



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2504002				Courier : FGaldun				1 of 2 COCs																	
Client ID : GFEL01				Project ID : 10-Elbridge St.				Sampler Name(s) : Frank Galdun				Analysis		Matrix															
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 777 Chestnut Ridge Rd Chestnut Ridge, NY																									
				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY																					
				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	Indoor/Ambient Air	Soil Gas												
SV1	4/8/25	8:22	10:22	5	5	67	67	-30	-5.5	10707	10401	6 L	50	VL042218.D	1		1												
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> GC/MS Analyst Signature (TO-15)											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE COMPOUNDS IN THE ATTACHED LIST Please follow the instructions on the back of this COC.							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop											
	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: [Signature]				Date/Time: 04/07/25				Canisters Received by: [Signature]				Date/Time: 4-8-25 1540																	
Samples Relinquished by: [Signature]				Date/Time: 4/8/25				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2504002				Courier : F. GALDUN				<u>2</u> of <u>2</u> COCs																	
Client ID : GFEL01				Project ID : 10 Eldridge St.				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix															
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 777 CHESTNUT RIDGE, Rte. 28 CHESTNUT RIDGE, NY																									
				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY																					
				Standard : ~~10 business days~~ OR				EDD Type : PDF																					
Rush (Specify): <u>5</u> 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	Indoor/Ambient Air	Soil Gas												
IA1	4/8/25	8:47	10:17	30	4	67	67	-30	-6.3	10502	10258	6 L	50	VL042217.D	1	1													
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
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	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>																													
Sampling site (State):																													
Quick Connector required : <u>No</u>																													
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>4/8/25</u>				Canisters Received by: <u>AF</u>				Date/Time: <u>4-8-25 1840</u>																	
Samples Relinquished by: <u>Sam</u>				Date/Time: <u>4/8/25</u>				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

REQUESTED ANALYTE LIST

PCE

TCE

cis-1,2-DCE

1,1-DCE

1,1,1-TCA

VINYL CHLORIDE

BENZENE

TOLUENE

ETHYL BENZENE

O-XYLENE

M/P-XYLENE

HEPTANE

HEXANE

CYCLOHEXANE

NAPHTHALENE

2,2,4-TRIMETHYLPENTANE

1,2,4-TRIMETHYLBENZENE

1,3,5-TRIMETHYLBENZENE

Laboratory Certification

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

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
~~DATE~~		Title: <u>Sample Custodian</u>	
Field Sample Seal No.: <u>Q1757</u>		Date Broken <u>4/9/2025</u> Military Time Seal Broken: <u>15:40:00</u>	
Case No.: <u>777 Chestnut Ridge RD, CI</u>		Analytical Parameter/Fraction <u>WOCMS Group2</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1757-01	SV1		
Q1757-02	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
4/9	1135	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	
		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:	Q1757	OrderDate:	4/9/2025 10:25:42 AM
Client:	GFE LLC	Project:	777 Chestnut Ridge RD, Chestnut Ridge NY
Contact:	Frank Galdun	Location:	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1757-01	SV1	Air	VOCMS Group2	TO-15	04/08/25		04/10/25	04/08/25
Q1757-02	IA1	Air	VOCMS Group2	TO-15	04/08/25		04/09/25	04/08/25

Hit Summary Sheet
SW-846

SDG No.: Q1757

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q1757-01	SV1	Air	Heptane	5.74	J	1.80	8.20	ug/m3
Q1757-01	SV1	Air	Benzene	2.52	J	1.12	6.39	ug/m3
Q1757-01	SV1	Air	Toluene	12.4		1.66	7.54	ug/m3
Q1757-01	SV1	Air	Tetrachloroethene	4.61		0.41	0.81	ug/m3
Q1757-01	SV1	Air	m/p-Xylene	4.78	J	3.65	17.4	ug/m3
Q1757-01	SV1	Air	o-Xylene	2.39	J	2.08	8.69	ug/m3
Q1757-01	SV1	Air	1,2,4-Trimethylbenzene	4.92	J	1.52	9.83	ug/m3
Q1757-01	SV1	Air	Hexane	208		1.55	7.05	ug/m3
			Total Voc :		245			
			Total Concentration:		245			
Client ID:	IA1							
Q1757-02	IA1	Air	Toluene	1.32	J	0.41	1.88	ug/m3
Q1757-02	IA1	Air	Hexane	0.46	J	0.39	1.76	ug/m3
			Total Voc :		1.78			
			Total Concentration:		1.78			



QC SUMMARY

Surrogate Summary

SDG No.: Q1757

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1665-01DUP	AA-DUP-1-3242025DUP	1-Bromo-4-Fluorobenzene	10	9.35	93	65	135
Q1757-01	SV1	1-Bromo-4-Fluorobenzene	10	9.71	97	65	135
Q1757-02	IA1	1-Bromo-4-Fluorobenzene	10	9.58	96	65	135
VL0409ABL01	VL0409ABL01	1-Bromo-4-Fluorobenzene	10	9.13	91	65	135
VL0409ABS02	VL0409ABS02	1-Bromo-4-Fluorobenzene	10	9.52	95	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1757

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL042289.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0409ABS02	Vinyl Chloride	10	8.70	ppbv	87			70	130	
	Heptane	10	9.70	ppbv	97			70	130	
	1,1-Dichloroethene	10	8.90	ppbv	89			70	130	
	Cyclohexane	10	9.40	ppbv	94			70	130	
	cis-1,2-Dichloroethene	10	9.70	ppbv	97			70	130	
	1,1,1-Trichloroethane	10	8.90	ppbv	89			70	130	
	2,2,4-Trimethylpentane	10	10.7	ppbv	107			70	130	
	Benzene	10	10.6	ppbv	106			70	130	
	Trichloroethene	10	10.1	ppbv	101			70	130	
	Toluene	10	9.90	ppbv	99			70	130	
	Tetrachloroethene	10	8.90	ppbv	89			70	130	
	Ethyl Benzene	10	10.6	ppbv	106			70	130	
	m/p-Xylene	20	22.2	ppbv	111			70	130	
	o-Xylene	10	11.0	ppbv	110			70	130	
	1,3,5-Trimethylbenzene	10	10.9	ppbv	109			70	130	
	1,2,4-Trimethylbenzene	10	10.7	ppbv	107			70	130	
	Naphthalene	10	11.3	ppbv	113			70	130	
	Hexane	10	9.90	ppbv	99			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1665-01DUP	Q1665-01
Client Id :	AA-DUP-1-3242025DUP	AA-DUP-1-3242025
DF :	1	1
Datafile :	VL042291.D	VL042290.D
Anal Date & Time :	04/09/2025 14:02	04/09/2025 13:25

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,3,5-Trimethylbenzene	0	0	0
2,2,4-Trimethylpentane	0	0	0
Benzene	0.24	0.25	4.1
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0.1	0.11	9.5
Hexane	1.4	1.6	13.3
m/p-Xylene	0.12	0	200 *
Naphthalene	0	0	0
o-Xylene	0	0	0
Tetrachloroethene	0	0	0
Toluene	0.28	0.32	13.3
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

AA-DUP-1-3242025DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1757

SAS No.: Q1757 SDG NO.: Q1757

Lab File ID: VL042291.D

Lab Sample ID: Q1665-01DUP

Date Analyzed: 04/09/2025

Time Analyzed: 14:02

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
AA-DUP-1-3242025DUP	Q1665-01DUP	VL042291.D	04/09/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0409ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1757

SAS No.: Q1757 SDG NO.: Q1757

Lab File ID: VL042287.D

Lab Sample ID: VL0409ABL01

Date Analyzed: 04/09/2025

Time Analyzed: 11:03

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
VL0409ABS02	VL0409ABS02	VL042289.D	04/09/2025
IA1	Q1757-02	VL042297.D	04/09/2025
SV1	Q1757-01	VL042298.D	04/10/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1757 SAS No.: Q1757 SDG NO.: Q1757
Lab File ID: VL042171.D BFB Injection Date: 03/27/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:44
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23
75	30.0 - 66.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.8
175	4.0 - 9.0% of mass 174	5.1 (8) 1
176	93.0 - 101.0% of mass 174	61.1 (95.7) 1
177	5.0 - 9.0% of mass 176	4.2 (6.8) 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	VL042172.D	03/27/2025	08:26
VSTDICCC002	VSTDICCC002	VL042173.D	03/27/2025	08:59
VSTDICCC001	VSTDICCC001	VL042174.D	03/27/2025	09:30
VSTDICCC0.5	VSTDICCC0.5	VL042175.D	03/27/2025	10:01
VSTDICCC0.1	VSTDICCC0.1	VL042176.D	03/27/2025	10:32
VSTDICCC0.03	VSTDICCC0.03	VL042177.D	03/27/2025	11:03
VSTDICCC015	VSTDICCC015	VL042178.D	03/27/2025	11:36

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1757 SAS No.: Q1757 SDG NO.: Q1757
Lab File ID: VL042285.D BFB Injection Date: 04/09/2025
Instrument ID: MSVOA_L BFB Injection Time: 09:38
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.2
75	30.0 - 66.0% of mass 95	57.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	61.3
175	4.0 - 9.0% of mass 174	4.2 (6.9) 1
176	93.0 - 101.0% of mass 174	57.5 (93.9) 1
177	5.0 - 9.0% of mass 176	3.7 (6.4) 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	VL042286.D	04/09/2025	10:20
VL0409ABL01	VL0409ABL01	VL042287.D	04/09/2025	11:03
VL0409ABS02	VL0409ABS02	VL042289.D	04/09/2025	12:31
AA-DUP-1-3242025DUP	Q1665-01DUP	VL042291.D	04/09/2025	14:02
IA1	Q1757-02	VL042297.D	04/09/2025	17:31
SV1	Q1757-01	VL042298.D	04/10/2025	07:54

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1757 SAS No.: Q1757 SDG NO.: Q1757
 Lab File ID: VL042286.D Date Analyzed: 04/09/2025
 Instrument ID: MSVOA_L Time Analyzed: 10:20
 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	155631	2.78	397176	3.96	350140	8.88
UPPER LIMIT	217883	3.11	556046	4.29	490196	9.21
LOWER LIMIT	93378.6	2.45	238306	3.63	210084	8.55
EPA SAMPLE NO.						
AA-DUP-1-3242025DUP	156655	2.78	397453	3.95	332015	8.88
SV1	179364	2.78	415879	3.95	390183	8.88
IA1	158267	2.78	382470	3.96	324963	8.88
VL0409ABL01	156784	2.78	391570	3.96	334054	8.88
VL0409ABS02	160536	2.78	421845	3.95	368487	8.88

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1757 SAS No.: Q1757 SDG NO.: Q1757
 Lab File ID: VL042286.D Date Analyzed: 04/09/2025
 Instrument ID: MSVOA_L Time Analyzed: 10:20
 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.						
AA-DUP-1-3242025DUP	0	0.00				
SV1	0	0.00				
IA1	0	0.00				
VL0409ABL01	0	0.00				
VL0409ABS02	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:	04/08/25
Project:	777 Chestnut Ridge RD, Chestnut Ridge NY	Date Received:	04/08/25
Client Sample ID:	SV1	SDG No.:	Q1757
Lab Sample ID:	Q1757-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042298.D	4		04/10/25 07:54	VL040925

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
142-82-5	Heptane	1.40	5.74	J	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	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
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.79	2.52	J	1.12	6.39	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
108-88-3	Toluene	3.30	12.4		1.66	7.54	ug/m3
127-18-4	Tetrachloroethene	0.68	4.61		0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	1.10	4.78	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.55	2.39	J	2.08	8.69	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.00	4.92	J	1.52	9.83	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
110-54-3	Hexane	58.9	208		1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.70			65 - 135	97%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	179000			2.784		
540-36-3	1,4-Difluorobenzene	416000			3.952		
3114-55-4	Chlorobenzene-d5	390000			8.875		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042298.D
 Acq On : 10 Apr 2025 07:54
 Operator : SY/MD
 Sample : Q1757-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2025
 Supervised By :Mahesh Dadoda 04/15/2025

Quant Time: Apr 10 08:19:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	179364	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	415879	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	390183	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	311260	9.714	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.100%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.473	51	25069m	0.927	ppbv	
9) Propene	1.483	41	40937	3.358	ppbv	89
10) Heptane	4.972	43	11908m	0.361	ppbv	
11) Trichlorofluoromethane	1.874	101	4644	0.180	ppbv	86
13) Ethanol	1.719	45	10466m	10.964	ppbv	
15) Acetone	1.832	43	612816	24.430	ppbv	97
17) tert-Butyl alcohol	2.040	59	8659	0.277	ppbv #	88
19) Isopropyl Alcohol	1.884	45	25763	1.820	ppbv #	1
20) Methylene Chloride	2.059	84	2267	0.243	ppbv #	86
23) Vinyl Acetate	2.460	43	194799	18.684	ppbv	99
26) Hexane	2.823	57	370399	14.729	ppbv #	29
27) Carbon Disulfide	2.146	76	5418	0.201	ppbv #	51
28) Methyl tert-Butyl Ether	2.438	73	4393	0.281	ppbv #	49
29) Chloroform	2.845	83	23005	0.625	ppbv	93
34) 2-Butanone	2.557	43	21284	0.706	ppbv	98
35) Carbon Tetrachloride	3.755	117	44188	1.381	ppbv #	91
36) Benzene	3.651	78	8155	0.198	ppbv	93
51) 2-Hexanone	7.438	43	12828	0.323	ppbv #	79
52) Tetrachloroethene	8.218	164	2768m	0.169	ppbv	
53) Toluene	6.927	91	40569	0.830	ppbv	98
59) m/p-Xylene	9.526	91	14715m	0.266	ppbv	
60) o-Xylene	9.960	91	7654	0.138	ppbv	98
74) 1,2,4-Trimethylbenzene	11.533	105	18114	0.261	ppbv #	60

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

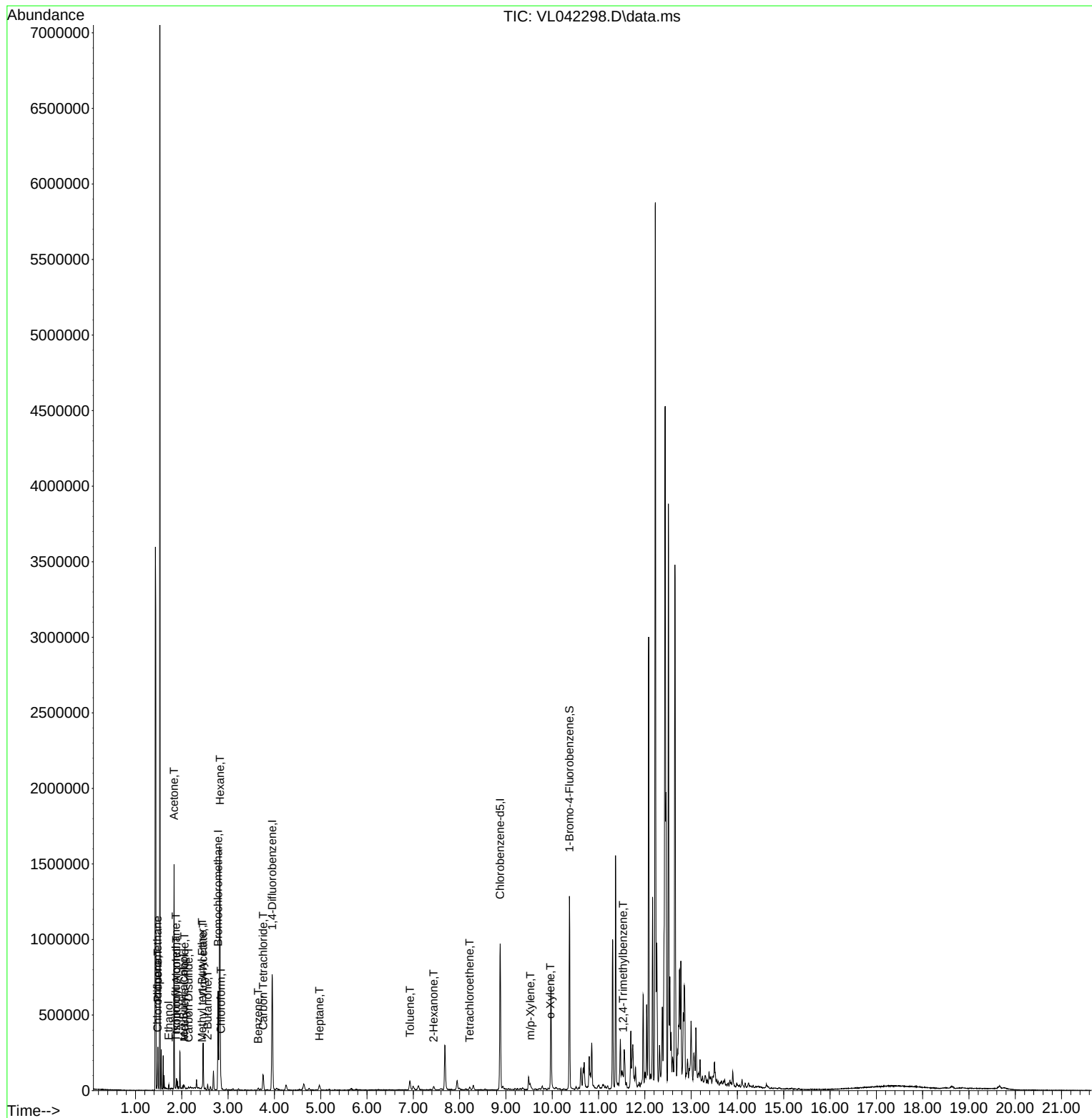
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Data File : VL042298.D
Acq On : 10 Apr 2025 07:54
Operator : SY/MD
Sample : Q1757-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

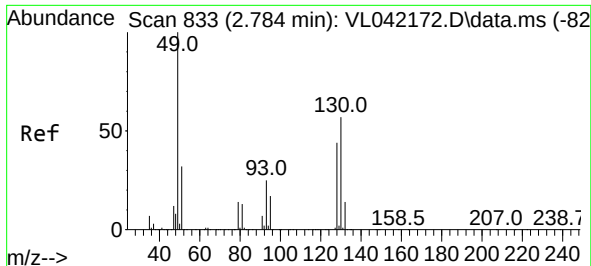
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Apr 10 08:19:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

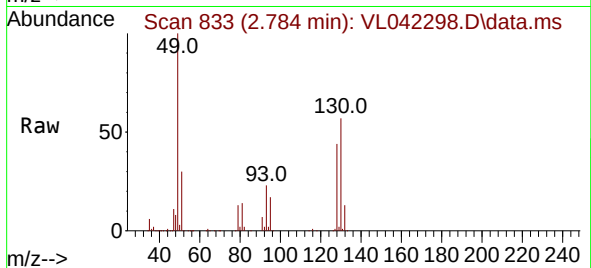
Reviewed By : Semsettin Yesilyurt 04/15/2025
Supervised By : Mahesh Dadoda 04/15/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

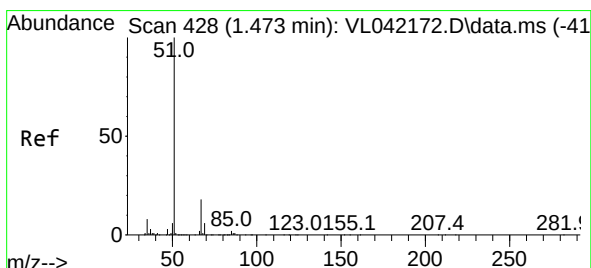
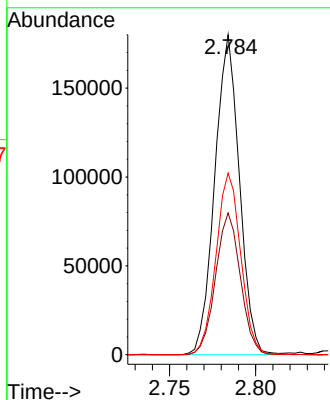
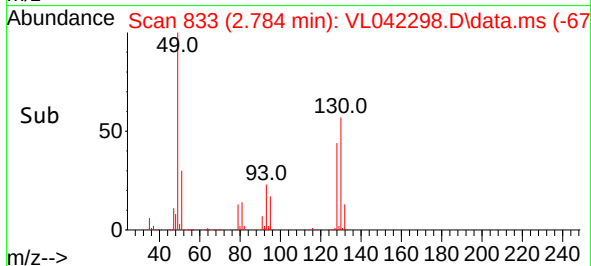
Instrument :
MSVOA_L
ClientSampleId :
SV1



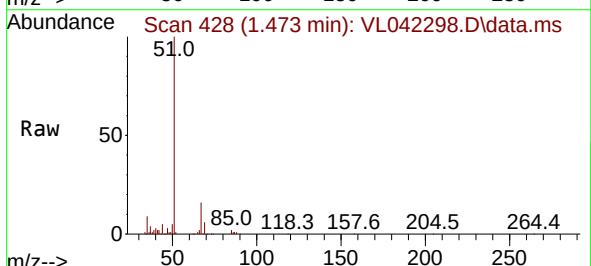
Tgt Ion: 49 Resp: 179364
Ion Ratio Lower Upper
49 100
128 44.5 22.9 68.5
130 57.0 28.8 86.4

Manual Integrations
APPROVED

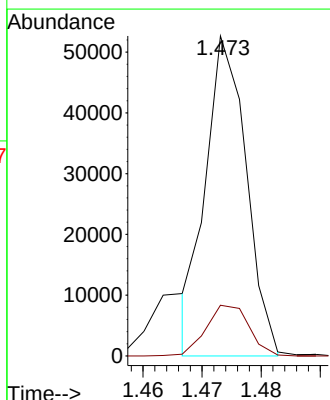
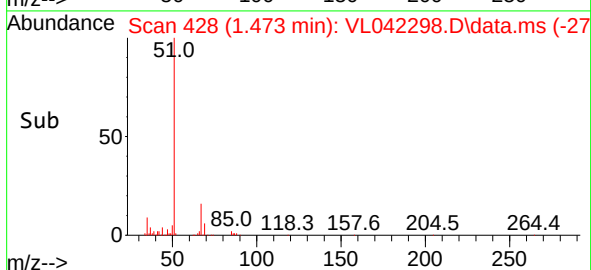
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025

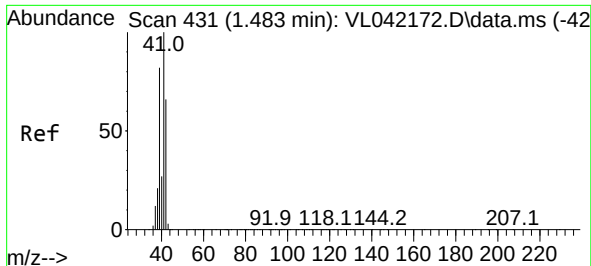


#3
Chlorodifluoromethane
Concen: 0.927 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54



Tgt Ion: 51 Resp: 25069
Ion Ratio Lower Upper
51 100
67 17.2 15.0 22.6





#9

Propene

Concen: 3.358 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 41 Resp: 4093

Ion Ratio Lower Upper

41 100

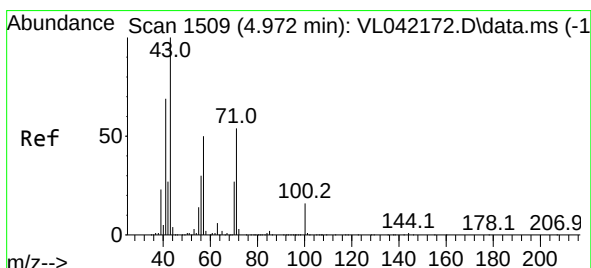
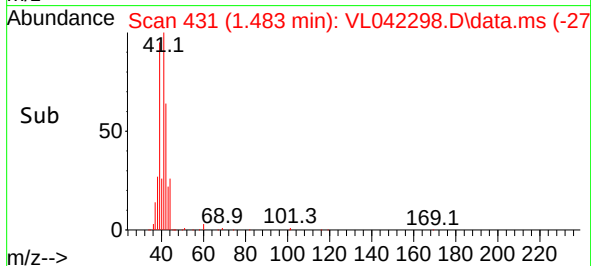
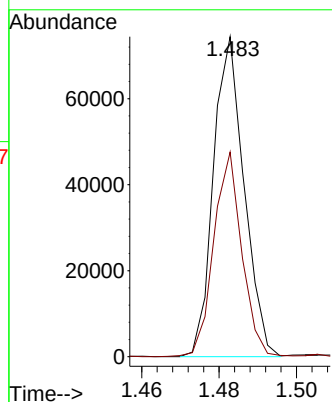
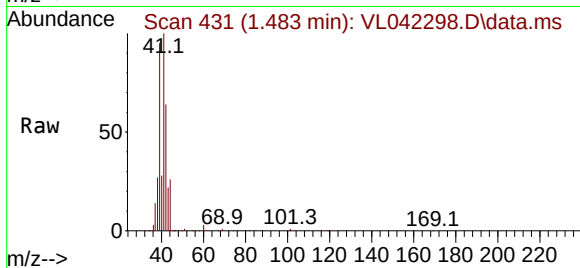
42 59.0 54.2 81.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2025

Supervised By :Mahesh Dadoda 04/15/2025



#10

Heptane

Concen: 0.361 ppbv m

RT: 4.972 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VL042298.D

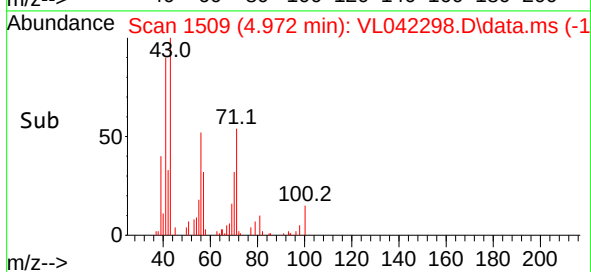
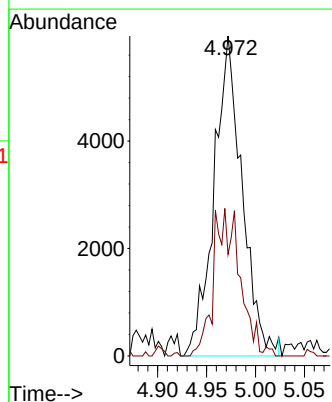
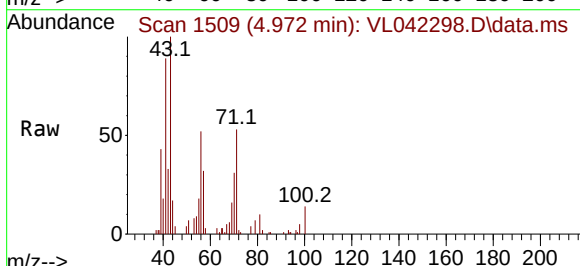
Acq: 10 Apr 2025 07:54

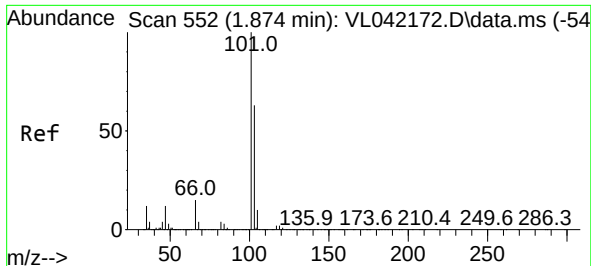
Tgt Ion: 43 Resp: 11908

Ion Ratio Lower Upper

43 100

57 43.2 39.4 59.2





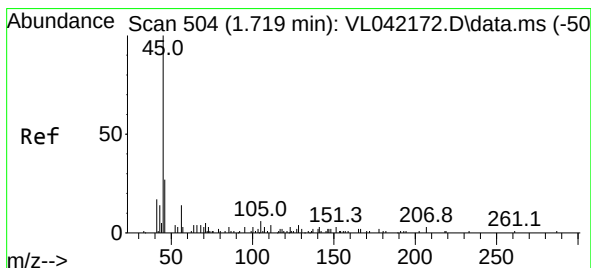
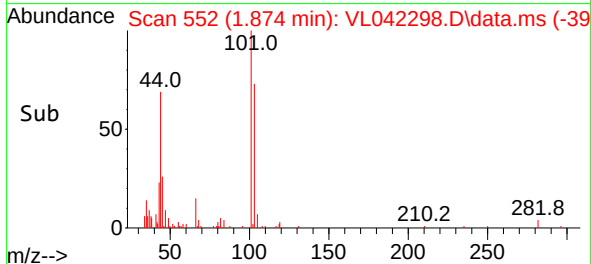
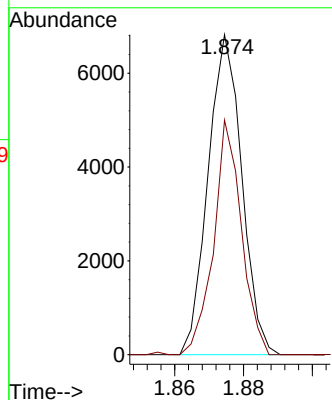
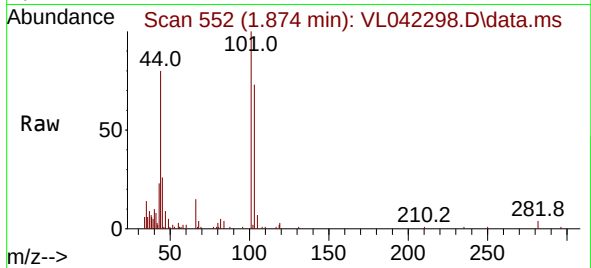
#11
Trichlorofluoromethane
Concen: 0.180 ppbv
RT: 1.874 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:101 Resp: 4644
Ion Ratio Lower Upper
101 100
103 73.3 50.2 75.2

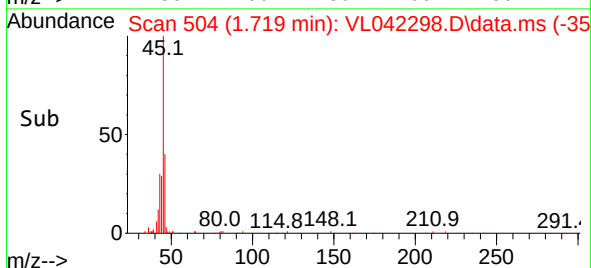
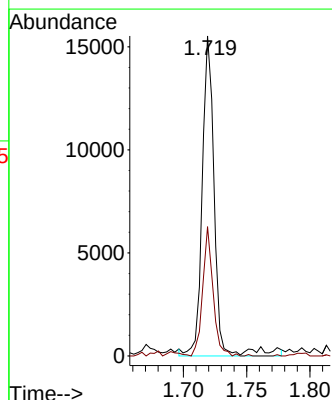
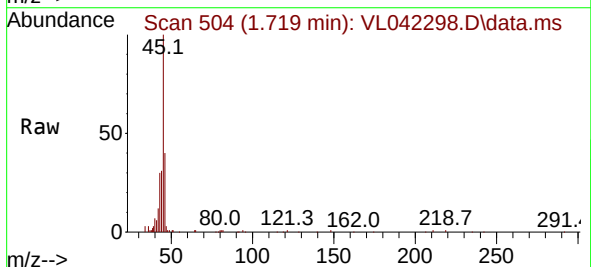
Manual Integrations
APPROVED

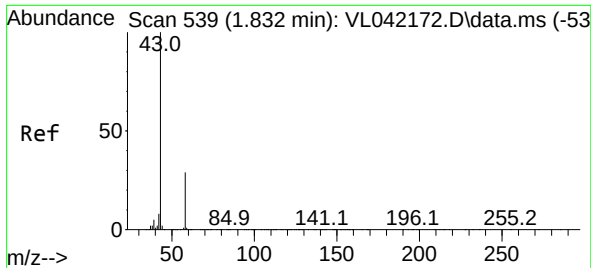
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#13
Ethanol
Concen: 10.964 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Tgt Ion: 45 Resp: 10466
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





#15

Acetone

Concen: 24.430 ppbv

RT: 1.832 min Scan# 51

Delta R.T. 0.000 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 43 Resp: 612810

Ion Ratio Lower Upper

43 100

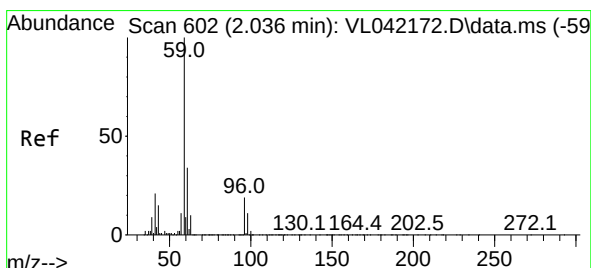
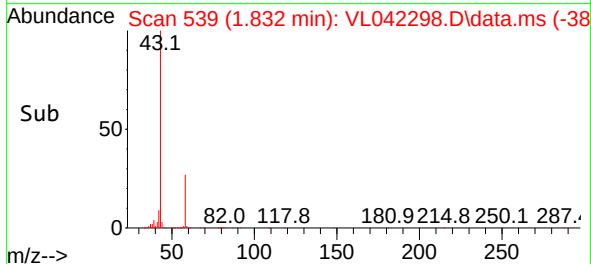
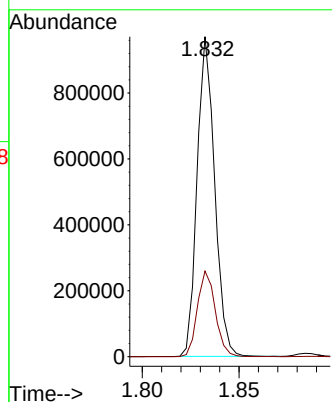
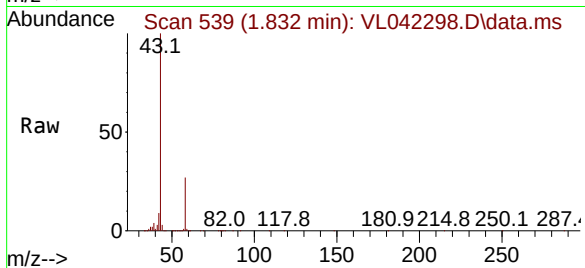
58 27.4 23.2 34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2025

Supervised By :Mahesh Dadoda 04/15/2025



#17

tert-Butyl alcohol

Concen: 0.277 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042298.D

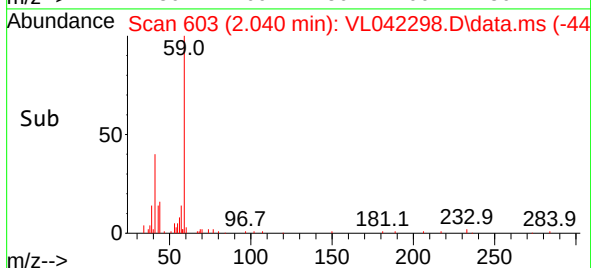
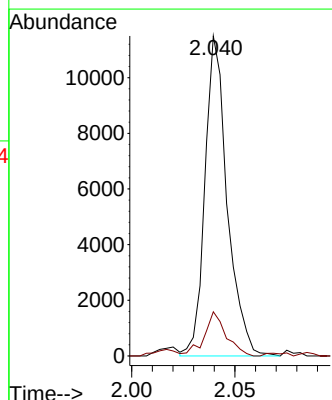
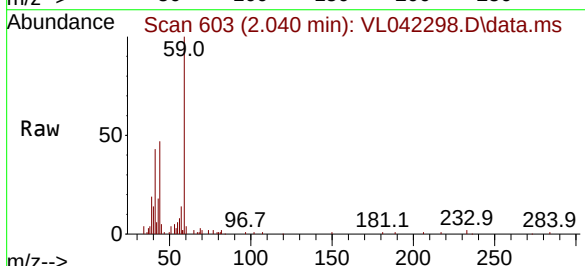
Acq: 10 Apr 2025 07:54

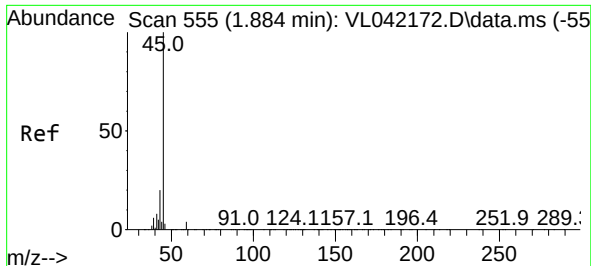
Tgt Ion: 59 Resp: 8659

Ion Ratio Lower Upper

59 100

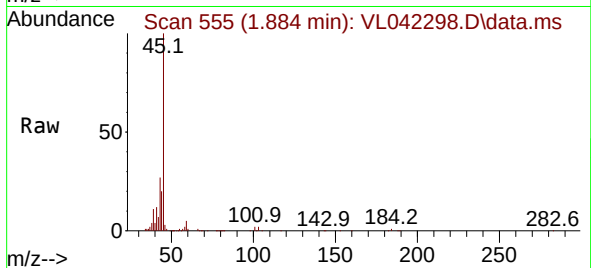
57 17.0 9.8 14.8





#19
Isopropyl Alcohol
Concen: 1.820 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

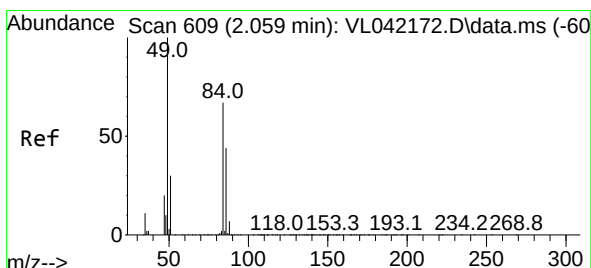
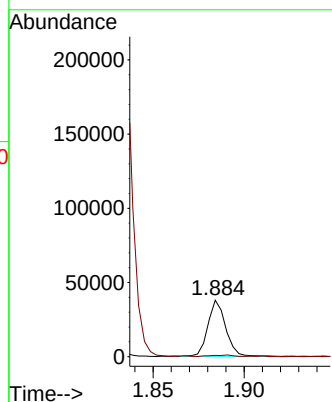
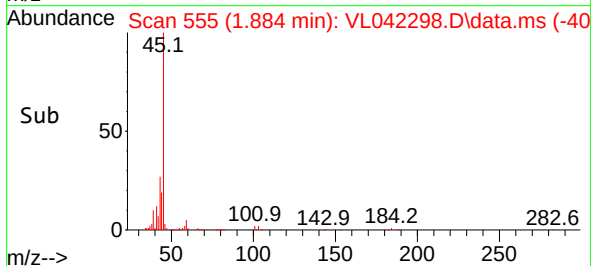
Instrument :
MSVOA_L
ClientSampleId :
SV1



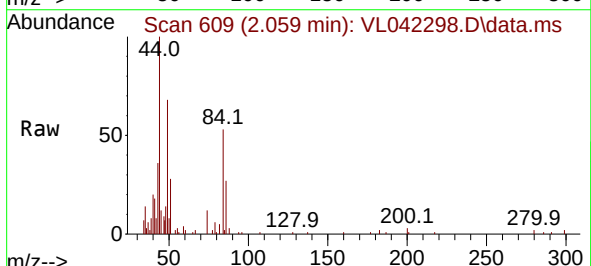
Tgt Ion: 45 Resp: 2576
Ion Ratio Lower Upper
45 100
58 651.8 36.9 55.3

Manual Integrations
APPROVED

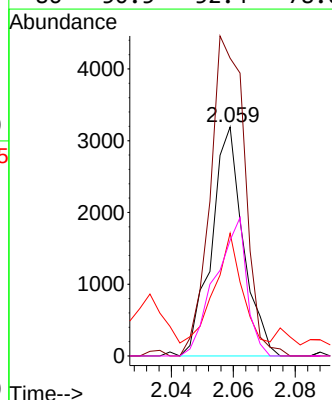
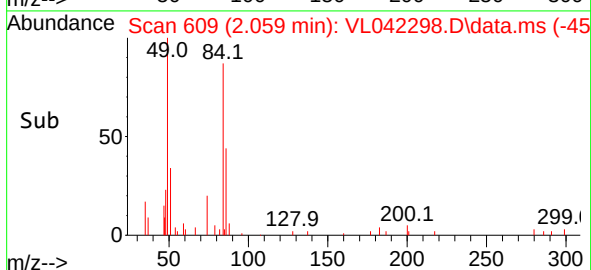
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025

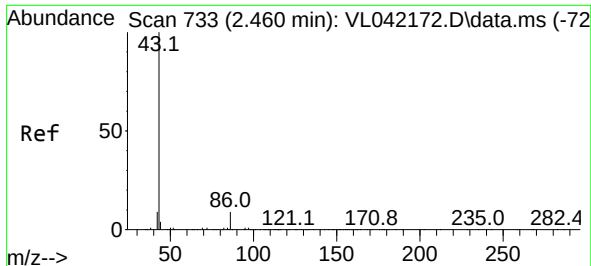


#20
Methylene Chloride
Concen: 0.243 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54



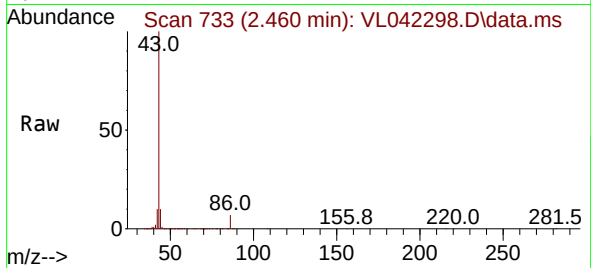
Tgt Ion: 84 Resp: 2267
Ion Ratio Lower Upper
84 100
49 130.1 120.2 180.4
51 47.9 37.4 56.0
86 50.5 52.4 78.6





#23
 Vinyl Acetate
 Concen: 18.684 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. 0.000 min
 Lab File: VL042298.D
 Acq: 10 Apr 2025 07:54

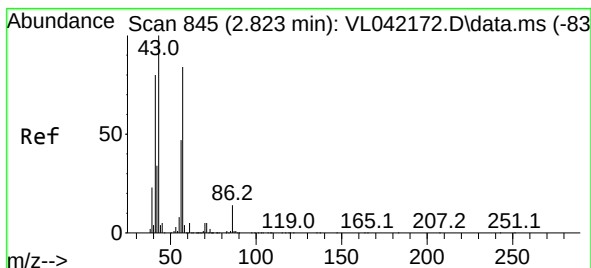
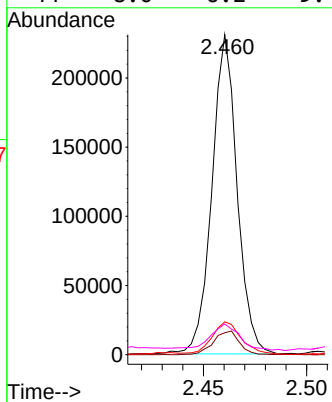
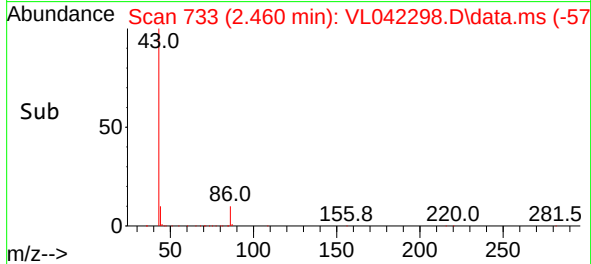
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 43 Resp: 194799
 Ion Ratio Lower Upper
 43 100
 86 6.9 5.5 8.3
 42 10.1 8.6 13.0
 44 8.0 6.2 9.4

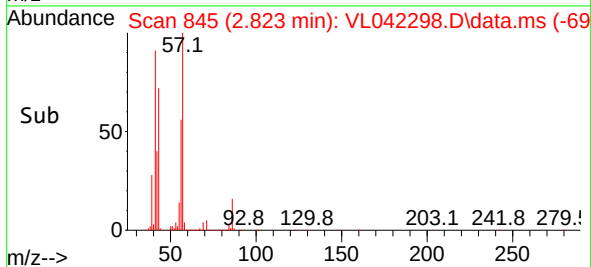
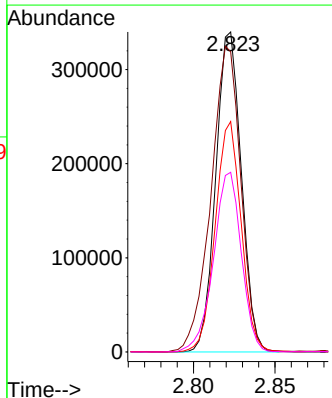
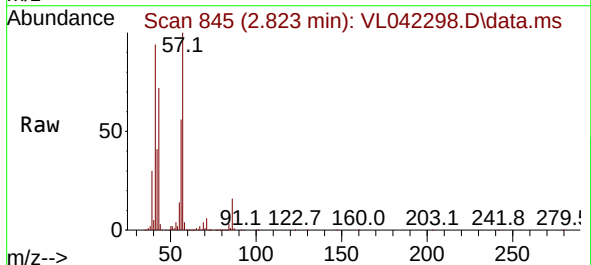
Manual Integrations
 APPROVED

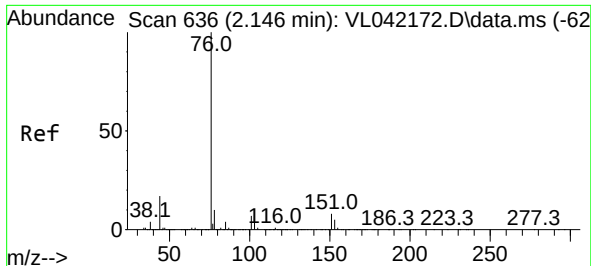
Reviewed By :Semsettin Yesilyurt 04/15/2025
 Supervised By :Mahesh Dadoda 04/15/2025



#26
 Hexane
 Concen: 14.729 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. 0.000 min
 Lab File: VL042298.D
 Acq: 10 Apr 2025 07:54

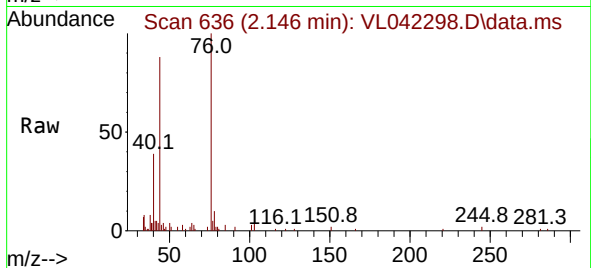
Tgt Ion: 57 Resp: 370399
 Ion Ratio Lower Upper
 57 100
 41 111.7 76.6 114.8
 43 73.1 207.8 311.8#
 56 61.3 43.6 65.4





#27
Carbon Disulfide
Concen: 0.201 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

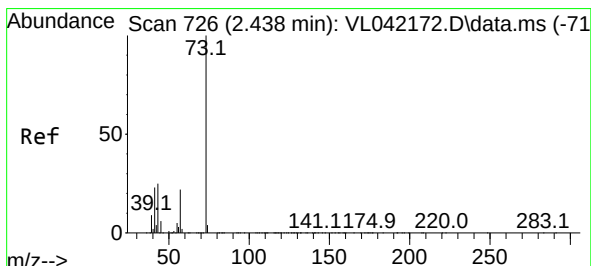
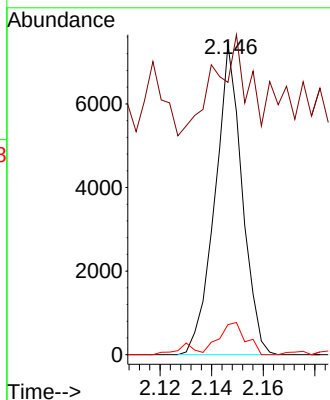
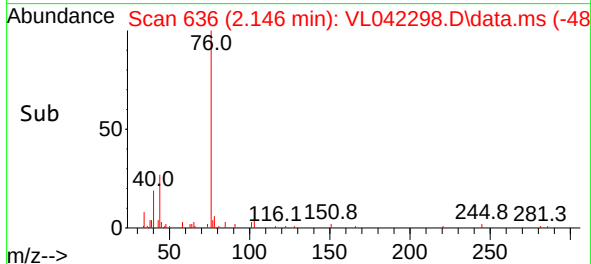
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 76 Resp: 5418
Ion Ratio Lower Upper
76 100
44 53.9 15.0 22.6
78 13.0 9.4 14.2

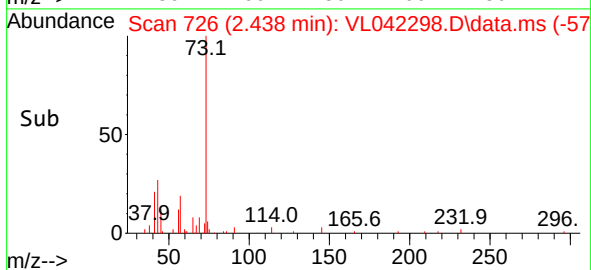
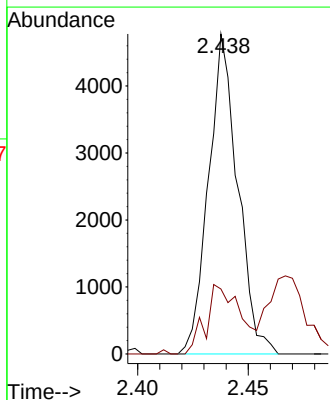
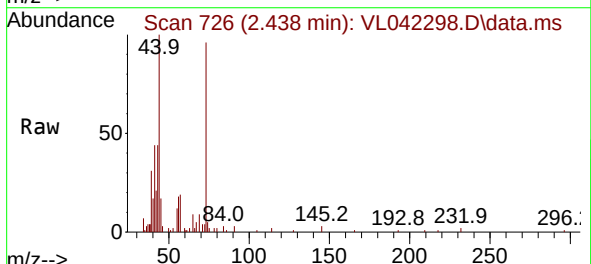
Manual Integrations
APPROVED

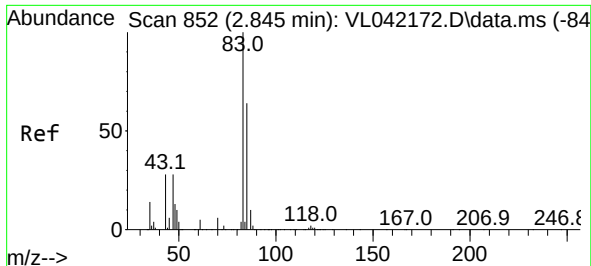
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#28
Methyl tert-Butyl Ether
Concen: 0.281 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Tgt Ion: 73 Resp: 4393
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#





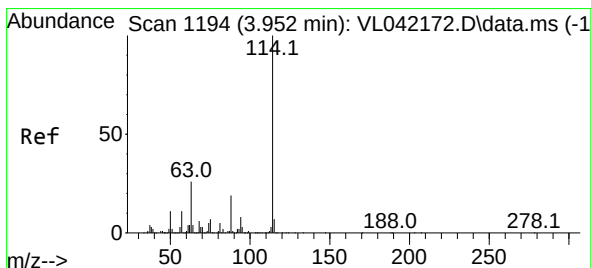
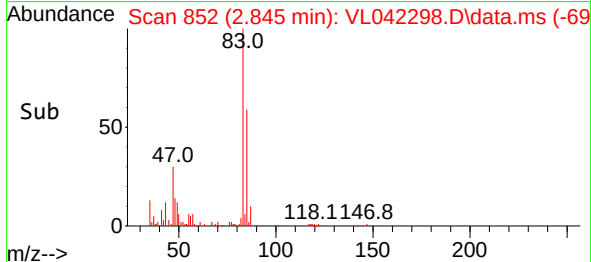
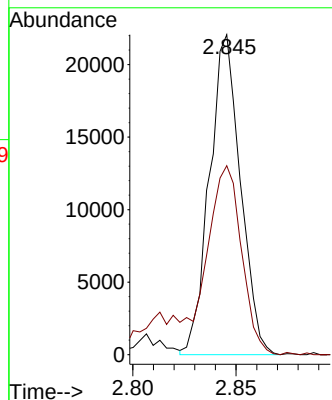
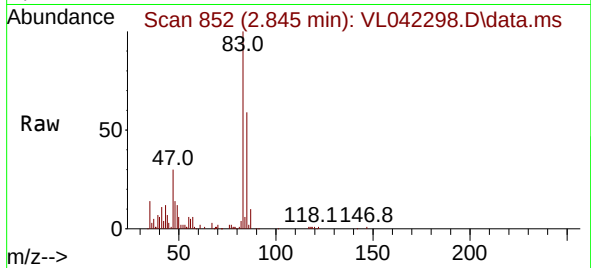
#29
Chloroform
Concen: 0.625 ppbv
RT: 2.845 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 83 Resp: 2300
Ion Ratio Lower Upper
83 100
85 59.1 51.4 77.2

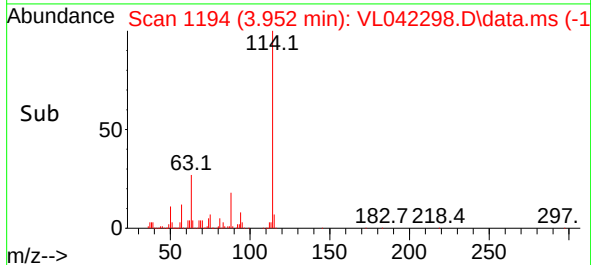
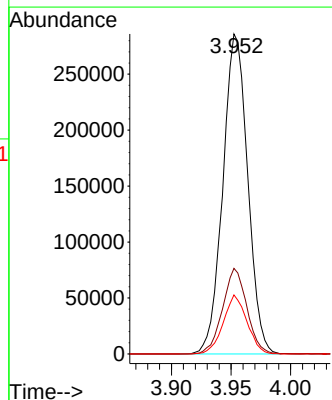
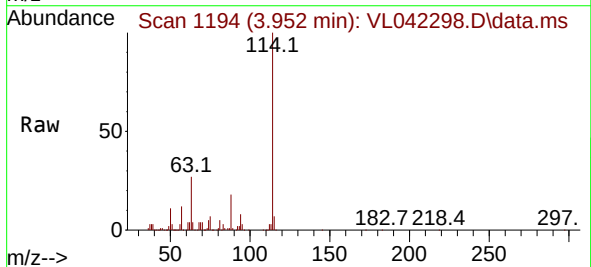
Manual Integrations
APPROVED

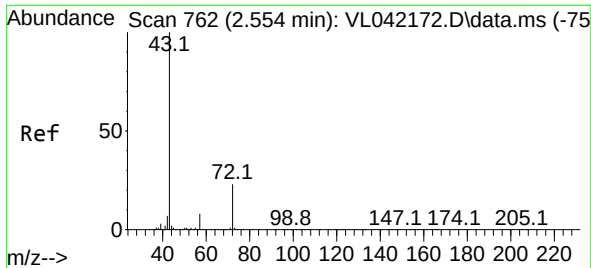
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

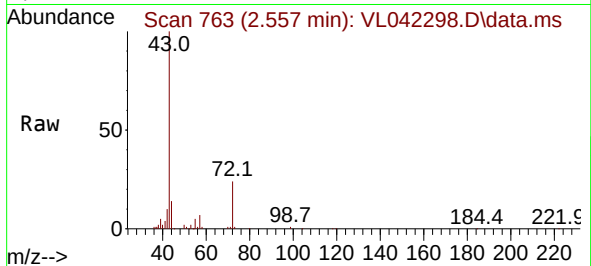
Tgt Ion:114 Resp: 415879
Ion Ratio Lower Upper
114 100
63 26.3 20.7 31.1
88 17.6 15.0 22.4





#34
2-Butanone
Concen: 0.706 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

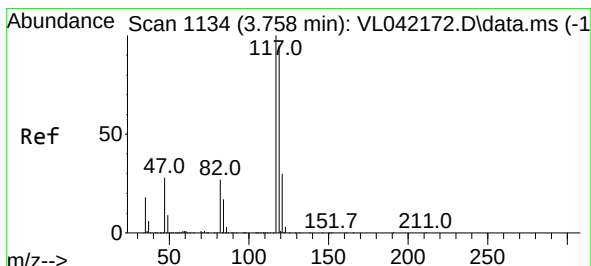
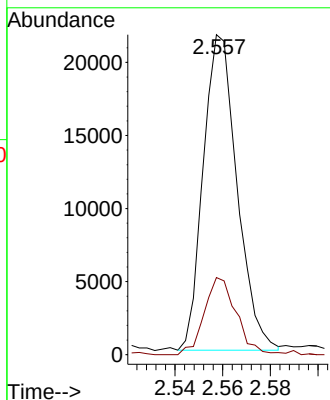
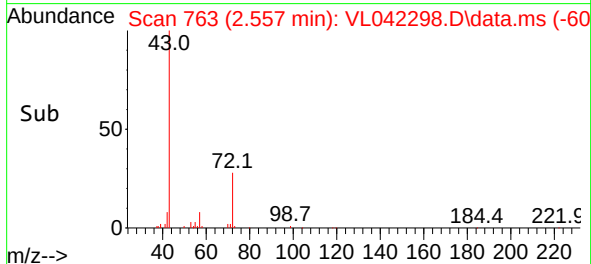
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 21284
Ion Ratio Lower Upper
43 100
72 23.6 18.2 27.2

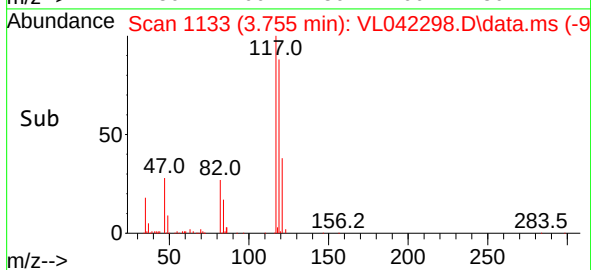
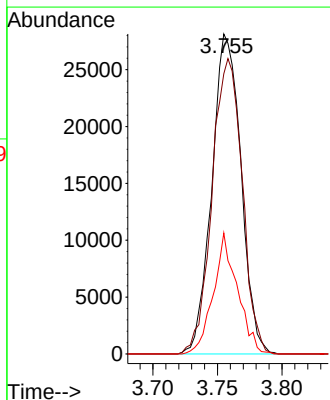
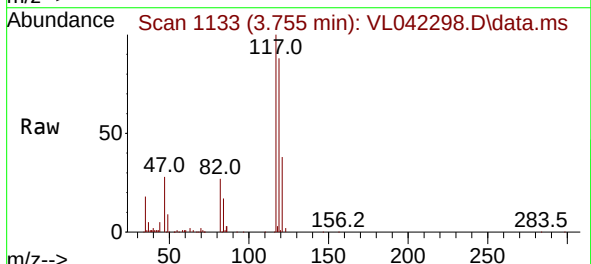
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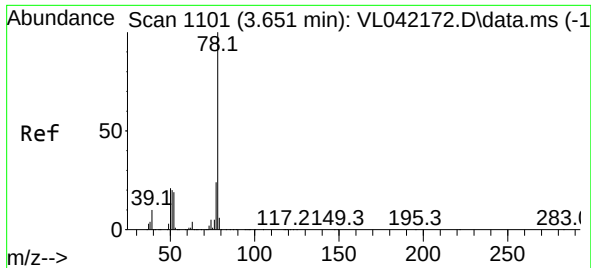
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#35
Carbon Tetrachloride
Concen: 1.381 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

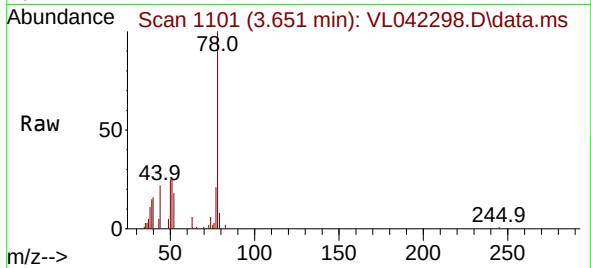
Tgt Ion:117 Resp: 44188
Ion Ratio Lower Upper
117 100
119 87.5 76.2 114.2
121 37.8 24.2 36.4#





#36
Benzene
Concen: 0.198 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

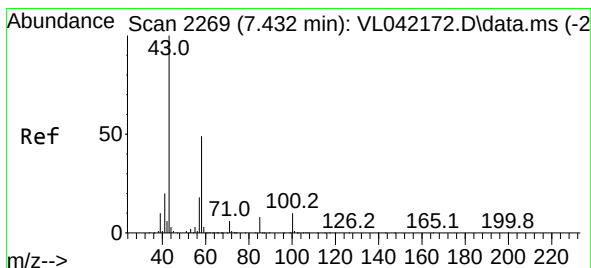
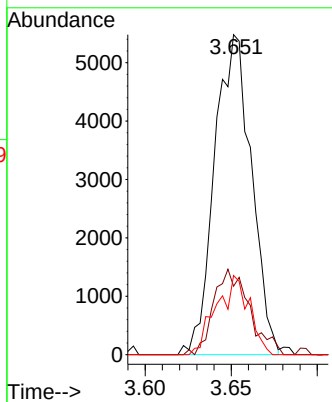
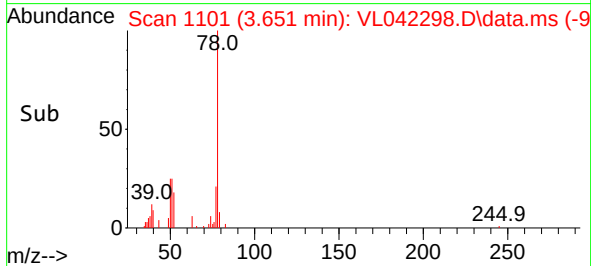
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 78 Resp: 815
Ion Ratio Lower Upper
78 100
77 21.4 19.1 28.7
50 24.7 16.6 24.8

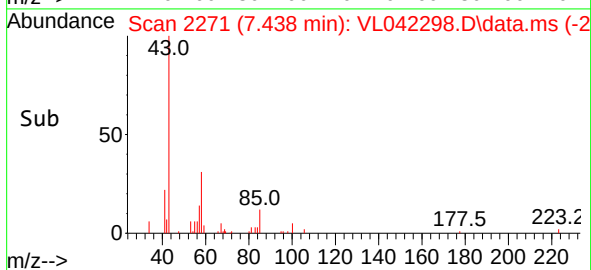
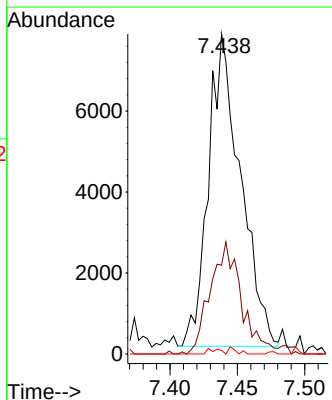
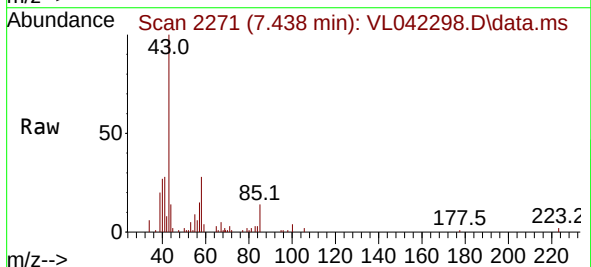
Manual Integrations
APPROVED

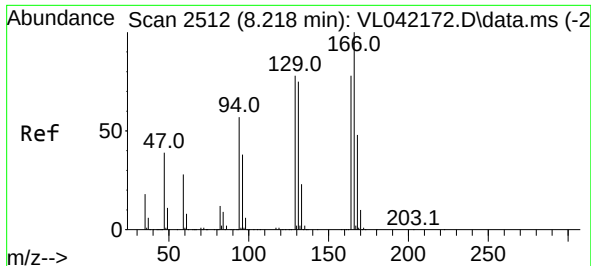
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#51
2-Hexanone
Concen: 0.323 ppbv
RT: 7.438 min Scan# 2271
Delta R.T. 0.006 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

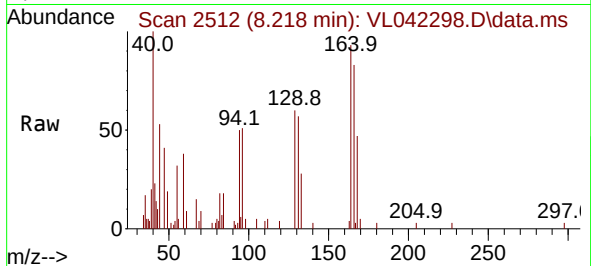
Tgt Ion: 43 Resp: 12828
Ion Ratio Lower Upper
43 100
58 35.4 39.6 59.4#
98 1.2 0.1 0.1#





#52
Tetrachloroethene
Concen: 0.169 ppbv m
RT: 8.218 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

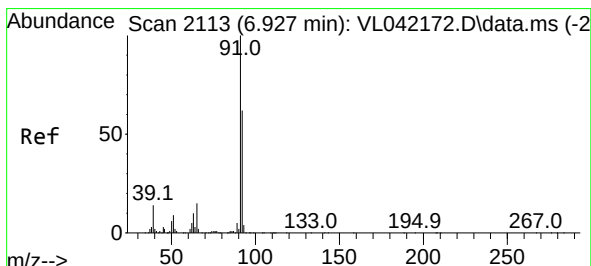
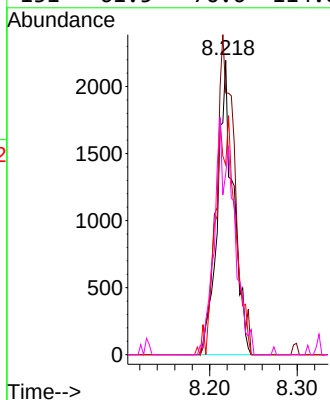
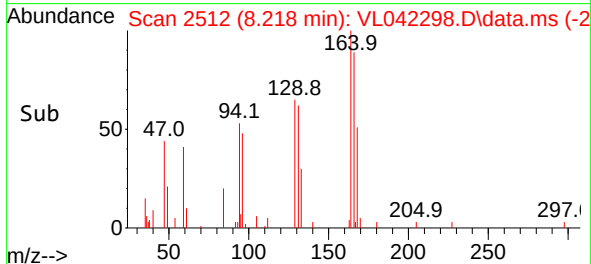
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 2768
Ion Ratio Lower Upper
164 100
166 88.9 102.5 153.7
129 64.5 79.8 119.8
131 61.5 76.6 114.8

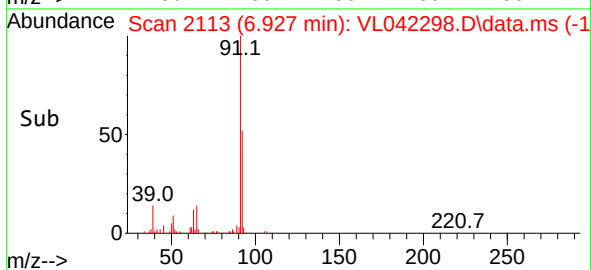
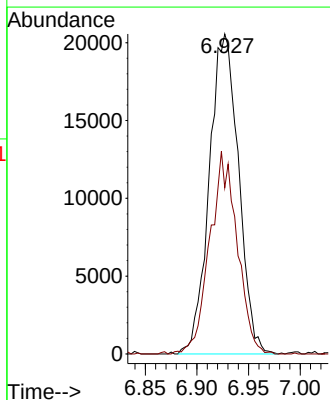
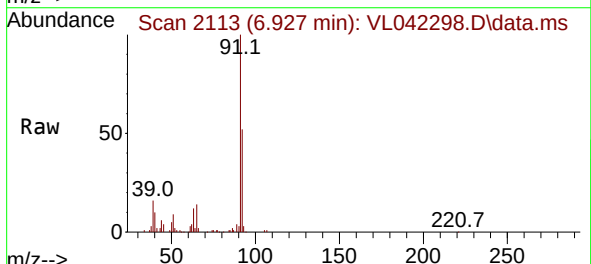
Manual Integrations
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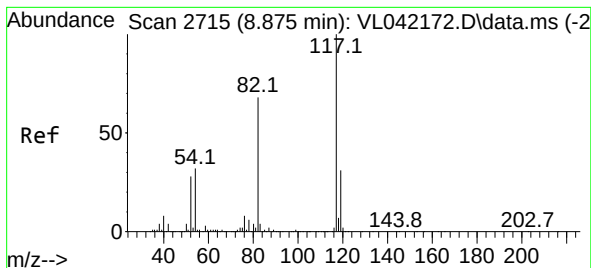
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#53
Toluene
Concen: 0.830 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Tgt Ion: 91 Resp: 40569
Ion Ratio Lower Upper
91 100
92 59.2 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

Instrument :

MSVOA_L

ClientSampleId :

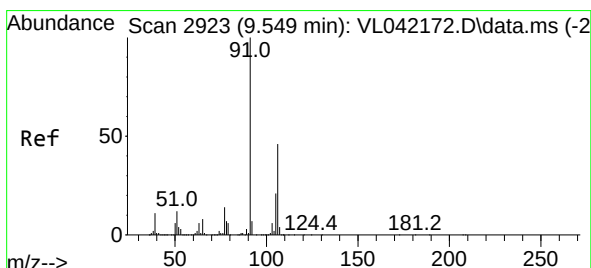
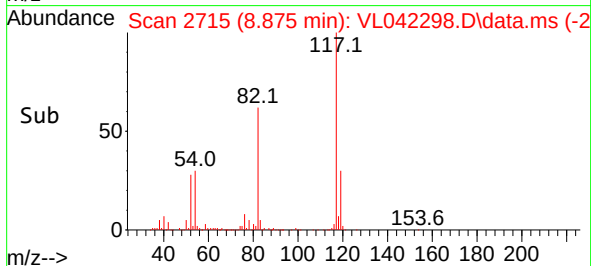
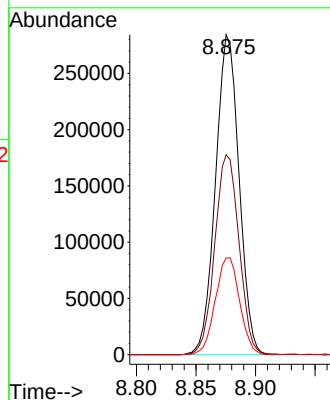
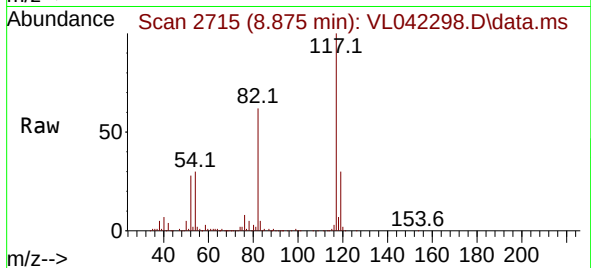
SV1

Tgt Ion:	117	Resp:	39018
Ion Ratio	Lower	Upper	
117	100		
82	64.3	55.8	83.6
119	31.5	25.5	38.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#59

m/p-Xylene

Concen: 0.266 ppbv m

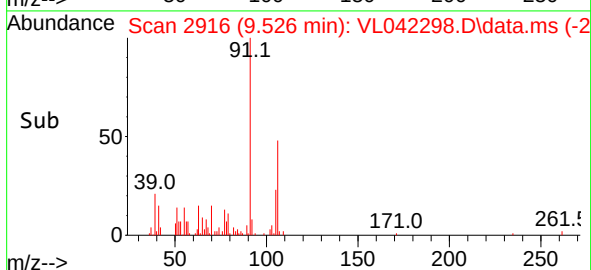
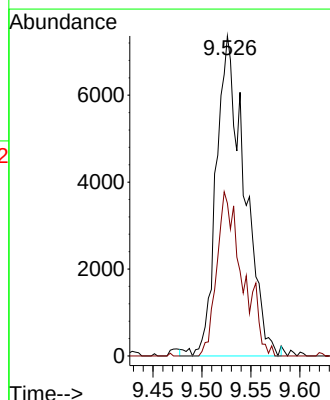
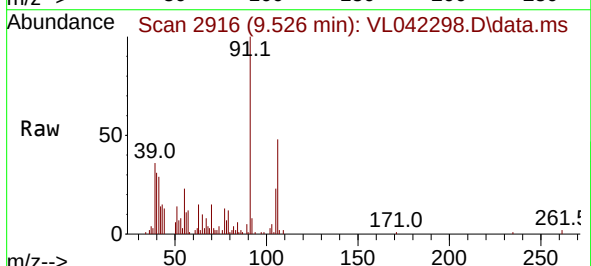
RT: 9.526 min Scan# 2916

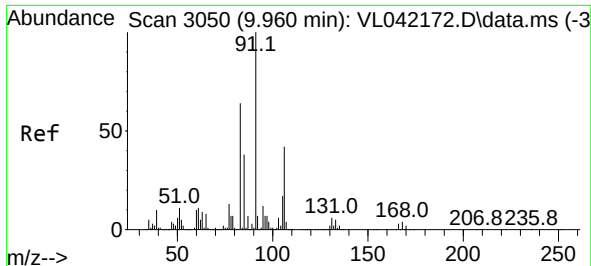
Delta R.T. -0.023 min

Lab File: VL042298.D

Acq: 10 Apr 2025 07:54

Tgt Ion:	91	Resp:	14715
Ion Ratio	Lower	Upper	
91	100		
106	0.0	0.0	0.0





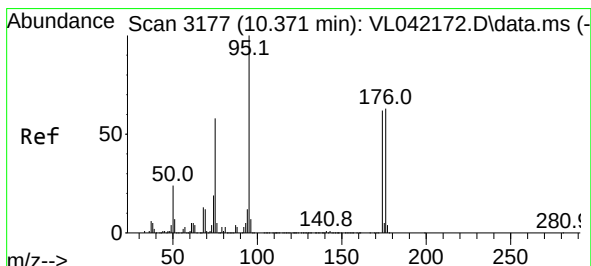
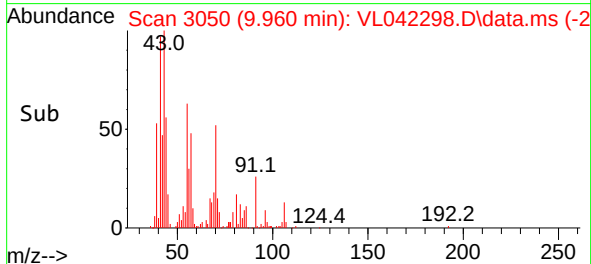
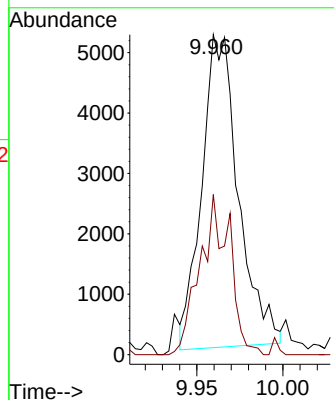
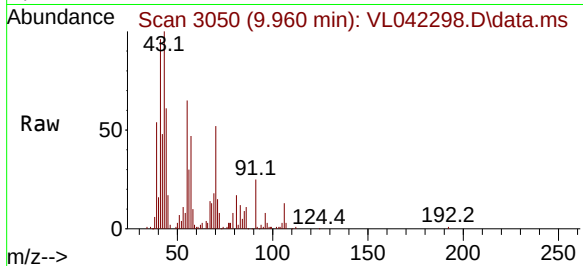
#60
o-Xylene
Concen: 0.138 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 7654
Ion Ratio Lower Upper
91 100
106 42.9 20.8 62.5

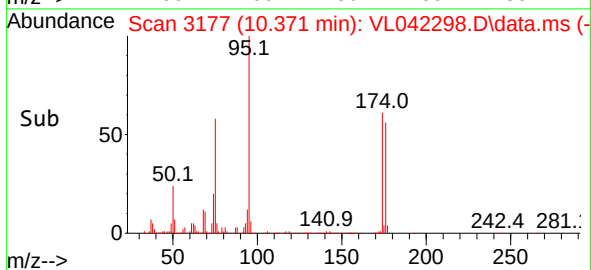
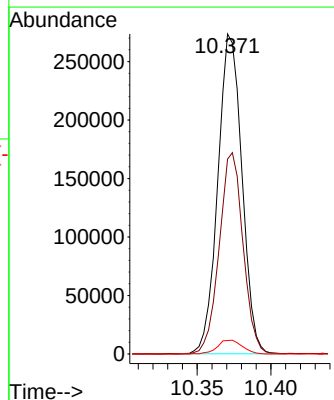
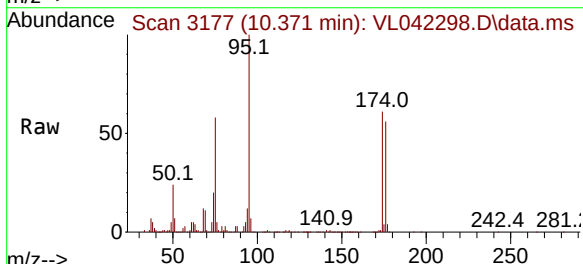
Manual Integrations
APPROVED

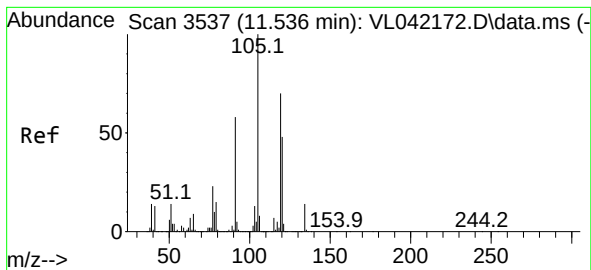
Reviewed By :Semsettin Yesilyurt 04/15/2025
Supervised By :Mahesh Dadoda 04/15/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.714 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.000 min
Lab File: VL042298.D
Acq: 10 Apr 2025 07:54

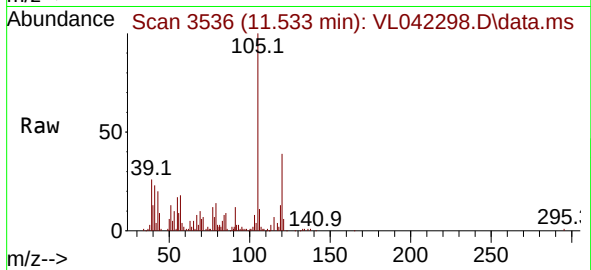
Tgt Ion: 95 Resp: 311260
Ion Ratio Lower Upper
95 100
174 62.3 50.7 76.1
175 4.4 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.261 ppbv
 RT: 11.533 min Scan# 3536
 Delta R.T. -0.003 min
 Lab File: VL042298.D
 Acq: 10 Apr 2025 07:54

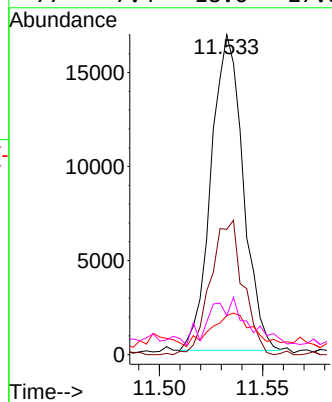
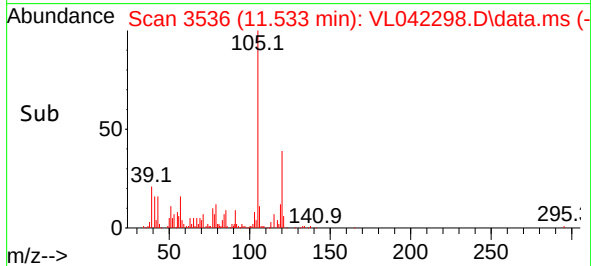
Instrument : MSVOA_L
 ClientSampleId : SV1



Tgt Ion:	105	Resp:	18114
Ion	Ratio	Lower	Upper
105	100		
120	39.3	38.6	58.0
91	8.6	46.2	69.2
77	7.4	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2025
 Supervised By :Mahesh Dadoda 04/15/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	04/08/25
Project:	777 Chestnut Ridge RD, Chestnut Ridge NY	Date Received:	04/08/25
Client Sample ID:	IA1	SDG No.:	Q1757
Lab Sample ID:	Q1757-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042297.D	1		04/09/25 17:31	VL040925

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
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	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
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.35	1.32	J	0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
110-54-3	Hexane	0.13	0.46	J	0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	158000			2.784		
540-36-3	1,4-Difluorobenzene	382000			3.955		
3114-55-4	Chlorobenzene-d5	325000			8.878		

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\VL040925\
 Data File : VL042297.D
 Acq On : 09 Apr 2025 17:31
 Operator : SY/MD
 Sample : Q1757-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:47:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	158267	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	382470	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	324963	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	255572	9.577	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
11) Trichlorofluoromethane	1.871	101	5197	0.229	ppbv	90
13) Ethanol	1.719	45	68354	66.083	ppbv	80
15) Acetone	1.835	43	93369	4.218	ppbv	92
17) tert-Butyl alcohol	2.043	59	17471m	0.634	ppbv	
19) Isopropyl Alcohol	1.884	45	394134	31.559	ppbv #	32
20) Methylene Chloride	2.059	84	12419	1.506	ppbv	90
26) Hexane	2.829	57	2900	0.131	ppbv #	59
34) 2-Butanone	2.557	43	13691	0.494	ppbv	94
35) Carbon Tetrachloride	3.758	117	2305m	0.077	ppbv	
41) Tetrahydrofuran	3.065	42	4148m	0.260	ppbv	
53) Toluene	6.927	91	15853	0.353	ppbv	97

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

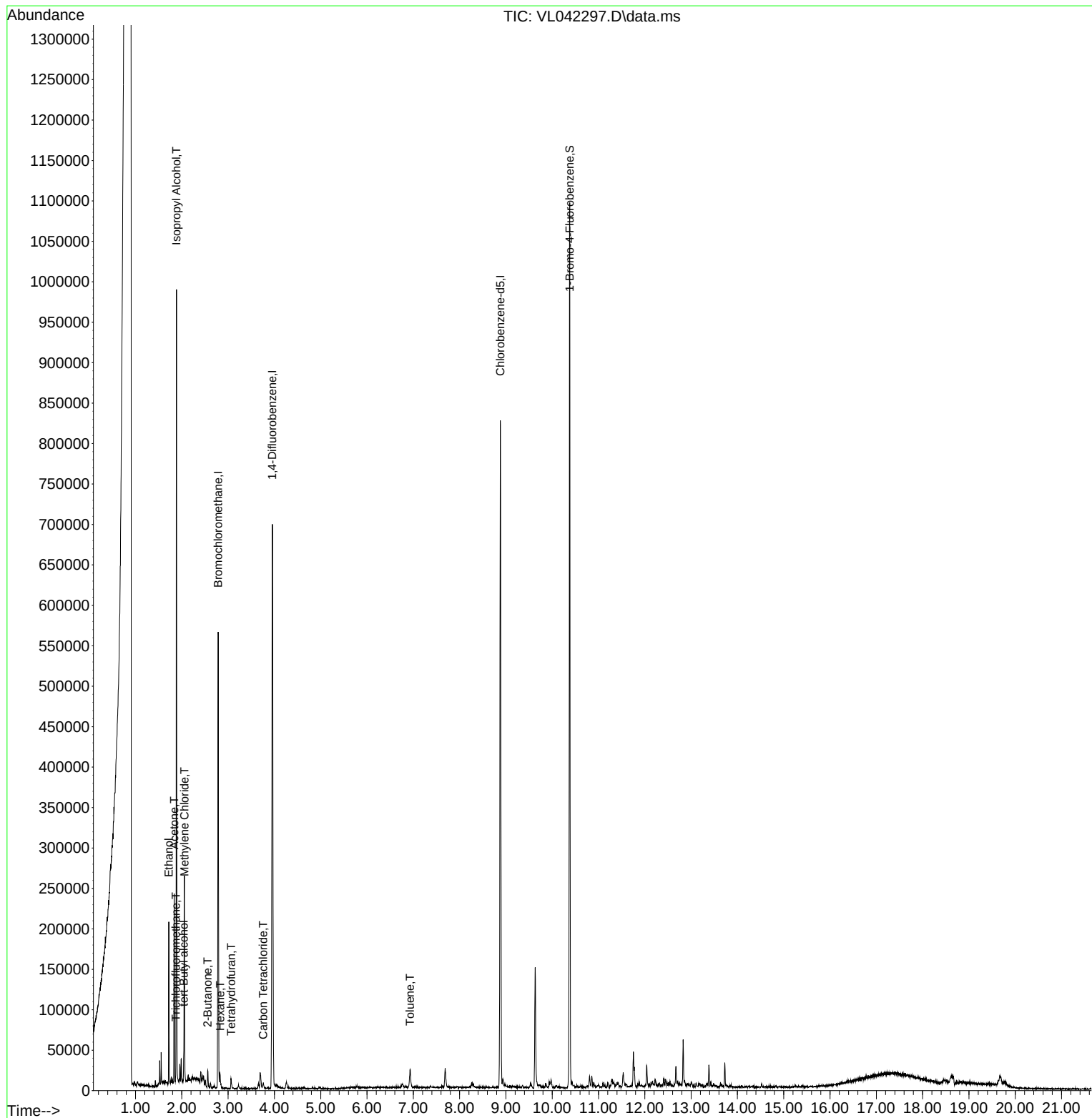
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042297.D
Acq On : 09 Apr 2025 17:31
Operator : SY/MD
Sample : Q1757-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

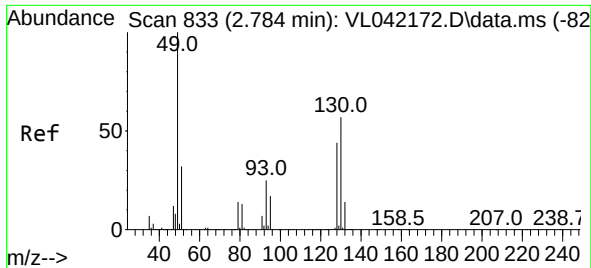
Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:47:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





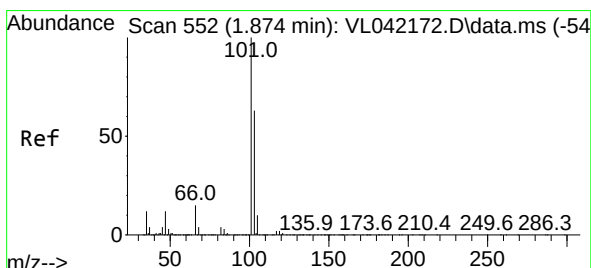
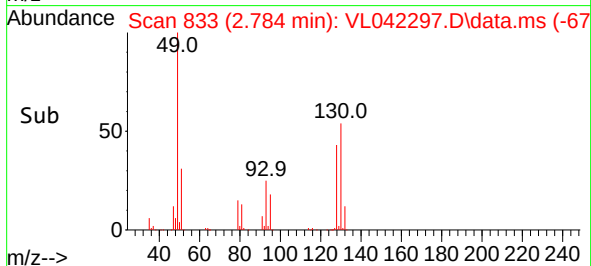
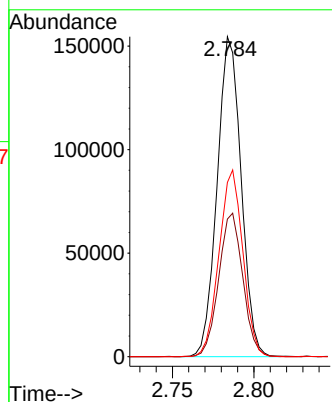
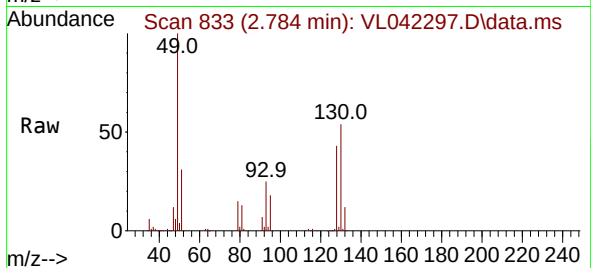
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 15826
Ion Ratio Lower Upper
49 100
128 45.0 22.9 68.5
130 58.0 28.8 86.4

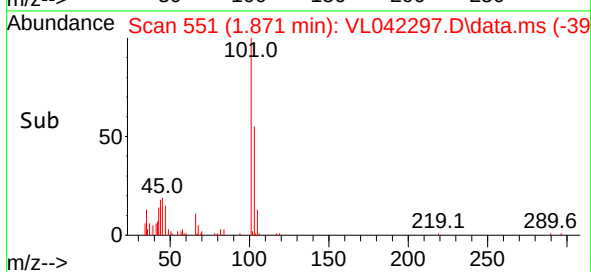
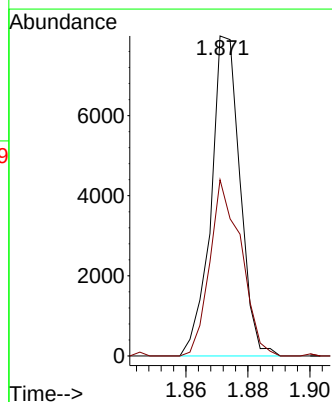
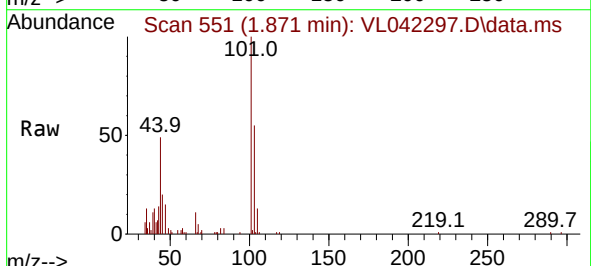
Manual Integrations
APPROVED

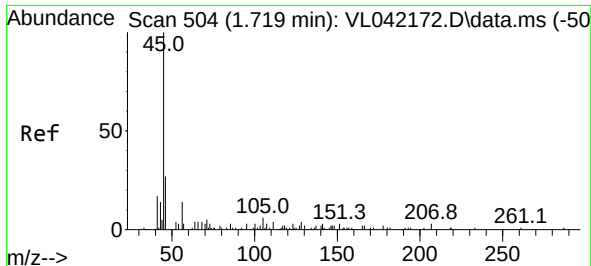
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#11
Trichlorofluoromethane
Concen: 0.229 ppbv
RT: 1.871 min Scan# 551
Delta R.T. -0.003 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

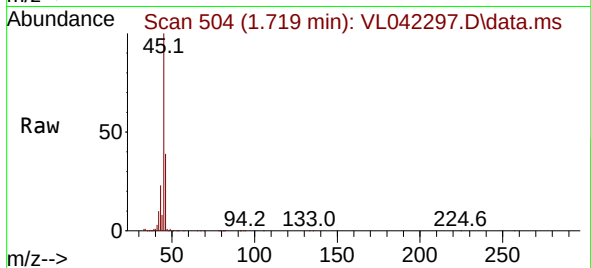
Tgt Ion:101 Resp: 5197
Ion Ratio Lower Upper
101 100
103 55.0 50.2 75.2





#13
Ethanol
Concen: 66.083 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

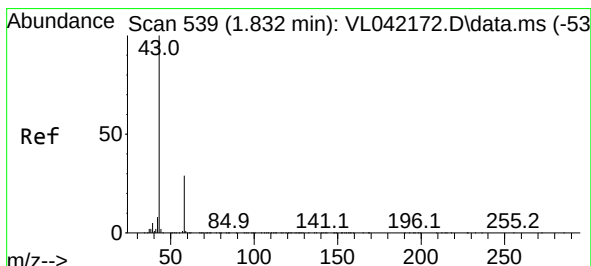
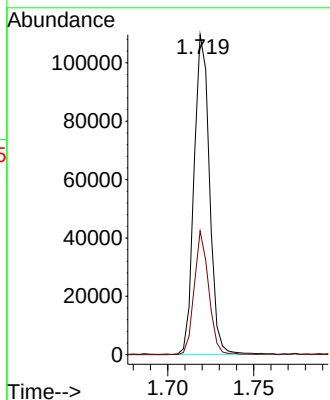
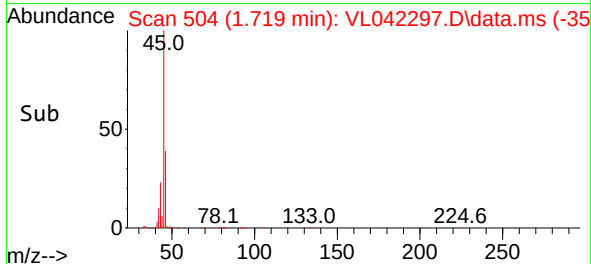
Instrument :
MSVOA_L
ClientSampleId :
IA1



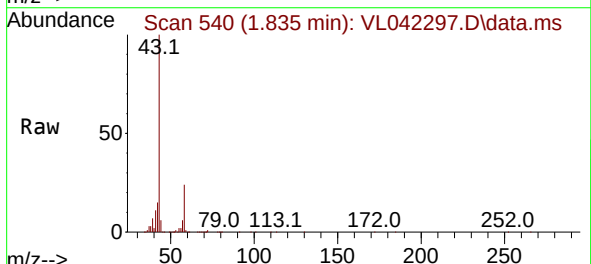
Tgt Ion: 45 Resp: 68354
Ion Ratio Lower Upper
45 100
46 36.5 20.2 80.8

Manual Integrations
APPROVED

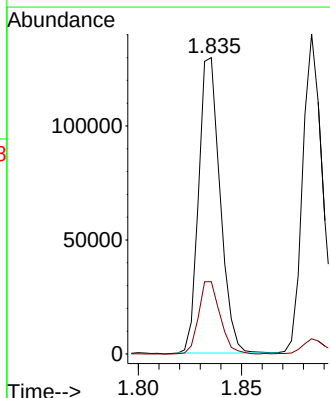
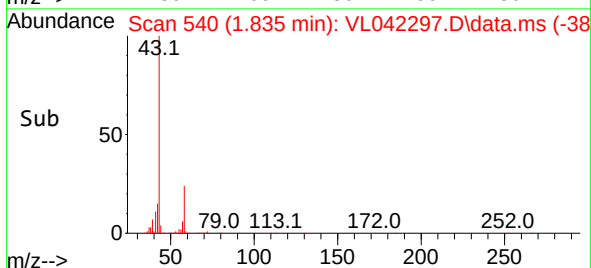
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

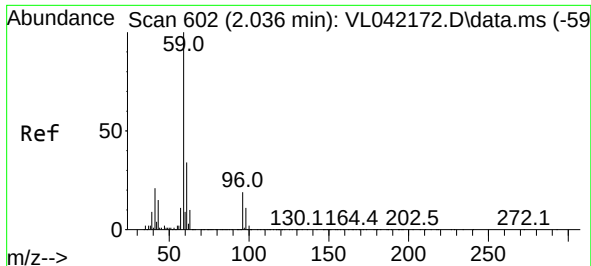


#15
Acetone
Concen: 4.218 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31



Tgt Ion: 43 Resp: 93369
Ion Ratio Lower Upper
43 100
58 24.6 23.2 34.8





#17

tert-Butyl alcohol

Concen: 0.634 ppbv

RT: 2.043 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL042297.D

Acq: 09 Apr 2025 17:31

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 59 Resp: 1747

Ion Ratio Lower Upper

59 100

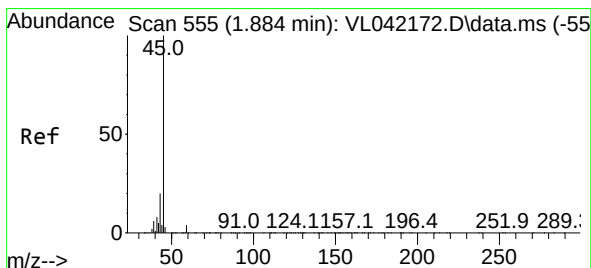
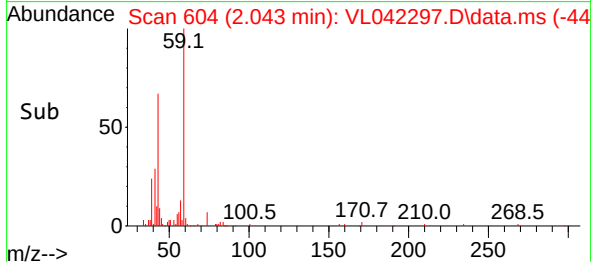
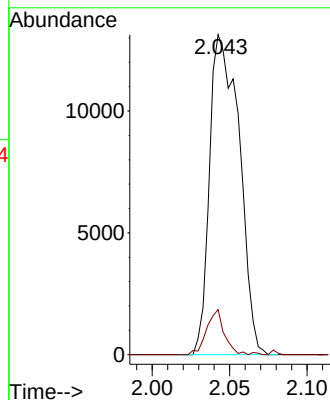
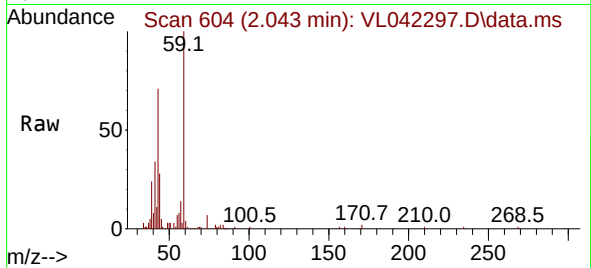
57 8.6 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#19

Isopropyl Alcohol

Concen: 31.559 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL042297.D

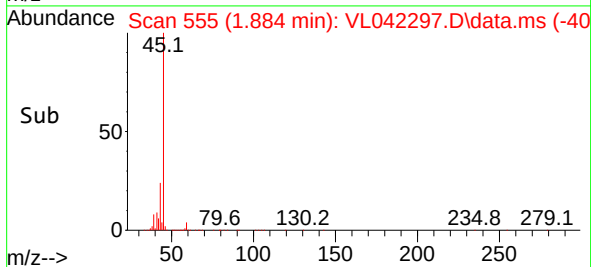
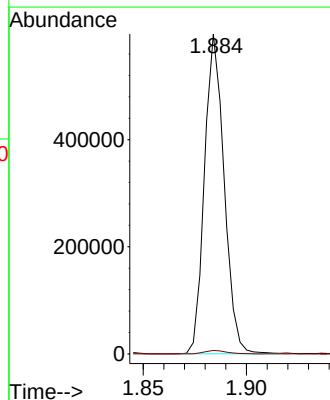
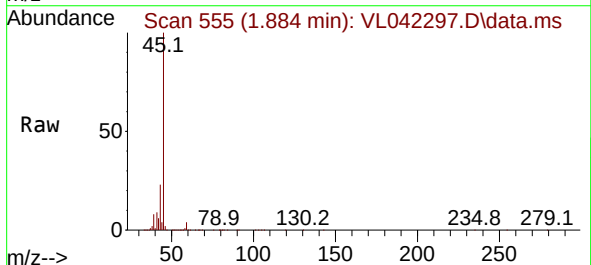
Acq: 09 Apr 2025 17:31

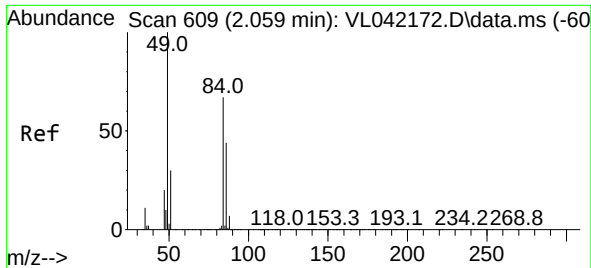
Tgt Ion: 45 Resp: 394134

Ion Ratio Lower Upper

45 100

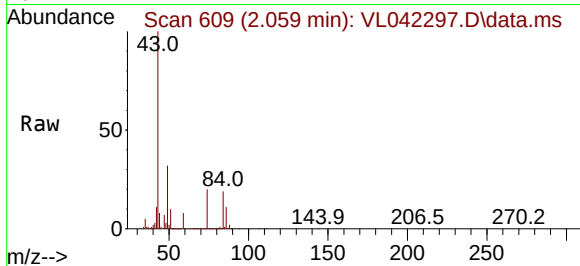
58 1.4 36.9 55.3





#20
Methylene Chloride
Concen: 1.506 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

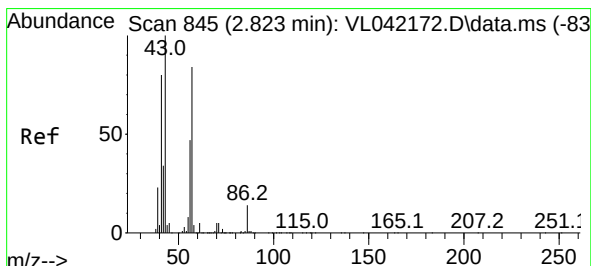
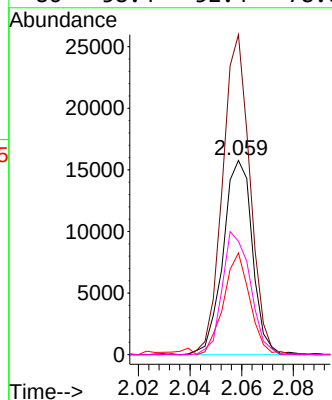
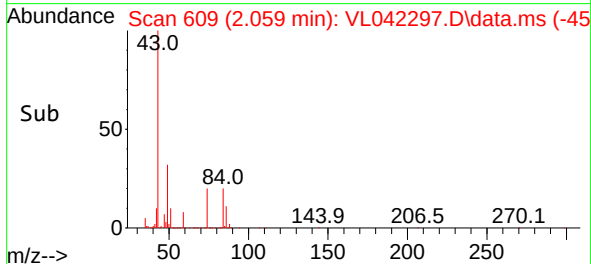
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 12419
Ion Ratio Lower Upper
84 100
49 164.7 120.2 180.4
51 50.6 37.4 56.0
86 58.4 52.4 78.6

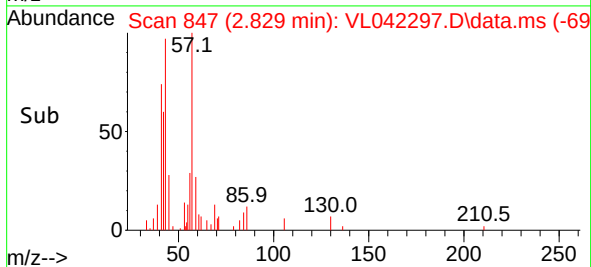
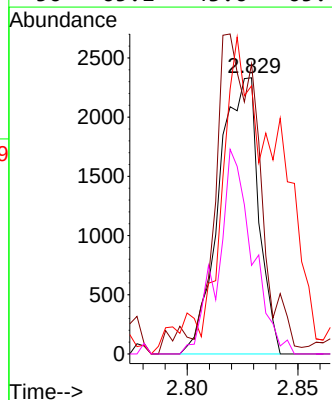
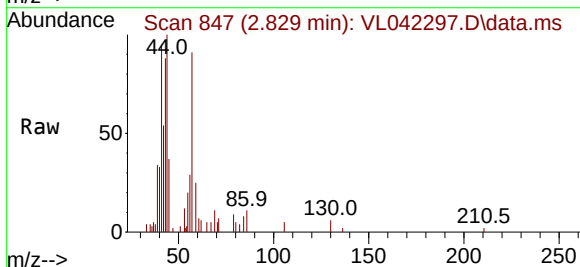
Manual Integrations
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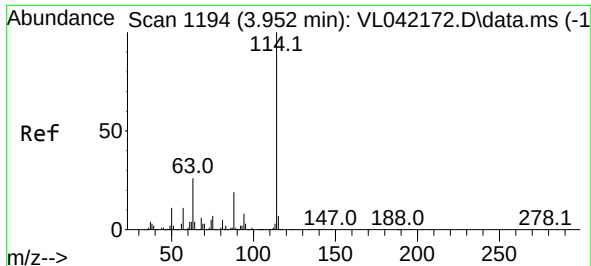
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#26
Hexane
Concen: 0.131 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

Tgt Ion: 57 Resp: 2900
Ion Ratio Lower Upper
57 100
41 136.4 76.6 114.8#
43 177.9 207.8 311.8#
56 65.1 43.6 65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1194

Delta R.T. 0.003 min

Lab File: VL042297.D

Acq: 09 Apr 2025 17:31

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 382470

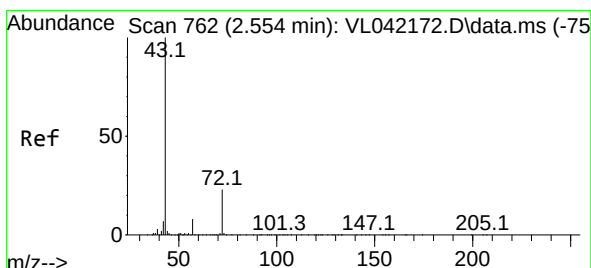
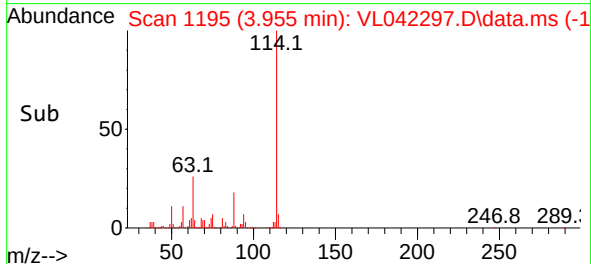
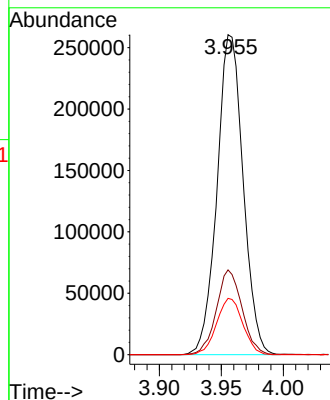
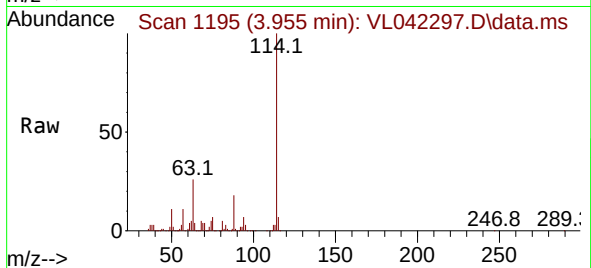
Ion	Ratio	Lower	Upper
114	100		
63	26.2	20.7	31.1
88	17.6	15.0	22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#34

2-Butanone

Concen: 0.494 ppbv

RT: 2.557 min Scan# 763

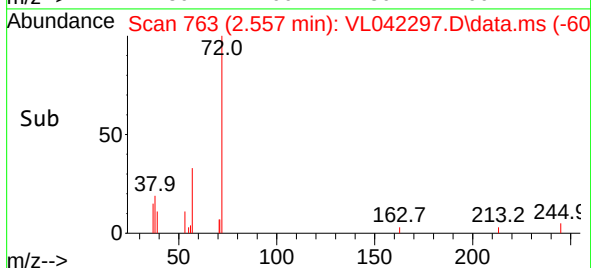
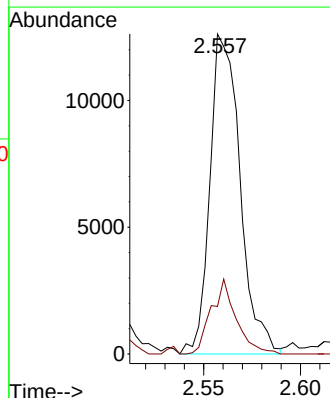
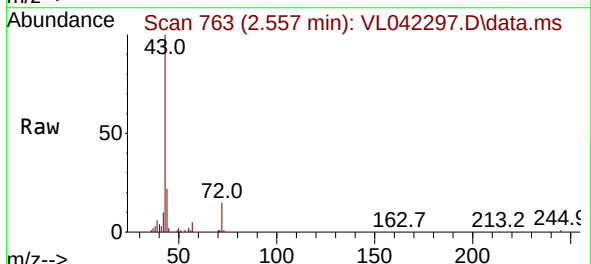
Delta R.T. 0.003 min

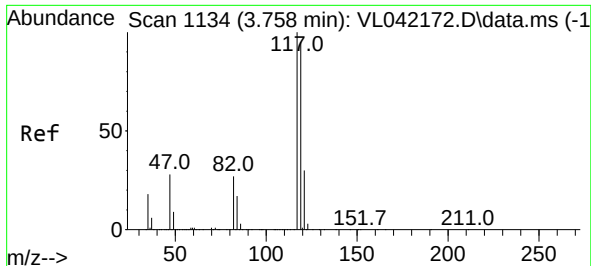
Lab File: VL042297.D

Acq: 09 Apr 2025 17:31

Tgt Ion: 43 Resp: 13691

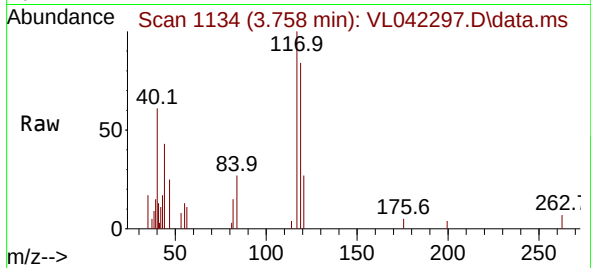
Ion	Ratio	Lower	Upper
43	100		
72	20.0	18.2	27.2





#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

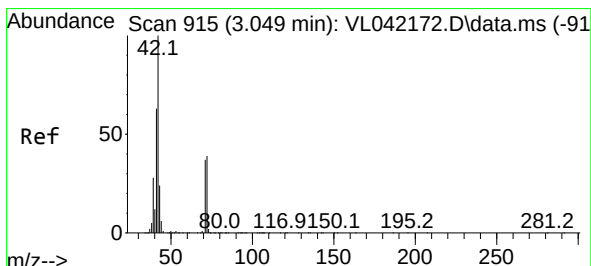
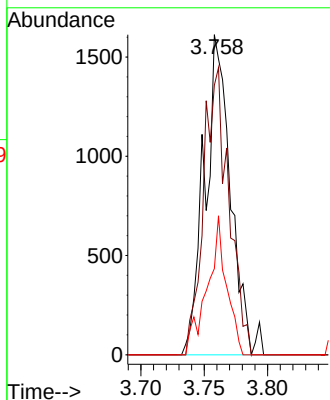
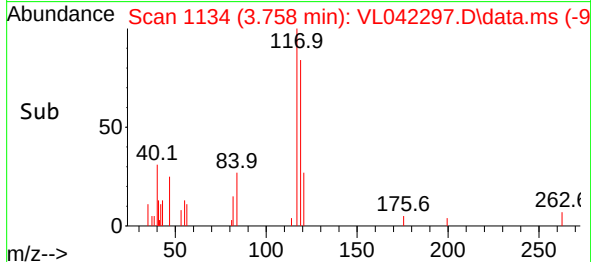
Instrument : MSVOA_L
ClientSampleId : IA1



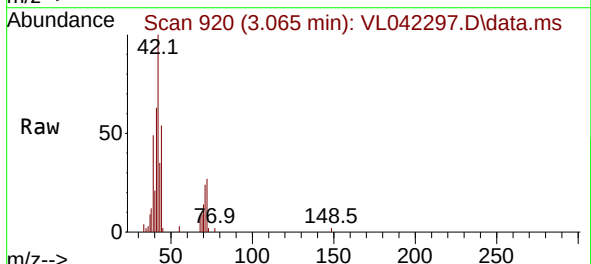
Tgt Ion: 117 Resp: 230
Ion Ratio Lower Upper
117 100
119 84.2 76.2 114.2
121 26.9 24.2 36.4

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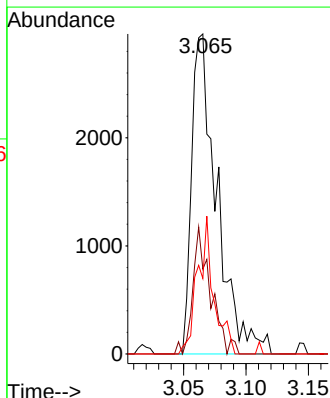
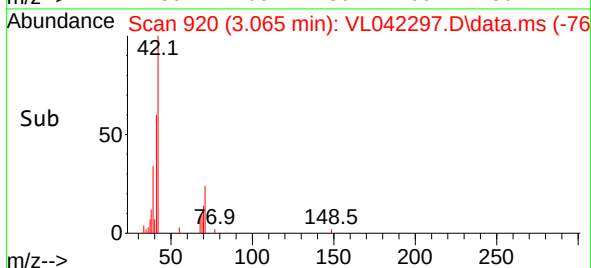
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

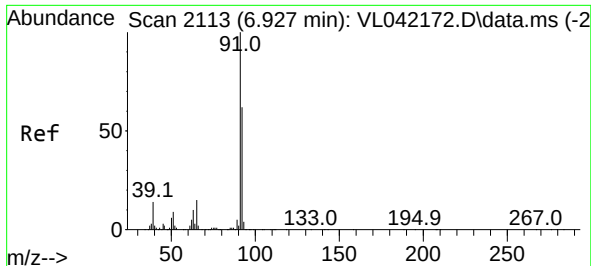


#41
Tetrahydrofuran
Concen: 0.260 ppbv m
RT: 3.065 min Scan# 920
Delta R.T. 0.016 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31



Tgt Ion: 42 Resp: 4148
Ion Ratio Lower Upper
42 100
72 28.2 31.4 47.0#
71 27.6 30.2 45.4#





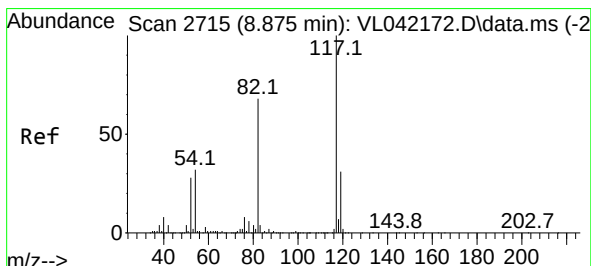
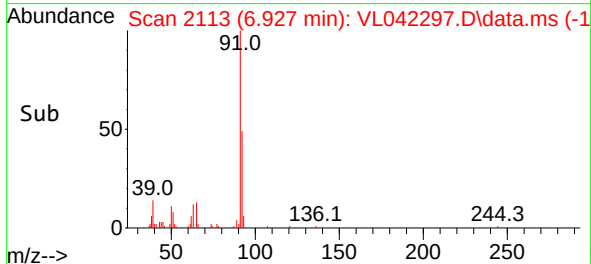
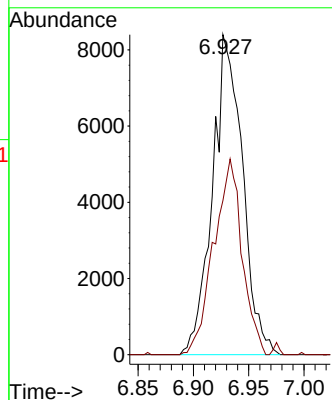
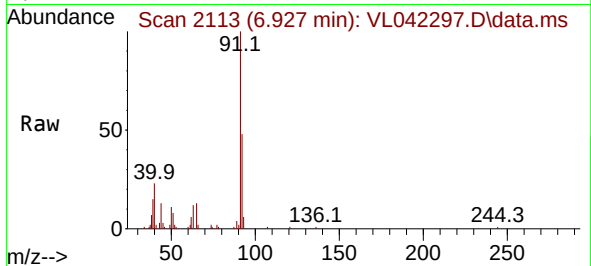
#53
Toluene
Concen: 0.353 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 1585
Ion Ratio Lower Upper
91 100
92 58.4 48.4 72.6

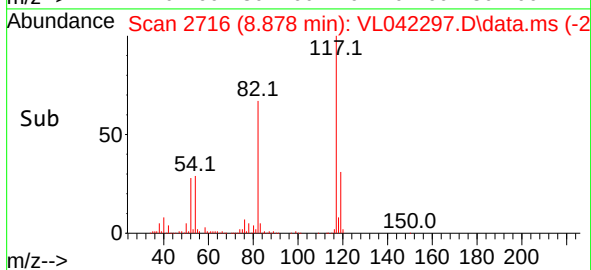
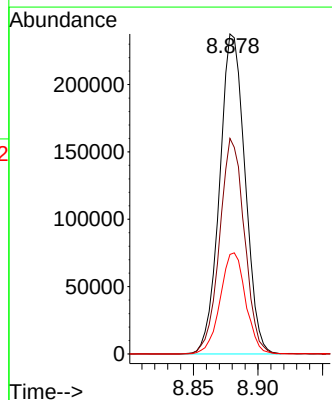
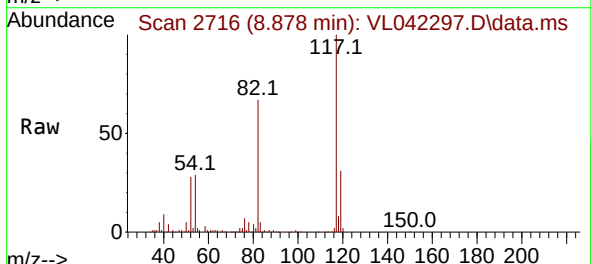
Manual Integrations
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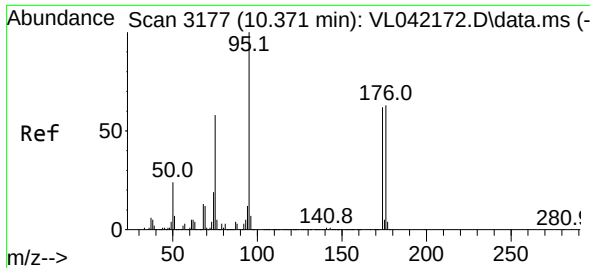
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

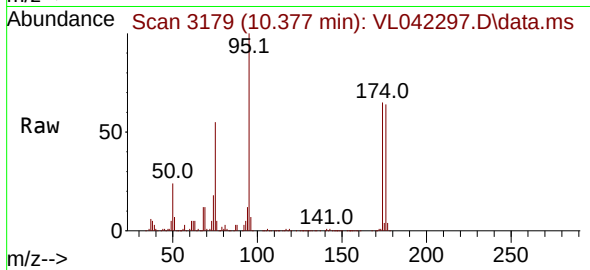
Tgt Ion:117 Resp: 324963
Ion Ratio Lower Upper
117 100
82 66.0 55.8 83.6
119 31.7 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.577 ppbv
 RT: 10.377 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: VL042297.D
 Acq: 09 Apr 2025 17:31

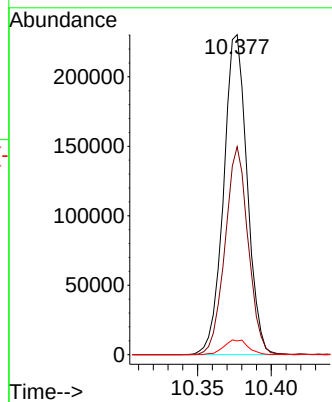
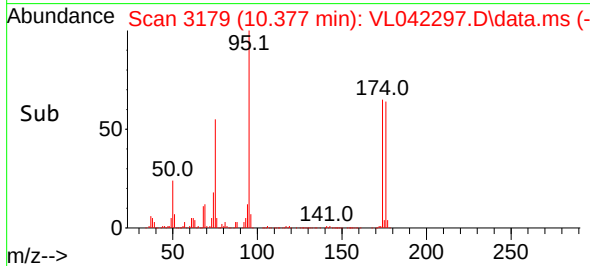
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 95 Resp: 255572
 Ion Ratio Lower Upper
 95 100
 174 64.0 50.6 76.0
 175 4.8 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1757 SAS No.: Q1757 SDG No.: Q1757
 Instrument ID: MSVOA_L Calibration Date(s): 03/27/2025 03/27/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:26 11:36
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL042172.D		RRF002 = VL042173.D		RRF001 = VL042174.D		
		RRF0.5 = VL042175.D		RRF0.1 = VL042176.D		RRF.03 = VL042177.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.549	0.584	0.576	0.635	0.705	0.882	0.639	18.8
Heptane	1.792	1.897	1.940	1.847			1.839	4.7
1,1-Dichloroethene	0.504	0.560	0.565	0.624			0.552	9
Cyclohexane	1.162	1.211	1.238	1.337			1.217	6.3
cis-1,2-Dichloroethene	1.371	1.426	1.460	1.507			1.423	4.4
1,1,1-Trichloroethane	2.062	2.152	2.201	2.279	2.495	3.151	2.349	16.2
2,2,4-Trimethylpentane	1.608	1.723	1.689	1.781			1.675	5
Benzene	0.934	1.013	1.027	1.050			0.991	5.5
Trichloroethene	0.374	0.398	0.408	0.438	0.437	0.463	0.414	8
Toluene	1.125	1.202	1.203	1.239			1.175	4.8
Tetrachloroethene	0.343	0.371	0.361	0.401	0.359	0.572	0.393	20.6
Ethyl Benzene	1.671	1.894	1.822	1.850			1.776	6.3
m/p-Xylene	1.321	1.484	1.472	1.505			1.418	6.7
o-Xylene	1.328	1.499	1.475	1.521			1.422	7.5
1,3,5-Trimethylbenzene	1.387	1.677	1.671	1.616			1.546	9.7
1,2,4-Trimethylbenzene	1.510	1.966	1.958	1.994			1.781	14.7
Naphthalene	1.806	2.314	2.181	1.979	1.637		1.948	13.3
1-Bromo-4-Fluorobenzene	0.813	0.828	0.810	0.832	0.827	0.820	0.821	1
Hexane	1.333	1.383	1.462	1.507			1.402	5.7

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

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

Method File : VL032725AIR.M

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

Last Update : Fri Mar 28 02:00:52 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042177.D 0.1 =VL042176.D 0.5 =VL042175.D 1 =VL042174.D 2 =VL042173.D 10 =VL042172.D 15 =VL042178.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.602	1.514	1.482	1.404	1.380	1.476	6.03
3) Chlorodifluoro...			1.622	1.541	1.514	1.457	1.408	1.508	5.41
4) Chloromethane			0.660	0.597	0.618	0.573	0.570	0.603	6.17
5) T Vinyl Chloride	0.882	0.705	0.635	0.576	0.584	0.549	0.546	0.639	18.84
6) T Bromomethane			0.327	0.268	0.266	0.256	0.250	0.273	11.20
7) Chloroethane			0.286	0.248	0.223	0.227	0.226	0.242	10.92
8) T Dichlorotetra...			1.306	1.283	1.274	1.214	1.211	1.257	3.40
9) T Propene			0.734	0.736	0.698	0.660	0.630	0.691	6.69
10) T Heptane			1.847	1.940	1.897	1.792	1.719	1.839	4.73
11) T Trichlorofluor...			1.562	1.457	1.480	1.339	1.346	1.437	6.59
12) T 1,1,2-Trichlor...			1.247	1.215	1.188	1.120	1.135	1.181	4.52
13) Ethanol			0.110	0.086	0.073	0.029	0.028	0.065	55.48
14) T Bromoethene			0.529	0.447	0.460	0.417	0.409	0.452	10.47
15) T Acetone			1.699	1.573	1.469	1.113	1.139	1.399	18.73
16) T 1,3-Butadiene			0.952	0.705	0.608	0.573	0.577	0.683	23.38
17) tert-Butyl alc...			1.935	1.799	1.756	1.618	1.601	1.742	7.91
18) T 1,1-Dichloroet...			0.624	0.565	0.560	0.504	0.507	0.552	8.99
19) T Isopropyl Alcohol			1.016	0.800	0.738	0.702	0.689	0.789	16.99
20) T Methylene Chlo...			0.624	0.563	0.545	0.438	0.435	0.521	15.85
21) T Allyl Chloride			1.067	1.022	1.020	0.902	0.921	0.986	7.25
22) T trans-1,2-Dich...			0.704	0.701	0.621	0.590	0.575	0.638	9.56
23) T Vinyl Acetate			0.754	0.692	0.550	0.498	0.532	0.605	18.40
24) T 1,1-Dichloroet...			1.247	1.208	1.187	1.122	1.149	1.183	4.17
25) T Ethyl Acetate			4.017	3.619	3.703	3.457	3.353	3.630	7.06
26) T Hexane			1.507	1.462	1.383	1.333	1.325	1.402	5.71
27) T Carbon Disulfide			1.608	1.512	1.538	1.436	1.423	1.503	5.07
28) T Methyl tert-Bu...			0.921	0.886	0.894	0.831	0.832	0.873	4.56
29) T Chloroform			2.233	2.068	2.071	1.932	1.956	2.052	5.81
30) T Cyclohexane			1.337	1.238	1.211	1.162	1.140	1.217	6.33
31) T cis-1,2-Dichlo...			1.507	1.460	1.426	1.371	1.353	1.423	4.44
32) T 1,1,1-Trichlor...	3.151	2.495	2.279	2.201	2.152	2.062	2.105	2.349	16.23

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.754	0.771	0.770	0.667	0.664	0.725	7.58
35) T Carbon Tetrach...	1.069	0.782	0.709	0.732	0.748	0.703	0.725	0.781	16.60
36) T Benzene			1.049	1.027	1.013	0.934	0.934	0.991	5.47
37) T 1,2-Dichloroet...			0.613	0.569	0.563	0.537	0.556	0.568	4.95
38) T Trichloroethene	0.463	0.437	0.438	0.408	0.398	0.374	0.378	0.414	8.00
39) T 1,2-Dichloropr...			0.386	0.373	0.365	0.337	0.344	0.361	5.68

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL032725AIR.M											
40)	T	1,4-Dioxane			0.234	0.197	0.191	0.169	0.167	0.192	14.08
41)	T	Tetrahydrofuran			0.439	0.425	0.432	0.398	0.393	0.418	4.98
42)	T	Bromodichlorom...			0.778	0.779	0.802	0.769	0.785	0.782	1.58
43)		Methyl Methacr...			0.442	0.451	0.408	0.403	0.394	0.420	6.03
44)	T	2,2,4-Trimethy...			1.781	1.689	1.723	1.608	1.576	1.675	5.00
45)	T	t-1,3-Dichloro...			0.474	0.447	0.453	0.439	0.440	0.450	3.15
46)	T	cis-1,3-Dichlo...			0.549	0.560	0.566	0.550	0.535	0.552	2.12
47)	T	1,1,2-Trichlor...			0.419	0.382	0.379	0.364	0.365	0.382	5.88
48)	T	Dibromochlorom...			0.651	0.641	0.663	0.636	0.644	0.647	1.62
49)	T	Bromoform			0.566	0.588	0.597	0.582	0.570	0.581	2.18
50)	T	4-Methyl-2-Pen...			1.286	1.214	1.211	1.027	1.008	1.149	10.79
51)	T	2-Hexanone			0.999	1.018	1.031	0.844	0.827	0.944	10.56
52)	T	Tetrachloroethene	0.572	0.359	0.401	0.361	0.371	0.343	0.345	0.393	20.64
53)	T	Toluene			1.239	1.203	1.202	1.125	1.108	1.175	4.76
54)	T	1,2-Dibromoethane	0.574		0.543	0.538	0.520	0.508	0.510	0.532	4.74
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.576	0.575	0.576	0.510	0.515	0.550	6.30
57)	T	Chlorobenzene			1.024	0.979	0.994	0.875	0.871	0.949	7.46
58)	T	Ethyl Benzene			1.850	1.822	1.894	1.671	1.645	1.776	6.28
59)	T	m/p-Xylene			1.505	1.472	1.484	1.321	1.309	1.418	6.71
60)	T	o-Xylene			1.521	1.475	1.499	1.328	1.287	1.422	7.50
61)	T	Styrene			0.709	0.722	0.735	0.683	0.668	0.703	3.92
62)		Isopropylbenzene			2.290	2.199	2.261	1.962	1.920	2.126	8.14
63)	T	1,1,2,2-Tetrac...	0.986	0.800	0.907	0.889	0.893	0.796	0.777	0.864	8.78
64)		n-propylbenzene			0.578	0.581	0.576	0.499	0.502	0.547	7.81
65)		tert-Butylbenzene			2.190	2.071	2.144	1.736	1.691	1.966	11.96
66)	T	Benzyl Chloride			0.217	0.213	0.221	0.203	0.189	0.209	6.06
67)		sec-Butylbenzene			3.005	2.994	2.947	2.404	2.316	2.733	12.54
68)	S	1-Bromo-4-Fluo...	0.820	0.827	0.832	0.810	0.828	0.813	0.820	0.821	0.98
69)		p-Isopropyltol...			2.554	2.551	2.560	2.078	2.025	2.354	11.74
70)		n-Butylbenzene			2.536	2.598	2.682	2.137	2.082	2.407	11.51
71)		2-Chlorotoluene			1.717	1.728	1.759	1.538	1.510	1.650	7.07
72)	T	4-Ethyltoluene			1.834	1.859	1.929	1.629	1.601	1.770	8.26
73)	T	1,3,5-Trimethy...			1.616	1.671	1.677	1.387	1.381	1.546	9.71
74)	T	1,2,4-Trimethy...			1.994	1.958	1.966	1.510	1.478	1.781	14.74
75)	T	1,3-Dichlorobe...			1.036	1.022	1.063	0.882	0.882	0.977	8.99
76)	T	1,4-Dichlorobe...			1.030	1.017	1.040	0.888	0.886	0.972	8.05
77)	T	1,2-Dichlorobe...			1.012	1.031	1.014	0.850	0.850	0.951	9.78
78)	T	Hexachloro-1,3...			1.057	1.113	1.086	0.802	0.784	0.968	16.65
79)	T	Naphthalene	1.637		1.979	2.181	2.314	1.806	1.773	1.948	13.31
80)	T	Naphthalene,2-...			0.721	0.891	1.163	0.990	1.013	0.955	17.09
81)	T	1,2,4-Trichlor...			0.821	0.941	1.028	0.859	0.843	0.899	9.51

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	187002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	545068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	519536	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	422410	9.901	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	262496	9.507	ppbv	100
3) Chlorodifluoromethane	1.473	51	272522	9.662	ppbv	100
4) Chloromethane	1.531	50	107099	9.491	ppbv	100
5) Vinyl Chloride	1.577	62	102699	8.925	ppbv	100
6) Bromomethane	1.664	94	47950	9.377	ppbv	100
7) Chloroethane	1.703	64	42516	9.387	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	227041	9.656	ppbv	100
9) Propene	1.483	41	123386	9.709	ppbv	100
10) Heptane	4.972	43	335086	9.744	ppbv	100
11) Trichlorofluoromethane	1.874	101	250349	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	209365	9.481	ppbv	100
13) Ethanol	1.719	45	5338	5.364	ppbv	100
14) Bromoethene	1.777	108	77999	9.220	ppbv	100
15) Acetone	1.832	43	208061	7.955	ppbv	100
16) 1,3-Butadiene	1.606	39	107104	9.105	ppbv	100
17) tert-Butyl alcohol	2.036	59	302616	9.290	ppbv	100
18) 1,1-Dichloroethene	2.030	96	94236	9.128	ppbv	100
19) Isopropyl Alcohol	1.884	45	131359	8.902	ppbv	100
20) Methylene Chloride	2.059	84	81828	8.401	ppbv	100
21) Allyl Chloride	2.091	41	168602	9.141	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	110371	9.149	ppbv	100
23) Vinyl Acetate	2.460	43	93080	8.563	ppbv	100
24) 1,1-Dichloroethane	2.405	63	209753	9.484	ppbv	100
25) Ethyl Acetate	2.833	43	646501	9.524	ppbv	100
26) Hexane	2.823	57	249331	9.510	ppbv	100
27) Carbon Disulfide	2.146	76	268507	9.550	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	155398	9.520	ppbv	100
29) Chloroform	2.845	83	361264	9.415	ppbv	100
30) Cyclohexane	3.852	84	217215	9.537	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	256425	9.634	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	385628	8.784	ppbv	100
34) 2-Butanone	2.554	43	363735	9.203	ppbv	100
35) Carbon Tetrachloride	3.758	117	382925	9.129	ppbv	100
36) Benzene	3.651	78	508860	9.417	ppbv	100
37) 1,2-Dichloroethane	3.214	62	292937	9.469	ppbv	100
38) Trichloroethene	4.545	130	204027	9.045	ppbv	100
39) 1,2-Dichloropropane	4.312	63	183439	9.321	ppbv	100
40) 1,4-Dioxane	4.577	88	92327	9.042	ppbv #	100
41) Tetrahydrofuran	3.049	42	216851	9.643	ppbv	100
42) Bromodichloromethane	4.483	83	418887	9.822	ppbv	100
43) Methyl Methacrylate	4.872	69	219399	9.618	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	876649	9.600	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	239180	9.746	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
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 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
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Quant Time: Mar 28 01:31:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv	100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv	100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv	100
49) Bromoform	9.477	173	317189	10.021	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	559800	8.934	ppbv	100
51) 2-Hexanone	7.432	43	460013	8.848	ppbv #	100
52) Tetrachloroethene	8.218	164	186912	8.722	ppbv	100
53) Toluene	6.927	91	613378	9.576	ppbv	100
54) 1,2-Dibromoethane	7.649	107	276797	9.536	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.917	131	265037	9.268	ppbv	100
57) Chlorobenzene	8.917	112	454511	9.223	ppbv	100
58) Ethyl Benzene	9.351	91	868003	9.406	ppbv	100
59) m/p-Xylene	9.549	91	1372806m	18.607	ppbv	
60) o-Xylene	9.960	91	689933	9.340	ppbv	100
61) Styrene	9.866	104	354697	9.706	ppbv	100
62) Isopropylbenzene	10.536	105	1019255	9.227	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.960	83	413392	9.210	ppbv	100
64) n-propylbenzene	10.986	120	259405	9.122	ppbv	100
65) tert-Butylbenzene	11.529	119	901951	8.828	ppbv	100
66) Benzyl Chloride	11.610	91	105411	9.724	ppbv	100
67) sec-Butylbenzene	11.766	105	1249106	8.796	ppbv	100
69) p-Isopropyltoluene	11.924	119	1079675	8.830	ppbv	100
70) n-Butylbenzene	12.277	91	1110351	8.879	ppbv	100
71) 2-Chlorotoluene	10.898	91	799102	9.320	ppbv	100
72) 4-Ethyltoluene	11.122	105	846232	9.200	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	720566	8.970	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	784745	8.480	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	458226	9.028	ppbv	100
76) 1,4-Dichlorobenzene	11.669	146	461371	9.134	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	441473	8.933	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	416735	8.284	ppbv	100
79) Naphthalene	13.510	128	938470	9.271	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	514394	10.436	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	446420	9.561	ppbv	100

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

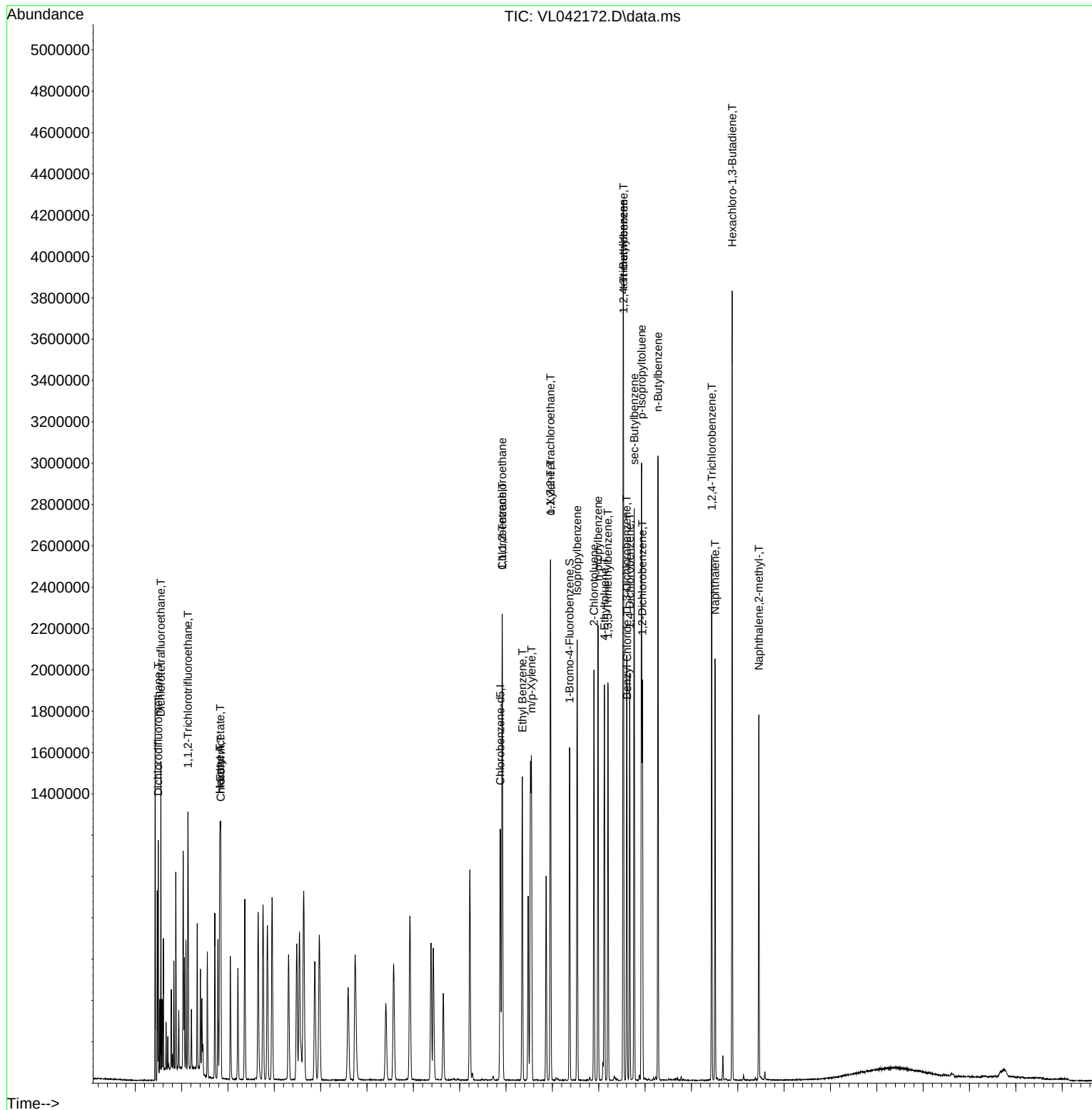
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

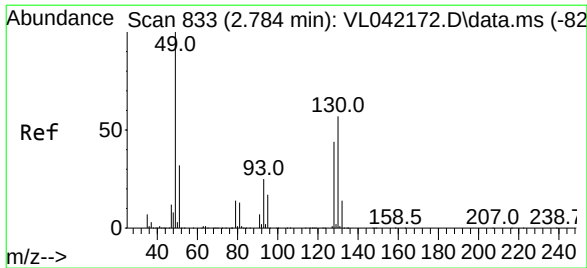
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

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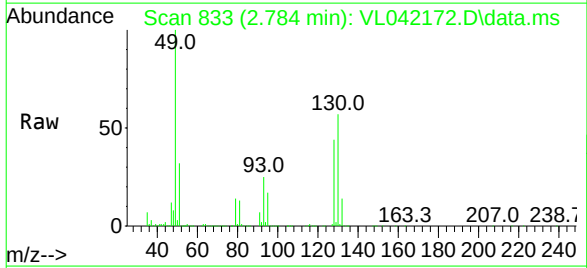
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

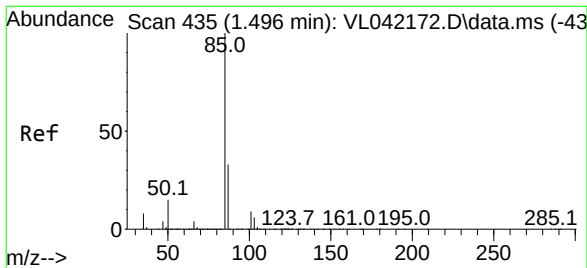
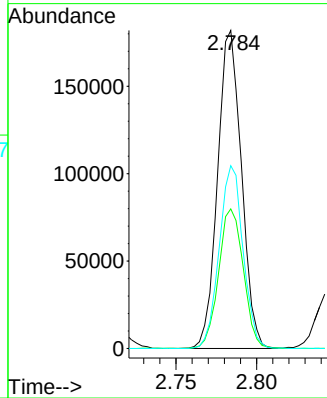
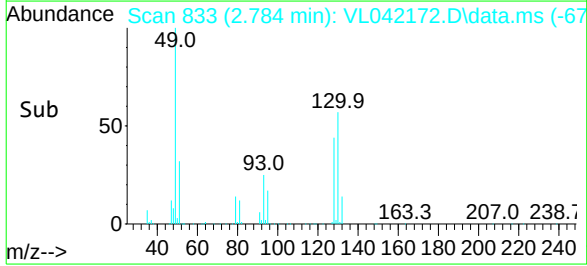
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 49 Resp: 187002
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 57.6 28.8 86.4

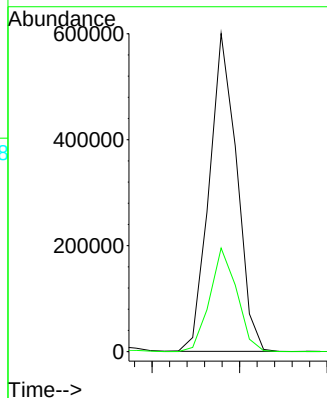
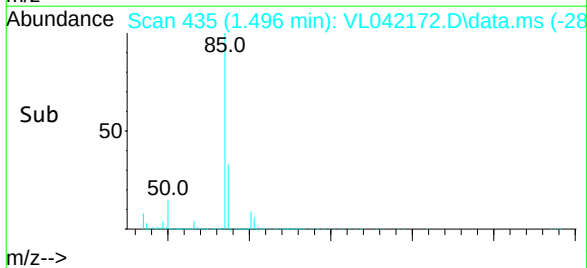
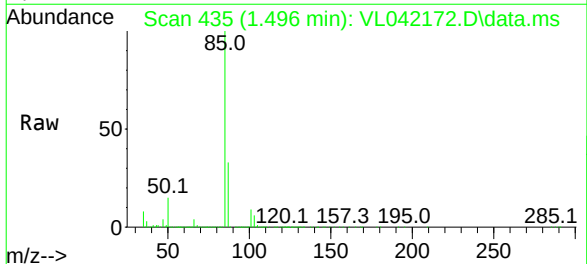
Manual Integrations
APPROVED

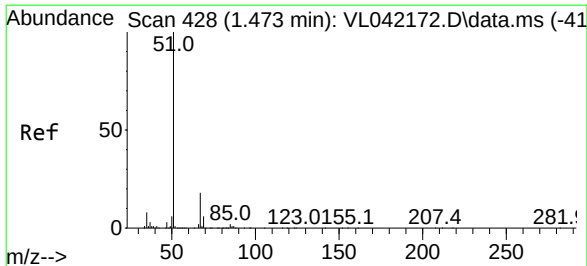
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#2
Dichlorodifluoromethane
Concen: 9.507 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 85 Resp: 262496
Ion Ratio Lower Upper
85 100
87 32.6 26.1 39.1





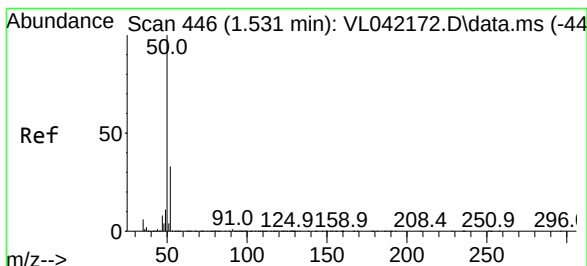
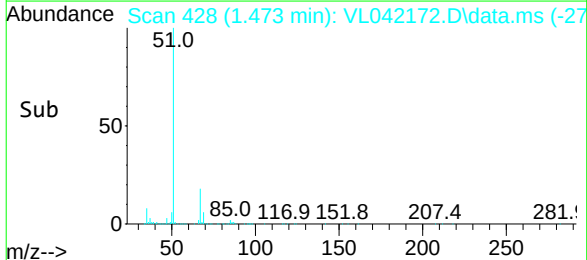
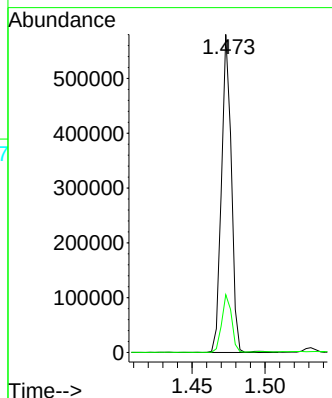
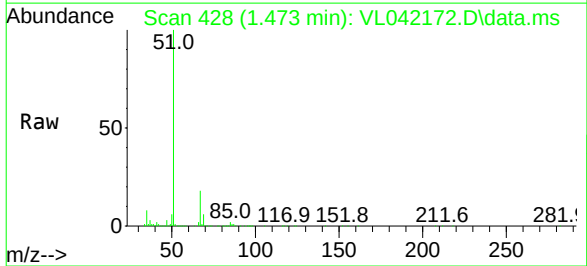
#3
Chlorodifluoromethane
Concen: 9.662 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 272522
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6

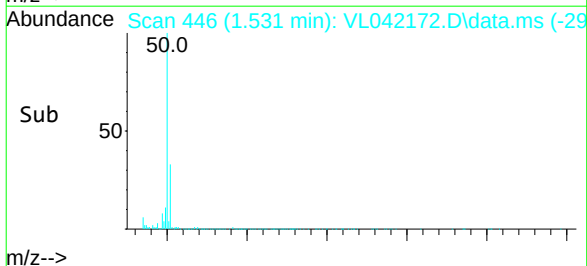
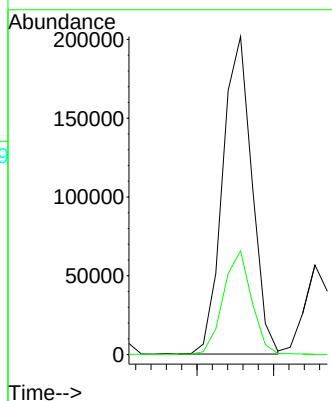
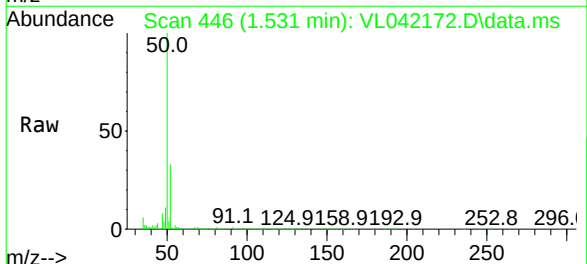
Manual Integrations
APPROVED

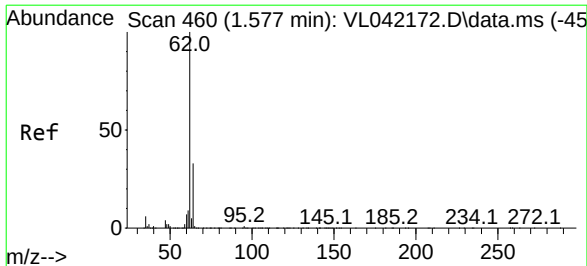
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 9.491 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 50 Resp: 107099
Ion Ratio Lower Upper
50 100
52 32.6 26.1 39.1





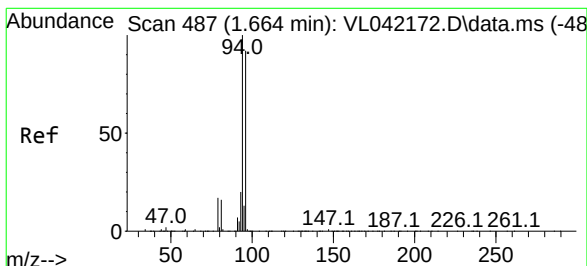
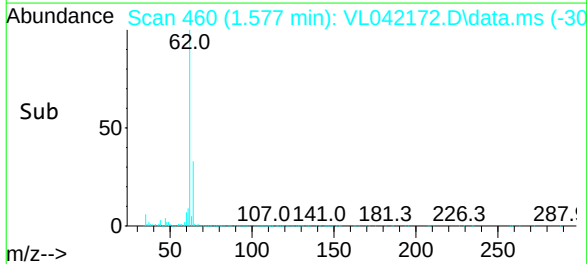
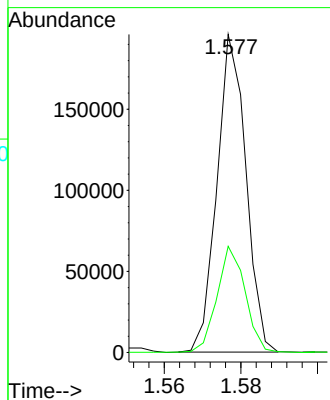
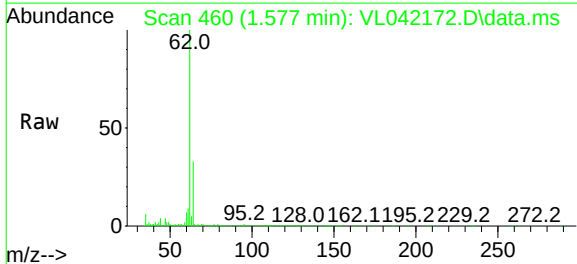
#5
 Vinyl Chloride
 Concen: 8.925 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 62 Resp: 102699
 Ion Ratio Lower Upper
 62 100
 64 33.3 26.6 40.0

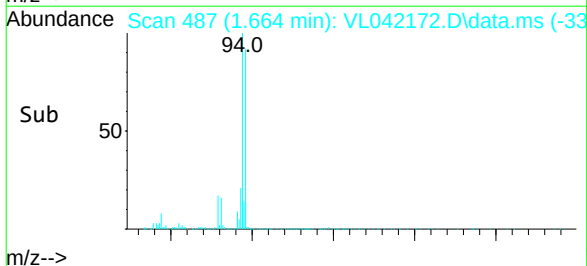
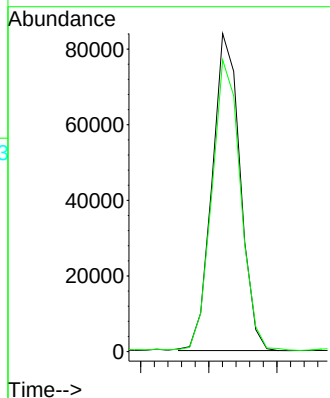
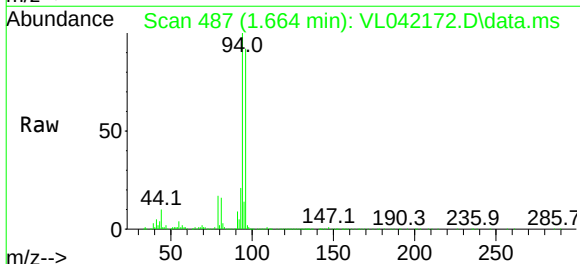
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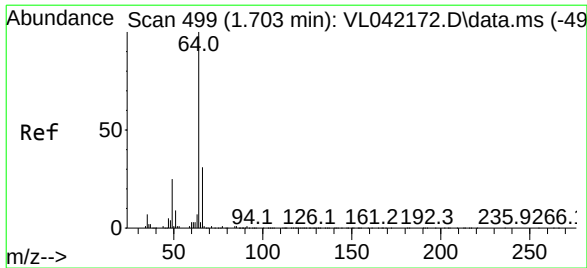
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 9.377 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 94 Resp: 47950
 Ion Ratio Lower Upper
 94 100
 96 91.4 73.1 109.7





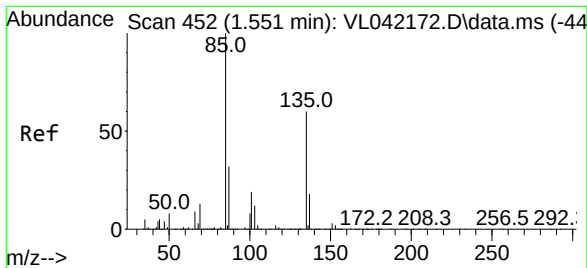
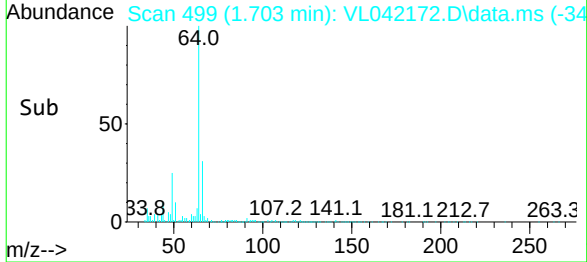
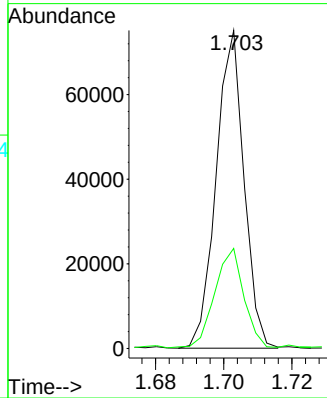
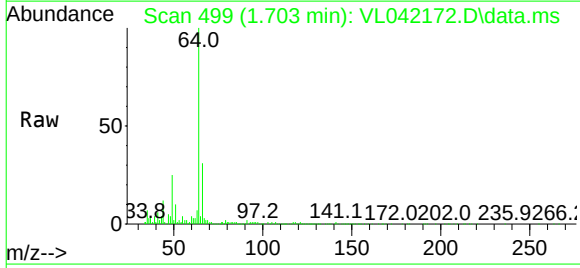
#7
Chloroethane
Concen: 9.387 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 64 Resp: 42516
Ion Ratio Lower Upper
64 100
66 31.5 25.2 37.8

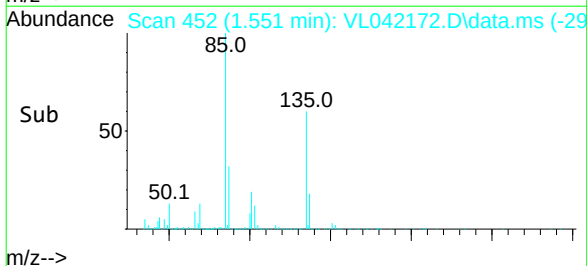
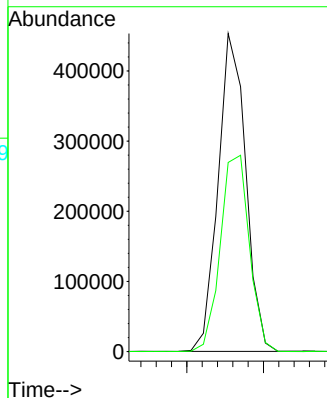
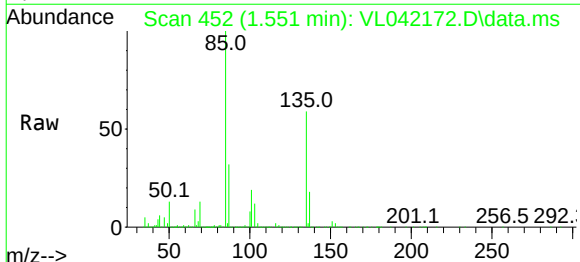
Manual Integrations
APPROVED

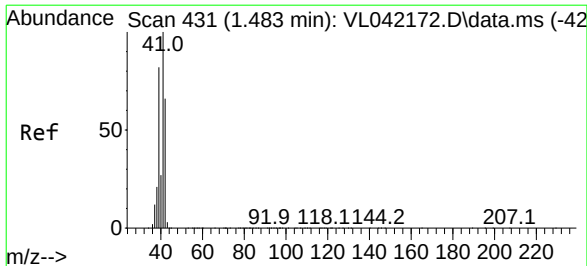
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 9.656 ppbv
RT: 1.551 min Scan# 452
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

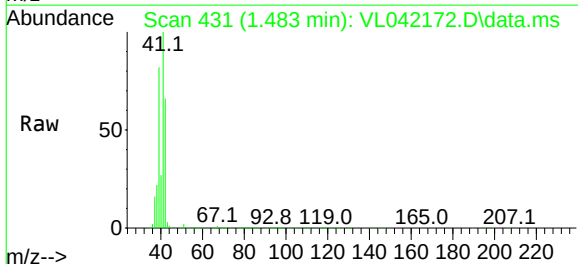
Tgt Ion: 85 Resp: 227041
Ion Ratio Lower Upper
85 100
135 65.5 52.4 78.6





#9
 Propene
 Concen: 9.709 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

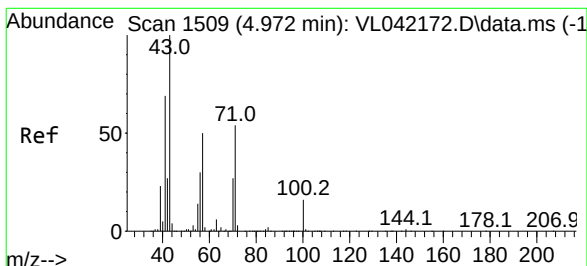
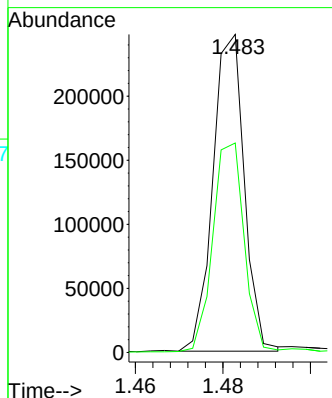
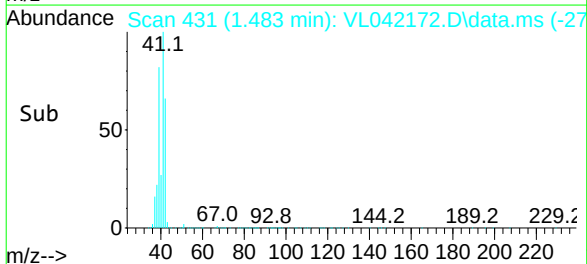
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 41 Resp: 123386
 Ion Ratio Lower Upper
 41 100
 42 69.3 55.4 83.2

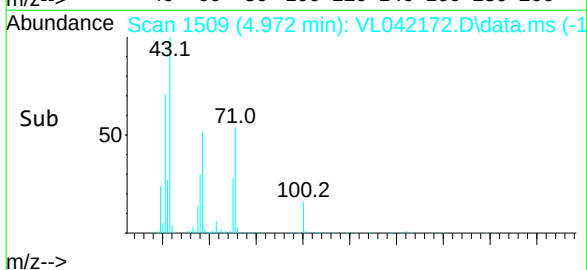
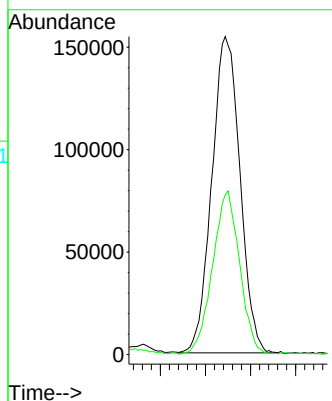
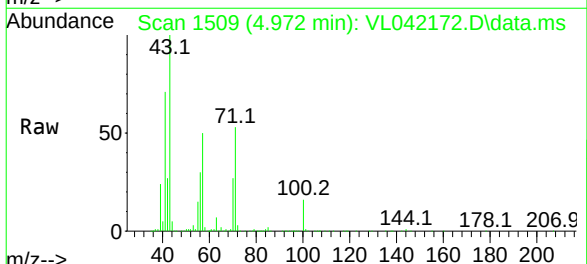
Manual Integrations
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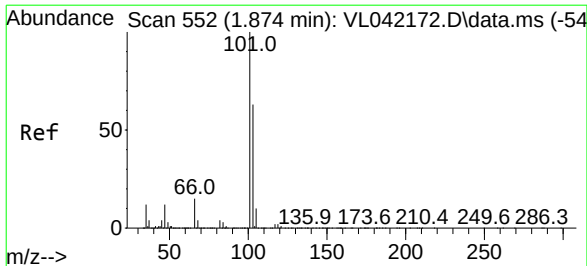
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#10
 Heptane
 Concen: 9.744 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 335086
 Ion Ratio Lower Upper
 43 100
 57 49.3 39.4 59.2





#11

Trichlorofluoromethane

Concen: 9.318 ppbv

RT: 1.874 min Scan# 552

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:101 Resp: 250349

Ion Ratio Lower Upper

101 100

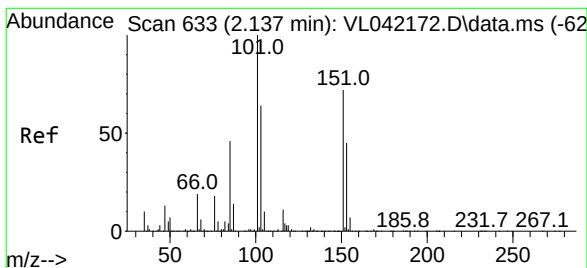
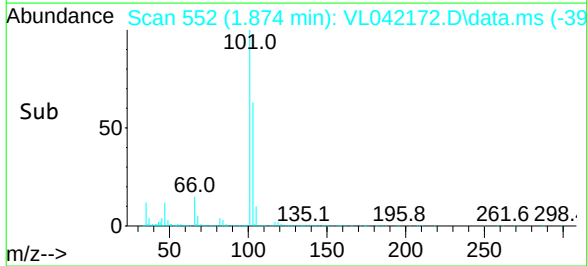
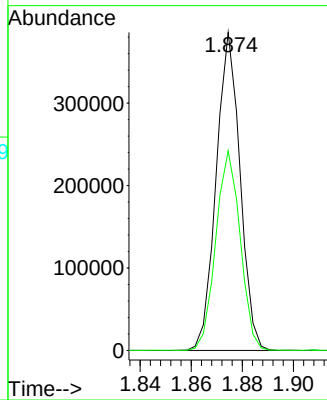
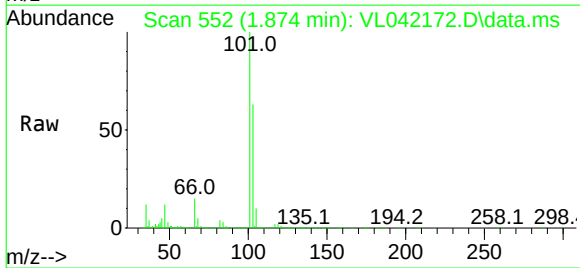
103 62.7 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.481 ppbv

RT: 2.137 min Scan# 633

Delta R.T. 0.000 min

Lab File: VL042172.D

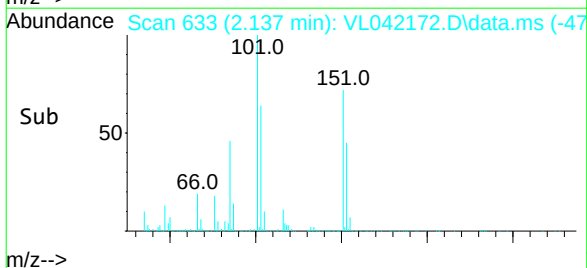
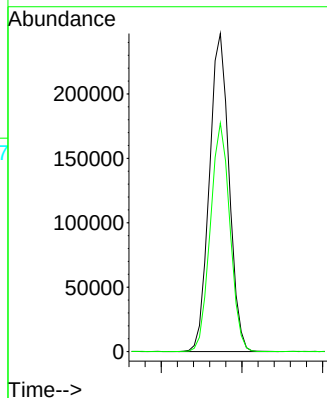
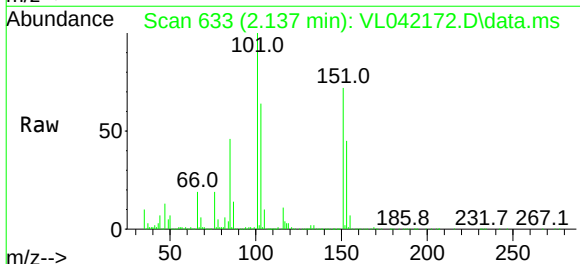
Acq: 27 Mar 2025 08:26

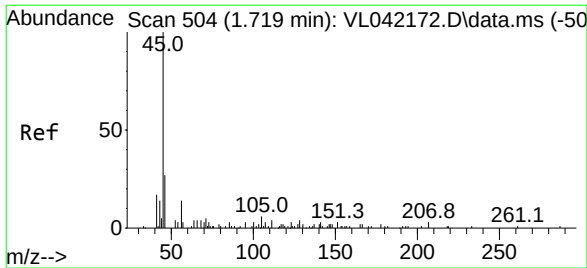
Tgt Ion:101 Resp: 209365

Ion Ratio Lower Upper

101 100

151 71.4 57.1 85.7





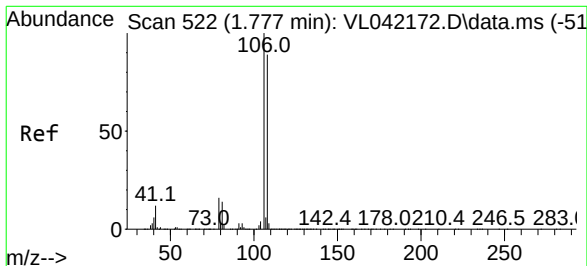
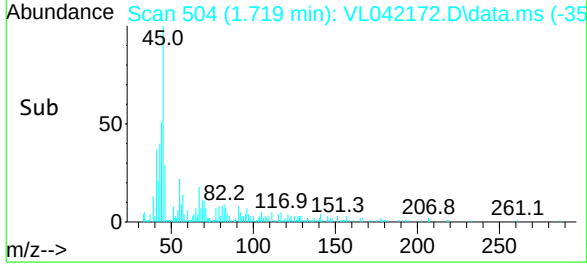
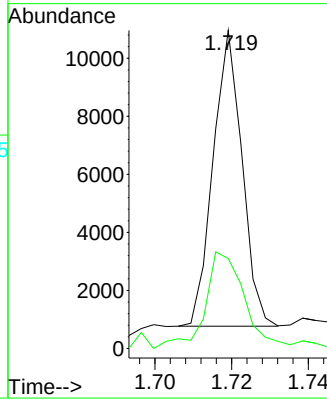
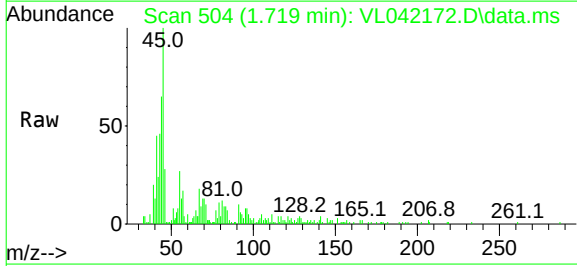
#13
Ethanol
Concen: 5.364 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 5338
Ion Ratio Lower Upper
45 100
46 50.5 20.2 80.8

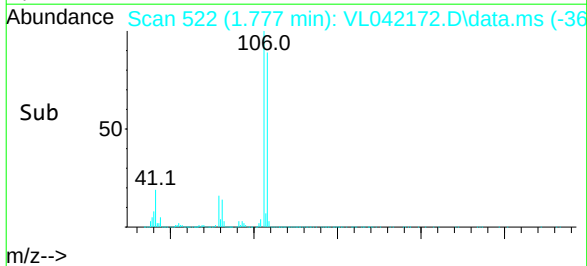
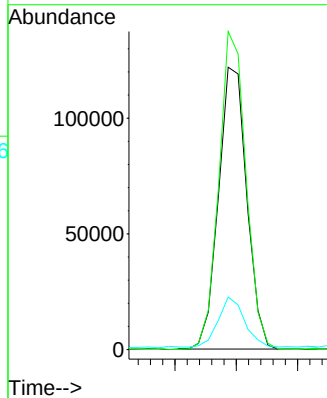
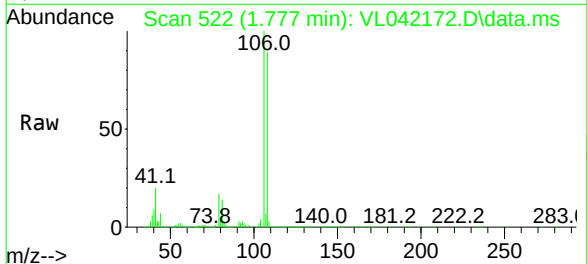
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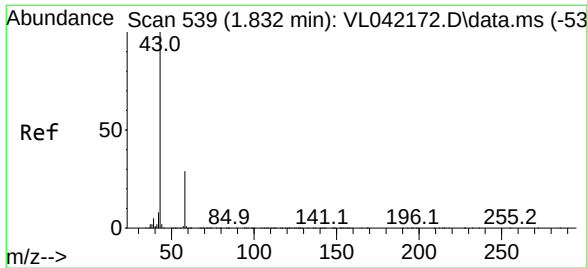
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 9.220 ppbv
RT: 1.777 min Scan# 522
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:108 Resp: 77999
Ion Ratio Lower Upper
108 100
106 108.5 86.8 130.2
79 18.8 15.0 22.6





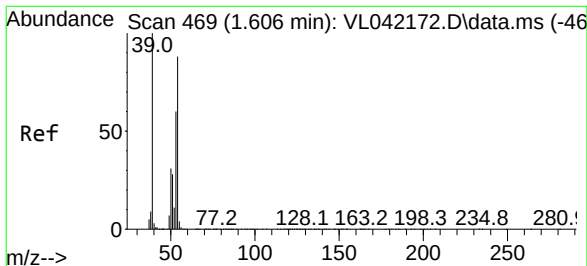
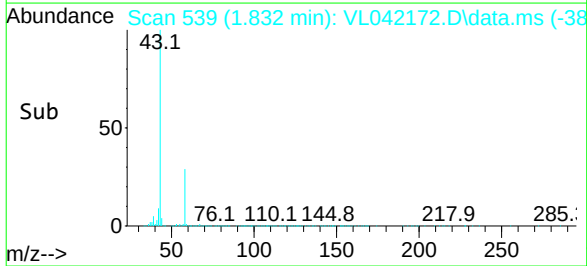
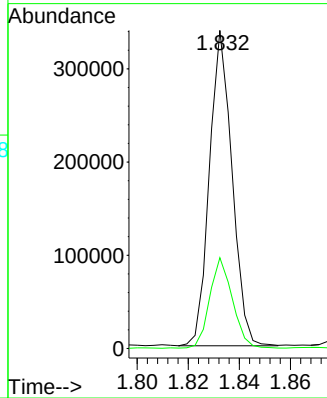
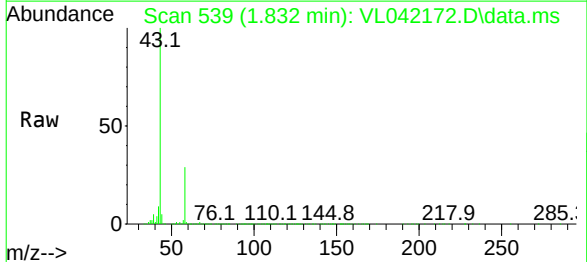
#15
Acetone
Concen: 7.955 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 208061
Ion Ratio Lower Upper
43 100
58 29.0 23.2 34.8

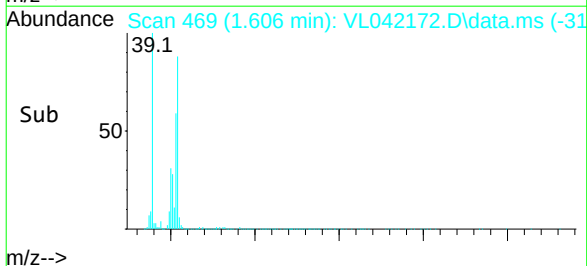
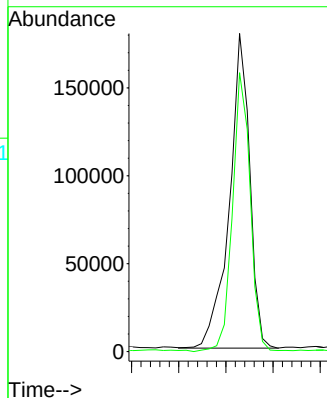
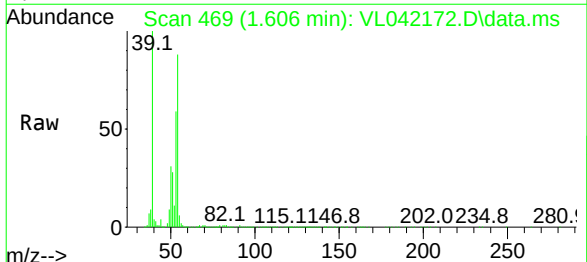
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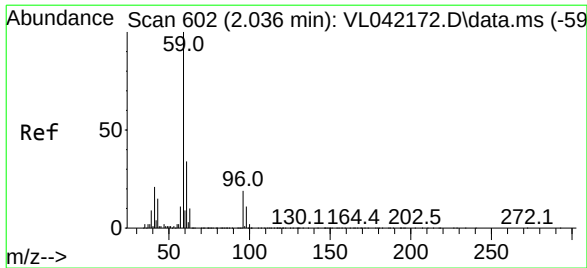
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 9.105 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 39 Resp: 107104
Ion Ratio Lower Upper
39 100
54 75.9 60.7 91.1





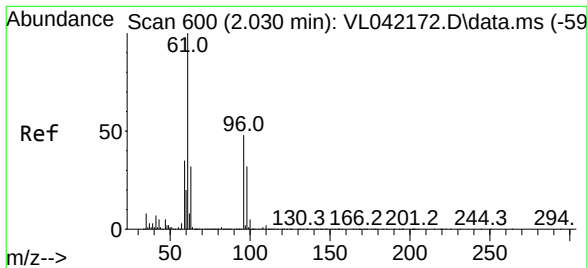
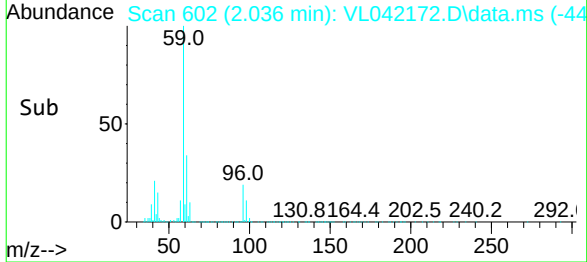
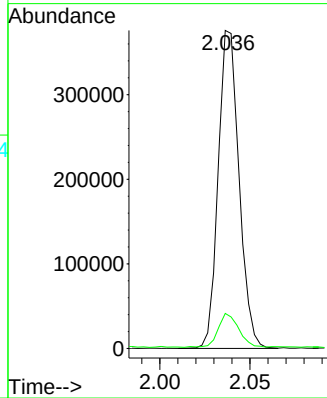
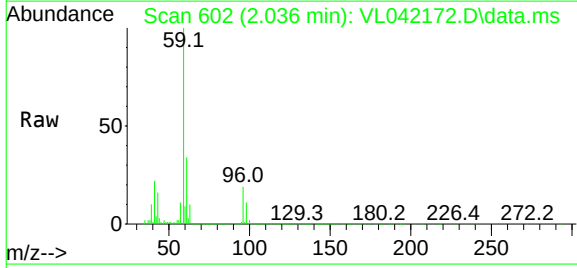
#17
tert-Butyl alcohol
Concen: 9.290 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 59 Resp: 302616
Ion Ratio Lower Upper
59 100
57 11.1 8.9 13.3

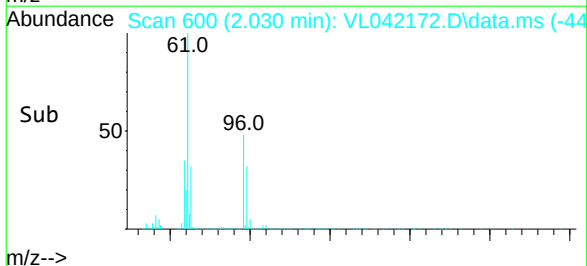
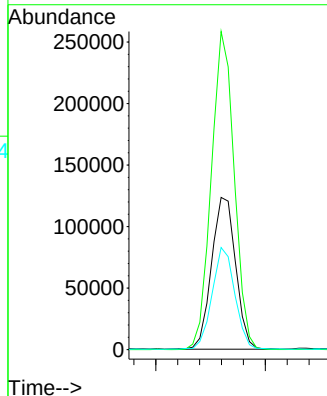
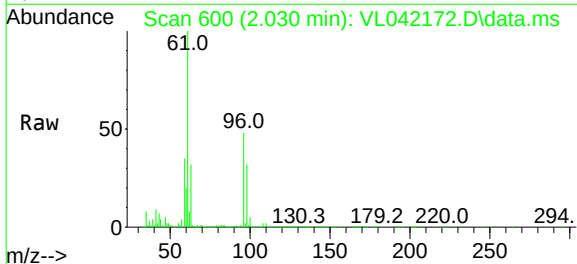
Manual Integrations
APPROVED

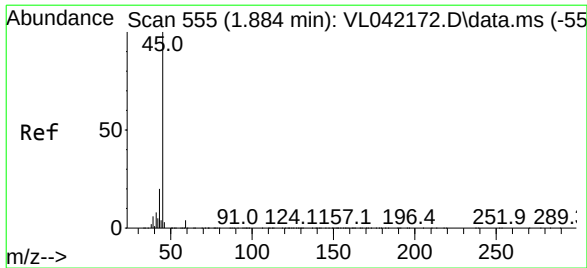
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 9.128 ppbv
RT: 2.030 min Scan# 600
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 96 Resp: 94236
Ion Ratio Lower Upper
96 100
61 209.5 167.6 251.4
98 66.9 53.5 80.3





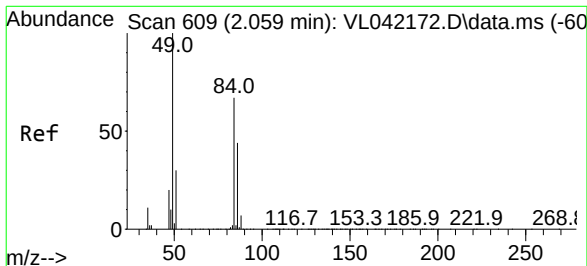
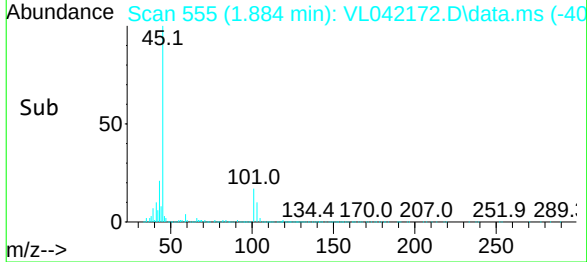
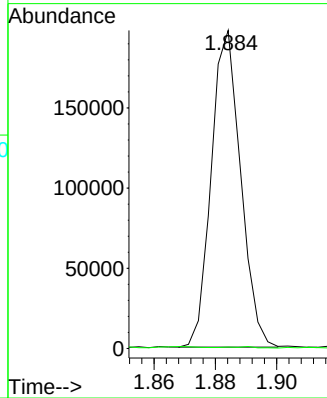
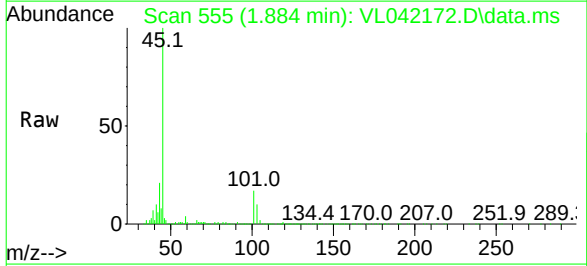
#19
Isopropyl Alcohol
Concen: 8.902 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 131359
Ion Ratio Lower Upper
45 100
58 46.1 36.9 55.3

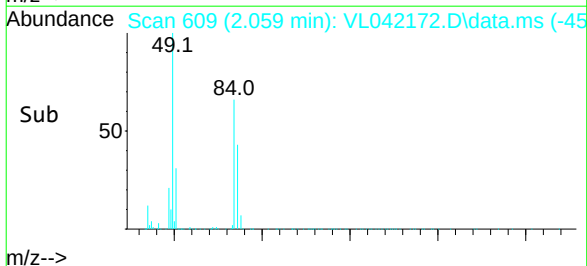
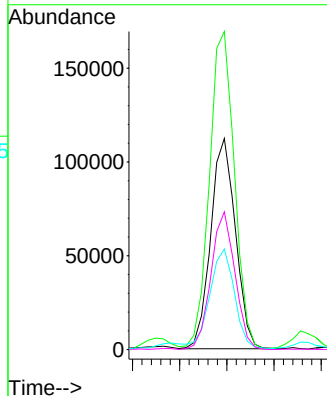
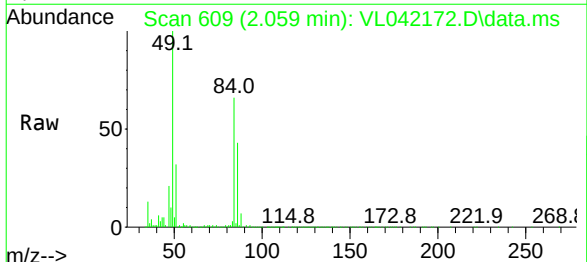
Manual Integrations
APPROVED

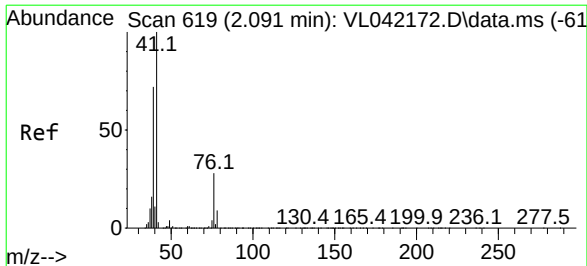
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 8.401 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 84 Resp: 81828
Ion Ratio Lower Upper
84 100
49 150.3 120.2 180.4
51 46.7 37.4 56.0
86 65.5 52.4 78.6





#21

Allyl Chloride

Concen: 9.141 ppbv

RT: 2.091 min Scan# 619

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

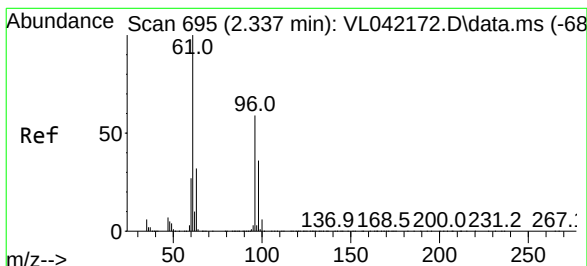
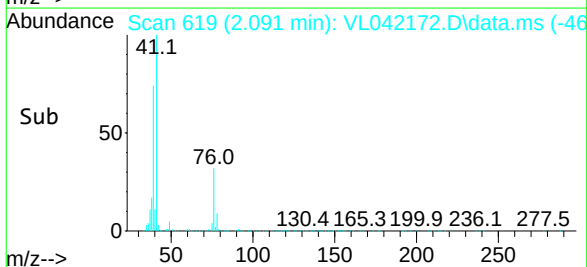
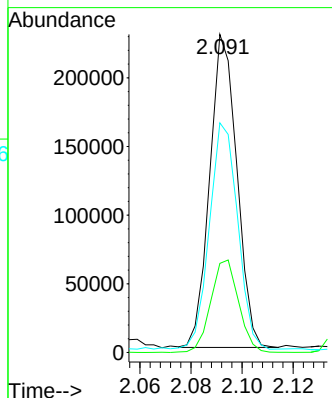
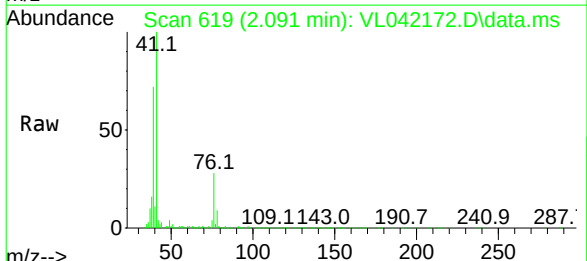
ClientSampleId :

VSTDICCC010

Tgt Ion:	41	Resp:	168602
Ion	Ratio	Lower	Upper
41	100		
76	30.1	24.1	36.1
39	76.4	61.1	91.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 9.149 ppbv

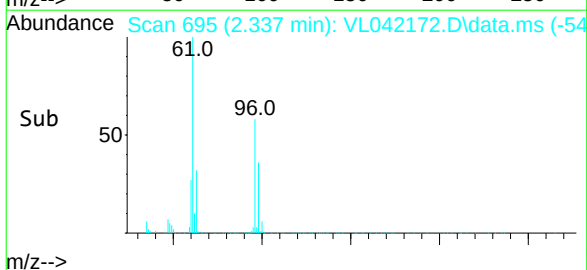
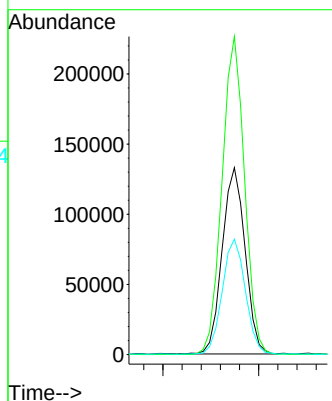
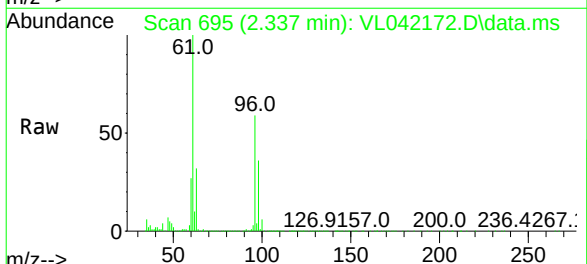
RT: 2.337 min Scan# 695

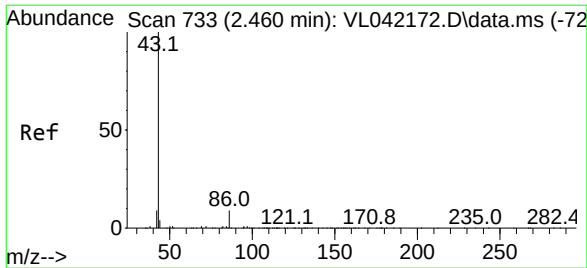
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

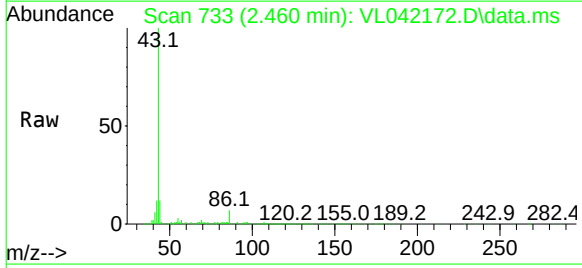
Tgt Ion:	96	Resp:	110371
Ion	Ratio	Lower	Upper
96	100		
61	170.7	136.6	204.8
98	61.8	49.4	74.2





#23
 Vinyl Acetate
 Concen: 8.563 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

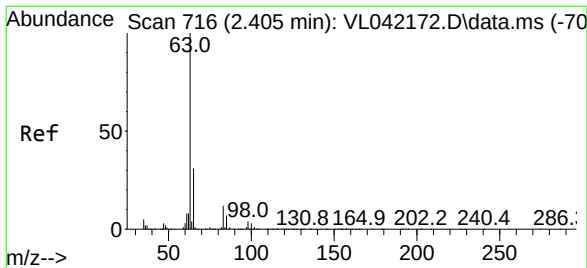
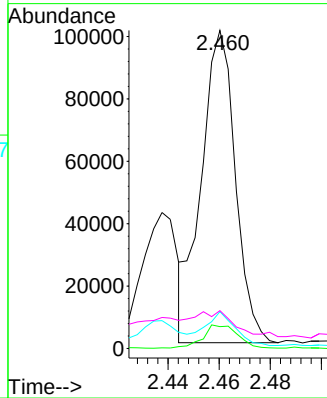
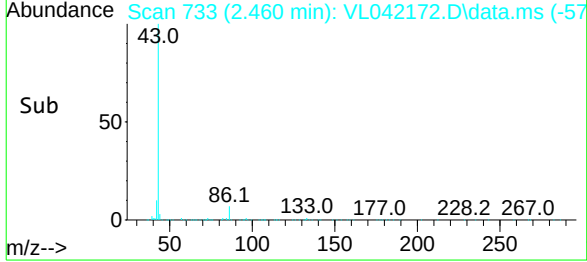
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



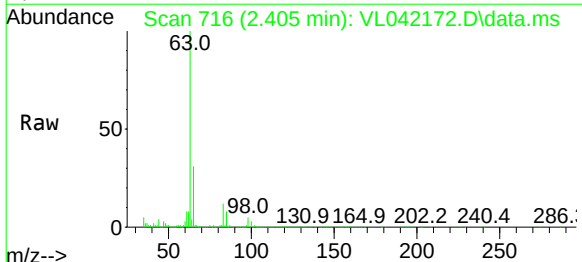
Tgt Ion: 43 Resp: 93080
 Ion Ratio Lower Upper
 43 100
 86 6.9 5.5 8.3
 42 10.8 8.6 13.0
 44 7.8 6.2 9.4

Manual Integrations APPROVED

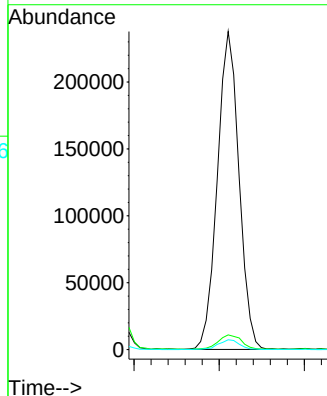
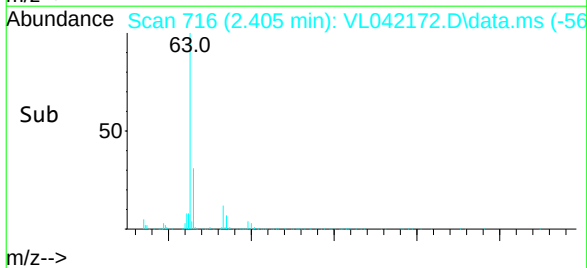
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

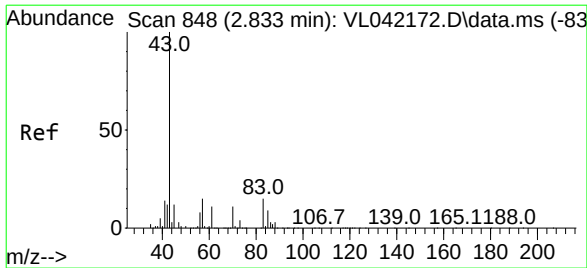


#24
 1,1-Dichloroethane
 Concen: 9.484 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26



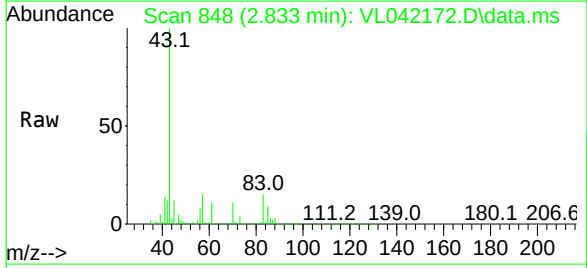
Tgt Ion: 63 Resp: 209753
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 3.1 1.6 4.7





#25
Ethyl Acetate
Concen: 9.524 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

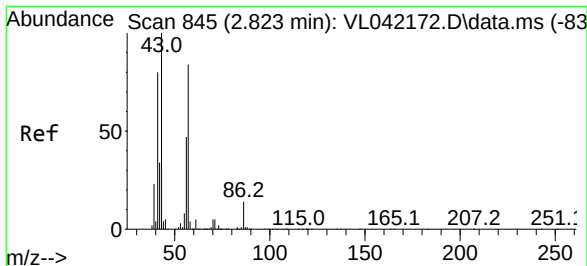
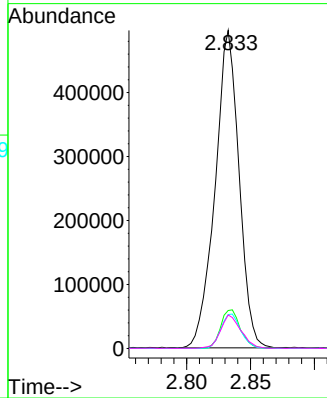
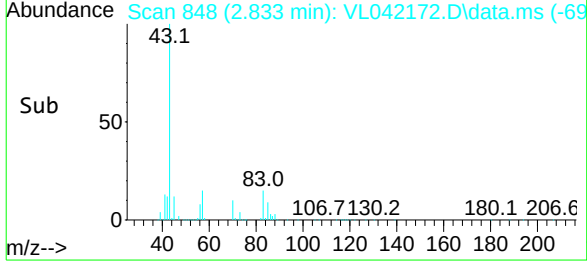
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



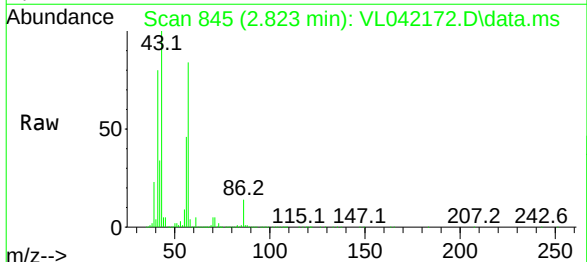
Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	9.1	7.3	10.9
70	9.0	7.2	10.8

Manual Integrations
APPROVED

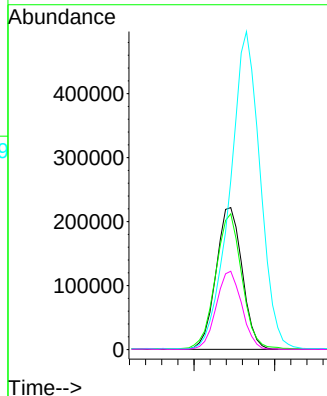
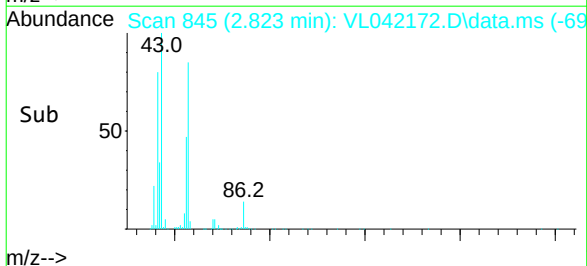
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

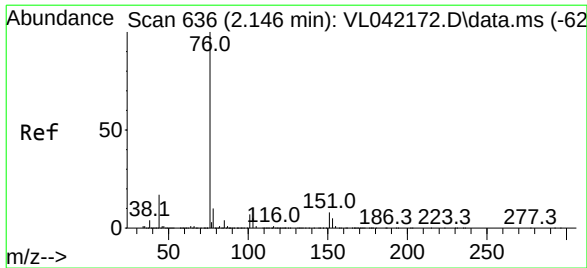


#26
Hexane
Concen: 9.510 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.7	76.6	114.8
43	259.8	207.8	311.8
56	54.5	43.6	65.4





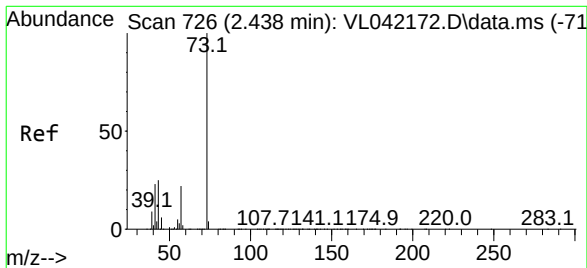
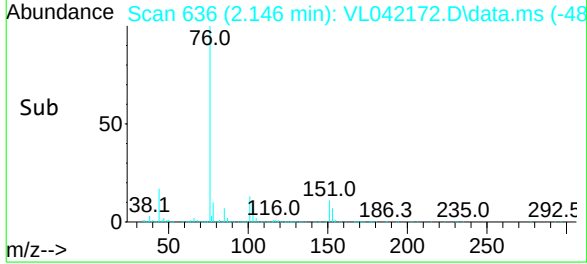
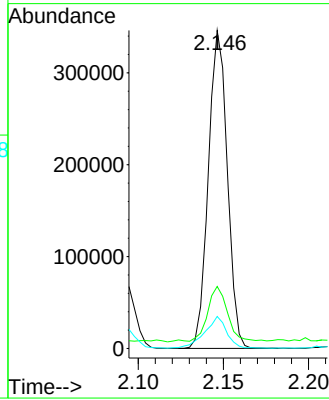
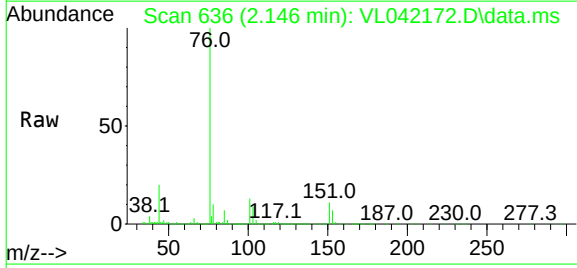
#27
Carbon Disulfide
Concen: 9.550 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 76 Resp: 268507
Ion Ratio Lower Upper
76 100
44 18.4 14.7 22.1
78 11.6 9.3 13.9

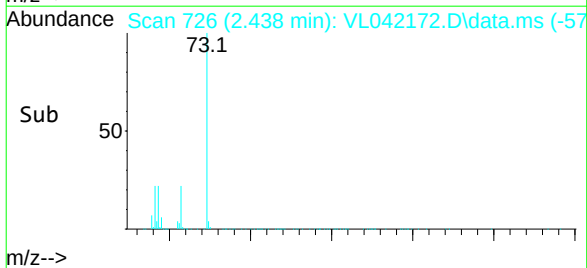
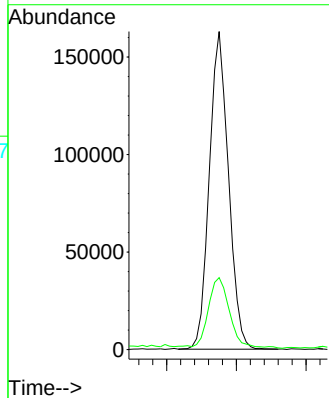
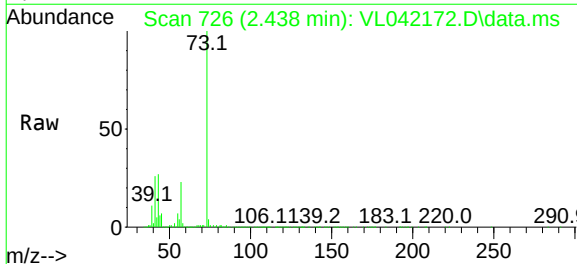
Manual Integrations
APPROVED

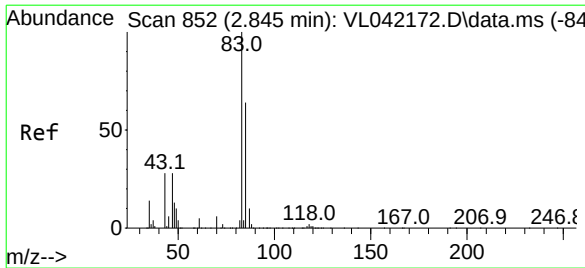
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 9.520 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 73 Resp: 155398
Ion Ratio Lower Upper
73 100
57 25.6 20.5 30.7





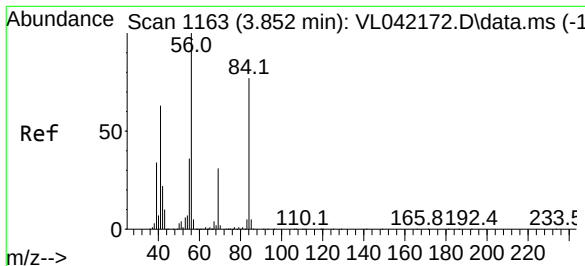
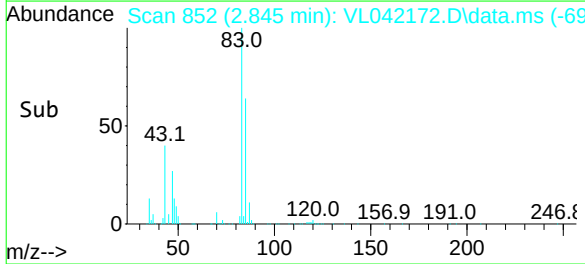
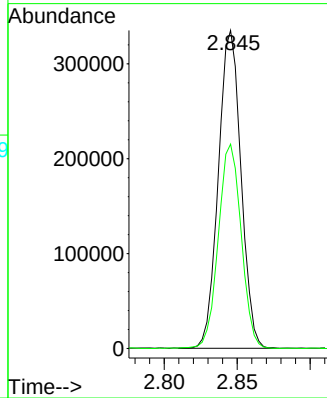
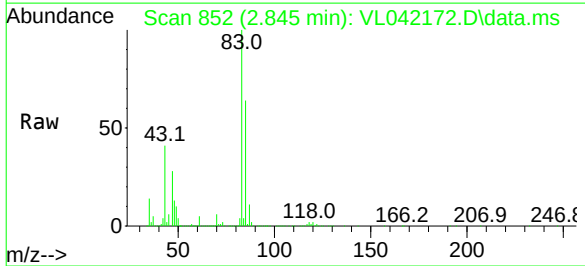
#29
Chloroform
Concen: 9.415 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 361264
Ion Ratio Lower Upper
83 100
85 64.3 51.4 77.2

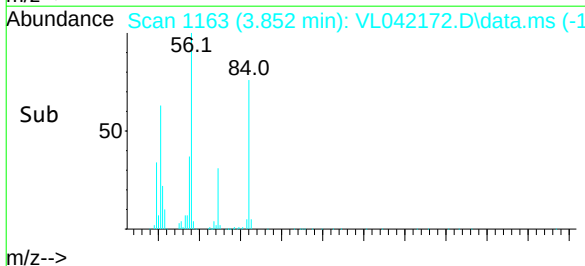
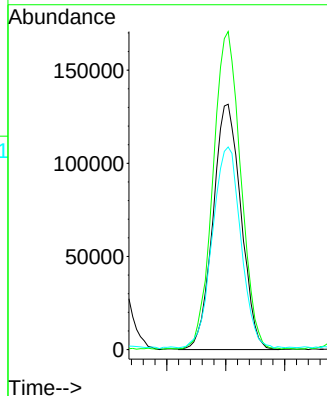
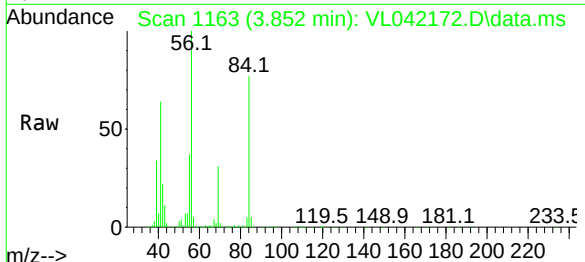
Manual Integrations
APPROVED

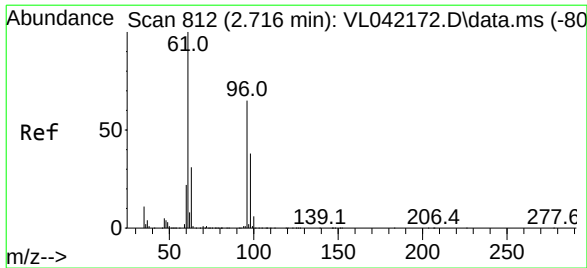
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#30
Cyclohexane
Concen: 9.537 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

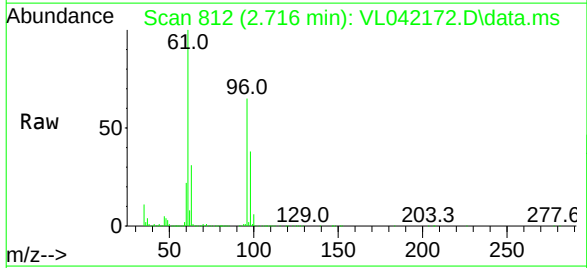
Tgt Ion: 84 Resp: 217215
Ion Ratio Lower Upper
84 100
56 128.5 102.8 154.2
41 83.1 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.634 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

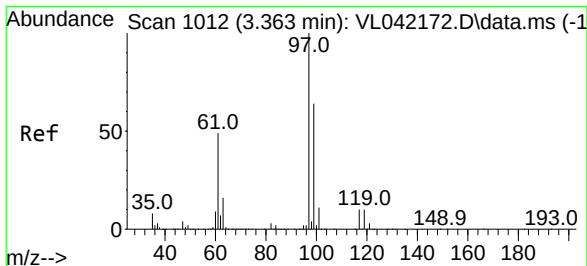
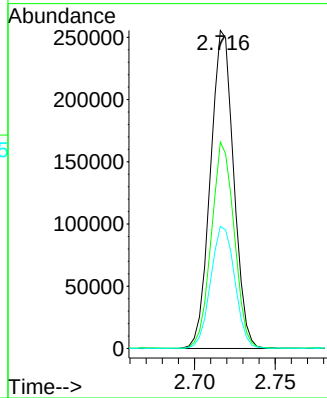
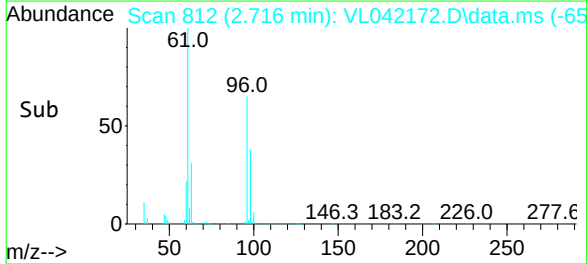
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



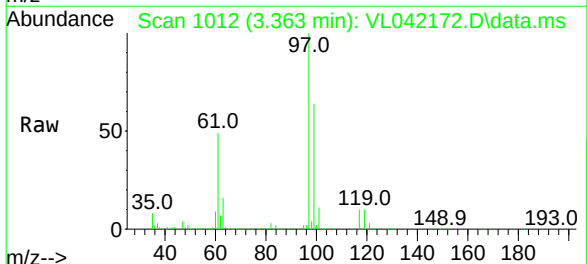
Tgt Ion: 61 Resp: 256425
 Ion Ratio Lower Upper
 61 100
 96 64.8 51.8 77.8
 98 38.3 30.6 46.0

Manual Integrations
 APPROVED

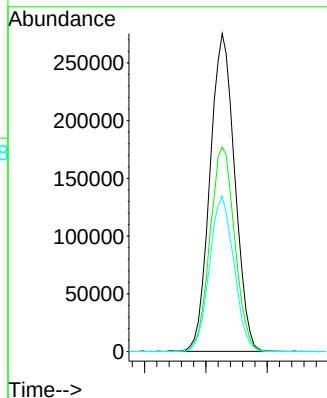
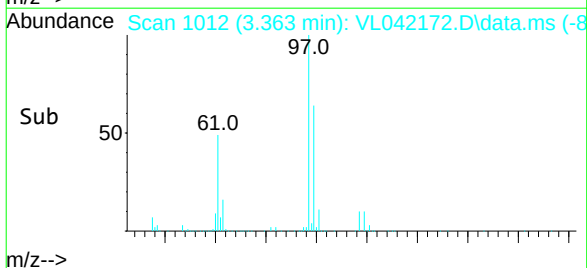
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

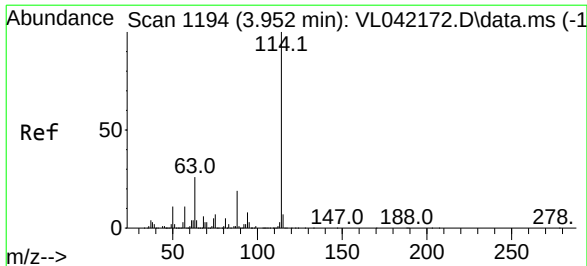


#32
 1,1,1-Trichloroethane
 Concen: 8.784 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26



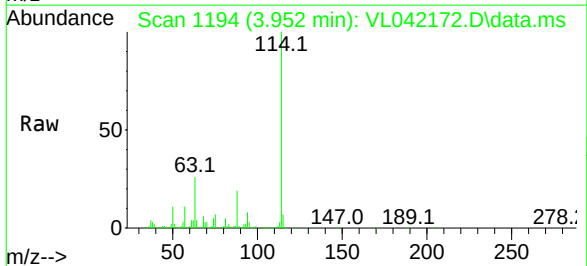
Tgt Ion: 97 Resp: 385628
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.5 77.3
 61 48.4 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

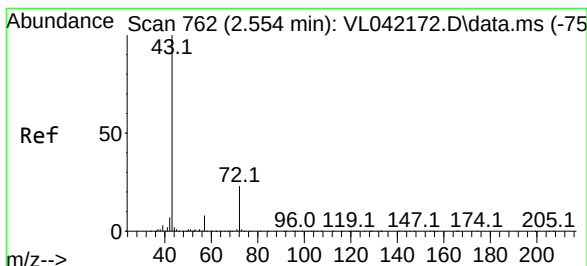
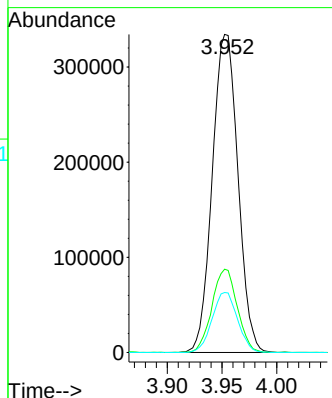
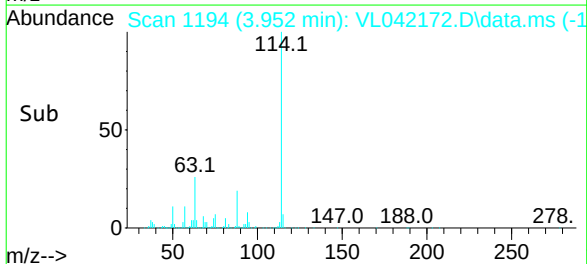
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 114 Resp: 545068
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.7 15.0 22.4

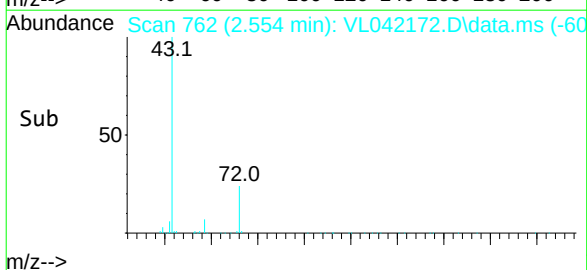
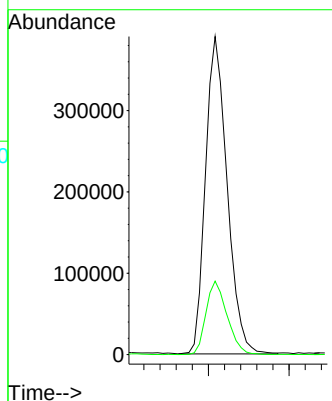
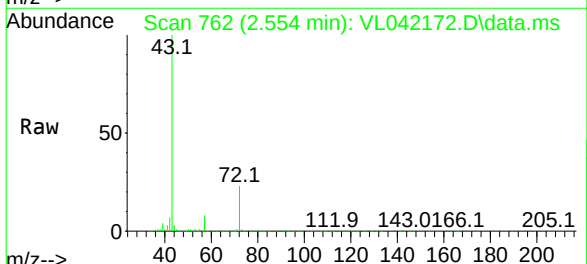
Manual Integrations
APPROVED

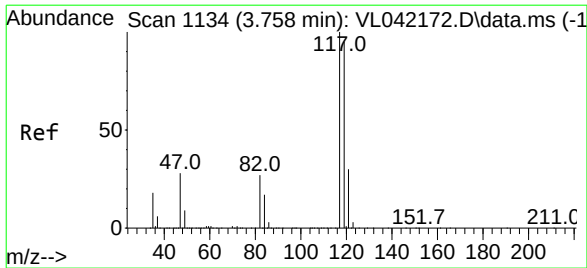
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#34
2-Butanone
Concen: 9.203 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 363735
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 9.129 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

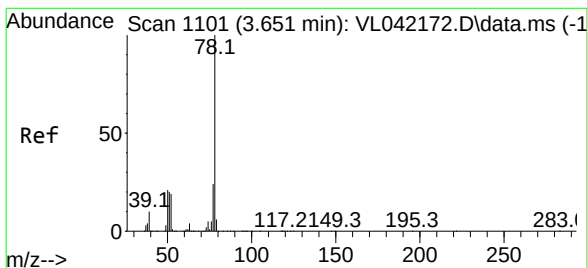
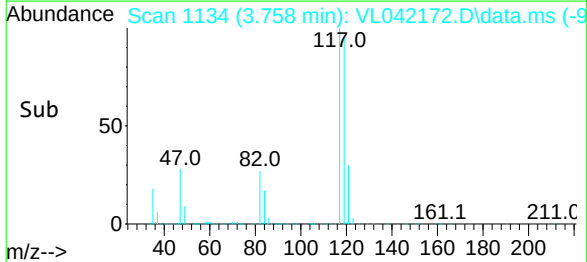
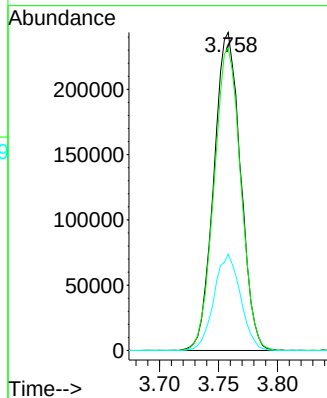
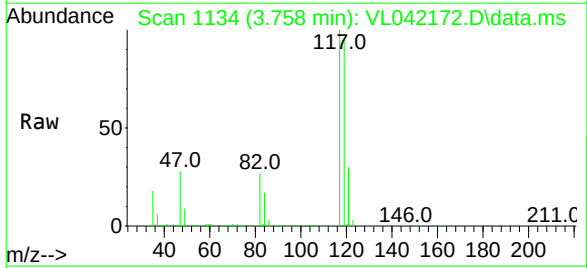
VSTDICCC010

Tgt Ion:	117	Resp:	382925
Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.2	114.2
121	30.3	24.2	36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#36

Benzene

Concen: 9.417 ppbv

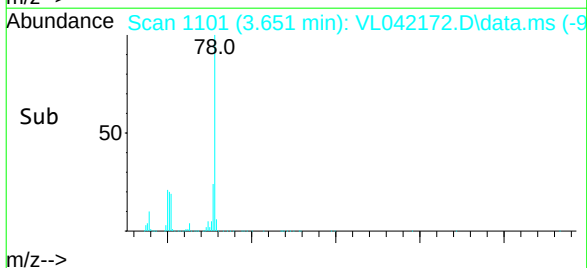
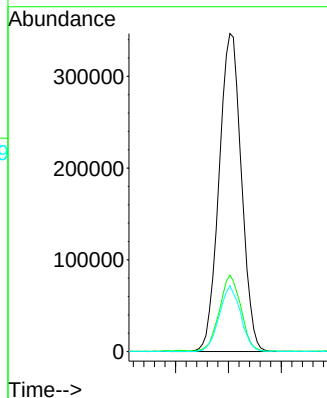
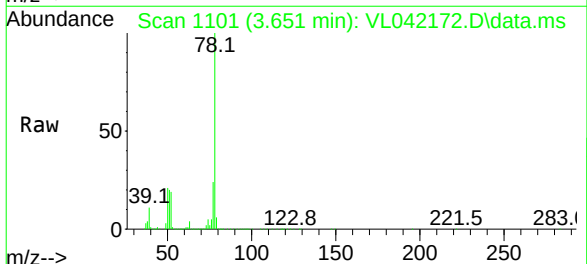
RT: 3.651 min Scan# 1101

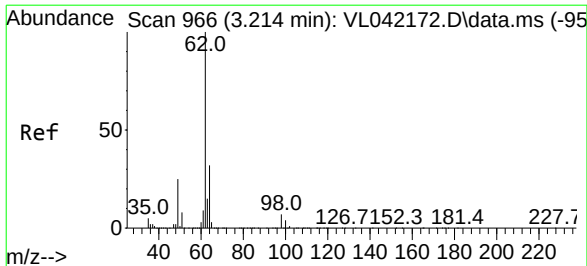
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

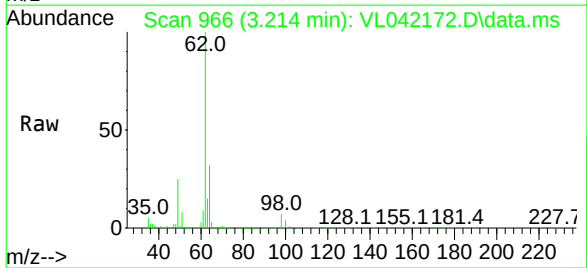
Tgt Ion:	78	Resp:	508860
Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7
50	20.7	16.6	24.8





#37
1,2-Dichloroethane
Concen: 9.469 ppbv
RT: 3.214 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

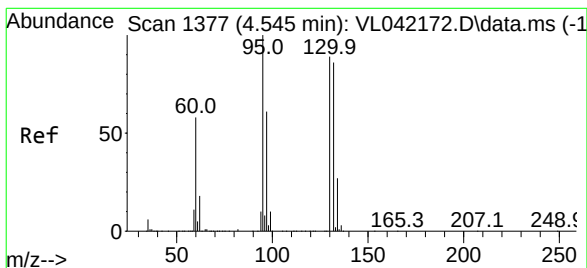
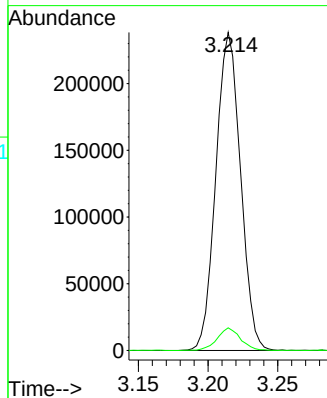
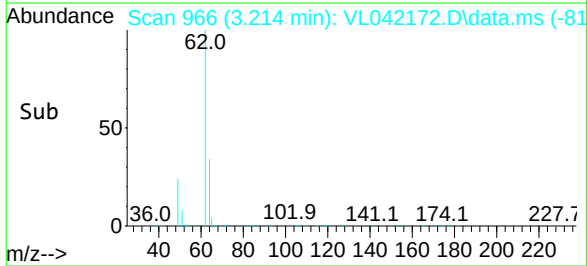
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



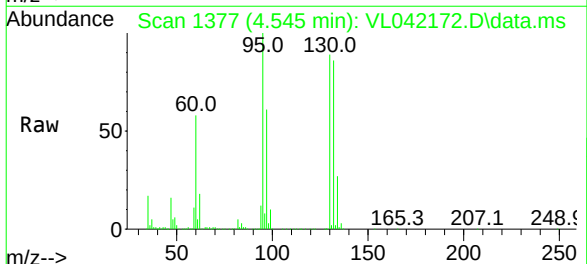
Tgt Ion: 62 Resp: 292937
Ion Ratio Lower Upper
62 100
98 6.8 5.4 8.2

Manual Integrations
APPROVED

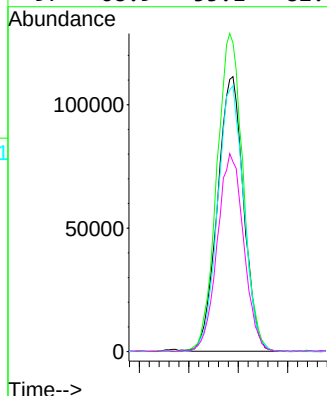
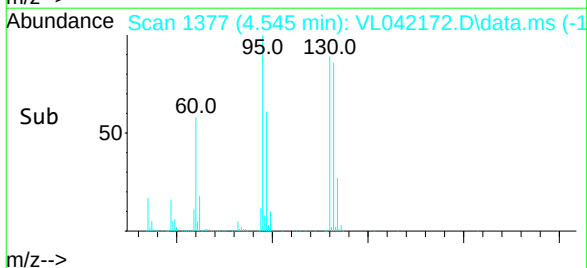
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

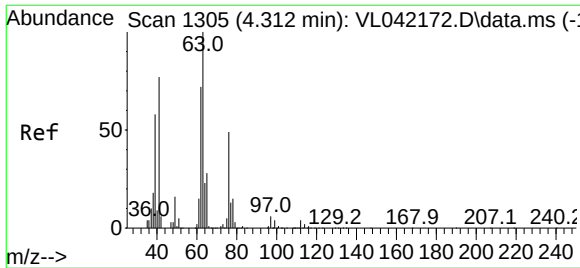


#38
Trichloroethene
Concen: 9.045 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



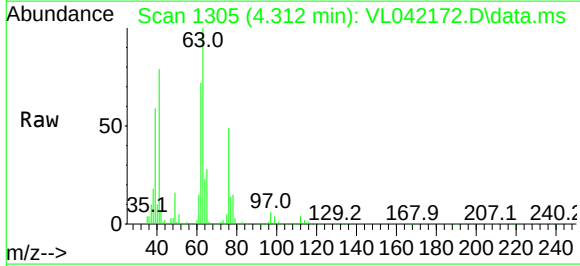
Tgt Ion:130 Resp: 204027
Ion Ratio Lower Upper
130 100
95 112.3 89.8 134.8
132 96.8 77.4 116.2
97 68.9 55.1 82.7





#39
 1,2-Dichloropropane
 Concen: 9.321 ppbv
 RT: 4.312 min Scan# 1305
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26

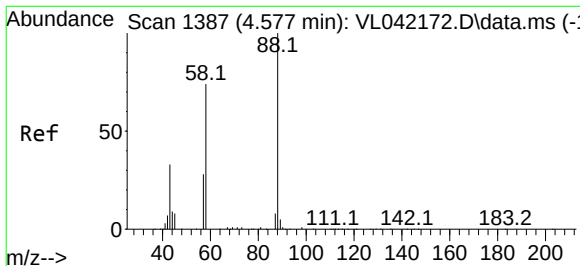
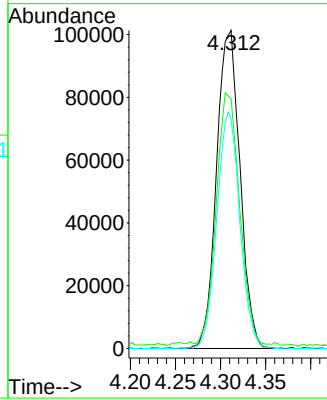
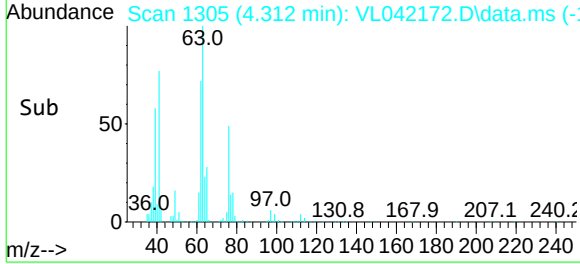
Instrument : MSVOA_1
 ClientSampleId : VSTDICCC010



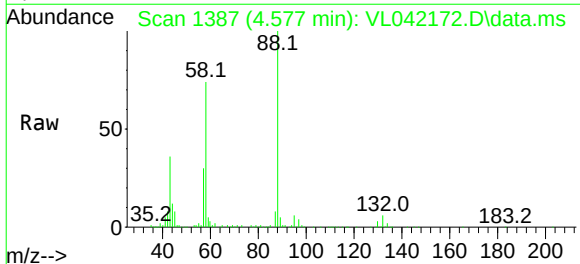
Tgt Ion: 63 Resp: 183439
 Ion Ratio Lower Upper
 63 100
 41 77.1 61.7 92.5
 62 72.0 57.6 86.4

Manual Integrations
 APPROVED

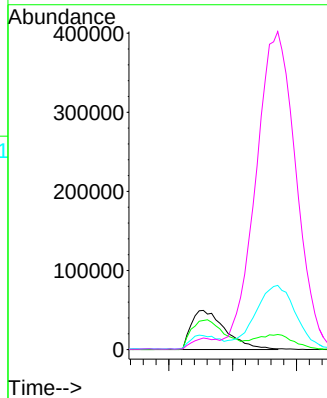
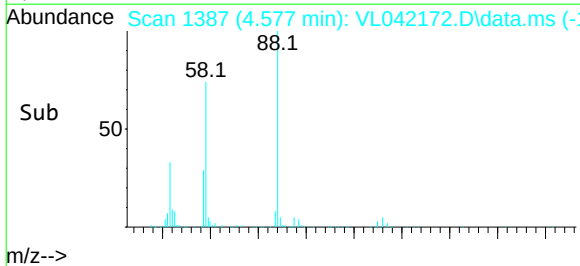
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

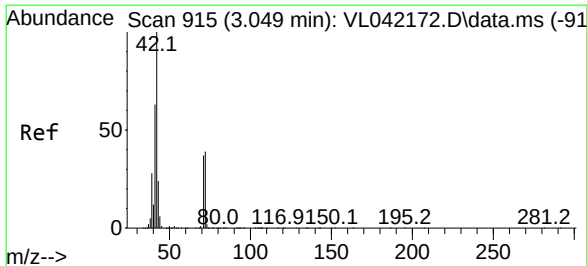


#40
 1,4-Dioxane
 Concen: 9.042 ppbv
 RT: 4.577 min Scan# 1387
 Delta R.T. 0.000 min
 Lab File: VL042172.D
 Acq: 27 Mar 2025 08:26



Tgt Ion: 88 Resp: 92327
 Ion Ratio Lower Upper
 88 100
 58 78.4 62.7 94.1
 43 28.7 23.0 34.4
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 9.643 ppbv

RT: 3.049 min Scan# 915

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

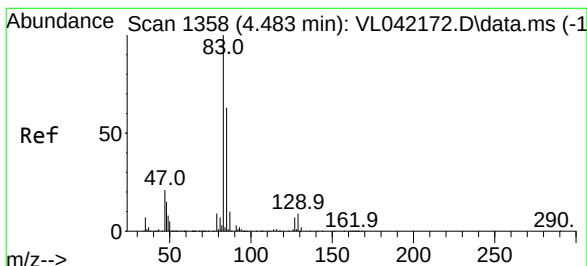
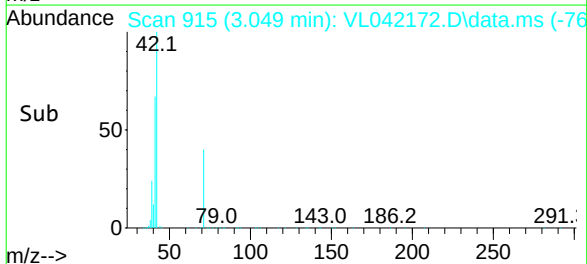
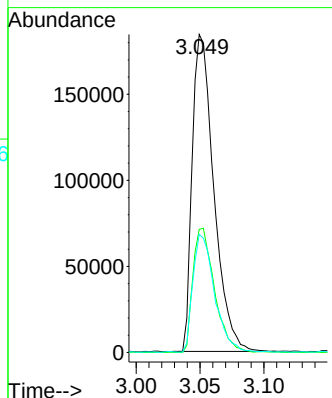
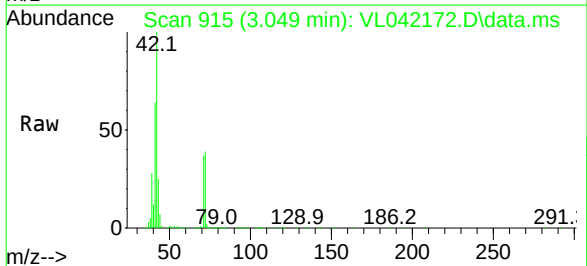
ClientSampleId :

VSTDICCC010

Tgt Ion:	42	Resp:	216851
Ion	Ratio	Lower	Upper
42	100		
72	39.2	31.4	47.0
71	37.8	30.2	45.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 9.822 ppbv

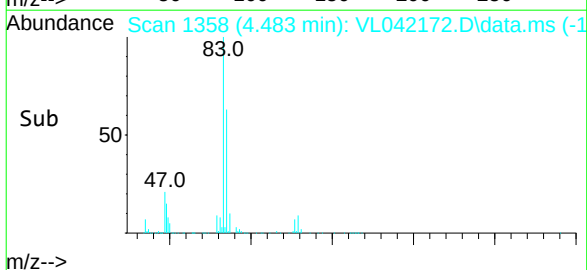
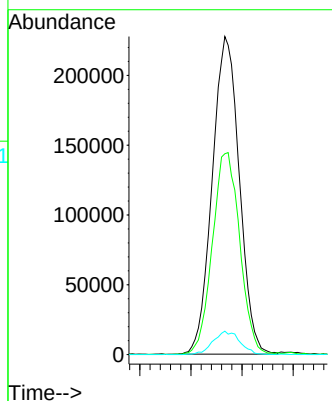
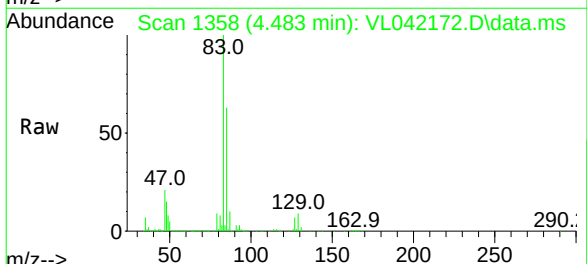
RT: 4.483 min Scan# 1358

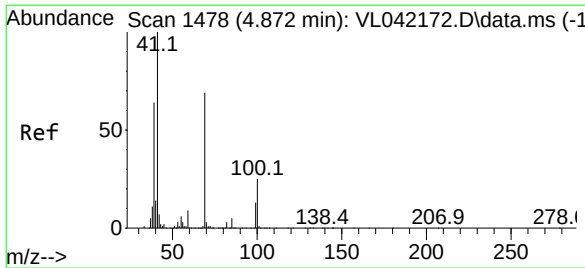
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Tgt Ion:	83	Resp:	418887
Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7
127	7.4	5.9	8.9





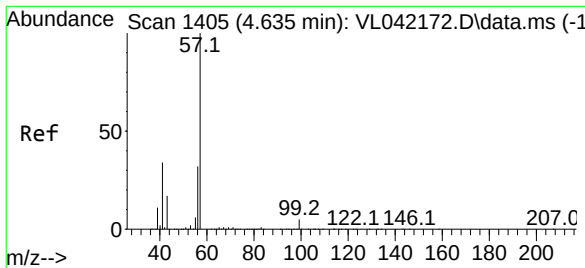
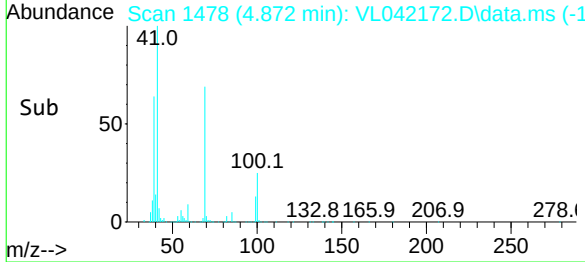
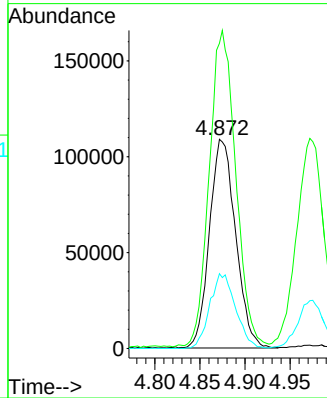
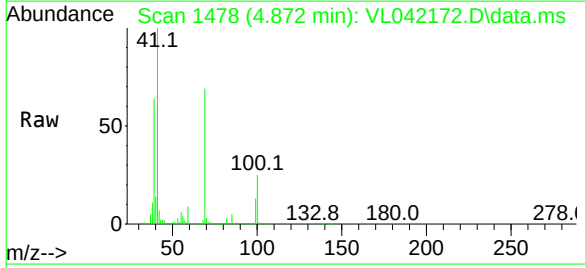
#43
Methyl Methacrylate
Concen: 9.618 ppbv
RT: 4.872 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 219399
Ion Ratio Lower Upper
69 100
41 154.7 123.8 185.6
100 35.5 28.4 42.6

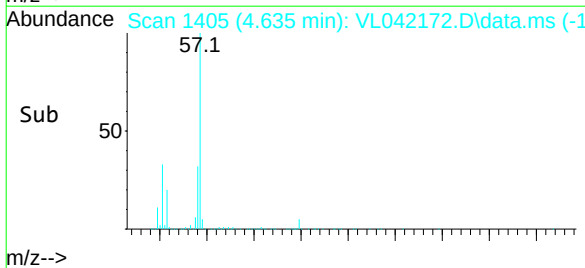
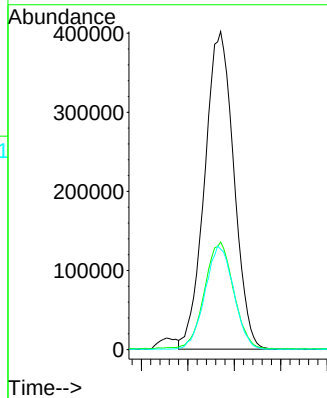
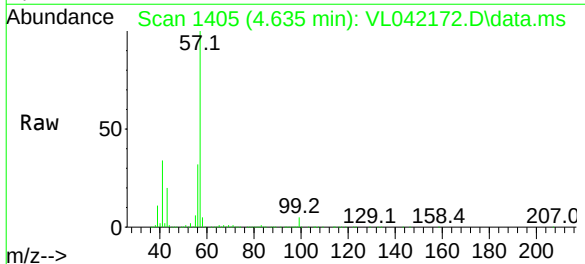
Manual Integrations
APPROVED

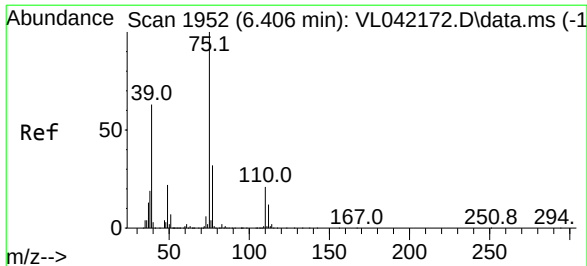
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 9.600 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 57 Resp: 876649
Ion Ratio Lower Upper
57 100
41 33.5 26.8 40.2
56 32.0 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 9.746 ppbv

RT: 6.406 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 75 Resp: 239180

Ion Ratio Lower Upper

75 100

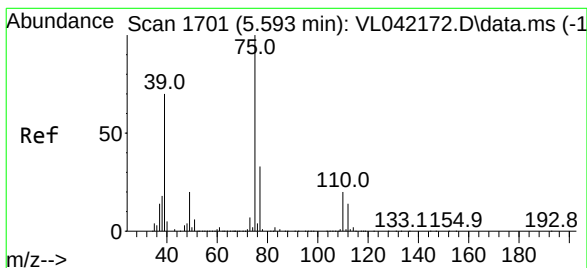
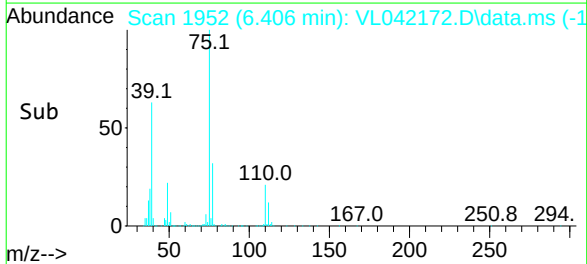
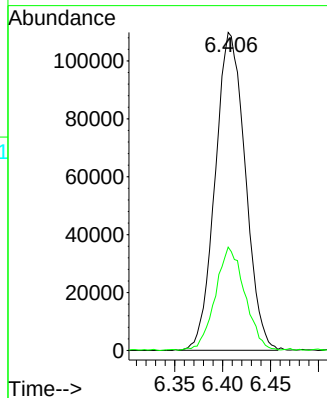
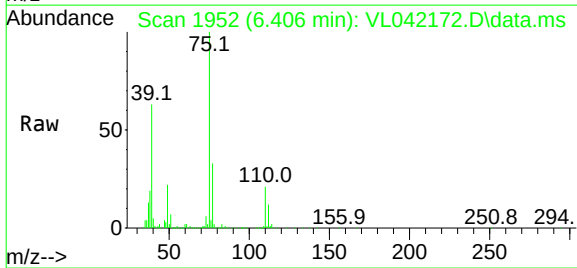
77 32.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#46

cis-1,3-Dichloropropene

Concen: 9.973 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

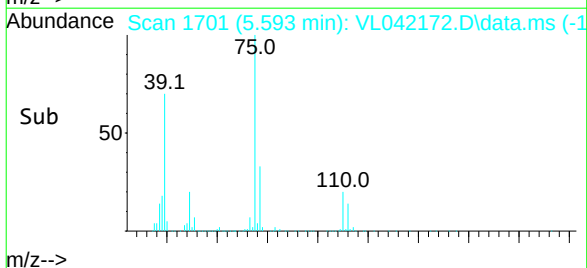
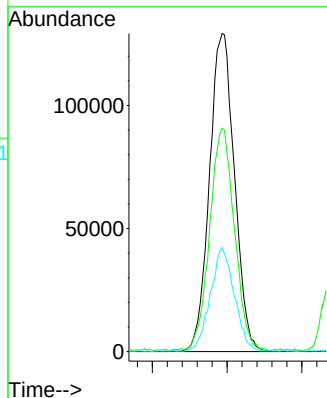
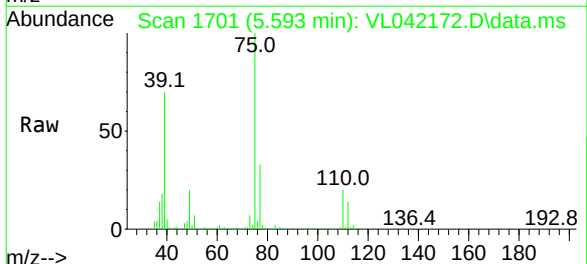
Tgt Ion: 75 Resp: 300021

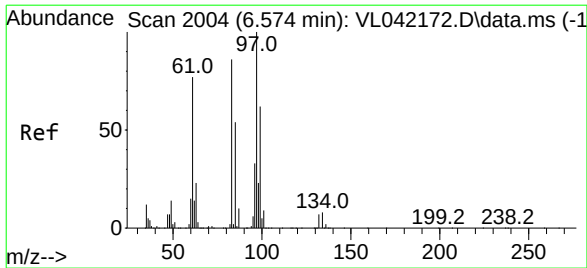
Ion Ratio Lower Upper

75 100

39 69.7 55.8 83.6

77 32.5 26.0 39.0





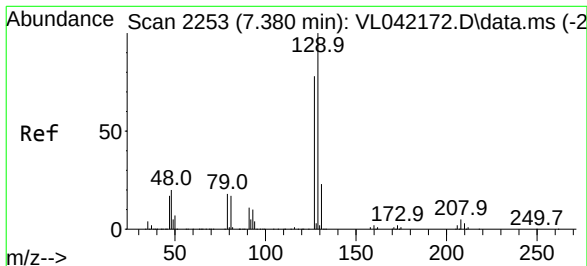
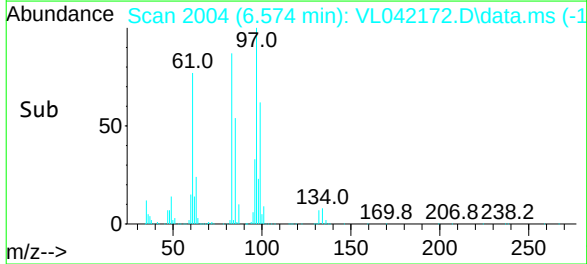
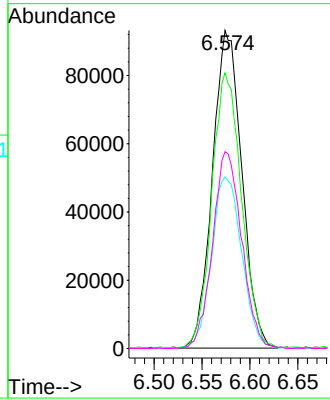
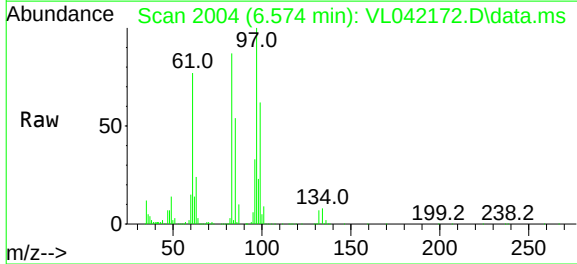
#47
1,1,2-Trichloroethane
Concen: 9.526 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.5	69.2	103.8
85	53.9	43.1	64.7
99	61.8	49.4	74.2

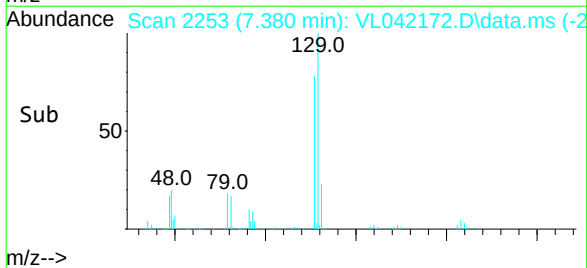
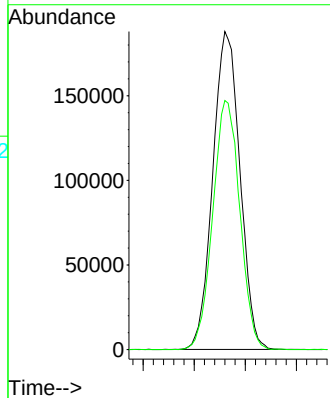
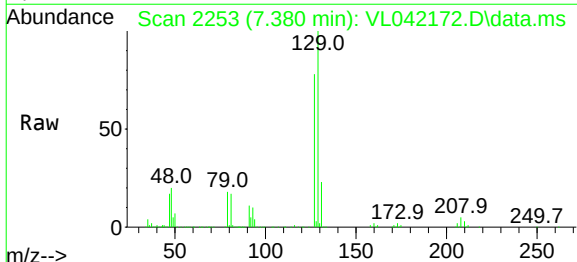
Manual Integrations
APPROVED

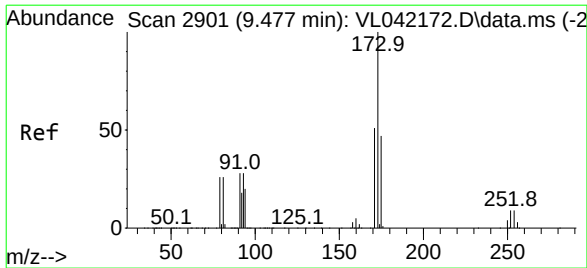
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 9.828 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2





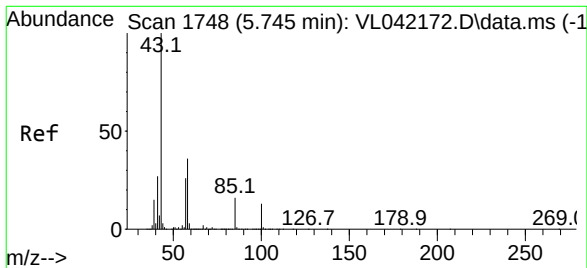
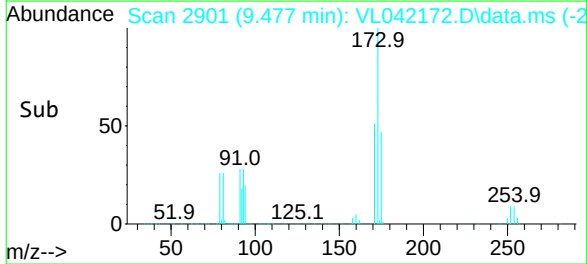
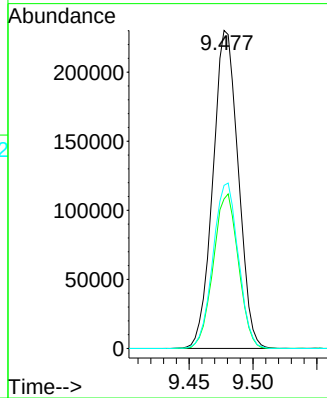
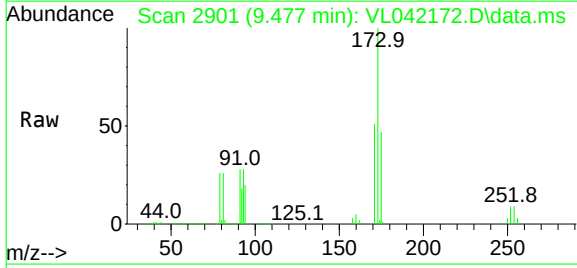
#49
Bromoform
Concen: 10.021 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 173 Resp: 317189
Ion Ratio Lower Upper
173 100
175 48.2 38.6 57.8
171 52.2 41.8 62.6

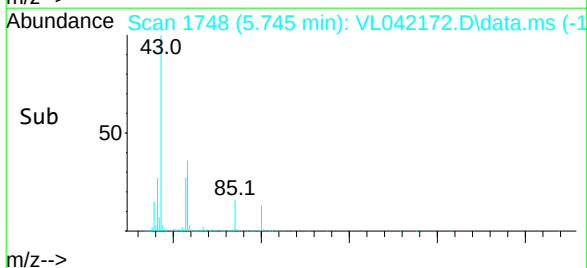
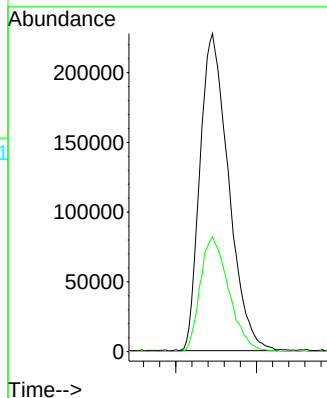
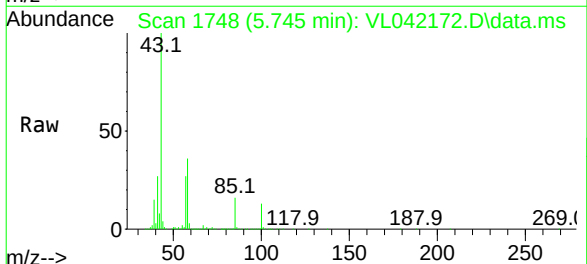
Manual Integrations
APPROVED

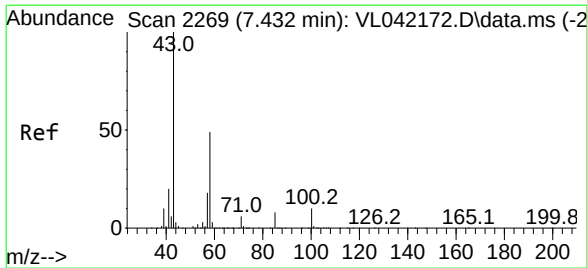
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 8.934 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 43 Resp: 559800
Ion Ratio Lower Upper
43 100
58 36.3 29.0 43.6





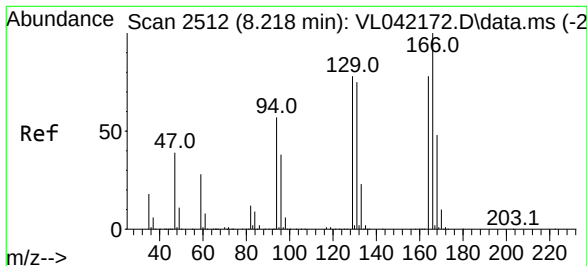
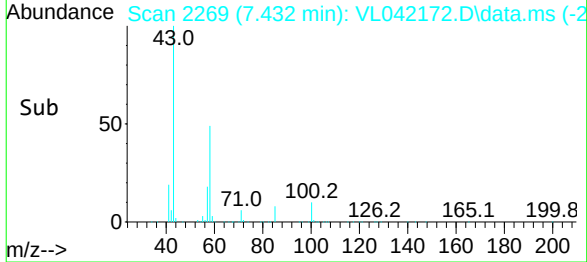
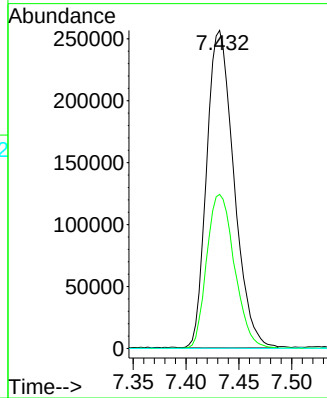
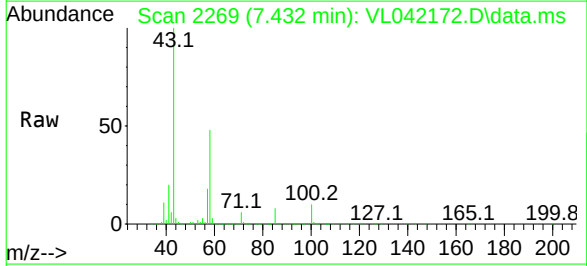
#51
2-Hexanone
Concen: 8.848 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 460013
Ion Ratio Lower Upper
43 100
58 49.6 39.7 59.5
98 0.1 0.1 0.1

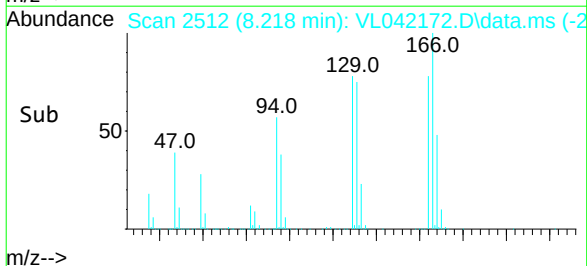
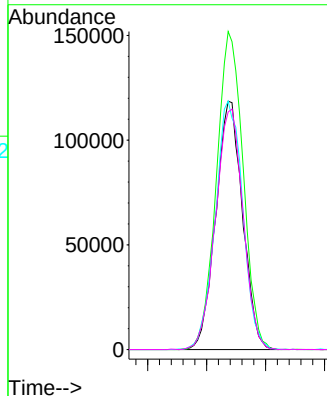
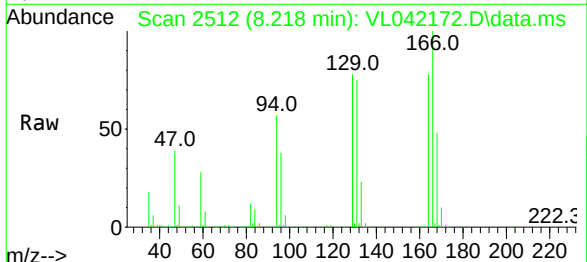
Manual Integrations
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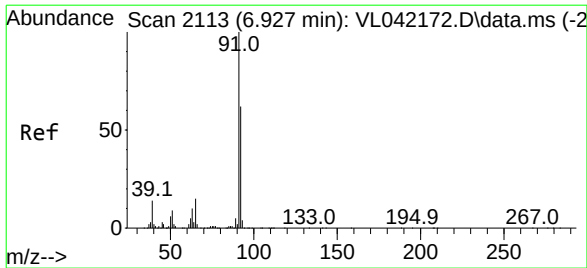
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#52
Tetrachloroethene
Concen: 8.722 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:164 Resp: 186912
Ion Ratio Lower Upper
164 100
166 128.1 102.5 153.7
129 99.8 79.8 119.8
131 95.7 76.6 114.8





#53

Toluene

Concen: 9.576 ppbv

RT: 6.927 min Scan# 2113

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 613378

Ion Ratio Lower Upper

91 100

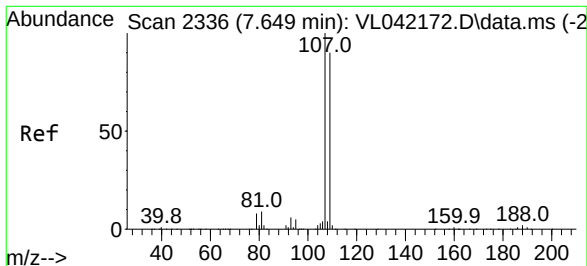
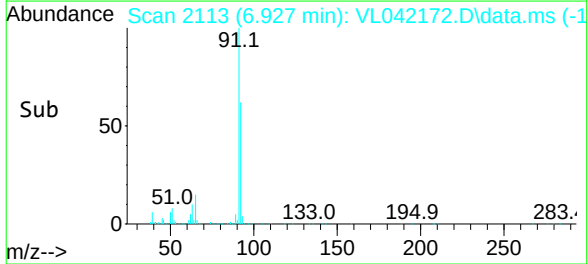
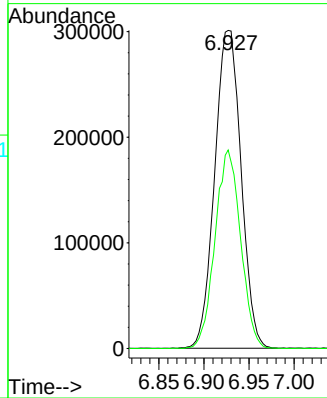
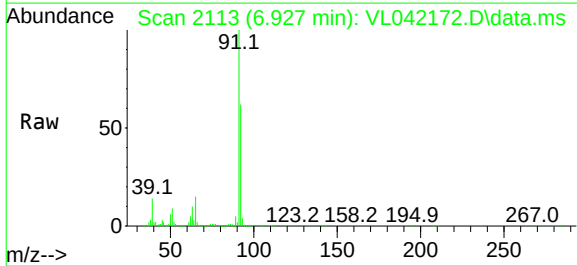
92 60.5 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 9.536 ppbv

RT: 7.649 min Scan# 2336

Delta R.T. 0.000 min

Lab File: VL042172.D

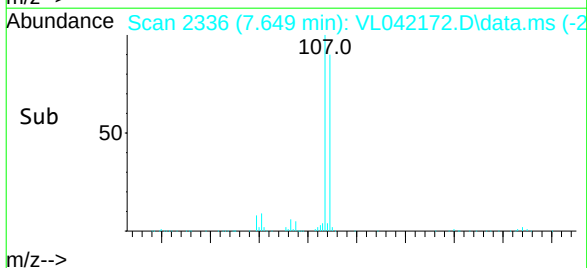
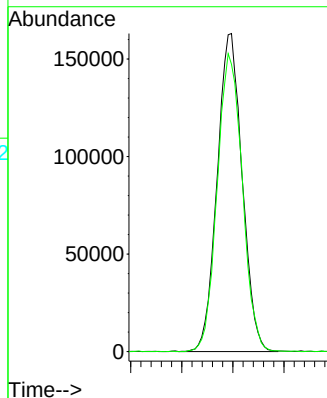
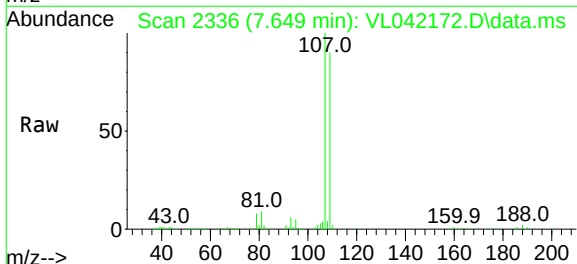
Acq: 27 Mar 2025 08:26

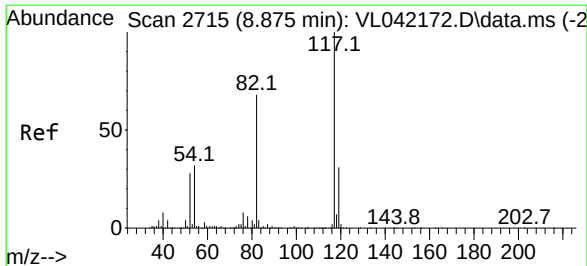
Tgt Ion:107 Resp: 276797

Ion Ratio Lower Upper

107 100

109 90.3 72.2 108.4





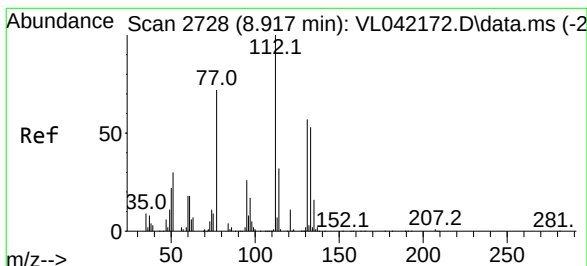
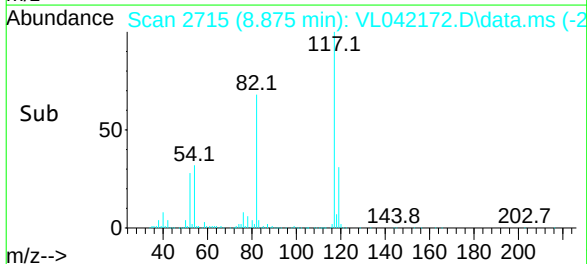
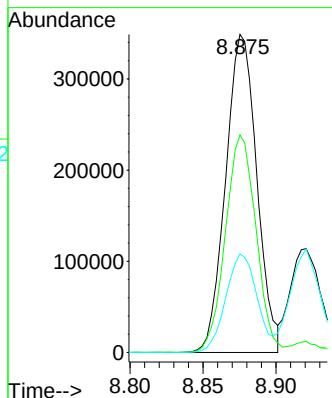
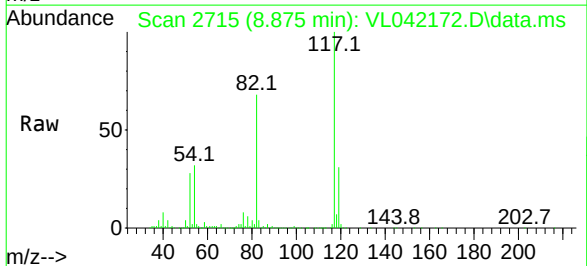
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 519536
Ion Ratio Lower Upper
117 100
82 69.7 55.8 83.6
119 31.9 25.5 38.3

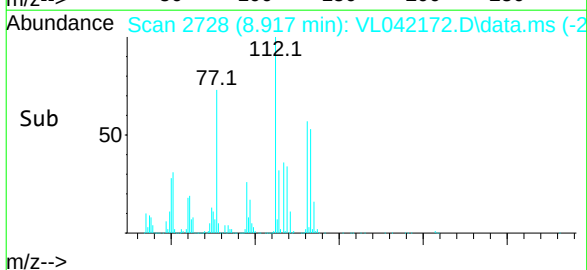
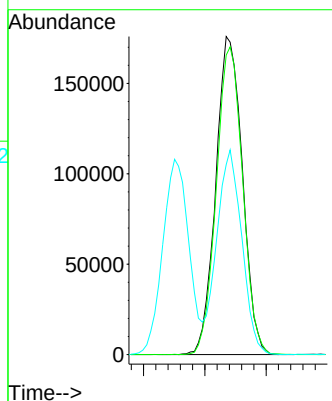
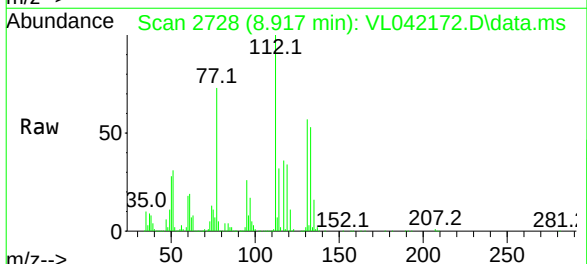
Manual Integrations
APPROVED

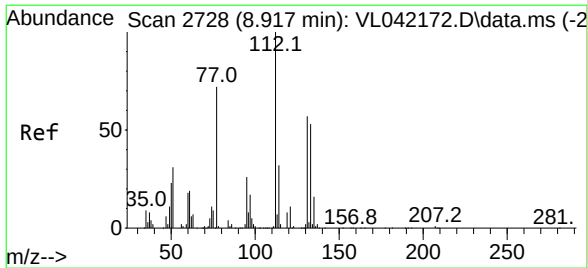
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.268 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

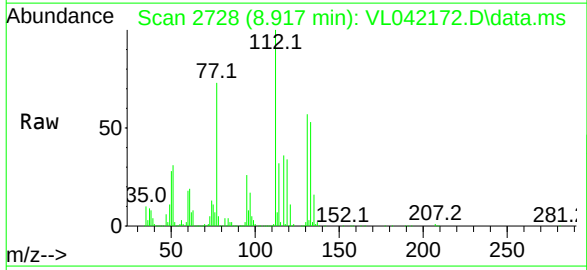
Tgt Ion:131 Resp: 265037
Ion Ratio Lower Upper
131 100
133 95.7 76.6 114.8
119 62.2 49.8 74.6





#57
Chlorobenzene
Concen: 9.223 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

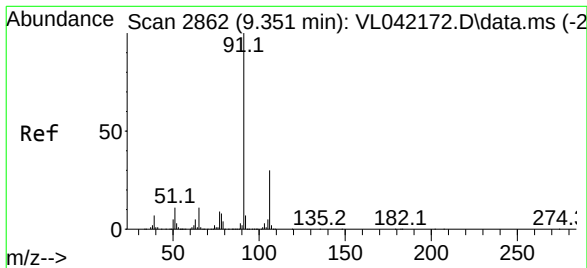
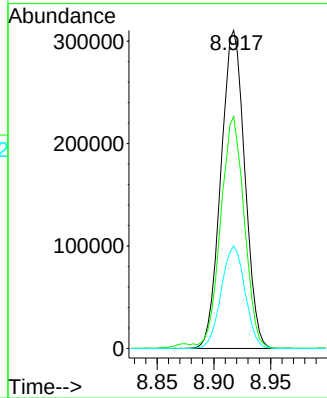
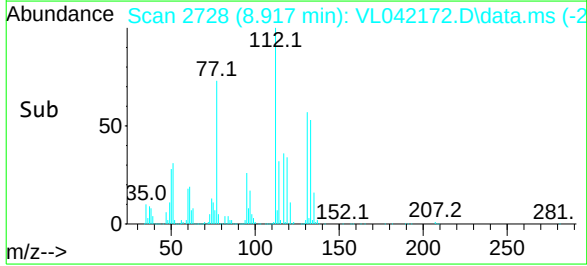
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 112 Resp: 454511
Ion Ratio Lower Upper
112 100
77 72.7 58.2 87.2
114 32.3 29.1 35.5

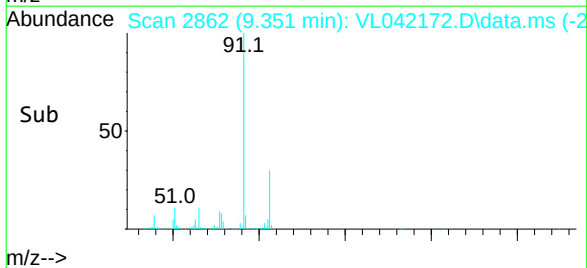
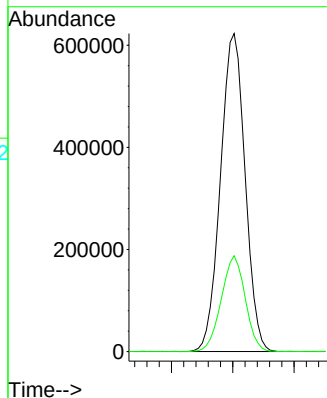
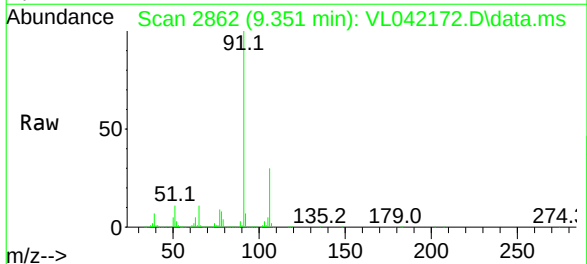
Manual Integrations APPROVED

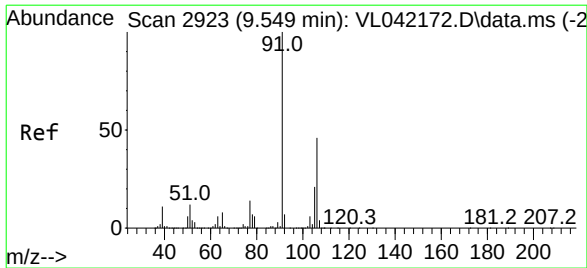
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 9.406 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 868003
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.2





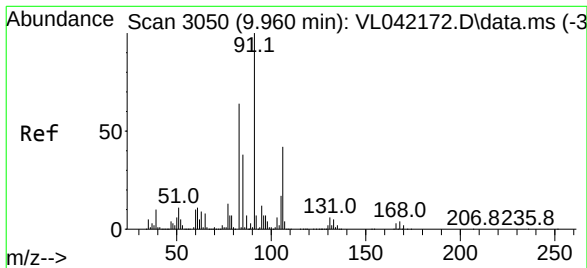
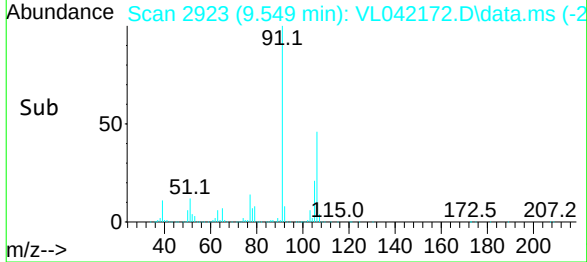
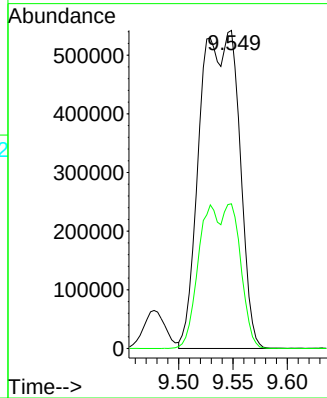
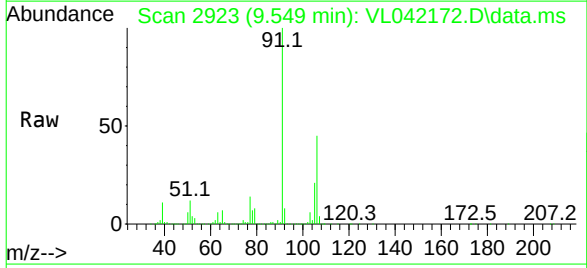
#59
m/p-Xylene
Concen: 18.607 ppbv m
RT: 9.549 min Scan# 2923
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 1372806
Ion Ratio Lower Upper
91 100
106 45.5 36.4 54.6

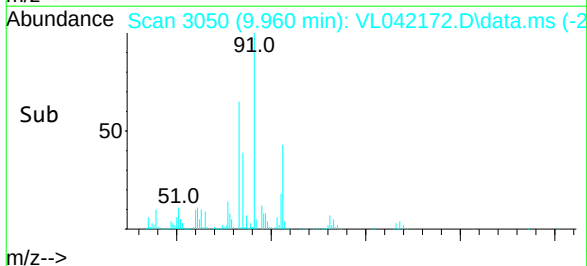
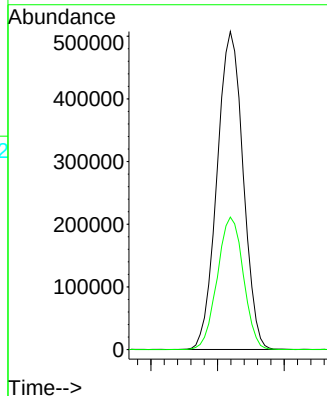
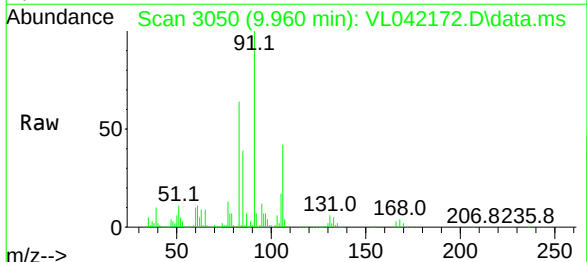
Manual Integrations
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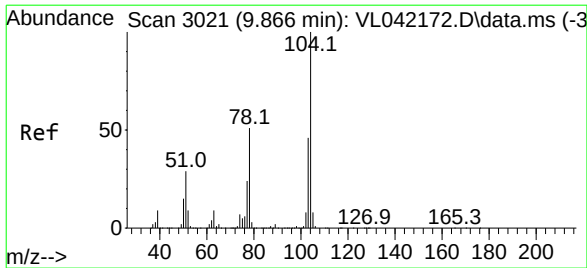
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#60
o-Xylene
Concen: 9.340 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion: 91 Resp: 689933
Ion Ratio Lower Upper
91 100
106 41.7 20.8 62.5





#61

Styrene

Concen: 9.706 ppbv

RT: 9.866 min Scan# 3021

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

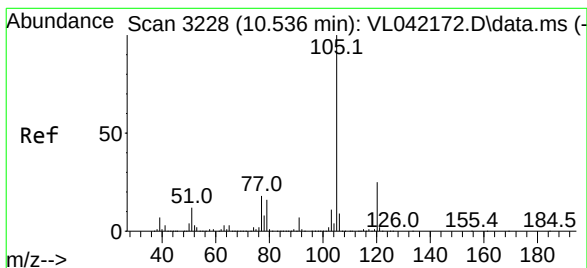
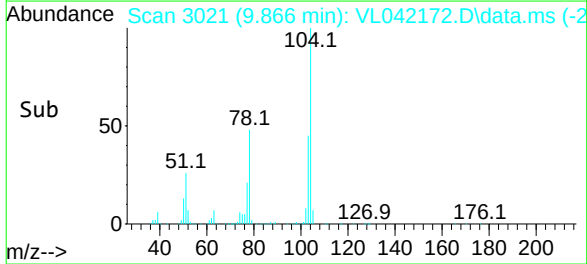
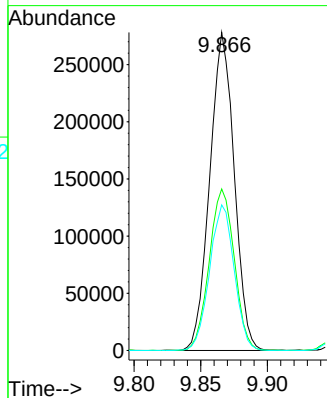
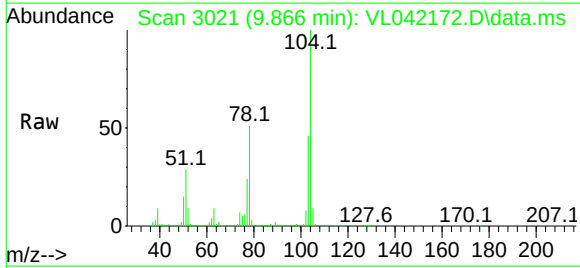
VSTDICCC010

Tgt Ion:	104	Resp:	354697
Ion	Ratio	Lower	Upper
104	100		
78	52.2	41.8	62.6
103	46.2	37.0	55.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 9.227 ppbv

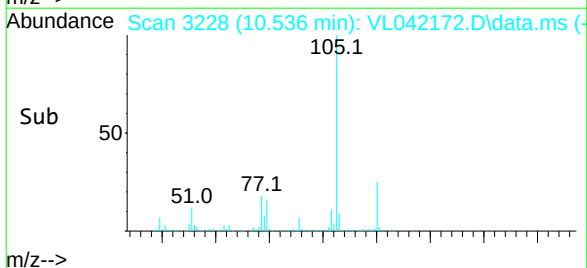
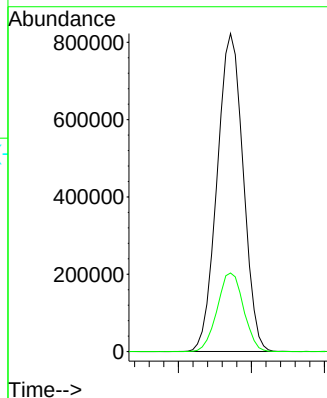
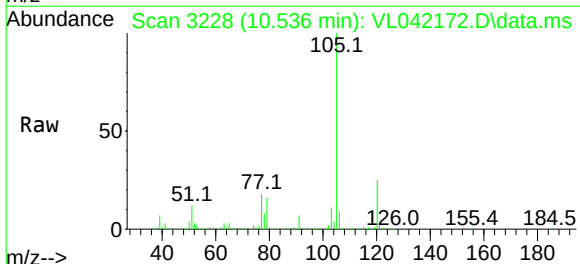
RT: 10.536 min Scan# 3228

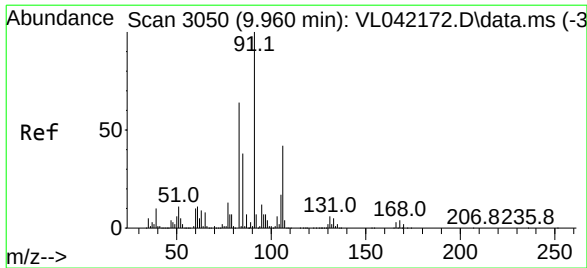
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

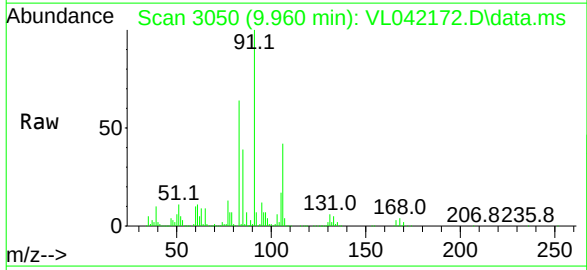
Tgt Ion:	105	Resp:	1019255
Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.9	29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 9.210 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

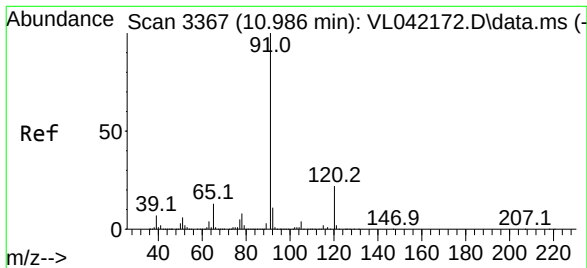
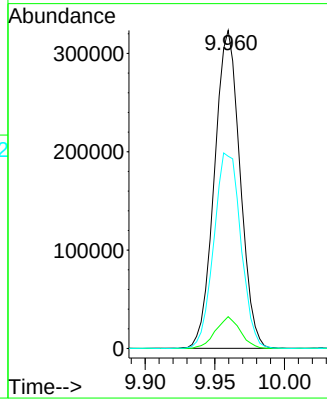
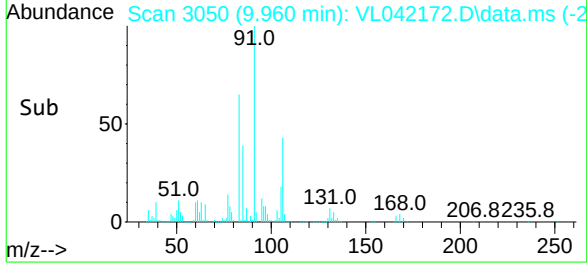
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



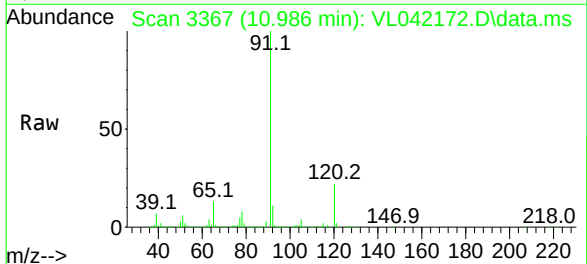
Tgt Ion: 83 Resp: 413392
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 65.0 32.5 97.5

Manual Integrations
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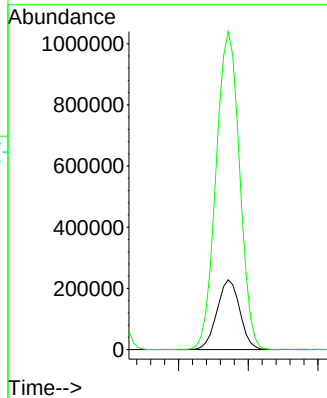
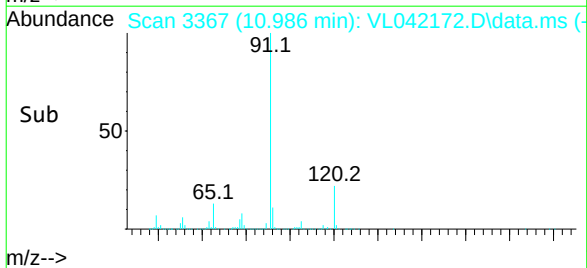
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

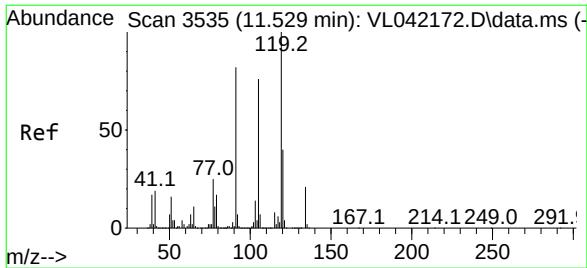


#64
n-propylbenzene
Concen: 9.122 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26



Tgt Ion:120 Resp: 259405
Ion Ratio Lower Upper
120 100
91 471.1 376.9 565.3





#65

tert-Butylbenzene

Concen: 8.828 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

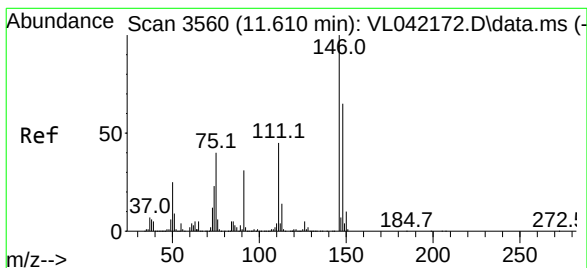
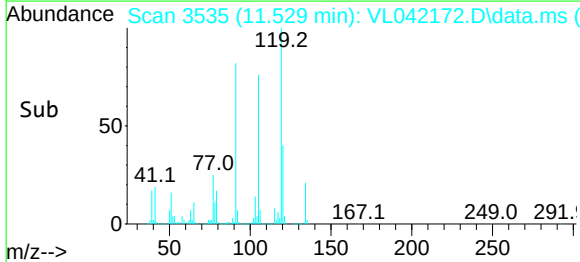
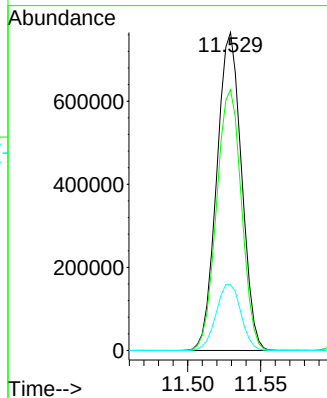
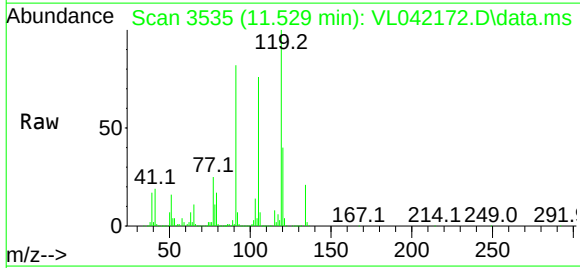
VSTDICCC010

Tgt Ion:	119	Resp:	901951
Ion	Ratio	Lower	Upper
119	100		
91	82.5	66.0	99.0
134	20.9	16.7	25.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 9.724 ppbv

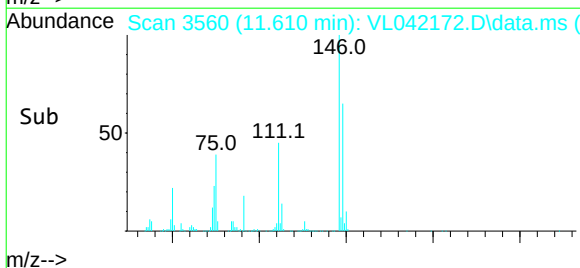
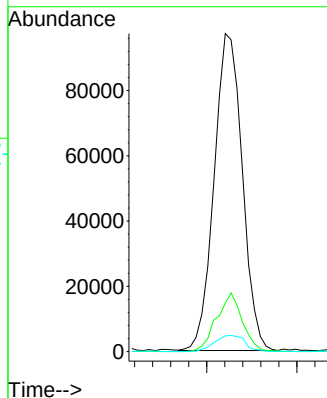
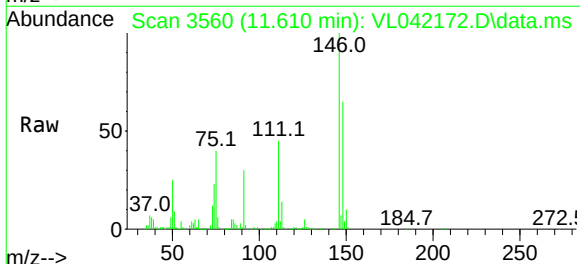
RT: 11.610 min Scan# 3560

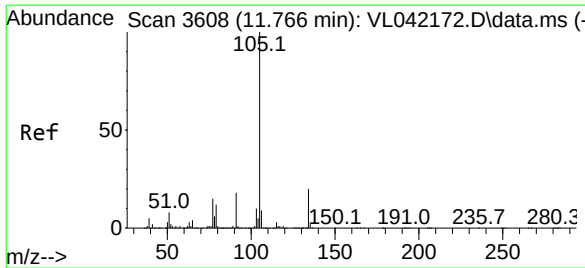
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Tgt Ion:	91	Resp:	105411
Ion	Ratio	Lower	Upper
91	100		
126	17.2	13.8	20.6
128	5.6	4.5	6.7





#67

sec-Butylbenzene

Concen: 8.796 ppbv

RT: 11.766 min Scan# 3608

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:105 Resp: 1249106

Ion Ratio Lower Upper

105 100

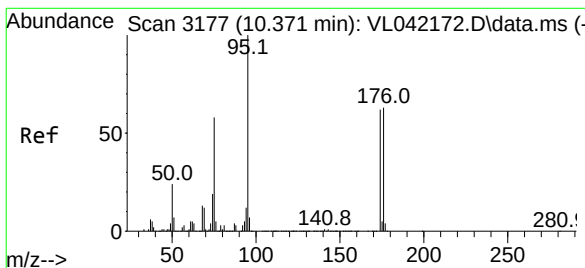
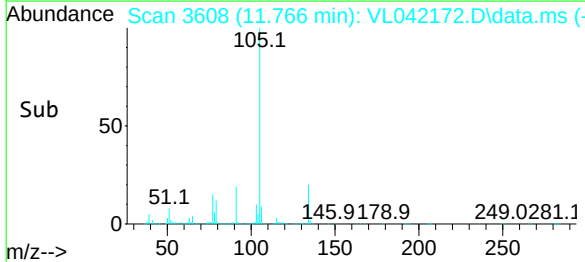
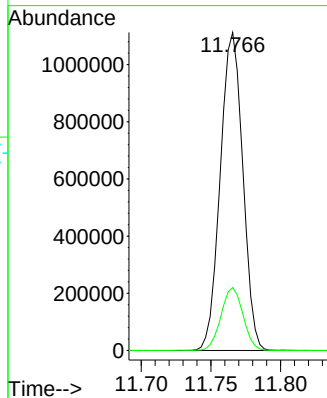
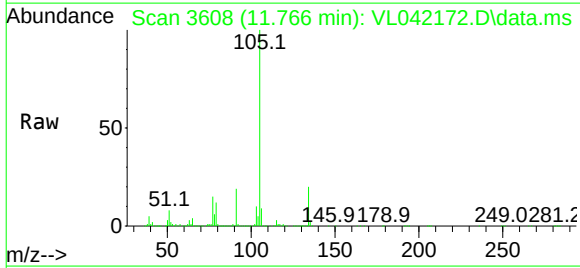
134 19.4 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.901 ppbv

RT: 10.371 min Scan# 3177

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

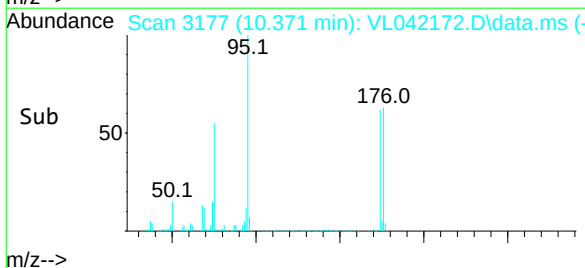
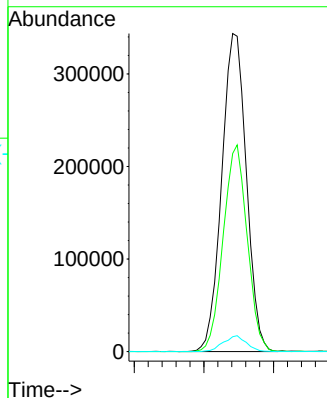
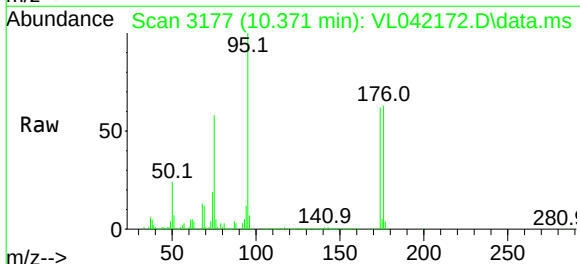
Tgt Ion: 95 Resp: 422410

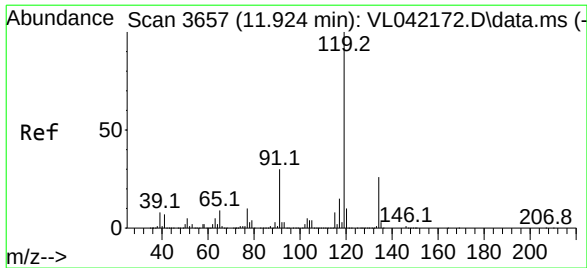
Ion Ratio Lower Upper

95 100

174 63.3 50.6 76.0

175 4.7 3.8 5.6





#69

p-Isopropyltoluene

Concen: 8.830 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 119 Resp: 1079675

Ion Ratio Lower Upper

119 100

134 25.5 20.4 30.6

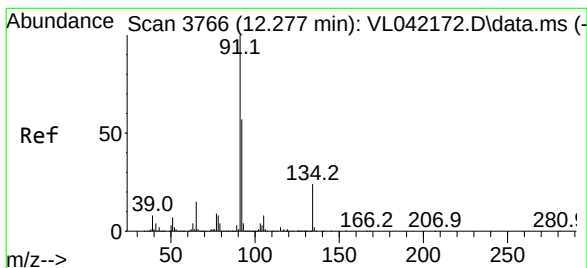
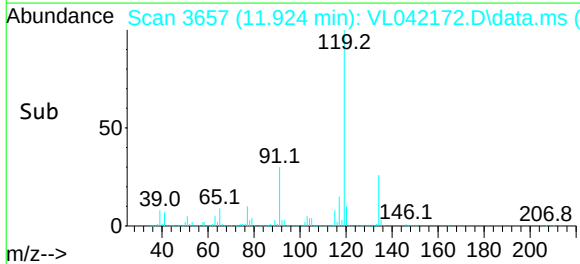
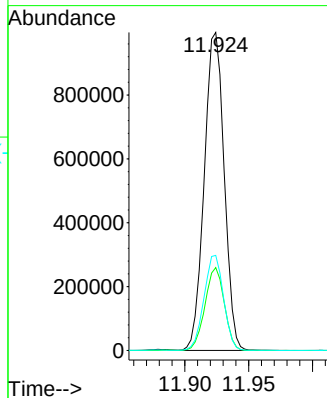
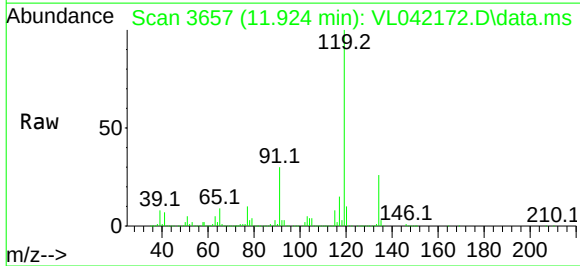
91 29.6 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 8.879 ppbv

RT: 12.277 min Scan# 3766

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

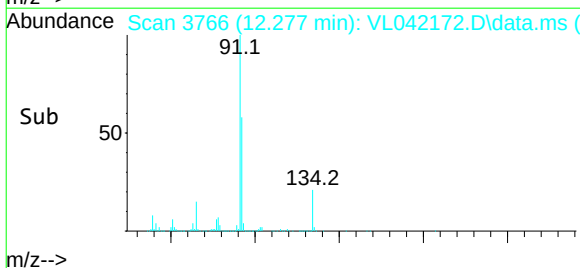
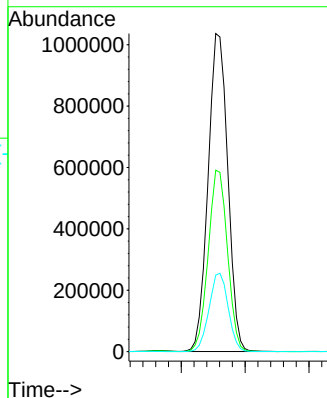
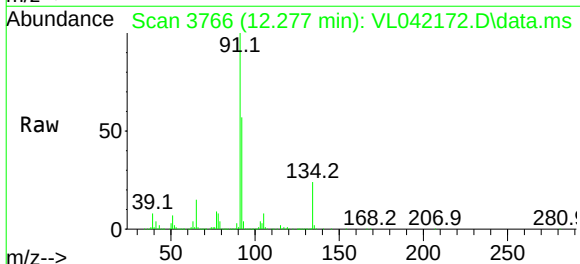
Tgt Ion: 91 Resp: 1110351

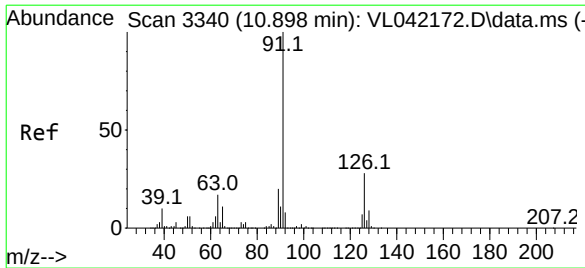
Ion Ratio Lower Upper

91 100

92 56.1 44.9 67.3

134 24.0 19.2 28.8





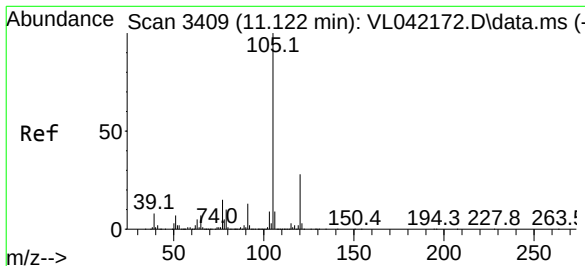
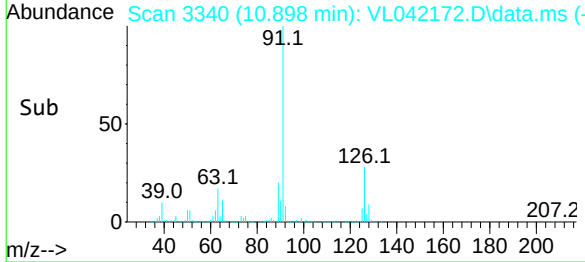
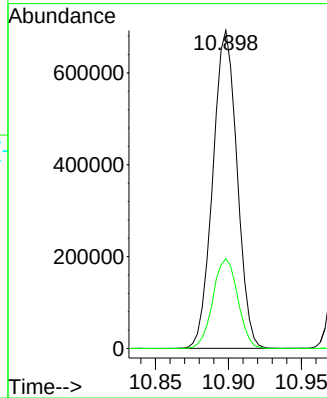
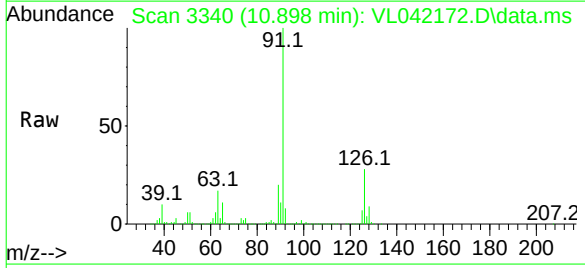
#71
2-Chlorotoluene
Concen: 9.320 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 799102
Ion Ratio Lower Upper
91 100
126 29.0 11.6 46.4

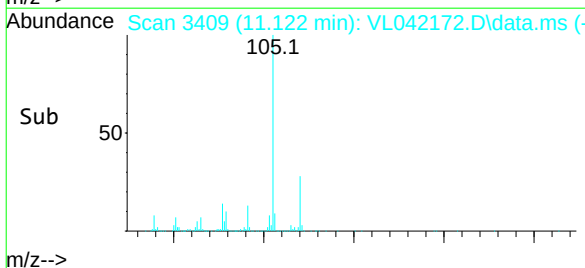
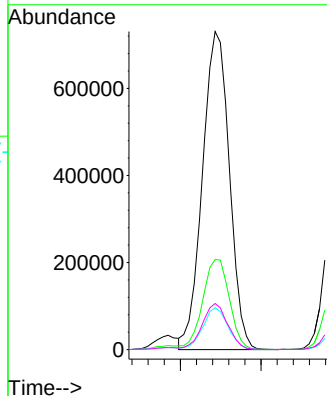
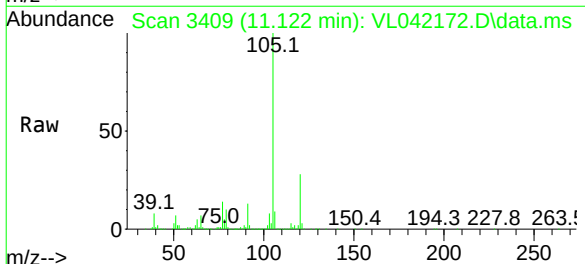
Manual Integrations
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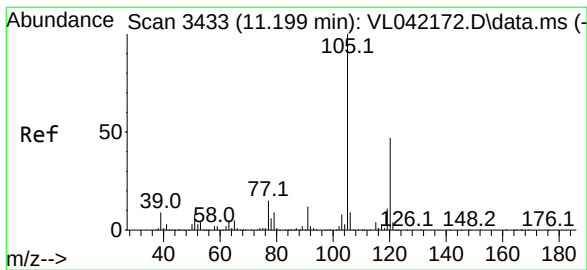
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 9.200 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 846232
Ion Ratio Lower Upper
105 100
120 29.2 23.4 35.0
91 12.9 10.3 15.5
77 14.3 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 8.970 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion:105 Resp: 720566

Ion Ratio Lower Upper

105 100

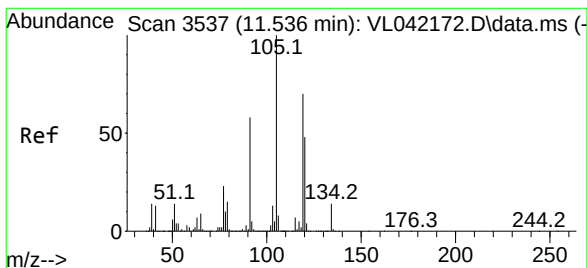
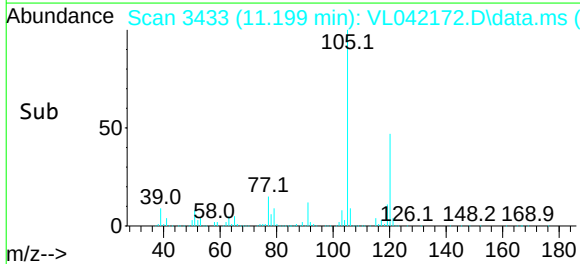
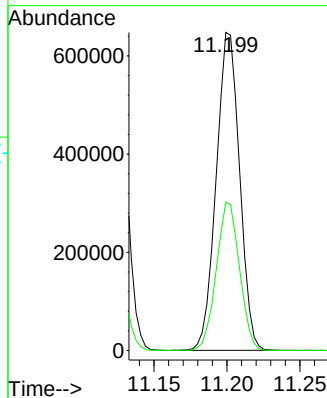
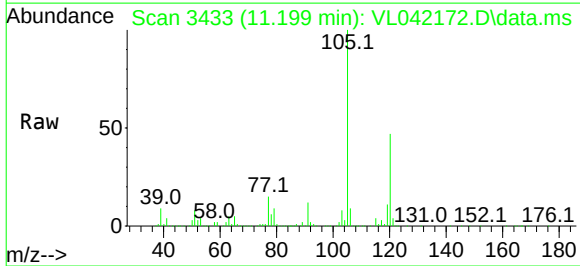
120 46.7 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.480 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Tgt Ion:105 Resp: 784745

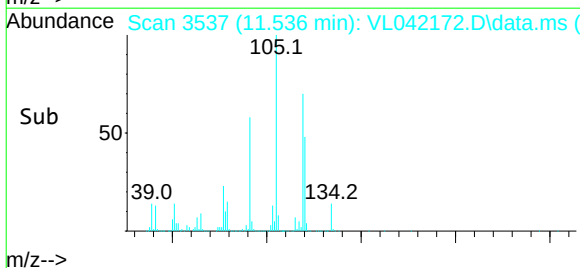
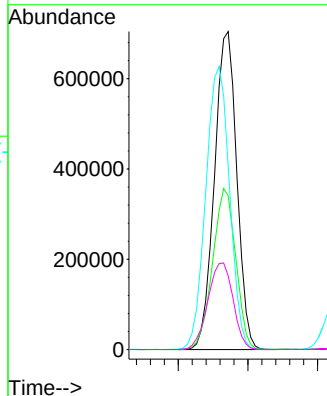
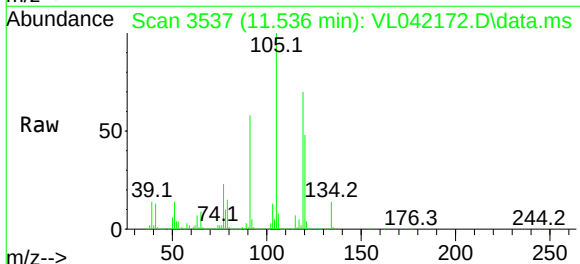
Ion Ratio Lower Upper

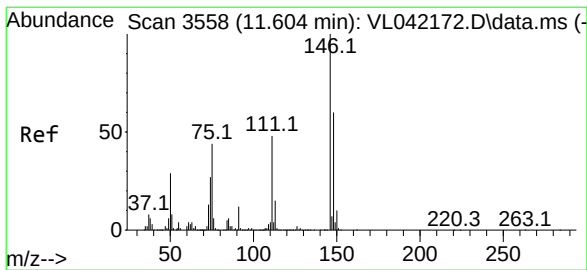
105 100

120 48.3 38.6 58.0

91 57.7 46.2 69.2

77 23.2 18.6 27.8





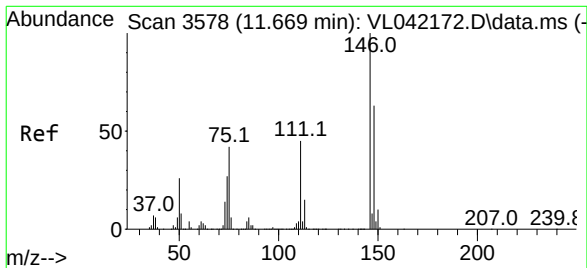
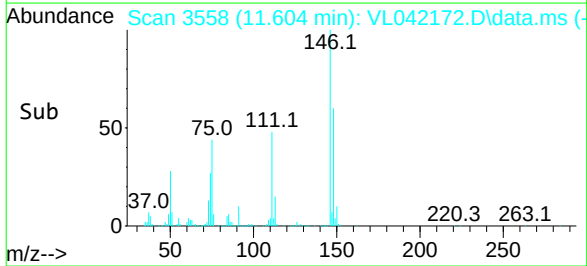
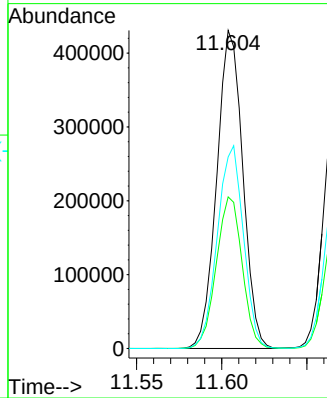
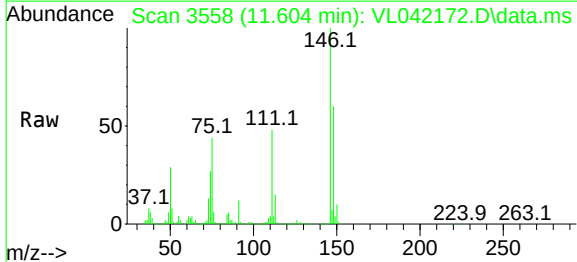
#75
1,3-Dichlorobenzene
Concen: 9.028 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:146 Resp: 458226
Ion Ratio Lower Upper
146 100
111 47.5 23.8 71.2
148 63.9 31.9 95.9

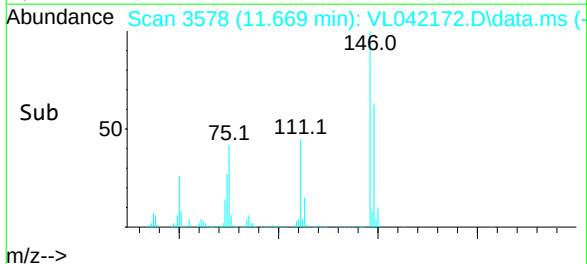
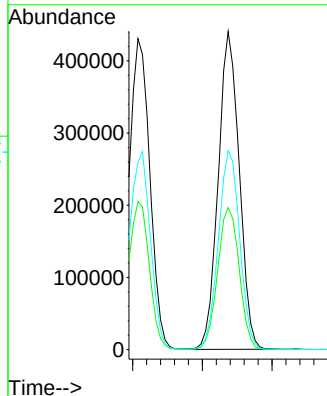
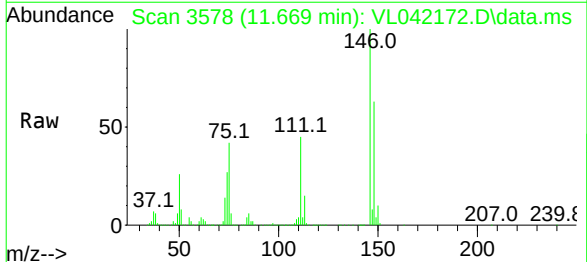
Manual Integrations
APPROVED

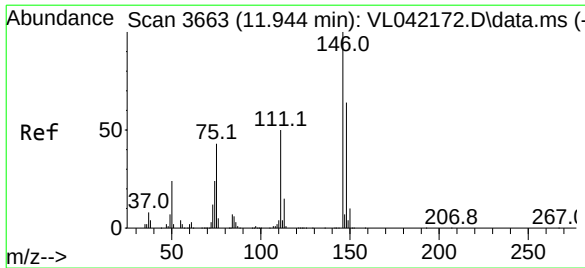
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76
1,4-Dichlorobenzene
Concen: 9.134 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

Tgt Ion:146 Resp: 461371
Ion Ratio Lower Upper
146 100
111 46.0 23.0 69.0
148 63.8 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 8.933 ppbv

RT: 11.944 min Scan# 3663

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

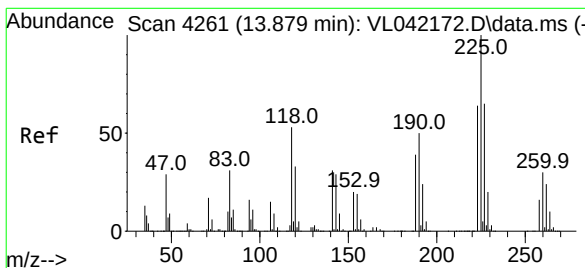
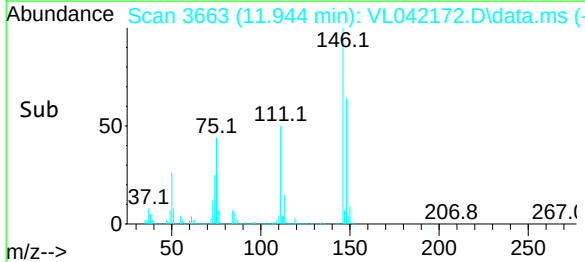
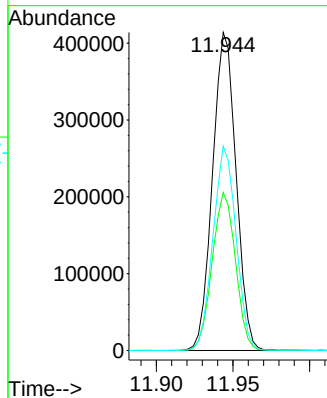
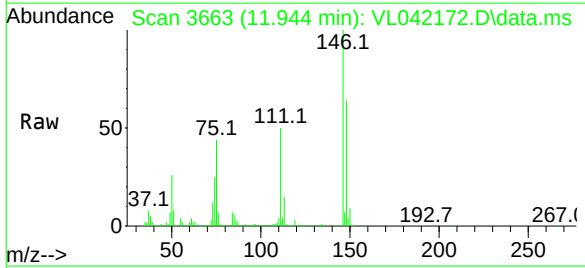
VSTDICCC010

Tgt Ion:	146	Resp:	441473
Ion Ratio	Lower	Upper	
146	100		
111	49.5	24.8	74.3
148	63.2	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.284 ppbv

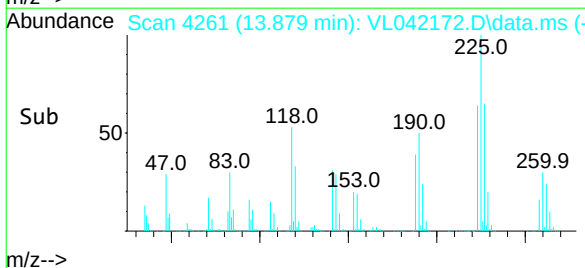
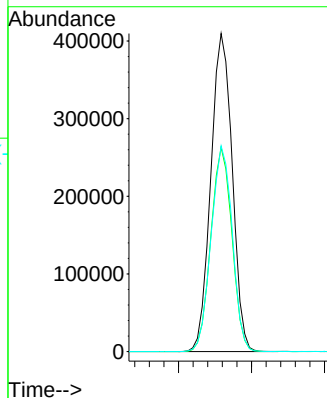
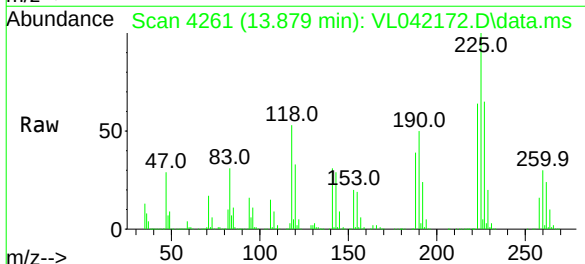
RT: 13.879 min Scan# 4261

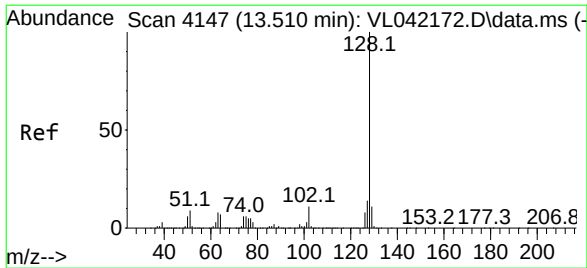
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Tgt Ion:	225	Resp:	416735
Ion Ratio	Lower	Upper	
225	100		
223	63.3	50.6	76.0
227	64.0	51.2	76.8





#79

Naphthalene

Concen: 9.271 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

Instrument :

MSVOA_L

ClientSampleId :

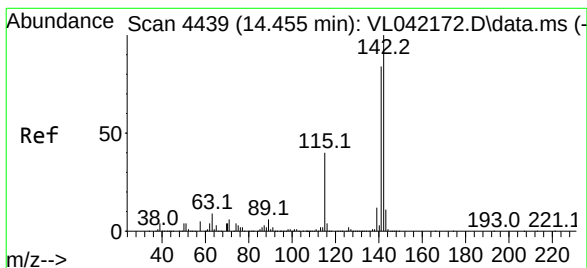
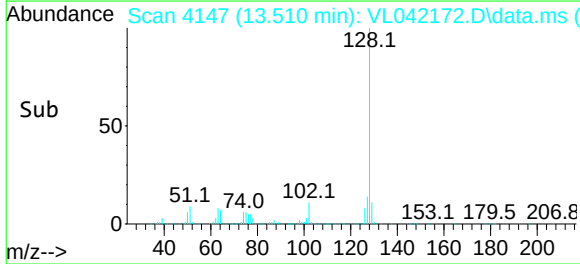
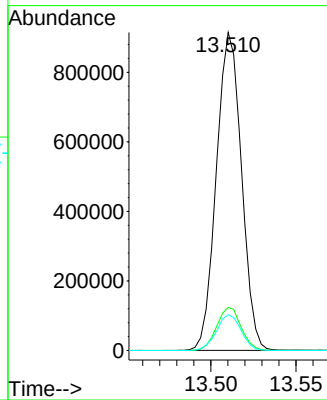
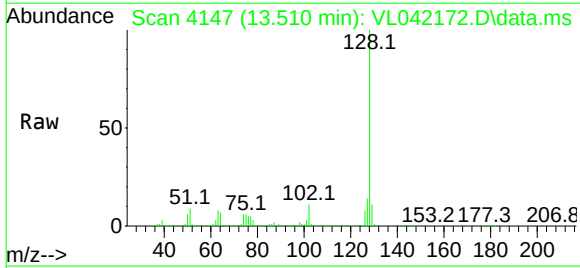
VSTDICCC010

Tgt Ion:	128	Resp:	938476
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.8	16.2
129	11.2	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 10.436 ppbv

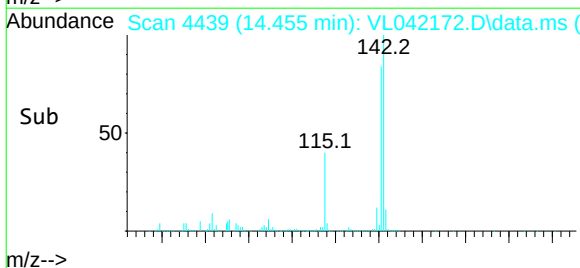
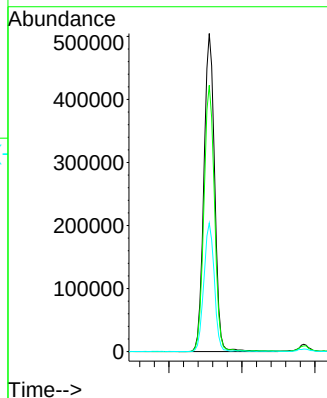
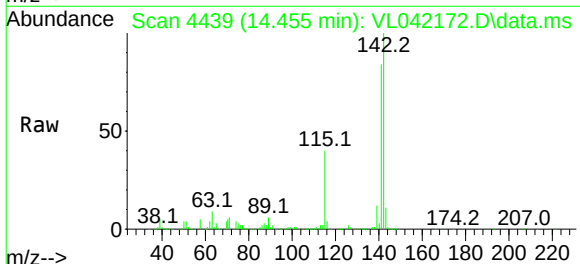
RT: 14.455 min Scan# 4439

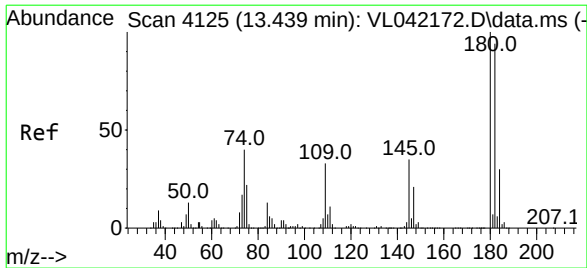
Delta R.T. 0.000 min

Lab File: VL042172.D

Acq: 27 Mar 2025 08:26

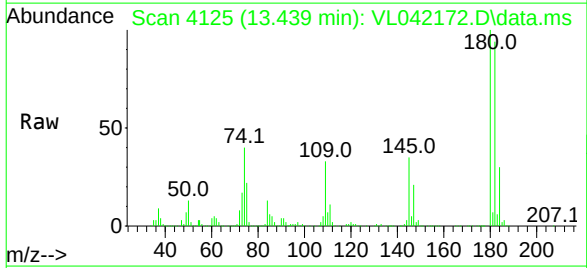
Tgt Ion:	142	Resp:	514394
Ion	Ratio	Lower	Upper
142	100		
141	82.9	66.3	99.5
115	39.5	31.6	47.4





#81
1,2,4-Trichlorobenzene
Concen: 9.561 ppbv
RT: 13.439 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042172.D
Acq: 27 Mar 2025 08:26

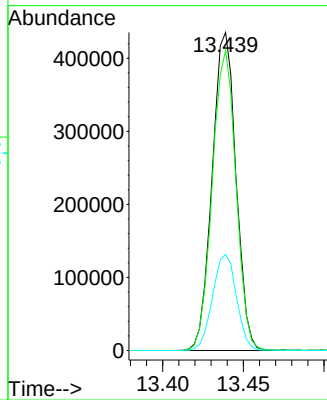
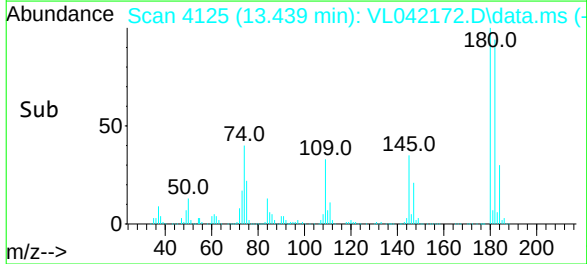
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:180 Resp: 446420
Ion Ratio Lower Upper
180 100
182 93.9 75.1 112.7
184 30.5 24.4 36.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	188395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	546394	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	504538	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 417532 10.077 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	55859	2.008	ppbv	99
3) Chlorodifluoromethane	1.473	51	57045	2.007	ppbv	99
4) Chloromethane	1.531	50	23293	2.049	ppbv	94
5) Vinyl Chloride	1.576	62	21989	1.897	ppbv	99
6) Bromomethane	1.664	94	10027	1.946	ppbv	98
7) Chloroethane	1.703	64	8413	1.844	ppbv	92
8) Dichlorotetrafluoroethane	1.551	85	48008	2.027	ppbv	98
9) Propene	1.483	41	26295	2.054	ppbv	94
10) Heptane	4.972	43	71466	2.063	ppbv	99
11) Trichlorofluoromethane	1.874	101	55754	2.060	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	44761	2.012	ppbv	98
13) Ethanol	1.719	45	2748m	2.741	ppbv	
14) Bromoethene	1.780	108	17323	2.033	ppbv #	89
15) Acetone	1.832	43	55365	2.101	ppbv	95
16) 1,3-Butadiene	1.606	39	22894	1.932	ppbv	95
17) tert-Butyl alcohol	2.039	59	66174	2.016	ppbv	100
18) 1,1-Dichloroethene	2.030	96	21103	2.029	ppbv	95
19) Isopropyl Alcohol	1.884	45	27804	1.870	ppbv #	35
20) Methylene Chloride	2.059	84	20518	2.091	ppbv	96
21) Allyl Chloride	2.094	41	38425	2.068	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	23384	1.924	ppbv	92
23) Vinyl Acetate	2.460	43	20736	1.894	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	44740	2.008	ppbv	99
25) Ethyl Acetate	2.832	43	139516	2.040	ppbv	99
26) Hexane	2.823	57	52095	1.972	ppbv	92
27) Carbon Disulfide	2.146	76	57969	2.047	ppbv #	76
28) Methyl tert-Butyl Ether	2.437	73	33703	2.049	ppbv	99
29) Chloroform	2.845	83	78043	2.019	ppbv	95
30) Cyclohexane	3.852	84	45641	1.989	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	53713	2.003	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	81070	1.833	ppbv	99
34) 2-Butanone	2.554	43	84157	2.124	ppbv	99
35) Carbon Tetrachloride	3.758	117	81735	1.944	ppbv	96
36) Benzene	3.651	78	110727	2.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	61476	1.982	ppbv	97
38) Trichloroethene	4.541	130	43501	1.924	ppbv	97
39) 1,2-Dichloropropane	4.308	63	39912	2.023	ppbv	93
40) 1,4-Dioxane	4.587	88	20884m	2.040	ppbv	
41) Tetrahydrofuran	3.056	42	47262	2.097	ppbv	99
42) Bromodichloromethane	4.483	83	87640	2.050	ppbv	99
43) Methyl Methacrylate	4.878	69	44624	1.952	ppbv	97
44) 2,2,4-Trimethylpentane	4.632	57	188282	2.057	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	49461	2.011	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

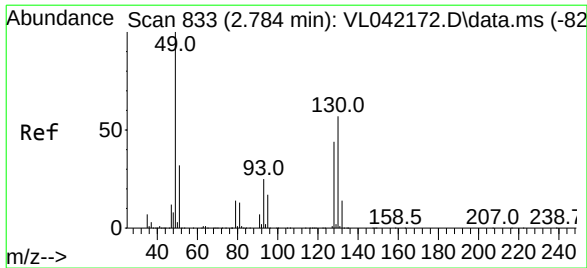
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

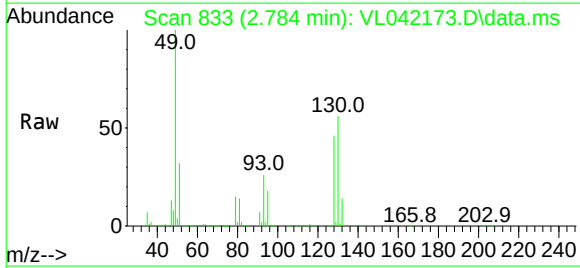
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv	#	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv		95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv		100
49) Bromoform	9.477	173	65221	2.056	ppbv		98
50) 4-Methyl-2-Pentanone	5.752	43	132328	2.107	ppbv		99
51) 2-Hexanone	7.435	43	112681	2.162	ppbv	#	99
52) Tetrachloroethene	8.221	164	40558	1.888	ppbv		98
53) Toluene	6.923	91	131314	2.045	ppbv		99
54) 1,2-Dibromoethane	7.648	107	56799	1.952	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.920	131	58141	2.093	ppbv		97
57) Chlorobenzene	8.914	112	100308	2.096	ppbv	#	94
58) Ethyl Benzene	9.351	91	191114	2.132	ppbv		96
59) m/p-Xylene	9.548	91	299531m	4.181	ppbv		
60) o-Xylene	9.959	91	151292	2.109	ppbv		98
61) Styrene	9.865	104	74134	2.089	ppbv		98
62) Isopropylbenzene	10.535	105	228191	2.127	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	90114	2.067	ppbv		99
64) n-propylbenzene	10.985	120	58105	2.104	ppbv		92
65) tert-Butylbenzene	11.529	119	216336	2.180	ppbv		99
66) Benzyl Chloride	11.610	91	22272	2.116	ppbv		95
67) sec-Butylbenzene	11.762	105	297381	2.156	ppbv		99
69) p-Isopropyltoluene	11.921	119	258357	2.176	ppbv		100
70) n-Butylbenzene	12.277	91	270616	2.228	ppbv		99
71) 2-Chlorotoluene	10.898	91	177487	2.132	ppbv		100
72) 4-Ethyltoluene	11.121	105	194660	2.179	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	169221	2.169	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	198351	2.207	ppbv		96
75) 1,3-Dichlorobenzene	11.604	146	107217	2.175	ppbv		97
76) 1,4-Dichlorobenzene	11.668	146	104925	2.139	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	102310	2.132	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	109539	2.242	ppbv		99
79) Naphthalene	13.510	128	233451	2.375	ppbv		97
80) Naphthalene,2-methyl-	14.455	142	117313	2.451	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	103765	2.288	ppbv		97

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

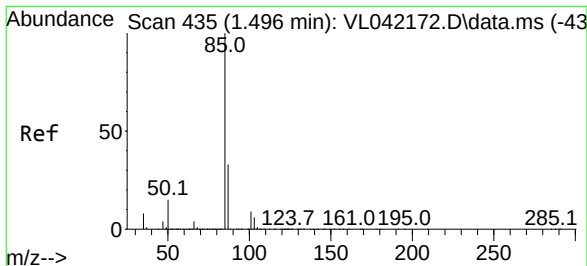
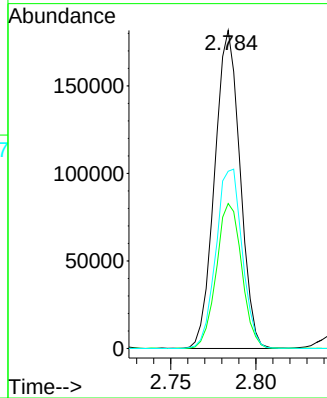
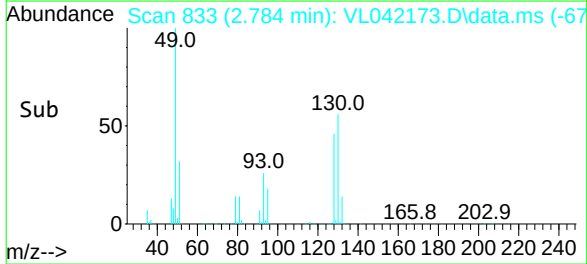
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 49 Resp: 188395
Ion Ratio Lower Upper
49 100
128 45.7 22.9 68.5
130 58.5 28.8 86.4

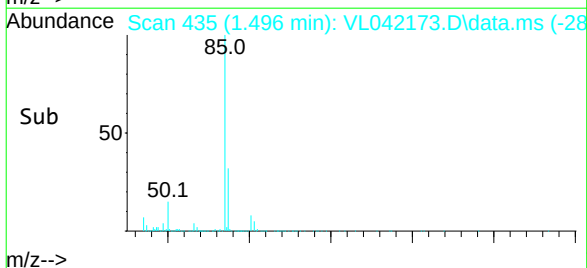
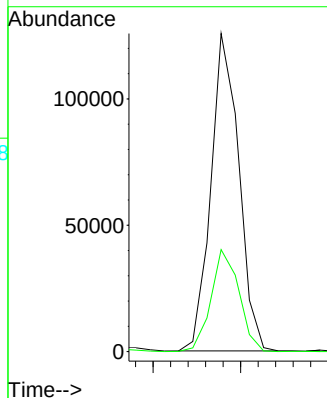
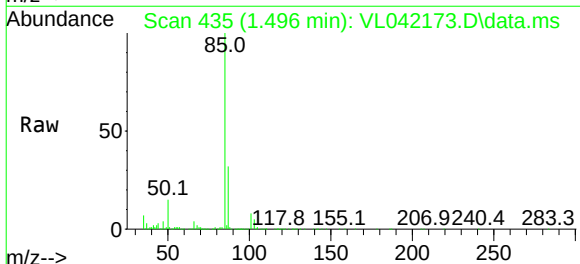
Manual Integrations
APPROVED

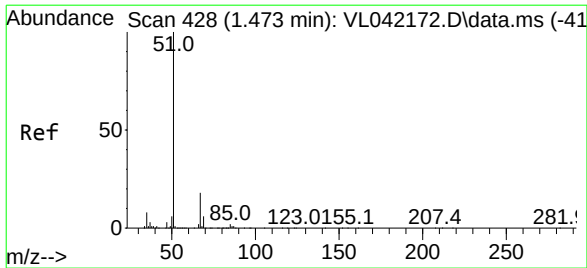
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#2
Dichlorodifluoromethane
Concen: 2.008 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 85 Resp: 55859
Ion Ratio Lower Upper
85 100
87 32.1 26.1 39.1





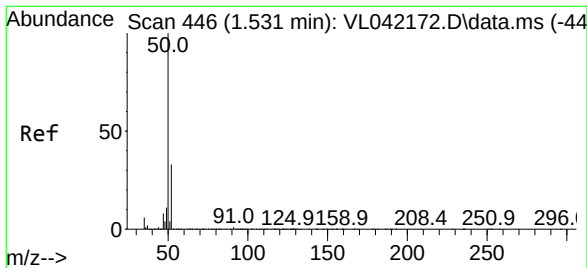
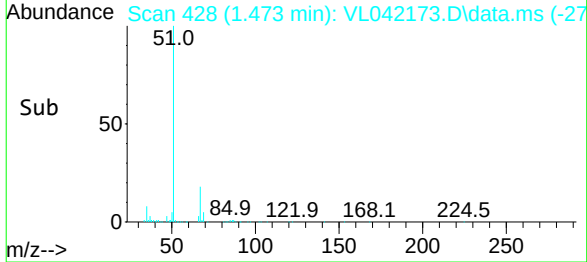
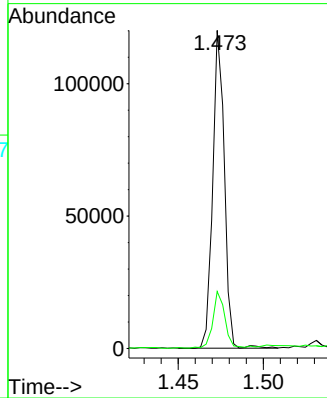
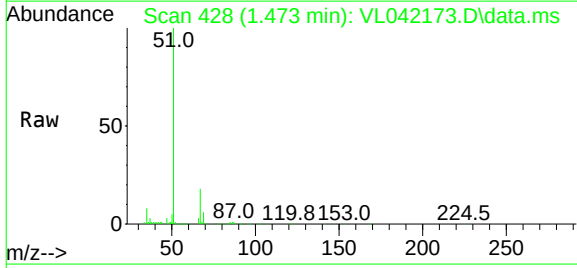
#3
Chlorodifluoromethane
Concen: 2.007 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 51 Resp: 57045
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.6

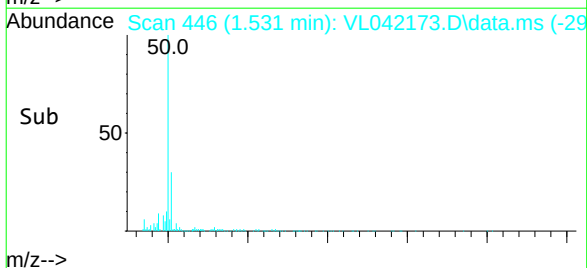
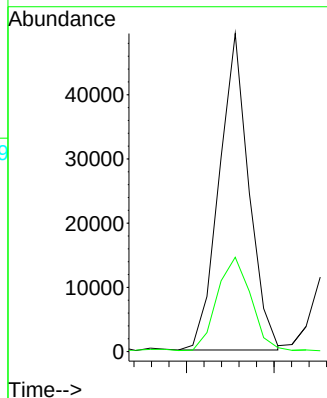
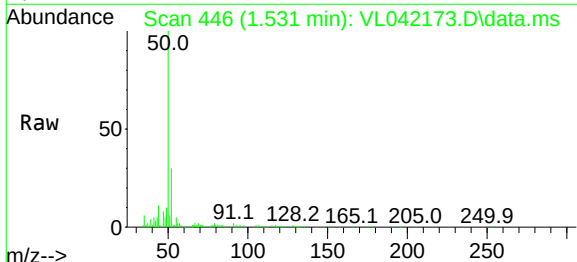
Manual Integrations
APPROVED

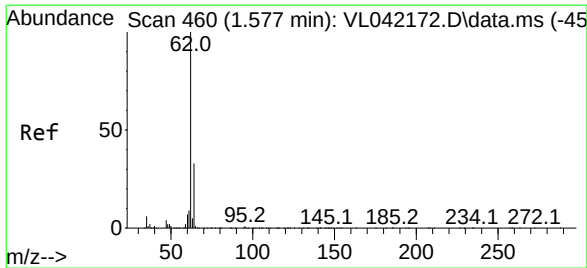
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 2.049 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 50 Resp: 23293
Ion Ratio Lower Upper
50 100
52 29.5 26.1 39.1





#5
 Vinyl Chloride
 Concen: 1.897 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

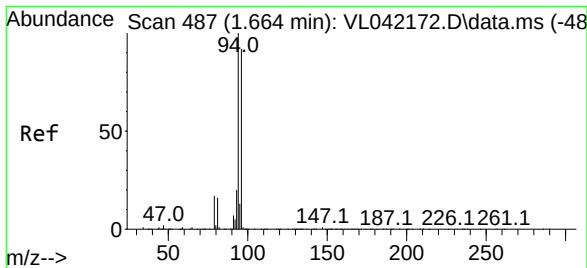
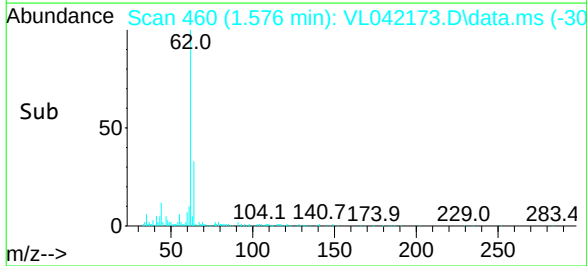
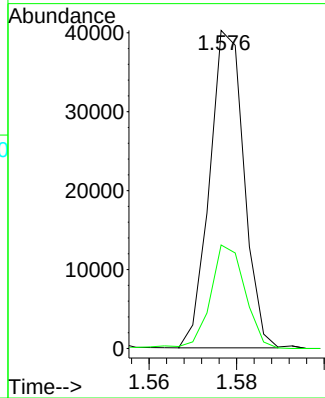
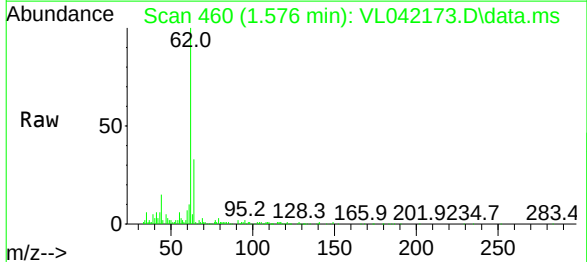
ClientSampleId :

VSTDICC002

Tgt Ion: 62 Resp: 21989
 Ion Ratio Lower Upper
 62 100
 64 32.5 26.6 40.0

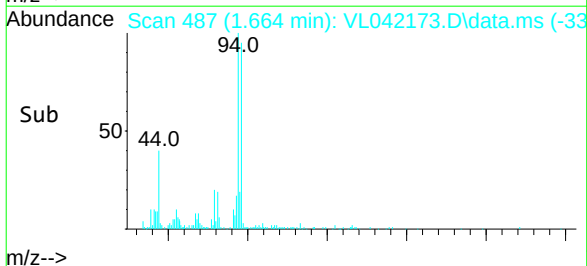
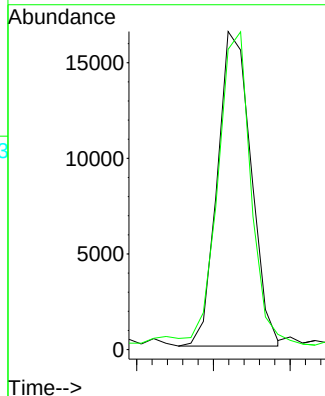
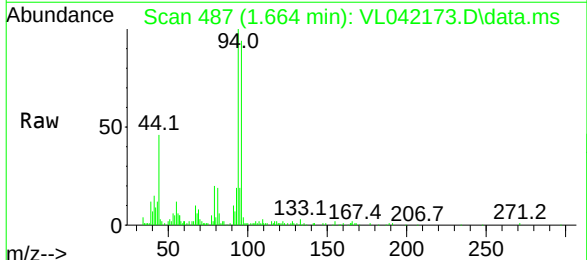
Manual Integrations
 APPROVED

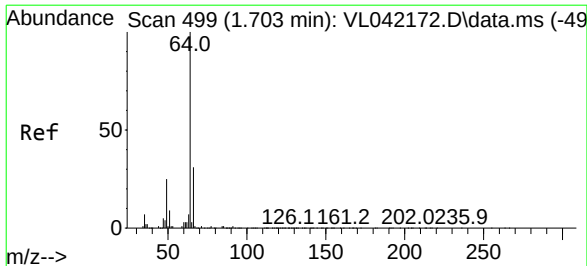
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 1.946 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Tgt Ion: 94 Resp: 10027
 Ion Ratio Lower Upper
 94 100
 96 93.6 73.1 109.7





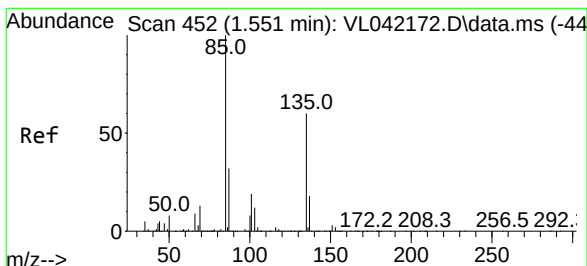
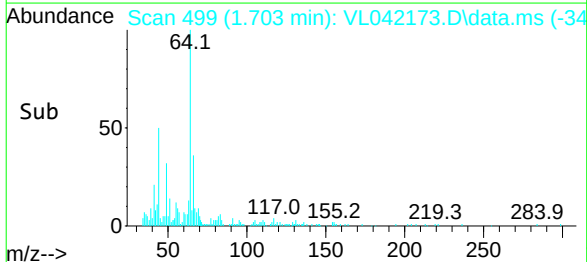
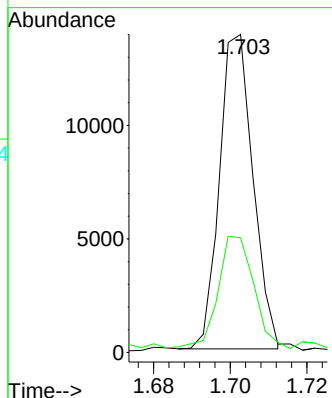
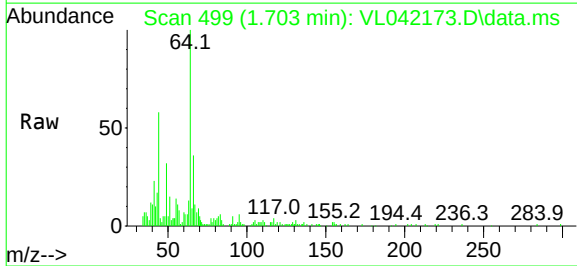
#7
Chloroethane
Concen: 1.844 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 64 Resp: 8413
Ion Ratio Lower Upper
64 100
66 36.1 25.2 37.8

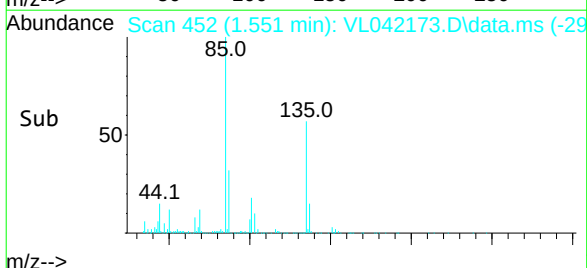
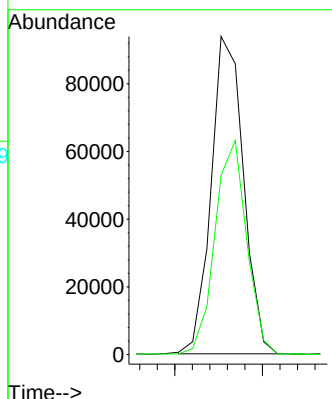
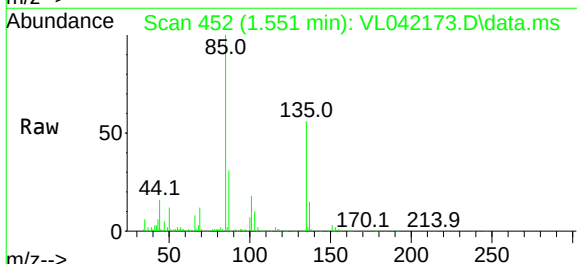
Manual Integrations
APPROVED

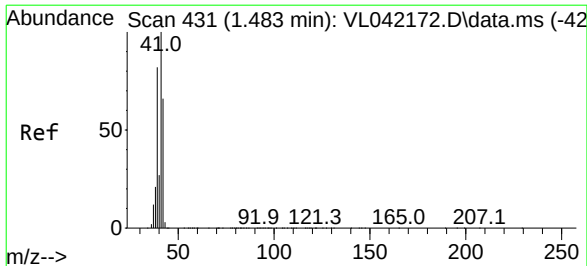
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 2.027 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

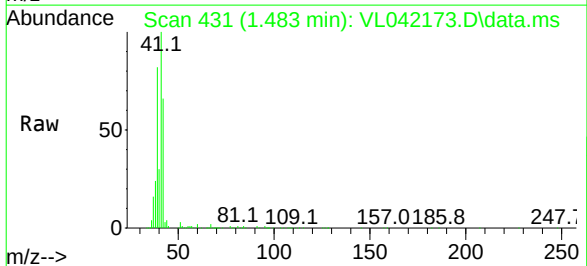
Tgt Ion: 85 Resp: 48008
Ion Ratio Lower Upper
85 100
135 66.8 52.4 78.6





#9
 Propene
 Concen: 2.054 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

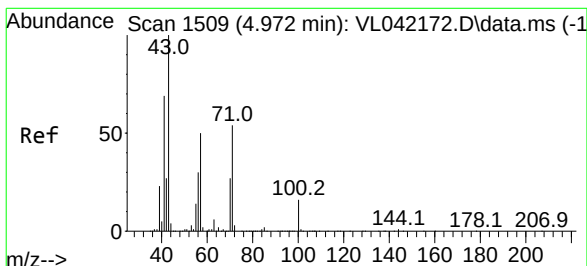
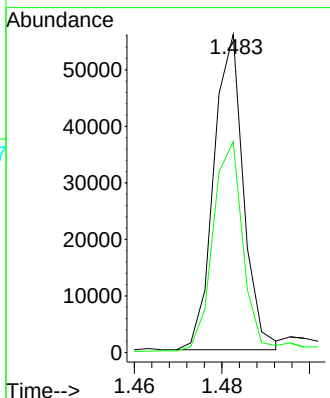
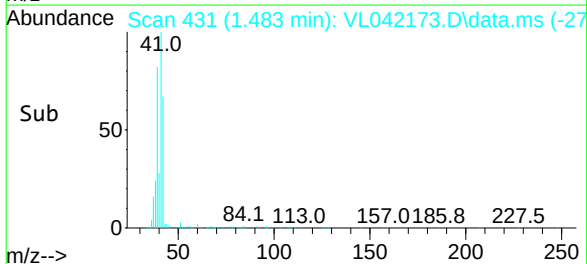
Instrument : MSVOA_L
 ClientSampleId : VSTDICC002



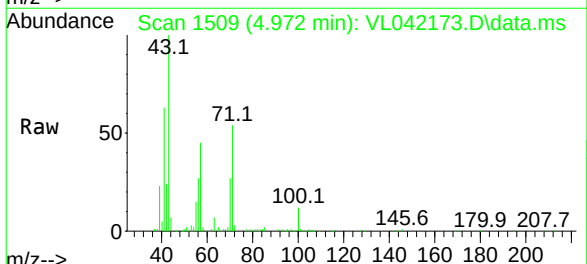
Tgt Ion: 41 Resp: 26295
 Ion Ratio Lower Upper
 41 100
 42 73.9 55.4 83.2

Manual Integrations
 APPROVED

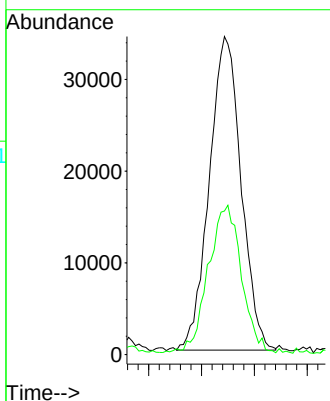
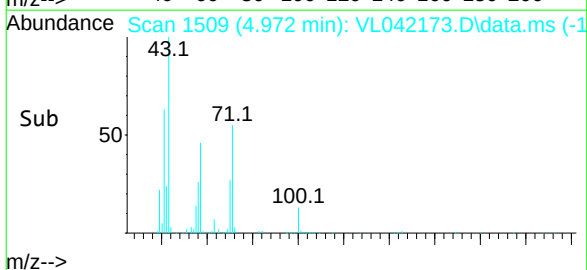
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

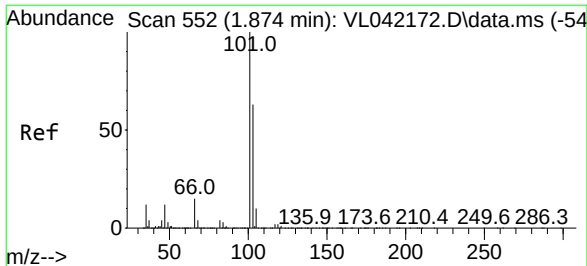


#10
 Heptane
 Concen: 2.063 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59



Tgt Ion: 43 Resp: 71466
 Ion Ratio Lower Upper
 43 100
 57 49.6 39.4 59.2





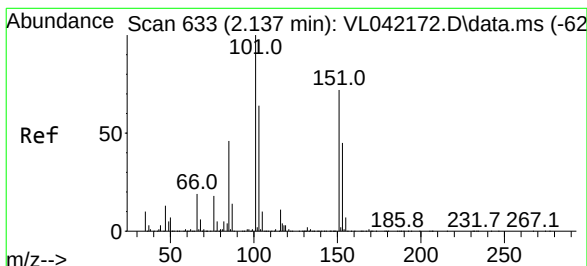
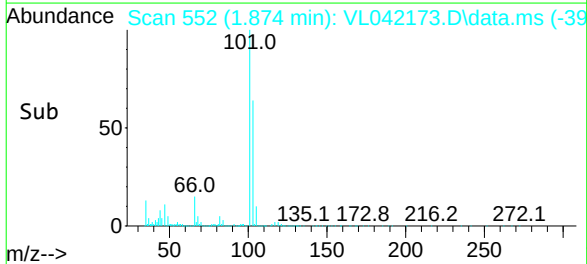
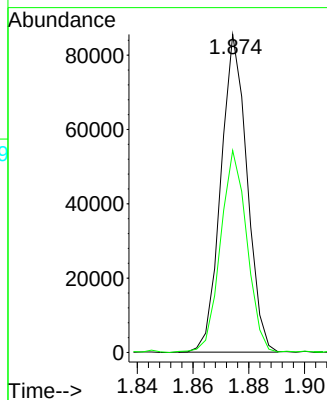
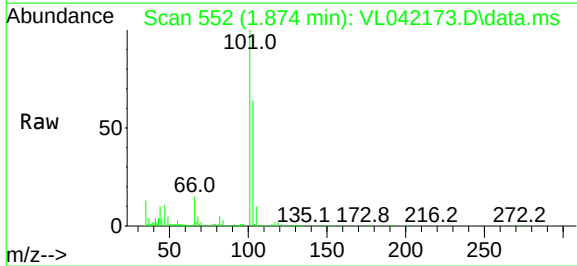
#11
Trichlorofluoromethane
Concen: 2.060 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:101 Resp: 55754
Ion Ratio Lower Upper
101 100
103 63.5 50.2 75.2

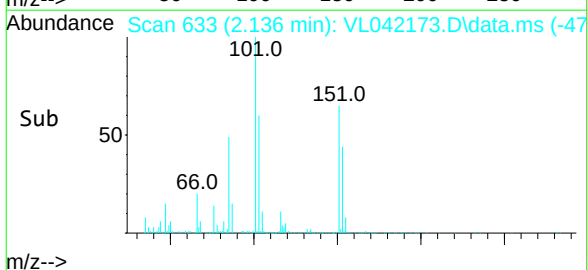
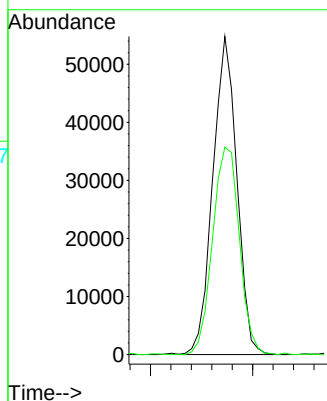
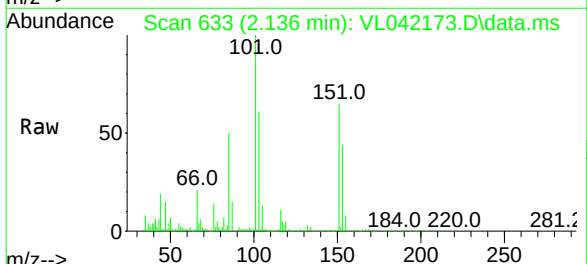
Manual Integrations
APPROVED

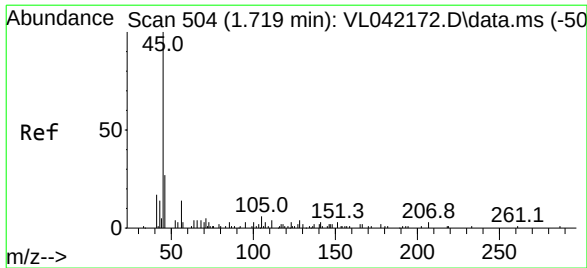
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.012 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:101 Resp: 44761
Ion Ratio Lower Upper
101 100
151 73.0 57.1 85.7





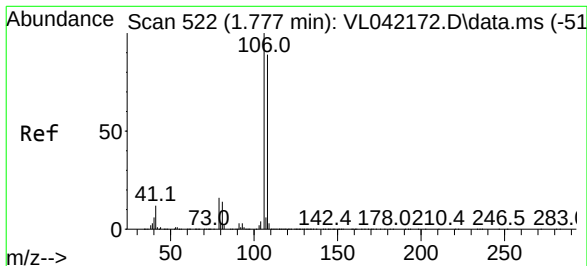
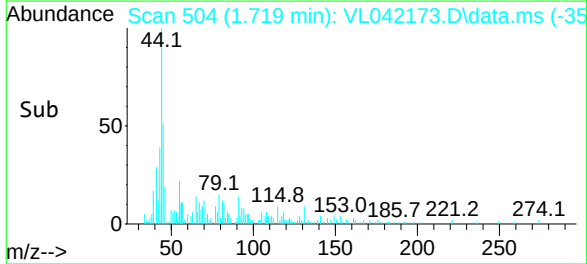
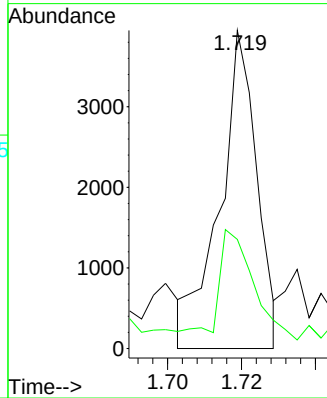
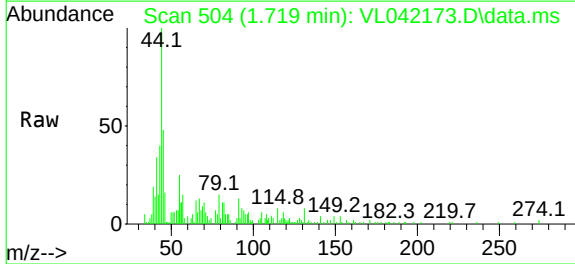
#13
Ethanol
Concen: 2.741 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 45 Resp: 2748
Ion Ratio Lower Upper
45 100
46 56.9 20.2 80.8

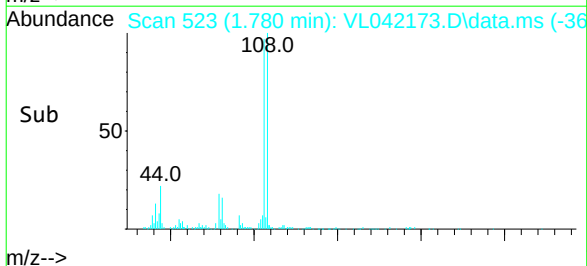
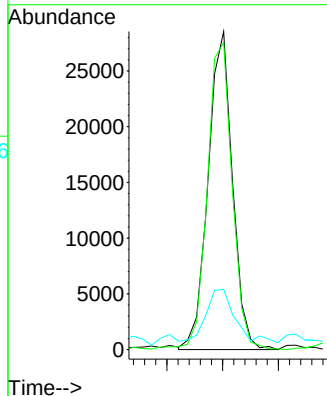
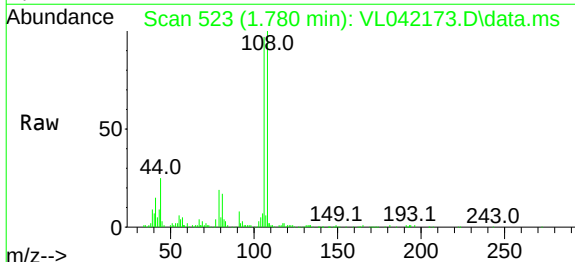
Manual Integrations
APPROVED

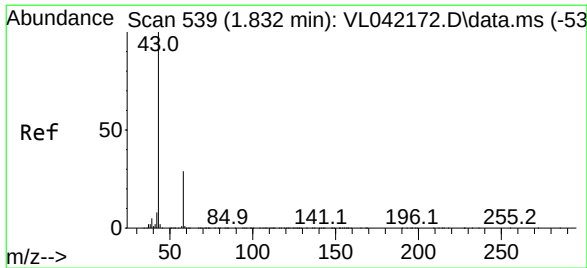
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 2.033 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:108 Resp: 17323
Ion Ratio Lower Upper
108 100
106 100.6 86.8 130.2
79 32.0 15.0 22.6#





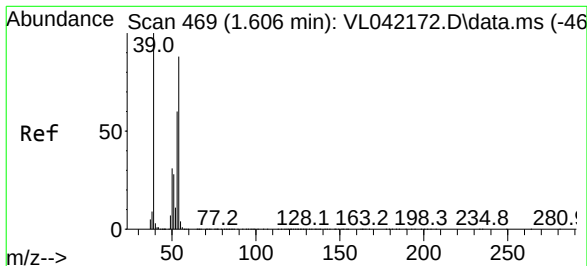
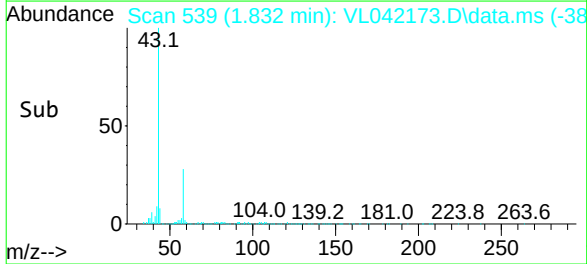
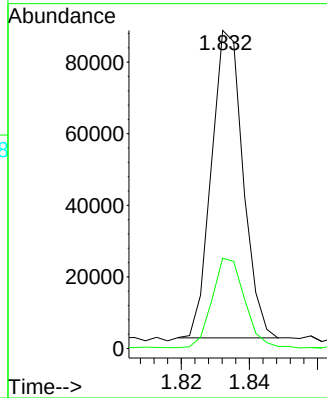
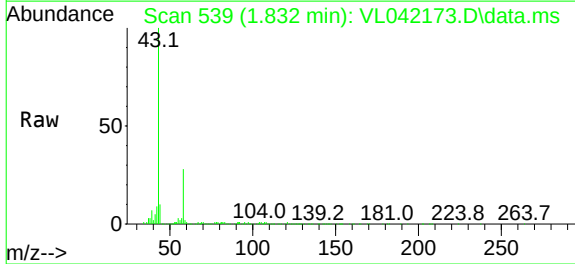
#15
Acetone
Concen: 2.101 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion: 43 Resp: 55365
Ion Ratio Lower Upper
43 100
58 31.8 23.2 34.8

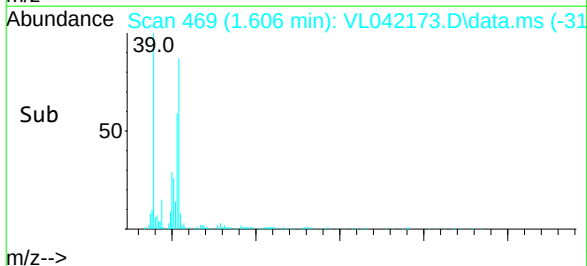
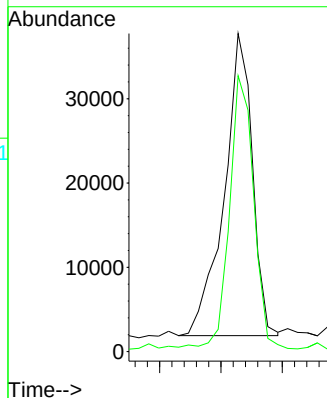
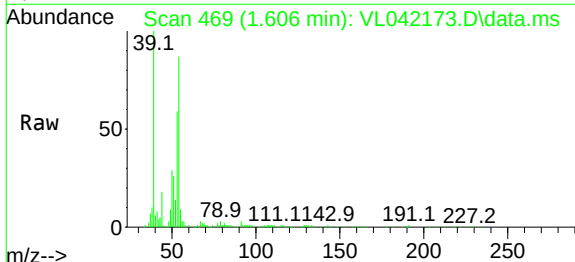
Manual Integrations
APPROVED

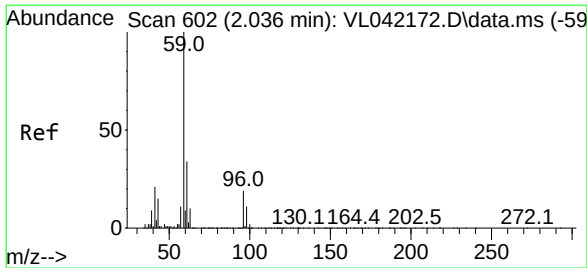
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 1.932 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 39 Resp: 22894
Ion Ratio Lower Upper
39 100
54 79.9 60.7 91.1





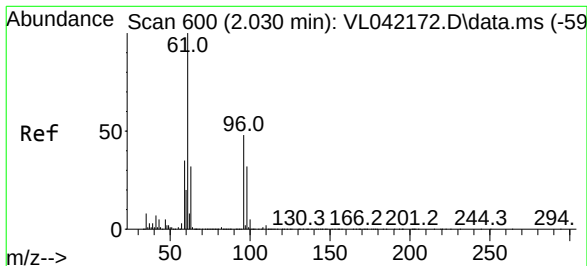
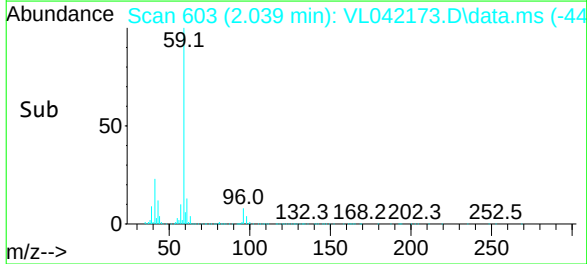
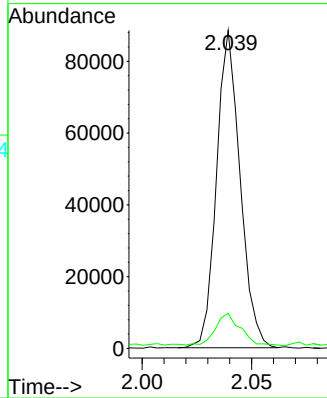
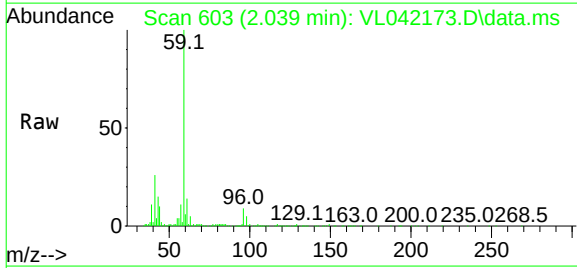
#17
tert-Butyl alcohol
Concen: 2.016 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 59 Resp: 66174
Ion Ratio Lower Upper
59 100
57 11.2 8.9 13.3

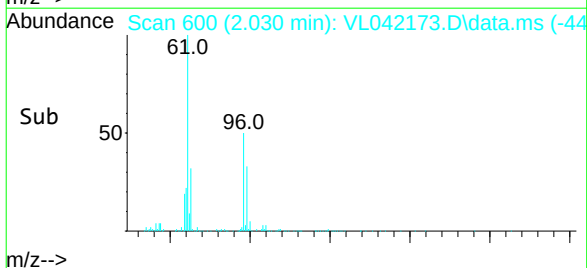
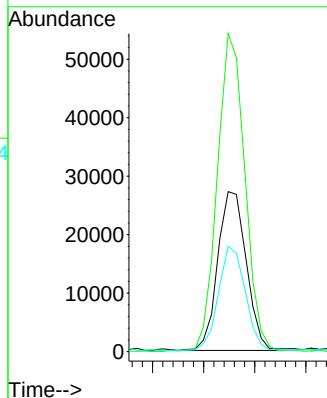
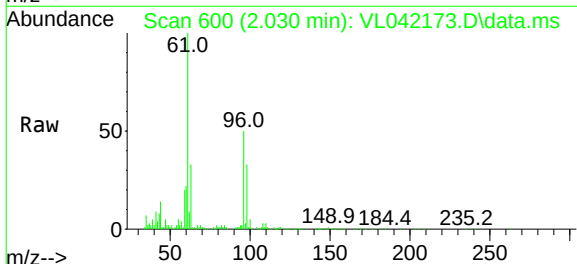
Manual Integrations
APPROVED

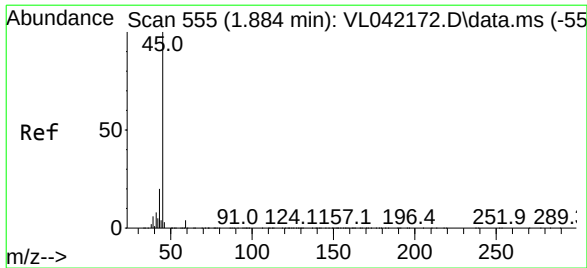
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 2.029 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 96 Resp: 21103
Ion Ratio Lower Upper
96 100
61 199.8 167.6 251.4
98 66.0 53.5 80.3





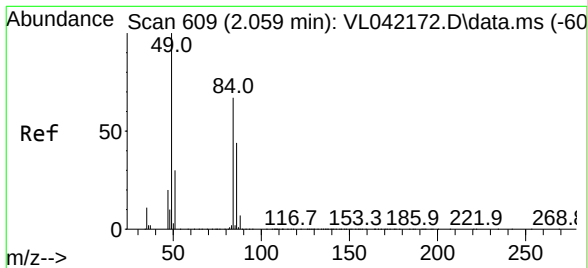
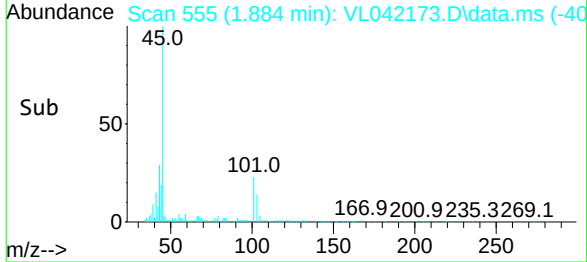
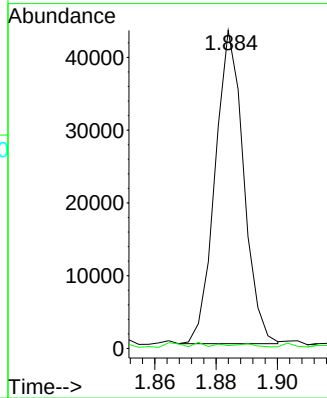
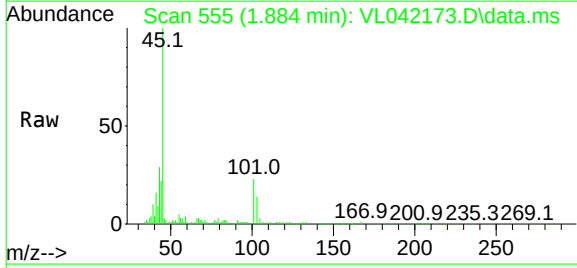
#19
Isopropyl Alcohol
Concen: 1.870 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 45 Resp: 27804
Ion Ratio Lower Upper
45 100
58 3.3 36.9 55.3

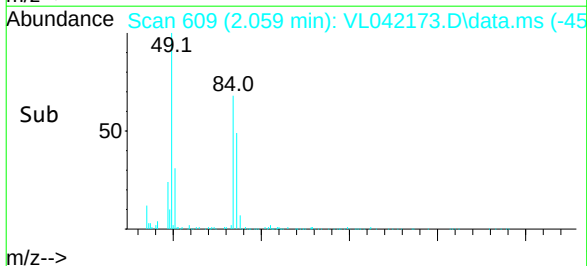
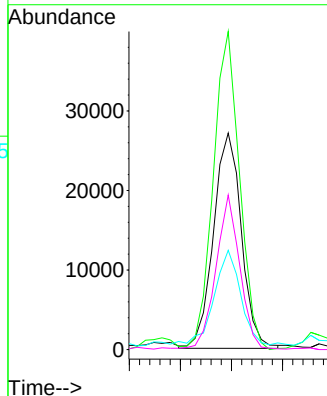
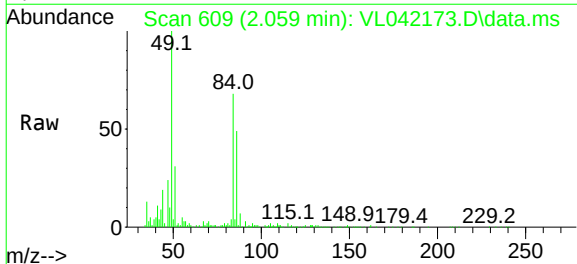
Manual Integrations
APPROVED

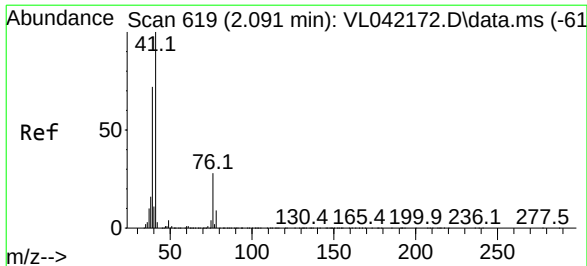
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 2.091 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 20518
Ion Ratio Lower Upper
84 100
49 148.8 120.2 180.4
51 43.5 37.4 56.0
86 72.2 52.4 78.6





#21

Allyl Chloride

Concen: 2.068 ppbv

RT: 2.094 min Scan# 62

Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

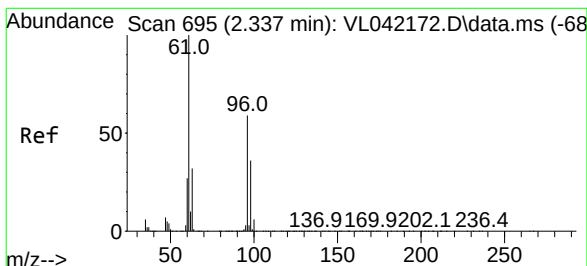
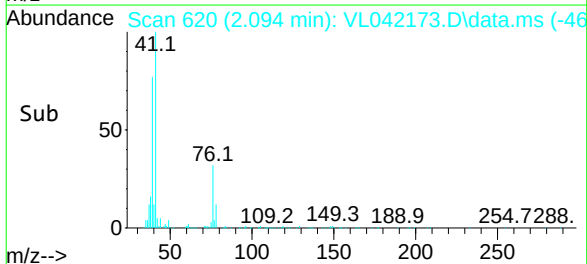
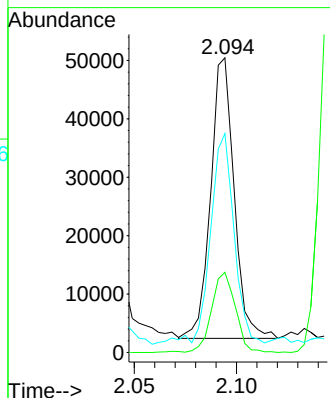
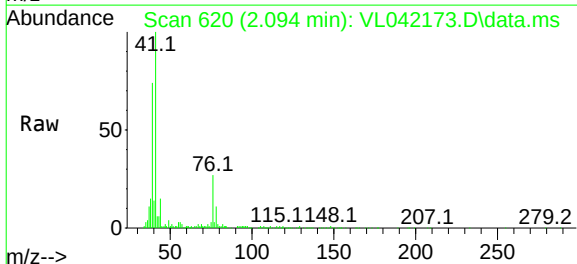
VSTDICC002

Tgt Ion: 41	Resp: 38425
Ion Ratio	Lower Upper
41 100	
76 29.0	24.1 36.1
39 77.5	61.1 91.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 1.924 ppbv

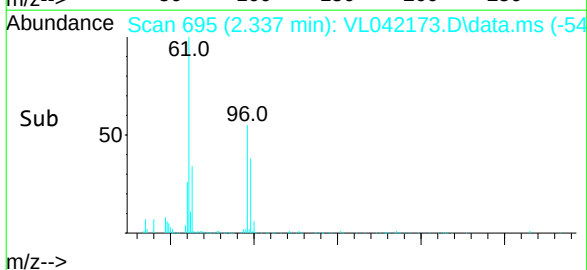
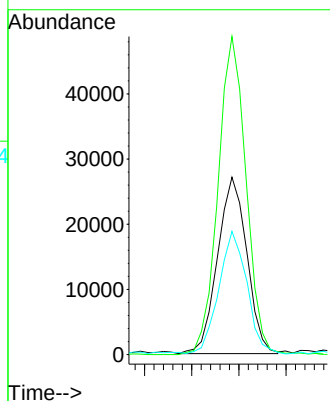
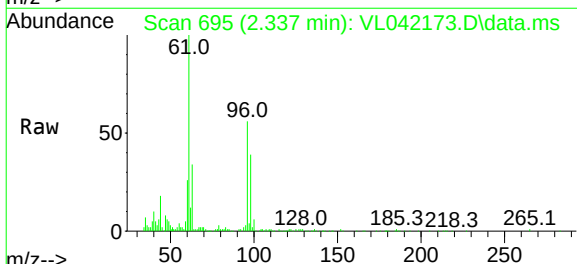
RT: 2.337 min Scan# 695

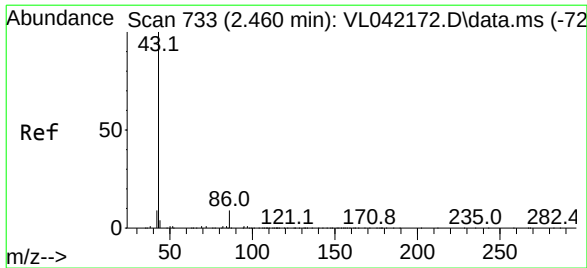
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion: 96	Resp: 23384
Ion Ratio	Lower Upper
96 100	
61 180.3	136.6 204.8
98 68.6	49.4 74.2





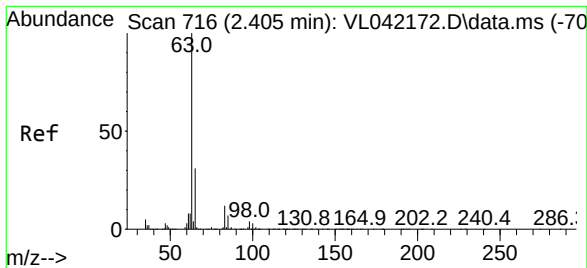
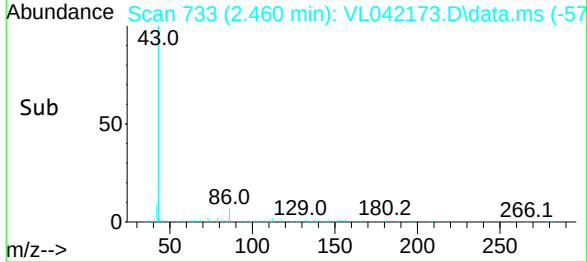
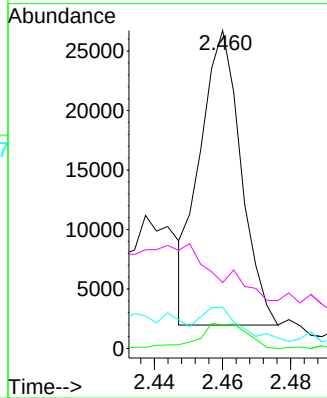
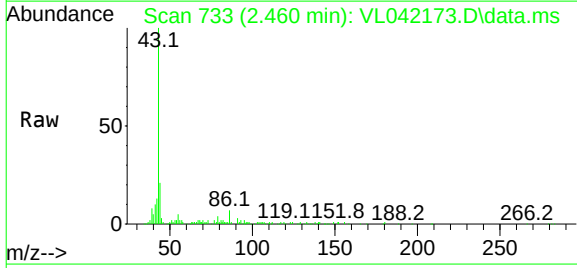
#23
 Vinyl Acetate
 Concen: 1.894 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

Tgt Ion: 43	Resp: 20736
Ion Ratio	Lower Upper
43 100	
86 8.1	5.5 8.3
42 10.4	8.6 13.0
44 6.1	6.2 9.4#

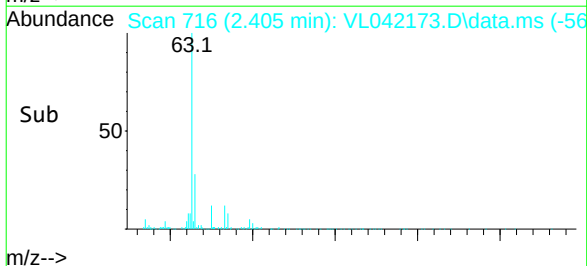
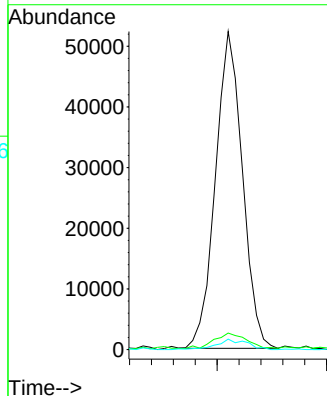
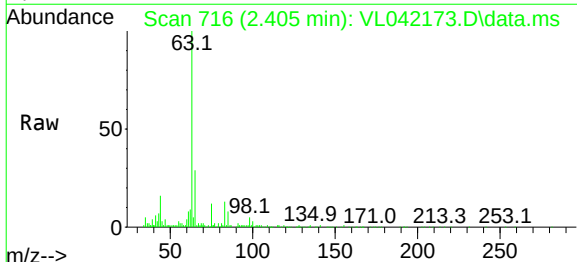
Manual Integrations
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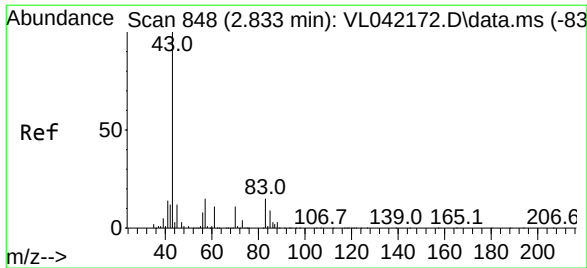
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#24
 1,1-Dichloroethane
 Concen: 2.008 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

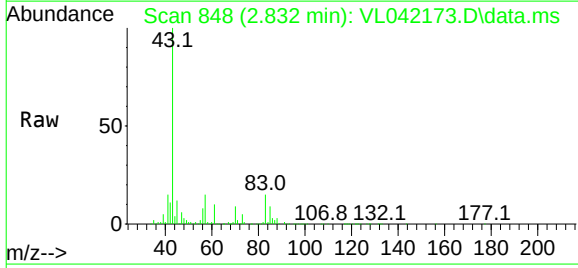
Tgt Ion: 63	Resp: 44740
Ion Ratio	Lower Upper
63 100	
98 4.9	2.3 6.8
100 3.3	1.6 4.7





#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

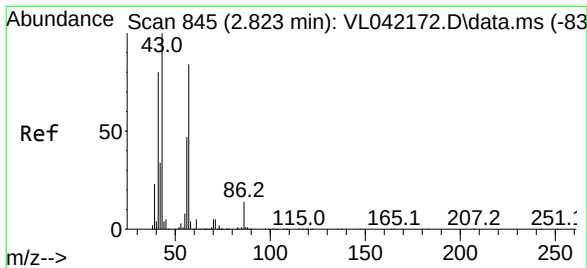
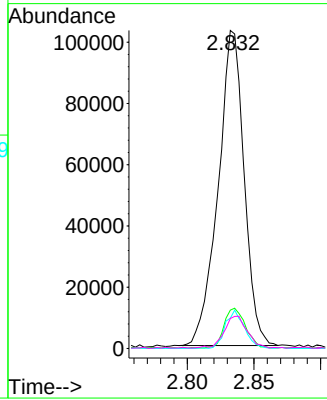
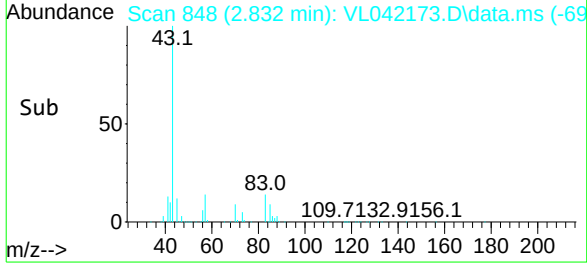
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 43 Resp: 139516
Ion Ratio Lower Upper
43 100
45 10.9 8.2 12.2
61 9.1 7.3 10.9
70 9.5 7.2 10.8

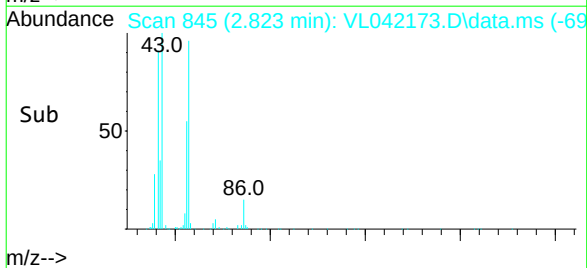
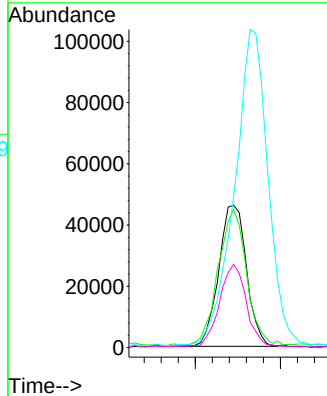
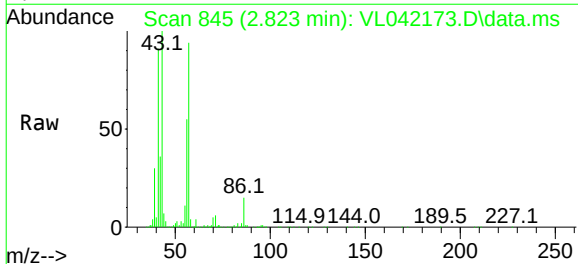
Manual Integrations
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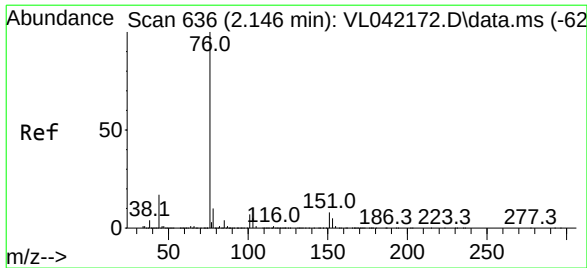
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#26
Hexane
Concen: 1.972 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

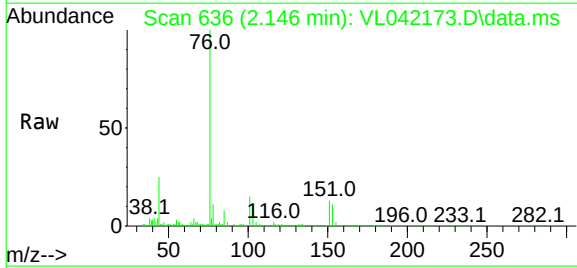
Tgt Ion: 57 Resp: 52095
Ion Ratio Lower Upper
57 100
41 100.9 76.6 114.8
43 274.8 207.8 311.8
56 61.1 43.6 65.4





#27
Carbon Disulfide
Concen: 2.047 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

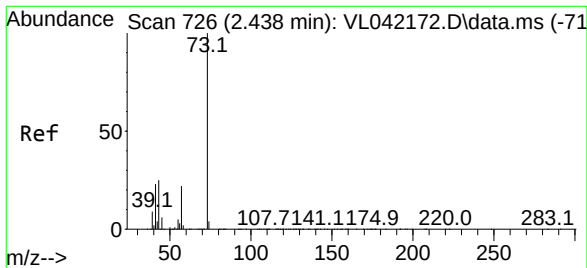
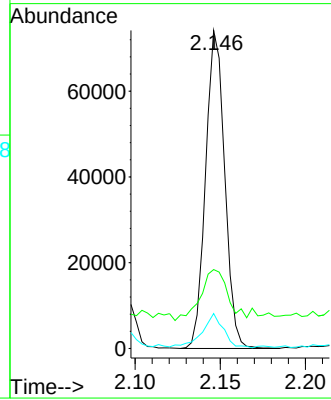
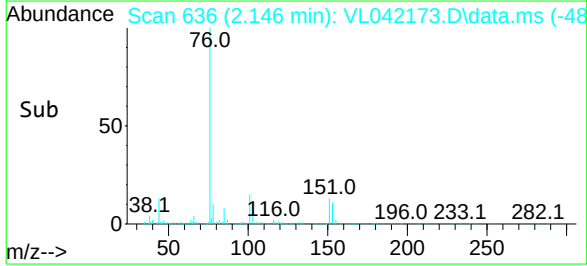
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



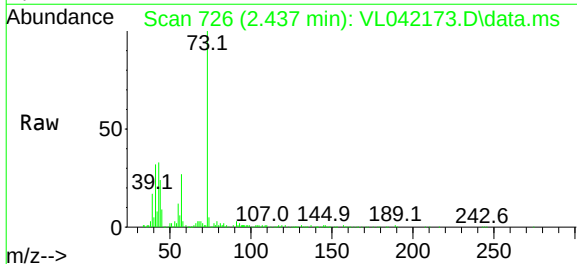
Tgt Ion: 76 Resp: 57969
Ion Ratio Lower Upper
76 100
44 35.2 14.7 22.1
78 12.0 9.3 13.9

Manual Integrations
APPROVED

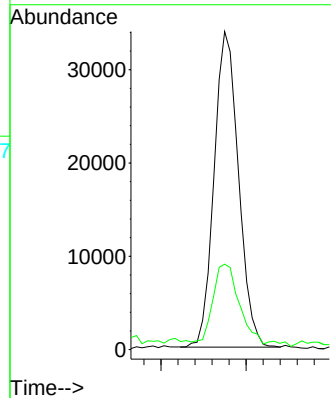
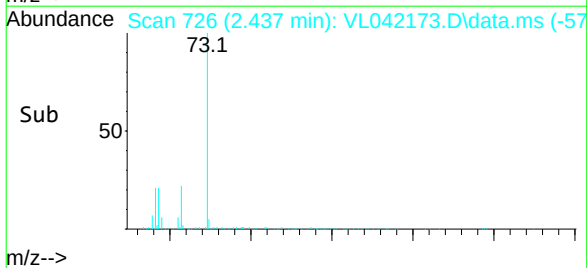
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

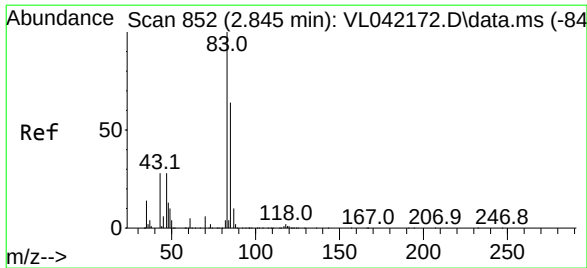


#28
Methyl tert-Butyl Ether
Concen: 2.049 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 73 Resp: 33703
Ion Ratio Lower Upper
73 100
57 25.2 20.5 30.7





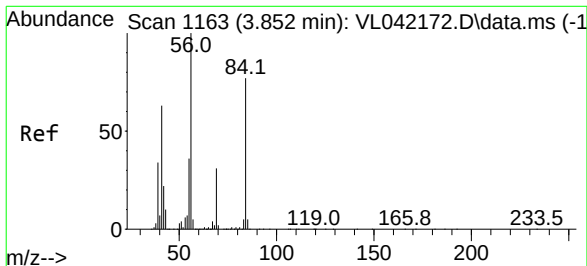
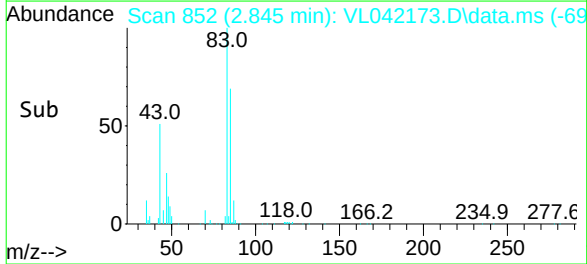
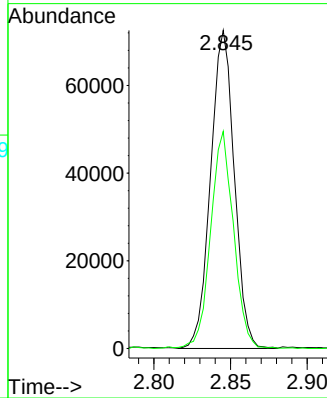
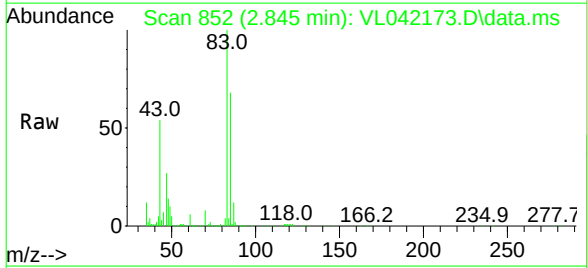
#29
Chloroform
Concen: 2.019 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion: 83 Resp: 78043
Ion Ratio Lower Upper
83 100
85 68.2 51.4 77.2

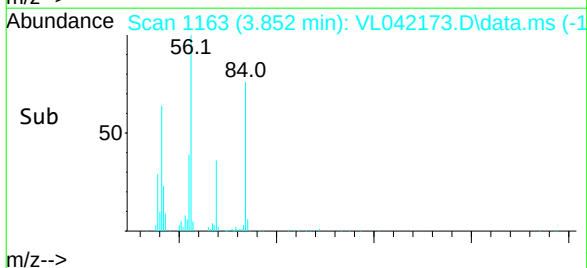
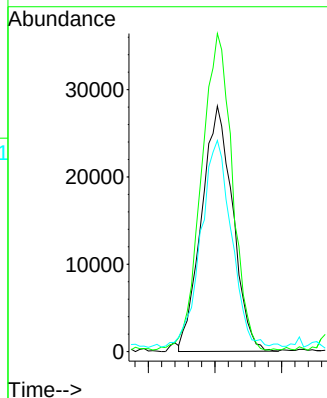
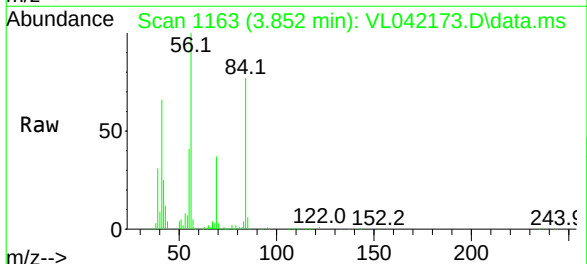
Manual Integrations
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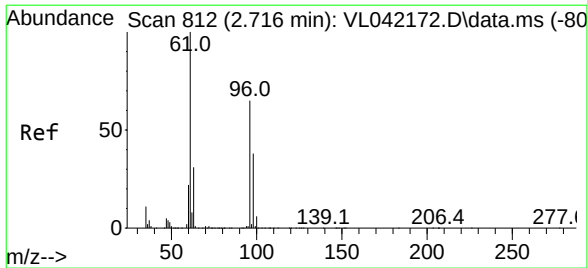
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#30
Cyclohexane
Concen: 1.989 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion: 84 Resp: 45641
Ion Ratio Lower Upper
84 100
56 127.8 102.8 154.2
41 84.6 66.5 99.7





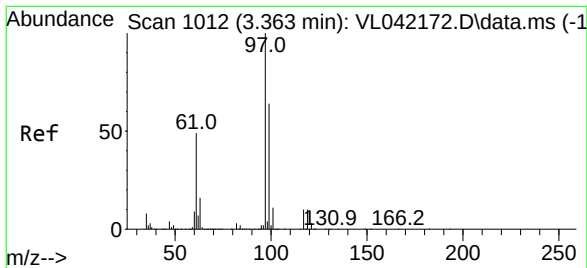
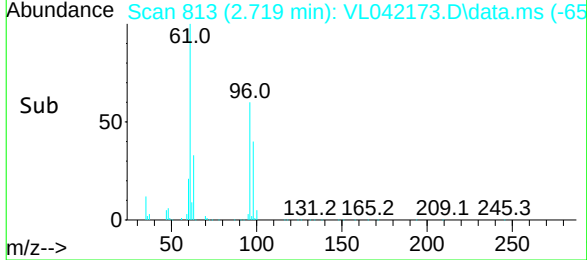
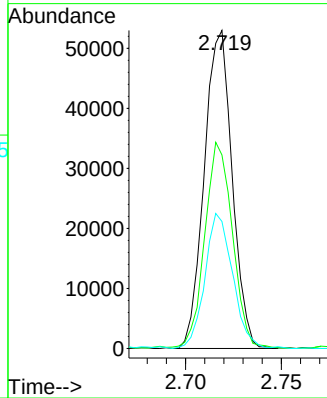
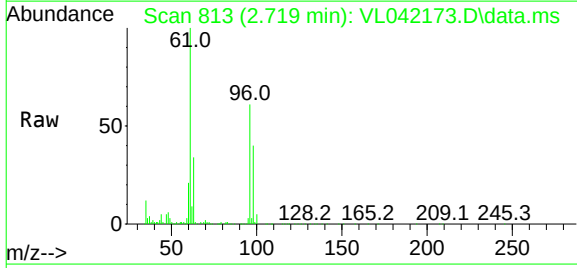
#31
 cis-1,2-Dichloroethene
 Concen: 2.003 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Tgt Ion:	61	Resp:	53713
Ion	Ratio	Lower	Upper
61	100		
96	60.6	51.8	77.8
98	39.6	30.6	46.0

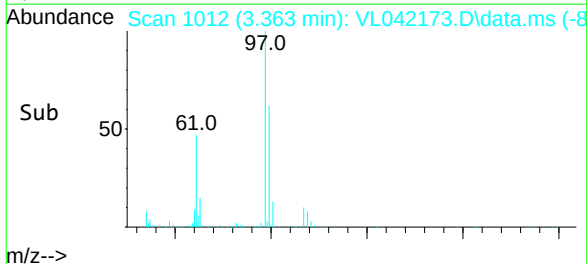
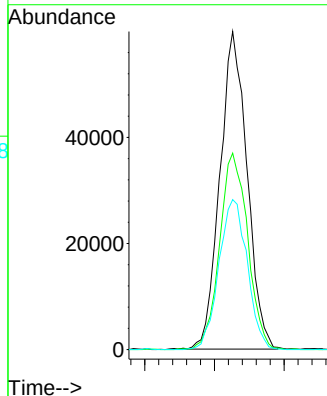
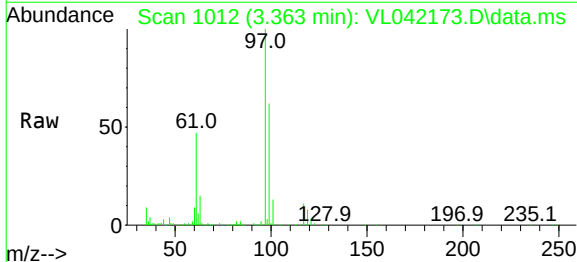
Manual Integrations
 APPROVED

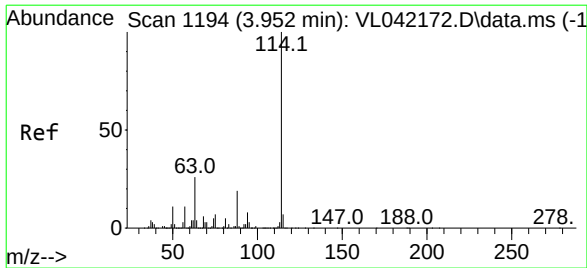
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#32
 1,1,1-Trichloroethane
 Concen: 1.833 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

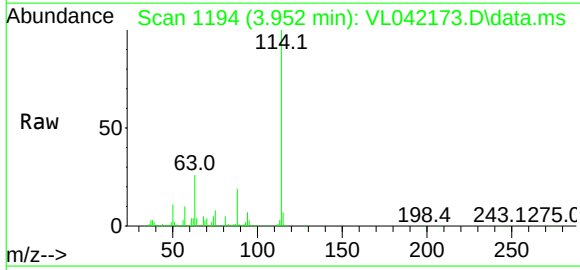
Tgt Ion:	97	Resp:	81070
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.5	77.3
61	49.3	38.7	58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

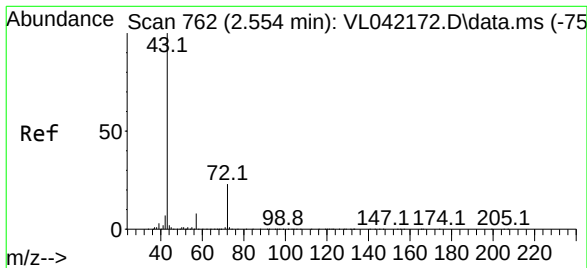
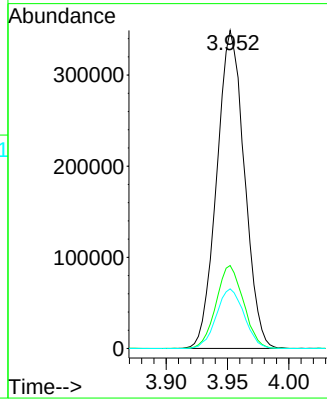
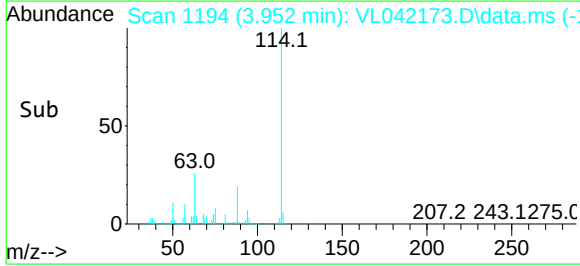
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



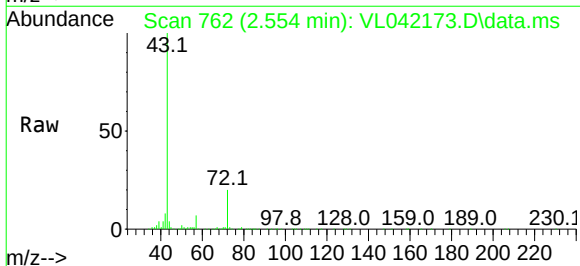
Tgt Ion: 114 Resp: 546394
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.9 15.0 22.4

Manual Integrations
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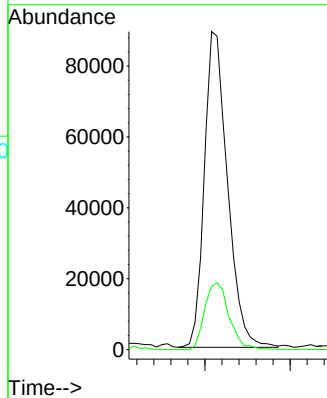
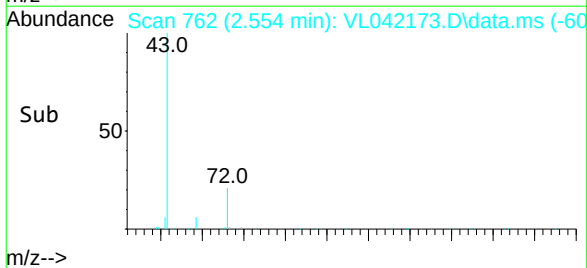
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

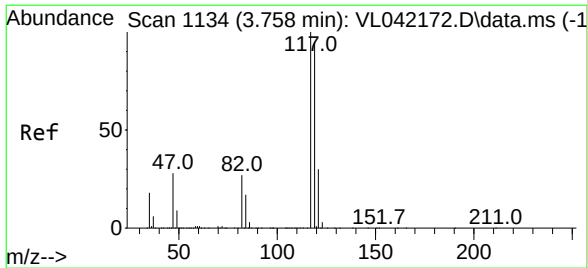


#34
2-Butanone
Concen: 2.124 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 43 Resp: 84157
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2





#35

Carbon Tetrachloride

Concen: 1.944 ppbv

RT: 3.758 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042173.D

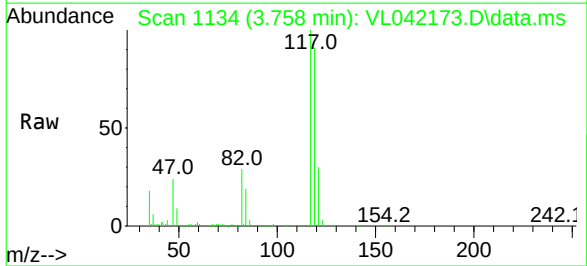
Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002



Tgt Ion: 117 Resp: 81735

Ion Ratio Lower Upper

117 100

119 90.8 76.2 114.2

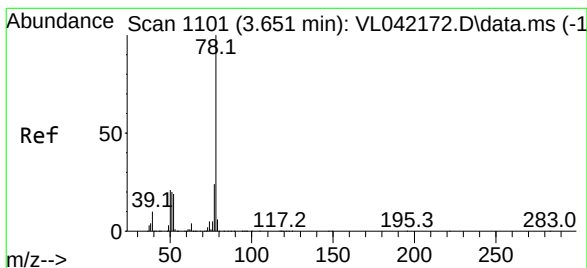
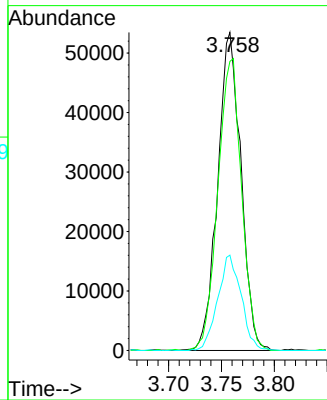
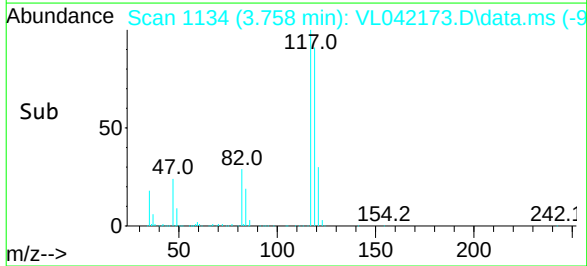
121 30.0 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#36

Benzene

Concen: 2.044 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

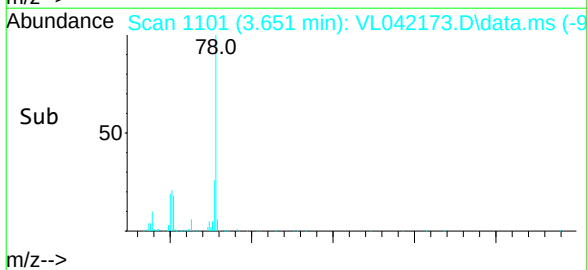
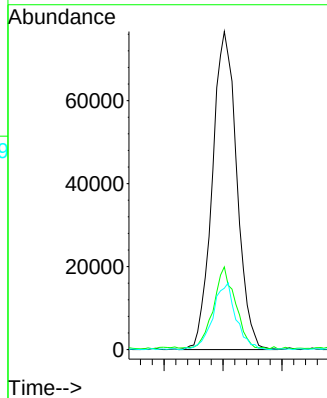
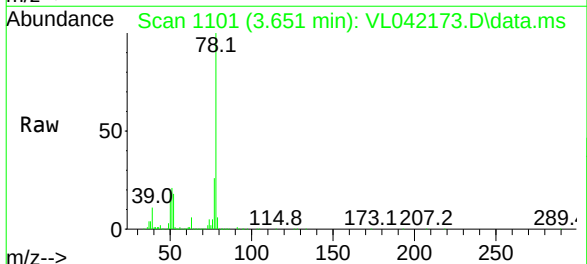
Tgt Ion: 78 Resp: 110727

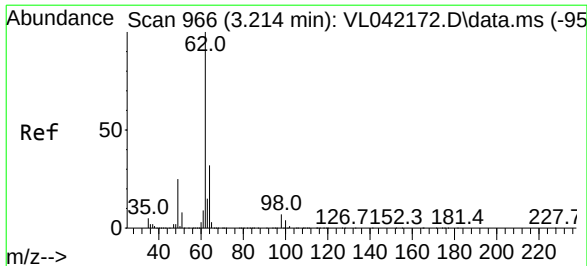
Ion Ratio Lower Upper

78 100

77 25.7 19.1 28.7

50 19.3 16.6 24.8





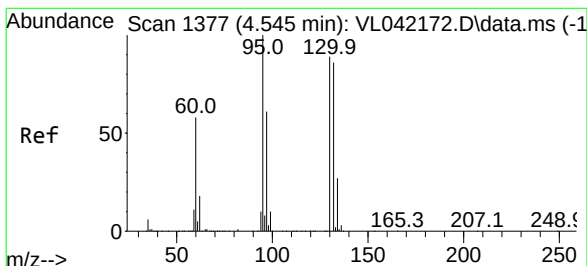
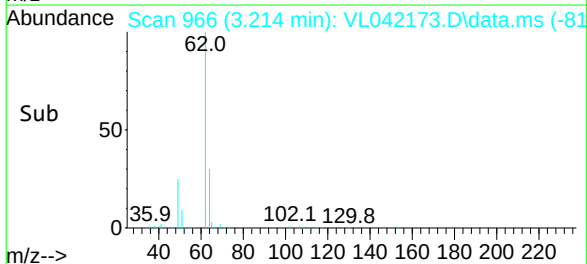
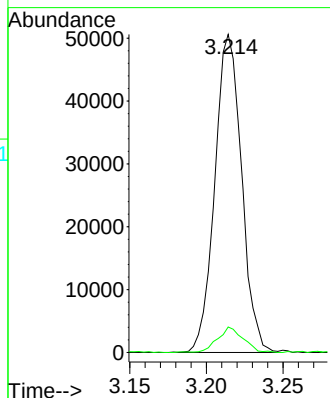
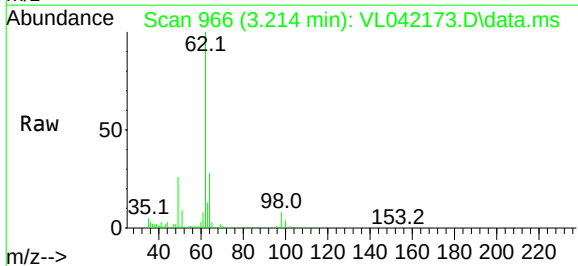
#37
1,2-Dichloroethane
Concen: 1.982 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Tgt Ion: 62 Resp: 61476
Ion Ratio Lower Upper
62 100
98 7.7 5.4 8.2

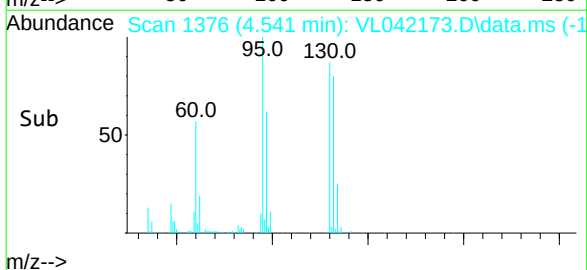
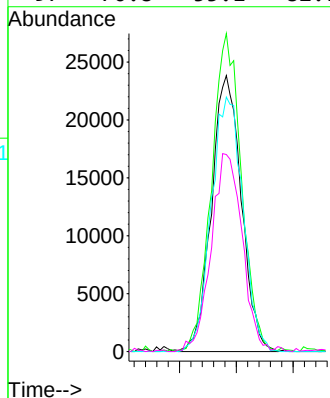
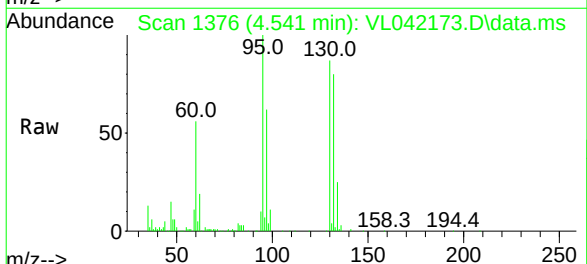
Manual Integrations
APPROVED

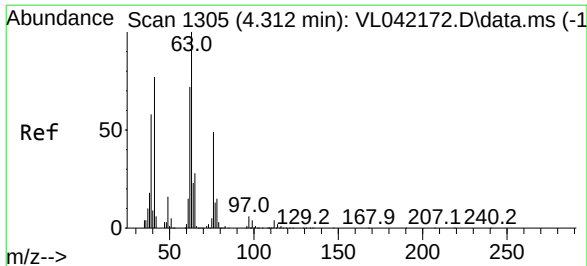
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 1.924 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

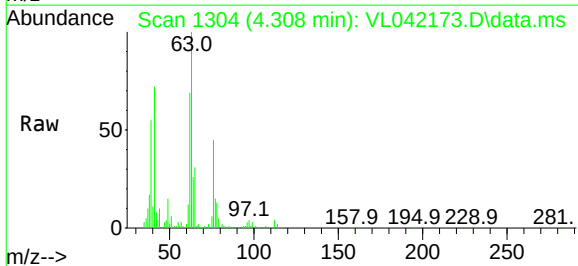
Tgt Ion:130 Resp: 43501
Ion Ratio Lower Upper
130 100
95 114.8 89.8 134.8
132 92.2 77.4 116.2
97 70.8 55.1 82.7





#39
1,2-Dichloropropane
Concen: 2.023 ppbv
RT: 4.308 min Scan# 1305
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

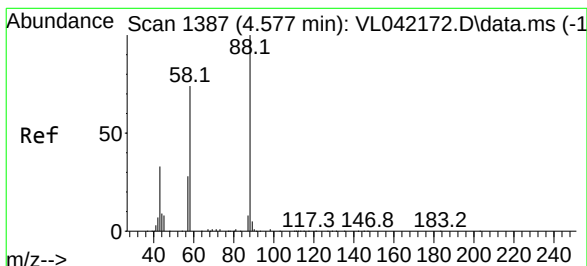
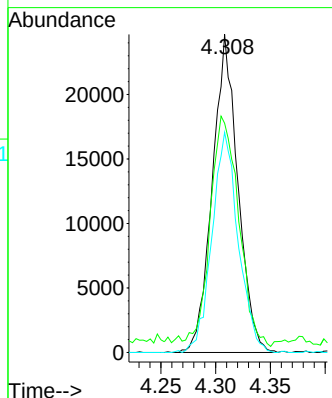
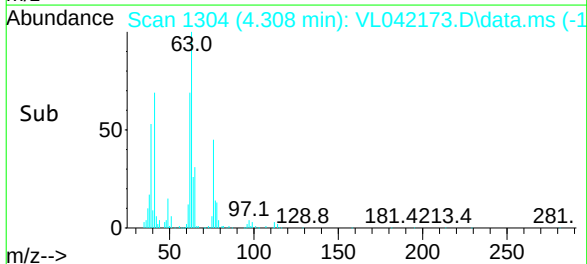
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



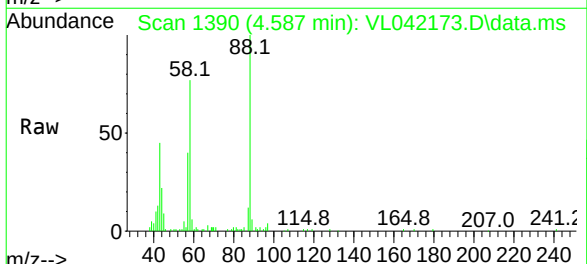
Tgt Ion: 63 Resp: 39912
Ion Ratio Lower Upper
63 100
41 68.6 61.7 92.5
62 69.2 57.6 86.4

Manual Integrations
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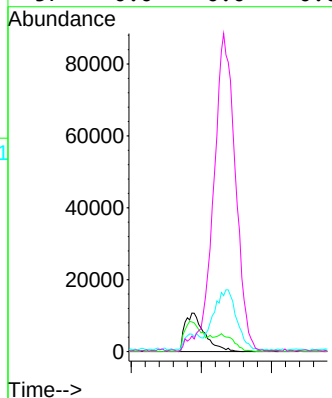
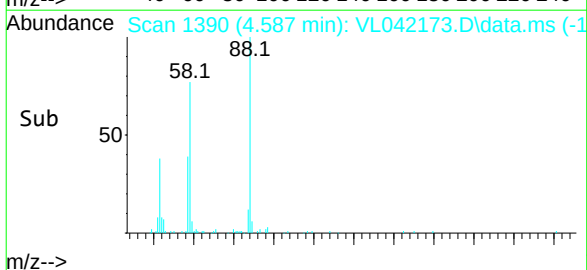
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

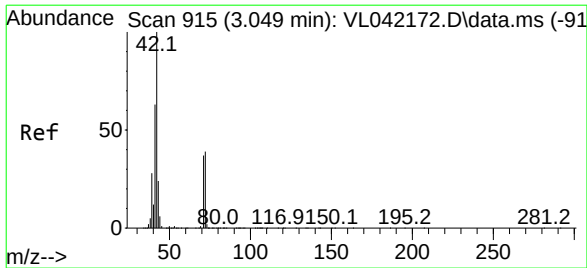


#40
1,4-Dioxane
Concen: 2.040 ppbv m
RT: 4.587 min Scan# 1390
Delta R.T. 0.009 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 88 Resp: 20884
Ion Ratio Lower Upper
88 100
58 119.5 62.7 94.1#
43 0.0 23.0 34.4#
57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 2.097 ppbv

RT: 3.056 min Scan# 91

Delta R.T. 0.006 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 42 Resp: 47262

Ion Ratio Lower Upper

42 100

72 39.6 31.4 47.0

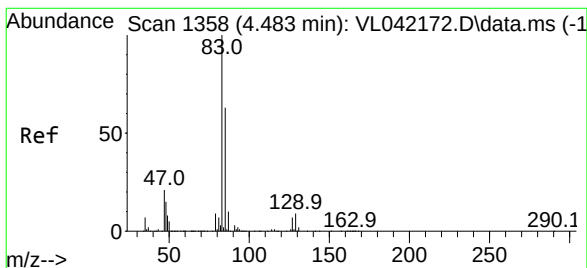
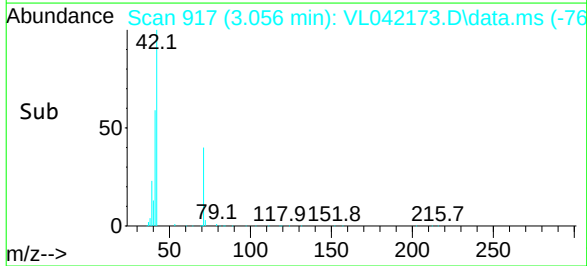
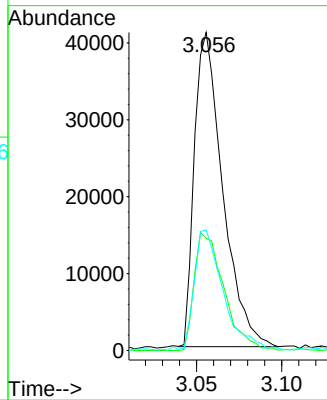
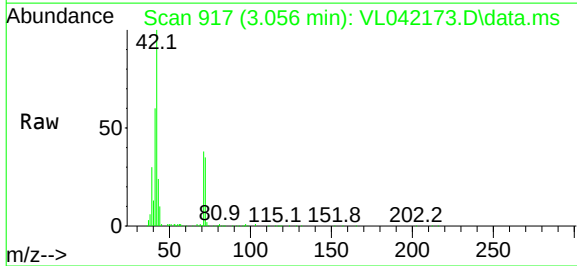
71 39.0 30.2 45.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 2.050 ppbv

RT: 4.483 min Scan# 1358

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

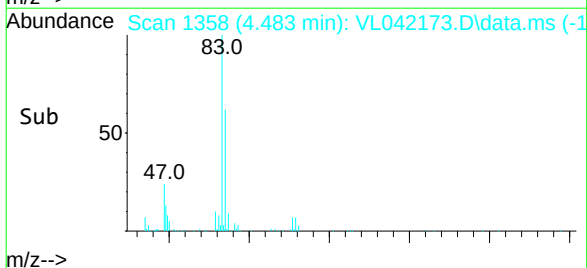
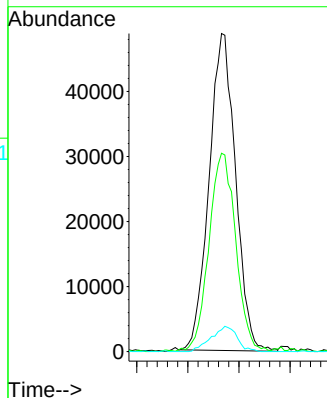
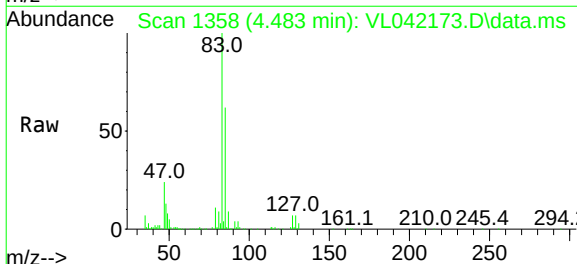
Tgt Ion: 83 Resp: 87640

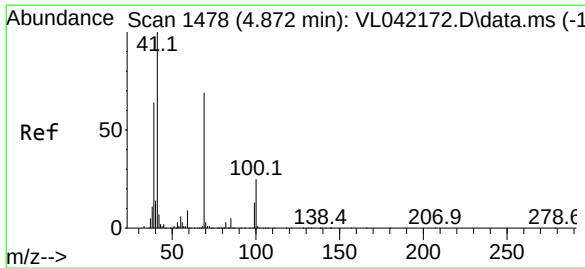
Ion Ratio Lower Upper

83 100

85 62.2 50.5 75.7

127 6.9 5.9 8.9





#43

Methyl Methacrylate

Concen: 1.952 ppbv

RT: 4.878 min Scan# 14

Delta R.T. 0.006 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 69 Resp: 44624

Ion Ratio Lower Upper

69 100

41 158.7 123.8 185.6

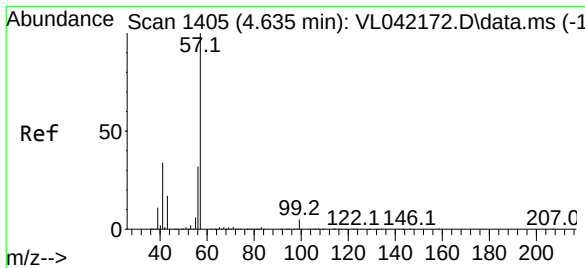
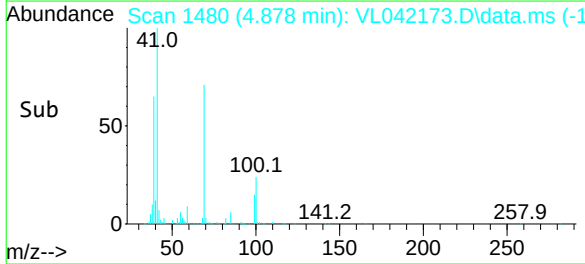
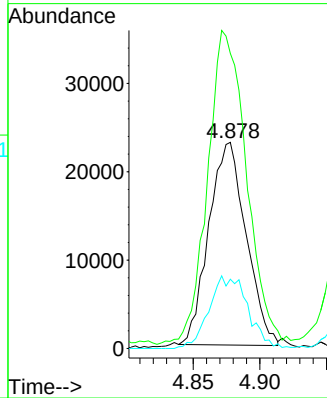
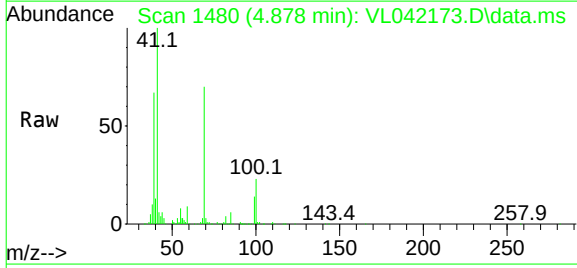
100 37.5 28.4 42.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#44

2,2,4-Trimethylpentane

Concen: 2.057 ppbv

RT: 4.632 min Scan# 1404

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

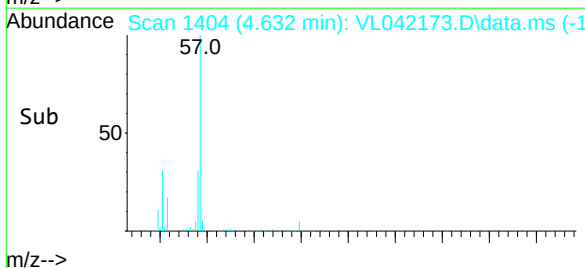
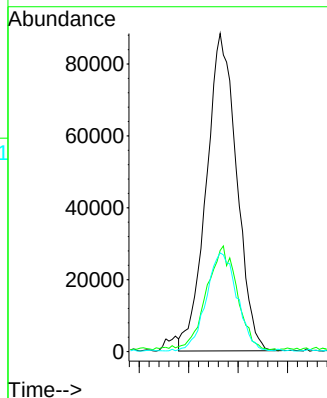
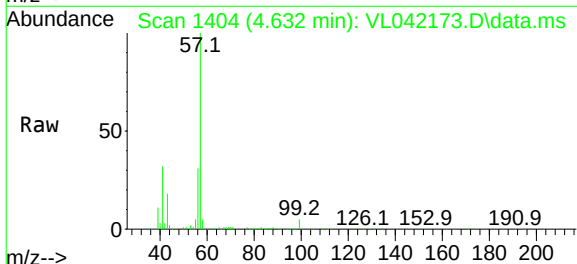
Tgt Ion: 57 Resp: 188282

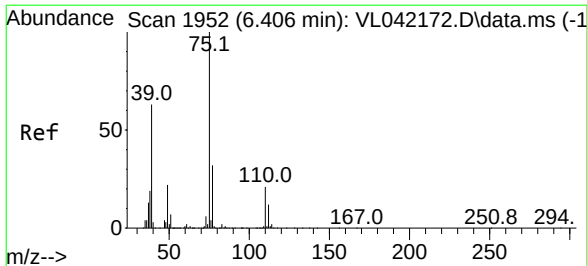
Ion Ratio Lower Upper

57 100

41 33.8 26.8 40.2

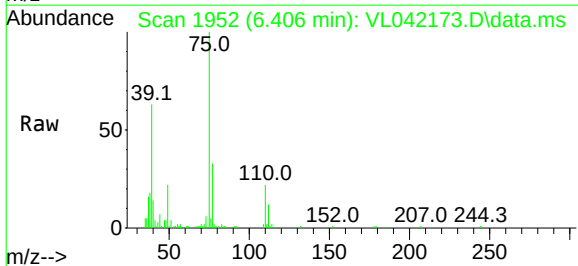
56 31.8 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 2.011 ppbv
RT: 6.406 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

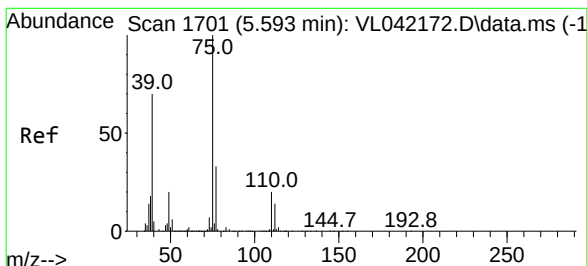
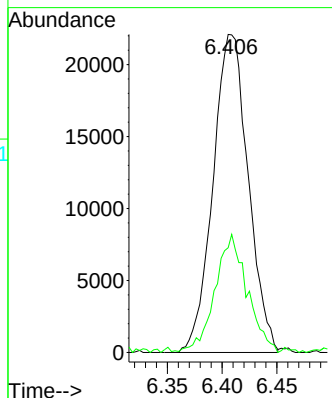
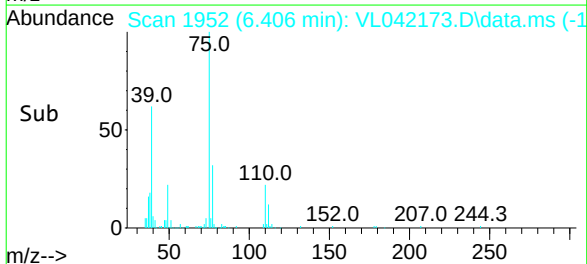
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 75 Resp: 49461
Ion Ratio Lower Upper
75 100
77 32.9 26.0 39.0

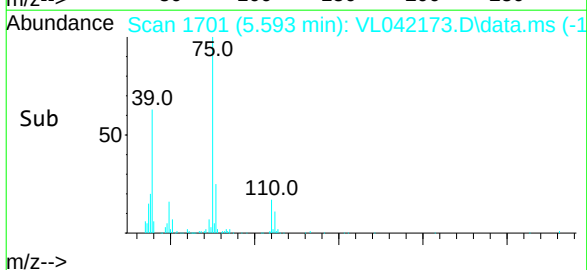
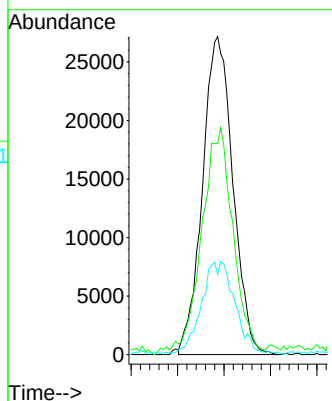
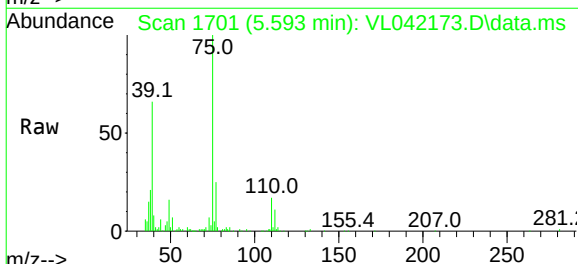
Manual Integrations
APPROVED

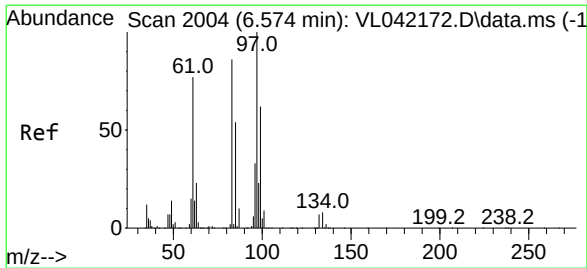
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#46
cis-1,3-Dichloropropene
Concen: 2.050 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

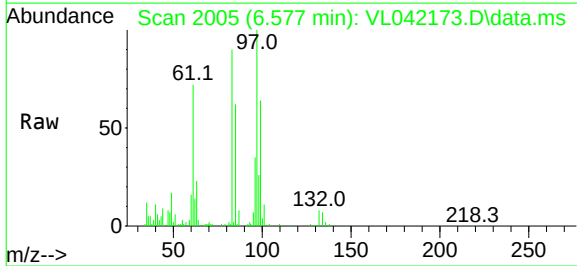
Tgt Ion: 75 Resp: 61829
Ion Ratio Lower Upper
75 100
39 64.4 55.8 83.6
77 24.5 26.0 39.0#





#47
1,1,2-Trichloroethane
Concen: 1.985 ppbv
RT: 6.577 min Scan# 2004
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

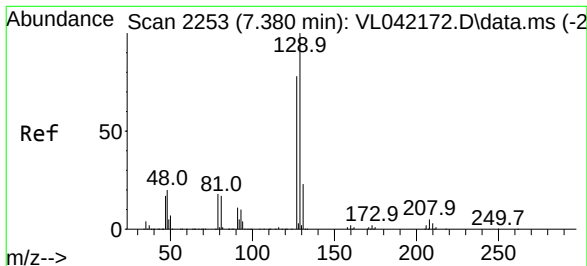
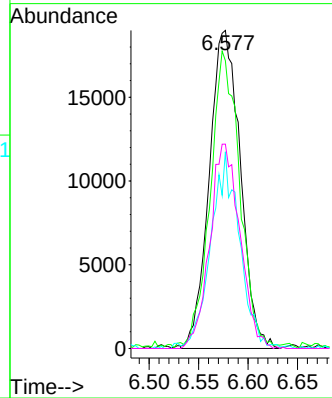
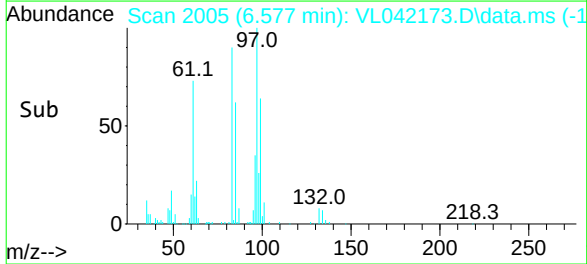
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 97 Resp: 41387
Ion Ratio Lower Upper
97 100
83 89.4 69.2 103.8
85 61.3 43.1 64.7
99 64.2 49.4 74.2

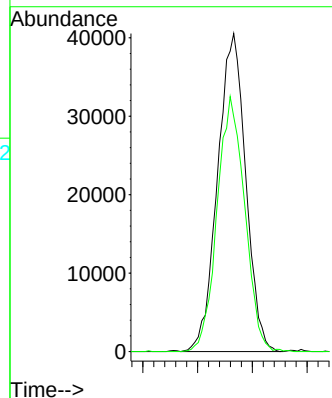
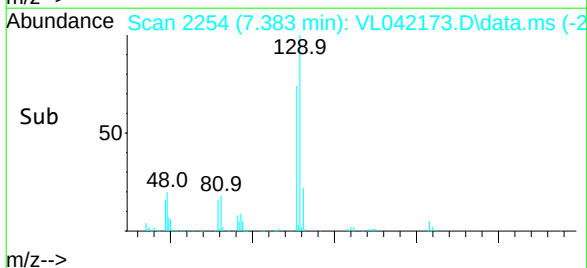
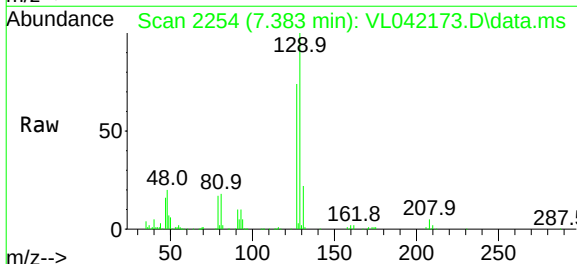
Manual Integrations
APPROVED

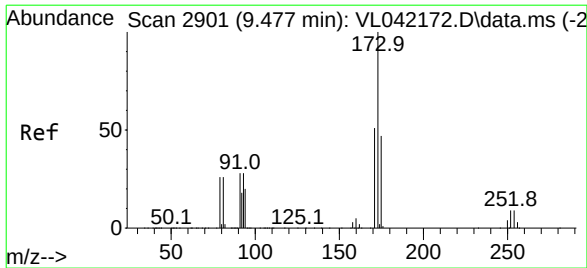
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 2.050 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:129 Resp: 72441
Ion Ratio Lower Upper
129 100
127 78.5 39.1 117.2





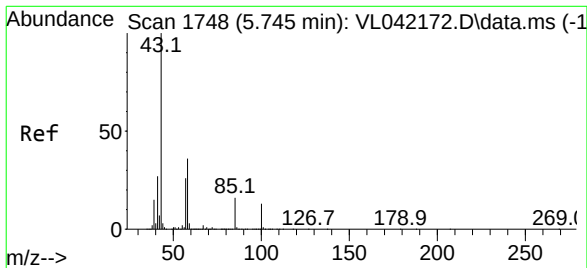
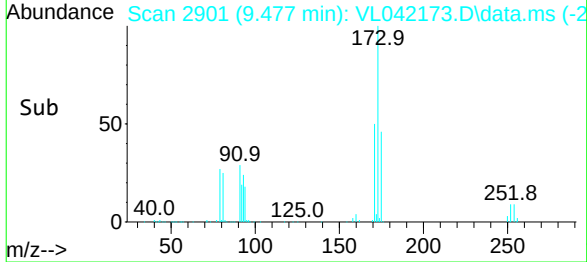
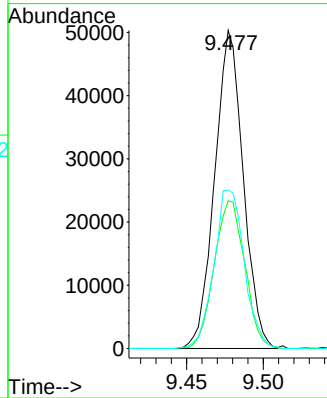
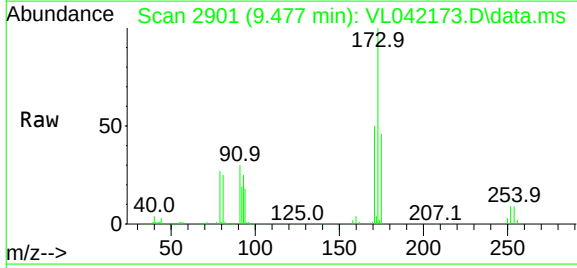
#49
Bromoform
Concen: 2.056 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.7	38.6	57.8
171	53.0	41.8	62.6

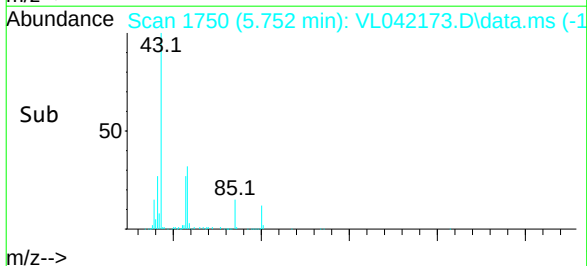
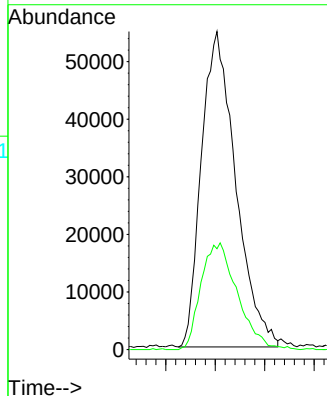
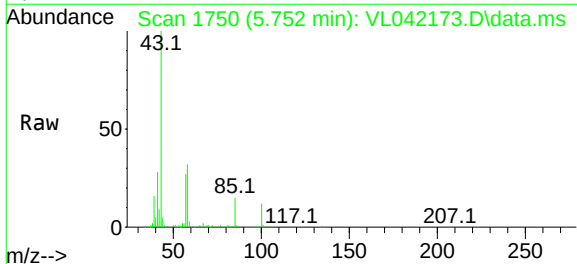
Manual Integrations
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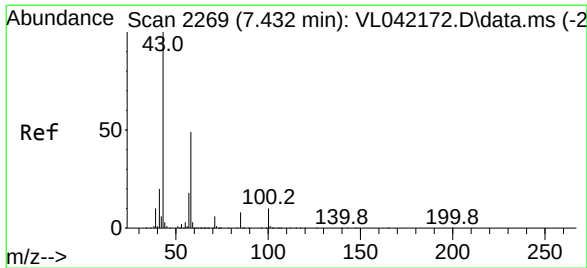
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 2.107 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.9	29.0	43.6





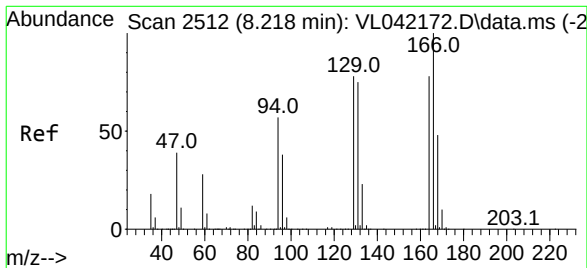
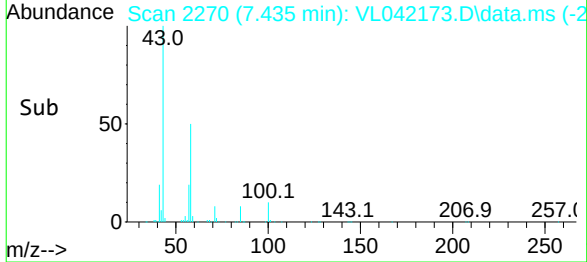
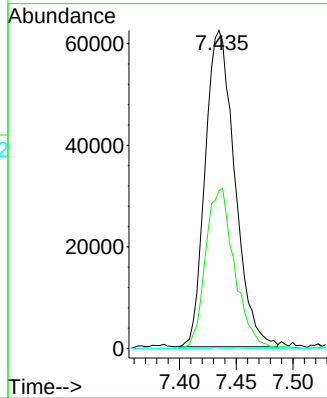
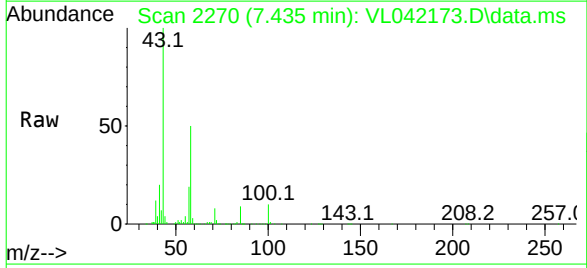
#51
2-Hexanone
Concen: 2.162 ppbv
RT: 7.435 min Scan# 2269
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

Tgt Ion: 43 Resp: 112681
Ion Ratio Lower Upper
43 100
58 50.0 39.7 59.5
98 0.0 0.1 0.1

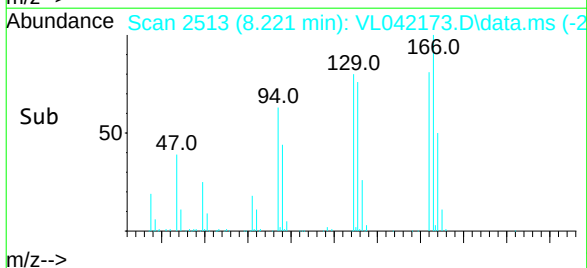
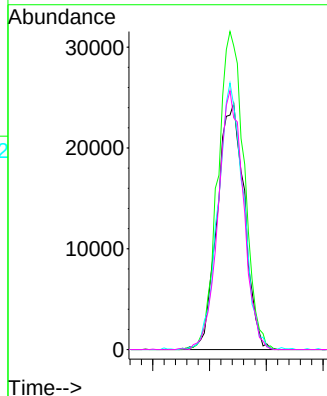
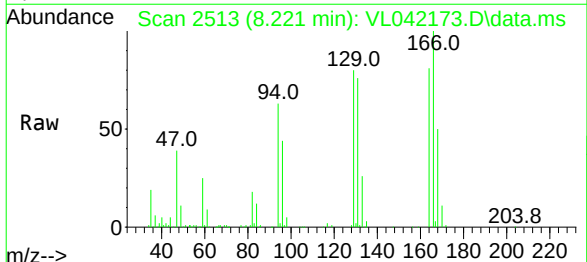
Manual Integrations
APPROVED

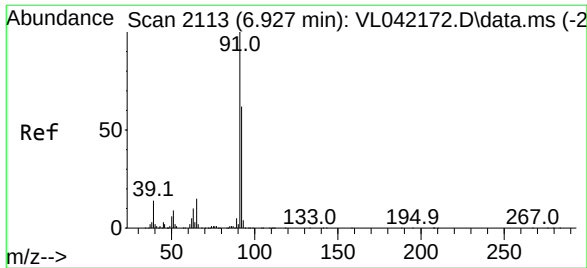
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#52
Tetrachloroethene
Concen: 1.888 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:164 Resp: 40558
Ion Ratio Lower Upper
164 100
166 123.4 102.5 153.7
129 99.2 79.8 119.8
131 94.1 76.6 114.8





#53

Toluene

Concen: 2.045 ppbv

RT: 6.923 min Scan# 2113

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 91 Resp: 131314

Ion Ratio Lower Upper

91 100

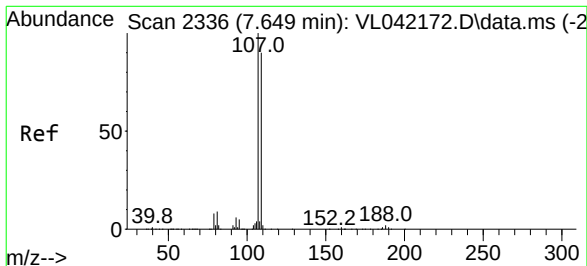
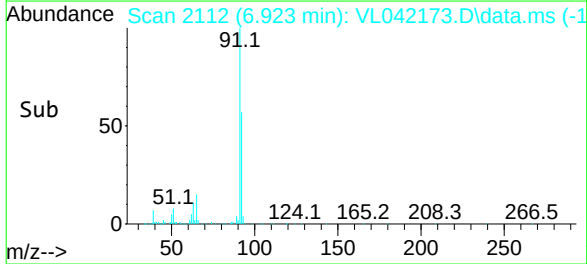
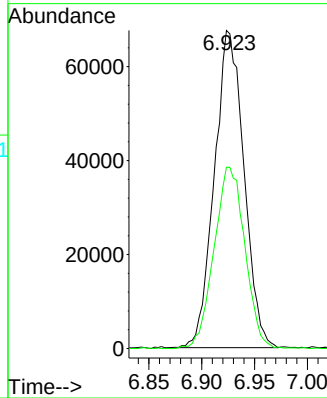
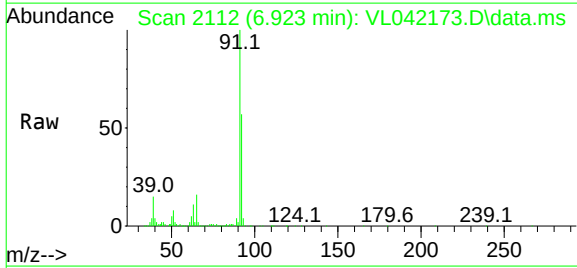
92 59.6 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 1.952 ppbv

RT: 7.648 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VL042173.D

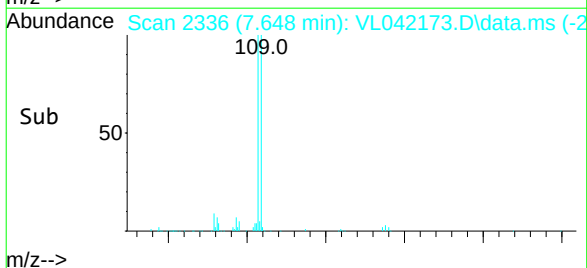
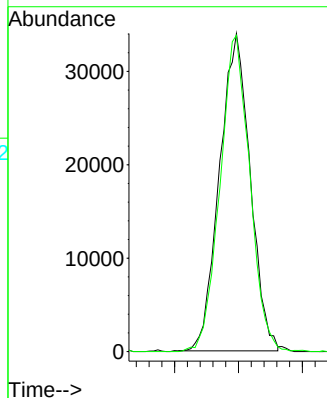
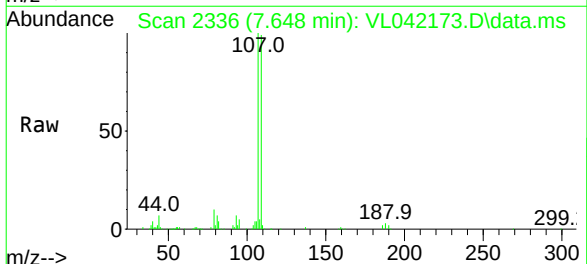
Acq: 27 Mar 2025 08:59

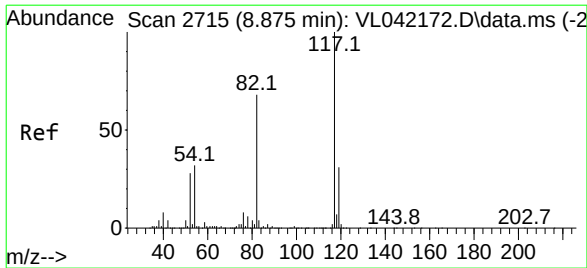
Tgt Ion:107 Resp: 56799

Ion Ratio Lower Upper

107 100

109 99.7 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

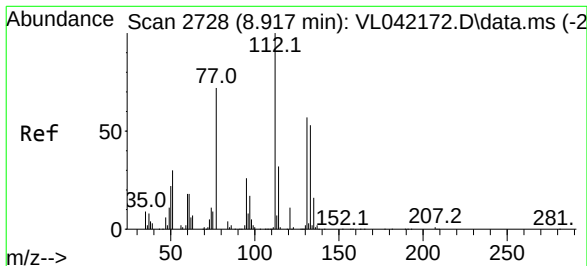
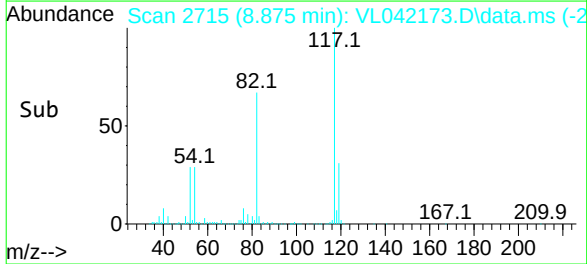
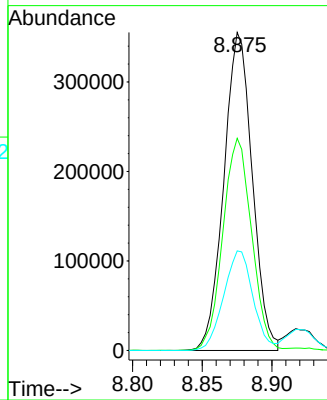
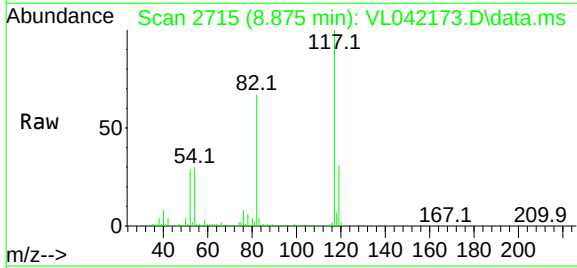
VSTDIC002

Tgt Ion:	117	Resp:	504538
Ion	Ratio	Lower	Upper
117	100		
82	68.2	55.8	83.6
119	33.0	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.093 ppbv

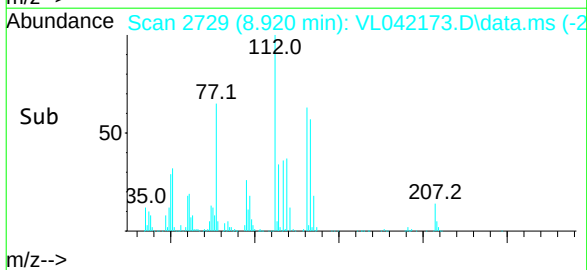
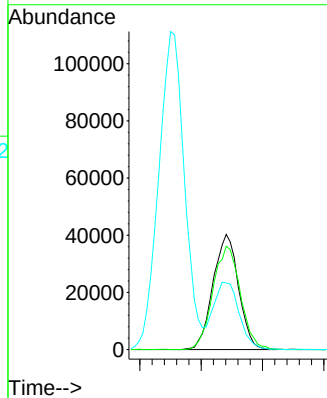
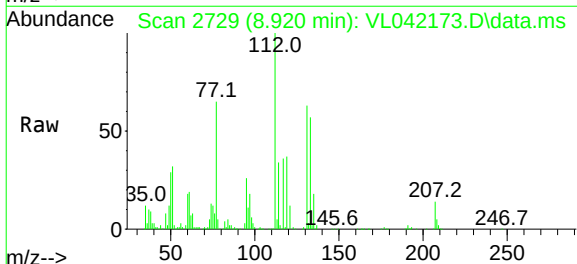
RT: 8.920 min Scan# 2729

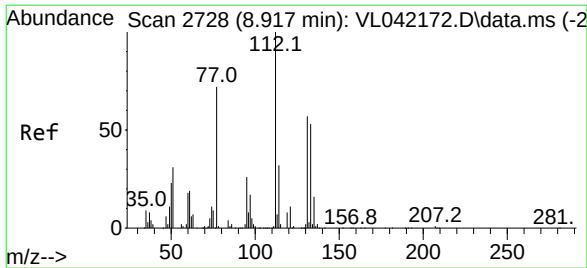
Delta R.T. 0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	131	Resp:	58141
Ion	Ratio	Lower	Upper
131	100		
133	96.6	76.6	114.8
119	58.3	49.8	74.6





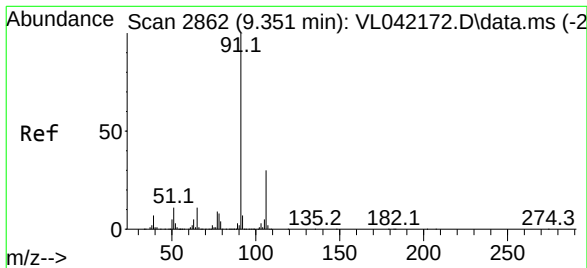
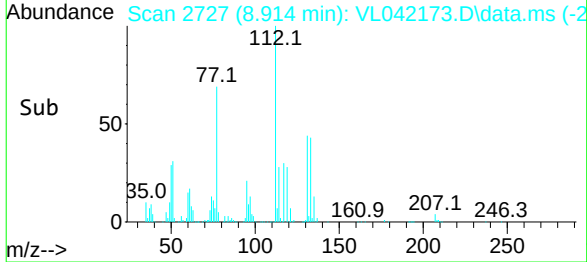
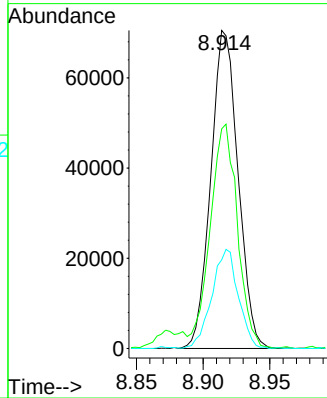
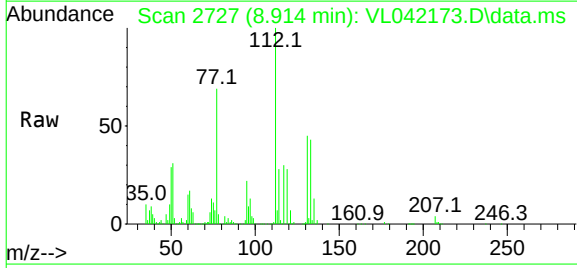
#57
Chlorobenzene
Concen: 2.096 ppbv
RT: 8.914 min Scan# 2728
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Tgt Ion: 112 Resp: 100308
Ion Ratio Lower Upper
112 100
77 68.8 58.2 87.2
114 27.8 29.1 35.5#

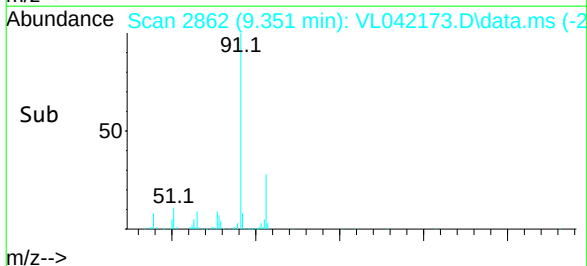
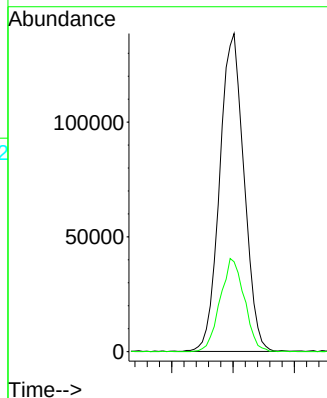
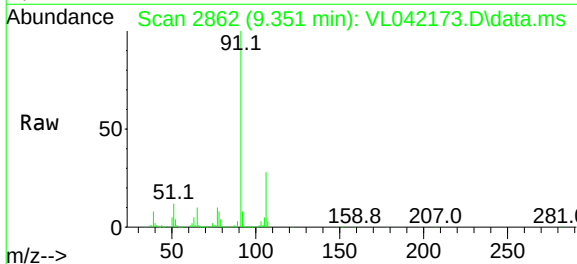
Manual Integrations
APPROVED

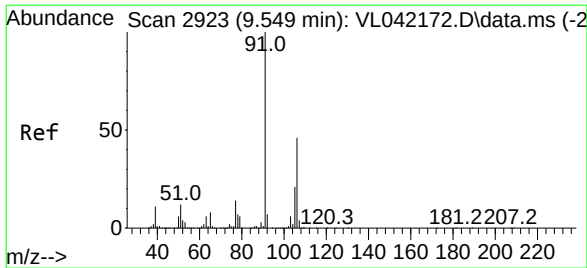
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 2.132 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

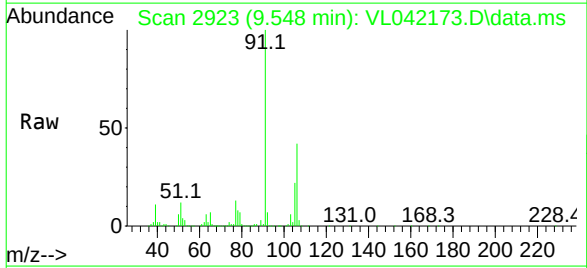
Tgt Ion: 91 Resp: 191114
Ion Ratio Lower Upper
91 100
106 28.3 24.2 36.2





#59
m/p-Xylene
Concen: 4.181 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

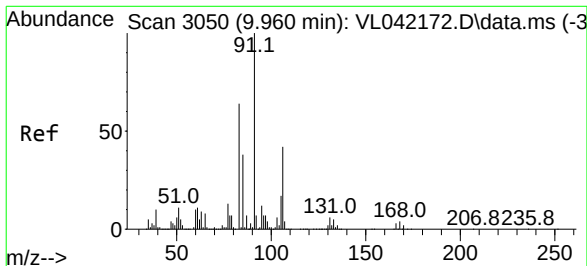
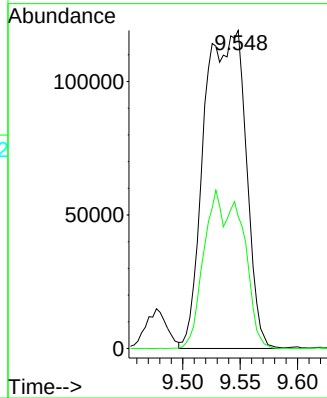
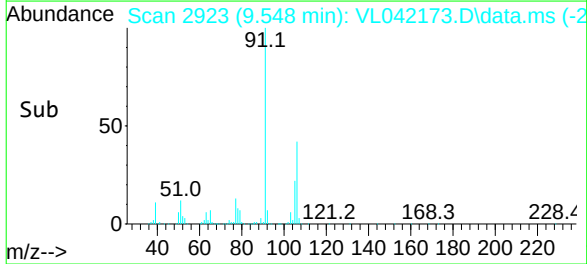
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



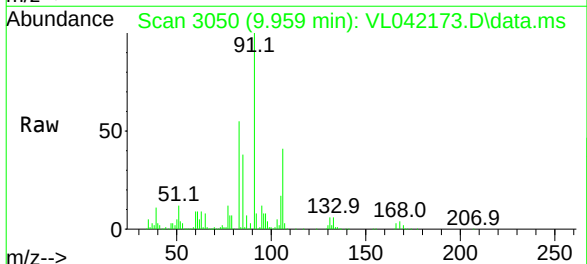
Tgt Ion: 91 Resp: 299531
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

Manual Integrations
APPROVED

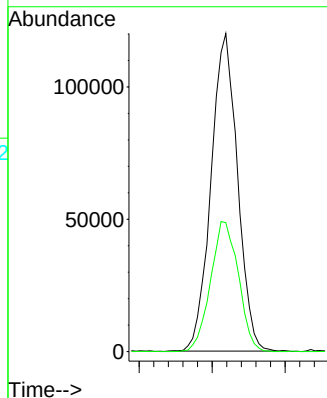
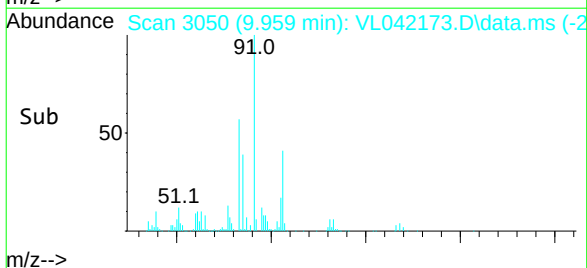
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

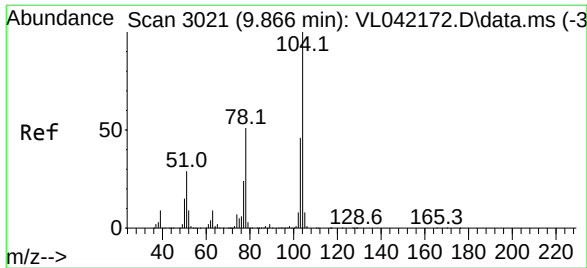


#60
o-Xylene
Concen: 2.109 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59



Tgt Ion: 91 Resp: 151292
Ion Ratio Lower Upper
91 100
106 43.2 20.8 62.5





#61

Styrene

Concen: 2.089 ppbv

RT: 9.865 min Scan# 3021

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

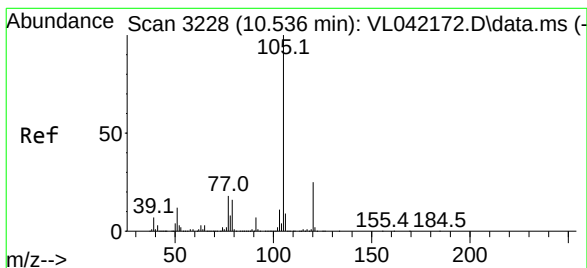
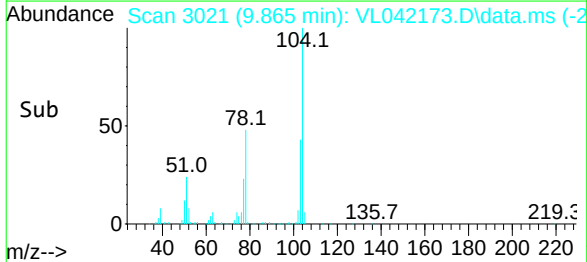
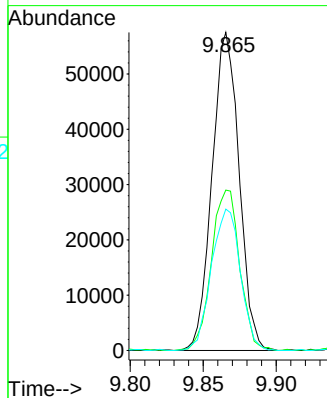
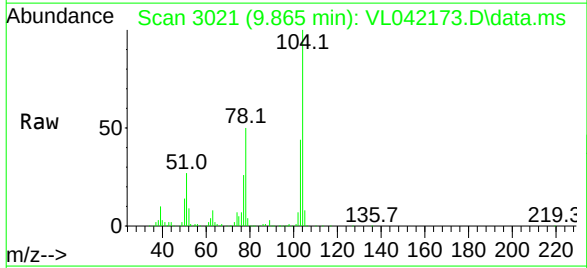
VSTDICC002

Tgt Ion:	104	Resp:	74134
Ion Ratio	Lower	Upper	
104	100		
78	52.8	41.8	62.6
103	47.8	37.0	55.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 2.127 ppbv

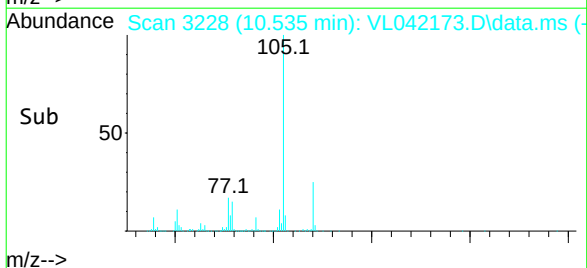
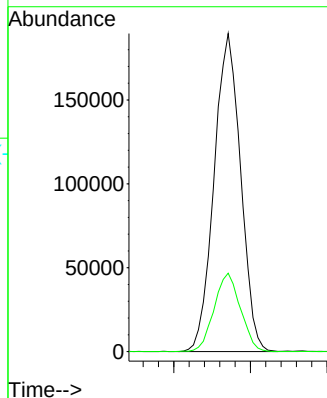
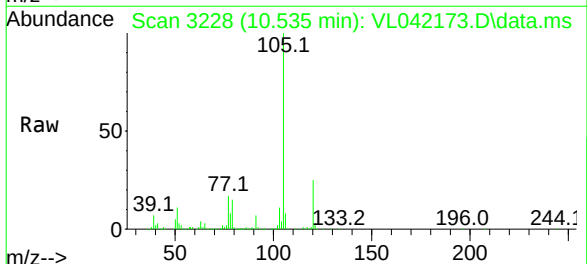
RT: 10.535 min Scan# 3228

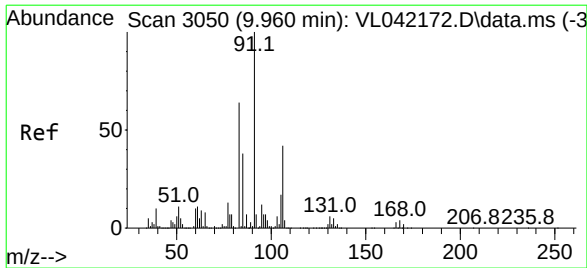
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

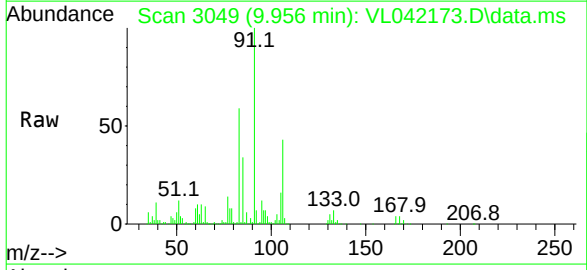
Tgt Ion:	105	Resp:	228191
Ion Ratio	Lower	Upper	
105	100		
120	24.4	19.9	29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 2.067 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.003 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

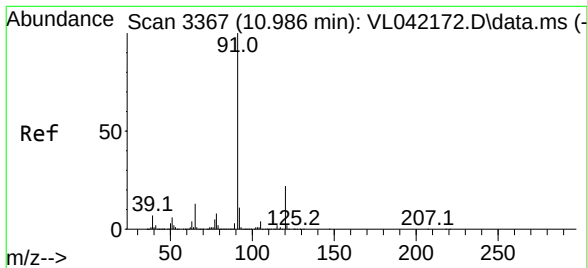
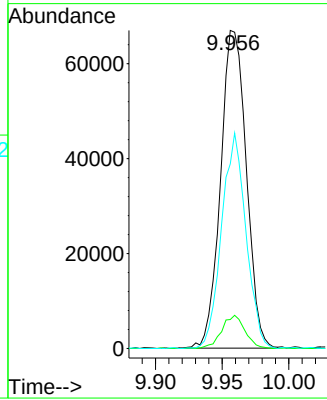
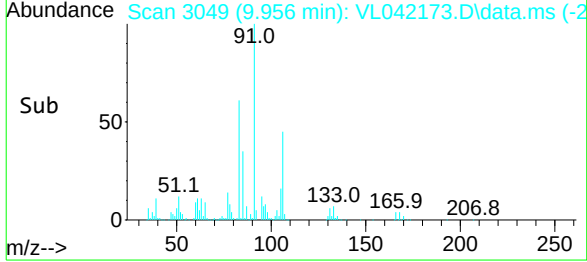
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



Tgt Ion:	83	Resp:	90114
Ion Ratio	Lower	Upper	
83	100		
131	9.5	4.8	14.4
85	64.4	32.5	97.5

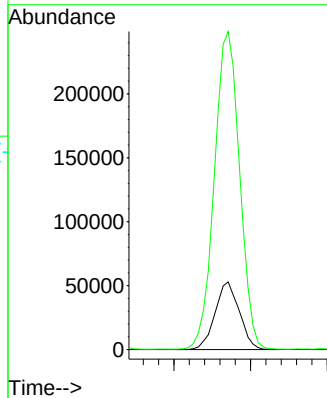
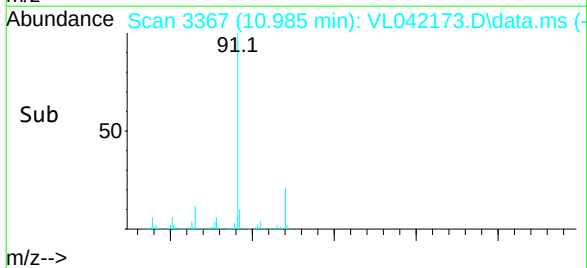
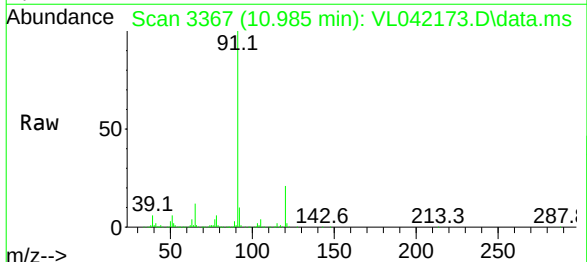
Manual Integrations
APPROVED

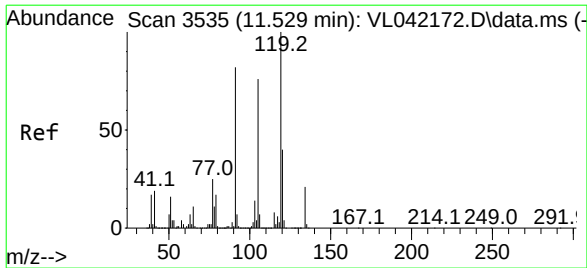
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 2.104 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:	120	Resp:	58105
Ion Ratio	Lower	Upper	
120	100		
91	491.1	376.9	565.3





#65

tert-Butylbenzene

Concen: 2.180 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

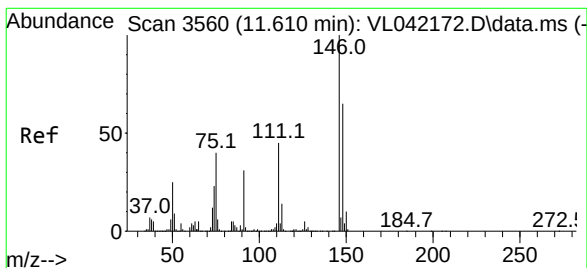
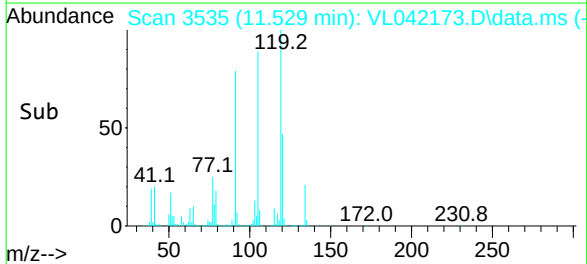
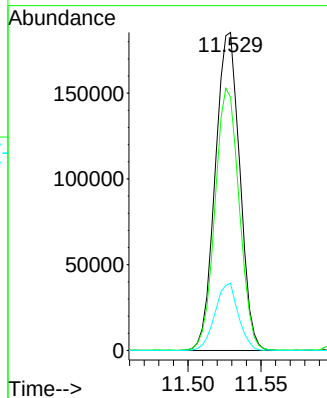
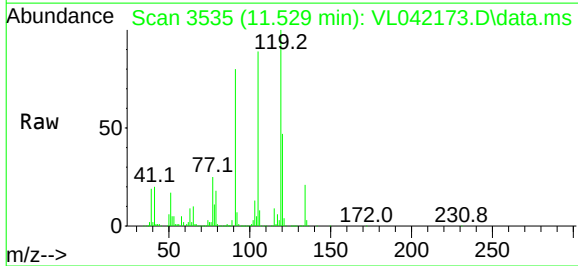
VSTDIC002

Tgt Ion:	119	Resp:	216336
Ion	Ratio	Lower	Upper
119	100		
91	81.5	66.0	99.0
134	20.2	16.7	25.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 2.116 ppbv

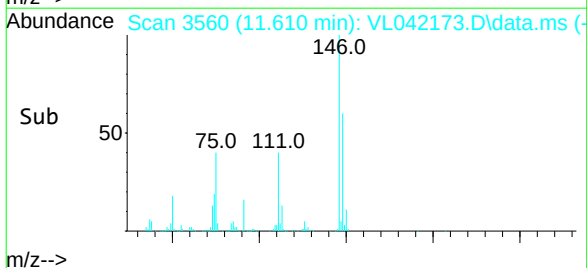
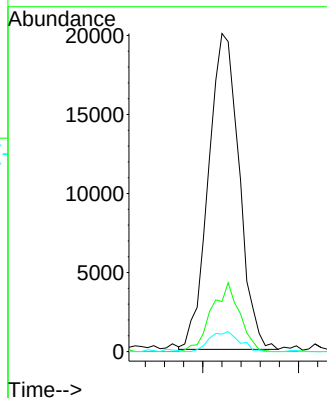
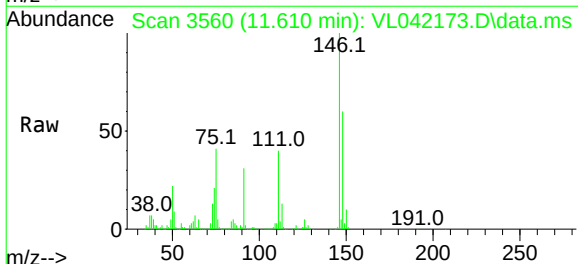
RT: 11.610 min Scan# 3560

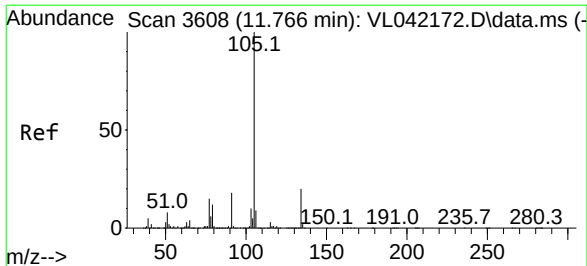
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	91	Resp:	22272
Ion	Ratio	Lower	Upper
91	100		
126	20.0	13.8	20.6
128	6.5	4.5	6.7





#67

sec-Butylbenzene

Concen: 2.156 ppbv

RT: 11.762 min Scan# 3608

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 105 Resp: 297381

Ion Ratio Lower Upper

105 100

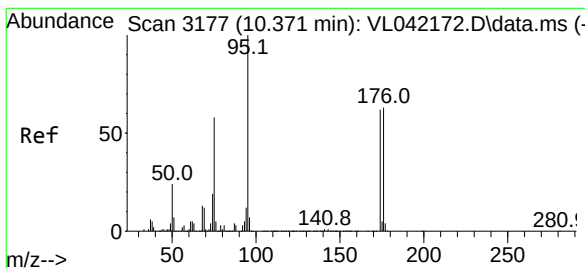
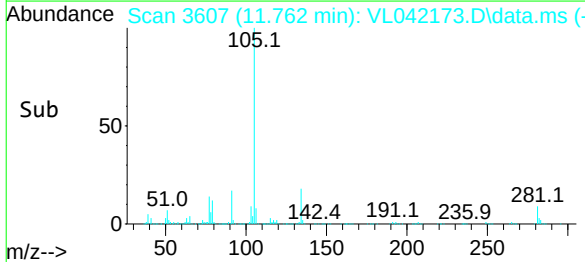
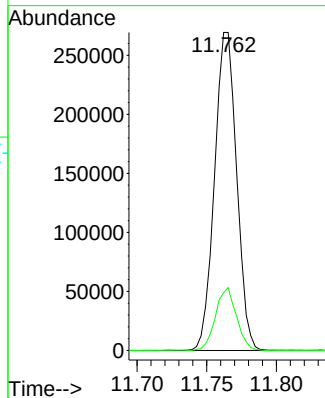
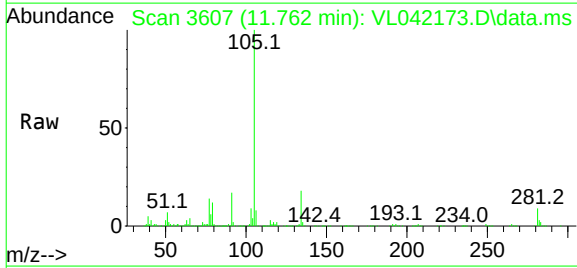
134 18.8 15.5 23.3

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025

Supervised By : Mahesh Dadoda 04/03/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.077 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

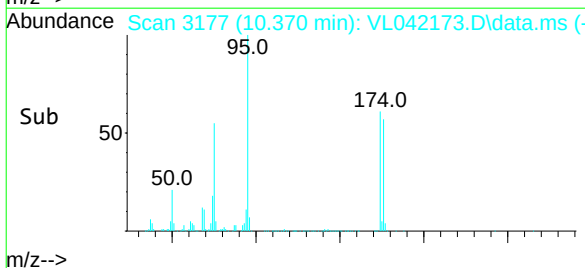
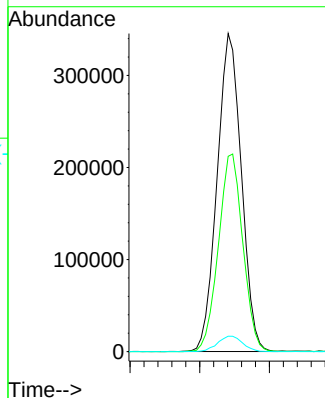
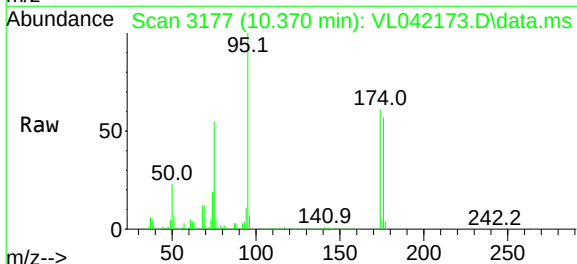
Tgt Ion: 95 Resp: 417532

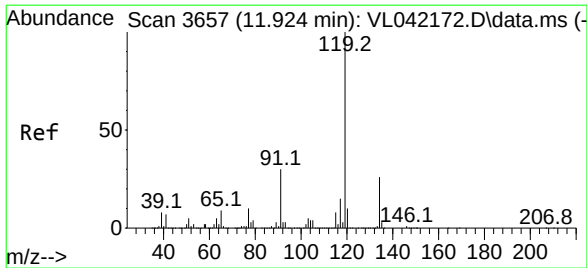
Ion Ratio Lower Upper

95 100

174 62.6 50.6 76.0

175 5.0 3.8 5.6





#69

p-Isopropyltoluene

Concen: 2.176 ppbv

RT: 11.921 min Scan# 3657

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

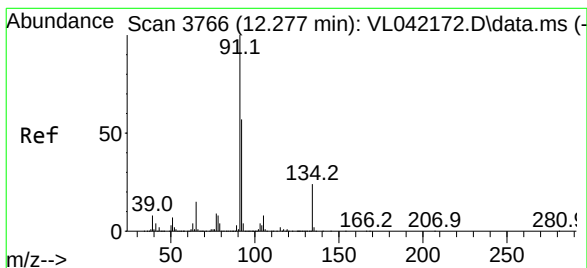
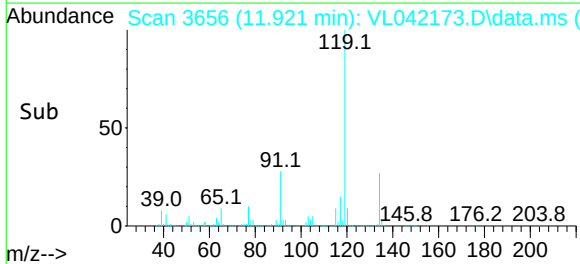
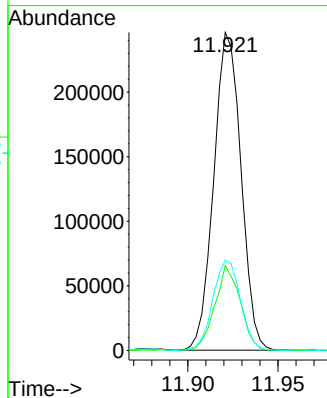
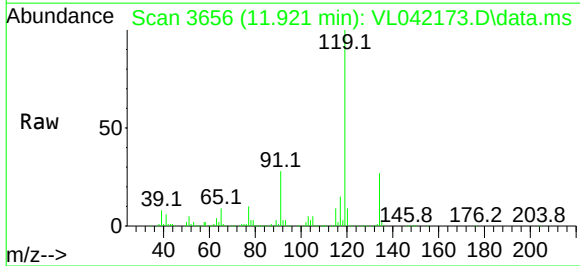
VSTDICC002

Tgt Ion:	119	Resp:	258357
Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.4	30.6
91	29.5	23.7	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 2.228 ppbv

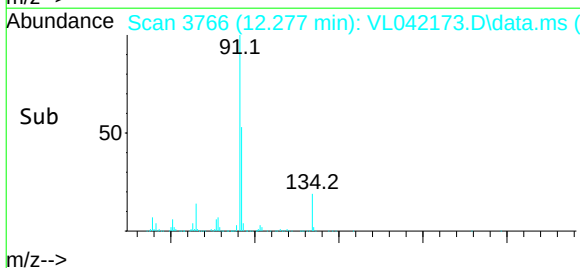
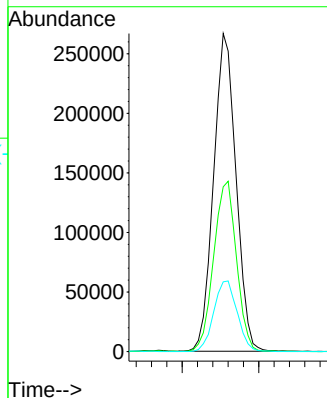
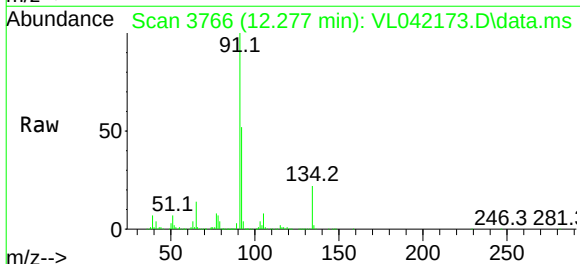
RT: 12.277 min Scan# 3766

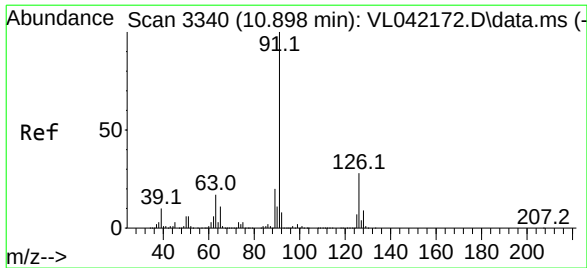
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	91	Resp:	270616
Ion	Ratio	Lower	Upper
91	100		
92	55.1	44.9	67.3
134	23.3	19.2	28.8





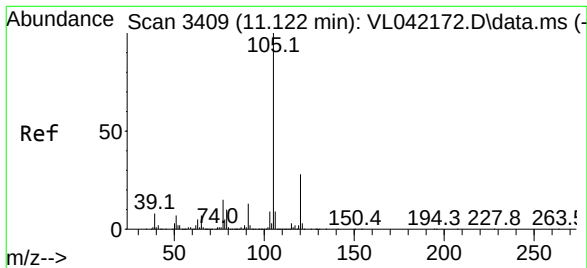
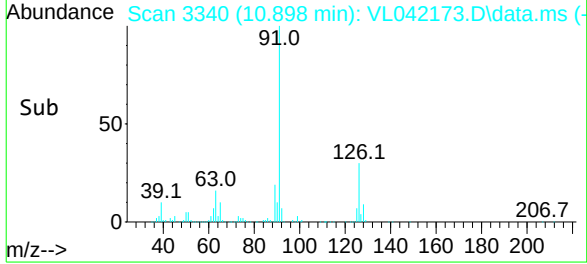
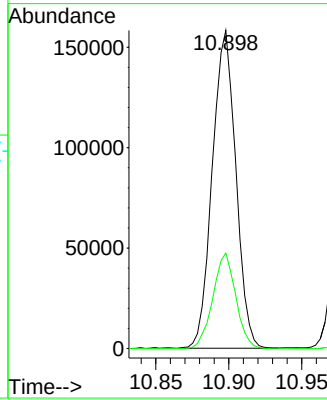
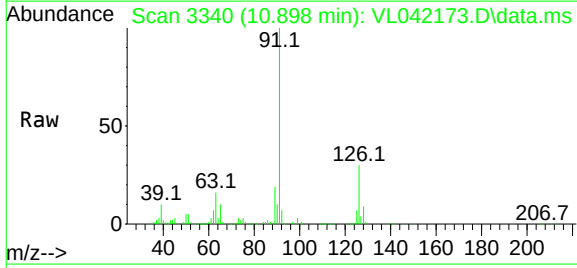
#71
2-Chlorotoluene
Concen: 2.132 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Instrument : MSVOA_L
ClientSampleId : VSTDICC002

Tgt Ion: 91 Resp: 177487
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4

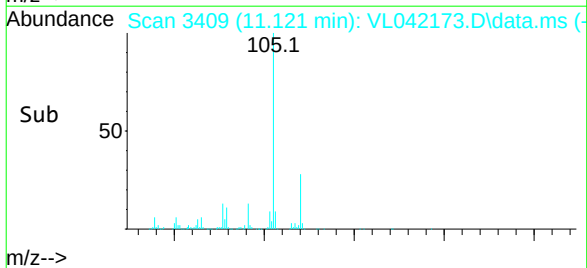
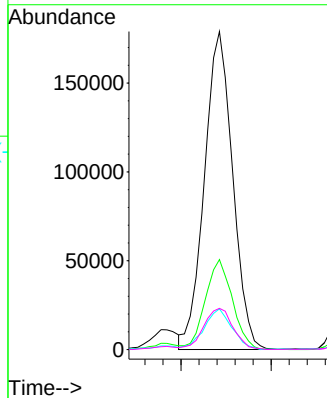
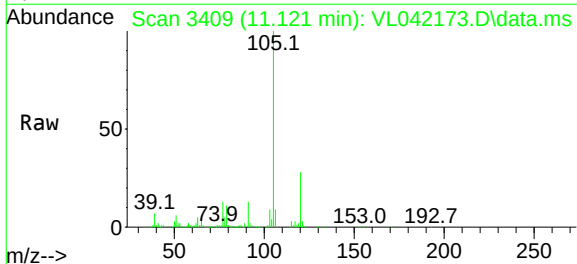
Manual Integrations
APPROVED

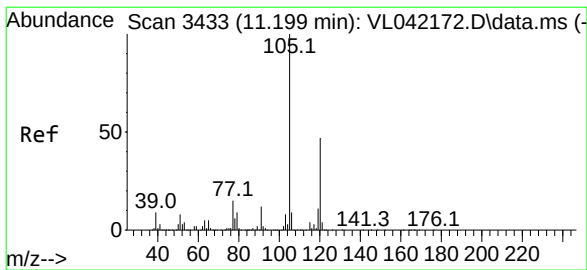
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 2.179 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042173.D
Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 194660
Ion Ratio Lower Upper
105 100
120 29.1 23.4 35.0
91 13.7 10.3 15.5
77 14.7 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 2.169 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion:105 Resp: 169221

Ion Ratio Lower Upper

105 100

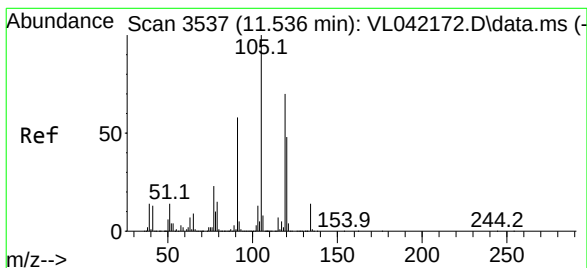
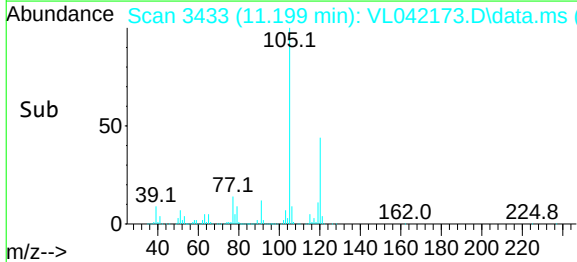
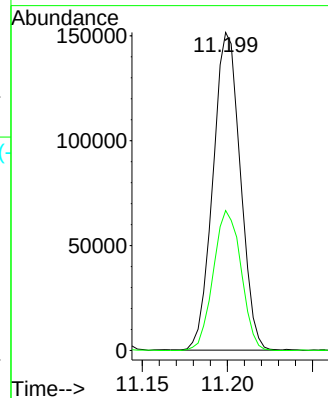
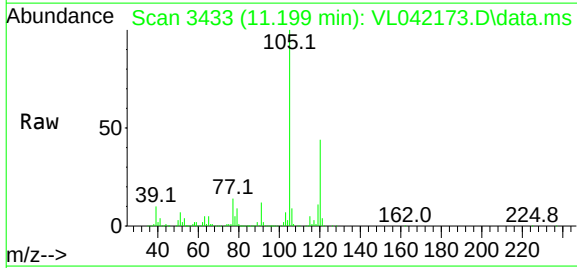
120 44.0 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.207 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:105 Resp: 198351

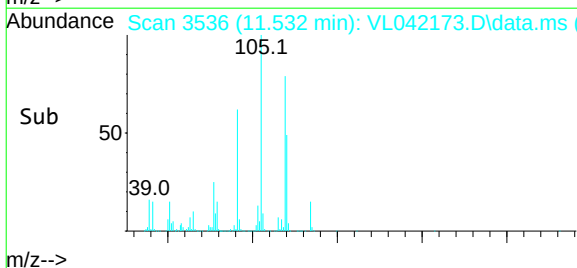
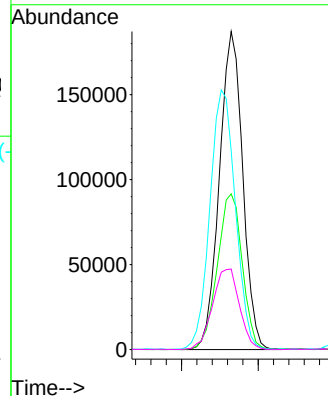
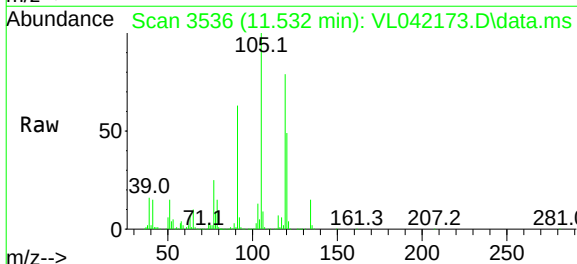
Ion Ratio Lower Upper

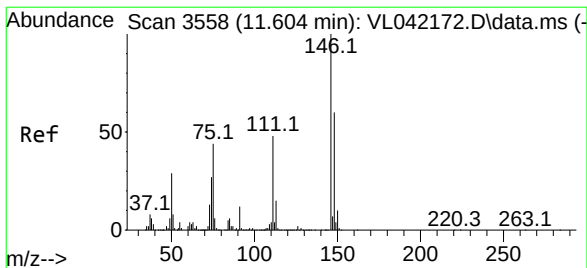
105 100

120 49.0 38.6 58.0

91 62.4 46.2 69.2

77 25.3 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 2.175 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

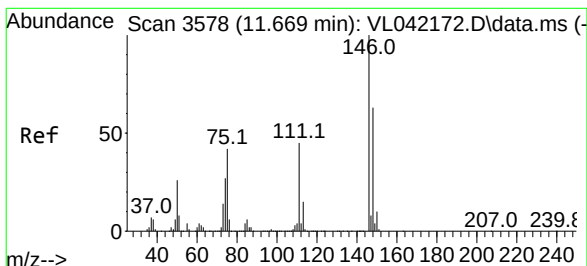
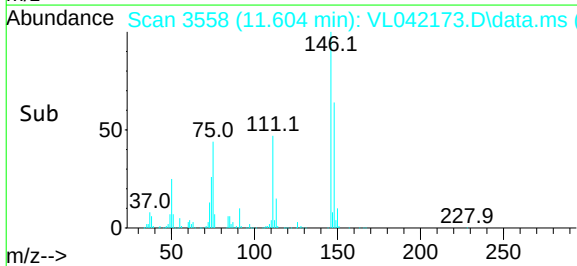
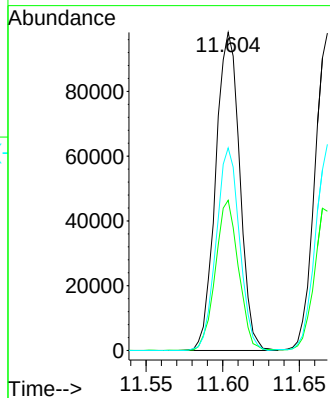
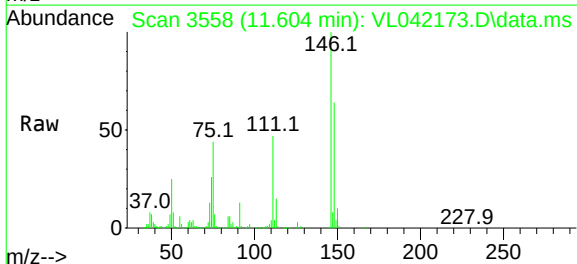
VSTDICC002

Tgt Ion:	146	Resp:	107217
Ion Ratio	Lower	Upper	
146	100		
111	45.5	23.8	71.2
148	61.6	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 2.139 ppbv

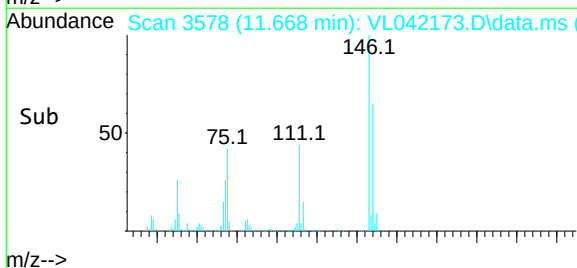
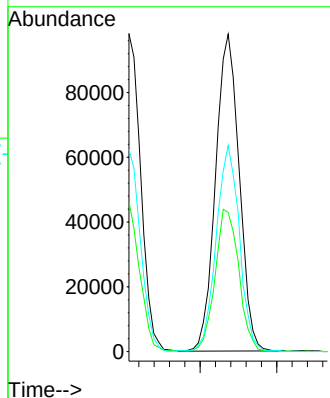
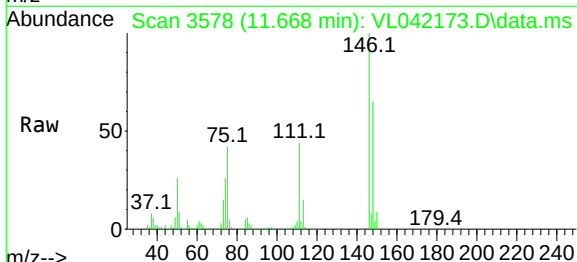
RT: 11.668 min Scan# 3578

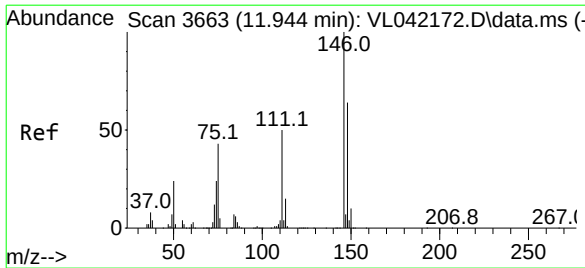
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	146	Resp:	104925
Ion Ratio	Lower	Upper	
146	100		
111	45.3	23.0	69.0
148	64.0	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 2.132 ppbv

RT: 11.943 min Scan# 3663

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

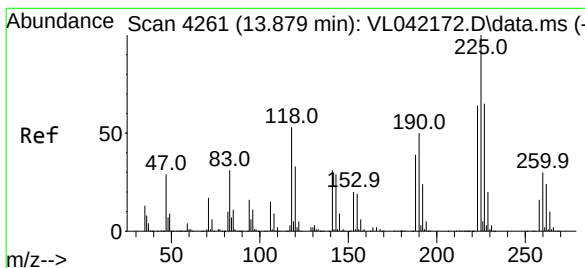
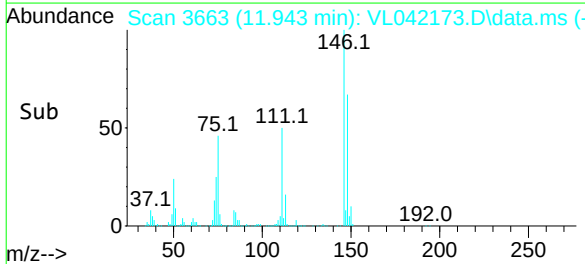
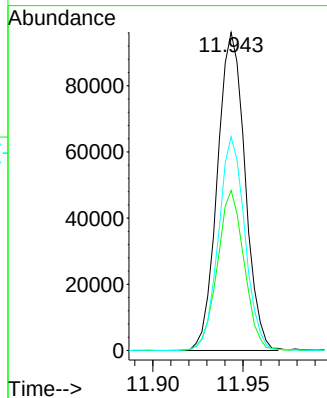
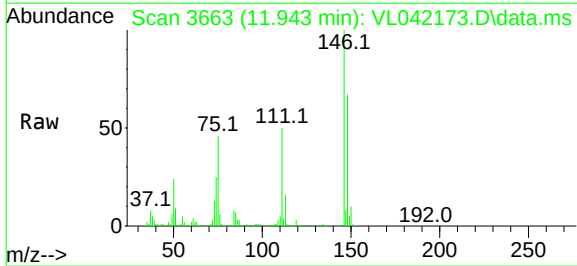
VSTDICC002

Tgt Ion:	146	Resp:	102310
Ion Ratio	Lower	Upper	
146	100		
111	48.8	24.8	74.3
148	64.6	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 2.242 ppbv

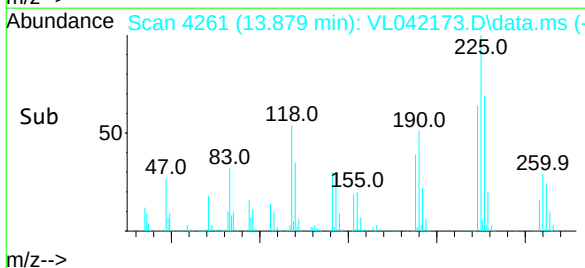
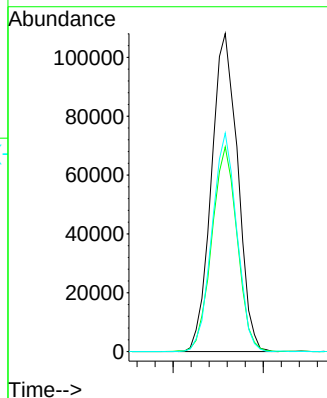
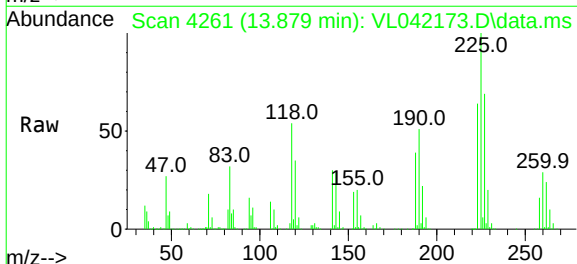
RT: 13.879 min Scan# 4261

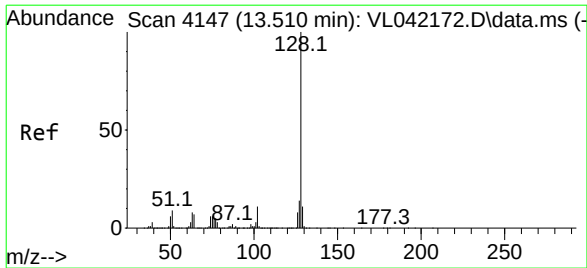
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Tgt Ion:	225	Resp:	109539
Ion Ratio	Lower	Upper	
225	100		
223	62.2	50.6	76.0
227	64.9	51.2	76.8





#79

Naphthalene

Concen: 2.375 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

Instrument :

MSVOA_L

ClientSampleId :

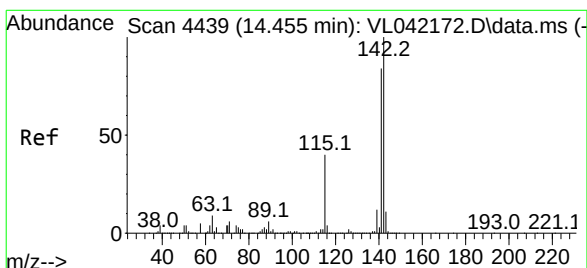
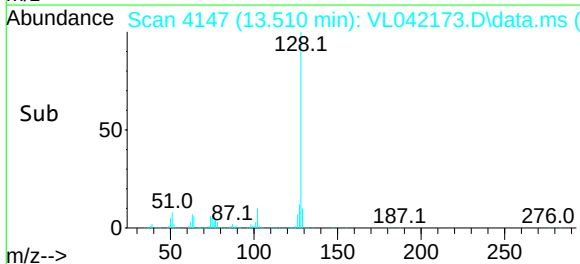
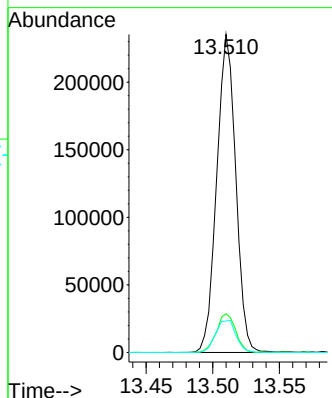
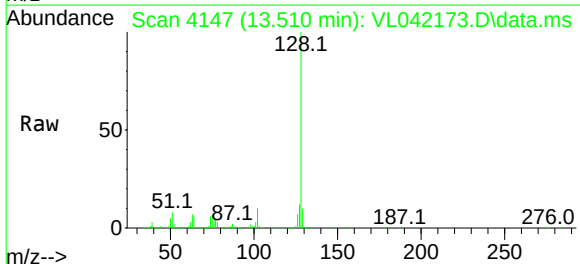
VSTDICC002

Tgt Ion:	128	Resp:	233451
Ion Ratio	Lower	Upper	
128	100		
127	12.1	10.8	16.2
129	9.9	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 2.451 ppbv

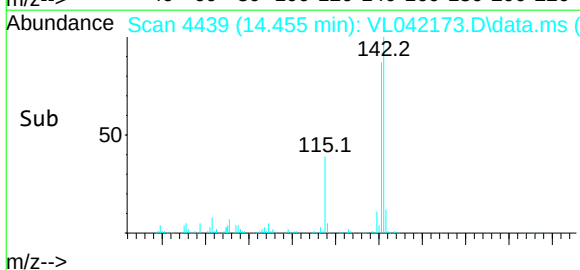
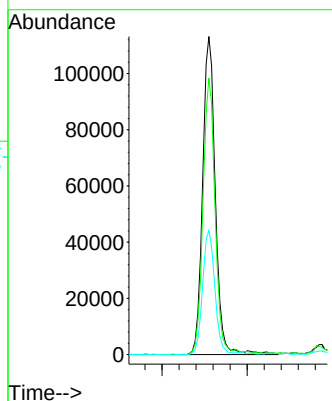
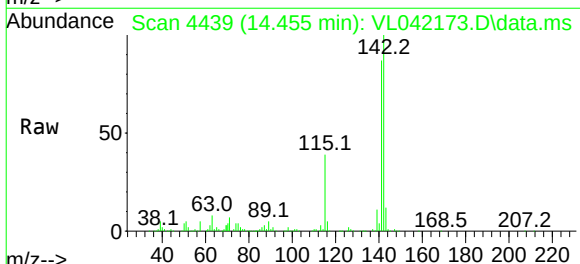
RT: 14.455 min Scan# 4439

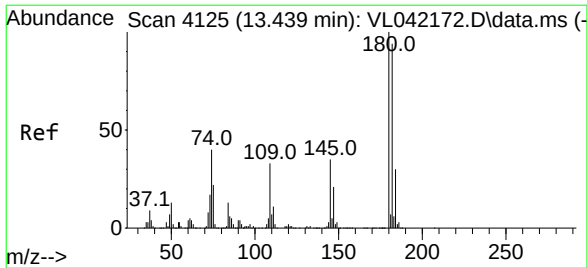
Delta R.T. -0.000 min

Lab File: VL042173.D

Acq: 27 Mar 2025 08:59

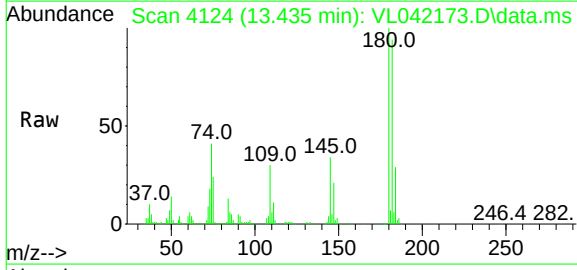
Tgt Ion:	142	Resp:	117313
Ion Ratio	Lower	Upper	
142	100		
141	83.5	66.3	99.5
115	38.5	31.6	47.4





#81
 1,2,4-Trichlorobenzene
 Concen: 2.288 ppbv
 RT: 13.435 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042173.D
 Acq: 27 Mar 2025 08:59

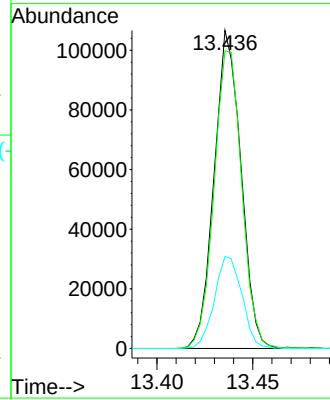
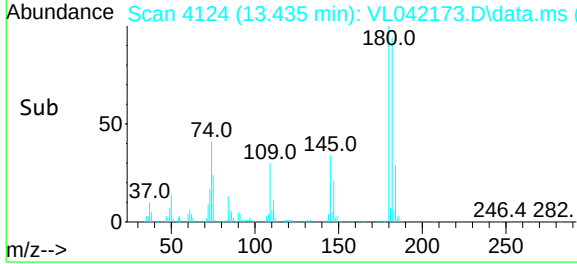
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:	180	Resp:	103765
Ion Ratio	Lower	Upper	
180	100		
182	97.0	75.1	112.7
184	29.6	24.4	36.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	186244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	537244	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	499830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	404753	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	28203	1.026	ppbv	99
3) Chlorodifluoromethane	1.473	51	28693	1.021	ppbv	94
4) Chloromethane	1.531	50	11111	0.989	ppbv	99
5) Vinyl Chloride	1.577	62	10723	0.936	ppbv	98
6) Bromomethane	1.667	94	4984	0.979	ppbv	97
7) Chloroethane	1.703	64	4622	1.025	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	23886	1.020	ppbv	98
9) Propene	1.483	41	13699m	1.082	ppbv	
10) Heptane	4.975	43	36132	1.055	ppbv	100
11) Trichlorofluoromethane	1.875	101	27136	1.014	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	22629	1.029	ppbv	99
13) Ethanol	1.719	45	1610m	1.624	ppbv	
14) Bromoethene	1.781	108	8330	0.989	ppbv #	82
15) Acetone	1.836	43	29294	1.125	ppbv	95
16) 1,3-Butadiene	1.606	39	13133	1.121	ppbv	97
17) tert-Butyl alcohol	2.040	59	33500	1.033	ppbv	97
18) 1,1-Dichloroethene	2.033	96	10532	1.024	ppbv	89
19) Isopropyl Alcohol	1.884	45	14903	1.014	ppbv #	38
20) Methylene Chloride	2.059	84	10481	1.080	ppbv	93
21) Allyl Chloride	2.095	41	19039	1.036	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	13051m	1.086	ppbv	
23) Vinyl Acetate	2.464	43	12883m	1.190	ppbv	
24) 1,1-Dichloroethane	2.409	63	22505	1.022	ppbv	99
25) Ethyl Acetate	2.836	43	67402	0.997	ppbv #	96
26) Hexane	2.823	57	27223	1.043	ppbv	98
27) Carbon Disulfide	2.146	76	28167	1.006	ppbv #	47
28) Methyl tert-Butyl Ether	2.441	73	16501	1.015	ppbv	95
29) Chloroform	2.845	83	38516	1.008	ppbv	96
30) Cyclohexane	3.852	84	23052	1.016	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	27187	1.026	ppbv	89
32) 1,1,1-Trichloroethane	3.363	97	40993	0.938	ppbv	99
34) 2-Butanone	2.557	43	41423	1.063	ppbv	98
35) Carbon Tetrachloride	3.758	117	39345	0.952	ppbv	93
36) Benzene	3.651	78	55156	1.036	ppbv	94
37) 1,2-Dichloroethane	3.218	62	30543	1.002	ppbv	98
38) Trichloroethene	4.545	130	21906	0.985	ppbv	93
39) 1,2-Dichloropropane	4.312	63	20020	1.032	ppbv	99
40) 1,4-Dioxane	4.593	88	10592m	1.052	ppbv	
41) Tetrahydrofuran	3.056	42	22818	1.029	ppbv	97
42) Bromodichloromethane	4.483	83	41864	0.996	ppbv	90
43) Methyl Methacrylate	4.875	69	24233m	1.078	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	90727	1.008	ppbv	96
45) t-1,3-Dichloropropene	6.403	75	23993m	0.992	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	30063	1.014	ppbv	93
47) 1,1,2-Trichloroethane	6.577	97	20546	1.002	ppbv	96
48) Dibromochloromethane	7.383	129	34425	0.991	ppbv	100
49) Bromoform	9.481	173	31610	1.013	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	65226m	1.056	ppbv	
51) 2-Hexanone	7.438	43	54680	1.067	ppbv #	100
52) Tetrachloroethene	8.222	164	19415	0.919	ppbv	95
53) Toluene	6.927	91	64612	1.023	ppbv	99
54) 1,2-Dibromoethane	7.652	107	28879	1.009	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.924	131	28764	1.045	ppbv #	87
57) Chlorobenzene	8.917	112	48930	1.032	ppbv	93
58) Ethyl Benzene	9.348	91	91086	1.026	ppbv	97
59) m/p-Xylene	9.529	91	147162m	2.073	ppbv	
60) o-Xylene	9.960	91	73702	1.037	ppbv	96
61) Styrene	9.866	104	36110	1.027	ppbv	97
62) Isopropylbenzene	10.536	105	109897	1.034	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	44431	1.029	ppbv	99
64) n-propylbenzene	10.986	120	29054	1.062	ppbv	98
65) tert-Butylbenzene	11.526	119	103520	1.053	ppbv	96
66) Benzyl Chloride	11.614	91	10660	1.022	ppbv #	93
67) sec-Butylbenzene	11.762	105	149660	1.095	ppbv	97
69) p-Isopropyltoluene	11.921	119	127509	1.084	ppbv	99
70) n-Butylbenzene	12.280	91	129860	1.079	ppbv	99
71) 2-Chlorotoluene	10.898	91	86356	1.047	ppbv	100
72) 4-Ethyltoluene	11.122	105	92912	1.050	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	83497	1.080	ppbv	92
74) 1,2,4-Trimethylbenzene	11.533	105	97858	1.099	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	51096	1.046	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	50841	1.046	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	51523	1.084	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	55611	1.149	ppbv	97
79) Naphthalene	13.510	128	109031	1.120	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	44518	0.939	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	47040	1.047	ppbv	98

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

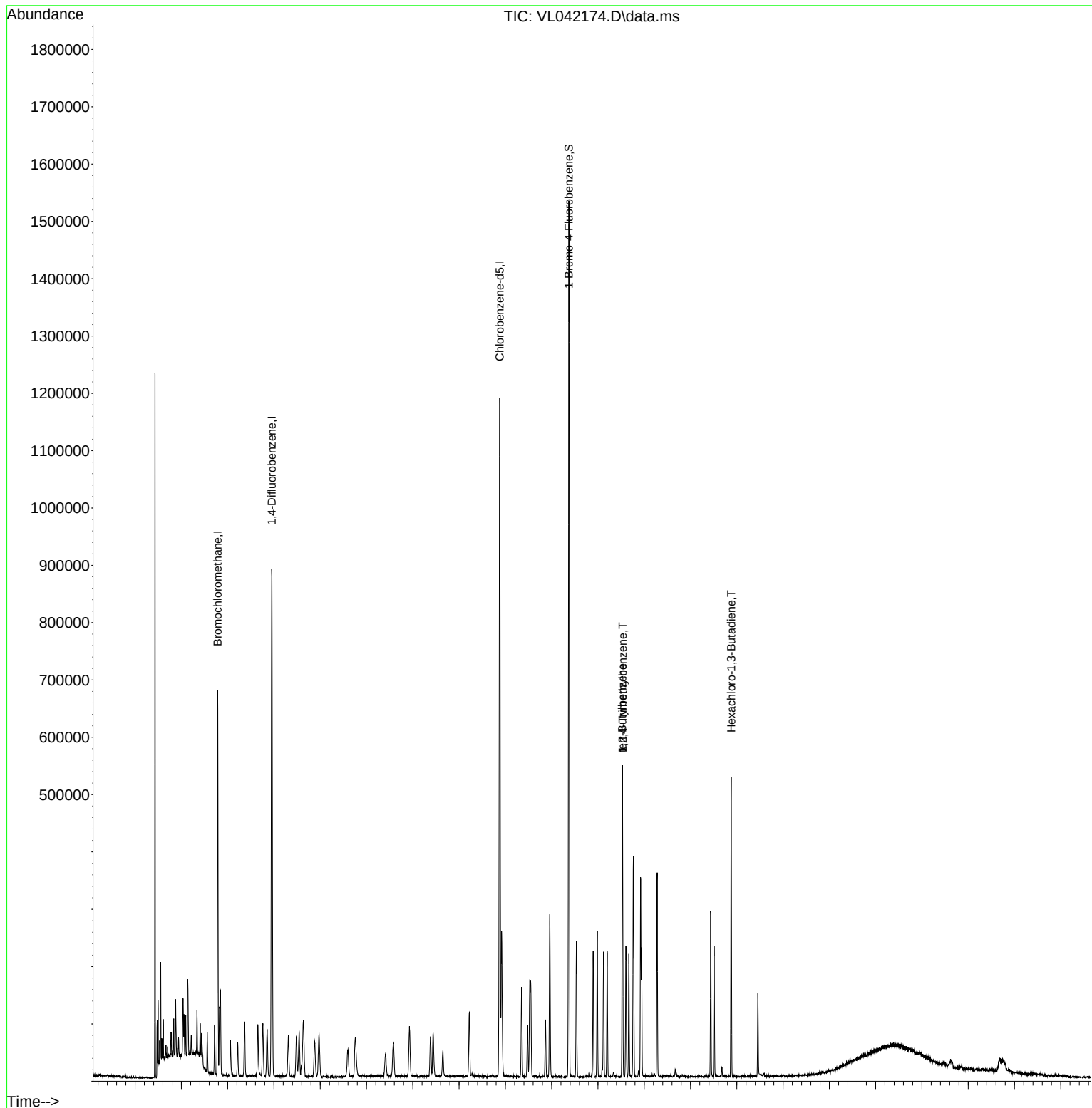
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Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

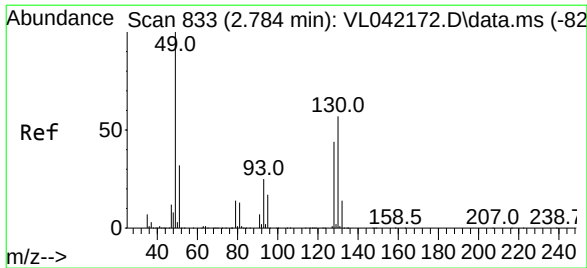
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

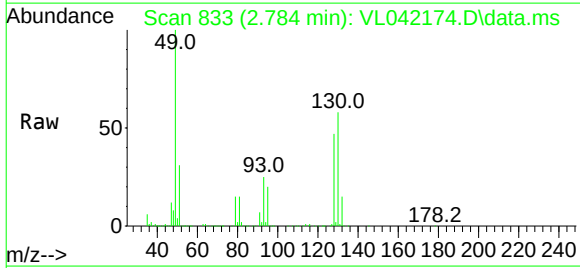
Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

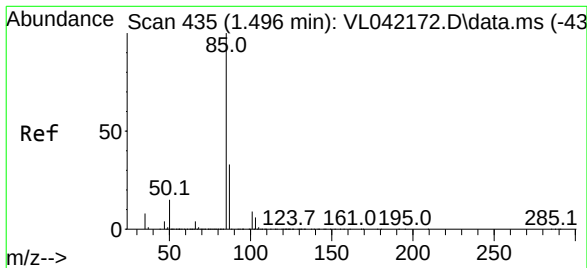
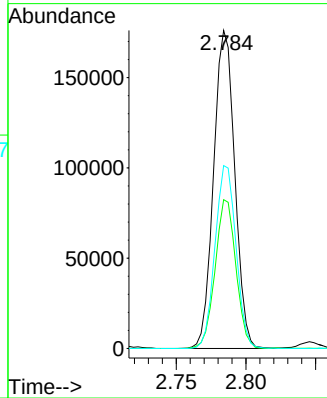
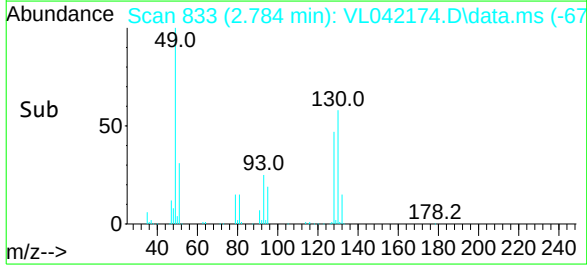
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



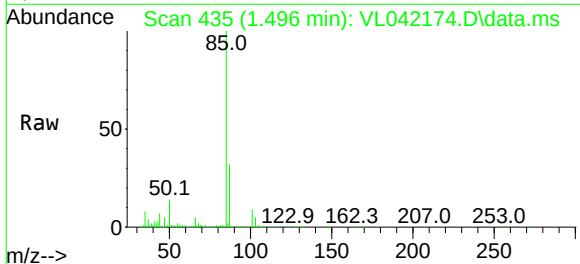
Tgt Ion: 49 Resp: 186244
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 57.0 28.8 86.4

Manual Integrations
APPROVED

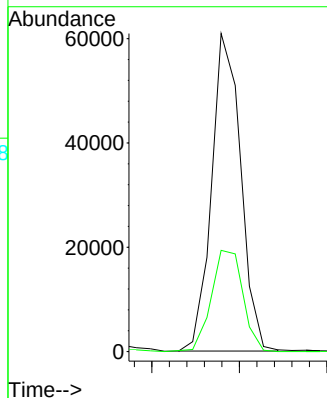
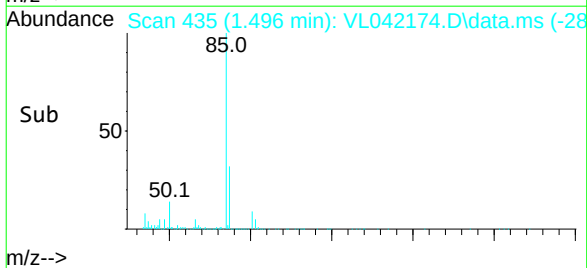
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

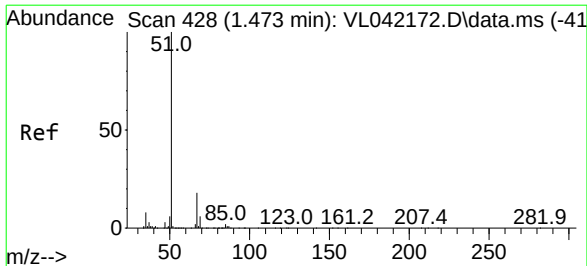


#2
Dichlorodifluoromethane
Concen: 1.026 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion: 85 Resp: 28203
Ion Ratio Lower Upper
85 100
87 31.9 26.1 39.1





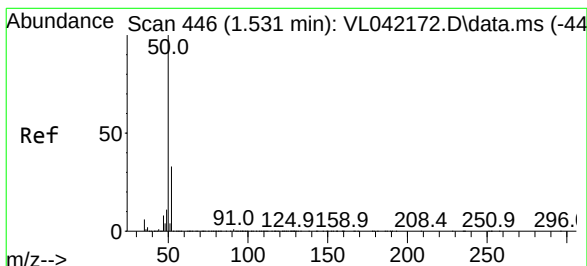
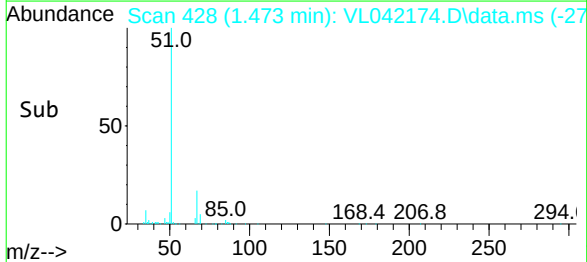
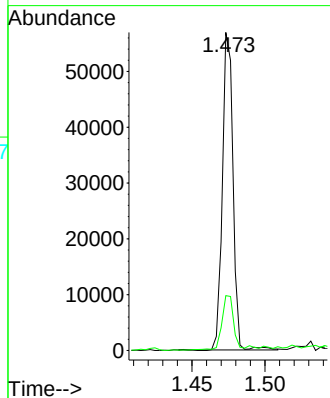
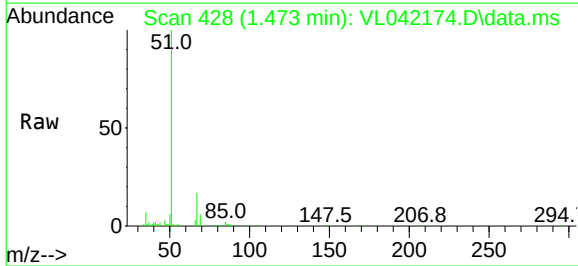
#3
Chlorodifluoromethane
Concen: 1.021 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 51 Resp: 28693
Ion Ratio Lower Upper
51 100
67 21.5 15.0 22.6

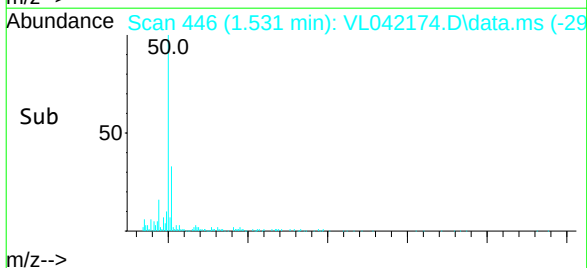
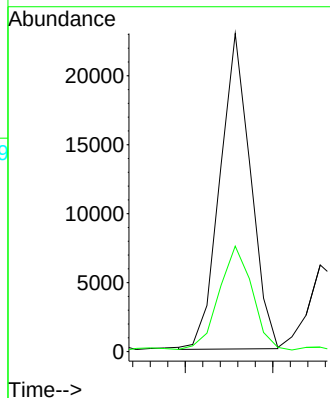
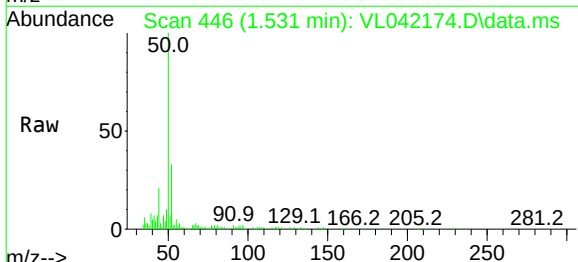
Manual Integrations
APPROVED

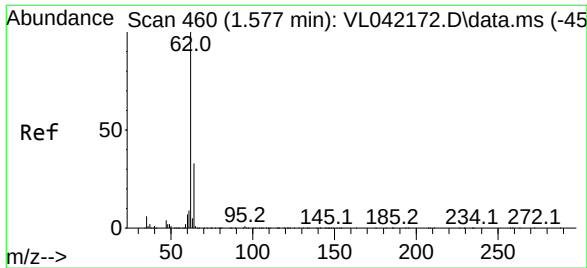
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 0.989 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 50 Resp: 11111
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1





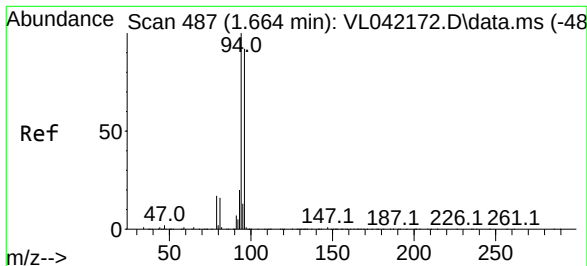
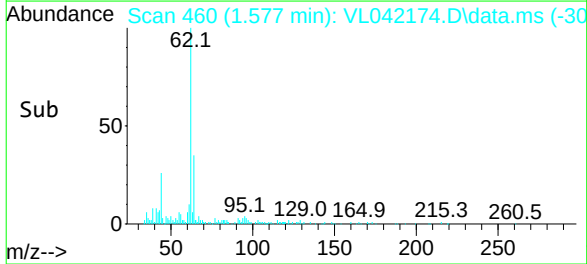
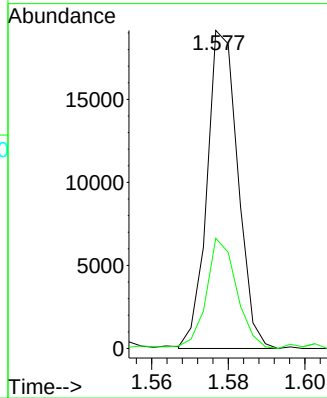
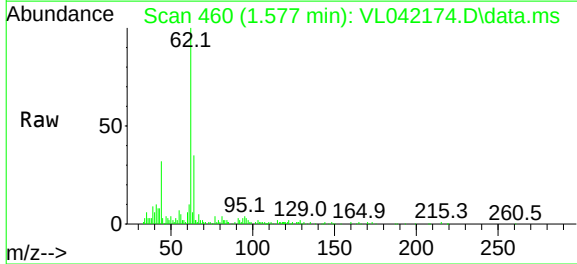
#5
 Vinyl Chloride
 Concen: 0.936 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 62 Resp: 10723
 Ion Ratio Lower Upper
 62 100
 64 34.6 26.6 40.0

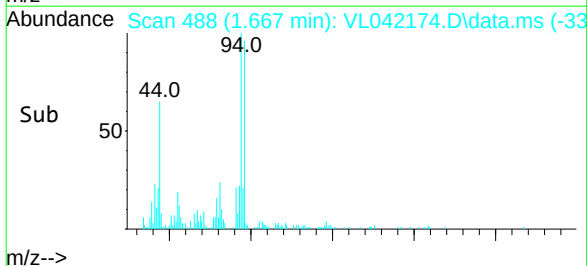
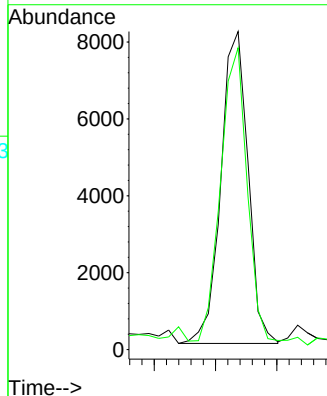
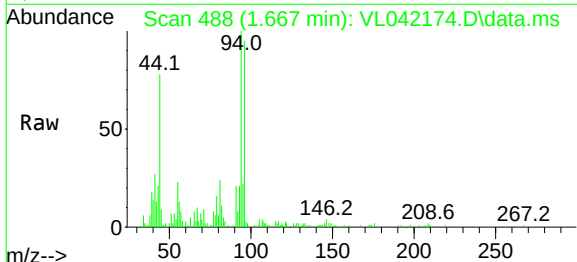
Manual Integrations
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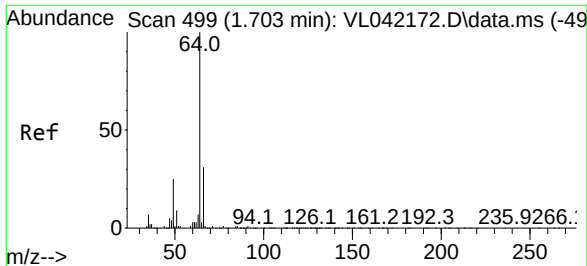
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 0.979 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Tgt Ion: 94 Resp: 4984
 Ion Ratio Lower Upper
 94 100
 96 93.8 73.1 109.7





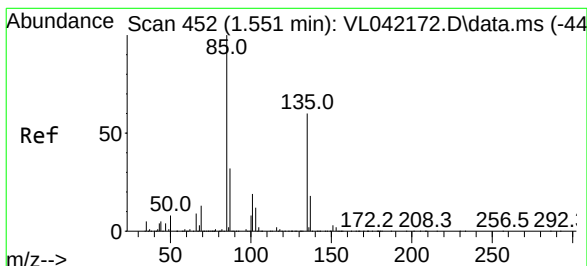
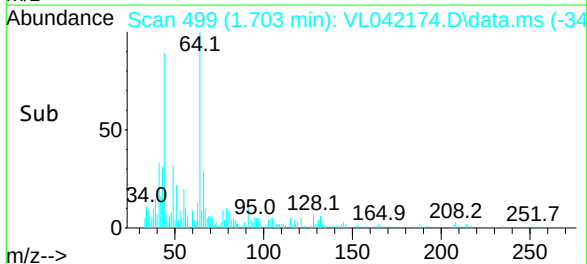
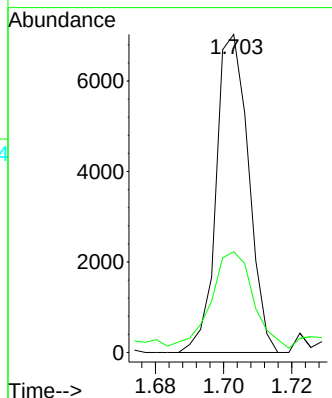
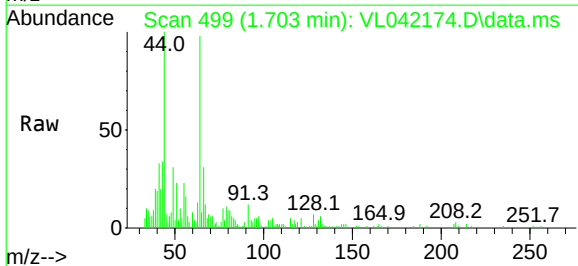
#7
Chloroethane
Concen: 1.025 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 64 Resp: 4622
Ion Ratio Lower Upper
64 100
66 31.7 25.2 37.8

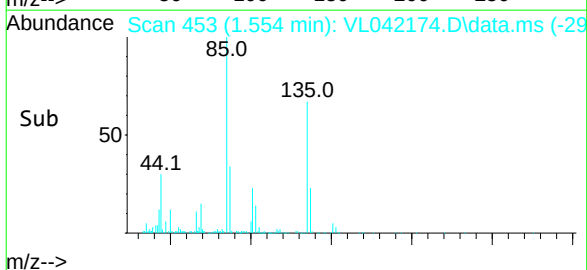
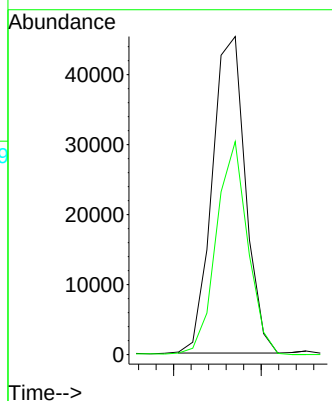
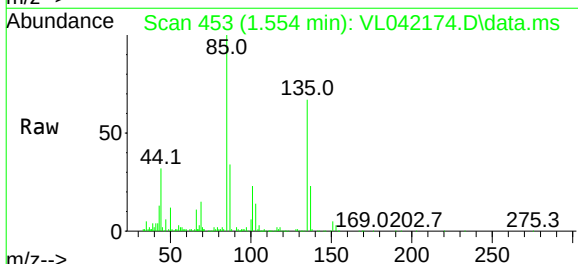
Manual Integrations
APPROVED

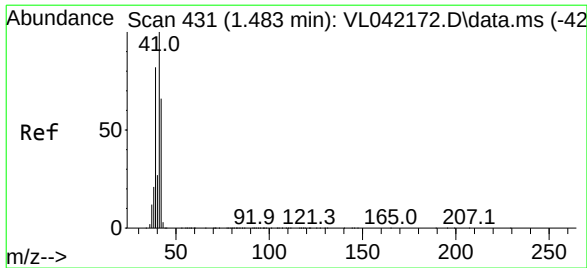
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 1.020 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

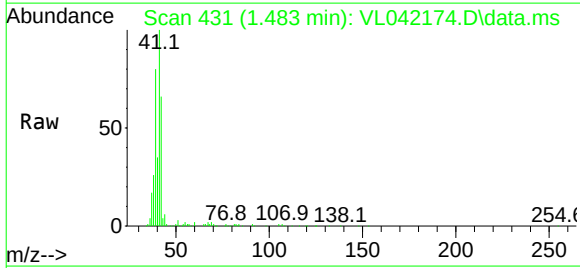
Tgt Ion: 85 Resp: 23886
Ion Ratio Lower Upper
85 100
135 64.2 52.4 78.6





#9
 Propene
 Concen: 1.082 ppbv m
 RT: 1.483 min Scan# 431
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

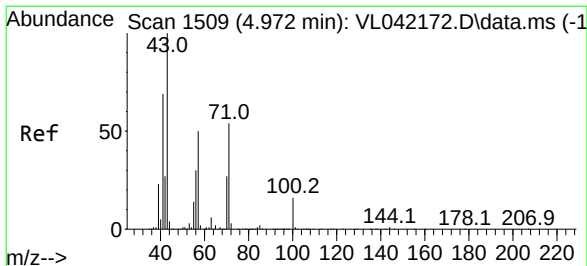
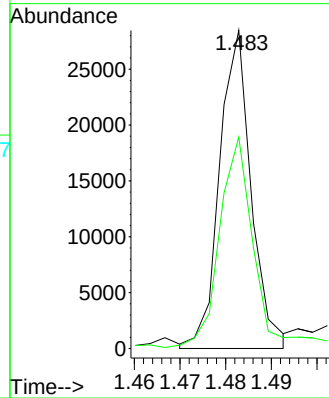
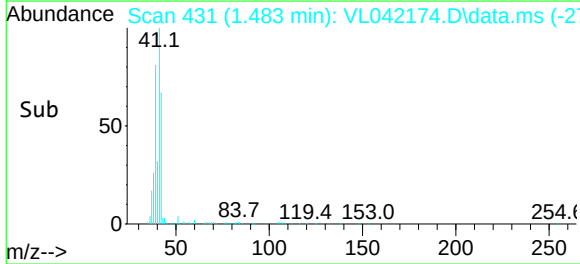
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



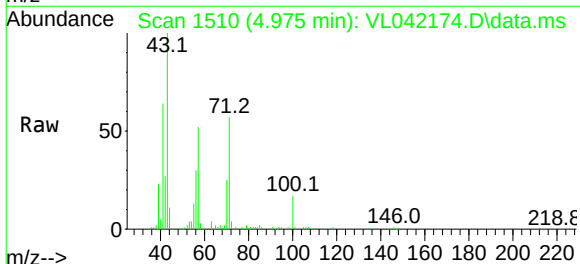
Tgt Ion: 41 Resp: 13699
 Ion Ratio Lower Upper
 41 100
 42 7.5 55.4 83.2#

Manual Integrations
 APPROVED

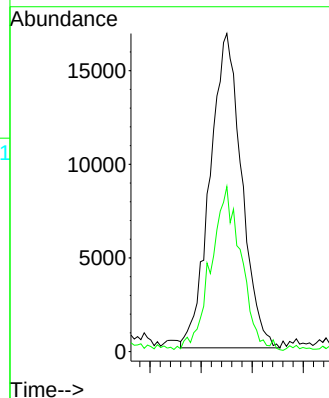
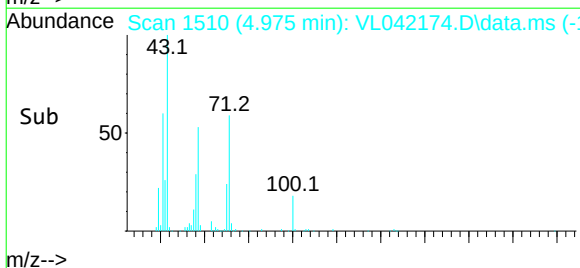
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

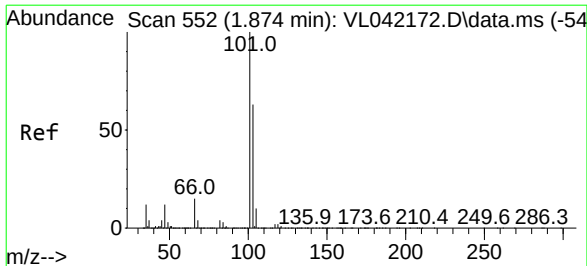


#10
 Heptane
 Concen: 1.055 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30



Tgt Ion: 43 Resp: 36132
 Ion Ratio Lower Upper
 43 100
 57 49.6 39.4 59.2





#11

Trichlorofluoromethane

Concen: 1.014 ppbv

RT: 1.875 min Scan# 552

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:101 Resp: 27136

Ion Ratio Lower Upper

101 100

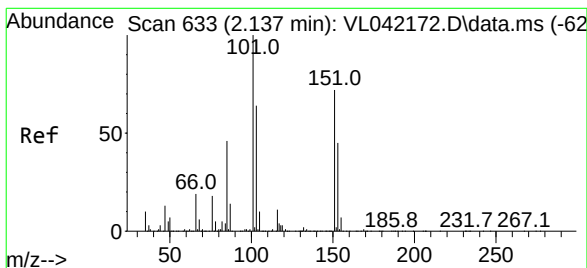
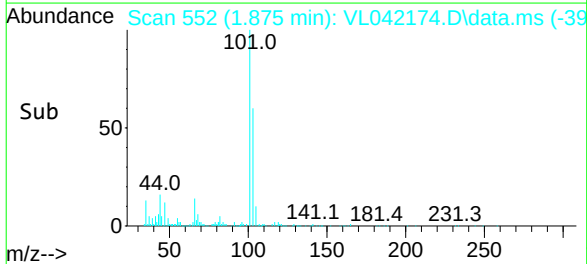
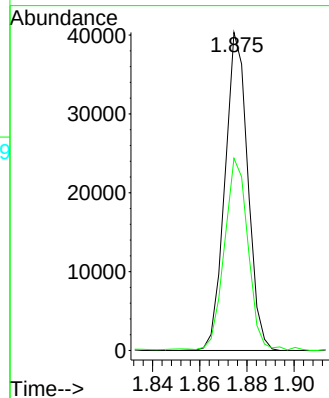
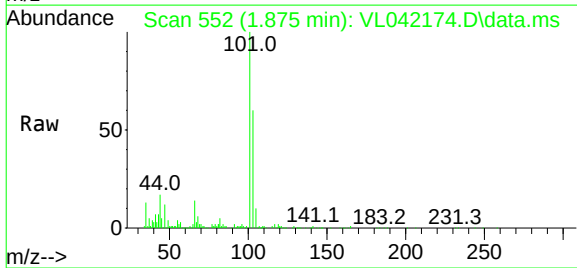
103 59.9 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.029 ppbv

RT: 2.137 min Scan# 633

Delta R.T. 0.000 min

Lab File: VL042174.D

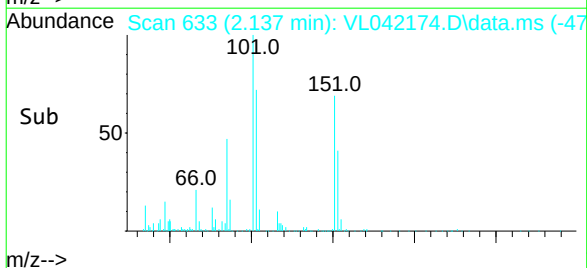
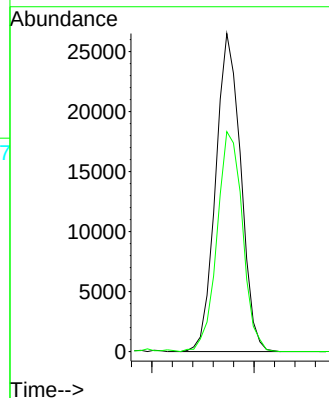
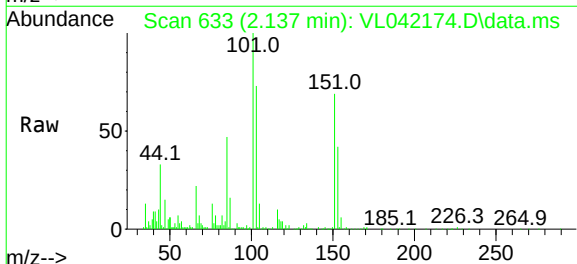
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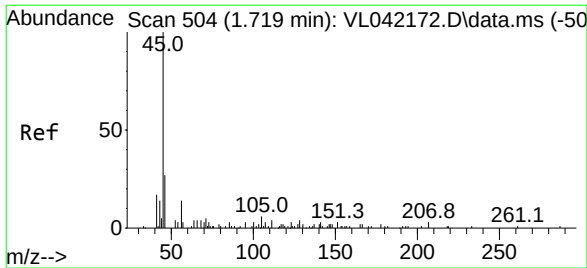
Tgt Ion:101 Resp: 22629

Ion Ratio Lower Upper

101 100

151 70.3 57.1 85.7





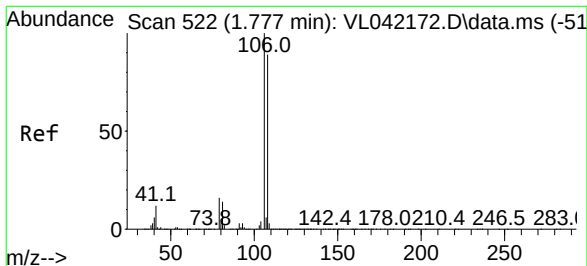
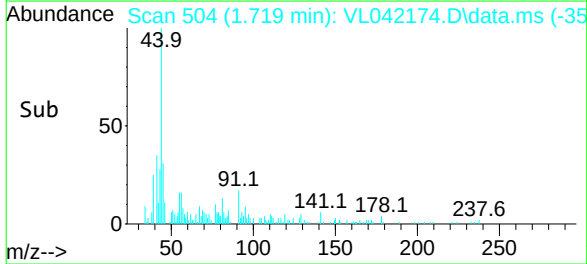
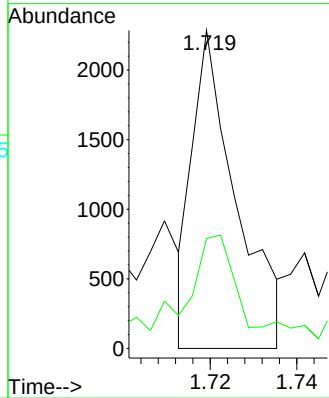
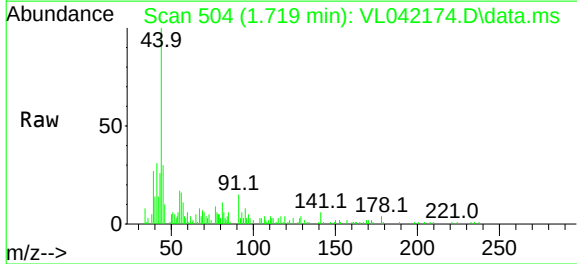
#13
Ethanol
Concen: 1.624 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 1610
Ion Ratio Lower Upper
45 100
46 73.4 20.2 80.8

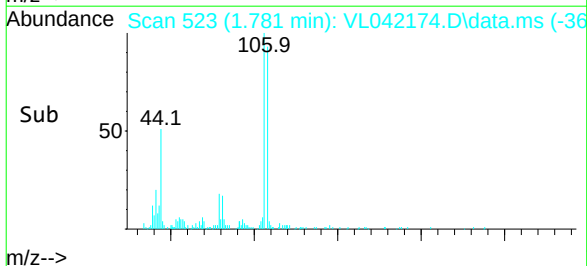
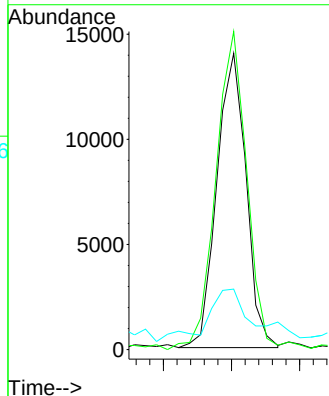
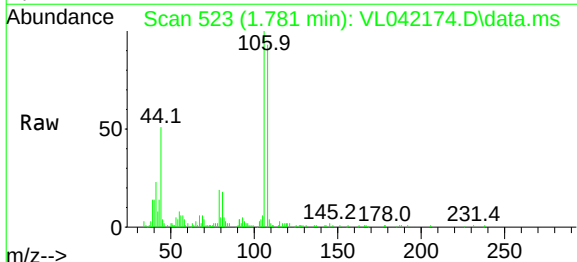
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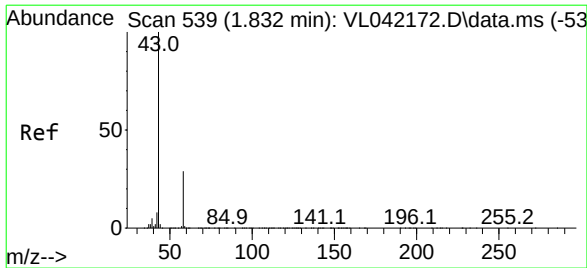
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 0.989 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:108 Resp: 8330
Ion Ratio Lower Upper
108 100
106 115.2 86.8 130.2
79 57.0 15.0 22.6#





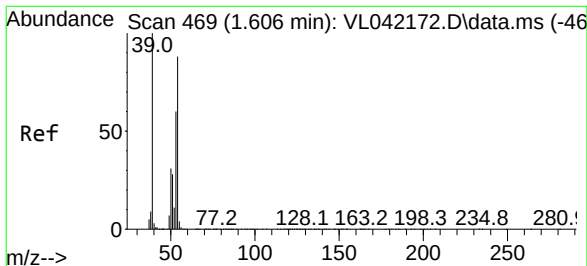
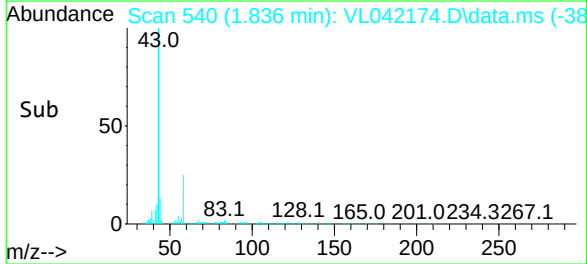
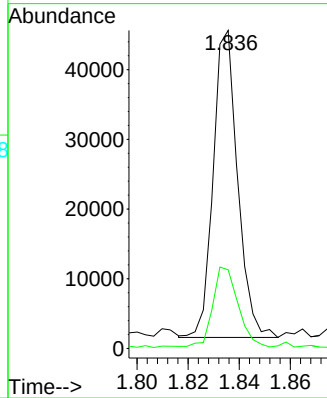
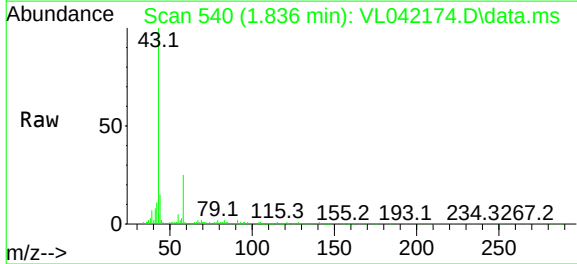
#15
Acetone
Concen: 1.125 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 29294
Ion Ratio Lower Upper
43 100
58 31.6 23.2 34.8

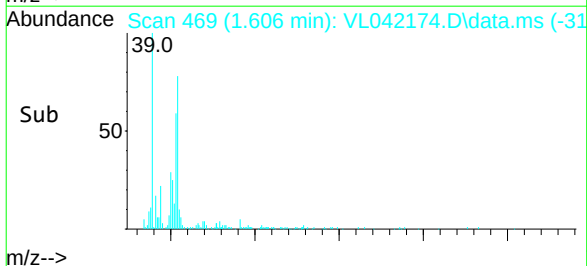
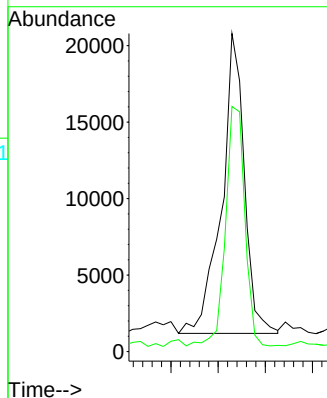
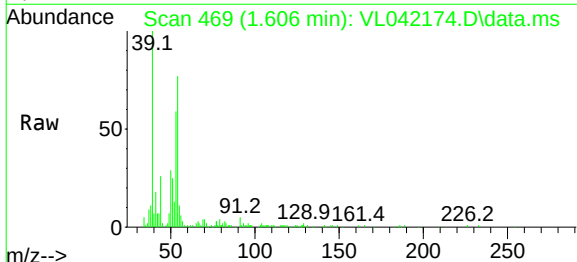
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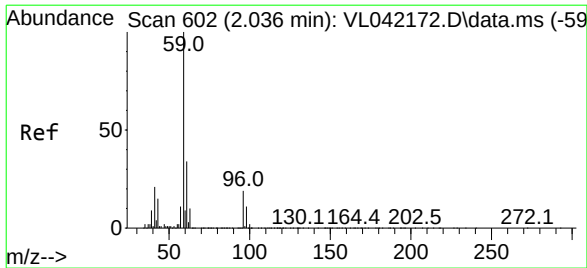
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 1.121 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 39 Resp: 13133
Ion Ratio Lower Upper
39 100
54 73.5 60.7 91.1





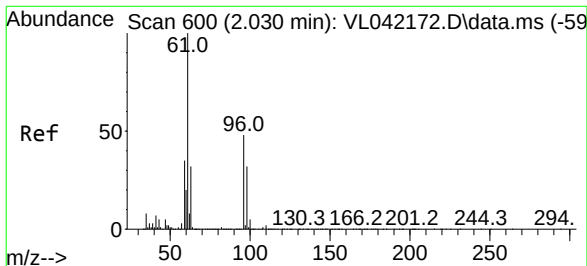
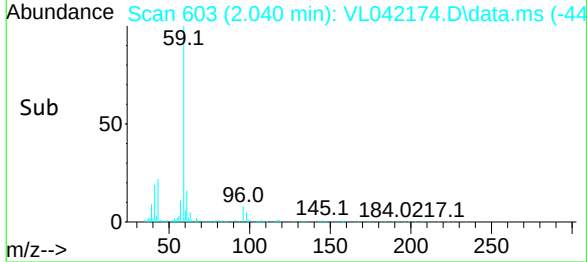
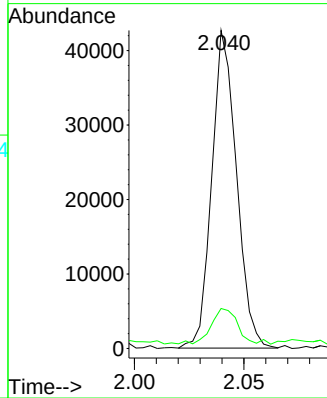
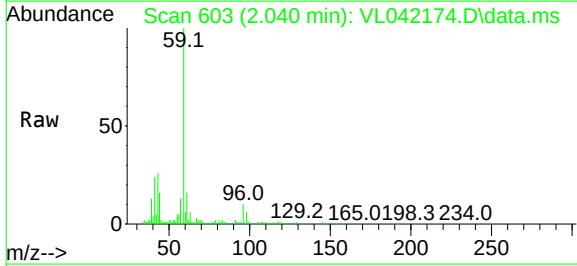
#17
tert-Butyl alcohol
Concen: 1.033 ppbv
RT: 2.040 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 59 Resp: 33500
Ion Ratio Lower Upper
59 100
57 12.3 8.9 13.3

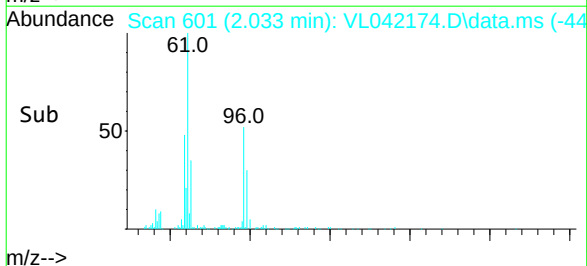
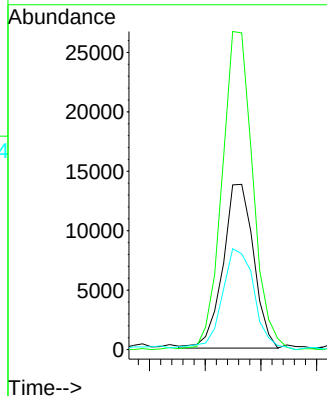
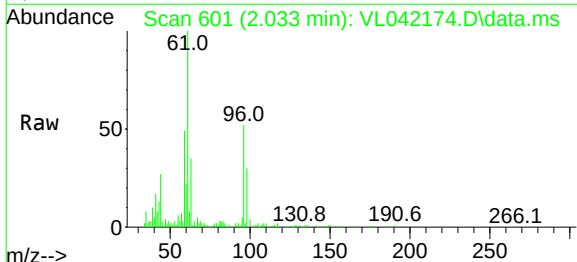
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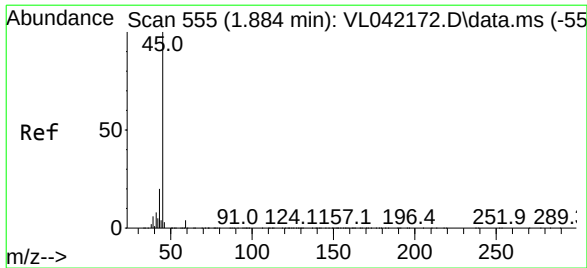
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 1.024 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 96 Resp: 10532
Ion Ratio Lower Upper
96 100
61 192.9 167.6 251.4
98 56.7 53.5 80.3





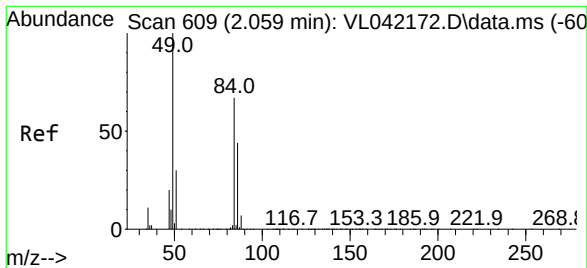
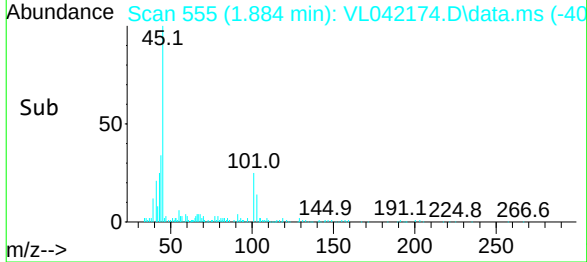
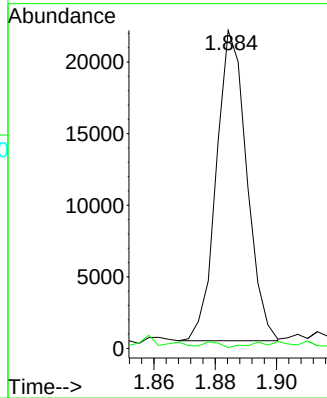
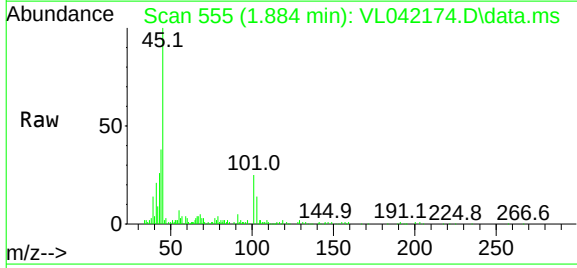
#19
Isopropyl Alcohol
Concen: 1.014 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 45 Resp: 14903
Ion Ratio Lower Upper
45 100
58 4.9 36.9 55.3

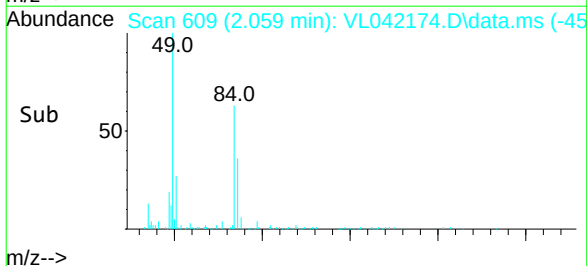
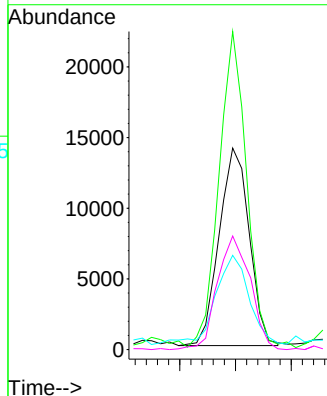
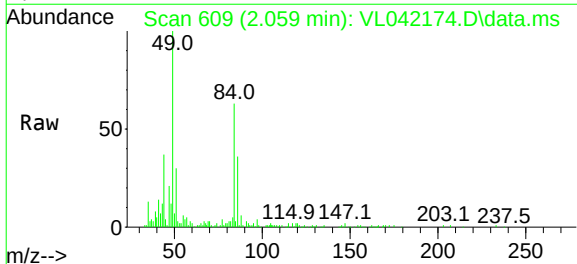
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APPROVED

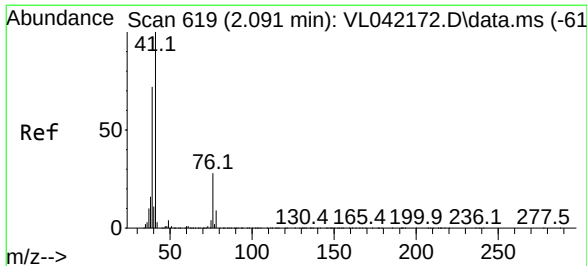
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 1.080 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 84 Resp: 10481
Ion Ratio Lower Upper
84 100
49 158.3 120.2 180.4
51 44.3 37.4 56.0
86 57.1 52.4 78.6





#21

Allyl Chloride

Concen: 1.036 ppbv

RT: 2.095 min Scan# 621

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

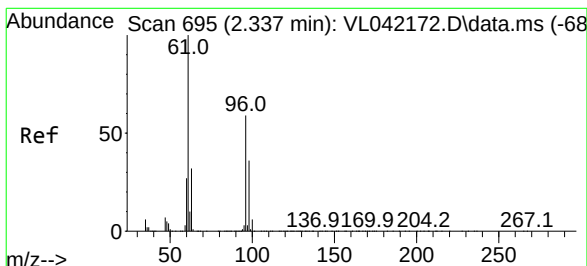
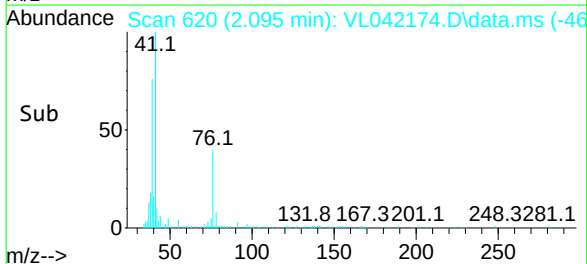
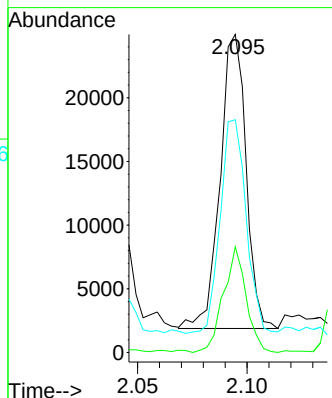
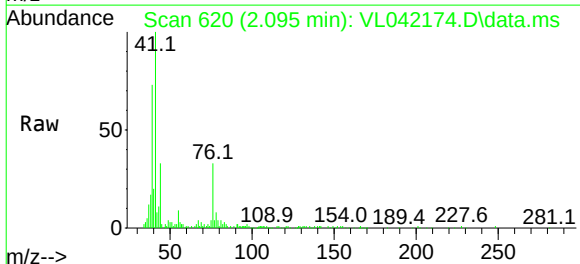
VSTDICC001

Tgt Ion:	41	Resp:	19039
Ion	Ratio	Lower	Upper
41	100		
76	30.5	24.1	36.1
39	77.8	61.1	91.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 1.086 ppbv m

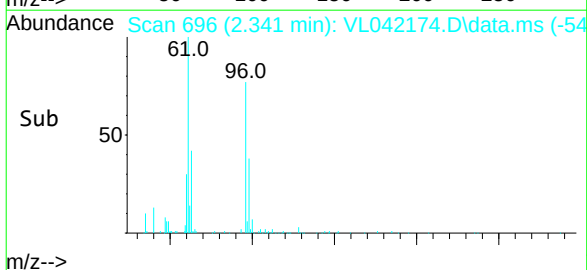
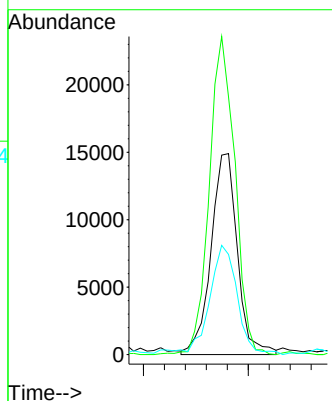
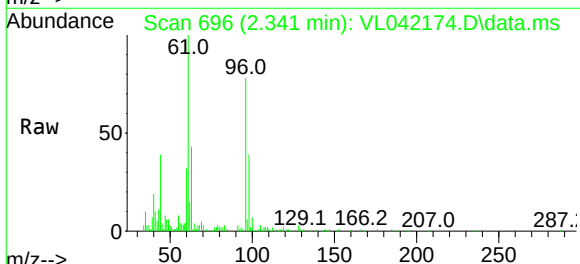
RT: 2.341 min Scan# 696

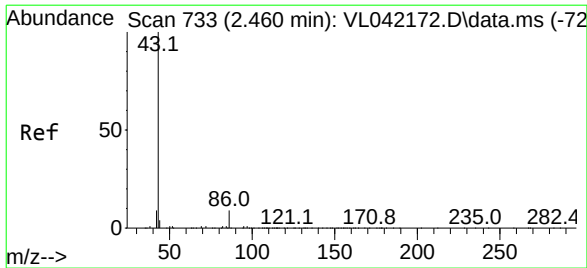
Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

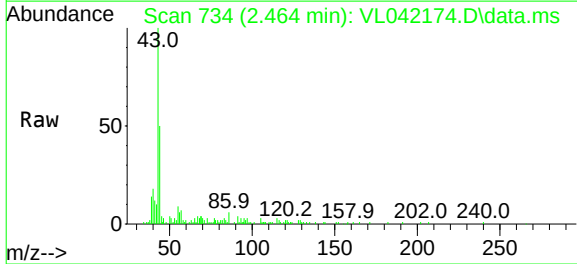
Tgt Ion:	96	Resp:	13051
Ion	Ratio	Lower	Upper
96	100		
61	128.3	136.6	204.8#
98	49.9	49.4	74.2





#23
 Vinyl Acetate
 Concen: 1.190 ppbv m
 RT: 2.464 min Scan# 733
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

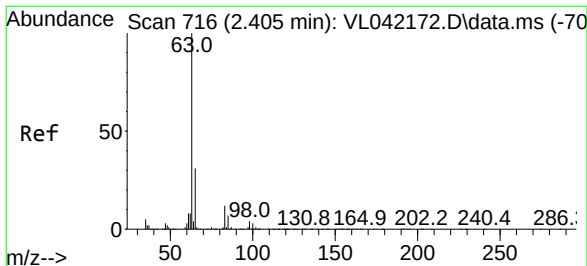
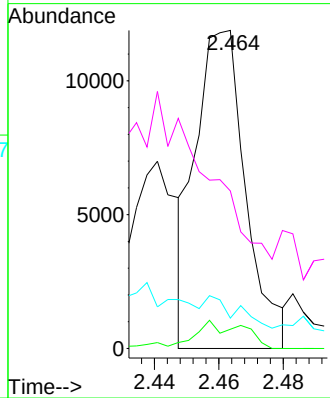
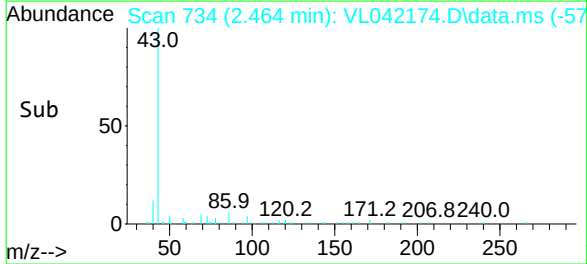
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



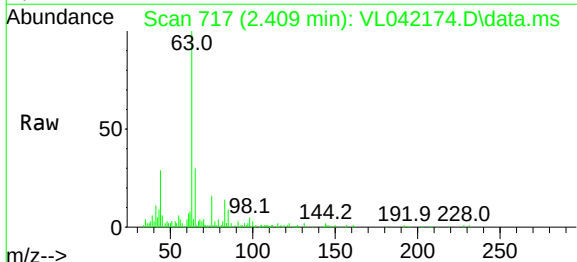
Tgt Ion: 43	Resp: 12883
Ion Ratio	Lower Upper
43	100
86	6.0 5.5 8.3
42	9.5 8.6 13.0
44	49.5 6.2 9.4#

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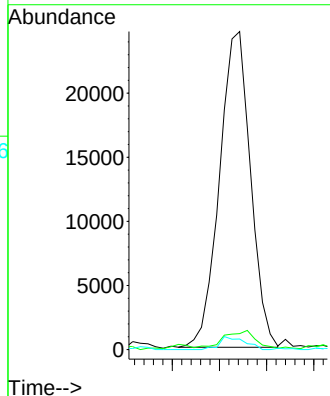
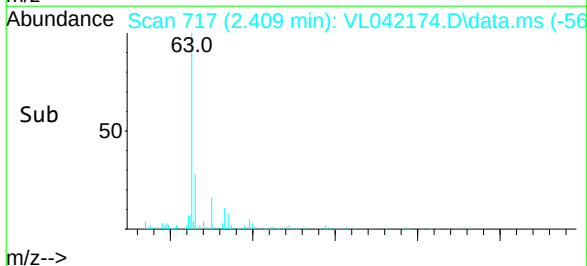
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

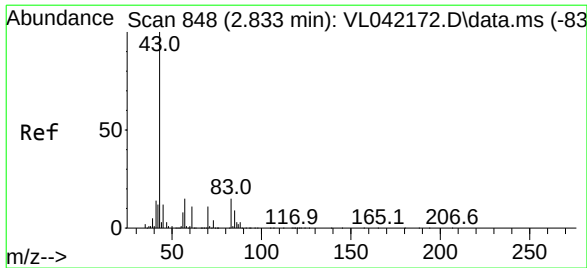


#24
 1,1-Dichloroethane
 Concen: 1.022 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30



Tgt Ion: 63	Resp: 22505
Ion Ratio	Lower Upper
63	100
98	4.6 2.3 6.8
100	3.4 1.6 4.7





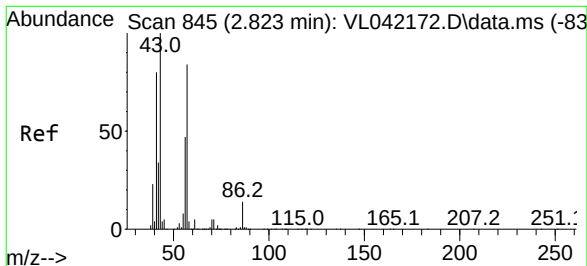
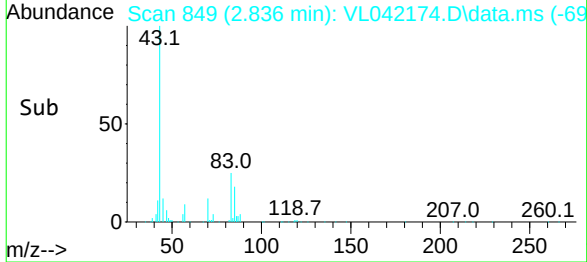
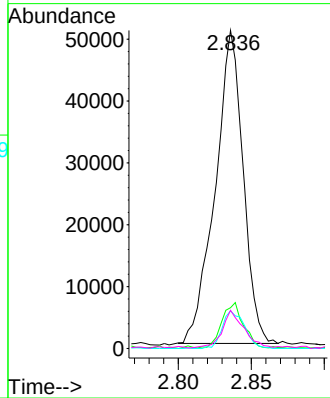
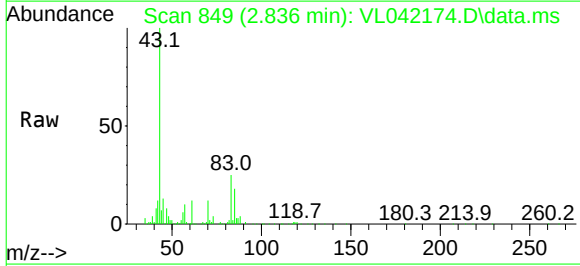
#25
Ethyl Acetate
Concen: 0.997 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion:	43	Resp:	67402
Ion	Ratio	Lower	Upper
43	100		
45	12.3	8.2	12.2
61	9.6	7.3	10.9
70	10.3	7.2	10.8

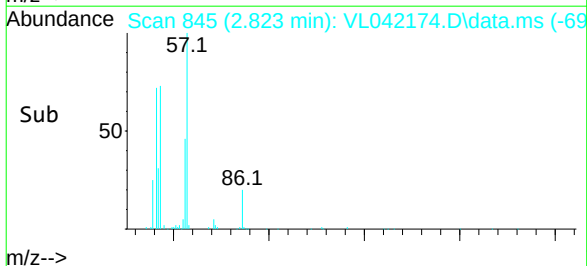
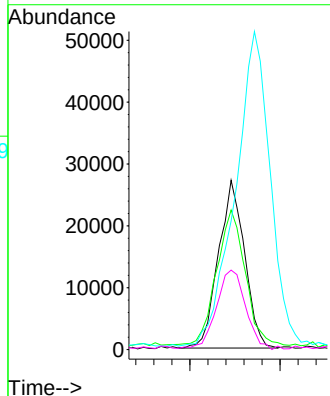
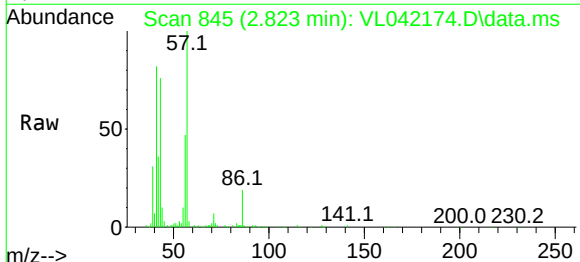
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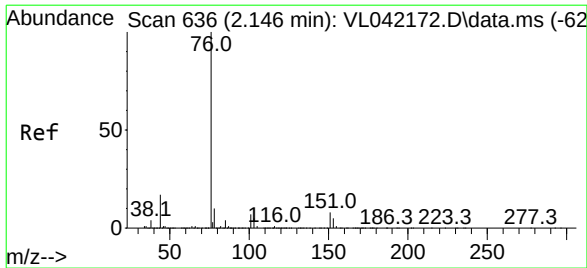
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#26
Hexane
Concen: 1.043 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:	57	Resp:	27223
Ion	Ratio	Lower	Upper
57	100		
41	93.5	76.6	114.8
43	256.9	207.8	311.8
56	53.3	43.6	65.4





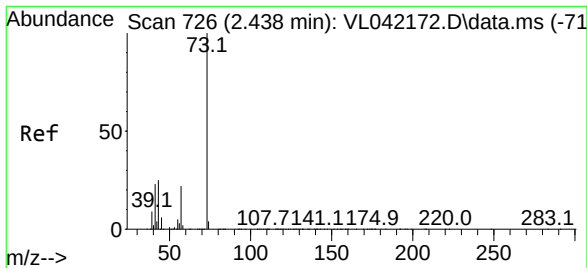
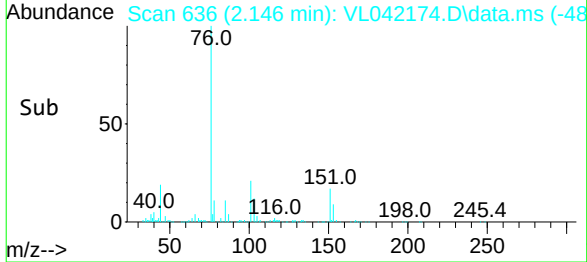
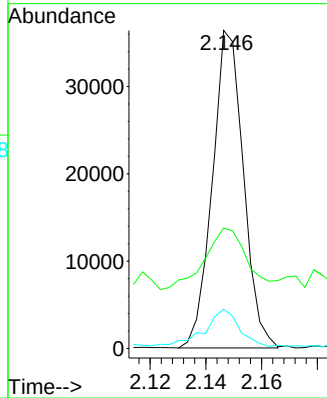
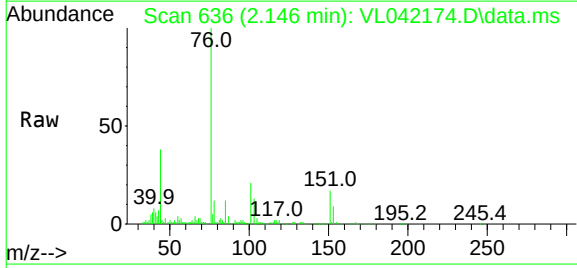
#27
Carbon Disulfide
Concen: 1.006 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument : MSVOA_L
ClientSampleId : VSTDICC001

Tgt Ion: 76 Resp: 28167
Ion Ratio Lower Upper
76 100
44 54.6 14.7 22.1#
78 15.0 9.3 13.9#

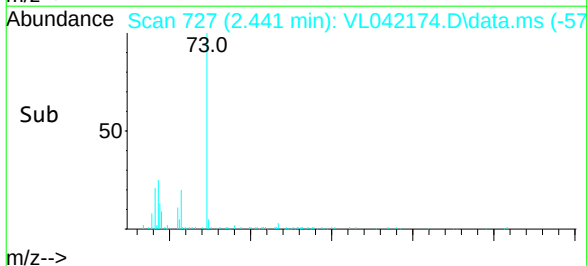
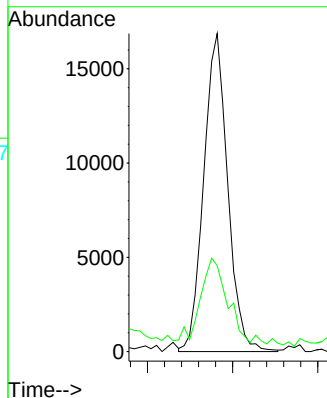
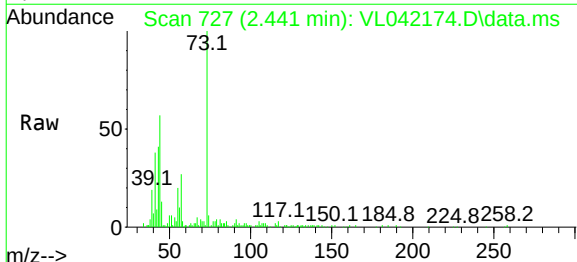
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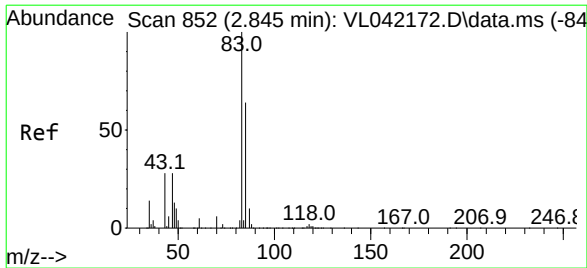
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 1.015 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 73 Resp: 16501
Ion Ratio Lower Upper
73 100
57 28.0 20.5 30.7





#29

Chloroform

Concen: 1.008 ppbv

RT: 2.845 min Scan# 85

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 83 Resp: 38516

Ion Ratio Lower Upper

83 100

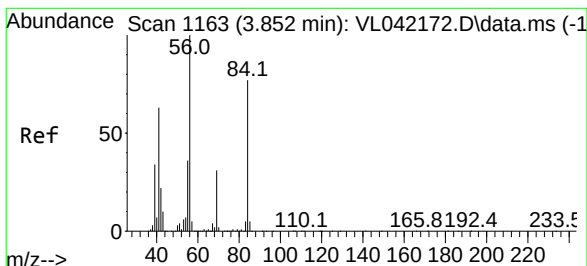
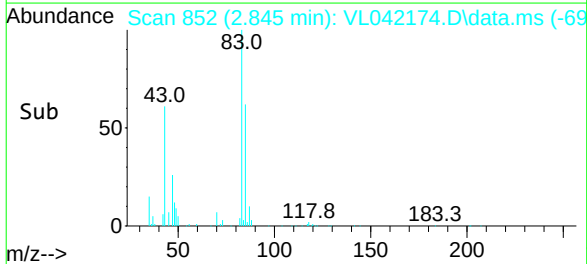
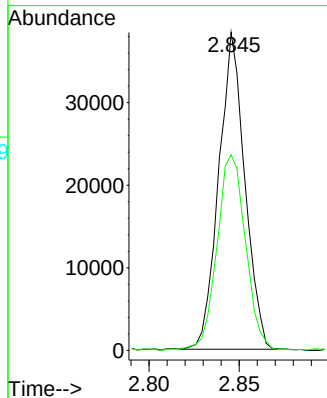
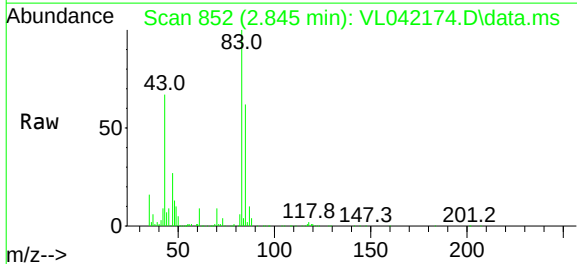
85 61.6 51.4 77.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#30

Cyclohexane

Concen: 1.016 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

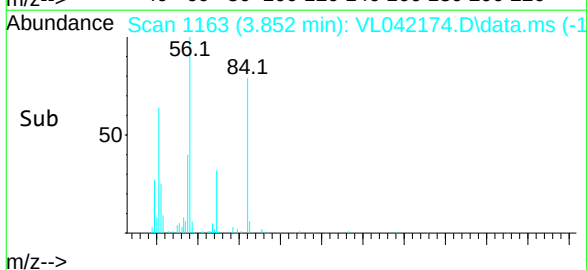
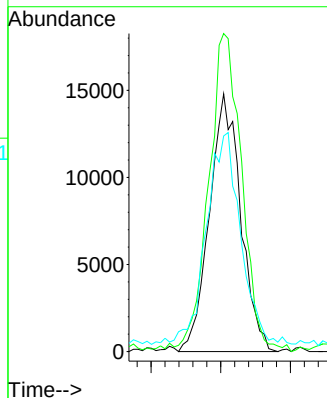
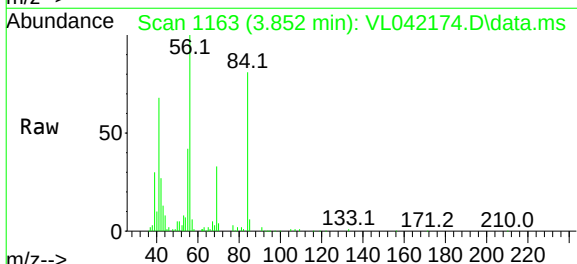
Tgt Ion: 84 Resp: 23052

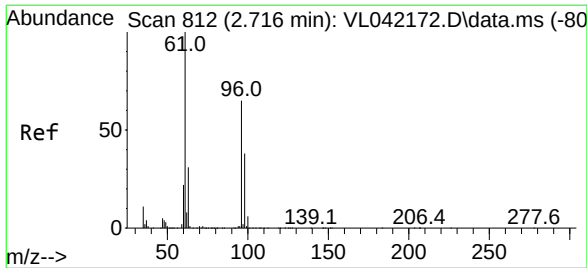
Ion Ratio Lower Upper

84 100

56 128.9 102.8 154.2

41 89.3 66.5 99.7





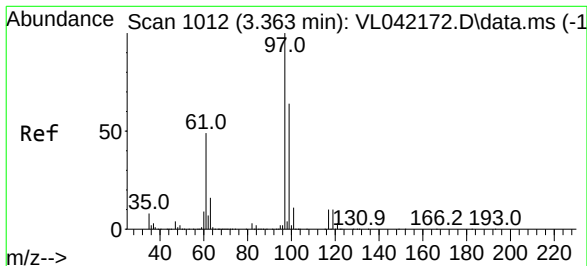
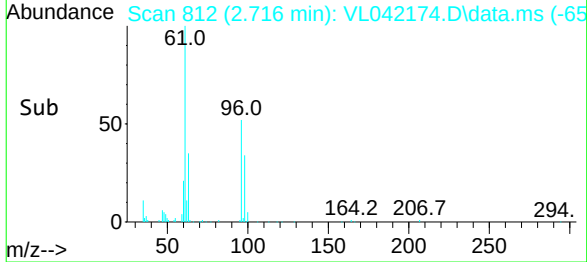
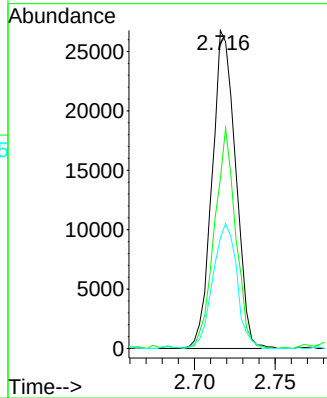
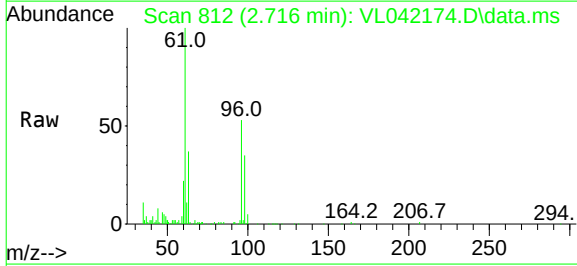
#31
 cis-1,2-Dichloroethene
 Concen: 1.026 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:	61	Resp:	27187
Ion	Ratio	Lower	Upper
61	100		
96	53.3	51.8	77.8
98	34.8	30.6	46.0

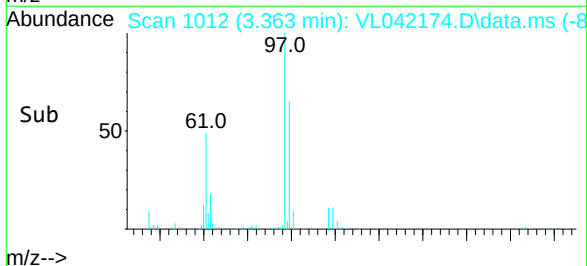
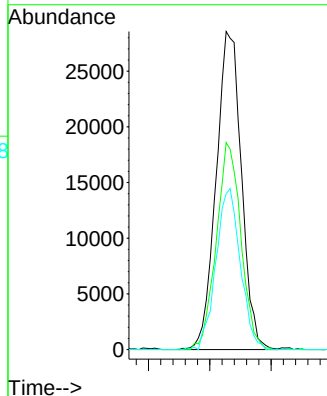
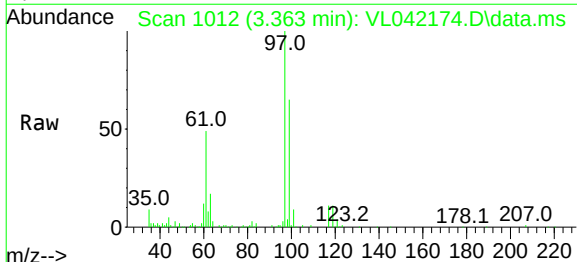
Manual Integrations
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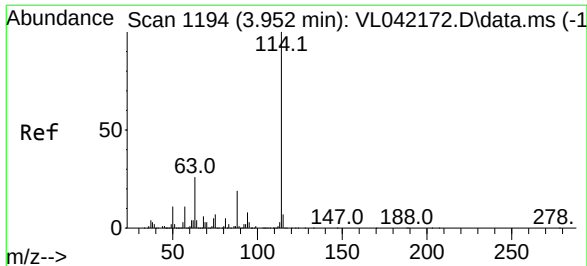
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.938 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

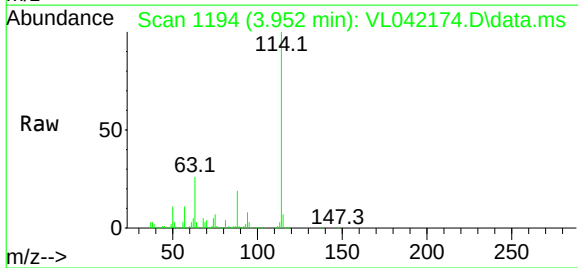
Tgt Ion:	97	Resp:	40993
Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.5	77.3
61	48.8	38.7	58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

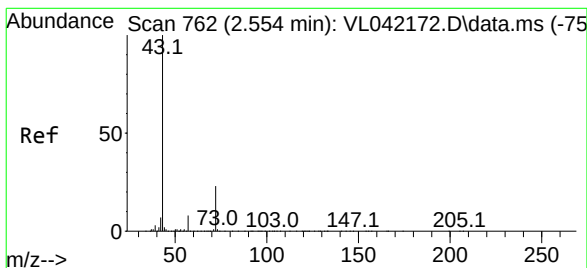
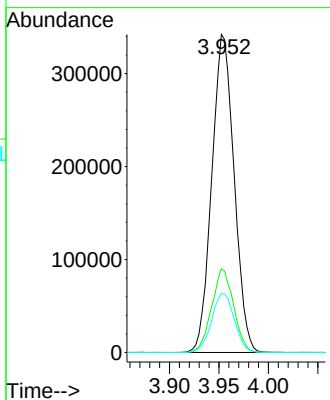
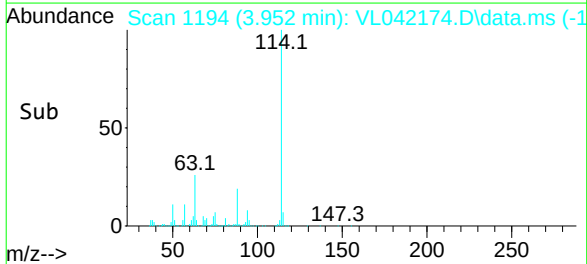
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



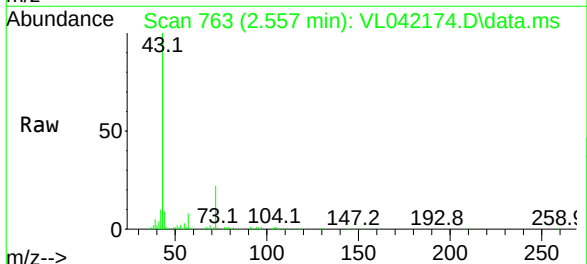
Tgt Ion: 114 Resp: 537244
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.8 15.0 22.4

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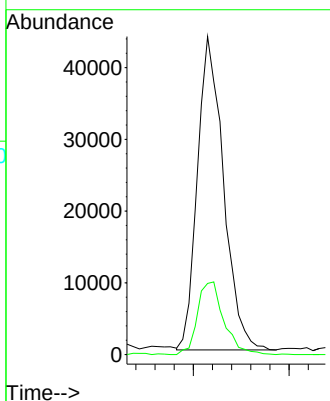
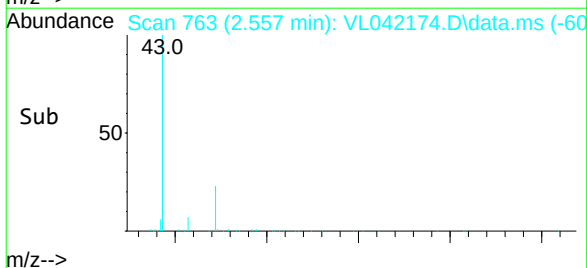
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

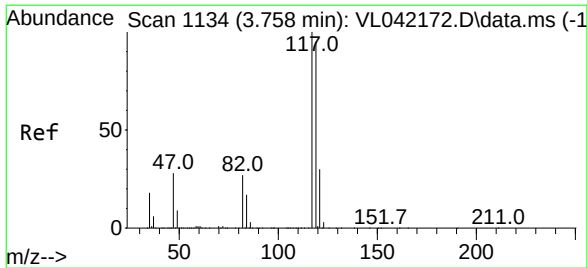


#34
2-Butanone
Concen: 1.063 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion: 43 Resp: 41423
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.952 ppbv

RT: 3.758 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042174.D

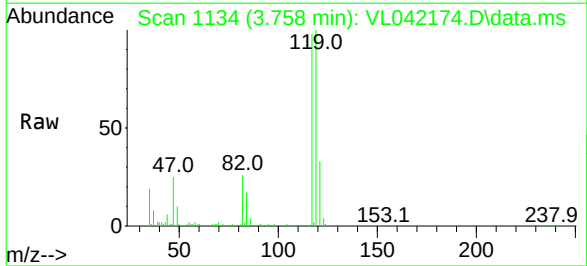
Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

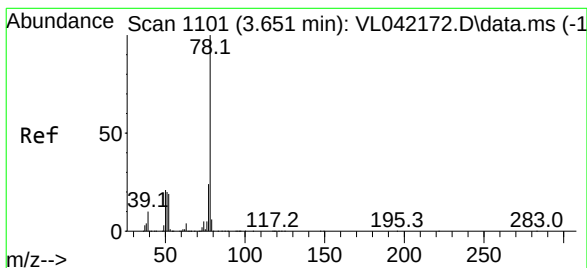
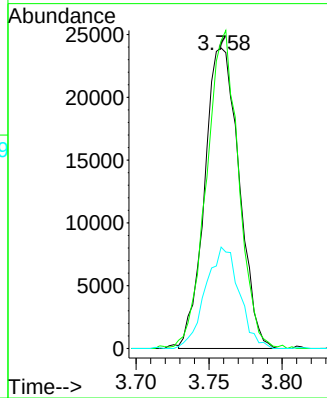
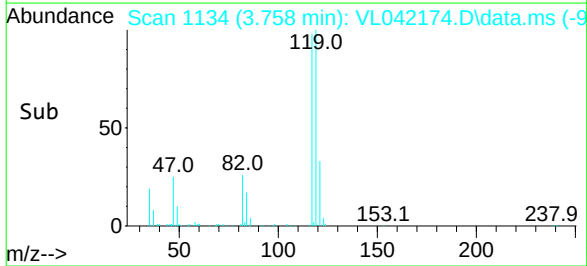


Tgt Ion:	117	Resp:	39345
Ion	Ratio	Lower	Upper
117	100		
119	101.8	76.2	114.2
121	33.7	24.2	36.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#36

Benzene

Concen: 1.036 ppbv

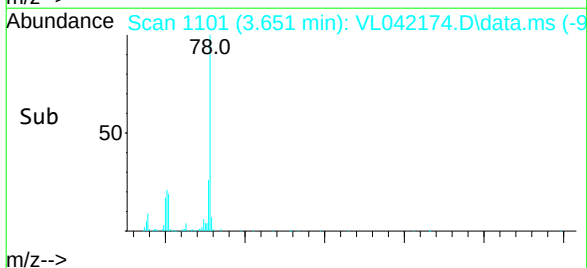
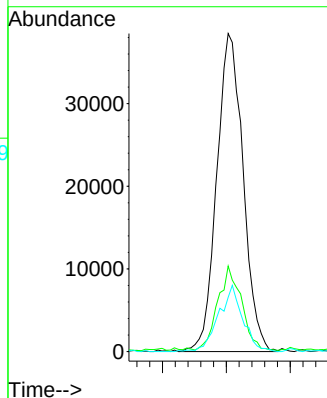
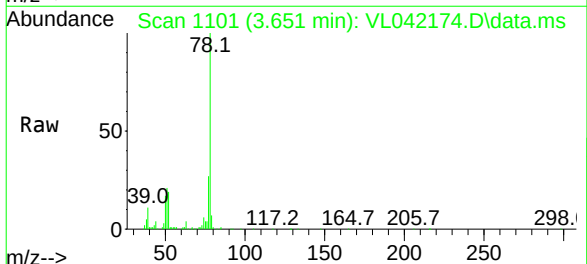
RT: 3.651 min Scan# 1101

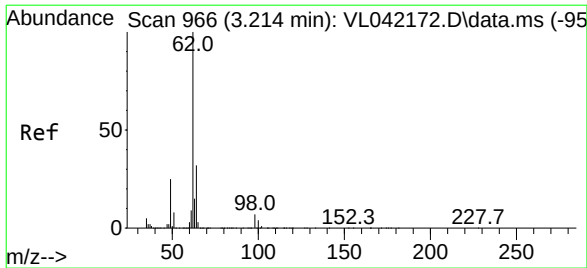
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	78	Resp:	55156
Ion	Ratio	Lower	Upper
78	100		
77	26.5	19.1	28.7
50	17.1	16.6	24.8





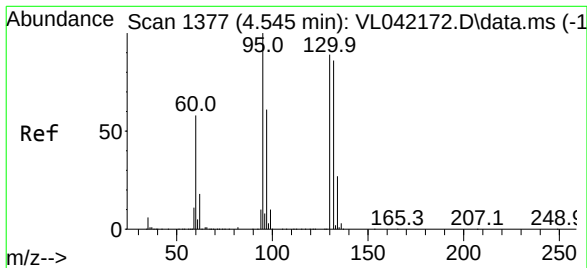
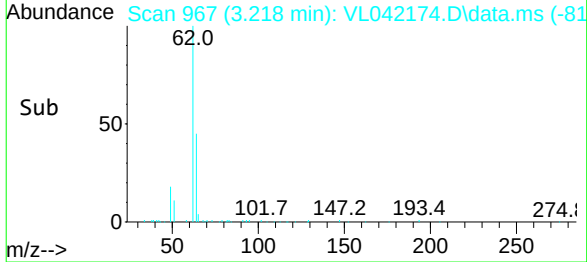
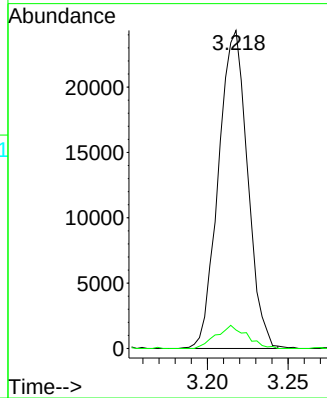
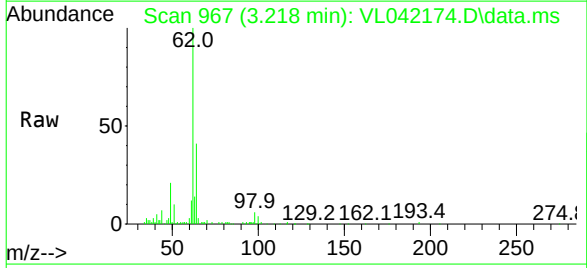
#37
1,2-Dichloroethane
Concen: 1.002 ppbv
RT: 3.218 min Scan# 966
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 30543
Ion Ratio Lower Upper
62 100
98 7.6 5.4 8.2

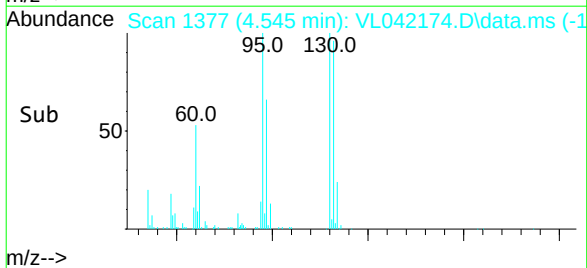
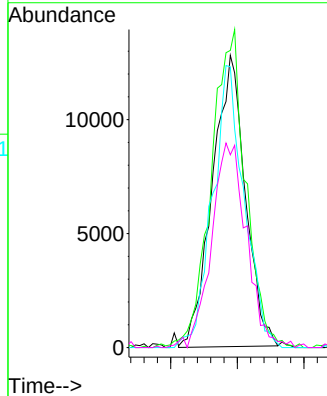
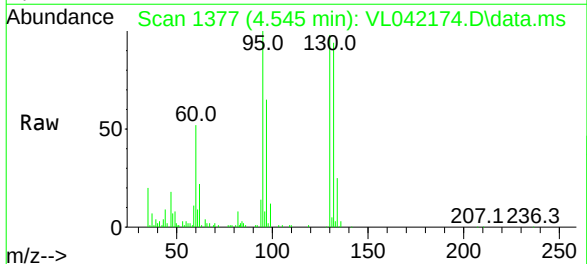
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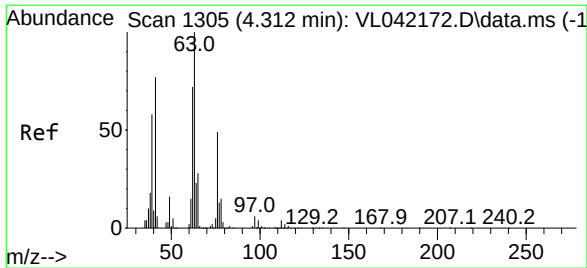
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 0.985 ppbv
RT: 4.545 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:130 Resp: 21906
Ion Ratio Lower Upper
130 100
95 100.2 89.8 134.8
132 95.3 77.4 116.2
97 64.3 55.1 82.7





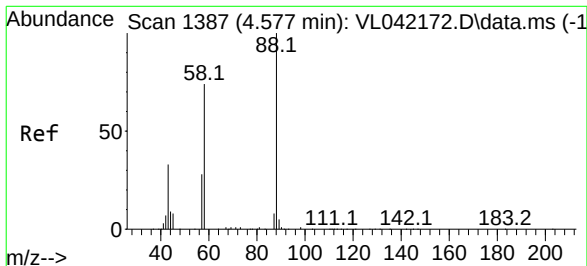
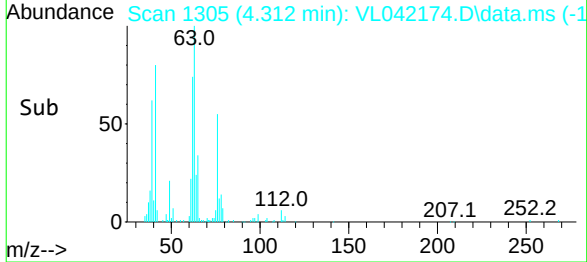
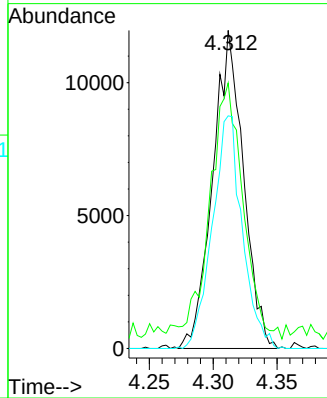
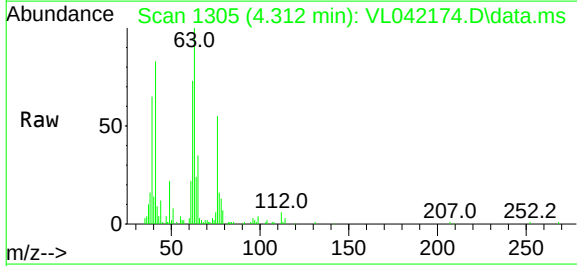
#39
1,2-Dichloropropane
Concen: 1.032 ppbv
RT: 4.312 min Scan# 1305
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 63 Resp: 20020
Ion Ratio Lower Upper
63 100
41 76.8 61.7 92.5
62 73.1 57.6 86.4

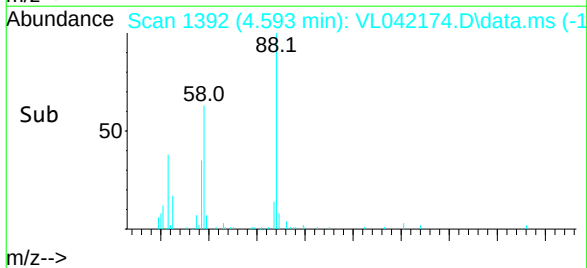
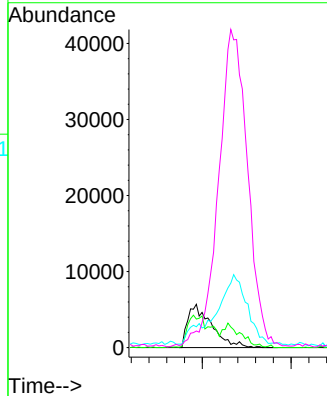
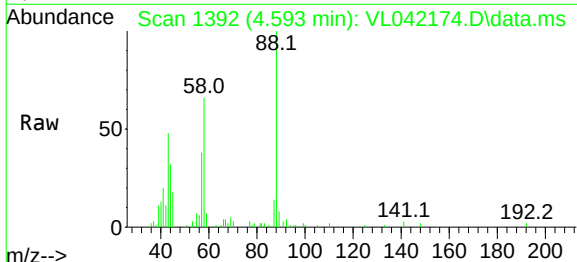
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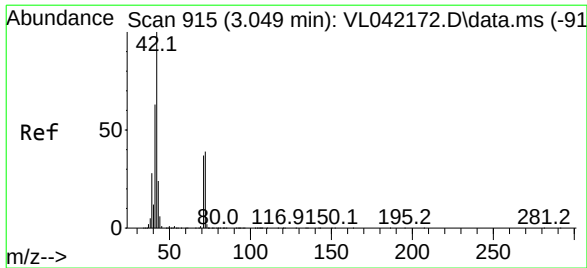
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#40
1,4-Dioxane
Concen: 1.052 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.016 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 88 Resp: 10592
Ion Ratio Lower Upper
88 100
58 115.3 62.7 94.1#
43 0.0 23.0 34.4#
57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 1.029 ppbv

RT: 3.056 min Scan# 91

Delta R.T. 0.007 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 42 Resp: 22818

Ion Ratio Lower Upper

42 100

72 39.4 31.4 47.0

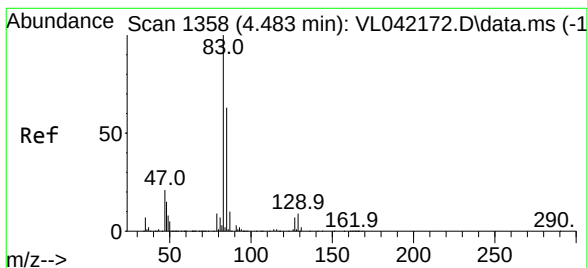
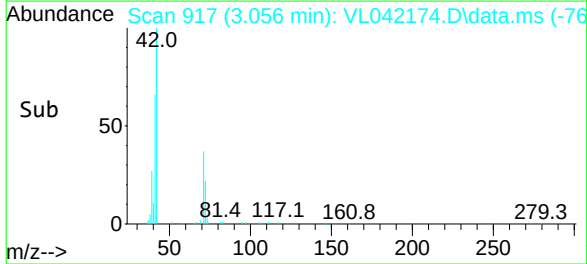
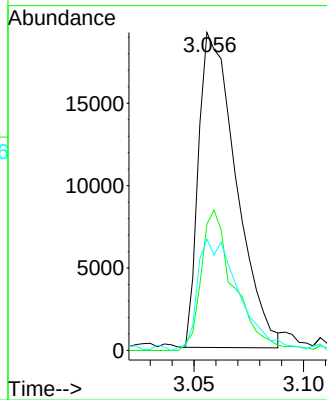
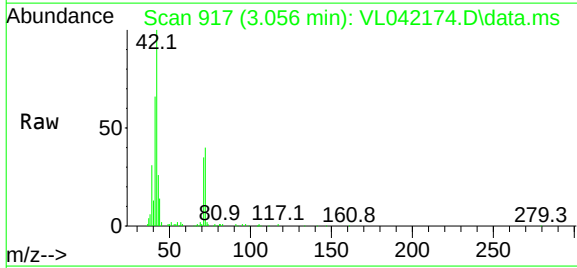
71 40.8 30.2 45.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 0.996 ppbv

RT: 4.483 min Scan# 1358

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

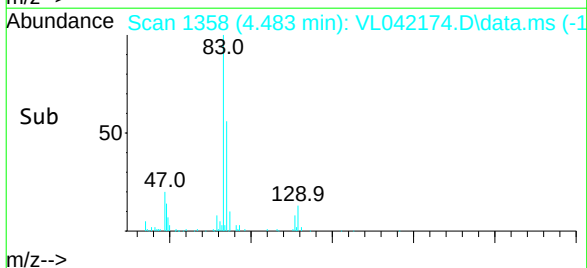
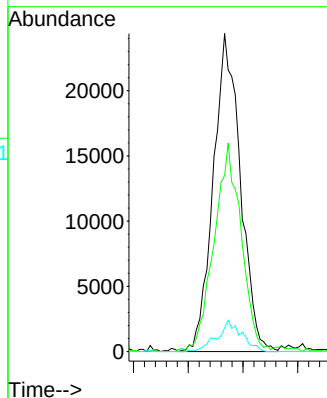
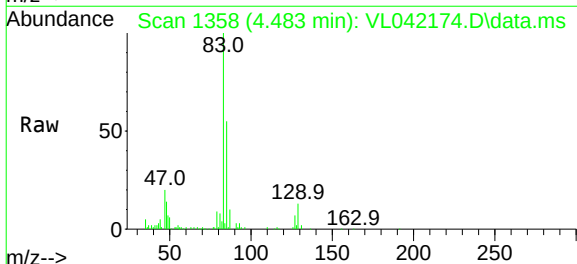
Tgt Ion: 83 Resp: 41864

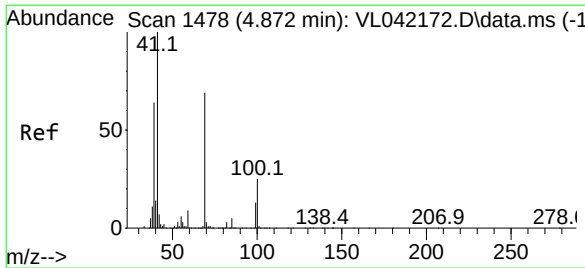
Ion Ratio Lower Upper

83 100

85 54.7 50.5 75.7

127 7.5 5.9 8.9





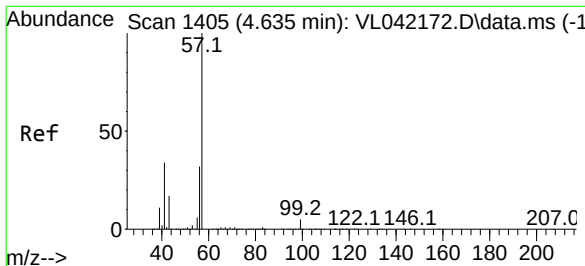
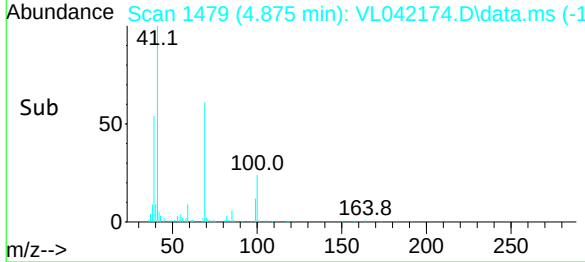
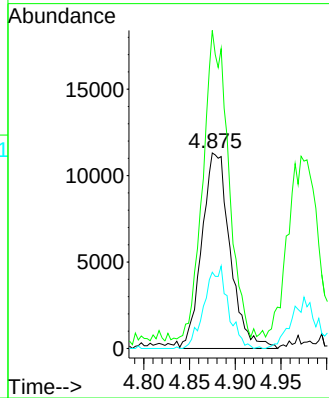
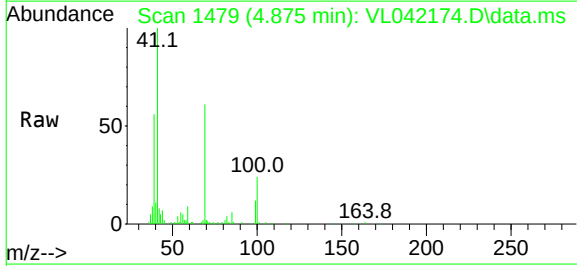
#43
Methyl Methacrylate
Concen: 1.078 ppbv m
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 24233
Ion Ratio Lower Upper
69 100
41 146.1 123.8 185.6
100 0.0 28.4 42.6

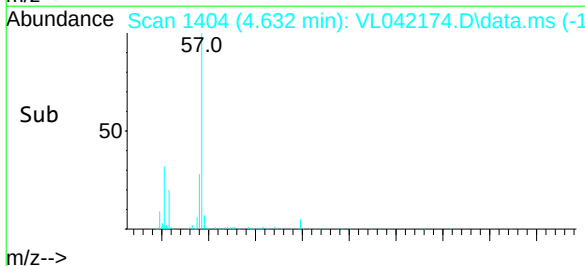
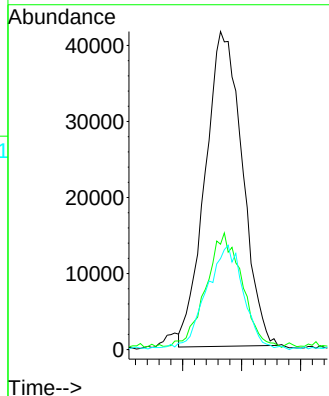
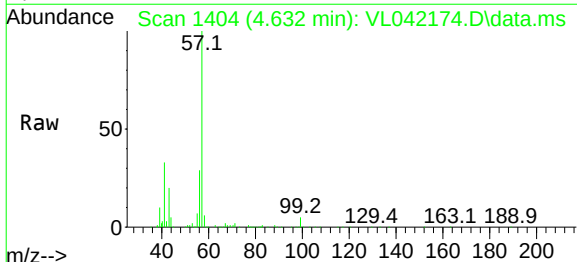
Manual Integrations
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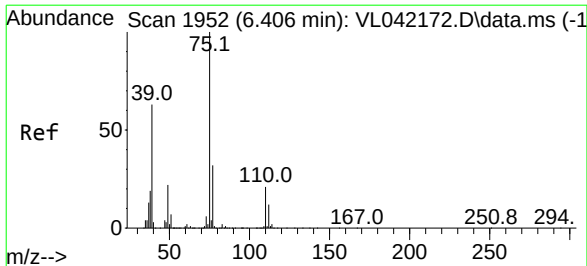
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 1.008 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

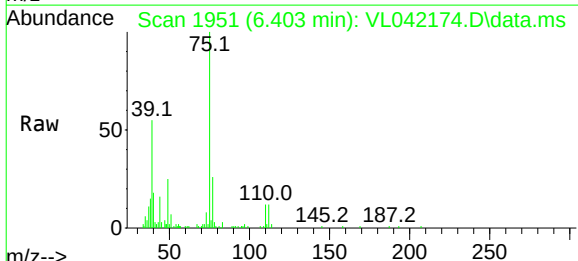
Tgt Ion: 57 Resp: 90727
Ion Ratio Lower Upper
57 100
41 35.9 26.8 40.2
56 33.7 25.6 38.4





#45
t-1,3-Dichloropropene
Concen: 0.992 ppbv m
RT: 6.403 min Scan# 1952
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

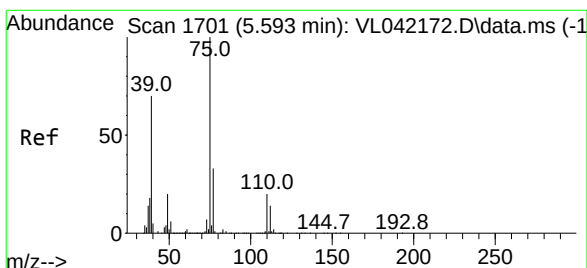
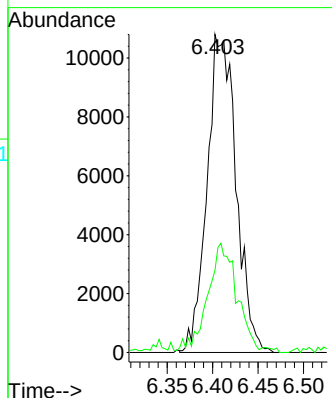
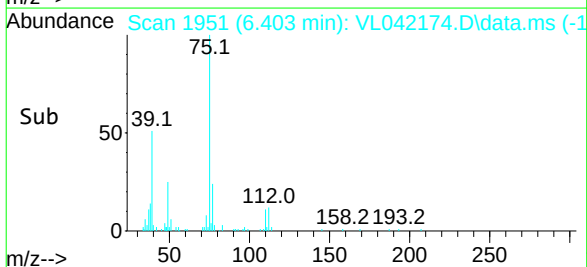
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion: 75 Resp: 23993
Ion Ratio Lower Upper
75 100
77 25.9 26.0 39.0

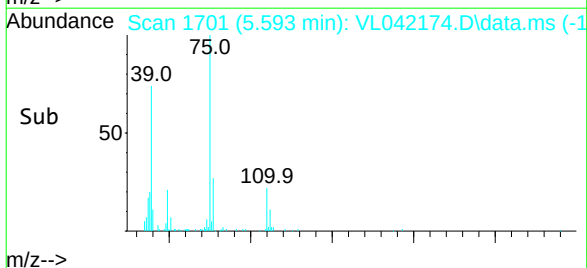
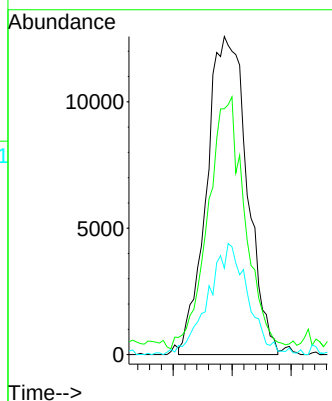
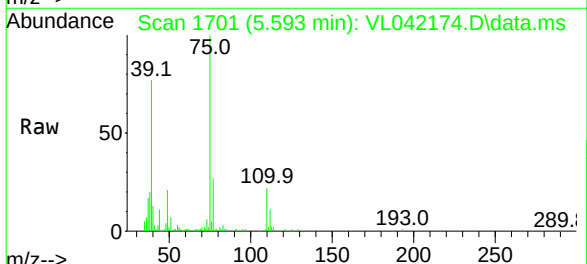
Manual Integrations
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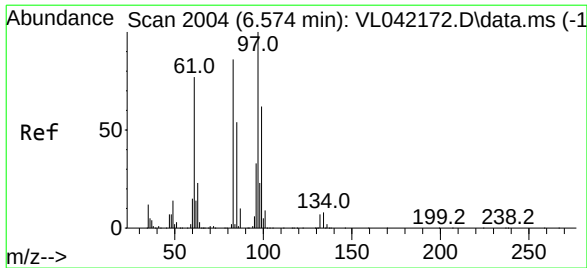
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#46
cis-1,3-Dichloropropene
Concen: 1.014 ppbv
RT: 5.593 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

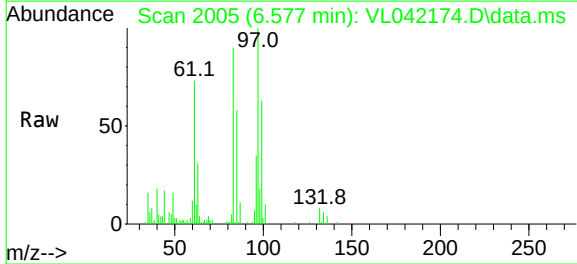
Tgt Ion: 75 Resp: 30063
Ion Ratio Lower Upper
75 100
39 74.2 55.8 83.6
77 26.4 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 1.002 ppbv
RT: 6.577 min Scan# 20546
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

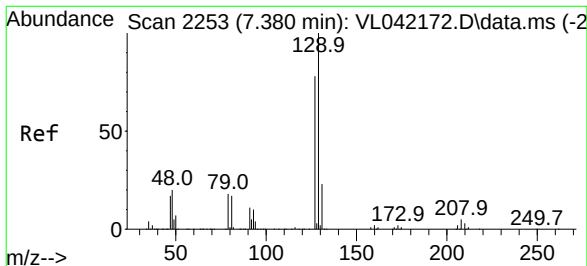
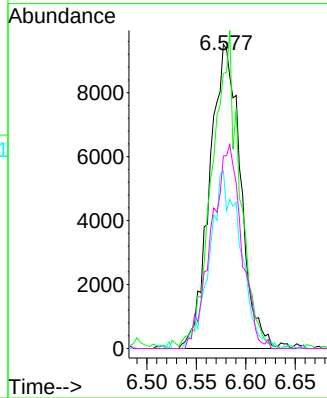
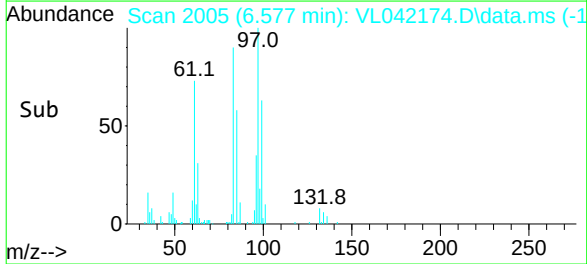
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.7	69.2	103.8
85	58.4	43.1	64.7
99	63.2	49.4	74.2

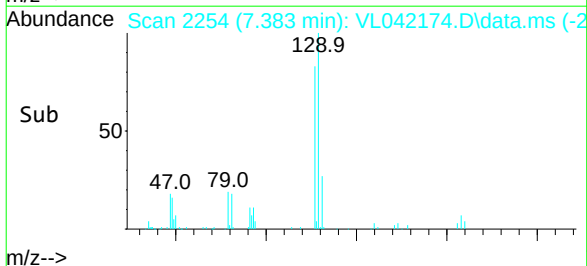
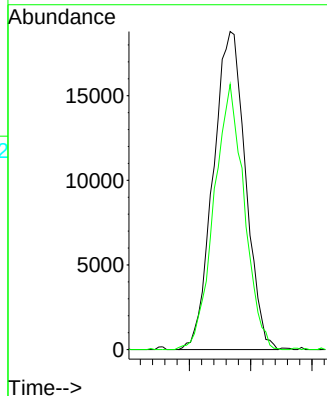
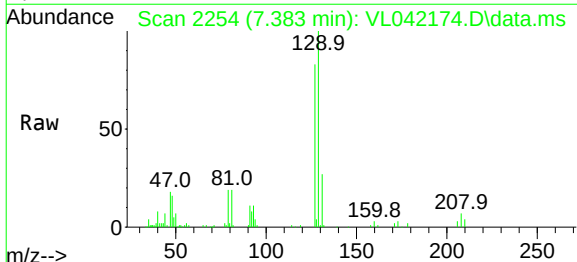
Manual Integrations
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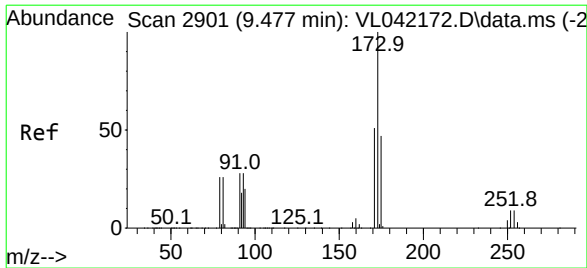
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 0.991 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2





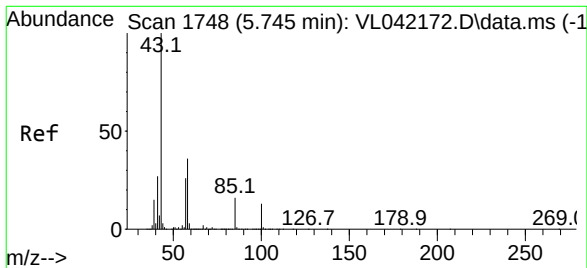
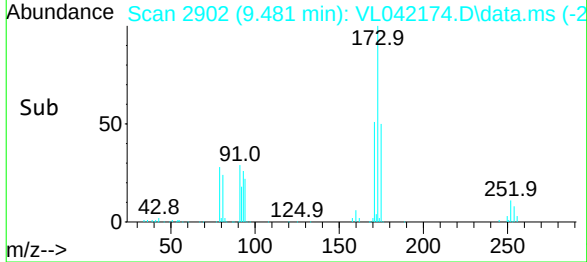
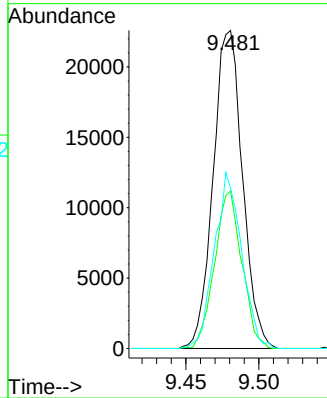
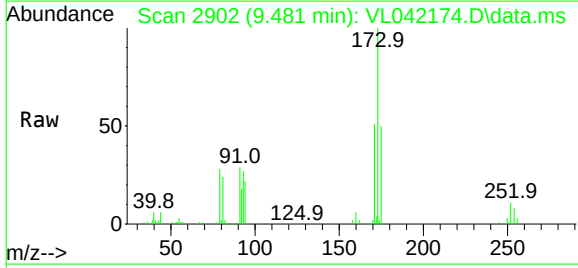
#49
Bromoform
Concen: 1.013 ppbv
RT: 9.481 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 173 Resp: 31610
Ion Ratio Lower Upper
173 100
175 46.1 38.6 57.8
171 51.3 41.8 62.6

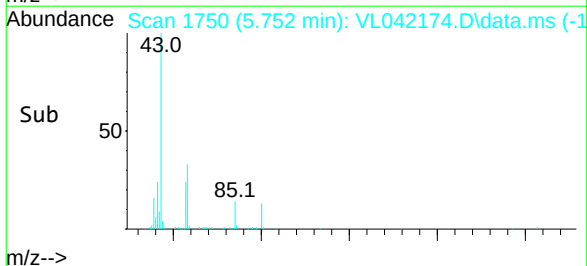
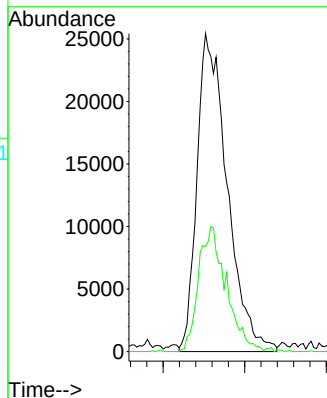
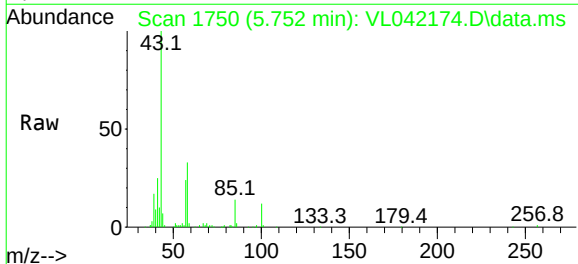
Manual Integrations
APPROVED

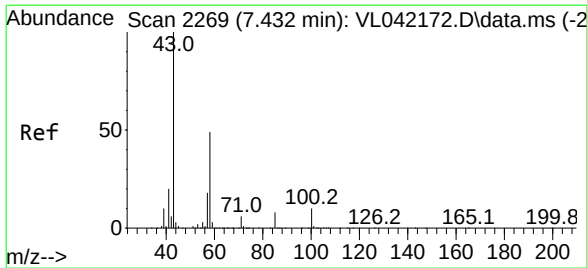
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 1.056 ppbv m
RT: 5.752 min Scan# 1750
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

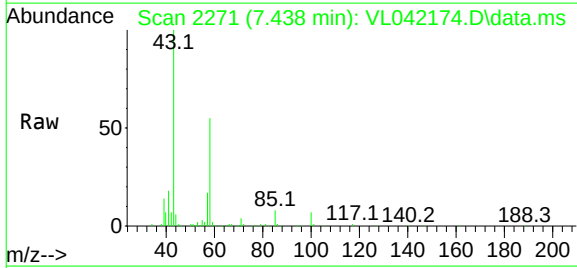
Tgt Ion: 43 Resp: 65226
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#





#51
2-Hexanone
Concen: 1.067 ppbv
RT: 7.438 min Scan# 2269
Delta R.T. 0.007 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

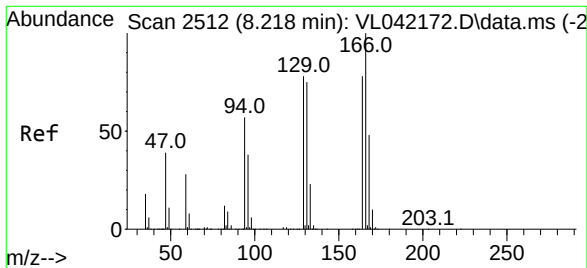
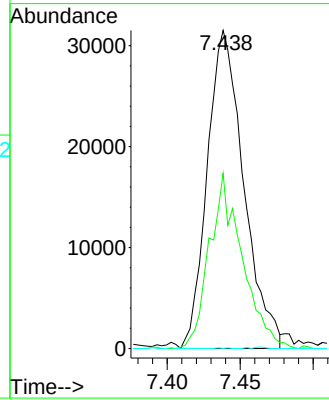
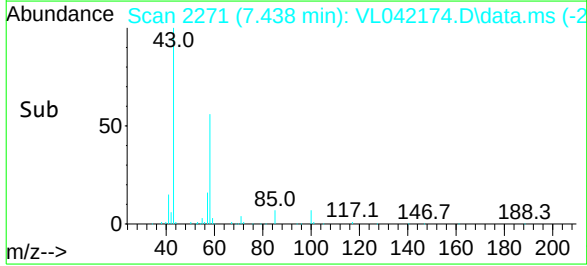
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 54680
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.2 0.1 0.1

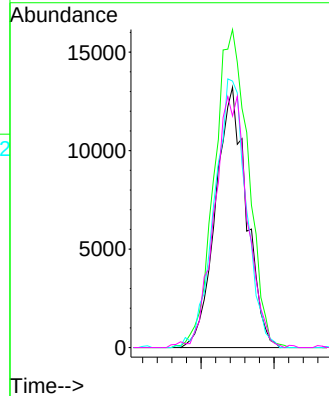
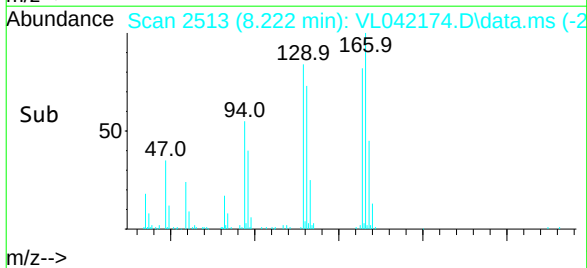
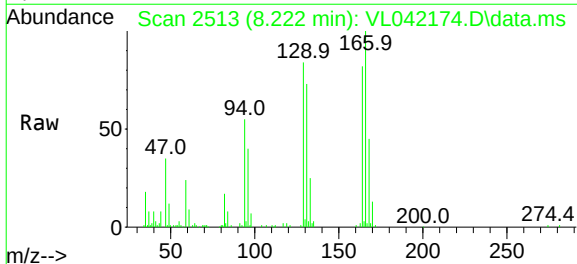
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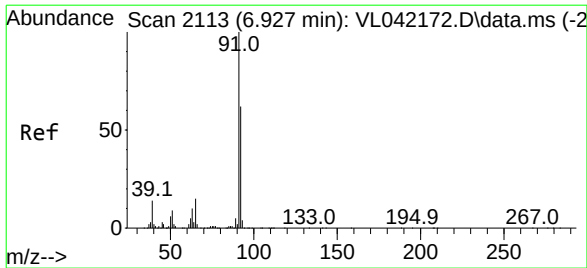
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#52
Tetrachloroethene
Concen: 0.919 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:164 Resp: 19415
Ion Ratio Lower Upper
164 100
166 121.4 102.5 153.7
129 102.4 79.8 119.8
131 88.1 76.6 114.8





#53

Toluene

Concen: 1.023 ppbv

RT: 6.927 min Scan# 2113

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 91 Resp: 64612

Ion Ratio Lower Upper

91 100

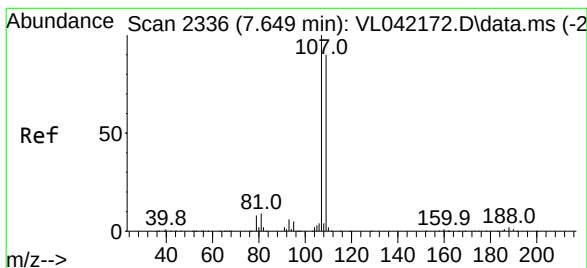
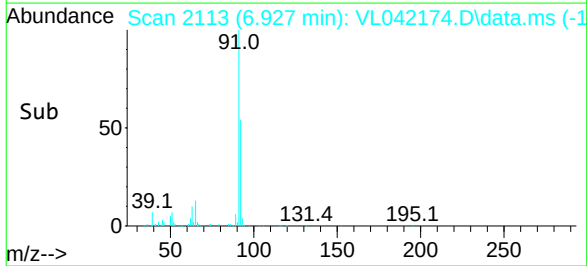
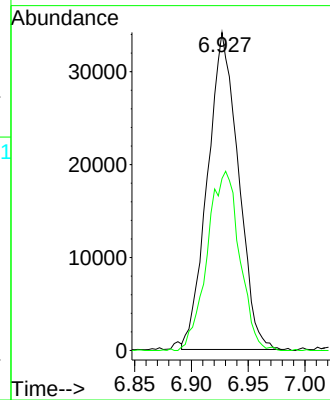
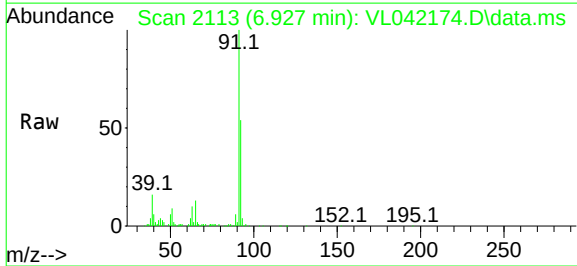
92 59.4 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 1.009 ppbv

RT: 7.652 min Scan# 2337

Delta R.T. 0.003 min

Lab File: VL042174.D

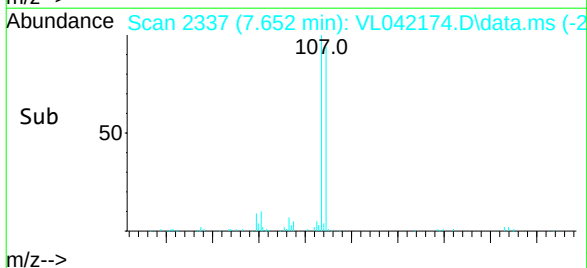
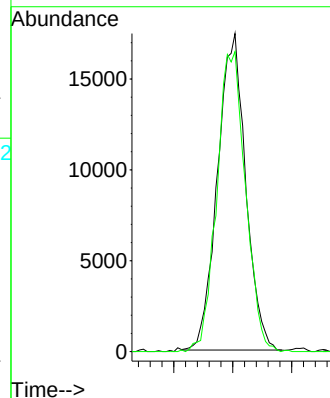
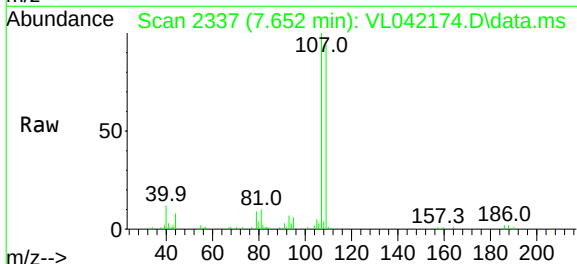
Acq: 27 Mar 2025 09:30

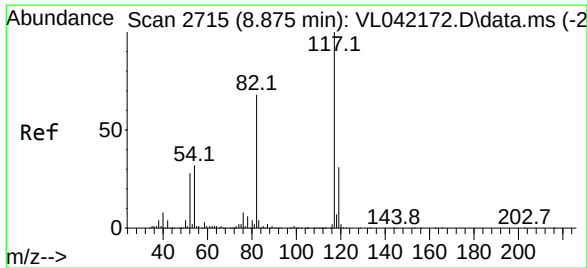
Tgt Ion:107 Resp: 28879

Ion Ratio Lower Upper

107 100

109 94.8 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

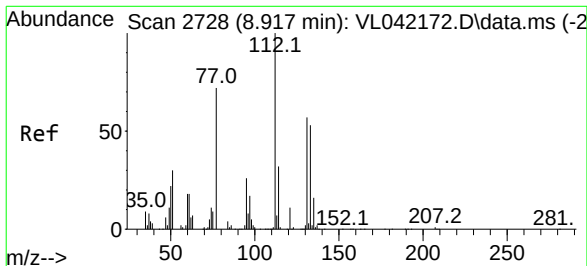
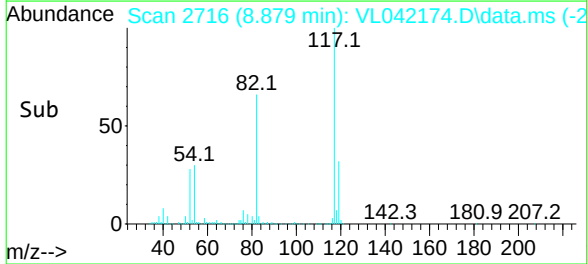
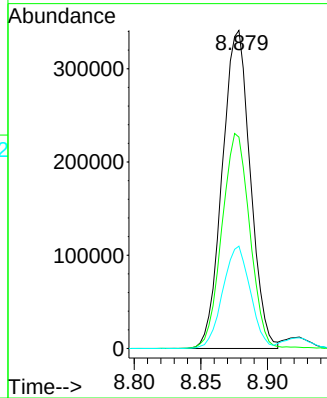
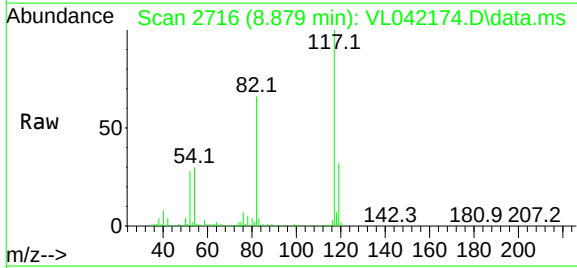
ClientSampleId :

VSTDIC001

Tgt Ion:	117	Resp:	499836
Ion	Ratio	Lower	Upper
117	100		
82	67.6	55.8	83.6
119	32.2	25.5	38.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.045 ppbv

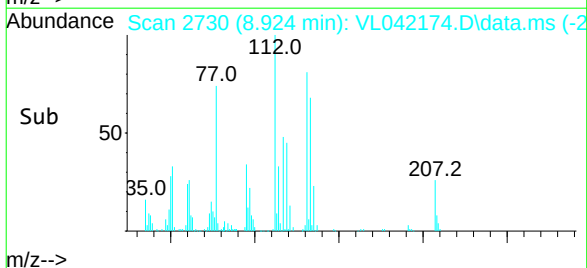
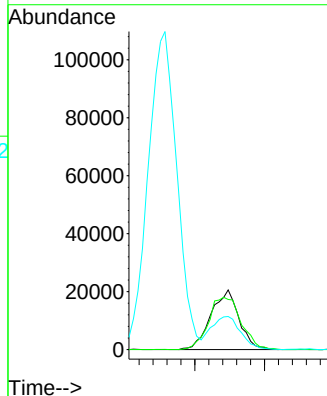
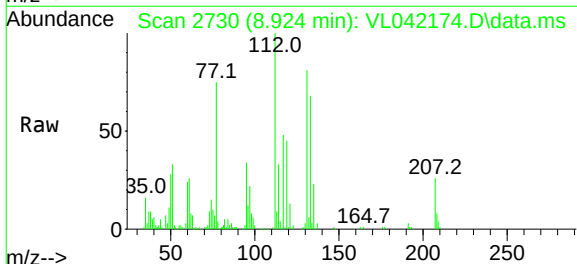
RT: 8.924 min Scan# 2730

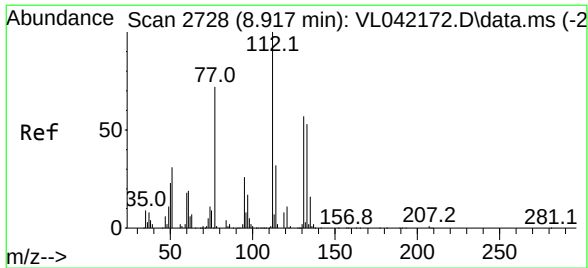
Delta R.T. 0.007 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	131	Resp:	28764
Ion	Ratio	Lower	Upper
131	100		
133	101.7	76.6	114.8
119	44.1	49.8	74.6

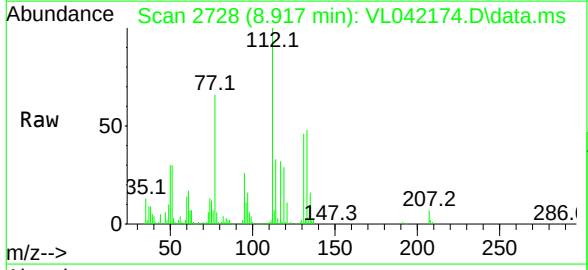




#57
 Chlorobenzene
 Concen: 1.032 ppbv
 RT: 8.917 min Scan# 2728
 Delta R.T. 0.000 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

Instrument :

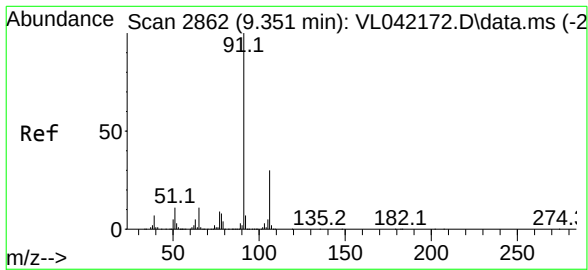
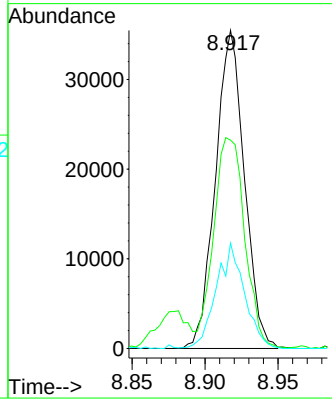
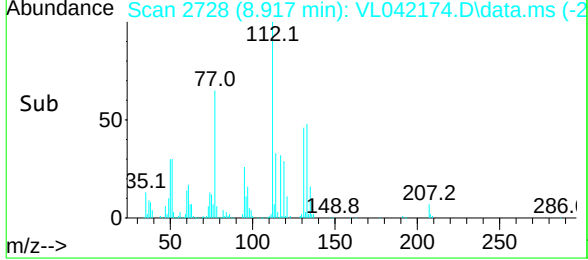
MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:	112	Resp:	48936
Ion Ratio	Lower	Upper	
112	100		
77	65.0	58.2	87.2
114	32.9	29.1	35.5

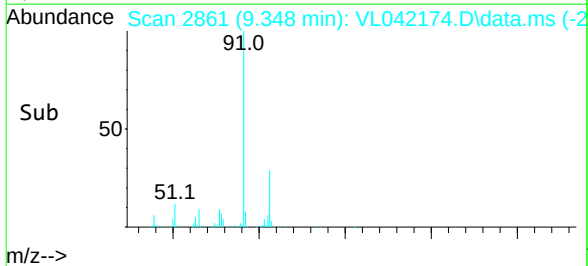
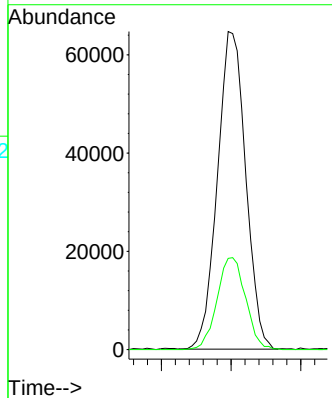
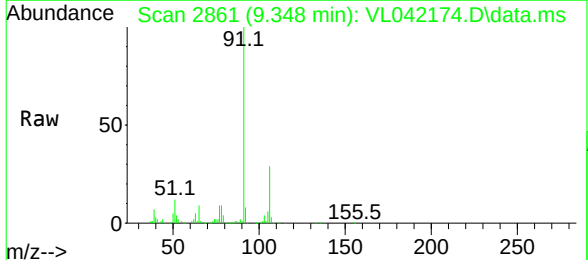
Manual Integrations
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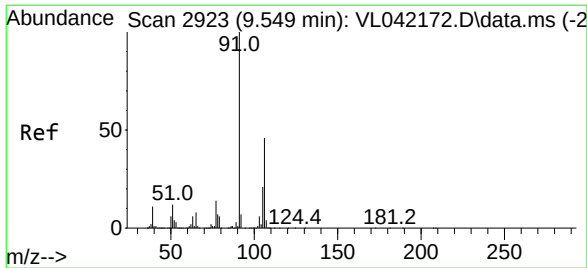
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#58
 Ethyl Benzene
 Concen: 1.026 ppbv
 RT: 9.348 min Scan# 2861
 Delta R.T. -0.003 min
 Lab File: VL042174.D
 Acq: 27 Mar 2025 09:30

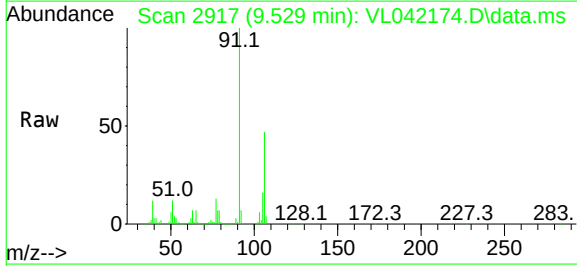
Tgt Ion:	91	Resp:	91086
Ion Ratio	Lower	Upper	
91	100		
106	28.7	24.2	36.2





#59
m/p-Xylene
Concen: 2.073 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.019 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

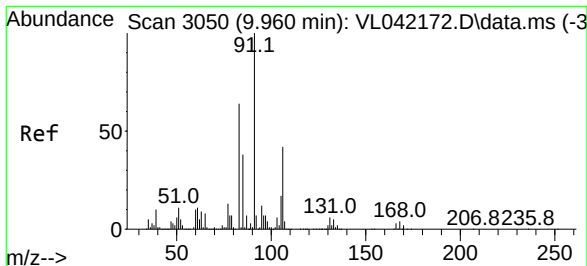
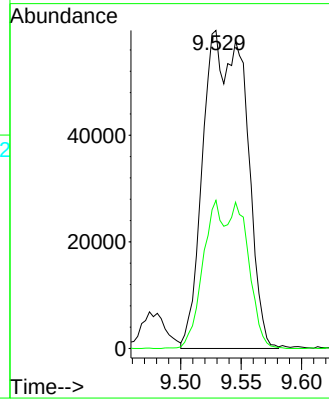
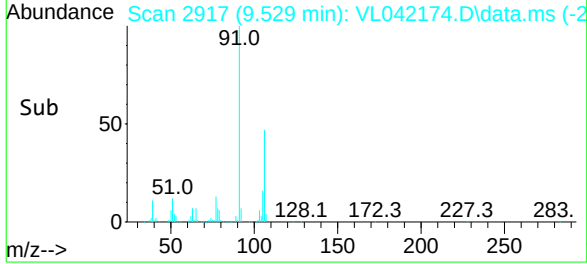
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



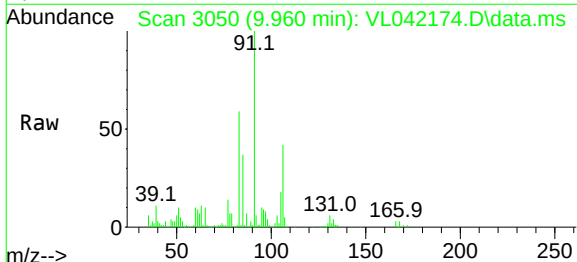
Tgt Ion: 91 Resp: 147162
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

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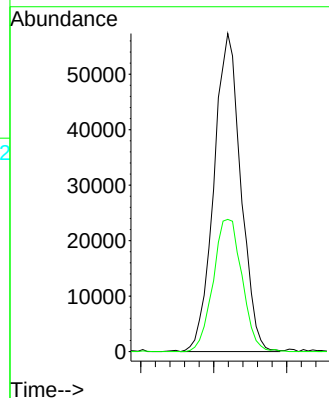
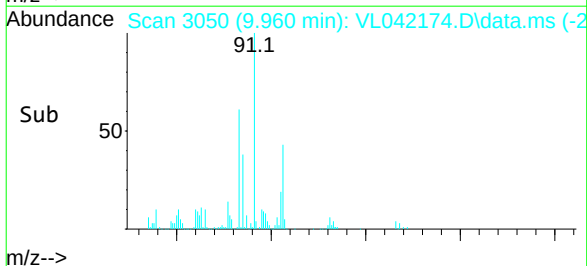
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

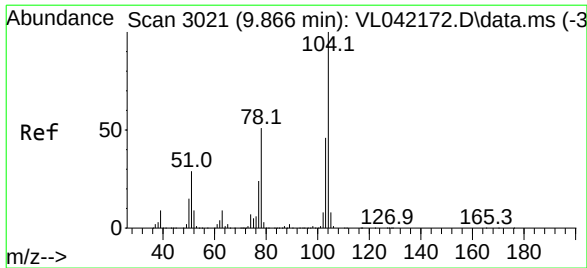


#60
o-Xylene
Concen: 1.037 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



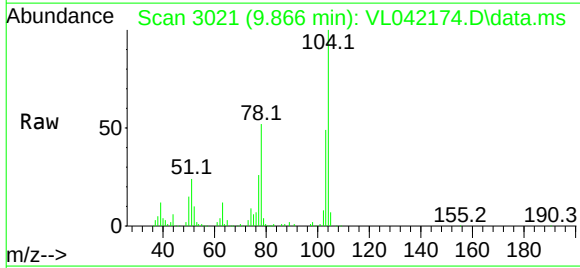
Tgt Ion: 91 Resp: 73702
Ion Ratio Lower Upper
91 100
106 44.3 20.8 62.5





#61
Styrene
Concen: 1.027 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

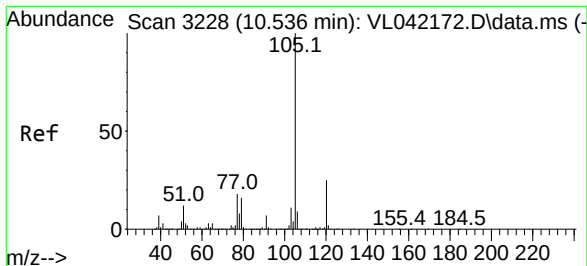
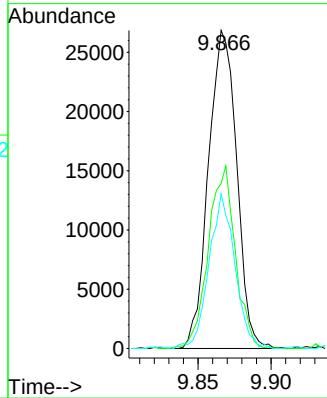
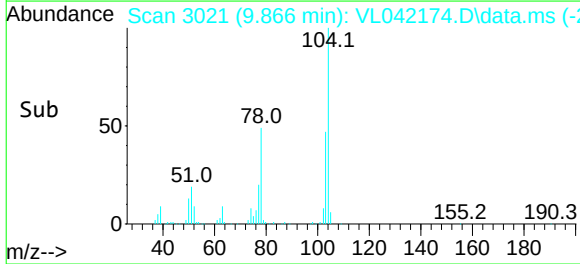
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



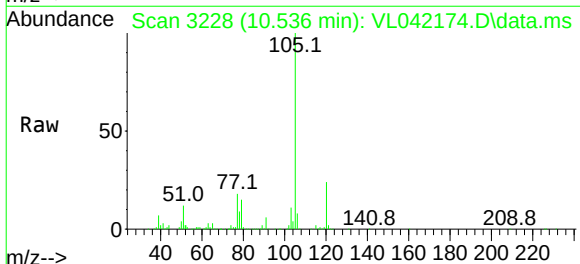
Tgt Ion:104 Resp: 36110
Ion Ratio Lower Upper
104 100
78 54.9 41.8 62.6
103 45.1 37.0 55.4

Manual Integrations
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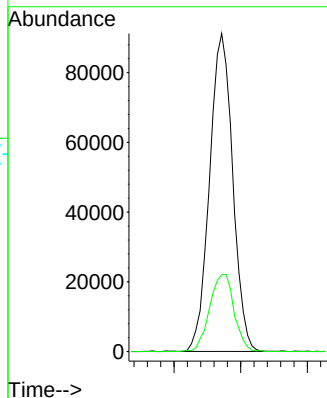
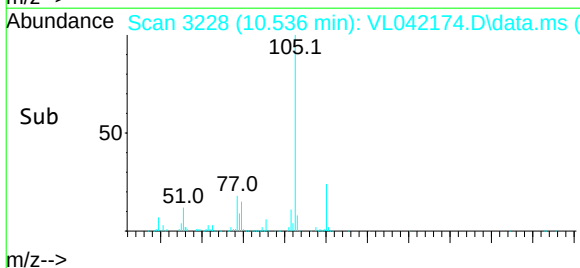
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

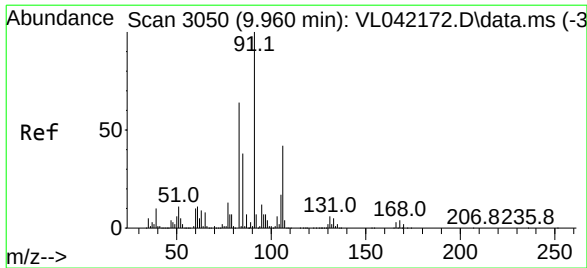


#62
Isopropylbenzene
Concen: 1.034 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



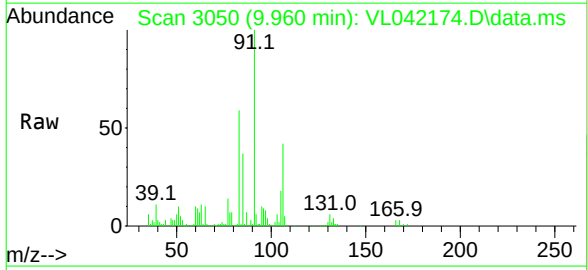
Tgt Ion:105 Resp: 109897
Ion Ratio Lower Upper
105 100
120 25.7 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 1.029 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

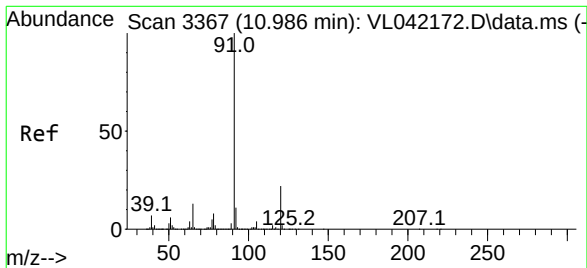
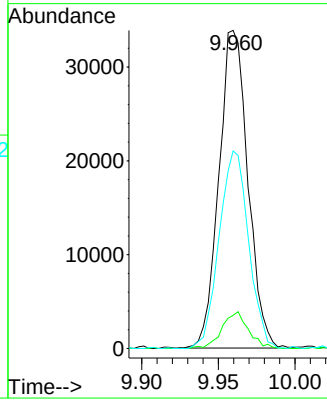
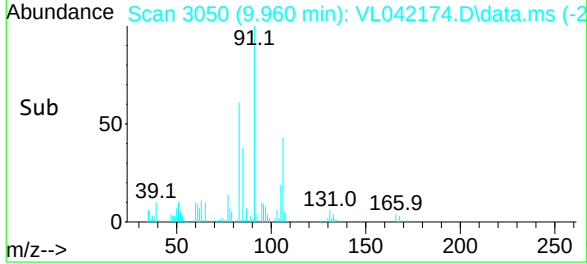
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 83 Resp: 44431
Ion Ratio Lower Upper
83 100
131 10.6 4.8 14.4
85 64.0 32.5 97.5

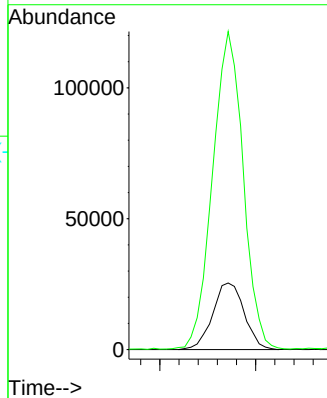
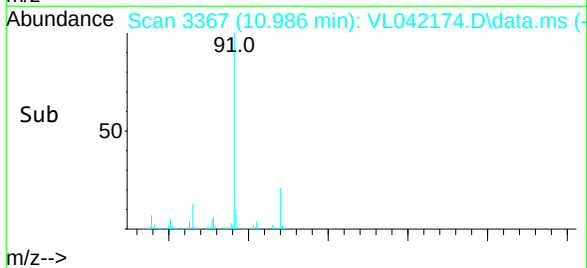
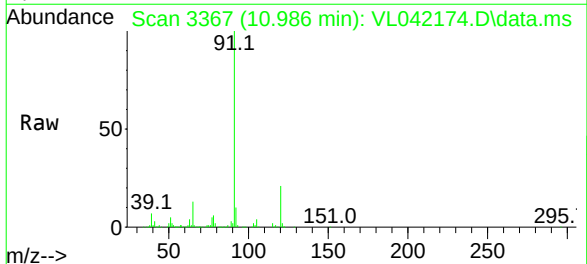
Manual Integrations
APPROVED

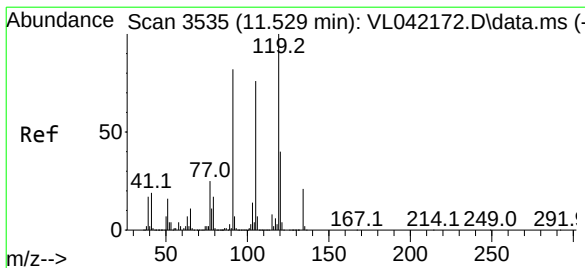
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 1.062 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:120 Resp: 29054
Ion Ratio Lower Upper
120 100
91 466.9 376.9 565.3





#65

tert-Butylbenzene

Concen: 1.053 ppbv

RT: 11.526 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

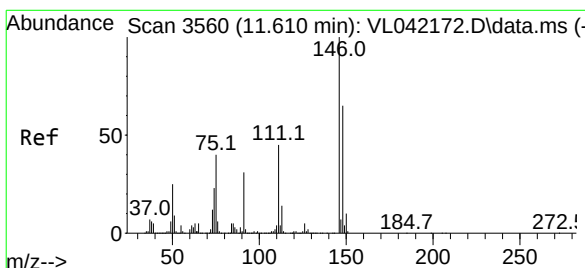
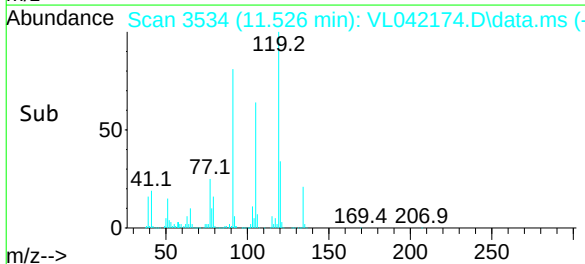
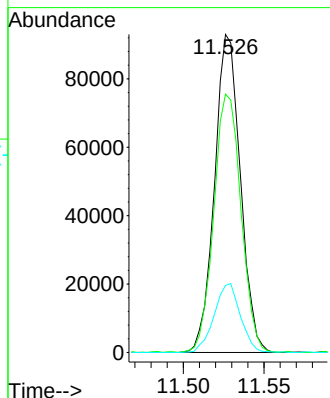
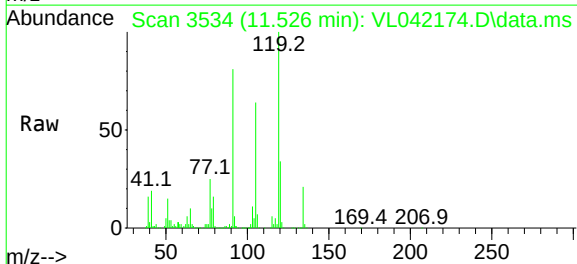
VSTDIC001

Tgt Ion:	119	Resp:	103520
Ion	Ratio	Lower	Upper
119	100		
91	85.9	66.0	99.0
134	22.1	16.7	25.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 1.022 ppbv

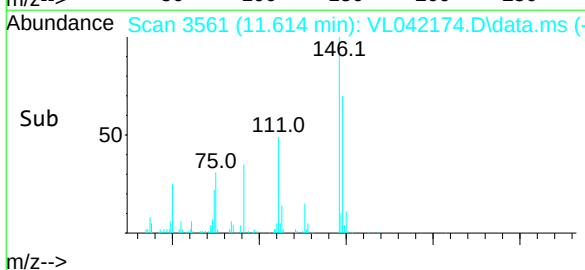
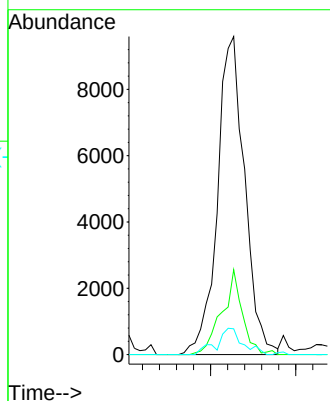
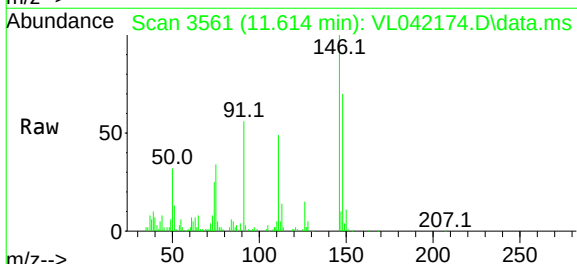
RT: 11.614 min Scan# 3561

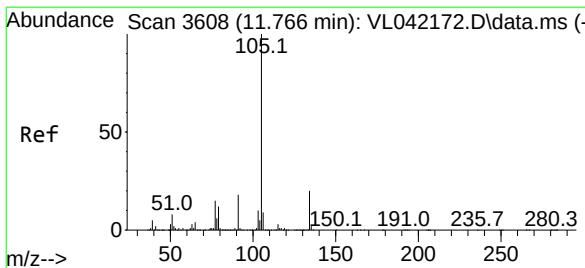
Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	91	Resp:	10660
Ion	Ratio	Lower	Upper
91	100		
126	20.0	13.8	20.6
128	8.0	4.5	6.7





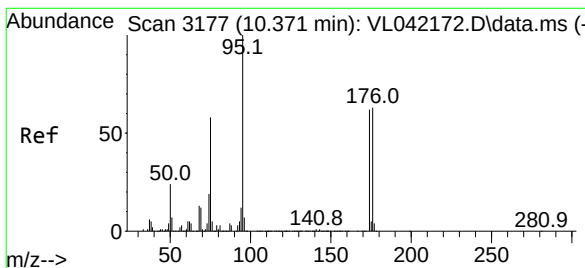
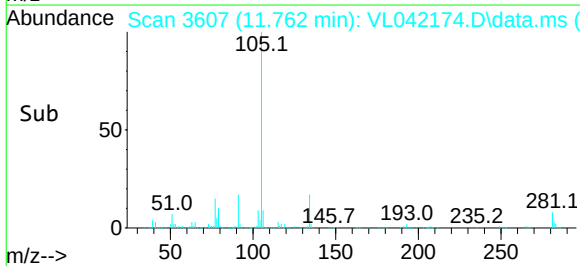
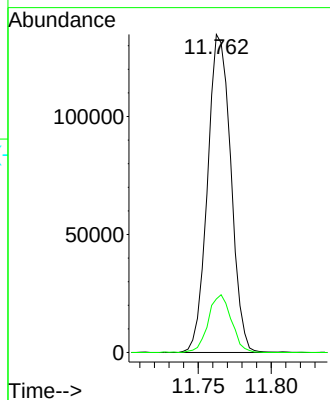
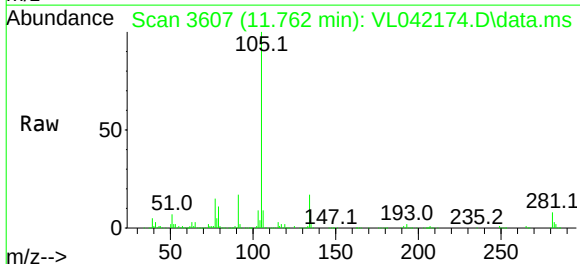
#67
sec-Butylbenzene
Concen: 1.095 ppbv
RT: 11.762 min Scan# 3608
Delta R.T. -0.003 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 105 Resp: 149660
Ion Ratio Lower Upper
105 100
134 18.1 15.5 23.3

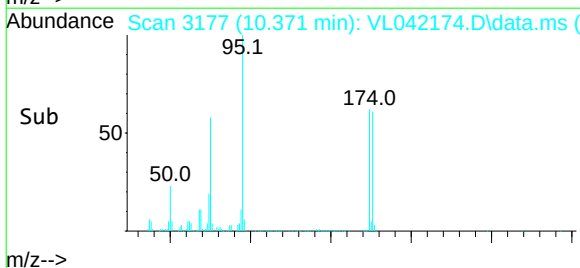
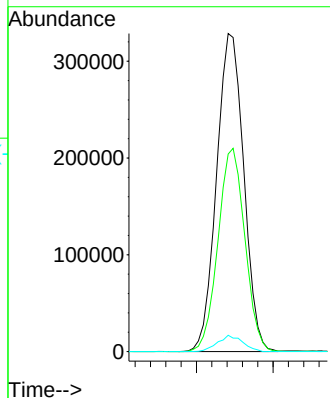
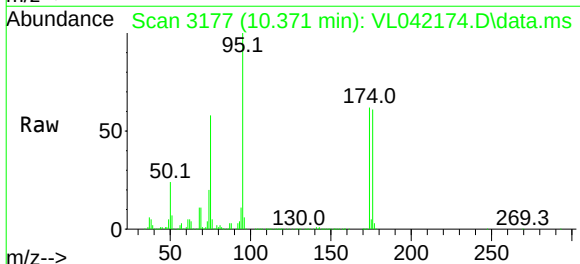
Manual Integrations
APPROVED

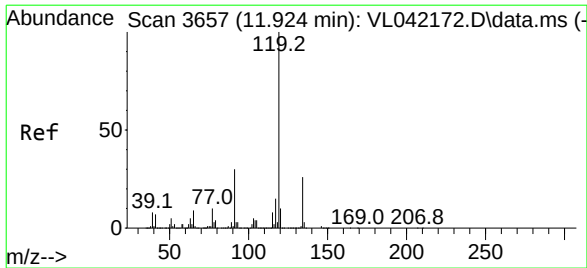
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.861 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion: 95 Resp: 404753
Ion Ratio Lower Upper
95 100
174 63.4 50.6 76.0
175 4.7 3.8 5.6





#69

p-Isopropyltoluene

Concen: 1.084 ppbv

RT: 11.921 min Scan# 3656

Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

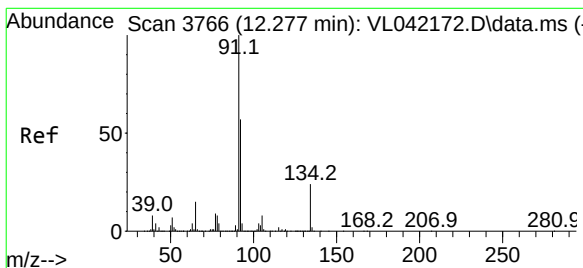
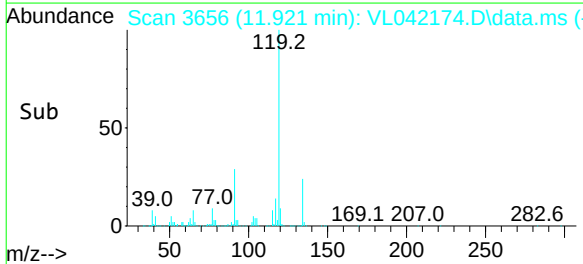
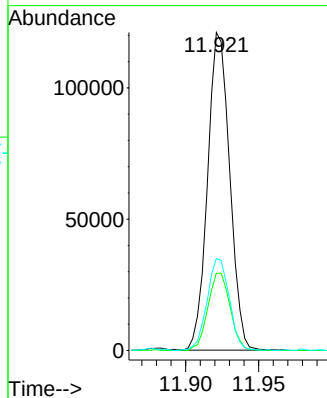
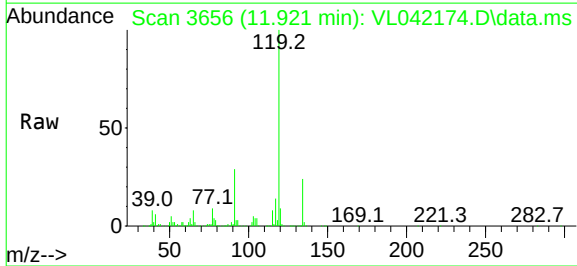
VSTDICC001

Tgt Ion:	119	Resp:	127509
Ion	Ratio	Lower	Upper
119	100		
134	24.6	20.4	30.6
91	30.0	23.7	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 1.079 ppbv

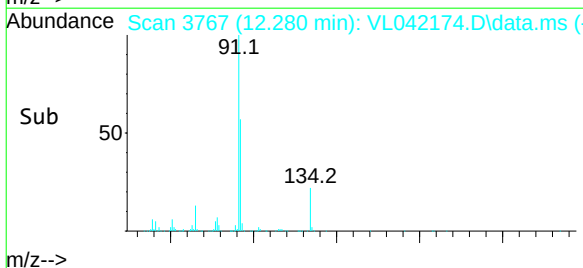
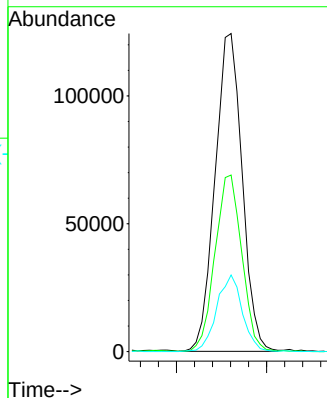
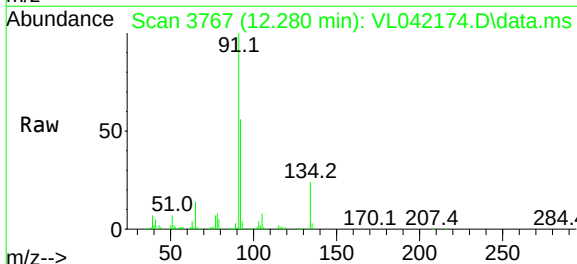
RT: 12.280 min Scan# 3767

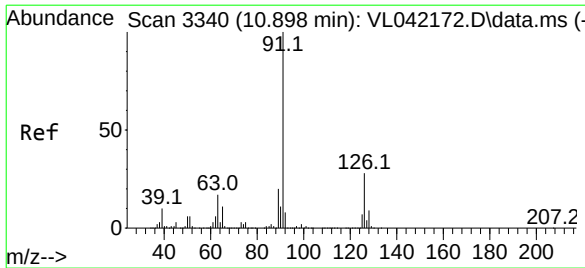
Delta R.T. 0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	91	Resp:	129860
Ion	Ratio	Lower	Upper
91	100		
92	55.5	44.9	67.3
134	22.8	19.2	28.8





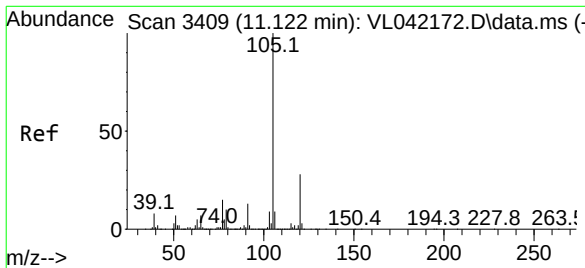
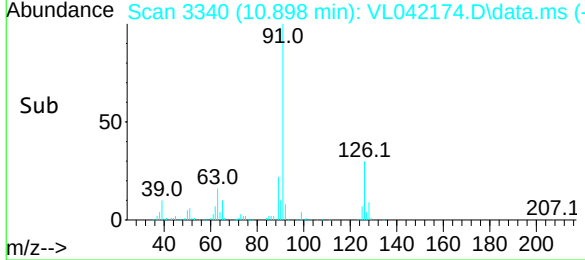
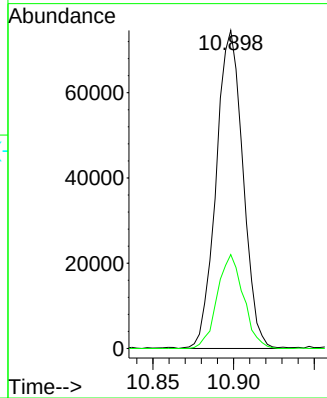
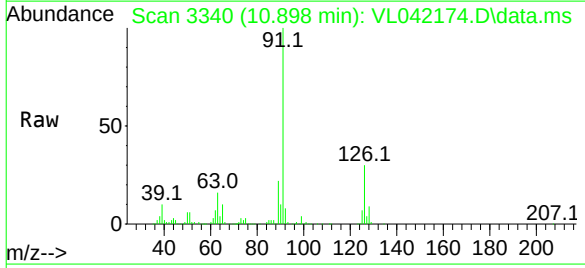
#71
2-Chlorotoluene
Concen: 1.047 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 86356
Ion Ratio Lower Upper
91 100
126 28.8 11.6 46.4

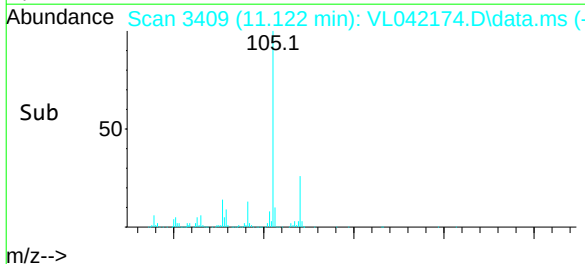
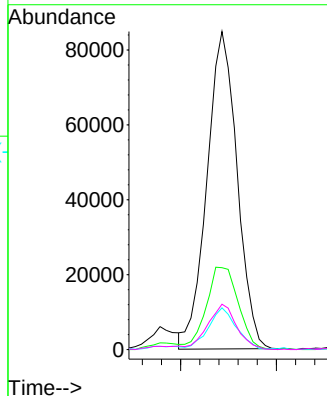
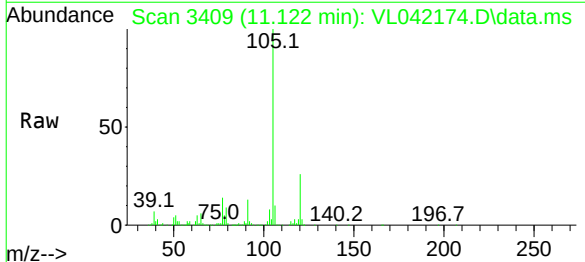
Manual Integrations
APPROVED

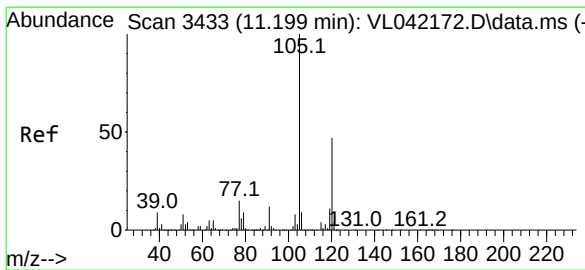
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 1.050 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

Tgt Ion:105 Resp: 92912
Ion Ratio Lower Upper
105 100
120 29.7 23.4 35.0
91 13.5 10.3 15.5
77 15.1 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 1.080 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

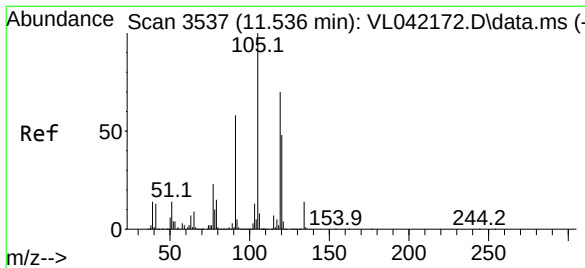
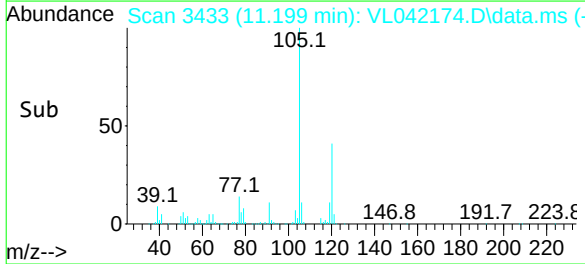
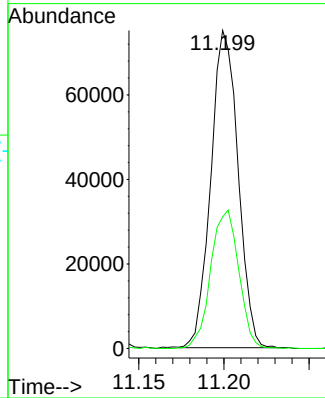
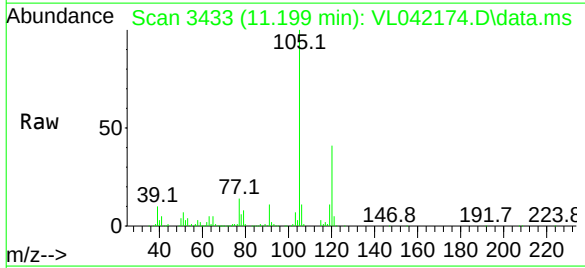
VSTDIC001

Tgt Ion:	105	Resp:	83497
Ion Ratio	Lower	Upper	
105	100		
120	41.3	37.4	56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.099 ppbv

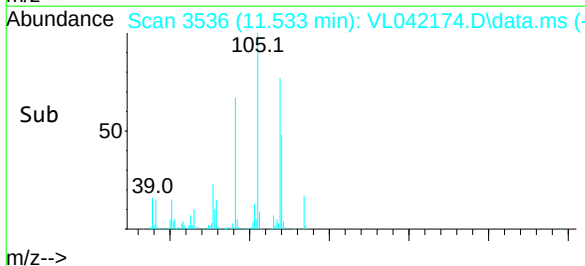
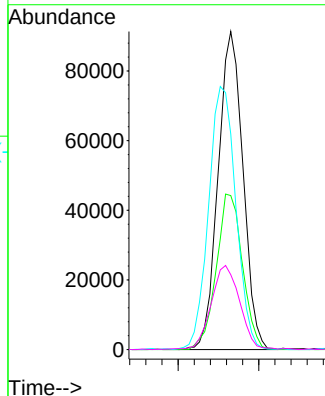
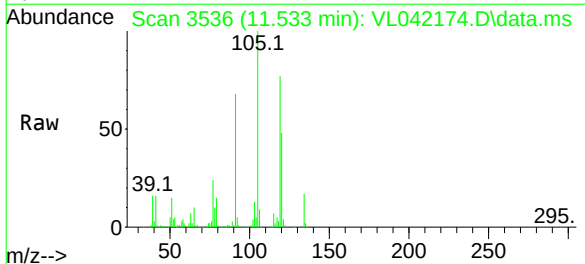
RT: 11.533 min Scan# 3536

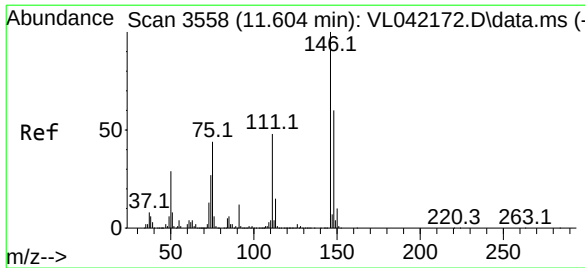
Delta R.T. -0.003 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	105	Resp:	97858
Ion Ratio	Lower	Upper	
105	100		
120	48.4	38.6	58.0
91	67.6	46.2	69.2
77	23.4	18.6	27.8





#75

1,3-Dichlorobenzene

Concen: 1.046 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

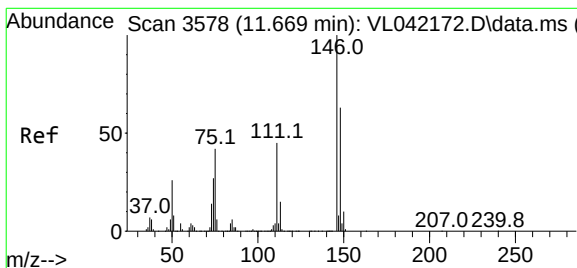
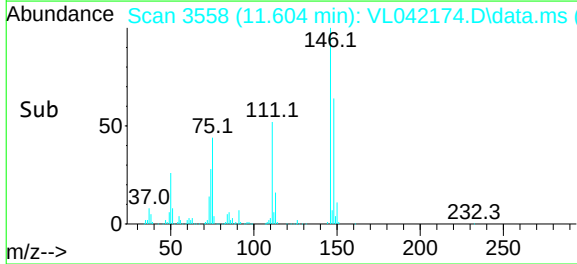
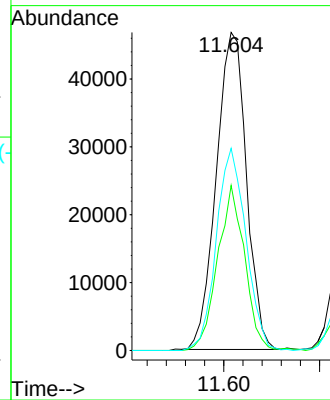
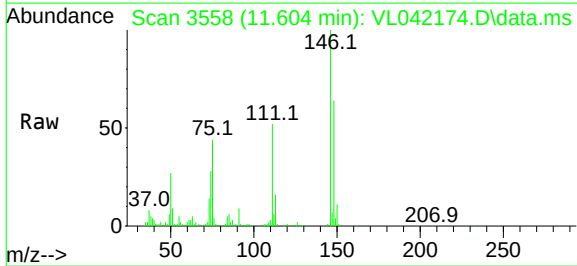
VSTDIC001

Tgt Ion:	146	Resp:	51096
Ion Ratio	Lower	Upper	
146	100		
111	46.8	23.8	71.2
148	62.6	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 1.046 ppbv

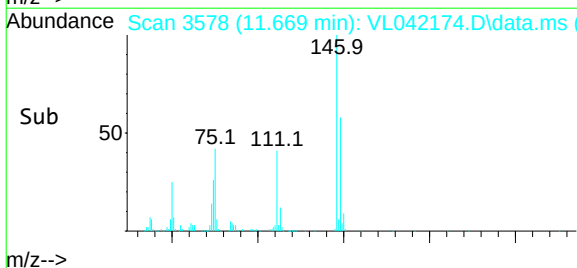
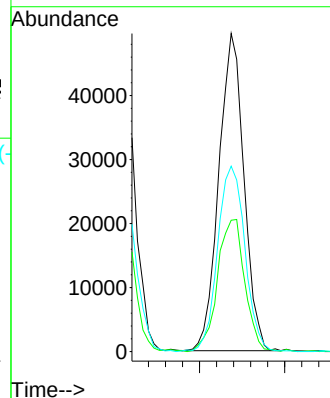
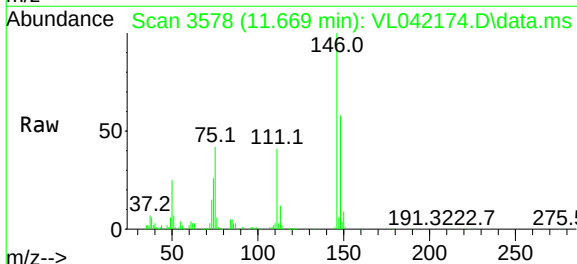
RT: 11.669 min Scan# 3578

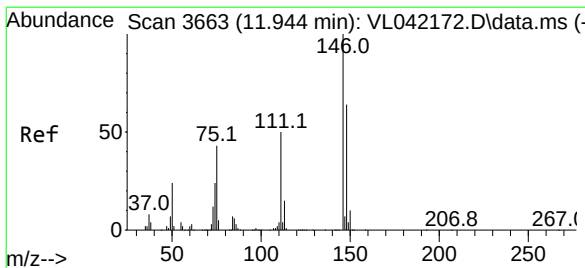
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Tgt Ion:	146	Resp:	50841
Ion Ratio	Lower	Upper	
146	100		
111	45.4	23.0	69.0
148	63.6	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 1.084 ppbv

RT: 11.944 min Scan# 3663

Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

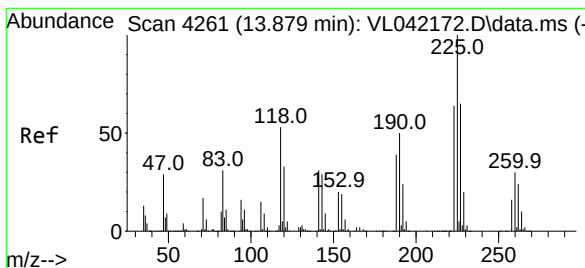
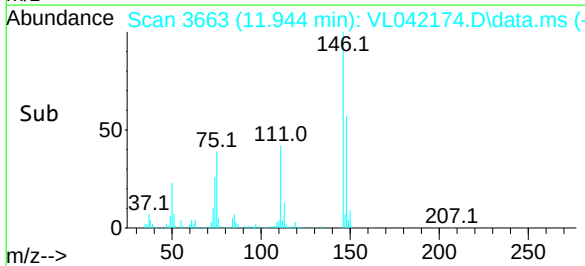
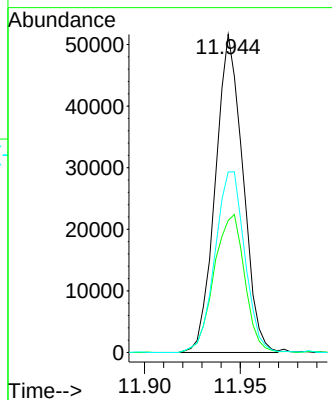
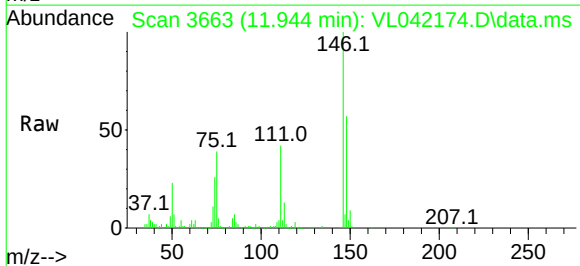
VSTDIC001

Tgt Ion:	146	Resp:	51523
Ion Ratio	Lower	Upper	
146	100		
111	48.6	24.8	74.3
148	61.9	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 1.149 ppbv

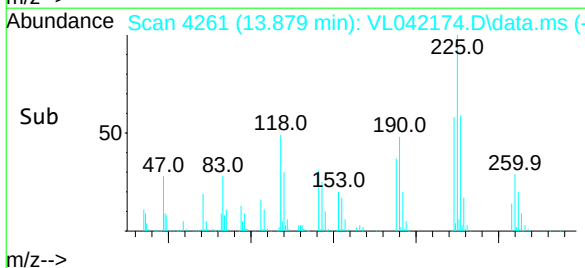
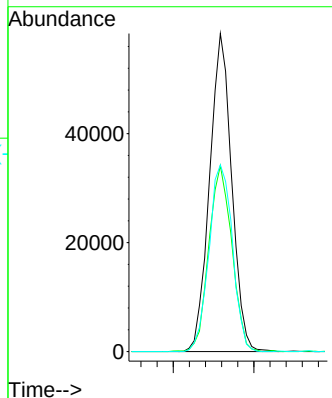
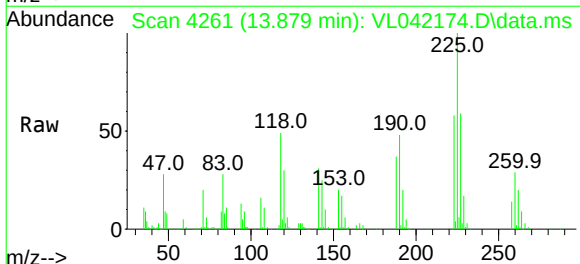
RT: 13.879 min Scan# 4261

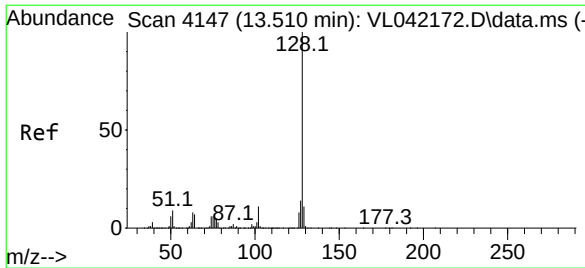
Delta R.T. 0.000 min

Lab File: VL042174.D

Acq: 27 Mar 2025 09:30

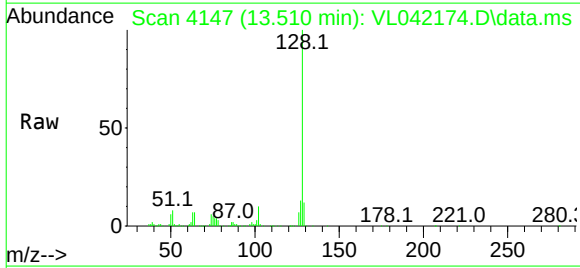
Tgt Ion:	225	Resp:	55611
Ion Ratio	Lower	Upper	
225	100		
223	60.8	50.6	76.0
227	62.3	51.2	76.8





#79
Naphthalene
Concen: 1.120 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30

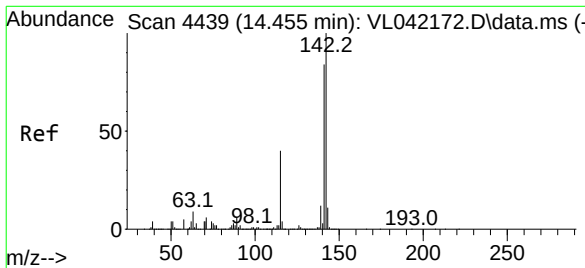
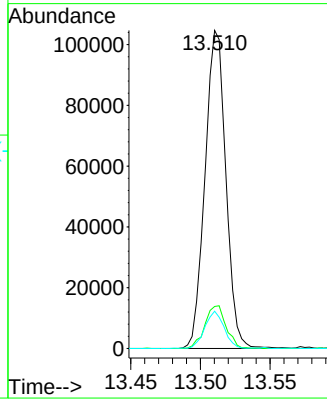
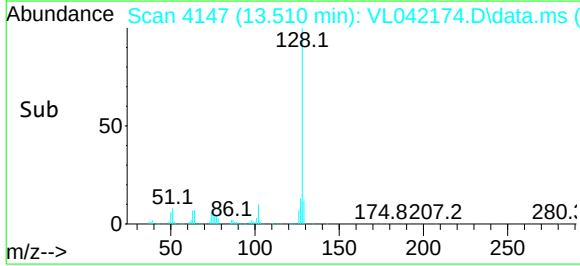
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



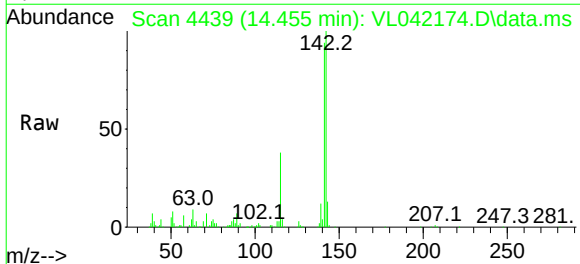
Tgt Ion:128 Resp: 109031
Ion Ratio Lower Upper
128 100
127 13.2 10.8 16.2
129 11.7 9.0 13.4

Manual Integrations
APPROVED

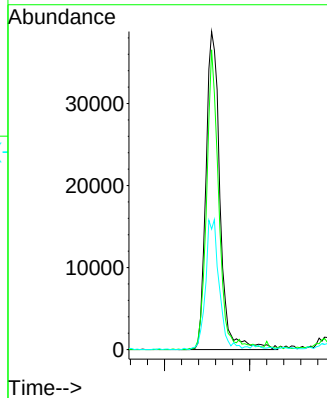
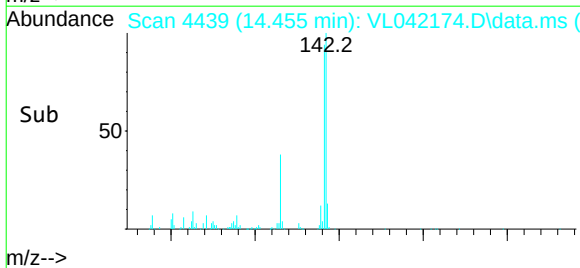
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

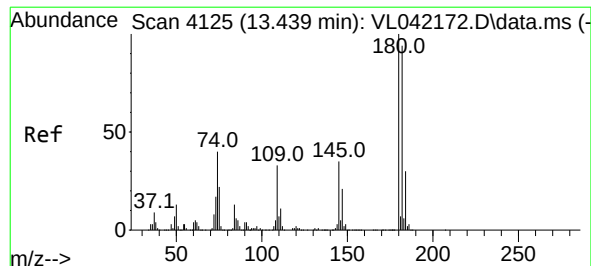


#80
Naphthalene, 2-methyl-
Concen: 0.939 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. 0.000 min
Lab File: VL042174.D
Acq: 27 Mar 2025 09:30



Tgt Ion:142 Resp: 44518
Ion Ratio Lower Upper
142 100
141 83.4 66.3 99.5
115 41.5 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 1.047 ppbv

RT: 13.436 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042174.D

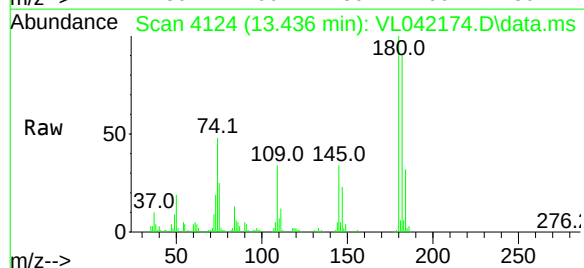
Acq: 27 Mar 2025 09:30

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001



Tgt Ion:180 Resp: 47040

Ion Ratio Lower Upper

180 100

182 95.7 75.1 112.7

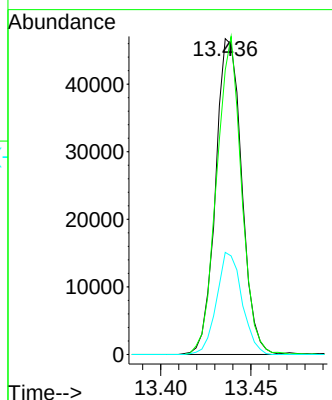
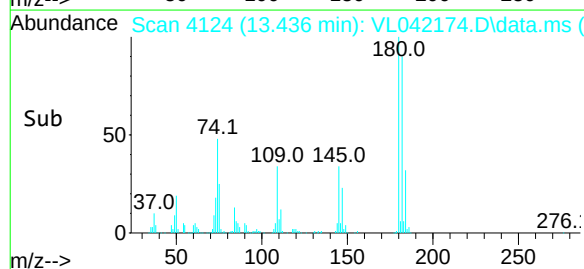
184 31.4 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	180502	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	523832	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	485078	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 403513 10.130 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	14455	0.542	ppbv	95
3) Chlorodifluoromethane	1.473	51	14637	0.538	ppbv #	89
4) Chloromethane	1.531	50	5956	0.547	ppbv	94
5) Vinyl Chloride	1.577	62	5732	0.516	ppbv	92
6) Bromomethane	1.664	94	2949	0.597	ppbv	95
7) Chloroethane	1.703	64	2582	0.591	ppbv #	87
8) Dichlorotetrafluoroethane	1.551	85	11783	0.519	ppbv	98
9) Propene	1.483	41	6622m	0.540	ppbv	
10) Heptane	4.972	43	16673	0.502	ppbv	89
11) Trichlorofluoromethane	1.874	101	14099	0.544	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	11252	0.528	ppbv	99
13) Ethanol	1.722	45	997	1.038	ppbv #	36
14) Bromoethene	1.780	108	4770	0.584	ppbv #	86
15) Acetone	1.835	43	15331	0.607	ppbv #	85
16) 1,3-Butadiene	1.606	39	8594	0.757	ppbv	82
17) tert-Butyl alcohol	2.039	59	17467	0.556	ppbv	97
18) 1,1-Dichloroethene	2.030	96	5634	0.565	ppbv #	92
19) Isopropyl Alcohol	1.884	45	9171	0.644	ppbv #	39
20) Methylene Chloride	2.059	84	5634	0.599	ppbv #	93
21) Allyl Chloride	2.091	41	9632	0.541	ppbv	89
22) trans-1,2-Dichloroethene	2.334	96	6353	0.546	ppbv	83
23) Vinyl Acetate	2.457	43	6809	0.649	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	11258	0.527	ppbv	97
25) Ethyl Acetate	2.836	43	36258	0.553	ppbv	98
26) Hexane	2.823	57	13605	0.538	ppbv	92
27) Carbon Disulfide	2.146	76	14510	0.535	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	8310	0.527	ppbv #	89
29) Chloroform	2.845	83	20149	0.544	ppbv	98
30) Cyclohexane	3.852	84	12063m	0.549	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	13601	0.529	ppbv	92
32) 1,1,1-Trichloroethane	3.360	97	20567	0.485	ppbv	100
34) 2-Butanone	2.557	43	19739	0.520	ppbv	96
35) Carbon Tetrachloride	3.755	117	18558	0.460	ppbv	93
36) Benzene	3.651	78	27488	0.529	ppbv #	87
37) 1,2-Dichloroethane	3.214	62	16062	0.540	ppbv	100
38) Trichloroethene	4.538	130	11460m	0.529	ppbv	
39) 1,2-Dichloropropane	4.308	63	10123	0.535	ppbv	92
40) 1,4-Dioxane	4.593	88	6121m	0.624	ppbv	
41) Tetrahydrofuran	3.059	42	11509m	0.533	ppbv	
42) Bromodichloromethane	4.483	83	20374	0.497	ppbv #	98
43) Methyl Methacrylate	4.875	69	11583m	0.528	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	46646	0.532	ppbv	95
45) t-1,3-Dichloropropene	6.406	75	12404	0.526	ppbv #	79

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 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

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	14374m	0.497	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	10972m	0.549	ppbv	
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv	99
49) Bromoform	9.480	173	14828	0.487	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	ppbv	97
51) 2-Hexanone	7.438	43	26154	0.523	ppbv #	100
52) Tetrachloroethene	8.218	164	10502	0.510	ppbv	94
53) Toluene	6.923	91	32444	0.527	ppbv	98
54) 1,2-Dibromoethane	7.648	107	14220	0.510	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	13959	0.523	ppbv #	1
57) Chlorobenzene	8.914	112	24826	0.540	ppbv #	91
58) Ethyl Benzene	9.348	91	44862	0.521	ppbv	96
59) m/p-Xylene	9.542	91	73028m	1.060	ppbv	
60) o-Xylene	9.959	91	36879	0.535	ppbv	98
61) Styrene	9.866	104	17198	0.504	ppbv	96
62) Isopropylbenzene	10.536	105	55531	0.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	21989	0.525	ppbv	96
64) n-propylbenzene	10.985	120	14030	0.528	ppbv	95
65) tert-Butylbenzene	11.526	119	53115	0.557	ppbv	100
66) Benzyl Chloride	11.613	91	5263	0.520	ppbv	97
67) sec-Butylbenzene	11.762	105	72879	0.550	ppbv	98
69) p-Isopropyltoluene	11.921	119	61933	0.542	ppbv	100
70) n-Butylbenzene	12.277	91	61507	0.527	ppbv	99
71) 2-Chlorotoluene	10.895	91	41637	0.520	ppbv	95
72) 4-Ethyltoluene	11.121	105	44473	0.518	ppbv #	94
73) 1,3,5-Trimethylbenzene	11.199	105	39190	0.523	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	48370	0.560	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	25122	0.530	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	24991	0.530	ppbv	97
77) 1,2-Dichlorobenzene	11.943	146	24548	0.532	ppbv	96
78) Hexachloro-1,3-Butadiene	13.879	225	25636	0.546	ppbv	99
79) Naphthalene	13.510	128	47990	0.508	ppbv	95
80) Naphthalene,2-methyl-	14.458	142	17486	0.380	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	19924	0.457	ppbv	97

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

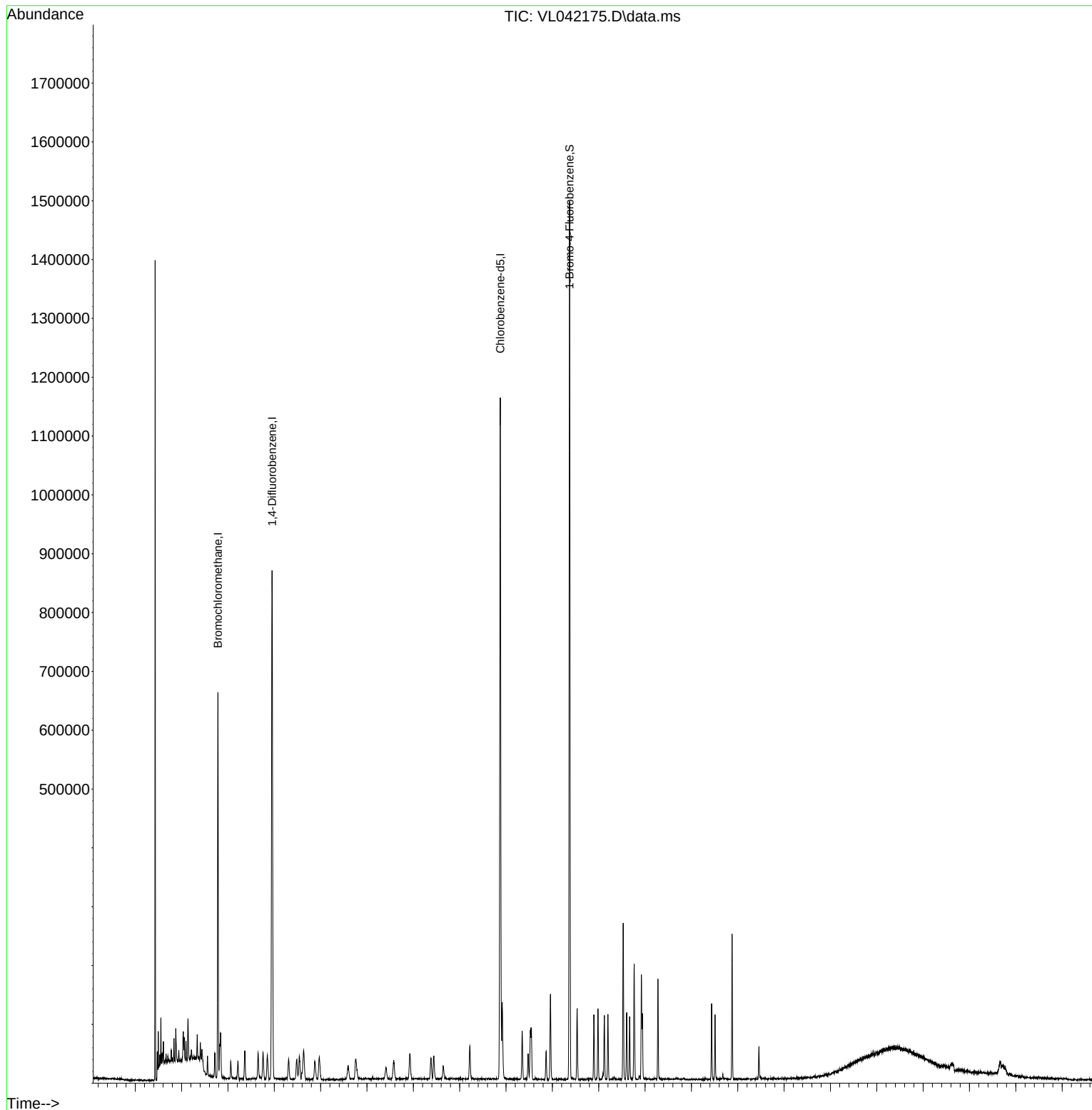
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Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

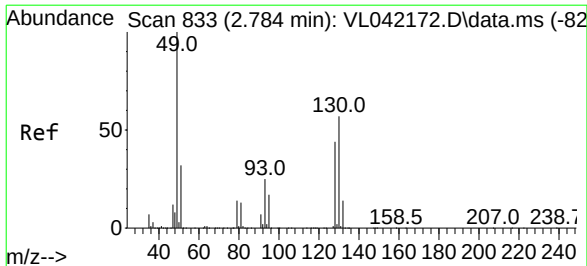
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

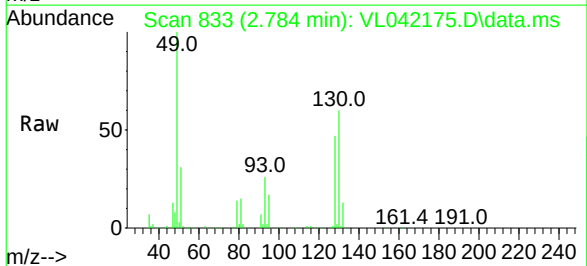
Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

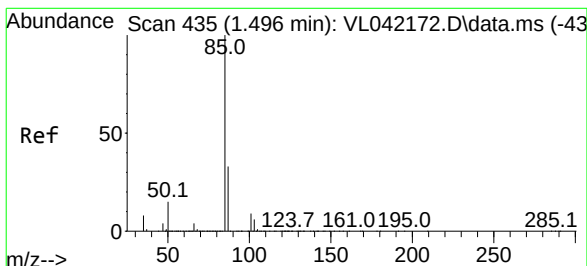
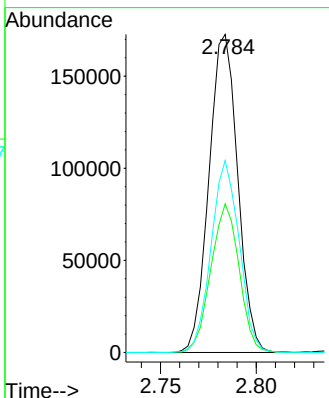
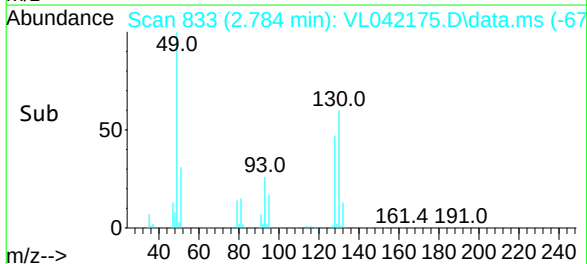
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



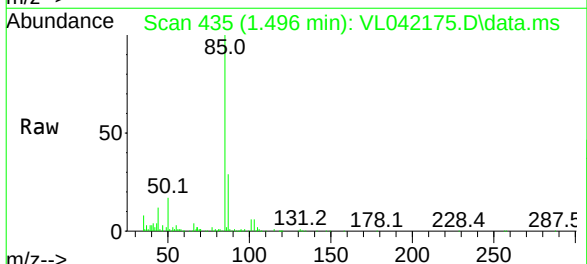
Tgt Ion: 49 Resp: 180502
Ion Ratio Lower Upper
49 100
128 46.1 22.9 68.5
130 59.2 28.8 86.4

Manual Integrations
APPROVED

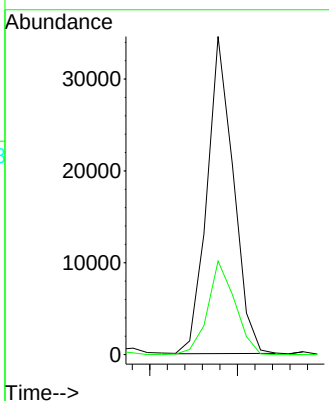
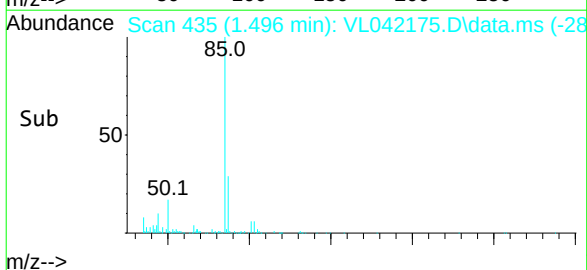
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

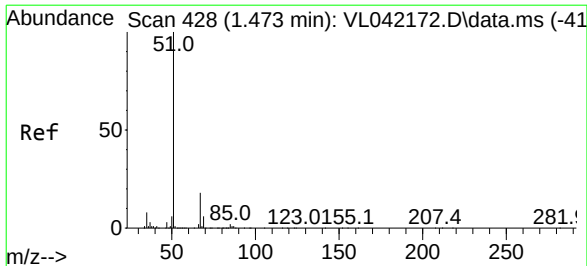


#2
Dichlorodifluoromethane
Concen: 0.542 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



Tgt Ion: 85 Resp: 14455
Ion Ratio Lower Upper
85 100
87 29.5 26.1 39.1





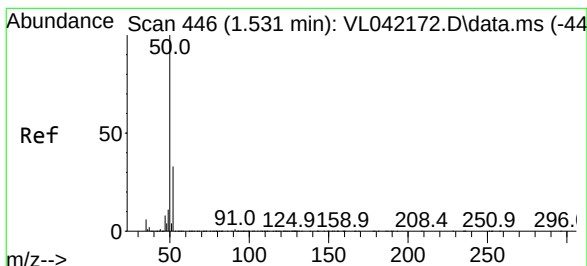
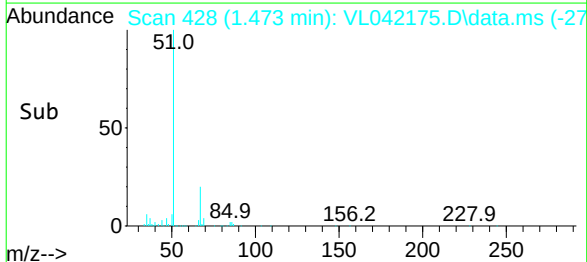
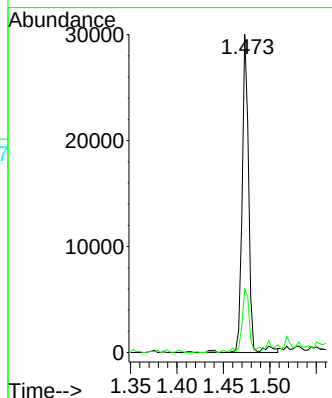
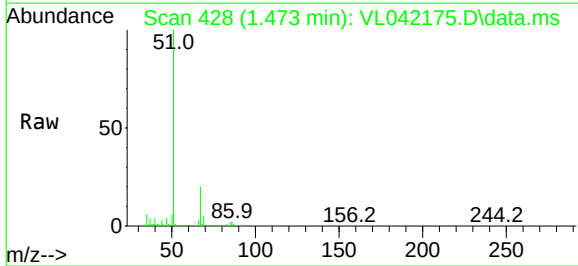
#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 51 Resp: 14637
Ion Ratio Lower Upper
51 100
67 23.6 15.0 22.6#

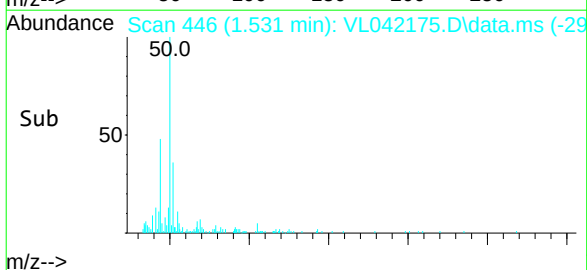
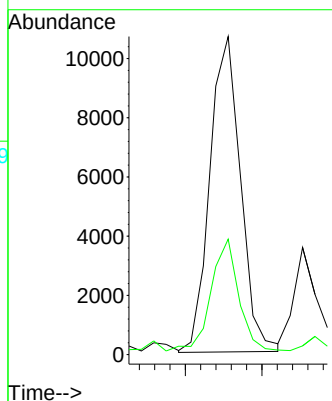
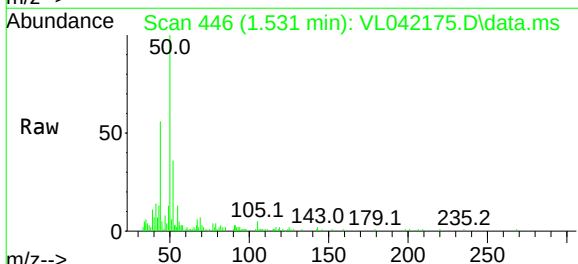
Manual Integrations
APPROVED

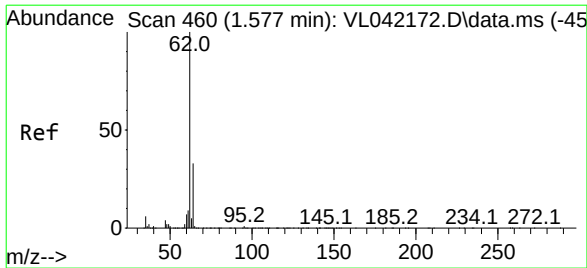
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 0.547 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 50 Resp: 5956
Ion Ratio Lower Upper
50 100
52 36.1 26.1 39.1





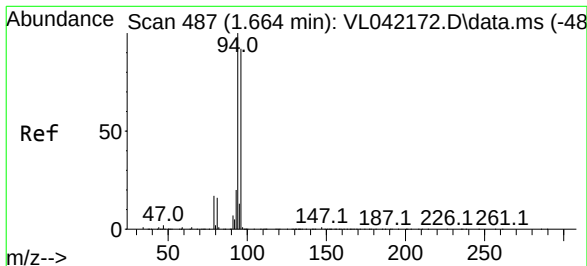
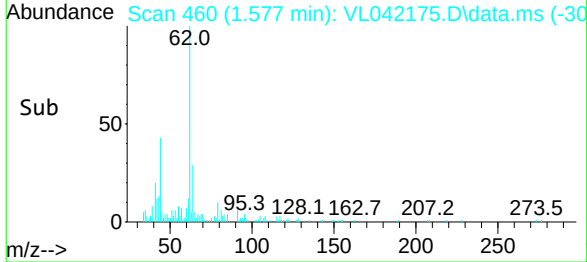
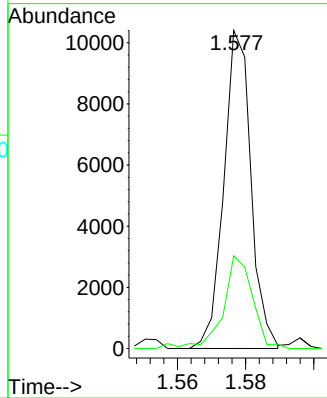
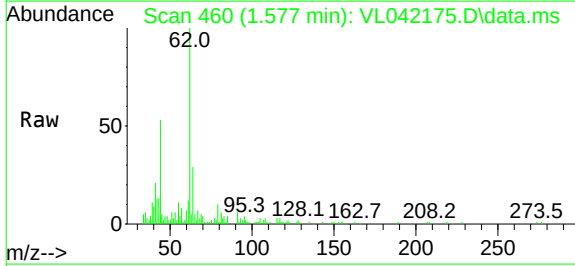
#5
 Vinyl Chloride
 Concen: 0.516 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 62 Resp: 5732
 Ion Ratio Lower Upper
 62 100
 64 28.5 26.6 40.0

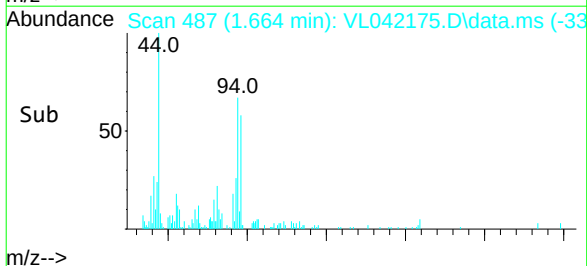
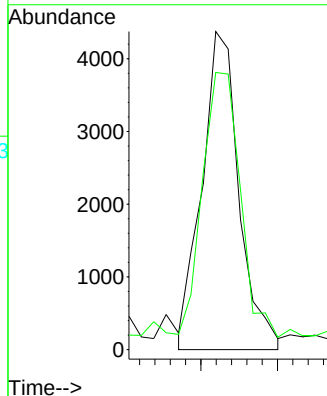
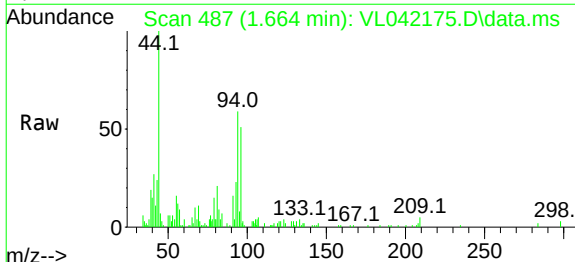
Manual Integrations
 APPROVED

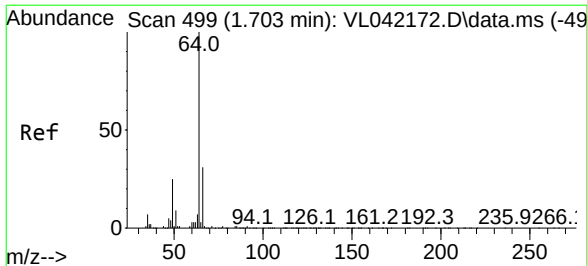
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 0.597 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 94 Resp: 2949
 Ion Ratio Lower Upper
 94 100
 96 86.2 73.1 109.7





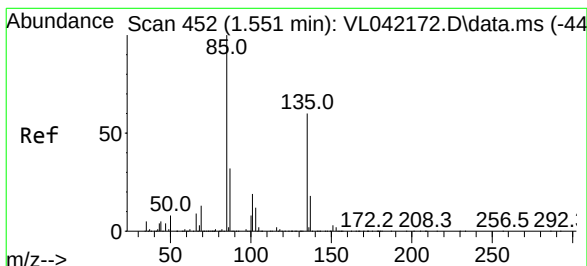
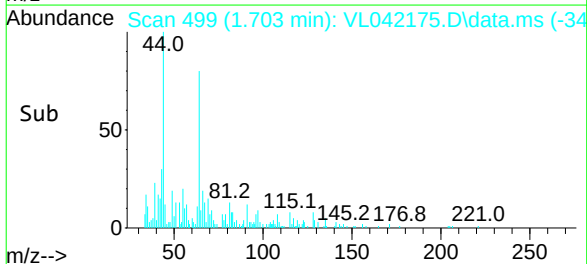
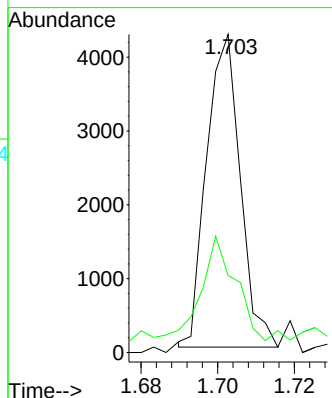
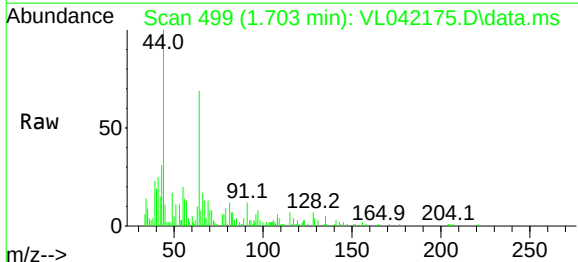
#7
Chloroethane
Concen: 0.591 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument : MSVOA_L
ClientSampleId : VSTDIC0.5

Tgt Ion: 64 Resp: 2582
Ion Ratio Lower Upper
64 100
66 24.2 25.2 37.8#

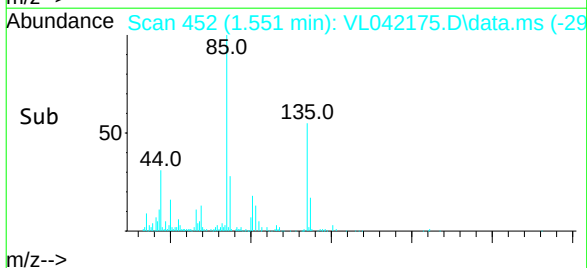
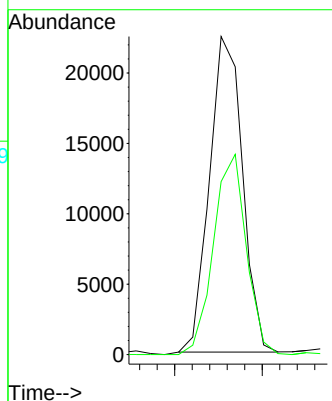
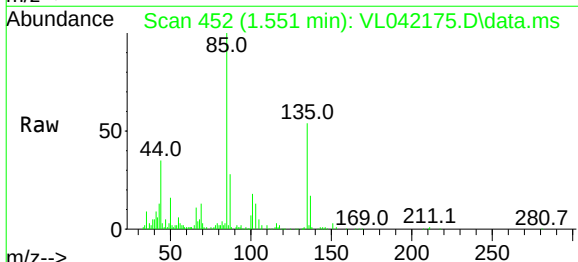
Manual Integrations
APPROVED

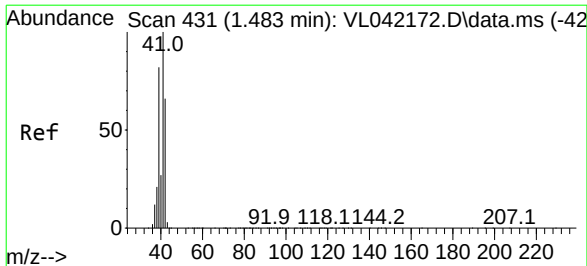
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 0.519 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

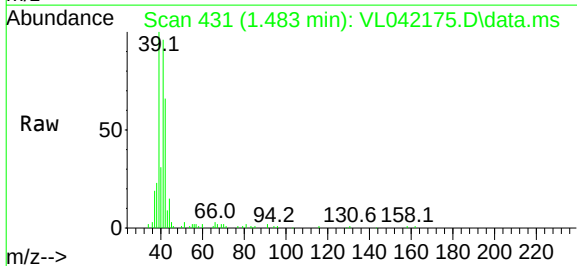
Tgt Ion: 85 Resp: 11783
Ion Ratio Lower Upper
85 100
135 63.7 52.4 78.6





#9
Propene
Concen: 0.540 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

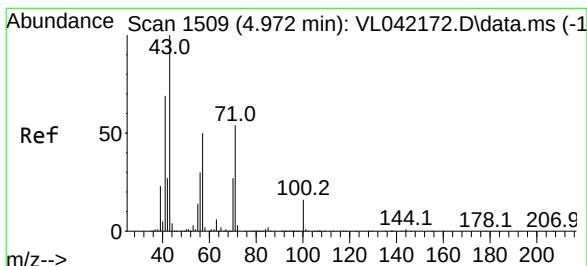
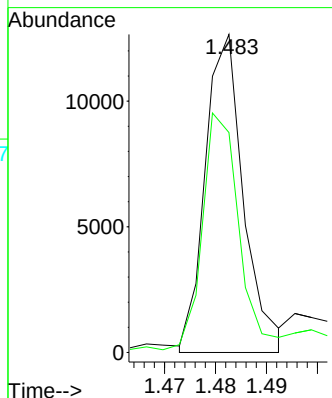
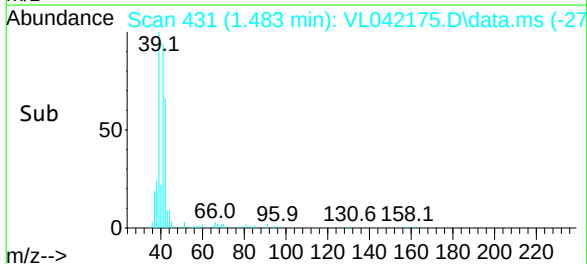
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 41 Resp: 6622
Ion Ratio Lower Upper
41 100
42 19.5 55.4 83.2#

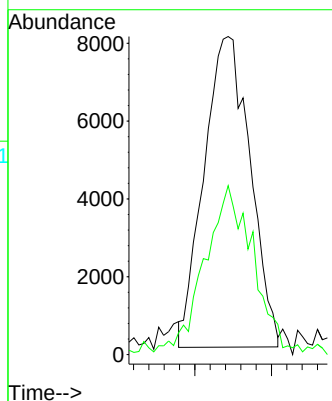
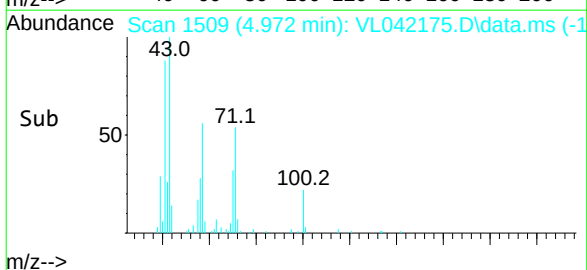
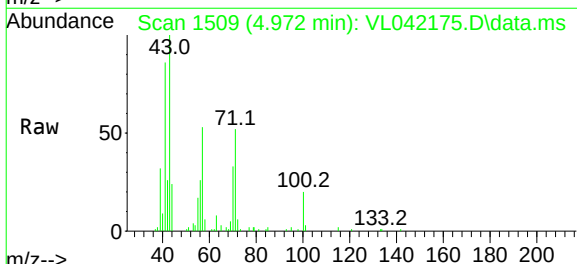
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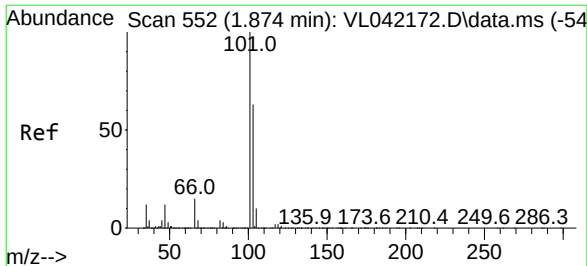
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#10
Heptane
Concen: 0.502 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 43 Resp: 16673
Ion Ratio Lower Upper
43 100
57 57.0 39.4 59.2





#11

Trichlorofluoromethane

Concen: 0.544 ppbv

RT: 1.874 min Scan# 55

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:101 Resp: 14099

Ion Ratio Lower Upper

101 100

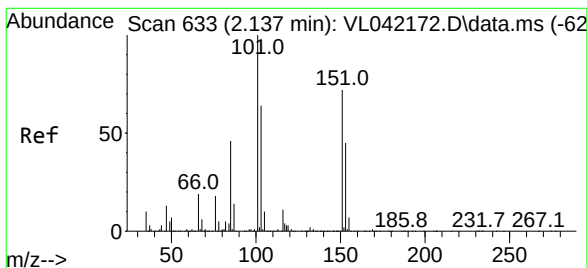
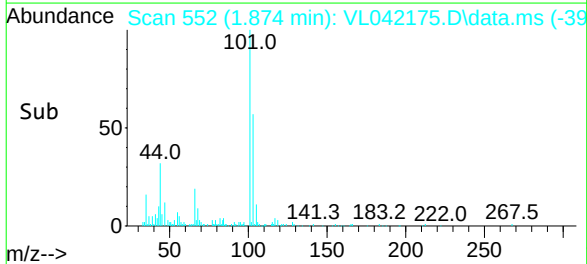
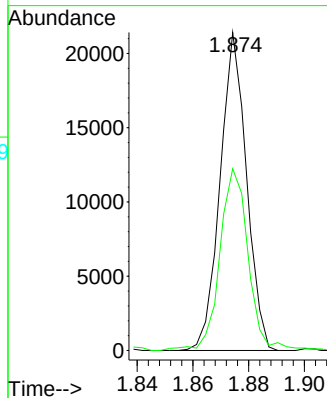
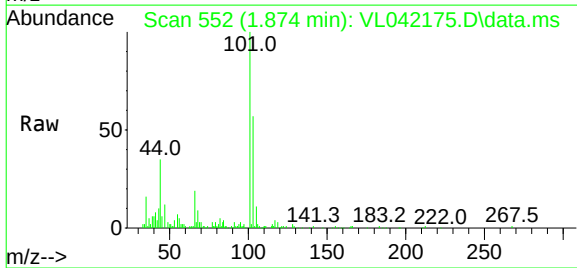
103 56.3 50.2 75.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.528 ppbv

RT: 2.136 min Scan# 633

Delta R.T. -0.000 min

Lab File: VL042175.D

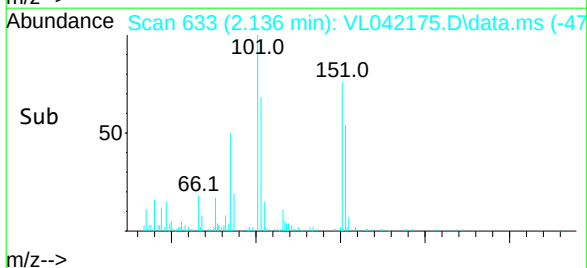
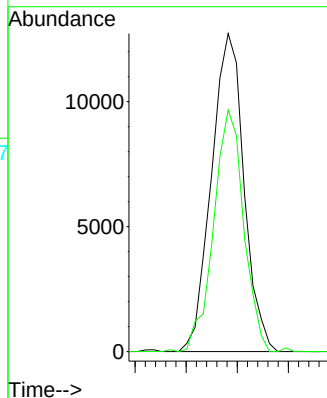
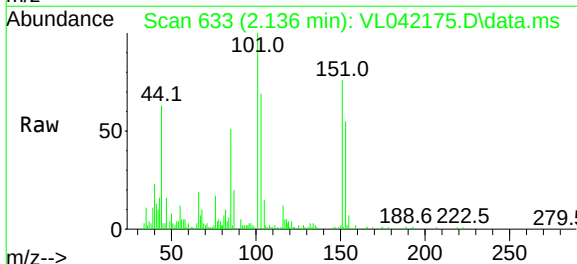
Acq: 27 Mar 2025 10:01

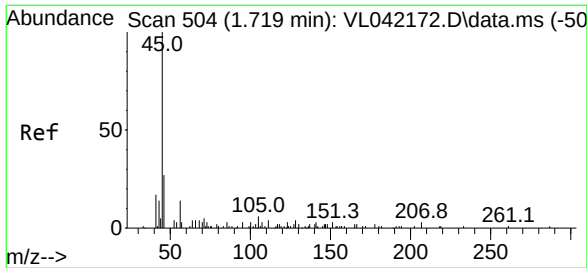
Tgt Ion:101 Resp: 11252

Ion Ratio Lower Upper

101 100

151 70.6 57.1 85.7





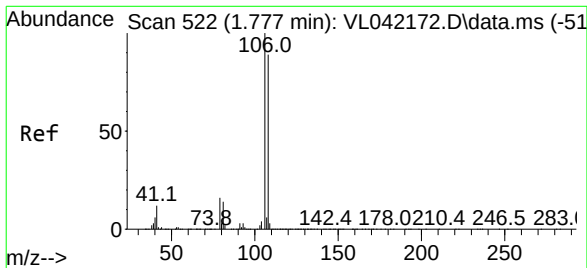
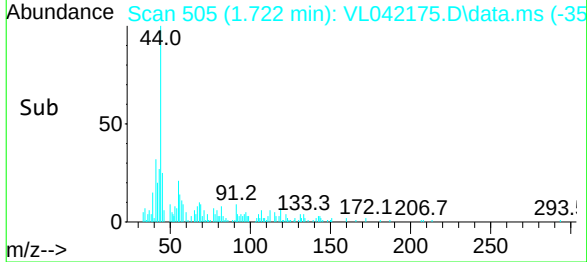
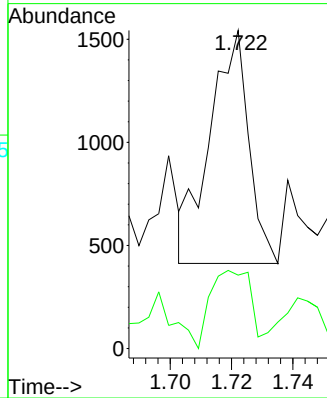
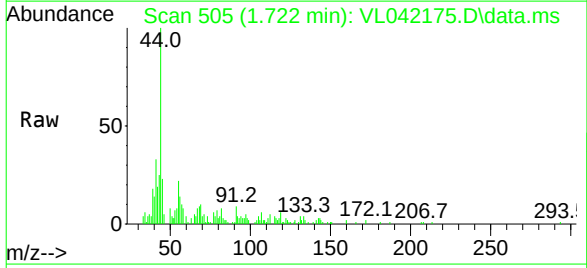
#13
Ethanol
Concen: 1.038 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 997
Ion Ratio Lower Upper
45 100
46 94.5 20.2 80.8#

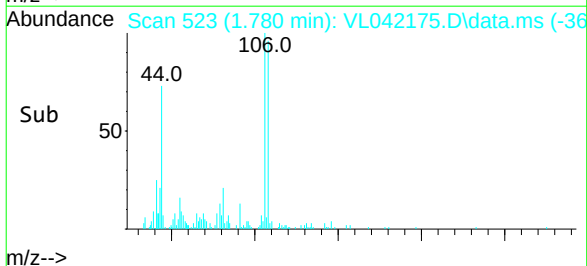
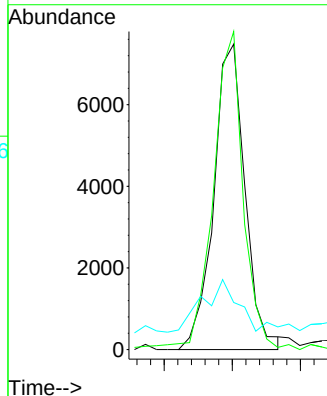
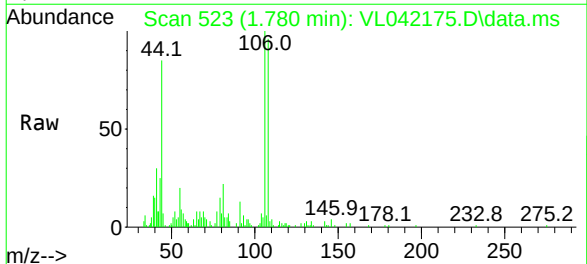
Manual Integrations
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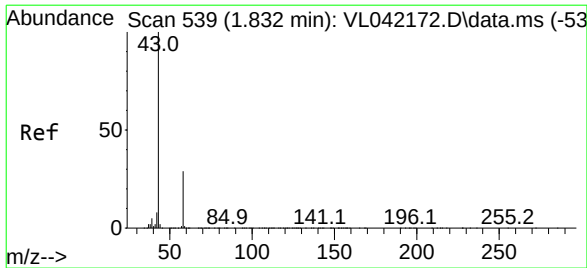
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 0.584 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:108 Resp: 4770
Ion Ratio Lower Upper
108 100
106 101.3 86.8 130.2
79 42.6 15.0 22.6#





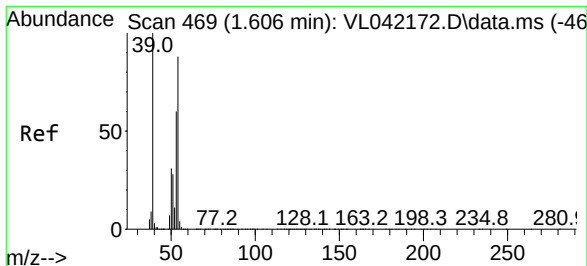
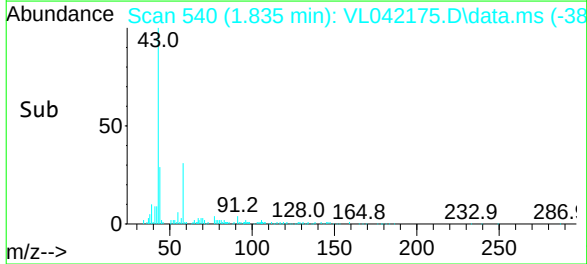
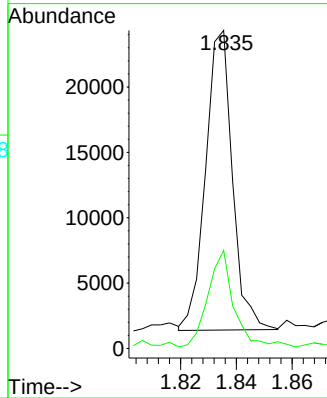
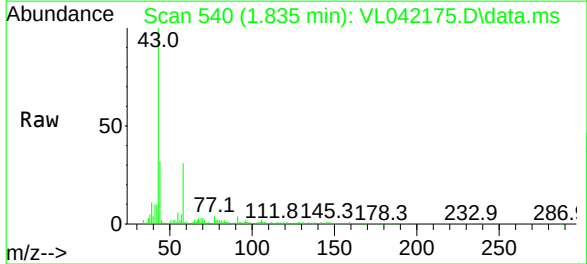
#15
Acetone
Concen: 0.607 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43 Resp: 15331
Ion Ratio Lower Upper
43 100
58 37.1 23.2 34.8#

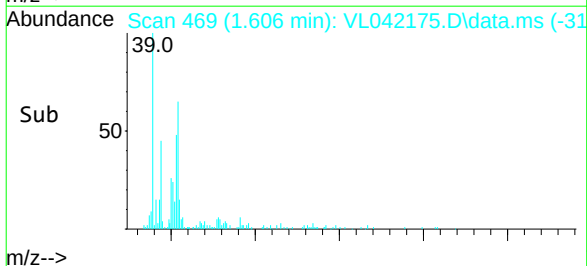
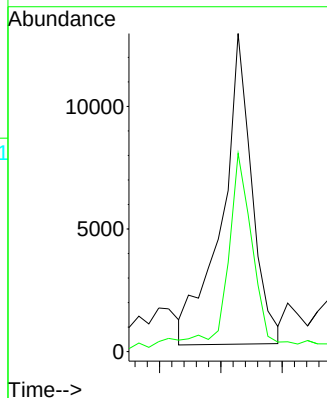
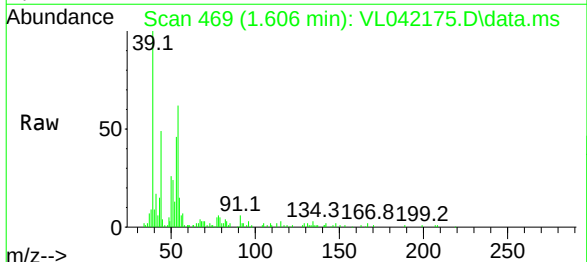
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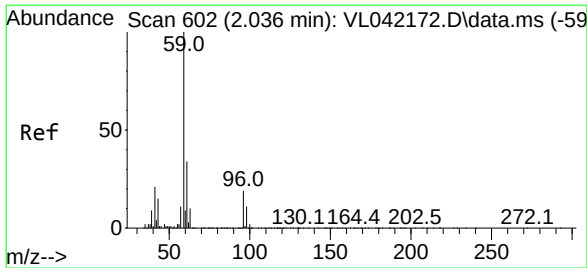
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 0.757 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 39 Resp: 8594
Ion Ratio Lower Upper
39 100
54 60.7 60.7 91.1





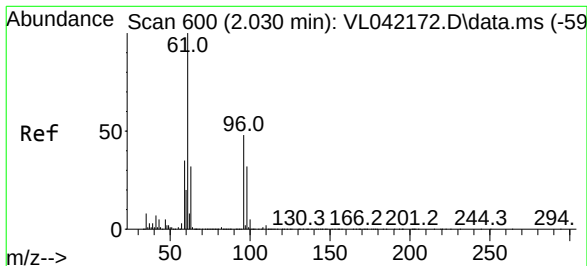
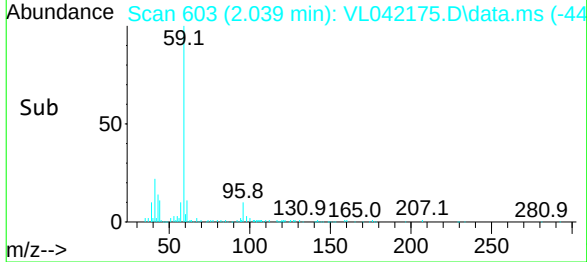
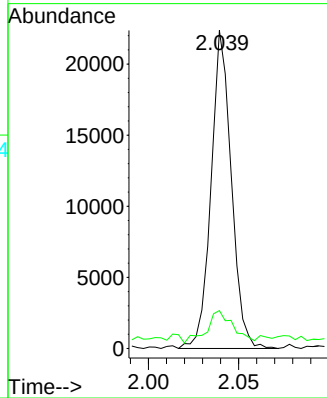
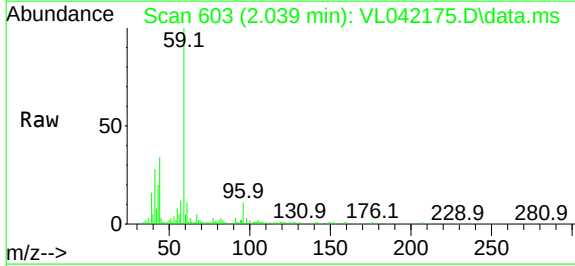
#17
tert-Butyl alcohol
Concen: 0.556 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 59 Resp: 17467
Ion Ratio Lower Upper
59 100
57 12.1 8.9 13.3

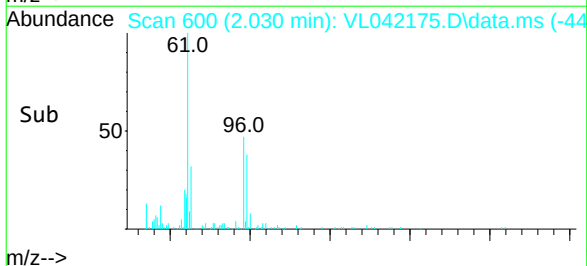
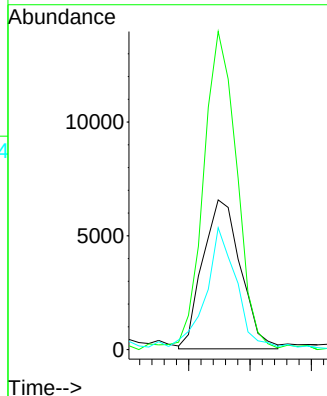
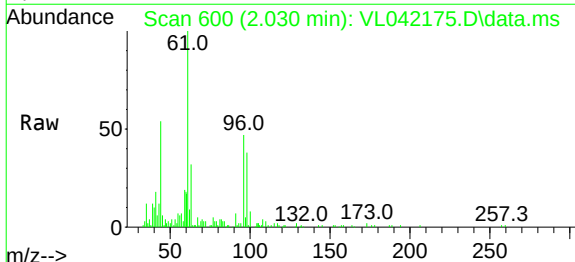
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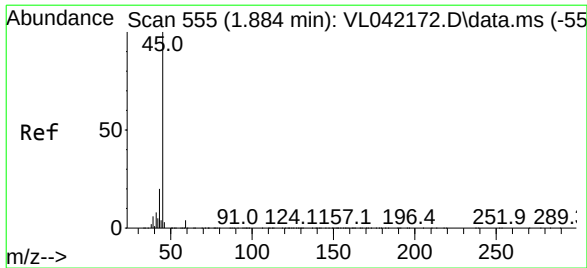
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 0.565 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 96 Resp: 5634
Ion Ratio Lower Upper
96 100
61 216.6 167.6 251.4
98 81.2 53.5 80.3#





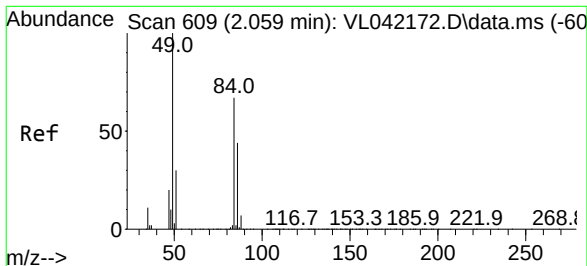
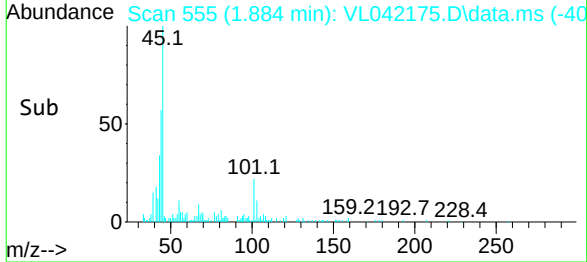
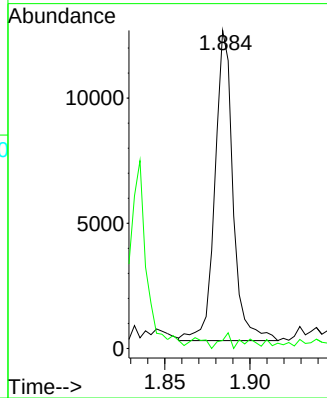
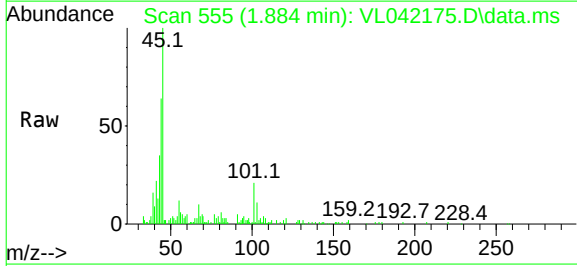
#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 45 Resp: 9171
Ion Ratio Lower Upper
45 100
58 5.5 36.9 55.3#

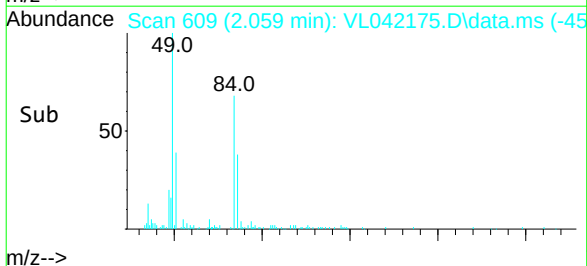
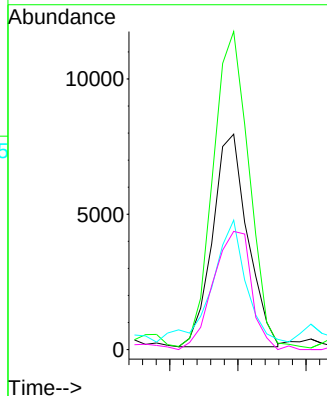
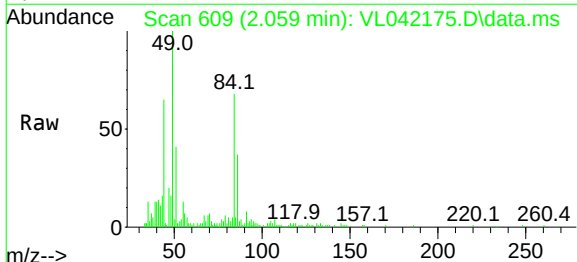
Manual Integrations
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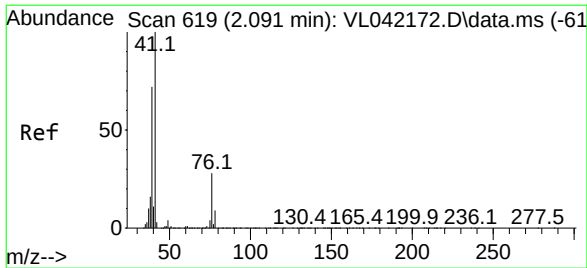
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 0.599 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

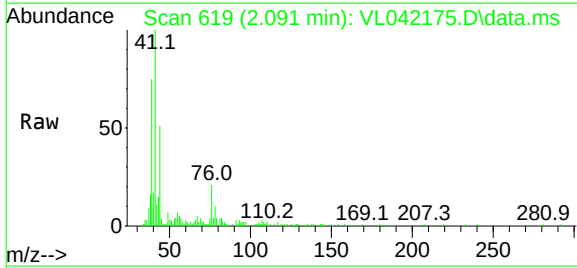
Tgt Ion: 84 Resp: 5634
Ion Ratio Lower Upper
84 100
49 148.1 120.2 180.4
51 56.1 37.4 56.0#
86 55.6 52.4 78.6





#21
 Allyl Chloride
 Concen: 0.541 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

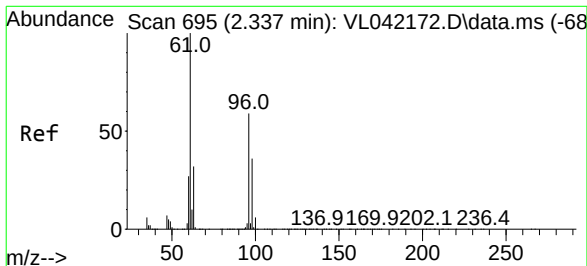
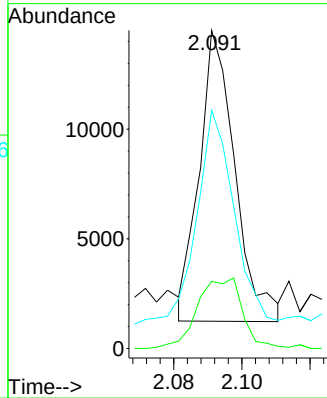
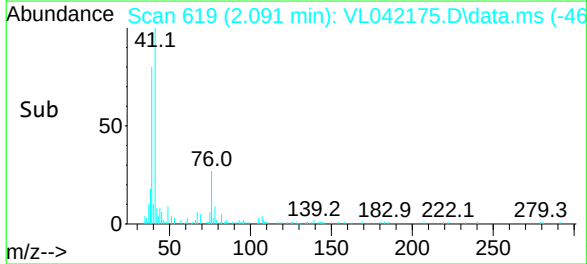
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



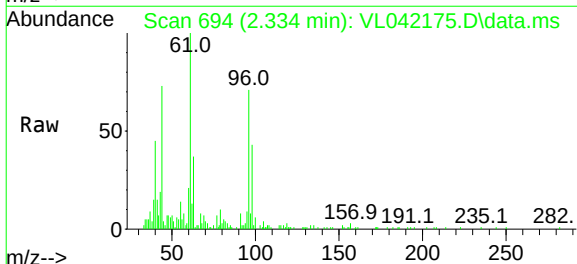
Tgt Ion:	41	Resp:	9632
Ion	Ratio	Lower	Upper
41	100		
76	30.9	24.1	36.1
39	88.9	61.1	91.7

Manual Integrations
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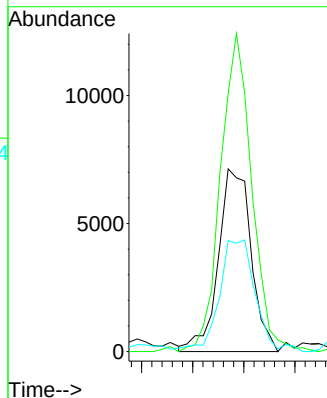
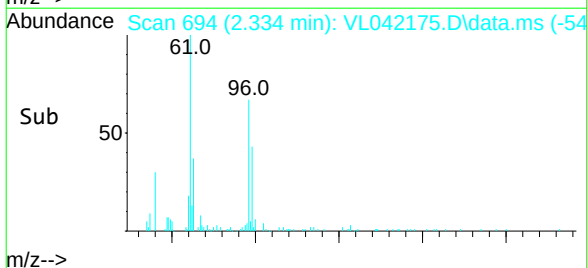
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

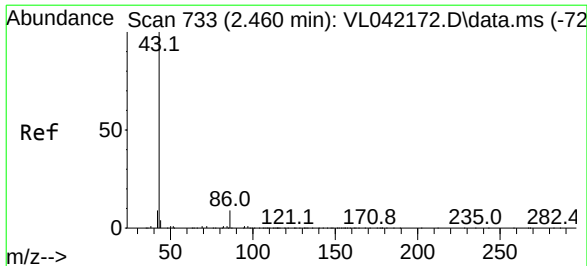


#22
 trans-1,2-Dichloroethene
 Concen: 0.546 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01



Tgt Ion:	96	Resp:	6353
Ion	Ratio	Lower	Upper
96	100		
61	141.3	136.6	204.8
98	59.4	49.4	74.2





#23

Vinyl Acetate

Concen: 0.649 ppbv

RT: 2.457 min Scan# 733

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

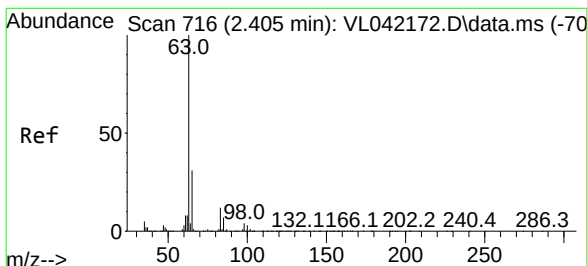
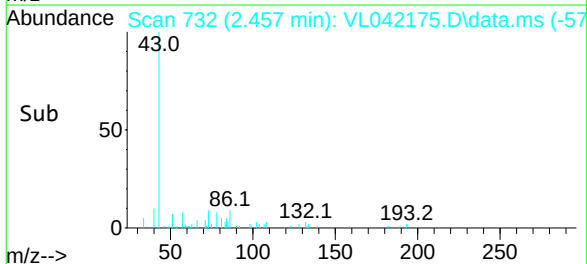
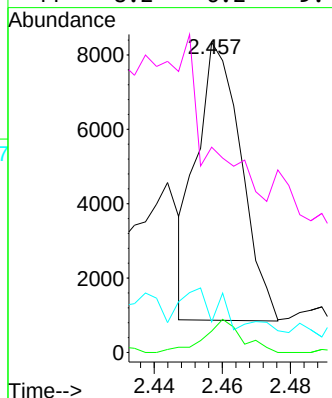
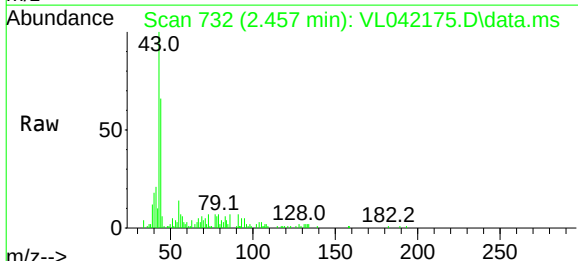
ClientSampleId :

VSTDICC0.5

Tgt Ion: 43	Resp: 6809
Ion Ratio	Lower Upper
43 100	
86 7.7	5.5 8.3
42 3.2	8.6 13.0
44 8.2	6.2 9.4

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#24

1,1-Dichloroethane

Concen: 0.527 ppbv

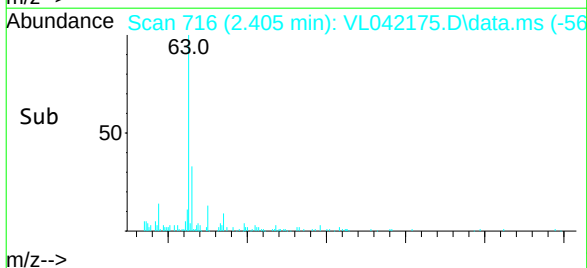
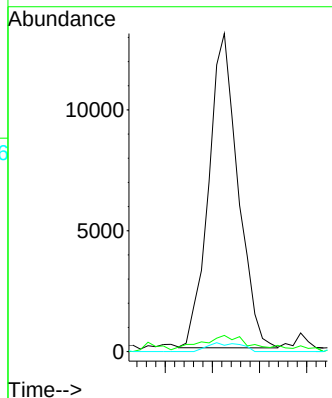
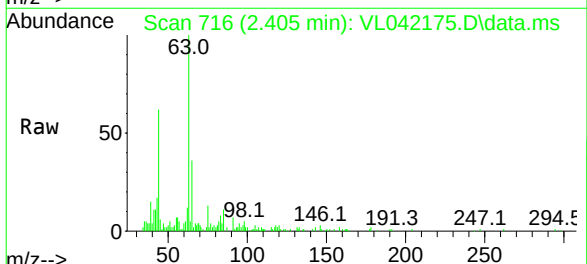
RT: 2.405 min Scan# 716

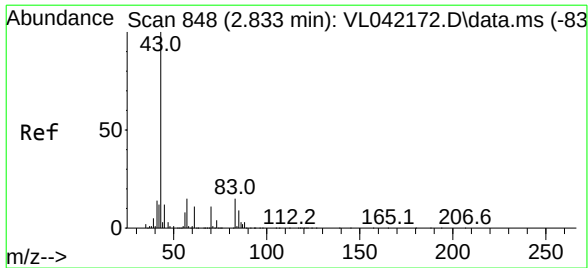
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

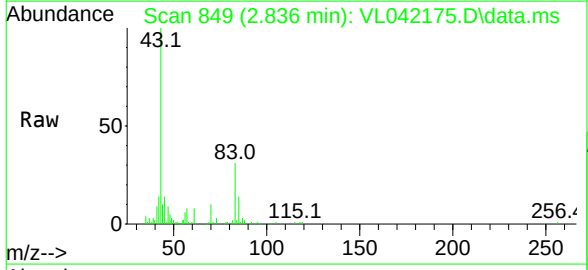
Tgt Ion: 63	Resp: 11258
Ion Ratio	Lower Upper
63 100	
98 3.7	2.3 6.8
100 2.0	1.6 4.7





#25
Ethyl Acetate
Concen: 0.553 ppbv
RT: 2.836 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

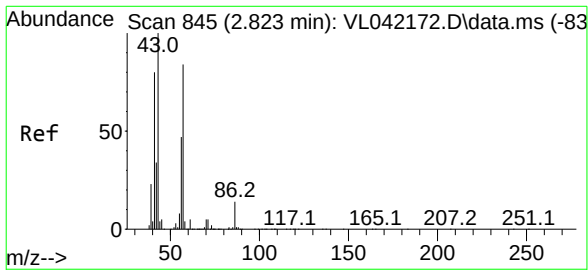
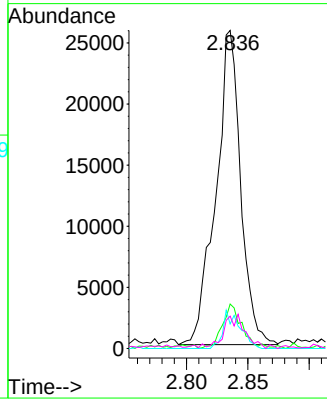
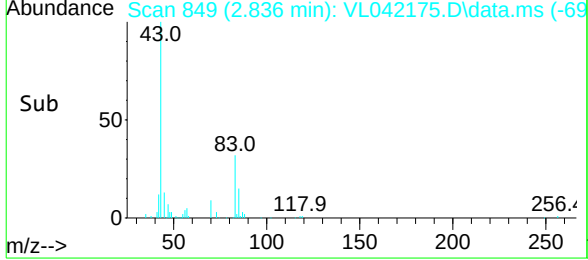
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



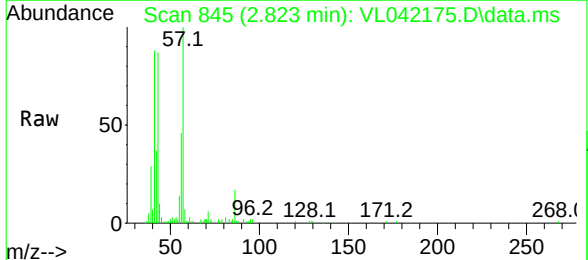
Tgt Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.2	12.2
61	8.3	7.3	10.9
70	9.9	7.2	10.8

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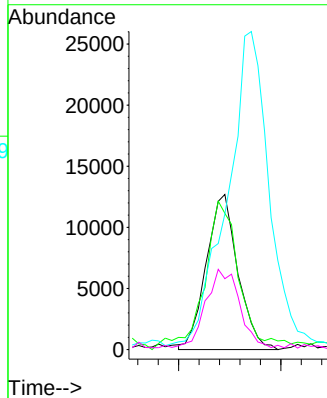
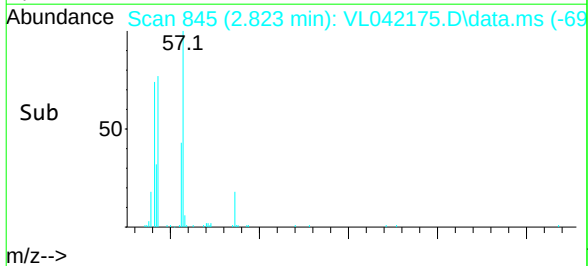
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

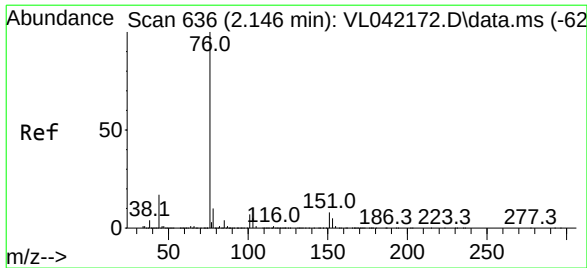


#26
Hexane
Concen: 0.538 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



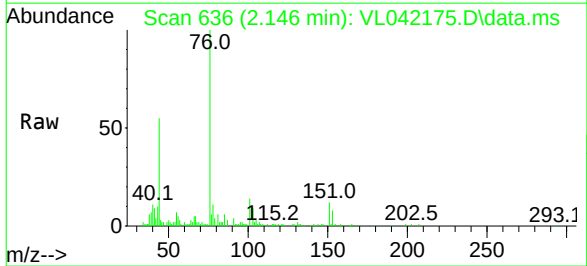
Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.1	76.6	114.8
43	273.4	207.8	311.8
56	64.6	43.6	65.4





#27
Carbon Disulfide
Concen: 0.535 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

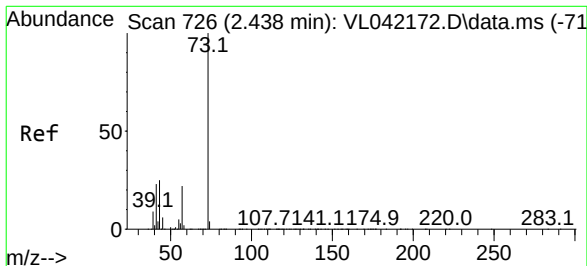
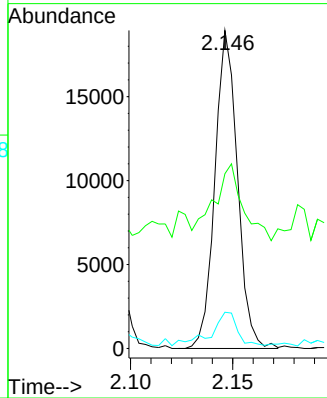
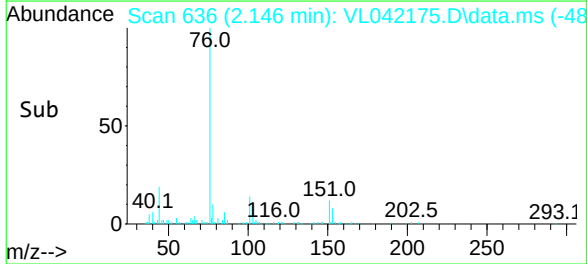
Instrument : MSVOA_1
ClientSampleId : VSTDIC0.5



Tgt Ion: 76 Resp: 14510
Ion Ratio Lower Upper
76 100
44 115.5 14.7 22.1#
78 14.9 9.3 13.9#

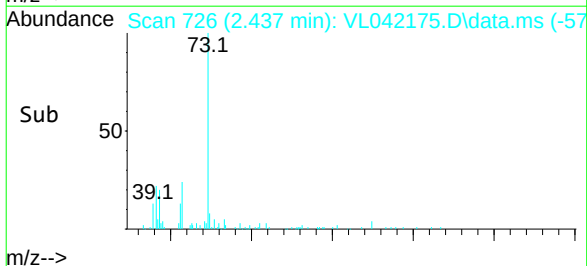
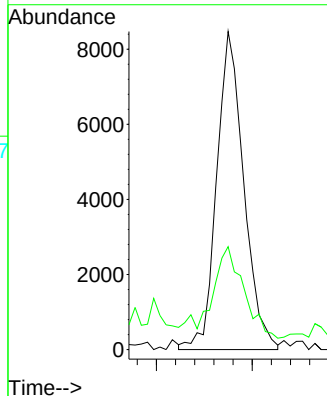
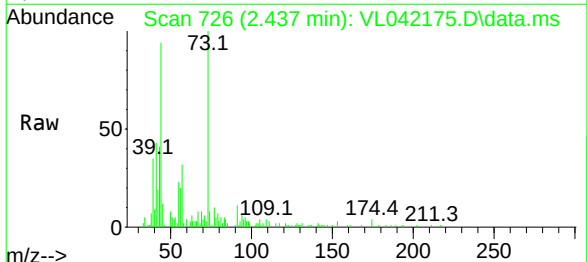
Manual Integrations
APPROVED

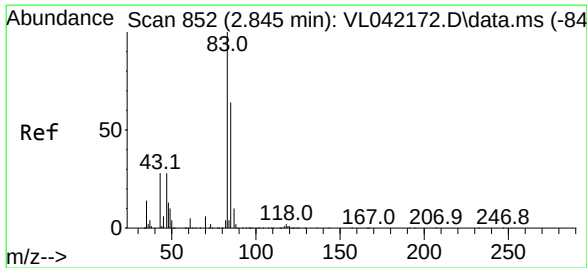
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 0.527 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 73 Resp: 8310
Ion Ratio Lower Upper
73 100
57 31.1 20.5 30.7#





#29

Chloroform

Concen: 0.544 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 20149

Ion Ratio Lower Upper

83 100

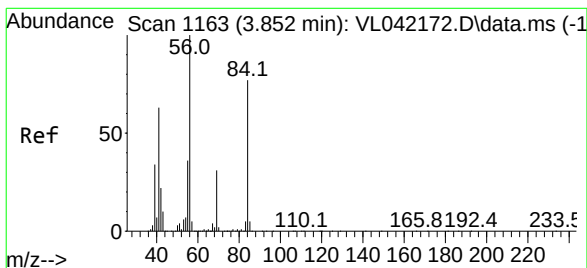
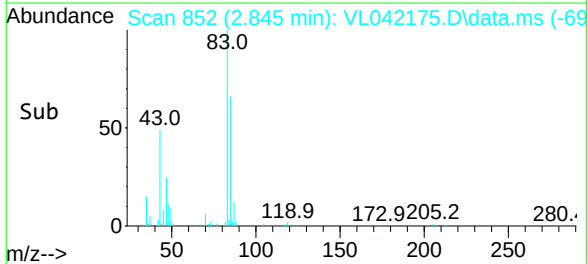
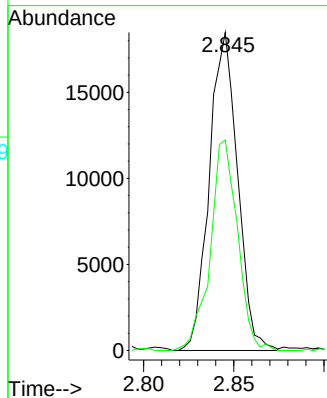
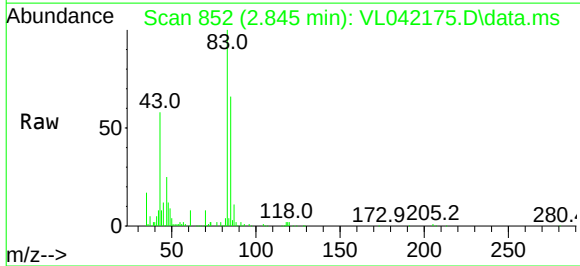
85 66.2 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#30

Cyclohexane

Concen: 0.549 ppbv m

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

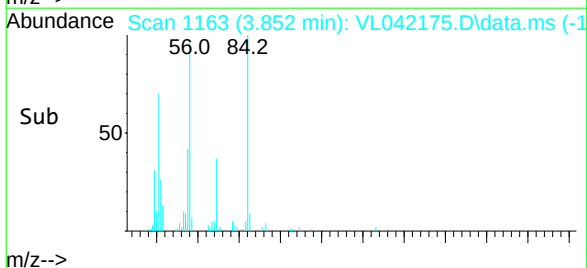
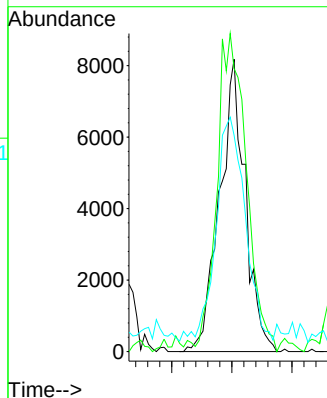
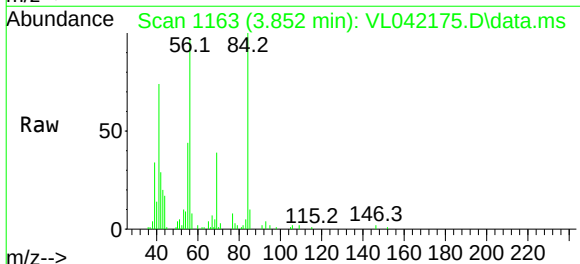
Tgt Ion: 84 Resp: 12063

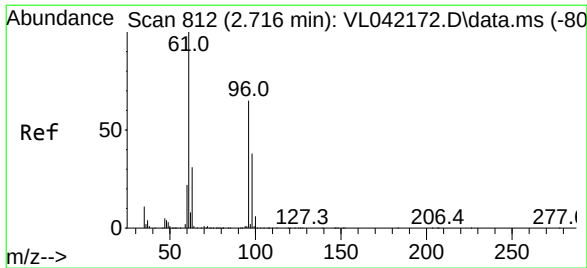
Ion Ratio Lower Upper

84 100

56 126.3 102.8 154.2

41 93.5 66.5 99.7





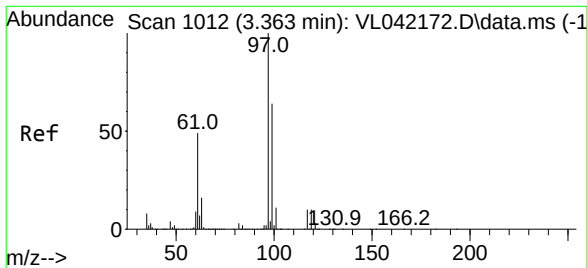
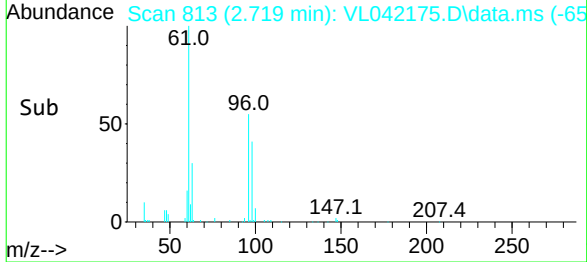
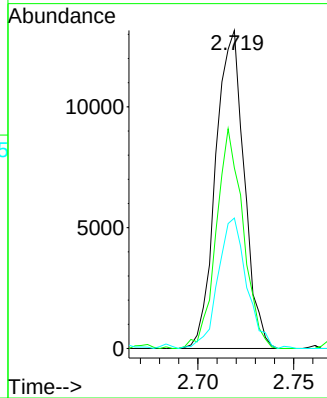
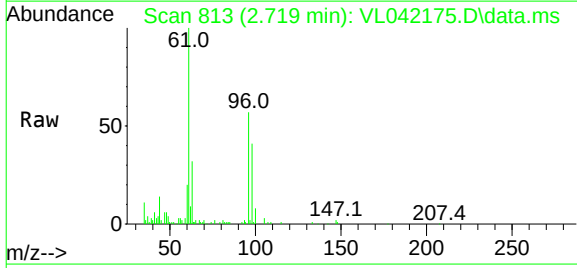
#31
 cis-1,2-Dichloroethene
 Concen: 0.529 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:	61	Resp:	13601
Ion	Ratio	Lower	Upper
61	100		
96	56.8	51.8	77.8
98	41.0	30.6	46.0

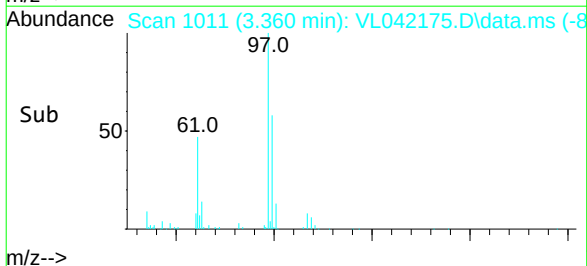
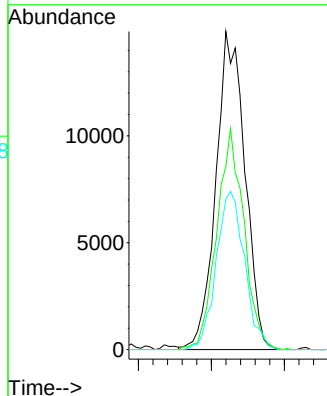
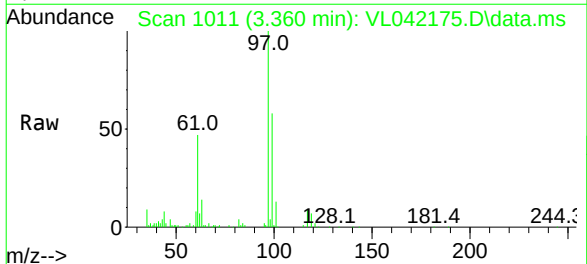
Manual Integrations
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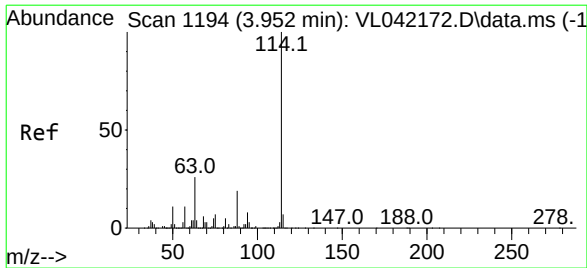
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#32
 1,1,1-Trichloroethane
 Concen: 0.485 ppbv
 RT: 3.360 min Scan# 1011
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

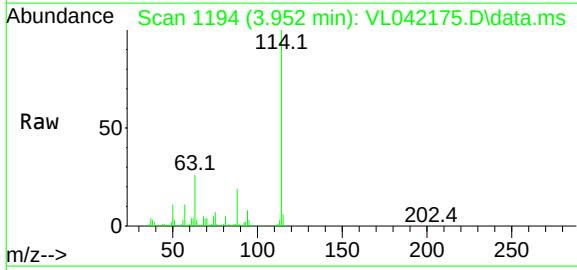
Tgt Ion:	97	Resp:	20567
Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.5	77.3
61	48.6	38.7	58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

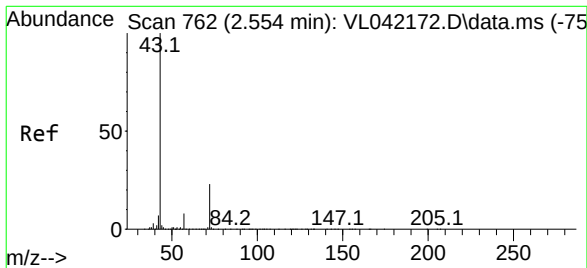
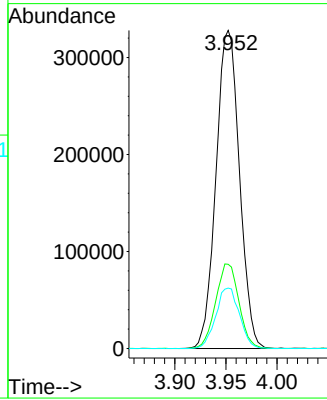
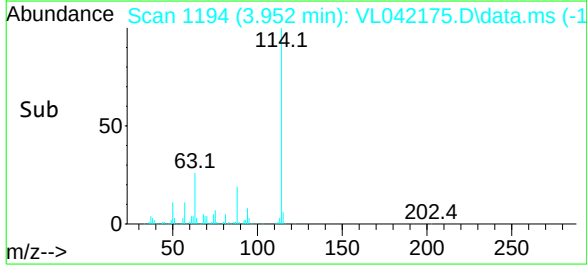
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 114 Resp: 523832
Ion Ratio Lower Upper
114 100
63 26.4 20.7 31.1
88 19.1 15.0 22.4

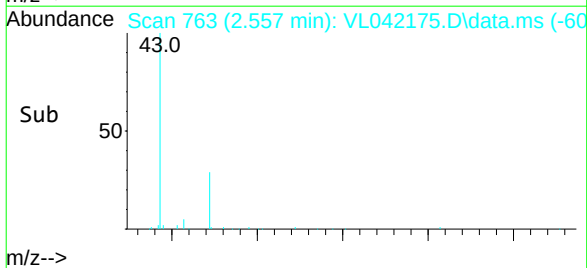
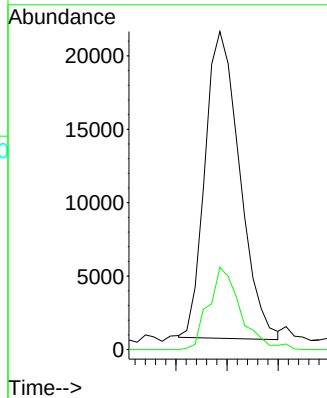
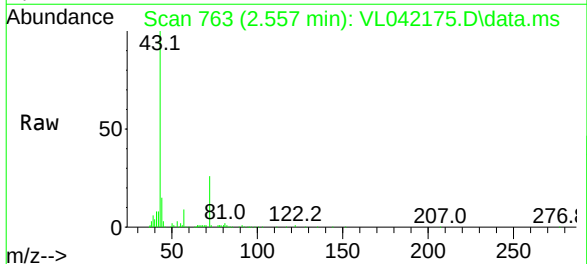
Manual Integrations
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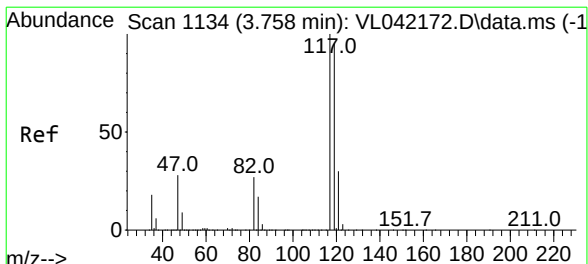
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#34
2-Butanone
Concen: 0.520 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

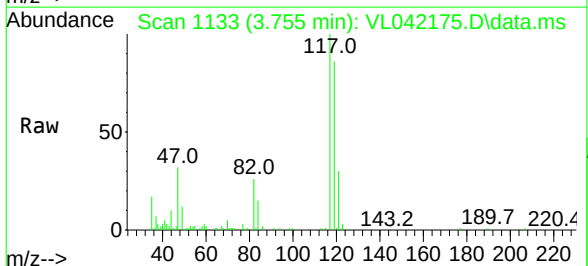
Tgt Ion: 43 Resp: 19739
Ion Ratio Lower Upper
43 100
72 24.8 18.2 27.2





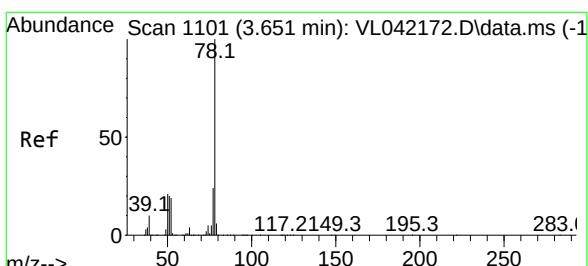
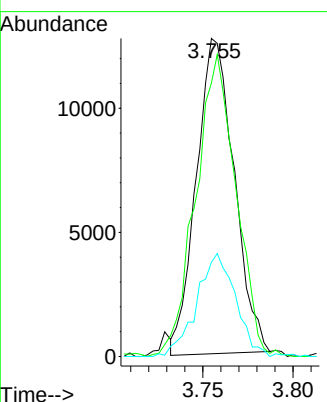
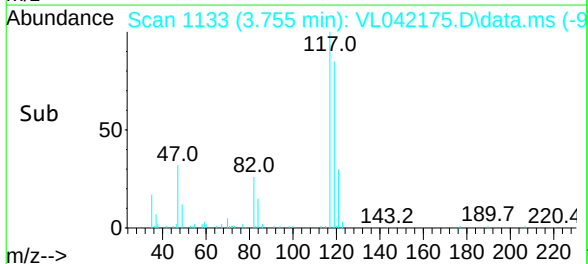
#35
 Carbon Tetrachloride
 Concen: 0.460 ppbv
 RT: 3.755 min Scan# 1113
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Instrument : MSVOA_L
 ClientSampleId : VSTDIC0.5

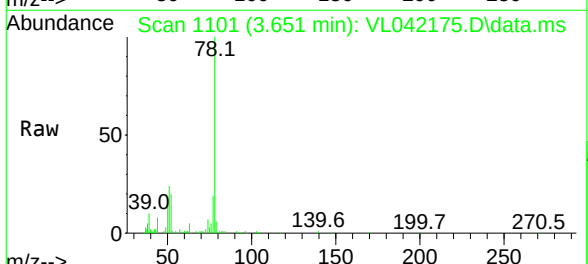


Tgt Ion:	117	Resp:	18558
Ion	Ratio	Lower	Upper
117	100		
119	86.4	76.2	114.2
121	30.1	24.2	36.4

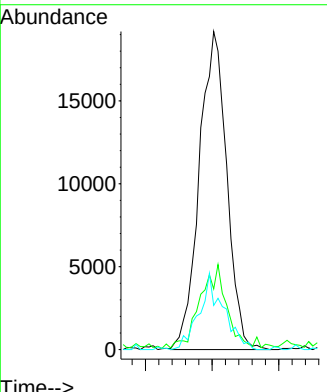
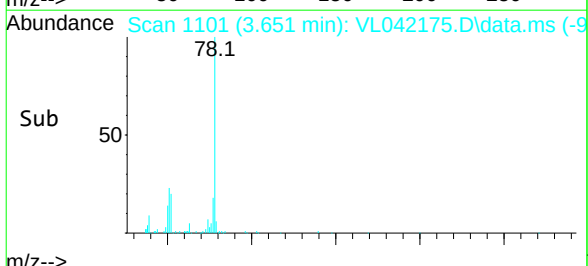
Manual Integrations
APPROVED
 Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

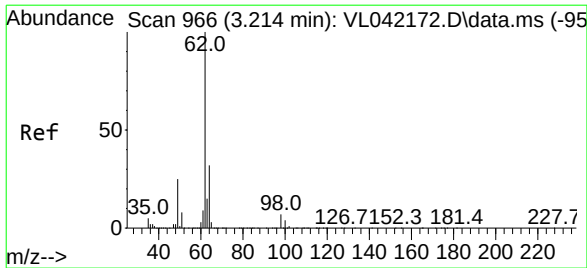


#36
 Benzene
 Concen: 0.529 ppbv
 RT: 3.651 min Scan# 1101
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01



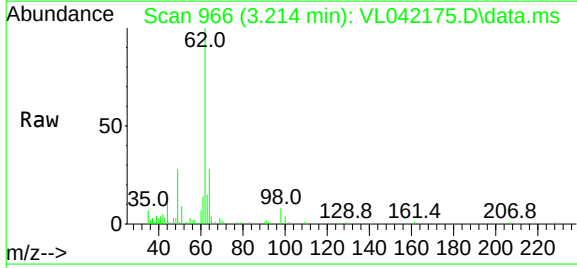
Tgt Ion:	78	Resp:	27488
Ion	Ratio	Lower	Upper
78	100		
77	18.5	19.1	28.7#
50	13.9	16.6	24.8#





#37
1,2-Dichloroethane
Concen: 0.540 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

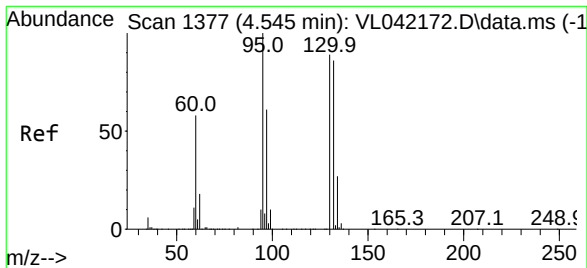
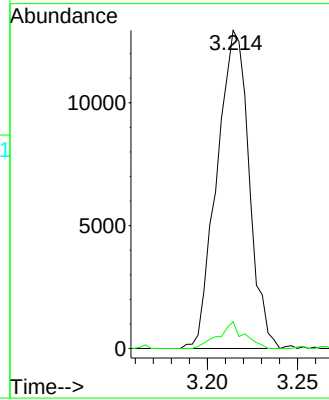
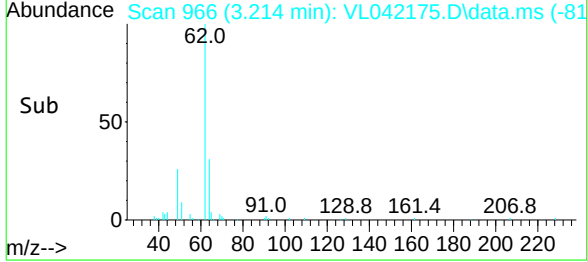
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



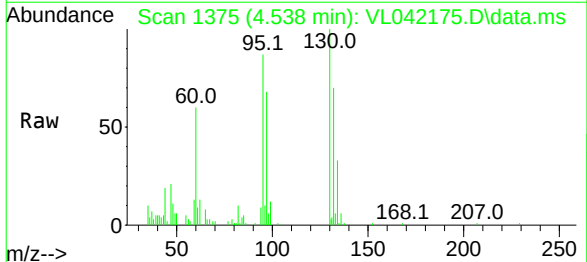
Tgt Ion: 62 Resp: 16062
Ion Ratio Lower Upper
62 100
98 7.0 5.4 8.2

Manual Integrations
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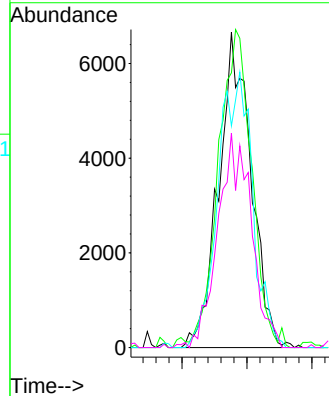
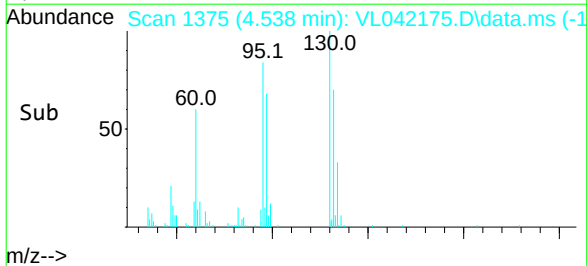
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

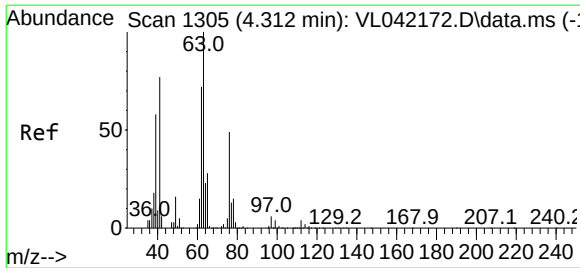


#38
Trichloroethene
Concen: 0.529 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01



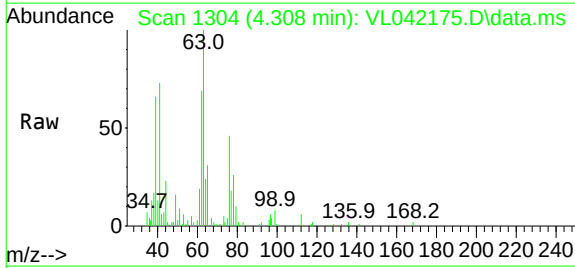
Tgt Ion:130 Resp: 11460
Ion Ratio Lower Upper
130 100
95 87.1 89.8 134.8#
132 70.3 77.4 116.2#
97 68.0 55.1 82.7





#39
1,2-Dichloropropane
Concen: 0.535 ppbv
RT: 4.308 min Scan# 1305
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

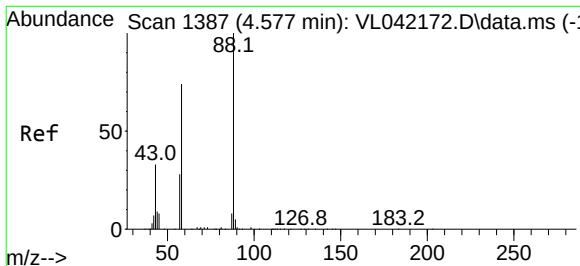
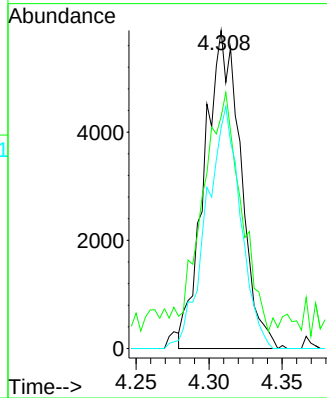
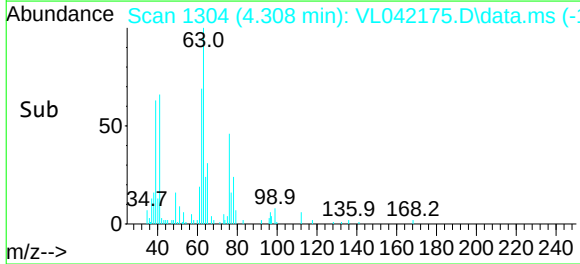
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 63 Resp: 10123
Ion Ratio Lower Upper
63 100
41 66.4 61.7 92.5
62 69.3 57.6 86.4

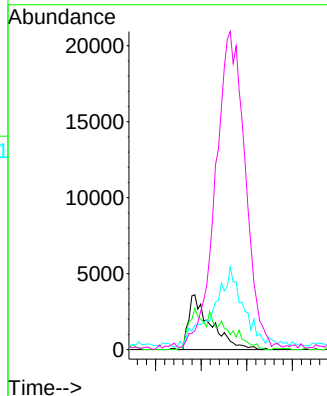
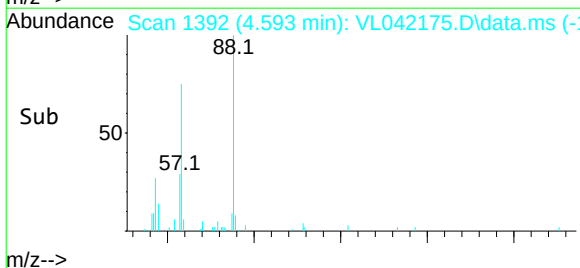
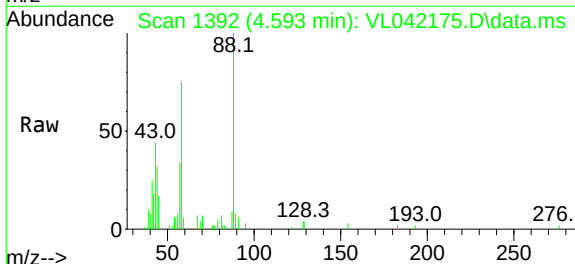
Manual Integrations
APPROVED

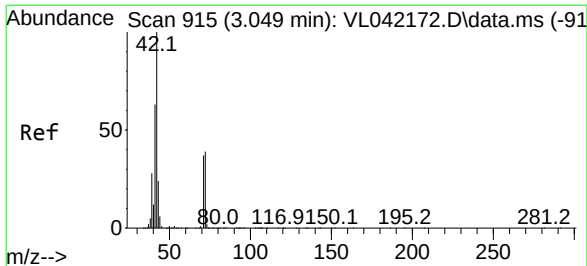
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#40
1,4-Dioxane
Concen: 0.624 ppbv m
RT: 4.593 min Scan# 1392
Delta R.T. 0.016 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

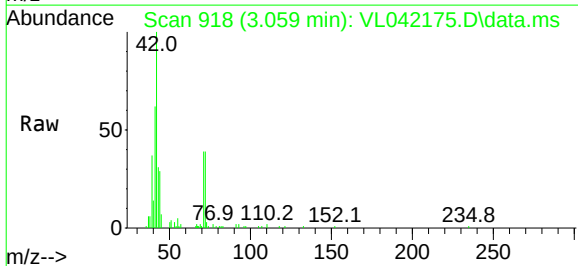
Tgt Ion: 88 Resp: 6121
Ion Ratio Lower Upper
88 100
58 111.2 62.7 94.1#
43 0.0 23.0 34.4#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 0.533 ppbv m
RT: 3.059 min Scan# 915
Delta R.T. 0.010 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

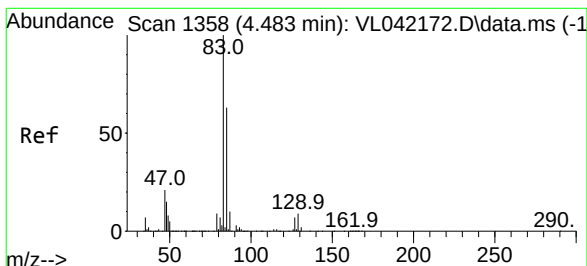
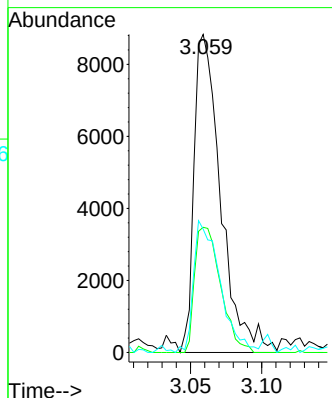
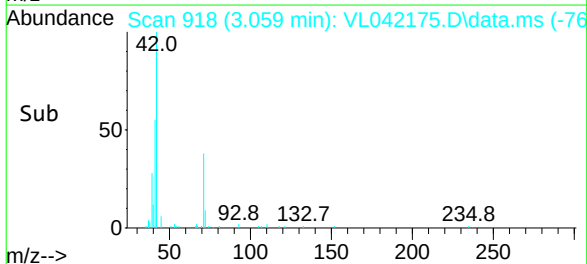
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 42 Resp: 11509
Ion Ratio Lower Upper
42 100
72 38.4 31.4 47.0
71 40.7 30.2 45.4

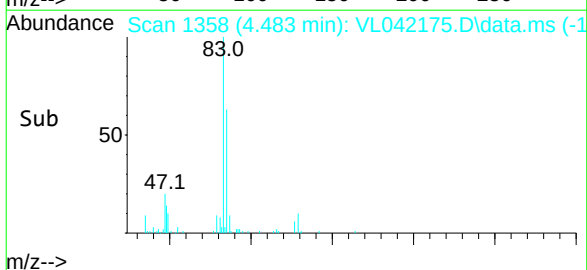
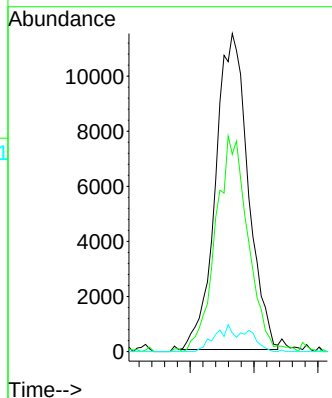
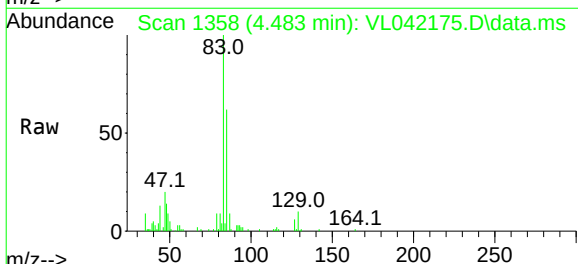
Manual Integrations
APPROVED

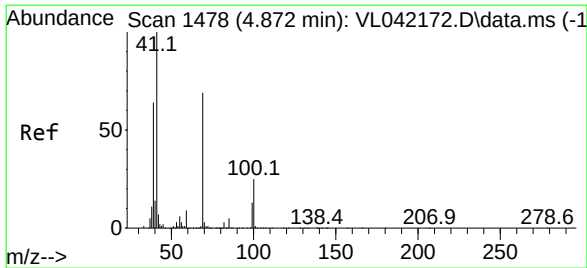
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42
Bromodichloromethane
Concen: 0.497 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 83 Resp: 20374
Ion Ratio Lower Upper
83 100
85 61.6 50.5 75.7
127 5.9 5.9 8.9#





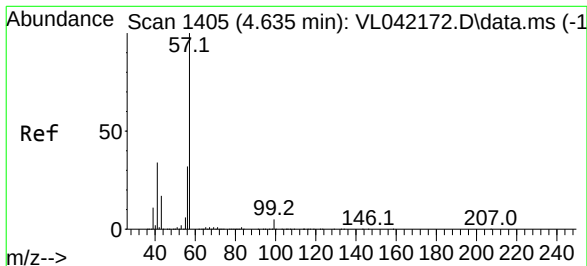
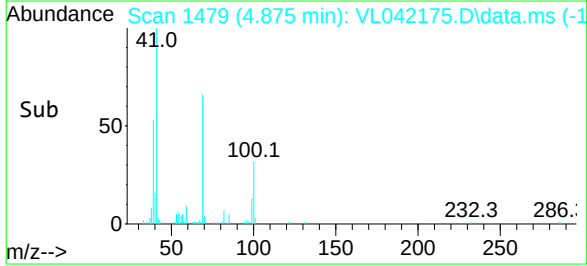
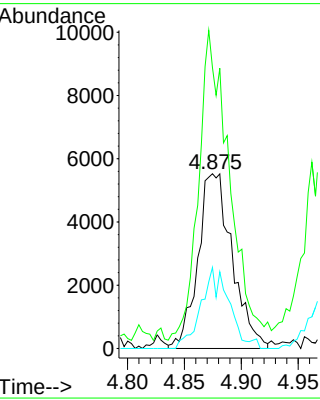
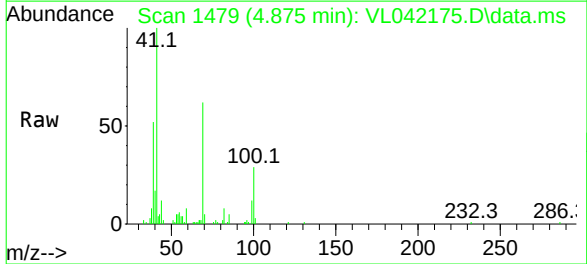
#43
Methyl Methacrylate
Concen: 0.528 ppbv m
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:	69	Resp:	11583
Ion	Ratio	Lower	Upper
69	100		
41	150.3	123.8	185.6
100	37.9	28.4	42.6

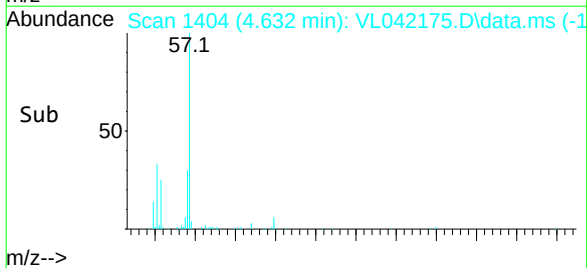
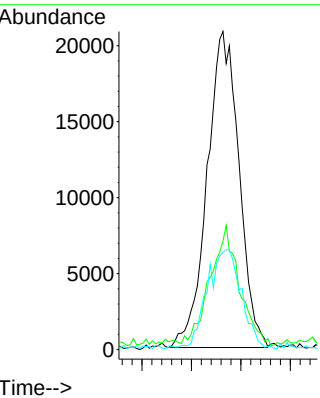
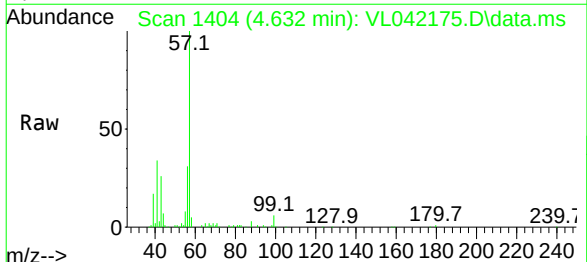
Manual Integrations
APPROVED

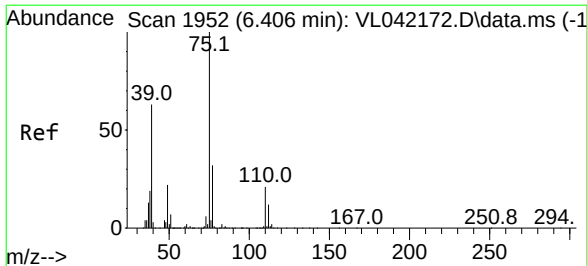
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 0.532 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	57	Resp:	46646
Ion	Ratio	Lower	Upper
57	100		
41	36.7	26.8	40.2
56	34.3	25.6	38.4





#45

t-1,3-Dichloropropene

Concen: 0.526 ppbv

RT: 6.406 min Scan# 19

Delta R.T. -0.000 min

Lab File: VL042175.D

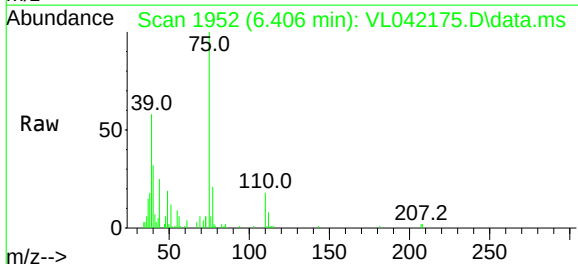
Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5



Tgt Ion: 75 Resp: 12404

Ion Ratio Lower Upper

75 100

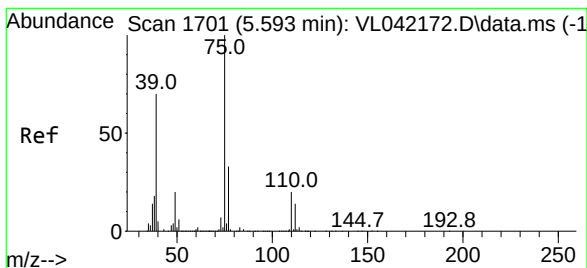
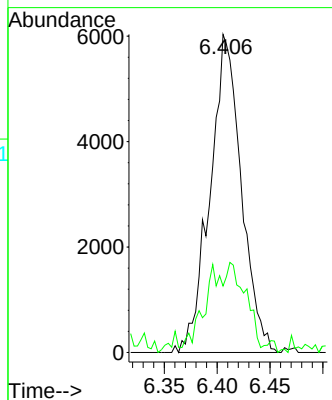
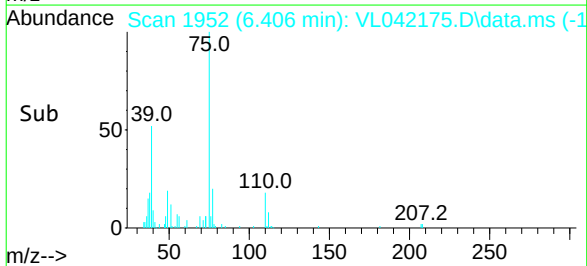
77 20.9 26.0 39.0#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#46

cis-1,3-Dichloropropene

Concen: 0.497 ppbv m

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

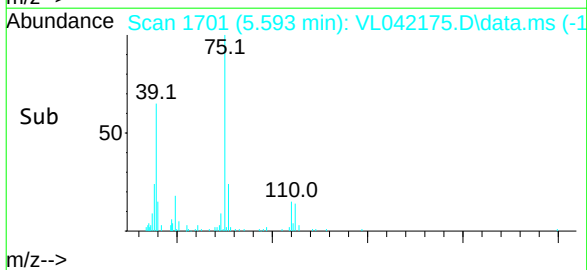
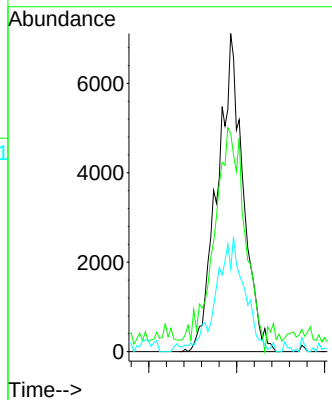
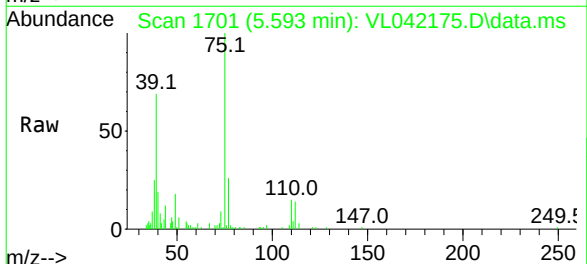
Tgt Ion: 75 Resp: 14374

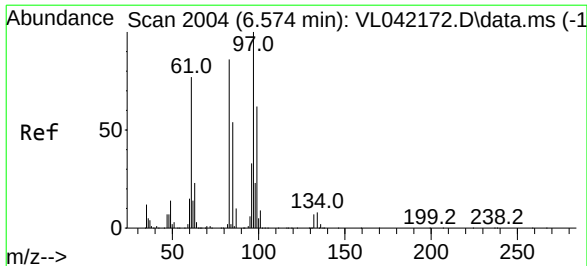
Ion Ratio Lower Upper

75 100

39 68.5 55.8 83.6

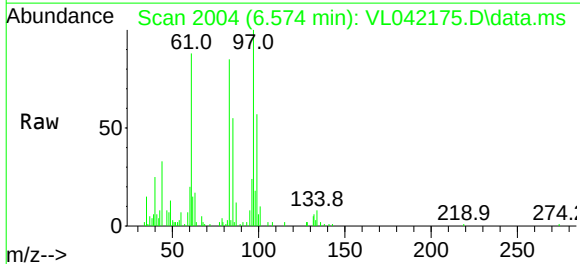
77 26.1 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 0.549 ppbv m
RT: 6.574 min Scan# 2004
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

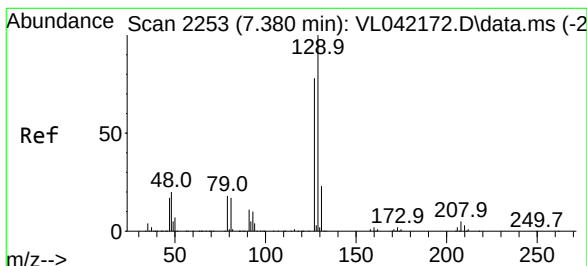
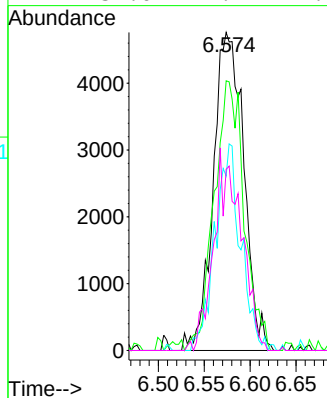
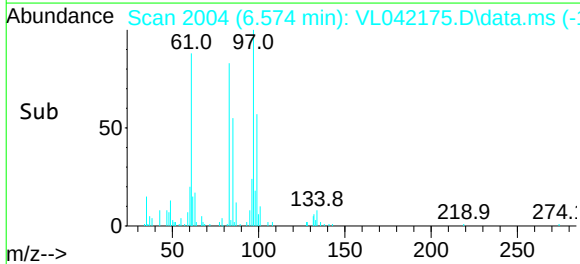
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.8	69.2	103.8
85	54.9	43.1	64.7
99	57.0	49.4	74.2

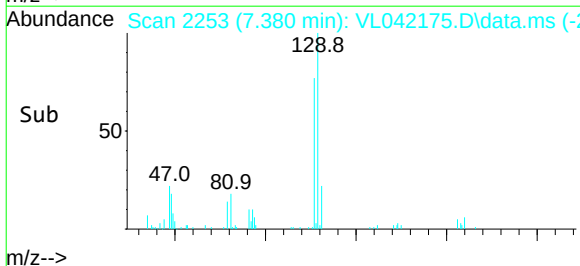
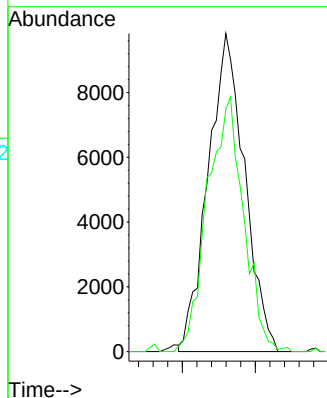
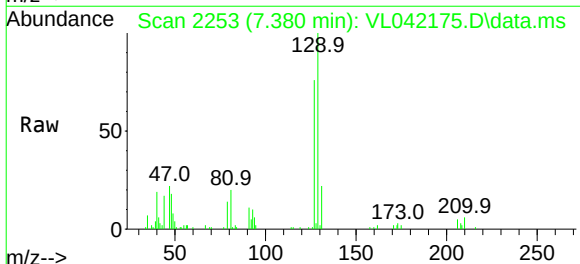
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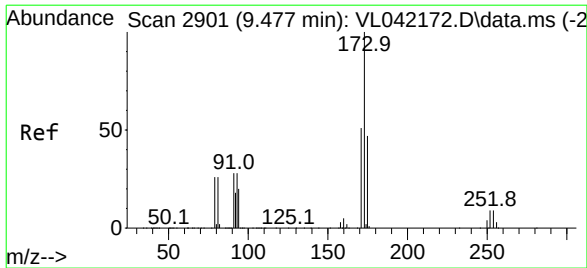
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 0.503 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.4	39.1	117.2





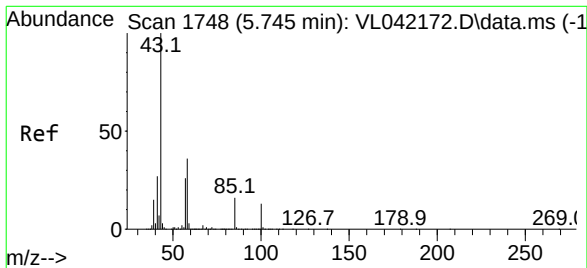
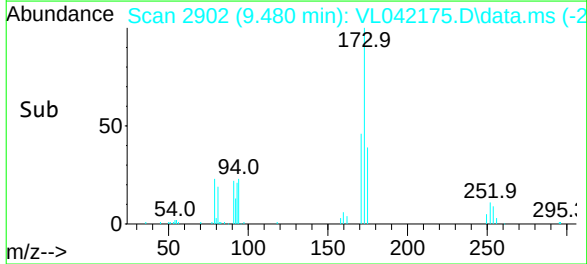
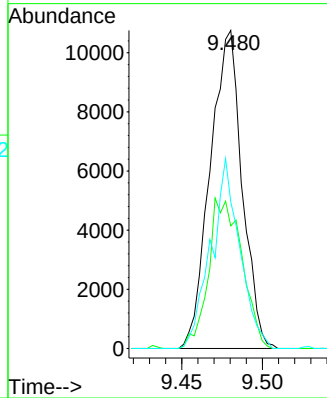
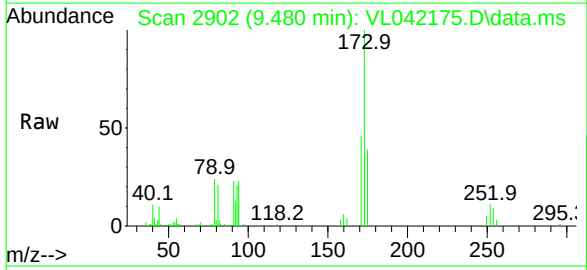
#49
Bromoform
Concen: 0.487 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 173 Resp: 14828
Ion Ratio Lower Upper
173 100
175 49.7 38.6 57.8
171 53.8 41.8 62.6

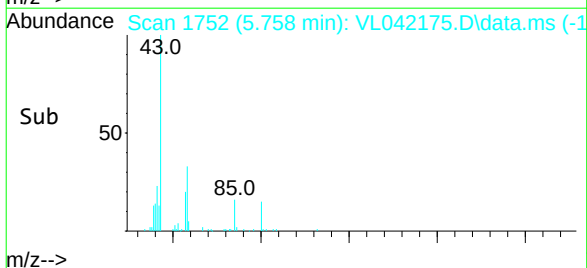
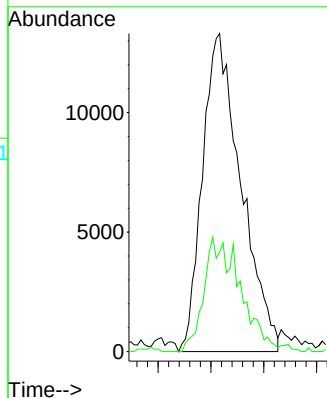
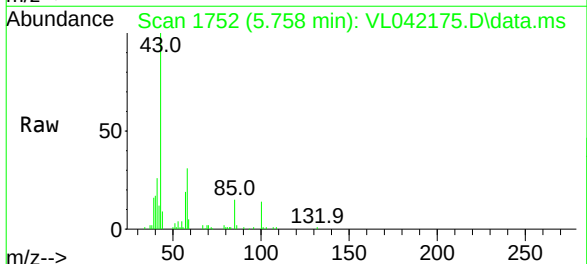
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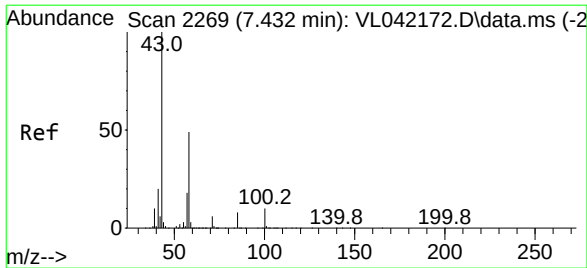
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 0.559 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.013 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

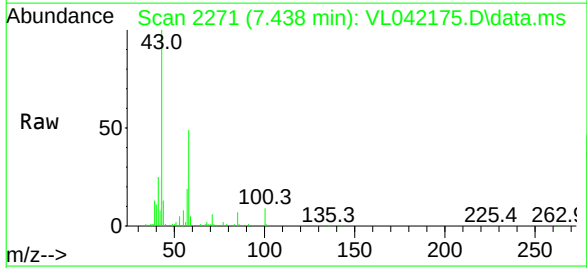
Tgt Ion: 43 Resp: 33674
Ion Ratio Lower Upper
43 100
58 34.4 29.0 43.6





#51
2-Hexanone
Concen: 0.523 ppbv
RT: 7.438 min Scan# 2269
Delta R.T. 0.006 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

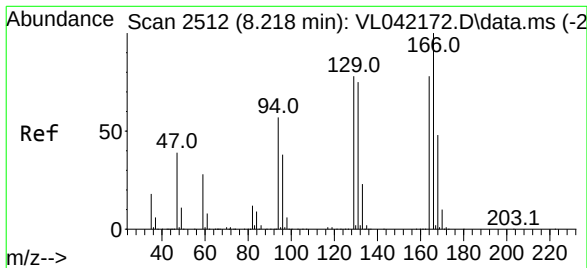
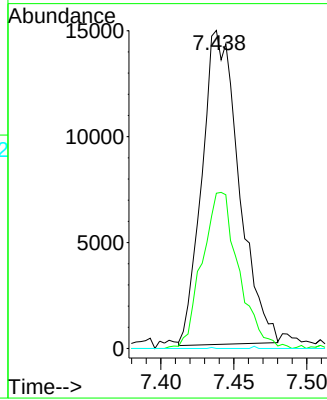
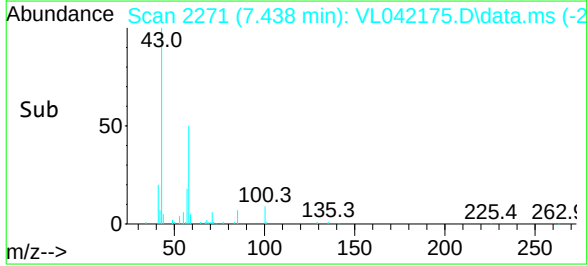
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 43 Resp: 26154
Ion Ratio Lower Upper
43 100
58 49.8 39.7 59.5
98 0.0 0.1 0.1#

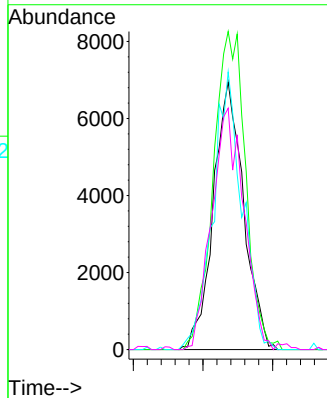
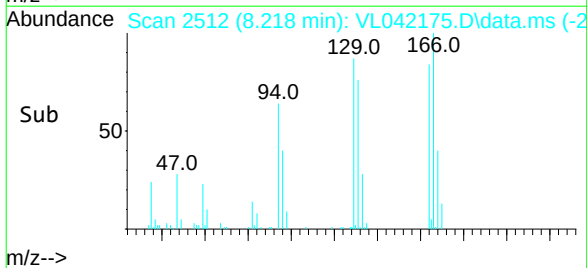
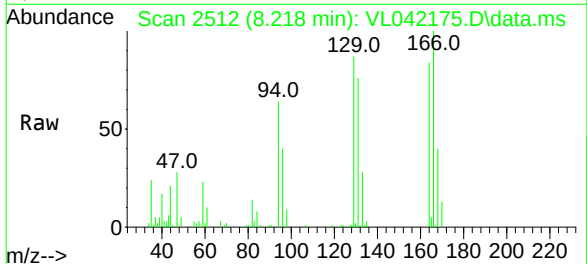
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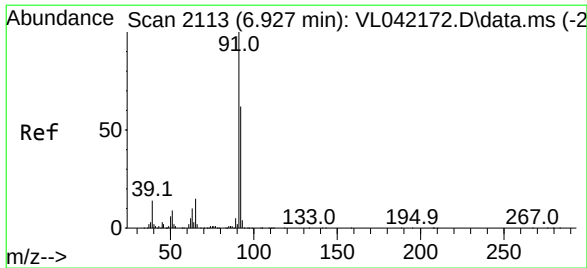
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#52
Tetrachloroethene
Concen: 0.510 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:164 Resp: 10502
Ion Ratio Lower Upper
164 100
166 118.9 102.5 153.7
129 103.8 79.8 119.8
131 90.2 76.6 114.8





#53

Toluene

Concen: 0.527 ppbv

RT: 6.923 min Scan# 2113

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 91 Resp: 32444

Ion Ratio Lower Upper

91 100

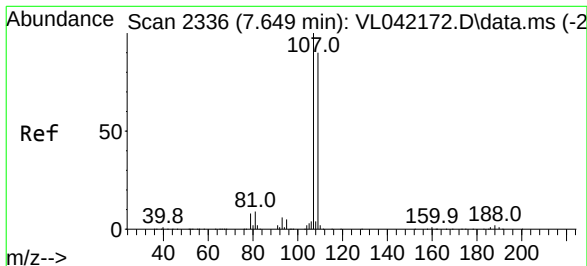
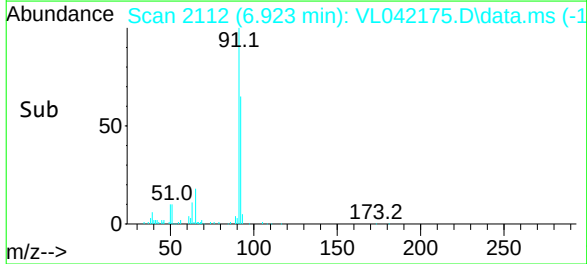
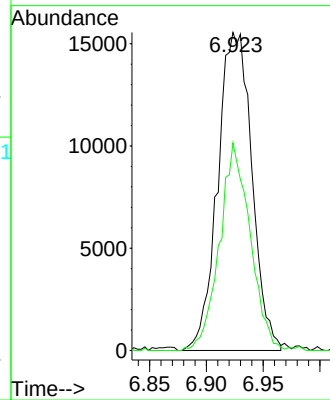
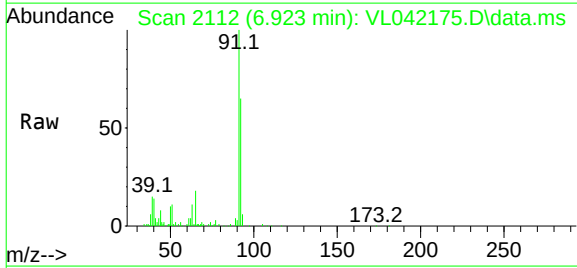
92 58.9 48.4 72.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 0.510 ppbv

RT: 7.648 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VL042175.D

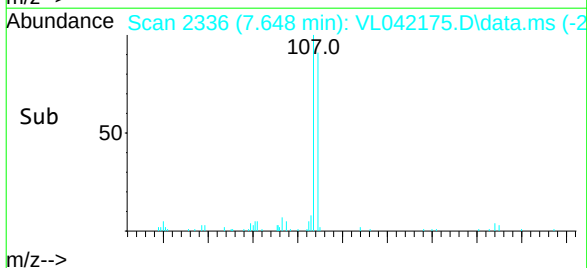
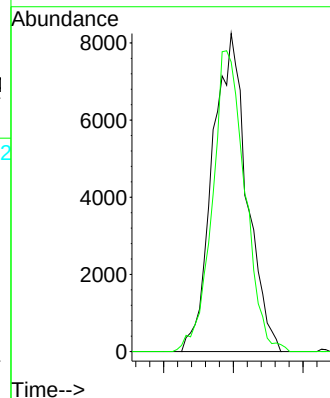
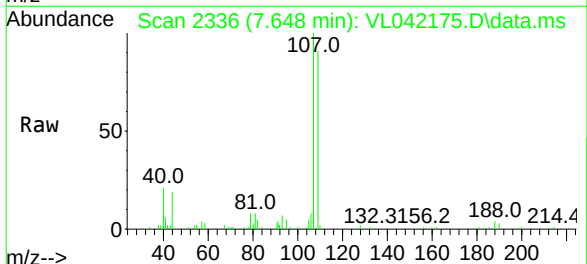
Acq: 27 Mar 2025 10:01

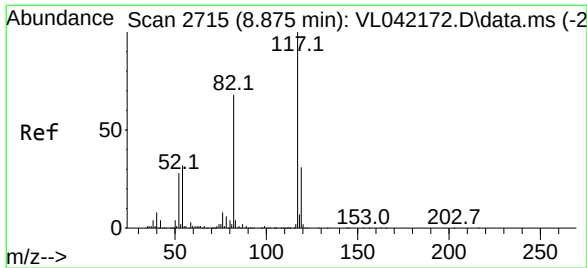
Tgt Ion:107 Resp: 14220

Ion Ratio Lower Upper

107 100

109 89.1 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

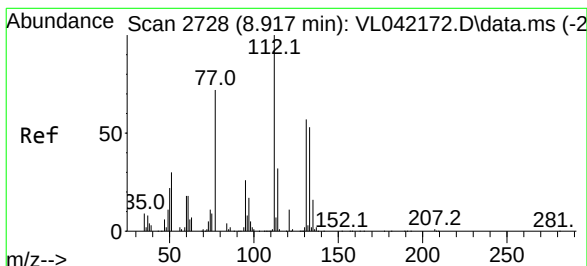
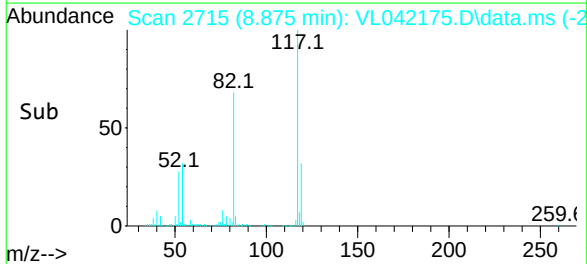
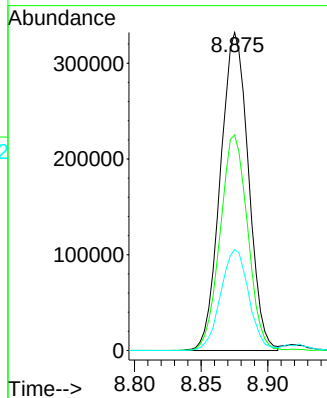
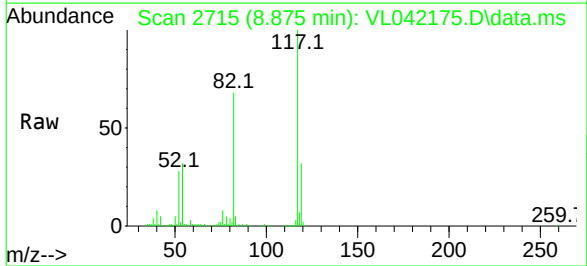
VSTDIC0.5

Tgt Ion:	117	Resp:	485078
Ion	Ratio	Lower	Upper
117	100		
82	67.0	55.8	83.6
119	33.7	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 0.523 ppbv

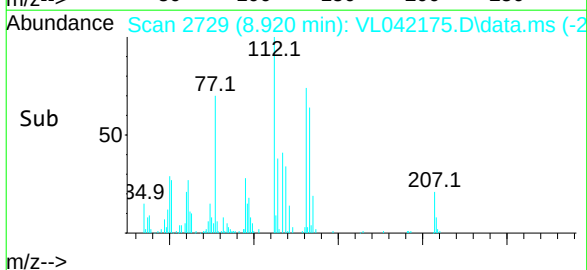
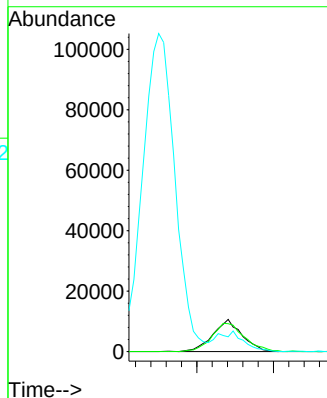
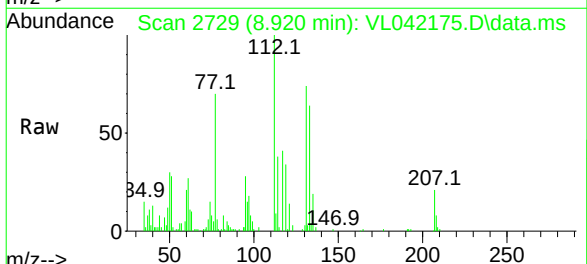
RT: 8.920 min Scan# 2729

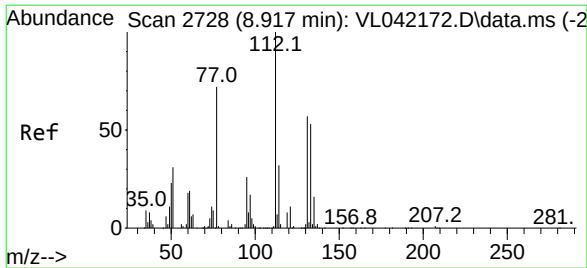
Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

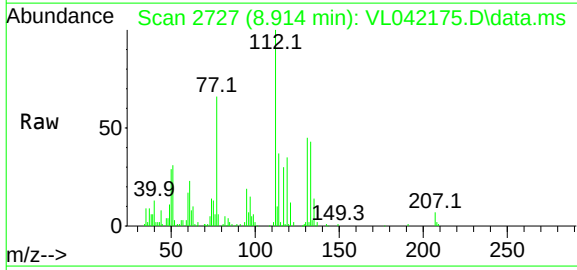
Tgt Ion:	131	Resp:	13959
Ion	Ratio	Lower	Upper
131	100		
133	99.6	76.6	114.8
119	1170.3	49.8	74.6#





#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 8.914 min Scan# 2728
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

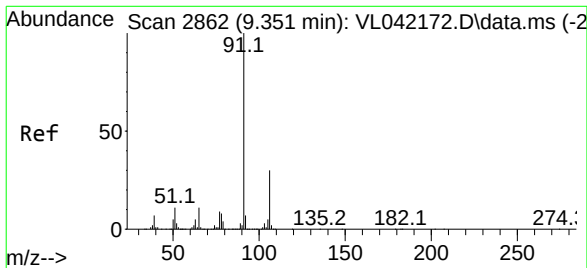
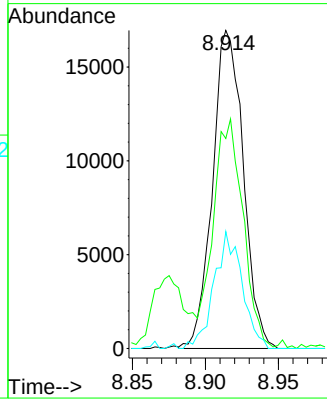
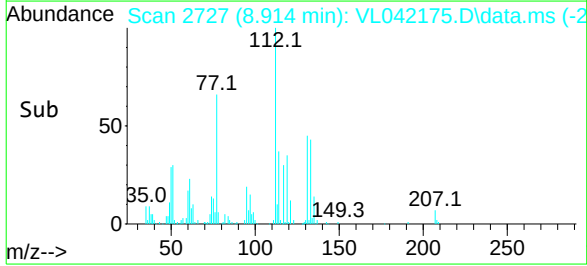
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 112 Resp: 24826
Ion Ratio Lower Upper
112 100
77 65.1 58.2 87.2
114 36.8 29.1 35.5#

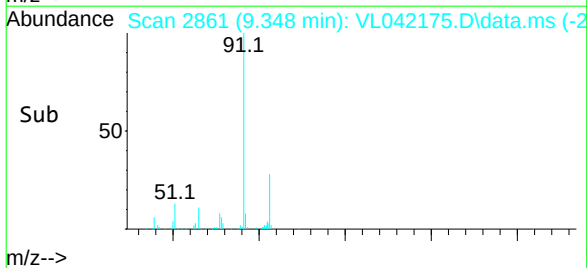
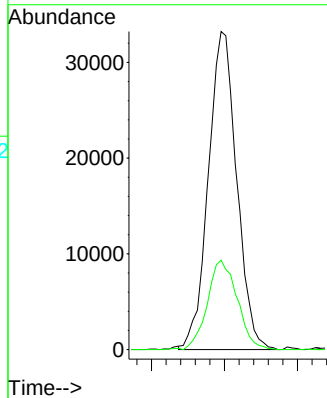
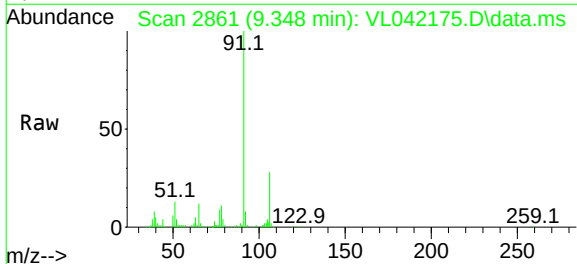
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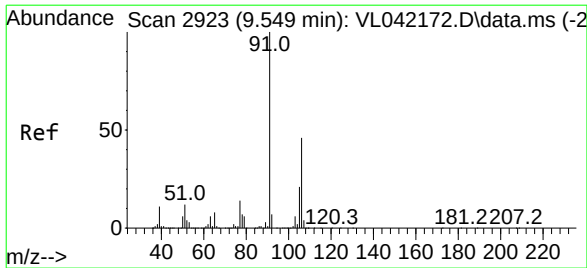
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 0.521 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 44862
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2





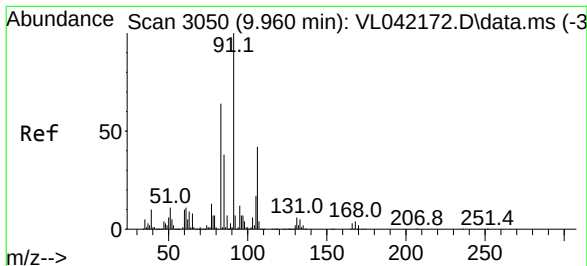
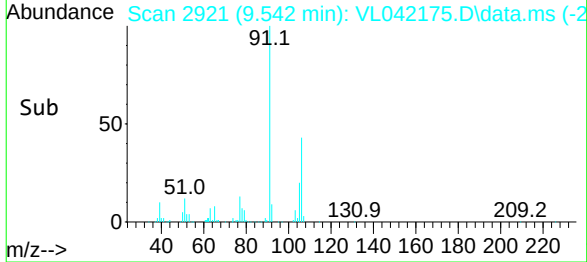
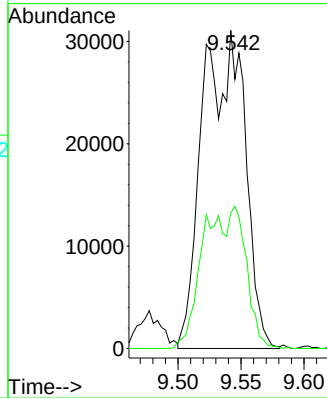
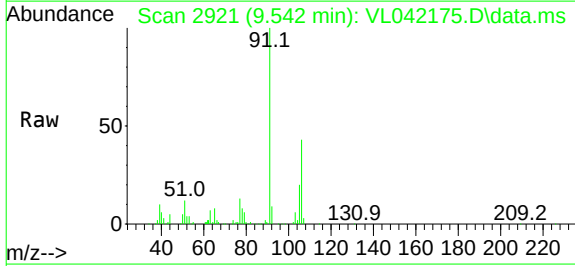
#59
m/p-Xylene
Concen: 1.060 ppbv m
RT: 9.542 min Scan# 29
Delta R.T. -0.007 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 73028
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6

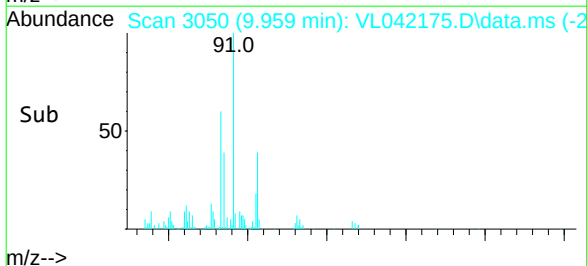
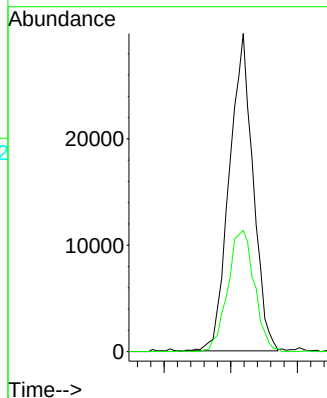
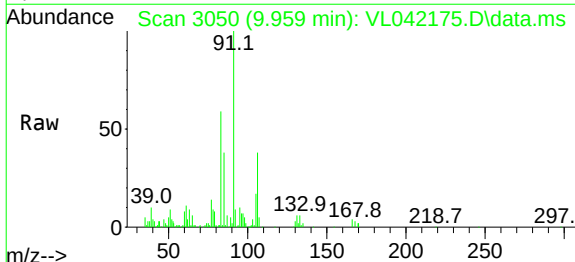
Manual Integrations
APPROVED

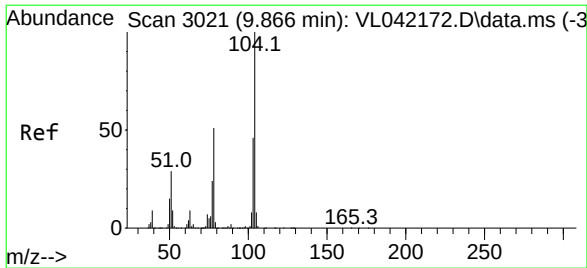
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#60
o-Xylene
Concen: 0.535 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion: 91 Resp: 36879
Ion Ratio Lower Upper
91 100
106 42.7 20.8 62.5





#61

Styrene

Concen: 0.504 ppbv

RT: 9.866 min Scan# 3021

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

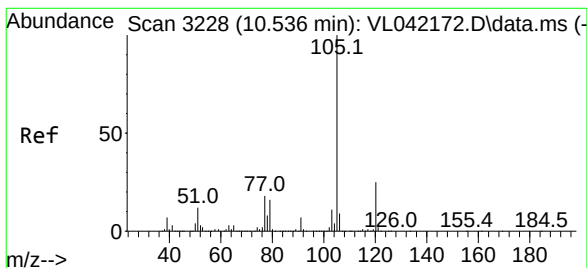
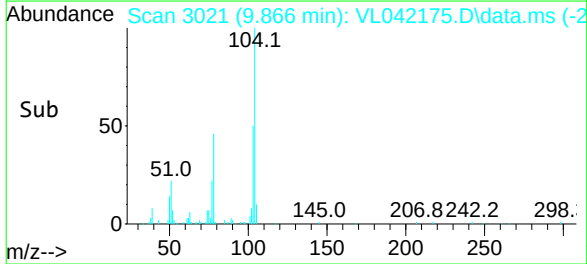
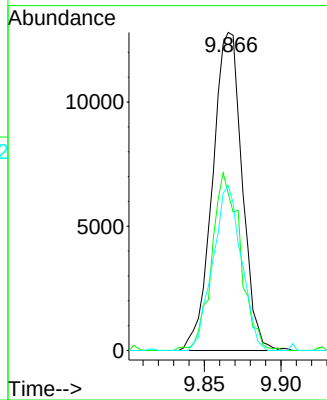
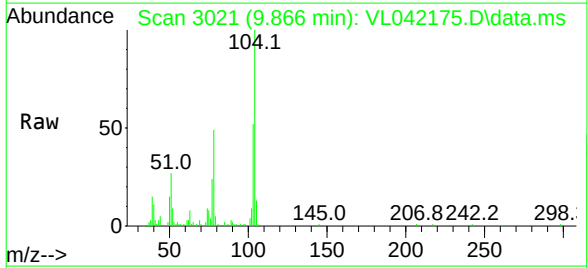
VSTDIC0.5

Tgt Ion:	104	Resp:	17198
Ion Ratio	Lower	Upper	
104	100		
78	53.7	41.8	62.6
103	50.2	37.0	55.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62

Isopropylbenzene

Concen: 0.538 ppbv

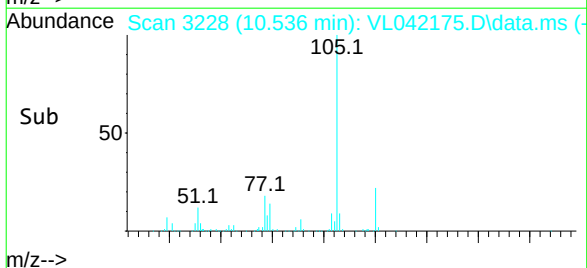
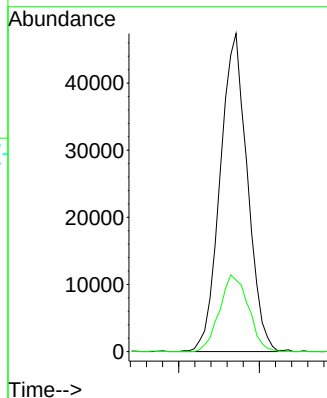
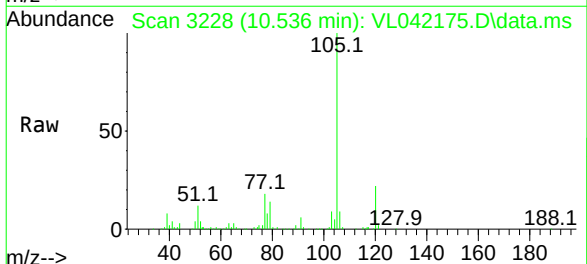
RT: 10.536 min Scan# 3228

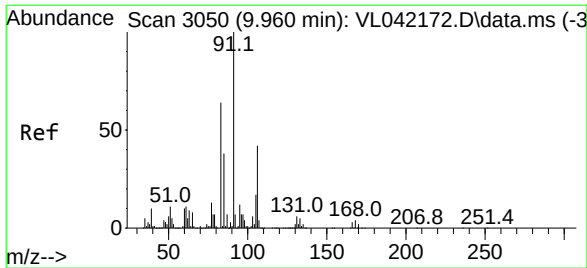
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	105	Resp:	55531
Ion Ratio	Lower	Upper	
105	100		
120	25.5	19.9	29.9





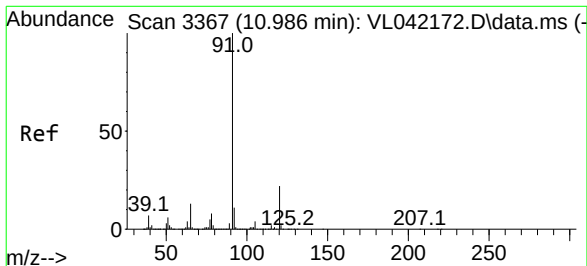
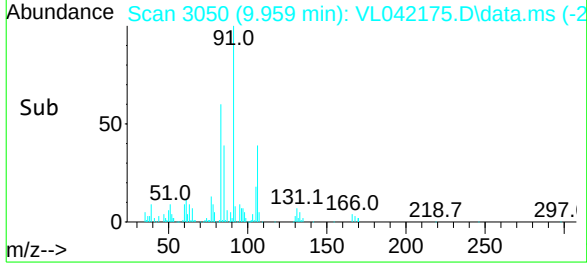
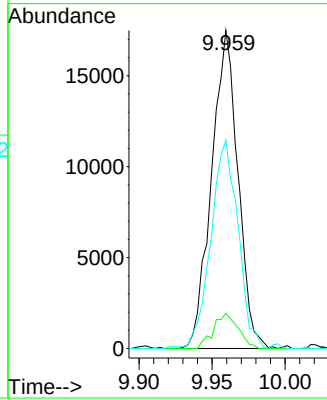
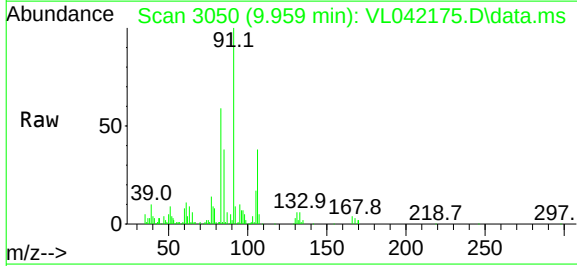
#63
1,1,2,2-Tetrachloroethane
Concen: 0.525 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion:	83	Resp:	21989
Ion	Ratio	Lower	Upper
83	100		
131	10.4	4.8	14.4
85	68.1	32.5	97.5

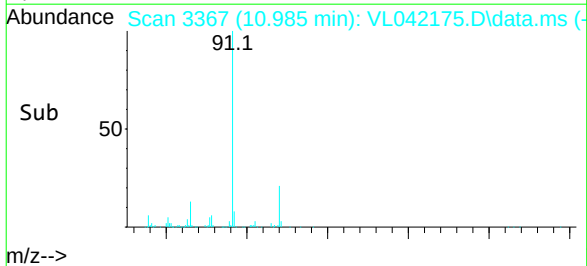
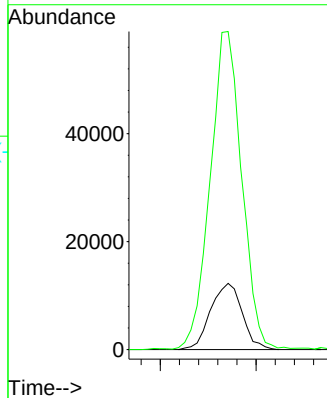
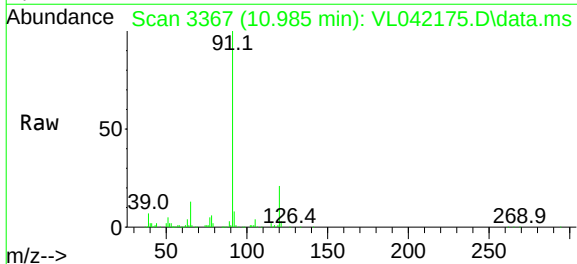
Manual Integrations
APPROVED

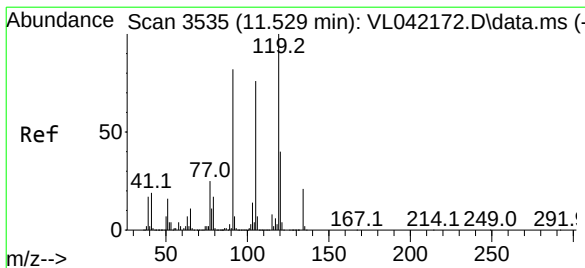
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 0.528 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	120	Resp:	14030
Ion	Ratio	Lower	Upper
120	100		
91	483.1	376.9	565.3





#65

tert-Butylbenzene

Concen: 0.557 ppbv

RT: 11.526 min Scan# 3511

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

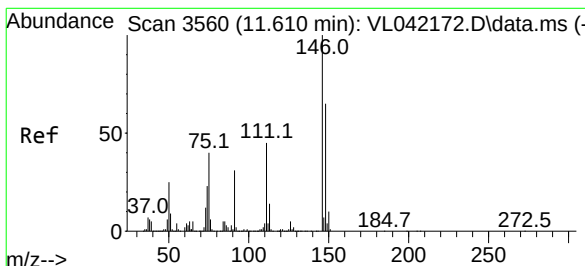
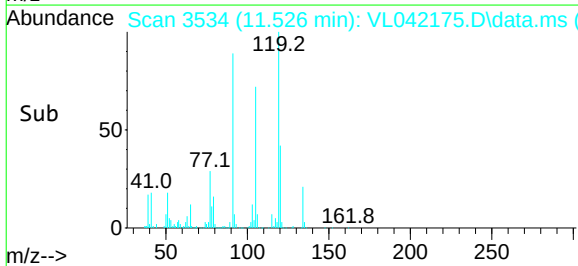
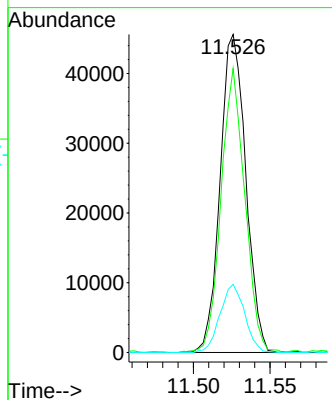
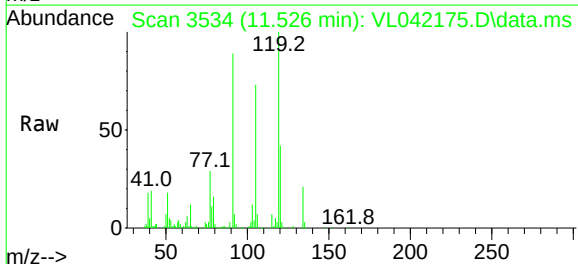
VSTDICC0.5

Tgt Ion:	119	Resp:	53115
Ion	Ratio	Lower	Upper
119	100		
91	82.9	66.0	99.0
134	20.6	16.7	25.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 0.520 ppbv

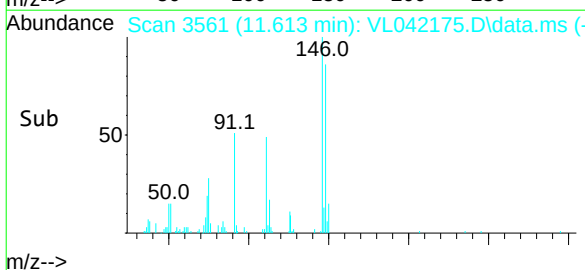
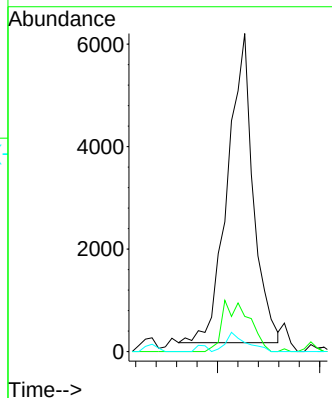
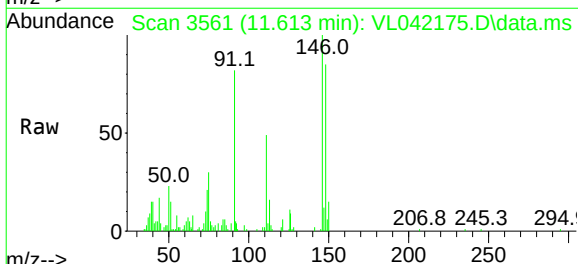
RT: 11.613 min Scan# 3561

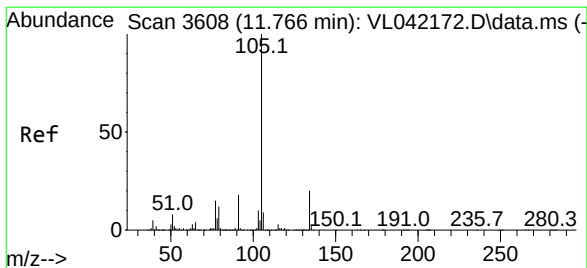
Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

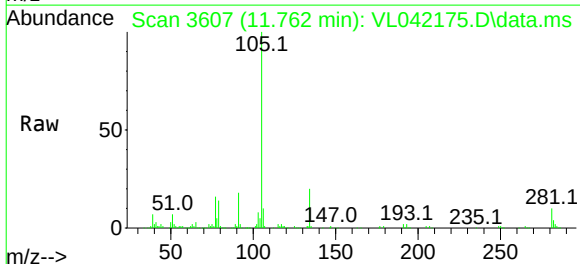
Tgt Ion:	91	Resp:	5263
Ion	Ratio	Lower	Upper
91	100		
126	18.7	13.8	20.6
128	5.8	4.5	6.7





#67
 sec-Butylbenzene
 Concen: 0.550 ppbv
 RT: 11.762 min Scan# 3608
 Delta R.T. -0.003 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

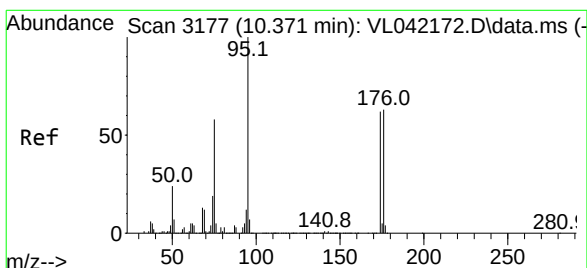
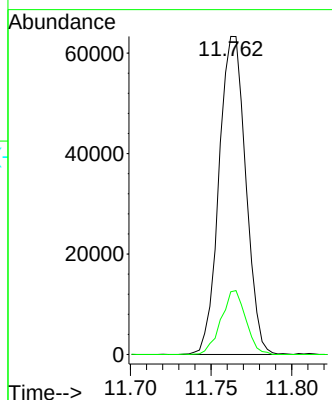
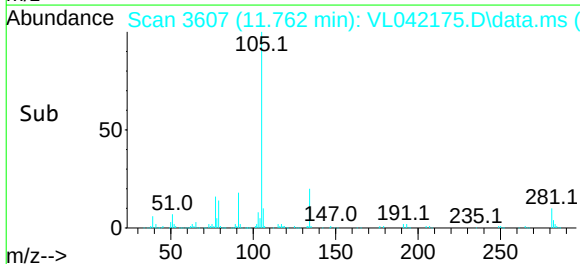
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion: 105 Resp: 72879
 Ion Ratio Lower Upper
 105 100
 134 18.6 15.5 23.3

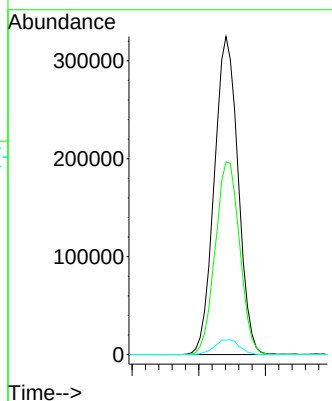
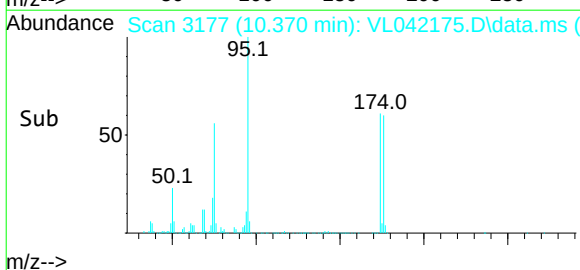
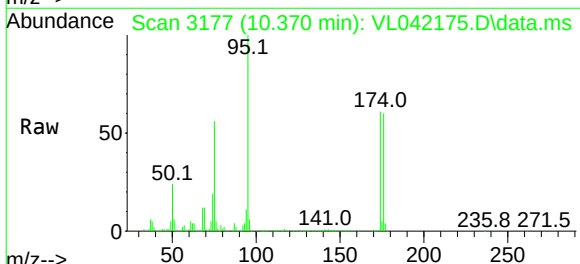
Manual Integrations
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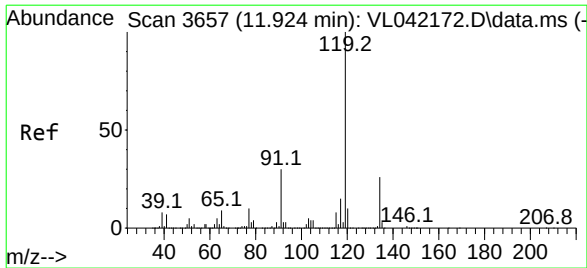
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.130 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.000 min
 Lab File: VL042175.D
 Acq: 27 Mar 2025 10:01

Tgt Ion: 95 Resp: 403513
 Ion Ratio Lower Upper
 95 100
 174 62.3 50.6 76.0
 175 4.9 3.8 5.6





#69

p-Isopropyltoluene

Concen: 0.542 ppbv

RT: 11.921 min Scan# 3657

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

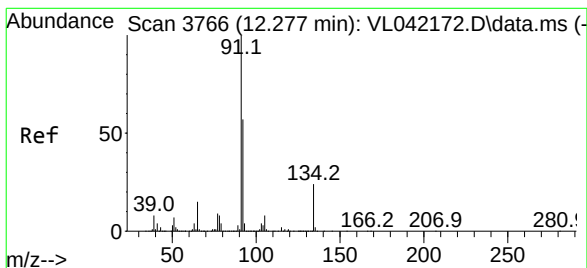
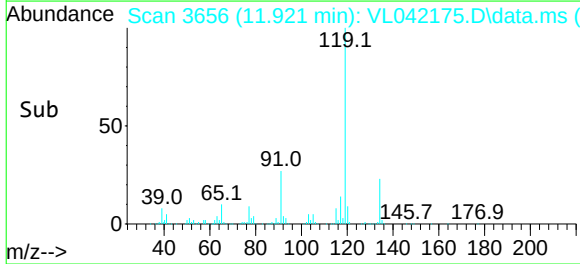
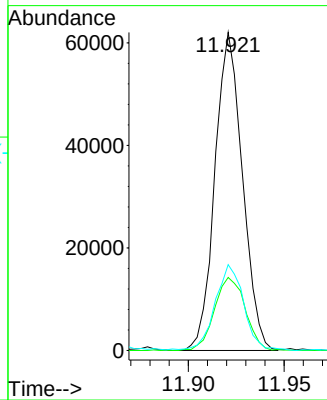
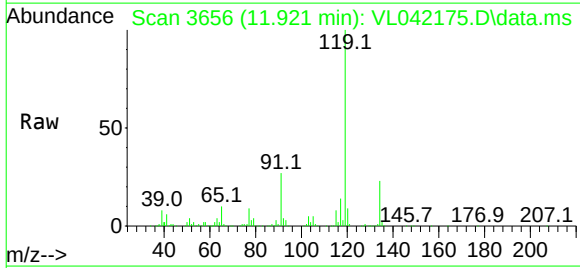
VSTDIC0.5

Tgt Ion:	119	Resp:	61933
Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.4	30.6
91	29.4	23.7	35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 0.527 ppbv

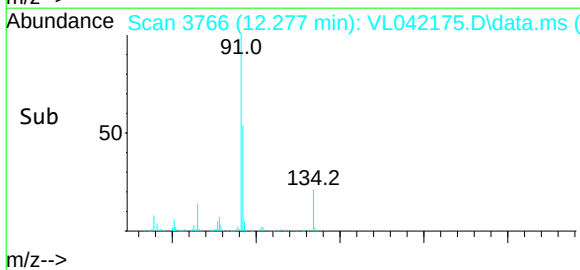
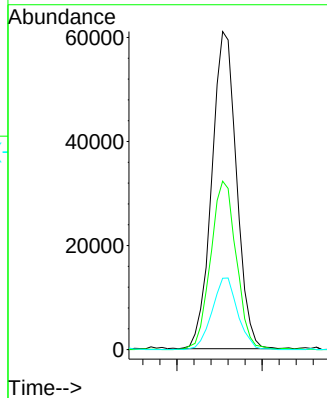
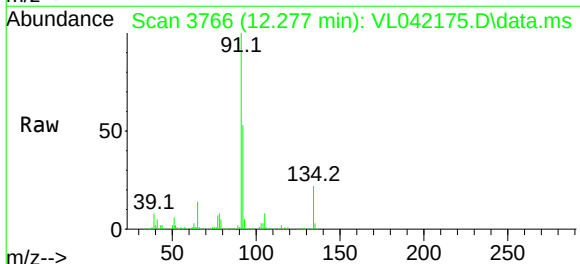
RT: 12.277 min Scan# 3766

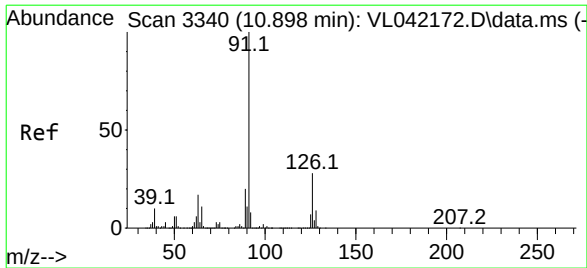
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	91	Resp:	61507
Ion	Ratio	Lower	Upper
91	100		
92	55.3	44.9	67.3
134	23.4	19.2	28.8





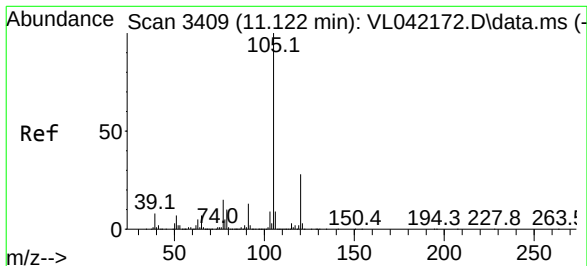
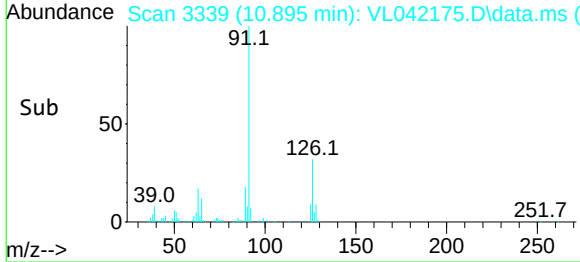
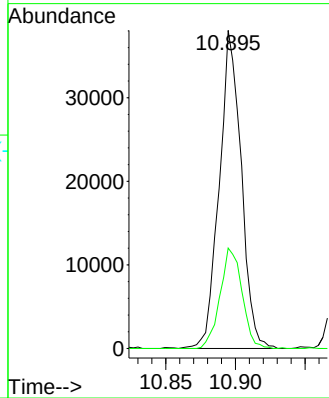
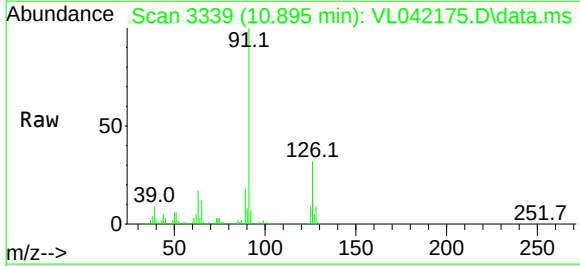
#71
2-Chlorotoluene
Concen: 0.520 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. -0.003 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Instrument : MSVOA_L
ClientSampleId : VSTDIC0.5

Tgt Ion:	91	Resp:	41637
Ion	Ratio	Lower	Upper
91	100		
126	31.7	11.6	46.4

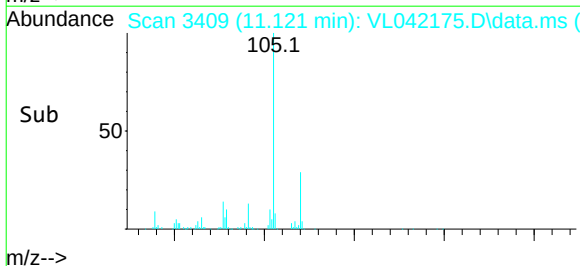
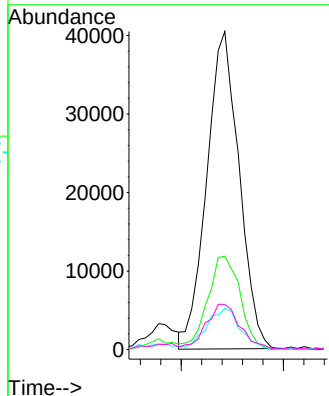
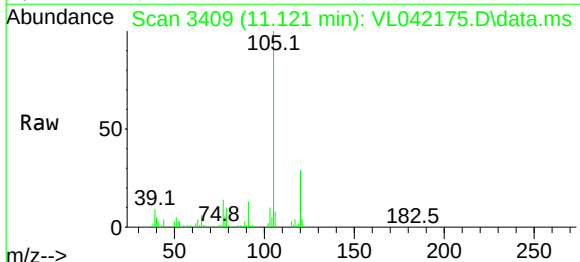
Manual Integrations
APPROVED

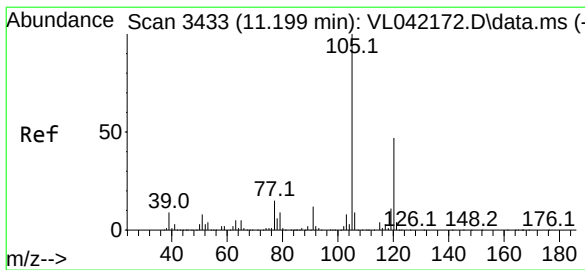
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#72
4-Ethyltoluene
Concen: 0.518 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042175.D
Acq: 27 Mar 2025 10:01

Tgt Ion:	105	Resp:	44473
Ion	Ratio	Lower	Upper
105	100		
120	32.3	23.4	35.0
91	14.9	10.3	15.5
77	17.8	11.4	17.2





#73

1,3,5-Trimethylbenzene

Concen: 0.523 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 39190

Ion Ratio Lower Upper

105 100

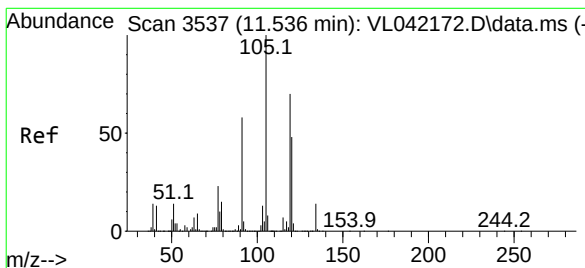
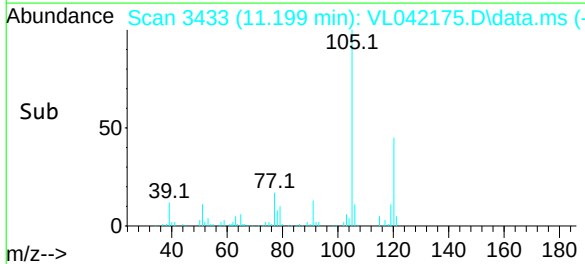
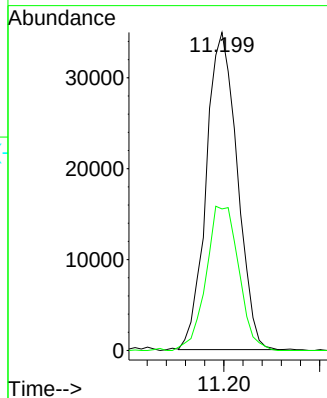
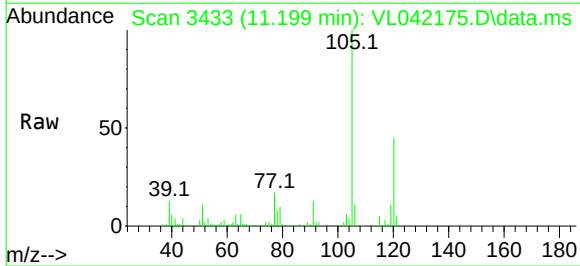
120 44.6 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.560 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:105 Resp: 48370

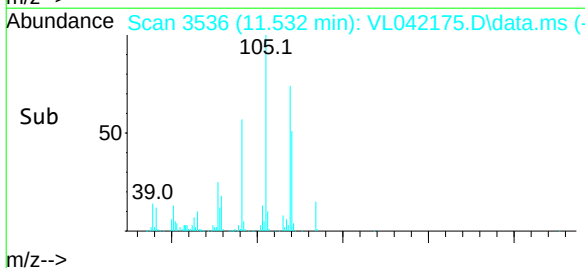
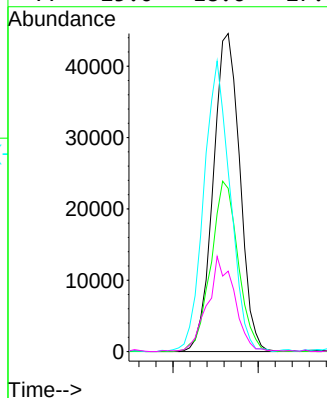
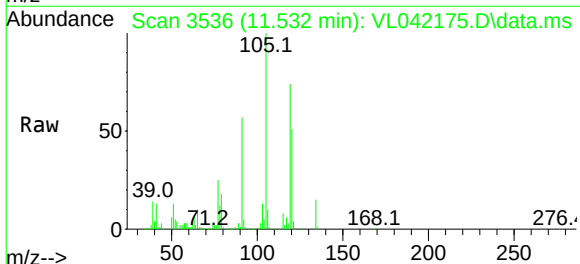
Ion Ratio Lower Upper

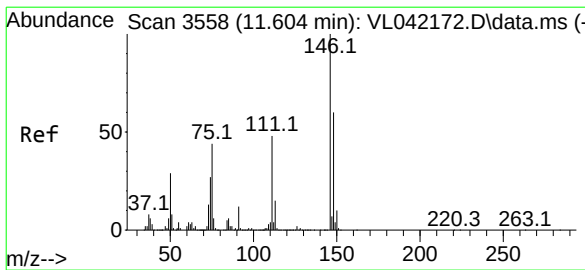
105 100

120 51.3 38.6 58.0

91 56.5 46.2 69.2

77 25.0 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 0.530 ppbv

RT: 11.600 min Scan# 3558

Delta R.T. -0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

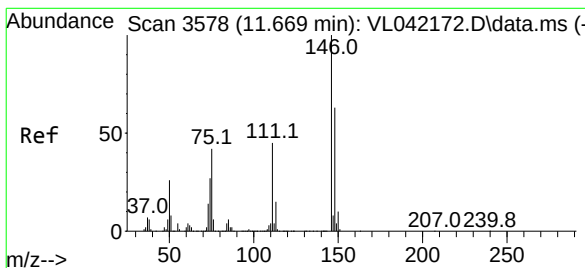
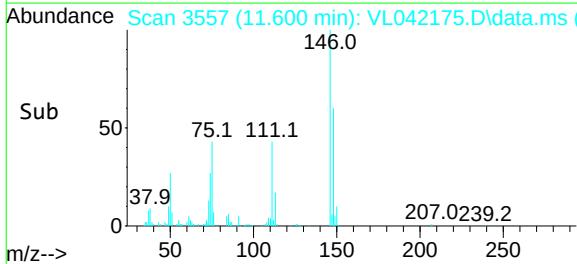
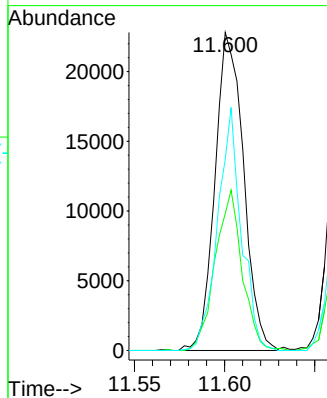
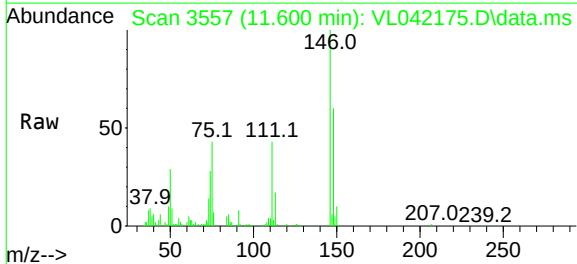
VSTDIC0.5

Tgt Ion:	146	Resp:	25122
Ion Ratio	Lower	Upper	
146	100		
111	47.5	23.8	71.2
148	63.7	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 0.530 ppbv

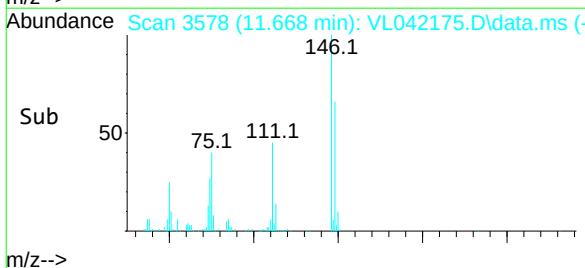
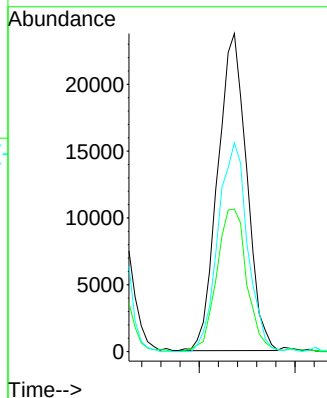
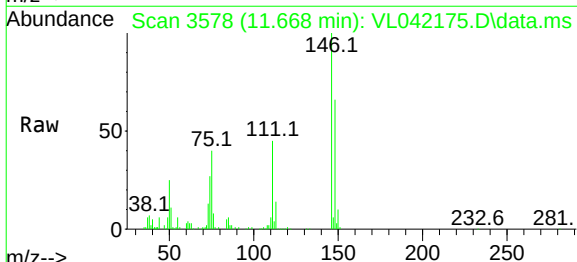
RT: 11.668 min Scan# 3578

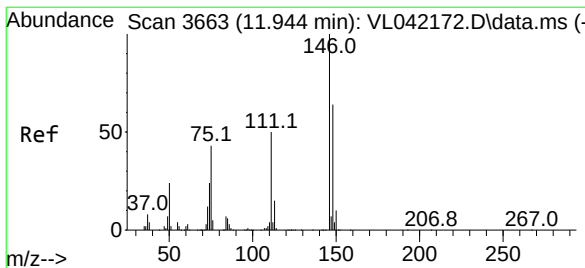
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	146	Resp:	24991
Ion Ratio	Lower	Upper	
146	100		
111	47.0	23.0	69.0
148	67.5	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 0.532 ppbv

RT: 11.943 min Scan# 3663

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

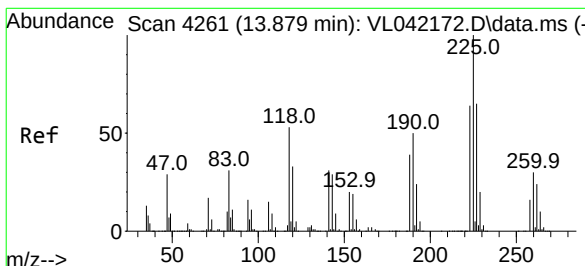
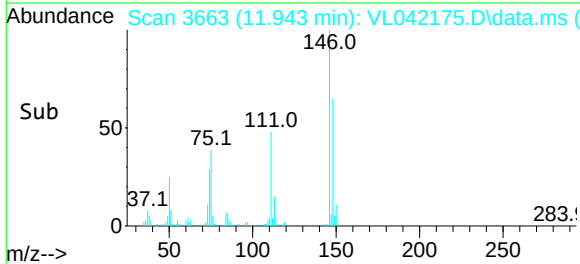
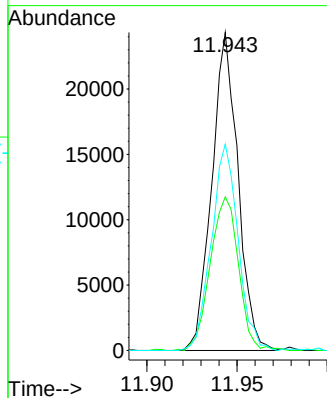
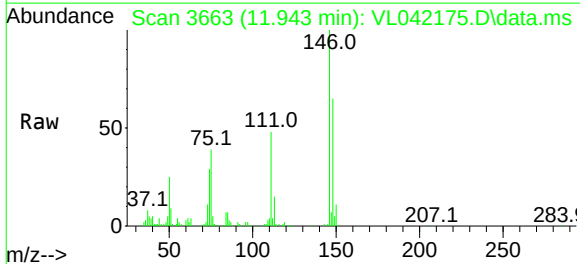
VSTDICC0.5

Tgt Ion:	146	Resp:	24548
Ion Ratio	Lower	Upper	
146	100		
111	52.2	24.8	74.3
148	66.6	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 0.546 ppbv

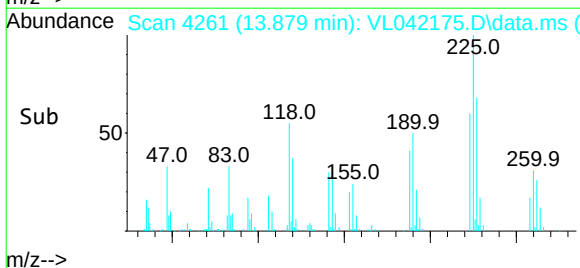
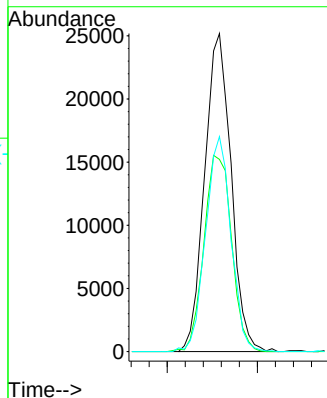
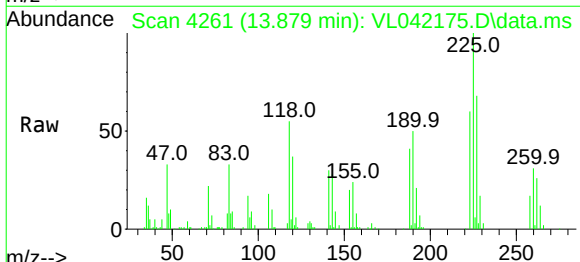
RT: 13.879 min Scan# 4261

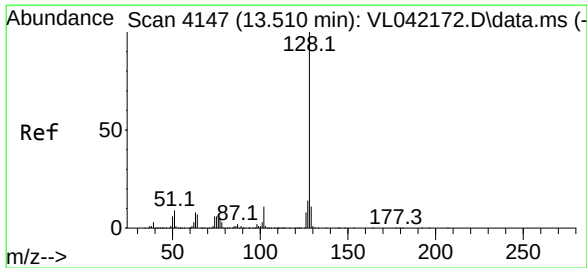
Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	225	Resp:	25636
Ion Ratio	Lower	Upper	
225	100		
223	64.5	50.6	76.0
227	64.8	51.2	76.8





#79

Naphthalene

Concen: 0.508 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.000 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

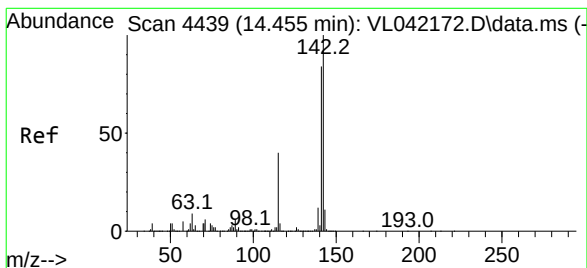
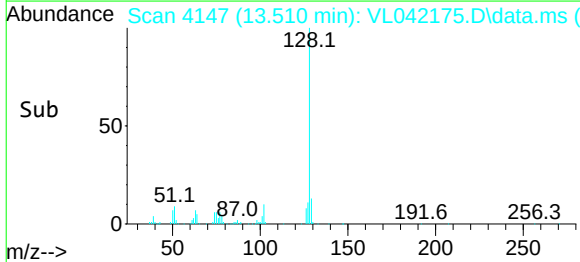
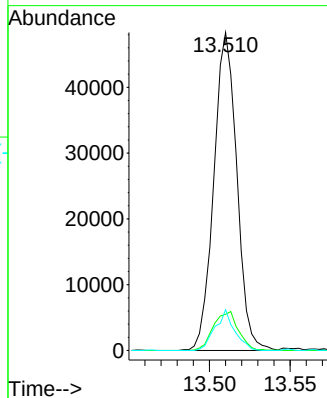
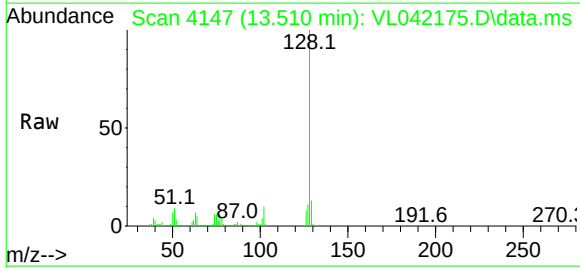
VSTDICC0.5

Tgt Ion:	128	Resp:	47990
Ion Ratio	Lower	Upper	
128	100		
127	11.4	10.8	16.2
129	12.8	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 0.380 ppbv

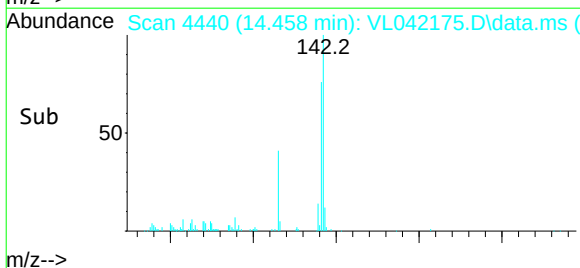
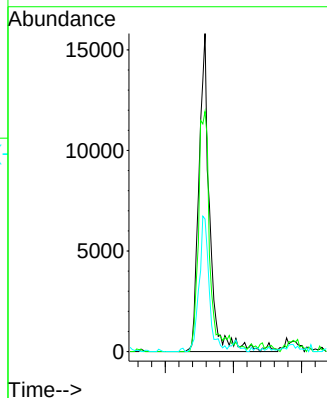
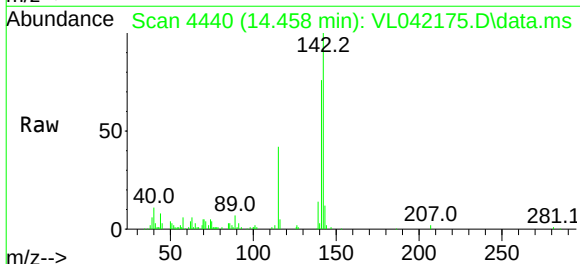
RT: 14.458 min Scan# 4440

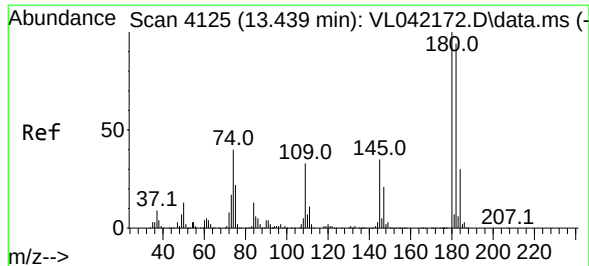
Delta R.T. 0.003 min

Lab File: VL042175.D

Acq: 27 Mar 2025 10:01

Tgt Ion:	142	Resp:	17486
Ion Ratio	Lower	Upper	
142	100		
141	83.3	66.3	99.5
115	43.5	31.6	47.4





#81

1,2,4-Trichlorobenzene

Concen: 0.457 ppbv

RT: 13.436 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042175.D

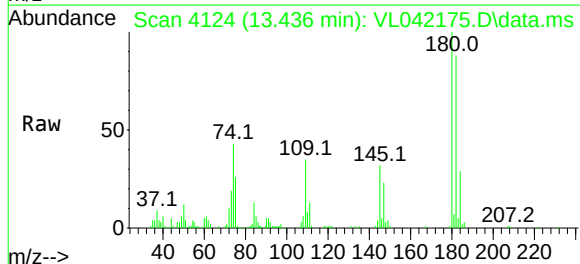
Acq: 27 Mar 2025 10:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

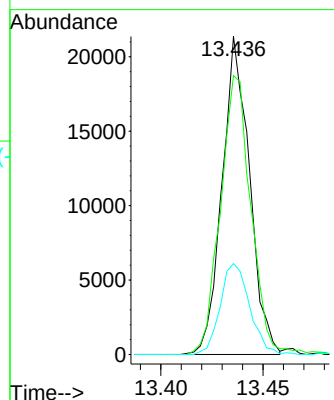
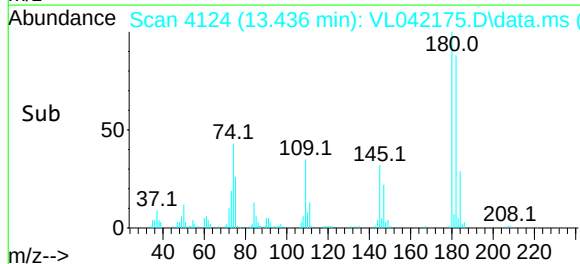


Tgt	Ion:180	Resp:	19924
Ion	Ratio	Lower	Upper
180	100		
182	97.9	75.1	112.7
184	31.1	24.4	36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042176.D
 Acq On : 27 Mar 2025 10:32
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards							
1)	Bromochloromethane	2.787	49	180740	10.000	ppbv	0.00
33)	1,4-Difluorobenzene	3.955	114	528028	10.000	ppbv	0.00
55)	Chlorobenzene-d5	8.878	117	481506	10.000	ppbv	0.00
System Monitoring Compounds							
68)	1-Bromo-4-Fluorobenzene	10.374	95	398069	10.067	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds							
							Qvalue
5)	Vinyl Chloride	1.580	62	1274	0.115	ppbv	# 42
32)	1,1,1-Trichloroethane	3.366	97	4509m	0.106	ppbv	
35)	Carbon Tetrachloride	3.768	117	4131m	0.102	ppbv	
38)	Trichloroethene	4.551	130	2306m	0.106	ppbv	
52)	Tetrachloroethene	8.225	164	1895m	0.091	ppbv	
54)	1,2-Dibromoethane	7.652	107	3033m	0.108	ppbv	
63)	1,1,2,2-Tetrachloroethane	9.966	83	3852m	0.093	ppbv	
79)	Naphthalene	13.513	128	7882	0.084	ppbv	# 92

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

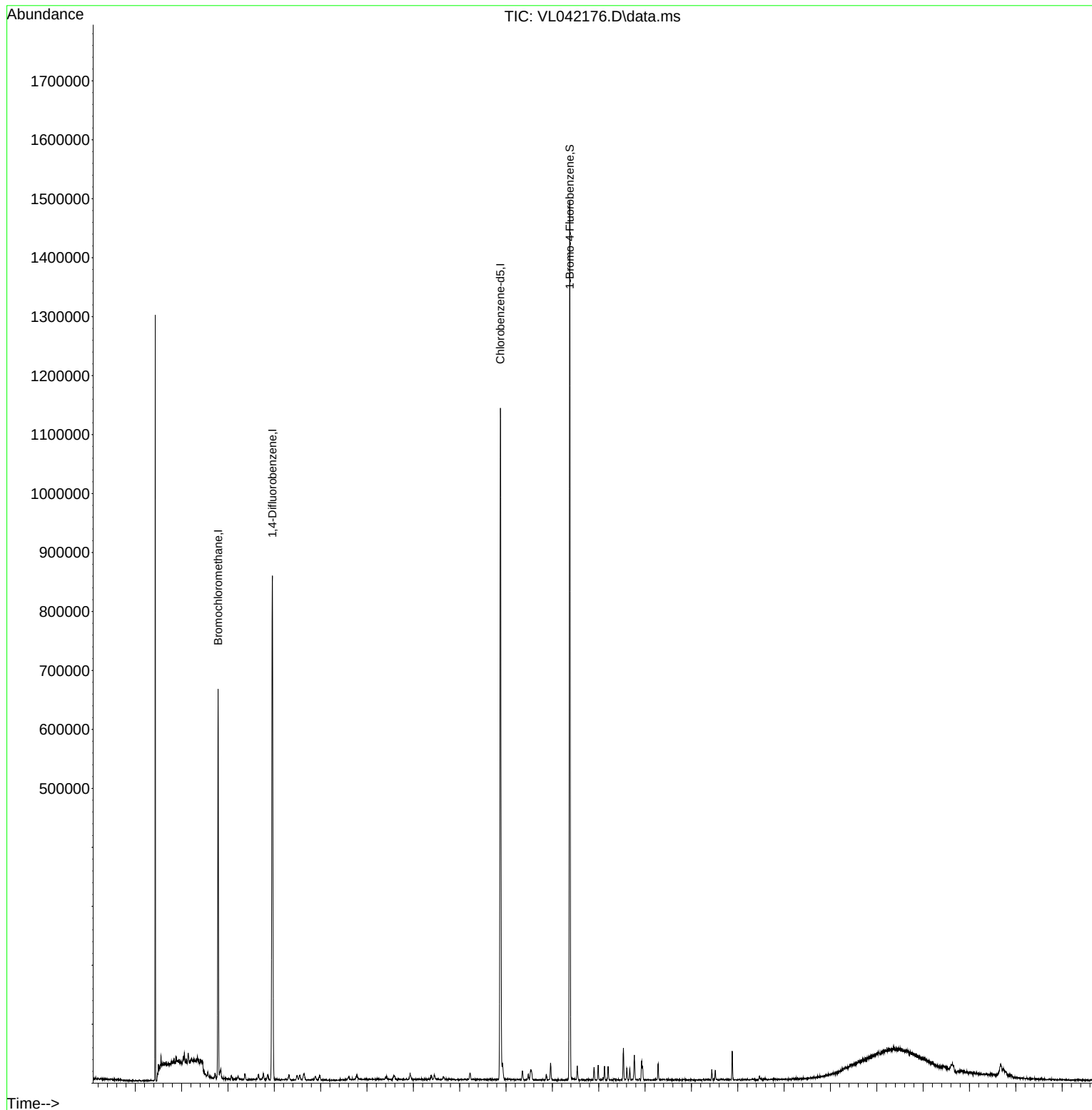
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

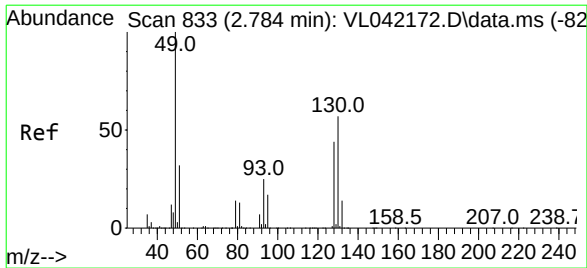
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

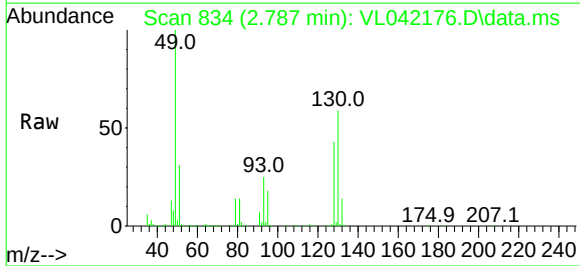
Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

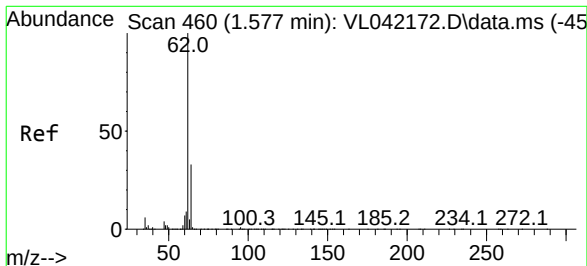
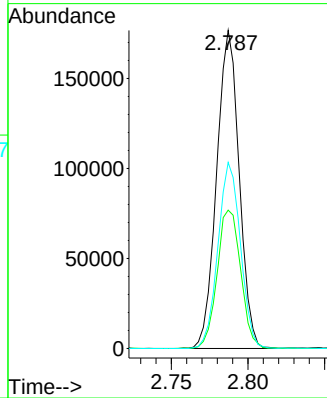
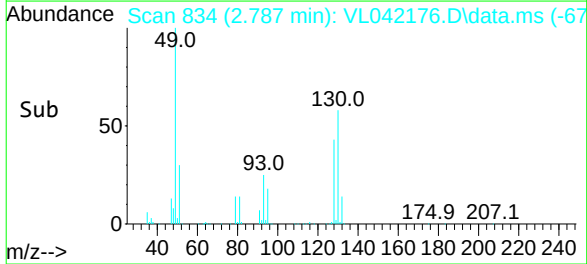
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



Tgt Ion: 49 Resp: 180740
Ion Ratio Lower Upper
49 100
128 45.6 22.9 68.5
130 58.5 28.8 86.4

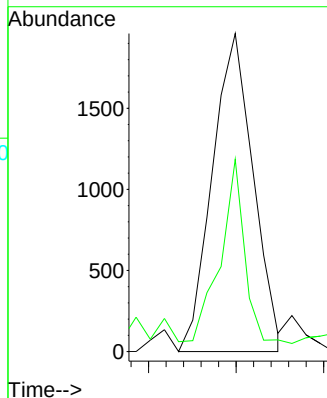
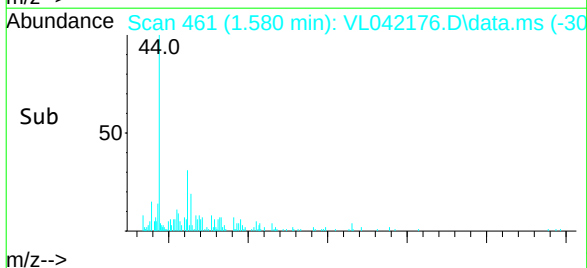
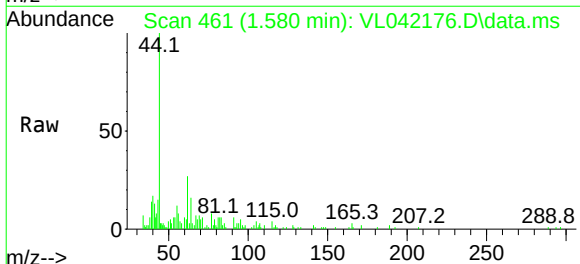
Manual Integrations
APPROVED

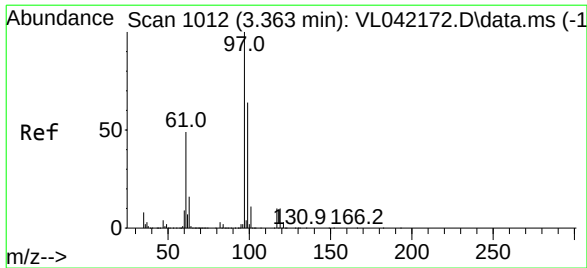
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#5
Vinyl Chloride
Concen: 0.115 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

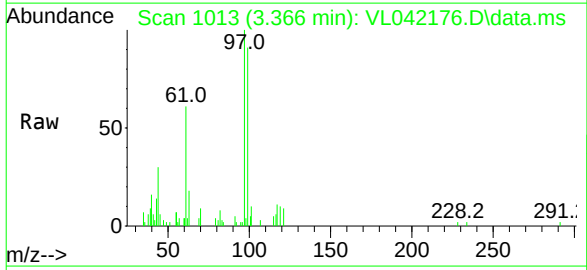
Tgt Ion: 62 Resp: 1274
Ion Ratio Lower Upper
62 100
64 66.4 26.6 40.0#





#32
1,1,1-Trichloroethane
Concen: 0.106 ppbv m
RT: 3.366 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

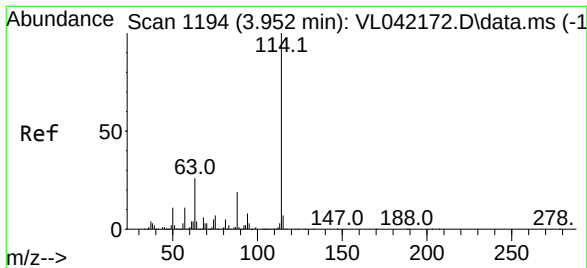
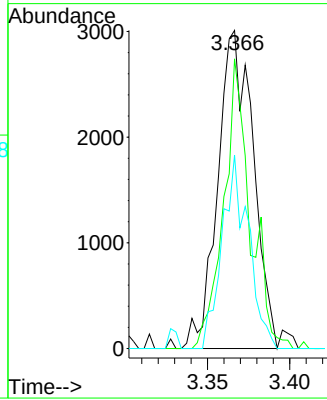
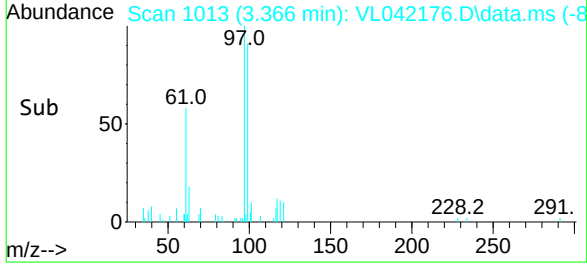
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



Tgt Ion: 97 Resp: 4509
Ion Ratio Lower Upper
97 100
99 68.6 51.5 77.3
61 45.4 38.7 58.1

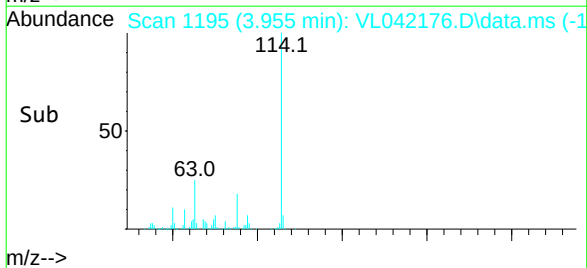
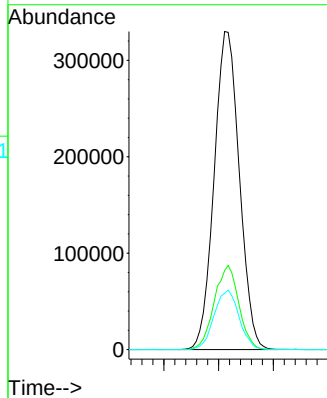
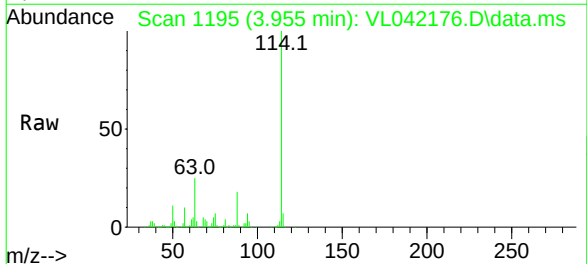
Manual Integrations
APPROVED

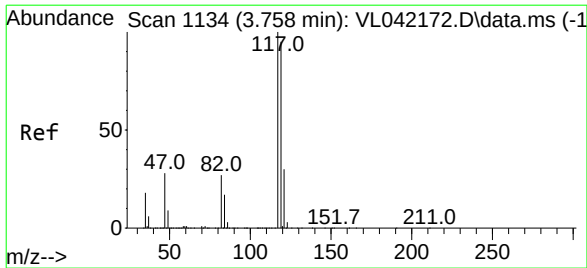
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

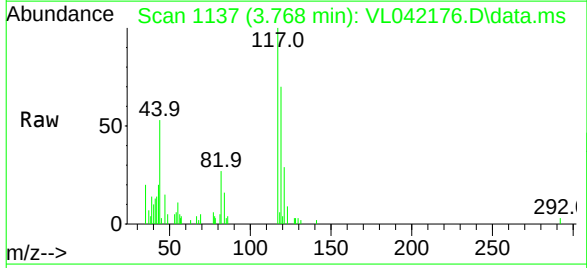
Tgt Ion:114 Resp: 528028
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.5 15.0 22.4





#35
Carbon Tetrachloride
Concen: 0.102 ppbv m
RT: 3.768 min Scan# 1134
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

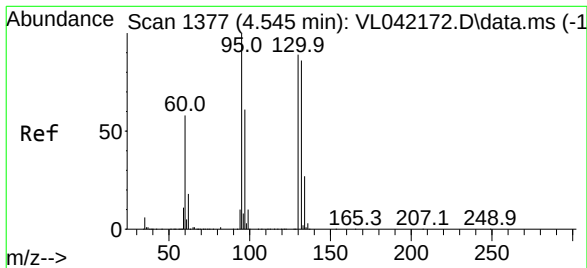
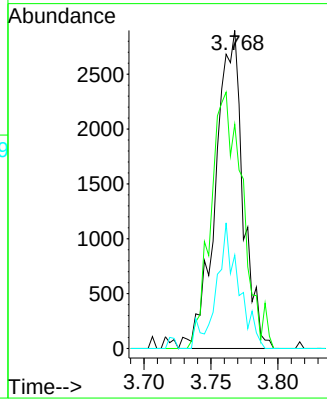
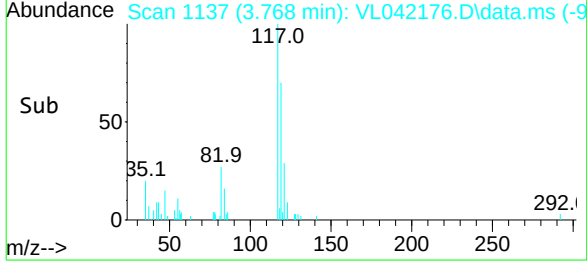
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.1



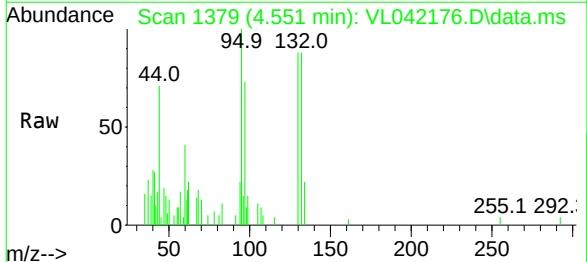
Tgt Ion:117 Resp: 4131
Ion Ratio Lower Upper
117 100
119 70.5 76.2 114.2#
121 29.4 24.2 36.4

Manual Integrations
APPROVED

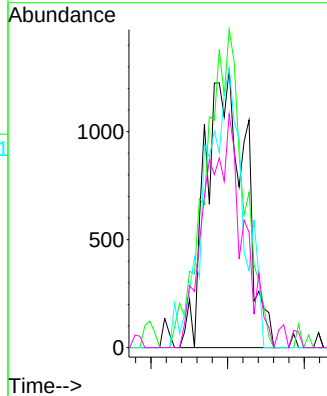
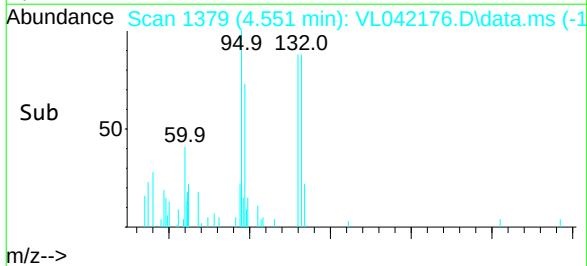
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

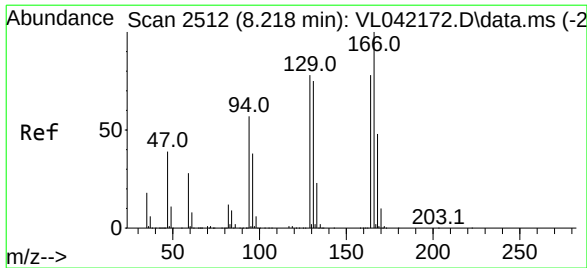


#38
Trichloroethene
Concen: 0.106 ppbv m
RT: 4.551 min Scan# 1379
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32



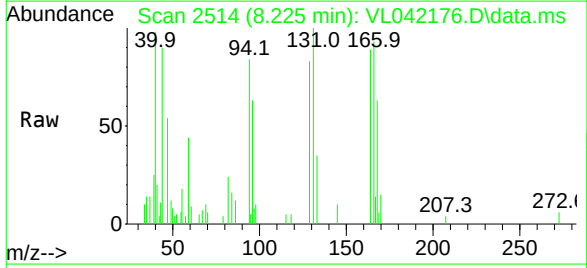
Tgt Ion:130 Resp: 2306
Ion Ratio Lower Upper
130 100
95 114.0 89.8 134.8
132 100.2 77.4 116.2
97 83.7 55.1 82.7#





#52
Tetrachloroethene
Concen: 0.091 ppbv m
RT: 8.225 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

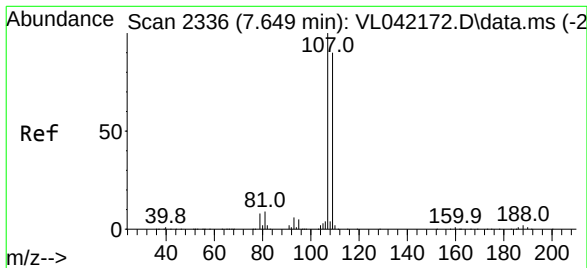
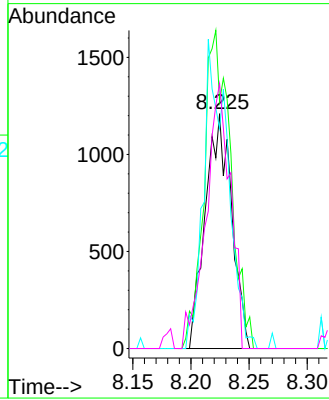
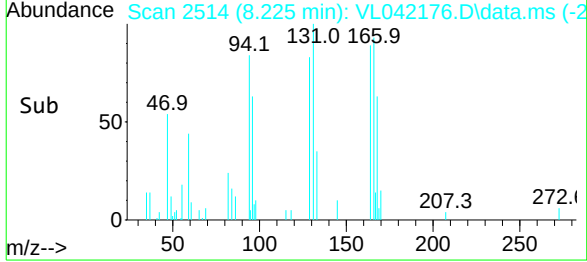
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1



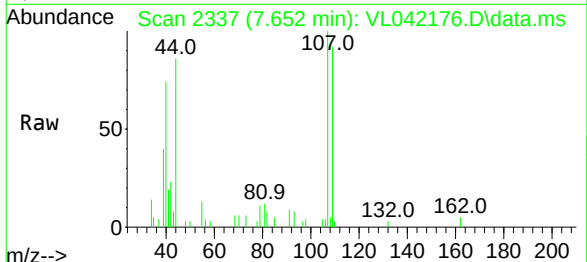
Tgt Ion:164 Resp: 1895
Ion Ratio Lower Upper
164 100
166 105.1 102.5 153.7
129 93.7 79.8 119.8
131 112.8 76.6 114.8

Manual Integrations
APPROVED

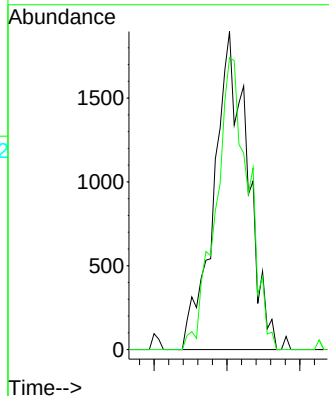
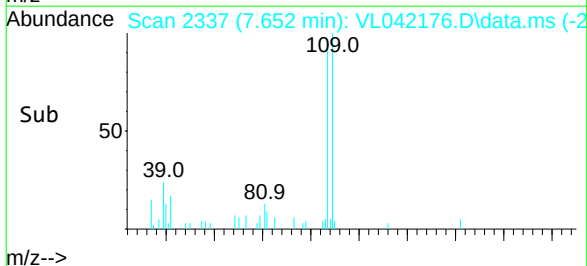
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

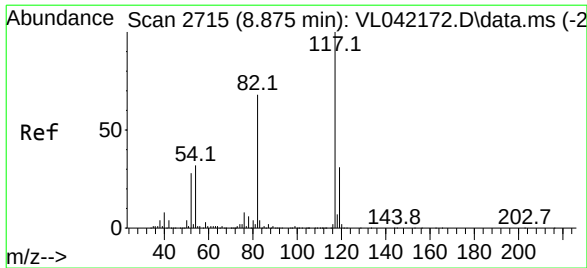


#54
1,2-Dibromoethane
Concen: 0.108 ppbv m
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32



Tgt Ion:107 Resp: 3033
Ion Ratio Lower Upper
107 100
109 91.8 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

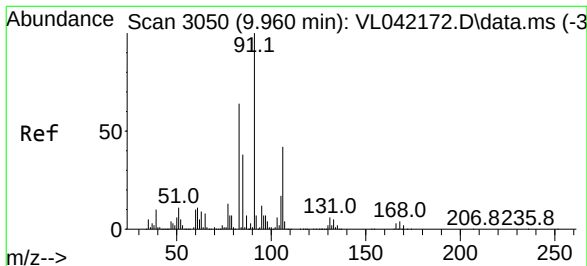
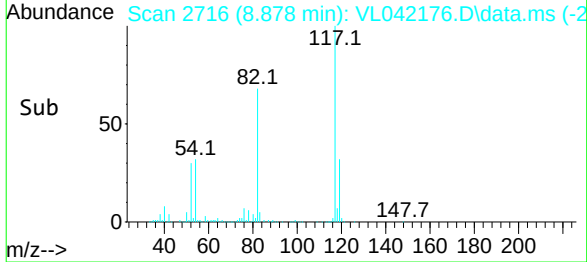
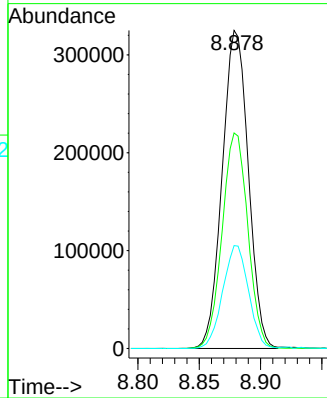
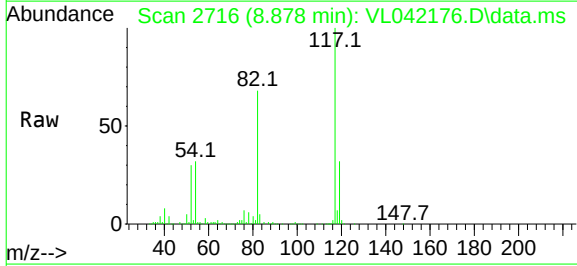
ClientSampleId :

VSTDIC0.1

Tgt Ion:	117	Resp:	481506
Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.8	83.6
119	32.3	25.5	38.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#63

1,1,2,2-Tetrachloroethane

Concen: 0.093 ppbv m

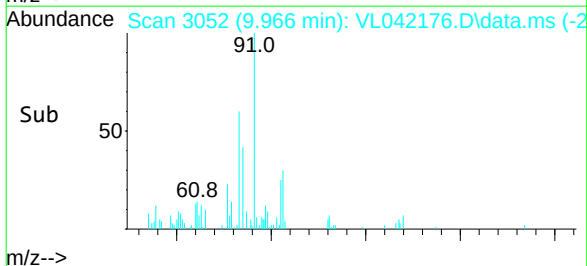
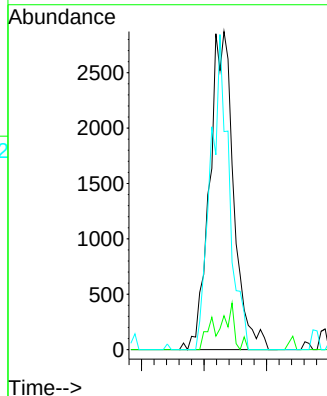
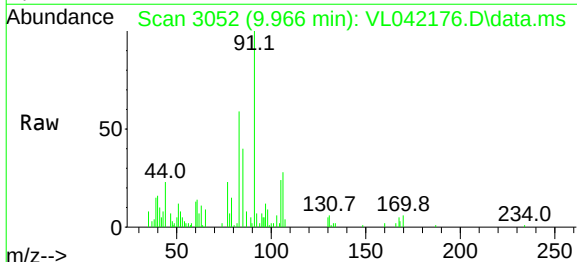
RT: 9.966 min Scan# 3052

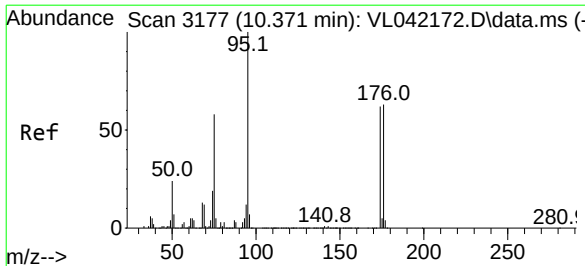
Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Tgt Ion:	83	Resp:	3852
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.4#
85	0.0	32.5	97.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.067 ppbv

RT: 10.374 min Scan# 3177

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

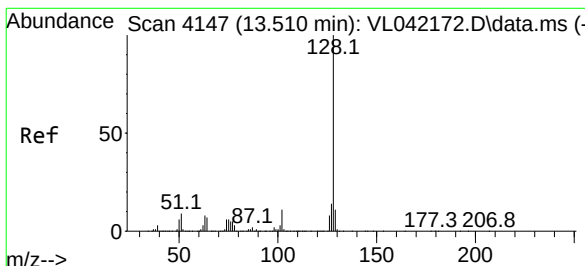
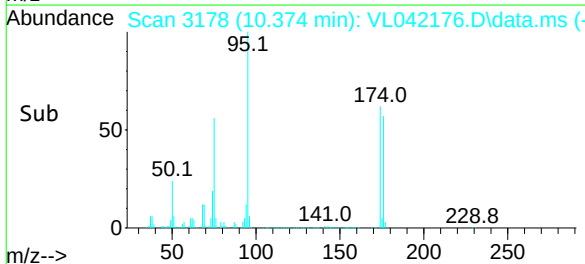
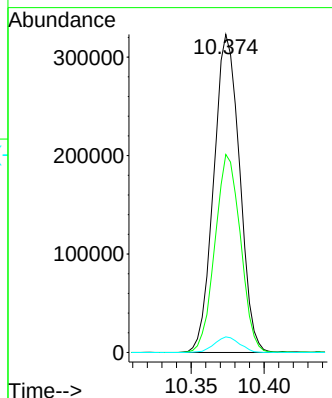
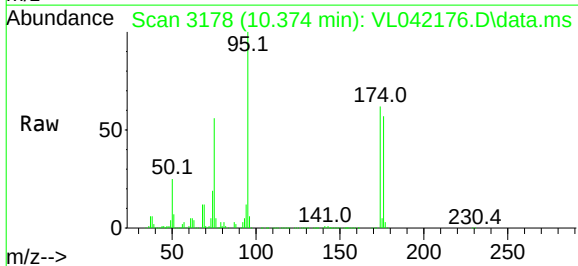
ClientSampleId :

VSTDIC0.1

Tgt Ion:	95	Resp:	398069
Ion	Ratio	Lower	Upper
95	100		
174	61.5	50.6	76.0
175	4.8	3.8	5.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#79

Naphthalene

Concen: 0.084 ppbv

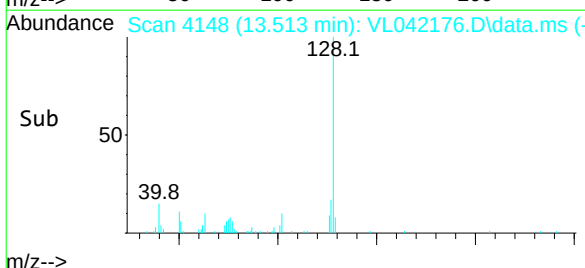
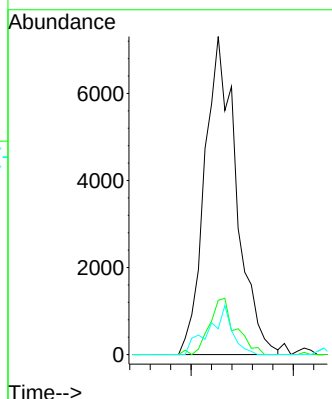
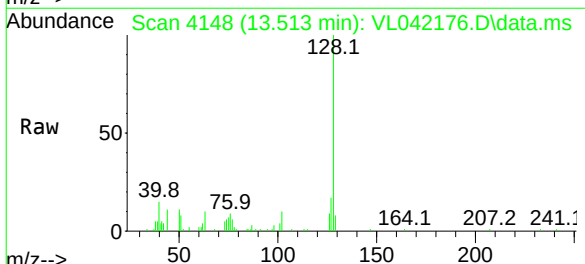
RT: 13.513 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Tgt Ion:	128	Resp:	7882
Ion	Ratio	Lower	Upper
128	100		
127	17.1	10.8	16.2#
129	8.1	9.0	13.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042177.D
 Acq On : 27 Mar 2025 11:03
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	178058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	475617	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	471m	0.043	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	1683m	0.040	ppbv	
35) Carbon Tetrachloride	3.758	117	1645m	0.042	ppbv	
38) Trichloroethene	4.541	130	712m	0.034	ppbv	
52) Tetrachloroethene	8.208	164	880m	0.044	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	1407m	0.034	ppbv	

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

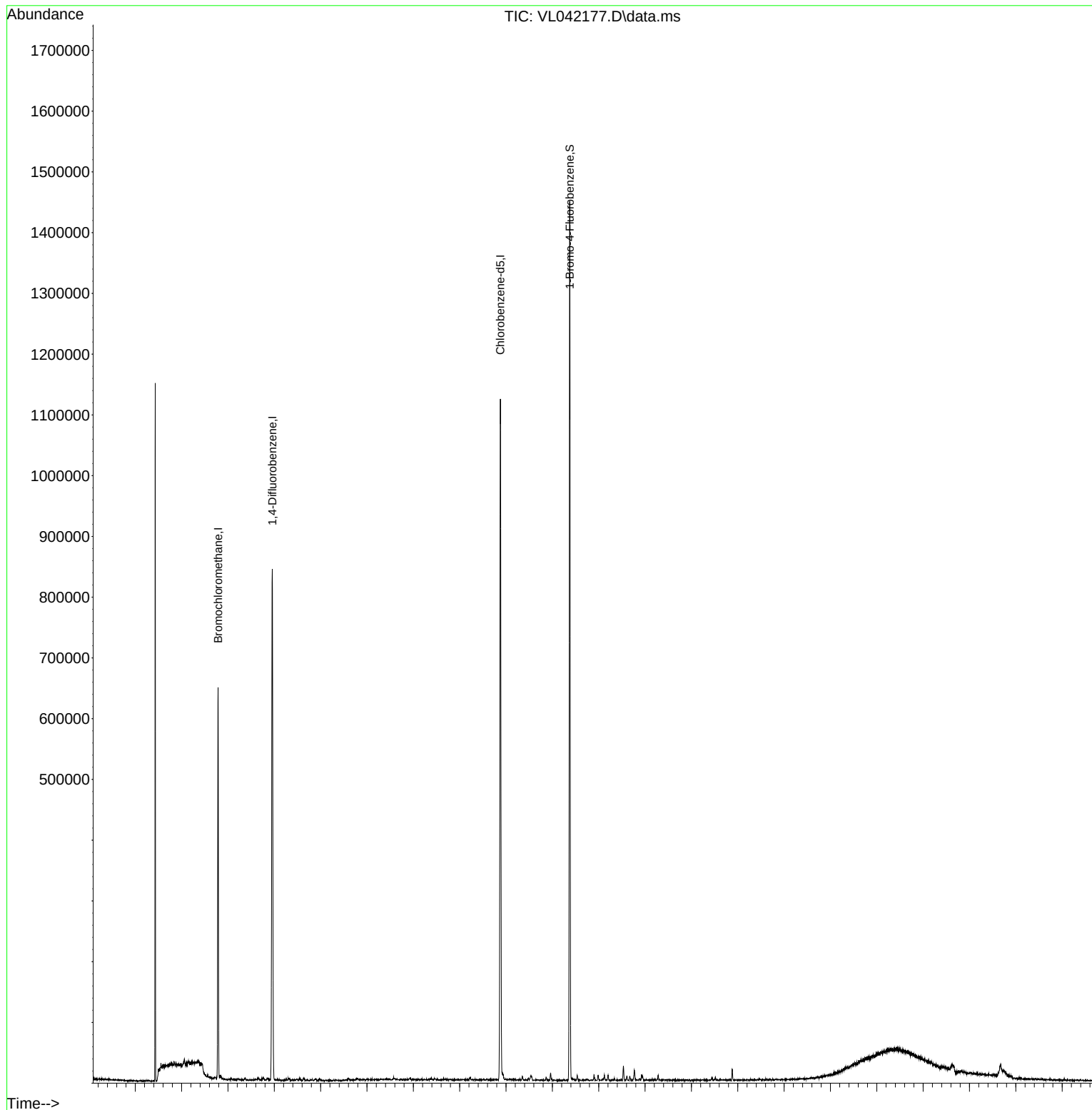
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Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

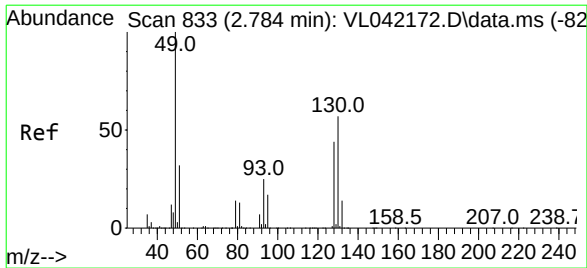
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

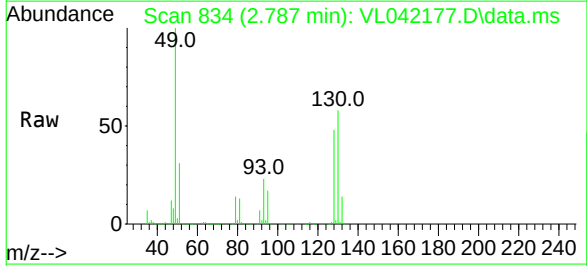
Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 83
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

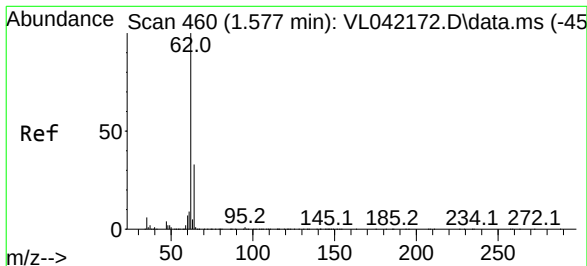
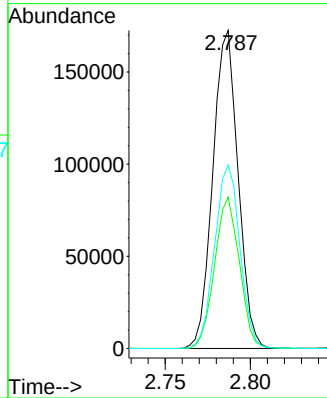
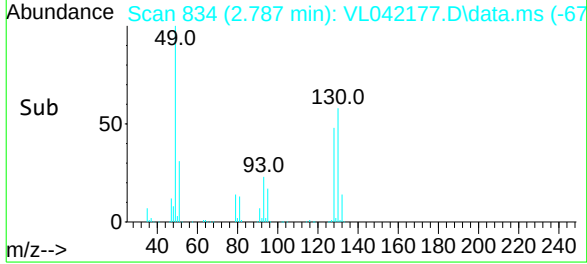
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion: 49 Resp: 178058
Ion Ratio Lower Upper
49 100
128 46.8 22.9 68.5
130 57.9 28.8 86.4

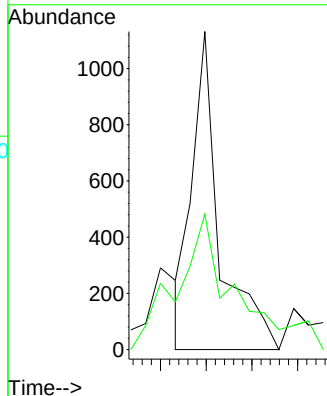
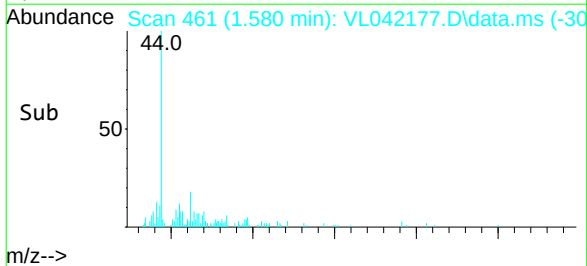
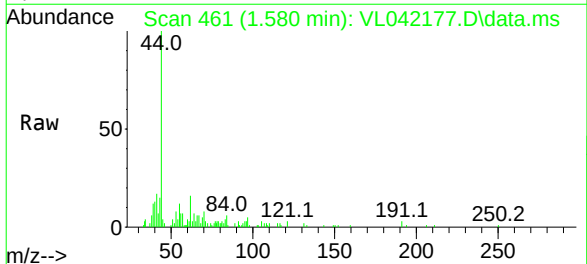
Manual Integrations
APPROVED

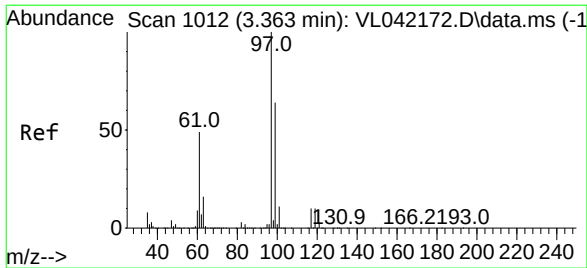
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#5
Vinyl Chloride
Concen: 0.043 ppbv m
RT: 1.580 min Scan# 461
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

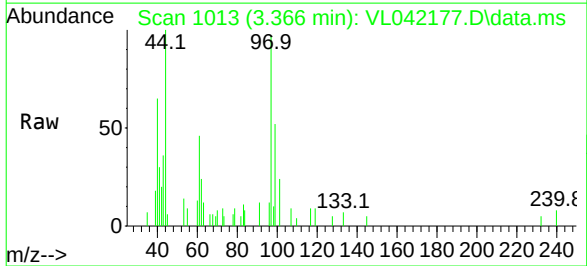
Tgt Ion: 62 Resp: 471
Ion Ratio Lower Upper
62 100
64 42.6 26.6 40.0#





#32
1,1,1-Trichloroethane
Concen: 0.040 ppbv m
RT: 3.366 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

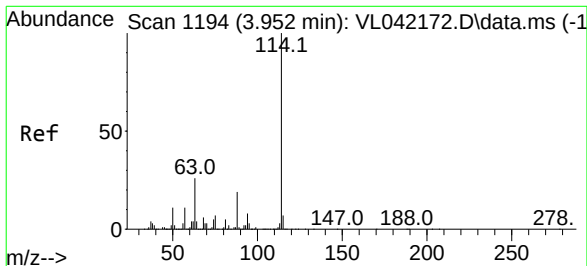
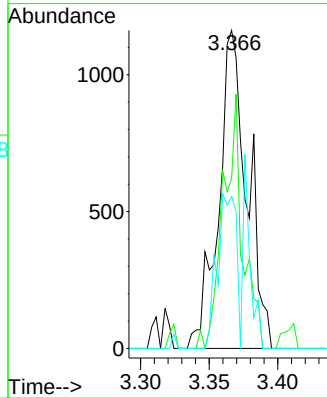
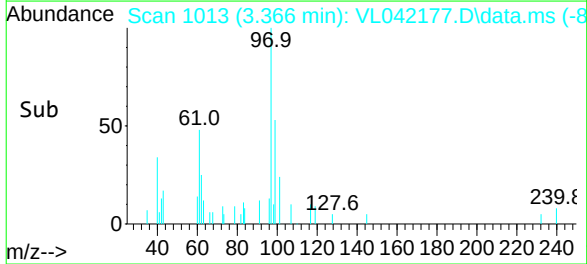
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion: 97 Resp: 1683
Ion Ratio Lower Upper
97 100
99 3.8 51.5 77.3#
61 2.1 38.7 58.1#

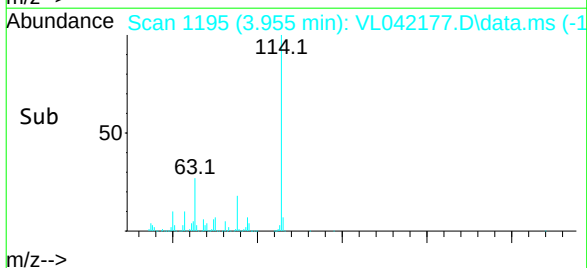
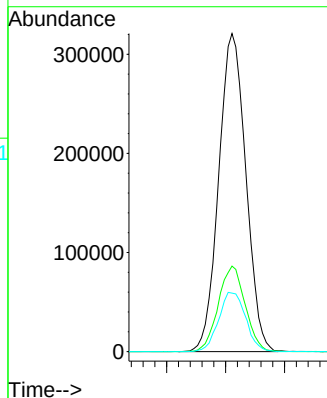
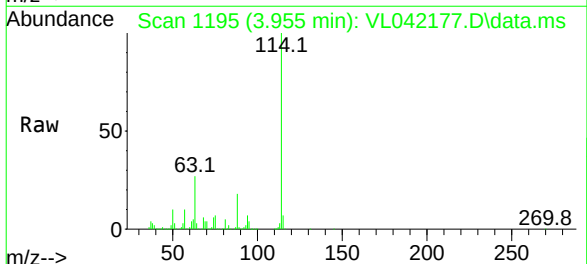
Manual Integrations
APPROVED

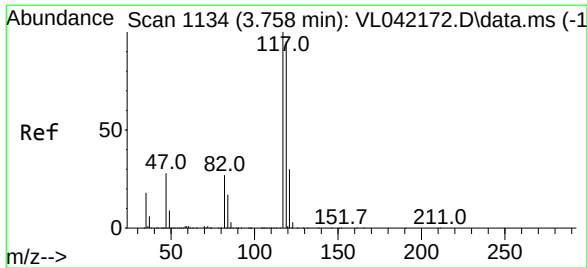
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

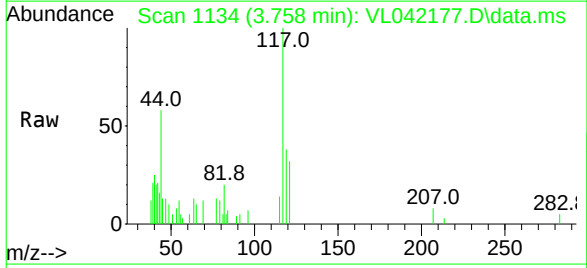
Tgt Ion:114 Resp: 512915
Ion Ratio Lower Upper
114 100
63 26.6 20.7 31.1
88 18.6 15.0 22.4





#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

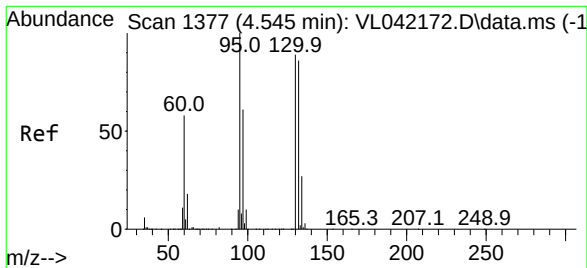
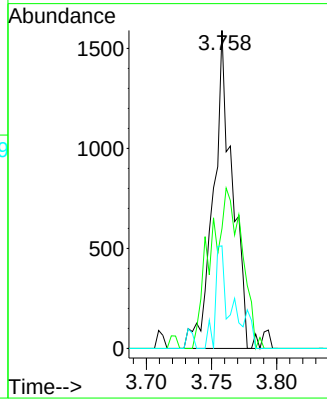
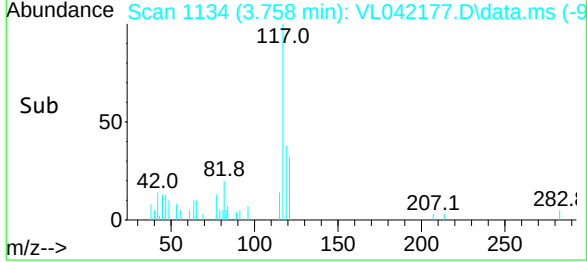
Instrument : MSVOA_L
ClientSampleId : VSTDICC0.03



Tgt Ion:117 Resp: 1645
Ion Ratio Lower Upper
117 100
119 37.7 76.2 114.2#
121 32.3 24.2 36.4

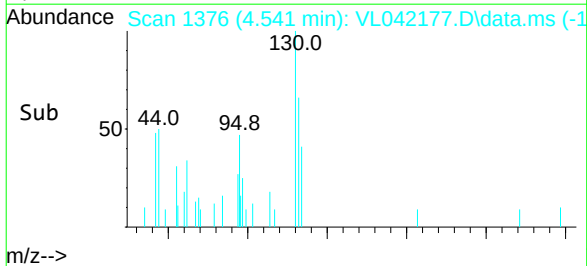
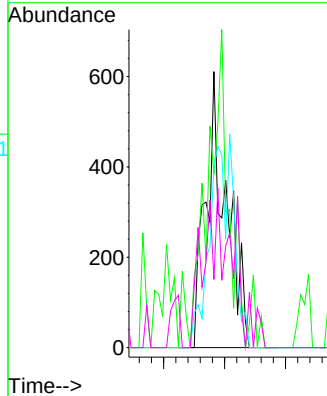
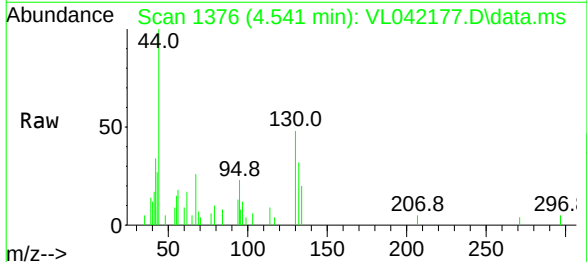
Manual Integrations
APPROVED

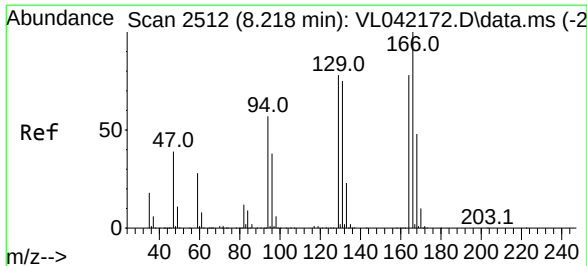
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 0.034 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

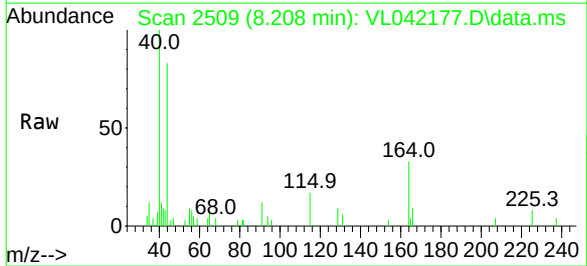
Tgt Ion:130 Resp: 712
Ion Ratio Lower Upper
130 100
95 47.0 89.8 134.8#
132 65.6 77.4 116.2#
97 24.7 55.1 82.7#





#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 8.208 min Scan# 2512
Delta R.T. -0.010 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

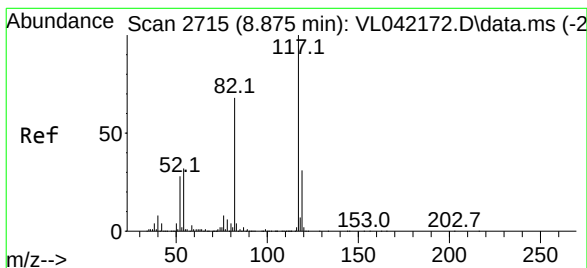
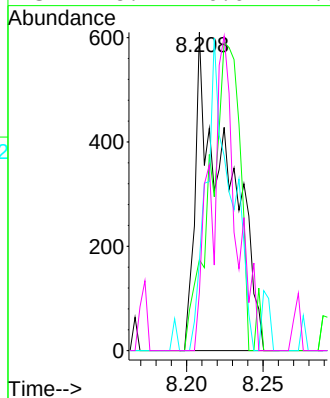
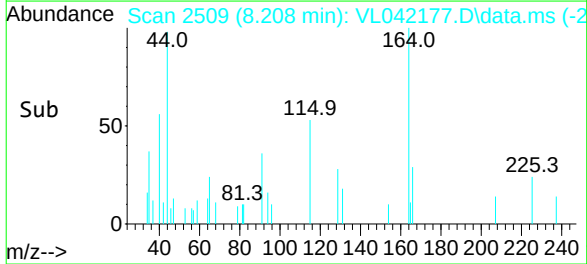
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.03



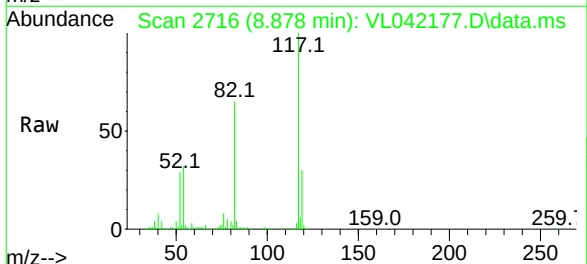
Tgt Ion	Ratio	Lower	Upper
164	100		
166	28.5	102.5	153.7#
129	27.7	79.8	119.8#
131	18.2	76.6	114.8#

Manual Integrations
APPROVED

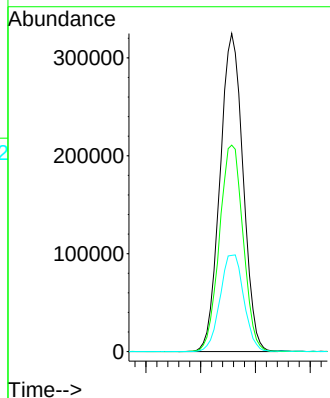
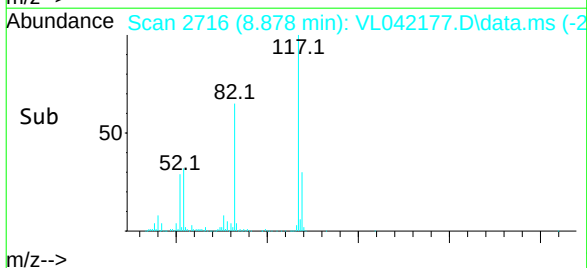
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

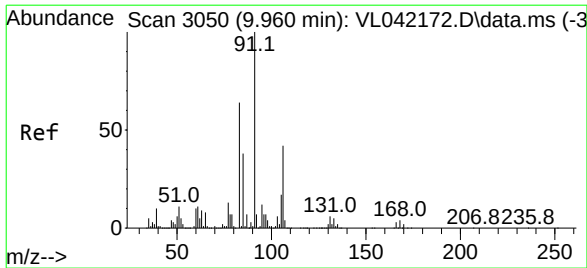


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03



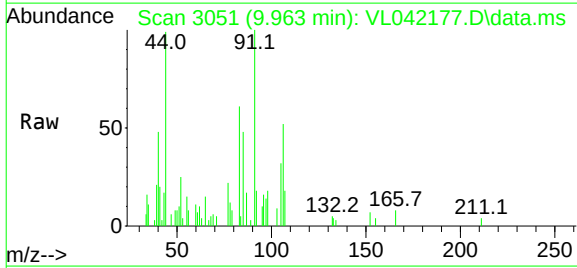
Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.7	55.8	83.6
119	31.5	25.5	38.3





#63
1,1,2,2-Tetrachloroethane
Concen: 0.034 ppbv m
RT: 9.963 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

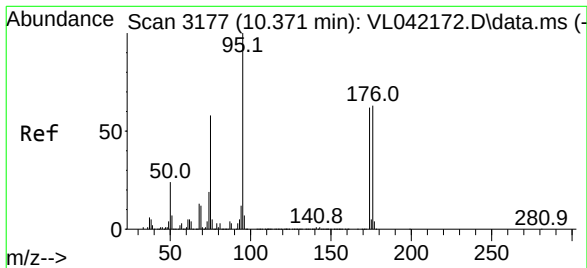
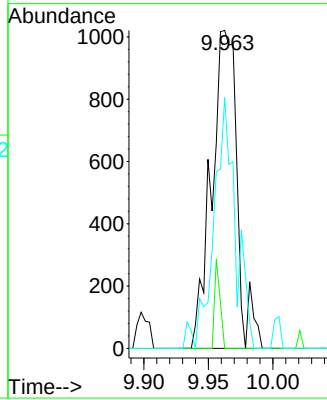
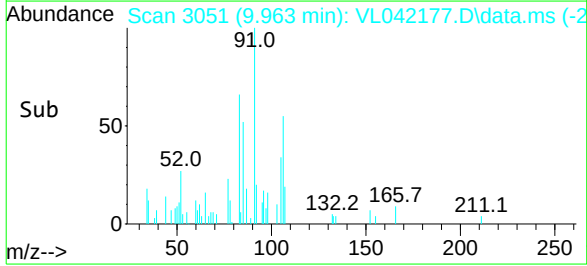
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion: 83 Resp: 1407
Ion Ratio Lower Upper
83 100
131 6.0 4.8 14.4
85 67.2 32.5 97.5

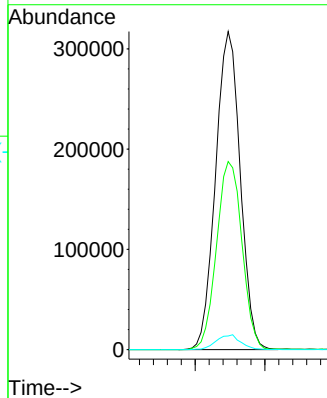
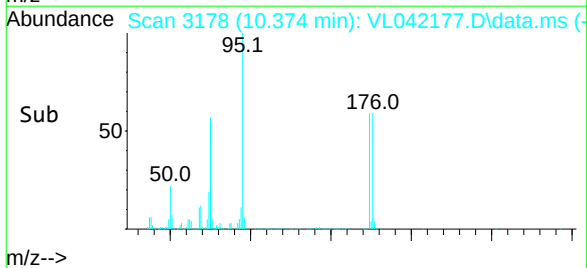
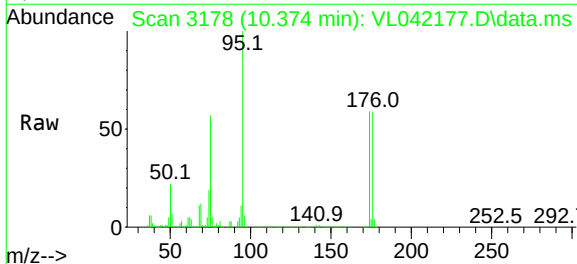
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.983 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042177.D
Acq: 27 Mar 2025 11:03

Tgt Ion: 95 Resp: 389935
Ion Ratio Lower Upper
95 100
174 61.2 50.6 76.0
175 4.6 3.8 5.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:37:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	173372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	499360	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473077	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	387777	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	358962	14.023	ppbv	99
3) Chlorodifluoromethane	1.473	51	366164	14.002	ppbv	98
4) Chloromethane	1.531	50	148133	14.160	ppbv	98
5) Vinyl Chloride	1.576	62	141938	13.304	ppbv	97
6) Bromomethane	1.667	94	65113	13.734	ppbv	99
7) Chloroethane	1.703	64	58820	14.007	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	314834	14.442	ppbv	98
9) Propene	1.482	41	163799	13.902	ppbv	95
10) Heptane	4.972	43	446949	14.019	ppbv	99
11) Trichlorofluoromethane	1.874	101	349967	14.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	295217	14.419	ppbv	99
13) Ethanol	1.719	45	7382	8.001	ppbv	92
14) Bromoethene	1.780	108	106436	13.571	ppbv	98
15) Acetone	1.832	43	296254	12.218	ppbv	98
16) 1,3-Butadiene	1.605	39	150122	13.766	ppbv	100
17) tert-Butyl alcohol	2.039	59	416362	13.787	ppbv	99
18) 1,1-Dichloroethene	2.029	96	131720	13.762	ppbv	99
19) Isopropyl Alcohol	1.884	45	179117	13.093	ppbv	100
20) Methylene Chloride	2.059	84	113183	12.533	ppbv	95
21) Allyl Chloride	2.094	41	239440	14.002	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	149455	13.362	ppbv	98
23) Vinyl Acetate	2.460	43	138419	13.736	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	298760	14.570	ppbv	99
25) Ethyl Acetate	2.832	43	871882	13.855	ppbv	100
26) Hexane	2.822	57	344636	14.178	ppbv	98
27) Carbon Disulfide	2.146	76	370022	14.196	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	216463	14.303	ppbv	95
29) Chloroform	2.845	83	508614	14.297	ppbv	100
30) Cyclohexane	3.852	84	296458	14.040	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	351945	14.262	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	547329	13.448	ppbv	99
34) 2-Butanone	2.554	43	497020	13.726	ppbv	99
35) Carbon Tetrachloride	3.758	117	543385	14.140	ppbv	100
36) Benzene	3.651	78	699549	14.131	ppbv	98
37) 1,2-Dichloroethane	3.214	62	416544	14.697	ppbv	99
38) Trichloroethene	4.541	130	283430	13.715	ppbv	98
39) 1,2-Dichloropropane	4.308	63	257891	14.304	ppbv	99
40) 1,4-Dioxane	4.577	88	124925	13.354	ppbv #	91
41) Tetrahydrofuran	3.049	42	294634	14.301	ppbv	100
42) Bromodichloromethane	4.483	83	587772	15.043	ppbv	99
43) Methyl Methacrylate	4.874	69	295300	14.130	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	1180275	14.108	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	329360	14.649	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
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Quant Time: Mar 28 01:37:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

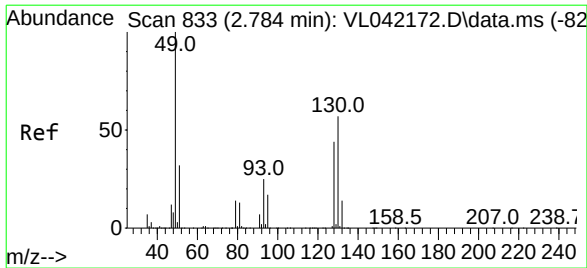
QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

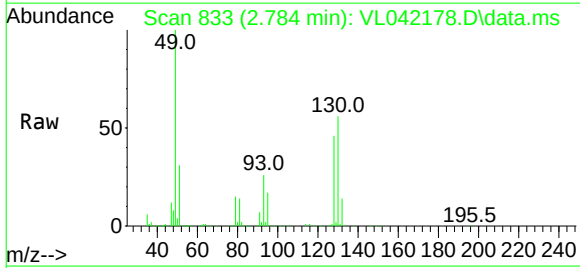
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv	98
48) Dibromochloromethane	7.383	129	482431	14.936	ppbv	100
49) Bromoform	9.480	173	427143	14.730	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	755146	13.155	ppbv	99
51) 2-Hexanone	7.431	43	619419	13.005	ppbv #	99
52) Tetrachloroethene	8.221	164	258356	13.159	ppbv	95
53) Toluene	6.926	91	829648	14.137	ppbv	100
54) 1,2-Dibromoethane	7.645	107	381823	14.359	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.920	131	365410	14.032	ppbv	99
57) Chlorobenzene	8.917	112	618201	13.777	ppbv	100
58) Ethyl Benzene	9.351	91	1167096	13.889	ppbv	97
59) m/p-Xylene	9.548	91	1857561m	27.651	ppbv	
60) o-Xylene	9.962	91	913234	13.577	ppbv	99
61) Styrene	9.865	104	474195	14.250	ppbv	99
62) Isopropylbenzene	10.535	105	1362416	13.544	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	551386	13.491	ppbv	99
64) n-propylbenzene	10.985	120	356118	13.753	ppbv	94
65) tert-Butylbenzene	11.529	119	1200149	12.901	ppbv	98
66) Benzyl Chloride	11.613	91	134397	13.615	ppbv	100
67) sec-Butylbenzene	11.765	105	1643629	12.711	ppbv	99
69) p-Isopropyltoluene	11.924	119	1437016	12.906	ppbv	98
70) n-Butylbenzene	12.280	91	1477443	12.975	ppbv	99
71) 2-Chlorotoluene	10.898	91	1071432	13.724	ppbv	99
72) 4-Ethyltoluene	11.121	105	1136415	13.569	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	979783	13.395	ppbv	99
74) 1,2,4-Trimethylbenzene	11.535	105	1048874	12.447	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	626015	13.545	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	628694	13.668	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	602844	13.396	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	556392	12.147	ppbv	99
79) Naphthalene	13.513	128	1258479	13.653	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	718900	16.018	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	598416	14.075	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

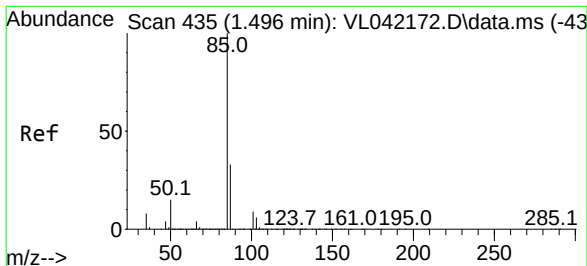
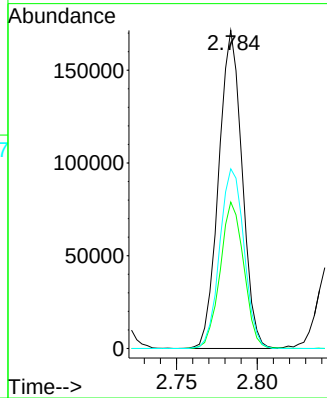
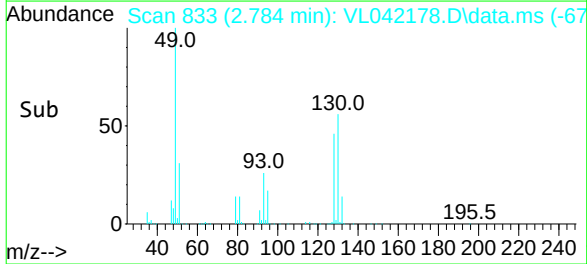
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 49 Resp: 173372
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 58.7 28.8 86.4

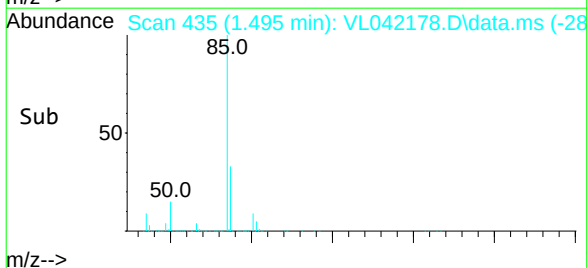
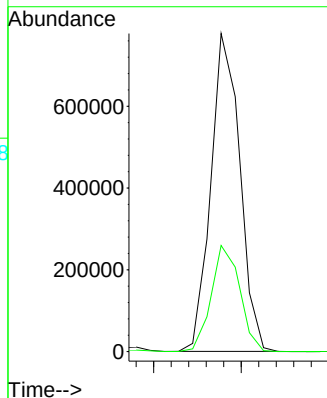
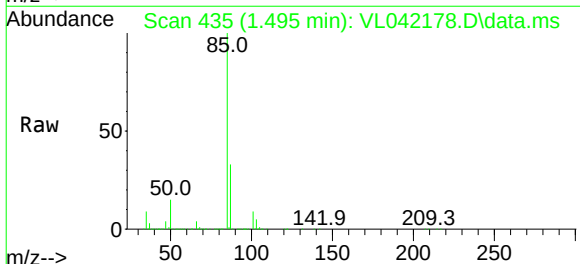
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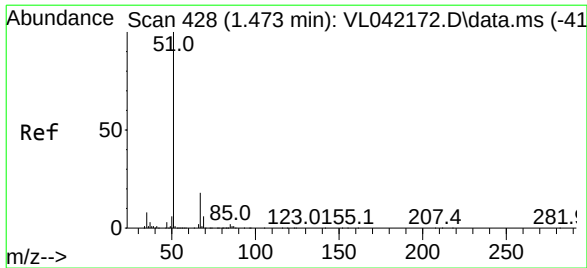
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#2
Dichlorodifluoromethane
Concen: 14.023 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 85 Resp: 358962
Ion Ratio Lower Upper
85 100
87 33.4 26.1 39.1





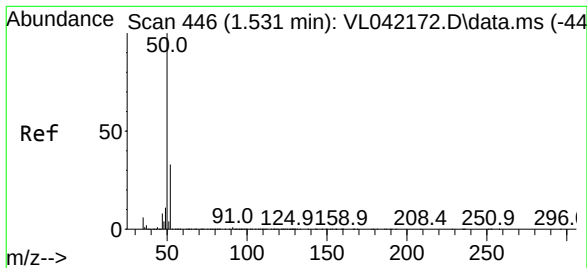
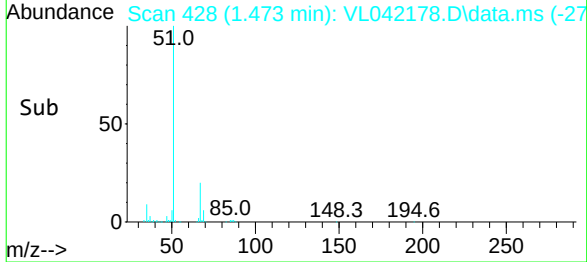
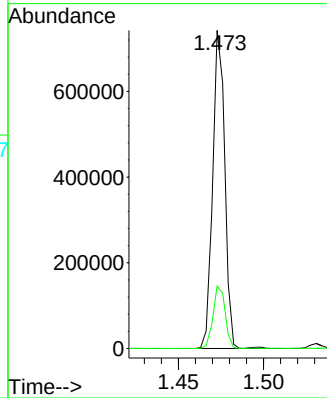
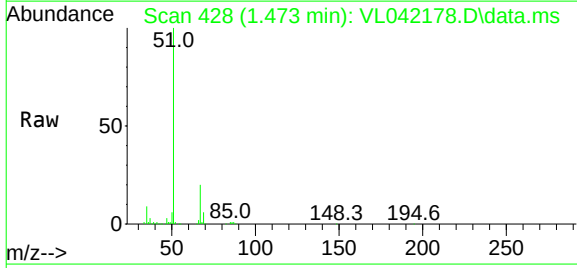
#3
Chlorodifluoromethane
Concen: 14.002 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 51 Resp: 366164
Ion Ratio Lower Upper
51 100
67 19.8 15.0 22.6

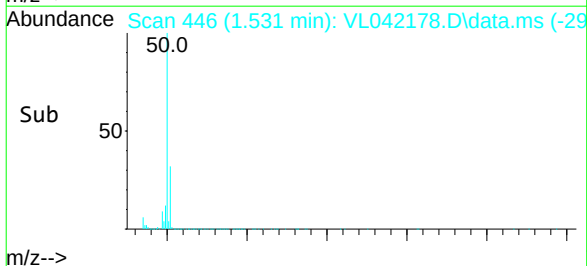
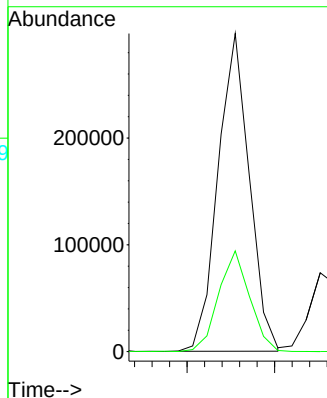
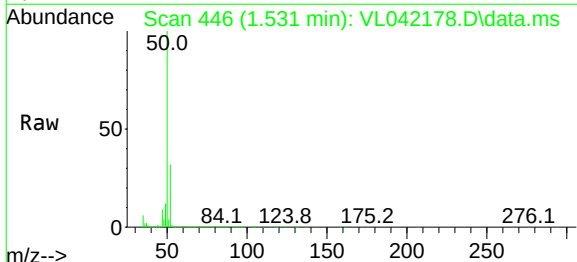
Manual Integrations
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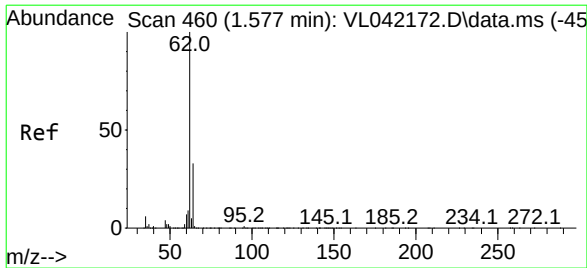
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 14.160 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 50 Resp: 148133
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1





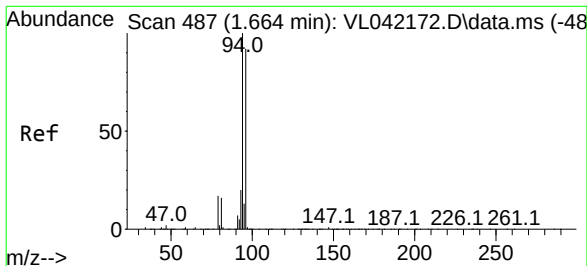
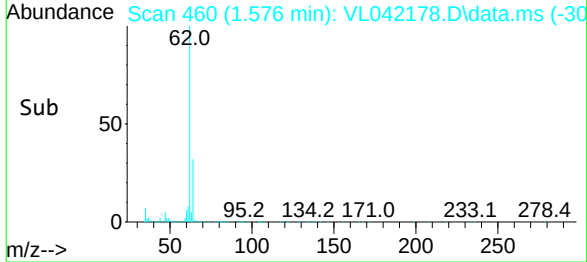
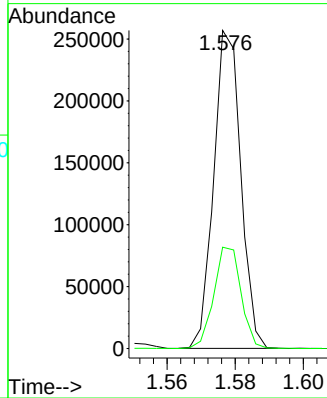
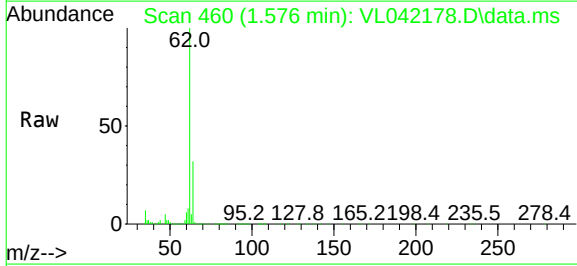
#5
 Vinyl Chloride
 Concen: 13.304 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Tgt Ion: 62 Resp: 141938
 Ion Ratio Lower Upper
 62 100
 64 31.9 26.6 40.0

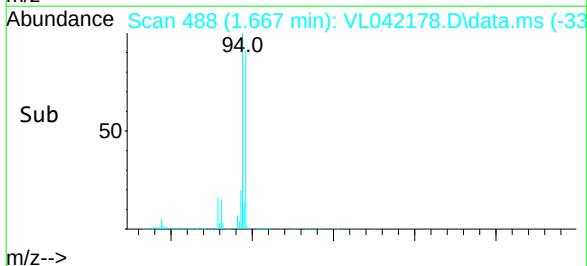
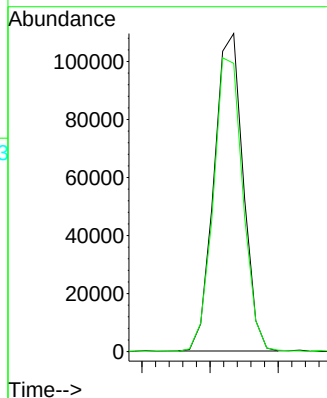
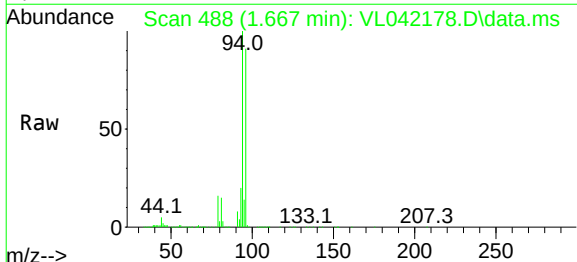
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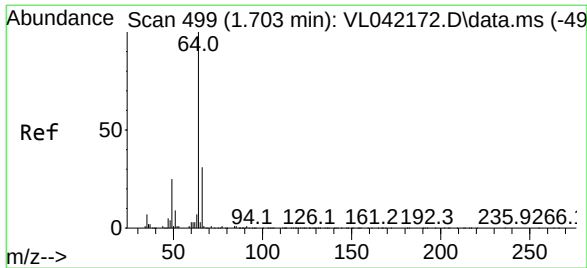
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 13.734 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Tgt Ion: 94 Resp: 65113
 Ion Ratio Lower Upper
 94 100
 96 90.7 73.1 109.7





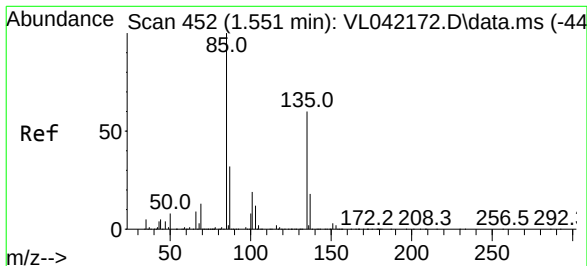
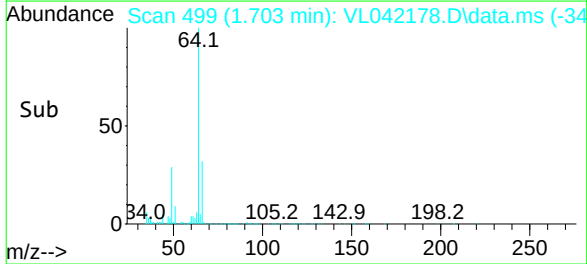
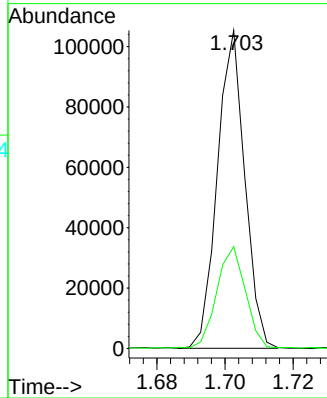
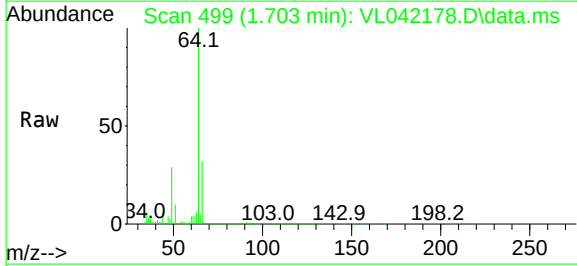
#7
Chloroethane
Concen: 14.007 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 64 Resp: 58820
Ion Ratio Lower Upper
64 100
66 32.0 25.2 37.8

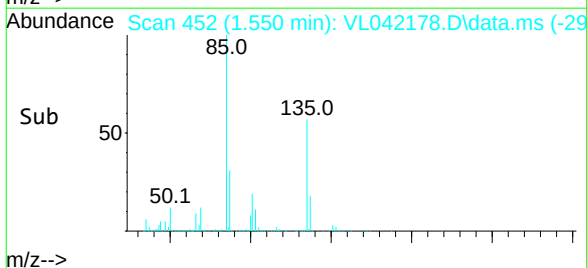
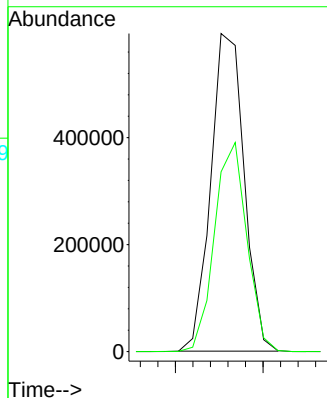
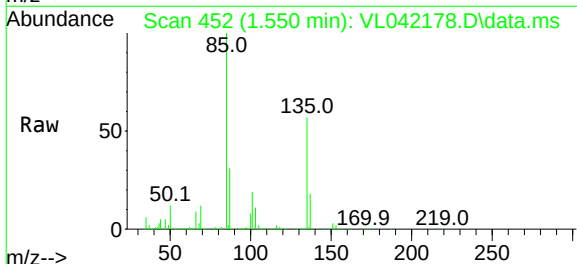
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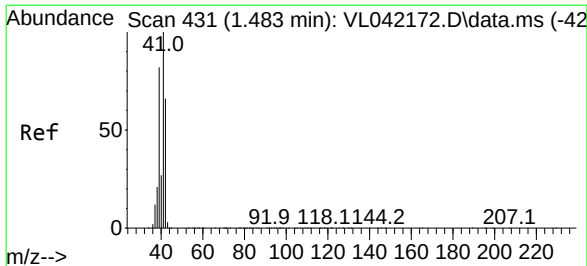
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 14.442 ppbv
RT: 1.550 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

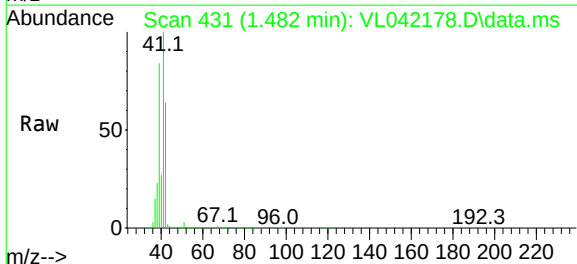
Tgt Ion: 85 Resp: 314834
Ion Ratio Lower Upper
85 100
135 63.8 52.4 78.6





#9
 Propene
 Concen: 13.902 ppbv
 RT: 1.482 min Scan# 431
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

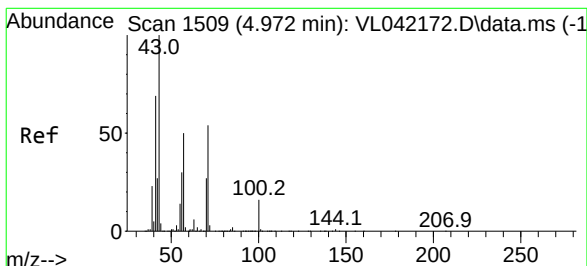
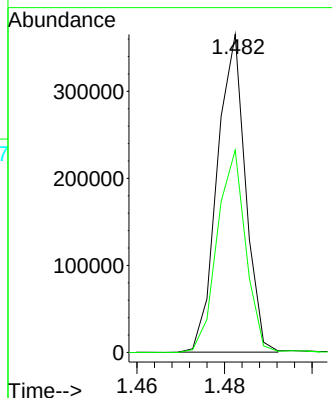
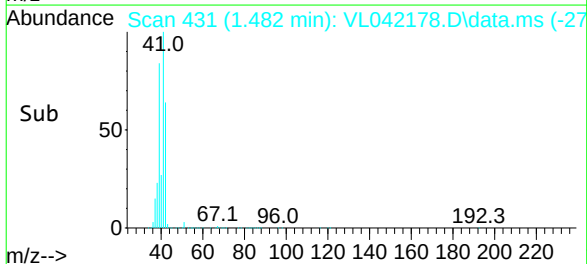
Instrument : MSVOA_L
 ClientSampleId : VSTDIC015



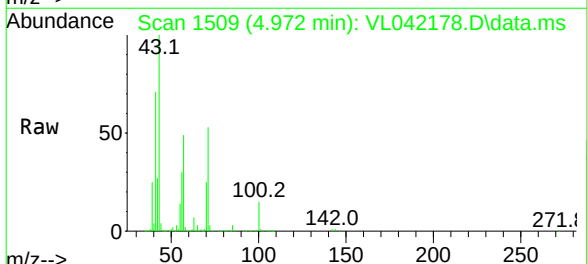
Tgt Ion: 41 Resp: 163799
 Ion Ratio Lower Upper
 41 100
 42 65.3 55.4 83.2

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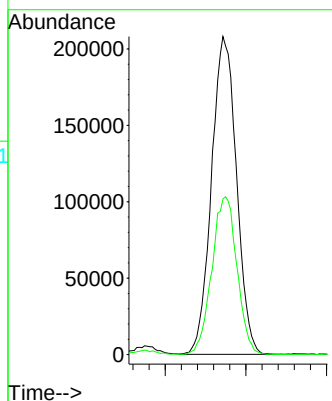
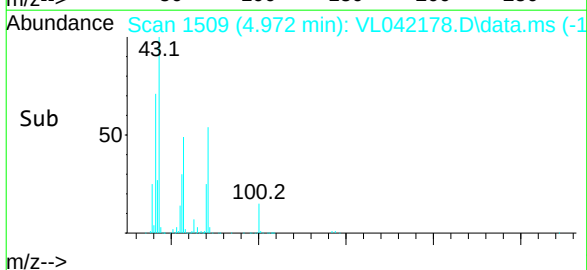
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

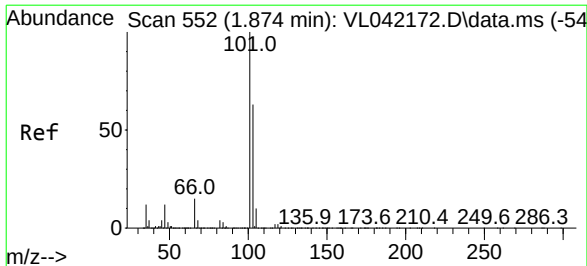


#10
 Heptane
 Concen: 14.019 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36



Tgt Ion: 43 Resp: 446949
 Ion Ratio Lower Upper
 43 100
 57 49.9 39.4 59.2





#11

Trichlorofluoromethane

Concen: 14.050 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:101 Resp: 349967

Ion Ratio Lower Upper

101 100

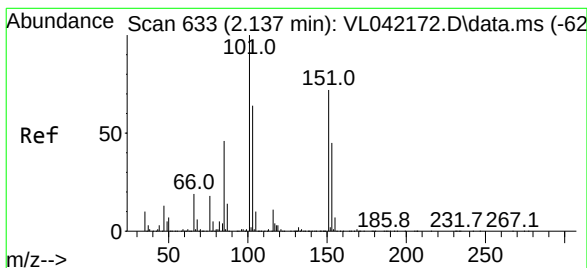
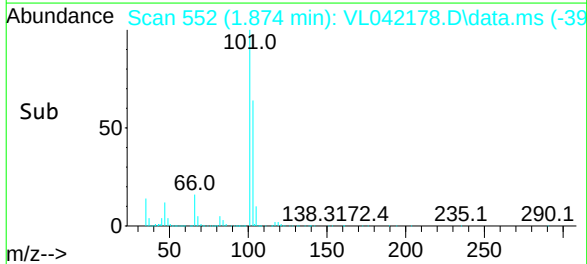
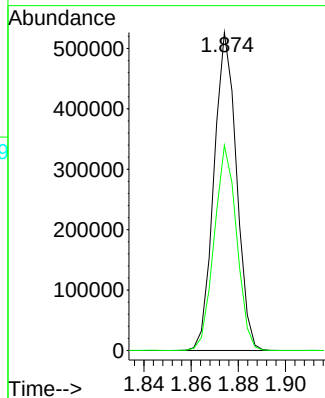
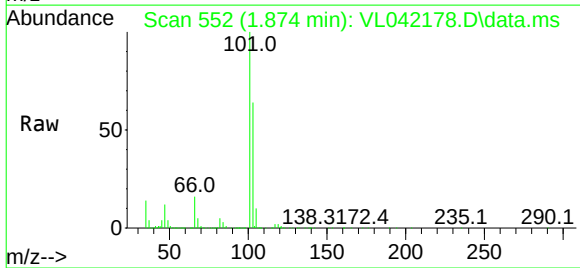
103 64.5 50.2 75.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 14.419 ppbv

RT: 2.136 min Scan# 633

Delta R.T. -0.000 min

Lab File: VL042178.D

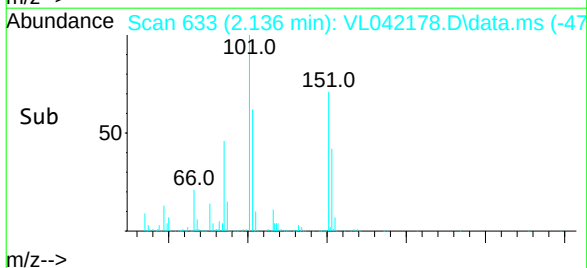
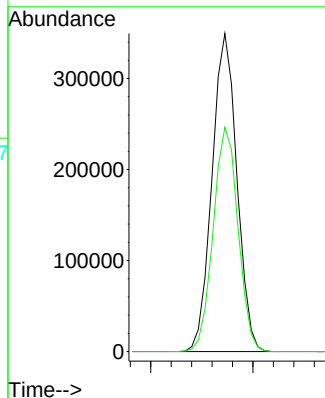
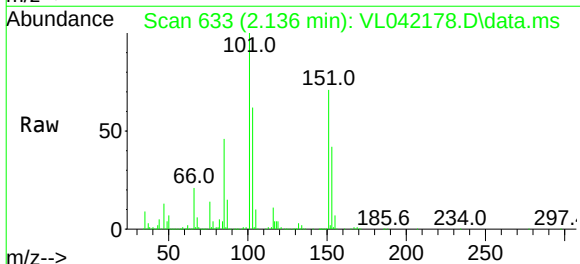
Acq: 27 Mar 2025 11:36

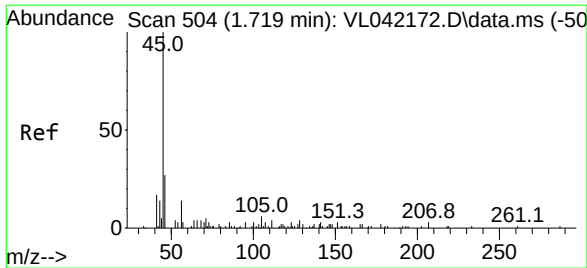
Tgt Ion:101 Resp: 295217

Ion Ratio Lower Upper

101 100

151 70.4 57.1 85.7





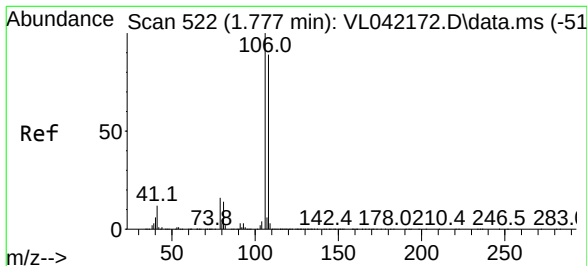
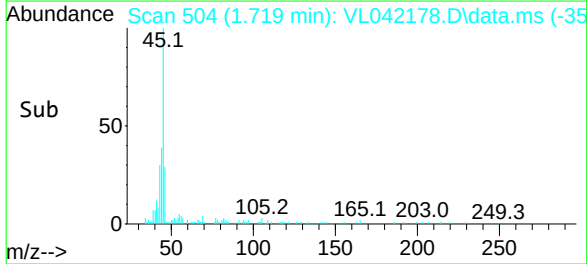
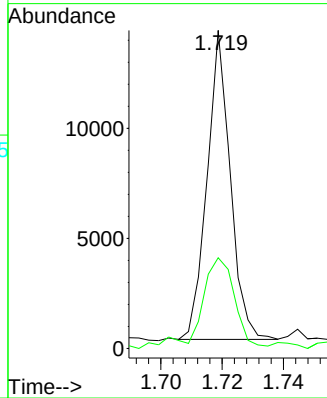
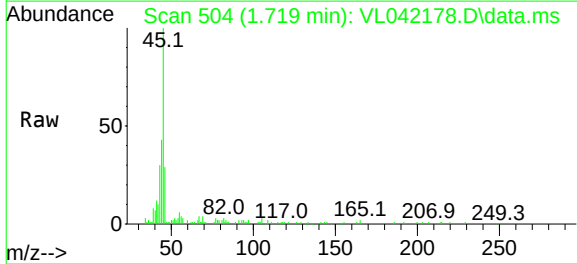
#13
Ethanol
Concen: 8.001 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument : MSVOA_L
ClientSampleId : VSTDIC015

Tgt Ion: 45 Resp: 7382
Ion Ratio Lower Upper
45 100
46 44.6 20.2 80.8

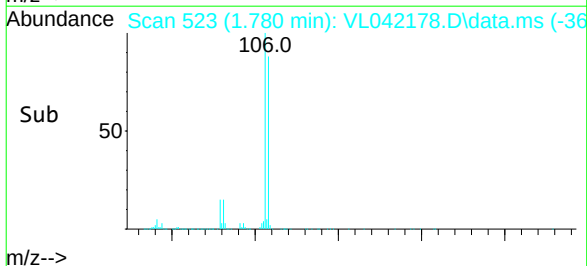
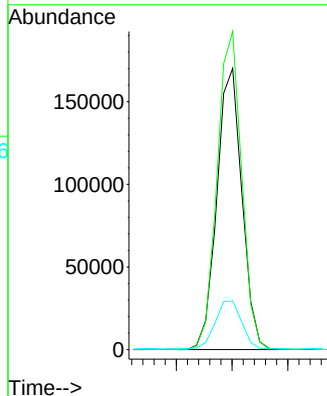
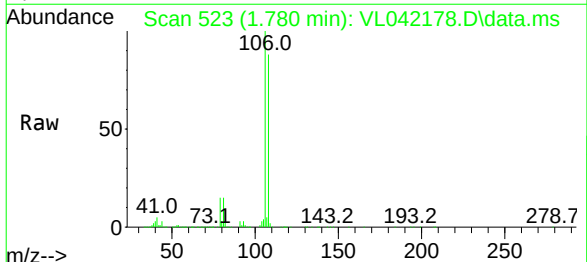
Manual Integrations
APPROVED

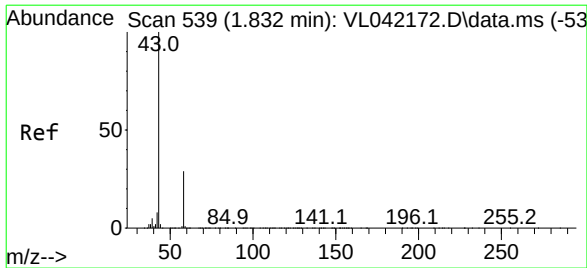
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 13.571 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:108 Resp: 106436
Ion Ratio Lower Upper
108 100
106 110.9 86.8 130.2
79 18.8 15.0 22.6





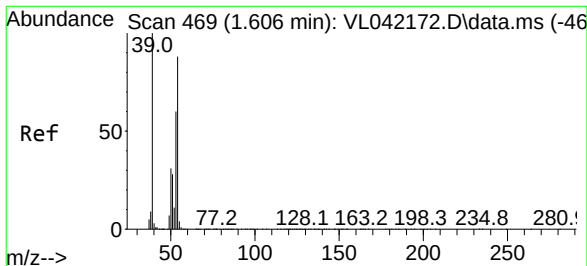
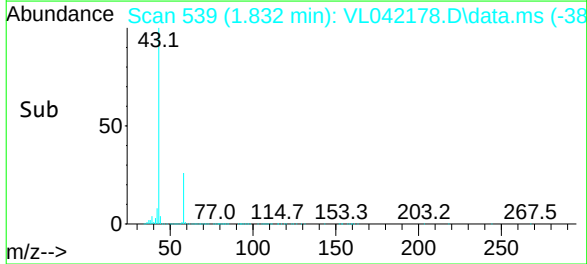
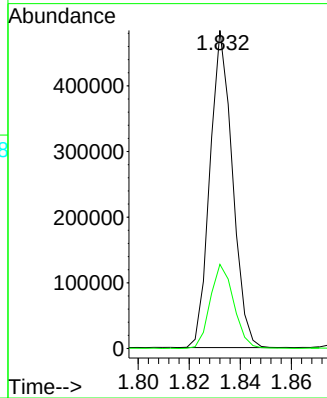
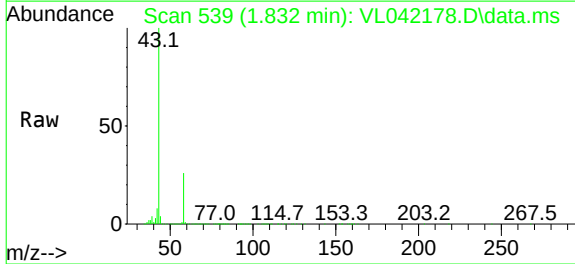
#15
Acetone
Concen: 12.218 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 43 Resp: 296254
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8

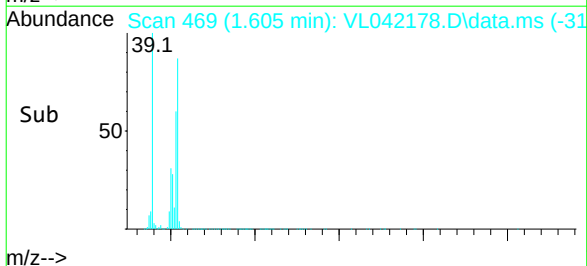
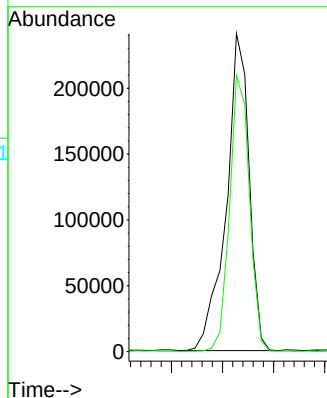
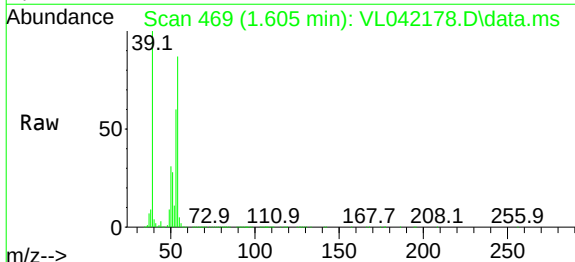
Manual Integrations
APPROVED

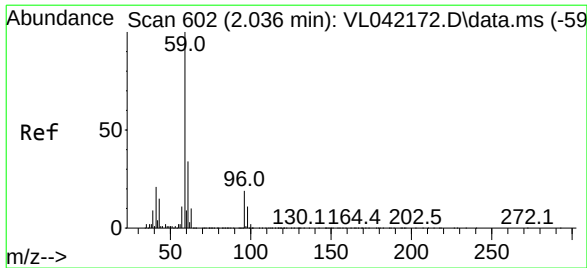
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 13.766 ppbv
RT: 1.605 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 39 Resp: 150122
Ion Ratio Lower Upper
39 100
54 76.3 60.7 91.1





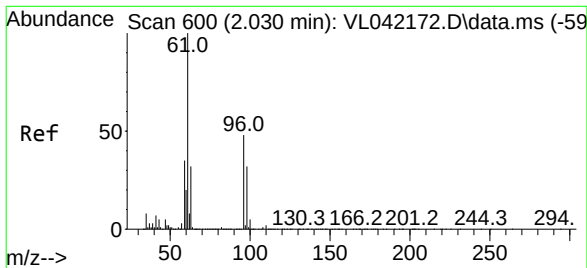
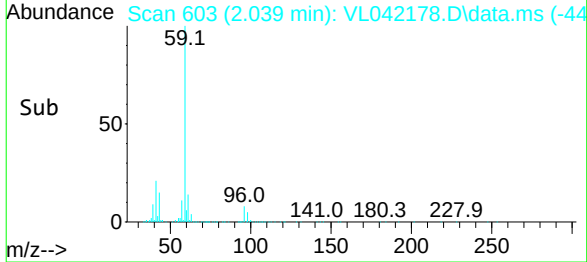
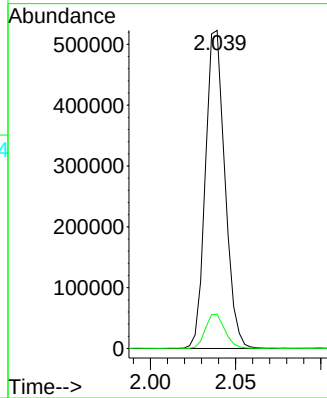
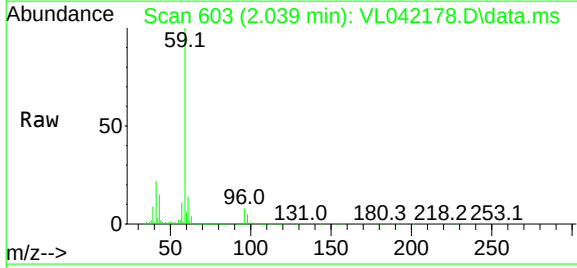
#17
tert-Butyl alcohol
Concen: 13.787 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 59 Resp: 416362
Ion Ratio Lower Upper
59 100
57 10.8 8.9 13.3

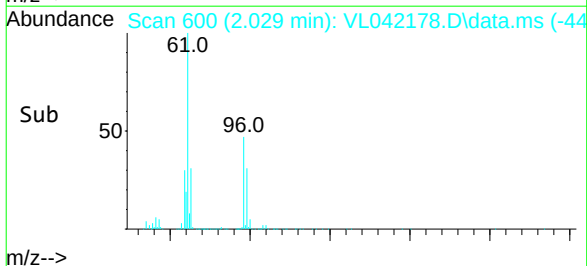
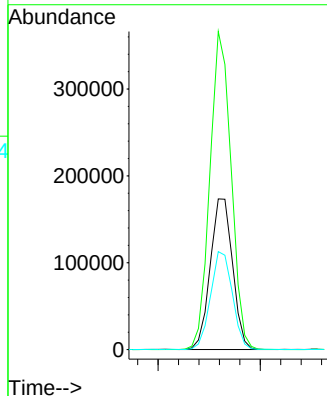
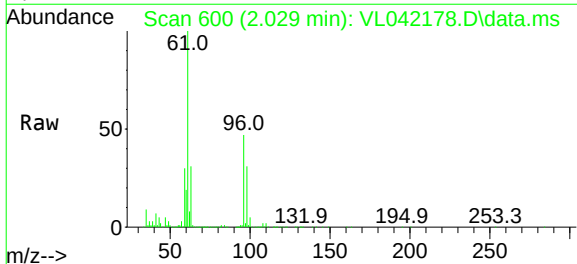
Manual Integrations
APPROVED

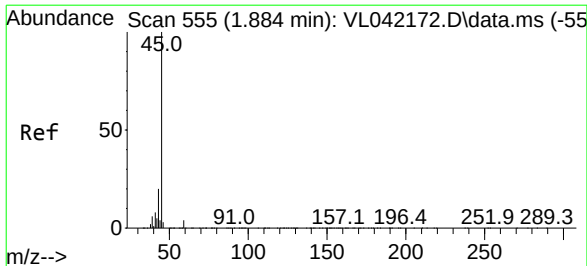
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 13.762 ppbv
RT: 2.029 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

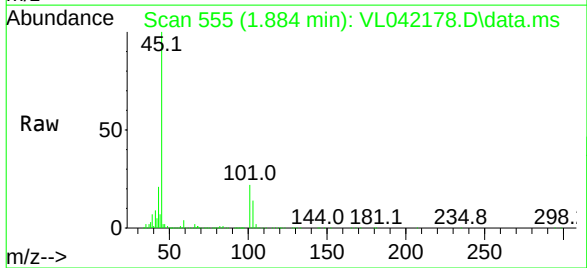
Tgt Ion: 96 Resp: 131720
Ion Ratio Lower Upper
96 100
61 211.1 167.6 251.4
98 64.9 53.5 80.3





#19
Isopropyl Alcohol
Concen: 13.093 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

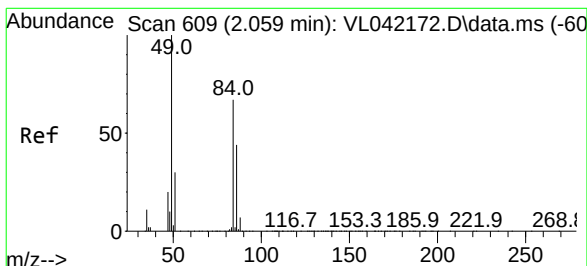
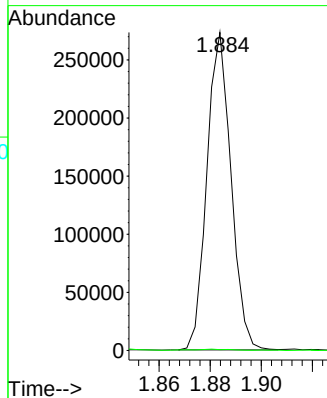
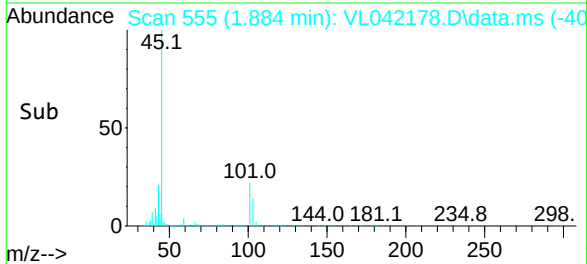
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 45 Resp: 179117
Ion Ratio Lower Upper
45 100
58 46.4 36.9 55.3

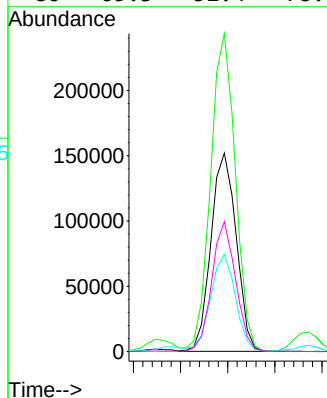
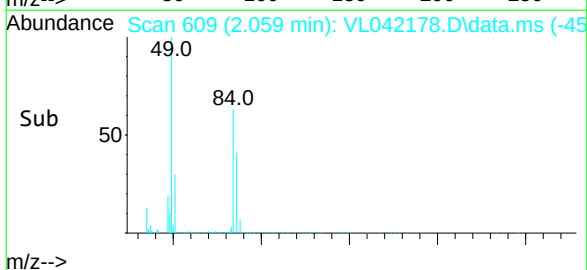
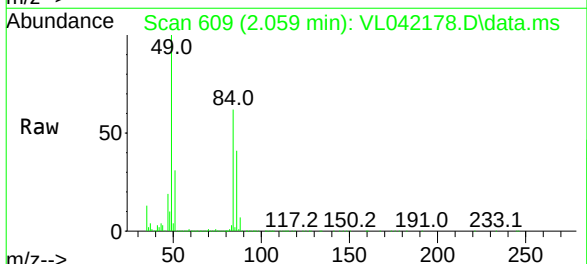
Manual Integrations
APPROVED

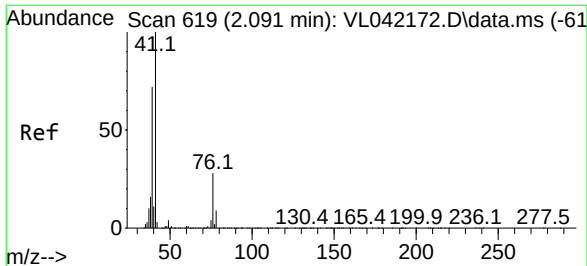
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 12.533 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 113183
Ion Ratio Lower Upper
84 100
49 159.7 120.2 180.4
51 48.7 37.4 56.0
86 65.3 52.4 78.6





#21

Allyl Chloride

Concen: 14.002 ppbv

RT: 2.094 min Scan# 621

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

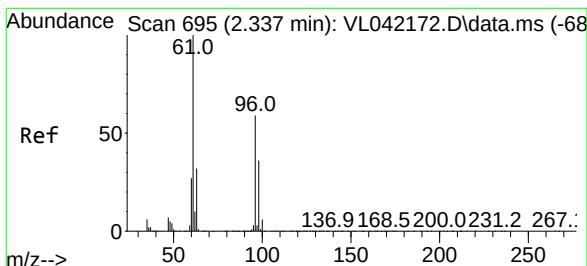
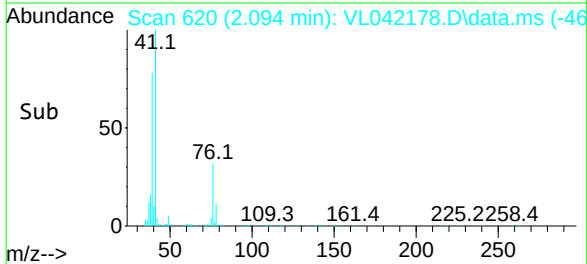
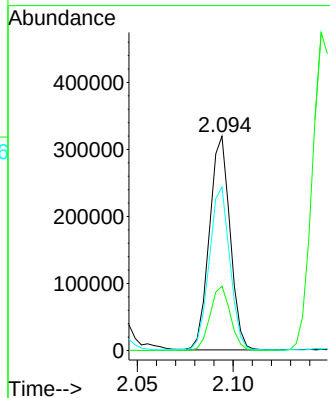
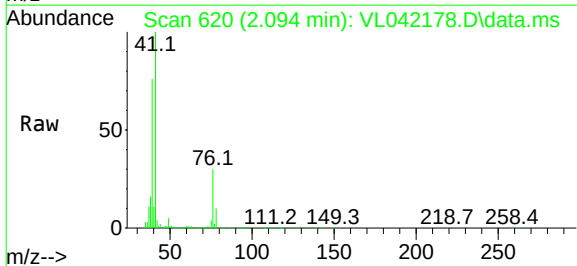
VSTDIC015

Tgt Ion:	41	Resp:	239440
Ion	Ratio	Lower	Upper
41	100		
76	29.5	24.1	36.1
39	76.1	61.1	91.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 13.362 ppbv

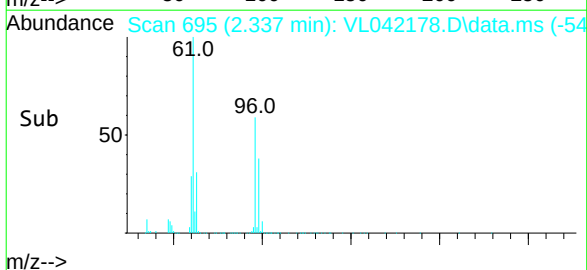
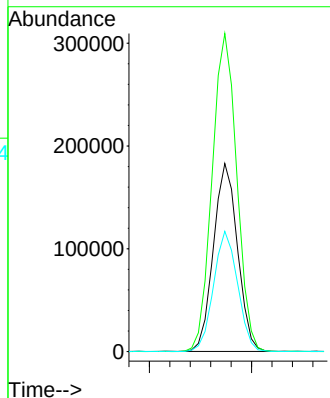
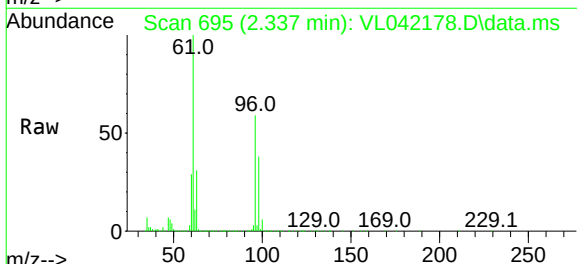
RT: 2.337 min Scan# 695

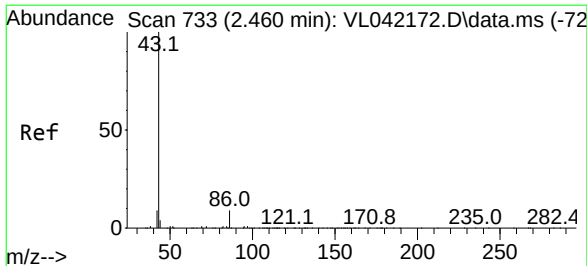
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Tgt Ion:	96	Resp:	149455
Ion	Ratio	Lower	Upper
96	100		
61	169.2	136.6	204.8
98	63.9	49.4	74.2





#23

Vinyl Acetate

Concen: 13.736 ppbv

RT: 2.460 min Scan# 733

Delta R.T. -0.000 min

Lab File: VL042178.D

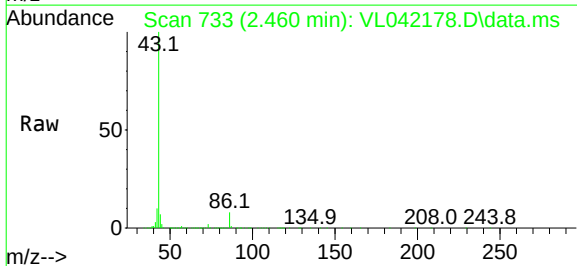
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

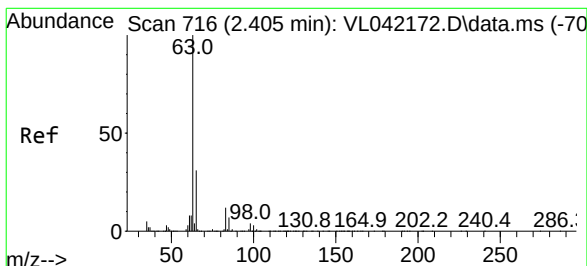
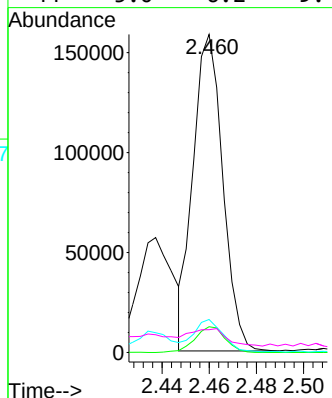
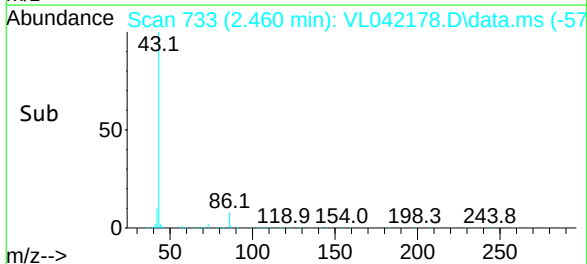


Tgt Ion:	43	Resp:	138419
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	10.1	8.6	13.0
44	5.0	6.2	9.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#24

1,1-Dichloroethane

Concen: 14.570 ppbv

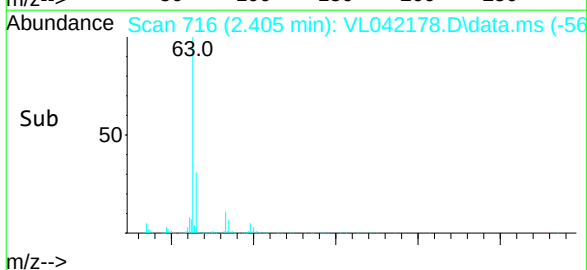
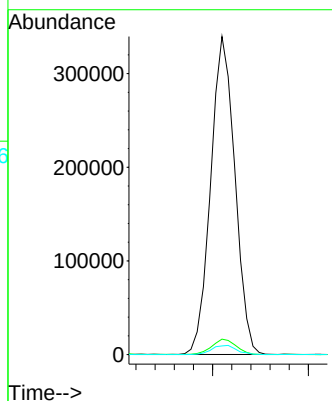
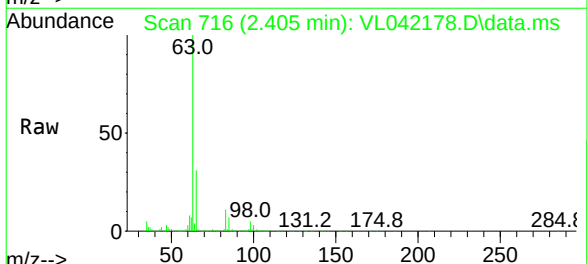
RT: 2.405 min Scan# 716

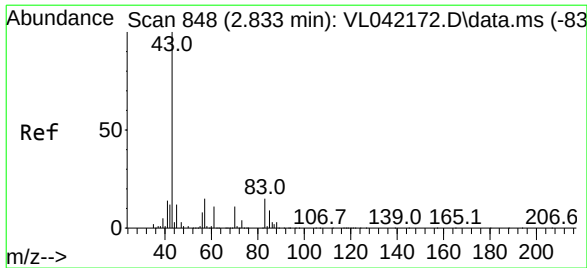
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

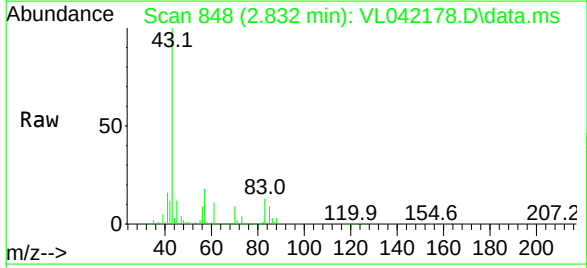
Tgt Ion:	63	Resp:	298760
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	2.7	1.6	4.7





#25
Ethyl Acetate
Concen: 13.855 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

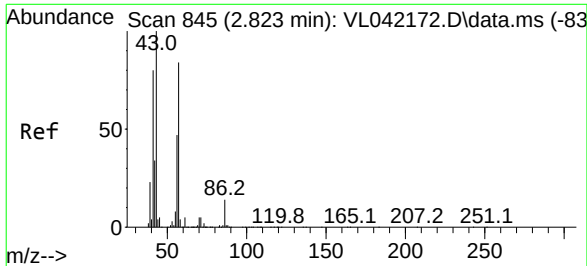
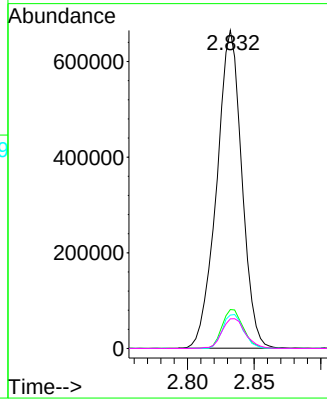
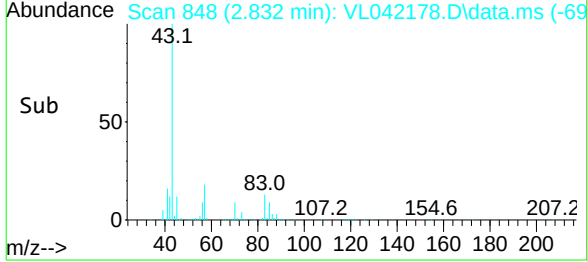
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



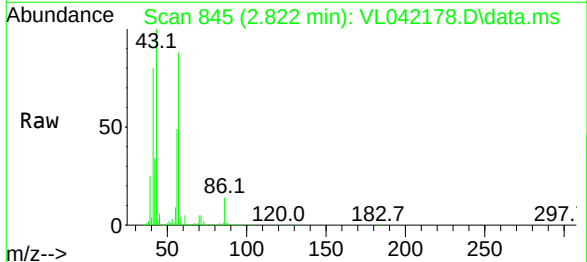
Tgt Ion: 43 Resp: 871882
Ion Ratio Lower Upper
43 100
45 10.3 8.2 12.2
61 9.0 7.3 10.9
70 8.8 7.2 10.8

Manual Integrations
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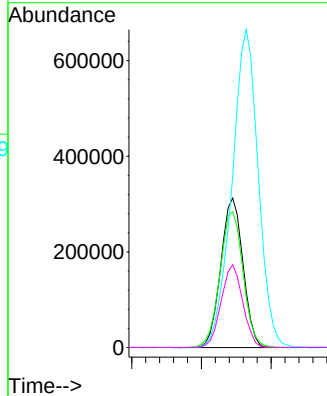
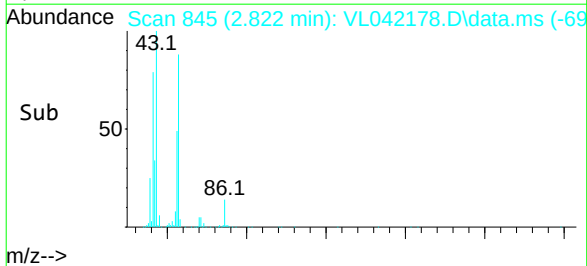
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

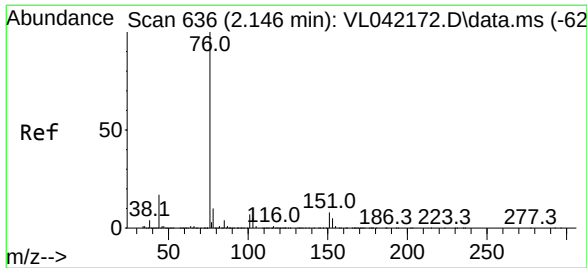


#26
Hexane
Concen: 14.178 ppbv
RT: 2.822 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion: 57 Resp: 344636
Ion Ratio Lower Upper
57 100
41 96.1 76.6 114.8
43 254.0 207.8 311.8
56 53.9 43.6 65.4





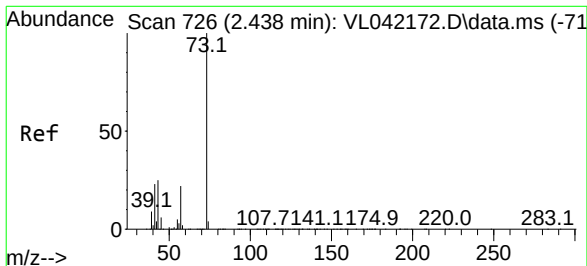
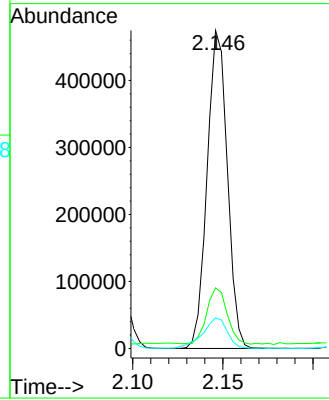
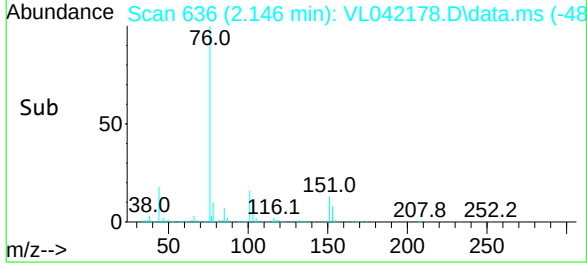
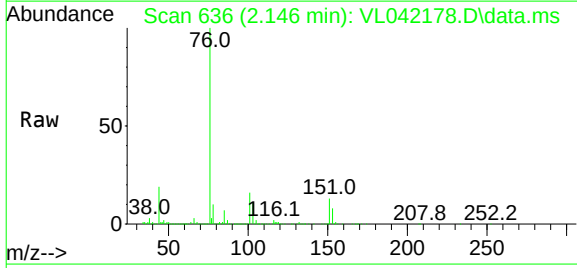
#27
Carbon Disulfide
Concen: 14.196 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 76 Resp: 370022
Ion Ratio Lower Upper
76 100
44 20.3 14.7 22.1
78 11.7 9.3 13.9

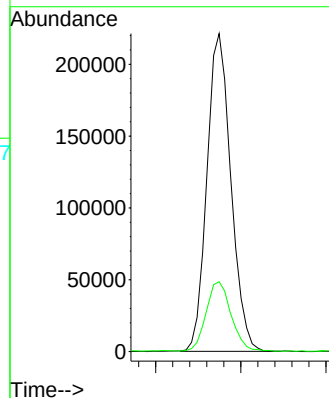
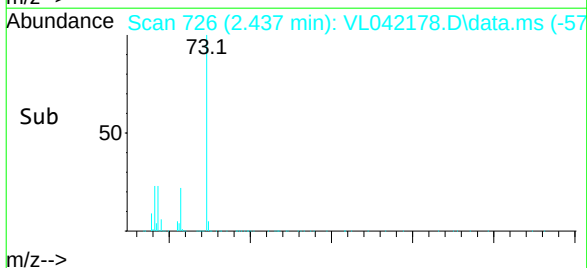
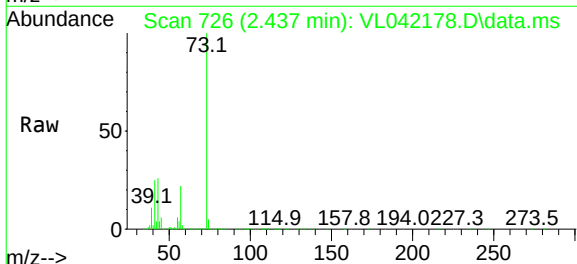
Manual Integrations
APPROVED

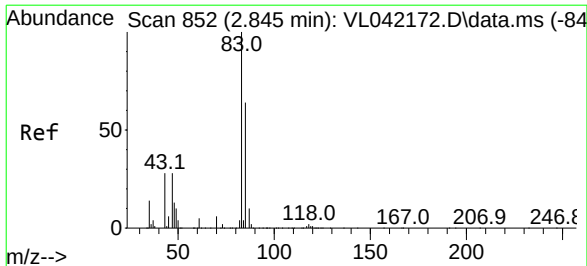
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 14.303 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

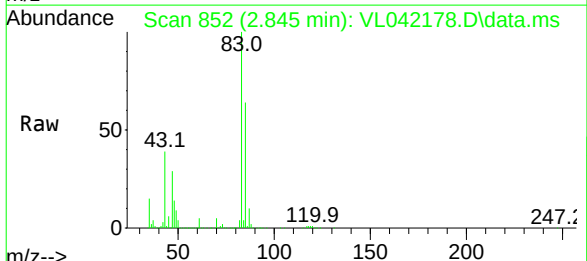
Tgt Ion: 73 Resp: 216463
Ion Ratio Lower Upper
73 100
57 23.2 20.5 30.7





#29
Chloroform
Concen: 14.297 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

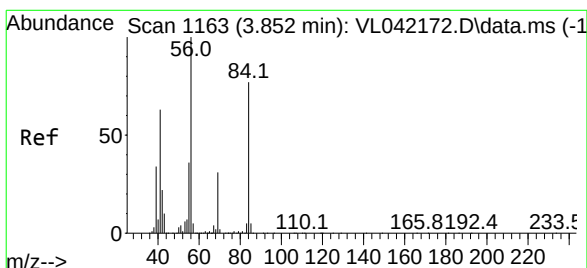
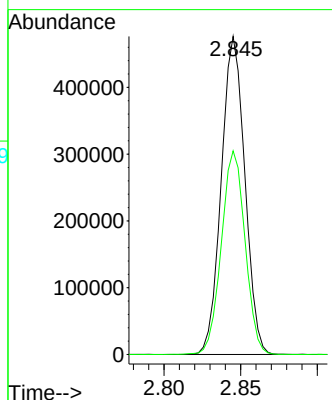
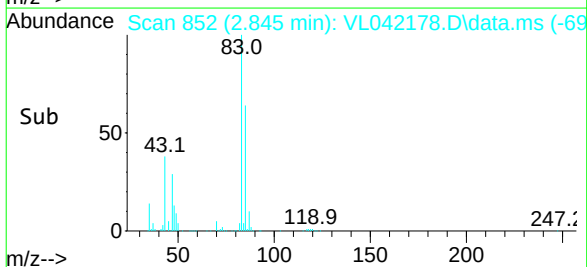
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 83 Resp: 508614
Ion Ratio Lower Upper
83 100
85 64.0 51.4 77.2

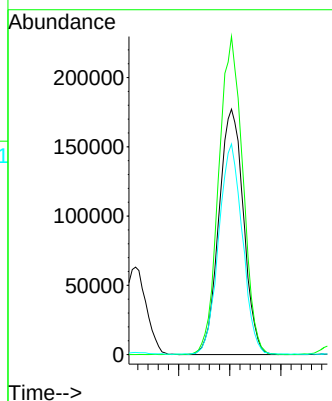
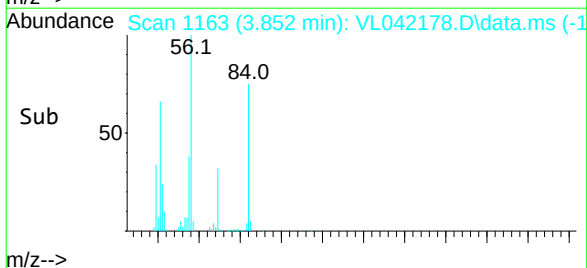
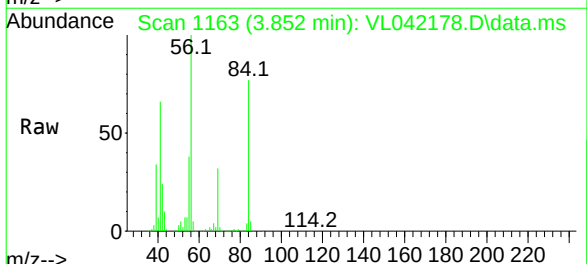
Manual Integrations
APPROVED

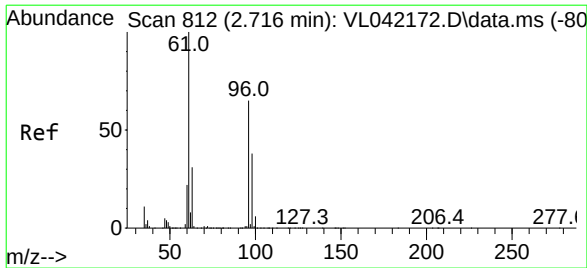
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#30
Cyclohexane
Concen: 14.040 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 84 Resp: 296458
Ion Ratio Lower Upper
84 100
56 126.7 102.8 154.2
41 82.6 66.5 99.7





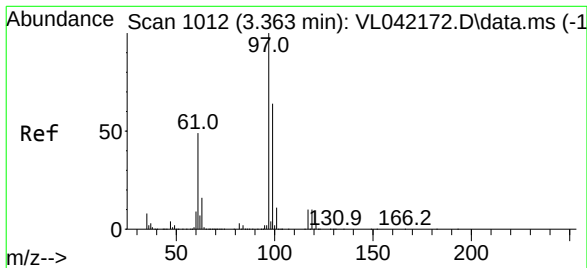
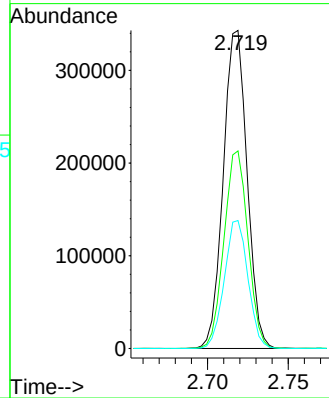
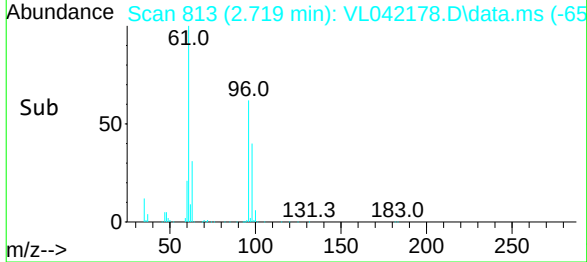
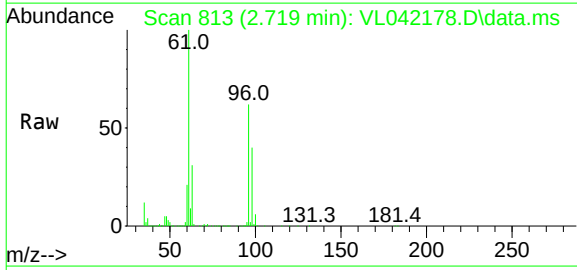
#31
 cis-1,2-Dichloroethene
 Concen: 14.262 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 61 Resp: 351945
 Ion Ratio Lower Upper
 61 100
 96 62.1 51.8 77.8
 98 40.2 30.6 46.0

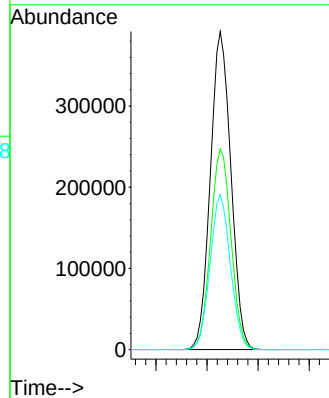
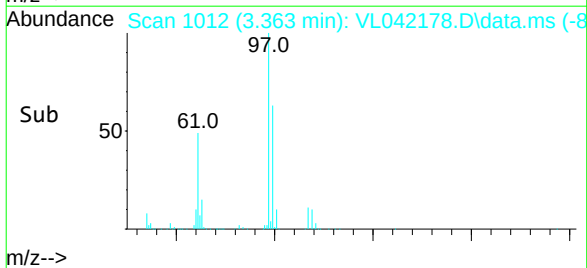
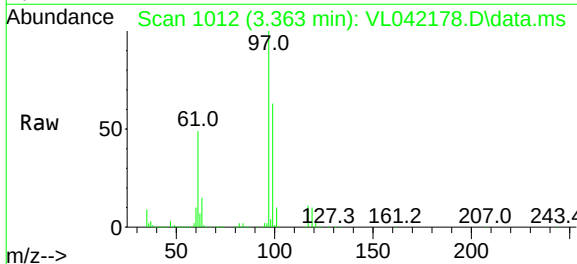
Manual Integrations
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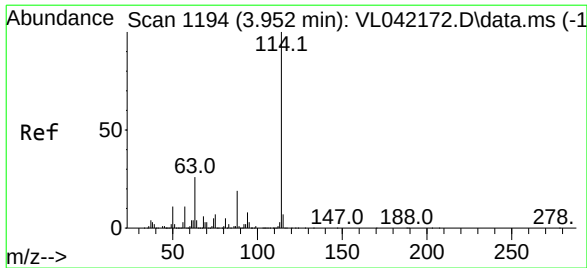
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#32
 1,1,1-Trichloroethane
 Concen: 13.448 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042178.D
 Acq: 27 Mar 2025 11:36

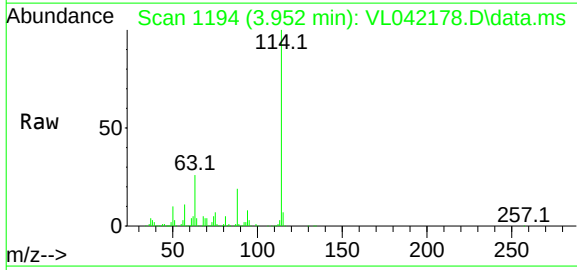
Tgt Ion: 97 Resp: 547329
 Ion Ratio Lower Upper
 97 100
 99 62.8 51.5 77.3
 61 48.4 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

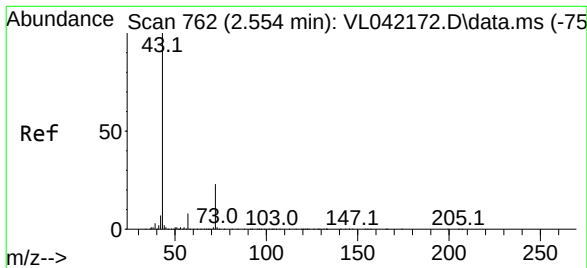
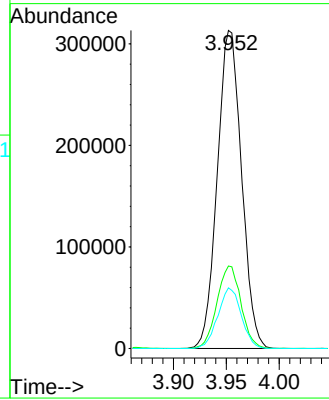
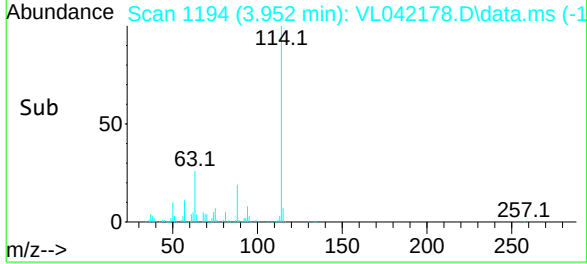
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 114 Resp: 499360
Ion Ratio Lower Upper
114 100
63 25.7 20.7 31.1
88 18.4 15.0 22.4

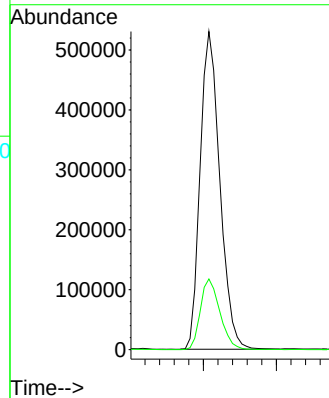
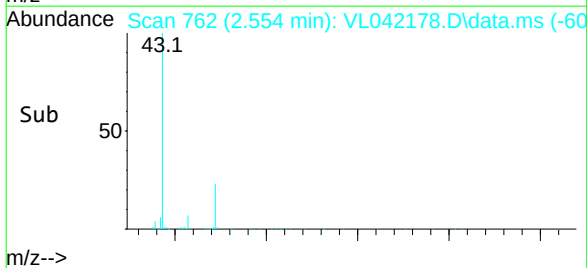
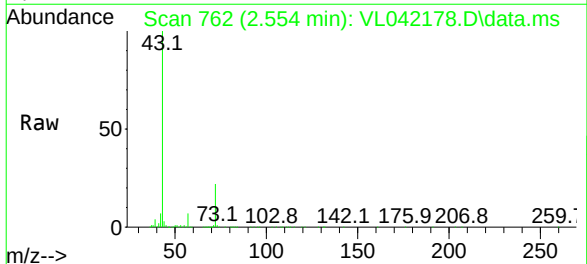
Manual Integrations
APPROVED

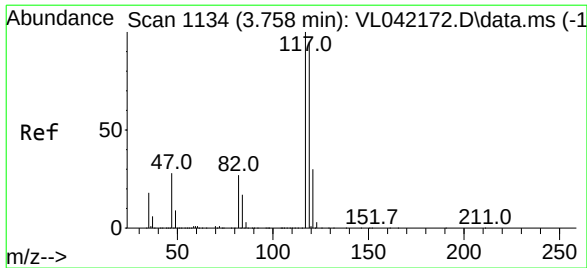
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#34
2-Butanone
Concen: 13.726 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 43 Resp: 497020
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2





#35

Carbon Tetrachloride

Concen: 14.140 ppbv

RT: 3.758 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

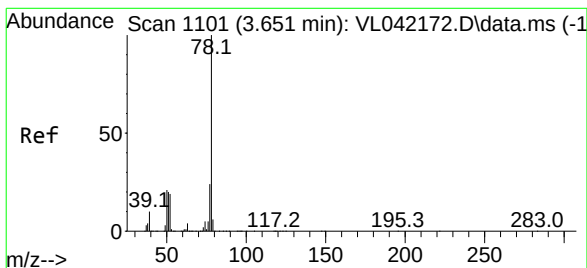
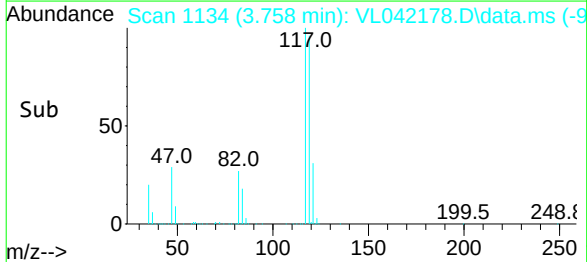
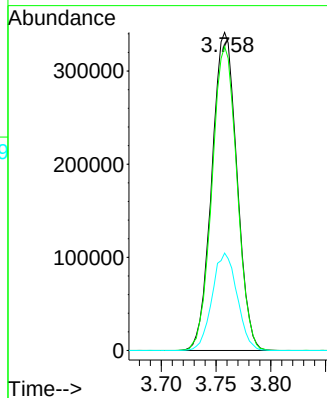
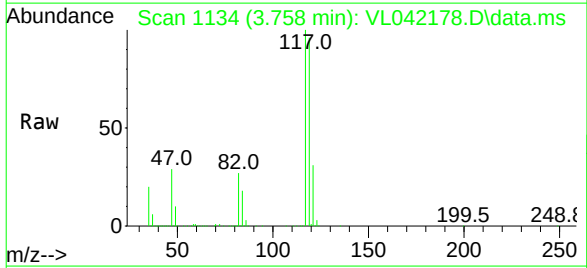
VSTDIC015

Tgt Ion:	117	Resp:	543385
Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.2	114.2
121	30.6	24.2	36.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#36

Benzene

Concen: 14.131 ppbv

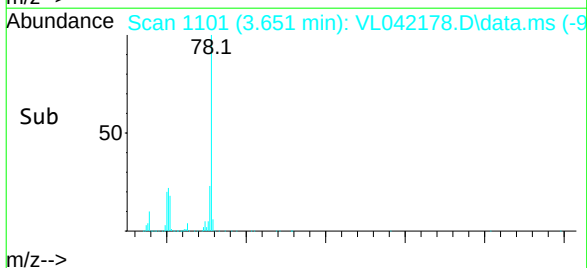
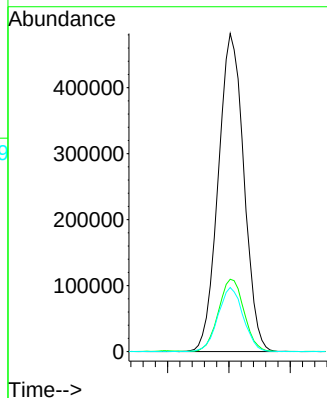
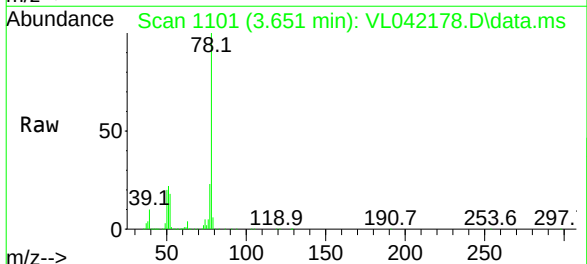
RT: 3.651 min Scan# 1101

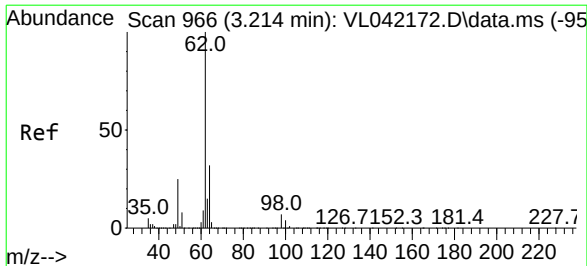
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

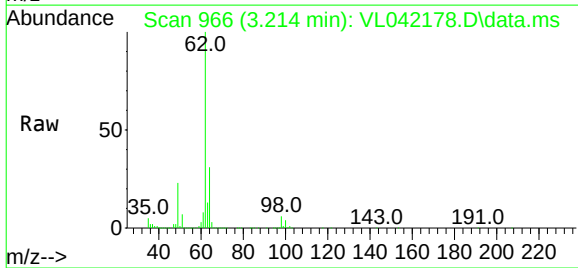
Tgt Ion:	78	Resp:	699549
Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.1	28.7
50	20.1	16.6	24.8





#37
1,2-Dichloroethane
Concen: 14.697 ppbv
RT: 3.214 min Scan# 96
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

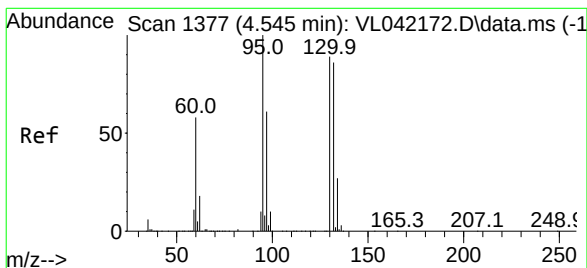
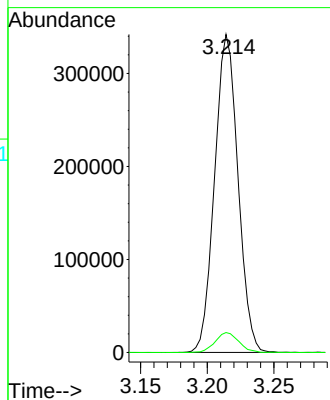
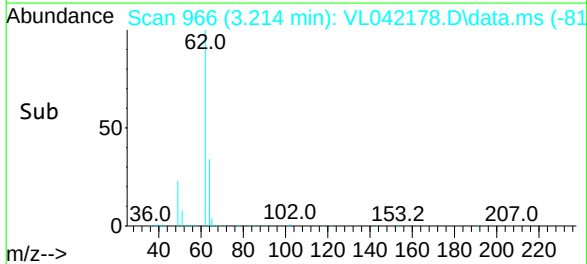
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



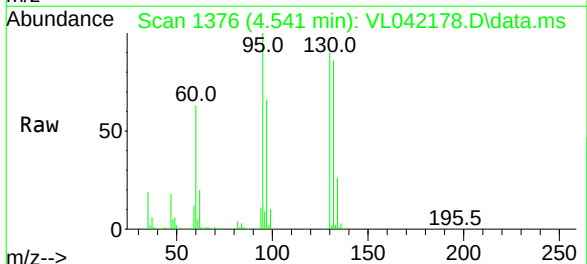
Tgt Ion: 62 Resp: 416544
Ion Ratio Lower Upper
62 100
98 6.4 5.4 8.2

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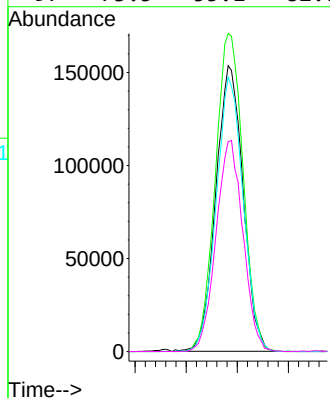
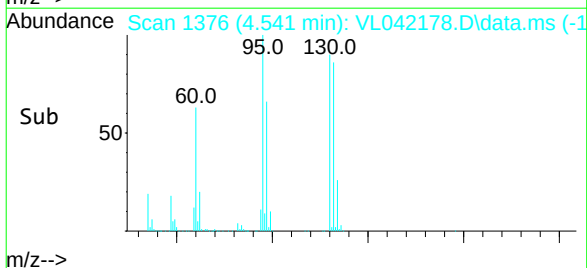
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

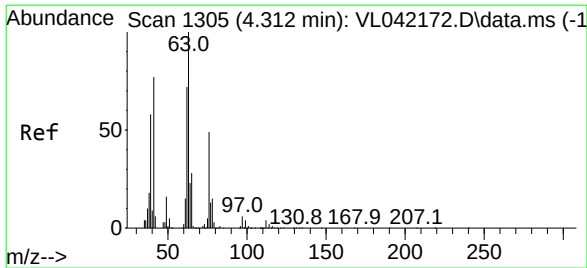


#38
Trichloroethene
Concen: 13.715 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion:130 Resp: 283430
Ion Ratio Lower Upper
130 100
95 111.3 89.8 134.8
132 96.0 77.4 116.2
97 73.5 55.1 82.7





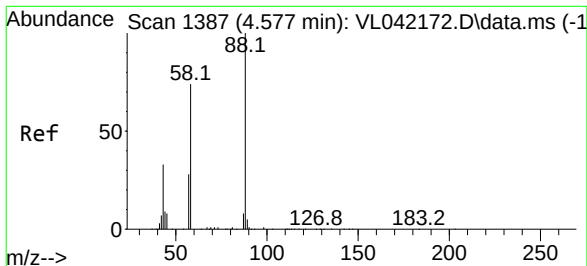
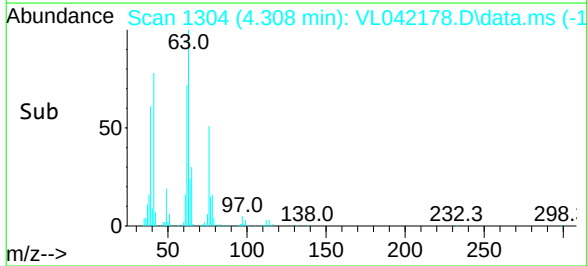
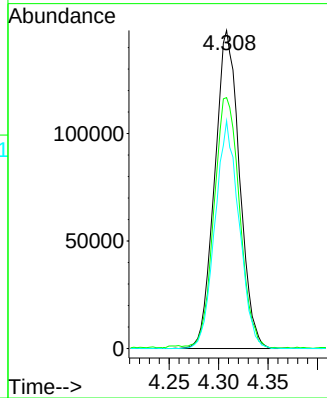
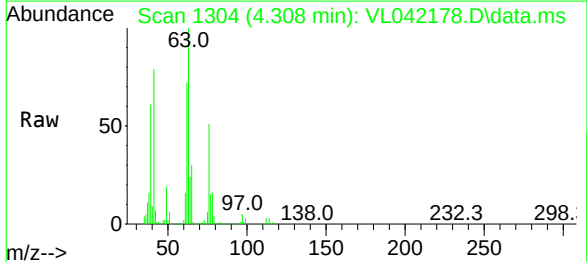
#39
1,2-Dichloropropane
Concen: 14.304 ppbv
RT: 4.308 min Scan# 1305
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 63 Resp: 257891
Ion Ratio Lower Upper
63 100
41 78.7 61.7 92.5
62 71.6 57.6 86.4

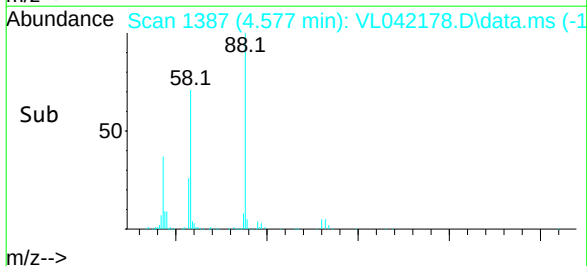
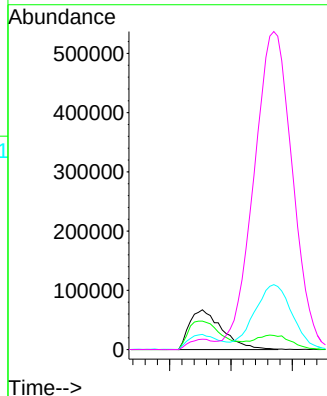
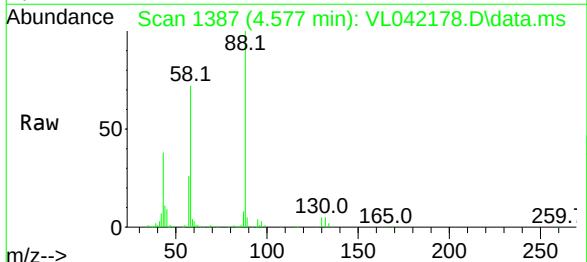
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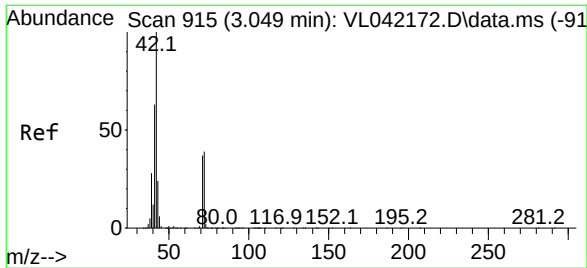
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#40
1,4-Dioxane
Concen: 13.354 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 88 Resp: 124925
Ion Ratio Lower Upper
88 100
58 69.6 62.7 94.1
43 31.6 23.0 34.4
57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 14.301 ppbv

RT: 3.049 min Scan# 91

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 42 Resp: 294634

Ion Ratio Lower Upper

42 100

72 39.0 31.4 47.0

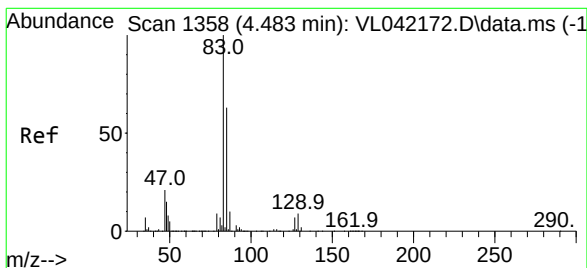
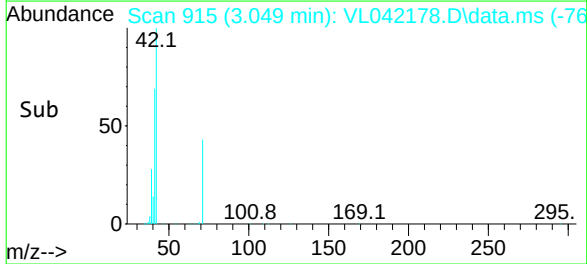
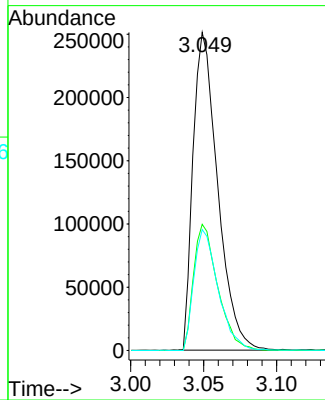
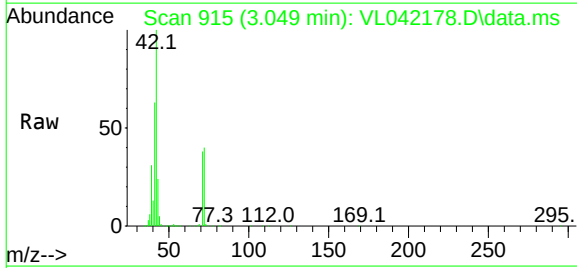
71 37.9 30.2 45.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 15.043 ppbv

RT: 4.483 min Scan# 1358

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

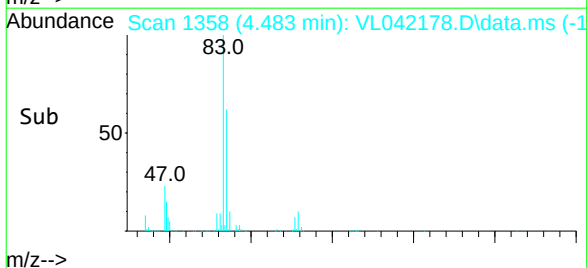
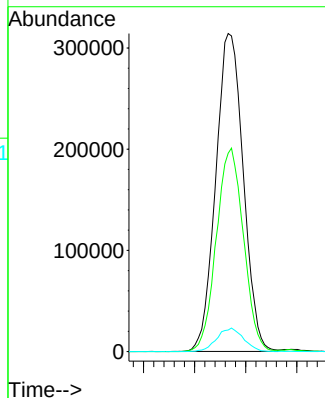
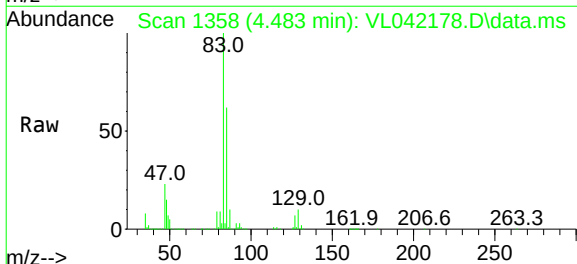
Tgt Ion: 83 Resp: 587772

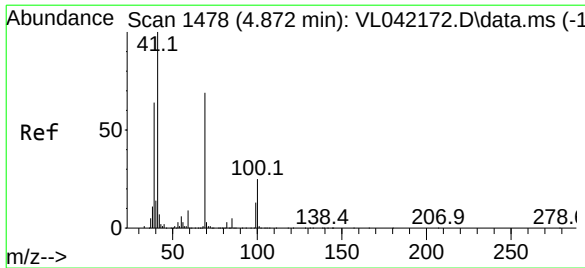
Ion Ratio Lower Upper

83 100

85 62.4 50.5 75.7

127 6.8 5.9 8.9





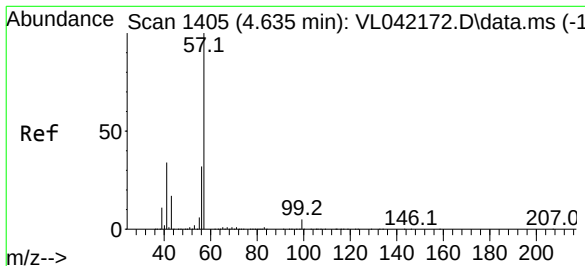
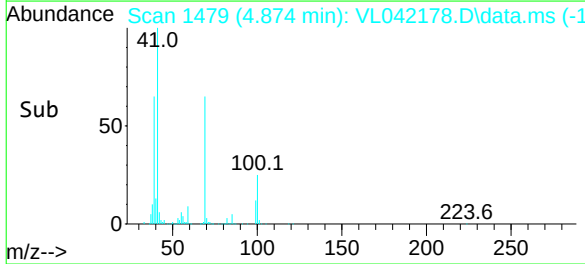
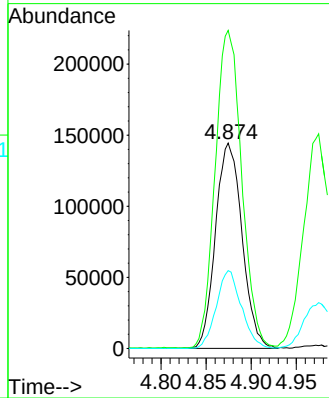
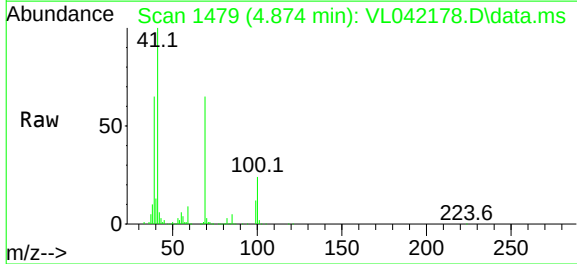
#43
Methyl Methacrylate
Concen: 14.130 ppbv
RT: 4.874 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Tgt Ion: 69 Resp: 295300
Ion Ratio Lower Upper
69 100
41 155.4 123.8 185.6
100 36.0 28.4 42.6

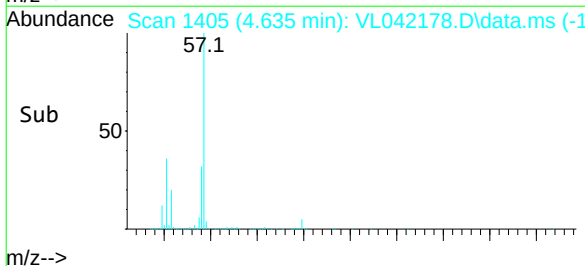
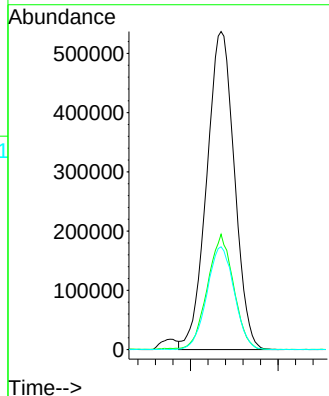
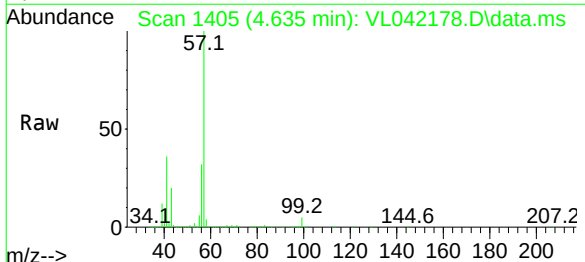
Manual Integrations
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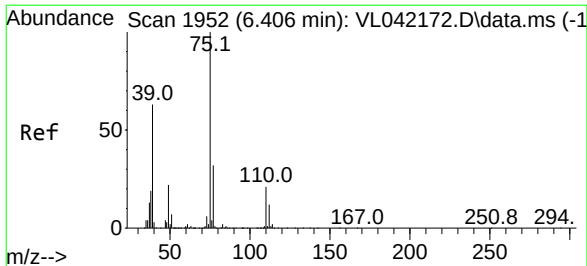
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 14.108 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 57 Resp: 1180275
Ion Ratio Lower Upper
57 100
41 34.2 26.8 40.2
56 31.9 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 14.649 ppbv

RT: 6.405 min Scan# 19

Delta R.T. -0.000 min

Lab File: VL042178.D

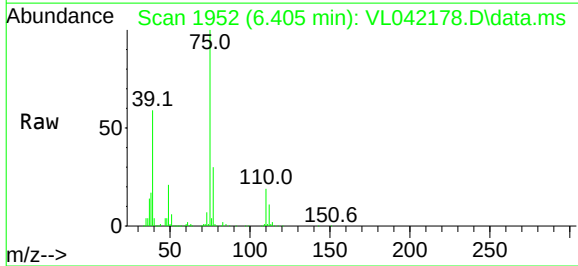
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion: 75 Resp: 329360

Ion Ratio Lower Upper

75 100

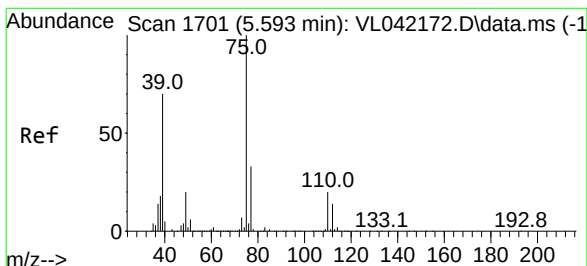
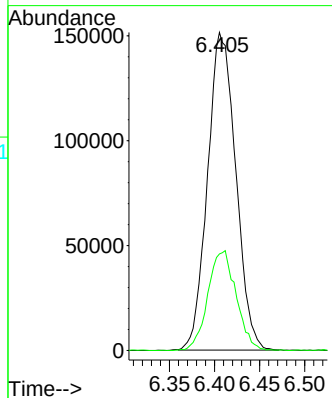
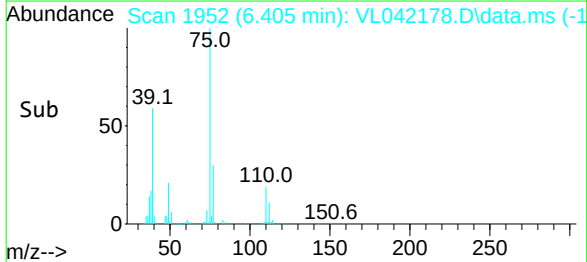
77 30.4 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#46

cis-1,3-Dichloropropene

Concen: 14.542 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

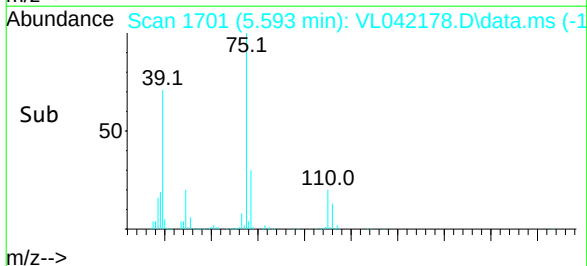
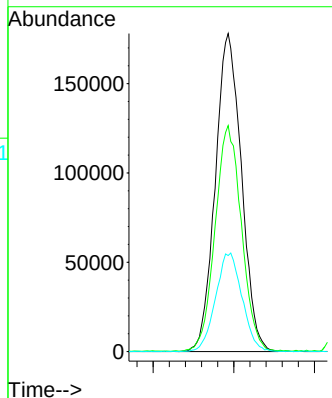
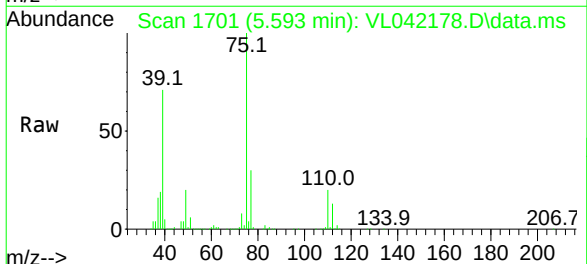
Tgt Ion: 75 Resp: 400813

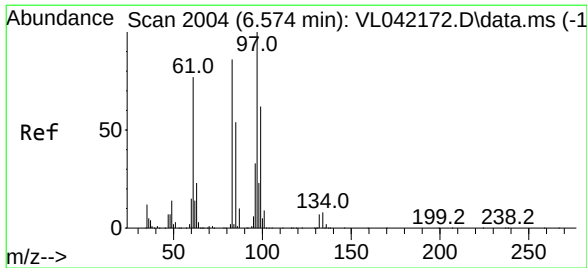
Ion Ratio Lower Upper

75 100

39 70.9 55.8 83.6

77 30.2 26.0 39.0





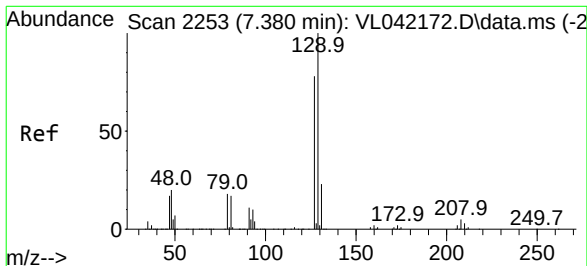
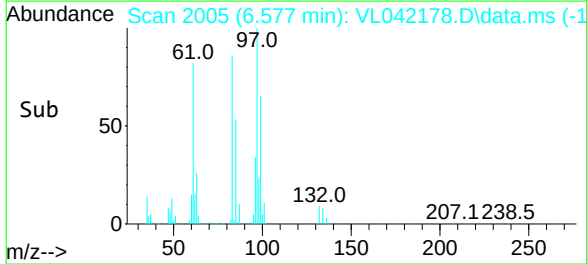
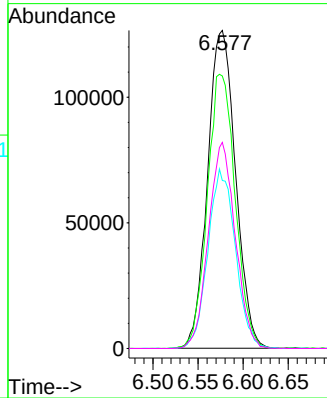
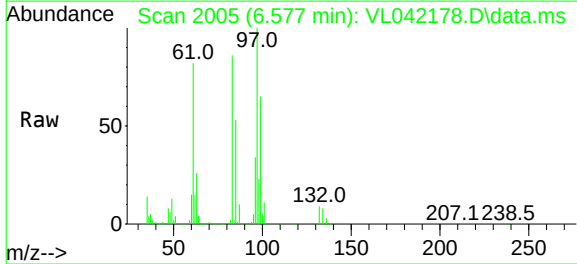
#47
1,1,2-Trichloroethane
Concen: 14.331 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.7	69.2	103.8
85	52.7	43.1	64.7
99	64.7	49.4	74.2

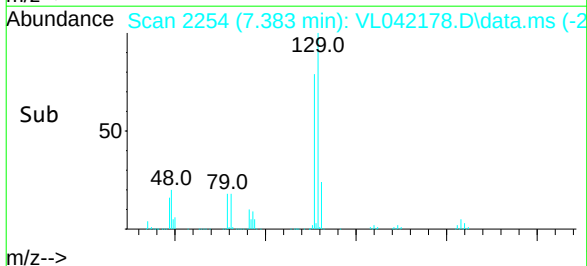
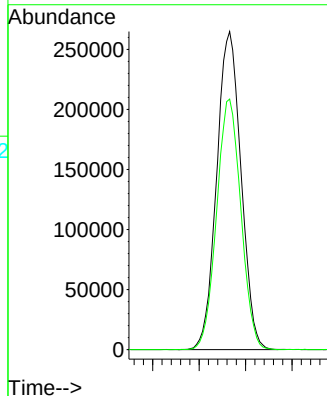
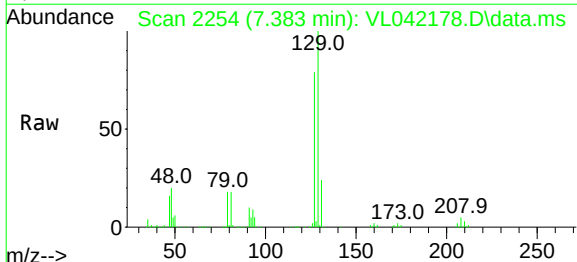
Manual Integrations
APPROVED

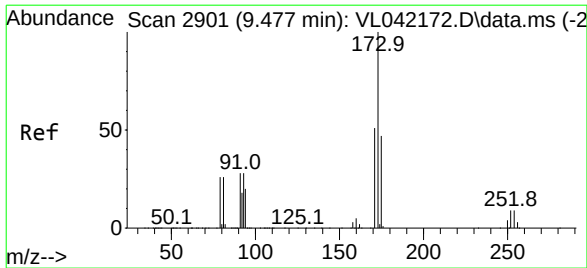
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 14.936 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.2





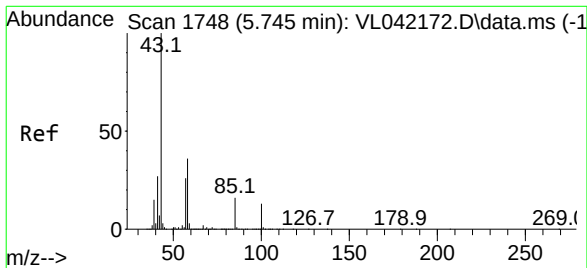
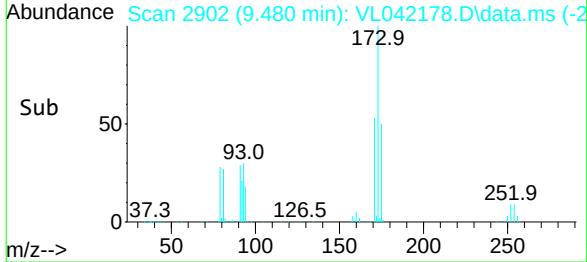
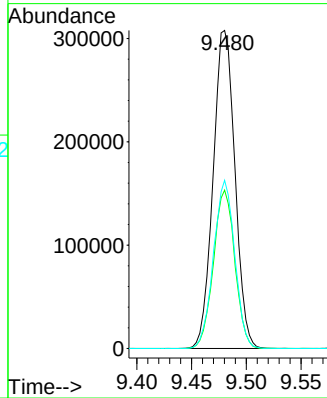
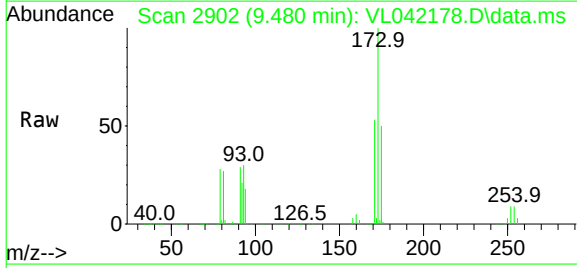
#49
Bromoform
Concen: 14.730 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 173 Resp: 427143
Ion Ratio Lower Upper
173 100
175 48.9 38.6 57.8
171 51.5 41.8 62.6

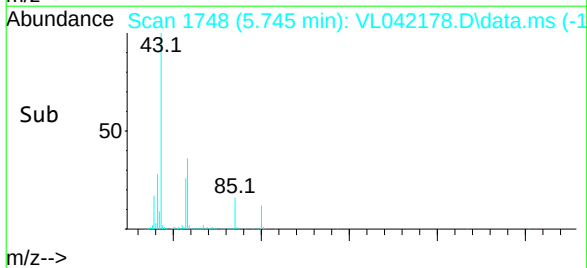
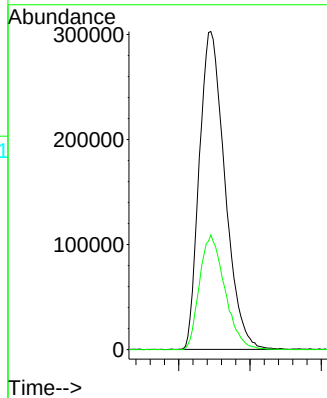
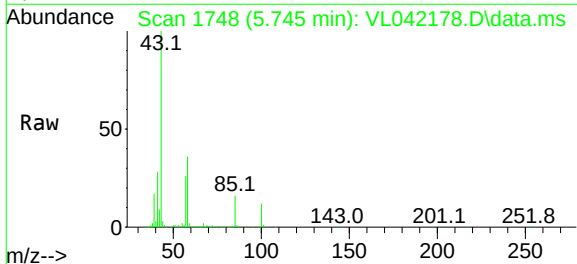
Manual Integrations
APPROVED

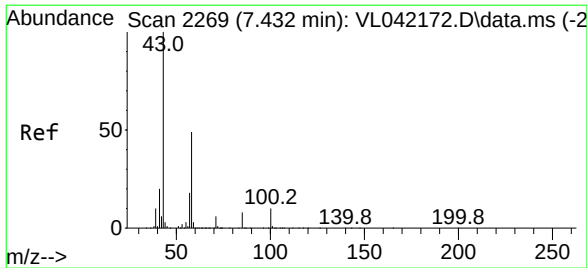
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 13.155 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

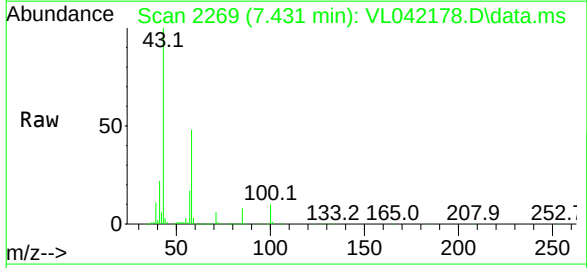
Tgt Ion: 43 Resp: 755146
Ion Ratio Lower Upper
43 100
58 35.5 29.0 43.6





#51
2-Hexanone
Concen: 13.005 ppbv
RT: 7.431 min Scan# 2269
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

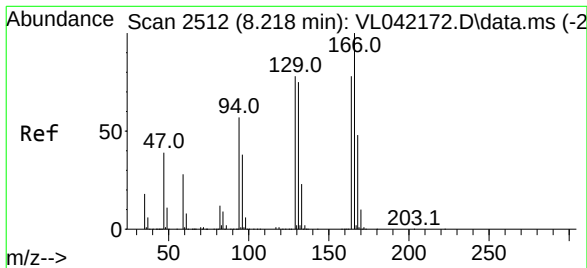
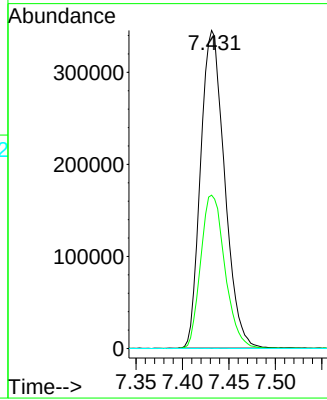
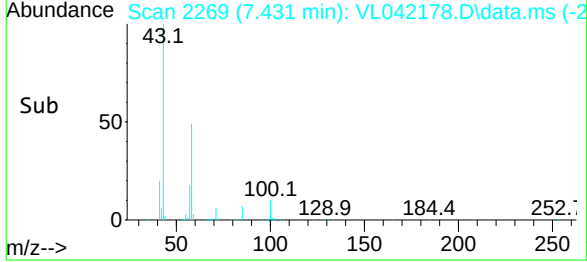
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



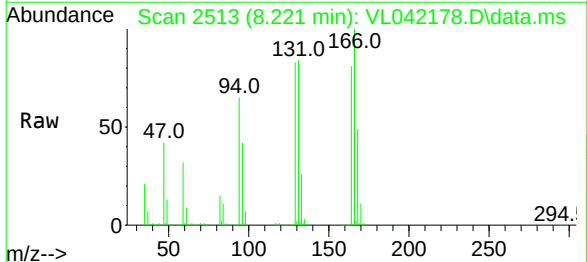
Tgt Ion: 43 Resp: 619419
Ion Ratio Lower Upper
43 100
58 49.0 39.7 59.5
98 0.0 0.1 0.1#

Manual Integrations
APPROVED

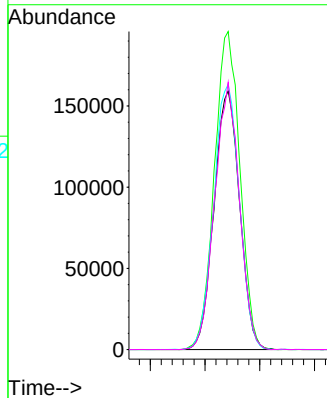
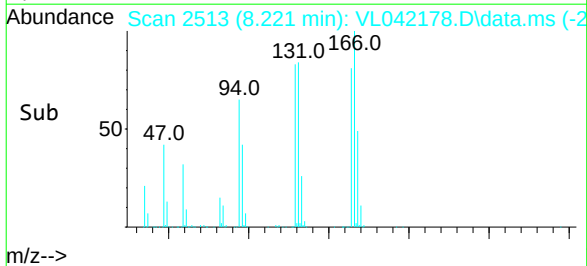
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

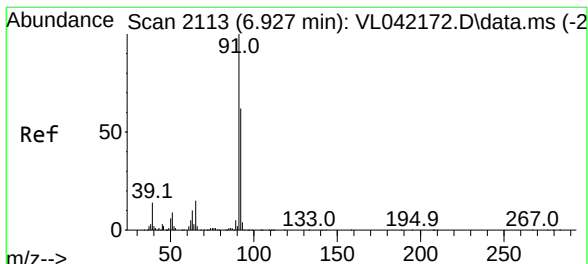


#52
Tetrachloroethene
Concen: 13.159 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion:164 Resp: 258356
Ion Ratio Lower Upper
164 100
166 123.0 102.5 153.7
129 102.5 79.8 119.8
131 103.3 76.6 114.8





#53
Toluene
Concen: 14.137 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

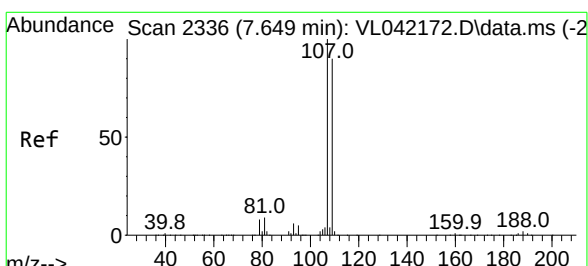
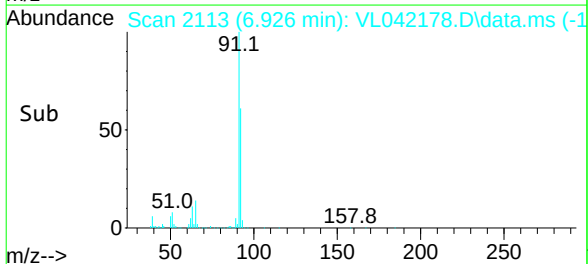
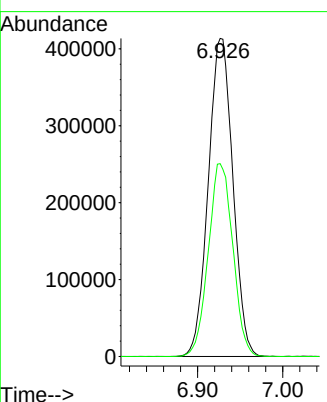
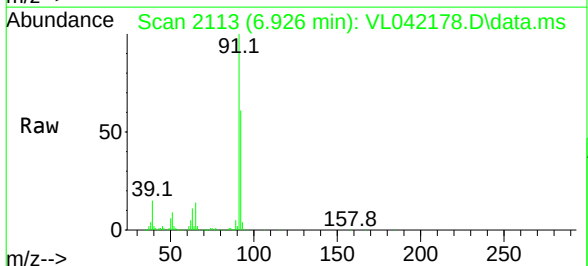
ClientSampleId :

VSTDICC015

Tgt Ion: 91 Resp: 829648
Ion Ratio Lower Upper
91 100
92 60.6 48.4 72.6

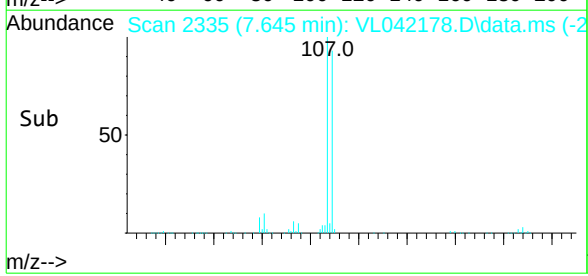
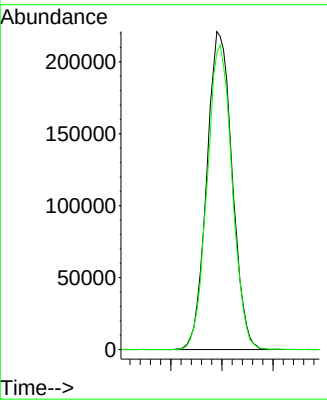
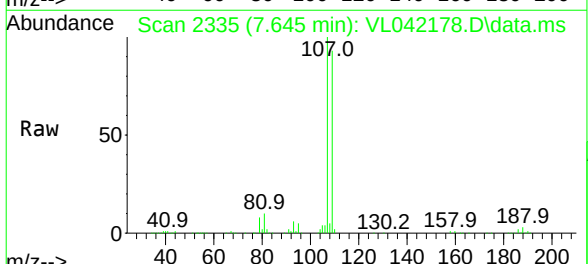
Manual Integrations
APPROVED

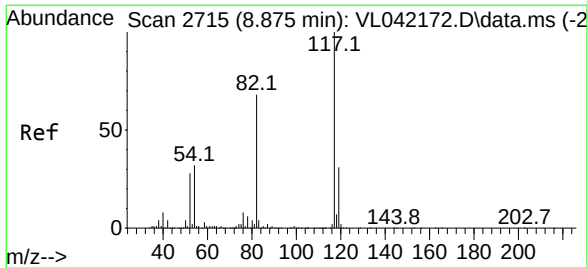
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#54
1,2-Dibromoethane
Concen: 14.359 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.004 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

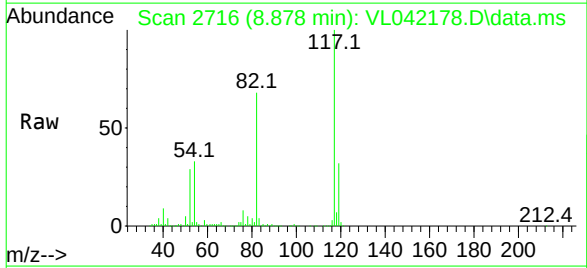
Tgt Ion:107 Resp: 381823
Ion Ratio Lower Upper
107 100
109 93.2 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

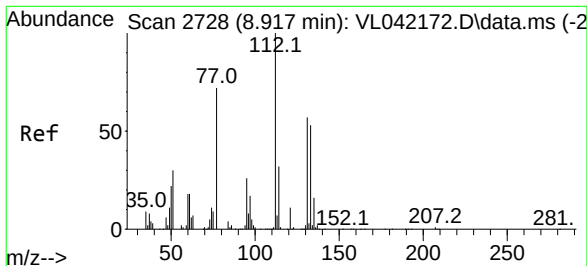
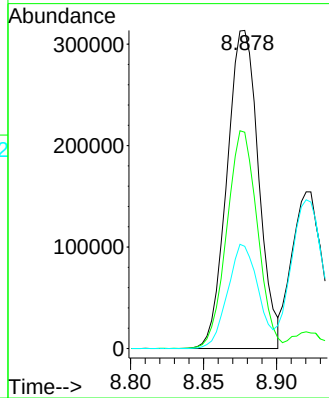
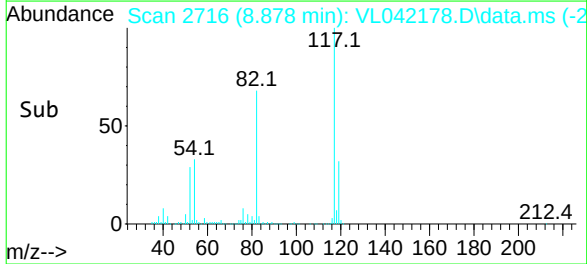
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:117 Resp: 473077
Ion Ratio Lower Upper
117 100
82 71.4 55.8 83.6
119 31.7 25.5 38.3

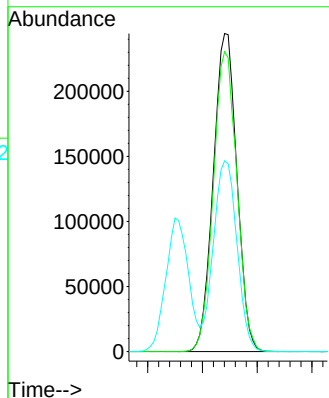
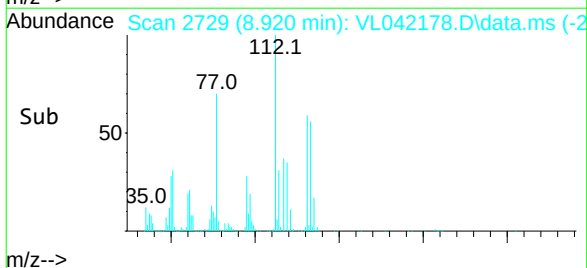
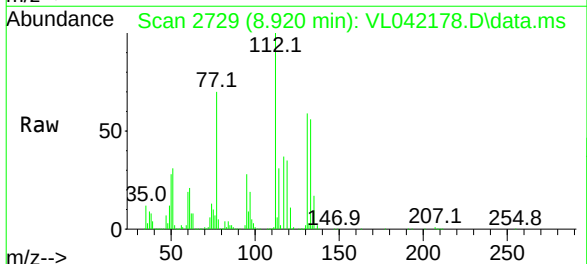
Manual Integrations
APPROVED

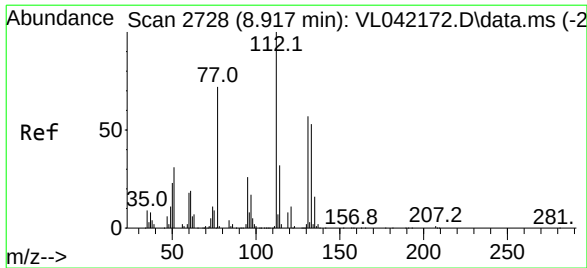
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 14.032 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion:131 Resp: 365410
Ion Ratio Lower Upper
131 100
133 94.5 76.6 114.8
119 61.2 49.8 74.6





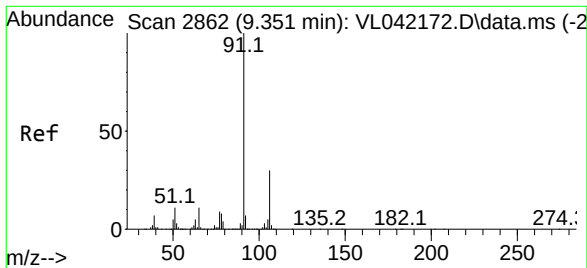
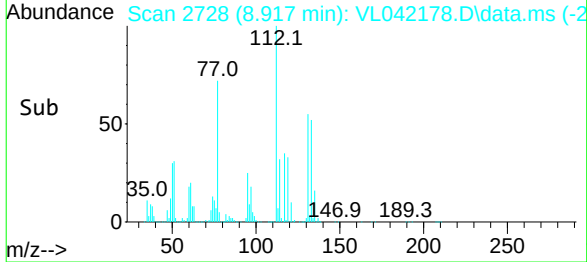
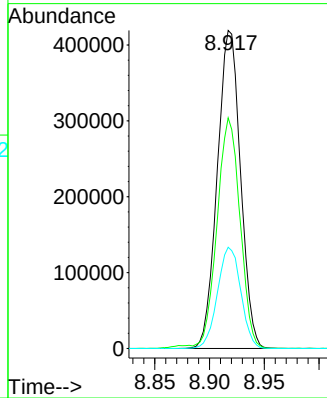
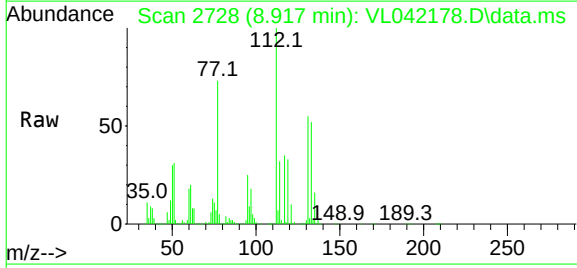
#57
Chlorobenzene
Concen: 13.777 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 112 Resp: 618201
Ion Ratio Lower Upper
112 100
77 72.5 58.2 87.2
114 31.8 29.1 35.5

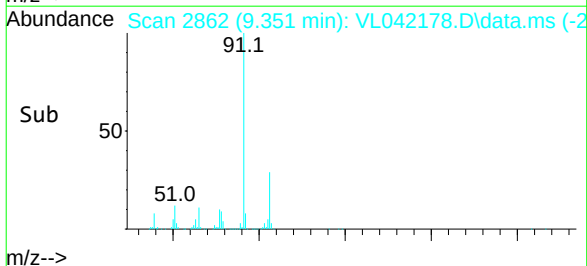
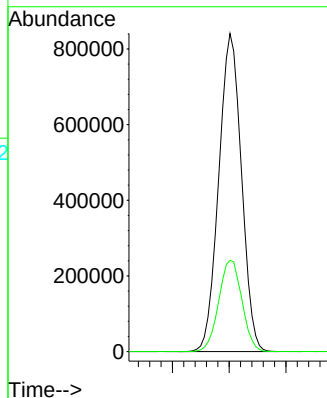
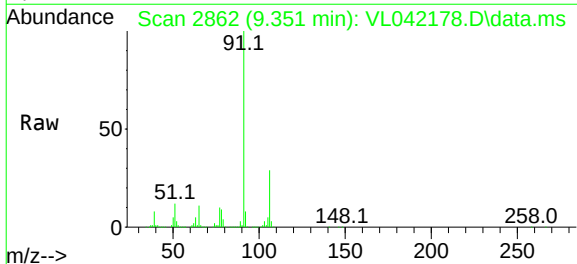
Manual Integrations
APPROVED

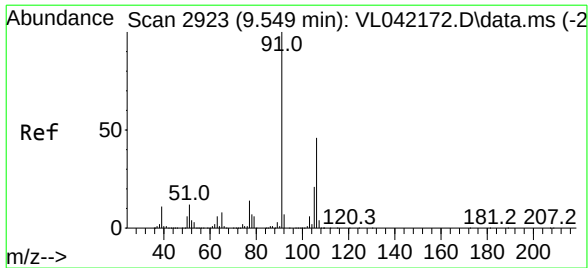
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 13.889 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

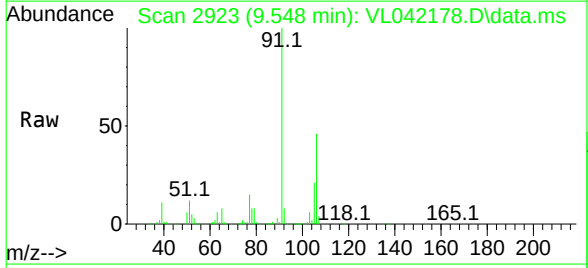
Tgt Ion: 91 Resp: 1167096
Ion Ratio Lower Upper
91 100
106 28.7 24.2 36.2





#59
m/p-Xylene
Concen: 27.651 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

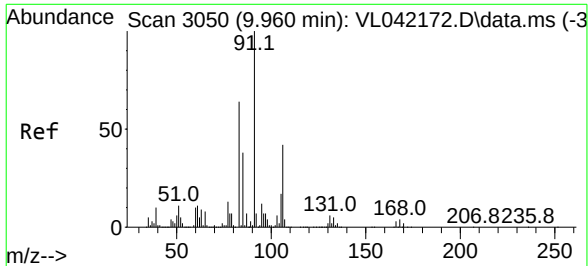
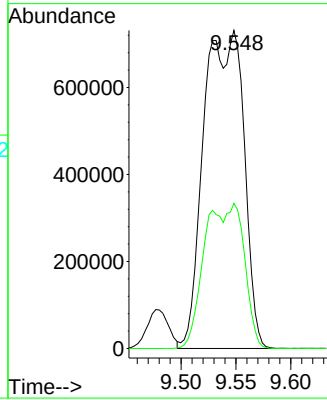
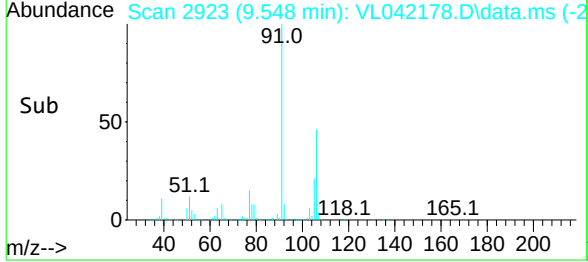
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 91 Resp: 1857561
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6

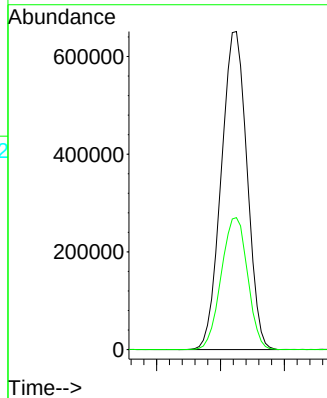
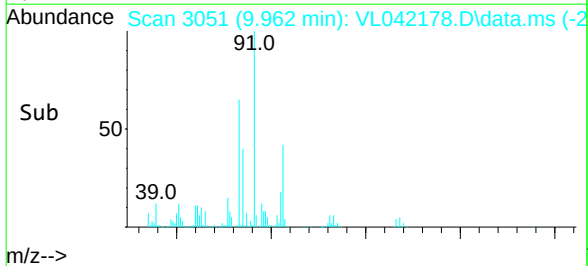
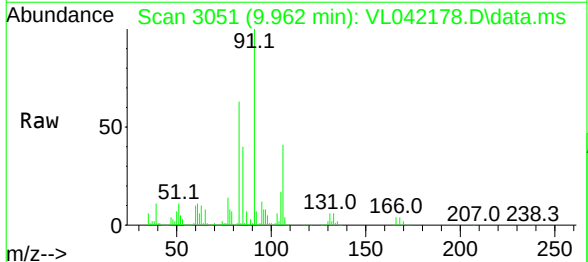
Manual Integrations
APPROVED

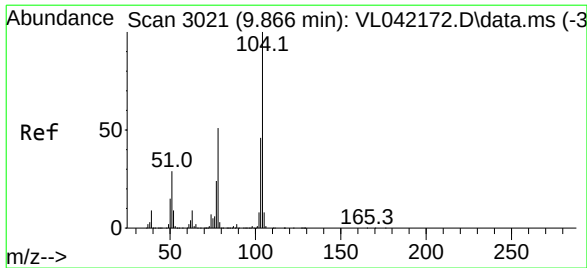
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#60
o-Xylene
Concen: 13.577 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 91 Resp: 913234
Ion Ratio Lower Upper
91 100
106 42.4 20.8 62.5





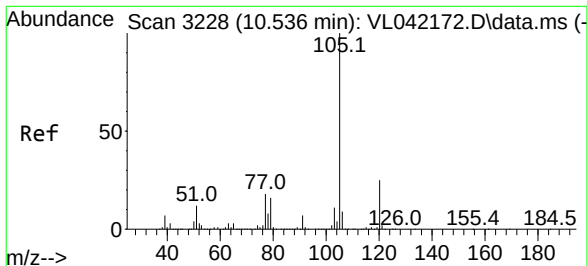
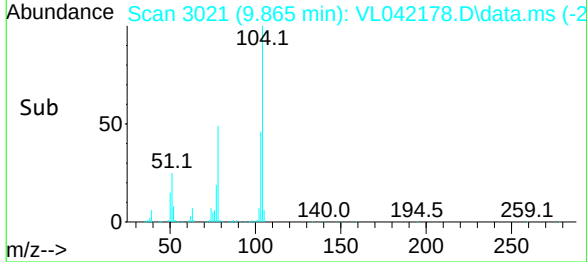
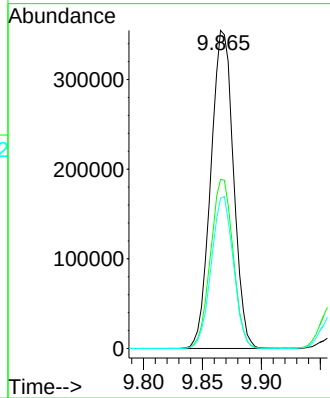
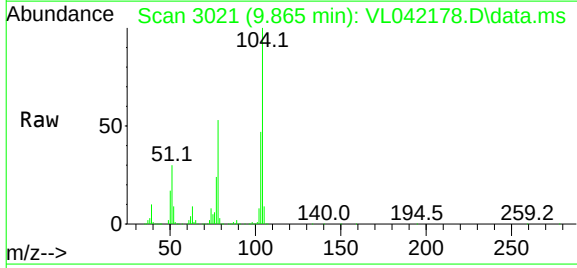
#61
Styrene
Concen: 14.250 ppbv
RT: 9.865 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:104 Resp: 474195
Ion Ratio Lower Upper
104 100
78 53.0 41.8 62.6
103 46.7 37.0 55.4

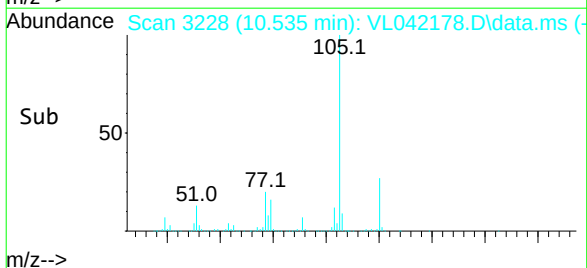
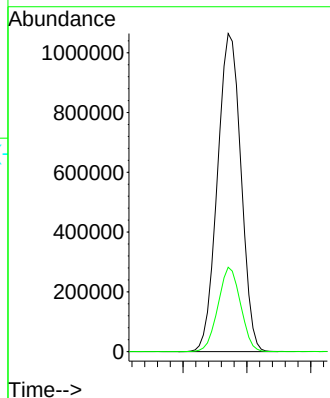
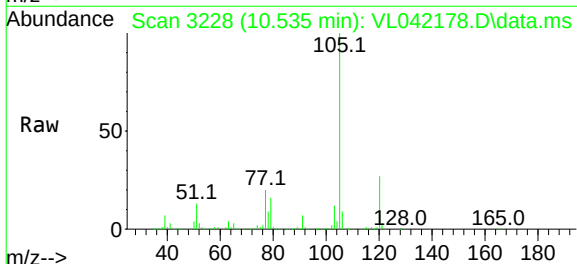
Manual Integrations
APPROVED

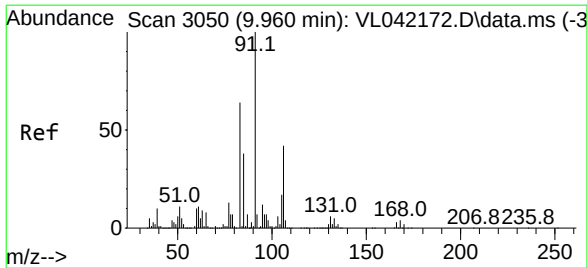
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62
Isopropylbenzene
Concen: 13.544 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

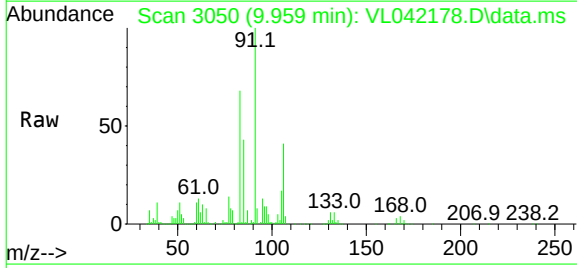
Tgt Ion:105 Resp: 1362416
Ion Ratio Lower Upper
105 100
120 25.3 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 13.491 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

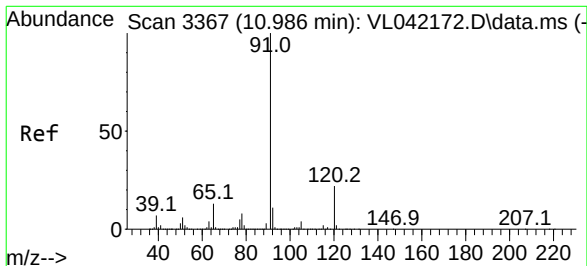
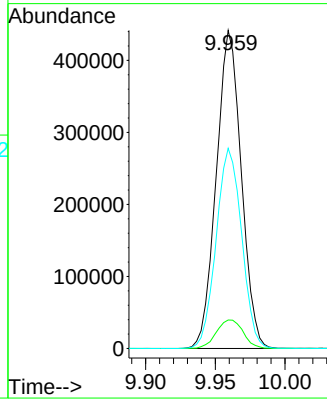
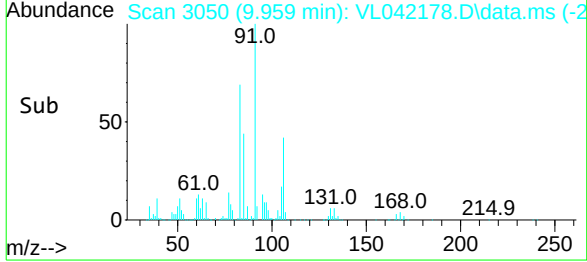
Instrument : MSVOA_L
ClientSampleId : VSTDIC015



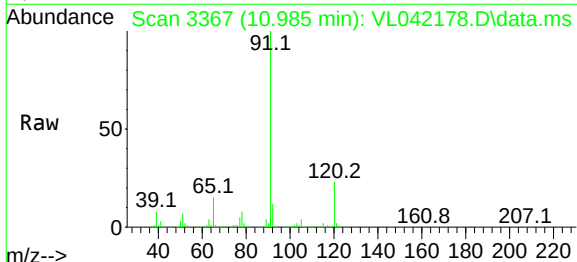
Tgt Ion: 83 Resp: 551386
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 64.2 32.5 97.5

Manual Integrations
APPROVED

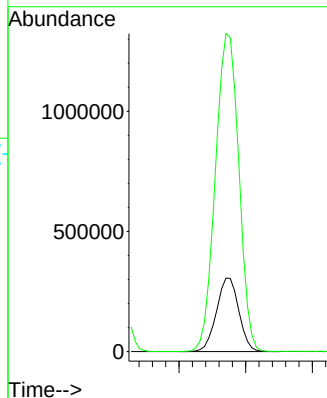
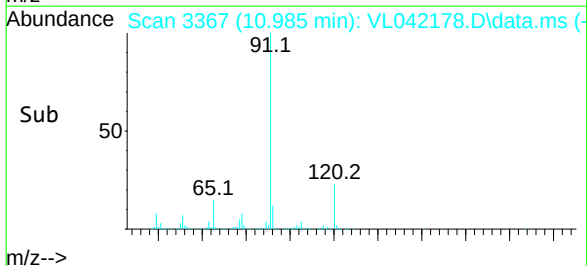
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

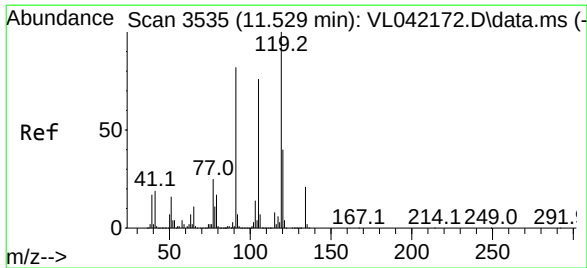


#64
n-propylbenzene
Concen: 13.753 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



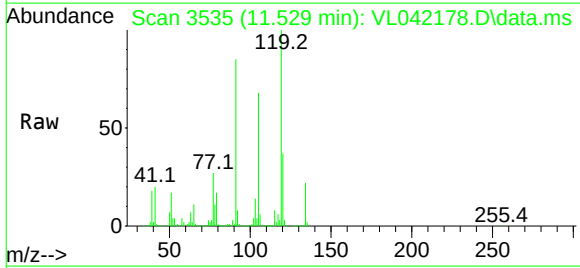
Tgt Ion:120 Resp: 356118
Ion Ratio Lower Upper
120 100
91 455.4 376.9 565.3





#65
tert-Butylbenzene
Concen: 12.901 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

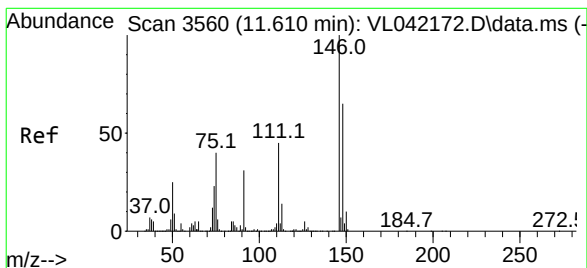
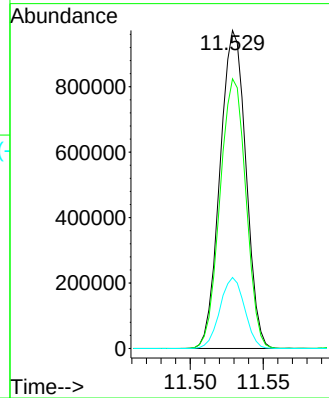
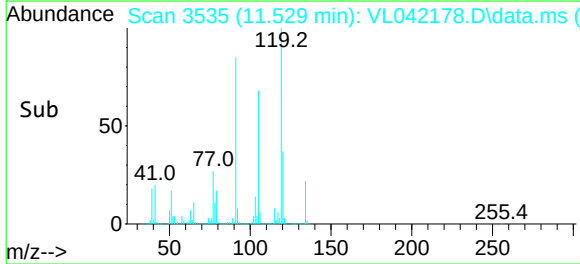
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 119 Resp: 1200149
Ion Ratio Lower Upper
119 100
91 84.6 66.0 99.0
134 21.2 16.7 25.1

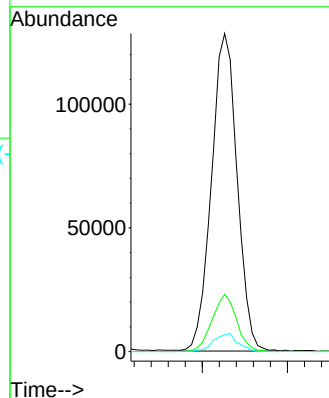
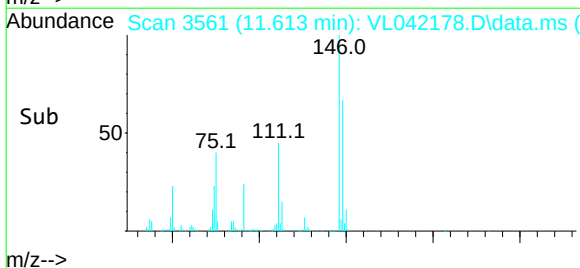
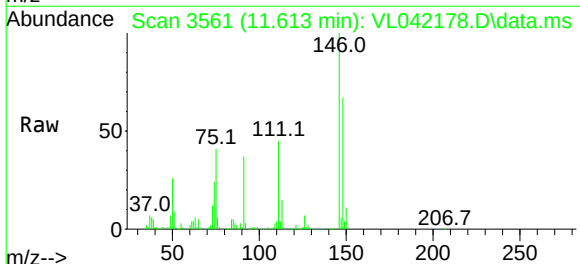
Manual Integrations
APPROVED

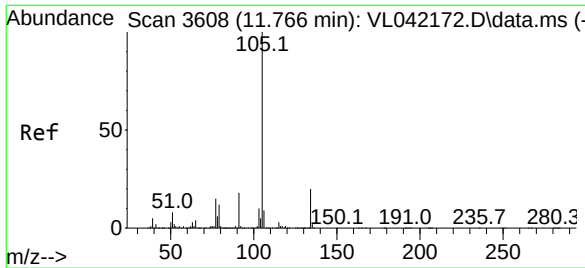
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66
Benzyl Chloride
Concen: 13.615 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

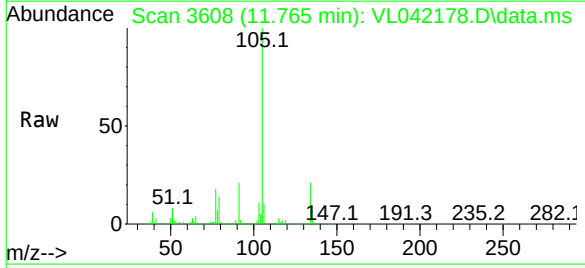
Tgt Ion: 91 Resp: 134397
Ion Ratio Lower Upper
91 100
126 17.3 13.8 20.6
128 5.4 4.5 6.7





#67
sec-Butylbenzene
Concen: 12.711 ppbv
RT: 11.765 min Scan# 3608
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

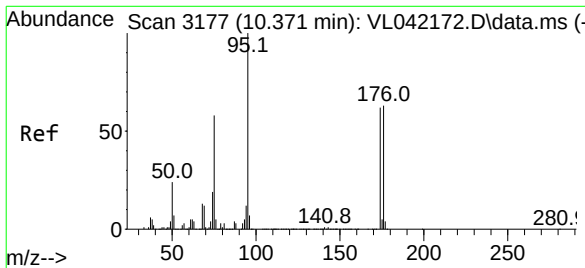
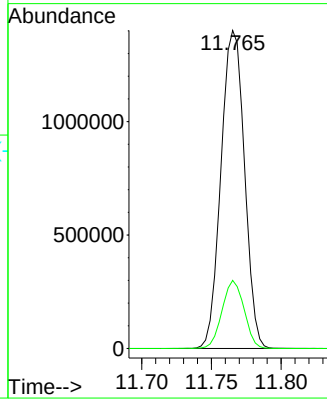
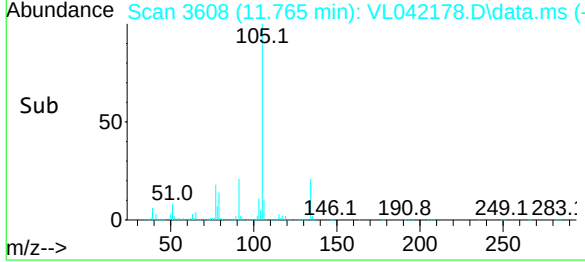
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 105 Resp: 1643629
Ion Ratio Lower Upper
105 100
134 20.0 15.5 23.3

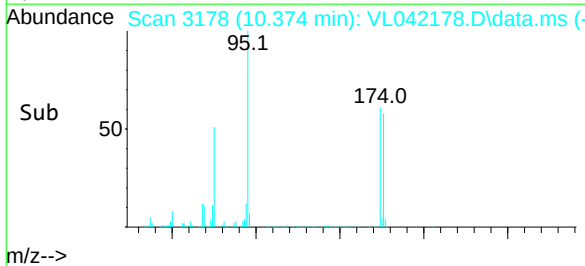
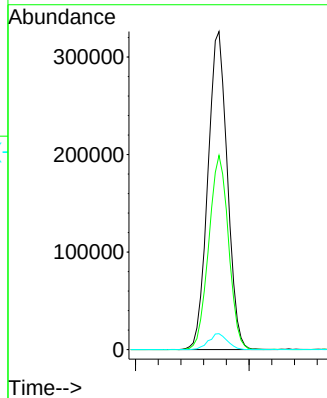
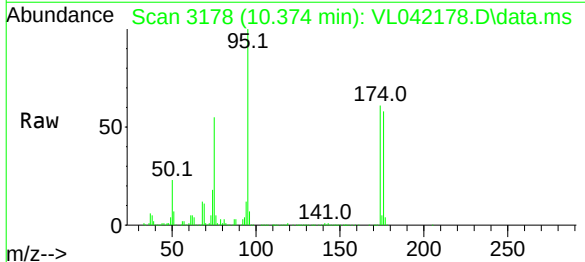
Manual Integrations
APPROVED

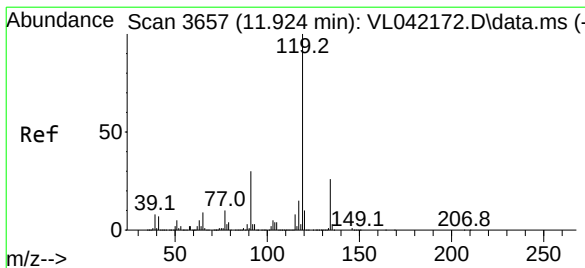
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.981 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Tgt Ion: 95 Resp: 387777
Ion Ratio Lower Upper
95 100
174 62.1 50.6 76.0
175 4.8 3.8 5.6





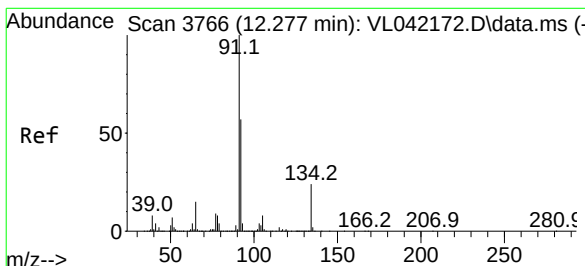
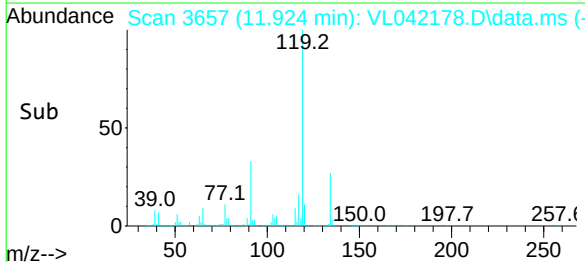
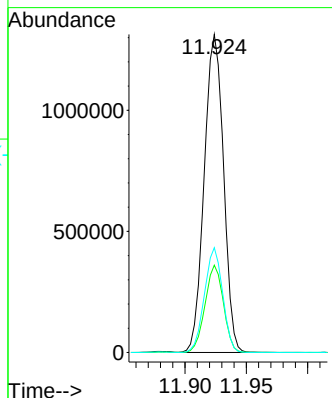
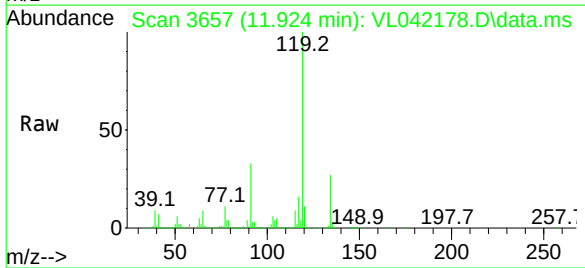
#69
p-Isopropyltoluene
Concen: 12.906 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 119 Resp: 1437016
Ion Ratio Lower Upper
119 100
134 26.2 20.4 30.6
91 31.2 23.7 35.5

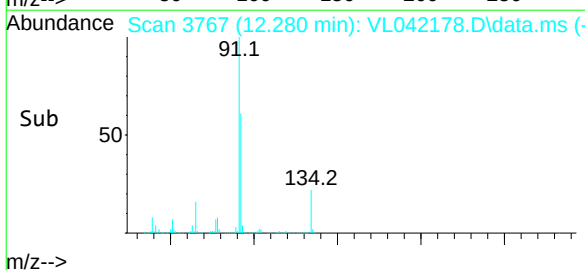
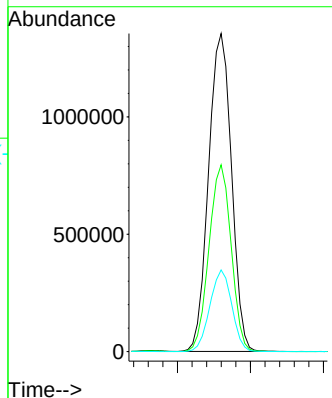
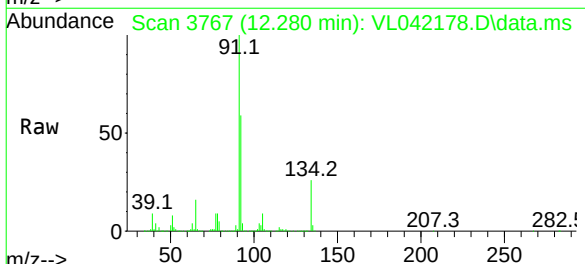
Manual Integrations
APPROVED

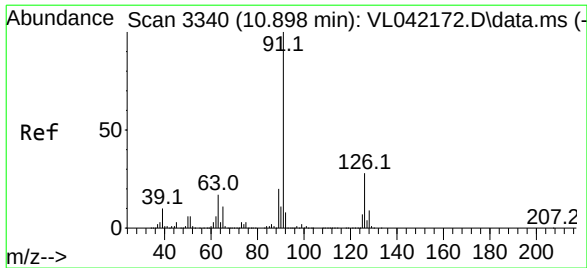
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#70
n-Butylbenzene
Concen: 12.975 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

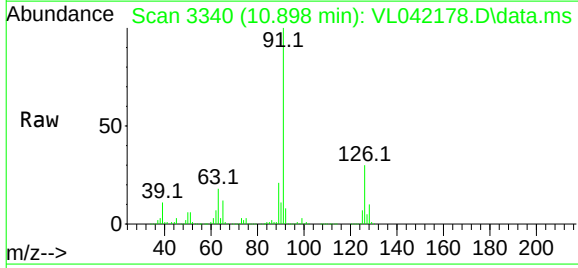
Tgt Ion: 91 Resp: 1477443
Ion Ratio Lower Upper
91 100
92 57.0 44.9 67.3
134 24.6 19.2 28.8





#71
2-Chlorotoluene
Concen: 13.724 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

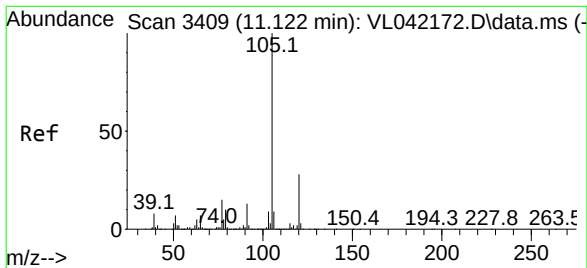
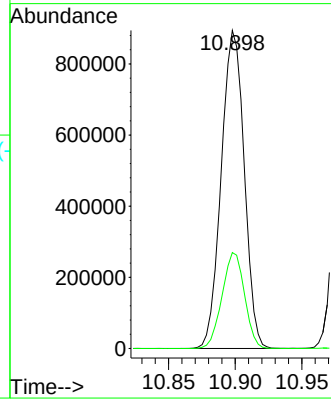
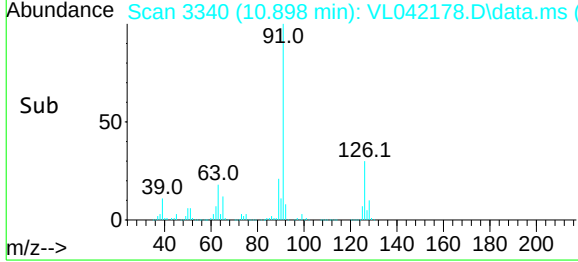
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



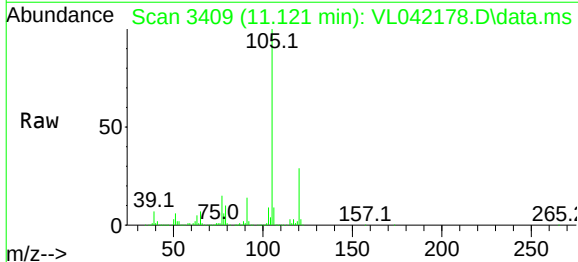
Tgt Ion: 91 Resp: 1071432
Ion Ratio Lower Upper
91 100
126 29.5 11.6 46.4

Manual Integrations
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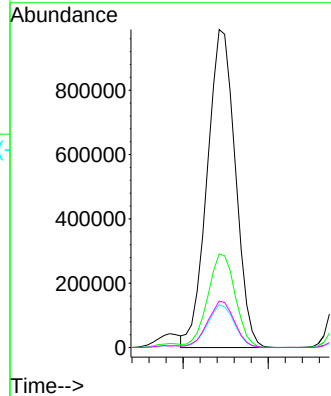
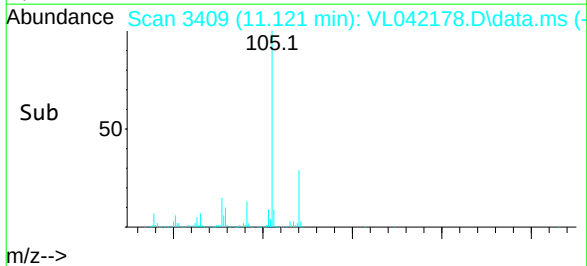
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

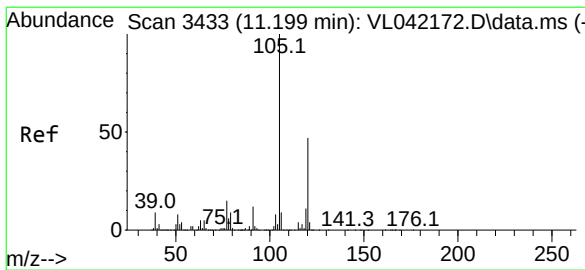


#72
4-Ethyltoluene
Concen: 13.569 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion:105 Resp: 1136415
Ion Ratio Lower Upper
105 100
120 30.1 23.4 35.0
91 13.5 10.3 15.5
77 14.6 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 13.395 ppbv

RT: 11.202 min Scan# 3433

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion:105 Resp: 979783

Ion Ratio Lower Upper

105 100

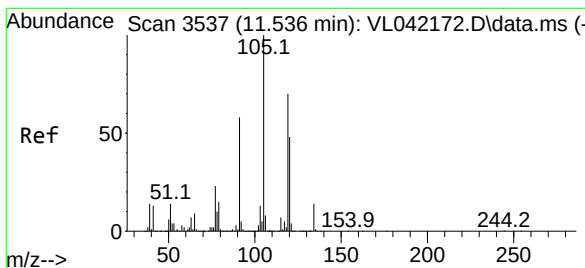
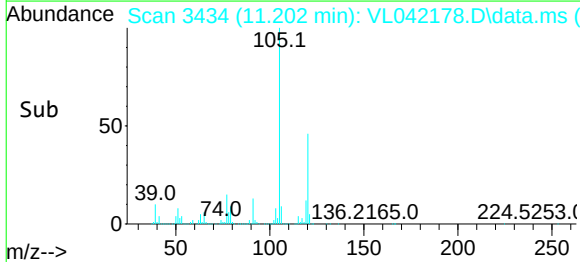
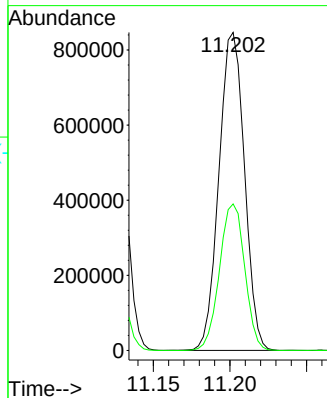
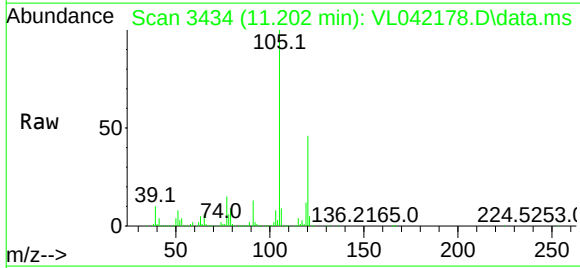
120 46.1 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 12.447 ppbv

RT: 11.535 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Tgt Ion:105 Resp: 1048874

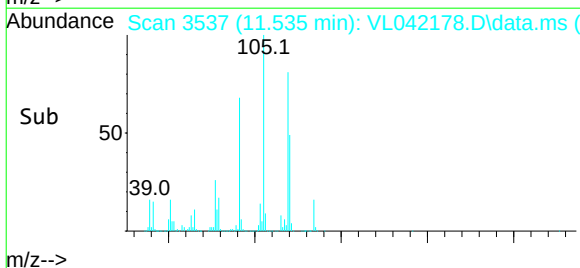
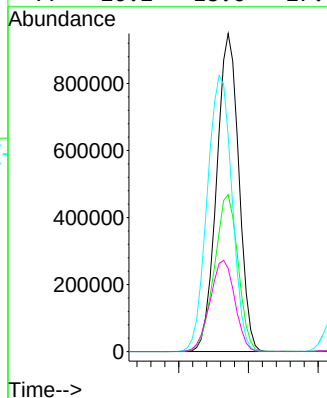
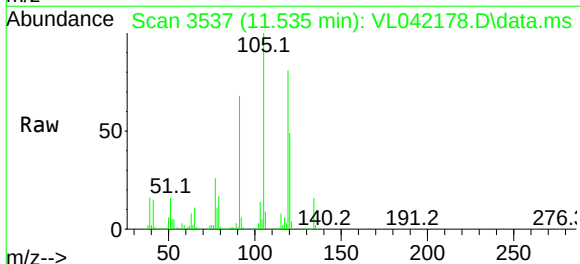
Ion Ratio Lower Upper

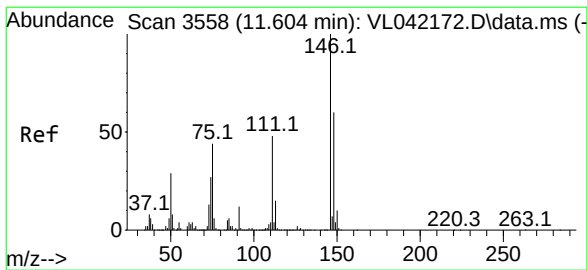
105 100

120 49.3 38.6 58.0

91 67.8 46.2 69.2

77 26.2 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 13.545 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

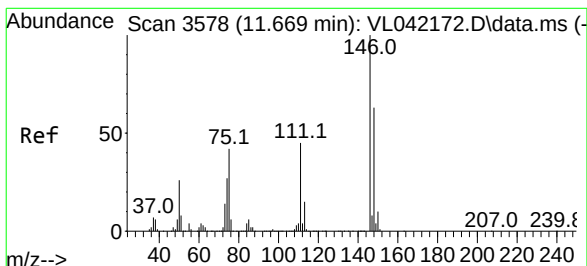
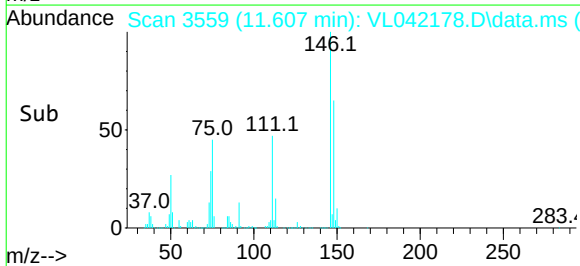
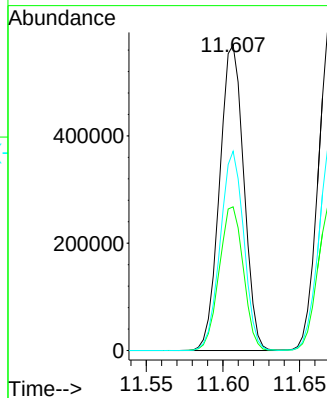
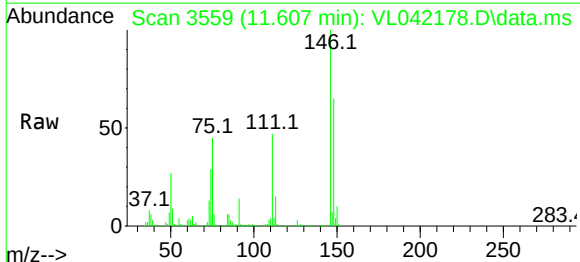
VSTDICC015

Tgt Ion:	146	Resp:	626015
Ion Ratio	Lower	Upper	
146	100		
111	47.0	23.8	71.2
148	63.5	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 13.668 ppbv

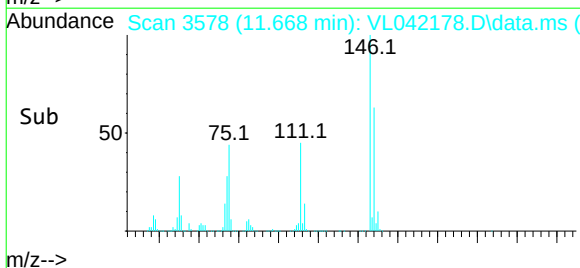
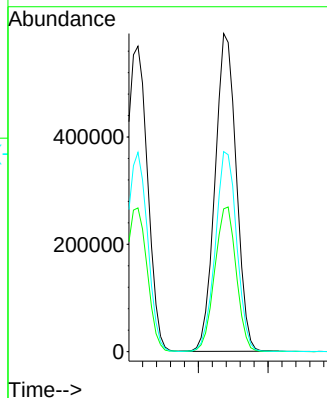
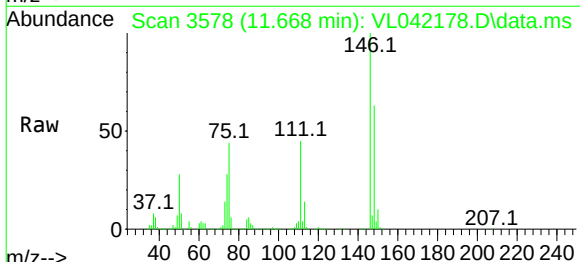
RT: 11.668 min Scan# 3578

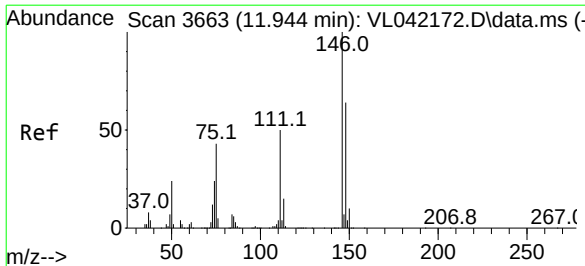
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

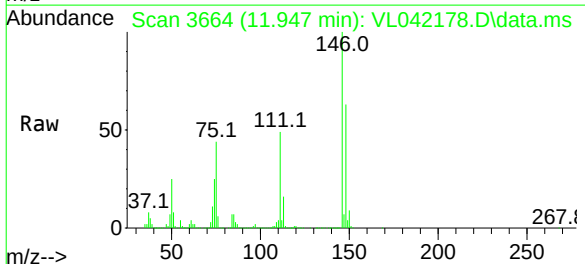
Tgt Ion:	146	Resp:	628694
Ion Ratio	Lower	Upper	
146	100		
111	46.1	23.0	69.0
148	63.6	31.9	95.7





#77
1,2-Dichlorobenzene
Concen: 13.396 ppbv
RT: 11.947 min Scan# 3663
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

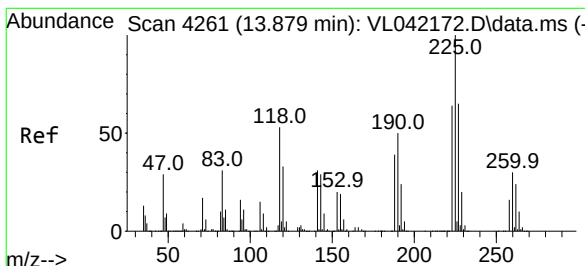
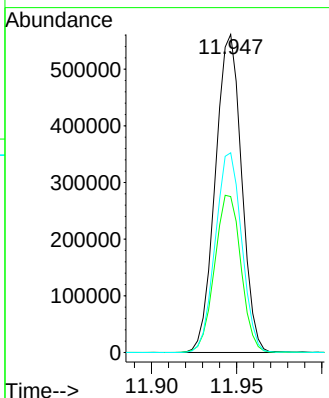
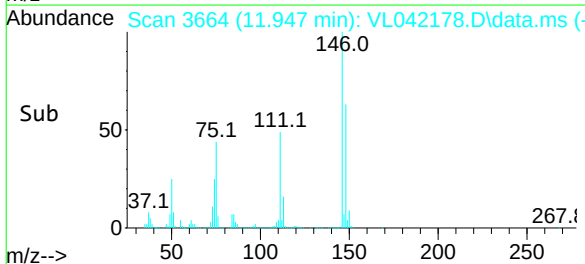
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



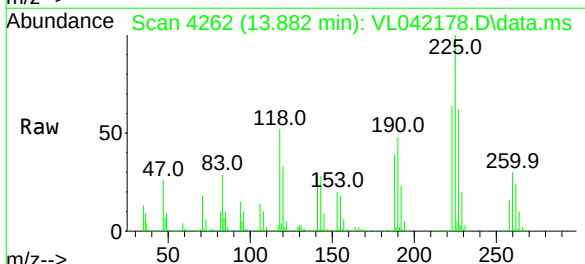
Tgt Ion:146 Resp: 602844
Ion Ratio Lower Upper
146 100
111 49.7 24.8 74.3
148 63.3 31.6 94.8

Manual Integrations
APPROVED

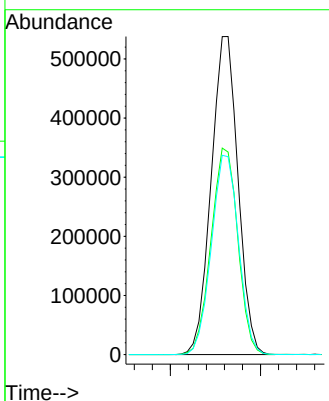
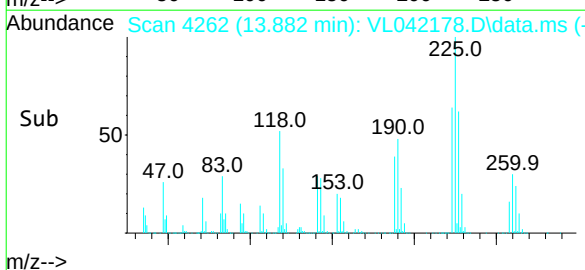
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

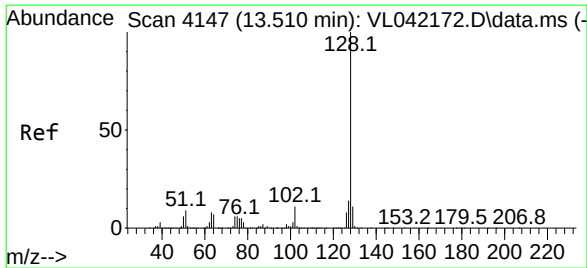


#78
Hexachloro-1,3-Butadiene
Concen: 12.147 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36



Tgt Ion:225 Resp: 556392
Ion Ratio Lower Upper
225 100
223 64.7 50.6 76.0
227 63.3 51.2 76.8





#79

Naphthalene

Concen: 13.653 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

Instrument :

MSVOA_L

ClientSampleId :

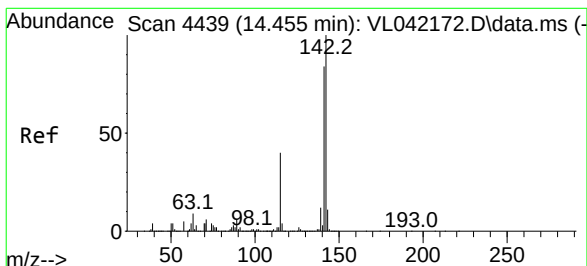
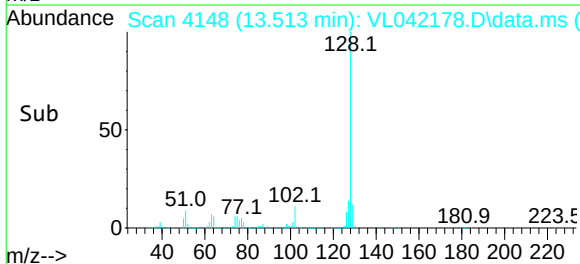
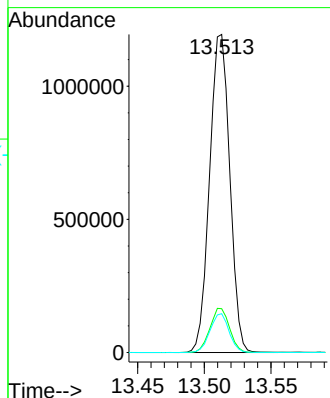
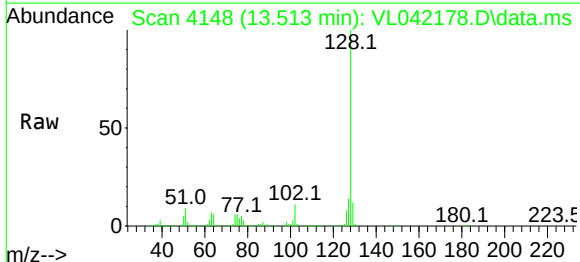
VSTDICC015

Tgt Ion:	128	Resp:	1258479
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.8	16.2
129	12.2	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene,2-methyl-

Concen: 16.018 ppbv

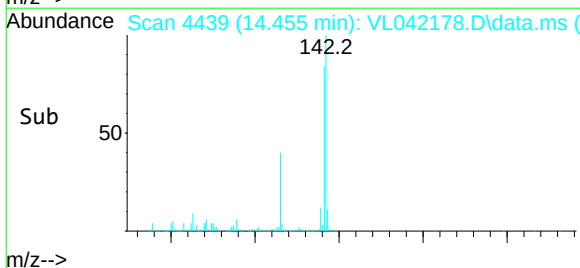
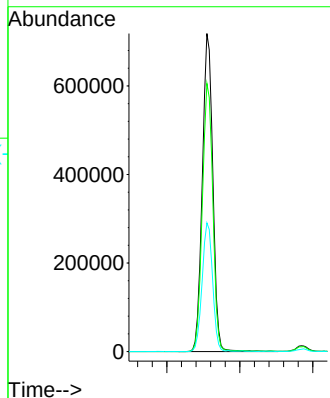
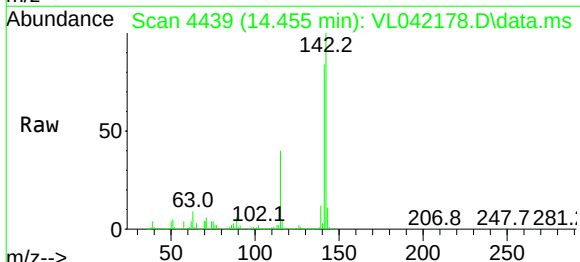
RT: 14.455 min Scan# 4439

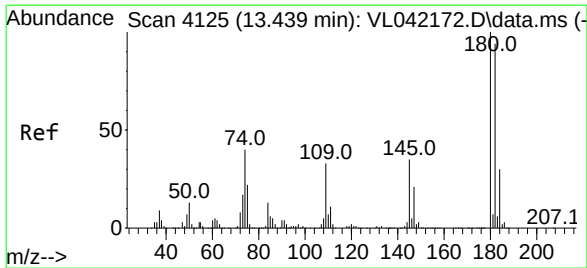
Delta R.T. -0.000 min

Lab File: VL042178.D

Acq: 27 Mar 2025 11:36

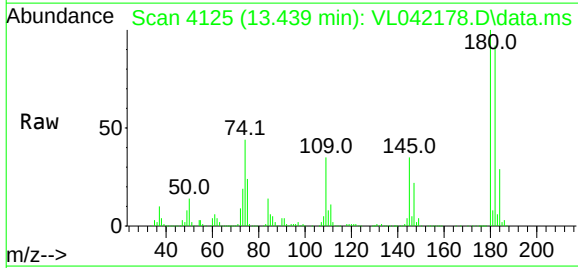
Tgt Ion:	142	Resp:	718900
Ion	Ratio	Lower	Upper
142	100		
141	84.3	66.3	99.5
115	40.6	31.6	47.4





#81
1,2,4-Trichlorobenzene
Concen: 14.075 ppbv
RT: 13.439 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042178.D
Acq: 27 Mar 2025 11:36

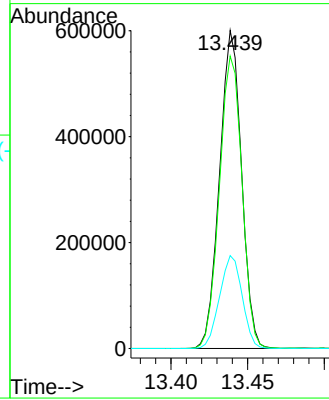
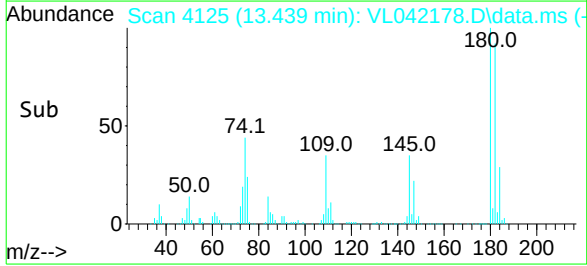
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:180 Resp: 598416
Ion Ratio Lower Upper
180 100
182 94.7 75.1 112.7
184 30.1 24.4 36.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	174350	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	498105	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473357	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	379929	9.774	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	245714	9.545	ppbv	100
3) Chlorodifluoromethane	1.473	51	247046	9.394	ppbv	97
4) Chloromethane	1.531	50	98527	9.365	ppbv	98
5) Vinyl Chloride	1.577	62	95578	8.573	ppbv	97
6) Bromomethane	1.667	94	41950	8.799	ppbv	97
7) Chloroethane	1.703	64	37400	8.856	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	213819	9.753	ppbv	95
9) Propene	1.483	41	105338	8.739	ppbv	99
10) Heptane	4.972	43	298768	9.318	ppbv	100
11) Trichlorofluoromethane	1.874	101	236793	9.453	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	193965	9.421	ppbv	98
13) Ethanol	1.719	45	5773	5.066	ppbv	97
14) Bromoethene	1.780	108	73572	9.328	ppbv	97
15) Acetone	1.832	43	198300	8.132	ppbv	98
16) 1,3-Butadiene	1.606	39	97840	8.216	ppbv	99
17) tert-Butyl alcohol	2.039	59	276195	9.094	ppbv	99
18) 1,1-Dichloroethene	2.033	96	87137	9.053	ppbv	89
19) Isopropyl Alcohol	1.884	45	122768	8.923	ppbv	98
20) Methylene Chloride	2.059	84	72813	8.018	ppbv	97
21) Allyl Chloride	2.094	41	157418	9.154	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	101141	9.092	ppbv	93
23) Vinyl Acetate	2.460	43	90260	8.553	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	197968	9.600	ppbv	99
25) Ethyl Acetate	2.832	43	592585	9.364	ppbv	99
26) Hexane	2.823	57	231125	9.455	ppbv	99
27) Carbon Disulfide	2.146	76	248834	9.493	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	146470	9.624	ppbv	95
29) Chloroform	2.845	83	344106	9.619	ppbv	100
30) Cyclohexane	3.852	84	197897	9.323	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	234487	9.449	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	365364	8.921	ppbv	99
34) 2-Butanone	2.554	43	331236	9.171	ppbv	99
35) Carbon Tetrachloride	3.758	117	363392	9.339	ppbv	98
36) Benzene	3.651	78	461261	9.341	ppbv	99
37) 1,2-Dichloroethane	3.217	62	273559	9.676	ppbv	99
38) Trichloroethene	4.541	130	191746	9.306	ppbv	97
39) 1,2-Dichloropropane	4.311	63	170839	9.500	ppbv	95
40) 1,4-Dioxane	4.577	88	80592	8.443	ppbv #	97
41) Tetrahydrofuran	3.052	42	196163	9.431	ppbv	99
42) Bromodichloromethane	4.486	83	384006	9.853	ppbv	100
43) Methyl Methacrylate	4.878	69	195339	9.344	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	787400	9.436	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	212335	9.467	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	265101	9.643	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	183228	9.638	ppbv	98
48) Dibromochloromethane	7.383	129	322766	10.018	ppbv	100
49) Bromoform	9.480	173	285149	9.858	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	500791	8.749	ppbv	99
51) 2-Hexanone	7.432	43	410889	8.741	ppbv #	99
52) Tetrachloroethene	8.221	164	173420	8.855	ppbv	93
53) Toluene	6.927	91	556897	9.514	ppbv	99
54) 1,2-Dibromoethane	7.645	107	256930	9.695	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	249270	9.567	ppbv	99
57) Chlorobenzene	8.917	112	422531	9.411	ppbv	98
58) Ethyl Benzene	9.351	91	791360	9.412	ppbv	98
59) m/p-Xylene	9.548	91	1260340m	18.772	ppbv	
60) o-Xylene	9.959	91	632918	9.404	ppbv	99
61) Styrene	9.866	104	315910	9.488	ppbv	99
62) Isopropylbenzene	10.539	105	944938	9.388	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	382635	9.357	ppbv	99
64) n-propylbenzene	10.985	120	244547	9.439	ppbv	98
65) tert-Butylbenzene	11.529	119	843828	9.065	ppbv	98
66) Benzyl Chloride	11.613	91	86804	8.789	ppbv	97
67) sec-Butylbenzene	11.765	105	1172636	9.063	ppbv	100
69) p-Isopropyltoluene	11.924	119	1019694	9.153	ppbv	100
70) n-Butylbenzene	12.280	91	1038548	9.115	ppbv	100
71) 2-Chlorotoluene	10.898	91	732874	9.382	ppbv	100
72) 4-Ethyltoluene	11.125	105	785185	9.370	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	673541	9.203	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	729155	8.648	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	426573	9.224	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	426318	9.263	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412180	9.154	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	356386	7.776	ppbv	100
79) Naphthalene	13.513	128	773311	8.385	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	323443	7.151	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	363863	8.553	ppbv	98

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

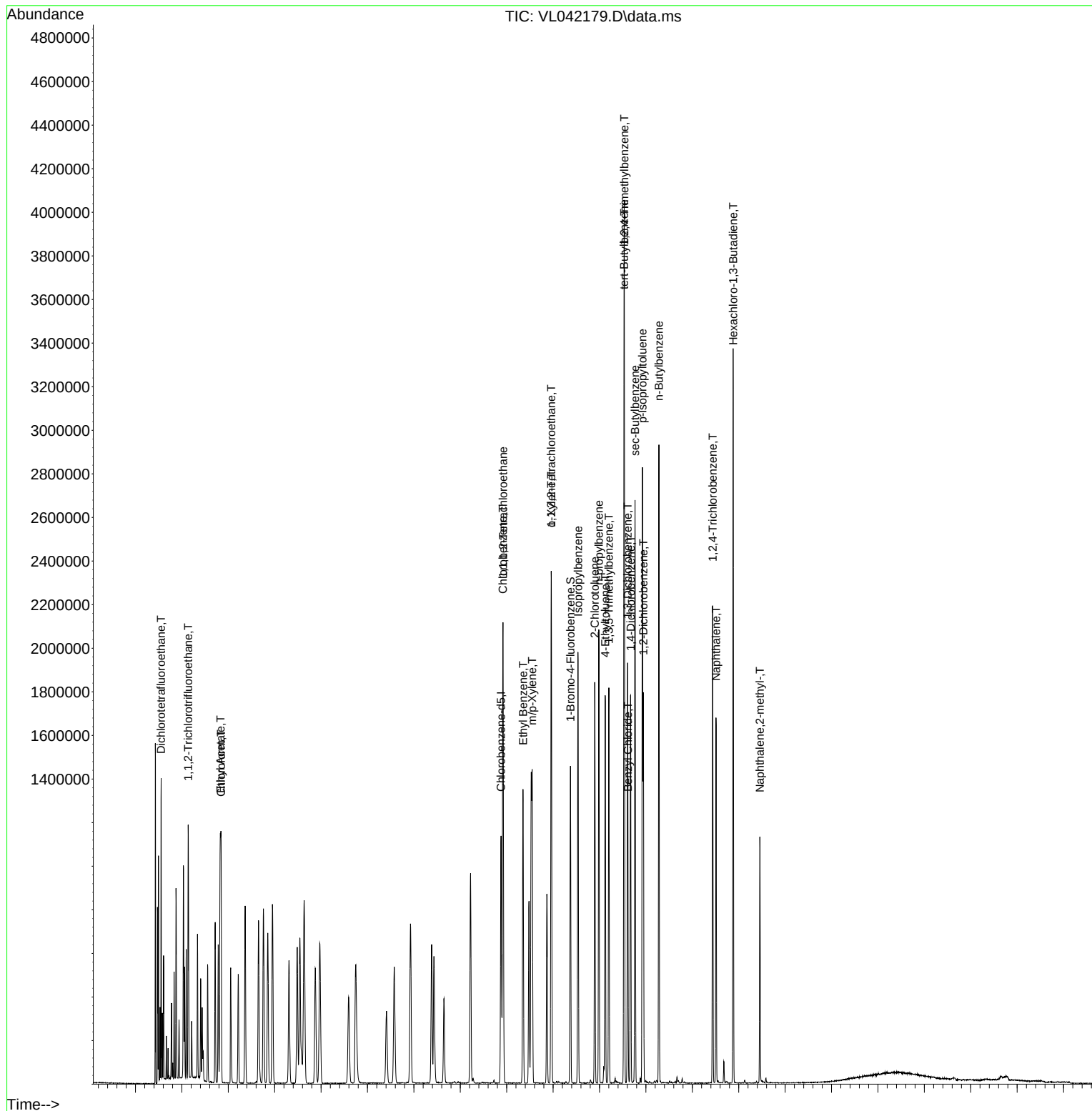
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Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

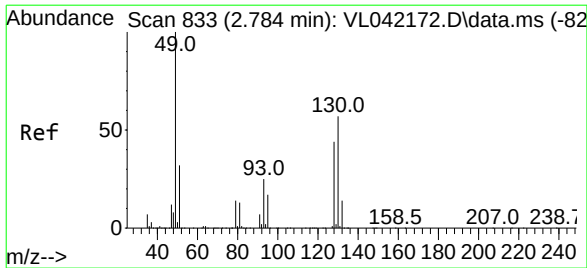
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

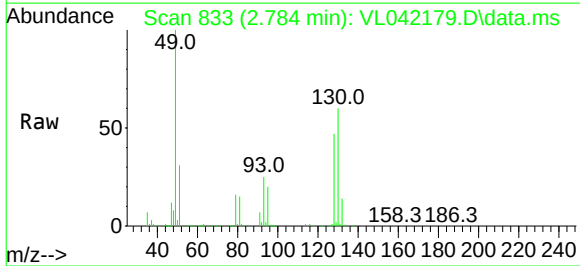
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

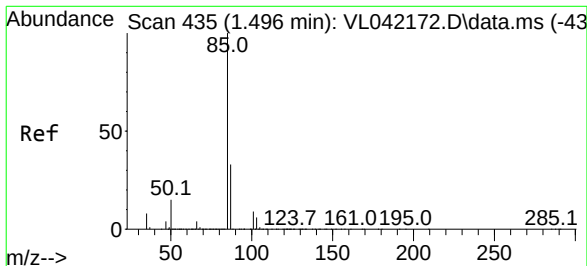
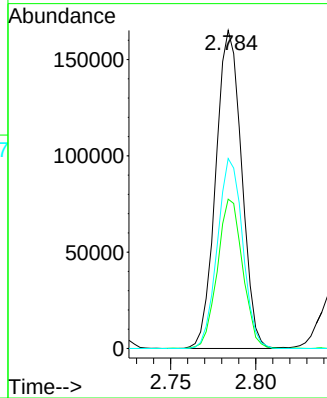
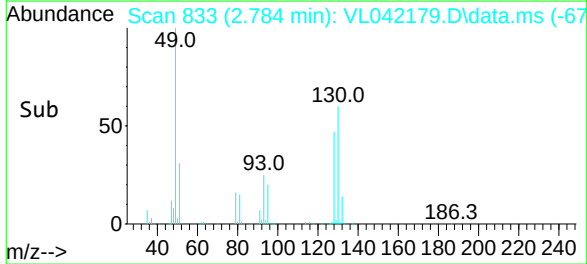
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



Tgt Ion: 49 Resp: 174356
Ion Ratio Lower Upper
49 100
128 45.8 22.9 68.5
130 58.4 28.8 86.4

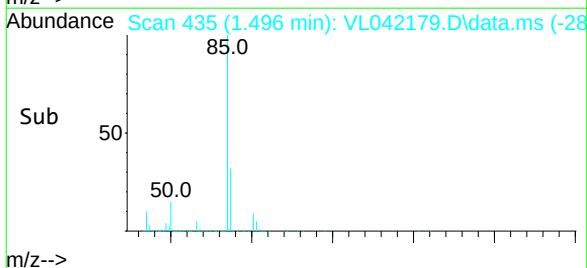
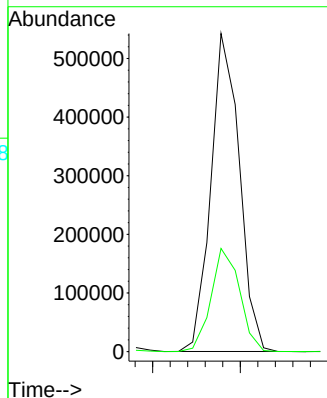
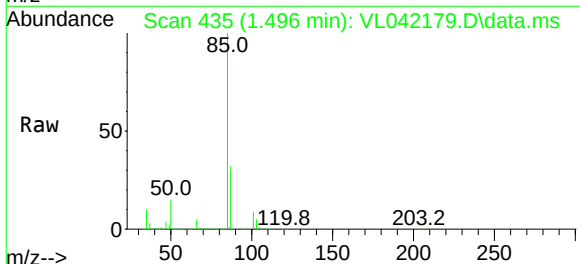
Manual Integrations
APPROVED

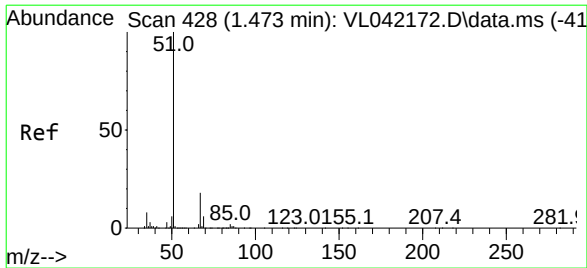
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#2
Dichlorodifluoromethane
Concen: 9.545 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 85 Resp: 245714
Ion Ratio Lower Upper
85 100
87 32.4 26.1 39.1





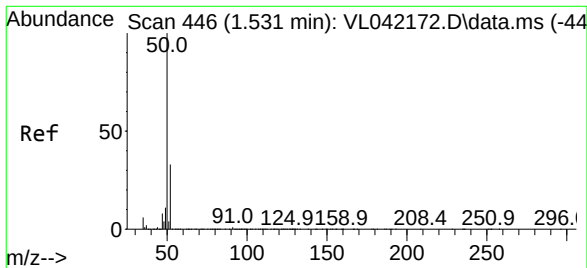
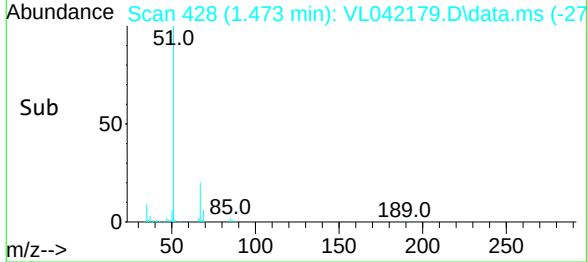
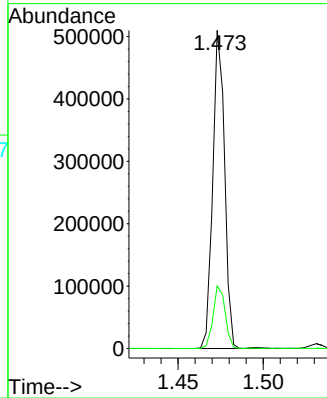
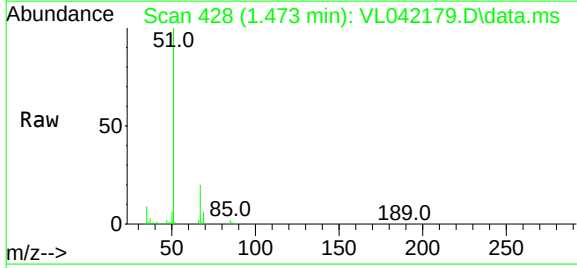
#3
Chlorodifluoromethane
Concen: 9.394 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 51 Resp: 247046
Ion Ratio Lower Upper
51 100
67 20.1 15.0 22.6

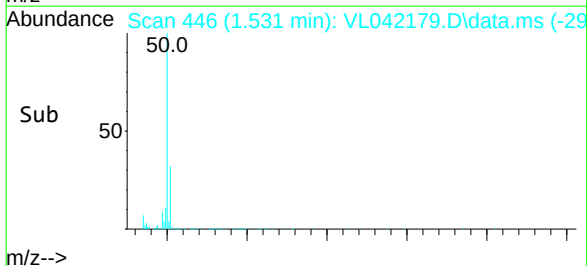
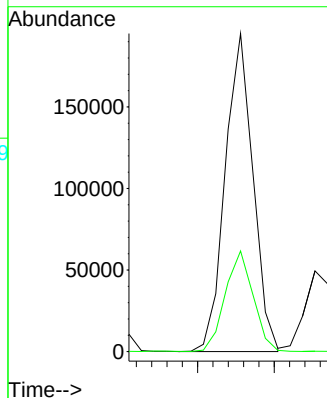
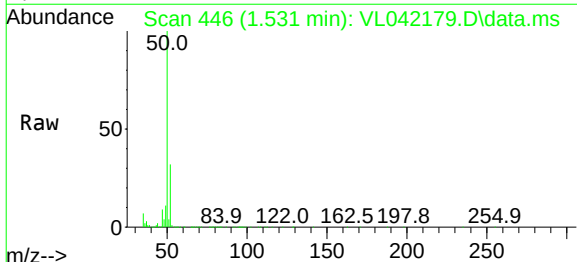
Manual Integrations
APPROVED

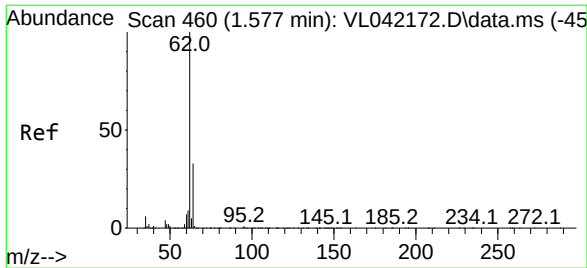
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#4
Chloromethane
Concen: 9.365 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 50 Resp: 98527
Ion Ratio Lower Upper
50 100
52 31.6 26.1 39.1





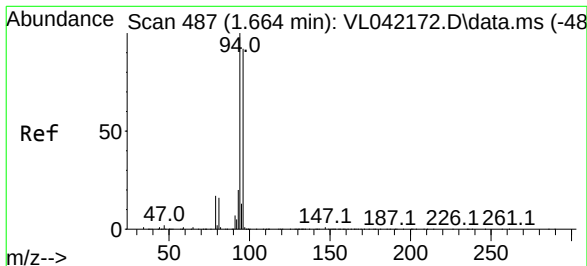
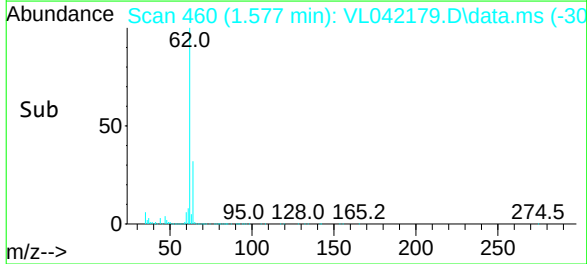
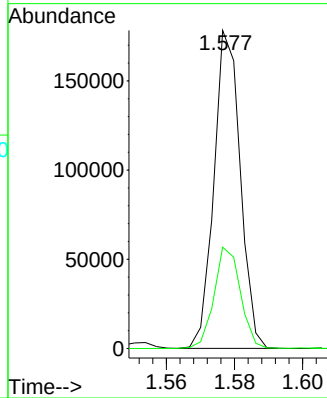
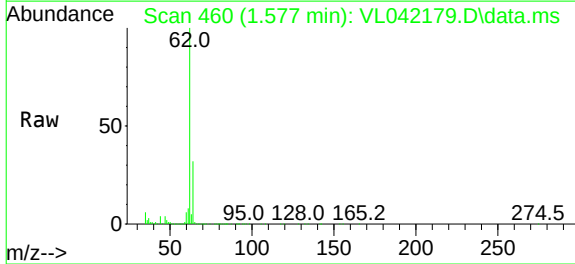
#5
 Vinyl Chloride
 Concen: 8.573 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument : MSVOA_1
 ClientSampleId : ICVVL032725

Tgt Ion: 62 Resp: 95578
 Ion Ratio Lower Upper
 62 100
 64 31.8 26.6 40.0

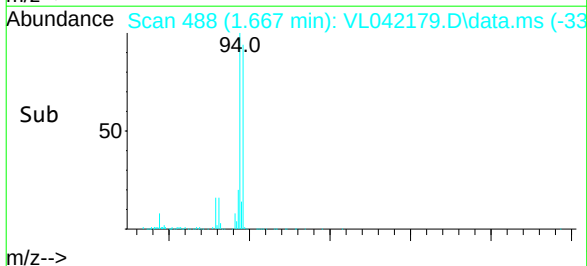
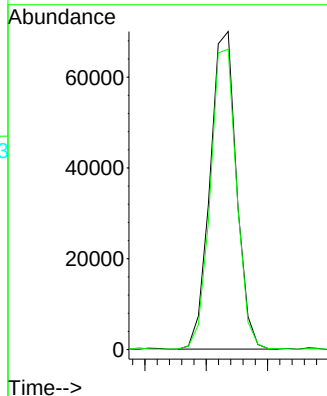
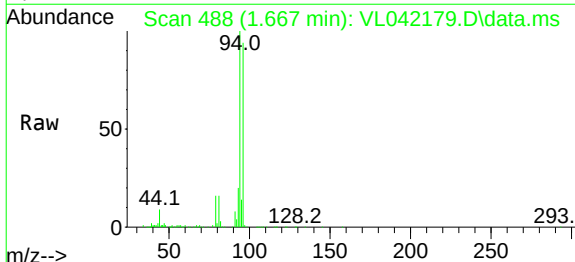
Manual Integrations
 APPROVED

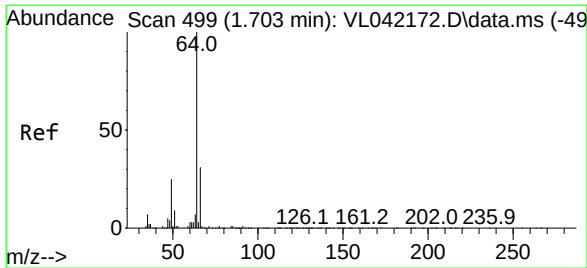
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#6
 Bromomethane
 Concen: 8.799 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 94 Resp: 41950
 Ion Ratio Lower Upper
 94 100
 96 94.4 73.1 109.7





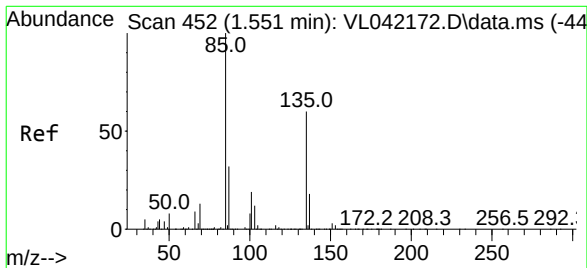
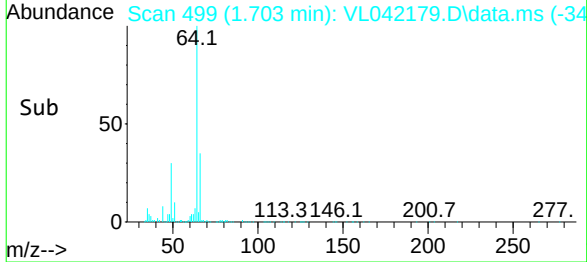
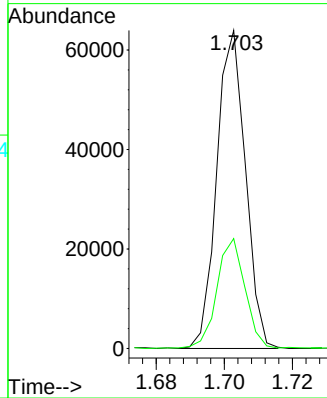
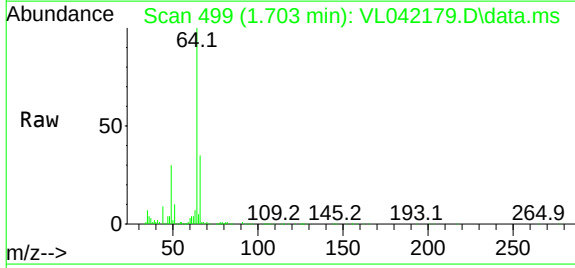
#7
Chloroethane
Concen: 8.856 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 64 Resp: 37400
Ion Ratio Lower Upper
64 100
66 34.5 25.2 37.8

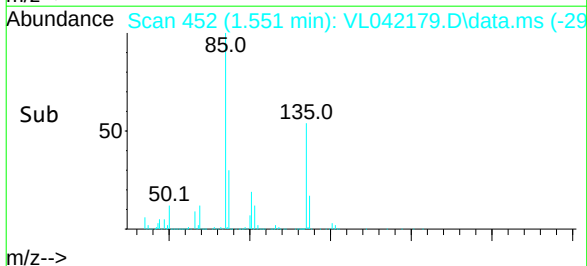
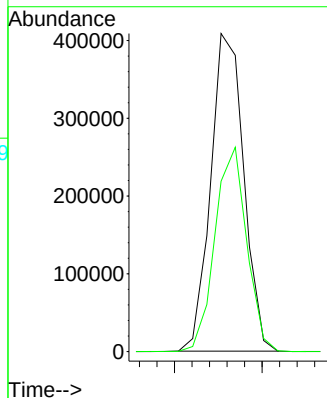
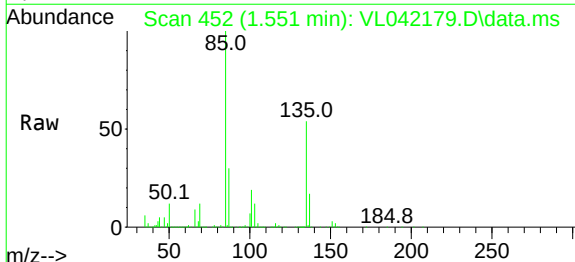
Manual Integrations
APPROVED

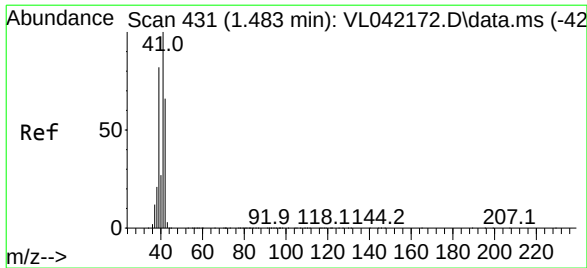
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#8
Dichlorotetrafluoroethane
Concen: 9.753 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

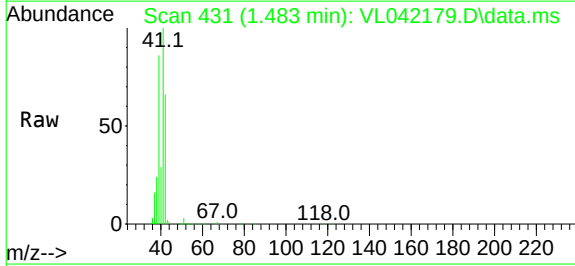
Tgt Ion: 85 Resp: 213819
Ion Ratio Lower Upper
85 100
135 61.9 52.4 78.6





#9
 Propene
 Concen: 8.739 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

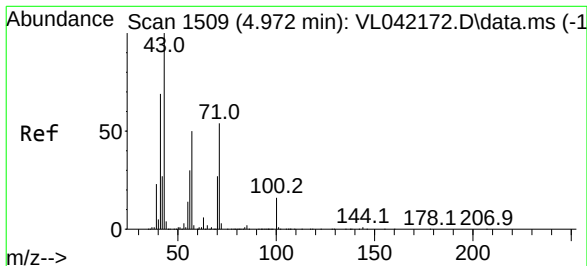
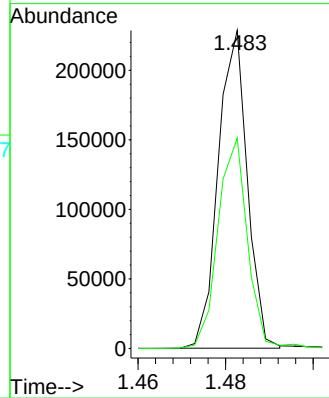
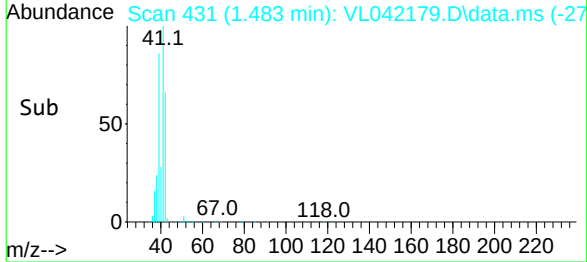
Instrument : MSVOA_L
 ClientSampleId : ICVVL032725



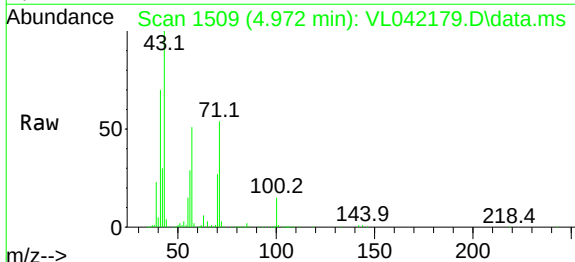
Tgt Ion: 41 Resp: 105338
 Ion Ratio Lower Upper
 41 100
 42 68.1 55.4 83.2

Manual Integrations
 APPROVED

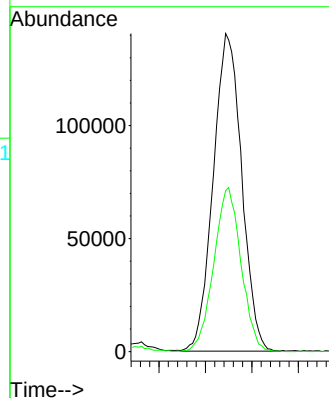
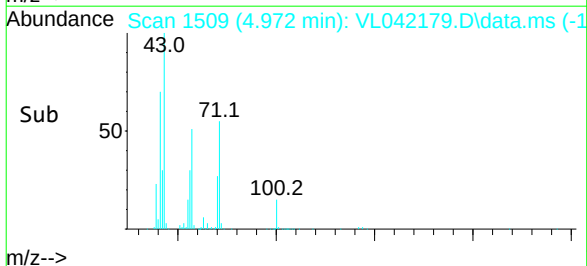
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

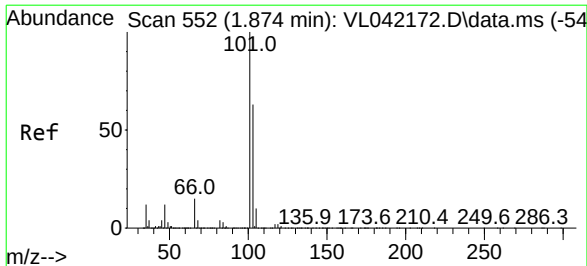


#10
 Heptane
 Concen: 9.318 ppbv
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23



Tgt Ion: 43 Resp: 298768
 Ion Ratio Lower Upper
 43 100
 57 49.5 39.4 59.2





#11

Trichlorofluoromethane

Concen: 9.453 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion:101 Resp: 236793

Ion Ratio Lower Upper

101 100

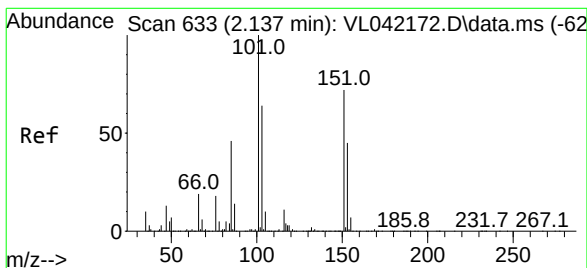
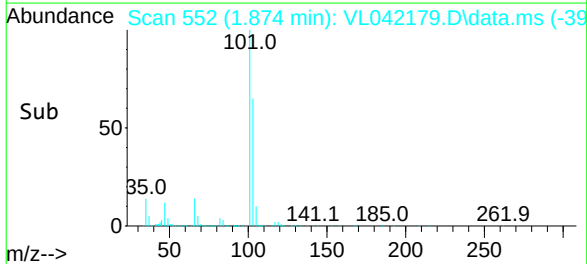
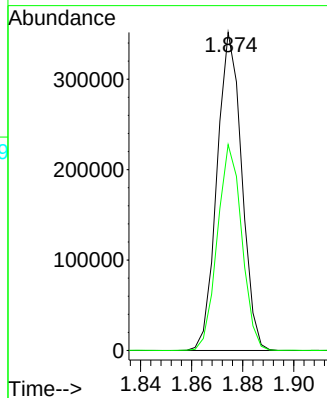
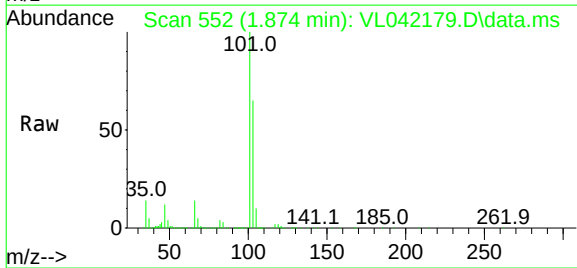
103 64.7 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.421 ppbv

RT: 2.136 min Scan# 633

Delta R.T. -0.000 min

Lab File: VL042179.D

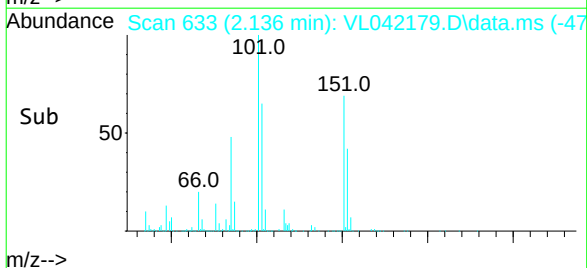
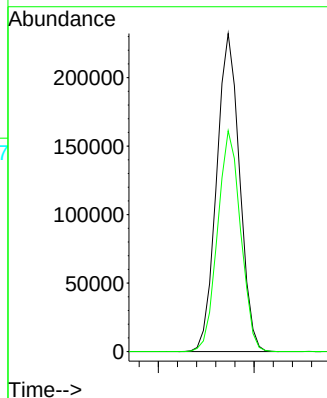
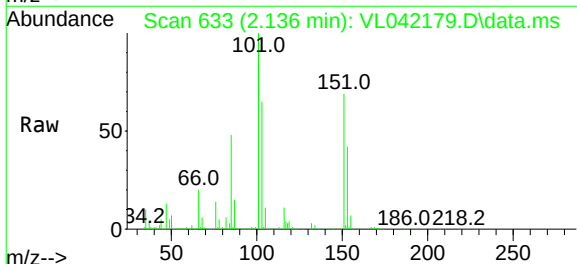
Acq: 27 Mar 2025 12:23

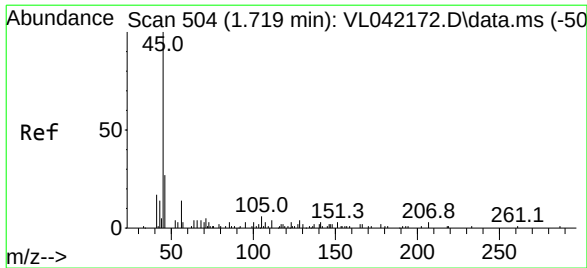
Tgt Ion:101 Resp: 193965

Ion Ratio Lower Upper

101 100

151 69.6 57.1 85.7





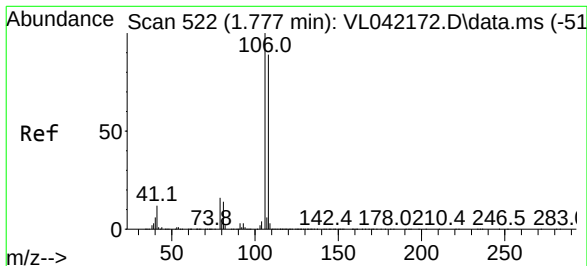
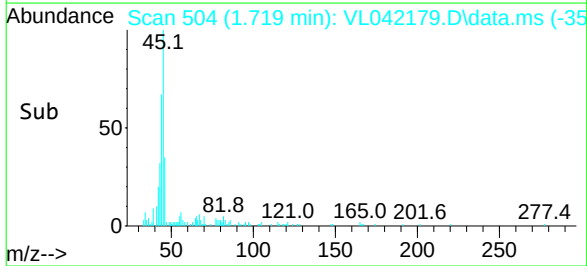
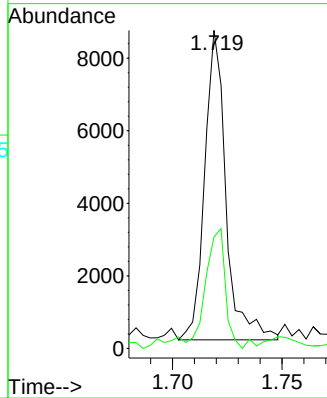
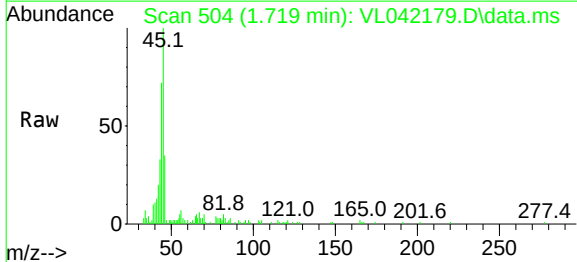
#13
Ethanol
Concen: 5.066 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 45 Resp: 5773
Ion Ratio Lower Upper
45 100
46 48.5 20.2 80.8

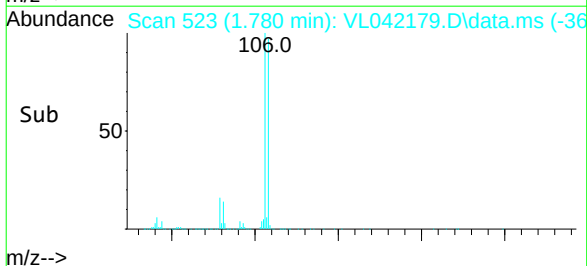
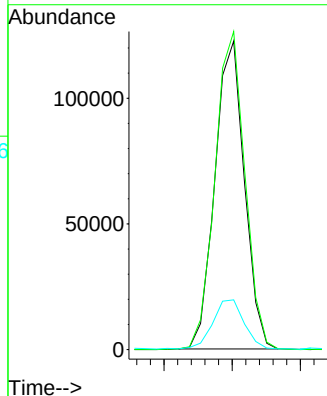
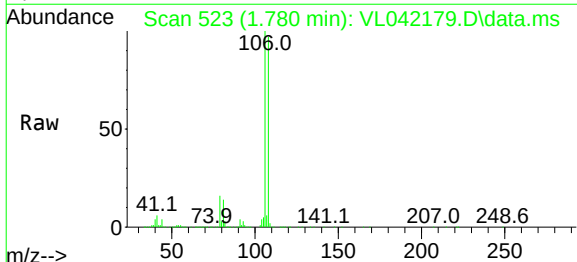
Manual Integrations
APPROVED

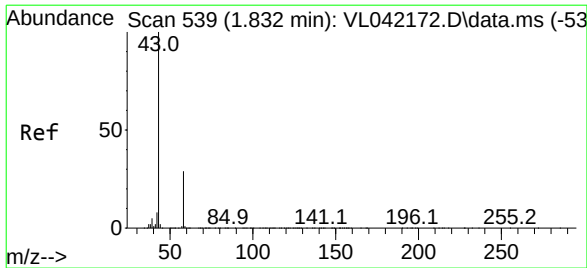
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#14
Bromoethene
Concen: 9.328 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:108 Resp: 73572
Ion Ratio Lower Upper
108 100
106 105.0 86.8 130.2
79 18.8 15.0 22.6





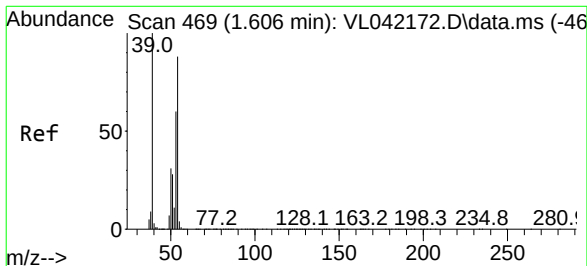
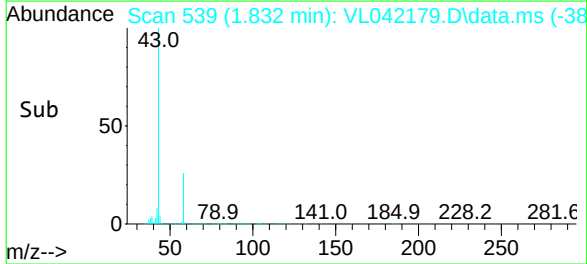
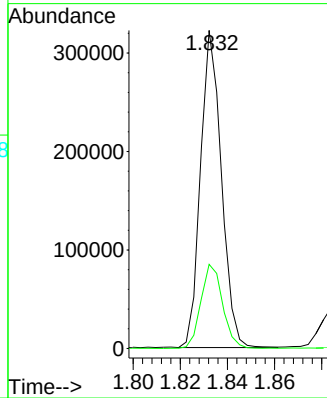
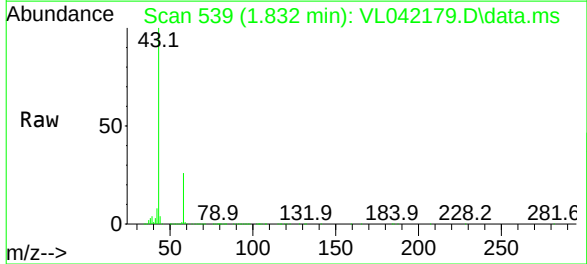
#15
Acetone
Concen: 8.132 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 43 Resp: 198300
Ion Ratio Lower Upper
43 100
58 27.7 23.2 34.8

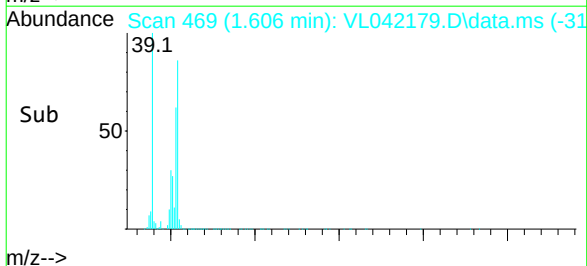
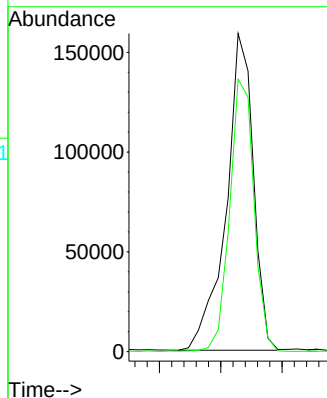
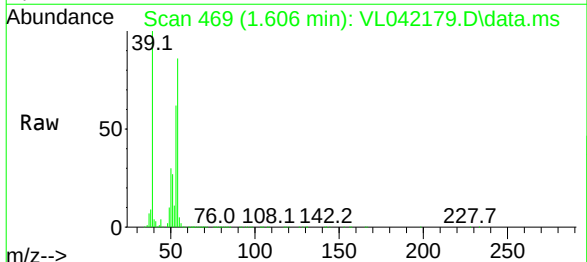
Manual Integrations
APPROVED

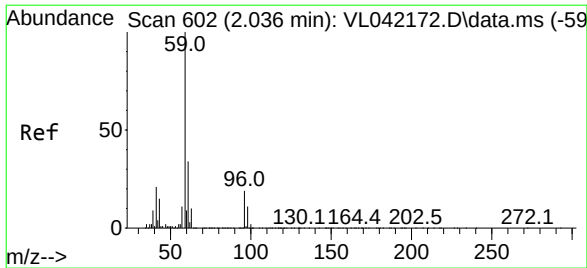
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#16
1,3-Butadiene
Concen: 8.216 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 39 Resp: 97840
Ion Ratio Lower Upper
39 100
54 76.9 60.7 91.1





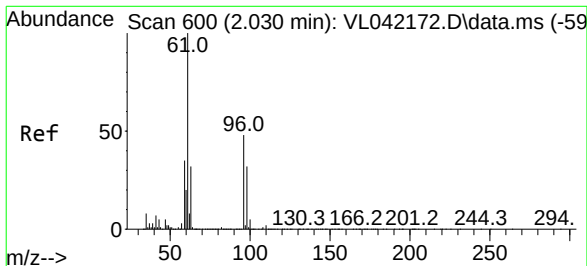
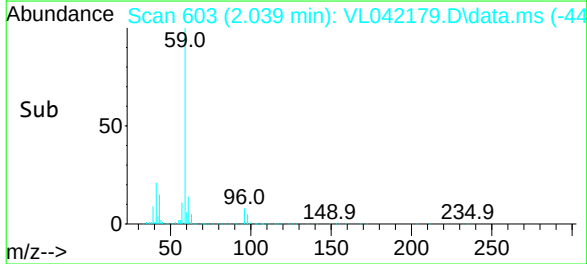
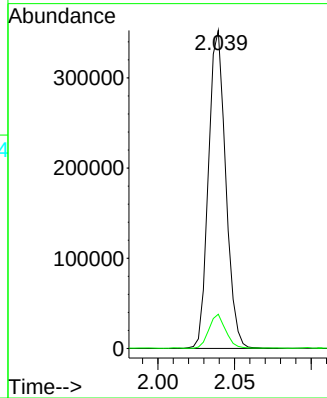
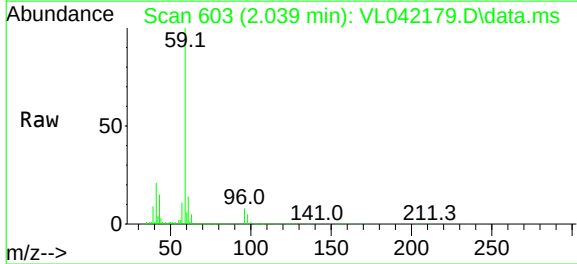
#17
tert-Butyl alcohol
Concen: 9.094 ppbv
RT: 2.039 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 59 Resp: 276195
Ion Ratio Lower Upper
59 100
57 10.6 8.9 13.3

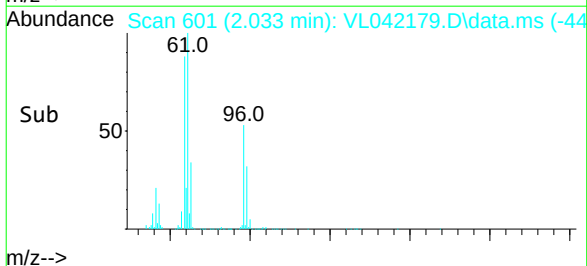
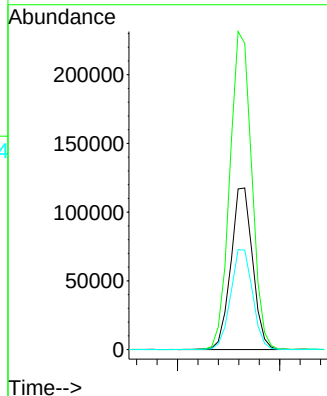
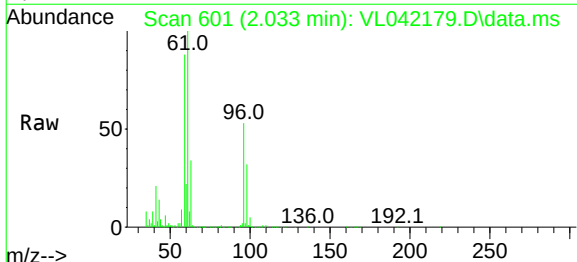
Manual Integrations
APPROVED

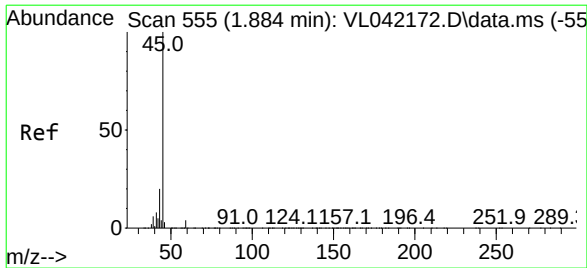
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#18
1,1-Dichloroethene
Concen: 9.053 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 96 Resp: 87137
Ion Ratio Lower Upper
96 100
61 189.6 167.6 251.4
98 61.5 53.5 80.3





#19
Isopropyl Alcohol
Concen: 8.923 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

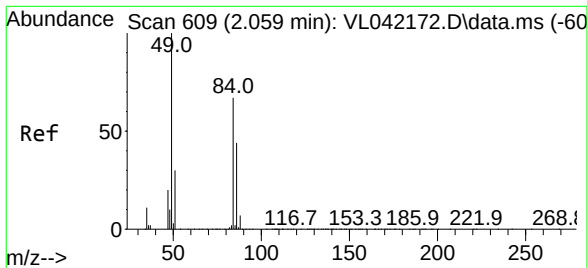
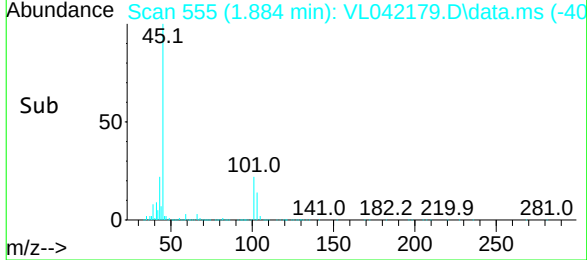
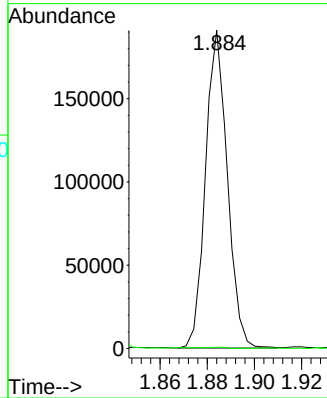
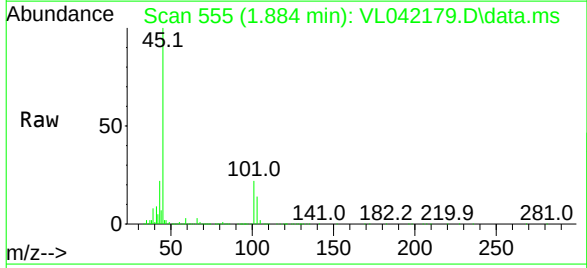
ClientSampleId :

ICVVL032725

Tgt Ion: 45 Resp: 122768
Ion Ratio Lower Upper
45 100
58 44.9 36.9 55.3

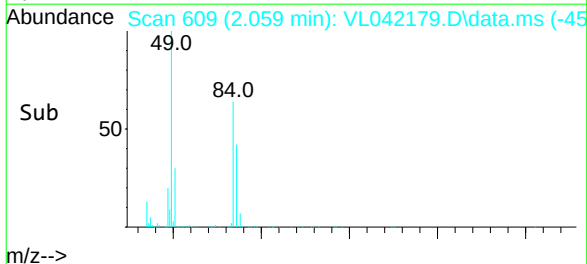
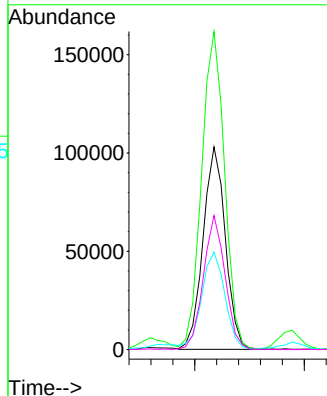
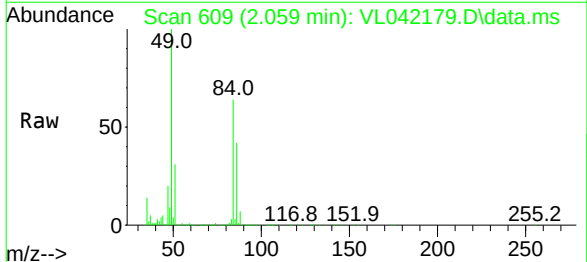
Manual Integrations
APPROVED

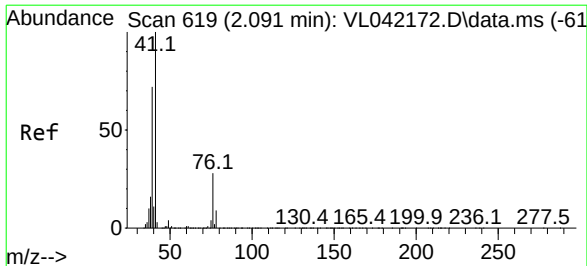
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#20
Methylene Chloride
Concen: 8.018 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 84 Resp: 72813
Ion Ratio Lower Upper
84 100
49 155.8 120.2 180.4
51 46.4 37.4 56.0
86 66.2 52.4 78.6





#21

Allyl Chloride

Concen: 9.154 ppbv

RT: 2.094 min Scan# 621

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

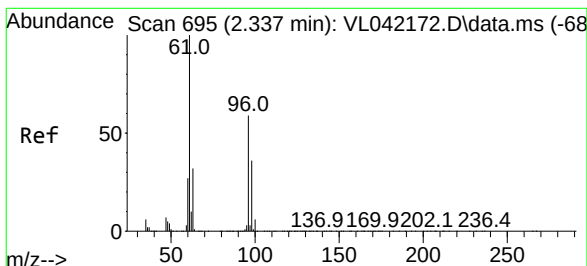
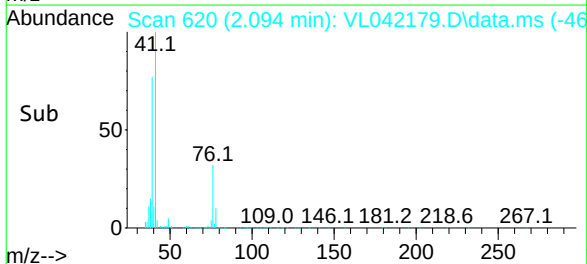
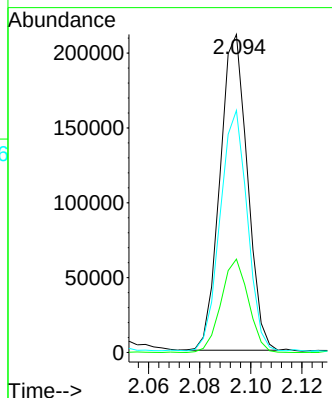
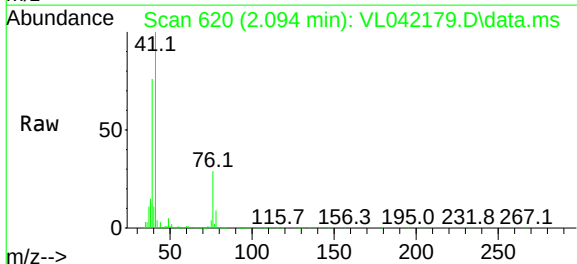
ClientSampleId :

ICVVL032725

Tgt Ion: 41	Resp: 157418
Ion Ratio	Lower Upper
41 100	
76 29.6	24.1 36.1
39 75.5	61.1 91.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#22

trans-1,2-Dichloroethene

Concen: 9.092 ppbv

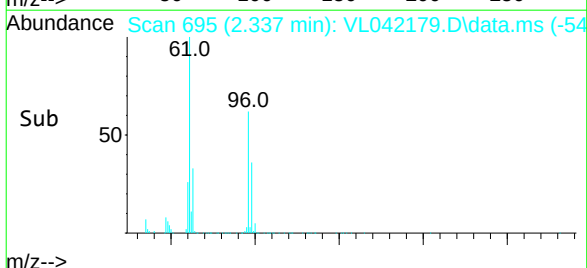
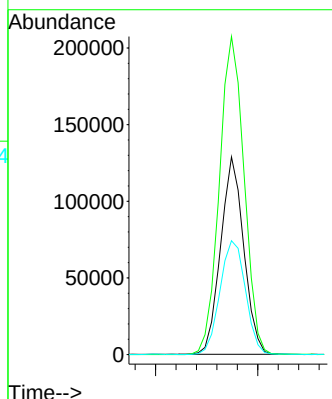
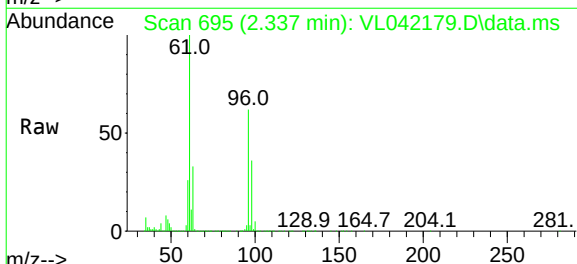
RT: 2.337 min Scan# 695

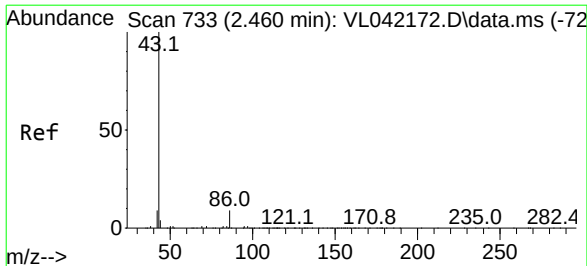
Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion: 96	Resp: 101141
Ion Ratio	Lower Upper
96 100	
61 161.2	136.6 204.8
98 57.7	49.4 74.2





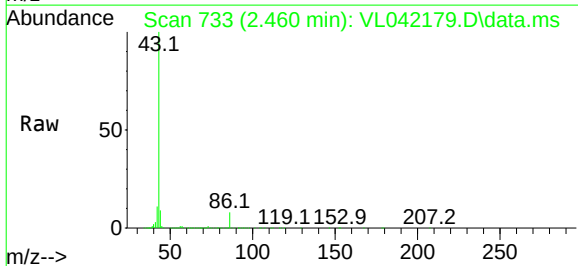
#23
 Vinyl Acetate
 Concen: 8.553 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

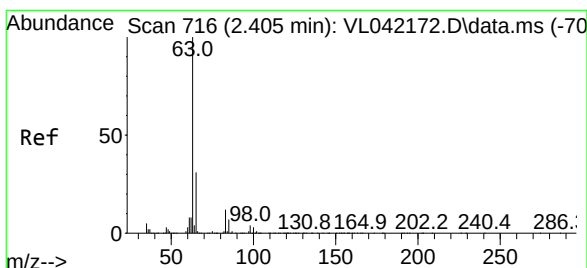
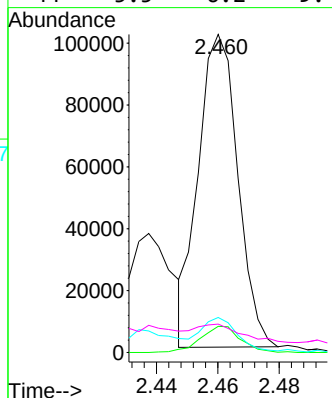
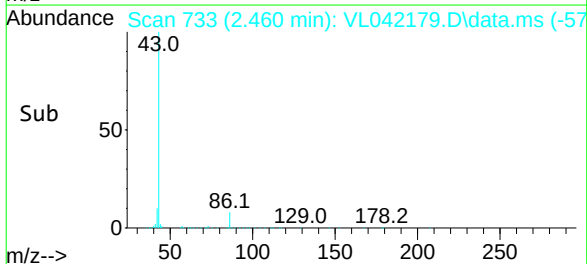
ICVVL032725



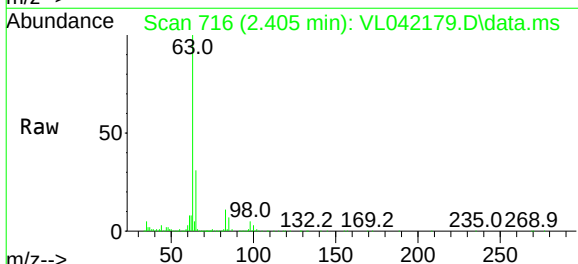
Tgt Ion:	43	Resp:	90260
Ion	Ratio	Lower	Upper
43	100		
86	8.3	5.5	8.3
42	10.7	8.6	13.0
44	5.5	6.2	9.4

Manual Integrations
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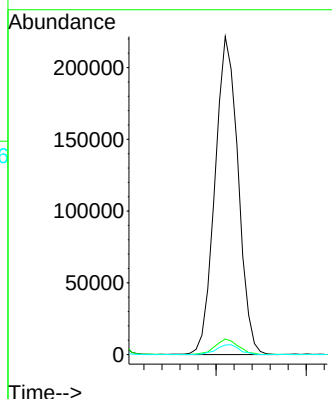
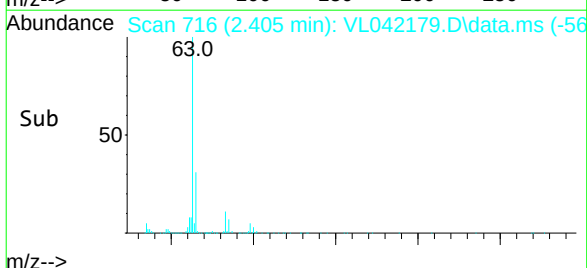
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

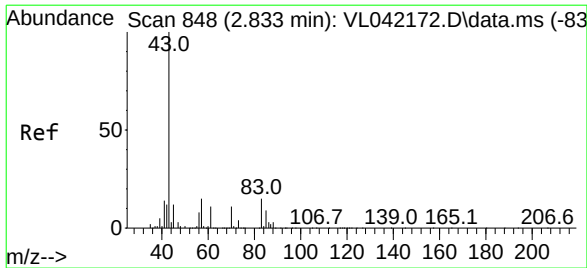


#24
 1,1-Dichloroethane
 Concen: 9.600 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23



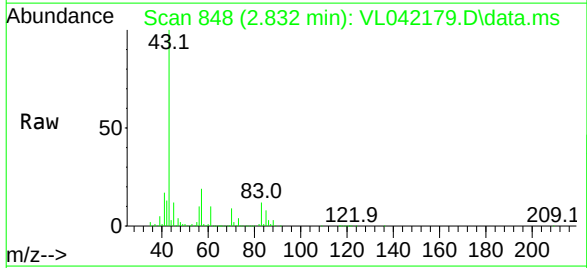
Tgt Ion:	63	Resp:	197968
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.3	6.8
100	3.0	1.6	4.7





#25
Ethyl Acetate
Concen: 9.364 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

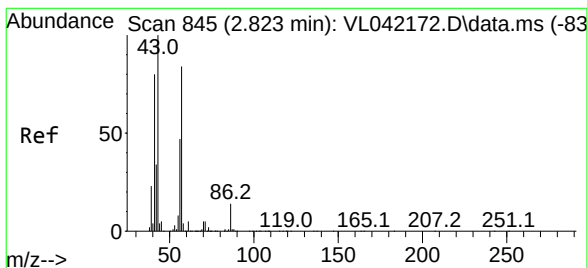
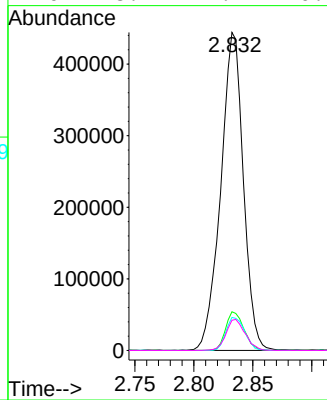
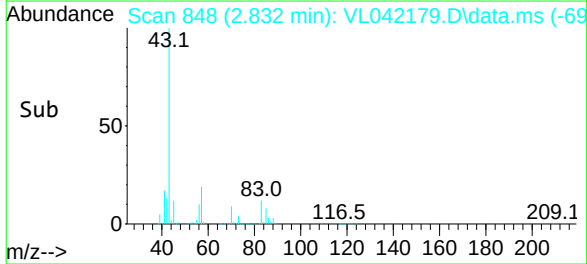
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



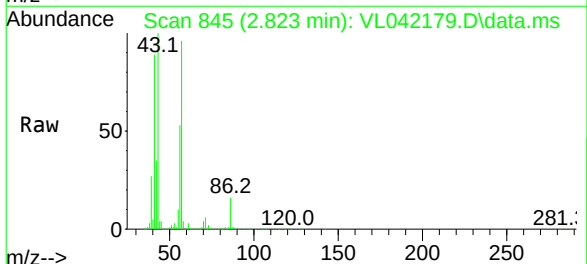
Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.2	12.2
61	8.7	7.3	10.9
70	8.4	7.2	10.8

Manual Integrations
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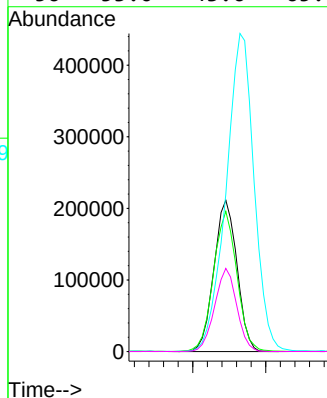
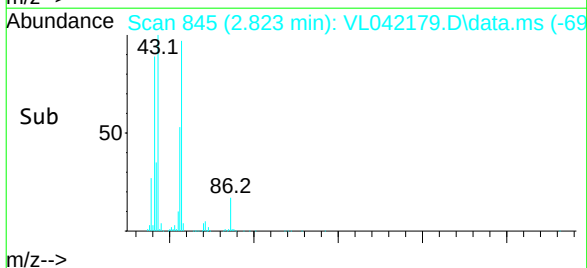
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

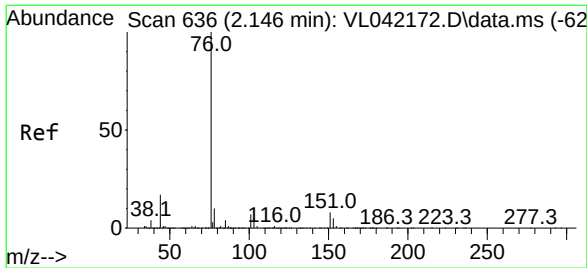


#26
Hexane
Concen: 9.455 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



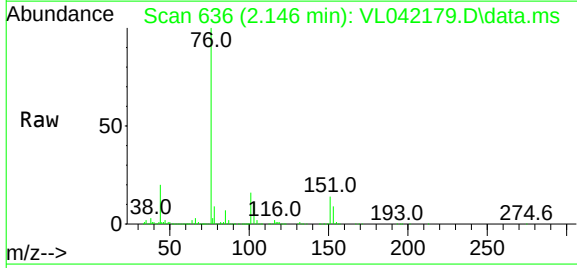
Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.2	76.6	114.8
43	256.8	207.8	311.8
56	53.0	43.6	65.4





#27
Carbon Disulfide
Concen: 9.493 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

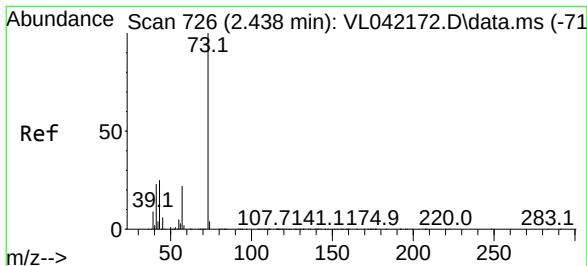
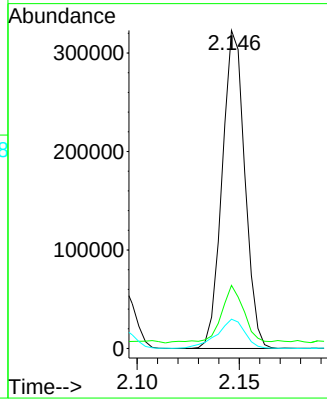
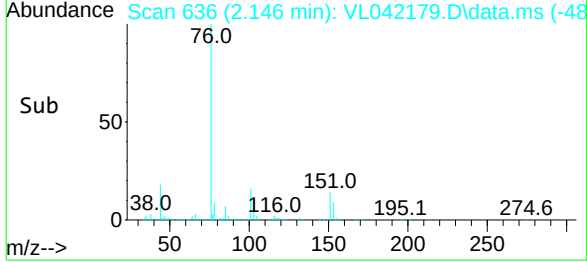
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



Tgt Ion: 76 Resp: 248834
Ion Ratio Lower Upper
76 100
44 20.1 14.7 22.1
78 11.3 9.3 13.9

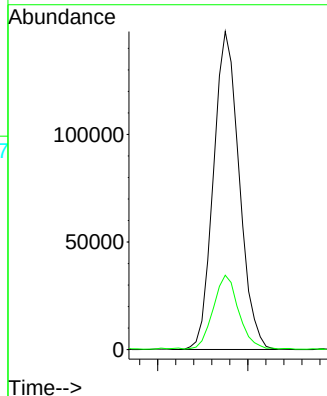
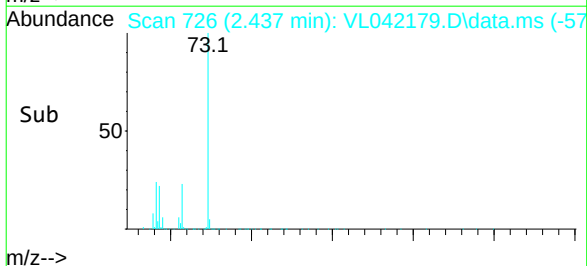
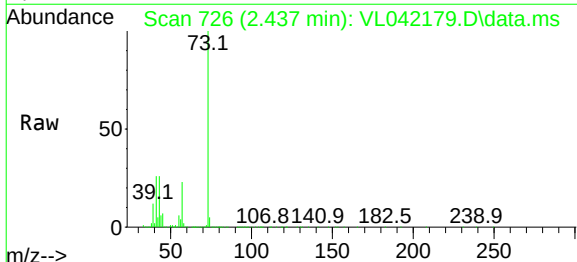
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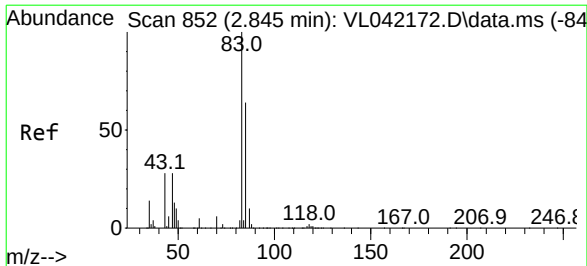
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#28
Methyl tert-Butyl Ether
Concen: 9.624 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 73 Resp: 146470
Ion Ratio Lower Upper
73 100
57 23.3 20.5 30.7





#29

Chloroform

Concen: 9.619 ppbv

RT: 2.845 min Scan# 85

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion: 83 Resp: 344106

Ion Ratio Lower Upper

83 100

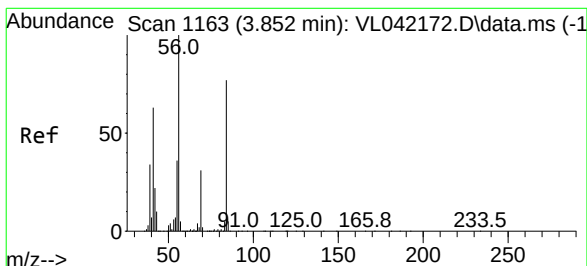
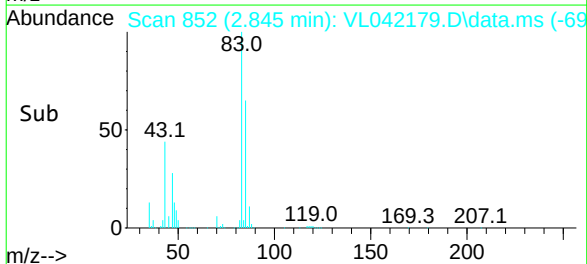
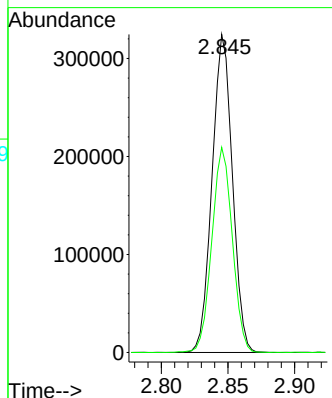
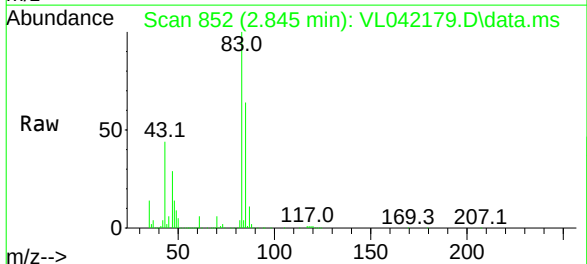
85 64.5 51.4 77.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#30

Cyclohexane

Concen: 9.323 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

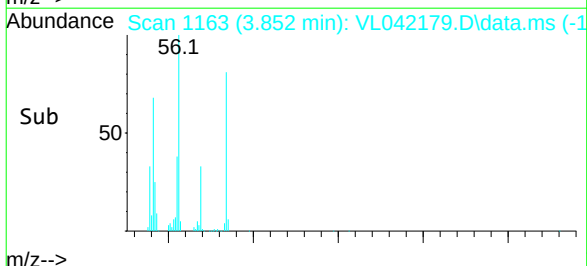
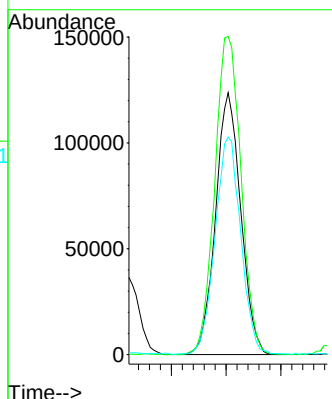
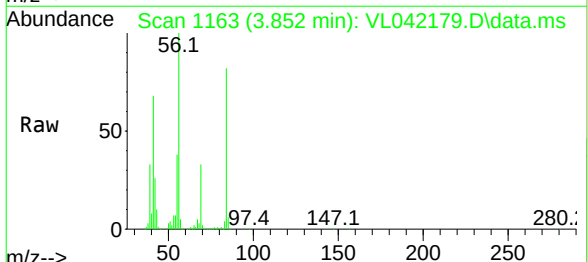
Tgt Ion: 84 Resp: 197897

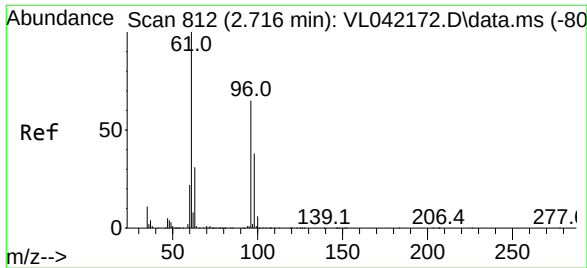
Ion Ratio Lower Upper

84 100

56 126.8 102.8 154.2

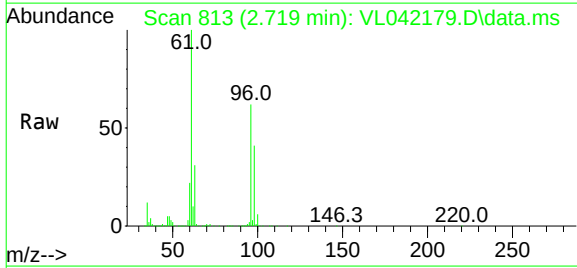
41 84.6 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.449 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

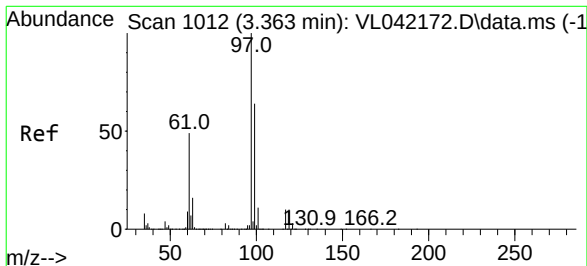
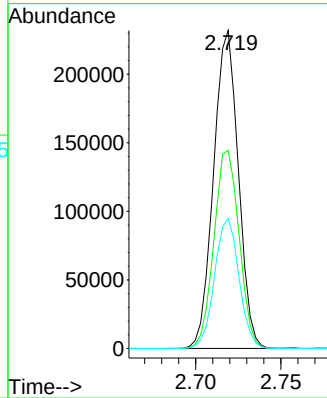
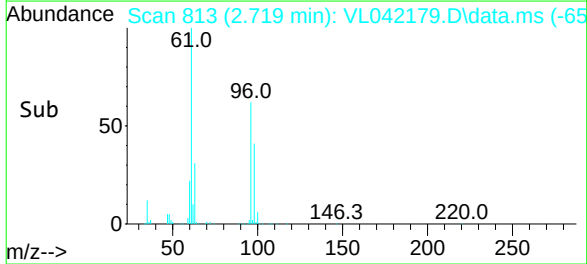
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725



Tgt Ion: 61 Resp: 234487
 Ion Ratio Lower Upper
 61 100
 96 62.3 51.8 77.8
 98 40.9 30.6 46.0

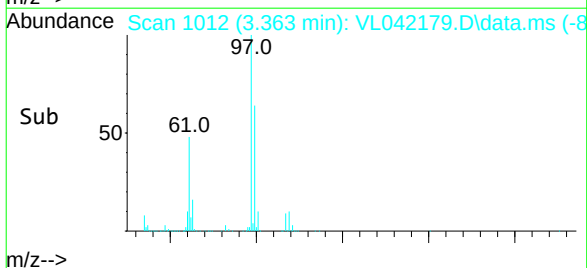
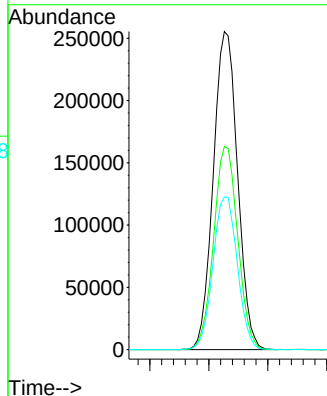
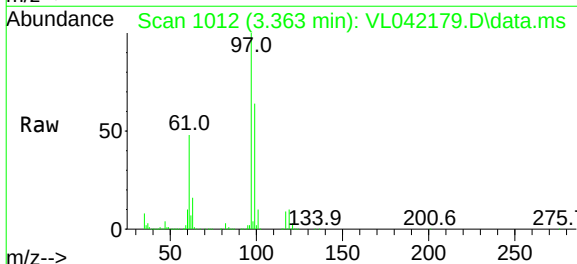
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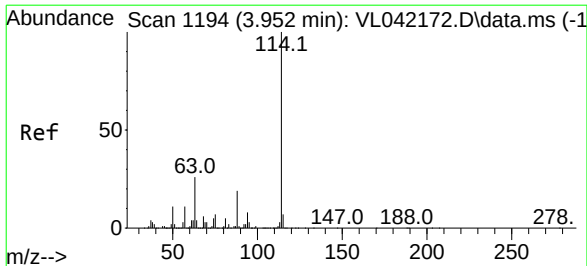
Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025



#32
 1,1,1-Trichloroethane
 Concen: 8.921 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

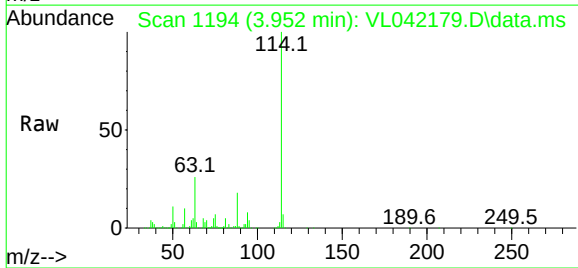
Tgt Ion: 97 Resp: 365364
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.5 77.3
 61 48.4 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

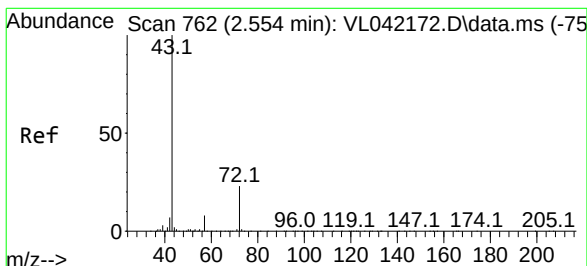
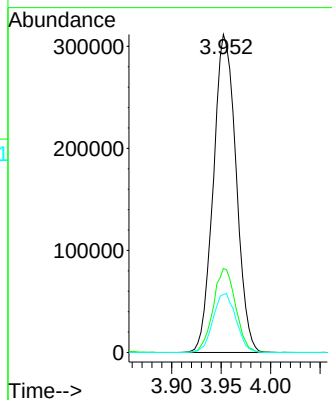
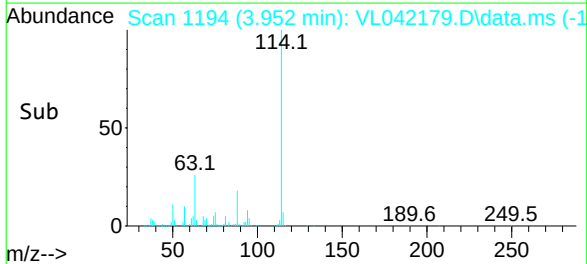
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



Tgt Ion: 114 Resp: 498105
Ion Ratio Lower Upper
114 100
63 26.1 20.7 31.1
88 18.7 15.0 22.4

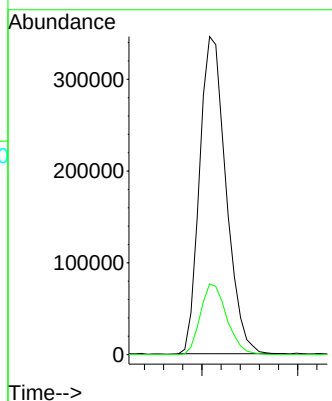
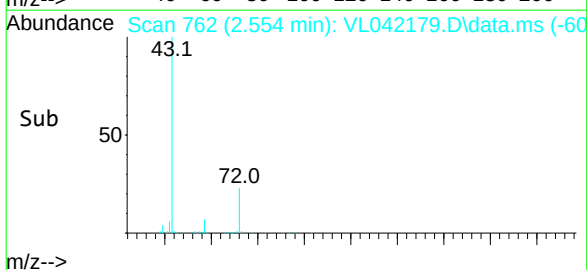
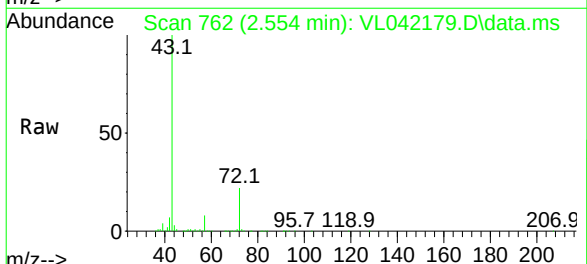
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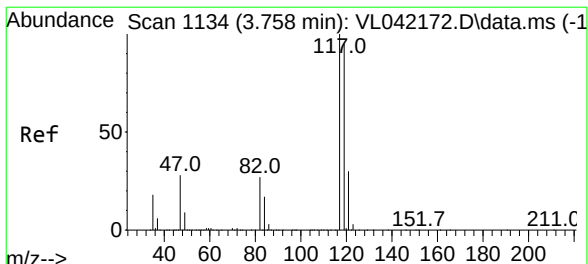
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#34
2-Butanone
Concen: 9.171 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

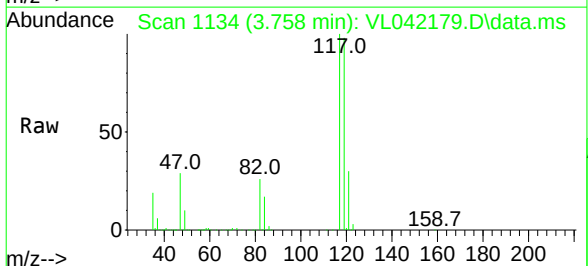
Tgt Ion: 43 Resp: 331236
Ion Ratio Lower Upper
43 100
72 22.2 18.2 27.2





#35
 Carbon Tetrachloride
 Concen: 9.339 ppbv
 RT: 3.758 min Scan# 111
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

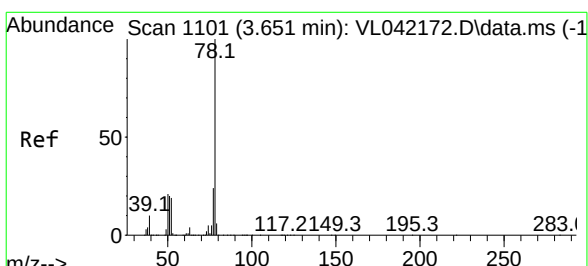
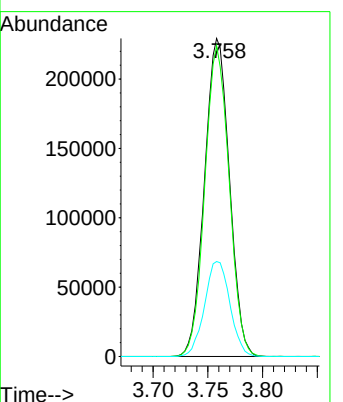
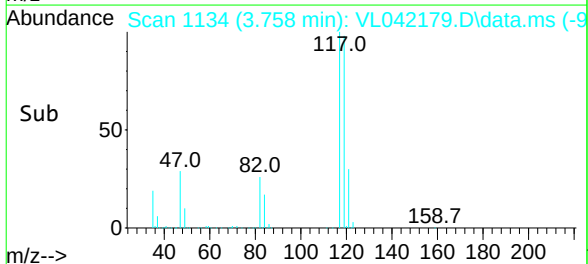
Instrument : MSVOA_L
 ClientSampleId : ICVVL032725



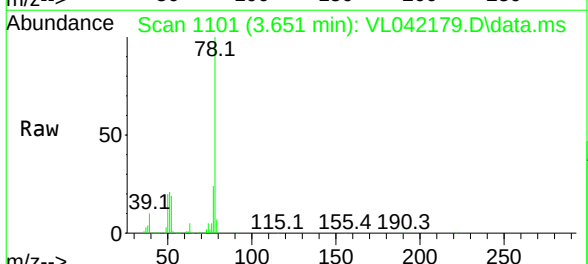
Tgt Ion: 117 Resp: 363392

Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.2	114.2
121	29.9	24.2	36.4

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 Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

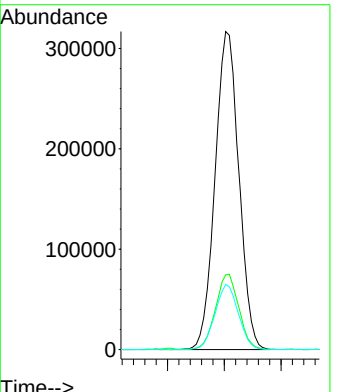
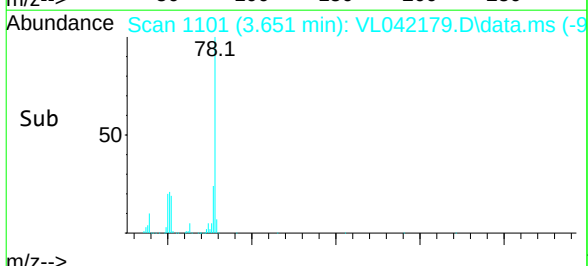


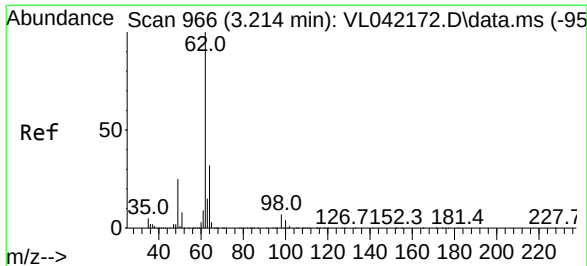
#36
 Benzene
 Concen: 9.341 ppbv
 RT: 3.651 min Scan# 1101
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23



Tgt Ion: 78 Resp: 461261

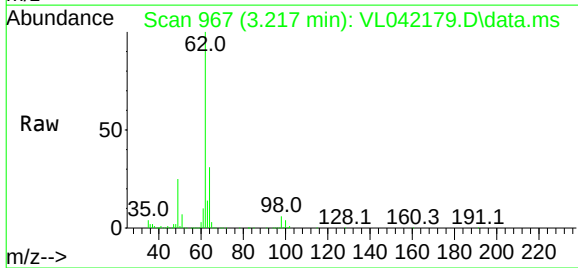
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.1	28.7
50	20.4	16.6	24.8





#37
1,2-Dichloroethane
Concen: 9.676 ppbv
RT: 3.217 min Scan# 96
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

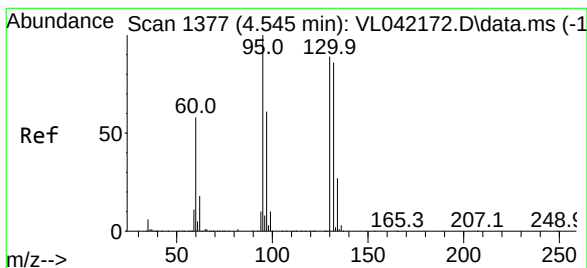
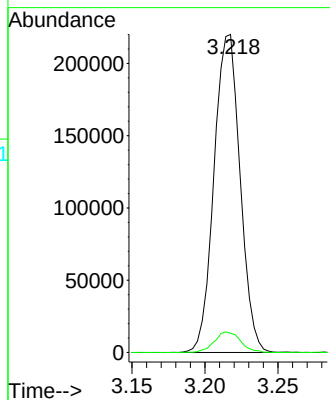
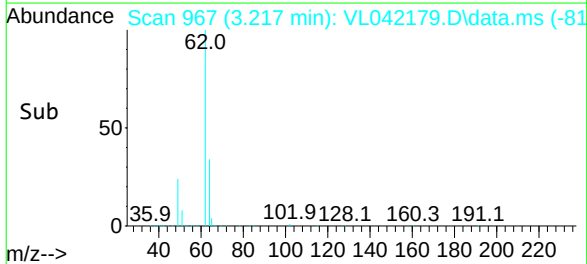
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



Tgt Ion: 62 Resp: 273559
Ion Ratio Lower Upper
62 100
98 6.6 5.4 8.2

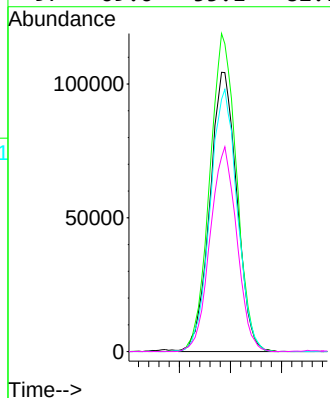
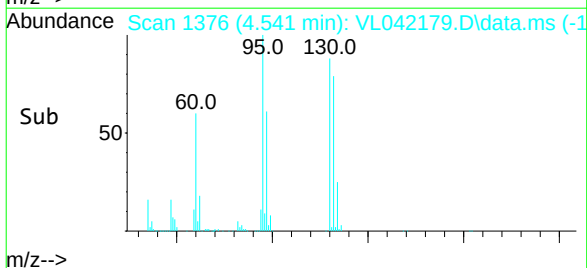
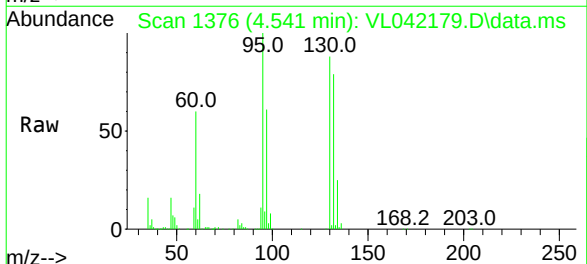
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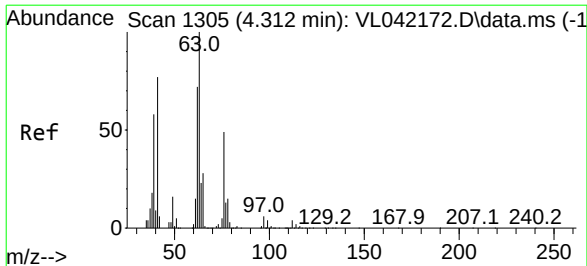
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#38
Trichloroethene
Concen: 9.306 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

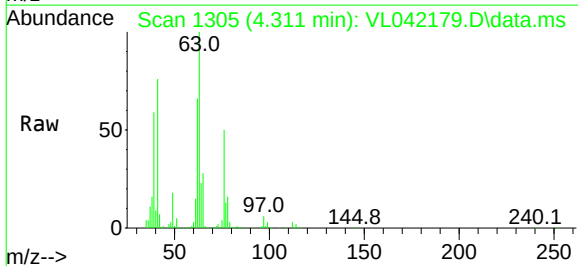
Tgt Ion:130 Resp: 191746
Ion Ratio Lower Upper
130 100
95 113.9 89.8 134.8
132 90.3 77.4 116.2
97 69.6 55.1 82.7





#39
1,2-Dichloropropane
Concen: 9.500 ppbv
RT: 4.311 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

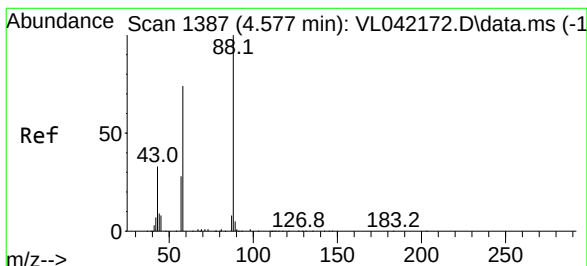
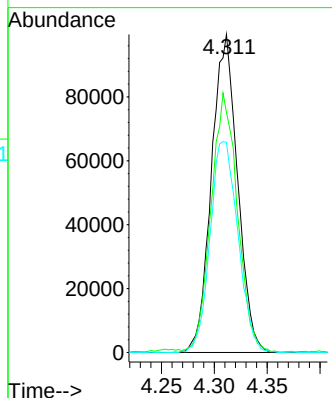
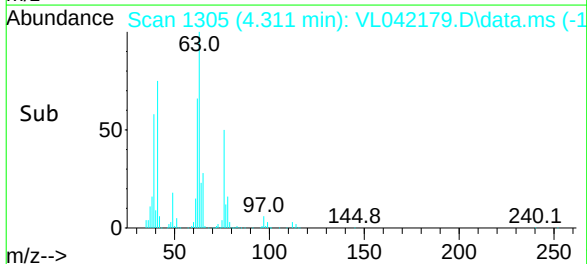
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



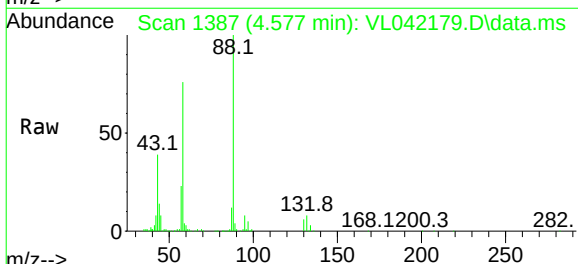
Tgt Ion: 63 Resp: 170839
Ion Ratio Lower Upper
63 100
41 75.3 61.7 92.5
62 66.0 57.6 86.4

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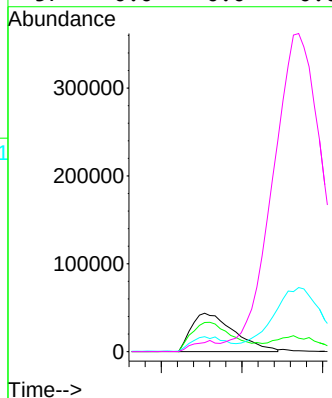
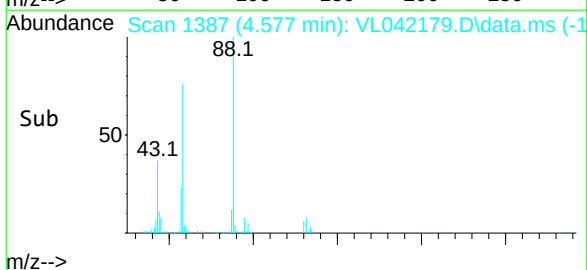
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

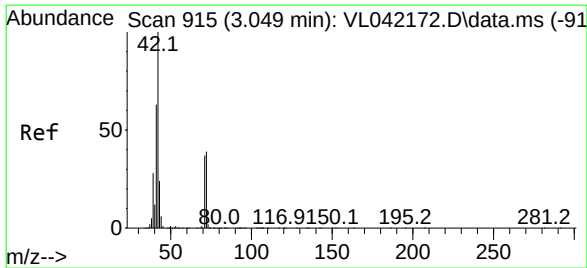


#40
1,4-Dioxane
Concen: 8.443 ppbv
RT: 4.577 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion: 88 Resp: 80592
Ion Ratio Lower Upper
88 100
58 76.2 62.7 94.1
43 31.4 23.0 34.4
57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 9.431 ppbv

RT: 3.052 min Scan# 91

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

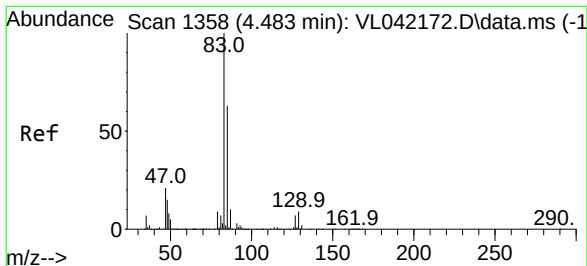
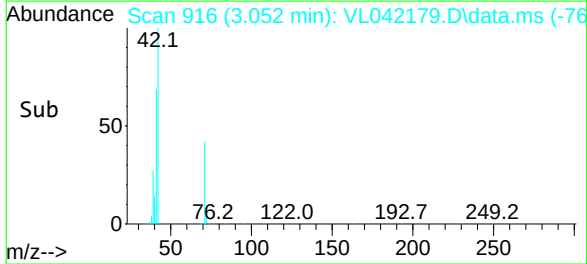
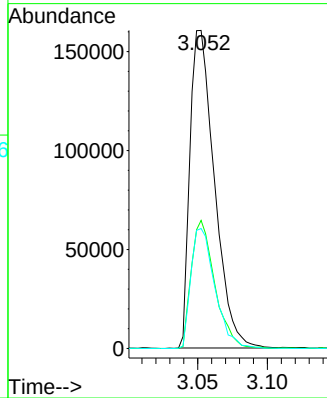
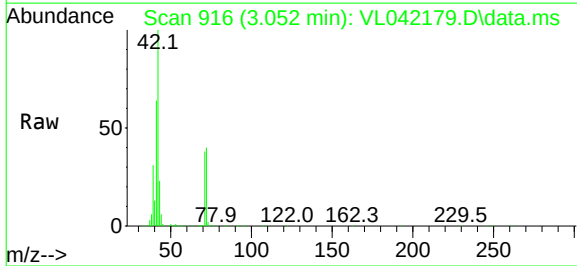
ClientSampleId :

ICVVL032725

Tgt Ion: 42	Resp: 196163
Ion Ratio	Lower Upper
42 100	
72 38.9	31.4 47.0
71 37.2	30.2 45.4

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#42

Bromodichloromethane

Concen: 9.853 ppbv

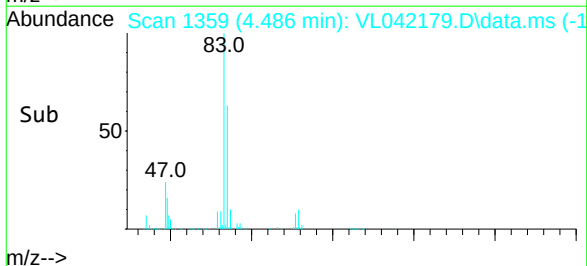
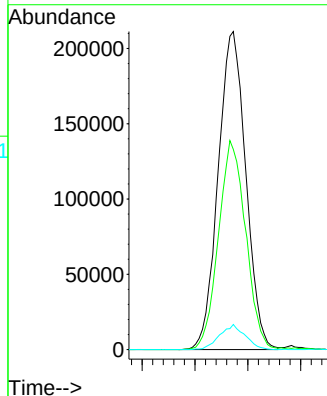
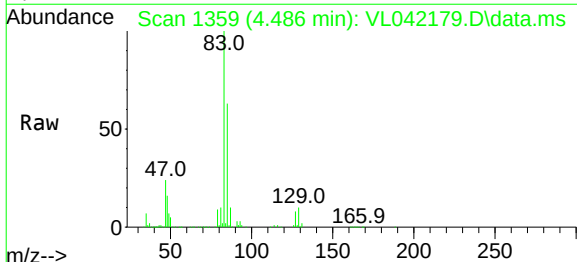
RT: 4.486 min Scan# 1359

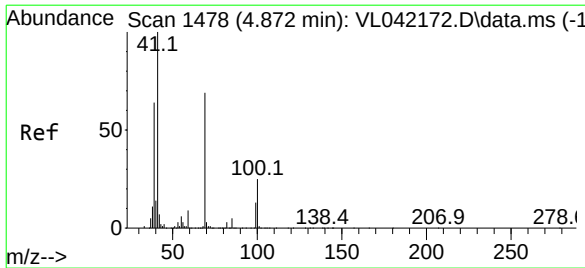
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion: 83	Resp: 384006
Ion Ratio	Lower Upper
83 100	
85 63.0	50.5 75.7
127 7.9	5.9 8.9





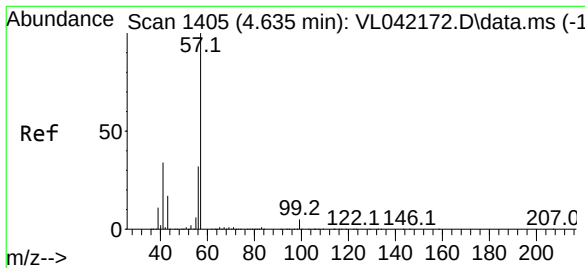
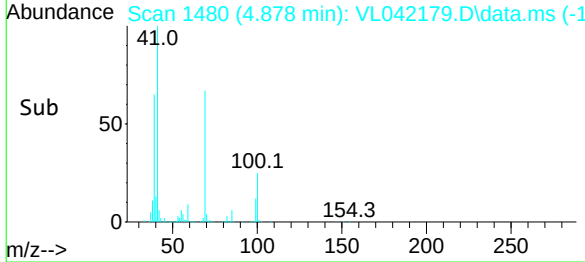
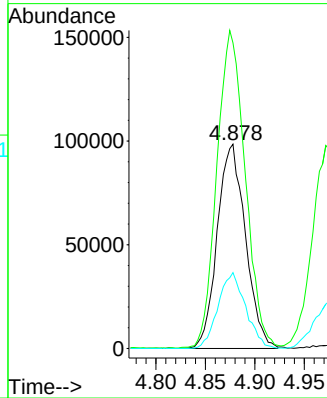
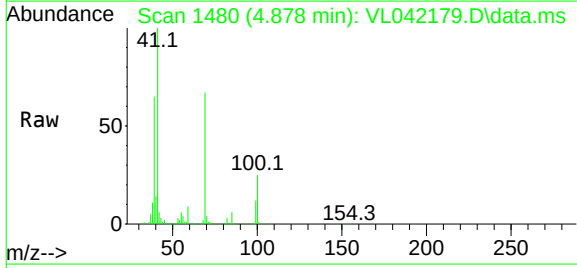
#43
Methyl Methacrylate
Concen: 9.344 ppbv
RT: 4.878 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 69 Resp: 195339
Ion Ratio Lower Upper
69 100
41 156.4 123.8 185.6
100 36.4 28.4 42.6

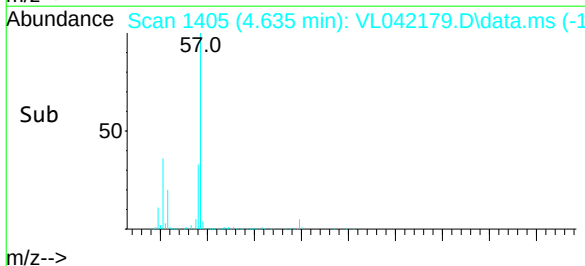
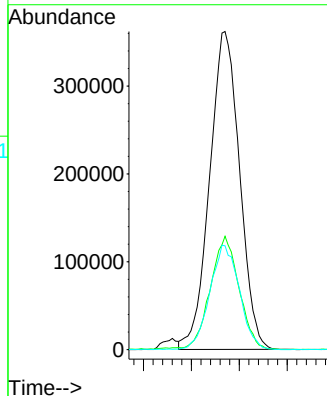
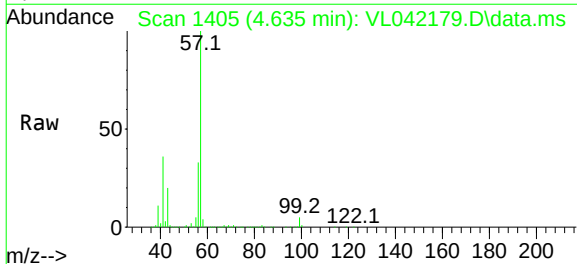
Manual Integrations
APPROVED

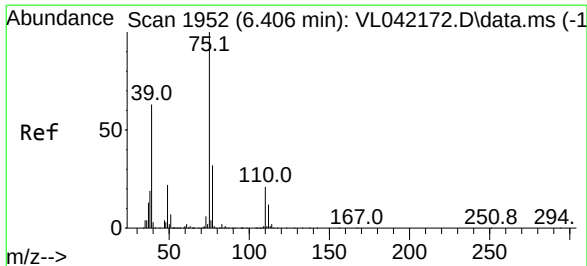
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#44
2,2,4-Trimethylpentane
Concen: 9.436 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 57 Resp: 787400
Ion Ratio Lower Upper
57 100
41 34.3 26.8 40.2
56 32.5 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 9.467 ppbv

RT: 6.409 min Scan# 1952

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion: 75 Resp: 212335

Ion Ratio Lower Upper

75 100

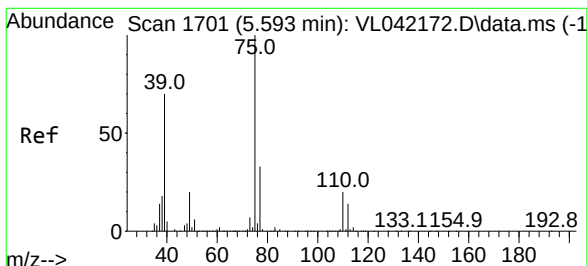
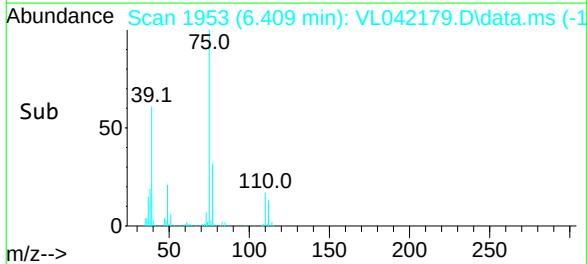
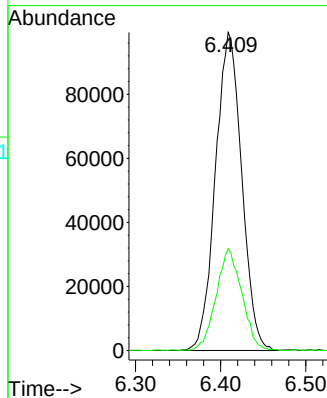
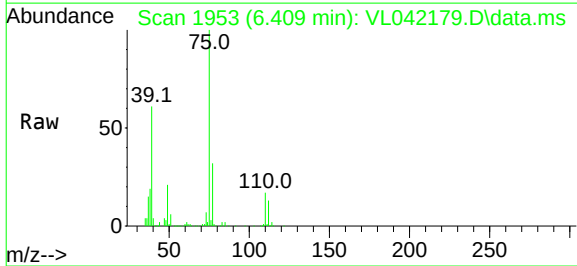
77 32.0 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#46

cis-1,3-Dichloropropene

Concen: 9.643 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

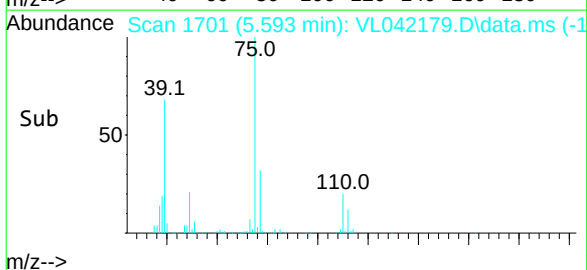
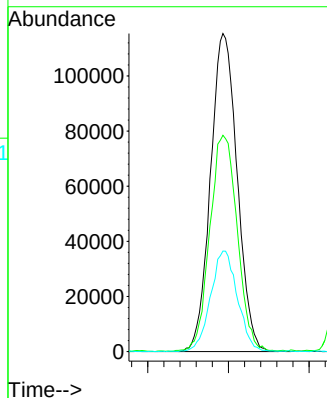
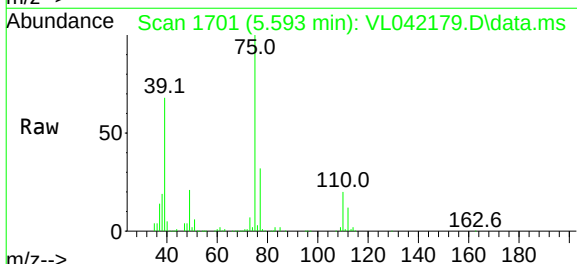
Tgt Ion: 75 Resp: 265101

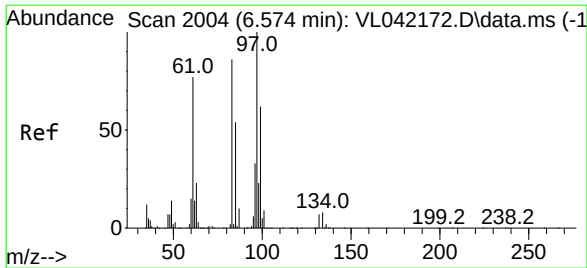
Ion Ratio Lower Upper

75 100

39 67.8 55.8 83.6

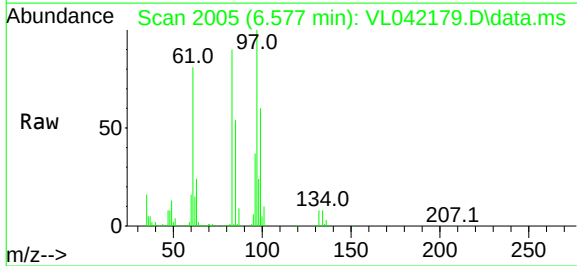
77 31.6 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 9.638 ppbv
RT: 6.577 min Scan# 2005
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

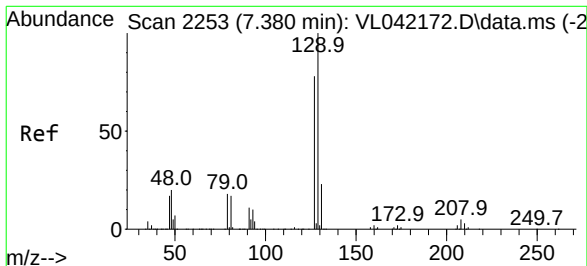
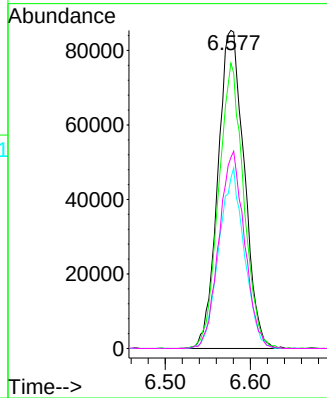
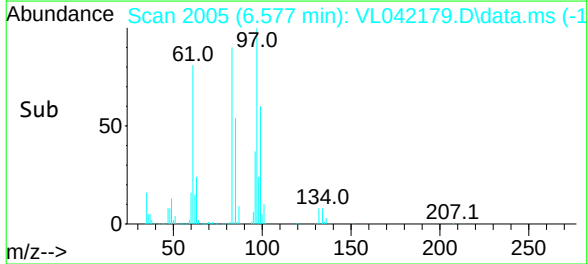
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



Tgt Ion: 97 Resp: 183228
Ion Ratio Lower Upper
97 100
83 89.7 69.2 103.8
85 53.6 43.1 64.7
99 60.1 49.4 74.2

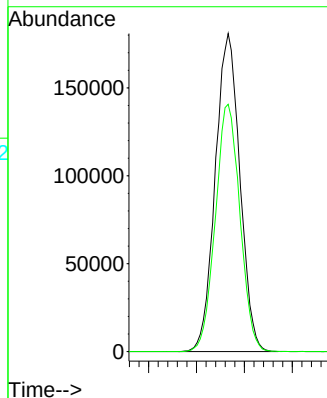
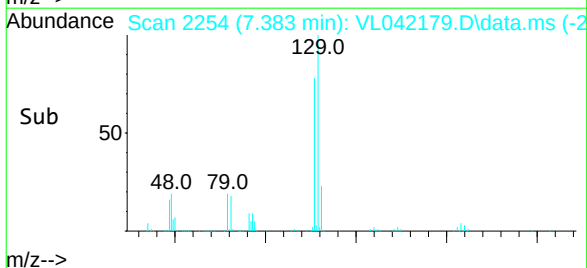
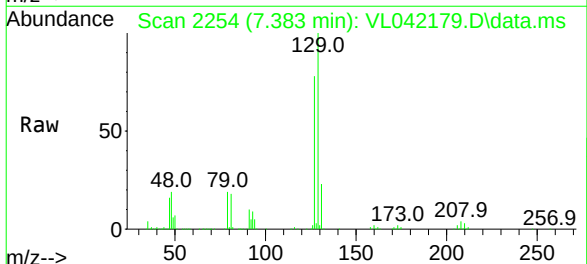
Manual Integrations
APPROVED

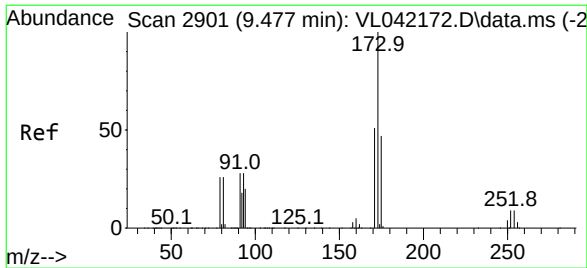
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#48
Dibromochloromethane
Concen: 10.018 ppbv
RT: 7.383 min Scan# 2254
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:129 Resp: 322766
Ion Ratio Lower Upper
129 100
127 77.7 39.1 117.2





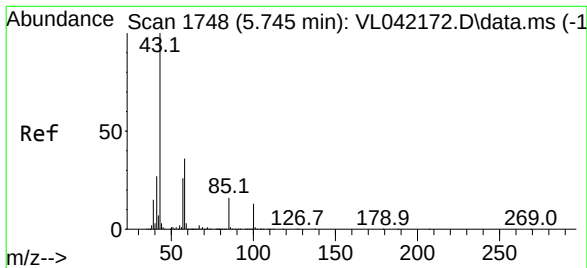
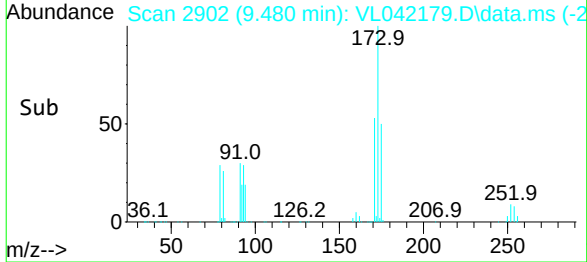
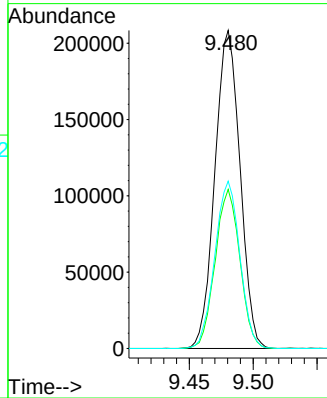
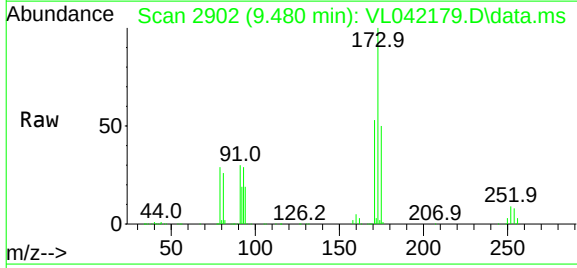
#49
Bromoform
Concen: 9.858 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Tgt Ion: 173 Resp: 285149
Ion Ratio Lower Upper
173 100
175 49.2 38.6 57.8
171 52.4 41.8 62.6

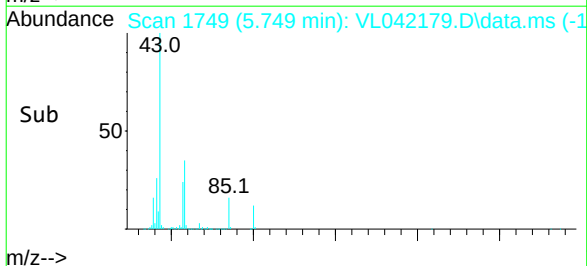
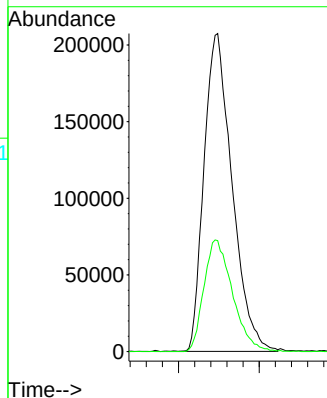
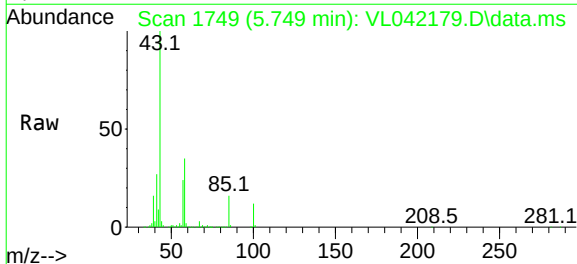
Manual Integrations
APPROVED

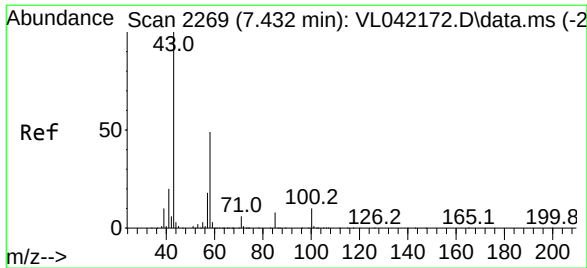
Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



#50
4-Methyl-2-Pentanone
Concen: 8.749 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion: 43 Resp: 500791
Ion Ratio Lower Upper
43 100
58 35.8 29.0 43.6





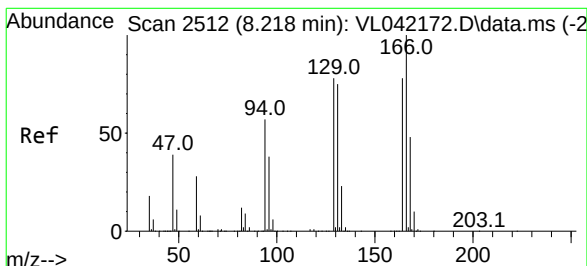
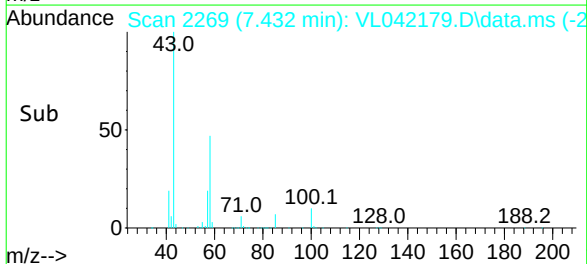
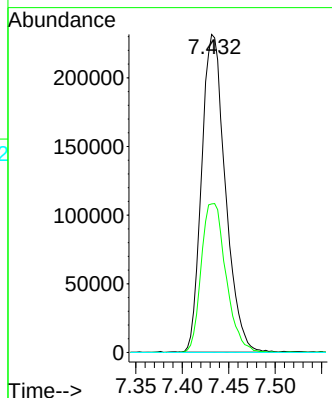
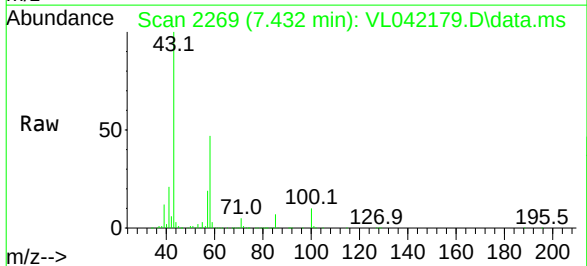
#51
2-Hexanone
Concen: 8.741 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 43	Resp: 410889
Ion Ratio	Lower Upper
43 100	
58 48.9	39.7 59.5
98 0.0	0.1 0.1#

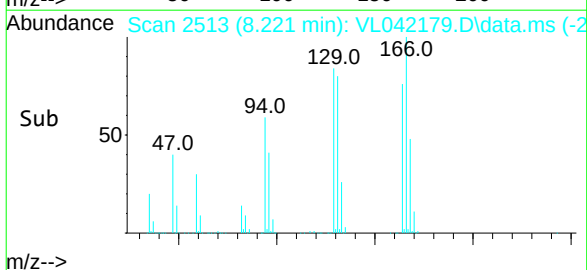
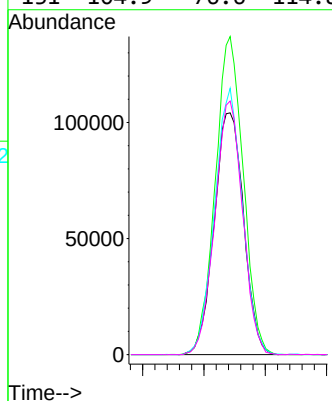
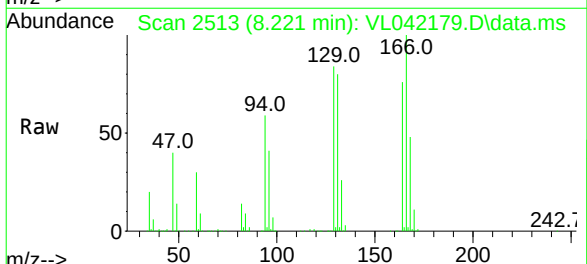
Manual Integrations
APPROVED

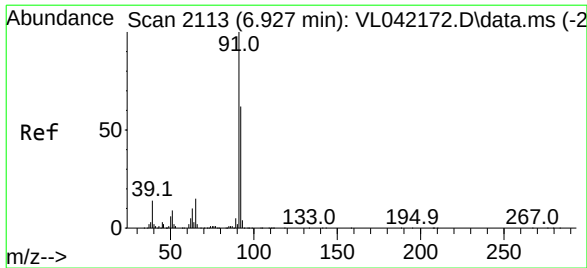
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#52
Tetrachloroethene
Concen: 8.855 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt	Ion:164	Resp:	173420
Ion	Ratio	Lower	Upper
164	100		
166	131.6	102.5	153.7
129	110.1	79.8	119.8
131	104.9	76.6	114.8





#53

Toluene

Concen: 9.514 ppbv

RT: 6.927 min Scan# 2113

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion: 91 Resp: 556897

Ion Ratio Lower Upper

91 100

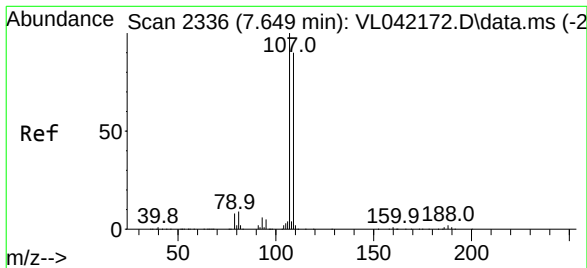
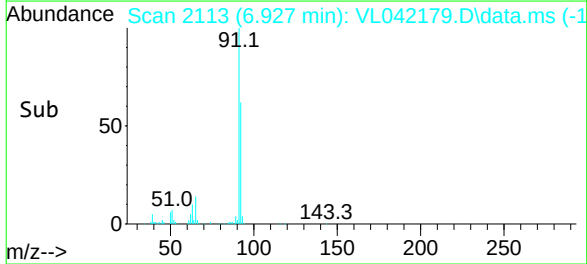
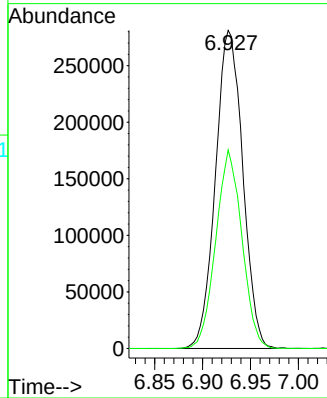
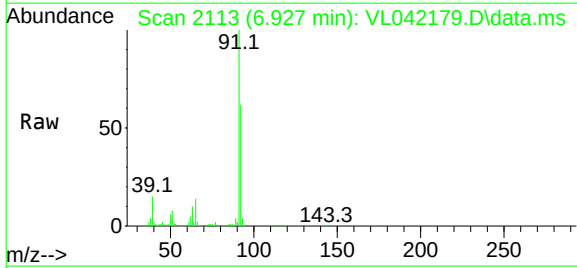
92 59.8 48.4 72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#54

1,2-Dibromoethane

Concen: 9.695 ppbv

RT: 7.645 min Scan# 2335

Delta R.T. -0.003 min

Lab File: VL042179.D

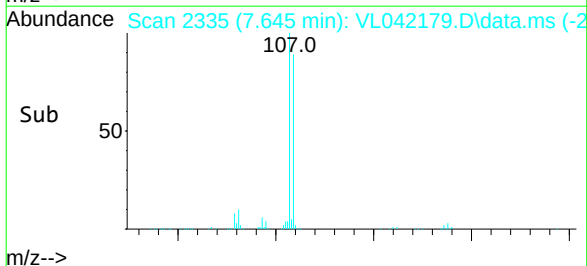
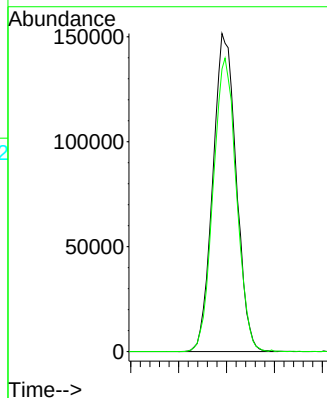
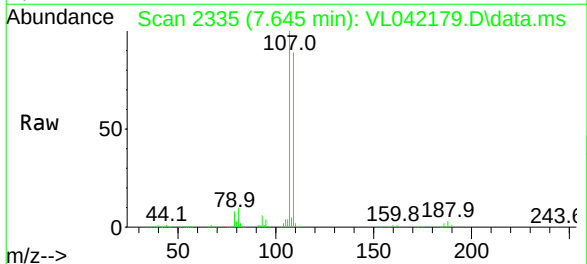
Acq: 27 Mar 2025 12:23

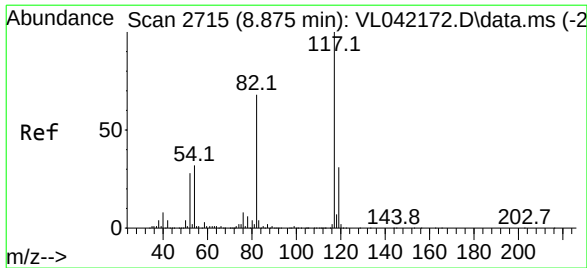
Tgt Ion:107 Resp: 256930

Ion Ratio Lower Upper

107 100

109 88.9 72.2 108.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

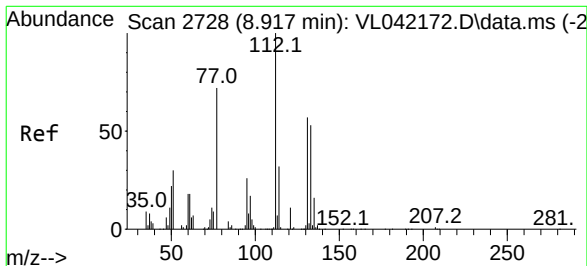
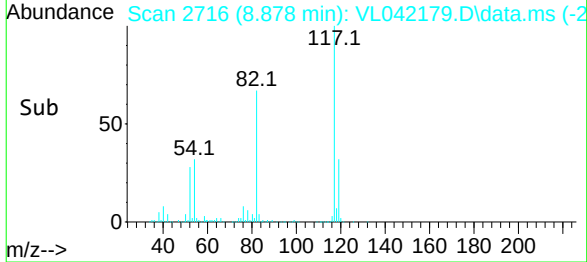
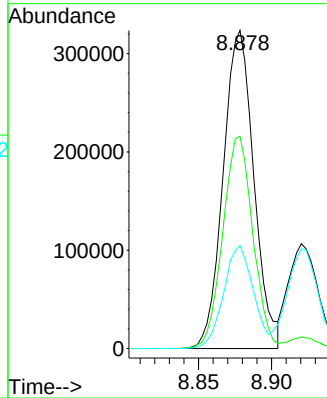
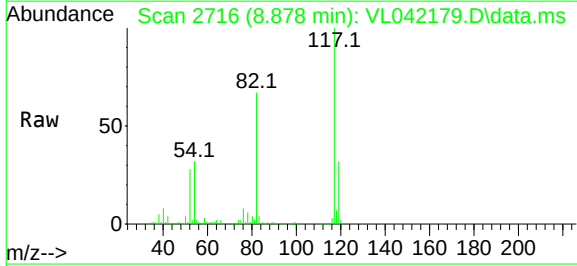
ClientSampleId :

ICVVL032725

Tgt Ion:	117	Resp:	473357
Ion	Ratio	Lower	Upper
117	100		
82	68.7	55.8	83.6
119	31.2	25.5	38.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.567 ppbv

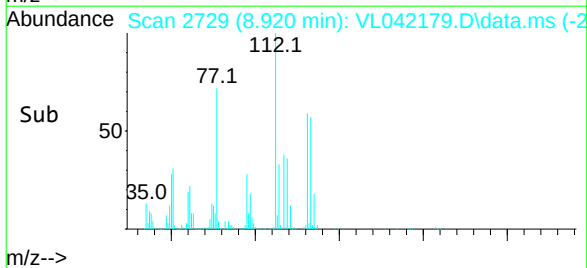
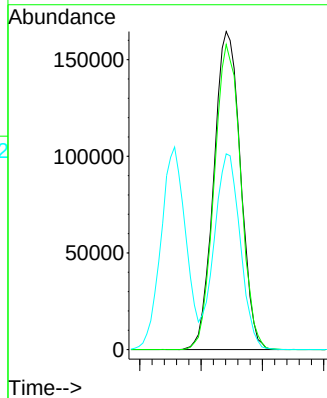
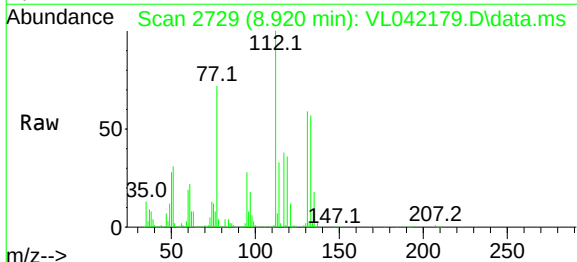
RT: 8.920 min Scan# 2729

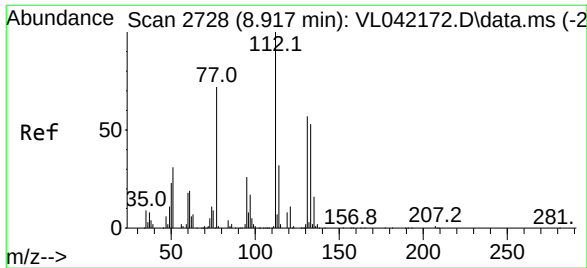
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion:	131	Resp:	249270
Ion	Ratio	Lower	Upper
131	100		
133	95.0	76.6	114.8
119	61.3	49.8	74.6





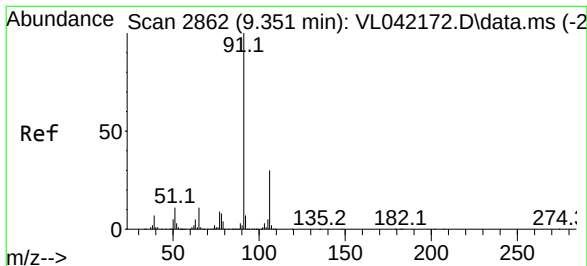
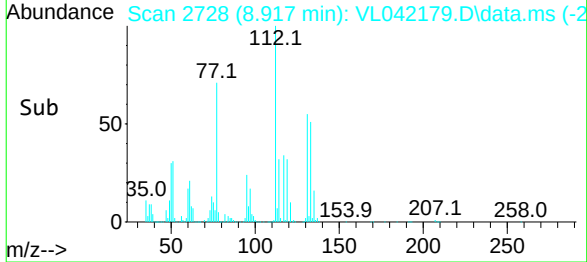
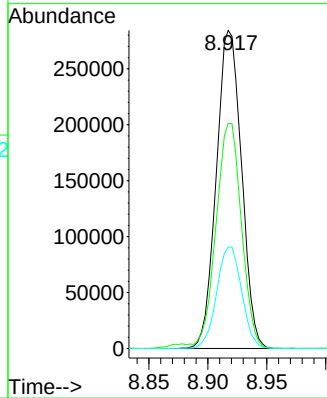
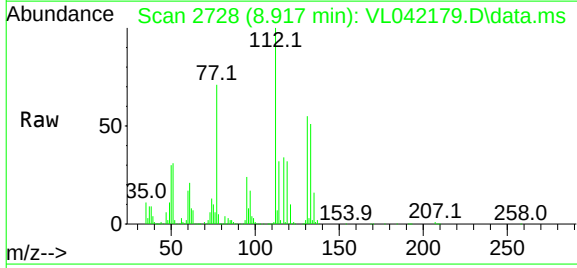
#57
Chlorobenzene
Concen: 9.411 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion: 112 Resp: 422531
Ion Ratio Lower Upper
112 100
77 70.6 58.2 87.2
114 31.9 29.1 35.5

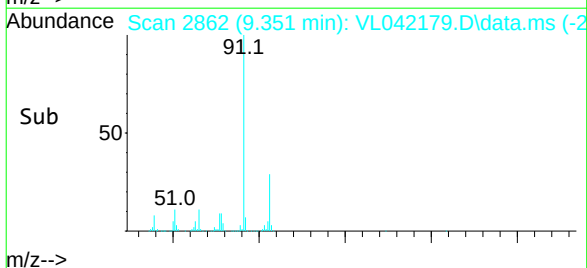
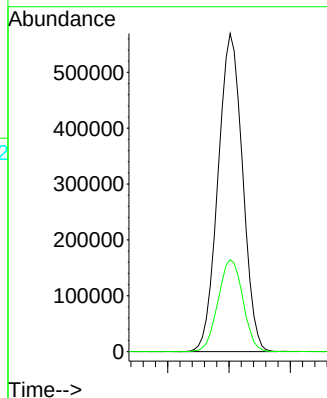
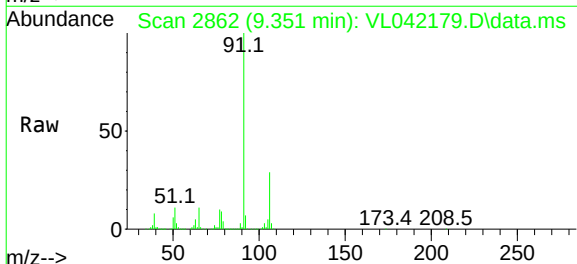
Manual Integrations
APPROVED

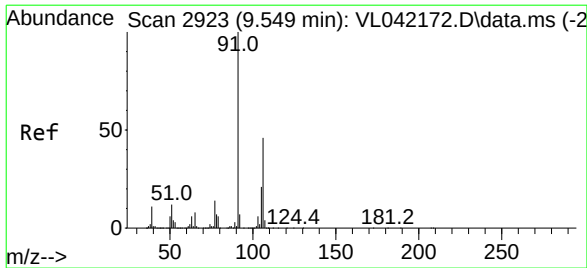
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#58
Ethyl Benzene
Concen: 9.412 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

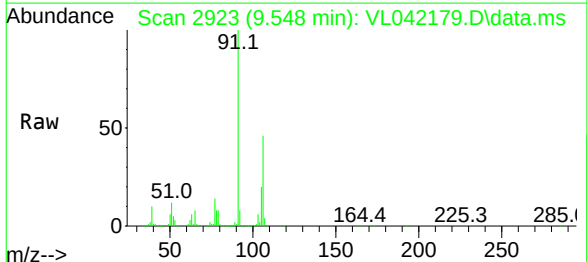
Tgt Ion: 91 Resp: 791360
Ion Ratio Lower Upper
91 100
106 28.9 24.2 36.2





#59
m/p-Xylene
Concen: 18.772 ppbv m
RT: 9.548 min Scan# 29
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

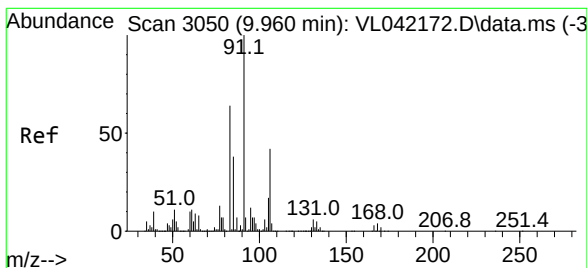
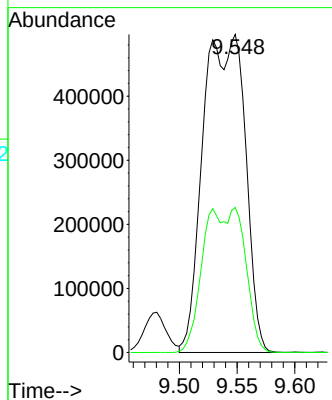
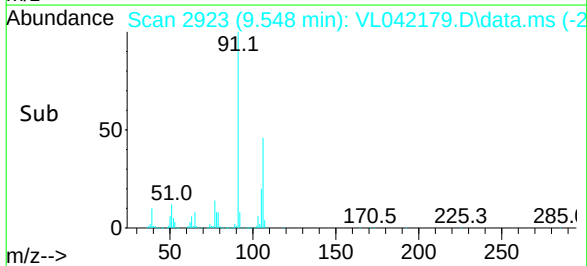
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



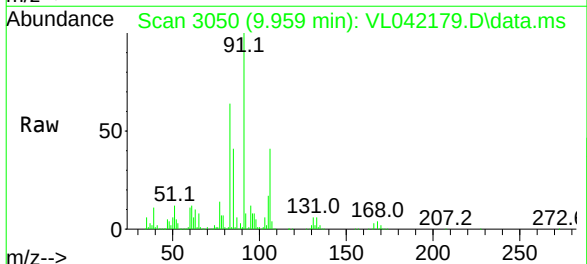
Tgt Ion: 91 Resp: 1260340
Ion Ratio Lower Upper
91 100
106 45.3 36.4 54.6

Manual Integrations
APPROVED

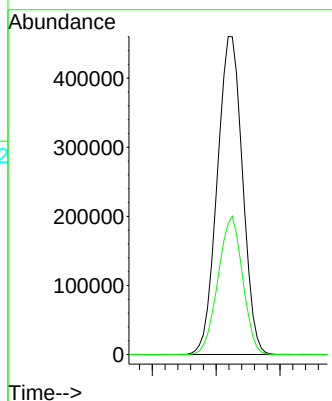
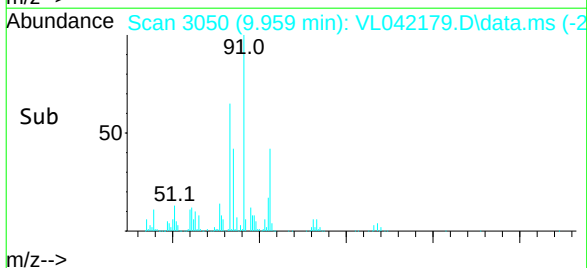
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

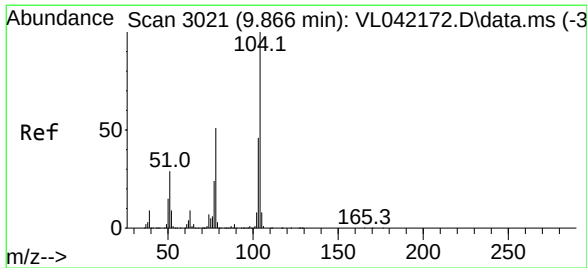


#60
o-Xylene
Concen: 9.404 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion: 91 Resp: 632918
Ion Ratio Lower Upper
91 100
106 42.2 20.8 62.5





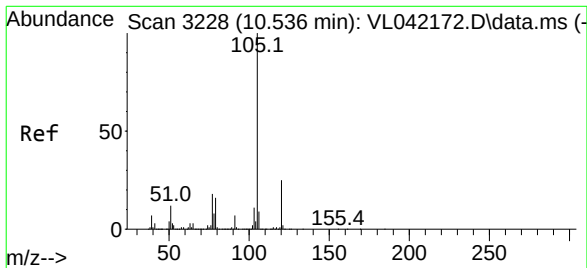
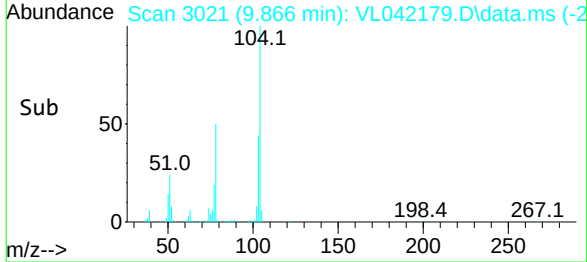
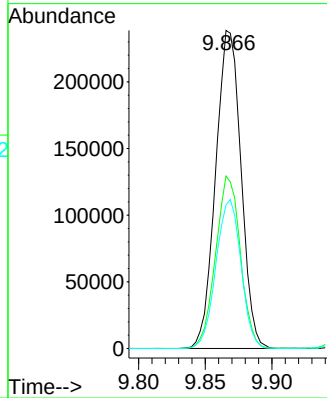
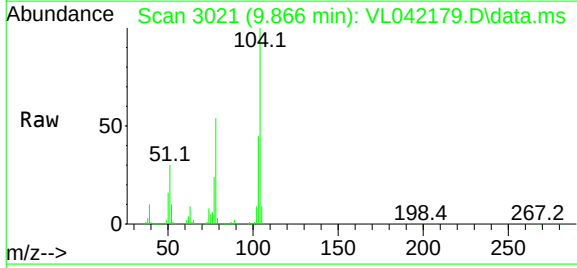
#61
Styrene
Concen: 9.488 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion:104 Resp: 315910
Ion Ratio Lower Upper
104 100
78 52.8 41.8 62.6
103 46.3 37.0 55.4

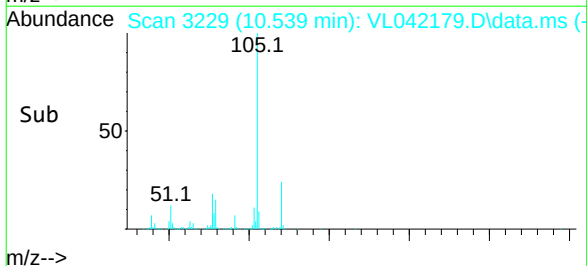
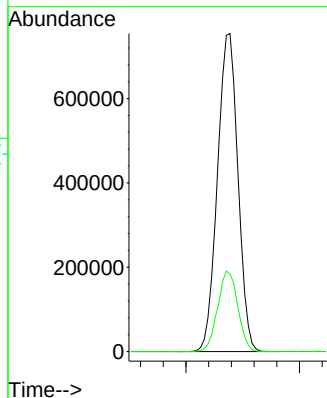
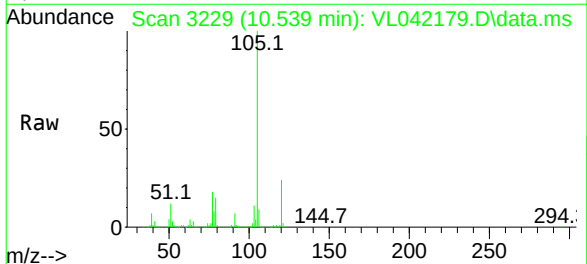
Manual Integrations
APPROVED

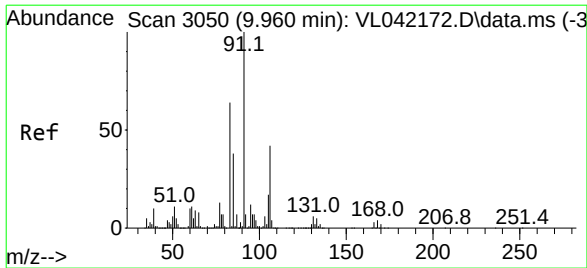
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#62
Isopropylbenzene
Concen: 9.388 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 944938
Ion Ratio Lower Upper
105 100
120 24.9 19.9 29.9





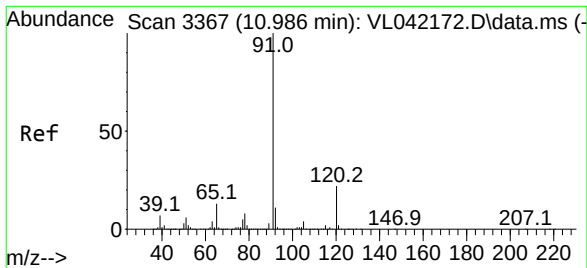
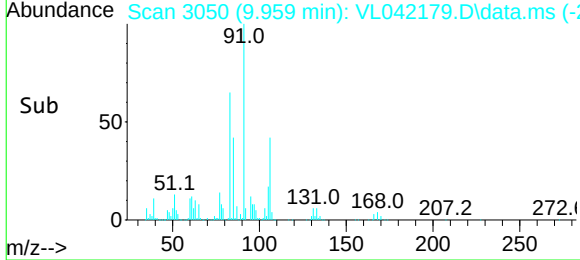
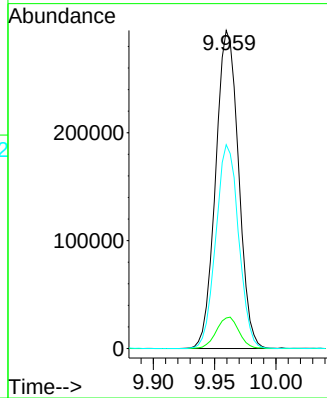
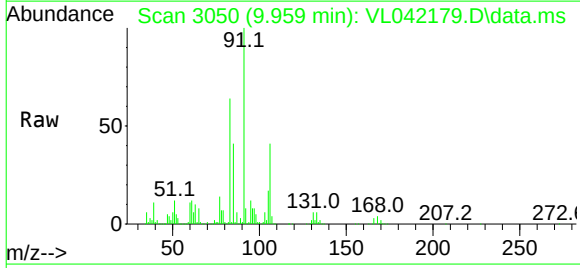
#63
1,1,2,2-Tetrachloroethane
Concen: 9.357 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Instrument : MSVOA_L
ClientSampleId : ICVVL032725

Tgt Ion:	83	Resp:	382635
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	63.9	32.5	97.5

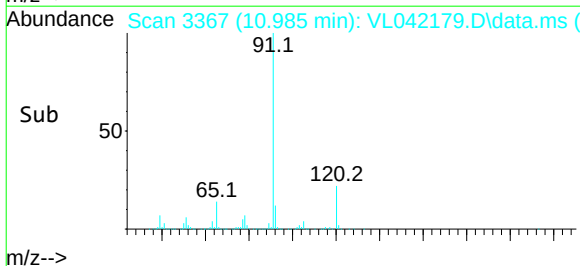
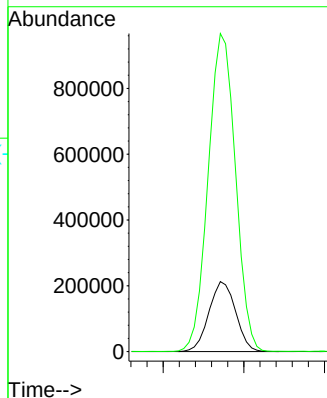
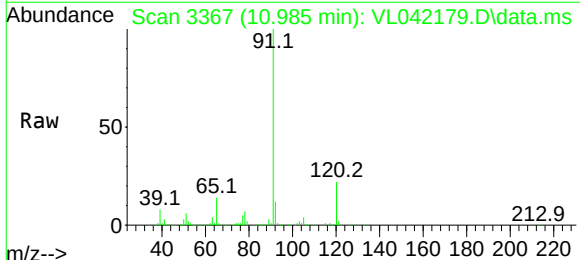
Manual Integrations APPROVED

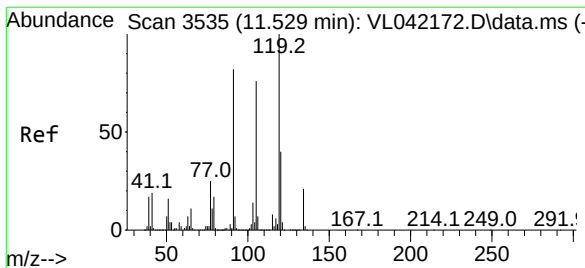
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#64
n-propylbenzene
Concen: 9.439 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

Tgt Ion:	120	Resp:	244547
Ion	Ratio	Lower	Upper
120	100		
91	465.9	376.9	565.3





#65

tert-Butylbenzene

Concen: 9.065 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

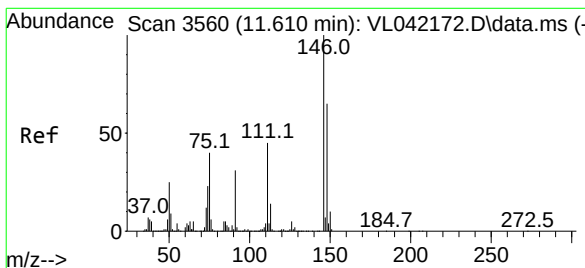
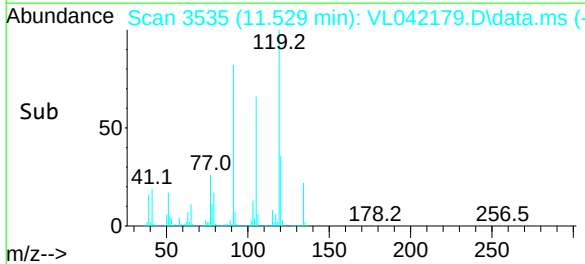
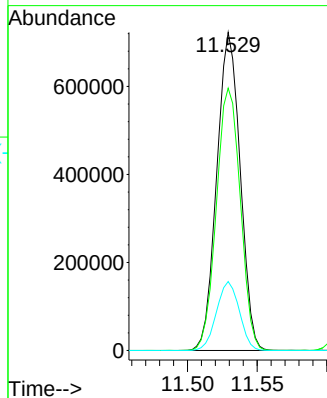
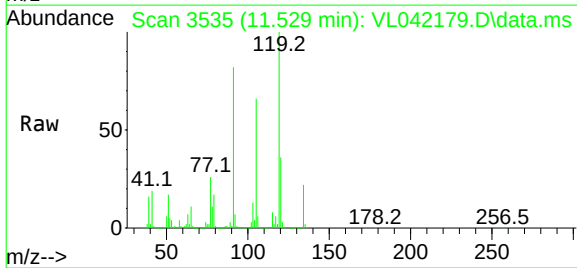
ICVVL032725

Tgt Ion:	119	Resp:	843828
Ion	Ratio	Lower	Upper
119	100		
91	84.3	66.0	99.0
134	21.2	16.7	25.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#66

Benzyl Chloride

Concen: 8.789 ppbv

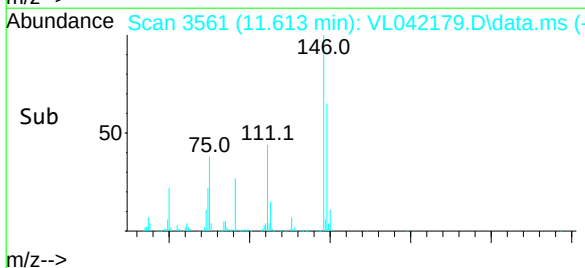
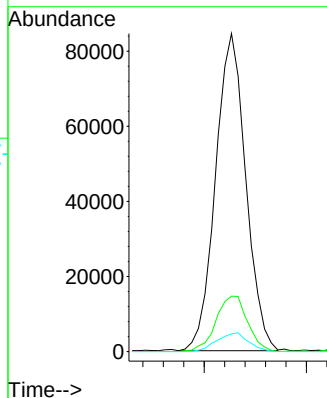
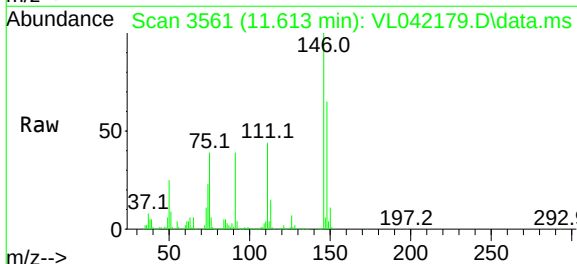
RT: 11.613 min Scan# 3561

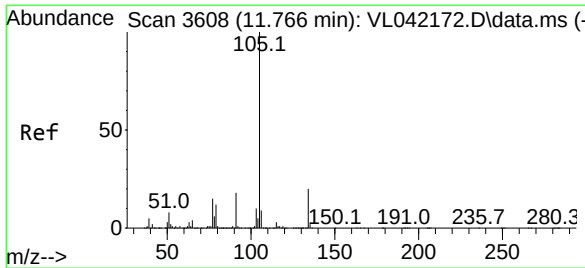
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

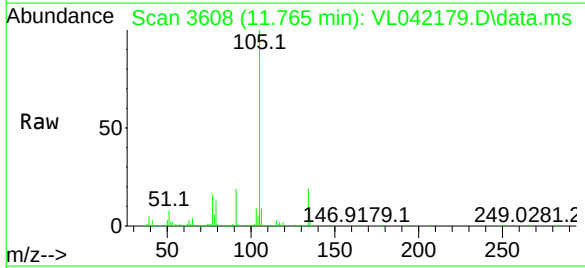
Tgt Ion:	91	Resp:	86804
Ion	Ratio	Lower	Upper
91	100		
126	18.5	13.8	20.6
128	6.2	4.5	6.7





#67
 sec-Butylbenzene
 Concen: 9.063 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.000 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

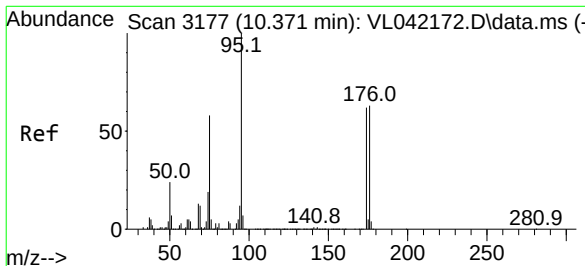
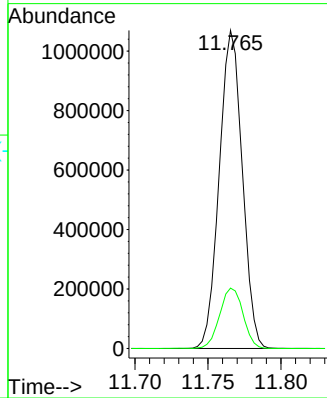
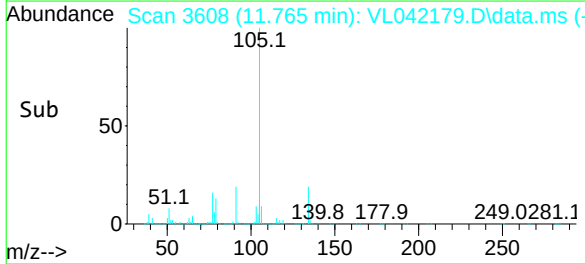
Instrument : MSVOA_L
 ClientSampleId : ICVVL032725



Tgt Ion: 105 Resp: 1172636
 Ion Ratio Lower Upper
 105 100
 134 19.4 15.5 23.3

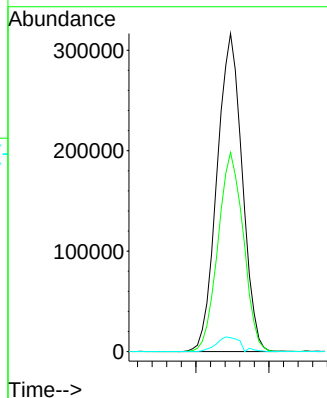
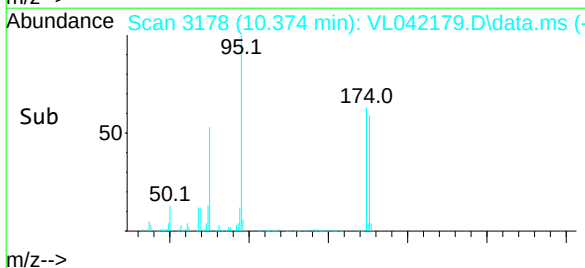
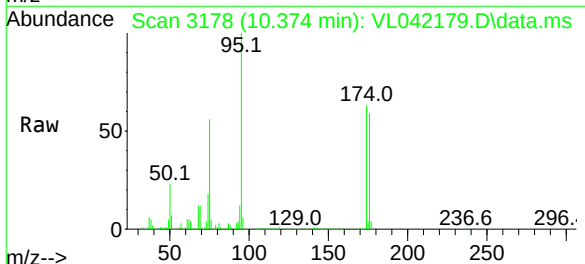
Manual Integrations APPROVED

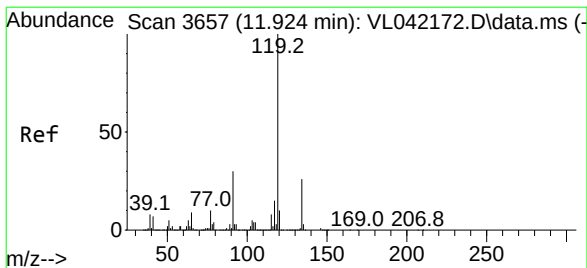
Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.774 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042179.D
 Acq: 27 Mar 2025 12:23

Tgt Ion: 95 Resp: 379929
 Ion Ratio Lower Upper
 95 100
 174 63.0 50.6 76.0
 175 4.4 3.8 5.6





#69

p-Isopropyltoluene

Concen: 9.153 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion: 119 Resp: 1019694

Ion Ratio Lower Upper

119 100

134 25.3 20.4 30.6

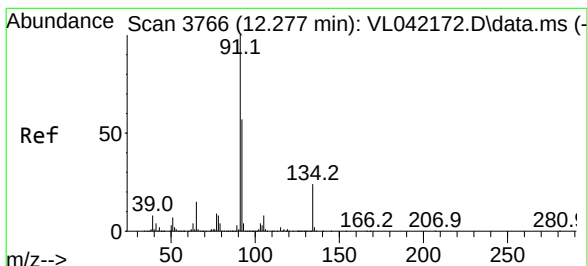
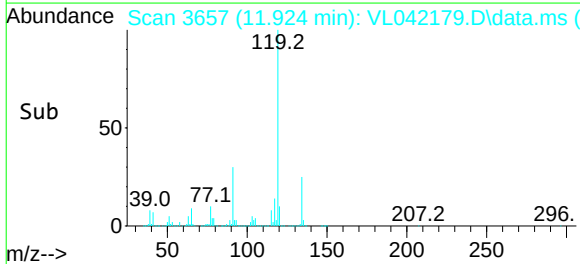
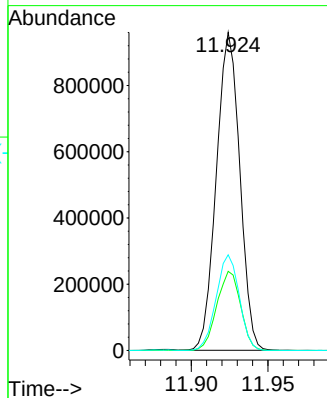
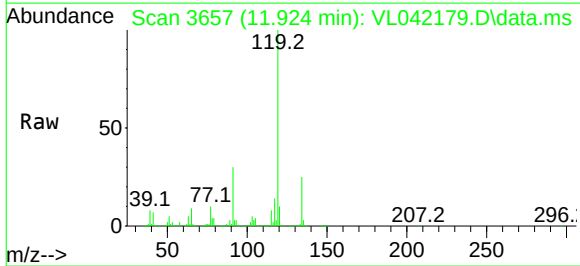
91 29.9 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#70

n-Butylbenzene

Concen: 9.115 ppbv

RT: 12.280 min Scan# 3767

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

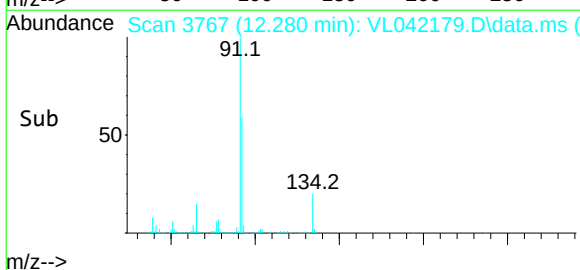
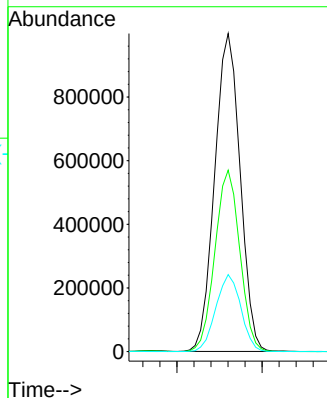
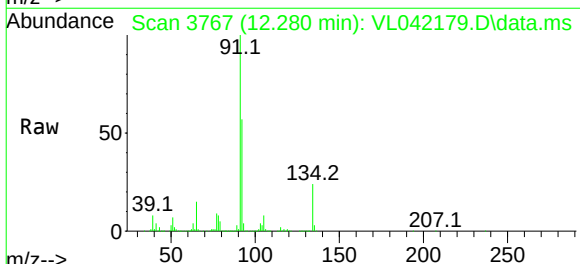
Tgt Ion: 91 Resp: 1038548

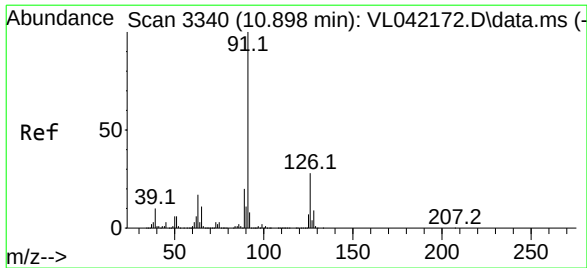
Ion Ratio Lower Upper

91 100

92 56.0 44.9 67.3

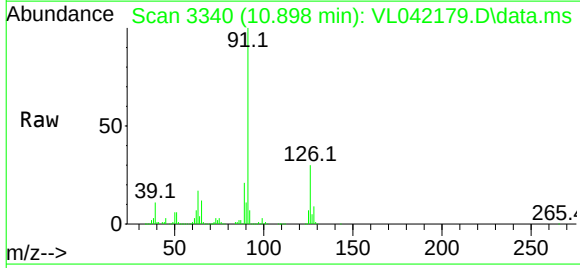
134 23.8 19.2 28.8





#71
2-Chlorotoluene
Concen: 9.382 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

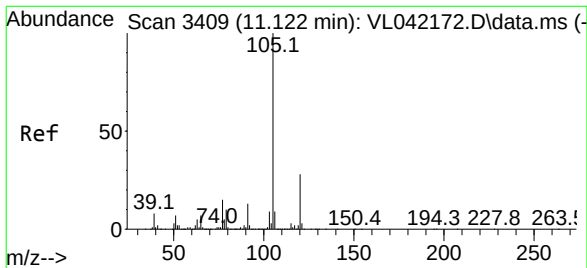
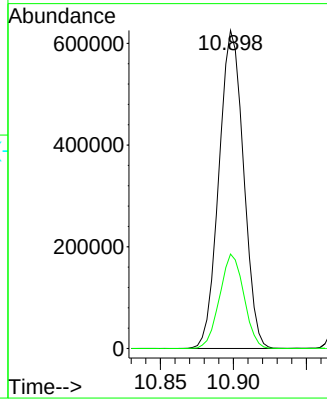
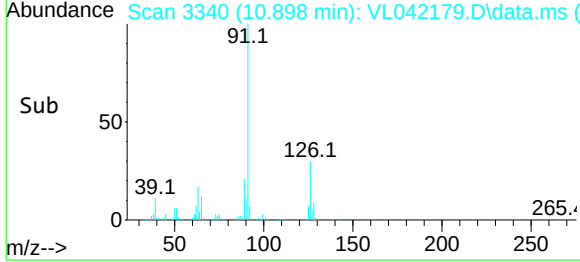
Instrument : MSVOA_L
ClientSampleId : ICVVL032725



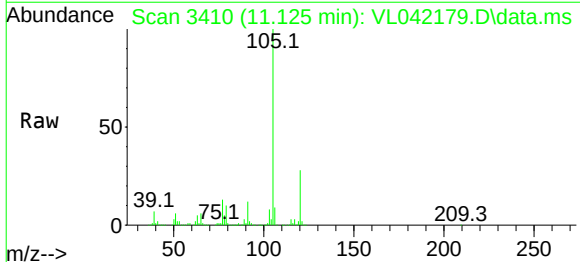
Tgt Ion: 91 Resp: 732874
Ion Ratio Lower Upper
91 100
126 29.2 11.6 46.4

Manual Integrations
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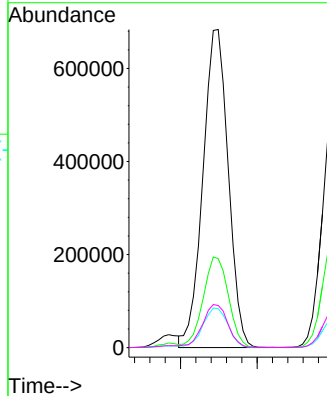
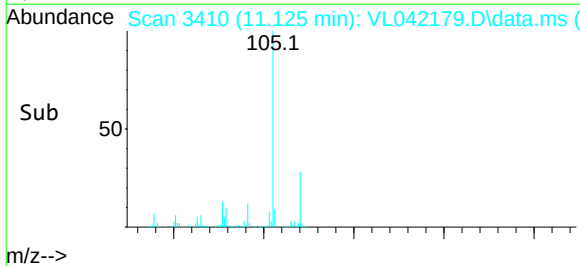
Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

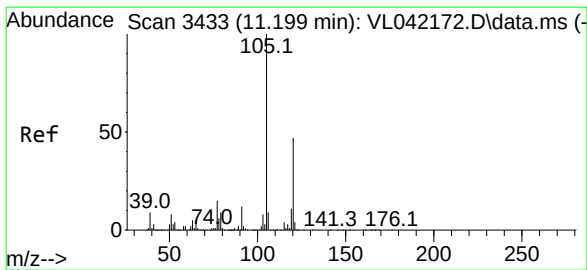


#72
4-Ethyltoluene
Concen: 9.370 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23



Tgt Ion:105 Resp: 785185
Ion Ratio Lower Upper
105 100
120 29.6 23.4 35.0
91 12.9 10.3 15.5
77 14.1 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 9.203 ppbv

RT: 11.202 min Scan# 3433

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032725

Tgt Ion:105 Resp: 673541

Ion Ratio Lower Upper

105 100

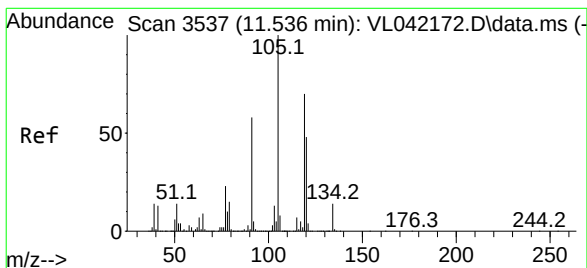
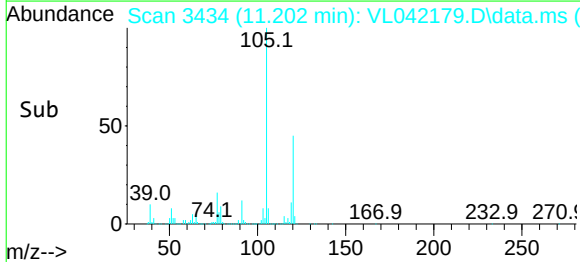
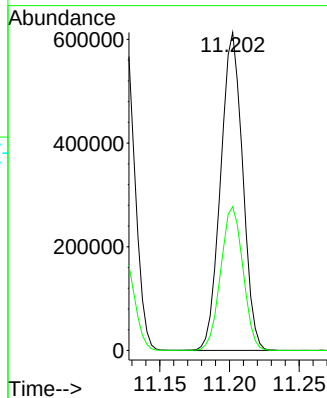
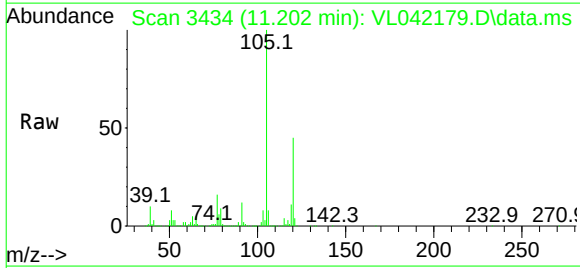
120 45.2 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025

Supervised By :Mahesh Dadoda 04/03/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.648 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion:105 Resp: 729155

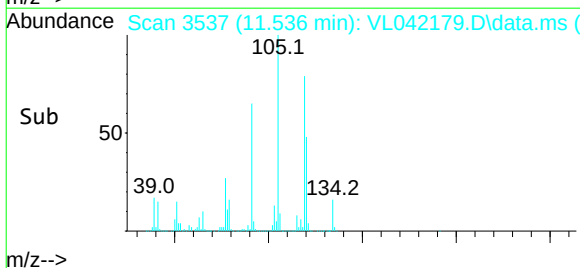
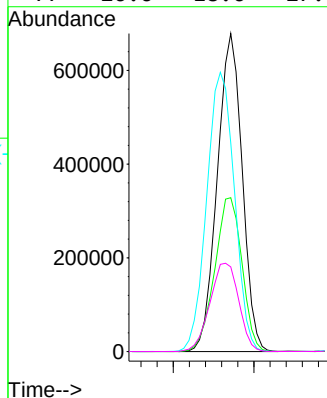
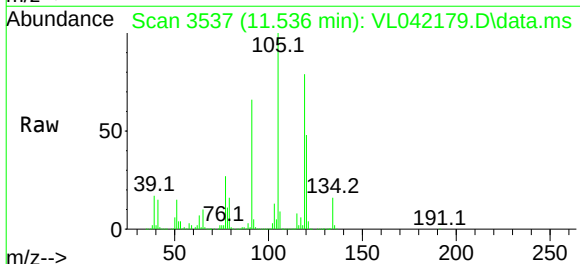
Ion Ratio Lower Upper

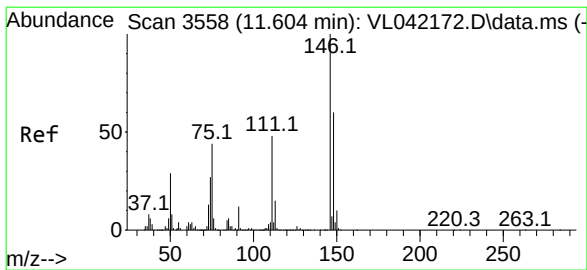
105 100

120 48.4 38.6 58.0

91 65.6 46.2 69.2

77 26.6 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 9.224 ppbv

RT: 11.607 min Scan# 3558

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

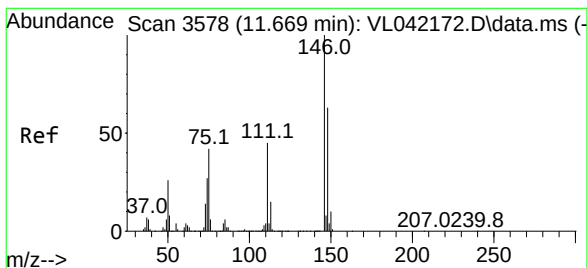
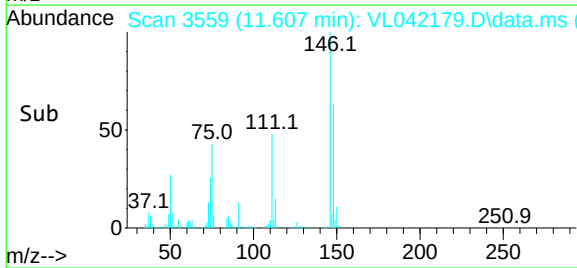
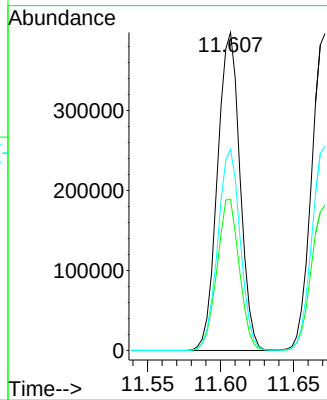
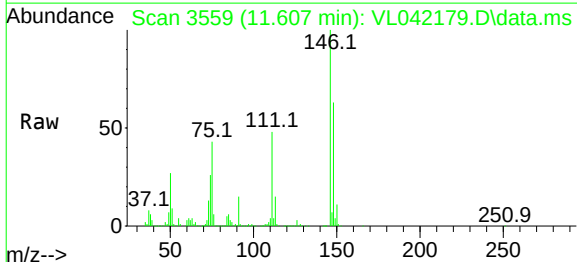
ICVVL032725

Tgt Ion:	146	Resp:	426573
Ion Ratio	Lower	Upper	
146	100		
111	47.2	23.8	71.2
148	62.9	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#76

1,4-Dichlorobenzene

Concen: 9.263 ppbv

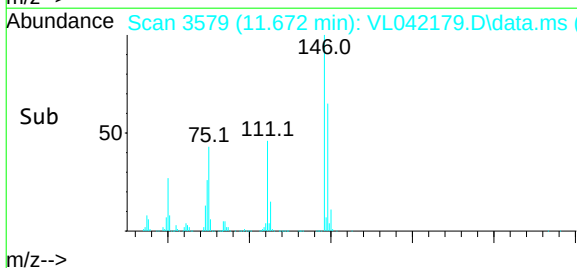
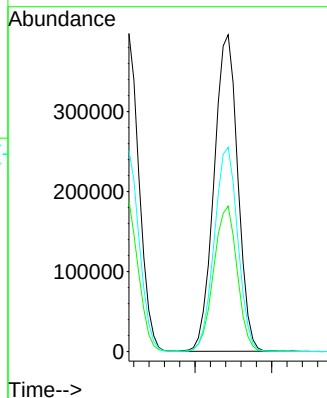
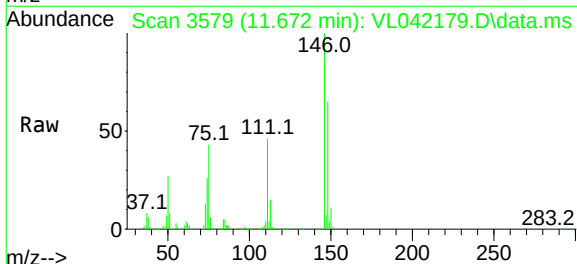
RT: 11.672 min Scan# 3579

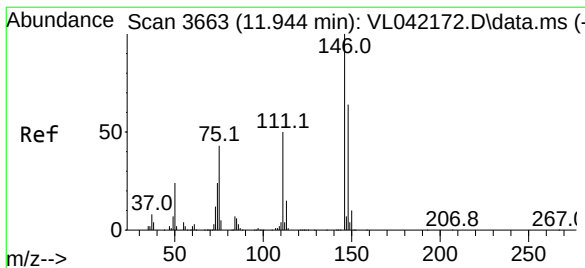
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion:	146	Resp:	426318
Ion Ratio	Lower	Upper	
146	100		
111	45.6	23.0	69.0
148	64.1	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 9.154 ppbv

RT: 11.947 min Scan# 3663

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

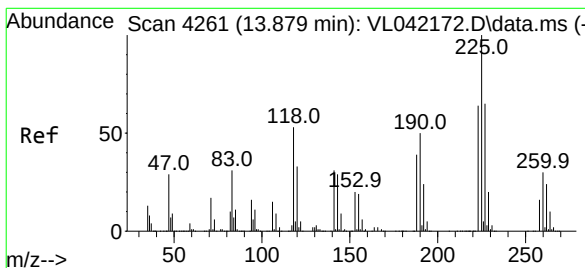
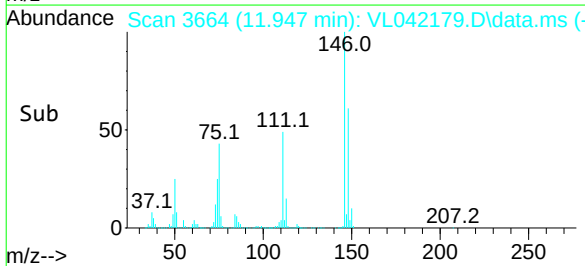
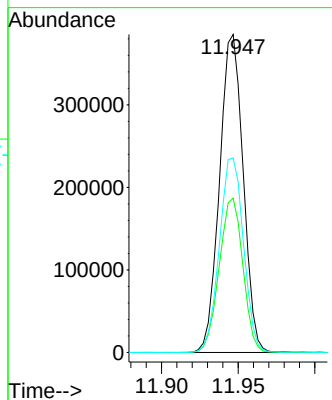
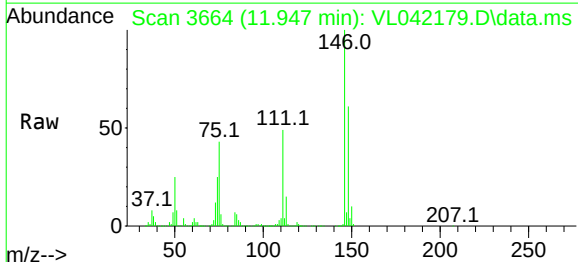
ICVVL032725

Tgt Ion:	146	Resp:	412180
Ion Ratio	Lower	Upper	
146	100		
111	48.8	24.8	74.3
148	62.8	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.776 ppbv

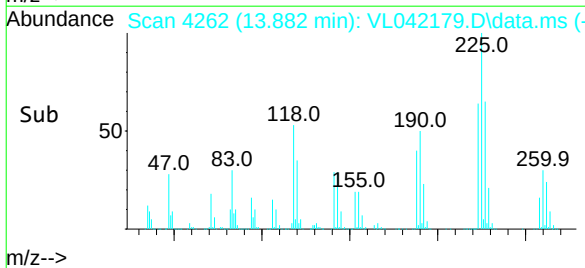
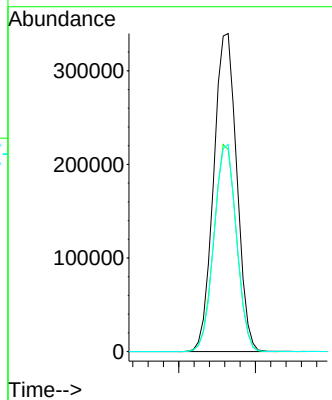
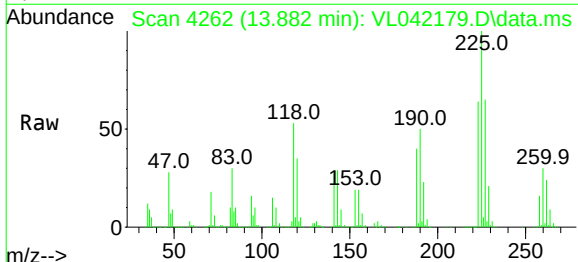
RT: 13.882 min Scan# 4262

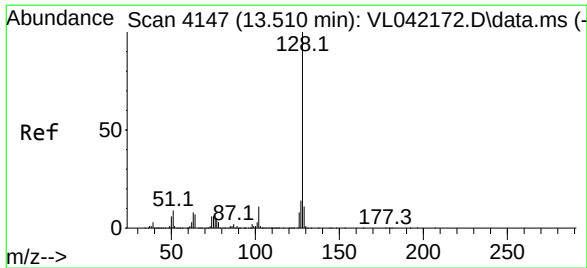
Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Tgt Ion:	225	Resp:	356386
Ion Ratio	Lower	Upper	
225	100		
223	63.4	50.6	76.0
227	63.4	51.2	76.8





#79

Naphthalene

Concen: 8.385 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

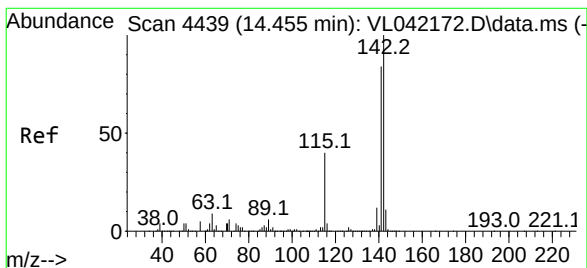
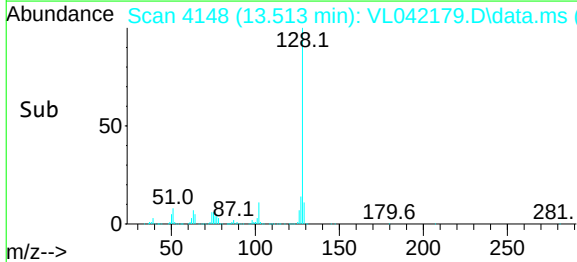
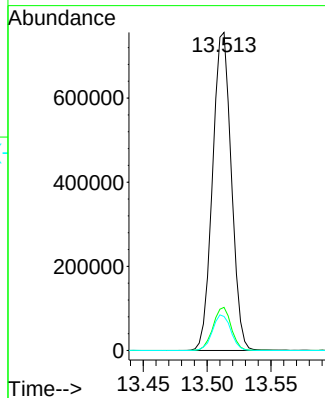
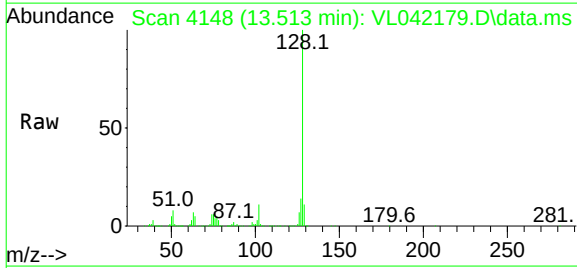
ICVVL032725

Tgt Ion:	128	Resp:	773311
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.8	16.2
129	10.7	9.0	13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



#80

Naphthalene, 2-methyl-

Concen: 7.151 ppbv

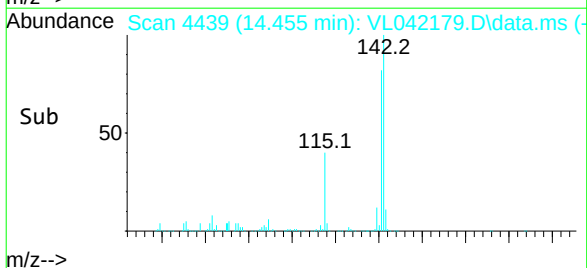
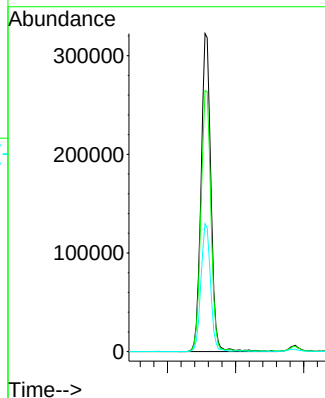
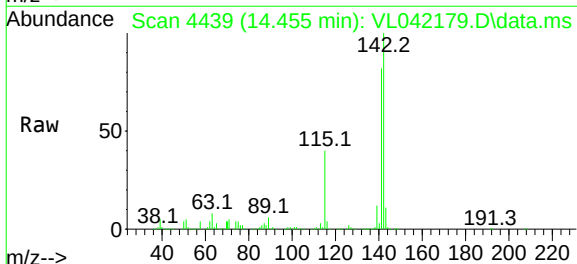
RT: 14.455 min Scan# 4439

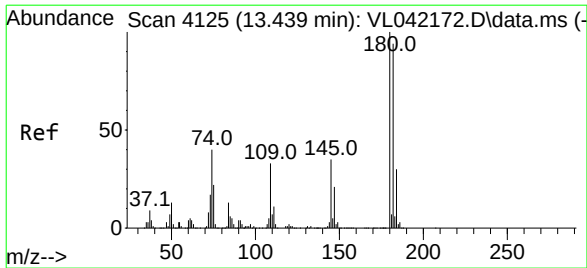
Delta R.T. -0.000 min

Lab File: VL042179.D

Acq: 27 Mar 2025 12:23

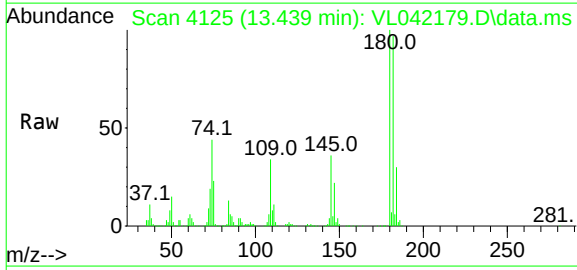
Tgt Ion:	142	Resp:	323443
Ion	Ratio	Lower	Upper
142	100		
141	83.5	66.3	99.5
115	39.8	31.6	47.4





#81
1,2,4-Trichlorobenzene
Concen: 8.553 ppbv
RT: 13.439 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042179.D
Acq: 27 Mar 2025 12:23

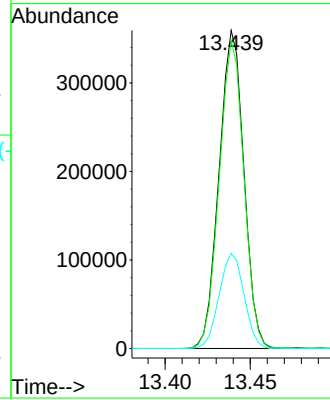
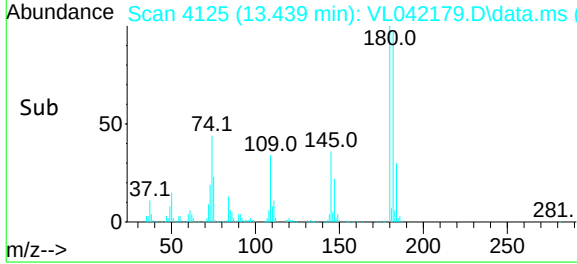
Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725



Tgt Ion:	180	Resp:	363863
Ion Ratio	Lower	Upper	
180	100		
182	96.2	75.1	112.7
184	30.1	24.4	36.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	1.476	1.409	4.5	94	0.00
3	Chlorodifluoromethane	1.508	1.417	6.0	91	0.00
4	Chloromethane	0.603	0.565	6.3	92	0.00
5 T	Vinyl Chloride	0.639	0.548	14.2	93	0.00
6 T	Bromomethane	0.273	0.241	11.7	87	0.00
7	Chloroethane	0.242	0.215	11.2	88	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.226	2.5	94	0.00
9 T	Propene	0.691	0.604	12.6	85	0.00
10 T	Heptane	1.839	1.714	6.8	89	0.00
11 T	Trichlorofluoromethane	1.437	1.358	5.5	95	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.113	5.8	93	0.00
13	Ethanol	0.065	0.033#	49.2#	108	0.00
14 T	Bromoethene	0.452	0.422	6.6	94	0.00
15 T	Acetone	1.399	1.137	18.7	95	0.00
16 T	1,3-Butadiene	0.683	0.561	17.9	91	0.00
17	tert-Butyl alcohol	1.742	1.584	9.1	91	0.00
18 T	1,1-Dichloroethene	0.552	0.500	9.4	92	0.00
19 T	Isopropyl Alcohol	0.789	0.704	10.8	93	0.00
20 T	Methylene Chloride	0.521	0.418	19.8	89	0.00
21 T	Allyl Chloride	0.986	0.903	8.4	93	0.00
22 T	trans-1,2-Dichloroethene	0.638	0.580	9.1	92	0.00
23 T	Vinyl Acetate	0.605	0.518	14.4	97	0.00
24 T	1,1-Dichloroethane	1.183	1.135	4.1	94	0.00
25 T	Ethyl Acetate	3.630	3.399	6.4	92	0.00
26 T	Hexane	1.402	1.326	5.4	93	0.00
27 T	Carbon Disulfide	1.503	1.427	5.1	93	0.00
28 T	Methyl tert-Butyl Ether	0.873	0.840	3.8	94	0.00
29 T	Chloroform	2.052	1.974	3.8	95	0.00
30 T	Cyclohexane	1.217	1.135	6.7	91	0.00
31 T	cis-1,2-Dichloroethene	1.423	1.345	5.5	91	0.00
32 T	1,1,1-Trichloroethane	2.349	2.096	10.8	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.725	0.665	8.3	91	0.00
35 T	Carbon Tetrachloride	0.781	0.730	6.5	95	0.00
36 T	Benzene	0.991	0.926	6.6	91	0.00
37 T	1,2-Dichloroethane	0.568	0.549	3.3	93	0.00
38 T	Trichloroethene	0.414	0.385	7.0	94	0.00
39 T	1,2-Dichloropropane	0.361	0.343	5.0	93	0.00
40 T	1,4-Dioxane	0.192	0.162	15.6	87	0.00
41 T	Tetrahydrofuran	0.418	0.394	5.7	90	0.00
42 T	Bromodichloromethane	0.782	0.771	1.4	92	0.00
43	Methyl Methacrylate	0.420	0.392	6.7	89	0.00
44 T	2,2,4-Trimethylpentane	1.675	1.581	5.6	90	0.00
45 T	t-1,3-Dichloropropene	0.450	0.426	5.3	89	0.00
46 T	cis-1,3-Dichloropropene	0.552	0.532	3.6	88	0.00
47 T	1,1,2-Trichloroethane	0.382	0.368	3.7	92	0.00
48 T	Dibromochloromethane	0.647	0.648	-0.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.572	1.5	90	0.00
50 T	4-Methyl-2-Pentanone	1.149	1.005	12.5	89	0.00
51 T	2-Hexanone	0.944	0.825	12.6	89	0.00
52 T	Tetrachloroethene	0.393	0.348	11.5	93	0.00
53 T	Toluene	1.175	1.118	4.9	91	0.00
54 T	1,2-Dibromoethane	0.532	0.516	3.0	93	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56	1,1,1,2-Tetrachloroethane	0.550	0.527	4.2	94	0.00
57 T	Chlorobenzene	0.949	0.893	5.9	93	0.00
58 T	Ethyl Benzene	1.776	1.672	5.9	91	0.00
59 T	m/p-Xylene	1.418	1.331	6.1	92	0.00
60 T	o-Xylene	1.422	1.337	6.0	92	0.00
61 T	Styrene	0.703	0.667	5.1	89	0.00
62	Isopropylbenzene	2.126	1.996	6.1	93	0.00
63 T	1,1,2,2-Tetrachloroethane	0.864	0.808	6.5	93	0.00
64	n-propylbenzene	0.547	0.517	5.5	94	0.00
65	tert-Butylbenzene	1.966	1.783	9.3	94	0.00
66 T	Benzyl Chloride	0.209	0.183	12.4	82	0.00
67	sec-Butylbenzene	2.733	2.477	9.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	0.821	0.803	2.2	90	0.00
69	p-Isopropyltoluene	2.354	2.154	8.5	94	0.00
70	n-Butylbenzene	2.407	2.194	8.8	94	0.00
71	2-Chlorotoluene	1.650	1.548	6.2	92	0.00
72 T	4-Ethyltoluene	1.770	1.659	6.3	93	0.00
73 T	1,3,5-Trimethylbenzene	1.546	1.423	8.0	93	0.00
74 T	1,2,4-Trimethylbenzene	1.781	1.540	13.5	93	0.00
75 T	1,3-Dichlorobenzene	0.977	0.901	7.8	93	0.00
76 T	1,4-Dichlorobenzene	0.972	0.901	7.3	92	0.00
77 T	1,2-Dichlorobenzene	0.951	0.871	8.4	93	0.00
78 T	Hexachloro-1,3-Butadiene	0.968	0.753	22.2	86	0.00
79 T	Naphthalene	1.948	1.634	16.1	82	0.00
80 T	Naphthalene,2-methyl-	0.955	0.683	28.5	63	0.00
81 T	1,2,4-Trichlorobenzene	0.899	0.769	14.5	82	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	10.000	9.545	4.6	94	0.00
3	Chlorodifluoromethane	10.000	9.394	6.1	91	0.00
4	Chloromethane	10.000	9.365	6.3	92	0.00
5 T	Vinyl Chloride	10.000	8.573	14.3	93	0.00
6 T	Bromomethane	10.000	8.799	12.0	87	0.00
7	Chloroethane	10.000	8.856	11.4	88	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.753	2.5	94	0.00
9 T	Propene	10.000	8.739	12.6	85	0.00
10 T	Heptane	10.000	9.318	6.8	89	0.00
11 T	Trichlorofluoromethane	10.000	9.453	5.5	95	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.421	5.8	93	0.00
13	Ethanol	10.000	5.066	49.3#	108	0.00
14 T	Bromoethene	10.000	9.328	6.7	94	0.00
15 T	Acetone	10.000	8.132	18.7	95	0.00
16 T	1,3-Butadiene	10.000	8.216	17.8	91	0.00
17	tert-Butyl alcohol	10.000	9.094	9.1	91	0.00
18 T	1,1-Dichloroethene	10.000	9.053	9.5	92	0.00
19 T	Isopropyl Alcohol	10.000	8.923	10.8	93	0.00
20 T	Methylene Chloride	10.000	8.018	19.8	89	0.00
21 T	Allyl Chloride	10.000	9.154	8.5	93	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.092	9.1	92	0.00
23 T	Vinyl Acetate	10.000	8.553	14.5	97	0.00
24 T	1,1-Dichloroethane	10.000	9.600	4.0	94	0.00
25 T	Ethyl Acetate	10.000	9.364	6.4	92	0.00
26 T	Hexane	10.000	9.455	5.4	93	0.00
27 T	Carbon Disulfide	10.000	9.493	5.1	93	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.624	3.8	94	0.00
29 T	Chloroform	10.000	9.619	3.8	95	0.00
30 T	Cyclohexane	10.000	9.323	6.8	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.449	5.5	91	0.00
32 T	1,1,1-Trichloroethane	10.000	8.921	10.8	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.171	8.3	91	0.00
35 T	Carbon Tetrachloride	10.000	9.339	6.6	95	0.00
36 T	Benzene	10.000	9.341	6.6	91	0.00
37 T	1,2-Dichloroethane	10.000	9.676	3.2	93	0.00
38 T	Trichloroethene	10.000	9.306	6.9	94	0.00
39 T	1,2-Dichloropropane	10.000	9.500	5.0	93	0.00
40 T	1,4-Dioxane	10.000	8.443	15.6	87	0.00
41 T	Tetrahydrofuran	10.000	9.431	5.7	90	0.00
42 T	Bromodichloromethane	10.000	9.853	1.5	92	0.00
43	Methyl Methacrylate	10.000	9.344	6.6	89	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.436	5.6	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.467	5.3	89	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.643	3.6	88	0.00
47 T	1,1,2-Trichloroethane	10.000	9.638	3.6	92	0.00
48 T	Dibromochloromethane	10.000	10.018	-0.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	9.858	1.4	90	0.00
50 T	4-Methyl-2-Pentanone	10.000	8.749	12.5	89	0.00
51 T	2-Hexanone	10.000	8.741	12.6	89	0.00
52 T	Tetrachloroethene	10.000	8.855	11.4	93	0.00
53 T	Toluene	10.000	9.514	4.9	91	0.00
54 T	1,2-Dibromoethane	10.000	9.695	3.0	93	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	91	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.567	4.3	94	0.00
57 T	Chlorobenzene	10.000	9.411	5.9	93	0.00
58 T	Ethyl Benzene	10.000	9.412	5.9	91	0.00
59 T	m/p-Xylene	20.000	18.772	6.1	92	0.00
60 T	o-Xylene	10.000	9.404	6.0	92	0.00
61 T	Styrene	10.000	9.488	5.1	89	0.00
62	Isopropylbenzene	10.000	9.388	6.1	93	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.357	6.4	93	0.00
64	n-propylbenzene	10.000	9.439	5.6	94	0.00
65	tert-Butylbenzene	10.000	9.065	9.4	94	0.00
66 T	Benzyl Chloride	10.000	8.789	12.1	82	0.00
67	sec-Butylbenzene	10.000	9.063	9.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.774	2.3	90	0.00
69	p-Isopropyltoluene	10.000	9.153	8.5	94	0.00
70	n-Butylbenzene	10.000	9.115	8.8	94	0.00
71	2-Chlorotoluene	10.000	9.382	6.2	92	0.00
72 T	4-Ethyltoluene	10.000	9.370	6.3	93	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.203	8.0	93	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.648	13.5	93	0.00
75 T	1,3-Dichlorobenzene	10.000	9.224	7.8	93	0.00
76 T	1,4-Dichlorobenzene	10.000	9.263	7.4	92	0.00
77 T	1,2-Dichlorobenzene	10.000	9.154	8.5	93	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.776	22.2	86	0.00
79 T	Naphthalene	10.000	8.385	16.2	82	0.00
80 T	Naphthalene,2-methyl-	10.000	7.151	28.5	63	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.553	14.5	82	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.: Q1757 SAS No.: Q1757 SDG No.: Q1757

Instrument ID: MSVOA_L Calibration Date/Time: 04/09/2025 10:20

Lab File ID: VL042286.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.639	0.560		-12.36	30
Heptane	1.839	1.800		-2.12	30
1,1-Dichloroethene	0.552	0.499		-9.6	30
Cyclohexane	1.217	1.095		-10.02	30
cis-1,2-Dichloroethene	1.423	1.297		-8.85	30
1,1,1-Trichloroethane	2.349	2.135		-9.11	30
2,2,4-Trimethylpentane	1.675	1.869		11.58	30
Benzene	0.991	1.071		8.07	30
Trichloroethene	0.414	0.429		3.62	30
Toluene	1.175	1.171		-0.34	30
Tetrachloroethene	0.393	0.357		-9.16	30
Ethyl Benzene	1.776	1.924		8.33	30
m/p-Xylene	1.418	1.658		16.92	30
o-Xylene	1.422	1.659		16.67	30
1,3,5-Trimethylbenzene	1.546	1.772		14.62	30
1,2,4-Trimethylbenzene	1.781	2.025		13.7	30
Naphthalene	1.948	2.309		18.53	30
1-Bromo-4-Fluorobenzene	0.821	0.815		-0.73	30
Hexane	1.402	1.381		-1.5	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\VL040925\
 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:39:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	155631	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	397176	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	350140	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 285515 9.930 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	224739	9.780	ppbv	99
3) Chlorodifluoromethane	1.473	51	242368	10.325	ppbv	99
4) Chloromethane	1.531	50	94421	10.054	ppbv	99
5) Vinyl Chloride	1.580	62	87077	8.750	ppbv	96
6) Bromomethane	1.667	94	38883	9.136	ppbv	95
7) Chloroethane	1.703	64	35019	9.290	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	193376	9.882	ppbv	92
9) Propene	1.483	41	92247	8.573	ppbv	98
10) Heptane	4.972	43	280156	9.789	ppbv	99
11) Trichlorofluoromethane	1.874	101	218729	9.783	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	178752	9.726	ppbv	98
13) Ethanol	1.719	45	4608	4.530	ppbv	92
14) Bromoethene	1.781	108	61204	8.693	ppbv	97
15) Acetone	1.832	43	196063	9.008	ppbv	96
16) 1,3-Butadiene	1.606	39	94932	8.931	ppbv	98
17) tert-Butyl alcohol	2.040	59	220187	8.122	ppbv	98
18) 1,1-Dichloroethene	2.033	96	77686	9.042	ppbv	98
19) Isopropyl Alcohol	1.884	45	103348	8.415	ppbv	93
20) Methylene Chloride	2.059	84	68588	8.461	ppbv	95
21) Allyl Chloride	2.095	41	139965	9.118	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	88334	8.896	ppbv	94
23) Vinyl Acetate	2.460	43	73162	7.766	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	180404	9.801	ppbv	99
25) Ethyl Acetate	2.833	43	567125	10.039	ppbv	98
26) Hexane	2.823	57	214891	9.848	ppbv	97
27) Carbon Disulfide	2.146	76	216499	9.253	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	109726	8.077	ppbv	94
29) Chloroform	2.845	83	340889	10.675	ppbv	99
30) Cyclohexane	3.852	84	170359	8.991	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	201796	9.110	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	332252	9.088	ppbv	98
34) 2-Butanone	2.554	43	313515	10.886	ppbv	98
35) Carbon Tetrachloride	3.758	117	349240	11.256	ppbv	100
36) Benzene	3.651	78	425324	10.802	ppbv	97
37) 1,2-Dichloroethane	3.214	62	256791	11.391	ppbv	99
38) Trichloroethene	4.541	130	170362	10.370	ppbv	97
39) 1,2-Dichloropropane	4.312	63	153583	10.710	ppbv	95
40) 1,4-Dioxane	4.577	88	72604	9.539	ppbv #	95
41) Tetrahydrofuran	3.053	42	175060	10.556	ppbv	95
42) Bromodichloromethane	4.483	83	358962	11.551	ppbv	100
43) Methyl Methacrylate	4.875	69	154975	9.297	ppbv	97
44) 2,2,4-Trimethylpentane	4.635	57	742388	11.157	ppbv	96
45) t-1,3-Dichloropropene	6.412	75	147204	8.231	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:39:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	195802	8.932	ppbv	98
47) 1,1,2-Trichloroethane	6.574	97	172343	11.369	ppbv	97
48) Dibromochloromethane	7.380	129	280199	10.907	ppbv	100
49) Bromoform	9.481	173	250227	10.849	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	445454	9.760	ppbv	95
51) 2-Hexanone	7.432	43	353706	9.437	ppbv #	94
52) Tetrachloroethene	8.222	164	141976	9.092	ppbv	95
53) Toluene	6.927	91	464948	9.961	ppbv	99
54) 1,2-Dibromoethane	7.649	107	229720	10.871	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.921	131	231041	11.987	ppbv	98
57) Chlorobenzene	8.917	112	399227	12.021	ppbv	93
58) Ethyl Benzene	9.351	91	673801	10.834	ppbv	98
59) m/p-Xylene	9.549	91	1161067m	23.379	ppbv	
60) o-Xylene	9.960	91	581045	11.671	ppbv	97
61) Styrene	9.869	104	251525	10.212	ppbv	98
62) Isopropylbenzene	10.536	105	859013	11.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.960	83	381841	12.623	ppbv	99
64) n-propylbenzene	10.986	120	228532	11.925	ppbv	100
65) tert-Butylbenzene	11.529	119	784483	11.393	ppbv	100
66) Benzyl Chloride	11.614	91	57966	7.934	ppbv	100
67) sec-Butylbenzene	11.766	105	1128106	11.787	ppbv	100
69) p-Isopropyltoluene	11.924	119	961623	11.669	ppbv	99
70) n-Butylbenzene	12.280	91	998455	11.847	ppbv	99
71) 2-Chlorotoluene	10.898	91	654276	11.323	ppbv	98
72) 4-Ethyltoluene	11.122	105	728517	11.753	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	620415	11.460	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	709204	11.371	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	426300	12.462	ppbv	98
76) 1,4-Dichlorobenzene	11.669	146	423561	12.442	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	419286	12.589	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	334414	9.864	ppbv	99
79) Naphthalene	13.513	128	808459	11.851	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	373298	11.158	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	355741	11.305	ppbv	100

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

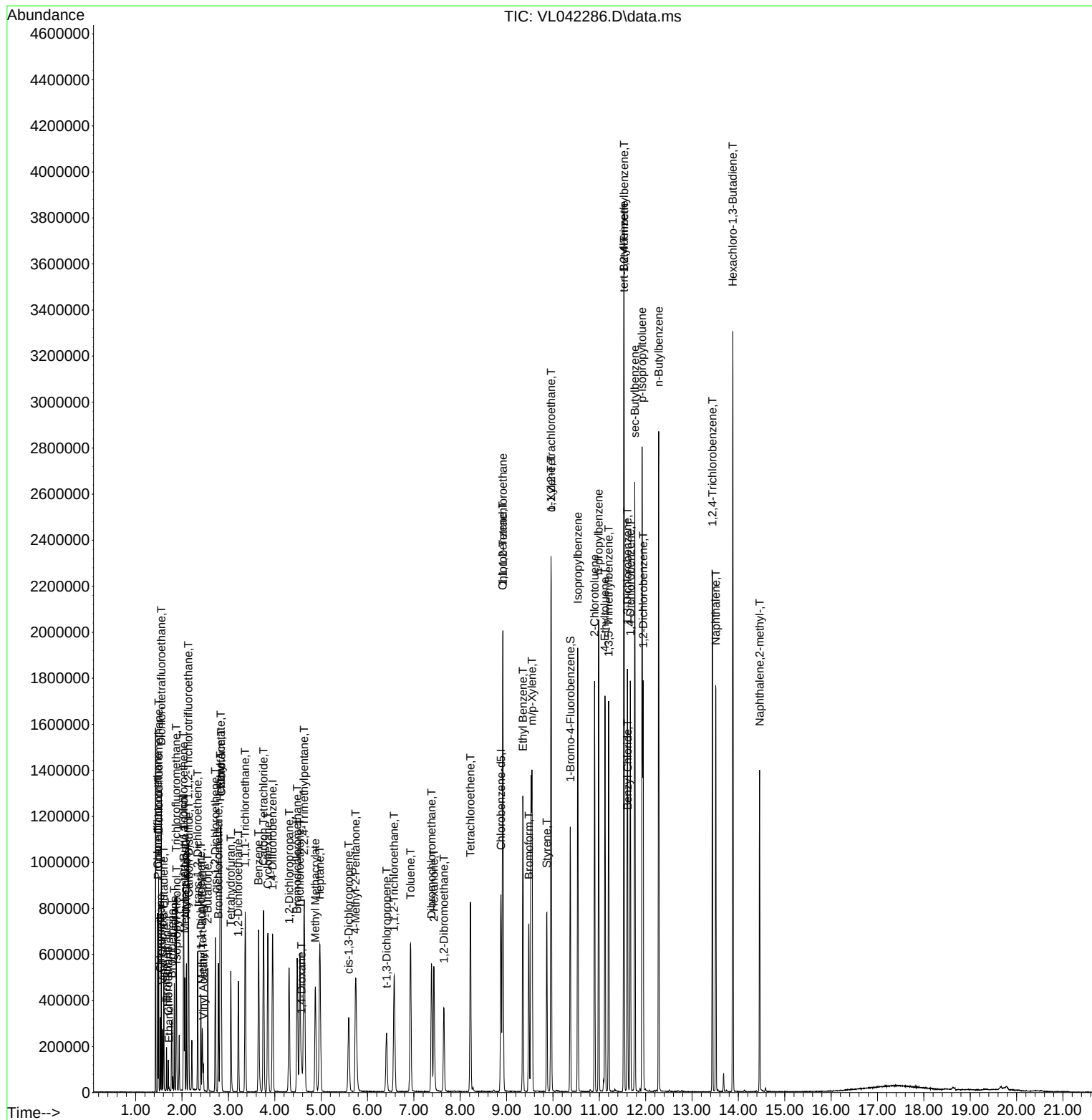
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 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

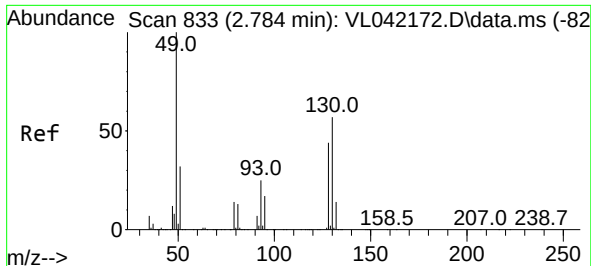
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

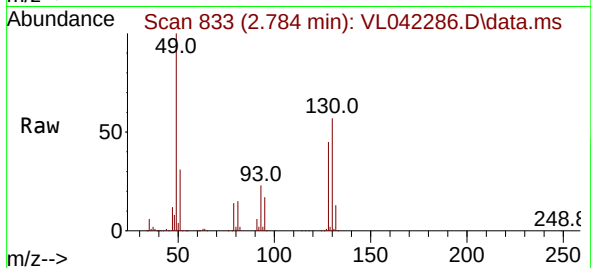
Quant Time: Apr 10 01:39:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

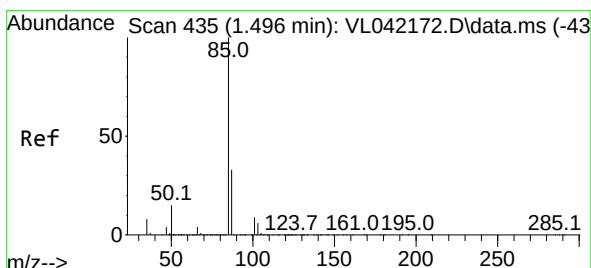
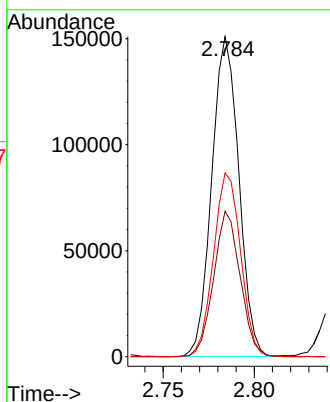
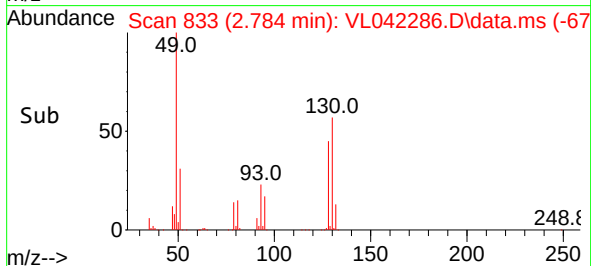
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



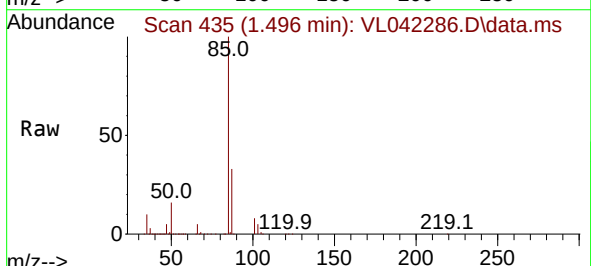
Tgt Ion: 49 Resp: 15563
Ion Ratio Lower Upper
49 100
128 44.6 22.9 68.5
130 57.7 28.8 86.4

Manual Integrations
APPROVED

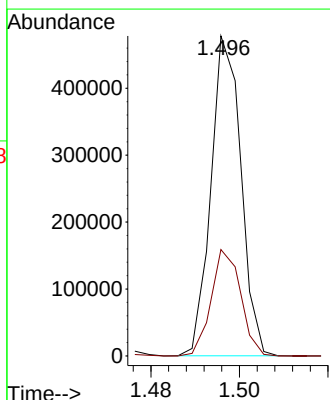
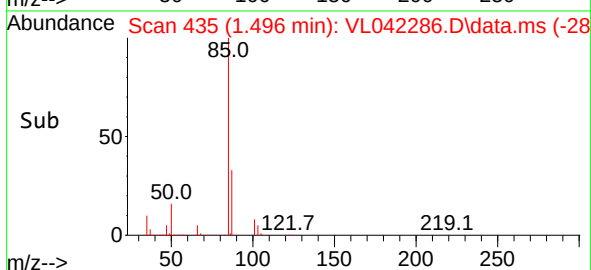
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

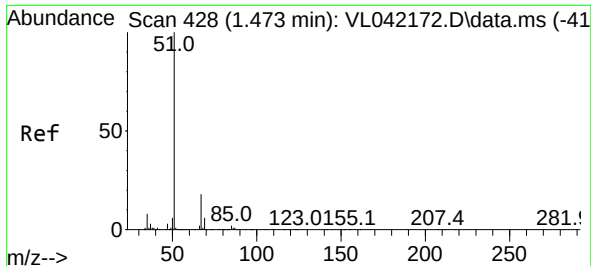


#2
Dichlorodifluoromethane
Concen: 9.780 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



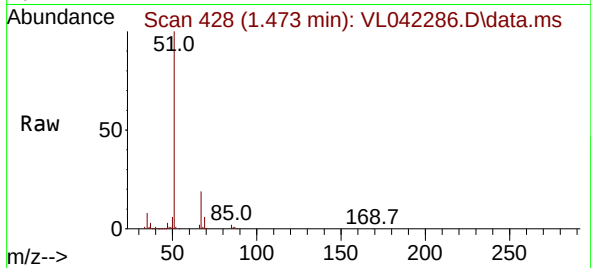
Tgt Ion: 85 Resp: 224739
Ion Ratio Lower Upper
85 100
87 33.3 26.1 39.1





#3
Chlorodifluoromethane
Concen: 10.325 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

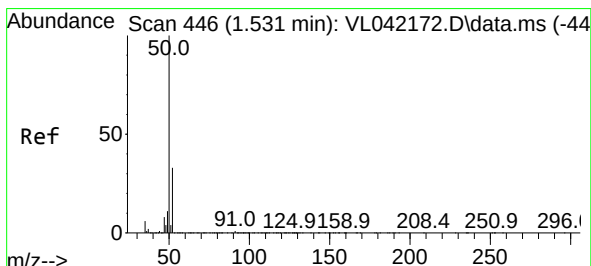
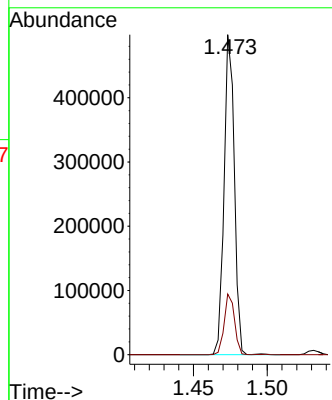
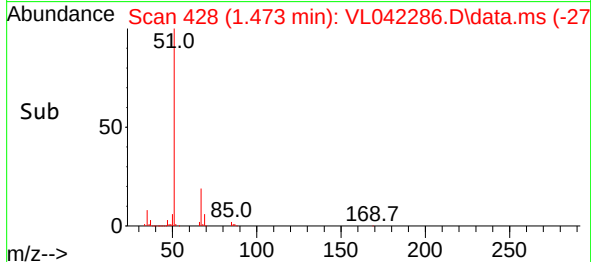
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



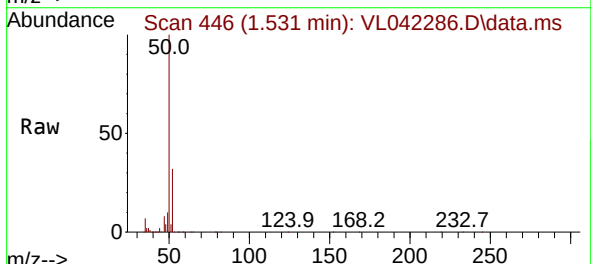
Tgt Ion: 51 Resp: 242368
Ion Ratio Lower Upper
51 100
67 19.0 15.0 22.6

Manual Integrations
APPROVED

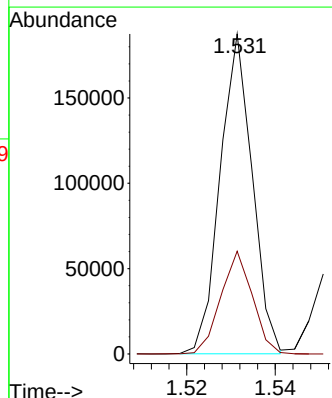
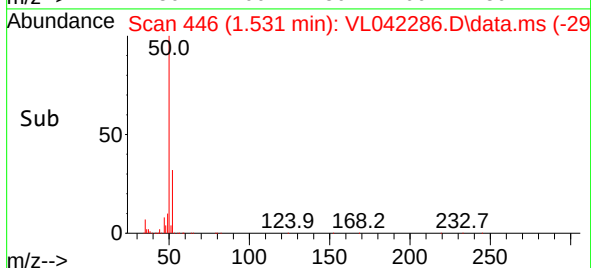
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

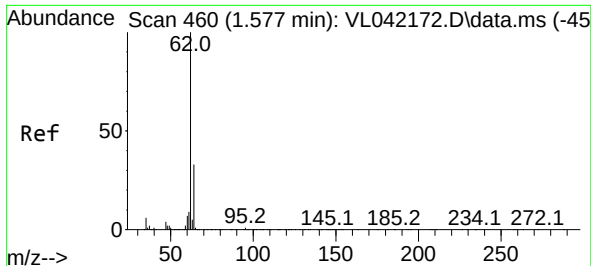


#4
Chloromethane
Concen: 10.054 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



Tgt Ion: 50 Resp: 94421
Ion Ratio Lower Upper
50 100
52 32.1 26.1 39.1





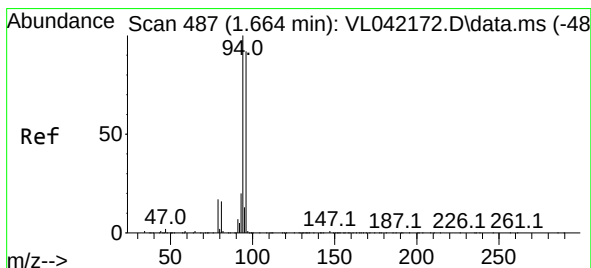
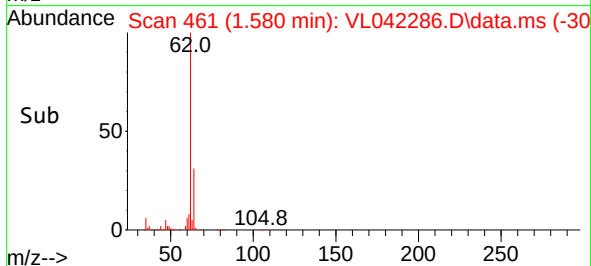
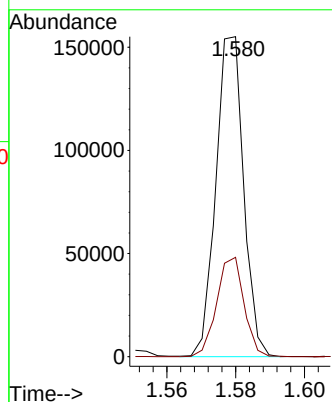
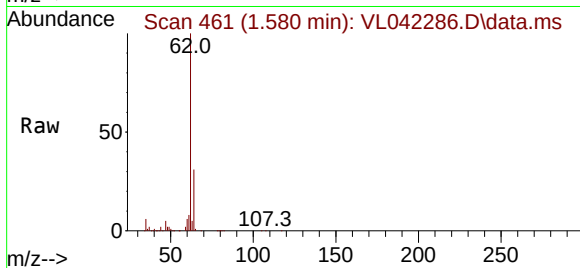
#5
 Vinyl Chloride
 Concen: 8.750 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 62 Resp: 8707
 Ion Ratio Lower Upper
 62 100
 64 31.1 26.6 40.0

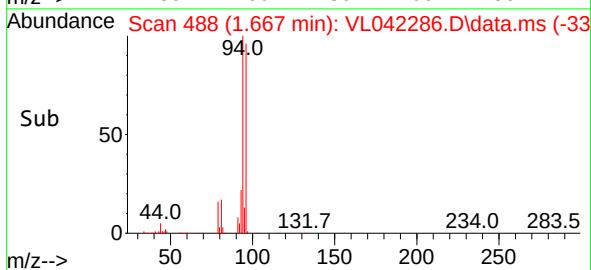
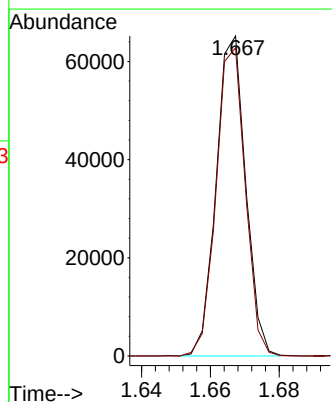
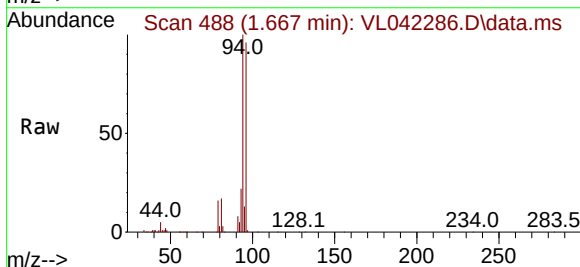
Manual Integrations
 APPROVED

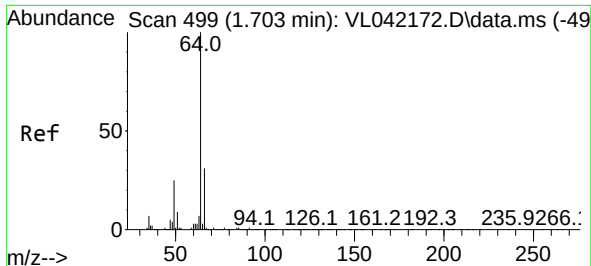
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#6
 Bromomethane
 Concen: 9.136 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

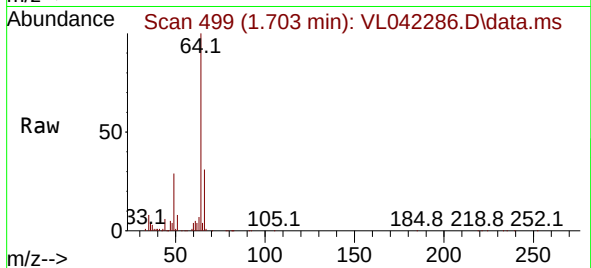
Tgt Ion: 94 Resp: 38883
 Ion Ratio Lower Upper
 94 100
 96 96.3 73.1 109.7





#7
Chloroethane
Concen: 9.290 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

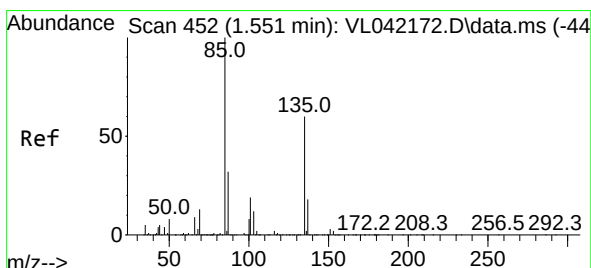
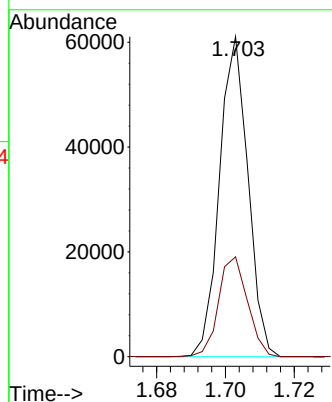
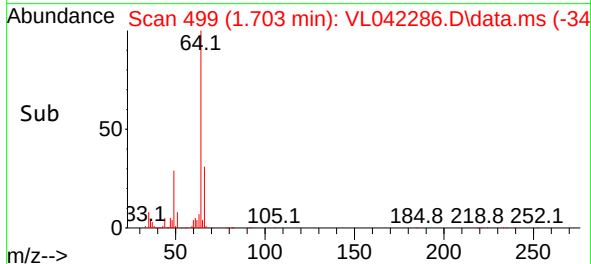
Instrument :
MSVOA_L
Client Sample Id :
VSTDCCC010



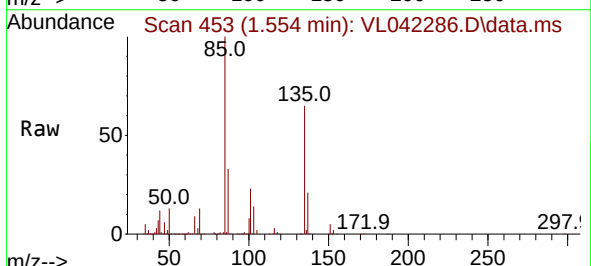
Tgt Ion: 64 Resp: 35019
Ion Ratio Lower Upper
64 100
66 31.2 25.2 37.8

Manual Integrations
APPROVED

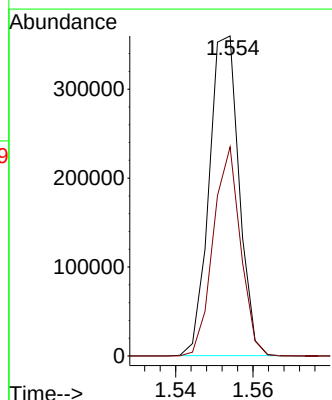
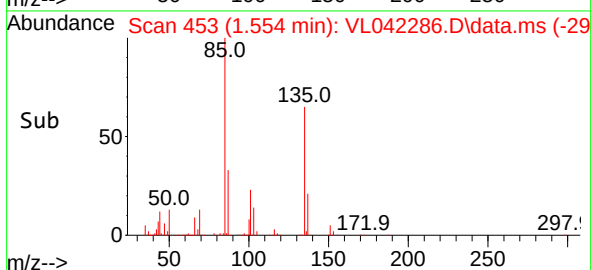
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

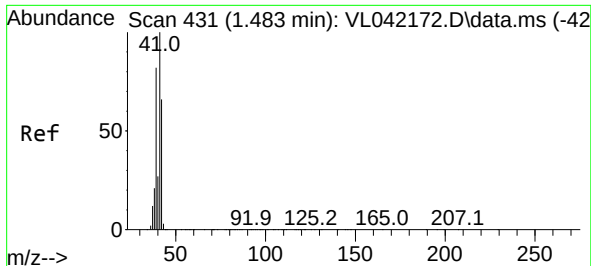


#8
Dichlorotetrafluoroethane
Concen: 9.882 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



Tgt Ion: 85 Resp: 193376
Ion Ratio Lower Upper
85 100
135 59.6 52.4 78.6





#9

Propene

Concen: 8.573 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 9224

Ion Ratio Lower Upper

41 100

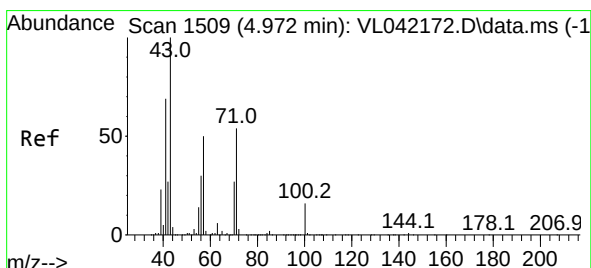
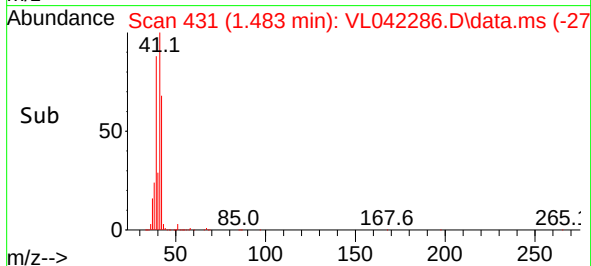
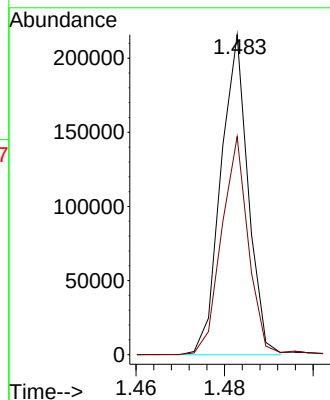
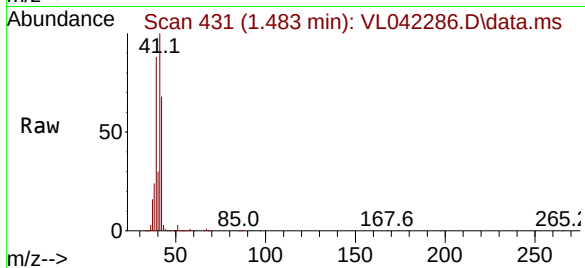
42 67.9 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#10

Heptane

Concen: 9.789 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VL042286.D

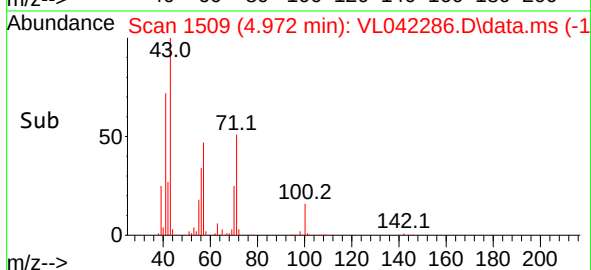
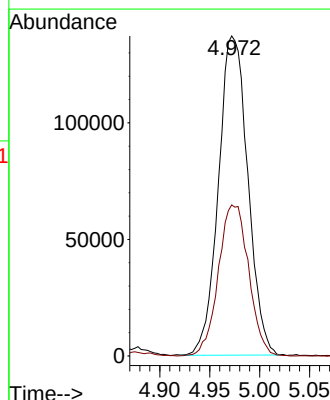
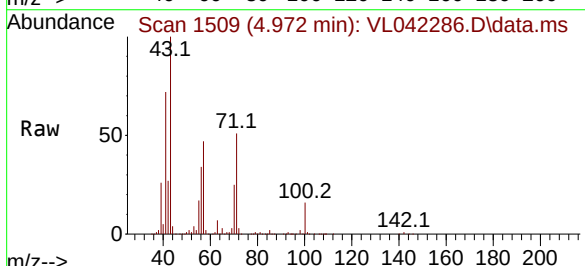
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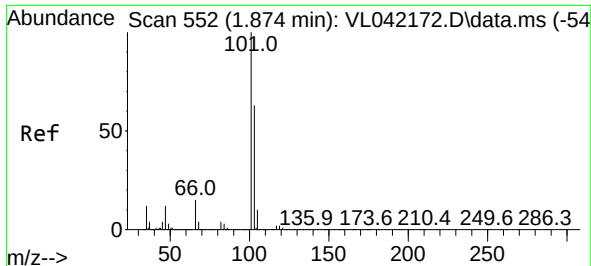
Tgt Ion: 43 Resp: 280156

Ion Ratio Lower Upper

43 100

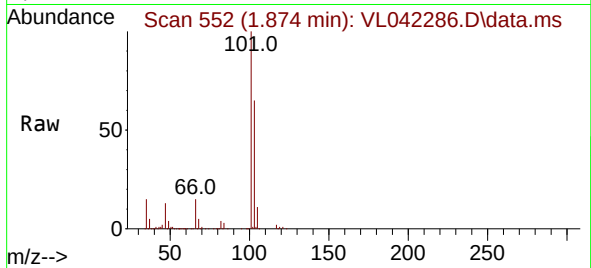
57 48.8 39.4 59.2





#11
 Trichlorofluoromethane
 Concen: 9.783 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

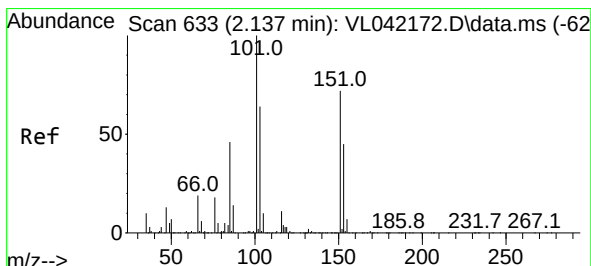
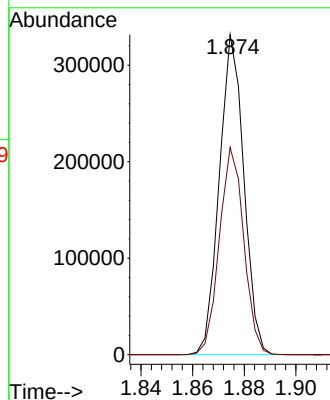
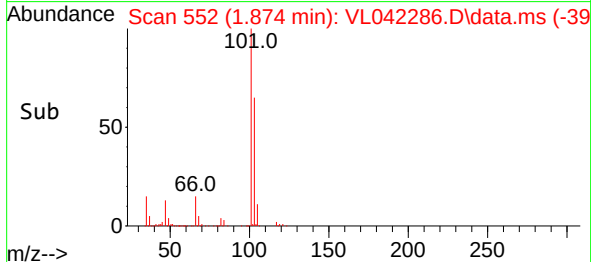
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



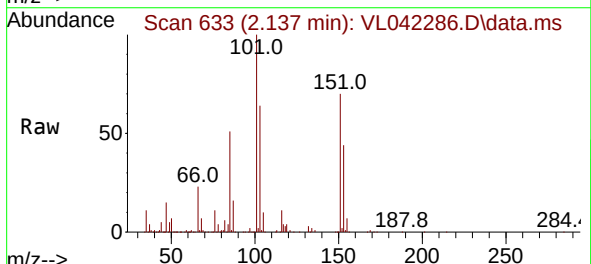
Tgt Ion:101 Resp: 218729
 Ion Ratio Lower Upper
 101 100
 103 64.8 50.2 75.2

Manual Integrations
 APPROVED

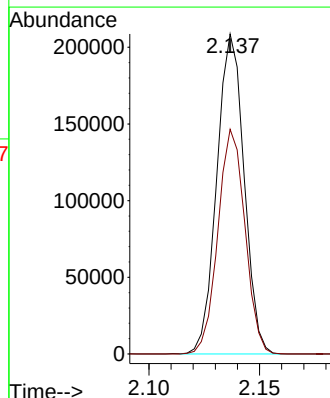
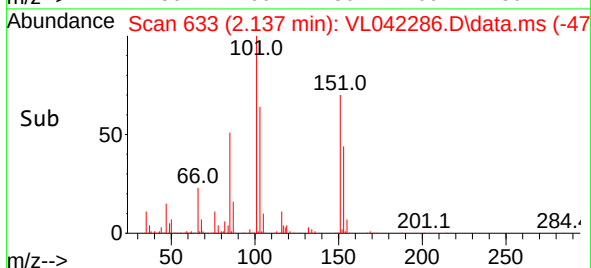
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

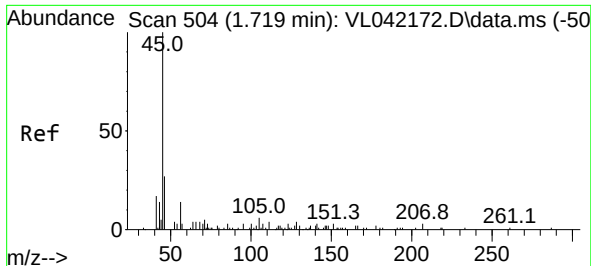


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.726 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20



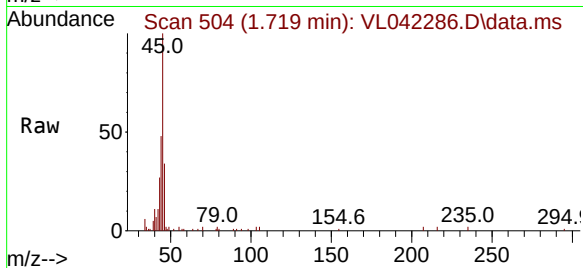
Tgt Ion:101 Resp: 178752
 Ion Ratio Lower Upper
 101 100
 151 69.7 57.1 85.7





#13
Ethanol
Concen: 4.530 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

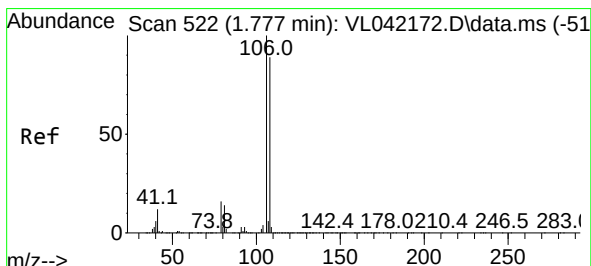
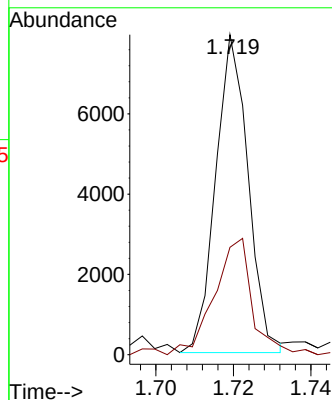
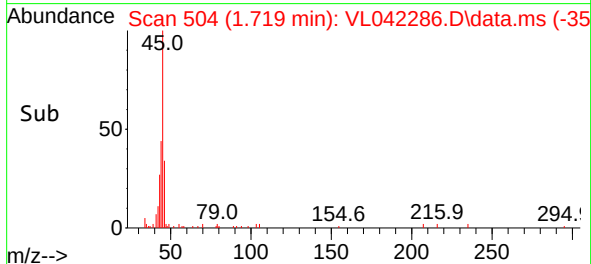
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



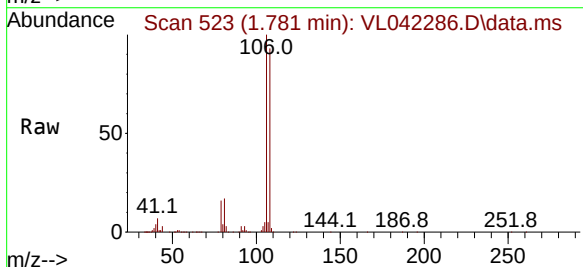
Tgt Ion: 45 Resp: 4608
Ion Ratio Lower Upper
45 100
46 44.9 20.2 80.8

Manual Integrations
APPROVED

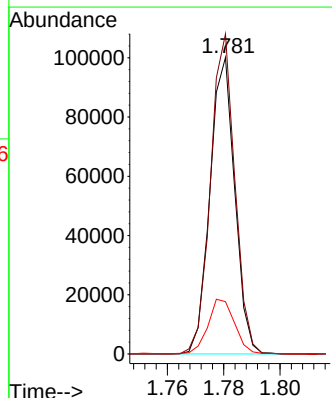
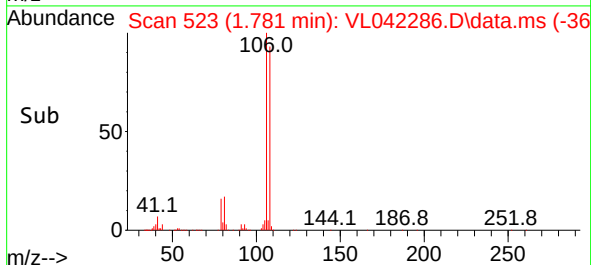
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

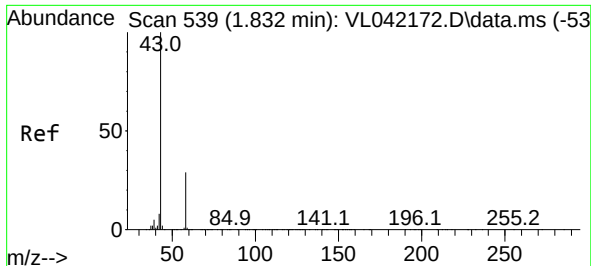


#14
Bromoethene
Concen: 8.693 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



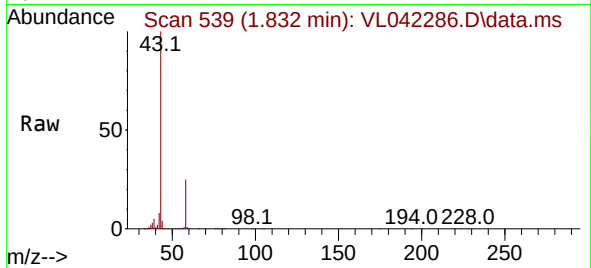
Tgt Ion:108 Resp: 61204
Ion Ratio Lower Upper
108 100
106 105.7 86.8 130.2
79 20.3 15.0 22.6





#15
Acetone
Concen: 9.008 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

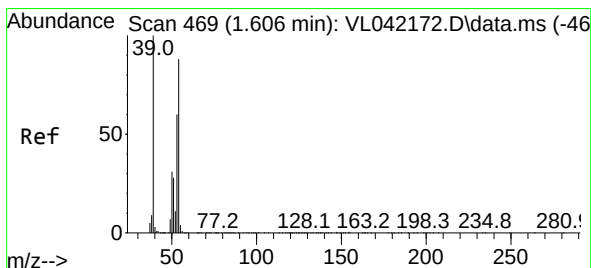
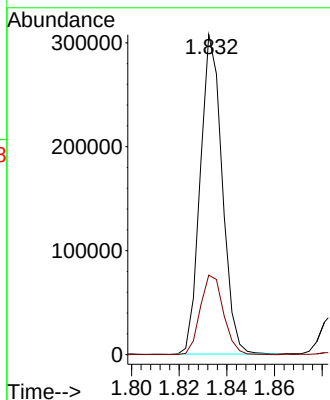
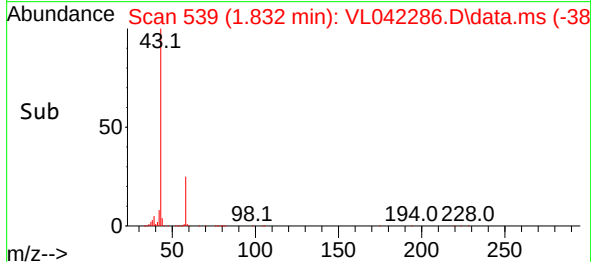
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



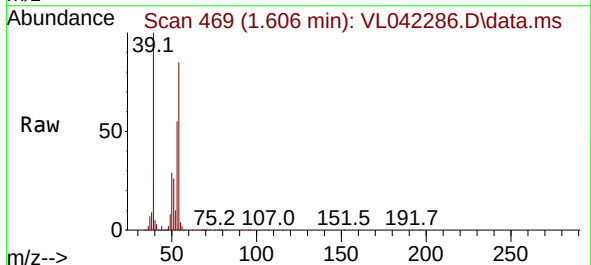
Tgt Ion: 43 Resp: 196063
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8

Manual Integrations
APPROVED

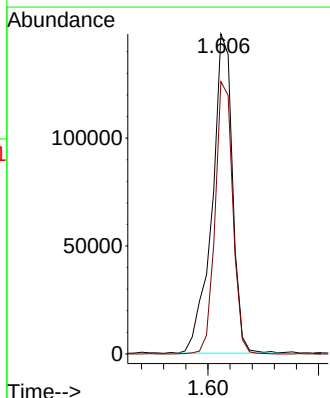
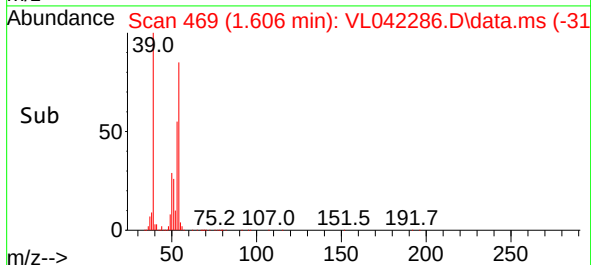
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

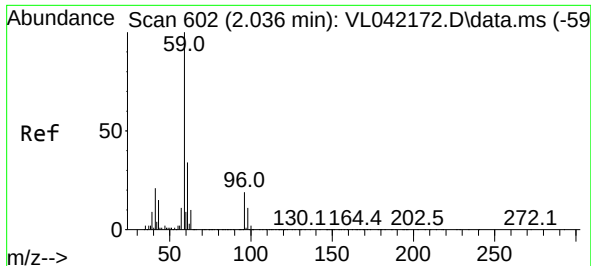


#16
1,3-Butadiene
Concen: 8.931 ppbv
RT: 1.606 min Scan# 469
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



Tgt Ion: 39 Resp: 94932
Ion Ratio Lower Upper
39 100
54 73.9 60.7 91.1





#17

tert-Butyl alcohol

Concen: 8.122 ppbv

RT: 2.040 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 59 Resp: 22018

Ion Ratio Lower Upper

59 100

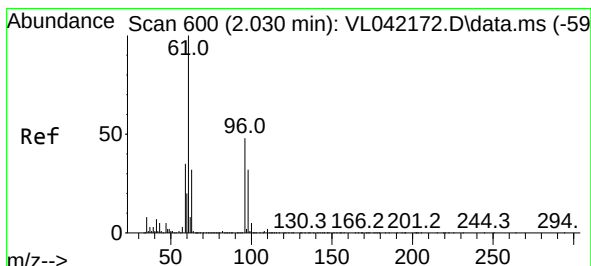
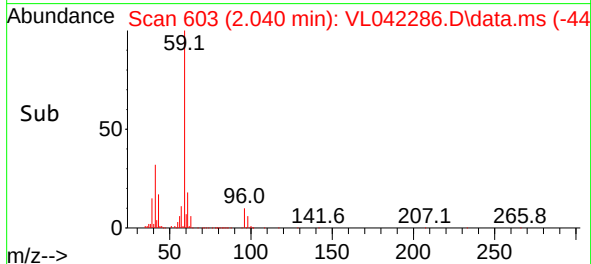
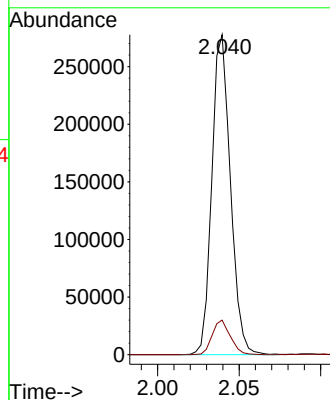
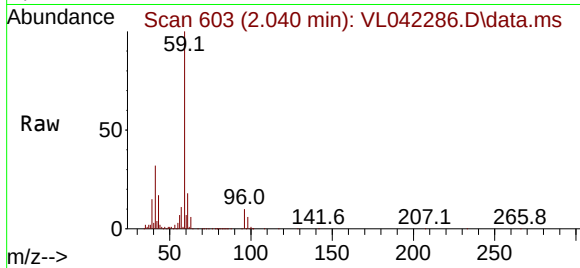
57 10.5 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#18

1,1-Dichloroethene

Concen: 9.042 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

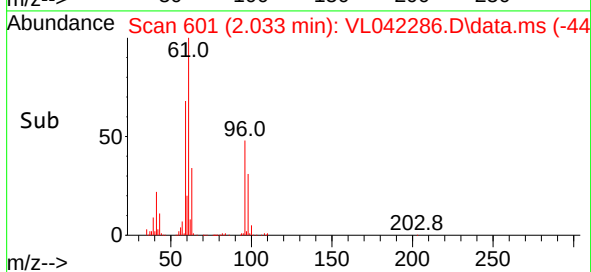
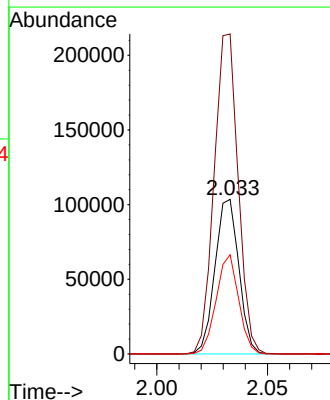
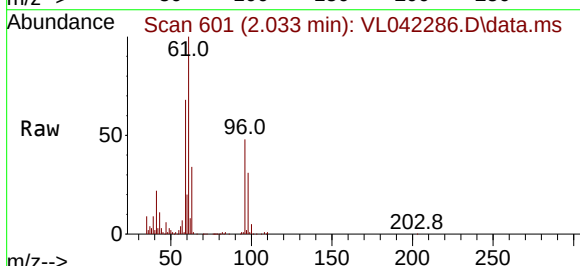
Tgt Ion: 96 Resp: 77686

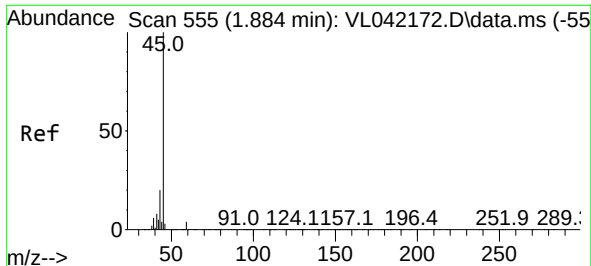
Ion Ratio Lower Upper

96 100

61 207.1 167.6 251.4

98 64.2 53.5 80.3





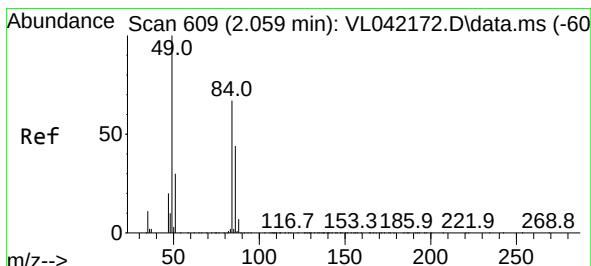
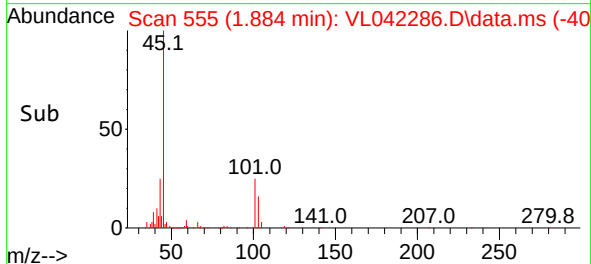
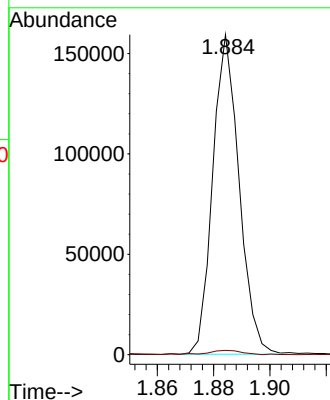
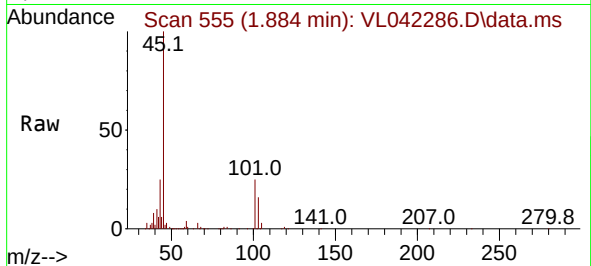
#19
Isopropyl Alcohol
Concen: 8.415 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 103348
Ion Ratio Lower Upper
45 100
58 50.7 36.9 55.3

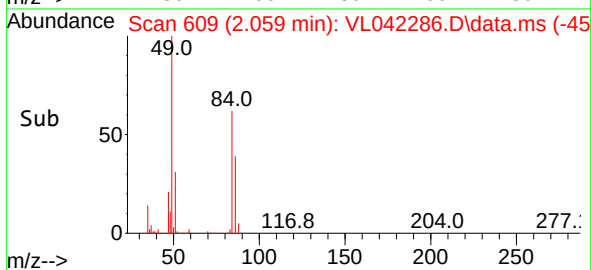
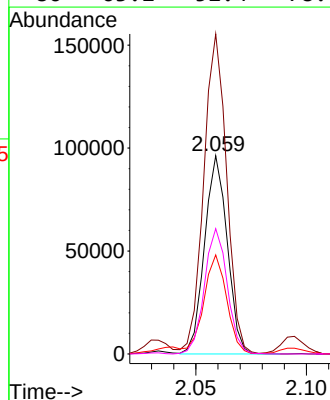
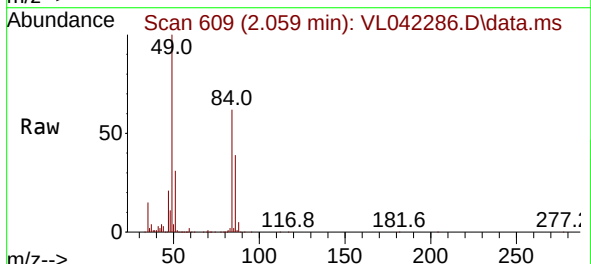
Manual Integrations
APPROVED

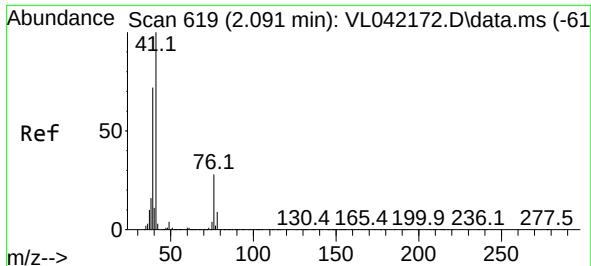
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#20
Methylene Chloride
Concen: 8.461 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 84 Resp: 68588
Ion Ratio Lower Upper
84 100
49 159.3 120.2 180.4
51 48.1 37.4 56.0
86 63.2 52.4 78.6





#21
 Allyl Chloride
 Concen: 9.118 ppbv
 RT: 2.095 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

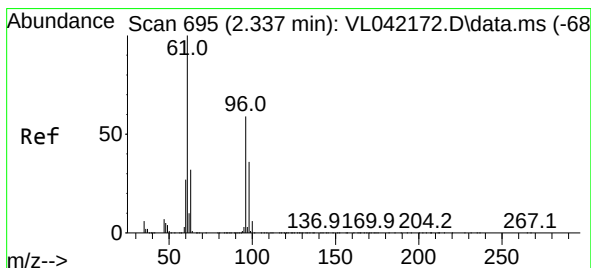
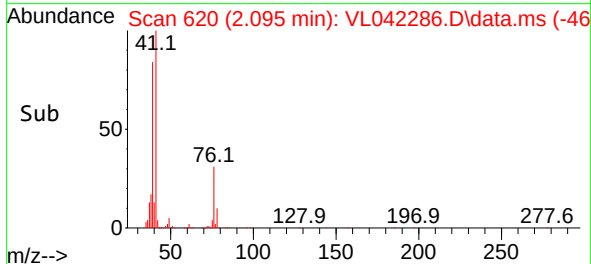
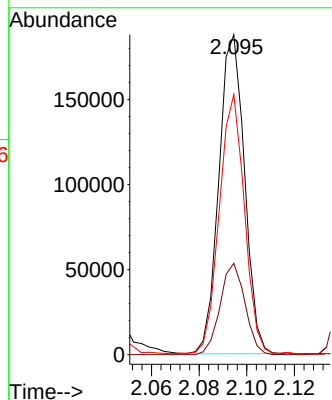
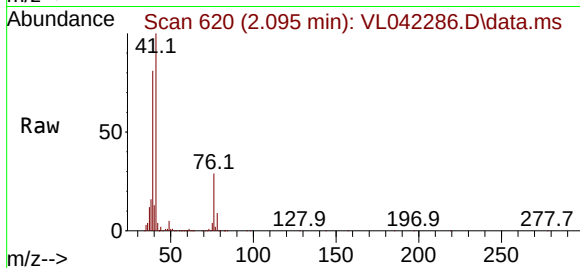
VSTDCCC010

Tgt Ion: 41 Resp: 139968
 Ion Ratio Lower Upper
 41 100
 76 27.7 24.1 36.1
 39 79.7 61.1 91.7

Manual Integrations

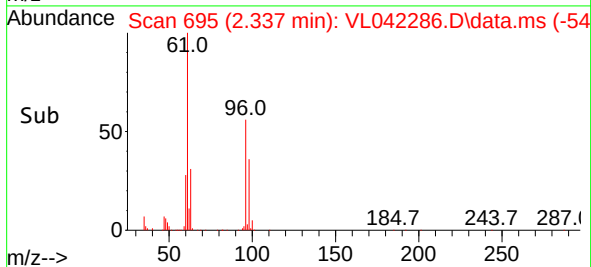
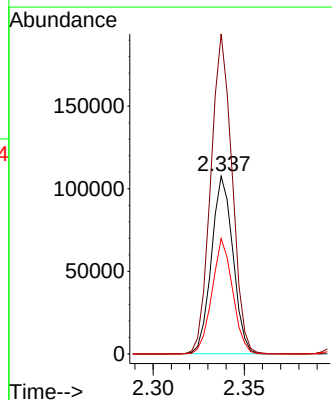
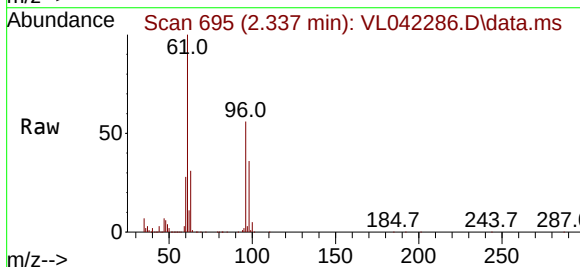
APPROVED

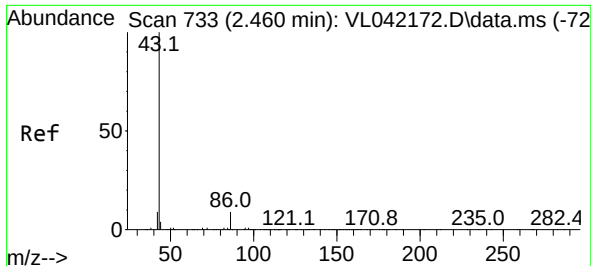
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.896 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

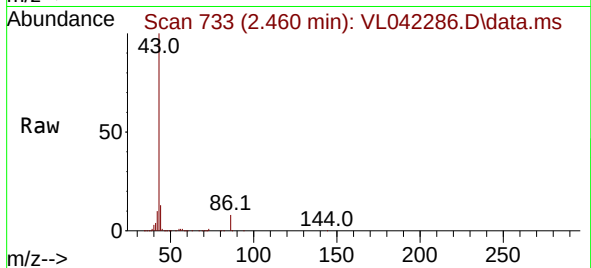
Tgt Ion: 96 Resp: 88334
 Ion Ratio Lower Upper
 96 100
 61 180.1 136.6 204.8
 98 64.9 49.4 74.2





#23
 Vinyl Acetate
 Concen: 7.766 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

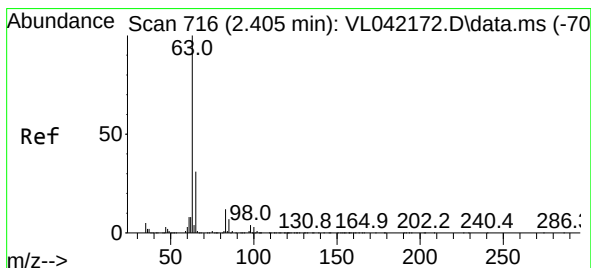
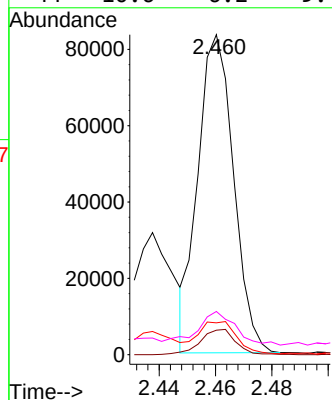
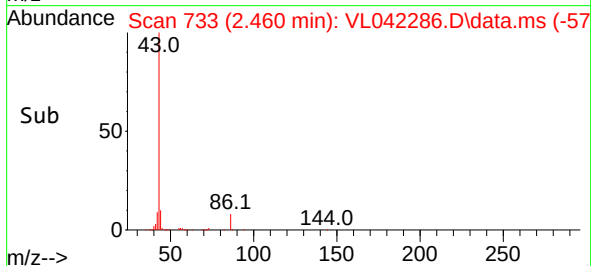
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010



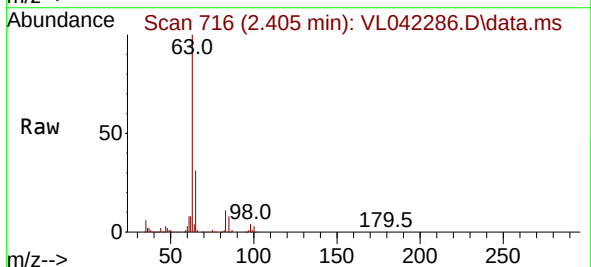
Tgt Ion: 43 Resp: 73162
 Ion Ratio Lower Upper
 43 100
 86 7.6 5.5 8.3
 42 9.7 8.6 13.0
 44 10.6 6.2 9.4#

Manual Integrations
 APPROVED

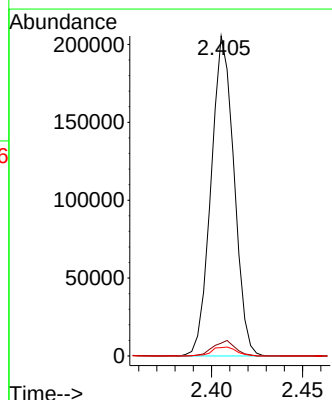
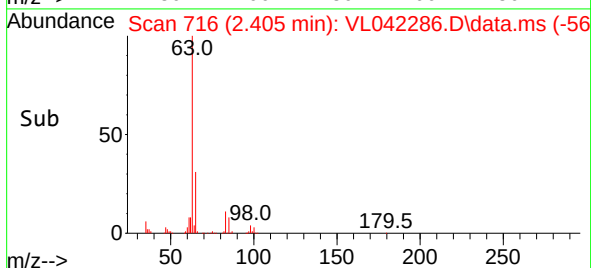
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

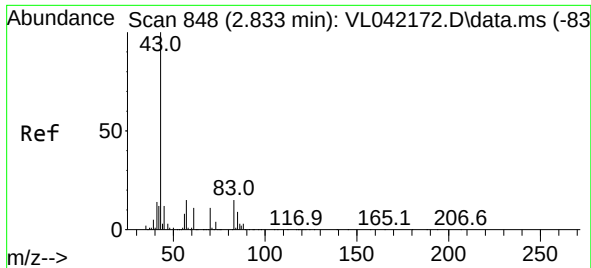


#24
 1,1-Dichloroethane
 Concen: 9.801 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20



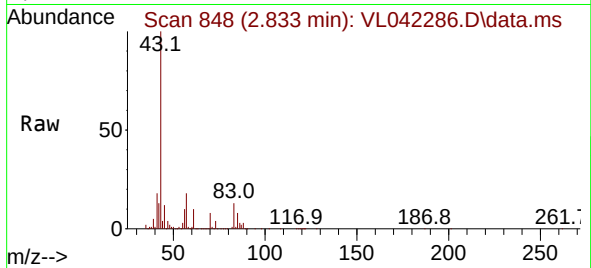
Tgt Ion: 63 Resp: 180404
 Ion Ratio Lower Upper
 63 100
 98 4.0 2.3 6.8
 100 2.6 1.6 4.7





#25
Ethyl Acetate
Concen: 10.039 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

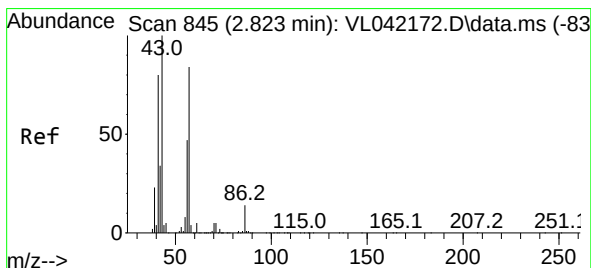
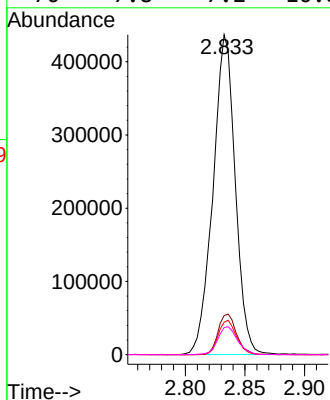
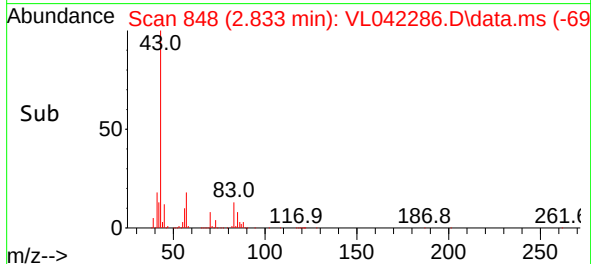
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 567125
Ion Ratio Lower Upper
43 100
45 10.5 8.2 12.2
61 8.9 7.3 10.9
70 7.8 7.2 10.8

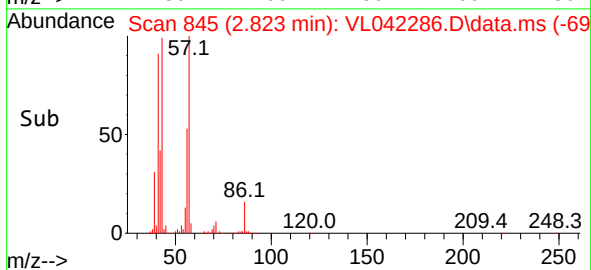
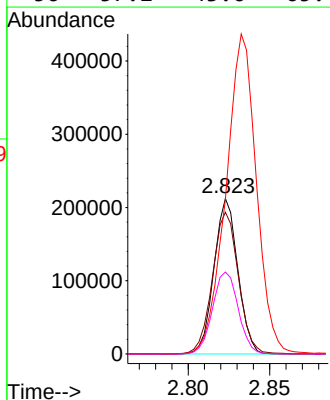
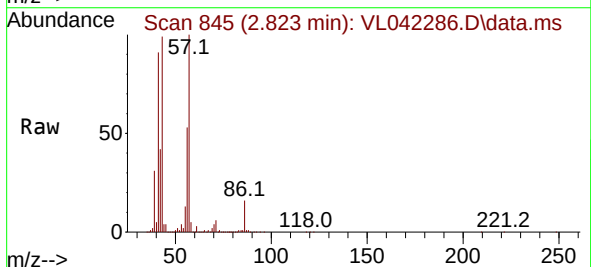
Manual Integrations
APPROVED

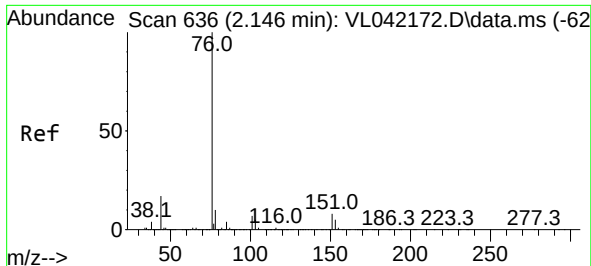
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#26
Hexane
Concen: 9.848 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

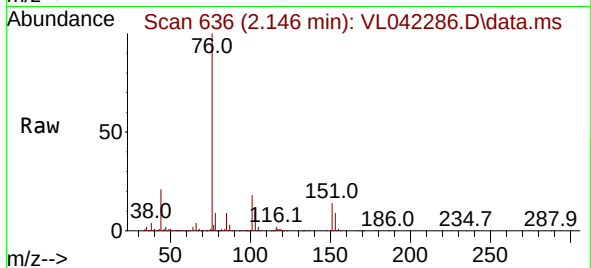
Tgt Ion: 57 Resp: 214891
Ion Ratio Lower Upper
57 100
41 99.1 76.6 114.8
43 264.9 207.8 311.8
56 57.2 43.6 65.4





#27
Carbon Disulfide
Concen: 9.253 ppbv
RT: 2.146 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

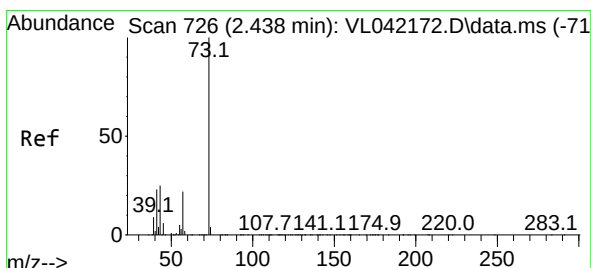
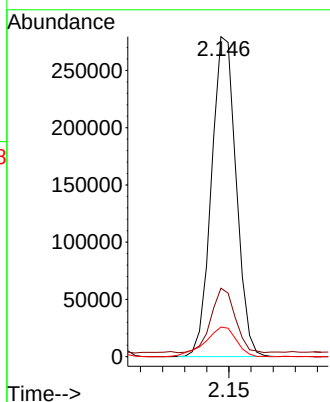
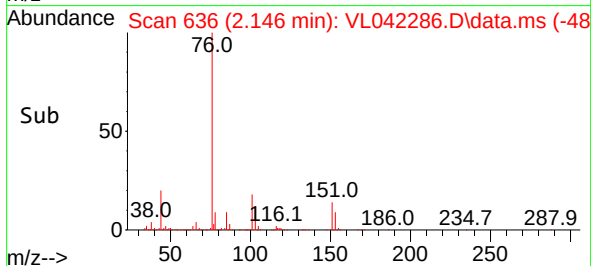
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 76 Resp: 216499
Ion Ratio Lower Upper
76 100
44 20.6 14.7 22.1
78 11.8 9.3 13.9

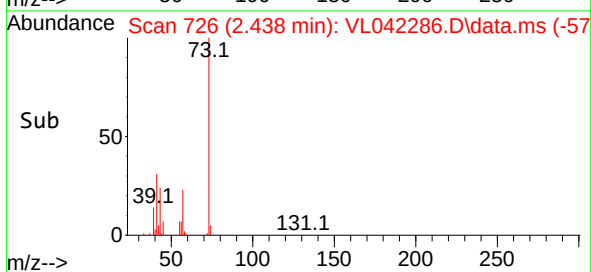
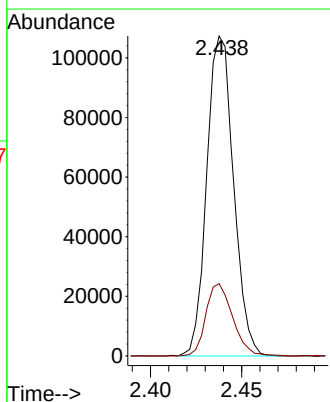
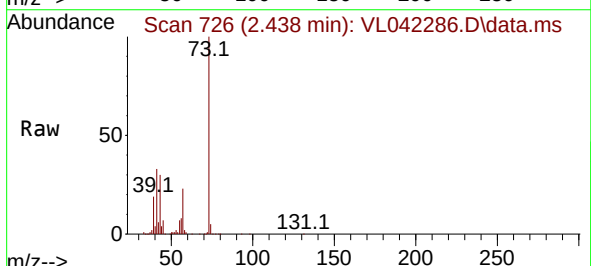
Manual Integrations
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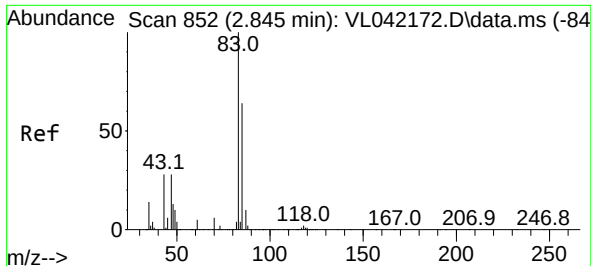
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#28
Methyl tert-Butyl Ether
Concen: 8.077 ppbv
RT: 2.438 min Scan# 726
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 73 Resp: 109726
Ion Ratio Lower Upper
73 100
57 22.6 20.5 30.7





#29

Chloroform

Concen: 10.675 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 340889

Ion Ratio Lower Upper

83 100

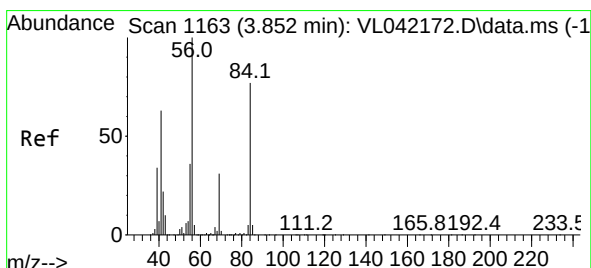
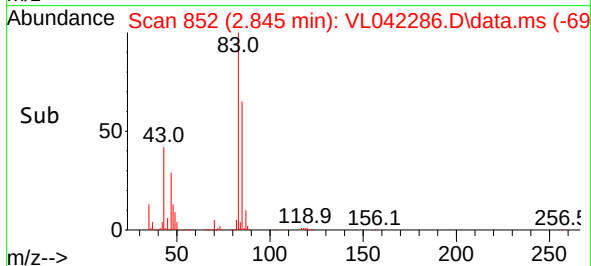
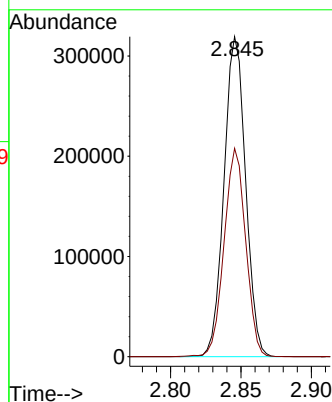
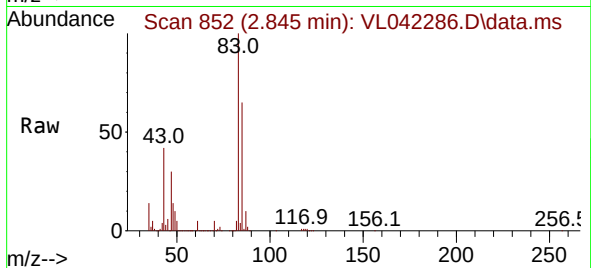
85 65.0 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#30

Cyclohexane

Concen: 8.991 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

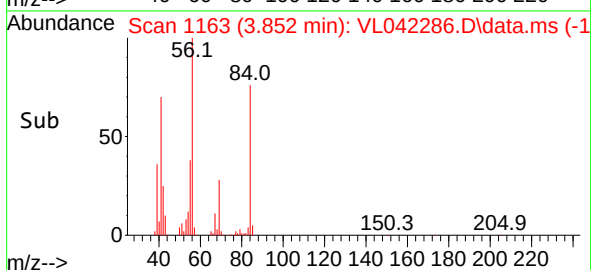
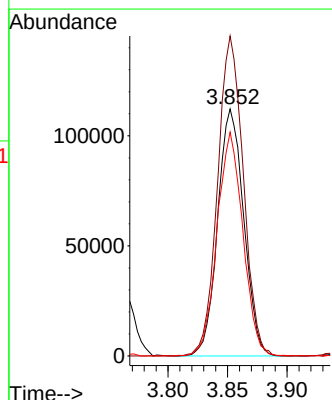
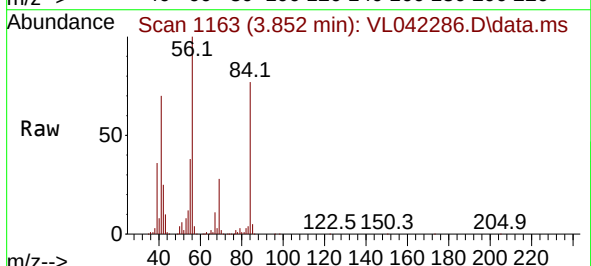
Tgt Ion: 84 Resp: 170359

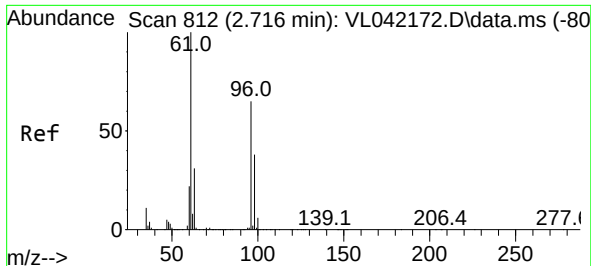
Ion Ratio Lower Upper

84 100

56 127.8 102.8 154.2

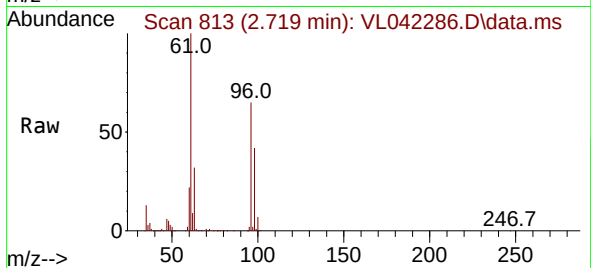
41 90.1 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.110 ppbv
 RT: 2.719 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

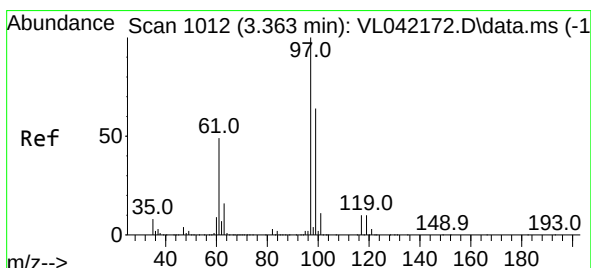
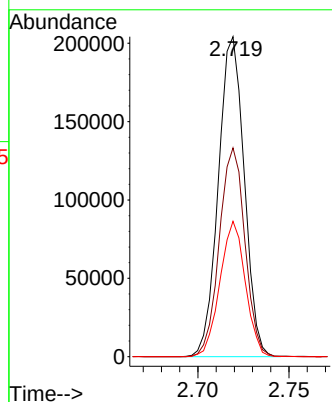
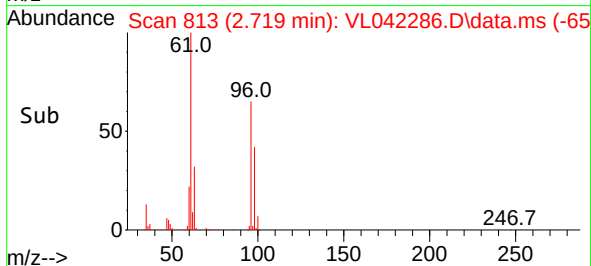
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 61 Resp: 201790
 Ion Ratio Lower Upper
 61 100
 96 65.3 51.8 77.8
 98 42.3 30.6 46.0

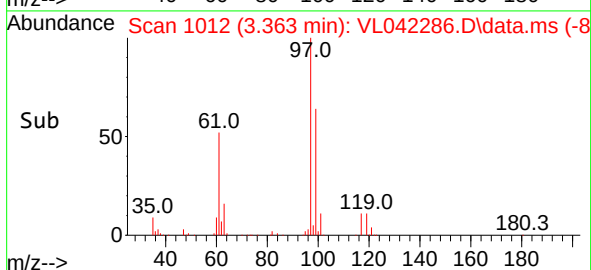
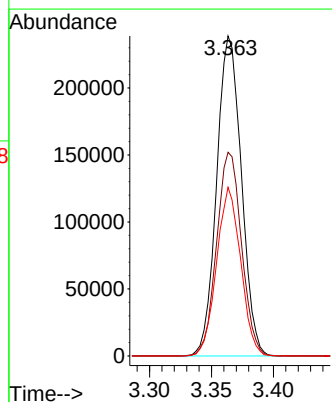
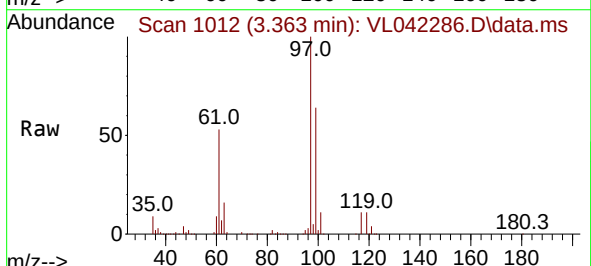
Manual Integrations
 APPROVED

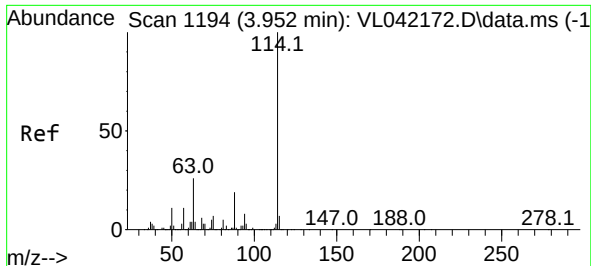
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#32
 1,1,1-Trichloroethane
 Concen: 9.088 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

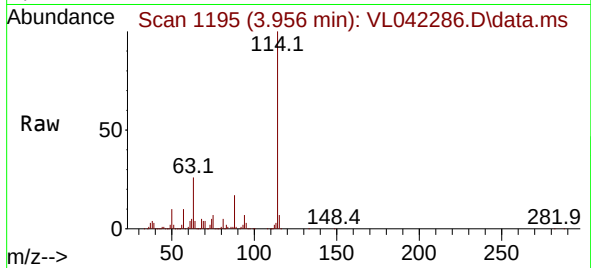
Tgt Ion: 97 Resp: 332252
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.5 77.3
 61 51.3 38.7 58.1





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

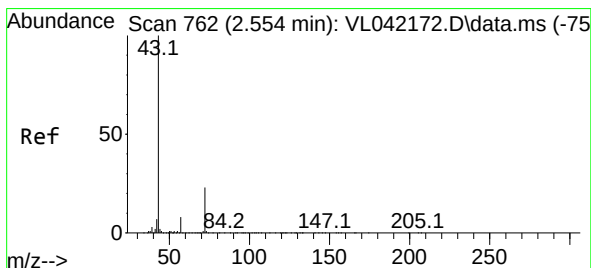
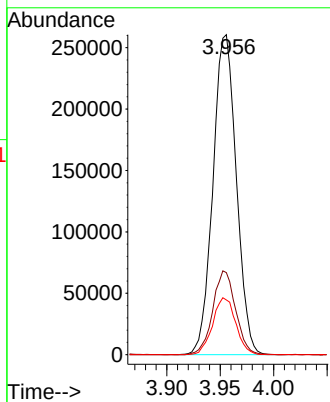
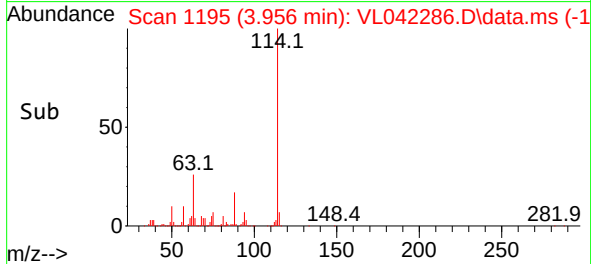
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:114 Resp: 397170
Ion Ratio Lower Upper
114 100
63 25.6 20.7 31.1
88 17.6 15.0 22.4

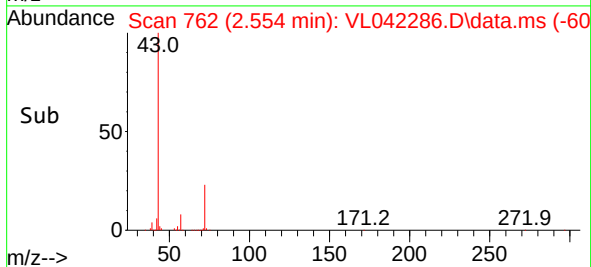
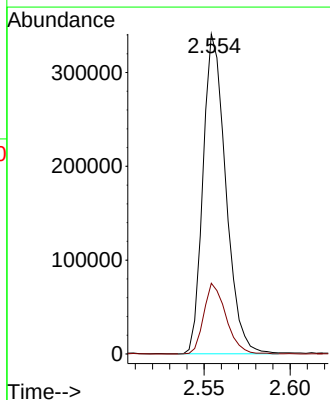
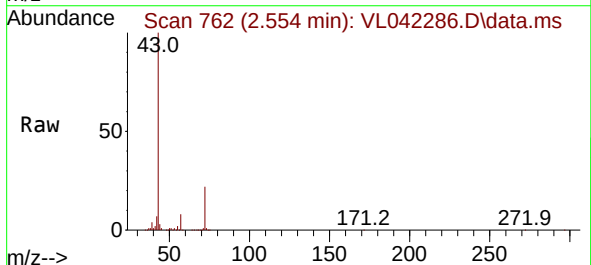
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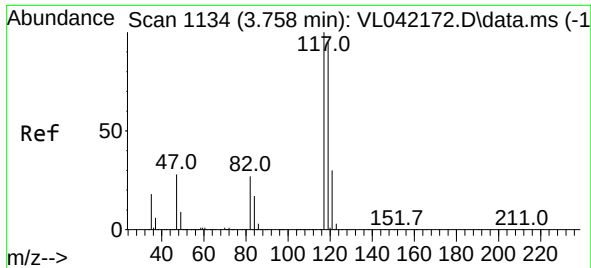
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#34
2-Butanone
Concen: 10.886 ppbv
RT: 2.554 min Scan# 762
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

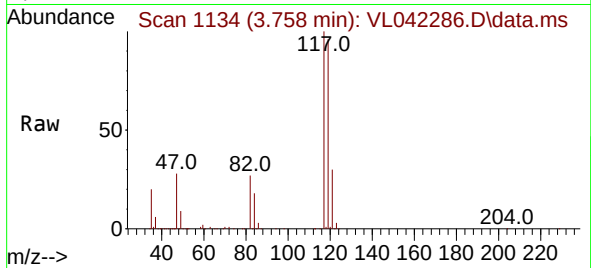
Tgt Ion: 43 Resp: 313515
Ion Ratio Lower Upper
43 100
72 21.7 18.2 27.2





#35
Carbon Tetrachloride
Concen: 11.256 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

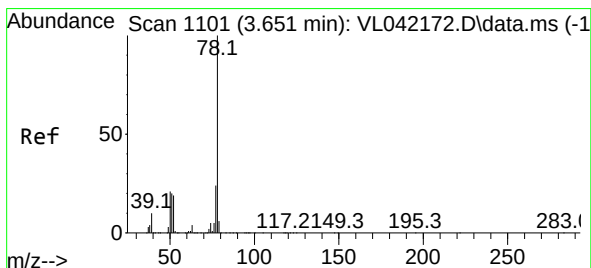
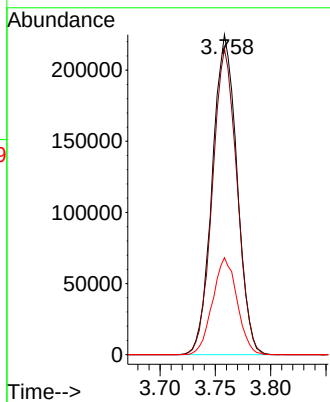
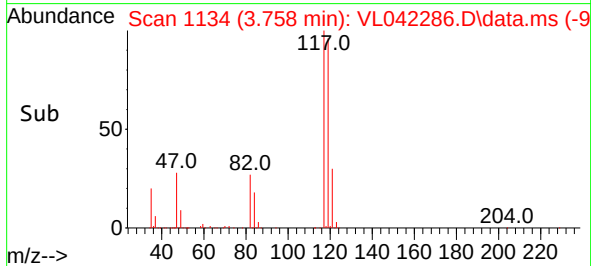
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



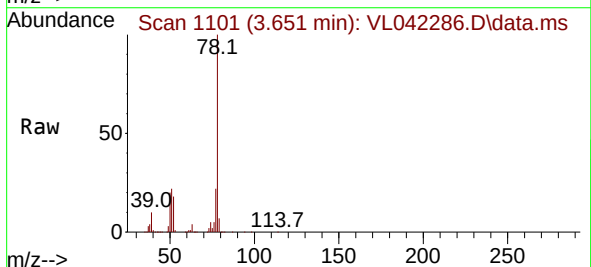
Tgt Ion: 117 Resp: 349240
Ion Ratio Lower Upper
117 100
119 95.6 76.2 114.2
121 30.3 24.2 36.4

Manual Integrations
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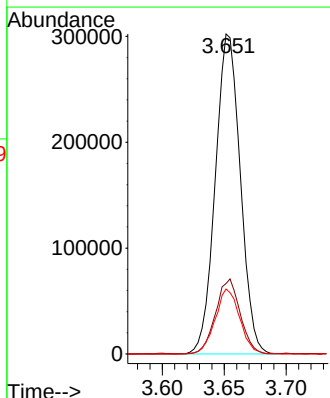
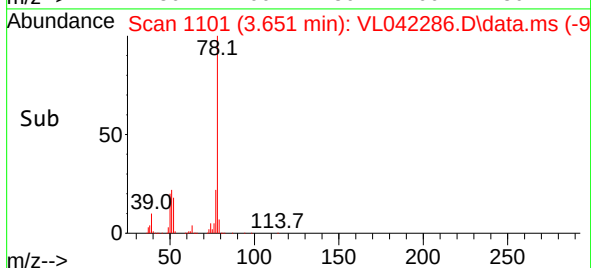
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

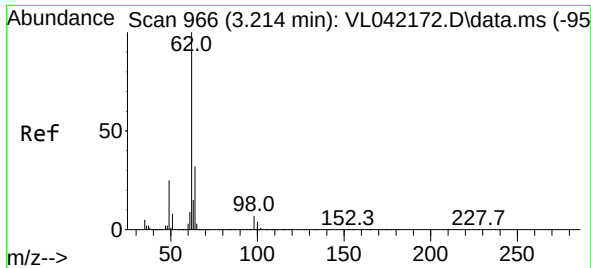


#36
Benzene
Concen: 10.802 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



Tgt Ion: 78 Resp: 425324
Ion Ratio Lower Upper
78 100
77 21.9 19.1 28.7
50 20.3 16.6 24.8





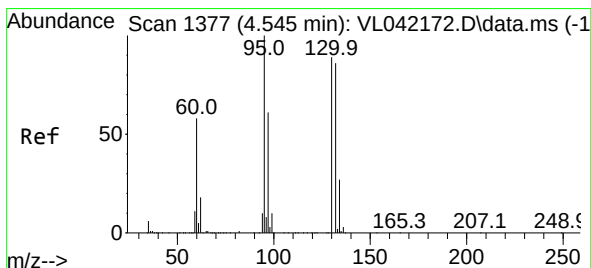
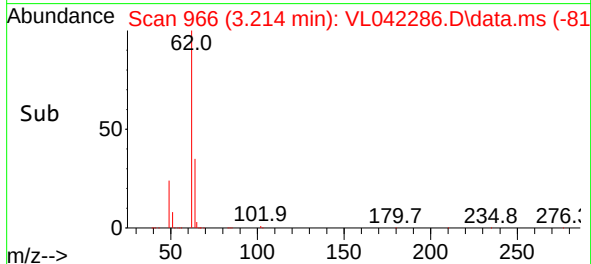
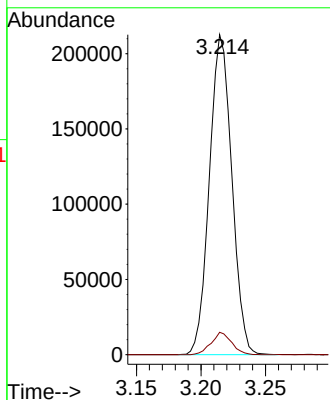
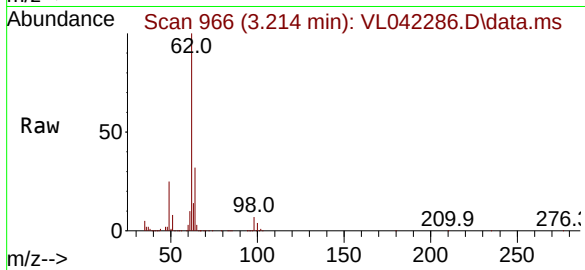
#37
1,2-Dichloroethane
Concen: 11.391 ppbv
RT: 3.214 min Scan# 966
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 25679
Ion Ratio Lower Upper
62 100
98 6.3 5.4 8.2

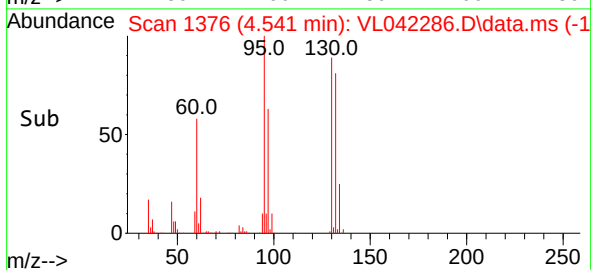
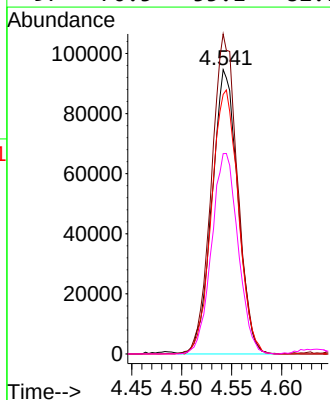
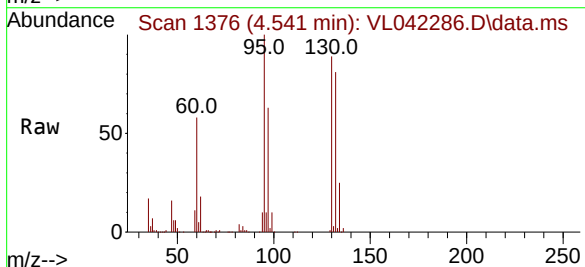
Manual Integrations
APPROVED

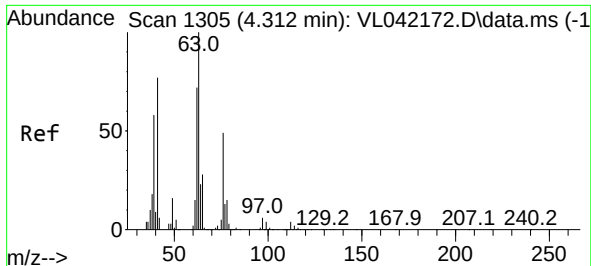
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#38
Trichloroethene
Concen: 10.370 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:130 Resp: 170362
Ion Ratio Lower Upper
130 100
95 112.5 89.8 134.8
132 91.3 77.4 116.2
97 70.5 55.1 82.7





#39

1,2-Dichloropropane

Concen: 10.710 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

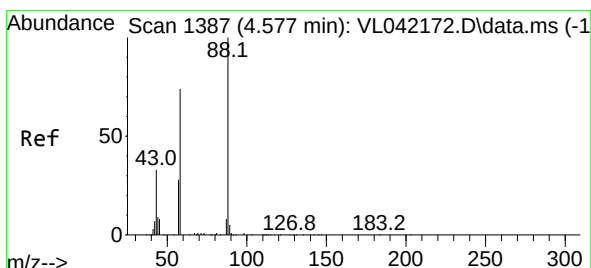
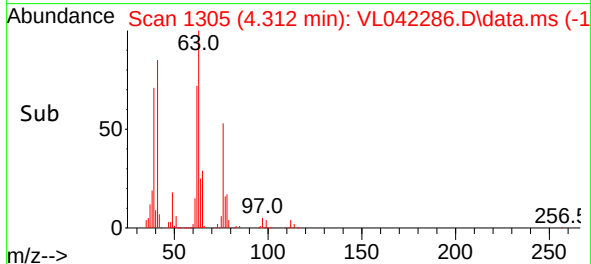
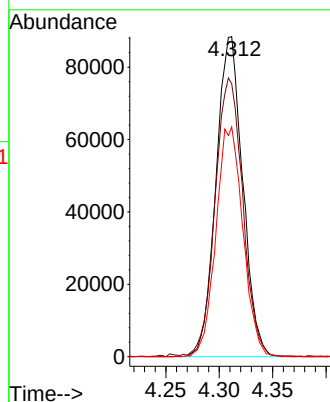
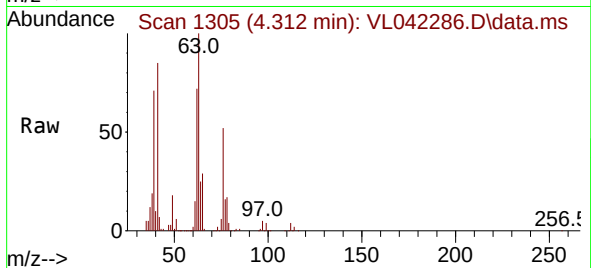
Tgt Ion: 63 Resp: 15358

Ion	Ratio	Lower	Upper
63	100		
41	85.0	61.7	92.5
62	71.8	57.6	86.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#40

1,4-Dioxane

Concen: 9.539 ppbv

RT: 4.577 min Scan# 1387

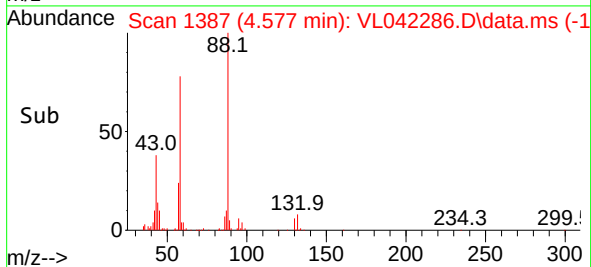
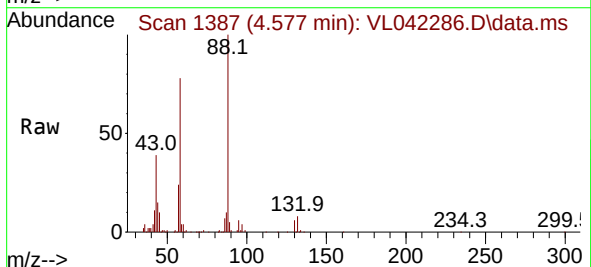
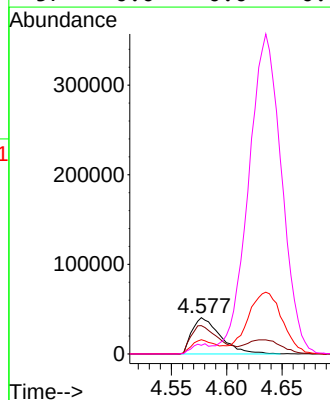
Delta R.T. 0.000 min

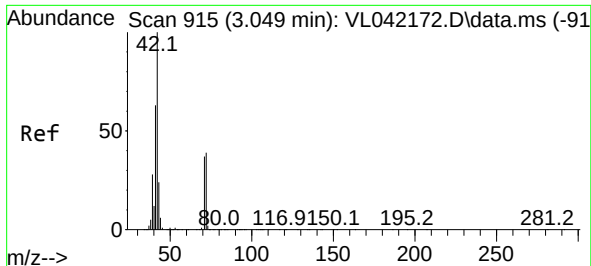
Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Tgt Ion: 88 Resp: 72604

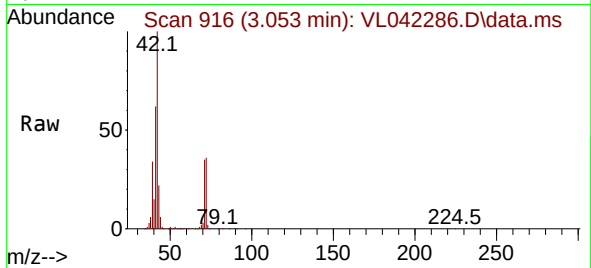
Ion	Ratio	Lower	Upper
88	100		
58	75.1	62.7	94.1
43	33.8	23.0	34.4
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 10.556 ppbv
RT: 3.053 min Scan# 915
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

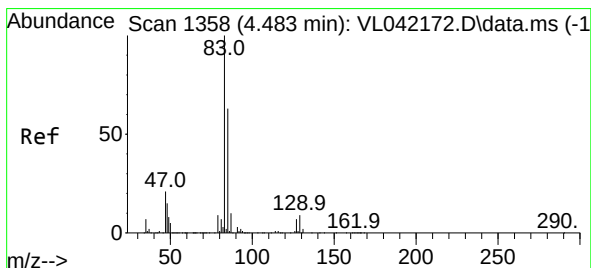
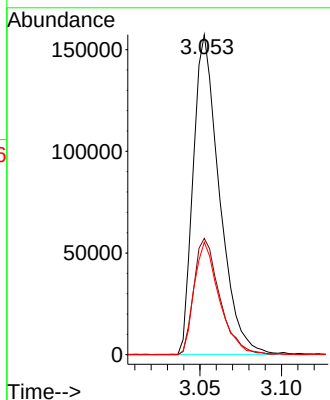
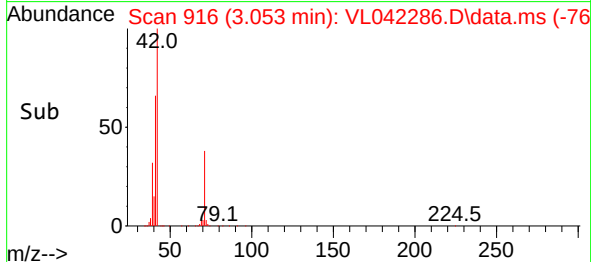
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 42 Resp: 175060
Ion Ratio Lower Upper
42 100
72 36.2 31.4 47.0
71 34.2 30.2 45.4

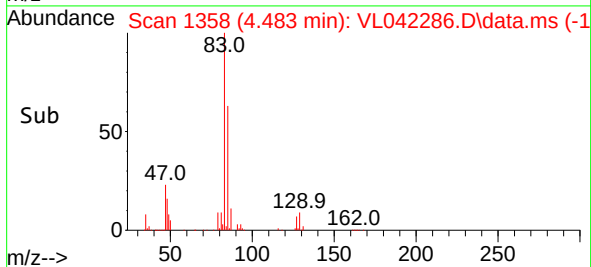
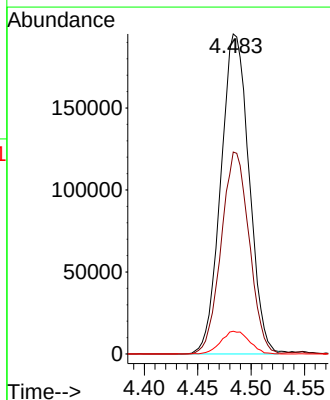
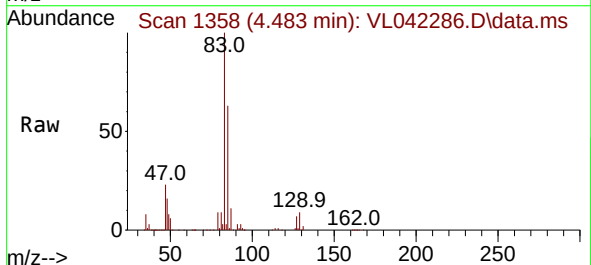
Manual Integrations
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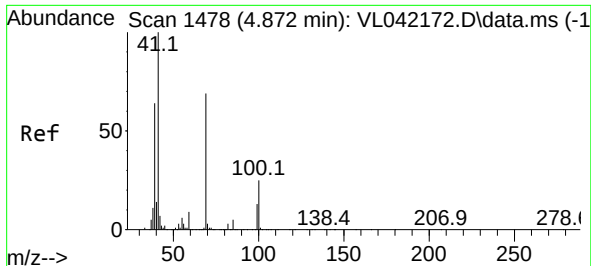
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#42
Bromodichloromethane
Concen: 11.551 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

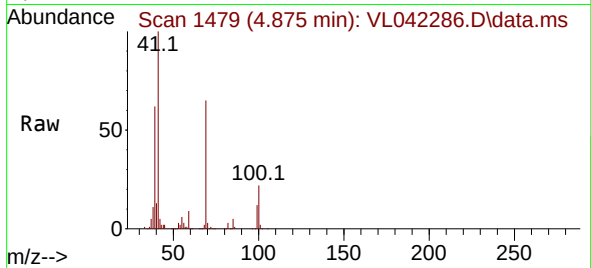
Tgt Ion: 83 Resp: 358962
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7
127 7.1 5.9 8.9





#43
Methyl Methacrylate
Concen: 9.297 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

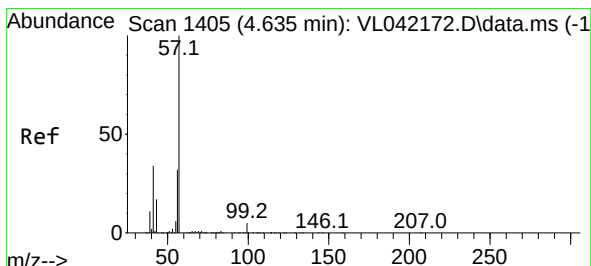
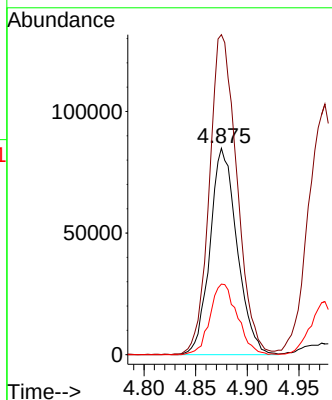
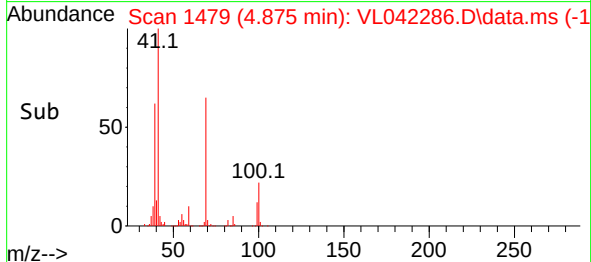
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 69 Resp: 154975
Ion Ratio Lower Upper
69 100
41 158.4 123.8 185.6
100 34.5 28.4 42.6

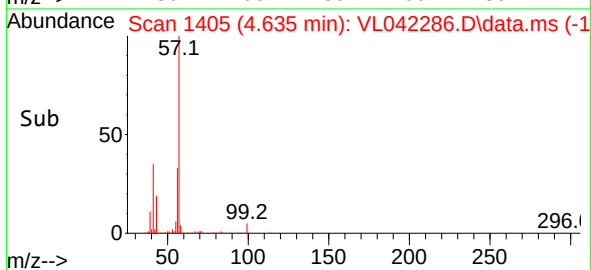
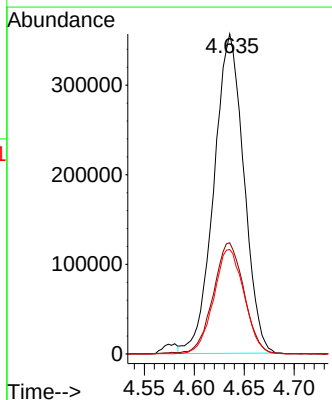
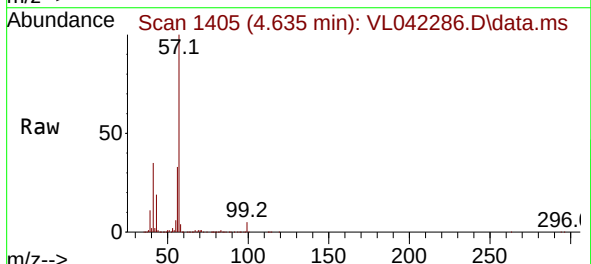
Manual Integrations
APPROVED

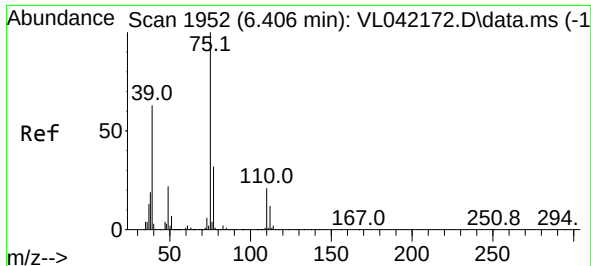
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#44
2,2,4-Trimethylpentane
Concen: 11.157 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

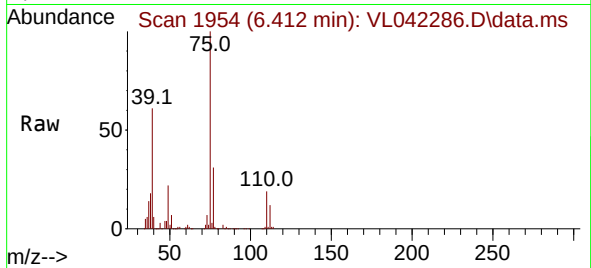
Tgt Ion: 57 Resp: 742388
Ion Ratio Lower Upper
57 100
41 36.2 26.8 40.2
56 33.5 25.6 38.4





#45
 t-1,3-Dichloropropene
 Concen: 8.231 ppbv
 RT: 6.412 min Scan# 1952
 Delta R.T. 0.006 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

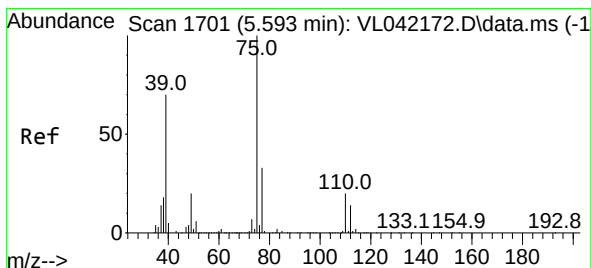
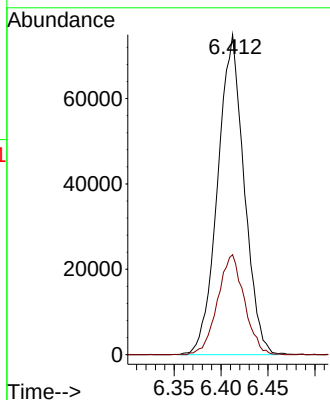
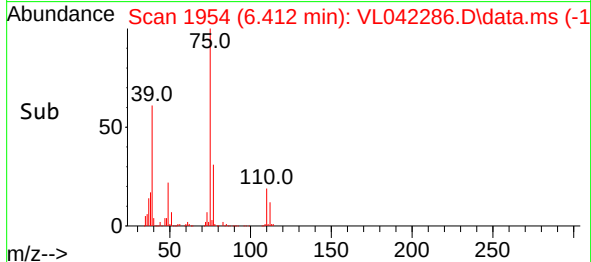
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 75 Resp: 147204
 Ion Ratio Lower Upper
 75 100
 77 31.2 26.0 39.0

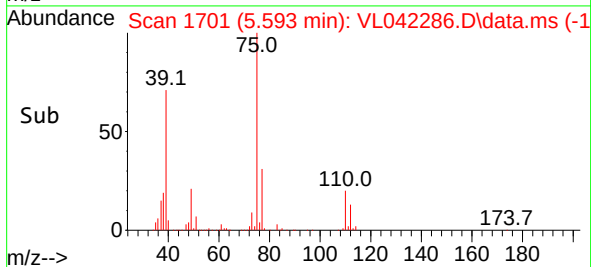
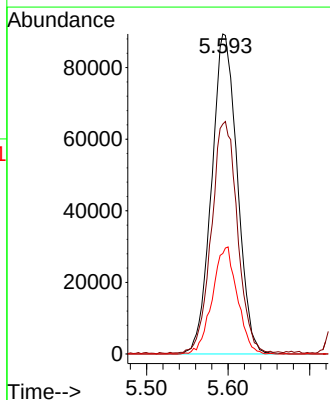
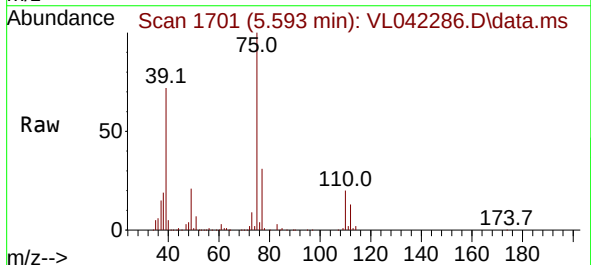
Manual Integrations
 APPROVED

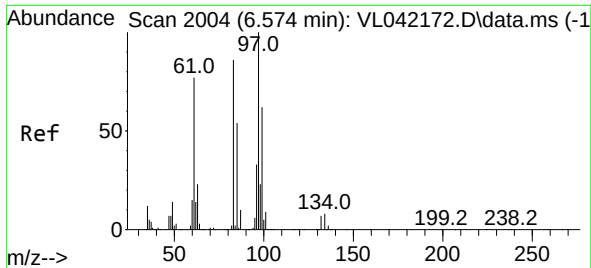
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#46
 cis-1,3-Dichloropropene
 Concen: 8.932 ppbv
 RT: 5.593 min Scan# 1701
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

Tgt Ion: 75 Resp: 195802
 Ion Ratio Lower Upper
 75 100
 39 71.5 55.8 83.6
 77 31.4 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 11.369 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

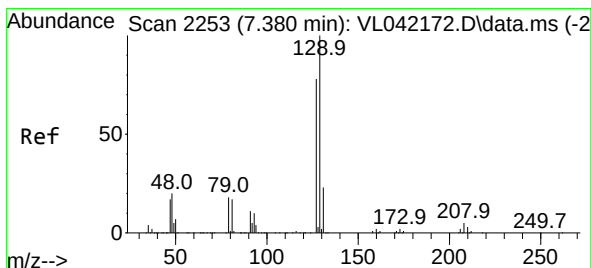
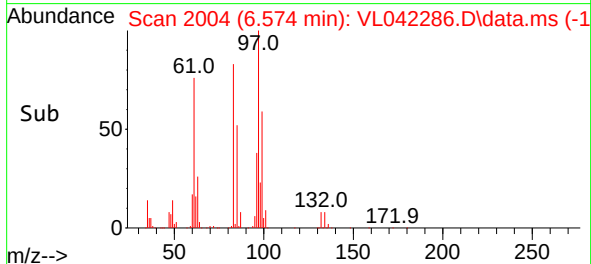
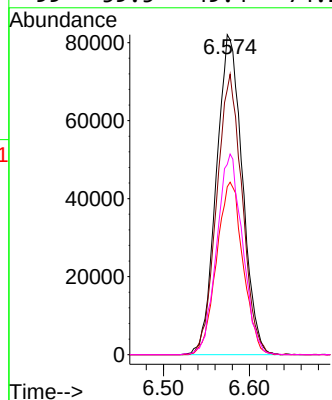
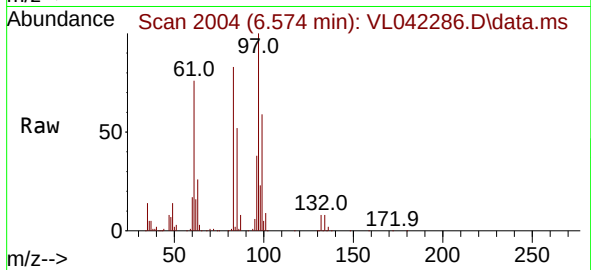
VSTDCCC010

Tgt Ion: 97 Resp: 17234
Ion Ratio Lower Upper
97 100
83 82.8 69.2 103.8
85 52.5 43.1 64.7
99 59.5 49.4 74.2

Manual Integrations

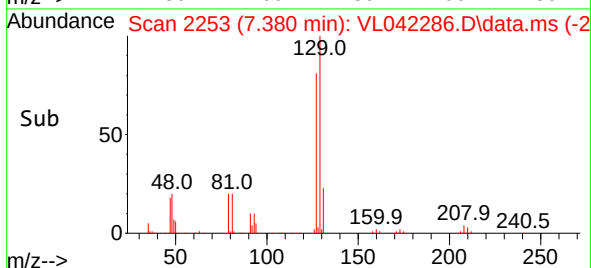
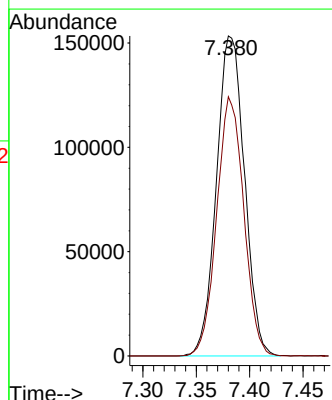
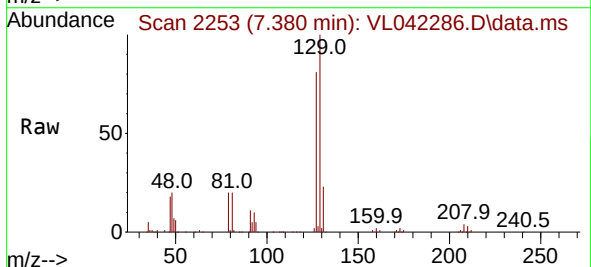
APPROVED

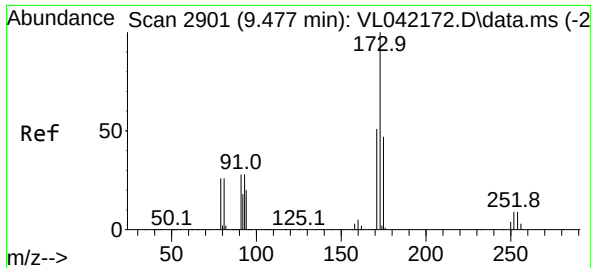
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#48
Dibromochloromethane
Concen: 10.907 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:129 Resp: 280199
Ion Ratio Lower Upper
129 100
127 78.2 39.1 117.2





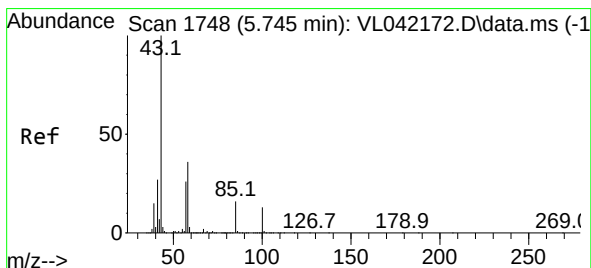
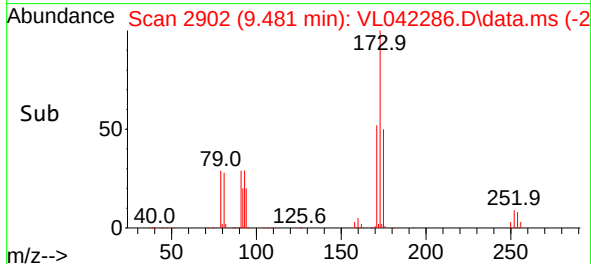
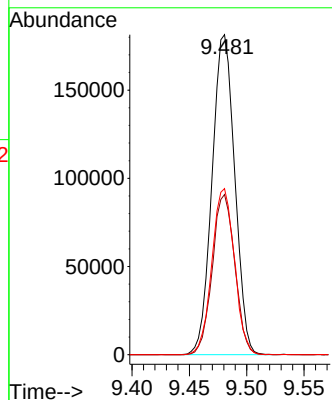
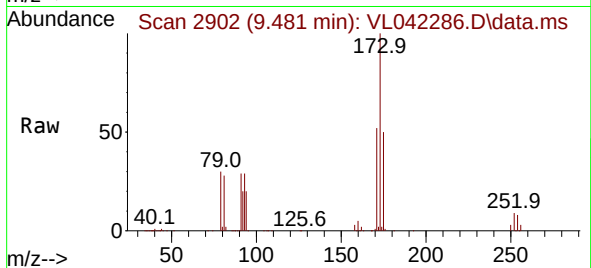
#49
Bromoform
Concen: 10.849 ppbv
RT: 9.481 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:173 Resp: 250227
Ion Ratio Lower Upper
173 100
175 49.5 38.6 57.8
171 51.5 41.8 62.6

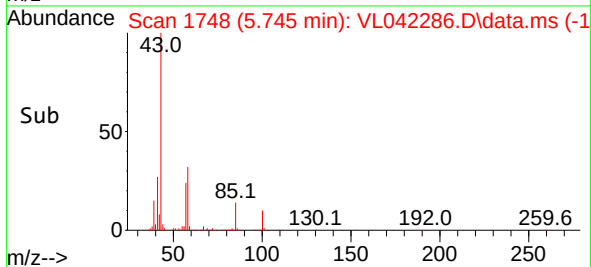
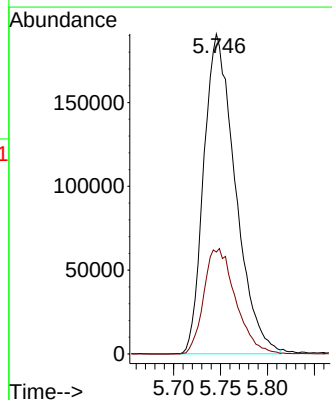
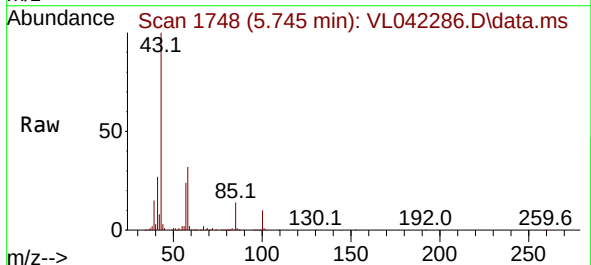
Manual Integrations
APPROVED

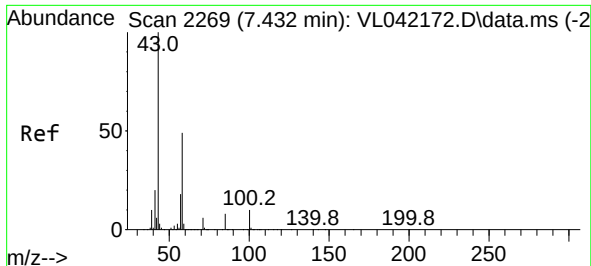
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#50
4-Methyl-2-Pentanone
Concen: 9.760 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

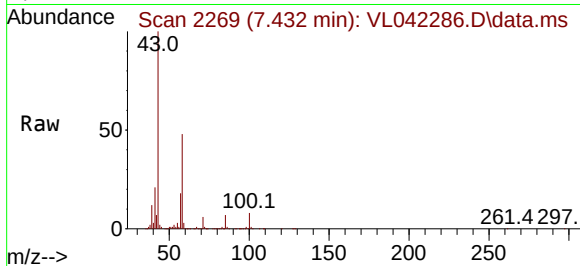
Tgt Ion: 43 Resp: 445454
Ion Ratio Lower Upper
43 100
58 33.4 29.0 43.6





#51
2-Hexanone
Concen: 9.437 ppbv
RT: 7.432 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

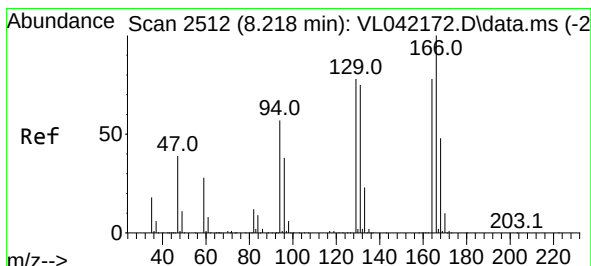
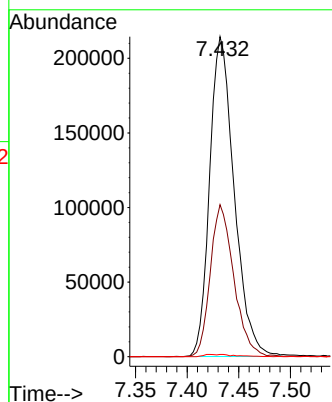
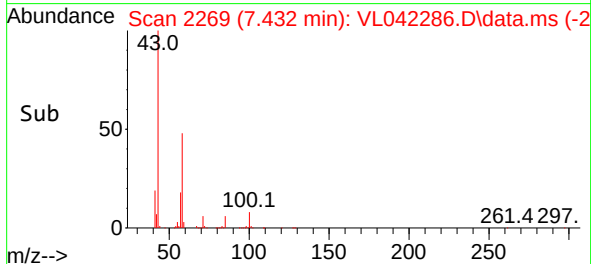
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



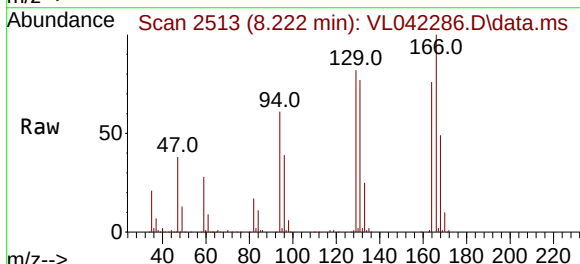
Tgt Ion: 43 Resp: 353700
Ion Ratio Lower Upper
43 100
58 45.8 39.7 59.5
98 0.9 0.1 0.1

Manual Integrations
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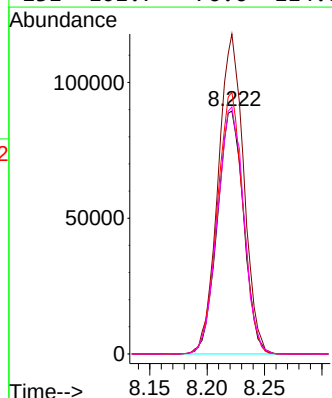
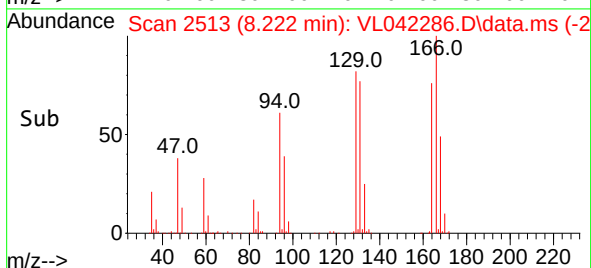
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

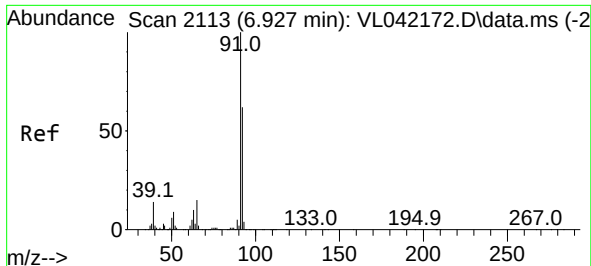


#52
Tetrachloroethene
Concen: 9.092 ppbv
RT: 8.222 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



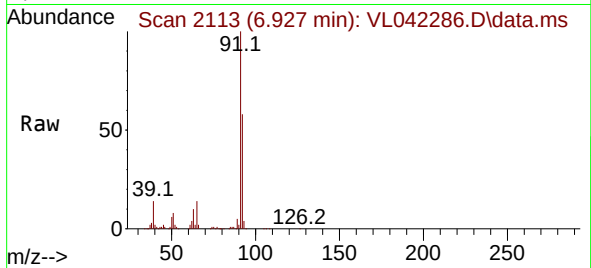
Tgt Ion:164 Resp: 141976
Ion Ratio Lower Upper
164 100
166 131.7 102.5 153.7
129 107.7 79.8 119.8
131 101.7 76.6 114.8





#53
Toluene
Concen: 9.961 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

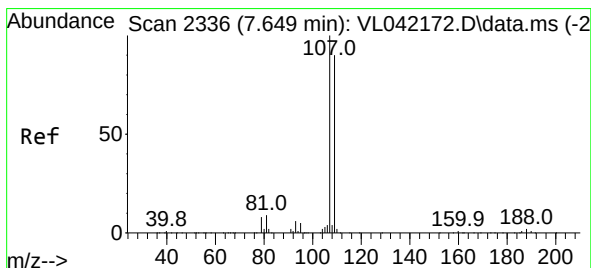
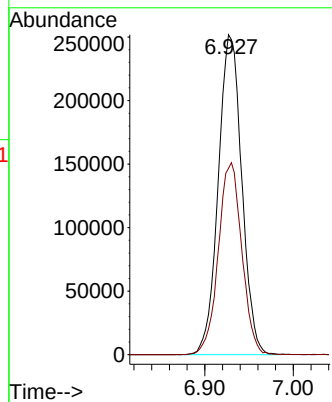
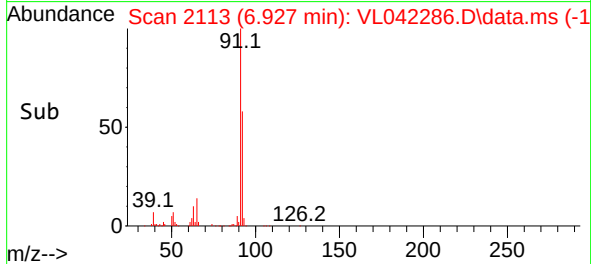
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



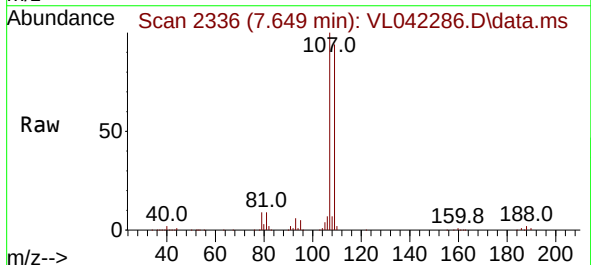
Tgt Ion: 91 Resp: 464948
Ion Ratio Lower Upper
91 100
92 60.0 48.4 72.6

Manual Integrations
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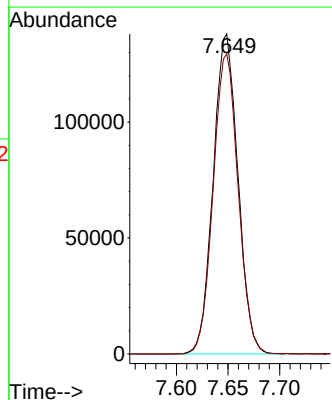
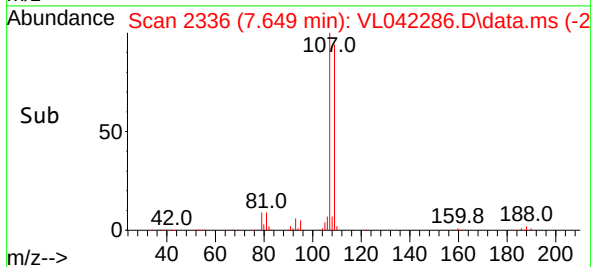
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

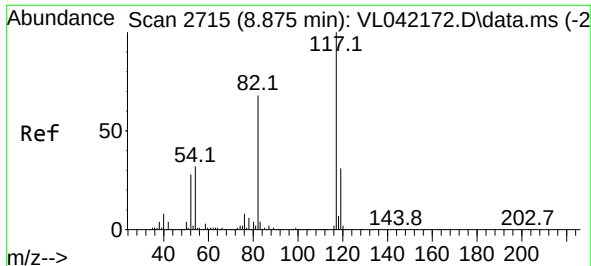


#54
1,2-Dibromoethane
Concen: 10.871 ppbv
RT: 7.649 min Scan# 2336
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



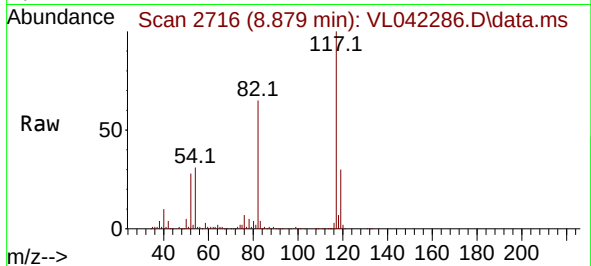
Tgt Ion:107 Resp: 229720
Ion Ratio Lower Upper
107 100
109 93.8 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

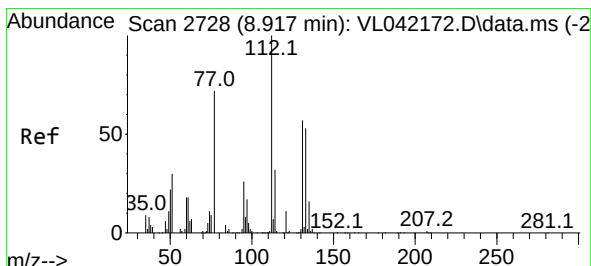
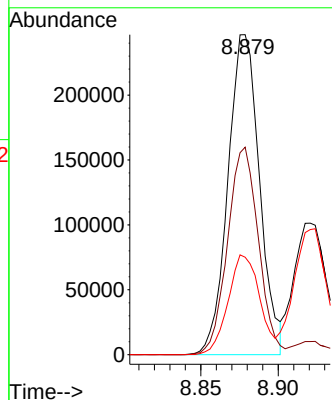
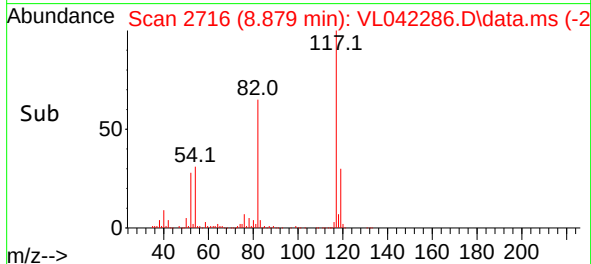
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:117 Resp: 350140
Ion Ratio Lower Upper
117 100
82 67.4 55.8 83.6
119 31.2 25.5 38.3

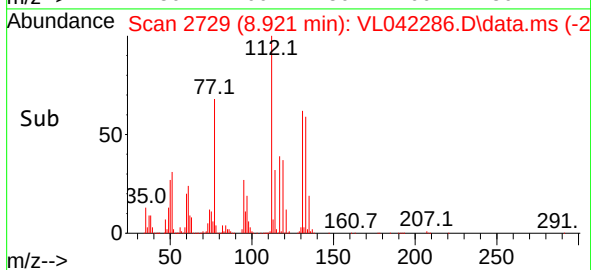
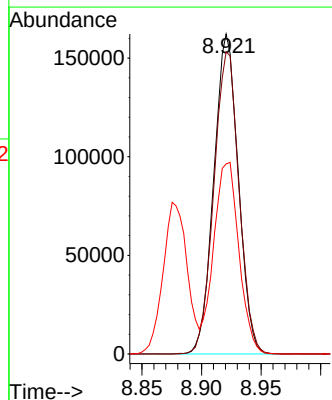
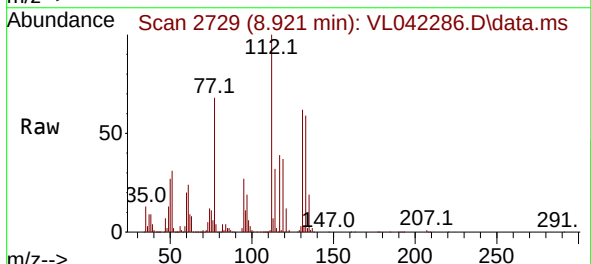
Manual Integrations
APPROVED

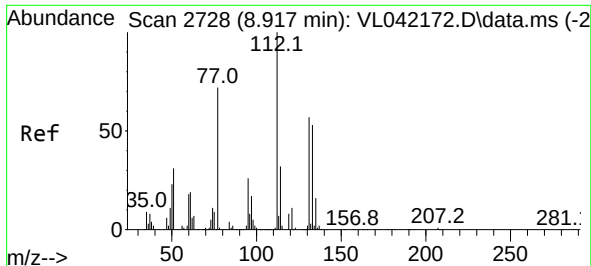
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 11.987 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

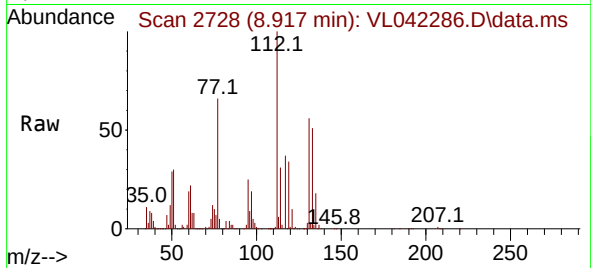
Tgt Ion:131 Resp: 231041
Ion Ratio Lower Upper
131 100
133 97.4 76.6 114.8
119 63.2 49.8 74.6





#57
Chlorobenzene
Concen: 12.021 ppbv
RT: 8.917 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

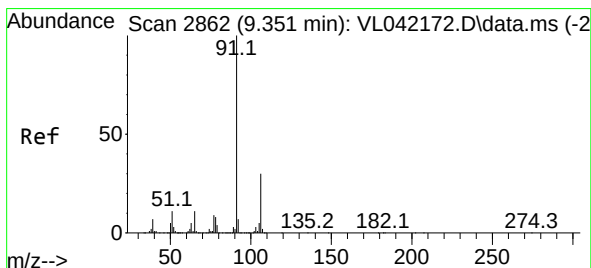
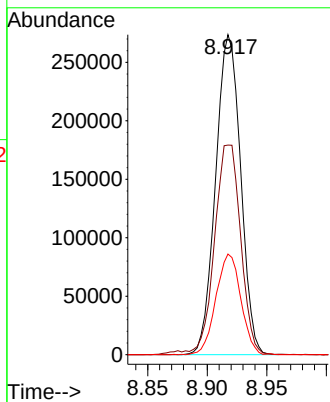
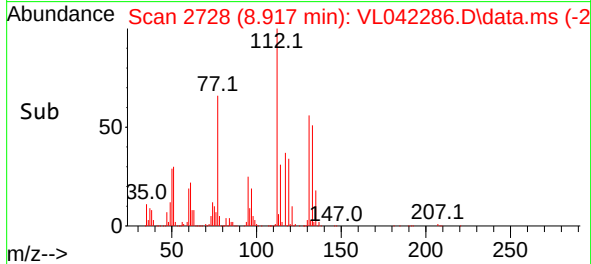
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:112 Resp: 399227
Ion Ratio Lower Upper
112 100
77 65.3 58.2 87.2
114 31.4 29.1 35.5

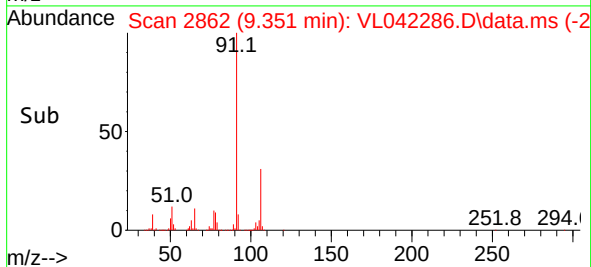
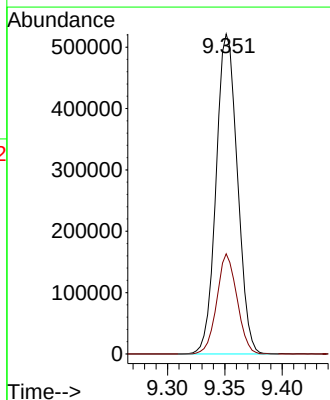
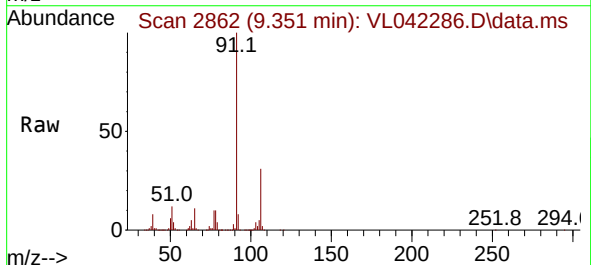
Manual Integrations
APPROVED

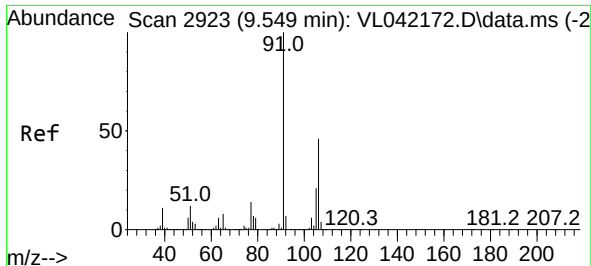
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#58
Ethyl Benzene
Concen: 10.834 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 673801
Ion Ratio Lower Upper
91 100
106 31.3 24.2 36.2





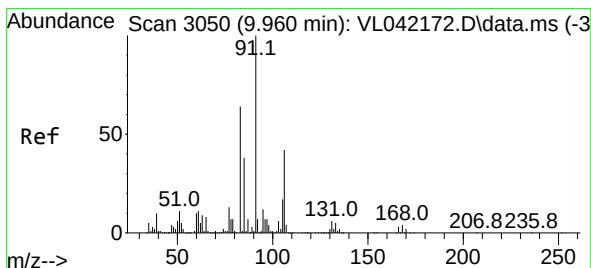
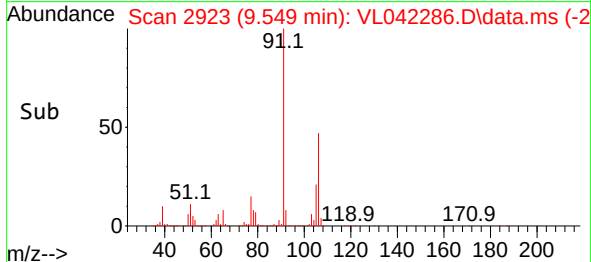
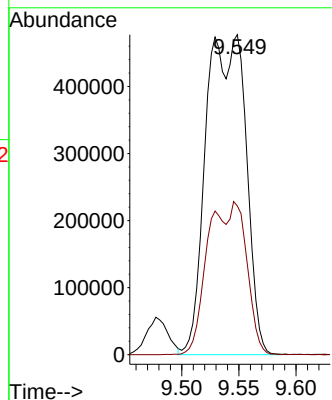
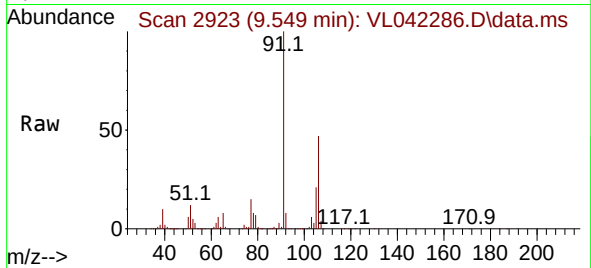
#59
m/p-Xylene
Concen: 23.379 ppbv m
RT: 9.549 min Scan# 2923
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 116106
Ion Ratio Lower Upper
91 100
106 46.5 36.4 54.6

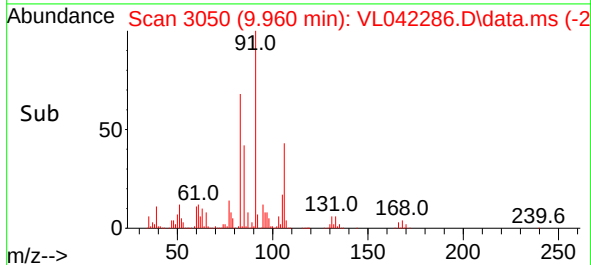
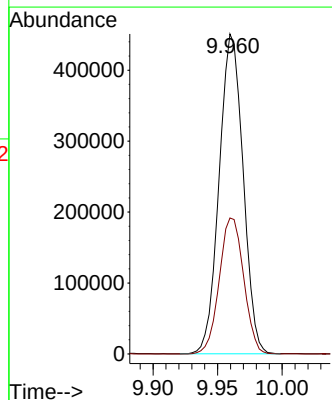
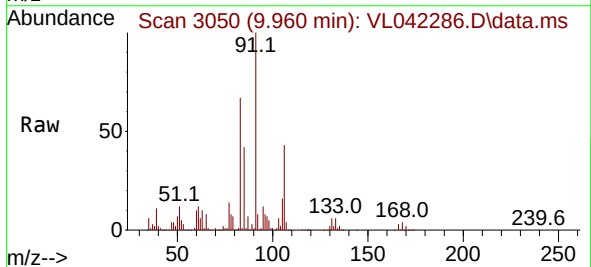
Manual Integrations
APPROVED

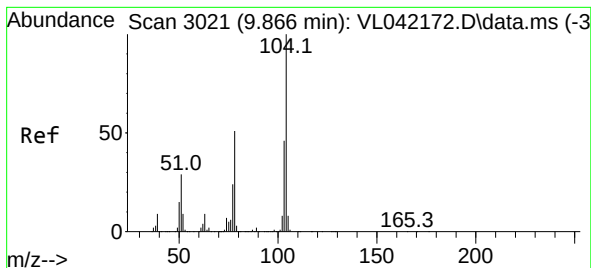
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#60
o-Xylene
Concen: 11.671 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion: 91 Resp: 581045
Ion Ratio Lower Upper
91 100
106 43.4 20.8 62.5





#61

Styrene

Concen: 10.212 ppbv

RT: 9.869 min Scan# 3021

Delta R.T. 0.003 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

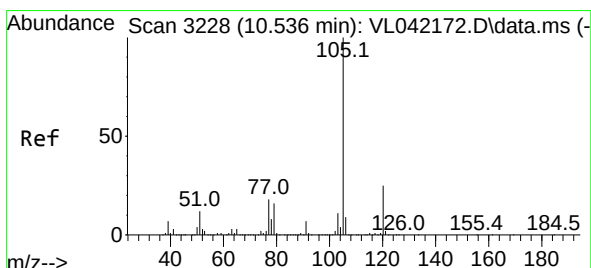
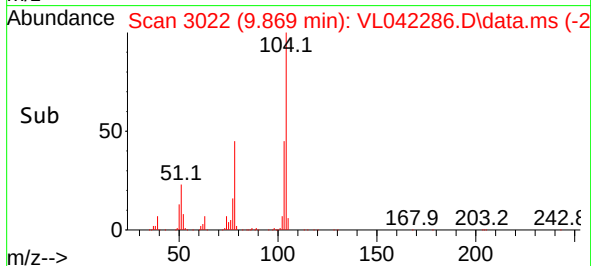
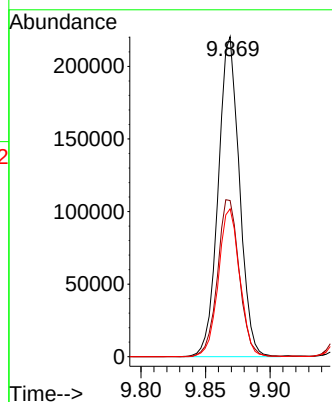
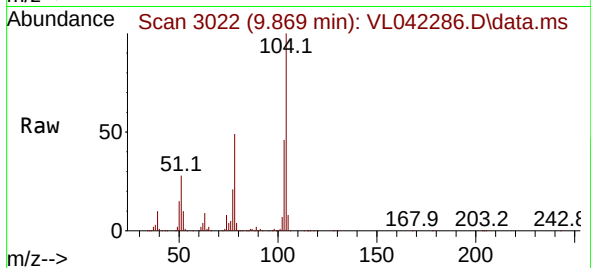
VSTDCCC010

Tgt Ion:104 Resp: 251529
 Ion Ratio Lower Upper
 104 100
 78 50.4 41.8 62.6
 103 46.7 37.0 55.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#62

Isopropylbenzene

Concen: 11.538 ppbv

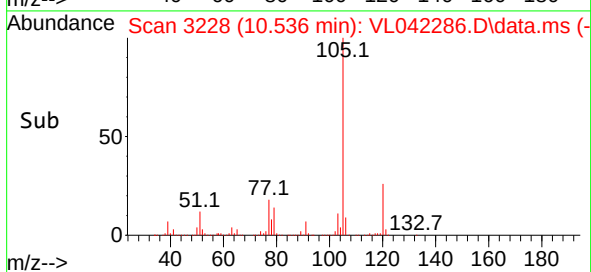
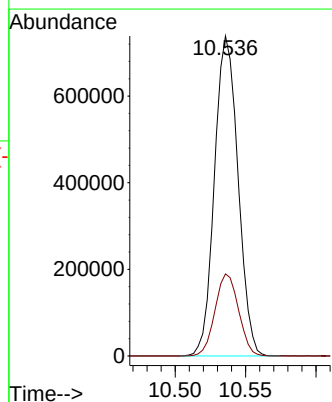
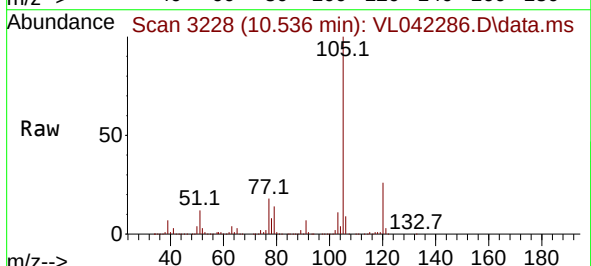
RT: 10.536 min Scan# 3228

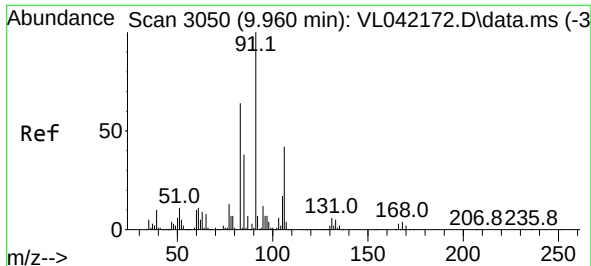
Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

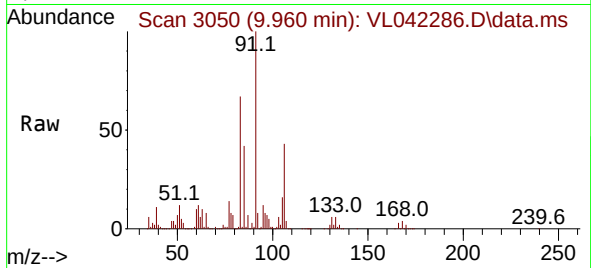
Tgt Ion:105 Resp: 859013
 Ion Ratio Lower Upper
 105 100
 120 25.6 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 12.623 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

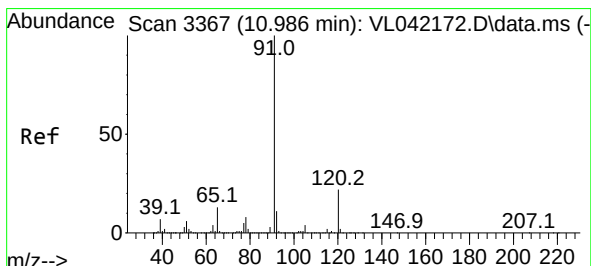
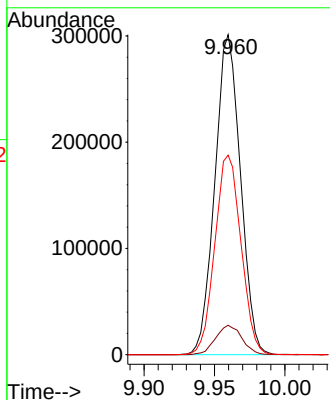
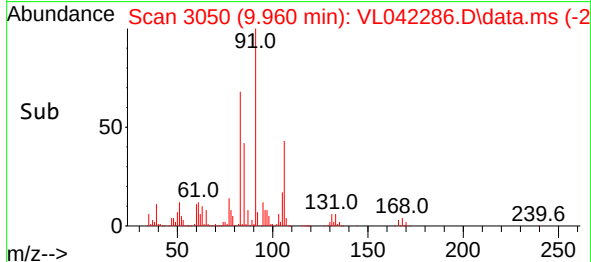
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010



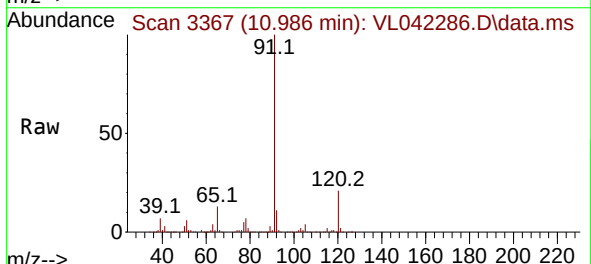
Tgt Ion: 83 Resp: 38184
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 63.7 32.5 97.5

Manual Integrations
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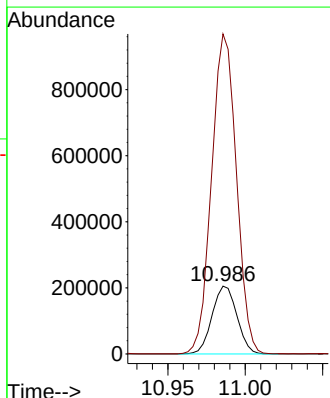
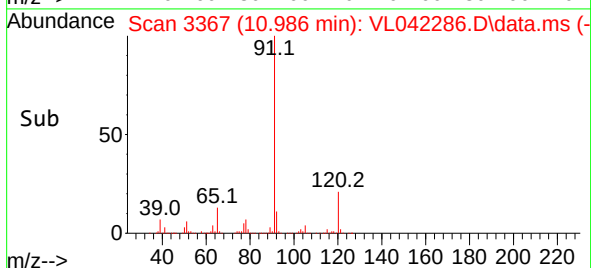
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

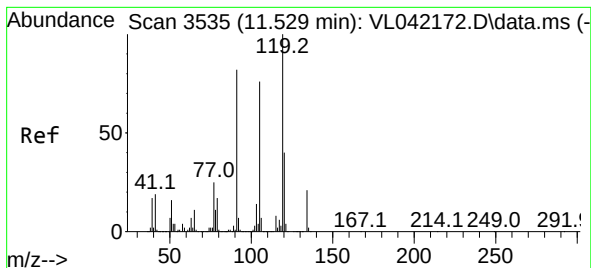


#64
n-propylbenzene
Concen: 11.925 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



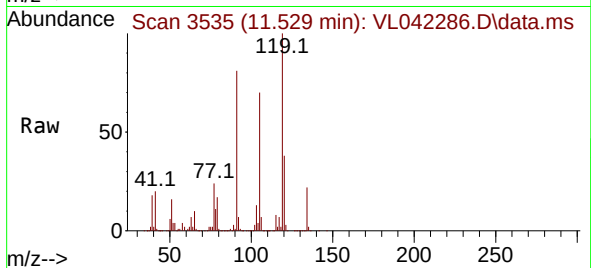
Tgt Ion:120 Resp: 228532
Ion Ratio Lower Upper
120 100
91 472.2 376.9 565.3





#65
tert-Butylbenzene
Concen: 11.393 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

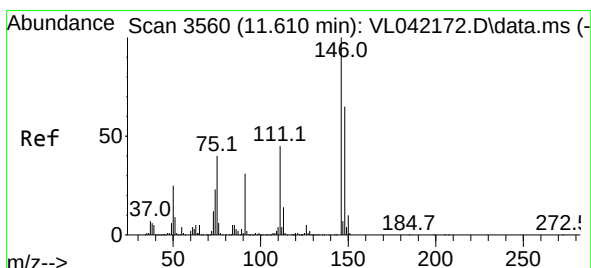
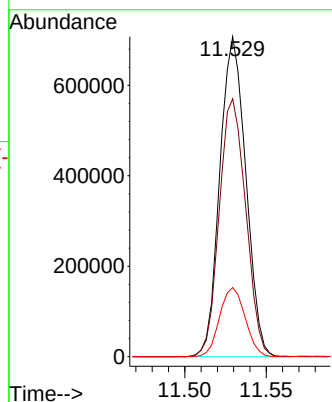
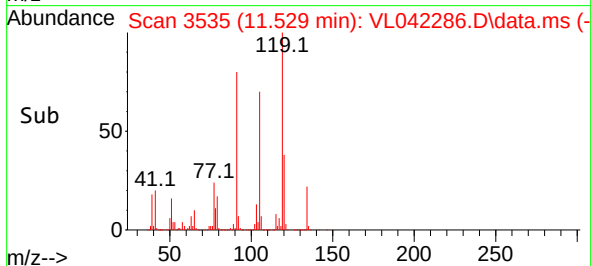
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



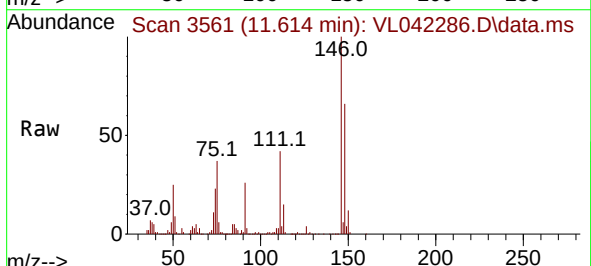
Tgt Ion: 119 Resp: 78448
Ion Ratio Lower Upper
119 100
91 82.1 66.0 99.0
134 21.2 16.7 25.1

Manual Integrations
APPROVED

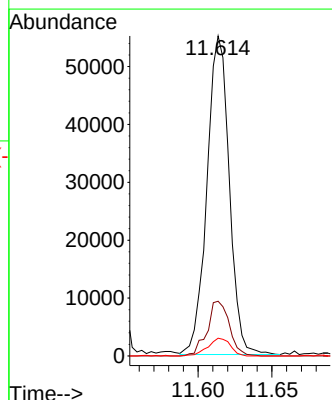
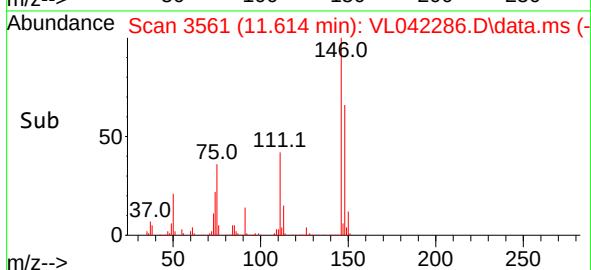
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

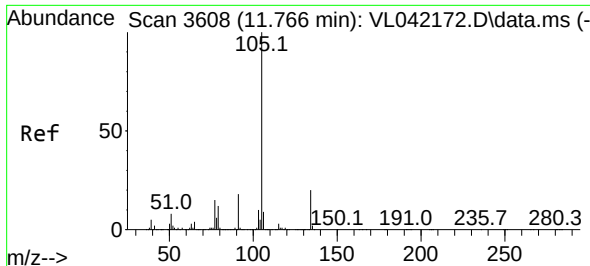


#66
Benzyl Chloride
Concen: 7.934 ppbv
RT: 11.614 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



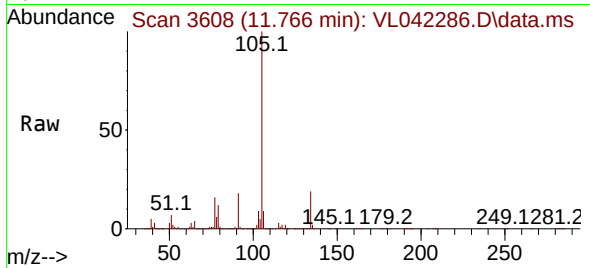
Tgt Ion: 91 Resp: 57966
Ion Ratio Lower Upper
91 100
126 17.0 13.8 20.6
128 5.7 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 11.787 ppbv
 RT: 11.766 min Scan# 3608
 Delta R.T. 0.000 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20

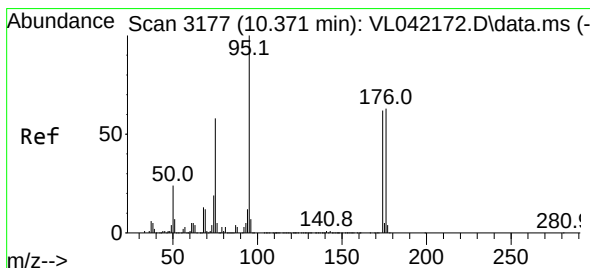
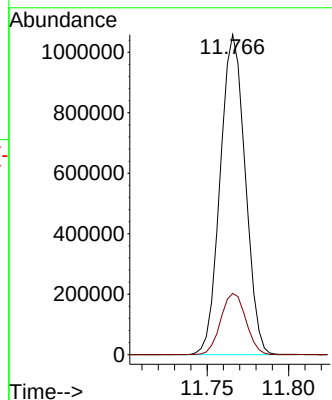
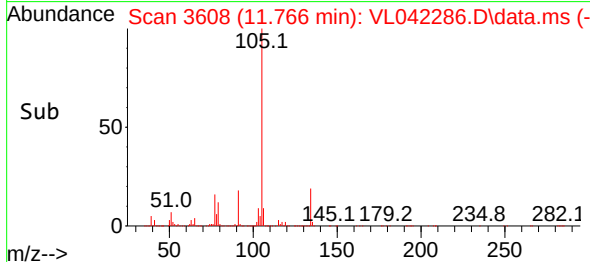
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



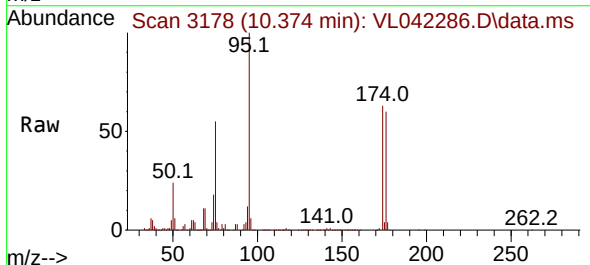
Tgt Ion: 105 Resp: 1128100
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.5 23.3

Manual Integrations
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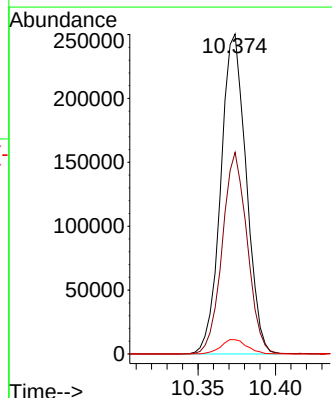
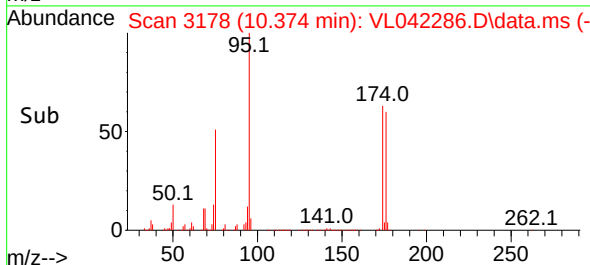
Reviewed By : Semsettin Yesilyurt 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

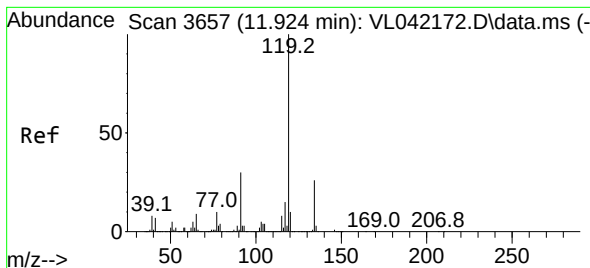


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.930 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042286.D
 Acq: 09 Apr 2025 10:20



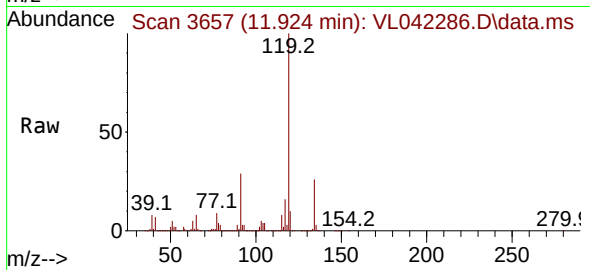
Tgt Ion: 95 Resp: 285515
 Ion Ratio Lower Upper
 95 100
 174 61.9 50.6 76.0
 175 4.7 3.8 5.6





#69
p-Isopropyltoluene
Concen: 11.669 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

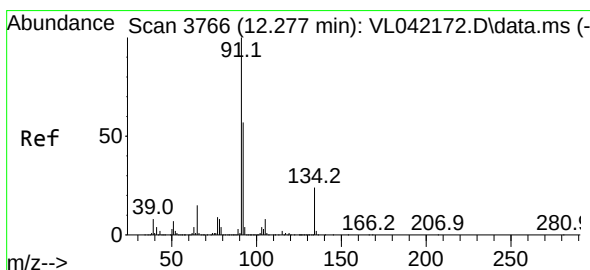
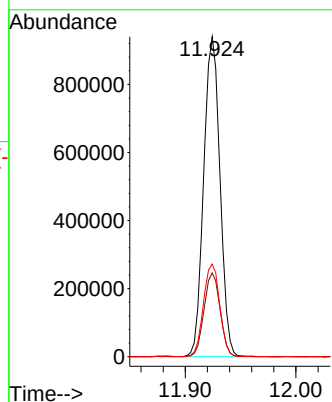
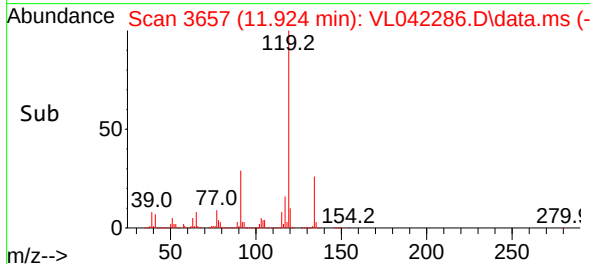
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



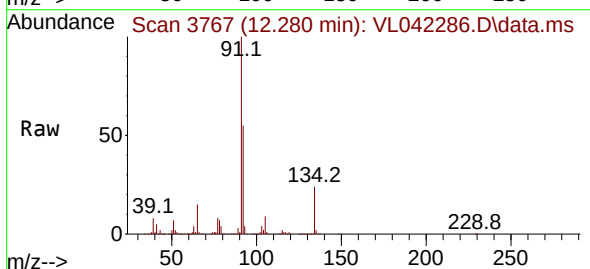
Tgt Ion: 119 Resp: 961623
Ion Ratio Lower Upper
119 100
134 25.8 20.4 30.6
91 29.2 23.7 35.5

Manual Integrations
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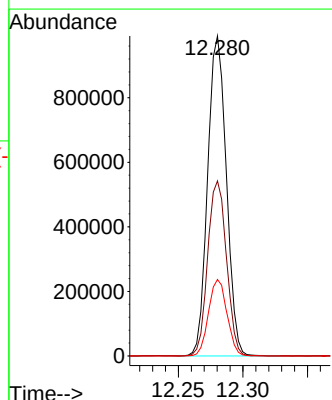
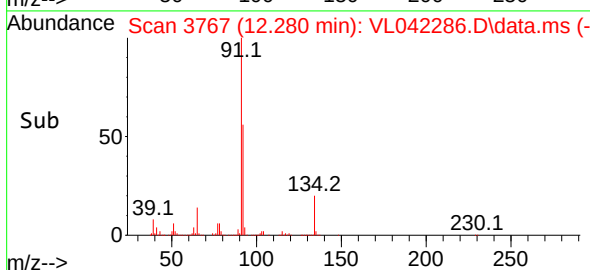
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

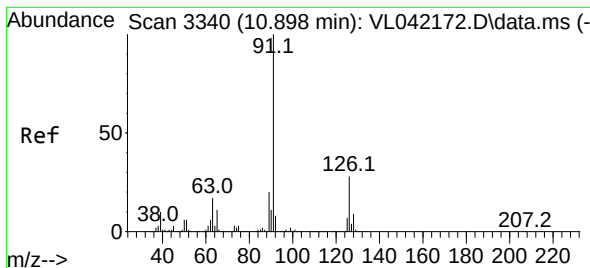


#70
n-Butylbenzene
Concen: 11.847 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20



Tgt Ion: 91 Resp: 998455
Ion Ratio Lower Upper
91 100
92 55.0 44.9 67.3
134 23.6 19.2 28.8





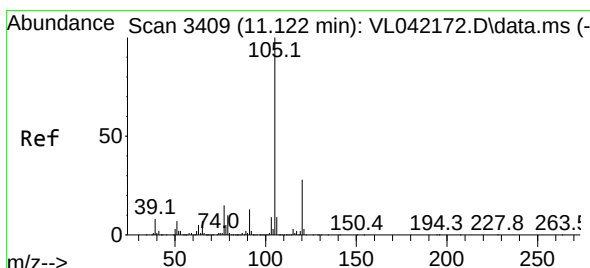
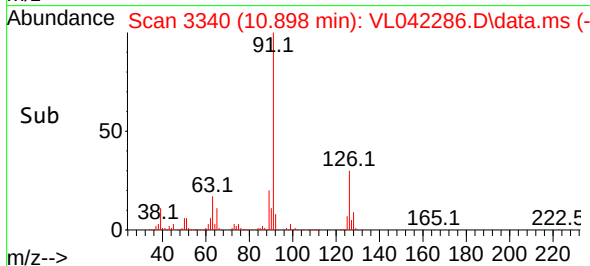
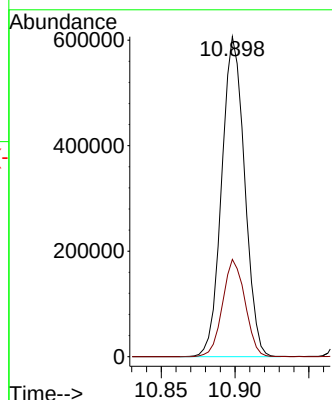
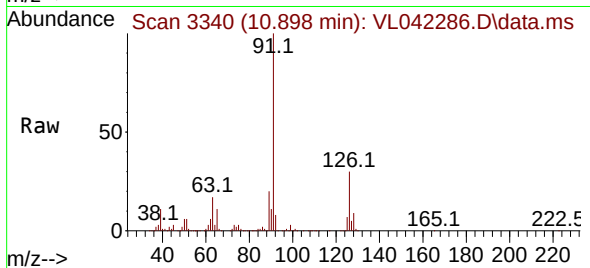
#71
2-Chlorotoluene
Concen: 11.323 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 654270
Ion Ratio Lower Upper
91 100
126 29.8 11.6 46.4

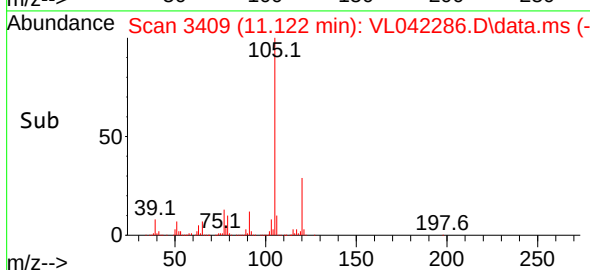
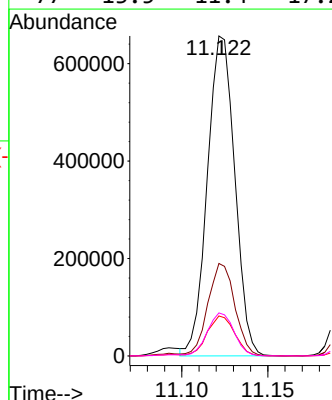
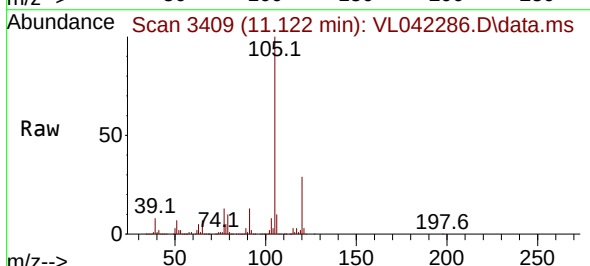
Manual Integrations
APPROVED

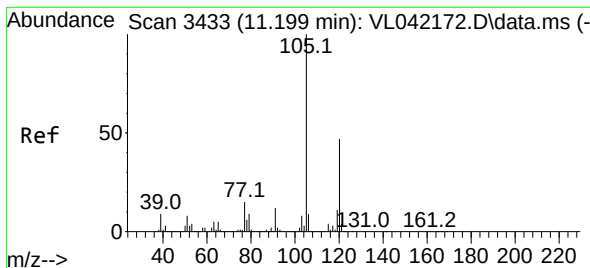
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#72
4-Ethyltoluene
Concen: 11.753 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 728517
Ion Ratio Lower Upper
105 100
120 29.1 23.4 35.0
91 12.8 10.3 15.5
77 13.5 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 11.460 ppbv

RT: 11.202 min Scan# 3433

Delta R.T. 0.003 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 62041

Ion Ratio Lower Upper

105 100

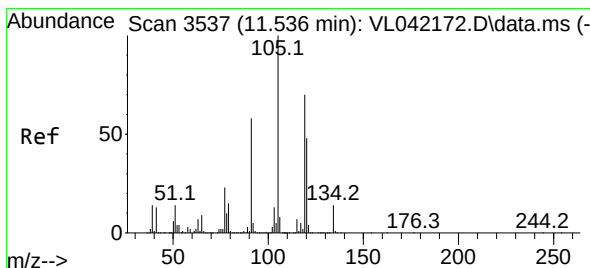
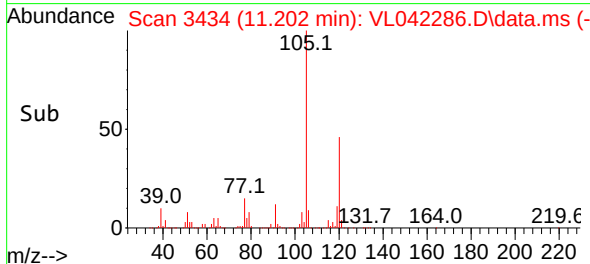
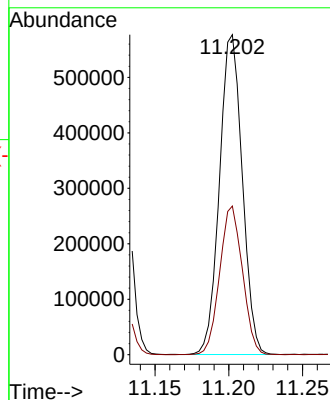
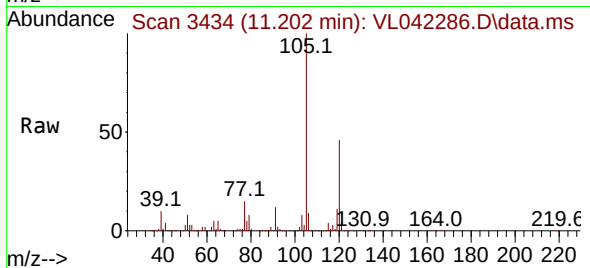
120 46.4 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#74

1,2,4-Trimethylbenzene

Concen: 11.371 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Tgt Ion:105 Resp: 709204

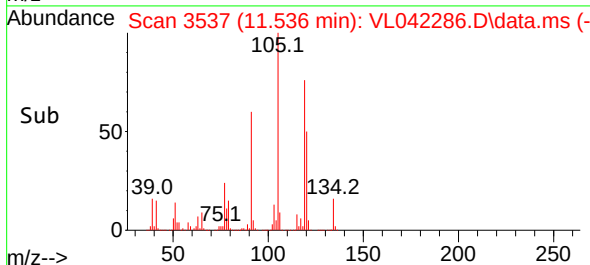
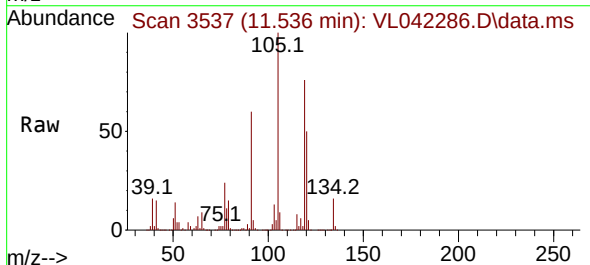
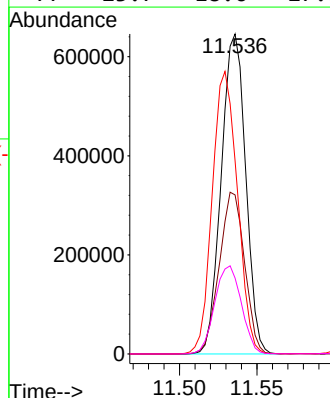
Ion Ratio Lower Upper

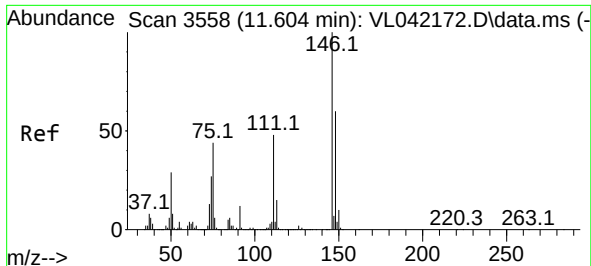
105 100

120 49.7 38.6 58.0

91 60.3 46.2 69.2

77 23.7 18.6 27.8





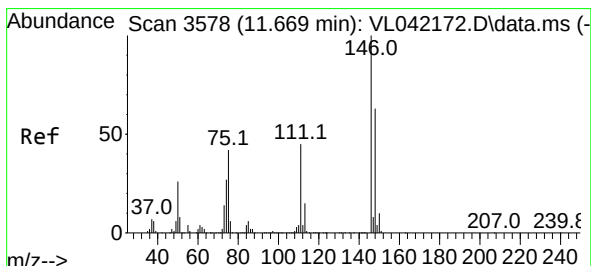
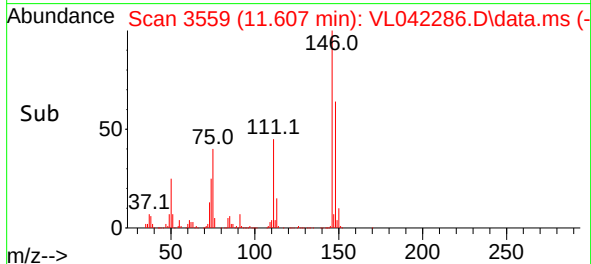
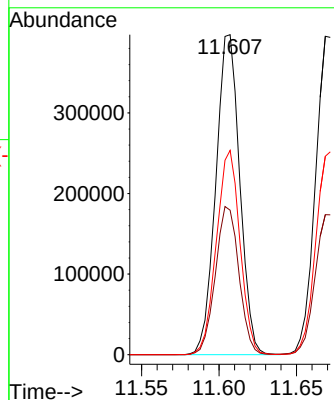
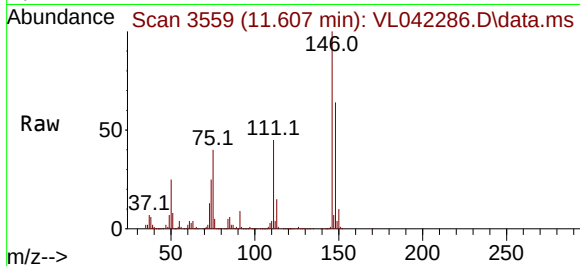
#75
1,3-Dichlorobenzene
Concen: 12.462 ppbv
RT: 11.607 min Scan# 3558
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:146 Resp: 426300
Ion Ratio Lower Upper
146 100
111 45.6 23.8 71.2
148 63.0 31.9 95.9

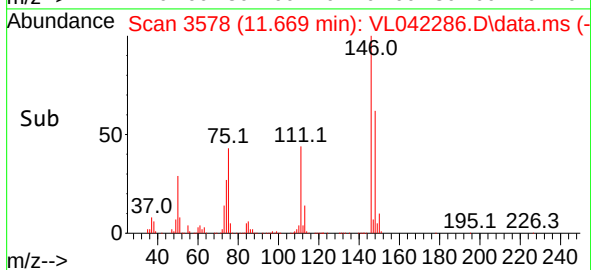
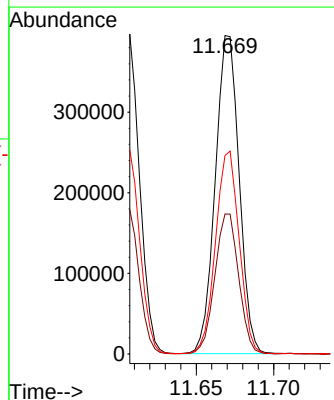
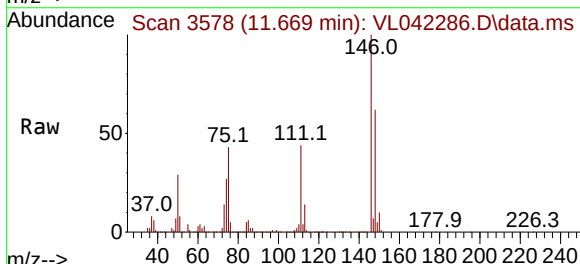
Manual Integrations
APPROVED

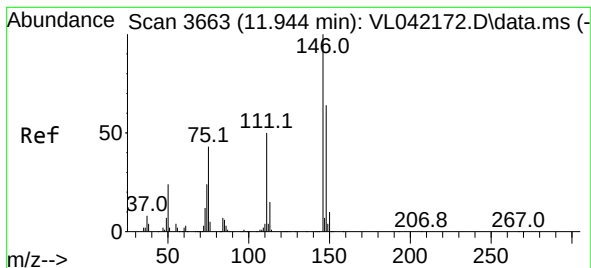
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#76
1,4-Dichlorobenzene
Concen: 12.442 ppbv
RT: 11.669 min Scan# 3578
Delta R.T. 0.000 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:146 Resp: 423561
Ion Ratio Lower Upper
146 100
111 44.2 23.0 69.0
148 63.4 31.9 95.7





#77

1,2-Dichlorobenzene

Concen: 12.589 ppbv

RT: 11.947 min Scan# 3663

Delta R.T. 0.003 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:146 Resp: 419286

Ion Ratio Lower Upper

146 100

111 48.5 24.8 74.3

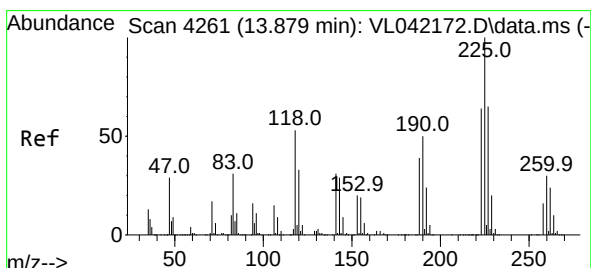
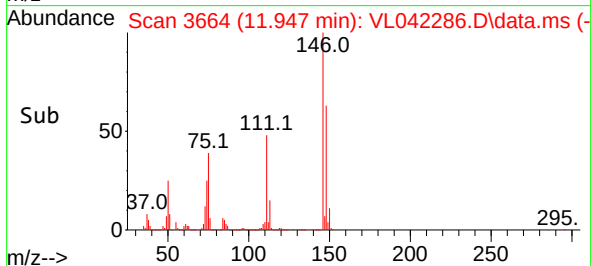
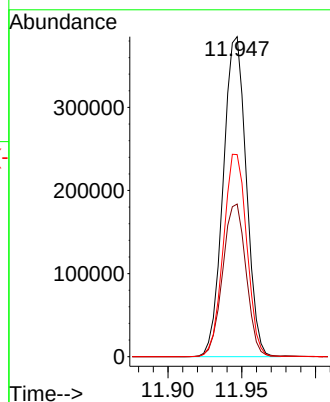
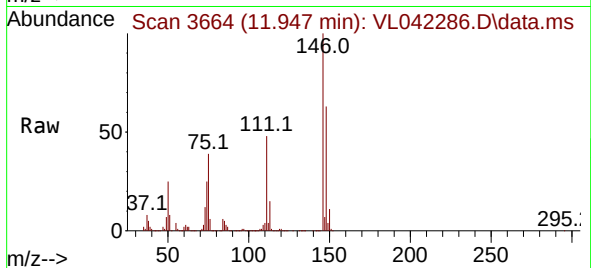
148 64.3 31.6 94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#78

Hexachloro-1,3-Butadiene

Concen: 9.864 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. 0.000 min

Lab File: VL042286.D

Acq: 09 Apr 2025 10:20

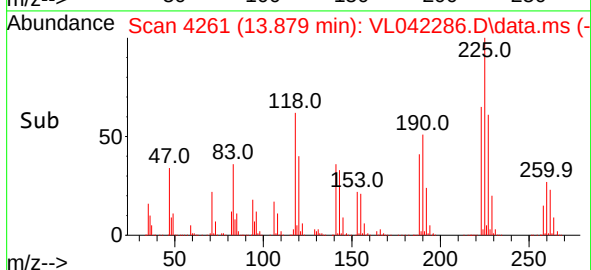
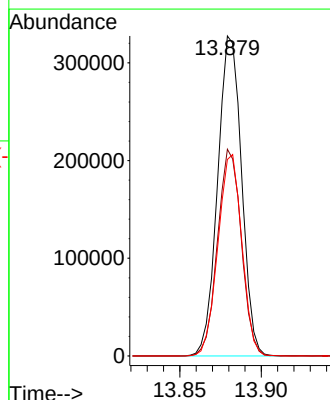
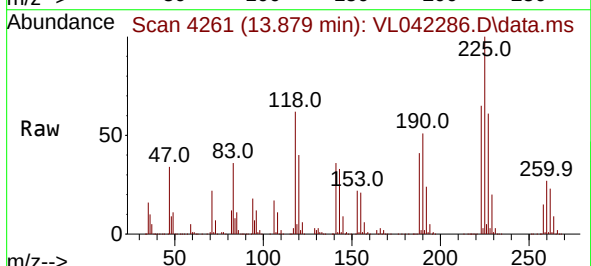
Tgt Ion:225 Resp: 334414

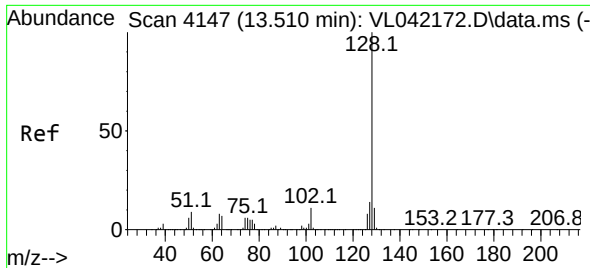
Ion Ratio Lower Upper

225 100

223 63.9 50.6 76.0

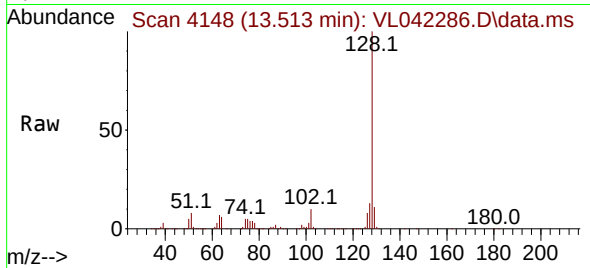
227 62.8 51.2 76.8





#79
Naphthalene
Concen: 11.851 ppbv
RT: 13.513 min Scan# 4147
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

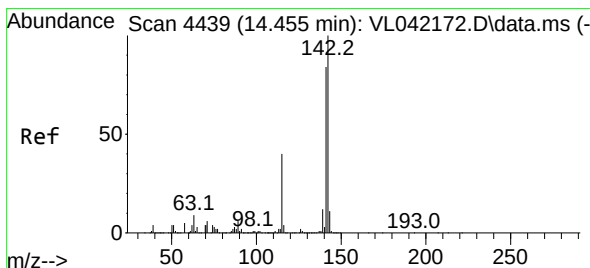
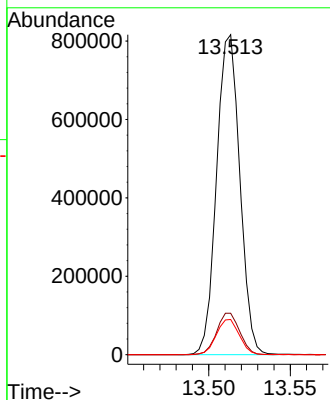
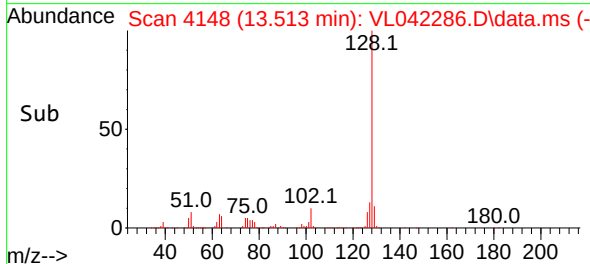
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:128 Resp: 808459
Ion Ratio Lower Upper
128 100
127 12.9 10.8 16.2
129 11.0 9.0 13.4

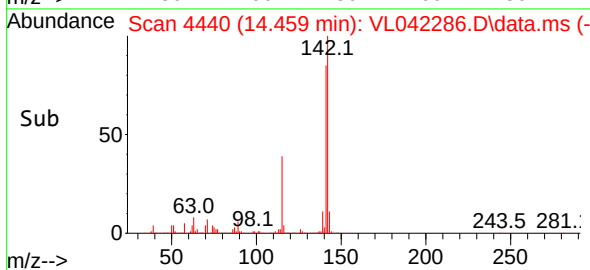
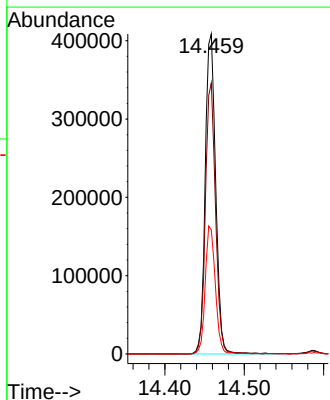
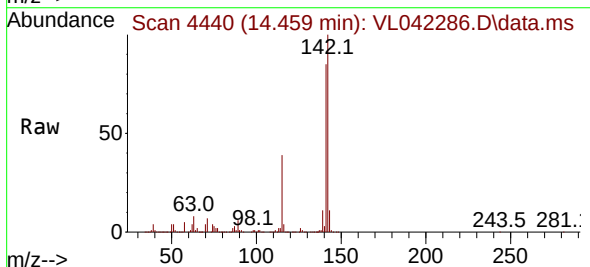
Manual Integrations
APPROVED

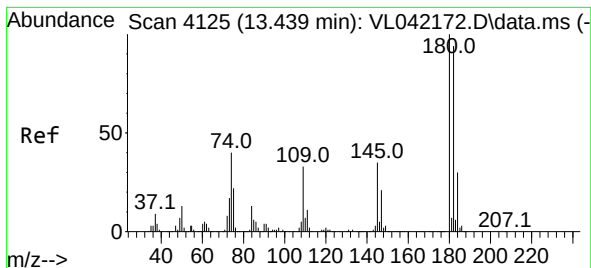
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#80
Naphthalene,2-methyl-
Concen: 11.158 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.003 min
Lab File: VL042286.D
Acq: 09 Apr 2025 10:20

Tgt Ion:142 Resp: 373298
Ion Ratio Lower Upper
142 100
141 82.9 66.3 99.5
115 39.2 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 11.305 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042286.D

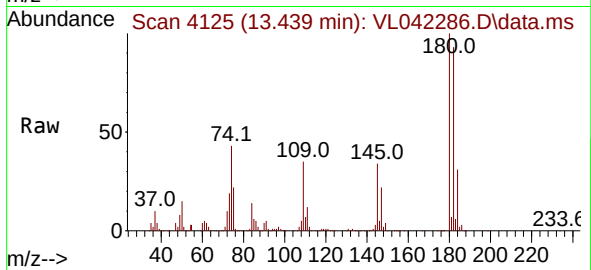
Acq: 09 Apr 2025 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010



Tgt Ion:180 Resp: 35574

Ion Ratio Lower Upper

180 100

182 93.9 75.1 112.7

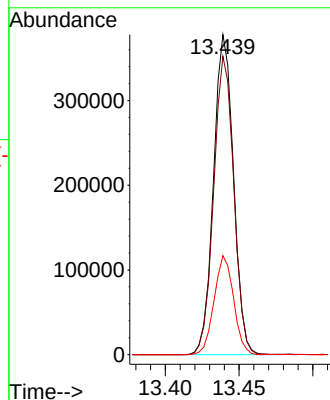
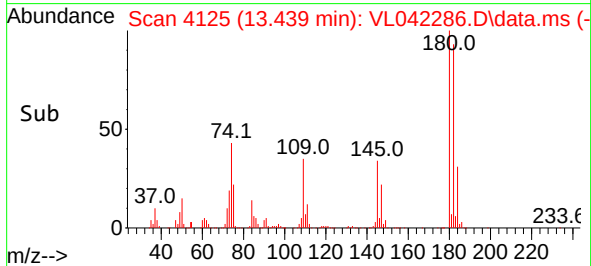
184 30.3 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	83	0.00
2 T	Dichlorodifluoromethane	1.476	1.444	2.2	86	0.00
3	Chlorodifluoromethane	1.508	1.557	-3.2	89	0.00
4	Chloromethane	0.603	0.607	-0.7	88	0.00
5 T	Vinyl Chloride	0.639	0.560	12.4	85	0.00
6 T	Bromomethane	0.273	0.250	8.4	81	0.00
7	Chloroethane	0.242	0.225	7.0	82	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.243	1.1	85	0.00
9 T	Propene	0.691	0.593	14.2	75	0.00
10 T	Heptane	1.839	1.800	2.1	84	0.00
11 T	Trichlorofluoromethane	1.437	1.405	2.2	87	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.149	2.7	85	0.00
13	Ethanol	0.065	0.030#	53.8#	86	0.00
14 T	Bromoethene	0.452	0.393	13.1	78	0.00
15 T	Acetone	1.399	1.260	9.9	94	0.00
16 T	1,3-Butadiene	0.683	0.610	10.7	89	0.00
17	tert-Butyl alcohol	1.742	1.415	18.8	73	0.00
18 T	1,1-Dichloroethene	0.552	0.499	9.6	82	0.00
19 T	Isopropyl Alcohol	0.789	0.664	15.8	79	0.00
20 T	Methylene Chloride	0.521	0.441	15.4	84	0.00
21 T	Allyl Chloride	0.986	0.899	8.8	83	0.00
22 T	trans-1,2-Dichloroethene	0.638	0.568	11.0	80	0.00
23 T	Vinyl Acetate	0.605	0.470	22.3	79	0.00
24 T	1,1-Dichloroethane	1.183	1.159	2.0	86	0.00
25 T	Ethyl Acetate	3.630	3.644	-0.4	88	0.00
26 T	Hexane	1.402	1.381	1.5	86	0.00
27 T	Carbon Disulfide	1.503	1.391	7.5	81	0.00
28 T	Methyl tert-Butyl Ether	0.873	0.705	19.2	71	0.00
29 T	Chloroform	2.052	2.190	-6.7	94	0.00
30 T	Cyclohexane	1.217	1.095	10.0	78	0.00
31 T	cis-1,2-Dichloroethene	1.423	1.297	8.9	79	0.00
32 T	1,1,1-Trichloroethane	2.349	2.135	9.1	86	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	73	0.00
34 T	2-Butanone	0.725	0.789	-8.8	86	0.00
35 T	Carbon Tetrachloride	0.781	0.879	-12.5	91	0.00
36 T	Benzene	0.991	1.071	-8.1	84	0.00
37 T	1,2-Dichloroethane	0.568	0.647	-13.9	88	0.00
38 T	Trichloroethene	0.414	0.429	-3.6	83	0.00
39 T	1,2-Dichloropropane	0.361	0.387	-7.2	84	0.00
40 T	1,4-Dioxane	0.192	0.183	4.7	79	0.00
41 T	Tetrahydrofuran	0.418	0.441	-5.5	81	0.00
42 T	Bromodichloromethane	0.782	0.904	-15.6	86	0.00
43	Methyl Methacrylate	0.420	0.390	7.1	71	0.00
44 T	2,2,4-Trimethylpentane	1.675	1.869	-11.6	85	0.00
45 T	t-1,3-Dichloropropene	0.450	0.371	17.6	62	0.00
46 T	cis-1,3-Dichloropropene	0.552	0.493	10.7	65	0.00
47 T	1,1,2-Trichloroethane	0.382	0.434	-13.6	87	0.00
48 T	Dibromochloromethane	0.647	0.705	-9.0	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.630	-8.4	79	0.00
50 T	4-Methyl-2-Pentanone	1.149	1.122	2.3	80	0.00
51 T	2-Hexanone	0.944	0.891	5.6	77	0.00
52 T	Tetrachloroethene	0.393	0.357	9.2	76	0.00
53 T	Toluene	1.175	1.171	0.3	76	0.00
54 T	1,2-Dibromoethane	0.532	0.578	-8.6	83	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
56	1,1,1,2-Tetrachloroethane	0.550	0.660	-20.0	87	0.00
57 T	Chlorobenzene	0.949	1.140	-20.1	88	0.00
58 T	Ethyl Benzene	1.776	1.924	-8.3	78	0.00
59 T	m/p-Xylene	1.418	1.658	-16.9	85	0.00
60 T	o-Xylene	1.422	1.659	-16.7	84	0.00
61 T	Styrene	0.703	0.718	-2.1	71	0.00
62	Isopropylbenzene	2.126	2.453	-15.4	84	0.00
63 T	1,1,2,2-Tetrachloroethane	0.864	1.091	-26.3	92	0.00
64	n-propylbenzene	0.547	0.653	-19.4	88	0.00
65	tert-Butylbenzene	1.966	2.240	-13.9	87	0.00
66 T	Benzyl Chloride	0.209	0.166	20.6	55	0.00
67	sec-Butylbenzene	2.733	3.222	-17.9	90	0.00
68 S	1-Bromo-4-Fluorobenzene	0.821	0.815	0.7	68	0.00
69	p-Isopropyltoluene	2.354	2.746	-16.7	89	0.00
70	n-Butylbenzene	2.407	2.852	-18.5	90	0.00
71	2-Chlorotoluene	1.650	1.869	-13.3	82	0.00
72 T	4-Ethyltoluene	1.770	2.081	-17.6	86	0.00
73 T	1,3,5-Trimethylbenzene	1.546	1.772	-14.6	86	0.00
74 T	1,2,4-Trimethylbenzene	1.781	2.025	-13.7	90	0.00
75 T	1,3-Dichlorobenzene	0.977	1.218	-24.7	93	0.00
76 T	1,4-Dichlorobenzene	0.972	1.210	-24.5	92	0.00
77 T	1,2-Dichlorobenzene	0.951	1.197	-25.9	95	0.00
78 T	Hexachloro-1,3-Butadiene	0.968	0.955	1.3	80	0.00
79 T	Naphthalene	1.948	2.309	-18.5	86	0.00
80 T	Naphthalene,2-methyl-	0.955	1.066	-11.6	73	0.00
81 T	1,2,4-Trichlorobenzene	0.899	1.016	-13.0	80	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	83	0.00
2 T	Dichlorodifluoromethane	10.000	9.780	2.2	86	0.00
3	Chlorodifluoromethane	10.000	10.325	-3.2	89	0.00
4	Chloromethane	10.000	10.054	-0.5	88	0.00
5 T	Vinyl Chloride	10.000	8.750	12.5	85	0.00
6 T	Bromomethane	10.000	9.136	8.6	81	0.00
7	Chloroethane	10.000	9.290	7.1	82	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.882	1.2	85	0.00
9 T	Propene	10.000	8.573	14.3	75	0.00
10 T	Heptane	10.000	9.789	2.1	84	0.00
11 T	Trichlorofluoromethane	10.000	9.783	2.2	87	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.726	2.7	85	0.00
13	Ethanol	10.000	4.530	54.7#	86	0.00
14 T	Bromoethene	10.000	8.693	13.1	78	0.00
15 T	Acetone	10.000	9.008	9.9	94	0.00
16 T	1,3-Butadiene	10.000	8.931	10.7	89	0.00
17	tert-Butyl alcohol	10.000	8.122	18.8	73	0.00
18 T	1,1-Dichloroethene	10.000	9.042	9.6	82	0.00
19 T	Isopropyl Alcohol	10.000	8.415	15.9	79	0.00
20 T	Methylene Chloride	10.000	8.461	15.4	84	0.00
21 T	Allyl Chloride	10.000	9.118	8.8	83	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.896	11.0	80	0.00
23 T	Vinyl Acetate	10.000	7.766	22.3	79	0.00
24 T	1,1-Dichloroethane	10.000	9.801	2.0	86	0.00
25 T	Ethyl Acetate	10.000	10.039	-0.4	88	0.00
26 T	Hexane	10.000	9.848	1.5	86	0.00
27 T	Carbon Disulfide	10.000	9.253	7.5	81	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.077	19.2	71	0.00
29 T	Chloroform	10.000	10.675	-6.8	94	0.00
30 T	Cyclohexane	10.000	8.991	10.1	78	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.110	8.9	79	0.00
32 T	1,1,1-Trichloroethane	10.000	9.088	9.1	86	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	73	0.00
34 T	2-Butanone	10.000	10.886	-8.9	86	0.00
35 T	Carbon Tetrachloride	10.000	11.256	-12.6	91	0.00
36 T	Benzene	10.000	10.802	-8.0	84	0.00
37 T	1,2-Dichloroethane	10.000	11.391	-13.9	88	0.00
38 T	Trichloroethene	10.000	10.370	-3.7	83	0.00
39 T	1,2-Dichloropropane	10.000	10.710	-7.1	84	0.00
40 T	1,4-Dioxane	10.000	9.539	4.6	79	0.00
41 T	Tetrahydrofuran	10.000	10.556	-5.6	81	0.00
42 T	Bromodichloromethane	10.000	11.551	-15.5	86	0.00
43	Methyl Methacrylate	10.000	9.297	7.0	71	0.00
44 T	2,2,4-Trimethylpentane	10.000	11.157	-11.6	85	0.00
45 T	t-1,3-Dichloropropene	10.000	8.231	17.7	62	0.00
46 T	cis-1,3-Dichloropropene	10.000	8.932	10.7	65	0.00
47 T	1,1,2-Trichloroethane	10.000	11.369	-13.7	87	0.00
48 T	Dibromochloromethane	10.000	10.907	-9.1	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042286.D
 Acq On : 09 Apr 2025 10:20
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 10 01:39:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	10.849	-8.5	79	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.760	2.4	80	0.00
51 T	2-Hexanone	10.000	9.437	5.6	77	0.00
52 T	Tetrachloroethene	10.000	9.092	9.1	76	0.00
53 T	Toluene	10.000	9.961	0.4	76	0.00
54 T	1,2-Dibromoethane	10.000	10.871	-8.7	83	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	67	0.00
56	1,1,1,2-Tetrachloroethane	10.000	11.987	-19.9	87	0.00
57 T	Chlorobenzene	10.000	12.021	-20.2	88	0.00
58 T	Ethyl Benzene	10.000	10.834	-8.3	78	0.00
59 T	m/p-Xylene	20.000	23.379	-16.9	85	0.00
60 T	o-Xylene	10.000	11.671	-16.7	84	0.00
61 T	Styrene	10.000	10.212	-2.1	71	0.00
62	Isopropylbenzene	10.000	11.538	-15.4	84	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	12.623	-26.2	92	0.00
64	n-propylbenzene	10.000	11.925	-19.3	88	0.00
65	tert-Butylbenzene	10.000	11.393	-13.9	87	0.00
66 T	Benzyl Chloride	10.000	7.934	20.7	55	0.00
67	sec-Butylbenzene	10.000	11.787	-17.9	90	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.930	0.7	68	0.00
69	p-Isopropyltoluene	10.000	11.669	-16.7	89	0.00
70	n-Butylbenzene	10.000	11.847	-18.5	90	0.00
71	2-Chlorotoluene	10.000	11.323	-13.2	82	0.00
72 T	4-Ethyltoluene	10.000	11.753	-17.5	86	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.460	-14.6	86	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.371	-13.7	90	0.00
75 T	1,3-Dichlorobenzene	10.000	12.462	-24.6	93	0.00
76 T	1,4-Dichlorobenzene	10.000	12.442	-24.4	92	0.00
77 T	1,2-Dichlorobenzene	10.000	12.589	-25.9	95	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.864	1.4	80	0.00
79 T	Naphthalene	10.000	11.851	-18.5	86	0.00
80 T	Naphthalene,2-methyl-	10.000	11.158	-11.6	73	0.00
81 T	1,2,4-Trichlorobenzene	10.000	11.305	-13.0	80	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



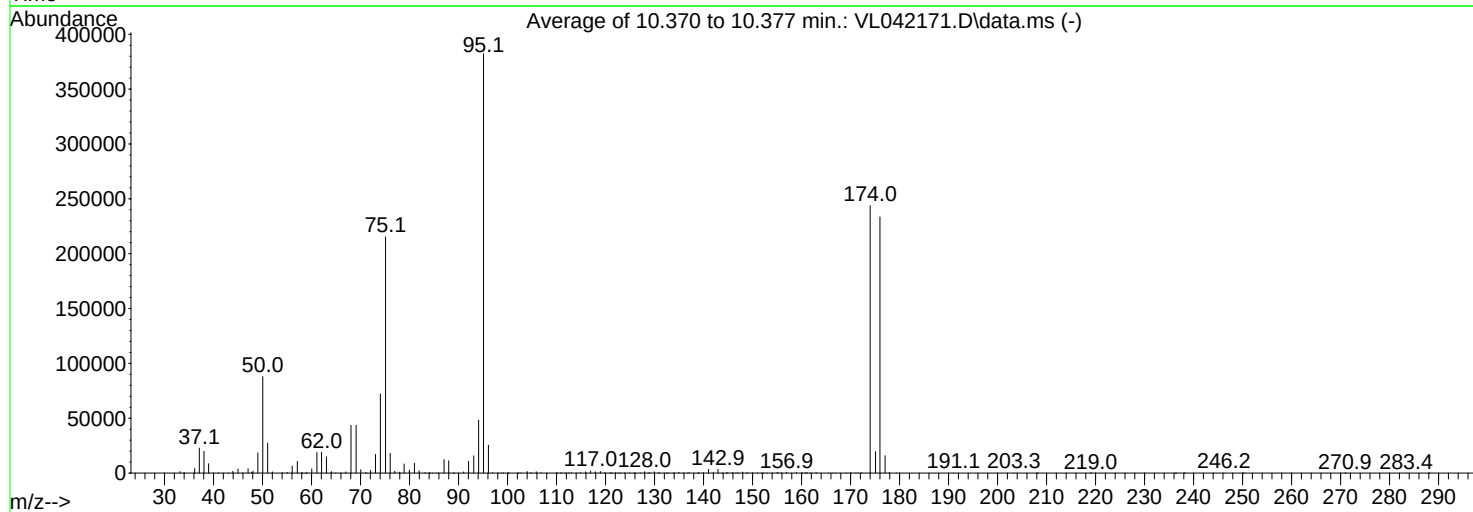
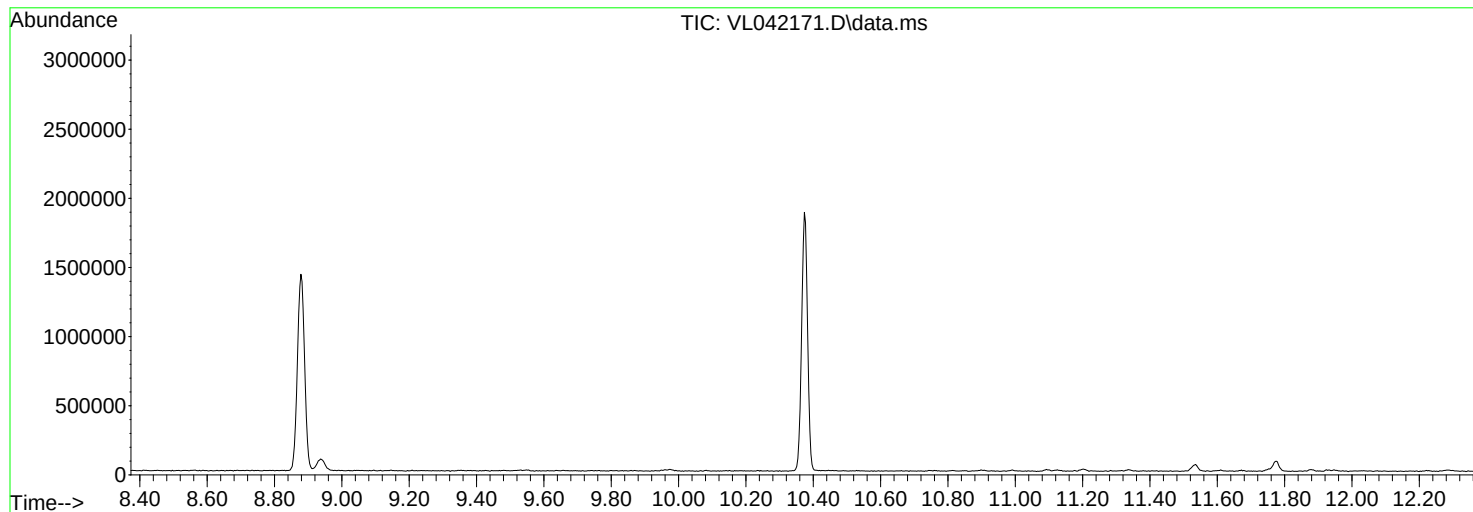
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042171.D
Acq On : 27 Mar 2025 07:44
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\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	87995	PASS
75	95	30	66	56.3	215296	PASS
95	95	100	100	100.0	382268	PASS
96	95	5	9	6.6	25383	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.8	243904	PASS
175	174	4	9	8.0	19539	PASS
176	174	93	101	95.7	233493	PASS
177	176	5	9	6.8	15877	PASS

Average of 10.370 to 10.377 min.: VL042171.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.15	1400	47.05	4001	57.95	183	67.00	1161
33.90	31	47.80	824	58.15	219	68.05	43530
36.15	4138	48.05	1739	58.80	27	69.10	43612
37.10	22759	49.05	18477	59.20	62	70.05	3072
38.05	19773	50.05	87995	60.05	3842	71.05	391
39.00	8558	51.05	27372	61.10	18723	71.30	148
41.00	270	52.00	1090	62.05	19083	72.05	2510
43.05	65	54.00	265	63.05	14806	73.05	17047
43.95	1610	55.05	633	64.05	1355	74.05	72175
45.00	3695	56.05	6441	64.95	108	75.10	215296
46.00	111	57.10	10669	65.95	87	76.05	17968

Average of 10.370 to 10.377 min.: VL042171.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.00	1756	84.70	60	96.10	25383	105.85	1266
77.90	365	85.50	69	96.95	454	106.85	241
78.00	749	85.90	91	98.20	118	108.10	78
78.90	8287	87.05	12260	98.80	119	110.00	6
79.95	2770	88.00	11240	99.15	113	110.80	163
81.00	8994	88.95	27	100.10	27	111.10	228
81.95	2105	91.05	1113	102.10	25	111.80	169
83.05	87	92.05	10732	102.80	142	112.40	56
83.30	152	93.10	15706	104.00	1429	112.60	56
83.95	3	94.10	48315	104.70	208	113.05	295
84.20	78	95.10	382268	104.95	148	114.15	45

Average of 10.370 to 10.377 min.: VL042171.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
114.90	395	123.10	107	132.40	22	141.00	3317
115.95	1131	123.85	235	132.90	67	142.00	364
116.95	1918	124.95	222	133.80	40	142.95	3384
117.90	1124	125.80	79	134.10	121	143.95	131
118.95	1429	126.10	146	134.95	750	144.60	27
119.80	193	127.10	144	135.95	199	144.95	267
120.90	128	127.95	1262	136.70	145	145.90	507
121.10	24	128.70	250	137.05	545	146.60	55
122.00	119	129.00	312	138.80	28	146.95	155
122.50	33	129.95	1135	139.10	132	147.20	55
122.90	76	130.90	590	139.95	372	148.00	938

Average of 10.370 to 10.377 min.: VL042171.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.80	166	156.95	650	169.10	175	179.40	63
149.05	162	158.95	474	169.90	95	191.05	70
149.95	274	160.00	21	170.15	82	203.35	48
151.00	148	160.70	162	171.10	216	208.10	24
151.80	110	160.90	233	171.55	165	219.00	22
152.25	182	161.15	346	172.30	258	236.30	19
152.95	205	161.80	102	174.00	243904	238.10	24
154.00	201	162.90	25	175.10	19539	244.05	44
155.00	271	165.50	37	176.00	233493	246.20	61
155.15	639	166.35	72	177.05	15877	250.10	21
155.90	116	167.00	175	177.90	397	270.90	18

Average of 10.370 to 10.377 min.: VL042171.D\data.ms

BFB

Modified:subtracted

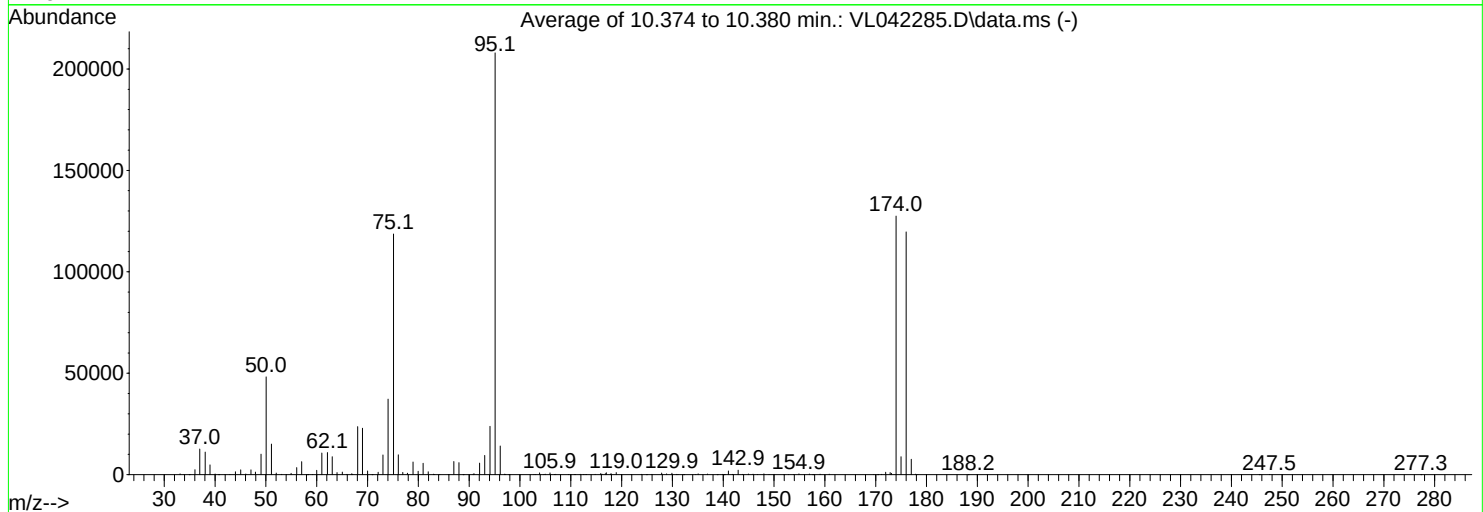
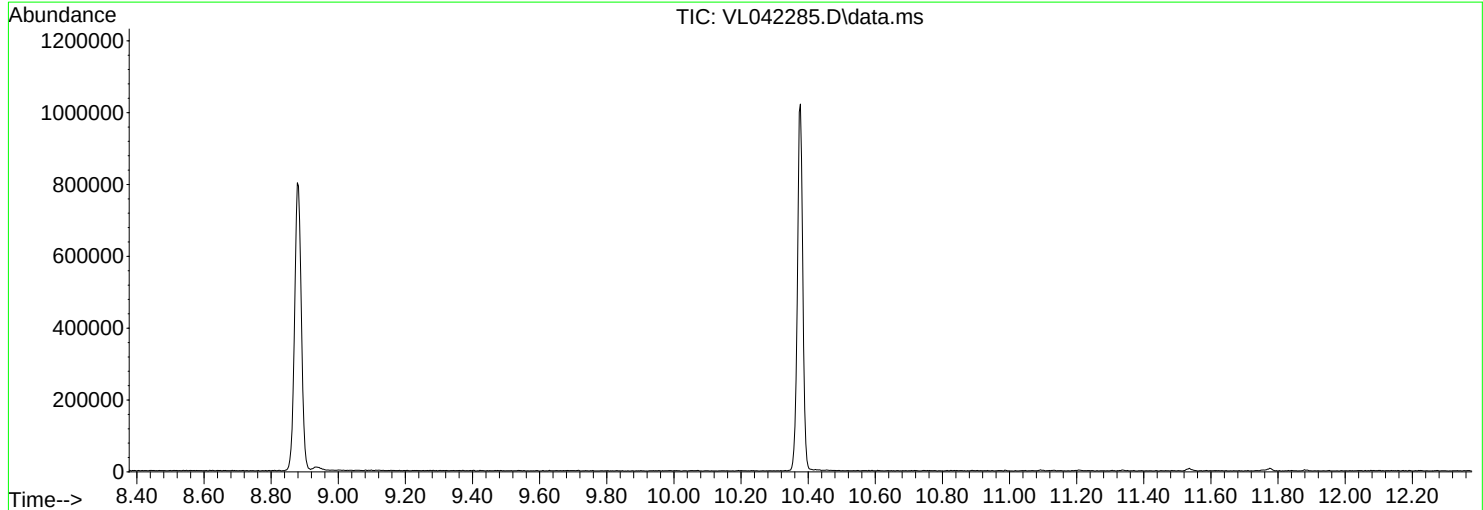
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.40	34						
288.00	20						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042285.D
Acq On : 09 Apr 2025 09:38
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3162

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.2	48216	PASS
75	95	30	66	57.1	118680	PASS
95	95	100	100	100.0	207979	PASS
96	95	5	9	6.8	14091	PASS
173	174	0.00	2	0.8	1054	PASS
174	95	50	120	61.3	127477	PASS
175	174	4	9	6.9	8833	PASS
176	174	93	101	93.9	119656	PASS
177	176	5	9	6.4	7607	PASS

Average of 10.374 to 10.380 min.: VL042285.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	417	44.00	1441	54.95	620	65.05	1261
33.90	94	45.05	2380	56.05	3516	65.95	191
34.90	32	46.05	349	57.05	6411	66.85	42
36.05	2446	47.05	2354	58.00	104	67.10	21
37.00	12645	47.95	1257	58.20	27	68.05	23661
38.05	11110	49.05	10139	59.20	77	69.00	22856
39.00	4835	50.05	48216	60.00	2135	70.00	1792
40.00	285	51.10	15074	61.00	10694	70.90	28
40.70	43	52.05	766	62.10	10932	72.10	1207
41.95	120	53.10	151	63.05	8834	73.05	9735
42.90	87	54.05	105	64.00	1068	74.05	37269

Average of 10.374 to 10.380 min.: VL042285.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.10	118680	85.90	71	96.10	14091	107.05	179
76.05	9755	86.05	118	96.95	206	109.60	68
76.95	1134	87.00	6464	97.20	139	110.00	75
77.85	699	88.00	5942	97.80	28	110.70	114
78.95	6222	88.80	47	102.75	63	110.90	74
79.95	1641	90.80	279	103.10	96	111.85	172
80.95	5627	90.95	507	103.85	857	112.50	49
81.95	1425	92.05	5692	104.70	125	112.80	63
83.00	204	93.05	9492	104.95	249	113.10	76
83.20	94	94.10	23832	105.90	865	114.80	180
84.20	58	95.10	207979	106.80	78	115.85	485

Average of 10.374 to 10.380 min.: VL042285.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.10	288	127.90	758	140.20	33	150.00	189
116.80	473	128.85	382	141.00	1805	151.90	40
117.00	944	129.90	746	141.80	182	152.90	81
117.80	206	130.85	177	142.00	79	153.85	116
117.95	512	131.10	126	142.95	2193	154.90	405
118.95	998	132.20	19	143.85	183	155.95	119
119.95	112	134.60	74	144.95	304	156.95	348
121.90	73	135.05	382	145.85	215	157.60	42
123.90	168	136.90	304	146.75	89	158.00	85
124.90	17	138.80	18	148.00	408	159.05	270
125.95	151	139.90	129	149.00	121	160.85	202

Average of 10.374 to 10.380 min.: VL042285.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.65	95	178.30	58				
170.40	28	188.20	47				
171.15	163	245.50	43				
171.95	1199	247.50	74				
172.85	1054	277.30	17				
173.10	604						
174.00	127477						
175.00	8833						
176.00	119656						
177.00	7607						
177.90	238						

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	777 Chestnut Ridge RD, Chestnut Ridge NY	Date Received:	
Client Sample ID:	VL0409ABL01	SDG No.:	Q1757
Lab Sample ID:	VL0409ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042287.D	1		04/09/25 11:03	VL040925

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
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	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
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.10			65 - 135	91%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	157000		2.784			
540-36-3	1,4-Difluorobenzene	392000		3.955			
3114-55-4	Chlorobenzene-d5	334000		8.878			

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\VL040925\
 Data File : VL042287.D
 Acq On : 09 Apr 2025 11:03
 Operator : SY/MD
 Sample : VL0409ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABL01

Quant Time: Apr 10 01:40:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	156784	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	391570	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	334054	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	250420	9.128	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.300%

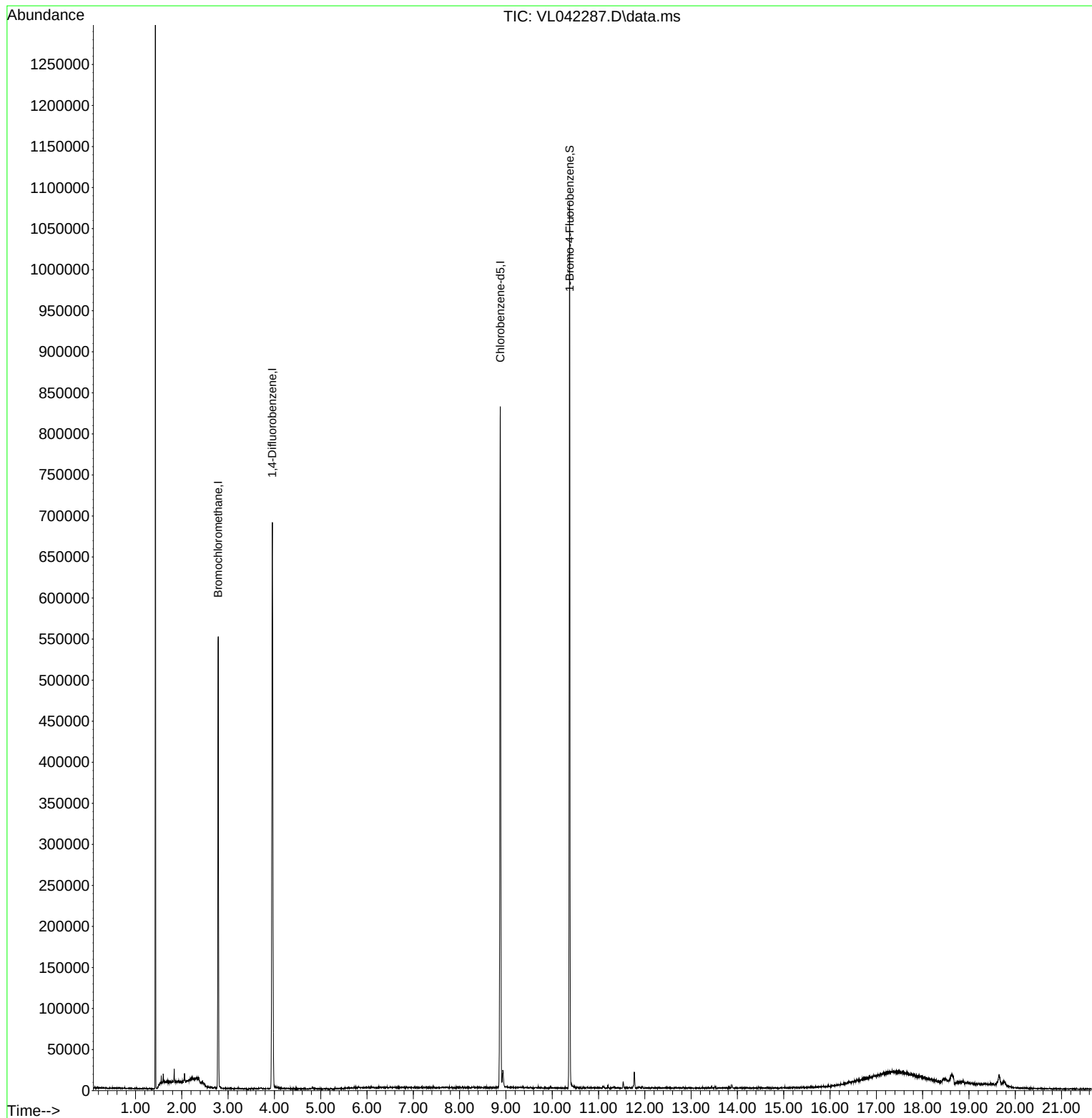
Target Compounds	Qvalue

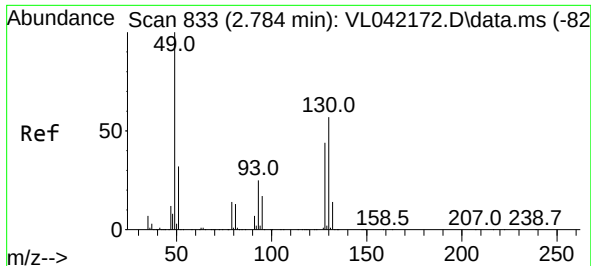
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
Data File : VL042287.D
Acq On : 09 Apr 2025 11:03
Operator : SY/MD
Sample : VL0409ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABL01

Quant Time: Apr 10 01:40:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

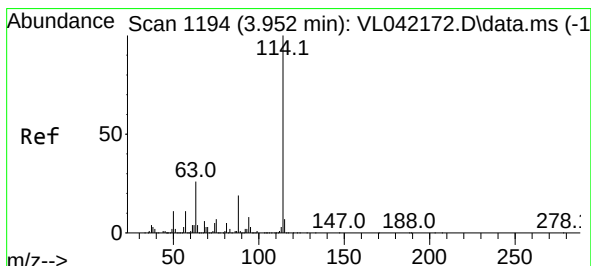
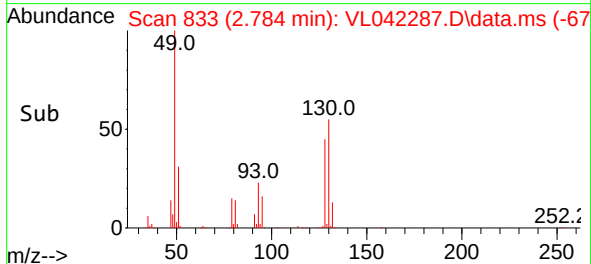
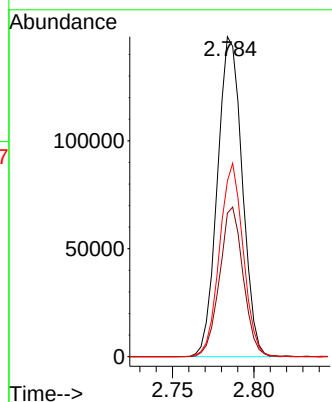
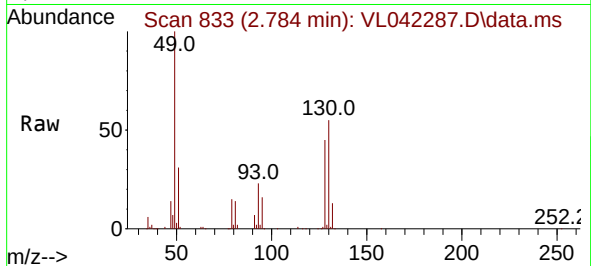




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042287.D
 Acq: 09 Apr 2025 11:03

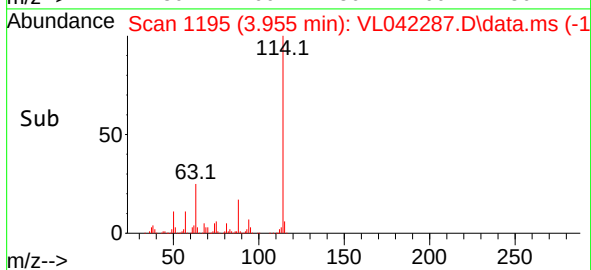
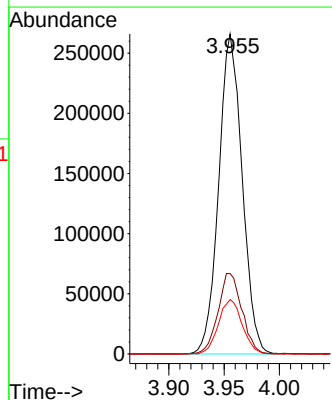
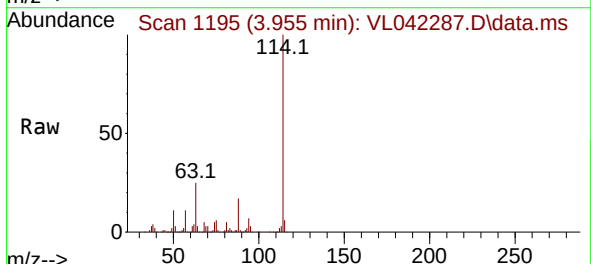
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0409ABL01

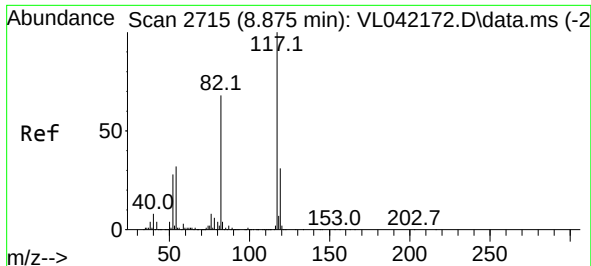
Tgt Ion: 49 Resp: 156784
 Ion Ratio Lower Upper
 49 100
 128 44.5 22.9 68.5
 130 57.7 28.8 86.4



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. 0.003 min
 Lab File: VL042287.D
 Acq: 09 Apr 2025 11:03

Tgt Ion: 114 Resp: 391570
 Ion Ratio Lower Upper
 114 100
 63 25.6 20.7 31.1
 88 17.2 15.0 22.4

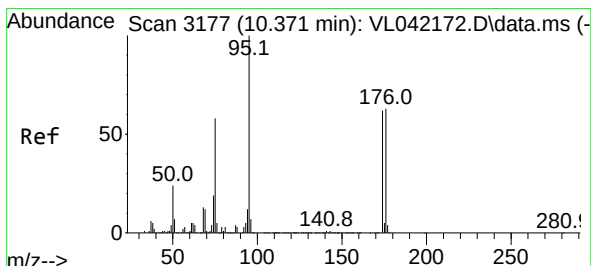
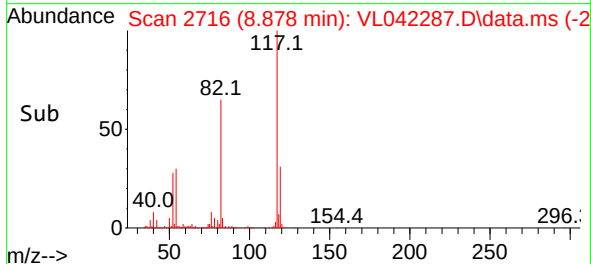
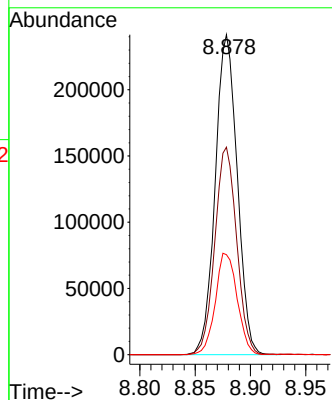
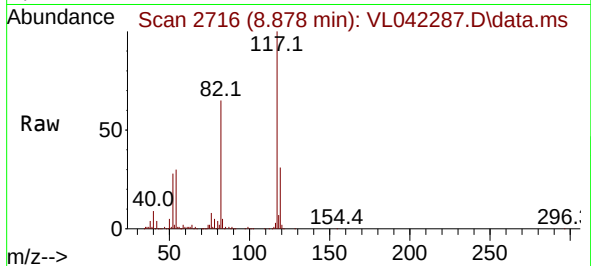




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042287.D
Acq: 09 Apr 2025 11:03

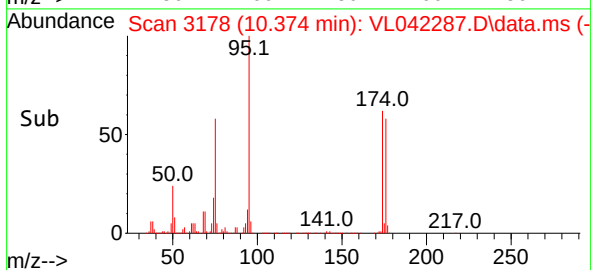
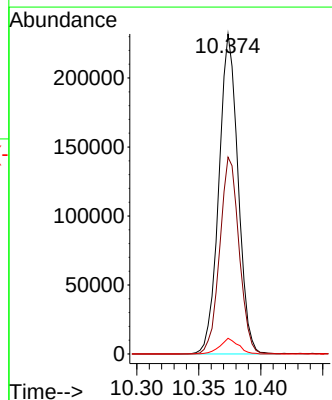
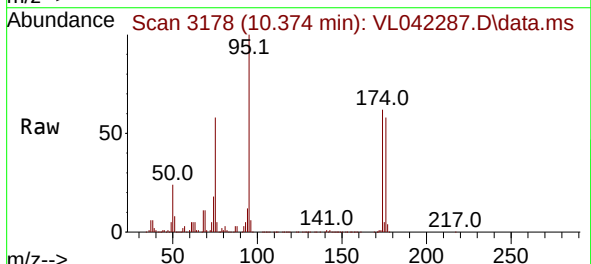
Instrument :
MSVOA_1
ClientSampleId :
VL0409ABL01

Tgt Ion:117 Resp: 334054
Ion Ratio Lower Upper
117 100
82 64.5 55.8 83.6
119 31.5 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.128 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042287.D
Acq: 09 Apr 2025 11:03

Tgt Ion: 95 Resp: 250420
Ion Ratio Lower Upper
95 100
174 62.0 50.6 76.0
175 4.7 3.8 5.6



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	777 Chestnut Ridge RD, Chestnut Ridge NY	Date Received:	
Client Sample ID:	VL0409ABS02	SDG No.:	Q1757
Lab Sample ID:	VL0409ABS02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042289.D	1		04/09/25 12:31	VL040925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	8.70	22.2		0.030	0.080	ug/m3
142-82-5	Heptane	9.70	39.8		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.90	35.3		0.56	1.98	ug/m3
110-82-7	Cyclohexane	9.40	32.4		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.70	38.5		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	8.90	48.6		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.7	50.0		0.47	2.34	ug/m3
71-43-2	Benzene	10.6	33.9		0.29	1.60	ug/m3
79-01-6	Trichloroethene	10.1	54.3		0.11	0.16	ug/m3
108-88-3	Toluene	9.90	37.3		0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	8.90	60.4		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	10.6	46.0		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	22.2	96.4		0.91	4.34	ug/m3
95-47-6	o-Xylene	11.0	47.8		0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.9	53.6		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.7	52.6		0.39	2.46	ug/m3
91-20-3	Naphthalene	11.3	59.2		0.42	0.52	ug/m3
110-54-3	Hexane	9.90	34.9		0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			65 - 135	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	161000		2.784			
540-36-3	1,4-Difluorobenzene	422000		3.952			
3114-55-4	Chlorobenzene-d5	368000		8.875			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042289.D
 Acq On : 09 Apr 2025 12:31
 Operator : SY/MD
 Sample : VL0409ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02

Quant Time: Apr 10 01:42:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	160536	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	421845	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	368487	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	288141	9.522	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	227351	9.592	ppbv	98
3) Chlorodifluoromethane	1.473	51	246719	10.189	ppbv	98
4) Chloromethane	1.531	50	94644	9.770	ppbv	99
5) Vinyl Chloride	1.577	62	89453	8.714	ppbv	95
6) Bromomethane	1.664	94	39433	8.983	ppbv	100
7) Chloroethane	1.703	64	35803	9.208	ppbv	97
8) Dichlorotetrafluoroethane	1.551	85	196779	9.748	ppbv	94
9) Propene	1.483	41	104428	9.409	ppbv	96
10) Heptane	4.972	43	285337	9.665	ppbv	99
11) Trichlorofluoromethane	1.874	101	219275	9.507	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	180430	9.518	ppbv	95
13) Ethanol	1.719	45	4753	4.530	ppbv	93
14) Bromoethene	1.780	108	64175	8.837	ppbv	98
15) Acetone	1.832	43	200151	8.915	ppbv	96
16) 1,3-Butadiene	1.606	39	93954	8.569	ppbv	99
17) tert-Butyl alcohol	2.039	59	231293	8.271	ppbv	98
18) 1,1-Dichloroethene	2.030	96	78979	8.912	ppbv	96
19) Isopropyl Alcohol	1.884	45	111918	8.835	ppbv	96
20) Methylene Chloride	2.059	84	70611	8.444	ppbv	95
21) Allyl Chloride	2.094	41	147389	9.308	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	89877	8.775	ppbv	94
23) Vinyl Acetate	2.460	43	85028	8.750	ppbv	97
24) 1,1-Dichloroethane	2.405	63	184801	9.733	ppbv	99
25) Ethyl Acetate	2.832	43	590692	10.137	ppbv	98
26) Hexane	2.823	57	223800	9.943	ppbv	98
27) Carbon Disulfide	2.146	76	223675	9.267	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	119034	8.494	ppbv	97
29) Chloroform	2.845	83	341042	10.353	ppbv	99
30) Cyclohexane	3.852	84	182880	9.357	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	221881	9.710	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	336493	8.923	ppbv	97
34) 2-Butanone	2.554	43	334636	10.940	ppbv	98
35) Carbon Tetrachloride	3.758	117	343376	10.420	ppbv	97
36) Benzene	3.651	78	442736	10.586	ppbv	98
37) 1,2-Dichloroethane	3.214	62	262528	10.965	ppbv	100
38) Trichloroethene	4.541	130	176435	10.111	ppbv	98
39) 1,2-Dichloropropane	4.308	63	161101	10.578	ppbv	97
40) 1,4-Dioxane	4.574	88	76321	9.441	ppbv #	97
41) Tetrahydrofuran	3.049	42	187790	10.661	ppbv	96
42) Bromodichloromethane	4.483	83	360662	10.927	ppbv	100
43) Methyl Methacrylate	4.875	69	165984	9.375	ppbv	98
44) 2,2,4-Trimethylpentane	4.632	57	757855	10.723	ppbv	98
45) t-1,3-Dichloropropene	6.406	75	161245	8.489	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042289.D
 Acq On : 09 Apr 2025 12:31
 Operator : SY/MD
 Sample : VL0409ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:42:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

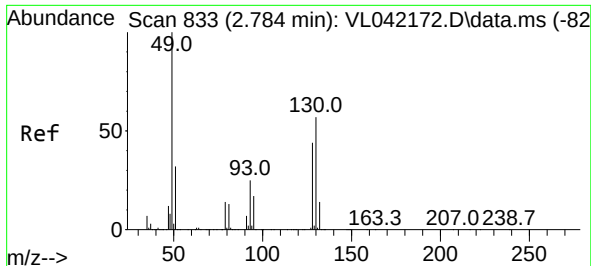
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

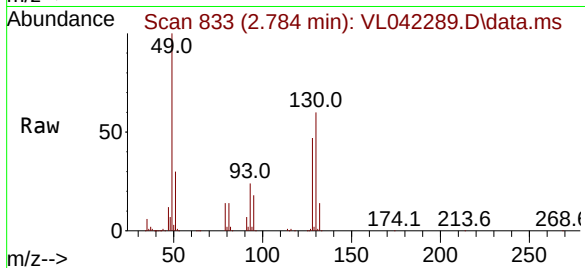
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	213566	9.172	ppbv	98
47) 1,1,2-Trichloroethane	6.574	97	173506	10.777	ppbv	99
48) Dibromochloromethane	7.380	129	286938	10.516	ppbv	100
49) Bromoform	9.477	173	254430	10.386	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	463069	9.552	ppbv	96
51) 2-Hexanone	7.428	43	364946	9.168	ppbv #	96
52) Tetrachloroethene	8.218	164	148369	8.946	ppbv	94
53) Toluene	6.927	91	490916	9.903	ppbv	99
54) 1,2-Dibromoethane	7.648	107	238091	10.608	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	232553	11.465	ppbv	100
57) Chlorobenzene	8.914	112	397485	11.372	ppbv	93
58) Ethyl Benzene	9.351	91	695035	10.619	ppbv	98
59) m/p-Xylene	9.548	91	1162331m	22.239	ppbv	
60) o-Xylene	9.959	91	574256	10.960	ppbv	97
61) Styrene	9.866	104	258350	9.967	ppbv	99
62) Isopropylbenzene	10.536	105	864354	11.032	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	377007	11.843	ppbv	99
64) n-propylbenzene	10.985	120	228525	11.331	ppbv	99
65) tert-Butylbenzene	11.529	119	790461	10.909	ppbv	99
66) Benzyl Chloride	11.613	91	58131	7.561	ppbv	97
67) sec-Butylbenzene	11.765	105	1124096	11.161	ppbv	99
69) p-Isopropyltoluene	11.924	119	950025	10.954	ppbv	99
70) n-Butylbenzene	12.280	91	986632	11.124	ppbv	99
71) 2-Chlorotoluene	10.898	91	660346	10.859	ppbv	99
72) 4-Ethyltoluene	11.121	105	726883	11.142	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	618219	10.851	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	702287	10.699	ppbv #	84
75) 1,3-Dichlorobenzene	11.604	146	419165	11.644	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	417746	11.660	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	415780	11.862	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	331886	9.302	ppbv	99
79) Naphthalene	13.510	128	810441	11.288	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	388095	11.023	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	357711	10.802	ppbv	99

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



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

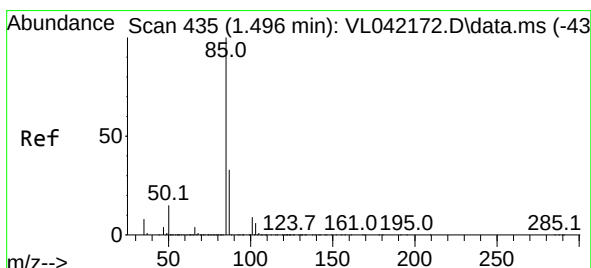
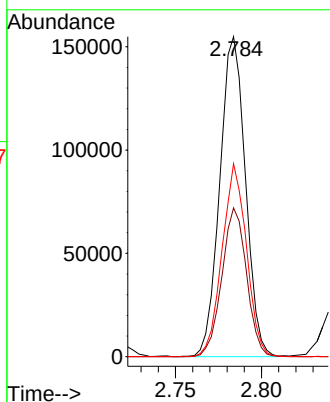
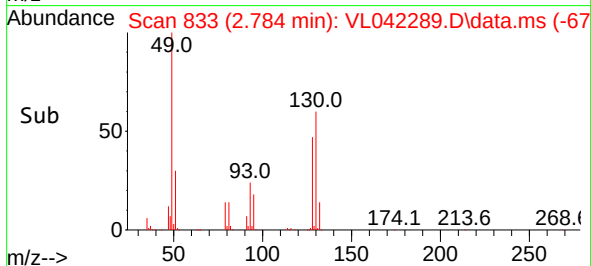
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



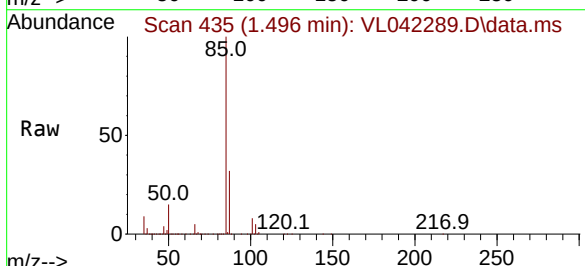
Tgt Ion: 49 Resp: 160530
 Ion Ratio Lower Upper
 49 100
 128 44.7 22.9 68.5
 130 57.4 28.8 86.4

Manual Integrations
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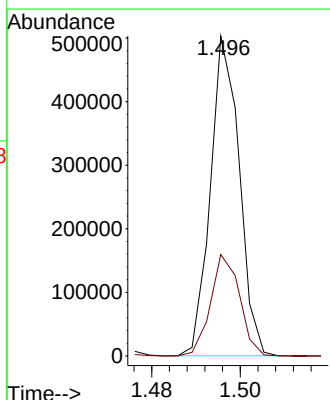
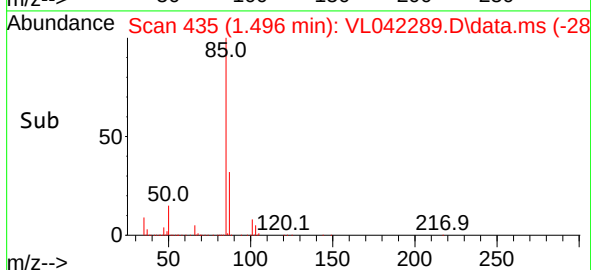
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

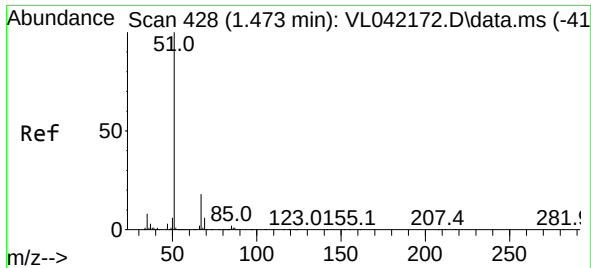


#2
 Dichlorodifluoromethane
 Concen: 9.592 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31



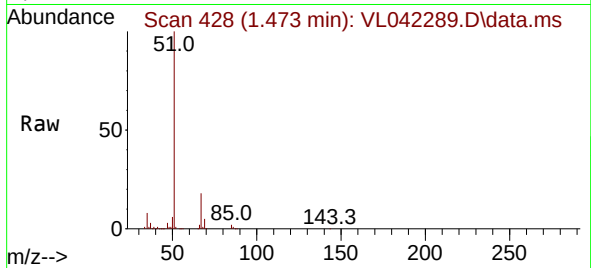
Tgt Ion: 85 Resp: 227351
 Ion Ratio Lower Upper
 85 100
 87 31.7 26.1 39.1





#3
Chlorodifluoromethane
Concen: 10.189 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

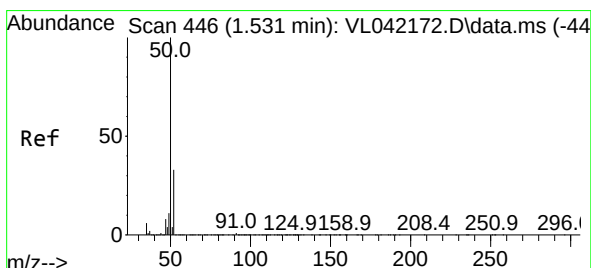
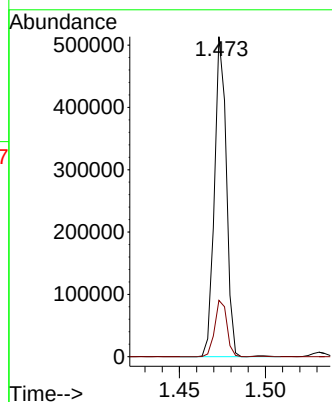
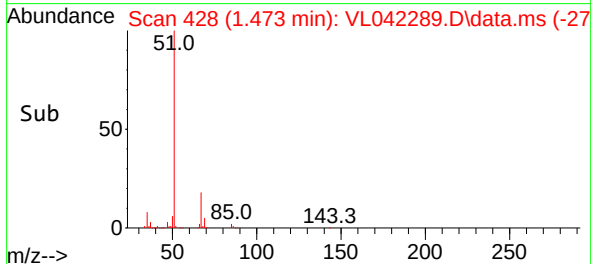
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



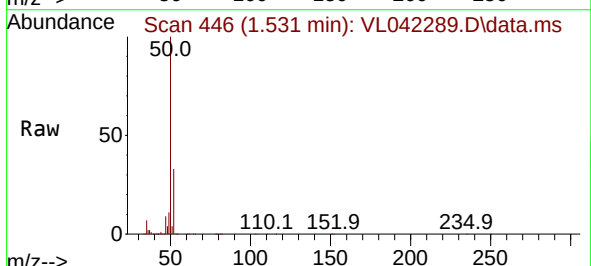
Tgt Ion: 51 Resp: 246719
Ion Ratio Lower Upper
51 100
67 18.1 15.0 22.6

Manual Integrations
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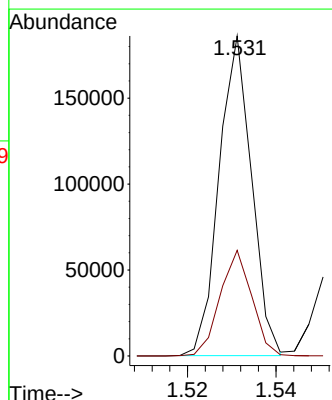
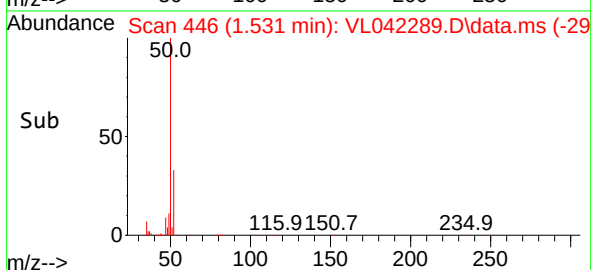
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

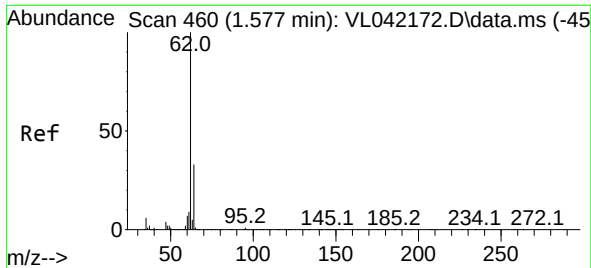


#4
Chloromethane
Concen: 9.770 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion: 50 Resp: 94644
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1





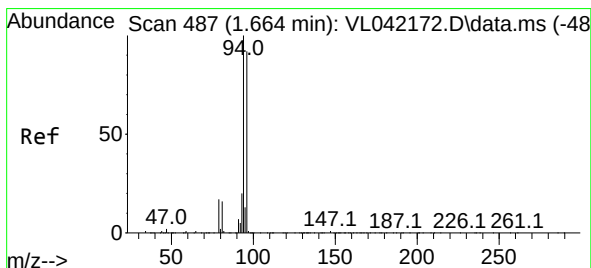
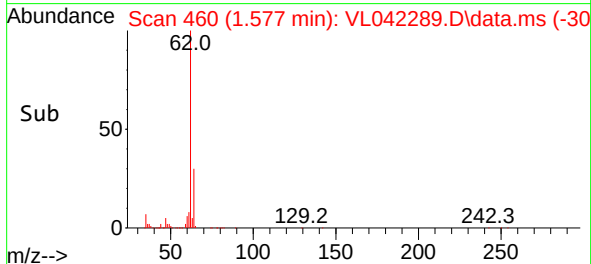
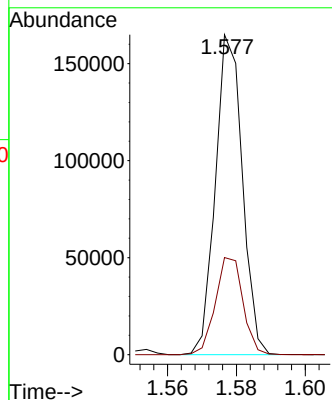
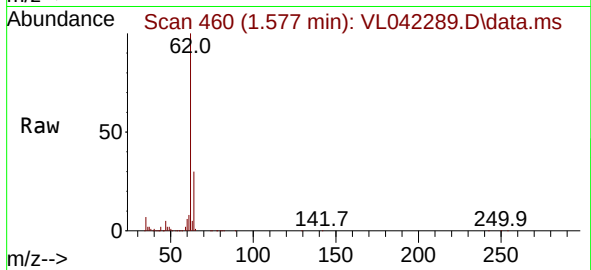
#5
 Vinyl Chloride
 Concen: 8.714 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02

Tgt Ion: 62 Resp: 8945
 Ion Ratio Lower Upper
 62 100
 64 30.3 26.6 40.0

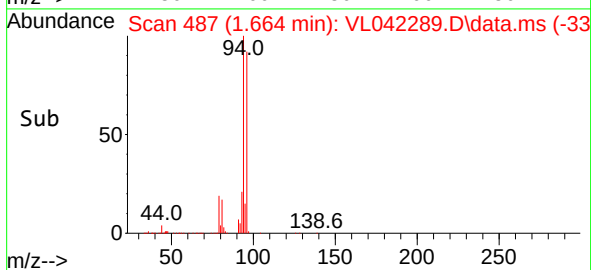
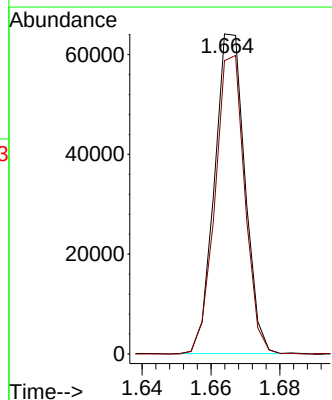
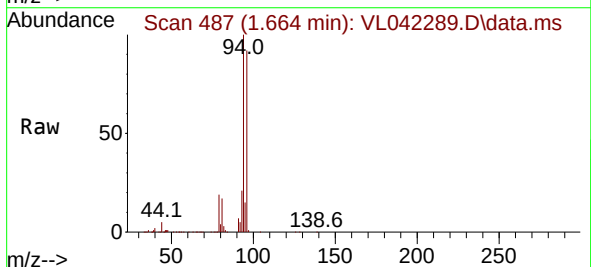
Manual Integrations
 APPROVED

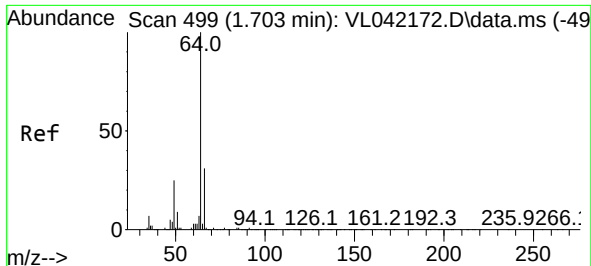
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#6
 Bromomethane
 Concen: 8.983 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

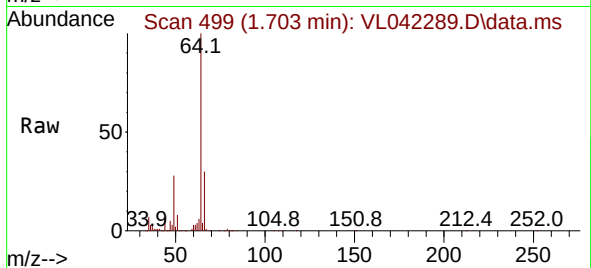
Tgt Ion: 94 Resp: 39433
 Ion Ratio Lower Upper
 94 100
 96 91.7 73.1 109.7





#7
Chloroethane
Concen: 9.208 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

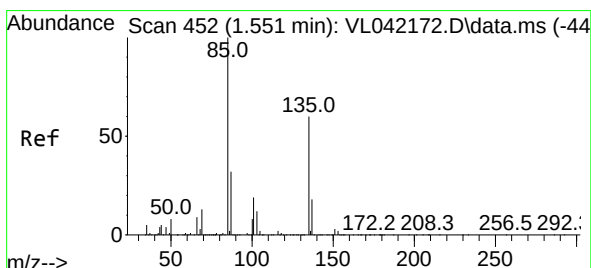
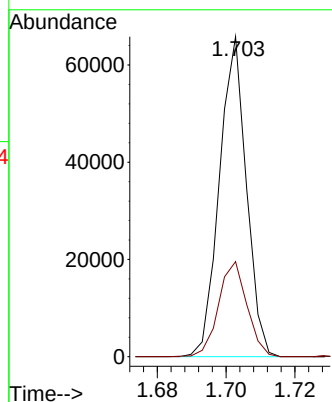
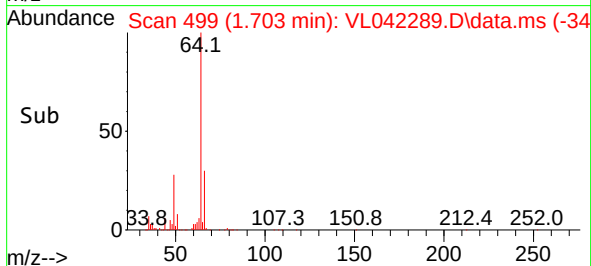
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



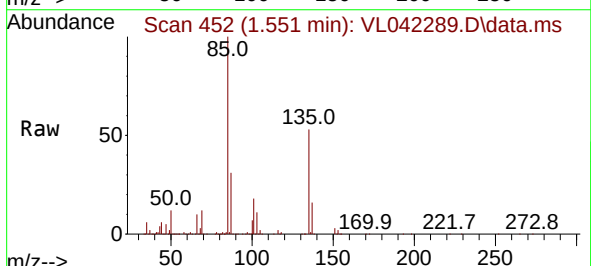
Tgt Ion: 64 Resp: 3580
Ion Ratio Lower Upper
64 100
66 29.7 25.2 37.8

Manual Integrations
APPROVED

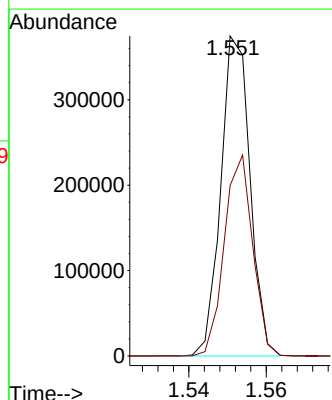
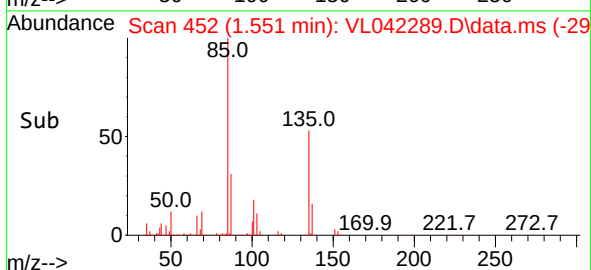
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

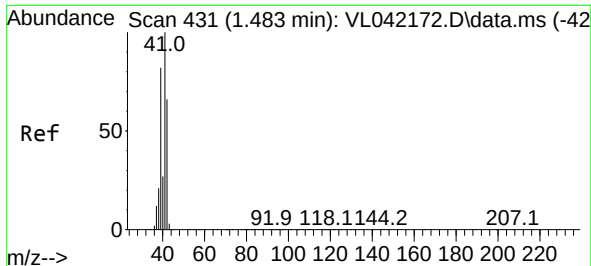


#8
Dichlorotetrafluoroethane
Concen: 9.748 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



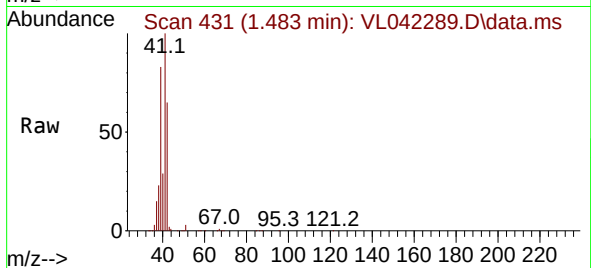
Tgt Ion: 85 Resp: 196779
Ion Ratio Lower Upper
85 100
135 61.1 52.4 78.6





#9
Propene
Concen: 9.409 ppbv
RT: 1.483 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

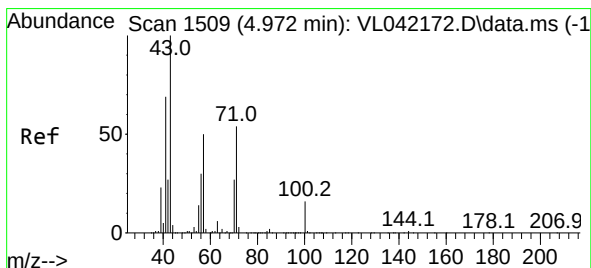
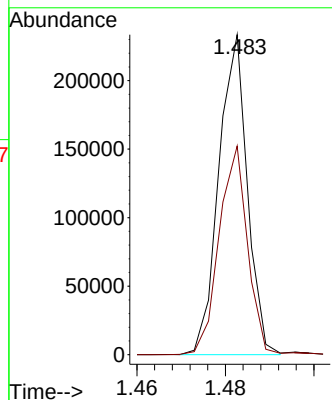
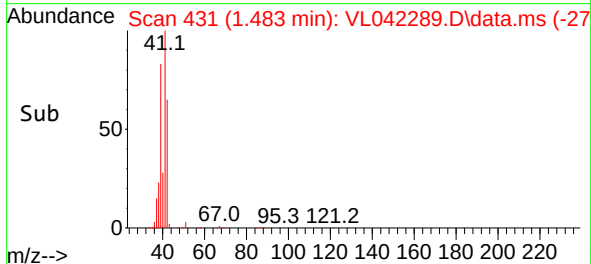
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



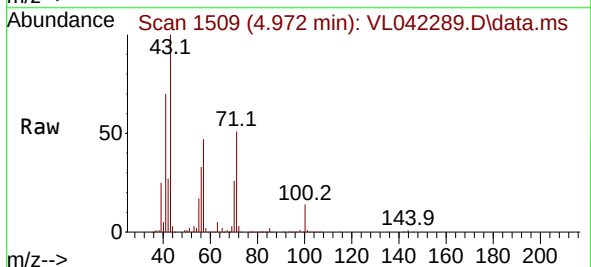
Tgt Ion: 41 Resp: 104428
Ion Ratio Lower Upper
41 100
42 65.8 55.4 83.2

Manual Integrations
APPROVED

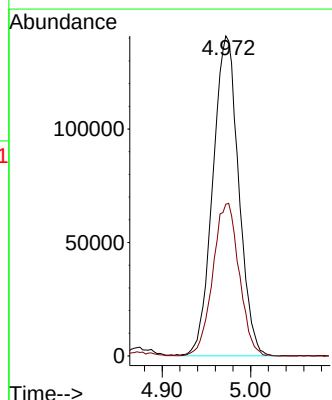
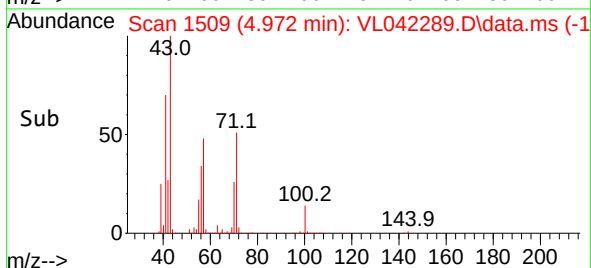
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

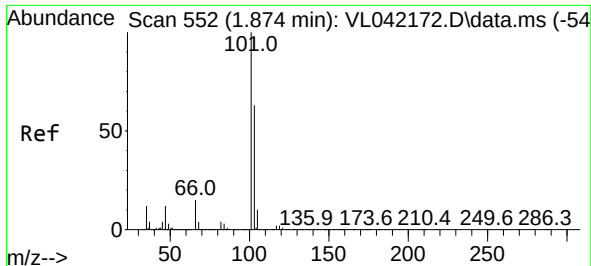


#10
Heptane
Concen: 9.665 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



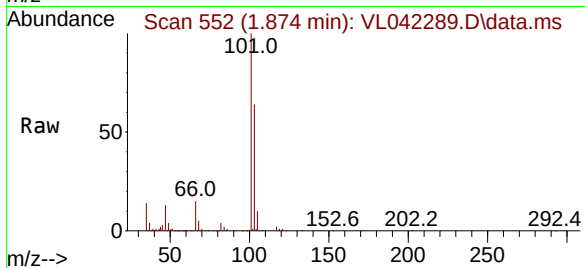
Tgt Ion: 43 Resp: 285337
Ion Ratio Lower Upper
43 100
57 48.7 39.4 59.2





#11
 Trichlorofluoromethane
 Concen: 9.507 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

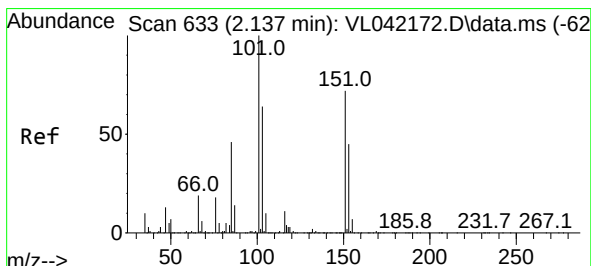
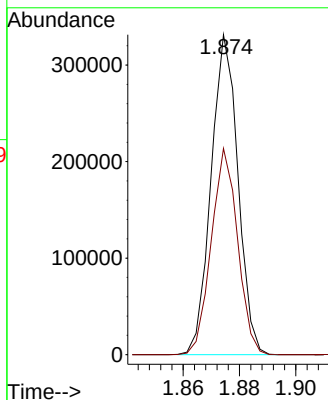
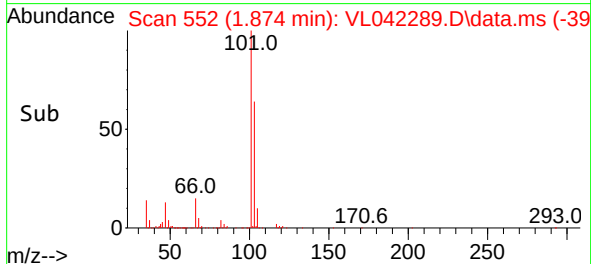
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 VL0409ABS02



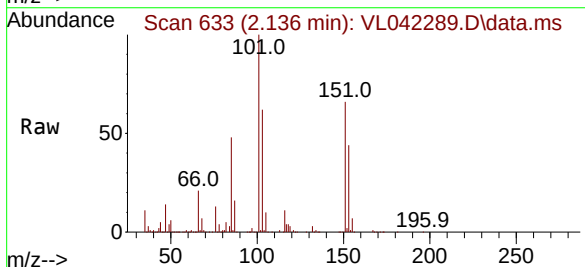
Tgt Ion:101 Resp: 219275
 Ion Ratio Lower Upper
 101 100
 103 64.5 50.2 75.2

Manual Integrations
 APPROVED

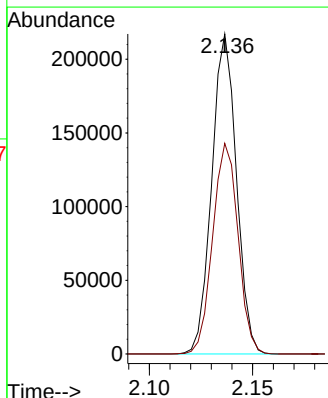
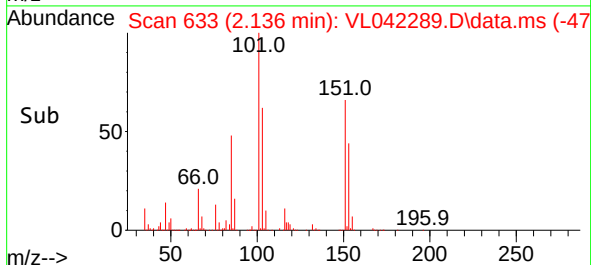
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

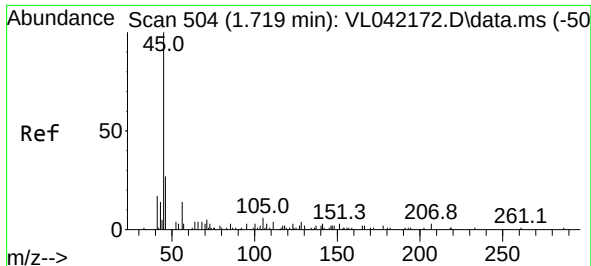


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.518 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31



Tgt Ion:101 Resp: 180430
 Ion Ratio Lower Upper
 101 100
 151 67.6 57.1 85.7





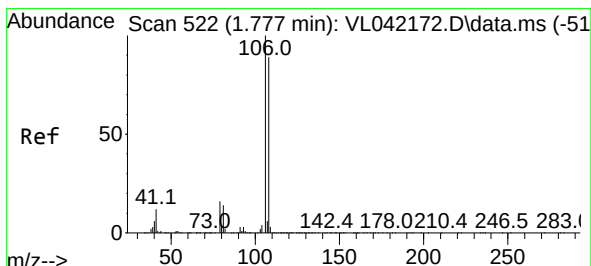
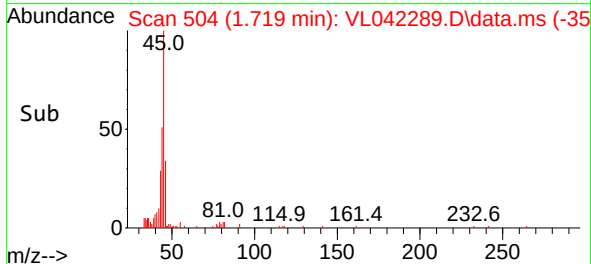
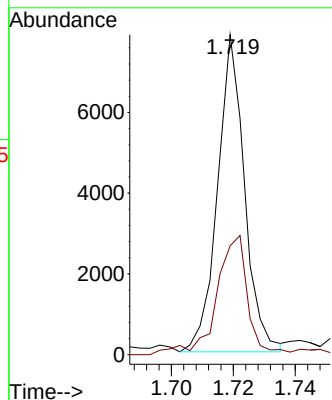
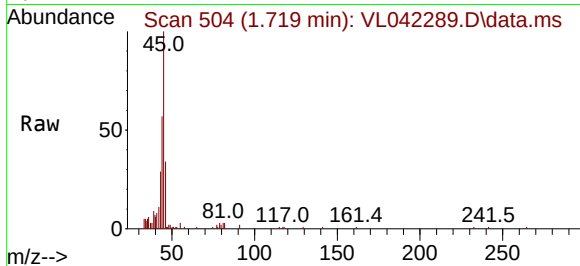
#13
Ethanol
Concen: 4.530 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion: 45 Resp: 475
Ion Ratio Lower Upper
45 100
46 45.9 20.2 80.8

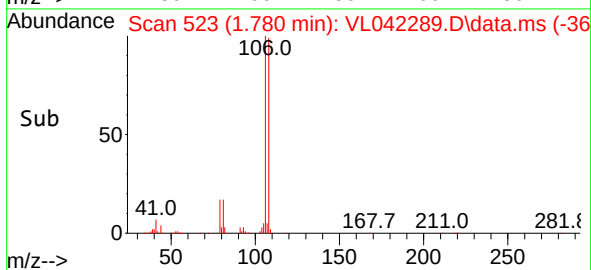
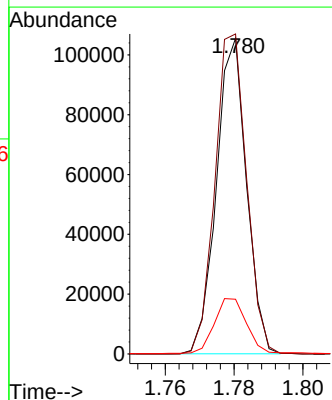
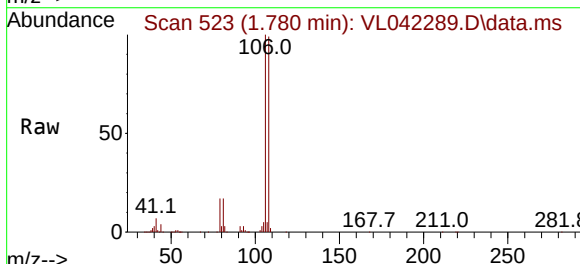
Manual Integrations
APPROVED

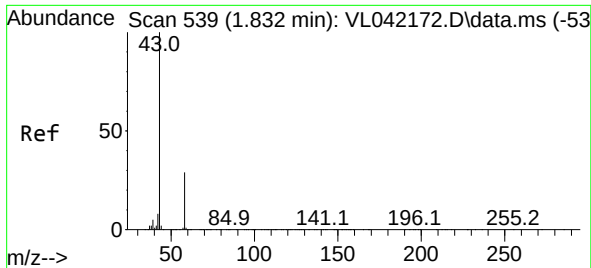
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#14
Bromoethene
Concen: 8.837 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:108 Resp: 64175
Ion Ratio Lower Upper
108 100
106 106.5 86.8 130.2
79 20.4 15.0 22.6





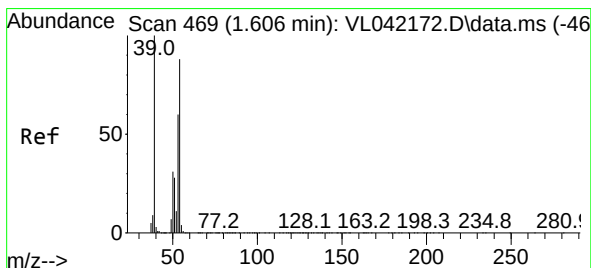
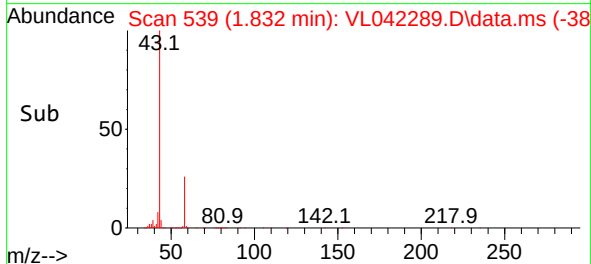
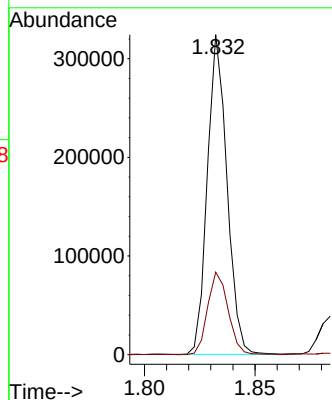
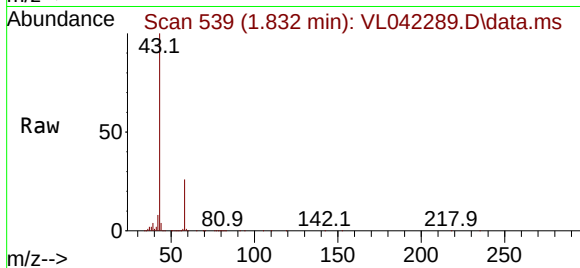
#15
Acetone
Concen: 8.915 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion: 43 Resp: 20015
Ion Ratio Lower Upper
43 100
58 27.1 23.2 34.8

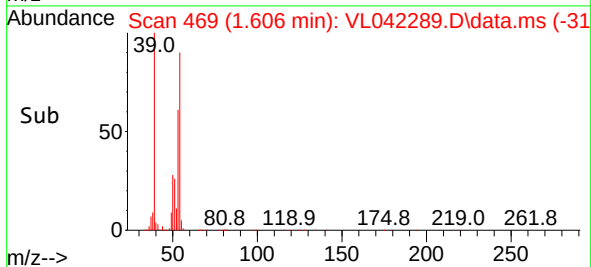
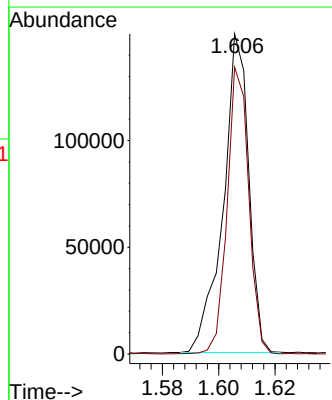
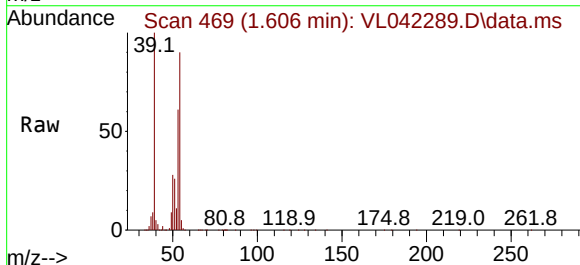
Manual Integrations
APPROVED

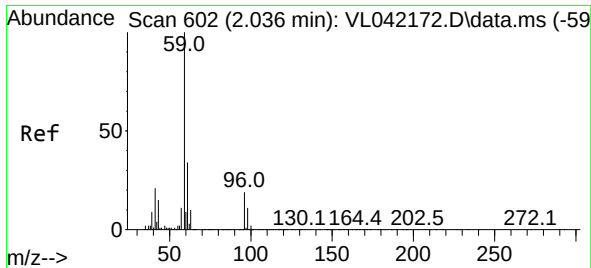
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#16
1,3-Butadiene
Concen: 8.569 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 39 Resp: 93954
Ion Ratio Lower Upper
39 100
54 76.4 60.7 91.1





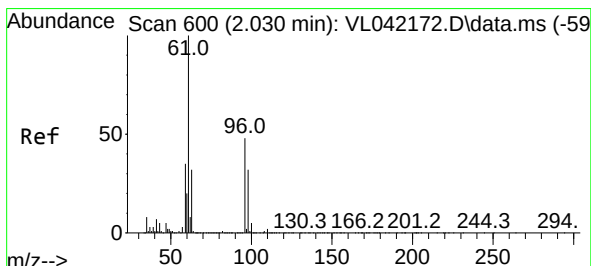
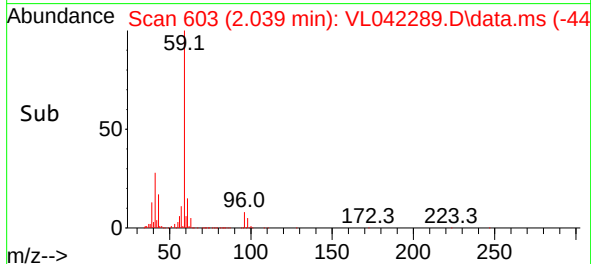
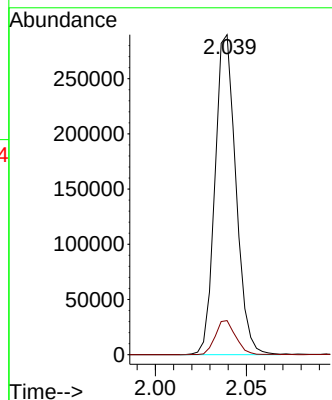
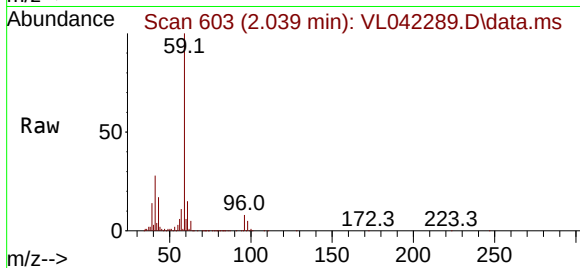
#17
tert-Butyl alcohol
Concen: 8.271 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion: 59 Resp: 23129
Ion Ratio Lower Upper
59 100
57 10.5 8.9 13.3

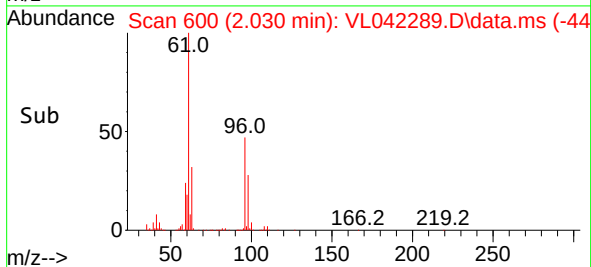
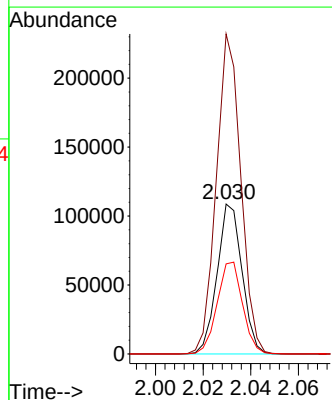
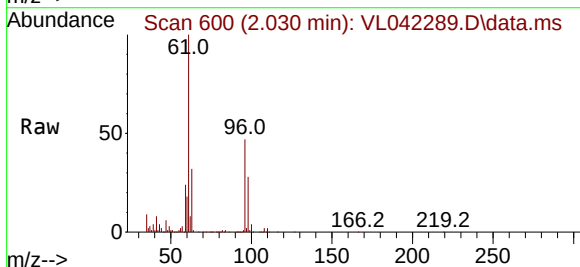
Manual Integrations
APPROVED

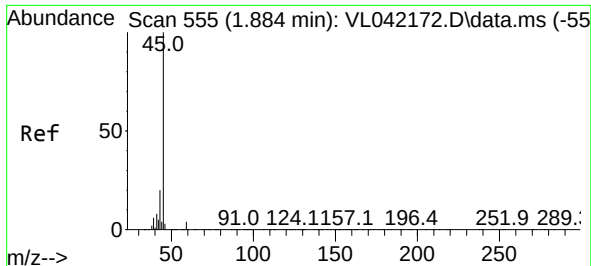
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#18
1,1-Dichloroethene
Concen: 8.912 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

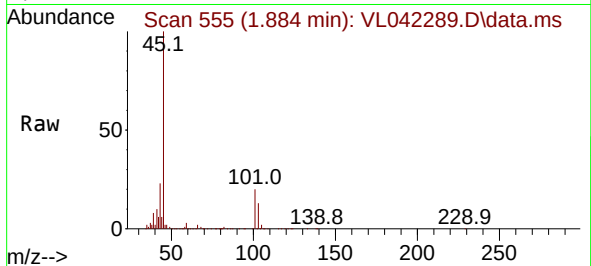
Tgt Ion: 96 Resp: 78979
Ion Ratio Lower Upper
96 100
61 213.3 167.6 251.4
98 60.0 53.5 80.3





#19
Isopropyl Alcohol
Concen: 8.835 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

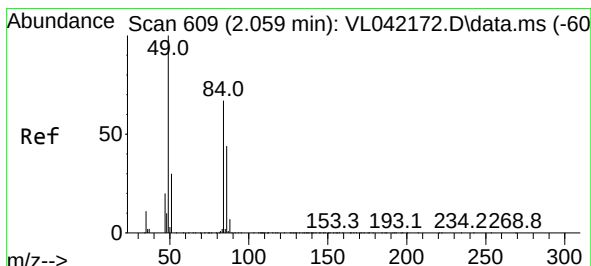
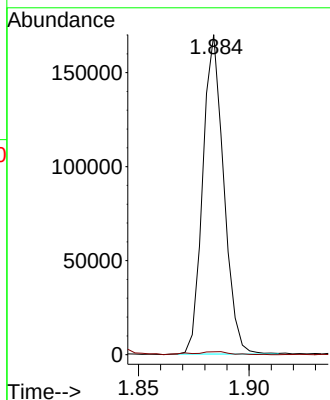
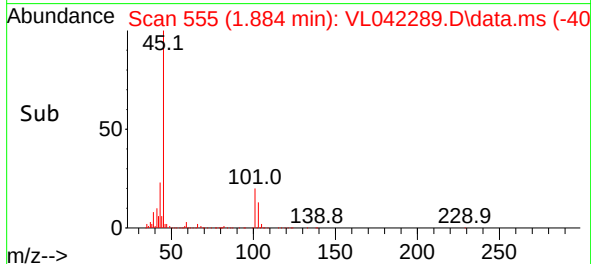
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



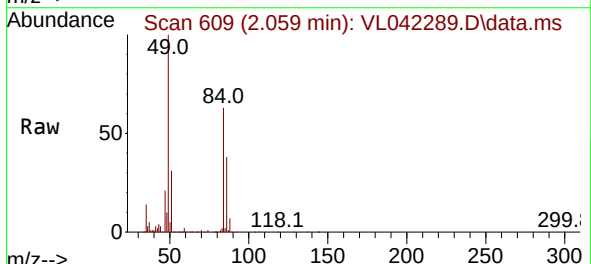
Tgt Ion: 45 Resp: 111918
Ion Ratio Lower Upper
45 100
58 48.5 36.9 55.3

Manual Integrations
APPROVED

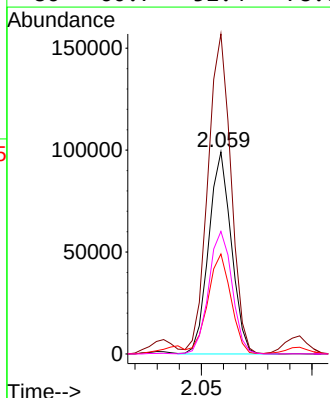
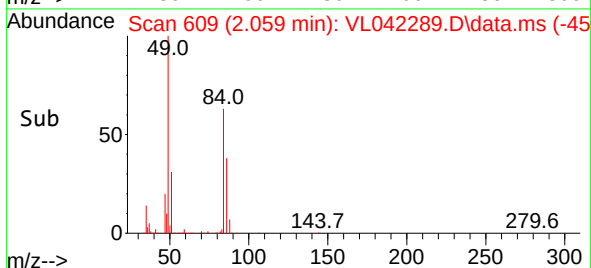
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

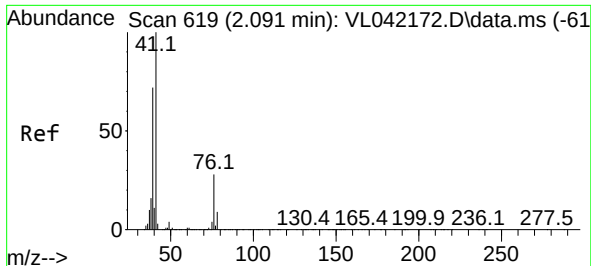


#20
Methylene Chloride
Concen: 8.444 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion: 84 Resp: 70611
Ion Ratio Lower Upper
84 100
49 156.0 120.2 180.4
51 48.6 37.4 56.0
86 60.7 52.4 78.6





#21
 Allyl Chloride
 Concen: 9.308 ppbv
 RT: 2.094 min Scan# 619
 Delta R.T. 0.003 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

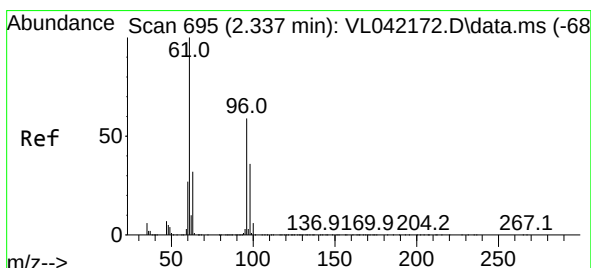
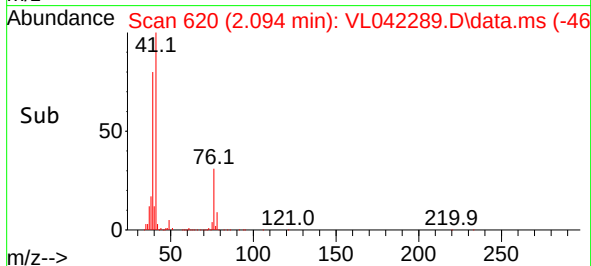
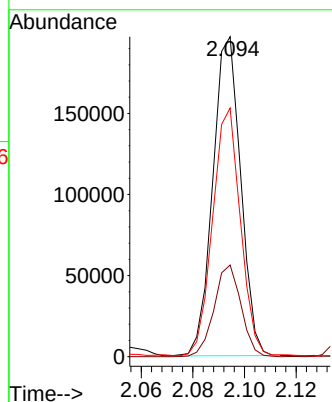
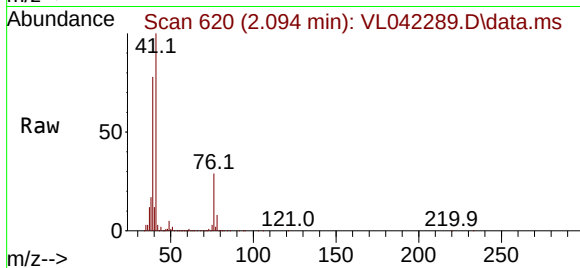
VL0409ABS02

Tgt Ion: 41 Resp: 147389
 Ion Ratio Lower Upper
 41 100
 76 27.7 24.1 36.1
 39 77.7 61.1 91.7

Manual Integrations

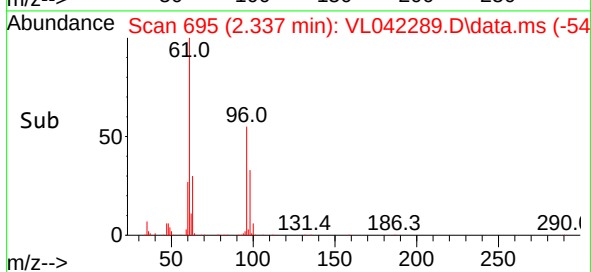
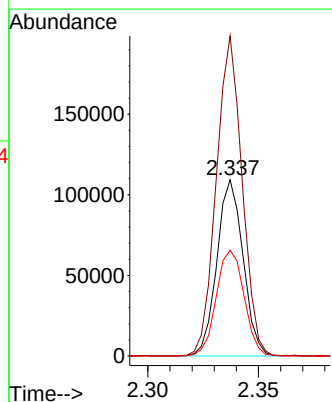
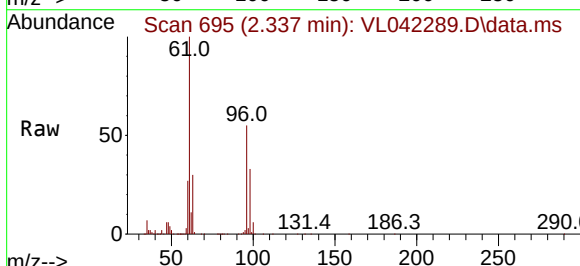
APPROVED

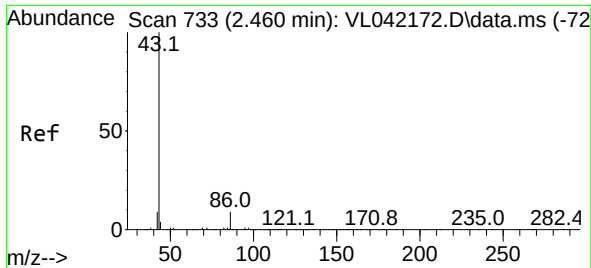
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.775 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

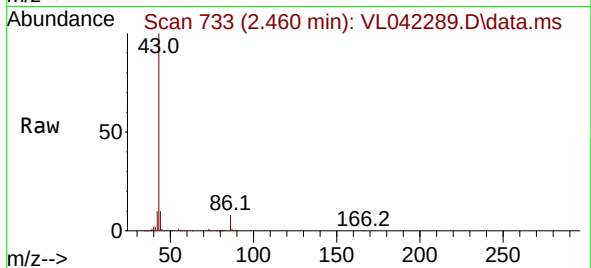
Tgt Ion: 96 Resp: 89877
 Ion Ratio Lower Upper
 96 100
 61 181.6 136.6 204.8
 98 60.0 49.4 74.2





#23
 Vinyl Acetate
 Concen: 8.750 ppbv
 RT: 2.460 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

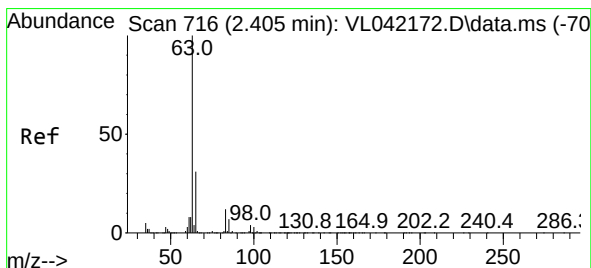
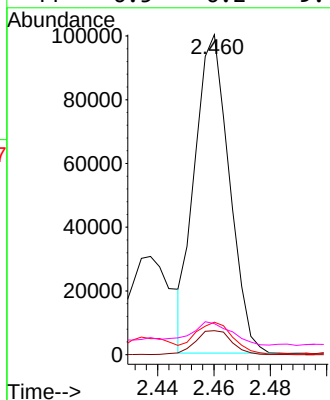
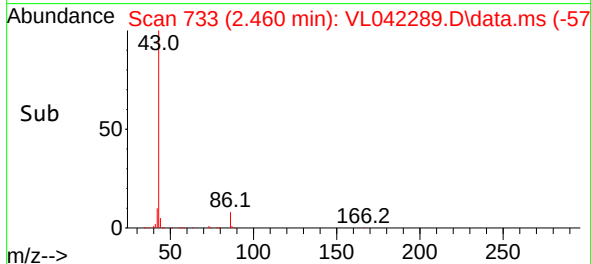
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



Tgt Ion:	43	Resp:	85028
Ion	Ratio	Lower	Upper
43	100		
86	7.5	5.5	8.3
42	9.9	8.6	13.0
44	6.5	6.2	9.4

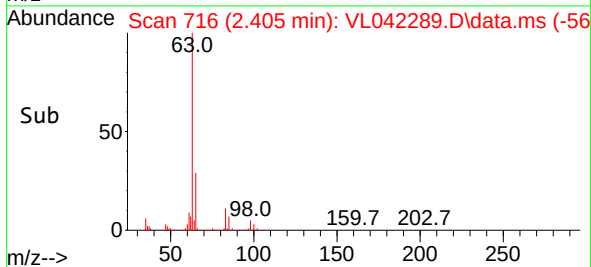
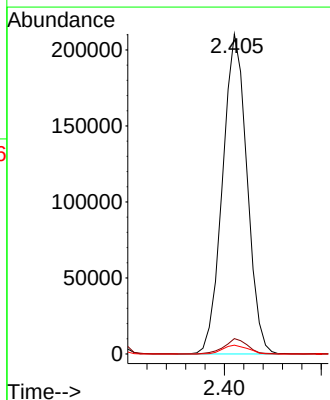
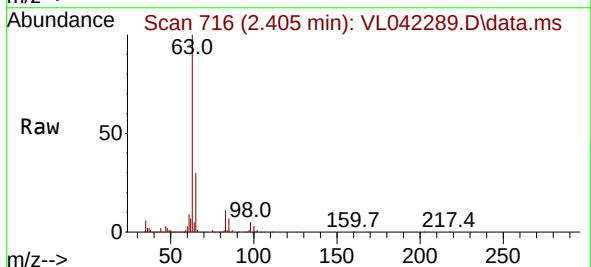
Manual Integrations
 APPROVED

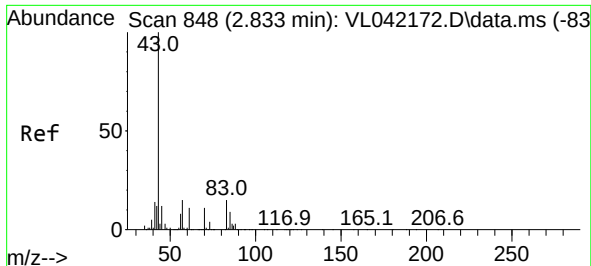
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#24
 1,1-Dichloroethane
 Concen: 9.733 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Tgt Ion:	63	Resp:	184801
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.3	6.8
100	2.8	1.6	4.7





#25

Ethyl Acetate

Concen: 10.137 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0409ABS02

Tgt Ion: 43 Resp: 590692

Ion Ratio Lower Upper

43 100

45 10.0 8.2 12.2

61 8.7 7.3 10.9

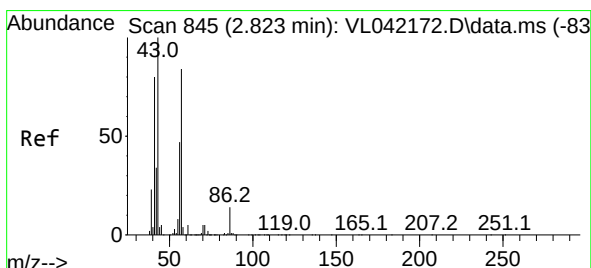
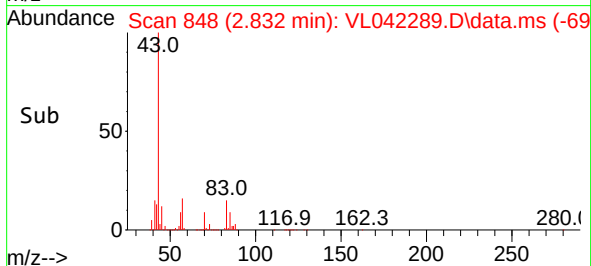
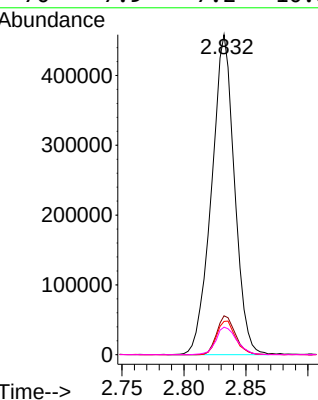
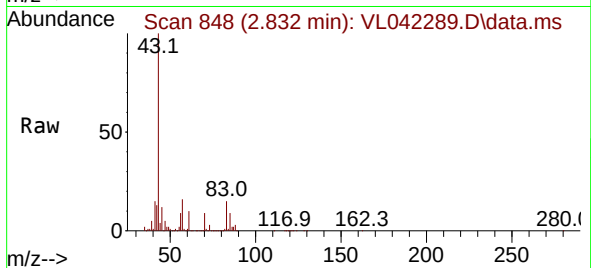
70 7.9 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#26

Hexane

Concen: 9.943 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Tgt Ion: 57 Resp: 223800

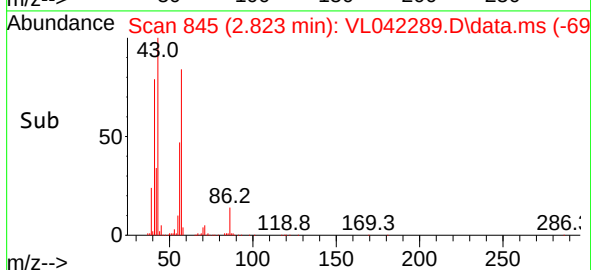
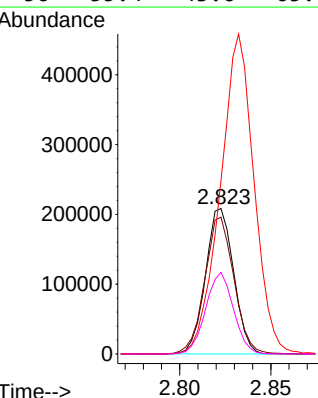
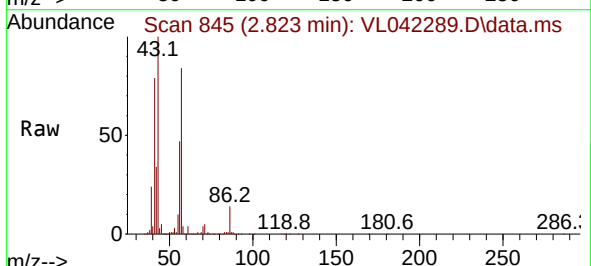
Ion Ratio Lower Upper

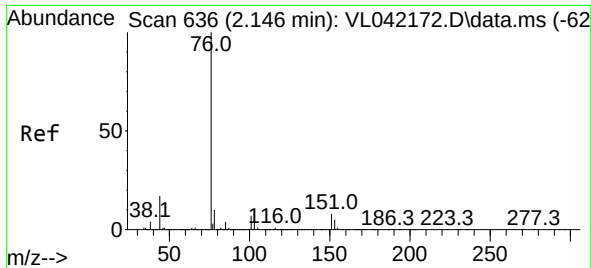
57 100

41 97.7 76.6 114.8

43 264.7 207.8 311.8

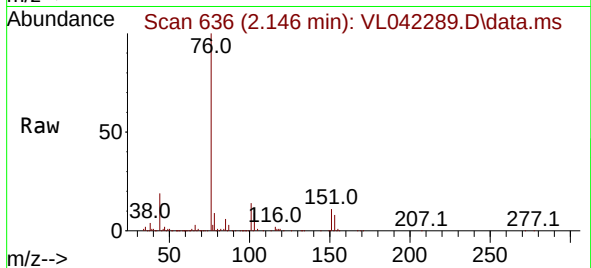
56 55.4 43.6 65.4





#27
Carbon Disulfide
Concen: 9.267 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

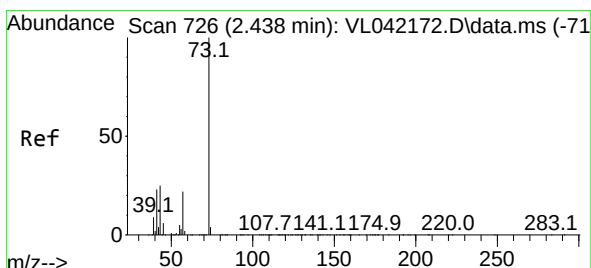
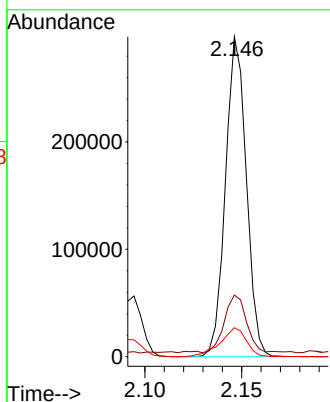
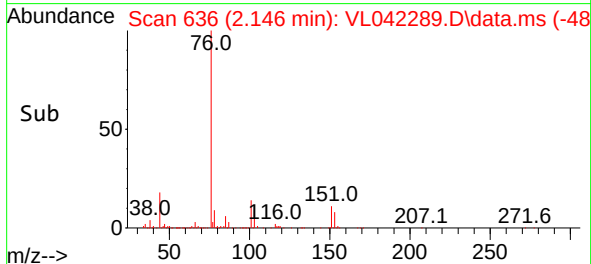
Instrument : MSVOA_L
ClientSampleId : VL0409ABS02



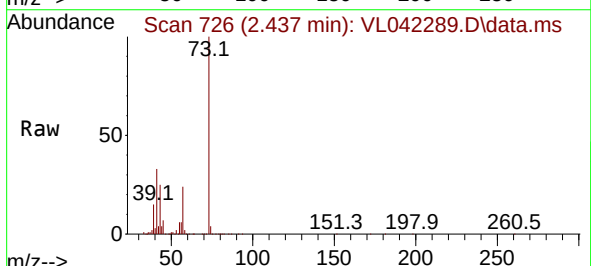
Tgt Ion: 76 Resp: 223679
Ion Ratio Lower Upper
76 100
44 19.6 14.7 22.1
78 11.3 9.3 13.9

Manual Integrations
APPROVED

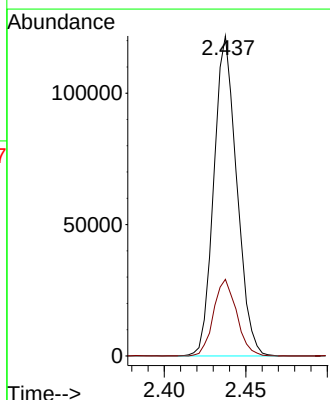
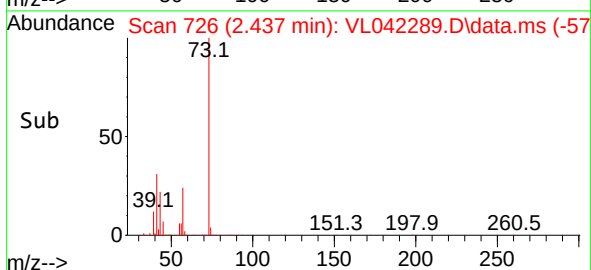
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

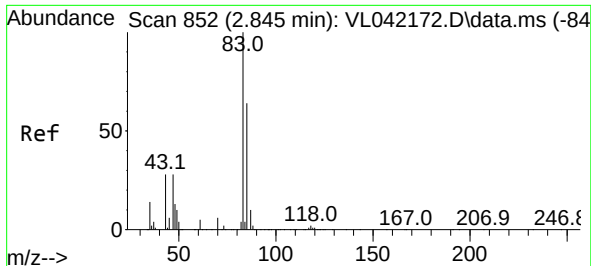


#28
Methyl tert-Butyl Ether
Concen: 8.494 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion: 73 Resp: 119034
Ion Ratio Lower Upper
73 100
57 24.2 20.5 30.7





#29

Chloroform

Concen: 10.353 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0409ABS02

Tgt Ion: 83 Resp: 34104

Ion Ratio Lower Upper

83 100

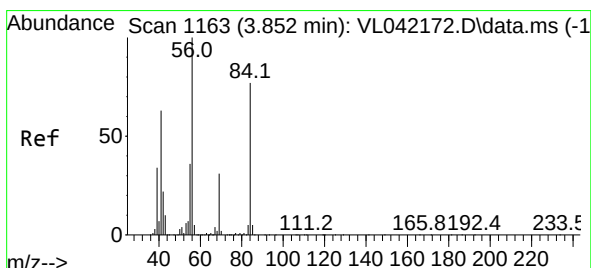
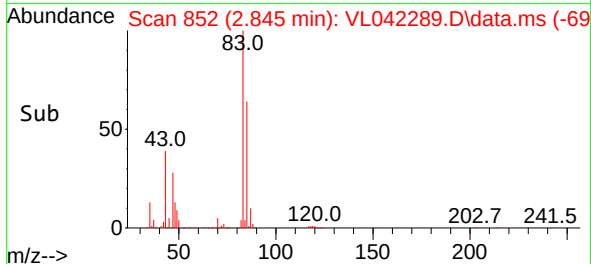
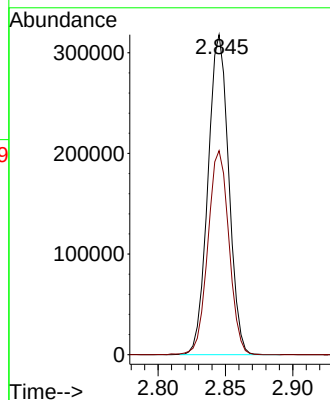
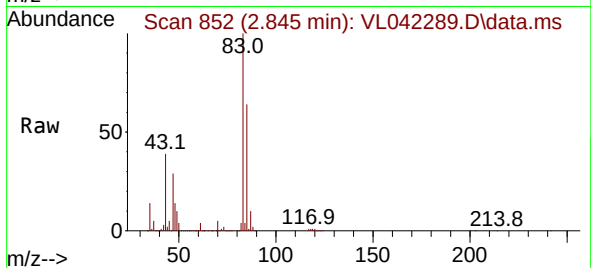
85 63.8 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#30

Cyclohexane

Concen: 9.357 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

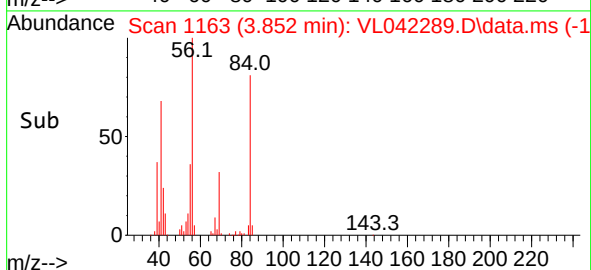
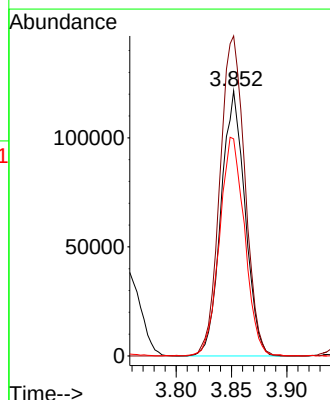
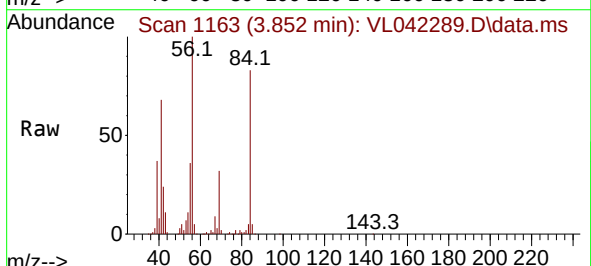
Tgt Ion: 84 Resp: 182880

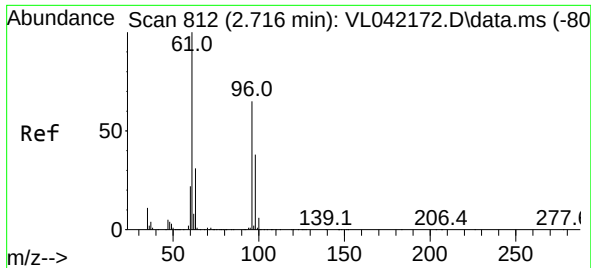
Ion Ratio Lower Upper

84 100

56 125.8 102.8 154.2

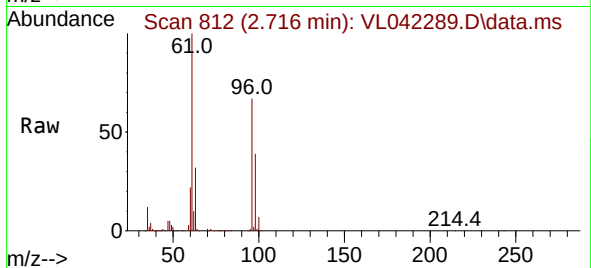
41 86.5 66.5 99.7





#31
 cis-1,2-Dichloroethene
 Concen: 9.710 ppbv
 RT: 2.716 min Scan# 812
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

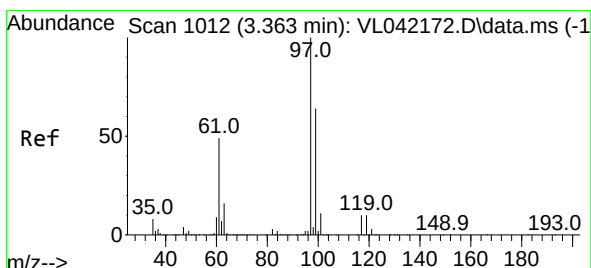
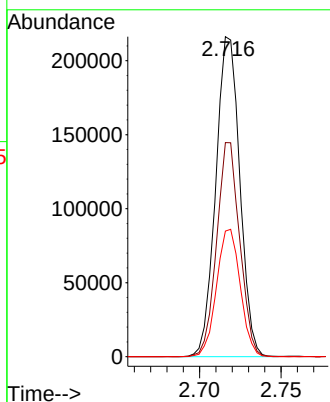
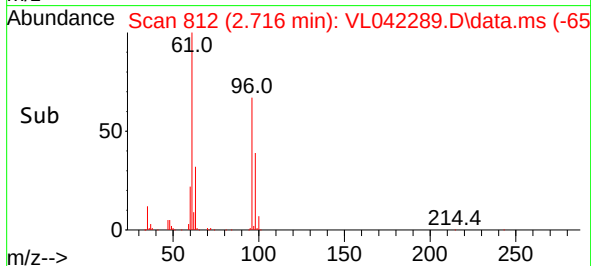
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



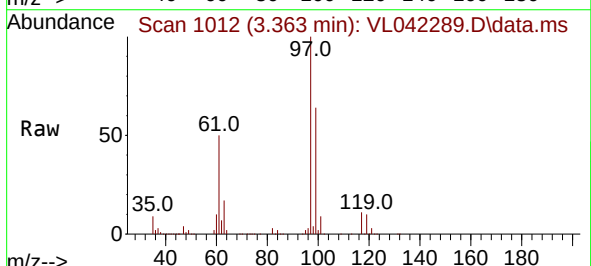
Tgt Ion: 61 Resp: 22188
 Ion Ratio Lower Upper
 61 100
 96 66.9 51.8 77.8
 98 39.2 30.6 46.0

Manual Integrations
 APPROVED

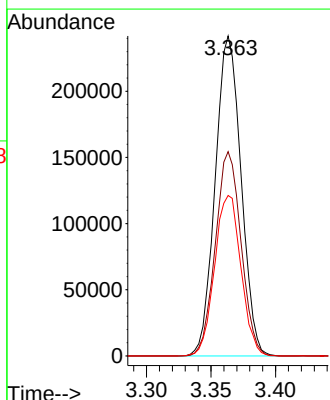
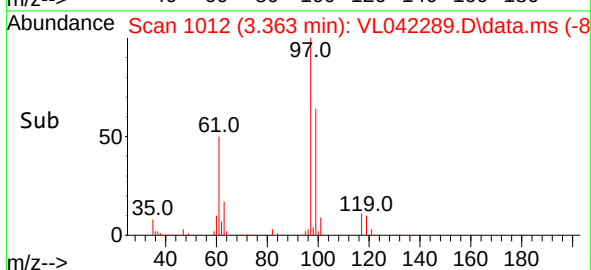
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

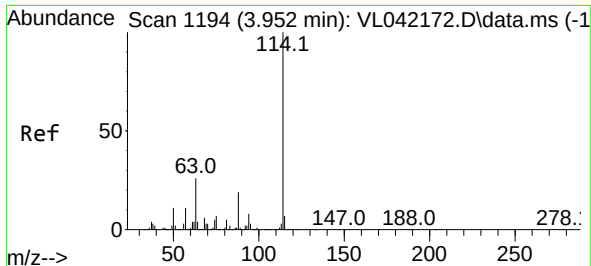


#32
 1,1,1-Trichloroethane
 Concen: 8.923 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31



Tgt Ion: 97 Resp: 336493
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.5 77.3
 61 51.2 38.7 58.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

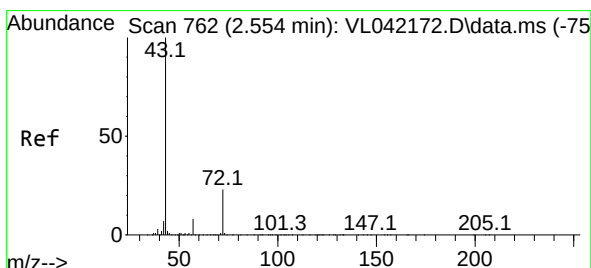
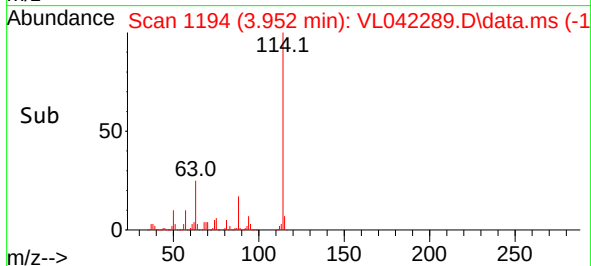
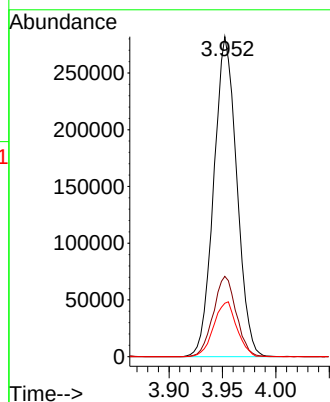
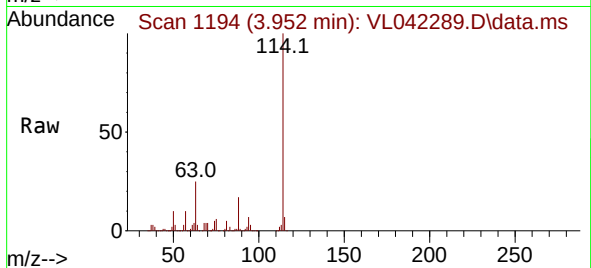
VL0409ABS02

Tgt Ion:	114	Resp:	42184
Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.7	31.1
88	17.3	15.0	22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#34

2-Butanone

Concen: 10.940 ppbv

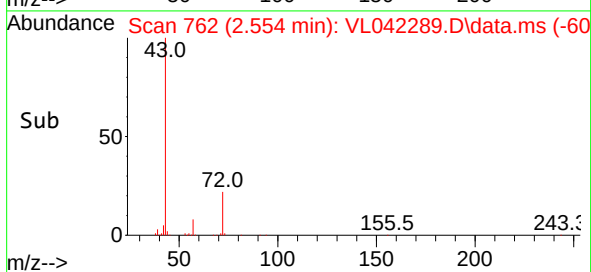
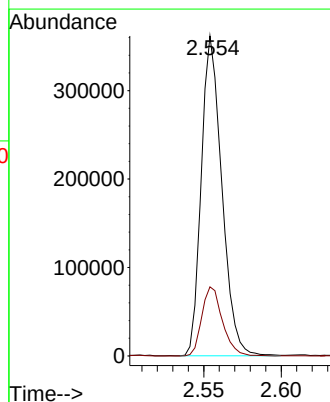
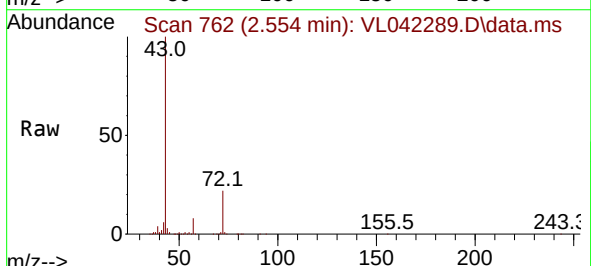
RT: 2.554 min Scan# 762

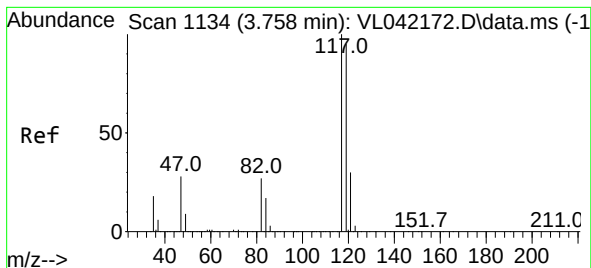
Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Tgt Ion:	43	Resp:	334636
Ion	Ratio	Lower	Upper
43	100		
72	21.7	18.2	27.2





#35

Carbon Tetrachloride

Concen: 10.420 ppbv

RT: 3.758 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0409ABS02

Tgt Ion:117 Resp: 343370

Ion Ratio Lower Upper

117 100

119 98.4 76.2 114.2

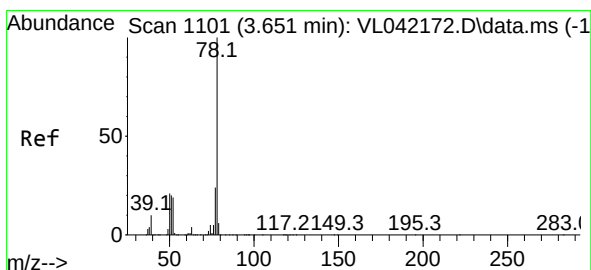
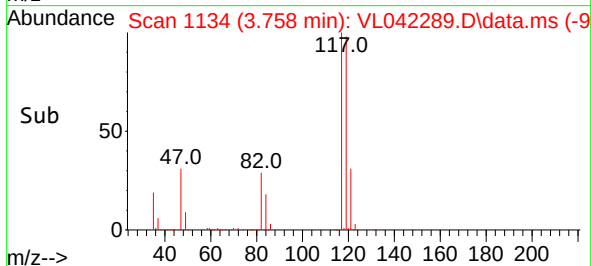
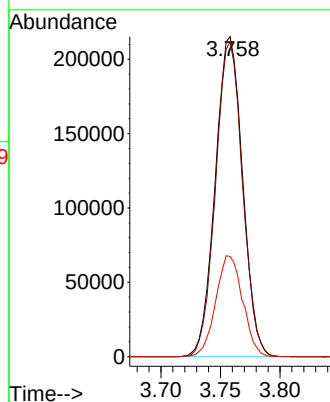
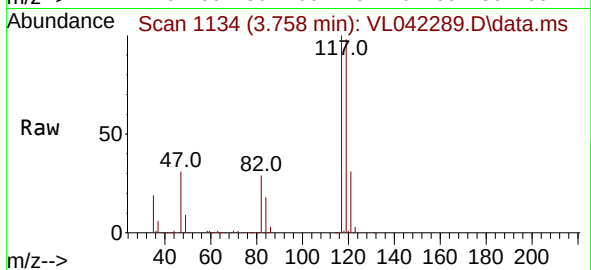
121 31.3 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#36

Benzene

Concen: 10.586 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

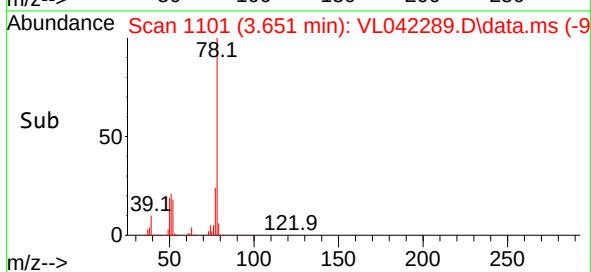
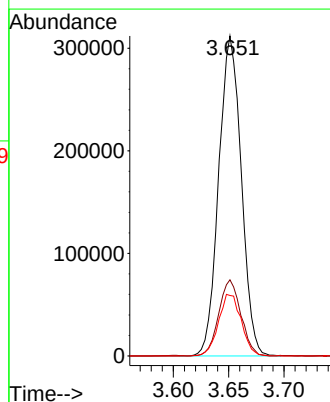
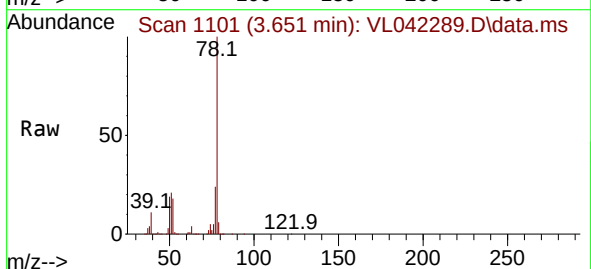
Tgt Ion: 78 Resp: 442736

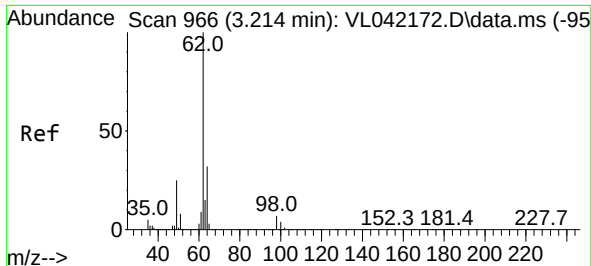
Ion Ratio Lower Upper

78 100

77 23.7 19.1 28.7

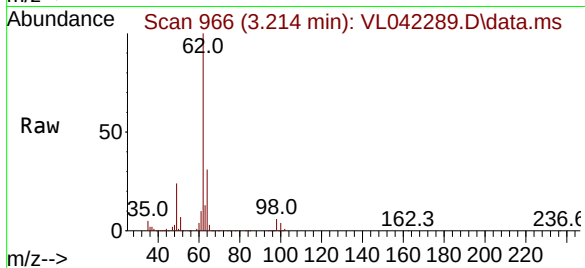
50 18.9 16.6 24.8





#37
1,2-Dichloroethane
Concen: 10.965 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

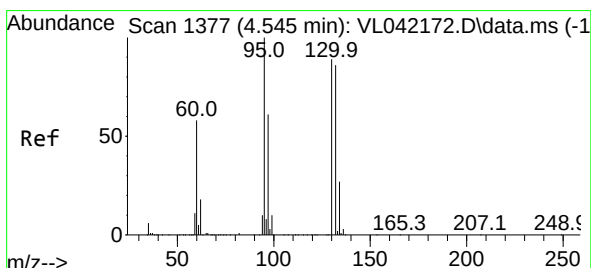
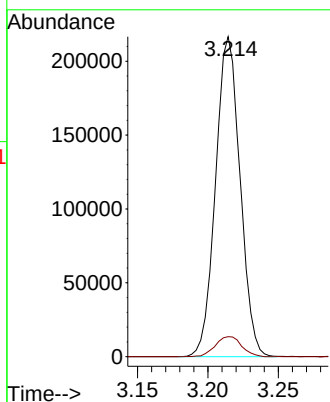
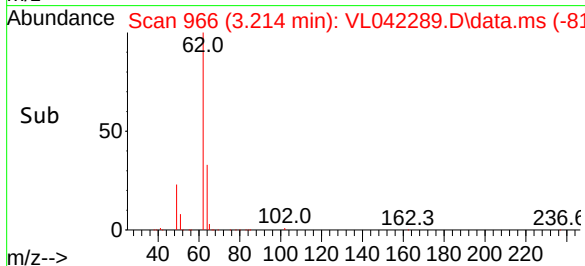
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



Tgt Ion: 62 Resp: 262528
Ion Ratio Lower Upper
62 100
98 6.8 5.4 8.2

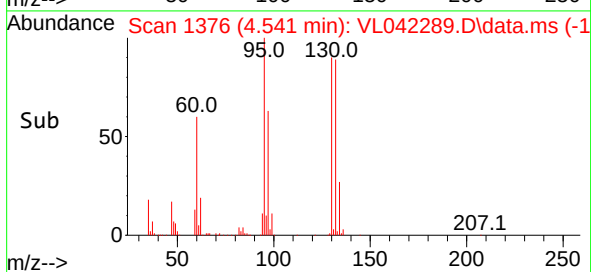
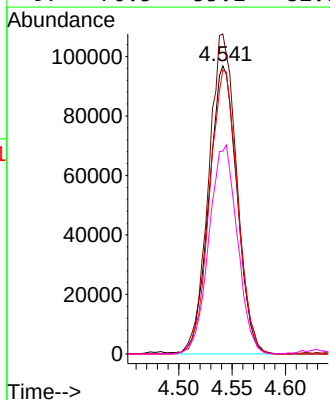
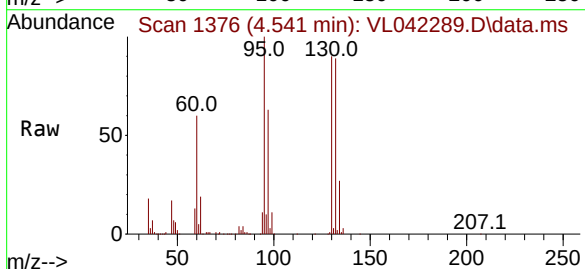
Manual Integrations
APPROVED

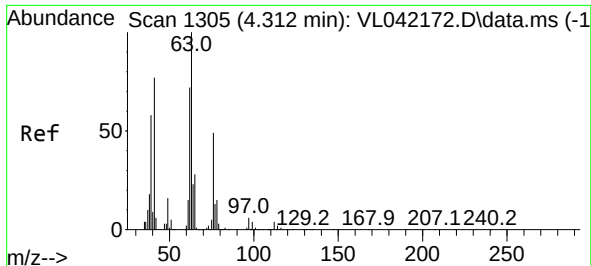
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#38
Trichloroethene
Concen: 10.111 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

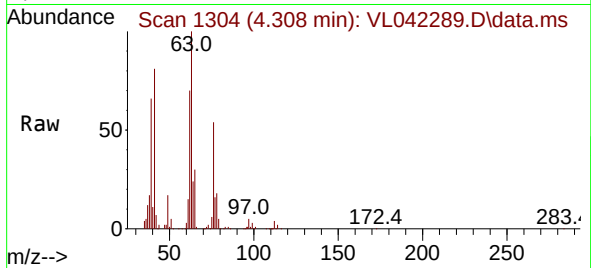
Tgt Ion:130 Resp: 176435
Ion Ratio Lower Upper
130 100
95 111.1 89.8 134.8
132 98.6 77.4 116.2
97 70.5 55.1 82.7





#39
 1,2-Dichloropropane
 Concen: 10.578 ppbv
 RT: 4.308 min Scan# 1304
 Delta R.T. -0.003 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

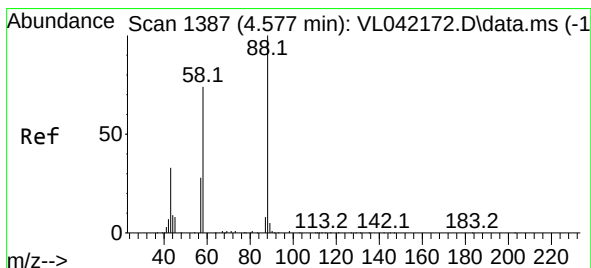
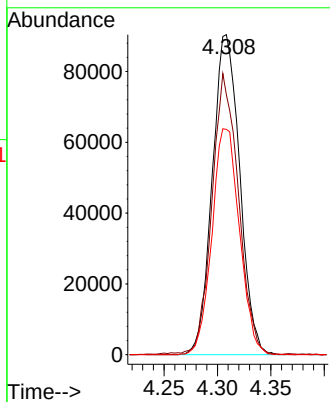
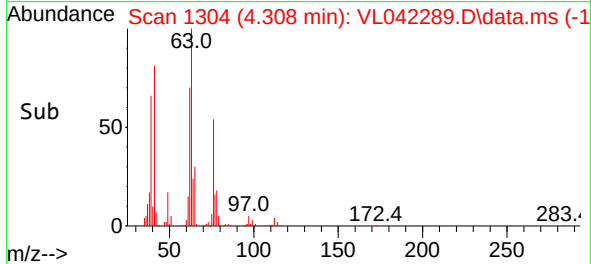
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



Tgt Ion: 63 Resp: 16110
 Ion Ratio Lower Upper
 63 100
 41 81.1 61.7 92.5
 62 70.4 57.6 86.4

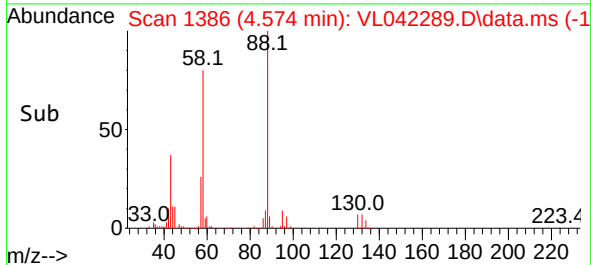
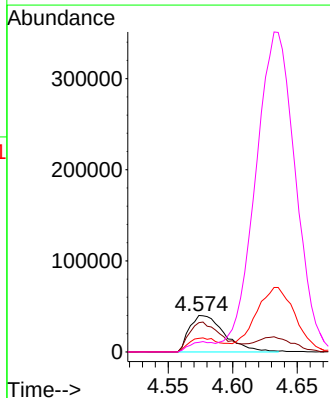
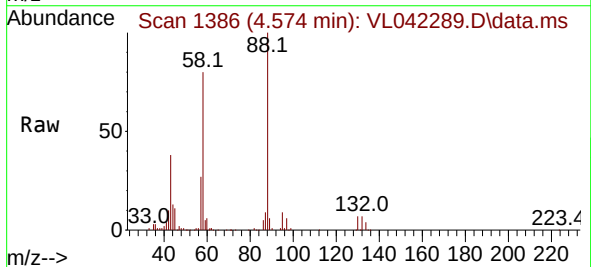
Manual Integrations
 APPROVED

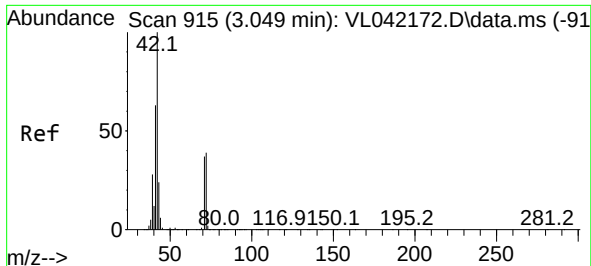
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#40
 1,4-Dioxane
 Concen: 9.441 ppbv
 RT: 4.574 min Scan# 1386
 Delta R.T. -0.003 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

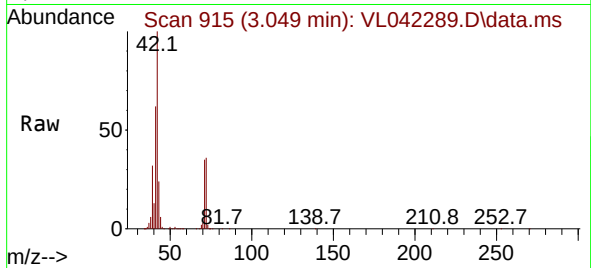
Tgt Ion: 88 Resp: 76321
 Ion Ratio Lower Upper
 88 100
 58 80.1 62.7 94.1
 43 32.6 23.0 34.4
 57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 10.661 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

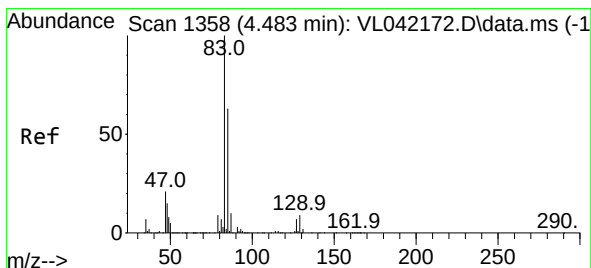
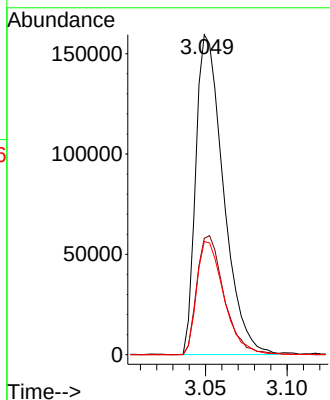
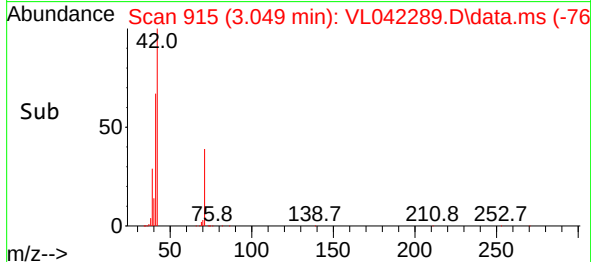
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



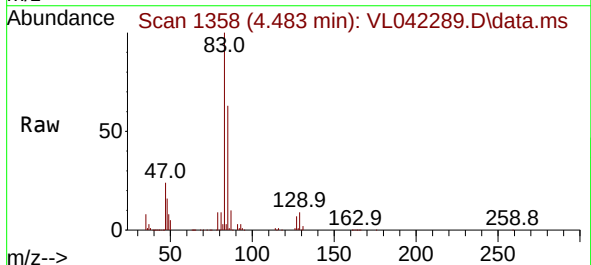
Tgt Ion: 42 Resp: 187790
Ion Ratio Lower Upper
42 100
72 36.8 31.4 47.0
71 35.0 30.2 45.4

Manual Integrations
APPROVED

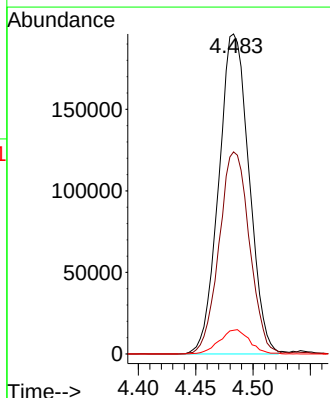
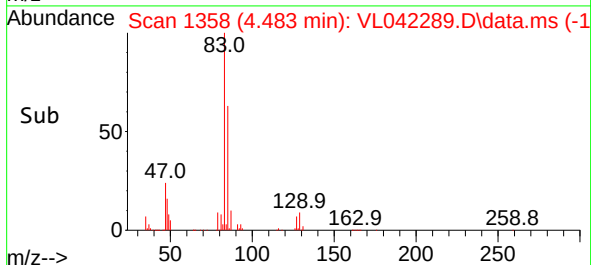
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

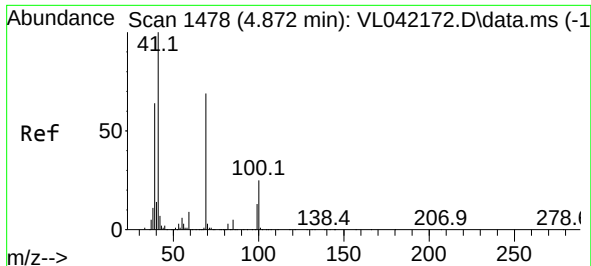


#42
Bromodichloromethane
Concen: 10.927 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



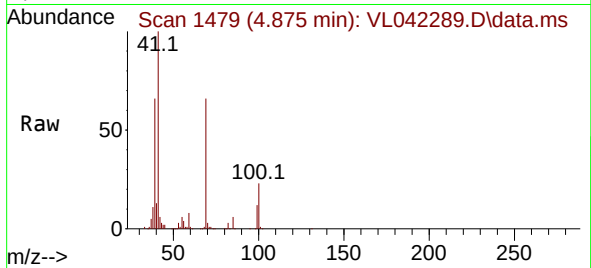
Tgt Ion: 83 Resp: 360662
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7
127 7.4 5.9 8.9





#43
Methyl Methacrylate
Concen: 9.375 ppbv
RT: 4.875 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

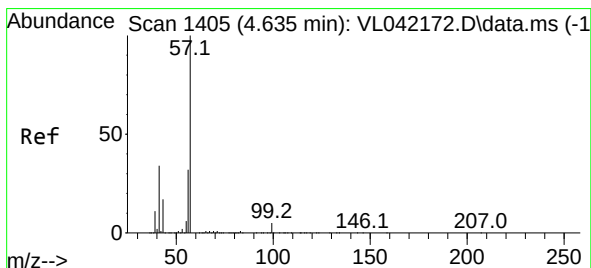
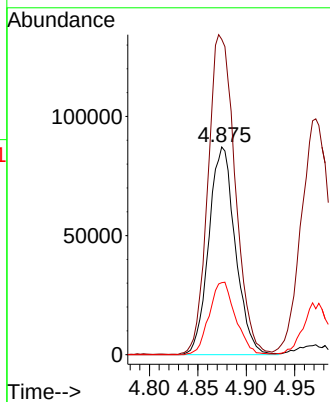
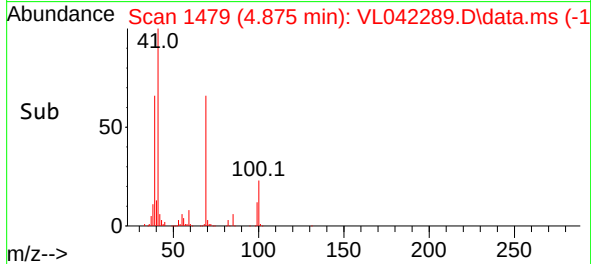
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



Tgt Ion: 69 Resp: 165984
Ion Ratio Lower Upper
69 100
41 157.7 123.8 185.6
100 34.7 28.4 42.6

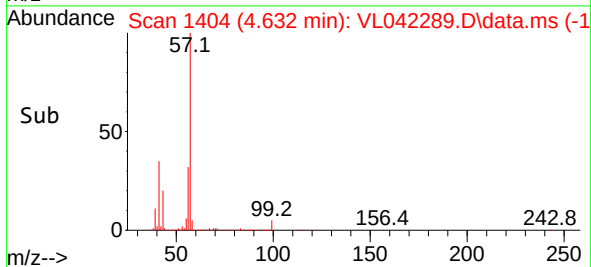
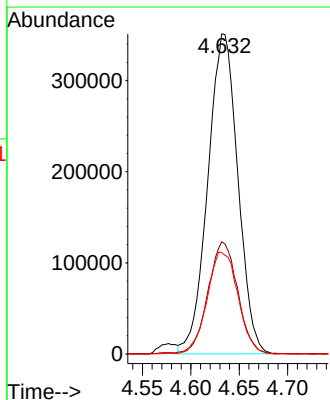
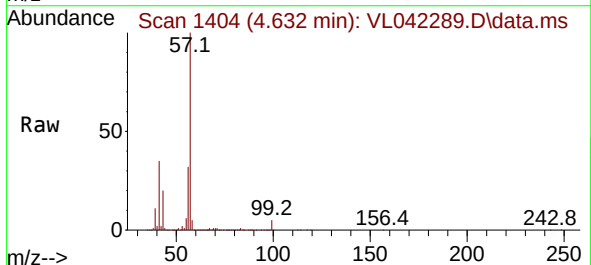
Manual Integrations
APPROVED

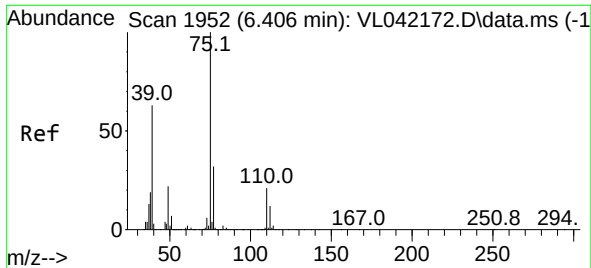
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#44
2,2,4-Trimethylpentane
Concen: 10.723 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

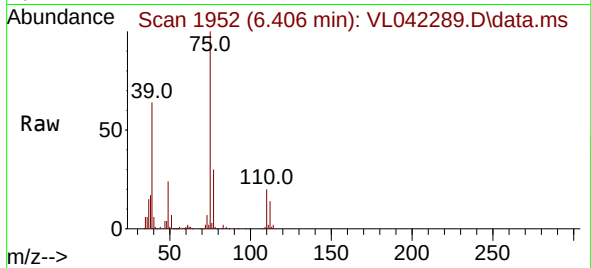
Tgt Ion: 57 Resp: 757855
Ion Ratio Lower Upper
57 100
41 35.2 26.8 40.2
56 32.9 25.6 38.4





#45
 t-1,3-Dichloropropene
 Concen: 8.489 ppbv
 RT: 6.406 min Scan# 1952
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

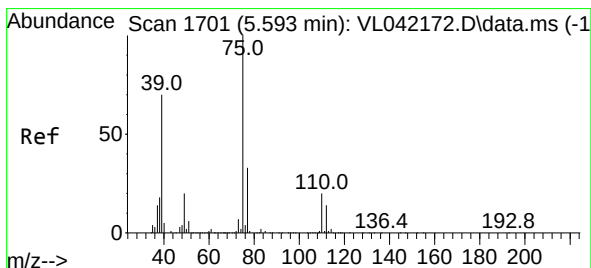
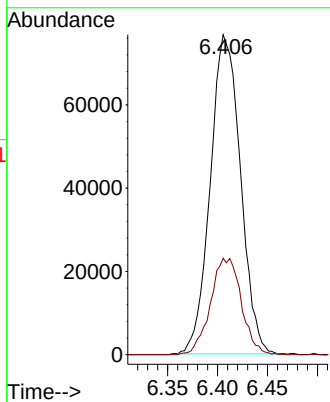
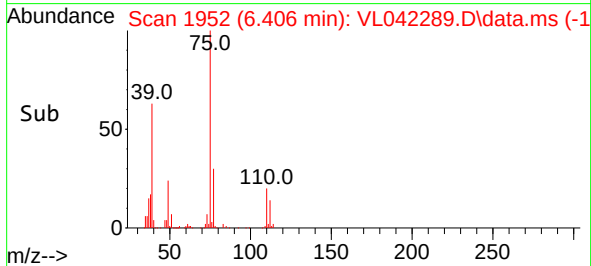
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



Tgt Ion: 75 Resp: 161249
 Ion Ratio Lower Upper
 75 100
 77 30.2 26.0 39.0

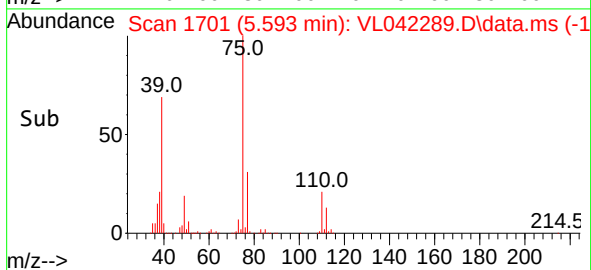
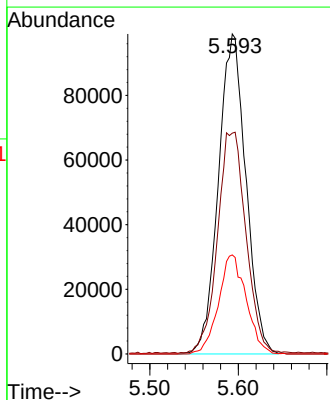
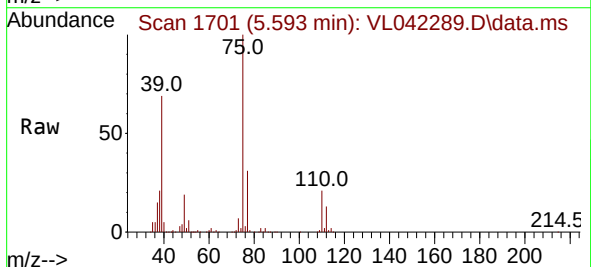
Manual Integrations
 APPROVED

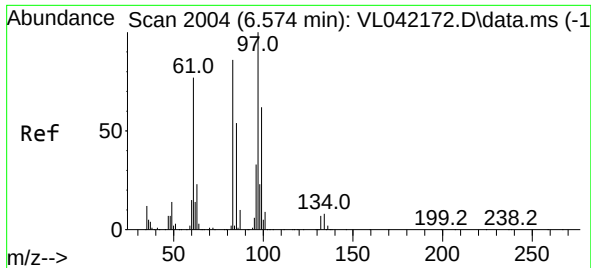
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#46
 cis-1,3-Dichloropropene
 Concen: 9.172 ppbv
 RT: 5.593 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

Tgt Ion: 75 Resp: 213566
 Ion Ratio Lower Upper
 75 100
 39 68.8 55.8 83.6
 77 30.9 26.0 39.0





#47
1,1,2-Trichloroethane
Concen: 10.777 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

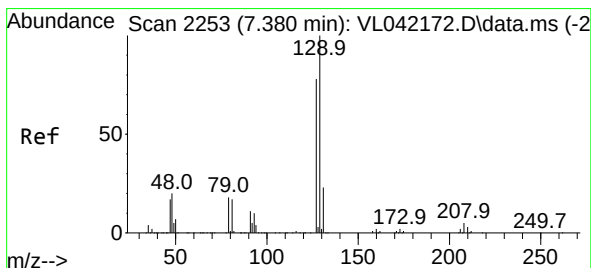
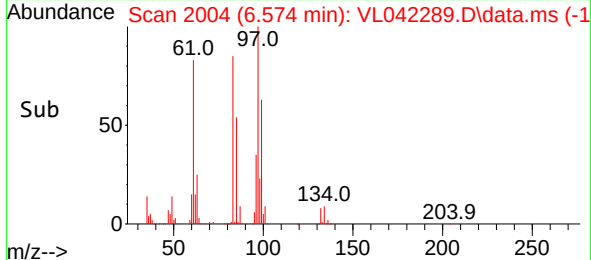
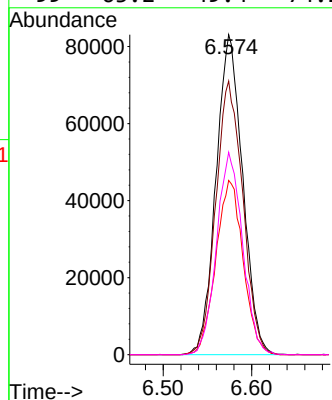
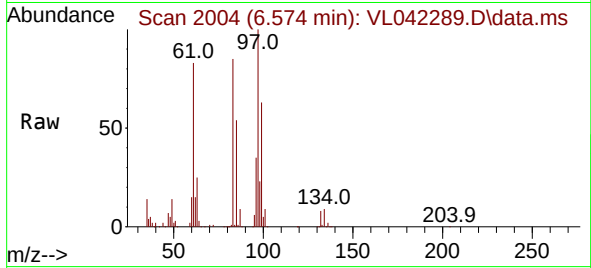
VL0409ABS02

Tgt Ion: 97 Resp: 173500
Ion Ratio Lower Upper
97 100
83 85.5 69.2 103.8
85 54.4 43.1 64.7
99 63.2 49.4 74.2

Manual Integrations

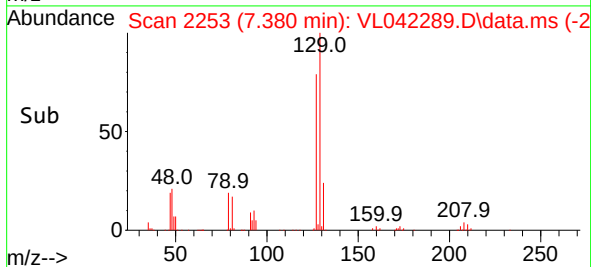
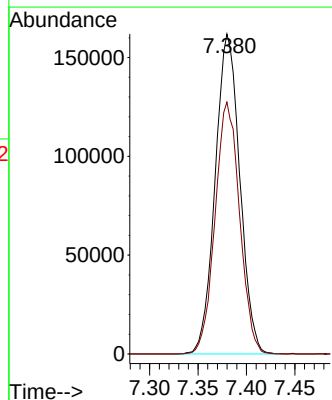
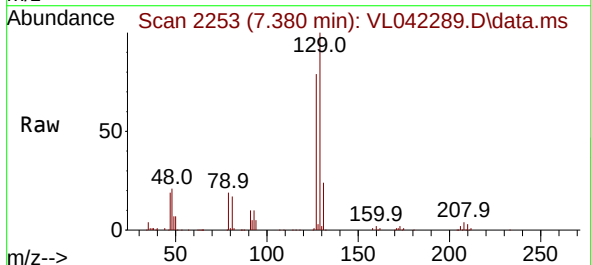
APPROVED

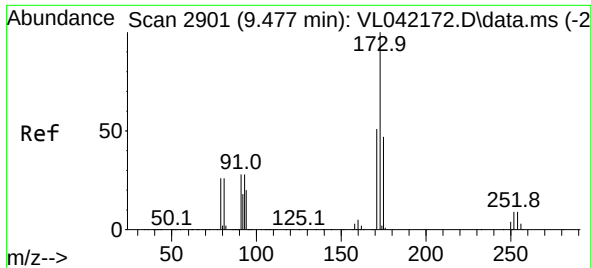
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#48
Dibromochloromethane
Concen: 10.516 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

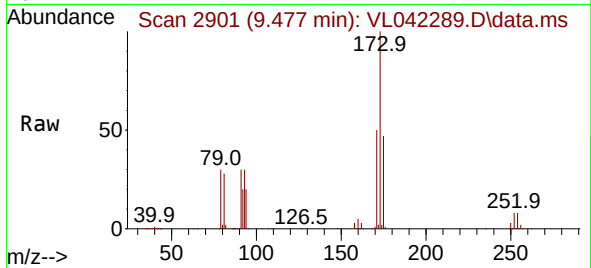
Tgt Ion:129 Resp: 286938
Ion Ratio Lower Upper
129 100
127 78.2 39.1 117.2





#49
Bromoform
Concen: 10.386 ppbv
RT: 9.477 min Scan# 2901
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

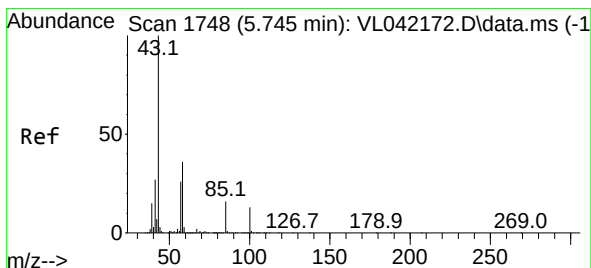
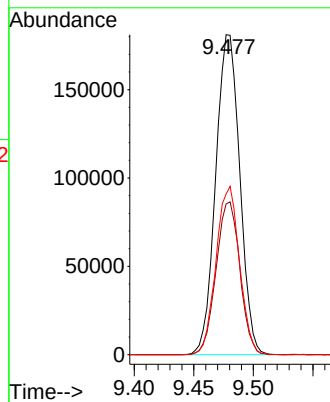
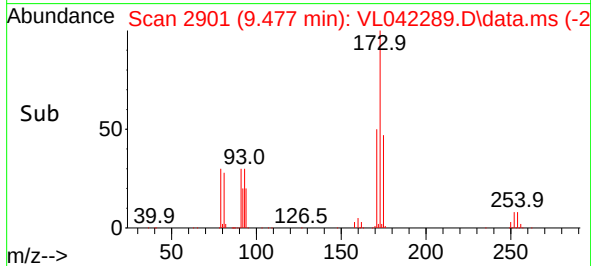
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



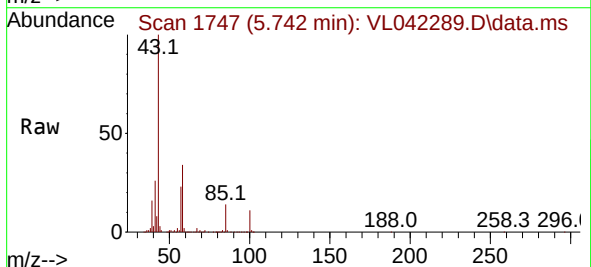
Tgt Ion:173 Resp: 254430
Ion Ratio Lower Upper
173 100
175 47.2 38.6 57.8
171 51.2 41.8 62.6

Manual Integrations
APPROVED

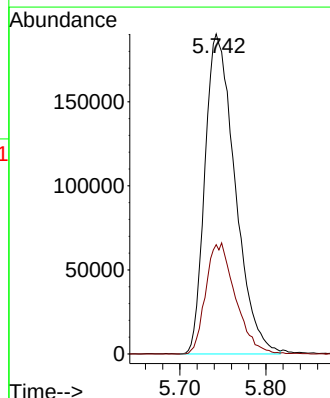
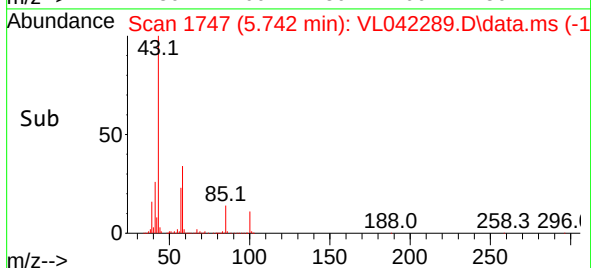
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

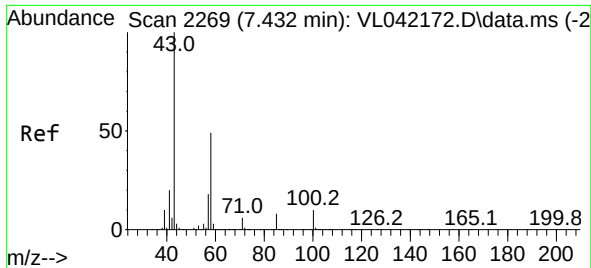


#50
4-Methyl-2-Pentanone
Concen: 9.552 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



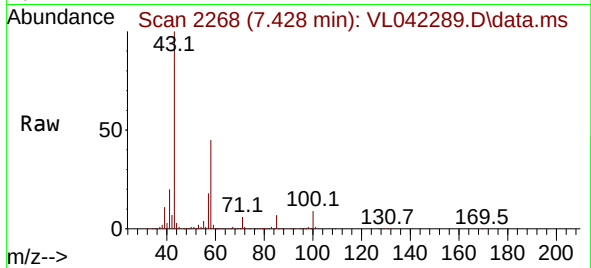
Tgt Ion: 43 Resp: 463069
Ion Ratio Lower Upper
43 100
58 34.2 29.0 43.6





#51
2-Hexanone
Concen: 9.168 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

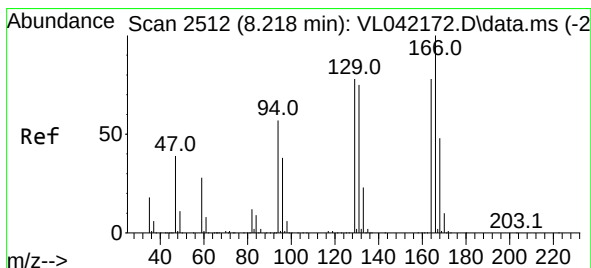
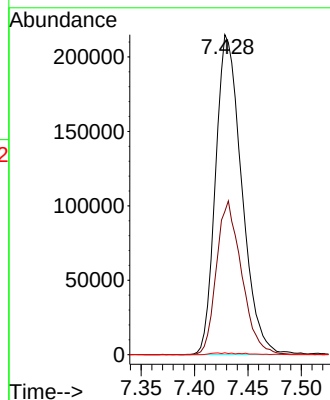
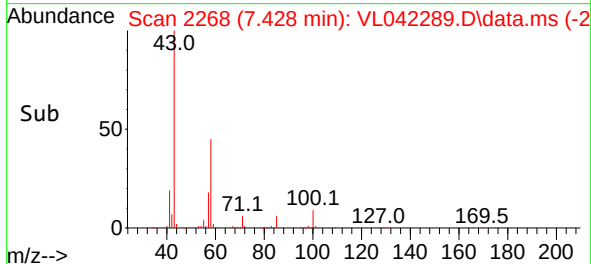
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



Tgt Ion: 43 Resp: 364940
Ion Ratio Lower Upper
43 100
58 46.5 39.7 59.5
98 0.8 0.1 0.1

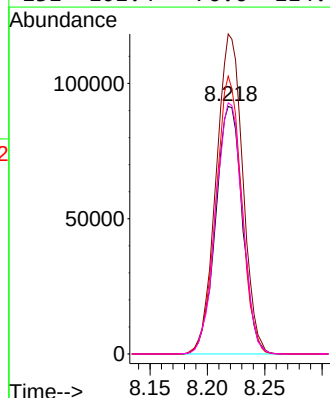
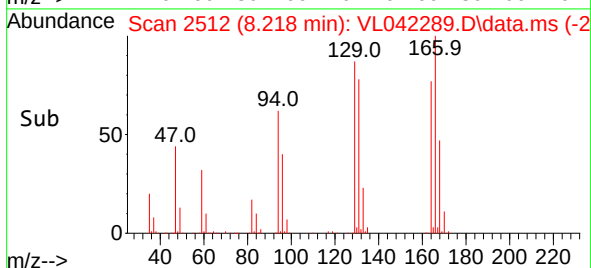
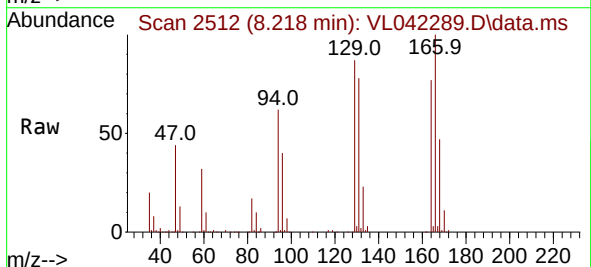
Manual Integrations
APPROVED

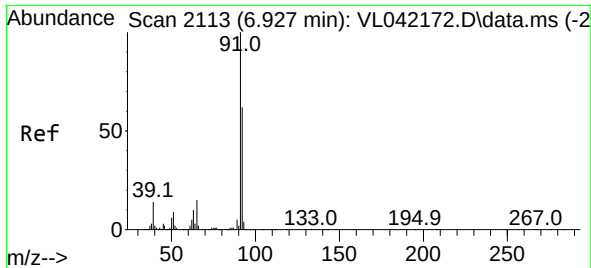
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#52
Tetrachloroethene
Concen: 8.946 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

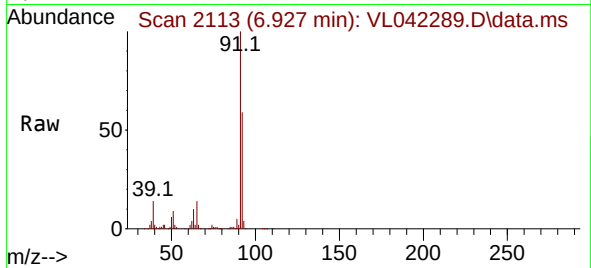
Tgt Ion:164 Resp: 148369
Ion Ratio Lower Upper
164 100
166 129.3 102.5 153.7
129 112.2 79.8 119.8
131 101.4 76.6 114.8





#53
Toluene
Concen: 9.903 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

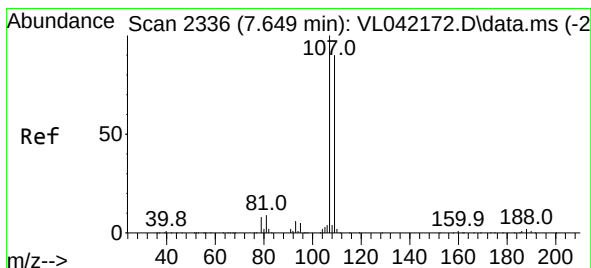
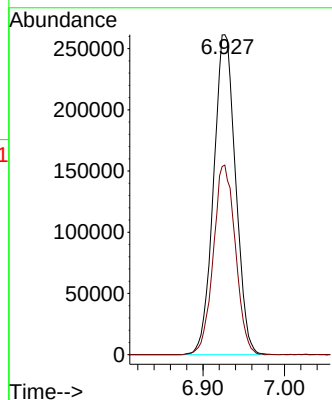
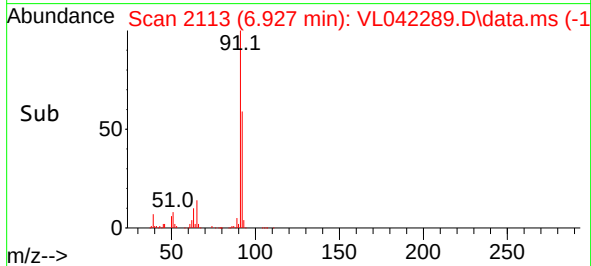
Instrument : MSVOA_L
ClientSampleId : VL0409ABS02



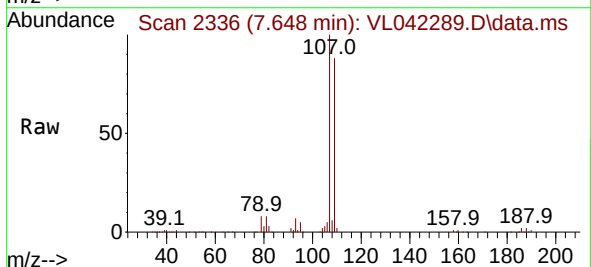
Tgt Ion: 91 Resp: 490910
Ion Ratio Lower Upper
91 100
92 59.5 48.4 72.6

Manual Integrations
APPROVED

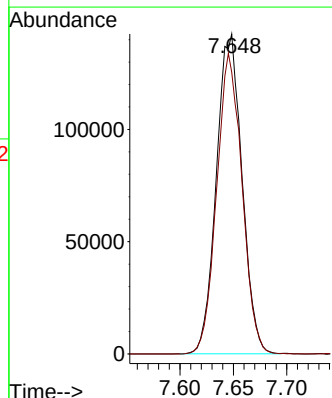
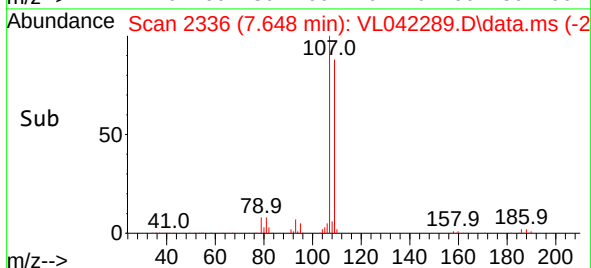
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

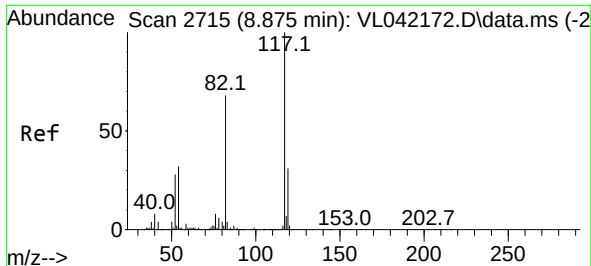


#54
1,2-Dibromoethane
Concen: 10.608 ppbv
RT: 7.648 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



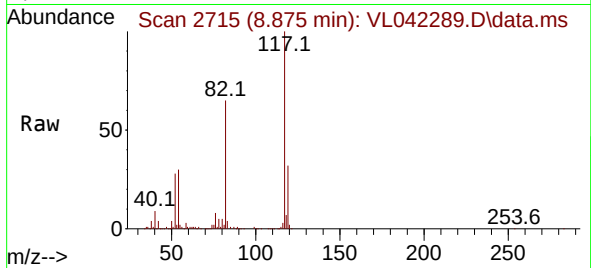
Tgt Ion:107 Resp: 238091
Ion Ratio Lower Upper
107 100
109 88.1 72.2 108.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

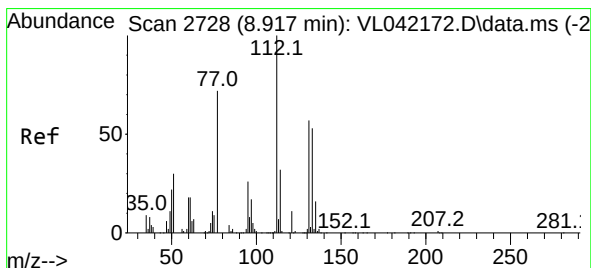
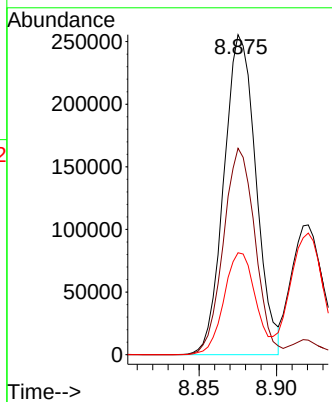
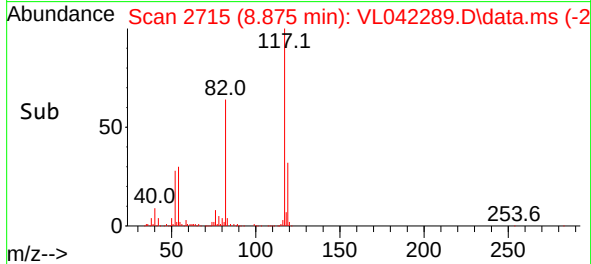
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



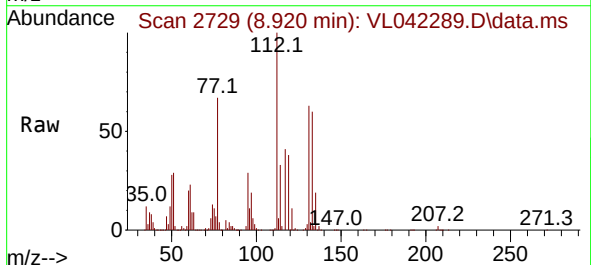
Tgt Ion:117 Resp: 36848
Ion Ratio Lower Upper
117 100
82 67.9 55.8 83.6
119 31.8 25.5 38.3

Manual Integrations
APPROVED

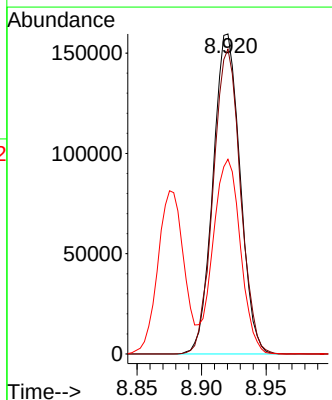
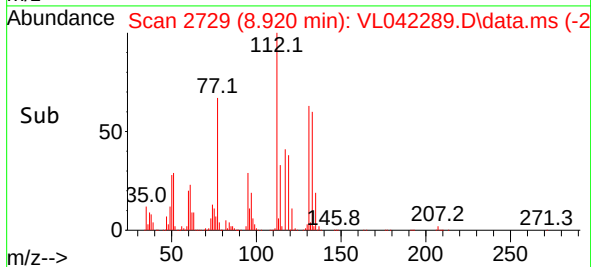
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

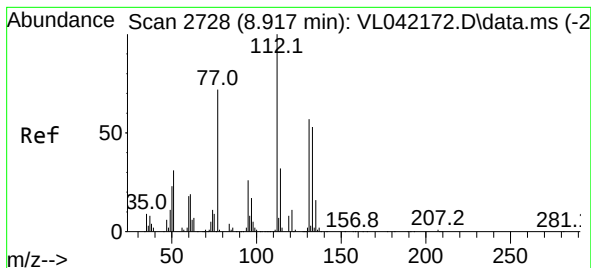


#56
1,1,1,2-Tetrachloroethane
Concen: 11.465 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion:131 Resp: 232553
Ion Ratio Lower Upper
131 100
133 95.9 76.6 114.8
119 62.4 49.8 74.6





#57

Chlorobenzene

Concen: 11.372 ppbv

RT: 8.914 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0409ABS02

Tgt Ion:112 Resp: 39748

Ion Ratio Lower Upper

112 100

77 66.3 58.2 87.2

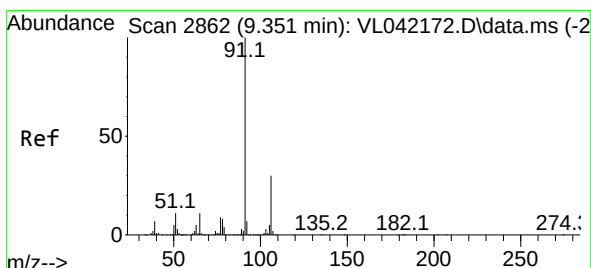
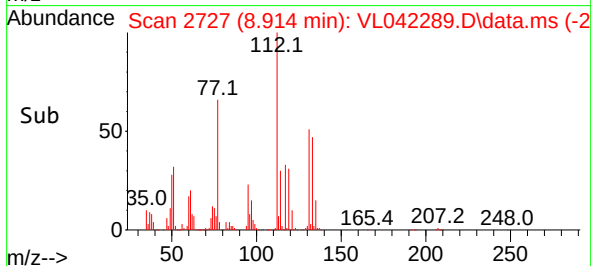
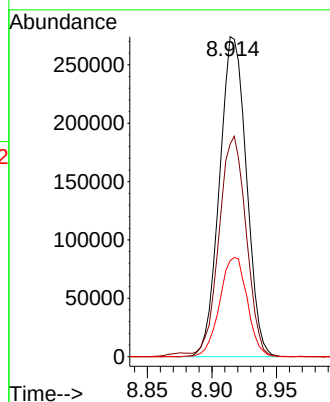
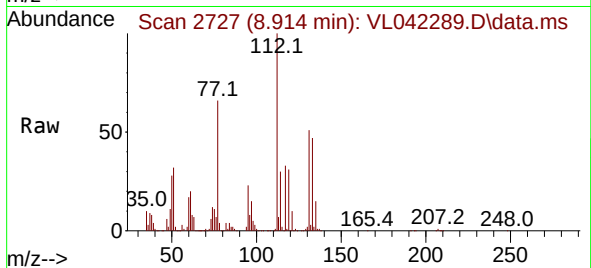
114 30.0 29.1 35.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#58

Ethyl Benzene

Concen: 10.619 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. -0.000 min

Lab File: VL042289.D

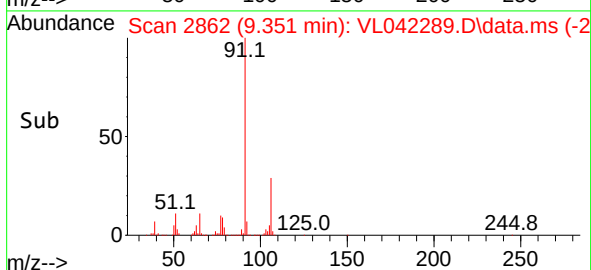
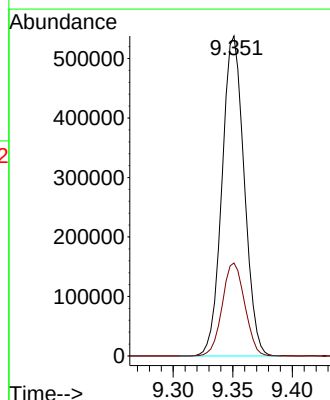
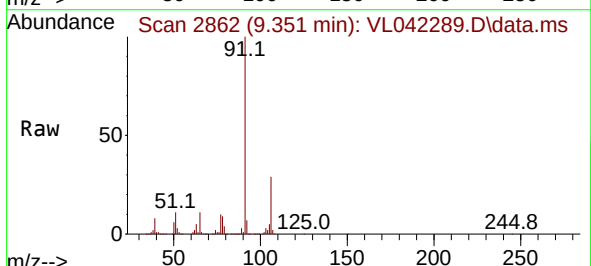
Acq: 09 Apr 2025 12:31

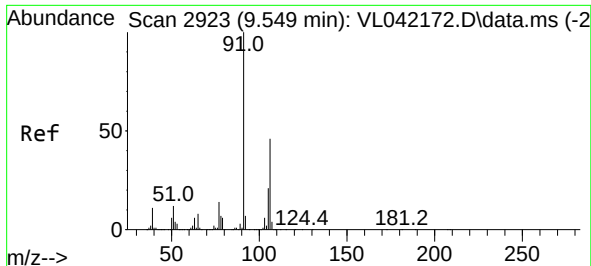
Tgt Ion: 91 Resp: 695035

Ion Ratio Lower Upper

91 100

106 29.0 24.2 36.2





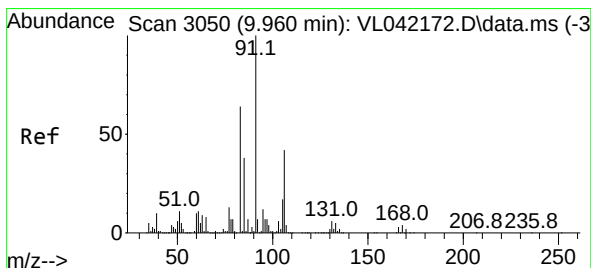
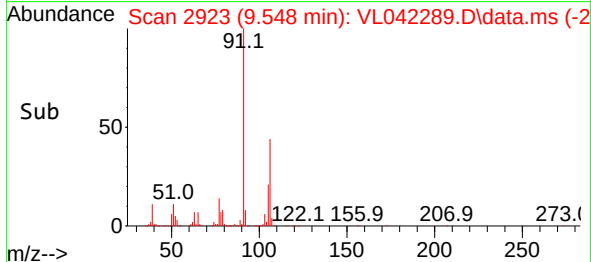
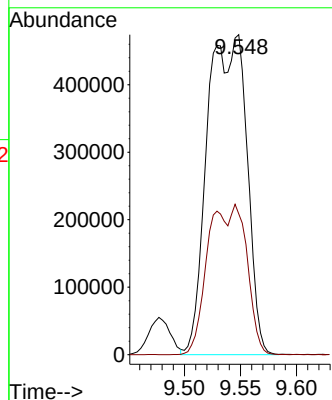
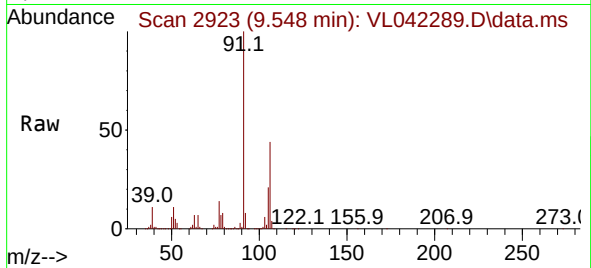
#59
m/p-Xylene
Concen: 22.239 ppbv m
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02

Tgt Ion: 91 Resp: 116233
Ion Ratio Lower Upper
91 100
106 46.3 36.4 54.6

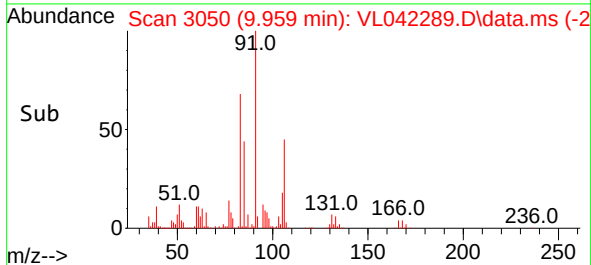
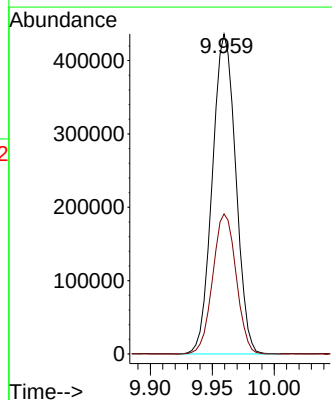
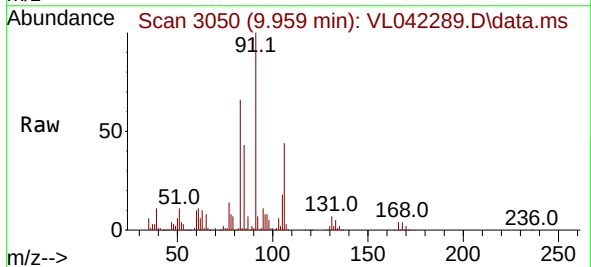
Manual Integrations
APPROVED

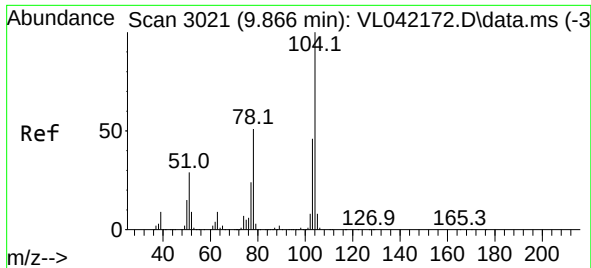
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#60
o-Xylene
Concen: 10.960 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion: 91 Resp: 574256
Ion Ratio Lower Upper
91 100
106 43.7 20.8 62.5





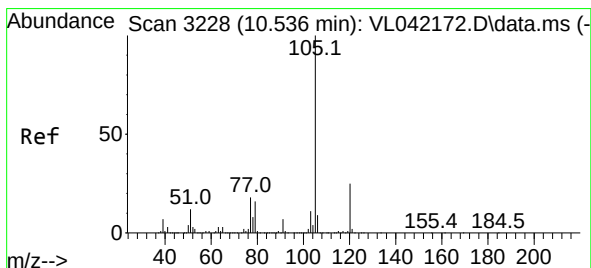
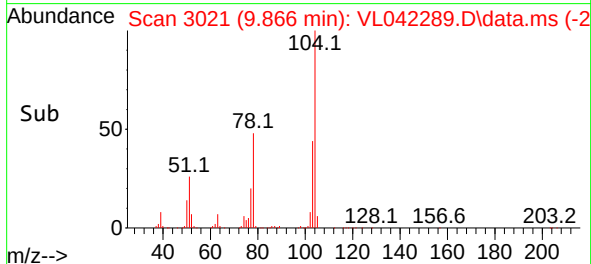
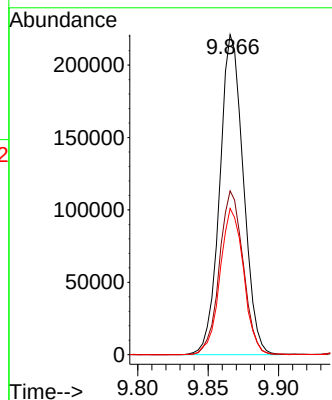
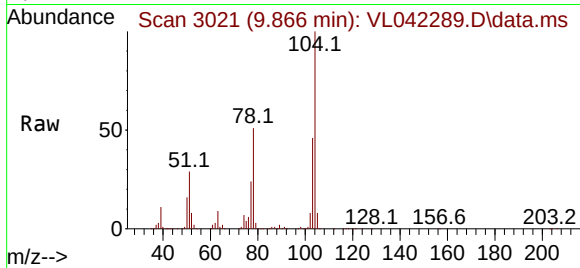
#61
Styrene
Concen: 9.967 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Instrument : MSVOA_L
ClientSampleId : VL0409ABS02

Tgt Ion:104 Resp: 258350
Ion Ratio Lower Upper
104 100
78 51.6 41.8 62.6
103 45.9 37.0 55.4

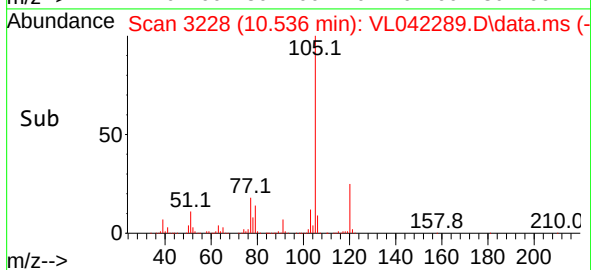
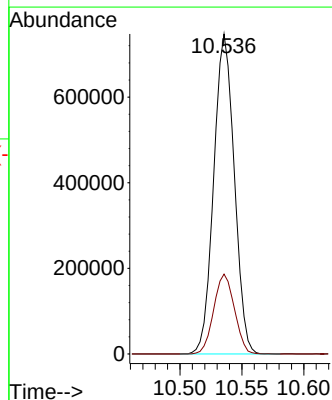
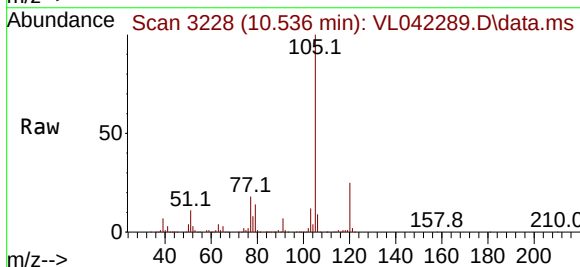
Manual Integrations
APPROVED

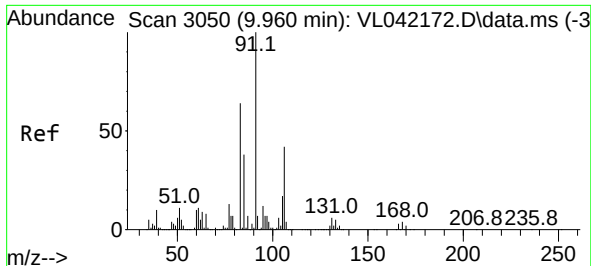
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#62
Isopropylbenzene
Concen: 11.032 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

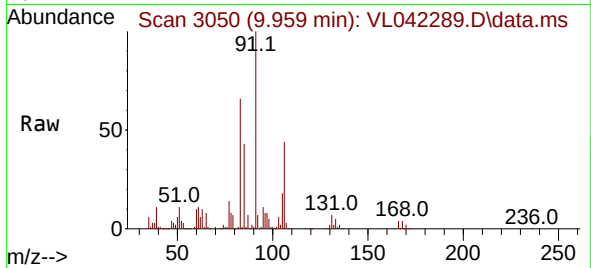
Tgt Ion:105 Resp: 864354
Ion Ratio Lower Upper
105 100
120 25.1 19.9 29.9





#63
1,1,2,2-Tetrachloroethane
Concen: 11.843 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

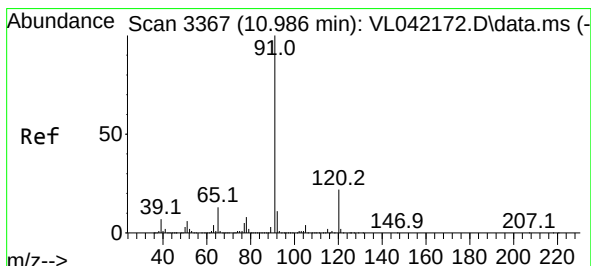
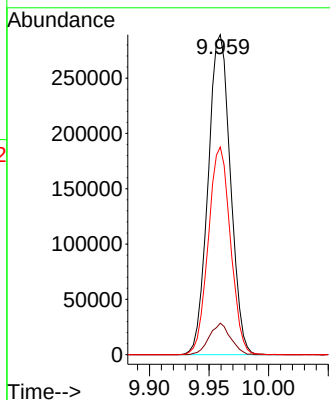
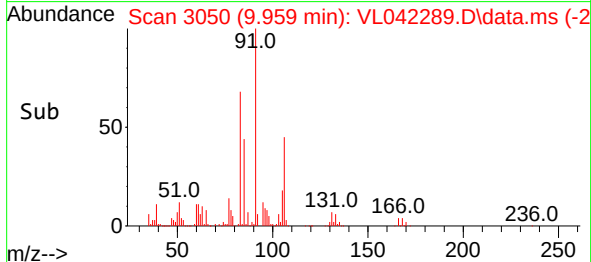
Instrument : MSVOA_L
Client Sample Id : VL0409ABS02



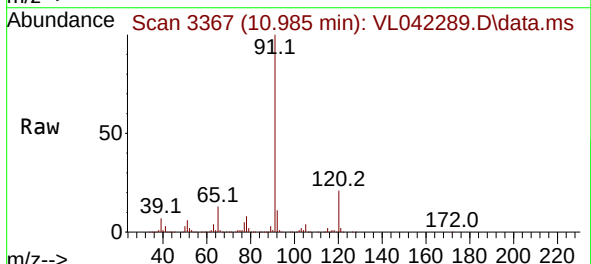
Tgt Ion: 83 Resp: 37700
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.4
85 64.5 32.5 97.5

Manual Integrations
APPROVED

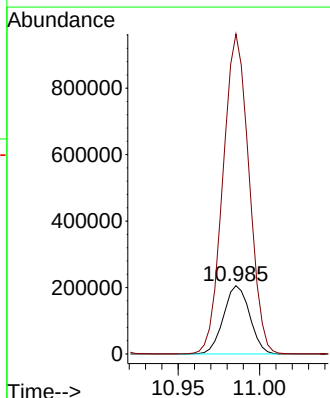
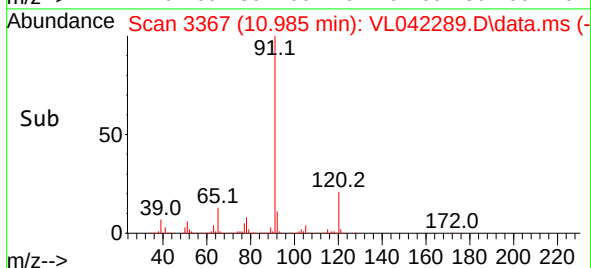
Reviewed By : Semsettin Yesilyurt 04/10/2025
Supervised By : Mahesh Dadoda 04/10/2025

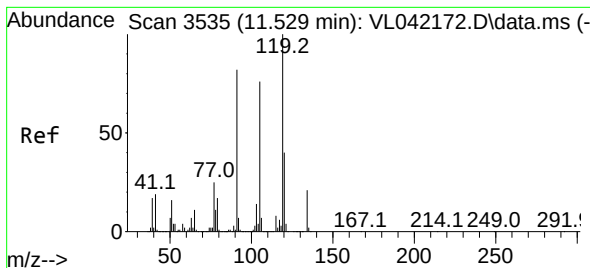


#64
n-propylbenzene
Concen: 11.331 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



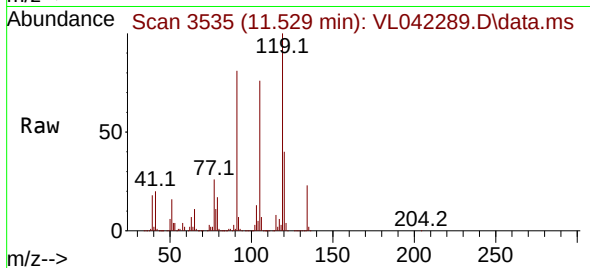
Tgt Ion: 120 Resp: 228525
Ion Ratio Lower Upper
120 100
91 468.7 376.9 565.3





#65
tert-Butylbenzene
Concen: 10.909 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

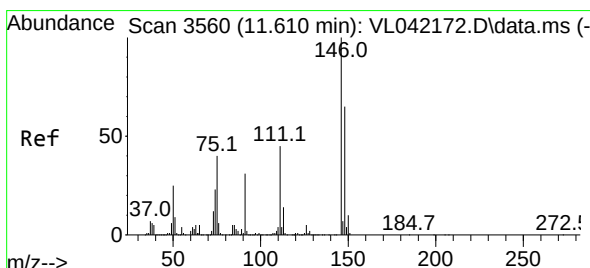
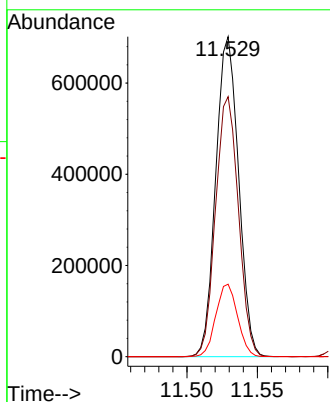
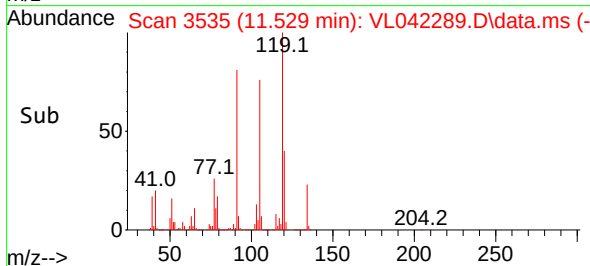
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



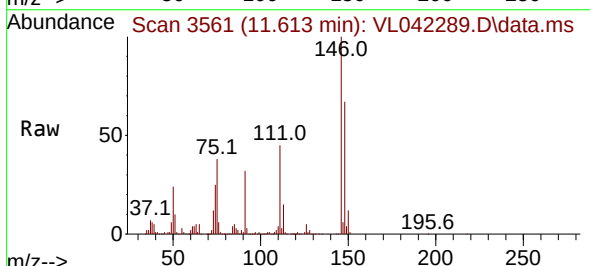
Tgt Ion: 119 Resp: 79046
Ion Ratio Lower Upper
119 100
91 81.4 66.0 99.0
134 21.6 16.7 25.1

Manual Integrations
APPROVED

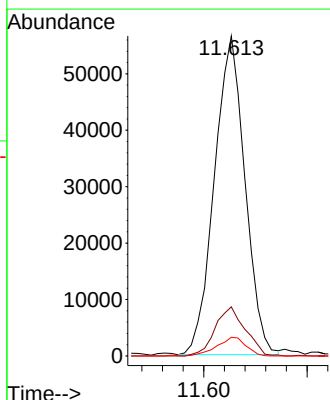
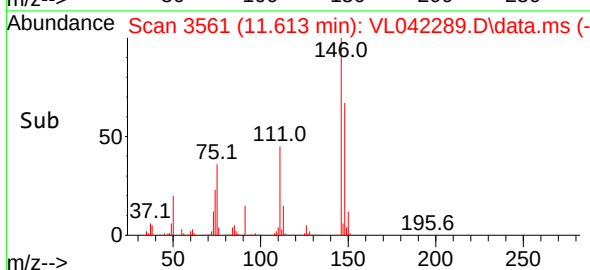
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

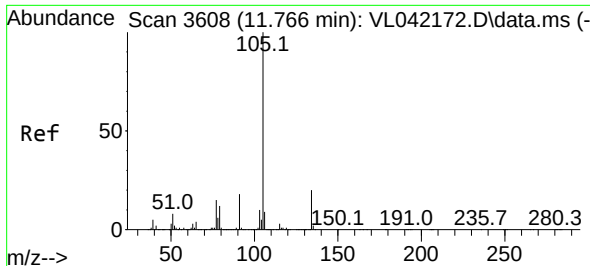


#66
Benzyl Chloride
Concen: 7.561 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



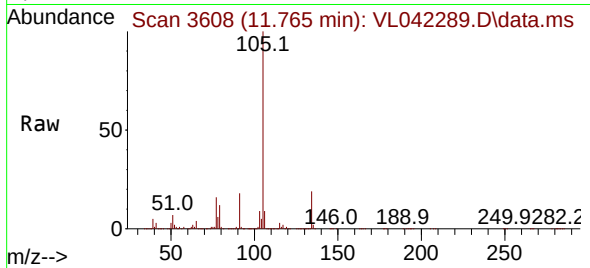
Tgt Ion: 91 Resp: 58131
Ion Ratio Lower Upper
91 100
126 15.2 13.8 20.6
128 5.6 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 11.161 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31

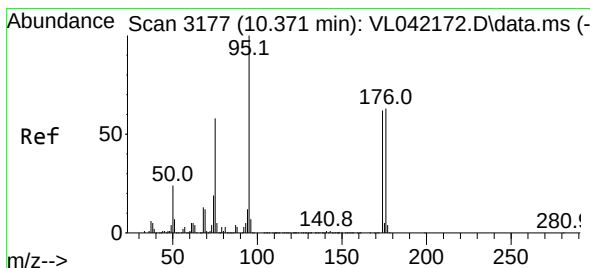
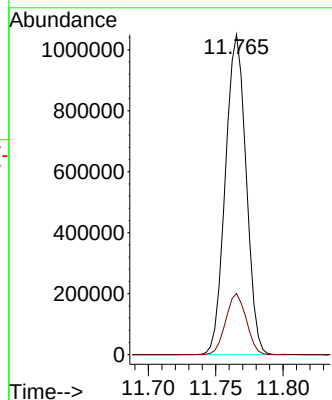
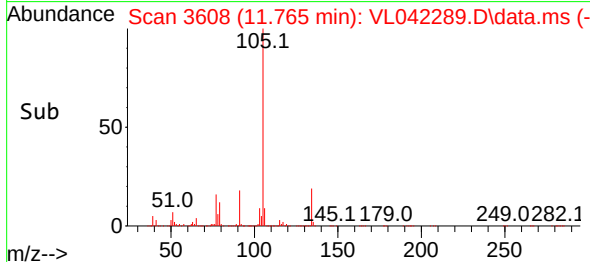
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0409ABS02



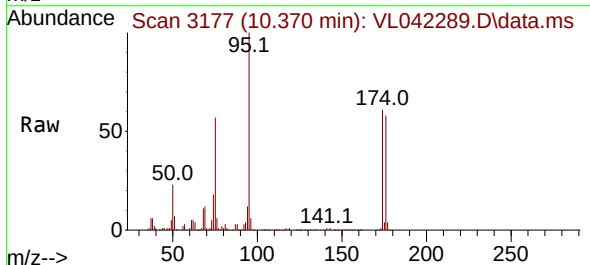
Tgt Ion:105 Resp: 1124090
 Ion Ratio Lower Upper
 105 100
 134 19.0 15.5 23.3

Manual Integrations
 APPROVED

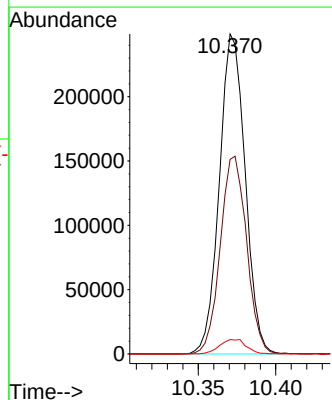
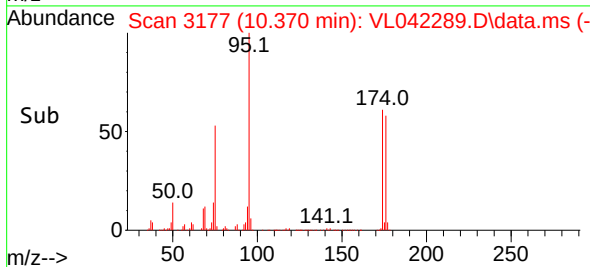
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

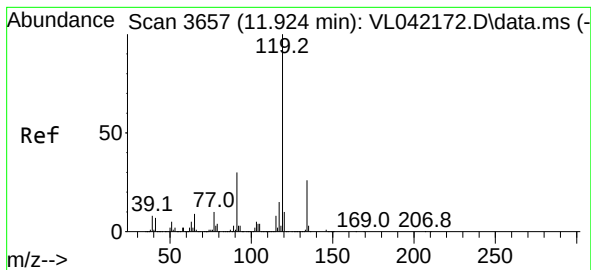


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.522 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.000 min
 Lab File: VL042289.D
 Acq: 09 Apr 2025 12:31



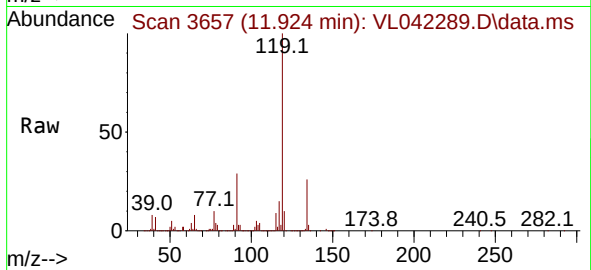
Tgt Ion: 95 Resp: 288141
 Ion Ratio Lower Upper
 95 100
 174 63.2 50.6 76.0
 175 4.7 3.8 5.6





#69
p-Isopropyltoluene
Concen: 10.954 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

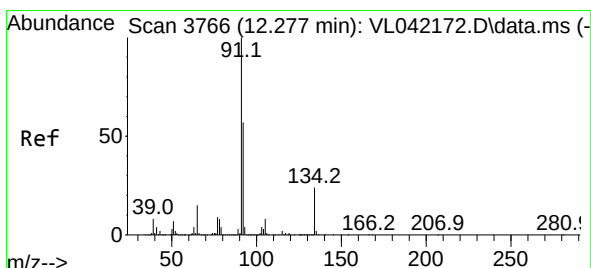
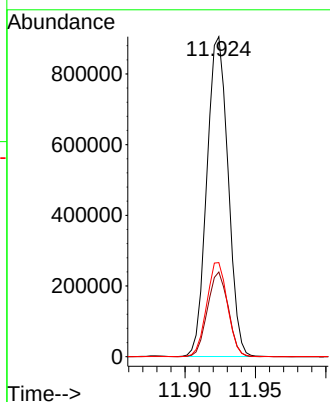
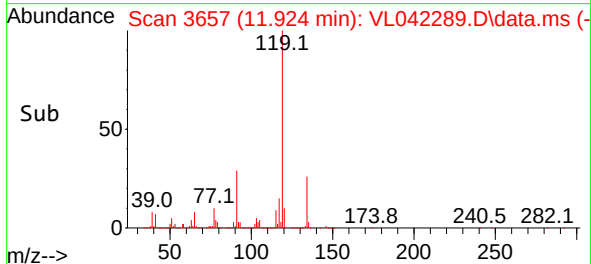
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



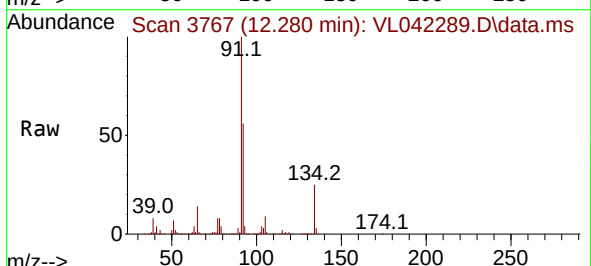
Tgt Ion: 119 Resp: 950025
Ion Ratio Lower Upper
119 100
134 25.9 20.4 30.6
91 29.1 23.7 35.5

Manual Integrations
APPROVED

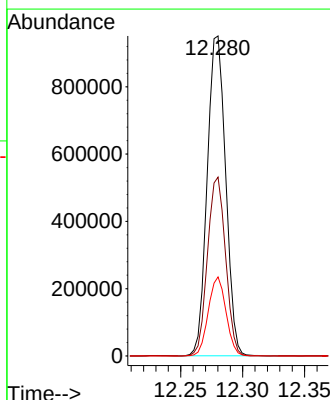
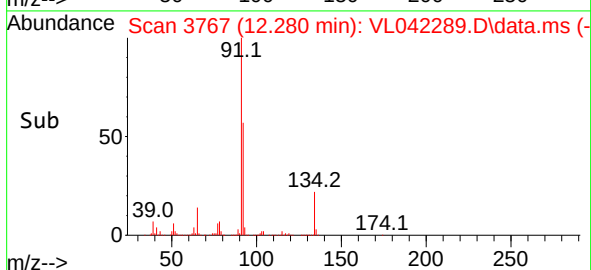
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

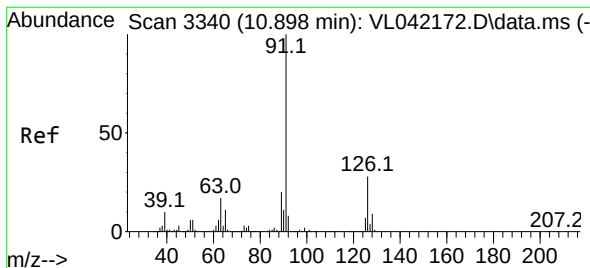


#70
n-Butylbenzene
Concen: 11.124 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



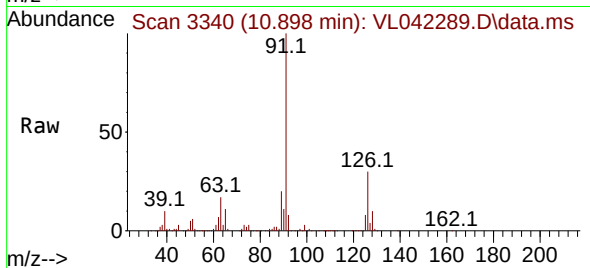
Tgt Ion: 91 Resp: 986632
Ion Ratio Lower Upper
91 100
92 54.9 44.9 67.3
134 23.8 19.2 28.8





#71
2-Chlorotoluene
Concen: 10.859 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

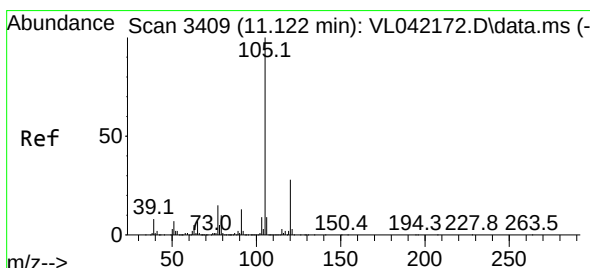
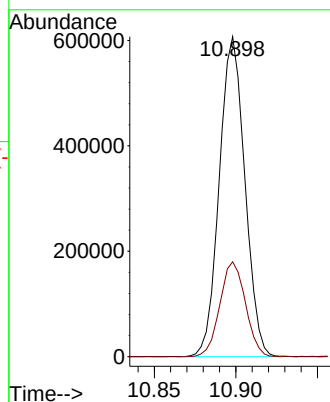
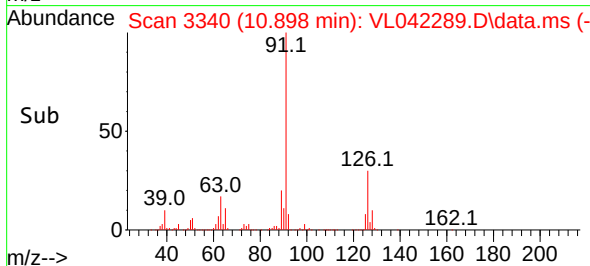
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



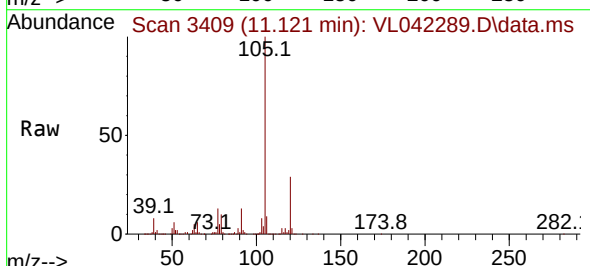
Tgt Ion: 91 Resp: 660340
Ion Ratio Lower Upper
91 100
126 29.7 11.6 46.4

Manual Integrations
APPROVED

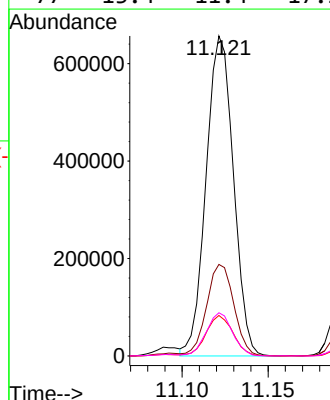
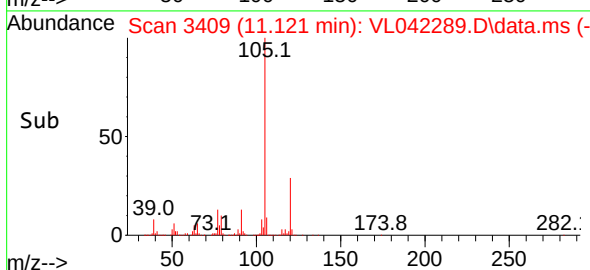
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

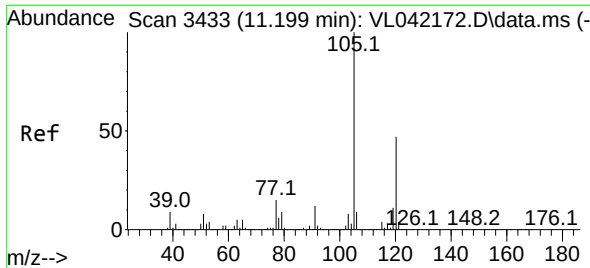


#72
4-Ethyltoluene
Concen: 11.142 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



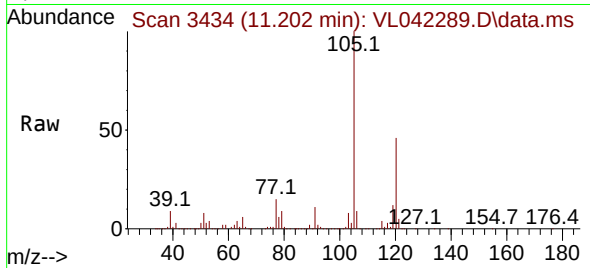
Tgt Ion:105 Resp: 726883
Ion Ratio Lower Upper
105 100
120 29.3 23.4 35.0
91 13.0 10.3 15.5
77 13.4 11.4 17.2





#73
1,3,5-Trimethylbenzene
Concen: 10.851 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. 0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

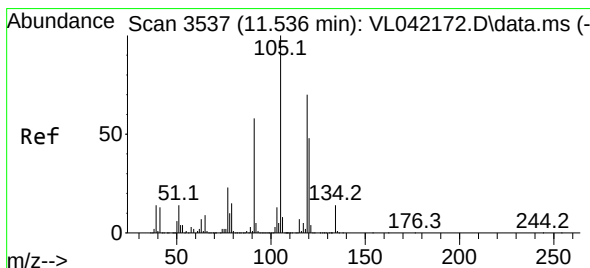
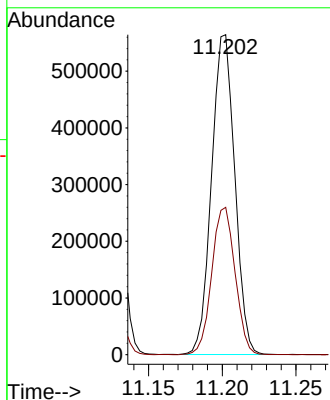
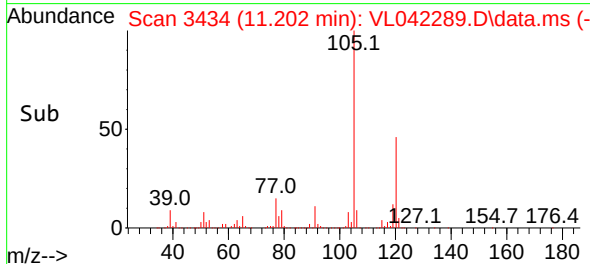
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



Tgt Ion:105 Resp: 618219
Ion Ratio Lower Upper
105 100
120 46.0 37.4 56.0

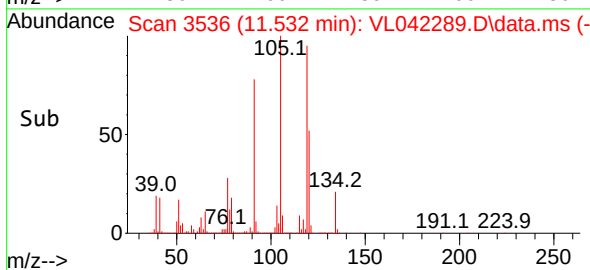
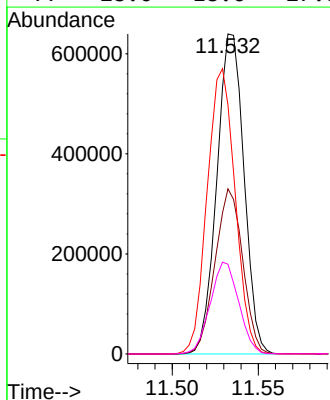
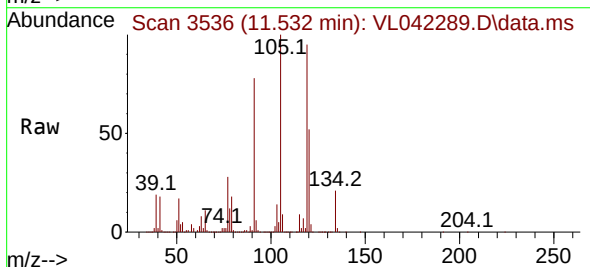
Manual Integrations
APPROVED

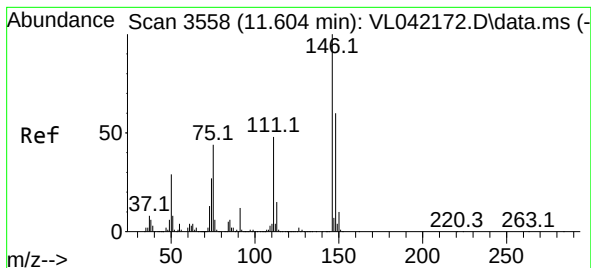
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 10.699 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

Tgt Ion:105 Resp: 702287
Ion Ratio Lower Upper
105 100
120 51.6 38.6 58.0
91 77.8 46.2 69.2#
77 28.0 18.6 27.8#





#75

1,3-Dichlorobenzene

Concen: 11.644 ppbv

RT: 11.604 min Scan# 3558

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

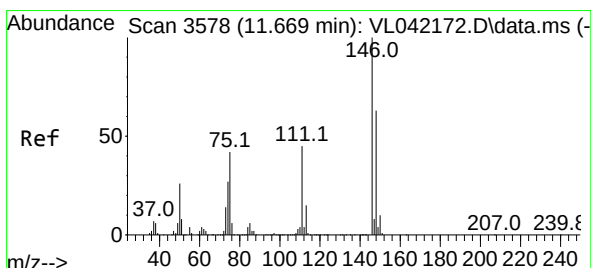
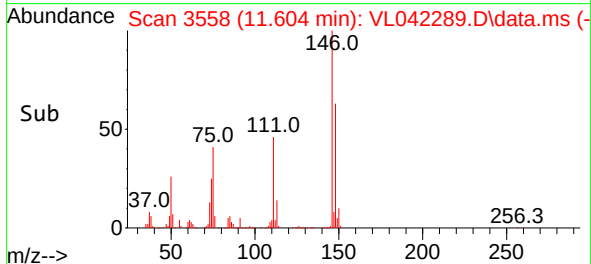
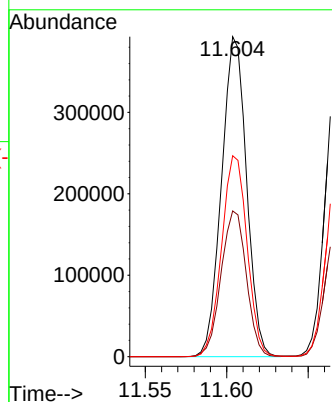
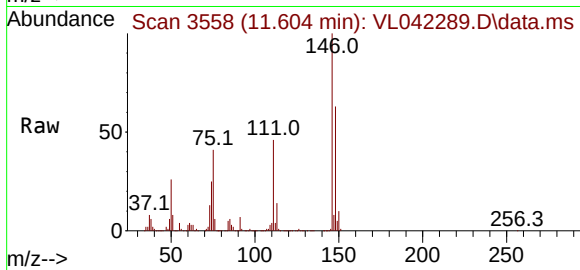
VL0409ABS02

Tgt Ion:	146	Resp:	41916
Ion Ratio	Lower	Upper	
146	100		
111	46.1	23.8	71.2
148	64.0	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#76

1,4-Dichlorobenzene

Concen: 11.660 ppbv

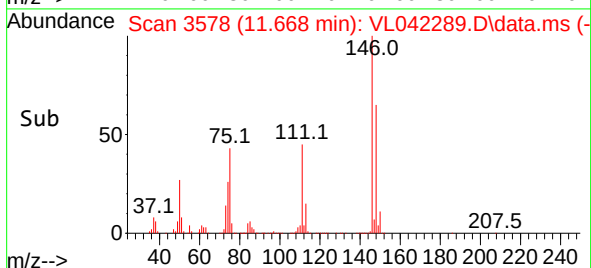
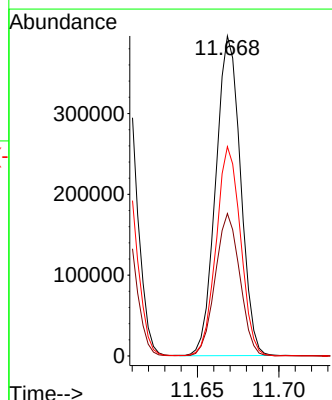
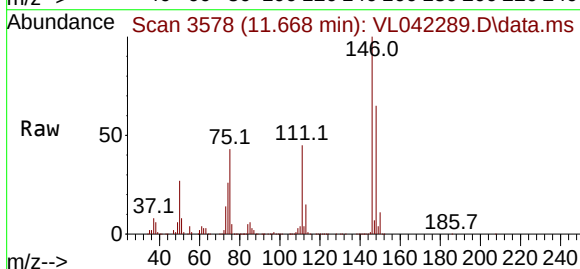
RT: 11.668 min Scan# 3578

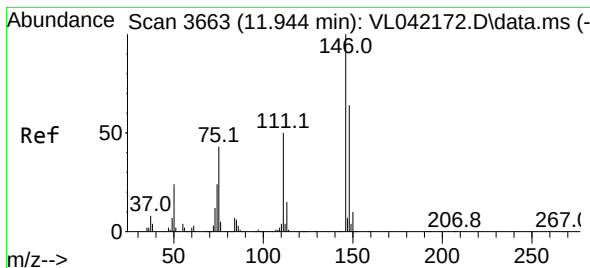
Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Tgt Ion:	146	Resp:	417746
Ion Ratio	Lower	Upper	
146	100		
111	44.3	23.0	69.0
148	64.7	31.9	95.7





#77

1,2-Dichlorobenzene

Concen: 11.862 ppbv

RT: 11.943 min Scan# 3663

Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

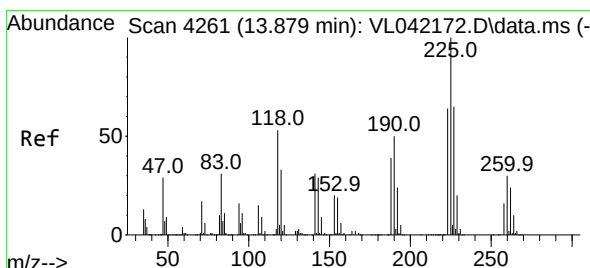
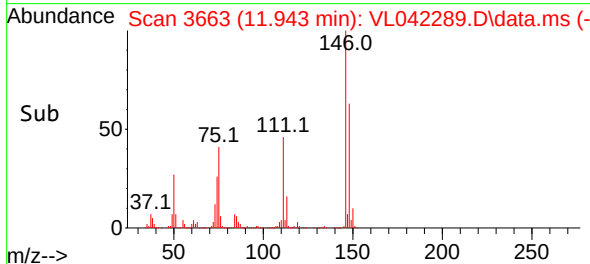
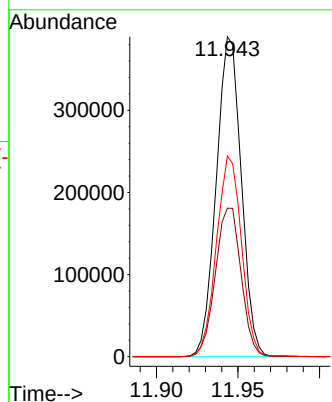
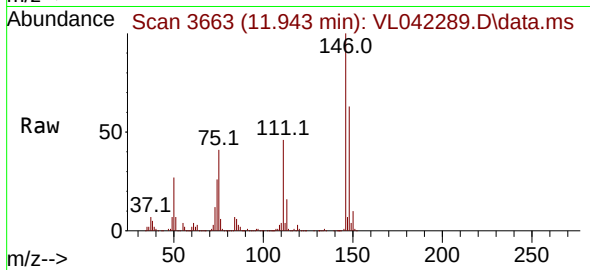
VL0409ABS02

Tgt Ion:	146	Resp:	415780
Ion Ratio	Lower	Upper	
146	100		
111	47.9	24.8	74.3
148	62.8	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#78

Hexachloro-1,3-Butadiene

Concen: 9.302 ppbv

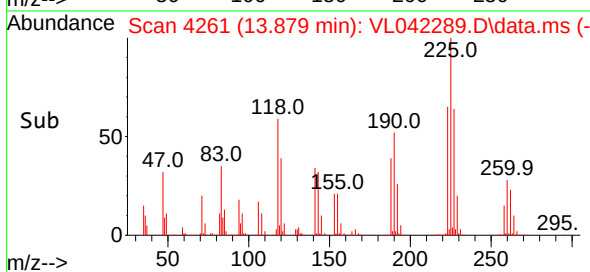
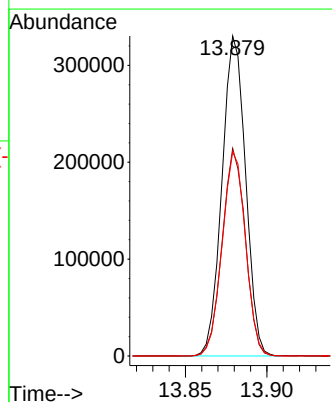
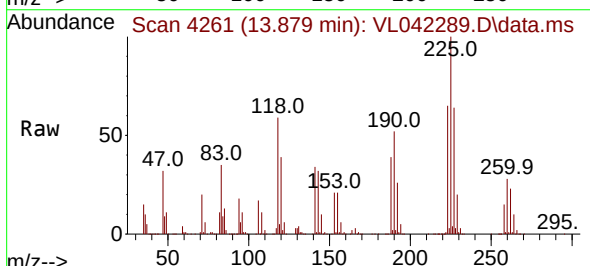
RT: 13.879 min Scan# 4261

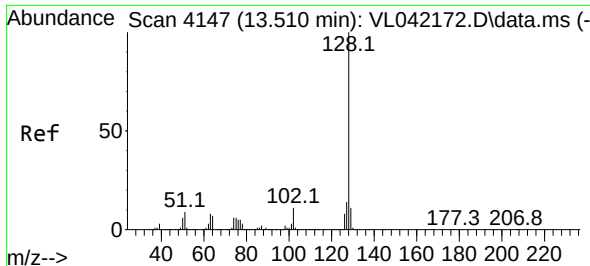
Delta R.T. -0.000 min

Lab File: VL042289.D

Acq: 09 Apr 2025 12:31

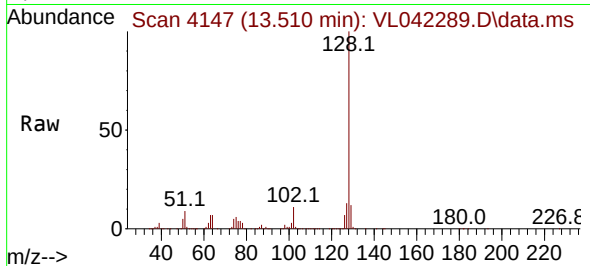
Tgt Ion:	225	Resp:	331886
Ion Ratio	Lower	Upper	
225	100		
223	63.6	50.6	76.0
227	63.3	51.2	76.8





#79
Naphthalene
Concen: 11.288 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31

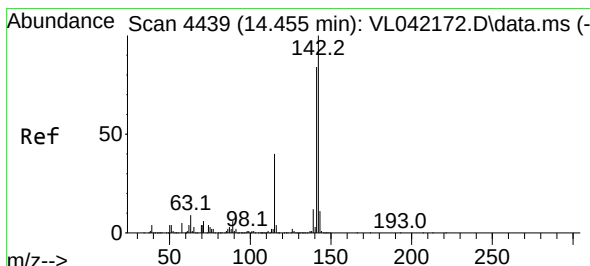
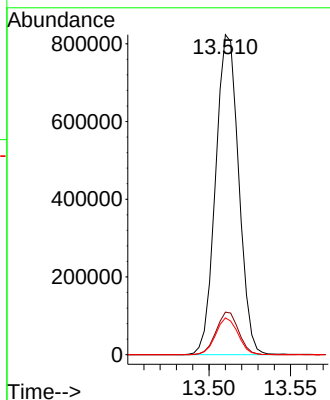
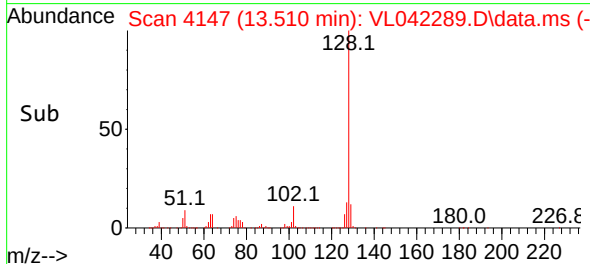
Instrument :
MSVOA_L
ClientSampleId :
VL0409ABS02



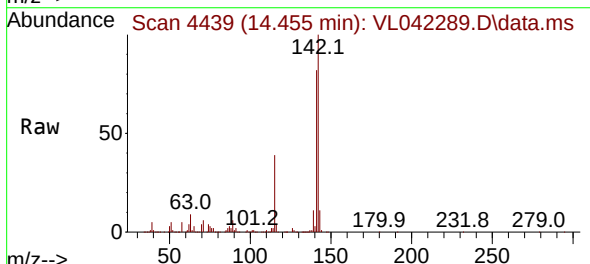
Tgt Ion:128 Resp: 81044
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 11.5 9.0 13.4

Manual Integrations
APPROVED

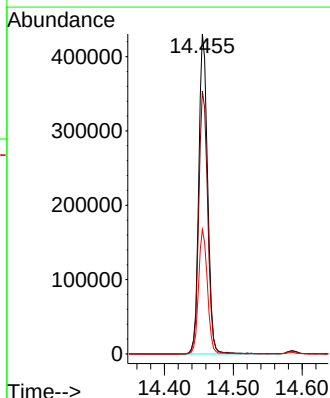
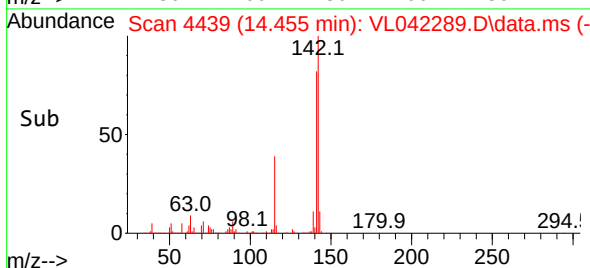
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

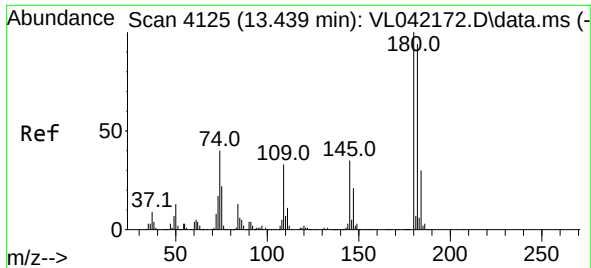


#80
Naphthalene,2-methyl-
Concen: 11.023 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.000 min
Lab File: VL042289.D
Acq: 09 Apr 2025 12:31



Tgt Ion:142 Resp: 388095
Ion Ratio Lower Upper
142 100
141 83.6 66.3 99.5
115 39.2 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 10.802 ppbv

RT: 13.439 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042289.D

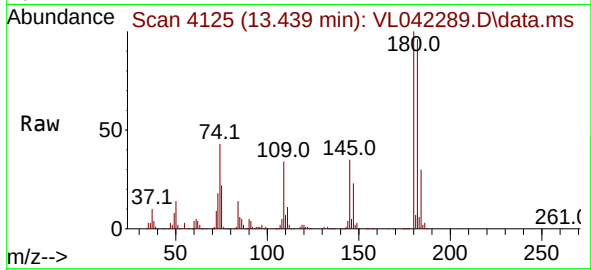
Acq: 09 Apr 2025 12:31

Instrument :

MSVOA_L

ClientSampleId :

VL0409ABS02



Tgt Ion:180 Resp: 35771

Ion Ratio Lower Upper

180 100

182 95.3 75.1 112.7

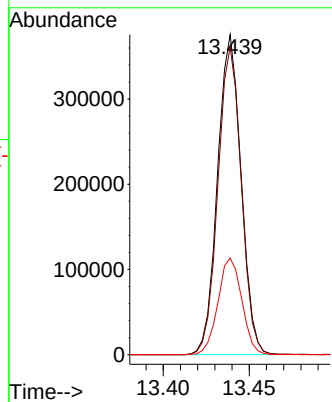
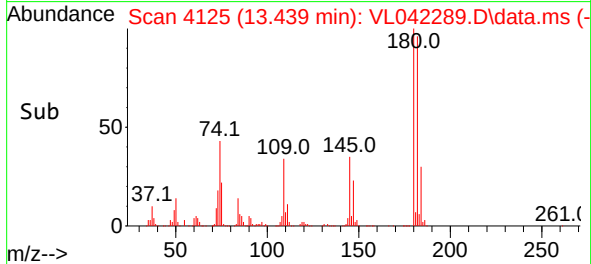
184 30.6 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



Manual Integration Report

Sequence:	VL032725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042172.D	m/p-Xylene	SAM	3/31/2025 11:24:55 AM	MMDadoda	4/3/2025 8:05:09 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	1,4-Dioxane	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	Ethanol	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	m/p-Xylene	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	1,4-Dioxane	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	4-Methyl-2-Pentanone	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Ethanol	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	m/p-Xylene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Methyl Methacrylate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Propene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	t-1,3-Dichloropropene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	trans-1,2-Dichloroethene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Vinyl Acetate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL032725

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042175.D	1,1,2-Trichloroethane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	1,4-Dioxane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	cis-1,3-Dichloropropene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Cyclohexane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	m/p-Xylene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Methyl Methacrylate	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Propene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Tetrahydrofuran	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Trichloroethene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,2-Dibromoethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	Carbon Tetrachloride	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VI032725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042176.D	Trichloroethene	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Carbon Tetrachloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Tetrachloroethene	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Trichloroethene	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Vinyl Chloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC015	VL042178.D	m/p-Xylene	SAM	3/31/2025 11:25:14 AM	MMDadoda	4/3/2025 8:06:09 AM	Peak Integrated by Software
VSTDICV010	VL042179.D	m/p-Xylene	SAM	3/31/2025 11:28:50 AM	MMDadoda	4/3/2025 8:06:14 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl040925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042286.D	m/p-Xylene	SAM	4/10/2025 12:04:04 PM	MMDadoda	4/10/2025 3:39:20 PM	Peak Integrated by Software
VL0409ABS02	VL042289.D	m/p-Xylene	SAM	4/10/2025 12:04:58 PM	MMDadoda	4/10/2025 7:20:47 PM	Peak Integrated by Software
Q1665-01DUP	VL042291.D	Carbon Tetrachloride	SAM	4/10/2025 12:05:09 PM	MMDadoda	4/10/2025 7:20:53 PM	Peak Integrated by Software
Q1665-01DUP	VL042291.D	Chlorodifluoromethane	SAM	4/10/2025 12:05:09 PM	MMDadoda	4/10/2025 7:20:53 PM	Peak Integrated by Software
Q1665-01DUP	VL042291.D	Heptane	SAM	4/10/2025 12:05:09 PM	MMDadoda	4/10/2025 7:20:53 PM	Peak Integrated by Software
Q1665-01DUP	VL042291.D	m/p-Xylene	SAM	4/10/2025 12:05:09 PM	MMDadoda	4/10/2025 7:20:53 PM	Peak Integrated by Software
Q1665-01DUP	VL042291.D	Trichlorofluoromethane	SAM	4/10/2025 12:05:09 PM	MMDadoda	4/10/2025 7:20:53 PM	Peak Integrated by Software
Q1757-02	VL042297.D	Carbon Tetrachloride	SAM	4/10/2025 7:19:56 PM	MMDadoda	4/10/2025 7:21:10 PM	Peak Integrated by Software
Q1757-02	VL042297.D	tert-Butyl alcohol	SAM	4/10/2025 7:19:56 PM	MMDadoda	4/10/2025 7:21:10 PM	Peak Integrated by Software
Q1757-02	VL042297.D	Tetrahydrofuran	SAM	4/10/2025 7:19:56 PM	MMDadoda	4/10/2025 7:21:10 PM	Peak Integrated by Software
Q1757-01	VL042298.D	Chlorodifluoromethane	sam	4/15/2025 4:08:23 AM	MMDadoda	4/15/2025 4:08:57 AM	Peak Integrated by Software
Q1757-01	VL042298.D	Ethanol	sam	4/15/2025 4:08:23 AM	MMDadoda	4/15/2025 4:08:57 AM	Peak Integrated by Software
Q1757-01	VL042298.D	Heptane	sam	4/15/2025 4:08:23 AM	MMDadoda	4/15/2025 4:08:57 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vl040925

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1757-01	VL042298.D	m/p-Xylene	sam	4/15/2025 4:08:23 AM	MMDadoda	4/15/2025 4:08:57 AM	Peak Integrated by Software
Q1757-01	VL042298.D	Tetrachloroethene	sam	4/15/2025 4:08:23 AM	MMDadoda	4/15/2025 4:08:57 AM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042171.D	27 Mar 2025 07:44	SY/MD	Ok
2	VSTDICCC010	VL042172.D	27 Mar 2025 08:26	SY/MD	Ok,M
3	VSTDICCC002	VL042173.D	27 Mar 2025 08:59	SY/MD	Ok,M
4	VSTDICCC001	VL042174.D	27 Mar 2025 09:30	SY/MD	Ok,M
5	VSTDICCC0.5	VL042175.D	27 Mar 2025 10:01	SY/MD	Ok,M
6	VSTDICCC0.1	VL042176.D	27 Mar 2025 10:32	SY/MD	Ok,M
7	VSTDICCC0.03	VL042177.D	27 Mar 2025 11:03	SY/MD	Ok,M
8	VSTDICCC015	VL042178.D	27 Mar 2025 11:36	SY/MD	Ok,M
9	VSTDICV010	VL042179.D	27 Mar 2025 12:23	SY/MD	Ok,M
10	VL0327ABL01	VL042180.D	27 Mar 2025 13:50	SY/MD	Ok
11	VL0327ABS01	VL042181.D	27 Mar 2025 14:39	SY/MD	Ok,M
12	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41	SY/MD	Ok
13	Q1649-01	VL042183.D	27 Mar 2025 17:13	SY/MD	Not Ok
14	Q1649-02	VL042184.D	27 Mar 2025 17:45	SY/MD	Not Ok
15	Q1669-01	VL042185.D	27 Mar 2025 18:22	SY/MD	Dilution
16	Q1669-02	VL042186.D	27 Mar 2025 18:59	SY/MD	Ok,M
17	Q1669-03	VL042187.D	27 Mar 2025 19:36	SY/MD	Ok,M
18	Q1669-04	VL042188.D	27 Mar 2025 20:12	SY/MD	Ok,M
19	Q1669-09	VL042189.D	27 Mar 2025 20:48	SY/MD	Ok,M
20	Q1669-09DUP	VL042190.D	27 Mar 2025 21:24	SY/MD	Ok,M
21	Q1669-05	VL042191.D	27 Mar 2025 21:57	SY/MD	Not Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1669-07DL	VL042192.D	27 Mar 2025 22:29	SY/MD	Ok,M
23	Q1669-08	VL042193.D	27 Mar 2025 23:01	SY/MD	Not Ok
24	VIBLK	VL042194.D	27 Mar 2025 23:34	SY/MD	Ok
25	Q1669-01DL	VL042195.D	28 Mar 2025 00:06	SY/MD	Ok,M
26	Q1669-01DUP	VL042196.D	28 Mar 2025 00:44	SY/MD	Ok,M
27	Q1669-05	VL042197.D	28 Mar 2025 01:20	SY/MD	Ok,M
28	Q1669-07	VL042198.D	28 Mar 2025 01:57	SY/MD	Dilution
29	Q1669-08	VL042199.D	28 Mar 2025 02:33	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL040925

Review By	Semsettin Yesilyurt	Review On	4/10/2025 7:20:08 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/10/2025 7:21:16 PM		
SubDirectory	VL040925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042285.D	09 Apr 2025 09:38	SY/MD	Ok
2	VSTDCCC010	VL042286.D	09 Apr 2025 10:20	SY/MD	Ok,M
3	VL0409ABL01	VL042287.D	09 Apr 2025 11:03	SY/MD	Ok
4	VL0409ABS01	VL042288.D	09 Apr 2025 11:46	SY/MD	Not Ok
5	VL0409ABS02	VL042289.D	09 Apr 2025 12:31	SY/MD	Ok,M
6	Q1665-01	VL042290.D	09 Apr 2025 13:25	SY/MD	Ok,M
7	Q1665-01DUP	VL042291.D	09 Apr 2025 14:02	SY/MD	Ok,M
8	Q1665-04	VL042292.D	09 Apr 2025 14:36	SY/MD	Ok,M
9	Q1665-06	VL042293.D	09 Apr 2025 15:15	SY/MD	Ok,M
10	Q1665-08	VL042294.D	09 Apr 2025 15:50	SY/MD	Ok,M
11	Q1665-09	VL042295.D	09 Apr 2025 16:23	SY/MD	Ok,M
12	Q1665-20	VL042296.D	09 Apr 2025 16:57	SY/MD	Ok,M
13	Q1757-02	VL042297.D	09 Apr 2025 17:31	SY/MD	Ok,M
14	Q1757-01	VL042298.D	10 Apr 2025 07:54	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL032725AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2589		
Initial Calibration Stds	AP2593,AP2595,AP2596		
CCC	AP2593		
Internal Standard/PEM	AP2589		
ICV/I.BLK	AP2594		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042171.D	27 Mar 2025 07:44		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042172.D	27 Mar 2025 08:26		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042173.D	27 Mar 2025 08:59		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042174.D	27 Mar 2025 09:30		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042175.D	27 Mar 2025 10:01		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042176.D	27 Mar 2025 10:32		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042177.D	27 Mar 2025 11:03		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042178.D	27 Mar 2025 11:36		SY/MD	Ok,M
9	VSTDICV010	ICVVL032725	VL042179.D	27 Mar 2025 12:23		SY/MD	Ok,M
10	VL0327ABL01	VL0327ABL01	VL042180.D	27 Mar 2025 13:50		SY/MD	Ok
11	VL0327ABS01	VL0327ABS01	VL042181.D	27 Mar 2025 14:39		SY/MD	Ok,M
12	QC032625 CAN 10448	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41		SY/MD	Ok
13	Q1649-01	SV1	VL042183.D	27 Mar 2025 17:13	rerun 4X,not required	SY/MD	Not Ok
14	Q1649-02	SV2	VL042184.D	27 Mar 2025 17:45	rerun 4X,not required	SY/MD	Not Ok
15	Q1669-01	IA-B9-3-3262025	VL042185.D	27 Mar 2025 18:22	Need 5x	SY/MD	Dilution
16	Q1669-02	IA-B9-2-3262025	VL042186.D	27 Mar 2025 18:59		SY/MD	Ok,M
17	Q1669-03	IA-B9-1-3262025	VL042187.D	27 Mar 2025 19:36		SY/MD	Ok,M
18	Q1669-04	AA-2-3252025	VL042188.D	27 Mar 2025 20:12		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M HP Processing Method VL032725AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2589		
Initial Calibration Stds	AP2593,AP2595,AP2596		
CCC	AP2593		
Internal Standard/PEM	AP2589		
ICV/I.BLK	AP2594		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1669-09	AA-3-3252025	VL042189.D	27 Mar 2025 20:48		SY/MD	Ok,M
20	Q1669-09DUP	AA-3-3252025DUP	VL042190.D	27 Mar 2025 21:24		SY/MD	Ok,M
21	Q1669-05	SSSG-B16-3-3262025	VL042191.D	27 Mar 2025 21:57	Need straight run	SY/MD	Not Ok
22	Q1669-07DL	SSSG-B16-1-3262025	VL042192.D	27 Mar 2025 22:29		SY/MD	Ok,M
23	Q1669-08	SSSG-B16-2-3262025	VL042193.D	27 Mar 2025 23:01	Need straight run	SY/MD	Not Ok
24	VIBLK	VIBLK	VL042194.D	27 Mar 2025 23:34		SY/MD	Ok
25	Q1669-01DL	IA-B9-3-3262025DL	VL042195.D	28 Mar 2025 00:06		SY/MD	Ok,M
26	Q1669-01DUP	IA-B9-3-3262025DUP	VL042196.D	28 Mar 2025 00:44		SY/MD	Ok,M
27	Q1669-05	SSSG-B16-3-3262025	VL042197.D	28 Mar 2025 01:20		SY/MD	Ok,M
28	Q1669-07	SSSG-B16-1-3262025	VL042198.D	28 Mar 2025 01:57	Need 10X	SY/MD	Dilution
29	Q1669-08	SSSG-B16-2-3262025	VL042199.D	28 Mar 2025 02:33		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL040925

Review By	Semsettin Yesilyurt	Review On	4/10/2025 7:20:08 PM
Supervise By	Maresh Dadoda	Supervise On	4/10/2025 7:21:16 PM
SubDirectory	VL040925	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL032725AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2591		
Initial Calibration Stds	AP2593,AP2595,AP2596		
CCC	AP2593		
Internal Standard/PEM	AP2591		
ICV/I.BLK	AP2594		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042285.D	09 Apr 2025 09:38		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042286.D	09 Apr 2025 10:20		SY/MD	Ok,M
3	VL0409ABL01	VL0409ABL01	VL042287.D	09 Apr 2025 11:03		SY/MD	Ok
4	VL0409ABS01	VL0409ABS01	VL042288.D	09 Apr 2025 11:46	Recovery fail	SY/MD	Not Ok
5	VL0409ABS02	VL0409ABS02	VL042289.D	09 Apr 2025 12:31		SY/MD	Ok,M
6	Q1665-01	AA-DUP-1-3242025	VL042290.D	09 Apr 2025 13:25		SY/MD	Ok,M
7	Q1665-01DUP	AA-DUP-1-3242025DU	VL042291.D	09 Apr 2025 14:02		SY/MD	Ok,M
8	Q1665-04	AA-1-3242025	VL042292.D	09 Apr 2025 14:36		SY/MD	Ok,M
9	Q1665-06	IA-B9-1-3242025	VL042293.D	09 Apr 2025 15:15		SY/MD	Ok,M
10	Q1665-08	IA-DUP-2-3242025	VL042294.D	09 Apr 2025 15:50		SY/MD	Ok,M
11	Q1665-09	IA-B9-2-3242025	VL042295.D	09 Apr 2025 16:23		SY/MD	Ok,M
12	Q1665-20	IA-B9-3-3242025	VL042296.D	09 Apr 2025 16:57		SY/MD	Ok,M
13	Q1757-02	IA1	VL042297.D	09 Apr 2025 17:31		SY/MD	Ok,M
14	Q1757-01	SV1	VL042298.D	10 Apr 2025 07:54		SY/MD	Ok,M

M : Manual Integration