



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2507008				Courier : FGALDUN				1 of 2 COCs					
Client ID : GFEL01 Project ID : 64 2nd St., Brooklyn, NY				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix					
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 64 2ND ST. BROOKLYN, NY													
Analysis Turnaround Time 5 DAY				Standard : 10-business-days OR				Data Package Type : RESULTS ONLY									
Rush (Specify): 5 Days				EDD Type : PDF													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
IAI	7/17/25	8:08	10:08	OVER 30	1	74	77	-30	-2.2	10511	10595	6 L	50	VL042564.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) Sut							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										**Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0.0																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: Sut				Date/Time: 07/10/25				Canisters Received by: OR				Date/Time: 7/17/25 1107				B2507008 - 2	
Samples Relinquished by: Sut				Date/Time: 7/17/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information						Bottle Order ID : B2507008				Courier : F. Galdun				✓ of ✓ COCs			
Client ID : GFEL01		Project ID : 64 2nd St., Brooklyn, NY						Sampler Name(s) : FRANK GALDUN				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :		Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified											
		Phone Number : 646-542-3465															
		Fax Number : 973-334-1692															
		Site Details: 64 2ND ST. BROOKLYN, NY															
		Analysis Turnaround Time 5 DAY				Data Package Type :											
		Standard : 10 business days OR				EDD Type :											
		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
OAI	1/17/25	8:11	10:11	29	4.5	70	70	-30	-6.3	10503	10332	6 L	50	VL042564.D	1		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 							
		Ambient		Maximum		Minimum											
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LST. Please follow the instructions on the back of this COC.							
		Ambient		Maximum		Minimum											
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0,0																	
Sampling site (State):																	
Quick Connector required : No																	
Canisters Shipped by: Seamus				Date/Time: 7/16/25				Canisters Received by: AD				Date/Time: 7/17/25 11:07				B2507008 - 1	
Samples Relinquished by: F. Galdun				Date/Time: 7/17/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

REQUESTED ANALYTE LIST:

PCE *Tetrachloroethene*
TCE *Trichloroethene*
cis-1,2-DCE *ene*
1,1,1-TCA *anc*
1,1-DCE *ene*
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Naphthalene
Cyclohexane
2,2,4-Trimethylpentane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-xylene
m,p-xylene
Heptane
Hexane

Laboratory Certification

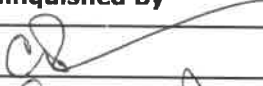
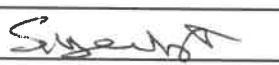
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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>	
<u>NA66</u> :		Title: <u>Sample Custodian</u>	
Field Sample Seal No.: <u>Q2632</u>		Date Broken: <u>7/17/2025</u> Military Time Seal Broken: <u>11:07:00</u>	
Case No.: <u>64 2nd St., Brooklyn, NY</u>		Analytical Parameter/Fraction: <u>VOCMS Group2</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2632-01	IA1		
Q2632-02	OA1 OA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
7/17/25	12:25	Signature 	Signature 	
		Printed Name <u>Catherine Peric</u>	Printed Name <u>Semiseth Yenigun</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	Q2632	OrderDate:	7/17/2025 11:52:00 AM
Client:	GFE LLC	Project:	64 2nd St., Brooklyn, NY
Contact:	Frank Galdun	Location:	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2632-01	IA1	Air	VOCMS Group2	TO-15	07/17/25		07/22/25	07/17/25
Q2632-01DL	IA1DL	Air	VOCMS Group2	TO-15	07/17/25		07/22/25	07/17/25
Q2632-02	OA1	Air	VOCMS Group2	TO-15	07/17/25		07/22/25	07/17/25

Hit Summary Sheet SW-846

SDG No.: Q2632

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	IA1							
Q2632-01	IA1	Air	Heptane	1.60	J	0.70	2.05	ug/m3
Q2632-01	IA1	Air	2,2,4-Trimethylpentane	0.75	J	0.65	2.34	ug/m3
Q2632-01	IA1	Air	Benzene	0.80	J	0.26	1.60	ug/m3
Q2632-01	IA1	Air	Toluene	77.6	E	0.60	1.88	ug/m3
Q2632-01	IA1	Air	Tetrachloroethene	3.66		0.14	0.20	ug/m3
Q2632-01	IA1	Air	Ethyl Benzene	5.65		0.83	2.17	ug/m3
Q2632-01	IA1	Air	m/p-Xylene	34.3		1.78	4.34	ug/m3
Q2632-01	IA1	Air	o-Xylene	19.6		0.91	2.17	ug/m3
Q2632-01	IA1	Air	1,3,5-Trimethylbenzene	22.6		0.88	2.46	ug/m3
Q2632-01	IA1	Air	1,2,4-Trimethylbenzene	54.1		0.88	2.46	ug/m3
Q2632-01	IA1	Air	Naphthalene	4.14	Q	0.050	0.52	ug/m3
Q2632-01	IA1	Air	Hexane	4.58		0.56	1.76	ug/m3
Total Voc :					229			
Total Concentration:					229			
Client ID:	IA1DL							
Q2632-01DL	IA1DL	Air	Toluene	84.0	D	6.03	18.8	ug/m3
Q2632-01DL	IA1DL	Air	Tetrachloroethene	3.66	D	1.02	2.03	ug/m3
Q2632-01DL	IA1DL	Air	m/p-Xylene	34.3	JD	17.8	43.4	ug/m3
Q2632-01DL	IA1DL	Air	o-Xylene	20.4	JD	9.12	21.7	ug/m3
Q2632-01DL	IA1DL	Air	1,3,5-Trimethylbenzene	24.1	JD	8.85	24.6	ug/m3
Q2632-01DL	IA1DL	Air	1,2,4-Trimethylbenzene	58.0	D	8.85	24.6	ug/m3
Q2632-01DL	IA1DL	Air	Hexane	5.99	JD	5.64	17.6	ug/m3
Total Voc :					231			
Total Concentration:					231			
Client ID:	OA1							
Q2632-02	OA1	Air	2,2,4-Trimethylpentane	0.70	J	0.65	2.34	ug/m3
Q2632-02	OA1	Air	Benzene	0.54	J	0.26	1.60	ug/m3
Q2632-02	OA1	Air	Toluene	2.68		0.60	1.88	ug/m3
Q2632-02	OA1	Air	Tetrachloroethene	8.14		0.14	0.20	ug/m3
Q2632-02	OA1	Air	m/p-Xylene	2.04	J	1.78	4.34	ug/m3
Q2632-02	OA1	Air	1,2,4-Trimethylbenzene	1.08	J	0.88	2.46	ug/m3
Q2632-02	OA1	Air	Hexane	1.83		0.56	1.76	ug/m3
Total Voc :					17.0			
Total Concentration:					17.0			



QC SUMMARY

Surrogate Summary

SDG No.: Q2632

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2632-01	IA1	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135
Q2632-01DL	IA1DL	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135
Q2632-01DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
Q2632-02	OA1	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135
VL0722ABL01	VL0722ABL01	1-Bromo-4-Fluorobenzene	10	10.1	101		65	135
VL0722ABS01	VL0722ABS01	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2632</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL042733.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0722ABS01	Vinyl Chloride	10	8.20	ppbv	82			70	130	
	Heptane	10	9.20	ppbv	92			70	130	
	1,1-Dichloroethene	10	9.30	ppbv	93			70	130	
	Cyclohexane	10	9.50	ppbv	95			70	130	
	cis-1,2-Dichloroethene	10	9.40	ppbv	94			70	130	
	1,1,1-Trichloroethane	10	9.50	ppbv	95			70	130	
	2,2,4-Trimethylpentane	10	9.60	ppbv	96			70	130	
	Benzene	10	9.50	ppbv	95			70	130	
	Trichloroethene	10	9.20	ppbv	92			70	130	
	Toluene	10	9.80	ppbv	98			70	130	
	Tetrachloroethene	10	9.20	ppbv	92			70	130	
	Ethyl Benzene	10	9.60	ppbv	96			70	130	
	m/p-Xylene	20	19.5	ppbv	98			70	130	
	o-Xylene	10	9.70	ppbv	97			70	130	
	1,3,5-Trimethylbenzene	10	10.2	ppbv	102			70	130	
	1,2,4-Trimethylbenzene	10	10.1	ppbv	101			70	130	
	Naphthalene	10	13.6	ppbv	136		*	70	130	
	Hexane	10	9.50	ppbv	95			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q2632-01DUP	Q2632-01
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL042741.D	VL042740.D
Anal Date & Time :	07/22/2025 21:12	07/22/2025 20:36

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trimethylbenzene	9.6	11	13.6
1,3,5-Trimethylbenzene	4.1	4.6	11.5
2,2,4-Trimethylpentane	0.17	0.16	6.1
Benzene	0.22	0.25	12.8
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0	0	0
Ethyl Benzene	1.2	1.3	8
Heptane	0.39	0.39	0
Hexane	1.3	1.3	0
m/p-Xylene	6.9	7.9	13.5
Naphthalene	0.74	0.79	6.5
o-Xylene	3.9	4.5	14.3
Tetrachloroethene	0.51	0.54	5.7
Toluene	18.4	20.6	11.3
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

IA1DUP

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2632

Lab File ID: VL042741.D

Lab Sample ID: Q2632-01DUP

Date Analyzed: 07/22/2025

Time Analyzed: 21:12

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
IA1DUP	Q2632-01DUP	VL042741.D	07/22/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0722ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2632

Lab File ID: VL042732.D

Lab Sample ID: VL0722ABL01

Date Analyzed: 07/22/2025

Time Analyzed: 15:41

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
VL0722ABS01	VL0722ABS01	VL042733.D	07/22/2025
IA1	Q2632-01	VL042740.D	07/22/2025
IA1DL	Q2632-01DL	VL042742.D	07/22/2025
OA1	Q2632-02	VL042743.D	07/22/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VL042722.D
Instrument ID: MSVOA_L
GC Column: RTX-1 ID: 0.32 (mm)

Contract: GFEL01
SDG NO.: Q2632
BFB Injection Date: 07/22/2025
BFB Injection Time: 07:25
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.5
75	30.0 - 66.0% of mass 95	58.4
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	0.9 (1.4) 1
174	50.0 - 120.0% of mass 95	64.4
175	4.0 - 9.0% of mass 174	4.9 (7.6) 1
176	93.0 - 101.0% of mass 174	61.7 (95.8) 1
177	5.0 - 9.0% of mass 176	4 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042723.D	07/22/2025	08:55
VSTDICCC002	VSTDICCC002	VL042724.D	07/22/2025	09:30
VSTDICCC001	VSTDICCC001	VL042725.D	07/22/2025	10:04
VSTDICCC0.5	VSTDICCC0.5	VL042726.D	07/22/2025	10:38
VSTDICCC0.03	VSTDICCC0.03	VL042728.D	07/22/2025	11:46
VSTDICCC015	VSTDICCC015	VL042729.D	07/22/2025	12:21
VSTDICCC0.1	VSTDICCC0.1	VL042730.D	07/22/2025	12:56
VL0722ABL01	VL0722ABL01	VL042732.D	07/22/2025	15:41
VL0722ABS01	VL0722ABS01	VL042733.D	07/22/2025	16:32
IA1	Q2632-01	VL042740.D	07/22/2025	20:36
IA1DUP	Q2632-01DUP	VL042741.D	07/22/2025	21:12
IA1DL	Q2632-01DL	VL042742.D	07/22/2025	22:39
OA1	Q2632-02	VL042743.D	07/22/2025	23:15

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
Lab Code: ACE SDG NO.: Q2632
Lab File ID: VL042723.D Date Analyzed: 07/22/2025
Instrument ID: MSVOA_L Time Analyzed: 08:55
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	103624	2.79	320455	3.96	287373	8.88
UPPER LIMIT	145074	3.12	448637	4.29	402322	9.21
LOWER LIMIT	62174.4	2.46	192273	3.63	172424	8.55
EPA SAMPLE NO.						
IA1	107374	2.79	306694	3.96	276267	8.89
IA1DL	114495	2.79	338585	3.96	297519	8.88
IA1DUP	111344	2.78	322913	3.95	292536	8.88
OA1	109401	2.78	323808	3.95	284327	8.88
VL0722ABL01	99924	2.79	300308	3.96	270398	8.89
VL0722ABS01	97823	2.79	290819	3.96	268264	8.89

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
 Lab Code: ACE SDG NO.: Q2632
 Lab File ID: VL042723.D Date Analyzed: 07/22/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:55
 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.						
IA1	0	0.00				
IA1DL	0	0.00				
IA1DUP	0	0.00				
OA1	0	0.00				
VL0722ABL01	0	0.00				
VL0722ABS01	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:	07/17/25
Project:	64 2nd St., Brooklyn, NY	Date Received:	07/17/25
Client Sample ID:	IA1	SDG No.:	Q2632
Lab Sample ID:	Q2632-01	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
VL042740.D	1		07/22/25 20:36	VL072225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
142-82-5	Heptane	0.39	1.60	J	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	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	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.16	0.75	J	0.65	2.34	ug/m3
71-43-2	Benzene	0.25	0.80	J	0.26	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	20.6	77.6	E	0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	0.54	3.66		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	1.30	5.65		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	7.90	34.3		1.78	4.34	ug/m3
95-47-6	o-Xylene	4.50	19.6		0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.60	22.6		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	11.0	54.1		0.88	2.46	ug/m3
91-20-3	Naphthalene	0.79	4.14	Q	0.050	0.52	ug/m3
110-54-3	Hexane	1.30	4.58		0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	107000		2.79			
540-36-3	1,4-Difluorobenzene	307000		3.962			
3114-55-4	Chlorobenzene-d5	276000		8.885			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042740.D
 Acq On : 22 Jul 2025 20:36
 Operator : SY/MD
 Sample : Q2632-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 03:05:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 02:51:39 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	107374	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	306694	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276267	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	234821	10.517	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	7326	0.437	ppbv	90
3) Chlorodifluoromethane	1.476	51	5244m	0.277	ppbv	
4) Chloromethane	1.534	50	4350	0.634	ppbv #	85
9) Propene	1.489	41	13086m	1.946	ppbv	
10) Heptane	4.985	43	7374	0.394	ppbv	94
11) Trichlorofluoromethane	1.881	101	3824	0.222	ppbv	95
13) Ethanol	1.722	45	177250	156.653	ppbv	98
15) Acetone	1.835	43	1326002	73.756	ppbv	91
19) Isopropyl Alcohol	1.887	45	210865	22.131	ppbv #	1
26) Hexane	2.829	57	19564	1.344	ppbv #	59
34) 2-Butanone	2.557	43	118114	5.593	ppbv	97
35) Carbon Tetrachloride	3.764	117	1727m	0.069	ppbv	
36) Benzene	3.658	78	7046	0.247	ppbv #	88
37) 1,2-Dichloroethane	3.221	62	40202	2.212	ppbv	99
44) 2,2,4-Trimethylpentane	4.651	57	7547m	0.161	ppbv	
50) 4-Methyl-2-Pentanone	5.758	43	110761	4.002	ppbv	99
51) 2-Hexanone	7.444	43	9850m	0.446	ppbv	
52) Tetrachloroethene	8.231	164	6200m	0.540	ppbv	
53) Toluene	6.936	91	661664	20.596	ppbv	100
58) Ethyl Benzene	9.360	91	62250	1.349	ppbv	97
59) m/p-Xylene	9.532	91	290932	7.880	ppbv	97
60) o-Xylene	9.966	91	167095	4.483	ppbv	100
61) Styrene	9.875	104	24847	1.547	ppbv	98
62) Isopropylbenzene	10.542	105	29256	0.528	ppbv	98
64) n-propylbenzene	10.992	120	20874	1.493	ppbv	88
69) p-Isopropyltoluene	11.927	119	98817	1.732	ppbv	99
70) n-Butylbenzene	12.283	91	25400m	0.466	ppbv	
72) 4-Ethyltoluene	11.128	105	101468	2.283	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.205	105	168163	4.574	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	444602	11.022	ppbv #	58
76) 1,4-Dichlorobenzene	11.671	146	3848	0.147	ppbv #	1
79) Naphthalene	13.513	128	23811	0.789	ppbv	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
Data File : VL042740.D
Acq On : 22 Jul 2025 20:36
Operator : SY/MD
Sample : Q2632-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

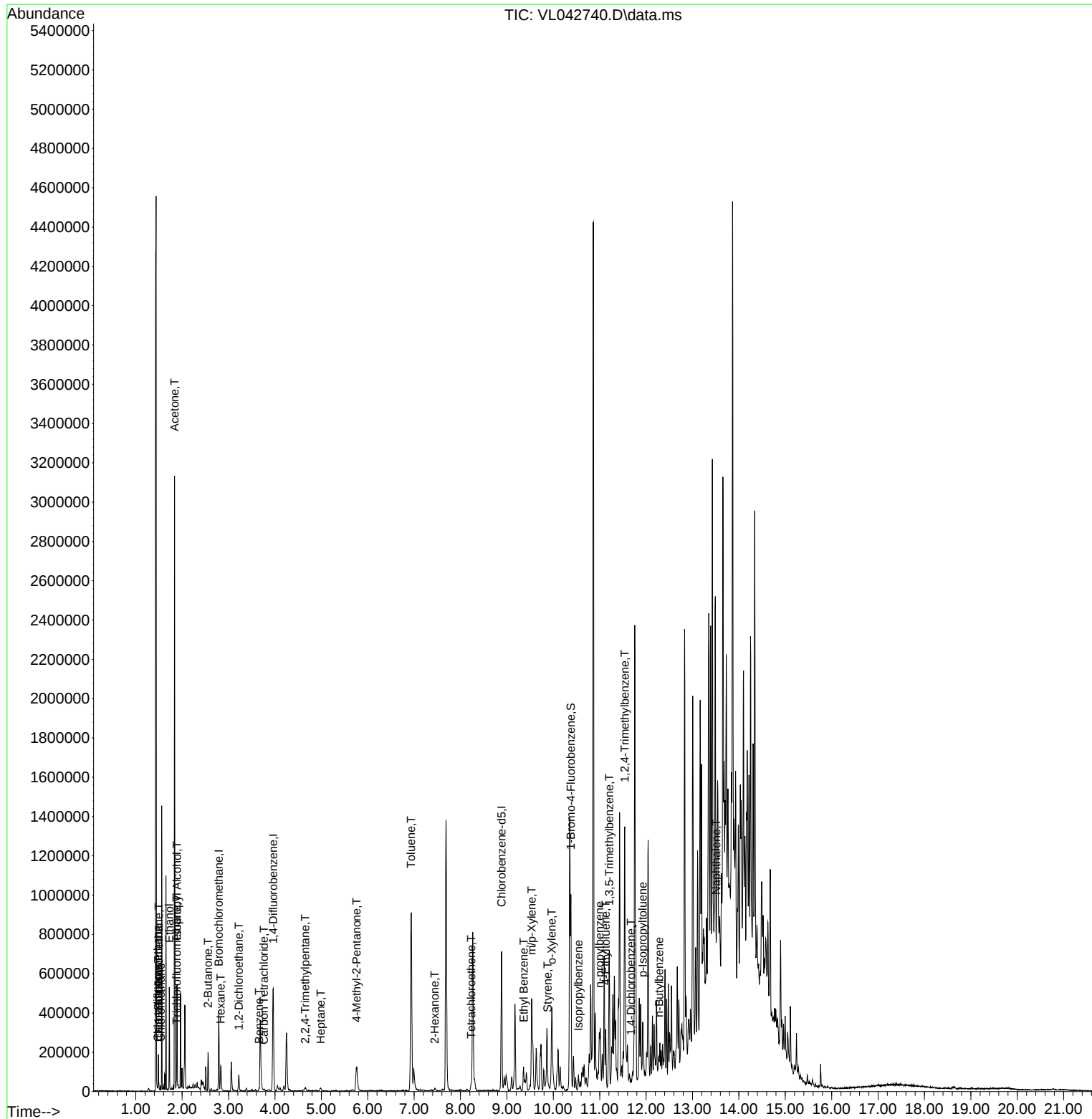
Quant Time: Jul 23 03:05:57 2025

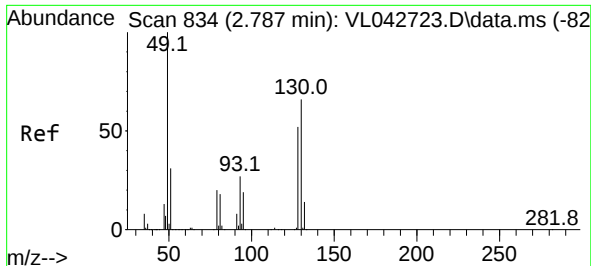
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 02:51:39 2025

Response via : Initial Calibration





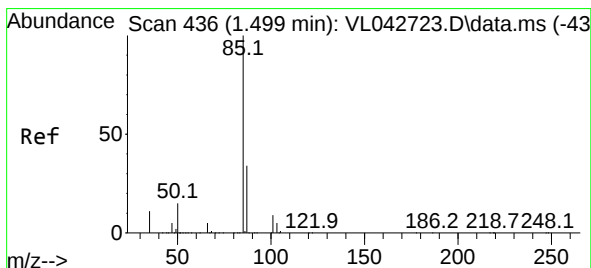
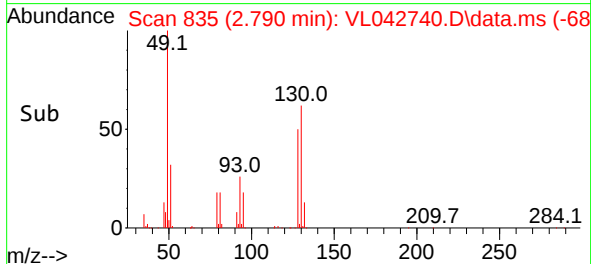
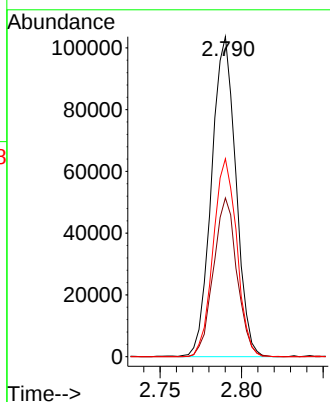
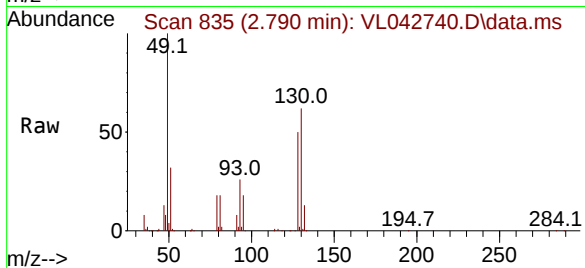
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 107374
Ion Ratio Lower Upper
49 100
128 47.9 24.5 73.5
130 59.9 31.7 95.1

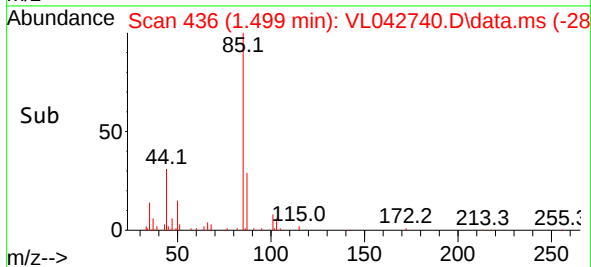
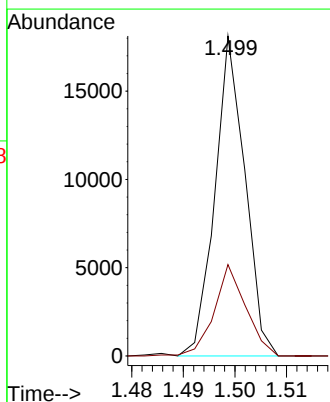
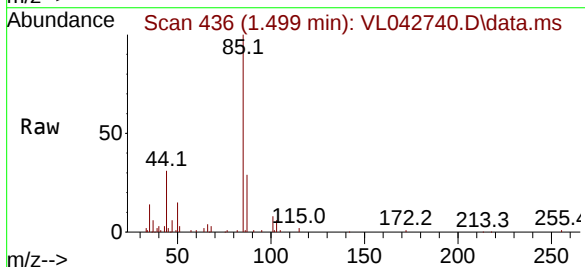
Manual Integrations
APPROVED

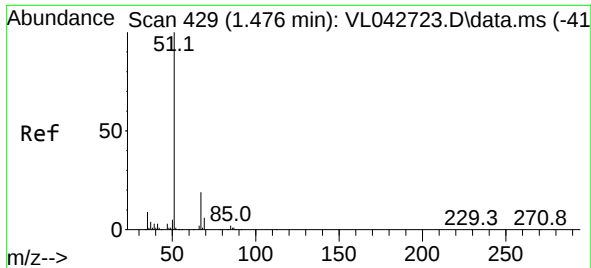
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#2
Dichlorodifluoromethane
Concen: 0.437 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

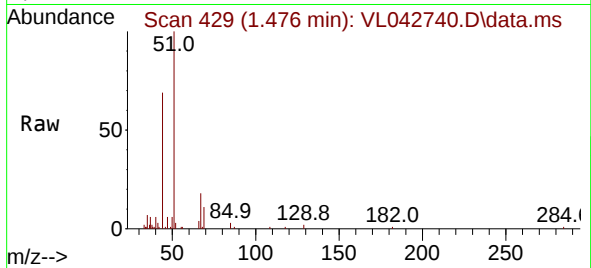
Tgt Ion: 85 Resp: 7326
Ion Ratio Lower Upper
85 100
87 28.5 27.5 41.3





#3
Chlorodifluoromethane
Concen: 0.277 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

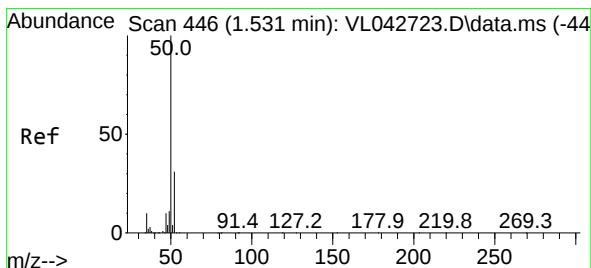
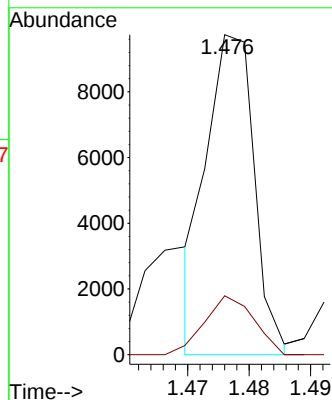
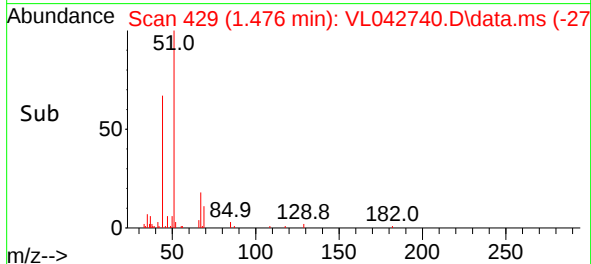
Instrument :
MSVOA_L
ClientSampleId :
IA1



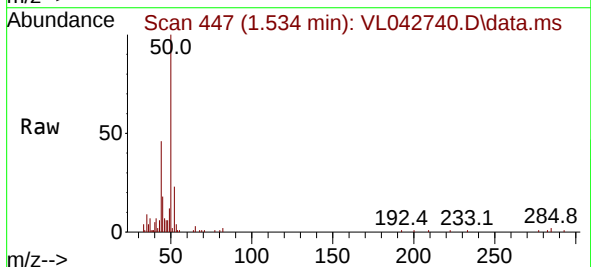
Tgt Ion: 51 Resp: 5244
Ion Ratio Lower Upper
51 100
67 5.6 16.0 24.0

Manual Integrations
APPROVED

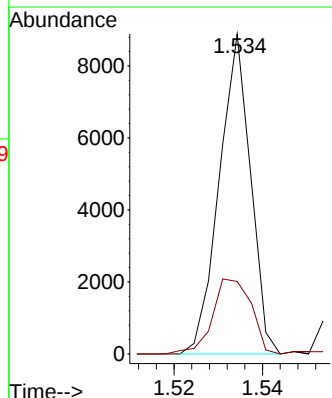
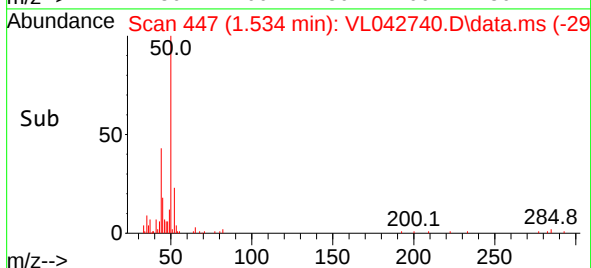
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

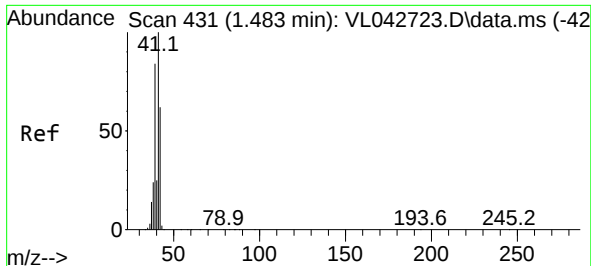


#4
Chloromethane
Concen: 0.634 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36



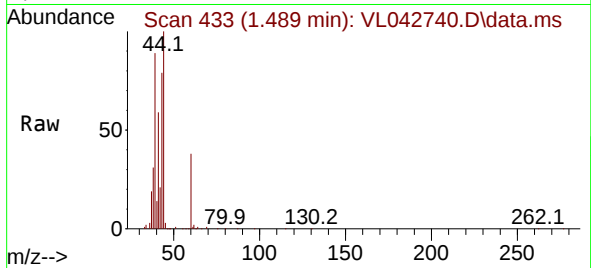
Tgt Ion: 50 Resp: 4350
Ion Ratio Lower Upper
50 100
52 22.6 24.9 37.3





#9
 Propene
 Concen: 1.946 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042740.D
 Acq: 22 Jul 2025 20:36

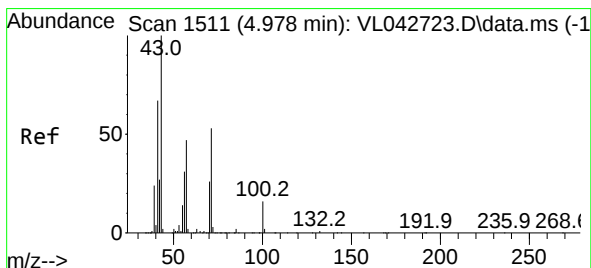
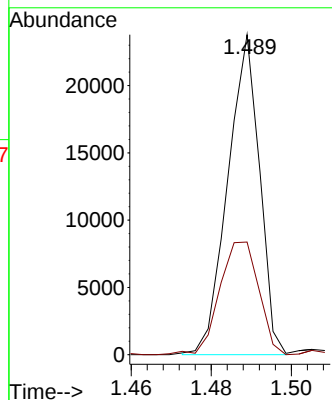
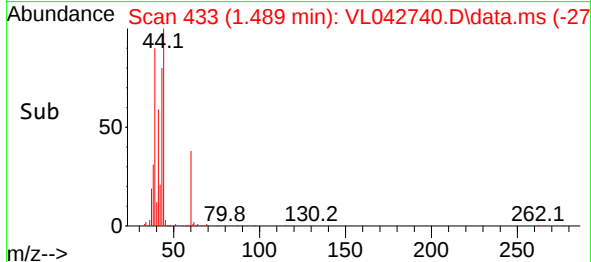
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



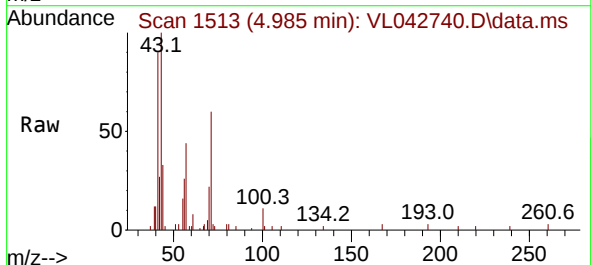
Tgt Ion: 41 Resp: 13080
 Ion Ratio Lower Upper
 41 100
 42 109.5 52.0 78.0

Manual Integrations
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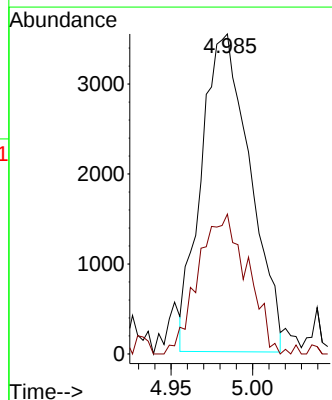
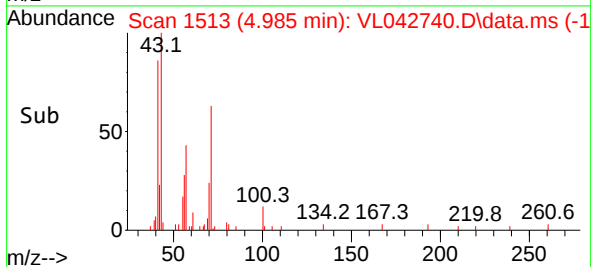
Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

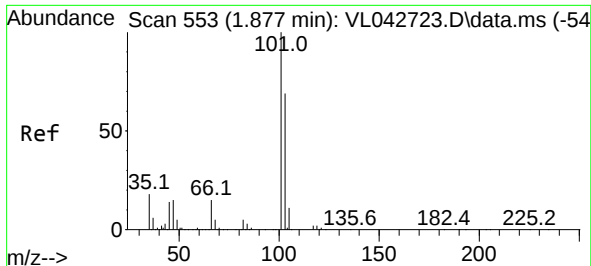


#10
 Heptane
 Concen: 0.394 ppbv
 RT: 4.985 min Scan# 1513
 Delta R.T. 0.006 min
 Lab File: VL042740.D
 Acq: 22 Jul 2025 20:36



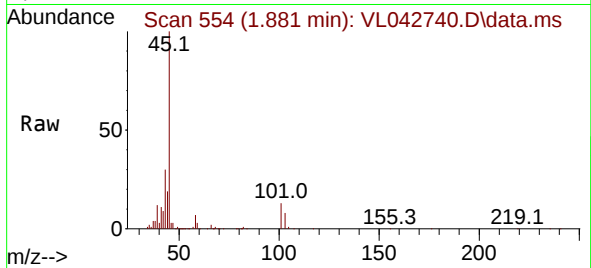
Tgt Ion: 43 Resp: 7374
 Ion Ratio Lower Upper
 43 100
 57 44.9 39.1 58.7





#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.881 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

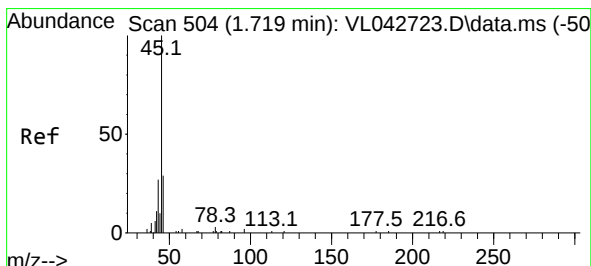
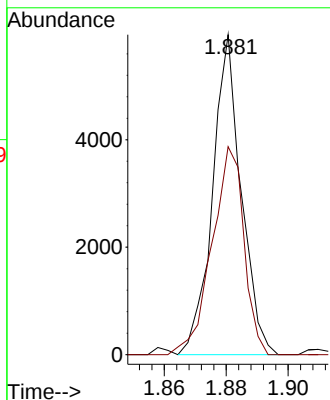
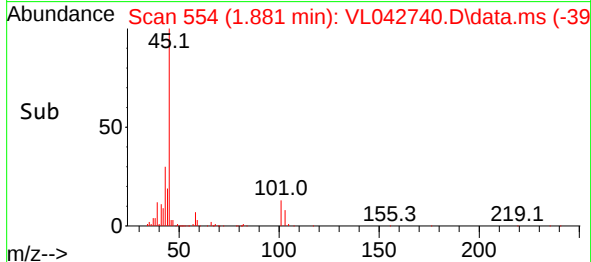
Instrument :
MSVOA_L
ClientSampleId :
IA1



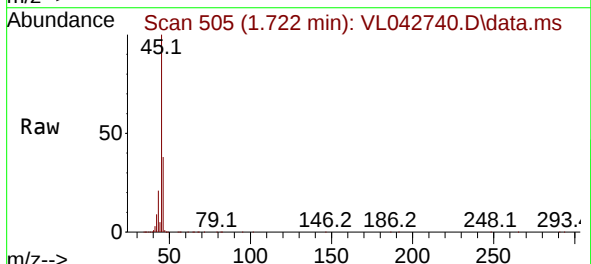
Tgt Ion:101 Resp: 3824
Ion Ratio Lower Upper
101 100
103 65.0 55.2 82.8

Manual Integrations
APPROVED

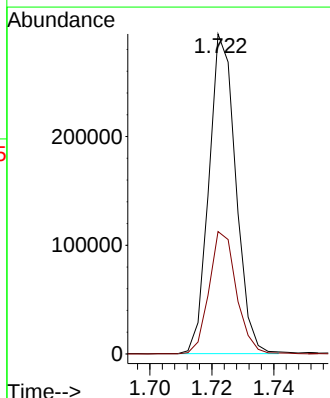
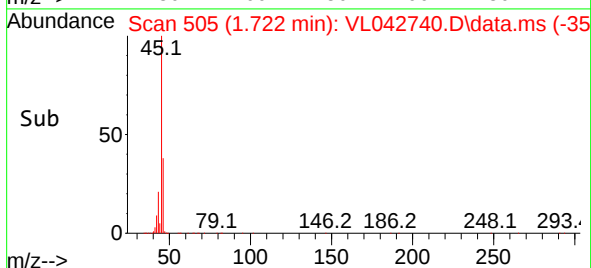
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

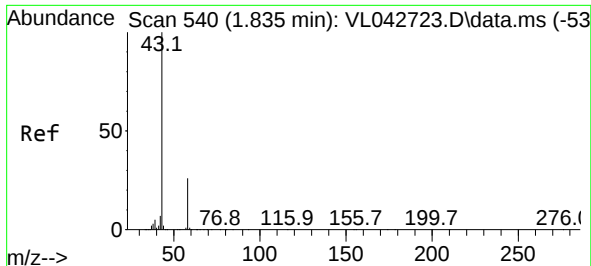


#13
Ethanol
Concen: 156.653 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36



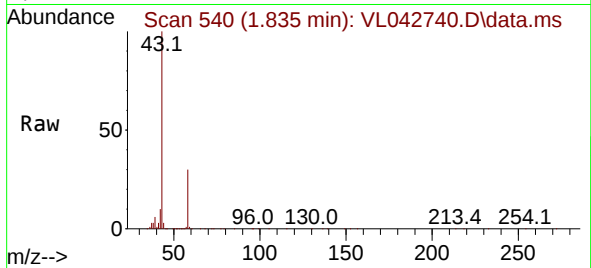
Tgt Ion: 45 Resp: 177250
Ion Ratio Lower Upper
45 100
46 39.4 16.3 65.1





#15
Acetone
Concen: 73.756 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

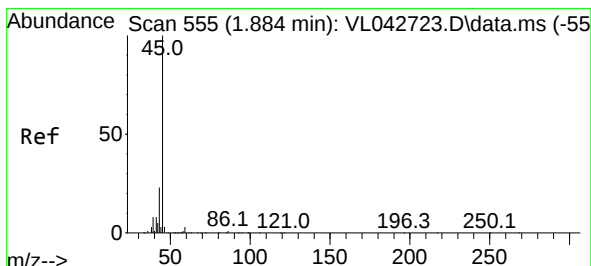
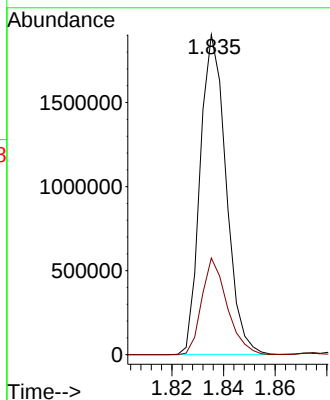
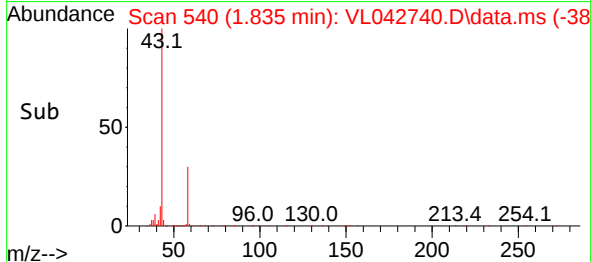
Instrument :
MSVOA_L
ClientSampleId :
IA1



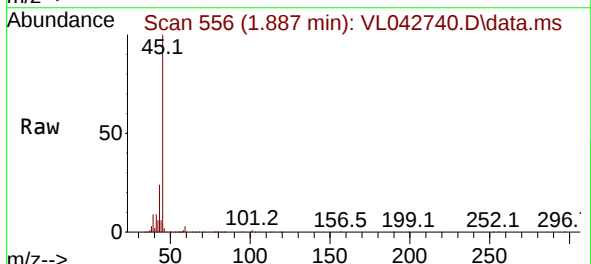
Tgt Ion: 43 Resp: 1326002
Ion Ratio Lower Upper
43 100
58 30.2 20.5 30.7

Manual Integrations
APPROVED

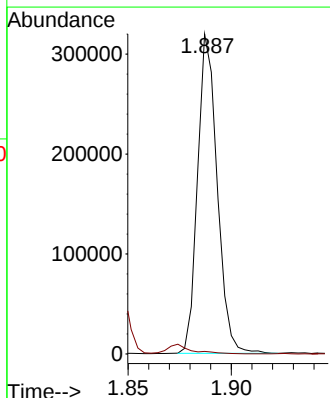
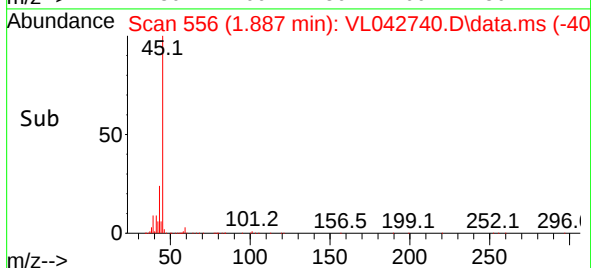
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

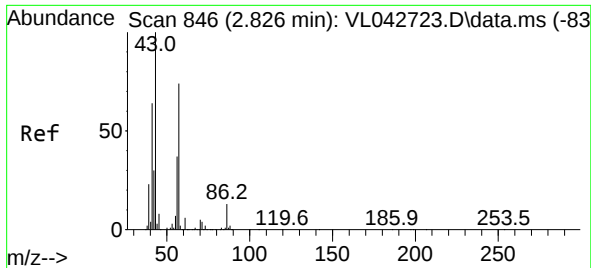


#19
Isopropyl Alcohol
Concen: 22.131 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36



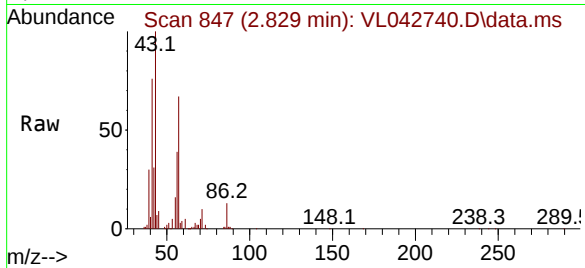
Tgt Ion: 45 Resp: 210865
Ion Ratio Lower Upper
45 100
58 189.7 30.6 46.0#





#26
Hexane
Concen: 1.344 ppbv
RT: 2.829 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

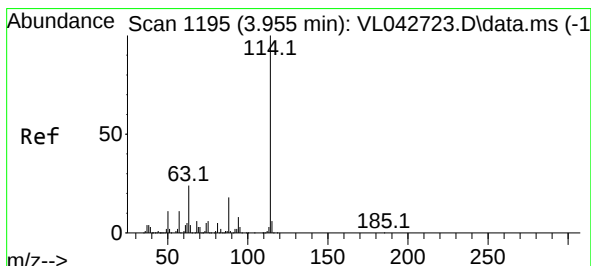
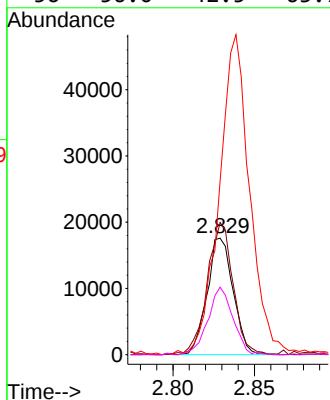
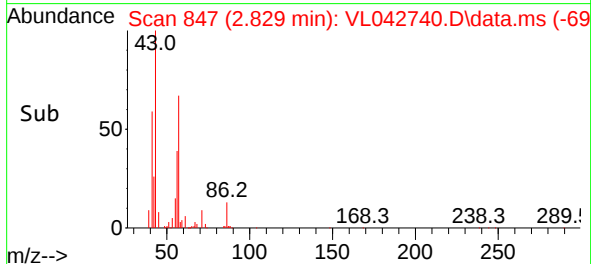
Instrument :
MSVOA_L
ClientSampleId :
IA1



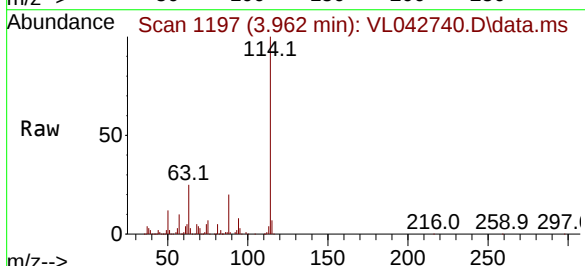
Tgt Ion: 57 Resp: 19564
Ion Ratio Lower Upper
57 100
41 113.2 77.3 115.9
43 326.8 182.3 273.5
56 56.0 42.5 63.7

Manual Integrations
APPROVED

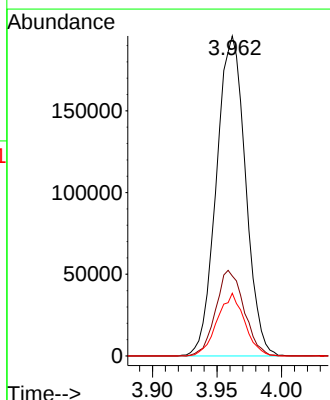
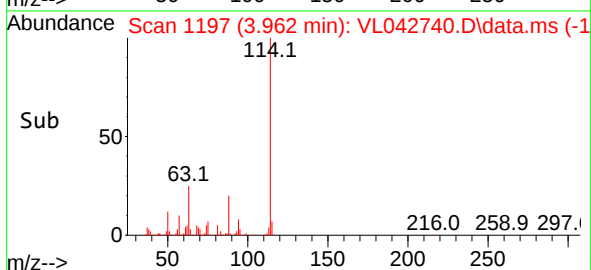
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

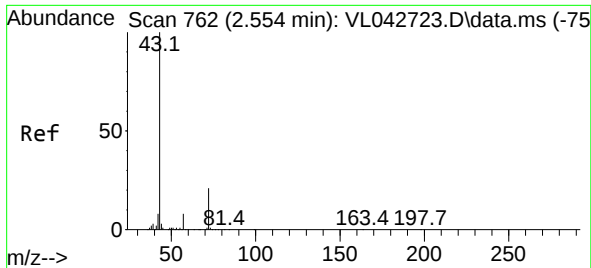


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36



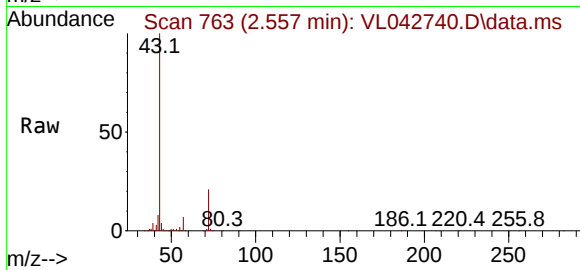
Tgt Ion:114 Resp: 306694
Ion Ratio Lower Upper
114 100
63 26.2 20.4 30.6
88 18.4 14.5 21.7





#34
2-Butanone
Concen: 5.593 ppbv
RT: 2.557 min Scan# 762
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

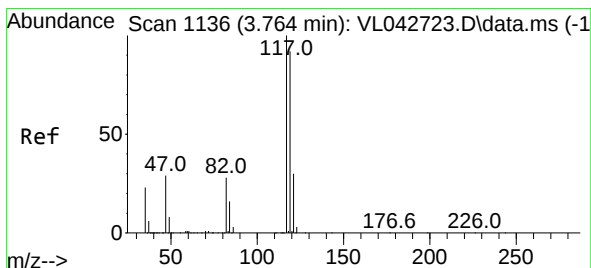
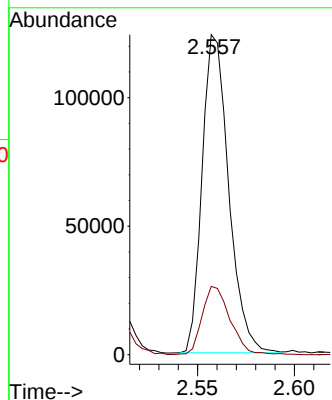
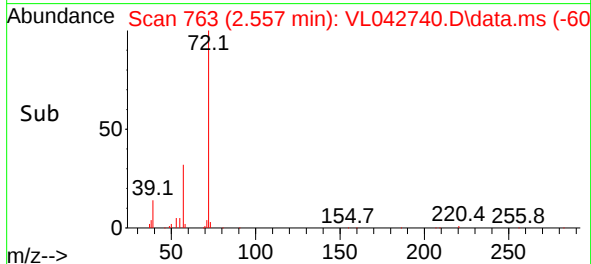
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 118114
Ion Ratio Lower Upper
43 100
72 22.6 17.0 25.6

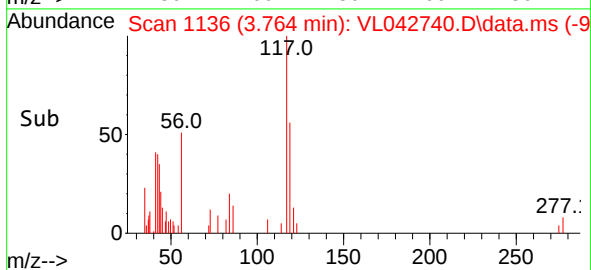
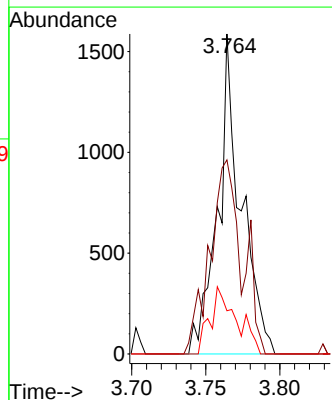
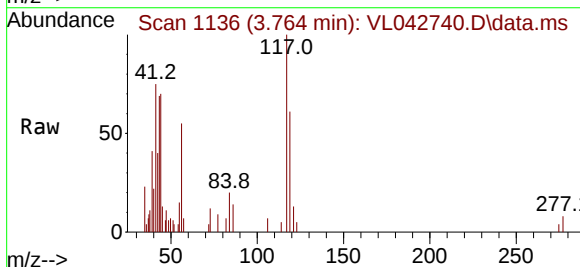
Manual Integrations
APPROVED

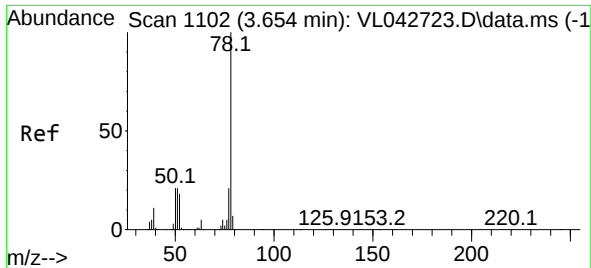
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 3.764 min Scan# 1136
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion:117 Resp: 1727
Ion Ratio Lower Upper
117 100
119 60.6 73.7 110.5#
121 13.5 23.8 35.8#





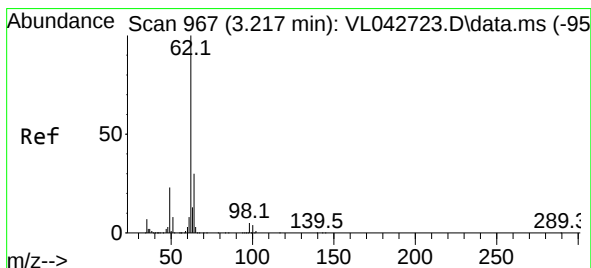
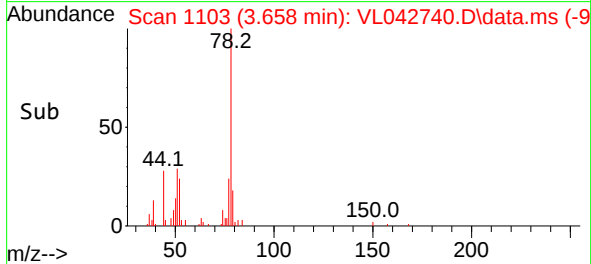
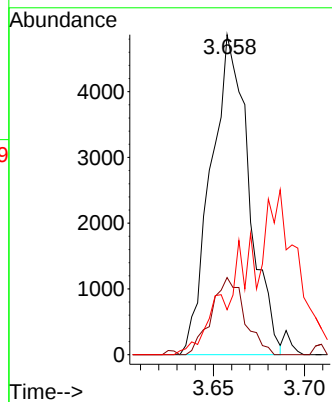
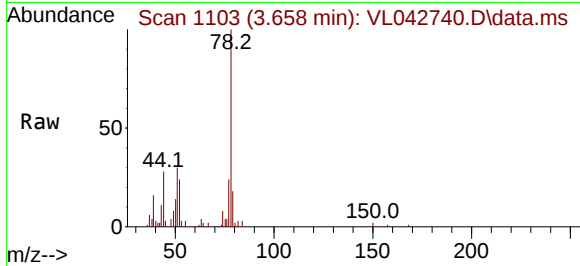
#36
Benzene
Concen: 0.247 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 78 Resp: 7040
Ion Ratio Lower Upper
78 100
77 24.1 17.0 25.4
50 12.8 16.9 25.3

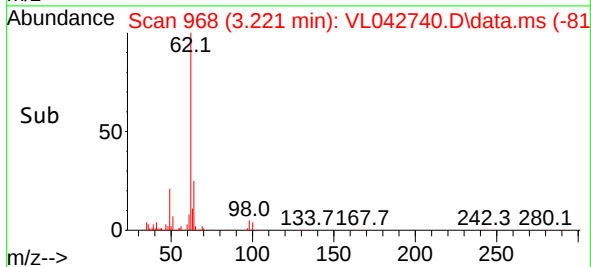
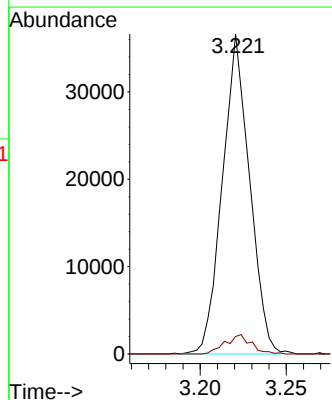
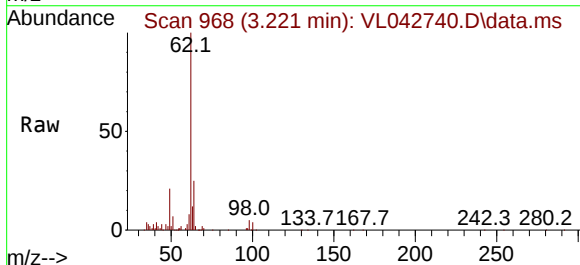
Manual Integrations
APPROVED

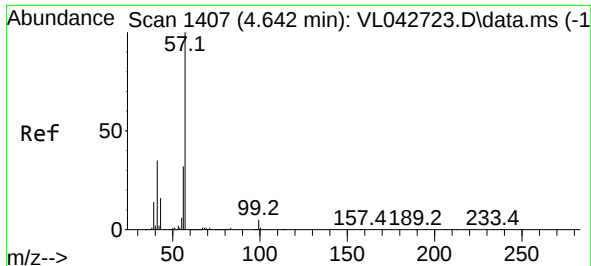
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#37
1,2-Dichloroethane
Concen: 2.212 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion: 62 Resp: 40202
Ion Ratio Lower Upper
62 100
98 5.8 4.8 7.2





#44

2,2,4-Trimethylpentane

Concen: 0.161 ppbv

RT: 4.651 min Scan# 1407

Delta R.T. 0.010 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

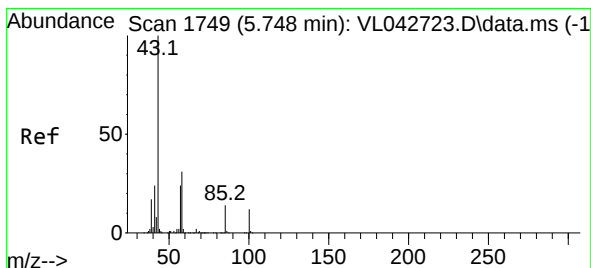
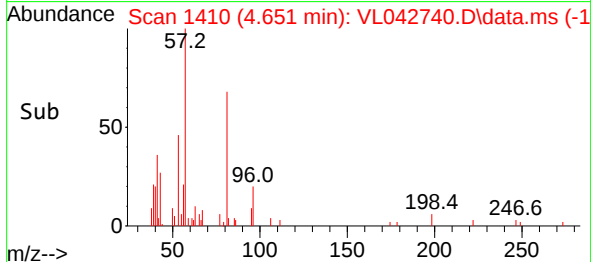
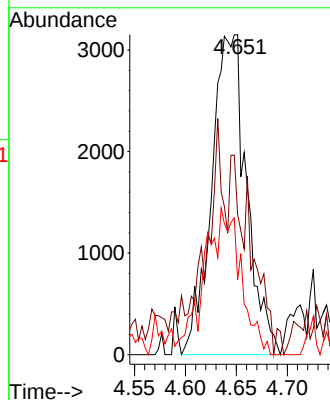
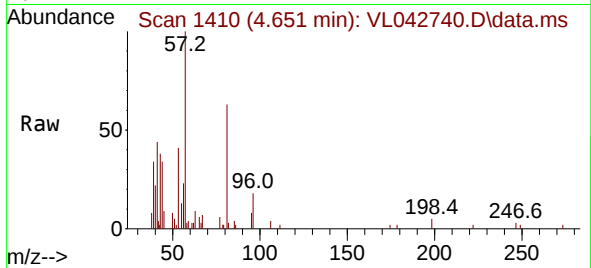
Tgt Ion: 57	Resp: 754
Ion Ratio	Lower Upper
57 100	
41 0.0	29.4 44.0
56 0.0	26.1 39.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/23/2025

Supervised By :Mahesh Dadoda 07/23/2025



#50

4-Methyl-2-Pentanone

Concen: 4.002 ppbv

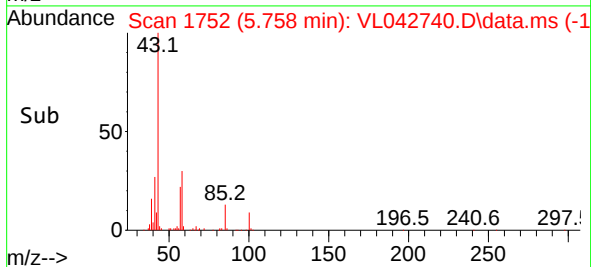
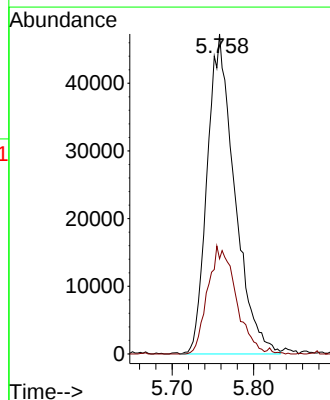
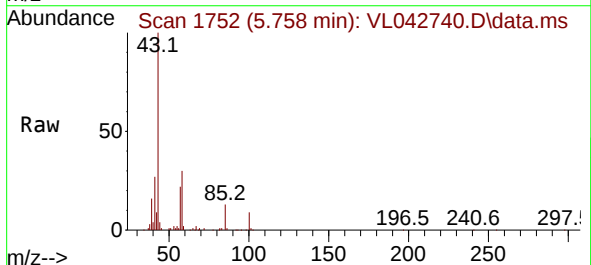
RT: 5.758 min Scan# 1752

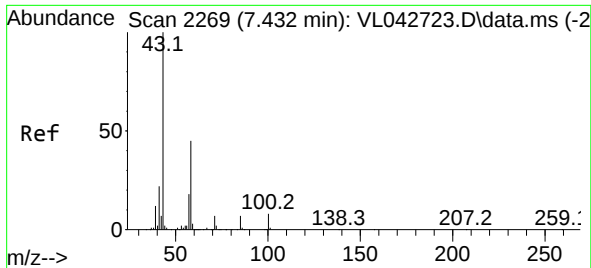
Delta R.T. 0.010 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

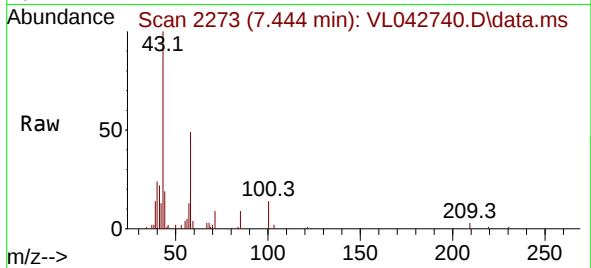
Tgt Ion: 43	Resp: 110761
Ion Ratio	Lower Upper
43 100	
58 35.0	27.6 41.4





#51
2-Hexanone
Concen: 0.446 ppbv m
RT: 7.444 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

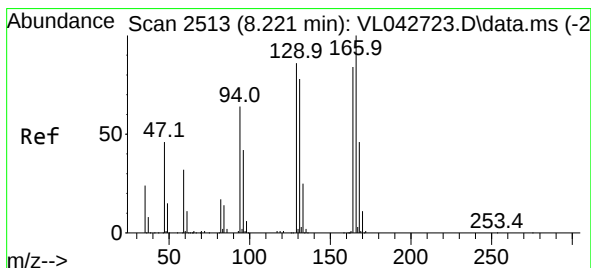
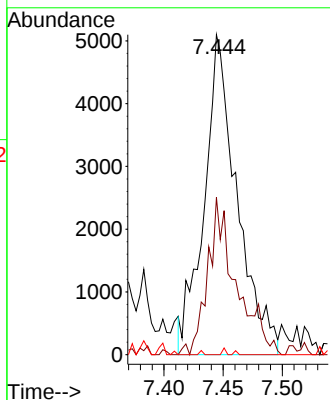
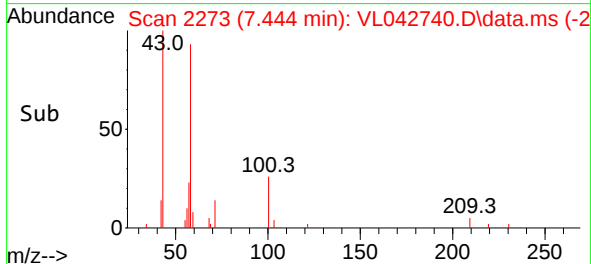
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 9850
Ion Ratio Lower Upper
43 100
58 43.9 37.9 56.9
98 1.9 0.2 0.2

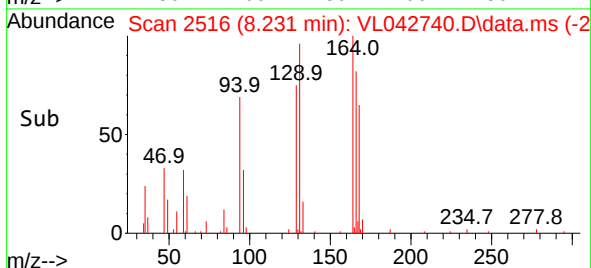
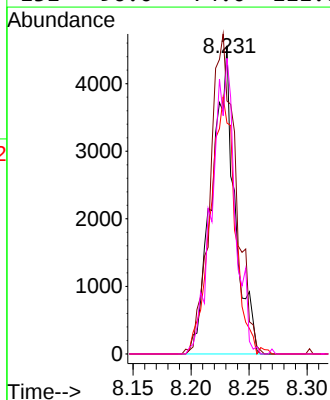
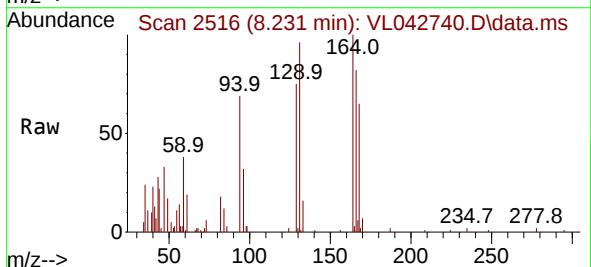
Manual Integrations
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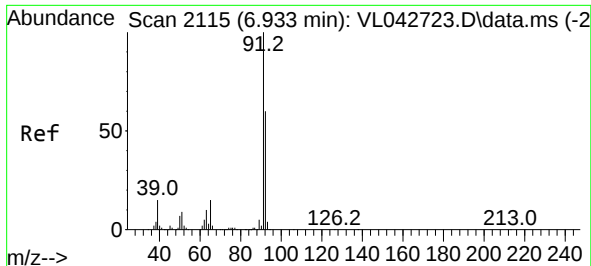
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#52
Tetrachloroethene
Concen: 0.540 ppbv m
RT: 8.231 min Scan# 2516
Delta R.T. 0.010 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Tgt Ion:164 Resp: 6200
Ion Ratio Lower Upper
164 100
166 82.1 95.1 142.7#
129 74.9 81.9 122.9#
131 96.0 74.0 111.0





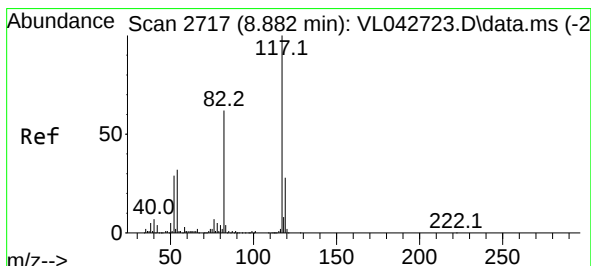
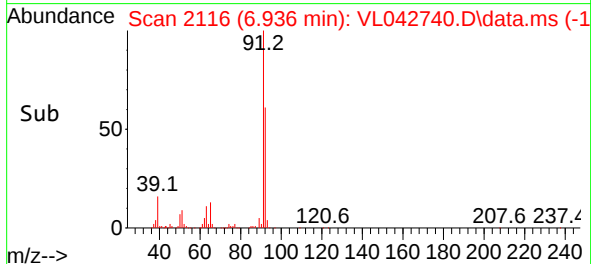
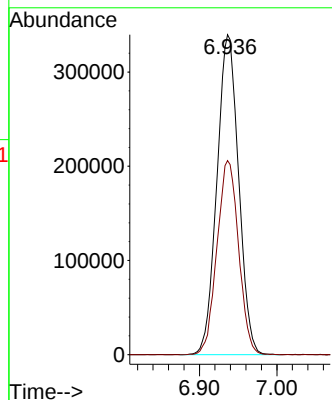
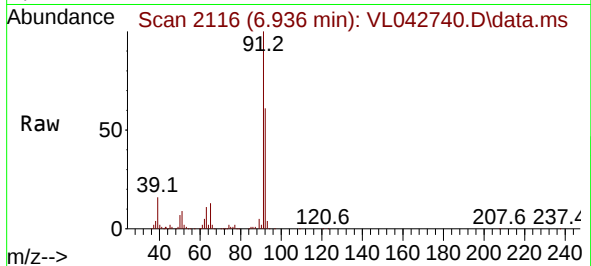
#53
Toluene
Concen: 20.596 ppbv
RT: 6.936 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 661664
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4

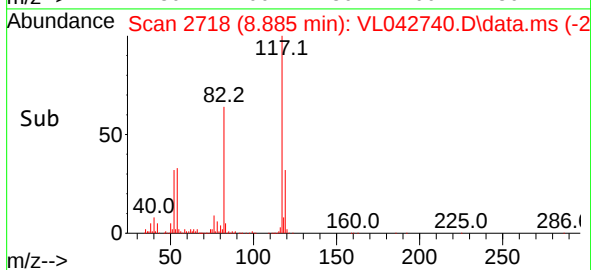
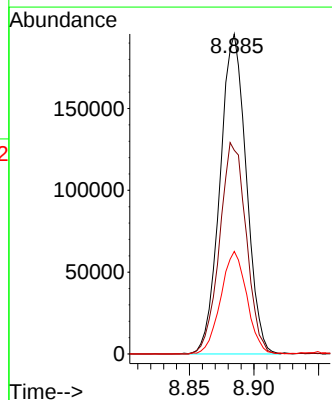
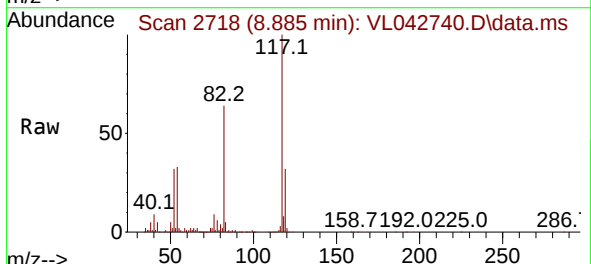
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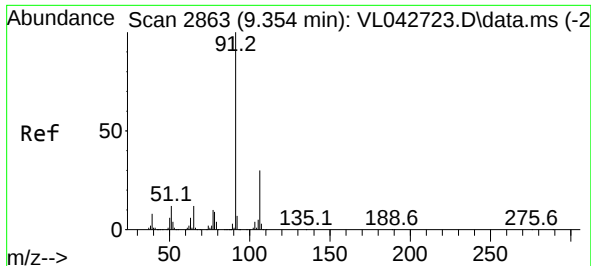
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

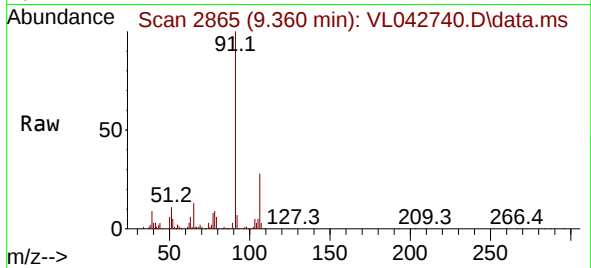
Tgt Ion:117 Resp: 276267
Ion Ratio Lower Upper
117 100
82 67.1 54.6 81.8
119 32.0 25.3 37.9





#58
Ethyl Benzene
Concen: 1.349 ppbv
RT: 9.360 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

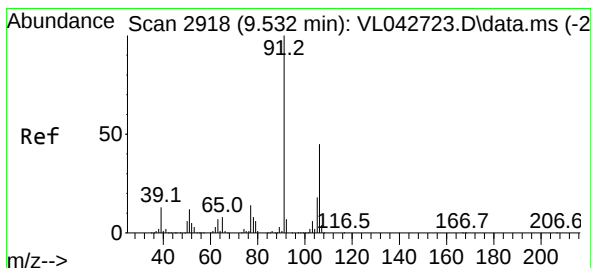
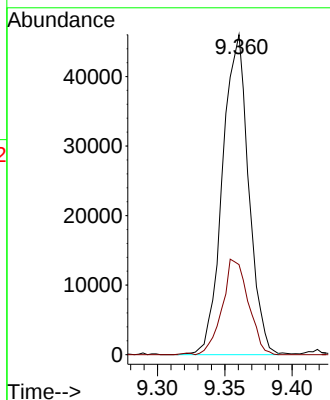
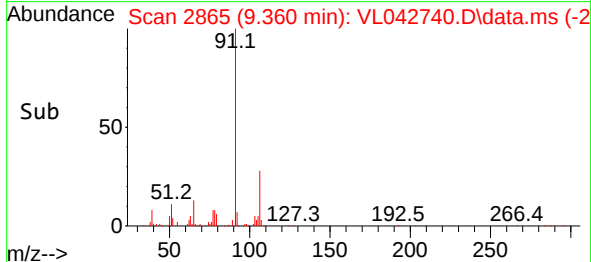
Instrument :
MSVOA_L
ClientSampleId :
IA1



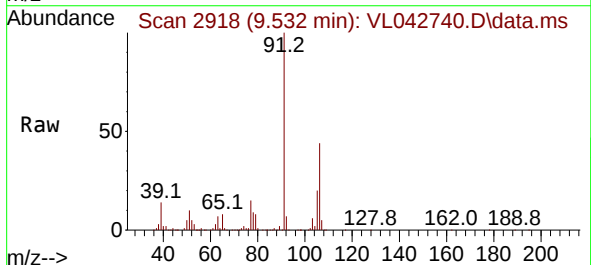
Tgt Ion: 91 Resp: 62250
Ion Ratio Lower Upper
91 100
106 28.2 23.7 35.5

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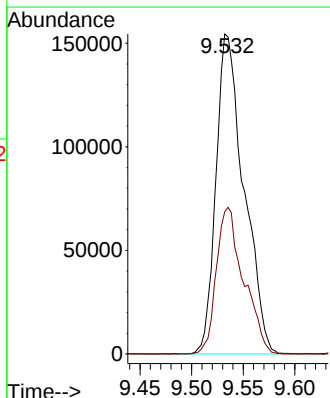
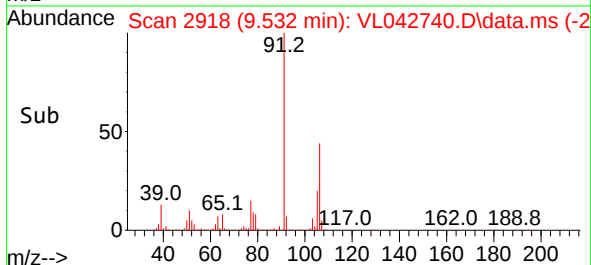
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

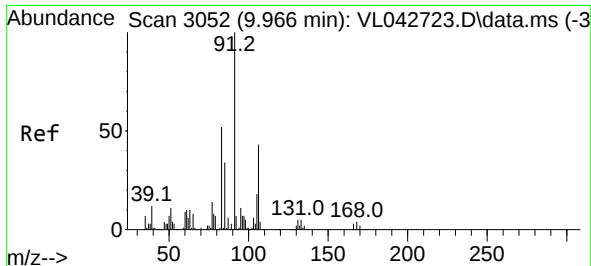


#59
m/p-Xylene
Concen: 7.880 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36



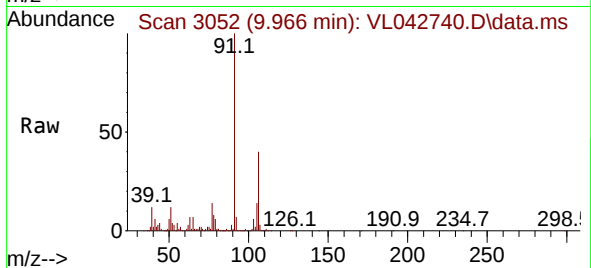
Tgt Ion: 91 Resp: 290932
Ion Ratio Lower Upper
91 100
106 44.7 37.3 55.9





#60
o-Xylene
Concen: 4.483 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

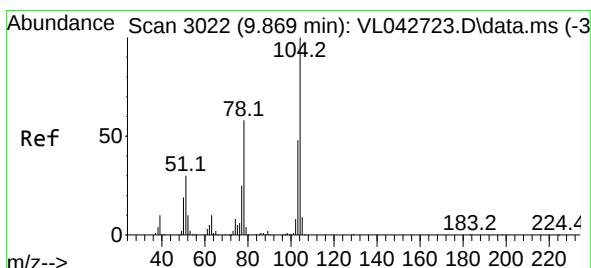
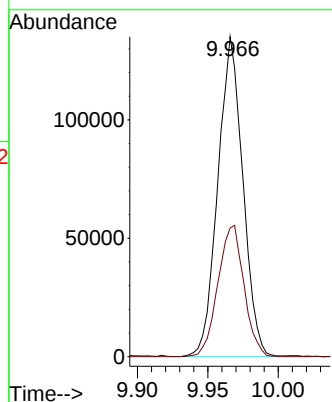
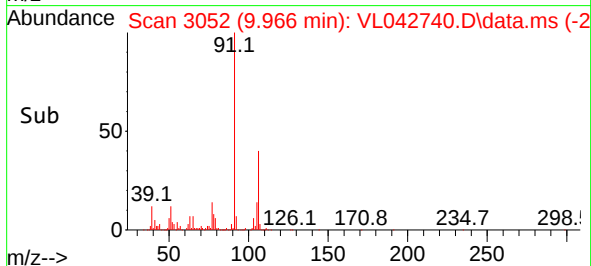
Instrument :
MSVOA_L
ClientSampleId :
IA1



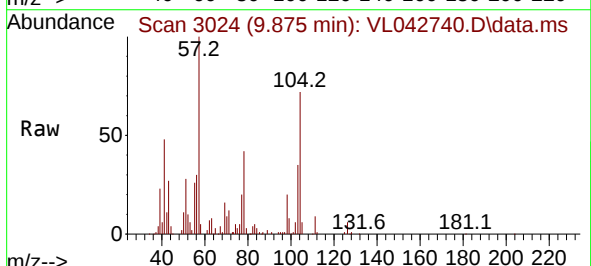
Tgt Ion: 91 Resp: 16709
Ion Ratio Lower Upper
91 100
106 42.7 21.4 64.3

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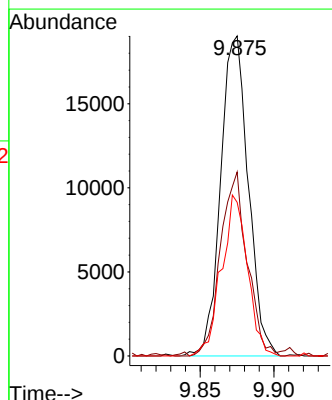
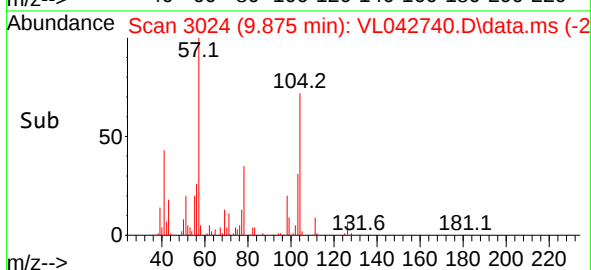
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

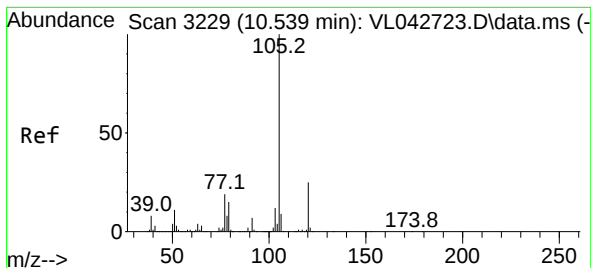


#61
Styrene
Concen: 1.547 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36



Tgt Ion:104 Resp: 24847
Ion Ratio Lower Upper
104 100
78 57.2 43.4 65.2
103 47.3 37.8 56.6





#62

Isopropylbenzene

Concen: 0.528 ppbv

RT: 10.542 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:105 Resp: 29250

Ion Ratio Lower Upper

105 100

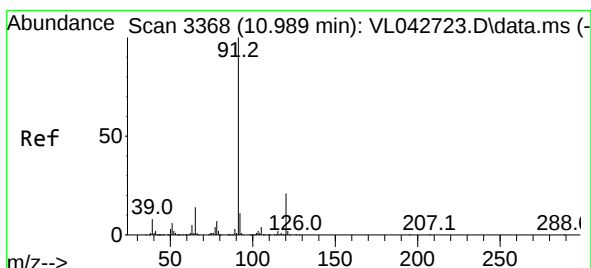
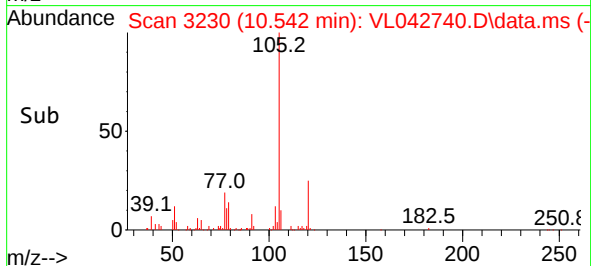
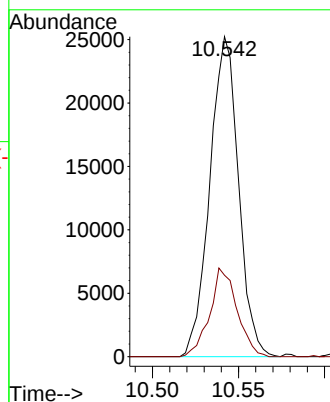
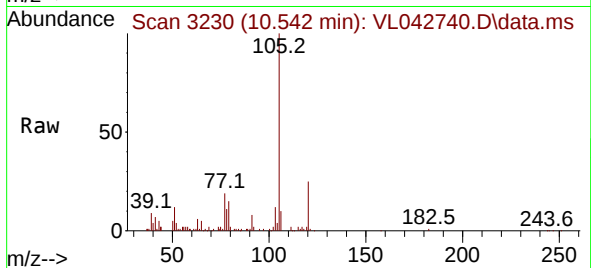
120 26.3 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025

Supervised By :Mahesh Dadoda 07/23/2025



#64

n-propylbenzene

Concen: 1.493 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. 0.003 min

Lab File: VL042740.D

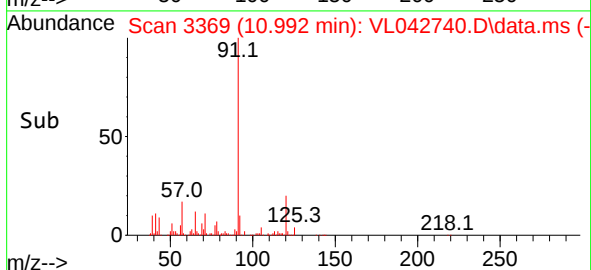
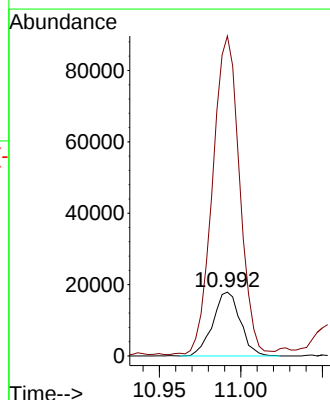
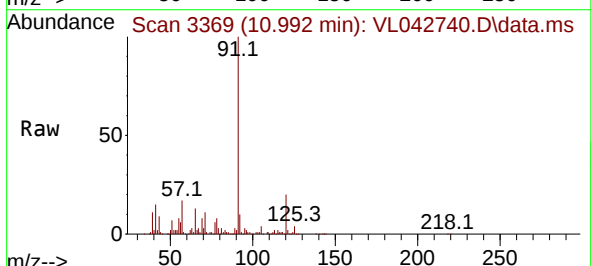
Acq: 22 Jul 2025 20:36

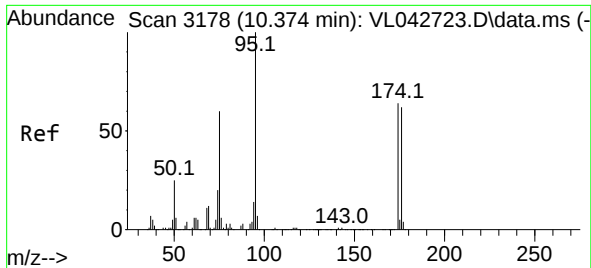
Tgt Ion:120 Resp: 20874

Ion Ratio Lower Upper

120 100

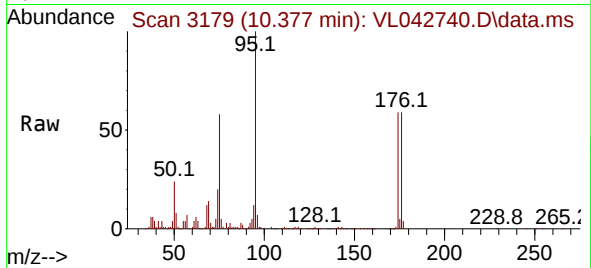
91 504.7 377.4 566.0





#68
1-Bromo-4-Fluorobenzene
Concen: 10.517 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

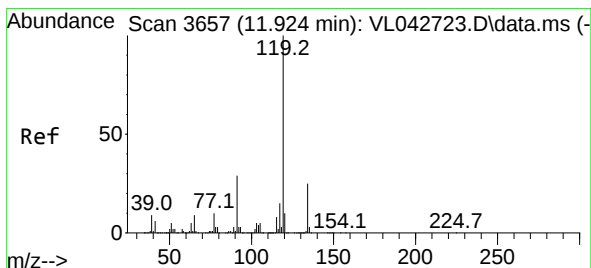
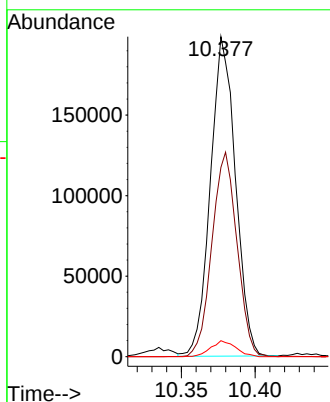
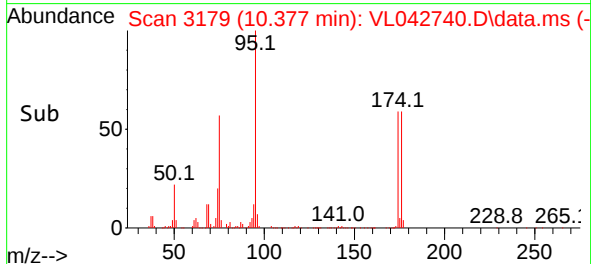
Instrument :
MSVOA_L
ClientSampleId :
IA1



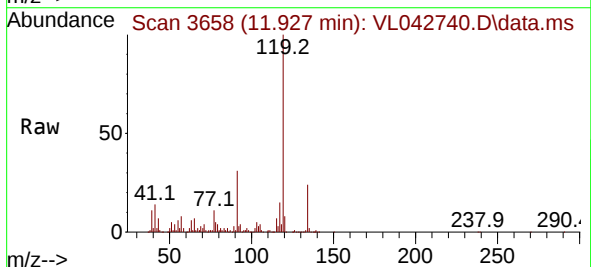
Tgt Ion: 95 Resp: 23482
Ion Ratio Lower Upper
95 100
174 63.9 51.4 77.2
175 5.0 4.2 6.4

Manual Integrations
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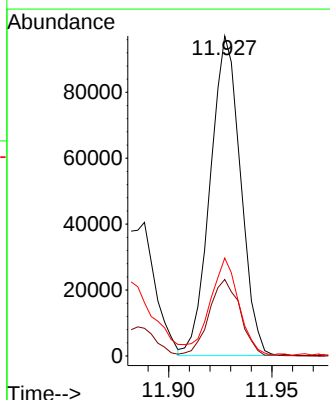
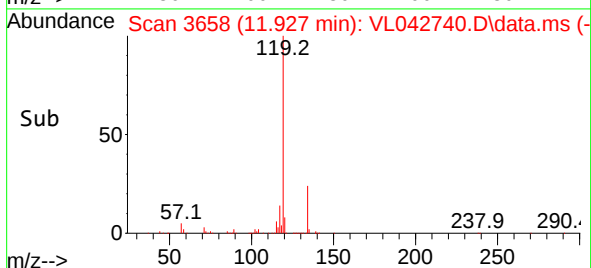
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

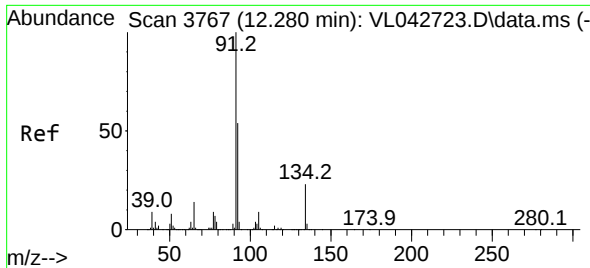


#69
p-Isopropyltoluene
Concen: 1.732 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36



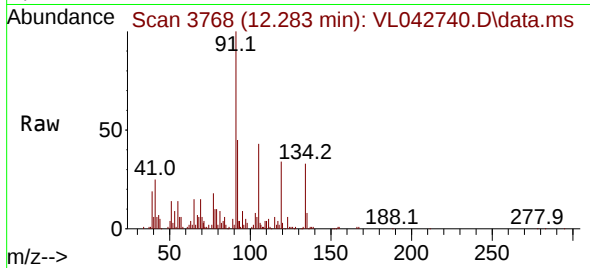
Tgt Ion:119 Resp: 98817
Ion Ratio Lower Upper
119 100
134 24.8 19.8 29.6
91 30.4 23.9 35.9





#70
n-Butylbenzene
Concen: 0.466 ppbv m
RT: 12.283 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

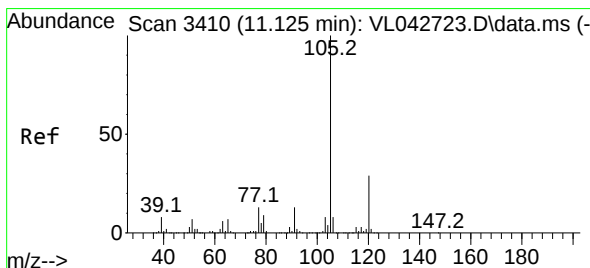
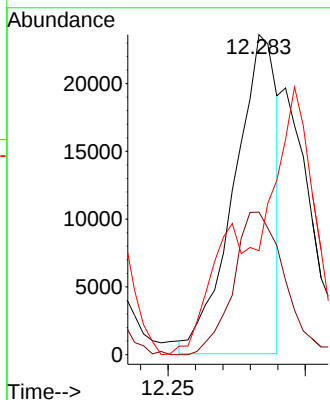
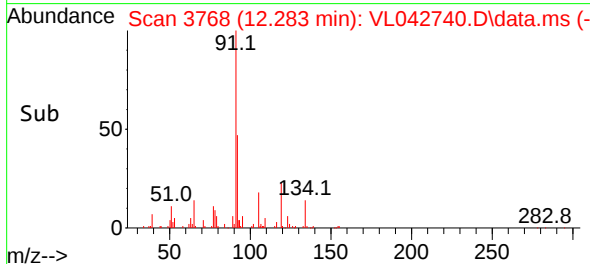
Instrument :
MSVOA_L
ClientSampleId :
IA1



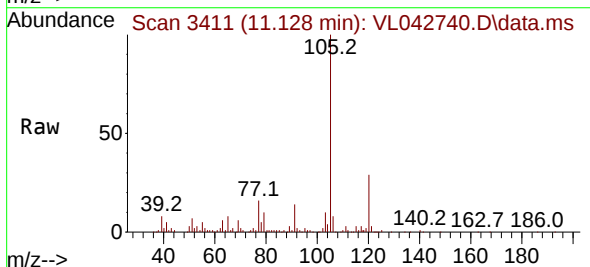
Tgt Ion: 91 Resp: 25400
Ion Ratio Lower Upper
91 100
92 0.0 43.2 64.8#
134 0.0 19.0 28.6#

Manual Integrations
APPROVED

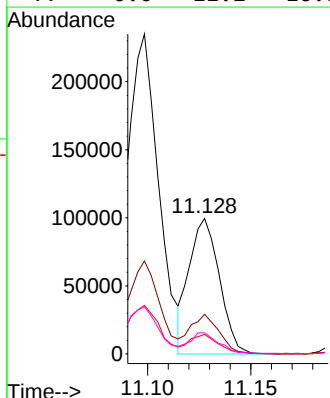
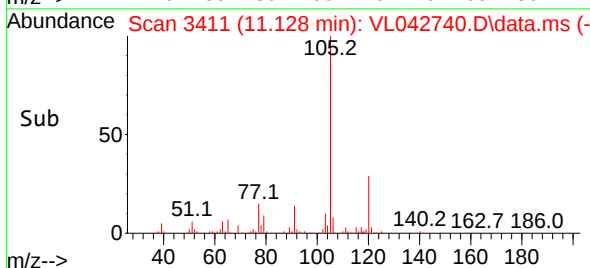
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

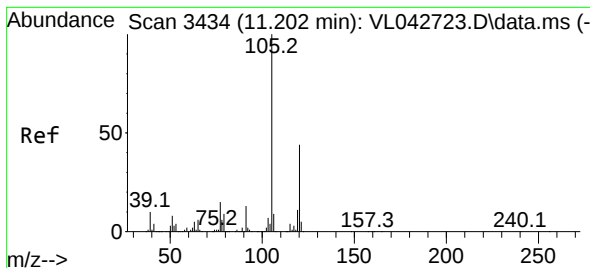


#72
4-Ethyltoluene
Concen: 2.283 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36



Tgt Ion:105 Resp: 101468
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.6 15.8#
77 0.0 11.2 16.8#





#73

1,3,5-Trimethylbenzene

Concen: 4.574 ppbv

RT: 11.205 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:105 Resp: 16816

Ion Ratio Lower Upper

105 100

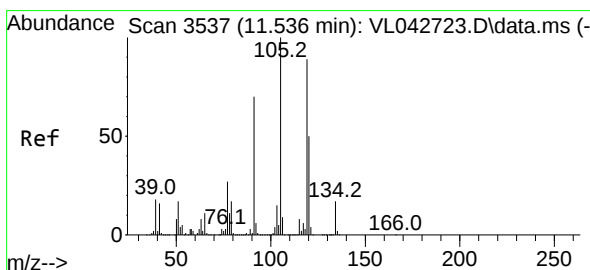
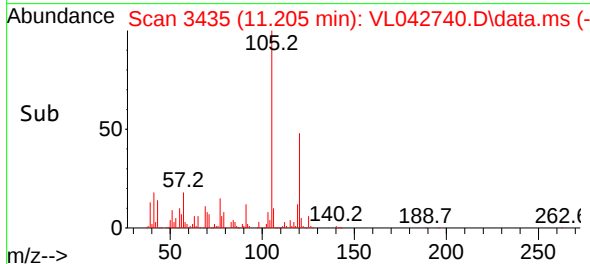
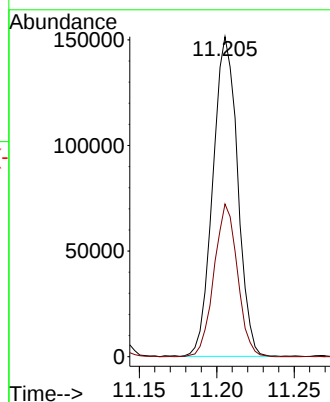
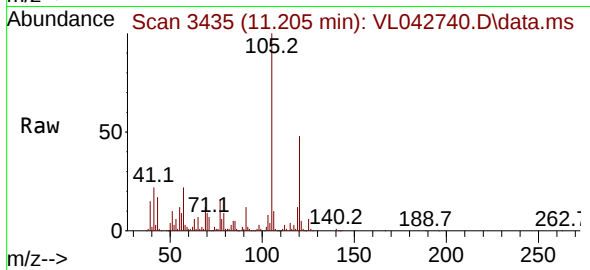
120 47.8 35.2 52.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025

Supervised By :Mahesh Dadoda 07/23/2025



#74

1,2,4-Trimethylbenzene

Concen: 11.022 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL042740.D

Acq: 22 Jul 2025 20:36

Tgt Ion:105 Resp: 444602

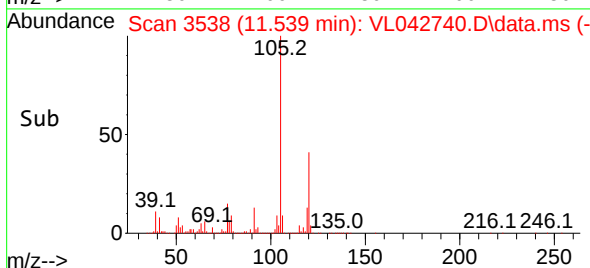
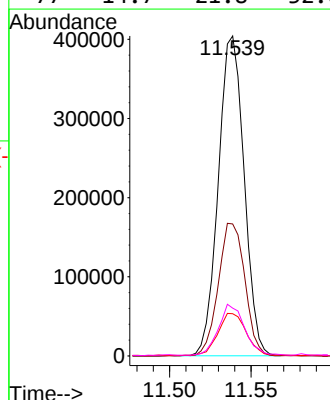
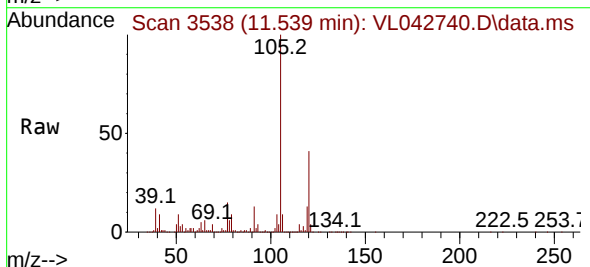
Ion Ratio Lower Upper

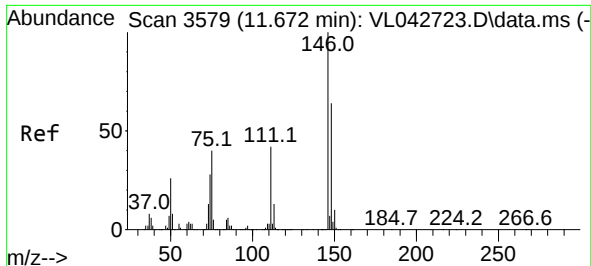
105 100

120 41.2 39.9 59.9

91 13.1 56.5 84.7#

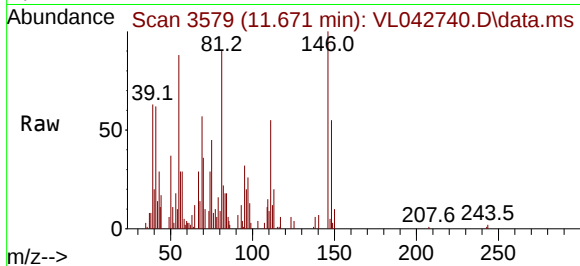
77 14.7 21.8 32.6#





#76
1,4-Dichlorobenzene
Concen: 0.147 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36

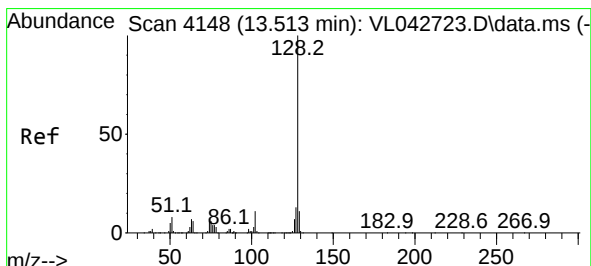
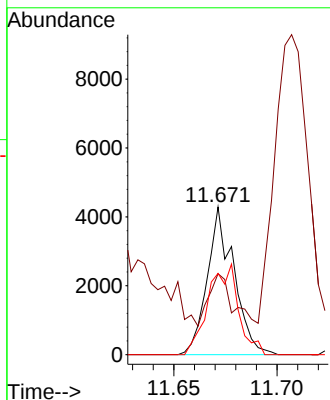
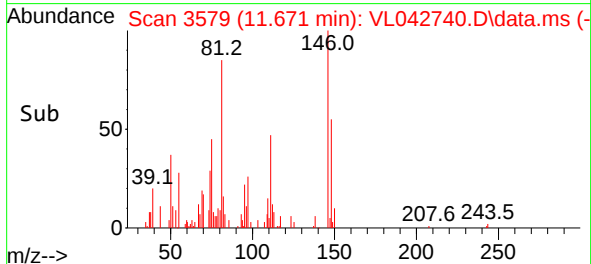
Instrument :
MSVOA_L
ClientSampleId :
IA1



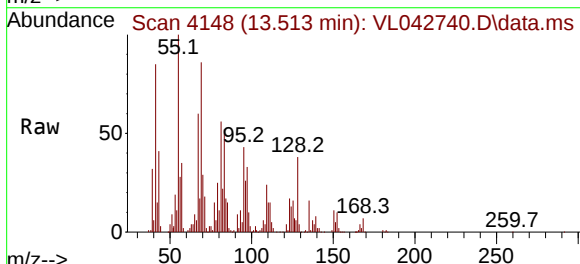
Tgt Ion:146 Resp: 3848
Ion Ratio Lower Upper
146 100
111 323.6 22.1 66.1
148 69.5 32.1 96.5

Manual Integrations
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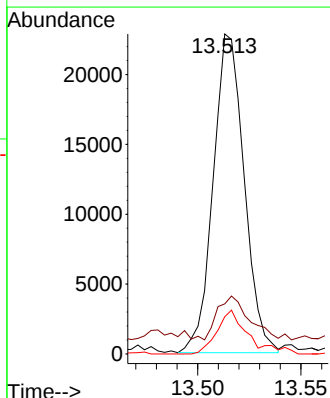
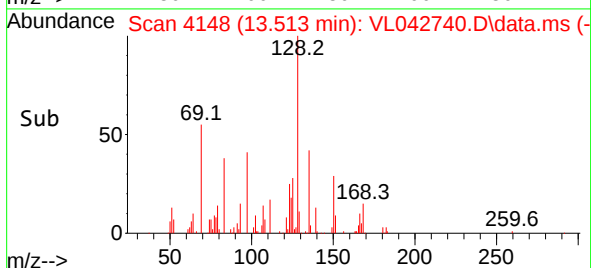
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#79
Naphthalene
Concen: 0.789 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042740.D
Acq: 22 Jul 2025 20:36



Tgt Ion:128 Resp: 23811
Ion Ratio Lower Upper
128 100
127 10.8 10.3 15.5
129 11.7 8.6 13.0



Report of Analysis

Client:	GFE LLC	Date Collected:	07/17/25
Project:	64 2nd St., Brooklyn, NY	Date Received:	07/17/25
Client Sample ID:	IA1DL	SDG No.:	Q2632
Lab Sample ID:	Q2632-01DL	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
VL042742.D	10		07/22/25 22:39	VL072225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.25	0.64	UD	0.64	0.77	ug/m3
142-82-5	Heptane	1.70	6.97	UD	6.97	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.50	5.95	UD	5.95	19.8	ug/m3
110-82-7	Cyclohexane	2.20	7.57	UD	7.57	17.2	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	UD	3.93	19.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.16	0.87	UD	0.87	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	UD	6.54	23.4	ug/m3
71-43-2	Benzene	0.79	2.52	UD	2.52	16.0	ug/m3
79-01-6	Trichloroethene	0.24	1.29	UD	1.29	1.61	ug/m3
108-88-3	Toluene	22.3	84.0	D	6.03	18.8	ug/m3
127-18-4	Tetrachloroethene	0.54	3.66	D	1.02	2.03	ug/m3
100-41-4	Ethyl Benzene	1.90	8.25	UD	8.25	21.7	ug/m3
179601-23-1	m/p-Xylene	7.90	34.3	JD	17.8	43.4	ug/m3
95-47-6	o-Xylene	4.70	20.4	JD	9.12	21.7	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.90	24.1	JD	8.85	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	11.8	58.0	D	8.85	24.6	ug/m3
91-20-3	Naphthalene	0.13	0.68	UDQ	0.68	5.24	ug/m3
110-54-3	Hexane	1.70	5.99	JD	5.64	17.6	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	114000		2.787			
540-36-3	1,4-Difluorobenzene	339000		3.959			
3114-55-4	Chlorobenzene-d5	298000		8.882			

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\VL072225\
 Data File : VL042742.D
 Acq On : 22 Jul 2025 22:39
 Operator : SY/MD
 Sample : Q2632-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 03:07:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 02:51:39 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	114495	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	338585	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	297519	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	246109	10.235	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%
Target Compounds						
					Qvalue	
9) Propene	1.486	41	1791	0.250	ppbv	87
13) Ethanol	1.722	45	21948	18.191	ppbv	100
15) Acetone	1.835	43	176470	9.205	ppbv	97
19) Isopropyl Alcohol	1.887	45	26496	2.608	ppbv #	1
26) Hexane	2.826	57	2573m	0.166	ppbv	
34) 2-Butanone	2.560	43	14186	0.608	ppbv	99
37) 1,2-Dichloroethane	3.217	62	5050m	0.252	ppbv	
50) 4-Methyl-2-Pentanone	5.761	43	13297m	0.435	ppbv	
52) Tetrachloroethene	8.221	164	688m	0.054	ppbv	
53) Toluene	6.930	91	79029	2.228	ppbv	99
58) Ethyl Benzene	9.361	91	7314m	0.147	ppbv	
59) m/p-Xylene	9.529	91	31548m	0.793	ppbv	
60) o-Xylene	9.963	91	18730	0.467	ppbv	97
61) Styrene	9.872	104	2547m	0.147	ppbv	
64) n-propylbenzene	10.985	120	2302	0.153	ppbv	80
69) p-Isopropyltoluene	11.924	119	10919	0.178	ppbv	95
72) 4-Ethyltoluene	11.125	105	11805	0.247	ppbv #	61
73) 1,3,5-Trimethylbenzene	11.202	105	19316	0.488	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	51091	1.176	ppbv #	57

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

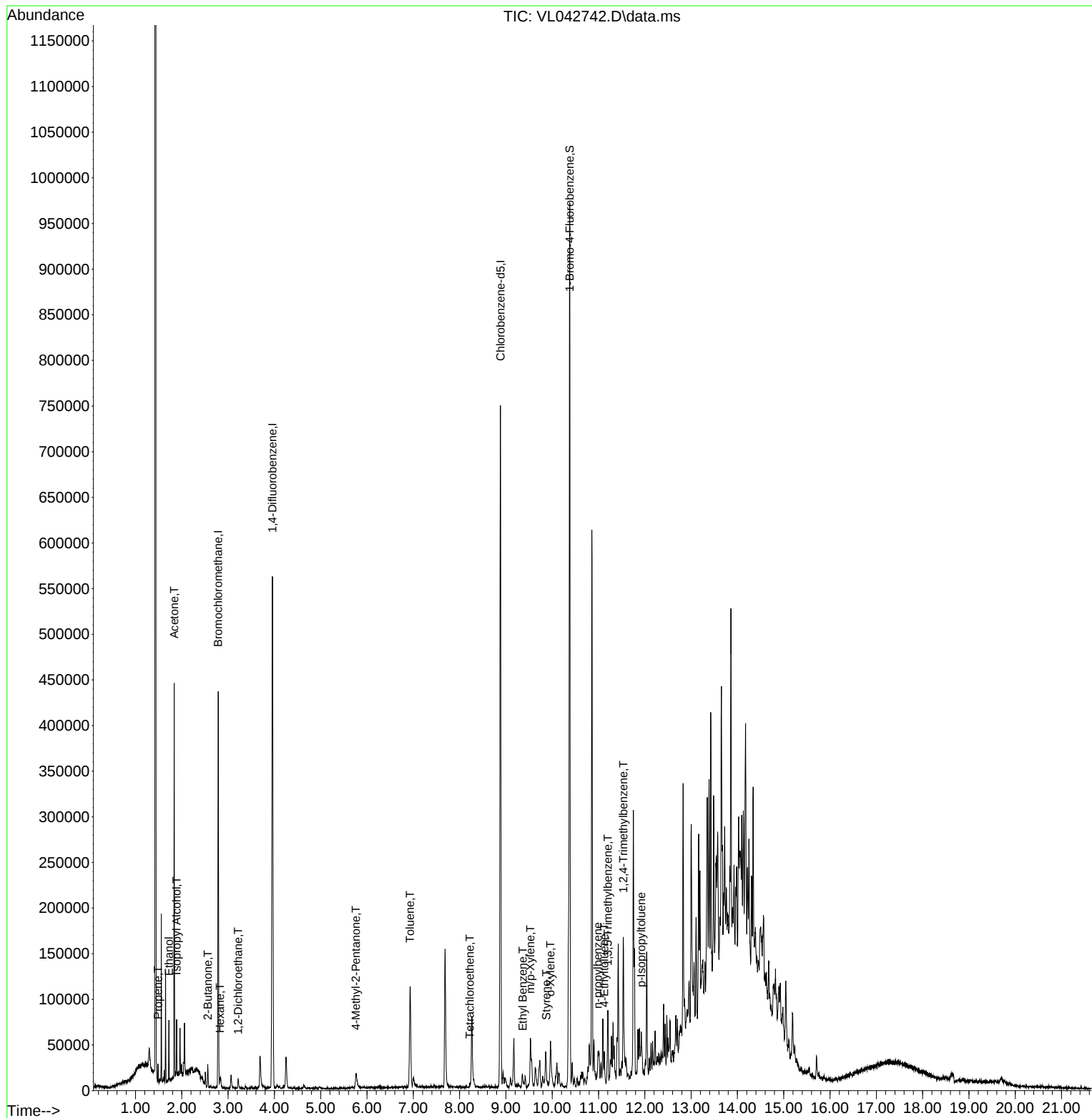
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
Data File : VL042742.D
Acq On : 22 Jul 2025 22:39
Operator : SY/MD
Sample : Q2632-01DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

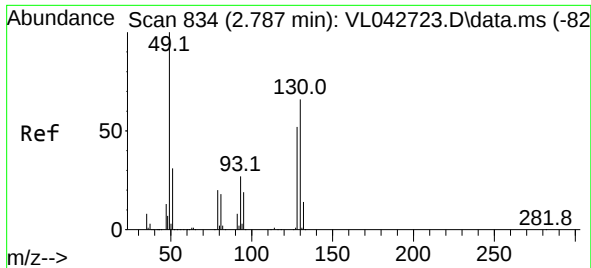
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

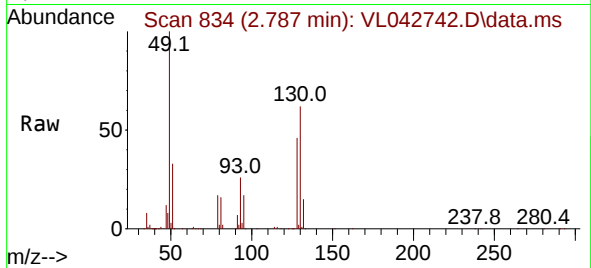
Quant Time: Jul 23 03:07:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jul 23 02:51:39 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

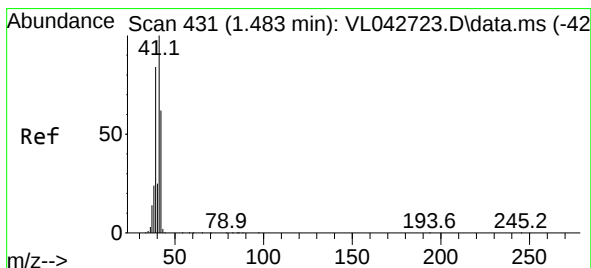
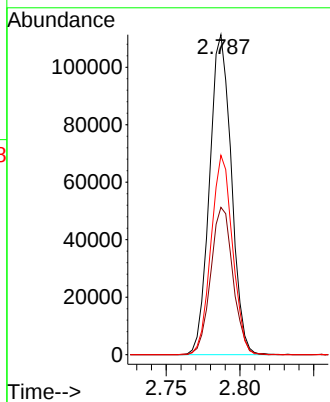
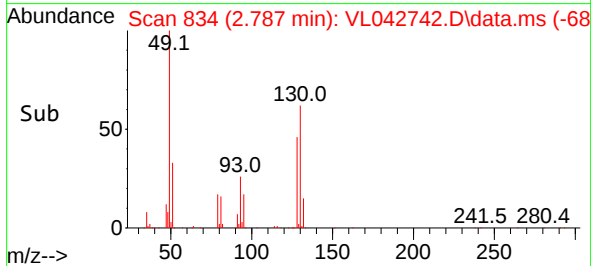
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



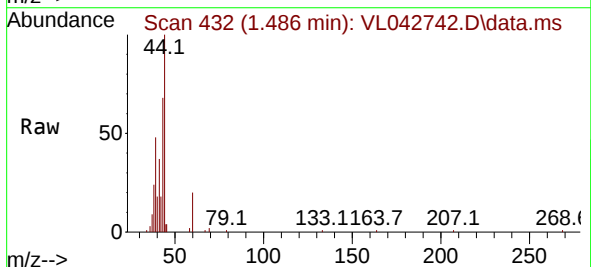
Tgt Ion: 49 Resp: 11449
Ion Ratio Lower Upper
49 100
128 46.9 24.5 73.5
130 61.5 31.7 95.1

Manual Integrations
APPROVED

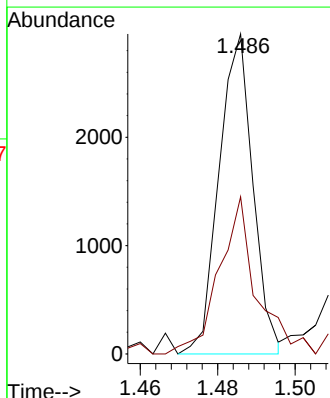
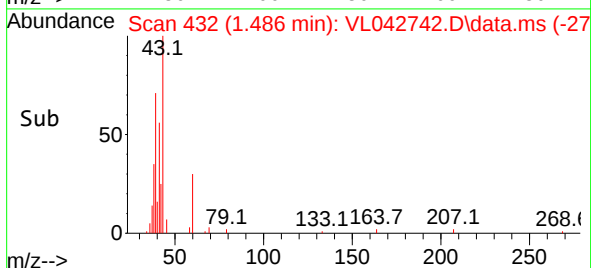
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

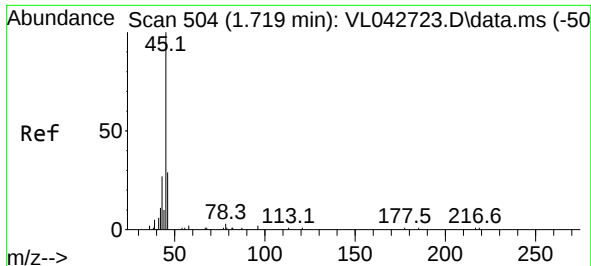


#9
Propene
Concen: 0.250 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39



Tgt Ion: 41 Resp: 1791
Ion Ratio Lower Upper
41 100
42 54.4 52.0 78.0





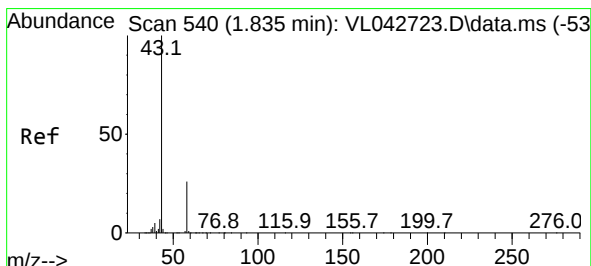
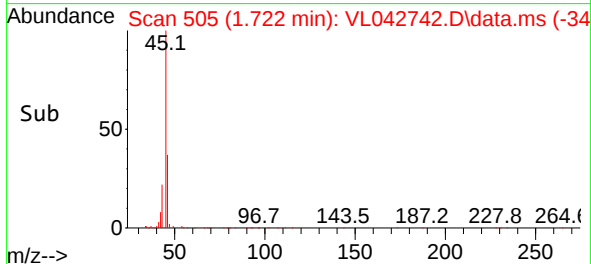
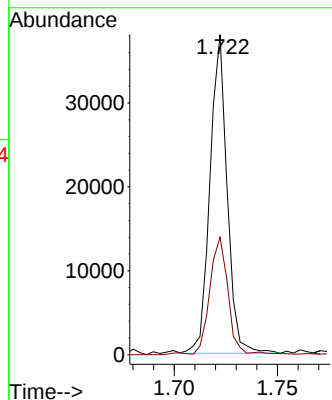
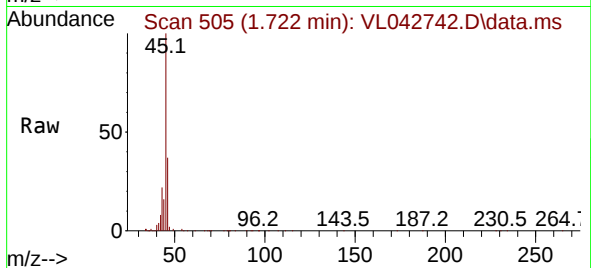
#13
Ethanol
Concen: 18.191 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

Instrument :
MSVOA_L
Client Sample Id :
IA1DL

Tgt Ion: 45 Resp: 21948
Ion Ratio Lower Upper
45 100
46 40.8 16.3 65.1

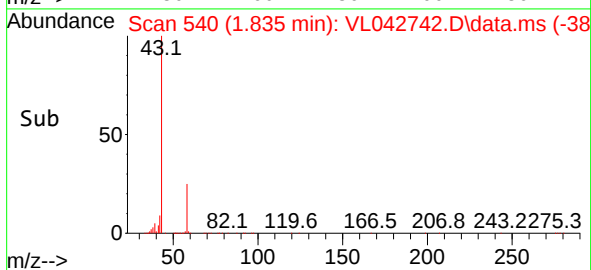
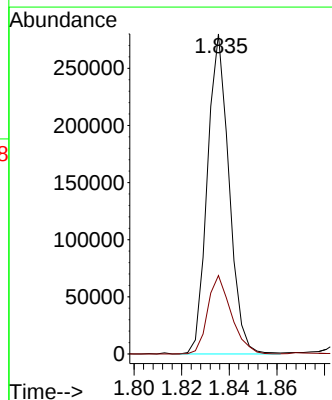
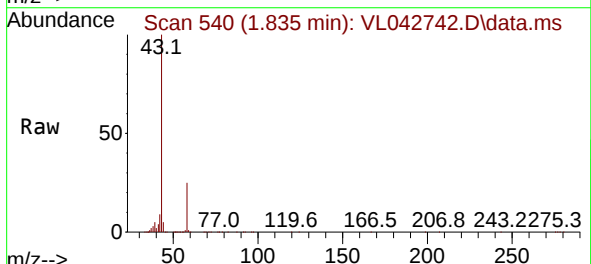
Manual Integrations
APPROVED

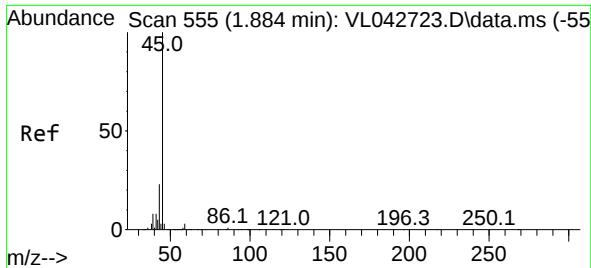
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#15
Acetone
Concen: 9.205 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

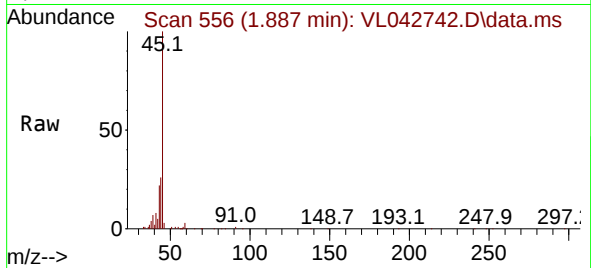
Tgt Ion: 43 Resp: 176470
Ion Ratio Lower Upper
43 100
58 27.4 20.5 30.7





#19
Isopropyl Alcohol
Concen: 2.608 ppbv
RT: 1.887 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

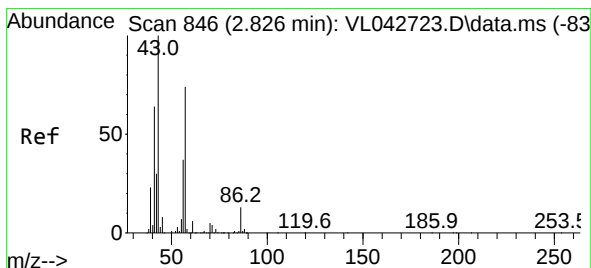
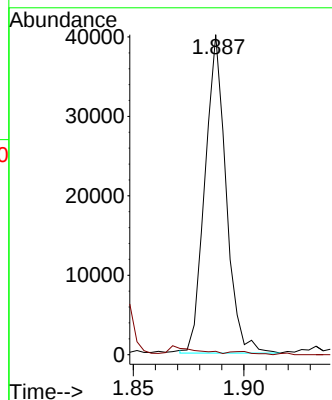
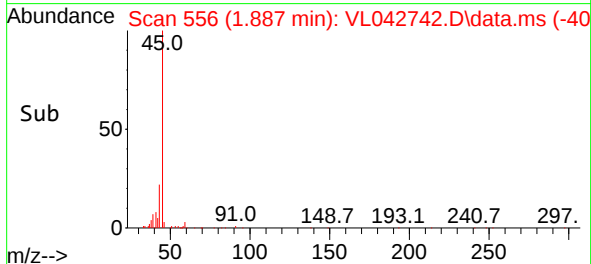
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



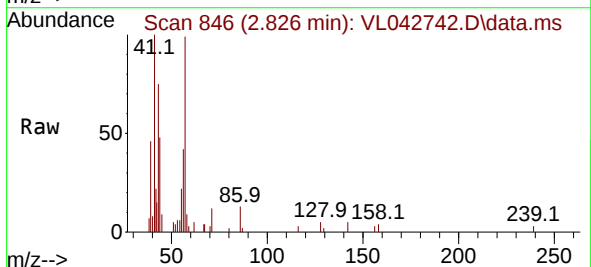
Tgt Ion: 45 Resp: 26490
Ion Ratio Lower Upper
45 100
58 182.3 30.6 46.0

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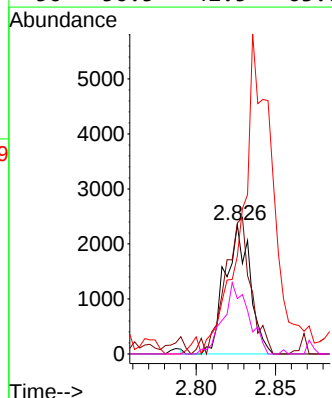
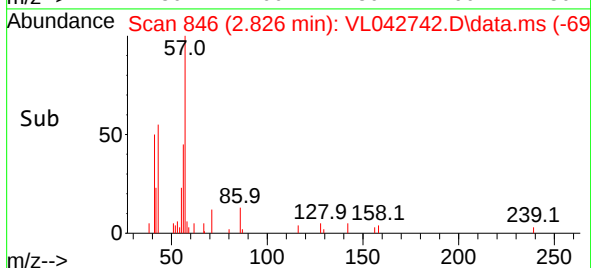
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

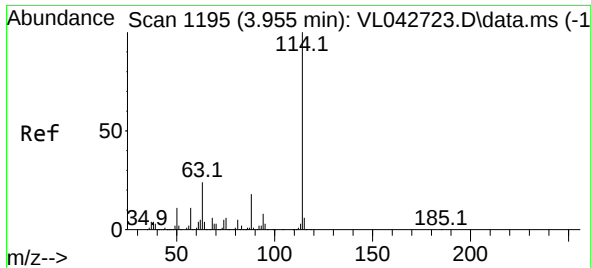


#26
Hexane
Concen: 0.166 ppbv m
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39



Tgt Ion: 57 Resp: 2573
Ion Ratio Lower Upper
57 100
41 114.0 77.3 115.9
43 332.9 182.3 273.5#
56 56.5 42.5 63.7





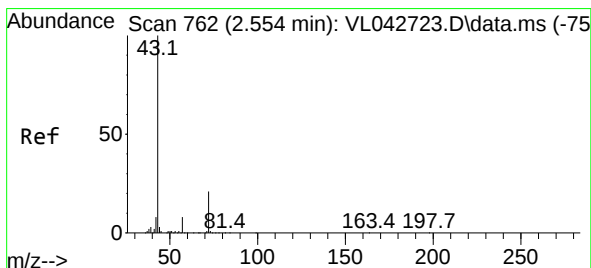
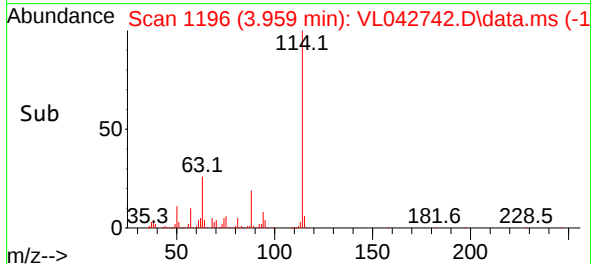
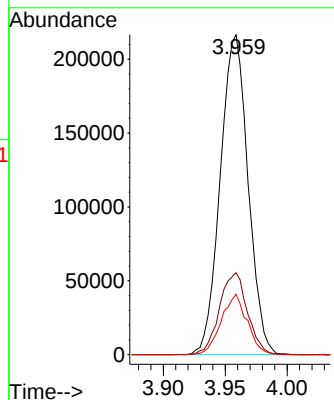
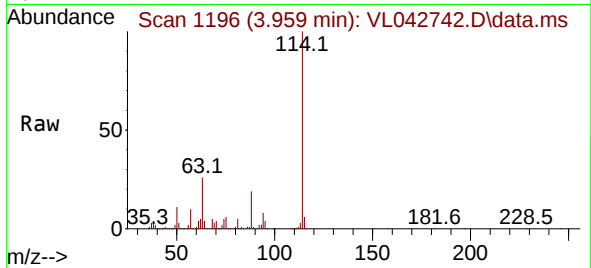
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion:114 Resp: 33858
Ion Ratio Lower Upper
114 100
63 25.8 20.4 30.6
88 17.6 14.5 21.7

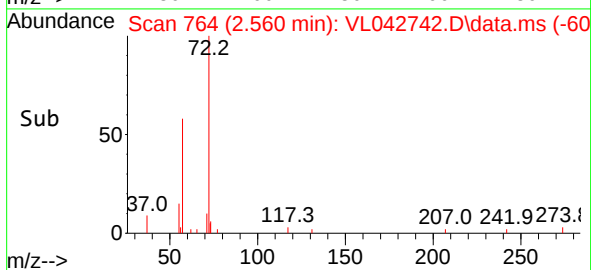
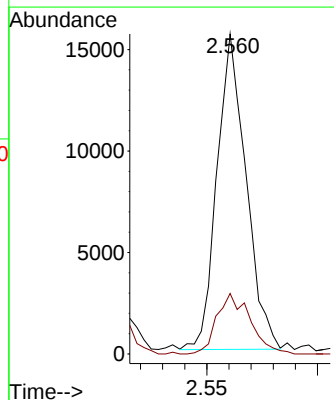
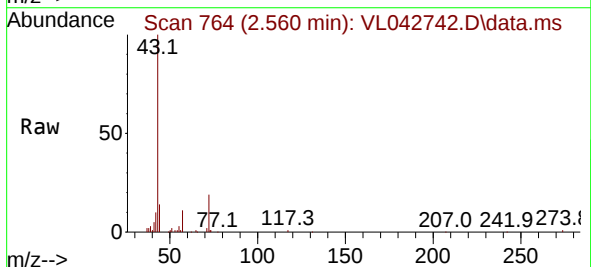
Manual Integrations
APPROVED

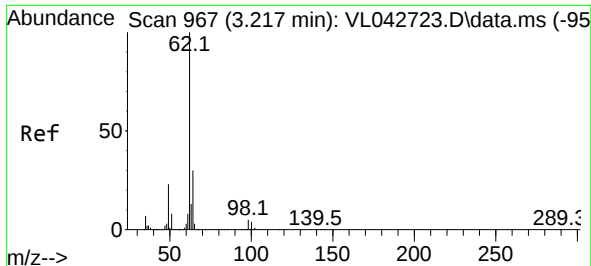
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#34
2-Butanone
Concen: 0.608 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

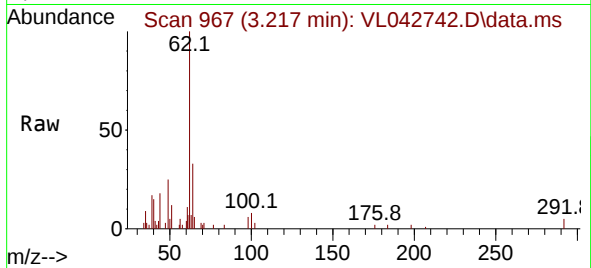
Tgt Ion: 43 Resp: 14186
Ion Ratio Lower Upper
43 100
72 22.0 17.0 25.6





#37
1,2-Dichloroethane
Concen: 0.252 ppbv m
RT: 3.217 min Scan# 967
Delta R.T. 0.000 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

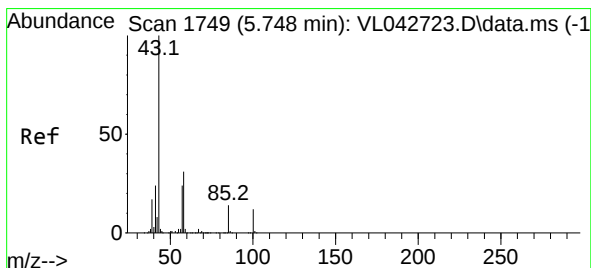
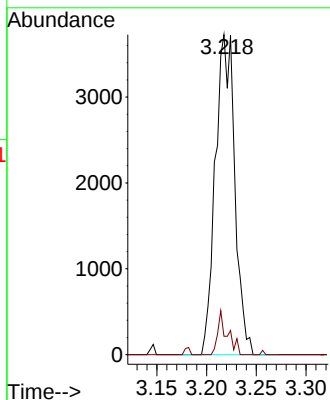
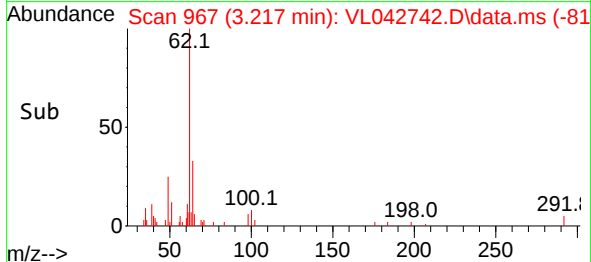
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



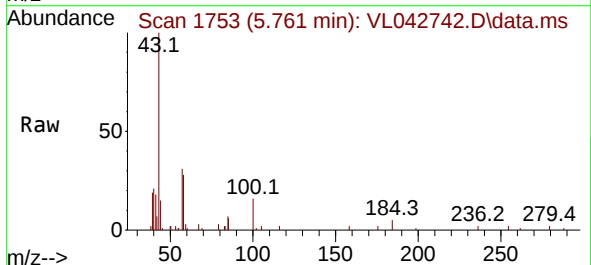
Tgt Ion: 62 Resp: 5050
Ion Ratio Lower Upper
62 100
98 0.0 4.8 7.2

Manual Integrations
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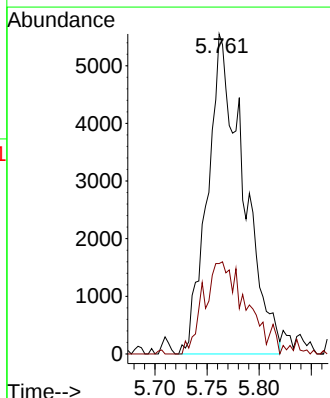
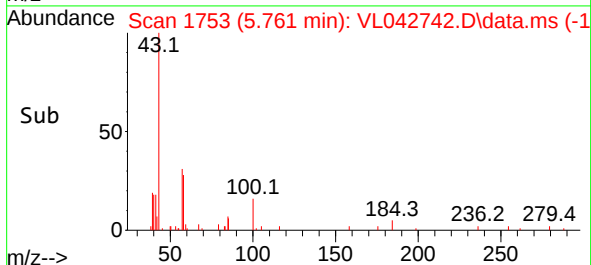
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

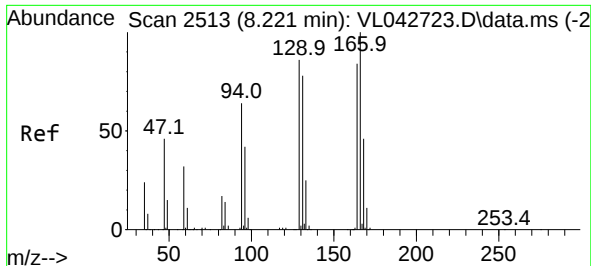


#50
4-Methyl-2-Pentanone
Concen: 0.435 ppbv m
RT: 5.761 min Scan# 1753
Delta R.T. 0.013 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39



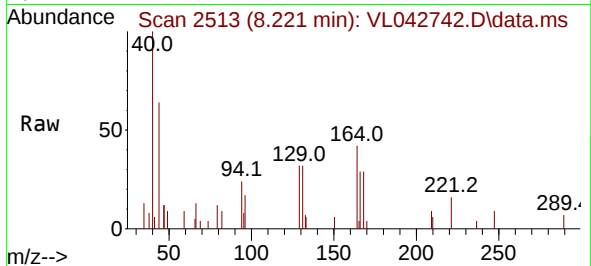
Tgt Ion: 43 Resp: 13297
Ion Ratio Lower Upper
43 100
58 35.7 27.6 41.4





#52
Tetrachloroethene
Concen: 0.054 ppbv m
RT: 8.221 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

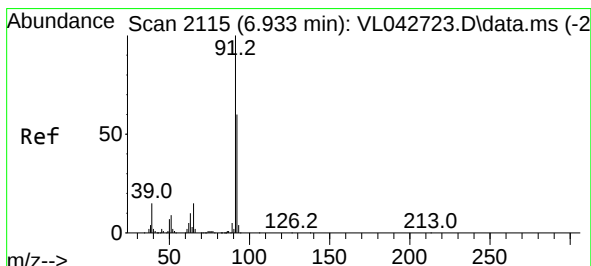
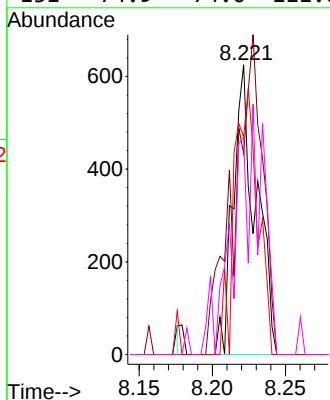
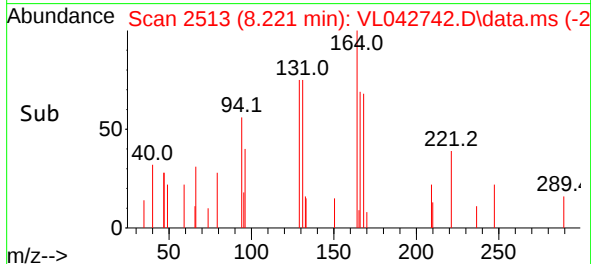
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



Tgt Ion:164 Resp: 688
Ion Ratio Lower Upper
164 100
166 69.4 95.1 142.7
129 75.2 81.9 122.9
131 74.9 74.0 111.0

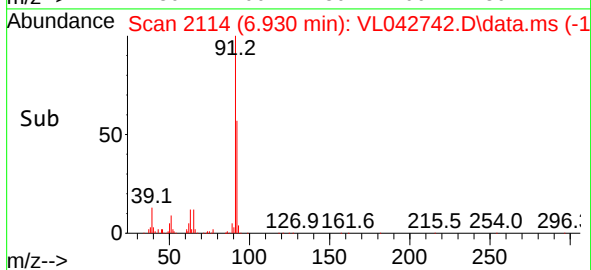
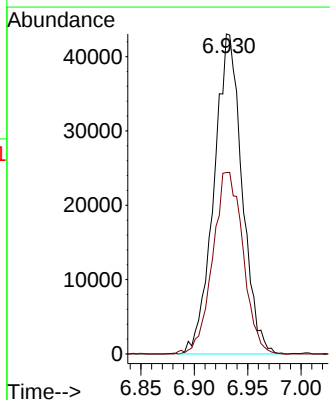
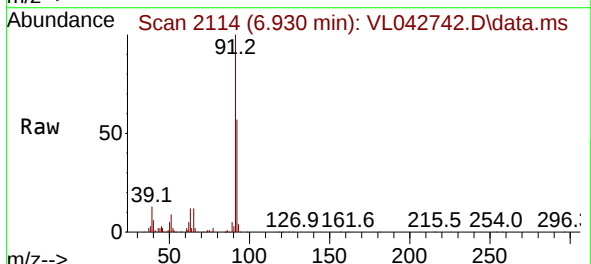
Manual Integrations
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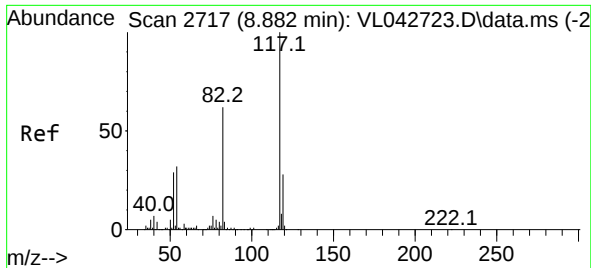
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#53
Toluene
Concen: 2.228 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

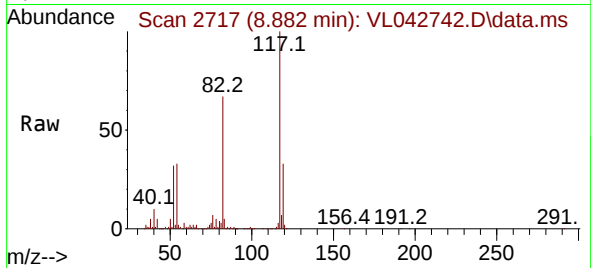
Tgt Ion: 91 Resp: 79029
Ion Ratio Lower Upper
91 100
92 61.0 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

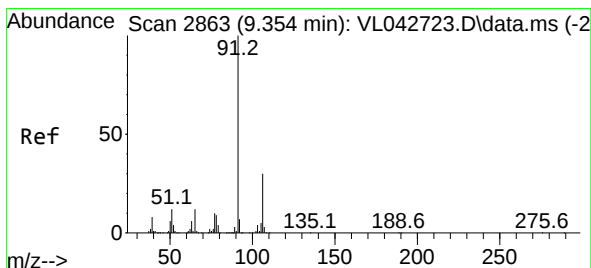
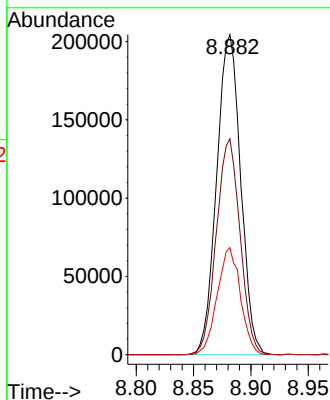
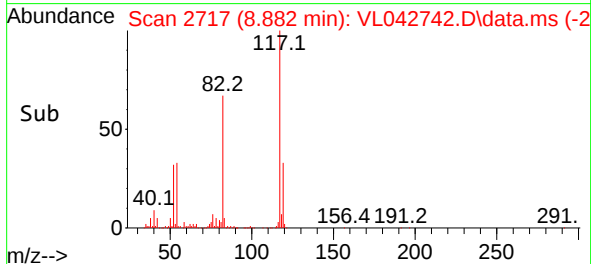
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



Tgt Ion:117 Resp: 297519
Ion Ratio Lower Upper
117 100
82 66.8 54.6 81.8
119 32.4 25.3 37.9

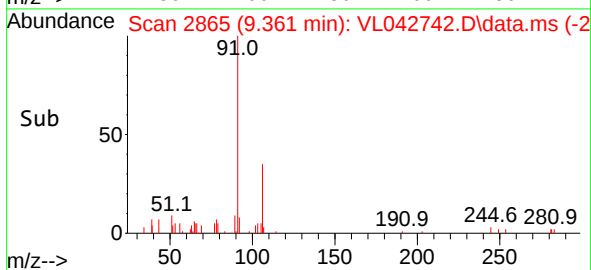
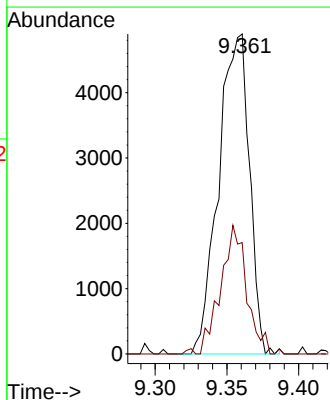
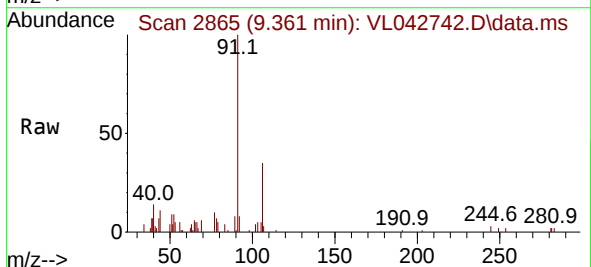
Manual Integrations
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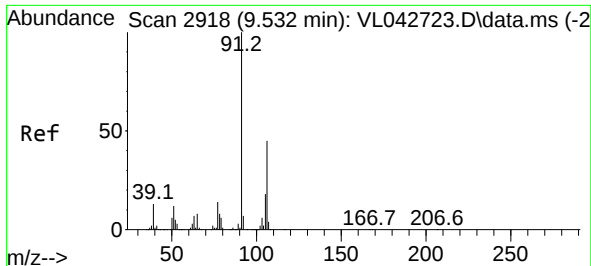
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#58
Ethyl Benzene
Concen: 0.147 ppbv m
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

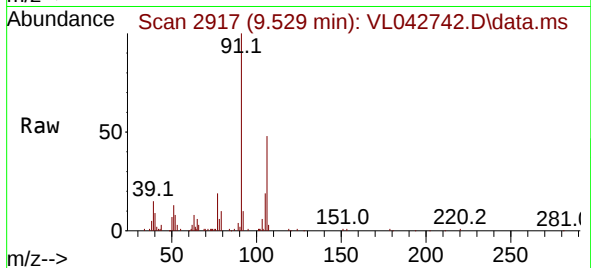
Tgt Ion: 91 Resp: 7314
Ion Ratio Lower Upper
91 100
106 34.8 23.7 35.5





#59
m/p-Xylene
Concen: 0.793 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.003 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

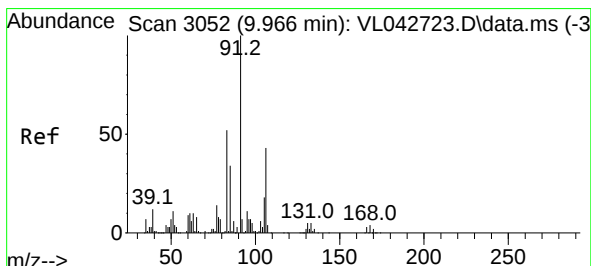
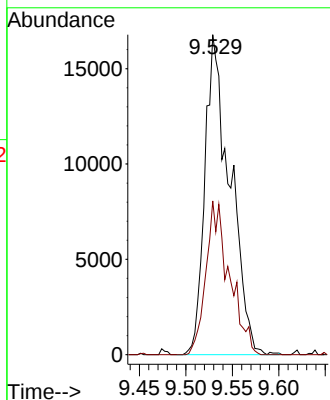
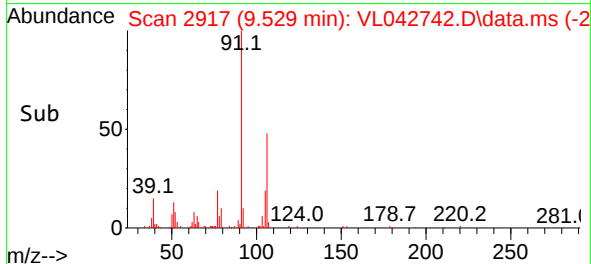
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



Tgt Ion: 91 Resp: 3154
Ion Ratio Lower Upper
91 100
106 44.8 37.3 55.9

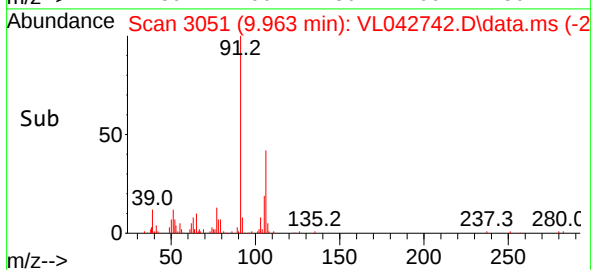
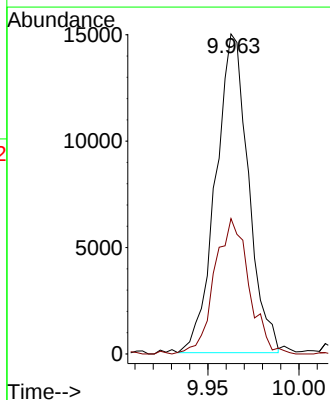
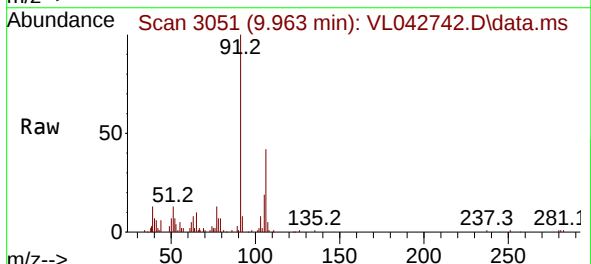
Manual Integrations
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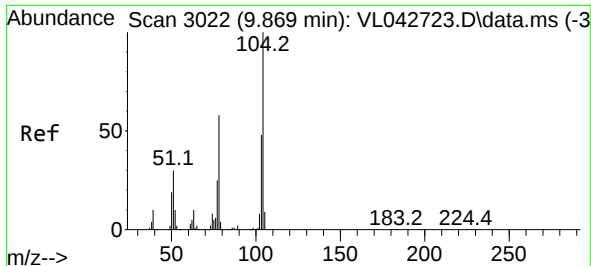
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#60
o-Xylene
Concen: 0.467 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.003 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

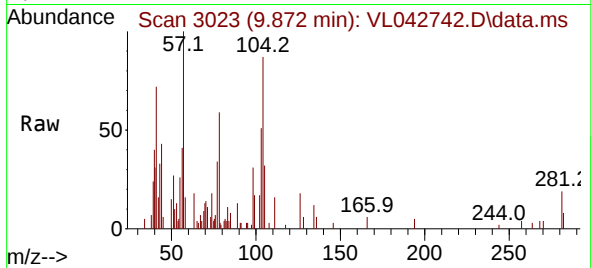
Tgt Ion: 91 Resp: 18730
Ion Ratio Lower Upper
91 100
106 44.8 21.4 64.3





#61
Styrene
Concen: 0.147 ppbv m
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

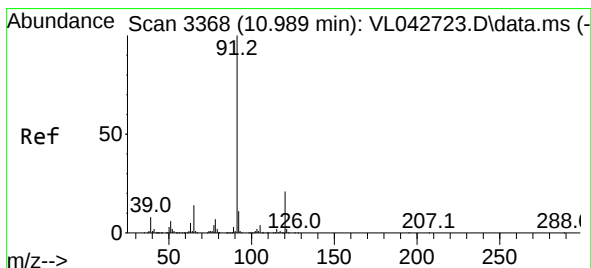
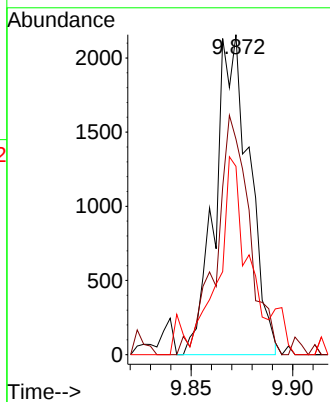
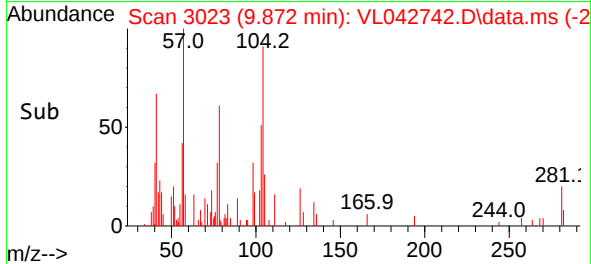
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



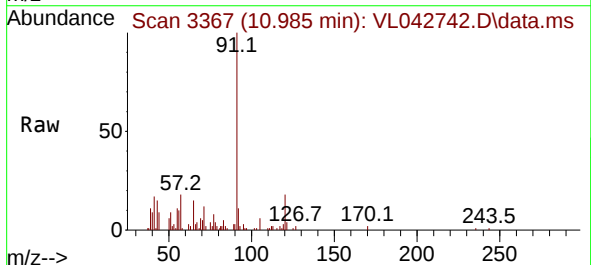
Tgt Ion:104 Resp: 254
Ion Ratio Lower Upper
104 100
78 76.4 43.4 65.2
103 61.6 37.8 56.6

Manual Integrations
APPROVED

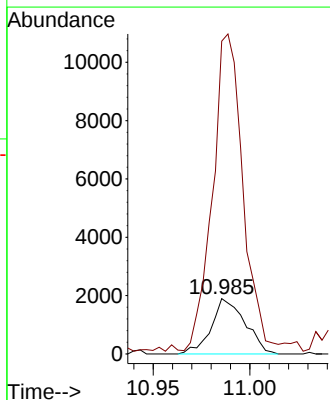
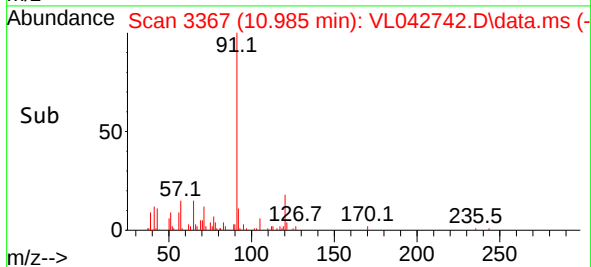
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

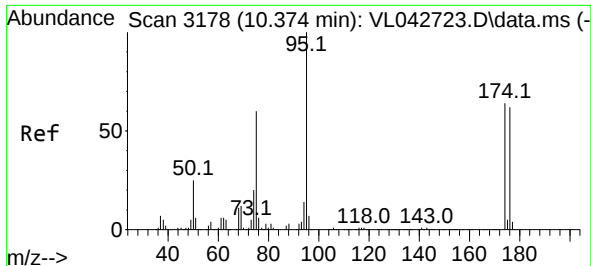


#64
n-propylbenzene
Concen: 0.153 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39



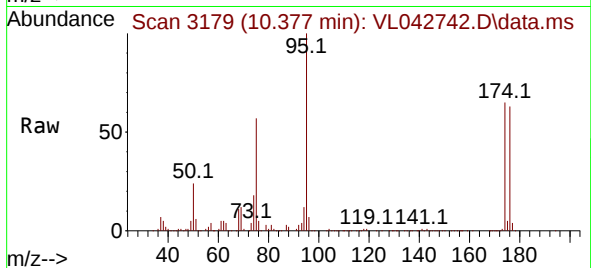
Tgt Ion:120 Resp: 2302
Ion Ratio Lower Upper
120 100
91 525.5 377.4 566.0





#68
1-Bromo-4-Fluorobenzene
Concen: 10.235 ppbv
RT: 10.377 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

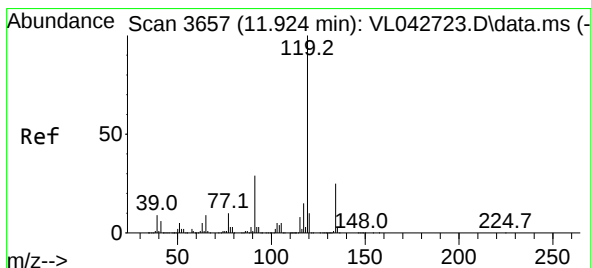
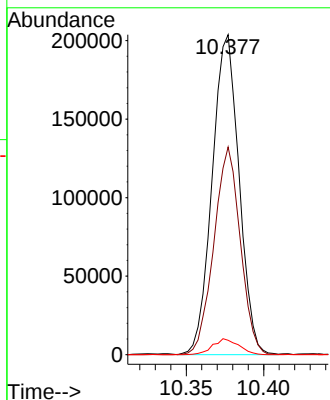
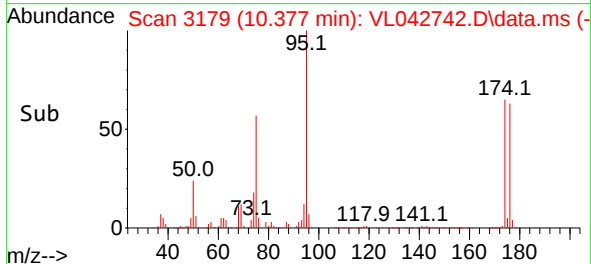
Instrument :
MSVOA_1
ClientSampleId :
IA1DL



Tgt Ion: 95 Resp: 246109
Ion Ratio Lower Upper
95 100
174 63.7 51.4 77.2
175 4.8 4.2 6.4

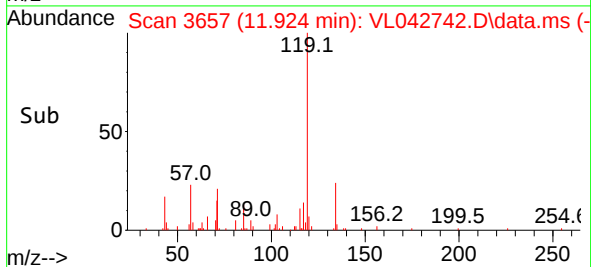
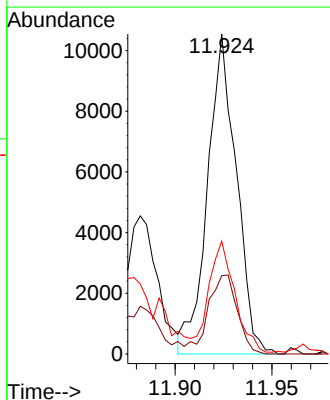
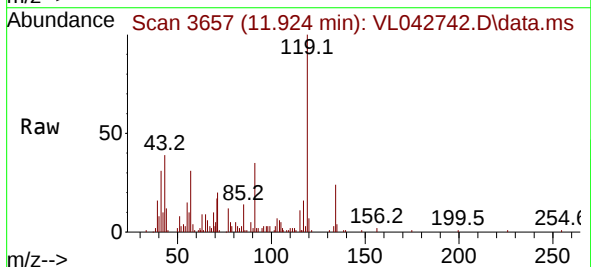
Manual Integrations
APPROVED

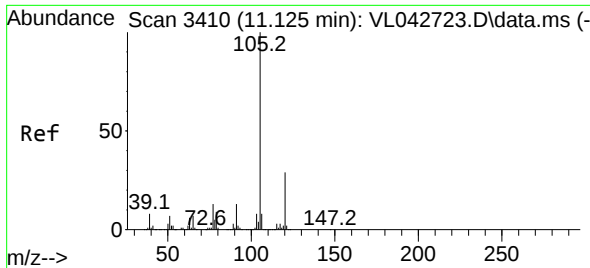
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#69
p-Isopropyltoluene
Concen: 0.178 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

Tgt Ion:119 Resp: 10919
Ion Ratio Lower Upper
119 100
134 23.6 19.8 29.6
91 33.7 23.9 35.9





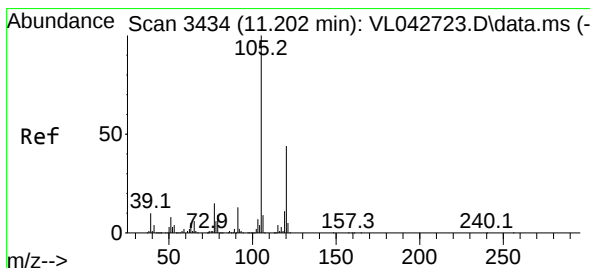
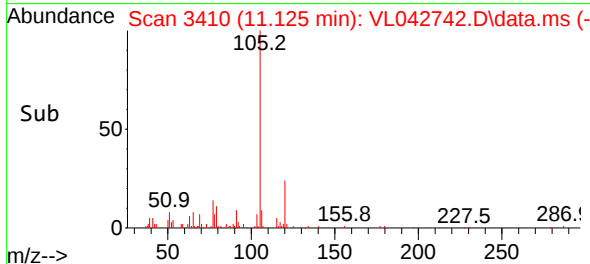
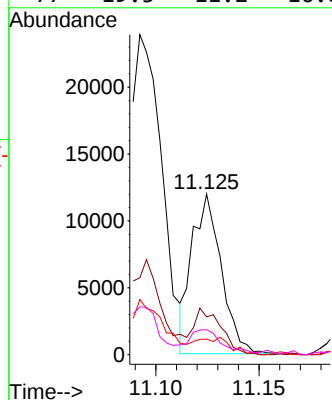
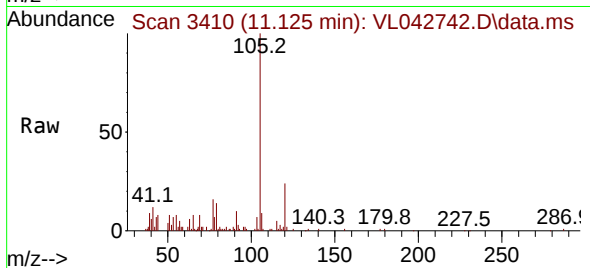
#72
4-Ethyltoluene
Concen: 0.247 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion:105 Resp: 11800
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0
91 0.0 10.6 15.8
77 19.3 11.2 16.8

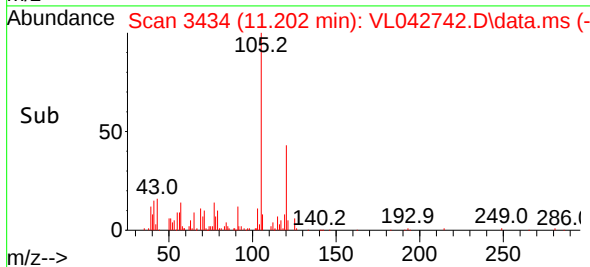
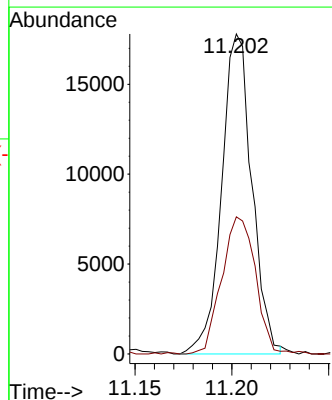
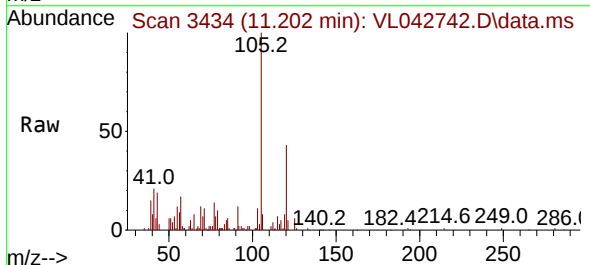
Manual Integrations
APPROVED

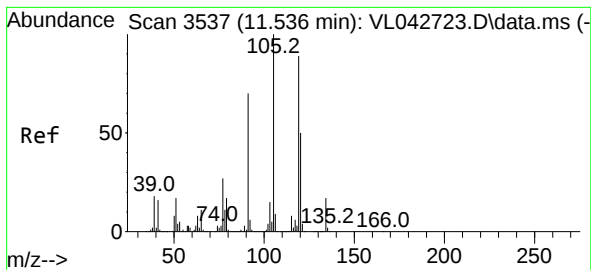
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.488 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. 0.000 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

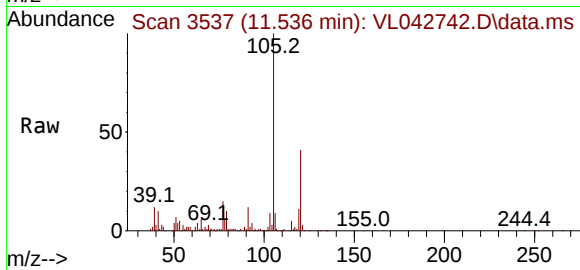
Tgt Ion:105 Resp: 19316
Ion Ratio Lower Upper
105 100
120 42.9 35.2 52.8





#74
1,2,4-Trimethylbenzene
Concen: 1.176 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.000 min
Lab File: VL042742.D
Acq: 22 Jul 2025 22:39

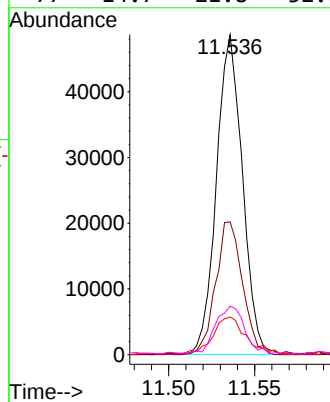
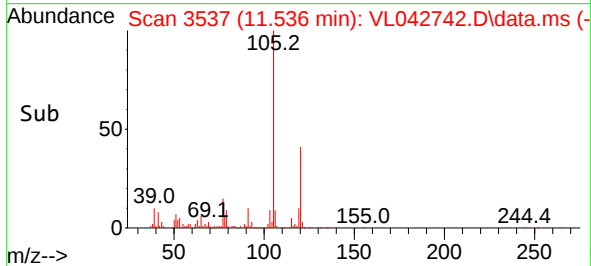
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



Tgt Ion:	105	Resp:	5109
Ion	Ratio	Lower	Upper
105	100		
120	41.5	39.9	59.9
91	11.5	56.5	84.7
77	14.7	21.8	32.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	07/17/25
Project:	64 2nd St., Brooklyn, NY	Date Received:	07/17/25
Client Sample ID:	OA1	SDG No.:	Q2632
Lab Sample ID:	Q2632-02	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
VL042743.D	1		07/22/25 23:15	VL072225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	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	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.15	0.70	J	0.65	2.34	ug/m3
71-43-2	Benzene	0.17	0.54	J	0.26	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.71	2.68		0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	1.20	8.14		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.47	2.04	J	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.22	1.08	J	0.88	2.46	ug/m3
91-20-3	Naphthalene	0.010	0.050	UQ	0.050	0.52	ug/m3
110-54-3	Hexane	0.52	1.83		0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	109000			2.784		
540-36-3	1,4-Difluorobenzene	324000			3.952		
3114-55-4	Chlorobenzene-d5	284000			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\VL072225\
 Data File : VL042743.D
 Acq On : 22 Jul 2025 23:15
 Operator : SY/MD
 Sample : Q2632-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 03:07:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 02:51:39 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	109401	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	323808	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	284327	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	233470	10.160	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	7298	0.427	ppbv #	87
3) Chlorodifluoromethane	1.473	51	3866m	0.200	ppbv	
4) Chloromethane	1.531	50	3923	0.561	ppbv #	88
9) Propene	1.486	41	9456m	1.380	ppbv	
10) Heptane	4.969	43	2683m	0.141	ppbv	
11) Trichlorofluoromethane	1.874	101	3627m	0.206	ppbv	
13) Ethanol	1.719	45	46540	40.370	ppbv	94
15) Acetone	1.832	43	126418	6.901	ppbv	98
19) Isopropyl Alcohol	1.884	45	13308	1.371	ppbv #	1
20) Methylene Chloride	2.059	84	32808	5.698	ppbv	91
26) Hexane	2.823	57	7659	0.516	ppbv #	60
34) 2-Butanone	2.557	43	17157	0.769	ppbv	99
35) Carbon Tetrachloride	3.758	117	1580m	0.060	ppbv	
36) Benzene	3.658	78	5201	0.173	ppbv	95
44) 2,2,4-Trimethylpentane	4.635	57	7214m	0.146	ppbv	
52) Tetrachloroethene	8.221	164	14913	1.230	ppbv	89
53) Toluene	6.927	91	23962	0.706	ppbv	99
58) Ethyl Benzene	9.351	91	6421	0.135	ppbv	99
59) m/p-Xylene	9.526	91	17969m	0.473	ppbv	
60) o-Xylene	9.956	91	6371	0.166	ppbv	85
74) 1,2,4-Trimethylbenzene	11.532	105	9010	0.217	ppbv #	63

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

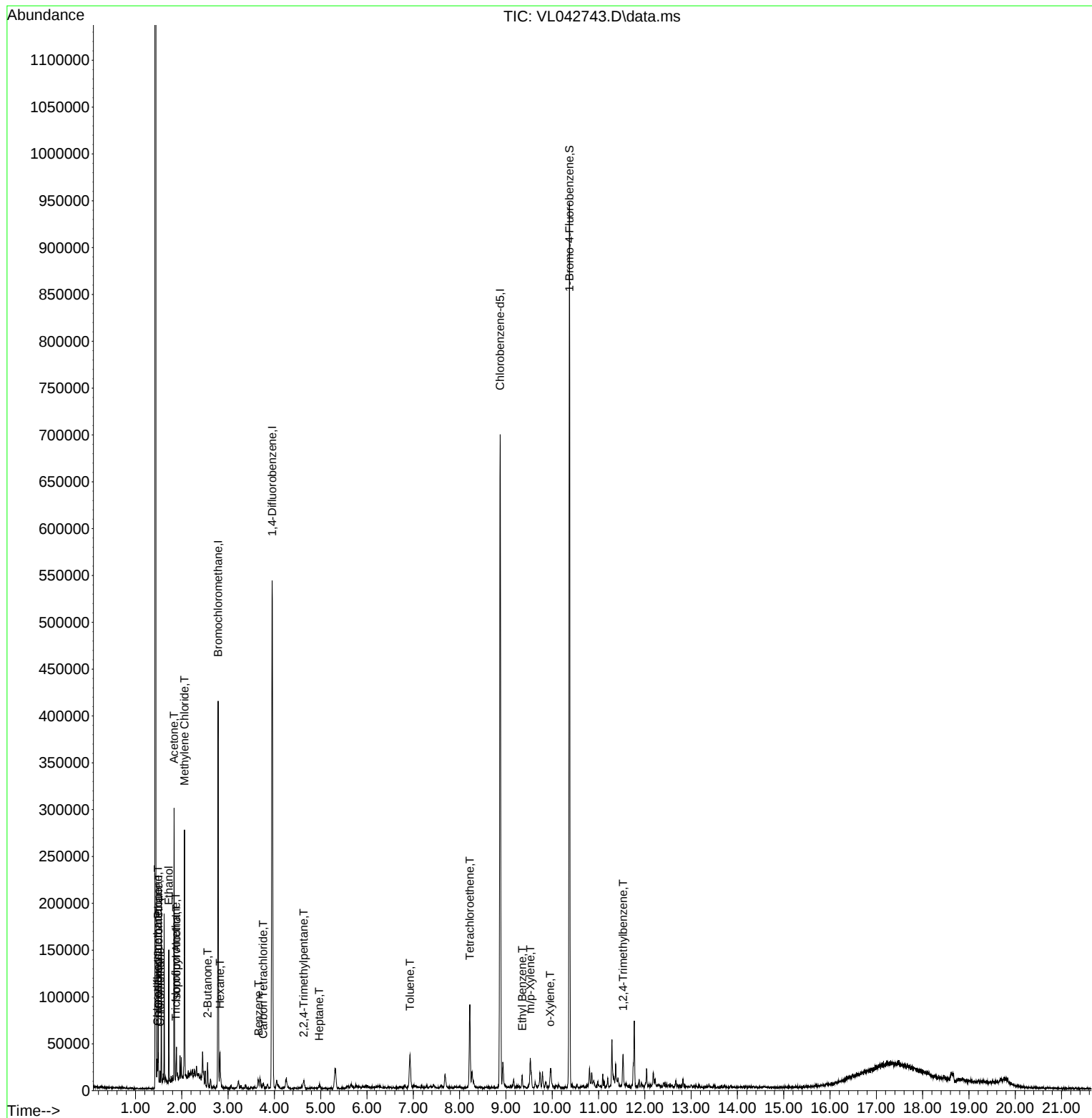
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Data File : VL042743.D
Acq On : 22 Jul 2025 23:15
Operator : SY/MD
Sample : Q2632-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

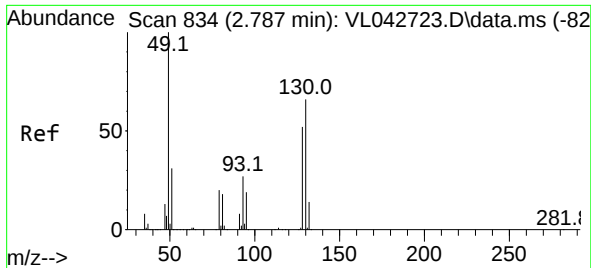
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Jul 23 03:07:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jul 23 02:51:39 2025
Response via : Initial Calibration

Manual Integrations
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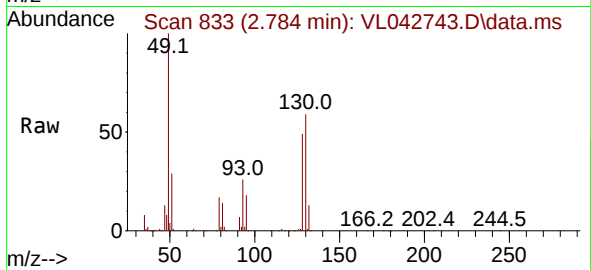
Reviewed By : Semsettin Yesilyurt 07/23/2025
Supervised By : Mahesh Dadoda 07/23/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

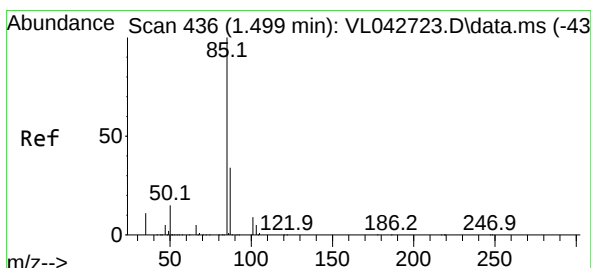
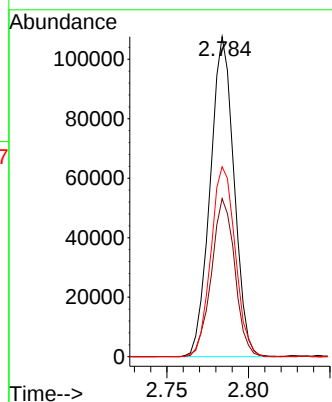
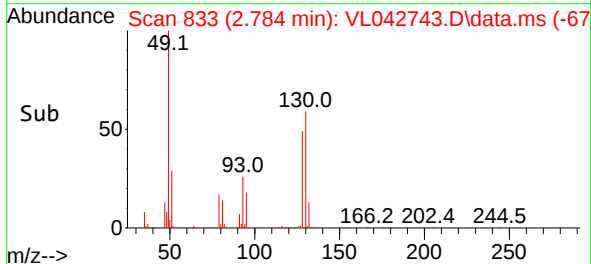
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 10940
Ion Ratio Lower Upper
49 100
128 48.3 24.5 73.5
130 60.7 31.7 95.1

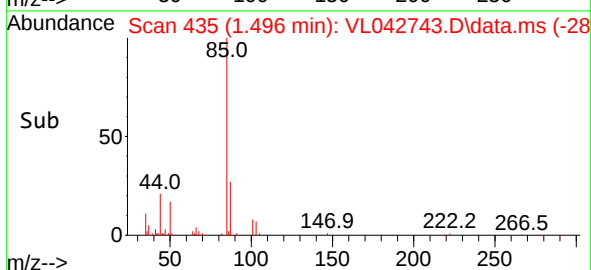
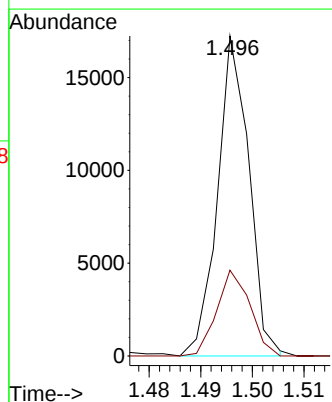
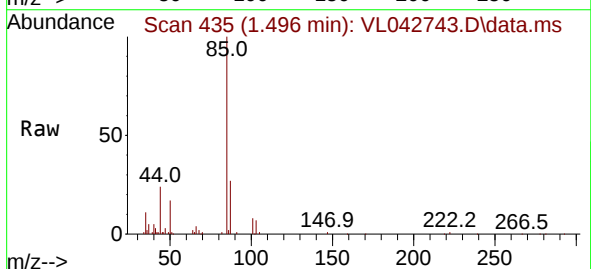
Manual Integrations
APPROVED

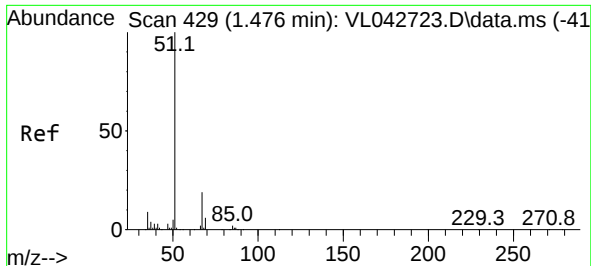
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#2
Dichlorodifluoromethane
Concen: 0.427 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

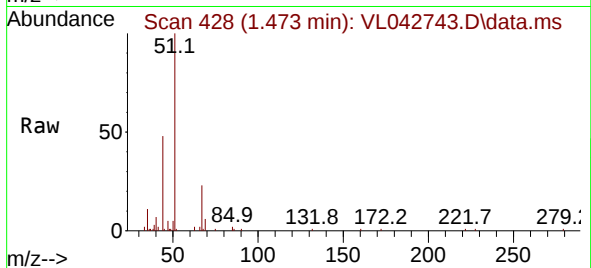
Tgt Ion: 85 Resp: 7298
Ion Ratio Lower Upper
85 100
87 26.8 27.5 41.3#





#3
Chlorodifluoromethane
Concen: 0.200 ppbv m
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

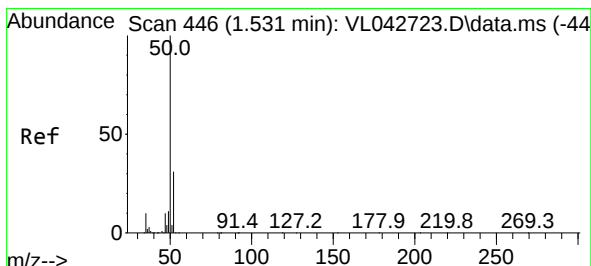
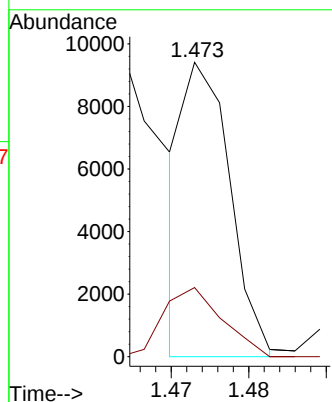
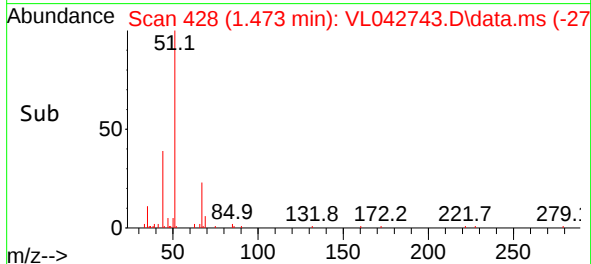
Instrument :
MSVOA_L
ClientSampleId :
OA1



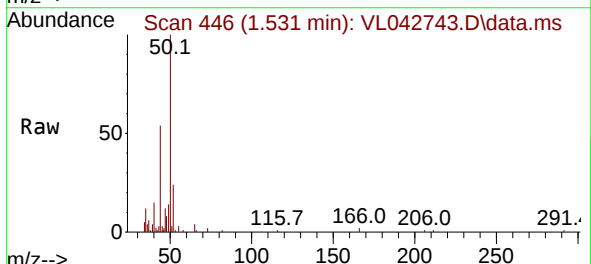
Tgt Ion: 51 Resp: 3860
Ion Ratio Lower Upper
51 100
67 30.4 16.0 24.0

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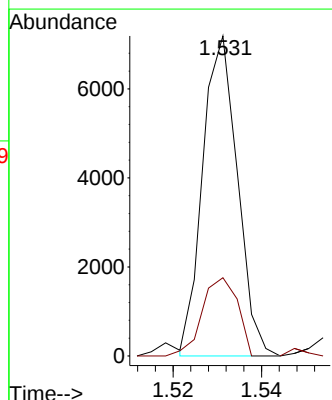
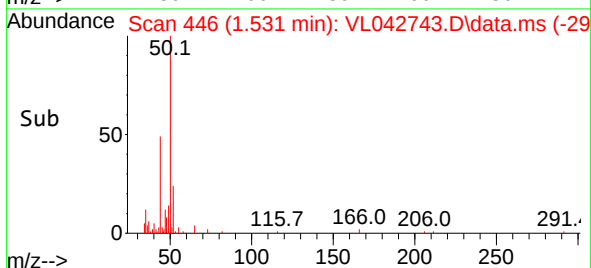
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

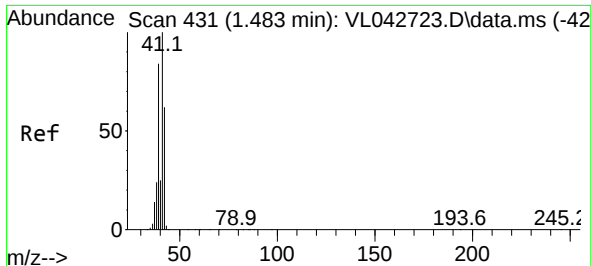


#4
Chloromethane
Concen: 0.561 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15



Tgt Ion: 50 Resp: 3923
Ion Ratio Lower Upper
50 100
52 24.5 24.9 37.3





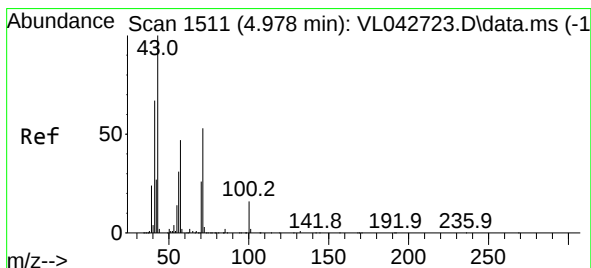
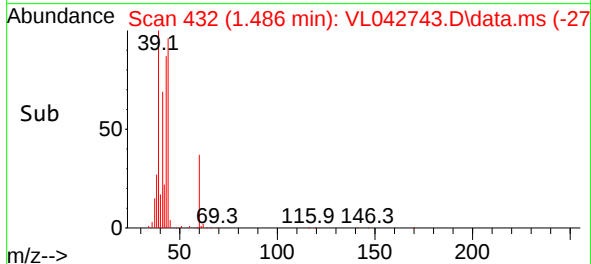
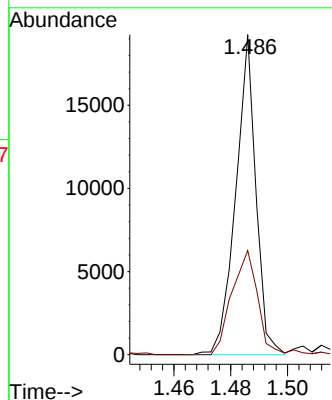
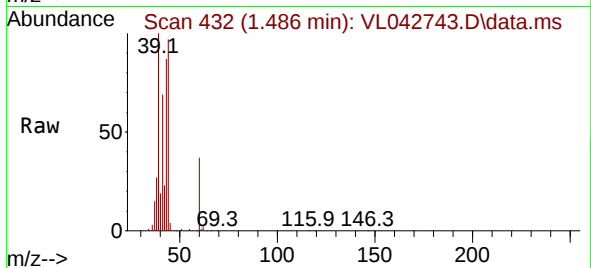
#9
 Propene
 Concen: 1.380 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042743.D
 Acq: 22 Jul 2025 23:15

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 41 Resp: 9450
 Ion Ratio Lower Upper
 41 100
 42 92.9 52.0 78.0

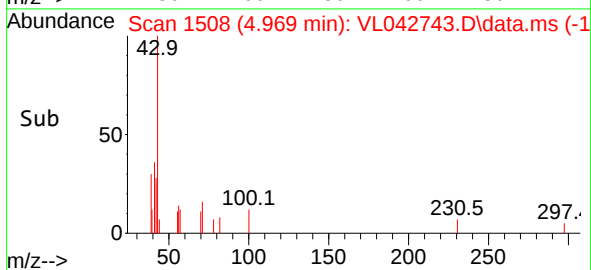
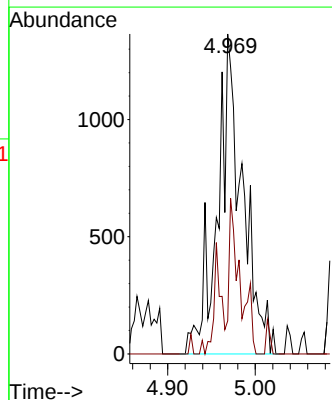
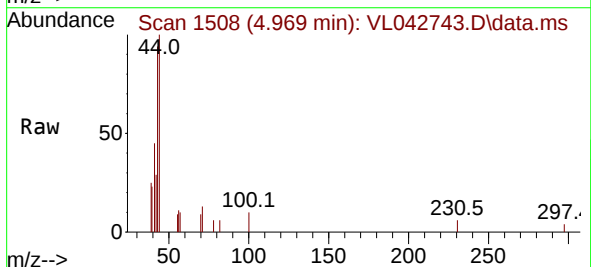
Manual Integrations
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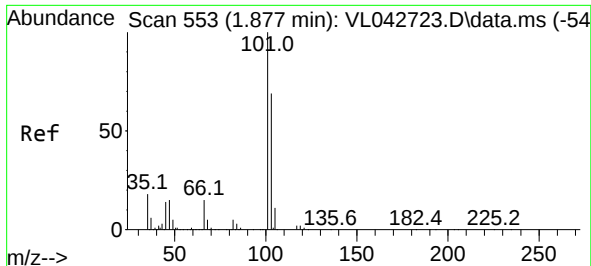
Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025



#10
 Heptane
 Concen: 0.141 ppbv m
 RT: 4.969 min Scan# 1508
 Delta R.T. -0.010 min
 Lab File: VL042743.D
 Acq: 22 Jul 2025 23:15

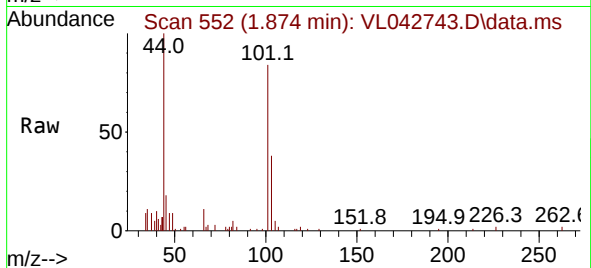
Tgt Ion: 43 Resp: 2683
 Ion Ratio Lower Upper
 43 100
 57 32.2 39.1 58.7





#11
 Trichlorofluoromethane
 Concen: 0.206 ppbv m
 RT: 1.874 min Scan# 501
 Delta R.T. -0.003 min
 Lab File: VL042743.D
 Acq: 22 Jul 2025 23:15

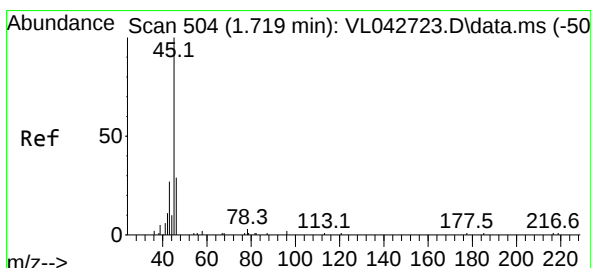
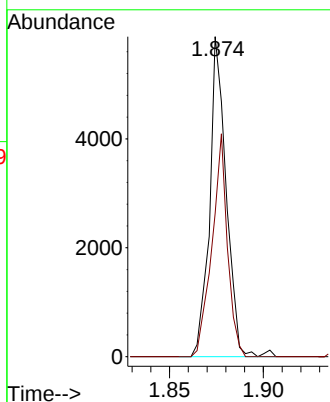
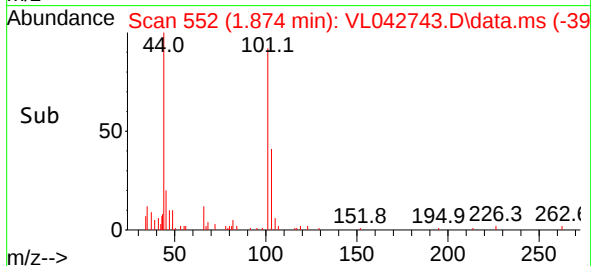
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



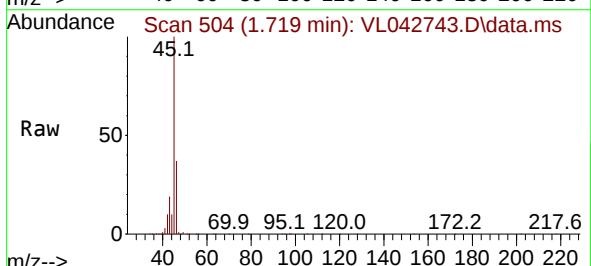
Tgt Ion:101 Resp: 362
 Ion Ratio Lower Upper
 101 100
 103 44.8 55.2 82.8

Manual Integrations
 APPROVED

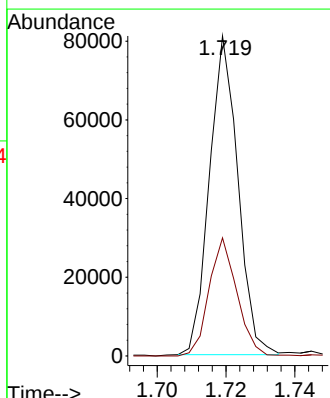
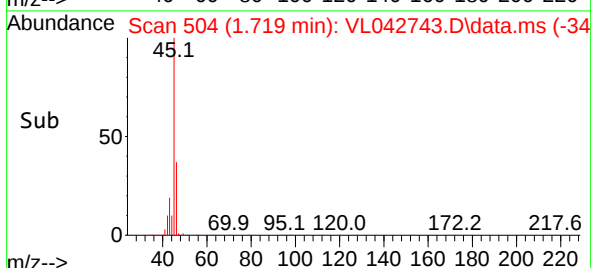
Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

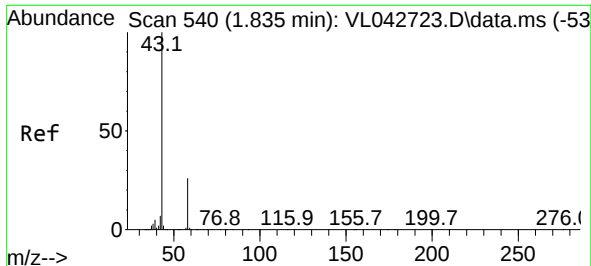


#13
 Ethanol
 Concen: 40.370 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042743.D
 Acq: 22 Jul 2025 23:15



Tgt Ion: 45 Resp: 46540
 Ion Ratio Lower Upper
 45 100
 46 36.7 16.3 65.1





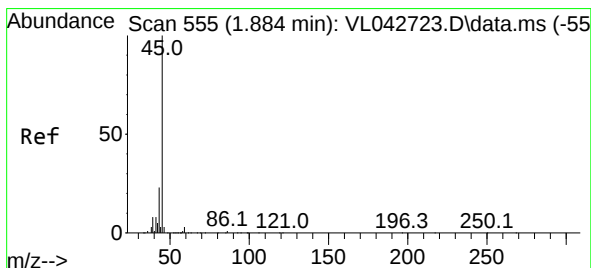
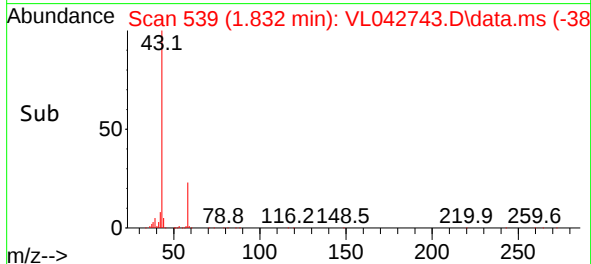
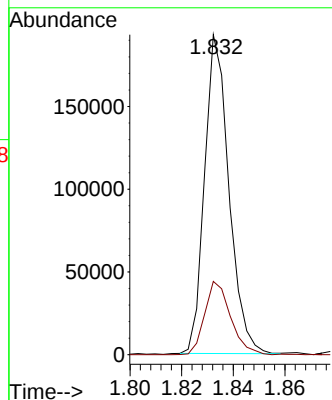
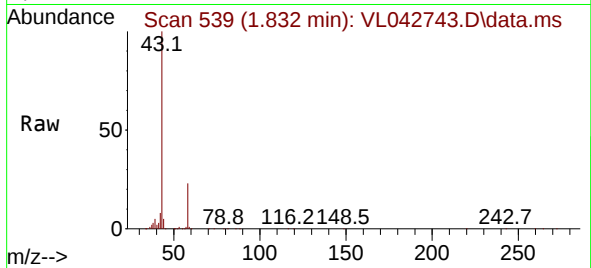
#15
Acetone
Concen: 6.901 ppbv
RT: 1.832 min Scan# 518
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 126418
Ion Ratio Lower Upper
43 100
58 24.5 20.5 30.7

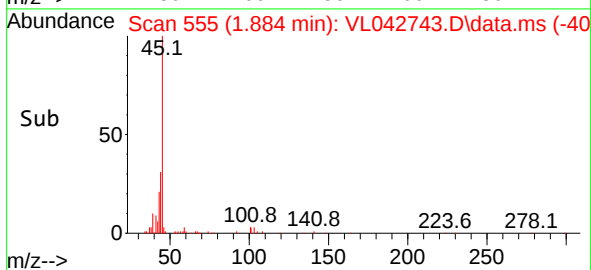
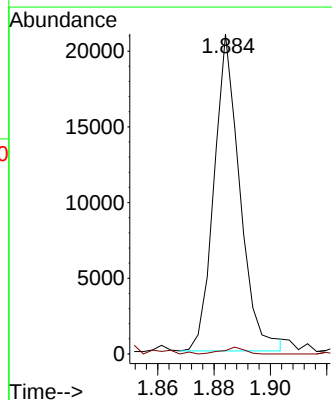
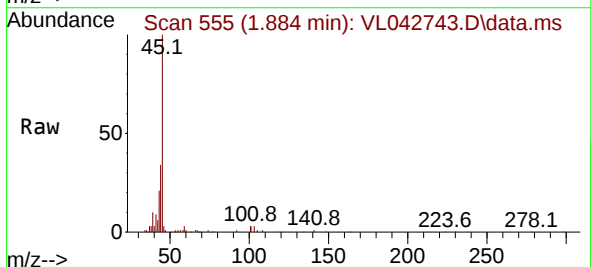
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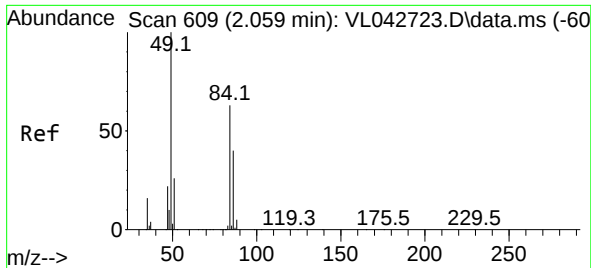
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#19
Isopropyl Alcohol
Concen: 1.371 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Tgt Ion: 45 Resp: 13308
Ion Ratio Lower Upper
45 100
58 232.7 30.6 46.0#





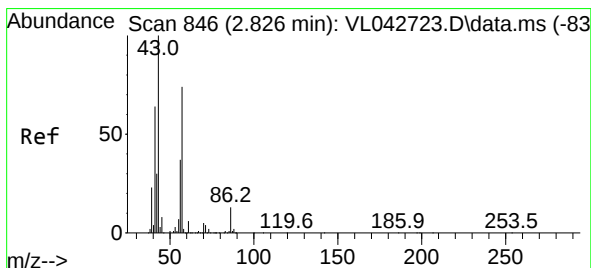
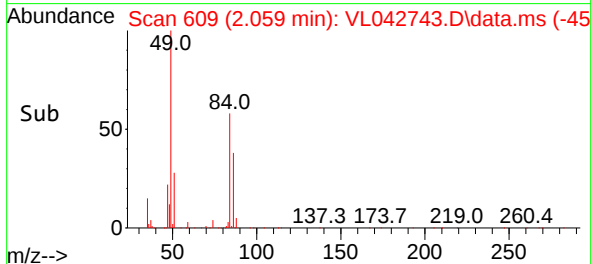
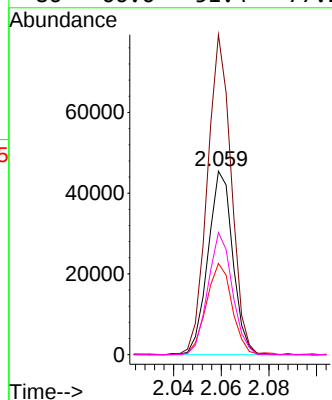
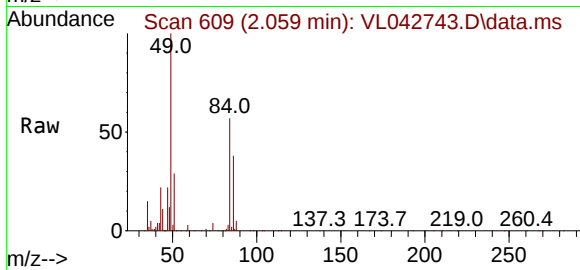
#20
Methylene Chloride
Concen: 5.698 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:	84	Resp:	3280
Ion	Ratio	Lower	Upper
84	100		
49	174.2	128.2	192.4
51	49.7	34.5	51.7
86	66.6	51.4	77.2

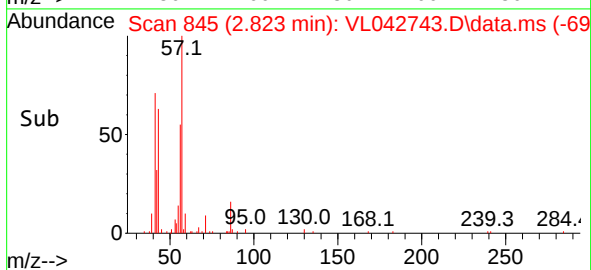
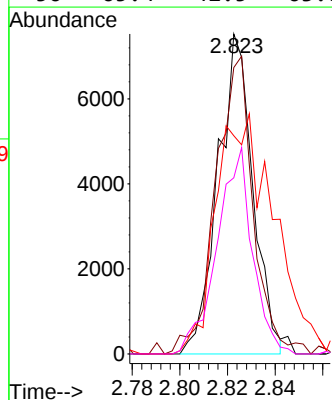
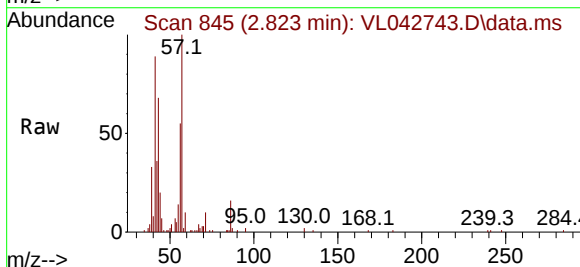
Manual Integrations
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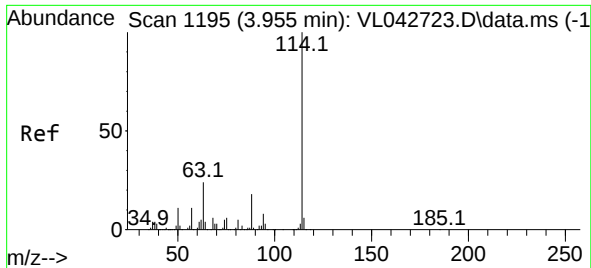
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#26
Hexane
Concen: 0.516 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Tgt Ion:	57	Resp:	7659
Ion	Ratio	Lower	Upper
57	100		
41	104.6	77.3	115.9
43	132.4	182.3	273.5#
56	65.4	42.5	63.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042743.D

Acq: 22 Jul 2025 23:15

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:114 Resp: 32380

Ion Ratio Lower Upper

114 100

63 25.3 20.4 30.6

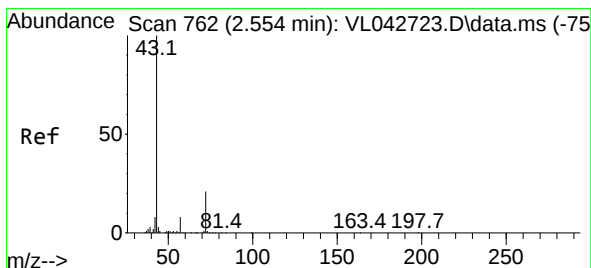
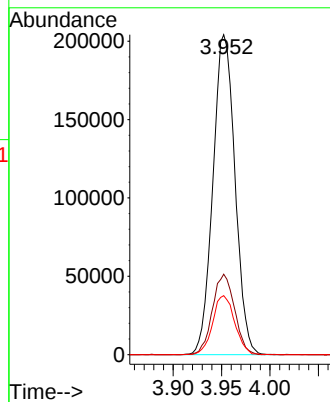
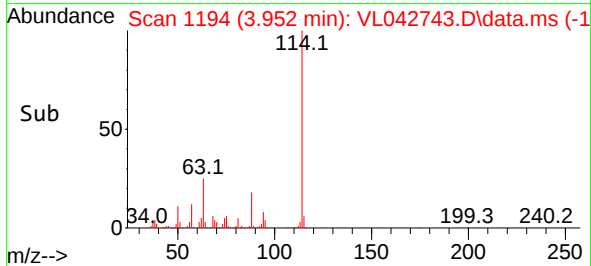
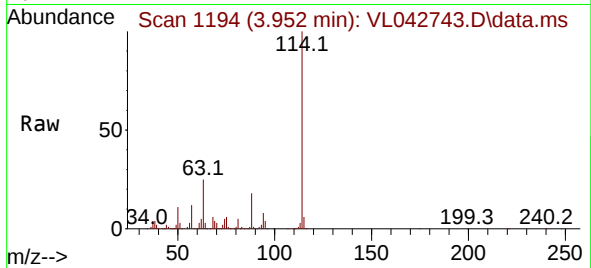
88 18.5 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025

Supervised By :Mahesh Dadoda 07/23/2025



#34

2-Butanone

Concen: 0.769 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042743.D

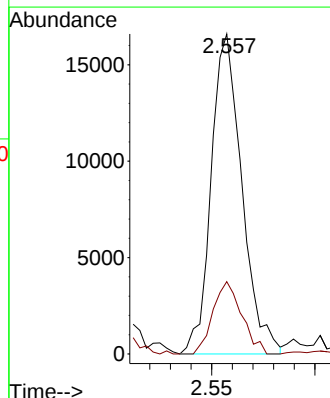
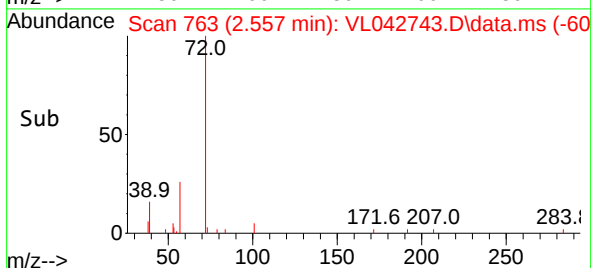
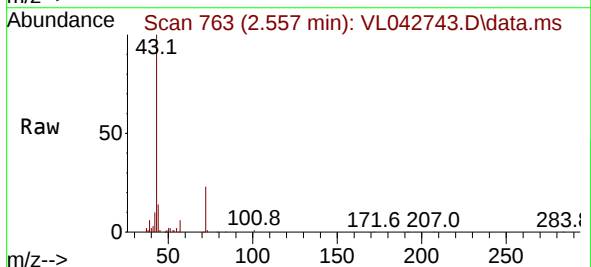
Acq: 22 Jul 2025 23:15

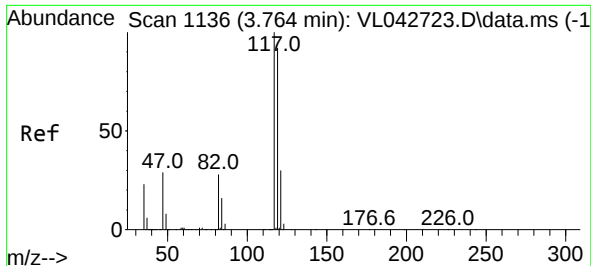
Tgt Ion: 43 Resp: 17157

Ion Ratio Lower Upper

43 100

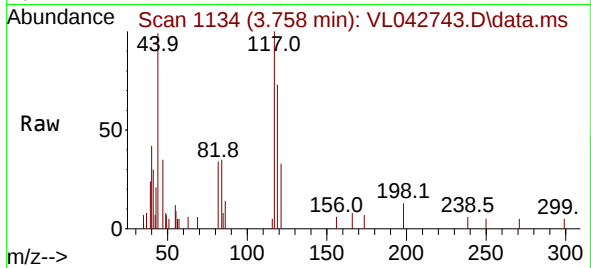
72 21.5 17.0 25.6





#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 3.758 min Scan# 1136
Delta R.T. -0.006 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

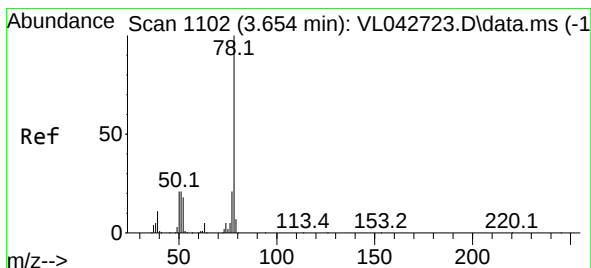
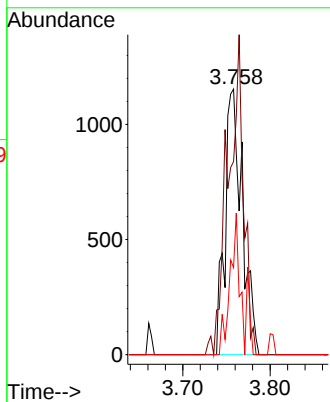
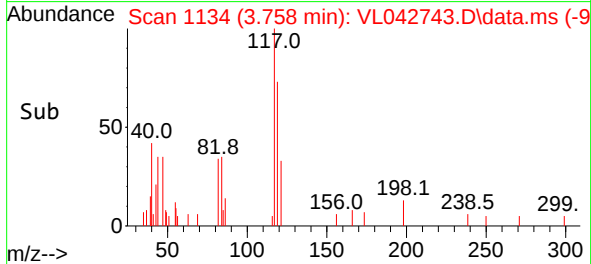
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:117 Resp: 1580
Ion Ratio Lower Upper
117 100
119 72.7 73.7 110.5
121 32.8 23.8 35.8

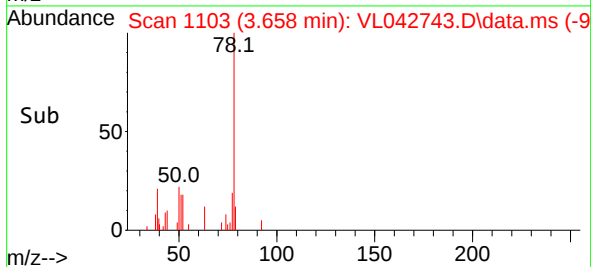
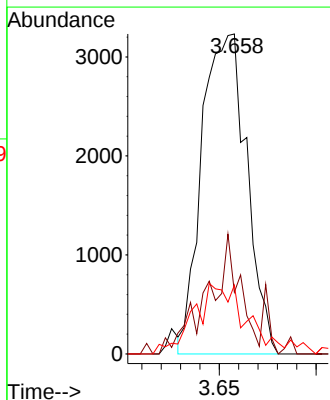
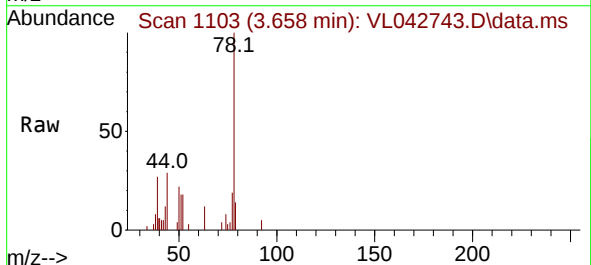
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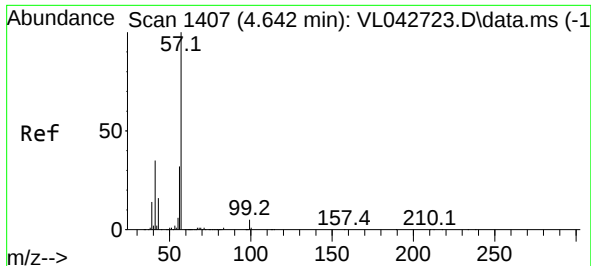
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#36
Benzene
Concen: 0.173 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

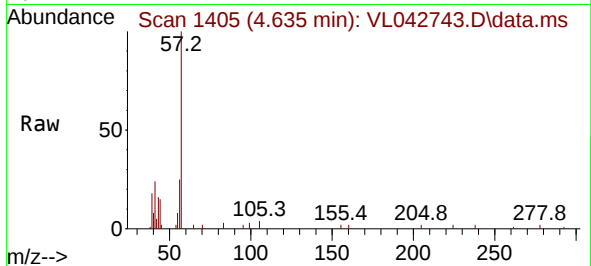
Tgt Ion: 78 Resp: 5201
Ion Ratio Lower Upper
78 100
77 19.3 17.0 25.4
50 18.4 16.9 25.3





#44
2,2,4-Trimethylpentane
Concen: 0.146 ppbv m
RT: 4.635 min Scan# 1407
Delta R.T. -0.006 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

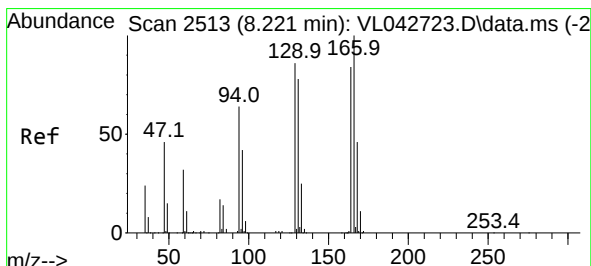
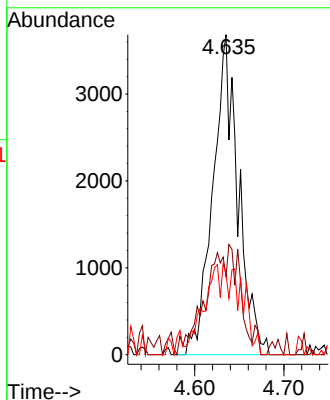
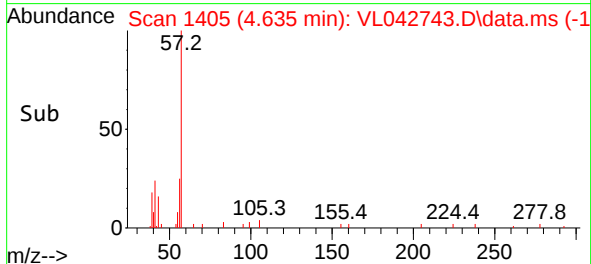
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 57 Resp: 7214
Ion Ratio Lower Upper
57 100
41 53.3 29.4 44.0
56 0.0 26.1 39.1

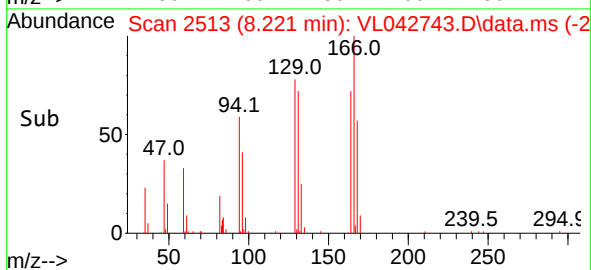
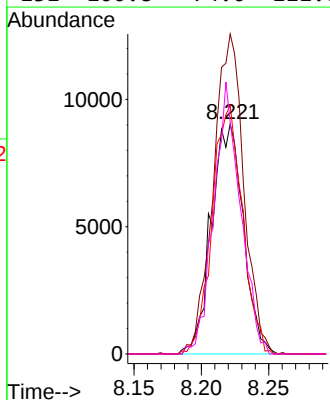
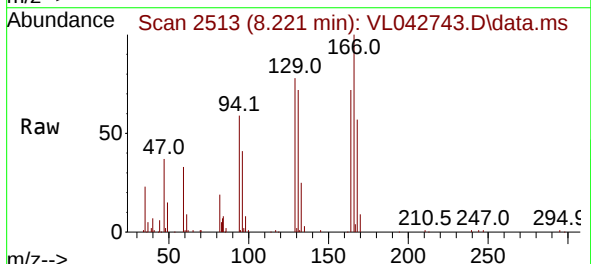
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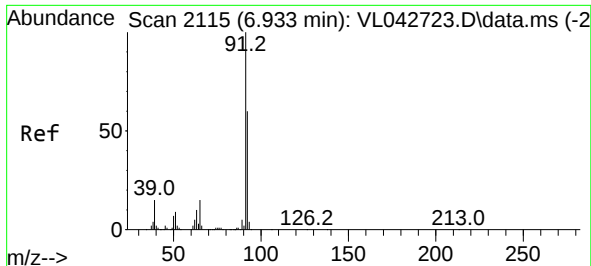
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#52
Tetrachloroethene
Concen: 1.230 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Tgt Ion:164 Resp: 14913
Ion Ratio Lower Upper
164 100
166 139.1 95.1 142.7
129 108.1 81.9 122.9
131 100.8 74.0 111.0





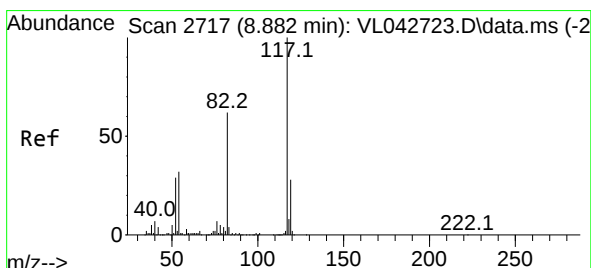
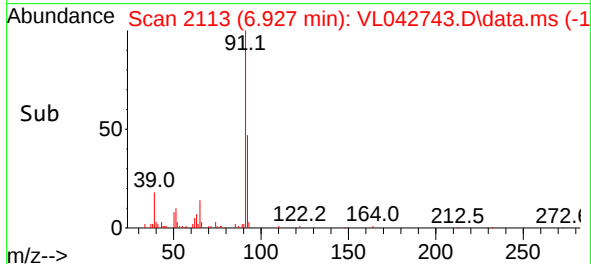
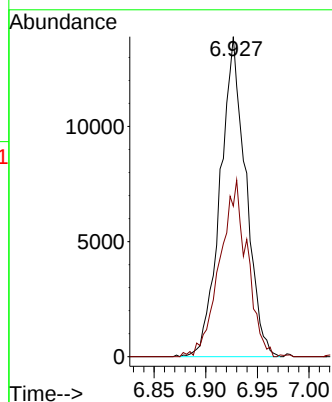
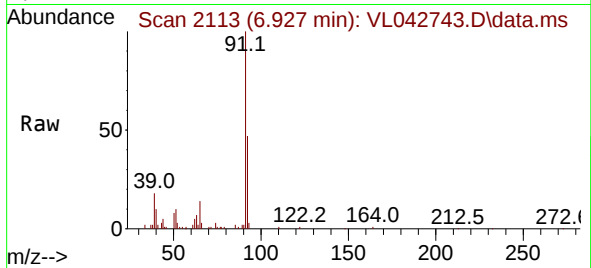
#53
Toluene
Concen: 0.706 ppbv
RT: 6.927 min Scan# 2115
Delta R.T. -0.006 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 23962
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4

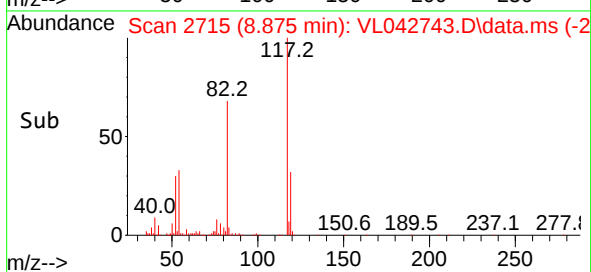
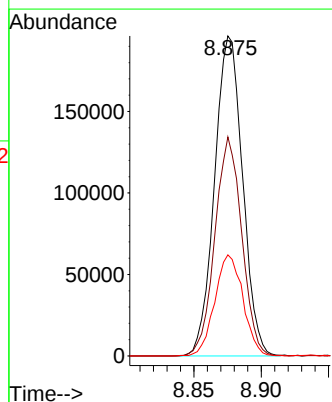
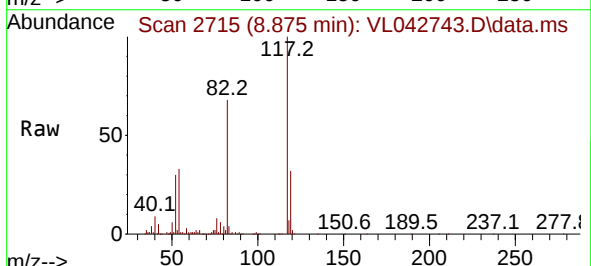
Manual Integrations
APPROVED

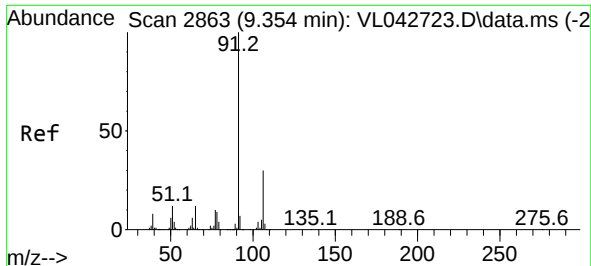
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Tgt Ion:117 Resp: 284327
Ion Ratio Lower Upper
117 100
82 65.7 54.6 81.8
119 31.7 25.3 37.9





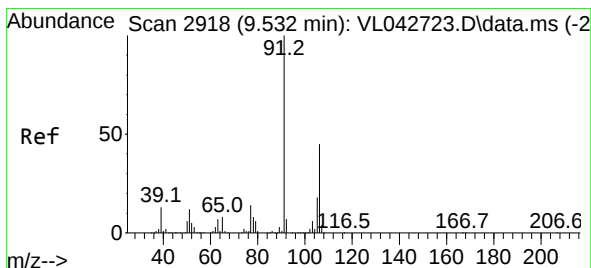
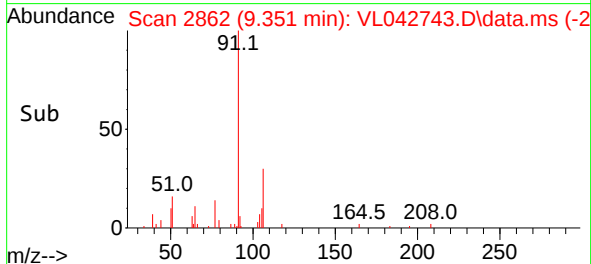
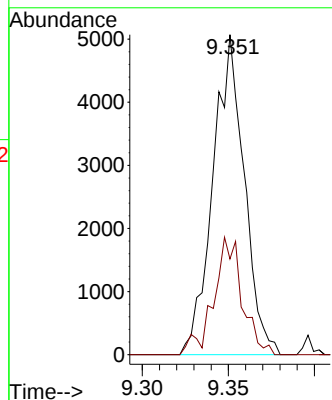
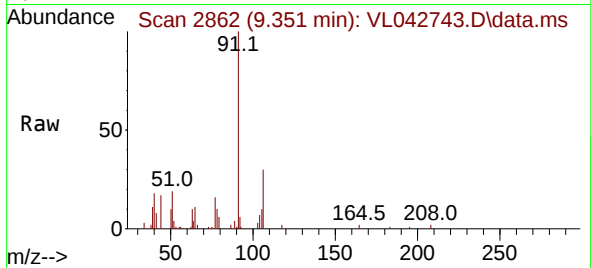
#58
Ethyl Benzene
Concen: 0.135 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 642
Ion Ratio Lower Upper
91 100
106 29.9 23.7 35.5

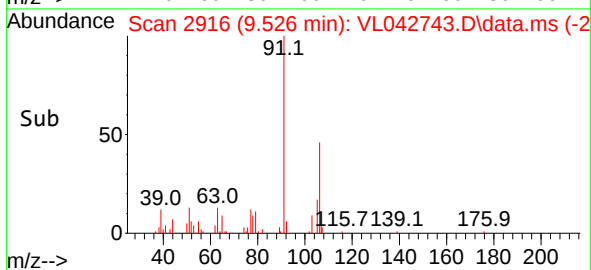
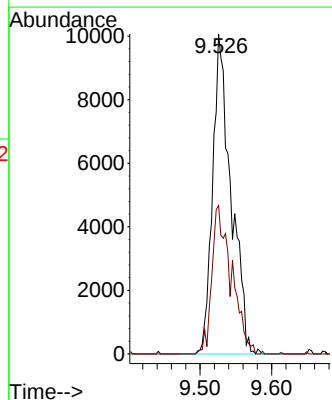
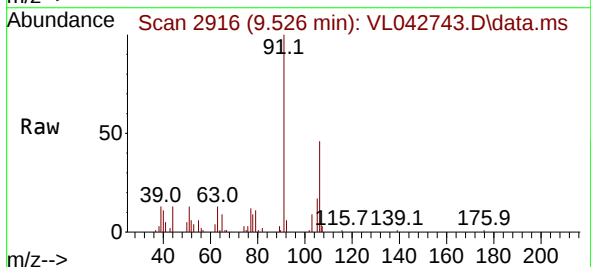
Manual Integrations
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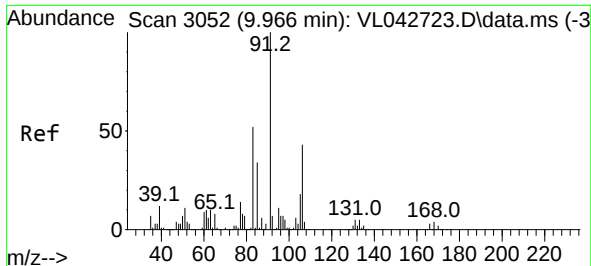
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#59
m/p-Xylene
Concen: 0.473 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.006 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Tgt Ion: 91 Resp: 17969
Ion Ratio Lower Upper
91 100
106 49.2 37.3 55.9





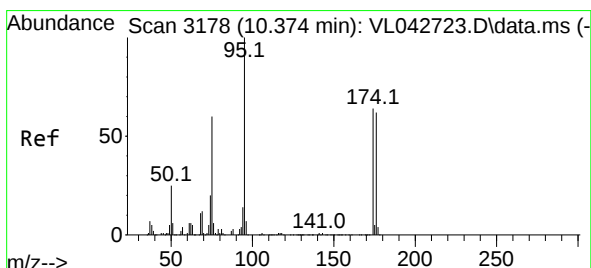
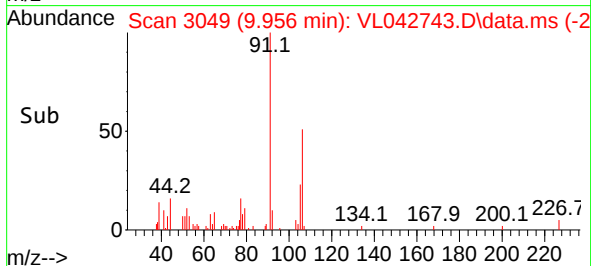
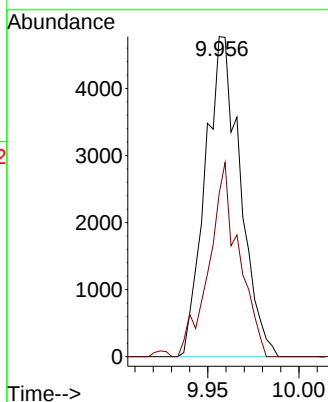
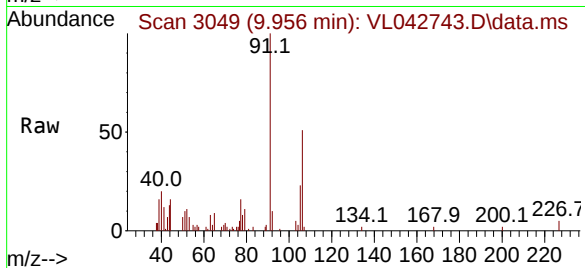
#60
o-Xylene
Concen: 0.166 ppbv
RT: 9.956 min Scan# 3052
Delta R.T. -0.010 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 637
Ion Ratio Lower Upper
91 100
106 52.3 21.4 64.3

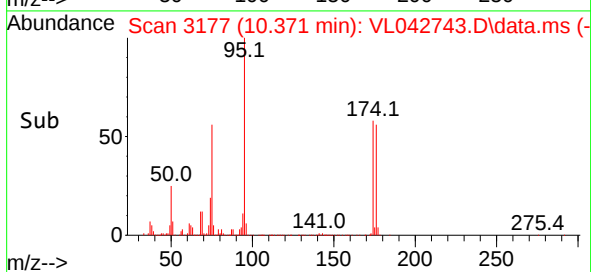
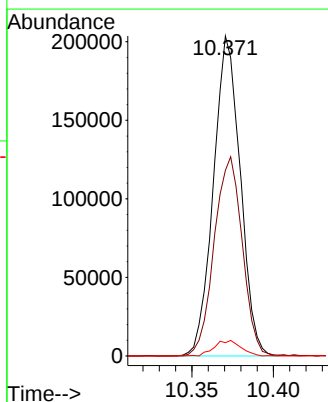
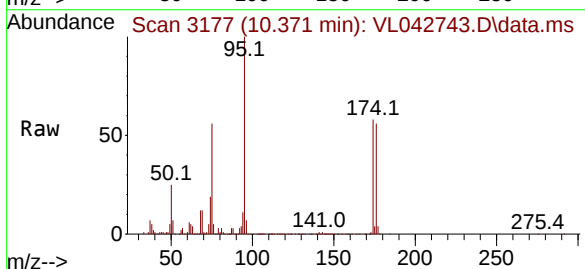
Manual Integrations
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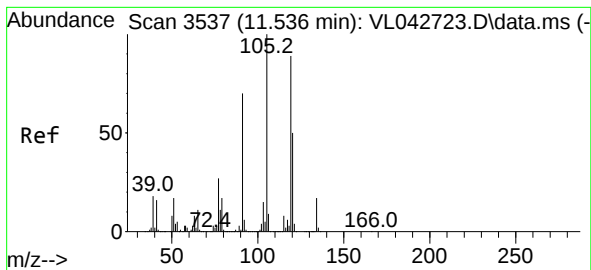
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.160 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

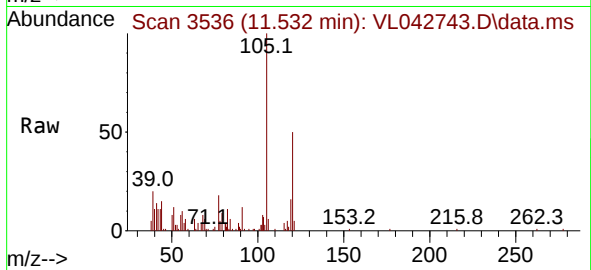
Tgt Ion: 95 Resp: 233470
Ion Ratio Lower Upper
95 100
174 65.1 51.4 77.2
175 4.9 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.217 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.003 min
 Lab File: VL042743.D
 Acq: 22 Jul 2025 23:15

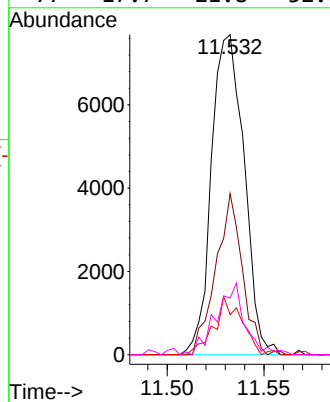
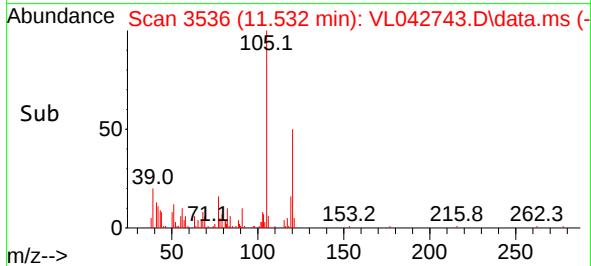
Instrument : MSVOA_L
 ClientSampleId : OA1



Tgt Ion:	105	Resp:	9010
Ion Ratio	Lower	Upper	
105	100		
120	50.3	39.9	59.9
91	12.5	56.5	84.7
77	17.7	21.8	32.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>GFEL01</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q2632</u>
Instrument ID: <u>MSVOA_L</u>	Calibration Date(s): <u>07/22/2025</u> <u>07/22/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>08:55</u> <u>12:56</u>
GC Column: <u>RTX-1</u> ID: <u>0.32</u> (mm)	

LAB FILE ID:		RRF010 = VL042723.D		RRF002 = VL042724.D		RRF001 = VL042725.D		
		RRF0.5 = VL042726.D		RRF.03 = VL042728.D		RRF015 = VL042729.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF.03	RRF015	RRF	% RSD
Vinyl Chloride	0.525	0.597	0.560	0.569	0.911	0.533	0.631	22.3
Heptane	1.649	1.877	1.750	1.814		1.621	1.742	6.2
1,1-Dichloroethene	0.503	0.541	0.550	0.572		0.507	0.535	5.5
Cyclohexane	1.149	1.228	1.166	1.211		1.160	1.183	2.9
cis-1,2-Dichloroethene	1.370	1.535	1.460	1.552		1.380	1.459	5.8
1,1,1-Trichloroethane	2.182	2.401	2.354	2.381	2.827	2.234	2.357	9.9
2,2,4-Trimethylpentane	1.401	1.599	1.664	1.513		1.447	1.525	7.1
Benzene	0.857	0.944	0.981	0.972		0.891	0.929	5.7
Trichloroethene	0.397	0.443	0.479	0.482	0.459	0.407	0.453	8.7
Toluene	1.001	1.090	1.076	1.036		1.034	1.047	3.4
Tetrachloroethene	0.342	0.379	0.393	0.389	0.360	0.348	0.374	6.6
Ethyl Benzene	1.593	1.771	1.722	1.631		1.636	1.671	4.4
m/p-Xylene	1.266	1.424	1.372	1.308		1.312	1.336	4.6
o-Xylene	1.272	1.424	1.409	1.341		1.301	1.349	4.9
1,3,5-Trimethylbenzene	1.332	1.408	1.345	1.210		1.359	1.331	5.5
1,2,4-Trimethylbenzene	1.433	1.518	1.479	1.397		1.473	1.460	3.2
Naphthalene	1.448	1.086	0.885	0.714		1.540	1.092	30.6
1-Bromo-4-Fluorobenzene	0.813	0.809	0.797	0.813	0.806	0.828	0.808	1.4
Hexane	1.292	1.499	1.391	1.333		1.263	1.355	6.9

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

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

Method File : VL072225AIR.M

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

Last Update : Wed Jul 23 02:51:39 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042728.D 0.1 =VL042730.D 0.5 =VL042726.D 1 =VL042725.D 2 =VL042724.D 10 =VL042723.D 15 =VL042729.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.538	1.632	1.682	1.454	1.499	1.561	6.04
3) Chlorodifluoro...			1.854	1.841	1.877	1.623	1.632	1.766	7.17
4) Chloromethane			0.692	0.640	0.679	0.602	0.583	0.639	7.39
5) T Vinyl Chloride	0.911	0.726	0.569	0.560	0.597	0.525	0.533	0.631	22.25
6) T Bromomethane			0.284	0.262	0.275	0.232	0.225	0.256	10.15
7) Chloroethane			0.268	0.259	0.257	0.199	0.218	0.240	12.40
8) T Dichlorotetra...			1.383	1.387	1.402	1.183	1.228	1.317	7.84
9) T Propene			0.643	0.617	0.680	0.608	0.584	0.626	5.89
10) T Heptane			1.814	1.750	1.877	1.649	1.621	1.742	6.20
11) T Trichlorofluor...			1.681	1.689	1.721	1.419	1.524	1.607	8.08
12) T 1,1,2-Trichlor...			1.390	1.275	1.330	1.110	1.180	1.257	8.95
13) Ethanol			0.145	0.135	0.112	0.073	0.063	0.105	34.62
14) T Bromoethene			0.480	0.465	0.476	0.397	0.423	0.448	8.21
15) T Acetone			1.964	1.940	1.976	1.218	1.275	1.674	23.37
16) T 1,3-Butadiene			0.756	0.778	0.786	0.617	0.648	0.717	10.96
17) tert-Butyl alc...			1.801	1.600	1.653	1.464	1.432	1.590	9.40
18) T 1,1-Dichloroet...			0.572	0.550	0.541	0.503	0.507	0.535	5.51
19) T Isopropyl Alcohol			0.985	0.944	0.901	0.814	0.793	0.887	9.29
20) T Methylene Chlo...			0.676	0.561	0.550	0.423	0.422	0.526	20.31
21) T Allyl Chloride			1.179	1.057	1.121	0.992	1.017	1.073	7.14
22) T trans-1,2-Dich...			0.680	0.629	0.636	0.546	0.575	0.613	8.66
23) T Vinyl Acetate			2.045	1.939	1.931	1.776	1.854	1.909	5.28
24) T 1,1-Dichloroet...			1.333	1.226	1.227	1.141	1.205	1.226	5.64
25) T Ethyl Acetate			3.105	3.155	3.334	2.931	2.923	3.090	5.54
26) T Hexane			1.333	1.391	1.499	1.292	1.263	1.355	6.90
27) T Carbon Disulfide			1.509	1.435	1.519	1.378	1.398	1.448	4.42
28) T Methyl tert-Bu...			0.824	0.842	0.836	0.691	0.746	0.788	8.45
29) T Chloroform			2.358	2.350	2.360	2.036	2.087	2.238	7.26
30) T Cyclohexane			1.211	1.166	1.228	1.149	1.160	1.183	2.91
31) T cis-1,2-Dichlo...			1.552	1.460	1.535	1.370	1.380	1.459	5.81
32) T 1,1,1-Trichlor...	2.827	2.119	2.381	2.354	2.401	2.182	2.234	2.357	9.88

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.751	0.707	0.720	0.630	0.635	0.689	7.79
35) T Carbon Tetrach...	0.979	0.926	0.741	0.802	0.794	0.724	0.768	0.819	11.77
36) T Benzene			0.972	0.981	0.944	0.857	0.891	0.929	5.73
37) T 1,2-Dichloroet...			0.595	0.637	0.594	0.541	0.595	0.593	5.73
38) T Trichloroethene	0.459	0.503	0.482	0.479	0.443	0.397	0.407	0.453	8.74
39) T 1,2-Dichloropr...			0.397	0.359	0.352	0.306	0.315	0.346	10.62

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL072225AIR.M										
40) T	1,4-Dioxane			0.174	0.196	0.168	0.140	0.146	0.165	13.82
41) T	Tetrahydrofuran			0.354	0.353	0.354	0.337	0.338	0.347	2.61
42) T	Bromodichlorom...			0.750	0.822	0.784	0.734	0.785	0.775	4.41
43) T	Methyl Methacr...			0.334	0.389	0.373	0.340	0.349	0.357	6.51
44) T	2,2,4-Trimethy...			1.513	1.664	1.599	1.401	1.447	1.525	7.06
45) T	t-1,3-Dichloro...			0.427	0.467	0.425	0.422	0.450	0.438	4.44
46) T	cis-1,3-Dichlo...			0.496	0.529	0.531	0.521	0.528	0.521	2.77
47) T	1,1,2-Trichlor...			0.398	0.418	0.385	0.338	0.357	0.379	8.41
48) T	Dibromochlorom...			0.605	0.653	0.621	0.622	0.649	0.630	3.27
49) T	Bromoform			0.494	0.554	0.558	0.542	0.572	0.544	5.49
50) T	4-Methyl-2-Pen...			0.899	0.912	0.931	0.877	0.892	0.902	2.29
51) T	2-Hexanone			0.666	0.739	0.739	0.714	0.742	0.720	4.49
52) T	Tetrachloroethene	0.360	0.408	0.389	0.393	0.379	0.342	0.348	0.374	6.62
53) T	Toluene			1.036	1.076	1.090	1.001	1.034	1.047	3.40
54) T	1,2-Dibromoethane		0.635	0.547	0.581	0.568	0.520	0.535	0.564	7.32
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.582	0.548	0.551	0.500	0.513	0.539	6.07
57) T	Chlorobenzene			0.985	1.010	1.020	0.862	0.885	0.953	7.73
58) T	Ethyl Benzene			1.631	1.722	1.771	1.593	1.636	1.671	4.39
59) T	m/p-Xylene			1.308	1.372	1.424	1.266	1.312	1.336	4.64
60) T	o-Xylene			1.341	1.409	1.424	1.272	1.301	1.349	4.92
61) T	Styrene			0.537	0.603	0.602	0.573	0.591	0.581	4.69
62) T	Isopropylbenzene			2.032	2.090	2.144	1.857	1.906	2.006	6.05
63) T	1,1,2,2-Tetrac...	0.790	0.882	0.805	0.764	0.782	0.676	0.702	0.771	8.84
64) T	n-propylbenzene			0.504	0.526	0.531	0.472	0.497	0.506	4.68
65) T	tert-Butylbenzene			1.801	1.894	1.940	1.651	1.689	1.795	6.99
66) T	Benzyl Chloride			0.137	0.165	0.158	0.193	0.201	0.171	15.13
67) T	sec-Butylbenzene			2.465	2.578	2.636	2.274	2.375	2.466	5.97
68) S	1-Bromo-4-Fluo...	0.806	0.792	0.813	0.797	0.809	0.813	0.828	0.808	1.42
69) T	p-Isopropyltol...			1.905	2.175	2.229	1.979	2.038	2.065	6.53
70) T	n-Butylbenzene			1.717	2.031	2.142	1.960	2.019	1.974	7.99
71) T	2-Chlorotoluene			1.491	1.570	1.633	1.429	1.480	1.521	5.29
72) T	4-Ethyltoluene			1.521	1.632	1.709	1.558	1.625	1.609	4.52
73) T	1,3,5-Trimethy...			1.210	1.345	1.408	1.332	1.359	1.331	5.50
74) T	1,2,4-Trimethy...			1.397	1.479	1.518	1.433	1.473	1.460	3.18
75) T	1,3-Dichlorobe...			1.007	1.023	1.048	0.877	0.928	0.976	7.33
76) T	1,4-Dichlorobe...			0.893	0.992	1.017	0.897	0.923	0.945	6.00
77) T	1,2-Dichlorobe...			0.952	1.026	0.979	0.838	0.886	0.936	7.95
78) T	Hexachloro-1,3...			0.969	1.049	1.021	0.739	0.779	0.911	15.65
79) T	Naphthalene		0.881	0.714	0.885	1.086	1.448	1.540	1.092	30.58
80) T	Naphthalene,2-...			0.053	0.081	0.126	0.724	0.813	0.359	104.52
81) T	1,2,4-Trichlor...			0.395	0.602	0.698	0.802	0.834	0.666	26.61

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042723.D
 Acq On : 22 Jul 2025 08:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:29:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	103624	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	320455	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	287373	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 233616 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	150708	9.316	ppbv	100
3) Chlorodifluoromethane	1.476	51	168230	9.188	ppbv	100
4) Chloromethane	1.531	50	62368	9.415	ppbv	100
5) Vinyl Chloride	1.580	62	54376	8.310	ppbv	100
6) Bromomethane	1.667	94	24061	9.086	ppbv	100
7) Chloroethane	1.703	64	20641	8.296	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	122544	8.981	ppbv	100
9) Propene	1.483	41	62955	9.672	ppbv	100
10) Heptane	4.978	43	170864	9.421	ppbv	100
11) Trichlorofluoromethane	1.877	101	147017	8.831	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	115056	8.833	ppbv	100
13) Ethanol	1.719	45	7545m	7.206	ppbv	
14) Bromoethene	1.780	108	41089	8.847	ppbv	100
15) Acetone	1.835	43	126212	7.274	ppbv	100
16) 1,3-Butadiene	1.609	39	63985	8.611	ppbv	100
17) tert-Butyl alcohol	2.039	59	151668	9.206	ppbv	100
18) 1,1-Dichloroethene	2.033	96	52093	9.404	ppbv	100
19) Isopropyl Alcohol	1.884	45	84334	9.171	ppbv	100
20) Methylene Chloride	2.059	84	43816	8.033	ppbv	100
21) Allyl Chloride	2.094	41	102783	9.241	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	56551	8.871	ppbv	100
23) Vinyl Acetate	2.460	43	184024	9.303	ppbv	100
24) 1,1-Dichloroethane	2.408	63	118220	9.302	ppbv	100
25) Ethyl Acetate	2.832	43	303752	9.487	ppbv	100
26) Hexane	2.826	57	133894	9.532	ppbv	100
27) Carbon Disulfide	2.149	76	142744	9.515	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	71602	8.769	ppbv	100
29) Chloroform	2.848	83	211013	9.098	ppbv	100
30) Cyclohexane	3.855	84	119069	9.715	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	141958	9.386	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	226089	9.258	ppbv	100
34) 2-Butanone	2.554	43	201816	9.146	ppbv	100
35) Carbon Tetrachloride	3.764	117	232054	8.838	ppbv	100
36) Benzene	3.654	78	274769	9.229	ppbv	100
37) 1,2-Dichloroethane	3.217	62	173509	9.137	ppbv	100
38) Trichloroethene	4.548	130	127306	8.783	ppbv	100
39) 1,2-Dichloropropane	4.311	63	98188	8.858	ppbv	100
40) 1,4-Dioxane	4.580	88	44753	8.762	ppbv #	96
41) Tetrahydrofuran	3.052	42	107955	9.572	ppbv	100
42) Bromodichloromethane	4.486	83	235255	9.466	ppbv	100
43) Methyl Methacrylate	4.878	69	108863	9.534	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	449058	9.145	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	135146	9.625	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042723.D
 Acq On : 22 Jul 2025 08:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:29:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	167051	10.017	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	108420	8.927	ppbv	100
48) Dibromochloromethane	7.386	129	199262	9.872	ppbv	100
49) Bromoform	9.484	173	173745	9.920	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	280957	9.677	ppbv	100
51) 2-Hexanone	7.432	43	228706	9.846	ppbv	100
52) Tetrachloroethene	8.221	164	109482	9.126	ppbv	100
53) Toluene	6.933	91	320906	9.560	ppbv	100
54) 1,2-Dibromoethane	7.652	107	166533	9.176	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	143657	9.279	ppbv	99
57) Chlorobenzene	8.920	112	247623	9.040	ppbv	100
58) Ethyl Benzene	9.354	91	457732	9.535	ppbv	100
59) m/p-Xylene	9.532	91	727630m	18.913	ppbv	
60) o-Xylene	9.966	91	365462	9.425	ppbv	100
61) Styrene	9.869	104	164780	9.866	ppbv	100
62) Isopropylbenzene	10.539	105	533747	9.259	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	194147	8.757	ppbv	100
64) n-propylbenzene	10.989	120	135616	9.327	ppbv	100
65) tert-Butylbenzene	11.529	119	474362	9.196	ppbv	100
66) Benzyl Chloride	11.613	91	55364	11.294	ppbv	100
67) sec-Butylbenzene	11.769	105	653393	9.222	ppbv	100
69) p-Isopropyltoluene	11.924	119	568746	9.583	ppbv	100
70) n-Butylbenzene	12.280	91	563329	9.932	ppbv	100
71) 2-Chlorotoluene	10.901	91	410769	9.401	ppbv	100
72) 4-Ethyltoluene	11.125	105	447687	9.682	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	382699	10.007	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	411894	9.816	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	251931	8.978	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	257811	9.498	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	240874	8.954	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	212439	8.113	ppbv	100
79) Naphthalene	13.513	128	416154	13.303	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	208162	20.227	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	230529	12.042	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042724.D
 Acq On : 22 Jul 2025 09:30
 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 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:30:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 22 2025

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	101102	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	317924	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	282833	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 228709 10.005 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	34020	2.155	ppbv	92
3) Chlorodifluoromethane	1.476	51	37949	2.124	ppbv	99
4) Chloromethane	1.531	50	13732	2.125	ppbv	95
5) Vinyl Chloride	1.580	62	12070	1.891	ppbv	93
6) Bromomethane	1.667	94	5551	2.148	ppbv	100
7) Chloroethane	1.703	64	5191	2.138	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	28356	2.130	ppbv	97
9) Propene	1.483	41	13758	2.166	ppbv	93
10) Heptane	4.975	43	37947	2.144	ppbv	99
11) Trichlorofluoromethane	1.878	101	34792	2.142	ppbv	89
12) 1,1,2-Trichlorotrifluoro...	2.140	101	26888	2.116	ppbv	99
13) Ethanol	1.719	45	2261	2.213	ppbv	99
14) Bromoethene	1.780	108	9630	2.125	ppbv #	96
15) Acetone	1.835	43	39947	2.360	ppbv	99
16) 1,3-Butadiene	1.609	39	15901	2.193	ppbv	90
17) tert-Butyl alcohol	2.039	59	33425	2.079	ppbv	96
18) 1,1-Dichloroethene	2.033	96	10946	2.025	ppbv #	68
19) Isopropyl Alcohol	1.884	45	18210	2.030	ppbv #	72
20) Methylene Chloride	2.062	84	11131	2.092	ppbv	92
21) Allyl Chloride	2.094	41	22673	2.089	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	12861	2.068	ppbv	81
23) Vinyl Acetate	2.460	43	39040	2.023	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	24816	2.001	ppbv	97
25) Ethyl Acetate	2.832	43	67422	2.158	ppbv	98
26) Hexane	2.826	57	30312	2.212	ppbv	99
27) Carbon Disulfide	2.149	76	30719	2.099	ppbv #	89
28) Methyl tert-Butyl Ether	2.441	73	16908	2.122	ppbv	99
29) Chloroform	2.845	83	47714	2.109	ppbv	94
30) Cyclohexane	3.855	84	24823	2.076	ppbv	92
31) cis-1,2-Dichloroethene	2.719	61	31047	2.104	ppbv	94
32) 1,1,1-Trichloroethane	3.363	97	48546	2.037	ppbv	98
34) 2-Butanone	2.557	43	45795	2.092	ppbv	99
35) Carbon Tetrachloride	3.761	117	50507	1.939	ppbv	95
36) Benzene	3.655	78	60020	2.032	ppbv	98
37) 1,2-Dichloroethane	3.214	62	37767	2.005	ppbv #	93
38) Trichloroethene	4.545	130	28165m	1.959	ppbv	
39) 1,2-Dichloropropane	4.315	63	22394	2.036	ppbv	96
40) 1,4-Dioxane	4.587	88	10669m	2.106	ppbv	
41) Tetrahydrofuran	3.056	42	22526	2.013	ppbv	97
42) Bromodichloromethane	4.486	83	49877	2.023	ppbv	95
43) Methyl Methacrylate	4.878	69	23720	2.094	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	101672m	2.087	ppbv	
45) t-1,3-Dichloropropene	6.409	75	27030m	1.940	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042724.D
 Acq On : 22 Jul 2025 09:30
 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 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:30:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	33787m	2.042	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	24456	2.030	ppbv #	81
48) Dibromochloromethane	7.383	129	39455	1.970	ppbv	98
49) Bromoform	9.484	173	35458	2.041	ppbv	95
50) 4-Methyl-2-Pentanone	5.749	43	59229	2.056	ppbv	99
51) 2-Hexanone	7.435	43	46981	2.039	ppbv #	98
52) Tetrachloroethene	8.221	164	24130	2.027	ppbv	95
53) Toluene	6.933	91	69313	2.081	ppbv	100
54) 1,2-Dibromoethane	7.652	107	36140	2.007	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.927	131	31192	2.047	ppbv	95
57) Chlorobenzene	8.921	112	57715	2.141	ppbv #	94
58) Ethyl Benzene	9.354	91	100177	2.120	ppbv	93
59) m/p-Xylene	9.548	91	161117m	4.255	ppbv	
60) o-Xylene	9.963	91	80565	2.111	ppbv	98
61) Styrene	9.869	104	34062	2.072	ppbv	97
62) Isopropylbenzene	10.539	105	121281	2.138	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.959	83	44263	2.029	ppbv	98
64) n-propylbenzene	10.989	120	30013	2.097	ppbv	97
65) tert-Butylbenzene	11.529	119	109751	2.162	ppbv	98
66) Benzyl Chloride	11.613	91	8963	1.858	ppbv #	96
67) sec-Butylbenzene	11.766	105	149105	2.138	ppbv	98
69) p-Isopropyltoluene	11.924	119	126075	2.158	ppbv	99
70) n-Butylbenzene	12.280	91	121157	2.170	ppbv	99
71) 2-Chlorotoluene	10.901	91	92375	2.148	ppbv	100
72) 4-Ethyltoluene	11.125	105	96669	2.124	ppbv	98
73) 1,3,5-Trimethylbenzene	11.202	105	79639	2.116	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	85886	2.080	ppbv #	86
75) 1,3-Dichlorobenzene	11.604	146	59294	2.147	ppbv	96
76) 1,4-Dichlorobenzene	11.672	146	57524	2.153	ppbv	98
77) 1,2-Dichlorobenzene	11.944	146	55352	2.091	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	57751	2.241	ppbv	100
79) Naphthalene	13.510	128	61412	1.995	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	7143	0.705	ppbv	93
81) 1,2,4-Trichlorobenzene	13.439	180	39481	2.095	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042725.D
 Acq On : 22 Jul 2025 10:04
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:31:02 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	103555	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	310806	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	278751	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 222231 9.864 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	16902	1.046	ppbv	94
3) Chlorodifluoromethane	1.476	51	19069	1.042	ppbv	100
4) Chloromethane	1.534	50	6628	1.001	ppbv	90
5) Vinyl Chloride	1.580	62	5802	0.887	ppbv	95
6) Bromomethane	1.670	94	2716	1.026	ppbv	91
7) Chloroethane	1.706	64	2679	1.077	ppbv #	65
8) Dichlorotetrafluoroethane	1.554	85	14368	1.054	ppbv	93
9) Propene	1.486	41	6386m	0.982	ppbv	
10) Heptane	4.981	43	18122	1.000	ppbv	96
11) Trichlorofluoromethane	1.877	101	17489	1.051	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	13205	1.014	ppbv	93
13) Ethanol	1.722	45	1397	1.335	ppbv	95
14) Bromoethene	1.784	108	4818	1.038	ppbv #	96
15) Acetone	1.835	43	20087	1.158	ppbv	98
16) 1,3-Butadiene	1.609	39	8053	1.084	ppbv	91
17) tert-Butyl alcohol	2.042	59	16566	1.006	ppbv	97
18) 1,1-Dichloroethene	2.036	96	5692	1.028	ppbv	88
19) Isopropyl Alcohol	1.887	45	9777	1.064	ppbv #	47
20) Methylene Chloride	2.062	84	5808	1.066	ppbv	91
21) Allyl Chloride	2.098	41	10949	0.985	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	6511m	1.022	ppbv	
23) Vinyl Acetate	2.463	43	20075	1.016	ppbv #	94
24) 1,1-Dichloroethane	2.411	63	12694	0.999	ppbv #	92
25) Ethyl Acetate	2.835	43	32671	1.021	ppbv	96
26) Hexane	2.829	57	14402	1.026	ppbv	97
27) Carbon Disulfide	2.149	76	14863	0.991	ppbv #	32
28) Methyl tert-Butyl Ether	2.441	73	8723	1.069	ppbv	91
29) Chloroform	2.848	83	24340	1.050	ppbv	95
30) Cyclohexane	3.855	84	12078	0.986	ppbv	88
31) cis-1,2-Dichloroethene	2.719	61	15120m	1.000	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	24377	0.999	ppbv	97
34) 2-Butanone	2.557	43	21976	1.027	ppbv	93
35) Carbon Tetrachloride	3.764	117	24918	0.978	ppbv	96
36) Benzene	3.654	78	30476	1.055	ppbv #	92
37) 1,2-Dichloroethane	3.217	62	19799	1.075	ppbv	99
38) Trichloroethene	4.544	130	14891m	1.059	ppbv	
39) 1,2-Dichloropropane	4.318	63	11159	1.038	ppbv	95
40) 1,4-Dioxane	4.593	88	6100m	1.231	ppbv	
41) Tetrahydrofuran	3.062	42	10967	1.003	ppbv	94
42) Bromodichloromethane	4.493	83	25547m	1.060	ppbv	
43) Methyl Methacrylate	4.887	69	12080m	1.091	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	51712m	1.086	ppbv	
45) t-1,3-Dichloropropene	6.415	75	14507	1.065	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042725.D
 Acq On : 22 Jul 2025 10:04
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:31:02 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 01:27:20 2025

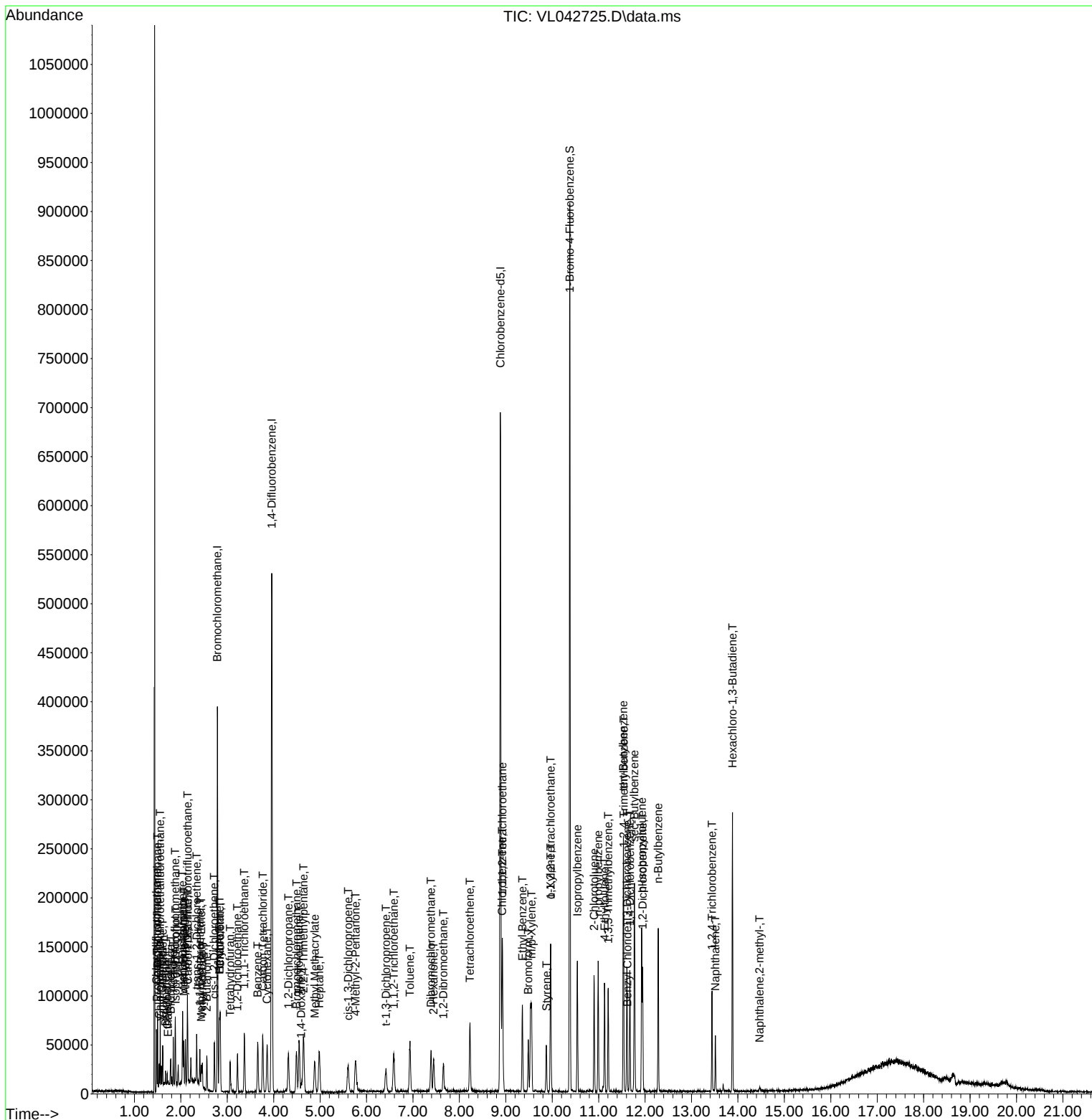
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	16434m	1.016	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	12987m	1.103	ppbv	
48) Dibromochloromethane	7.386	129	20308	1.037	ppbv	99
49) Bromoform	9.483	173	17210	1.013	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	28353m	1.007	ppbv	
51) 2-Hexanone	7.441	43	22958	1.019	ppbv #	99
52) Tetrachloroethene	8.224	164	12230	1.051	ppbv	92
53) Toluene	6.936	91	33449m	1.027	ppbv	
54) 1,2-Dibromoethane	7.655	107	18051	1.025	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	15275	1.017	ppbv	94
57) Chlorobenzene	8.920	112	28147	1.059	ppbv #	92
58) Ethyl Benzene	9.357	91	47989	1.031	ppbv	99
59) m/p-Xylene	9.551	91	76491m	2.050	ppbv	
60) o-Xylene	9.966	91	39281	1.044	ppbv	96
61) Styrene	9.878	104	16795m	1.037	ppbv	
62) Isopropylbenzene	10.542	105	58251	1.042	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	21288	0.990	ppbv	99
64) n-propylbenzene	10.989	120	14662	1.040	ppbv	100
65) tert-Butylbenzene	11.532	119	52792	1.055	ppbv	99
66) Benzyl Chloride	11.620	91	4588	0.965	ppbv #	91
67) sec-Butylbenzene	11.769	105	71871	1.046	ppbv	97
69) p-Isopropyltoluene	11.930	119	60634	1.053	ppbv	99
70) n-Butylbenzene	12.283	91	56605	1.029	ppbv	99
71) 2-Chlorotoluene	10.901	91	43753	1.032	ppbv	100
72) 4-Ethyltoluene	11.128	105	45501	1.014	ppbv	96
73) 1,3,5-Trimethylbenzene	11.205	105	37503	1.011	ppbv	91
74) 1,2,4-Trimethylbenzene	11.539	105	41241	1.013	ppbv	89
75) 1,3-Dichlorobenzene	11.610	146	28504	1.047	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	27656	1.050	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	28594	1.096	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	29228	1.151	ppbv	98
79) Naphthalene	13.513	128	24671	0.813	ppbv #	96
80) Naphthalene,2-methyl-	14.468	142	2244m	0.225	ppbv	
81) 1,2,4-Trichlorobenzene	13.439	180	16773	0.903	ppbv	98

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

Manual Integrations APPROVED

Quant Time: Jul 23 01:31:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jul 23 01:27:20 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042726.D
 Acq On : 22 Jul 2025 10:38
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Jul 23 01:31:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	102092	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	307224	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	274930	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 223485 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	7850	0.493	ppbv	94
3) Chlorodifluoromethane	1.476	51	9466	0.525	ppbv	95
4) Chloromethane	1.531	50	3533	0.541	ppbv #	87
5) Vinyl Chloride	1.580	62	2904	0.450	ppbv	98
6) Bromomethane	1.667	94	1449	0.555	ppbv	90
7) Chloroethane	1.706	64	1367	0.558	ppbv #	86
8) Dichlorotetrafluoroethane	1.554	85	7062	0.525	ppbv	99
9) Propene	1.482	41	3284	0.512	ppbv #	78
10) Heptane	4.968	43	9259m	0.518	ppbv	
11) Trichlorofluoromethane	1.877	101	8580	0.523	ppbv	89
12) 1,1,2-Trichlorotrifluo...	2.140	101	7094	0.553	ppbv	98
13) Ethanol	1.719	45	738	0.715	ppbv #	43
14) Bromoethene	1.780	108	2451	0.536	ppbv #	93
15) Acetone	1.835	43	10023	0.586	ppbv	92
16) 1,3-Butadiene	1.609	39	3860	0.527	ppbv	88
17) tert-Butyl alcohol	2.039	59	9192	0.566	ppbv #	86
18) 1,1-Dichloroethene	2.033	96	2921	0.535	ppbv	88
19) Isopropyl Alcohol	1.884	45	5028	0.555	ppbv #	44
20) Methylene Chloride	2.062	84	3449	0.642	ppbv #	88
21) Allyl Chloride	2.094	41	6018	0.549	ppbv	86
22) trans-1,2-Dichloroethene	2.343	96	3473m	0.553	ppbv	
23) Vinyl Acetate	2.460	43	10439	0.536	ppbv #	92
24) 1,1-Dichloroethane	2.408	63	6804	0.543	ppbv	96
25) Ethyl Acetate	2.835	43	15850	0.502	ppbv	96
26) Hexane	2.822	57	6804	0.492	ppbv	86
27) Carbon Disulfide	2.149	76	7702	0.521	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	4207	0.523	ppbv #	89
29) Chloroform	2.845	83	12038	0.527	ppbv #	81
30) Cyclohexane	3.855	84	6181m	0.512	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	7924	0.532	ppbv	94
32) 1,1,1-Trichloroethane	3.366	97	12154	0.505	ppbv	97
34) 2-Butanone	2.557	43	11532	0.545	ppbv	99
35) Carbon Tetrachloride	3.761	117	11388	0.452	ppbv	89
36) Benzene	3.651	78	14937	0.523	ppbv	97
37) 1,2-Dichloroethane	3.214	62	9142	0.502	ppbv #	93
38) Trichloroethene	4.551	130	7407m	0.533	ppbv	
39) 1,2-Dichloropropane	4.311	63	6104m	0.574	ppbv	
40) 1,4-Dioxane	4.599	88	2675m	0.546	ppbv	
41) Tetrahydrofuran	3.062	42	5442m	0.503	ppbv	
42) Bromodichloromethane	4.489	83	11526m	0.484	ppbv	
43) Methyl Methacrylate	4.881	69	5128m	0.468	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	23243	0.494	ppbv	93
45) t-1,3-Dichloropropene	6.405	75	6564m	0.488	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042726.D
 Acq On : 22 Jul 2025 10:38
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:31:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	7623m	0.477	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	6119m	0.526	ppbv	
48) Dibromochloromethane	7.386	129	9290	0.480	ppbv	98
49) Bromoform	9.480	173	7586	0.452	ppbv	95
50) 4-Methyl-2-Pentanone	5.765	43	13814m	0.496	ppbv	
51) 2-Hexanone	7.448	43	10224m	0.459	ppbv	
52) Tetrachloroethene	8.221	164	5979m	0.520	ppbv	
53) Toluene	6.930	91	15909	0.494	ppbv	96
54) 1,2-Dibromoethane	7.648	107	8399m	0.483	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.920	131	7996m	0.540	ppbv	
57) Chlorobenzene	8.917	112	13546m	0.517	ppbv	
58) Ethyl Benzene	9.354	91	22417	0.488	ppbv	97
59) m/p-Xylene	9.529	91	35955m	0.977	ppbv	
60) o-Xylene	9.959	91	18428	0.497	ppbv	97
61) Styrene	9.869	104	7386	0.462	ppbv	91
62) Isopropylbenzene	10.539	105	27939	0.507	ppbv	96
63) 1,1,2,2-Tetrachloroethane	9.959	83	11062	0.522	ppbv	99
64) n-propylbenzene	10.989	120	6928	0.498	ppbv	97
65) tert-Butylbenzene	11.529	119	24755	0.502	ppbv	98
66) Benzyl Chloride	11.616	91	1889m	0.403	ppbv	
67) sec-Butylbenzene	11.765	105	33880	0.500	ppbv	100
69) p-Isopropyltoluene	11.924	119	26183	0.461	ppbv	96
70) n-Butylbenzene	12.280	91	23607	0.435	ppbv	96
71) 2-Chlorotoluene	10.901	91	20494	0.490	ppbv	93
72) 4-Ethyltoluene	11.124	105	20910	0.473	ppbv	97
73) 1,3,5-Trimethylbenzene	11.202	105	16638	0.455	ppbv	95
74) 1,2,4-Trimethylbenzene	11.532	105	19202	0.478	ppbv #	93
75) 1,3-Dichlorobenzene	11.603	146	13841	0.516	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	12275	0.473	ppbv	91
77) 1,2-Dichlorobenzene	11.947	146	13083	0.508	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	13316	0.532	ppbv	95
79) Naphthalene	13.513	128	9818	0.328	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	733m	0.074	ppbv	
81) 1,2,4-Trichlorobenzene	13.435	180	5425	0.296	ppbv	89

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042728.D
 Acq On : 22 Jul 2025 11:46
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:48:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Jul 23 01:27:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	100236	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	304254	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	261203	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	210506	9.971	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	274	0.043	ppbv #	73
32) 1,1,1-Trichloroethane	3.376	97	850m	0.036	ppbv	
35) Carbon Tetrachloride	3.771	117	894m	0.036	ppbv	
38) Trichloroethene	4.545	130	419m	0.030	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	619m	0.031	ppbv	

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

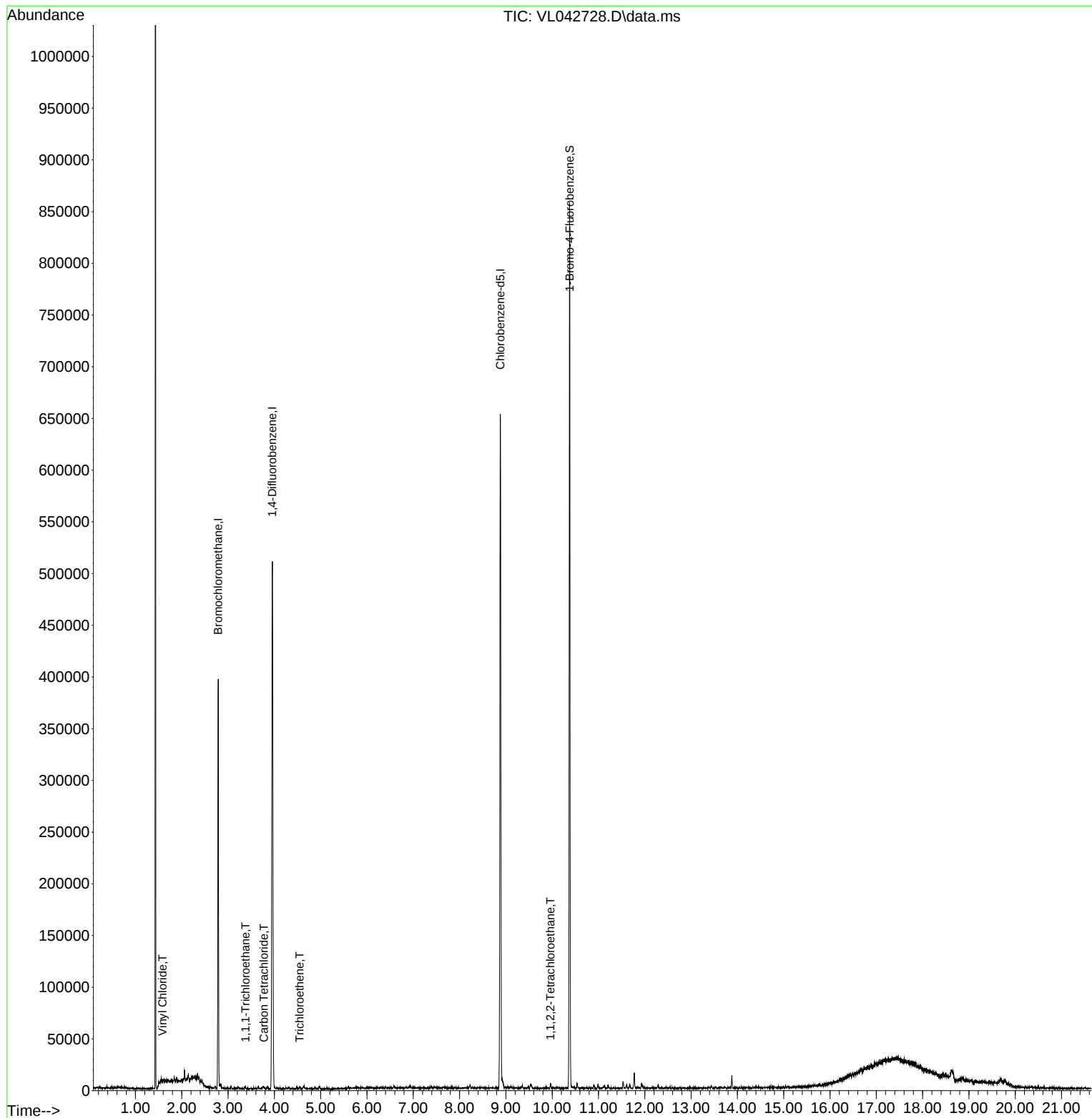
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
Data File : VL042728.D
Acq On : 22 Jul 2025 11:46
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jul 23 01:48:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jul 23 01:27:20 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
Supervised By : Mahesh Dadoda 07/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042729.D
 Acq On : 22 Jul 2025 12:21
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:33:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 22 2025

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	99043	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	297051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	269432	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 222970 10.239 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	222638	14.400	ppbv	94
3) Chlorodifluoromethane	1.476	51	242459	13.854	ppbv	100
4) Chloromethane	1.534	50	86649	13.685	ppbv	99
5) Vinyl Chloride	1.580	62	79120	12.651	ppbv	97
6) Bromomethane	1.667	94	33418	13.203	ppbv	89
7) Chloroethane	1.706	64	32400	13.625	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	182429	13.988	ppbv	99
9) Propene	1.482	41	86778	13.949	ppbv	97
10) Heptane	4.978	43	240851	13.894	ppbv	98
11) Trichlorofluoromethane	1.877	101	226391	14.228	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.140	101	175363	14.085	ppbv	99
13) Ethanol	1.722	45	9327m	9.319	ppbv	
14) Bromoethene	1.784	108	62800	14.148	ppbv	99
15) Acetone	1.835	43	189421	11.422	ppbv	97
16) 1,3-Butadiene	1.609	39	96247	13.551	ppbv	99
17) tert-Butyl alcohol	2.039	59	212776	13.513	ppbv	98
18) 1,1-Dichloroethene	2.036	96	75311	14.224	ppbv	95
19) Isopropyl Alcohol	1.884	45	117867	13.411	ppbv	100
20) Methylene Chloride	2.062	84	62676	12.023	ppbv #	92
21) Allyl Chloride	2.097	41	151161	14.219	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	85455	14.025	ppbv	94
23) Vinyl Acetate	2.460	43	275470	14.570	ppbv	99
24) 1,1-Dichloroethane	2.408	63	179068	14.742	ppbv	98
25) Ethyl Acetate	2.832	43	434297	14.192	ppbv	99
26) Hexane	2.826	57	187577	13.972	ppbv	98
27) Carbon Disulfide	2.149	76	207684	14.484	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	110848	14.204	ppbv	99
29) Chloroform	2.848	83	309996	13.984	ppbv	96
30) Cyclohexane	3.855	84	172281	14.707	ppbv	99
31) cis-1,2-Dichloroethene	2.722	61	204971	14.180	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	331907	14.219	ppbv	99
34) 2-Butanone	2.554	43	283055	13.838	ppbv	98
35) Carbon Tetrachloride	3.764	117	342291	14.064	ppbv	95
36) Benzene	3.654	78	396921	14.383	ppbv	97
37) 1,2-Dichloroethane	3.217	62	265316	15.072	ppbv	100
38) Trichloroethene	4.548	130	181288	13.493	ppbv	94
39) 1,2-Dichloropropane	4.311	63	140198	13.644	ppbv	95
40) 1,4-Dioxane	4.577	88	65044m	13.738	ppbv	
41) Tetrahydrofuran	3.052	42	150470	14.393	ppbv	98
42) Bromodichloromethane	4.489	83	349917	15.189	ppbv	100
43) Methyl Methacrylate	4.881	69	155562	14.697	ppbv	98
44) 2,2,4-Trimethylpentane	4.641	57	644648	14.163	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	200532	15.406	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042729.D
 Acq On : 22 Jul 2025 12:21
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:33:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	235485	15.233	ppbv	98
47) 1,1,2-Trichloroethane	6.583	97	158927	14.117	ppbv	94
48) Dibromochloromethane	7.389	129	289101	15.452	ppbv	99
49) Bromoform	9.483	173	254735	15.690	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	397641	14.776	ppbv	100
51) 2-Hexanone	7.435	43	330521	15.351	ppbv	98
52) Tetrachloroethene	8.228	164	155202	13.956	ppbv	98
53) Toluene	6.936	91	460726	14.807	ppbv	100
54) 1,2-Dibromoethane	7.655	107	238272	14.163	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	207220	14.275	ppbv	99
57) Chlorobenzene	8.924	112	357855	13.934	ppbv	99
58) Ethyl Benzene	9.357	91	661380	14.694	ppbv	100
59) m/p-Xylene	9.555	91	1060304m	29.396	ppbv	
60) o-Xylene	9.966	91	525682	14.460	ppbv	99
61) Styrene	9.872	104	238735	15.245	ppbv	99
62) Isopropylbenzene	10.542	105	770252	14.252	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	283603	13.644	ppbv	100
64) n-propylbenzene	10.992	120	201063	14.748	ppbv	96
65) tert-Butylbenzene	11.532	119	682674	14.116	ppbv	99
66) Benzyl Chloride	11.616	91	81061	17.637	ppbv	98
67) sec-Butylbenzene	11.769	105	960046	14.452	ppbv	100
69) p-Isopropyltoluene	11.927	119	823611	14.802	ppbv	99
70) n-Butylbenzene	12.283	91	815822	15.341	ppbv	99
71) 2-Chlorotoluene	10.901	91	598050	14.598	ppbv	99
72) 4-Ethyltoluene	11.128	105	656672	15.147	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	549188	15.316	ppbv	96
74) 1,2,4-Trimethylbenzene	11.539	105	595156	15.128	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	375000	14.254	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	373186	14.665	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	358122	14.199	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	314656	12.817	ppbv	99
79) Naphthalene	13.513	128	622427	21.221	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	328484	34.044	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	337229	18.788	ppbv	99

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

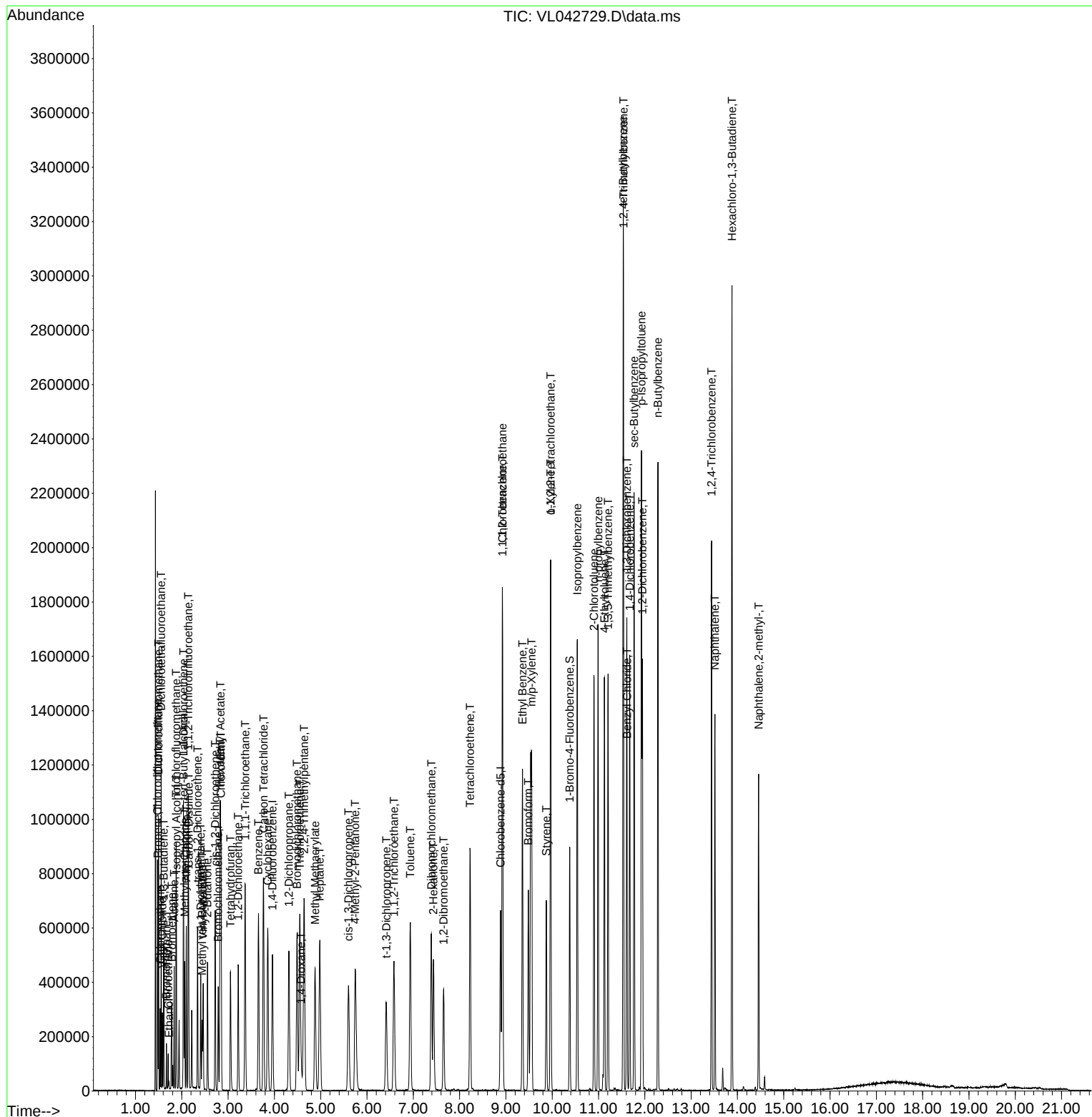
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042729.D
 Acq On : 22 Jul 2025 12:21
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:33:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Wed Jul 23 01:27:20 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042730.D
 Acq On : 22 Jul 2025 12:56
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:49:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 23 2025
 QLast Update : Wed Jul 23 01:27:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	100463	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	300245	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	262801	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	208246	9.804	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	729	0.115	ppbv #	81
32) 1,1,1-Trichloroethane	3.373	97	2129m	0.090	ppbv	
35) Carbon Tetrachloride	3.768	117	2781m	0.113	ppbv	
38) Trichloroethene	4.554	130	1510m	0.111	ppbv	
52) Tetrachloroethene	8.231	164	1225m	0.109	ppbv	
54) 1,2-Dibromoethane	7.658	107	1908m	0.112	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	2318m	0.114	ppbv	
79) Naphthalene	13.513	128	2315m	0.081	ppbv	

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

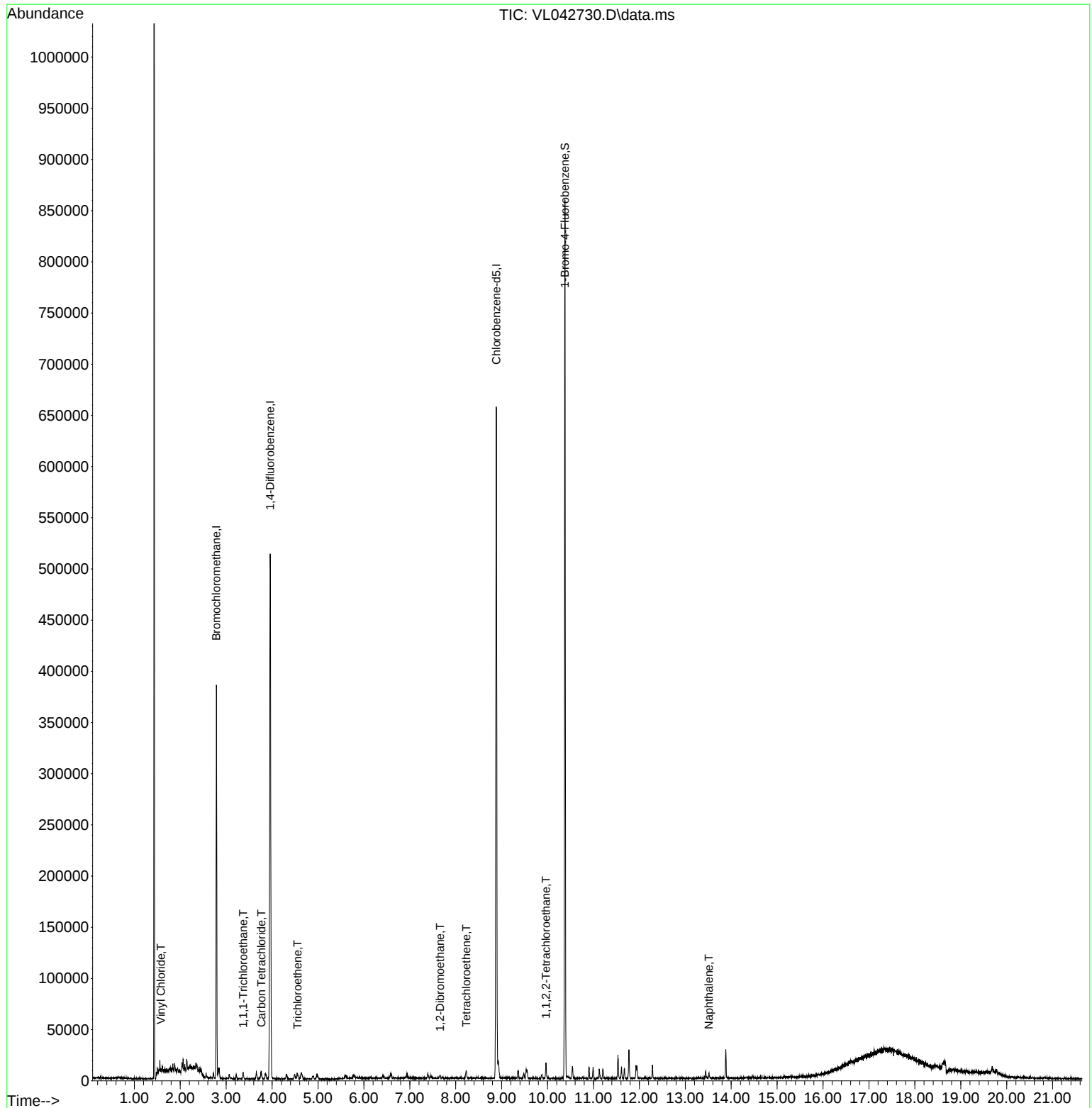
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
Data File : VL042730.D
Acq On : 22 Jul 2025 12:56
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:49:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jul 23 01:27:20 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042731.D
 Acq On : 22 Jul 2025 15:06
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072225

Quant Time: Jul 23 03:00:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 02:51:39 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	103230	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	302238	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	274367	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 234672 10.583 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	144692	8.979	ppbv	96
3) Chlorodifluoromethane	1.476	51	163537	8.972	ppbv	100
4) Chloromethane	1.531	50	59713	9.048	ppbv	99
5) Vinyl Chloride	1.580	62	52575	8.065	ppbv	95
6) Bromomethane	1.667	94	22692	8.602	ppbv	94
7) Chloroethane	1.703	64	21336	8.608	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	117893	8.673	ppbv	96
9) Propene	1.483	41	55429	8.572	ppbv	90
10) Heptane	4.978	43	161440	8.977	ppbv	98
11) Trichlorofluoromethane	1.878	101	147785	8.911	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.140	101	112524	8.671	ppbv	99
13) Ethanol	1.722	45	5706	5.245	ppbv	95
14) Bromoethene	1.781	108	40918	8.844	ppbv	97
15) Acetone	1.836	43	123985	7.173	ppbv	97
16) 1,3-Butadiene	1.609	39	63491	8.577	ppbv	99
17) tert-Butyl alcohol	2.039	59	141688	8.633	ppbv	100
18) 1,1-Dichloroethene	2.033	96	49477	8.966	ppbv	94
19) Isopropyl Alcohol	1.884	45	80872	8.828	ppbv	98
20) Methylene Chloride	2.062	84	42368	7.798	ppbv	93
21) Allyl Chloride	2.094	41	99845	9.011	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	55870	8.826	ppbv	85
23) Vinyl Acetate	2.460	43	186778	9.479	ppbv	98
24) 1,1-Dichloroethane	2.408	63	113158	8.938	ppbv	99
25) Ethyl Acetate	2.836	43	290054	9.094	ppbv	100
26) Hexane	2.826	57	126560	9.045	ppbv	98
27) Carbon Disulfide	2.149	76	133849	8.956	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	71716	8.817	ppbv	98
29) Chloroform	2.849	83	209913	9.085	ppbv	98
30) Cyclohexane	3.858	84	112878	9.245	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	137905	9.153	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	220748	9.073	ppbv	98
34) 2-Butanone	2.554	43	194585	9.349	ppbv	98
35) Carbon Tetrachloride	3.761	117	227881	9.202	ppbv	97
36) Benzene	3.655	78	267416	9.524	ppbv	98
37) 1,2-Dichloroethane	3.218	62	173758	9.701	ppbv	99
38) Trichloroethene	4.548	130	121878	8.904	ppbv	96
39) 1,2-Dichloropropane	4.312	63	95953	9.178	ppbv	99
40) 1,4-Dioxane	4.580	88	44298	8.895	ppbv #	97
41) Tetrahydrofuran	3.049	42	102809	9.797	ppbv	98
42) Bromodichloromethane	4.490	83	231463	9.879	ppbv	97
43) Methyl Methacrylate	4.878	69	104231	9.663	ppbv	98
44) 2,2,4-Trimethylpentane	4.642	57	433727	9.411	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	127678	9.641	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042731.D
 Acq On : 22 Jul 2025 15:06
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072225

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 03:00:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 02:51:39 2025

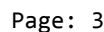
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	155049	9.842	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	104049	9.079	ppbv	89
48) Dibromochloromethane	7.386	129	186331	9.788	ppbv	98
49) Bromoform	9.484	173	163543	9.950	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	262948m	9.641	ppbv	
51) 2-Hexanone	7.432	43	213373	9.809	ppbv #	100
52) Tetrachloroethene	8.228	164	102369	9.047	ppbv	95
53) Toluene	6.933	91	303714	9.593	ppbv	98
54) 1,2-Dibromoethane	7.655	107	158768	9.309	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	136803	9.255	ppbv	99
57) Chlorobenzene	8.921	112	239120	9.150	ppbv	98
58) Ethyl Benzene	9.354	91	437222	9.539	ppbv	99
59) m/p-Xylene	9.552	91	703809m	19.196	ppbv	
60) o-Xylene	9.966	91	348762	9.421	ppbv	99
61) Styrene	9.869	104	154909	9.714	ppbv	98
62) Isopropylbenzene	10.539	105	518317	9.418	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	194906	9.208	ppbv	99
64) n-propylbenzene	10.989	120	133130	9.590	ppbv	100
65) tert-Butylbenzene	11.532	119	458035	9.301	ppbv	100
66) Benzyl Chloride	11.617	91	50184	10.713	ppbv	98
67) sec-Butylbenzene	11.769	105	633973	9.372	ppbv	99
69) p-Isopropyltoluene	11.924	119	549049	9.690	ppbv	100
70) n-Butylbenzene	12.280	91	549486	10.147	ppbv	100
71) 2-Chlorotoluene	10.901	91	395308	9.476	ppbv	99
72) 4-Ethyltoluene	11.125	105	434852	9.850	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	368192	10.084	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	400229	9.991	ppbv #	86
75) 1,3-Dichlorobenzene	11.607	146	251235	9.378	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	247720	9.559	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	238232	9.276	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	210055	8.402	ppbv	99
79) Naphthalene	13.510	128	410019	13.681	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	199543	20.233	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	222336	12.164	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Jul 23 03:00:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jul 23 02:51:39 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042731.D
 Acq On : 22 Jul 2025 15:06
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072225

Quant Time: Jul 23 03:00:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 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	100	0.00
2 T	Dichlorodifluoromethane	1.561	1.402	10.2	96	0.00
3	Chlorodifluoromethane	1.766	1.584	10.3	97	0.00
4	Chloromethane	0.639	0.578	9.5	96	0.00
5 T	Vinyl Chloride	0.631	0.509	19.3	97	0.00
6 T	Bromomethane	0.256	0.220	14.1	94	0.00
7	Chloroethane	0.240	0.207	13.8	103	0.00
8 T	Dichlorotetrafluoroethane	1.317	1.142	13.3	96	0.00
9 T	Propene	0.626	0.537	14.2	88	0.00
10 T	Heptane	1.742	1.564	10.2	94	0.00
11 T	Trichlorofluoromethane	1.607	1.432	10.9	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.257	1.090	13.3	98	0.00
13	Ethanol	0.105	0.055	47.6#	76	0.00
14 T	Bromoethene	0.448	0.396	11.6	100	0.00
15 T	Acetone	1.674	1.201	28.3	98	0.00
16 T	1,3-Butadiene	0.717	0.615	14.2	99	0.00
17	tert-Butyl alcohol	1.590	1.373	13.6	93	0.00
18 T	1,1-Dichloroethene	0.535	0.479	10.5	95	0.00
19 T	Isopropyl Alcohol	0.887	0.783	11.7	96	0.00
20 T	Methylene Chloride	0.526	0.410	22.1	97	0.00
21 T	Allyl Chloride	1.073	0.967	9.9	97	0.00
22 T	trans-1,2-Dichloroethene	0.613	0.541	11.7	99	0.00
23 T	Vinyl Acetate	1.909	1.809	5.2	101	0.00
24 T	1,1-Dichloroethane	1.226	1.096	10.6	96	0.00
25 T	Ethyl Acetate	3.090	2.810	9.1	95	0.00
26 T	Hexane	1.355	1.226	9.5	95	0.00
27 T	Carbon Disulfide	1.448	1.297	10.4	94	0.00
28 T	Methyl tert-Butyl Ether	0.788	0.695	11.8	100	0.00
29 T	Chloroform	2.238	2.033	9.2	99	0.00
30 T	Cyclohexane	1.183	1.093	7.6	95	0.00
31 T	cis-1,2-Dichloroethene	1.459	1.336	8.4	97	0.00
32 T	1,1,1-Trichloroethane	2.357	2.138	9.3	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
34 T	2-Butanone	0.689	0.644	6.5	96	0.00
35 T	Carbon Tetrachloride	0.819	0.754	7.9	98	0.00
36 T	Benzene	0.929	0.885	4.7	97	0.00
37 T	1,2-Dichloroethane	0.593	0.575	3.0	100	0.00
38 T	Trichloroethene	0.453	0.403	11.0	96	0.00
39 T	1,2-Dichloropropane	0.346	0.317	8.4	98	0.00
40 T	1,4-Dioxane	0.165	0.147	10.9	99	0.00
41 T	Tetrahydrofuran	0.347	0.340	2.0	95	0.00
42 T	Bromodichloromethane	0.775	0.766	1.2	98	0.00
43	Methyl Methacrylate	0.357	0.345	3.4	96	0.00
44 T	2,2,4-Trimethylpentane	1.525	1.435	5.9	97	0.00
45 T	t-1,3-Dichloropropene	0.438	0.422	3.7	94	0.00
46 T	cis-1,3-Dichloropropene	0.521	0.513	1.5	93	0.00
47 T	1,1,2-Trichloroethane	0.379	0.344	9.2	96	0.00
48 T	Dibromochloromethane	0.630	0.617	2.1	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042731.D
 Acq On : 22 Jul 2025 15:06
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072225

Quant Time: Jul 23 03:00:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 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	0.544	0.541	0.6	94	0.00
50 T	4-Methyl-2-Pentanone	0.902	0.870	3.5	94	0.00
51 T	2-Hexanone	0.720	0.706	1.9	93	0.00
52 T	Tetrachloroethene	0.374	0.339	9.4	94	0.00
53 T	Toluene	1.047	1.005	4.0	95	0.00
54 T	1,2-Dibromoethane	0.564	0.525	6.9	95	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
56	1,1,1,2-Tetrachloroethane	0.539	0.499	7.4	95	0.00
57 T	Chlorobenzene	0.953	0.872	8.5	97	0.00
58 T	Ethyl Benzene	1.671	1.594	4.6	96	0.00
59 T	m/p-Xylene	1.336	1.283	4.0	97	0.02
60 T	o-Xylene	1.349	1.271	5.8	95	0.00
61 T	Styrene	0.581	0.565	2.8	94	0.00
62	Isopropylbenzene	2.006	1.889	5.8	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.771	0.710	7.9	100	0.00
64	n-propylbenzene	0.506	0.485	4.2	98	0.00
65	tert-Butylbenzene	1.795	1.669	7.0	97	0.00
66 T	Benzyl Chloride	0.171	0.183	-7.0	91	0.00
67	sec-Butylbenzene	2.466	2.311	6.3	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.808	0.855	-5.8	100	0.00
69	p-Isopropyltoluene	2.065	2.001	3.1	97	0.00
70	n-Butylbenzene	1.974	2.003	-1.5	98	0.00
71	2-Chlorotoluene	1.521	1.441	5.3	96	0.00
72 T	4-Ethyltoluene	1.609	1.585	1.5	97	0.00
73 T	1,3,5-Trimethylbenzene	1.331	1.342	-0.8	96	0.00
74 T	1,2,4-Trimethylbenzene	1.460	1.459	0.1	97	0.00
75 T	1,3-Dichlorobenzene	0.976	0.916	6.1	100	0.00
76 T	1,4-Dichlorobenzene	0.945	0.903	4.4	96	0.00
77 T	1,2-Dichlorobenzene	0.936	0.868	7.3	99	0.00
78 T	Hexachloro-1,3-Butadiene	0.911	0.766	15.9	99	0.00
79 T	Naphthalene	1.092	1.494	-36.8#	99	0.00
80 T	Naphthalene,2-methyl-	0.359	0.727	-102.5#	96	0.00
81 T	1,2,4-Trichlorobenzene	0.666	0.810	-21.6	96	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042731.D
 Acq On : 22 Jul 2025 15:06
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL072225

Quant Time: Jul 23 03:00:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 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	100	0.00
2 T	Dichlorodifluoromethane	10.000	8.979	10.2	96	0.00
3	Chlorodifluoromethane	10.000	8.972	10.3	97	0.00
4	Chloromethane	10.000	9.048	9.5	96	0.00
5 T	Vinyl Chloride	10.000	8.065	19.4	97	0.00
6 T	Bromomethane	10.000	8.602	14.0	94	0.00
7	Chloroethane	10.000	8.608	13.9	103	0.00
8 T	Dichlorotetrafluoroethane	10.000	8.673	13.3	96	0.00
9 T	Propene	10.000	8.572	14.3	88	0.00
10 T	Heptane	10.000	8.977	10.2	94	0.00
11 T	Trichlorofluoromethane	10.000	8.911	10.9	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.671	13.3	98	0.00
13	Ethanol	10.000	5.245	47.5#	76	0.00
14 T	Bromoethene	10.000	8.844	11.6	100	0.00
15 T	Acetone	10.000	7.173	28.3	98	0.00
16 T	1,3-Butadiene	10.000	8.577	14.2	99	0.00
17	tert-Butyl alcohol	10.000	8.633	13.7	93	0.00
18 T	1,1-Dichloroethene	10.000	8.966	10.3	95	0.00
19 T	Isopropyl Alcohol	10.000	8.828	11.7	96	0.00
20 T	Methylene Chloride	10.000	7.798	22.0	97	0.00
21 T	Allyl Chloride	10.000	9.011	9.9	97	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.826	11.7	99	0.00
23 T	Vinyl Acetate	10.000	9.479	5.2	101	0.00
24 T	1,1-Dichloroethane	10.000	8.938	10.6	96	0.00
25 T	Ethyl Acetate	10.000	9.094	9.1	95	0.00
26 T	Hexane	10.000	9.045	9.6	95	0.00
27 T	Carbon Disulfide	10.000	8.956	10.4	94	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.817	11.8	100	0.00
29 T	Chloroform	10.000	9.085	9.1	99	0.00
30 T	Cyclohexane	10.000	9.245	7.6	95	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.153	8.5	97	0.00
32 T	1,1,1-Trichloroethane	10.000	9.073	9.3	98	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	94	0.00
34 T	2-Butanone	10.000	9.349	6.5	96	0.00
35 T	Carbon Tetrachloride	10.000	9.202	8.0	98	0.00
36 T	Benzene	10.000	9.524	4.8	97	0.00
37 T	1,2-Dichloroethane	10.000	9.701	3.0	100	0.00
38 T	Trichloroethene	10.000	8.904	11.0	96	0.00
39 T	1,2-Dichloropropane	10.000	9.178	8.2	98	0.00
40 T	1,4-Dioxane	10.000	8.895	11.1	99	0.00
41 T	Tetrahydrofuran	10.000	9.797	2.0	95	0.00
42 T	Bromodichloromethane	10.000	9.879	1.2	98	0.00
43	Methyl Methacrylate	10.000	9.663	3.4	96	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.411	5.9	97	0.00
45 T	t-1,3-Dichloropropene	10.000	9.641	3.6	94	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.842	1.6	93	0.00
47 T	1,1,2-Trichloroethane	10.000	9.079	9.2	96	0.00
48 T	Dibromochloromethane	10.000	9.788	2.1	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042731.D
 Acq On : 22 Jul 2025 15:06
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072225

Quant Time: Jul 23 03:00:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 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	9.950	0.5	94	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.641	3.6	94	0.00
51 T	2-Hexanone	10.000	9.809	1.9	93	0.00
52 T	Tetrachloroethene	10.000	9.047	9.5	94	0.00
53 T	Toluene	10.000	9.593	4.1	95	0.00
54 T	1,2-Dibromoethane	10.000	9.309	6.9	95	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	95	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.255	7.4	95	0.00
57 T	Chlorobenzene	10.000	9.150	8.5	97	0.00
58 T	Ethyl Benzene	10.000	9.539	4.6	96	0.00
59 T	m/p-Xylene	20.000	19.196	4.0	97	0.02
60 T	o-Xylene	10.000	9.421	5.8	95	0.00
61 T	Styrene	10.000	9.714	2.9	94	0.00
62	Isopropylbenzene	10.000	9.418	5.8	97	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.208	7.9	100	0.00
64	n-propylbenzene	10.000	9.590	4.1	98	0.00
65	tert-Butylbenzene	10.000	9.301	7.0	97	0.00
66 T	Benzyl Chloride	10.000	10.713	-7.1	91	0.00
67	sec-Butylbenzene	10.000	9.372	6.3	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.583	-5.8	100	0.00
69	p-Isopropyltoluene	10.000	9.690	3.1	97	0.00
70	n-Butylbenzene	10.000	10.147	-1.5	98	0.00
71	2-Chlorotoluene	10.000	9.476	5.2	96	0.00
72 T	4-Ethyltoluene	10.000	9.850	1.5	97	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.084	-0.8	96	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.991	0.1	97	0.00
75 T	1,3-Dichlorobenzene	10.000	9.378	6.2	100	0.00
76 T	1,4-Dichlorobenzene	10.000	9.559	4.4	96	0.00
77 T	1,2-Dichlorobenzene	10.000	9.276	7.2	99	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.402	16.0	99	0.00
79 T	Naphthalene	10.000	13.681	-36.8#	99	0.00
80 T	Naphthalene,2-methyl-	10.000	20.233	-102.3#	96	0.00
81 T	1,2,4-Trichlorobenzene	10.000	12.164	-21.6	96	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GFEL01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2632</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>07/22/2025</u> <u>08:55</u>
Lab File ID:	<u>VL042723.D</u>	Init. Calib. Date(s):	<u>07/22/2025</u> <u>07/22/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:55</u> <u>12:56</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.631	0.525		-16.8	
Heptane	1.742	1.649		-5.34	
1,1-Dichloroethene	0.535	0.503		-5.98	
Cyclohexane	1.183	1.149		-2.87	
cis-1,2-Dichloroethene	1.459	1.370		-6.1	
1,1,1-Trichloroethane	2.357	2.182		-7.43	
2,2,4-Trimethylpentane	1.525	1.401		-8.13	
Benzene	0.929	0.857		-7.75	
Trichloroethene	0.453	0.397		-12.36	
Toluene	1.047	1.001		-4.39	
Tetrachloroethene	0.374	0.342		-8.56	
Ethyl Benzene	1.671	1.593		-4.67	
m/p-Xylene	1.336	1.266		-5.24	
o-Xylene	1.349	1.272		-5.71	
1,3,5-Trimethylbenzene	1.331	1.332		0.08	
1,2,4-Trimethylbenzene	1.460	1.433		-1.85	
Naphthalene	1.092	1.448		32.6	
1-Bromo-4-Fluorobenzene	0.808	0.813		0.62	
Hexane	1.355	1.292		-4.65	

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\VL072225\
 Data File : VL042723.D
 Acq On : 22 Jul 2025 08:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:29:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 22 2025

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	103624	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	320455	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	287373	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 233616 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	150708	9.316	ppbv	100
3) Chlorodifluoromethane	1.476	51	168230	9.188	ppbv	100
4) Chloromethane	1.531	50	62368	9.415	ppbv	100
5) Vinyl Chloride	1.580	62	54376	8.310	ppbv	100
6) Bromomethane	1.667	94	24061	9.086	ppbv	100
7) Chloroethane	1.703	64	20641	8.296	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	122544	8.981	ppbv	100
9) Propene	1.483	41	62955	9.672	ppbv	100
10) Heptane	4.978	43	170864	9.421	ppbv	100
11) Trichlorofluoromethane	1.877	101	147017	8.831	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	115056	8.833	ppbv	100
13) Ethanol	1.719	45	7545m	7.206	ppbv	
14) Bromoethene	1.780	108	41089	8.847	ppbv	100
15) Acetone	1.835	43	126212	7.274	ppbv	100
16) 1,3-Butadiene	1.609	39	63985	8.611	ppbv	100
17) tert-Butyl alcohol	2.039	59	151668	9.206	ppbv	100
18) 1,1-Dichloroethene	2.033	96	52093	9.404	ppbv	100
19) Isopropyl Alcohol	1.884	45	84334	9.171	ppbv	100
20) Methylene Chloride	2.059	84	43816	8.033	ppbv	100
21) Allyl Chloride	2.094	41	102783	9.241	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	56551	8.871	ppbv	100
23) Vinyl Acetate	2.460	43	184024	9.303	ppbv	100
24) 1,1-Dichloroethane	2.408	63	118220	9.302	ppbv	100
25) Ethyl Acetate	2.832	43	303752	9.487	ppbv	100
26) Hexane	2.826	57	133894	9.532	ppbv	100
27) Carbon Disulfide	2.149	76	142744	9.515	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	71602	8.769	ppbv	100
29) Chloroform	2.848	83	211013	9.098	ppbv	100
30) Cyclohexane	3.855	84	119069	9.715	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	141958	9.386	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	226089	9.258	ppbv	100
34) 2-Butanone	2.554	43	201816	9.146	ppbv	100
35) Carbon Tetrachloride	3.764	117	232054	8.838	ppbv	100
36) Benzene	3.654	78	274769	9.229	ppbv	100
37) 1,2-Dichloroethane	3.217	62	173509	9.137	ppbv	100
38) Trichloroethene	4.548	130	127306	8.783	ppbv	100
39) 1,2-Dichloropropane	4.311	63	98188	8.858	ppbv	100
40) 1,4-Dioxane	4.580	88	44753	8.762	ppbv #	96
41) Tetrahydrofuran	3.052	42	107955	9.572	ppbv	100
42) Bromodichloromethane	4.486	83	235255	9.466	ppbv	100
43) Methyl Methacrylate	4.878	69	108863	9.534	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	449058	9.145	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	135146	9.625	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042723.D
 Acq On : 22 Jul 2025 08:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:29:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	167051	10.017	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	108420	8.927	ppbv	100
48) Dibromochloromethane	7.386	129	199262	9.872	ppbv	100
49) Bromoform	9.484	173	173745	9.920	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	280957	9.677	ppbv	100
51) 2-Hexanone	7.432	43	228706	9.846	ppbv	100
52) Tetrachloroethene	8.221	164	109482	9.126	ppbv	100
53) Toluene	6.933	91	320906	9.560	ppbv	100
54) 1,2-Dibromoethane	7.652	107	166533	9.176	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	143657	9.279	ppbv	99
57) Chlorobenzene	8.920	112	247623	9.040	ppbv	100
58) Ethyl Benzene	9.354	91	457732	9.535	ppbv	100
59) m/p-Xylene	9.532	91	727630m	18.913	ppbv	
60) o-Xylene	9.966	91	365462	9.425	ppbv	100
61) Styrene	9.869	104	164780	9.866	ppbv	100
62) Isopropylbenzene	10.539	105	533747	9.259	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	194147	8.757	ppbv	100
64) n-propylbenzene	10.989	120	135616	9.327	ppbv	100
65) tert-Butylbenzene	11.529	119	474362	9.196	ppbv	100
66) Benzyl Chloride	11.613	91	55364	11.294	ppbv	100
67) sec-Butylbenzene	11.769	105	653393	9.222	ppbv	100
69) p-Isopropyltoluene	11.924	119	568746	9.583	ppbv	100
70) n-Butylbenzene	12.280	91	563329	9.932	ppbv	100
71) 2-Chlorotoluene	10.901	91	410769	9.401	ppbv	100
72) 4-Ethyltoluene	11.125	105	447687	9.682	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	382699	10.007	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	411894	9.816	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	251931	8.978	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	257811	9.498	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	240874	8.954	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	212439	8.113	ppbv	100
79) Naphthalene	13.513	128	416154	13.303	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	208162	20.227	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	230529	12.042	ppbv	100

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



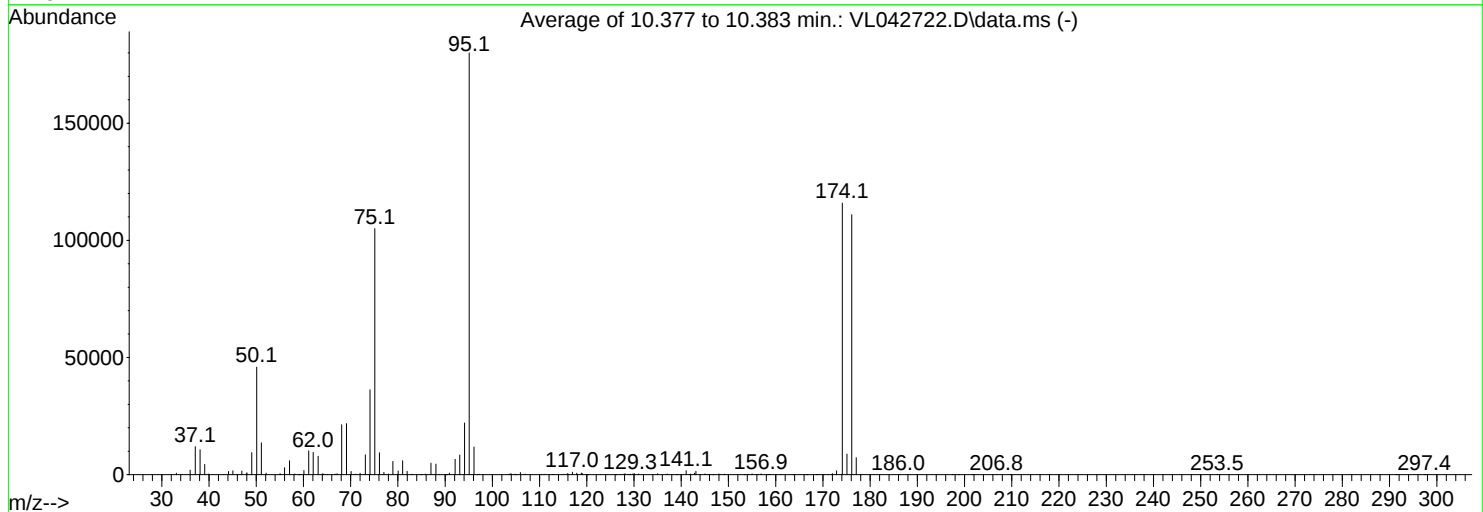
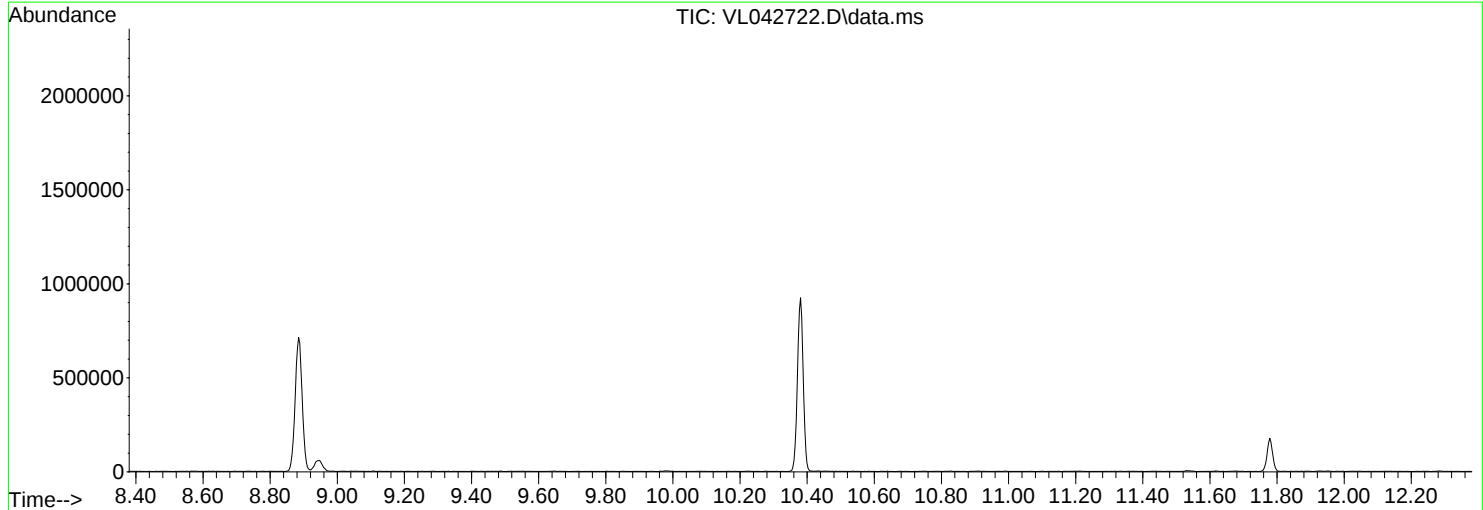
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
Data File : VL042722.D
Acq On : 22 Jul 2025 07:25
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\VL072225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Jul 23 02:51:39 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.5	45933	PASS
75	95	30	66	58.4	105067	PASS
95	95	100	100	100.0	180032	PASS
96	95	5	9	6.6	11816	PASS
173	174	0.00	2	1.4	1639	PASS
174	95	50	120	64.4	115904	PASS
175	174	4	9	7.6	8840	PASS
176	174	93	101	95.8	110997	PASS
177	176	5	9	6.5	7213	PASS

Average of 10.377 to 10.383 min.: VL042722.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	604	47.90	426	59.00	32	68.10	2132
36.00	1908	48.05	811	60.10	1765	69.10	2180
37.10	11937	49.05	9429	61.10	10145	70.10	134
38.10	10695	50.10	45933	62.05	9530	71.00	18
39.10	4357	51.10	13610	63.10	7833	72.00	616
39.95	304	52.10	679	64.00	387	73.10	8508
43.10	97	55.00	334	64.20	261	74.10	36224
44.15	1339	55.20	253	64.60	77	75.10	105067
45.05	1666	56.00	2967	65.15	163	76.10	9387
46.00	103	57.05	5960	66.80	211	77.05	977
46.95	1544	58.20	257	67.10	428	78.00	271

Average of 10.377 to 10.383 min.: VL042722.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.95	5672	90.30	21	103.95	467	115.05	151
80.05	1551	90.90	675	104.75	200	115.85	515
81.00	5916	92.10	6588	105.00	30	116.10	204
81.95	1461	93.10	8429	105.95	883	116.95	1095
82.90	52	94.10	22037	107.00	235	117.85	651
83.15	162	95.10	180032	109.95	121	118.10	162
84.90	20	96.10	11816	110.40	85	118.85	658
85.80	182	96.90	134	110.95	177	119.05	474
87.00	4958	97.20	174	112.00	48	120.20	19
88.05	4491	103.30	43	112.80	50	122.00	43
88.80	42	103.70	246	113.05	74	122.90	93

Average of 10.377 to 10.383 min.: VL042722.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.00	98	135.00	428	145.05	338	155.00	357
126.10	21	136.80	71	145.75	103	155.90	60
127.10	91	137.05	256	146.10	150	156.35	106
127.90	256	139.00	20	146.70	19	156.90	361
128.10	444	140.10	95	147.95	289	158.00	39
128.80	172	141.05	1695	148.20	185	158.50	45
129.00	99	141.80	64	148.90	77	158.70	53
129.25	218	142.00	206	149.20	192	159.00	55
129.80	387	142.80	646	150.05	146	161.10	64
130.10	405	143.10	1463	153.30	23	161.30	45
131.00	301	144.00	149	154.25	104	163.70	17

Average of 10.377 to 10.383 min.: VL042722.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
166.10	42	175.10	8840	253.50	62		
166.60	18	176.10	110997	291.40	17		
168.60	17	177.05	7213	297.40	19		
169.35	49	177.90	138				
170.00	76	178.10	149				
170.40	86	186.00	28				
171.20	62	197.40	17				
171.80	131	198.70	18				
172.05	403	201.70	35				
172.90	1639	206.80	98				
174.10	115904	209.60	20				

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	64 2nd St., Brooklyn, NY	Date Received:	
Client Sample ID:	VL0722ABL01	SDG No.:	Q2632
Lab Sample ID:	VL0722ABL01	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
VL042732.D	1		07/22/25 15:41	VL072225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	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	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.080	0.26	U	0.26	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	99900		2.79			
540-36-3	1,4-Difluorobenzene	300000		3.962			
3114-55-4	Chlorobenzene-d5	270000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042732.D
 Acq On : 22 Jul 2025 15:41
 Operator : SY/MD
 Sample : VL0722ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0722ABL01

Quant Time: Jul 23 03:02:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	99924	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	300308	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	270398	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	221143	10.119	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

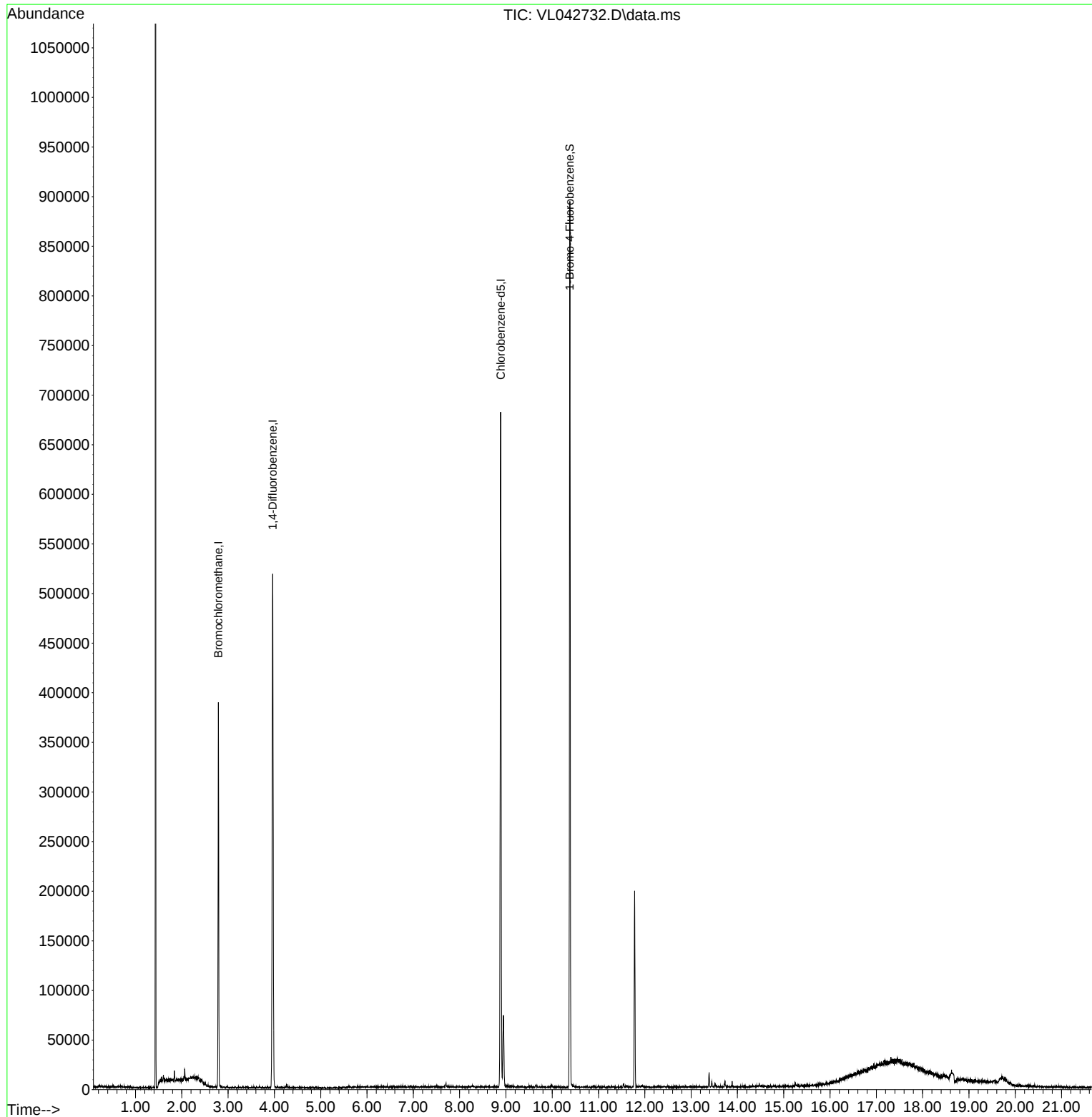
Target Compounds	Qvalue

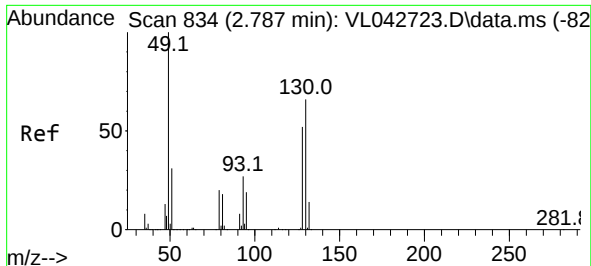
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
Data File : VL042732.D
Acq On : 22 Jul 2025 15:41
Operator : SY/MD
Sample : VL0722ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0722ABL01

Quant Time: Jul 23 03:02:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Jul 23 02:51:39 2025
Response via : Initial Calibration

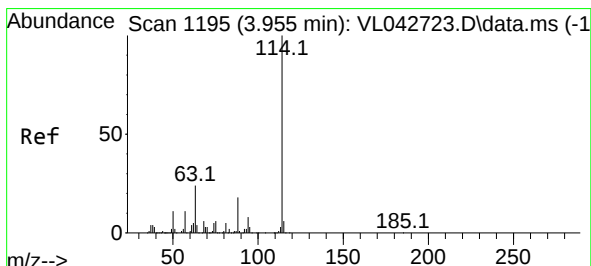
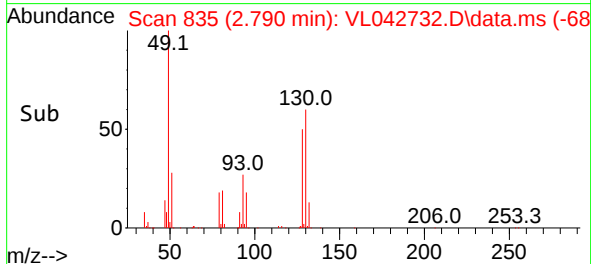
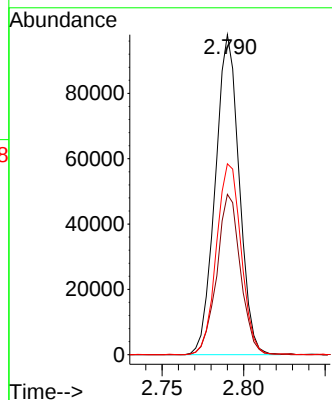
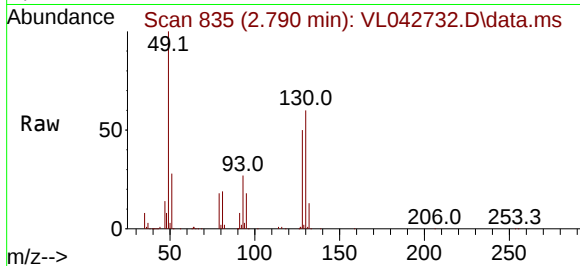




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

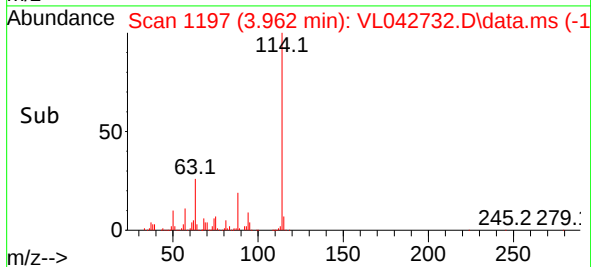
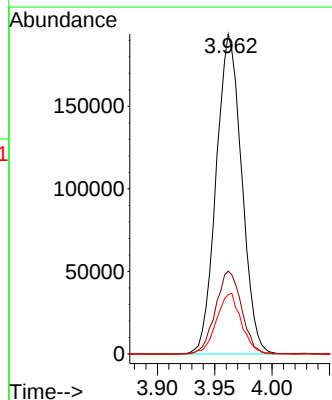
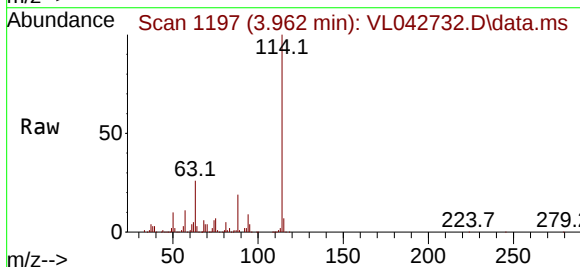
Instrument :
MSVOA_L
ClientSampleId :
VL0722ABL01

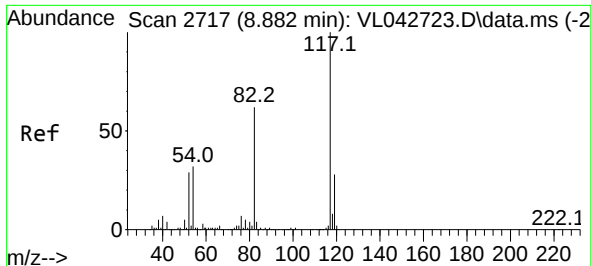
Tgt Ion: 49 Resp: 99924
Ion Ratio Lower Upper
49 100
128 49.6 24.5 73.5
130 61.8 31.7 95.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

Tgt Ion: 114 Resp: 300308
Ion Ratio Lower Upper
114 100
63 26.4 20.4 30.6
88 18.5 14.5 21.7

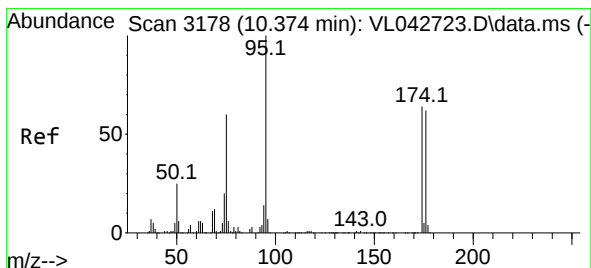
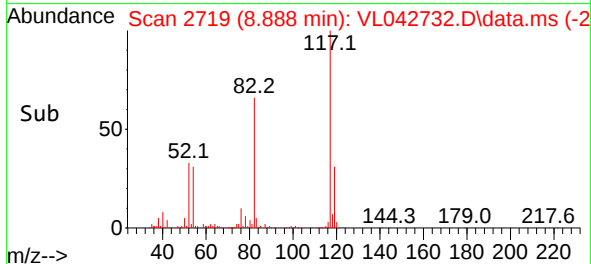
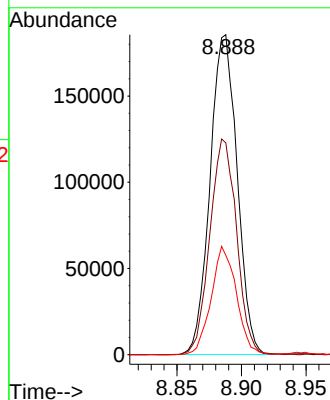
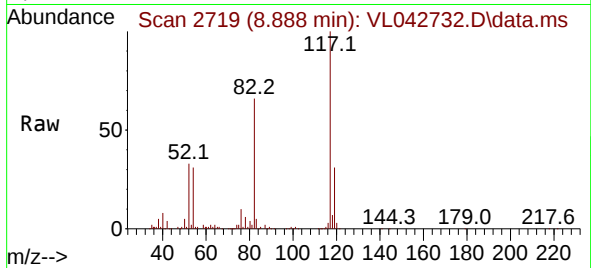




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

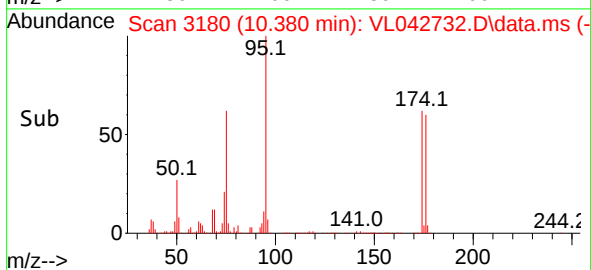
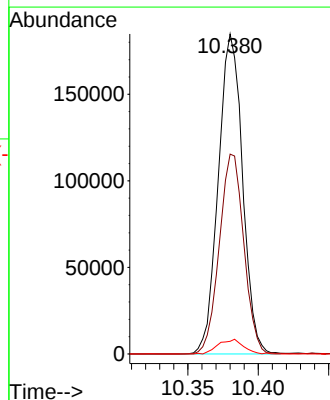
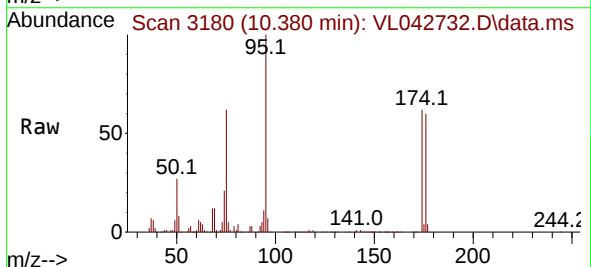
Instrument :
MSVOA_L
ClientSampleId :
VL0722ABL01

Tgt Ion:117 Resp: 270398
Ion Ratio Lower Upper
117 100
82 66.9 54.6 81.8
119 31.6 25.3 37.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.119 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.006 min
Lab File: VL042732.D
Acq: 22 Jul 2025 15:41

Tgt Ion: 95 Resp: 221143
Ion Ratio Lower Upper
95 100
174 63.5 51.4 77.2
175 4.8 4.2 6.4



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	64 2nd St., Brooklyn, NY	Date Received:	
Client Sample ID:	VL0722ABS01	SDG No.:	Q2632
Lab Sample ID:	VL0722ABS01	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
VL042733.D	1		07/22/25 16:32	VL072225

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	8.20	21.0		0.080	0.080	ug/m3
142-82-5	Heptane	9.20	37.7		0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.30	36.9		0.59	1.98	ug/m3
110-82-7	Cyclohexane	9.50	32.7		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.40	37.3		0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	9.50	51.8		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.60	44.8		0.65	2.34	ug/m3
71-43-2	Benzene	9.50	30.4		0.26	1.60	ug/m3
79-01-6	Trichloroethene	9.20	49.4		0.11	0.16	ug/m3
108-88-3	Toluene	9.80	36.9		0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	9.20	62.4		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	9.60	41.7		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	19.5	84.7		1.78	4.34	ug/m3
95-47-6	o-Xylene	9.70	42.1		0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.2	50.1		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.1	49.6		0.88	2.46	ug/m3
91-20-3	Naphthalene	13.6	71.3		0.050	0.52	ug/m3
110-54-3	Hexane	9.50	33.5		0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	97800		2.79			
540-36-3	1,4-Difluorobenzene	291000		3.962			
3114-55-4	Chlorobenzene-d5	268000		8.885			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042733.D
 Acq On : 22 Jul 2025 16:32
 Operator : SY/MD
 Sample : VL0722ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0722ABS01

Quant Time: Jul 23 03:02:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 02:51:39 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	97823	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	290819	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	268264	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 225022 10.378 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	143536	9.399	ppbv	96
3) Chlorodifluoromethane	1.476	51	162590	9.414	ppbv	100
4) Chloromethane	1.534	50	59683	9.544	ppbv	98
5) Vinyl Chloride	1.583	62	50815	8.226	ppbv	96
6) Bromomethane	1.670	94	21272	8.509	ppbv	92
7) Chloroethane	1.706	64	20227	8.612	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	115022	8.930	ppbv	99
9) Propene	1.486	41	55388	9.039	ppbv	96
10) Heptane	4.981	43	157605	9.248	ppbv	98
11) Trichlorofluoromethane	1.877	101	143830	9.152	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	112187	9.123	ppbv	99
13) Ethanol	1.722	45	5737	5.565	ppbv	91
14) Bromoethene	1.784	108	39398	8.986	ppbv	100
15) Acetone	1.835	43	122258	7.464	ppbv	97
16) 1,3-Butadiene	1.612	39	60681	8.650	ppbv	99
17) tert-Butyl alcohol	2.043	59	137907	8.867	ppbv	98
18) 1,1-Dichloroethene	2.036	96	48434	9.262	ppbv	93
19) Isopropyl Alcohol	1.887	45	78421	9.034	ppbv	98
20) Methylene Chloride	2.062	84	42708	8.295	ppbv	92
21) Allyl Chloride	2.098	41	96083	9.151	ppbv	96
22) trans-1,2-Dichloroethene	2.344	96	54842	9.142	ppbv	87
23) Vinyl Acetate	2.463	43	178206	9.543	ppbv	98
24) 1,1-Dichloroethane	2.412	63	111347	9.281	ppbv	99
25) Ethyl Acetate	2.836	43	290508	9.611	ppbv	99
26) Hexane	2.829	57	126516	9.541	ppbv	99
27) Carbon Disulfide	2.153	76	133103	9.398	ppbv #	86
28) Methyl tert-Butyl Ether	2.441	73	82264	10.672	ppbv	95
29) Chloroform	2.852	83	208004	9.500	ppbv	99
30) Cyclohexane	3.858	84	109684	9.480	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	134759	9.439	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	219257	9.510	ppbv	99
34) 2-Butanone	2.557	43	192160	9.596	ppbv	99
35) Carbon Tetrachloride	3.764	117	224904	9.439	ppbv	94
36) Benzene	3.658	78	257369	9.526	ppbv	96
37) 1,2-Dichloroethane	3.221	62	172489	10.009	ppbv	99
38) Trichloroethene	4.551	130	120693	9.163	ppbv	94
39) 1,2-Dichloropropane	4.318	63	94386	9.382	ppbv	96
40) 1,4-Dioxane	4.583	88	43593	9.098	ppbv #	96
41) Tetrahydrofuran	3.056	42	100664	9.970	ppbv	98
42) Bromodichloromethane	4.493	83	228958	10.156	ppbv	100
43) Methyl Methacrylate	4.881	69	103186	9.942	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	427143	9.632	ppbv	98
45) t-1,3-Dichloropropene	6.422	75	125243	9.828	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042733.D
 Acq On : 22 Jul 2025 16:32
 Operator : SY/MD
 Sample : VL0722ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0722ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 03:02:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 02:51:39 2025

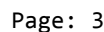
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	152104	10.034	ppbv	98
47) 1,1,2-Trichloroethane	6.584	97	102620	9.306	ppbv	95
48) Dibromochloromethane	7.393	129	185773	10.142	ppbv	99
49) Bromoform	9.490	173	166279	10.514	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	257624	9.816	ppbv	99
51) 2-Hexanone	7.438	43	210937	10.078	ppbv	99
52) Tetrachloroethene	8.231	164	100199	9.203	ppbv	99
53) Toluene	6.940	91	299782	9.841	ppbv	100
54) 1,2-Dibromoethane	7.658	107	153862	9.376	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.930	131	139123	9.626	ppbv	98
57) Chlorobenzene	8.924	112	237132	9.280	ppbv	97
58) Ethyl Benzene	9.357	91	430280	9.601	ppbv	100
59) m/p-Xylene	9.555	91	698653m	19.489	ppbv	
60) o-Xylene	9.969	91	349644	9.660	ppbv	100
61) Styrene	9.875	104	155696	9.986	ppbv	99
62) Isopropylbenzene	10.542	105	506806	9.418	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	188186	9.093	ppbv	99
64) n-propylbenzene	10.992	120	129876	9.568	ppbv	99
65) tert-Butylbenzene	11.536	119	454274	9.434	ppbv	100
66) Benzyl Chloride	11.620	91	49022	10.703	ppbv	97
67) sec-Butylbenzene	11.769	105	639426	9.667	ppbv	100
69) p-Isopropyltoluene	11.927	119	544843	9.835	ppbv	100
70) n-Butylbenzene	12.283	91	548863	10.366	ppbv	99
71) 2-Chlorotoluene	10.904	91	390805	9.581	ppbv	99
72) 4-Ethyltoluene	11.128	105	435847	10.097	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	364240	10.202	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	394467	10.071	ppbv	99
75) 1,3-Dichlorobenzene	11.610	146	247613	9.453	ppbv	97
76) 1,4-Dichlorobenzene	11.675	146	250979	9.905	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	238567	9.500	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	203981	8.345	ppbv	99
79) Naphthalene	13.516	128	397198	13.555	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	195754	20.301	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	219493	12.282	ppbv	100

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

Manual Integrations

Quant Time: Jul 23 03:02:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jul 23 02:51:39 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VL072225	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042723.D	Ethanol	SAM	7/23/2025 7:43:18 AM	MMDadoda	7/23/2025 8:18:43 AM	Peak Integrated by Software
VSTDICCC010	VL042723.D	m/p-Xylene	SAM	7/23/2025 7:43:18 AM	MMDadoda	7/23/2025 8:18:43 AM	Peak Integrated by Software
VSTDICC002	VL042724.D	1,4-Dioxane	SAM	7/23/2025 7:43:24 AM	MMDadoda	7/23/2025 8:18:48 AM	Peak Integrated by Software
VSTDICC002	VL042724.D	2,2,4-Trimethylpentane	SAM	7/23/2025 7:43:24 AM	MMDadoda	7/23/2025 8:18:48 AM	Peak Integrated by Software
VSTDICC002	VL042724.D	cis-1,3-Dichloropropene	SAM	7/23/2025 7:43:24 AM	MMDadoda	7/23/2025 8:18:48 AM	Peak Integrated by Software
VSTDICC002	VL042724.D	m/p-Xylene	SAM	7/23/2025 7:43:24 AM	MMDadoda	7/23/2025 8:18:48 AM	Peak Integrated by Software
VSTDICC002	VL042724.D	t-1,3-Dichloropropene	SAM	7/23/2025 7:43:24 AM	MMDadoda	7/23/2025 8:18:48 AM	Peak Integrated by Software
VSTDICC002	VL042724.D	Trichloroethene	SAM	7/23/2025 7:43:24 AM	MMDadoda	7/23/2025 8:18:48 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	1,1,2-Trichloroethane	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	1,4-Dioxane	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	2,2,4-Trimethylpentane	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	4-Methyl-2-Pentanone	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	Bromodichloromethane	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072225	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042725.D	cis-1,2-Dichloroethene	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	cis-1,3-Dichloropropene	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	m/p-Xylene	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	Methyl Methacrylate	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	Naphthalene,2-methyl-	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	Propene	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	Styrene	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	Toluene	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	trans-1,2-Dichloroethene	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC001	VL042725.D	Trichloroethene	SAM	7/23/2025 7:44:09 AM	MMDadoda	7/23/2025 8:18:52 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	1,1,1,2-Tetrachloroethane	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	1,1,2-Trichloroethane	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	1,2-Dibromoethane	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072225	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042726.D	1,2-Dichloropropane	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	1,4-Dioxane	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	2-Hexanone	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	4-Methyl-2-Pentanone	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	Benzyl Chloride	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	Bromodichloromethane	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	Chlorobenzene	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	cis-1,3-Dichloropropene	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	Cyclohexane	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	Heptane	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	m/p-Xylene	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	Methyl Methacrylate	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	Naphthalene,2-methyl-	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072225	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042726.D	t-1,3-Dichloropropene	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	Tetrachloroethene	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	Tetrahydrofuran	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	trans-1,2-Dichloroethene	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.5	VL042726.D	Trichloroethene	SAM	7/23/2025 7:43:29 AM	MMDadoda	7/23/2025 8:18:55 AM	Peak Integrated by Software
VSTDICC0.03	VL042728.D	1,1,1-Trichloroethane	SAM	7/23/2025 7:44:02 AM	MMDadoda	7/23/2025 8:19:05 AM	Peak Integrated by Software
VSTDICC0.03	VL042728.D	1,1,2,2-Tetrachloroethane	SAM	7/23/2025 7:44:02 AM	MMDadoda	7/23/2025 8:19:05 AM	Peak Integrated by Software
VSTDICC0.03	VL042728.D	Carbon Tetrachloride	SAM	7/23/2025 7:44:02 AM	MMDadoda	7/23/2025 8:19:05 AM	Peak Integrated by Software
VSTDICC0.03	VL042728.D	Tetrachloroethene	SAM	7/23/2025 7:44:02 AM	MMDadoda	7/23/2025 8:19:05 AM	Peak Integrated by Software
VSTDICC0.03	VL042728.D	Trichloroethene	SAM	7/23/2025 7:44:02 AM	MMDadoda	7/23/2025 8:19:05 AM	Peak Integrated by Software
VSTDICC015	VL042729.D	1,4-Dioxane	SAM	7/23/2025 7:45:12 AM	MMDadoda	7/23/2025 8:19:21 AM	Peak Integrated by Software
VSTDICC015	VL042729.D	Ethanol	SAM	7/23/2025 7:45:12 AM	MMDadoda	7/23/2025 8:19:21 AM	Peak Integrated by Software
VSTDICC015	VL042729.D	m/p-Xylene	SAM	7/23/2025 7:45:12 AM	MMDadoda	7/23/2025 8:19:21 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072225	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC0.1	VL042730.D	1,1,1-Trichloroethane	SAM	7/23/2025 7:43:57 AM	MMDadoda	7/23/2025 8:19:23 AM	Peak Integrated by Software
VSTDIC0.1	VL042730.D	1,1,2,2-Tetrachloroethane	SAM	7/23/2025 7:43:57 AM	MMDadoda	7/23/2025 8:19:23 AM	Peak Integrated by Software
VSTDIC0.1	VL042730.D	1,2-Dibromoethane	SAM	7/23/2025 7:43:57 AM	MMDadoda	7/23/2025 8:19:23 AM	Peak Integrated by Software
VSTDIC0.1	VL042730.D	Carbon Tetrachloride	SAM	7/23/2025 7:43:57 AM	MMDadoda	7/23/2025 8:19:23 AM	Peak Integrated by Software
VSTDIC0.1	VL042730.D	Naphthalene	SAM	7/23/2025 7:43:57 AM	MMDadoda	7/23/2025 8:19:23 AM	Peak Integrated by Software
VSTDIC0.1	VL042730.D	Tetrachloroethene	SAM	7/23/2025 7:43:57 AM	MMDadoda	7/23/2025 8:19:23 AM	Peak Integrated by Software
VSTDIC0.1	VL042730.D	Trichloroethene	SAM	7/23/2025 7:43:57 AM	MMDadoda	7/23/2025 8:19:23 AM	Peak Integrated by Software
VSTDICV010	VL042731.D	4-Methyl-2-Pentanone	SAM	7/23/2025 7:45:17 AM	MMDadoda	7/23/2025 8:19:26 AM	Peak Integrated by Software
VSTDICV010	VL042731.D	m/p-Xylene	SAM	7/23/2025 7:45:17 AM	MMDadoda	7/23/2025 8:19:26 AM	Peak Integrated by Software
VL0722ABS01	VL042733.D	m/p-Xylene	SAM	7/23/2025 7:43:52 AM	MMDadoda	7/23/2025 8:19:33 AM	Peak Integrated by Software
Q2632-01	VL042740.D	2,2,4-Trimethylpentane	SAM	7/23/2025 7:46:04 AM	MMDadoda	7/23/2025 8:19:50 AM	Peak Integrated by Software
Q2632-01	VL042740.D	2-Hexanone	SAM	7/23/2025 7:46:04 AM	MMDadoda	7/23/2025 8:19:50 AM	Peak Integrated by Software
Q2632-01	VL042740.D	Carbon Tetrachloride	SAM	7/23/2025 7:46:04 AM	MMDadoda	7/23/2025 8:19:50 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072225	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2632-01	VL042740.D	Chlorodifluoromethane	SAM	7/23/2025 7:46:04 AM	MMDadoda	7/23/2025 8:19:50 AM	Peak Integrated by Software
Q2632-01	VL042740.D	Propene	SAM	7/23/2025 7:46:04 AM	MMDadoda	7/23/2025 8:19:50 AM	Peak Integrated by Software
Q2632-01	VL042740.D	Tetrachloroethene	SAM	7/23/2025 7:46:04 AM	MMDadoda	7/23/2025 8:19:50 AM	Peak Integrated by Software
Q2632-01DUP	VL042741.D	2,2,4-Trimethylpentane	SAM	7/23/2025 7:45:36 AM	MMDadoda	7/23/2025 8:20:42 AM	Peak Integrated by Software
Q2632-01DUP	VL042741.D	2-Hexanone	SAM	7/23/2025 7:45:36 AM	MMDadoda	7/23/2025 8:20:42 AM	Peak Integrated by Software
Q2632-01DUP	VL042741.D	4-Methyl-2-Pentanone	SAM	7/23/2025 7:45:36 AM	MMDadoda	7/23/2025 8:20:42 AM	Peak Integrated by Software
Q2632-01DUP	VL042741.D	Carbon Tetrachloride	SAM	7/23/2025 7:45:36 AM	MMDadoda	7/23/2025 8:20:42 AM	Peak Integrated by Software
Q2632-01DUP	VL042741.D	Chlorodifluoromethane	SAM	7/23/2025 7:45:36 AM	MMDadoda	7/23/2025 8:20:42 AM	Peak Integrated by Software
Q2632-01DUP	VL042741.D	Heptane	SAM	7/23/2025 7:45:36 AM	MMDadoda	7/23/2025 8:20:42 AM	Peak Integrated by Software
Q2632-01DUP	VL042741.D	n-Butylbenzene	SAM	7/23/2025 7:45:36 AM	MMDadoda	7/23/2025 8:20:42 AM	Peak Integrated by Software
Q2632-01DUP	VL042741.D	Propene	SAM	7/23/2025 7:45:36 AM	MMDadoda	7/23/2025 8:20:42 AM	Peak Integrated by Software
Q2632-01DUP	VL042741.D	Styrene	SAM	7/23/2025 7:45:36 AM	MMDadoda	7/23/2025 8:20:42 AM	Peak Integrated by Software
Q2632-01DUP	VL042741.D	Tetrachloroethene	SAM	7/23/2025 7:45:36 AM	MMDadoda	7/23/2025 8:20:42 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072225	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2632-01DL	VL042742.D	1,2-Dichloroethane	SAM	7/23/2025 7:44:30 AM	MMDadoda	7/23/2025 8:19:52 AM	Peak Integrated by Software
Q2632-01DL	VL042742.D	4-Methyl-2-Pentanone	SAM	7/23/2025 7:44:30 AM	MMDadoda	7/23/2025 8:19:52 AM	Peak Integrated by Software
Q2632-01DL	VL042742.D	Ethyl Benzene	SAM	7/23/2025 7:44:30 AM	MMDadoda	7/23/2025 8:19:52 AM	Peak Integrated by Software
Q2632-01DL	VL042742.D	Hexane	SAM	7/23/2025 7:44:30 AM	MMDadoda	7/23/2025 8:19:52 AM	Peak Integrated by Software
Q2632-01DL	VL042742.D	m/p-Xylene	SAM	7/23/2025 7:44:30 AM	MMDadoda	7/23/2025 8:19:52 AM	Peak Integrated by Software
Q2632-01DL	VL042742.D	Styrene	SAM	7/23/2025 7:44:30 AM	MMDadoda	7/23/2025 8:19:52 AM	Peak Integrated by Software
Q2632-01DL	VL042742.D	Tetrachloroethene	SAM	7/23/2025 7:44:30 AM	MMDadoda	7/23/2025 8:19:52 AM	Peak Integrated by Software
Q2632-02	VL042743.D	2,2,4-Trimethylpentane	SAM	7/23/2025 7:45:41 AM	MMDadoda	7/23/2025 8:19:55 AM	Peak Integrated by Software
Q2632-02	VL042743.D	Carbon Tetrachloride	SAM	7/23/2025 7:45:41 AM	MMDadoda	7/23/2025 8:19:55 AM	Peak Integrated by Software
Q2632-02	VL042743.D	Chlorodifluoromethane	SAM	7/23/2025 7:45:41 AM	MMDadoda	7/23/2025 8:19:55 AM	Peak Integrated by Software
Q2632-02	VL042743.D	Heptane	SAM	7/23/2025 7:45:41 AM	MMDadoda	7/23/2025 8:19:55 AM	Peak Integrated by Software
Q2632-02	VL042743.D	m/p-Xylene	SAM	7/23/2025 7:45:41 AM	MMDadoda	7/23/2025 8:19:55 AM	Peak Integrated by Software
Q2632-02	VL042743.D	Propene	SAM	7/23/2025 7:45:41 AM	MMDadoda	7/23/2025 8:19:55 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL072225

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QCBatch ID # VL072225

Review By	Semsettin Yesilyurt	Review On	7/23/2025 7:55:47 AM		
Supervise By	Maresh Dadoda	Supervise On	7/23/2025 8:20:51 AM		
SubDirectory	VL072225	HP Acquire Method	TO15AIR.M	HP Processing Method	VL07225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2639			
Initial Calibration Stds		AP2641,AP2642,AP2643			
CCC		AP2641			
Internal Standard/PEM		AP2639			
ICV/I.BLK		AP2644			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042722.D	22 Jul 2025 07:25	SY/MD	Ok
2	VSTDICCC010	VL042723.D	22 Jul 2025 08:55	SY/MD	Ok,M
3	VSTDICCC002	VL042724.D	22 Jul 2025 09:30	SY/MD	Ok,M
4	VSTDICCC001	VL042725.D	22 Jul 2025 10:04	SY/MD	Ok,M
5	VSTDICCC0.5	VL042726.D	22 Jul 2025 10:38	SY/MD	Ok,M
6	VSTDICCC0.1	VL042727.D	22 Jul 2025 11:12	SY/MD	Not Ok
7	VSTDICCC0.03	VL042728.D	22 Jul 2025 11:46	SY/MD	Ok,M
8	VSTDICCC015	VL042729.D	22 Jul 2025 12:21	SY/MD	Ok,M
9	VSTDICCC0.1	VL042730.D	22 Jul 2025 12:56	SY/MD	Ok,M
10	VSTDICV010	VL042731.D	22 Jul 2025 15:06	SY/MD	Ok,M
11	VL0722ABL01	VL042732.D	22 Jul 2025 15:41	SY/MD	Ok
12	VL0722ABS01	VL042733.D	22 Jul 2025 16:32	SY/MD	Ok,M
13	Q2617-01	VL042734.D	22 Jul 2025 17:07	SY/MD	Ok,M
14	Q2617-01DL	VL042735.D	22 Jul 2025 17:42	SY/MD	Not Ok
15	Q2617-02	VL042736.D	22 Jul 2025 18:17	SY/MD	Ok,M
16	Q2617-02DL	VL042737.D	22 Jul 2025 18:51	SY/MD	Not Ok
17	Q2617-03	VL042738.D	22 Jul 2025 19:26	SY/MD	Dilution
18	Q2617-03DL	VL042739.D	22 Jul 2025 20:01	SY/MD	Ok,M
19	Q2632-01	VL042740.D	22 Jul 2025 20:36	SY/MD	Dilution
20	Q2632-01DUP	VL042741.D	22 Jul 2025 21:12	SY/MD	Ok,M
21	Q2632-01DL	VL042742.D	22 Jul 2025 22:39	SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL072225

Review By	Semsettin Yesilyurt	Review On	7/23/2025 7:55:47 AM		
Supervise By	Maresh Dadoda	Supervise On	7/23/2025 8:20:51 AM		
SubDirectory	VL072225	HP Acquire Method	TO15AIR.M	HP Processing Method	VL07225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2639			
Initial Calibration Stds		AP2641,AP2642,AP2643			
CCC		AP2641			
Internal Standard/PEM		AP2639			
ICV/I.BLK		AP2644			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2632-02	VL042743.D	22 Jul 2025 23:15	SY/MD	Ok,M
23	Q2632-02DL	VL042744.D	22 Jul 2025 23:50	SY/MD	Not Ok
24	VL0722ABS02	VL042745.D	23 Jul 2025 00:24	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL072225

Review By	Semsettin Yesilyurt	Review On	7/23/2025 7:55:47 AM
Supervise By	Maresh Dadoda	Supervise On	7/23/2025 8:20:51 AM
SubDirectory	VL072225	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL07225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2639
Initial Calibration Stds	AP2641,AP2642,AP2643
CCC	AP2641
Internal Standard/PEM	AP2639
ICV/I.BLK	AP2644
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042722.D	22 Jul 2025 07:25		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042723.D	22 Jul 2025 08:55		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042724.D	22 Jul 2025 09:30		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042725.D	22 Jul 2025 10:04		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042726.D	22 Jul 2025 10:38		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042727.D	22 Jul 2025 11:12	Not used	SY/MD	Not Ok
7	VSTDICC0.03	VSTDICC0.03	VL042728.D	22 Jul 2025 11:46		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042729.D	22 Jul 2025 12:21		SY/MD	Ok,M
9	VSTDICC0.1	VSTDICC0.1	VL042730.D	22 Jul 2025 12:56		SY/MD	Ok,M
10	VSTDICV010	ICVVL072225	VL042731.D	22 Jul 2025 15:06	ICV failed for com.#13,79	SY/MD	Ok,M
11	VL0722ABL01	VL0722ABL01	VL042732.D	22 Jul 2025 15:41		SY/MD	Ok
12	VL0722ABS01	VL0722ABS01	VL042733.D	22 Jul 2025 16:32	BS failed for com.#79	SY/MD	Ok,M
13	Q2617-01	SV1	VL042734.D	22 Jul 2025 17:07		SY/MD	Ok,M
14	Q2617-01DL	SV1DL	VL042735.D	22 Jul 2025 17:42	Not Required	SY/MD	Not Ok
15	Q2617-02	SV2	VL042736.D	22 Jul 2025 18:17		SY/MD	Ok,M
16	Q2617-02DL	SV2DL	VL042737.D	22 Jul 2025 18:51	Not Required	SY/MD	Not Ok
17	Q2617-03	SV3	VL042738.D	22 Jul 2025 19:26	Need 40X	SY/MD	Dilution
18	Q2617-03DL	SV3DL	VL042739.D	22 Jul 2025 20:01		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL072225

Review By	Semsettin Yesilyurt	Review On	7/23/2025 7:55:47 AM
Supervise By	Maresh Dadoda	Supervise On	7/23/2025 8:20:51 AM
SubDirectory	VL072225	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL07225AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2639		
Initial Calibration Stds	AP2641,AP2642,AP2643		
CCC	AP2641		
Internal Standard/PEM	AP2639		
ICV/I.BLK	AP2644		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2632-01	IA1	VL042740.D	22 Jul 2025 20:36	need 10X(see non conf.)	SY/MD	Dilution
20	Q2632-01DUP	IA1DUP	VL042741.D	22 Jul 2025 21:12		SY/MD	Ok,M
21	Q2632-01DL	IA1DL	VL042742.D	22 Jul 2025 22:39		SY/MD	Ok,M
22	Q2632-02	OA1	VL042743.D	22 Jul 2025 23:15		SY/MD	Ok,M
23	Q2632-02DL	OA1DL	VL042744.D	22 Jul 2025 23:50	Not Required	SY/MD	Not Ok
24	VL0722ABS02	VL0722ABS02	VL042745.D	23 Jul 2025 00:24	Not Required	SY/MD	Not Ok

M : Manual Integration

Client Contact Information		Bottle Order ID : B2507008		Courier : F. Galdun		2 of 2 COCs																		
Client ID : GFEL01		Project ID : 64 2nd St., Brooklyn, NY		Sampler Name(s) : FRANK GALDUN		Analysis																		
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS		Matrix																		
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY																				
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified																				
State : NJ		Site Details: 64 2nd St. BROOKLYN, NY																						
Zip Code : 07034		Analysis Turnaround Time		Data Package Type :																				
Country :		Standard : 10-business days		EDD Type :																				
		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	Indoor/Ambient Air	Soil Gas									
OK1	10/15/8:11	10:11	29	4.5	4.5	70	70	-30	-6.3	10503	10332	6 L	50	VL042564.D	1									
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																								
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYSES ON THE ATTACHED VGT. Please follow the instructions on the back of this COC.																								
Special Instructions/QC Requirements & Comments :																								
Suspected Contamination: High Medium Low PID Readings: 0.0																								
Sampling site (State):																								
Quick Connector required : NO																								
Canisters Shipped by: <i>[Signature]</i>																								
Samples Relinquished by: <i>[Signature]</i>																								
Relinquished by:																								
Date/Time: 10/16/24																								
Date/Time: 10/17/24																								
Date/Time: 10/17/24																								
B2507008 - 1																								

Client Contact Information		Bottle Order ID : B2507008		Courier : F GARDUN		1 of 2 COCs										
Client ID : GFEL01		Project ID : 64 2nd St., Brooklyn, NY		Sampler Name(s) : FRANK GARDUN		Analysis										
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS		Matrix										
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY												
		Fax Number : 973-334-1692		Batch Certified												
City : Lake Hiawatha		Analysis Turnaround Time : 5 DAY														
State : NJ		Standard : 10-business days OR														
Zip Code : 07034		Rush (Specify): 5 Days														
Country :																
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 Cart ID	TO-15	Indoor/Ambient Air	Soil Gas
IAI 1/12/25	1/12/25	8:00	10:00	0.30	1	74	77	-30	-2.2	10511	10595	6 L	50	VL042564.D	1	1
Temperature (Fahrenheit)																
		Ambient		Maximum		Minimum										
Start																
Stop																
Pressure (Inches of Hg)																
		Ambient		Maximum		Minimum										
Start																
Stop																
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low Sampling site (State): Quick Connector required : NO Canisters Shipped by: SGA Samples Relinquished by: SGA Relinquished by:																
P/D Readings: 0.0																
Please follow the instructions on the back of this COC.																
GC/MS Analyst Signature (TO-15) Sub																
**Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST																
B2507008 - 2																

REQUESTED ANALYTE LIST:

PCE

TCE

cis-1,2-DCE

1,1,1-TCA

1,1-DCE

Vinyl chloride

Benzene

Toluene

Ethylbenzene

Naphthalene

Cyclohexane

2,2,4-Trimethylpentane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

o-xylene

m,p-xylene

Heptane

Hexane

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

NA60:

Title: Sample Custodian

Field Sample Seal No.: Q2632

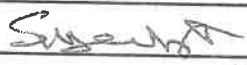
Date Broken: 7/17/2025

Military Time Seal Broken: 11:07:00

Case No.: 64 2nd St., Brooklyn, NY

Analytical Parameter/Fraction: MOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2632-01	IA1		
Q2632-02	OAI		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
7/17/25	12:25	Signature 	Signature 	
		Printed Name <u>Casiano, Rene</u>	Printed Name <u>Semir, Yousif</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

Analyst Signature:

Supervisor Signature:

Pressure Gauge ID:

Document Control # A3041228

Process Report

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

Order ID : Q2632

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
07/17/2025	B2507008	Q2632-02	-6.3	10332	6 L	10503		C2505002	VL042564.D Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D
07/17/2025	B2507008	Q2632-01	-2.2	10595	6 L	10511		C2505002	VL042564.D Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D

56501 -2.2

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

Client Sample ID #: IAI

Client Name: IAI

Project Name: 25051

Date: 7/17 Time:

Analysis:

Comments:

CHEMTECH'S SA

Date Received:

Storage Location: VOA Lab

Sample: Q2632-01

Cust #: IA1

82507008

10330 10.3

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

Client Sample ID #: DAI

Client Name: DAI

Project Name: 25051

Date: 7/17 Time: 10:15

Analysis:

Comments:

CHEMTECH'S SAMPLE ID:

Date Received: Expiration Date: Date:

Storage Location: VOA Lab

Sample: Q2632-02

Cust #: OAI

82507008