SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

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

Alliance Project No. : Q2390

Client Contact Information	Bottle Order ID : **B2506052**	Courier : F GALDUN	1 of 1 COCs
Client ID : **GFEL01** Project ID : ~~All Projects~~		Sampler Name(s) : FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **Frank galdun**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**		
	Site Details: 50 JEFFERSON BLVD STATEN ISLAND, NY	Batch Certified	
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : ~~10 business days~~ **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : PDF	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SV1	6/20/25	7:56	9:46	30	2	69	75	-30	-3.9	10226	10598	6 L	50	VL042564.D	1		1

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY: PCE, TCE, CIS-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: 1.3

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 6/19/25	Canisters Received by:	Date/Time:	
Samples Relinquished by:	Date/Time: 6/20/25	Received by:	Date/Time:	B2506052 - 1
Relinquished by:	Date/Time:	Received by:	Date/Time: 6/20/25 1210	

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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

QA Control Code: A2070148

New Jersey Department of Environmental Protection

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
NJSRP:
Field Sample Seal No.: Q2390
Case No.: 50 Jefferson Blvd, Staten I

Location: 284 Sheffield Street, Mountainside, NJ 7092
Title: Sample Custodian
Date Broken: 6/20/2025
Military Time Seal Broken: 12:10:00
Analytical Parameter/Fraction: VOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2390-01	SV1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
6/20/25	1400	Signature	Signature	AIR LAB
		Printed Name Cassandra Lopez	Printed Name J CARLOZ	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

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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 is 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

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LAB CHRONICLE

OrderID:	Q2390	**OrderDate:**	6/20/2025 1:30:05 PM
Client:	GFE LLC	**Project:**	50 Jefferson Blvd, Staten Island NY
Contact:	Frank Galdun	**Location:**	D41,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2390-01	**SV1**	**Air**			**06/20/25**			**06/20/25**
			VOCMS Group2	TO-15			06/23/25	
Q2390-01DL	**SV1DL**	**Air**			**06/20/25**			**06/20/25**
			VOCMS Group2	TO-15			06/23/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2390

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**SV1**							
Q2390-01	SV1	Air	cis-1,2-Dichloroethene	29.3		3.93	19.8	ug/m3
Q2390-01	SV1	Air	Trichloroethene	209		1.29	1.61	ug/m3
Q2390-01	SV1	Air	Tetrachloroethene	10800	E	1.02	2.03	ug/m3
			Total Voc :	11100				
			Total Concentration:	11100				
Client ID:	**SV1DL**							
Q2390-01DL	SV1DL	Air	Trichloroethene	239	D	25.8	32.3	ug/m3
Q2390-01DL	SV1DL	Air	Tetrachloroethene	15600	D	20.3	40.7	ug/m3
			Total Voc :	15800				
			Total Concentration:	15800				

QC SUMMARY

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Surrogate Summary

SDG No.: Q2390

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2390-01	SV1	1-Bromo-4-Fluorobenzene	10	10.4	104	65	135
Q2390-01DL	SV1DL	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
Q2390-01DLDU	SV1DLDUP	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
VL0623ABL01	VL0623ABL01	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
VL0623ABS01	VL0623ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105	65	135

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2390

Client: GFE LLC

Analytical Method: SWTO-15 **Datafile :** VL042665.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0623ABS01	Vinyl Chloride	10	9.20	ppbv	92			70	130	
	1,1-Dichloroethene	10	10.6	ppbv	106			70	130	
	cis-1,2-Dichloroethene	10	9.80	ppbv	98			70	130	
	1,1,1-Trichloroethane	10	10.0	ppbv	100			70	130	
	Trichloroethene	10	10.5	ppbv	105			70	130	
	Tetrachloroethene	10	10.0	ppbv	100			70	130	

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Duplicate Sample Summary

Lab Sample Id :	Q2390-01DLDUP		Q2390-01DL	
Client Id :	SV1DLDUP		SV1DL	
DF :	200		200	
Datafile :	VL042668.D		VL042667.D	
Anal Date & Time :	06/23/2025	13:08	06/23/2025	12:27

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	2200	2300	4.4
Trichloroethene	39.6	44.4	11.4
Vinyl Chloride	0	0	0

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SV1DLDUP

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2390 SAS No.: Q2390 SDG NO.: Q2390

Lab File ID: VL042668.D Lab Sample ID: Q2390-01DLDUP

Date Analyzed: 06/23/2025 Time Analyzed: 13:08

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
SV1DLDUP	Q2390-01DLDUP	VL042668.D	06/23/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0623ABL01

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2390 SAS No.: Q2390 SDG NO.: Q2390

Lab File ID: VL042664.D Lab Sample ID: VL0623ABL01

Date Analyzed: 06/23/2025 Time Analyzed: 09:56

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
VL0623ABS01	VL0623ABS01	VL042665.D	06/23/2025
SV1	Q2390-01	VL042666.D	06/23/2025
SV1DL	Q2390-01DL	VL042667.D	06/23/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2390 SAS No.: Q2390 SDG NO.: Q2390

Lab File ID: VL042578.D BFB Injection Date: 05/29/2025

Instrument ID: MSVOA_L BFB Injection Time: 08:05

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.4
75	30.0 - 66.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	67.2
175	4.0 - 9.0% of mass 174	5.2 (7.7) 1
176	93.0 - 101.0% of mass 174	63.6 (94.6) 1
177	5.0 - 9.0% of mass 176	4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042579.D	05/29/2025	11:09
VSTDICC002	VSTDICC002	VL042580.D	05/29/2025	11:43
VSTDICC001	VSTDICC001	VL042581.D	05/29/2025	12:15
VSTDICC0.5	VSTDICC0.5	VL042582.D	05/29/2025	12:47
VSTDICC0.1	VSTDICC0.1	VL042583.D	05/29/2025	13:19
VSTDICC0.03	VSTDICC0.03	VL042584.D	05/29/2025	13:51
VSTDICC015	VSTDICC015	VL042585.D	05/29/2025	14:24

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2390 SAS No.: Q2390 SDG NO.: Q2390

Lab File ID: VL042662.D BFB Injection Date: 06/23/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:57

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.6
75	30.0 - 66.0% of mass 95	55.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 120.0% of mass 95	62
175	4.0 - 9.0% of mass 174	4.8 (7.7) 1
176	93.0 - 101.0% of mass 174	60.8 (98.1) 1
177	5.0 - 9.0% of mass 176	3.6 (6) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042663.D	06/23/2025	08:41
VL0623ABL01	VL0623ABL01	VL042664.D	06/23/2025	09:56
VL0623ABS01	VL0623ABS01	VL042665.D	06/23/2025	10:42
SV1	Q2390-01	VL042666.D	06/23/2025	11:30
SV1DL	Q2390-01DL	VL042667.D	06/23/2025	12:27
SV1DLDUP	Q2390-01DLDUP	VL042668.D	06/23/2025	13:08

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2390 SAS No.: Q2390 SDG NO.: Q2390

Lab File ID: VL042663.D Date Analyzed: 06/23/2025

Instrument ID: MSVOA_L Time Analyzed: 08:41

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	107594	2.79	276339	3.96	242640	8.89
UPPER LIMIT	150632	3.12	386875	4.29	339696	9.22
LOWER LIMIT	64556.4	2.46	165803	3.63	145584	8.56
EPA SAMPLE NO.						
SV1	111038	2.79	286442	3.97	262633	8.89
SV1DL	107527	2.79	282710	3.96	243283	8.89
SV1DLDUP	105933	2.79	267802	3.96	238220	8.89
VL0623ABL01	104996	2.79	262845	3.96	229439	8.88
VL0623ABS01	107779	2.79	274326	3.96	241948	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2390 SAS No.: Q2390 SDG NO.: Q2390

Lab File ID: VL042663.D Date Analyzed: 06/23/2025

Instrument ID: MSVOA_L Time Analyzed: 08:41

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
SV1	0	0.00				
SV1DL	0	0.00				
SV1DLDUP	0	0.00				
VL0623ABL01	0	0.00				
VL0623ABS01	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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	GFE LLC	Date Collected:	06/20/25
Project:	50 Jefferson Blvd, Staten Island NY	Date Received:	06/20/25
Client Sample ID:	SV1	SDG No.:	Q2390
Lab Sample ID:	Q2390-01	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
VL042666.D	10		06/23/25 11:30	VL062325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.25	0.64	U	0.64	0.77	ug/m3
75-35-4	1,1-Dichloroethene	1.50	5.95	U	5.95	19.8	ug/m3
156-59-2	cis-1,2-Dichloroethene	7.40	29.3		3.93	19.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.16	0.87	U	0.87	1.64	ug/m3
79-01-6	Trichloroethene	38.8	209		1.29	1.61	ug/m3
127-18-4	Tetrachloroethene	1600	10800	E	1.02	2.03	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	111000		2.79			
540-36-3	1,4-Difluorobenzene	286000		3.965			
3114-55-4	Chlorobenzene-d5	263000		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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042666.D
Acq On : 23 Jun 2025 11:30
Operator : SY/MD
Sample : Q2390-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 06:42:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	111038	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	286442	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	262633	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	204206	10.372	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.700%				
Target Compounds							Qvalue
9) Propene	1.486	41	4428m	0.585	ppbv		
10) Heptane	4.991	43	12119	0.568	ppbv		99
13) Ethanol	1.725	45	9902	10.977	ppbv	#	39
15) Acetone	1.839	43	151237	11.308	ppbv		97
19) Isopropyl Alcohol	1.890	45	10569	1.322	ppbv	#	1
26) Hexane	2.832	57	58892	3.541	ppbv	#	40
27) Carbon Disulfide	2.156	76	3144m	0.246	ppbv		
29) Chloroform	2.852	83	4512m	0.209	ppbv		
31) cis-1,2-Dichloroethene	2.725	61	11210	0.737	ppbv		97
34) 2-Butanone	2.564	43	18897	0.925	ppbv		99
36) Benzene	3.661	78	3122	0.111	ppbv	#	84
38) Trichloroethene	4.561	130	46552m	3.883	ppbv		
41) Tetrahydrofuran	3.072	42	1373m	0.115	ppbv		
52) Tetrachloroethene	8.247	164	1731852	164.307	ppbv		98
53) Toluene	6.936	91	23079	0.708	ppbv		99
59) m/p-Xylene	9.539	91	15566	0.444	ppbv		93
60) o-Xylene	9.969	91	6477m	0.185	ppbv		
74) 1,2,4-Trimethylbenzene	11.539	105	4509m	0.113	ppbv		

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

Quantitation Report (QT Reviewed)

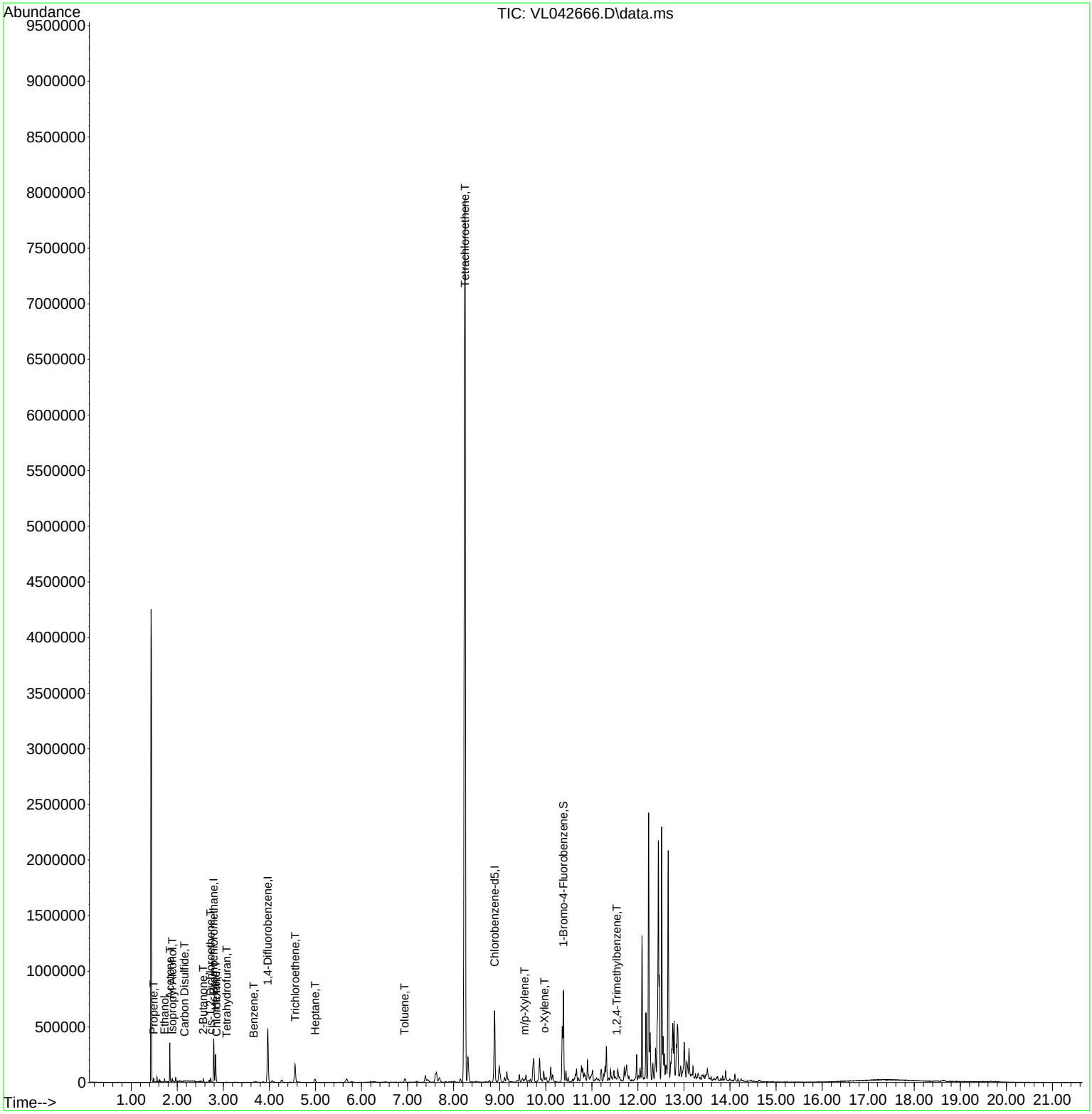
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042666.D
Acq On : 23 Jun 2025 11:30
Operator : SY/MD
Sample : Q2390-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

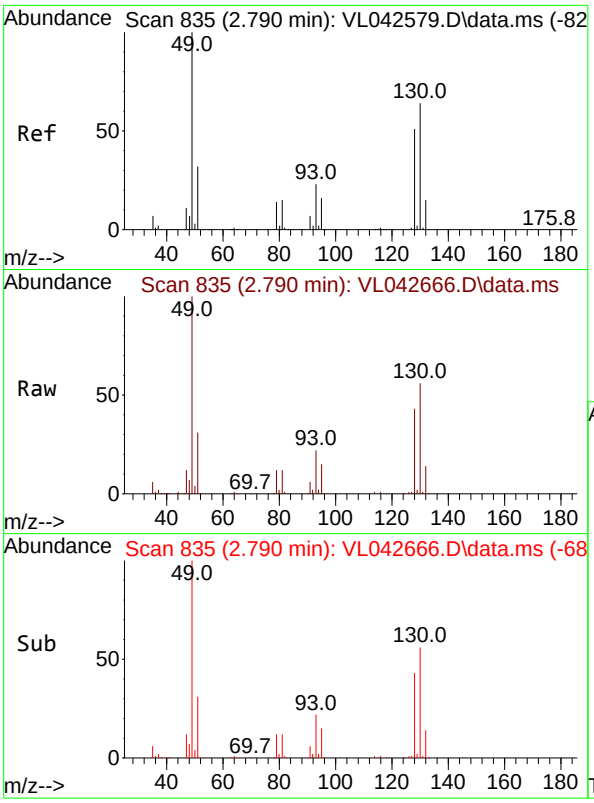
Quant Time: Jun 24 06:42:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

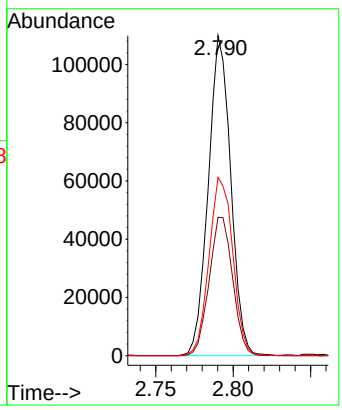




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 49 Resp: 11103

Ion	Ratio	Lower	Upper
49	100		
128	45.1	24.2	72.6
130	58.9	30.4	91.2



Instrument :
MSVOA_L
ClientSampleId :
SV1

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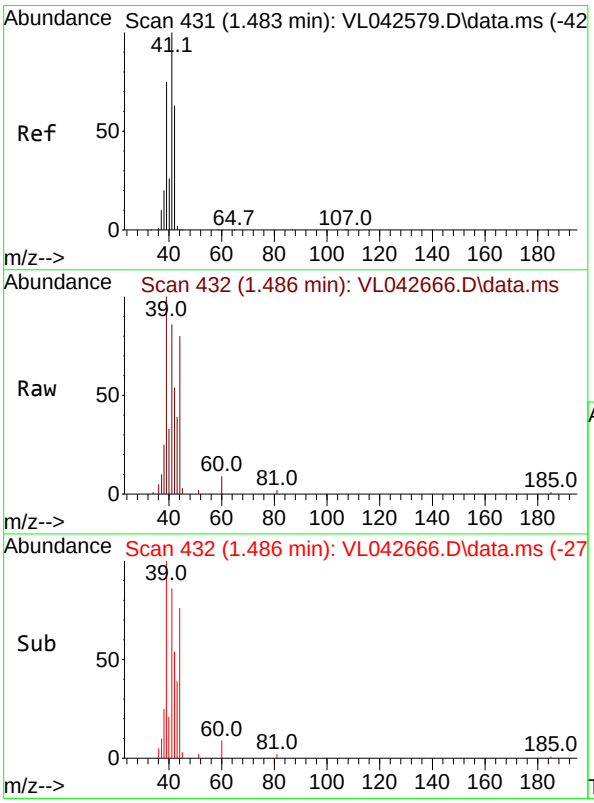
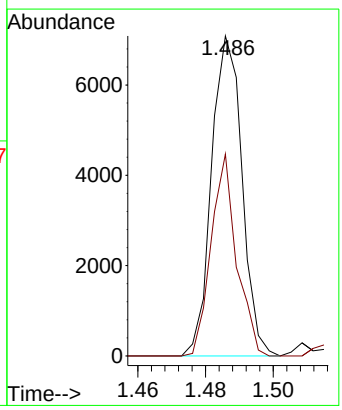
Supervised By :Semsettin Yesilyurt 06/24/2025

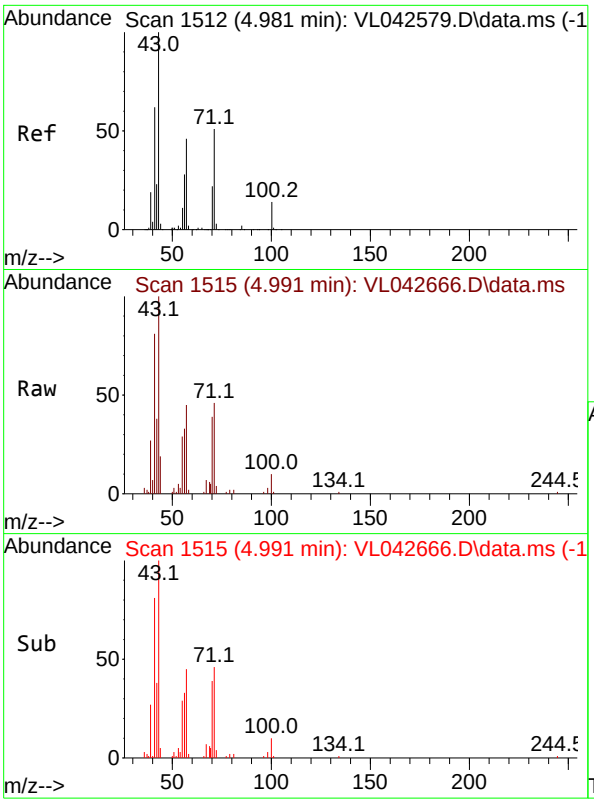


#9
Propene
Concen: 0.585 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 41 Resp: 4428

Ion	Ratio	Lower	Upper
41	100		
42	20.2	53.3	79.9#





#10
Heptane
Concen: 0.568 ppbv
RT: 4.991 min Scan# 1
Delta R.T. 0.010 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 43 Resp: 1211

Ion	Ratio	Lower	Upper
43	100		
57	49.0	38.9	58.3

Instrument :
MSVOA_L
ClientSampleId :
SV1

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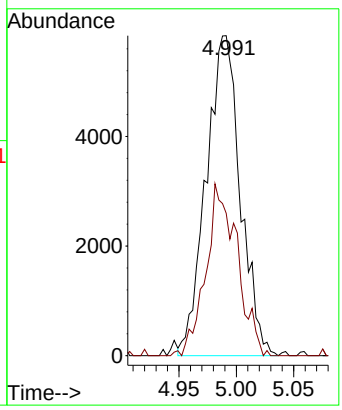
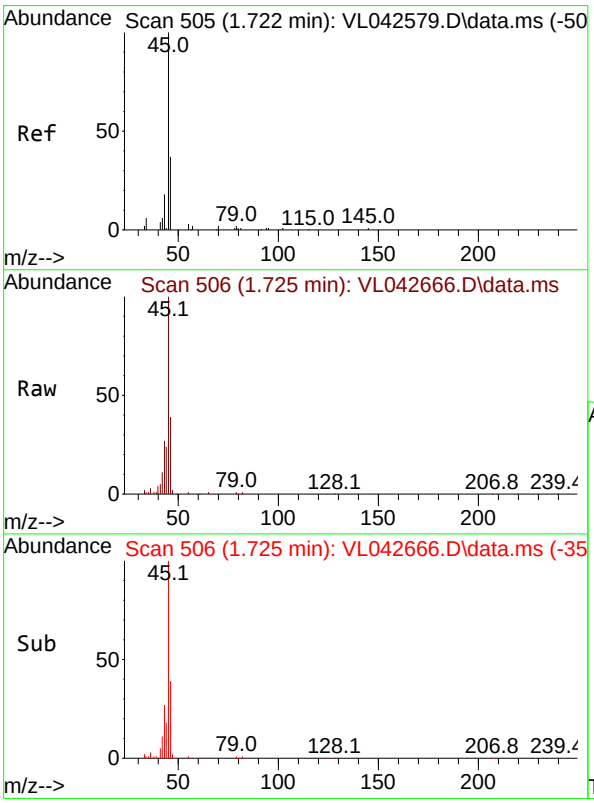
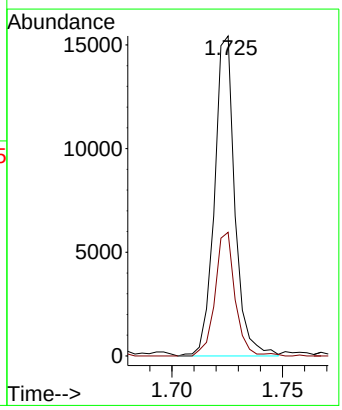


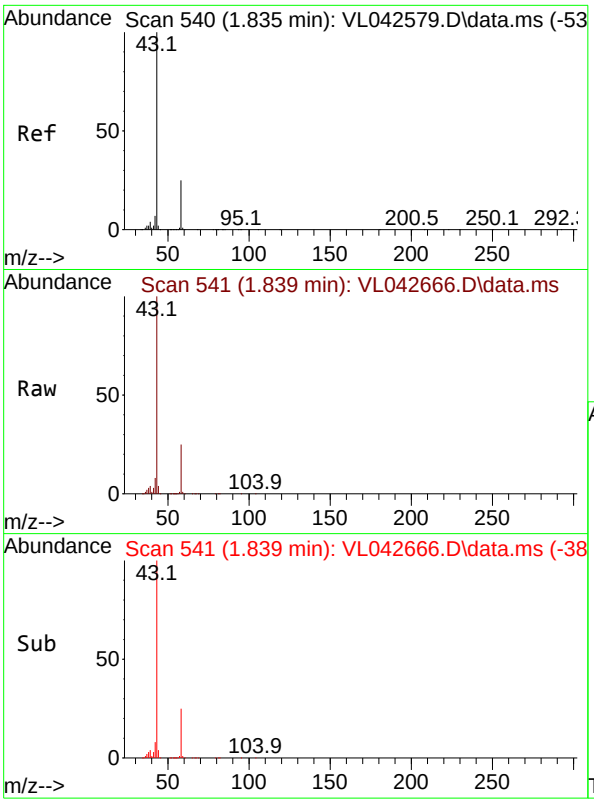


#13
Ethanol
Concen: 10.977 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 45 Resp: 9902

Ion	Ratio	Lower	Upper
45	100		
46	0.0	14.5	58.1#





#15
Acetone
Concen: 11.308 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 43 Resp: 15123

Ion	Ratio	Lower	Upper
43	100		
58	24.9	21.0	31.4

Instrument :
MSVOA_L
ClientSampleId :
SV1

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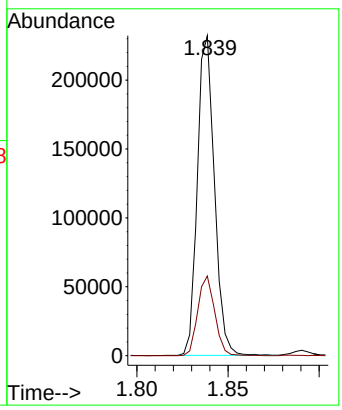
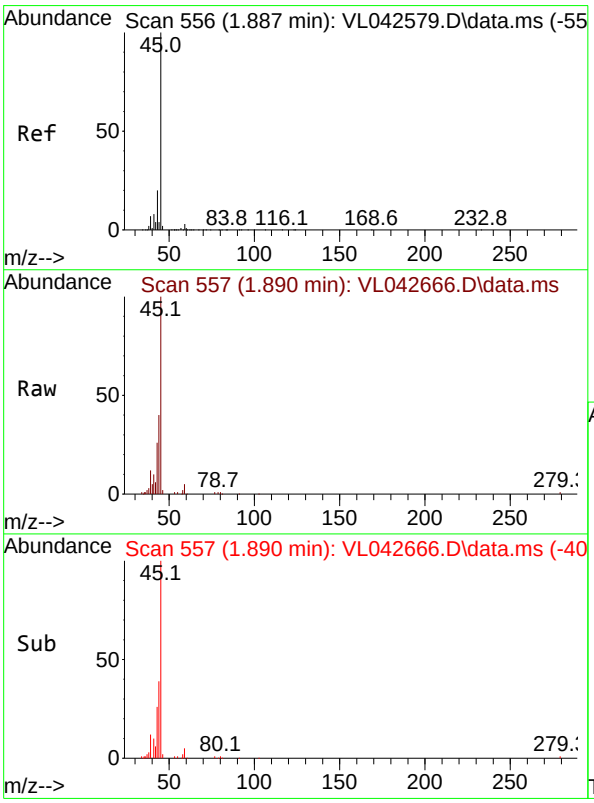
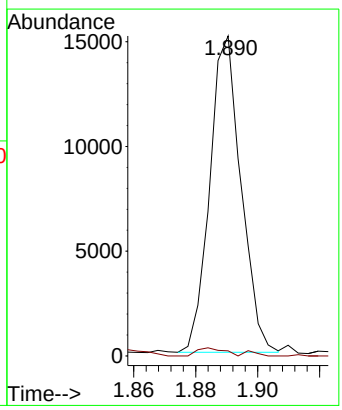


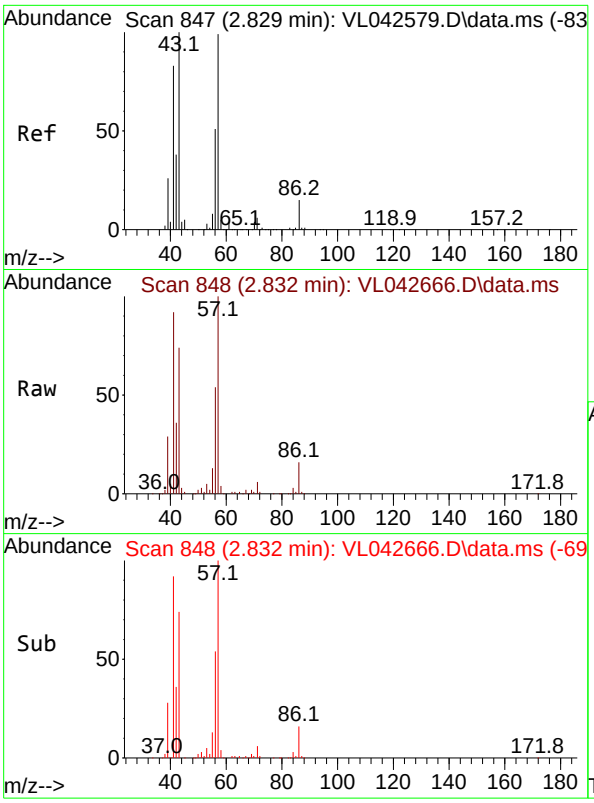


#19
Isopropyl Alcohol
Concen: 1.322 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 45 Resp: 10569

Ion	Ratio	Lower	Upper
45	100		
58	356.0	29.4	44.2#

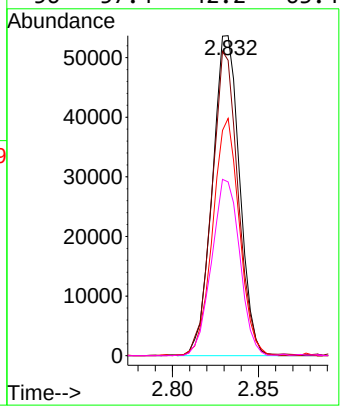




#26
Hexane
Concen: 3.541 ppbv
RT: 2.832 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 57 Resp: 5889

Ion	Ratio	Lower	Upper
57	100		
41	92.6	70.6	106.0
43	73.3	181.1	271.7#
56	57.4	42.2	63.4



Instrument :
MSVOA_L
ClientSampleId :
SV1

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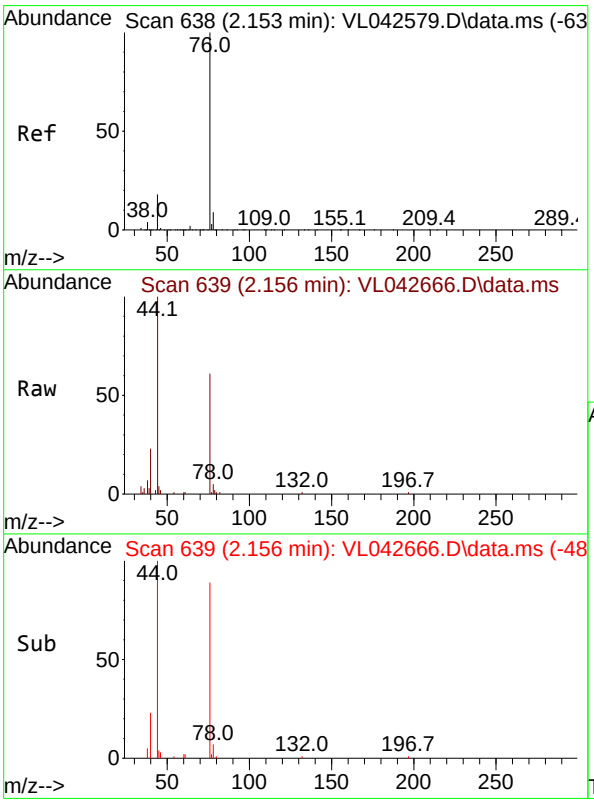
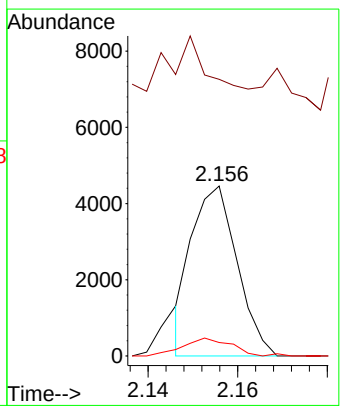
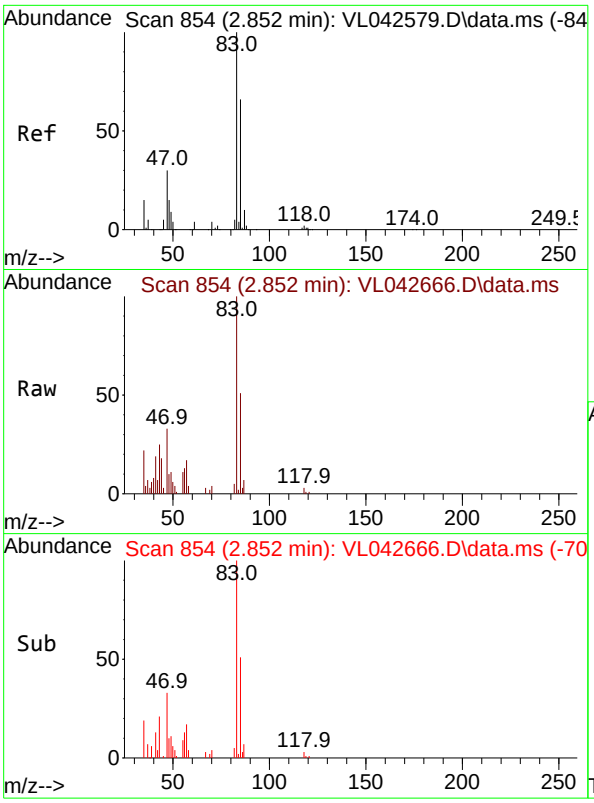


#27
Carbon Disulfide
Concen: 0.246 ppbv m
RT: 2.156 min Scan# 639
Delta R.T. 0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 76 Resp: 3144

Ion	Ratio	Lower	Upper
76	100		
44	464.8	21.3	31.9#
78	12.4	9.4	14.0





#29
Chloroform
Concen: 0.209 ppbv m
RT: 2.852 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 83 Resp: 451

Ion	Ratio	Lower	Upper
83	100		
85	51.0	52.8	79.2

Instrument :
MSVOA_L
ClientSampleId :
SV1

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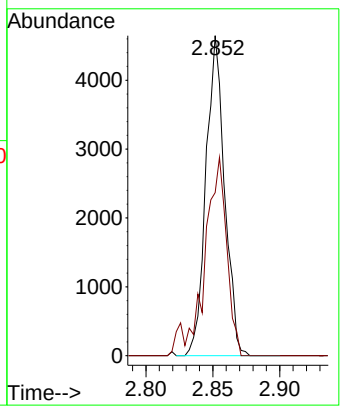
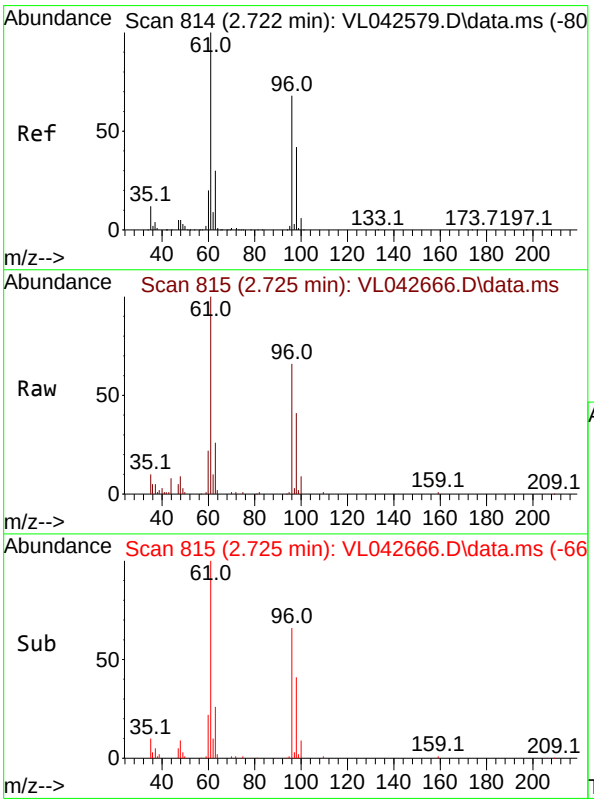
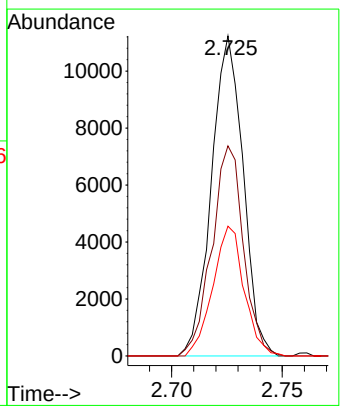


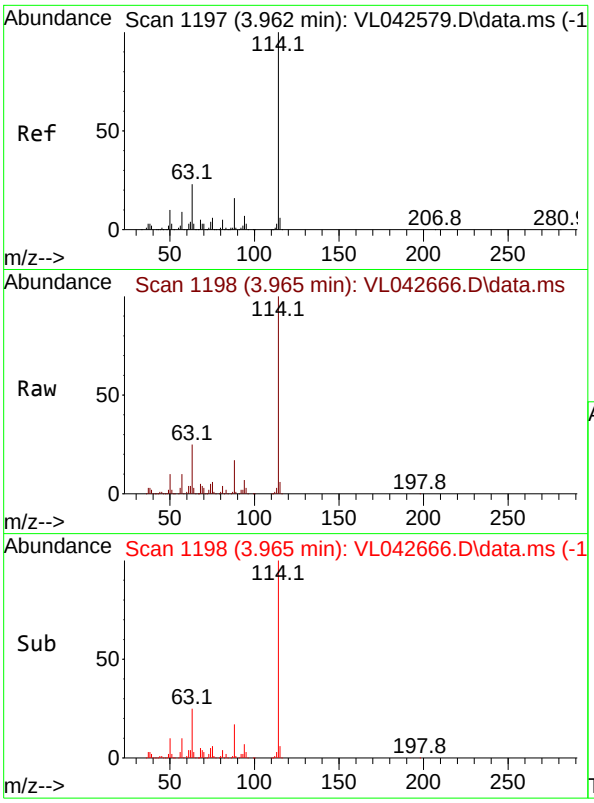


#31
cis-1,2-Dichloroethene
Concen: 0.737 ppbv
RT: 2.725 min Scan# 815
Delta R.T. 0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 61 Resp: 11210

Ion	Ratio	Lower	Upper
61	100		
96	65.6	54.5	81.7
98	40.6	33.4	50.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion:114 Resp: 28644

Ion	Ratio	Lower	Upper
114	100		
63	25.9	19.0	28.6
88	17.6	13.6	20.4

Instrument :
MSVOA_L
ClientSampleId :
SV1

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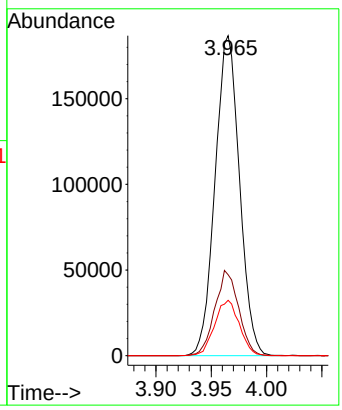
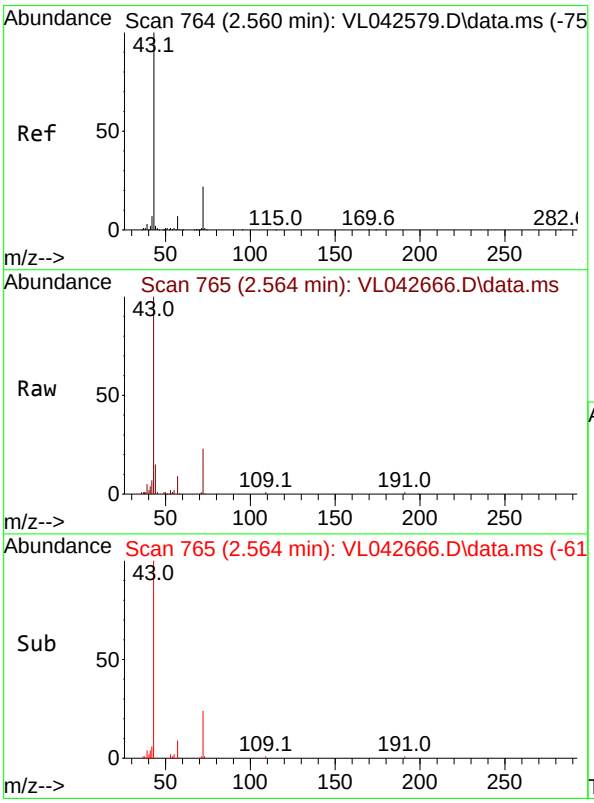
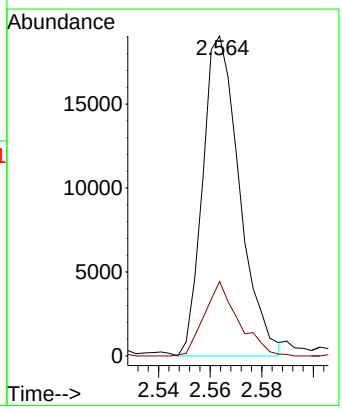


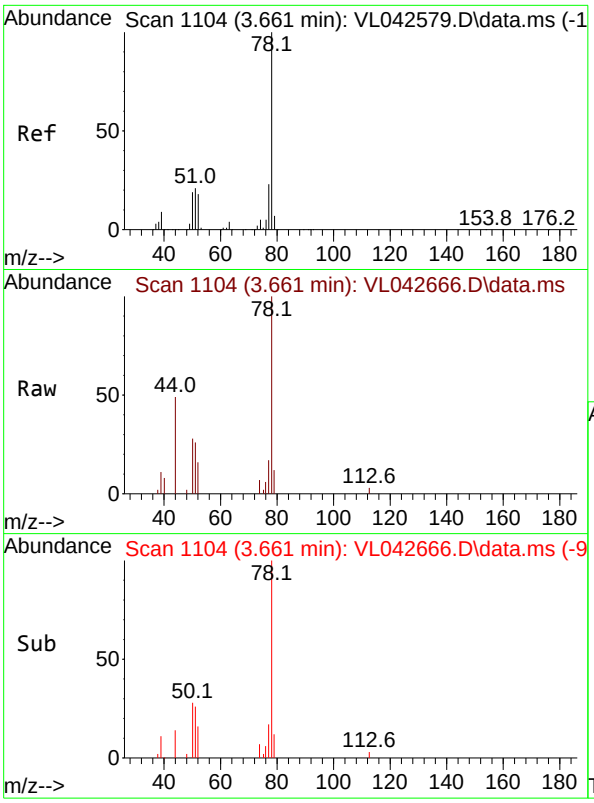


#34
2-Butanone
Concen: 0.925 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 43 Resp: 18897

Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.7	26.5





#36
Benzene
Concen: 0.111 ppbv
RT: 3.661 min Scan# 1
Delta R.T. -0.000 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 78 Resp: 312

Ion	Ratio	Lower	Upper
78	100		
77	16.7	18.2	27.2#
50	28.4	15.2	22.8#

Instrument :
MSVOA_L
ClientSampleId :
SV1

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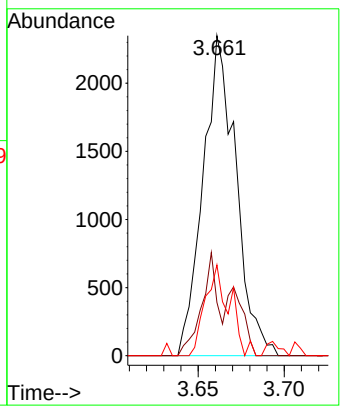
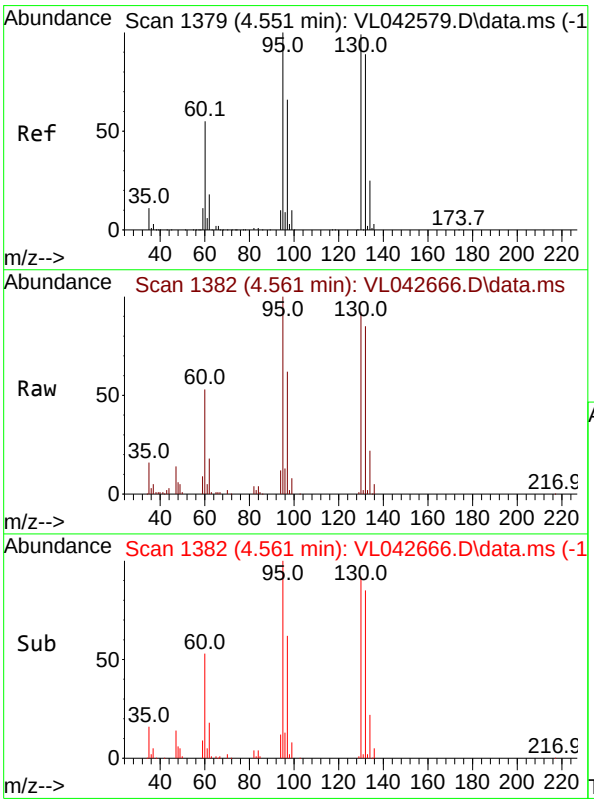
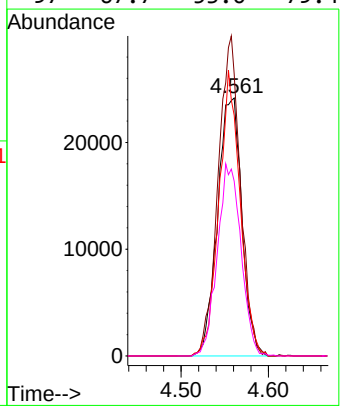


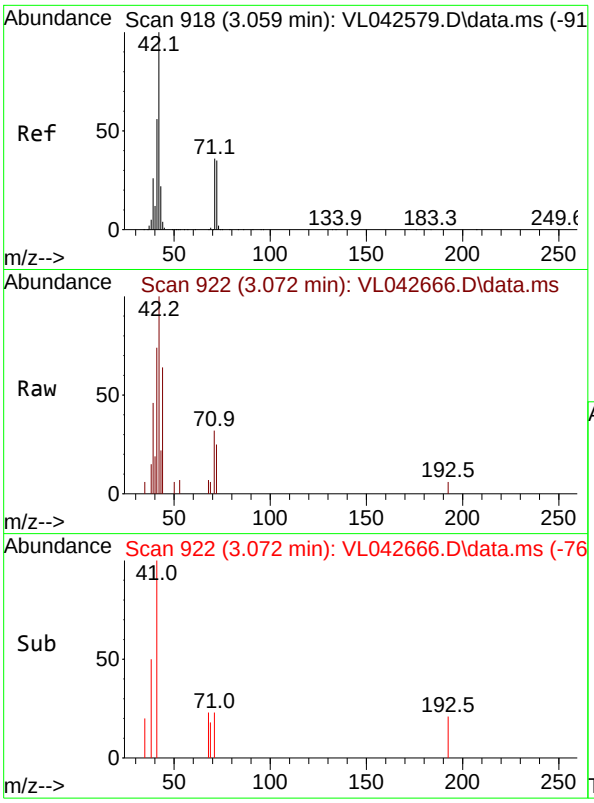


#38
Trichloroethene
Concen: 3.883 ppbv m
RT: 4.561 min Scan# 1382
Delta R.T. 0.010 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion:130 Resp: 46552

Ion	Ratio	Lower	Upper
130	100		
95	109.2	80.6	121.0
132	93.2	71.8	107.6
97	67.7	53.0	79.4





#41
Tetrahydrofuran
Concen: 0.115 ppbv m
RT: 3.072 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 42 Resp: 137

Ion	Ratio	Lower	Upper
42	100		
72	32.6	28.9	43.3
71	31.8	28.5	42.7

Instrument :
MSVOA_L
ClientSampleId :
SV1

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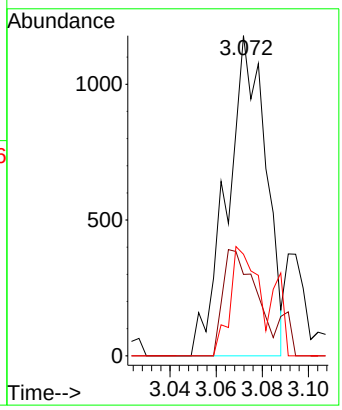
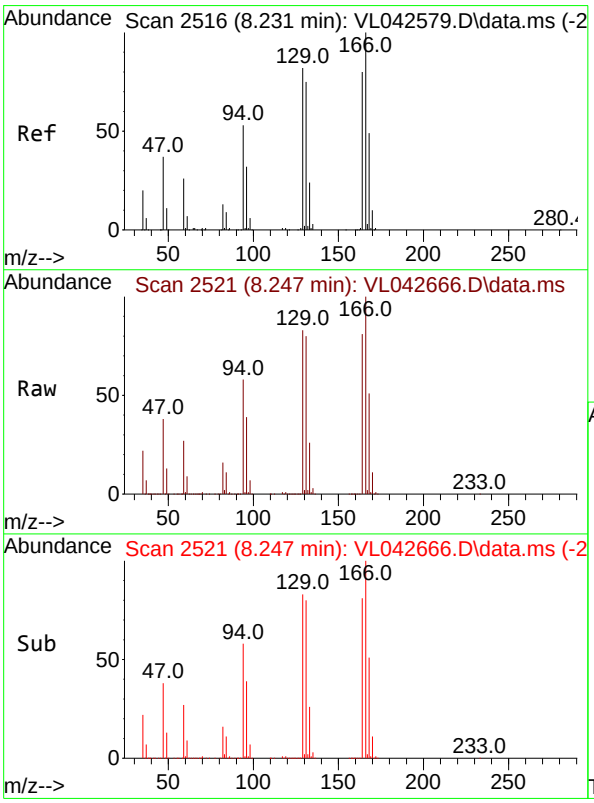
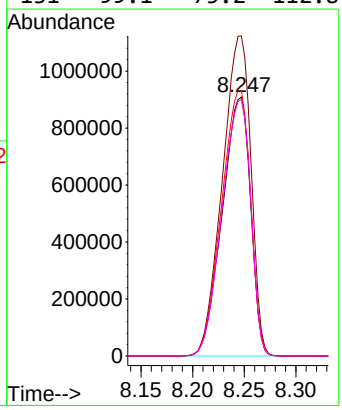


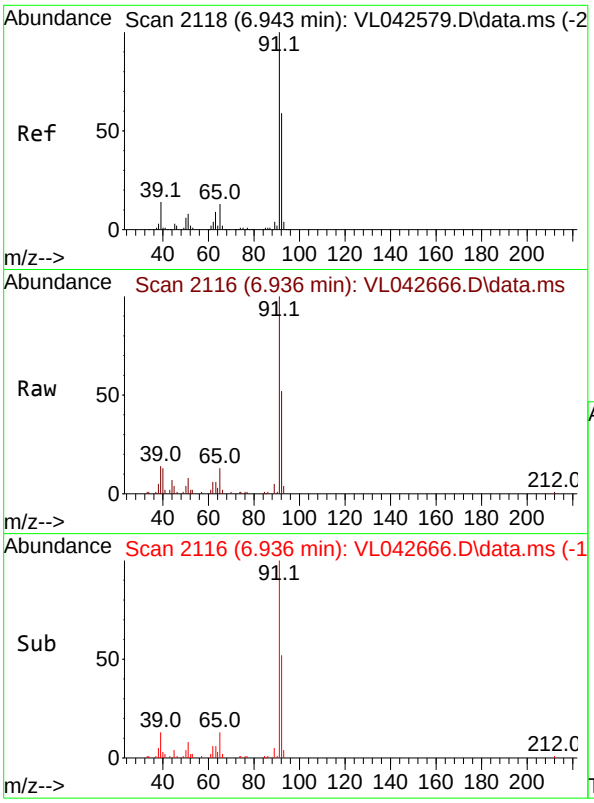


#52
Tetrachloroethene
Concen: 164.307 ppbv
RT: 8.247 min Scan# 2521
Delta R.T. 0.016 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion:164 Resp: 1731852

Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.0	150.0
129	102.4	82.2	123.4
131	99.1	75.2	112.8





#53
Toluene
Concen: 0.708 ppbv
RT: 6.936 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 91 Resp: 2307

Ion	Ratio	Lower	Upper
91	100		
92	60.8	48.2	72.4

Instrument :
MSVOA_L
ClientSampleId :
SV1

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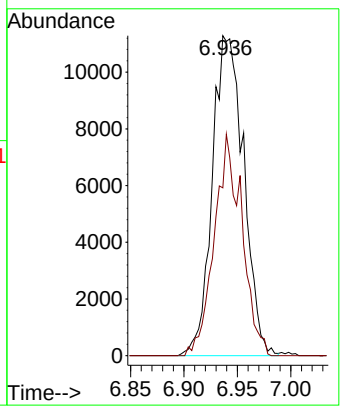
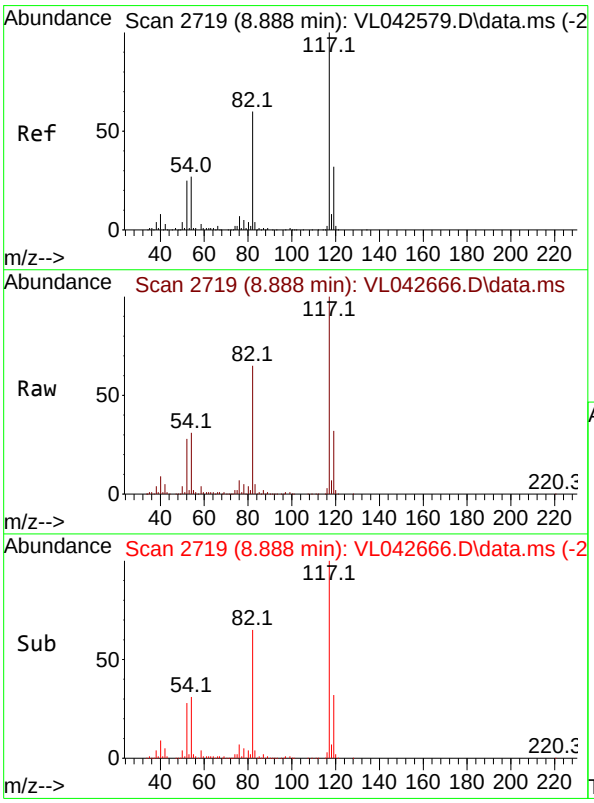
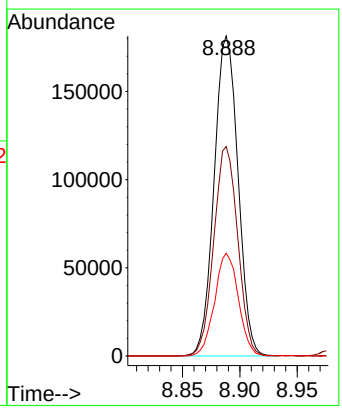


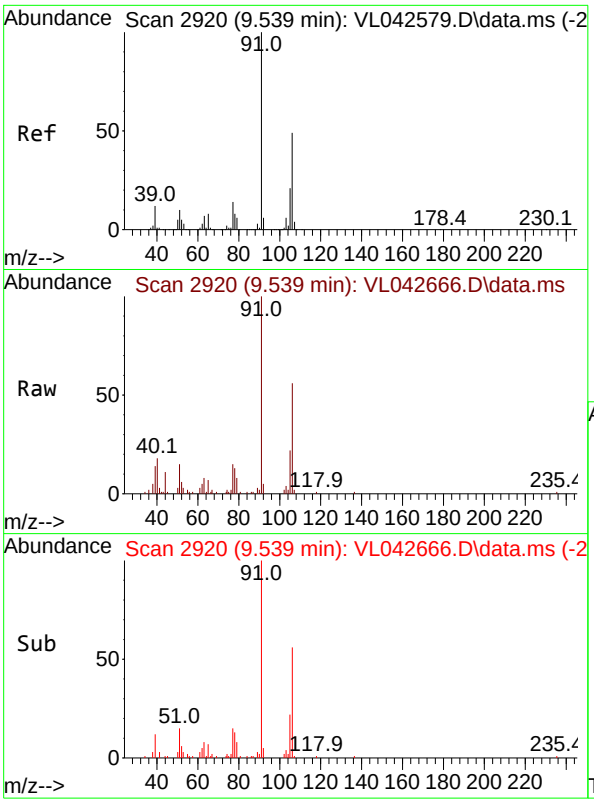


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion:117 Resp: 262633

Ion	Ratio	Lower	Upper
117	100		
82	65.7	51.2	76.8
119	32.1	26.3	39.5





#59
m/p-Xylene
Concen: 0.444 ppbv
RT: 9.539 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 91 Resp: 1556

Ion	Ratio	Lower	Upper
91	100		
106	43.9	38.8	58.2

Instrument :
MSVOA_L
ClientSampleId :
SV1

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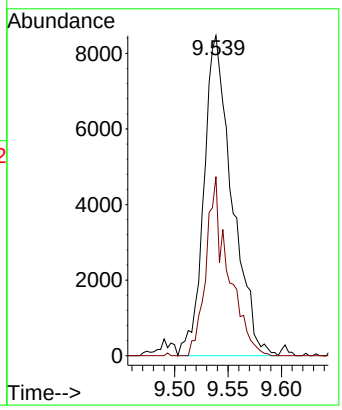
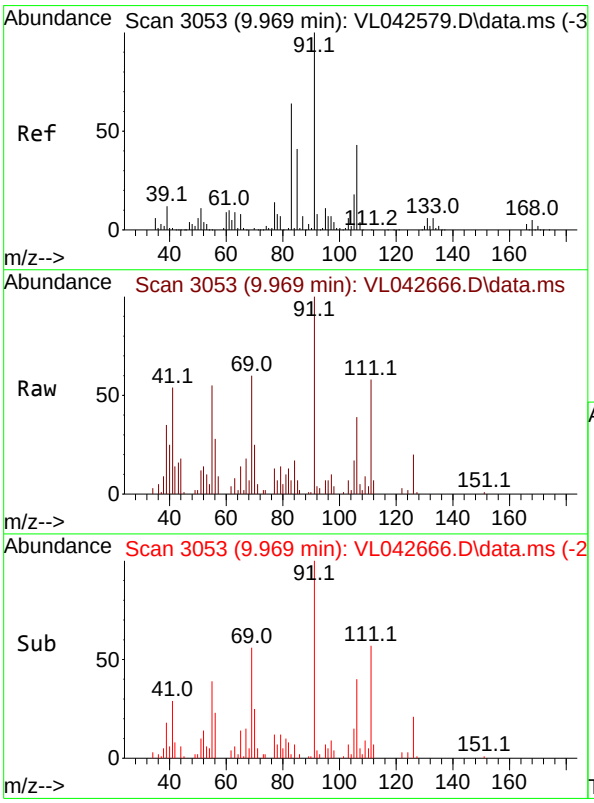
Supervised By :Semsettin Yesilyurt 06/24/2025

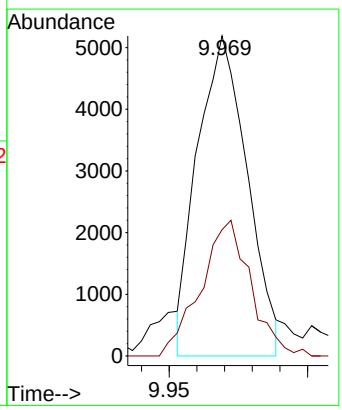


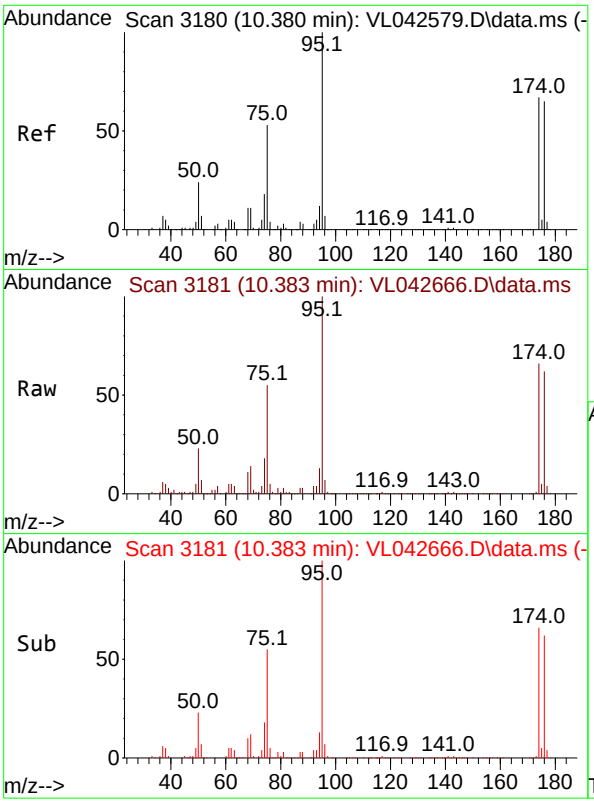


#60
o-Xylene
Concen: 0.185 ppbv m
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 91 Resp: 6477

Ion	Ratio	Lower	Upper
91	100		
106	42.4	22.9	68.5

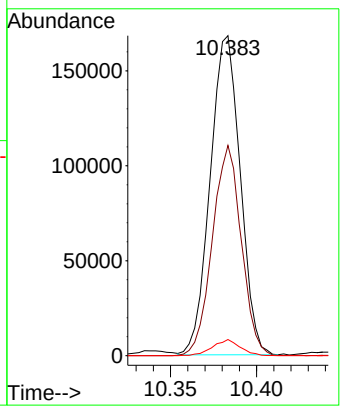




#68
1-Bromo-4-Fluorobenzene
Concen: 10.372 ppbv
RT: 10.383 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion: 95 Resp: 20420

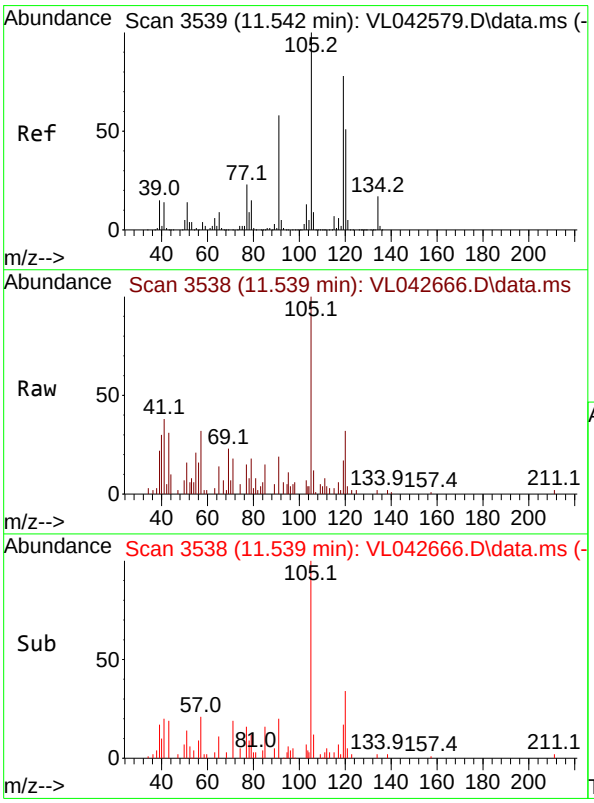
Ion	Ratio	Lower	Upper
95	100		
174	63.5	53.1	79.7
175	4.6	4.2	6.2



Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

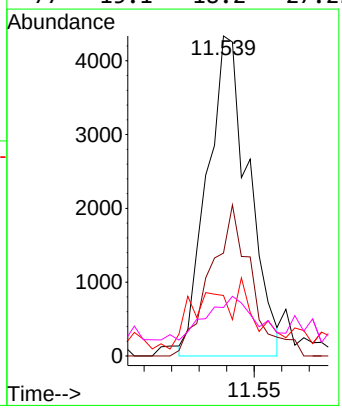
Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.113 ppbv m
RT: 11.539 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042666.D
Acq: 23 Jun 2025 11:30

Tgt Ion:105 Resp: 4509

Ion	Ratio	Lower	Upper
105	100		
120	32.1	40.8	61.2#
91	18.9	46.8	70.2#
77	15.1	18.2	27.2#



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

Report of Analysis

Client:	GFE LLC	Date Collected:	06/20/25
Project:	50 Jefferson Blvd, Staten Island NY	Date Received:	06/20/25
Client Sample ID:	SV1DL	SDG No.:	Q2390
Lab Sample ID:	Q2390-01DL	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
VL042667.D	200		06/23/25 12:27	VL062325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	5.00	12.8	UD	12.8	15.3	ug/m3
75-35-4	1,1-Dichloroethene	30.0	119	UD	119	396	ug/m3
156-59-2	cis-1,2-Dichloroethene	19.8	78.5	UD	78.5	396	ug/m3
71-55-6	1,1,1-Trichloroethane	3.20	17.5	UD	17.5	32.7	ug/m3
79-01-6	Trichloroethene	44.4	239	D	25.8	32.3	ug/m3
127-18-4	Tetrachloroethene	2300	15600	D	20.3	40.7	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	108000		2.787			
540-36-3	1,4-Difluorobenzene	283000		3.962			
3114-55-4	Chlorobenzene-d5	243000		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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042667.D
Acq On : 23 Jun 2025 12:27
Operator : SY/MD
Sample : Q2390-01DL 200X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 06:42:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	107527	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.962	114	282710	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	243283	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.381	95	186365	10.219	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.200%				
Target Compounds							Qvalue
13) Ethanol	1.723	45	708m	0.811	ppbv		
15) Acetone	1.839	43	8826	0.681	ppbv		99
26) Hexane	2.829	57	2765	0.172	ppbv	#	45
38) Trichloroethene	4.555	130	2631m	0.222	ppbv		
52) Tetrachloroethene	8.231	164	118544	11.395	ppbv		98

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

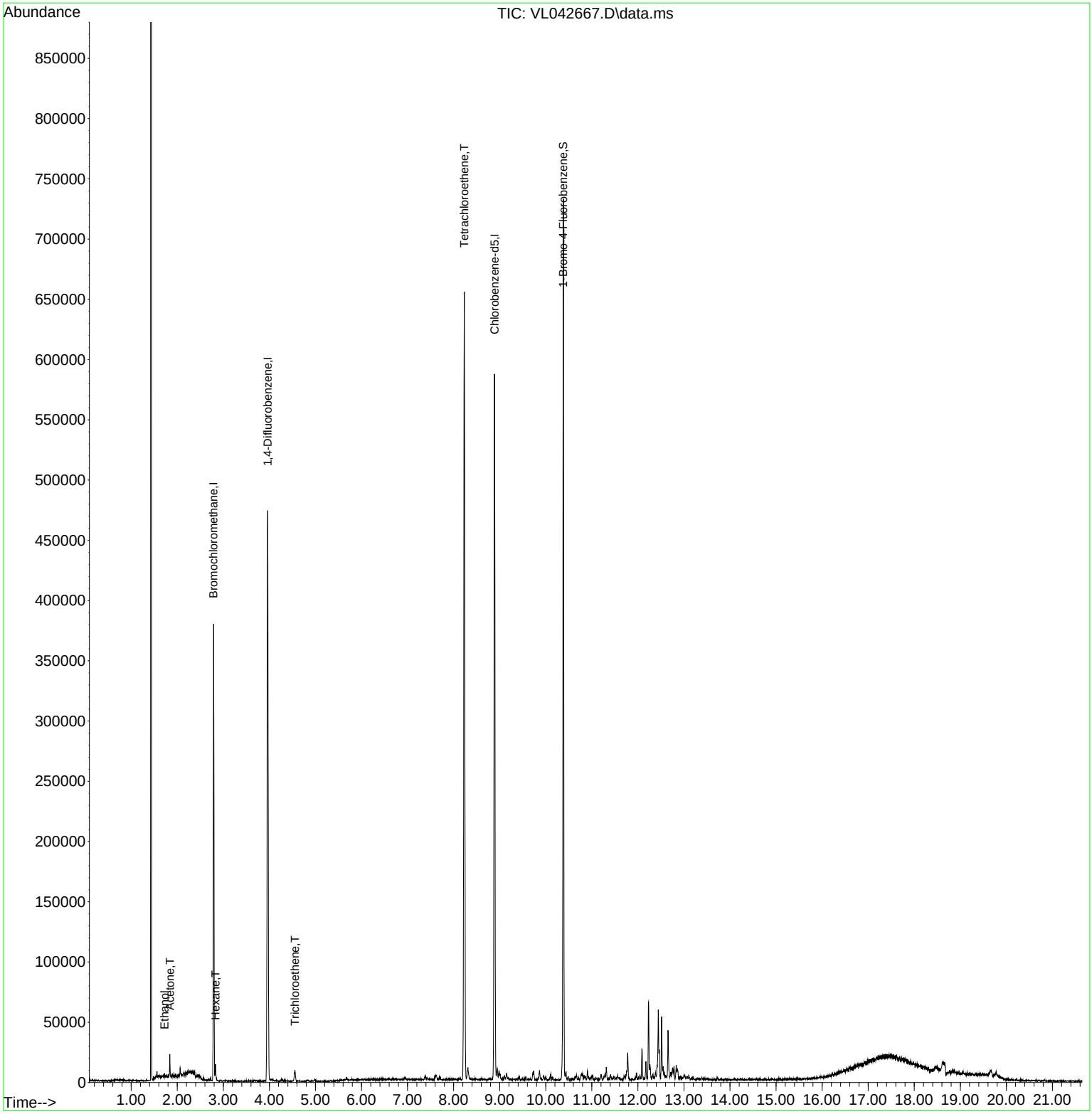
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042667.D
Acq On : 23 Jun 2025 12:27
Operator : SY/MD
Sample : Q2390-01DL 200X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

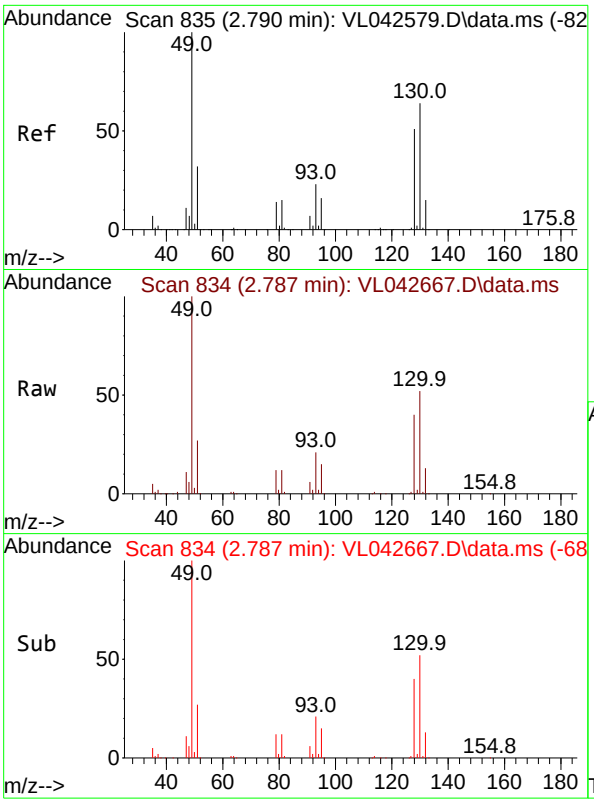
Quant Time: Jun 24 06:42:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

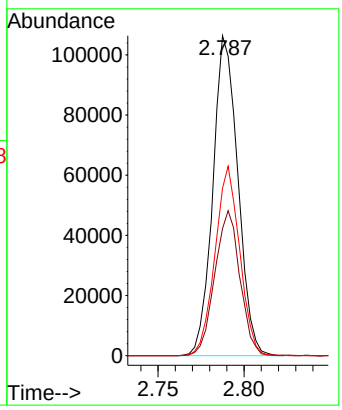




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042667.D
Acq: 23 Jun 2025 12:27

Tgt Ion: 49 Resp: 10752

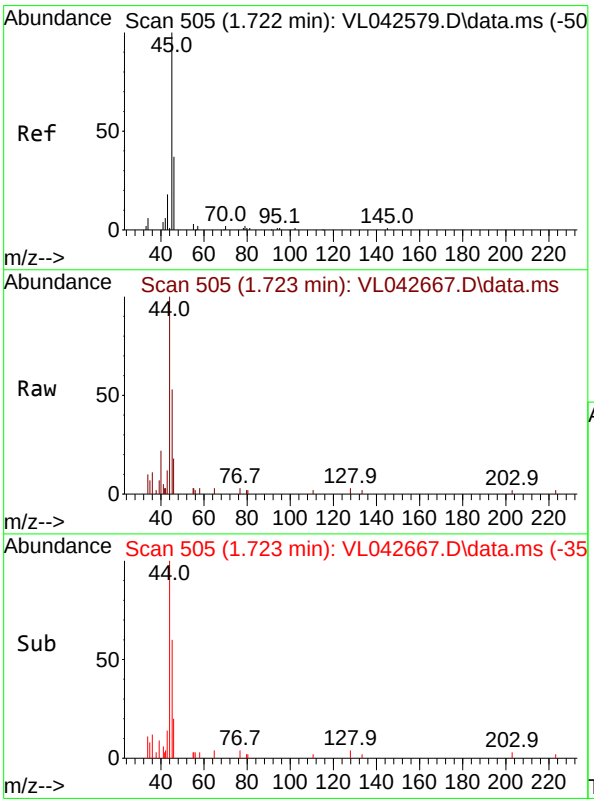
Ion	Ratio	Lower	Upper
49	100		
128	45.6	24.2	72.6
130	58.4	30.4	91.2



Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
APPROVED

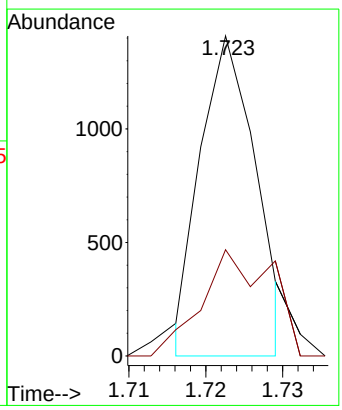
Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

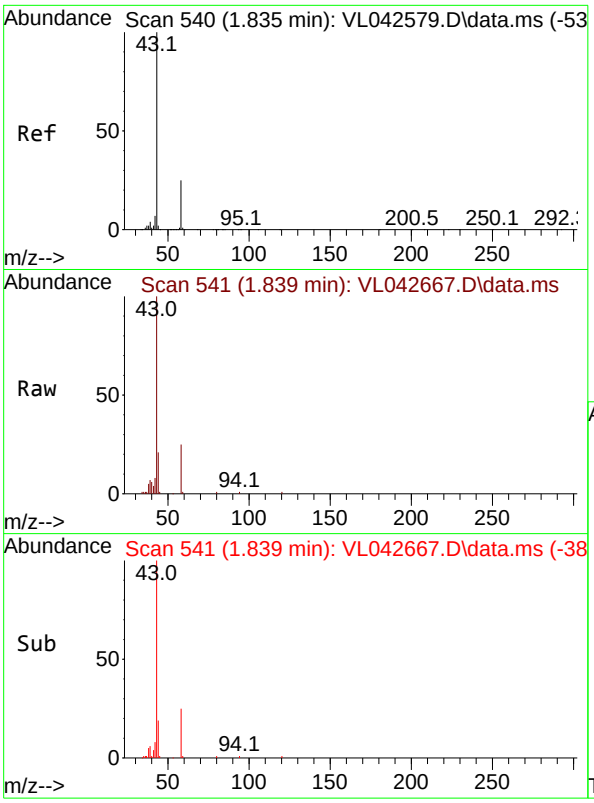


#13
Ethanol
Concen: 0.811 ppbv m
RT: 1.723 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042667.D
Acq: 23 Jun 2025 12:27

Tgt Ion: 45 Resp: 708

Ion	Ratio	Lower	Upper
45	100		
46	4614.5	14.5	58.1#

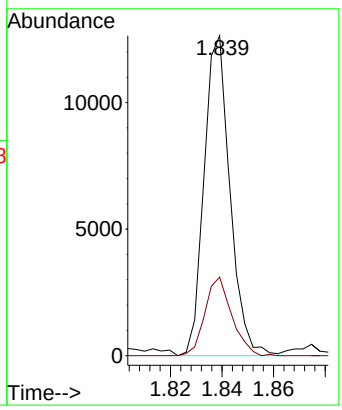




#15
Acetone
Concen: 0.681 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.004 min
Lab File: VL042667.D
Acq: 23 Jun 2025 12:27

Tgt Ion: 43 Resp: 882

Ion	Ratio	Lower	Upper
43	100		
58	25.4	21.0	31.4



Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
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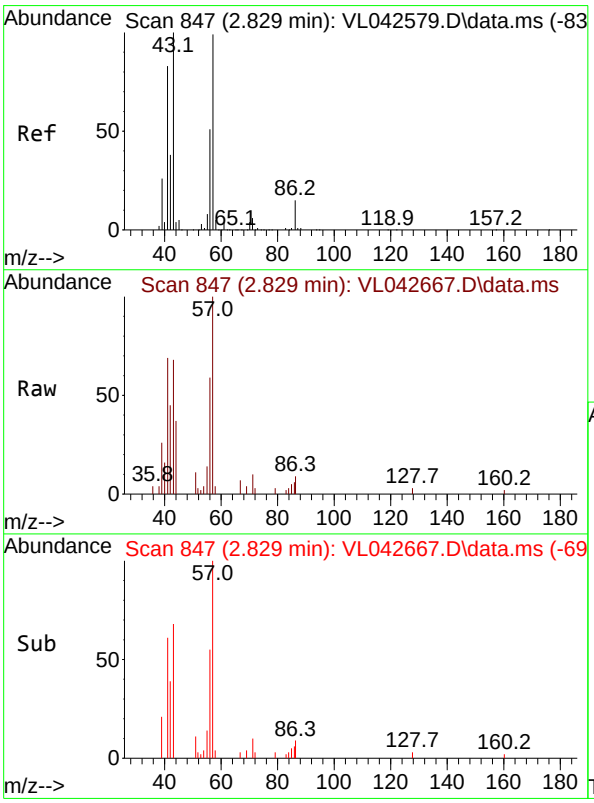
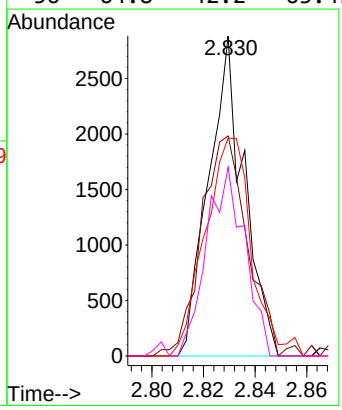
Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

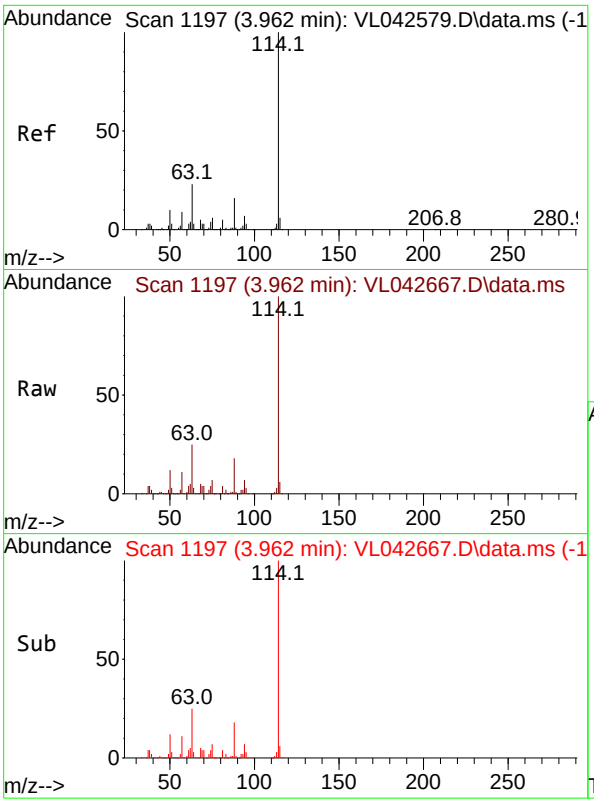


#26
Hexane
Concen: 0.172 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042667.D
Acq: 23 Jun 2025 12:27

Tgt Ion: 57 Resp: 2765

Ion	Ratio	Lower	Upper
57	100		
41	91.9	70.6	106.0
43	88.7	181.1	271.7#
56	64.8	42.2	63.4#

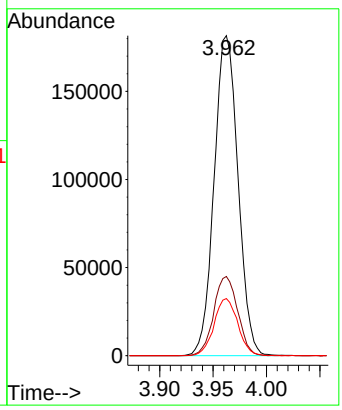




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042667.D
Acq: 23 Jun 2025 12:27

Tgt Ion:114 Resp: 28271

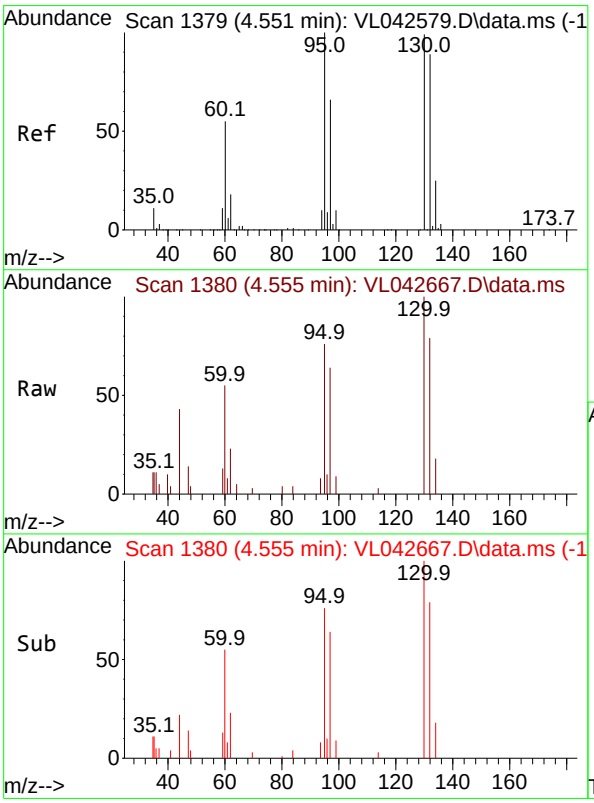
Ion	Ratio	Lower	Upper
114	100		
63	24.8	19.0	28.6
88	17.8	13.6	20.4



Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
APPROVED

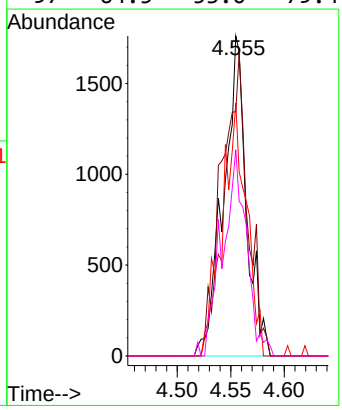
Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

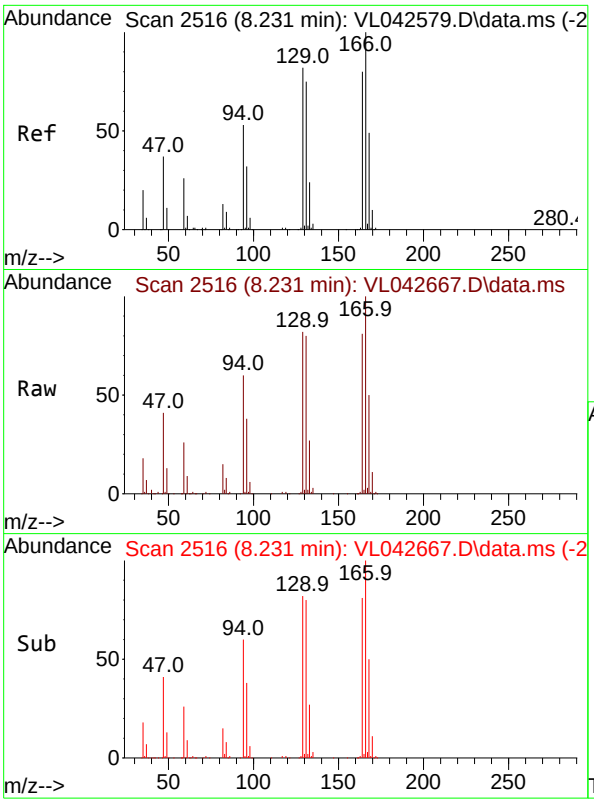


#38
Trichloroethene
Concen: 0.222 ppbv m
RT: 4.555 min Scan# 1380
Delta R.T. 0.004 min
Lab File: VL042667.D
Acq: 23 Jun 2025 12:27

Tgt Ion:130 Resp: 2631

Ion	Ratio	Lower	Upper
130	100		
95	76.4	80.6	121.0#
132	79.1	71.8	107.6
97	64.5	53.0	79.4

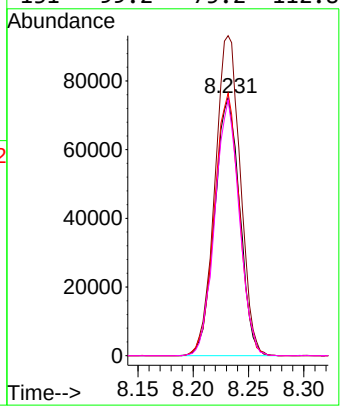




#52
Tetrachloroethene
Concen: 11.395 ppbv
RT: 8.231 min Scan# 2
Delta R.T. 0.000 min
Lab File: VL042667.D
Acq: 23 Jun 2025 12:27

Tgt Ion:164 Resp: 11854

Ion	Ratio	Lower	Upper
164	100		
166	124.1	100.0	150.0
129	101.7	82.2	123.4
131	99.2	75.2	112.8



Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
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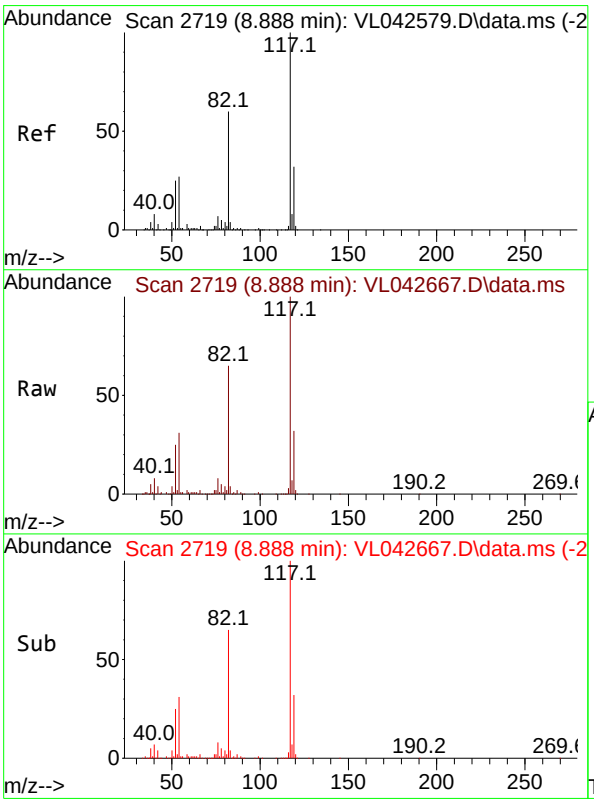
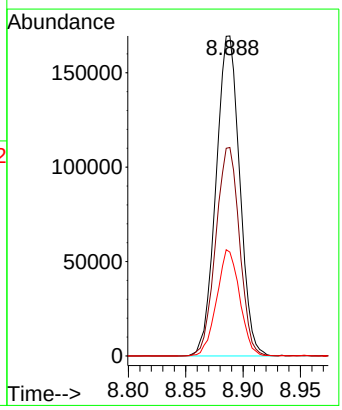
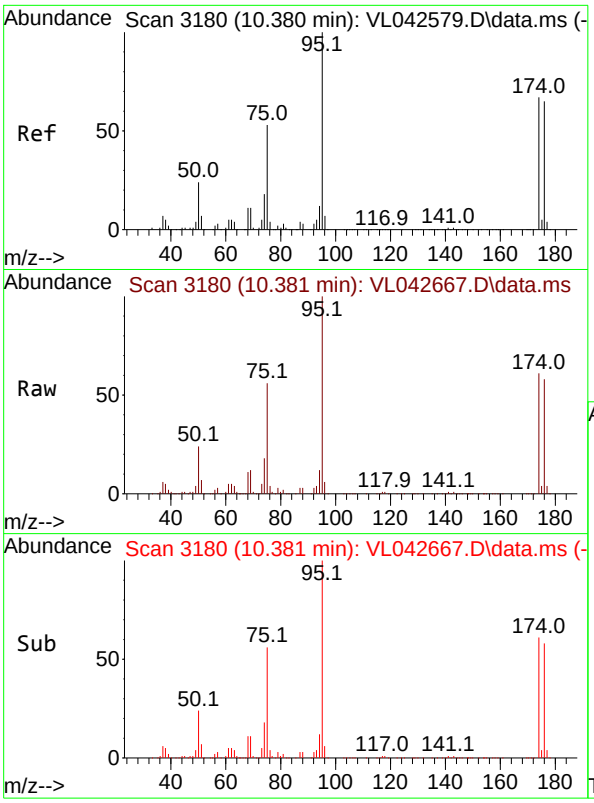


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042667.D
Acq: 23 Jun 2025 12:27

Tgt Ion:117 Resp: 243283

Ion	Ratio	Lower	Upper
117	100		
82	65.5	51.2	76.8
119	32.3	26.3	39.5

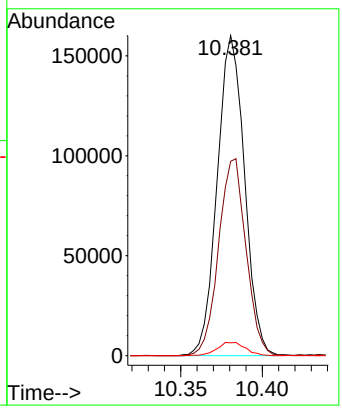




#68
1-Bromo-4-Fluorobenzene
Concen: 10.219 ppbv
RT: 10.381 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL042667.D
Acq: 23 Jun 2025 12:27

Tgt Ion: 95 Resp: 18636

Ion	Ratio	Lower	Upper
95	100		
174	61.9	53.1	79.7
175	4.4	4.2	6.2



Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2390 SAS No.: Q2390 SDG No.: Q2390

Instrument ID: MSVOA_L Calibration Date(s): 05/29/2025 05/29/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:24

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

LAB FILE ID: RRF010 = VL042579.D RRF002 = VL042580.D RRF001 = VL042581.D
RRF0.5 = VL042582.D RRF0.1 = VL042583.D RRF.03 = VL042584.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Vinyl Chloride	0.437	0.468	0.487	0.529	0.465	0.675	0.496	17.7
1,1-Dichloroethene	0.377	0.437	0.451	0.451			0.416	10.1
cis-1,2-Dichloroethene	1.271	1.465	1.461	1.419			1.370	8
1,1,1-Trichloroethane	1.794	2.029	2.043	2.004	2.083	2.207	1.990	7.9
Trichloroethene	0.376	0.438	0.455	0.468	0.432	0.389	0.419	9.3
Tetrachloroethene	0.333	0.390	0.383	0.391	0.407	0.351	0.368	8.9
1-Bromo-4-Fluorobenzene	0.744	0.741	0.751	0.755	0.751	0.752	0.750	0.7

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

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL052925AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri May 30 02:01:56 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL042584.D 0.1 =VL042583.D 0.5 =VL042582.D 1 =VL042581.D 2 =VL042580.D 10 =VL042579.D 15 =VL042585.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.257	1.353	1.300	1.135	1.101	1.229	8.78
3)		Chlorodifluoro...			1.881	1.861	1.826	1.475	1.420	1.693	13.32
4)		Chloromethane			0.502	0.529	0.507	0.461	0.434	0.487	7.85
5)	T	Vinyl Chloride	0.675	0.465	0.529	0.487	0.468	0.437	0.409	0.496	17.69
6)	T	Bromomethane			0.310	0.251	0.230	0.216	0.200	0.241	17.69
7)		Chloroethane			0.214	0.212	0.198	0.175	0.164	0.193	11.60
8)	T	Dichlorotetraf...			1.099	1.098	1.075	0.948	0.900	1.024	9.11
9)	T	Propene			0.710	0.728	0.722	0.650	0.599	0.682	8.18
10)	T	Heptane			2.079	2.082	1.981	1.777	1.688	1.921	9.37
11)	T	Trichlorofluor...			1.193	1.209	1.202	1.071	1.043	1.144	6.98
12)	T	1,1,2-Trichlor...			0.903	0.980	0.951	0.838	0.818	0.898	7.79
13)		Ethanol			0.114	0.095	0.092	0.058	0.047	0.081	33.96
14)	T	Bromoethene			0.359	0.346	0.362	0.317	0.304	0.338	7.71
15)	T	Acetone			1.404	1.484	1.299	0.928	0.908	1.205	22.39
16)	T	1,3-Butadiene			0.649	0.636	0.597	0.491	0.480	0.571	14.07
17)		tert-Butyl alc...			1.337	1.334	1.279	1.237	1.088	1.255	8.14
18)	T	1,1-Dichloroet...			0.451	0.451	0.437	0.377	0.364	0.416	10.11
19)	T	Isopropyl Alcohol			0.825	0.782	0.742	0.659	0.593	0.720	13.03
20)	T	Methylene Chlo...			0.473	0.457	0.418	0.326	0.314	0.398	18.57
21)	T	Allyl Chloride			0.924	0.921	0.866	0.789	0.749	0.850	9.22
22)	T	trans-1,2-Dich...			0.496	0.517	0.466	0.427	0.418	0.465	9.21
23)	T	Vinyl Acetate			1.750	1.663	1.686	1.458	1.584	1.628	6.89
24)	T	1,1-Dichloroet...			0.996	1.046	1.004	0.903	0.833	0.957	9.03
25)	T	Ethyl Acetate			3.496	3.585	3.412	3.054	2.934	3.296	8.67
26)	T	Hexane			1.690	1.638	1.526	1.350	1.286	1.498	11.76
27)	T	Carbon Disulfide			1.174	1.267	1.198	1.069	1.040	1.150	8.16
28)	T	Methyl tert-Bu...			0.664	0.693	0.621	0.550	0.511	0.608	12.59
29)	T	Chloroform			2.099	2.120	2.034	1.755	1.731	1.948	9.74
30)	T	Cyclohexane			1.318	1.363	1.288	1.146	1.092	1.242	9.38
31)	T	cis-1,2-Dichlo...			1.419	1.461	1.465	1.271	1.235	1.370	7.96
32)	T	1,1,1-Trichlor...	2.207	2.083	2.004	2.043	2.029	1.794	1.771	1.990	7.86
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.760	0.754	0.746	0.655	0.651	0.713	7.71
35)	T	Carbon Tetrach...	0.681	0.706	0.665	0.684	0.670	0.603	0.612	0.660	5.82
36)	T	Benzene			1.051	1.052	1.027	0.900	0.894	0.985	8.20
37)	T	1,2-Dichloroet...			0.518	0.509	0.513	0.448	0.460	0.489	6.72
38)	T	Trichloroethene	0.389	0.432	0.468	0.455	0.438	0.376	0.373	0.419	9.28
39)	T	1,2-Dichloropr...			0.415	0.374	0.373	0.329	0.330	0.364	9.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL052925AIR.M

40)	T	1,4-Dioxane		0.172	0.178	0.168	0.152	0.145	0.163	8.70
41)	T	Tetrahydrofuran		0.445	0.446	0.426	0.388	0.382	0.417	7.33
42)	T	Bromodichlorom...		0.702	0.737	0.721	0.656	0.660	0.695	5.17
43)		Methyl Methacr...		0.398	0.384	0.406	0.366	0.357	0.382	5.36
44)	T	2,2,4-Trimethy...		1.811	1.830	1.765	1.522	1.495	1.684	9.67
45)	T	t-1,3-Dichloro...		0.433	0.455	0.456	0.424	0.418	0.437	4.01
46)	T	cis-1,3-Dichlo...		0.567	0.568	0.555	0.527	0.523	0.548	3.99
47)	T	1,1,2-Trichlor...		0.406	0.401	0.394	0.343	0.340	0.377	8.69
48)	T	Dibromochlorom...		0.600	0.642	0.635	0.570	0.571	0.603	5.64
49)	T	Bromoform		0.524	0.519	0.553	0.508	0.501	0.521	3.83
50)	T	4-Methyl-2-Pen...		1.036	1.030	1.002	0.958	0.919	0.989	5.05
51)	T	2-Hexanone		0.752	0.818	0.824	0.779	0.749	0.784	4.49
52)	T	Tetrachloroethene	0.351	0.407	0.391	0.383	0.390	0.333	0.321	0.368	8.93
53)	T	Toluene		1.210	1.190	1.197	1.054	1.040	1.138	7.35
54)	T	1,2-Dibromoethane	0.575	0.578	0.590	0.576	0.516	0.513	0.558	6.15
55)	I	Chlorobenzene-d5	----------ISTD----------							
56)		1,1,1,2-Tetrac...		0.520	0.536	0.528	0.467	0.464	0.503	6.95
57)	T	Chlorobenzene		1.081	1.028	1.014	0.868	0.865	0.971	10.17
58)	T	Ethyl Benzene		1.770	1.786	1.833	1.547	1.545	1.696	8.19
59)	T	m/p-Xylene		1.411	1.412	1.431	1.212	1.208	1.335	8.55
60)	T	o-Xylene		1.430	1.410	1.441	1.187	1.188	1.331	9.87
61)	T	Styrene		0.626	0.658	0.678	0.590	0.596	0.629	6.07
62)		Isopropylbenzene		2.060	2.129	2.121	1.772	1.751	1.967	9.62
63)	T	1,1,2,2-Tetrac...	1.054	0.828	0.879	0.861	0.855	0.723	0.727	0.847	13.16
64)		n-propylbenzene		0.579	0.541	0.570	0.471	0.475	0.527	9.74
65)		tert-Butylbenzene		1.945	1.923	1.942	1.577	1.538	1.785	11.68
66)	T	Benzyl Chloride		0.199	0.237	0.252	0.241	0.220	0.230	8.94
67)		sec-Butylbenzene		2.745	2.743	2.699	2.195	2.165	2.509	12.01
68)	S	1-Bromo-4-Fluo...	0.752	0.751	0.755	0.751	0.741	0.744	0.754	0.750	0.68
69)		p-Isopropyltol...		2.241	2.249	2.299	1.868	1.851	2.101	10.57
70)		n-Butylbenzene		2.110	2.267	2.299	1.842	1.853	2.074	10.56
71)		2-Chlorotoluene		1.603	1.620	1.596	1.343	1.339	1.500	9.70
72)	T	4-Ethyltoluene		1.704	1.797	1.823	1.481	1.494	1.660	9.86
73)	T	1,3,5-Trimethy...		1.441	1.482	1.475	1.235	1.236	1.374	9.25
74)	T	1,2,4-Trimethy...		1.640	1.675	1.666	1.335	1.306	1.524	12.26
75)	T	1,3-Dichlorobe...		1.031	1.034	1.040	0.839	0.843	0.957	11.13
76)	T	1,4-Dichlorobe...		0.998	1.040	1.037	0.849	0.851	0.955	10.18
77)	T	1,2-Dichlorobe...		1.019	1.008	1.027	0.798	0.793	0.929	13.14
78)	T	Hexachloro-1,3...		0.872	0.893	0.880	0.607	0.593	0.769	20.11
79)	T	Naphthalene	1.088	1.366	1.634	1.785	1.383	1.366	1.437	16.89
80)	T	Naphthalene,2-...		0.444	0.562	0.781	0.716	0.743	0.649	21.85
81)	T	1,2,4-Trichlor...		0.716	0.889	0.944	0.735	0.727	0.802	13.26

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042579.D
Acq On : 29 May 2025 11:09
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:16:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	102792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	307854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285844	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	212758	9.929	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	116625	9.232	ppbv	100
3) Chlorodifluoromethane	1.476	51	151637	8.715	ppbv	100
4) Chloromethane	1.534	50	47416	9.478	ppbv	100
5) Vinyl Chloride	1.580	62	44895	8.809	ppbv	100
6) Bromomethane	1.667	94	22207	8.953	ppbv	100
7) Chloroethane	1.706	64	17953	9.066	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	97419	9.255	ppbv	100
9) Propene	1.483	41	66767	9.529	ppbv	100
10) Heptane	4.981	43	182619	9.236	ppbv	100
11) Trichlorofluoromethane	1.877	101	110055	9.363	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	86117	9.330	ppbv	100
13) Ethanol	1.722	45	5975m	7.639	ppbv	
14) Bromoethene	1.784	108	32588	9.386	ppbv	100
15) Acetone	1.835	43	95441	7.708	ppbv	100
16) 1,3-Butadiene	1.609	39	50485	8.607	ppbv	100
17) tert-Butyl alcohol	2.043	59	127162	9.858	ppbv	100
18) 1,1-Dichloroethene	2.036	96	38765	9.026	ppbv	100
19) Isopropyl Alcohol	1.887	45	67731	9.151	ppbv	100
20) Methylene Chloride	2.062	84	33544	8.209	ppbv	100
21) Allyl Chloride	2.098	41	81153	9.289	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	43936	9.165	ppbv	100
23) Vinyl Acetate	2.467	43	149858	8.954	ppbv	100
24) 1,1-Dichloroethane	2.412	63	92836	9.442	ppbv	100
25) Ethyl Acetate	2.839	43	313915	9.264	ppbv	100
26) Hexane	2.829	57	138771	9.013	ppbv	100
27) Carbon Disulfide	2.153	76	109904	9.298	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	56510	9.045	ppbv	100
29) Chloroform	2.852	83	180449	9.013	ppbv	100
30) Cyclohexane	3.858	84	117833	9.232	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	130618	9.274	ppbv	100
32) 1,1,1-Trichloroethane	3.370	97	184372	9.177	ppbv	100
34) 2-Butanone	2.560	43	201796	9.192	ppbv	100
35) Carbon Tetrachloride	3.768	117	185629	9.132	ppbv	100
36) Benzene	3.661	78	277132	9.142	ppbv	100
37) 1,2-Dichloroethane	3.221	62	137914	9.153	ppbv	100
38) Trichloroethene	4.551	130	115772	8.916	ppbv	100
39) 1,2-Dichloropropane	4.318	63	101185	9.029	ppbv	100
40) 1,4-Dioxane	4.590	88	46671	9.797	ppbv #	100
41) Tetrahydrofuran	3.059	42	119530	9.301	ppbv	100
42) Bromodichloromethane	4.496	83	202026	9.441	ppbv	100
43) Methyl Methacrylate	4.884	69	112746	9.595	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	468572	9.043	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	130611	9.700	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042579.D
Acq On : 29 May 2025 11:09
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:16:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46)	cis-1,3-Dichloropropene	5.609	75	162155	9.614	ppbv	100
47)	1,1,2-Trichloroethane	6.587	97	105576	9.097	ppbv	100
48)	Dibromochloromethane	7.396	129	175572	9.450	ppbv	100
49)	Bromoform	9.490	173	156317	9.751	ppbv	100
50)	4-Methyl-2-Pentanone	5.758	43	294836	9.643	ppbv	100
51)	2-Hexanone	7.445	43	239826	9.930	ppbv	100
52)	Tetrachloroethene	8.231	164	102403	9.038	ppbv	100
53)	Toluene	6.943	91	324605	9.264	ppbv	100
54)	1,2-Dibromoethane	7.658	107	158813	9.231	ppbv	100
56)	1,1,1,2-Tetrachloroethane	8.930	131	133368	9.279	ppbv	100
57)	Chlorobenzene	8.927	112	248085	8.938	ppbv	100
58)	Ethyl Benzene	9.361	91	442268	9.121	ppbv	100
59)	m/p-Xylene	9.539	91	692934m	18.156	ppbv	
60)	o-Xylene	9.969	91	339403	8.919	ppbv	100
61)	Styrene	9.875	104	168674	9.374	ppbv	100
62)	Isopropylbenzene	10.545	105	506586	9.010	ppbv	100
63)	1,1,2,2-Tetrachloroethane	9.969	83	206564	8.536	ppbv	100
64)	n-propylbenzene	10.992	120	134675	8.936	ppbv	99
65)	tert-Butylbenzene	11.536	119	450639	8.833	ppbv	100
66)	Benzyl Chloride	11.620	91	68801	10.457	ppbv	100
67)	sec-Butylbenzene	11.772	105	627565	8.749	ppbv	100
69)	p-Isopropyltoluene	11.931	119	533961	8.889	ppbv	100
70)	n-Butylbenzene	12.287	91	526566	8.881	ppbv	100
71)	2-Chlorotoluene	10.904	91	383881	8.952	ppbv	100
72)	4-Ethyltoluene	11.131	105	423227	8.920	ppbv	100
73)	1,3,5-Trimethylbenzene	11.209	105	352978	8.989	ppbv	100
74)	1,2,4-Trimethylbenzene	11.542	105	381512	8.755	ppbv	100
75)	1,3-Dichlorobenzene	11.613	146	239782	8.762	ppbv	100
76)	1,4-Dichlorobenzene	11.675	146	242731	8.894	ppbv	100
77)	1,2-Dichlorobenzene	11.950	146	228222	8.593	ppbv	100
78)	Hexachloro-1,3-Butadiene	13.885	225	173447	7.893	ppbv	100
79)	Naphthalene	13.516	128	395465	9.666	ppbv	100
80)	Naphthalene,2-methyl-	14.462	142	204746	11.045	ppbv	100
81)	1,2,4-Trichlorobenzene	13.445	180	210120	9.163	ppbv	100

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

Quantitation Report (QT Reviewed)

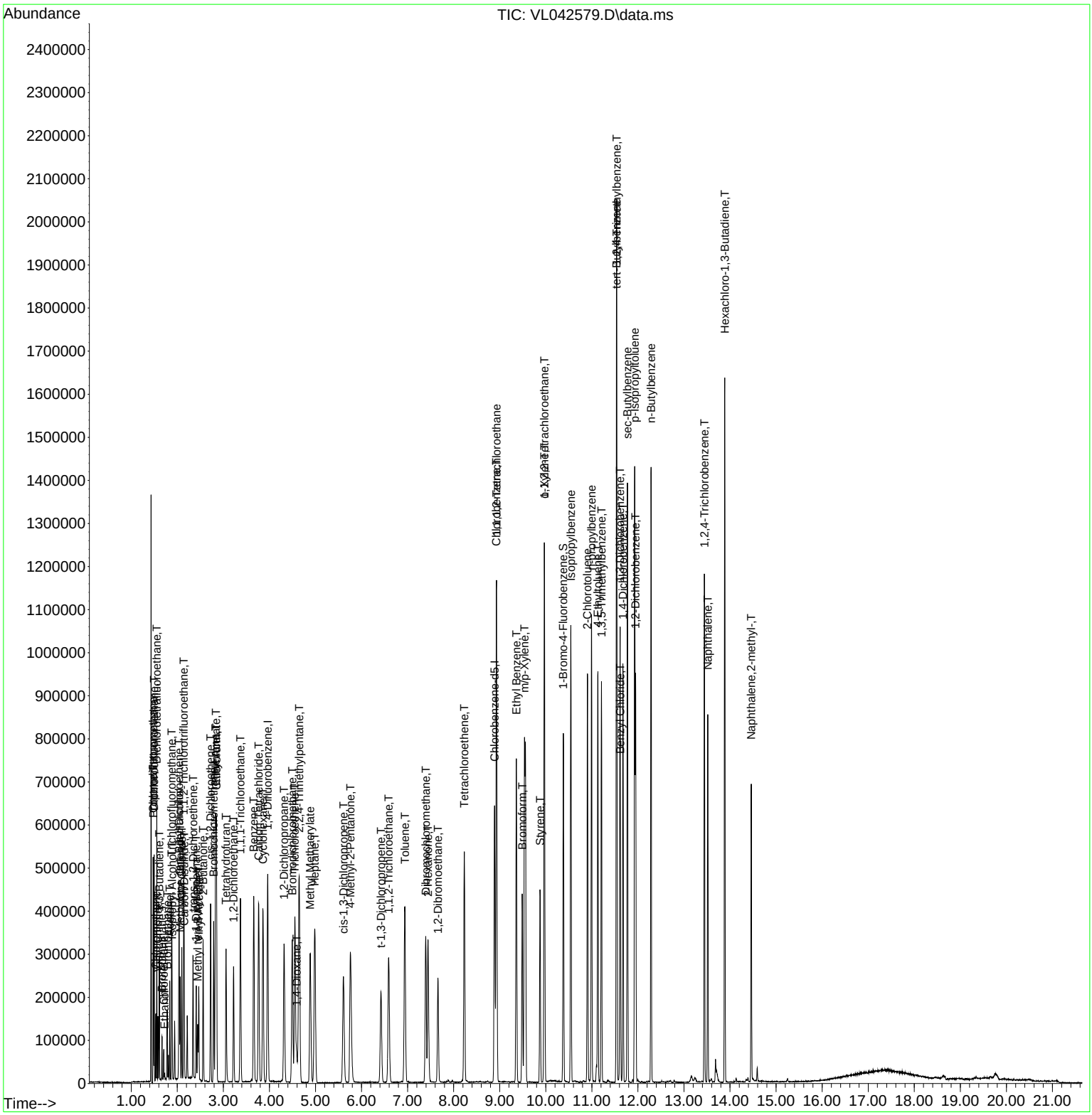
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042579.D
Acq On : 29 May 2025 11:09
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:16:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042580.D
Acq On : 29 May 2025 11:43
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:17:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	104930	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	310090	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	284199	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.380	95	210508	9.881	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	27278	2.115	ppbv		99
3) Chlorodifluoromethane	1.476	51	38320	2.157	ppbv		98
4) Chloromethane	1.534	50	10641	2.084	ppbv		98
5) Vinyl Chloride	1.580	62	9819	1.887	ppbv		98
6) Bromomethane	1.670	94	4819	1.903	ppbv		83
7) Chloroethane	1.706	64	4162	2.059	ppbv	#	85
8) Dichlorotetrafluoroethane	1.554	85	22568	2.100	ppbv		98
9) Propene	1.483	41	15155	2.119	ppbv		96
10) Heptane	4.988	43	41577	2.060	ppbv		97
11) Trichlorofluoromethane	1.878	101	25215	2.101	ppbv		94
12) 1,1,2-Trichlorotrifluo...	2.143	101	19963	2.119	ppbv		99
13) Ethanol	1.722	45	1925m	2.411	ppbv		
14) Bromoethene	1.784	108	7607	2.146	ppbv	#	94
15) Acetone	1.839	43	27254	2.156	ppbv		100
16) 1,3-Butadiene	1.609	39	12523	2.092	ppbv		95
17) tert-Butyl alcohol	2.046	59	26842	2.039	ppbv		96
18) 1,1-Dichloroethene	2.036	96	9179	2.094	ppbv		95
19) Isopropyl Alcohol	1.887	45	15567	2.060	ppbv	#	43
20) Methylene Chloride	2.062	84	8763	2.101	ppbv		95
21) Allyl Chloride	2.098	41	18178	2.038	ppbv		91
22) trans-1,2-Dichloroethene	2.344	96	9775	1.998	ppbv		97
23) Vinyl Acetate	2.467	43	35373	2.070	ppbv	#	96
24) 1,1-Dichloroethane	2.412	63	21077	2.100	ppbv		98
25) Ethyl Acetate	2.842	43	71613	2.070	ppbv		99
26) Hexane	2.829	57	32018	2.037	ppbv		97
27) Carbon Disulfide	2.153	76	25143	2.084	ppbv	#	62
28) Methyl tert-Butyl Ether	2.444	73	13034	2.044	ppbv	#	90
29) Chloroform	2.852	83	42693	2.089	ppbv		93
30) Cyclohexane	3.858	84	27030	2.075	ppbv		96
31) cis-1,2-Dichloroethene	2.726	61	30737	2.138	ppbv		93
32) 1,1,1-Trichloroethane	3.373	97	42588	2.077	ppbv		99
34) 2-Butanone	2.564	43	46279	2.093	ppbv		100
35) Carbon Tetrachloride	3.768	117	41545	2.029	ppbv		95
36) Benzene	3.661	78	63709	2.086	ppbv		96
37) 1,2-Dichloroethane	3.221	62	31831	2.097	ppbv		97
38) Trichloroethene	4.554	130	27139	2.075	ppbv		95
39) 1,2-Dichloropropane	4.321	63	23145	2.050	ppbv		98
40) 1,4-Dioxane	4.603	88	10426m	2.173	ppbv		
41) Tetrahydrofuran	3.062	42	26391	2.039	ppbv		96
42) Bromodichloromethane	4.496	83	44705	2.074	ppbv		90
43) Methyl Methacrylate	4.894	69	25156m	2.126	ppbv		
44) 2,2,4-Trimethylpentane	4.648	57	109446	2.097	ppbv		100
45) t-1,3-Dichloropropene	6.432	75	28273m	2.085	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042580.D
Acq On : 29 May 2025 11:43
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:17:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	34445	2.027	ppbv		98
47) 1,1,2-Trichloroethane	6.590	97	24455	2.092	ppbv		94
48) Dibromochloromethane	7.396	129	39361	2.103	ppbv		99
49) Bromoform	9.487	173	34270	2.122	ppbv		98
50) 4-Methyl-2-Pentanone	5.771	43	62167	2.018	ppbv		99
51) 2-Hexanone	7.451	43	51074	2.100	ppbv	#	97
52) Tetrachloroethene	8.234	164	24205	2.121	ppbv		95
53) Toluene	6.940	91	74240	2.104	ppbv		99
54) 1,2-Dibromoethane	7.661	107	35750	2.063	ppbv		94
56) 1,1,1,2-Tetrachloroethane	8.933	131	30026	2.101	ppbv		97
57) Chlorobenzene	8.930	112	57617	2.088	ppbv		95
58) Ethyl Benzene	9.361	91	104171	2.161	ppbv		96
59) m/p-Xylene	9.558	91	162694m	4.288	ppbv		
60) o-Xylene	9.969	91	81886	2.164	ppbv		97
61) Styrene	9.879	104	38542	2.154	ppbv		99
62) Isopropylbenzene	10.545	105	120576	2.157	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.969	83	48590	2.020	ppbv		99
64) n-propylbenzene	10.995	120	32406	2.163	ppbv		100
65) tert-Butylbenzene	11.536	119	110380	2.176	ppbv		99
66) Benzyl Chloride	11.620	91	14327	2.190	ppbv		98
67) sec-Butylbenzene	11.772	105	153401	2.151	ppbv		99
69) p-Isopropyltoluene	11.931	119	130647	2.188	ppbv		99
70) n-Butylbenzene	12.287	91	130662	2.216	ppbv		100
71) 2-Chlorotoluene	10.908	91	90725	2.128	ppbv		99
72) 4-Ethyltoluene	11.128	105	103640	2.197	ppbv		98
73) 1,3,5-Trimethylbenzene	11.209	105	83829	2.147	ppbv		100
74) 1,2,4-Trimethylbenzene	11.542	105	94716	2.186	ppbv		98
75) 1,3-Dichlorobenzene	11.610	146	59138	2.174	ppbv		98
76) 1,4-Dichlorobenzene	11.675	146	58920	2.171	ppbv		99
77) 1,2-Dichlorobenzene	11.953	146	58400	2.212	ppbv		96
78) Hexachloro-1,3-Butadiene	13.885	225	49999	2.288	ppbv		98
79) Naphthalene	13.517	128	101451	2.494	ppbv		98
80) Naphthalene,2-methyl-	14.462	142	44376	2.408	ppbv		99
81) 1,2,4-Trichlorobenzene	13.445	180	53653	2.353	ppbv		97

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

Quantitation Report (QT Reviewed)

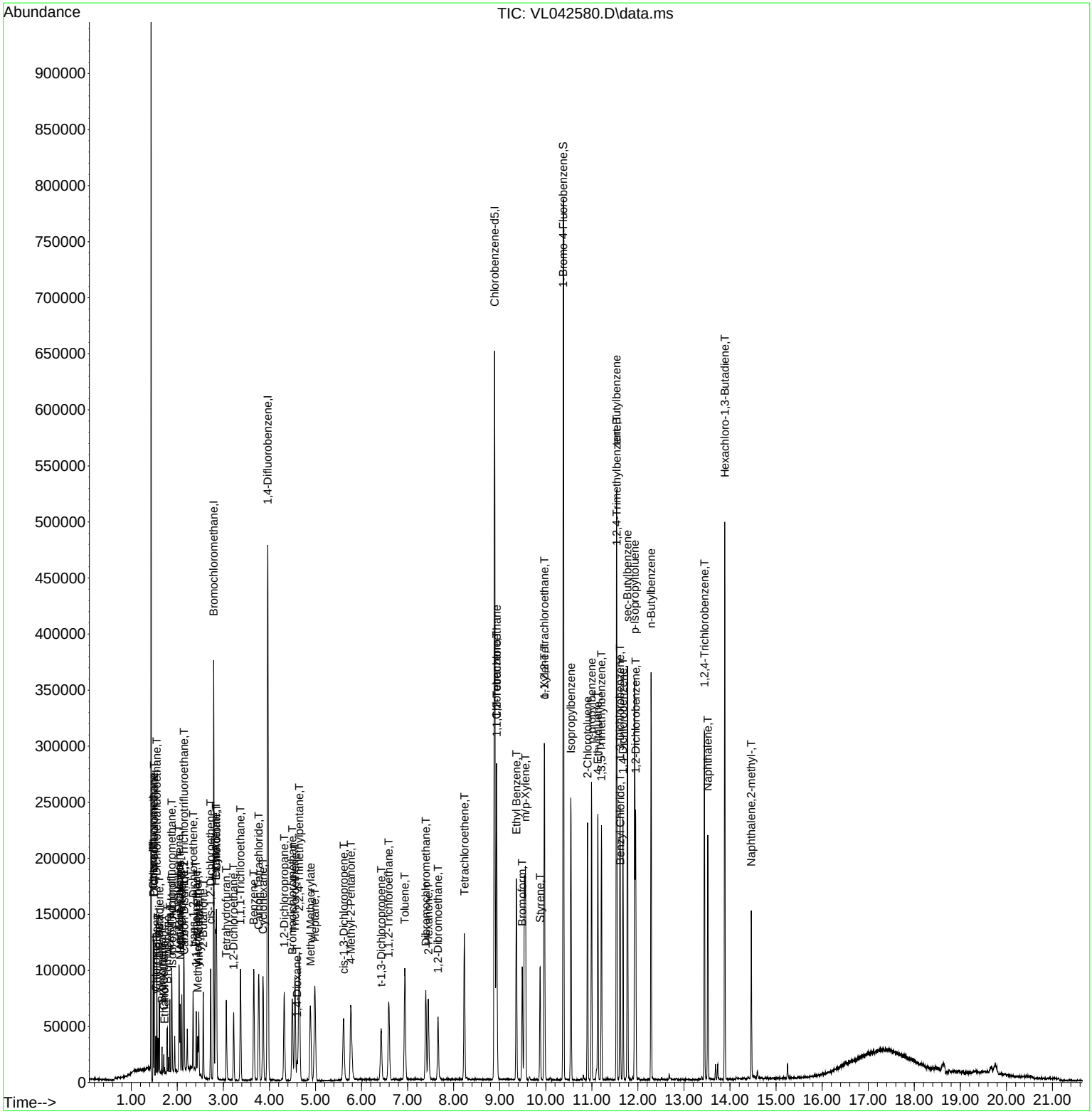
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042580.D
Acq On : 29 May 2025 11:43
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:17:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042581.D
Acq On : 29 May 2025 12:15
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:18:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.787	49	101864	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.959	114	307159	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.885	117	279402	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.377	95	209886	10.021	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	13779	1.101	ppbv		95
3) Chlorodifluoromethane	1.476	51	18960	1.100	ppbv		99
4) Chloromethane	1.531	50	5387	1.087	ppbv		89
5) Vinyl Chloride	1.580	62	4964	0.983	ppbv		99
6) Bromomethane	1.667	94	2560	1.041	ppbv		99
7) Chloroethane	1.703	64	2164	1.103	ppbv	#	84
8) Dichlorotetrafluoroethane	1.554	85	11182	1.072	ppbv		98
9) Propene	1.483	41	7413	1.068	ppbv		97
10) Heptane	4.981	43	21213m	1.083	ppbv		
11) Trichlorofluoromethane	1.878	101	12319	1.058	ppbv		95
12) 1,1,2-Trichlorotrifluo...	2.136	101	9979	1.091	ppbv		98
13) Ethanol	1.722	45	968	1.249	ppbv	#	61
14) Bromoethene	1.780	108	3524	1.024	ppbv	#	97
15) Acetone	1.835	43	15114	1.232	ppbv		98
16) 1,3-Butadiene	1.609	39	6483	1.115	ppbv		92
17) tert-Butyl alcohol	2.043	59	13587	1.063	ppbv	#	83
18) 1,1-Dichloroethene	2.036	96	4598	1.080	ppbv		85
19) Isopropyl Alcohol	1.887	45	7964	1.086	ppbv	#	38
20) Methylene Chloride	2.062	84	4654	1.149	ppbv		98
21) Allyl Chloride	2.094	41	9378	1.083	ppbv	#	83
22) trans-1,2-Dichloroethene	2.340	96	5269	1.109	ppbv		98
23) Vinyl Acetate	2.463	43	16945	1.022	ppbv	#	96
24) 1,1-Dichloroethane	2.408	63	10651	1.093	ppbv	#	98
25) Ethyl Acetate	2.839	43	36518	1.088	ppbv		99
26) Hexane	2.826	57	16686	1.094	ppbv		99
27) Carbon Disulfide	2.149	76	12910	1.102	ppbv	#	22
28) Methyl tert-Butyl Ether	2.441	73	7064	1.141	ppbv		93
29) Chloroform	2.849	83	21594	1.088	ppbv		100
30) Cyclohexane	3.858	84	13889	1.098	ppbv		96
31) cis-1,2-Dichloroethene	2.722	61	14880	1.066	ppbv		89
32) 1,1,1-Trichloroethane	3.370	97	20811	1.045	ppbv		97
34) 2-Butanone	2.560	43	23148	1.057	ppbv		99
35) Carbon Tetrachloride	3.765	117	21013	1.036	ppbv		89
36) Benzene	3.658	78	32310	1.068	ppbv		99
37) 1,2-Dichloroethane	3.218	62	15623	1.039	ppbv		97
38) Trichloroethene	4.551	130	13969	1.078	ppbv		98
39) 1,2-Dichloropropane	4.321	63	11488	1.027	ppbv		87
40) 1,4-Dioxane	4.600	88	5479m	1.153	ppbv		
41) Tetrahydrofuran	3.062	42	13711	1.069	ppbv		99
42) Bromodichloromethane	4.490	83	22628	1.060	ppbv	#	96
43) Methyl Methacrylate	4.884	69	11810	1.007	ppbv		97
44) 2,2,4-Trimethylpentane	4.645	57	56202m	1.087	ppbv		
45) t-1,3-Dichloropropene	6.415	75	13988m	1.041	ppbv		

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042581.D
Acq On : 29 May 2025 12:15
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:18:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.600	75	17453m	1.037	ppbv		
47)	1,1,2-Trichloroethane	6.587	97	12328m	1.065	ppbv		
48)	Dibromochloromethane	7.393	129	19719	1.064	ppbv		99
49)	Bromoform	9.484	173	15937	0.996	ppbv		96
50)	4-Methyl-2-Pentanone	5.765	43	31646	1.037	ppbv		99
51)	2-Hexanone	7.445	43	25135	1.043	ppbv	#	96
52)	Tetrachloroethene	8.228	164	11770	1.041	ppbv		97
53)	Toluene	6.936	91	36540	1.045	ppbv		97
54)	1,2-Dibromoethane	7.658	107	18114	1.055	ppbv		96
56)	1,1,1,2-Tetrachloroethane	8.927	131	14971	1.066	ppbv		95
57)	Chlorobenzene	8.927	112	28714	1.058	ppbv		100
58)	Ethyl Benzene	9.357	91	49899	1.053	ppbv		96
59)	m/p-Xylene	9.535	91	78893m	2.115	ppbv		
60)	o-Xylene	9.966	91	39398	1.059	ppbv		99
61)	Styrene	9.875	104	18371	1.045	ppbv		100
62)	Isopropylbenzene	10.542	105	59492	1.083	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.966	83	24057	1.017	ppbv		99
64)	n-propylbenzene	10.992	120	15107	1.026	ppbv		90
65)	tert-Butylbenzene	11.532	119	53720	1.077	ppbv		99
66)	Benzyl Chloride	11.617	91	6617	1.029	ppbv		98
67)	sec-Butylbenzene	11.769	105	76631	1.093	ppbv		100
69)	p-Isopropyltoluene	11.927	119	62849	1.070	ppbv		100
70)	n-Butylbenzene	12.283	91	63350	1.093	ppbv		99
71)	2-Chlorotoluene	10.901	91	45250	1.080	ppbv		99
72)	4-Ethyltoluene	11.128	105	50214	1.083	ppbv		99
73)	1,3,5-Trimethylbenzene	11.206	105	41412	1.079	ppbv		100
74)	1,2,4-Trimethylbenzene	11.536	105	46810	1.099	ppbv	#	90
75)	1,3-Dichlorobenzene	11.610	146	28889	1.080	ppbv		99
76)	1,4-Dichlorobenzene	11.675	146	29060	1.089	ppbv		98
77)	1,2-Dichlorobenzene	11.950	146	28176	1.085	ppbv		97
78)	Hexachloro-1,3-Butadiene	13.882	225	24950	1.162	ppbv		98
79)	Naphthalene	13.517	128	45649	1.141	ppbv	#	94
80)	Naphthalene,2-methyl-	14.458	142	15700	0.866	ppbv		96
81)	1,2,4-Trichlorobenzene	13.442	180	24843	1.108	ppbv		97

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

Quantitation Report (QT Reviewed)

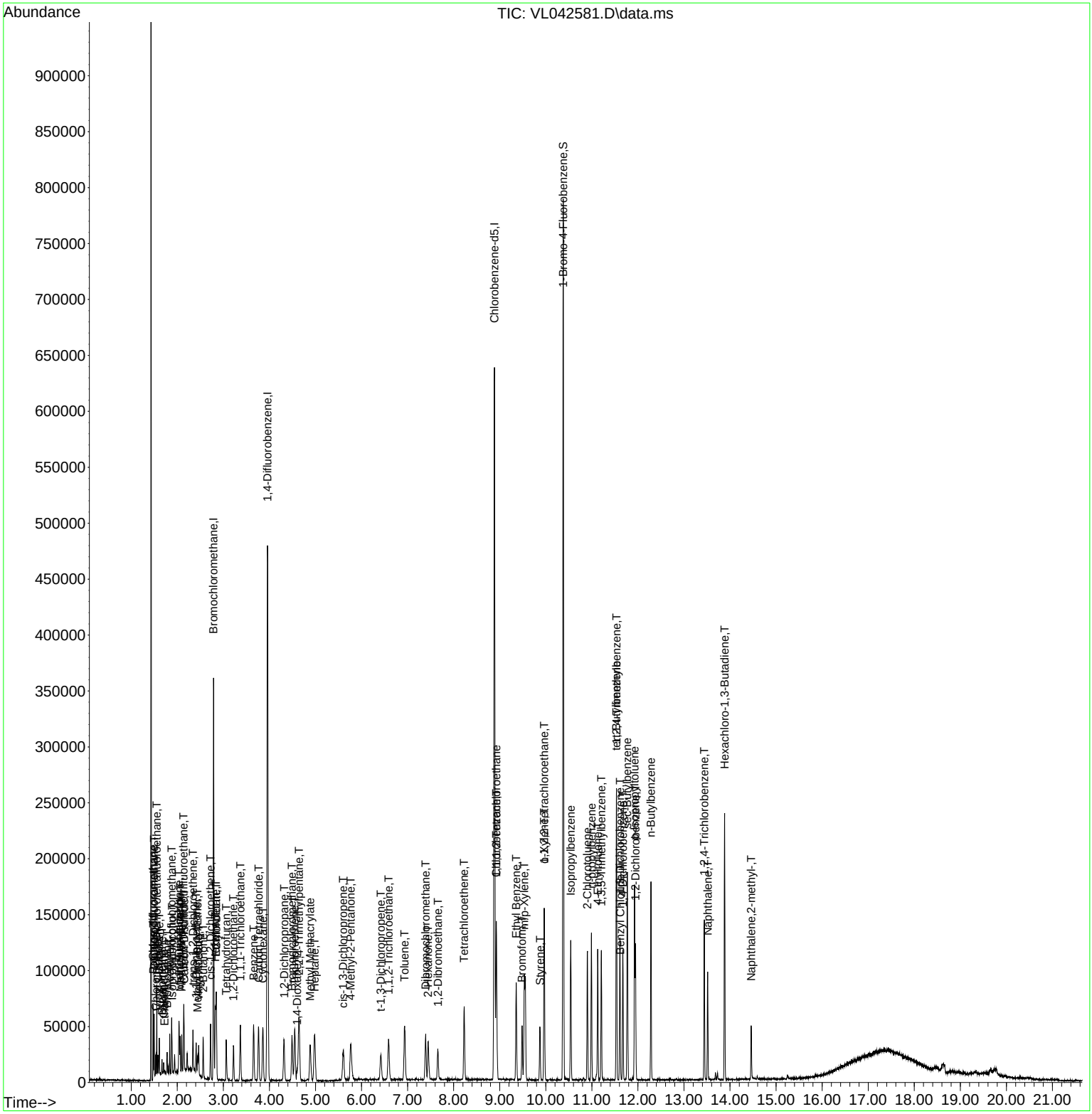
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042581.D
Acq On : 29 May 2025 12:15
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:18:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042582.D
Acq On : 29 May 2025 12:47
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:19:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	102909	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	304613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276104	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	208325	10.065	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	6470	0.512	ppbv	98
3) Chlorodifluoromethane	1.476	51	9678	0.556	ppbv	96
4) Chloromethane	1.531	50	2584	0.516	ppbv	97
5) Vinyl Chloride	1.580	62	2721	0.533	ppbv	96
6) Bromomethane	1.667	94	1594	0.642	ppbv #	74
7) Chloroethane	1.706	64	1099	0.554	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	5655	0.537	ppbv	97
9) Propene	1.483	41	3653	0.521	ppbv	87
10) Heptane	4.988	43	10697	0.540	ppbv	98
11) Trichlorofluoromethane	1.878	101	6138	0.522	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.140	101	4647	0.503	ppbv	89
13) Ethanol	1.722	45	586m	0.748	ppbv	
14) Bromoethene	1.781	108	1849	0.532	ppbv #	84
15) Acetone	1.836	43	7225	0.583	ppbv	95
16) 1,3-Butadiene	1.609	39	3340	0.569	ppbv	89
17) tert-Butyl alcohol	2.046	59	6877	0.533	ppbv #	92
18) 1,1-Dichloroethene	2.036	96	2319	0.539	ppbv #	73
19) Isopropyl Alcohol	1.887	45	4245	0.573	ppbv #	44
20) Methylene Chloride	2.062	84	2435	0.595	ppbv	93
21) Allyl Chloride	2.098	41	4754	0.544	ppbv	96
22) trans-1,2-Dichloroethene	2.341	96	2553	0.532	ppbv	93
23) Vinyl Acetate	2.464	43	9005	0.537	ppbv #	86
24) 1,1-Dichloroethane	2.409	63	5127	0.521	ppbv #	89
25) Ethyl Acetate	2.842	43	17990	0.530	ppbv	98
26) Hexane	2.826	57	8694	0.564	ppbv	96
27) Carbon Disulfide	2.153	76	6043	0.511	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3416	0.546	ppbv #	81
29) Chloroform	2.849	83	10798	0.539	ppbv	98
30) Cyclohexane	3.855	84	6784m	0.531	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	7302	0.518	ppbv	97
32) 1,1,1-Trichloroethane	3.367	97	10309	0.513	ppbv	98
34) 2-Butanone	2.564	43	11569	0.533	ppbv	99
35) Carbon Tetrachloride	3.761	117	10126	0.503	ppbv	92
36) Benzene	3.661	78	16000	0.533	ppbv	95
37) 1,2-Dichloroethane	3.224	62	7883	0.529	ppbv	98
38) Trichloroethene	4.554	130	7126	0.555	ppbv	92
39) 1,2-Dichloropropane	4.318	63	6317m	0.570	ppbv	
40) 1,4-Dioxane	4.609	88	2618m	0.555	ppbv	
41) Tetrahydrofuran	3.066	42	6775	0.533	ppbv	96
42) Bromodichloromethane	4.490	83	10688	0.505	ppbv	94
43) Methyl Methacrylate	4.888	69	6056	0.521	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	27584	0.538	ppbv	96
45) t-1,3-Dichloropropene	6.422	75	6598	0.495	ppbv	92

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042582.D
Acq On : 29 May 2025 12:47
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:19:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	8637m	0.518	ppbv		
47) 1,1,2-Trichloroethane	6.584	97	6189m	0.539	ppbv		
48) Dibromochloromethane	7.399	129	9133m	0.497	ppbv		
49) Bromoform	9.484	173	7974	0.503	ppbv		98
50) 4-Methyl-2-Pentanone	5.771	43	15782m	0.522	ppbv		
51) 2-Hexanone	7.451	43	11458	0.479	ppbv	#	98
52) Tetrachloroethene	8.231	164	5950	0.531	ppbv		87
53) Toluene	6.940	91	18429	0.532	ppbv		100
54) 1,2-Dibromoethane	7.655	107	8810	0.518	ppbv		82
56) 1,1,1,2-Tetrachloroethane	8.934	131	7178	0.517	ppbv		89
57) Chlorobenzene	8.930	112	14920	0.557	ppbv		89
58) Ethyl Benzene	9.358	91	24442	0.522	ppbv		88
59) m/p-Xylene	9.555	91	38955m	1.057	ppbv		
60) o-Xylene	9.966	91	19745	0.537	ppbv		99
61) Styrene	9.875	104	8639	0.497	ppbv		99
62) Isopropylbenzene	10.545	105	28442	0.524	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.969	83	12137	0.519	ppbv		97
64) n-propylbenzene	10.995	120	7993	0.549	ppbv		97
65) tert-Butylbenzene	11.533	119	26856	0.545	ppbv		99
66) Benzyl Chloride	11.614	91	2753m	0.433	ppbv		
67) sec-Butylbenzene	11.769	105	37899	0.547	ppbv		98
69) p-Isopropyltoluene	11.931	119	30931	0.533	ppbv		99
70) n-Butylbenzene	12.284	91	29130	0.509	ppbv		98
71) 2-Chlorotoluene	10.905	91	22135	0.534	ppbv		100
72) 4-Ethyltoluene	11.128	105	23521	0.513	ppbv		97
73) 1,3,5-Trimethylbenzene	11.206	105	19891	0.524	ppbv		86
74) 1,2,4-Trimethylbenzene	11.536	105	22635	0.538	ppbv	#	83
75) 1,3-Dichlorobenzene	11.610	146	14232	0.538	ppbv		98
76) 1,4-Dichlorobenzene	11.675	146	13773	0.522	ppbv		98
77) 1,2-Dichlorobenzene	11.950	146	14062	0.548	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	12036	0.567	ppbv		97
79) Naphthalene	13.517	128	18853	0.477	ppbv		96
80) Naphthalene,2-methyl-	14.462	142	6126	0.342	ppbv		98
81) 1,2,4-Trichlorobenzene	13.442	180	9879	0.446	ppbv		99

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

Quantitation Report (QT Reviewed)

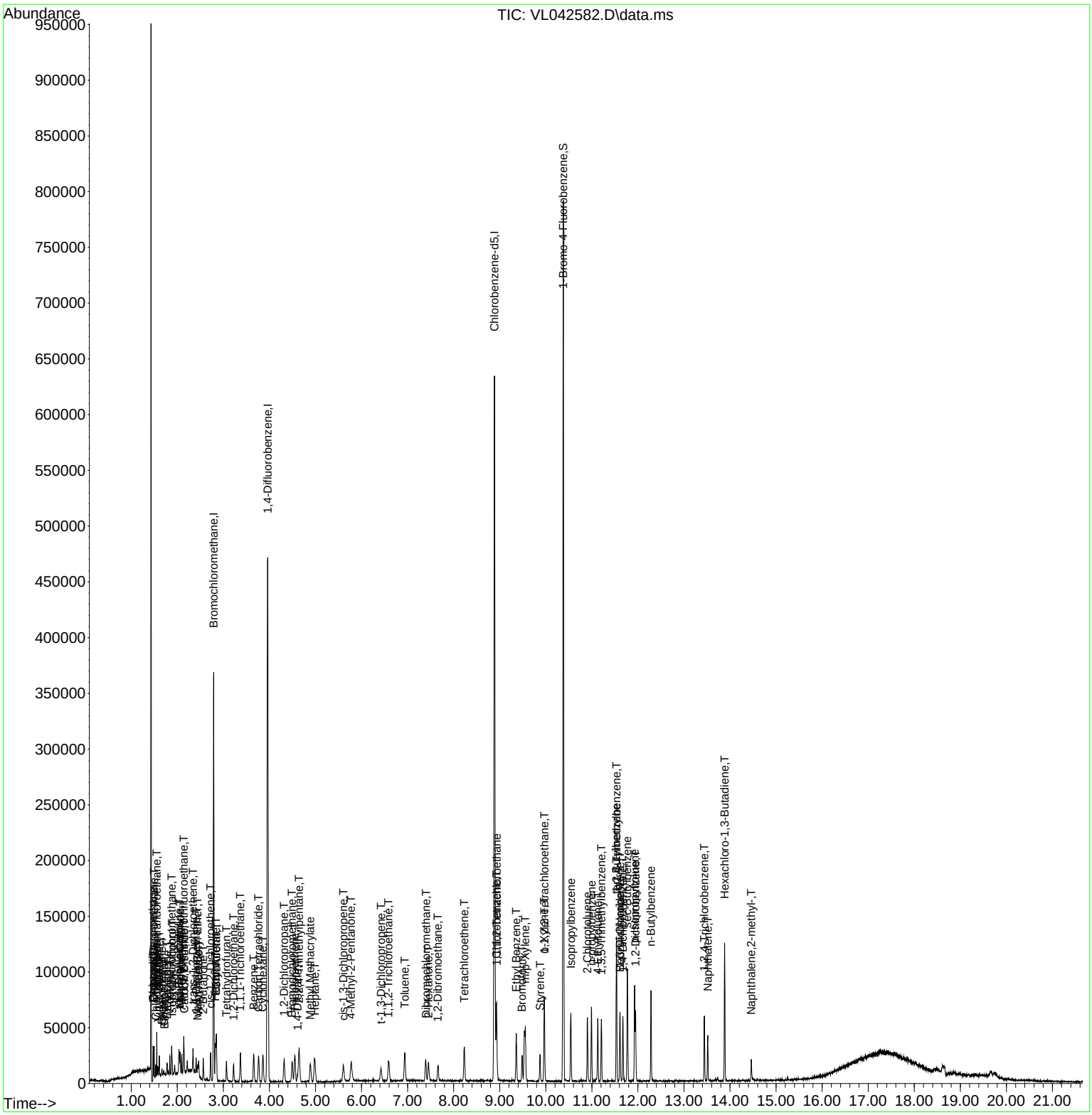
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042582.D
Acq On : 29 May 2025 12:47
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:19:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	103370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	302218	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	205672	10.018	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.200%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.580	62	481	0.094	ppbv #	31
32) 1,1,1-Trichloroethane	3.373	97	2153	0.107	ppbv	90
35) Carbon Tetrachloride	3.768	117	2135	0.107	ppbv #	76
38) Trichloroethene	4.548	130	1305m	0.102	ppbv	
52) Tetrachloroethene	8.238	164	1230m	0.111	ppbv	
54) 1,2-Dibromoethane	7.658	107	1737m	0.103	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	2267	0.098	ppbv	96
79) Naphthalene	13.523	128	2980m	0.076	ppbv	

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

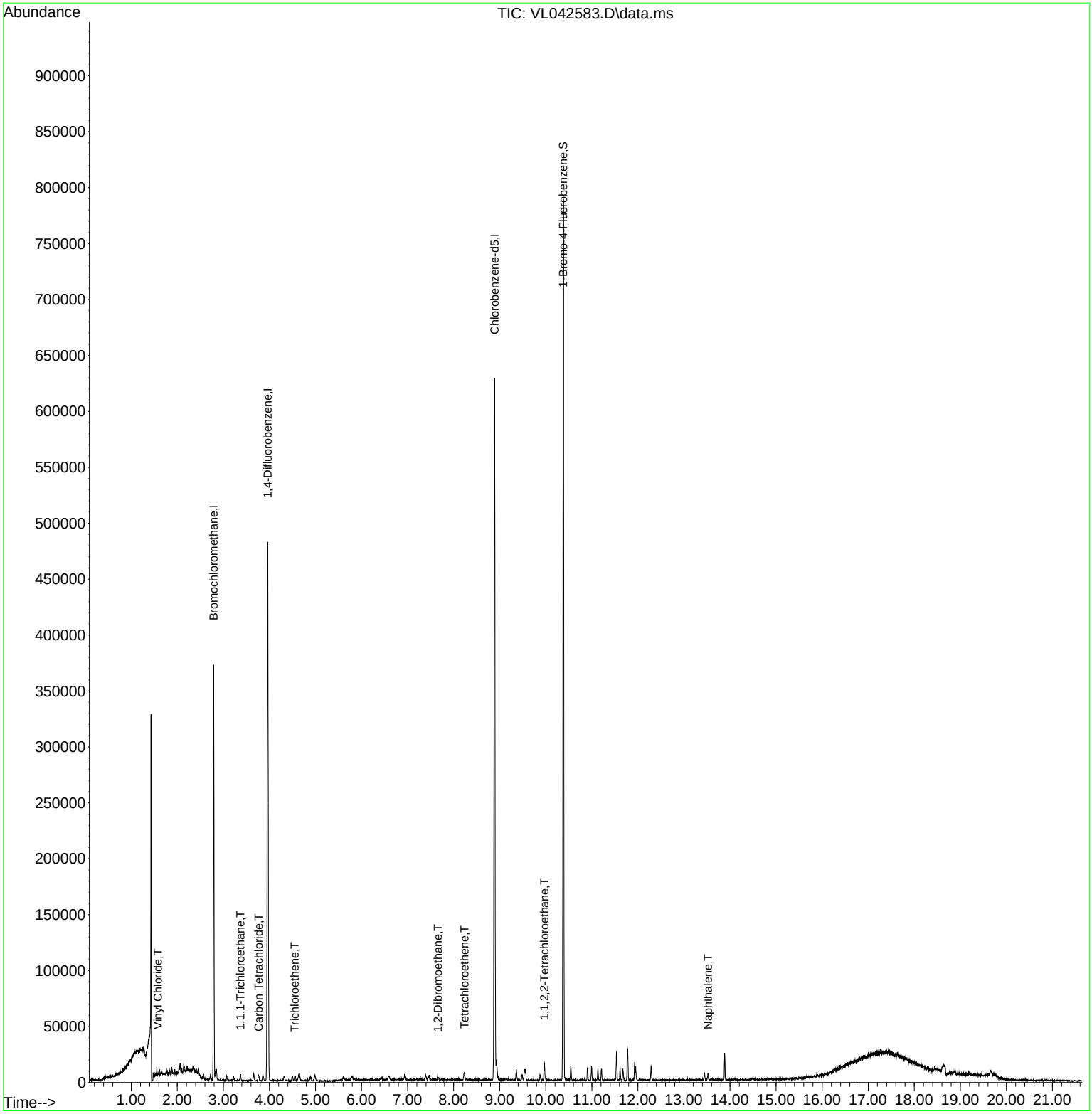
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	103144	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	305114	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	205981	10.033	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.577	62	209	0.041	ppbv	# 77
32) 1,1,1-Trichloroethane	3.373	97	683m	0.034	ppbv	
35) Carbon Tetrachloride	3.764	117	623m	0.031	ppbv	
38) Trichloroethene	4.541	130	356m	0.028	ppbv	
52) Tetrachloroethene	8.228	164	321m	0.029	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	866	0.037	ppbv	# 82

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

Quantitation Report (QT Reviewed)

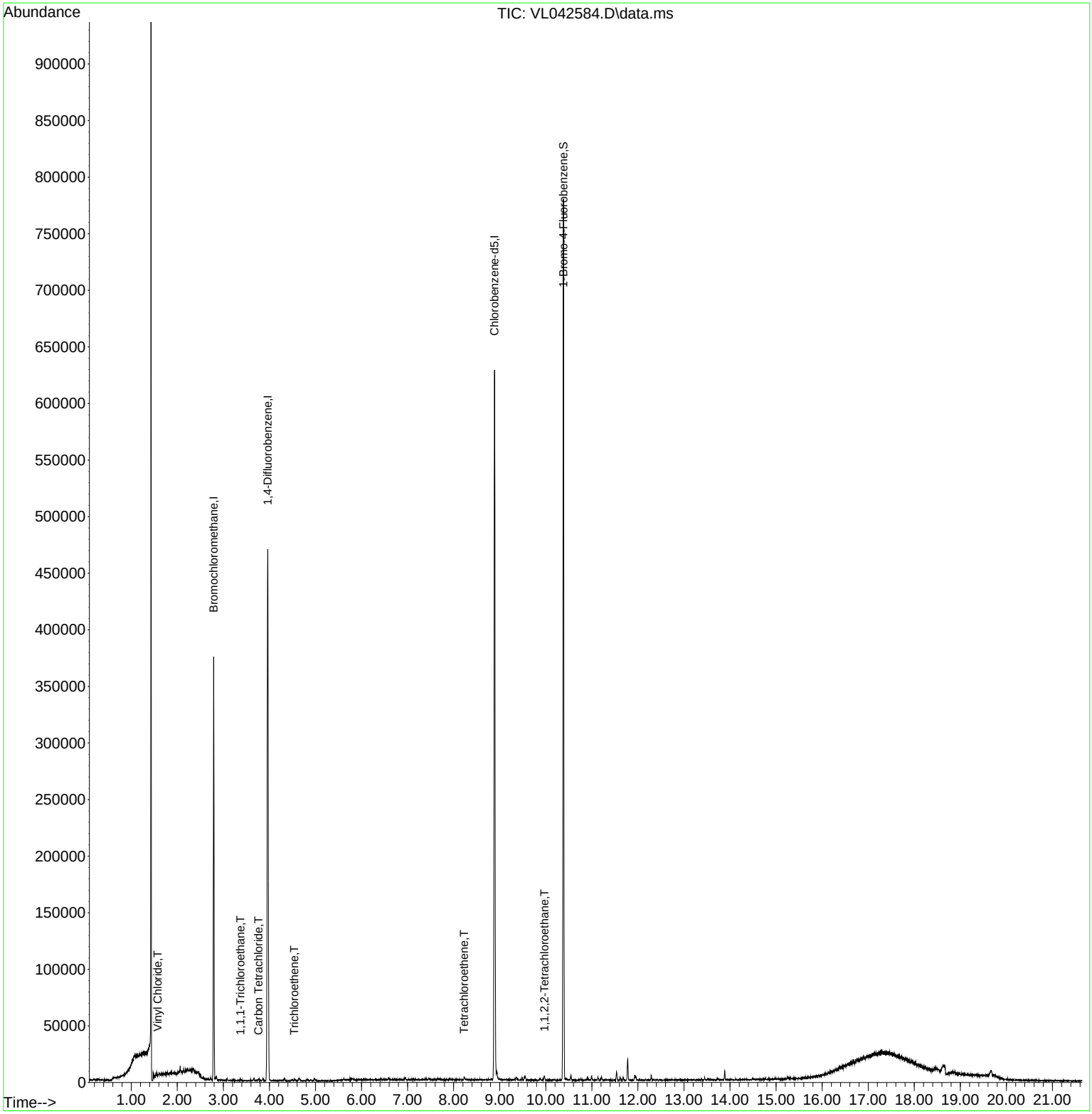
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042585.D
Acq On : 29 May 2025 14:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	103906	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	301797	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	274912	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	207170	10.053	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	171529	13.432	ppbv	98
3) Chlorodifluoromethane	1.476	51	221334	12.584	ppbv	99
4) Chloromethane	1.534	50	67662	13.380	ppbv	99
5) Vinyl Chloride	1.580	62	63738	12.373	ppbv	98
6) Bromomethane	1.667	94	31141	12.420	ppbv	100
7) Chloroethane	1.706	64	25591	12.785	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	140345	13.189	ppbv	99
9) Propene	1.483	41	93357	13.181	ppbv	97
10) Heptane	4.988	43	263111	13.165	ppbv	100
11) Trichlorofluoromethane	1.877	101	162591	13.684	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	127489	13.664	ppbv	99
13) Ethanol	1.722	45	7390m	9.346	ppbv	
14) Bromoethene	1.784	108	47382	13.501	ppbv	99
15) Acetone	1.835	43	141460	11.302	ppbv	98
16) 1,3-Butadiene	1.609	39	74743	12.607	ppbv	100
17) tert-Butyl alcohol	2.042	59	169533	13.002	ppbv	100
18) 1,1-Dichloroethene	2.036	96	56808	13.085	ppbv	99
19) Isopropyl Alcohol	1.887	45	92408	12.351	ppbv	98
20) Methylene Chloride	2.062	84	48862	11.830	ppbv	97
21) Allyl Chloride	2.097	41	116771	13.223	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	65132	13.441	ppbv	97
23) Vinyl Acetate	2.466	43	246907	14.594	ppbv	99
24) 1,1-Dichloroethane	2.411	63	129870	13.067	ppbv	99
25) Ethyl Acetate	2.839	43	457327	13.352	ppbv	99
26) Hexane	2.829	57	200386	12.876	ppbv	99
27) Carbon Disulfide	2.152	76	162143	13.571	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	79625	12.608	ppbv	100
29) Chloroform	2.852	83	269752	13.328	ppbv	98
30) Cyclohexane	3.861	84	170261	13.196	ppbv	99
31) cis-1,2-Dichloroethene	2.722	61	192562	13.526	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	276026	13.591	ppbv	99
34) 2-Butanone	2.560	43	294628	13.689	ppbv	99
35) Carbon Tetrachloride	3.768	117	277042	13.903	ppbv	98
36) Benzene	3.661	78	404641	13.615	ppbv	99
37) 1,2-Dichloroethane	3.221	62	208081	14.088	ppbv	100
38) Trichloroethene	4.551	130	168824	13.263	ppbv	91
39) 1,2-Dichloropropane	4.318	63	149476	13.606	ppbv	98
40) 1,4-Dioxane	4.590	88	65543	14.035	ppbv #	98
41) Tetrahydrofuran	3.056	42	173023	13.734	ppbv	99
42) Bromodichloromethane	4.493	83	298835	14.245	ppbv	96
43) Methyl Methacrylate	4.887	69	161641	14.033	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	676574	13.319	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	189257	14.338	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042585.D
Acq On : 29 May 2025 14:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	236653	14.313	ppbv	94
47) 1,1,2-Trichloroethane	6.590	97	153862	13.524	ppbv	93
48) Dibromochloromethane	7.393	129	258374	14.187	ppbv	100
49) Bromoform	9.490	173	226719	14.427	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	416119	13.882	ppbv	100
51) 2-Hexanone	7.441	43	339220	14.328	ppbv	98
52) Tetrachloroethene	8.231	164	145485	13.098	ppbv	99
53) Toluene	6.939	91	470632	13.702	ppbv	100
54) 1,2-Dibromoethane	7.661	107	232051	13.758	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	191145	13.828	ppbv	99
57) Chlorobenzene	8.930	112	356655	13.361	ppbv	98
58) Ethyl Benzene	9.361	91	637083	13.662	ppbv	99
59) m/p-Xylene	9.561	91	996602m	27.151	ppbv	
60) o-Xylene	9.969	91	490036	13.389	ppbv	98
61) Styrene	9.875	104	245714	14.199	ppbv	100
62) Isopropylbenzene	10.545	105	722166	13.356	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	299633	12.875	ppbv	99
64) n-propylbenzene	10.995	120	195952	13.519	ppbv	97
65) tert-Butylbenzene	11.536	119	634159	12.924	ppbv	99
66) Benzyl Chloride	11.620	91	90617	14.320	ppbv	99
67) sec-Butylbenzene	11.772	105	892638	12.939	ppbv	100
69) p-Isopropyltoluene	11.930	119	763150	13.210	ppbv	100
70) n-Butylbenzene	12.286	91	764173	13.401	ppbv	99
71) 2-Chlorotoluene	10.908	91	552265	13.390	ppbv	100
72) 4-Ethyltoluene	11.131	105	616187	13.504	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	509801	13.498	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	538704	12.854	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	347478	13.203	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	350757	13.363	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	326960	12.800	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	244375	11.563	ppbv	98
79) Naphthalene	13.516	128	563437	14.318	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	306586	17.196	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	299869	13.598	ppbv	99

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

Quantitation Report (QT Reviewed)

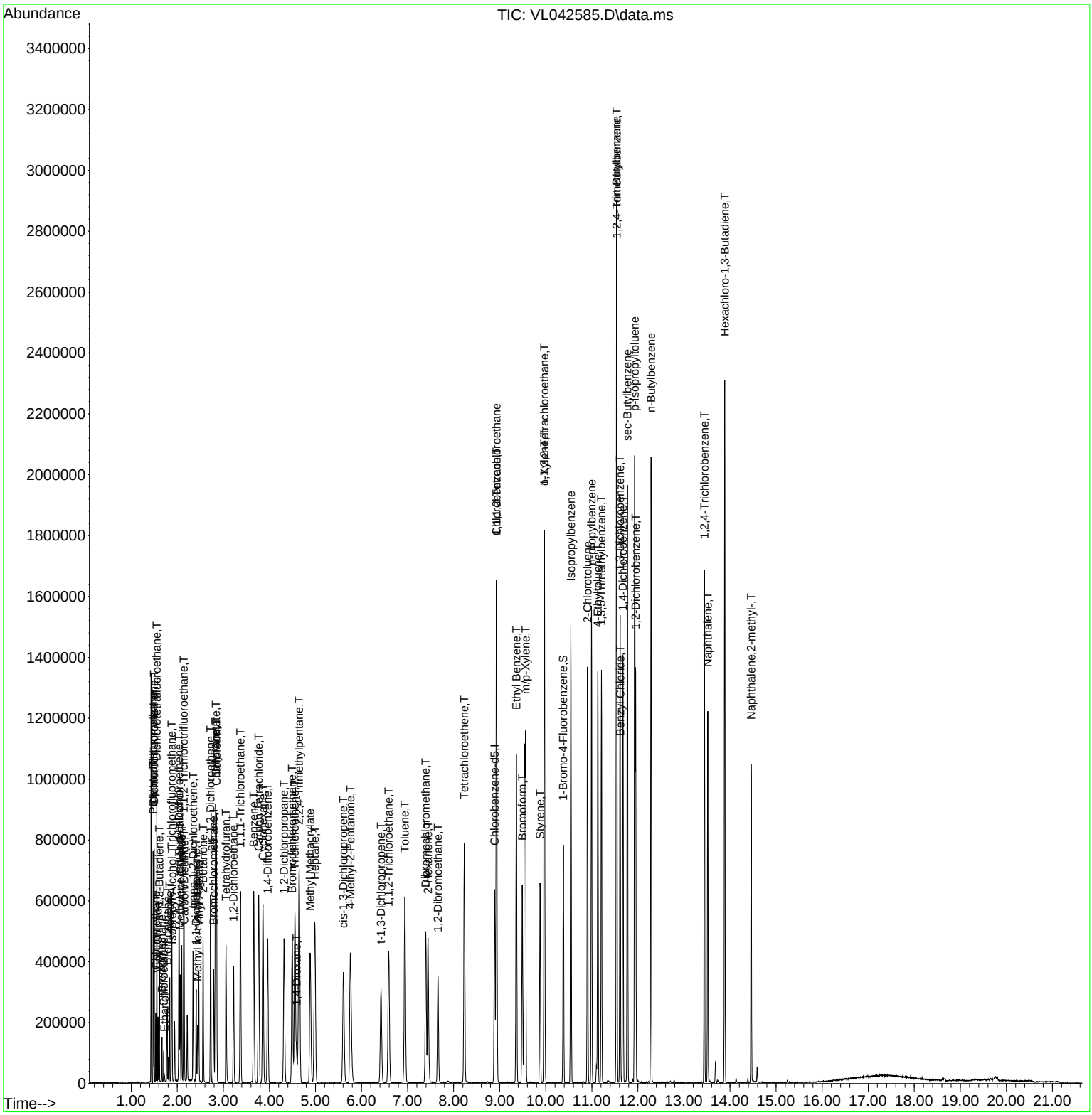
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042585.D
Acq On : 29 May 2025 14:24
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	102428	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	301054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	275875	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	203743	9.852	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	115266	9.156	ppbv	97
3) Chlorodifluoromethane	1.476	51	150107	8.658	ppbv	99
4) Chloromethane	1.534	50	45964	9.220	ppbv	99
5) Vinyl Chloride	1.583	62	43925	8.650	ppbv	98
6) Bromomethane	1.670	94	20899	8.455	ppbv	96
7) Chloroethane	1.706	64	16853	8.541	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	97812	9.325	ppbv	98
9) Propene	1.486	41	60663	8.688	ppbv	98
10) Heptane	4.991	43	179146	9.102	ppbv	99
11) Trichlorofluoromethane	1.881	101	111088	9.484	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	90493	9.839	ppbv	98
13) Ethanol	1.722	45	5315m	6.387	ppbv	
14) Bromoethene	1.783	108	31882	9.215	ppbv	97
15) Acetone	1.838	43	93713	7.596	ppbv	99
16) 1,3-Butadiene	1.612	39	51473	8.807	ppbv	98
17) tert-Butyl alcohol	2.042	59	123536	9.611	ppbv	99
18) 1,1-Dichloroethene	2.036	96	40171	9.423	ppbv	94
19) Isopropyl Alcohol	1.887	45	65635	8.899	ppbv	99
20) Methylene Chloride	2.065	84	34380	8.444	ppbv	98
21) Allyl Chloride	2.097	41	80936	9.297	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	46389	9.742	ppbv	99
23) Vinyl Acetate	2.466	43	168496	10.103	ppbv	99
24) 1,1-Dichloroethane	2.411	63	92180	9.408	ppbv	99
25) Ethyl Acetate	2.839	43	309666	9.171	ppbv	99
26) Hexane	2.829	57	136378	8.889	ppbv	99
27) Carbon Disulfide	2.152	76	114756	9.743	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	57913	9.302	ppbv	100
29) Chloroform	2.852	83	180696	9.057	ppbv	96
30) Cyclohexane	3.861	84	116986	9.198	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	130619	9.307	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	185017	9.077	ppbv	100
34) 2-Butanone	2.560	43	198226	9.233	ppbv	100
35) Carbon Tetrachloride	3.771	117	186286	9.374	ppbv	100
36) Benzene	3.664	78	274314	9.253	ppbv	99
37) 1,2-Dichloroethane	3.224	62	140785	9.555	ppbv	99
38) Trichloroethene	4.557	130	115086	9.133	ppbv	96
39) 1,2-Dichloropropane	4.324	63	98542	8.988	ppbv	99
40) 1,4-Dioxane	4.590	88	45655	9.306	ppbv #	99
41) Tetrahydrofuran	3.059	42	116984	9.309	ppbv	98
42) Bromodichloromethane	4.496	83	202489	9.676	ppbv	92
43) Methyl Methacrylate	4.891	69	108397	9.421	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	461095	9.093	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	125588m	9.538	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46)	cis-1,3-Dichloropropene	5.609	75	156828	9.505	ppbv	98
47)	1,1,2-Trichloroethane	6.590	97	103138	9.088	ppbv	92
48)	Dibromochloromethane	7.399	129	170606	9.391	ppbv	99
49)	Bromoform	9.493	173	152725	9.742	ppbv	99
50)	4-Methyl-2-Pentanone	5.758	43	278990	9.369	ppbv	100
51)	2-Hexanone	7.444	43	228036	9.655	ppbv	98
52)	Tetrachloroethene	8.231	164	98872	8.925	ppbv	99
53)	Toluene	6.943	91	319640	9.329	ppbv	99
54)	1,2-Dibromoethane	7.661	107	157298	9.364	ppbv	99
56)	1,1,1,2-Tetrachloroethane	8.933	131	127601	9.199	ppbv	97
57)	Chlorobenzene	8.930	112	242533	9.054	ppbv	97
58)	Ethyl Benzene	9.364	91	432250	9.237	ppbv	97
59)	m/p-Xylene	9.558	91	676743m	18.377	ppbv	
60)	o-Xylene	9.972	91	333107	9.069	ppbv	100
61)	Styrene	9.878	104	163167	9.396	ppbv	100
62)	Isopropylbenzene	10.545	105	491107	9.051	ppbv	100
63)	1,1,2,2-Tetrachloroethane	9.969	83	204322	8.749	ppbv	100
64)	n-propylbenzene	10.995	120	131695	9.054	ppbv	100
65)	tert-Butylbenzene	11.539	119	431251	8.758	ppbv	98
66)	Benzyl Chloride	11.620	91	59801	9.435	ppbv	100
67)	sec-Butylbenzene	11.772	105	607905	8.781	ppbv	99
69)	p-Isopropyltoluene	11.930	119	512739	8.844	ppbv	100
70)	n-Butylbenzene	12.286	91	514931	8.998	ppbv	100
71)	2-Chlorotoluene	10.908	91	377413	9.119	ppbv	99
72)	4-Ethyltoluene	11.131	105	412686	9.012	ppbv	99
73)	1,3,5-Trimethylbenzene	11.209	105	346043	9.131	ppbv	98
74)	1,2,4-Trimethylbenzene	11.542	105	371879	8.842	ppbv	94
75)	1,3-Dichlorobenzene	11.613	146	234703	8.886	ppbv	99
76)	1,4-Dichlorobenzene	11.678	146	237978	9.034	ppbv	99
77)	1,2-Dichlorobenzene	11.953	146	224400	8.754	ppbv	99
78)	Hexachloro-1,3-Butadiene	13.885	225	169185	7.977	ppbv	99
79)	Naphthalene	13.516	128	383192	9.666	ppbv	99
80)	Naphthalene,2-methyl-	14.461	142	194375	10.853	ppbv	99
81)	1,2,4-Trichlorobenzene	13.445	180	198696	8.978	ppbv	98

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

Quantitation Report (QT Reviewed)

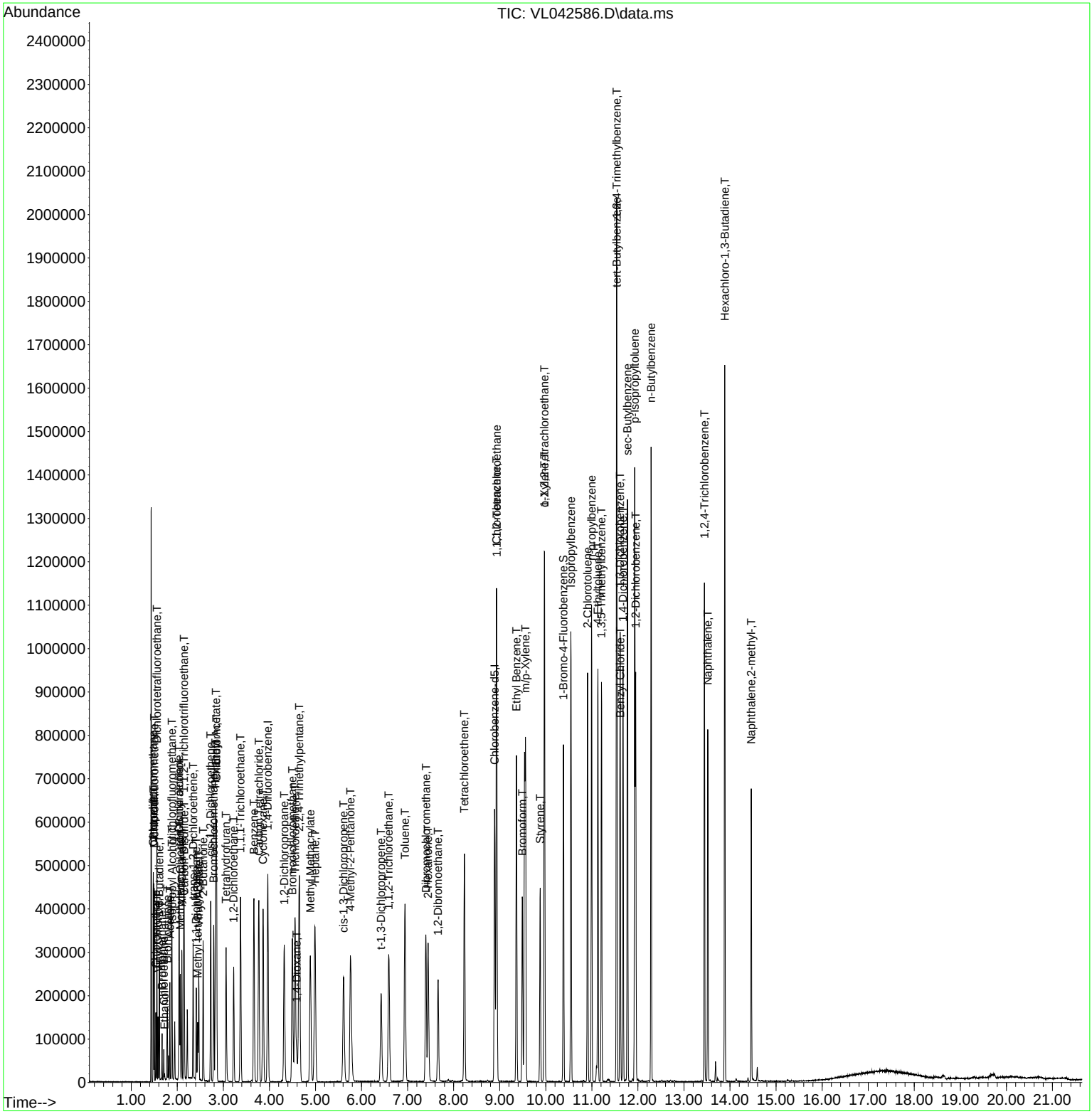
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 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	1.229	1.125	8.5	99	0.00
3		Chlorodifluoromethane	1.693	1.465	13.5	99	0.00
4		Chloromethane	0.487	0.449	7.8	97	0.00
5	T	Vinyl Chloride	0.496	0.429	13.5	98	0.00
6	T	Bromomethane	0.241	0.204	15.4	94	0.00
7		Chloroethane	0.193	0.165	14.5	94	0.00
8	T	Dichlorotetrafluoroethane	1.024	0.955	6.7	100	0.00
9	T	Propene	0.682	0.592	13.2	91	0.00
10	T	Heptane	1.921	1.749	9.0	98	0.00
11	T	Trichlorofluoromethane	1.144	1.085	5.2	101	0.00
12	T	1,1,2-Trichlorotrifluoroeth	0.898	0.883	1.7	105	0.00
13		Ethanol	0.081	0.052	35.8#	89	0.00
14	T	Bromoethene	0.338	0.311	8.0	98	0.00
15	T	Acetone	1.205	0.915	24.1	98	0.00
16	T	1,3-Butadiene	0.571	0.503	11.9	102	0.00
17		tert-Butyl alcohol	1.255	1.206	3.9	97	0.00
18	T	1,1-Dichloroethene	0.416	0.392	5.8	104	0.00
19	T	Isopropyl Alcohol	0.720	0.641	11.0	97	0.00
20	T	Methylene Chloride	0.398	0.336	15.6	102	0.00
21	T	Allyl Chloride	0.850	0.790	7.1	100	0.00
22	T	trans-1,2-Dichloroethene	0.465	0.453	2.6	106	0.00
23	T	Vinyl Acetate	1.628	1.645	-1.0	112	0.00
24	T	1,1-Dichloroethane	0.957	0.900	6.0	99	0.00
25	T	Ethyl Acetate	3.296	3.023	8.3	99	0.00
26	T	Hexane	1.498	1.331	11.1	98	0.00
27	T	Carbon Disulfide	1.150	1.120	2.6	104	0.00
28	T	Methyl tert-Butyl Ether	0.608	0.565	7.1	102	0.00
29	T	Chloroform	1.948	1.764	9.4	100	0.00
30	T	Cyclohexane	1.242	1.142	8.1	99	0.00
31	T	cis-1,2-Dichloroethene	1.370	1.275	6.9	100	0.00
32	T	1,1,1-Trichloroethane	1.990	1.806	9.2	100	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
34	T	2-Butanone	0.713	0.658	7.7	98	0.00
35	T	Carbon Tetrachloride	0.660	0.619	6.2	100	0.00
36	T	Benzene	0.985	0.911	7.5	99	0.00
37	T	1,2-Dichloroethane	0.489	0.468	4.3	102	0.00
38	T	Trichloroethene	0.419	0.382	8.8	99	0.00
39	T	1,2-Dichloropropane	0.364	0.327	10.2	97	0.00
40	T	1,4-Dioxane	0.163	0.152	6.7	98	0.00
41	T	Tetrahydrofuran	0.417	0.389	6.7	98	0.00
42	T	Bromodichloromethane	0.695	0.673	3.2	100	0.00
43		Methyl Methacrylate	0.382	0.360	5.8	96	0.00
44	T	2,2,4-Trimethylpentane	1.684	1.532	9.0	98	0.00
45	T	t-1,3-Dichloropropene	0.437	0.417	4.6	96	0.00
46	T	cis-1,3-Dichloropropene	0.548	0.521	4.9	97	0.00
47	T	1,1,2-Trichloroethane	0.377	0.343	9.0	98	0.00
48	T	Dibromochloromethane	0.603	0.567	6.0	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 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	0.521	0.507	2.7	98	0.00
50	T	4-Methyl-2-Pentanone	0.989	0.927	6.3	95	0.00
51	T	2-Hexanone	0.784	0.757	3.4	95	0.00
52	T	Tetrachloroethene	0.368	0.328	10.9	97	0.00
53	T	Toluene	1.138	1.062	6.7	98	0.00
54	T	1,2-Dibromoethane	0.558	0.522	6.5	99	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56		1,1,1,2-Tetrachloroethane	0.503	0.463	8.0	96	0.00
57	T	Chlorobenzene	0.971	0.879	9.5	98	0.00
58	T	Ethyl Benzene	1.696	1.567	7.6	98	0.00
59	T	m/p-Xylene	1.335	1.227	8.1	98	0.02
60	T	o-Xylene	1.331	1.207	9.3	98	0.00
61	T	Styrene	0.629	0.591	6.0	97	0.00
62		Isopropylbenzene	1.967	1.780	9.5	97	0.00
63	T	1,1,2,2-Tetrachloroethane	0.847	0.741	12.5	99	0.00
64		n-propylbenzene	0.527	0.477	9.5	98	0.00
65		tert-Butylbenzene	1.785	1.563	12.4	96	0.00
66	T	Benzyl Chloride	0.230	0.217	5.7	87	0.00
67		sec-Butylbenzene	2.509	2.204	12.2	97	0.00
68	S	1-Bromo-4-Fluorobenzene	0.750	0.739	1.5	96	0.00
69		p-Isopropyltoluene	2.101	1.859	11.5	96	0.00
70		n-Butylbenzene	2.074	1.867	10.0	98	0.00
71		2-Chlorotoluene	1.500	1.368	8.8	98	0.00
72	T	4-Ethyltoluene	1.660	1.496	9.9	98	0.00
73	T	1,3,5-Trimethylbenzene	1.374	1.254	8.7	98	0.00
74	T	1,2,4-Trimethylbenzene	1.524	1.348	11.5	97	0.00
75	T	1,3-Dichlorobenzene	0.957	0.851	11.1	98	0.00
76	T	1,4-Dichlorobenzene	0.955	0.863	9.6	98	0.00
77	T	1,2-Dichlorobenzene	0.929	0.813	12.5	98	0.00
78	T	Hexachloro-1,3-Butadiene	0.769	0.613	20.3	98	0.00
79	T	Naphthalene	1.437	1.389	3.3	97	0.00
80	T	Naphthalene,2-methyl-	0.649	0.705	-8.6	95	0.00
81	T	1,2,4-Trichlorobenzene	0.802	0.720	10.2	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 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	9.156	8.4	99	0.00
3		Chlorodifluoromethane	10.000	8.658	13.4	99	0.00
4		Chloromethane	10.000	9.220	7.8	97	0.00
5	T	Vinyl Chloride	10.000	8.650	13.5	98	0.00
6	T	Bromomethane	10.000	8.455	15.4	94	0.00
7		Chloroethane	10.000	8.541	14.6	94	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.325	6.8	100	0.00
9	T	Propene	10.000	8.688	13.1	91	0.00
10	T	Heptane	10.000	9.102	9.0	98	0.00
11	T	Trichlorofluoromethane	10.000	9.484	5.2	101	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.839	1.6	105	0.00
13		Ethanol	10.000	6.387	36.1#	89	0.00
14	T	Bromoethene	10.000	9.215	7.9	98	0.00
15	T	Acetone	10.000	7.596	24.0	98	0.00
16	T	1,3-Butadiene	10.000	8.807	11.9	102	0.00
17		tert-Butyl alcohol	10.000	9.611	3.9	97	0.00
18	T	1,1-Dichloroethene	10.000	9.423	5.8	104	0.00
19	T	Isopropyl Alcohol	10.000	8.899	11.0	97	0.00
20	T	Methylene Chloride	10.000	8.444	15.6	102	0.00
21	T	Allyl Chloride	10.000	9.297	7.0	100	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.742	2.6	106	0.00
23	T	Vinyl Acetate	10.000	10.103	-1.0	112	0.00
24	T	1,1-Dichloroethane	10.000	9.408	5.9	99	0.00
25	T	Ethyl Acetate	10.000	9.171	8.3	99	0.00
26	T	Hexane	10.000	8.889	11.1	98	0.00
27	T	Carbon Disulfide	10.000	9.743	2.6	104	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.302	7.0	102	0.00
29	T	Chloroform	10.000	9.057	9.4	100	0.00
30	T	Cyclohexane	10.000	9.198	8.0	99	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.307	6.9	100	0.00
32	T	1,1,1-Trichloroethane	10.000	9.077	9.2	100	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	98	0.00
34	T	2-Butanone	10.000	9.233	7.7	98	0.00
35	T	Carbon Tetrachloride	10.000	9.374	6.3	100	0.00
36	T	Benzene	10.000	9.253	7.5	99	0.00
37	T	1,2-Dichloroethane	10.000	9.555	4.5	102	0.00
38	T	Trichloroethene	10.000	9.133	8.7	99	0.00
39	T	1,2-Dichloropropane	10.000	8.988	10.1	97	0.00
40	T	1,4-Dioxane	10.000	9.306	6.9	98	0.00
41	T	Tetrahydrofuran	10.000	9.309	6.9	98	0.00
42	T	Bromodichloromethane	10.000	9.676	3.2	100	0.00
43		Methyl Methacrylate	10.000	9.421	5.8	96	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.093	9.1	98	0.00
45	T	t-1,3-Dichloropropene	10.000	9.538	4.6	96	0.00
46	T	cis-1,3-Dichloropropene	10.000	9.505	4.9	97	0.00
47	T	1,1,2-Trichloroethane	10.000	9.088	9.1	98	0.00
48	T	Dibromochloromethane	10.000	9.391	6.1	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

Quant Time: May 30 02:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 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	9.742	2.6	98	0.00
50	T	4-Methyl-2-Pentanone	10.000	9.369	6.3	95	0.00
51	T	2-Hexanone	10.000	9.655	3.5	95	0.00
52	T	Tetrachloroethene	10.000	8.925	10.7	97	0.00
53	T	Toluene	10.000	9.329	6.7	98	0.00
54	T	1,2-Dibromoethane	10.000	9.364	6.4	99	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	97	0.00
56		1,1,1,2-Tetrachloroethane	10.000	9.199	8.0	96	0.00
57	T	Chlorobenzene	10.000	9.054	9.5	98	0.00
58	T	Ethyl Benzene	10.000	9.237	7.6	98	0.00
59	T	m/p-Xylene	20.000	18.377	8.1	98	0.02
60	T	o-Xylene	10.000	9.069	9.3	98	0.00
61	T	Styrene	10.000	9.396	6.0	97	0.00
62		Isopropylbenzene	10.000	9.051	9.5	97	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	8.749	12.5	99	0.00
64		n-propylbenzene	10.000	9.054	9.5	98	0.00
65		tert-Butylbenzene	10.000	8.758	12.4	96	0.00
66	T	Benzyl Chloride	10.000	9.435	5.6	87	0.00
67		sec-Butylbenzene	10.000	8.781	12.2	97	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	9.852	1.5	96	0.00
69		p-Isopropyltoluene	10.000	8.844	11.6	96	0.00
70		n-Butylbenzene	10.000	8.998	10.0	98	0.00
71		2-Chlorotoluene	10.000	9.119	8.8	98	0.00
72	T	4-Ethyltoluene	10.000	9.012	9.9	98	0.00
73	T	1,3,5-Trimethylbenzene	10.000	9.131	8.7	98	0.00
74	T	1,2,4-Trimethylbenzene	10.000	8.842	11.6	97	0.00
75	T	1,3-Dichlorobenzene	10.000	8.886	11.1	98	0.00
76	T	1,4-Dichlorobenzene	10.000	9.034	9.7	98	0.00
77	T	1,2-Dichlorobenzene	10.000	8.754	12.5	98	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	7.977	20.2	98	0.00
79	T	Naphthalene	10.000	9.666	3.3	97	0.00
80	T	Naphthalene,2-methyl-	10.000	10.853	-8.5	95	0.00
81	T	1,2,4-Trichlorobenzene	10.000	8.978	10.2	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2390 SAS No.: Q2390 SDG No.: Q2390

Instrument ID: MSVOA_L Calibration Date/Time: 06/23/2025 08:41

Lab File ID: VL042663.D Init. Calib. Date(s): 05/29/2025 05/29/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:24

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.496	0.466		-6.05	30
1,1-Dichloroethene	0.416	0.439		5.53	30
cis-1,2-Dichloroethene	1.370	1.359		-0.8	30
1,1,1-Trichloroethane	1.990	1.974		-0.8	30
Trichloroethene	0.419	0.429		2.39	30
Tetrachloroethene	0.368	0.360		-2.17	30
1-Bromo-4-Fluorobenzene	0.750	0.795		6	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042663.D
Acq On : 23 Jun 2025 08:41
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 06:40:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	107594	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	276339	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	242640	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	192988	10.610	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	138217	10.452	ppbv	97
3) Chlorodifluoromethane	1.476	51	178410	9.796	ppbv	97
4) Chloromethane	1.534	50	52895	10.101	ppbv	97
5) Vinyl Chloride	1.580	62	50091	9.390	ppbv	97
6) Bromomethane	1.667	94	24674	9.503	ppbv	88
7) Chloroethane	1.703	64	20015	9.657	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	113998	10.346	ppbv	99
9) Propene	1.483	41	68079	9.282	ppbv	100
10) Heptane	4.978	43	196688	9.514	ppbv	100
11) Trichlorofluoromethane	1.877	101	146085	11.873	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	110320	11.419	ppbv	97
13) Ethanol	1.722	45	5775	6.607	ppbv	95
14) Bromoethene	1.780	108	40479	11.139	ppbv	95
15) Acetone	1.835	43	121399	9.367	ppbv	98
16) 1,3-Butadiene	1.609	39	57008	9.286	ppbv	95
17) tert-Butyl alcohol	2.039	59	132796	9.836	ppbv	99
18) 1,1-Dichloroethene	2.036	96	47216	10.544	ppbv	86
19) Isopropyl Alcohol	1.884	45	75865	9.792	ppbv	93
20) Methylene Chloride	2.062	84	42438	9.923	ppbv	95
21) Allyl Chloride	2.094	41	90824	9.932	ppbv	94
22) trans-1,2-Dichloroethene	2.340	96	54642	10.924	ppbv	99
23) Vinyl Acetate	2.463	43	205531	11.732	ppbv	98
24) 1,1-Dichloroethane	2.408	63	112237	10.905	ppbv	99
25) Ethyl Acetate	2.835	43	347267	9.791	ppbv	99
26) Hexane	2.826	57	151330	9.390	ppbv	97
27) Carbon Disulfide	2.149	76	136256	11.013	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	63583	9.723	ppbv	97
29) Chloroform	2.848	83	221500	10.569	ppbv	98
30) Cyclohexane	3.858	84	121505	9.094	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	146205	9.918	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	212367	9.918	ppbv	98
34) 2-Butanone	2.557	43	229755	11.658	ppbv	100
35) Carbon Tetrachloride	3.761	117	219549	12.036	ppbv	94
36) Benzene	3.658	78	300886	11.057	ppbv	98
37) 1,2-Dichloroethane	3.217	62	166642	12.321	ppbv	97
38) Trichloroethene	4.548	130	118538	10.248	ppbv	91
39) 1,2-Dichloropropane	4.311	63	112430	11.172	ppbv	97
40) 1,4-Dioxane	4.580	88	49446	10.981	ppbv #	94
41) Tetrahydrofuran	3.052	42	124761	10.815	ppbv	99
42) Bromodichloromethane	4.489	83	240200	12.505	ppbv	96
43) Methyl Methacrylate	4.878	69	110110	10.425	ppbv	99
44) 2,2,4-Trimethylpentane	4.638	57	517756	11.123	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	127466	10.547	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042663.D
Acq On : 23 Jun 2025 08:41
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 06:40:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.600	75	165013	10.896	ppbv		99
47)	1,1,2-Trichloroethane	6.580	97	116477	11.181	ppbv		91
48)	Dibromochloromethane	7.389	129	189132	11.341	ppbv		99
49)	Bromoform	9.483	173	161707	11.238	ppbv		99
50)	4-Methyl-2-Pentanone	5.752	43	300666	11.000	ppbv		98
51)	2-Hexanone	7.438	43	237754	10.967	ppbv	#	96
52)	Tetrachloroethene	8.228	164	99515	9.787	ppbv		96
53)	Toluene	6.933	91	327154	10.402	ppbv		100
54)	1,2-Dibromoethane	7.655	107	171564	11.127	ppbv		98
56)	1,1,1,2-Tetrachloroethane	8.927	131	142626	11.690	ppbv		98
57)	Chlorobenzene	8.924	112	259252	11.004	ppbv		96
58)	Ethyl Benzene	9.357	91	454212	11.036	ppbv		96
59)	m/p-Xylene	9.535	91	749683m	23.146	ppbv		
60)	o-Xylene	9.966	91	370094	11.457	ppbv		97
61)	Styrene	9.875	104	159261	10.427	ppbv		98
62)	Isopropylbenzene	10.542	105	537730	11.267	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.966	83	238296	11.601	ppbv		99
64)	n-propylbenzene	10.992	120	140127	10.954	ppbv		92
65)	tert-Butylbenzene	11.532	119	470271	10.859	ppbv		96
66)	Benzyl Chloride	11.616	91	49156	8.818	ppbv		97
67)	sec-Butylbenzene	11.769	105	678281	11.140	ppbv		98
69)	p-Isopropyltoluene	11.927	119	557238	10.929	ppbv		99
70)	n-Butylbenzene	12.283	91	573279	11.390	ppbv		98
71)	2-Chlorotoluene	10.904	91	410730	11.283	ppbv		96
72)	4-Ethyltoluene	11.128	105	452536	11.236	ppbv		98
73)	1,3,5-Trimethylbenzene	11.205	105	376444	11.293	ppbv		99
74)	1,2,4-Trimethylbenzene	11.539	105	416433	11.258	ppbv		98
75)	1,3-Dichlorobenzene	11.610	146	260528	11.215	ppbv		98
76)	1,4-Dichlorobenzene	11.675	146	261021	11.267	ppbv		99
77)	1,2-Dichlorobenzene	11.950	146	251878	11.172	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.882	225	179838	9.641	ppbv		99
79)	Naphthalene	13.513	128	395716	11.349	ppbv		99
80)	Naphthalene,2-methyl-	14.458	142	187000	11.871	ppbv		97
81)	1,2,4-Trichlorobenzene	13.439	180	204634	10.513	ppbv		98

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

Quantitation Report (QT Reviewed)

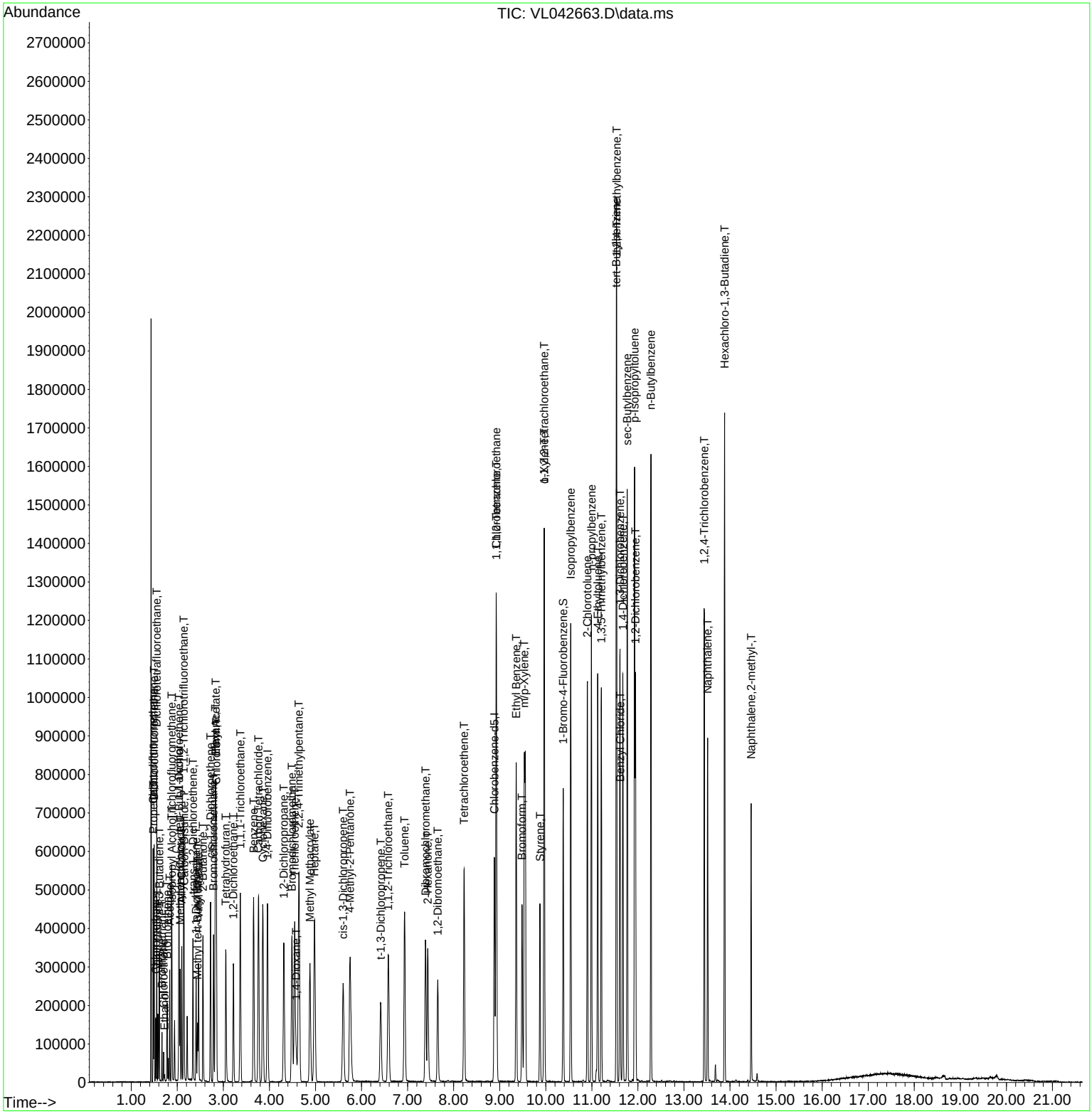
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042663.D
Acq On : 23 Jun 2025 08:41
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 06:40:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042663.D
Acq On : 23 Jun 2025 08:41
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Jun 24 06:40:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 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	105	0.00
2	T	Dichlorodifluoromethane	1.229	1.285	-4.6	119	0.00
3		Chlorodifluoromethane	1.693	1.658	2.1	118	0.00
4		Chloromethane	0.487	0.492	-1.0	112	0.00
5	T	Vinyl Chloride	0.496	0.466	6.0	112	0.00
6	T	Bromomethane	0.241	0.229	5.0	111	0.00
7		Chloroethane	0.193	0.186	3.6	111	0.00
8	T	Dichlorotetrafluoroethane	1.024	1.060	-3.5	117	0.00
9	T	Propene	0.682	0.633	7.2	102	0.00
10	T	Heptane	1.921	1.828	4.8	108	0.00
11	T	Trichlorofluoromethane	1.144	1.358	-18.7	133	0.00
12	T	1,1,2-Trichlorotrifluoroeth	0.898	1.025	-14.1	128	0.00
13		Ethanol	0.081	0.054	33.3#	97	0.00
14	T	Bromoethene	0.338	0.376	-11.2	124	0.00
15	T	Acetone	1.205	1.128	6.4	127	0.00
16	T	1,3-Butadiene	0.571	0.530	7.2	113	0.00
17		tert-Butyl alcohol	1.255	1.234	1.7	104	0.00
18	T	1,1-Dichloroethene	0.416	0.439	-5.5	122	0.00
19	T	Isopropyl Alcohol	0.720	0.705	2.1	112	0.00
20	T	Methylene Chloride	0.398	0.394	1.0	127	0.00
21	T	Allyl Chloride	0.850	0.844	0.7	112	0.00
22	T	trans-1,2-Dichloroethene	0.465	0.508	-9.2	124	0.00
23	T	Vinyl Acetate	1.628	1.910	-17.3	137	0.00
24	T	1,1-Dichloroethane	0.957	1.043	-9.0	121	0.00
25	T	Ethyl Acetate	3.296	3.228	2.1	111	0.00
26	T	Hexane	1.498	1.406	6.1	109	0.00
27	T	Carbon Disulfide	1.150	1.266	-10.1	124	0.00
28	T	Methyl tert-Butyl Ether	0.608	0.591	2.8	113	0.00
29	T	Chloroform	1.948	2.059	-5.7	123	0.00
30	T	Cyclohexane	1.242	1.129	9.1	103	0.00
31	T	cis-1,2-Dichloroethene	1.370	1.359	0.8	112	0.00
32	T	1,1,1-Trichloroethane	1.990	1.974	0.8	115	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
34	T	2-Butanone	0.713	0.831	-16.5	114	0.00
35	T	Carbon Tetrachloride	0.660	0.794	-20.3	118	0.00
36	T	Benzene	0.985	1.089	-10.6	109	0.00
37	T	1,2-Dichloroethane	0.489	0.603	-23.3	121	0.00
38	T	Trichloroethene	0.419	0.429	-2.4	102	0.00
39	T	1,2-Dichloropropane	0.364	0.407	-11.8	111	0.00
40	T	1,4-Dioxane	0.163	0.179	-9.8	106	0.00
41	T	Tetrahydrofuran	0.417	0.451	-8.2	104	0.00
42	T	Bromodichloromethane	0.695	0.869	-25.0	119	0.00
43		Methyl Methacrylate	0.382	0.398	-4.2	98	0.00
44	T	2,2,4-Trimethylpentane	1.684	1.874	-11.3	110	0.00
45	T	t-1,3-Dichloropropene	0.437	0.461	-5.5	98	0.00
46	T	cis-1,3-Dichloropropene	0.548	0.597	-8.9	102	0.00
47	T	1,1,2-Trichloroethane	0.377	0.422	-11.9	110	0.00
48	T	Dibromochloromethane	0.603	0.684	-13.4	108	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042663.D
Acq On : 23 Jun 2025 08:41
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Jun 24 06:40:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 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	0.521	0.585	-12.3	103	0.00
50	T	4-Methyl-2-Pentanone	0.989	1.088	-10.0	102	0.00
51	T	2-Hexanone	0.784	0.860	-9.7	99	0.00
52	T	Tetrachloroethene	0.368	0.360	2.2	97	0.00
53	T	Toluene	1.138	1.184	-4.0	101	0.00
54	T	1,2-Dibromoethane	0.558	0.621	-11.3	108	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00
56		1,1,1,2-Tetrachloroethane	0.503	0.588	-16.9	107	0.00
57	T	Chlorobenzene	0.971	1.068	-10.0	105	0.00
58	T	Ethyl Benzene	1.696	1.872	-10.4	103	0.00
59	T	m/p-Xylene	1.335	1.545	-15.7	108	0.00
60	T	o-Xylene	1.331	1.525	-14.6	109	0.00
61	T	Styrene	0.629	0.656	-4.3	94	0.00
62		Isopropylbenzene	1.967	2.216	-12.7	106	0.00
63	T	1,1,2,2-Tetrachloroethane	0.847	0.982	-15.9	115	0.00
64		n-propylbenzene	0.527	0.578	-9.7	104	0.00
65		tert-Butylbenzene	1.785	1.938	-8.6	104	0.00
66	T	Benzyl Chloride	0.230	0.203	11.7	71	0.00
67		sec-Butylbenzene	2.509	2.795	-11.4	108	0.00
68	S	1-Bromo-4-Fluorobenzene	0.750	0.795	-6.0	91	0.00
69		p-Isopropyltoluene	2.101	2.297	-9.3	104	0.00
70		n-Butylbenzene	2.074	2.363	-13.9	109	0.00
71		2-Chlorotoluene	1.500	1.693	-12.9	107	0.00
72	T	4-Ethyltoluene	1.660	1.865	-12.3	107	0.00
73	T	1,3,5-Trimethylbenzene	1.374	1.551	-12.9	107	0.00
74	T	1,2,4-Trimethylbenzene	1.524	1.716	-12.6	109	0.00
75	T	1,3-Dichlorobenzene	0.957	1.074	-12.2	109	0.00
76	T	1,4-Dichlorobenzene	0.955	1.076	-12.7	108	0.00
77	T	1,2-Dichlorobenzene	0.929	1.038	-11.7	110	0.00
78	T	Hexachloro-1,3-Butadiene	0.769	0.741	3.6	104	0.00
79	T	Naphthalene	1.437	1.631	-13.5	100	0.00
80	T	Naphthalene,2-methyl-	0.649	0.771	-18.8	91	0.00
81	T	1,2,4-Trichlorobenzene	0.802	0.843	-5.1	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042663.D
Acq On : 23 Jun 2025 08:41
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Jun 24 06:40:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 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	105	0.00
2	T	Dichlorodifluoromethane	10.000	10.452	-4.5	119	0.00
3		Chlorodifluoromethane	10.000	9.796	2.0	118	0.00
4		Chloromethane	10.000	10.101	-1.0	112	0.00
5	T	Vinyl Chloride	10.000	9.390	6.1	112	0.00
6	T	Bromomethane	10.000	9.503	5.0	111	0.00
7		Chloroethane	10.000	9.657	3.4	111	0.00
8	T	Dichlorotetrafluoroethane	10.000	10.346	-3.5	117	0.00
9	T	Propene	10.000	9.282	7.2	102	0.00
10	T	Heptane	10.000	9.514	4.9	108	0.00
11	T	Trichlorofluoromethane	10.000	11.873	-18.7	133	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	11.419	-14.2	128	0.00
13		Ethanol	10.000	6.607	33.9#	97	0.00
14	T	Bromoethene	10.000	11.139	-11.4	124	0.00
15	T	Acetone	10.000	9.367	6.3	127	0.00
16	T	1,3-Butadiene	10.000	9.286	7.1	113	0.00
17		tert-Butyl alcohol	10.000	9.836	1.6	104	0.00
18	T	1,1-Dichloroethene	10.000	10.544	-5.4	122	0.00
19	T	Isopropyl Alcohol	10.000	9.792	2.1	112	0.00
20	T	Methylene Chloride	10.000	9.923	0.8	127	0.00
21	T	Allyl Chloride	10.000	9.932	0.7	112	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.924	-9.2	124	0.00
23	T	Vinyl Acetate	10.000	11.732	-17.3	137	0.00
24	T	1,1-Dichloroethane	10.000	10.905	-9.0	121	0.00
25	T	Ethyl Acetate	10.000	9.791	2.1	111	0.00
26	T	Hexane	10.000	9.390	6.1	109	0.00
27	T	Carbon Disulfide	10.000	11.013	-10.1	124	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.723	2.8	113	0.00
29	T	Chloroform	10.000	10.569	-5.7	123	0.00
30	T	Cyclohexane	10.000	9.094	9.1	103	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.918	0.8	112	0.00
32	T	1,1,1-Trichloroethane	10.000	9.918	0.8	115	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	90	0.00
34	T	2-Butanone	10.000	11.658	-16.6	114	0.00
35	T	Carbon Tetrachloride	10.000	12.036	-20.4	118	0.00
36	T	Benzene	10.000	11.057	-10.6	109	0.00
37	T	1,2-Dichloroethane	10.000	12.321	-23.2	121	0.00
38	T	Trichloroethene	10.000	10.248	-2.5	102	0.00
39	T	1,2-Dichloropropane	10.000	11.172	-11.7	111	0.00
40	T	1,4-Dioxane	10.000	10.981	-9.8	106	0.00
41	T	Tetrahydrofuran	10.000	10.815	-8.1	104	0.00
42	T	Bromodichloromethane	10.000	12.505	-25.1	119	0.00
43		Methyl Methacrylate	10.000	10.425	-4.3	98	0.00
44	T	2,2,4-Trimethylpentane	10.000	11.123	-11.2	110	0.00
45	T	t-1,3-Dichloropropene	10.000	10.547	-5.5	98	0.00
46	T	cis-1,3-Dichloropropene	10.000	10.896	-9.0	102	0.00
47	T	1,1,2-Trichloroethane	10.000	11.181	-11.8	110	0.00
48	T	Dibromochloromethane	10.000	11.341	-13.4	108	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042663.D
Acq On : 23 Jun 2025 08:41
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Jun 24 06:40:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 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	11.238	-12.4	103	0.00
50	T	4-Methyl-2-Pentanone	10.000	11.000	-10.0	102	0.00
51	T	2-Hexanone	10.000	10.967	-9.7	99	0.00
52	T	Tetrachloroethene	10.000	9.787	2.1	97	0.00
53	T	Toluene	10.000	10.402	-4.0	101	0.00
54	T	1,2-Dibromoethane	10.000	11.127	-11.3	108	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	85	0.00
56		1,1,1,2-Tetrachloroethane	10.000	11.690	-16.9	107	0.00
57	T	Chlorobenzene	10.000	11.004	-10.0	105	0.00
58	T	Ethyl Benzene	10.000	11.036	-10.4	103	0.00
59	T	m/p-Xylene	20.000	23.146	-15.7	108	0.00
60	T	o-Xylene	10.000	11.457	-14.6	109	0.00
61	T	Styrene	10.000	10.427	-4.3	94	0.00
62		Isopropylbenzene	10.000	11.267	-12.7	106	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	11.601	-16.0	115	0.00
64		n-propylbenzene	10.000	10.954	-9.5	104	0.00
65		tert-Butylbenzene	10.000	10.859	-8.6	104	0.00
66	T	Benzyl Chloride	10.000	8.818	11.8	71	0.00
67		sec-Butylbenzene	10.000	11.140	-11.4	108	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.610	-6.1	91	0.00
69		p-Isopropyltoluene	10.000	10.929	-9.3	104	0.00
70		n-Butylbenzene	10.000	11.390	-13.9	109	0.00
71		2-Chlorotoluene	10.000	11.283	-12.8	107	0.00
72	T	4-Ethyltoluene	10.000	11.236	-12.4	107	0.00
73	T	1,3,5-Trimethylbenzene	10.000	11.293	-12.9	107	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.258	-12.6	109	0.00
75	T	1,3-Dichlorobenzene	10.000	11.215	-12.1	109	0.00
76	T	1,4-Dichlorobenzene	10.000	11.267	-12.7	108	0.00
77	T	1,2-Dichlorobenzene	10.000	11.172	-11.7	110	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	9.641	3.6	104	0.00
79	T	Naphthalene	10.000	11.349	-13.5	100	0.00
80	T	Naphthalene,2-methyl-	10.000	11.871	-18.7	91	0.00
81	T	1,2,4-Trichlorobenzene	10.000	10.513	-5.1	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

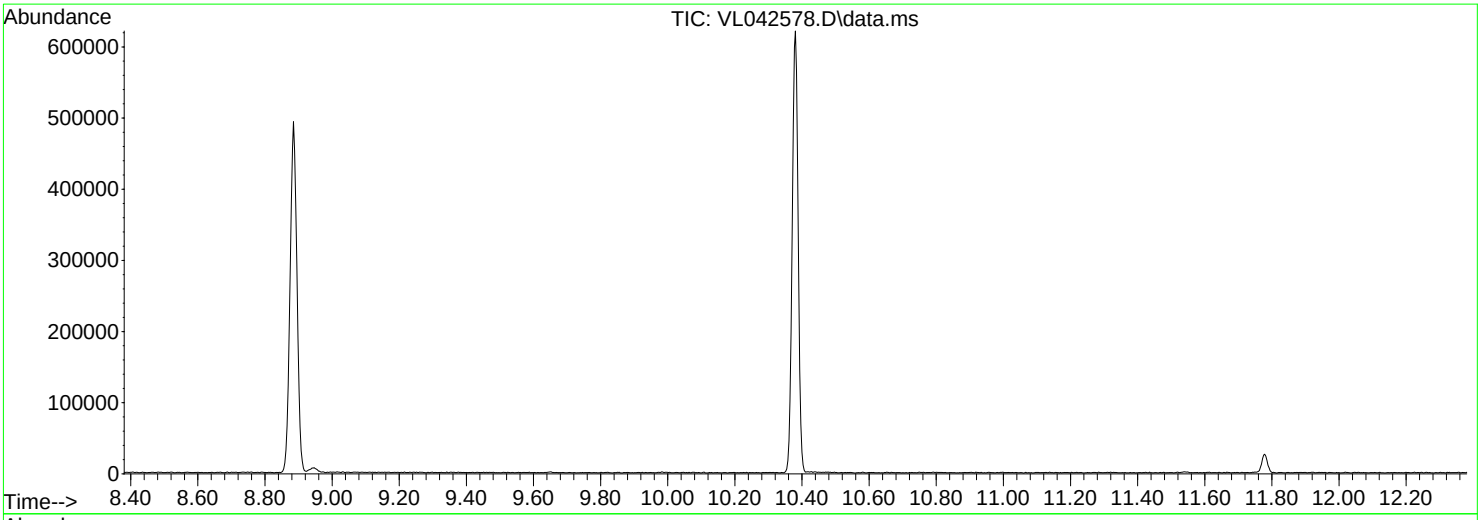
BFB

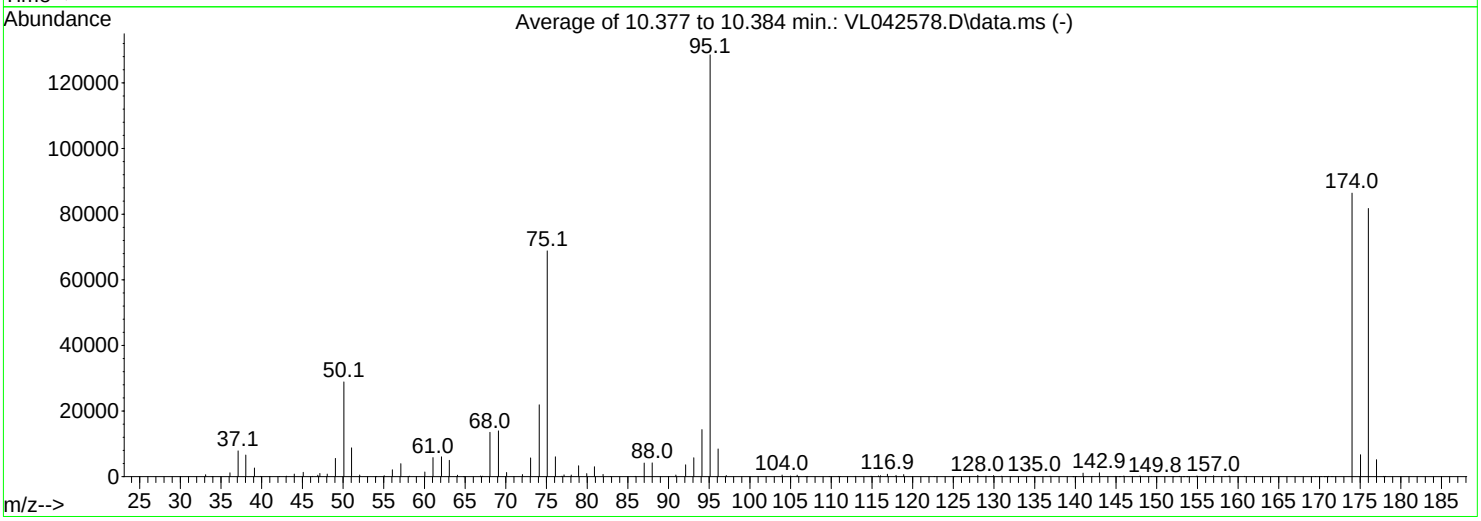
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042578.D
Acq On : 29 May 2025 08:05
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed May 21 00:21:29 2025





AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.4	28861	PASS
75	95	30	66	53.5	68792	PASS
95	95	100	100	100.0	128557	PASS
96	95	5	9	6.6	8426	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	67.2	86397	PASS
175	174	4	9	7.7	6664	PASS
176	174	93	101	94.6	81744	PASS
177	176	5	9	6.3	5154	PASS

Average of 10.377 to 10.384 min.: VL042578.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	604	45.10	1310	56.05	2107	68.05	1349
33.90	20	46.20	82	57.10	3938	69.10	1396
36.10	1179	46.90	454	58.15	159	70.10	125
37.10	7865	47.15	999	60.05	1394	71.00	7
38.05	6599	48.05	784	61.05	5793	72.05	616
39.10	2657	49.05	5570	62.10	6048	73.05	5702
39.90	81	50.10	28861	63.05	4979	74.10	21883
41.00	66	51.05	8796	64.05	430	75.10	68792
42.20	45	52.05	485	64.80	28	76.10	6072
43.05	164	54.00	17	66.90	188	76.90	143
44.00	762	55.05	314	67.10	147	77.15	541

Instrument :
MSVOA_L
ClientSampleId :
BFB

Average of 10.377 to 10.384 min.: VL042578.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.05	512	93.10	5769	110.85	127	128.00	371
78.95	3322	94.10	14351	111.10	39	129.00	147
79.95	936	95.10	128557	112.95	118	129.95	325
80.90	3038	96.10	8426	114.90	160	130.95	149
81.95	666	97.10	324	115.80	234	132.10	57
82.85	69	103.95	507	116.05	275	134.80	45
85.90	102	105.00	185	116.90	719	135.00	127
87.00	4138	105.80	434	117.95	400	136.90	144
88.00	4195	106.80	76	118.90	638	139.70	25
90.90	504	107.00	24	122.65	40	140.10	50
92.10	3594	109.75	56	125.00	20	140.95	1056

Average of 10.377 to 10.384 min.: VL042578.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.05	103	152.80	86	170.90	53		
142.95	1152	153.30	25	171.10	116		
144.90	93	153.70	29	171.50	43		
145.10	33	154.95	214	171.65	64		
145.40	18	156.00	20	172.00	56		
145.95	182	157.00	303	174.00	86397		
147.00	65	158.90	220	175.05	6664		
147.95	210	160.80	92	176.00	81744		
149.35	45	169.50	60	177.00	5154		
149.80	42	170.20	51	177.90	98		
152.00	19	170.60	17	178.10	81		

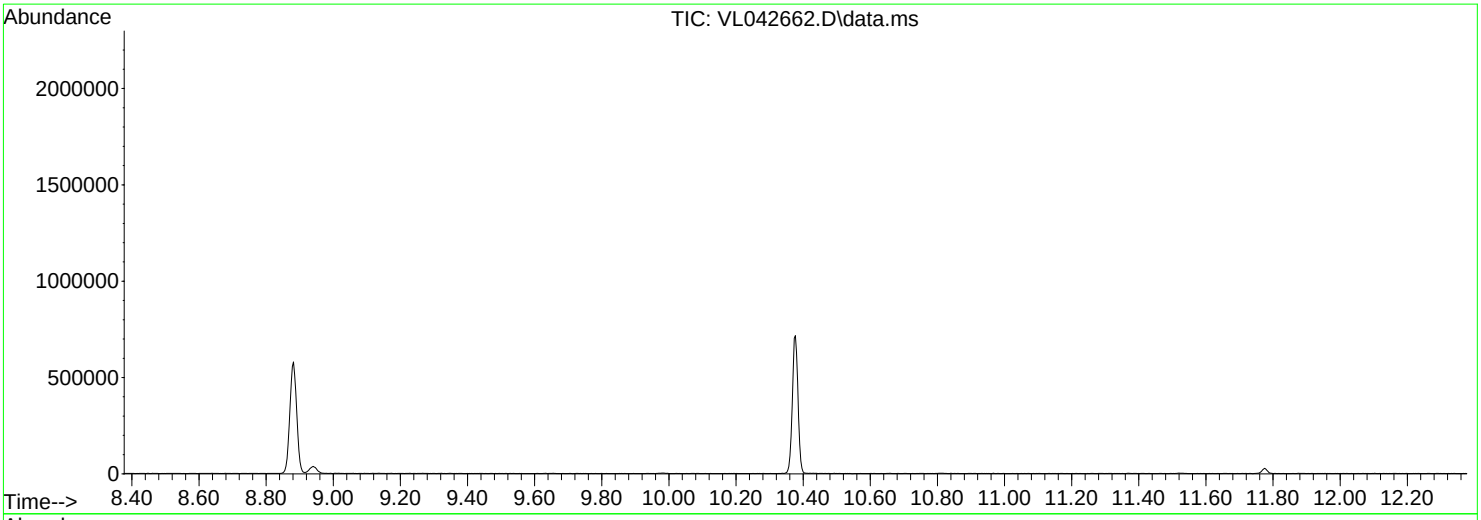
BFB

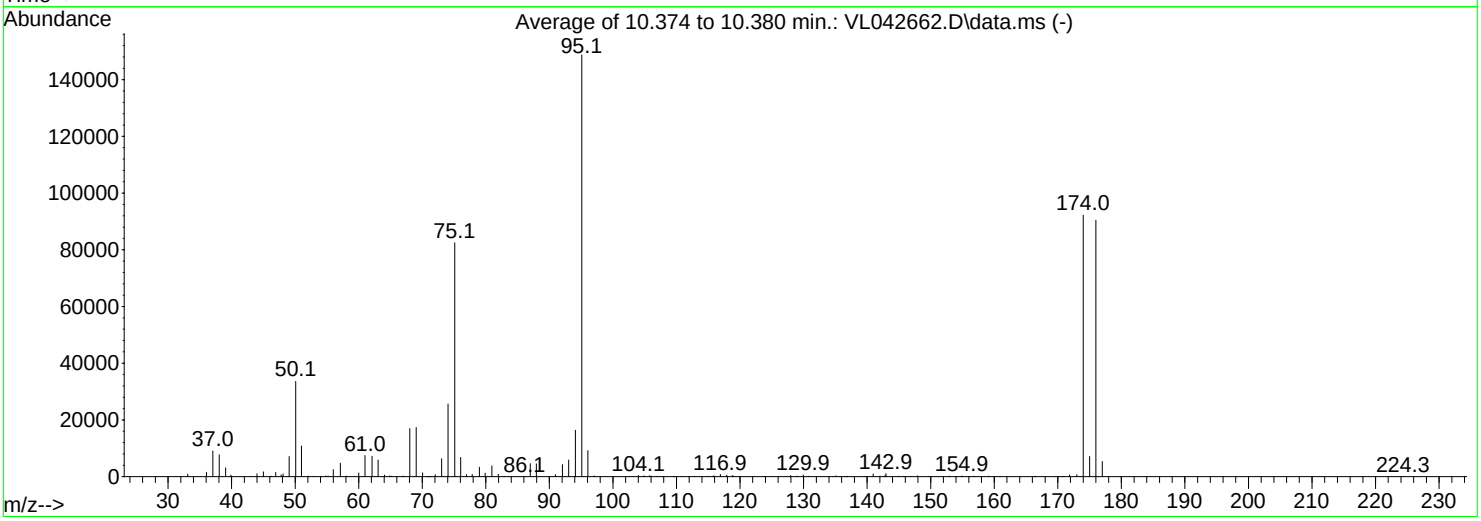
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042662.D
Acq On : 23 Jun 2025 07:57
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Fri May 30 02:01:56 2025





AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	33587	PASS
75	95	30	66	55.5	82515	PASS
95	95	100	100	100.0	148757	PASS
96	95	5	9	6.2	9198	PASS
173	174	0.00	2	0.7	689	PASS
174	95	50	120	62.0	92200	PASS
175	174	4	9	7.7	7104	PASS
176	174	93	101	98.1	90432	PASS
177	176	5	9	6.0	5391	PASS

Average of 10.374 to 10.380 min.: VL042662.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	917	47.80	655	56.00	2477	67.05	191
36.05	1543	48.10	939	57.10	4745	68.05	1697
37.05	9049	49.05	7096	58.05	237	69.05	1730
38.05	7728	50.10	33587	60.00	1284	70.05	133
39.05	3093	51.00	10778	61.00	7459	70.80	17
39.90	591	52.00	122	62.10	7153	71.20	18
43.00	62	52.10	178	63.05	5896	72.05	676
44.00	1020	52.90	73	64.05	572	73.05	6336
45.00	1679	54.15	59	64.90	294	74.05	25627
46.20	181	54.85	303	65.20	166	75.10	82515
46.95	1496	55.20	156	66.90	128	76.05	6781

Instrument :
MSVOA_L
ClientSampleId :
BFB

Average of 10.374 to 10.380 min.: VL042662.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.95	720	92.05	4233	106.95	141	118.80	407
77.85	777	93.05	5884	107.80	47	119.00	156
79.00	3346	94.10	16344	109.50	17	123.90	102
79.90	1228	95.10	148757	110.85	77	125.05	64
80.95	3796	96.05	9198	111.90	18	127.95	401
81.95	843	97.05	281	112.85	108	128.85	182
82.95	41	102.55	65	114.85	138	129.10	47
86.10	94	104.05	416	115.80	273	129.95	608
87.00	4595	104.90	264	116.00	186	130.85	199
87.95	4497	105.80	372	116.90	786	134.60	52
90.95	699	106.00	151	117.90	516	135.10	286

Average of 10.374 to 10.380 min.: VL042662.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.75	47	145.00	150	156.80	176	175.00	7104
136.45	55	145.60	99	159.10	183	176.00	90432
136.70	31	146.00	124	160.90	126	177.00	5391
136.95	130	146.80	107	166.40	18	177.95	112
139.70	39	147.90	272	169.70	37	224.35	46
140.00	40	149.70	83	170.15	72		
140.95	943	150.00	45	170.70	53		
142.00	198	152.95	145	170.95	112		
142.80	429	153.80	20	171.85	651		
142.95	1069	154.90	228	173.00	689		
144.00	108	156.00	37	174.00	92200		

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

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	50 Jefferson Blvd, Staten Island NY	Date Received:	
Client Sample ID:	VL0623ABL01	SDG No.:	Q2390
Lab Sample ID:	VL0623ABL01	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
VL042664.D	1		06/23/25 09:56	VL062325

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
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	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
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	105000		2.787			
540-36-3	1,4-Difluorobenzene	263000		3.956			
3114-55-4	Chlorobenzene-d5	229000		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

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042664.D
Acq On : 23 Jun 2025 09:56
Operator : SY/MD
Sample : VL0623ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0623ABL01

Quant Time: Jun 24 06:40:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

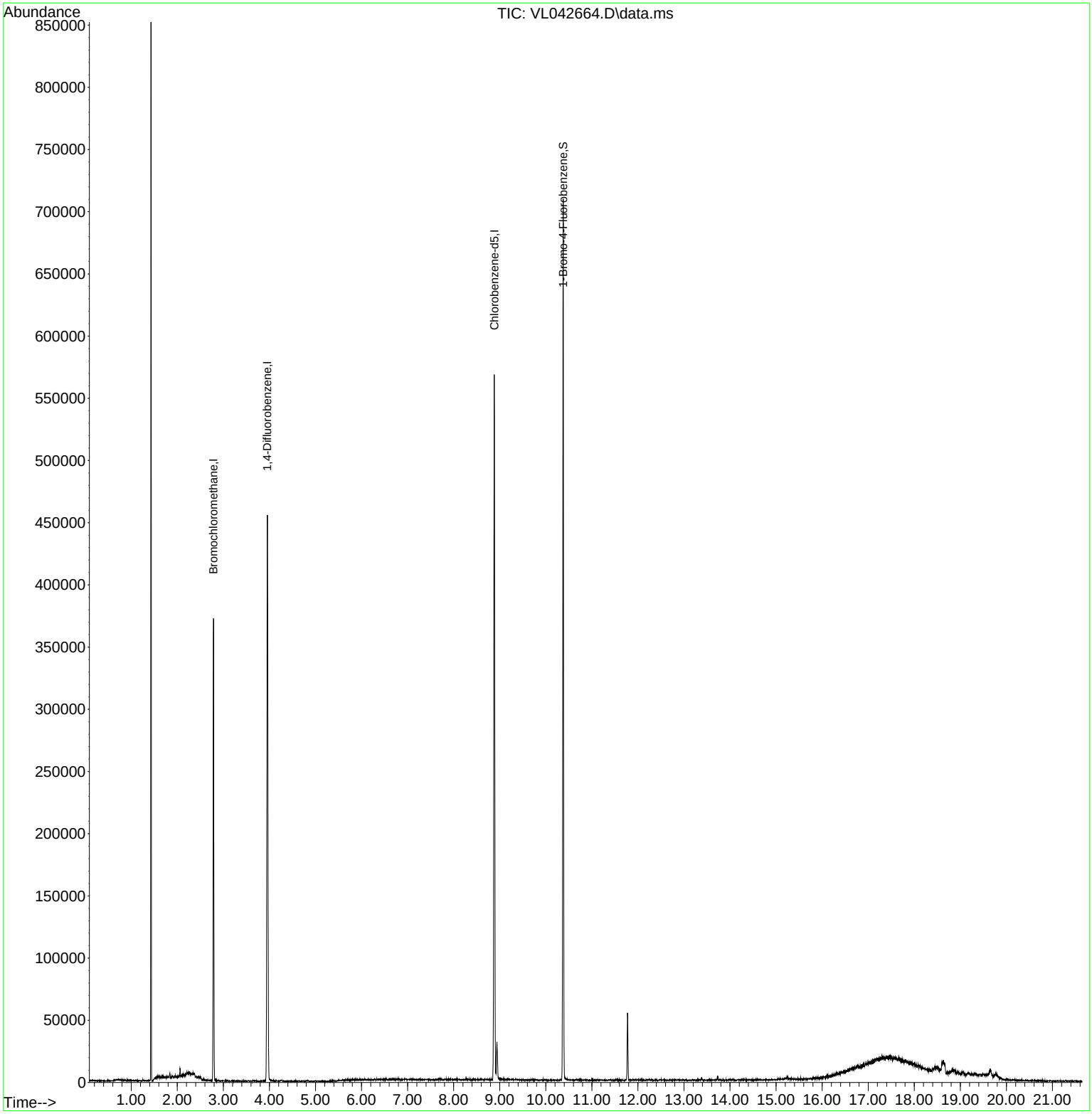
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	104996	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	262845	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	229439	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	173734	10.101	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.000%			
Target Compounds						Qvalue

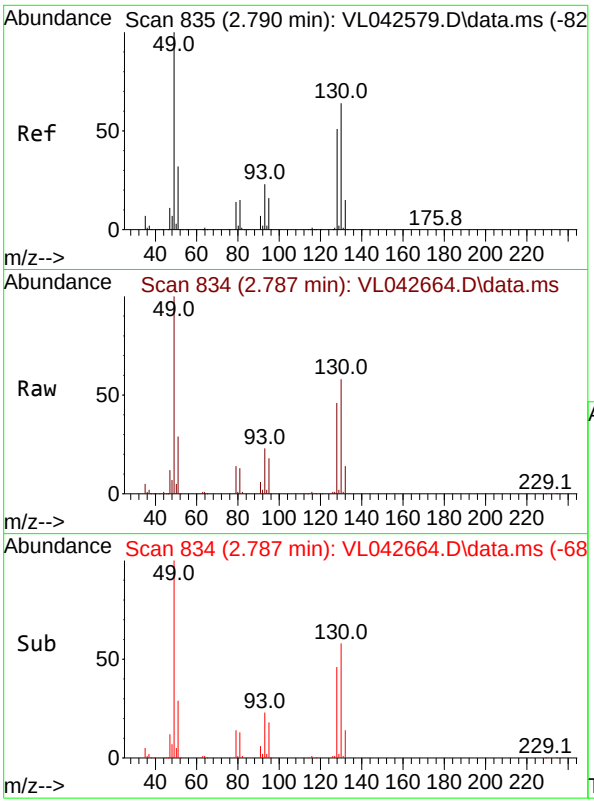
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042664.D
Acq On : 23 Jun 2025 09:56
Operator : SY/MD
Sample : VL0623ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0623ABL01

Quant Time: Jun 24 06:40:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration



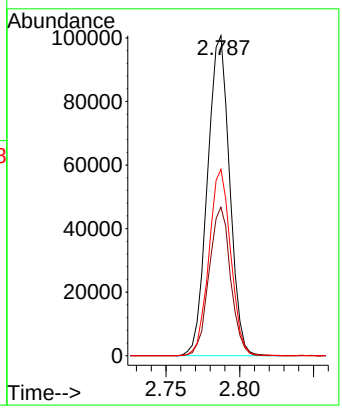


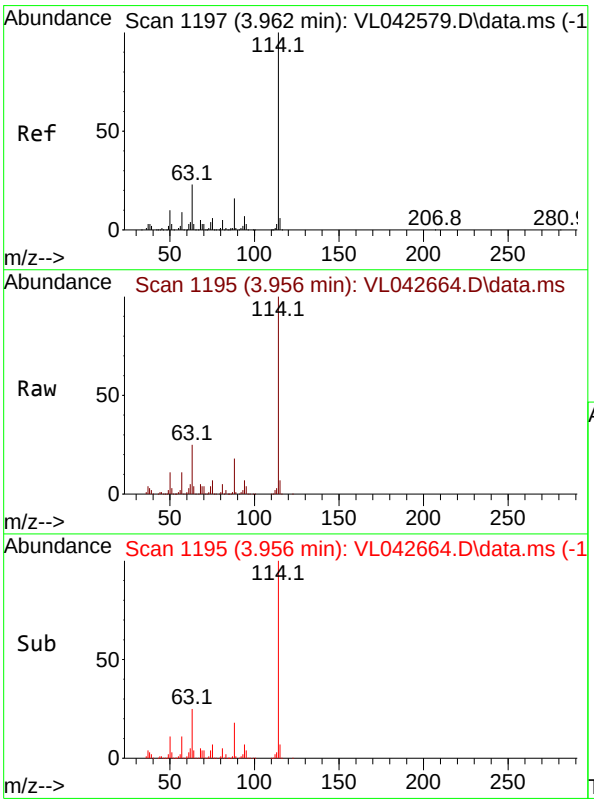
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 8
Delta R.T. -0.003 min
Lab File: VL042664.D
Acq: 23 Jun 2025 09:56

Instrument :
MSVOA_L
ClientSampleId :
VL0623ABL01

Tgt Ion: 49 Resp: 104996

Ion	Ratio	Lower	Upper
49	100		
128	45.2	24.2	72.6
130	57.4	30.4	91.2

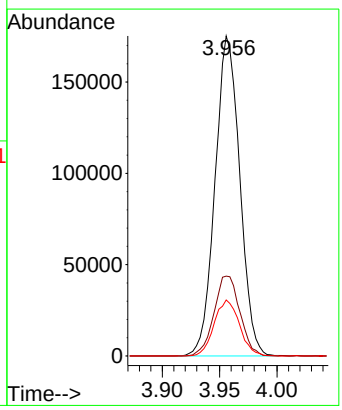


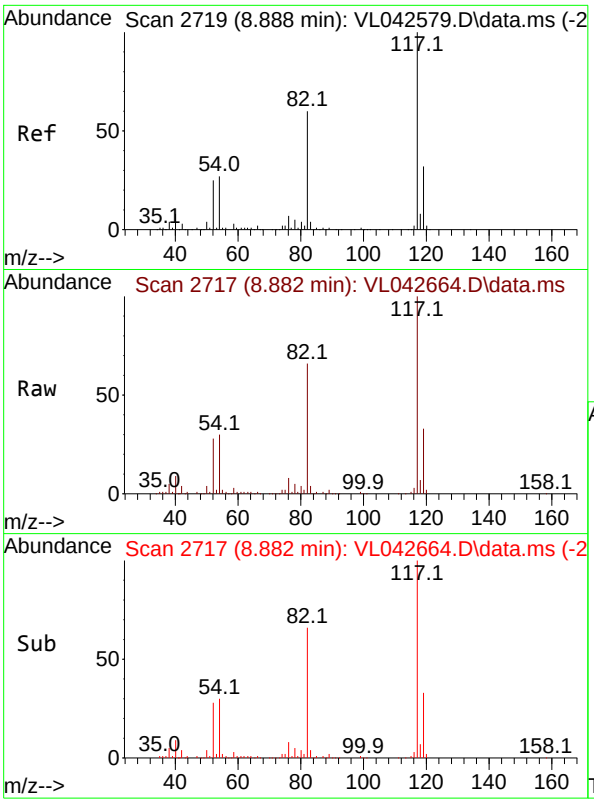


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.006 min
Lab File: VL042664.D
Acq: 23 Jun 2025 09:56

Tgt Ion:114 Resp: 262845

Ion	Ratio	Lower	Upper
114	100		
63	26.2	19.0	28.6
88	17.9	13.6	20.4



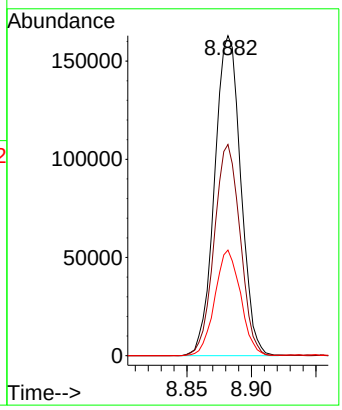


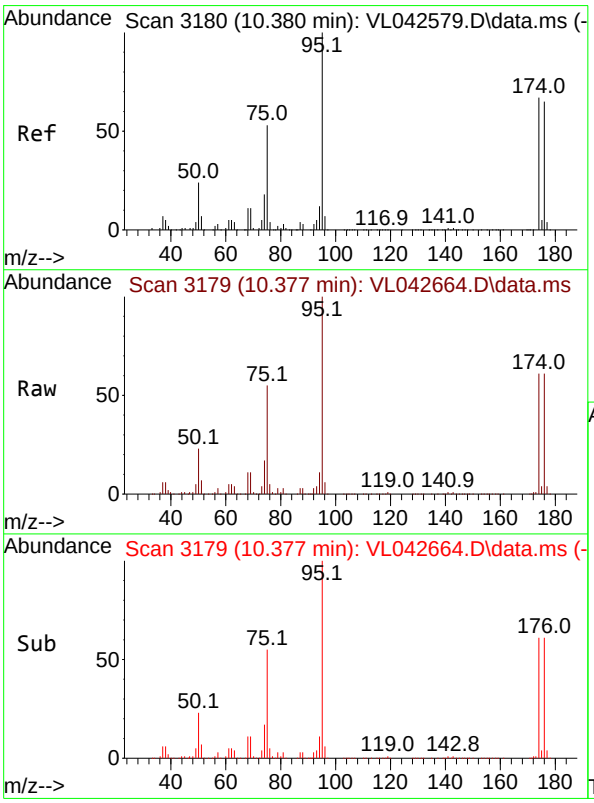
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL042664.D
Acq: 23 Jun 2025 09:56

Instrument :
MSVOA_L
ClientSampleId :
VL0623ABL01

Tgt Ion:117 Resp: 229439

Ion	Ratio	Lower	Upper
117	100		
82	65.7	51.2	76.8
119	32.5	26.3	39.5

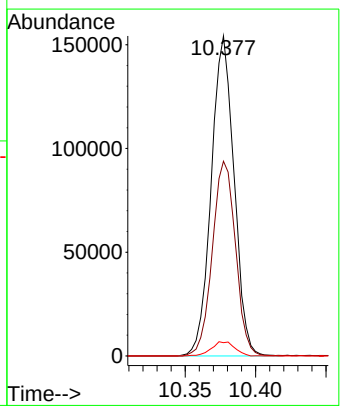




#68
1-Bromo-4-Fluorobenzene
Concen: 10.101 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL042664.D
Acq: 23 Jun 2025 09:56

Tgt Ion: 95 Resp: 173734

Ion	Ratio	Lower	Upper
95	100		
174	62.0	53.1	79.7
175	4.6	4.2	6.2



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

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	50 Jefferson Blvd, Staten Island NY	Date Received:	
Client Sample ID:	VL0623ABS01	SDG No.:	Q2390
Lab Sample ID:	VL0623ABS01	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
VL042665.D	1		06/23/25 10:42	VL062325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	9.20	23.5		0.080	0.080	ug/m3
75-35-4	1,1-Dichloroethene	10.6	42.0		0.59	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.80	38.9		0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	10.0	54.6		0.11	0.16	ug/m3
79-01-6	Trichloroethene	10.5	56.4		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	10.0	67.8		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	108000		2.787			
540-36-3	1,4-Difluorobenzene	274000		3.959			
3114-55-4	Chlorobenzene-d5	242000		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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042665.D
Acq On : 23 Jun 2025 10:42
Operator : SY/MD
Sample : VL0623ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0623ABS01

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Quant Time: Jun 24 06:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	107779	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	274326	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	241948	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	190928	10.527	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	142077	10.726	ppbv	98
3) Chlorodifluoromethane	1.476	51	177220	9.714	ppbv	97
4) Chloromethane	1.534	50	53093	10.121	ppbv	97
5) Vinyl Chloride	1.580	62	49117	9.192	ppbv	99
6) Bromomethane	1.667	94	26018	10.004	ppbv	99
7) Chloroethane	1.706	64	20042	9.653	ppbv	91
8) Dichlorotetrafluoroethane	1.554	85	116448	10.550	ppbv	99
9) Propene	1.483	41	68891	9.377	ppbv	98
10) Heptane	4.985	43	196305	9.479	ppbv	98
11) Trichlorofluoromethane	1.877	101	149772	12.152	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	113968	11.776	ppbv	97
13) Ethanol	1.722	45	6155	7.030	ppbv	91
14) Bromoethene	1.784	108	39115	10.745	ppbv	99
15) Acetone	1.835	43	120044	9.247	ppbv	98
16) 1,3-Butadiene	1.609	39	59116	9.613	ppbv	94
17) tert-Butyl alcohol	2.039	59	135577	10.024	ppbv	100
18) 1,1-Dichloroethene	2.033	96	47492	10.587	ppbv	94
19) Isopropyl Alcohol	1.884	45	76582	9.868	ppbv #	41
20) Methylene Chloride	2.062	84	42343	9.883	ppbv	93
21) Allyl Chloride	2.098	41	92476	10.096	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	54708	10.918	ppbv	99
23) Vinyl Acetate	2.463	43	190609	10.862	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	111954	10.859	ppbv	98
25) Ethyl Acetate	2.836	43	348038	9.796	ppbv	99
26) Hexane	2.829	57	151056	9.357	ppbv	97
27) Carbon Disulfide	2.149	76	136889	11.045	ppbv	94
28) Methyl tert-Butyl Ether	2.441	73	63194	9.647	ppbv	95
29) Chloroform	2.849	83	222416	10.595	ppbv	98
30) Cyclohexane	3.858	84	121851	9.105	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	143995	9.751	ppbv	98
32) 1,1,1-Trichloroethane	3.370	97	213727	9.964	ppbv	99
34) 2-Butanone	2.557	43	226678	11.587	ppbv	100
35) Carbon Tetrachloride	3.764	117	216696	11.966	ppbv	97
36) Benzene	3.658	78	298538	11.051	ppbv	98
37) 1,2-Dichloroethane	3.221	62	168905	12.580	ppbv	98
38) Trichloroethene	4.548	130	120060	10.456	ppbv	96
39) 1,2-Dichloropropane	4.318	63	110560	11.067	ppbv	97
40) 1,4-Dioxane	4.583	88	47991	10.736	ppbv #	97
41) Tetrahydrofuran	3.056	42	123509	10.785	ppbv	98
42) Bromodichloromethane	4.493	83	235473	12.348	ppbv	97
43) Methyl Methacrylate	4.884	69	109284	10.423	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	513745	11.118	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	126003	10.502	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042665.D
Acq On : 23 Jun 2025 10:42
Operator : SY/MD
Sample : VL0623ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 06:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0623ABS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	160738	10.692	ppbv		99
47) 1,1,2-Trichloroethane	6.584	97	117690	11.381	ppbv		95
48) Dibromochloromethane	7.386	129	188920	11.412	ppbv		99
49) Bromoform	9.487	173	159661	11.177	ppbv		100
50) 4-Methyl-2-Pentanone	5.755	43	297128	10.950	ppbv		99
51) 2-Hexanone	7.438	43	237176	11.021	ppbv	#	96
52) Tetrachloroethene	8.231	164	100572	9.963	ppbv		97
53) Toluene	6.936	91	326793	10.467	ppbv		100
54) 1,2-Dibromoethane	7.655	107	170800	11.159	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.927	131	142888	11.745	ppbv		99
57) Chlorobenzene	8.927	112	261922	11.149	ppbv		100
58) Ethyl Benzene	9.361	91	453069	11.040	ppbv		95
59) m/p-Xylene	9.555	91	754783m	23.370	ppbv		
60) o-Xylene	9.969	91	368763	11.448	ppbv		98
61) Styrene	9.875	104	156470	10.274	ppbv		98
62) Isopropylbenzene	10.542	105	531696	11.173	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.966	83	236989	11.570	ppbv		100
64) n-propylbenzene	10.992	120	142174	11.146	ppbv		93
65) tert-Butylbenzene	11.536	119	472264	10.936	ppbv		95
66) Benzyl Chloride	11.617	91	48805	8.780	ppbv		98
67) sec-Butylbenzene	11.769	105	684011	11.266	ppbv		98
69) p-Isopropyltoluene	11.927	119	572124	11.253	ppbv		98
70) n-Butylbenzene	12.283	91	581467	11.586	ppbv		99
71) 2-Chlorotoluene	10.904	91	409787	11.289	ppbv		96
72) 4-Ethyltoluene	11.128	105	460615	11.470	ppbv		98
73) 1,3,5-Trimethylbenzene	11.206	105	381168	11.468	ppbv		94
74) 1,2,4-Trimethylbenzene	11.539	105	422626	11.458	ppbv		92
75) 1,3-Dichlorobenzene	11.610	146	263156	11.361	ppbv		99
76) 1,4-Dichlorobenzene	11.675	146	260649	11.283	ppbv		99
77) 1,2-Dichlorobenzene	11.950	146	253970	11.297	ppbv		99
78) Hexachloro-1,3-Butadiene	13.882	225	181811	9.775	ppbv		98
79) Naphthalene	13.513	128	399501	11.490	ppbv		99
80) Naphthalene,2-methyl-	14.458	142	184419	11.740	ppbv		97
81) 1,2,4-Trichlorobenzene	13.442	180	204863	10.555	ppbv		99

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

Quantitation Report (QT Reviewed)

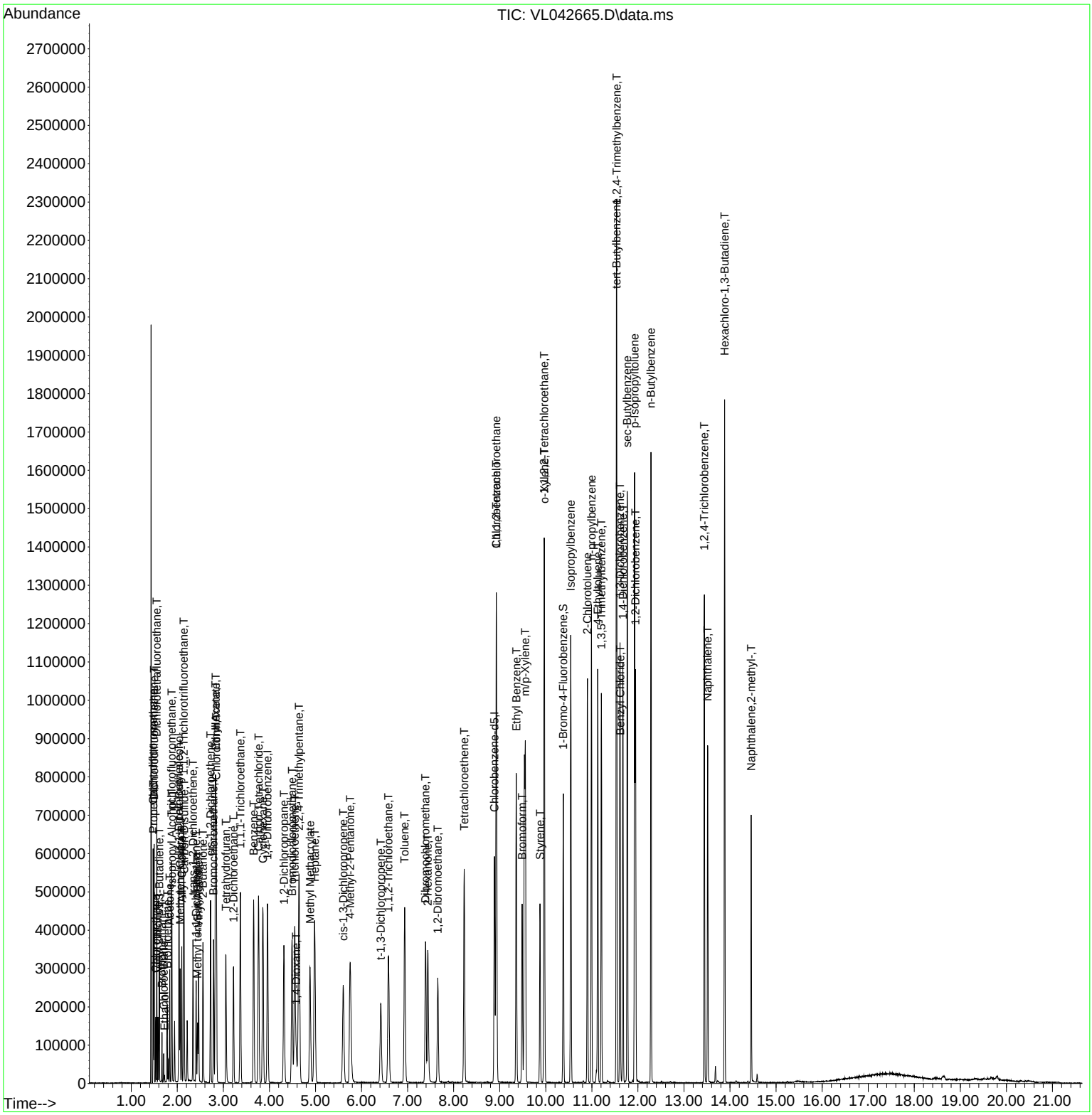
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062325\
Data File : VL042665.D
Acq On : 23 Jun 2025 10:42
Operator : SY/MD
Sample : VL0623ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 06:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0623ABS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/24/2025
Supervised By :Semsettin Yesilyurt 06/24/2025



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Manual Integration Report

Sequence:	vl052925	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042579.D	Ethanol	SAM	5/30/2025 7:46:58 AM	MMDadoda	5/30/2025 12:25:20 PM	Peak Integrated by Software
VSTDICCC010	VL042579.D	m/p-Xylene	SAM	5/30/2025 7:46:58 AM	MMDadoda	5/30/2025 12:25:20 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	1,4-Dioxane	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	Ethanol	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	m/p-Xylene	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	Methyl Methacrylate	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	1,4-Dioxane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	2,2,4-Trimethylpentane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	Heptane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	m/p-Xylene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl052925	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042581.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC0.5	VL042582.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDICC0.5	VL042582.D	1,2-Dichloropropane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDICC0.5	VL042582.D	1,4-Dioxane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDICC0.5	VL042582.D	4-Methyl-2-Pentanone	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDICC0.5	VL042582.D	Benzyl Chloride	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDICC0.5	VL042582.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDICC0.5	VL042582.D	Cyclohexane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDICC0.5	VL042582.D	Dibromochloromethane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDICC0.5	VL042582.D	Ethanol	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDICC0.5	VL042582.D	m/p-Xylene	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDICC0.1	VL042583.D	1,2-Dibromoethane	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDICC0.1	VL042583.D	Naphthalene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl052925	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042583.D	Tetrachloroethene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDICC0.1	VL042583.D	Trichloroethene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDICC0.03	VL042584.D	1,1,1-Trichloroethane	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDICC0.03	VL042584.D	Carbon Tetrachloride	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDICC0.03	VL042584.D	Tetrachloroethene	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDICC0.03	VL042584.D	Trichloroethene	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDICC015	VL042585.D	Ethanol	SAM	5/30/2025 7:48:19 AM	MMDadoda	5/30/2025 12:25:32 PM	Peak Integrated by Software
VSTDICC015	VL042585.D	m/p-Xylene	SAM	5/30/2025 7:48:19 AM	MMDadoda	5/30/2025 12:25:32 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	Ethanol	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	m/p-Xylene	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL062325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042663.D	m/p-Xylene	MMDadoda	6/24/2025 8:22:51 AM	Sam	6/24/2025 8:29:06 AM	Peak Integrated by Software
VL0623ABS01	VL042665.D	m/p-Xylene	MMDadoda	6/24/2025 8:22:51 AM	Sam	6/24/2025 8:29:11 AM	Peak Integrated by Software
Q2390-01	VL042666.D	1,2,4-Trimethylbenzene	MMDadoda	6/24/2025 8:22:51 AM	Sam	6/24/2025 8:29:14 AM	Peak Integrated by Software
Q2390-01	VL042666.D	Carbon Disulfide	MMDadoda	6/24/2025 8:22:51 AM	Sam	6/24/2025 8:29:14 AM	Peak Integrated by Software
Q2390-01	VL042666.D	Chloroform	MMDadoda	6/24/2025 8:22:51 AM	Sam	6/24/2025 8:29:14 AM	Peak Integrated by Software
Q2390-01	VL042666.D	o-Xylene	MMDadoda	6/24/2025 8:22:51 AM	Sam	6/24/2025 8:29:14 AM	Peak Integrated by Software
Q2390-01	VL042666.D	Propene	MMDadoda	6/24/2025 8:22:51 AM	Sam	6/24/2025 8:29:14 AM	Peak Integrated by Software
Q2390-01	VL042666.D	Tetrahydrofuran	MMDadoda	6/24/2025 8:22:51 AM	Sam	6/24/2025 8:29:14 AM	Peak Integrated by Software
Q2390-01	VL042666.D	Trichloroethene	MMDadoda	6/24/2025 8:22:51 AM	Sam	6/24/2025 8:29:14 AM	Peak Integrated by Software
Q2390-01DL	VL042667.D	Ethanol	MMDadoda	6/24/2025 8:22:50 AM	Sam	6/24/2025 8:29:12 AM	Peak Integrated by Software
Q2390-01DL	VL042667.D	Trichloroethene	MMDadoda	6/24/2025 8:22:50 AM	Sam	6/24/2025 8:29:12 AM	Peak Integrated by Software
Q2390-01DLDUP	VL042668.D	Ethanol	MMDadoda	6/24/2025 8:22:49 AM	Sam	6/24/2025 8:29:16 AM	Peak Integrated by Software
Q2390-01DLDUP	VL042668.D	Trichloroethene	MMDadoda	6/24/2025 8:22:49 AM	Sam	6/24/2025 8:29:16 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL062325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM				
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042578.D	29 May 2025 08:05	SY/MD	Ok
2	VSTDICCC010	VL042579.D	29 May 2025 11:09	SY/MD	Ok,M
3	VSTDICC002	VL042580.D	29 May 2025 11:43	SY/MD	Ok,M
4	VSTDICC001	VL042581.D	29 May 2025 12:15	SY/MD	Ok,M
5	VSTDICC0.5	VL042582.D	29 May 2025 12:47	SY/MD	Ok,M
6	VSTDICC0.1	VL042583.D	29 May 2025 13:19	SY/MD	Ok,M
7	VSTDICC0.03	VL042584.D	29 May 2025 13:51	SY/MD	Ok,M
8	VSTDICC015	VL042585.D	29 May 2025 14:24	SY/MD	Ok,M
9	VSTDICV010	VL042586.D	29 May 2025 14:56	SY/MD	Ok,M
10	VL0529ABL01	VL042587.D	29 May 2025 15:44	SY/MD	Not Ok
11	VL0529ABL02	VL042588.D	29 May 2025 16:50	SY/MD	Ok
12	Q2124-01	VL042589.D	29 May 2025 17:22	SY/MD	Dilution
13	Q2124-01DL	VL042590.D	29 May 2025 17:55	SY/MD	Ok,M
14	VL0529ABS01	VL042591.D	29 May 2025 18:27	SY/MD	Ok,M
15	Q2124-02	VL042592.D	29 May 2025 19:00	SY/MD	Ok,M
16	Q2124-02DL	VL042593.D	29 May 2025 19:32	SY/MD	Not Ok
17	Q2124-03	VL042594.D	29 May 2025 20:05	SY/MD	Ok,M
18	Q2124-03DL	VL042595.D	29 May 2025 20:37	SY/MD	Not Ok
19	Q2124-01DUP	VL042596.D	29 May 2025 21:10	SY/MD	Not Ok
20	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	SY/MD	Not Ok
21	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18	SY/MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM				
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M		HP Processing Method	VL052925AIR.M	

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	CAN10053	VL042599.D	29 May 2025 22:52	SY/MD	Ok
23	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26	SY/MD	Ok
24	Q2124-01DUP	VL042601.D	29 May 2025 23:58	SY/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL062325

Review By	Mahesh Dadoda	Review On	6/24/2025 8:22:54 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/24/2025 8:29:24 AM		
SubDirectory	VL062325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042662.D	23 Jun 2025 07:57	SY/MD	Ok
2	VSTDCCC010	VL042663.D	23 Jun 2025 08:41	SY/MD	Ok,M
3	VL0623ABL01	VL042664.D	23 Jun 2025 09:56	SY/MD	Ok
4	VL0623ABS01	VL042665.D	23 Jun 2025 10:42	SY/MD	Ok,M
5	Q2390-01	VL042666.D	23 Jun 2025 11:30	SY/MD	Dilution
6	Q2390-01DL	VL042667.D	23 Jun 2025 12:27	SY/MD	Ok,M
7	Q2390-01DLDUP	VL042668.D	23 Jun 2025 13:08	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042578.D	29 May 2025 08:05		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042579.D	29 May 2025 11:09		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042580.D	29 May 2025 11:43		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042581.D	29 May 2025 12:15		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042582.D	29 May 2025 12:47		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042583.D	29 May 2025 13:19		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042584.D	29 May 2025 13:51		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042585.D	29 May 2025 14:24		SY/MD	Ok,M
9	VSTDICV010	ICVVL052925	VL042586.D	29 May 2025 14:56	comp#13 fail	SY/MD	Ok,M
10	VL0529ABL01	VL0529ABL01	VL042587.D	29 May 2025 15:44	carryover	SY/MD	Not Ok
11	VL0529ABL02	VL0529ABL02	VL042588.D	29 May 2025 16:50		SY/MD	Ok
12	Q2124-01	SV1	VL042589.D	29 May 2025 17:22	Need 20X	SY/MD	Dilution
13	Q2124-01DL	SV1DL	VL042590.D	29 May 2025 17:55		SY/MD	Ok,M
14	VL0529ABS01	VL0529ABS01	VL042591.D	29 May 2025 18:27		SY/MD	Ok,M
15	Q2124-02	SV2	VL042592.D	29 May 2025 19:00		SY/MD	Ok,M
16	Q2124-02DL	SV2DL	VL042593.D	29 May 2025 19:32	Not Required	SY/MD	Not Ok
17	Q2124-03	SV3	VL042594.D	29 May 2025 20:05		SY/MD	Ok,M
18	Q2124-03DL	SV3DL	VL042595.D	29 May 2025 20:37	Not Required	SY/MD	Not Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2124-01DUP	SV1DUP	VL042596.D	29 May 2025 21:10	wrong purge	SY/MD	Not Ok
20	QC052725 CAN 10609	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	Contaminated	SY/MD	Not Ok
21	QC052725 CAN 10609	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18		SY/MD	Ok
22	CAN10053	CAN10053	VL042599.D	29 May 2025 22:52		SY/MD	Ok
23	QC05225 CAN 10154	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26		SY/MD	Ok
24	Q2124-01DUP	SV1DUP	VL042601.D	29 May 2025 23:58		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL062325

Review By	Mahesh Dadoda	Review On	6/24/2025 8:22:54 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/24/2025 8:29:24 AM		
SubDirectory	VL062325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042662.D	23 Jun 2025 07:57		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042663.D	23 Jun 2025 08:41		SY/MD	Ok,M
3	VL0623ABL01	VL0623ABL01	VL042664.D	23 Jun 2025 09:56		SY/MD	Ok
4	VL0623ABS01	VL0623ABS01	VL042665.D	23 Jun 2025 10:42		SY/MD	Ok,M
5	Q2390-01	SV1	VL042666.D	23 Jun 2025 11:30	Need 200X	SY/MD	Dilution
6	Q2390-01DL	SV1DL	VL042667.D	23 Jun 2025 12:27		SY/MD	Ok,M
7	Q2390-01DLDUP	SV1DLDUP	VL042668.D	23 Jun 2025 13:08		SY/MD	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

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

Alliance Project No. : _____

Client Contact Information	Bottle Order ID : **B2506052**	Courier : F GALDUN	1 of 1 COCs
Client ID : **GFEL01** Project ID : ~~All Projects~~		Sampler Name(s) : FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **Frank galdun**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**	Batch Certified	
	Site Details: 50 JEFFERSON BLVD STATEN ISLAND, NY		
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : ~~10 business days~~ **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : PDF	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SV1	6/20/25	7:56	9:56	30	2	69	75	-30	-3.9	10226	10598	6 L	50	VL042564.D	1		1

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) SV1

** Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY: PCE, TCE, CIS-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low) PID Readings: 1.3

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: SAM	Date/Time: 6/19/25	Canisters Received by:	Date/Time:
Samples Relinquished by:	Date/Time: 6/20/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: CB	Date/Time: 6/20/25 1210

B2506052 - 1

New Jersey Department of Environmental Protection

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
~~NAME~~:
Title: Sample Custodian
Field Sample Seal No.: Q2390
Date Broken: 6/20/2025
Military Time Seal Broken: 12:10:00
Case No.: 50 Jefferson Blvd, Staten I
Analytical Parameter/Fraction: VOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2390-01	SV1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
6/20/25	1400	Signature	Signature	AIR LAB
		Printed Name Castaneda Rena	Printed Name J CRALEY	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: _____ Supervisor Signature: _____

METHOD: TO-15 Pressure Gauge ID: A 755971

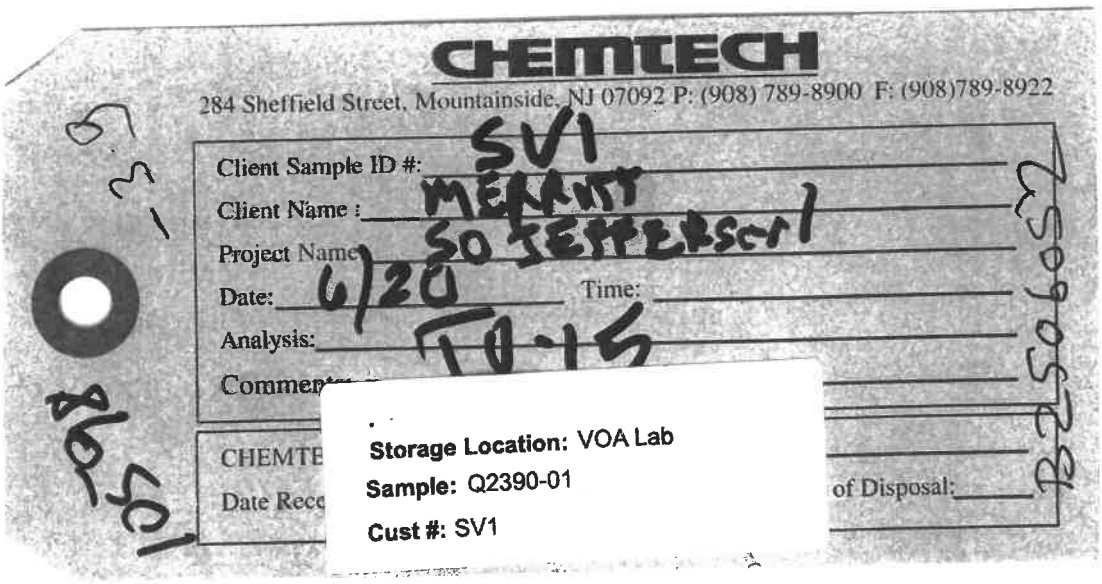
Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
6/18/25	Q2359-01	10280	10.6	-8.4				SY
6/19/25	Q2368-01	10606	12.4	-4.7				
	Q2368-02	10321	11.8	-5.9				
	Q2369-01	10153	12.4	-4.7				
	Q2369-02	10590	12.0	-5.5				
6/20/25	Q2390-01	10598	12.8	-3.9				SY
06/23/25	Q2390-01	10724	1.0		10		10X	SY

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

Process Report

Order ID : Q2390

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
06/23/2025	B2506052	Q2390-01	-3.9	10598	6 L	10226		C2505002	**VL042564.D** Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D


CHEMTECH

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

Client Sample ID #: SV1

Client Name: MERANT

Project Name: SO JERSEY

Date: 6/20 Time:

Analysis: TO-15

Comment

CHEMTE

Date Rec of Disposal:

Storage Location: VOA Lab

Sample: Q2390-01

Cust #: SV1

Q2390-01