SHIPPING DOCUMENTS

Q1256

CHEMTECH

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

CHEMTECH Project No. : _____

Client Contact Information	Bottle Order ID : **B2501045**	Courier : F GALDUN	1 of 2 ~~coc~~s
Client ID : **GFEL01** Project ID :	**21-36 Utopia Parkway, Flushing NY**	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: 2175 CLARENDON BROOKLYN 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	1/30/25	10:53	12:53	OVER 30	6.5	68	68	-30	-3.9	10528	10592	6 L	50	VL041615.D	1		1		

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: 0, 1

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 01/29/25	Canisters Received by:	Date/Time: 1-31-25 1242
Samples Relinquished by:	Date/Time: 1/31/25	Received by:	Date/Time:
Relinquished by:	Date/Time: 1-31-25 1313	Received by:	Date/Time:

B2501045 - 6

CHEMTECH

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

CHEMTECH Project No. : Q1256

Client Contact Information	Bottle Order ID : **B2501045**	Courier : FGALDUN	2 of 2 COCs
Client ID : **GFEL01**	Project ID : ~~21-36 Utopia Parkway, Flushing NY~~	Sampler Name(s) : FRANK GALDUN	
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: 2173 CLARENDON BROOKLYN, 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	Analysis: TO-15	Matrix: Indoor Ambinet Air	Matrix: Soil Gas
IA1	1/30/25	10:48	12:48	OVER 30	6	68	68	-30	4.5	10550	10198	6 L	50	VL041615.D	1	1	

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 1/28/25	Canisters Received by:	Date/Time: 1-31-25 1242	B2501045 - 1
Samples Relinquished by: FM	Date/Time: 1/31/25	Received by:	Date/Time:	
Relinquished by:	Date/Time: 1-31-25 1313	Received by:	Date/Time:	

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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:	Q1256	**OrderDate:**	1/31/2025 12:48:00 PM
Client:	GFE LLC	**Project:**	2173 Clarendon Brooklyn, NY
Contact:	Frank Galdun	**Location:**	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1256-01	**SV1**	**Air**			**01/30/25**			**01/31/25**
			VOCMS Group3	TO-15			02/03/25	
Q1256-02	**IA1**	**Air**			**01/30/25**			**01/31/25**
			VOCMS Group3	TO-15			02/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1256

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1256

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1222-02DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	9.72	97	65	135
Q1256-01	SV1	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
Q1256-02	IA1	1-Bromo-4-Fluorobenzene	10	9.77	98	65	135
VL0203ABL02	VL0203ABL02	1-Bromo-4-Fluorobenzene	10	9.58	96	65	135
VL0203ABS01	VL0203ABS01	1-Bromo-4-Fluorobenzene	10	9.92	99	65	135

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1256

Client: GFE LLC

Analytical Method: SWTO-15 **Datafile :** VL041961.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0203ABS01	Vinyl Chloride	10	9.80	ppbv	98			70	130	
	1,1-Dichloroethene	10	9.20	ppbv	92			70	130	
	cis-1,2-Dichloroethene	10	9.90	ppbv	99			70	130	
	1,1,1-Trichloroethane	10	10.3	ppbv	103			70	130	
	Trichloroethene	10	11.0	ppbv	110			70	130	
	Tetrachloroethene	10	10.2	ppbv	102			70	130	

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Duplicate Sample Summary

Lab Sample Id :	Q1222-02DUP		Q1256-02	
Client Id :	IA1DUP		IA1	
DF :	1		1	
Datafile :	VL041968.D		VL041970.D	
Anal Date & Time :	02/03/2025	17:08	02/03/2025	18:15

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0.08	0	200 *
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1256 SAS No.: Q1256 SDG NO.: Q1256

Lab File ID: VL041968.D Lab Sample ID: Q1222-02DUP

Date Analyzed: 02/03/2025 Time Analyzed: 17:08

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
IA1DUP	Q1222-02DUP	VL041968.D	02/03/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0203ABL02

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1256 SAS No.: Q1256 SDG NO.: Q1256

Lab File ID: VL041960.D Lab Sample ID: VL0203ABL02

Date Analyzed: 02/03/2025 Time Analyzed: 12:05

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
VL0203ABS01	VL0203ABS01	VL041961.D	02/03/2025
SV1	Q1256-01	VL041964.D	02/03/2025
IA1	Q1256-02	VL041970.D	02/03/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1256 SAS No.: Q1256 SDG NO.: Q1256

Lab File ID: VL041887.D BFB Injection Date: 01/14/2025

Instrument ID: MSVOA_L BFB Injection Time: 07:50

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23
75	30.0 - 66.0% of mass 95	56.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	60
175	4.0 - 9.0% of mass 174	4.9 (8.2) 1
176	93.0 - 101.0% of mass 174	58.1 (96.8) 1
177	5.0 - 9.0% of mass 176	3.9 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL041889.D	01/14/2025	12:55
VSTDICC002	VSTDICC002	VL041890.D	01/14/2025	13:28
VSTDICC001	VSTDICC001	VL041891.D	01/14/2025	13:59
VSTDICC0.5	VSTDICC0.5	VL041892.D	01/14/2025	14:30
VSTDICC0.1	VSTDICC0.1	VL041893.D	01/14/2025	15:01
VSTDICC0.03	VSTDICC0.03	VL041894.D	01/14/2025	15:32
VSTDICC015	VSTDICC015	VL041895.D	01/14/2025	16:05

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1256 SAS No.: Q1256 SDG NO.: Q1256

Lab File ID: VL041957.D BFB Injection Date: 02/03/2025

Instrument ID: MSVOA_L BFB Injection Time: 09:47

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	54.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	58.4
175	4.0 - 9.0% of mass 174	4.5 (7.7) 1
176	93.0 - 101.0% of mass 174	57.2 (98) 1
177	5.0 - 9.0% of mass 176	3.8 (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	VL041958.D	02/03/2025	10:48
VL0203ABL02	VL0203ABL02	VL041960.D	02/03/2025	12:05
VL0203ABS01	VL0203ABS01	VL041961.D	02/03/2025	12:57
SV1	Q1256-01	VL041964.D	02/03/2025	14:59
IA1DUP	Q1222-02DUP	VL041968.D	02/03/2025	17:08
IA1	Q1256-02	VL041970.D	02/03/2025	18:15

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1256 SAS No.: Q1256 SDG NO.: Q1256

Lab File ID: VL041958.D Date Analyzed: 02/03/2025

Instrument ID: MSVOA_L Time Analyzed: 10:48

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	157470	2.79	429487	3.96	371333	8.89
UPPER LIMIT	220458	3.12	601282	4.29	519866	9.22
LOWER LIMIT	94482	2.46	257692	3.63	222800	8.56
EPA SAMPLE NO.						
IA1DUP	151310	2.80	428310	3.98	371013	8.89
SV1	156873	2.79	427312	3.97	382639	8.89
IA1	152639	2.80	421377	3.98	366996	8.90
VL0203ABL02	151198	2.79	407814	3.97	347345	8.89
VL0203ABS01	152847	2.79	418895	3.97	367437	8.88

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	GFE LLC	Date Collected:	01/30/25
Project:	2173 Clarendon Brooklyn, NY	Date Received:	01/31/25
Client Sample ID:	SV1	SDG No.:	Q1256
Lab Sample ID:	Q1256-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041964.D	4		02/03/25 14:59	VL020325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	0.060	0.41	U	0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	157000		2.793			
540-36-3	1,4-Difluorobenzene	427000		3.965			
3114-55-4	Chlorobenzene-d5	383000		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\VL020325\
Data File : VL041964.D
Acq On : 03 Feb 2025 14:59
Operator : SY/MD
Sample : Q1256-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:37:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	156873	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.965	114	427312	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.888	117	382639	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	307295	10.196	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	2701	0.126	ppbv		94
9) Propene	1.486	41	8818	0.956	ppbv		97
10) Heptane	4.988	43	3564m	0.145	ppbv		
13) Ethanol	1.725	45	1715m	2.539	ppbv		
15) Acetone	1.839	43	34978	1.856	ppbv	#	41
20) Methylene Chloride	2.065	84	2023	0.272	ppbv		86
26) Hexane	2.832	57	15618	0.777	ppbv	#	35
29) Chloroform	2.852	83	12571	0.396	ppbv		92
34) 2-Butanone	2.564	43	173530	6.386	ppbv		99
51) 2-Hexanone	7.457	43	20641m	0.724	ppbv		
53) Toluene	6.946	91	10474	0.245	ppbv		95
58) Ethyl Benzene	9.364	91	6571m	0.110	ppbv		
59) m/p-Xylene	9.539	91	13152m	0.274	ppbv		
60) o-Xylene	9.969	91	7401	0.156	ppbv		97
62) Isopropylbenzene	10.545	105	14479	0.197	ppbv		97
74) 1,2,4-Trimethylbenzene	11.539	105	9577	0.176	ppbv	#	48

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

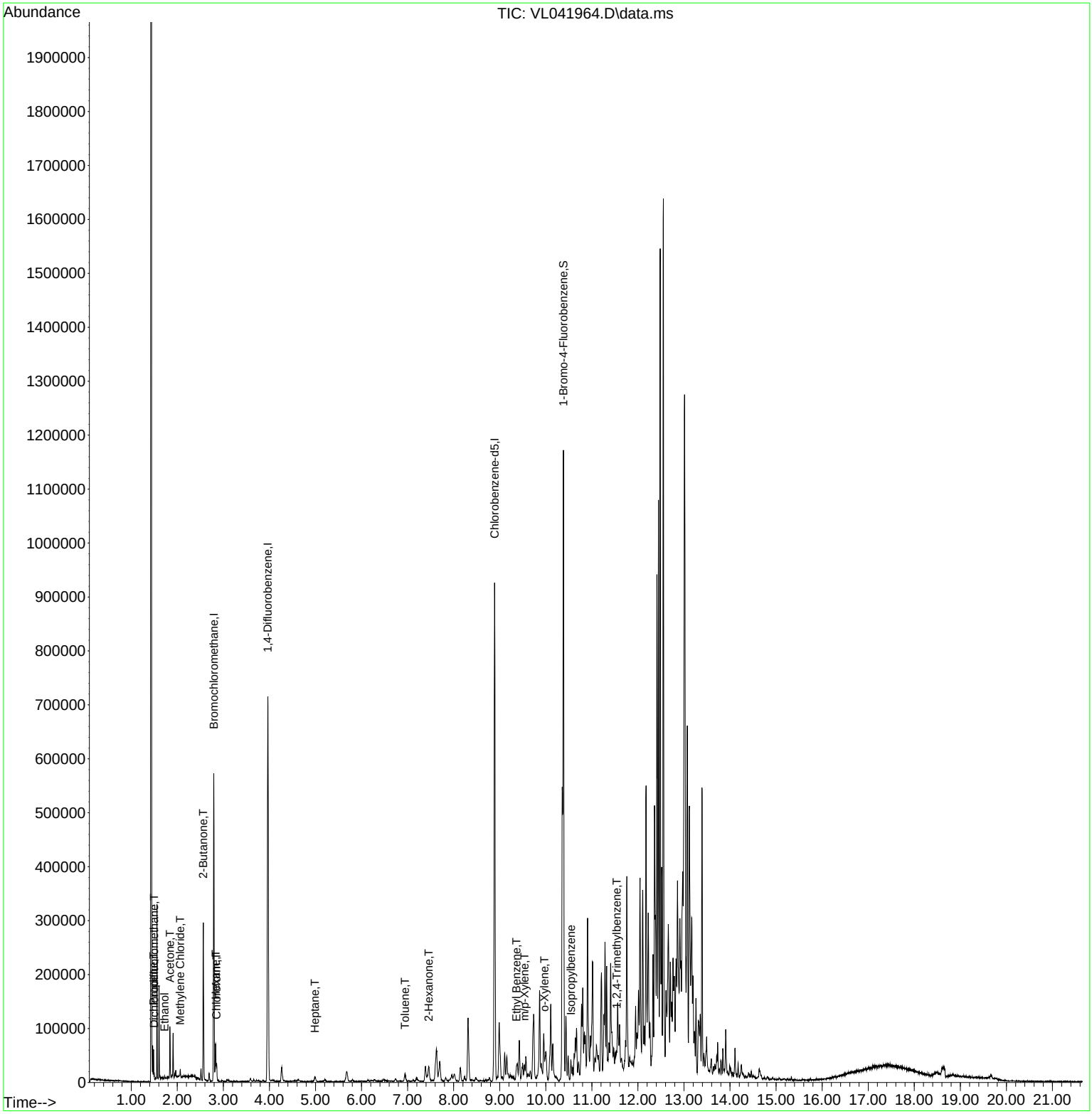
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041964.D
Acq On : 03 Feb 2025 14:59
Operator : SY/MD
Sample : Q1256-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

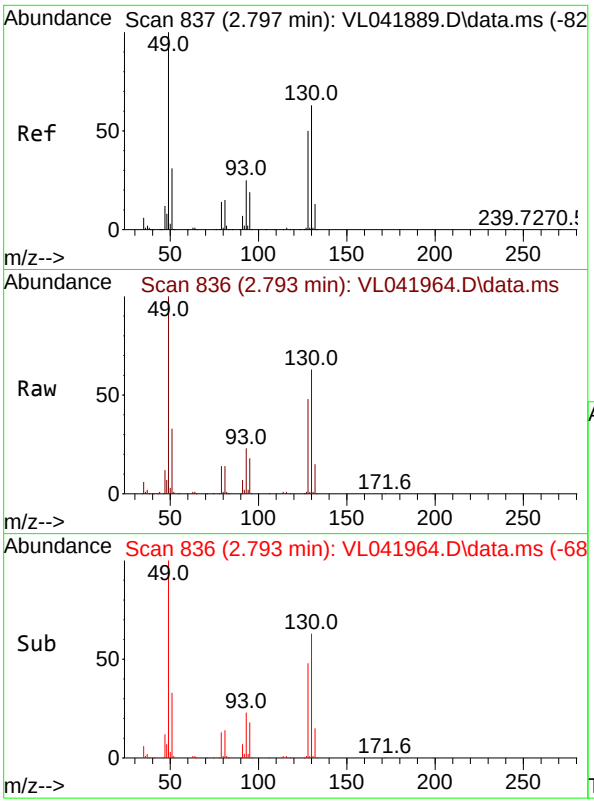
Quant Time: Feb 04 02:37:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. -0.004 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

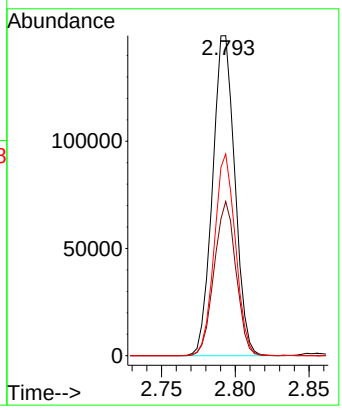
Tgt Ion: 49 Resp: 15687

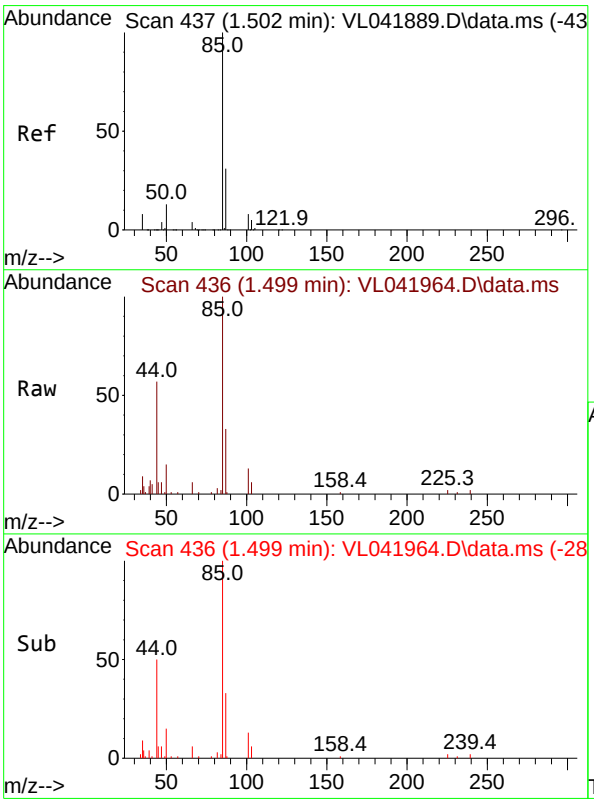
Ion	Ratio	Lower	Upper
49	100		
128	47.1	24.3	73.0
130	59.9	31.1	93.2

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

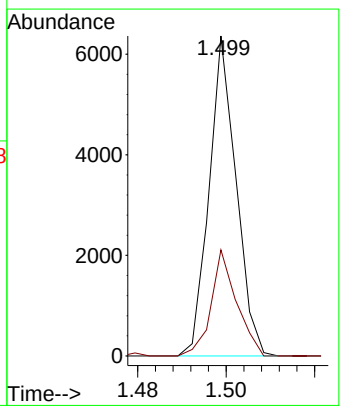


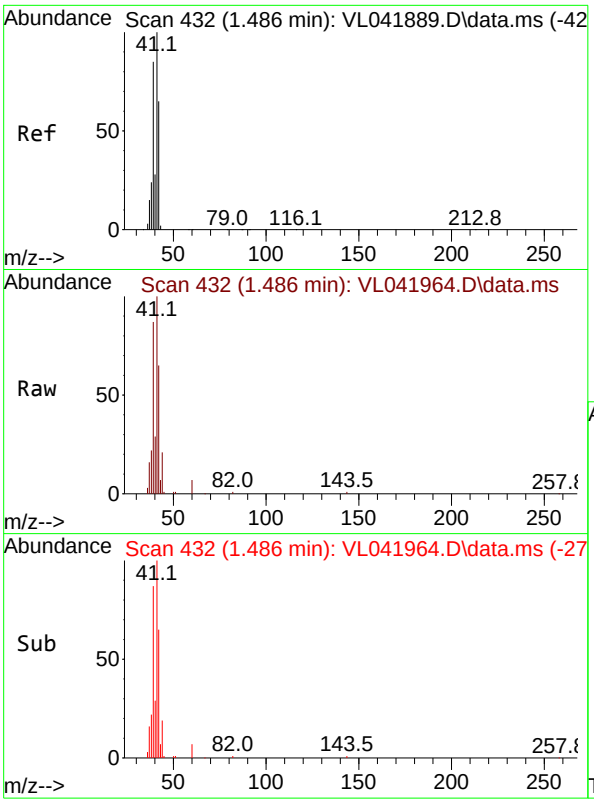


#2
Dichlorodifluoromethane
Concen: 0.126 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 85 Resp: 2701

Ion	Ratio	Lower	Upper
85	100		
87	34.6	24.9	37.3

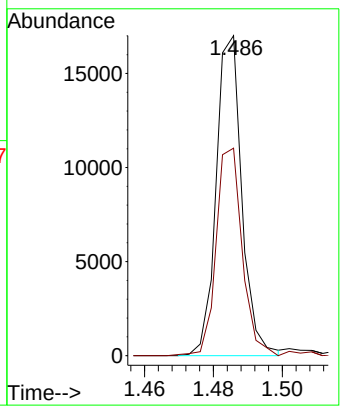




#9
Propene
Concen: 0.956 ppbv
RT: 1.486 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 41 Resp: 881

Ion	Ratio	Lower	Upper
41	100		
42	67.2	52.0	78.0



Instrument :
MSVOA_L
ClientSampleId :
SV1

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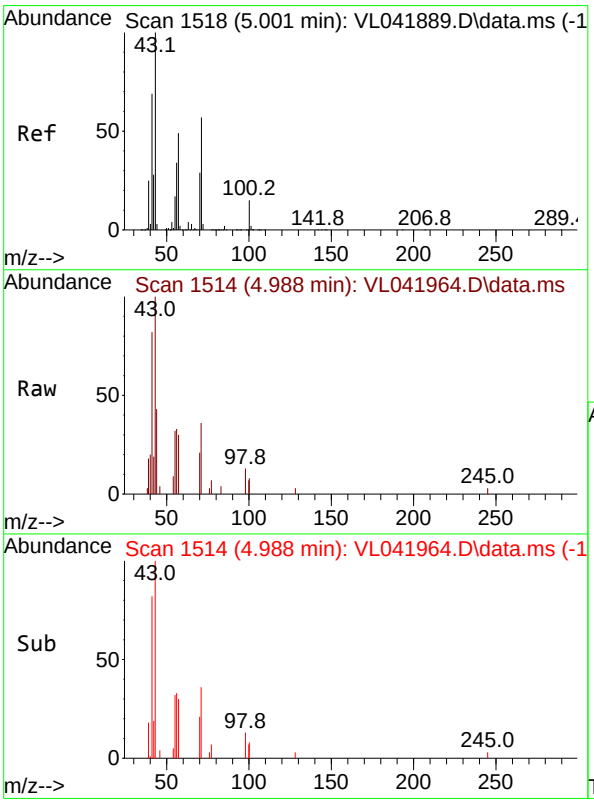
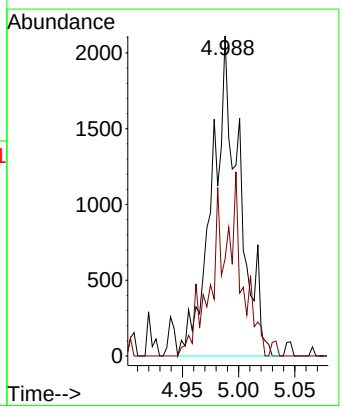
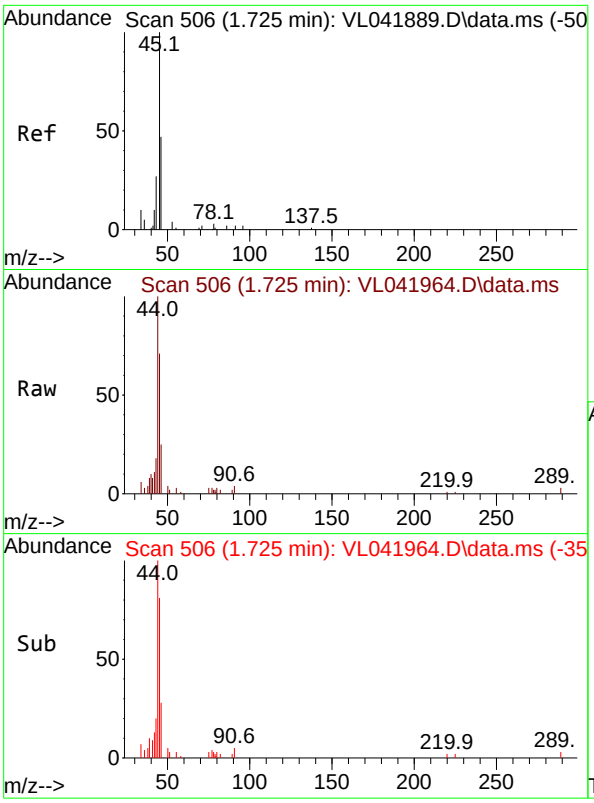


#10
Heptane
Concen: 0.145 ppbv m
RT: 4.988 min Scan# 1514
Delta R.T. -0.013 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 43 Resp: 3564

Ion	Ratio	Lower	Upper
43	100		
57	54.5	41.0	61.4





#13
Ethanol
Concen: 2.539 ppbv m
RT: 1.725 min Scan# 5(
Delta R.T. 0.000 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 45 Resp: 171

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.1	72.5#

Instrument :
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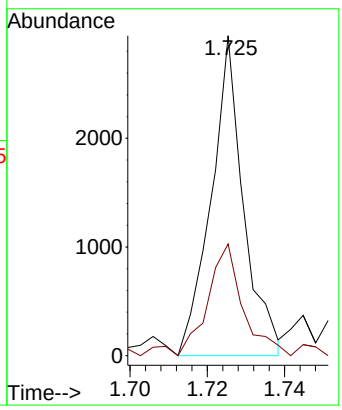
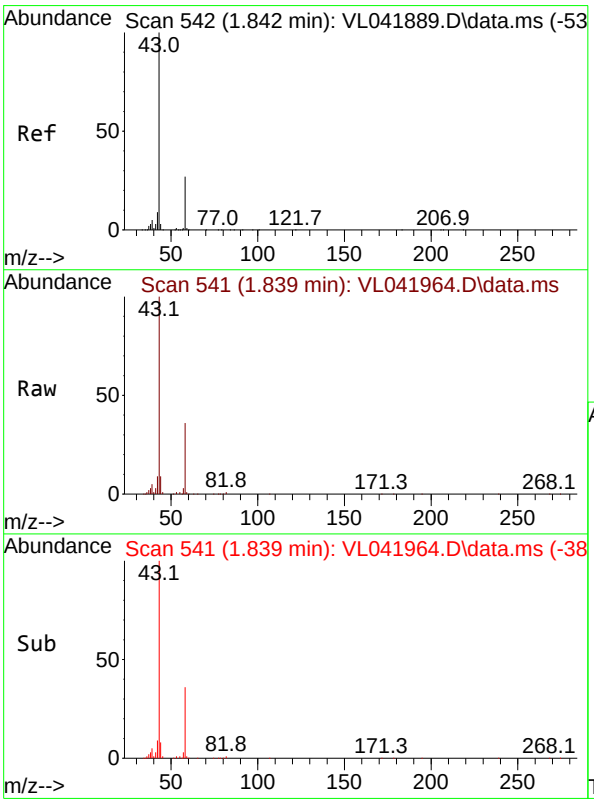
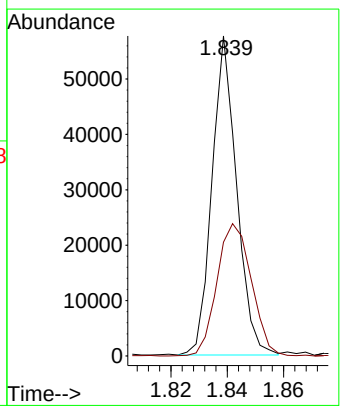


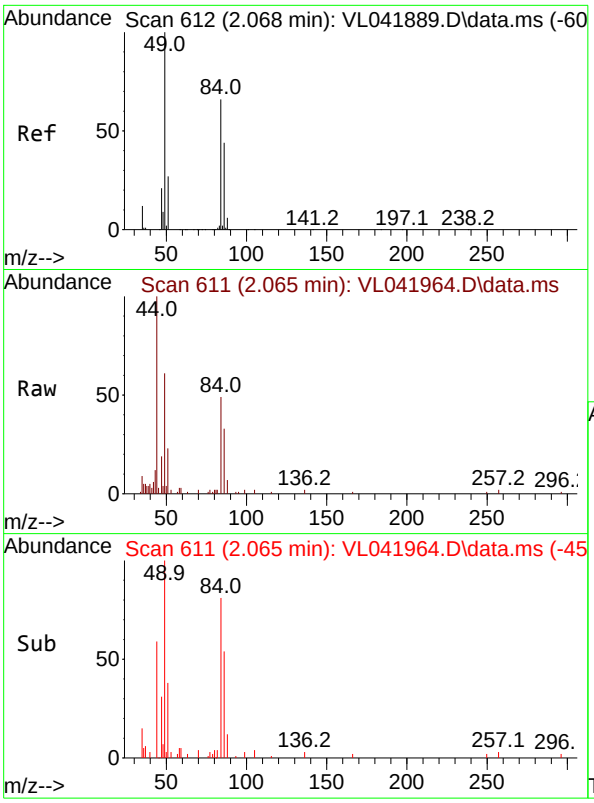


#15
Acetone
Concen: 1.856 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 43 Resp: 34978

Ion	Ratio	Lower	Upper
43	100		
58	58.3	21.9	32.9#

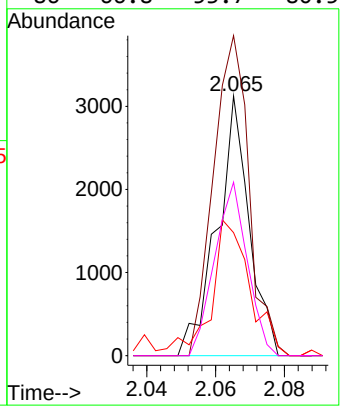




#20
Methylene Chloride
Concen: 0.272 ppbv
RT: 2.065 min Scan# 6
Delta R.T. -0.003 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 84 Resp: 202

Ion	Ratio	Lower	Upper
84	100		
49	123.2	123.1	184.7
51	44.0	35.8	53.8
86	66.8	53.7	80.5



Instrument :
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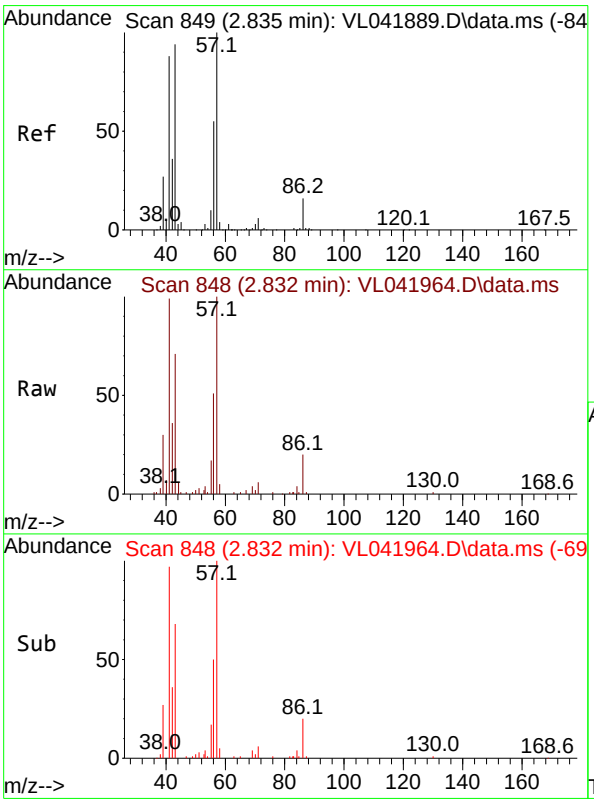
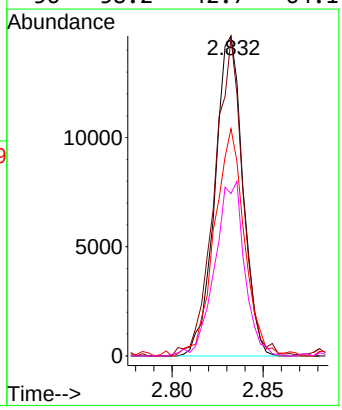
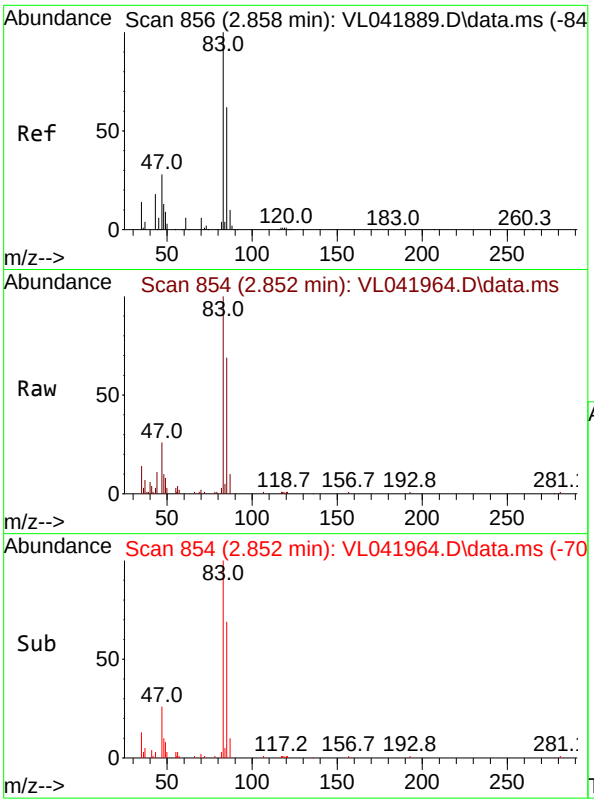


#26
Hexane
Concen: 0.777 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 57 Resp: 15618

Ion	Ratio	Lower	Upper
57	100		
41	101.7	73.8	110.8
43	76.4	197.3	295.9#
56	58.2	42.7	64.1





#29
Chloroform
Concen: 0.396 ppbv
RT: 2.852 min Scan# 8
Delta R.T. -0.006 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 83 Resp: 1257

Ion	Ratio	Lower	Upper
83	100		
85	68.7	50.1	75.1

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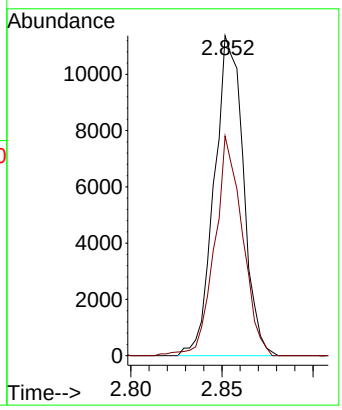
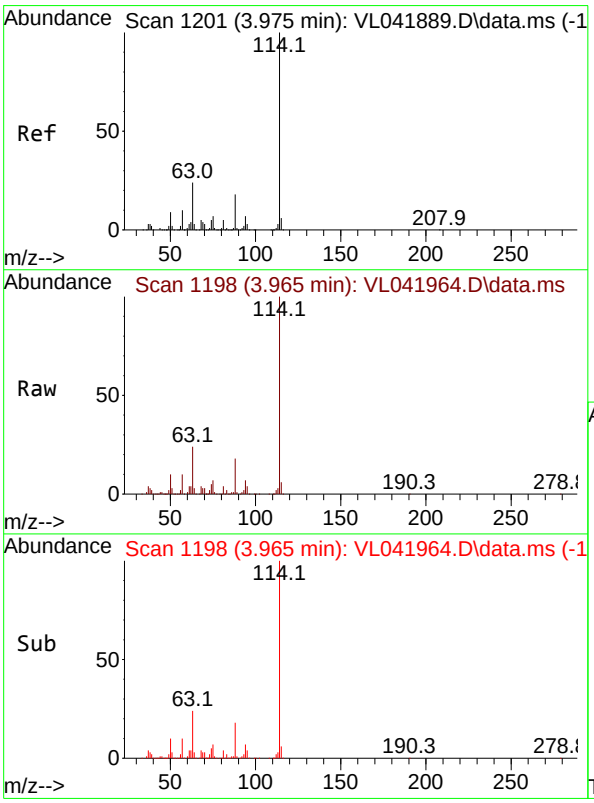
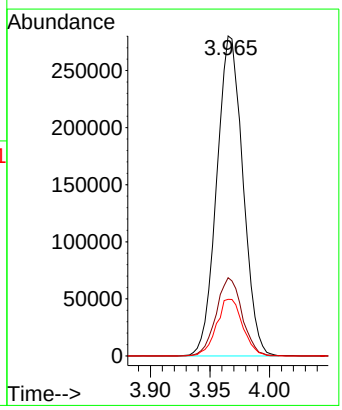


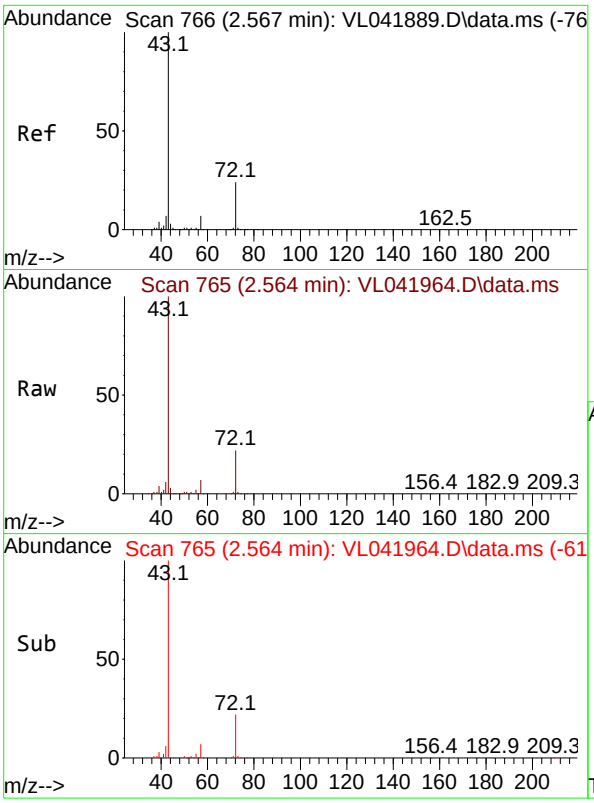


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.010 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion:114 Resp: 427312

Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.8	29.6
88	17.8	14.4	21.6

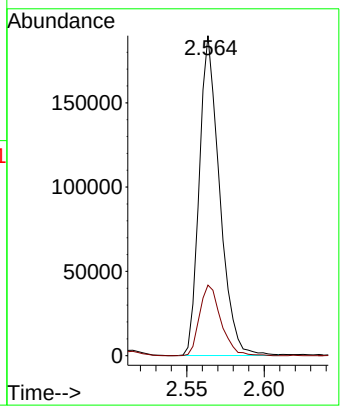




#34
2-Butanone
Concen: 6.386 ppbv
RT: 2.564 min Scan# 7
Delta R.T. -0.003 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 43 Resp: 17353

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.6	28.0



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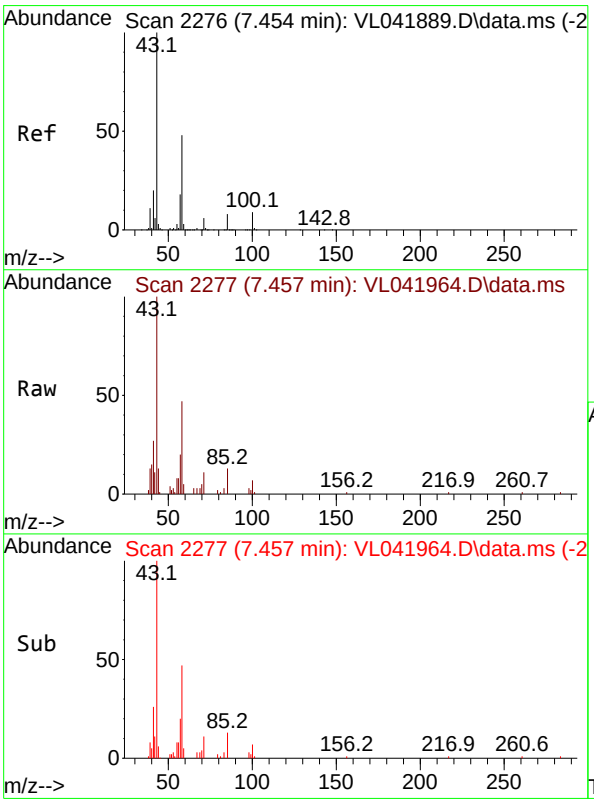
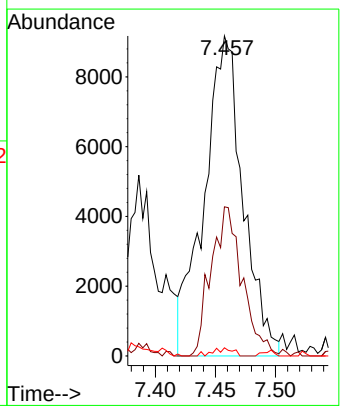
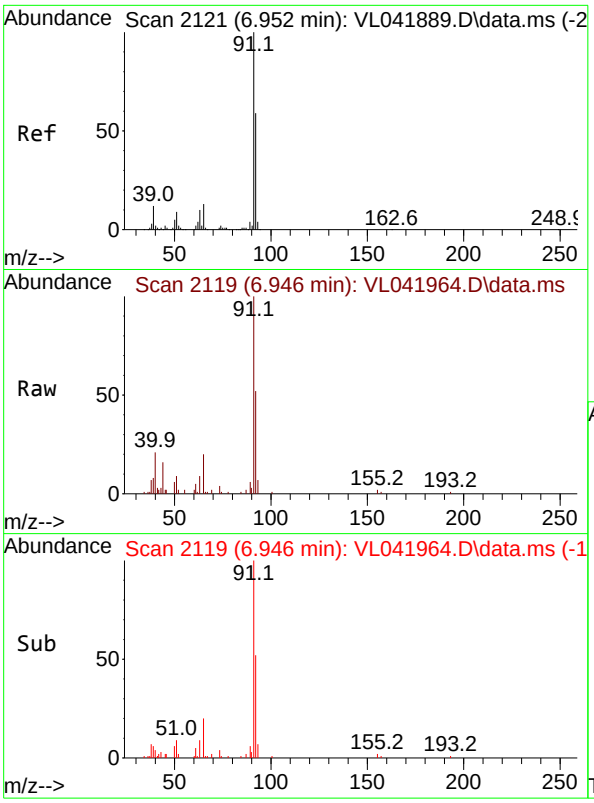


#51
2-Hexanone
Concen: 0.724 ppbv m
RT: 7.457 min Scan# 2277
Delta R.T. 0.003 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 43 Resp: 20641

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.4	60.6#
98	0.0	0.2	0.2#





#53
Toluene
Concen: 0.245 ppbv
RT: 6.946 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 91 Resp: 1047

Ion	Ratio	Lower	Upper
91	100		
92	63.3	47.4	71.0

Instrument :
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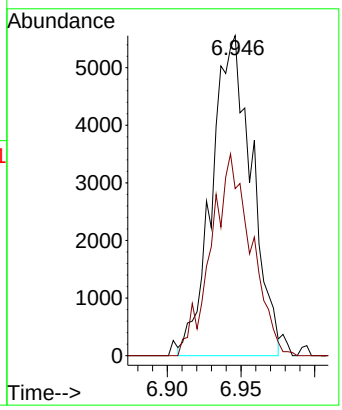
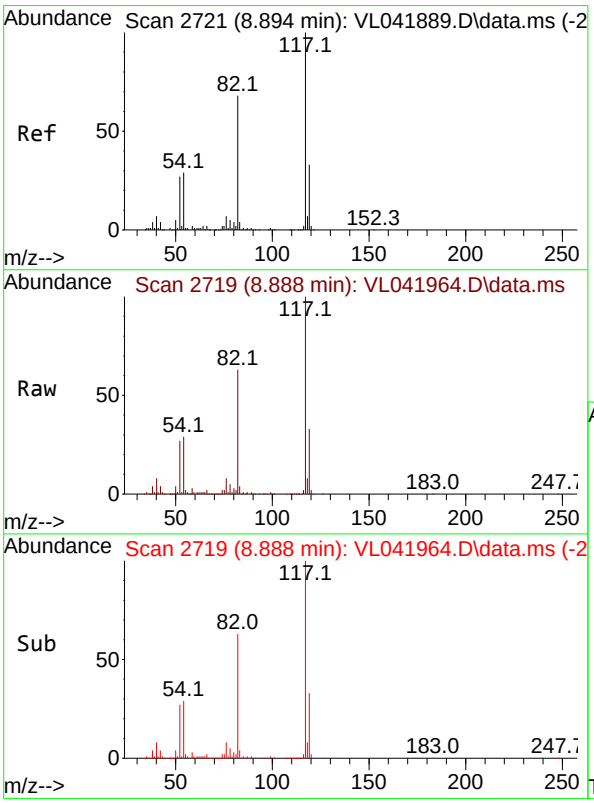
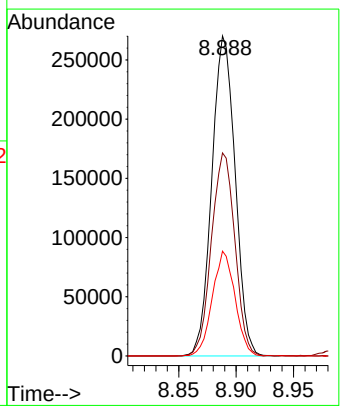


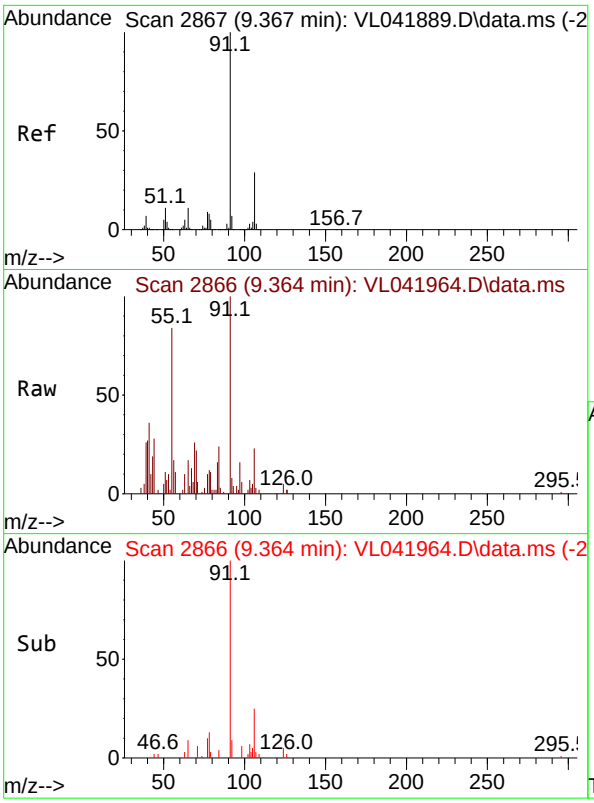


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.006 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion:117 Resp: 382639

Ion	Ratio	Lower	Upper
117	100		
82	63.7	54.2	81.4
119	31.9	25.0	37.6





#58
Ethyl Benzene
Concen: 0.110 ppbv m
RT: 9.364 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 91 Resp: 657

Ion	Ratio	Lower	Upper
91	100		
106	23.5	23.1	34.7

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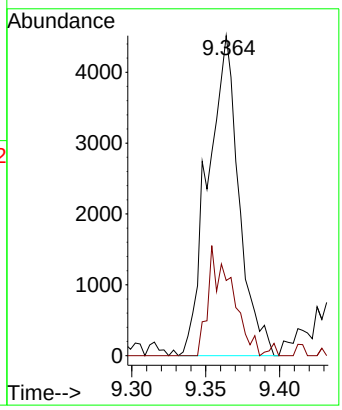
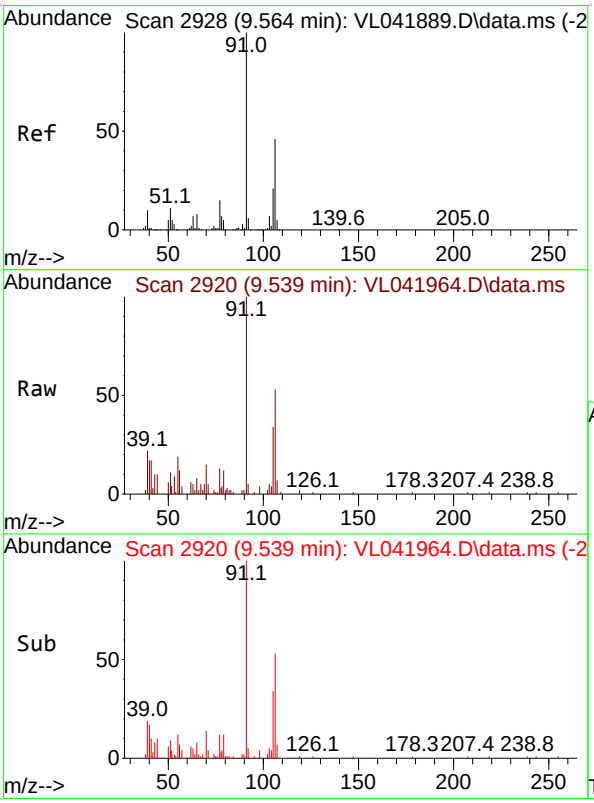
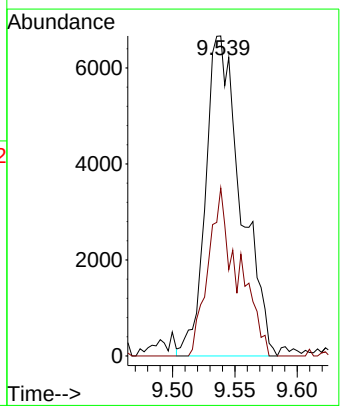


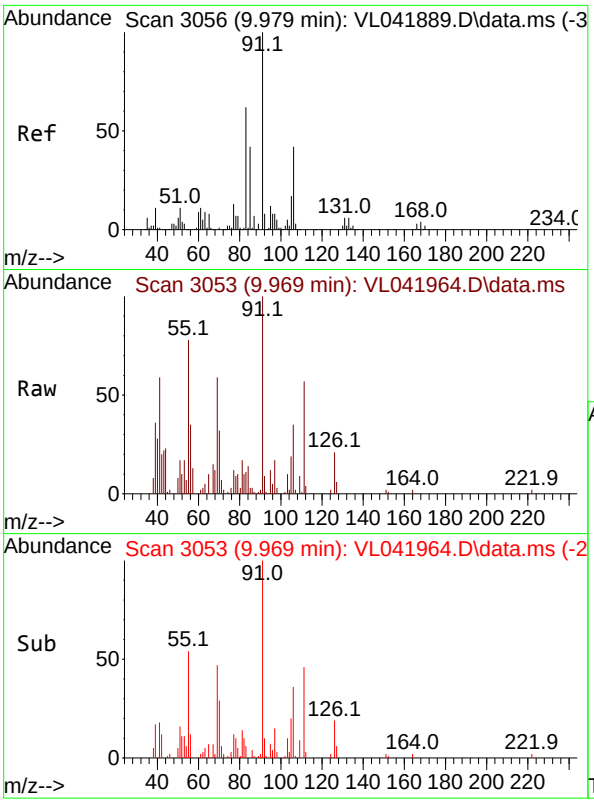


#59
m/p-Xylene
Concen: 0.274 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. -0.026 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 91 Resp: 13152

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.0	54.0#

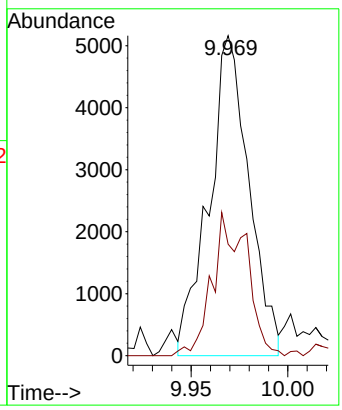




#60
o-Xylene
Concen: 0.156 ppbv
RT: 9.969 min Scan# 3
Delta R.T. -0.010 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 91 Resp: 740

Ion	Ratio	Lower	Upper
91	100		
106	40.5	21.3	63.9



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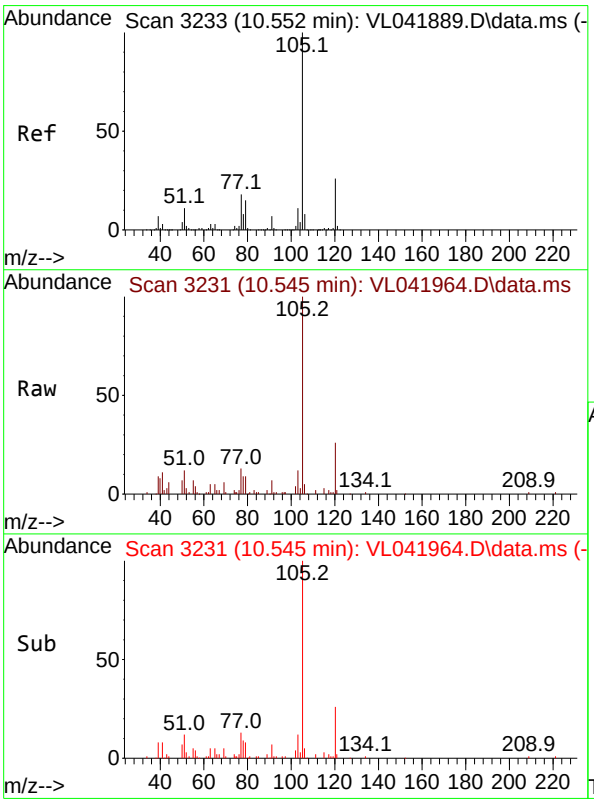
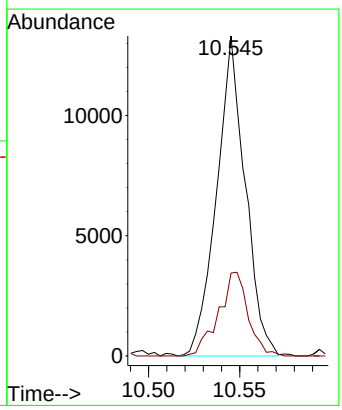
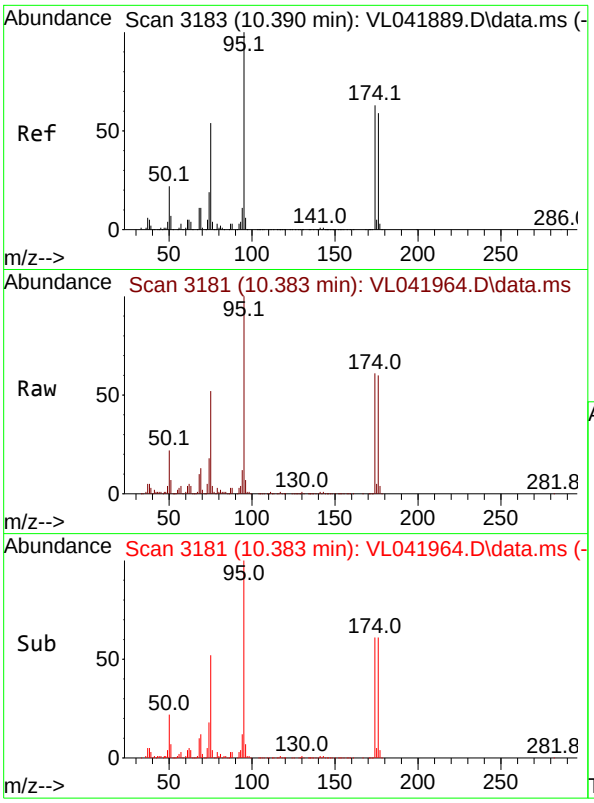


#62
Isopropylbenzene
Concen: 0.197 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.006 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion:105 Resp: 14479

Ion	Ratio	Lower	Upper
105	100		
120	27.0	20.3	30.5

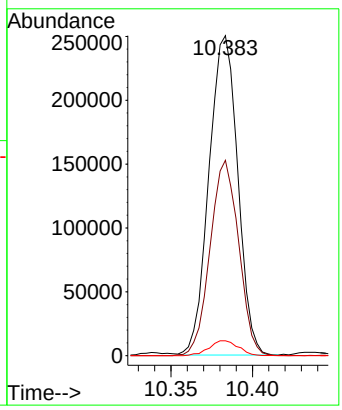




#68
1-Bromo-4-Fluorobenzene
Concen: 10.196 ppbv
RT: 10.383 min Scan# 3
Delta R.T. -0.006 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion: 95 Resp: 30729

Ion	Ratio	Lower	Upper
95	100		
174	60.5	49.0	73.4
175	4.8	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
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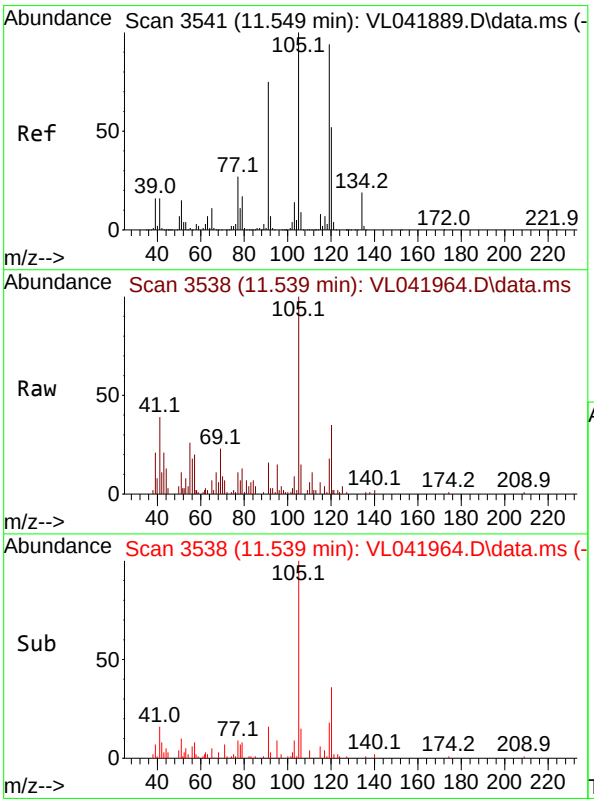
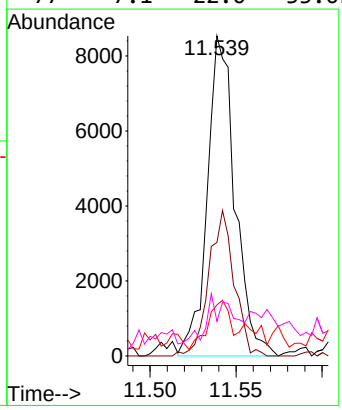


#74
1,2,4-Trimethylbenzene
Concen: 0.176 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.010 min
Lab File: VL041964.D
Acq: 03 Feb 2025 14:59

Tgt Ion:105 Resp: 9577

Ion	Ratio	Lower	Upper
105	100		
120	37.0	41.4	62.2#
91	9.2	60.2	90.2#
77	7.1	22.0	33.0#



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

Report of Analysis

Client:	GFE LLC	Date Collected:	01/30/25
Project:	2173 Clarendon Brooklyn, NY	Date Received:	01/31/25
Client Sample ID:	IA1	SDG No.:	Q1256
Lab Sample ID:	Q1256-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041970.D	1		02/03/25 18:15	VL020325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	153000		2.797			
540-36-3	1,4-Difluorobenzene	421000		3.975			
3114-55-4	Chlorobenzene-d5	367000		8.898			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041970.D
Acq On : 03 Feb 2025 18:15
Operator : SY/MD
Sample : Q1256-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	152639	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.975	114	421377	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	366996	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	282500	9.773	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	9072	0.436	ppbv		97
4) Chloromethane	1.538	50	3669	0.469	ppbv		95
9) Propene	1.492	41	12419m	1.384	ppbv		
10) Heptane	4.998	43	3254m	0.136	ppbv		
11) Trichlorofluoromethane	1.884	101	4520	0.209	ppbv		89
13) Ethanol	1.725	45	135626	206.367	ppbv		88
15) Acetone	1.842	43	1455087	79.369	ppbv	#	88
19) Isopropyl Alcohol	1.894	45	390002	35.878	ppbv	#	1
20) Methylene Chloride	2.068	84	2806	0.387	ppbv		92
26) Hexane	2.839	57	7438	0.380	ppbv	#	56
34) 2-Butanone	2.570	43	7294	0.272	ppbv		94
35) Carbon Tetrachloride	3.784	117	2627m	0.099	ppbv		
36) Benzene	3.674	78	15092	0.390	ppbv	#	92
44) 2,2,4-Trimethylpentane	4.661	57	9955	0.159	ppbv	#	66
53) Toluene	6.953	91	24588	0.584	ppbv		98
59) m/p-Xylene	9.545	91	11898	0.259	ppbv		90
60) o-Xylene	9.979	91	5246	0.115	ppbv		95
74) 1,2,4-Trimethylbenzene	11.549	105	6099	0.117	ppbv	#	58
76) 1,4-Dichlorobenzene	11.685	146	10034	0.332	ppbv		92

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041970.D
Acq On : 03 Feb 2025 18:15
Operator : SY/MD
Sample : Q1256-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations APPROVED

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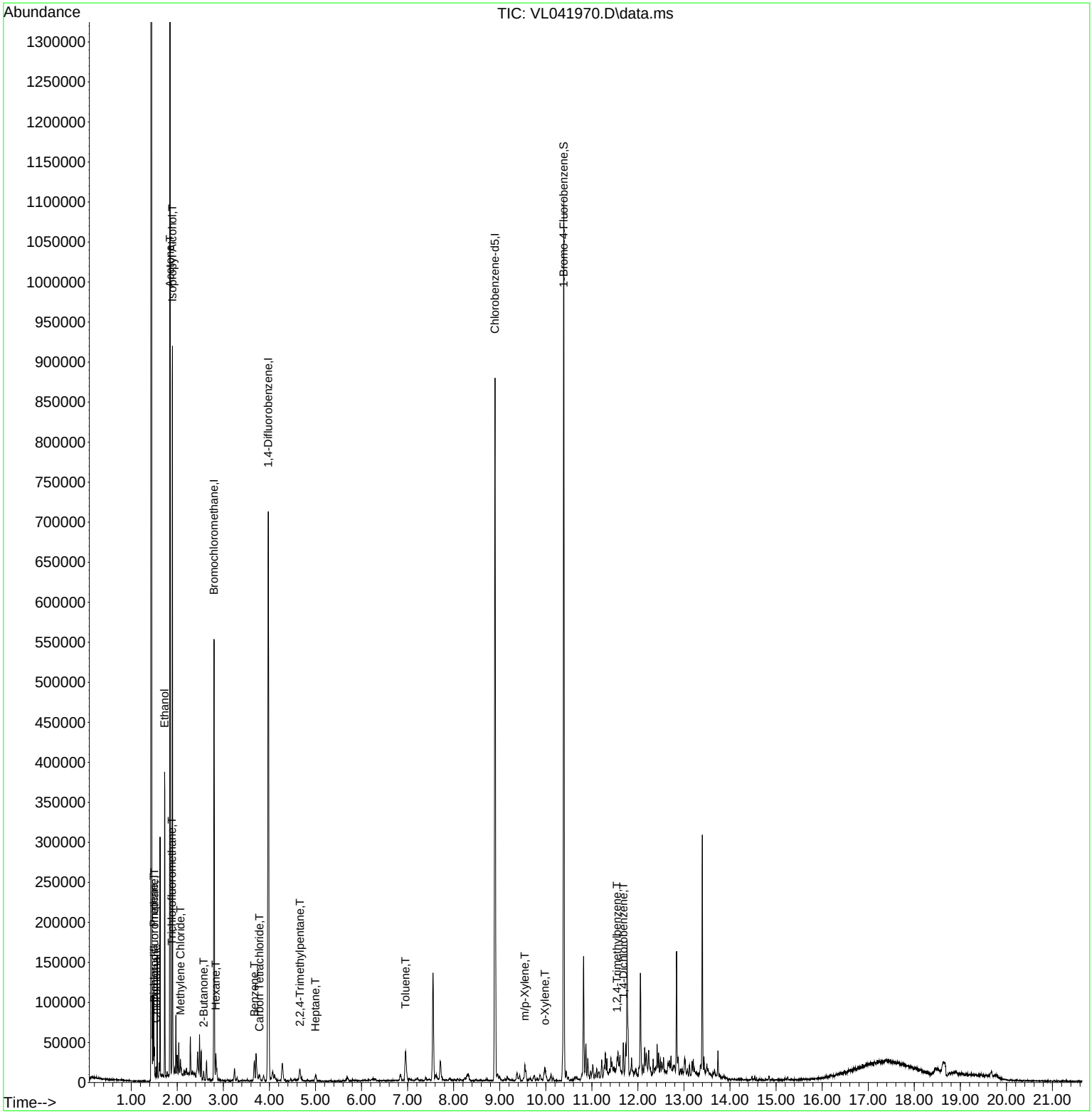
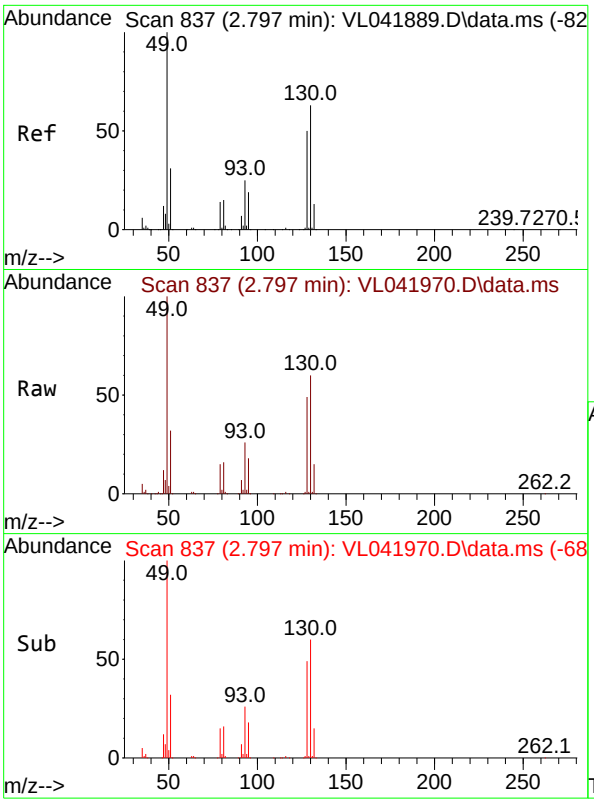
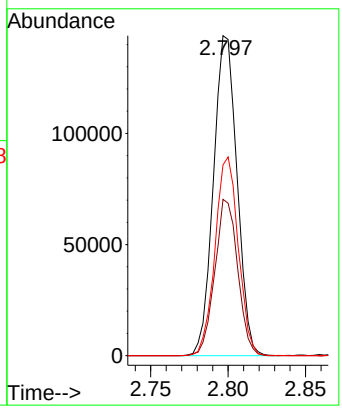




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. -0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 49 Resp: 15263

Ion	Ratio	Lower	Upper
49	100		
128	47.4	24.3	73.0
130	61.1	31.1	93.2



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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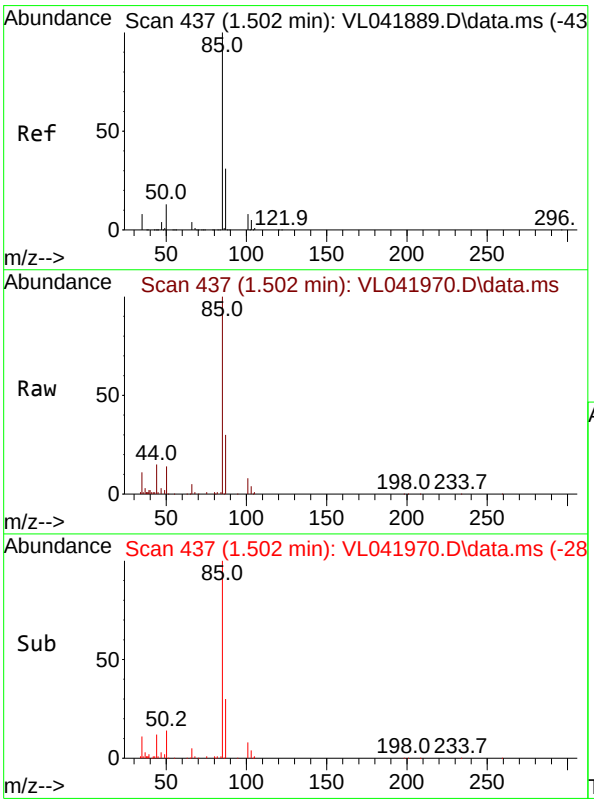
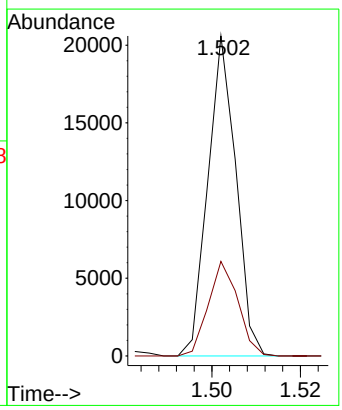
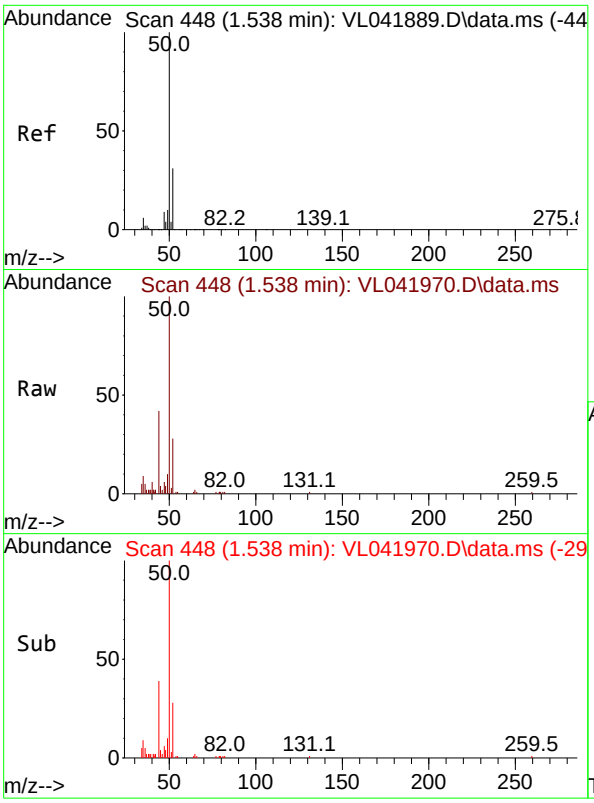


#2
Dichlorodifluoromethane
Concen: 0.436 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 85 Resp: 9072

Ion	Ratio	Lower	Upper
85	100		
87	29.6	24.9	37.3

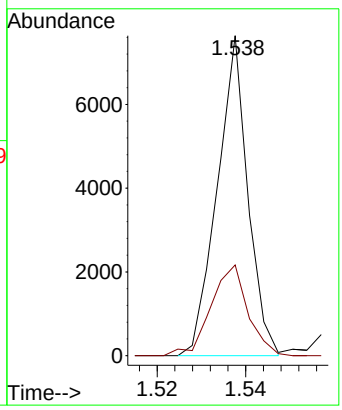




#4
Chloromethane
Concen: 0.469 ppbv
RT: 1.538 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 50 Resp: 366

Ion	Ratio	Lower	Upper
50	100		
52	28.0	24.6	36.8



Instrument :
MSVOA_L
ClientSampleId :
IA1

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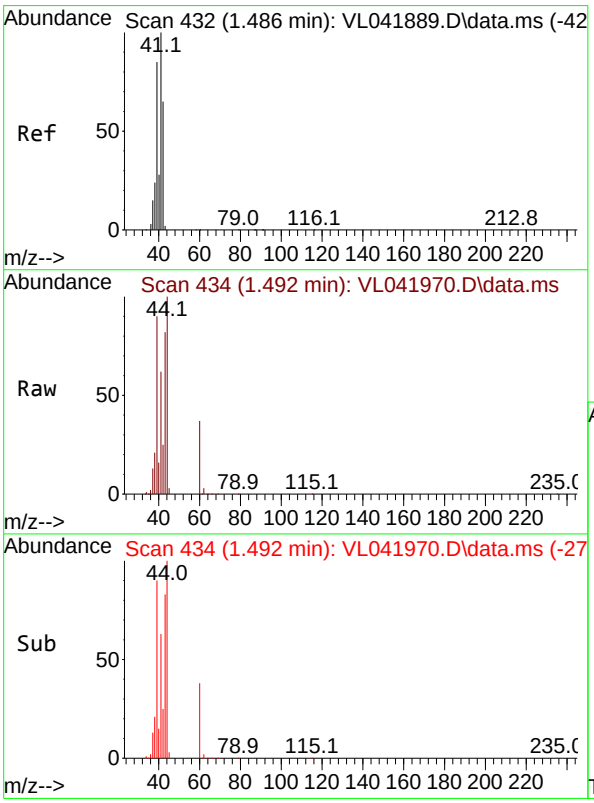
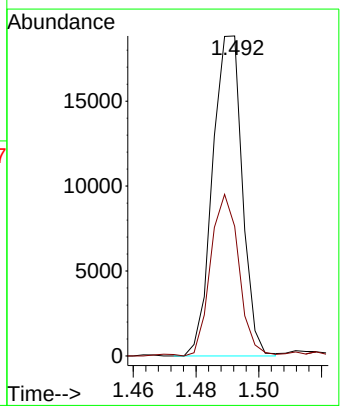
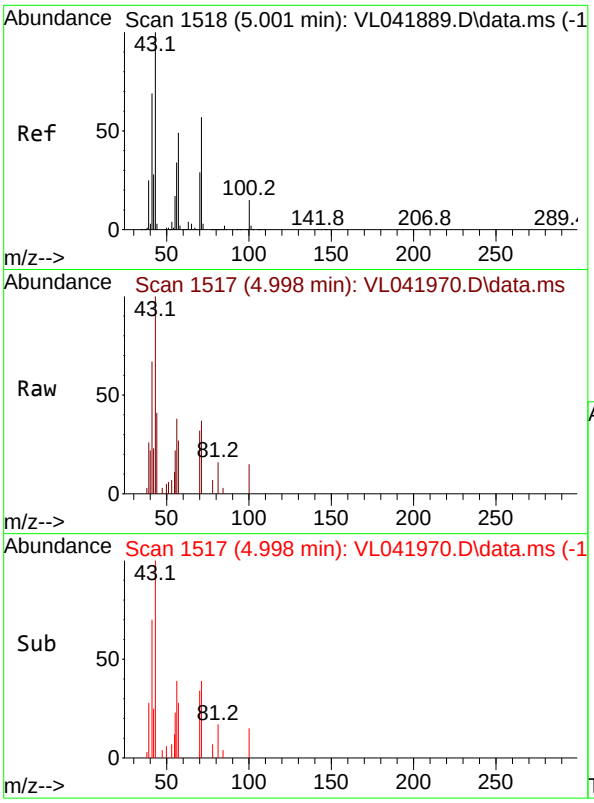


#9
Propene
Concen: 1.384 ppbv m
RT: 1.492 min Scan# 434
Delta R.T. 0.007 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 41 Resp: 12419

Ion	Ratio	Lower	Upper
41	100		
42	83.0	52.0	78.0#





#10
Heptane
Concen: 0.136 ppbv m
RT: 4.998 min Scan# 1
Delta R.T. -0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 43 Resp: 325

Ion	Ratio	Lower	Upper
43	100		
57	41.8	41.0	61.4

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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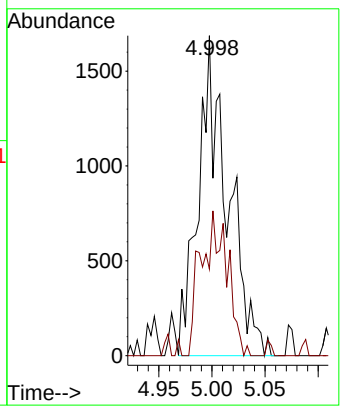
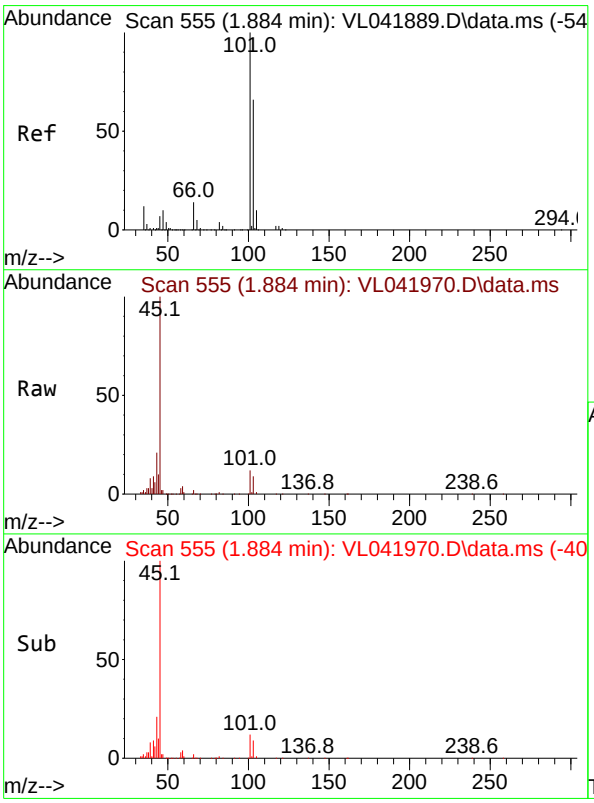
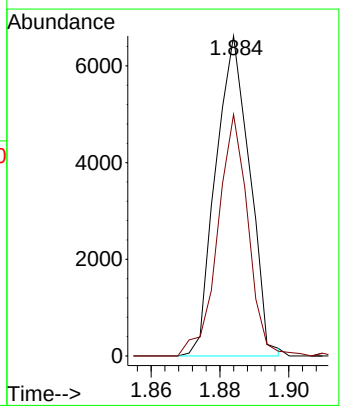


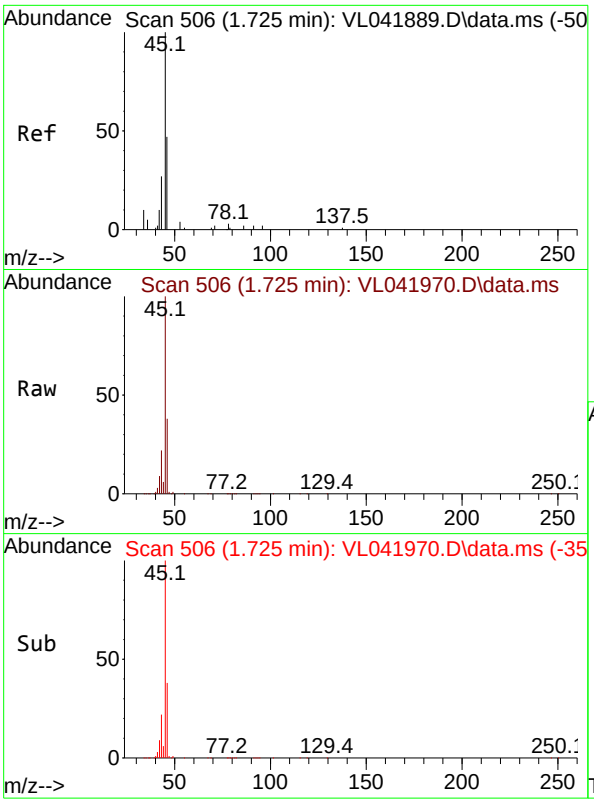


#11
Trichlorofluoromethane
Concen: 0.209 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion:101 Resp: 4520

Ion	Ratio	Lower	Upper
101	100		
103	75.4	53.1	79.7

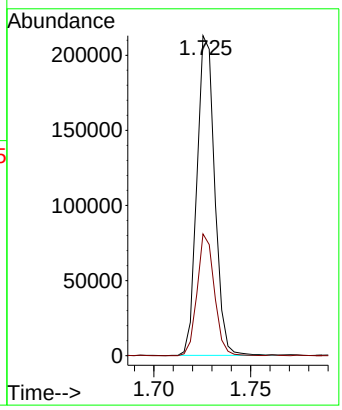




#13
Ethanol
Concen: 206.367 ppbv
RT: 1.725 min Scan# 5(
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 45 Resp: 13562(

Ion	Ratio	Lower	Upper
45	100		
46	37.5	18.1	72.5



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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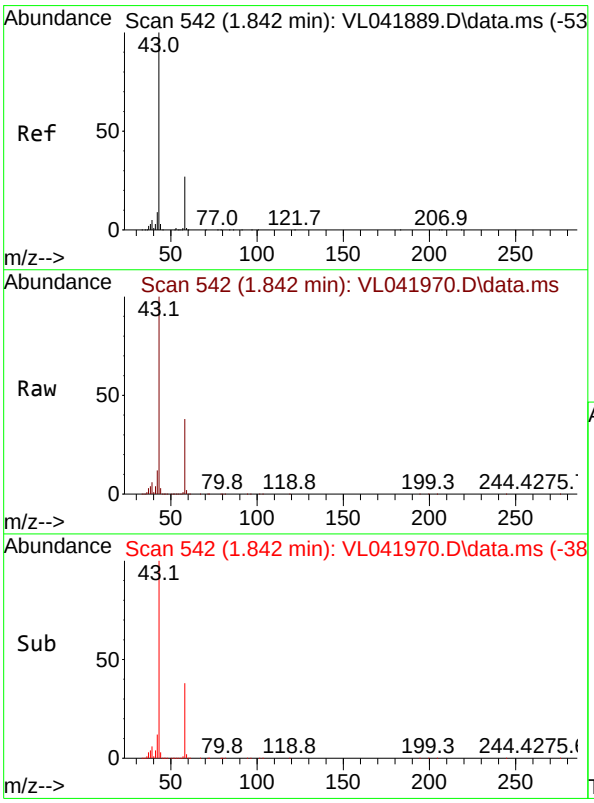
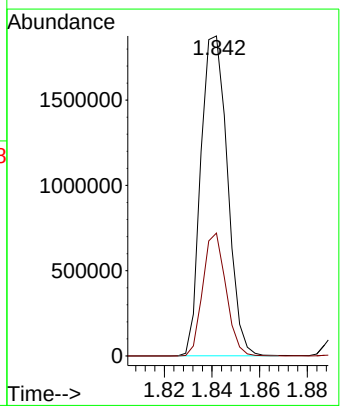
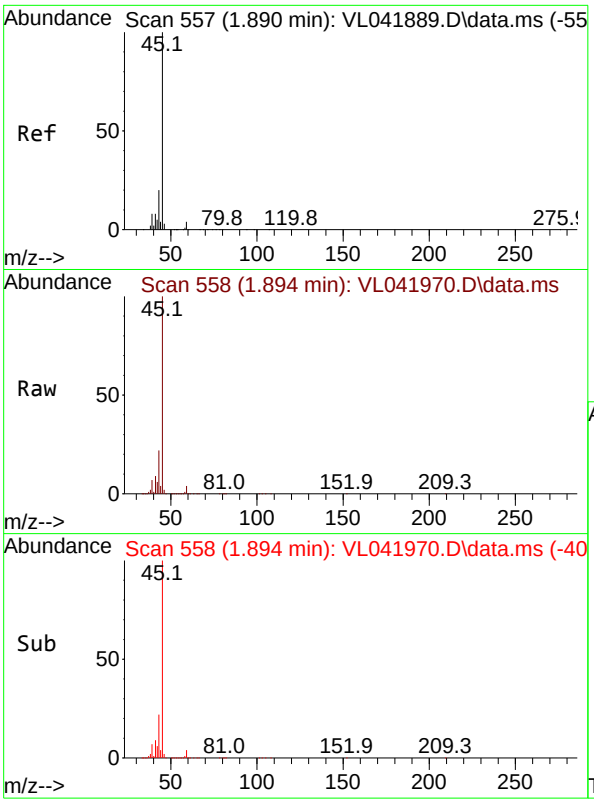


#15
Acetone
Concen: 79.369 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 43 Resp: 1455087

Ion	Ratio	Lower	Upper
43	100		
58	33.5	21.9	32.9#





#19
Isopropyl Alcohol
Concen: 35.878 ppbv
RT: 1.894 min Scan# 5
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 45 Resp: 39000

Ion	Ratio	Lower	Upper
45	100		
58	124.9	35.0	52.6

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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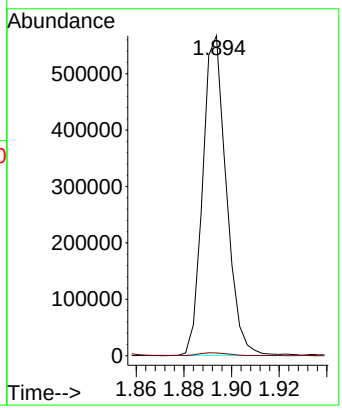
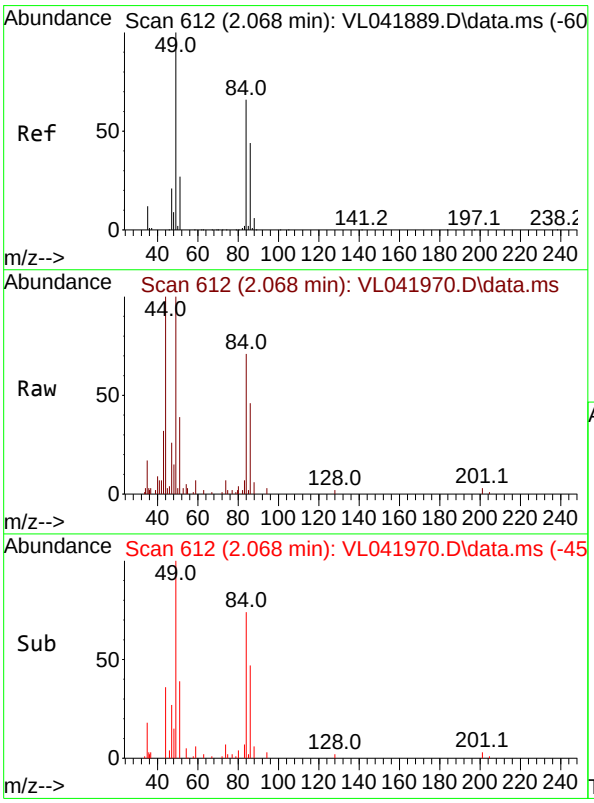
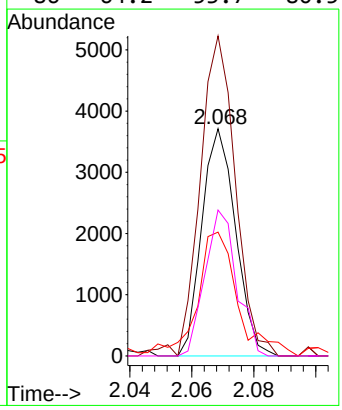


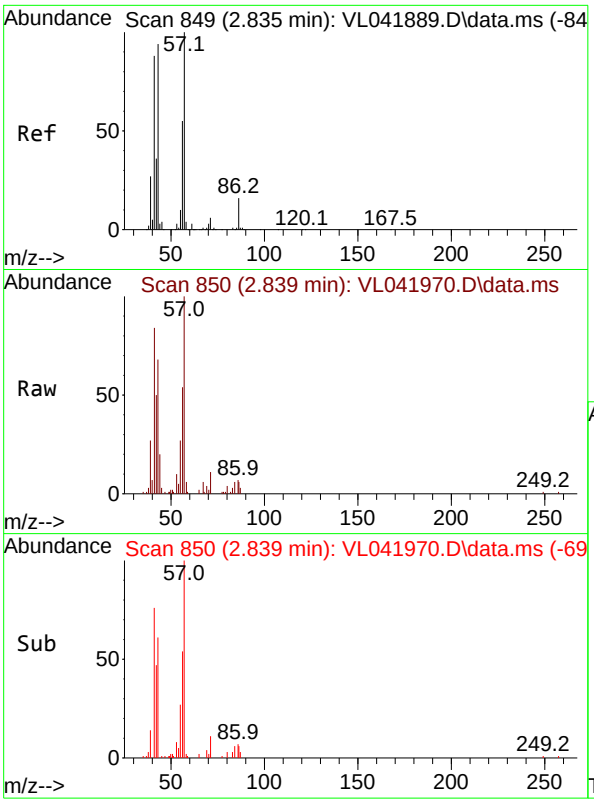


#20
Methylene Chloride
Concen: 0.387 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 84 Resp: 2806

Ion	Ratio	Lower	Upper
84	100		
49	140.8	123.1	184.7
51	48.5	35.8	53.8
86	64.2	53.7	80.5

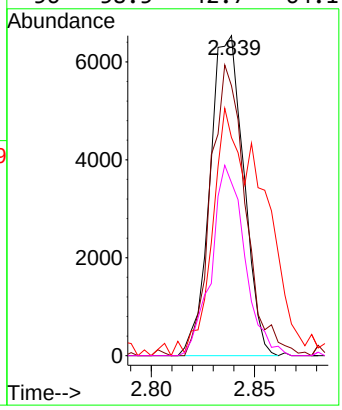




#26
Hexane
Concen: 0.380 ppbv
RT: 2.839 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 57 Resp: 743

Ion	Ratio	Lower	Upper
57	100		
41	93.3	73.8	110.8
43	128.7	197.3	295.9
56	58.5	42.7	64.1



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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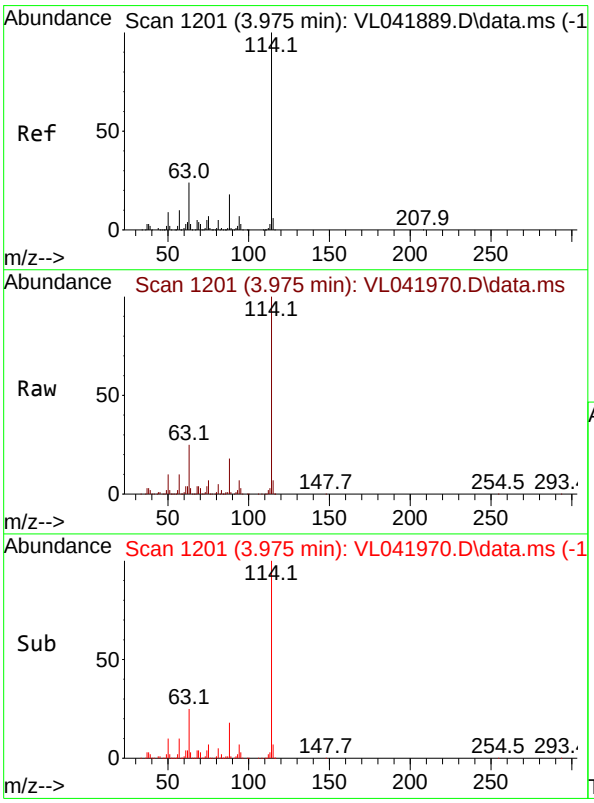
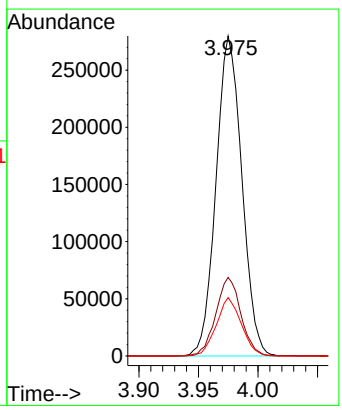
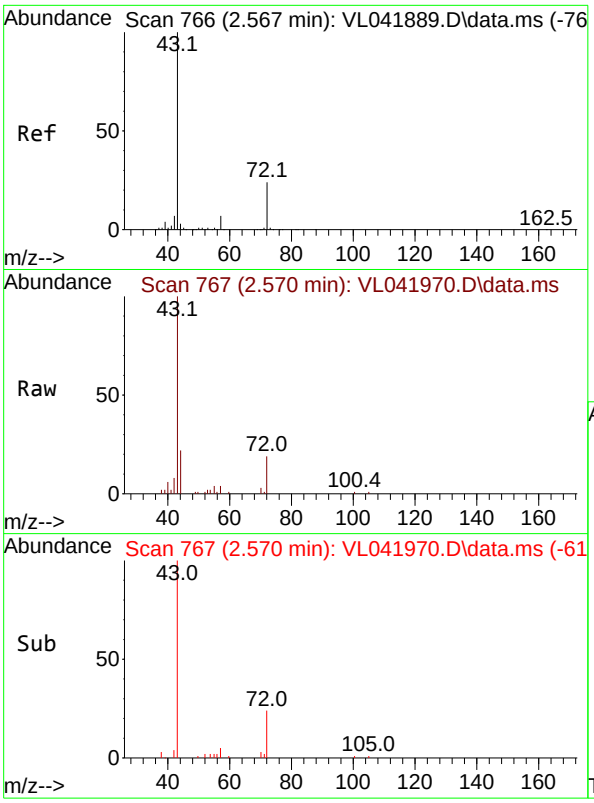


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion:114 Resp: 421377

Ion	Ratio	Lower	Upper
114	100		
63	23.9	19.8	29.6
88	17.6	14.4	21.6





#34
2-Butanone
Concen: 0.272 ppbv
RT: 2.570 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 43 Resp: 729

Ion	Ratio	Lower	Upper
43	100		
72	20.4	18.6	28.0

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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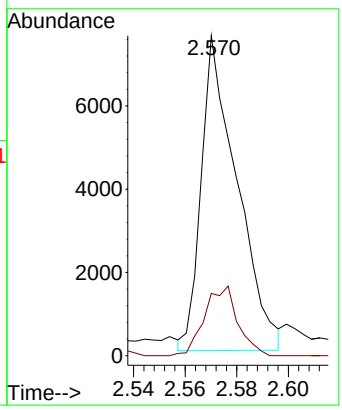
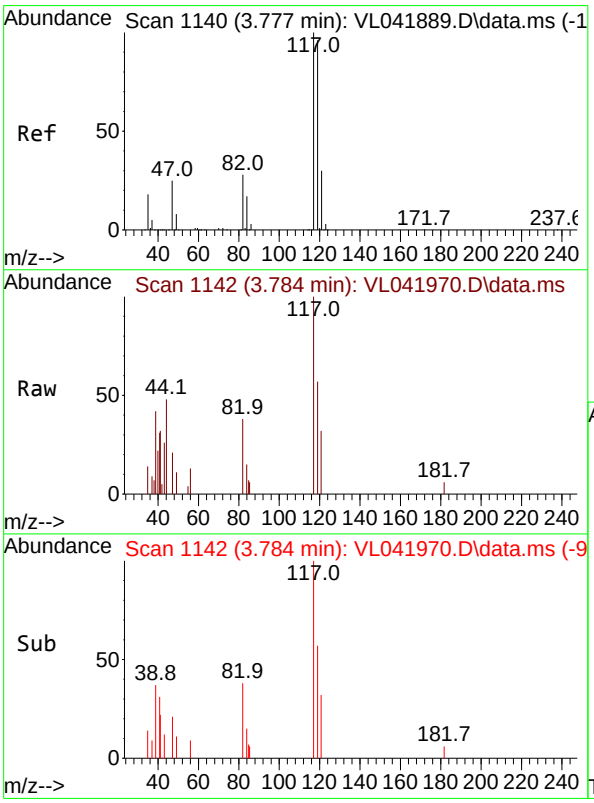
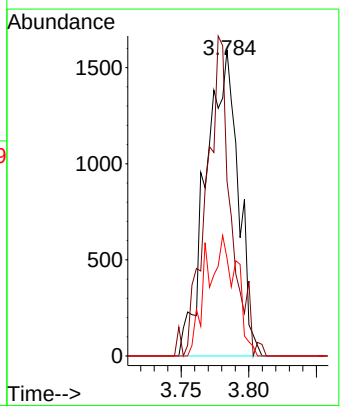


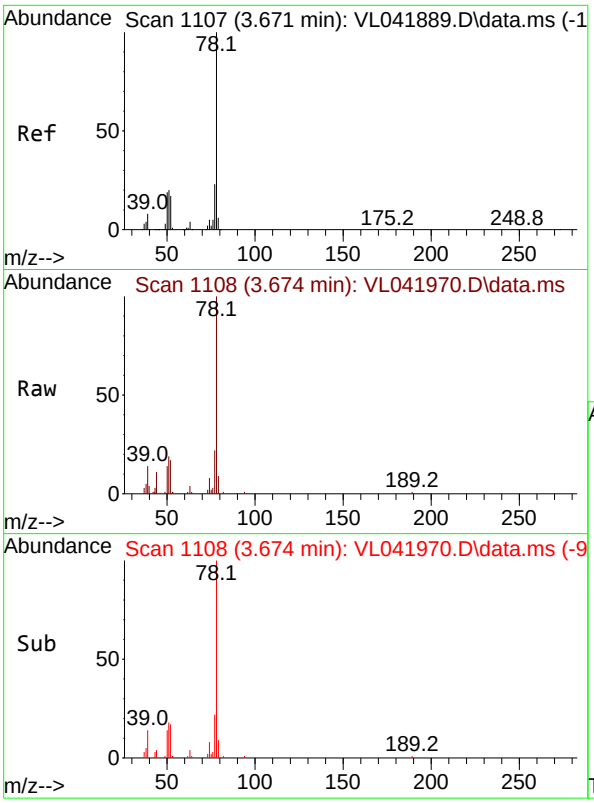


#35
Carbon Tetrachloride
Concen: 0.099 ppbv m
RT: 3.784 min Scan# 1142
Delta R.T. 0.007 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion:117 Resp: 2627

Ion	Ratio	Lower	Upper
117	100		
119	57.2	76.9	115.3#
121	32.0	23.8	35.6

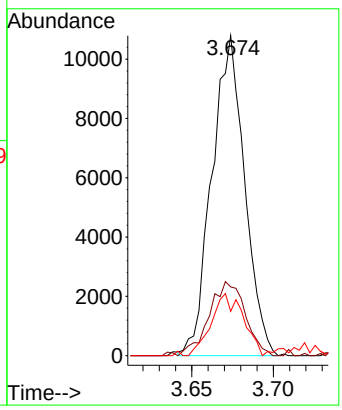




#36
Benzene
Concen: 0.390 ppbv
RT: 3.674 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 78 Resp: 1509

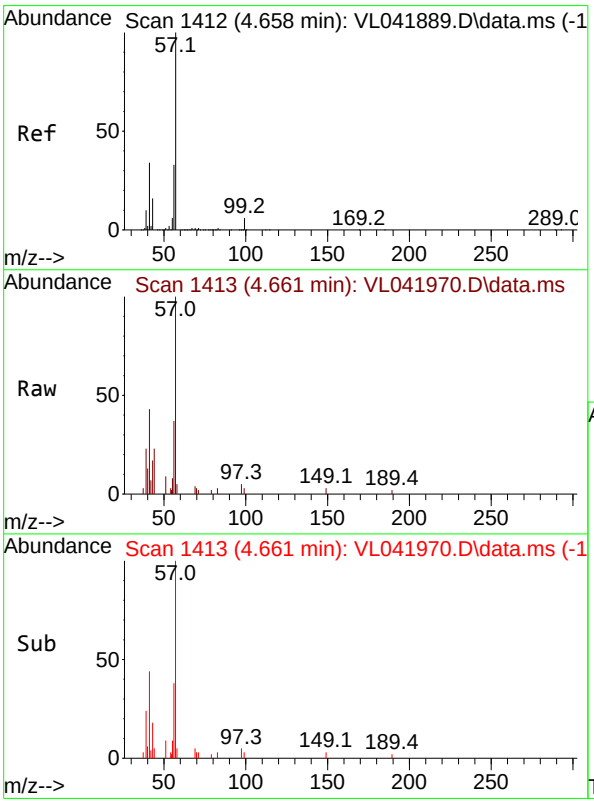
Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.1	27.1
50	12.5	15.2	22.8#



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

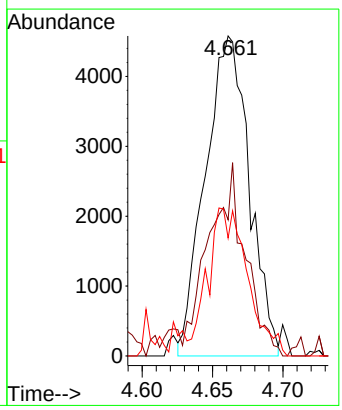
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

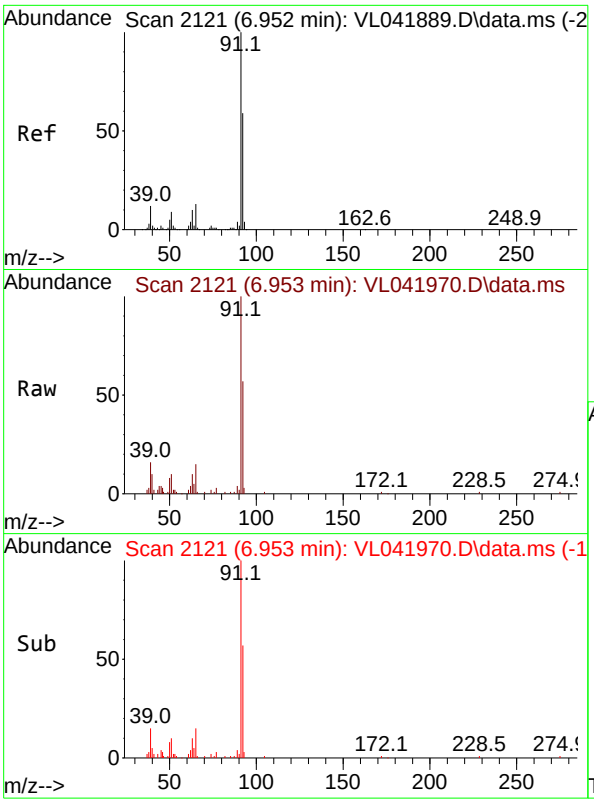


#44
2,2,4-Trimethylpentane
Concen: 0.159 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 57 Resp: 9955

Ion	Ratio	Lower	Upper
57	100		
41	56.1	26.6	40.0#
56	47.6	25.4	38.2#





#53
Toluene
Concen: 0.584 ppbv
RT: 6.953 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

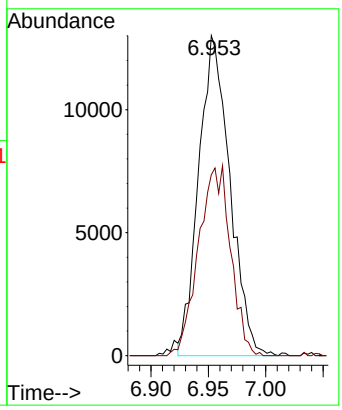
Tgt Ion: 91 Resp: 2458

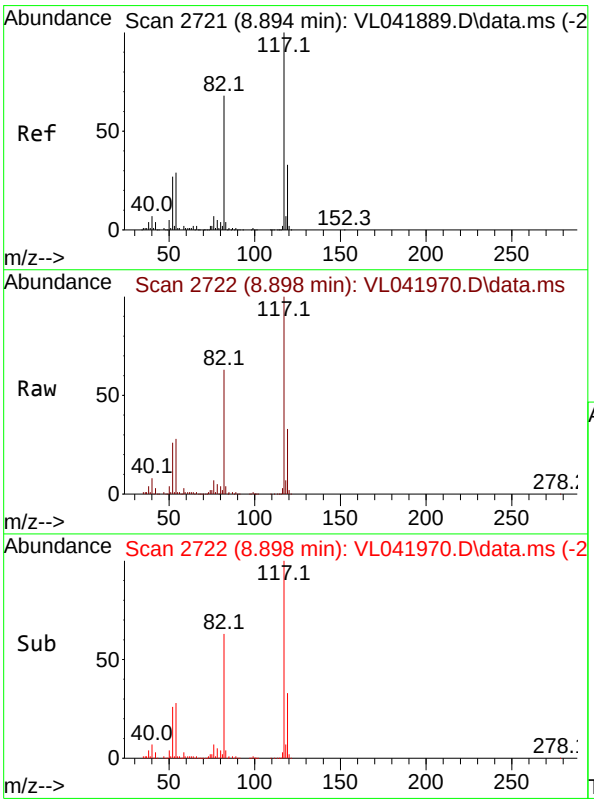
Ion	Ratio	Lower	Upper
91	100		
92	61.0	47.4	71.0

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

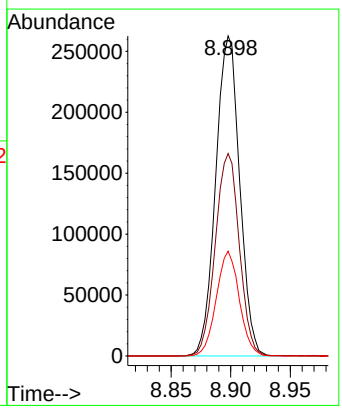


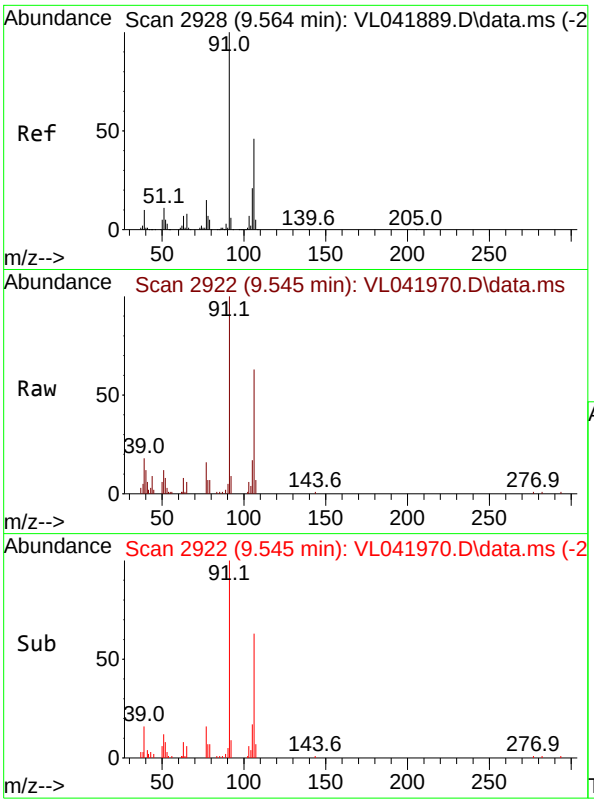


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion:117 Resp: 366996

Ion	Ratio	Lower	Upper
117	100		
82	63.4	54.2	81.4
119	31.5	25.0	37.6





#59
m/p-Xylene
Concen: 0.259 ppbv
RT: 9.545 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 91 Resp: 1189

Ion	Ratio	Lower	Upper
91	100		
106	51.8	36.0	54.0

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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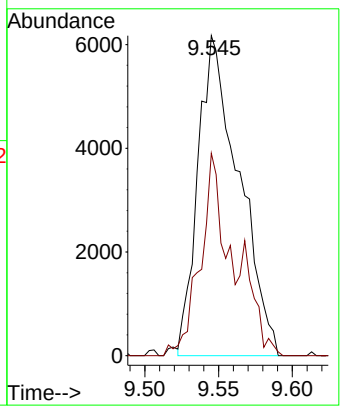
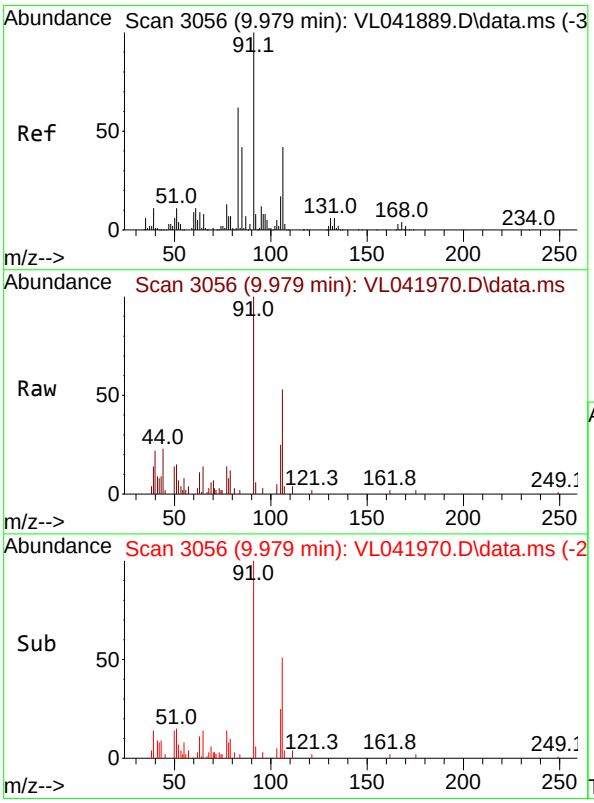
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

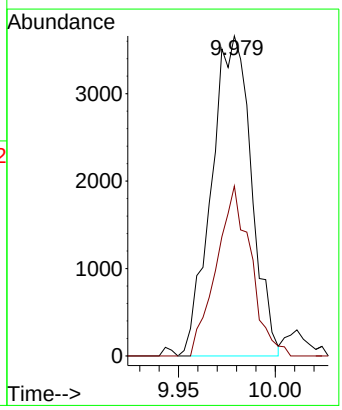


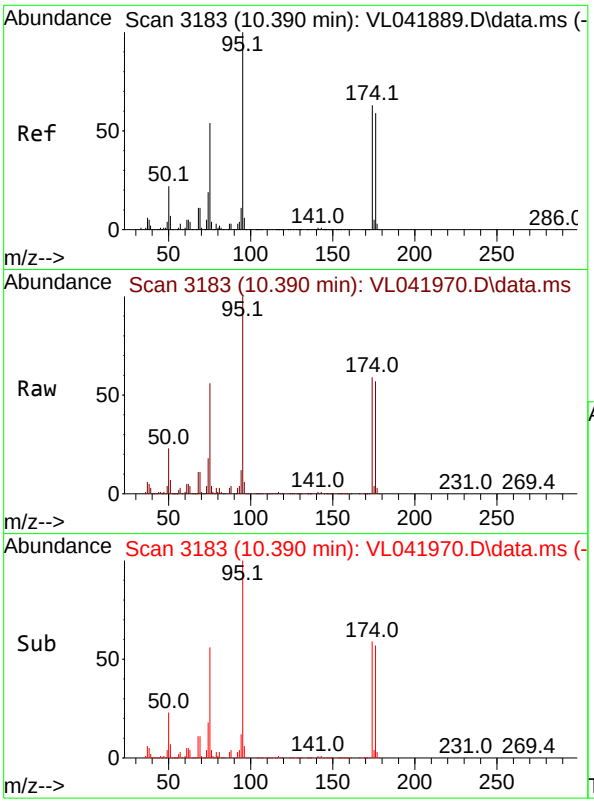


#60
o-Xylene
Concen: 0.115 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 91 Resp: 5246

Ion	Ratio	Lower	Upper
91	100		
106	46.0	21.3	63.9

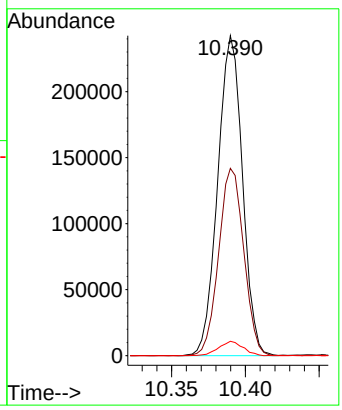




#68
1-Bromo-4-Fluorobenzene
Concen: 9.773 ppbv
RT: 10.390 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 95 Resp: 28250

Ion	Ratio	Lower	Upper
95	100		
174	59.6	49.0	73.4
175	4.5	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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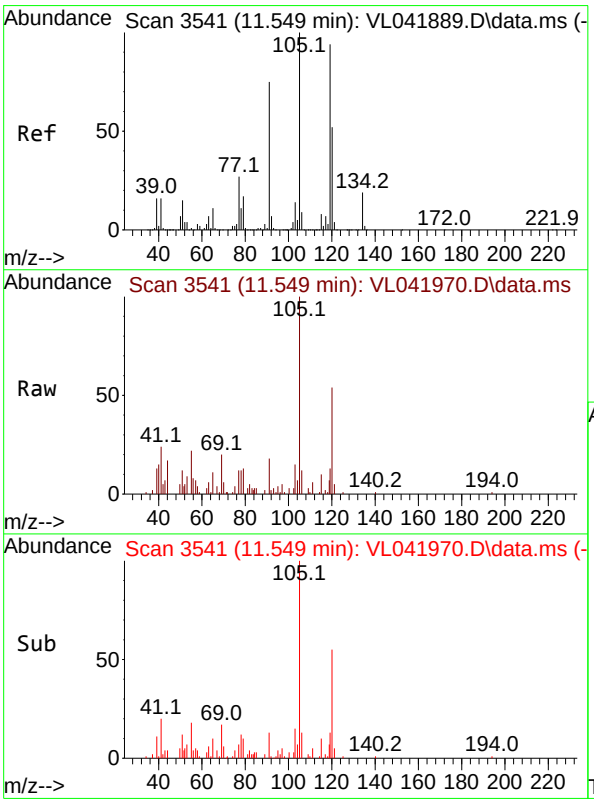
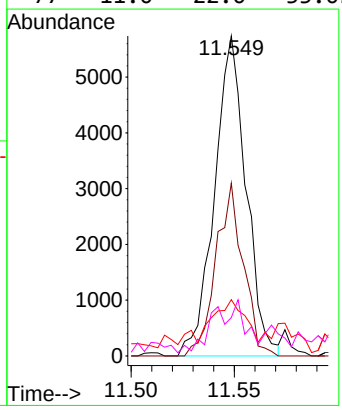
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

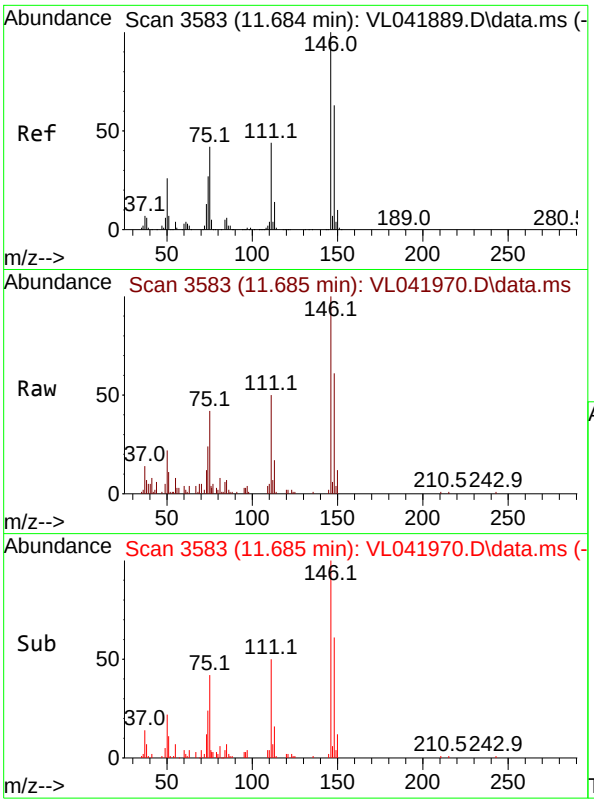


#74
1,2,4-Trimethylbenzene
Concen: 0.117 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion:105 Resp: 6099

Ion	Ratio	Lower	Upper
105	100		
120	54.0	41.4	62.2
91	14.0	60.2	90.2#
77	11.0	22.0	33.0#

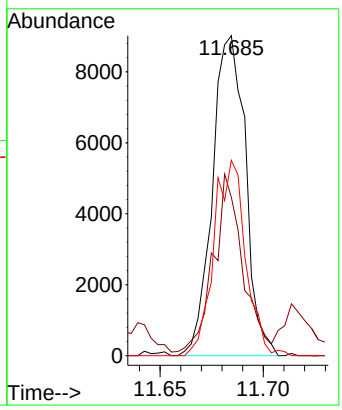




#76
1,4-Dichlorobenzene
Concen: 0.332 ppbv
RT: 11.685 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion:146 Resp: 1003

Ion	Ratio	Lower	Upper
146	100		
111	51.7	22.4	67.0
148	58.6	31.9	95.5



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

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.: Q1256 SAS No.: Q1256 SDG No.: Q1256

Instrument ID: MSVOA_L Calibration Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:55 16:05

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

LAB FILE ID: RRF010 = VL041889.D RRF002 = VL041890.D RRF001 = VL041891.D
RRF0.5 = VL041892.D RRF0.1 = VL041893.D RRF.03 = VL041894.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Vinyl Chloride	0.466	0.502	0.531	0.561	0.578	0.504	0.519	7.6
1,1-Dichloroethene	0.458	0.514	0.517	0.520			0.501	5.2
cis-1,2-Dichloroethene	1.272	1.390	1.397	1.406			1.349	5
1,1,1-Trichloroethane	1.905	1.956	2.010	1.942	1.841	1.937	1.938	2.8
Trichloroethene	0.354	0.373	0.374	0.381	0.427	0.286	0.364	11.6
Tetrachloroethene	0.292	0.330	0.329	0.317	0.348	0.320	0.318	6.5
1-Bromo-4-Fluorobenzene	0.782	0.795	0.792	0.784	0.785	0.783	0.788	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 : VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.450	1.406	1.359	1.300	1.295	1.362	4.93
3)		Chlorodifluoro...			1.448	1.547	1.466	1.330	1.343	1.427	6.34
4)		Chloromethane			0.546	0.499	0.525	0.492	0.499	0.512	4.41
5)	T	Vinyl Chloride	0.504	0.578	0.561	0.531	0.502	0.466	0.491	0.519	7.62
6)	T	Bromomethane			0.253	0.274	0.248	0.229	0.233	0.247	7.30
7)		Chloroethane			0.210	0.205	0.209	0.193	0.194	0.202	4.08
8)	T	Dichlorotetraf...			1.282	1.198	1.225	1.095	1.151	1.190	5.99
9)	T	Propene			0.642	0.577	0.605	0.568	0.548	0.588	6.21
10)	T	Heptane			1.536	1.616	1.635	1.530	1.538	1.571	3.19
11)	T	Trichlorofluor...			1.488	1.417	1.435	1.335	1.410	1.417	3.87
12)	T	1,1,2-Trichlor...			1.098	1.137	1.166	1.057	1.095	1.110	3.78
13)		Ethanol			0.065	0.043	0.051	0.027	0.029	0.043#	36.98
14)	T	Bromoethene			0.420	0.445	0.403	0.371	0.393	0.407	6.93
15)	T	Acetone			1.405	1.301	1.256	0.991	1.051	1.201	14.50
16)	T	1,3-Butadiene			0.552	0.589	0.545	0.494	0.515	0.539	6.74
17)		tert-Butyl alc...			1.527	1.559	1.503	1.399	1.404	1.478	4.91
18)	T	1,1-Dichloroet...			0.520	0.517	0.514	0.458	0.492	0.501	5.18
19)	T	Isopropyl Alcohol			0.864	0.731	0.714	0.621	0.631	0.712	13.77
20)	T	Methylene Chlo...			0.586	0.503	0.478	0.390	0.416	0.475	16.27
21)	T	Allyl Chloride			0.897	0.823	0.847	0.792	0.799	0.832	5.06
22)	T	trans-1,2-Dich...			0.549	0.583	0.595	0.540	0.556	0.565	4.13
23)	T	Vinyl Acetate			0.873	0.475	0.543	0.538	0.549	0.595	26.54
24)	T	1,1-Dichloroet...			1.165	1.099	1.100	1.016	1.083	1.093	4.84
25)	T	Ethyl Acetate			3.219	3.352	3.399	3.094	3.131	3.239	4.13
26)	T	Hexane			1.265	1.249	1.388	1.261	1.242	1.281	4.71
27)	T	Carbon Disulfide			1.210	1.256	1.304	1.258	1.311	1.268	3.22
28)	T	Methyl tert-Bu...			1.043	1.187	1.007	0.774	0.885	0.979	16.08
29)	T	Chloroform			2.101	2.060	2.105	1.911	1.947	2.025	4.45
30)	T	Cyclohexane			1.037	1.193	1.145	1.082	1.098	1.111	5.41
31)	T	cis-1,2-Dichlo...			1.406	1.397	1.390	1.272	1.279	1.349	4.98
32)	T	1,1,1-Trichlor...	1.937	1.841	1.942	2.010	1.956	1.905	1.973	1.938	2.76
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.649	0.646	0.679	0.602	0.605	0.636	5.13
35)	T	Carbon Tetrach...	0.605	0.608	0.584	0.616	0.657	0.649	0.677	0.628	5.32
36)	T	Benzene			0.926	0.949	0.949	0.882	0.879	0.917	3.78
37)	T	1,2-Dichloroet...			0.539	0.516	0.517	0.493	0.510	0.515	3.23
38)	T	Trichloroethene	0.286	0.427	0.381	0.374	0.373	0.354	0.353	0.364	11.62
39)	T	1,2-Dichloropr...			0.349	0.321	0.329	0.305	0.304	0.322	5.81

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL011425AIR.M

40)	T	1,4-Dioxane		0.187	0.162	0.161	0.147	0.155	0.162	9.21
41)	T	Tetrahydrofuran		0.333	0.344	0.358	0.348	0.346	0.346	2.53
42)	T	Bromodichlorom...		0.700	0.659	0.703	0.684	0.707	0.691	2.84
43)		Methyl Methacr...		0.340	0.336	0.349	0.338	0.341	0.341	1.41
44)	T	2,2,4-Trimethy...		1.450	1.501	1.566	1.457	1.444	1.484	3.45
45)	T	t-1,3-Dichloro...		0.300	0.292	0.319	0.338	0.346	0.319	7.38
46)	T	cis-1,3-Dichlo...		0.371	0.391	0.439	0.446	0.447	0.419	8.43
47)	T	1,1,2-Trichlor...		0.340	0.345	0.350	0.333	0.336	0.341	2.06
48)	T	Dibromochlorom...		0.490	0.489	0.541	0.545	0.566	0.526	6.64
49)	T	Bromoform		0.379	0.394	0.439	0.460	0.488	0.432	10.53
50)	T	4-Methyl-2-Pen...		0.892	0.870	0.899	0.833	0.846	0.868	3.29
51)	T	2-Hexanone		0.622	0.640	0.739	0.652	0.683	0.667	6.91
52)	T	Tetrachloroethene	0.320	0.348	0.317	0.329	0.330	0.292	0.291	0.318	6.46
53)	T	Toluene		0.934	0.996	1.048	1.011	1.008	0.999	4.14
54)	T	1,2-Dibromoethane	0.440	0.488	0.468	0.494	0.454	0.470	0.469	4.32
55)	I	Chlorobenzene-d5	----------	ISTD	----------					
56)		1,1,1,2-Tetrac...		0.502	0.514	0.510	0.481	0.488	0.499	2.86
57)	T	Chlorobenzene		0.986	0.968	0.977	0.848	0.832	0.922	8.18
58)	T	Ethyl Benzene		1.507	1.563	1.653	1.551	1.541	1.563	3.49
59)	T	m/p-Xylene		1.186	1.265	1.355	1.223	1.234	1.253	5.10
60)	T	o-Xylene		1.179	1.241	1.348	1.224	1.224	1.243	5.06
61)	T	Styrene		0.516	0.515	0.576	0.587	0.595	0.558	7.02
62)		Isopropylbenzene		1.927	1.925	2.066	1.854	1.848	1.924	4.56
63)	T	1,1,2,2-Tetrac...	0.756	0.816	0.845	0.858	0.751	0.741	0.795	6.52
64)		n-propylbenzene		0.481	0.495	0.521	0.469	0.464	0.486	4.78
65)		tert-Butylbenzene		1.746	1.782	1.919	1.675	1.645	1.753	6.12
66)	T	Benzyl Chloride		0.102	0.093	0.113	0.115	0.119	0.109	9.71
67)		sec-Butylbenzene		2.389	2.457	2.681	2.299	2.246	2.414	7.04
68)	S	1-Bromo-4-Fluo...	0.783	0.785	0.784	0.792	0.795	0.782	0.792	0.788	0.65
69)		p-Isopropyltol...		1.852	2.013	2.256	1.927	1.892	1.988	8.11
70)		n-Butylbenzene		1.867	2.048	2.206	1.898	1.840	1.972	7.80
71)		2-Chlorotoluene		1.394	1.410	1.537	1.389	1.385	1.423	4.54
72)	T	4-Ethyltoluene		1.442	1.447	1.610	1.466	1.472	1.487	4.67
73)	T	1,3,5-Trimethy...		1.222	1.360	1.448	1.263	1.275	1.313	6.88
74)	T	1,2,4-Trimethy...		1.359	1.456	1.607	1.346	1.344	1.422	7.97
75)	T	1,3-Dichlorobe...		0.881	0.884	0.903	0.776	0.771	0.843	7.61
76)	T	1,4-Dichlorobe...		0.830	0.859	0.889	0.769	0.777	0.825	6.29
77)	T	1,2-Dichlorobe...		0.863	0.902	0.909	0.757	0.745	0.835	9.43
78)	T	Hexachloro-1,3...		0.747	0.742	0.772	0.586	0.582	0.686	13.66
79)	T	Naphthalene	0.978	1.479	1.682	1.941	1.255	1.259	1.432	24.01
80)	T	Naphthalene,2-...		0.572	0.724	1.151	0.463	0.485	0.679	41.70
81)	T	1,2,4-Trichlor...		0.745	0.738	0.819	0.598	0.596	0.699	14.10

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	152325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	449256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	400269	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	313194	9.934	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	197959	9.541	ppbv	100
3) Chlorodifluoromethane	1.479	51	202651	9.323	ppbv	100
4) Chloromethane	1.538	50	74977	9.608	ppbv	100
5) Vinyl Chloride	1.583	62	71006	8.984	ppbv	100
6) Bromomethane	1.674	94	34817	9.243	ppbv	100
7) Chloroethane	1.709	64	29349	9.544	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	166754	9.196	ppbv	100
9) Propene	1.486	41	86544	9.665	ppbv	100
10) Heptane	5.001	43	233062	9.738	ppbv	100
11) Trichlorofluoromethane	1.884	101	203374	9.423	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	160993	9.517	ppbv	100
13) Ethanol	1.725	45	4155	6.335	ppbv	98
14) Bromoethene	1.787	108	56447	9.114	ppbv	100
15) Acetone	1.842	43	151022	8.255	ppbv	100
16) 1,3-Butadiene	1.612	39	75244	9.163	ppbv	100
17) tert-Butyl alcohol	2.046	59	213109	9.464	ppbv	100
18) 1,1-Dichloroethene	2.039	96	69825	9.158	ppbv	100
19) Isopropyl Alcohol	1.890	45	94532	8.714	ppbv	100
20) Methylene Chloride	2.068	84	59427	8.219	ppbv	100
21) Allyl Chloride	2.101	41	120681	9.526	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	82326	9.568	ppbv	100
23) Vinyl Acetate	2.470	43	81885	10.281	ppbv	100
24) 1,1-Dichloroethane	2.418	63	154838	9.303	ppbv	100
25) Ethyl Acetate	2.845	43	471257	9.552	ppbv	100
26) Hexane	2.835	57	192009	9.841	ppbv	100
27) Carbon Disulfide	2.156	76	191567	9.921	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	117898	7.905	ppbv	100
29) Chloroform	2.858	83	291118	9.438	ppbv	100
30) Cyclohexane	3.868	84	164788	9.737	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	193774	9.432	ppbv	100
32) 1,1,1-Trichloroethane	3.379	97	290126	9.830	ppbv	100
34) 2-Butanone	2.567	43	270263	9.459	ppbv	100
35) Carbon Tetrachloride	3.777	117	291448	10.309	ppbv	100
36) Benzene	3.671	78	396344	9.619	ppbv	100
37) 1,2-Dichloroethane	3.230	62	221352	9.565	ppbv	100
38) Trichloroethene	4.564	130	159253	9.736	ppbv	100
39) 1,2-Dichloropropane	4.331	63	137090	9.484	ppbv	100
40) 1,4-Dioxane	4.606	88	66200	9.075	ppbv #	94
41) Tetrahydrofuran	3.065	42	156141	10.023	ppbv	100
42) Bromodichloromethane	4.509	83	307176	9.900	ppbv	100
43) Methyl Methacrylate	4.897	69	152001	9.930	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	654395	9.819	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	151920	10.603	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	200330	10.649	ppbv		100
47) 1,1,2-Trichloroethane	6.600	97	149634	9.766	ppbv		100
48) Dibromochloromethane	7.402	129	245066	10.368	ppbv		100
49) Bromoform	9.496	173	206751	10.649	ppbv		100
50) 4-Methyl-2-Pentanone	5.778	43	374267	9.615	ppbv		100
51) 2-Hexanone	7.454	43	292941	9.775	ppbv	#	100
52) Tetrachloroethene	8.241	164	131334	9.193	ppbv		100
53) Toluene	6.952	91	454085	10.116	ppbv		100
54) 1,2-Dibromoethane	7.668	107	203859	9.679	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.940	131	192449	9.637	ppbv		99
57) Chlorobenzene	8.937	112	339570	9.197	ppbv		100
58) Ethyl Benzene	9.367	91	620719	9.923	ppbv		100
59) m/p-Xylene	9.564	91	979297m	19.504	ppbv		
60) o-Xylene	9.979	91	490108	9.848	ppbv		100
61) Styrene	9.885	104	234901	10.522	ppbv		100
62) Isopropylbenzene	10.552	105	742261	9.638	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.976	83	300600	9.596	ppbv		100
64) n-propylbenzene	11.002	120	187706	9.646	ppbv		99
65) tert-Butylbenzene	11.542	119	670259	9.550	ppbv		100
66) Benzyl Chloride	11.626	91	46008	10.591	ppbv		100
67) sec-Butylbenzene	11.778	105	920046	9.521	ppbv		100
69) p-Isopropyltoluene	11.937	119	771465	9.694	ppbv		100
70) n-Butylbenzene	12.293	91	759785	9.627	ppbv		100
71) 2-Chlorotoluene	10.914	91	556170	9.763	ppbv		100
72) 4-Ethyltoluene	11.137	105	586667	9.855	ppbv		100
73) 1,3,5-Trimethylbenzene	11.215	105	505443	9.614	ppbv		100
74) 1,2,4-Trimethylbenzene	11.549	105	538665	9.461	ppbv		100
75) 1,3-Dichlorobenzene	11.620	146	310421	9.201	ppbv		100
76) 1,4-Dichlorobenzene	11.684	146	307758	9.324	ppbv		100
77) 1,2-Dichlorobenzene	11.960	146	303196	9.068	ppbv		100
78) Hexachloro-1,3-Butadiene	13.895	225	234457	8.543	ppbv		100
79) Naphthalene	13.526	128	502354	8.764	ppbv		100
80) Naphthalene,2-methyl-	14.471	142	185336	6.819	ppbv		100
81) 1,2,4-Trichlorobenzene	13.452	180	239317	8.553	ppbv		100

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

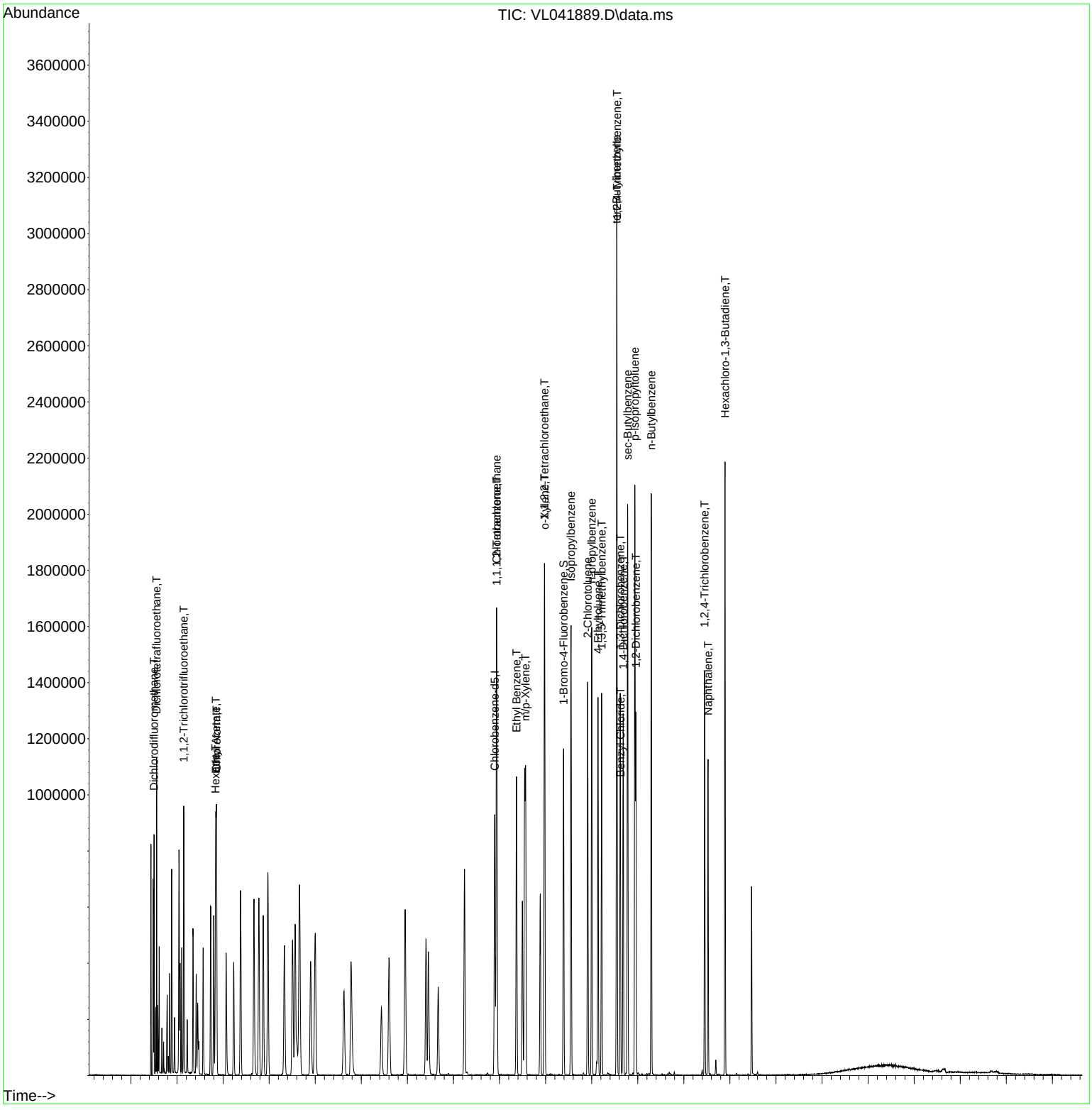
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.797	49	150761	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	452131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	394865	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	313784	10.089	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	40991	1.996	ppbv	98
3) Chlorodifluoromethane	1.479	51	44207	2.055	ppbv	99
4) Chloromethane	1.538	50	15833	2.050	ppbv	93
5) Vinyl Chloride	1.583	62	15137	1.935	ppbv	99
6) Bromomethane	1.673	94	7486	2.008	ppbv	91
7) Chloroethane	1.709	64	6303	2.071	ppbv #	84
8) Dichlorotetrafluoroethane	1.557	85	36941	2.058	ppbv	99
9) Propene	1.486	41	18248	2.059	ppbv	95
10) Heptane	5.001	43	49302	2.081	ppbv	97
11) Trichlorofluoromethane	1.884	101	43266	2.025	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	35162	2.100	ppbv	97
13) Ethanol	1.725	45	1534	2.363	ppbv	84
14) Bromoethene	1.787	108	12163	1.984	ppbv #	95
15) Acetone	1.842	43	37867	2.091	ppbv	99
16) 1,3-Butadiene	1.612	39	16446	2.024	ppbv	100
17) tert-Butyl alcohol	2.049	59	45305	2.033	ppbv	99
18) 1,1-Dichloroethene	2.039	96	15508	2.055	ppbv	97
19) Isopropyl Alcohol	1.894	45	21530	2.005	ppbv	94
20) Methylene Chloride	2.068	84	14399	2.012	ppbv	95
21) Allyl Chloride	2.104	41	25533	2.036	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	17951	2.108	ppbv	83
23) Vinyl Acetate	2.470	43	16358	2.075	ppbv	99
24) 1,1-Dichloroethane	2.418	63	33175	2.014	ppbv	99
25) Ethyl Acetate	2.848	43	102475	2.099	ppbv	99
26) Hexane	2.835	57	41844	2.167	ppbv	99
27) Carbon Disulfide	2.156	76	39306	2.057	ppbv #	70
28) Methyl tert-Butyl Ether	2.454	73	30355	2.056	ppbv	96
29) Chloroform	2.858	83	63457	2.079	ppbv	94
30) Cyclohexane	3.874	84	34518	2.061	ppbv	97
31) cis-1,2-Dichloroethene	2.729	61	41921	2.062	ppbv	89
32) 1,1,1-Trichloroethane	3.382	97	58965	2.019	ppbv	98
34) 2-Butanone	2.570	43	61381	2.135	ppbv	99
35) Carbon Tetrachloride	3.777	117	59430	2.089	ppbv	95
36) Benzene	3.670	78	85859	2.070	ppbv	96
37) 1,2-Dichloroethane	3.230	62	46786	2.009	ppbv	100
38) Trichloroethene	4.564	130	33773	2.052	ppbv	98
39) 1,2-Dichloropropane	4.334	63	29723	2.043	ppbv	96
40) 1,4-Dioxane	4.619	88	14566m	1.984	ppbv	
41) Tetrahydrofuran	3.072	42	32358	2.064	ppbv	96
42) Bromodichloromethane	4.509	83	63611	2.037	ppbv	99
43) Methyl Methacrylate	4.900	69	31519	2.046	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	141602	2.111	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	28818	1.999	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	39668	2.095	ppbv		94
47) 1,1,2-Trichloroethane	6.600	97	31694m	2.055	ppbv		
48) Dibromochloromethane	7.406	129	48894	2.055	ppbv		99
49) Bromoform	9.496	173	39710	2.032	ppbv		99
50) 4-Methyl-2-Pentanone	5.784	43	81330	2.076	ppbv		98
51) 2-Hexanone	7.457	43	66831	2.216	ppbv	#	98
52) Tetrachloroethene	8.241	164	29814	2.074	ppbv		94
53) Toluene	6.952	91	94741	2.097	ppbv		98
54) 1,2-Dibromoethane	7.671	107	44636	2.106	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.940	131	40249	2.043	ppbv		93
57) Chlorobenzene	8.933	112	77180	2.119	ppbv		94
58) Ethyl Benzene	9.367	91	130554	2.116	ppbv		98
59) m/p-Xylene	9.561	91	214076m	4.322	ppbv		
60) o-Xylene	9.975	91	106458	2.168	ppbv		99
61) Styrene	9.885	104	45490	2.065	ppbv		99
62) Isopropylbenzene	10.552	105	163135	2.147	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.975	83	67775	2.193	ppbv		99
64) n-propylbenzene	11.001	120	41184	2.145	ppbv		99
65) tert-Butylbenzene	11.542	119	151534	2.189	ppbv		97
66) Benzyl Chloride	11.626	91	8925	2.083	ppbv		97
67) sec-Butylbenzene	11.778	105	211759	2.221	ppbv		99
69) p-Isopropyltoluene	11.937	119	178172	2.270	ppbv		100
70) n-Butylbenzene	12.293	91	174217	2.238	ppbv		99
71) 2-Chlorotoluene	10.914	91	121418	2.161	ppbv		100
72) 4-Ethyltoluene	11.137	105	127115	2.164	ppbv		100
73) 1,3,5-Trimethylbenzene	11.215	105	114342	2.205	ppbv		99
74) 1,2,4-Trimethylbenzene	11.548	105	126939	2.260	ppbv	#	89
75) 1,3-Dichlorobenzene	11.616	146	71332	2.143	ppbv		98
76) 1,4-Dichlorobenzene	11.684	146	70219	2.156	ppbv		99
77) 1,2-Dichlorobenzene	11.960	146	71818	2.177	ppbv		100
78) Hexachloro-1,3-Butadiene	13.892	225	60984	2.253	ppbv		99
79) Naphthalene	13.526	128	153268	2.710	ppbv		98
80) Naphthalene,2-methyl-	14.471	142	90910	3.391	ppbv		99
81) 1,2,4-Trichlorobenzene	13.452	180	64653	2.342	ppbv		98

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

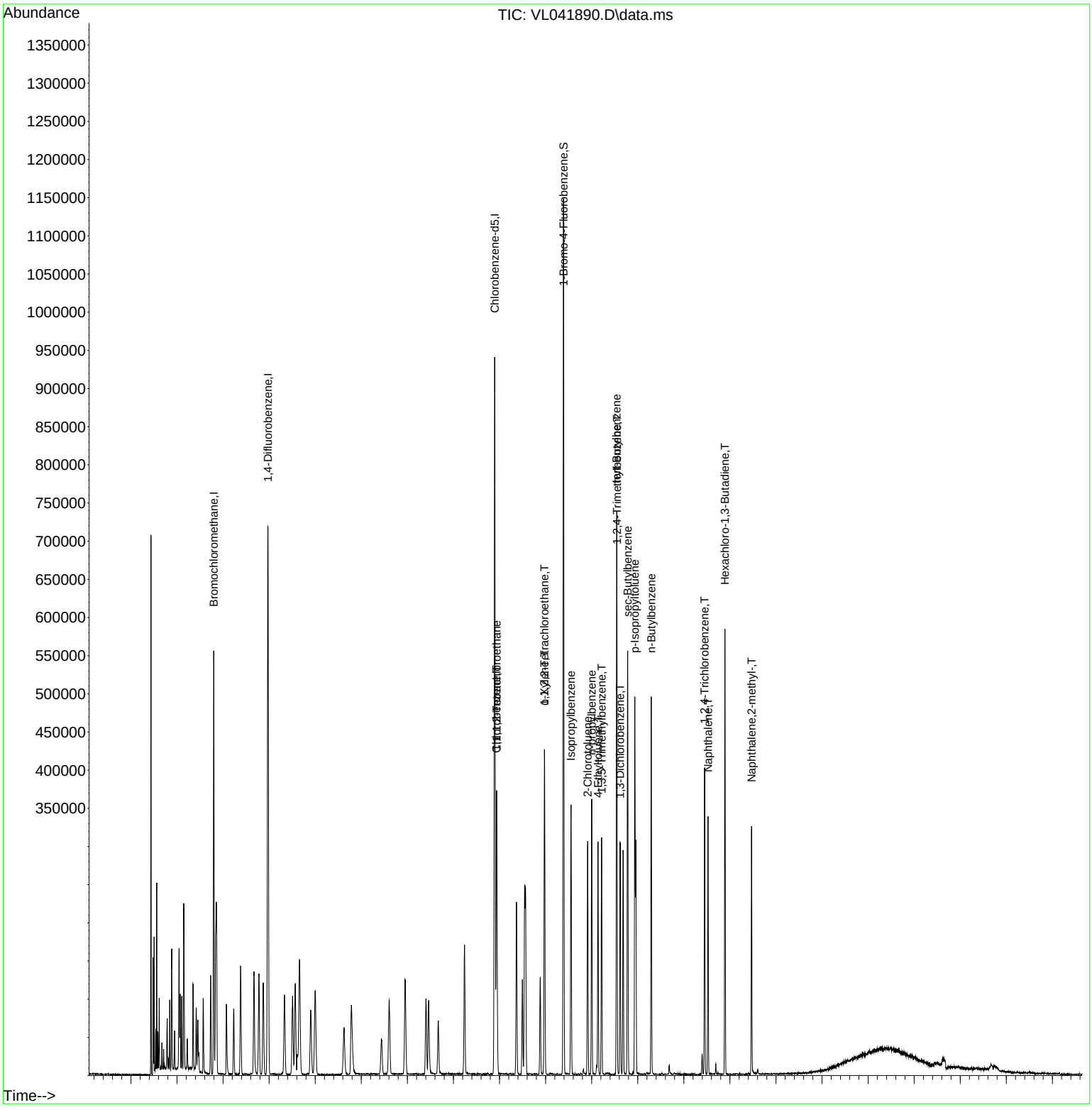
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	151226	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.972	114	453418	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.895	117	393836	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.387	95	312013	10.058	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	21262	1.032	ppbv		95
3) Chlorodifluoromethane	1.479	51	23396	1.084	ppbv		100
4) Chloromethane	1.534	50	7546	0.974	ppbv		94
5) Vinyl Chloride	1.583	62	8031	1.023	ppbv		97
6) Bromomethane	1.674	94	4139	1.107	ppbv	#	81
7) Chloroethane	1.709	64	3093	1.013	ppbv		92
8) Dichlorotetrafluoroethane	1.557	85	18122	1.007	ppbv		100
9) Propene	1.486	41	8719	0.981	ppbv		93
10) Heptane	5.001	43	24438	1.029	ppbv		96
11) Trichlorofluoromethane	1.884	101	21425	1.000	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.143	101	17187	1.023	ppbv		95
13) Ethanol	1.725	45	650	0.998	ppbv	#	29
14) Bromoethene	1.787	108	6736	1.096	ppbv	#	88
15) Acetone	1.842	43	19681	1.084	ppbv		95
16) 1,3-Butadiene	1.612	39	8901	1.092	ppbv		98
17) tert-Butyl alcohol	2.049	59	23571	1.054	ppbv		95
18) 1,1-Dichloroethene	2.039	96	7819m	1.033	ppbv		
19) Isopropyl Alcohol	1.894	45	11054	1.026	ppbv	#	32
20) Methylene Chloride	2.065	84	7608	1.060	ppbv	#	89
21) Allyl Chloride	2.101	41	12451	0.990	ppbv		98
22) trans-1,2-Dichloroethene	2.347	96	8819	1.032	ppbv		96
23) Vinyl Acetate	2.470	43	7181	0.908	ppbv	#	93
24) 1,1-Dichloroethane	2.415	63	16623	1.006	ppbv		97
25) Ethyl Acetate	2.845	43	50690	1.035	ppbv		98
26) Hexane	2.836	57	18893	0.975	ppbv		86
27) Carbon Disulfide	2.156	76	18993	0.991	ppbv	#	23
28) Methyl tert-Butyl Ether	2.450	73	17955	1.213	ppbv		98
29) Chloroform	2.858	83	31155	1.017	ppbv		97
30) Cyclohexane	3.871	84	18048	1.074	ppbv		96
31) cis-1,2-Dichloroethene	2.729	61	21124	1.036	ppbv		99
32) 1,1,1-Trichloroethane	3.383	97	30396	1.037	ppbv		98
34) 2-Butanone	2.570	43	29280	1.015	ppbv		99
35) Carbon Tetrachloride	3.774	117	27946	0.979	ppbv		96
36) Benzene	3.671	78	43023	1.035	ppbv		93
37) 1,2-Dichloroethane	3.230	62	23402	1.002	ppbv		98
38) Trichloroethene	4.564	130	16954m	1.027	ppbv		
39) 1,2-Dichloropropane	4.331	63	14570	0.999	ppbv		98
40) 1,4-Dioxane	4.613	88	7345m	0.998	ppbv		
41) Tetrahydrofuran	3.075	42	15580m	0.991	ppbv		
42) Bromodichloromethane	4.509	83	29893m	0.955	ppbv		
43) Methyl Methacrylate	4.901	69	15222	0.985	ppbv		95
44) 2,2,4-Trimethylpentane	4.661	57	68050	1.012	ppbv		98
45) t-1,3-Dichloropropene	6.438	75	13220	0.914	ppbv		92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	17749	0.935	ppbv		97
47) 1,1,2-Trichloroethane	6.603	97	15658m	1.013	ppbv		
48) Dibromochloromethane	7.402	129	22169	0.929	ppbv		100
49) Bromoform	9.497	173	17876	0.912	ppbv		100
50) 4-Methyl-2-Pentanone	5.787	43	39436m	1.004	ppbv		
51) 2-Hexanone	7.464	43	28999	0.959	ppbv	#	95
52) Tetrachloroethene	8.244	164	14903	1.034	ppbv	#	80
53) Toluene	6.956	91	45140m	0.996	ppbv		
54) 1,2-Dibromoethane	7.668	107	21202	0.997	ppbv		96
56) 1,1,1,2-Tetrachloroethane	8.937	131	20255	1.031	ppbv		94
57) Chlorobenzene	8.933	112	38141	1.050	ppbv		98
58) Ethyl Benzene	9.367	91	61537	1.000	ppbv		99
59) m/p-Xylene	9.561	91	99618m	2.016	ppbv		
60) o-Xylene	9.972	91	48888	0.998	ppbv		98
61) Styrene	9.882	104	20285	0.923	ppbv		99
62) Isopropylbenzene	10.549	105	75801	1.000	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.972	83	33289	1.080	ppbv		97
64) n-propylbenzene	11.002	120	19511	1.019	ppbv		99
65) tert-Butylbenzene	11.539	119	70183	1.016	ppbv		98
66) Benzyl Chloride	11.626	91	3681m	0.861	ppbv		
67) sec-Butylbenzene	11.778	105	96749	1.018	ppbv		97
69) p-Isopropyltoluene	11.937	119	79283	1.013	ppbv		98
70) n-Butylbenzene	12.290	91	80664	1.039	ppbv		99
71) 2-Chlorotoluene	10.911	91	55540	0.991	ppbv		99
72) 4-Ethyltoluene	11.134	105	56973	0.973	ppbv		97
73) 1,3,5-Trimethylbenzene	11.215	105	53550	1.035	ppbv		97
74) 1,2,4-Trimethylbenzene	11.545	105	57352	1.024	ppbv		96
75) 1,3-Dichlorobenzene	11.617	146	34810	1.049	ppbv		99
76) 1,4-Dichlorobenzene	11.681	146	33822	1.041	ppbv		97
77) 1,2-Dichlorobenzene	11.960	146	35516	1.080	ppbv		98
78) Hexachloro-1,3-Butadiene	13.892	225	29210	1.082	ppbv		99
79) Naphthalene	13.523	128	66232	1.174	ppbv		98
80) Naphthalene,2-methyl-	14.468	142	28506	1.066	ppbv		98
81) 1,2,4-Trichlorobenzene	13.452	180	29053	1.055	ppbv		99

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

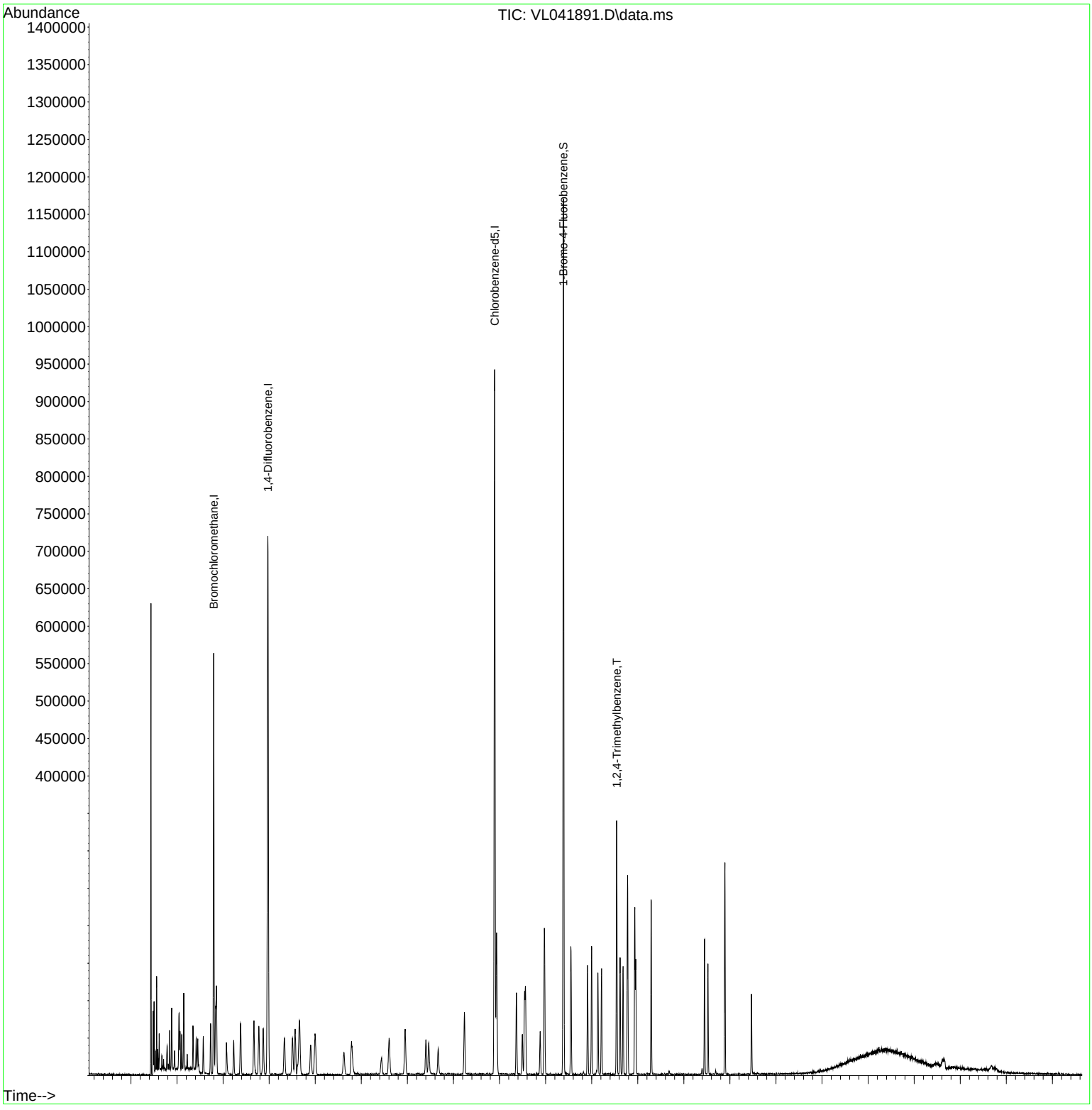
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.790	49	146186	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	430874	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	379402	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	297462	9.954	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.499	85	10599	0.532	ppbv		99
3) Chlorodifluoromethane	1.476	51	10582	0.507	ppbv		98
4) Chloromethane	1.534	50	3990	0.533	ppbv		98
5) Vinyl Chloride	1.580	62	4097	0.540	ppbv		94
6) Bromomethane	1.670	94	1852	0.512	ppbv	#	78
7) Chloroethane	1.706	64	1532	0.519	ppbv	#	77
8) Dichlorotetrafluoroethane	1.557	85	9372	0.539	ppbv		95
9) Propene	1.486	41	4690	0.546	ppbv		85
10) Heptane	4.988	43	11230	0.489	ppbv		95
11) Trichlorofluoromethane	1.881	101	10873	0.525	ppbv		99
12) 1,1,2-Trichlorotrifluo...	2.143	101	8027	0.494	ppbv		90
13) Ethanol	1.725	45	478m	0.759	ppbv		
14) Bromoethene	1.784	108	3071	0.517	ppbv	#	94
15) Acetone	1.839	43	10273	0.585	ppbv		99
16) 1,3-Butadiene	1.612	39	4038	0.512	ppbv		99
17) tert-Butyl alcohol	2.046	59	11158	0.516	ppbv	#	94
18) 1,1-Dichloroethene	2.036	96	3803	0.520	ppbv		95
19) Isopropyl Alcohol	1.891	45	6317	0.607	ppbv	#	32
20) Methylene Chloride	2.065	84	4286	0.618	ppbv		93
21) Allyl Chloride	2.101	41	6553	0.539	ppbv		96
22) trans-1,2-Dichloroethene	2.347	96	4015	0.486	ppbv		89
23) Vinyl Acetate	2.467	43	6381m	0.835	ppbv		
24) 1,1-Dichloroethane	2.415	63	8512	0.533	ppbv		97
25) Ethyl Acetate	2.845	43	23529	0.497	ppbv		97
26) Hexane	2.829	57	9246m	0.494	ppbv		
27) Carbon Disulfide	2.153	76	8847	0.477	ppbv	#	1
28) Methyl tert-Butyl Ether	2.447	73	7621	0.532	ppbv		97
29) Chloroform	2.855	83	15360	0.519	ppbv		92
30) Cyclohexane	3.871	84	7579	0.467	ppbv		92
31) cis-1,2-Dichloroethene	2.726	61	10275	0.521	ppbv	#	89
32) 1,1,1-Trichloroethane	3.379	97	14198	0.501	ppbv		98
34) 2-Butanone	2.567	43	13981	0.510	ppbv		94
35) Carbon Tetrachloride	3.774	117	12590	0.464	ppbv		89
36) Benzene	3.667	78	19954	0.505	ppbv		95
37) 1,2-Dichloroethane	3.227	62	11613	0.523	ppbv		97
38) Trichloroethene	4.561	130	8199	0.523	ppbv	#	89
39) 1,2-Dichloropropane	4.324	63	7526m	0.543	ppbv		
40) 1,4-Dioxane	4.616	88	4031m	0.576	ppbv		
41) Tetrahydrofuran	3.072	42	7183	0.481	ppbv		94
42) Bromodichloromethane	4.499	83	15081m	0.507	ppbv		
43) Methyl Methacrylate	4.891	69	7332m	0.499	ppbv		
44) 2,2,4-Trimethylpentane	4.645	57	31243	0.489	ppbv		95
45) t-1,3-Dichloropropene	6.428	75	6465m	0.470	ppbv		

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7986m	0.443	ppbv		
47) 1,1,2-Trichloroethane	6.597	97	7324	0.498	ppbv	#	84
48) Dibromochloromethane	7.393	129	10548m	0.465	ppbv		
49) Bromoform	9.493	173	8162	0.438	ppbv		97
50) 4-Methyl-2-Pentanone	5.794	43	19221m	0.515	ppbv		
51) 2-Hexanone	7.454	43	13390	0.466	ppbv	#	97
52) Tetrachloroethene	8.238	164	6821m	0.498	ppbv		
53) Toluene	6.946	91	20118	0.467	ppbv		96
54) 1,2-Dibromoethane	7.665	107	10511	0.520	ppbv		89
56) 1,1,1,2-Tetrachloroethane	8.930	131	9524	0.503	ppbv	#	1
57) Chlorobenzene	8.930	112	18701	0.534	ppbv	#	90
58) Ethyl Benzene	9.364	91	28584	0.482	ppbv	#	88
59) m/p-Xylene	9.558	91	45003m	0.946	ppbv		
60) o-Xylene	9.972	91	22370	0.474	ppbv		97
61) Styrene	9.879	104	9788	0.463	ppbv		99
62) Isopropylbenzene	10.545	105	36561	0.501	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.969	83	15485	0.521	ppbv		98
64) n-propylbenzene	10.995	120	9128	0.495	ppbv		93
65) tert-Butylbenzene	11.536	119	33122	0.498	ppbv		98
66) Benzyl Chloride	11.620	91	1935	0.470	ppbv		99
67) sec-Butylbenzene	11.775	105	45326	0.495	ppbv		98
69) p-Isopropyltoluene	11.931	119	35136	0.466	ppbv		98
70) n-Butylbenzene	12.287	91	35409	0.473	ppbv		96
71) 2-Chlorotoluene	10.908	91	26436	0.490	ppbv		99
72) 4-Ethyltoluene	11.131	105	27363	0.485	ppbv		97
73) 1,3,5-Trimethylbenzene	11.209	105	23183	0.465	ppbv		93
74) 1,2,4-Trimethylbenzene	11.545	105	25777	0.478	ppbv		89
75) 1,3-Dichlorobenzene	11.610	146	16708	0.522	ppbv		100
76) 1,4-Dichlorobenzene	11.678	146	15738	0.503	ppbv		96
77) 1,2-Dichlorobenzene	11.953	146	16364	0.516	ppbv		93
78) Hexachloro-1,3-Butadiene	13.892	225	14162	0.544	ppbv		96
79) Naphthalene	13.520	128	28052	0.516	ppbv		98
80) Naphthalene,2-methyl-	14.468	142	10859	0.422	ppbv		97
81) 1,2,4-Trichlorobenzene	13.445	180	14136	0.533	ppbv		95

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

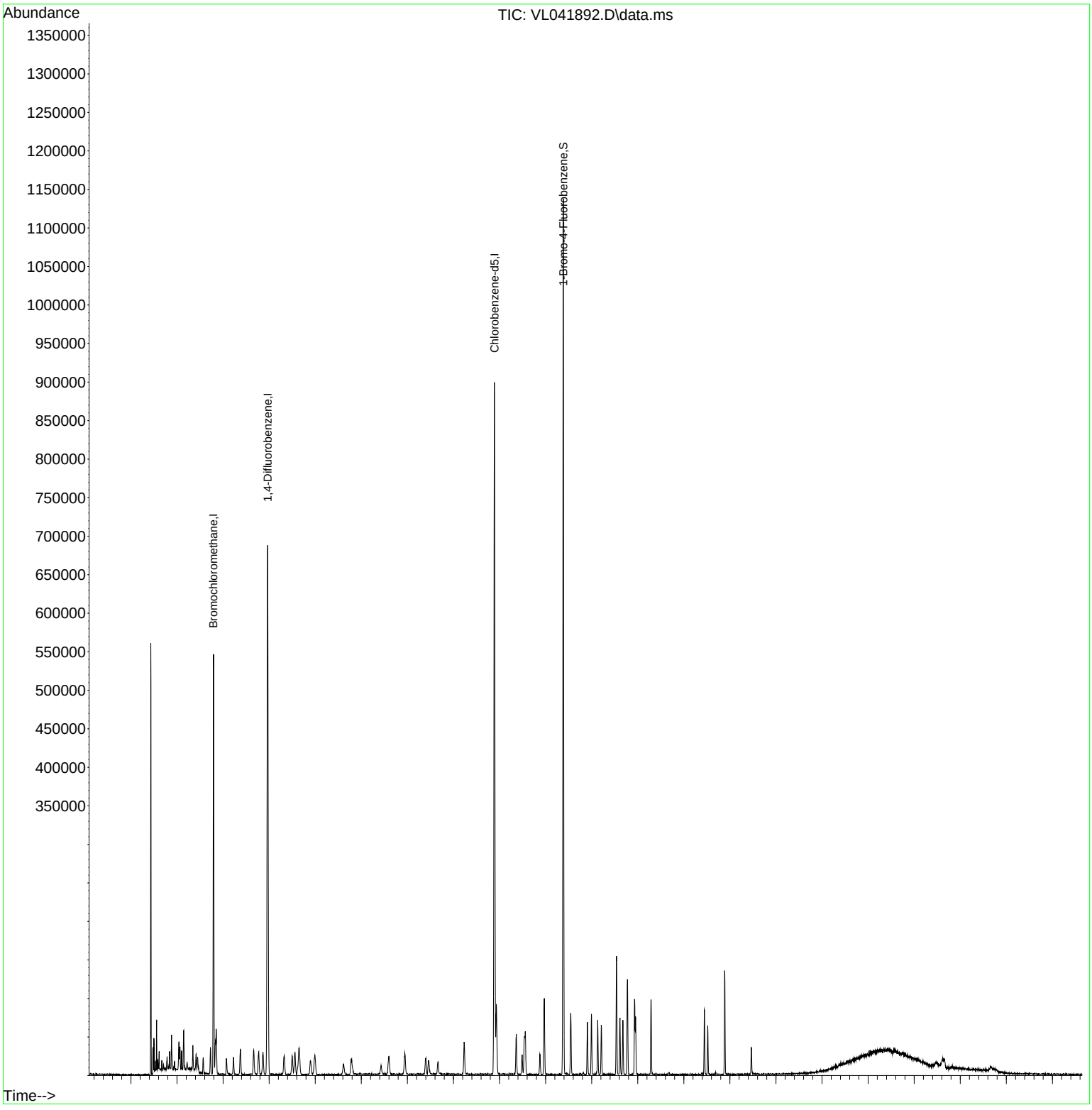
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	143362	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	425675	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	372545	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	292283	9.961	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.600%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.583	62	828	0.111	ppbv	96
32) 1,1,1-Trichloroethane	3.383	97	2640m	0.095	ppbv	
35) Carbon Tetrachloride	3.768	117	2587m	0.097	ppbv	
38) Trichloroethene	4.557	130	1816m	0.117	ppbv	
52) Tetrachloroethene	8.234	164	1480m	0.109	ppbv	
54) 1,2-Dibromoethane	7.668	107	1872m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.976	83	2816	0.097	ppbv	95
79) Naphthalene	13.520	128	3643	0.068	ppbv #	96

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

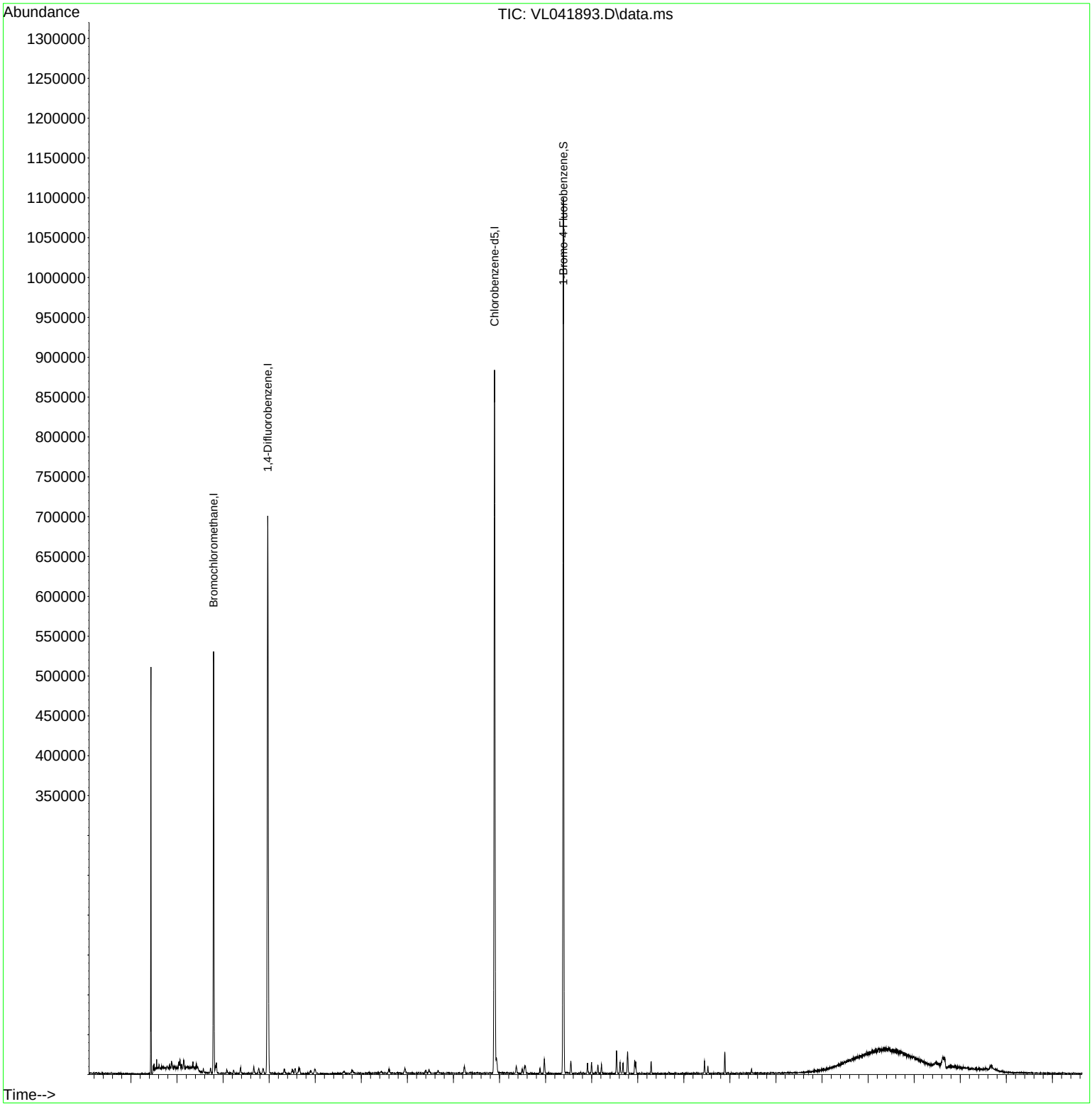
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.500%			
Target Compounds						Qvalue
52) Tetrachloroethene	8.250	164	408m	0.030	ppbv	

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

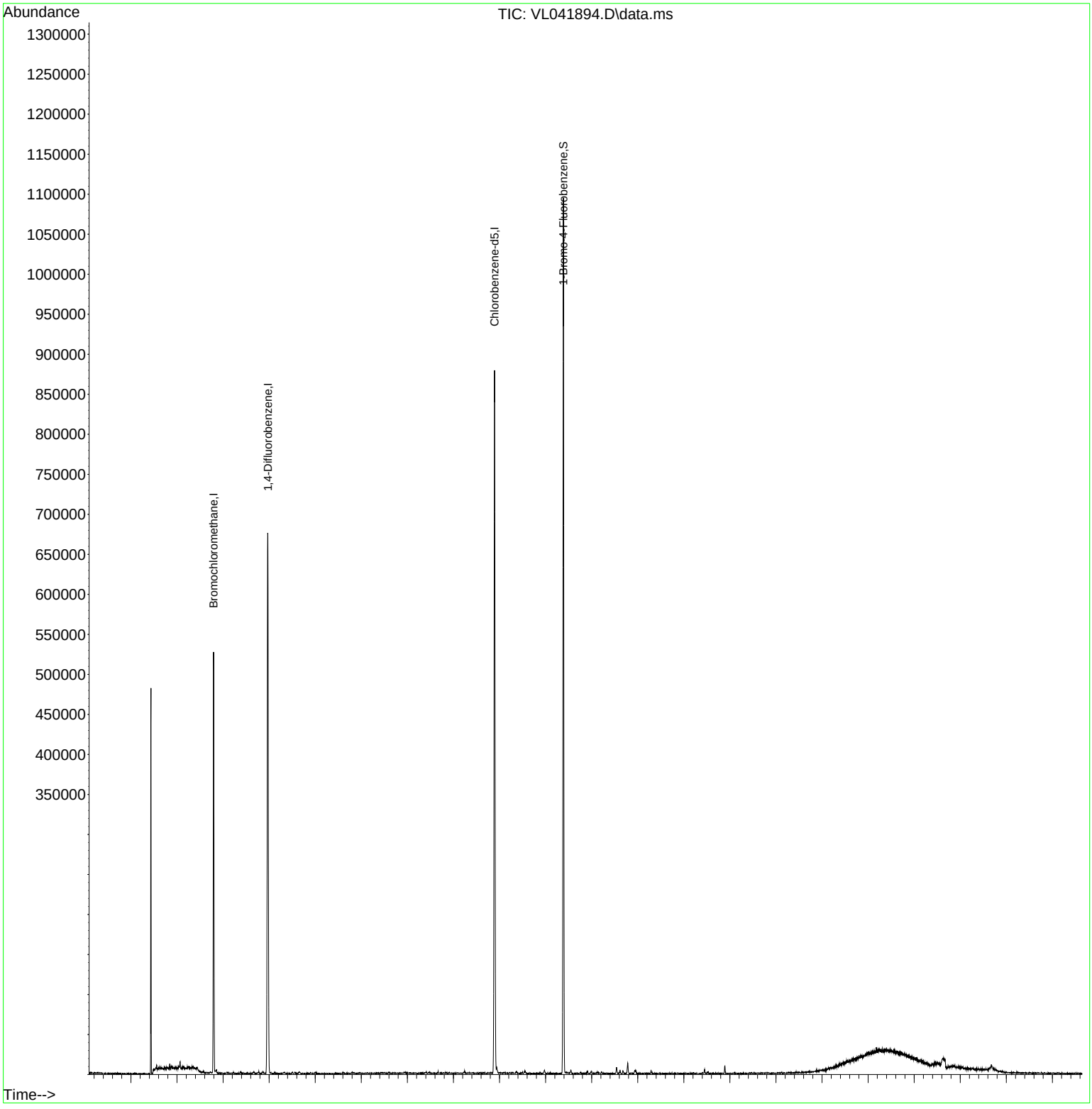
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	304042	10.058	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	275248	14.266	ppbv	100
3) Chlorodifluoromethane	1.479	51	285437	14.121	ppbv	98
4) Chloromethane	1.534	50	106071	14.617	ppbv	98
5) Vinyl Chloride	1.583	62	104404	14.204	ppbv	98
6) Bromomethane	1.670	94	49415	14.106	ppbv	91
7) Chloroethane	1.709	64	41130	14.383	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	244666	14.510	ppbv	100
9) Propene	1.486	41	116343	13.972	ppbv	99
10) Heptane	4.998	43	326897	14.688	ppbv	98
11) Trichlorofluoromethane	1.881	101	299656	14.930	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	232607	14.787	ppbv	100
13) Ethanol	1.725	45	6109	10.016	ppbv	83
14) Bromoethene	1.784	108	83586	14.513	ppbv	98
15) Acetone	1.839	43	223353	13.128	ppbv	99
16) 1,3-Butadiene	1.612	39	109420	14.329	ppbv	99
17) tert-Butyl alcohol	2.046	59	298424	14.252	ppbv	99
18) 1,1-Dichloroethene	2.039	96	104645	14.759	ppbv	92
19) Isopropyl Alcohol	1.890	45	134050	13.288	ppbv	98
20) Methylene Chloride	2.065	84	88425	13.151	ppbv	98
21) Allyl Chloride	2.101	41	169875	14.419	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	118169	14.768	ppbv	97
23) Vinyl Acetate	2.470	43	116632	15.747	ppbv	98
24) 1,1-Dichloroethane	2.415	63	230015	14.862	ppbv	99
25) Ethyl Acetate	2.842	43	665170	14.499	ppbv	100
26) Hexane	2.836	57	263948	14.547	ppbv	97
27) Carbon Disulfide	2.156	76	278476	15.509	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	187986	13.555	ppbv	98
29) Chloroform	2.858	83	413733	14.424	ppbv	98
30) Cyclohexane	3.868	84	233398	14.830	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	271739	14.223	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	419117	15.271	ppbv	99
34) 2-Butanone	2.564	43	380813	14.262	ppbv	99
35) Carbon Tetrachloride	3.774	117	426619	16.146	ppbv	97
36) Benzene	3.667	78	553665	14.378	ppbv	100
37) 1,2-Dichloroethane	3.227	62	321362	14.859	ppbv	99
38) Trichloroethene	4.564	130	222328	14.543	ppbv	98
39) 1,2-Dichloropropane	4.328	63	191532	14.179	ppbv	98
40) 1,4-Dioxane	4.596	88	97521	14.305	ppbv #	93
41) Tetrahydrofuran	3.062	42	217707	14.953	ppbv	99
42) Bromodichloromethane	4.502	83	445130	15.351	ppbv	95
43) Methyl Methacrylate	4.894	69	214564	14.999	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	909437	14.601	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	218001	16.281	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	281492	16.011	ppbv		98
47) 1,1,2-Trichloroethane	6.597	97	211658	14.782	ppbv		95
48) Dibromochloromethane	7.402	129	356392	16.134	ppbv		100
49) Bromoform	9.493	173	307617	16.953	ppbv		99
50) 4-Methyl-2-Pentanone	5.774	43	533053	14.653	ppbv		99
51) 2-Hexanone	7.451	43	430297	15.363	ppbv	#	97
52) Tetrachloroethene	8.237	164	183208	13.721	ppbv		96
53) Toluene	6.949	91	634515	15.126	ppbv		99
54) 1,2-Dibromoethane	7.665	107	295967	15.036	ppbv		93
56) 1,1,1,2-Tetrachloroethane	8.937	131	280809	14.665	ppbv		98
57) Chlorobenzene	8.933	112	479092	13.533	ppbv		99
58) Ethyl Benzene	9.367	91	887072	14.789	ppbv		100
59) m/p-Xylene	9.565	91	1420585m	29.506	ppbv		
60) o-Xylene	9.976	91	704577	14.765	ppbv		100
61) Styrene	9.882	104	342490	15.999	ppbv		99
62) Isopropylbenzene	10.548	105	1063809	14.406	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.976	83	426347	14.194	ppbv		100
64) n-propylbenzene	10.998	120	266972	14.308	ppbv		100
65) tert-Butylbenzene	11.542	119	947297	14.077	ppbv		98
66) Benzyl Chloride	11.626	91	68623	16.475	ppbv		98
67) sec-Butylbenzene	11.778	105	1292858	13.952	ppbv		100
69) p-Isopropyltoluene	11.937	119	1089109	14.273	ppbv		99
70) n-Butylbenzene	12.290	91	1059002	13.994	ppbv		99
71) 2-Chlorotoluene	10.911	91	797555	14.601	ppbv		100
72) 4-Ethyltoluene	11.134	105	847451	14.846	ppbv		99
73) 1,3,5-Trimethylbenzene	11.215	105	733759	14.556	ppbv		96
74) 1,2,4-Trimethylbenzene	11.549	105	773569	14.170	ppbv		92
75) 1,3-Dichlorobenzene	11.620	146	443828	13.720	ppbv		99
76) 1,4-Dichlorobenzene	11.681	146	447164	14.129	ppbv		99
77) 1,2-Dichlorobenzene	11.956	146	429118	13.385	ppbv		99
78) Hexachloro-1,3-Butadiene	13.892	225	335016	12.731	ppbv		100
79) Naphthalene	13.523	128	724573	13.183	ppbv		99
80) Naphthalene,2-methyl-	14.468	142	278955	10.704	ppbv		99
81) 1,2,4-Trichlorobenzene	13.452	180	342977	12.784	ppbv		98

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

Quantitation Report (QT Reviewed)

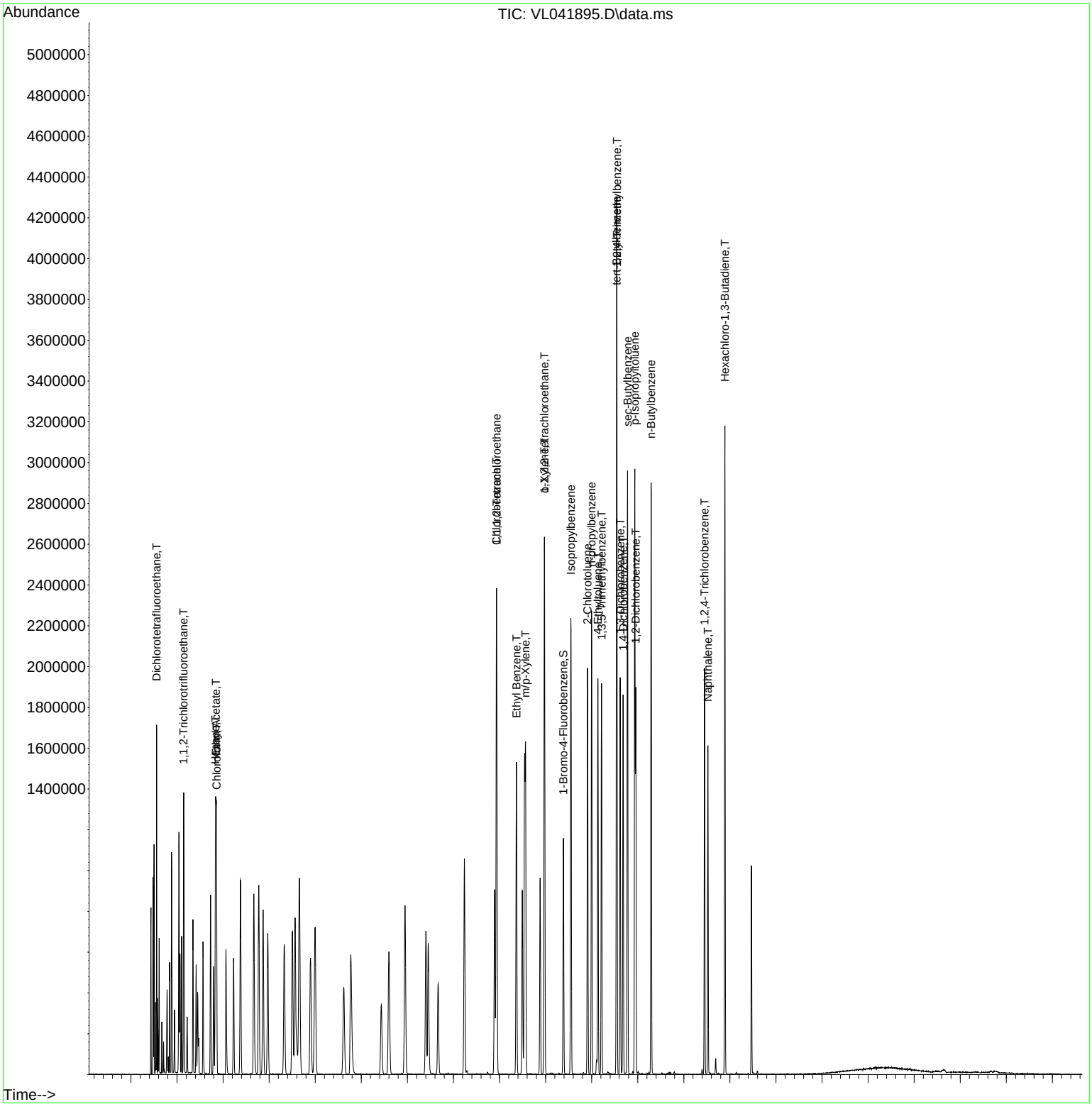
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.793	49	141664	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	417936	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	373391	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	298000	10.133	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	190925	9.894	ppbv	97
3) Chlorodifluoromethane	1.479	51	200455	9.916	ppbv	100
4) Chloromethane	1.534	50	71767	9.889	ppbv	95
5) Vinyl Chloride	1.583	62	71974	9.791	ppbv	94
6) Bromomethane	1.670	94	33594	9.589	ppbv	96
7) Chloroethane	1.706	64	29553	10.333	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	163783	9.712	ppbv	99
9) Propene	1.486	41	82320	9.886	ppbv	99
10) Heptane	4.998	43	225230	10.119	ppbv	99
11) Trichlorofluoromethane	1.881	101	198523	9.890	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	159862	10.162	ppbv	100
13) Ethanol	1.725	45	3780	6.197	ppbv	97
14) Bromoethene	1.784	108	57260	9.941	ppbv	98
15) Acetone	1.839	43	150112	8.822	ppbv	98
16) 1,3-Butadiene	1.612	39	73640	9.643	ppbv	100
17) tert-Butyl alcohol	2.046	59	204358	9.758	ppbv	98
18) 1,1-Dichloroethene	2.039	96	71011	10.015	ppbv	96
19) Isopropyl Alcohol	1.890	45	93592	9.277	ppbv	97
20) Methylene Chloride	2.065	84	60115	8.940	ppbv	97
21) Allyl Chloride	2.101	41	118907	10.092	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	77379	9.669	ppbv	96
23) Vinyl Acetate	2.470	43	80428	9.536	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	155440	10.042	ppbv	98
25) Ethyl Acetate	2.842	43	458484	9.993	ppbv	100
26) Hexane	2.832	57	184436	10.164	ppbv	99
27) Carbon Disulfide	2.156	76	186668	10.395	ppbv	98
28) Methyl tert-Butyl Ether	2.447	73	112489	8.110	ppbv	99
29) Chloroform	2.855	83	282467	9.847	ppbv	99
30) Cyclohexane	3.865	84	159296	10.120	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	187012	9.787	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	284661	10.371	ppbv	99
34) 2-Butanone	2.564	43	261536	9.840	ppbv	99
35) Carbon Tetrachloride	3.771	117	285391	10.871	ppbv	96
36) Benzene	3.667	78	374271	9.764	ppbv	99
37) 1,2-Dichloroethane	3.227	62	214545	9.966	ppbv	100
38) Trichloroethene	4.564	130	153255	10.075	ppbv	95
39) 1,2-Dichloropropane	4.324	63	130483	9.704	ppbv	97
40) 1,4-Dioxane	4.599	88	63736	9.386	ppbv #	99
41) Tetrahydrofuran	3.062	42	148132	10.255	ppbv	98
42) Bromodichloromethane	4.506	83	299656	10.381	ppbv	96
43) Methyl Methacrylate	4.894	69	145663	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.654	57	619804	9.997	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	145145	10.889	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.616	75	186898	10.680	ppbv		98
47)	1,1,2-Trichloroethane	6.596	97	140891	9.886	ppbv		97
48)	Dibromochloromethane	7.399	129	238244	10.835	ppbv		100
49)	Bromoform	9.493	173	201141	11.136	ppbv		99
50)	4-Methyl-2-Pentanone	5.771	43	363675	10.023	ppbv		99
51)	2-Hexanone	7.451	43	284058	10.189	ppbv	#	99
52)	Tetrachloroethene	8.237	164	127806	9.616	ppbv		98
53)	Toluene	6.949	91	427033	10.227	ppbv		99
54)	1,2-Dibromoethane	7.665	107	199339	10.175	ppbv		95
56)	1,1,1,2-Tetrachloroethane	8.937	131	188209	10.103	ppbv		99
57)	Chlorobenzene	8.933	112	329025	9.553	ppbv		99
58)	Ethyl Benzene	9.364	91	601857	10.314	ppbv		99
59)	m/p-Xylene	9.561	91	964838m	20.628	ppbv		
60)	o-Xylene	9.972	91	480442	10.348	ppbv		100
61)	Styrene	9.878	104	229797	11.034	ppbv		99
62)	Isopropylbenzene	10.548	105	728189	10.136	ppbv		100
63)	1,1,2,2-Tetrachloroethane	9.972	83	290998	9.809	ppbv		100
64)	n-propylbenzene	10.998	120	182397	10.048	ppbv		98
65)	tert-Butylbenzene	11.539	119	657521	10.043	ppbv		100
66)	Benzyl Chloride	11.623	91	42509	10.490	ppbv	#	97
67)	sec-Butylbenzene	11.778	105	901260	9.997	ppbv		98
69)	p-Isopropyltoluene	11.934	119	745566	10.043	ppbv		99
70)	n-Butylbenzene	12.290	91	733637	9.965	ppbv		99
71)	2-Chlorotoluene	10.911	91	543858	10.234	ppbv		100
72)	4-Ethyltoluene	11.134	105	568921	10.245	ppbv		99
73)	1,3,5-Trimethylbenzene	11.212	105	493388	10.061	ppbv		99
74)	1,2,4-Trimethylbenzene	11.545	105	528225	9.946	ppbv		98
75)	1,3-Dichlorobenzene	11.617	146	304133	9.664	ppbv		99
76)	1,4-Dichlorobenzene	11.681	146	297765	9.670	ppbv		99
77)	1,2-Dichlorobenzene	11.956	146	298039	9.555	ppbv		99
78)	Hexachloro-1,3-Butadiene	13.889	225	228592	8.929	ppbv		99
79)	Naphthalene	13.523	128	497063	9.295	ppbv		99
80)	Naphthalene,2-methyl-	14.468	142	187571	7.398	ppbv		98
81)	1,2,4-Trichlorobenzene	13.448	180	236181	9.049	ppbv		99

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

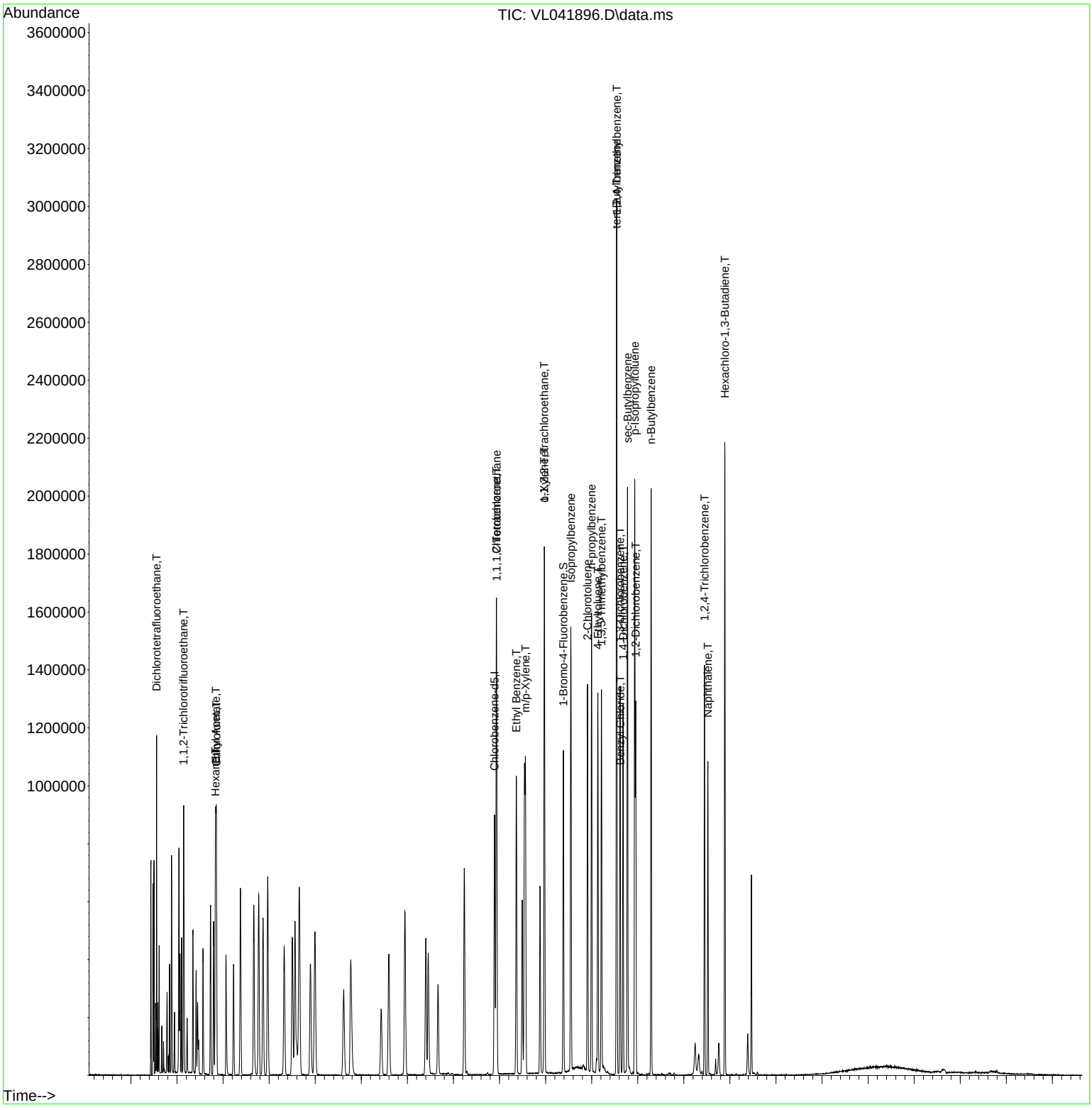
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2	T	Dichlorodifluoromethane	1.362	1.348	1.0	96	0.00
3		Chlorodifluoromethane	1.427	1.415	0.8	99	0.00
4		Chloromethane	0.512	0.507	1.0	96	0.00
5	T	Vinyl Chloride	0.519	0.508	2.1	101	0.00
6	T	Bromomethane	0.247	0.237	4.0	96	0.00
7		Chloroethane	0.202	0.209	-3.5	101	0.00
8	T	Dichlorotetrafluoroethane	1.190	1.156	2.9	98	0.00
9	T	Propene	0.588	0.581	1.2	95	0.00
10	T	Heptane	1.571	1.590	-1.2	97	0.00
11	T	Trichlorofluoromethane	1.417	1.401	1.1	98	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.110	1.128	-1.6	99	0.00
13		Ethanol	0.043	0.027#	37.2#	91	0.00
14	T	Bromoethene	0.407	0.404	0.7	101	0.00
15	T	Acetone	1.201	1.060	11.7	99	0.00
16	T	1,3-Butadiene	0.539	0.520	3.5	98	0.00
17		tert-Butyl alcohol	1.478	1.443	2.4	96	0.00
18	T	1,1-Dichloroethene	0.501	0.501	0.0	102	0.00
19	T	Isopropyl Alcohol	0.712	0.661	7.2	99	0.00
20	T	Methylene Chloride	0.475	0.424	10.7	101	0.00
21	T	Allyl Chloride	0.832	0.839	-0.8	99	0.00
22	T	trans-1,2-Dichloroethene	0.565	0.546	3.4	94	0.00
23	T	Vinyl Acetate	0.595	0.568	4.5	98	0.00
24	T	1,1-Dichloroethane	1.093	1.097	-0.4	100	0.00
25	T	Ethyl Acetate	3.239	3.236	0.1	97	0.00
26	T	Hexane	1.281	1.302	-1.6	96	0.00
27	T	Carbon Disulfide	1.268	1.318	-3.9	97	0.00
28	T	Methyl tert-Butyl Ether	0.979	0.794	18.9	95	0.00
29	T	Chloroform	2.025	1.994	1.5	97	0.00
30	T	Cyclohexane	1.111	1.124	-1.2	97	0.00
31	T	cis-1,2-Dichloroethene	1.349	1.320	2.1	97	0.00
32	T	1,1,1-Trichloroethane	1.938	2.009	-3.7	98	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34	T	2-Butanone	0.636	0.626	1.6	97	0.00
35	T	Carbon Tetrachloride	0.628	0.683	-8.8	98	0.00
36	T	Benzene	0.917	0.896	2.3	94	0.00
37	T	1,2-Dichloroethane	0.515	0.513	0.4	97	0.00
38	T	Trichloroethene	0.364	0.367	-0.8	96	0.00
39	T	1,2-Dichloropropane	0.322	0.312	3.1	95	0.00
40	T	1,4-Dioxane	0.162	0.153	5.6	96	0.00
41	T	Tetrahydrofuran	0.346	0.354	-2.3	95	0.00
42	T	Bromodichloromethane	0.691	0.717	-3.8	98	0.00
43		Methyl Methacrylate	0.341	0.349	-2.3	96	0.00
44	T	2,2,4-Trimethylpentane	1.484	1.483	0.1	95	0.00
45	T	t-1,3-Dichloropropene	0.319	0.347	-8.8	96	0.00
46	T	cis-1,3-Dichloropropene	0.419	0.447	-6.7	93	0.00
47	T	1,1,2-Trichloroethane	0.341	0.337	1.2	94	0.00
48	T	Dibromochloromethane	0.526	0.570	-8.4	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 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	0.432	0.481	-11.3	97	0.00
50	T	4-Methyl-2-Pentanone	0.868	0.870	-0.2	97	0.00
51	T	2-Hexanone	0.667	0.680	-1.9	97	0.00
52	T	Tetrachloroethene	0.318	0.306	3.8	97	0.00
53	T	Toluene	0.999	1.022	-2.3	94	0.00
54	T	1,2-Dibromoethane	0.469	0.477	-1.7	98	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	0.499	0.504	-1.0	98	0.00
57	T	Chlorobenzene	0.922	0.881	4.4	97	0.00
58	T	Ethyl Benzene	1.563	1.612	-3.1	97	0.00
59	T	m/p-Xylene	1.253	1.292	-3.1	99	0.00
60	T	o-Xylene	1.243	1.287	-3.5	98	0.00
61	T	Styrene	0.558	0.615	-10.2	98	0.00
62		Isopropylbenzene	1.924	1.950	-1.4	98	0.00
63	T	1,1,2,2-Tetrachloroethane	0.795	0.779	2.0	97	0.00
64		n-propylbenzene	0.486	0.488	-0.4	97	0.00
65		tert-Butylbenzene	1.753	1.761	-0.5	98	0.00
66	T	Benzyl Chloride	0.109	0.114	-4.6	92	0.00
67		sec-Butylbenzene	2.414	2.414	0.0	98	0.00
68	S	1-Bromo-4-Fluorobenzene	0.788	0.798	-1.3	95	0.00
69		p-Isopropyltoluene	1.988	1.997	-0.5	97	0.00
70		n-Butylbenzene	1.972	1.965	0.4	97	0.00
71		2-Chlorotoluene	1.423	1.457	-2.4	98	0.00
72	T	4-Ethyltoluene	1.487	1.524	-2.5	97	0.00
73	T	1,3,5-Trimethylbenzene	1.313	1.321	-0.6	98	0.00
74	T	1,2,4-Trimethylbenzene	1.422	1.415	0.5	98	0.00
75	T	1,3-Dichlorobenzene	0.843	0.815	3.3	98	0.00
76	T	1,4-Dichlorobenzene	0.825	0.797	3.4	97	0.00
77	T	1,2-Dichlorobenzene	0.835	0.798	4.4	98	0.00
78	T	Hexachloro-1,3-Butadiene	0.686	0.612	10.8	97	0.00
79	T	Naphthalene	1.432	1.331	7.1	99	0.00
80	T	Naphthalene,2-methyl-	0.679	0.502	26.1	101	0.00
81	T	1,2,4-Trichlorobenzene	0.699	0.633	9.4	99	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\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	10.000	10.000	0.0	93	0.00
2	T	Dichlorodifluoromethane	10.000	9.894	1.1	96	0.00
3		Chlorodifluoromethane	10.000	9.916	0.8	99	0.00
4		Chloromethane	10.000	9.889	1.1	96	0.00
5	T	Vinyl Chloride	10.000	9.791	2.1	101	0.00
6	T	Bromomethane	10.000	9.589	4.1	96	0.00
7		Chloroethane	10.000	10.333	-3.3	101	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.712	2.9	98	0.00
9	T	Propene	10.000	9.886	1.1	95	0.00
10	T	Heptane	10.000	10.119	-1.2	97	0.00
11	T	Trichlorofluoromethane	10.000	9.890	1.1	98	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	10.162	-1.6	99	0.00
13		Ethanol	10.000	6.197	38.0#	91	0.00
14	T	Bromoethene	10.000	9.941	0.6	101	0.00
15	T	Acetone	10.000	8.822	11.8	99	0.00
16	T	1,3-Butadiene	10.000	9.643	3.6	98	0.00
17		tert-Butyl alcohol	10.000	9.758	2.4	96	0.00
18	T	1,1-Dichloroethene	10.000	10.015	-0.2	102	0.00
19	T	Isopropyl Alcohol	10.000	9.277	7.2	99	0.00
20	T	Methylene Chloride	10.000	8.940	10.6	101	0.00
21	T	Allyl Chloride	10.000	10.092	-0.9	99	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.669	3.3	94	0.00
23	T	Vinyl Acetate	10.000	9.536	4.6	98	0.00
24	T	1,1-Dichloroethane	10.000	10.042	-0.4	100	0.00
25	T	Ethyl Acetate	10.000	9.993	0.1	97	0.00
26	T	Hexane	10.000	10.164	-1.6	96	0.00
27	T	Carbon Disulfide	10.000	10.395	-3.9	97	0.00
28	T	Methyl tert-Butyl Ether	10.000	8.110	18.9	95	0.00
29	T	Chloroform	10.000	9.847	1.5	97	0.00
30	T	Cyclohexane	10.000	10.120	-1.2	97	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.787	2.1	97	0.00
32	T	1,1,1-Trichloroethane	10.000	10.371	-3.7	98	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	93	0.00
34	T	2-Butanone	10.000	9.840	1.6	97	0.00
35	T	Carbon Tetrachloride	10.000	10.871	-8.7	98	0.00
36	T	Benzene	10.000	9.764	2.4	94	0.00
37	T	1,2-Dichloroethane	10.000	9.966	0.3	97	0.00
38	T	Trichloroethene	10.000	10.075	-0.7	96	0.00
39	T	1,2-Dichloropropane	10.000	9.704	3.0	95	0.00
40	T	1,4-Dioxane	10.000	9.386	6.1	96	0.00
41	T	Tetrahydrofuran	10.000	10.255	-2.6	95	0.00
42	T	Bromodichloromethane	10.000	10.381	-3.8	98	0.00
43		Methyl Methacrylate	10.000	10.229	-2.3	96	0.00
44	T	2,2,4-Trimethylpentane	10.000	9.997	0.0	95	0.00
45	T	t-1,3-Dichloropropene	10.000	10.889	-8.9	96	0.00
46	T	cis-1,3-Dichloropropene	10.000	10.680	-6.8	93	0.00
47	T	1,1,2-Trichloroethane	10.000	9.886	1.1	94	0.00
48	T	Dibromochloromethane	10.000	10.835	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 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	11.136	-11.4	97	0.00
50	T	4-Methyl-2-Pentanone	10.000	10.023	-0.2	97	0.00
51	T	2-Hexanone	10.000	10.189	-1.9	97	0.00
52	T	Tetrachloroethene	10.000	9.616	3.8	97	0.00
53	T	Toluene	10.000	10.227	-2.3	94	0.00
54	T	1,2-Dibromoethane	10.000	10.175	-1.8	98	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	10.000	10.103	-1.0	98	0.00
57	T	Chlorobenzene	10.000	9.553	4.5	97	0.00
58	T	Ethyl Benzene	10.000	10.314	-3.1	97	0.00
59	T	m/p-Xylene	20.000	20.628	-3.1	99	0.00
60	T	o-Xylene	10.000	10.348	-3.5	98	0.00
61	T	Styrene	10.000	11.034	-10.3	98	0.00
62		Isopropylbenzene	10.000	10.136	-1.4	98	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	9.809	1.9	97	0.00
64		n-propylbenzene	10.000	10.048	-0.5	97	0.00
65		tert-Butylbenzene	10.000	10.043	-0.4	98	0.00
66	T	Benzyl Chloride	10.000	10.490	-4.9	92	0.00
67		sec-Butylbenzene	10.000	9.997	0.0	98	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.133	-1.3	95	0.00
69		p-Isopropyltoluene	10.000	10.043	-0.4	97	0.00
70		n-Butylbenzene	10.000	9.965	0.4	97	0.00
71		2-Chlorotoluene	10.000	10.234	-2.3	98	0.00
72	T	4-Ethyltoluene	10.000	10.245	-2.4	97	0.00
73	T	1,3,5-Trimethylbenzene	10.000	10.061	-0.6	98	0.00
74	T	1,2,4-Trimethylbenzene	10.000	9.946	0.5	98	0.00
75	T	1,3-Dichlorobenzene	10.000	9.664	3.4	98	0.00
76	T	1,4-Dichlorobenzene	10.000	9.670	3.3	97	0.00
77	T	1,2-Dichlorobenzene	10.000	9.555	4.5	98	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	8.929	10.7	97	0.00
79	T	Naphthalene	10.000	9.295	7.1	99	0.00
80	T	Naphthalene,2-methyl-	10.000	7.398	26.0	101	0.00
81	T	1,2,4-Trichlorobenzene	10.000	9.049	9.5	99	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.: Q1256 SAS No.: Q1256 SDG No.: Q1256

Instrument ID: MSVOA_L Calibration Date/Time: 02/03/2025 10:48

Lab File ID: VL041958.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:55 16:05

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.519	0.529		1.93	30
1,1-Dichloroethene	0.501	0.473		-5.59	30
cis-1,2-Dichloroethene	1.349	1.325		-1.78	30
1,1,1-Trichloroethane	1.938	2.024		4.44	30
Trichloroethene	0.364	0.408		12.09	30
Tetrachloroethene	0.318	0.325		2.2	30
1-Bromo-4-Fluorobenzene	0.788	0.780		-1.01	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\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.791	49	157470	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	429487	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.885	117	371333	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	289698	9.905	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	218366	10.181	ppbv	100
3) Chlorodifluoromethane	1.477	51	231387	10.298	ppbv	99
4) Chloromethane	1.535	50	86482	10.721	ppbv	97
5) Vinyl Chloride	1.580	62	83248	10.188	ppbv	98
6) Bromomethane	1.667	94	38248	9.822	ppbv	99
7) Chloroethane	1.706	64	34164	10.747	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	186350	9.941	ppbv	99
9) Propene	1.483	41	95902	10.361	ppbv	98
10) Heptane	4.985	43	266975	10.790	ppbv	97
11) Trichlorofluoromethane	1.878	101	212261	9.513	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	162930	9.317	ppbv	99
13) Ethanol	1.722	45	4416	6.513	ppbv	99
14) Bromoethene	1.784	108	60620	9.468	ppbv	100
15) Acetone	1.836	43	176459	9.330	ppbv	99
16) 1,3-Butadiene	1.609	39	86792	10.224	ppbv	99
17) tert-Butyl alcohol	2.043	59	206522	8.872	ppbv	99
18) 1,1-Dichloroethene	2.036	96	74437	9.444	ppbv	93
19) Isopropyl Alcohol	1.888	45	101008	9.007	ppbv	94
20) Methylene Chloride	2.062	84	62977	8.426	ppbv	95
21) Allyl Chloride	2.098	41	126741	9.677	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	86281	9.700	ppbv	97
23) Vinyl Acetate	2.467	43	84390	9.001	ppbv #	98
24) 1,1-Dichloroethane	2.412	63	171515	9.969	ppbv	100
25) Ethyl Acetate	2.839	43	552271	10.829	ppbv	100
26) Hexane	2.829	57	216097	10.713	ppbv	95
27) Carbon Disulfide	2.153	76	200432	10.041	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	149839	9.719	ppbv	100
29) Chloroform	2.852	83	333879	10.471	ppbv	100
30) Cyclohexane	3.862	84	183180	10.470	ppbv	98
31) cis-1,2-Dichloroethene	2.723	61	208686	9.825	ppbv	95
32) 1,1,1-Trichloroethane	3.370	97	318650	10.444	ppbv	99
34) 2-Butanone	2.561	43	312946	11.458	ppbv	99
35) Carbon Tetrachloride	3.765	117	320703	11.888	ppbv	99
36) Benzene	3.661	78	444350	11.280	ppbv	97
37) 1,2-Dichloroethane	3.221	62	241263	10.905	ppbv	99
38) Trichloroethene	4.551	130	175365	11.218	ppbv	90
39) 1,2-Dichloropropane	4.322	63	155514	11.255	ppbv	98
40) 1,4-Dioxane	4.590	88	74675	10.701	ppbv #	97
41) Tetrahydrofuran	3.059	42	174208	11.736	ppbv	98
42) Bromodichloromethane	4.496	83	344670	11.620	ppbv	96
43) Methyl Methacrylate	4.888	69	156216	10.675	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	751181	11.790	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	148089	10.811	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.610	75	202762	11.274	ppbv		99
47)	1,1,2-Trichloroethane	6.590	97	167097	11.410	ppbv		98
48)	Dibromochloromethane	7.393	129	269437	11.924	ppbv		99
49)	Bromoform	9.487	173	225054	12.125	ppbv		100
50)	4-Methyl-2-Pentanone	5.762	43	428753	11.499	ppbv		98
51)	2-Hexanone	7.445	43	336693	11.752	ppbv	#	96
52)	Tetrachloroethene	8.231	164	139466	10.211	ppbv		95
53)	Toluene	6.940	91	483814	11.275	ppbv		100
54)	1,2-Dibromoethane	7.659	107	229203	11.384	ppbv		97
56)	1,1,1,2-Tetrachloroethane	8.931	131	220185	11.885	ppbv		99
57)	Chlorobenzene	8.927	112	386374	11.280	ppbv		98
58)	Ethyl Benzene	9.358	91	669174	11.531	ppbv		97
59)	m/p-Xylene	9.555	91	1106231m	23.782	ppbv		
60)	o-Xylene	9.969	91	555194	12.025	ppbv		98
61)	Styrene	9.876	104	246355	11.895	ppbv		99
62)	Isopropylbenzene	10.542	105	834260	11.677	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.966	83	362310	12.280	ppbv		99
64)	n-propylbenzene	10.992	120	215585	11.942	ppbv		98
65)	tert-Butylbenzene	11.536	119	746398	11.464	ppbv		99
66)	Benzyl Chloride	11.620	91	44973	11.160	ppbv		98
67)	sec-Butylbenzene	11.772	105	1044912	11.655	ppbv		100
69)	p-Isopropyltoluene	11.931	119	867909	11.756	ppbv		99
70)	n-Butylbenzene	12.284	91	848499	11.589	ppbv		100
71)	2-Chlorotoluene	10.905	91	615388	11.644	ppbv		98
72)	4-Ethyltoluene	11.128	105	658660	11.926	ppbv		100
73)	1,3,5-Trimethylbenzene	11.209	105	566361	11.613	ppbv		96
74)	1,2,4-Trimethylbenzene	11.542	105	616177	11.666	ppbv		90
75)	1,3-Dichlorobenzene	11.614	146	357966	11.437	ppbv		99
76)	1,4-Dichlorobenzene	11.675	146	352145	11.500	ppbv		100
77)	1,2-Dichlorobenzene	11.950	146	355386	11.457	ppbv		100
78)	Hexachloro-1,3-Butadiene	13.886	225	247691	9.729	ppbv		99
79)	Naphthalene	13.517	128	553420	10.407	ppbv		99
80)	Naphthalene,2-methyl-	14.465	142	173813	6.894	ppbv		97
81)	1,2,4-Trichlorobenzene	13.446	180	251038	9.671	ppbv		98

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

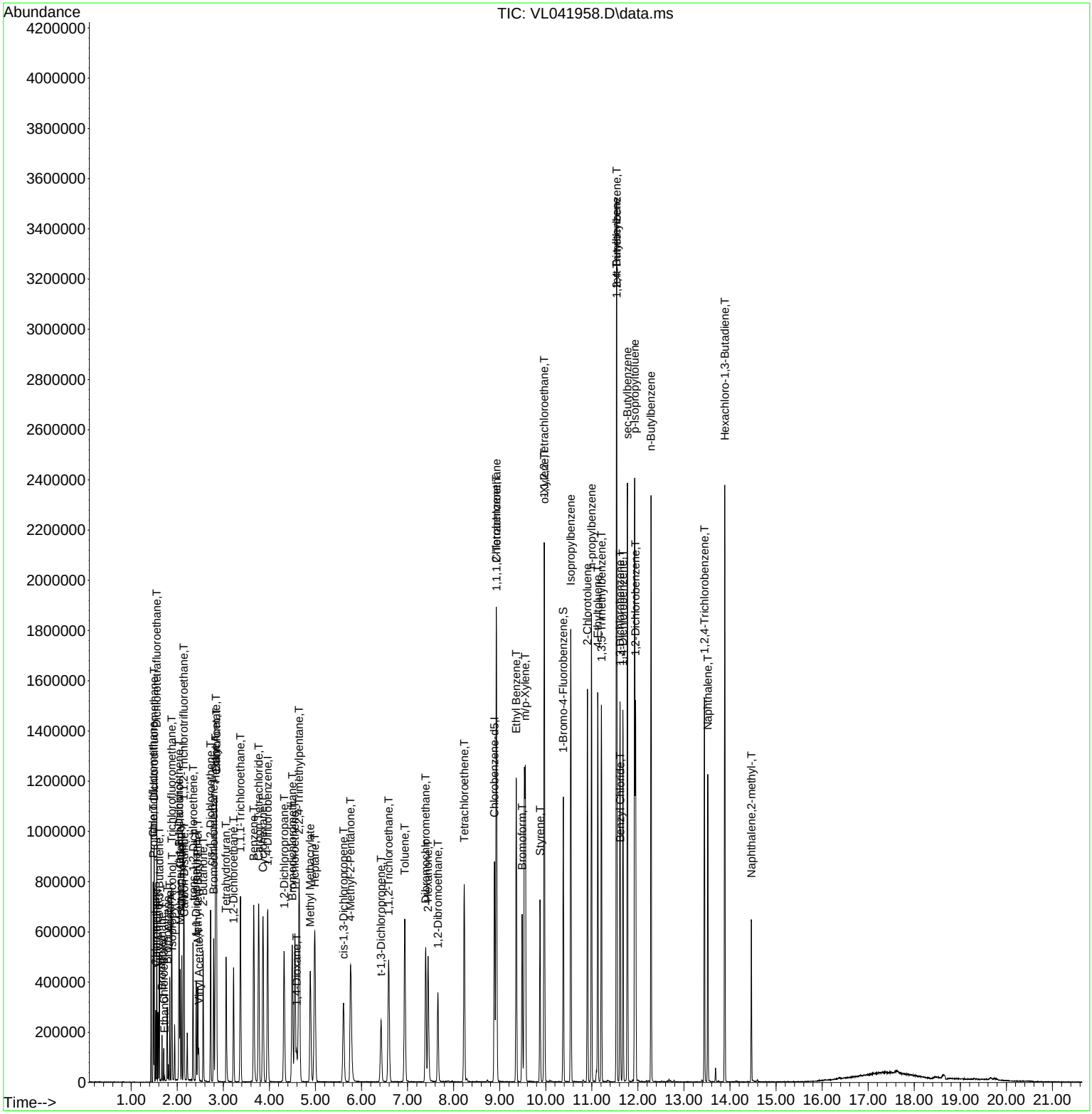
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 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	103	0.00
2	T	Dichlorodifluoromethane	1.362	1.387	-1.8	110	0.00
3		Chlorodifluoromethane	1.427	1.469	-2.9	114	0.00
4		Chloromethane	0.512	0.549	-7.2	115	0.00
5	T	Vinyl Chloride	0.519	0.529	-1.9	117	0.00
6	T	Bromomethane	0.247	0.243	1.6	110	0.00
7		Chloroethane	0.202	0.217	-7.4	116	0.00
8	T	Dichlorotetrafluoroethane	1.190	1.183	0.6	112	0.00
9	T	Propene	0.588	0.609	-3.6	111	0.00
10	T	Heptane	1.571	1.695	-7.9	115	-0.02
11	T	Trichlorofluoromethane	1.417	1.348	4.9	104	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.110	1.035	6.8	101	0.00
13		Ethanol	0.043	0.028#	34.9#	106	0.00
14	T	Bromoethene	0.407	0.385	5.4	107	0.00
15	T	Acetone	1.201	1.121	6.7	117	0.00
16	T	1,3-Butadiene	0.539	0.551	-2.2	115	0.00
17		tert-Butyl alcohol	1.478	1.312	11.2	97	0.00
18	T	1,1-Dichloroethene	0.501	0.473	5.6	107	0.00
19	T	Isopropyl Alcohol	0.712	0.641	10.0	107	0.00
20	T	Methylene Chloride	0.475	0.400	15.8	106	0.00
21	T	Allyl Chloride	0.832	0.805	3.2	105	0.00
22	T	trans-1,2-Dichloroethene	0.565	0.548	3.0	105	0.00
23	T	Vinyl Acetate	0.595	0.536	9.9	103	0.00
24	T	1,1-Dichloroethane	1.093	1.089	0.4	111	0.00
25	T	Ethyl Acetate	3.239	3.507	-8.3	117	0.00
26	T	Hexane	1.281	1.372	-7.1	113	0.00
27	T	Carbon Disulfide	1.268	1.273	-0.4	105	0.00
28	T	Methyl tert-Butyl Ether	0.979	0.952	2.8	127	0.00
29	T	Chloroform	2.025	2.120	-4.7	115	0.00
30	T	Cyclohexane	1.111	1.163	-4.7	111	0.00
31	T	cis-1,2-Dichloroethene	1.349	1.325	1.8	108	0.00
32	T	1,1,1-Trichloroethane	1.938	2.024	-4.4	110	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	96	-0.01
34	T	2-Butanone	0.636	0.729	-14.6	116	0.00
35	T	Carbon Tetrachloride	0.628	0.747	-18.9	110	-0.01
36	T	Benzene	0.917	1.035	-12.9	112	0.00
37	T	1,2-Dichloroethane	0.515	0.562	-9.1	109	0.00
38	T	Trichloroethene	0.364	0.408	-12.1	110	-0.01
39	T	1,2-Dichloropropane	0.322	0.362	-12.4	113	0.00
40	T	1,4-Dioxane	0.162	0.174	-7.4	113	-0.02
41	T	Tetrahydrofuran	0.346	0.406	-17.3	112	0.00
42	T	Bromodichloromethane	0.691	0.803	-16.2	112	-0.01
43		Methyl Methacrylate	0.341	0.364	-6.7	103	0.00
44	T	2,2,4-Trimethylpentane	1.484	1.749	-17.9	115	-0.01
45	T	t-1,3-Dichloropropene	0.319	0.345	-8.2	97	0.00
46	T	cis-1,3-Dichloropropene	0.419	0.472	-12.6	101	-0.01
47	T	1,1,2-Trichloroethane	0.341	0.389	-14.1	112	0.00
48	T	Dibromochloromethane	0.526	0.627	-19.2	110	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 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	0.432	0.524	-21.3	109	0.00
50	T	4-Methyl-2-Pentanone	0.868	0.998	-15.0	115	-0.02
51	T	2-Hexanone	0.667	0.784	-17.5	115	0.00
52	T	Tetrachloroethene	0.318	0.325	-2.2	106	0.00
53	T	Toluene	0.999	1.126	-12.7	107	-0.01
54	T	1,2-Dibromoethane	0.469	0.534	-13.9	112	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	0.499	0.593	-18.8	114	0.00
57	T	Chlorobenzene	0.922	1.041	-12.9	114	0.00
58	T	Ethyl Benzene	1.563	1.802	-15.3	108	0.00
59	T	m/p-Xylene	1.253	1.490	-18.9	113	0.00
60	T	o-Xylene	1.243	1.495	-20.3	113	0.00
61	T	Styrene	0.558	0.663	-18.8	105	0.00
62		Isopropylbenzene	1.924	2.247	-16.8	112	0.00
63	T	1,1,2,2-Tetrachloroethane	0.795	0.976	-22.8	121	0.00
64		n-propylbenzene	0.486	0.581	-19.5	115	0.00
65		tert-Butylbenzene	1.753	2.010	-14.7	111	0.00
66	T	Benzyl Chloride	0.109	0.121	-11.0	98	0.00
67		sec-Butylbenzene	2.414	2.814	-16.6	114	0.00
68	S	1-Bromo-4-Fluorobenzene	0.788	0.780	1.0	92	0.00
69		p-Isopropyltoluene	1.988	2.337	-17.6	113	0.00
70		n-Butylbenzene	1.972	2.285	-15.9	112	0.00
71		2-Chlorotoluene	1.423	1.657	-16.4	111	0.00
72	T	4-Ethyltoluene	1.487	1.774	-19.3	112	0.00
73	T	1,3,5-Trimethylbenzene	1.313	1.525	-16.1	112	0.00
74	T	1,2,4-Trimethylbenzene	1.422	1.659	-16.7	114	0.00
75	T	1,3-Dichlorobenzene	0.843	0.964	-14.4	115	0.00
76	T	1,4-Dichlorobenzene	0.825	0.948	-14.9	114	0.00
77	T	1,2-Dichlorobenzene	0.835	0.957	-14.6	117	0.00
78	T	Hexachloro-1,3-Butadiene	0.686	0.667	2.8	106	0.00
79	T	Naphthalene	1.432	1.490	-4.1	110	0.00
80	T	Naphthalene,2-methyl-	0.679	0.468	31.1#	94	0.00
81	T	1,2,4-Trichlorobenzene	0.699	0.676	3.3	105	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\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 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	103	0.00
2	T	Dichlorodifluoromethane	10.000	10.181	-1.8	110	0.00
3		Chlorodifluoromethane	10.000	10.298	-3.0	114	0.00
4		Chloromethane	10.000	10.721	-7.2	115	0.00
5	T	Vinyl Chloride	10.000	10.188	-1.9	117	0.00
6	T	Bromomethane	10.000	9.822	1.8	110	0.00
7		Chloroethane	10.000	10.747	-7.5	116	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.941	0.6	112	0.00
9	T	Propene	10.000	10.361	-3.6	111	0.00
10	T	Heptane	10.000	10.790	-7.9	115	-0.02
11	T	Trichlorofluoromethane	10.000	9.513	4.9	104	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.317	6.8	101	0.00
13		Ethanol	10.000	6.513	34.9#	106	0.00
14	T	Bromoethene	10.000	9.468	5.3	107	0.00
15	T	Acetone	10.000	9.330	6.7	117	0.00
16	T	1,3-Butadiene	10.000	10.224	-2.2	115	0.00
17		tert-Butyl alcohol	10.000	8.872	11.3	97	0.00
18	T	1,1-Dichloroethene	10.000	9.444	5.6	107	0.00
19	T	Isopropyl Alcohol	10.000	9.007	9.9	107	0.00
20	T	Methylene Chloride	10.000	8.426	15.7	106	0.00
21	T	Allyl Chloride	10.000	9.677	3.2	105	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.700	3.0	105	0.00
23	T	Vinyl Acetate	10.000	9.001	10.0	103	0.00
24	T	1,1-Dichloroethane	10.000	9.969	0.3	111	0.00
25	T	Ethyl Acetate	10.000	10.829	-8.3	117	0.00
26	T	Hexane	10.000	10.713	-7.1	113	0.00
27	T	Carbon Disulfide	10.000	10.041	-0.4	105	0.00
28	T	Methyl tert-Butyl Ether	10.000	9.719	2.8	127	0.00
29	T	Chloroform	10.000	10.471	-4.7	115	0.00
30	T	Cyclohexane	10.000	10.470	-4.7	111	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.825	1.8	108	0.00
32	T	1,1,1-Trichloroethane	10.000	10.444	-4.4	110	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	96	-0.01
34	T	2-Butanone	10.000	11.458	-14.6	116	0.00
35	T	Carbon Tetrachloride	10.000	11.888	-18.9	110	-0.01
36	T	Benzene	10.000	11.280	-12.8	112	0.00
37	T	1,2-Dichloroethane	10.000	10.905	-9.0	109	0.00
38	T	Trichloroethene	10.000	11.218	-12.2	110	-0.01
39	T	1,2-Dichloropropane	10.000	11.255	-12.6	113	0.00
40	T	1,4-Dioxane	10.000	10.701	-7.0	113	-0.02
41	T	Tetrahydrofuran	10.000	11.736	-17.4	112	0.00
42	T	Bromodichloromethane	10.000	11.620	-16.2	112	-0.01
43		Methyl Methacrylate	10.000	10.675	-6.8	103	0.00
44	T	2,2,4-Trimethylpentane	10.000	11.790	-17.9	115	-0.01
45	T	t-1,3-Dichloropropene	10.000	10.811	-8.1	97	0.00
46	T	cis-1,3-Dichloropropene	10.000	11.274	-12.7	101	-0.01
47	T	1,1,2-Trichloroethane	10.000	11.410	-14.1	112	0.00
48	T	Dibromochloromethane	10.000	11.924	-19.2	110	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041958.D
Acq On : 03 Feb 2025 10:48
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 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	12.125	-21.3	109	0.00
50	T	4-Methyl-2-Pentanone	10.000	11.499	-15.0	115	-0.02
51	T	2-Hexanone	10.000	11.752	-17.5	115	0.00
52	T	Tetrachloroethene	10.000	10.211	-2.1	106	0.00
53	T	Toluene	10.000	11.275	-12.8	107	-0.01
54	T	1,2-Dibromoethane	10.000	11.384	-13.8	112	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	10.000	11.885	-18.8	114	0.00
57	T	Chlorobenzene	10.000	11.280	-12.8	114	0.00
58	T	Ethyl Benzene	10.000	11.531	-15.3	108	0.00
59	T	m/p-Xylene	20.000	23.782	-18.9	113	0.00
60	T	o-Xylene	10.000	12.025	-20.3	113	0.00
61	T	Styrene	10.000	11.895	-18.9	105	0.00
62		Isopropylbenzene	10.000	11.677	-16.8	112	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	12.280	-22.8	121	0.00
64		n-propylbenzene	10.000	11.942	-19.4	115	0.00
65		tert-Butylbenzene	10.000	11.464	-14.6	111	0.00
66	T	Benzyl Chloride	10.000	11.160	-11.6	98	0.00
67		sec-Butylbenzene	10.000	11.655	-16.5	114	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	9.905	1.0	92	0.00
69		p-Isopropyltoluene	10.000	11.756	-17.6	113	0.00
70		n-Butylbenzene	10.000	11.589	-15.9	112	0.00
71		2-Chlorotoluene	10.000	11.644	-16.4	111	0.00
72	T	4-Ethyltoluene	10.000	11.926	-19.3	112	0.00
73	T	1,3,5-Trimethylbenzene	10.000	11.613	-16.1	112	0.00
74	T	1,2,4-Trimethylbenzene	10.000	11.666	-16.7	114	0.00
75	T	1,3-Dichlorobenzene	10.000	11.437	-14.4	115	0.00
76	T	1,4-Dichlorobenzene	10.000	11.500	-15.0	114	0.00
77	T	1,2-Dichlorobenzene	10.000	11.457	-14.6	117	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	9.729	2.7	106	0.00
79	T	Naphthalene	10.000	10.407	-4.1	110	0.00
80	T	Naphthalene,2-methyl-	10.000	6.894	31.1#	94	0.00
81	T	1,2,4-Trichlorobenzene	10.000	9.671	3.3	105	0.00

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

QC SAMPLE DATA

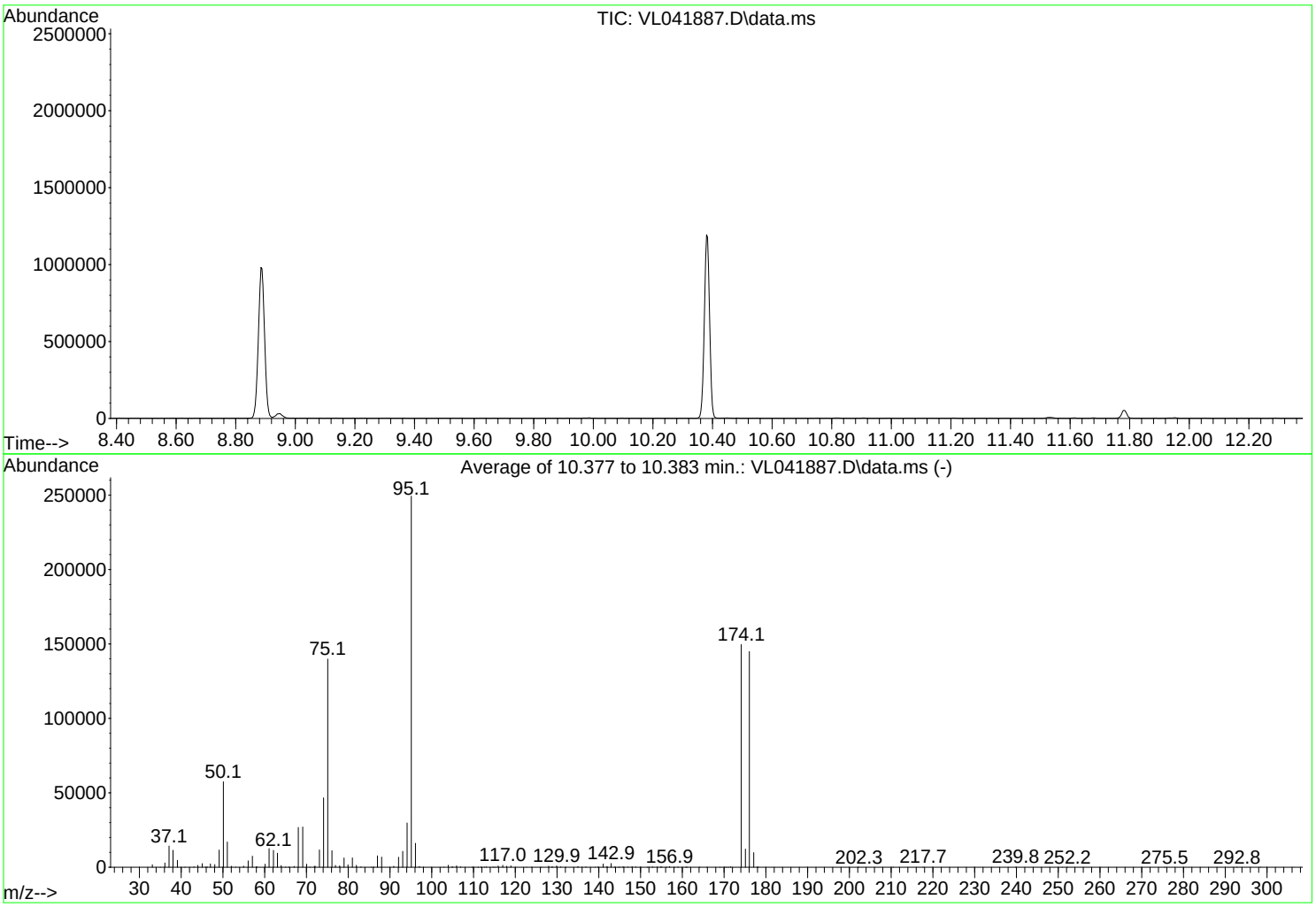
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 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	23.0	57448	PASS
75	95	30	66	56.1	139893	PASS
95	95	100	100	100.0	249280	PASS
96	95	5	9	6.5	16102	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	60.0	149632	PASS
175	174	4	9	8.2	12223	PASS
176	174	93	101	96.8	144917	PASS
177	176	5	9	6.8	9838	PASS

Average of 10.377 to 10.383 min.: VL041887.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1721	46.25	187	58.00	217	69.10	27064
35.00	34	47.00	2270	58.20	169	70.05	2086
36.10	2904	48.05	1800	60.10	2093	70.80	62
37.10	14256	49.10	11606	61.05	12532	71.90	478
38.05	11416	50.10	57448	62.10	11347	72.05	855
39.10	4640	51.05	16983	63.05	9441	73.10	11647
40.90	20	52.05	698	63.95	1185	74.10	46637
43.05	223	53.10	70	65.05	142	75.10	139893
44.00	1302	54.95	811	65.80	140	76.10	11160
45.05	2448	56.05	4320	67.05	599	76.95	1289
45.85	203	57.05	7492	68.05	26765	77.95	981

Instrument :
MSVOA_L
ClientSampleId :
BFB

Average of 10.377 to 10.383 min.: VL041887.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.00	6243	93.05	10708	106.90	325	117.00	1338
79.95	1666	94.10	29779	109.70	72	117.95	731
81.00	6311	95.10	249280	110.00	50	118.95	953
81.95	1325	96.10	16102	111.10	152	122.70	24
83.05	258	97.05	586	111.80	111	123.95	57
85.55	75	98.00	64	112.60	51	126.30	40
86.10	108	102.90	20	113.05	210	128.00	751
87.00	7686	103.95	1357	114.65	88	128.75	209
88.00	6856	104.80	96	114.90	24	129.00	149
90.90	686	105.05	252	115.30	44	129.90	917
92.05	6774	105.95	966	115.90	891	130.90	280

Average of 10.377 to 10.383 min.: VL041887.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.10	22	144.00	36	152.85	252	165.90	17
135.00	547	144.70	54	154.05	188	169.00	21
136.00	45	145.00	117	154.85	333	170.10	20
136.90	224	145.80	267	155.10	178	170.45	75
139.10	30	146.00	132	156.30	48	171.00	82
139.80	185	146.95	170	156.95	484	171.55	299
141.05	2202	147.95	449	158.10	23	174.10	149632
141.85	250	148.85	204	158.95	237	175.10	12223
142.10	215	150.05	156	160.85	178	176.05	144917
142.95	2558	151.60	28	161.10	61	177.10	9838
143.80	73	152.00	94	164.20	20	177.95	205

Average of 10.377 to 10.383 min.: VL041887.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
178.20	123						
202.00	26						
202.30	27						
210.50	25						
217.65	77						
239.80	44						
251.00	21						
252.20	26						
275.50	23						
292.80	18						
298.50	17						

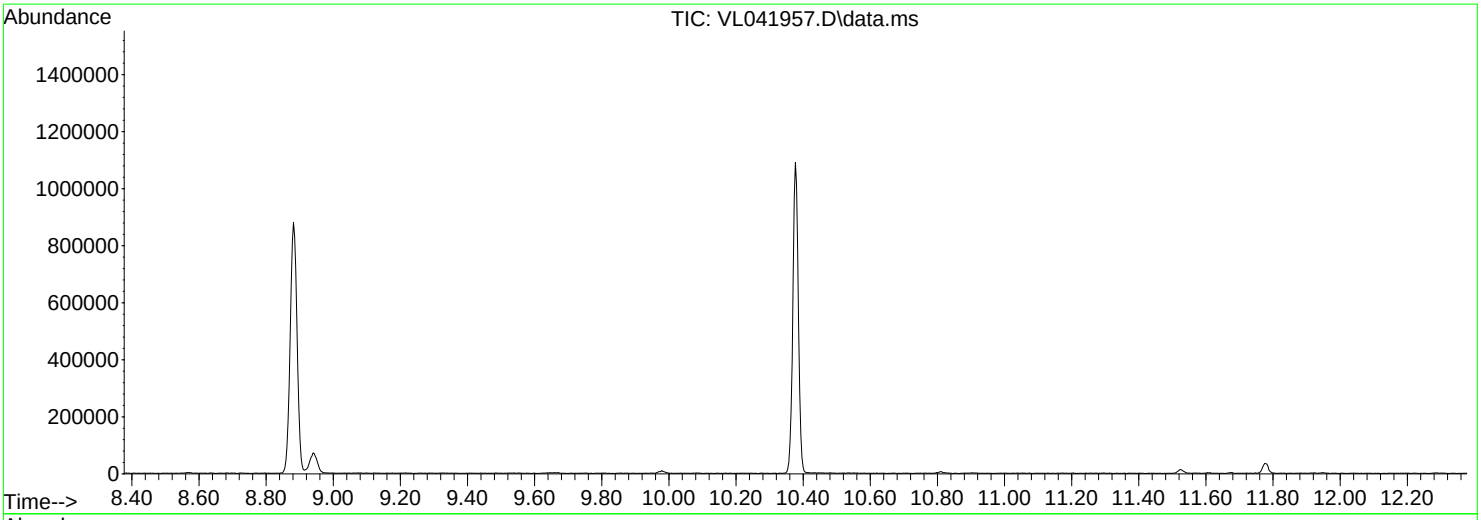
BFB

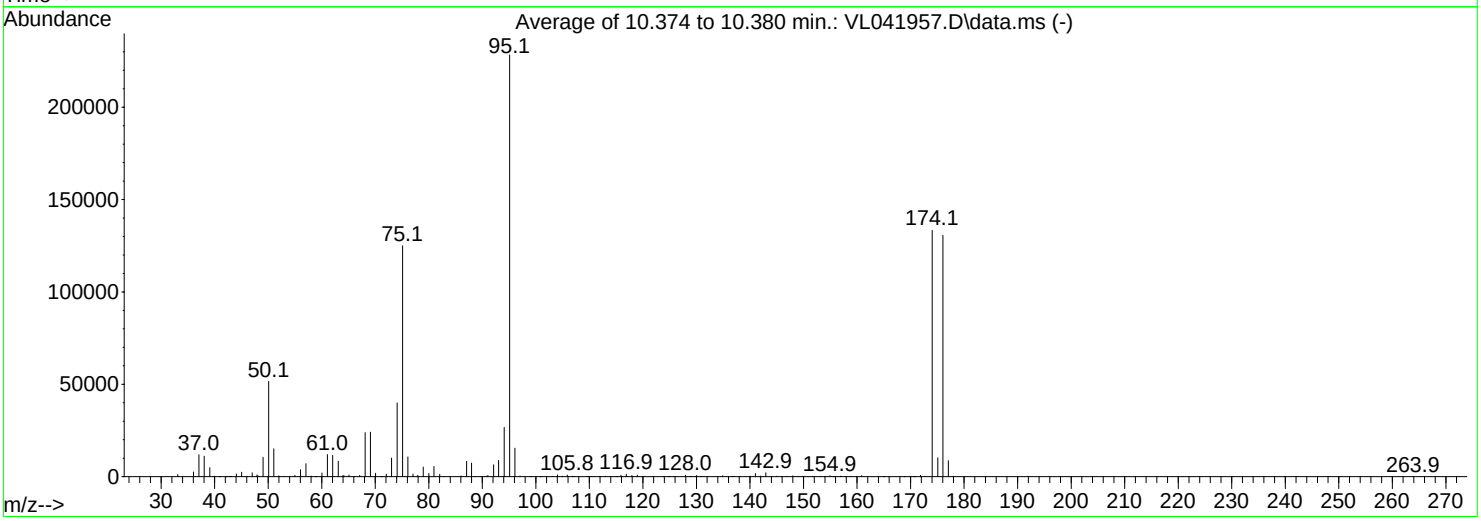
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041957.D
Acq On : 03 Feb 2025 09:47
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 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	51539	PASS
75	95	30	66	54.7	125019	PASS
95	95	100	100	100.0	228352	PASS
96	95	5	9	6.8	15439	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.4	133352	PASS
175	174	4	9	7.7	10244	PASS
176	174	93	101	98.0	130661	PASS
177	176	5	9	6.6	8641	PASS

Average of 10.374 to 10.380 min.: VL041957.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1120	45.05	2463	55.00	689	65.10	84
36.05	2514	46.00	184	56.05	3741	66.05	6
37.05	11892	47.00	2084	57.05	7026	67.10	72
38.05	11097	47.90	958	58.05	254	68.10	2382
39.10	4832	48.10	422	58.90	19	69.10	24107
39.95	251	49.05	10474	60.05	2002	70.05	1798
40.90	35	50.10	51539	61.05	11945	71.10	45
42.20	26	51.05	15057	62.05	11539	72.05	1431
42.80	21	51.90	324	63.10	8334	73.05	10025
43.15	208	52.10	274	63.90	422	74.10	39931
44.05	1487	52.90	142	64.15	736	75.10	125019

Instrument :
MSVOA_L
ClientSampleId :
BFB

Average of 10.374 to 10.380 min.: VL041957.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.10	10646	88.00	7333	99.00	28	111.80	156
77.05	1418	88.70	126	100.80	23	112.10	61
77.80	192	89.60	71	103.05	125	112.95	283
77.95	720	90.80	252	104.05	947	114.75	115
78.95	5171	91.05	573	105.00	301	115.10	34
80.00	1716	92.10	6387	105.85	897	115.90	824
80.95	5529	93.05	8721	106.85	269	116.90	1318
82.05	1302	94.10	26645	107.10	82	117.95	645
82.95	83	95.10	228352	109.75	66	118.95	803
86.05	386	96.10	15439	110.35	48	119.90	29
87.05	8233	97.05	363	110.85	100	121.70	49

Average of 10.374 to 10.380 min.: VL041957.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.85	123	136.75	135	148.95	203	160.85	491
124.80	43	137.00	198	149.90	229	165.00	18
125.70	49	140.05	224	151.65	78	168.80	18
127.95	809	141.00	1633	153.15	149	169.95	60
128.90	210	141.90	327	154.05	160	170.60	29
129.10	123	142.95	2114	154.95	531	170.90	161
129.90	218	144.00	72	155.60	22	171.85	664
130.05	579	145.00	241	156.90	253	174.05	133352
130.70	97	145.90	188	157.10	161	175.10	10244
131.00	189	146.95	190	157.80	111	176.05	130661
134.90	481	148.00	461	158.85	171	177.05	8641

Average of 10.374 to 10.380 min.: VL041957.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
178.00	253						
263.90	65						

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

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	2173 Clarendon Brooklyn, NY	Date Received:	
Client Sample ID:	VL0203ABL02	SDG No.:	Q1256
Lab Sample ID:	VL0203ABL02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041960.D	1		02/03/25 12:05	VL020325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	151000		2.79			
540-36-3	1,4-Difluorobenzene	408000		3.965			
3114-55-4	Chlorobenzene-d5	347000		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\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

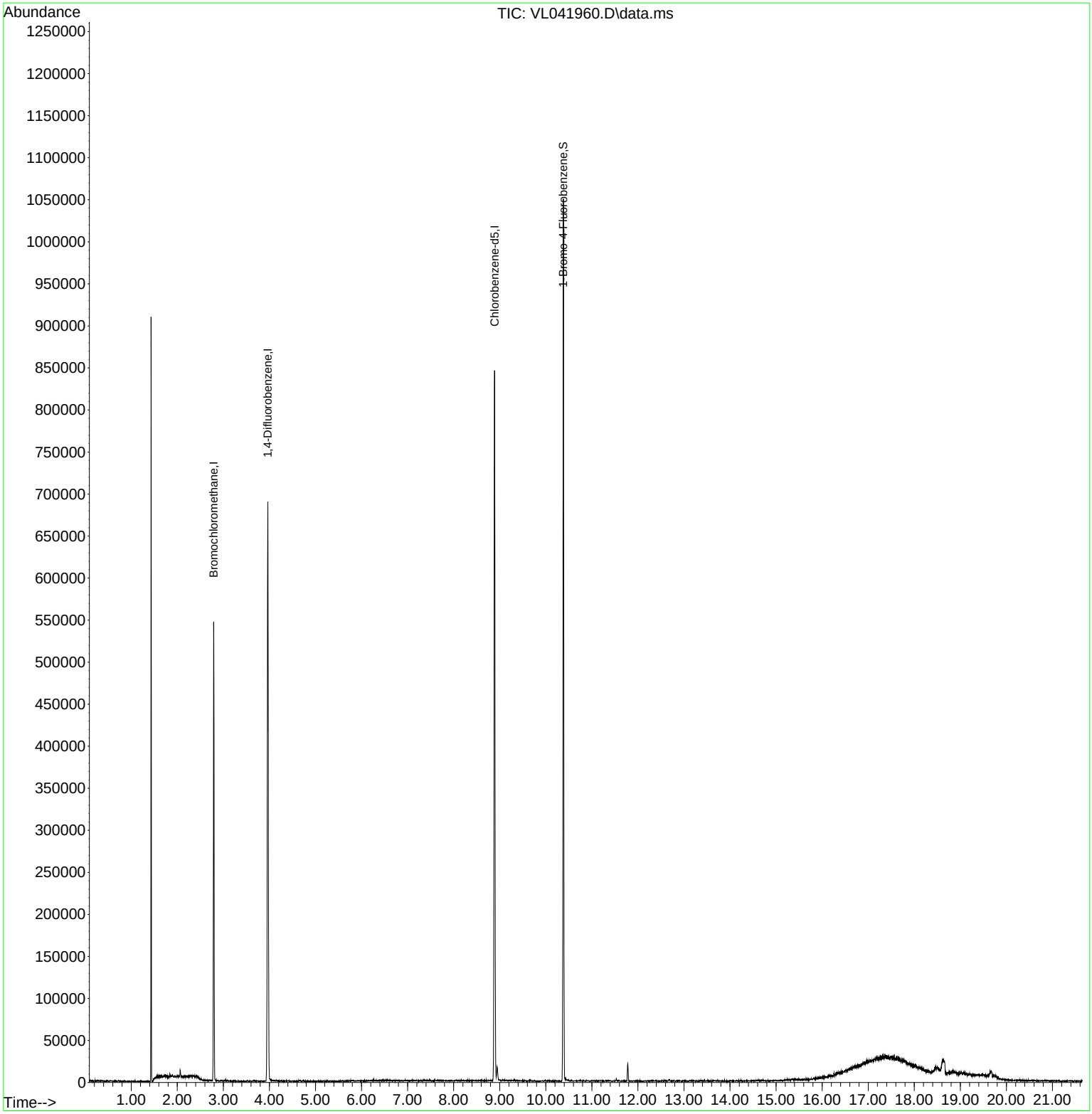
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	151198	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	407814	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347345	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	262058	9.579	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.800%			
Target Compounds						Qvalue

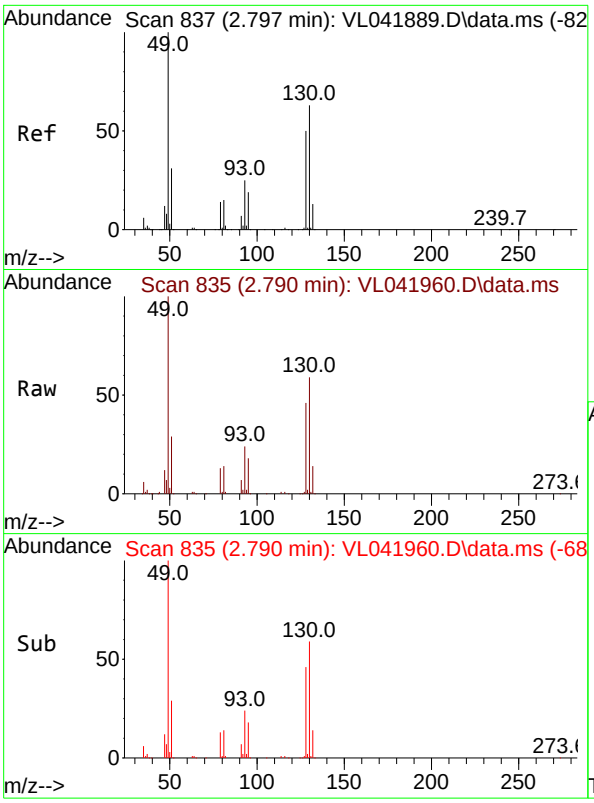
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



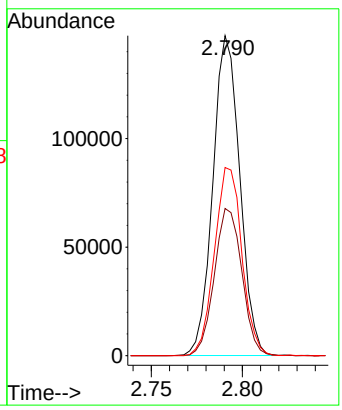


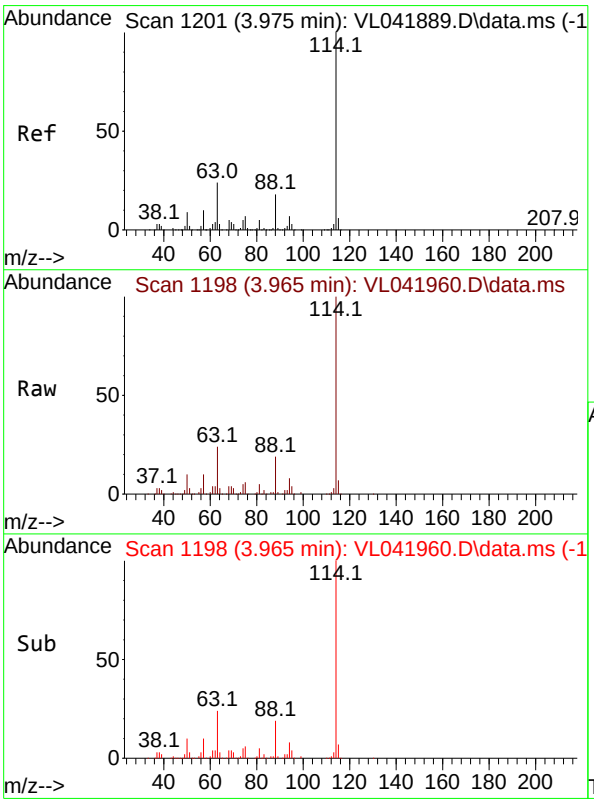
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 8
Delta R.T. -0.007 min
Lab File: VL041960.D
Acq: 03 Feb 2025 12:05

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Tgt Ion: 49 Resp: 151198

Ion	Ratio	Lower	Upper
49	100		
128	47.2	24.3	73.0
130	60.1	31.1	93.2

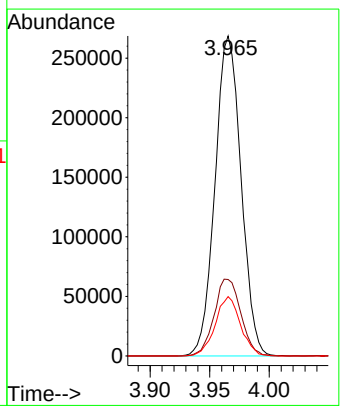


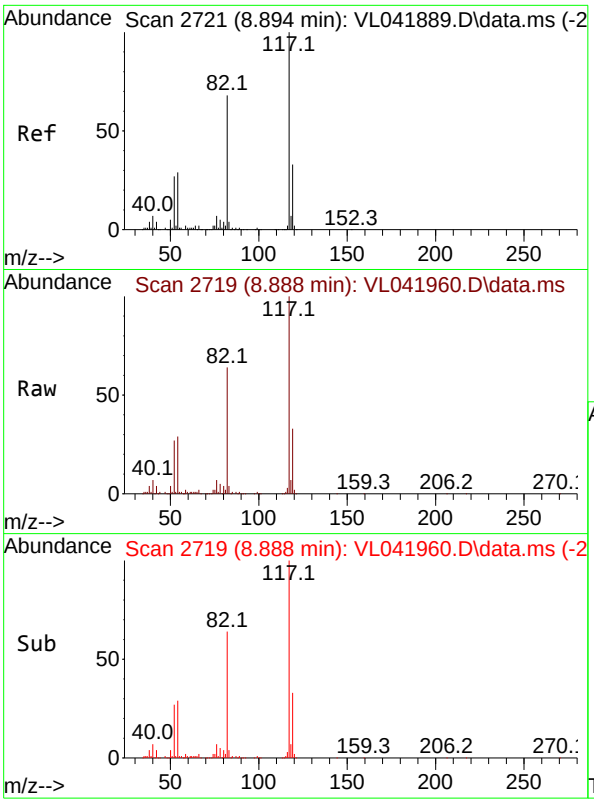


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.009 min
Lab File: VL041960.D
Acq: 03 Feb 2025 12:05

Tgt Ion:114 Resp: 407814

Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.8	29.6
88	18.0	14.4	21.6



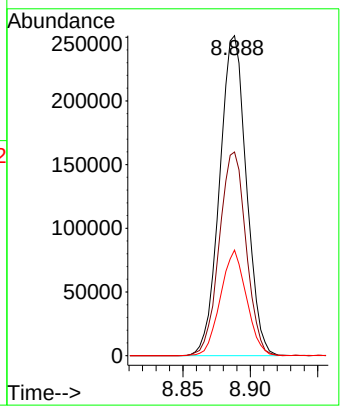


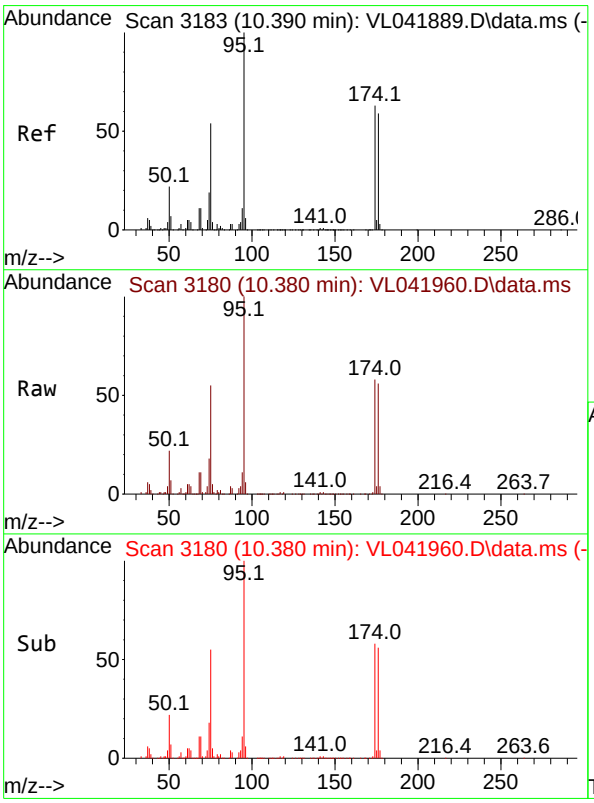
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2
Delta R.T. -0.006 min
Lab File: VL041960.D
Acq: 03 Feb 2025 12:05

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Tgt Ion:117 Resp: 347345

Ion	Ratio	Lower	Upper
117	100		
82	63.8	54.2	81.4
119	32.3	25.0	37.6

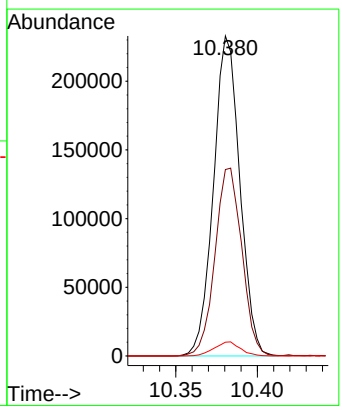




#68
1-Bromo-4-Fluorobenzene
Concen: 9.579 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.009 min
Lab File: VL041960.D
Acq: 03 Feb 2025 12:05

Tgt Ion: 95 Resp: 262058

Ion	Ratio	Lower	Upper
95	100		
174	59.9	49.0	73.4
175	4.4	3.8	5.8



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

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	2173 Clarendon Brooklyn, NY	Date Received:	
Client Sample ID:	VL0203ABS01	SDG No.:	Q1256
Lab Sample ID:	VL0203ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041961.D	1		02/03/25 12:57	VL020325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	9.80	25.1		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	9.20	36.5		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.90	39.3		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	10.3	56.2		0.050	0.16	ug/m3
79-01-6	Trichloroethene	11.0	59.1		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	10.2	69.2		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	153000		2.79			
540-36-3	1,4-Difluorobenzene	419000		3.965			
3114-55-4	Chlorobenzene-d5	367000		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 Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041961.D
Acq On : 03 Feb 2025 12:57
Operator : SY/MD
Sample : VL0203ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:34:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	152847	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	418895	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	367437	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	287209	9.924	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	203280	9.764	ppbv	99
3) Chlorodifluoromethane	1.476	51	225433	10.336	ppbv	99
4) Chloromethane	1.535	50	81880	10.457	ppbv	94
5) Vinyl Chloride	1.583	62	77713	9.799	ppbv	98
6) Bromomethane	1.670	94	36640	9.694	ppbv	88
7) Chloroethane	1.706	64	31280	10.137	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	179670	9.875	ppbv	98
9) Propene	1.486	41	91411	10.174	ppbv	99
10) Heptane	4.985	43	161638	6.731	ppbv	99
11) Trichlorofluoromethane	1.881	101	201683	9.312	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	164938	9.717	ppbv	98
13) Ethanol	1.722	45	4592	6.978	ppbv	91
14) Bromoethene	1.784	108	57833	9.306	ppbv	99
15) Acetone	1.839	43	165826	9.033	ppbv	98
16) 1,3-Butadiene	1.609	39	83163	10.093	ppbv	98
17) tert-Butyl alcohol	2.043	59	198776	8.797	ppbv	98
18) 1,1-Dichloroethene	2.036	96	70323	9.192	ppbv	97
19) Isopropyl Alcohol	1.891	45	99004	9.096	ppbv	95
20) Methylene Chloride	2.065	84	62278	8.584	ppbv	99
21) Allyl Chloride	2.098	41	122853	9.664	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	85089	9.855	ppbv	98
23) Vinyl Acetate	2.467	43	86919	9.552	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	166034	9.942	ppbv	99
25) Ethyl Acetate	2.842	43	536156	10.831	ppbv	100
26) Hexane	2.832	57	210051	10.728	ppbv	95
27) Carbon Disulfide	2.153	76	198444	10.242	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	110198	7.364	ppbv	99
29) Chloroform	2.855	83	325966	10.532	ppbv	96
30) Cyclohexane	3.865	84	173840	10.236	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	204611	9.925	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	305623	10.320	ppbv	99
34) 2-Butanone	2.564	43	302190	11.344	ppbv	99
35) Carbon Tetrachloride	3.768	117	309917	11.778	ppbv	97
36) Benzene	3.664	78	426241	11.094	ppbv	99
37) 1,2-Dichloroethane	3.224	62	235620	10.920	ppbv	99
38) Trichloroethene	4.554	130	167629	10.995	ppbv	97
39) 1,2-Dichloropropane	4.318	63	151232	11.221	ppbv	97
40) 1,4-Dioxane	4.590	88	74021	10.876	ppbv #	100
41) Tetrahydrofuran	3.062	42	169798	11.728	ppbv	98
42) Bromodichloromethane	4.496	83	335595	11.600	ppbv	98
43) Methyl Methacrylate	4.884	69	102724	7.197	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	725196	11.670	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	145441	10.886	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041961.D
Acq On : 03 Feb 2025 12:57
Operator : SY/MD
Sample : VL0203ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:34:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 1
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	cis-1,3-Dichloropropene	5.609	75	122518	6.985	ppbv		98
47)	1,1,2-Trichloroethane	6.590	97	167038	11.694	ppbv		95
48)	Dibromochloromethane	7.390	129	260120	11.803	ppbv		100
49)	Bromoform	9.487	173	217089	11.991	ppbv		99
50)	4-Methyl-2-Pentanone	5.765	43	267280	7.350	ppbv		98
51)	2-Hexanone	7.445	43	328817	11.767	ppbv	#	96
52)	Tetrachloroethene	8.225	164	136143	10.220	ppbv		97
53)	Toluene	6.936	91	469033	11.207	ppbv		99
54)	1,2-Dibromoethane	7.655	107	222983	11.356	ppbv		100
56)	1,1,1,2-Tetrachloroethane	8.927	131	214758	11.715	ppbv		99
57)	Chlorobenzene	8.924	112	382465	11.284	ppbv		99
58)	Ethyl Benzene	9.357	91	646825	11.264	ppbv		98
59)	m/p-Xylene	9.555	91	1068374m	23.212	ppbv		
60)	o-Xylene	9.966	91	537558	11.766	ppbv		98
61)	Styrene	9.872	104	239767	11.699	ppbv		98
62)	Isopropylbenzene	10.542	105	802003	11.345	ppbv		99
63)	1,1,2,2-Tetrachloroethane	9.966	83	357905	12.260	ppbv		100
64)	n-propylbenzene	10.992	120	208748	11.686	ppbv		99
65)	tert-Butylbenzene	11.536	119	731901	11.360	ppbv		99
66)	Benzyl Chloride	11.620	91	41013	10.285	ppbv		97
67)	sec-Butylbenzene	11.772	105	1015579	11.448	ppbv		99
69)	p-Isopropyltoluene	11.931	119	836492	11.451	ppbv		98
70)	n-Butylbenzene	12.290	91	824000	11.374	ppbv		100
71)	2-Chlorotoluene	10.905	91	592446	11.329	ppbv		99
72)	4-Ethyltoluene	11.131	105	634050	11.602	ppbv		99
73)	1,3,5-Trimethylbenzene	11.209	105	551677	11.432	ppbv		97
74)	1,2,4-Trimethylbenzene	11.542	105	602744	11.533	ppbv		96
75)	1,3-Dichlorobenzene	11.613	146	348392	11.249	ppbv		99
76)	1,4-Dichlorobenzene	11.678	146	344428	11.367	ppbv		99
77)	1,2-Dichlorobenzene	11.953	146	350456	11.418	ppbv		98
78)	Hexachloro-1,3-Butadiene	13.892	225	239328	9.500	ppbv		99
79)	Naphthalene	13.523	128	539332	10.249	ppbv		98
80)	Naphthalene,2-methyl-	14.468	142	172189	6.902	ppbv		97
81)	1,2,4-Trichlorobenzene	13.452	180	244059	9.502	ppbv		99

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

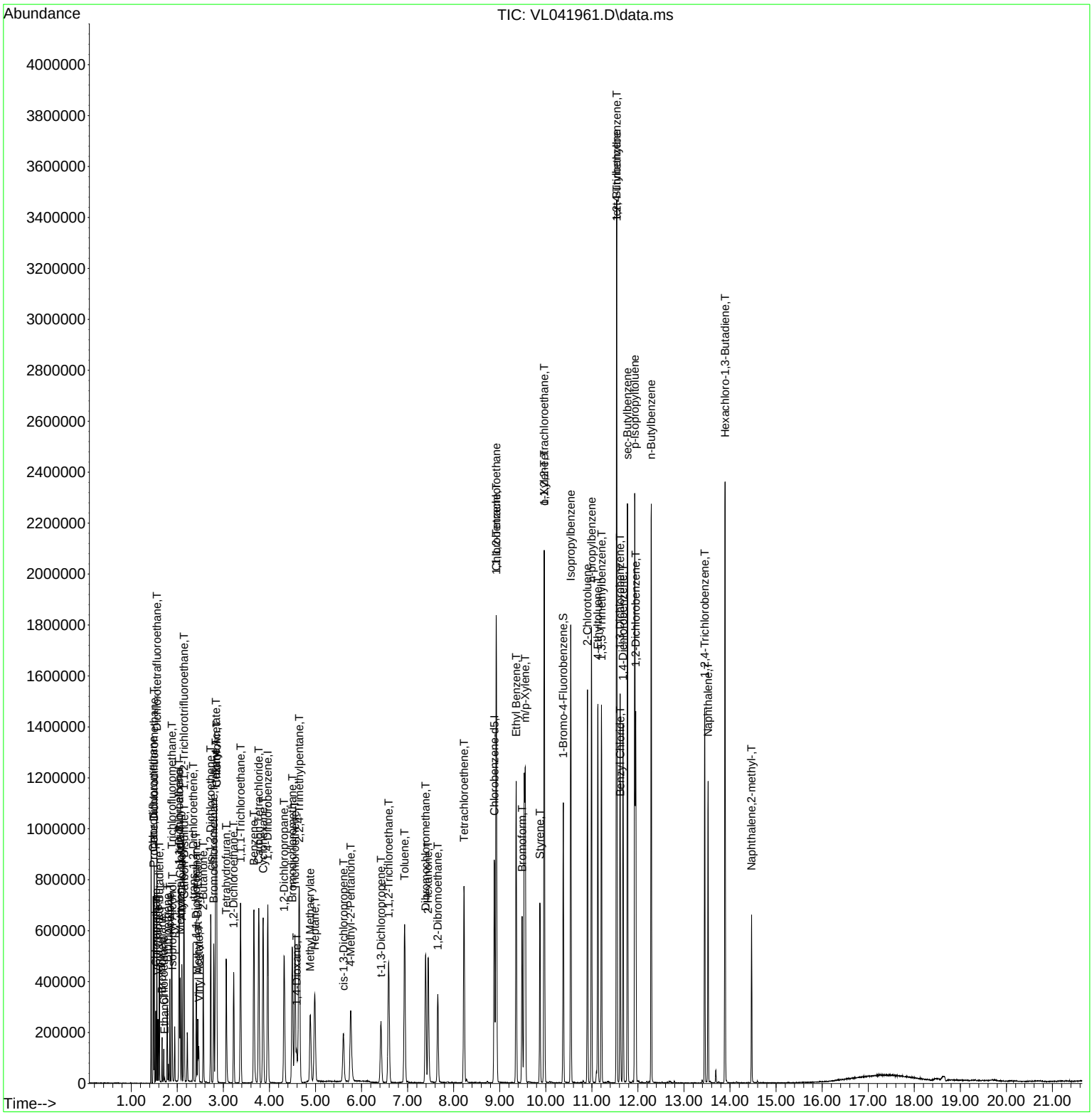
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041961.D
Acq On : 03 Feb 2025 12:57
Operator : SY/MD
Sample : VL0203ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 02:34:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



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

Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL041889.D	m/p-Xylene	SAM	1/15/2025 11:01:16 AM	MMDadoda	1/15/2025 12:57:14 PM	Peak Integrated by Software
VSTDICC002	VL041890.D	1,1,2-Trichloroethane	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICC002	VL041890.D	1,4-Dioxane	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICC002	VL041890.D	m/p-Xylene	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICC001	VL041891.D	1,1,2-Trichloroethane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC001	VL041891.D	1,1-Dichloroethene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC001	VL041891.D	1,4-Dioxane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC001	VL041891.D	4-Methyl-2-Pentanone	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC001	VL041891.D	Benzyl Chloride	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC001	VL041891.D	Bromodichloromethane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC001	VL041891.D	m/p-Xylene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC001	VL041891.D	Tetrahydrofuran	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC001	VL041891.D	Toluene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL041891.D	Trichloroethene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	1,2-Dichloropropane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	1,4-Dioxane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	4-Methyl-2-Pentanone	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Bromodichloromethane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	cis-1,3-Dichloropropene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Dibromochloromethane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Ethanol	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Hexane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	m/p-Xylene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Methyl Methacrylate	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	t-1,3-Dichloropropene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Tetrachloroethene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL041892.D	Vinyl Acetate	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	1,1,1-Trichloroethane	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	1,2-Dibromoethane	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	Carbon Tetrachloride	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	Tetrachloroethene	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	Trichloroethene	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.03	VL041894.D	Tetrachloroethene	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDICC0.03	VL041894.D	Trichloroethene	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDICC0.03	VL041894.D	Vinyl Chloride	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDICC015	VL041895.D	m/p-Xylene	SAM	1/15/2025 11:01:35 AM	MMDadoda	1/15/2025 12:57:56 PM	Peak Integrated by Software
VSTDICV010	VL041896.D	m/p-Xylene	SAM	1/15/2025 11:01:30 AM	MMDadoda	1/15/2025 12:58:01 PM	Peak Integrated by Software
VSTDCCC010	VL041915.D	m/p-Xylene	SAM	1/15/2025 11:02:26 AM	MMDadoda	1/15/2025 12:59:14 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL011425	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

Manual Integration Report

Sequence:	vl020325	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL041958.D	m/p-Xylene	SAM	2/4/2025 8:50:46 AM	MMDadoda	2/4/2025 3:44:15 PM	Peak Integrated by Software
VL0203ABS01	VL041961.D	m/p-Xylene	SAM	2/4/2025 8:50:51 AM	MMDadoda	2/4/2025 3:44:17 PM	Peak Integrated by Software
Q1256-01	VL041964.D	2-Hexanone	SAM	2/4/2025 8:52:34 AM	MMDadoda	2/4/2025 3:44:23 PM	Peak Integrated by Software
Q1256-01	VL041964.D	Ethanol	SAM	2/4/2025 8:52:34 AM	MMDadoda	2/4/2025 3:44:23 PM	Peak Integrated by Software
Q1256-01	VL041964.D	Ethyl Benzene	SAM	2/4/2025 8:52:34 AM	MMDadoda	2/4/2025 3:44:23 PM	Peak Integrated by Software
Q1256-01	VL041964.D	Heptane	SAM	2/4/2025 8:52:34 AM	MMDadoda	2/4/2025 3:44:23 PM	Peak Integrated by Software
Q1256-01	VL041964.D	m/p-Xylene	SAM	2/4/2025 8:52:34 AM	MMDadoda	2/4/2025 3:44:23 PM	Peak Integrated by Software
Q1222-02DUP	VL041968.D	m/p-Xylene	SAM	2/4/2025 8:52:40 AM	MMDadoda	2/4/2025 3:44:31 PM	Peak Integrated by Software
Q1222-02DUP	VL041968.D	Propene	SAM	2/4/2025 8:52:40 AM	MMDadoda	2/4/2025 3:44:31 PM	Peak Integrated by Software
Q1222-02DUP	VL041968.D	Tetrachloroethene	SAM	2/4/2025 8:52:40 AM	MMDadoda	2/4/2025 3:44:31 PM	Peak Integrated by Software
Q1222-02DUP	VL041968.D	Tetrahydrofuran	SAM	2/4/2025 8:52:40 AM	MMDadoda	2/4/2025 3:44:31 PM	Peak Integrated by Software
Q1256-02	VL041970.D	Carbon Tetrachloride	SAM	2/4/2025 8:52:45 AM	MMDadoda	2/4/2025 3:44:35 PM	Peak Integrated by Software
Q1256-02	VL041970.D	Heptane	SAM	2/4/2025 8:52:45 AM	MMDadoda	2/4/2025 3:44:35 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl020325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1256-02	VL041970.D	Propene	SAM	2/4/2025 8:52:45 AM	MMDadoda	2/4/2025 3:44:35 PM	Peak Integrated by Software
VSTDCCC010	VL041975.D	m/p-Xylene	SAM	2/4/2025 9:18:09 AM	MMDadoda	2/4/2025 3:44:44 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041887.D	14 Jan 2025 07:50	SY/MD	Ok
2	VSTDICC0.5	VL041888.D	14 Jan 2025 11:40	SY/MD	Not Ok
3	VSTDICCC010	VL041889.D	14 Jan 2025 12:55	SY/MD	Ok,M
4	VSTDICC002	VL041890.D	14 Jan 2025 13:28	SY/MD	Ok,M
5	VSTDICC001	VL041891.D	14 Jan 2025 13:59	SY/MD	Ok,M
6	VSTDICC0.5	VL041892.D	14 Jan 2025 14:30	SY/MD	Ok,M
7	VSTDICC0.1	VL041893.D	14 Jan 2025 15:01	SY/MD	Ok,M
8	VSTDICC0.03	VL041894.D	14 Jan 2025 15:32	SY/MD	Ok,M
9	VSTDICC015	VL041895.D	14 Jan 2025 16:05	SY/MD	Ok,M
10	VSTDICV010	VL041896.D	14 Jan 2025 17:33	SY/MD	Ok,M
11	VL0114ABL01	VL041897.D	14 Jan 2025 18:34	SY/MD	Ok
12	VL0114ABL02	VL041898.D	14 Jan 2025 19:05	SY/MD	Ok
13	VL0114ABS01	VL041899.D	14 Jan 2025 19:36	SY/MD	Ok,M
14	VIBLK	VL041900.D	14 Jan 2025 20:07	SY/MD	Ok
15	Q1073-04	VL041901.D	14 Jan 2025 20:40	SY/MD	Ok,M
16	Q1073-04DUP	VL041902.D	14 Jan 2025 21:14	SY/MD	Ok,M
17	Q1073-05	VL041903.D	14 Jan 2025 21:47	SY/MD	Ok,M
18	Q1073-06	VL041904.D	14 Jan 2025 22:21	SY/MD	Ok,M
19	Q1073-01	VL041905.D	14 Jan 2025 22:51	SY/MD	Ok,M
20	Q1073-02	VL041906.D	14 Jan 2025 23:22	SY/MD	Ok,M
21	Q1073-03	VL041907.D	14 Jan 2025 23:52	SY/MD	Ok,M

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VIBLK	VL041908.D	15 Jan 2025 00:22	SY/MD	Ok
23	MDL 0.4	VL041909.D	15 Jan 2025 00:52	SY/MD	Ok,M
24	MDL 0.4	VL041910.D	15 Jan 2025 01:23	SY/MD	Ok,M
25	MDL 0.1	VL041911.D	15 Jan 2025 01:53	SY/MD	Ok,M
26	MDL 0.1	VL041912.D	15 Jan 2025 02:23	SY/MD	Ok,M
27	MDL 0.03	VL041913.D	15 Jan 2025 02:53	SY/MD	Ok,M
28	MDL 0.03	VL041914.D	15 Jan 2025 03:23	SY/MD	Ok,M
29	VSTDCCC010	VL041915.D	15 Jan 2025 08:37	SY/MD	Not Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL020325

Review By	Semsettin Yesilyurt	Review On	2/4/2025 9:24:56 AM				
Supervise By	Mahesh Dadoda	Supervise On	2/4/2025 3:44:53 PM				
SubDirectory	VL020325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041957.D	03 Feb 2025 09:47	SY/MD	Ok
2	VSTDCCC010	VL041958.D	03 Feb 2025 10:48	SY/MD	Ok,M
3	VL0203ABL01	VL041959.D	03 Feb 2025 11:34	SY/MD	Ok
4	VL0203ABL02	VL041960.D	03 Feb 2025 12:05	SY/MD	Ok
5	VL0203ABS01	VL041961.D	03 Feb 2025 12:57	SY/MD	Ok,M
6	Q1222-01	VL041962.D	03 Feb 2025 13:57	SY/MD	Ok,M
7	Q1222-01DL	VL041963.D	03 Feb 2025 14:28	SY/MD	Not Ok
8	Q1256-01	VL041964.D	03 Feb 2025 14:59	SY/MD	Ok,M
9	Q1256-01DL	VL041965.D	03 Feb 2025 15:30	SY/MD	Not Ok
10	QC012825 CAN 10439	VL041966.D	03 Feb 2025 16:02	SY/MD	Ok
11	Q1222-02	VL041967.D	03 Feb 2025 16:35	SY/MD	Ok,M
12	Q1222-02DUP	VL041968.D	03 Feb 2025 17:08	SY/MD	Ok,M
13	Q1222-03	VL041969.D	03 Feb 2025 17:41	SY/MD	Ok,M
14	Q1256-02	VL041970.D	03 Feb 2025 18:15	SY/MD	Ok,M
15	Q1168-14 0.03	VL041971.D	03 Feb 2025 21:01	SY/MD	Not Ok
16	Q1168-13 0.03	VL041972.D	03 Feb 2025 21:32	SY/MD	Ok,M
17	Q1168-14 0.03	VL041973.D	03 Feb 2025 22:13	SY/MD	Ok,M
18	QC020325 CAN 10599	VL041974.D	04 Feb 2025 08:03	SY/MD	Ok
19	VSTDCCC010	VL041975.D	04 Feb 2025 08:34	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 # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041887.D	14 Jan 2025 07:50		SY/MD	Ok
2	VSTDICC0.5	VSTDICC0.5	VL041888.D	14 Jan 2025 11:40	not used	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL041889.D	14 Jan 2025 12:55		SY/MD	Ok,M
4	VSTDICC002	VSTDICC002	VL041890.D	14 Jan 2025 13:28		SY/MD	Ok,M
5	VSTDICC001	VSTDICC001	VL041891.D	14 Jan 2025 13:59		SY/MD	Ok,M
6	VSTDICC0.5	VSTDICC0.5	VL041892.D	14 Jan 2025 14:30		SY/MD	Ok,M
7	VSTDICC0.1	VSTDICC0.1	VL041893.D	14 Jan 2025 15:01		SY/MD	Ok,M
8	VSTDICC0.03	VSTDICC0.03	VL041894.D	14 Jan 2025 15:32		SY/MD	Ok,M
9	VSTDICC015	VSTDICC015	VL041895.D	14 Jan 2025 16:05		SY/MD	Ok,M
10	VSTDICV010	ICVVL011425	VL041896.D	14 Jan 2025 17:33		SY/MD	Ok,M
11	VL0114ABL01	VL0114ABL01	VL041897.D	14 Jan 2025 18:34		SY/MD	Ok
12	VL0114ABL02	VL0114ABL02	VL041898.D	14 Jan 2025 19:05		SY/MD	Ok
13	VL0114ABS01	VL0114ABS01	VL041899.D	14 Jan 2025 19:36		SY/MD	Ok,M
14	VIBLK	VIBLK	VL041900.D	14 Jan 2025 20:07		SY/MD	Ok
15	Q1073-04	IA1	VL041901.D	14 Jan 2025 20:40		SY/MD	Ok,M
16	Q1073-04DUP	IA1DUP	VL041902.D	14 Jan 2025 21:14		SY/MD	Ok,M
17	Q1073-05	IA2	VL041903.D	14 Jan 2025 21:47		SY/MD	Ok,M
18	Q1073-06	IA3	VL041904.D	14 Jan 2025 22:21		SY/MD	Ok,M

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 # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1073-01	SV1	VL041905.D	14 Jan 2025 22:51		SY/MD	Ok,M
20	Q1073-02	SV2	VL041906.D	14 Jan 2025 23:22		SY/MD	Ok,M
21	Q1073-03	SV3	VL041907.D	14 Jan 2025 23:52		SY/MD	Ok,M
22	VIBLK	VIBLK	VL041908.D	15 Jan 2025 00:22		SY/MD	Ok
23	MDL 0.4	MDL 0.4	VL041909.D	15 Jan 2025 00:52		SY/MD	Ok,M
24	MDL 0.4	MDL 0.4	VL041910.D	15 Jan 2025 01:23		SY/MD	Ok,M
25	MDL 0.1	MDL 0.1	VL041911.D	15 Jan 2025 01:53		SY/MD	Ok,M
26	MDL 0.1	MDL 0.1	VL041912.D	15 Jan 2025 02:23		SY/MD	Ok,M
27	MDL 0.03	MDL 0.03	VL041913.D	15 Jan 2025 02:53		SY/MD	Ok,M
28	MDL 0.03	MDL 0.03	VL041914.D	15 Jan 2025 03:23		SY/MD	Ok,M
29	VSTDCCC010	VSTDCCC010EC	VL041915.D	15 Jan 2025 08:37	out of tune	SY/MD	Not Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL020325

Review By	Semsettin Yesilyurt	Review On	2/4/2025 9:24:56 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/4/2025 3:44:53 PM		
SubDirectory	VL020325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041957.D	03 Feb 2025 09:47		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL041958.D	03 Feb 2025 10:48		SY/MD	Ok,M
3	VL0203ABL01	VL0203ABL01	VL041959.D	03 Feb 2025 11:34		SY/MD	Ok
4	VL0203ABL02	VL0203ABL02	VL041960.D	03 Feb 2025 12:05		SY/MD	Ok
5	VL0203ABS01	VL0203ABS01	VL041961.D	03 Feb 2025 12:57		SY/MD	Ok,M
6	Q1222-01	SV1	VL041962.D	03 Feb 2025 13:57		SY/MD	Ok,M
7	Q1222-01DL	SV1DL	VL041963.D	03 Feb 2025 14:28	Not Required	SY/MD	Not Ok
8	Q1256-01	SV1	VL041964.D	03 Feb 2025 14:59		SY/MD	Ok,M
9	Q1256-01DL	SV1DL	VL041965.D	03 Feb 2025 15:30	Not Required	SY/MD	Not Ok
10	QC012825 CAN 10439	QC012825 CAN 10439	VL041966.D	03 Feb 2025 16:02		SY/MD	Ok
11	Q1222-02	IA1	VL041967.D	03 Feb 2025 16:35		SY/MD	Ok,M
12	Q1222-02DUP	IA1DUP	VL041968.D	03 Feb 2025 17:08		SY/MD	Ok,M
13	Q1222-03	OA1	VL041969.D	03 Feb 2025 17:41		SY/MD	Ok,M
14	Q1256-02	IA1	VL041970.D	03 Feb 2025 18:15		SY/MD	Ok,M
15	Q1168-14 0.03	LOQ-AIR-02-QT1-2025	VL041971.D	03 Feb 2025 21:01	rerun	SY/MD	Not Ok
16	Q1168-13 0.03	LOD-MDL-AIR-01-QT1-	VL041972.D	03 Feb 2025 21:32		SY/MD	Ok,M
17	Q1168-14 0.03	LOQ-AIR-02-QT1-2025	VL041973.D	03 Feb 2025 22:13		SY/MD	Ok,M
18	QC020325 CAN 10599	QC020325 CAN 10599	VL041974.D	04 Feb 2025 08:03		SY/MD	Ok

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 # VL020325

Review By	Semsettin Yesilyurt	Review On	2/4/2025 9:24:56 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/4/2025 3:44:53 PM		
SubDirectory	VL020325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC010	VSTDCCC010EC	VL041975.D	04 Feb 2025 08:34		SY/MD	Ok,M

M : Manual Integration

CHEMTECH

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

CHEMTECH Project No. : _____

Client Contact Information	Bottle Order ID : **B2501045**	Courier : F GALDUN	1 of 2 ~~coc~~s
Client ID : **GFEL01** Project ID : **21-36 Utopia Parkway, Flushing NY**		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: 2175 CLARENDON BROOKLYN 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	1/30/25	10:53	12:53	OVER 30	6.5	68	68	-30	-3.9	10528	10592	6 L	50	VL041615.D	1		1

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: 0, 1

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 01/29/25	Canisters Received by:	Date/Time: 1-31-25 1242
Samples Relinquished by:	Date/Time: 1/31/25	Received by:	Date/Time:
Relinquished by:	Date/Time: 1-31-25 1313	Received by:	Date/Time:

B2501045 - 6

CHEMTECH

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

CHEMTECH Project No. : _____

Client Contact Information	Bottle Order ID : **B2501045**	Courier : FGALDUN	2 of 2 COCs
Client ID : **GFEL01** Project ID : ~~21-36 Utopia Parkway, Flushing NY~~		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: 2173 CLARENDON BROOKLYN, 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
IA1	1/30/25	10:48	12:48	OVER 30	5	68	68	-30	4.5	10550	10198	6 L	50	VL041615.D	/	/	

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYLCHLORIDE

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 1/28/25	Canisters Received by:	Date/Time: 1-31-25 1242	B2501045 - 1
Samples Relinquished by:	Date/Time: 1/31/25	Received by:	Date/Time:	
Relinquished by:	Date/Time: 1-31-25 1313	Received by:	Date/Time:	

DEP-077
Rev. 3/04

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
~~GORGE~~	Title: Sample Custodian
Field Sample Seal No.: Q1256	Date Broken: 1/31/2025 Military Time Seal Broken: 12:42:00
Case No.: 2173 Clarendon Brooklyn,	Analytical Parameter/Fraction: VOCMS Group3

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1256-01	SV1		
Q1256-02	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
1/31	1430	Signature	Signature	
		Printed Name GORGE N.	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	
		Signature	Signature	
		Printed Name	Printed Name	

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

CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: _____ Supervisor Signature: _____

METHOD: TO-15 Pressure Gauge ID: 0571064

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
01/15/24	Q1090-01	10599	11.4	-6.7				SV
	Q1090-02	10053	11.4	-6.7				
	Q1090-03	10598	11.6	-6.3				
	Q1090-04	10297	11.6	-6.3				
↓	Q1090-05	10154	12.8	-3.9				SV
01/20/25	Q1138-01	10607	11.8	-5.9				SV
↓	Q1138-02	10323	13.4	-2.7				SV
1/29/25	Q1222-01	10332	13.5	-2.4				
↓	Q1222-02	10281	13.4	-2.7				
↓	Q1222-03	10595	12.6	-4.3				↓
1/31/25	Q1256-01	10592	12.8	-3.9				
↓	Q1256-02	10198	12.5	-4.5				

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

Process Report

Order ID : Q1256

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
01/31/2025	B2501045	Q1256-01	-4.5	10592	6 L	10528		C2409003	**VL041615.D** Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D
01/31/2025	B2501045	Q1256-02	-4.5	10198	6 L	10550		C2409003	**VL041615.D** Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D

CHEMTECH

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

Client Sample ID #: SV1 GFE CLARENDON

Client Name:

Project Name:

Date: 1/30 Time:

Analysis:

Comments: TO-15

CHEMTECH'S SAMPLE ID:

Date Received: Expiration Date: Date of Dis

Storage Location: VOA Lab

Sample: Q1256-01

Cust #: SV1

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-89

Client Sample ID #: IA1 GFE CLARENDON

Client Name:

Project Name:

Date: 1/30 Time:

Analysis:

Comments: TO-15

CHEMTECH'S SAMPLE ID:

Date Received: Expiration Date: Date of

Storage Location: VOA Lab

Sample: Q1256-02

Cust #: IA1

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