SHIPPING DOCUMENTS

CHEMTECH

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

CHEMTECH Project No. : Q1342

Client Contact Information	Bottle Order ID : **B2501048**	Courier : F GALDUN	1 of 2 COCs
Client ID : **GFEL01** Project ID : ~~25-36 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**	Batch Certified	
	Site Details: 315 W. 106TH ST. NY, NY		
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : ~~5 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	2/6/25	9:12	11:12	OVER 30	4.5	68	68	-30	-5.1	10511	10315	6 L	50	VL041782.D	✓	✓			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low) PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 2/3/25	Canisters Received by:		Date/Time: 2-7-25 11:21	**B2501048 - 3**
Samples Relinquished by:	Date/Time: 2/7/25	Received by:		Date/Time:	
Relinquished by:	Date/Time:	Received by:		Date/Time:	

CHEMTECH

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CHEMTECH Project No. : Q1342

Client Contact Information	Bottle Order ID : **B2501048**	Courier : F GALDUN	2 of 2 COCs
Client ID : **GFEL01** Project ID : ~~2135 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**	Individual Certified	
City : **Lake Hiawatha**	Site Details: 315 W. 106TH ST. NY, NY		
State : **NJ**	Analysis Turnaround Time		
Zip Code : **07034**	Standard : **10 business days** **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): _____ **Days**	EDD Type : EDF	

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
OA1	2/6/25	9:56	11:56	OVER 30	6.5	✓	✓	-30	-6.7	10648	10311	6 L	50	VL041691.D	1	1	

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	30			
Stop	33			

GC/MS Analyst Signature (TO-15): SAT

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: SAT	Date/Time: 2/13/25	Canisters Received by: AP	Date/Time: 2-7-25 1121	
Samples Relinquished by: FGALDUN	Date/Time: 2/7/25	Received by:	Date/Time:	B2501048 - 2
Relinquished by:	Date/Time:	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

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

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

Laboratory: Chemtech
Location: 284 Sheffield Street, Mountainside,NJ 7092
~~NAME~~:
Title: Sample Custodian
Field Sample Seal No.: Q1342
Date Broken: 2/7/2025
Military Time Seal Broken: 11:21:00
Case No.: 315 W. 106th St NY, NY
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1342-01	IA1		
Q1342-02	OA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
2-7-25	13:15	Signature	Signature	
		Printed Name Cassereza Rene	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*

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:	Q1342	**OrderDate:**	2/7/2025 1:01:28 PM
Client:	GFE LLC	**Project:**	315 W. 106th St NY, NY
Contact:	Frank Galdun	**Location:**	N41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1342-01	**IA1**	**Air**			**02/06/25**			**02/07/25**
			TO-15	TO-15			02/11/25	
Q1342-02	**OA1**	**Air**			**02/06/25**			**02/07/25**
			TO-15	TO-15			02/11/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1342

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**IA1**							
Q1342-01	IA1	Air	Dichlorodifluoromethane	1.78	J	1.04	2.47	ug/m3
Q1342-01	IA1	Air	Chloromethane	1.03		0.21	1.03	ug/m3
Q1342-01	IA1	Air	Trichlorofluoromethane	1.07	J	0.90	2.81	ug/m3
Q1342-01	IA1	Air	Heptane	1.15	J	0.45	2.05	ug/m3
Q1342-01	IA1	Air	Acetone	8.31		0.57	1.19	ug/m3
Q1342-01	IA1	Air	Methylene Chloride	0.83	J	0.66	1.74	ug/m3
Q1342-01	IA1	Air	Cyclohexane	1.31	J	0.76	1.72	ug/m3
Q1342-01	IA1	Air	2-Butanone	0.56	J	0.35	1.47	ug/m3
Q1342-01	IA1	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1342-01	IA1	Air	Chloroform	0.78	J	0.39	2.44	ug/m3
Q1342-01	IA1	Air	Benzene	1.09	J	0.29	1.60	ug/m3
Q1342-01	IA1	Air	Toluene	1.92		0.41	1.88	ug/m3
Q1342-01	IA1	Air	Tetrachloroethene	0.20		0.14	0.20	ug/m3
Q1342-01	IA1	Air	m/p-Xylene	1.43	J	0.91	4.34	ug/m3
Q1342-01	IA1	Air	o-Xylene	0.65	J	0.52	2.17	ug/m3
Q1342-01	IA1	Air	Hexane	1.16	J	0.39	1.76	ug/m3
			Total Voc :	23.7				
			Total Concentration:	23.7				
Client ID:	**OA1**							
Q1342-02	OA1	Air	Dichlorodifluoromethane	1.93	J	1.04	2.47	ug/m3
Q1342-02	OA1	Air	Chloromethane	1.09		0.21	1.03	ug/m3
Q1342-02	OA1	Air	Trichlorofluoromethane	1.07	J	0.90	2.81	ug/m3
Q1342-02	OA1	Air	Acetone	7.60		0.57	1.19	ug/m3
Q1342-02	OA1	Air	Methylene Chloride	1.18	J	0.66	1.74	ug/m3
Q1342-02	OA1	Air	2-Butanone	0.47	J	0.35	1.47	ug/m3
Q1342-02	OA1	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1342-02	OA1	Air	Benzene	0.67	J	0.29	1.60	ug/m3
Q1342-02	OA1	Air	Toluene	0.83	J	0.41	1.88	ug/m3
Q1342-02	OA1	Air	Hexane	0.42	J	0.39	1.76	ug/m3
			Total Voc :	15.7				
			Total Concentration:	15.7				

QC SUMMARY

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Surrogate Summary

SDG No.: Q1342

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1342-01	IA1	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
Q1342-01DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
Q1342-02	OA1	1-Bromo-4-Fluorobenzene	10	9.83	98	65	135
Q1342-02DUP	OA1DUP	1-Bromo-4-Fluorobenzene	10	9.73	97	65	135
VL0211ABL01	VL0211ABL01	1-Bromo-4-Fluorobenzene	10	9.85	99	65	135
VL0211ABS01	VL0211ABS01	1-Bromo-4-Fluorobenzene	10	10.0	100	65	135

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1342

Client: GFE LLC

Analytical Method: SWTO-15 **Datafile :** VL041997.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0211ABS01	Dichlorodifluoromethane	10	8.40	ppbv	84			70	130	
	Chloromethane	10	9.60	ppbv	96			70	130	
	Vinyl Chloride	10	9.10	ppbv	91			70	130	
	Bromomethane	10	9.00	ppbv	90			70	130	
	Chloroethane	10	9.70	ppbv	97			70	130	
	Tetrahydrofuran	10	10.9	ppbv	109			70	130	
	Trichlorofluoromethane	10	8.70	ppbv	87			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.10	ppbv	91			70	130	
	Dichlorotetrafluoethane	10	9.00	ppbv	90			70	130	
	tert-Butyl Alcohol	10	8.10	ppbv	81			70	130	
	Heptane	10	10.2	ppbv	102			70	130	
	1,1-Dichloroethene	10	8.30	ppbv	83			70	130	
	Acetone	10	8.80	ppbv	88			70	130	
	Carbon disulfide	10	9.50	ppbv	95			70	130	
	Methyl tert-butyl Ether	10	8.40	ppbv	84			70	130	
	Methylene Chloride	10	7.80	ppbv	78			70	130	
	trans-1,2-Dichloroethene	10	8.80	ppbv	88			70	130	
	1,1-Dichloroethane	10	9.40	ppbv	94			70	130	
	Cyclohexane	10	9.40	ppbv	94			70	130	
	2-Butanone	10	10.6	ppbv	106			70	130	
	Carbon Tetrachloride	10	10.6	ppbv	106			70	130	
	cis-1,2-Dichloroethene	10	9.10	ppbv	91			70	130	
	Chloroform	10	9.50	ppbv	95			70	130	
	1,1,1-Trichloroethane	10	9.50	ppbv	95			70	130	
	2,2,4-Trimethylpentane	10	10.6	ppbv	106			70	130	
	Benzene	10	10.2	ppbv	102			70	130	
	1,2-Dichloroethane	10	9.90	ppbv	99			70	130	
	Trichloroethene	10	10.0	ppbv	100			70	130	
	1,2-Dichloropropane	10	10.2	ppbv	102			70	130	
	Bromodichloromethane	10	10.2	ppbv	102			70	130	
	4-Methyl-2-Pentanone	10	10.3	ppbv	103			70	130	
	Toluene	10	10.2	ppbv	102			70	130	
	t-1,3-Dichloropropene	10	9.60	ppbv	96			70	130	
	cis-1,3-Dichloropropene	10	10.1	ppbv	101			70	130	
	1,1,2-Trichloroethane	10	10.5	ppbv	105			70	130	
	Dibromochloromethane	10	10.6	ppbv	106			70	130	
	1,2-Dibromoethane	10	10.3	ppbv	103			70	130	
	Tetrachloroethene	10	9.40	ppbv	94			70	130	
	Chlorobenzene	10	10.1	ppbv	101			70	130	
	Ethyl Benzene	10	10.1	ppbv	101			70	130	
	m/p-Xylene	20	20.9	ppbv	104			70	130	
	o-Xylene	10	10.6	ppbv	106			70	130	
	Styrene	10	10.3	ppbv	103			70	130	
	Bromoform	10	10.7	ppbv	107			70	130	
	1,1,2,2-Tetrachloroethane	10	10.8	ppbv	108			70	130	
	2-Chlorotoluene	10	10.1	ppbv	101			70	130	
	1,3,5-Trimethylbenzene	10	10.1	ppbv	101			70	130	
	1,2,4-Trimethylbenzene	10	10.2	ppbv	102			70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1342

Client: GFE LLC

Analytical Method: SWTO-15 **Datafile :** VL041997.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0211ABS01	1,3-Dichlorobenzene	10	10.0	ppbv	100			70	130	
	1,4-Dichlorobenzene	10	10.0	ppbv	100			70	130	
	1,2-Dichlorobenzene	10	10.0	ppbv	100			70	130	
	1,2,4-Trichlorobenzene	10	8.10	ppbv	81			70	130	
	Hexachloro-1,3-butadiene	10	8.50	ppbv	85			70	130	
	Naphthalene	10	8.90	ppbv	89			70	130	
	1,3-Butadiene	10	9.60	ppbv	96			70	130	
	4-Ethyltoluene	10	10.2	ppbv	102			70	130	
	Hexane	10	9.90	ppbv	99			70	130	
	Allyl Chloride	10	9.30	ppbv	93			70	130	
	1,4-Dioxane	10	10.4	ppbv	104			70	130	
	Methyl methacrylate	10	9.90	ppbv	99			70	130	

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Duplicate Sample Summary

Lab Sample Id :	Q1342-01DUP		Q1342-01	
Client Id :	IA1DUP		IA1	
DF :	1		1	
Datafile :	VL041999.D		VL041998.D	
Anal Date & Time :	02/11/2025	12:13	02/11/2025	11:39

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	0.18	0.19	5.4
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	3.8	3.5	8.2
Allyl Chloride	0	0	0
Benzene	0.33	0.34	3
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.06	0.07	15.4

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Duplicate Sample Summary

Lab Sample Id :	Q1342-01DUP		Q1342-01	
Client Id :	IA1DUP		IA1	
DF :	1		1	
Datafile :	VL041999.D		VL041998.D	
Anal Date & Time :	02/11/2025	12:13	02/11/2025	11:39

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0.17	0.16	6.1
Chloromethane	0.54	0.5	7.7
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0.32	0.38	17.1
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.36	0.36	0
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.1	0	200 *
Heptane	0.29	0.28	3.5
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0.33	0.33	0
m/p-Xylene	0.29	0.33	12.9
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.3	0.24	22.2 *
Naphthalene	0	0	0
o-Xylene	0.13	0.15	14.3
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.03	0.03	0
Tetrahydrofuran	0	0	0
Toluene	0.49	0.51	4
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.19	0.19	0
Vinyl Chloride	0	0	0
1,1,1-Trichloroethane	0	0	0

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Duplicate Sample Summary

Lab Sample Id :	Q1342-02DUP		Q1342-02	
Client Id :	OA1DUP		OA1	
DF :	1		1	
Datafile :	VL042001.D		VL042000.D	
Anal Date & Time :	02/11/2025	13:21	02/11/2025	12:46

Parameter	Result	Result	RPD
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	0.15	0.16	6.5
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	3.3	3.2	3.1
Allyl Chloride	0	0	0
Benzene	0.22	0.21	4.7
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.07	0.07	0
Chlorobenzene	0	0	0
Chloroethane	0	0	0

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

Lab Sample Id :	Q1342-02DUP		Q1342-02	
Client Id :	OA1DUP		OA1	
DF :	1		1	
Datafile :	VL042001.D		VL042000.D	
Anal Date & Time :	02/11/2025	13:21	02/11/2025	12:46

Parameter	Result	Result	RPD
Chloroform	0	0	0
Chloromethane	0.51	0.53	3.8
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.36	0.39	8
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0.1	0.12	18.2
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.37	0.34	8.5
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	0	0	0
Toluene	0.21	0.22	4.7
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.2	0.19	5.1
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.: Q1342 SAS No.: Q1342 SDG NO.: Q1342

Lab File ID: VL041999.D Lab Sample ID: Q1342-01DUP

Date Analyzed: 02/11/2025 Time Analyzed: 12:13

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	Q1342-01DUP	VL041999.D	02/11/2025
OA1DUP	Q1342-02DUP	VL042001.D	02/11/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0211ABL01

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1342 SAS No.: Q1342 SDG NO.: Q1342

Lab File ID: VL041996.D Lab Sample ID: VL0211ABL01

Date Analyzed: 02/11/2025 Time Analyzed: 10:06

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
VL0211ABS01	VL0211ABS01	VL041997.D	02/11/2025
IA1	Q1342-01	VL041998.D	02/11/2025
OA1	Q1342-02	VL042000.D	02/11/2025

COMMENTS:

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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.: Q1342 SAS No.: Q1342 SDG NO.: Q1342

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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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1342 SAS No.: Q1342 SDG NO.: Q1342

Lab File ID: VL041994.D BFB Injection Date: 02/11/2025

Instrument ID: MSVOA_L BFB Injection Time: 08:38

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.1
75	30.0 - 66.0% of mass 95	55.3
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	0.8 (1.4) 1
174	50.0 - 120.0% of mass 95	58.4
175	4.0 - 9.0% of mass 174	4.7 (8) 1
176	93.0 - 101.0% of mass 174	56 (96) 1
177	5.0 - 9.0% of mass 176	3.4 (6.1) 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	VL041995.D	02/11/2025	09:21
VL0211ABL01	VL0211ABL01	VL041996.D	02/11/2025	10:06
VL0211ABS01	VL0211ABS01	VL041997.D	02/11/2025	10:50
IA1	Q1342-01	VL041998.D	02/11/2025	11:39
IA1DUP	Q1342-01DUP	VL041999.D	02/11/2025	12:13
OA1	Q1342-02	VL042000.D	02/11/2025	12:46
OA1DUP	Q1342-02DUP	VL042001.D	02/11/2025	13:21

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1342 SAS No.: Q1342 SDG NO.: Q1342

Lab File ID: VL041995.D Date Analyzed: 02/11/2025

Instrument ID: MSVOA_L Time Analyzed: 09:21

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	165067	2.78	461899	3.95	409502	8.87
UPPER LIMIT	231094	3.11	646659	4.28	573303	9.20
LOWER LIMIT	99040.2	2.45	277139	3.62	245701	8.54
EPA SAMPLE NO.						
IA1	163540	2.78	454250	3.95	398767	8.87
IA1DUP	160589	2.78	441083	3.95	384736	8.87
OA1	163409	2.78	436244	3.95	374213	8.88
OA1DUP	160486	2.78	430354	3.96	367569	8.88
VL0211ABL01	167703	2.78	459653	3.95	395237	8.87
VL0211ABS01	161308	2.78	446315	3.95	395917	8.87

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

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Report of Analysis

Client:	GFE LLC	Date Collected:	02/06/25
Project:	315 W. 106th St NY, NY	Date Received:	02/07/25
Client Sample ID:	IA1	SDG No.:	Q1342
Lab Sample ID:	Q1342-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041998.D	1		02/11/25 11:39	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.36	1.78	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.50	1.03		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.19	1.07	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.28	1.15	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	3.50	8.31		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.24	0.83	J	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.38	1.31	J	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.19	0.56	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.16	0.78	J	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.34	1.09	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.51	1.92		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

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Report of Analysis

Client:	GFE LLC	Date Collected:	02/06/25
Project:	315 W. 106th St NY, NY	Date Received:	02/07/25
Client Sample ID:	IA1	SDG No.:	Q1342
Lab Sample ID:	Q1342-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041998.D	1		02/11/25 11:39	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.33	1.43	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.15	0.65	J	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.33	1.16	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	164000		2.78			
540-36-3	1,4-Difluorobenzene	454000		3.949			
3114-55-4	Chlorobenzene-d5	399000		8.872			

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Report of Analysis

Client:	GFE LLC	Date Collected:	02/06/25
Project:	315 W. 106th St NY, NY	Date Received:	02/07/25
Client Sample ID:	IA1	SDG No.:	Q1342
Lab Sample ID:	Q1342-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041998.D	1		02/11/25 11:39	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL021125\
Data File : VL041998.D
Acq On : 11 Feb 2025 11:39
Operator : SY/MD
Sample : Q1342-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Feb 11 22:18:33 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	2.780	49	163540	10.000	ppbv		-0.02
33) 1,4-Difluorobenzene	3.949	114	454250	10.000	ppbv		-0.03
55) Chlorobenzene-d5	8.872	117	398767	10.000	ppbv		-0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.367	95	323329	10.294	ppbv		-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	8116	0.364	ppbv		93
4) Chloromethane	1.531	50	4224	0.504	ppbv	#	89
9) Propene	1.483	41	6238	0.649	ppbv		96
10) Heptane	4.968	43	7115	0.277	ppbv		96
11) Trichlorofluoromethane	1.874	101	4423	0.191	ppbv	#	79
13) Ethanol	1.719	45	84552	120.078	ppbv		90
15) Acetone	1.832	43	69626	3.545	ppbv		98
19) Isopropyl Alcohol	1.884	45	30975	2.660	ppbv	#	75
20) Methylene Chloride	2.059	84	1849	0.238	ppbv	#	92
26) Hexane	2.819	57	6857	0.327	ppbv	#	51
29) Chloroform	2.842	83	5393	0.163	ppbv		94
30) Cyclohexane	3.852	84	6942m	0.382	ppbv		
34) 2-Butanone	2.560	43	5549	0.192	ppbv	#	88
35) Carbon Tetrachloride	3.755	117	2075m	0.073	ppbv		
36) Benzene	3.648	78	14133	0.339	ppbv		96
52) Tetrachloroethene	8.218	164	470m	0.033	ppbv		
53) Toluene	6.920	91	23101	0.509	ppbv		97
58) Ethyl Benzene	9.348	91	6500	0.104	ppbv	#	85
59) m/p-Xylene	9.522	91	16482m	0.330	ppbv		
60) o-Xylene	9.956	91	7656m	0.154	ppbv		

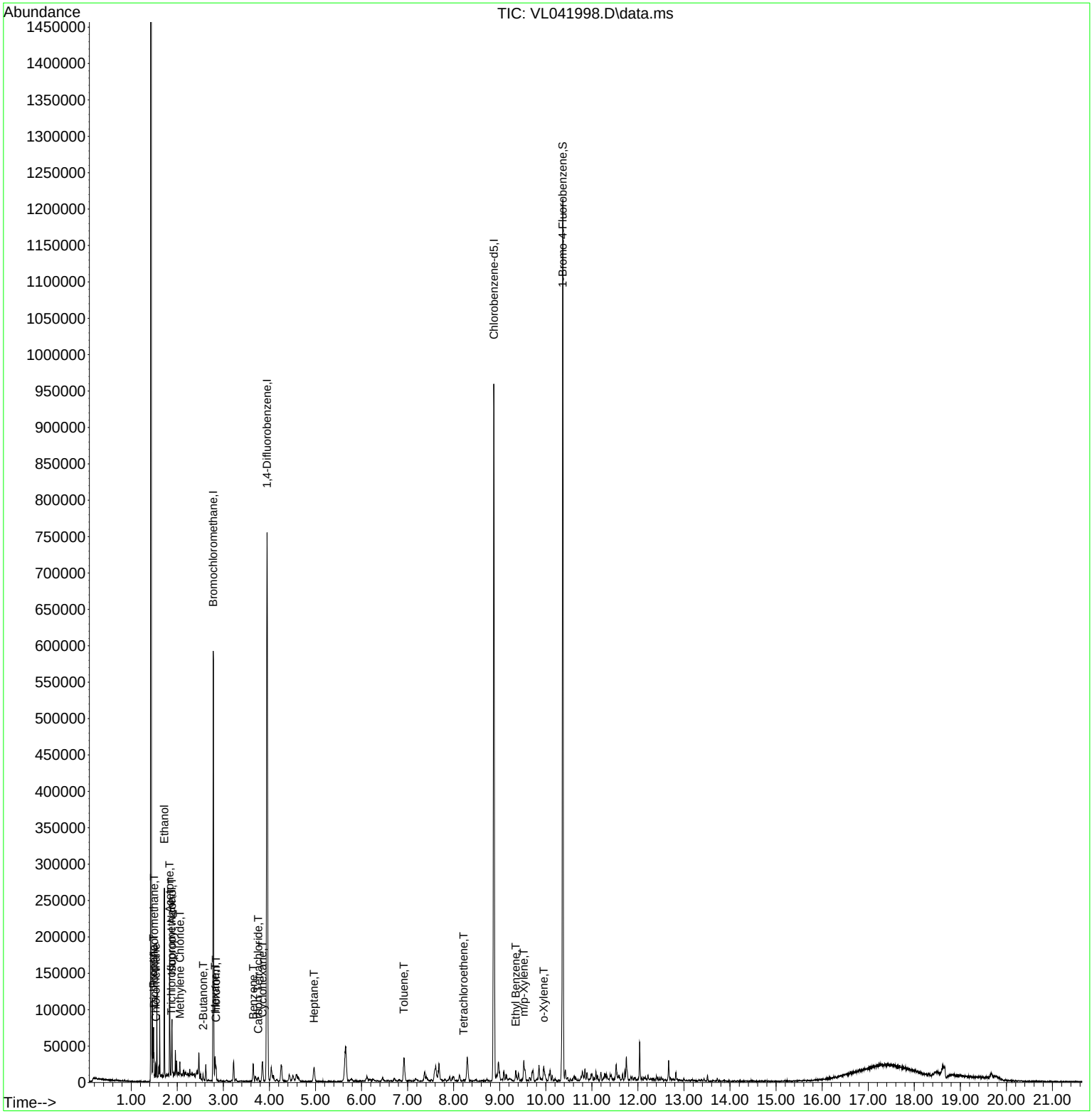
(#) = qualifier out of range (m) = manual integration (+) = signals summed

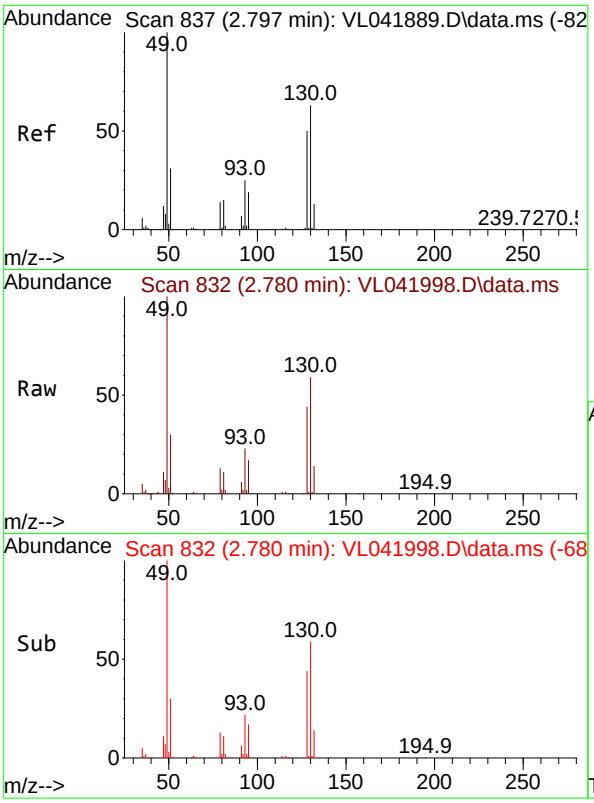
Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041998.D
Acq On : 11 Feb 2025 11:39
Operator : SY/MD
Sample : Q1342-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Feb 11 22:18:33 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



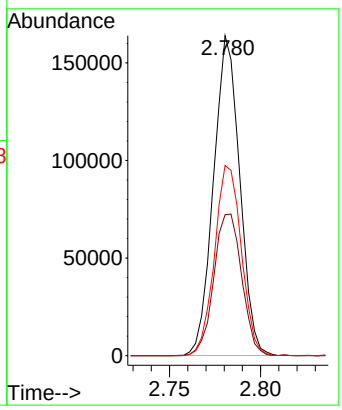


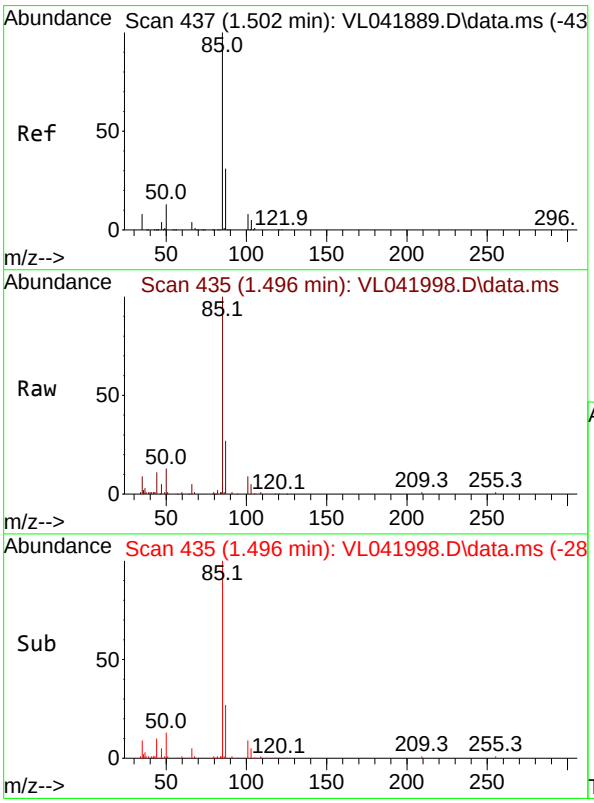
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 8
Delta R.T. -0.017 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 163540

Ion	Ratio	Lower	Upper
49	100		
128	47.2	24.3	73.0
130	61.0	31.1	93.2

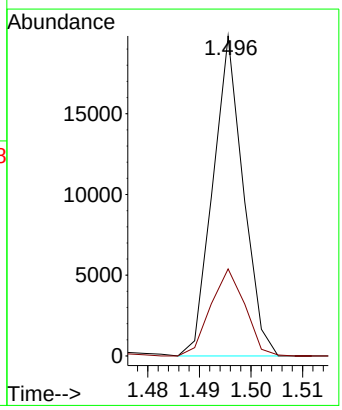


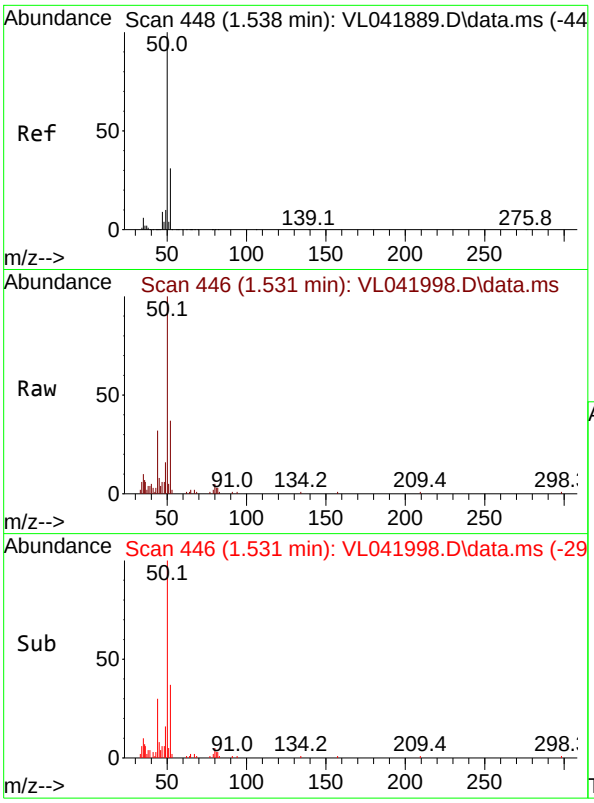


#2
Dichlorodifluoromethane
Concen: 0.364 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion: 85 Resp: 8116

Ion	Ratio	Lower	Upper
85	100		
87	27.2	24.9	37.3



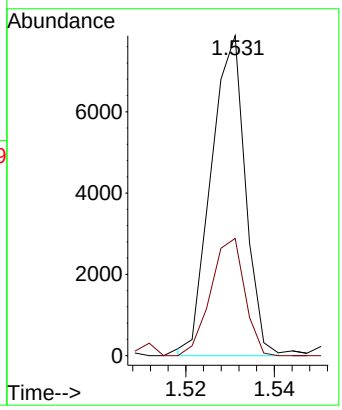


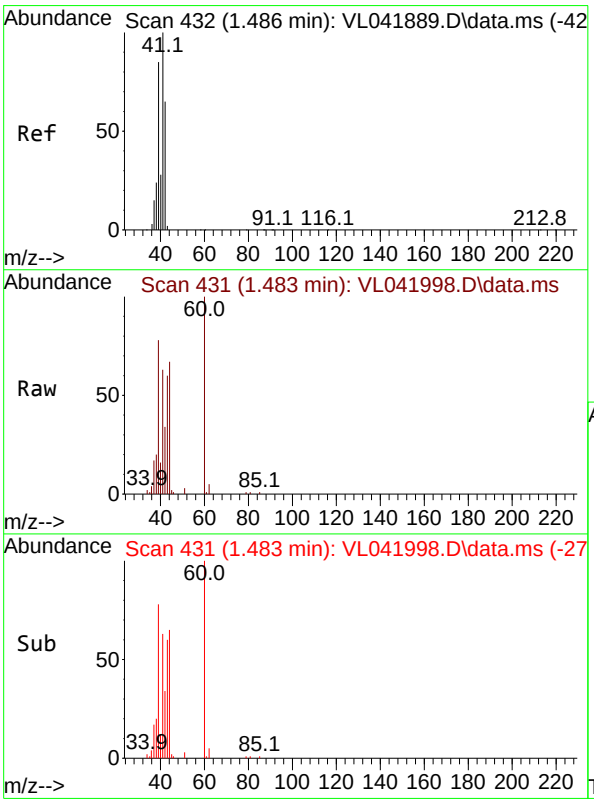
#4
Chloromethane
Concen: 0.504 ppbv
RT: 1.531 min Scan# 44
Delta R.T. -0.006 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 50 Resp: 4224

Ion	Ratio	Lower	Upper
50	100		
52	37.0	24.6	36.8#

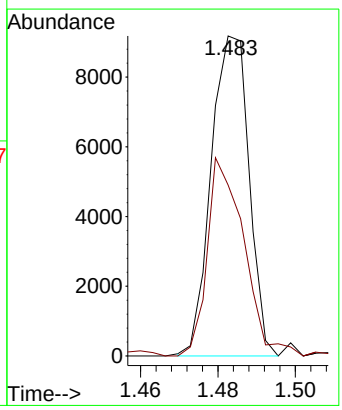


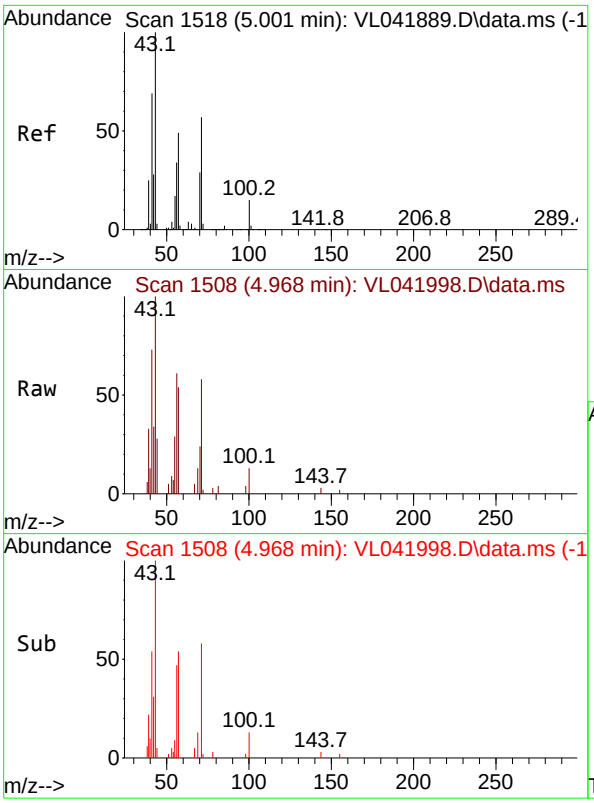


#9
Propene
Concen: 0.649 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.003 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion: 41 Resp: 6238

Ion	Ratio	Lower	Upper
41	100		
42	62.2	52.0	78.0



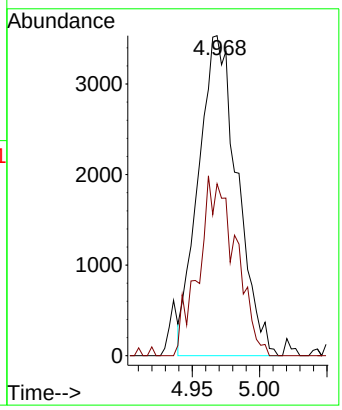


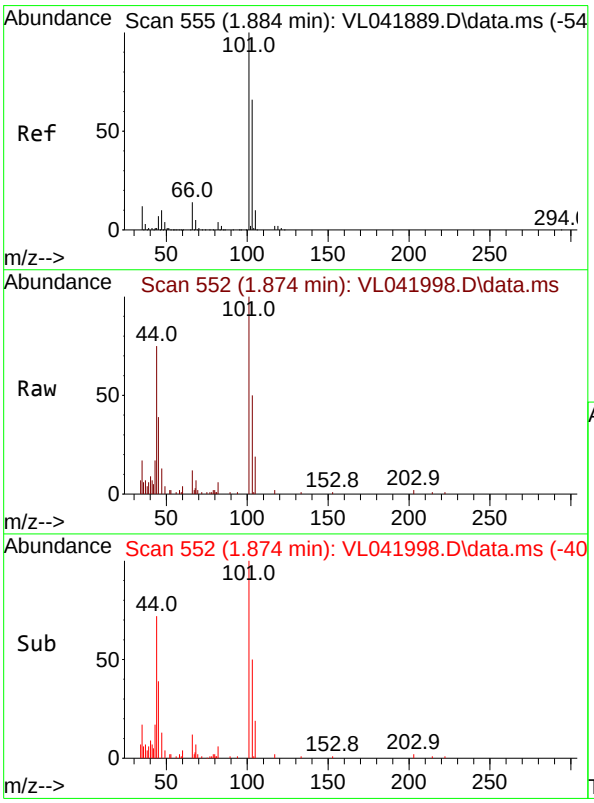
#10
Heptane
Concen: 0.277 ppbv
RT: 4.968 min Scan# 1
Delta R.T. -0.032 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 7115

Ion	Ratio	Lower	Upper
43	100		
57	54.1	41.0	61.4

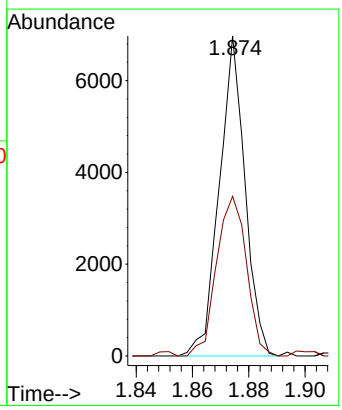


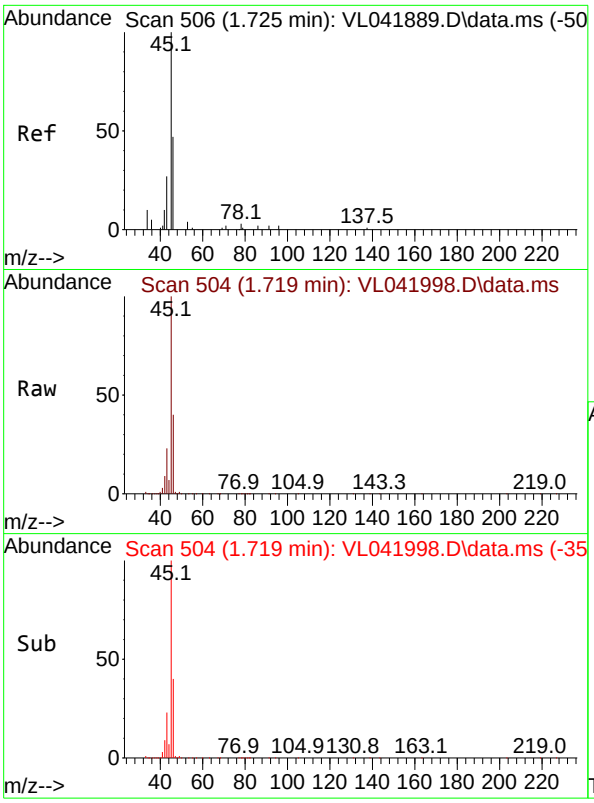


#11
Trichlorofluoromethane
Concen: 0.191 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.010 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion:101 Resp: 4423

Ion	Ratio	Lower	Upper
101	100		
103	49.9	53.1	79.7#



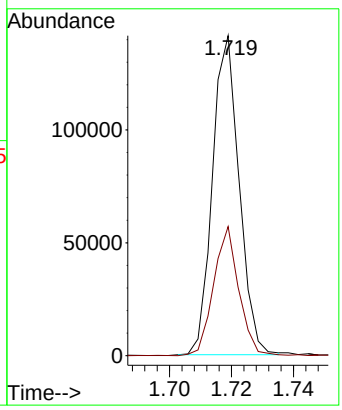


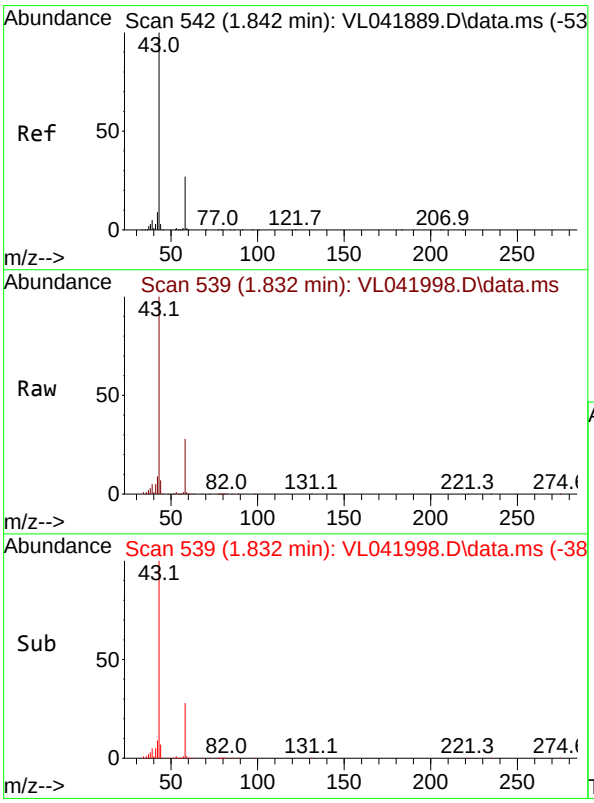
#13
Ethanol
Concen: 120.078 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.006 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 84552

Ion	Ratio	Lower	Upper
45	100		
46	38.6	18.1	72.5

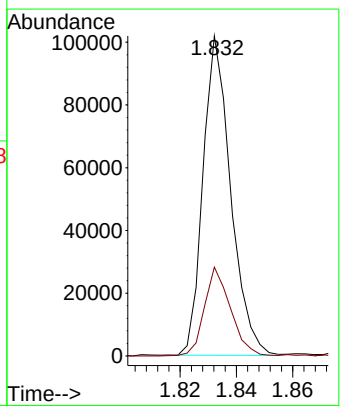


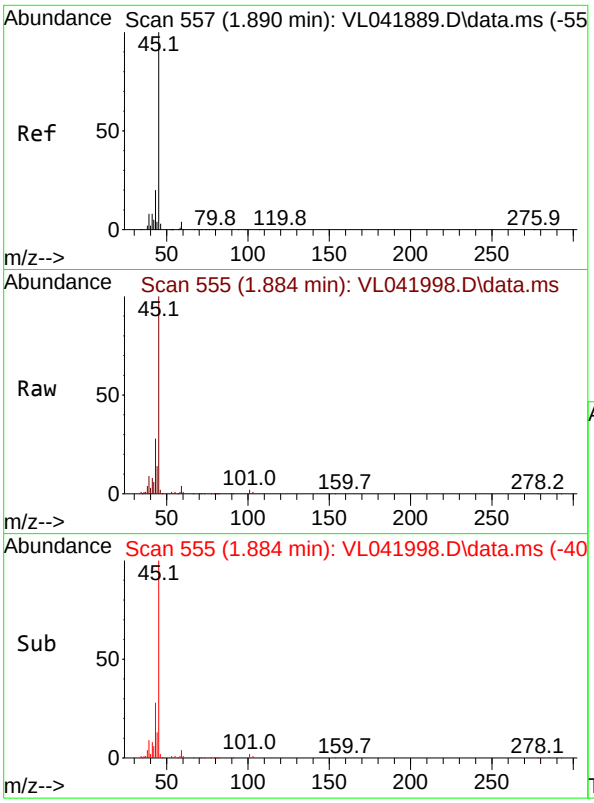


#15
Acetone
Concen: 3.545 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.010 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion: 43 Resp: 69626

Ion	Ratio	Lower	Upper
43	100		
58	26.5	21.9	32.9



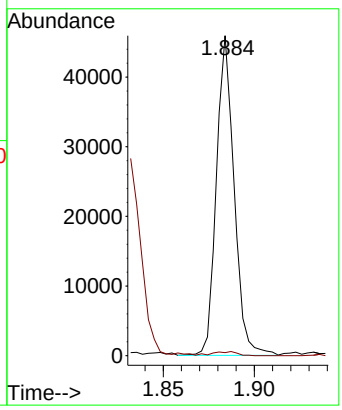


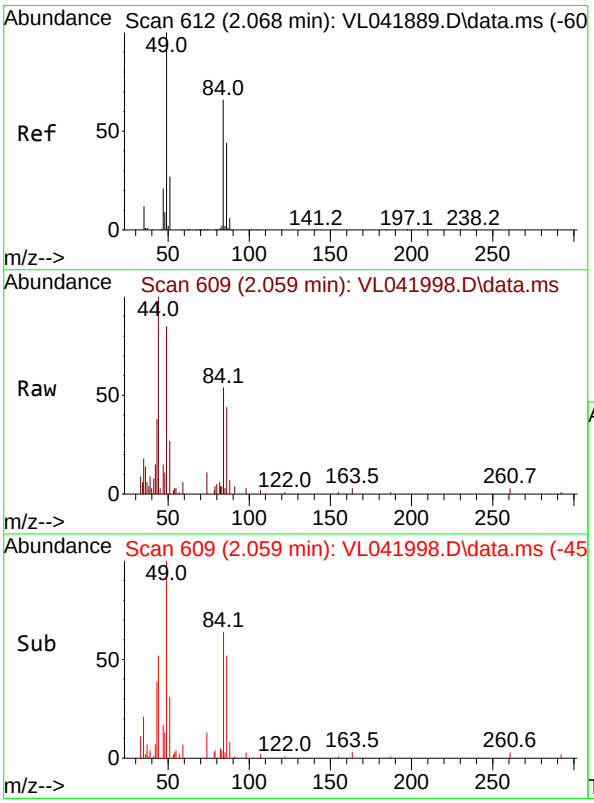
#19
Isopropyl Alcohol
Concen: 2.660 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.006 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 30975

Ion	Ratio	Lower	Upper
45	100		
58	59.7	35.0	52.6#

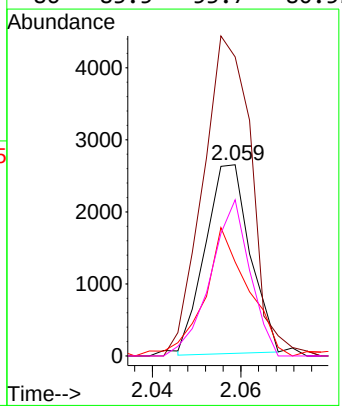


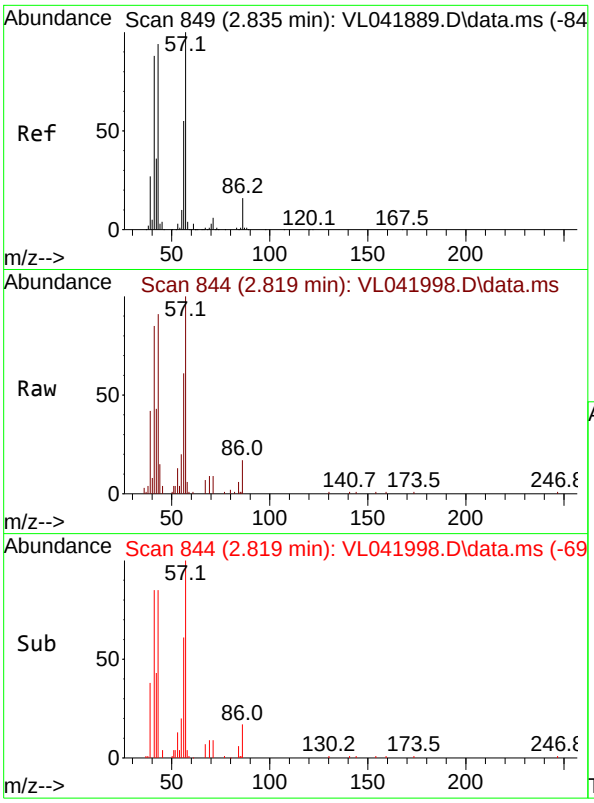


#20
Methylene Chloride
Concen: 0.238 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion: 84 Resp: 1849

Ion	Ratio	Lower	Upper
84	100		
49	148.9	123.1	184.7
51	45.5	35.8	53.8
86	83.5	53.7	80.5#



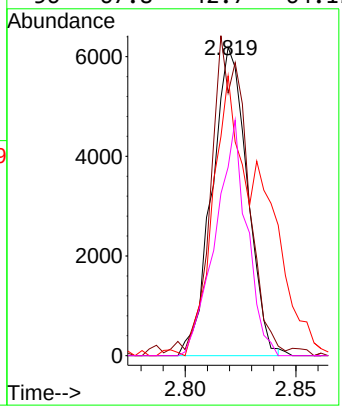


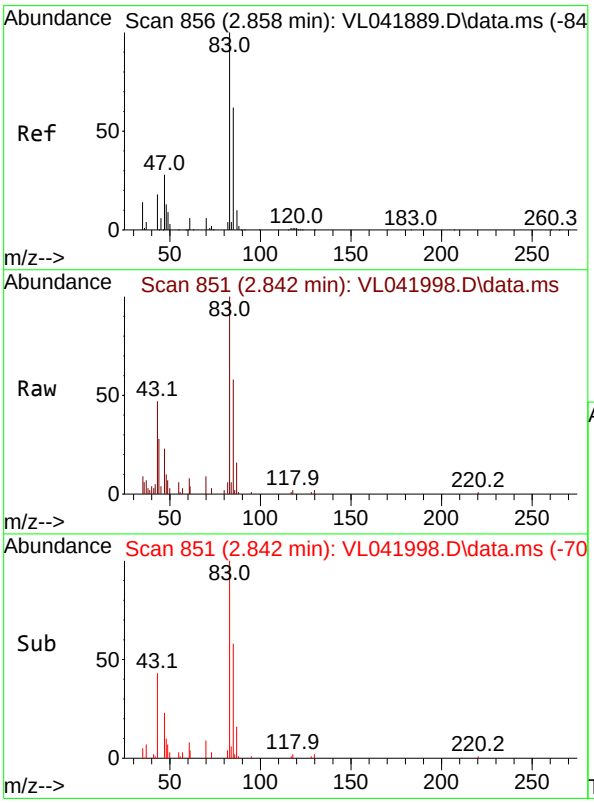
#26
Hexane
Concen: 0.327 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.016 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 57 Resp: 6857

Ion	Ratio	Lower	Upper
57	100		
41	108.5	73.8	110.8
43	131.5	197.3	295.9#
56	67.8	42.7	64.1#

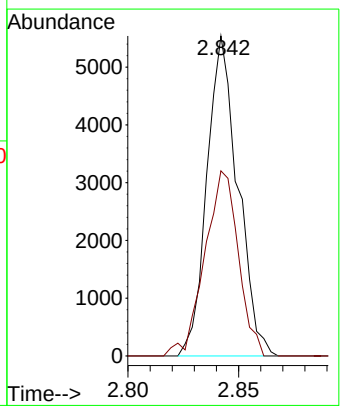


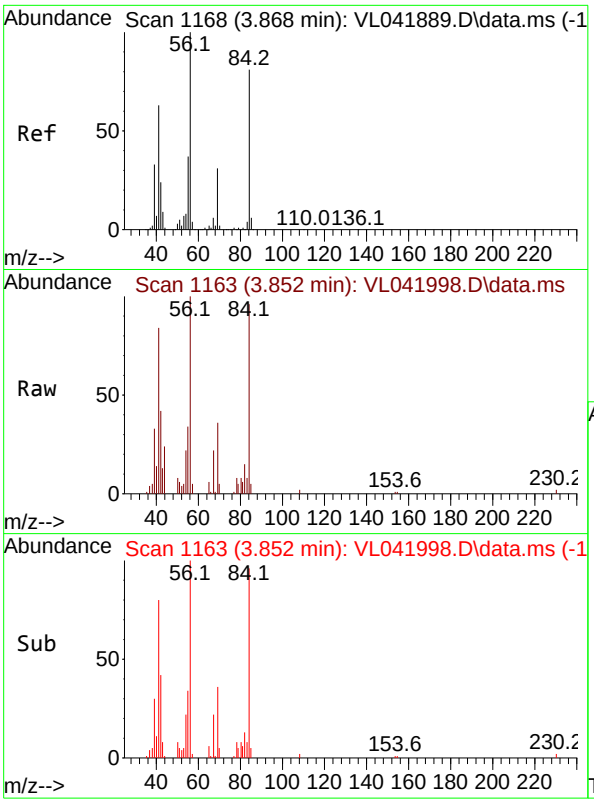


#29
Chloroform
Concen: 0.163 ppbv
RT: 2.842 min Scan# 851
Delta R.T. -0.016 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion: 83 Resp: 5393

Ion	Ratio	Lower	Upper
83	100		
85	57.9	50.1	75.1



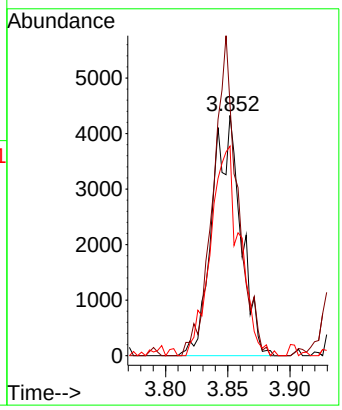


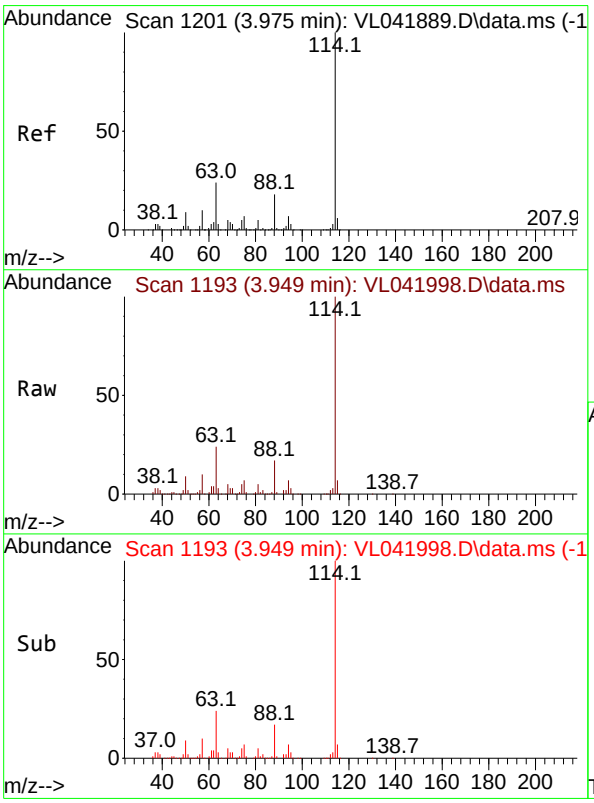
#30
Cyclohexane
Concen: 0.382 ppbv m
RT: 3.852 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 84 Resp: 6942

Ion	Ratio	Lower	Upper
84	100		
56	0.0	99.3	148.9#
41	0.0	64.3	96.5#

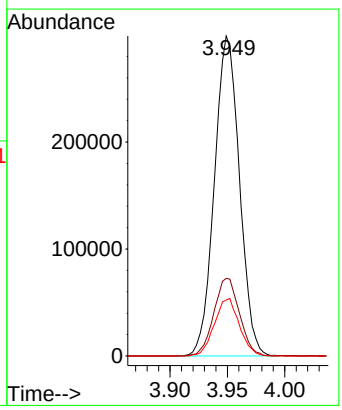


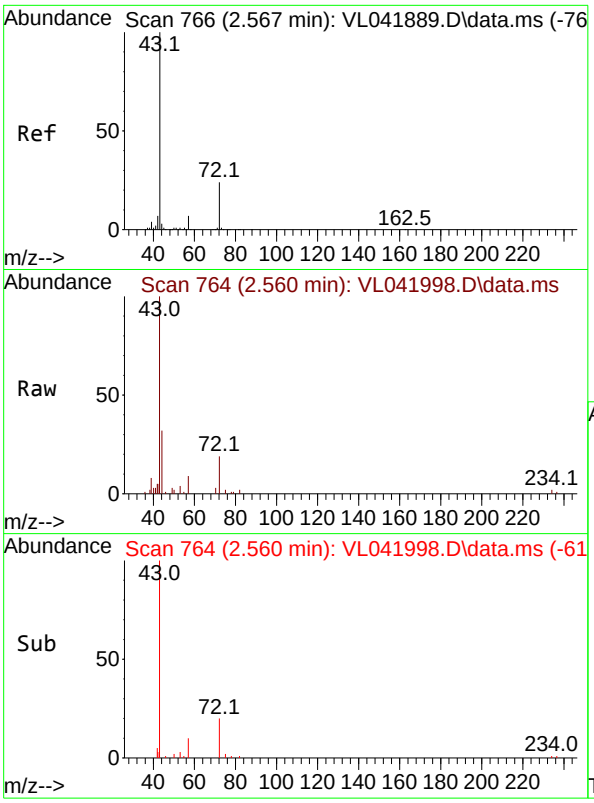


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.026 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion:114 Resp: 454250

Ion	Ratio	Lower	Upper
114	100		
63	24.8	19.8	29.6
88	17.9	14.4	21.6



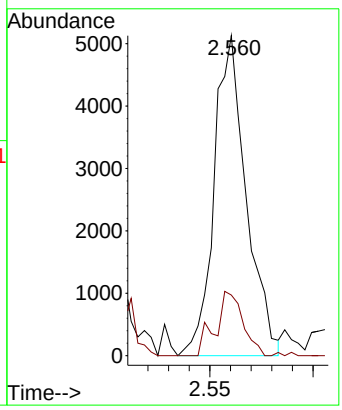


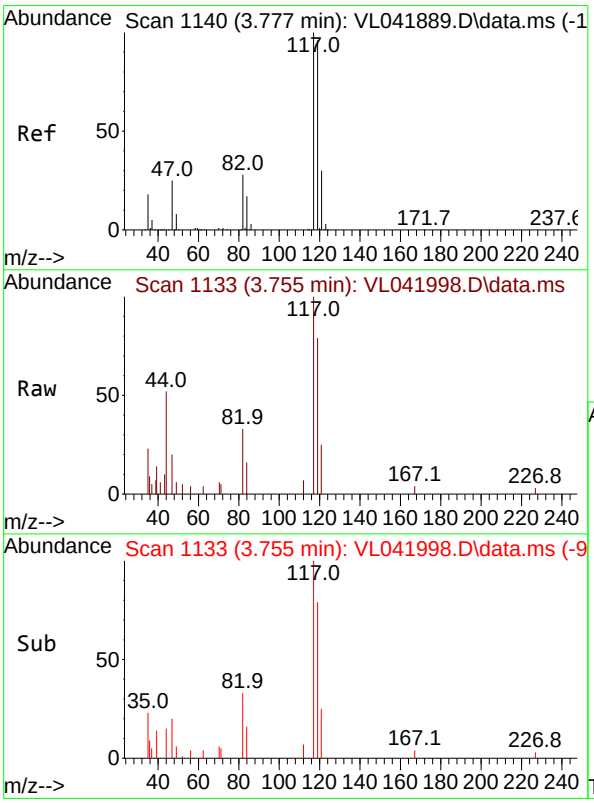
#34
2-Butanone
Concen: 0.192 ppbv
RT: 2.560 min Scan# 7
Delta R.T. -0.006 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 5549

Ion	Ratio	Lower	Upper
43	100		
72	17.2	18.6	28.0#

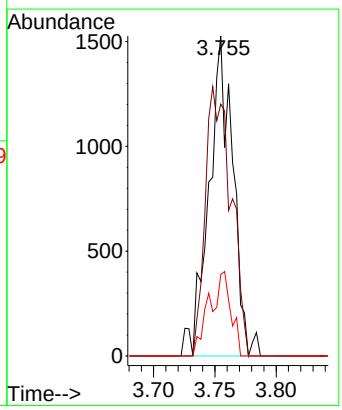


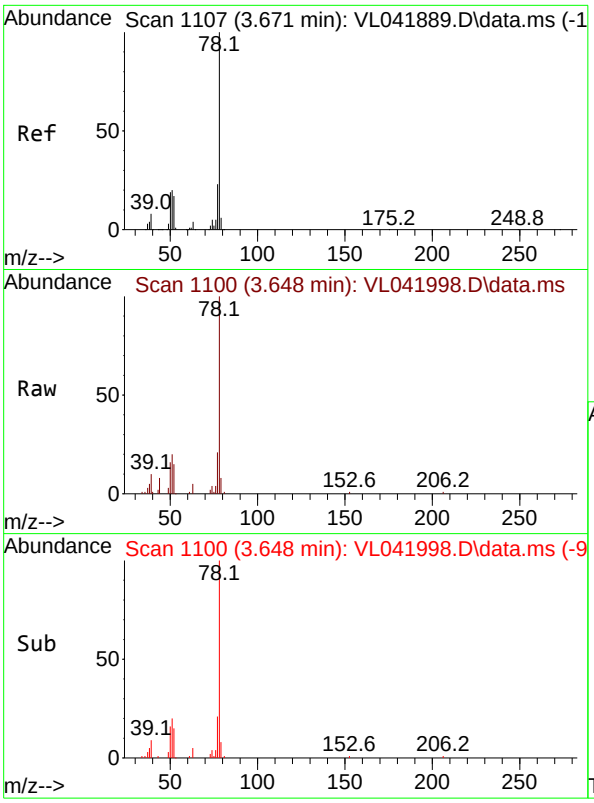


#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.023 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion:117 Resp: 2075

Ion	Ratio	Lower	Upper
117	100		
119	78.7	76.9	115.3
121	25.4	23.8	35.6



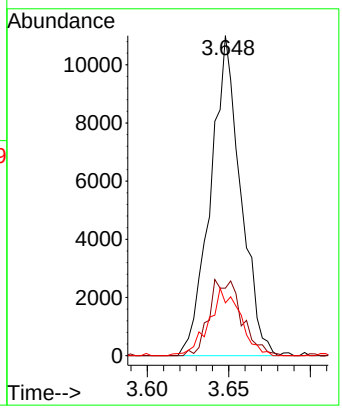


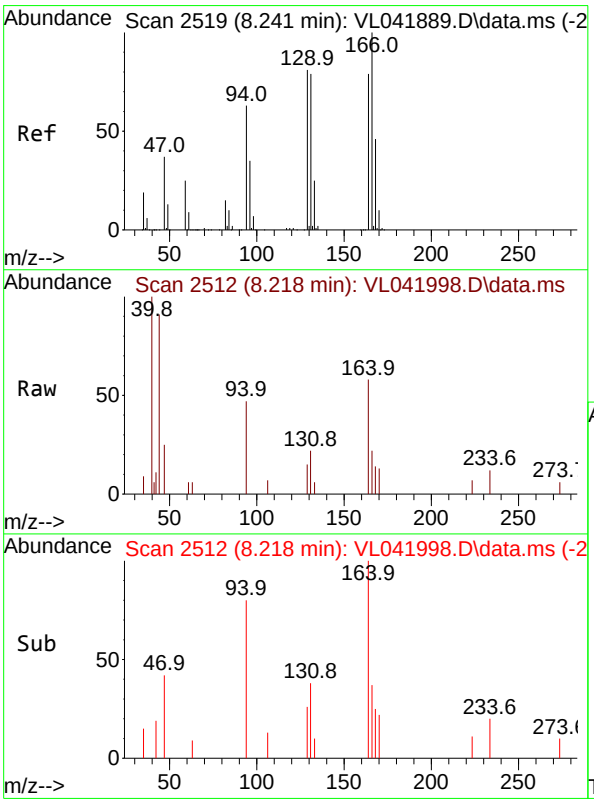
#36
Benzene
Concen: 0.339 ppbv
RT: 3.648 min Scan# 1
Delta R.T. -0.023 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 78 Resp: 14133

Ion	Ratio	Lower	Upper
78	100		
77	21.1	18.1	27.1
50	16.5	15.2	22.8

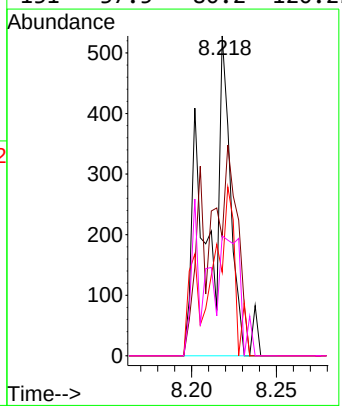


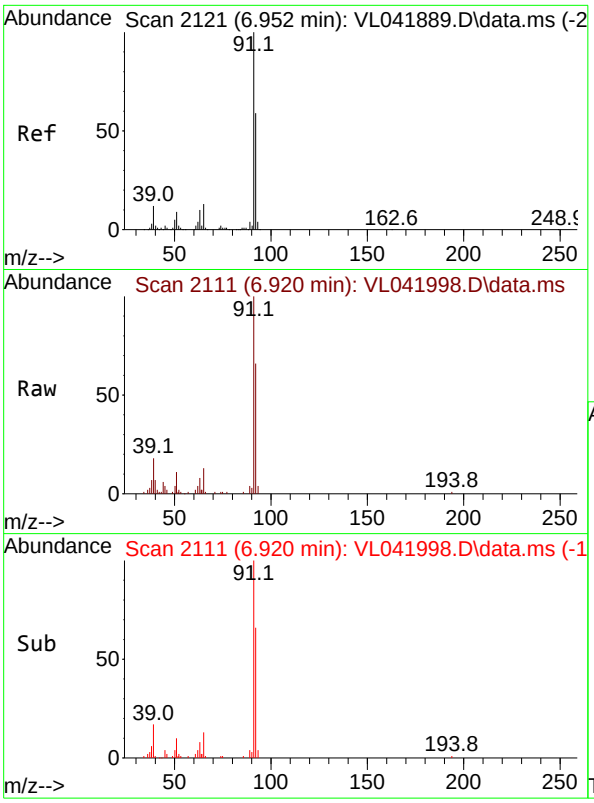


#52
Tetrachloroethene
Concen: 0.033 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. -0.023 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion:164 Resp: 470

Ion	Ratio	Lower	Upper
164	100		
166	37.1	100.8	151.2#
129	26.1	82.0	123.0#
131	37.5	80.2	120.2#



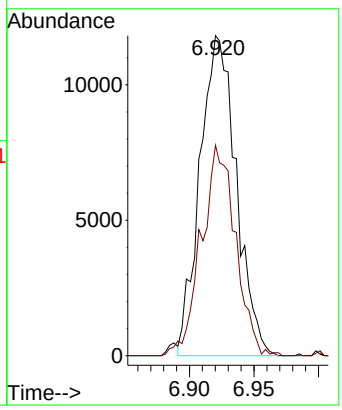


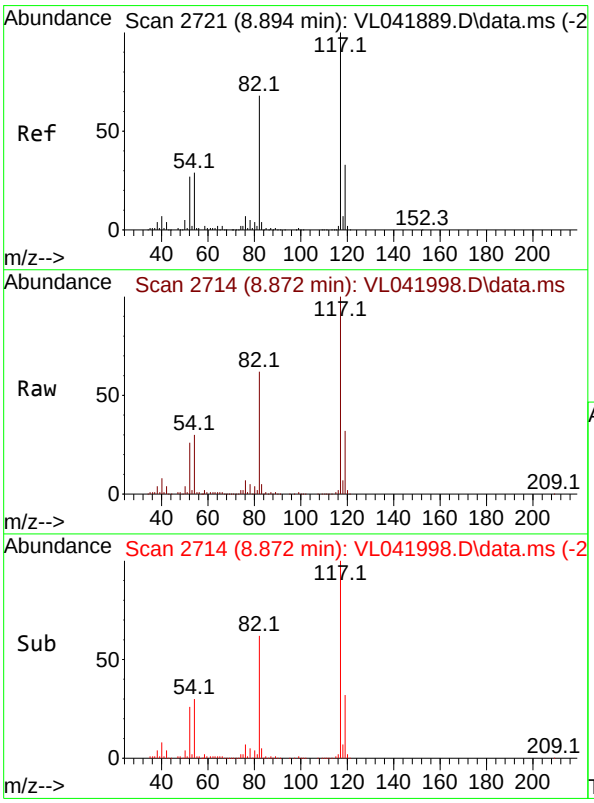
#53
Toluene
Concen: 0.509 ppbv
RT: 6.920 min Scan# 21
Delta R.T. -0.032 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 23101

Ion	Ratio	Lower	Upper
91	100		
92	61.7	47.4	71.0

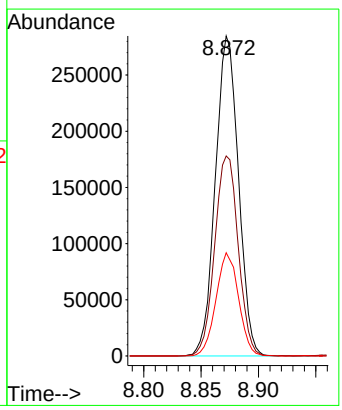


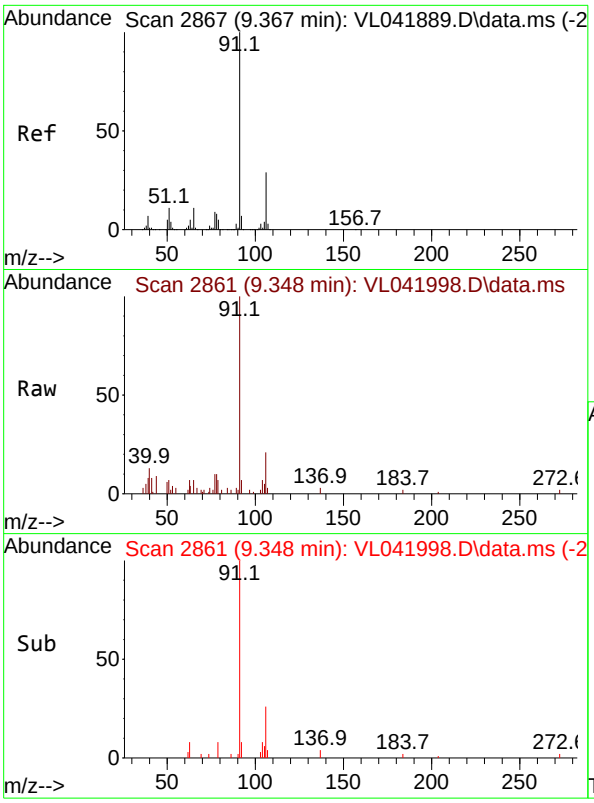


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.023 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion:117 Resp: 398767

Ion	Ratio	Lower	Upper
117	100		
82	63.7	54.2	81.4
119	31.6	25.0	37.6



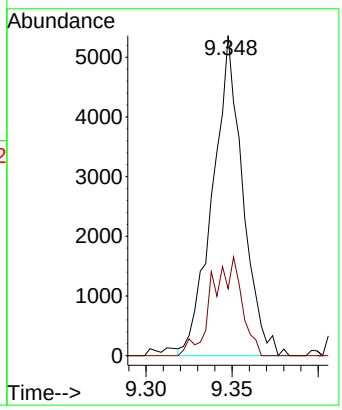


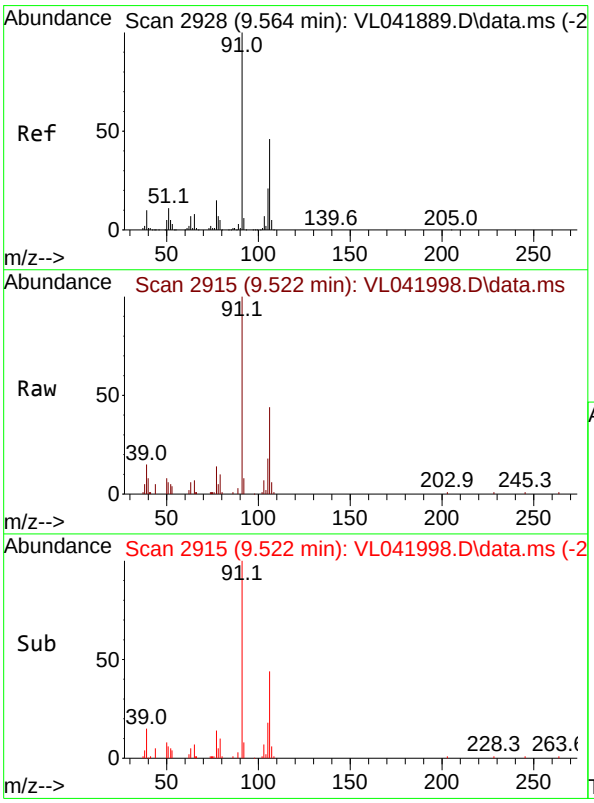
#58
Ethyl Benzene
Concen: 0.104 ppbv
RT: 9.348 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 6500

Ion	Ratio	Lower	Upper
91	100		
106	21.0	23.1	34.7#

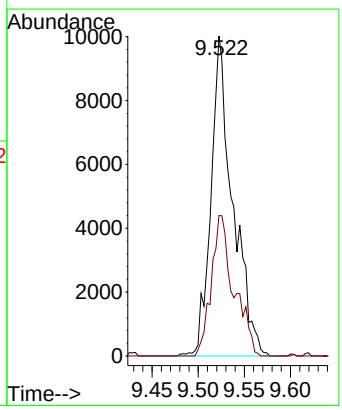


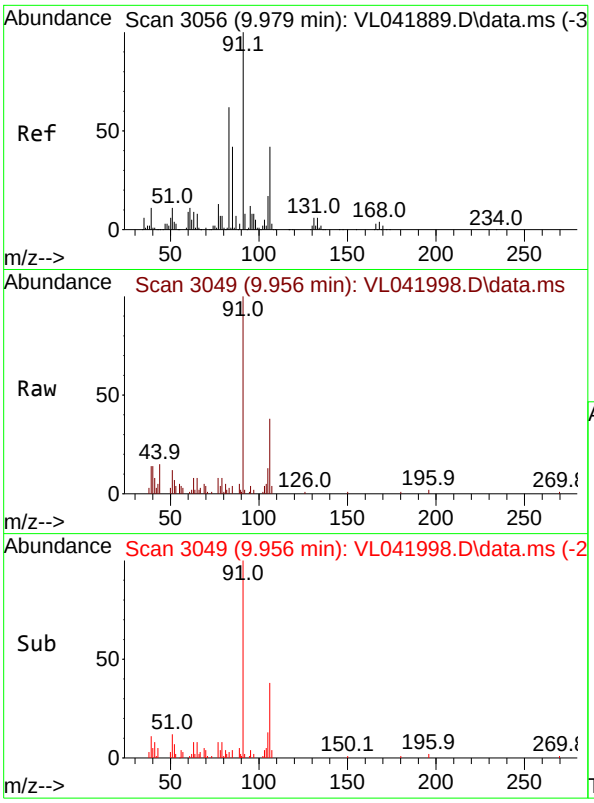


#59
m/p-Xylene
Concen: 0.330 ppbv m
RT: 9.522 min Scan# 2915
Delta R.T. -0.042 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion: 91 Resp: 16482

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.0	54.0#



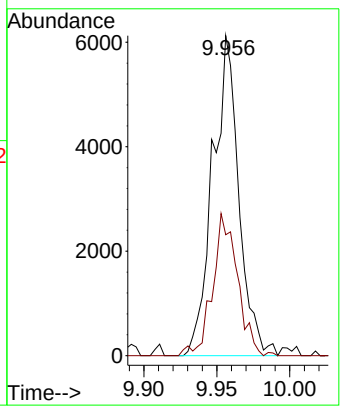


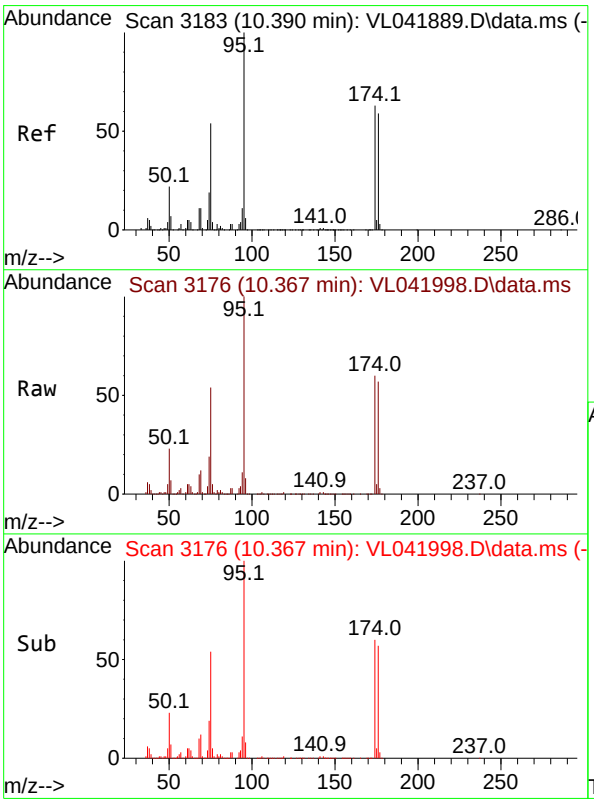
#60
o-Xylene
Concen: 0.154 ppbv m
RT: 9.956 min Scan# 3
Delta R.T. -0.023 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 7656

Ion	Ratio	Lower	Upper
91	100		
106	97.9	21.3	63.9#

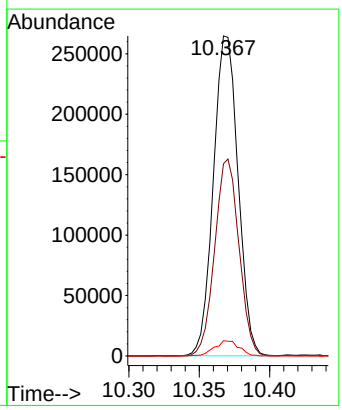




#68
1-Bromo-4-Fluorobenzene
Concen: 10.294 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.023 min
Lab File: VL041998.D
Acq: 11 Feb 2025 11:39

Tgt Ion: 95 Resp: 323329

Ion	Ratio	Lower	Upper
95	100		
174	60.6	49.0	73.4
175	4.8	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:	02/06/25
Project:	315 W. 106th St NY, NY	Date Received:	02/07/25
Client Sample ID:	OA1	SDG No.:	Q1342
Lab Sample ID:	Q1342-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042000.D	1		02/11/25 12:46	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.39	1.93	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.53	1.09		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.19	1.07	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	3.20	7.60		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.34	1.18	J	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.16	0.47	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.21	0.67	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.22	0.83	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

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Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	02/06/25
Project:	315 W. 106th St NY, NY	Date Received:	02/07/25
Client Sample ID:	OA1	SDG No.:	Q1342
Lab Sample ID:	Q1342-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042000.D	1		02/11/25 12:46	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.12	0.42	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	163000		2.784			
540-36-3	1,4-Difluorobenzene	436000		3.952			
3114-55-4	Chlorobenzene-d5	374000		8.875			

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Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	02/06/25
Project:	315 W. 106th St NY, NY	Date Received:	02/07/25
Client Sample ID:	OA1	SDG No.:	Q1342
Lab Sample ID:	Q1342-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042000.D	1		02/11/25 12:46	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL021125\
Data File : VL042000.D
Acq On : 11 Feb 2025 12:46
Operator : SY/MD
Sample : Q1342-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Feb 11 22:19:40 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

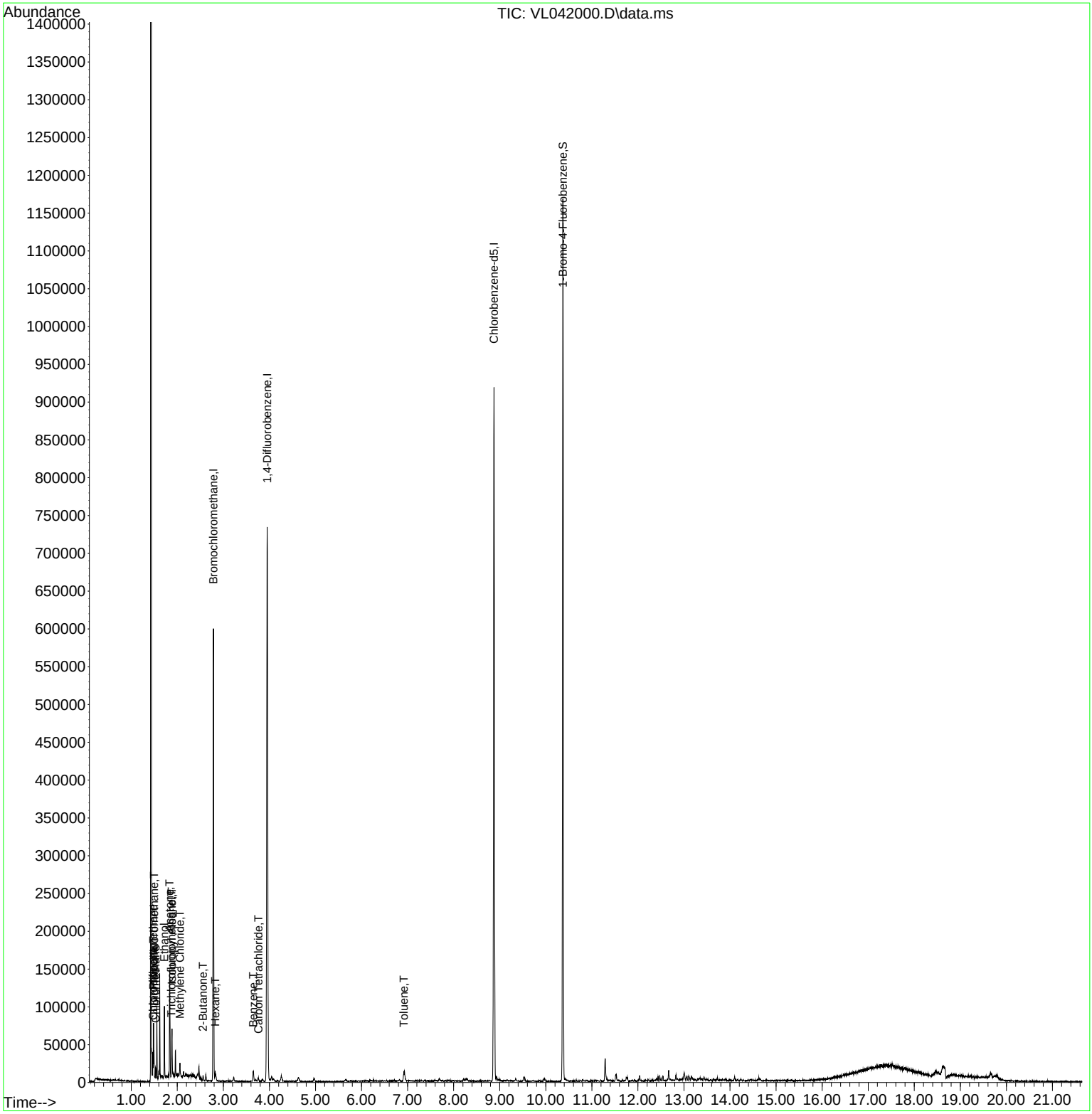
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	163409	10.000	ppbv		-0.01
33) 1,4-Difluorobenzene	3.952	114	436244	10.000	ppbv		-0.02
55) Chlorobenzene-d5	8.875	117	374213	10.000	ppbv		-0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.370	95	289633	9.827	ppbv		-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	8586	0.386	ppbv		90
3) Chlorodifluoromethane	1.473	51	5138m	0.220	ppbv		
4) Chloromethane	1.528	50	4437	0.530	ppbv		96
9) Propene	1.483	41	6246	0.650	ppbv		90
11) Trichlorofluoromethane	1.874	101	4482	0.194	ppbv		87
13) Ethanol	1.719	45	30945	43.982	ppbv		89
15) Acetone	1.832	43	62268	3.173	ppbv		98
19) Isopropyl Alcohol	1.884	45	25228	2.168	ppbv	#	67
20) Methylene Chloride	2.059	84	2642	0.341	ppbv	#	76
26) Hexane	2.823	57	2496	0.119	ppbv	#	59
34) 2-Butanone	2.557	43	4321	0.156	ppbv		98
35) Carbon Tetrachloride	3.761	117	1871	0.068	ppbv	#	77
36) Benzene	3.648	78	8304m	0.208	ppbv		
53) Toluene	6.920	91	9366m	0.215	ppbv		

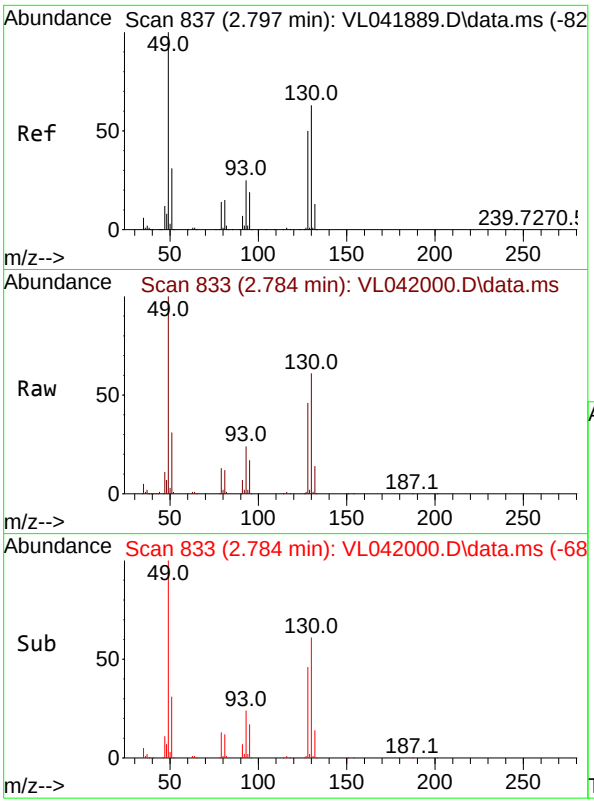
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL042000.D
Acq On : 11 Feb 2025 12:46
Operator : SY/MD
Sample : Q1342-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Feb 11 22:19:40 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



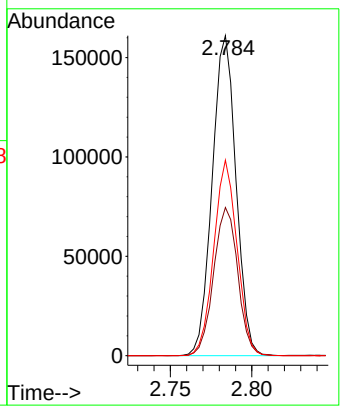


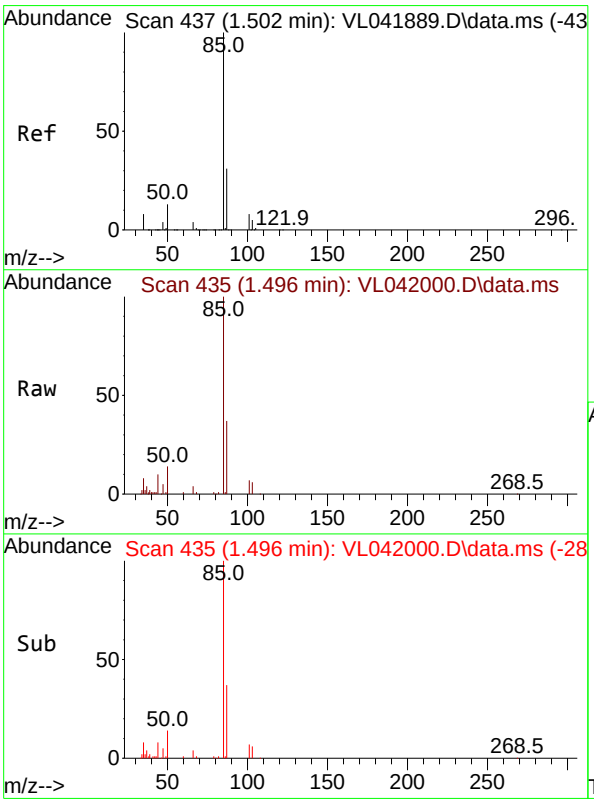
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. -0.013 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 49 Resp: 163409

Ion	Ratio	Lower	Upper
49	100		
128	47.0	24.3	73.0
130	59.7	31.1	93.2

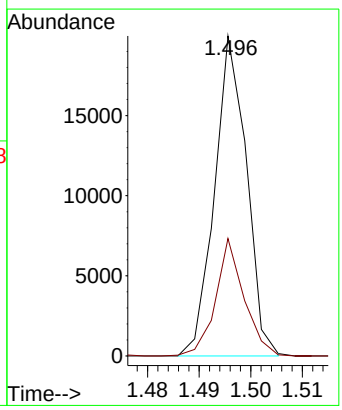


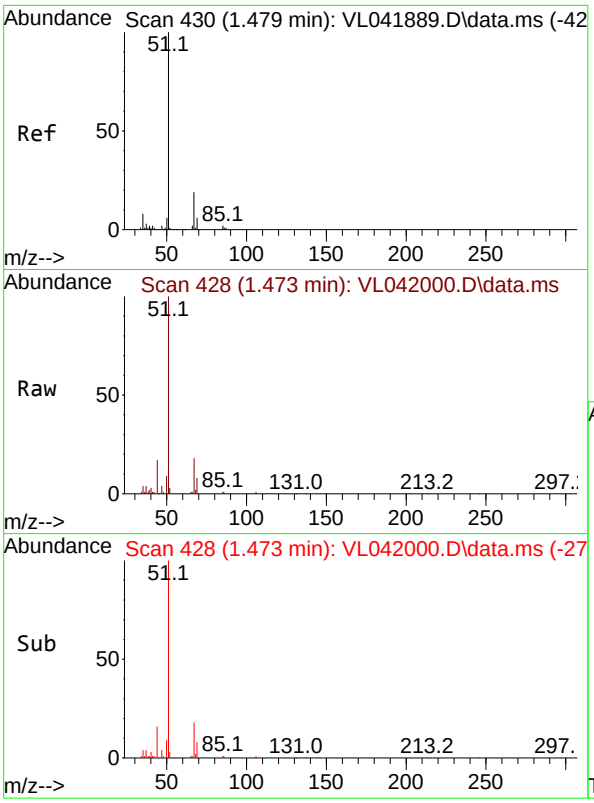


#2
Dichlorodifluoromethane
Concen: 0.386 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Tgt Ion: 85 Resp: 8586

Ion	Ratio	Lower	Upper
85	100		
87	36.5	24.9	37.3



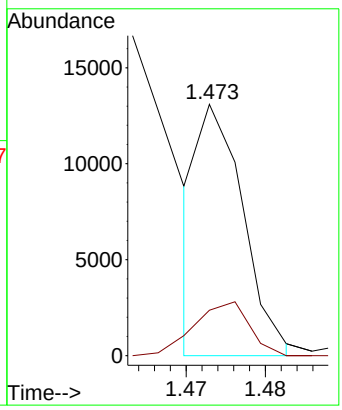


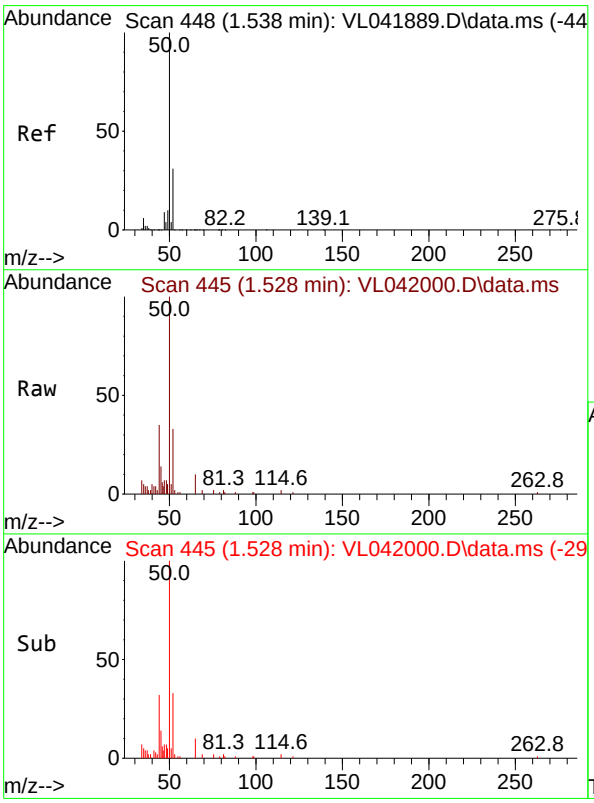
#3
Chlorodifluoromethane
Concen: 0.220 ppbv m
RT: 1.473 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 5138

Ion	Ratio	Lower	Upper
51	100		
67	29.1	15.0	22.4#

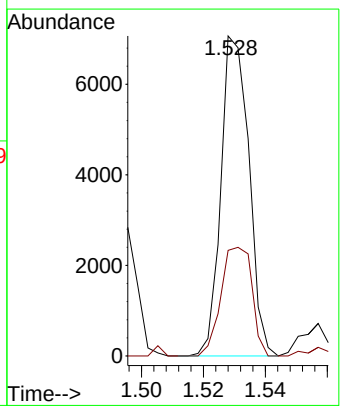


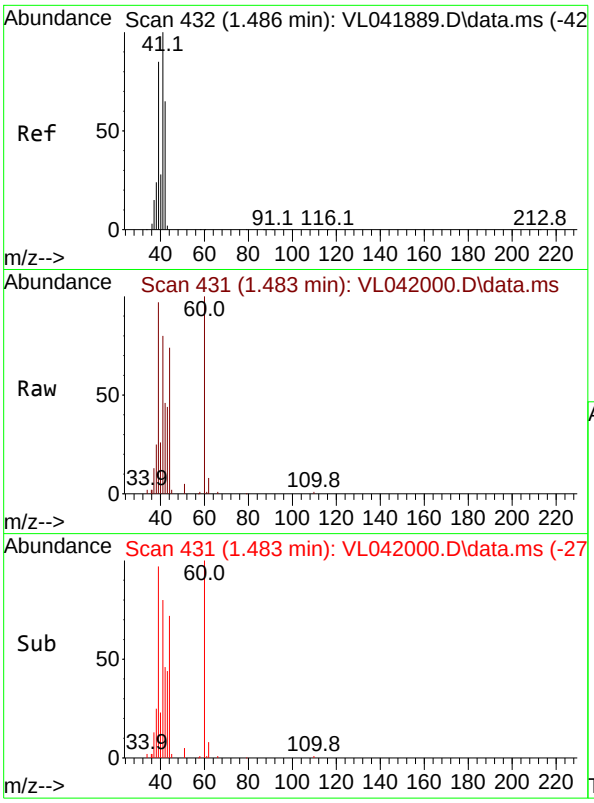


#4
Chloromethane
Concen: 0.530 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Tgt Ion: 50 Resp: 4437

Ion	Ratio	Lower	Upper
50	100		
52	33.0	24.6	36.8



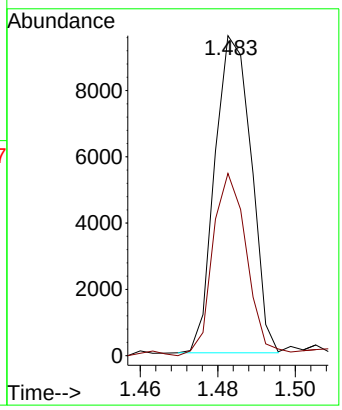


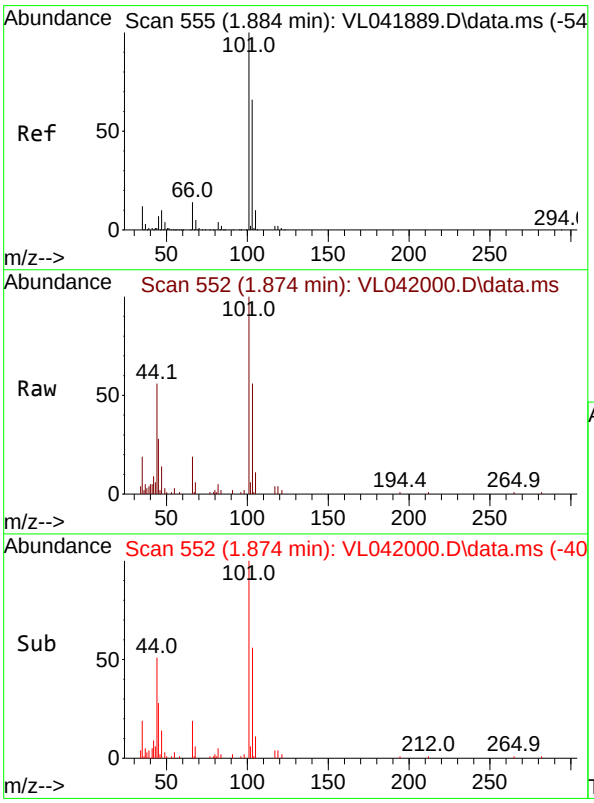
#9
Propene
Concen: 0.650 ppbv
RT: 1.483 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 41 Resp: 6246

Ion	Ratio	Lower	Upper
41	100		
42	56.9	52.0	78.0

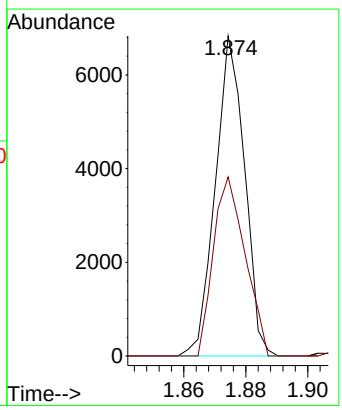


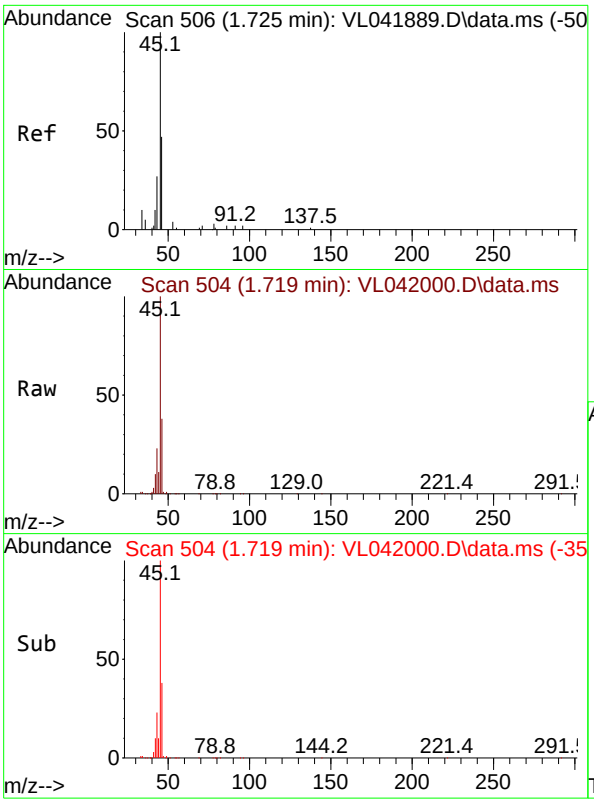


#11
Trichlorofluoromethane
Concen: 0.194 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.010 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Tgt Ion:101 Resp: 4482

Ion	Ratio	Lower	Upper
101	100		
103	55.9	53.1	79.7



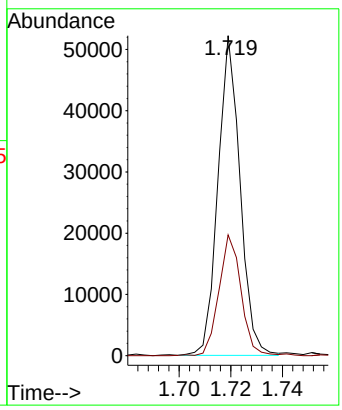


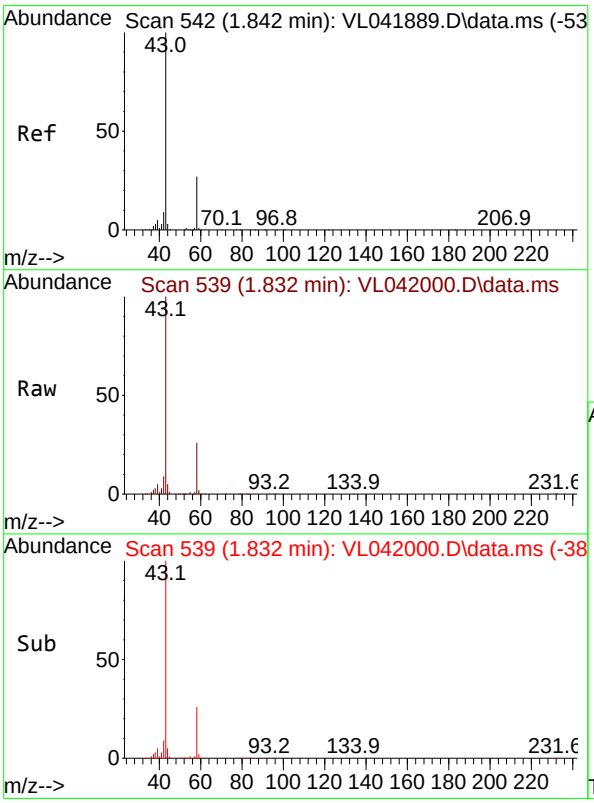
#13
Ethanol
Concen: 43.982 ppbv
RT: 1.719 min Scan# 5
Delta R.T. -0.006 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 30945

Ion	Ratio	Lower	Upper
45	100		
46	38.3	18.1	72.5

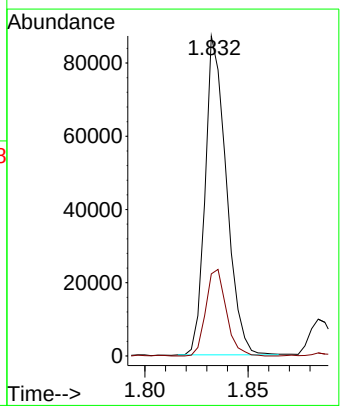


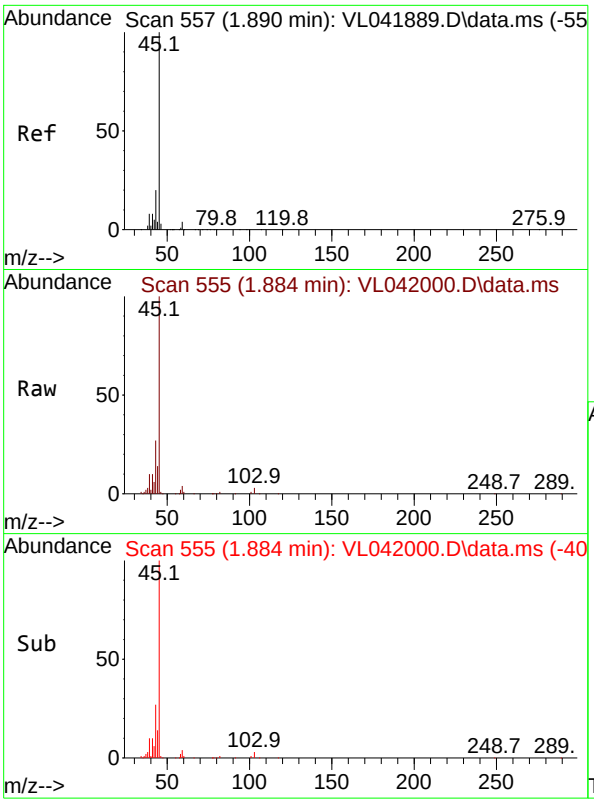


#15
Acetone
Concen: 3.173 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.010 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Tgt Ion: 43 Resp: 62268

Ion	Ratio	Lower	Upper
43	100		
58	26.3	21.9	32.9



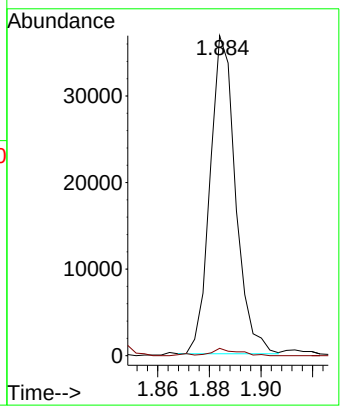


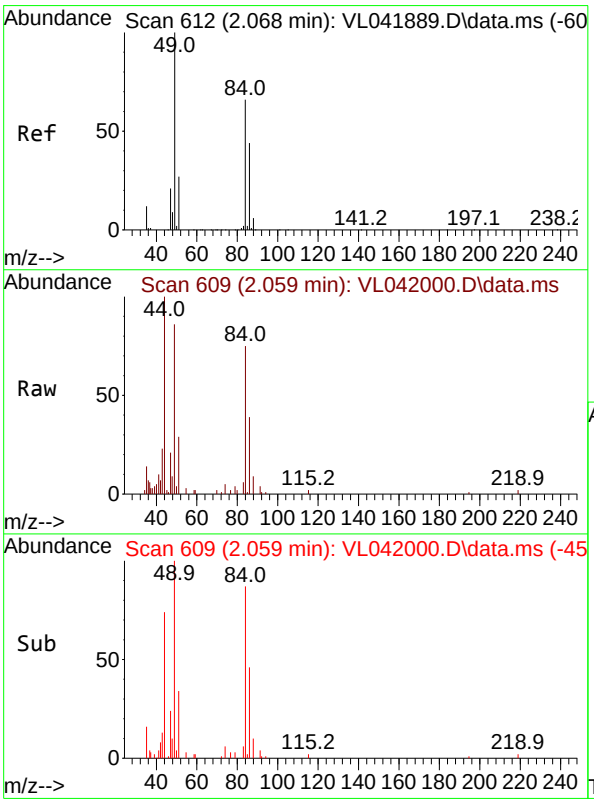
#19
Isopropyl Alcohol
Concen: 2.168 ppbv
RT: 1.884 min Scan# 5
Delta R.T. -0.006 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 25228

Ion	Ratio	Lower	Upper
45	100		
58	65.1	35.0	52.6#

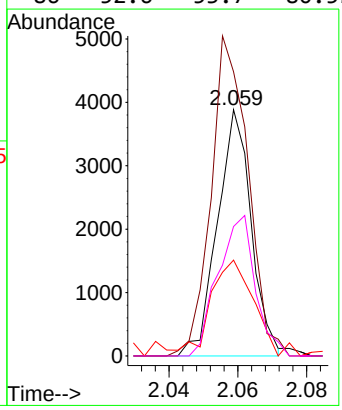


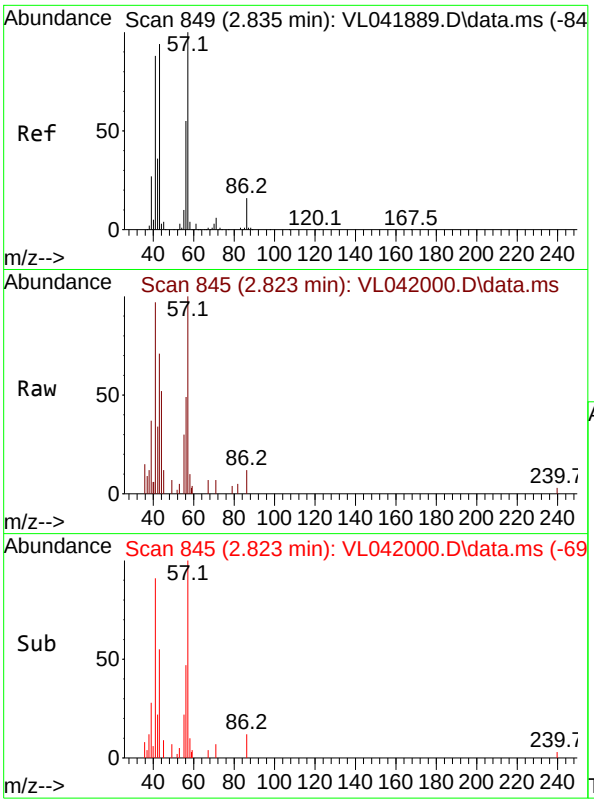


#20
Methylene Chloride
Concen: 0.341 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Tgt Ion: 84 Resp: 2642

Ion	Ratio	Lower	Upper
84	100		
49	113.3	123.1	184.7#
51	38.9	35.8	53.8
86	52.6	53.7	80.5#



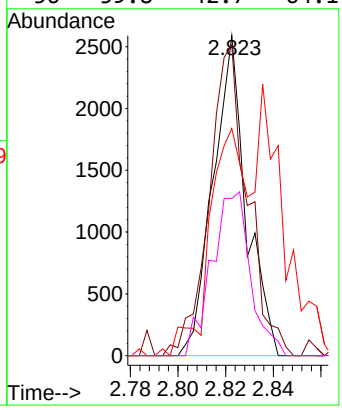


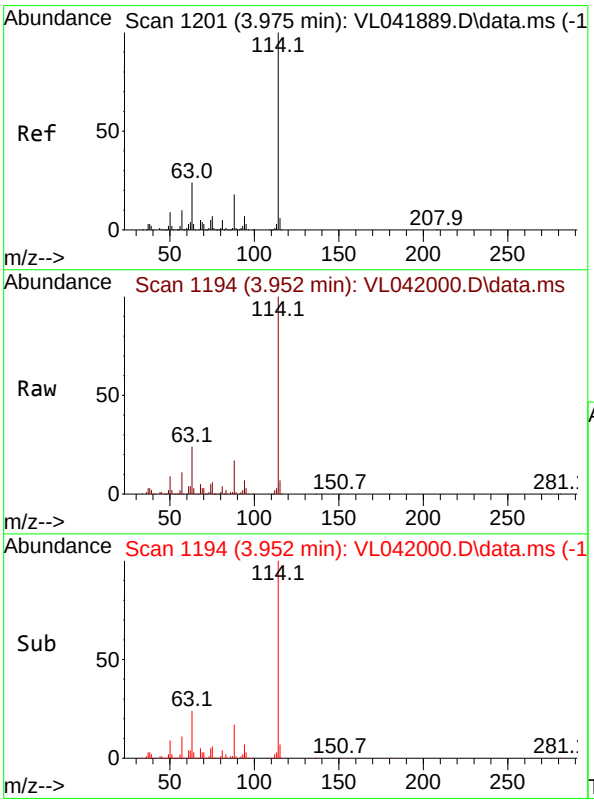
#26
Hexane
Concen: 0.119 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.013 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 57 Resp: 2496

Ion	Ratio	Lower	Upper
57	100		
41	114.5	73.8	110.8#
43	152.6	197.3	295.9#
56	59.8	42.7	64.1

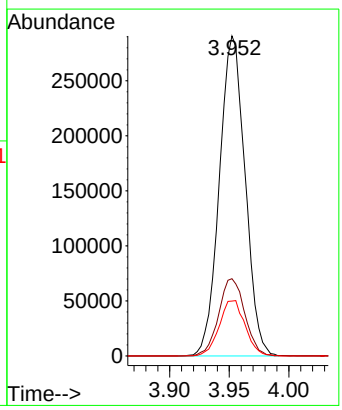


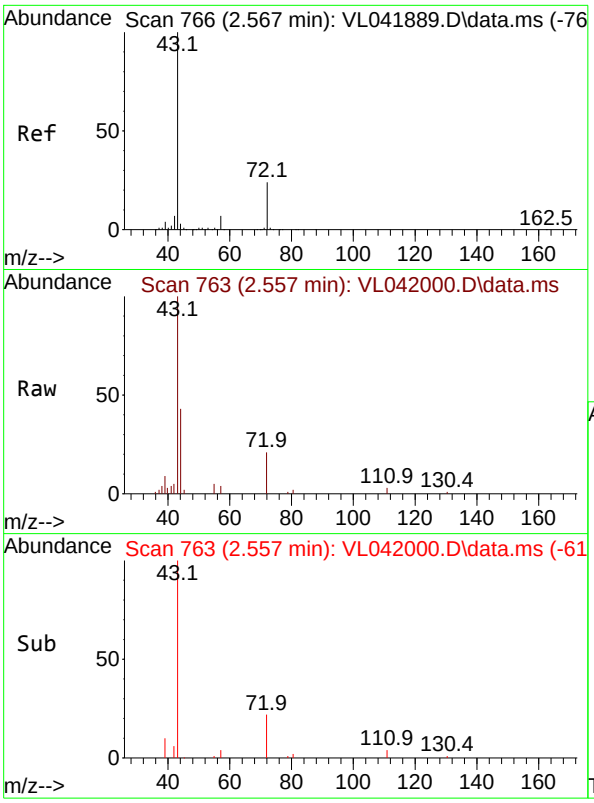


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.023 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Tgt Ion:114 Resp: 436244

Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.8	29.6
88	17.5	14.4	21.6



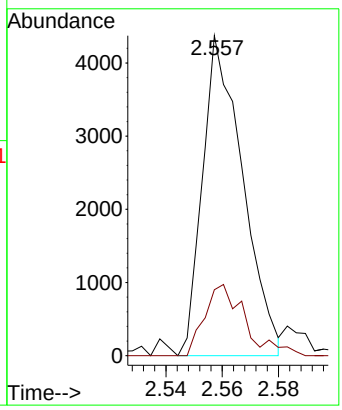


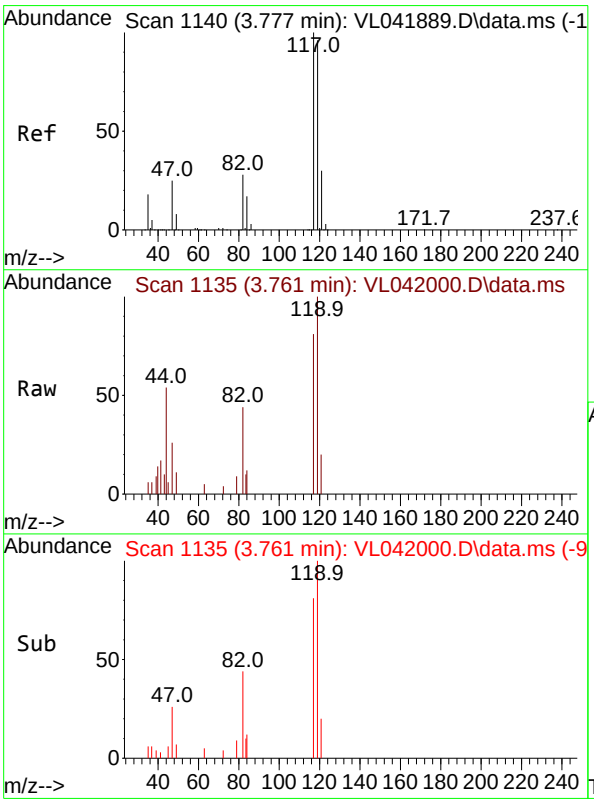
#34
2-Butanone
Concen: 0.156 ppbv
RT: 2.557 min Scan# 7
Delta R.T. -0.010 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 4321

Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.6	28.0

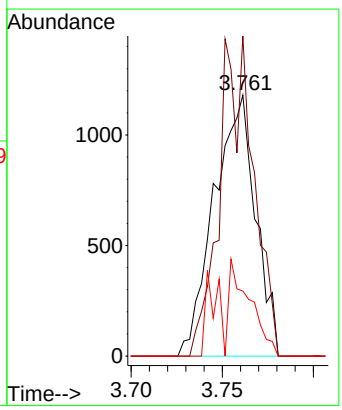


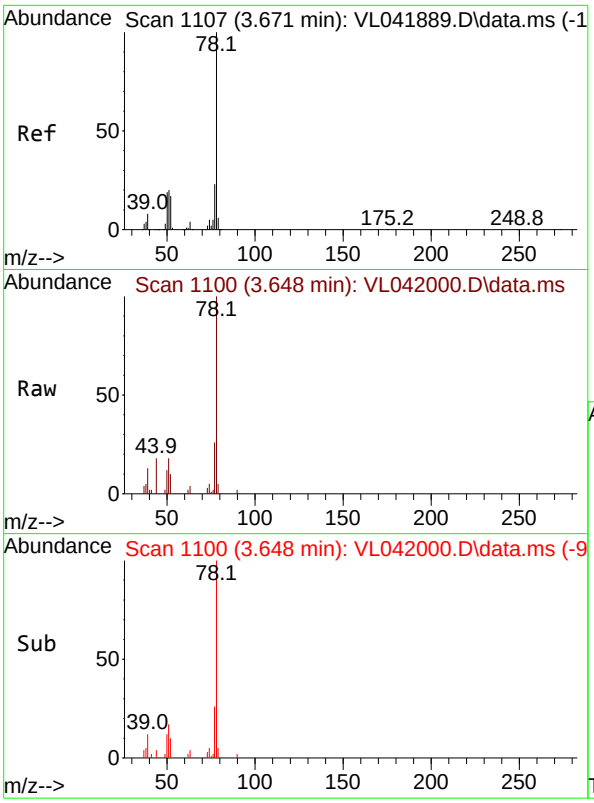


#35
Carbon Tetrachloride
Concen: 0.068 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.016 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Tgt Ion:117 Resp: 1871

Ion	Ratio	Lower	Upper
117	100		
119	122.7	76.9	115.3#
121	24.9	23.8	35.6



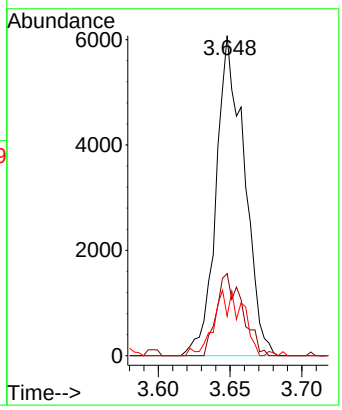


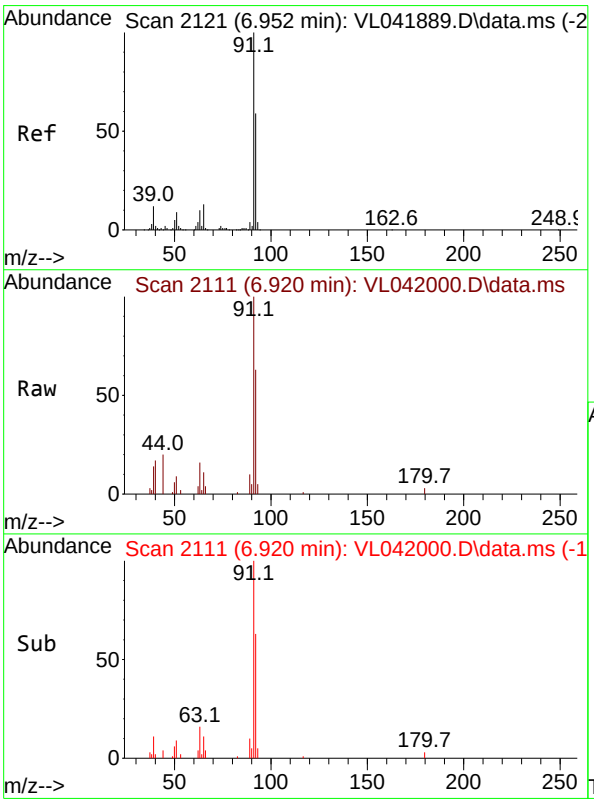
#36
Benzene
Concen: 0.208 ppbv m
RT: 3.648 min Scan# 1
Delta R.T. -0.023 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 78 Resp: 8304

Ion	Ratio	Lower	Upper
78	100		
77	25.6	18.1	27.1
50	12.3	15.2	22.8#

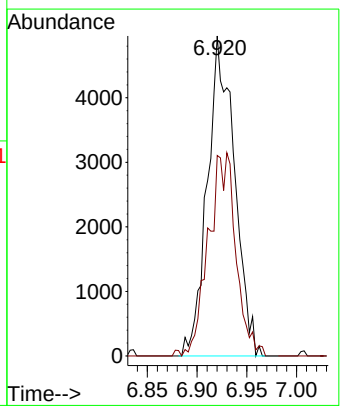


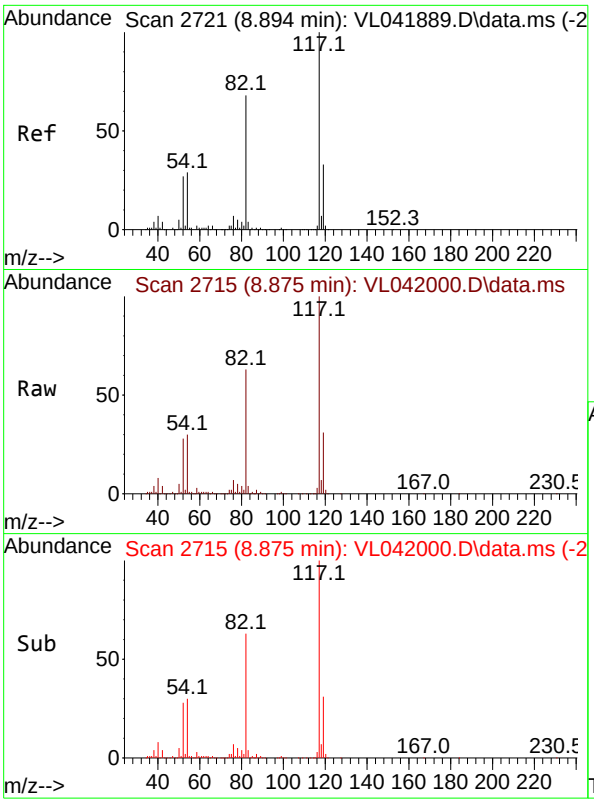


#53
Toluene
Concen: 0.215 ppbv m
RT: 6.920 min Scan# 2111
Delta R.T. -0.032 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Tgt Ion: 91 Resp: 9366

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.0#



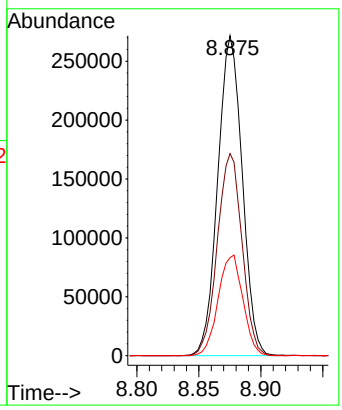


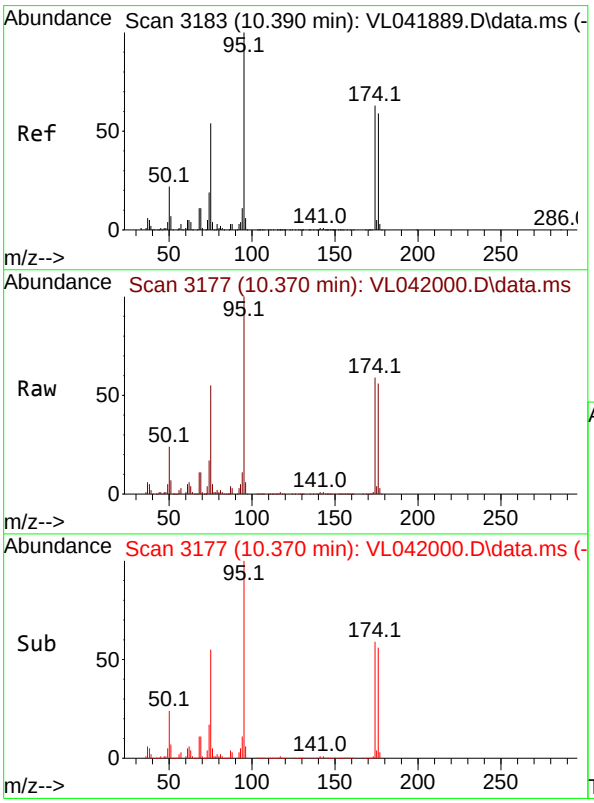
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2
Delta R.T. -0.019 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:117 Resp: 374213

Ion	Ratio	Lower	Upper
117	100		
82	63.8	54.2	81.4
119	31.8	25.0	37.6

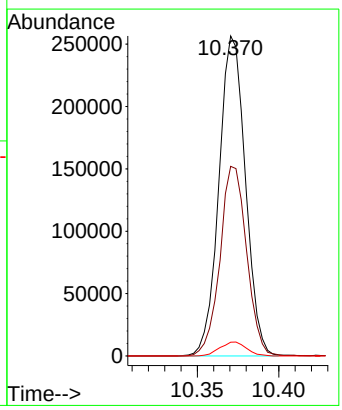




#68
1-Bromo-4-Fluorobenzene
Concen: 9.827 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.019 min
Lab File: VL042000.D
Acq: 11 Feb 2025 12:46

Tgt Ion: 95 Resp: 289633

Ion	Ratio	Lower	Upper
95	100		
174	59.8	49.0	73.4
175	4.4	3.8	5.8



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.: Q1342 SAS No.: Q1342 SDG No.: Q1342

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
Dichlorodifluoromethane	1.300	1.359	1.406	1.450			1.362	4.9
Chloromethane	0.492	0.525	0.499	0.546			0.512	4.4
Vinyl Chloride	0.466	0.502	0.531	0.561	0.578	0.504	0.519	7.6
Bromomethane	0.229	0.248	0.274	0.253			0.247	7.3
Chloroethane	0.193	0.209	0.205	0.210			0.202	4.1
Tetrahydrofuran	0.348	0.358	0.344	0.333			0.346	2.5
Trichlorofluoromethane	1.335	1.435	1.417	1.488			1.417	3.9
1,1,2-Trichlorotrifluoroethane	1.057	1.166	1.137	1.098			1.111	3.8
Dichlorotetrafluoroethane	1.095	1.225	1.198	1.282			1.190	6
tert-Butyl alcohol	1.399	1.503	1.559	1.527			1.478	4.9
Heptane	1.530	1.635	1.616	1.536			1.571	3.2
1,1-Dichloroethene	0.458	0.514	0.517	0.520			0.501	5.2
Acetone	0.991	1.256	1.301	1.405			1.201	14.5
Carbon Disulfide	1.258	1.304	1.256	1.210			1.268	3.2
Methyl tert-Butyl Ether	0.774	1.007	1.187	1.043			0.979	16.1
Methylene Chloride	0.390	0.478	0.503	0.586			0.475	16.3
trans-1,2-Dichloroethene	0.540	0.595	0.583	0.549			0.565	4.1
1,1-Dichloroethane	1.017	1.100	1.099	1.165			1.093	4.8
Cyclohexane	1.082	1.145	1.193	1.037			1.111	5.4
2-Butanone	0.602	0.679	0.646	0.649			0.636	5.1
Carbon Tetrachloride	0.649	0.657	0.616	0.584	0.608	0.605	0.628	5.3
cis-1,2-Dichloroethene	1.272	1.390	1.397	1.406			1.349	5
Chloroform	1.911	2.105	2.060	2.101			2.025	4.4
1,1,1-Trichloroethane	1.905	1.956	2.010	1.942	1.841	1.937	1.938	2.8
2,2,4-Trimethylpentane	1.457	1.566	1.501	1.450			1.484	3.5
Benzene	0.882	0.949	0.949	0.926			0.917	3.8
1,2-Dichloroethane	0.493	0.517	0.516	0.539			0.515	3.2
Trichloroethene	0.354	0.373	0.374	0.381	0.427	0.286	0.364	11.6
1,2-Dichloropropane	0.305	0.329	0.321	0.349			0.322	5.8
Bromodichloromethane	0.684	0.703	0.659	0.700			0.691	2.8

* 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.

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.: Q1342 SAS No.: Q1342 SDG No.: Q1342

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
4-Methyl-2-Pentanone	0.833	0.899	0.870	0.892			0.868	3.3
Toluene	1.011	1.048	0.996	0.934			0.999	4.1
t-1,3-Dichloropropene	0.338	0.319	0.292	0.300			0.319	7.4
cis-1,3-Dichloropropene	0.446	0.439	0.391	0.371			0.419	8.4
1,1,2-Trichloroethane	0.333	0.350	0.345	0.340			0.341	2.1
Dibromochloromethane	0.545	0.541	0.489	0.490			0.526	6.6
1,2-Dibromoethane	0.454	0.494	0.468	0.488	0.440		0.469	4.3
Tetrachloroethene	0.292	0.330	0.329	0.317	0.348	0.320	0.318	6.5
Chlorobenzene	0.848	0.977	0.968	0.986			0.922	8.2
Ethyl Benzene	1.551	1.653	1.563	1.507			1.563	3.5
m/p-Xylene	1.223	1.355	1.265	1.186			1.253	5.1
o-Xylene	1.224	1.348	1.241	1.179			1.243	5.1
Styrene	0.587	0.576	0.515	0.516			0.558	7
Bromoform	0.460	0.439	0.394	0.379			0.432	10.5
1,1,2,2-Tetrachloroethane	0.751	0.858	0.845	0.816	0.756		0.795	6.5
2-Chlorotoluene	1.389	1.537	1.410	1.394			1.423	4.5
1,3,5-Trimethylbenzene	1.263	1.448	1.360	1.222			1.313	6.9
1,2,4-Trimethylbenzene	1.346	1.607	1.456	1.359			1.422	8
1,3-Dichlorobenzene	0.776	0.903	0.884	0.881			0.843	7.6
1,4-Dichlorobenzene	0.769	0.889	0.859	0.830			0.825	6.3
1,2-Dichlorobenzene	0.757	0.909	0.902	0.863			0.835	9.4
1,2,4-Trichlorobenzene	0.598	0.819	0.738	0.745			0.699	14.1
Hexachloro-1,3-Butadiene	0.586	0.772	0.742	0.747			0.686	13.7
1,3-Butadiene	0.494	0.545	0.589	0.552			0.539	6.7
Naphthalene	1.255	1.941	1.682	1.479	0.978		1.432	24
4-Ethyltoluene	1.466	1.610	1.447	1.442			1.487	4.7
1-Bromo-4-Fluorobenzene	0.782	0.795	0.792	0.784	0.785	0.783	0.788	0.7
Hexane	1.261	1.388	1.249	1.265			1.281	4.7
Allyl Chloride	0.792	0.847	0.823	0.897			0.832	5.1
1,4-Dioxane	147.355	161.082	161.992	187.108			162.477	9.2

* 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.

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.: Q1342 SAS No.: Q1342 SDG No.: Q1342

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
Methyl Methacrylate	0.338	0.349	0.336	0.340			0.341	1.4

* 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

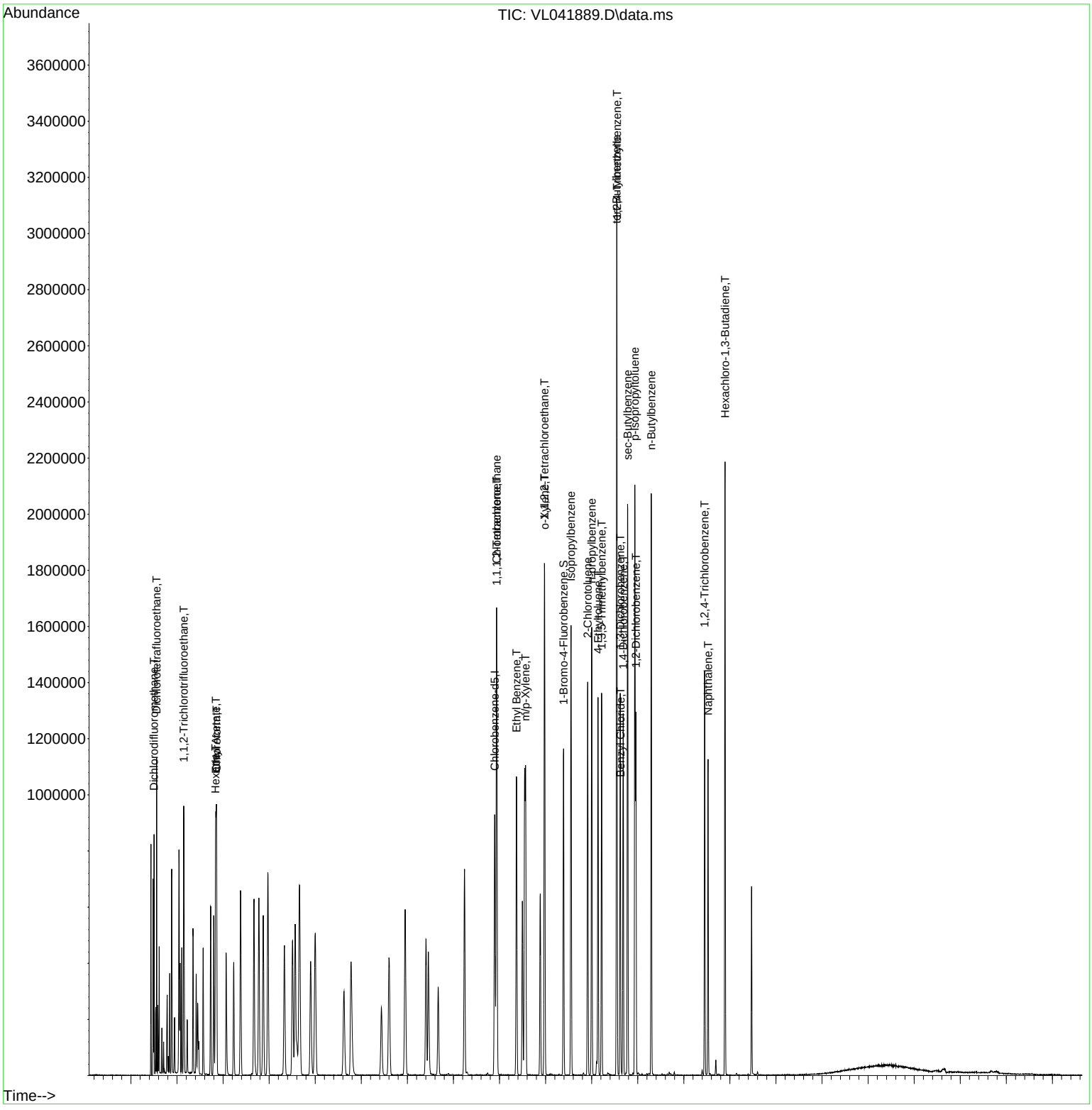
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

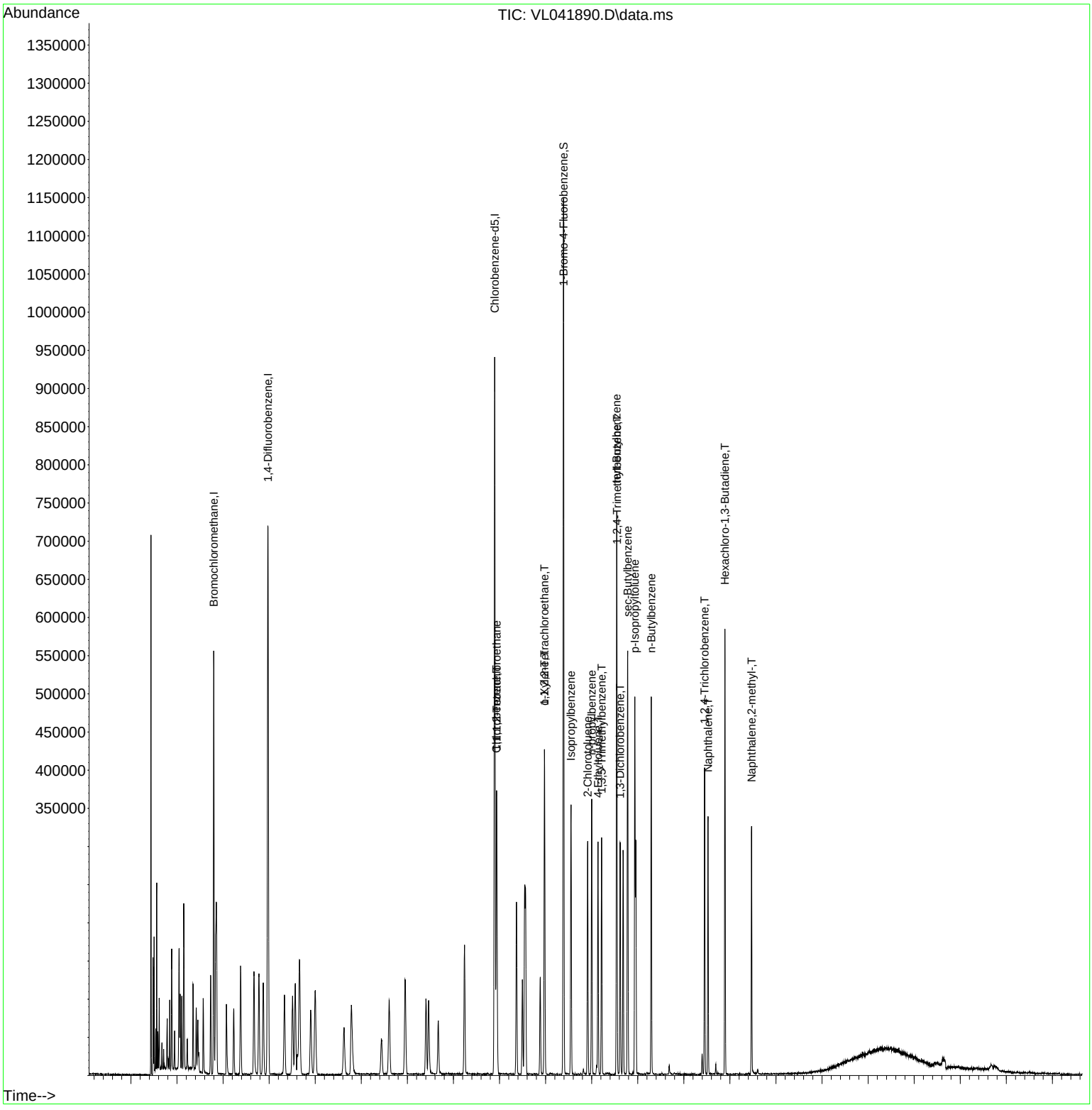
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

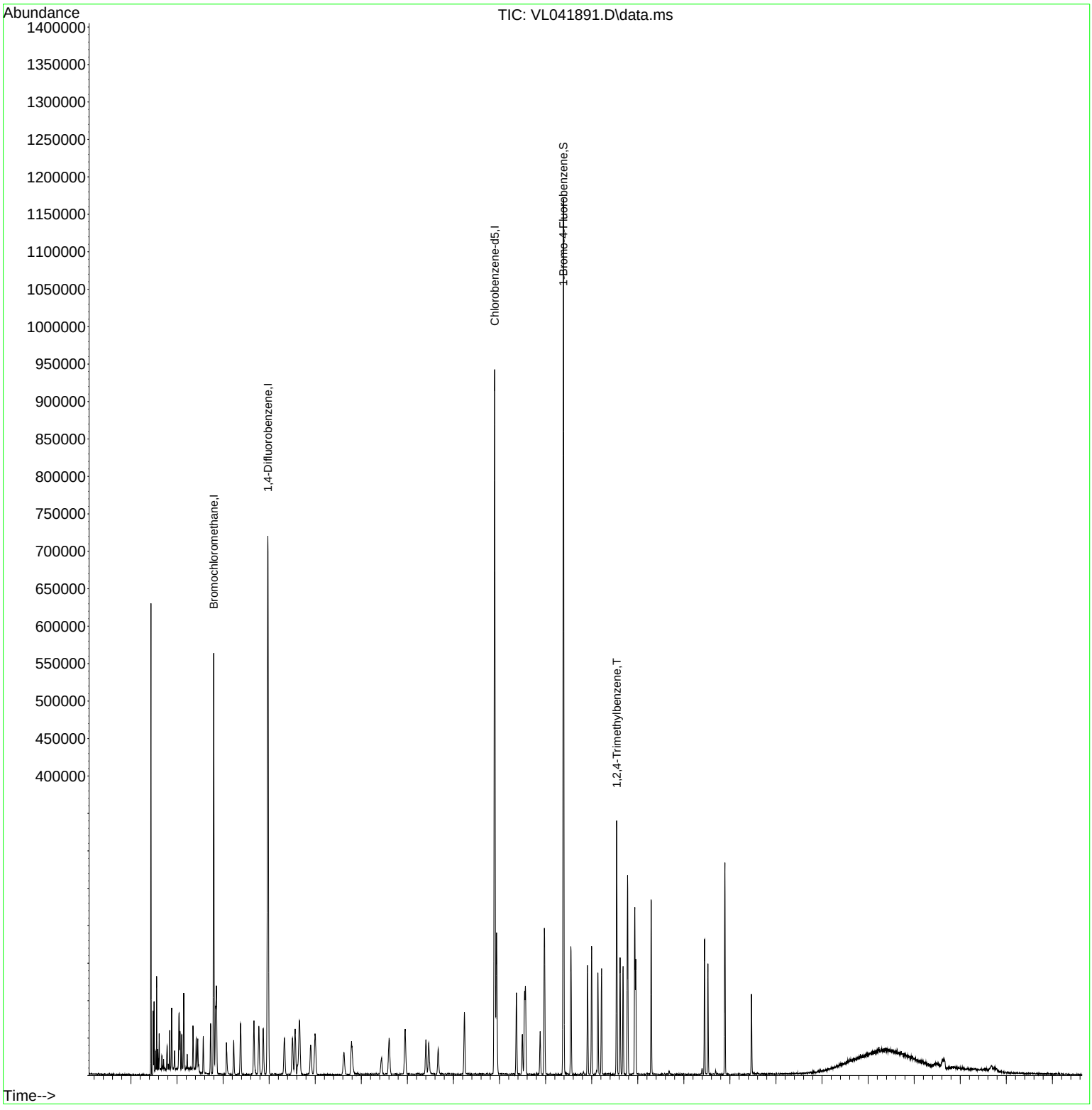
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

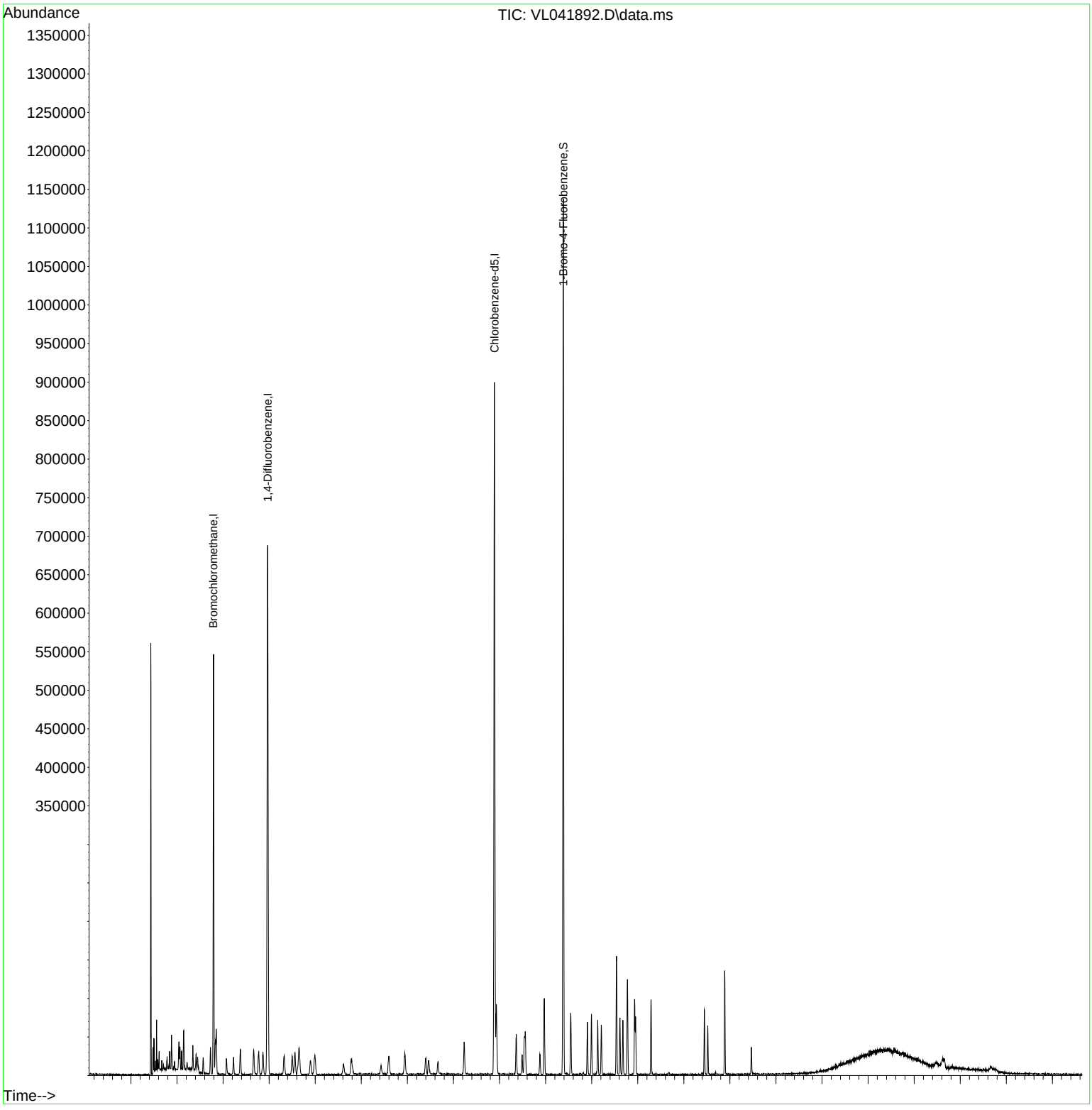
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

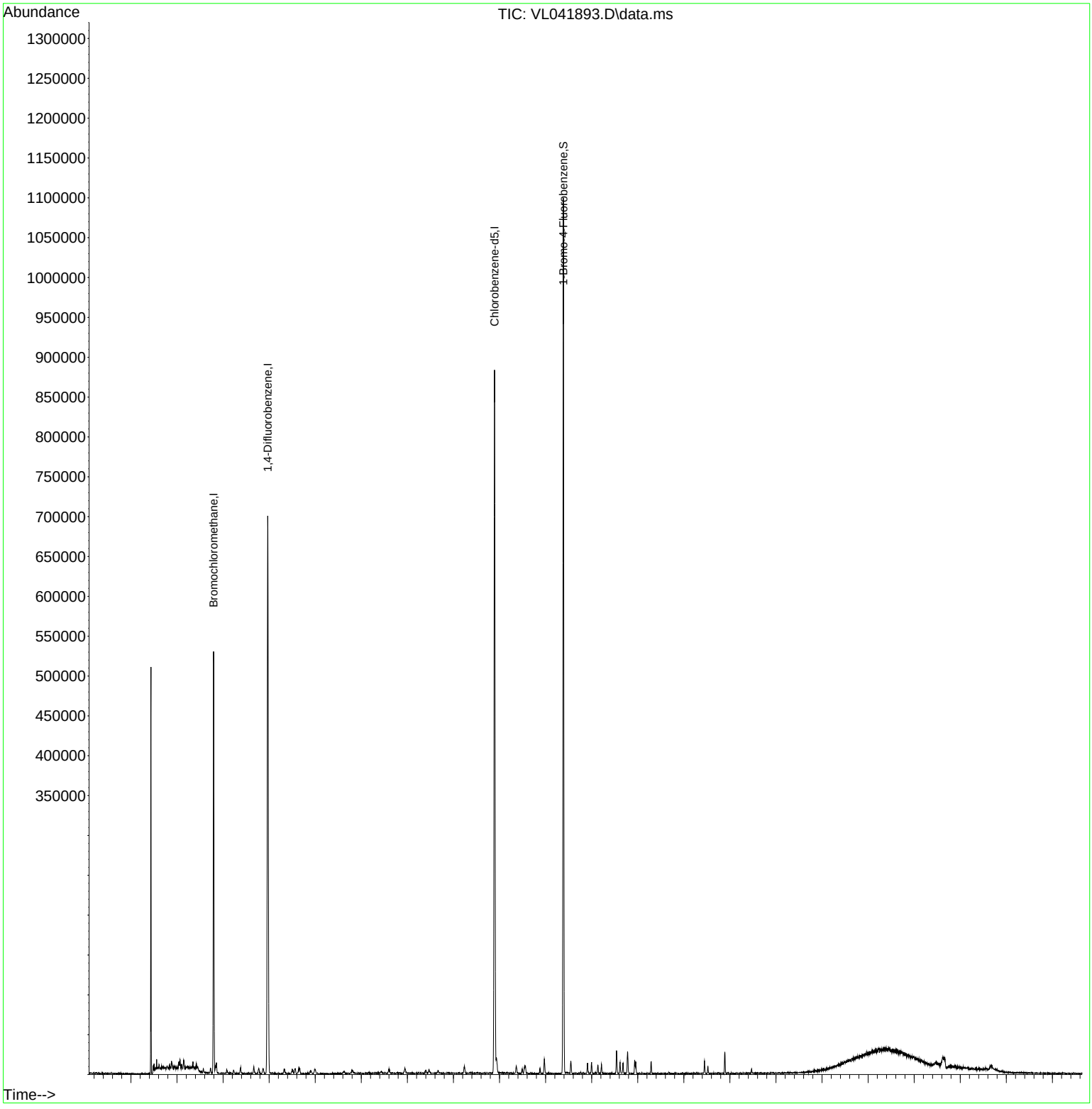
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

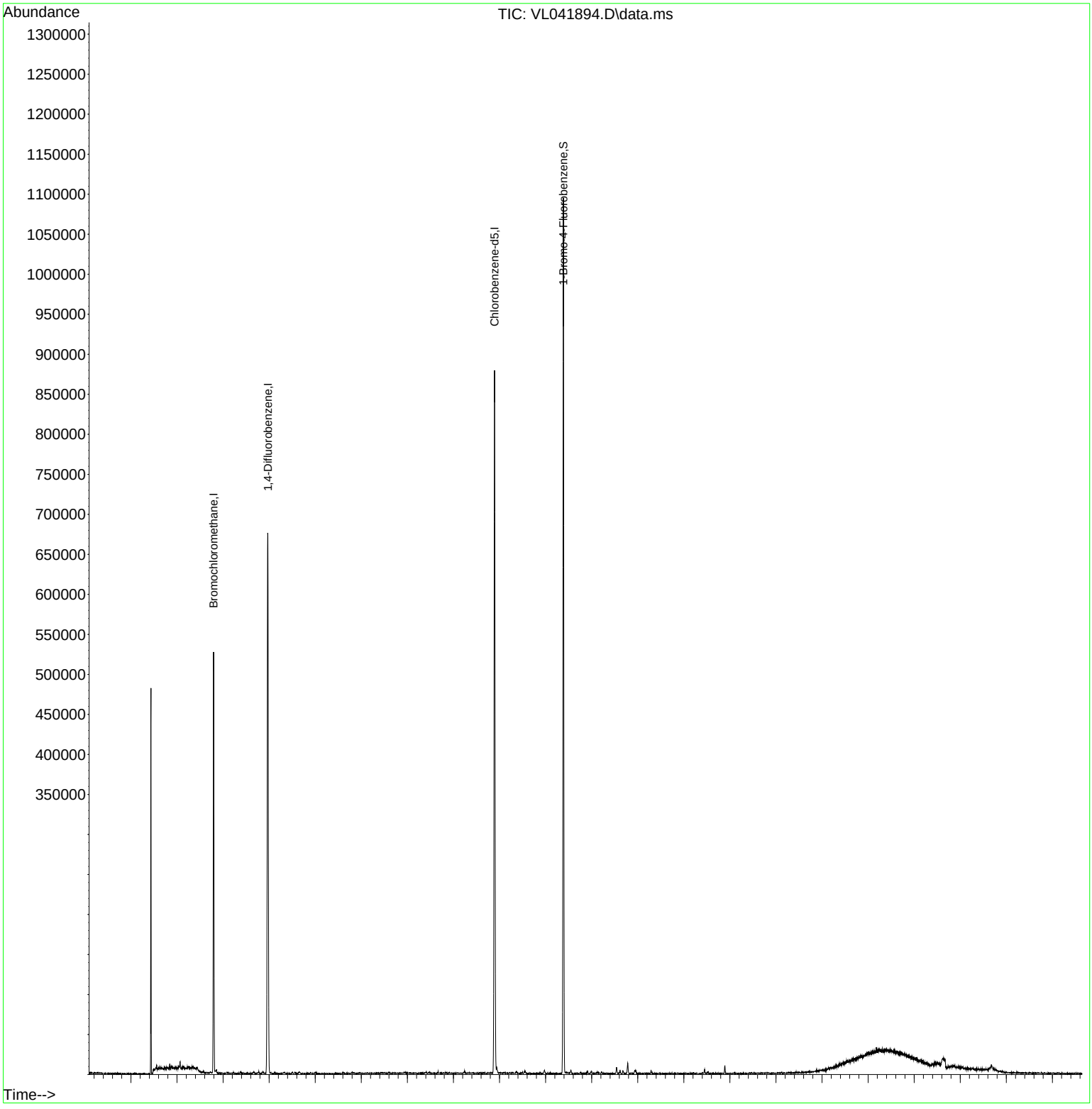
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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)

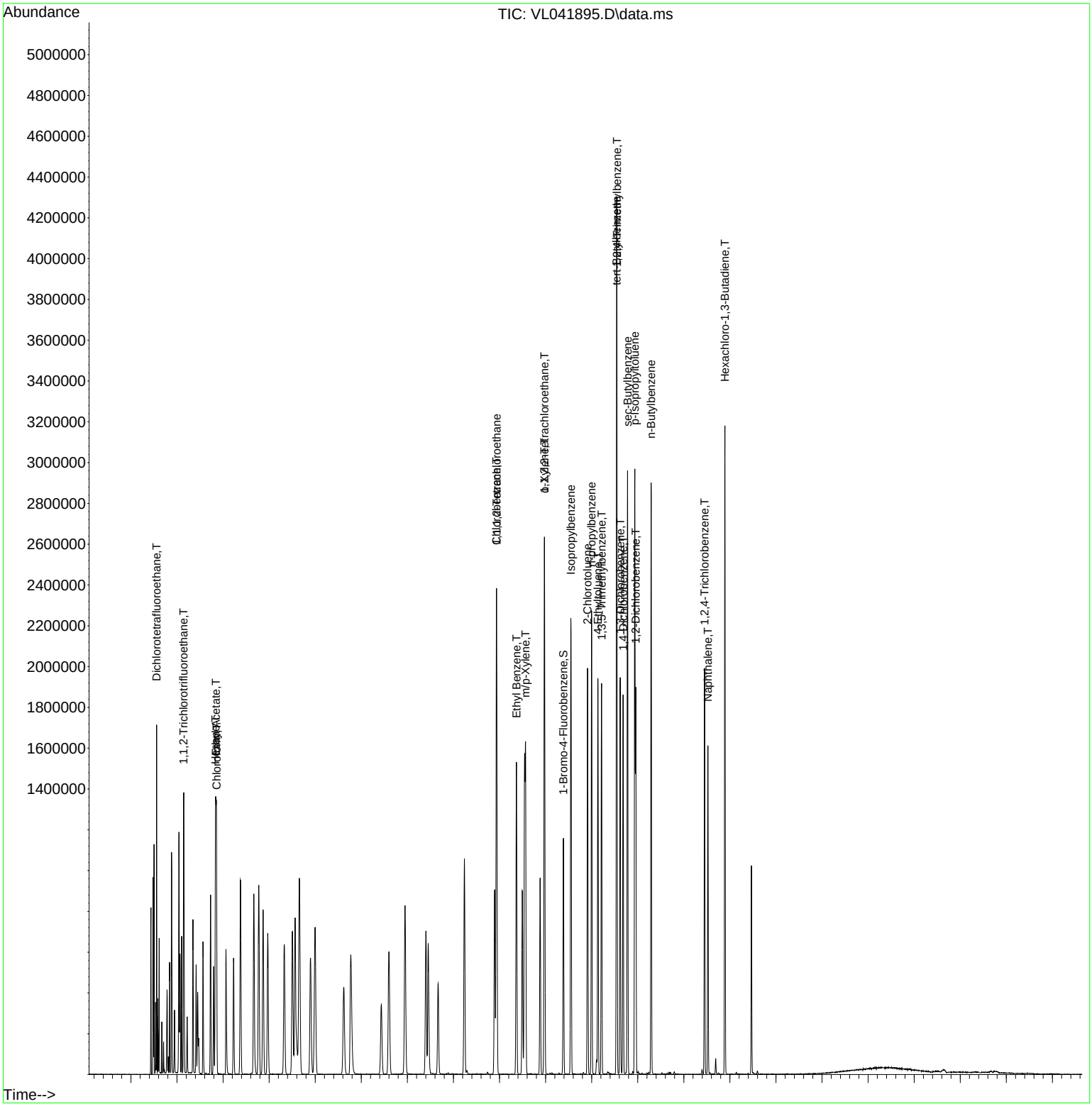
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

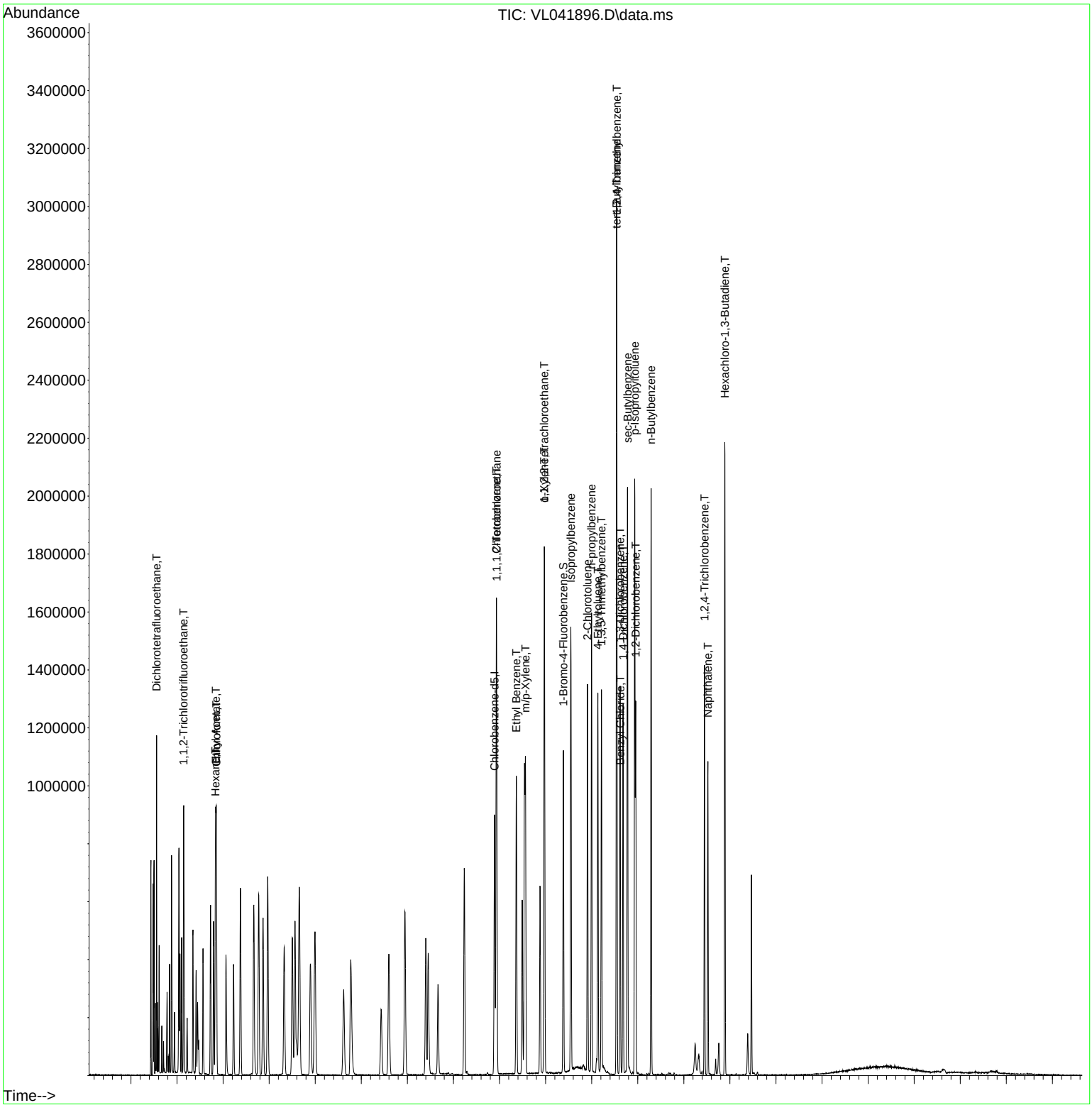
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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.: Q1342 SAS No.: Q1342 SDG No.: Q1342

Instrument ID: MSVOA_L Calibration Date/Time: 02/11/2025 09:21

Lab File ID: VL041995.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
Dichlorodifluoromethane	1.362	1.118		-17.92	30
Chloromethane	0.512	0.477		-6.84	30
Vinyl Chloride	0.519	0.459		-11.56	30
Bromomethane	0.247	0.211		-14.57	30
Chloroethane	0.202	0.185		-8.42	30
Tetrahydrofuran	0.346	0.364		5.2	30
Trichlorofluoromethane	1.417	1.196		-15.6	30
1,1,2-Trichlorotrifluoroethane	1.111	0.980		-11.79	30
Dichlorotetrafluoroethane	1.190	1.055		-11.35	30
tert-Butyl alcohol	1.478	1.175		-20.5	30
Heptane	1.571	1.514		-3.63	30
1,1-Dichloroethene	0.501	0.414		-17.36	30
Acetone	1.201	1.025		-14.65	30
Carbon Disulfide	1.268	1.179		-7.02	30
Methyl tert-Butyl Ether	0.979	0.786		-19.71	30
Methylene Chloride	0.475	0.354		-25.47	30
trans-1,2-Dichloroethene	0.565	0.491		-13.1	30
1,1-Dichloroethane	1.093	0.993		-9.15	30
Cyclohexane	1.111	1.040		-6.39	30
2-Butanone	0.636	0.639		0.47	30
Carbon Tetrachloride	0.628	0.639		1.75	30
cis-1,2-Dichloroethene	1.349	1.193		-11.64	30
Chloroform	2.025	1.911		-5.63	30
1,1,1-Trichloroethane	1.938	1.777		-8.31	30
2,2,4-Trimethylpentane	1.484	1.513		1.95	30
Benzene	0.917	0.892		-2.73	30
1,2-Dichloroethane	0.515	0.497		-3.49	30
Trichloroethene	0.364	0.357		-1.92	30
1,2-Dichloropropane	0.322	0.323		0.31	30
Bromodichloromethane	0.691	0.684		-1.01	30
4-Methyl-2-Pentanone	0.868	0.886		2.07	30
Toluene	0.999	0.986		-1.3	30
t-1,3-Dichloropropene	0.319	0.300		-5.96	30
cis-1,3-Dichloropropene	0.419	0.408		-2.63	30
1,1,2-Trichloroethane	0.341	0.343		0.59	30
Dibromochloromethane	0.526	0.542		3.04	30
1,2-Dibromoethane	0.469	0.466		-0.64	30
Tetrachloroethene	0.318	0.286		-10.06	30

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

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.: Q1342 SAS No.: Q1342 SDG No.: Q1342

Instrument ID: MSVOA_L Calibration Date/Time: 02/11/2025 09:21

Lab File ID: VL041995.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
Chlorobenzene	0.922	0.898		-2.6	30
Ethyl Benzene	1.563	1.531		-2.05	30
m/p-Xylene	1.253	1.269		1.28	30
o-Xylene	1.243	1.261		1.45	30
Styrene	0.558	0.559		0.18	30
Bromoform	0.432	0.449		3.93	30
1,1,2,2-Tetrachloroethane	0.795	0.820		3.14	30
2-Chlorotoluene	1.423	1.378		-3.16	30
1,3,5-Trimethylbenzene	1.313	1.297		-1.22	30
1,2,4-Trimethylbenzene	1.422	1.413		-0.63	30
1,3-Dichlorobenzene	0.843	0.811		-3.8	30
1,4-Dichlorobenzene	0.825	0.802		-2.79	30
1,2-Dichlorobenzene	0.835	0.812		-2.75	30
1,2,4-Trichlorobenzene	0.699	0.551		-21.17	30
Hexachloro-1,3-Butadiene	0.686	0.545		-20.55	30
1,3-Butadiene	0.539	0.491		-8.9	30
Naphthalene	1.432	1.231		-14.04	30
4-Ethyltoluene	1.487	1.497		0.67	30
1-Bromo-4-Fluorobenzene	0.788	0.790		0.25	30
Hexane	1.281	1.236		-3.51	30
Allyl Chloride	0.832	0.759		-8.77	30
1,4-Dioxane	162.477	158.035		-2.73	30
Methyl Methacrylate	0.341	0.323		-5.28	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\VL021125\
Data File : VL041995.D
Acq On : 11 Feb 2025 09:21
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Feb 11 22:16:18 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	2.780	49	165067	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	461899	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	409502	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	323600	10.033	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	184578	8.209	ppbv	98
3) Chlorodifluoromethane	1.473	51	217978	9.254	ppbv	100
4) Chloromethane	1.531	50	78735	9.311	ppbv	94
5) Vinyl Chloride	1.576	62	75718	8.840	ppbv	100
6) Bromomethane	1.664	94	34751	8.513	ppbv	100
7) Chloroethane	1.699	64	30577	9.176	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	174152	8.863	ppbv	97
9) Propene	1.479	41	86973	8.964	ppbv	98
10) Heptane	4.968	43	249915	9.636	ppbv	99
11) Trichlorofluoromethane	1.874	101	197409	8.440	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.133	101	161792	8.826	ppbv	100
13) Ethanol	1.719	45	4207	5.919	ppbv	98
14) Bromoethene	1.777	108	56091	8.358	ppbv	100
15) Acetone	1.832	43	169197	8.534	ppbv	100
16) 1,3-Butadiene	1.605	39	80979	9.100	ppbv	99
17) tert-Butyl alcohol	2.036	59	194020	7.951	ppbv	99
18) 1,1-Dichloroethene	2.030	96	68340	8.272	ppbv	97
19) Isopropyl Alcohol	1.881	45	100549	8.554	ppbv	97
20) Methylene Chloride	2.055	84	58417	7.456	ppbv	93
21) Allyl Chloride	2.091	41	125320	9.129	ppbv	97
22) trans-1,2-Dichloroethene	2.334	96	81044	8.692	ppbv	95
23) Vinyl Acetate	2.457	43	91374	9.298	ppbv	97
24) 1,1-Dichloroethane	2.402	63	163843	9.085	ppbv	98
25) Ethyl Acetate	2.829	43	526507	9.848	ppbv	99
26) Hexane	2.819	57	204080	9.652	ppbv	95
27) Carbon Disulfide	2.146	76	194622	9.301	ppbv	99
28) Methyl tert-Butyl Ether	2.437	73	129783	8.030	ppbv	100
29) Chloroform	2.842	83	315379	9.436	ppbv	99
30) Cyclohexane	3.848	84	171649	9.359	ppbv	99
31) cis-1,2-Dichloroethene	2.716	61	196842	8.841	ppbv	91
32) 1,1,1-Trichloroethane	3.360	97	293390	9.173	ppbv	99
34) 2-Butanone	2.554	43	295348	10.055	ppbv	99
35) Carbon Tetrachloride	3.751	117	295193	10.174	ppbv	99
36) Benzene	3.648	78	411802	9.720	ppbv	98
37) 1,2-Dichloroethane	3.211	62	229357	9.640	ppbv	99
38) Trichloroethene	4.538	130	164845	9.805	ppbv	97
39) 1,2-Dichloropropane	4.305	63	149071	10.031	ppbv	99
40) 1,4-Dioxane	4.573	88	72996	9.727	ppbv #	96
41) Tetrahydrofuran	3.049	42	168274	10.541	ppbv	96
42) Bromodichloromethane	4.476	83	315744	9.897	ppbv	96
43) Methyl Methacrylate	4.868	69	149235	9.482	ppbv	96
44) 2,2,4-Trimethylpentane	4.629	57	698939	10.200	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	138557	9.406	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041995.D
Acq On : 11 Feb 2025 09:21
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Feb 11 22:16:18 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

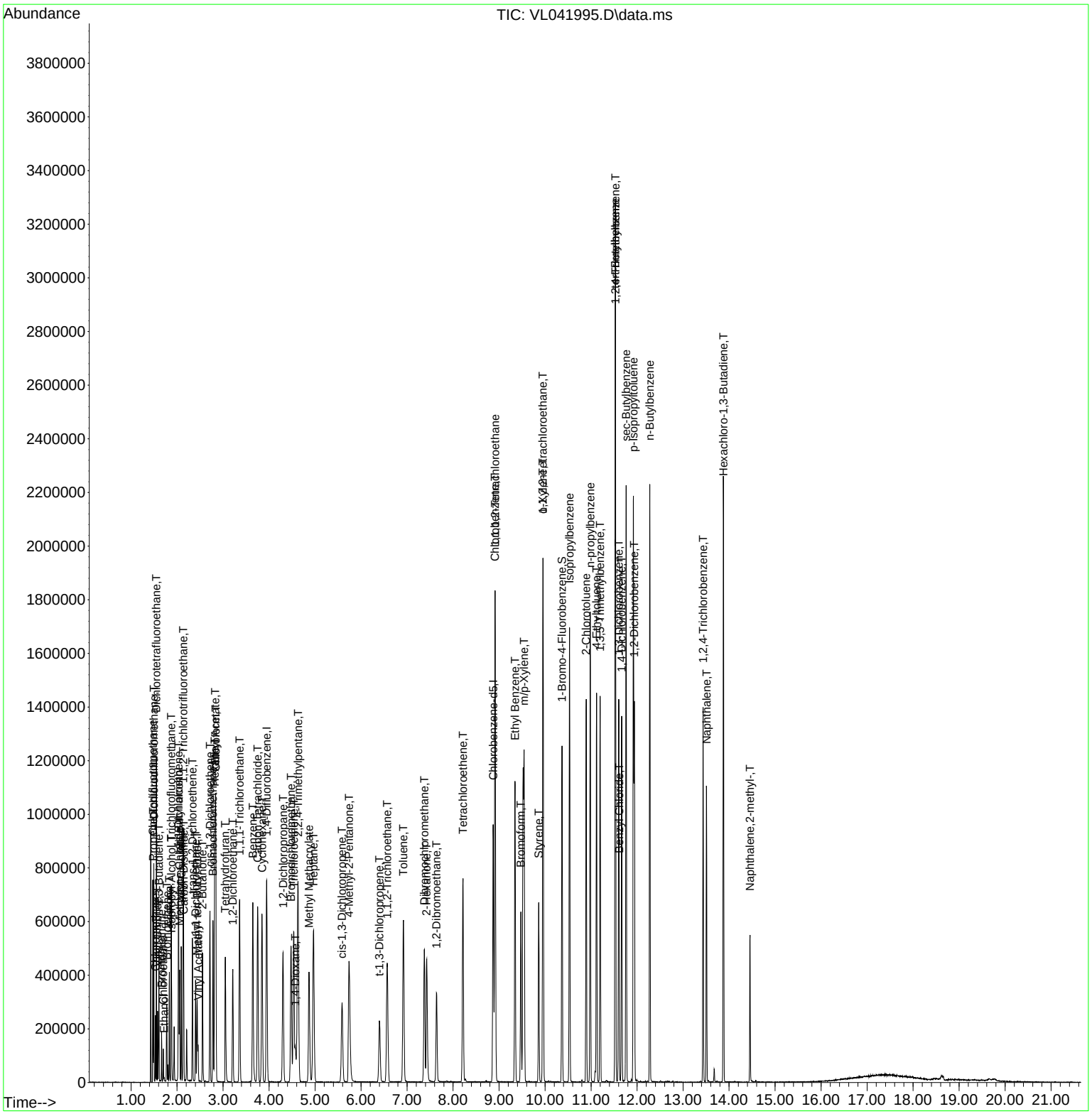
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	188644	9.753	ppbv		98
47) 1,1,2-Trichloroethane	6.567	97	158381	10.056	ppbv		96
48) Dibromochloromethane	7.376	129	250346	10.302	ppbv		99
49) Bromoform	9.474	173	207303	10.385	ppbv		99
50) 4-Methyl-2-Pentanone	5.739	43	409441	10.210	ppbv		99
51) 2-Hexanone	7.425	43	314376	10.203	ppbv	#	96
52) Tetrachloroethene	8.215	164	131972	8.984	ppbv		94
53) Toluene	6.920	91	455647	9.874	ppbv		99
54) 1,2-Dibromoethane	7.639	107	215163	9.937	ppbv		95
56) 1,1,1,2-Tetrachloroethane	8.914	131	207137	10.139	ppbv		99
57) Chlorobenzene	8.911	112	367808	9.737	ppbv		99
58) Ethyl Benzene	9.348	91	626798	9.794	ppbv		98
59) m/p-Xylene	9.542	91	1039345m	20.261	ppbv		
60) o-Xylene	9.953	91	516475	10.144	ppbv		99
61) Styrene	9.862	104	228821	10.018	ppbv		99
62) Isopropylbenzene	10.532	105	780031	9.900	ppbv		100
63) 1,1,2,2-Tetrachloroethane	9.953	83	335938	10.325	ppbv		100
64) n-propylbenzene	10.982	120	198421	9.967	ppbv		99
65) tert-Butylbenzene	11.526	119	706366	9.838	ppbv		99
66) Benzyl Chloride	11.610	91	40436	9.099	ppbv		97
67) sec-Butylbenzene	11.762	105	980941	9.922	ppbv		99
69) p-Isopropyltoluene	11.921	119	799390	9.819	ppbv		99
70) n-Butylbenzene	12.277	91	788018	9.760	ppbv		99
71) 2-Chlorotoluene	10.895	91	564442	9.685	ppbv		99
72) 4-Ethyltoluene	11.118	105	613118	10.067	ppbv		100
73) 1,3,5-Trimethylbenzene	11.196	105	531202	9.877	ppbv		97
74) 1,2,4-Trimethylbenzene	11.532	105	578544	9.933	ppbv	#	88
75) 1,3-Dichlorobenzene	11.600	146	332173	9.624	ppbv		98
76) 1,4-Dichlorobenzene	11.665	146	328424	9.726	ppbv		99
77) 1,2-Dichlorobenzene	11.940	146	332574	9.722	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	223042	7.944	ppbv		98
79) Naphthalene	13.510	128	504119	8.596	ppbv		99
80) Naphthalene,2-methyl-	14.455	142	144752	5.206	ppbv		97
81) 1,2,4-Trichlorobenzene	13.435	180	225437	7.875	ppbv		98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041995.D
Acq On : 11 Feb 2025 09:21
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: Feb 11 22:16:18 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



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041995.D
Acq On : 11 Feb 2025 09:21
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 11 22:16:18 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	108	-0.02
2	T	Dichlorodifluoromethane	1.362	1.118	17.9	93	0.00
3		Chlorodifluoromethane	1.427	1.321	7.4	108	0.00
4		Chloromethane	0.512	0.477	6.8	105	0.00
5	T	Vinyl Chloride	0.519	0.459	11.6	107	0.00
6	T	Bromomethane	0.247	0.211	14.6	100	0.00
7		Chloroethane	0.202	0.185	8.4	104	0.00
8	T	Dichlorotetrafluoroethane	1.190	1.055	11.3	104	0.00
9	T	Propene	0.588	0.527	10.4	100	0.00
10	T	Heptane	1.571	1.514	3.6	107	-0.03
11	T	Trichlorofluoromethane	1.417	1.196	15.6	97	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.110	0.980	11.7	100	-0.01
13		Ethanol	0.043	0.025#	41.9#	101	0.00
14	T	Bromoethene	0.407	0.340	16.5	99	0.00
15	T	Acetone	1.201	1.025	14.7	112	0.00
16	T	1,3-Butadiene	0.539	0.491	8.9	108	0.00
17		tert-Butyl alcohol	1.478	1.175	20.5	91	0.00
18	T	1,1-Dichloroethene	0.501	0.414	17.4	98	0.00
19	T	Isopropyl Alcohol	0.712	0.609	14.5	106	0.00
20	T	Methylene Chloride	0.475	0.354	25.5	98	-0.01
21	T	Allyl Chloride	0.832	0.759	8.8	104	0.00
22	T	trans-1,2-Dichloroethene	0.565	0.491	13.1	98	-0.01
23	T	Vinyl Acetate	0.595	0.554	6.9	112	-0.01
24	T	1,1-Dichloroethane	1.093	0.993	9.1	106	-0.02
25	T	Ethyl Acetate	3.239	3.190	1.5	112	-0.02
26	T	Hexane	1.281	1.236	3.5	106	-0.02
27	T	Carbon Disulfide	1.268	1.179	7.0	102	0.00
28	T	Methyl tert-Butyl Ether	0.979	0.786	19.7	110	-0.01
29	T	Chloroform	2.025	1.911	5.6	108	-0.02
30	T	Cyclohexane	1.111	1.040	6.4	104	-0.02
31	T	cis-1,2-Dichloroethene	1.349	1.192	11.6	102	-0.01
32	T	1,1,1-Trichloroethane	1.938	1.777	8.3	101	-0.02
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	-0.03
34	T	2-Butanone	0.636	0.639	-0.5	109	-0.01
35	T	Carbon Tetrachloride	0.628	0.639	-1.8	101	-0.03
36	T	Benzene	0.917	0.892	2.7	104	-0.02
37	T	1,2-Dichloroethane	0.515	0.497	3.5	104	-0.02
38	T	Trichloroethene	0.364	0.357	1.9	104	-0.03
39	T	1,2-Dichloropropane	0.322	0.323	-0.3	109	-0.03
40	T	1,4-Dioxane	0.162	0.158	2.5	110	-0.03
41	T	Tetrahydrofuran	0.346	0.364	-5.2	108	-0.02
42	T	Bromodichloromethane	0.691	0.684	1.0	103	-0.03
43		Methyl Methacrylate	0.341	0.323	5.3	98	-0.03
44	T	2,2,4-Trimethylpentane	1.484	1.513	-2.0	107	-0.03
45	T	t-1,3-Dichloropropene	0.319	0.300	6.0	91	-0.04
46	T	cis-1,3-Dichloropropene	0.419	0.408	2.6	94	-0.04
47	T	1,1,2-Trichloroethane	0.341	0.343	-0.6	106	-0.03
48	T	Dibromochloromethane	0.526	0.542	-3.0	102	-0.03

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041995.D
Acq On : 11 Feb 2025 09:21
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 11 22:16:18 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	0.449	-3.9	100	-0.02
50	T	4-Methyl-2-Pentanone	0.868	0.886	-2.1	109	-0.04
51	T	2-Hexanone	0.667	0.681	-2.1	107	-0.03
52	T	Tetrachloroethene	0.318	0.286	10.1	100	-0.03
53	T	Toluene	0.999	0.986	1.3	100	-0.03
54	T	1,2-Dibromoethane	0.469	0.466	0.6	106	-0.03
55	I	Chlorobenzene-d5	1.000	1.000	0.0	102	-0.02
56		1,1,1,2-Tetrachloroethane	0.499	0.506	-1.4	108	-0.03
57	T	Chlorobenzene	0.922	0.898	2.6	108	-0.03
58	T	Ethyl Benzene	1.563	1.531	2.0	101	-0.02
59	T	m/p-Xylene	1.253	1.269	-1.3	106	-0.02
60	T	o-Xylene	1.243	1.261	-1.4	105	-0.03
61	T	Styrene	0.558	0.559	-0.2	97	-0.02
62		Isopropylbenzene	1.924	1.905	1.0	105	-0.02
63	T	1,1,2,2-Tetrachloroethane	0.795	0.820	-3.1	112	-0.02
64		n-propylbenzene	0.486	0.485	0.2	106	-0.02
65		tert-Butylbenzene	1.753	1.725	1.6	105	-0.02
66	T	Benzyl Chloride	0.109	0.099	9.2	88	-0.02
67		sec-Butylbenzene	2.414	2.395	0.8	107	-0.02
68	S	1-Bromo-4-Fluorobenzene	0.788	0.790	-0.3	103	-0.02
69		p-Isopropyltoluene	1.988	1.952	1.8	104	-0.02
70		n-Butylbenzene	1.972	1.924	2.4	104	-0.02
71		2-Chlorotoluene	1.423	1.378	3.2	101	-0.02
72	T	4-Ethyltoluene	1.487	1.497	-0.7	105	-0.02
73	T	1,3,5-Trimethylbenzene	1.313	1.297	1.2	105	-0.02
74	T	1,2,4-Trimethylbenzene	1.422	1.413	0.6	107	-0.02
75	T	1,3-Dichlorobenzene	0.843	0.811	3.8	107	-0.02
76	T	1,4-Dichlorobenzene	0.825	0.802	2.8	107	-0.02
77	T	1,2-Dichlorobenzene	0.835	0.812	2.8	110	-0.02
78	T	Hexachloro-1,3-Butadiene	0.686	0.545	20.6	95	-0.02
79	T	Naphthalene	1.432	1.231	14.0	100	-0.02
80	T	Naphthalene,2-methyl-	0.679	0.353	48.0#	78	-0.02
81	T	1,2,4-Trichlorobenzene	0.699	0.551	21.2	94	-0.02

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

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041995.D
Acq On : 11 Feb 2025 09:21
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
LabSampleId :
VSTDCCC010

Quant Time: Feb 11 22:16:18 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	108	-0.02
2	T	Dichlorodifluoromethane	10.000	8.209	17.9	93	0.00
3		Chlorodifluoromethane	10.000	9.254	7.5	108	0.00
4		Chloromethane	10.000	9.311	6.9	105	0.00
5	T	Vinyl Chloride	10.000	8.840	11.6	107	0.00
6	T	Bromomethane	10.000	8.513	14.9	100	0.00
7		Chloroethane	10.000	9.176	8.2	104	0.00
8	T	Dichlorotetrafluoroethane	10.000	8.863	11.4	104	0.00
9	T	Propene	10.000	8.964	10.4	100	0.00
10	T	Heptane	10.000	9.636	3.6	107	-0.03
11	T	Trichlorofluoromethane	10.000	8.440	15.6	97	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	8.826	11.7	100	-0.01
13		Ethanol	10.000	5.919	40.8#	101	0.00
14	T	Bromoethene	10.000	8.358	16.4	99	0.00
15	T	Acetone	10.000	8.534	14.7	112	0.00
16	T	1,3-Butadiene	10.000	9.100	9.0	108	0.00
17		tert-Butyl alcohol	10.000	7.951	20.5	91	0.00
18	T	1,1-Dichloroethene	10.000	8.272	17.3	98	0.00
19	T	Isopropyl Alcohol	10.000	8.554	14.5	106	0.00
20	T	Methylene Chloride	10.000	7.456	25.4	98	-0.01
21	T	Allyl Chloride	10.000	9.129	8.7	104	0.00
22	T	trans-1,2-Dichloroethene	10.000	8.692	13.1	98	-0.01
23	T	Vinyl Acetate	10.000	9.298	7.0	112	-0.01
24	T	1,1-Dichloroethane	10.000	9.085	9.1	106	-0.02
25	T	Ethyl Acetate	10.000	9.848	1.5	112	-0.02
26	T	Hexane	10.000	9.652	3.5	106	-0.02
27	T	Carbon Disulfide	10.000	9.301	7.0	102	0.00
28	T	Methyl tert-Butyl Ether	10.000	8.030	19.7	110	-0.01
29	T	Chloroform	10.000	9.436	5.6	108	-0.02
30	T	Cyclohexane	10.000	9.359	6.4	104	-0.02
31	T	cis-1,2-Dichloroethene	10.000	8.841	11.6	102	-0.01
32	T	1,1,1-Trichloroethane	10.000	9.173	8.3	101	-0.02
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	103	-0.03
34	T	2-Butanone	10.000	10.055	-0.5	109	-0.01
35	T	Carbon Tetrachloride	10.000	10.174	-1.7	101	-0.03
36	T	Benzene	10.000	9.720	2.8	104	-0.02
37	T	1,2-Dichloroethane	10.000	9.640	3.6	104	-0.02
38	T	Trichloroethene	10.000	9.805	2.0	104	-0.03
39	T	1,2-Dichloropropane	10.000	10.031	-0.3	109	-0.03
40	T	1,4-Dioxane	10.000	9.727	2.7	110	-0.03
41	T	Tetrahydrofuran	10.000	10.541	-5.4	108	-0.02
42	T	Bromodichloromethane	10.000	9.897	1.0	103	-0.03
43		Methyl Methacrylate	10.000	9.482	5.2	98	-0.03
44	T	2,2,4-Trimethylpentane	10.000	10.200	-2.0	107	-0.03
45	T	t-1,3-Dichloropropene	10.000	9.406	5.9	91	-0.04
46	T	cis-1,3-Dichloropropene	10.000	9.753	2.5	94	-0.04
47	T	1,1,2-Trichloroethane	10.000	10.056	-0.6	106	-0.03
48	T	Dibromochloromethane	10.000	10.302	-3.0	102	-0.03

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041995.D
Acq On : 11 Feb 2025 09:21
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
LabSampleId : VSTDCCC010

Quant Time: Feb 11 22:16:18 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	10.385	-3.8	100	-0.02
50	T	4-Methyl-2-Pentanone	10.000	10.210	-2.1	109	-0.04
51	T	2-Hexanone	10.000	10.203	-2.0	107	-0.03
52	T	Tetrachloroethene	10.000	8.984	10.2	100	-0.03
53	T	Toluene	10.000	9.874	1.3	100	-0.03
54	T	1,2-Dibromoethane	10.000	9.937	0.6	106	-0.03
55	I	Chlorobenzene-d5	10.000	10.000	0.0	102	-0.02
56		1,1,1,2-Tetrachloroethane	10.000	10.139	-1.4	108	-0.03
57	T	Chlorobenzene	10.000	9.737	2.6	108	-0.03
58	T	Ethyl Benzene	10.000	9.794	2.1	101	-0.02
59	T	m/p-Xylene	20.000	20.261	-1.3	106	-0.02
60	T	o-Xylene	10.000	10.144	-1.4	105	-0.03
61	T	Styrene	10.000	10.018	-0.2	97	-0.02
62		Isopropylbenzene	10.000	9.900	1.0	105	-0.02
63	T	1,1,2,2-Tetrachloroethane	10.000	10.325	-3.2	112	-0.02
64		n-propylbenzene	10.000	9.967	0.3	106	-0.02
65		tert-Butylbenzene	10.000	9.838	1.6	105	-0.02
66	T	Benzyl Chloride	10.000	9.099	9.0	88	-0.02
67		sec-Butylbenzene	10.000	9.922	0.8	107	-0.02
68	S	1-Bromo-4-Fluorobenzene	10.000	10.033	-0.3	103	-0.02
69		p-Isopropyltoluene	10.000	9.819	1.8	104	-0.02
70		n-Butylbenzene	10.000	9.760	2.4	104	-0.02
71		2-Chlorotoluene	10.000	9.685	3.1	101	-0.02
72	T	4-Ethyltoluene	10.000	10.067	-0.7	105	-0.02
73	T	1,3,5-Trimethylbenzene	10.000	9.877	1.2	105	-0.02
74	T	1,2,4-Trimethylbenzene	10.000	9.933	0.7	107	-0.02
75	T	1,3-Dichlorobenzene	10.000	9.624	3.8	107	-0.02
76	T	1,4-Dichlorobenzene	10.000	9.726	2.7	107	-0.02
77	T	1,2-Dichlorobenzene	10.000	9.722	2.8	110	-0.02
78	T	Hexachloro-1,3-Butadiene	10.000	7.944	20.6	95	-0.02
79	T	Naphthalene	10.000	8.596	14.0	100	-0.02
80	T	Naphthalene,2-methyl-	10.000	5.206	47.9#	78	-0.02
81	T	1,2,4-Trichlorobenzene	10.000	7.875	21.3	94	-0.02

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

QC SAMPLE DATA

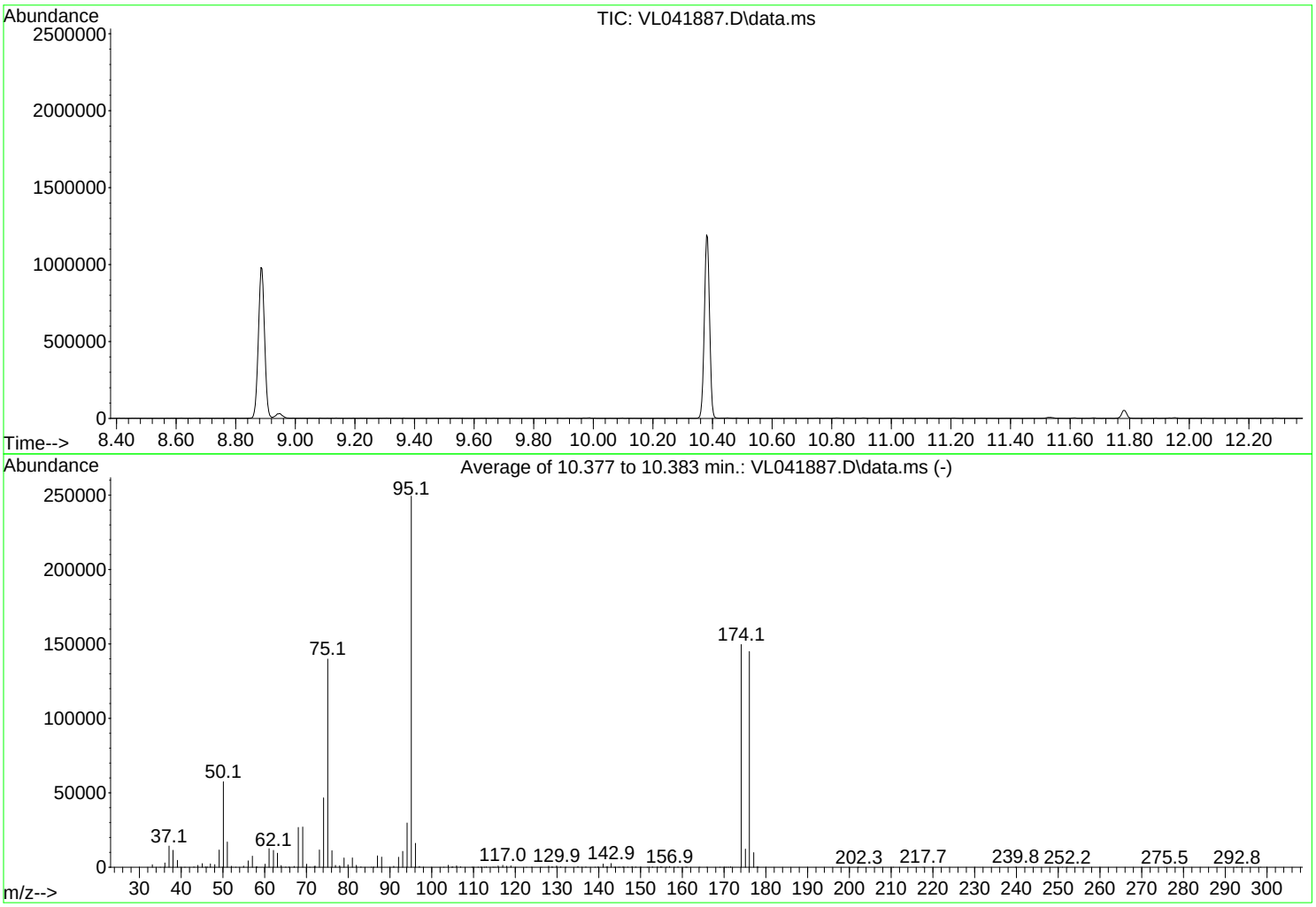
BFB

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						

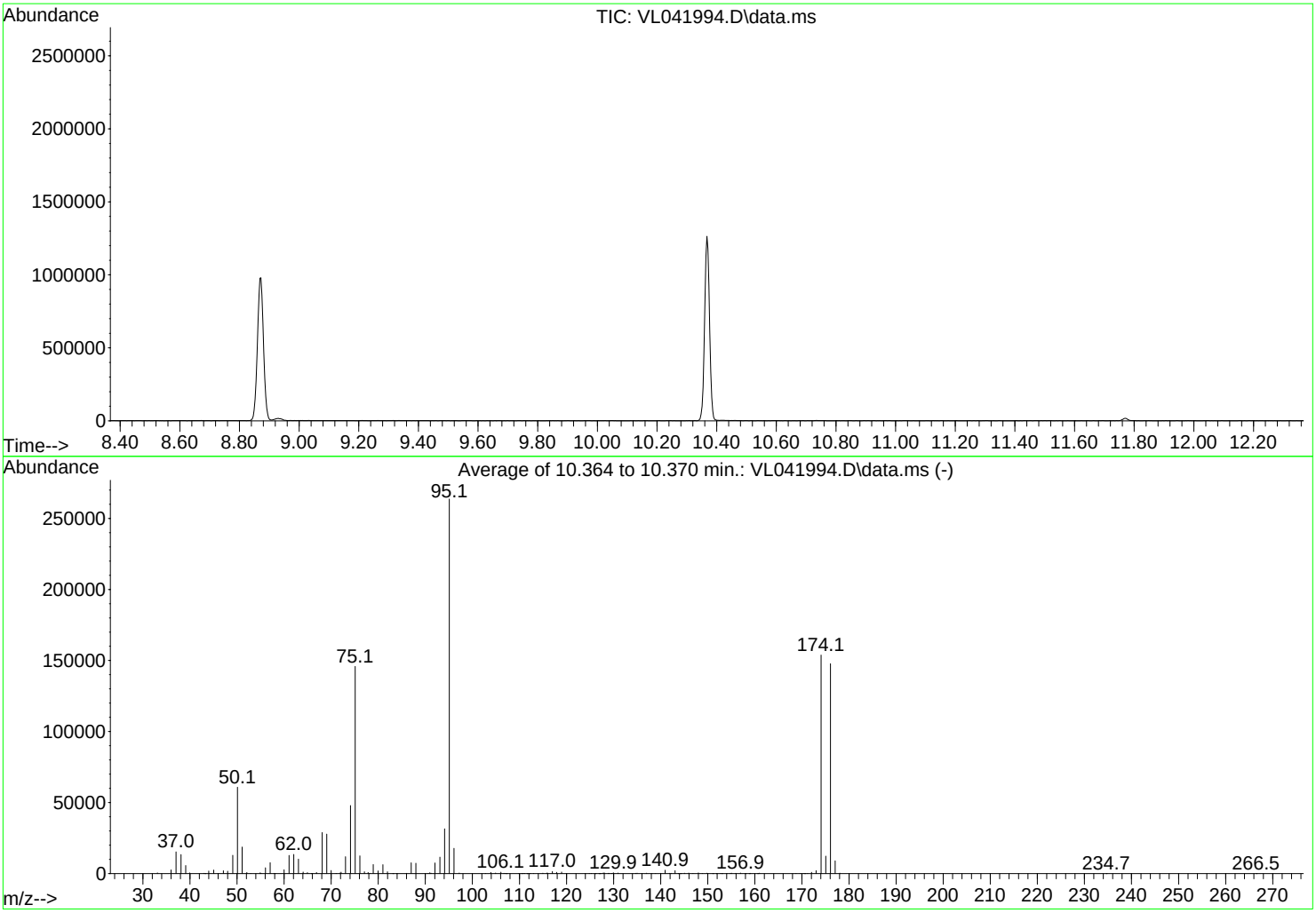
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041994.D
Acq On : 11 Feb 2025 08:38
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\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 3175, 3176, 3177; Background Corrected with Scan 3153

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.1	60800	PASS
75	95	30	66	55.3	145813	PASS
95	95	100	100	100.0	263701	PASS
96	95	5	9	6.8	17853	PASS
173	174	0.00	2	1.4	2101	PASS
174	95	50	120	58.4	153877	PASS
175	174	4	9	8.0	12298	PASS
176	174	93	101	96.0	147797	PASS
177	176	5	9	6.1	8993	PASS

Average of 10.364 to 10.370 min.: VL041994.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	554	47.10	2025	57.90	190	68.10	2891
36.00	2562	48.00	1713	58.20	104	69.05	2777
37.05	15267	49.10	12910	60.00	2691	70.00	222
38.10	13414	50.10	60800	61.05	12782	71.05	7
39.10	5676	51.10	18693	62.05	13525	71.90	424
39.95	478	52.10	857	63.05	10202	72.10	1035
42.95	184	52.90	78	64.05	1152	73.05	11946
43.20	32	54.90	550	64.95	692	74.10	47901
44.00	1806	55.10	328	65.80	35	75.10	145813
45.05	2512	56.05	4067	66.05	128	76.10	12517
46.05	159	57.05	7674	66.90	833	77.05	1353

Instrument :
MSVOA_L
ClientSampleId :
BFB

Average of 10.364 to 10.370 min.: VL041994.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.85	831	90.60	92	104.95	411	112.10	63
78.20	204	90.95	568	106.05	976	113.00	159
78.95	6416	91.20	273	106.70	172	114.95	352
79.95	1918	92.05	7528	107.00	67	115.80	372
81.00	6288	93.10	11606	107.20	58	116.00	327
81.95	1279	94.10	31504	109.85	83	117.00	1543
83.10	43	95.10	263701	110.50	57	117.90	956
83.90	28	96.10	17853	110.90	83	118.95	1131
86.00	188	97.20	379	111.10	82	123.95	143
87.00	7614	102.80	110	111.60	28	124.85	126
88.00	7294	103.90	833	111.80	104	125.25	70

Average of 10.364 to 10.370 min.: VL041994.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.10	18	135.00	346	144.20	17	154.05	106
126.90	33	136.05	125	145.05	256	154.80	163
127.10	41	137.00	320	145.95	395	155.05	327
127.80	421	138.15	69	146.85	154	155.95	169
128.00	525	138.90	145	148.00	500	156.95	433
128.85	222	140.00	186	148.85	158	157.90	25
129.10	168	140.95	2379	149.85	267	158.15	115
129.60	150	141.90	218	151.05	63	158.80	58
129.95	653	142.20	175	151.85	53	159.00	197
130.95	458	143.05	2130	152.70	65	160.60	40
134.70	162	143.70	29	153.00	54	161.00	299

Average of 10.364 to 10.370 min.: VL041994.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.75	91	178.05	274				
169.65	70	234.65	57				
170.40	90	266.50	29				
170.60	35						
171.20	153						
172.05	926						
173.00	2101						
174.05	153877						
175.05	12298						
176.05	147797						
177.05	8993						

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

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	315 W. 106th St NY, NY	Date Received:	
Client Sample ID:	VL0211ABL01	SDG No.:	Q1342
Lab Sample ID:	VL0211ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041996.D	1		02/11/25 10:06	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

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Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	315 W. 106th St NY, NY	Date Received:	
Client Sample ID:	VL0211ABL01	SDG No.:	Q1342
Lab Sample ID:	VL0211ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041996.D	1		02/11/25 10:06	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	168000		2.781			
540-36-3	1,4-Difluorobenzene	460000		3.952			
3114-55-4	Chlorobenzene-d5	395000		8.872			

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Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	315 W. 106th St NY, NY	Date Received:	
Client Sample ID:	VL0211ABL01	SDG No.:	Q1342
Lab Sample ID:	VL0211ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041996.D	1		02/11/25 10:06	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL021125\
Data File : VL041996.D
Acq On : 11 Feb 2025 10:06
Operator : SY/MD
Sample : VL0211ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0211ABL01

Quant Time: Feb 11 22:17:16 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

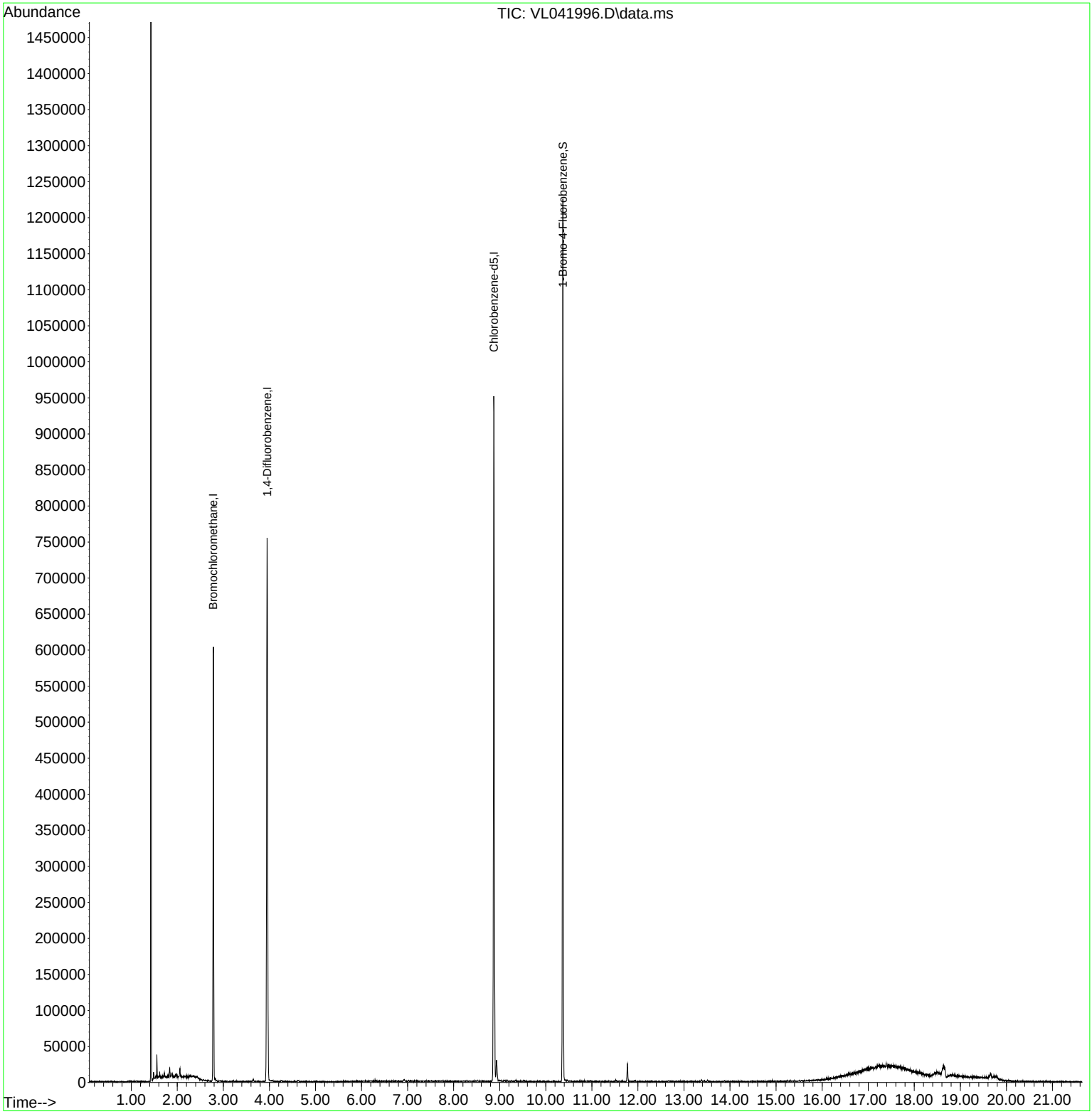
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.781	49	167703	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.952	114	459653	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.872	117	395237	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	306745	9.854	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.500%			
Target Compounds						Qvalue

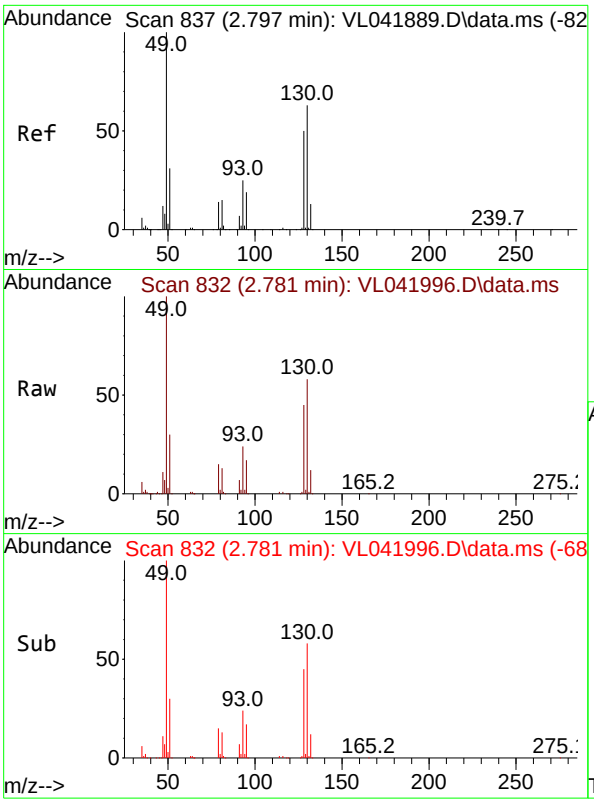
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041996.D
Acq On : 11 Feb 2025 10:06
Operator : SY/MD
Sample : VL0211ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0211ABL01

Quant Time: Feb 11 22:17:16 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



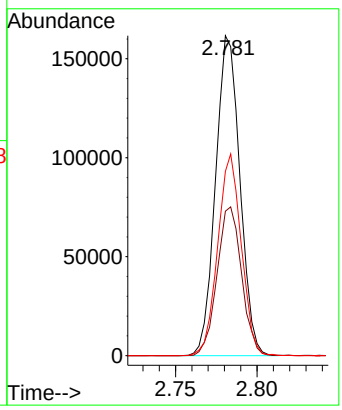


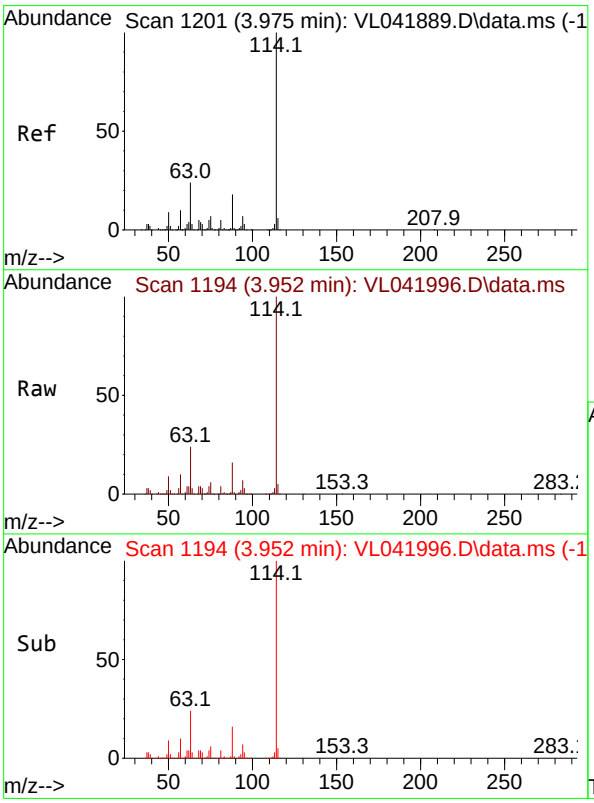
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 8
Delta R.T. -0.016 min
Lab File: VL041996.D
Acq: 11 Feb 2025 10:06

Instrument :
MSVOA_L
ClientSampleId :
VL0211ABL01

Tgt Ion: 49 Resp: 167703

Ion	Ratio	Lower	Upper
49	100		
128	46.9	24.3	73.0
130	60.9	31.1	93.2

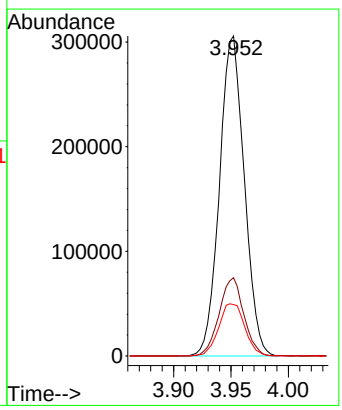


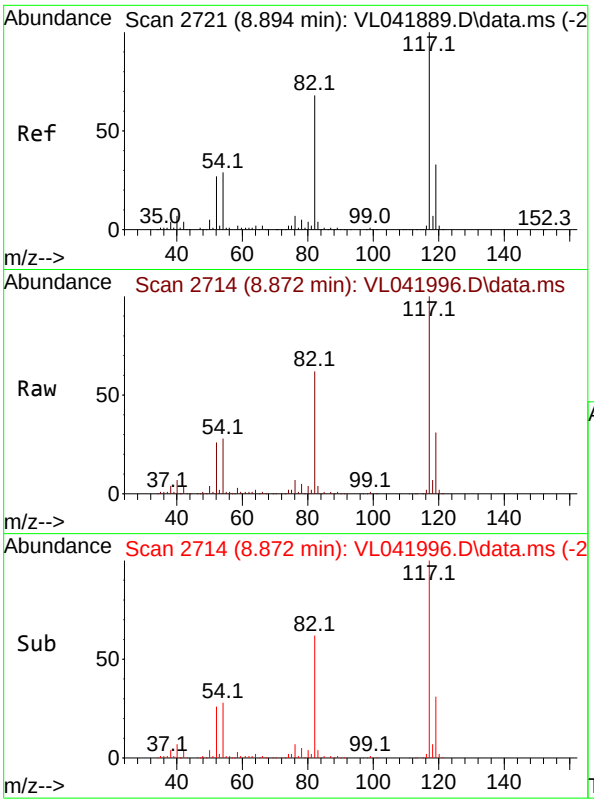


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.023 min
Lab File: VL041996.D
Acq: 11 Feb 2025 10:06

Tgt Ion:114 Resp: 459653

Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.8	29.6
88	17.2	14.4	21.6



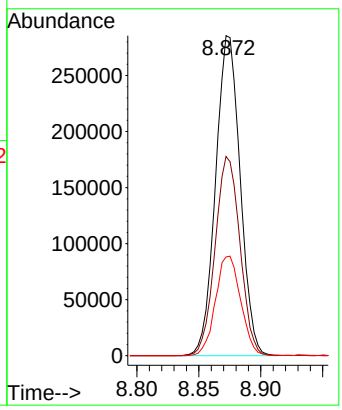


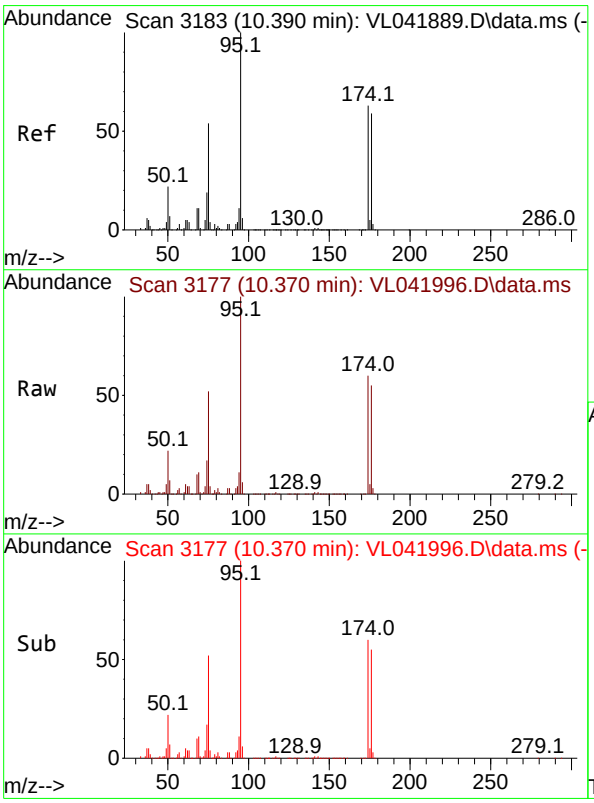
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL041996.D
Acq: 11 Feb 2025 10:06

Instrument :
MSVOA_L
ClientSampleId :
VL0211ABL01

Tgt Ion:117 Resp: 395237

Ion	Ratio	Lower	Upper
117	100		
82	63.0	54.2	81.4
119	31.9	25.0	37.6

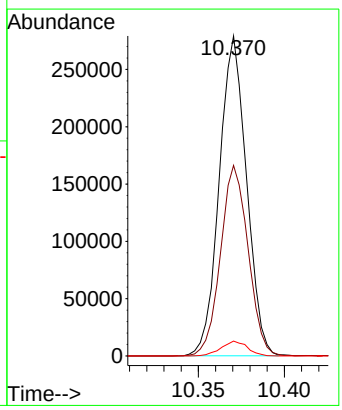




#68
1-Bromo-4-Fluorobenzene
Concen: 9.854 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.019 min
Lab File: VL041996.D
Acq: 11 Feb 2025 10:06

Tgt Ion: 95 Resp: 306745

Ion	Ratio	Lower	Upper
95	100		
174	60.7	49.0	73.4
175	4.5	3.8	5.8



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Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	315 W. 106th St NY, NY	Date Received:	
Client Sample ID:	VL0211ABS01	SDG No.:	Q1342
Lab Sample ID:	VL0211ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041997.D	1		02/11/25 10:50	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5		1.04	2.47	ug/m3
74-87-3	Chloromethane	9.60	19.8		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.10	23.3		0.030	0.080	ug/m3
74-83-9	Bromomethane	9.00	35.0		0.54	1.94	ug/m3
75-00-3	Chloroethane	9.70	25.6		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	10.9	32.1		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	8.70	48.9		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.10	69.8		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.00	62.9		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	8.10	24.6		0.58	1.52	ug/m3
142-82-5	Heptane	10.2	41.8		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.30	32.9		0.56	1.98	ug/m3
67-64-1	Acetone	8.80	20.9		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	9.50	29.6		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.40	30.3		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	7.80	27.1		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.80	34.9		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.40	38.0		0.53	2.02	ug/m3
110-82-7	Cyclohexane	9.40	32.4		0.76	1.72	ug/m3
78-93-3	2-Butanone	10.6	31.3		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.6	66.7		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.10	36.1		0.36	1.98	ug/m3
67-66-3	Chloroform	9.50	46.4		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.50	51.8		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.6	49.5		0.47	2.34	ug/m3
71-43-2	Benzene	10.2	32.6		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	9.90	40.1		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.0	53.7		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	10.2	47.1		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	10.2	68.3		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	10.3	42.2		0.37	2.05	ug/m3
108-88-3	Toluene	10.2	38.4		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.60	43.6		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10.1	45.9		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.5	57.3		0.38	2.73	ug/m3

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Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	315 W. 106th St NY, NY	Date Received:	
Client Sample ID:	VL0211ABS01	SDG No.:	Q1342
Lab Sample ID:	VL0211ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041997.D	1		02/11/25 10:50	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.6	90.3		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	10.3	79.2		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	9.40	63.7		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.1	46.5		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	10.1	43.9		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	20.9	90.8		0.91	4.34	ug/m3
95-47-6	o-Xylene	10.6	46.0		0.52	2.17	ug/m3
100-42-5	Styrene	10.3	43.9		0.47	2.13	ug/m3
75-25-2	Bromoform	10.7	111		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.8	74.2		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	10.1	52.3		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.1	49.6		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.2	50.1		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10.0	60.1		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	10.0	60.1		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.0	60.1		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.10	60.1		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.50	90.7		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	9.60	21.2		0.29	1.11	ug/m3
91-20-3	Naphthalene	8.90	46.6		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	10.2	50.1		0.59	2.46	ug/m3
110-54-3	Hexane	9.90	34.9		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	9.30	29.1		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	10.4	37.5		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	9.90	40.5		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	161000		2.78			
540-36-3	1,4-Difluorobenzene	446000		3.949			
3114-55-4	Chlorobenzene-d5	396000		8.872			

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Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	315 W. 106th St NY, NY	Date Received:	
Client Sample ID:	VL0211ABS01	SDG No.:	Q1342
Lab Sample ID:	VL0211ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041997.D	1		02/11/25 10:50	VL021125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

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\VL021125\
Data File : VL041997.D
Acq On : 11 Feb 2025 10:50
Operator : SY/MD
Sample : VL0211ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0211ABS01

Quant Time: Feb 11 22:17:38 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	2.780	49	161308	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	446315	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	395917	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	312995	10.037	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	184613	8.402	ppbv	99
3) Chlorodifluoromethane	1.473	51	216666	9.413	ppbv	99
4) Chloromethane	1.531	50	79718	9.647	ppbv	97
5) Vinyl Chloride	1.576	62	76421	9.130	ppbv	100
6) Bromomethane	1.664	94	35774	8.968	ppbv	91
7) Chloroethane	1.699	64	31606	9.705	ppbv	97
8) Dichlorotetrafluoroethane	1.551	85	173737	9.048	ppbv	100
9) Propene	1.483	41	88949	9.381	ppbv	98
10) Heptane	4.965	43	258397	10.195	ppbv	98
11) Trichlorofluoromethane	1.874	101	199153	8.713	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.133	101	162522	9.073	ppbv	99
13) Ethanol	1.719	45	4358	6.275	ppbv	95
14) Bromoethene	1.777	108	56642	8.636	ppbv	99
15) Acetone	1.832	43	169851	8.767	ppbv	99
16) 1,3-Butadiene	1.606	39	83262	9.575	ppbv	98
17) tert-Butyl alcohol	2.036	59	194019	8.137	ppbv	97
18) 1,1-Dichloroethene	2.030	96	67380	8.346	ppbv	97
19) Isopropyl Alcohol	1.884	45	99738	8.682	ppbv #	36
20) Methylene Chloride	2.055	84	59645	7.790	ppbv	96
21) Allyl Chloride	2.091	41	124715	9.296	ppbv	98
22) trans-1,2-Dichloroethene	2.334	96	80599	8.845	ppbv	92
23) Vinyl Acetate	2.457	43	93090	9.693	ppbv #	98
24) 1,1-Dichloroethane	2.402	63	165710	9.402	ppbv	97
25) Ethyl Acetate	2.832	43	527204	10.091	ppbv	99
26) Hexane	2.819	57	205220	9.932	ppbv	95
27) Carbon Disulfide	2.146	76	195192	9.546	ppbv	99
28) Methyl tert-Butyl Ether	2.437	73	132634	8.398	ppbv	98
29) Chloroform	2.842	83	310248	9.498	ppbv	98
30) Cyclohexane	3.849	84	169062	9.433	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	198315	9.115	ppbv	93
32) 1,1,1-Trichloroethane	3.360	97	297110	9.506	ppbv	99
34) 2-Butanone	2.554	43	299866	10.565	ppbv	99
35) Carbon Tetrachloride	3.755	117	296944	10.592	ppbv	98
36) Benzene	3.648	78	418876	10.233	ppbv	99
37) 1,2-Dichloroethane	3.211	62	228142	9.924	ppbv	99
38) Trichloroethene	4.541	130	162897	10.028	ppbv	97
39) 1,2-Dichloropropane	4.305	63	146187	10.181	ppbv	97
40) 1,4-Dioxane	4.574	88	75080	10.354	ppbv #	99
41) Tetrahydrofuran	3.049	42	168345	10.913	ppbv	97
42) Bromodichloromethane	4.480	83	315265	10.228	ppbv	97
43) Methyl Methacrylate	4.868	69	150766	9.914	ppbv	99
44) 2,2,4-Trimethylpentane	4.629	57	702943	10.617	ppbv	98
45) t-1,3-Dichloropropene	6.405	75	137007	9.625	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041997.D
Acq On : 11 Feb 2025 10:50
Operator : SY/MD
Sample : VL0211ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0211ABS01

Quant Time: Feb 11 22:17:38 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

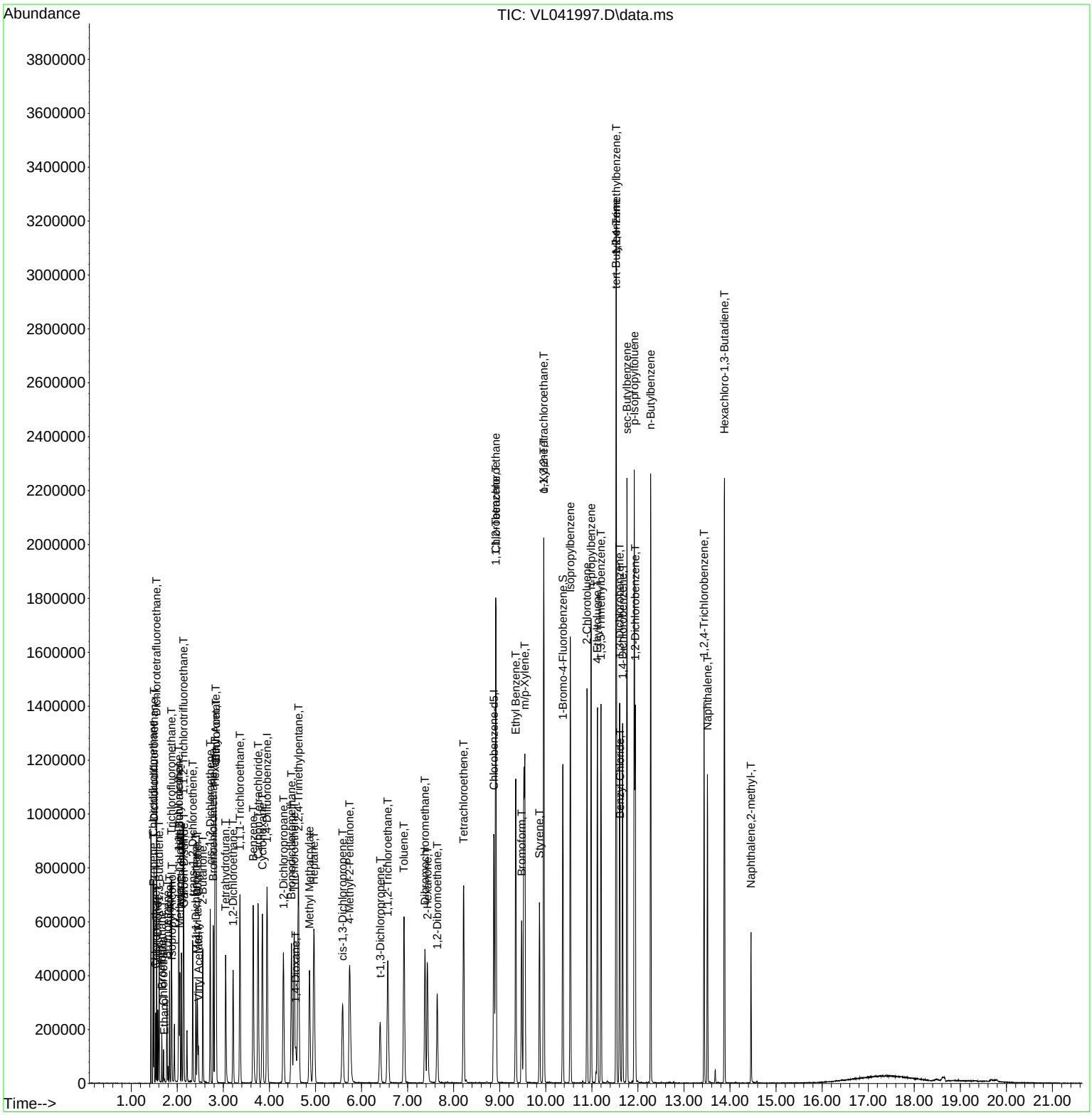
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	188032	10.061	ppbv		98
47) 1,1,2-Trichloroethane	6.571	97	159732	10.496	ppbv		97
48) Dibromochloromethane	7.376	129	247725	10.550	ppbv		99
49) Bromoform	9.477	173	205724	10.665	ppbv		100
50) 4-Methyl-2-Pentanone	5.739	43	400504	10.336	ppbv		99
51) 2-Hexanone	7.431	43	308477	10.361	ppbv	#	96
52) Tetrachloroethene	8.218	164	133576	9.411	ppbv		98
53) Toluene	6.920	91	454404	10.191	ppbv		99
54) 1,2-Dibromoethane	7.642	107	214575	10.256	ppbv		97
56) 1,1,1,2-Tetrachloroethane	8.917	131	205976	10.428	ppbv		100
57) Chlorobenzene	8.914	112	369725	10.124	ppbv		97
58) Ethyl Benzene	9.348	91	626124	10.119	ppbv		100
59) m/p-Xylene	9.545	91	1035815m	20.885	ppbv		
60) o-Xylene	9.956	91	521514	10.594	ppbv		99
61) Styrene	9.862	104	226476	10.256	ppbv		99
62) Isopropylbenzene	10.532	105	772862	10.146	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	338953	10.775	ppbv		98
64) n-propylbenzene	10.985	120	197507	10.261	ppbv		100
65) tert-Butylbenzene	11.526	119	700599	10.092	ppbv		99
66) Benzyl Chloride	11.610	91	39500	9.193	ppbv		99
67) sec-Butylbenzene	11.762	105	976394	10.215	ppbv		99
69) p-Isopropyltoluene	11.921	119	801913	10.188	ppbv		99
70) n-Butylbenzene	12.277	91	792434	10.151	ppbv		99
71) 2-Chlorotoluene	10.895	91	566431	10.052	ppbv		99
72) 4-Ethyltoluene	11.121	105	603229	10.244	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	526457	10.124	ppbv		97
74) 1,2,4-Trimethylbenzene	11.532	105	573778	10.189	ppbv		95
75) 1,3-Dichlorobenzene	11.604	146	332540	9.965	ppbv		99
76) 1,4-Dichlorobenzene	11.668	146	325676	9.975	ppbv		100
77) 1,2-Dichlorobenzene	11.943	146	332295	10.048	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	232050	8.549	ppbv		98
79) Naphthalene	13.510	128	506742	8.937	ppbv		98
80) Naphthalene,2-methyl-	14.455	142	139177	5.177	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	223979	8.093	ppbv		98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
Data File : VL041997.D
Acq On : 11 Feb 2025 10:50
Operator : SY/MD
Sample : VL0211ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0211ABS01

Quant Time: Feb 11 22:17:38 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



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:	vl021125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL041995.D	m/p-Xylene	MMDadoda	2/12/2025 1:01:31 PM	SAM	2/12/2025 1:04:33 PM	Peak Integrated by Software
VL0211ABS01	VL041997.D	m/p-Xylene	MMDadoda	2/12/2025 1:01:37 PM	SAM	2/12/2025 1:04:31 PM	Peak Integrated by Software
Q1342-01	VL041998.D	Carbon Tetrachloride	MMDadoda	2/12/2025 1:01:40 PM	SAM	2/12/2025 1:04:29 PM	Peak Integrated by Software
Q1342-01	VL041998.D	Cyclohexane	MMDadoda	2/12/2025 1:01:40 PM	SAM	2/12/2025 1:04:29 PM	Peak Integrated by Software
Q1342-01	VL041998.D	m/p-Xylene	MMDadoda	2/12/2025 1:01:40 PM	SAM	2/12/2025 1:04:29 PM	Peak Integrated by Software
Q1342-01	VL041998.D	o-Xylene	MMDadoda	2/12/2025 1:01:40 PM	SAM	2/12/2025 1:04:29 PM	Peak Integrated by Software
Q1342-01	VL041998.D	Tetrachloroethene	MMDadoda	2/12/2025 1:01:40 PM	SAM	2/12/2025 1:04:29 PM	Peak Integrated by Software
Q1342-01DUP	VL041999.D	Cyclohexane	MMDadoda	2/12/2025 1:01:42 PM	SAM	2/12/2025 1:04:27 PM	Peak Integrated by Software
Q1342-01DUP	VL041999.D	Tetrachloroethene	MMDadoda	2/12/2025 1:01:42 PM	SAM	2/12/2025 1:04:27 PM	Peak Integrated by Software
Q1342-02	VL042000.D	Benzene	MMDadoda	2/12/2025 1:02:05 PM	SAM	2/12/2025 1:04:25 PM	Peak Integrated by Software
Q1342-02	VL042000.D	Toluene	MMDadoda	2/12/2025 1:02:05 PM	SAM	2/12/2025 1:04:25 PM	Peak Integrated by Software
Q1342-02DUP	VL042001.D	Carbon Tetrachloride	MMDadoda	2/12/2025 1:02:12 PM	SAM	2/12/2025 1:04:23 PM	Peak Integrated by Software
Q1342-02DUP	VL042001.D	Tetrachloroethene	MMDadoda	2/12/2025 1:02:12 PM	SAM	2/12/2025 1:04:23 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vl021125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042002.D	m/p-Xylene	MMDadoda	2/12/2025 1:02:13 PM	SAM	2/12/2025 1:04:21 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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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	

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

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL021125

Review By	Mahesh Dadoda	Review On	2/12/2025 1:02:17 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/12/2025 1:04:39 PM		
SubDirectory	VL021125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2575
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2575
ICV/I.BLK	AP2574
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041994.D	11 Feb 2025 08:38	SY/MD	Ok
2	VSTDCCC010	VL041995.D	11 Feb 2025 09:21	SY/MD	Ok,M
3	VL0211ABL01	VL041996.D	11 Feb 2025 10:06	SY/MD	Ok
4	VL0211ABS01	VL041997.D	11 Feb 2025 10:50	SY/MD	Ok,M
5	Q1342-01	VL041998.D	11 Feb 2025 11:39	SY/MD	Ok,M
6	Q1342-01DUP	VL041999.D	11 Feb 2025 12:13	SY/MD	Ok,M
7	Q1342-02	VL042000.D	11 Feb 2025 12:46	SY/MD	Ok,M
8	Q1342-02DUP	VL042001.D	11 Feb 2025 13:21	SY/MD	Ok,M
9	VSTDCCC010	VL042002.D	11 Feb 2025 14:00	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # 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

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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	

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,
Fax : 908 789 8922

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL021125

Review By	Mahesh Dadoda	Review On	2/12/2025 1:02:17 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/12/2025 1:04:39 PM		
SubDirectory	VL021125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2575
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2575
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	VL041994.D	11 Feb 2025 08:38		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL041995.D	11 Feb 2025 09:21		SY/MD	Ok,M
3	VL0211ABL01	VL0211ABL01	VL041996.D	11 Feb 2025 10:06		SY/MD	Ok
4	VL0211ABS01	VL0211ABS01	VL041997.D	11 Feb 2025 10:50		SY/MD	Ok,M
5	Q1342-01	IA1	VL041998.D	11 Feb 2025 11:39		SY/MD	Ok,M
6	Q1342-01DUP	IA1DUP	VL041999.D	11 Feb 2025 12:13		SY/MD	Ok,M
7	Q1342-02	OA1	VL042000.D	11 Feb 2025 12:46		SY/MD	Ok,M
8	Q1342-02DUP	OA1DUP	VL042001.D	11 Feb 2025 13:21		SY/MD	Ok,M
9	VSTDCCC010	VSTDCCC010EC	VL042002.D	11 Feb 2025 14:00		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 : **B2501048**	Courier : ~~F~~ GALDUN	1 of 2 COCs
Client ID : **GFEL01** Project ID : ~~2536 Gaspia Parkway, Plainfield NY~~		Sampler Name(s) : ~~F~~ 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: 315 W. 106th ST. NY, NY	Batch Certified	
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : ~~5 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	2/6/25	9:12	11:12	OVER 30	4.5	68	68	-30	-5.1	10511	10315	6 L	50	VL041782.D	✓			✓			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15): Sut

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low) PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 2/3/25	Canisters Received by:	Date/Time: 2-7-25 11:21
Samples Relinquished by:	Date/Time: 2/7/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2501048 - 3

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 : **B2501048**	Courier : F GALDUN	2 of 2 COCs
Client ID : **GFEL01** Project ID : ~~21-35 Ellingia 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**	Individual Certified	
City : **Lake Hiawatha**	Site Details: 315 W. 106TH ST. NY, NY		
State : **NJ**	Analysis Turnaround Time		
Zip Code : **07034**	Standard : **10 business days** OR	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): _____ **Days**	EDD Type : EQUIS	

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		
OA1	2/6/25	9:56	11:56	OVER 30	6.5	✓	✓	-30	-6.7	10648	10311	6 L	50	VL041691.D	1	1			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	30			
Stop	33			

GC/MS Analyst Signature (TO-15): SM

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: SAM	Date/Time: 01/31/25	Canisters Received by: OP	Date/Time: 2-7-25 1121		
Samples Relinquished by:	Date/Time: 2/7/25	Received by:	Date/Time:		B2501048 - 2
Relinquished by:	Date/Time:	Received by:	Date/Time:		

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
NASP:
Field Sample Seal No.: Q1342
Case No.: 315 W. 106th St NY, NY

Location: 284 Sheffield Street, Mountainside, NJ 7092
Title: Sample Custodian
Date Broken: 2/7/2025
Military Time Seal Broken: 11:21:00
Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1342-01	IA1		
Q1342-02	OA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
2-7-25	13:15	Signature	Signature	
		Printed Name Esperanza Pena	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*

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				SY
	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				SY
01/20/25	Q1138-01	10607	11.8	-5.9				SY
↓	Q1138-02	10323	13.4	-2.7				SY
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				
02/05/25	Q1302-01	10331	12.5	-4.5				SY
	Q1302-02	10283	12.0	-5.5				SY
	Q1303-01	10271	12.2	-5.1				
	Q1303-02	10285	11.4	-6.7				
	Q1303-03	10275	12.5	-4.5				
	Q1303-04	10269	11.8	-5.9				↓
02/07/25	Q1342-01	10315	12.2	-5.1				SY
↓	Q1342-02	10311	11.4	-6.7				↓

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

Process Report

Order ID : Q1342

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
02/07/2025	B2501048	Q1342-01	-5.1	10315	6 L	10511		C2412001	**VL041782.D** Seq :vl121724 TUNE : VL041770.D ICAL : VL041757.D CCAL : VL041771.D MB : VL041774.D
02/07/2025	B2501048	Q1342-02	-6.7	10311	6 L	10648		C2410002	**VL041691.D** Seq :VL110724 TUNE : VL041672.D ICAL : VL041679.D CCAL : VL041674.D MB : VL041682.D

CHEMTECH

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

Client Sample ID #: OA1

Client Name : GFE

Project Name: W. 106TH ST

Date: 2/6 Time:

Analysis: TO-15

Comments:

CHEMTECH'S SAMPL

Date Received: Date of Disposal:

Storage Location: N41

Sample: Q1342-02

Cust #: OA1

CHEMTECH

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

Client Sample ID #: IA1

Client Name : GFE

Project Name: W. 106TH ST

Date: 2/6 Time:

Analysis: TO-15

Comments:

CHEMTECH'S SAMP

Date Received:

Storage Location: N41

Sample: Q1342-01

Cust #: IA1