

Process Report

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

Order ID : Q2671

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
07/22/2025	B2507027	Q2671-01	-5.9	10599	6 L	10567		C2505004	VL042600.D Seq :vl052925 TUNE : VL042578.D ICAL : VL042584.D CCAL : VL042579.D MB : VL042588.D
07/22/2025	B2507027	Q2671-03	-6.3	10294	6 L	10183		C2505004	VL042600.D Seq :vl052925 TUNE : VL042578.D ICAL : VL042584.D CCAL : VL042579.D MB : VL042588.D
07/22/2025	B2507027	Q2671-05	-8.6	10267	6 L	10202		C2505004	VL042600.D Seq :vl052925 TUNE : VL042578.D ICAL : VL042584.D CCAL : VL042579.D MB : VL042588.D
07/22/2025	B2507027	Q2671-04	-7.5	10197	6 L	10188		C2505004	VL042600.D Seq :vl052925 TUNE : VL042578.D ICAL : VL042584.D CCAL : VL042579.D MB : VL042588.D
07/22/2025	B2507027	Q2671-02	-7.5	10154	6 L	10476		C2505004	VL042600.D Seq :vl052925 TUNE : VL042578.D ICAL : VL042584.D CCAL : VL042579.D MB : VL042588.D



Canister Cleaning

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

Canister Batch : C2505004

Type of Canister : 6 L

Cleaning Date : 05/22/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10267	-30	05/23/2025	05/29/2025	-30	05/27/2025	Q2671-05	10154	VL042600.D
10294	-30	05/23/2025	05/29/2025	-30	05/27/2025	Q2671-03	10154	VL042600.D
10275	-30	05/23/2025	05/29/2025	-30	05/27/2025		10154	VL042600.D
10197	-30	05/23/2025	05/29/2025	-30	05/27/2025	Q2671-04	10154	VL042600.D
10283	-30	05/23/2025	05/29/2025	-30	05/27/2025	Q2617-02	10154	VL042600.D
10154	-30	05/23/2025	05/29/2025	-30	05/27/2025	Q2671-02	10154	VL042600.D
10285	-30	05/23/2025	05/29/2025	-30	05/27/2025		10154	VL042600.D
10599	-30	05/23/2025	05/29/2025	-30	05/27/2025	Q2671-01	10154	VL042600.D

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042578.D	29 May 2025 08:05	SY/MD	Ok
2	VSTDICCC010	VL042579.D	29 May 2025 11:09	SY/MD	Ok,M
3	VSTDICCC002	VL042580.D	29 May 2025 11:43	SY/MD	Ok,M
4	VSTDICCC001	VL042581.D	29 May 2025 12:15	SY/MD	Ok,M
5	VSTDICCC0.5	VL042582.D	29 May 2025 12:47	SY/MD	Ok,M
6	VSTDICCC0.1	VL042583.D	29 May 2025 13:19	SY/MD	Ok,M
7	VSTDICCC0.03	VL042584.D	29 May 2025 13:51	SY/MD	Ok,M
8	VSTDICCC015	VL042585.D	29 May 2025 14:24	SY/MD	Ok,M
9	VSTDICV010	VL042586.D	29 May 2025 14:56	SY/MD	Ok,M
10	VL0529ABL01	VL042587.D	29 May 2025 15:44	SY/MD	Not Ok
11	VL0529ABL02	VL042588.D	29 May 2025 16:50	SY/MD	Ok
12	Q2124-01	VL042589.D	29 May 2025 17:22	SY/MD	Dilution
13	Q2124-01DL	VL042590.D	29 May 2025 17:55	SY/MD	Ok,M
14	VL0529ABS01	VL042591.D	29 May 2025 18:27	SY/MD	Ok,M
15	Q2124-02	VL042592.D	29 May 2025 19:00	SY/MD	Ok,M
16	Q2124-02DL	VL042593.D	29 May 2025 19:32	SY/MD	Not Ok
17	Q2124-03	VL042594.D	29 May 2025 20:05	SY/MD	Ok,M
18	Q2124-03DL	VL042595.D	29 May 2025 20:37	SY/MD	Not Ok
19	Q2124-01DUP	VL042596.D	29 May 2025 21:10	SY/MD	Not Ok
20	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	SY/MD	Not Ok
21	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18	SY/MD	Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2629			
Initial Calibration Stds		AP2623,AP2625,AP2626			
CCC		AP2623			
Internal Standard/PEM		AP2629			
ICV/I.BLK		AP2627			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

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

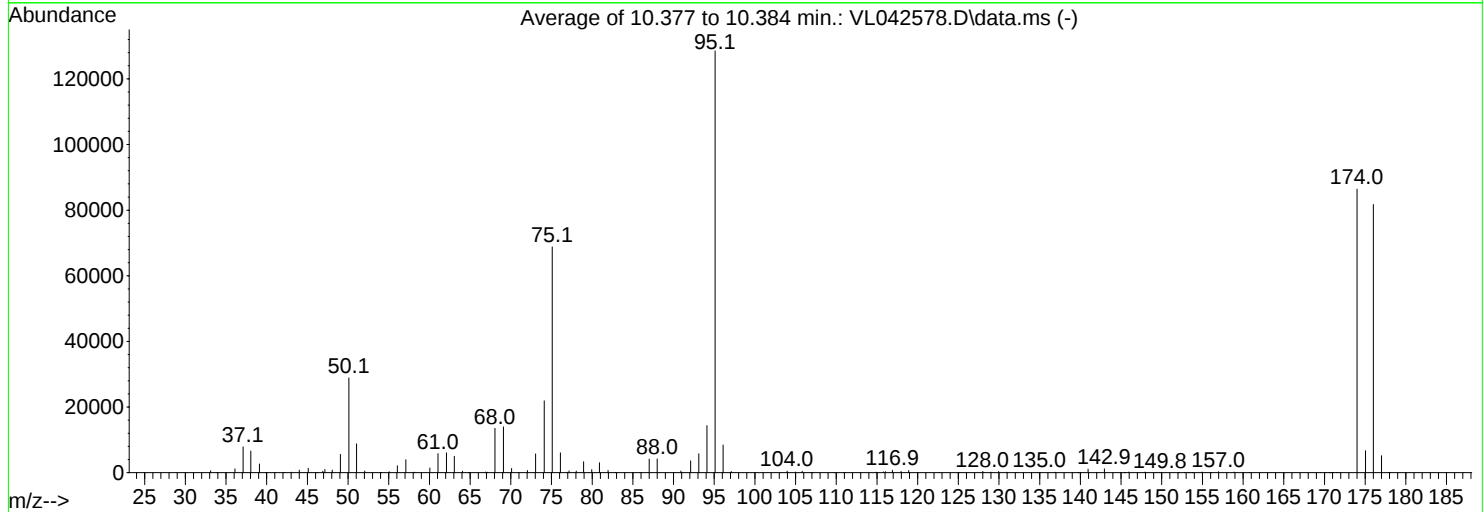
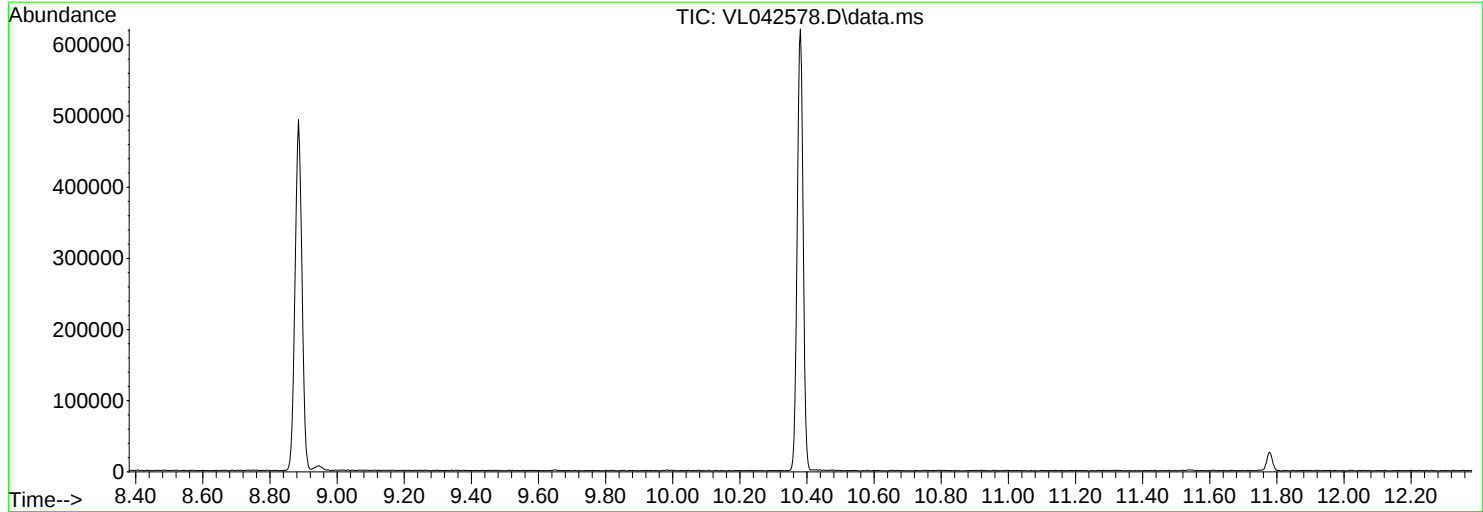
M : Manual Integration

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

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

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



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

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

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

Method File : VL052925AIR.M

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

Last Update : Fri May 30 02:01:56 2025

Response Via : Initial Calibration

Calibration Files

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

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

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

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.760	0.754	0.746	0.655	0.651	0.713	7.71
35) T Carbon Tetrach...	0.681	0.706	0.665	0.684	0.670	0.603	0.612	0.660	5.82
36) T Benzene			1.051	1.052	1.027	0.900	0.894	0.985	8.20
37) T 1,2-Dichloroet...			0.518	0.509	0.513	0.448	0.460	0.489	6.72
38) T Trichloroethene	0.389	0.432	0.468	0.455	0.438	0.376	0.373	0.419	9.28
39) T 1,2-Dichloropr...			0.415	0.374	0.373	0.329	0.330	0.364	9.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL052925AIR.M										
40)	T	1,4-Dioxane		0.172	0.178	0.168	0.152	0.145	0.163	8.70
41)	T	Tetrahydrofuran		0.445	0.446	0.426	0.388	0.382	0.417	7.33
42)	T	Bromodichlorom...		0.702	0.737	0.721	0.656	0.660	0.695	5.17
43)		Methyl Methacr...		0.398	0.384	0.406	0.366	0.357	0.382	5.36
44)	T	2,2,4-Trimethy...		1.811	1.830	1.765	1.522	1.495	1.684	9.67
45)	T	t-1,3-Dichloro...		0.433	0.455	0.456	0.424	0.418	0.437	4.01
46)	T	cis-1,3-Dichlo...		0.567	0.568	0.555	0.527	0.523	0.548	3.99
47)	T	1,1,2-Trichlor...		0.406	0.401	0.394	0.343	0.340	0.377	8.69
48)	T	Dibromochlorom...		0.600	0.642	0.635	0.570	0.571	0.603	5.64
49)	T	Bromoform		0.524	0.519	0.553	0.508	0.501	0.521	3.83
50)	T	4-Methyl-2-Pen...		1.036	1.030	1.002	0.958	0.919	0.989	5.05
51)	T	2-Hexanone		0.752	0.818	0.824	0.779	0.749	0.784	4.49
52)	T	Tetrachloroethene	0.351 0.407	0.391	0.383	0.390	0.333	0.321	0.368	8.93
53)	T	Toluene		1.210	1.190	1.197	1.054	1.040	1.138	7.35
54)	T	1,2-Dibromoethane	0.575	0.578	0.590	0.576	0.516	0.513	0.558	6.15
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.520	0.536	0.528	0.467	0.464	0.503	6.95
57)	T	Chlorobenzene		1.081	1.028	1.014	0.868	0.865	0.971	10.17
58)	T	Ethyl Benzene		1.770	1.786	1.833	1.547	1.545	1.696	8.19
59)	T	m/p-Xylene		1.411	1.412	1.431	1.212	1.208	1.335	8.55
60)	T	o-Xylene		1.430	1.410	1.441	1.187	1.188	1.331	9.87
61)	T	Styrene		0.626	0.658	0.678	0.590	0.596	0.629	6.07
62)		Isopropylbenzene		2.060	2.129	2.121	1.772	1.751	1.967	9.62
63)	T	1,1,2,2-Tetrac...	1.054 0.828	0.879	0.861	0.855	0.723	0.727	0.847	13.16
64)		n-propylbenzene		0.579	0.541	0.570	0.471	0.475	0.527	9.74
65)		tert-Butylbenzene		1.945	1.923	1.942	1.577	1.538	1.785	11.68
66)	T	Benzyl Chloride		0.199	0.237	0.252	0.241	0.220	0.230	8.94
67)		sec-Butylbenzene		2.745	2.743	2.699	2.195	2.165	2.509	12.01
68)	S	1-Bromo-4-Fluo...	0.752 0.751	0.755	0.751	0.741	0.744	0.754	0.750	0.68
69)		p-Isopropyltol...		2.241	2.249	2.299	1.868	1.851	2.101	10.57
70)		n-Butylbenzene		2.110	2.267	2.299	1.842	1.853	2.074	10.56
71)		2-Chlorotoluene		1.603	1.620	1.596	1.343	1.339	1.500	9.70
72)	T	4-Ethyltoluene		1.704	1.797	1.823	1.481	1.494	1.660	9.86
73)	T	1,3,5-Trimethy...		1.441	1.482	1.475	1.235	1.236	1.374	9.25
74)	T	1,2,4-Trimethy...		1.640	1.675	1.666	1.335	1.306	1.524	12.26
75)	T	1,3-Dichlorobe...		1.031	1.034	1.040	0.839	0.843	0.957	11.13
76)	T	1,4-Dichlorobe...		0.998	1.040	1.037	0.849	0.851	0.955	10.18
77)	T	1,2-Dichlorobe...		1.019	1.008	1.027	0.798	0.793	0.929	13.14
78)	T	Hexachloro-1,3...		0.872	0.893	0.880	0.607	0.593	0.769	20.11
79)	T	Naphthalene	1.088	1.366	1.634	1.785	1.383	1.366	1.437	16.89
80)	T	Naphthalene,2-...		0.444	0.562	0.781	0.716	0.743	0.649	21.85
81)	T	1,2,4-Trichlor...		0.716	0.889	0.944	0.735	0.727	0.802	13.26

(#) = Out of Range

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:16:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	307854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285844	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 212758 9.929 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.300%

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:16:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:17:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	104930	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	310090	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	284199	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 210508 9.881 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.800%

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:17:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:18:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	101864	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	307159	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	279402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 209886 10.021 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:18:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

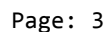
Response via : Initial Calibration

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

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

Manual Integrations APPROVED

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	2.790	49	102909	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	304613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276104	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	208325	10.065	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:19:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

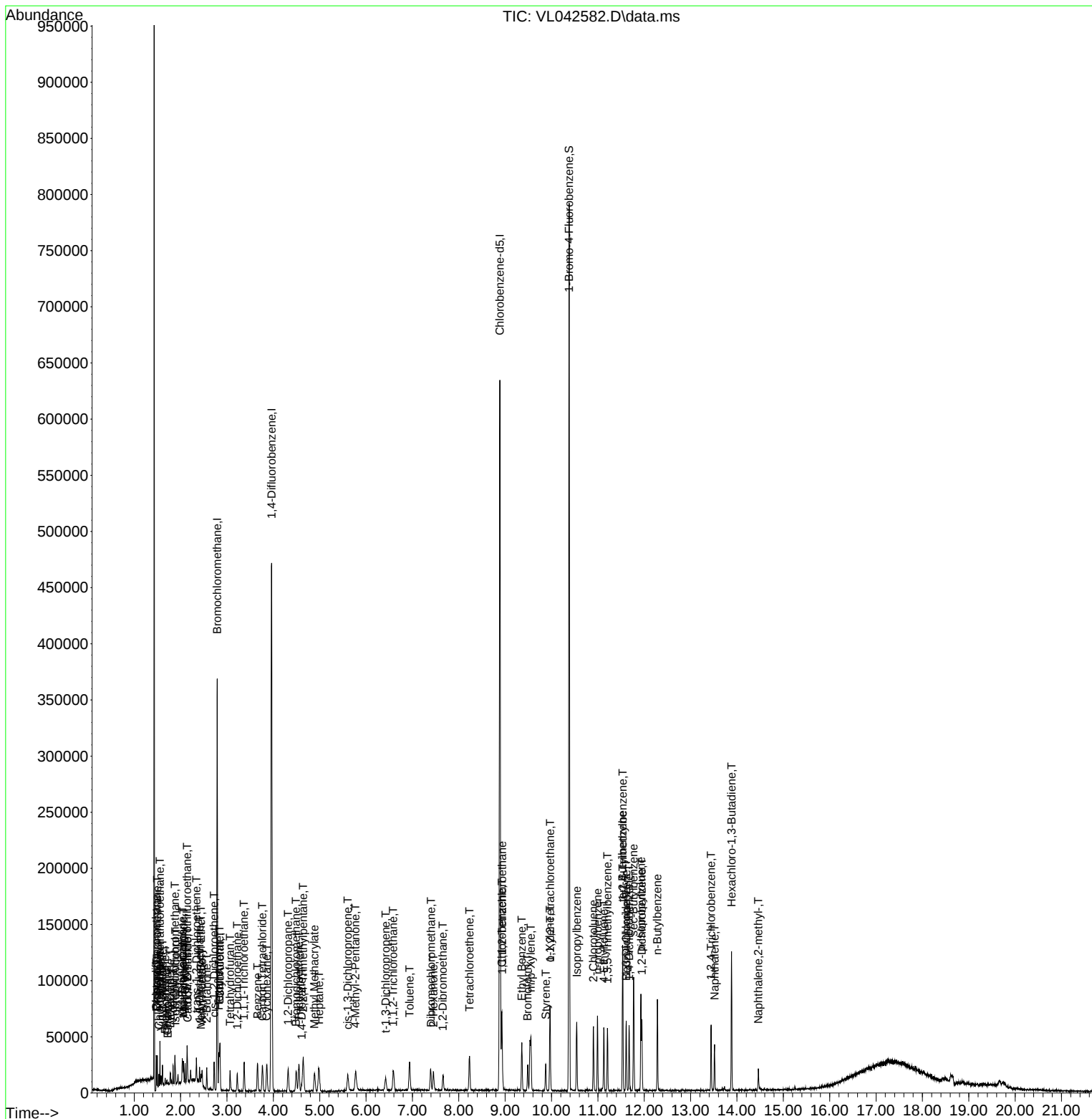
Response via : Initial Calibration

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

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

Manual Integrations

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:35:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

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

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

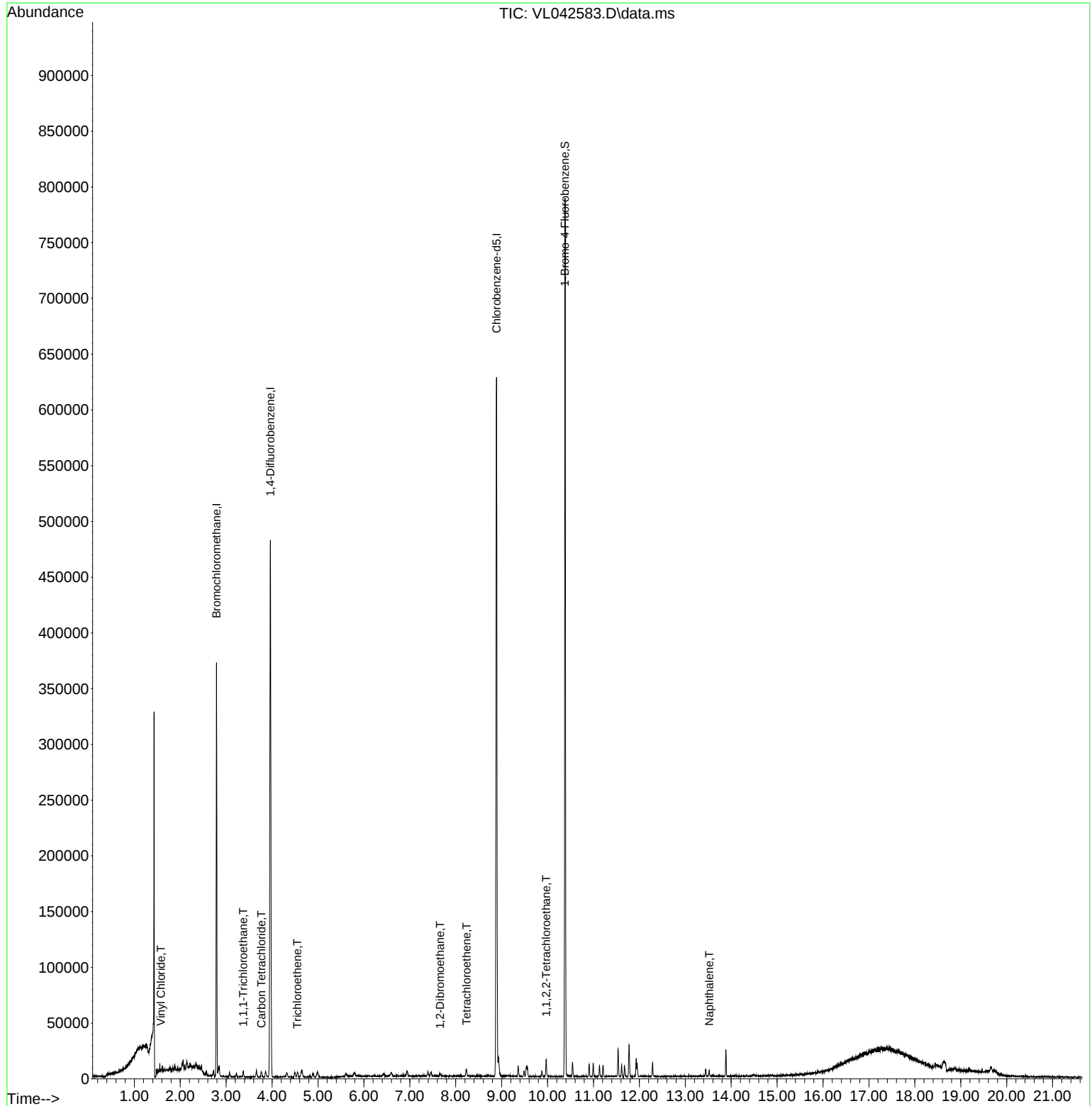
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

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

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

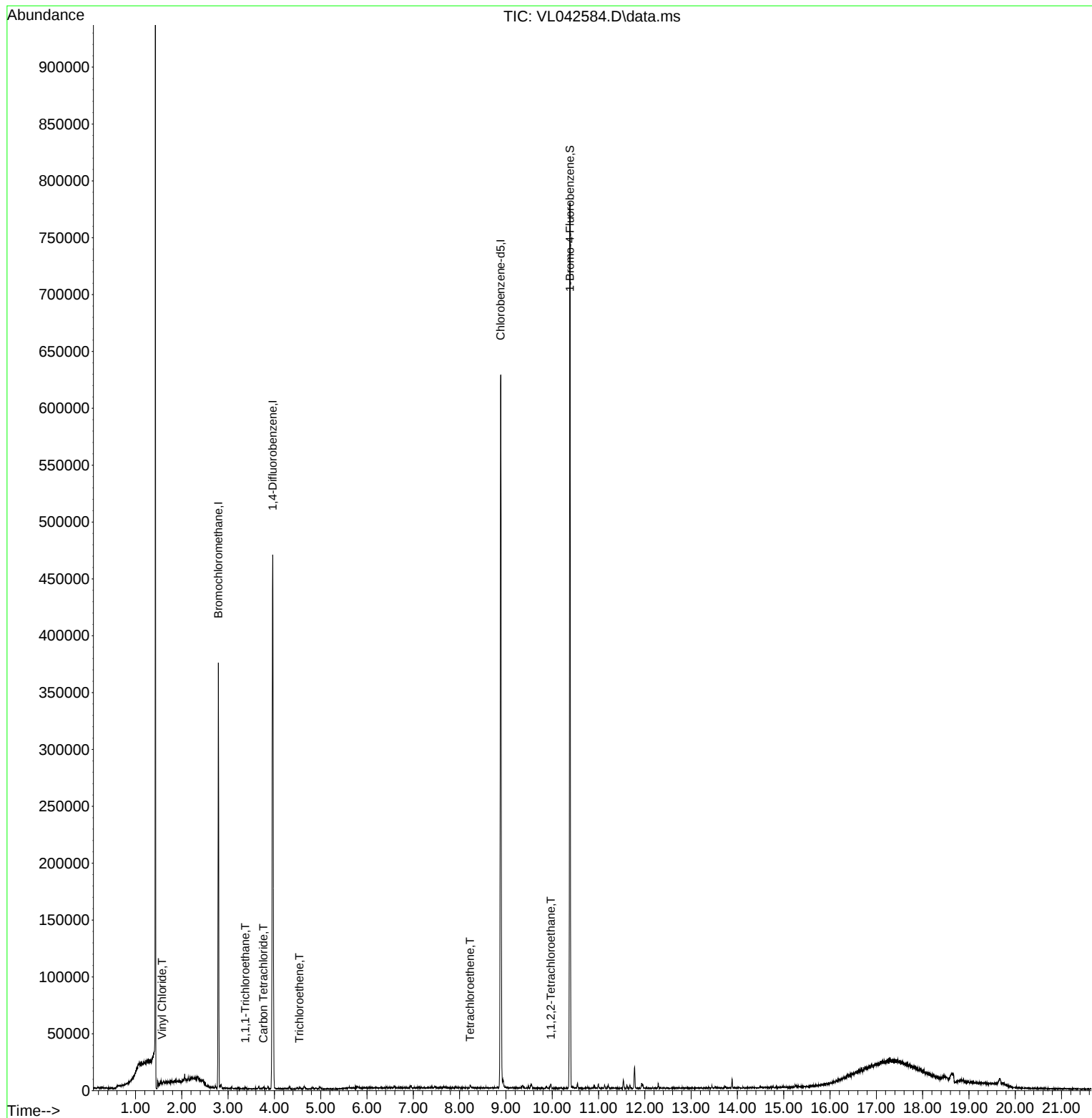
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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

Manual Integrations
APPROVED

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:21:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103906	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	301797	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	274912	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 207170 10.053 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:21:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Manual Integrations
 APPROVED

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

Quant Time: May 30 02:03:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102428	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	301054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	275875	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	203743	9.852	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Manual Integrations
 APPROVED

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

Quant Time: May 30 02:03:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.521	0.507	2.7	98	0.00
50 T	4-Methyl-2-Pentanone	0.989	0.927	6.3	95	0.00
51 T	2-Hexanone	0.784	0.757	3.4	95	0.00
52 T	Tetrachloroethene	0.368	0.328	10.9	97	0.00
53 T	Toluene	1.138	1.062	6.7	98	0.00
54 T	1,2-Dibromoethane	0.558	0.522	6.5	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	0.503	0.463	8.0	96	0.00
57 T	Chlorobenzene	0.971	0.879	9.5	98	0.00
58 T	Ethyl Benzene	1.696	1.567	7.6	98	0.00
59 T	m/p-Xylene	1.335	1.227	8.1	98	0.02
60 T	o-Xylene	1.331	1.207	9.3	98	0.00
61 T	Styrene	0.629	0.591	6.0	97	0.00
62	Isopropylbenzene	1.967	1.780	9.5	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.847	0.741	12.5	99	0.00
64	n-propylbenzene	0.527	0.477	9.5	98	0.00
65	tert-Butylbenzene	1.785	1.563	12.4	96	0.00
66 T	Benzyl Chloride	0.230	0.217	5.7	87	0.00
67	sec-Butylbenzene	2.509	2.204	12.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.739	1.5	96	0.00
69	p-Isopropyltoluene	2.101	1.859	11.5	96	0.00
70	n-Butylbenzene	2.074	1.867	10.0	98	0.00
71	2-Chlorotoluene	1.500	1.368	8.8	98	0.00
72 T	4-Ethyltoluene	1.660	1.496	9.9	98	0.00
73 T	1,3,5-Trimethylbenzene	1.374	1.254	8.7	98	0.00
74 T	1,2,4-Trimethylbenzene	1.524	1.348	11.5	97	0.00
75 T	1,3-Dichlorobenzene	0.957	0.851	11.1	98	0.00
76 T	1,4-Dichlorobenzene	0.955	0.863	9.6	98	0.00
77 T	1,2-Dichlorobenzene	0.929	0.813	12.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.769	0.613	20.3	98	0.00
79 T	Naphthalene	1.437	1.389	3.3	97	0.00
80 T	Naphthalene,2-methyl-	0.649	0.705	-8.6	95	0.00
81 T	1,2,4-Trichlorobenzene	0.802	0.720	10.2	95	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042588.D
 Acq On : 29 May 2025 16:50
 Operator : SY/MD
 Sample : VL0529ABL02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABL02

Quant Time: May 30 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	102651	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	295997	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	264969	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	199114	10.025	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%

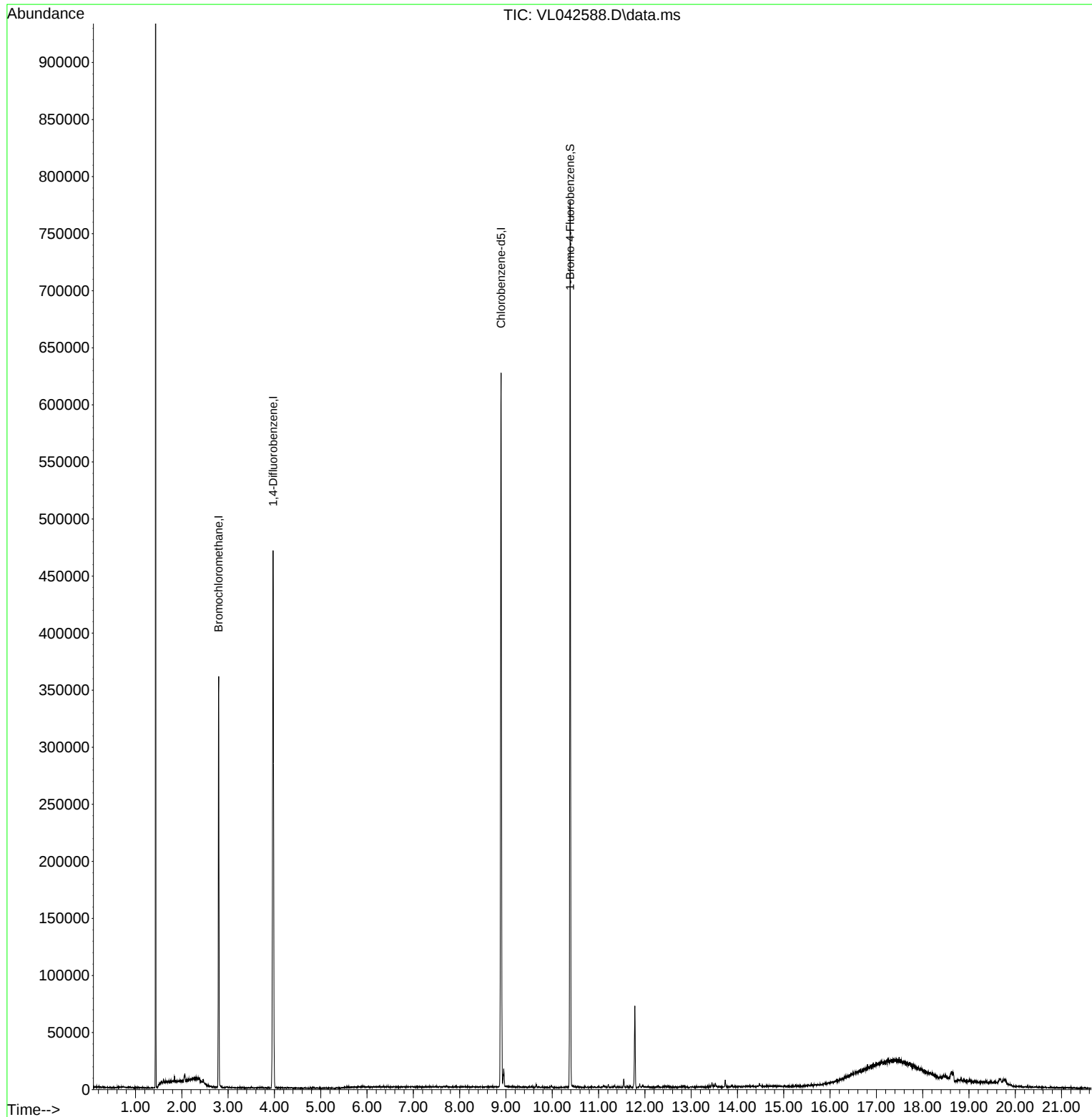
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042588.D
Acq On : 29 May 2025 16:50
Operator : SY/MD
Sample : VL0529ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0529ABL02

Quant Time: May 30 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042591.D
 Acq On : 29 May 2025 18:27
 Operator : SY/MD
 Sample : VL0529ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

Manual Integrations
 APPROVED

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

Quant Time: May 30 02:11:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	106381	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	304509	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	271830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 207449 10.181 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	119309	9.125	ppbv	96
3) Chlorodifluoromethane	1.479	51	153681	8.535	ppbv	100
4) Chloromethane	1.538	50	46128	8.909	ppbv	100
5) Vinyl Chloride	1.583	62	43153	8.182	ppbv	99
6) Bromomethane	1.670	94	21392	8.333	ppbv	96
7) Chloroethane	1.709	64	17848	8.709	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	96521	8.860	ppbv	98
9) Propene	1.486	41	62215	8.579	ppbv	99
10) Heptane	4.991	43	178704	8.743	ppbv	100
11) Trichlorofluoromethane	1.881	101	118918	9.775	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.146	101	92153	9.647	ppbv	97
13) Ethanol	1.725	45	4884	5.651	ppbv	97
14) Bromoethene	1.787	108	32689	9.098	ppbv	98
15) Acetone	1.839	43	96944	7.565	ppbv	97
16) 1,3-Butadiene	1.612	39	51200	8.435	ppbv	96
17) tert-Butyl alcohol	2.046	59	124231	9.306	ppbv	99
18) 1,1-Dichloroethene	2.039	96	41243	9.315	ppbv	97
19) Isopropyl Alcohol	1.890	45	66825	8.724	ppbv	99
20) Methylene Chloride	2.065	84	34577	8.177	ppbv	97
21) Allyl Chloride	2.101	41	83677	9.255	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	46918	9.487	ppbv	96
23) Vinyl Acetate	2.470	43	176545	10.192	ppbv	98
24) 1,1-Dichloroethane	2.415	63	93494	9.188	ppbv	99
25) Ethyl Acetate	2.842	43	309151	8.816	ppbv	99
26) Hexane	2.836	57	136644	8.576	ppbv	99
27) Carbon Disulfide	2.156	76	115247	9.421	ppbv #	92
28) Methyl tert-Butyl Ether	2.447	73	59350	9.179	ppbv	97
29) Chloroform	2.855	83	186648	9.008	ppbv	98
30) Cyclohexane	3.868	84	117225	8.874	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	130230	8.935	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	185446	8.760	ppbv	99
34) 2-Butanone	2.564	43	201605	9.284	ppbv	99
35) Carbon Tetrachloride	3.774	117	185074	9.207	ppbv	99
36) Benzene	3.667	78	272433	9.085	ppbv	99
37) 1,2-Dichloroethane	3.227	62	142338	9.551	ppbv	99
38) Trichloroethene	4.564	130	114177	8.958	ppbv	97
39) 1,2-Dichloropropane	4.324	63	99778	8.998	ppbv	96
40) 1,4-Dioxane	4.600	88	44586	8.985	ppbv #	89
41) Tetrahydrofuran	3.062	42	114785	9.030	ppbv	97
42) Bromodichloromethane	4.502	83	203990	9.637	ppbv	96
43) Methyl Methacrylate	4.894	69	108252	9.301	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	469200	9.148	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	124105	9.319	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042591.D
 Acq On : 29 May 2025 18:27
 Operator : SY/MD
 Sample : VL0529ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

Manual Integrations
 APPROVED

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

Quant Time: May 30 02:11:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	154951	9.285	ppbv	97
47) 1,1,2-Trichloroethane	6.600	97	104561	9.109	ppbv	92
48) Dibromochloromethane	7.399	129	172109	9.366	ppbv	100
49) Bromoform	9.497	173	146803	9.258	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	273778	9.089	ppbv	100
51) 2-Hexanone	7.451	43	223716	9.365	ppbv #	98
52) Tetrachloroethene	8.238	164	96938	8.651	ppbv	96
53) Toluene	6.949	91	313414	9.043	ppbv	100
54) 1,2-Dibromoethane	7.665	107	154274	9.080	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.937	131	126022	9.220	ppbv	97
57) Chlorobenzene	8.933	112	238351	9.030	ppbv	98
58) Ethyl Benzene	9.367	91	429601	9.317	ppbv	95
59) m/p-Xylene	9.561	91	671824m	18.515	ppbv	
60) o-Xylene	9.976	91	335550	9.272	ppbv	98
61) Styrene	9.882	104	160164	9.360	ppbv	99
62) Isopropylbenzene	10.548	105	494692	9.253	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	206035	8.953	ppbv	99
64) n-propylbenzene	10.998	120	130645	9.116	ppbv	99
65) tert-Butylbenzene	11.539	119	429459	8.852	ppbv	98
66) Benzyl Chloride	11.623	91	55881	8.948	ppbv	99
67) sec-Butylbenzene	11.775	105	610578	8.951	ppbv	99
69) p-Isopropyltoluene	11.934	119	517737	9.064	ppbv	100
70) n-Butylbenzene	12.290	91	517212	9.173	ppbv	98
71) 2-Chlorotoluene	10.911	91	373380	9.156	ppbv	99
72) 4-Ethyltoluene	11.134	105	409747	9.081	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	340820	9.127	ppbv	100
74) 1,2,4-Trimethylbenzene	11.545	105	371004	8.953	ppbv	93
75) 1,3-Dichlorobenzene	11.617	146	237761	9.136	ppbv	98
76) 1,4-Dichlorobenzene	11.681	146	233300	8.989	ppbv	100
77) 1,2-Dichlorobenzene	11.956	146	224628	8.894	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	167082	7.995	ppbv	99
79) Naphthalene	13.520	128	374244	9.581	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	187133	10.604	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	199137	9.132	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042600.D
 Acq On : 29 May 2025 23:26
 Operator : SY/MD
 Sample : QC05225 CAN 10154
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC05225 CAN 10154

Quant Time: May 30 02:16:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	98730	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	273505	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	245635	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	182369	9.904	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042600.D
Acq On : 29 May 2025 23:26
Operator : SY/MD
Sample : QC05225 CAN 10154
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC05225 CAN 10154

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

