

Process Report

Order ID : Q3698

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/21/2025	B2511028	Q3698-04	-5.1	10599	6 L	10782		C2510001	VL043082.D Seq :VL100925 TUNE : VL043078.D ICAL : VL043037.D CCAL : VL043079.D MB : VL043080.D
11/21/2025	B2511028	Q3698-02	-3.9	10282	6 L	10522		C2510001	VL043082.D Seq :VL100925 TUNE : VL043078.D ICAL : VL043037.D CCAL : VL043079.D MB : VL043080.D
11/21/2025	B2511028	Q3698-03	-5.1	10267	6 L	10613		C2510001	VL043082.D Seq :VL100925 TUNE : VL043078.D ICAL : VL043037.D CCAL : VL043079.D MB : VL043080.D
11/21/2025	B2511012	Q3698-01	-5.5	10158	6 L	10503		C2509001	VL042907.D Seq :VL090825 TUNE : VL042899.D ICAL : VL042847.D CCAL : VL042900.D MB : VL042901.D



Canister Cleaning

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

Canister Batch : C2509001

Type of Canister : 6 L

Cleaning Date : 09/04/2025

Analyst : sam

Oven Temperature : 125.0 c

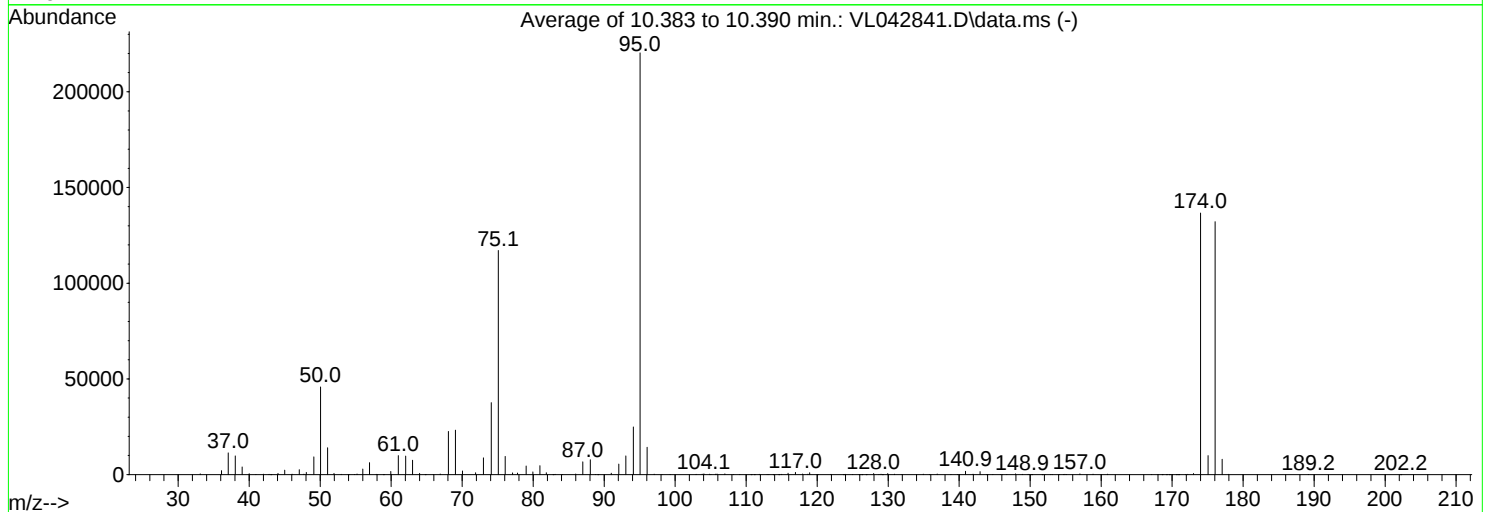
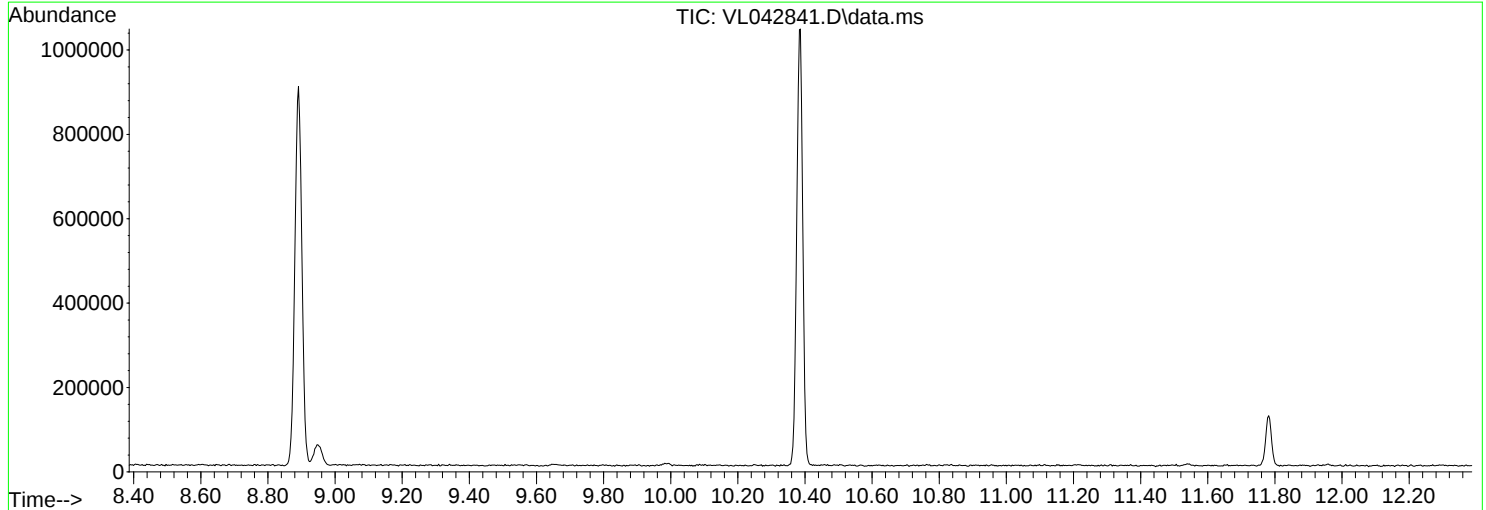
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10492	-30	09/05/2025	09/08/2025	-30	09/08/2025	Q3555-02	10158	VL042907.D
10609	-30	09/05/2025	09/08/2025	-30	09/08/2025	Q3320-13	10158	VL042907.D
10333	-30	09/05/2025	09/08/2025	-30	09/08/2025	Q3320-12	10158	VL042907.D
10285	-30	09/05/2025	09/08/2025	-30	09/08/2025	Q3320-05	10158	VL042907.D
10601	-30	09/05/2025	09/08/2025	-30	09/08/2025	Q3320-09	10158	VL042907.D
10604	-30	09/05/2025	09/08/2025	-30	09/08/2025	Q3320-10	10158	VL042907.D
10607	-30	09/05/2025	09/08/2025	-30	09/08/2025	Q3320-11	10158	VL042907.D
10158	-30	09/05/2025	09/08/2025	-30	09/08/2025		10158	VL042907.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042841.D
Acq On : 13 Aug 2025 07:45
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\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Aug 14 02:12:54 2025



AutoFind: Scans 3181, 3182, 3183; 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	20.8	45819	PASS
75	95	30	66	53.1	117101	PASS
95	95	100	100	100.0	220336	PASS
96	95	5	9	6.5	14308	PASS
173	174	0.00	2	0.4	581	PASS
174	95	50	120	62.0	136669	PASS
175	174	4	9	7.3	9984	PASS
176	174	93	101	96.7	132147	PASS
177	176	5	9	6.1	8054	PASS

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	435	45.00	2327	54.85	120	64.00	681
36.10	2065	46.05	279	55.20	357	64.80	30
37.05	11354	47.05	2620	56.00	2948	65.95	9
38.05	9819	47.70	280	56.95	6253	66.90	32
39.00	4004	48.05	1145	57.90	171	68.05	22548
40.00	533	49.10	9251	58.10	91	69.05	23213
40.95	49	50.05	45819	58.90	22	70.05	1937
42.00	227	51.05	14036	59.95	1687	71.90	1041
42.80	161	51.95	671	61.00	9948	73.00	8793
43.05	39	52.95	188	62.05	9678	74.10	37600
44.05	666	53.95	37	63.00	7566	75.10	117101

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.05	9555	87.00	6682	98.15	54	109.10	102
77.10	918	88.05	7760	99.30	64	110.70	18
77.80	815	88.80	77	102.95	130	111.15	1
79.00	4555	89.10	20	103.80	231	111.85	129
79.95	1463	91.00	725	104.05	430	112.95	69
80.95	4661	92.05	5511	104.85	224	113.20	121
81.85	1009	93.05	9746	105.05	89	113.80	17
82.80	45	94.10	24915	105.70	222	114.60	40
83.10	154	95.05	220336	105.90	378	115.00	164
84.10	59	96.05	14308	107.00	405	115.90	792
86.00	343	97.05	232	108.25	56	116.95	1160

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.95	357	127.95	629	138.85	68	147.95	426
118.70	248	128.70	103	139.80	86	148.90	159
118.95	989	129.00	282	140.05	107	149.70	172
120.00	35	129.20	46	140.90	1771	149.90	92
121.95	196	129.95	557	141.95	222	150.20	25
123.70	34	130.90	241	142.95	1603	151.70	42
124.00	187	131.95	49	143.90	46	152.10	65
125.00	93	134.00	75	144.75	112	152.90	115
125.90	42	134.95	263	145.80	52	153.10	90
126.30	20	135.85	80	146.05	101	154.10	102
126.90	38	136.90	300	146.70	83	154.70	65

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.90	185	170.60	19	189.20	100		
155.10	115	170.90	27	202.20	25		
157.00	453	171.05	82				
158.85	271	171.90	66				
160.90	247	172.20	170				
167.10	83	173.00	581				
168.00	69	174.00	136669				
168.60	43	175.05	9984				
169.20	47	176.05	132147				
169.60	20	177.05	8054				
170.05	75	177.95	182				

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

Method File : VL081325AIR.M

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

Last Update : Thu Aug 14 02:12:54 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042847.D 0.1 =VL042846.D 0.5 =VL042845.D 1 =VL042844.D 2 =VL042843.D 10 =VL042842.D 15 =VL042848.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.566	1.525	1.511	1.343	1.383	1.466	6.61
3) Chlorodifluoro...			1.752	1.621	1.714	1.509	1.504	1.620	7.05
4) Chloromethane			0.648	0.618	0.606	0.533	0.551	0.591	8.09
5) T Vinyl Chloride	0.728	0.639	0.593	0.559	0.550	0.502	0.507	0.582	13.72
6) T Bromomethane			0.248	0.268	0.239	0.203	0.206	0.233	12.06
7) Chloroethane			0.266	0.240	0.219	0.202	0.210	0.227	11.46
8) T Dichlorotetra...			1.273	1.235	1.245	1.122	1.122	1.199	6.02
9) T Propene			0.824	0.692	0.715	0.656	0.611	0.700	11.40
10) T Heptane			2.009	2.011	1.917	1.718	1.713	1.874	7.96
11) T Trichlorofluor...			1.614	1.533	1.467	1.271	1.345	1.446	9.59
12) T 1,1,2-Trichlor...			1.259	1.202	1.189	1.047	1.066	1.152	7.95
13) Ethanol			0.089	0.069	0.070	0.046	0.047	0.064	27.87
14) T Bromoethene			0.462	0.416	0.436	0.381	0.391	0.417	7.89
15) T Acetone			1.708	1.475	1.476	0.950	1.005	1.323	24.92
16) T 1,3-Butadiene			0.783	0.633	0.579	0.500	0.503	0.600	19.47
17) tert-Butyl alc...			1.920	1.660	1.557	1.371	1.335	1.569	15.14
18) T 1,1-Dichloroet...			0.552	0.509	0.532	0.469	0.472	0.507	7.21
19) T Isopropyl Alcohol			0.976	0.847	0.799	0.649	0.679	0.790	16.79
20) T Methylene Chlo...			0.792	0.596	0.544	0.414	0.425	0.554	27.79
21) T Allyl Chloride			1.122	0.902	0.945	0.850	0.854	0.935	11.98
22) T trans-1,2-Dich...			0.630	0.613	0.604	0.537	0.546	0.586	7.10
23) T Vinyl Acetate			2.161	1.733	1.849	1.663	1.689	1.819	11.22
24) T 1,1-Dichloroet...			1.317	1.223	1.185	1.040	1.088	1.171	9.38
25) T Ethyl Acetate			3.491	3.346	3.324	2.932	2.914	3.202	8.19
26) T Hexane			1.557	1.552	1.522	1.392	1.366	1.478	6.19
27) T Carbon Disulfide			1.504	1.513	1.511	1.314	1.348	1.438	6.84
28) T Methyl tert-Bu...			0.833	0.747	0.817	0.661	0.710	0.754	9.61
29) T Chloroform			2.299	2.183	2.166	1.932	1.970	2.110	7.32
30) T Cyclohexane			1.425	1.283	1.340	1.214	1.217	1.296	6.87
31) T cis-1,2-Dichlo...			1.625	1.524	1.524	1.346	1.362	1.476	8.06
32) T 1,1,1-Trichlor...	2.448	2.528	2.209	2.148	2.215	1.999	2.063	2.230	8.69

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.753	0.702	0.700	0.610	0.611	0.675	9.33
35) T Carbon Tetrach...	0.736	0.738	0.682	0.700	0.692	0.636	0.643	0.689	5.84
36) T Benzene			1.013	0.978	0.990	0.912	0.896	0.958	5.33
37) T 1,2-Dichloroet...			0.512	0.516	0.503	0.483	0.488	0.500	2.87
38) T Trichloroethene	0.416	0.448	0.501	0.448	0.453	0.399	0.397	0.437	8.35
39) T 1,2-Dichloropr...			0.378	0.365	0.356	0.324	0.326	0.350	6.84

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL081325AIR.M											
40)	T	1,4-Dioxane			0.189	0.185	0.166	0.148	0.144	0.166	12.22
41)	T	Tetrahydrofuran			0.395	0.389	0.392	0.355	0.351	0.376	5.64
42)	T	Bromodichlorom...			0.786	0.742	0.777	0.708	0.714	0.745	4.77
43)		Methyl Methacr...			0.427	0.402	0.415	0.368	0.362	0.394	7.31
44)	T	2,2,4-Trimethy...			1.728	1.719	1.676	1.515	1.489	1.625	7.06
45)	T	t-1,3-Dichloro...			0.450	0.464	0.456	0.428	0.427	0.445	3.73
46)	T	cis-1,3-Dichlo...			0.568	0.559	0.578	0.539	0.529	0.555	3.67
47)	T	1,1,2-Trichlor...			0.395	0.382	0.386	0.341	0.348	0.371	6.52
48)	T	Dibromochlorom...			0.596	0.605	0.632	0.584	0.581	0.600	3.44
49)	T	Bromoform			0.466	0.514	0.535	0.491	0.467	0.495	6.07
50)	T	4-Methyl-2-Pen...			0.960	0.917	0.946	0.881	0.859	0.913	4.67
51)	T	2-Hexanone			0.723	0.737	0.750	0.699	0.683	0.718	3.82
52)	T	Tetrachloroethene	0.391	0.379	0.369	0.333	0.345	0.313	0.295	0.346	10.19
53)	T	Toluene			1.219	1.180	1.160	1.072	1.061	1.138	6.09
54)	T	1,2-Dibromoethane		0.599	0.549	0.532	0.552	0.506	0.512	0.542	6.24
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.534	0.549	0.551	0.476	0.476	0.517	7.39
57)	T	Chlorobenzene			1.026	0.990	0.994	0.878	0.866	0.951	7.68
58)	T	Ethyl Benzene			1.854	1.866	1.838	1.636	1.630	1.765	6.84
59)	T	m/p-Xylene			1.447	1.454	1.455	1.283	1.277	1.383	6.81
60)	T	o-Xylene			1.532	1.472	1.445	1.266	1.242	1.391	9.31
61)	T	Styrene			0.711	0.677	0.660	0.610	0.601	0.652	7.09
62)		Isopropylbenzene			2.149	2.194	2.133	1.852	1.838	2.033	8.53
63)	T	1,1,2,2-Tetrac...	0.881	0.774	0.795	0.784	0.772	0.674	0.677	0.765	9.39
64)		n-propylbenzene			0.570	0.528	0.549	0.475	0.472	0.519	8.47
65)		tert-Butylbenzene			1.907	1.991	1.910	1.605	1.549	1.793	11.19
66)	T	Benzyl Chloride			0.232	0.226	0.246	0.227	0.207	0.228	6.21
67)		sec-Butylbenzene			2.669	2.754	2.706	2.250	2.202	2.516	10.62
68)	S	1-Bromo-4-Fluo...	0.736	0.746	0.755	0.760	0.744	0.755	0.754	0.750	1.09
69)		p-Isopropyltol...			2.338	2.372	2.328	1.905	1.856	2.160	11.85
70)		n-Butylbenzene			2.234	2.303	2.333	1.927	1.915	2.142	9.58
71)		2-Chlorotoluene			1.709	1.719	1.641	1.418	1.408	1.579	9.77
72)	T	4-Ethyltoluene			1.738	1.806	1.784	1.563	1.543	1.687	7.39
73)	T	1,3,5-Trimethy...			1.548	1.535	1.512	1.293	1.283	1.434	9.37
74)	T	1,2,4-Trimethy...			1.710	1.706	1.698	1.394	1.365	1.574	11.33
75)	T	1,3-Dichlorobe...			0.937	0.946	0.967	0.831	0.795	0.895	8.59
76)	T	1,4-Dichlorobe...			0.966	0.946	0.978	0.833	0.803	0.905	8.93
77)	T	1,2-Dichlorobe...			0.937	0.956	0.947	0.781	0.761	0.876	11.03
78)	T	Hexachloro-1,3...			0.814	0.845	0.804	0.572	0.556	0.718	19.74
79)	T	Naphthalene		1.174	1.383	1.647	1.746	1.315	1.300	1.427	15.50
80)	T	Naphthalene,2-...			0.430	0.554	0.708	0.478	0.497	0.533	20.15
81)	T	1,2,4-Trichlor...			0.623	0.797	0.855	0.661	0.650	0.717	14.24

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	133104	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	413632	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	370372	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 279557 10.064 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	178799	9.166	ppbv	100
3) Chlorodifluoromethane	1.476	51	200866	9.306	ppbv	100
4) Chloromethane	1.534	50	70952	9.013	ppbv	100
5) Vinyl Chloride	1.583	62	66768	8.612	ppbv	100
6) Bromomethane	1.670	94	26964	8.698	ppbv	100
7) Chloroethane	1.706	64	26884	8.879	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	149341	9.355	ppbv	100
9) Propene	1.486	41	87352	9.380	ppbv	100
10) Heptane	4.988	43	228679	9.186	ppbv	100
11) Trichlorofluoromethane	1.881	101	169157	8.789	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	139340	9.083	ppbv	100
13) Ethanol	1.722	45	6172	6.690	ppbv	100
14) Bromoethene	1.784	108	50730	9.135	ppbv	100
15) Acetone	1.839	43	126419	7.180	ppbv	100
16) 1,3-Butadiene	1.612	39	66595	8.343	ppbv	100
17) tert-Butyl alcohol	2.043	59	182511	8.741	ppbv	100
18) 1,1-Dichloroethene	2.036	96	62397	9.252	ppbv	100
19) Isopropyl Alcohol	1.887	45	86367	8.213	ppbv	100
20) Methylene Chloride	2.065	84	55107	7.471	ppbv	100
21) Allyl Chloride	2.098	41	113105	9.093	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	71518	9.482	ppbv	100
23) Vinyl Acetate	2.467	43	221395	9.558	ppbv	100
24) 1,1-Dichloroethane	2.412	63	138444	8.885	ppbv	100
25) Ethyl Acetate	2.839	43	390295	9.159	ppbv	100
26) Hexane	2.829	57	185288	9.420	ppbv	100
27) Carbon Disulfide	2.153	76	174928	9.138	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	87929	8.767	ppbv	100
29) Chloroform	2.852	83	257176	9.158	ppbv	100
30) Cyclohexane	3.862	84	161540	9.367	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	179162	9.107	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	266021	8.946	ppbv	100
34) 2-Butanone	2.560	43	252300	9.033	ppbv	100
35) Carbon Tetrachloride	3.771	117	262983	9.222	ppbv	100
36) Benzene	3.664	78	377113	9.521	ppbv	100
37) 1,2-Dichloroethane	3.224	62	199762	9.653	ppbv	100
38) Trichloroethene	4.557	130	164881	9.115	ppbv	100
39) 1,2-Dichloropropane	4.324	63	133996	9.263	ppbv	100
40) 1,4-Dioxane	4.590	88	61378	9.064	ppbv #	100
41) Tetrahydrofuran	3.059	42	147025	9.442	ppbv	100
42) Bromodichloromethane	4.499	83	292909	9.499	ppbv	100
43) Methyl Methacrylate	4.891	69	152035	9.357	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	626465	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	177207	9.616	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	222921	9.635	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	141105	9.215	ppbv	100
48) Dibromochloromethane	7.396	129	241553	9.739	ppbv	100
49) Bromoform	9.490	173	202975	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	364306	9.616	ppbv	100
51) 2-Hexanone	7.441	43	289052	9.730	ppbv #	100
52) Tetrachloroethene	8.234	164	129484	9.026	ppbv	100
53) Toluene	6.943	91	443400	9.407	ppbv	100
54) 1,2-Dibromoethane	7.661	107	209330	9.345	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.933	131	176135	9.196	ppbv	100
57) Chlorobenzene	8.930	112	325303	9.237	ppbv	100
58) Ethyl Benzene	9.364	91	605785	9.268	ppbv	100
59) m/p-Xylene	9.542	91	950548m	18.524	ppbv	
60) o-Xylene	9.972	91	469073	9.102	ppbv	100
61) Styrene	9.879	104	226056	9.362	ppbv	100
62) Isopropylbenzene	10.549	105	685983	9.108	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	249621	8.870	ppbv	100
64) n-propylbenzene	10.995	120	175986	9.158	ppbv	100
65) tert-Butylbenzene	11.539	119	594314	8.951	ppbv	100
66) Benzyl Chloride	11.620	91	84156	9.985	ppbv	100
67) sec-Butylbenzene	11.772	105	833378	8.943	ppbv	100
69) p-Isopropyltoluene	11.931	119	705700	8.820	ppbv	100
70) n-Butylbenzene	12.287	91	713713	8.995	ppbv	100
71) 2-Chlorotoluene	10.908	91	525235	8.981	ppbv	100
72) 4-Ethyltoluene	11.131	105	578931	9.267	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	478784	9.012	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	516253	8.853	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	307640	9.280	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	308542	9.203	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	289119	8.907	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	211996	7.968	ppbv	100
79) Naphthalene	13.516	128	487174	9.335	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	176880	9.000	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	244998	9.220	ppbv	100

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

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
Supervised By :Mahesh Dadoda 08/18/2025

[illegible]

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	130555	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	408144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	363830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 270774 9.923 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	39443	2.061	ppbv	99
3) Chlorodifluoromethane	1.480	51	44759	2.114	ppbv	96
4) Chloromethane	1.535	50	15826	2.050	ppbv	99
5) Vinyl Chloride	1.583	62	14358	1.888	ppbv	97
6) Bromomethane	1.670	94	6248	2.055	ppbv	97
7) Chloroethane	1.706	64	5717	1.925	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	32496	2.075	ppbv	98
9) Propene	1.486	41	18678	2.045	ppbv	89
10) Heptane	4.991	43	50062	2.050	ppbv	97
11) Trichlorofluoromethane	1.881	101	38308	2.029	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.146	101	31052	2.064	ppbv	99
13) Ethanol	1.725	45	1817m	2.008	ppbv	
14) Bromoethene	1.784	108	11376	2.089	ppbv	96
15) Acetone	1.839	43	38531	2.231	ppbv	96
16) 1,3-Butadiene	1.612	39	15122	1.932	ppbv	98
17) tert-Butyl alcohol	2.046	59	40652	1.985	ppbv	97
18) 1,1-Dichloroethene	2.039	96	13883	2.099	ppbv	95
19) Isopropyl Alcohol	1.891	45	20866	2.023	ppbv #	39
20) Methylene Chloride	2.065	84	14204	1.963	ppbv #	92
21) Allyl Chloride	2.101	41	24662	2.021	ppbv	96
22) trans-1,2-Dichloroethene	2.344	96	15773	2.132	ppbv	96
23) Vinyl Acetate	2.467	43	48269	2.125	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	30931	2.024	ppbv	98
25) Ethyl Acetate	2.842	43	86804	2.077	ppbv	98
26) Hexane	2.832	57	39735	2.060	ppbv	94
27) Carbon Disulfide	2.156	76	39466	2.102	ppbv #	15
28) Methyl tert-Butyl Ether	2.444	73	21341	2.169	ppbv	96
29) Chloroform	2.855	83	56553	2.053	ppbv	95
30) Cyclohexane	3.868	84	34992	2.069	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	39783	2.062	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	57837	1.983	ppbv	100
34) 2-Butanone	2.564	43	57172	2.075	ppbv	98
35) Carbon Tetrachloride	3.771	117	56459	2.007	ppbv	97
36) Benzene	3.664	78	80781	2.067	ppbv	98
37) 1,2-Dichloroethane	3.227	62	41034	2.010	ppbv	97
38) Trichloroethene	4.561	130	36990	2.072	ppbv #	86
39) 1,2-Dichloropropane	4.328	63	29059	2.036	ppbv	98
40) 1,4-Dioxane	4.606	88	13510m	2.022	ppbv	
41) Tetrahydrofuran	3.062	42	31994	2.082	ppbv	97
42) Bromodichloromethane	4.503	83	63436	2.085	ppbv	97
43) Methyl Methacrylate	4.888	69	33851m	2.111	ppbv	
44) 2,2,4-Trimethylpentane	4.655	57	136794	2.085	ppbv	98
45) t-1,3-Dichloropropene	6.428	75	37248	2.048	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	47201m	2.067	ppbv	
47) 1,1,2-Trichloroethane	6.593	97	31477m	2.083	ppbv	
48) Dibromochloromethane	7.399	129	51620	2.109	ppbv	100
49) Bromoform	9.493	173	43662	2.163	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	77225	2.066	ppbv	99
51) 2-Hexanone	7.451	43	61210	2.088	ppbv #	98
52) Tetrachloroethene	8.234	164	28166	1.990	ppbv	92
53) Toluene	6.946	91	94690	2.036	ppbv	98
54) 1,2-Dibromoethane	7.665	107	45071	2.039	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.933	131	40090	2.131	ppbv	97
57) Chlorobenzene	8.933	112	72296	2.090	ppbv	97
58) Ethyl Benzene	9.364	91	133719	2.083	ppbv	99
59) m/p-Xylene	9.558	91	211704m	4.200	ppbv	
60) o-Xylene	9.972	91	105125	2.077	ppbv	100
61) Styrene	9.879	104	48027	2.025	ppbv	96
62) Isopropylbenzene	10.545	105	155223	2.098	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	56139	2.031	ppbv	98
64) n-propylbenzene	10.995	120	39922	2.115	ppbv	97
65) tert-Butylbenzene	11.536	119	139019	2.132	ppbv	99
66) Benzyl Chloride	11.623	91	17893	2.161	ppbv	97
67) sec-Butylbenzene	11.772	105	196899	2.151	ppbv	98
69) p-Isopropyltoluene	11.931	119	169429	2.156	ppbv	99
70) n-Butylbenzene	12.287	91	169768	2.178	ppbv	99
71) 2-Chlorotoluene	10.908	91	119382	2.078	ppbv	99
72) 4-Ethyltoluene	11.131	105	129786	2.115	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	110043	2.109	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	123554	2.157	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	70330	2.160	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	71160	2.161	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	68944	2.162	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	58509	2.239	ppbv	100
79) Naphthalene	13.517	128	127025	2.478	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	51541	2.670	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	62216	2.384	ppbv	98

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

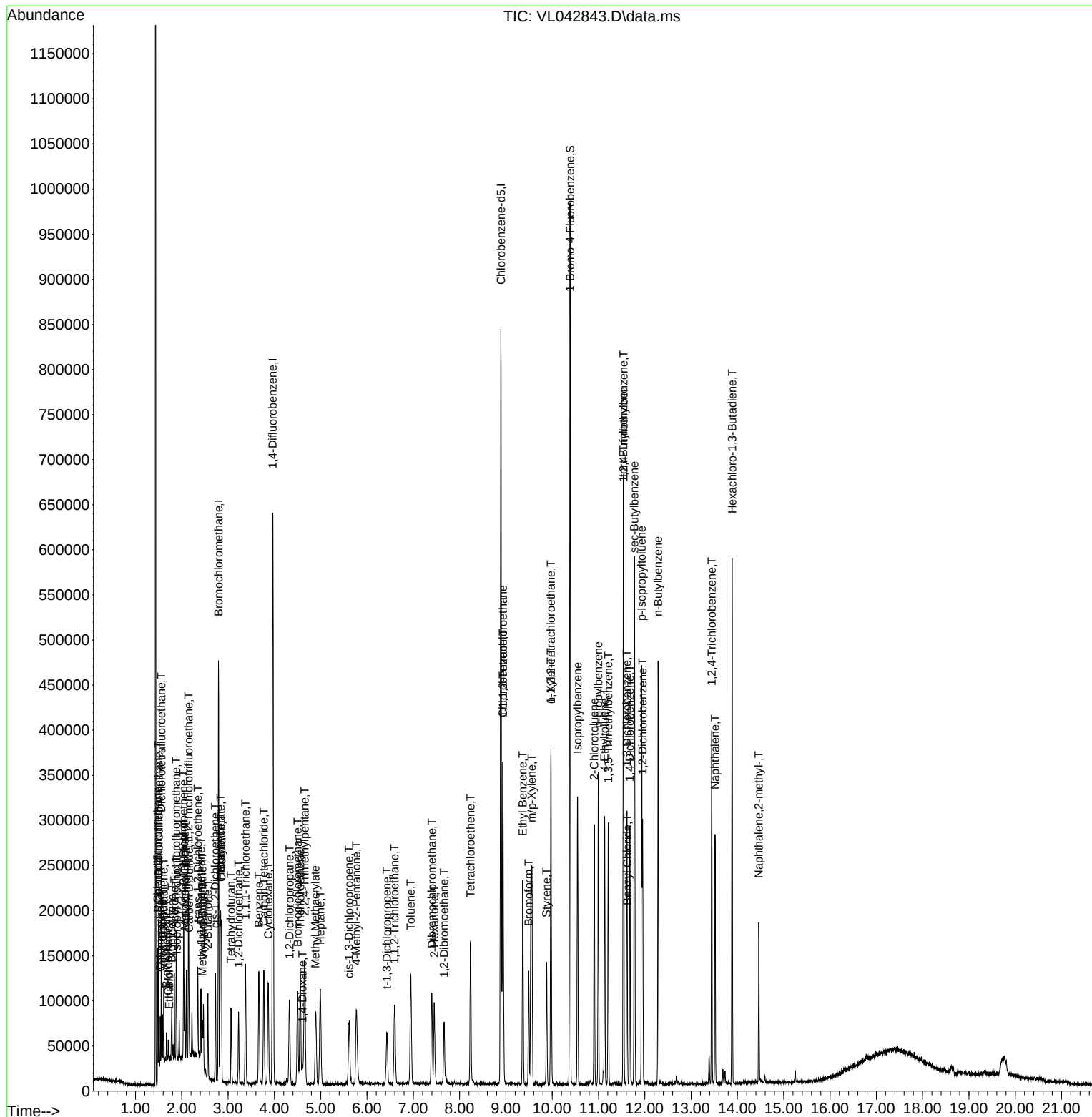
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	128542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	400305	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	349577	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 265708 10.135 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	19603	1.041	ppbv	99
3) Chlorodifluoromethane	1.476	51	20833	0.999	ppbv	93
4) Chloromethane	1.535	50	7948	1.045	ppbv	96
5) Vinyl Chloride	1.583	62	7189	0.960	ppbv	96
6) Bromomethane	1.667	94	3446	1.151	ppbv	84
7) Chloroethane	1.706	64	3089	1.056	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	15872	1.030	ppbv	100
9) Propene	1.486	41	8897	0.989	ppbv	89
10) Heptane	4.985	43	25850m	1.075	ppbv	
11) Trichlorofluoromethane	1.881	101	19701	1.060	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	15446	1.043	ppbv	97
13) Ethanol	1.722	45	883m	0.991	ppbv	
14) Bromoethene	1.784	108	5343	0.996	ppbv #	78
15) Acetone	1.839	43	18961	1.115	ppbv	98
16) 1,3-Butadiene	1.609	39	8133	1.055	ppbv	98
17) tert-Butyl alcohol	2.046	59	21342	1.058	ppbv #	93
18) 1,1-Dichloroethene	2.040	96	6549	1.006	ppbv	93
19) Isopropyl Alcohol	1.888	45	10893	1.073	ppbv #	39
20) Methylene Chloride	2.062	84	7661	1.076	ppbv #	90
21) Allyl Chloride	2.098	41	11598	0.966	ppbv	88
22) trans-1,2-Dichloroethene	2.344	96	7882m	1.082	ppbv	
23) Vinyl Acetate	2.467	43	22270	0.996	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	15727	1.045	ppbv	98
25) Ethyl Acetate	2.842	43	43007	1.045	ppbv	98
26) Hexane	2.829	57	19944	1.050	ppbv	92
27) Carbon Disulfide	2.153	76	19450	1.052	ppbv #	2
28) Methyl tert-Butyl Ether	2.444	73	9600	0.991	ppbv #	88
29) Chloroform	2.852	83	28055	1.034	ppbv	97
30) Cyclohexane	3.865	84	16492	0.990	ppbv	90
31) cis-1,2-Dichloroethene	2.723	61	19591	1.031	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	27607	0.961	ppbv	97
34) 2-Butanone	2.564	43	28105	1.040	ppbv	98
35) Carbon Tetrachloride	3.768	117	28008	1.015	ppbv	93
36) Benzene	3.661	78	39137	1.021	ppbv #	94
37) 1,2-Dichloroethane	3.224	62	20645	1.031	ppbv	97
38) Trichloroethene	4.555	130	17921	1.024	ppbv #	89
39) 1,2-Dichloropropane	4.325	63	14595m	1.042	ppbv	
40) 1,4-Dioxane	4.603	88	7386m	1.127	ppbv	
41) Tetrahydrofuran	3.062	42	15552	1.032	ppbv	94
42) Bromodichloromethane	4.499	83	29683	0.995	ppbv	99
43) Methyl Methacrylate	4.885	69	16073m	1.022	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	68813m	1.069	ppbv	
45) t-1,3-Dichloropropene	6.419	75	18580m	1.042	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	22372	0.999	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	15295	1.032	ppbv	86
48) Dibromochloromethane	7.396	129	24214	1.009	ppbv	99
49) Bromoform	9.490	173	20579	1.040	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	36710	1.001	ppbv	98
51) 2-Hexanone	7.451	43	29487	1.026	ppbv #	99
52) Tetrachloroethene	8.235	164	13322	0.960	ppbv	90
53) Toluene	6.946	91	47256	1.036	ppbv	99
54) 1,2-Dibromoethane	7.665	107	21280	0.982	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	19176	1.061	ppbv	96
57) Chlorobenzene	8.930	112	34617	1.041	ppbv #	91
58) Ethyl Benzene	9.361	91	65223	1.057	ppbv	95
59) m/p-Xylene	9.558	91	101634m	2.098	ppbv	
60) o-Xylene	9.969	91	51445	1.058	ppbv	99
61) Styrene	9.879	104	23660	1.038	ppbv	100
62) Isopropylbenzene	10.546	105	76708	1.079	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	27410	1.032	ppbv	98
64) n-propylbenzene	10.995	120	18462	1.018	ppbv	90
65) tert-Butylbenzene	11.536	119	69617	1.111	ppbv	99
66) Benzyl Chloride	11.617	91	7900	0.993	ppbv	98
67) sec-Butylbenzene	11.772	105	96288	1.095	ppbv	98
69) p-Isopropyltoluene	11.931	119	82934	1.098	ppbv	99
70) n-Butylbenzene	12.287	91	80511	1.075	ppbv	99
71) 2-Chlorotoluene	10.908	91	60086	1.089	ppbv	100
72) 4-Ethyltoluene	11.131	105	63147	1.071	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	53676	1.070	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	59633	1.083	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	33061	1.057	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	33064	1.045	ppbv	96
77) 1,2-Dichlorobenzene	11.950	146	33404	1.090	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	29555	1.177	ppbv	95
79) Naphthalene	13.517	128	57580	1.169	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	19375	1.045	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	27861	1.111	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Aug 14 01:48:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	126879	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	396264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	348005	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	262663	10.064	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	9937	0.534	ppbv	100
3) Chlorodifluoromethane	1.479	51	11115	0.540	ppbv	96
4) Chloromethane	1.538	50	4112	0.548	ppbv	90
5) Vinyl Chloride	1.586	62	3762	0.509	ppbv	94
6) Bromomethane	1.674	94	1576	0.533	ppbv	82
7) Chloroethane	1.709	64	1690	0.586	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	8079	0.531	ppbv	95
9) Propene	1.489	41	5225	0.589	ppbv	91
10) Heptane	4.998	43	12747	0.537	ppbv	93
11) Trichlorofluoromethane	1.884	101	10238	0.558	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	7984	0.546	ppbv	98
13) Ethanol	1.725	45	562	0.639	ppbv #	1
14) Bromoethene	1.787	108	2932	0.554	ppbv #	85
15) Acetone	1.842	43	10836	0.646	ppbv	98
16) 1,3-Butadiene	1.612	39	4970	0.653	ppbv	99
17) tert-Butyl alcohol	2.049	59	12182	0.612	ppbv #	89
18) 1,1-Dichloroethene	2.039	96	3501	0.545	ppbv	92
19) Isopropyl Alcohol	1.891	45	6194	0.618	ppbv #	56
20) Methylene Chloride	2.069	84	5025	0.715	ppbv	90
21) Allyl Chloride	2.104	41	7120	0.600	ppbv #	76
22) trans-1,2-Dichloroethene	2.350	96	3996	0.556	ppbv	96
23) Vinyl Acetate	2.470	43	13709	0.621	ppbv #	98
24) 1,1-Dichloroethane	2.418	63	8354	0.562	ppbv #	96
25) Ethyl Acetate	2.845	43	22148	0.545	ppbv #	96
26) Hexane	2.832	57	9879	0.527	ppbv	85
27) Carbon Disulfide	2.156	76	9539	0.523	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	5284	0.553	ppbv #	62
29) Chloroform	2.858	83	14586	0.545	ppbv	100
30) Cyclohexane	3.868	84	9037	0.550	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	10308	0.550	ppbv #	86
32) 1,1,1-Trichloroethane	3.379	97	14011	0.494	ppbv	97
34) 2-Butanone	2.567	43	14923	0.558	ppbv	100
35) Carbon Tetrachloride	3.774	117	13507	0.494	ppbv	97
36) Benzene	3.671	78	20073	0.529	ppbv	98
37) 1,2-Dichloroethane	3.230	62	10141	0.512	ppbv #	93
38) Trichloroethene	4.564	130	9918	0.572	ppbv #	88
39) 1,2-Dichloropropane	4.334	63	7491	0.541	ppbv	86
40) 1,4-Dioxane	4.613	88	3743m	0.577	ppbv	
41) Tetrahydrofuran	3.072	42	7827	0.525	ppbv	93
42) Bromodichloromethane	4.509	83	15580	0.527	ppbv #	94
43) Methyl Methacrylate	4.897	69	8461m	0.544	ppbv	
44) 2,2,4-Trimethylpentane	4.661	57	34237m	0.537	ppbv	
45) t-1,3-Dichloropropene	6.435	75	8911m	0.505	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	11259m	0.508	ppbv	
47) 1,1,2-Trichloroethane	6.603	97	7835m	0.534	ppbv	
48) Dibromochloromethane	7.406	129	11805	0.497	ppbv	100
49) Bromoform	9.497	173	9232	0.471	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	19028m	0.524	ppbv	
51) 2-Hexanone	7.458	43	14329	0.503	ppbv #	99
52) Tetrachloroethene	8.244	164	7304	0.531	ppbv #	87
53) Toluene	6.956	91	24155m	0.535	ppbv	
54) 1,2-Dibromoethane	7.668	107	10873	0.507	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.940	131	9300	0.517	ppbv #	1
57) Chlorobenzene	8.937	112	17845	0.539	ppbv #	96
58) Ethyl Benzene	9.370	91	32261	0.525	ppbv	99
59) m/p-Xylene	9.561	91	50372m	1.045	ppbv	
60) o-Xylene	9.979	91	26662	0.551	ppbv	100
61) Styrene	9.885	104	12379	0.546	ppbv	95
62) Isopropylbenzene	10.552	105	37401	0.529	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.976	83	13828	0.523	ppbv	95
64) n-propylbenzene	10.998	120	9922	0.550	ppbv	98
65) tert-Butylbenzene	11.542	119	33183	0.532	ppbv	97
66) Benzyl Chloride	11.626	91	4039	0.510	ppbv #	97
67) sec-Butylbenzene	11.778	105	46433	0.530	ppbv	96
69) p-Isopropyltoluene	11.934	119	40686	0.541	ppbv	99
70) n-Butylbenzene	12.290	91	38867	0.521	ppbv	99
71) 2-Chlorotoluene	10.911	91	29736	0.541	ppbv	97
72) 4-Ethyltoluene	11.138	105	30234	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.212	105	26942	0.540	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	29750	0.543	ppbv	94
75) 1,3-Dichlorobenzene	11.617	146	16311	0.524	ppbv	95
76) 1,4-Dichlorobenzene	11.681	146	16803	0.533	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	16306	0.535	ppbv	97
78) Hexachloro-1,3-Butadiene	13.885	225	14165	0.567	ppbv	99
79) Naphthalene	13.520	128	24056	0.491	ppbv	96
80) Naphthalene,2-methyl-	14.465	142	7482	0.405	ppbv	95
81) 1,2,4-Trichlorobenzene	13.449	180	10844	0.434	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042846.D
 Acq On : 13 Aug 2025 10:53
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:49:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	123711	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	345073	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	257439	9.948	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	790	0.110	ppbv #	86
32) 1,1,1-Trichloroethane	3.373	97	3128m	0.113	ppbv	
35) Carbon Tetrachloride	3.774	117	2883	0.107	ppbv	89
38) Trichloroethene	4.557	130	1748m	0.102	ppbv	
52) Tetrachloroethene	8.234	164	1479m	0.109	ppbv	
54) 1,2-Dibromoethane	7.665	107	2339m	0.111	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	2672	0.102	ppbv	99
79) Naphthalene	13.520	128	4051m	0.083	ppbv	

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

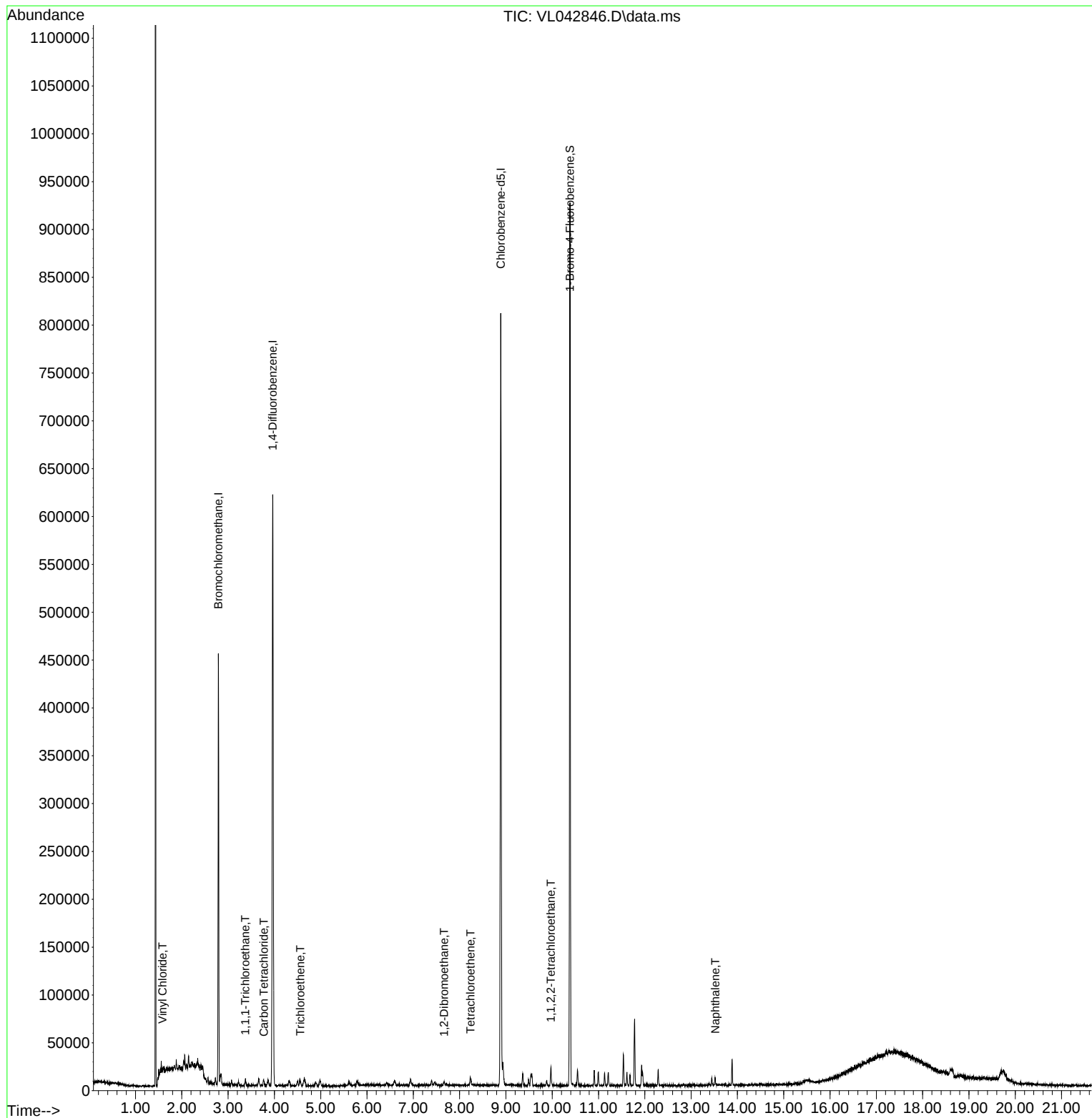
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042846.D
Acq On : 13 Aug 2025 10:53
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042847.D
 Acq On : 13 Aug 2025 11:30
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	122705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	390076	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	339700	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	250082	9.816	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	268	0.037	ppbv #	81
32) 1,1,1-Trichloroethane	3.379	97	901m	0.033	ppbv	
35) Carbon Tetrachloride	3.774	117	861m	0.032	ppbv	
38) Trichloroethene	4.573	130	487m	0.029	ppbv	
52) Tetrachloroethene	8.241	164	458m	0.034	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	898m	0.035	ppbv	

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

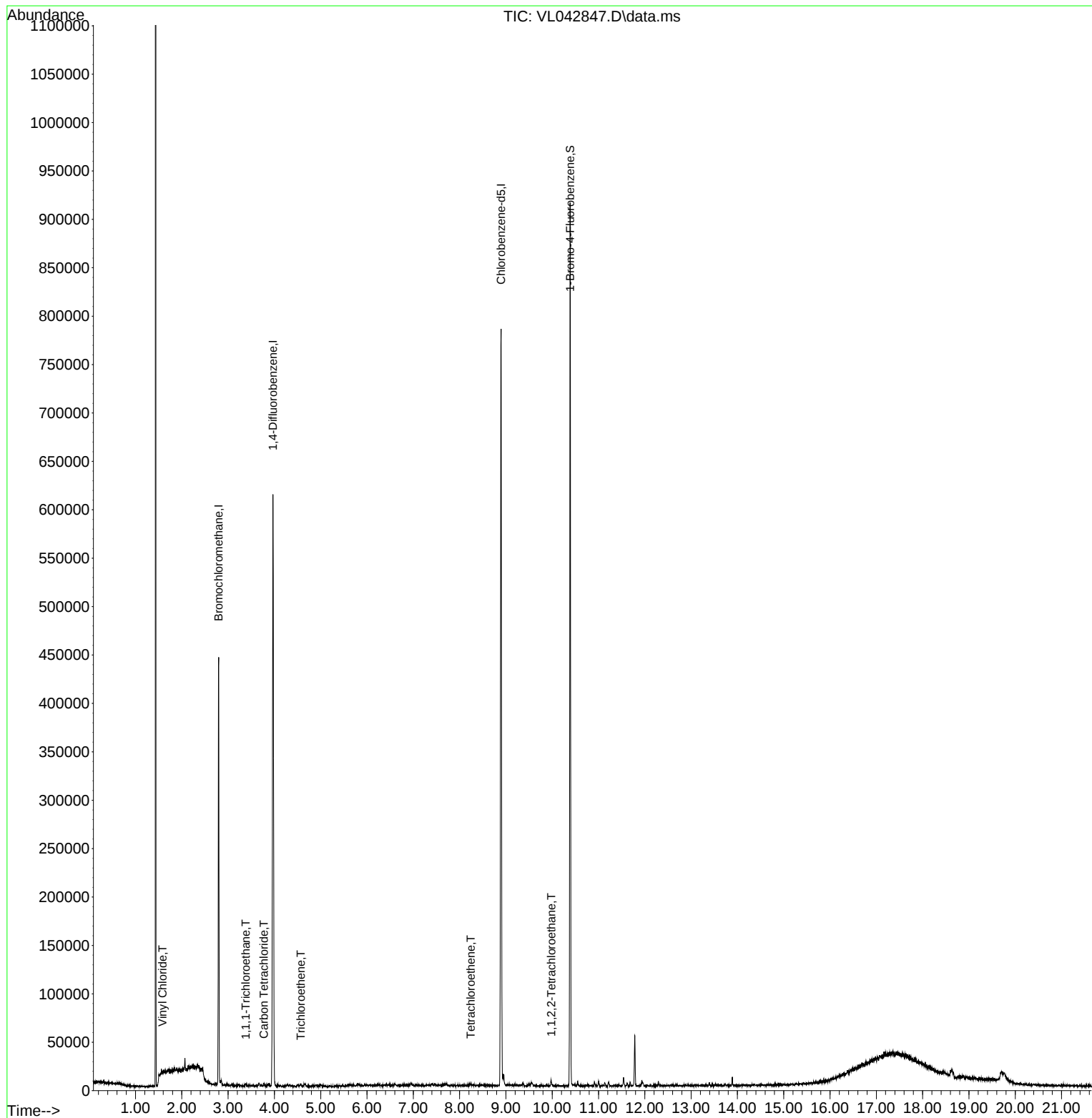
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042847.D
Acq On : 13 Aug 2025 11:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Aug 14 01:50:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
Supervised By : Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	122073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	380877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	337876	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 254655 10.050 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	253151	14.150	ppbv	99
3) Chlorodifluoromethane	1.480	51	275350	13.910	ppbv	99
4) Chloromethane	1.535	50	100974	13.986	ppbv	99
5) Vinyl Chloride	1.583	62	92812	13.053	ppbv	100
6) Bromomethane	1.671	94	37740	13.275	ppbv	96
7) Chloroethane	1.706	64	38398	13.828	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	205386	14.029	ppbv	98
9) Propene	1.486	41	111824	13.094	ppbv	99
10) Heptane	4.988	43	313734	13.742	ppbv	99
11) Trichlorofluoromethane	1.881	101	246354	13.957	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	195231	13.877	ppbv	99
13) Ethanol	1.722	45	8534	10.086	ppbv	98
14) Bromoethene	1.784	108	71671	14.072	ppbv	99
15) Acetone	1.839	43	184116	11.402	ppbv	100
16) 1,3-Butadiene	1.612	39	92068	12.577	ppbv	100
17) tert-Butyl alcohol	2.043	59	244441	12.765	ppbv	100
18) 1,1-Dichloroethene	2.036	96	86349	13.961	ppbv	97
19) Isopropyl Alcohol	1.887	45	124270	12.885	ppbv	99
20) Methylene Chloride	2.065	84	77749	11.494	ppbv	97
21) Allyl Chloride	2.101	41	156318	13.703	ppbv	95
22) trans-1,2-Dichloroethene	2.344	96	100064	14.465	ppbv	95
23) Vinyl Acetate	2.467	43	309236	14.557	ppbv	98
24) 1,1-Dichloroethane	2.412	63	199276	13.944	ppbv	98
25) Ethyl Acetate	2.839	43	533600	13.653	ppbv	99
26) Hexane	2.833	57	250189	13.869	ppbv	98
27) Carbon Disulfide	2.153	76	246868	14.062	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	129978	14.131	ppbv	91
29) Chloroform	2.855	83	360661	14.003	ppbv	99
30) Cyclohexane	3.865	84	222820	14.088	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	249376	13.821	ppbv	96
32) 1,1,1-Trichloroethane	3.376	97	377739	13.851	ppbv	100
34) 2-Butanone	2.561	43	348815	13.563	ppbv	99
35) Carbon Tetrachloride	3.771	117	367354	13.990	ppbv	97
36) Benzene	3.664	78	511811	14.033	ppbv	99
37) 1,2-Dichloroethane	3.224	62	278934	14.639	ppbv	99
38) Trichloroethene	4.558	130	227091	13.634	ppbv	96
39) 1,2-Dichloropropane	4.325	63	186277	13.984	ppbv	95
40) 1,4-Dioxane	4.593	88	82385	13.212	ppbv #	91
41) Tetrahydrofuran	3.056	42	200751	14.001	ppbv	99
42) Bromodichloromethane	4.499	83	408089	14.372	ppbv	97
43) Methyl Methacrylate	4.888	69	206590	13.808	ppbv	99
44) 2,2,4-Trimethylpentane	4.652	57	850847	13.895	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	244117	14.387	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	302339	14.191	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	199067	14.118	ppbv	98
48) Dibromochloromethane	7.399	129	331947	14.535	ppbv	99
49) Bromoform	9.494	173	266732	14.162	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	490917	14.073	ppbv	100
51) 2-Hexanone	7.448	43	389940	14.255	ppbv	100
52) Tetrachloroethene	8.238	164	168712	12.772	ppbv	98
53) Toluene	6.943	91	605941	13.961	ppbv	100
54) 1,2-Dibromoethane	7.665	107	292327	14.173	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.934	131	241293	13.810	ppbv	99
57) Chlorobenzene	8.934	112	439109	13.668	ppbv	99
58) Ethyl Benzene	9.364	91	826316	13.859	ppbv	99
59) m/p-Xylene	9.561	91	1294381m	27.650	ppbv	
60) o-Xylene	9.973	91	629445	13.389	ppbv	100
61) Styrene	9.882	104	304560	13.827	ppbv	99
62) Isopropylbenzene	10.549	105	931574	13.559	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.973	83	342890	13.356	ppbv	98
64) n-propylbenzene	10.999	120	239209	13.646	ppbv	98
65) tert-Butylbenzene	11.539	119	785250	12.965	ppbv	98
66) Benzyl Chloride	11.623	91	104698	13.617	ppbv	99
67) sec-Butylbenzene	11.775	105	1115979	13.127	ppbv	100
69) p-Isopropyltoluene	11.931	119	940888	12.891	ppbv	98
70) n-Butylbenzene	12.287	91	970700	13.410	ppbv	100
71) 2-Chlorotoluene	10.911	91	713696	13.378	ppbv	99
72) 4-Ethyltoluene	11.134	105	782057	13.722	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	650280	13.418	ppbv	99
74) 1,2,4-Trimethylbenzene	11.546	105	691709	13.003	ppbv	95
75) 1,3-Dichlorobenzene	11.617	146	402850	13.321	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	407214	13.314	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	385866	13.031	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	281581	11.602	ppbv	99
79) Naphthalene	13.517	128	658732	13.837	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	251753	14.042	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	329641	13.599	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

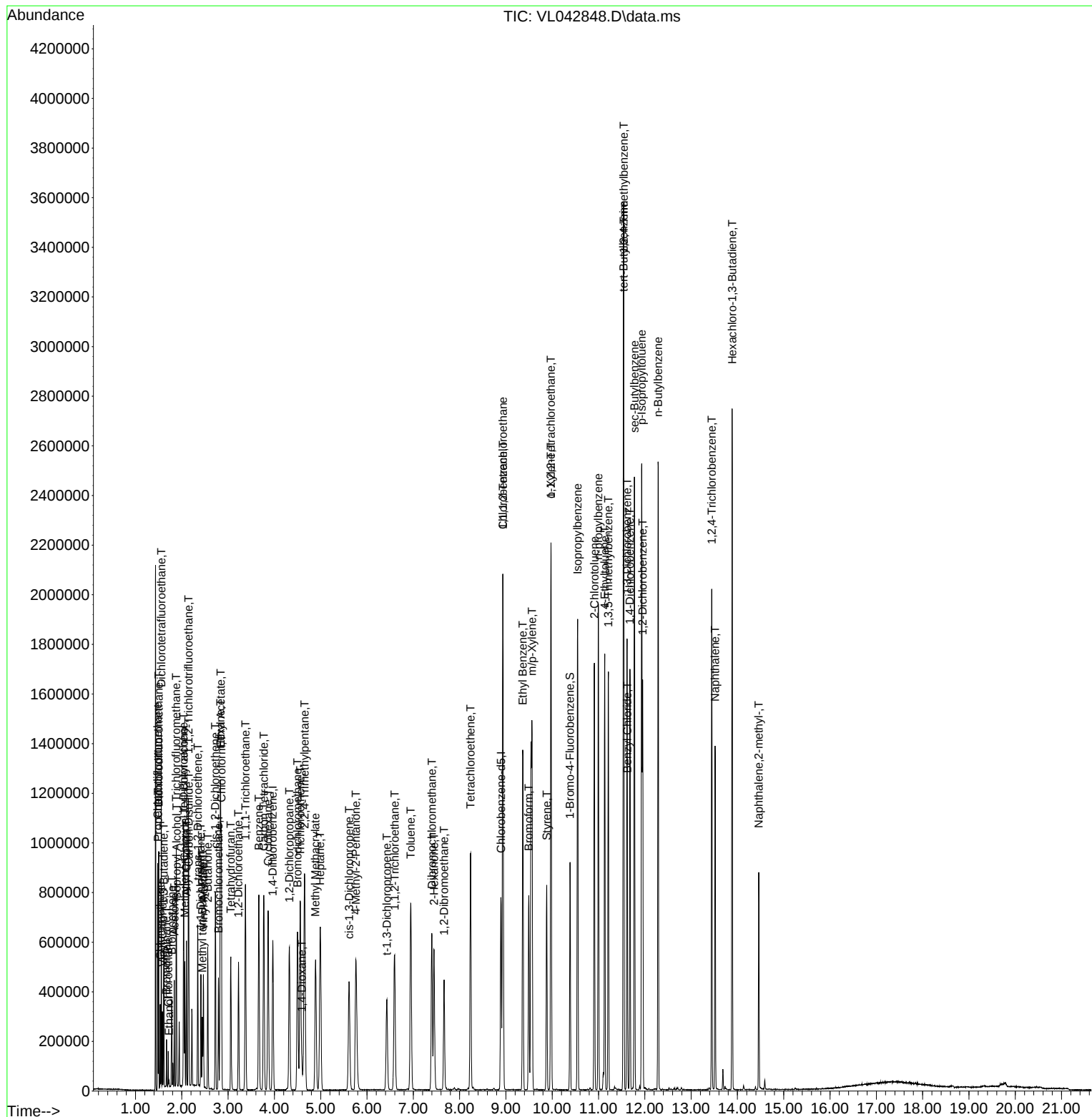
Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122486	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	374448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	333493	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 252268 10.086 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	163446	9.105	ppbv	96
3) Chlorodifluoromethane	1.476	51	185078	9.327	ppbv	100
4) Chloromethane	1.535	50	63634	8.784	ppbv	100
5) Vinyl Chloride	1.583	62	58729	8.232	ppbv	96
6) Bromomethane	1.670	94	25105	8.801	ppbv	97
7) Chloroethane	1.706	64	23293	8.360	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	135845	9.248	ppbv	99
9) Propene	1.483	41	76457	8.922	ppbv	97
10) Heptane	4.988	43	206333	8.990	ppbv	99
11) Trichlorofluoromethane	1.881	101	154211	8.707	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.143	101	124558	8.824	ppbv	99
13) Ethanol	1.722	45	6016	7.678	ppbv	96
14) Bromoethene	1.784	108	46528	9.105	ppbv	98
15) Acetone	1.839	43	119723	7.389	ppbv	99
16) 1,3-Butadiene	1.612	39	60853	8.285	ppbv	99
17) tert-Butyl alcohol	2.043	59	166457	8.663	ppbv	99
18) 1,1-Dichloroethene	2.036	96	56397	9.087	ppbv	94
19) Isopropyl Alcohol	1.887	45	78832	8.146	ppbv	98
20) Methylene Chloride	2.065	84	47793	7.041	ppbv	90
21) Allyl Chloride	2.098	41	102514	8.956	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	63932	8.904	ppbv	95
23) Vinyl Acetate	2.467	43	198083	8.891	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	127660	8.903	ppbv	99
25) Ethyl Acetate	2.839	43	362325	9.240	ppbv	99
26) Hexane	2.829	57	167364	9.246	ppbv	97
27) Carbon Disulfide	2.153	76	155729	8.841	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	82126	8.898	ppbv	92
29) Chloroform	2.855	83	242320	9.377	ppbv	99
30) Cyclohexane	3.865	84	147417	9.289	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	166268	9.196	ppbv	99
32) 1,1,1-Trichloroethane	3.373	97	252813	9.256	ppbv	99
34) 2-Butanone	2.561	43	230961	9.135	ppbv	100
35) Carbon Tetrachloride	3.771	117	244671	9.478	ppbv	95
36) Benzene	3.664	78	343952	9.592	ppbv	98
37) 1,2-Dichloroethane	3.224	62	187160	9.991	ppbv	100
38) Trichloroethene	4.558	130	150693	9.202	ppbv	96
39) 1,2-Dichloropropane	4.324	63	123566	9.436	ppbv	97
40) 1,4-Dioxane	4.590	88	55292	8.879	ppbv #	93
41) Tetrahydrofuran	3.059	42	132108	9.372	ppbv	99
42) Bromodichloromethane	4.499	83	270154	9.678	ppbv	99
43) Methyl Methacrylate	4.888	69	136329	9.229	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	565415	9.290	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	160784	9.645	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	199988m	9.628	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	132548	9.553	ppbv	99
48) Dibromochloromethane	7.399	129	217970	9.708	ppbv	100
49) Bromoform	9.493	173	174914	9.446	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	322264	9.430	ppbv	100
51) 2-Hexanone	7.445	43	263321	9.791	ppbv #	98
52) Tetrachloroethene	8.234	164	110828	8.544	ppbv	89
53) Toluene	6.946	91	398138	9.340	ppbv	100
54) 1,2-Dibromoethane	7.665	107	193340	9.535	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.937	131	160225	9.291	ppbv	99
57) Chlorobenzene	8.933	112	297375	9.378	ppbv	97
58) Ethyl Benzene	9.364	91	554015	9.414	ppbv	100
59) m/p-Xylene	9.561	91	865106m	18.754	ppbv	
60) o-Xylene	9.972	91	428721	9.239	ppbv	99
61) Styrene	9.879	104	203858	9.377	ppbv	100
62) Isopropylbenzene	10.549	105	624287	9.206	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	225237	8.826	ppbv	100
64) n-propylbenzene	10.998	120	158234	9.145	ppbv	97
65) tert-Butylbenzene	11.539	119	534795	8.946	ppbv	98
66) Benzyl Chloride	11.623	91	68533	9.031	ppbv	99
67) sec-Butylbenzene	11.775	105	762602	9.088	ppbv	100
69) p-Isopropyltoluene	11.934	119	634670	8.810	ppbv	98
70) n-Butylbenzene	12.287	91	647453	9.062	ppbv	99
71) 2-Chlorotoluene	10.908	91	485171	9.214	ppbv	98
72) 4-Ethyltoluene	11.131	105	525262	9.338	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	435705	9.108	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	469573	8.943	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	274876	9.209	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	270976	8.976	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	255347	8.736	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	186318	7.778	ppbv	97
79) Naphthalene	13.520	128	441940	9.284	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	145644	8.188	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	215715	9.016	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	92	0.00
2 T	Dichlorodifluoromethane	1.466	1.334	9.0	91	0.00
3	Chlorodifluoromethane	1.620	1.511	6.7	92	0.00
4	Chloromethane	0.591	0.520	12.0	90	0.00
5 T	Vinyl Chloride	0.582	0.479	17.7	88	0.00
6 T	Bromomethane	0.233	0.205	12.0	93	0.00
7	Chloroethane	0.227	0.190	16.3	87	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.109	7.5	91	0.00
9 T	Propene	0.700	0.624	10.9	88	0.00
10 T	Heptane	1.874	1.685	10.1	90	0.00
11 T	Trichlorofluoromethane	1.446	1.259	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.017	11.7	89	0.00
13	Ethanol	0.064	0.049#	23.4	97	0.00
14 T	Bromoethene	0.417	0.380	8.9	92	0.00
15 T	Acetone	1.323	0.977	26.2	95	0.00
16 T	1,3-Butadiene	0.600	0.497	17.2	91	0.00
17	tert-Butyl alcohol	1.569	1.359	13.4	91	0.00
18 T	1,1-Dichloroethene	0.507	0.460	9.3	90	0.00
19 T	Isopropyl Alcohol	0.790	0.644	18.5	91	0.00
20 T	Methylene Chloride	0.554	0.390	29.6	87	0.00
21 T	Allyl Chloride	0.935	0.837	10.5	91	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.522	10.9	89	0.00
23 T	Vinyl Acetate	1.819	1.617	11.1	89	0.00
24 T	1,1-Dichloroethane	1.171	1.042	11.0	92	0.00
25 T	Ethyl Acetate	3.202	2.958	7.6	93	0.00
26 T	Hexane	1.478	1.366	7.6	90	0.00
27 T	Carbon Disulfide	1.438	1.271	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.670	11.1	93	0.00
29 T	Chloroform	2.110	1.978	6.3	94	0.00
30 T	Cyclohexane	1.296	1.204	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.357	8.1	93	0.00
32 T	1,1,1-Trichloroethane	2.230	2.064	7.4	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.675	0.617	8.6	92	0.00
35 T	Carbon Tetrachloride	0.689	0.653	5.2	93	0.00
36 T	Benzene	0.958	0.919	4.1	91	0.00
37 T	1,2-Dichloroethane	0.500	0.500	0.0	94	0.00
38 T	Trichloroethene	0.437	0.402	8.0	91	0.00
39 T	1,2-Dichloropropane	0.350	0.330	5.7	92	0.00
40 T	1,4-Dioxane	0.166	0.148	10.8	90	0.00
41 T	Tetrahydrofuran	0.376	0.353	6.1	90	0.00
42 T	Bromodichloromethane	0.745	0.721	3.2	92	0.00
43	Methyl Methacrylate	0.394	0.364	7.6	90	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.510	7.1	90	0.00
45 T	t-1,3-Dichloropropene	0.445	0.429	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.534	3.8	90	0.00
47 T	1,1,2-Trichloroethane	0.371	0.354	4.6	94	0.00
48 T	Dibromochloromethane	0.600	0.582	3.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	0.495	0.467	5.7	86	0.00
50 T	4-Methyl-2-Pentanone	0.913	0.861	5.7	88	0.00
51 T	2-Hexanone	0.718	0.703	2.1	91	0.00
52 T	Tetrachloroethene	0.346	0.296	14.5	86	0.00
53 T	Toluene	1.138	1.063	6.6	90	0.00
54 T	1,2-Dibromoethane	0.542	0.516	4.8	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.480	7.2	91	0.00
57 T	Chlorobenzene	0.951	0.892	6.2	91	0.00
58 T	Ethyl Benzene	1.765	1.661	5.9	91	0.00
59 T	m/p-Xylene	1.383	1.297	6.2	91	0.02
60 T	o-Xylene	1.391	1.286	7.5	91	0.00
61 T	Styrene	0.652	0.611	6.3	90	0.00
62	Isopropylbenzene	2.033	1.872	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.675	11.8	90	0.00
64	n-propylbenzene	0.519	0.474	8.7	90	0.00
65	tert-Butylbenzene	1.793	1.604	10.5	90	0.00
66 T	Benzyl Chloride	0.228	0.206	9.6	81	0.00
67	sec-Butylbenzene	2.516	2.287	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.756	-0.8	90	0.00
69	p-Isopropyltoluene	2.160	1.903	11.9	90	0.00
70	n-Butylbenzene	2.142	1.941	9.4	91	0.00
71	2-Chlorotoluene	1.579	1.455	7.9	92	0.00
72 T	4-Ethyltoluene	1.687	1.575	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.306	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.408	10.5	91	0.00
75 T	1,3-Dichlorobenzene	0.895	0.824	7.9	89	0.00
76 T	1,4-Dichlorobenzene	0.905	0.813	10.2	88	0.00
77 T	1,2-Dichlorobenzene	0.876	0.766	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.559	22.1	88	0.00
79 T	Naphthalene	1.427	1.325	7.1	91	0.00
80 T	Naphthalene,2-methyl-	0.533	0.437	18.0	82	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.647	9.8	88	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	92	0.00
2 T	Dichlorodifluoromethane	10.000	9.105	8.9	91	0.00
3	Chlorodifluoromethane	10.000	9.327	6.7	92	0.00
4	Chloromethane	10.000	8.784	12.2	90	0.00
5 T	Vinyl Chloride	10.000	8.232	17.7	88	0.00
6 T	Bromomethane	10.000	8.801	12.0	93	0.00
7	Chloroethane	10.000	8.360	16.4	87	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.248	7.5	91	0.00
9 T	Propene	10.000	8.922	10.8	88	0.00
10 T	Heptane	10.000	8.990	10.1	90	0.00
11 T	Trichlorofluoromethane	10.000	8.707	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.824	11.8	89	0.00
13	Ethanol	10.000	7.678	23.2	97	0.00
14 T	Bromoethene	10.000	9.105	8.9	92	0.00
15 T	Acetone	10.000	7.389	26.1	95	0.00
16 T	1,3-Butadiene	10.000	8.285	17.1	91	0.00
17	tert-Butyl alcohol	10.000	8.663	13.4	91	0.00
18 T	1,1-Dichloroethene	10.000	9.087	9.1	90	0.00
19 T	Isopropyl Alcohol	10.000	8.146	18.5	91	0.00
20 T	Methylene Chloride	10.000	7.041	29.6	87	0.00
21 T	Allyl Chloride	10.000	8.956	10.4	91	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.904	11.0	89	0.00
23 T	Vinyl Acetate	10.000	8.891	11.1	89	0.00
24 T	1,1-Dichloroethane	10.000	8.903	11.0	92	0.00
25 T	Ethyl Acetate	10.000	9.240	7.6	93	0.00
26 T	Hexane	10.000	9.246	7.5	90	0.00
27 T	Carbon Disulfide	10.000	8.841	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.898	11.0	93	0.00
29 T	Chloroform	10.000	9.377	6.2	94	0.00
30 T	Cyclohexane	10.000	9.289	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.196	8.0	93	0.00
32 T	1,1,1-Trichloroethane	10.000	9.256	7.4	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.135	8.7	92	0.00
35 T	Carbon Tetrachloride	10.000	9.478	5.2	93	0.00
36 T	Benzene	10.000	9.592	4.1	91	0.00
37 T	1,2-Dichloroethane	10.000	9.991	0.1	94	0.00
38 T	Trichloroethene	10.000	9.202	8.0	91	0.00
39 T	1,2-Dichloropropane	10.000	9.436	5.6	92	0.00
40 T	1,4-Dioxane	10.000	8.879	11.2	90	0.00
41 T	Tetrahydrofuran	10.000	9.372	6.3	90	0.00
42 T	Bromodichloromethane	10.000	9.678	3.2	92	0.00
43	Methyl Methacrylate	10.000	9.229	7.7	90	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.290	7.1	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.645	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.628	3.7	90	0.00
47 T	1,1,2-Trichloroethane	10.000	9.553	4.5	94	0.00
48 T	Dibromochloromethane	10.000	9.708	2.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	9.446	5.5	86	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.430	5.7	88	0.00
51 T	2-Hexanone	10.000	9.791	2.1	91	0.00
52 T	Tetrachloroethene	10.000	8.544	14.6	86	0.00
53 T	Toluene	10.000	9.340	6.6	90	0.00
54 T	1,2-Dibromoethane	10.000	9.535	4.6	92	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.291	7.1	91	0.00
57 T	Chlorobenzene	10.000	9.378	6.2	91	0.00
58 T	Ethyl Benzene	10.000	9.414	5.9	91	0.00
59 T	m/p-Xylene	20.000	18.754	6.2	91	0.02
60 T	o-Xylene	10.000	9.239	7.6	91	0.00
61 T	Styrene	10.000	9.377	6.2	90	0.00
62	Isopropylbenzene	10.000	9.206	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.826	11.7	90	0.00
64	n-propylbenzene	10.000	9.145	8.6	90	0.00
65	tert-Butylbenzene	10.000	8.946	10.5	90	0.00
66 T	Benzyl Chloride	10.000	9.031	9.7	81	0.00
67	sec-Butylbenzene	10.000	9.088	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.086	-0.9	90	0.00
69	p-Isopropyltoluene	10.000	8.810	11.9	90	0.00
70	n-Butylbenzene	10.000	9.062	9.4	91	0.00
71	2-Chlorotoluene	10.000	9.214	7.9	92	0.00
72 T	4-Ethyltoluene	10.000	9.338	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.108	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.943	10.6	91	0.00
75 T	1,3-Dichlorobenzene	10.000	9.209	7.9	89	0.00
76 T	1,4-Dichlorobenzene	10.000	8.976	10.2	88	0.00
77 T	1,2-Dichlorobenzene	10.000	8.736	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.778	22.2	88	0.00
79 T	Naphthalene	10.000	9.284	7.2	91	0.00
80 T	Naphthalene,2-methyl-	10.000	8.188	18.1	82	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.016	9.8	88	0.00

(#) = Out of Range

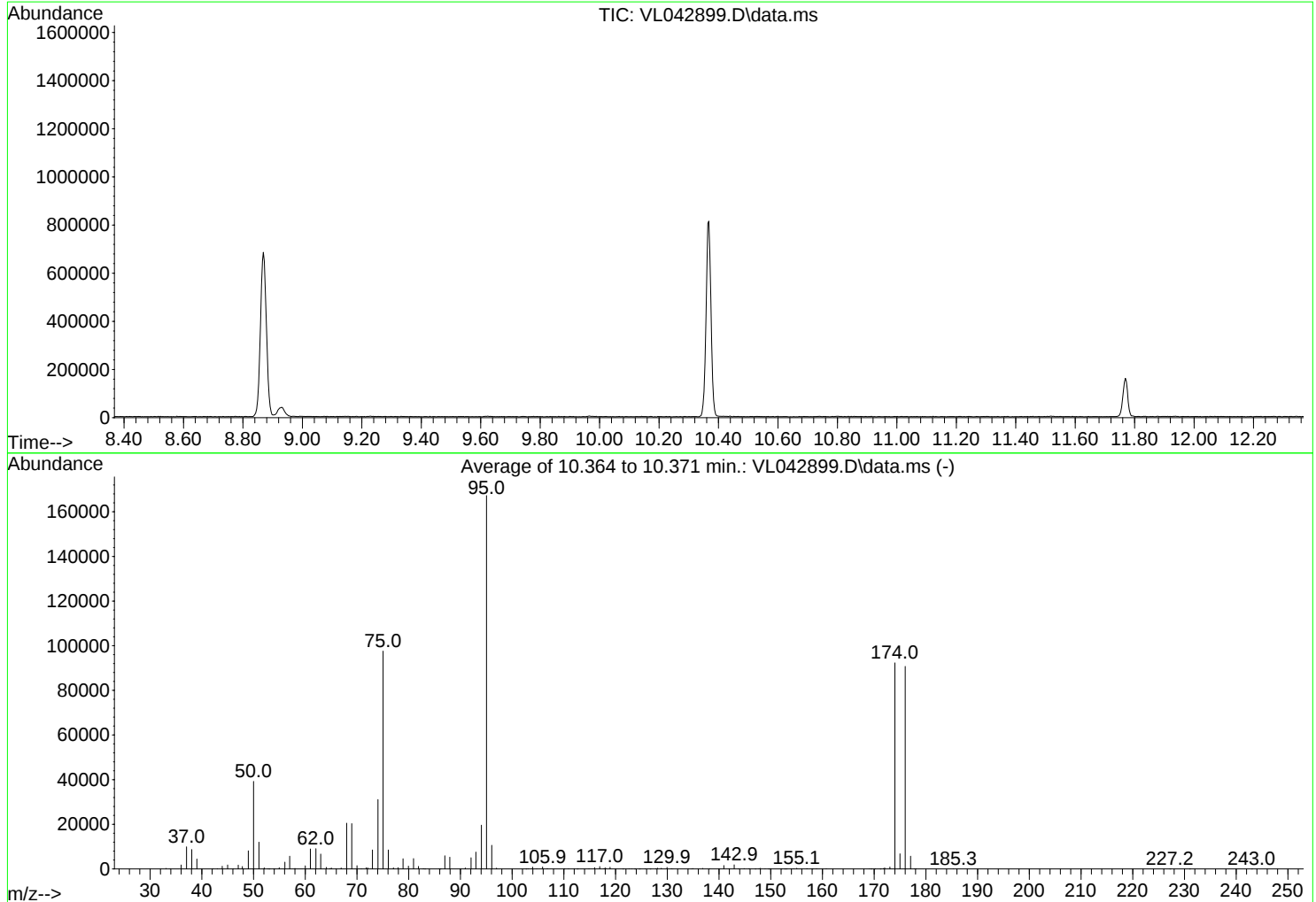
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042899.D
Acq On : 08 Sep 2025 08:41
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\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 09 00:52:26 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3159

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.4	39187	PASS
75	95	30	66	58.3	97600	PASS
95	95	100	100	100.0	167275	PASS
96	95	5	9	6.4	10626	PASS
173	174	0.00	2	1.0	912	PASS
174	95	50	120	55.2	92299	PASS
175	174	4	9	7.3	6771	PASS
176	174	93	101	98.3	90712	PASS
177	176	5	9	6.3	5742	PASS

Average of 10.364 to 10.371 min.: VL042899.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	277	47.05	1703	57.00	5718	68.00	2049
33.90	76	47.85	1098	58.00	264	69.00	2031
36.00	1753	49.00	8120	60.00	1371	70.00	145
37.05	9902	50.00	39187	61.00	8956	70.85	8
38.05	8709	51.05	12023	62.05	9092	71.80	573
39.05	4451	52.05	538	63.00	6674	72.10	455
42.20	43	52.80	70	64.10	689	73.00	8527
43.00	155	53.00	34	64.80	191	74.05	31123
43.95	1185	53.90	19	65.05	457	75.05	97600
45.00	1756	54.95	607	65.95	113	76.05	8503
46.10	88	56.05	3033	66.95	475	77.05	485

Average of 10.364 to 10.371 min.: VL042899.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.95	573	87.95	5283	104.75	99	118.05	490
78.90	4606	90.95	451	105.90	886	118.95	748
79.95	1303	92.05	4997	106.80	189	121.40	28
80.95	4620	93.00	7539	110.15	132	122.65	45
81.90	1148	94.05	19635	110.90	167	123.10	45
82.70	56	95.05	167275	112.00	165	123.70	23
82.90	163	96.05	10626	112.60	37	124.60	30
83.10	23	97.00	366	114.85	160	125.75	80
85.90	69	102.70	25	115.95	603	126.70	21
86.10	24	103.10	60	116.95	1113	127.80	118
87.00	5921	103.95	835	117.80	269	128.10	385

Average of 10.364 to 10.371 min.: VL042899.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.85	290	141.95	142	152.00	18	169.10	55
129.95	727	142.95	1818	152.70	36	169.40	20
130.80	191	143.80	58	153.00	24	170.20	135
131.10	55	144.85	184	154.00	144	171.20	19
134.05	42	145.85	181	154.45	64	171.80	185
134.70	75	147.00	27	155.05	308	172.05	532
134.95	219	147.70	102	156.00	56	173.05	912
136.85	269	147.95	342	157.00	194	174.00	92299
138.20	68	148.90	78	158.00	17	175.00	6771
140.00	141	149.60	29	158.85	156	176.00	90712
140.95	1550	150.00	159	160.75	151	177.05	5742

Average of 10.364 to 10.371 min.: VL042899.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.85	114						
178.10	127						
185.30	42						
227.20	22						
231.00	19						
243.00	18						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025
 Supervised By : Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	126678	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	333606	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	282770	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 222314 10.483 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	195136	10.511	ppbv	100
3) Chlorodifluoromethane	1.470	51	223887	10.910	ppbv	98
4) Chloromethane	1.528	50	74830	9.988	ppbv	99
5) Vinyl Chloride	1.577	62	70899	9.609	ppbv	99
6) Bromomethane	1.664	94	28498	9.659	ppbv	99
7) Chloroethane	1.700	64	28496	9.889	ppbv	89
8) Dichlorotetrafluoroethane	1.551	85	158303	10.420	ppbv	96
9) Propene	1.476	41	88702	10.009	ppbv	99
10) Heptane	4.959	43	234952	9.898	ppbv	98
11) Trichlorofluoromethane	1.871	101	188309	10.280	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	147287	10.089	ppbv	96
13) Ethanol	1.716	45	6525	8.052	ppbv	98
14) Bromoethene	1.777	108	53755	10.171	ppbv	99
15) Acetone	1.829	43	145289	8.670	ppbv	98
16) 1,3-Butadiene	1.602	39	70713	9.308	ppbv	100
17) tert-Butyl alcohol	2.033	59	170394	8.574	ppbv	99
18) 1,1-Dichloroethene	2.026	96	63544	9.900	ppbv	94
19) Isopropyl Alcohol	1.881	45	89009	8.893	ppbv	95
20) Methylene Chloride	2.056	84	57698	8.219	ppbv	93
21) Allyl Chloride	2.088	41	114332	9.658	ppbv	94
22) trans-1,2-Dichloroethene	2.331	96	74045	9.971	ppbv	93
23) Vinyl Acetate	2.454	43	228268	9.907	ppbv #	97
24) 1,1-Dichloroethane	2.402	63	152618	10.291	ppbv	99
25) Ethyl Acetate	2.826	43	415386	10.242	ppbv	99
26) Hexane	2.816	57	187779	10.031	ppbv	95
27) Carbon Disulfide	2.143	76	193262	10.608	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	85774	8.986	ppbv	93
29) Chloroform	2.839	83	281659	10.538	ppbv	98
30) Cyclohexane	3.842	84	153066	9.326	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	182592	9.765	ppbv	99
32) 1,1,1-Trichloroethane	3.357	97	271429	9.609	ppbv	96
34) 2-Butanone	2.548	43	272735	12.107	ppbv	98
35) Carbon Tetrachloride	3.748	117	269097	11.700	ppbv	99
36) Benzene	3.645	78	366027	11.458	ppbv	97
37) 1,2-Dichloroethane	3.208	62	211728	12.686	ppbv	98
38) Trichloroethene	4.532	130	151915	10.413	ppbv	95
39) 1,2-Dichloropropane	4.299	63	139657	11.970	ppbv	96
40) 1,4-Dioxane	4.561	88	56013	10.096	ppbv #	88
41) Tetrahydrofuran	3.043	42	148990	11.863	ppbv	96
42) Bromodichloromethane	4.473	83	301814	12.136	ppbv	98
43) Methyl Methacrylate	4.859	69	141813	10.776	ppbv	95
44) 2,2,4-Trimethylpentane	4.622	57	631245	11.642	ppbv	99
45) t-1,3-Dichloropropene	6.393	75	154622	10.411	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	200797	10.851	ppbv	98
47) 1,1,2-Trichloroethane	6.561	97	144209	11.666	ppbv	98
48) Dibromochloromethane	7.370	129	228649	11.430	ppbv	100
49) Bromoform	9.471	173	184068	11.158	ppbv	98
50) 4-Methyl-2-Pentanone	5.729	43	359329	11.801	ppbv	96
51) 2-Hexanone	7.419	43	284454	11.872	ppbv #	95
52) Tetrachloroethene	8.212	164	110334	9.547	ppbv	98
53) Toluene	6.914	91	402080	10.587	ppbv	100
54) 1,2-Dibromoethane	7.636	107	204276	11.307	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.914	131	170319	11.648	ppbv	99
57) Chlorobenzene	8.911	112	311373	11.581	ppbv	97
58) Ethyl Benzene	9.345	91	558102	11.184	ppbv	99
59) m/p-Xylene	9.539	91	914783m	23.388	ppbv	
60) o-Xylene	9.953	91	460968	11.716	ppbv	100
61) Styrene	9.859	104	195007	10.579	ppbv	99
62) Isopropylbenzene	10.529	105	655164	11.394	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.953	83	266435	12.314	ppbv	100
64) n-propylbenzene	10.979	120	164610	11.220	ppbv	90
65) tert-Butylbenzene	11.523	119	561409	11.075	ppbv	97
66) Benzyl Chloride	11.607	91	50803	7.895	ppbv #	98
67) sec-Butylbenzene	11.759	105	833114	11.709	ppbv	98
69) p-Isopropyltoluene	11.918	119	667558	10.929	ppbv	99
70) n-Butylbenzene	12.274	91	711012	11.736	ppbv	98
71) 2-Chlorotoluene	10.892	91	498072	11.156	ppbv	97
72) 4-Ethyltoluene	11.118	105	554411	11.624	ppbv	98
73) 1,3,5-Trimethylbenzene	11.196	105	450409	11.105	ppbv	98
74) 1,2,4-Trimethylbenzene	11.529	105	508605	11.424	ppbv	95
75) 1,3-Dichlorobenzene	11.597	146	289650	11.445	ppbv	99
76) 1,4-Dichlorobenzene	11.662	146	287352	11.226	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	281307	11.351	ppbv	99
78) Hexachloro-1,3-Butadiene	13.873	225	167893	8.266	ppbv	99
79) Naphthalene	13.504	128	428355	10.613	ppbv	99
80) Naphthalene,2-methyl-	14.449	142	127751	8.470	ppbv	96
81) 1,2,4-Trichlorobenzene	13.432	180	207455	10.226	ppbv	99

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

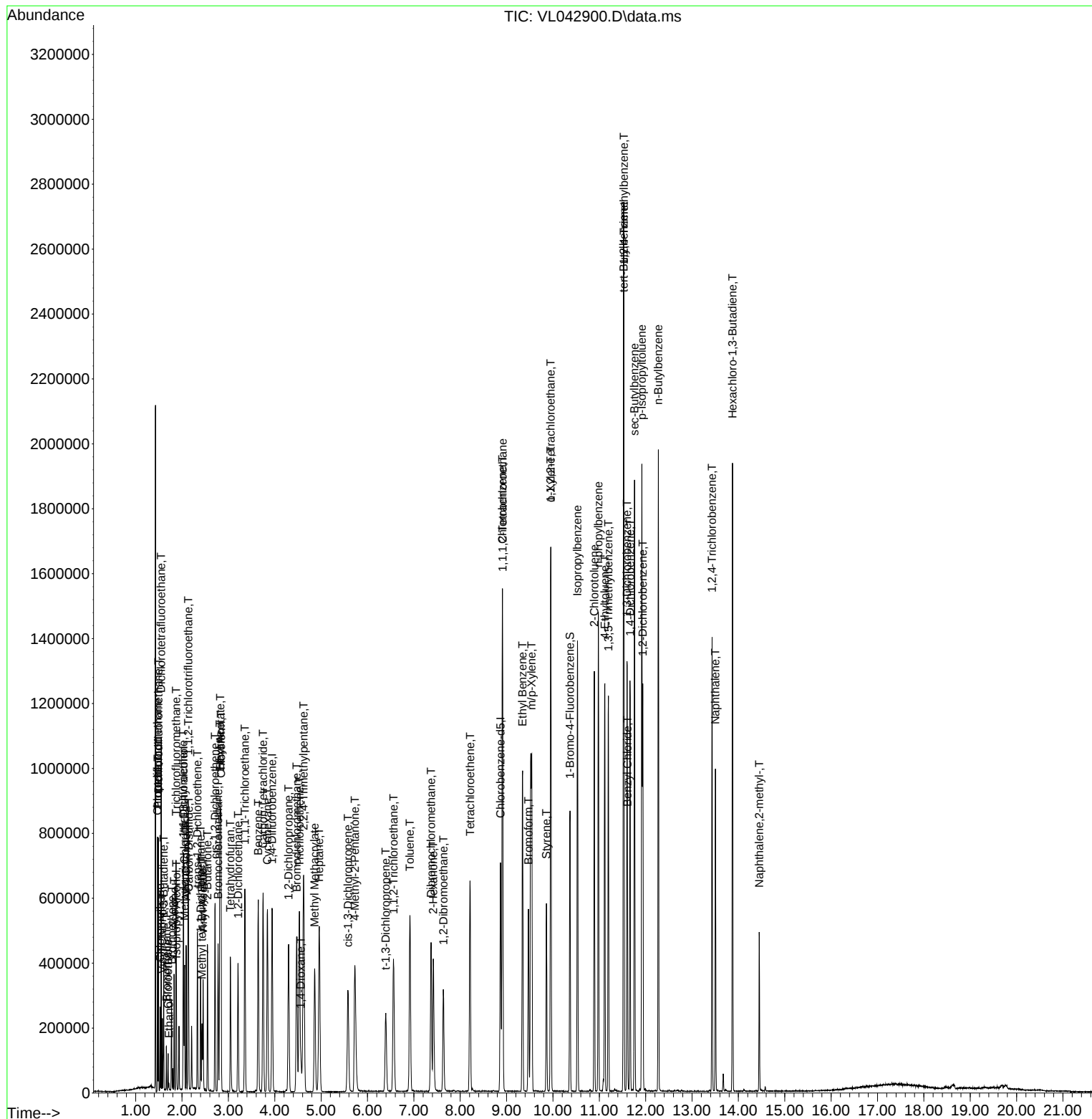
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025
 Supervised By : Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	95	0.00
2 T	Dichlorodifluoromethane	1.466	1.540	-5.0	109	0.00
3	Chlorodifluoromethane	1.620	1.767	-9.1	111	0.00
4	Chloromethane	0.591	0.591	0.0	105	0.00
5 T	Vinyl Chloride	0.582	0.560	3.8	106	0.00
6 T	Bromomethane	0.233	0.225	3.4	106	0.00
7	Chloroethane	0.227	0.225	0.9	106	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.250	-4.3	106	0.00
9 T	Propene	0.700	0.700	0.0	102	0.00
10 T	Heptane	1.874	1.855	1.0	103	0.00
11 T	Trichlorofluoromethane	1.446	1.487	-2.8	111	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.163	-1.0	106	0.00
13	Ethanol	0.064	0.052	18.8	106	0.00
14 T	Bromoethene	0.417	0.424	-1.7	106	0.00
15 T	Acetone	1.323	1.147	13.3	115	0.00
16 T	1,3-Butadiene	0.600	0.558	7.0	106	0.00
17	tert-Butyl alcohol	1.569	1.345	14.3	93	0.00
18 T	1,1-Dichloroethene	0.507	0.502	1.0	102	0.00
19 T	Isopropyl Alcohol	0.790	0.703	11.0	103	0.00
20 T	Methylene Chloride	0.554	0.455	17.9	105	0.00
21 T	Allyl Chloride	0.935	0.903	3.4	101	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.585	0.2	104	0.00
23 T	Vinyl Acetate	1.819	1.802	0.9	103	0.00
24 T	1,1-Dichloroethane	1.171	1.205	-2.9	110	0.00
25 T	Ethyl Acetate	3.202	3.279	-2.4	106	0.00
26 T	Hexane	1.478	1.482	-0.3	101	0.00
27 T	Carbon Disulfide	1.438	1.526	-6.1	110	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.677	10.2	98	0.00
29 T	Chloroform	2.110	2.223	-5.4	110	0.00
30 T	Cyclohexane	1.296	1.208	6.8	95	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.441	2.4	102	0.00
32 T	1,1,1-Trichloroethane	2.230	2.143	3.9	102	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
34 T	2-Butanone	0.675	0.818	-21.2	108	0.00
35 T	Carbon Tetrachloride	0.689	0.807	-17.1	102	0.00
36 T	Benzene	0.958	1.097	-14.5	97	0.00
37 T	1,2-Dichloroethane	0.500	0.635	-27.0	106	0.00
38 T	Trichloroethene	0.437	0.455	-4.1	92	0.00
39 T	1,2-Dichloropropane	0.350	0.419	-19.7	104	0.00
40 T	1,4-Dioxane	0.166	0.168	-1.2	91	0.00
41 T	Tetrahydrofuran	0.376	0.447	-18.9	101	0.00
42 T	Bromodichloromethane	0.745	0.905	-21.5	103	0.00
43	Methyl Methacrylate	0.394	0.425	-7.9	93	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.892	-16.4	101	0.00
45 T	t-1,3-Dichloropropene	0.445	0.463	-4.0	87	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.602	-8.5	90	0.00
47 T	1,1,2-Trichloroethane	0.371	0.432	-16.4	102	0.00
48 T	Dibromochloromethane	0.600	0.685	-14.2	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	0.495	0.552	-11.5	91	0.00
50 T	4-Methyl-2-Pentanone	0.913	1.077	-18.0	99	0.00
51 T	2-Hexanone	0.718	0.853	-18.8	98	0.00
52 T	Tetrachloroethene	0.346	0.331	4.3	85	0.00
53 T	Toluene	1.138	1.205	-5.9	91	0.00
54 T	1,2-Dibromoethane	0.542	0.612	-12.9	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.602	-16.4	97	0.00
57 T	Chlorobenzene	0.951	1.101	-15.8	96	0.00
58 T	Ethyl Benzene	1.765	1.974	-11.8	92	0.00
59 T	m/p-Xylene	1.383	1.618	-17.0	96	0.00
60 T	o-Xylene	1.391	1.630	-17.2	98	0.00
61 T	Styrene	0.652	0.690	-5.8	86	0.00
62	Isopropylbenzene	2.033	2.317	-14.0	96	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.942	-23.1	107	0.00
64	n-propylbenzene	0.519	0.582	-12.1	94	0.00
65	tert-Butylbenzene	1.793	1.985	-10.7	94	0.00
66 T	Benzyl Chloride	0.228	0.180	21.1	60	0.00
67	sec-Butylbenzene	2.516	2.946	-17.1	100	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.786	-4.8	80	0.00
69	p-Isopropyltoluene	2.160	2.361	-9.3	95	0.00
70	n-Butylbenzene	2.142	2.514	-17.4	100	0.00
71	2-Chlorotoluene	1.579	1.761	-11.5	95	0.00
72 T	4-Ethyltoluene	1.687	1.961	-16.2	96	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.593	-11.1	94	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.799	-14.3	99	0.00
75 T	1,3-Dichlorobenzene	0.895	1.024	-14.4	94	0.00
76 T	1,4-Dichlorobenzene	0.905	1.016	-12.3	93	0.00
77 T	1,2-Dichlorobenzene	0.876	0.995	-13.6	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.594	17.3	79	0.00
79 T	Naphthalene	1.427	1.515	-6.2	88	0.00
80 T	Naphthalene,2-methyl-	0.533	0.452	15.2	72	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.734	-2.4	85	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	95	0.00
2 T	Dichlorodifluoromethane	10.000	10.511	-5.1	109	0.00
3	Chlorodifluoromethane	10.000	10.910	-9.1	111	0.00
4	Chloromethane	10.000	9.988	0.1	105	0.00
5 T	Vinyl Chloride	10.000	9.609	3.9	106	0.00
6 T	Bromomethane	10.000	9.659	3.4	106	0.00
7	Chloroethane	10.000	9.889	1.1	106	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.420	-4.2	106	0.00
9 T	Propene	10.000	10.009	-0.1	102	0.00
10 T	Heptane	10.000	9.898	1.0	103	0.00
11 T	Trichlorofluoromethane	10.000	10.280	-2.8	111	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.089	-0.9	106	0.00
13	Ethanol	10.000	8.052	19.5	106	0.00
14 T	Bromoethene	10.000	10.171	-1.7	106	0.00
15 T	Acetone	10.000	8.670	13.3	115	0.00
16 T	1,3-Butadiene	10.000	9.308	6.9	106	0.00
17	tert-Butyl alcohol	10.000	8.574	14.3	93	0.00
18 T	1,1-Dichloroethene	10.000	9.900	1.0	102	0.00
19 T	Isopropyl Alcohol	10.000	8.893	11.1	103	0.00
20 T	Methylene Chloride	10.000	8.219	17.8	105	0.00
21 T	Allyl Chloride	10.000	9.658	3.4	101	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.971	0.3	104	0.00
23 T	Vinyl Acetate	10.000	9.907	0.9	103	0.00
24 T	1,1-Dichloroethane	10.000	10.291	-2.9	110	0.00
25 T	Ethyl Acetate	10.000	10.242	-2.4	106	0.00
26 T	Hexane	10.000	10.031	-0.3	101	0.00
27 T	Carbon Disulfide	10.000	10.608	-6.1	110	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.986	10.1	98	0.00
29 T	Chloroform	10.000	10.538	-5.4	110	0.00
30 T	Cyclohexane	10.000	9.326	6.7	95	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.765	2.3	102	0.00
32 T	1,1,1-Trichloroethane	10.000	9.609	3.9	102	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	81	0.00
34 T	2-Butanone	10.000	12.107	-21.1	108	0.00
35 T	Carbon Tetrachloride	10.000	11.700	-17.0	102	0.00
36 T	Benzene	10.000	11.458	-14.6	97	0.00
37 T	1,2-Dichloroethane	10.000	12.686	-26.9	106	0.00
38 T	Trichloroethene	10.000	10.413	-4.1	92	0.00
39 T	1,2-Dichloropropane	10.000	11.970	-19.7	104	0.00
40 T	1,4-Dioxane	10.000	10.096	-1.0	91	0.00
41 T	Tetrahydrofuran	10.000	11.863	-18.6	101	0.00
42 T	Bromodichloromethane	10.000	12.136	-21.4	103	0.00
43	Methyl Methacrylate	10.000	10.776	-7.8	93	0.00
44 T	2,2,4-Trimethylpentane	10.000	11.642	-16.4	101	0.00
45 T	t-1,3-Dichloropropene	10.000	10.411	-4.1	87	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.851	-8.5	90	0.00
47 T	1,1,2-Trichloroethane	10.000	11.666	-16.7	102	0.00
48 T	Dibromochloromethane	10.000	11.430	-14.3	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	11.158	-11.6	91	0.00
50 T	4-Methyl-2-Pentanone	10.000	11.801	-18.0	99	0.00
51 T	2-Hexanone	10.000	11.872	-18.7	98	0.00
52 T	Tetrachloroethene	10.000	9.547	4.5	85	0.00
53 T	Toluene	10.000	10.587	-5.9	91	0.00
54 T	1,2-Dibromoethane	10.000	11.307	-13.1	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	76	0.00
56	1,1,1,2-Tetrachloroethane	10.000	11.648	-16.5	97	0.00
57 T	Chlorobenzene	10.000	11.581	-15.8	96	0.00
58 T	Ethyl Benzene	10.000	11.184	-11.8	92	0.00
59 T	m/p-Xylene	20.000	23.388	-16.9	96	0.00
60 T	o-Xylene	10.000	11.716	-17.2	98	0.00
61 T	Styrene	10.000	10.579	-5.8	86	0.00
62	Isopropylbenzene	10.000	11.394	-13.9	96	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	12.314	-23.1	107	0.00
64	n-propylbenzene	10.000	11.220	-12.2	94	0.00
65	tert-Butylbenzene	10.000	11.075	-10.7	94	0.00
66 T	Benzyl Chloride	10.000	7.895	21.1	60	0.00
67	sec-Butylbenzene	10.000	11.709	-17.1	100	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.483	-4.8	80	0.00
69	p-Isopropyltoluene	10.000	10.929	-9.3	95	0.00
70	n-Butylbenzene	10.000	11.736	-17.4	100	0.00
71	2-Chlorotoluene	10.000	11.156	-11.6	95	0.00
72 T	4-Ethyltoluene	10.000	11.624	-16.2	96	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.105	-11.1	94	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.424	-14.2	99	0.00
75 T	1,3-Dichlorobenzene	10.000	11.445	-14.5	94	0.00
76 T	1,4-Dichlorobenzene	10.000	11.226	-12.3	93	0.00
77 T	1,2-Dichlorobenzene	10.000	11.351	-13.5	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.266	17.3	79	0.00
79 T	Naphthalene	10.000	10.613	-6.1	88	0.00
80 T	Naphthalene,2-methyl-	10.000	8.470	15.3	72	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.226	-2.3	85	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042901.D
 Acq On : 08 Sep 2025 11:55
 Operator : SY/MD
 Sample : VL0908ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABL01

Quant Time: Sep 09 00:55:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	141293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	355217	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	298537	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	227668	10.169	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%

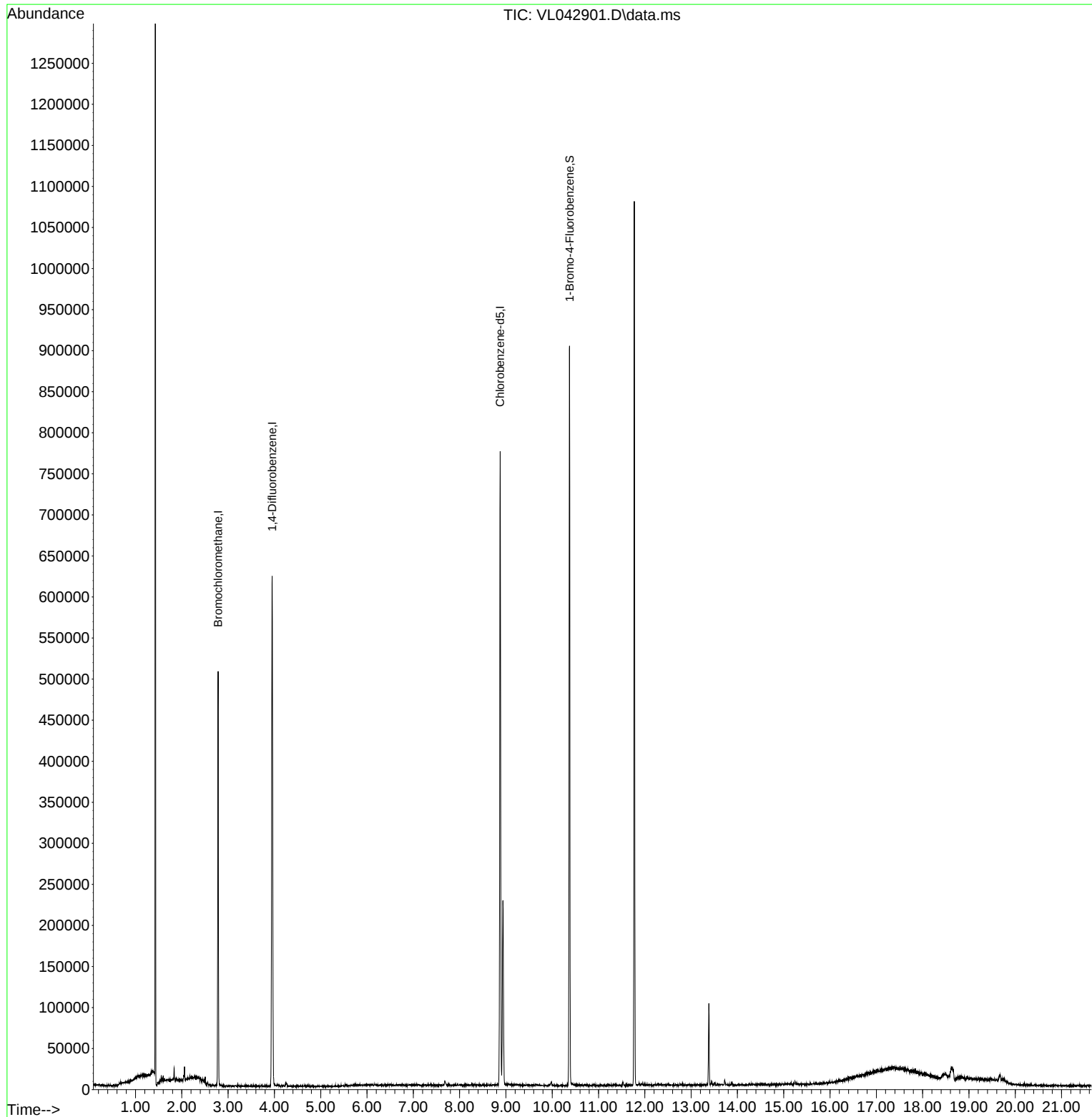
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042901.D
Acq On : 08 Sep 2025 11:55
Operator : SY/MD
Sample : VL0908ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

Quant Time: Sep 09 00:55:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042902.D
 Acq On : 08 Sep 2025 13:35
 Operator : SY/MD
 Sample : VL0908ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:55:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	139945	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	365857	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	306385	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 240840 10.481 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	220085	10.731	ppbv	99
3) Chlorodifluoromethane	1.470	51	263595	11.627	ppbv	98
4) Chloromethane	1.528	50	84783	10.244	ppbv	99
5) Vinyl Chloride	1.577	62	78545	9.636	ppbv	99
6) Bromomethane	1.664	94	31405	9.636	ppbv	96
7) Chloroethane	1.700	64	30810	9.679	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	175617	10.464	ppbv	96
9) Propene	1.476	41	56496m	5.770	ppbv	
10) Heptane	4.965	43	256593	9.785	ppbv	99
11) Trichlorofluoromethane	1.871	101	206104	10.185	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	164464	10.197	ppbv	96
13) Ethanol	1.716	45	7225	8.071	ppbv	92
14) Bromoethene	1.777	108	58442	10.009	ppbv	99
15) Acetone	1.829	43	156147	8.435	ppbv	99
16) 1,3-Butadiene	1.606	39	77632	9.250	ppbv	97
17) tert-Butyl alcohol	2.036	59	176056	8.020	ppbv	99
18) 1,1-Dichloroethene	2.026	96	68830	9.707	ppbv	97
19) Isopropyl Alcohol	1.881	45	97198	8.791	ppbv	93
20) Methylene Chloride	2.056	84	62334	8.038	ppbv	93
21) Allyl Chloride	2.091	41	125191	9.573	ppbv	94
22) trans-1,2-Dichloroethene	2.334	96	82077	10.005	ppbv	98
23) Vinyl Acetate	2.454	43	270676	10.634	ppbv #	99
24) 1,1-Dichloroethane	2.402	63	164910	10.066	ppbv	99
25) Ethyl Acetate	2.826	43	458640	10.237	ppbv	99
26) Hexane	2.816	57	207705	10.043	ppbv	95
27) Carbon Disulfide	2.143	76	206751	10.273	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	95768	9.082	ppbv	93
29) Chloroform	2.839	83	311859	10.562	ppbv	97
30) Cyclohexane	3.845	84	169353	9.340	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	202349	9.796	ppbv	97
32) 1,1,1-Trichloroethane	3.357	97	293618	9.409	ppbv	96
34) 2-Butanone	2.551	43	298071	12.066	ppbv	98
35) Carbon Tetrachloride	3.748	117	297085	11.779	ppbv	98
36) Benzene	3.645	78	407263	11.625	ppbv	99
37) 1,2-Dichloroethane	3.208	62	232809	12.720	ppbv	99
38) Trichloroethene	4.532	130	166529	10.408	ppbv	96
39) 1,2-Dichloropropane	4.302	63	153042	11.961	ppbv	96
40) 1,4-Dioxane	4.567	88	61682	10.138	ppbv #	88
41) Tetrahydrofuran	3.046	42	164268	11.927	ppbv	97
42) Bromodichloromethane	4.473	83	336858	12.351	ppbv	98
43) Methyl Methacrylate	4.862	69	158457	10.979	ppbv	98
44) 2,2,4-Trimethylpentane	4.625	57	701486	11.797	ppbv	98
45) t-1,3-Dichloropropene	6.399	75	169435	10.403	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042902.D
 Acq On : 08 Sep 2025 13:35
 Operator : SY/MD
 Sample : VL0908ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:55:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	223871	11.031	ppbv	96
47) 1,1,2-Trichloroethane	6.564	97	156460	11.541	ppbv	95
48) Dibromochloromethane	7.373	129	256923	11.712	ppbv	99
49) Bromoform	9.474	173	203018	11.222	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	390291	11.688	ppbv	97
51) 2-Hexanone	7.422	43	311589	11.858	ppbv #	95
52) Tetrachloroethene	8.212	164	122229	9.644	ppbv	93
53) Toluene	6.920	91	447844	10.752	ppbv	99
54) 1,2-Dibromoethane	7.639	107	223417	11.277	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.917	131	190922	12.050	ppbv	98
57) Chlorobenzene	8.911	112	345342	11.855	ppbv	99
58) Ethyl Benzene	9.344	91	618650	11.442	ppbv	99
59) m/p-Xylene	9.542	91	1015739m	23.968	ppbv	
60) o-Xylene	9.956	91	504922	11.844	ppbv	99
61) Styrene	9.862	104	212594	10.644	ppbv	100
62) Isopropylbenzene	10.532	105	717761	11.521	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.953	83	295111	12.588	ppbv	99
64) n-propylbenzene	10.982	120	186258	11.717	ppbv	94
65) tert-Butylbenzene	11.523	119	633844	11.541	ppbv	97
66) Benzyl Chloride	11.607	91	55458	7.954	ppbv	99
67) sec-Butylbenzene	11.759	105	904977	11.739	ppbv	99
69) p-Isopropyltoluene	11.918	119	743217	11.229	ppbv	98
70) n-Butylbenzene	12.274	91	793205	12.084	ppbv	97
71) 2-Chlorotoluene	10.892	91	551398	11.398	ppbv	97
72) 4-Ethyltoluene	11.118	105	613510	11.871	ppbv	99
73) 1,3,5-Trimethylbenzene	11.196	105	505222	11.496	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	562868	11.668	ppbv	99
75) 1,3-Dichlorobenzene	11.600	146	322979	11.778	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	320689	11.563	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	309433	11.524	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	187990	8.542	ppbv	97
79) Naphthalene	13.507	128	477313	10.914	ppbv	99
80) Naphthalene,2-methyl-	14.449	142	142381	8.713	ppbv	97
81) 1,2,4-Trichlorobenzene	13.432	180	228630	10.401	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042907.D
 Acq On : 08 Sep 2025 17:09
 Operator : SY/MD
 Sample : QC090425 CAN 10158
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC090425 CAN 10158

Quant Time: Sep 09 00:58:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	136294	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	340722	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	282979	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	208804	9.839	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%

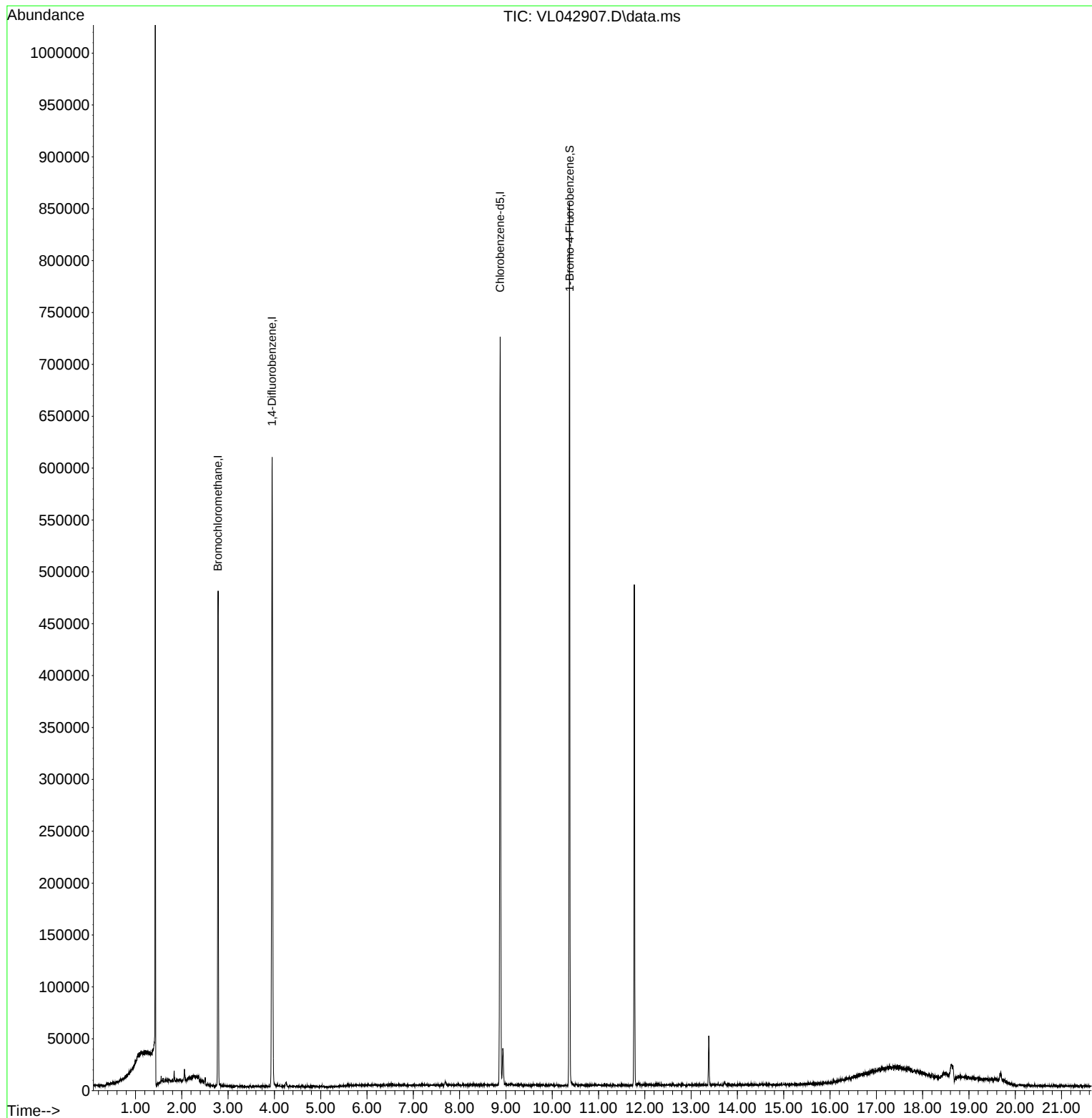
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042907.D
Acq On : 08 Sep 2025 17:09
Operator : SY/MD
Sample : QC090425 CAN 10158
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC090425 CAN 10158

Quant Time: Sep 09 00:58:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration



Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Maresh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042841.D	13 Aug 2025 07:45	SY/MD	Ok
2	VSTDICCC010	VL042842.D	13 Aug 2025 08:30	SY/MD	Ok,M
3	VSTDICCC002	VL042843.D	13 Aug 2025 09:06	SY/MD	Ok,M
4	VSTDICCC001	VL042844.D	13 Aug 2025 09:41	SY/MD	Ok,M
5	VSTDICCC0.5	VL042845.D	13 Aug 2025 10:17	SY/MD	Ok,M
6	VSTDICCC0.1	VL042846.D	13 Aug 2025 10:53	SY/MD	Ok,M
7	VSTDICCC0.03	VL042847.D	13 Aug 2025 11:30	SY/MD	Ok,M
8	VSTDICCC015	VL042848.D	13 Aug 2025 12:06	SY/MD	Ok,M
9	VSTDICV010	VL042849.D	13 Aug 2025 12:56	SY/MD	Ok,M
10	VL0813ABL01	VL042850.D	13 Aug 2025 13:46	SY/MD	Ok
11	VL0813ABS01	VL042851.D	13 Aug 2025 14:32	SY/MD	Ok,M
12	Q2727-01DL2	VL042852.D	13 Aug 2025 15:10	SY/MD	Ok
13	Q2126-14 0.1 PPB LOQ	VL042853.D	13 Aug 2025 15:49	SY/MD	Ok,M
14	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27	SY/MD	Ok
15	Q2794-01	VL042855.D	13 Aug 2025 17:05	SY/MD	Dilution
16	Q2794-01DUP	VL042856.D	13 Aug 2025 17:43	SY/MD	Ok,M
17	Q2794-01DL	VL042857.D	13 Aug 2025 18:21	SY/MD	Ok,M
18	Q2794-02	VL042858.D	13 Aug 2025 18:58	SY/MD	Ok,M
19	Q2794-02DL	VL042859.D	13 Aug 2025 19:35	SY/MD	Not Ok
20	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12	SY/MD	Ok
21	Q2834-01	VL042861.D	13 Aug 2025 20:49	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2834-02	VL042862.D	13 Aug 2025 21:26	SY/MD	Ok,M
23	Q2834-02DL	VL042863.D	13 Aug 2025 22:02	SY/MD	Not Ok
24	VSTDCCC010	VL042864.D	13 Aug 2025 22:39	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL090825

Review By	Mahesh Dadoda	Review On	9/11/2025 5:29:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/18/2025 6:48:50 AM		
SubDirectory	VL090825	HP Acquire Method	TO15AIR	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042899.D	08 Sep 2025 08:41	SY/MD	Ok
2	VSTDCCC010	VL042900.D	08 Sep 2025 11:05	SY/MD	Ok,M
3	VL0908ABL01	VL042901.D	08 Sep 2025 11:55	SY/MD	Ok
4	VL0908ABS01	VL042902.D	08 Sep 2025 13:35	SY/MD	Ok,M
5	Q3038-01	VL042903.D	08 Sep 2025 14:19	SY/MD	Not Ok
6	Q3037-01	VL042904.D	08 Sep 2025 15:15	SY/MD	Ok,M
7	Q3037-01DUP	VL042905.D	08 Sep 2025 15:59	SY/MD	Ok,M
8	Q3038-01	VL042906.D	08 Sep 2025 16:33	SY/MD	Ok,M
9	QC090425 CAN 10158	VL042907.D	08 Sep 2025 17:09	SY/MD	Ok
10	Q3052-03	VL042908.D	08 Sep 2025 17:45	SY/MD	Dilution
11	Q3052-04	VL042909.D	08 Sep 2025 18:21	SY/MD	Ok,M
12	Q3052-01	VL042910.D	08 Sep 2025 18:56	SY/MD	Dilution
13	Q3052-02	VL042911.D	08 Sep 2025 19:31	SY/MD	Not Ok
14	VIBLK	VL042912.D	08 Sep 2025 20:33	SY/MD	Ok
15	Q3052-03DL	VL042913.D	08 Sep 2025 21:08	SY/MD	Ok,M
16	Q3052-04DUP	VL042914.D	08 Sep 2025 21:45	SY/MD	Ok,M
17	Q3052-02DL	VL042915.D	08 Sep 2025 22:20	SY/MD	Not Ok
18	Q3052-02	VL042916.D	08 Sep 2025 22:55	SY/MD	Not Ok
19	Q3052-02	VL042917.D	09 Sep 2025 07:48	SY/MD	Not Ok
20	Q3052-01DL	VL042918.D	09 Sep 2025 08:22	SY/MD	Ok,M
21	Q3052-02	VL042919.D	09 Sep 2025 08:57	SY/MD	Not Ok

M : Manual Integration