

Process Report

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

Order ID : Q1908

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
04/29/2025	B2504043	Q1908-03 Q1908-01 10-2	-6.3	10598	6 L	10701		C2504008	VL042399.D Seq :VL042125 TUNE : VL042394.D ICAL : VL042354.D CCAL : VL042395.D MB : VL042396.D
04/29/2025	B2504043	Q1908-02	-5.5	10595	6 L	10533		C2504007	VL042330.D Seq :VL041525 TUNE : VL042325.D ICAL : VL042177.D CCAL : VL042326.D MB : VL042327.D
04/29/2025	B2504043	Q1908-01 Q1908-03 21	-5.1	10297	6 L	10615		C2504008	VL042399.D Seq :VL042125 TUNE : VL042394.D ICAL : VL042354.D CCAL : VL042395.D MB : VL042396.D



Canister Cleaning

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

Canister Batch : C2504007

Type of Canister : 6 L

Cleaning Date : 04/14/2025

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
10599	-30	04/15/2025	04/15/2025	-30	04/16/2025		10401	VL042330.D
10595	-30	04/15/2025	04/15/2025	-30	04/16/2025	Q1908-02	10401	VL042330.D
10268	-30	04/15/2025	04/15/2025	-30	04/16/2025	Q1880-02	10401	VL042330.D
10323	-30	04/15/2025	04/15/2025	-30	04/16/2025	Q1880-03	10401	VL042330.D
10258	-30	04/15/2025	04/15/2025	-30	04/16/2025	Q1880-01	10401	VL042330.D
10198	-30	04/15/2025	04/15/2025	-30	04/16/2025		10401	VL042330.D
10053	-30	04/15/2025	04/15/2025	-30	04/16/2025		10401	VL042330.D
10401	-30	04/15/2025	04/15/2025	-30	04/16/2025	Q1880-05	10401	VL042330.D



Canister Cleaning

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

Canister Batch : C2504008

Type of Canister : 6 L

Cleaning Date : 04/16/2025

Analyst : SAM

Oven Temperature : 125.0 c

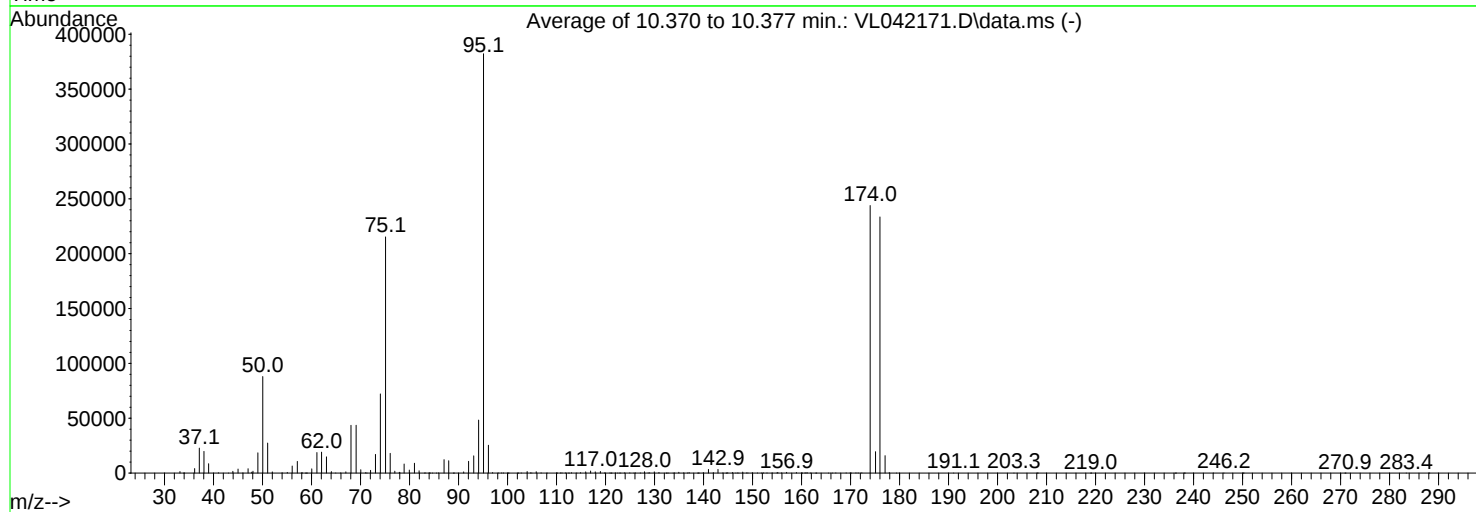
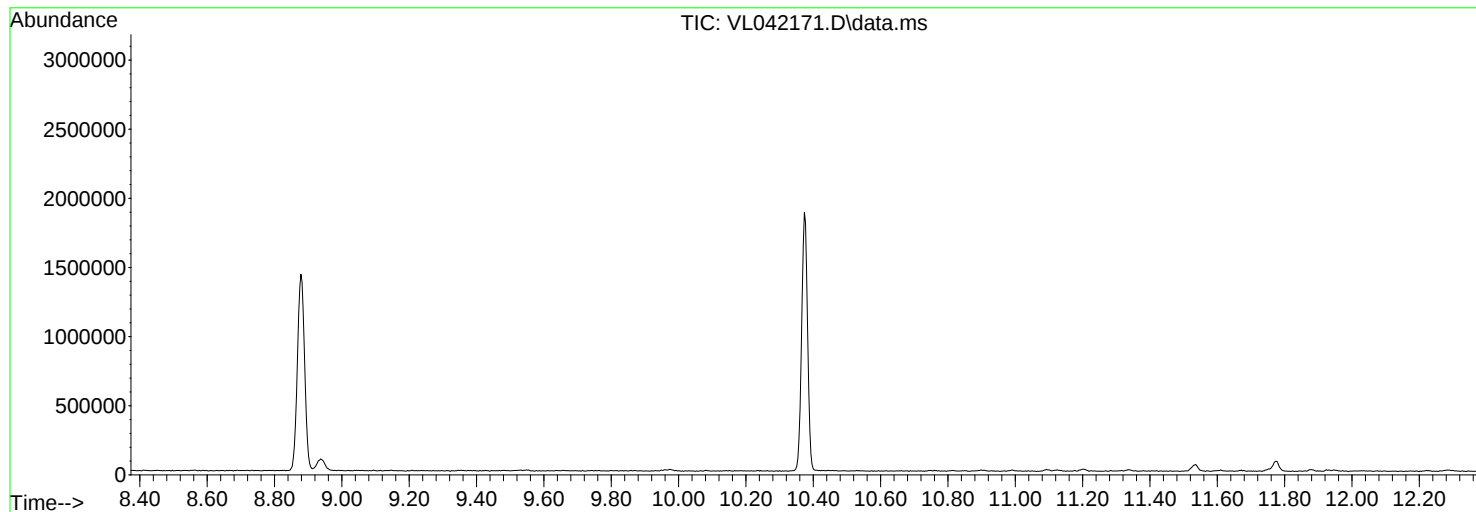
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10329	-30	04/17/2025	04/21/2025	-30	04/18/2025		10329	VL042399.D
10334	-30	04/17/2025	04/21/2025	-30	04/18/2025		10329	VL042399.D
10285	-30	04/17/2025	04/21/2025	-30	04/18/2025		10329	VL042399.D
10297	-30	04/17/2025	04/21/2025	-30	04/18/2025	Q1908-03	10329	VL042399.D
10154	-30	04/17/2025	04/21/2025	-30	04/18/2025		10329	VL042399.D
10439	-30	04/17/2025	04/21/2025	-30	04/18/2025		10329	VL042399.D
10598	-30	04/17/2025	04/21/2025	-30	04/18/2025	Q1908-01	10329	VL042399.D
10609	-30	04/17/2025	04/21/2025	-30	04/18/2025		10329	VL042399.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042171.D
Acq On : 27 Mar 2025 07:44
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\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	87995	PASS
75	95	30	66	56.3	215296	PASS
95	95	100	100	100.0	382268	PASS
96	95	5	9	6.6	25383	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.8	243904	PASS
175	174	4	9	8.0	19539	PASS
176	174	93	101	95.7	233493	PASS
177	176	5	9	6.8	15877	PASS

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

Method File : VL032725AIR.M

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

Last Update : Fri Mar 28 02:00:52 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042177.D 0.1 =VL042176.D 0.5 =VL042175.D 1 =VL042174.D 2 =VL042173.D 10 =VL042172.D 15 =VL042178.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.602	1.514	1.482	1.404	1.380	1.476	6.03
3) Chlorodifluoro...			1.622	1.541	1.514	1.457	1.408	1.508	5.41
4) Chloromethane			0.660	0.597	0.618	0.573	0.570	0.603	6.17
5) T Vinyl Chloride	0.882	0.705	0.635	0.576	0.584	0.549	0.546	0.639	18.84
6) T Bromomethane			0.327	0.268	0.266	0.256	0.250	0.273	11.20
7) Chloroethane			0.286	0.248	0.223	0.227	0.226	0.242	10.92
8) T Dichlorotetra...			1.306	1.283	1.274	1.214	1.211	1.257	3.40
9) T Propene			0.734	0.736	0.698	0.660	0.630	0.691	6.69
10) T Heptane			1.847	1.940	1.897	1.792	1.719	1.839	4.73
11) T Trichlorofluor...			1.562	1.457	1.480	1.339	1.346	1.437	6.59
12) T 1,1,2-Trichlor...			1.247	1.215	1.188	1.120	1.135	1.181	4.52
13) Ethanol			0.110	0.086	0.073	0.029	0.028	0.065	55.48
14) T Bromoethene			0.529	0.447	0.460	0.417	0.409	0.452	10.47
15) T Acetone			1.699	1.573	1.469	1.113	1.139	1.399	18.73
16) T 1,3-Butadiene			0.952	0.705	0.608	0.573	0.577	0.683	23.38
17) tert-Butyl alc...			1.935	1.799	1.756	1.618	1.601	1.742	7.91
18) T 1,1-Dichloroet...			0.624	0.565	0.560	0.504	0.507	0.552	8.99
19) T Isopropyl Alcohol			1.016	0.800	0.738	0.702	0.689	0.789	16.99
20) T Methylene Chlo...			0.624	0.563	0.545	0.438	0.435	0.521	15.85
21) T Allyl Chloride			1.067	1.022	1.020	0.902	0.921	0.986	7.25
22) T trans-1,2-Dich...			0.704	0.701	0.621	0.590	0.575	0.638	9.56
23) T Vinyl Acetate			0.754	0.692	0.550	0.498	0.532	0.605	18.40
24) T 1,1-Dichloroet...			1.247	1.208	1.187	1.122	1.149	1.183	4.17
25) T Ethyl Acetate			4.017	3.619	3.703	3.457	3.353	3.630	7.06
26) T Hexane			1.507	1.462	1.383	1.333	1.325	1.402	5.71
27) T Carbon Disulfide			1.608	1.512	1.538	1.436	1.423	1.503	5.07
28) T Methyl tert-Bu...			0.921	0.886	0.894	0.831	0.832	0.873	4.56
29) T Chloroform			2.233	2.068	2.071	1.932	1.956	2.052	5.81
30) T Cyclohexane			1.337	1.238	1.211	1.162	1.140	1.217	6.33
31) T cis-1,2-Dichlo...			1.507	1.460	1.426	1.371	1.353	1.423	4.44
32) T 1,1,1-Trichlor...	3.151	2.495	2.279	2.201	2.152	2.062	2.105	2.349	16.23

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.754	0.771	0.770	0.667	0.664	0.725	7.58
35) T Carbon Tetrach...	1.069	0.782	0.709	0.732	0.748	0.703	0.725	0.781	16.60
36) T Benzene			1.049	1.027	1.013	0.934	0.934	0.991	5.47
37) T 1,2-Dichloroet...			0.613	0.569	0.563	0.537	0.556	0.568	4.95
38) T Trichloroethene	0.463	0.437	0.438	0.408	0.398	0.374	0.378	0.414	8.00
39) T 1,2-Dichloropr...			0.386	0.373	0.365	0.337	0.344	0.361	5.68

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL032725AIR.M										
40) T	1,4-Dioxane			0.234	0.197	0.191	0.169	0.167	0.192	14.08
41) T	Tetrahydrofuran			0.439	0.425	0.432	0.398	0.393	0.418	4.98
42) T	Bromodichlorom...			0.778	0.779	0.802	0.769	0.785	0.782	1.58
43) T	Methyl Methacr...			0.442	0.451	0.408	0.403	0.394	0.420	6.03
44) T	2,2,4-Trimethy...			1.781	1.689	1.723	1.608	1.576	1.675	5.00
45) T	t-1,3-Dichloro...			0.474	0.447	0.453	0.439	0.440	0.450	3.15
46) T	cis-1,3-Dichlo...			0.549	0.560	0.566	0.550	0.535	0.552	2.12
47) T	1,1,2-Trichlor...			0.419	0.382	0.379	0.364	0.365	0.382	5.88
48) T	Dibromochlorom...			0.651	0.641	0.663	0.636	0.644	0.647	1.62
49) T	Bromoform			0.566	0.588	0.597	0.582	0.570	0.581	2.18
50) T	4-Methyl-2-Pen...			1.286	1.214	1.211	1.027	1.008	1.149	10.79
51) T	2-Hexanone			0.999	1.018	1.031	0.844	0.827	0.944	10.56
52) T	Tetrachloroethene	0.572	0.359	0.401	0.361	0.371	0.343	0.345	0.393	20.64
53) T	Toluene			1.239	1.203	1.202	1.125	1.108	1.175	4.76
54) T	1,2-Dibromoethane	0.574		0.543	0.538	0.520	0.508	0.510	0.532	4.74
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.576	0.575	0.576	0.510	0.515	0.550	6.30
57) T	Chlorobenzene			1.024	0.979	0.994	0.875	0.871	0.949	7.46
58) T	Ethyl Benzene			1.850	1.822	1.894	1.671	1.645	1.776	6.28
59) T	m/p-Xylene			1.505	1.472	1.484	1.321	1.309	1.418	6.71
60) T	o-Xylene			1.521	1.475	1.499	1.328	1.287	1.422	7.50
61) T	Styrene			0.709	0.722	0.735	0.683	0.668	0.703	3.92
62) T	Isopropylbenzene			2.290	2.199	2.261	1.962	1.920	2.126	8.14
63) T	1,1,2,2-Tetrac...	0.986	0.800	0.907	0.889	0.893	0.796	0.777	0.864	8.78
64) T	n-propylbenzene			0.578	0.581	0.576	0.499	0.502	0.547	7.81
65) T	tert-Butylbenzene			2.190	2.071	2.144	1.736	1.691	1.966	11.96
66) T	Benzyl Chloride			0.217	0.213	0.221	0.203	0.189	0.209	6.06
67) T	sec-Butylbenzene			3.005	2.994	2.947	2.404	2.316	2.733	12.54
68) S	1-Bromo-4-Fluo...	0.820	0.827	0.832	0.810	0.828	0.813	0.820	0.821	0.98
69) T	p-Isopropyltol...			2.554	2.551	2.560	2.078	2.025	2.354	11.74
70) T	n-Butylbenzene			2.536	2.598	2.682	2.137	2.082	2.407	11.51
71) T	2-Chlorotoluene			1.717	1.728	1.759	1.538	1.510	1.650	7.07
72) T	4-Ethyltoluene			1.834	1.859	1.929	1.629	1.601	1.770	8.26
73) T	1,3,5-Trimethy...			1.616	1.671	1.677	1.387	1.381	1.546	9.71
74) T	1,2,4-Trimethy...			1.994	1.958	1.966	1.510	1.478	1.781	14.74
75) T	1,3-Dichlorobe...			1.036	1.022	1.063	0.882	0.882	0.977	8.99
76) T	1,4-Dichlorobe...			1.030	1.017	1.040	0.888	0.886	0.972	8.05
77) T	1,2-Dichlorobe...			1.012	1.031	1.014	0.850	0.850	0.951	9.78
78) T	Hexachloro-1,3...			1.057	1.113	1.086	0.802	0.784	0.968	16.65
79) T	Naphthalene	1.637		1.979	2.181	2.314	1.806	1.773	1.948	13.31
80) T	Naphthalene,2-...			0.721	0.891	1.163	0.990	1.013	0.955	17.09
81) T	1,2,4-Trichlor...			0.821	0.941	1.028	0.859	0.843	0.899	9.51

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	187002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	545068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	519536	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	422410	9.901	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.496	85	262496	9.507	ppbv	100
3) Chlorodifluoromethane	1.473	51	272522	9.662	ppbv	100
4) Chloromethane	1.531	50	107099	9.491	ppbv	100
5) Vinyl Chloride	1.577	62	102699	8.925	ppbv	100
6) Bromomethane	1.664	94	47950	9.377	ppbv	100
7) Chloroethane	1.703	64	42516	9.387	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	227041	9.656	ppbv	100
9) Propene	1.483	41	123386	9.709	ppbv	100
10) Heptane	4.972	43	335086	9.744	ppbv	100
11) Trichlorofluoromethane	1.874	101	250349	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	209365	9.481	ppbv	100
13) Ethanol	1.719	45	5338	5.364	ppbv	100
14) Bromoethene	1.777	108	77999	9.220	ppbv	100
15) Acetone	1.832	43	208061	7.955	ppbv	100
16) 1,3-Butadiene	1.606	39	107104	9.105	ppbv	100
17) tert-Butyl alcohol	2.036	59	302616	9.290	ppbv	100
18) 1,1-Dichloroethene	2.030	96	94236	9.128	ppbv	100
19) Isopropyl Alcohol	1.884	45	131359	8.902	ppbv	100
20) Methylene Chloride	2.059	84	81828	8.401	ppbv	100
21) Allyl Chloride	2.091	41	168602	9.141	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	110371	9.149	ppbv	100
23) Vinyl Acetate	2.460	43	93080	8.563	ppbv	100
24) 1,1-Dichloroethane	2.405	63	209753	9.484	ppbv	100
25) Ethyl Acetate	2.833	43	646501	9.524	ppbv	100
26) Hexane	2.823	57	249331	9.510	ppbv	100
27) Carbon Disulfide	2.146	76	268507	9.550	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	155398	9.520	ppbv	100
29) Chloroform	2.845	83	361264	9.415	ppbv	100
30) Cyclohexane	3.852	84	217215	9.537	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	256425	9.634	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	385628	8.784	ppbv	100
34) 2-Butanone	2.554	43	363735	9.203	ppbv	100
35) Carbon Tetrachloride	3.758	117	382925	9.129	ppbv	100
36) Benzene	3.651	78	508860	9.417	ppbv	100
37) 1,2-Dichloroethane	3.214	62	292937	9.469	ppbv	100
38) Trichloroethene	4.545	130	204027	9.045	ppbv	100
39) 1,2-Dichloropropane	4.312	63	183439	9.321	ppbv	100
40) 1,4-Dioxane	4.577	88	92327	9.042	ppbv #	100
41) Tetrahydrofuran	3.049	42	216851	9.643	ppbv	100
42) Bromodichloromethane	4.483	83	418887	9.822	ppbv	100
43) Methyl Methacrylate	4.872	69	219399	9.618	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	876649	9.600	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	239180	9.746	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
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 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:31:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv	100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv	100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv	100
49) Bromoform	9.477	173	317189	10.021	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	559800	8.934	ppbv	100
51) 2-Hexanone	7.432	43	460013	8.848	ppbv #	100
52) Tetrachloroethene	8.218	164	186912	8.722	ppbv	100
53) Toluene	6.927	91	613378	9.576	ppbv	100
54) 1,2-Dibromoethane	7.649	107	276797	9.536	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.917	131	265037	9.268	ppbv	100
57) Chlorobenzene	8.917	112	454511	9.223	ppbv	100
58) Ethyl Benzene	9.351	91	868003	9.406	ppbv	100
59) m/p-Xylene	9.549	91	1372806m	18.607	ppbv	
60) o-Xylene	9.960	91	689933	9.340	ppbv	100
61) Styrene	9.866	104	354697	9.706	ppbv	100
62) Isopropylbenzene	10.536	105	1019255	9.227	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.960	83	413392	9.210	ppbv	100
64) n-propylbenzene	10.986	120	259405	9.122	ppbv	100
65) tert-Butylbenzene	11.529	119	901951	8.828	ppbv	100
66) Benzyl Chloride	11.610	91	105411	9.724	ppbv	100
67) sec-Butylbenzene	11.766	105	1249106	8.796	ppbv	100
69) p-Isopropyltoluene	11.924	119	1079675	8.830	ppbv	100
70) n-Butylbenzene	12.277	91	1110351	8.879	ppbv	100
71) 2-Chlorotoluene	10.898	91	799102	9.320	ppbv	100
72) 4-Ethyltoluene	11.122	105	846232	9.200	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	720566	8.970	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	784745	8.480	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	458226	9.028	ppbv	100
76) 1,4-Dichlorobenzene	11.669	146	461371	9.134	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	441473	8.933	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	416735	8.284	ppbv	100
79) Naphthalene	13.510	128	938470	9.271	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	514394	10.436	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	446420	9.561	ppbv	100

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

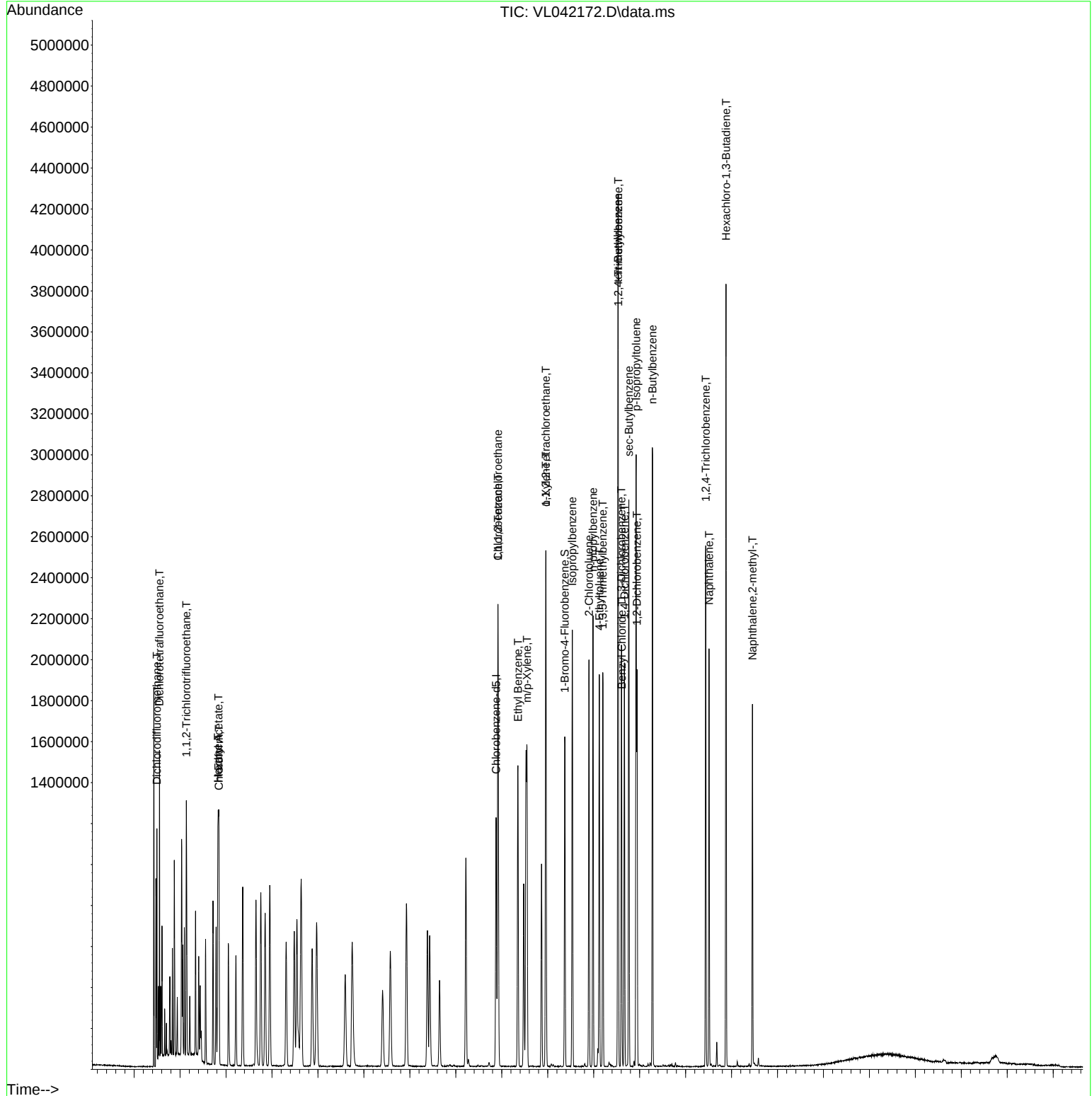
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	188395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	546394	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	504538	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 417532 10.077 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	55859	2.008	ppbv	99
3) Chlorodifluoromethane	1.473	51	57045	2.007	ppbv	99
4) Chloromethane	1.531	50	23293	2.049	ppbv	94
5) Vinyl Chloride	1.576	62	21989	1.897	ppbv	99
6) Bromomethane	1.664	94	10027	1.946	ppbv	98
7) Chloroethane	1.703	64	8413	1.844	ppbv	92
8) Dichlorotetrafluoroethane	1.551	85	48008	2.027	ppbv	98
9) Propene	1.483	41	26295	2.054	ppbv	94
10) Heptane	4.972	43	71466	2.063	ppbv	99
11) Trichlorofluoromethane	1.874	101	55754	2.060	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	44761	2.012	ppbv	98
13) Ethanol	1.719	45	2748m	2.741	ppbv	
14) Bromoethene	1.780	108	17323	2.033	ppbv #	89
15) Acetone	1.832	43	55365	2.101	ppbv	95
16) 1,3-Butadiene	1.606	39	22894	1.932	ppbv	95
17) tert-Butyl alcohol	2.039	59	66174	2.016	ppbv	100
18) 1,1-Dichloroethene	2.030	96	21103	2.029	ppbv	95
19) Isopropyl Alcohol	1.884	45	27804	1.870	ppbv #	35
20) Methylene Chloride	2.059	84	20518	2.091	ppbv	96
21) Allyl Chloride	2.094	41	38425	2.068	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	23384	1.924	ppbv	92
23) Vinyl Acetate	2.460	43	20736	1.894	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	44740	2.008	ppbv	99
25) Ethyl Acetate	2.832	43	139516	2.040	ppbv	99
26) Hexane	2.823	57	52095	1.972	ppbv	92
27) Carbon Disulfide	2.146	76	57969	2.047	ppbv #	76
28) Methyl tert-Butyl Ether	2.437	73	33703	2.049	ppbv	99
29) Chloroform	2.845	83	78043	2.019	ppbv	95
30) Cyclohexane	3.852	84	45641	1.989	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	53713	2.003	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	81070	1.833	ppbv	99
34) 2-Butanone	2.554	43	84157	2.124	ppbv	99
35) Carbon Tetrachloride	3.758	117	81735	1.944	ppbv	96
36) Benzene	3.651	78	110727	2.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	61476	1.982	ppbv	97
38) Trichloroethene	4.541	130	43501	1.924	ppbv	97
39) 1,2-Dichloropropane	4.308	63	39912	2.023	ppbv	93
40) 1,4-Dioxane	4.587	88	20884m	2.040	ppbv	
41) Tetrahydrofuran	3.056	42	47262	2.097	ppbv	99
42) Bromodichloromethane	4.483	83	87640	2.050	ppbv	99
43) Methyl Methacrylate	4.878	69	44624	1.952	ppbv	97
44) 2,2,4-Trimethylpentane	4.632	57	188282	2.057	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	49461	2.011	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv	#	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv		95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv		100
49) Bromoform	9.477	173	65221	2.056	ppbv		98
50) 4-Methyl-2-Pentanone	5.752	43	132328	2.107	ppbv		99
51) 2-Hexanone	7.435	43	112681	2.162	ppbv	#	99
52) Tetrachloroethene	8.221	164	40558	1.888	ppbv		98
53) Toluene	6.923	91	131314	2.045	ppbv		99
54) 1,2-Dibromoethane	7.648	107	56799	1.952	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.920	131	58141	2.093	ppbv		97
57) Chlorobenzene	8.914	112	100308	2.096	ppbv	#	94
58) Ethyl Benzene	9.351	91	191114	2.132	ppbv		96
59) m/p-Xylene	9.548	91	299531m	4.181	ppbv		
60) o-Xylene	9.959	91	151292	2.109	ppbv		98
61) Styrene	9.865	104	74134	2.089	ppbv		98
62) Isopropylbenzene	10.535	105	228191	2.127	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	90114	2.067	ppbv		99
64) n-propylbenzene	10.985	120	58105	2.104	ppbv		92
65) tert-Butylbenzene	11.529	119	216336	2.180	ppbv		99
66) Benzyl Chloride	11.610	91	22272	2.116	ppbv		95
67) sec-Butylbenzene	11.762	105	297381	2.156	ppbv		99
69) p-Isopropyltoluene	11.921	119	258357	2.176	ppbv		100
70) n-Butylbenzene	12.277	91	270616	2.228	ppbv		99
71) 2-Chlorotoluene	10.898	91	177487	2.132	ppbv		100
72) 4-Ethyltoluene	11.121	105	194660	2.179	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	169221	2.169	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	198351	2.207	ppbv		96
75) 1,3-Dichlorobenzene	11.604	146	107217	2.175	ppbv		97
76) 1,4-Dichlorobenzene	11.668	146	104925	2.139	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	102310	2.132	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	109539	2.242	ppbv		99
79) Naphthalene	13.510	128	233451	2.375	ppbv		97
80) Naphthalene,2-methyl-	14.455	142	117313	2.451	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	103765	2.288	ppbv		97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	186244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	537244	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	499830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	404753	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	28203	1.026	ppbv	99
3) Chlorodifluoromethane	1.473	51	28693	1.021	ppbv	94
4) Chloromethane	1.531	50	11111	0.989	ppbv	99
5) Vinyl Chloride	1.577	62	10723	0.936	ppbv	98
6) Bromomethane	1.667	94	4984	0.979	ppbv	97
7) Chloroethane	1.703	64	4622	1.025	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	23886	1.020	ppbv	98
9) Propene	1.483	41	13699m	1.082	ppbv	
10) Heptane	4.975	43	36132	1.055	ppbv	100
11) Trichlorofluoromethane	1.875	101	27136	1.014	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	22629	1.029	ppbv	99
13) Ethanol	1.719	45	1610m	1.624	ppbv	
14) Bromoethene	1.781	108	8330	0.989	ppbv #	82
15) Acetone	1.836	43	29294	1.125	ppbv	95
16) 1,3-Butadiene	1.606	39	13133	1.121	ppbv	97
17) tert-Butyl alcohol	2.040	59	33500	1.033	ppbv	97
18) 1,1-Dichloroethene	2.033	96	10532	1.024	ppbv	89
19) Isopropyl Alcohol	1.884	45	14903	1.014	ppbv #	38
20) Methylene Chloride	2.059	84	10481	1.080	ppbv	93
21) Allyl Chloride	2.095	41	19039	1.036	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	13051m	1.086	ppbv	
23) Vinyl Acetate	2.464	43	12883m	1.190	ppbv	
24) 1,1-Dichloroethane	2.409	63	22505	1.022	ppbv	99
25) Ethyl Acetate	2.836	43	67402	0.997	ppbv #	96
26) Hexane	2.823	57	27223	1.043	ppbv	98
27) Carbon Disulfide	2.146	76	28167	1.006	ppbv #	47
28) Methyl tert-Butyl Ether	2.441	73	16501	1.015	ppbv	95
29) Chloroform	2.845	83	38516	1.008	ppbv	96
30) Cyclohexane	3.852	84	23052	1.016	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	27187	1.026	ppbv	89
32) 1,1,1-Trichloroethane	3.363	97	40993	0.938	ppbv	99
34) 2-Butanone	2.557	43	41423	1.063	ppbv	98
35) Carbon Tetrachloride	3.758	117	39345	0.952	ppbv	93
36) Benzene	3.651	78	55156	1.036	ppbv	94
37) 1,2-Dichloroethane	3.218	62	30543	1.002	ppbv	98
38) Trichloroethene	4.545	130	21906	0.985	ppbv	93
39) 1,2-Dichloropropane	4.312	63	20020	1.032	ppbv	99
40) 1,4-Dioxane	4.593	88	10592m	1.052	ppbv	
41) Tetrahydrofuran	3.056	42	22818	1.029	ppbv	97
42) Bromodichloromethane	4.483	83	41864	0.996	ppbv	90
43) Methyl Methacrylate	4.875	69	24233m	1.078	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	90727	1.008	ppbv	96
45) t-1,3-Dichloropropene	6.403	75	23993m	0.992	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	30063	1.014	ppbv	93
47) 1,1,2-Trichloroethane	6.577	97	20546	1.002	ppbv	96
48) Dibromochloromethane	7.383	129	34425	0.991	ppbv	100
49) Bromoform	9.481	173	31610	1.013	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	65226m	1.056	ppbv	
51) 2-Hexanone	7.438	43	54680	1.067	ppbv #	100
52) Tetrachloroethene	8.222	164	19415	0.919	ppbv	95
53) Toluene	6.927	91	64612	1.023	ppbv	99
54) 1,2-Dibromoethane	7.652	107	28879	1.009	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.924	131	28764	1.045	ppbv #	87
57) Chlorobenzene	8.917	112	48930	1.032	ppbv	93
58) Ethyl Benzene	9.348	91	91086	1.026	ppbv	97
59) m/p-Xylene	9.529	91	147162m	2.073	ppbv	
60) o-Xylene	9.960	91	73702	1.037	ppbv	96
61) Styrene	9.866	104	36110	1.027	ppbv	97
62) Isopropylbenzene	10.536	105	109897	1.034	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	44431	1.029	ppbv	99
64) n-propylbenzene	10.986	120	29054	1.062	ppbv	98
65) tert-Butylbenzene	11.526	119	103520	1.053	ppbv	96
66) Benzyl Chloride	11.614	91	10660	1.022	ppbv #	93
67) sec-Butylbenzene	11.762	105	149660	1.095	ppbv	97
69) p-Isopropyltoluene	11.921	119	127509	1.084	ppbv	99
70) n-Butylbenzene	12.280	91	129860	1.079	ppbv	99
71) 2-Chlorotoluene	10.898	91	86356	1.047	ppbv	100
72) 4-Ethyltoluene	11.122	105	92912	1.050	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	83497	1.080	ppbv	92
74) 1,2,4-Trimethylbenzene	11.533	105	97858	1.099	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	51096	1.046	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	50841	1.046	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	51523	1.084	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	55611	1.149	ppbv	97
79) Naphthalene	13.510	128	109031	1.120	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	44518	0.939	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	47040	1.047	ppbv	98

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

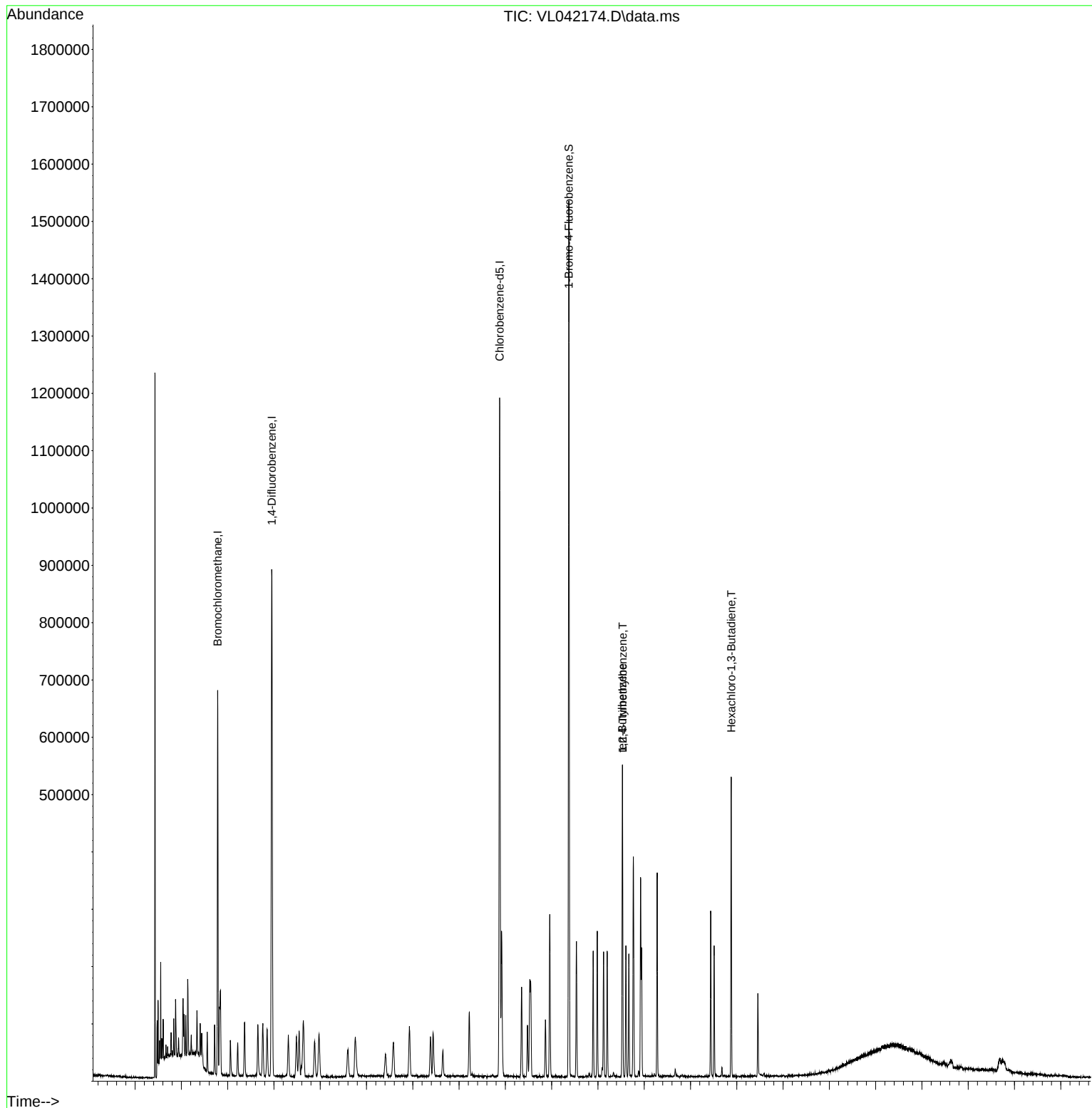
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	180502	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	523832	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	485078	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 403513 10.130 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	14455	0.542	ppbv	95
3) Chlorodifluoromethane	1.473	51	14637	0.538	ppbv #	89
4) Chloromethane	1.531	50	5956	0.547	ppbv	94
5) Vinyl Chloride	1.577	62	5732	0.516	ppbv	92
6) Bromomethane	1.664	94	2949	0.597	ppbv	95
7) Chloroethane	1.703	64	2582	0.591	ppbv #	87
8) Dichlorotetrafluoroethane	1.551	85	11783	0.519	ppbv	98
9) Propene	1.483	41	6622m	0.540	ppbv	
10) Heptane	4.972	43	16673	0.502	ppbv	89
11) Trichlorofluoromethane	1.874	101	14099	0.544	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	11252	0.528	ppbv	99
13) Ethanol	1.722	45	997	1.038	ppbv #	36
14) Bromoethene	1.780	108	4770	0.584	ppbv #	86
15) Acetone	1.835	43	15331	0.607	ppbv #	85
16) 1,3-Butadiene	1.606	39	8594	0.757	ppbv	82
17) tert-Butyl alcohol	2.039	59	17467	0.556	ppbv	97
18) 1,1-Dichloroethene	2.030	96	5634	0.565	ppbv #	92
19) Isopropyl Alcohol	1.884	45	9171	0.644	ppbv #	39
20) Methylene Chloride	2.059	84	5634	0.599	ppbv #	93
21) Allyl Chloride	2.091	41	9632	0.541	ppbv	89
22) trans-1,2-Dichloroethene	2.334	96	6353	0.546	ppbv	83
23) Vinyl Acetate	2.457	43	6809	0.649	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	11258	0.527	ppbv	97
25) Ethyl Acetate	2.836	43	36258	0.553	ppbv	98
26) Hexane	2.823	57	13605	0.538	ppbv	92
27) Carbon Disulfide	2.146	76	14510	0.535	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	8310	0.527	ppbv #	89
29) Chloroform	2.845	83	20149	0.544	ppbv	98
30) Cyclohexane	3.852	84	12063m	0.549	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	13601	0.529	ppbv	92
32) 1,1,1-Trichloroethane	3.360	97	20567	0.485	ppbv	100
34) 2-Butanone	2.557	43	19739	0.520	ppbv	96
35) Carbon Tetrachloride	3.755	117	18558	0.460	ppbv	93
36) Benzene	3.651	78	27488	0.529	ppbv #	87
37) 1,2-Dichloroethane	3.214	62	16062	0.540	ppbv	100
38) Trichloroethene	4.538	130	11460m	0.529	ppbv	
39) 1,2-Dichloropropane	4.308	63	10123	0.535	ppbv	92
40) 1,4-Dioxane	4.593	88	6121m	0.624	ppbv	
41) Tetrahydrofuran	3.059	42	11509m	0.533	ppbv	
42) Bromodichloromethane	4.483	83	20374	0.497	ppbv #	98
43) Methyl Methacrylate	4.875	69	11583m	0.528	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	46646	0.532	ppbv	95
45) t-1,3-Dichloropropene	6.406	75	12404	0.526	ppbv #	79

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	14374m	0.497	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	10972m	0.549	ppbv	
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv	99
49) Bromoform	9.480	173	14828	0.487	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	ppbv	97
51) 2-Hexanone	7.438	43	26154	0.523	ppbv #	100
52) Tetrachloroethene	8.218	164	10502	0.510	ppbv	94
53) Toluene	6.923	91	32444	0.527	ppbv	98
54) 1,2-Dibromoethane	7.648	107	14220	0.510	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	13959	0.523	ppbv #	1
57) Chlorobenzene	8.914	112	24826	0.540	ppbv #	91
58) Ethyl Benzene	9.348	91	44862	0.521	ppbv	96
59) m/p-Xylene	9.542	91	73028m	1.060	ppbv	
60) o-Xylene	9.959	91	36879	0.535	ppbv	98
61) Styrene	9.866	104	17198	0.504	ppbv	96
62) Isopropylbenzene	10.536	105	55531	0.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	21989	0.525	ppbv	96
64) n-propylbenzene	10.985	120	14030	0.528	ppbv	95
65) tert-Butylbenzene	11.526	119	53115	0.557	ppbv	100
66) Benzyl Chloride	11.613	91	5263	0.520	ppbv	97
67) sec-Butylbenzene	11.762	105	72879	0.550	ppbv	98
69) p-Isopropyltoluene	11.921	119	61933	0.542	ppbv	100
70) n-Butylbenzene	12.277	91	61507	0.527	ppbv	99
71) 2-Chlorotoluene	10.895	91	41637	0.520	ppbv	95
72) 4-Ethyltoluene	11.121	105	44473	0.518	ppbv #	94
73) 1,3,5-Trimethylbenzene	11.199	105	39190	0.523	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	48370	0.560	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	25122	0.530	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	24991	0.530	ppbv	97
77) 1,2-Dichlorobenzene	11.943	146	24548	0.532	ppbv	96
78) Hexachloro-1,3-Butadiene	13.879	225	25636	0.546	ppbv	99
79) Naphthalene	13.510	128	47990	0.508	ppbv	95
80) Naphthalene,2-methyl-	14.458	142	17486	0.380	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	19924	0.457	ppbv	97

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

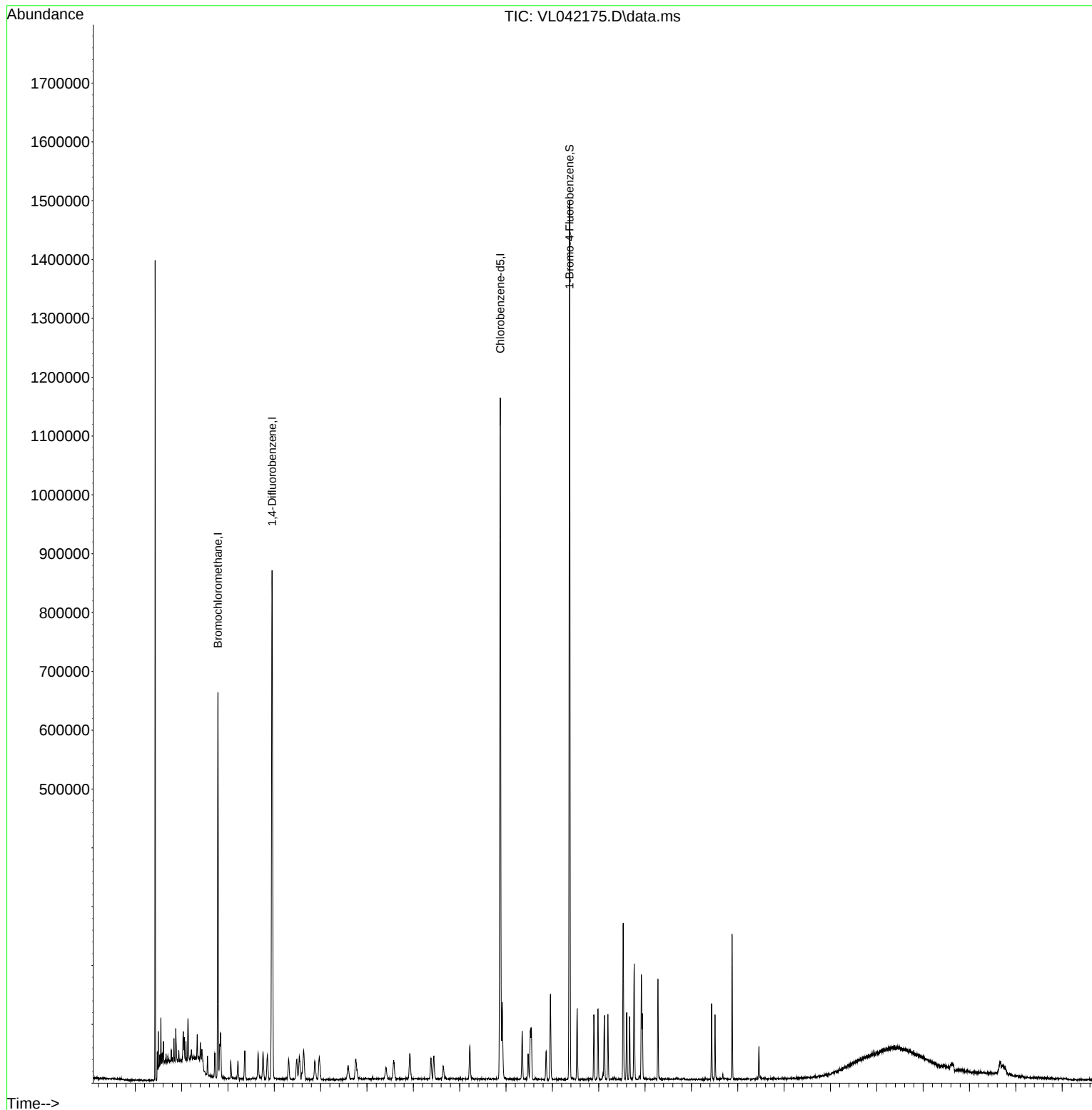
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042176.D
 Acq On : 27 Mar 2025 10:32
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	180740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	528028	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	481506	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	398069	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%
Target Compounds						
5) Vinyl Chloride	1.580	62	1274	0.115	ppbv #	42
32) 1,1,1-Trichloroethane	3.366	97	4509m	0.106	ppbv	
35) Carbon Tetrachloride	3.768	117	4131m	0.102	ppbv	
38) Trichloroethene	4.551	130	2306m	0.106	ppbv	
52) Tetrachloroethene	8.225	164	1895m	0.091	ppbv	
54) 1,2-Dibromoethane	7.652	107	3033m	0.108	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3852m	0.093	ppbv	
79) Naphthalene	13.513	128	7882	0.084	ppbv #	92

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

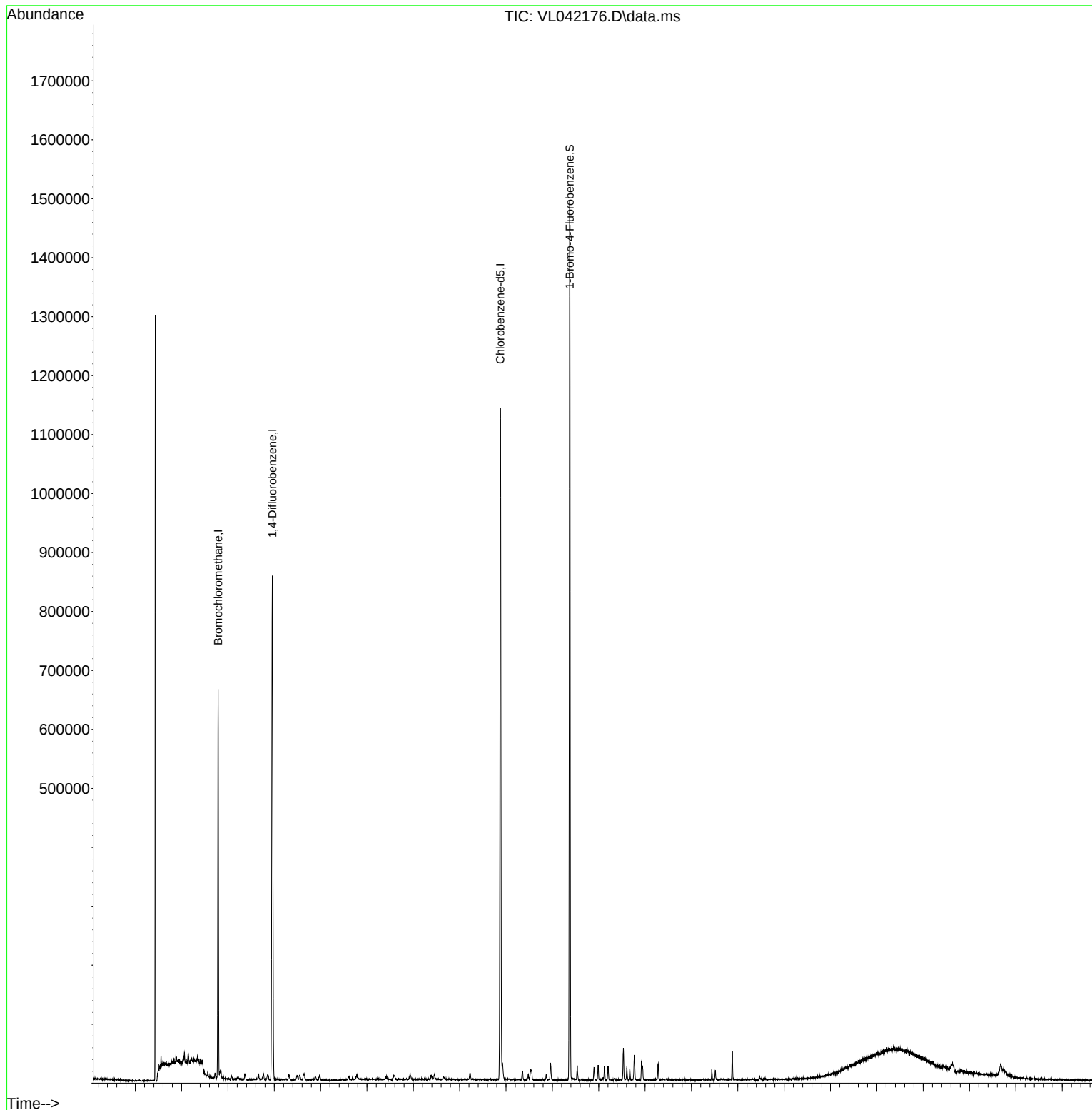
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042177.D
 Acq On : 27 Mar 2025 11:03
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	178058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	475617	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
5) Vinyl Chloride	1.580	62	471m	0.043	ppbv	Qvalue
32) 1,1,1-Trichloroethane	3.366	97	1683m	0.040	ppbv	
35) Carbon Tetrachloride	3.758	117	1645m	0.042	ppbv	
38) Trichloroethene	4.541	130	712m	0.034	ppbv	
52) Tetrachloroethene	8.208	164	880m	0.044	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	1407m	0.034	ppbv	

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

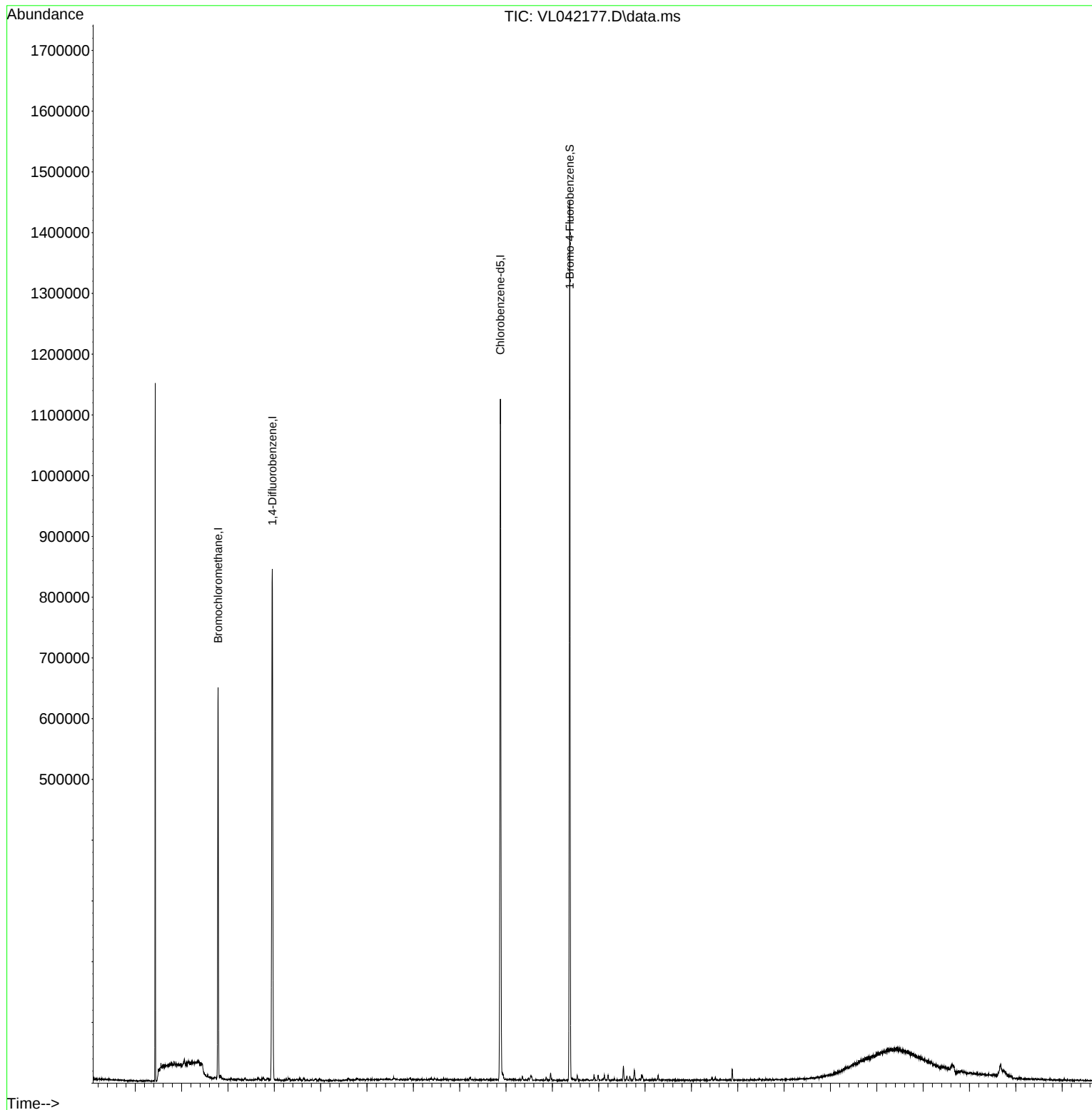
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Mar 28 01:37:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	173372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	499360	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473077	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	387777	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.495	85	358962	14.023	ppbv	99
3) Chlorodifluoromethane	1.473	51	366164	14.002	ppbv	98
4) Chloromethane	1.531	50	148133	14.160	ppbv	98
5) Vinyl Chloride	1.576	62	141938	13.304	ppbv	97
6) Bromomethane	1.667	94	65113	13.734	ppbv	99
7) Chloroethane	1.703	64	58820	14.007	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	314834	14.442	ppbv	98
9) Propene	1.482	41	163799	13.902	ppbv	95
10) Heptane	4.972	43	446949	14.019	ppbv	99
11) Trichlorofluoromethane	1.874	101	349967	14.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	295217	14.419	ppbv	99
13) Ethanol	1.719	45	7382	8.001	ppbv	92
14) Bromoethene	1.780	108	106436	13.571	ppbv	98
15) Acetone	1.832	43	296254	12.218	ppbv	98
16) 1,3-Butadiene	1.605	39	150122	13.766	ppbv	100
17) tert-Butyl alcohol	2.039	59	416362	13.787	ppbv	99
18) 1,1-Dichloroethene	2.029	96	131720	13.762	ppbv	99
19) Isopropyl Alcohol	1.884	45	179117	13.093	ppbv	100
20) Methylene Chloride	2.059	84	113183	12.533	ppbv	95
21) Allyl Chloride	2.094	41	239440	14.002	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	149455	13.362	ppbv	98
23) Vinyl Acetate	2.460	43	138419	13.736	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	298760	14.570	ppbv	99
25) Ethyl Acetate	2.832	43	871882	13.855	ppbv	100
26) Hexane	2.822	57	344636	14.178	ppbv	98
27) Carbon Disulfide	2.146	76	370022	14.196	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	216463	14.303	ppbv	95
29) Chloroform	2.845	83	508614	14.297	ppbv	100
30) Cyclohexane	3.852	84	296458	14.040	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	351945	14.262	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	547329	13.448	ppbv	99
34) 2-Butanone	2.554	43	497020	13.726	ppbv	99
35) Carbon Tetrachloride	3.758	117	543385	14.140	ppbv	100
36) Benzene	3.651	78	699549	14.131	ppbv	98
37) 1,2-Dichloroethane	3.214	62	416544	14.697	ppbv	99
38) Trichloroethene	4.541	130	283430	13.715	ppbv	98
39) 1,2-Dichloropropane	4.308	63	257891	14.304	ppbv	99
40) 1,4-Dioxane	4.577	88	124925	13.354	ppbv #	91
41) Tetrahydrofuran	3.049	42	294634	14.301	ppbv	100
42) Bromodichloromethane	4.483	83	587772	15.043	ppbv	99
43) Methyl Methacrylate	4.874	69	295300	14.130	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	1180275	14.108	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	329360	14.649	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:37:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv	98
48) Dibromochloromethane	7.383	129	482431	14.936	ppbv	100
49) Bromoform	9.480	173	427143	14.730	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	755146	13.155	ppbv	99
51) 2-Hexanone	7.431	43	619419	13.005	ppbv #	99
52) Tetrachloroethene	8.221	164	258356	13.159	ppbv	95
53) Toluene	6.926	91	829648	14.137	ppbv	100
54) 1,2-Dibromoethane	7.645	107	381823	14.359	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.920	131	365410	14.032	ppbv	99
57) Chlorobenzene	8.917	112	618201	13.777	ppbv	100
58) Ethyl Benzene	9.351	91	1167096	13.889	ppbv	97
59) m/p-Xylene	9.548	91	1857561m	27.651	ppbv	
60) o-Xylene	9.962	91	913234	13.577	ppbv	99
61) Styrene	9.865	104	474195	14.250	ppbv	99
62) Isopropylbenzene	10.535	105	1362416	13.544	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	551386	13.491	ppbv	99
64) n-propylbenzene	10.985	120	356118	13.753	ppbv	94
65) tert-Butylbenzene	11.529	119	1200149	12.901	ppbv	98
66) Benzyl Chloride	11.613	91	134397	13.615	ppbv	100
67) sec-Butylbenzene	11.765	105	1643629	12.711	ppbv	99
69) p-Isopropyltoluene	11.924	119	1437016	12.906	ppbv	98
70) n-Butylbenzene	12.280	91	1477443	12.975	ppbv	99
71) 2-Chlorotoluene	10.898	91	1071432	13.724	ppbv	99
72) 4-Ethyltoluene	11.121	105	1136415	13.569	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	979783	13.395	ppbv	99
74) 1,2,4-Trimethylbenzene	11.535	105	1048874	12.447	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	626015	13.545	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	628694	13.668	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	602844	13.396	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	556392	12.147	ppbv	99
79) Naphthalene	13.513	128	1258479	13.653	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	718900	16.018	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	598416	14.075	ppbv	99

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

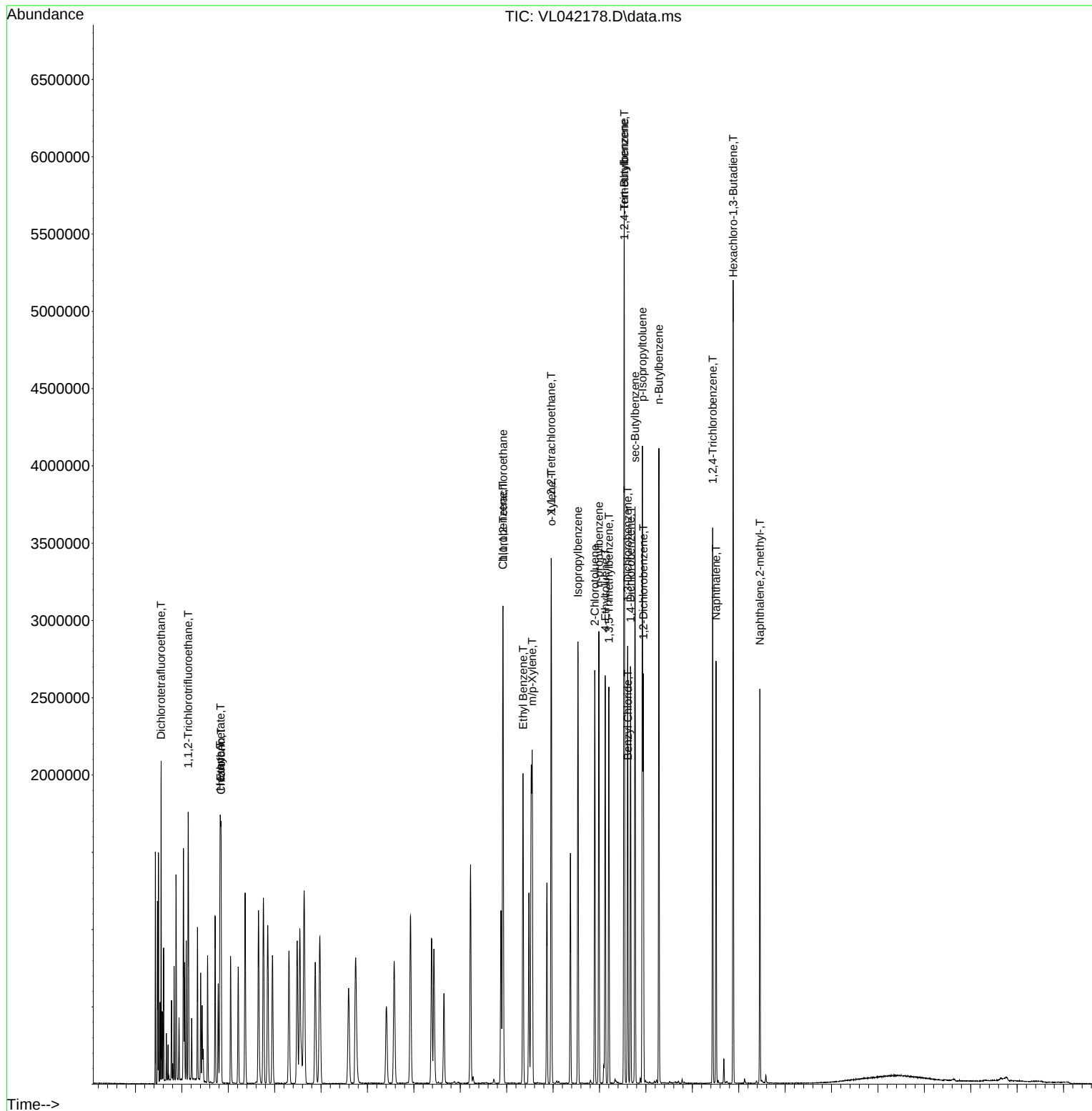
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	174350	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	498105	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473357	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	379929	9.774	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.496	85	245714	9.545	ppbv	100
3) Chlorodifluoromethane	1.473	51	247046	9.394	ppbv	97
4) Chloromethane	1.531	50	98527	9.365	ppbv	98
5) Vinyl Chloride	1.577	62	95578	8.573	ppbv	97
6) Bromomethane	1.667	94	41950	8.799	ppbv	97
7) Chloroethane	1.703	64	37400	8.856	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	213819	9.753	ppbv	95
9) Propene	1.483	41	105338	8.739	ppbv	99
10) Heptane	4.972	43	298768	9.318	ppbv	100
11) Trichlorofluoromethane	1.874	101	236793	9.453	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	193965	9.421	ppbv	98
13) Ethanol	1.719	45	5773	5.066	ppbv	97
14) Bromoethene	1.780	108	73572	9.328	ppbv	97
15) Acetone	1.832	43	198300	8.132	ppbv	98
16) 1,3-Butadiene	1.606	39	97840	8.216	ppbv	99
17) tert-Butyl alcohol	2.039	59	276195	9.094	ppbv	99
18) 1,1-Dichloroethene	2.033	96	87137	9.053	ppbv	89
19) Isopropyl Alcohol	1.884	45	122768	8.923	ppbv	98
20) Methylene Chloride	2.059	84	72813	8.018	ppbv	97
21) Allyl Chloride	2.094	41	157418	9.154	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	101141	9.092	ppbv	93
23) Vinyl Acetate	2.460	43	90260	8.553	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	197968	9.600	ppbv	99
25) Ethyl Acetate	2.832	43	592585	9.364	ppbv	99
26) Hexane	2.823	57	231125	9.455	ppbv	99
27) Carbon Disulfide	2.146	76	248834	9.493	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	146470	9.624	ppbv	95
29) Chloroform	2.845	83	344106	9.619	ppbv	100
30) Cyclohexane	3.852	84	197897	9.323	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	234487	9.449	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	365364	8.921	ppbv	99
34) 2-Butanone	2.554	43	331236	9.171	ppbv	99
35) Carbon Tetrachloride	3.758	117	363392	9.339	ppbv	98
36) Benzene	3.651	78	461261	9.341	ppbv	99
37) 1,2-Dichloroethane	3.217	62	273559	9.676	ppbv	99
38) Trichloroethene	4.541	130	191746	9.306	ppbv	97
39) 1,2-Dichloropropane	4.311	63	170839	9.500	ppbv	95
40) 1,4-Dioxane	4.577	88	80592	8.443	ppbv #	97
41) Tetrahydrofuran	3.052	42	196163	9.431	ppbv	99
42) Bromodichloromethane	4.486	83	384006	9.853	ppbv	100
43) Methyl Methacrylate	4.878	69	195339	9.344	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	787400	9.436	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	212335	9.467	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	265101	9.643	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	183228	9.638	ppbv	98
48) Dibromochloromethane	7.383	129	322766	10.018	ppbv	100
49) Bromoform	9.480	173	285149	9.858	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	500791	8.749	ppbv	99
51) 2-Hexanone	7.432	43	410889	8.741	ppbv #	99
52) Tetrachloroethene	8.221	164	173420	8.855	ppbv	93
53) Toluene	6.927	91	556897	9.514	ppbv	99
54) 1,2-Dibromoethane	7.645	107	256930	9.695	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	249270	9.567	ppbv	99
57) Chlorobenzene	8.917	112	422531	9.411	ppbv	98
58) Ethyl Benzene	9.351	91	791360	9.412	ppbv	98
59) m/p-Xylene	9.548	91	1260340m	18.772	ppbv	
60) o-Xylene	9.959	91	632918	9.404	ppbv	99
61) Styrene	9.866	104	315910	9.488	ppbv	99
62) Isopropylbenzene	10.539	105	944938	9.388	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	382635	9.357	ppbv	99
64) n-propylbenzene	10.985	120	244547	9.439	ppbv	98
65) tert-Butylbenzene	11.529	119	843828	9.065	ppbv	98
66) Benzyl Chloride	11.613	91	86804	8.789	ppbv	97
67) sec-Butylbenzene	11.765	105	1172636	9.063	ppbv	100
69) p-Isopropyltoluene	11.924	119	1019694	9.153	ppbv	100
70) n-Butylbenzene	12.280	91	1038548	9.115	ppbv	100
71) 2-Chlorotoluene	10.898	91	732874	9.382	ppbv	100
72) 4-Ethyltoluene	11.125	105	785185	9.370	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	673541	9.203	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	729155	8.648	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	426573	9.224	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	426318	9.263	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412180	9.154	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	356386	7.776	ppbv	100
79) Naphthalene	13.513	128	773311	8.385	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	323443	7.151	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	363863	8.553	ppbv	98

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

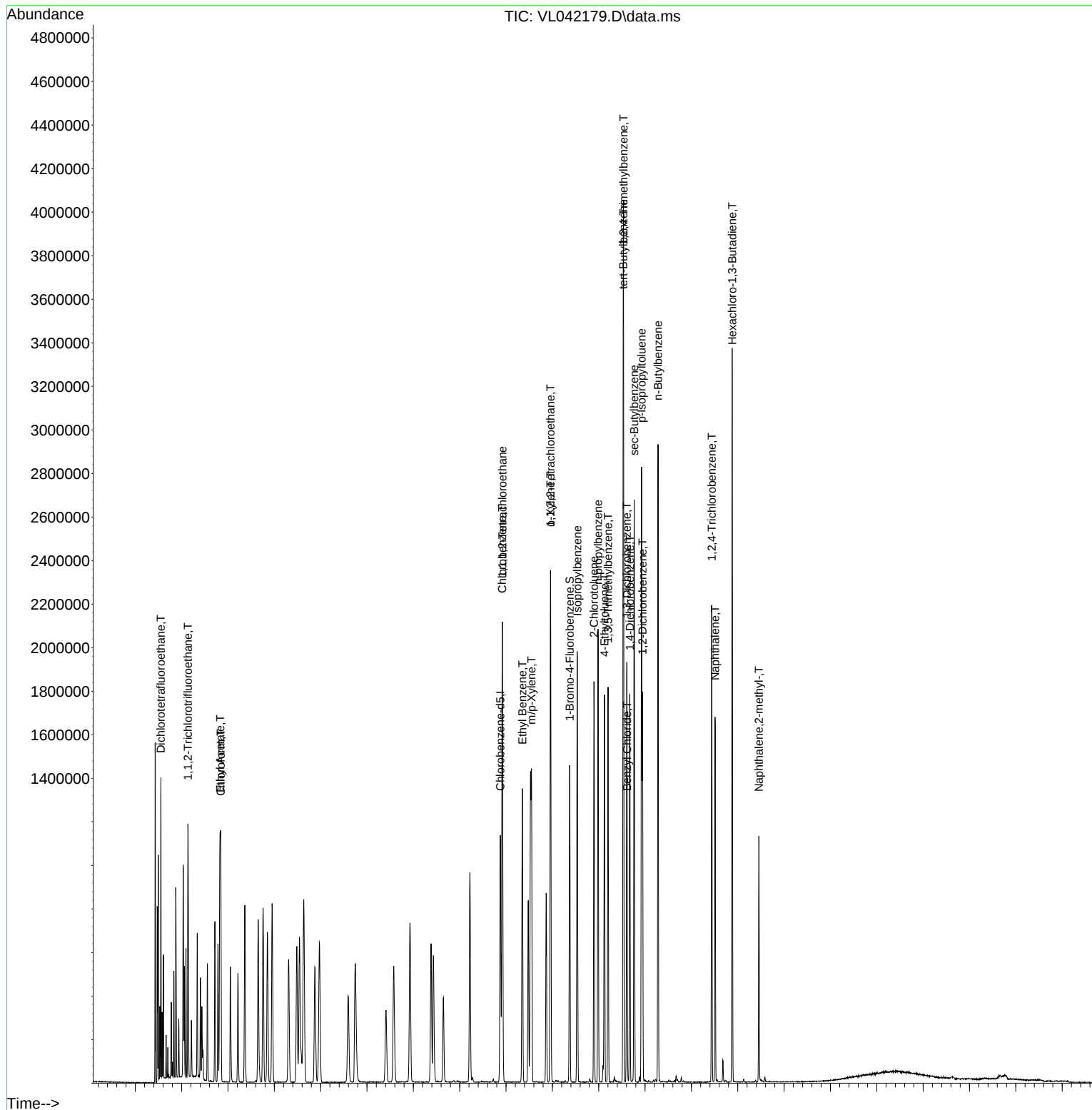
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	1.476	1.409	4.5	94	0.00
3	Chlorodifluoromethane	1.508	1.417	6.0	91	0.00
4	Chloromethane	0.603	0.565	6.3	92	0.00
5 T	Vinyl Chloride	0.639	0.548	14.2	93	0.00
6 T	Bromomethane	0.273	0.241	11.7	87	0.00
7	Chloroethane	0.242	0.215	11.2	88	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.226	2.5	94	0.00
9 T	Propene	0.691	0.604	12.6	85	0.00
10 T	Heptane	1.839	1.714	6.8	89	0.00
11 T	Trichlorofluoromethane	1.437	1.358	5.5	95	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.113	5.8	93	0.00
13	Ethanol	0.065	0.033#	49.2#	108	0.00
14 T	Bromoethene	0.452	0.422	6.6	94	0.00
15 T	Acetone	1.399	1.137	18.7	95	0.00
16 T	1,3-Butadiene	0.683	0.561	17.9	91	0.00
17	tert-Butyl alcohol	1.742	1.584	9.1	91	0.00
18 T	1,1-Dichloroethene	0.552	0.500	9.4	92	0.00
19 T	Isopropyl Alcohol	0.789	0.704	10.8	93	0.00
20 T	Methylene Chloride	0.521	0.418	19.8	89	0.00
21 T	Allyl Chloride	0.986	0.903	8.4	93	0.00
22 T	trans-1,2-Dichloroethene	0.638	0.580	9.1	92	0.00
23 T	Vinyl Acetate	0.605	0.518	14.4	97	0.00
24 T	1,1-Dichloroethane	1.183	1.135	4.1	94	0.00
25 T	Ethyl Acetate	3.630	3.399	6.4	92	0.00
26 T	Hexane	1.402	1.326	5.4	93	0.00
27 T	Carbon Disulfide	1.503	1.427	5.1	93	0.00
28 T	Methyl tert-Butyl Ether	0.873	0.840	3.8	94	0.00
29 T	Chloroform	2.052	1.974	3.8	95	0.00
30 T	Cyclohexane	1.217	1.135	6.7	91	0.00
31 T	cis-1,2-Dichloroethene	1.423	1.345	5.5	91	0.00
32 T	1,1,1-Trichloroethane	2.349	2.096	10.8	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.725	0.665	8.3	91	0.00
35 T	Carbon Tetrachloride	0.781	0.730	6.5	95	0.00
36 T	Benzene	0.991	0.926	6.6	91	0.00
37 T	1,2-Dichloroethane	0.568	0.549	3.3	93	0.00
38 T	Trichloroethene	0.414	0.385	7.0	94	0.00
39 T	1,2-Dichloropropane	0.361	0.343	5.0	93	0.00
40 T	1,4-Dioxane	0.192	0.162	15.6	87	0.00
41 T	Tetrahydrofuran	0.418	0.394	5.7	90	0.00
42 T	Bromodichloromethane	0.782	0.771	1.4	92	0.00
43	Methyl Methacrylate	0.420	0.392	6.7	89	0.00
44 T	2,2,4-Trimethylpentane	1.675	1.581	5.6	90	0.00
45 T	t-1,3-Dichloropropene	0.450	0.426	5.3	89	0.00
46 T	cis-1,3-Dichloropropene	0.552	0.532	3.6	88	0.00
47 T	1,1,2-Trichloroethane	0.382	0.368	3.7	92	0.00
48 T	Dibromochloromethane	0.647	0.648	-0.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.572	1.5	90	0.00
50 T	4-Methyl-2-Pentanone	1.149	1.005	12.5	89	0.00
51 T	2-Hexanone	0.944	0.825	12.6	89	0.00
52 T	Tetrachloroethene	0.393	0.348	11.5	93	0.00
53 T	Toluene	1.175	1.118	4.9	91	0.00
54 T	1,2-Dibromoethane	0.532	0.516	3.0	93	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56	1,1,1,2-Tetrachloroethane	0.550	0.527	4.2	94	0.00
57 T	Chlorobenzene	0.949	0.893	5.9	93	0.00
58 T	Ethyl Benzene	1.776	1.672	5.9	91	0.00
59 T	m/p-Xylene	1.418	1.331	6.1	92	0.00
60 T	o-Xylene	1.422	1.337	6.0	92	0.00
61 T	Styrene	0.703	0.667	5.1	89	0.00
62	Isopropylbenzene	2.126	1.996	6.1	93	0.00
63 T	1,1,2,2-Tetrachloroethane	0.864	0.808	6.5	93	0.00
64	n-propylbenzene	0.547	0.517	5.5	94	0.00
65	tert-Butylbenzene	1.966	1.783	9.3	94	0.00
66 T	Benzyl Chloride	0.209	0.183	12.4	82	0.00
67	sec-Butylbenzene	2.733	2.477	9.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	0.821	0.803	2.2	90	0.00
69	p-Isopropyltoluene	2.354	2.154	8.5	94	0.00
70	n-Butylbenzene	2.407	2.194	8.8	94	0.00
71	2-Chlorotoluene	1.650	1.548	6.2	92	0.00
72 T	4-Ethyltoluene	1.770	1.659	6.3	93	0.00
73 T	1,3,5-Trimethylbenzene	1.546	1.423	8.0	93	0.00
74 T	1,2,4-Trimethylbenzene	1.781	1.540	13.5	93	0.00
75 T	1,3-Dichlorobenzene	0.977	0.901	7.8	93	0.00
76 T	1,4-Dichlorobenzene	0.972	0.901	7.3	92	0.00
77 T	1,2-Dichlorobenzene	0.951	0.871	8.4	93	0.00
78 T	Hexachloro-1,3-Butadiene	0.968	0.753	22.2	86	0.00
79 T	Naphthalene	1.948	1.634	16.1	82	0.00
80 T	Naphthalene,2-methyl-	0.955	0.683	28.5	63	0.00
81 T	1,2,4-Trichlorobenzene	0.899	0.769	14.5	82	0.00

(#) = Out of Range

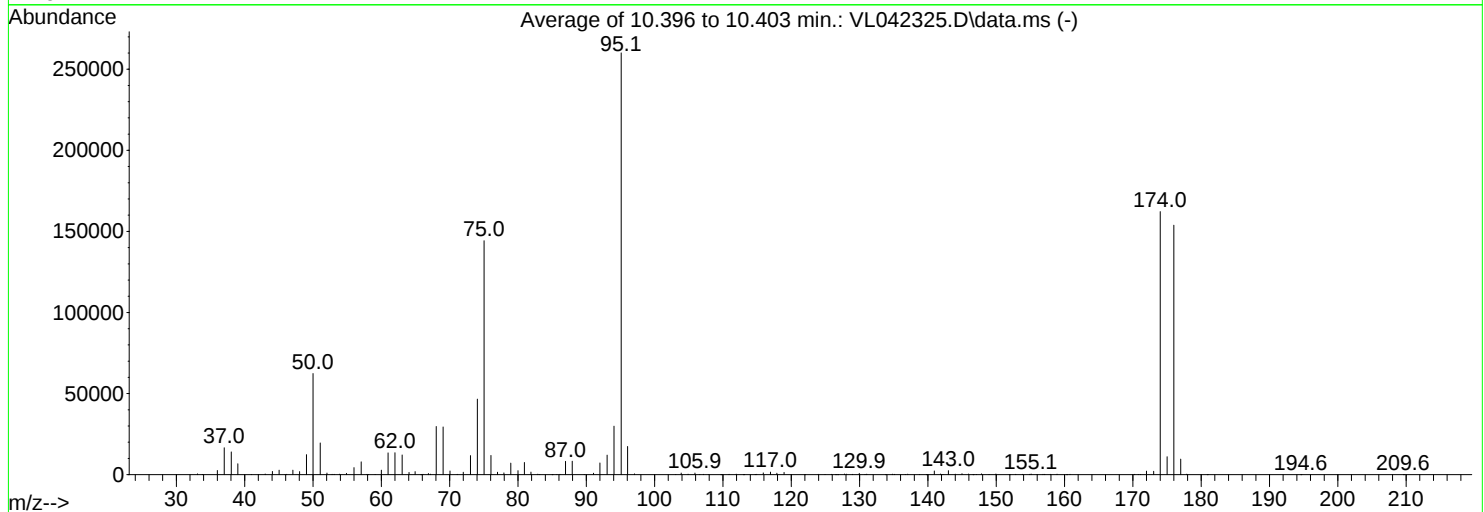
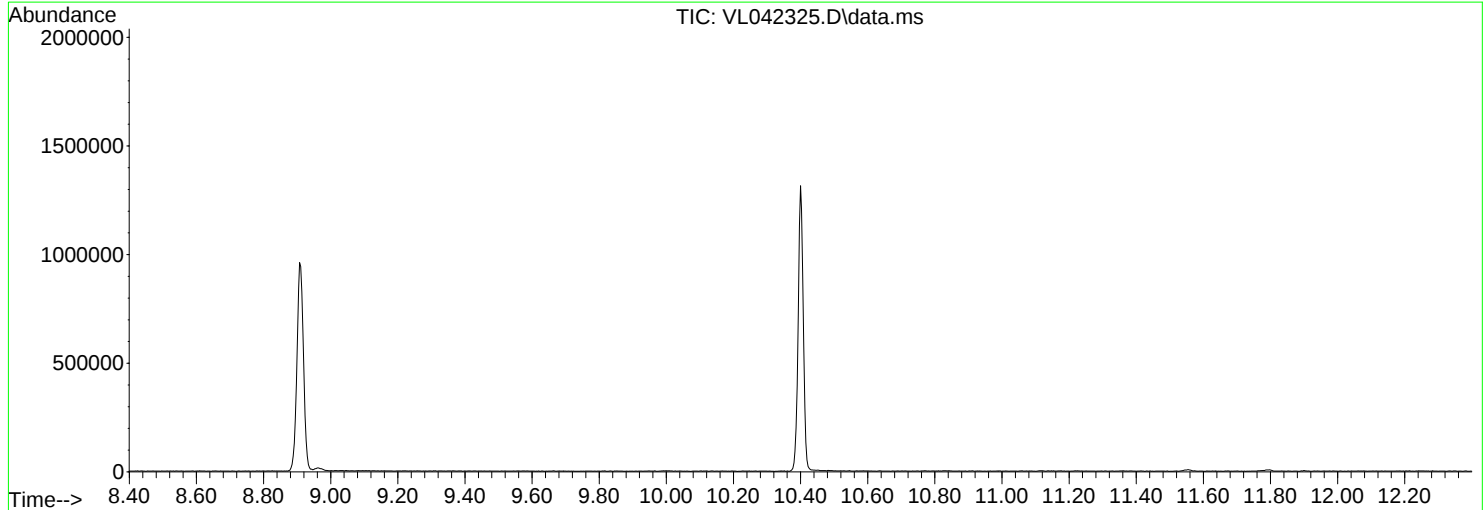
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042325.D
Acq On : 15 Apr 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\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3185, 3186, 3187; Background Corrected with Scan 3171

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.0	62363	PASS
75	95	30	66	55.5	144299	PASS
95	95	100	100	100.0	260117	PASS
96	95	5	9	6.7	17331	PASS
173	174	0.00	2	1.3	2038	PASS
174	95	50	120	62.4	162261	PASS
175	174	4	9	6.8	11092	PASS
176	174	93	101	94.8	153792	PASS
177	176	5	9	6.2	9603	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042326.D
 Acq On : 15 Apr 2025 11:30
 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 04/16/2025
 Supervised By : Mahesh Dadoda 04/16/2025

Quant Time: Apr 16 01:29:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.806	49	172263	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	457227	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.911	117	411493	10.000	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.403 95 325960 9.646 ppbv 0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	214541	8.435	ppbv	99
3) Chlorodifluoromethane	1.483	51	235250	9.054	ppbv	98
4) Chloromethane	1.541	50	89653	8.625	ppbv	98
5) Vinyl Chloride	1.589	62	83204	7.554	ppbv	96
6) Bromomethane	1.677	94	36297	7.705	ppbv	99
7) Chloroethane	1.716	64	32145	7.704	ppbv	97
8) Dichlorotetrafluoroethane	1.564	85	182884	8.443	ppbv	94
9) Propene	1.492	41	101034	8.483	ppbv	98
10) Heptane	5.020	43	276748	8.736	ppbv	98
11) Trichlorofluoromethane	1.887	101	202387	8.178	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.153	101	157030	7.719	ppbv	98
13) Ethanol	1.732	45	4440	3.944	ppbv	93
14) Bromoethene	1.793	108	59588	7.646	ppbv	99
15) Acetone	1.845	43	183439	7.614	ppbv	96
16) 1,3-Butadiene	1.619	39	90954	7.731	ppbv	100
17) tert-Butyl alcohol	2.052	59	209737	6.990	ppbv	100
18) 1,1-Dichloroethene	2.046	96	72322	7.605	ppbv	96
19) Isopropyl Alcohol	1.897	45	104424	7.682	ppbv	98
20) Methylene Chloride	2.075	84	60337	6.725	ppbv	90
21) Allyl Chloride	2.111	41	132956	7.825	ppbv	98
22) trans-1,2-Dichloroethene	2.357	96	81572	7.422	ppbv	96
23) Vinyl Acetate	2.480	43	72160	6.920	ppbv	97
24) 1,1-Dichloroethane	2.425	63	169411	8.315	ppbv	100
25) Ethyl Acetate	2.855	43	564611	9.030	ppbv	99
26) Hexane	2.845	57	213782	8.851	ppbv	98
27) Carbon Disulfide	2.166	76	195452	7.547	ppbv	97
28) Methyl tert-Butyl Ether	2.457	73	116301	7.734	ppbv	96
29) Chloroform	2.868	83	314164	8.888	ppbv	100
30) Cyclohexane	3.884	84	173360	8.266	ppbv	98
31) cis-1,2-Dichloroethene	2.739	61	208160	8.490	ppbv	96
32) 1,1,1-Trichloroethane	3.392	97	311758	7.704	ppbv	98
34) 2-Butanone	2.577	43	317117	9.565	ppbv	97
35) Carbon Tetrachloride	3.790	117	317942	8.902	ppbv	99
36) Benzene	3.684	78	424254	9.360	ppbv	94
37) 1,2-Dichloroethane	3.243	62	239556	9.231	ppbv	100
38) Trichloroethene	4.583	130	172146	9.102	ppbv	96
39) 1,2-Dichloropropane	4.350	63	151707	9.190	ppbv	96
40) 1,4-Dioxane	4.622	88	72075	8.226	ppbv #	98
41) Tetrahydrofuran	3.075	42	181471	9.505	ppbv	95
42) Bromodichloromethane	4.525	83	333167	9.313	ppbv	97
43) Methyl Methacrylate	4.923	69	155399	8.098	ppbv	96
44) 2,2,4-Trimethylpentane	4.677	57	728571	9.511	ppbv	99
45) t-1,3-Dichloropropene	6.461	75	151063	7.338	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042326.D
 Acq On : 15 Apr 2025 11:30
 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 04/16/2025
 Supervised By : Mahesh Dadoda 04/16/2025

Quant Time: Apr 16 01:29:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.648	75	204339	8.097	ppbv	98
47) 1,1,2-Trichloroethane	6.626	97	163132	9.348	ppbv	97
48) Dibromochloromethane	7.425	129	272592	9.217	ppbv	99
49) Bromoform	9.513	173	238880	8.997	ppbv	100
50) 4-Methyl-2-Pentanone	5.800	43	442851	8.428	ppbv	97
51) 2-Hexanone	7.474	43	353471	8.192	ppbv #	97
52) Tetrachloroethene	8.260	164	144481	8.037	ppbv	98
53) Toluene	6.975	91	461854	8.595	ppbv	100
54) 1,2-Dibromoethane	7.687	107	220075	9.047	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.956	131	214175	9.455	ppbv	99
57) Chlorobenzene	8.953	112	375357	9.617	ppbv	97
58) Ethyl Benzene	9.383	91	639857	8.754	ppbv	99
59) m/p-Xylene	9.581	91	1063509m	18.222	ppbv	
60) o-Xylene	9.992	91	528896	9.040	ppbv	95
61) Styrene	9.898	104	245300	8.474	ppbv	97
62) Isopropylbenzene	10.565	105	794408	9.079	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.992	83	343786	9.671	ppbv	100
64) n-propylbenzene	11.015	120	212879	9.452	ppbv	95
65) tert-Butylbenzene	11.555	119	721078	8.911	ppbv	97
66) Benzyl Chloride	11.639	91	54427	6.339	ppbv	98
67) sec-Butylbenzene	11.791	105	1026079	9.123	ppbv	99
69) p-Isopropyltoluene	11.947	119	865385	8.935	ppbv	99
70) n-Butylbenzene	12.303	91	884265	8.928	ppbv	99
71) 2-Chlorotoluene	10.927	91	599592	8.830	ppbv	98
72) 4-Ethyltoluene	11.147	105	657765	9.029	ppbv	99
73) 1,3,5-Trimethylbenzene	11.228	105	557593	8.764	ppbv	99
74) 1,2,4-Trimethylbenzene	11.558	105	623563	8.507	ppbv #	86
75) 1,3-Dichlorobenzene	11.630	146	381572	9.492	ppbv	98
76) 1,4-Dichlorobenzene	11.694	146	380035	9.499	ppbv	98
77) 1,2-Dichlorobenzene	11.969	146	379896	9.706	ppbv	97
78) Hexachloro-1,3-Butadiene	13.902	225	311900	7.828	ppbv	99
79) Naphthalene	13.533	128	760876	9.490	ppbv	99
80) Naphthalene,2-methyl-	14.478	142	365398	9.294	ppbv	98
81) 1,2,4-Trichlorobenzene	13.461	180	337032	9.114	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042326.D
 Acq On : 15 Apr 2025 11:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 16 01:29:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.02
2 T	Dichlorodifluoromethane	1.476	1.245	15.7	82	0.00
3	Chlorodifluoromethane	1.508	1.366	9.4	86	0.00
4	Chloromethane	0.603	0.520	13.8	84	0.00
5 T	Vinyl Chloride	0.639	0.483	24.4	81	0.01
6 T	Bromomethane	0.273	0.211	22.7	76	0.01
7	Chloroethane	0.242	0.187	22.7	76	0.01
8 T	Dichlorotetrafluoroethane	1.257	1.062	15.5	81	0.01
9 T	Propene	0.691	0.587	15.1	82	0.00
10 T	Heptane	1.839	1.607	12.6	83	0.05
11 T	Trichlorofluoromethane	1.437	1.175	18.2	81	0.01
12 T	1,1,2-Trichlorotrifluoroeth	1.181	0.912	22.8	75	0.02
13	Ethanol	0.065	0.026#	60.0#	83	0.01
14 T	Bromoethene	0.452	0.346	23.5	76	0.02
15 T	Acetone	1.399	1.065	23.9	88	0.01
16 T	1,3-Butadiene	0.683	0.528	22.7	85	0.01
17	tert-Butyl alcohol	1.742	1.218	30.1#	69	0.02
18 T	1,1-Dichloroethene	0.552	0.420	23.9	77	0.02
19 T	Isopropyl Alcohol	0.789	0.606	23.2	79	0.01
20 T	Methylene Chloride	0.521	0.350	32.8#	74	0.02
21 T	Allyl Chloride	0.986	0.772	21.7	79	0.02
22 T	trans-1,2-Dichloroethene	0.638	0.474	25.7	74	0.02
23 T	Vinyl Acetate	0.605	0.419	30.7#	78	0.02
24 T	1,1-Dichloroethane	1.183	0.983	16.9	81	0.02
25 T	Ethyl Acetate	3.630	3.278	9.7	87	0.02
26 T	Hexane	1.402	1.241	11.5	86	0.02
27 T	Carbon Disulfide	1.503	1.135	24.5	73	0.02
28 T	Methyl tert-Butyl Ether	0.873	0.675	22.7	75	0.02
29 T	Chloroform	2.052	1.824	11.1	87	0.02
30 T	Cyclohexane	1.217	1.006	17.3	80	0.03
31 T	cis-1,2-Dichloroethene	1.423	1.208	15.1	81	0.02
32 T	1,1,1-Trichloroethane	2.349	1.810	22.9	81	0.03
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.04
34 T	2-Butanone	0.725	0.694	4.3	87	0.02
35 T	Carbon Tetrachloride	0.781	0.695	11.0	83	0.03
36 T	Benzene	0.991	0.928	6.4	83	0.03
37 T	1,2-Dichloroethane	0.568	0.524	7.7	82	0.03
38 T	Trichloroethene	0.414	0.377	8.9	84	0.04
39 T	1,2-Dichloropropane	0.361	0.332	8.0	83	0.04
40 T	1,4-Dioxane	0.192	0.158	17.7	78	0.05
41 T	Tetrahydrofuran	0.418	0.397	5.0	84	0.03
42 T	Bromodichloromethane	0.782	0.729	6.8	80	0.04
43	Methyl Methacrylate	0.420	0.340	19.0	71	0.05
44 T	2,2,4-Trimethylpentane	1.675	1.593	4.9	83	0.04
45 T	t-1,3-Dichloropropene	0.450	0.330	26.7	63	0.05
46 T	cis-1,3-Dichloropropene	0.552	0.447	19.0	68	0.05
47 T	1,1,2-Trichloroethane	0.382	0.357	6.5	82	0.05
48 T	Dibromochloromethane	0.647	0.596	7.9	79	0.05

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042326.D
 Acq On : 15 Apr 2025 11:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 16 01:29:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.522	10.2	75	0.04
50 T	4-Methyl-2-Pentanone	1.149	0.969	15.7	79	0.05
51 T	2-Hexanone	0.944	0.773	18.1	77	0.04
52 T	Tetrachloroethene	0.393	0.316	19.6	77	0.04
53 T	Toluene	1.175	1.010	14.0	75	0.05
54 T	1,2-Dibromoethane	0.532	0.481	9.6	80	0.04
55 I	Chlorobenzene-d5	1.000	1.000	0.0	79	0.04
56	1,1,1,2-Tetrachloroethane	0.550	0.520	5.5	81	0.04
57 T	Chlorobenzene	0.949	0.912	3.9	83	0.04
58 T	Ethyl Benzene	1.776	1.555	12.4	74	0.03
59 T	m/p-Xylene	1.418	1.292	8.9	77	0.03
60 T	o-Xylene	1.422	1.285	9.6	77	0.03
61 T	Styrene	0.703	0.596	15.2	69	0.03
62	Isopropylbenzene	2.126	1.931	9.2	78	0.03
63 T	1,1,2,2-Tetrachloroethane	0.864	0.835	3.4	83	0.03
64	n-propylbenzene	0.547	0.517	5.5	82	0.03
65	tert-Butylbenzene	1.966	1.752	10.9	80	0.03
66 T	Benzyl Chloride	0.209	0.132	36.8#	52	0.03
67	sec-Butylbenzene	2.733	2.494	8.7	82	0.03
68 S	1-Bromo-4-Fluorobenzene	0.821	0.792	3.5	77	0.03
69	p-Isopropyltoluene	2.354	2.103	10.7	80	0.02
70	n-Butylbenzene	2.407	2.149	10.7	80	0.03
71	2-Chlorotoluene	1.650	1.457	11.7	75	0.03
72 T	4-Ethyltoluene	1.770	1.598	9.7	78	0.03
73 T	1,3,5-Trimethylbenzene	1.546	1.355	12.4	77	0.03
74 T	1,2,4-Trimethylbenzene	1.781	1.515	14.9	79	0.02
75 T	1,3-Dichlorobenzene	0.977	0.927	5.1	83	0.03
76 T	1,4-Dichlorobenzene	0.972	0.924	4.9	82	0.03
77 T	1,2-Dichlorobenzene	0.951	0.923	2.9	86	0.03
78 T	Hexachloro-1,3-Butadiene	0.968	0.758	21.7	75	0.02
79 T	Naphthalene	1.948	1.849	5.1	81	0.02
80 T	Naphthalene,2-methyl-	0.955	0.888	7.0	71	0.02
81 T	1,2,4-Trichlorobenzene	0.899	0.819	8.9	75	0.02

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042327.D
 Acq On : 15 Apr 2025 12:12
 Operator : SY/MD
 Sample : VL0415ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABL01

Quant Time: Apr 16 01:30:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.813	49	173729	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.994	114	447320	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.917	117	385318	10.000	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	292759	9.252	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.500%

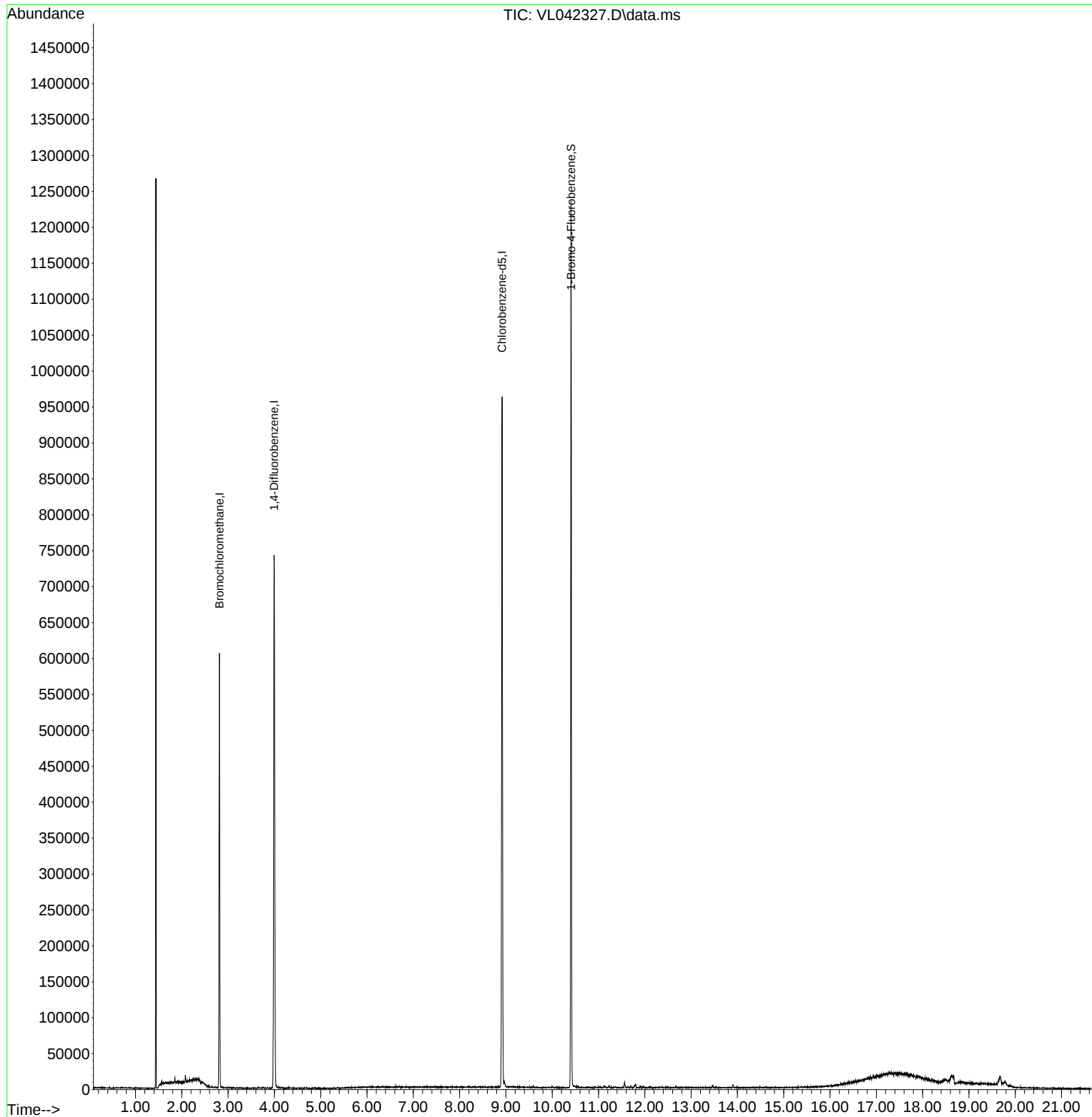
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042327.D
Acq On : 15 Apr 2025 12:12
Operator : SY/MD
Sample : VL0415ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0415ABL01

Quant Time: Apr 16 01:30:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042328.D
 Acq On : 15 Apr 2025 12:54
 Operator : SY/MD
 Sample : VL0415ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01

Quant Time: Apr 16 01:30:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/16/2025
 Supervised By : Mahesh Dadoda 04/16/2025

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

Internal Standards						
1) Bromochloromethane	2.810	49	171986	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.994	114	444595	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.917	117	399604	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	318902	9.718	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.509	85	214241	8.437	ppbv	99
3) Chlorodifluoromethane	1.486	51	234966	9.058	ppbv	97
4) Chloromethane	1.541	50	88230	8.502	ppbv	98
5) Vinyl Chloride	1.589	62	82221	7.476	ppbv	94
6) Bromomethane	1.680	94	36050	7.665	ppbv	100
7) Chloroethane	1.716	64	33039	7.931	ppbv	97
8) Dichlorotetrafluoroethane	1.564	85	178173	8.239	ppbv	95
9) Propene	1.492	41	94136	7.917	ppbv	99
10) Heptane	5.027	43	267288	8.451	ppbv	99
11) Trichlorofluoromethane	1.890	101	201665	8.162	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.156	101	154306	7.598	ppbv	98
13) Ethanol	1.732	45	4407	3.921	ppbv	97
14) Bromoethene	1.793	108	57635	7.408	ppbv	99
15) Acetone	1.848	43	178724	7.430	ppbv	96
16) 1,3-Butadiene	1.619	39	89479	7.617	ppbv	96
17) tert-Butyl alcohol	2.055	59	202421	6.757	ppbv	99
18) 1,1-Dichloroethene	2.049	96	69013	7.269	ppbv	97
19) Isopropyl Alcohol	1.900	45	100289	7.390	ppbv	97
20) Methylene Chloride	2.075	84	60054	6.704	ppbv	88
21) Allyl Chloride	2.111	41	127800	7.534	ppbv	98
22) trans-1,2-Dichloroethene	2.360	96	78991	7.198	ppbv	98
23) Vinyl Acetate	2.483	43	64777	6.222	ppbv	98
24) 1,1-Dichloroethane	2.428	63	168373	8.277	ppbv	99
25) Ethyl Acetate	2.861	43	545140	8.732	ppbv	99
26) Hexane	2.848	57	205629	8.528	ppbv	97
27) Carbon Disulfide	2.166	76	191388	7.402	ppbv	99
28) Methyl tert-Butyl Ether	2.460	73	107667	7.172	ppbv	96
29) Chloroform	2.874	83	309262	8.763	ppbv	100
30) Cyclohexane	3.891	84	165914	7.924	ppbv	98
31) cis-1,2-Dichloroethene	2.742	61	197651	8.074	ppbv	99
32) 1,1,1-Trichloroethane	3.395	97	304143	7.528	ppbv	97
34) 2-Butanone	2.580	43	300576	9.323	ppbv	98
35) Carbon Tetrachloride	3.797	117	314849	9.065	ppbv	99
36) Benzene	3.690	78	407959	9.256	ppbv	98
37) 1,2-Dichloroethane	3.247	62	235609	9.337	ppbv	99
38) Trichloroethene	4.590	130	164664	8.954	ppbv	96
39) 1,2-Dichloropropane	4.354	63	149260	9.299	ppbv	97
40) 1,4-Dioxane	4.625	88	68773	8.072	ppbv #	95
41) Tetrahydrofuran	3.082	42	173776	9.361	ppbv	95
42) Bromodichloromethane	4.532	83	327497	9.414	ppbv	99
43) Methyl Methacrylate	4.930	69	151531	8.121	ppbv	98
44) 2,2,4-Trimethylpentane	4.680	57	707832	9.503	ppbv	98
45) t-1,3-Dichloropropene	6.470	75	143714	7.179	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042328.D
 Acq On : 15 Apr 2025 12:54
 Operator : SY/MD
 Sample : VL0415ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0415ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/16/2025

Quant Time: Apr 16 01:30:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.658	75	192419	7.841	ppbv	96
47) 1,1,2-Trichloroethane	6.635	97	163251	9.621	ppbv	98
48) Dibromochloromethane	7.428	129	266192	9.256	ppbv	100
49) Bromoform	9.519	173	236686	9.168	ppbv	99
50) 4-Methyl-2-Pentanone	5.807	43	429988	8.416	ppbv	95
51) 2-Hexanone	7.480	43	344172	8.203	ppbv #	96
52) Tetrachloroethene	8.263	164	139845	8.000	ppbv	95
53) Toluene	6.978	91	447178	8.559	ppbv	99
54) 1,2-Dibromoethane	7.694	107	214982	9.089	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.959	131	216770	9.855	ppbv	98
57) Chlorobenzene	8.956	112	369132	9.739	ppbv	95
58) Ethyl Benzene	9.390	91	618669	8.716	ppbv	100
59) m/p-Xylene	9.584	91	1049238m	18.512	ppbv	
60) o-Xylene	9.995	91	517471	9.107	ppbv	96
61) Styrene	9.904	104	229601	8.168	ppbv	97
62) Isopropylbenzene	10.568	105	785673	9.247	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.995	83	351308	10.176	ppbv	99
64) n-propylbenzene	11.018	120	210294	9.615	ppbv	98
65) tert-Butylbenzene	11.558	119	718948	9.149	ppbv	97
66) Benzyl Chloride	11.642	91	55150	6.614	ppbv	99
67) sec-Butylbenzene	11.795	105	1018861	9.328	ppbv	100
69) p-Isopropyltoluene	11.950	119	863264	9.179	ppbv	99
70) n-Butylbenzene	12.306	91	891883	9.273	ppbv	99
71) 2-Chlorotoluene	10.930	91	590408	8.953	ppbv	99
72) 4-Ethyltoluene	11.150	105	652962	9.230	ppbv	98
73) 1,3,5-Trimethylbenzene	11.231	105	559451	9.055	ppbv	100
74) 1,2,4-Trimethylbenzene	11.565	105	632271	8.883	ppbv	97
75) 1,3-Dichlorobenzene	11.633	146	381882	9.782	ppbv	98
76) 1,4-Dichlorobenzene	11.697	146	383116	9.861	ppbv	98
77) 1,2-Dichlorobenzene	11.973	146	386768	10.175	ppbv	98
78) Hexachloro-1,3-Butadiene	13.905	225	314860	8.138	ppbv	100
79) Naphthalene	13.539	128	777722	9.989	ppbv	99
80) Naphthalene,2-methyl-	14.481	142	375541	9.836	ppbv	98
81) 1,2,4-Trichlorobenzene	13.465	180	343011	9.551	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042330.D
 Acq On : 15 Apr 2025 13:57
 Operator : SY/MD
 Sample : QC041425 CAN 10401
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC041425 CAN 10401

Quant Time: Apr 16 01:31:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.813	49	162884	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.997	114	405181	10.000	ppbv	0.05
55) Chlorobenzene-d5	8.917	117	353699	10.000	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	273327	9.410	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.100%

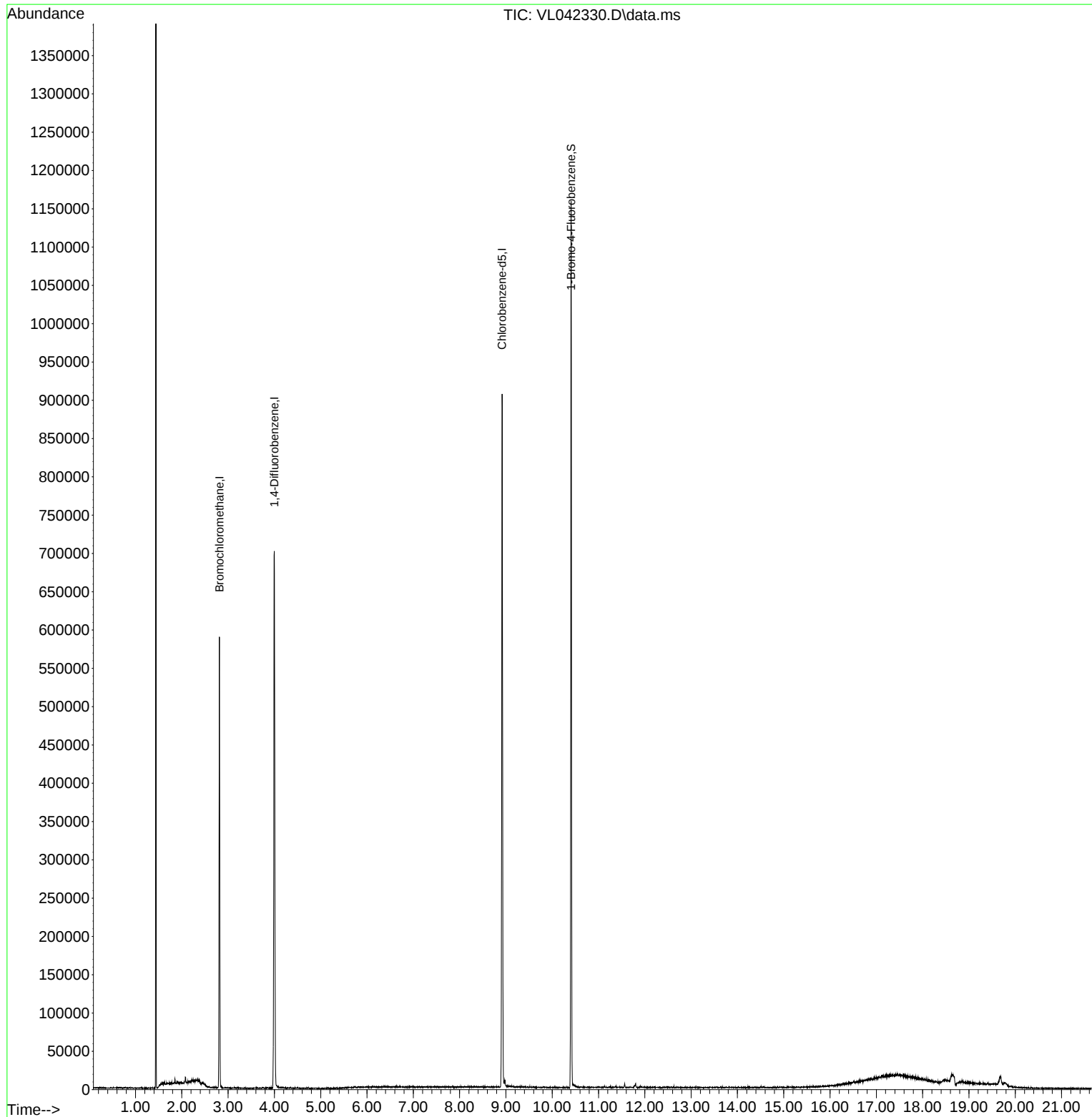
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
Data File : VL042330.D
Acq On : 15 Apr 2025 13:57
Operator : SY/MD
Sample : QC041425 CAN 10401
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC041425 CAN 10401

Quant Time: Apr 16 01:31:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

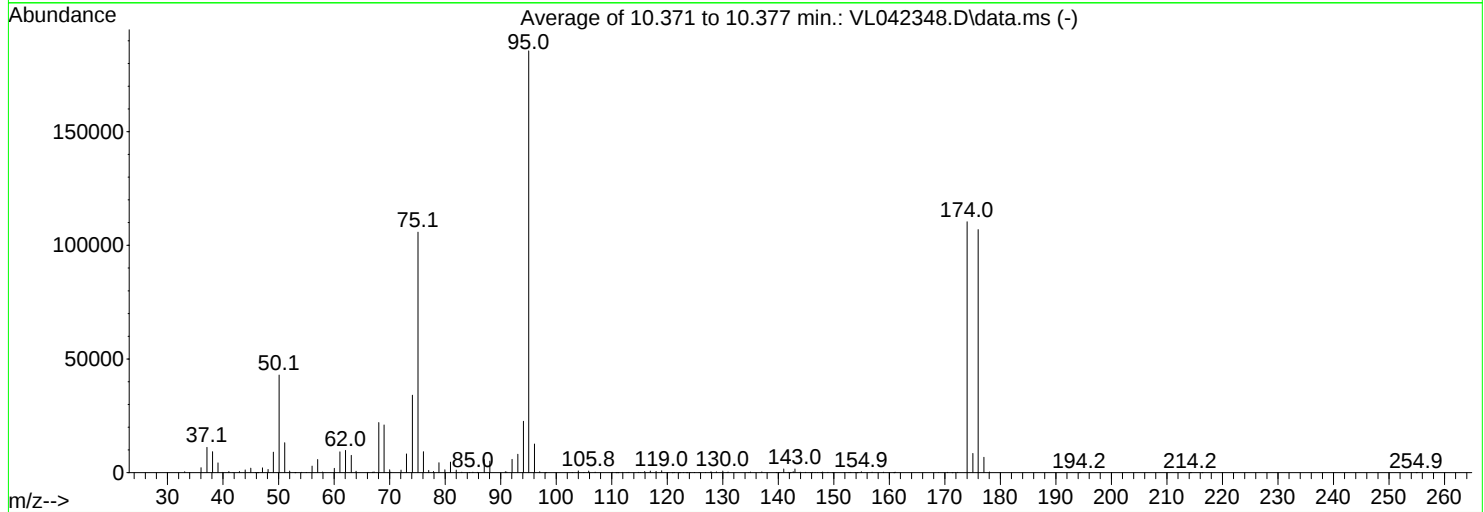
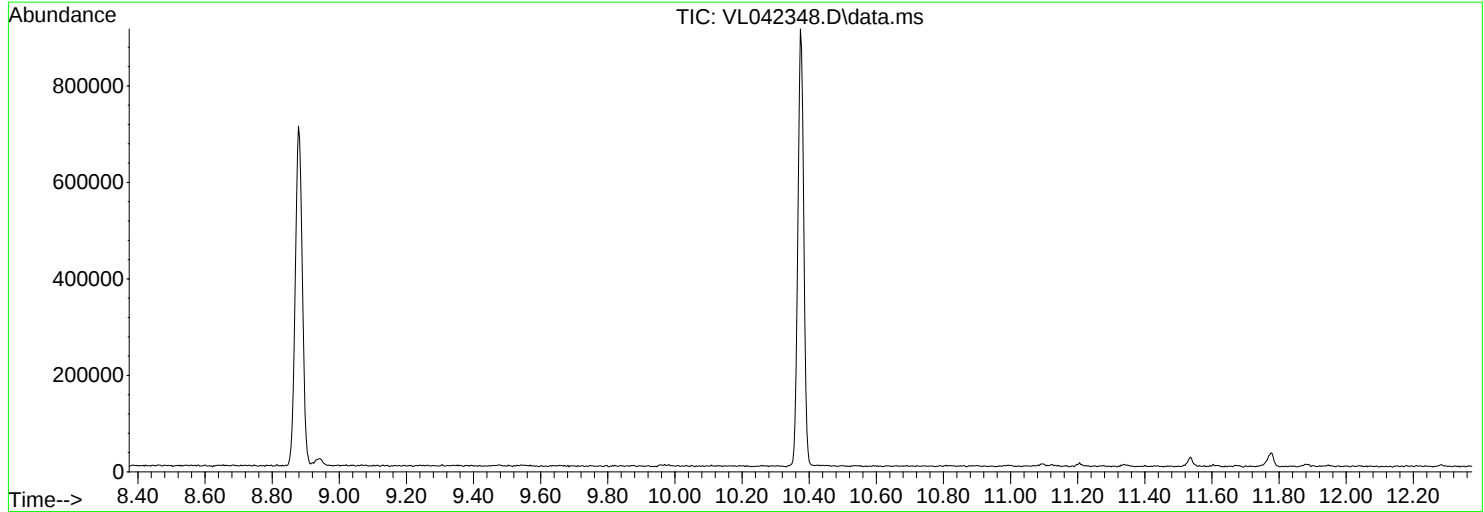


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042348.D
Acq On : 17 Apr 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.1	42933	PASS
75	95	30	66	57.0	105781	PASS
95	95	100	100	100.0	185564	PASS
96	95	5	9	6.8	12627	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	59.5	110360	PASS
175	174	4	9	7.6	8420	PASS
176	174	93	101	96.9	106933	PASS
177	176	5	9	6.3	6744	PASS

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

Method File : VL041725AIR.M

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

Last Update : Fri Apr 18 02:14:00 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042354.D 0.1 =VL042353.D 0.5 =VL042352.D 1 =VL042351.D 2 =VL042350.D 10 =VL042349.D 15 =VL042355.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.831	1.837	1.827	1.658	1.682	1.767	5.05
3) Chlorodifluoro...			1.876	1.657	1.698	1.573	1.608	1.682	7.01
4) Chloromethane			0.752	0.725	0.701	0.652	0.665	0.699	5.93
5) T Vinyl Chloride	1.002	0.911	0.731	0.709	0.689	0.638	0.647	0.761	18.39
6) T Bromomethane			0.397	0.330	0.300	0.304	0.303	0.327	12.56
7) Chloroethane			0.303	0.287	0.280	0.253	0.255	0.275	7.76
8) T Dichlorotetra...			1.556	1.550	1.581	1.432	1.465	1.517	4.25
9) T Propene			0.880	0.797	0.758	0.690	0.707	0.766	9.95
10) T Heptane			2.444	2.296	2.209	1.884	1.931	2.153	11.14
11) T Trichlorofluor...			1.684	1.806	1.746	1.567	1.597	1.680	5.95
12) T 1,1,2-Trichlor...			1.389	1.439	1.437	1.281	1.323	1.374	5.11
13) Ethanol			0.275	0.139	0.123	0.035	0.036	0.122	80.54
14) T Bromoethene			0.537	0.545	0.530	0.490	0.487	0.518	5.24
15) T Acetone			1.968	1.895	1.743	1.263	1.316	1.637	20.03
16) T 1,3-Butadiene			1.015	0.836	0.735	0.651	0.678	0.783	18.90
17) tert-Butyl alc...			2.263	2.132	2.103	1.804	1.841	2.029	9.76
18) T 1,1-Dichloroet...			0.735	0.635	0.637	0.583	0.618	0.642	8.79
19) T Isopropyl Alcohol			1.050	0.980	0.897	0.821	0.798	0.909	11.66
20) T Methylene Chlo...			0.875	0.728	0.582	0.498	0.523	0.641	24.71
21) T Allyl Chloride			1.276	1.213	1.110	0.973	1.080	1.130	10.44
22) T trans-1,2-Dich...			0.814	0.759	0.736	0.664	0.681	0.731	8.32
23) T Vinyl Acetate			0.656	0.744	0.749	0.555	0.610	0.663	12.72
24) T 1,1-Dichloroet...			1.452	1.469	1.383	1.284	1.352	1.388	5.43
25) T Ethyl Acetate			4.428	4.147	4.118	3.677	3.812	4.036	7.34
26) T Hexane			1.899	1.719	1.625	1.424	1.499	1.633	11.45
27) T Carbon Disulfide			1.903	1.670	1.785	1.668	1.718	1.749	5.63
28) T Methyl tert-Bu...			1.134	1.141	1.132	0.940	1.004	1.070	8.64
29) T Chloroform			2.458	2.333	2.392	2.145	2.215	2.309	5.54
30) T Cyclohexane			1.422	1.333	1.347	1.252	1.249	1.320	5.50
31) T cis-1,2-Dichlo...			1.588	1.603	1.593	1.459	1.522	1.553	3.95
32) T 1,1,1-Trichlor...	3.110	2.840	2.557	2.549	2.493	2.274	2.369	2.599	11.03

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.886	0.826	0.818	0.687	0.737	0.791	9.94
35) T Carbon Tetrach...	1.319	0.914	0.832	0.830	0.847	0.770	0.823	0.905	20.70
36) T Benzene			1.146	1.075	1.121	1.002	1.048	1.079	5.31
37) T 1,2-Dichloroet...			0.691	0.647	0.666	0.592	0.641	0.647	5.63
38) T Trichloroethene	0.643	0.505	0.443	0.448	0.447	0.395	0.419	0.471	17.59
39) T 1,2-Dichloropr...			0.441	0.413	0.405	0.370	0.381	0.402	6.97

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL041725AIR.M											
40)	T	1,4-Dioxane			0.263	0.243	0.232	0.182	0.185	0.221	16.27
41)	T	Tetrahydrofuran			0.518	0.480	0.468	0.409	0.432	0.461	9.20
42)	T	Bromodichlorom...			0.943	0.909	0.912	0.852	0.889	0.901	3.71
43)		Methyl Methacr...			0.545	0.520	0.495	0.430	0.441	0.486	10.21
44)	T	2,2,4-Trimethy...			1.935	1.916	1.962	1.708	1.794	1.863	5.79
45)	T	t-1,3-Dichloro...			0.514	0.510	0.509	0.459	0.491	0.497	4.60
46)	T	cis-1,3-Dichlo...			0.613	0.617	0.637	0.570	0.603	0.608	4.05
47)	T	1,1,2-Trichlor...			0.423	0.429	0.420	0.376	0.399	0.410	5.32
48)	T	Dibromochlorom...			0.743	0.721	0.746	0.679	0.729	0.723	3.70
49)	T	Bromoform			0.622	0.623	0.675	0.616	0.627	0.633	3.82
50)	T	4-Methyl-2-Pen...			1.541	1.382	1.435	1.082	1.132	1.314	15.12
51)	T	2-Hexanone			1.341	1.311	1.411	0.893	0.938	1.179	20.69
52)	T	Tetrachloroethene	0.543	0.452	0.420	0.393	0.391	0.357	0.363	0.417	15.46
53)	T	Toluene			1.371	1.295	1.370	1.193	1.244	1.294	6.03
54)	T	1,2-Dibromoethane		0.621	0.582	0.605	0.606	0.539	0.562	0.586	5.27
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.621	0.640	0.635	0.550	0.581	0.605	6.37
57)	T	Chlorobenzene			1.129	1.067	1.068	0.956	0.981	1.040	6.79
58)	T	Ethyl Benzene			2.029	2.088	2.068	1.832	1.890	1.981	5.73
59)	T	m/p-Xylene			1.685	1.682	1.658	1.456	1.500	1.596	6.86
60)	T	o-Xylene			1.740	1.697	1.668	1.442	1.490	1.607	8.25
61)	T	Styrene			0.792	0.776	0.808	0.726	0.734	0.767	4.68
62)		Isopropylbenzene			2.517	2.470	2.439	2.170	2.202	2.360	6.83
63)	T	1,1,2,2-Tetrac...	1.407	1.176	0.990	0.985	0.968	0.873	0.892	1.042	18.12
64)		n-propylbenzene			0.645	0.605	0.610	0.542	0.564	0.593	6.81
65)		tert-Butylbenzene			2.319	2.358	2.315	1.907	1.945	2.169	10.27
66)	T	Benzyl Chloride			0.241	0.239	0.258	0.246	0.208	0.238	7.84
67)		sec-Butylbenzene			3.242	3.219	3.253	2.662	2.709	3.017	10.05
68)	S	1-Bromo-4-Fluo...	0.819	0.814	0.824	0.818	0.822	0.831	0.825	0.822	0.69
69)		p-Isopropyltol...			2.834	2.818	2.811	2.304	2.338	2.621	10.46
70)		n-Butylbenzene			2.985	2.926	2.953	2.370	2.414	2.730	11.33
71)		2-Chlorotoluene			1.972	1.924	1.920	1.695	1.744	1.851	6.65
72)	T	4-Ethyltoluene			2.055	2.118	2.054	1.765	1.833	1.965	7.92
73)	T	1,3,5-Trimethy...			1.894	1.851	1.841	1.517	1.570	1.735	10.19
74)	T	1,2,4-Trimethy...			2.348	2.245	2.168	1.671	1.698	2.026	15.71
75)	T	1,3-Dichlorobe...			1.119	1.121	1.119	0.948	0.960	1.053	8.64
76)	T	1,4-Dichlorobe...			1.138	1.115	1.122	0.944	0.974	1.059	8.69
77)	T	1,2-Dichlorobe...			1.085	1.093	1.114	0.904	0.924	1.024	9.88
78)	T	Hexachloro-1,3...			1.163	1.136	1.135	0.863	0.874	1.034	14.66
79)	T	Naphthalene		2.433	2.395	2.756	2.909	2.004	2.040	2.423	15.11
80)	T	Naphthalene,2-...			1.311	1.534	1.777	1.115	1.168	1.381	19.88
81)	T	1,2,4-Trichlor...			1.026	1.117	1.224	0.905	0.929	1.040	12.75

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 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 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:25:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	125455	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	366544	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	338126	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 281013 10.114 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	207962	9.382	ppbv	100
3) Chlorodifluoromethane	1.476	51	197334	9.350	ppbv	100
4) Chloromethane	1.531	50	81843	9.330	ppbv	100
5) Vinyl Chloride	1.580	62	80068	8.385	ppbv	100
6) Bromomethane	1.667	94	38128	9.219	ppbv	100
7) Chloroethane	1.703	64	31705	9.182	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	179696	9.442	ppbv	100
9) Propene	1.483	41	86530	9.002	ppbv	100
10) Heptane	4.978	43	236341	9.138	ppbv	100
11) Trichlorofluoromethane	1.877	101	196596	9.327	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	160682	9.323	ppbv	100
13) Ethanol	1.719	45	4439	5.651	ppbv	100
14) Bromoethene	1.780	108	61493	9.466	ppbv	100
15) Acetone	1.835	43	158490	7.717	ppbv	100
16) 1,3-Butadiene	1.609	39	81688	8.470	ppbv	100
17) tert-Butyl alcohol	2.039	59	226280	8.891	ppbv	100
18) 1,1-Dichloroethene	2.033	96	73186	8.833	ppbv	100
19) Isopropyl Alcohol	1.884	45	103029	9.031	ppbv	100
20) Methylene Chloride	2.062	84	62414	7.760	ppbv	100
21) Allyl Chloride	2.094	41	122115	8.611	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	83278	9.084	ppbv	100
23) Vinyl Acetate	2.460	43	69649	8.378	ppbv	100
24) 1,1-Dichloroethane	2.408	63	161102	9.251	ppbv	100
25) Ethyl Acetate	2.836	43	461315	9.110	ppbv	100
26) Hexane	2.826	57	178691	8.720	ppbv	100
27) Carbon Disulfide	2.149	76	209297	9.539	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	117924	8.783	ppbv	100
29) Chloroform	2.848	83	269088	9.290	ppbv	100
30) Cyclohexane	3.855	84	157035	9.517	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	183082	9.397	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	285336	9.187	ppbv	100
34) 2-Butanone	2.557	43	251704	8.683	ppbv	100
35) Carbon Tetrachloride	3.761	117	282402	8.513	ppbv	100
36) Benzene	3.654	78	367355	9.292	ppbv	100
37) 1,2-Dichloroethane	3.217	62	216999	9.145	ppbv	100
38) Trichloroethene	4.548	130	144767	8.352	ppbv	100
39) 1,2-Dichloropropane	4.311	63	135605	9.197	ppbv	100
40) 1,4-Dioxane	4.580	88	66662	8.348	ppbv #	100
41) Tetrahydrofuran	3.052	42	149905	8.950	ppbv	100
42) Bromodichloromethane	4.489	83	312268	9.456	ppbv	100
43) Methyl Methacrylate	4.881	69	157501	8.876	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	626085	9.157	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	168223	9.233	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 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 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:25:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

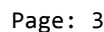
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv	100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv	100
49) Bromoform	9.480	173	225706	9.734	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	396548	8.215	ppbv	100
51) 2-Hexanone	7.435	43	327165	7.511	ppbv	100
52) Tetrachloroethene	8.225	164	130720	8.553	ppbv	100
53) Toluene	6.933	91	437258	9.216	ppbv	100
54) 1,2-Dibromoethane	7.652	107	197665	9.235	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	186041	9.091	ppbv	100
57) Chlorobenzene	8.920	112	323084	9.187	ppbv	100
58) Ethyl Benzene	9.354	91	619581	9.248	ppbv	100
59) m/p-Xylene	9.552	91	984458m	18.187	ppbv	
60) o-Xylene	9.963	91	487616	8.972	ppbv	100
61) Styrene	9.869	104	245487	9.464	ppbv	100
62) Isopropylbenzene	10.539	105	733788	9.197	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	295041	8.355	ppbv	100
64) n-propylbenzene	10.989	120	183390	9.144	ppbv	100
65) tert-Butylbenzene	11.532	119	644953	8.795	ppbv	100
66) Benzyl Chloride	11.617	91	83269	10.333	ppbv	100
67) sec-Butylbenzene	11.769	105	900074	8.824	ppbv	100
69) p-Isopropyltoluene	11.927	119	778987	8.790	ppbv	100
70) n-Butylbenzene	12.283	91	801364	8.682	ppbv	100
71) 2-Chlorotoluene	10.901	91	573039	9.157	ppbv	100
72) 4-Ethyltoluene	11.125	105	596757	8.982	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	512855	8.743	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	565064	8.248	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	320380	8.997	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	319089	8.915	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	305822	8.832	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	291833	8.346	ppbv	100
79) Naphthalene	13.513	128	677578	8.271	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	376995	8.074	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	306119	8.702	ppbv	100

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

Manual Integrations APPROVED

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042350.D
 Acq On : 17 Apr 2025 10:17
 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 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:26:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	123206	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	355918	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	335603	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 275715 9.998 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	45008	2.068	ppbv	95
3) Chlorodifluoromethane	1.476	51	41853	2.019	ppbv	97
4) Chloromethane	1.534	50	17272	2.005	ppbv	93
5) Vinyl Chloride	1.580	62	16979	1.811	ppbv	92
6) Bromomethane	1.667	94	7398	1.821	ppbv #	80
7) Chloroethane	1.706	64	6889	2.031	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	38955	2.084	ppbv	98
9) Propene	1.483	41	18671	1.978	ppbv	97
10) Heptane	4.978	43	54438m	2.143	ppbv	
11) Trichlorofluoromethane	1.877	101	43035	2.079	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	35415	2.092	ppbv	100
13) Ethanol	1.722	45	3034m	3.933	ppbv	
14) Bromoethene	1.780	108	13049	2.045	ppbv #	92
15) Acetone	1.835	43	42949	2.129	ppbv	93
16) 1,3-Butadiene	1.609	39	18110	1.912	ppbv	96
17) tert-Butyl alcohol	2.042	59	51829	2.074	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	15690	1.928	ppbv	87
19) Isopropyl Alcohol	1.887	45	22106	1.973	ppbv #	38
20) Methylene Chloride	2.062	84	14329	1.814	ppbv #	82
21) Allyl Chloride	2.098	41	27340	1.963	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	18142	2.015	ppbv	97
23) Vinyl Acetate	2.463	43	18454	2.260	ppbv #	91
24) 1,1-Dichloroethane	2.411	63	34077	1.993	ppbv	96
25) Ethyl Acetate	2.835	43	101467	2.040	ppbv	99
26) Hexane	2.826	57	40046	1.990	ppbv	99
27) Carbon Disulfide	2.149	76	43975	2.041	ppbv #	64
28) Methyl tert-Butyl Ether	2.441	73	27905	2.116	ppbv	97
29) Chloroform	2.848	83	58946	2.072	ppbv	100
30) Cyclohexane	3.858	84	33195	2.048	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	39249	2.051	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	61442	2.014	ppbv	99
34) 2-Butanone	2.560	43	58249	2.069	ppbv	100
35) Carbon Tetrachloride	3.761	117	60291	1.872	ppbv	88
36) Benzene	3.658	78	79814	2.079	ppbv	98
37) 1,2-Dichloroethane	3.217	62	47398	2.057	ppbv	100
38) Trichloroethene	4.544	130	31826m	1.891	ppbv	
39) 1,2-Dichloropropane	4.315	63	28806	2.012	ppbv	96
40) 1,4-Dioxane	4.593	88	16536m	2.133	ppbv	
41) Tetrahydrofuran	3.059	42	33298	2.047	ppbv	98
42) Bromodichloromethane	4.489	83	64941	2.025	ppbv	97
43) Methyl Methacrylate	4.881	69	35256	2.046	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	139641	2.103	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	36265	2.050	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042350.D
 Acq On : 17 Apr 2025 10:17
 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 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:26:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	45327m	2.096	ppbv	
47) 1,1,2-Trichloroethane	6.590	97	29879	2.049	ppbv	88
48) Dibromochloromethane	7.389	129	53069	2.061	ppbv	100
49) Bromoform	9.483	173	48069	2.135	ppbv	97
50) 4-Methyl-2-Pentanone	5.758	43	102182	2.180	ppbv	99
51) 2-Hexanone	7.441	43	100443	2.375	ppbv	98
52) Tetrachloroethene	8.228	164	27854	1.877	ppbv	96
53) Toluene	6.933	91	97493	2.116	ppbv	98
54) 1,2-Dibromoethane	7.655	107	43153	2.076	ppbv	87
56) 1,1,1,2-Tetrachloroethane	8.924	131	42601	2.097	ppbv	95
57) Chlorobenzene	8.924	112	71685	2.054	ppbv	98
58) Ethyl Benzene	9.357	91	138810	2.088	ppbv	98
59) m/p-Xylene	9.532	91	222542m	4.142	ppbv	
60) o-Xylene	9.963	91	111972	2.076	ppbv	98
61) Styrene	9.872	104	54229	2.106	ppbv	98
62) Isopropylbenzene	10.539	105	163716	2.067	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	64952	1.853	ppbv	99
64) n-propylbenzene	10.989	120	40956	2.058	ppbv	96
65) tert-Butylbenzene	11.532	119	155401	2.135	ppbv	92
66) Benzyl Chloride	11.616	91	17300	2.163	ppbv	98
67) sec-Butylbenzene	11.769	105	218327	2.156	ppbv	100
69) p-Isopropyltoluene	11.927	119	188657	2.145	ppbv	99
70) n-Butylbenzene	12.283	91	198221	2.164	ppbv	99
71) 2-Chlorotoluene	10.901	91	128858	2.075	ppbv	98
72) 4-Ethyltoluene	11.124	105	137872	2.091	ppbv	97
73) 1,3,5-Trimethylbenzene	11.205	105	123580	2.123	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	145510	2.140	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	75082	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	75323	2.120	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	74786	2.176	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	76158	2.194	ppbv	100
79) Naphthalene	13.513	128	195233	2.401	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	119262	2.574	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	82156	2.353	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:27:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	124177	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	359907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	329090	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 269087 9.950 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	22816	1.040	ppbv	93
3) Chlorodifluoromethane	1.476	51	20573	0.985	ppbv	97
4) Chloromethane	1.535	50	9008	1.038	ppbv	99
5) Vinyl Chloride	1.580	62	8807	0.932	ppbv	98
6) Bromomethane	1.671	94	4099	1.001	ppbv	91
7) Chloroethane	1.706	64	3559	1.041	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	19251	1.022	ppbv	100
9) Propene	1.486	41	9892	1.040	ppbv	92
10) Heptane	4.982	43	28507m	1.114	ppbv	
11) Trichlorofluoromethane	1.878	101	22428	1.075	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	17865	1.047	ppbv	98
13) Ethanol	1.722	45	1730m	2.225	ppbv	
14) Bromoethene	1.784	108	6766	1.052	ppbv #	89
15) Acetone	1.839	43	23537	1.158	ppbv	97
16) 1,3-Butadiene	1.609	39	10377m	1.087	ppbv	
17) tert-Butyl alcohol	2.043	59	26477	1.051	ppbv #	90
18) 1,1-Dichloroethene	2.036	96	7890	0.962	ppbv	94
19) Isopropyl Alcohol	1.888	45	12175	1.078	ppbv #	39
20) Methylene Chloride	2.062	84	9046	1.136	ppbv	87
21) Allyl Chloride	2.098	41	15057	1.073	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9421	1.038	ppbv	96
23) Vinyl Acetate	2.467	43	9234	1.122	ppbv #	90
24) 1,1-Dichloroethane	2.409	63	18236	1.058	ppbv	99
25) Ethyl Acetate	2.842	43	51494	1.027	ppbv #	97
26) Hexane	2.826	57	21350	1.053	ppbv	95
27) Carbon Disulfide	2.153	76	20739	0.955	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	14164	1.066	ppbv #	85
29) Chloroform	2.852	83	28973	1.011	ppbv	100
30) Cyclohexane	3.862	84	16547m	1.013	ppbv	
31) cis-1,2-Dichloroethene	2.723	61	19904	1.032	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	31653	1.030	ppbv	98
34) 2-Butanone	2.564	43	29735	1.045	ppbv	99
35) Carbon Tetrachloride	3.768	117	29875	0.917	ppbv	94
36) Benzene	3.661	78	38707	0.997	ppbv	95
37) 1,2-Dichloroethane	3.224	62	23284	0.999	ppbv	97
38) Trichloroethene	4.551	130	16119	0.947	ppbv	96
39) 1,2-Dichloropropane	4.318	63	14866	1.027	ppbv	96
40) 1,4-Dioxane	4.597	88	8737m	1.114	ppbv	
41) Tetrahydrofuran	3.062	42	17259	1.049	ppbv	96
42) Bromodichloromethane	4.490	83	32721	1.009	ppbv #	98
43) Methyl Methacrylate	4.885	69	18699m	1.073	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	68946m	1.027	ppbv	
45) t-1,3-Dichloropropene	6.416	75	18347m	1.026	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:27:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

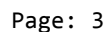
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	22189m	1.015	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	15457m	1.048	ppbv	
48) Dibromochloromethane	7.390	129	25948	0.997	ppbv	100
49) Bromoform	9.484	173	22413	0.984	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	49725	1.049	ppbv	97
51) 2-Hexanone	7.445	43	47178	1.103	ppbv	99
52) Tetrachloroethene	8.228	164	14154	0.943	ppbv	93
53) Toluene	6.940	91	46611	1.001	ppbv	100
54) 1,2-Dibromoethane	7.658	107	21780	1.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.927	131	21052	1.057	ppbv	95
57) Chlorobenzene	8.921	112	35113	1.026	ppbv #	95
58) Ethyl Benzene	9.354	91	68703	1.054	ppbv	96
59) m/p-Xylene	9.552	91	110702m	2.101	ppbv	
60) o-Xylene	9.966	91	55831	1.056	ppbv	99
61) Styrene	9.872	104	25544	1.012	ppbv	100
62) Isopropylbenzene	10.542	105	81286	1.047	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	32410	0.943	ppbv	99
64) n-propylbenzene	10.989	120	19898	1.019	ppbv	90
65) tert-Butylbenzene	11.533	119	77598	1.087	ppbv	92
66) Benzyl Chloride	11.617	91	7864	1.003	ppbv #	91
67) sec-Butylbenzene	11.769	105	105919	1.067	ppbv	97
69) p-Isopropyltoluene	11.928	119	92733	1.075	ppbv	97
70) n-Butylbenzene	12.284	91	96306	1.072	ppbv	99
71) 2-Chlorotoluene	10.905	91	63321	1.040	ppbv	99
72) 4-Ethyltoluene	11.128	105	69698	1.078	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	60927	1.067	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	73888	1.108	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	36877	1.064	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	36692	1.053	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	35977	1.068	ppbv	97
78) Hexachloro-1,3-Butadiene	13.886	225	37377	1.098	ppbv	99
79) Naphthalene	13.517	128	90710	1.138	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	50487	1.111	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	36764	1.074	ppbv	99

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

Manual Integrations

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:28:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	120542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	353137	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	321644	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 265161 10.032 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11036	0.518	ppbv	92
3) Chlorodifluoromethane	1.476	51	11304	0.557	ppbv #	84
4) Chloromethane	1.531	50	4534	0.538	ppbv	97
5) Vinyl Chloride	1.580	62	4406	0.480	ppbv	97
6) Bromomethane	1.667	94	2394	0.602	ppbv	95
7) Chloroethane	1.703	64	1824	0.550	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	9381	0.513	ppbv	99
9) Propene	1.483	41	5303	0.574	ppbv	93
10) Heptane	4.978	43	14728m	0.593	ppbv	
11) Trichlorofluoromethane	1.877	101	10150	0.501	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	8371	0.506	ppbv	93
13) Ethanol	1.719	45	1656m	2.194	ppbv	
14) Bromoethene	1.780	108	3238	0.519	ppbv #	93
15) Acetone	1.835	43	11859	0.601	ppbv #	74
16) 1,3-Butadiene	1.609	39	6120	0.660	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13640	0.558	ppbv #	85
18) 1,1-Dichloroethene	2.033	96	4430	0.556	ppbv #	87
19) Isopropyl Alcohol	1.884	45	6327	0.577	ppbv #	39
20) Methylene Chloride	2.059	84	5273	0.682	ppbv	93
21) Allyl Chloride	2.094	41	7692	0.565	ppbv #	81
22) trans-1,2-Dichloroethene	2.340	96	4908	0.557	ppbv	92
23) Vinyl Acetate	2.460	43	3953	0.495	ppbv #	57
24) 1,1-Dichloroethane	2.408	63	8753	0.523	ppbv #	94
25) Ethyl Acetate	2.835	43	26686	0.548	ppbv #	93
26) Hexane	2.823	57	11448	0.581	ppbv	91
27) Carbon Disulfide	2.149	76	11472	0.544	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	6833	0.530	ppbv #	32
29) Chloroform	2.848	83	14815	0.532	ppbv	93
30) Cyclohexane	3.852	84	8572	0.541	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	9571	0.511	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	15413	0.516	ppbv	97
34) 2-Butanone	2.560	43	15640	0.560	ppbv	97
35) Carbon Tetrachloride	3.761	117	14683	0.459	ppbv	87
36) Benzene	3.651	78	20233	0.531	ppbv	97
37) 1,2-Dichloroethane	3.217	62	12194	0.533	ppbv #	95
38) Trichloroethene	4.551	130	7819	0.468	ppbv #	78
39) 1,2-Dichloropropane	4.308	63	7790m	0.548	ppbv	
40) 1,4-Dioxane	4.599	88	4637m	0.603	ppbv	
41) Tetrahydrofuran	3.062	42	9144m	0.567	ppbv	
42) Bromodichloromethane	4.489	83	16642	0.523	ppbv #	91
43) Methyl Methacrylate	4.881	69	9620m	0.563	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	34170	0.519	ppbv	91
45) t-1,3-Dichloropropene	6.415	75	9073m	0.517	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:28:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	10827m	0.505	ppbv	
47) 1,1,2-Trichloroethane	6.577	97	7466m	0.516	ppbv	
48) Dibromochloromethane	7.386	129	13122	0.514	ppbv	97
49) Bromoform	9.477	173	10988	0.492	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	27206m	0.585	ppbv	
51) 2-Hexanone	7.441	43	23684	0.564	ppbv	98
52) Tetrachloroethene	8.221	164	7412	0.503	ppbv #	88
53) Toluene	6.927	91	24200	0.529	ppbv	97
54) 1,2-Dibromoethane	7.645	107	10282	0.499	ppbv	84
56) 1,1,1,2-Tetrachloroethane	8.930	131	9987	0.513	ppbv #	1
57) Chlorobenzene	8.917	112	18149m	0.543	ppbv	
58) Ethyl Benzene	9.351	91	32624	0.512	ppbv	97
59) m/p-Xylene	9.532	91	54197m	1.053	ppbv	
60) o-Xylene	9.963	91	27983	0.541	ppbv	99
61) Styrene	9.869	104	12736	0.516	ppbv	96
62) Isopropylbenzene	10.539	105	40481	0.533	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15920	0.474	ppbv	99
64) n-propylbenzene	10.985	120	10369	0.544	ppbv	97
65) tert-Butylbenzene	11.529	119	37294	0.535	ppbv	93
66) Benzyl Chloride	11.613	91	3878	0.506	ppbv #	91
67) sec-Butylbenzene	11.765	105	52139	0.537	ppbv	97
69) p-Isopropyltoluene	11.924	119	45574	0.541	ppbv	98
70) n-Butylbenzene	12.280	91	48004	0.547	ppbv	99
71) 2-Chlorotoluene	10.898	91	31709	0.533	ppbv	100
72) 4-Ethyltoluene	11.125	105	33048	0.523	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.202	105	30464	0.546	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	37765	0.579	ppbv #	90
75) 1,3-Dichlorobenzene	11.607	146	18003	0.531	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	18300	0.537	ppbv	96
77) 1,2-Dichlorobenzene	11.947	146	17446	0.530	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	18705	0.562	ppbv	98
79) Naphthalene	13.513	128	38521	0.494	ppbv #	92
80) Naphthalene,2-methyl-	14.458	142	21076	0.475	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	16504	0.493	ppbv	97

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

Manual Integrations

Quant Time: Apr 18 01:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042353.D
 Acq On : 17 Apr 2025 11:50
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:29:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	119461	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	350484	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	315004	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	256417	9.906	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	1088	0.120	ppbv #	74
32) 1,1,1-Trichloroethane	3.367	97	3393m	0.115	ppbv	
35) Carbon Tetrachloride	3.771	117	3204	0.101	ppbv #	94
38) Trichloroethene	4.551	130	1771m	0.107	ppbv	
52) Tetrachloroethene	8.222	164	1583m	0.108	ppbv	
54) 1,2-Dibromoethane	7.662	107	2177m	0.106	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3706m	0.113	ppbv	
79) Naphthalene	13.517	128	7664	0.100	ppbv #	92

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

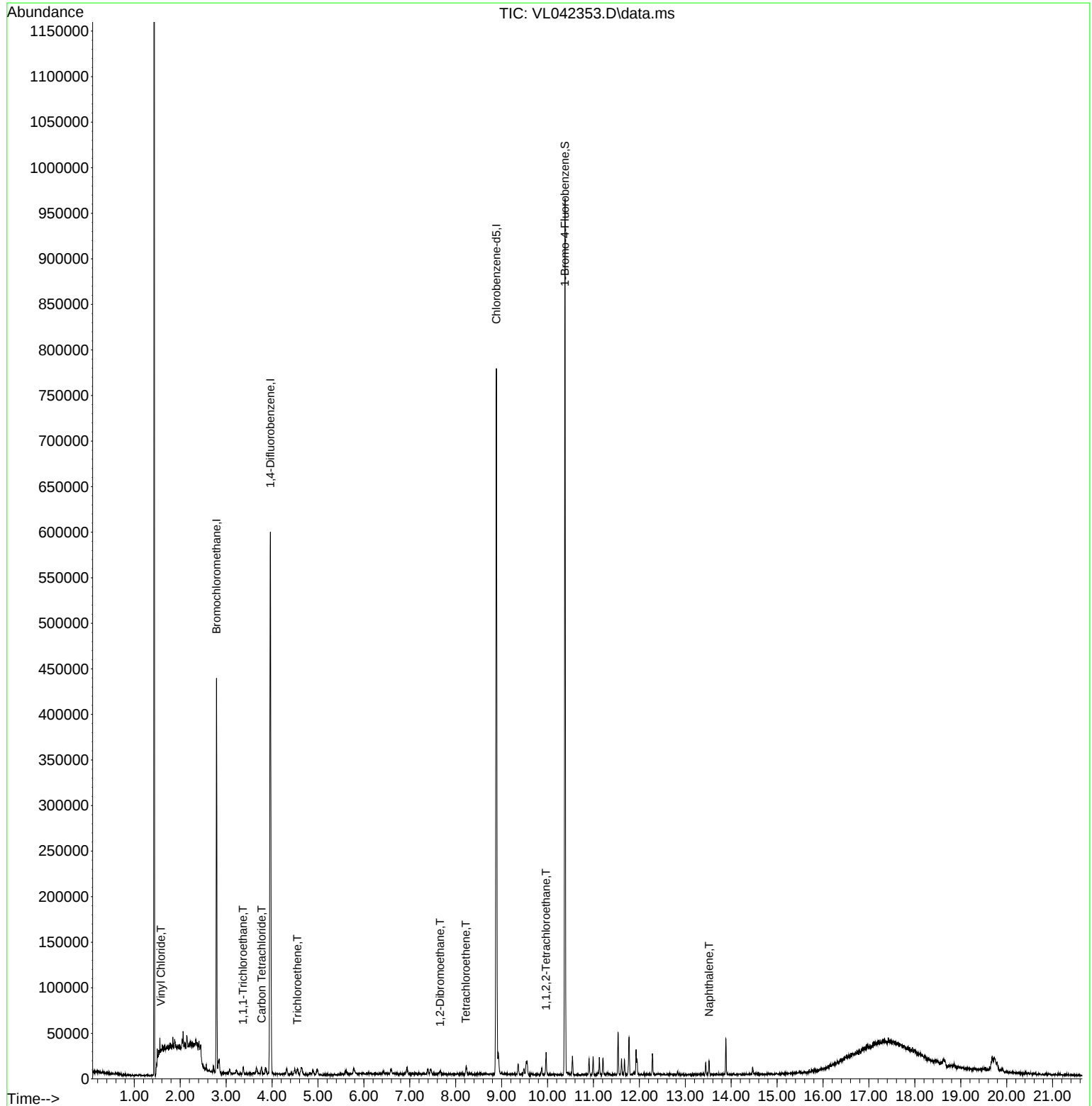
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042354.D
 Acq On : 17 Apr 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:07:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	120042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	349264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	312999	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	256230	9.962	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	361	0.040	ppbv	# 76
32) 1,1,1-Trichloroethane	3.373	97	1120m	0.038	ppbv	
35) Carbon Tetrachloride	3.768	117	1382m	0.044	ppbv	
38) Trichloroethene	4.538	130	674m	0.041	ppbv	
52) Tetrachloroethene	8.228	164	569m	0.039	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	1321m	0.040	ppbv	

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

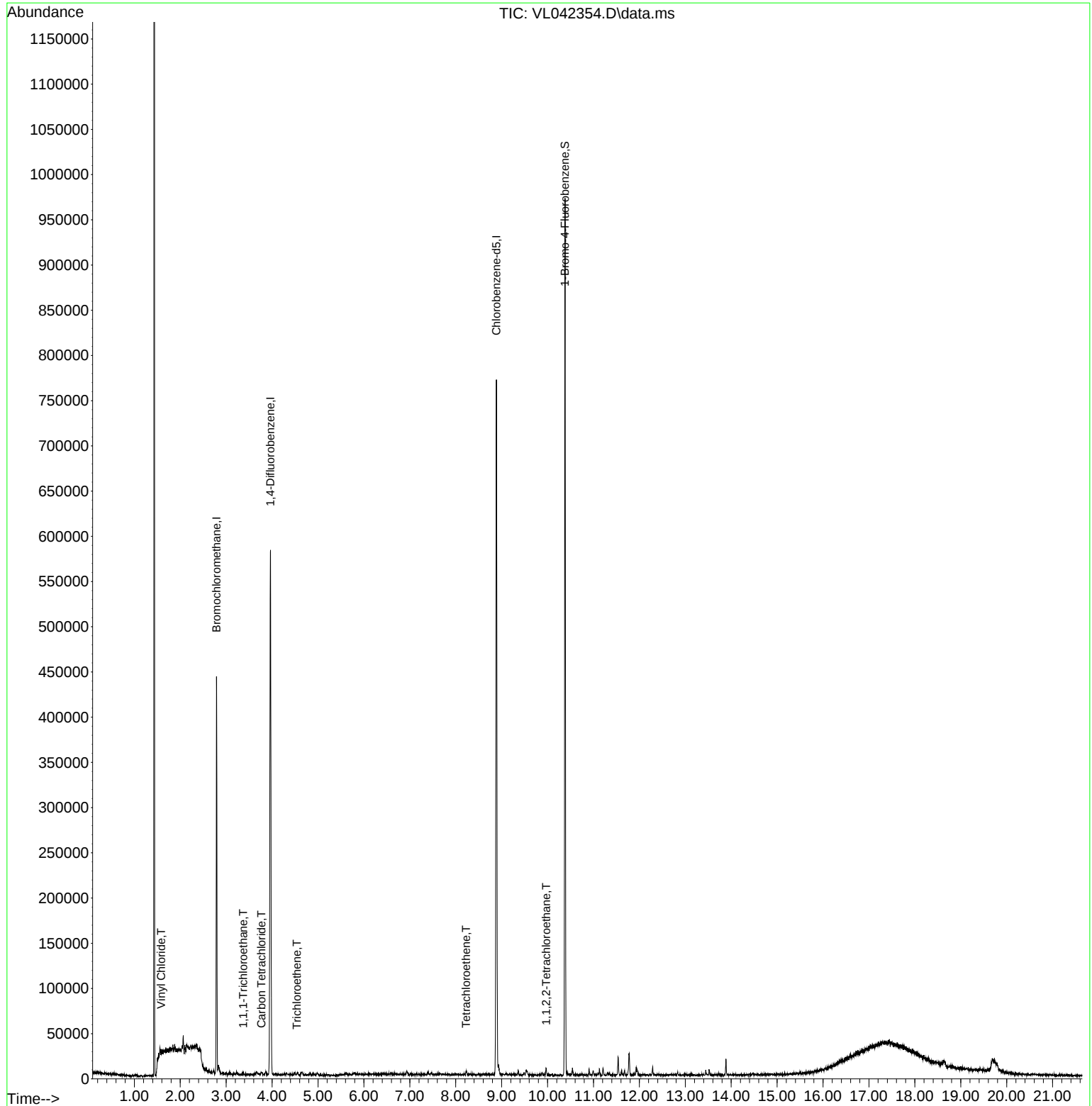
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:31:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	116071	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332080	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	308463	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 254437 10.038 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	292784	14.277	ppbv	99
3) Chlorodifluoromethane	1.477	51	280042	14.341	ppbv	98
4) Chloromethane	1.532	50	115775	14.266	ppbv	99
5) Vinyl Chloride	1.580	62	112650	12.752	ppbv	100
6) Bromomethane	1.667	94	52805	13.800	ppbv	88
7) Chloroethane	1.703	64	44347	13.881	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	255029	14.484	ppbv	98
9) Propene	1.483	41	123102	13.842	ppbv	95
10) Heptane	4.979	43	336134	14.047	ppbv	100
11) Trichlorofluoromethane	1.875	101	278059	14.258	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.137	101	230366	14.447	ppbv	99
13) Ethanol	1.719	45	6324	8.702	ppbv	76
14) Bromoethene	1.781	108	84851	14.117	ppbv	99
15) Acetone	1.833	43	229086	12.056	ppbv	99
16) 1,3-Butadiene	1.609	39	117997	13.224	ppbv	96
17) tert-Butyl alcohol	2.040	59	320605	13.615	ppbv	99
18) 1,1-Dichloroethene	2.033	96	107666	14.045	ppbv	99
19) Isopropyl Alcohol	1.884	45	139004	13.169	ppbv	94
20) Methylene Chloride	2.059	84	91093	12.241	ppbv	90
21) Allyl Chloride	2.095	41	187995	14.329	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	118492	13.970	ppbv	94
23) Vinyl Acetate	2.460	43	106135	13.799	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	235466	14.615	ppbv	99
25) Ethyl Acetate	2.836	43	663644	14.166	ppbv	100
26) Hexane	2.826	57	260975	13.765	ppbv	97
27) Carbon Disulfide	2.150	76	299098	14.734	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	174855	14.076	ppbv	95
29) Chloroform	2.849	83	385686	14.393	ppbv	99
30) Cyclohexane	3.855	84	217375	14.238	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	264972	14.700	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	412537	14.357	ppbv	99
34) 2-Butanone	2.558	43	367315	13.986	ppbv	100
35) Carbon Tetrachloride	3.762	117	409916	13.639	ppbv	94
36) Benzene	3.655	78	522156	14.578	ppbv	97
37) 1,2-Dichloroethane	3.218	62	319517	14.863	ppbv	100
38) Trichloroethene	4.548	130	208508	13.278	ppbv	98
39) 1,2-Dichloropropane	4.312	63	189697	14.201	ppbv	97
40) 1,4-Dioxane	4.580	88	92114	12.733	ppbv #	95
41) Tetrahydrofuran	3.053	42	214949	14.166	ppbv	98
42) Bromodichloromethane	4.490	83	442735	14.798	ppbv	95
43) Methyl Methacrylate	4.878	69	219757	13.670	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	893529	14.425	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	244470	14.810	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:31:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	300145	14.878	ppbv	90
47) 1,1,2-Trichloroethane	6.581	97	198874	14.615	ppbv	98
48) Dibromochloromethane	7.390	129	362887	15.105	ppbv	98
49) Bromoform	9.484	173	312282	14.865	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	563658	12.889	ppbv	99
51) 2-Hexanone	7.435	43	467001	11.834	ppbv #	98
52) Tetrachloroethene	8.225	164	180631	13.046	ppbv	97
53) Toluene	6.933	91	619420	14.411	ppbv	99
54) 1,2-Dibromoethane	7.652	107	280071	14.442	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.927	131	268626	14.389	ppbv	97
57) Chlorobenzene	8.921	112	454017	14.151	ppbv	97
58) Ethyl Benzene	9.354	91	874424	14.308	ppbv	100
59) m/p-Xylene	9.552	91	1388086m	28.109	ppbv	
60) o-Xylene	9.963	91	689246	13.902	ppbv	99
61) Styrene	9.872	104	339508	14.347	ppbv	99
62) Isopropylbenzene	10.539	105	1018968	13.999	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	412898	12.816	ppbv	100
64) n-propylbenzene	10.989	120	260812	14.255	ppbv	94
65) tert-Butylbenzene	11.533	119	899720	13.449	ppbv	93
66) Benzyl Chloride	11.617	91	96016	13.061	ppbv	96
67) sec-Butylbenzene	11.769	105	1253263	13.468	ppbv	100
69) p-Isopropyltoluene	11.928	119	1081850	13.382	ppbv	99
70) n-Butylbenzene	12.284	91	1117042	13.266	ppbv	100
71) 2-Chlorotoluene	10.902	91	806728	14.131	ppbv	100
72) 4-Ethyltoluene	11.125	105	848077	13.992	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	726558	13.578	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	785772	12.572	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	444086	13.670	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	450662	13.802	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	427372	13.529	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	404441	12.679	ppbv	100
79) Naphthalene	13.514	128	944085	12.632	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	540339	12.686	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	429982	13.398	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	113992	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	324528	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	305357	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 250149 9.969 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	197623	9.812	ppbv	100
3) Chlorodifluoromethane	1.476	51	191010	9.960	ppbv	99
4) Chloromethane	1.531	50	78080	9.796	ppbv	98
5) Vinyl Chloride	1.580	62	75628	8.717	ppbv	97
6) Bromomethane	1.667	94	35115	9.422	ppbv	84
7) Chloroethane	1.703	64	30158	9.612	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	172863	9.997	ppbv	98
9) Propene	1.482	41	84636	9.690	ppbv	95
10) Heptane	4.978	43	221840	9.041	ppbv	98
11) Trichlorofluoromethane	1.877	101	187827	9.807	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.140	101	148485	9.482	ppbv	100
13) Ethanol	1.722	45	4171	3.005	ppbv	97
14) Bromoethene	1.780	108	58320	9.880	ppbv	99
15) Acetone	1.835	43	158708	8.505	ppbv	100
16) 1,3-Butadiene	1.609	39	78804	8.829	ppbv	95
17) tert-Butyl alcohol	2.039	59	218954	9.468	ppbv	99
18) 1,1-Dichloroethene	2.033	96	67940	9.287	ppbv	94
19) Isopropyl Alcohol	1.887	45	96365	9.296	ppbv	95
20) Methylene Chloride	2.062	84	59203	8.101	ppbv	91
21) Allyl Chloride	2.094	41	120704	9.368	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	78070	9.373	ppbv	99
23) Vinyl Acetate	2.463	43	73373	9.714	ppbv	99
24) 1,1-Dichloroethane	2.408	63	155571	9.832	ppbv	100
25) Ethyl Acetate	2.835	43	449014	9.759	ppbv	99
26) Hexane	2.826	57	175752	9.439	ppbv	98
27) Carbon Disulfide	2.149	76	191117	9.587	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	115190	9.442	ppbv	94
29) Chloroform	2.848	83	260855	9.912	ppbv	98
30) Cyclohexane	3.855	84	148246	9.849	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	179993	10.167	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	276599	9.336	ppbv	98
34) 2-Butanone	2.557	43	248969	9.700	ppbv	99
35) Carbon Tetrachloride	3.764	117	271862	9.256	ppbv	98
36) Benzene	3.657	78	350545	10.014	ppbv	99
37) 1,2-Dichloroethane	3.217	62	211790	10.081	ppbv	99
38) Trichloroethene	4.551	130	139872	9.143	ppbv	96
39) 1,2-Dichloropropane	4.315	63	129239	9.908	ppbv	99
40) 1,4-Dioxane	4.583	88	61587	8.591	ppbv #	96
41) Tetrahydrofuran	3.052	42	141861	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	296946	10.156	ppbv	96
43) Methyl Methacrylate	4.878	69	149209	9.458	ppbv	96
44) 2,2,4-Trimethylpentane	4.641	57	606376	10.030	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	160750	9.975	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv	88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv	95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv	100
49) Bromoform	9.483	173	205630	10.016	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	376145	8.819	ppbv	99
51) 2-Hexanone	7.435	43	310521	8.118	ppbv #	99
52) Tetrachloroethene	8.224	164	119424	8.827	ppbv	94
53) Toluene	6.933	91	419462	9.986	ppbv	99
54) 1,2-Dibromoethane	7.652	107	186231	9.792	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	182712	9.886	ppbv	97
57) Chlorobenzene	8.920	112	304533	9.589	ppbv	96
58) Ethyl Benzene	9.354	91	583515	9.645	ppbv	99
59) m/p-Xylene	9.532	91	932801m	19.139	ppbv	
60) o-Xylene	9.966	91	464522	9.465	ppbv	99
61) Styrene	9.872	104	229869	9.813	ppbv	98
62) Isopropylbenzene	10.539	105	685965	9.520	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.962	83	279007	8.773	ppbv	100
64) n-propylbenzene	10.992	120	172654	9.533	ppbv	99
65) tert-Butylbenzene	11.532	119	609500	9.203	ppbv	93
66) Benzyl Chloride	11.613	91	63051	8.664	ppbv	95
67) sec-Butylbenzene	11.769	105	853807	9.268	ppbv	99
69) p-Isopropyltoluene	11.927	119	737861	9.220	ppbv	99
70) n-Butylbenzene	12.283	91	771461	9.255	ppbv	100
71) 2-Chlorotoluene	10.901	91	543794	9.622	ppbv	98
72) 4-Ethyltoluene	11.124	105	563136	9.385	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	486583	9.186	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	531576	8.592	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	297157	9.240	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	297697	9.210	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	289284	9.251	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	276960	8.771	ppbv	100
79) Naphthalene	13.513	128	647349	8.750	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	350259	8.307	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	290260	9.136	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL041725

Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 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	91	0.00
2 T	Dichlorodifluoromethane	1.767	1.734	1.9	95	0.00
3	Chlorodifluoromethane	1.682	1.676	0.4	97	0.00
4	Chloromethane	0.699	0.685	2.0	95	0.00
5 T	Vinyl Chloride	0.761	0.663	12.9	94	0.00
6 T	Bromomethane	0.327	0.308	5.8	92	0.00
7	Chloroethane	0.275	0.265	3.6	95	0.00
8 T	Dichlorotetrafluoroethane	1.517	1.516	0.1	96	0.00
9 T	Propene	0.766	0.742	3.1	98	0.00
10 T	Heptane	2.153	1.946	9.6	94	0.00
11 T	Trichlorofluoromethane	1.680	1.648	1.9	96	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.374	1.303	5.2	92	0.00
13	Ethanol	0.122	0.037#	69.7#	94	0.00
14 T	Bromoethene	0.518	0.512	1.2	95	0.00
15 T	Acetone	1.637	1.392	15.0	100	0.00
16 T	1,3-Butadiene	0.783	0.691	11.7	96	0.00
17	tert-Butyl alcohol	2.029	1.921	5.3	97	0.00
18 T	1,1-Dichloroethene	0.642	0.596	7.2	93	0.00
19 T	Isopropyl Alcohol	0.909	0.845	7.0	94	0.00
20 T	Methylene Chloride	0.641	0.519	19.0	95	0.00
21 T	Allyl Chloride	1.130	1.059	6.3	99	0.00
22 T	trans-1,2-Dichloroethene	0.731	0.685	6.3	94	0.00
23 T	Vinyl Acetate	0.663	0.644	2.9	105	0.00
24 T	1,1-Dichloroethane	1.388	1.365	1.7	97	0.00
25 T	Ethyl Acetate	4.036	3.939	2.4	97	0.00
26 T	Hexane	1.633	1.542	5.6	98	0.00
27 T	Carbon Disulfide	1.749	1.677	4.1	91	0.00
28 T	Methyl tert-Butyl Ether	1.070	1.011	5.5	98	0.00
29 T	Chloroform	2.309	2.288	0.9	97	0.00
30 T	Cyclohexane	1.320	1.300	1.5	94	0.00
31 T	cis-1,2-Dichloroethene	1.553	1.579	-1.7	98	0.00
32 T	1,1,1-Trichloroethane	2.599	2.426	6.7	97	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
34 T	2-Butanone	0.791	0.767	3.0	99	0.00
35 T	Carbon Tetrachloride	0.905	0.838	7.4	96	0.00
36 T	Benzene	1.079	1.080	-0.1	95	0.00
37 T	1,2-Dichloroethane	0.647	0.653	-0.9	98	0.00
38 T	Trichloroethene	0.471	0.431	8.5	97	0.00
39 T	1,2-Dichloropropane	0.402	0.398	1.0	95	0.00
40 T	1,4-Dioxane	0.221	0.190	14.0	92	0.00
41 T	Tetrahydrofuran	0.461	0.437	5.2	95	0.00
42 T	Bromodichloromethane	0.901	0.915	-1.6	95	0.00
43	Methyl Methacrylate	0.486	0.460	5.3	95	0.00
44 T	2,2,4-Trimethylpentane	1.863	1.868	-0.3	97	0.00
45 T	t-1,3-Dichloropropene	0.497	0.495	0.4	96	0.00
46 T	cis-1,3-Dichloropropene	0.608	0.617	-1.5	96	0.00
47 T	1,1,2-Trichloroethane	0.410	0.418	-2.0	98	0.00
48 T	Dibromochloromethane	0.723	0.731	-1.1	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 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	0.633	0.634	-0.2	91	0.00
50 T	4-Methyl-2-Pentanone	1.314	1.159	11.8	95	0.00
51 T	2-Hexanone	1.179	0.957	18.8	95	0.00
52 T	Tetrachloroethene	0.417	0.368	11.8	91	0.00
53 T	Toluene	1.294	1.293	0.1	96	0.00
54 T	1,2-Dibromoethane	0.586	0.574	2.0	94	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.605	0.598	1.2	98	0.00
57 T	Chlorobenzene	1.040	0.997	4.1	94	0.00
58 T	Ethyl Benzene	1.981	1.911	3.5	94	0.00
59 T	m/p-Xylene	1.596	1.527	4.3	95	-0.02
60 T	o-Xylene	1.607	1.521	5.4	95	0.00
61 T	Styrene	0.767	0.753	1.8	94	0.00
62	Isopropylbenzene	2.360	2.246	4.8	93	0.00
63 T	1,1,2,2-Tetrachloroethane	1.042	0.914	12.3	95	0.00
64	n-propylbenzene	0.593	0.565	4.7	94	0.00
65	tert-Butylbenzene	2.169	1.996	8.0	95	0.00
66 T	Benzyl Chloride	0.238	0.206	13.4	76	0.00
67	sec-Butylbenzene	3.017	2.796	7.3	95	0.00
68 S	1-Bromo-4-Fluorobenzene	0.822	0.819	0.4	89	0.00
69	p-Isopropyltoluene	2.621	2.416	7.8	95	0.00
70	n-Butylbenzene	2.730	2.526	7.5	96	0.00
71	2-Chlorotoluene	1.851	1.781	3.8	95	0.00
72 T	4-Ethyltoluene	1.965	1.844	6.2	94	0.00
73 T	1,3,5-Trimethylbenzene	1.735	1.593	8.2	95	0.00
74 T	1,2,4-Trimethylbenzene	2.026	1.741	14.1	94	0.00
75 T	1,3-Dichlorobenzene	1.053	0.973	7.6	93	0.00
76 T	1,4-Dichlorobenzene	1.059	0.975	7.9	93	0.00
77 T	1,2-Dichlorobenzene	1.024	0.947	7.5	95	0.00
78 T	Hexachloro-1,3-Butadiene	1.034	0.907	12.3	95	0.00
79 T	Naphthalene	2.423	2.120	12.5	96	0.00
80 T	Naphthalene,2-methyl-	1.381	1.147	16.9	93	0.00
81 T	1,2,4-Trichlorobenzene	1.040	0.951	8.6	95	0.00

(#) = Out of Range

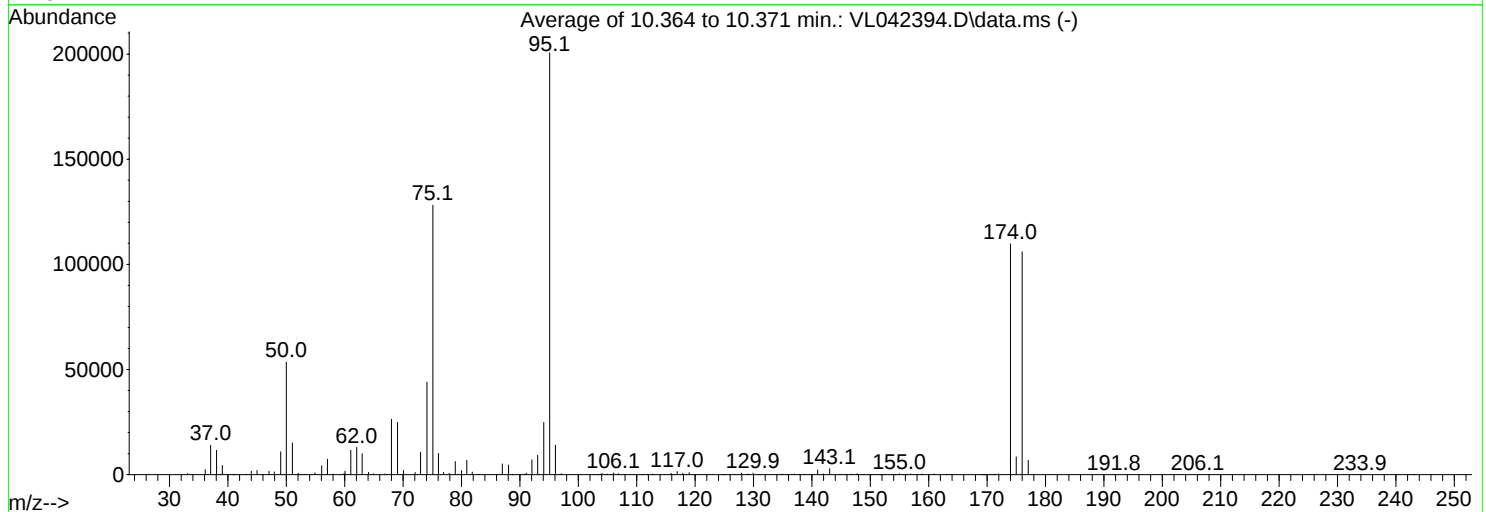
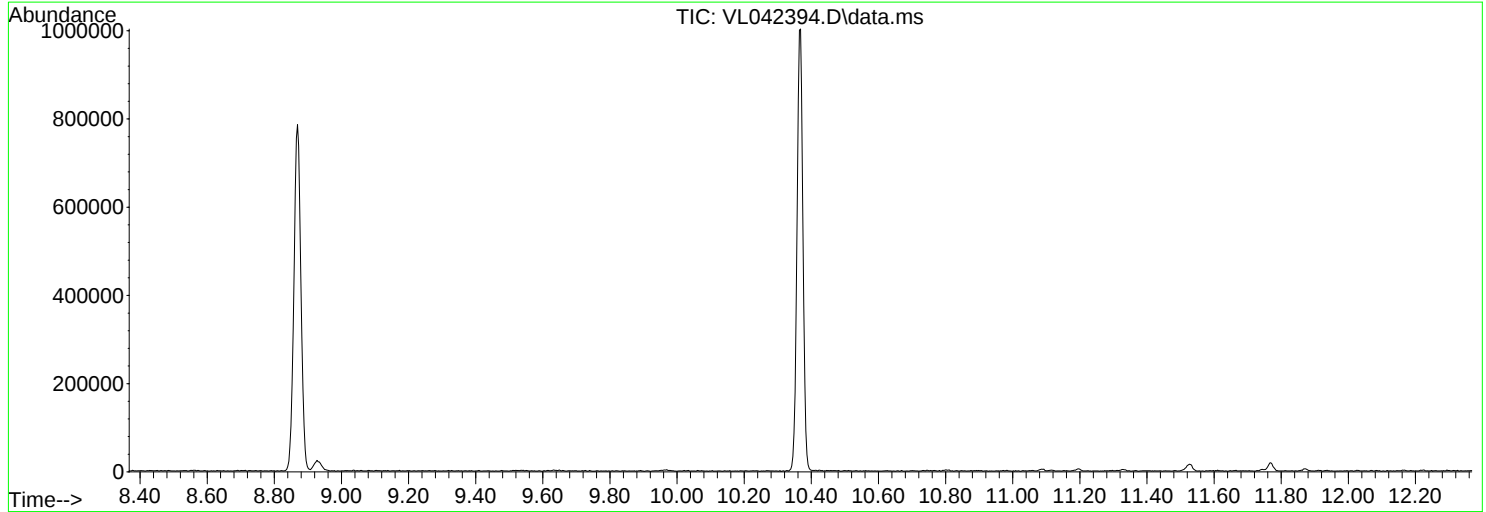
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
Data File : VL042394.D
Acq On : 21 Apr 2025 07:58
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\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.7	53502	PASS
75	95	30	66	63.9	128181	PASS
95	95	100	100	100.0	200597	PASS
96	95	5	9	7.0	13990	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	54.7	109757	PASS
175	174	4	9	7.7	8464	PASS
176	174	93	101	96.6	106032	PASS
177	176	5	9	6.4	6826	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042395.D
 Acq On : 21 Apr 2025 08:41
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/22/2025
 Supervised By : Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:50:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	118349	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	334726	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	297161	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 262155 10.736 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	214405	10.253	ppbv	95
3) Chlorodifluoromethane	1.473	51	172276	8.652	ppbv	96
4) Chloromethane	1.531	50	78242	9.455	ppbv	99
5) Vinyl Chloride	1.576	62	78692	8.736	ppbv	98
6) Bromomethane	1.664	94	36698	9.484	ppbv	92
7) Chloroethane	1.703	64	31945	9.806	ppbv	98
8) Dichlorotetrafluoroethane	1.551	85	182317	10.155	ppbv	94
9) Propene	1.483	41	67297	7.422	ppbv	98
10) Heptane	4.972	43	178981	7.026	ppbv	98
11) Trichlorofluoromethane	1.874	101	205368	10.328	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	154701	9.515	ppbv	99
13) Ethanol	1.719	45	4511	3.130	ppbv	88
14) Bromoethene	1.780	108	59325	9.680	ppbv	98
15) Acetone	1.832	43	168061	8.675	ppbv	99
16) 1,3-Butadiene	1.606	39	81189	8.762	ppbv	96
17) tert-Butyl alcohol	2.036	59	221320	9.218	ppbv	100
18) 1,1-Dichloroethene	2.030	96	70214	9.244	ppbv	97
19) Isopropyl Alcohol	1.884	45	98218	9.126	ppbv	94
20) Methylene Chloride	2.059	84	60052	7.915	ppbv	92
21) Allyl Chloride	2.091	41	121139	9.056	ppbv	97
22) trans-1,2-Dichloroethene	2.337	96	79496	9.192	ppbv	92
23) Vinyl Acetate	2.457	43	57298	7.306	ppbv	97
24) 1,1-Dichloroethane	2.405	63	154500	9.405	ppbv	100
25) Ethyl Acetate	2.832	43	392210	8.211	ppbv	99
26) Hexane	2.823	57	150573	7.789	ppbv	98
27) Carbon Disulfide	2.146	76	199908	9.658	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	106569	8.414	ppbv	95
29) Chloroform	2.845	83	259635	9.502	ppbv	98
30) Cyclohexane	3.852	84	126496	8.095	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	166357	9.051	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	285590	9.284	ppbv	99
34) 2-Butanone	2.554	43	220144	8.316	ppbv	99
35) Carbon Tetrachloride	3.755	117	291229	9.614	ppbv	91
36) Benzene	3.651	78	303987	8.420	ppbv	97
37) 1,2-Dichloroethane	3.214	62	221151	10.206	ppbv	97
38) Trichloroethene	4.541	130	123150	7.804	ppbv	94
39) 1,2-Dichloropropane	4.305	63	107877	8.018	ppbv #	88
40) 1,4-Dioxane	4.574	88	53874	7.286	ppbv #	94
41) Tetrahydrofuran	3.049	42	118863	7.701	ppbv	99
42) Bromodichloromethane	4.483	83	295552	9.800	ppbv	98
43) Methyl Methacrylate	4.875	69	124747	7.667	ppbv	95
44) 2,2,4-Trimethylpentane	4.629	57	507437	8.138	ppbv	95
45) t-1,3-Dichloropropene	6.406	75	142879	8.596	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042395.D
 Acq On : 21 Apr 2025 08:41
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:50:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	174844	8.595	ppbv	88
47) 1,1,2-Trichloroethane	6.571	97	119399	8.711	ppbv	92
48) Dibromochloromethane	7.380	129	229466	9.476	ppbv	99
49) Bromoform	9.480	173	187094	8.836	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	321752	7.314	ppbv	99
51) 2-Hexanone	7.425	43	260009	6.590	ppbv #	95
52) Tetrachloroethene	8.218	164	104294	7.474	ppbv	90
53) Toluene	6.923	91	355540	8.206	ppbv	99
54) 1,2-Dibromoethane	7.642	107	169774	8.654	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.917	131	170285	9.468	ppbv	96
57) Chlorobenzene	8.917	112	276428	8.944	ppbv	98
58) Ethyl Benzene	9.348	91	517937	8.797	ppbv	100
59) m/p-Xylene	9.545	91	847455m	17.868	ppbv	
60) o-Xylene	9.959	91	433569	9.078	ppbv	96
61) Styrene	9.866	104	192729	8.454	ppbv	96
62) Isopropylbenzene	10.535	105	625514	8.920	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.956	83	250238	8.085	ppbv	100
64) n-propylbenzene	10.985	120	154114	8.744	ppbv	97
65) tert-Butylbenzene	11.526	119	570548	8.853	ppbv	96
66) Benzyl Chloride	11.610	91	57090	8.061	ppbv	99
67) sec-Butylbenzene	11.765	105	797738	8.899	ppbv	99
69) p-Isopropyltoluene	11.921	119	684482	8.789	ppbv	97
70) n-Butylbenzene	12.277	91	720062	8.877	ppbv	97
71) 2-Chlorotoluene	10.898	91	493192	8.967	ppbv	97
72) 4-Ethyltoluene	11.121	105	521390	8.929	ppbv	97
73) 1,3,5-Trimethylbenzene	11.199	105	451158	8.752	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	502117	8.340	ppbv #	87
75) 1,3-Dichlorobenzene	11.604	146	264024	8.436	ppbv	97
76) 1,4-Dichlorobenzene	11.668	146	265655	8.445	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	260133	8.548	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	245910	8.002	ppbv	99
79) Naphthalene	13.510	128	570593	7.925	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	304139	7.412	ppbv	96
81) 1,2,4-Trichlorobenzene	13.439	180	250801	8.112	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042395.D
 Acq On : 21 Apr 2025 08:41
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 22 02:50:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 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	94	0.00
2 T	Dichlorodifluoromethane	1.767	1.812	-2.5	103	0.00
3	Chlorodifluoromethane	1.682	1.456	13.4	87	0.00
4	Chloromethane	0.699	0.661	5.4	96	0.00
5 T	Vinyl Chloride	0.761	0.665	12.6	98	0.00
6 T	Bromomethane	0.327	0.310	5.2	96	0.00
7	Chloroethane	0.275	0.270	1.8	101	0.00
8 T	Dichlorotetrafluoroethane	1.517	1.541	-1.6	101	0.00
9 T	Propene	0.766	0.569	25.7	78	0.00
10 T	Heptane	2.153	1.512	29.8	76	0.00
11 T	Trichlorofluoromethane	1.680	1.735	-3.3	104	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.374	1.307	4.9	96	0.00
13	Ethanol	0.122	0.038#	68.9#	102	0.00
14 T	Bromoethene	0.518	0.501	3.3	96	0.00
15 T	Acetone	1.637	1.420	13.3	106	0.00
16 T	1,3-Butadiene	0.783	0.686	12.4	99	0.00
17	tert-Butyl alcohol	2.029	1.870	7.8	98	0.00
18 T	1,1-Dichloroethene	0.642	0.593	7.6	96	0.00
19 T	Isopropyl Alcohol	0.909	0.830	8.7	95	0.00
20 T	Methylene Chloride	0.641	0.507	20.9	96	0.00
21 T	Allyl Chloride	1.130	1.024	9.4	99	0.00
22 T	trans-1,2-Dichloroethene	0.731	0.672	8.1	95	0.00
23 T	Vinyl Acetate	0.663	0.484	27.0	82	0.00
24 T	1,1-Dichloroethane	1.388	1.305	6.0	96	0.00
25 T	Ethyl Acetate	4.036	3.314	17.9	85	0.00
26 T	Hexane	1.633	1.272	22.1	84	0.00
27 T	Carbon Disulfide	1.749	1.689	3.4	96	0.00
28 T	Methyl tert-Butyl Ether	1.070	0.900	15.9	90	0.00
29 T	Chloroform	2.309	2.194	5.0	96	0.00
30 T	Cyclohexane	1.320	1.069	19.0	81	0.00
31 T	cis-1,2-Dichloroethene	1.553	1.406	9.5	91	0.00
32 T	1,1,1-Trichloroethane	2.599	2.413	7.2	100	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.791	0.658	16.8	87	0.00
35 T	Carbon Tetrachloride	0.905	0.870	3.9	103	0.00
36 T	Benzene	1.079	0.908	15.8	83	0.00
37 T	1,2-Dichloroethane	0.647	0.661	-2.2	102	0.00
38 T	Trichloroethene	0.471	0.368	21.9	85	0.00
39 T	1,2-Dichloropropane	0.402	0.322	19.9	80	0.00
40 T	1,4-Dioxane	0.221	0.161	27.1	81	0.00
41 T	Tetrahydrofuran	0.461	0.355	23.0	79	0.00
42 T	Bromodichloromethane	0.901	0.883	2.0	95	0.00
43	Methyl Methacrylate	0.486	0.373	23.3	79	0.00
44 T	2,2,4-Trimethylpentane	1.863	1.516	18.6	81	-0.01
45 T	t-1,3-Dichloropropene	0.497	0.427	14.1	85	0.00
46 T	cis-1,3-Dichloropropene	0.608	0.522	14.1	84	0.00
47 T	1,1,2-Trichloroethane	0.410	0.357	12.9	87	0.00
48 T	Dibromochloromethane	0.723	0.686	5.1	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042395.D
 Acq On : 21 Apr 2025 08:41
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 22 02:50:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 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	0.633	0.559	11.7	83	0.00
50 T	4-Methyl-2-Pentanone	1.314	0.961	26.9	81	0.00
51 T	2-Hexanone	1.179	0.777	34.1#	79	0.00
52 T	Tetrachloroethene	0.417	0.312	25.2	80	0.00
53 T	Toluene	1.294	1.062	17.9	81	0.00
54 T	1,2-Dibromoethane	0.586	0.507	13.5	86	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	88	0.00
56	1,1,1,2-Tetrachloroethane	0.605	0.573	5.3	92	0.00
57 T	Chlorobenzene	1.040	0.930	10.6	86	0.00
58 T	Ethyl Benzene	1.981	1.743	12.0	84	0.00
59 T	m/p-Xylene	1.596	1.426	10.7	86	0.00
60 T	o-Xylene	1.607	1.459	9.2	89	0.00
61 T	Styrene	0.767	0.649	15.4	79	0.00
62	Isopropylbenzene	2.360	2.105	10.8	85	0.00
63 T	1,1,2,2-Tetrachloroethane	1.042	0.842	19.2	85	0.00
64	n-propylbenzene	0.593	0.519	12.5	84	0.00
65	tert-Butylbenzene	2.169	1.920	11.5	88	0.00
66 T	Benzyl Chloride	0.238	0.192	19.3	69	0.00
67	sec-Butylbenzene	3.017	2.685	11.0	89	0.00
68 S	1-Bromo-4-Fluorobenzene	0.822	0.882	-7.3	93	0.00
69	p-Isopropyltoluene	2.621	2.303	12.1	88	0.00
70	n-Butylbenzene	2.730	2.423	11.2	90	0.00
71	2-Chlorotoluene	1.851	1.660	10.3	86	0.00
72 T	4-Ethyltoluene	1.965	1.755	10.7	87	0.00
73 T	1,3,5-Trimethylbenzene	1.735	1.518	12.5	88	0.00
74 T	1,2,4-Trimethylbenzene	2.026	1.690	16.6	89	0.00
75 T	1,3-Dichlorobenzene	1.053	0.888	15.7	82	0.00
76 T	1,4-Dichlorobenzene	1.059	0.894	15.6	83	0.00
77 T	1,2-Dichlorobenzene	1.024	0.875	14.6	85	0.00
78 T	Hexachloro-1,3-Butadiene	1.034	0.828	19.9	84	0.00
79 T	Naphthalene	2.423	1.920	20.8	84	0.00
80 T	Naphthalene,2-methyl-	1.381	1.023	25.9	81	0.00
81 T	1,2,4-Trichlorobenzene	1.040	0.844	18.8	82	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042396.D
 Acq On : 21 Apr 2025 09:28
 Operator : SY/MD
 Sample : VL0421ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0421ABL01

Quant Time: Apr 22 02:50:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	120411	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	341628	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	293743	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	252683	10.468	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.700%

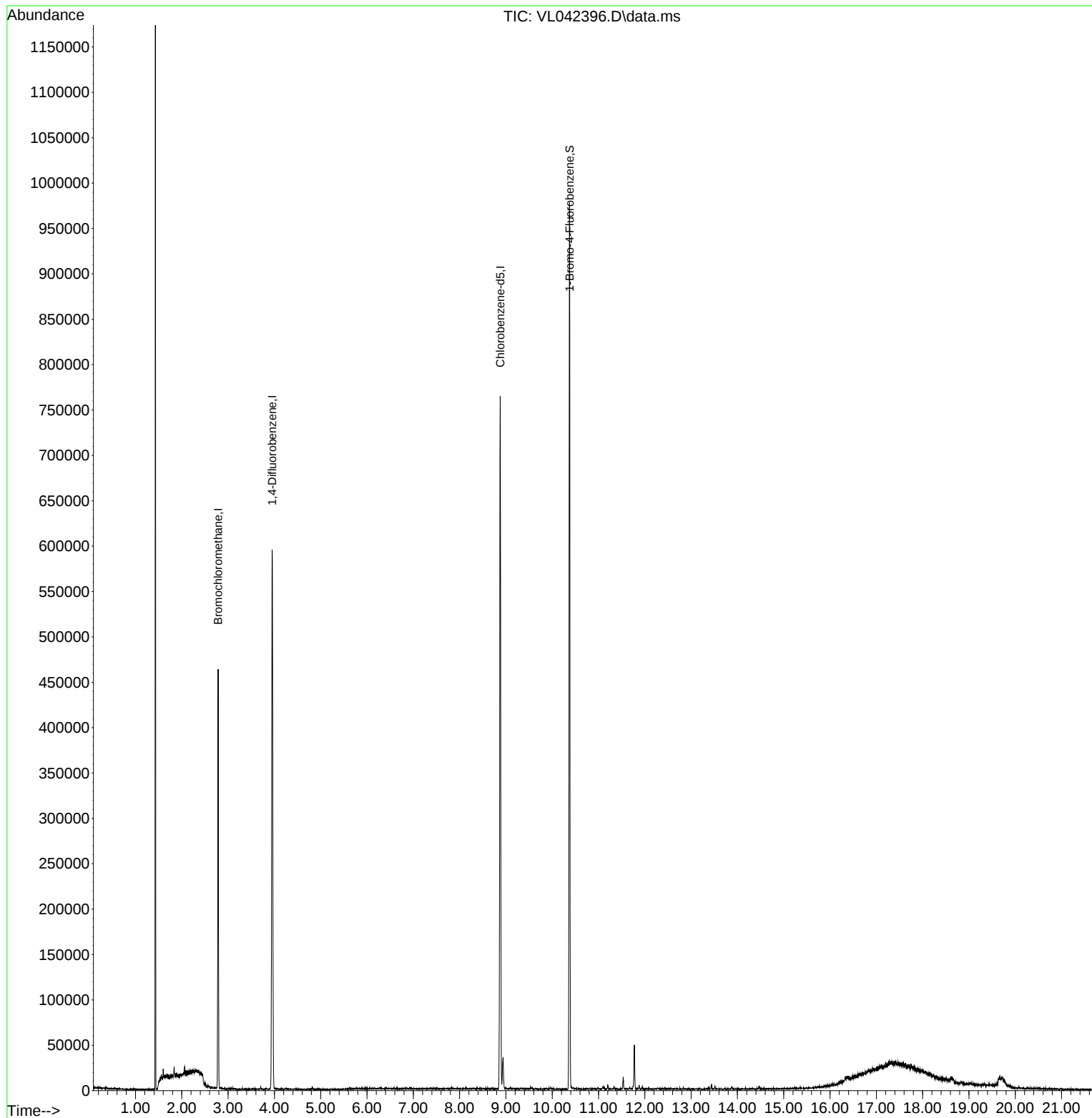
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
Data File : VL042396.D
Acq On : 21 Apr 2025 09:28
Operator : SY/MD
Sample : VL0421ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0421ABL01

Quant Time: Apr 22 02:50:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042397.D
 Acq On : 21 Apr 2025 10:14
 Operator : SY/MD
 Sample : VL0421ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0421ABS01

Quant Time: Apr 22 02:51:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/22/2025
 Supervised By : Mahesh Dadoda 04/22/2025

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

Internal Standards						
1) Bromochloromethane	2.781	49	118401	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	337921	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	293537	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	260048	10.781	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.800%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.496	85	212503	10.158	ppbv	98
3) Chlorodifluoromethane	1.473	51	175535	8.812	ppbv	95
4) Chloromethane	1.531	50	79791	9.638	ppbv	94
5) Vinyl Chloride	1.577	62	77905	8.645	ppbv	97
6) Bromomethane	1.664	94	35087	9.064	ppbv	87
7) Chloroethane	1.700	64	30814	9.455	ppbv	96
8) Dichlorotetrafluoroethane	1.551	85	182258	10.147	ppbv	94
9) Propene	1.480	41	69080	7.615	ppbv	97
10) Heptane	4.969	43	187072	7.340	ppbv	99
11) Trichlorofluoromethane	1.875	101	205641	10.337	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.133	101	156363	9.613	ppbv	98
13) Ethanol	1.716	45	4602	3.192	ppbv	92
14) Bromoethene	1.777	108	58938	9.613	ppbv	98
15) Acetone	1.832	43	168065	8.671	ppbv	98
16) 1,3-Butadiene	1.606	39	83577	9.015	ppbv	92
17) tert-Butyl alcohol	2.036	59	216440	9.011	ppbv	100
18) 1,1-Dichloroethene	2.030	96	71097	9.356	ppbv	95
19) Isopropyl Alcohol	1.881	45	96437	8.956	ppbv	93
20) Methylene Chloride	2.056	84	60417	7.959	ppbv	89
21) Allyl Chloride	2.091	41	122313	9.140	ppbv	97
22) trans-1,2-Dichloroethene	2.334	96	78976	9.128	ppbv	98
23) Vinyl Acetate	2.457	43	54610	6.961	ppbv #	96
24) 1,1-Dichloroethane	2.402	63	157093	9.559	ppbv	99
25) Ethyl Acetate	2.829	43	393203	8.228	ppbv	99
26) Hexane	2.820	57	151103	7.813	ppbv	99
27) Carbon Disulfide	2.146	76	194719	9.404	ppbv	98
28) Methyl tert-Butyl Ether	2.434	73	108007	8.524	ppbv	93
29) Chloroform	2.842	83	262639	9.608	ppbv	98
30) Cyclohexane	3.846	84	133153	8.517	ppbv	98
31) cis-1,2-Dichloroethene	2.713	61	166447	9.052	ppbv	95
32) 1,1,1-Trichloroethane	3.360	97	285156	9.266	ppbv	98
34) 2-Butanone	2.554	43	220966	8.268	ppbv	98
35) Carbon Tetrachloride	3.755	117	291941	9.546	ppbv	95
36) Benzene	3.648	78	312290	8.568	ppbv	97
37) 1,2-Dichloroethane	3.211	62	225346	10.301	ppbv #	96
38) Trichloroethene	4.542	130	123977	7.783	ppbv	98
39) 1,2-Dichloropropane	4.305	63	112058	8.250	ppbv #	90
40) 1,4-Dioxane	4.571	88	55511	7.437	ppbv #	93
41) Tetrahydrofuran	3.046	42	121497	7.797	ppbv	99
42) Bromodichloromethane	4.480	83	294127	9.661	ppbv	98
43) Methyl Methacrylate	4.872	69	125779	7.657	ppbv	93
44) 2,2,4-Trimethylpentane	4.629	57	508984	8.085	ppbv	95
45) t-1,3-Dichloropropene	6.399	75	142114	8.469	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042397.D
 Acq On : 21 Apr 2025 10:14
 Operator : SY/MD
 Sample : VL0421ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0421ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:51:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	171445	8.348	ppbv #	84
47) 1,1,2-Trichloroethane	6.574	97	124092	8.967	ppbv	95
48) Dibromochloromethane	7.377	129	225553	9.226	ppbv	99
49) Bromoform	9.474	173	188764	8.830	ppbv	100
50) 4-Methyl-2-Pentanone	5.739	43	318982	7.182	ppbv	99
51) 2-Hexanone	7.429	43	266951	6.702	ppbv #	95
52) Tetrachloroethene	8.222	164	104899	7.446	ppbv	97
53) Toluene	6.920	91	361443	8.264	ppbv	99
54) 1,2-Dibromoethane	7.645	107	175799	8.877	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.917	131	169656	9.550	ppbv	97
57) Chlorobenzene	8.914	112	270733	8.868	ppbv	98
58) Ethyl Benzene	9.348	91	524070	9.011	ppbv	100
59) m/p-Xylene	9.545	91	852193m	18.189	ppbv	
60) o-Xylene	9.956	91	433062	9.179	ppbv	97
61) Styrene	9.866	104	194756	8.648	ppbv	98
62) Isopropylbenzene	10.533	105	641535	9.262	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.956	83	257428	8.420	ppbv	99
64) n-propylbenzene	10.982	120	155343	8.922	ppbv	96
65) tert-Butylbenzene	11.526	119	573929	9.015	ppbv	96
66) Benzyl Chloride	11.610	91	51025	7.294	ppbv	97
67) sec-Butylbenzene	11.762	105	802355	9.061	ppbv	99
69) p-Isopropyltoluene	11.921	119	685449	8.910	ppbv	97
70) n-Butylbenzene	12.277	91	723138	9.025	ppbv	98
71) 2-Chlorotoluene	10.895	91	500409	9.211	ppbv	97
72) 4-Ethyltoluene	11.122	105	519236	9.002	ppbv	98
73) 1,3,5-Trimethylbenzene	11.199	105	456404	8.963	ppbv	96
74) 1,2,4-Trimethylbenzene	11.533	105	509154	8.561	ppbv	91
75) 1,3-Dichlorobenzene	11.604	146	267483	8.652	ppbv	98
76) 1,4-Dichlorobenzene	11.669	146	267283	8.602	ppbv	98
77) 1,2-Dichlorobenzene	11.944	146	261316	8.693	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	259140	8.537	ppbv	99
79) Naphthalene	13.510	128	584987	8.225	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	300148	7.405	ppbv	96
81) 1,2,4-Trichlorobenzene	13.436	180	258107	8.452	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042399.D
 Acq On : 21 Apr 2025 11:36
 Operator : SY/MD
 Sample : QC041625 CAN 10329
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC041625 CAN 10329

Quant Time: Apr 22 02:52:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	116817	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	332871	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	284301	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	248070	10.618	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.200%

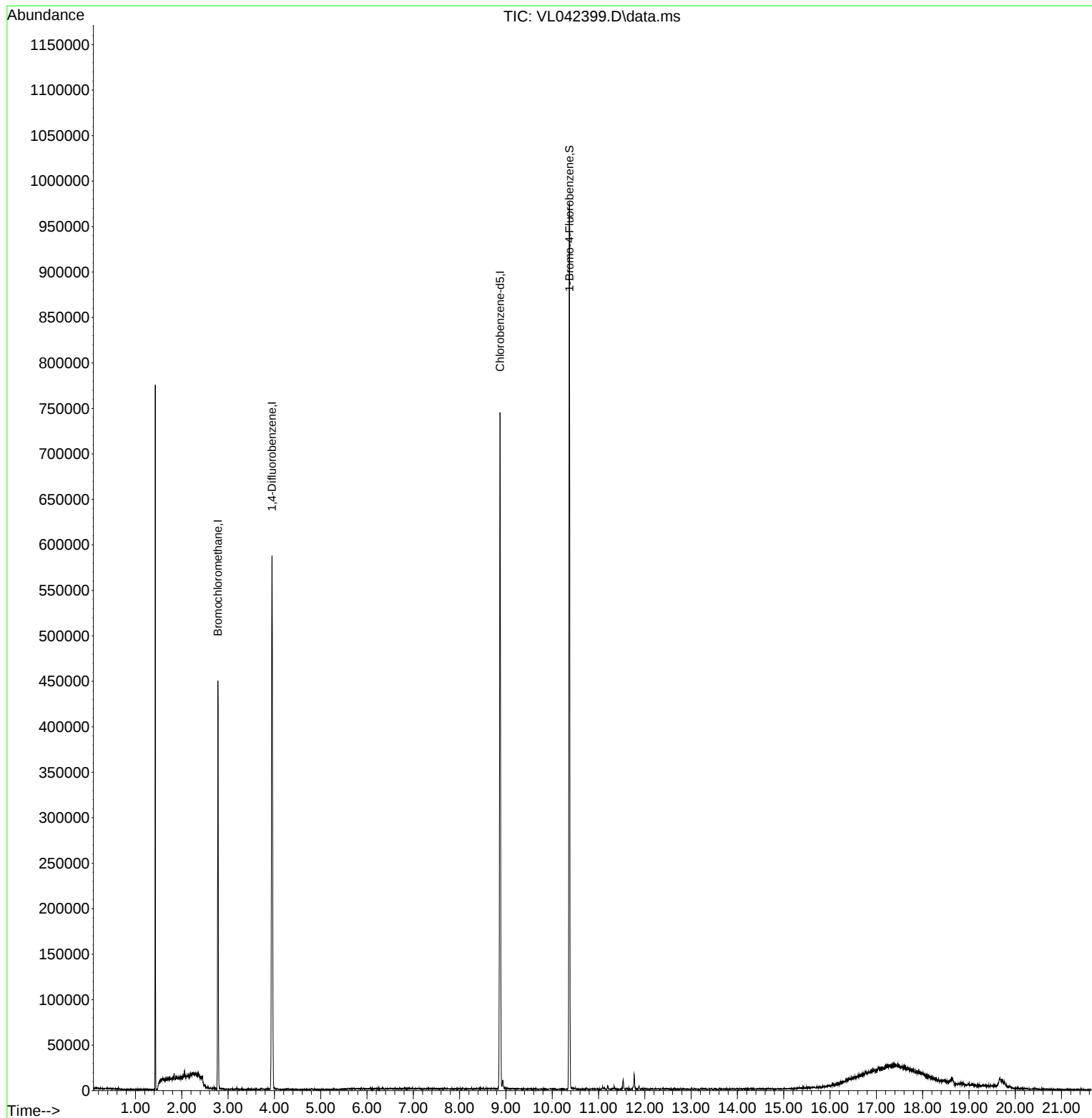
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
Data File : VL042399.D
Acq On : 21 Apr 2025 11:36
Operator : SY/MD
Sample : QC041625 CAN 10329
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC041625 CAN 10329

Quant Time: Apr 22 02:52:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration



Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042171.D	27 Mar 2025 07:44	SY/MD	Ok
2	VSTDICCC010	VL042172.D	27 Mar 2025 08:26	SY/MD	Ok,M
3	VSTDICCC002	VL042173.D	27 Mar 2025 08:59	SY/MD	Ok,M
4	VSTDICCC001	VL042174.D	27 Mar 2025 09:30	SY/MD	Ok,M
5	VSTDICCC0.5	VL042175.D	27 Mar 2025 10:01	SY/MD	Ok,M
6	VSTDICCC0.1	VL042176.D	27 Mar 2025 10:32	SY/MD	Ok,M
7	VSTDICCC0.03	VL042177.D	27 Mar 2025 11:03	SY/MD	Ok,M
8	VSTDICCC015	VL042178.D	27 Mar 2025 11:36	SY/MD	Ok,M
9	VSTDICV010	VL042179.D	27 Mar 2025 12:23	SY/MD	Ok,M
10	VL0327ABL01	VL042180.D	27 Mar 2025 13:50	SY/MD	Ok
11	VL0327ABS01	VL042181.D	27 Mar 2025 14:39	SY/MD	Ok,M
12	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41	SY/MD	Ok
13	Q1649-01	VL042183.D	27 Mar 2025 17:13	SY/MD	Not Ok
14	Q1649-02	VL042184.D	27 Mar 2025 17:45	SY/MD	Not Ok
15	Q1669-01	VL042185.D	27 Mar 2025 18:22	SY/MD	Dilution
16	Q1669-02	VL042186.D	27 Mar 2025 18:59	SY/MD	Ok,M
17	Q1669-03	VL042187.D	27 Mar 2025 19:36	SY/MD	Ok,M
18	Q1669-04	VL042188.D	27 Mar 2025 20:12	SY/MD	Ok,M
19	Q1669-09	VL042189.D	27 Mar 2025 20:48	SY/MD	Ok,M
20	Q1669-09DUP	VL042190.D	27 Mar 2025 21:24	SY/MD	Ok,M
21	Q1669-05	VL042191.D	27 Mar 2025 21:57	SY/MD	Not Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1669-07DL	VL042192.D	27 Mar 2025 22:29	SY/MD	Ok,M
23	Q1669-08	VL042193.D	27 Mar 2025 23:01	SY/MD	Not Ok
24	VIBLK	VL042194.D	27 Mar 2025 23:34	SY/MD	Ok
25	Q1669-01DL	VL042195.D	28 Mar 2025 00:06	SY/MD	Ok,M
26	Q1669-01DUP	VL042196.D	28 Mar 2025 00:44	SY/MD	Ok,M
27	Q1669-05	VL042197.D	28 Mar 2025 01:20	SY/MD	Ok,M
28	Q1669-07	VL042198.D	28 Mar 2025 01:57	SY/MD	Dilution
29	Q1669-08	VL042199.D	28 Mar 2025 02:33	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL041525

Review By	Semsettin Yesilyurt	Review On	4/16/2025 2:19:24 PM		
Supervise By	Maresh Dadoda	Supervise On	4/16/2025 3:47:46 PM		
SubDirectory	VL041525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042325.D	15 Apr 2025 07:45	SY/MD	Ok
2	VSTDCCC010	VL042326.D	15 Apr 2025 11:30	SY/MD	Ok,M
3	VL0415ABL01	VL042327.D	15 Apr 2025 12:12	SY/MD	Ok
4	VL0415ABS01	VL042328.D	15 Apr 2025 12:54	SY/MD	Ok,M
5	QC041425 CAN 10401	VL042329.D	15 Apr 2025 13:26	SY/MD	Not Ok
6	QC041425 CAN 10401	VL042330.D	15 Apr 2025 13:57	SY/MD	Ok
7	Q1665-18DL	VL042331.D	15 Apr 2025 14:29	SY/MD	Ok
8	Q1665-10DL2	VL042332.D	15 Apr 2025 15:01	SY/MD	Ok,M
9	Q1802-02	VL042333.D	15 Apr 2025 15:35	SY/MD	Ok,M
10	Q1802-02DUP	VL042334.D	15 Apr 2025 16:08	SY/MD	Ok,M
11	Q1802-03	VL042335.D	15 Apr 2025 16:42	SY/MD	Ok,M
12	Q1802-01	VL042336.D	15 Apr 2025 17:14	SY/MD	Dilution
13	Q1802-01DL	VL042337.D	15 Apr 2025 17:46	SY/MD	Not Ok
14	Q1802-01DL	VL042338.D	15 Apr 2025 18:21	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM		
Supervise By	Maresh Dadoda	Supervise On	4/18/2025 10:46:12 PM		
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2590			
Initial Calibration Stds		AP2598,AP2599,AP2600			
CCC		AP2598			
Internal Standard/PEM		AP2590			
ICV/I.BLK		AP2601			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042348.D	17 Apr 2025 07:50	SY/MD	Ok
2	VSTDICCC010	VL042349.D	17 Apr 2025 09:44	SY/MD	Ok,M
3	VSTDICCC002	VL042350.D	17 Apr 2025 10:17	SY/MD	Ok,M
4	VSTDICCC001	VL042351.D	17 Apr 2025 10:48	SY/MD	Ok,M
5	VSTDICCC0.5	VL042352.D	17 Apr 2025 11:19	SY/MD	Ok,M
6	VSTDICCC0.1	VL042353.D	17 Apr 2025 11:50	SY/MD	Ok,M
7	VSTDICCC0.03	VL042354.D	17 Apr 2025 12:22	SY/MD	Ok,M
8	VSTDICCC015	VL042355.D	17 Apr 2025 12:54	SY/MD	Ok,M
9	VSTDICV010	VL042356.D	17 Apr 2025 13:43	SY/MD	Ok,M
10	VL0417ABL01	VL042357.D	17 Apr 2025 14:23	SY/MD	Ok
11	VL0417ABS01	VL042358.D	17 Apr 2025 15:39	SY/MD	Ok,M
12	Q1665-15	VL042359.D	17 Apr 2025 16:12	SY/MD	Dilution
13	Q1665-15DL	VL042360.D	17 Apr 2025 16:44	SY/MD	Ok,M
14	Q1668-01	VL042361.D	17 Apr 2025 17:17	SY/MD	Dilution
15	Q1668-01DUP	VL042362.D	17 Apr 2025 17:51	SY/MD	Ok,M
16	Q1668-03	VL042363.D	17 Apr 2025 18:24	SY/MD	Dilution
17	Q1668-04	VL042364.D	17 Apr 2025 18:58	SY/MD	Ok,M
18	Q1668-02	VL042365.D	17 Apr 2025 19:31	SY/MD	Ok,M
19	Q1726-01	VL042366.D	17 Apr 2025 20:05	SY/MD	Dilution
20	Q1726-02	VL042367.D	17 Apr 2025 20:38	SY/MD	Dilution
21	Q1726-03	VL042368.D	17 Apr 2025 21:12	SY/MD	Dilution

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM		
Supervise By	Maresh Dadoda	Supervise On	4/18/2025 10:46:12 PM		
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2590				
Initial Calibration Stds	AP2598,AP2599,AP2600				
CCC	AP2598				
Internal Standard/PEM	AP2590				
ICV/I.BLK	AP2601				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1726-04	VL042369.D	17 Apr 2025 21:45	SY/MD	Dilution
23	Q1726-05	VL042370.D	17 Apr 2025 22:19	SY/MD	Dilution
24	Q1726-06	VL042371.D	17 Apr 2025 22:52	SY/MD	Dilution
25	Q1726-07	VL042372.D	17 Apr 2025 23:26	SY/MD	Dilution
26	Q1726-07DL	VL042373.D	17 Apr 2025 23:57	SY/MD	Dilution
27	Q1668-01DL	VL042374.D	18 Apr 2025 00:28	SY/MD	Ok,M
28	Q1668-03DL	VL042375.D	18 Apr 2025 00:59	SY/MD	Ok,M
29	Q1726-01DL	VL042376.D	18 Apr 2025 01:30	SY/MD	Dilution
30	Q1726-02DL	VL042377.D	18 Apr 2025 02:01	SY/MD	Dilution
31	Q1726-03DL	VL042378.D	18 Apr 2025 02:32	SY/MD	Dilution
32	Q1726-04DL	VL042379.D	18 Apr 2025 03:03	SY/MD	Dilution
33	Q1726-05DL	VL042380.D	18 Apr 2025 03:34	SY/MD	Dilution
34	Q1726-06DL	VL042381.D	18 Apr 2025 04:05	SY/MD	Dilution

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL042125

Review By	Semsettin Yesilyurt	Review On	4/22/2025 9:39:52 AM		
Supervise By	Maresh Dadoda	Supervise On	4/22/2025 2:00:33 PM		
SubDirectory	VL042125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2602			
Initial Calibration Stds		AP2598,AP2599,AP2600			
CCC		AP2598			
Internal Standard/PEM		AP2602			
ICV/I.BLK		AP2601			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042394.D	21 Apr 2025 07:58	SY/MD	Ok
2	VSTDCCC010	VL042395.D	21 Apr 2025 08:41	SY/MD	Ok,M
3	VL0421ABL01	VL042396.D	21 Apr 2025 09:28	SY/MD	Ok
4	VL0421ABS01	VL042397.D	21 Apr 2025 10:14	SY/MD	Ok,M
5	QC041625 CAN 10329	VL042398.D	21 Apr 2025 11:04	SY/MD	Not Ok
6	QC041625 CAN 10329	VL042399.D	21 Apr 2025 11:36	SY/MD	Ok
7	Q1801-01	VL042400.D	21 Apr 2025 12:07	SY/MD	Ok,M
8	Q1801-02	VL042401.D	21 Apr 2025 12:51	SY/MD	Ok,M
9	Q1844-02	VL042402.D	21 Apr 2025 13:38	SY/MD	Dilution
10	Q1844-02DUP	VL042403.D	21 Apr 2025 14:13	SY/MD	Ok,M
11	Q1844-02DL	VL042404.D	21 Apr 2025 14:44	SY/MD	Ok,M
12	Q1843-02	VL042405.D	21 Apr 2025 15:18	SY/MD	Ok,M
13	Q1843-02DL	VL042406.D	21 Apr 2025 15:49	SY/MD	Not Ok
14	Q1844-01	VL042407.D	21 Apr 2025 16:20	SY/MD	Dilution
15	Q1844-01DL	VL042408.D	21 Apr 2025 16:51	SY/MD	Dilution
16	Q1843-01	VL042409.D	21 Apr 2025 17:23	SY/MD	Ok,M
17	Q1843-01DL	VL042410.D	21 Apr 2025 17:54	SY/MD	Not Ok
18	Q1843-01DUP	VL042411.D	21 Apr 2025 19:16	SY/MD	Ok,M
19	QC041725 CA 27806	VL042412.D	21 Apr 2025 19:47	SY/MD	Not Ok
20	QC041725 CA 27806	VL042413.D	21 Apr 2025 20:18	SY/MD	Ok
21	Q1844-01DL2	VL042414.D	22 Apr 2025 07:47	SY/MD	Ok,M

M : Manual Integration