

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042253.D
 Acq On : 08 Apr 2025 08:39
 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 04/09/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 09 01:50:44 2025

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

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

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	2.800	49	192748	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	496271	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	446954	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.393	95	366722	9.991	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	273431	9.608	ppbv	99
3) Chlorodifluoromethane	1.483	51	290289	9.985	ppbv	99
4) Chloromethane	1.538	50	113157	9.729	ppbv	98
5) Vinyl Chloride	1.586	62	106450	8.637	ppbv	94
6) Bromomethane	1.674	94	47897	9.087	ppbv	99
7) Chloroethane	1.712	64	43021	9.215	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	231550	9.554	ppbv	93
9) Propene	1.489	41	107995	8.104	ppbv	98
10) Heptane	5.011	43	334651	9.441	ppbv	99
11) Trichlorofluoromethane	1.884	101	263560	9.518	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	204093	8.967	ppbv	96
13) Ethanol	1.729	45	5903	4.686	ppbv	92
14) Bromoethene	1.790	108	73578	8.438	ppbv	99
15) Acetone	1.842	43	233895	8.677	ppbv	96
16) 1,3-Butadiene	1.615	39	113699	8.637	ppbv	97
17) tert-Butyl alcohol	2.049	59	264061	7.865	ppbv	98
18) 1,1-Dichloroethene	2.043	96	89526	8.414	ppbv	96
19) Isopropyl Alcohol	1.894	45	131605	8.653	ppbv	98
20) Methylene Chloride	2.072	84	78560	7.825	ppbv	96
21) Allyl Chloride	2.107	41	163305	8.590	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	106297	8.643	ppbv	98
23) Vinyl Acetate	2.476	43	96990	8.313	ppbv #	97
24) 1,1-Dichloroethane	2.421	63	214800	9.422	ppbv	98
25) Ethyl Acetate	2.852	43	678925	9.704	ppbv	99
26) Hexane	2.839	57	257513	9.529	ppbv	97
27) Carbon Disulfide	2.159	76	253909	8.762	ppbv	98
28) Methyl tert-Butyl Ether	2.454	73	135921	8.078	ppbv	97
29) Chloroform	2.861	83	407591	10.306	ppbv	98
30) Cyclohexane	3.878	84	207216	8.831	ppbv	98
31) cis-1,2-Dichloroethene	2.735	61	249595	9.098	ppbv	95
32) 1,1,1-Trichloroethane	3.386	97	403665	8.915	ppbv	97
34) 2-Butanone	2.570	43	375791	10.443	ppbv	99
35) Carbon Tetrachloride	3.784	117	423863	10.934	ppbv	99
36) Benzene	3.677	78	514967	10.467	ppbv	98
37) 1,2-Dichloroethane	3.237	62	313194	11.119	ppbv	99
38) Trichloroethene	4.574	130	205933	10.032	ppbv	96
39) 1,2-Dichloropropane	4.341	63	188150	10.501	ppbv	93
40) 1,4-Dioxane	4.613	88	89479	9.409	ppbv #	96
41) Tetrahydrofuran	3.072	42	208736	10.073	ppbv	96
42) Bromodichloromethane	4.515	83	436058	11.230	ppbv	98
43) Methyl Methacrylate	4.910	69	193449	9.288	ppbv	99
44) 2,2,4-Trimethylpentane	4.664	57	888509	10.687	ppbv	97
45) t-1,3-Dichloropropene	6.451	75	184866	8.273	ppbv	93

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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	5.635	75	243227	8.880	ppbv	97
47) 1,1,2-Trichloroethane	6.613	97	208553	11.011	ppbv	99
48) Dibromochloromethane	7.415	129	346117	10.783	ppbv	99
49) Bromoform	9.503	173	299582	10.395	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	542853	9.519	ppbv	96
51) 2-Hexanone	7.464	43	433929	9.266	ppbv #	96
52) Tetrachloroethene	8.247	164	172915	8.862	ppbv	94
53) Toluene	6.962	91	574664	9.853	ppbv	98
54) 1,2-Dibromoethane	7.681	107	281436	10.659	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.946	131	286554	11.647	ppbv	99
57) Chlorobenzene	8.943	112	483780	11.411	ppbv	97
58) Ethyl Benzene	9.377	91	831947	10.479	ppbv	99
59) m/p-Xylene	9.571	91	1411551m	22.266	ppbv	
60) o-Xylene	9.982	91	696371	10.958	ppbv	97
61) Styrene	9.891	104	313307	9.965	ppbv	99
62) Isopropylbenzene	10.558	105	1044218	10.988	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	460968	11.938	ppbv	99
64) n-propylbenzene	11.005	120	279848	11.439	ppbv	98
65) tert-Butylbenzene	11.549	119	945232	10.755	ppbv	100
66) Benzyl Chloride	11.633	91	65203	6.992	ppbv	98
67) sec-Butylbenzene	11.785	105	1343060	10.994	ppbv	100
69) p-Isopropyltoluene	11.940	119	1144759	10.882	ppbv	100
70) n-Butylbenzene	12.296	91	1194481	11.103	ppbv	99
71) 2-Chlorotoluene	10.918	91	806572	10.935	ppbv	99
72) 4-Ethyltoluene	11.141	105	885452	11.190	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	765708	11.080	ppbv	99
74) 1,2,4-Trimethylbenzene	11.555	105	848667	10.660	ppbv	99
75) 1,3-Dichlorobenzene	11.626	146	505824	11.584	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	505562	11.634	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	503274	11.837	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	399147	9.223	ppbv	99
79) Naphthalene	13.529	128	967317	11.108	ppbv	99
80) Naphthalene,2-methyl-	14.475	142	457943	10.723	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	425466	10.592	ppbv	99

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

