

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111125\
 Data File : VL043180.D
 Acq On : 11 Nov 2025 08:15
 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 11/13/2025
 Supervised By :Mahesh Dadoda 11/13/2025

Quant Time: Nov 12 00:12:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	132532	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	370924	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	319069	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 254836 10.275 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	183723	9.751	ppbv	98
3) Chlorodifluoromethane	1.483	51	202454	9.931	ppbv	100
4) Chloromethane	1.541	50	62541	8.379	ppbv	98
5) Vinyl Chloride	1.586	62	61391	8.386	ppbv	97
6) Bromomethane	1.677	94	38477	9.584	ppbv	100
7) Chloroethane	1.712	64	25756	8.605	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	147205	9.667	ppbv	91
9) Propene	1.489	41	79706	8.816	ppbv	99
10) Heptane	5.007	43	245150	9.418	ppbv	98
11) Trichlorofluoromethane	1.887	101	198142	10.751	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.149	101	152666	10.289	ppbv	97
13) Ethanol	1.729	45	22752	6.803	ppbv	97
14) Bromoethene	1.790	108	54128	9.820	ppbv	97
15) Acetone	1.842	43	152492	8.537	ppbv	100
16) 1,3-Butadiene	1.615	39	68719	8.072	ppbv	97
17) tert-Butyl alcohol	2.049	59	210931	8.602	ppbv	96
18) 1,1-Dichloroethene	2.046	96	65440	10.117	ppbv	91
19) Isopropyl Alcohol	1.894	45	89581	8.052	ppbv	91
20) Methylene Chloride	2.072	84	58402	8.271	ppbv	96
21) Allyl Chloride	2.107	41	114525	8.700	ppbv	95
22) trans-1,2-Dichloroethene	2.353	96	77870	10.071	ppbv	89
23) Vinyl Acetate	2.473	43	309477	11.827	ppbv #	97
24) 1,1-Dichloroethane	2.421	63	143474	9.604	ppbv	99
25) Ethyl Acetate	2.845	43	440087	9.935	ppbv	99
26) Hexane	2.842	57	199063	9.752	ppbv	99
27) Carbon Disulfide	2.162	76	186799	9.988	ppbv	99
28) Methyl tert-Butyl Ether	2.454	73	90840	9.782	ppbv	93
29) Chloroform	2.861	83	301692	10.201	ppbv	100
30) Cyclohexane	3.878	84	160214	8.993	ppbv	99
31) cis-1,2-Dichloroethene	2.735	61	194237	9.965	ppbv	99
32) 1,1,1-Trichloroethane	3.386	97	296240	9.618	ppbv	100
34) 2-Butanone	2.567	43	296563	11.894	ppbv	98
35) Carbon Tetrachloride	3.781	117	301277	11.297	ppbv	96
36) Benzene	3.677	78	383103	10.966	ppbv	98
37) 1,2-Dichloroethane	3.234	62	232445	11.550	ppbv	99
38) Trichloroethene	4.574	130	144831	9.926	ppbv	97
39) 1,2-Dichloropropane	4.337	63	140510	11.001	ppbv	96
40) 1,4-Dioxane	4.603	88	57730	10.101	ppbv #	96
41) Tetrahydrofuran	3.065	42	150298	10.778	ppbv	97
42) Bromodichloromethane	4.512	83	318665	11.440	ppbv	97
43) Methyl Methacrylate	4.904	69	182621	10.292	ppbv	98
44) 2,2,4-Trimethylpentane	4.664	57	655191	11.116	ppbv	99
45) t-1,3-Dichloropropene	6.441	75	179639	10.088	ppbv	99

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QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	215528	10.132	ppbv	98
47) 1,1,2-Trichloroethane	6.606	97	152159	11.032	ppbv	97
48) Dibromochloromethane	7.409	129	251658	10.913	ppbv	98
49) Bromoform	9.500	173	214367	11.436	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	366191m	10.642	ppbv	
51) 2-Hexanone	7.454	43	278490	10.790	ppbv #	97
52) Tetrachloroethene	8.244	164	129615	10.288	ppbv	95
53) Toluene	6.956	91	421396	10.163	ppbv	98
54) 1,2-Dibromoethane	7.671	107	226943	10.505	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.940	131	231293	11.499	ppbv	97
57) Chlorobenzene	8.940	112	326657	10.944	ppbv	99
58) Ethyl Benzene	9.370	91	587375	10.726	ppbv	98
59) m/p-Xylene	9.564	91	960668m	21.995	ppbv	
60) o-Xylene	9.979	91	472838	10.961	ppbv	99
61) Styrene	9.885	104	194324	9.979	ppbv	99
62) Isopropylbenzene	10.555	105	856402	10.987	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	320460	11.095	ppbv	99
64) n-propylbenzene	11.002	120	223050	10.808	ppbv	94
65) tert-Butylbenzene	11.545	119	725442	10.539	ppbv	99
66) Benzyl Chloride	11.626	91	67343	8.790	ppbv	100
67) sec-Butylbenzene	11.782	105	1058230	10.832	ppbv	99
69) p-Isopropyltoluene	11.940	119	878084	10.578	ppbv	99
70) n-Butylbenzene	12.293	91	892212	10.907	ppbv	99
71) 2-Chlorotoluene	10.914	91	645588	10.859	ppbv	99
72) 4-Ethyltoluene	11.137	105	583156	10.994	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	483034	11.042	ppbv	95
74) 1,2,4-Trimethylbenzene	11.552	105	527359	10.773	ppbv #	86
75) 1,3-Dichlorobenzene	11.620	146	323378	11.390	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	323615	11.304	ppbv	98
77) 1,2-Dichlorobenzene	11.960	146	308369	11.227	ppbv	97
78) Hexachloro-1,3-Butadiene	13.892	225	215523	10.134	ppbv	99
79) Naphthalene	13.526	128	523078	10.223	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	137671	10.328	ppbv	97
81) 1,2,4-Trichlorobenzene	13.452	180	229828	10.822	ppbv	100

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

