

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042502.D
 Acq On : 06 May 2025 18:07
 Operator : SY/MD
 Sample : MDL2 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL2 0.40

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2025
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:44:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	69752	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	178512	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	146916	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 140214 10.294 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	5685	0.493	ppbv	97
3) Chlorodifluoromethane	1.479	51	6200	0.508	ppbv	98
4) Chloromethane	1.538	50	2651	0.549	ppbv #	79
5) Vinyl Chloride	1.586	62	2443	0.503	ppbv	93
6) Bromomethane	1.674	94	1474	0.642	ppbv	93
7) Chloroethane	1.709	64	824	0.459	ppbv #	48
8) Dichlorotetrafluoroethane	1.557	85	5055	0.531	ppbv	99
9) Propene	1.489	41	1391	0.348	ppbv #	80
10) Heptane	4.994	43	3734m	0.361	ppbv	
11) Trichlorofluoromethane	1.881	101	5836	0.548	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	4694	0.552	ppbv	97
13) Ethanol	1.729	45	616m	0.760	ppbv	
14) Bromoethene	1.787	108	1727	0.550	ppbv #	88
15) Acetone	1.842	43	8139	0.639	ppbv #	89
16) 1,3-Butadiene	1.612	39	3162	0.563	ppbv	88
17) tert-Butyl alcohol	2.052	59	4846	0.432	ppbv #	82
18) 1,1-Dichloroethene	2.039	96	1985	0.500	ppbv	92
19) Isopropyl Alcohol	1.894	45	4014	0.570	ppbv #	86
20) Methylene Chloride	2.072	84	2565	0.670	ppbv #	76
21) Allyl Chloride	2.101	41	3746	0.457	ppbv #	78
22) trans-1,2-Dichloroethene	2.350	96	2466	0.532	ppbv	82
23) Vinyl Acetate	2.466	43	5100m	0.420	ppbv	
24) 1,1-Dichloroethane	2.415	63	4763	0.503	ppbv #	92
25) Ethyl Acetate	2.855	43	7674m	0.376	ppbv	
26) Hexane	2.835	57	2762	0.311	ppbv #	73
27) Carbon Disulfide	2.156	76	4576	0.441	ppbv #	35
28) Methyl tert-Butyl Ether	2.447	73	2220	0.416	ppbv #	74
29) Chloroform	2.855	83	8064	0.484	ppbv	90
30) Cyclohexane	3.865	84	2225m	0.300	ppbv	
31) cis-1,2-Dichloroethene	2.732	61	3862	0.373	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	7649m	0.424	ppbv	
34) 2-Butanone	2.570	43	5435	0.421	ppbv	96
35) Carbon Tetrachloride	3.771	117	8190	0.505	ppbv #	55
36) Benzene	3.671	78	6695m	0.397	ppbv	
37) 1,2-Dichloroethane	3.230	62	5877	0.453	ppbv	100
38) Trichloroethene	4.561	130	3444	0.536	ppbv #	79
39) 1,2-Dichloropropane	4.328	63	3425m	0.543	ppbv	
40) 1,4-Dioxane	4.625	88	1049m	0.355	ppbv	
41) Tetrahydrofuran	3.075	42	2014m	0.328	ppbv	
42) Bromodichloromethane	4.509	83	7218	0.455	ppbv #	86
43) Methyl Methacrylate	4.900	69	2325m	0.370	ppbv	
44) 2,2,4-Trimethylpentane	4.658	57	9990m	0.366	ppbv	
45) t-1,3-Dichloropropene	6.438	75	2465m	0.299	ppbv	

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QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	3119m	0.318	ppbv	
47) 1,1,2-Trichloroethane	6.600	97	3588m	0.519	ppbv	
48) Dibromochloromethane	7.415	129	5306m	0.454	ppbv	
49) Bromoform	9.493	173	3723	0.380	ppbv	98
50) 4-Methyl-2-Pentanone	5.787	43	5800m	0.355	ppbv	
51) 2-Hexanone	7.461	43	3878m	0.297	ppbv	
52) Tetrachloroethene	8.244	164	2725m	0.425	ppbv	
53) Toluene	6.952	91	5590m	0.314	ppbv	
54) 1,2-Dibromoethane	7.674	107	4141m	0.392	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.937	131	4485	0.517	ppbv #	61
57) Chlorobenzene	8.933	112	7727m	0.523	ppbv	
58) Ethyl Benzene	9.367	91	6849m	0.279	ppbv	
59) m/p-Xylene	9.564	91	10466m	0.508	ppbv	
60) o-Xylene	9.972	91	5683	0.276	ppbv	96
61) Styrene	9.885	104	2174m	0.283	ppbv	
62) Isopropylbenzene	10.548	105	8884	0.299	ppbv #	87
63) 1,1,2,2-Tetrachloroethane	9.979	83	7339	0.517	ppbv	92
64) n-propylbenzene	10.998	120	2029	0.279	ppbv	86
65) tert-Butylbenzene	11.542	119	6663	0.251	ppbv	99
66) Benzyl Chloride	11.629	91	1575m	0.514	ppbv	
67) sec-Butylbenzene	11.778	105	11045	0.293	ppbv	100
69) p-Isopropyltoluene	11.937	119	7712	0.243	ppbv	97
70) n-Butylbenzene	12.293	91	8444	0.257	ppbv	99
71) 2-Chlorotoluene	10.911	91	7493	0.321	ppbv	96
72) 4-Ethyltoluene	11.134	105	6341	0.261	ppbv #	93
73) 1,3,5-Trimethylbenzene	11.215	105	6099	0.285	ppbv #	75
74) 1,2,4-Trimethylbenzene	11.545	105	7236	0.280	ppbv	88
75) 1,3-Dichlorobenzene	11.620	146	5936	0.412	ppbv	90
76) 1,4-Dichlorobenzene	11.684	146	5050	0.371	ppbv	96
77) 1,2-Dichlorobenzene	11.960	146	6571	0.466	ppbv	96
78) Hexachloro-1,3-Butadiene	13.892	225	7279	0.517	ppbv	96
79) Naphthalene	13.523	128	4539m	0.209	ppbv	
80) Naphthalene,2-methyl-	14.471	142	1321m	0.082	ppbv	
81) 1,2,4-Trichlorobenzene	13.452	180	2644m	0.228	ppbv	

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

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