

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042503.D
 Acq On : 06 May 2025 18:39
 Operator : SY/MD
 Sample : MDL3 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL3 0.40

Manual Integrations
 APPROVED

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

Quant Time: May 07 01:45:46 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	68668	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.972	114	180254	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.895	117	149930	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 142737 10.268 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	6034	0.531	ppbv	92
3) Chlorodifluoromethane	1.480	51	6441	0.536	ppbv	99
4) Chloromethane	1.538	50	2310	0.486	ppbv	90
5) Vinyl Chloride	1.583	62	2316	0.484	ppbv	96
6) Bromomethane	1.674	94	1285	0.569	ppbv #	76
7) Chloroethane	1.710	64	920	0.521	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	5514	0.589	ppbv	97
9) Propene	1.486	41	1424	0.362	ppbv	88
10) Heptane	5.011	43	3000m	0.294	ppbv	
11) Trichlorofluoromethane	1.881	101	5367	0.512	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	4225	0.505	ppbv #	83
13) Ethanol	1.729	45	487m	0.611	ppbv	
14) Bromoethene	1.787	108	1858	0.601	ppbv #	81
15) Acetone	1.842	43	8492	0.677	ppbv	92
16) 1,3-Butadiene	1.612	39	2995	0.542	ppbv	87
17) tert-Butyl alcohol	2.053	59	5104	0.462	ppbv #	87
18) 1,1-Dichloroethene	2.036	96	2111m	0.540	ppbv	
19) Isopropyl Alcohol	1.897	45	3619	0.522	ppbv #	85
20) Methylene Chloride	2.069	84	2045	0.543	ppbv #	66
21) Allyl Chloride	2.104	41	3615	0.448	ppbv #	59
22) trans-1,2-Dichloroethene	2.350	96	2315	0.507	ppbv	94
23) Vinyl Acetate	2.470	43	4942m	0.413	ppbv	
24) 1,1-Dichloroethane	2.415	63	4675	0.502	ppbv #	88
25) Ethyl Acetate	2.849	43	6874m	0.342	ppbv	
26) Hexane	2.839	57	2781	0.318	ppbv #	71
27) Carbon Disulfide	2.156	76	4721	0.463	ppbv #	1
28) Methyl tert-Butyl Ether	2.451	73	2422	0.461	ppbv #	78
29) Chloroform	2.859	83	9130	0.557	ppbv	98
30) Cyclohexane	3.865	84	2297m	0.314	ppbv	
31) cis-1,2-Dichloroethene	2.729	61	3673m	0.360	ppbv	
32) 1,1,1-Trichloroethane	3.376	97	8191	0.461	ppbv	99
34) 2-Butanone	2.570	43	5597	0.429	ppbv #	89
35) Carbon Tetrachloride	3.775	117	7943	0.485	ppbv #	88
36) Benzene	3.671	78	7784m	0.458	ppbv	
37) 1,2-Dichloroethane	3.231	62	6744	0.514	ppbv	98
38) Trichloroethene	4.571	130	2973m	0.458	ppbv	
39) 1,2-Dichloropropane	4.328	63	2953	0.464	ppbv #	82
40) 1,4-Dioxane	4.642	88	1115m	0.374	ppbv	
41) Tetrahydrofuran	3.082	42	2224m	0.359	ppbv	
42) Bromodichloromethane	4.506	83	7872	0.491	ppbv	90
43) Methyl Methacrylate	4.904	69	2010m	0.317	ppbv	
44) 2,2,4-Trimethylpentane	4.655	57	10016m	0.363	ppbv	
45) t-1,3-Dichloropropene	6.432	75	2599m	0.312	ppbv	

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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)
46) cis-1,3-Dichloropropene	5.623	75	3534m	0.357	ppbv	
47) 1,1,2-Trichloroethane	6.610	97	4113m	0.589	ppbv	
48) Dibromochloromethane	7.403	129	4854m	0.412	ppbv	
49) Bromoform	9.503	173	4158m	0.421	ppbv	
50) 4-Methyl-2-Pentanone	5.801	43	6022m	0.365	ppbv	
51) 2-Hexanone	7.471	43	4091m	0.310	ppbv	
52) Tetrachloroethene	8.238	164	2219m	0.343	ppbv	
53) Toluene	6.953	91	5085m	0.282	ppbv	
54) 1,2-Dibromoethane	7.671	107	3912m	0.366	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.940	131	5499	0.621	ppbv #	1
57) Chlorobenzene	8.930	112	7393m	0.491	ppbv	
58) Ethyl Benzene	9.371	91	7245m	0.289	ppbv	
59) m/p-Xylene	9.545	91	11659m	0.555	ppbv	
60) o-Xylene	9.976	91	6164	0.293	ppbv	97
61) Styrene	9.885	104	2490m	0.317	ppbv	
62) Isopropylbenzene	10.552	105	9869	0.325	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	7187	0.496	ppbv	94
64) n-propylbenzene	11.002	120	2644m	0.357	ppbv	
65) tert-Butylbenzene	11.539	119	7043	0.260	ppbv	92
66) Benzyl Chloride	11.627	91	1408m	0.450	ppbv	
67) sec-Butylbenzene	11.775	105	12043	0.313	ppbv	98
69) p-Isopropyltoluene	11.937	119	9149	0.282	ppbv	98
70) n-Butylbenzene	12.290	91	8909	0.266	ppbv	90
71) 2-Chlorotoluene	10.911	91	6834	0.287	ppbv	99
72) 4-Ethyltoluene	11.135	105	6847	0.276	ppbv #	90
73) 1,3,5-Trimethylbenzene	11.216	105	6116	0.280	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	7792	0.295	ppbv #	86
75) 1,3-Dichlorobenzene	11.617	146	5925	0.403	ppbv	94
76) 1,4-Dichlorobenzene	11.685	146	5815	0.418	ppbv	91
77) 1,2-Dichlorobenzene	11.957	146	7046	0.490	ppbv	93
78) Hexachloro-1,3-Butadiene	13.892	225	7019	0.489	ppbv	98
79) Naphthalene	13.523	128	4704m	0.212	ppbv	
80) Naphthalene,2-methyl-	14.459	142	1201	0.073	ppbv #	86
81) 1,2,4-Trichlorobenzene	13.449	180	2702	0.228	ppbv	96

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

