

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050725\
 Data File : VL042514.D
 Acq On : 07 May 2025 12:43
 Operator : SY/MD
 Sample : MDL3 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL3 0.45

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2025
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 08 01:33:35 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	2.790	49	74745	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	193374	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	161117	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 150489 10.074 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	6978	0.564	ppbv	99
3) Chlorodifluoromethane	1.476	51	7075	0.541	ppbv	99
4) Chloromethane	1.535	50	3132	0.606	ppbv #	86
5) Vinyl Chloride	1.580	62	2730	0.524	ppbv	90
6) Bromomethane	1.670	94	1168	0.475	ppbv	95
7) Chloroethane	1.706	64	1152	0.599	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	5498	0.539	ppbv	96
9) Propene	1.483	41	1649	0.386	ppbv #	49
10) Heptane	4.985	43	4480m	0.404	ppbv	
11) Trichlorofluoromethane	1.881	101	6860	0.601	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	4979	0.546	ppbv	94
13) Ethanol	1.725	45	509m	0.586	ppbv	
14) Bromoethene	1.784	108	1850	0.550	ppbv #	85
15) Acetone	1.839	43	8896	0.652	ppbv	98
16) 1,3-Butadiene	1.609	39	2523	0.419	ppbv	97
17) tert-Butyl alcohol	2.046	59	6119	0.509	ppbv	96
18) 1,1-Dichloroethene	2.039	96	2112	0.496	ppbv #	62
19) Isopropyl Alcohol	1.887	45	4171	0.552	ppbv #	94
20) Methylene Chloride	2.065	84	2555	0.623	ppbv #	69
21) Allyl Chloride	2.098	41	5203	0.593	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	2378m	0.478	ppbv	
23) Vinyl Acetate	2.467	43	7253	0.557	ppbv #	88
24) 1,1-Dichloroethane	2.412	63	5121	0.505	ppbv	99
25) Ethyl Acetate	2.845	43	9957m	0.456	ppbv	
26) Hexane	2.829	57	3552	0.373	ppbv #	73
27) Carbon Disulfide	2.149	76	5680	0.511	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	2720	0.476	ppbv #	87
29) Chloroform	2.855	83	9341	0.524	ppbv	94
30) Cyclohexane	3.865	84	3149m	0.396	ppbv	
31) cis-1,2-Dichloroethene	2.729	61	4851	0.437	ppbv #	80
32) 1,1,1-Trichloroethane	3.373	97	9173	0.474	ppbv	96
34) 2-Butanone	2.567	43	7373	0.527	ppbv	96
35) Carbon Tetrachloride	3.768	117	9287m	0.529	ppbv	
36) Benzene	3.661	78	8632	0.473	ppbv #	91
37) 1,2-Dichloroethane	3.224	62	7577	0.539	ppbv	98
38) Trichloroethene	4.554	130	3719m	0.534	ppbv	
39) 1,2-Dichloropropane	4.321	63	3867m	0.566	ppbv	
40) 1,4-Dioxane	4.609	88	1360m	0.425	ppbv	
41) Tetrahydrofuran	3.075	42	2537	0.382	ppbv #	86
42) Bromodichloromethane	4.499	83	8625	0.502	ppbv	95
43) Methyl Methacrylate	4.888	69	2805m	0.412	ppbv	
44) 2,2,4-Trimethylpentane	4.655	57	12303m	0.416	ppbv	
45) t-1,3-Dichloropropene	6.428	75	3183m	0.356	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	4182m	0.394	ppbv	
47) 1,1,2-Trichloroethane	6.606	97	4158m	0.555	ppbv	
48) Dibromochloromethane	7.399	129	6441m	0.509	ppbv	
49) Bromoform	9.493	173	4784m	0.451	ppbv	
50) 4-Methyl-2-Pentanone	5.784	43	6926m	0.391	ppbv	
51) 2-Hexanone	7.467	43	5579m	0.394	ppbv	
52) Tetrachloroethene	8.238	164	3041	0.438	ppbv #	79
53) Toluene	6.946	91	6537	0.338	ppbv	92
54) 1,2-Dibromoethane	7.665	107	5276	0.461	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.940	131	5173m	0.544	ppbv	
57) Chlorobenzene	8.930	112	9497	0.587	ppbv #	62
58) Ethyl Benzene	9.364	91	8801	0.327	ppbv	91
59) m/p-Xylene	9.558	91	14758m	0.654	ppbv	
60) o-Xylene	9.972	91	6935	0.307	ppbv	90
61) Styrene	9.882	104	2489	0.295	ppbv	90
62) Isopropylbenzene	10.549	105	12183	0.374	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	9024	0.579	ppbv	98
64) n-propylbenzene	10.995	120	2583	0.324	ppbv	96
65) tert-Butylbenzene	11.536	119	10253	0.352	ppbv	97
66) Benzyl Chloride	11.620	91	1892m	0.563	ppbv	
67) sec-Butylbenzene	11.775	105	15290	0.370	ppbv	99
69) p-Isopropyltoluene	11.931	119	11497	0.330	ppbv	97
70) n-Butylbenzene	12.287	91	11365	0.316	ppbv	97
71) 2-Chlorotoluene	10.908	91	8976	0.351	ppbv	92
72) 4-Ethyltoluene	11.134	105	8691	0.326	ppbv #	94
73) 1,3,5-Trimethylbenzene	11.212	105	7777	0.332	ppbv #	86
74) 1,2,4-Trimethylbenzene	11.539	105	9331m	0.329	ppbv	
75) 1,3-Dichlorobenzene	11.613	146	7162	0.454	ppbv	90
76) 1,4-Dichlorobenzene	11.681	146	7390	0.495	ppbv	94
77) 1,2-Dichlorobenzene	11.953	146	7680	0.497	ppbv	94
78) Hexachloro-1,3-Butadiene	13.886	225	8669	0.562	ppbv	93
79) Naphthalene	13.520	128	6162	0.258	ppbv #	94
80) Naphthalene,2-methyl-	14.462	142	1455	0.082	ppbv #	81
81) 1,2,4-Trichlorobenzene	13.449	180	3714	0.292	ppbv	88

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

