

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041882.D
 Acq On : 09 Jan 2025 23:47
 Operator : SY/MD
 Sample : MDL 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL 0.1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 03:12:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

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

QLast Update : Fri Jan 10 00:31:30 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	115767	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	347764	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.894	117	306857	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.386 95 248419 10.096 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	3122	0.164	ppbv	92
3) Chlorodifluoromethane	1.479	51	3254	0.156	ppbv	94
4) Chloromethane	1.534	50	1413	0.191	ppbv #	65
5) Vinyl Chloride	1.583	62	1299	0.165	ppbv	97
6) Bromomethane	1.670	94	695	0.188	ppbv #	58
7) Chloroethane	1.709	64	509	0.167	ppbv #	88
8) Dichlorotetrafluoroethane	1.557	85	2371	0.143	ppbv	96
9) Propene	1.486	41	2074	0.213	ppbv	85
10) Heptane	4.997	43	3399m	0.132	ppbv	
11) Trichlorofluoromethane	1.884	101	2873	0.147	ppbv #	67
12) 1,1,2-Trichlorotrifluo...	2.146	101	2266	0.143	ppbv	94
13) Ethanol	1.725	45	591m	0.955	ppbv	
14) Bromoethene	1.783	108	758m	0.134	ppbv	
15) Acetone	1.842	43	5248	0.269	ppbv	100
16) 1,3-Butadiene	1.612	39	2301m	0.274	ppbv	
17) tert-Butyl alcohol	2.049	59	3009	0.136	ppbv #	81
18) 1,1-Dichloroethene	2.039	96	1274	0.178	ppbv	86
19) Isopropyl Alcohol	1.890	45	2591	0.252	ppbv #	84
20) Methylene Chloride	2.068	84	2140	0.321	ppbv	87
21) Allyl Chloride	2.101	41	2243m	0.180	ppbv	
22) trans-1,2-Dichloroethene	2.347	96	1223	0.148	ppbv	89
23) Vinyl Acetate	2.466	43	2079m	0.210	ppbv	
24) 1,1-Dichloroethane	2.421	63	2340	0.149	ppbv #	88
25) Ethyl Acetate	2.848	43	5188	0.107	ppbv #	93
26) Hexane	2.835	57	2842	0.142	ppbv #	87
27) Carbon Disulfide	2.159	76	2000	0.105	ppbv #	1
28) Methyl tert-Butyl Ether	2.453	73	1736	0.114	ppbv #	82
29) Chloroform	2.855	83	3931	0.141	ppbv #	62
30) Cyclohexane	3.868	84	2401m	0.140	ppbv	
31) cis-1,2-Dichloroethene	2.732	61	2710m	0.139	ppbv	
32) 1,1,1-Trichloroethane	3.382	97	3308	0.119	ppbv #	91
34) 2-Butanone	2.573	43	3967	0.137	ppbv	98
35) Carbon Tetrachloride	3.774	117	2870m	0.106	ppbv	
36) Benzene	3.674	78	4958	0.123	ppbv #	91
37) 1,2-Dichloroethane	3.227	62	2893	0.137	ppbv #	93
38) Trichloroethene	4.567	130	2285m	0.143	ppbv	
39) 1,2-Dichloropropane	4.327	63	1919m	0.134	ppbv	
40) 1,4-Dioxane	4.638	88	997m	0.138	ppbv	
41) Tetrahydrofuran	3.078	42	2189m	0.129	ppbv	
42) Bromodichloromethane	4.505	83	3183m	0.109	ppbv	
43) Methyl Methacrylate	4.904	69	1712m	0.104	ppbv	
44) 2,2,4-Trimethylpentane	4.658	57	7734m	0.113	ppbv	
45) t-1,3-Dichloropropene	6.428	75	1487m	0.088	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	2125m	0.098	ppbv	
47) 1,1,2-Trichloroethane	6.596	97	1983m	0.131	ppbv	
48) Dibromochloromethane	7.402	129	2495m	0.109	ppbv	
49) Bromoform	9.493	173	1894	0.095	ppbv #	84
50) 4-Methyl-2-Pentanone	5.800	43	4331m	0.105	ppbv	
51) 2-Hexanone	7.473	43	3491m	0.103	ppbv	
52) Tetrachloroethene	8.234	164	2242m	0.145	ppbv	
53) Toluene	6.952	91	5510m	0.115	ppbv	
54) 1,2-Dibromoethane	7.674	107	2471m	0.120	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.936	131	2262	0.124	ppbv #	55
57) Chlorobenzene	8.933	112	4194m	0.123	ppbv	
58) Ethyl Benzene	9.370	91	6619m	0.105	ppbv	
59) m/p-Xylene	9.564	91	11098m	0.223	ppbv	
60) o-Xylene	9.979	91	5689	0.114	ppbv	100
61) Styrene	9.885	104	2595m	0.104	ppbv	
62) Isopropylbenzene	10.552	105	8208	0.110	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.972	83	3256m	0.109	ppbv	
64) n-propylbenzene	10.995	120	1853m	0.095	ppbv	
65) tert-Butylbenzene	11.542	119	7485	0.110	ppbv	95
66) Benzyl Chloride	11.623	91	469m	0.067	ppbv	
67) sec-Butylbenzene	11.778	105	9095	0.097	ppbv #	90
69) p-Isopropyltoluene	11.937	119	7947	0.100	ppbv	93
70) n-Butylbenzene	12.290	91	7611	0.095	ppbv	99
71) 2-Chlorotoluene	10.911	91	6921	0.119	ppbv	99
72) 4-Ethyltoluene	11.134	105	5819	0.095	ppbv #	94
73) 1,3,5-Trimethylbenzene	11.212	105	5314	0.103	ppbv	97
74) 1,2,4-Trimethylbenzene	11.548	105	5664	0.101	ppbv #	93
75) 1,3-Dichlorobenzene	11.616	146	4287	0.127	ppbv	98
76) 1,4-Dichlorobenzene	11.678	146	3888	0.116	ppbv	94
77) 1,2-Dichlorobenzene	11.953	146	4068m	0.128	ppbv	
78) Hexachloro-1,3-Butadiene	13.892	225	3493	0.128	ppbv	98
79) Naphthalene	13.526	128	4908	0.081	ppbv #	88
80) Naphthalene,2-methyl-	14.468	142	1952	0.060	ppbv #	77
81) 1,2,4-Trichlorobenzene	13.448	180	3268	0.113	ppbv	96

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

