

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041934.D
 Acq On : 20 Jan 2025 23:30
 Operator : SY/MD
 Sample : MDL 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL 0.1

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/21/2025
 Supervised By : Mahesh Dadoda 01/21/2025

Quant Time: Jan 21 05:08:40 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	132028	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.946	114	375060	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.869	117	321701	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.367	95	250881	9.901	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	2056	0.114	ppbv	100
3) Chlorodifluoromethane	1.470	51	2491	0.132	ppbv	99
4) Chloromethane	1.528	50	825	0.122	ppbv #	87
5) Vinyl Chloride	1.573	62	890	0.130	ppbv #	70
6) Bromomethane	1.661	94	561	0.172	ppbv #	63
7) Chloroethane	1.696	64	391	0.147	ppbv #	79
8) Dichlorotetrafluoroethane	1.551	85	1706	0.109	ppbv	85
9) Propene	1.479	41	1121m	0.144	ppbv	
10) Heptane	4.965	43	1749m	0.084	ppbv	
11) Trichlorofluoromethane	1.871	101	2260	0.121	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.133	101	1538	0.105	ppbv	94
13) Ethanol	1.719	45	209	0.368	ppbv #	31
14) Bromoethene	1.777	108	563	0.105	ppbv #	74
15) Acetone	1.832	43	2963	0.187	ppbv #	87
16) 1,3-Butadiene	1.606	39	1134	0.159	ppbv	100
17) tert-Butyl alcohol	2.039	59	1849	0.095	ppbv #	90
18) 1,1-Dichloroethene	2.026	96	835	0.126	ppbv #	66
19) Isopropyl Alcohol	1.884	45	1514	0.161	ppbv #	42
20) Methylene Chloride	2.056	84	1512	0.241	ppbv #	77
21) Allyl Chloride	2.091	41	1348	0.123	ppbv #	60
22) trans-1,2-Dichloroethene	2.334	96	920	0.123	ppbv #	71
23) Vinyl Acetate	2.457	43	1724m	0.219	ppbv	
24) 1,1-Dichloroethane	2.399	63	1725m	0.120	ppbv	
25) Ethyl Acetate	2.839	43	4071m	0.095	ppbv	
26) Hexane	2.819	57	1551	0.092	ppbv #	79
27) Carbon Disulfide	2.143	76	1603	0.096	ppbv #	1
28) Methyl tert-Butyl Ether	2.438	73	1222	0.095	ppbv	100
29) Chloroform	2.845	83	3120m	0.117	ppbv	
30) Cyclohexane	3.849	84	1219m	0.083	ppbv	
31) cis-1,2-Dichloroethene	2.716	61	1733	0.097	ppbv #	89
32) 1,1,1-Trichloroethane	3.357	97	2783m	0.109	ppbv	
34) 2-Butanone	2.557	43	3222m	0.135	ppbv	
35) Carbon Tetrachloride	3.755	117	2446m	0.104	ppbv	
36) Benzene	3.645	78	3602	0.105	ppbv	96
37) 1,2-Dichloroethane	3.208	62	2502	0.130	ppbv	98
38) Trichloroethene	4.525	130	1659m	0.122	ppbv	
39) 1,2-Dichloropropane	4.308	63	1466m	0.121	ppbv	
40) 1,4-Dioxane	4.609	88	396m	0.065	ppbv	
41) Tetrahydrofuran	3.065	42	1418m	0.109	ppbv	
42) Bromodichloromethane	4.480	83	2842m	0.110	ppbv	
43) Methyl Methacrylate	4.865	69	1129m	0.088	ppbv	
44) 2,2,4-Trimethylpentane	4.629	57	4750m	0.085	ppbv	
45) t-1,3-Dichloropropene	6.393	75	1077m	0.090	ppbv	

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 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	1401m	0.089	ppbv	
47) 1,1,2-Trichloroethane	6.564	97	1358m	0.106	ppbv	
48) Dibromochloromethane	7.373	129	2041m	0.103	ppbv	
49) Bromoform	9.464	173	1311m	0.081	ppbv	
50) 4-Methyl-2-Pentanone	5.758	43	2755m	0.085	ppbv	
51) 2-Hexanone	7.438	43	2058m	0.082	ppbv	
52) Tetrachloroethene	8.218	164	1214m	0.102	ppbv	
53) Toluene	6.920	91	3038m	0.081	ppbv	
54) 1,2-Dibromoethane	7.639	107	1760m	0.100	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.911	131	1573m	0.098	ppbv	
57) Chlorobenzene	8.908	112	3707	0.125	ppbv #	69
58) Ethyl Benzene	9.344	91	3645m	0.073	ppbv	
59) m/p-Xylene	9.519	91	5165m	0.128	ppbv	
60) o-Xylene	9.950	91	2736m	0.068	ppbv	
61) Styrene	9.856	104	1267m	0.071	ppbv	
62) Isopropylbenzene	10.529	105	5186	0.084	ppbv	97
63) 1,1,1,2-Tetrachloroethane	9.953	83	3019	0.118	ppbv	96
64) n-propylbenzene	10.979	120	1056m	0.068	ppbv	
65) tert-Butylbenzene	11.520	119	3130	0.055	ppbv	98
66) Benzyl Chloride	11.607	91	277m	0.079	ppbv	
67) sec-Butylbenzene	11.759	105	4561	0.059	ppbv	100
69) p-Isopropyltoluene	11.918	119	3352	0.052	ppbv	94
70) n-Butylbenzene	12.274	91	3236	0.051	ppbv	95
71) 2-Chlorotoluene	10.888	91	3359m	0.073	ppbv	
72) 4-Ethyltoluene	11.118	105	2748m	0.057	ppbv	
73) 1,3,5-Trimethylbenzene	11.199	105	2452	0.058	ppbv	95
74) 1,2,4-Trimethylbenzene	11.529	105	2672	0.058	ppbv #	84
75) 1,3-Dichlorobenzene	11.600	146	2000	0.074	ppbv	88
76) 1,4-Dichlorobenzene	11.662	146	2211m	0.083	ppbv	
77) 1,2-Dichlorobenzene	11.940	146	2552	0.095	ppbv	93
78) Hexachloro-1,3-Butadiene	13.876	225	2193	0.099	ppbv	95
79) Naphthalene	13.507	128	2222	0.048	ppbv #	91
80) Naphthalene,2-methyl-	14.458	142	709m	0.032	ppbv	
81) 1,2,4-Trichlorobenzene	13.436	180	1605	0.071	ppbv	98

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

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