

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042532.D
 Acq On : 12 May 2025 12:58
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:50:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	103341	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	300628	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	251305	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 223868 10.238 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	34904	2.080	ppbv	96
3) Chlorodifluoromethane	1.473	51	37203	2.175	ppbv	99
4) Chloromethane	1.528	50	15355	2.242	ppbv	98
5) Vinyl Chloride	1.577	62	13527	1.930	ppbv	100
6) Bromomethane	1.664	94	6881	2.068	ppbv	92
7) Chloroethane	1.703	64	6208m	2.251	ppbv	
8) Dichlorotetrafluoroethane	1.551	85	29662	2.054	ppbv	98
9) Propene	1.479	41	3429	0.923	ppbv #	1
10) Heptane	4.975	43	28195	1.991	ppbv	97
11) Trichlorofluoromethane	1.874	101	34879	2.161	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	27757	2.141	ppbv	95
13) Ethanol	1.719	45	1983	1.956	ppbv	89
14) Bromoethene	1.780	108	10359	2.192	ppbv	95
15) Acetone	1.832	43	37463	2.269	ppbv	98
16) 1,3-Butadiene	1.606	39	15833	2.132	ppbv	95
17) tert-Butyl alcohol	2.039	59	30915	2.026	ppbv	98
18) 1,1-Dichloroethene	2.033	96	11781	2.073	ppbv	87
19) Isopropyl Alcohol	1.884	45	18501	2.062	ppbv #	95
20) Methylene Chloride	2.059	84	11357	1.975	ppbv	93
21) Allyl Chloride	2.094	41	22565	2.064	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	14573	2.193	ppbv	81
23) Vinyl Acetate	2.460	43	34320	1.985	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	27421	2.132	ppbv	99
25) Ethyl Acetate	2.836	43	61595	2.124	ppbv	100
26) Hexane	2.823	57	23715	1.992	ppbv	86
27) Carbon Disulfide	2.146	76	31735	2.065	ppbv #	94
28) Methyl tert-Butyl Ether	2.438	73	13425	2.030	ppbv	94
29) Chloroform	2.845	83	51800	2.098	ppbv	97
30) Cyclohexane	3.855	84	18925	1.936	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	26277	1.955	ppbv	88
32) 1,1,1-Trichloroethane	3.363	97	50640	2.033	ppbv	98
34) 2-Butanone	2.557	43	39851	2.011	ppbv	98
35) Carbon Tetrachloride	3.761	117	54873	2.030	ppbv	89
36) Benzene	3.651	78	52942	1.987	ppbv	99
37) 1,2-Dichloroethane	3.214	62	39974	2.103	ppbv	100
38) Trichloroethene	4.541	130	23078m	2.027	ppbv	
39) 1,2-Dichloropropane	4.312	63	19038	1.920	ppbv	92
40) 1,4-Dioxane	4.590	88	7446m	1.883	ppbv	
41) Tetrahydrofuran	3.059	42	17163m	2.008	ppbv	
42) Bromodichloromethane	4.490	83	52451	2.072	ppbv	92
43) Methyl Methacrylate	4.878	69	17050m	1.916	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	86512m	2.068	ppbv	
45) t-1,3-Dichloropropene	6.412	75	20334m	1.790	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	25085m	1.831	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	23580m	2.019	ppbv	
48) Dibromochloromethane	7.383	129	40163	2.058	ppbv	99
49) Bromoform	9.480	173	32916	2.056	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	46331	1.994	ppbv	96
51) 2-Hexanone	7.438	43	33088	1.916	ppbv #	96
52) Tetrachloroethene	8.221	164	19118	1.863	ppbv	94
53) Toluene	6.930	91	49216	1.882	ppbv	96
54) 1,2-Dibromoethane	7.648	107	33420	1.958	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.924	131	33013	2.119	ppbv	94
57) Chlorobenzene	8.917	112	54172	2.147	ppbv	92
58) Ethyl Benzene	9.351	91	66256	1.934	ppbv	91
59) m/p-Xylene	9.545	91	133205m	4.372	ppbv	
60) o-Xylene	9.963	91	64958	2.188	ppbv	99
61) Styrene	9.869	104	19713m	1.802	ppbv	
62) Isopropylbenzene	10.539	105	96054	2.147	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	49909	2.096	ppbv	98
64) n-propylbenzene	10.989	120	25286	2.230	ppbv	93
65) tert-Butylbenzene	11.529	119	93604	2.278	ppbv	97
66) Benzyl Chloride	11.613	91	11357m	2.089	ppbv	
67) sec-Butylbenzene	11.765	105	136432	2.316	ppbv	100
69) p-Isopropyltoluene	11.924	119	112913	2.332	ppbv	98
70) n-Butylbenzene	12.280	91	112776	2.357	ppbv	96
71) 2-Chlorotoluene	10.898	91	68153	2.012	ppbv	97
72) 4-Ethyltoluene	11.125	105	79670	2.162	ppbv	96
73) 1,3,5-Trimethylbenzene	11.202	105	71983	2.242	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	96474	2.443	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	54948	2.221	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	53480	2.272	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	59194	2.317	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	49456	2.258	ppbv	97
79) Naphthalene	13.513	128	69902	2.564	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	29203	1.841	ppbv	95
81) 1,2,4-Trichlorobenzene	13.439	180	37757	2.268	ppbv	98

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

