

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042953.D
 Acq On : 22 Sep 2025 11:22
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	165435	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	509306	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	464091	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 347374 10.027 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.499	85	11508	0.517	ppbv	96
3) Chlorodifluoromethane	1.476	51	14744	0.532	ppbv #	90
4) Chloromethane	1.534	50	5729	0.569	ppbv	97
5) Vinyl Chloride	1.580	62	4373	0.480	ppbv	93
6) Bromomethane	1.667	94	1850	0.576	ppbv	100
7) Chloroethane	1.703	64	1936	0.548	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	10149	0.534	ppbv	96
9) Propene	1.483	41	6482	0.537	ppbv	94
10) Heptane	4.978	43	17388m	0.537	ppbv	
11) Trichlorofluoromethane	1.877	101	11200	0.522	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	9346	0.538	ppbv	100
13) Ethanol	1.719	45	629m	0.544	ppbv	
14) Bromoethene	1.784	108	3553	0.541	ppbv #	84
15) Acetone	1.835	43	12326	0.572	ppbv #	86
16) 1,3-Butadiene	1.609	39	6215	0.611	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13128	0.555	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4543	0.565	ppbv	93
19) Isopropyl Alcohol	1.887	45	7431	0.574	ppbv #	46
20) Methylene Chloride	2.062	84	6881	0.430	ppbv	87
21) Allyl Chloride	2.098	41	7481	0.499	ppbv #	69
22) trans-1,2-Dichloroethene	2.337	96	4869m	0.533	ppbv	
23) Vinyl Acetate	2.460	43	18264	0.593	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9484	0.529	ppbv #	98
25) Ethyl Acetate	2.836	43	28162	0.517	ppbv #	95
26) Hexane	2.823	57	13406	0.540	ppbv	98
27) Carbon Disulfide	2.149	76	11535	0.518	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	7886	0.611	ppbv #	65
29) Chloroform	2.845	83	17188	0.530	ppbv	100
30) Cyclohexane	3.855	84	10856	0.523	ppbv	93
31) cis-1,2-Dichloroethene	2.719	61	11939	0.513	ppbv	99
32) 1,1,1-Trichloroethane	3.366	97	16684	0.474	ppbv	96
34) 2-Butanone	2.557	43	18948	0.531	ppbv	96
35) Carbon Tetrachloride	3.761	117	16799	0.513	ppbv	94
36) Benzene	3.654	78	24807	0.519	ppbv #	95
37) 1,2-Dichloroethane	3.217	62	12788	0.508	ppbv	100
38) Trichloroethene	4.544	130	12243	0.515	ppbv #	88
39) 1,2-Dichloropropane	4.315	63	8772	0.502	ppbv #	86
40) 1,4-Dioxane	4.599	88	4405m	0.543	ppbv	
41) Tetrahydrofuran	3.059	42	10871	0.530	ppbv	95
42) Bromodichloromethane	4.486	83	17552	0.501	ppbv	96
43) Methyl Methacrylate	4.881	69	10330m	0.532	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	43414m	0.525	ppbv	
45) t-1,3-Dichloropropene	6.409	75	10262m	0.492	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	13304m	0.500	ppbv	
47) 1,1,2-Trichloroethane	6.580	97	9725m	0.527	ppbv	
48) Dibromochloromethane	7.383	129	14563	0.493	ppbv	99
49) Bromoform	9.480	173	12136	0.473	ppbv	97
50) 4-Methyl-2-Pentanone	5.761	43	23639	0.493	ppbv	95
51) 2-Hexanone	7.441	43	18322	0.480	ppbv #	97
52) Tetrachloroethene	8.218	164	9073m	0.490	ppbv	
53) Toluene	6.927	91	29404	0.519	ppbv	99
54) 1,2-Dibromoethane	7.648	107	13233	0.510	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.924	131	11535	0.519	ppbv #	1
57) Chlorobenzene	8.920	112	22463	0.530	ppbv	91
58) Ethyl Benzene	9.351	91	38459	0.505	ppbv	96
59) m/p-Xylene	9.545	91	61801m	1.028	ppbv	
60) o-Xylene	9.959	91	30976	0.516	ppbv	98
61) Styrene	9.865	104	14048	0.495	ppbv	98
62) Isopropylbenzene	10.535	105	46640	0.521	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15974	0.506	ppbv	97
64) n-propylbenzene	10.985	120	12333	0.527	ppbv	100
65) tert-Butylbenzene	11.529	119	42595	0.535	ppbv	99
66) Benzyl Chloride	11.613	91	3942m	0.472	ppbv	
67) sec-Butylbenzene	11.765	105	58190	0.525	ppbv	99
69) p-Isopropyltoluene	11.924	119	48855	0.521	ppbv	100
70) n-Butylbenzene	12.280	91	44764	0.489	ppbv	100
71) 2-Chlorotoluene	10.898	91	35797	0.530	ppbv	96
72) 4-Ethyltoluene	11.125	105	39803	0.529	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	30932	0.507	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	35601	0.529	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	21307	0.510	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	21404	0.516	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	20279	0.510	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	17515	0.563	ppbv	98
79) Naphthalene	13.510	128	25577	0.429	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	8906	0.484	ppbv	92
81) 1,2,4-Trichlorobenzene	13.439	180	12920	0.406	ppbv	98

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

