

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042726.D
 Acq On : 22 Jul 2025 10:38
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Jul 23 01:31:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	102092	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	307224	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	274930	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 223485 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	7850	0.493	ppbv	94
3) Chlorodifluoromethane	1.476	51	9466	0.525	ppbv	95
4) Chloromethane	1.531	50	3533	0.541	ppbv #	87
5) Vinyl Chloride	1.580	62	2904	0.450	ppbv	98
6) Bromomethane	1.667	94	1449	0.555	ppbv	90
7) Chloroethane	1.706	64	1367	0.558	ppbv #	86
8) Dichlorotetrafluoroethane	1.554	85	7062	0.525	ppbv	99
9) Propene	1.482	41	3284	0.512	ppbv #	78
10) Heptane	4.968	43	9259m	0.518	ppbv	
11) Trichlorofluoromethane	1.877	101	8580	0.523	ppbv	89
12) 1,1,2-Trichlorotrifluo...	2.140	101	7094	0.553	ppbv	98
13) Ethanol	1.719	45	738	0.715	ppbv #	43
14) Bromoethene	1.780	108	2451	0.536	ppbv #	93
15) Acetone	1.835	43	10023	0.586	ppbv	92
16) 1,3-Butadiene	1.609	39	3860	0.527	ppbv	88
17) tert-Butyl alcohol	2.039	59	9192	0.566	ppbv #	86
18) 1,1-Dichloroethene	2.033	96	2921	0.535	ppbv	88
19) Isopropyl Alcohol	1.884	45	5028	0.555	ppbv #	44
20) Methylene Chloride	2.062	84	3449	0.642	ppbv #	88
21) Allyl Chloride	2.094	41	6018	0.549	ppbv	86
22) trans-1,2-Dichloroethene	2.343	96	3473m	0.553	ppbv	
23) Vinyl Acetate	2.460	43	10439	0.536	ppbv #	92
24) 1,1-Dichloroethane	2.408	63	6804	0.543	ppbv	96
25) Ethyl Acetate	2.835	43	15850	0.502	ppbv	96
26) Hexane	2.822	57	6804	0.492	ppbv	86
27) Carbon Disulfide	2.149	76	7702	0.521	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	4207	0.523	ppbv #	89
29) Chloroform	2.845	83	12038	0.527	ppbv #	81
30) Cyclohexane	3.855	84	6181m	0.512	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	7924	0.532	ppbv	94
32) 1,1,1-Trichloroethane	3.366	97	12154	0.505	ppbv	97
34) 2-Butanone	2.557	43	11532	0.545	ppbv	99
35) Carbon Tetrachloride	3.761	117	11388	0.452	ppbv	89
36) Benzene	3.651	78	14937	0.523	ppbv	97
37) 1,2-Dichloroethane	3.214	62	9142	0.502	ppbv #	93
38) Trichloroethene	4.551	130	7407m	0.533	ppbv	
39) 1,2-Dichloropropane	4.311	63	6104m	0.574	ppbv	
40) 1,4-Dioxane	4.599	88	2675m	0.546	ppbv	
41) Tetrahydrofuran	3.062	42	5442m	0.503	ppbv	
42) Bromodichloromethane	4.489	83	11526m	0.484	ppbv	
43) Methyl Methacrylate	4.881	69	5128m	0.468	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	23243	0.494	ppbv	93
45) t-1,3-Dichloropropene	6.405	75	6564m	0.488	ppbv	

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

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	7623m	0.477	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	6119m	0.526	ppbv	
48) Dibromochloromethane	7.386	129	9290	0.480	ppbv	98
49) Bromoform	9.480	173	7586	0.452	ppbv	95
50) 4-Methyl-2-Pentanone	5.765	43	13814m	0.496	ppbv	
51) 2-Hexanone	7.448	43	10224m	0.459	ppbv	
52) Tetrachloroethene	8.221	164	5979m	0.520	ppbv	
53) Toluene	6.930	91	15909	0.494	ppbv	96
54) 1,2-Dibromoethane	7.648	107	8399m	0.483	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.920	131	7996m	0.540	ppbv	
57) Chlorobenzene	8.917	112	13546m	0.517	ppbv	
58) Ethyl Benzene	9.354	91	22417	0.488	ppbv	97
59) m/p-Xylene	9.529	91	35955m	0.977	ppbv	
60) o-Xylene	9.959	91	18428	0.497	ppbv	97
61) Styrene	9.869	104	7386	0.462	ppbv	91
62) Isopropylbenzene	10.539	105	27939	0.507	ppbv	96
63) 1,1,2,2-Tetrachloroethane	9.959	83	11062	0.522	ppbv	99
64) n-propylbenzene	10.989	120	6928	0.498	ppbv	97
65) tert-Butylbenzene	11.529	119	24755	0.502	ppbv	98
66) Benzyl Chloride	11.616	91	1889m	0.403	ppbv	
67) sec-Butylbenzene	11.765	105	33880	0.500	ppbv	100
69) p-Isopropyltoluene	11.924	119	26183	0.461	ppbv	96
70) n-Butylbenzene	12.280	91	23607	0.435	ppbv	96
71) 2-Chlorotoluene	10.901	91	20494	0.490	ppbv	93
72) 4-Ethyltoluene	11.124	105	20910	0.473	ppbv	97
73) 1,3,5-Trimethylbenzene	11.202	105	16638	0.455	ppbv	95
74) 1,2,4-Trimethylbenzene	11.532	105	19202	0.478	ppbv #	93
75) 1,3-Dichlorobenzene	11.603	146	13841	0.516	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	12275	0.473	ppbv	91
77) 1,2-Dichlorobenzene	11.947	146	13083	0.508	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	13316	0.532	ppbv	95
79) Naphthalene	13.513	128	9818	0.328	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	733m	0.074	ppbv	
81) 1,2,4-Trichlorobenzene	13.435	180	5425	0.296	ppbv	89

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

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