

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043203.D
 Acq On : 18 Nov 2025 09:29
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:48:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	110490	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	296493	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	247761	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 180529 9.941 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	7723	0.496	ppbv	99
3) Chlorodifluoromethane	1.473	51	8538	0.557	ppbv #	82
4) Chloromethane	1.531	50	2881	0.494	ppbv	94
5) Vinyl Chloride	1.580	62	2947	0.462	ppbv #	87
6) Bromomethane	1.667	94	1656	0.536	ppbv	97
7) Chloroethane	1.703	64	1357	0.547	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	6386	0.493	ppbv	100
9) Propene	1.483	41	3739	0.526	ppbv #	1
10) Heptane	4.972	43	11637m	0.597	ppbv	
11) Trichlorofluoromethane	1.878	101	6841	0.453	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.140	101	5863	0.497	ppbv	99
13) Ethanol	1.719	45	1190	0.520	ppbv	64
14) Bromoethene	1.781	108	2476	0.548	ppbv #	75
15) Acetone	1.836	43	9506	0.619	ppbv #	88
16) 1,3-Butadiene	1.606	39	4115	0.601	ppbv	95
17) tert-Butyl alcohol	2.043	59	9854	0.489	ppbv #	68
18) 1,1-Dichloroethene	2.033	96	3068	0.559	ppbv	96
19) Isopropyl Alcohol	1.887	45	4687	0.540	ppbv #	51
20) Methylene Chloride	2.059	84	5006	0.349	ppbv	92
21) Allyl Chloride	2.095	41	6291	0.609	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	3343	0.533	ppbv	80
23) Vinyl Acetate	2.464	43	10414	0.562	ppbv #	92
24) 1,1-Dichloroethane	2.409	63	5803	0.479	ppbv #	96
25) Ethyl Acetate	2.839	43	18625m	0.562	ppbv	
26) Hexane	2.823	57	7589	0.523	ppbv #	91
27) Carbon Disulfide	2.150	76	7198	0.486	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3545	0.498	ppbv #	15
29) Chloroform	2.849	83	10800	0.523	ppbv	95
30) Cyclohexane	3.849	84	6271	0.515	ppbv	85
31) cis-1,2-Dichloroethene	2.719	61	7728	0.536	ppbv	87
32) 1,1,1-Trichloroethane	3.363	97	10886	0.490	ppbv	98
34) 2-Butanone	2.557	43	11026	0.527	ppbv	95
35) Carbon Tetrachloride	3.761	117	11551	0.513	ppbv	94
36) Benzene	3.655	78	14759	0.520	ppbv #	91
37) 1,2-Dichloroethane	3.218	62	8477	0.510	ppbv #	93
38) Trichloroethene	4.542	130	5775	0.519	ppbv #	87
39) 1,2-Dichloropropane	4.312	63	5510	0.530	ppbv #	80
40) 1,4-Dioxane	4.597	88	2675m	0.573	ppbv	
41) Tetrahydrofuran	3.059	42	6193	0.536	ppbv	95
42) Bromodichloromethane	4.490	83	11597	0.506	ppbv #	84
43) Methyl Methacrylate	4.881	69	8534m	0.566	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	25890	0.531	ppbv	95
45) t-1,3-Dichloropropene	6.412	75	7343	0.523	ppbv	94

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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	8886m	0.539	ppbv	
47) 1,1,2-Trichloroethane	6.581	97	6280m	0.567	ppbv	
48) Dibromochloromethane	7.380	129	9327	0.492	ppbv	97
49) Bromoform	9.481	173	8636	0.514	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	15190	0.515	ppbv	92
51) 2-Hexanone	7.442	43	11594	0.506	ppbv #	93
52) Tetrachloroethene	8.218	164	5097	0.483	ppbv #	82
53) Toluene	6.924	91	17755m	0.525	ppbv	
54) 1,2-Dibromoethane	7.649	107	8708	0.537	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.917	131	9793m	0.538	ppbv	
57) Chlorobenzene	8.917	112	12818	0.504	ppbv	98
58) Ethyl Benzene	9.351	91	23866	0.500	ppbv	96
59) m/p-Xylene	9.526	91	40076m	1.044	ppbv	
60) o-Xylene	9.956	91	19621	0.514	ppbv	100
61) Styrene	9.869	104	8287	0.496	ppbv	96
62) Isopropylbenzene	10.536	105	34773	0.509	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	12591	0.519	ppbv	100
64) n-propylbenzene	10.986	120	8945	0.509	ppbv	100
65) tert-Butylbenzene	11.526	119	31998	0.524	ppbv	99
66) Benzyl Chloride	11.610	91	3403	0.550	ppbv	98
67) sec-Butylbenzene	11.766	105	44448	0.522	ppbv	97
69) p-Isopropyltoluene	11.921	119	37087	0.514	ppbv	100
70) n-Butylbenzene	12.277	91	33153	0.474	ppbv	94
71) 2-Chlorotoluene	10.895	91	27224	0.518	ppbv	99
72) 4-Ethyltoluene	11.122	105	23963	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.199	105	20104	0.515	ppbv	99
74) 1,2,4-Trimethylbenzene	11.533	105	22254	0.522	ppbv	91
75) 1,3-Dichlorobenzene	11.604	146	12926	0.520	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	13076	0.526	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	12069	0.505	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	10578	0.530	ppbv	98
79) Naphthalene	13.513	128	18377	0.486	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	4917	0.495	ppbv	91
81) 1,2,4-Trichlorobenzene	13.439	180	6798	0.402	ppbv	97

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

