

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043207.D
 Acq On : 18 Nov 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Nov 19 00:36:51 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 00:23:01 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/19/2025
 Supervised By : Mahesh Dadoda 11/19/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	102236	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	271570	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	221358	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 167137 10.301 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	7710	0.535	ppbv	97
3) Chlorodifluoromethane	1.476	51	7318	0.516	ppbv #	85
4) Chloromethane	1.531	50	2931	0.545	ppbv #	89
5) Vinyl Chloride	1.580	62	2649	0.475	ppbv	99
6) Bromomethane	1.667	94	1631	0.571	ppbv #	75
7) Chloroethane	1.703	64	1089	0.474	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	6362	0.530	ppbv	99
9) Propene	1.482	41	3350	0.502	ppbv #	1
10) Heptane	4.968	43	8985	0.511	ppbv	98
11) Trichlorofluoromethane	1.877	101	7308	0.523	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	5580	0.512	ppbv	93
13) Ethanol	1.719	45	1278	0.604	ppbv	80
14) Bromoethene	1.780	108	2125	0.508	ppbv #	88
15) Acetone	1.835	43	8232	0.580	ppbv #	86
16) 1,3-Butadiene	1.609	39	3531	0.558	ppbv	93
17) tert-Butyl alcohol	2.039	59	10977	0.589	ppbv #	78
18) 1,1-Dichloroethene	2.033	96	2660	0.524	ppbv	94
19) Isopropyl Alcohol	1.884	45	4592	0.572	ppbv #	43
20) Methylene Chloride	2.059	84	4845	0.789	ppbv	94
21) Allyl Chloride	2.094	41	5210	0.545	ppbv #	93
22) trans-1,2-Dichloroethene	2.337	96	2931	0.505	ppbv	91
23) Vinyl Acetate	2.460	43	9236	0.539	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	6101	0.545	ppbv	97
25) Ethyl Acetate	2.832	43	15202	0.529	ppbv	98
26) Hexane	2.826	57	6714	0.500	ppbv	87
27) Carbon Disulfide	2.149	76	6957	0.507	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	4135	0.627	ppbv	93
29) Chloroform	2.845	83	10027	0.525	ppbv	96
30) Cyclohexane	3.845	84	5881	0.522	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	7169	0.537	ppbv	96
32) 1,1,1-Trichloroethane	3.360	97	10167m	0.500	ppbv	
34) 2-Butanone	2.554	43	11246	0.587	ppbv	97
35) Carbon Tetrachloride	3.755	117	9949m	0.483	ppbv	
36) Benzene	3.648	78	13151	0.506	ppbv	98
37) 1,2-Dichloroethane	3.214	62	8076	0.531	ppbv	99
38) Trichloroethene	4.544	130	5257m	0.516	ppbv	
39) 1,2-Dichloropropane	4.308	63	4937m	0.519	ppbv	
40) 1,4-Dioxane	4.590	88	2350m	0.551	ppbv	
41) Tetrahydrofuran	3.059	42	5573	0.526	ppbv	97
42) Bromodichloromethane	4.483	83	10401	0.496	ppbv	93
43) Methyl Methacrylate	4.868	69	6788m	0.486	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	23295m	0.522	ppbv	
45) t-1,3-Dichloropropene	6.399	75	6273m	0.489	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	7496m	0.495	ppbv	
47) 1,1,2-Trichloroethane	6.577	97	5702m	0.566	ppbv	
48) Dibromochloromethane	7.383	129	8728m	0.503	ppbv	
49) Bromoform	9.477	173	7808	0.508	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	13950	0.503	ppbv	97
51) 2-Hexanone	7.431	43	11005m	0.510	ppbv	
52) Tetrachloroethene	8.218	164	5215	0.539	ppbv	83
53) Toluene	6.923	91	16252	0.526	ppbv	96
54) 1,2-Dibromoethane	7.645	107	7420	0.499	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	9118	0.565	ppbv #	90
57) Chlorobenzene	8.914	112	12189	0.536	ppbv #	95
58) Ethyl Benzene	9.348	91	22234m	0.522	ppbv	
59) m/p-Xylene	9.545	91	36343m	1.059	ppbv	
60) o-Xylene	9.956	91	17877	0.524	ppbv	99
61) Styrene	9.862	104	7164	0.480	ppbv	94
62) Isopropylbenzene	10.532	105	32193	0.527	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.956	83	11191	0.517	ppbv	95
64) n-propylbenzene	10.989	120	8687	0.554	ppbv	94
65) tert-Butylbenzene	11.523	119	29908	0.549	ppbv	99
66) Benzyl Chloride	11.610	91	2612	0.472	ppbv #	93
67) sec-Butylbenzene	11.762	105	41417	0.544	ppbv	100
69) p-Isopropyltoluene	11.921	119	34366	0.533	ppbv	98
70) n-Butylbenzene	12.277	91	32105	0.513	ppbv	99
71) 2-Chlorotoluene	10.895	91	24931	0.531	ppbv	97
72) 4-Ethyltoluene	11.121	105	21651	0.521	ppbv	97
73) 1,3,5-Trimethylbenzene	11.202	105	18639	0.534	ppbv	93
74) 1,2,4-Trimethylbenzene	11.532	105	20816	0.547	ppbv #	80
75) 1,3-Dichlorobenzene	11.600	146	11107	0.500	ppbv	94
76) 1,4-Dichlorobenzene	11.665	146	11623	0.523	ppbv	97
77) 1,2-Dichlorobenzene	11.943	146	11605	0.543	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	10246	0.575	ppbv	99
79) Naphthalene	13.510	128	15125	0.462	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	2640	0.295	ppbv #	86
81) 1,2,4-Trichlorobenzene	13.439	180	6444	0.426	ppbv	98

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

