

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043305.D
 Acq On : 08 Dec 2025 08:44
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Dec 09 00:07:49 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/09/2025
 Supervised By : Mahesh Dadoda 12/11/2025

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

Internal Standards						
1) Bromochloromethane	2.781	49	129333	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	319801	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	246102	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 185245 10.269 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	194161	10.644	ppbv	98
3) Chlorodifluoromethane	1.473	51	181461	10.115	ppbv	95
4) Chloromethane	1.531	50	69866	10.244	ppbv	96
5) Vinyl Chloride	1.580	62	68051	9.124	ppbv	98
6) Bromomethane	1.667	94	33036	9.137	ppbv	97
7) Chloroethane	1.703	64	28027	9.648	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	158307	10.433	ppbv	97
9) Propene	1.479	41	71565	9.394	ppbv #	1
10) Heptane	4.969	43	214107	9.444	ppbv	99
11) Trichlorofluoromethane	1.874	101	201211	11.385	ppbv	96
12) 1,1,2-Trichlorotrifluoro...	2.136	101	154240	11.178	ppbv	97
13) Ethanol	1.719	45	22019	8.220	ppbv	97
14) Bromoethene	1.780	108	55354	10.465	ppbv	96
15) Acetone	1.832	43	154196	8.581	ppbv	99
16) 1,3-Butadiene	1.606	39	76902	9.600	ppbv	97
17) tert-Butyl alcohol	2.036	59	210170	8.911	ppbv	98
18) 1,1-Dichloroethene	2.030	96	67377	10.487	ppbv	94
19) Isopropyl Alcohol	1.884	45	84553	8.327	ppbv #	86
20) Methylene Chloride	2.059	84	60771	11.604	ppbv	96
21) Allyl Chloride	2.091	41	105856	8.756	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	75565	10.291	ppbv	94
23) Vinyl Acetate	2.457	43	204427	9.424	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	146480	10.334	ppbv	98
25) Ethyl Acetate	2.829	43	373216	9.630	ppbv	99
26) Hexane	2.819	57	168150	9.897	ppbv	98
27) Carbon Disulfide	2.146	76	188702	10.878	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	84588	10.142	ppbv	96
29) Chloroform	2.842	83	280385	11.610	ppbv	97
30) Cyclohexane	3.845	84	138616	9.731	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	166393	9.853	ppbv	96
32) 1,1,1-Trichloroethane	3.360	97	280239	10.886	ppbv	99
34) 2-Butanone	2.551	43	234600	10.392	ppbv	100
35) Carbon Tetrachloride	3.752	117	294900	12.149	ppbv	98
36) Benzene	3.648	78	339149	11.074	ppbv	99
37) 1,2-Dichloroethane	3.211	62	209977	11.721	ppbv	98
38) Trichloroethene	4.535	130	135509	11.309	ppbv	98
39) 1,2-Dichloropropane	4.302	63	121360	10.827	ppbv	87
40) 1,4-Dioxane	4.564	88	44522	8.836	ppbv #	98
41) Tetrahydrofuran	3.046	42	120028	9.628	ppbv	98
42) Bromodichloromethane	4.477	83	299904	12.136	ppbv	99
43) Methyl Methacrylate	4.865	69	152174	9.361	ppbv	98
44) 2,2,4-Trimethylpentane	4.629	57	573790	10.909	ppbv	99
45) t-1,3-Dichloropropene	6.402	75	117128	7.729	ppbv	100

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	146255m	8.219	ppbv	
47) 1,1,2-Trichloroethane	6.564	97	135385	11.381	ppbv	95
48) Dibromochloromethane	7.370	129	240386	11.753	ppbv	99
49) Bromoform	9.471	173	217719	12.018	ppbv	98
50) 4-Methyl-2-Pentanone	5.729	43	310023	9.749	ppbv	97
51) 2-Hexanone	7.419	43	219906	8.905	ppbv #	99
52) Tetrachloroethene	8.212	164	123188	10.813	ppbv	98
53) Toluene	6.920	91	368638	10.165	ppbv	100
54) 1,2-Dibromoethane	7.636	107	185272	10.583	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.914	131	231860	12.819	ppbv	97
57) Chlorobenzene	8.911	112	301763	11.943	ppbv	95
58) Ethyl Benzene	9.344	91	527984	11.146	ppbv	95
59) m/p-Xylene	9.522	91	897418m	23.631	ppbv	
60) o-Xylene	9.953	91	447628	11.799	ppbv	99
61) Styrene	9.859	104	167047	10.061	ppbv	99
62) Isopropylbenzene	10.529	105	797107	11.744	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.950	83	290145	12.020	ppbv	99
64) n-propylbenzene	10.979	120	205431	11.779	ppbv	99
65) tert-Butylbenzene	11.523	119	694372	11.455	ppbv	100
66) Benzyl Chloride	11.607	91	30971	5.035	ppbv	98
67) sec-Butylbenzene	11.759	105	982704	11.615	ppbv	99
69) p-Isopropyltoluene	11.918	119	812059	11.330	ppbv	99
70) n-Butylbenzene	12.274	91	780968	11.231	ppbv	99
71) 2-Chlorotoluene	10.892	91	588943	11.289	ppbv	99
72) 4-Ethyltoluene	11.118	105	539530	11.678	ppbv	99
73) 1,3,5-Trimethylbenzene	11.196	105	445981	11.503	ppbv	97
74) 1,2,4-Trimethylbenzene	11.529	105	499268	11.800	ppbv	91
75) 1,3-Dichlorobenzene	11.597	146	298569	12.092	ppbv	98
76) 1,4-Dichlorobenzene	11.662	146	298168	12.074	ppbv	99
77) 1,2-Dichlorobenzene	11.937	146	286499	12.068	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	220765	11.143	ppbv	99
79) Naphthalene	13.507	128	403341	10.733	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	91763	9.302	ppbv	97
81) 1,2,4-Trichlorobenzene	13.432	180	202078	12.024	ppbv	99

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

