

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042552.D
 Acq On : 20 May 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/21/2025
 Supervised By : Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:29:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	119762	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398318	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	350622	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 293707 10.467 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	309546	13.821	ppbv	100
3) Chlorodifluoromethane	1.476	51	256269	13.891	ppbv	99
4) Chloromethane	1.534	50	99758	13.826	ppbv	97
5) Vinyl Chloride	1.583	62	107777	13.549	ppbv	98
6) Bromomethane	1.670	94	63936	13.971	ppbv	99
7) Chloroethane	1.706	64	44036	13.767	ppbv	96
8) Dichlorotetrafluoroethane	1.557	85	264262	13.929	ppbv	99
9) Propene	1.486	41	93521	14.583	ppbv	98
10) Heptane	4.988	43	267463	15.831	ppbv	98
11) Trichlorofluoromethane	1.881	101	324485	13.876	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.143	101	265579	14.089	ppbv	99
13) Ethanol	1.722	45	9983	10.739	ppbv	99
14) Bromoethene	1.784	108	100643	14.132	ppbv	97
15) Acetone	1.835	43	194590	11.660	ppbv	100
16) 1,3-Butadiene	1.609	39	91991	13.577	ppbv	99
17) tert-Butyl alcohol	2.043	59	264159	13.696	ppbv	99
18) 1,1-Dichloroethene	2.036	96	118442	13.904	ppbv	96
19) Isopropyl Alcohol	1.887	45	129146	13.608	ppbv	98
20) Methylene Chloride	2.065	84	98942	12.244	ppbv	96
21) Allyl Chloride	2.098	41	153457	14.355	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	133838	14.154	ppbv	92
23) Vinyl Acetate	2.467	43	286064	14.765	ppbv	99
24) 1,1-Dichloroethane	2.412	63	229874	14.182	ppbv	99
25) Ethyl Acetate	2.839	43	478689	14.837	ppbv	100
26) Hexane	2.829	57	225840	15.483	ppbv	97
27) Carbon Disulfide	2.153	76	309978	14.671	ppbv	96
28) Methyl tert-Butyl Ether	2.444	73	139514	14.194	ppbv	99
29) Chloroform	2.852	83	388270	14.075	ppbv	99
30) Cyclohexane	3.862	84	201208	15.945	ppbv	99
31) cis-1,2-Dichloroethene	2.725	61	233868	14.582	ppbv	96
32) 1,1,1-Trichloroethane	3.373	97	410281	14.554	ppbv	99
34) 2-Butanone	2.560	43	308266	14.579	ppbv	98
35) Carbon Tetrachloride	3.768	117	438834	14.454	ppbv	99
36) Benzene	3.661	78	479980	14.890	ppbv	97
37) 1,2-Dichloroethane	3.224	62	285683	14.505	ppbv	99
38) Trichloroethene	4.557	130	216443	14.713	ppbv	96
39) 1,2-Dichloropropane	4.324	63	165746	14.650	ppbv	97
40) 1,4-Dioxane	4.587	88	77951	15.315	ppbv #	97
41) Tetrahydrofuran	3.056	42	167583	16.258	ppbv	99
42) Bromodichloromethane	4.496	83	422662	15.213	ppbv	98
43) Methyl Methacrylate	4.888	69	183189	16.781	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	764008	15.505	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	235366	16.900	ppbv	99

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	281873	16.676	ppbv	97
47) 1,1,2-Trichloroethane	6.593	97	197212	14.551	ppbv	97
48) Dibromochloromethane	7.396	129	362289	15.445	ppbv	100
49) Bromoform	9.490	173	316905	15.830	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	412824	16.305	ppbv	99
51) 2-Hexanone	7.444	43	334784	18.003	ppbv	99
52) Tetrachloroethene	8.234	164	184921	14.711	ppbv	97
53) Toluene	6.943	91	568692	16.505	ppbv	99
54) 1,2-Dibromoethane	7.661	107	305844	15.517	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	274477	14.683	ppbv	99
57) Chlorobenzene	8.930	112	455831	14.595	ppbv	100
58) Ethyl Benzene	9.364	91	786590	17.137	ppbv	99
59) m/p-Xylene	9.558	91	1304200m	33.312	ppbv	
60) o-Xylene	9.969	91	658622	16.994	ppbv	99
61) Styrene	9.878	104	283617	19.086	ppbv	98
62) Isopropylbenzene	10.545	105	970711	16.342	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	395110	15.311	ppbv	99
64) n-propylbenzene	10.995	120	251118	16.972	ppbv	98
65) tert-Butylbenzene	11.539	119	888078	16.622	ppbv	99
66) Benzyl Chloride	11.620	91	119686	17.905	ppbv	100
67) sec-Butylbenzene	11.772	105	1200845	15.923	ppbv	99
69) p-Isopropyltoluene	11.930	119	1051945	16.890	ppbv	99
70) n-Butylbenzene	12.287	91	1020679	17.345	ppbv	99
71) 2-Chlorotoluene	10.908	91	731158	17.103	ppbv	99
72) 4-Ethyltoluene	11.131	105	825454	17.217	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	698986	16.853	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	784348	15.683	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	473288	15.334	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	475904	15.877	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	453934	14.926	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	352631	14.038	ppbv	100
79) Naphthalene	13.516	128	738639	19.731	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	456676	23.660	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	399239	17.736	ppbv	99

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

Manual Integrations APPROVED

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
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Response via : Initial Calibration

