

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042748.D
 Acq On : 23 Jul 2025 09:34
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	158575	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	457804	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410740	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 330476 10.160 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	43675	2.083	ppbv	98
3) Chlorodifluoromethane	1.473	51	56214	2.058	ppbv	99
4) Chloromethane	1.531	50	16834	1.985	ppbv	100
5) Vinyl Chloride	1.576	62	15384	1.836	ppbv	92
6) Bromomethane	1.664	94	5754	1.776	ppbv	83
7) Chloroethane	1.703	64	6001	1.853	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	35629	2.066	ppbv	100
9) Propene	1.483	41	21592	2.175	ppbv	97
10) Heptane	4.965	43	56442m	2.114	ppbv	
11) Trichlorofluoromethane	1.874	101	44770	2.072	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	33910	2.065	ppbv	99
13) Ethanol	1.719	45	2321	2.155	ppbv	78
14) Bromoethene	1.780	108	12078	2.077	ppbv #	96
15) Acetone	1.832	43	48226	2.202	ppbv	100
16) 1,3-Butadiene	1.606	39	18504	1.981	ppbv	96
17) tert-Butyl alcohol	2.036	59	40135	2.032	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	14381	1.938	ppbv	93
19) Isopropyl Alcohol	1.884	45	23028	1.979	ppbv #	75
20) Methylene Chloride	2.059	84	13296	1.927	ppbv	97
21) Allyl Chloride	2.091	41	27789	2.059	ppbv	97
22) trans-1,2-Dichloroethene	2.337	96	16591m	2.081	ppbv	
23) Vinyl Acetate	2.457	43	53544	2.017	ppbv #	98
24) 1,1-Dichloroethane	2.405	63	33969	2.073	ppbv	99
25) Ethyl Acetate	2.832	43	101853	2.101	ppbv	99
26) Hexane	2.822	57	45446	2.137	ppbv	99
27) Carbon Disulfide	2.146	76	36945	2.030	ppbv #	36
28) Methyl tert-Butyl Ether	2.437	73	20603	2.051	ppbv	96
29) Chloroform	2.842	83	67755	2.062	ppbv	97
30) Cyclohexane	3.845	84	38095m	2.113	ppbv	
31) cis-1,2-Dichloroethene	2.716	61	44860	2.053	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	67608	1.976	ppbv	98
34) 2-Butanone	2.551	43	69674	2.149	ppbv	99
35) Carbon Tetrachloride	3.755	117	67338	1.979	ppbv	97
36) Benzene	3.648	78	91141	2.101	ppbv	94
37) 1,2-Dichloroethane	3.211	62	53482	2.046	ppbv	98
38) Trichloroethene	4.538	130	40713	1.946	ppbv	90
39) 1,2-Dichloropropane	4.305	63	33225	2.075	ppbv	94
40) 1,4-Dioxane	4.583	88	15890m	2.104	ppbv	
41) Tetrahydrofuran	3.052	42	33618	2.064	ppbv	94
42) Bromodichloromethane	4.480	83	69093	2.028	ppbv	94
43) Methyl Methacrylate	4.871	69	30336	1.967	ppbv	95
44) 2,2,4-Trimethylpentane	4.632	57	149588	2.115	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	34331m	1.984	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	43845m	2.000	ppbv	
47) 1,1,2-Trichloroethane	6.567	97	35222m	2.063	ppbv	
48) Dibromochloromethane	7.380	129	54906	2.026	ppbv	96
49) Bromoform	9.477	173	47340	2.003	ppbv	96
50) 4-Methyl-2-Pentanone	5.748	43	87566m	2.120	ppbv	
51) 2-Hexanone	7.431	43	68093	2.157	ppbv #	99
52) Tetrachloroethene	8.215	164	34568	1.917	ppbv	94
53) Toluene	6.923	91	98346	2.111	ppbv	100
54) 1,2-Dibromoethane	7.645	107	49346	2.042	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.920	131	44409	2.079	ppbv	92
57) Chlorobenzene	8.914	112	83503	2.101	ppbv #	92
58) Ethyl Benzene	9.348	91	143251	2.208	ppbv	97
59) m/p-Xylene	9.545	91	222465m	4.290	ppbv	
60) o-Xylene	9.956	91	113462	2.190	ppbv	99
61) Styrene	9.865	104	45351	2.081	ppbv	100
62) Isopropylbenzene	10.535	105	167108	2.187	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	65928	1.954	ppbv	100
64) n-propylbenzene	10.982	120	43789	2.198	ppbv	98
65) tert-Butylbenzene	11.526	119	151081	2.226	ppbv	98
66) Benzyl Chloride	11.610	91	10485	1.882	ppbv	98
67) sec-Butylbenzene	11.762	105	212925	2.206	ppbv	99
69) p-Isopropyltoluene	11.921	119	175553	2.230	ppbv	99
70) n-Butylbenzene	12.277	91	171675	2.258	ppbv	99
71) 2-Chlorotoluene	10.898	91	125039	2.134	ppbv	98
72) 4-Ethyltoluene	11.121	105	134097	2.168	ppbv	98
73) 1,3,5-Trimethylbenzene	11.199	105	108055	2.122	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	122295	2.201	ppbv	95
75) 1,3-Dichlorobenzene	11.600	146	85254	2.188	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	83440	2.189	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	82311	2.150	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	78291	2.259	ppbv	99
79) Naphthalene	13.510	128	79191	1.690	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	5851	1.298	ppbv	90
81) 1,2,4-Trichlorobenzene	13.435	180	51515	1.888	ppbv	99

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

