

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043035.D
 Acq On : 02 Oct 2025 12:02
 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 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 02:10:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 02:03:14 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	177300	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.942	114	517146	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.865	117	425928	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 308574 10.057 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	15897	0.532	ppbv	97
3) Chlorodifluoromethane	1.473	51	14910	0.516	ppbv	96
4) Chloromethane	1.531	50	5479	0.502	ppbv	98
5) Vinyl Chloride	1.576	62	5074	0.490	ppbv	95
6) Bromomethane	1.664	94	2578	0.554	ppbv	95
7) Chloroethane	1.699	64	2234	0.517	ppbv	89
8) Dichlorotetrafluoroethane	1.551	85	12891	0.526	ppbv	99
9) Propene	1.483	41	6301	0.541	ppbv	97
10) Heptane	4.959	43	12261	0.427	ppbv	98
11) Trichlorofluoromethane	1.871	101	15460	0.503	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.133	101	12668	0.524	ppbv	99
13) Ethanol	1.716	45	835m	0.707	ppbv	
14) Bromoethene	1.777	108	4504	0.519	ppbv #	94
15) Acetone	1.832	43	14038	0.565	ppbv	96
16) 1,3-Butadiene	1.606	39	5688	0.556	ppbv	98
17) tert-Butyl alcohol	2.036	59	13561	0.516	ppbv #	92
18) 1,1-Dichloroethene	2.030	96	5445	0.514	ppbv	88
19) Isopropyl Alcohol	1.881	45	6542	0.550	ppbv #	31
20) Methylene Chloride	2.055	84	7176	0.662	ppbv	96
21) Allyl Chloride	2.091	41	8204	0.516	ppbv	98
22) trans-1,2-Dichloroethene	2.334	96	6132	0.509	ppbv	96
23) Vinyl Acetate	2.454	43	3538	0.671	ppbv #	91
24) 1,1-Dichloroethane	2.402	63	12094	0.530	ppbv	97
25) Ethyl Acetate	2.826	43	29195	0.469	ppbv	98
26) Hexane	2.816	57	11374	0.475	ppbv	94
27) Carbon Disulfide	2.143	76	14301	0.506	ppbv #	58
28) Methyl tert-Butyl Ether	2.431	73	8280	0.552	ppbv	100
29) Chloroform	2.839	83	20555	0.503	ppbv	98
30) Cyclohexane	3.845	84	8774	0.446	ppbv	94
31) cis-1,2-Dichloroethene	2.709	61	11947	0.485	ppbv	96
32) 1,1,1-Trichloroethane	3.357	97	18993	0.478	ppbv	97
34) 2-Butanone	2.551	43	17703	0.505	ppbv	100
35) Carbon Tetrachloride	3.748	117	21027	0.494	ppbv	98
36) Benzene	3.641	78	24552	0.497	ppbv	98
37) 1,2-Dichloroethane	3.208	62	15541	0.531	ppbv	99
38) Trichloroethene	4.535	130	10581	0.514	ppbv	90
39) 1,2-Dichloropropane	4.298	63	9393	0.513	ppbv	87
40) 1,4-Dioxane	4.580	88	3633m	0.463	ppbv	
41) Tetrahydrofuran	3.046	42	8215	0.453	ppbv	97
42) Bromodichloromethane	4.470	83	20289	0.491	ppbv	91
43) Methyl Methacrylate	4.858	69	7069m	0.431	ppbv	
44) 2,2,4-Trimethylpentane	4.622	57	35845	0.452	ppbv	93
45) t-1,3-Dichloropropene	6.393	75	6527m	0.439	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.574	75	9849m	0.467	ppbv	
47) 1,1,2-Trichloroethane	6.554	97	10443m	0.513	ppbv	
48) Dibromochloromethane	7.370	129	16456	0.495	ppbv	97
49) Bromoform	9.467	173	12720	0.458	ppbv	98
50) 4-Methyl-2-Pentanone	5.739	43	17913m	0.419	ppbv	
51) 2-Hexanone	7.431	43	10960m	0.361	ppbv	
52) Tetrachloroethene	8.211	164	9020	0.490	ppbv	95
53) Toluene	6.914	91	20668	0.414	ppbv	98
54) 1,2-Dibromoethane	7.632	107	11508	0.477	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.907	131	13550	0.522	ppbv #	1
57) Chlorobenzene	8.904	112	23267	0.517	ppbv #	93
58) Ethyl Benzene	9.344	91	26120	0.396	ppbv	95
59) m/p-Xylene	9.535	91	43040m	0.773	ppbv	
60) o-Xylene	9.953	91	21624	0.390	ppbv	97
61) Styrene	9.859	104	8323	0.358	ppbv	99
62) Isopropylbenzene	10.526	105	36604	0.430	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.950	83	19863	0.497	ppbv	99
64) n-propylbenzene	10.976	120	8445	0.388	ppbv	93
65) tert-Butylbenzene	11.523	119	28268	0.373	ppbv	96
66) Benzyl Chloride	11.607	91	1282	0.437	ppbv #	92
67) sec-Butylbenzene	11.759	105	42587	0.403	ppbv	98
69) p-Isopropyltoluene	11.917	119	31837	0.370	ppbv	99
70) n-Butylbenzene	12.273	91	27814	0.336	ppbv	96
71) 2-Chlorotoluene	10.891	91	24562	0.399	ppbv	99
72) 4-Ethyltoluene	11.115	105	24162	0.366	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.192	105	21772	0.381	ppbv	98
74) 1,2,4-Trimethylbenzene	11.526	105	23834	0.370	ppbv	94
75) 1,3-Dichlorobenzene	11.594	146	19501	0.465	ppbv	98
76) 1,4-Dichlorobenzene	11.662	146	18048	0.452	ppbv	99
77) 1,2-Dichlorobenzene	11.937	146	20622	0.494	ppbv	99
78) Hexachloro-1,3-Butadiene	13.872	225	14594	0.502	ppbv	99
79) Naphthalene	13.507	128	10812	0.436	ppbv #	93
80) Naphthalene,2-methyl-	14.452	142	3011	0.772	ppbv	99
81) 1,2,4-Trichlorobenzene	13.432	180	6620	0.539	ppbv	97

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

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