

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL093025\
 Data File : VL043021.D
 Acq On : 30 Sep 2025 10:46
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Sep 30 22:52:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL093025AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 30 22:49:34 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/01/2025
 Supervised By : Mahesh Dadoda 10/03/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	144859	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	452004	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	395860	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	303233	10.112	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	13089	0.522	ppbv	99
3) Chlorodifluoromethane	1.476	51	14408	0.537	ppbv	100
4) Chloromethane	1.534	50	4896	0.515	ppbv	99
5) Vinyl Chloride	1.580	62	4695	0.509	ppbv	91
6) Bromomethane	1.670	94	1816	0.544	ppbv	92
7) Chloroethane	1.706	64	2119	0.575	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	11092	0.543	ppbv	97
9) Propene	1.483	41	5353	0.516	ppbv	90
10) Heptane	4.981	43	12559	0.469	ppbv	99
11) Trichlorofluoromethane	1.877	101	13107	0.519	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.140	101	10313	0.515	ppbv	94
13) Ethanol	1.722	45	1319	1.046	ppbv #	35
14) Bromoethene	1.780	108	3563	0.477	ppbv #	81
15) Acetone	1.835	43	13227	0.640	ppbv	94
16) 1,3-Butadiene	1.609	39	4822	0.551	ppbv	84
17) tert-Butyl alcohol	2.042	59	12353	0.535	ppbv #	94
18) 1,1-Dichloroethene	2.033	96	4870	0.541	ppbv	92
19) Isopropyl Alcohol	1.887	45	7110	0.585	ppbv #	38
20) Methylene Chloride	2.062	84	10844	0.915	ppbv	91
21) Allyl Chloride	2.097	41	7136	0.511	ppbv	86
22) trans-1,2-Dichloroethene	2.340	96	5417	0.531	ppbv	90
23) Vinyl Acetate	2.460	43	14905	0.536	ppbv #	93
24) 1,1-Dichloroethane	2.408	63	9965	0.519	ppbv	96
25) Ethyl Acetate	2.832	43	30656	0.582	ppbv	98
26) Hexane	2.826	57	19954	0.728	ppbv #	75
27) Carbon Disulfide	2.149	76	12790	0.531	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	6741	0.503	ppbv	92
29) Chloroform	2.848	83	17528	0.514	ppbv	95
30) Cyclohexane	3.855	84	9082	0.481	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	11681	0.525	ppbv	94
32) 1,1,1-Trichloroethane	3.366	97	17179	0.497	ppbv	98
34) 2-Butanone	2.557	43	16839	0.529	ppbv	99
35) Carbon Tetrachloride	3.761	117	17919	0.489	ppbv	88
36) Benzene	3.654	78	23565	0.520	ppbv	96
37) 1,2-Dichloroethane	3.214	62	13376	0.517	ppbv	97
38) Trichloroethene	4.548	130	11865	0.512	ppbv	93
39) 1,2-Dichloropropane	4.315	63	8432	0.507	ppbv	92
40) 1,4-Dioxane	4.603	88	3688m	0.519	ppbv	
41) Tetrahydrofuran	3.059	42	8166	0.482	ppbv	99
42) Bromodichloromethane	4.489	83	18250	0.508	ppbv	90
43) Methyl Methacrylate	4.881	69	7616	0.478	ppbv	92
44) 2,2,4-Trimethylpentane	4.638	57	35837	0.480	ppbv	95
45) t-1,3-Dichloropropene	6.415	75	8074	0.446	ppbv #	87

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	11296m	0.478	ppbv	
47) 1,1,2-Trichloroethane	6.583	97	9280	0.526	ppbv	89
48) Dibromochloromethane	7.380	129	14716	0.484	ppbv	97
49) Bromoform	9.483	173	12112	0.469	ppbv	97
50) 4-Methyl-2-Pentanone	5.761	43	17711m	0.437	ppbv	
51) 2-Hexanone	7.438	43	12343	0.412	ppbv #	96
52) Tetrachloroethene	8.228	164	8429m	0.467	ppbv	
53) Toluene	6.930	91	23020	0.456	ppbv	96
54) 1,2-Dibromoethane	7.655	107	12116	0.492	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.924	131	11805	0.526	ppbv #	1
57) Chlorobenzene	8.924	112	21329	0.523	ppbv #	94
58) Ethyl Benzene	9.354	91	29739	0.443	ppbv	99
59) m/p-Xylene	9.551	91	48021m	0.890	ppbv	
60) o-Xylene	9.963	91	23925	0.446	ppbv	99
61) Styrene	9.872	104	9485	0.418	ppbv	98
62) Isopropylbenzene	10.539	105	36770	0.460	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	14892	0.514	ppbv	99
64) n-propylbenzene	10.989	120	9205	0.442	ppbv	97
65) tert-Butylbenzene	11.529	119	32248	0.446	ppbv	99
66) Benzyl Chloride	11.613	91	2340	0.405	ppbv #	91
67) sec-Butylbenzene	11.765	105	45774	0.454	ppbv	98
69) p-Isopropyltoluene	11.924	119	36087	0.430	ppbv	96
70) n-Butylbenzene	12.280	91	32792	0.404	ppbv	97
71) 2-Chlorotoluene	10.901	91	28122	0.472	ppbv	99
72) 4-Ethyltoluene	11.124	105	27062	0.410	ppbv #	96
73) 1,3,5-Trimethylbenzene	11.202	105	23943	0.430	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	28079	0.447	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	20274	0.505	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	19360	0.494	ppbv	95
77) 1,2-Dichlorobenzene	11.943	146	20202	0.515	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	16700	0.533	ppbv	98
79) Naphthalene	13.510	128	17144	0.346	ppbv	98
80) Naphthalene,2-methyl-	14.461	142	3775	0.294	ppbv	94
81) 1,2,4-Trichlorobenzene	13.439	180	10216	0.340	ppbv	94

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

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