

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL093025\
 Data File : VL043017.D
 Acq On : 30 Sep 2025 08:30
 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 10/01/2025
 Supervised By : Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 23:54:52 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 23:54:02 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	155809	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	487391	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	437801	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 333296 10.050 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	13909	0.516	ppbv	96
3) Chlorodifluoromethane	1.476	51	15108	0.526	ppbv	97
4) Chloromethane	1.534	50	5368	0.524	ppbv	100
5) Vinyl Chloride	1.583	62	4651	0.469	ppbv	95
6) Bromomethane	1.670	94	1864	0.520	ppbv	83
7) Chloroethane	1.706	64	2143	0.541	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	11243	0.512	ppbv	100
9) Propene	1.486	41	5547	0.497	ppbv	93
10) Heptane	4.981	43	13352	0.464	ppbv	97
11) Trichlorofluoromethane	1.878	101	13591	0.500	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	10968	0.509	ppbv	95
14) Bromoethene	1.784	108	4217	0.525	ppbv #	95
15) Acetone	1.839	43	13824	0.622	ppbv	92
16) 1,3-Butadiene	1.612	39	5421	0.576	ppbv	98
17) tert-Butyl alcohol	2.043	59	14709	0.593	ppbv	96
18) 1,1-Dichloroethene	2.036	96	5109	0.528	ppbv	94
19) Isopropyl Alcohol	1.887	45	7646	0.585	ppbv #	72
20) Methylene Chloride	2.062	84	10046	0.534	ppbv	96
21) Allyl Chloride	2.098	41	7884	0.525	ppbv	93
22) trans-1,2-Dichloroethene	2.344	96	5663	0.517	ppbv	98
23) Vinyl Acetate	2.463	43	16379	0.534	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	10419	0.505	ppbv	96
25) Ethyl Acetate	2.839	43	30124	0.532	ppbv	99
26) Hexane	2.826	57	18454	0.626	ppbv #	80
27) Carbon Disulfide	2.153	76	13476	0.520	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	7291	0.505	ppbv #	86
29) Chloroform	2.849	83	18387	0.501	ppbv	95
30) Cyclohexane	3.855	84	9649	0.475	ppbv	92
31) cis-1,2-Dichloroethene	2.722	61	11699	0.489	ppbv	98
32) 1,1,1-Trichloroethane	3.370	97	17760	0.478	ppbv	98
34) 2-Butanone	2.560	43	17316	0.505	ppbv	99
35) Carbon Tetrachloride	3.764	117	19034	0.481	ppbv	99
36) Benzene	3.658	78	24515	0.502	ppbv #	92
37) 1,2-Dichloroethane	3.221	62	14250	0.511	ppbv	100
38) Trichloroethene	4.548	130	12168	0.486	ppbv	92
39) 1,2-Dichloropropane	4.315	63	9342	0.521	ppbv	83
40) 1,4-Dioxane	4.603	88	3924	0.516	ppbv #	83
41) Tetrahydrofuran	3.062	42	8888	0.486	ppbv	97
42) Bromodichloromethane	4.489	83	19083	0.492	ppbv #	98
43) Methyl Methacrylate	4.884	69	7687	0.448	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	39076m	0.486	ppbv	
45) t-1,3-Dichloropropene	6.415	75	9074m	0.465	ppbv	
46) cis-1,3-Dichloropropene	5.606	75	12321m	0.484	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,1,2-Trichloroethane	6.580	97	9148m	0.481	ppbv	
48) Dibromochloromethane	7.393	129	16213	0.494	ppbv	99
49) Bromoform	9.484	173	12975	0.466	ppbv	97
50) 4-Methyl-2-Pentanone	5.765	43	21364m	0.488	ppbv	
51) 2-Hexanone	7.445	43	14633	0.453	ppbv #	95
52) Tetrachloroethene	8.225	164	9039	0.464	ppbv	92
53) Toluene	6.933	91	26144	0.480	ppbv	99
54) 1,2-Dibromoethane	7.655	107	13088	0.493	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.924	131	12010	0.484	ppbv #	1
57) Chlorobenzene	8.924	112	22360	0.495	ppbv	97
58) Ethyl Benzene	9.357	91	35069	0.473	ppbv	97
59) m/p-Xylene	9.552	91	54003m	0.904	ppbv	
60) o-Xylene	9.966	91	26941	0.454	ppbv	98
61) Styrene	9.872	104	11039	0.439	ppbv	97
62) Isopropylbenzene	10.542	105	41095	0.465	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	15583	0.489	ppbv	98
64) n-propylbenzene	10.992	120	10663	0.463	ppbv	97
65) tert-Butylbenzene	11.532	119	36952	0.462	ppbv	98
66) Benzyl Chloride	11.613	91	3023	0.474	ppbv	97
67) sec-Butylbenzene	11.769	105	53153	0.476	ppbv	97
69) p-Isopropyltoluene	11.927	119	41409	0.446	ppbv	99
70) n-Butylbenzene	12.283	91	38473	0.429	ppbv	95
71) 2-Chlorotoluene	10.901	91	30635	0.465	ppbv	99
72) 4-Ethyltoluene	11.128	105	32889	0.451	ppbv	98
73) 1,3,5-Trimethylbenzene	11.206	105	28249	0.459	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	31726	0.457	ppbv	93
75) 1,3-Dichlorobenzene	11.607	146	21220	0.478	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	20481	0.472	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	21043	0.486	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	18149	0.524	ppbv	97
79) Naphthalene	13.513	128	23068m	0.421	ppbv	
80) Naphthalene,2-methyl-	14.462	142	5489m	0.387	ppbv	
81) 1,2,4-Trichlorobenzene	13.439	180	12539	0.377	ppbv	98

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

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