

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100725\
 Data File : VX048055.D
 Acq On : 07 Oct 2025 18:03
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/08/2025
 Supervised By : Mahesh Dadoda 10/09/2025

Quant Time: Oct 08 02:19:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100725W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 08 02:15:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.885	128	22167m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	151477	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.037	117	137990	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.940	65	68938	36.056	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 120.200%#			
60) 4-Bromofluorobenzene	11.061	95	68191	29.383	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.933%			
63) Toluene-d8	8.635	98	183291	29.772	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.233%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	204697	134.513	ug/l	99
3) Chloromethane	1.301	50	211536	132.758	ug/l	97
4) Vinyl Chloride	1.380	62	220471	141.981	ug/l	93
5) Bromomethane	1.612	94	110850m	121.486	ug/l	
6) Chloroethane	1.691	64	134669	145.922	ug/l	98
7) Trichlorofluoromethane	1.892	101	302938	138.357	ug/l	98
8) Diethyl Ether	2.136	74	116001	146.692	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	168044	121.670	ug/l	99
10) 1,1-Dichloroethene	2.325	96	177501	127.417	ug/l	95
11) Methyl Iodide	2.459	142	267244m	147.407	ug/l	
12) Methyl Acetate	2.703	43	204668	126.803	ug/l	100
13) Acrolein	2.239	56	178640	901.090	ug/l	98
14) Acrylonitrile	3.056	53	482069	657.594	ug/l	99
15) Acetone	2.374	58	116210	683.772	ug/l	95
16) Carbon Disulfide	2.514	76	543517	137.112	ug/l	99
17) Allyl chloride	2.666	41	329761	131.116	ug/l	99
18) Methylene Chloride	2.788	84	207359	132.792	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	185317	126.661	ug/l	98
20) Diisopropyl ether	3.751	45	655594	133.378	ug/l	96
21) 1,1-Dichloroethane	3.605	63	356764	128.806	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	220169	130.402	ug/l #	87
23) tert-Butyl Alcohol	2.947	59	117389m	748.530	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	607836	138.391	ug/l	99
25) Chloroform	5.087	83	357121	125.638	ug/l	98
26) Cyclohexane	5.464	56	291323	119.400	ug/l #	96
29) 1,1-Dichloropropene	5.684	75	240625	103.118	ug/l	98
30) 2-Butanone	4.538	43	582206	546.400	ug/l	100
31) 2,2-Dichloropropane	4.471	77	265113	121.892	ug/l #	90
32) 1,1,1-Trichloroethane	5.379	97	304665	104.370	ug/l	98
33) Carbon Tetrachloride	5.666	117	250139m	99.577	ug/l	
34) Benzene	6.025	78	751326	107.370	ug/l	97
35) Methacrylonitrile	4.904	41	137147	104.798	ug/l	97
36) 1,2-Dichloroethane	6.074	62	275302	104.662	ug/l	98
37) Trichloroethene	7.111	130	182094	104.661	ug/l	95
38) Methylcyclohexane	7.367	83	285373	98.329	ug/l	97
39) 1,2-Dichloropropane	7.415	63	192691	109.557	ug/l	96
40) Dibromomethane	7.568	93	138715	105.362	ug/l #	62
41) Bromodichloromethane	7.806	83	289921	109.077	ug/l	100
42) Vinyl Acetate	3.715	43	2816919	589.510	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	258137	114.100	ug/l	97
44) Isopropyl Acetate	6.324	43	422598	116.886	ug/l	100
45) 1,4-Dioxane	7.647	88	51273	2290.067	ug/l #	90
46) Methyl methacrylate	7.678	41	216569	113.000	ug/l	96
47) n-amyl Acetate	10.829	43	367200	112.328	ug/l	99
48) t-1,3-Dichloropropene	8.964	75	290436	118.049	ug/l	98
49) cis-1,3-Dichloropropene	8.354	75	314201	115.554	ug/l	97
50) 1,1,2-Trichloroethane	9.135	97	176318	106.146	ug/l	98
51) Ethyl methacrylate	9.104	69	288219	114.785	ug/l	98
52) 1,3-Dichloropropane	9.293	76	307667	106.947	ug/l	100
53) Dibromochloromethane	9.506	129	205973	112.797	ug/l #	16
54) 1,2-Dibromoethane	9.592	107	186015	106.741	ug/l	99
55) 2-Chloroethyl vinyl ether	8.226	63	753191	579.989	ug/l	99
56) Bromoform	10.781	173	1959	2.056	ug/l #	1
58) 4-Methyl-2-Pentanone	8.561	43	1220989	538.285	ug/l	98
59) 2-Hexanone	9.415	43	854290	538.429	ug/l	99
61) Tetrachloroethene	9.263	164	144433	101.228	ug/l	96
62) Toluene	8.702	91	782162	105.040	ug/l	100
64) Chlorobenzene	10.061	112	499880	103.878	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.147	131	173843	106.830	ug/l #	81
66) Ethyl Benzene	10.177	91	871506	103.639	ug/l	98
67) m/p-Xylenes	10.287	106	650710	207.602	ug/l	100
68) o-Xylene	10.628	106	316229	105.259	ug/l	96
69) Styrene	10.640	104	545155	105.151	ug/l	98
70) Isopropylbenzene	10.945	105	801083	100.069	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.195	83	248606	103.805	ug/l	99
72) 1,2,3-Trichloropropane	11.220	75	228259m	112.905	ug/l	
73) Bromobenzene	11.183	156	198525	104.479	ug/l	94
74) n-propylbenzene	11.287	91	960365	100.478	ug/l	100
75) 2-Chlorotoluene	11.348	91	579009	100.474	ug/l	98
76) 1,3,5-Trimethylbenzene	11.433	105	660002	99.424	ug/l	100
77) t-1,4-Dichloro-2-butene	11.000	75	81937	119.065	ug/l	96
78) 4-Chlorotoluene	11.439	91	675960	101.307	ug/l	99
79) tert-butylbenzene	11.695	119	650986	99.271	ug/l	100
80) 1,2,4-Trimethylbenzene	11.732	105	656907	99.846	ug/l	100
81) sec-Butylbenzene	11.872	105	790429	94.534	ug/l	100
82) p-Isopropyltoluene	11.994	119	661361	96.267	ug/l	99
83) 1,3-Dichlorobenzene	11.951	146	359559	102.052	ug/l	98
84) 1,4-Dichlorobenzene	12.024	146	361991	102.049	ug/l	98
85) n-Butylbenzene	12.317	91	624238	95.184	ug/l	99
86) Hexachloroethane	12.518	117	126386	112.256	ug/l	79
87) 1,2-Dichlorobenzene	12.317	146	346669	102.190	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.920	75	50648	104.183	ug/l	98
89) 1,2,4-Trichlorobenzene	13.567	180	222037	101.179	ug/l	97
90) Hexachlorobutadiene	13.707	225	42034	46.218	ug/l #	41
91) Naphthalene	13.756	128	715110	103.252	ug/l	99
92) 1,2,3-Trichlorobenzene	13.939	180	214167	100.260	ug/l	99

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

