

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102225\
 Data File : VT019155.D
 Acq On : 22 Oct 2025 12:31
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/27/2025
 Supervised By : Mahesh Dadoda 10/27/2025

Quant Time: Oct 24 05:11:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_T\methods\624T102225W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 24 05:09:19 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.084	128	16439	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	8.582	114	107253	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.755	117	89183	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.971	65	44976	31.228	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.100%			
60) 4-Bromofluorobenzene	12.889	95	42267	30.155	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.533%			
63) Toluene-d8	10.256	98	132111	30.435	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.433%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.878	85	2736	4.857	ug/l	88
3) Chloromethane	2.113	50	5801m	5.431	ug/l	
4) Vinyl Chloride	2.201	62	6463	5.344	ug/l	99
5) Bromomethane	2.530	94	6458	6.097	ug/l	98
6) Chloroethane	2.683	64	5978	5.709	ug/l	99
7) Trichlorofluoromethane	2.982	101	11829	6.302	ug/l	92
8) Diethyl Ether	3.358	74	6248	5.407	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.693	101	4639m	6.295	ug/l	
10) 1,1-Dichloroethene	3.658	96	4287	5.807	ug/l	95
11) Methyl Iodide	3.864	142	2978	4.037	ug/l	# 12
12) Methyl Acetate	4.228	43	11036	3.781	ug/l	96
13) Acrolein	3.541	56	2488	25.271	ug/l	96
14) Acrylonitrile	4.845	53	24562	27.298	ug/l	97
15) Acetone	3.746	58	10803	33.699	ug/l	99
16) Carbon Disulfide	3.964	76	8469	6.143	ug/l	97
17) Allyl chloride	4.222	41	9501	5.414	ug/l	81
18) Methylene Chloride	4.440	84	6540	5.940	ug/l	92
19) trans-1,2-Dichloroethene	6.696	96	6089	5.361	ug/l	93
20) Diisopropyl ether	5.814	45	24788	5.549	ug/l	# 69
21) 1,1-Dichloroethane	5.703	63	12161	5.826	ug/l	# 94
22) cis-1,2-Dichloroethene	6.696	96	6089	5.361	ug/l	91
23) tert-Butyl Alcohol	4.686	59	12038m	30.538	ug/l	
24) Methyl tert-Butyl Ether	4.904	73	24242m	5.459	ug/l	
25) Chloroform	7.277	83	10907m	5.712	ug/l	
26) Cyclohexane	7.571	56	7772	6.345	ug/l	# 99
29) 1,1-Dichloropropene	7.712	75	6475	5.769	ug/l	93
30) 2-Butanone	6.707	43	40371	29.184	ug/l	# 97
31) 2,2-Dichloropropane	6.690	77	8413	5.120	ug/l	# 85
32) 1,1,1-Trichloroethane	7.477	97	7702	5.447	ug/l	# 73
33) Carbon Tetrachloride	7.700	117	4294	4.740	ug/l	# 97
34) Benzene	7.982	78	22621	5.440	ug/l	# 36
35) Methacrylonitrile	7.048	41	5901	5.012	ug/l	99
36) 1,2-Dichloroethane	8.071	62	8231	5.340	ug/l	# 92
37) Trichloroethene	8.858	130	4306	5.629	ug/l	99
38) Methylcyclohexane	9.122	83	7109	6.290	ug/l	96
39) 1,2-Dichloropropane	9.169	63	6063	5.568	ug/l	# 90
40) Dibromomethane	9.269	93	3383	5.038	ug/l	# 76
41) Bromodichloromethane	10.791	83	4465	5.177	ug/l	# 87
42) Vinyl Acetate	5.750	43	91905	27.079	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.801	43	11024	4.848	ug/l #	83
44) Isopropyl Acetate	8.123	43	19235	5.375	ug/l	99
45) 1,4-Dioxane	9.263	88	3195	102.904	ug/l #	76
46) Methyl methacrylate	9.257	41	7980	4.987	ug/l	78
47) n-amyl Acetate	12.501	43	12603	5.233	ug/l	97
48) t-1,3-Dichloropropene	10.585	75	7873	5.031	ug/l	99
49) cis-1,3-Dichloropropene	9.974	75	8535	5.192	ug/l	90
50) 1,1,2-Trichloroethane	10.797	97	5426	5.494	ug/l	94
51) Ethyl methacrylate	10.638	69	9129	4.933	ug/l	91
52) 1,3-Dichloropropane	10.950	76	9343	5.297	ug/l	95
53) Dibromochloromethane	11.179	129	4575	4.963	ug/l #	1
54) 1,2-Dibromoethane	11.302	107	4863	5.294	ug/l	93
55) 2-Chloroethyl vinyl ether	9.810	63	16665	30.873	ug/l	98
56) Bromoform	12.577	173	2490	4.112	ug/l #	17
58) 4-Methyl-2-Pentanone	10.139	43	57249	26.212	ug/l	98
59) 2-Hexanone	10.139	43	57249	26.212	ug/l #	83
61) Tetrachloroethene	10.867	164	3420	6.067	ug/l	94
62) Toluene	10.327	91	22525	5.639	ug/l	100
64) Chlorobenzene	11.790	112	13813	5.661	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.866	131	4110	5.171	ug/l	90
66) Ethyl Benzene	11.872	91	24406	5.622	ug/l	98
67) m/p-Xylenes	11.996	106	18149	11.246	ug/l	96
68) o-Xylene	12.372	106	9321	5.596	ug/l	94
69) Styrene	12.383	104	16131	5.394	ug/l	96
70) Isopropylbenzene	12.712	105	22804	5.581	ug/l	100
71) 1,1,2,2-Tetrachloroethane	13.000	83	8622	5.378	ug/l	97
72) 1,2,3-Trichloropropane	13.059	75	6687m	5.292	ug/l	
73) Bromobenzene	13.035	156	5310	5.526	ug/l	64
74) n-propylbenzene	13.100	91	28614	5.808	ug/l	97
75) 2-Chlorotoluene	13.312	91	16618	5.510	ug/l	99
76) 1,3,5-Trimethylbenzene	13.265	105	18844	5.622	ug/l	95
77) t-1,4-Dichloro-2-butene	12.771	75	2661m	4.628	ug/l	
78) 4-Chlorotoluene	13.200	91	16928	5.690	ug/l	94
79) tert-butylbenzene	13.558	119	17137	5.756	ug/l	95
80) 1,2,4-Trimethylbenzene	13.611	105	19330	5.527	ug/l	97
81) sec-Butylbenzene	13.764	105	25152	5.863	ug/l	99
82) p-Isopropyltoluene	13.893	119	20149	5.646	ug/l	98
83) 1,3-Dichlorobenzene	13.893	146	10350	5.493	ug/l	98
84) 1,4-Dichlorobenzene	13.987	146	10740	5.661	ug/l	96
85) n-Butylbenzene	14.263	91	18687	5.721	ug/l	97
86) Hexachloroethane	14.569	117	2149	4.493	ug/l #	1
87) 1,2-Dichlorobenzene	14.316	146	10279	5.460	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	15.016	75	1885	5.352	ug/l #	86
89) 1,2,4-Trichlorobenzene	15.809	180	6217	5.425	ug/l	98
90) Hexachlorobutadiene	15.926	225	2240	5.895	ug/l	81
91) Naphthalene	16.103	128	23738	5.359	ug/l #	93
92) 1,2,3-Trichlorobenzene	16.332	180	6363m	5.501	ug/l	

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

