

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102225\
 Data File : VT019158.D
 Acq On : 22 Oct 2025 14:58
 Operator : SY/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/24/2025
 Supervised By : Mahesh Dadoda 10/27/2025

Quant Time: Oct 24 05:13:00 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	7.083	128	21644	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	8.582	114	135115	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.755	117	112485	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.971	65	56208	29.642	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.800%	
60) 4-Bromofluorobenzene	12.889	95	54023	30.558	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.867%	
63) Toluene-d8	10.256	98	165318	30.195	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.667%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.878	85	27792	37.474	ug/l	100
3) Chloromethane	2.113	50	62781	44.645	ug/l	98
4) Vinyl Chloride	2.201	62	74992	47.095	ug/l	98
5) Bromomethane	2.542	94	35066	25.146	ug/l	89
6) Chloroethane	2.671	64	57818	41.938	ug/l	92
7) Trichlorofluoromethane	2.982	101	112750	45.625	ug/l	97
8) Diethyl Ether	3.364	74	73919	48.582	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.687	101	43094	44.416	ug/l	96
10) 1,1-Dichloroethene	3.664	96	44059	45.331	ug/l	98
11) Methyl Iodide	3.869	142	51053	52.570	ug/l	# 8
12) Methyl Acetate	4.228	43	204102	53.104	ug/l	98
13) Acrolein	3.546	56	37375	288.328	ug/l	99
14) Acrylonitrile	4.857	53	283212	239.065	ug/l	99
15) Acetone	3.746	58	91939	217.824	ug/l	100
16) Carbon Disulfide	3.963	76	85071	46.863	ug/l	99
17) Allyl chloride	4.216	41	118049	51.094	ug/l	92
18) Methylene Chloride	4.434	84	65638	45.280	ug/l	98
19) trans-1,2-Dichloroethene	6.696	96	72629	48.569	ug/l	98
20) Diisopropyl ether	5.808	45	288044	48.975	ug/l	# 70
21) 1,1-Dichloroethane	5.703	63	130814	47.600	ug/l	97
22) cis-1,2-Dichloroethene	6.696	96	72629	48.569	ug/l	95
23) tert-Butyl Alcohol	4.686	59	119235	229.733	ug/l	# 100
24) Methyl tert-Butyl Ether	4.915	73	283194	48.440	ug/l	98
25) Chloroform	7.271	83	120983	48.126	ug/l	94
26) Cyclohexane	7.571	56	73480	45.563	ug/l	# 98
29) 1,1-Dichloropropene	7.718	75	66771	47.226	ug/l	97
30) 2-Butanone	6.707	43	405453	232.659	ug/l	99
31) 2,2-Dichloropropane	6.696	77	103174	49.842	ug/l	94
32) 1,1,1-Trichloroethane	7.483	97	85809	48.174	ug/l	# 75
33) Carbon Tetrachloride	7.694	117	58645	51.385	ug/l	# 97
34) Benzene	7.982	78	251545	48.023	ug/l	# 87
35) Methacrylonitrile	7.054	41	71720	48.351	ug/l	92
36) 1,2-Dichloroethane	8.076	62	93378	48.088	ug/l	98
37) Trichloroethene	8.852	130	46007	47.744	ug/l	89
38) Methylcyclohexane	9.122	83	66235	46.521	ug/l	98
39) 1,2-Dichloropropane	9.169	63	65506	47.749	ug/l	# 89
40) Dibromomethane	9.269	93	40841	48.282	ug/l	# 74
41) Bromodichloromethane	10.791	83	52702	48.505	ug/l	# 90
42) Vinyl Acetate	5.756	43	1042435	243.807	ug/l	99

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43) Ethyl Acetate	6.807	43	145471	50.780	ug/l	99
44) Isopropyl Acetate	8.123	43	217800	48.307	ug/l	97
45) 1,4-Dioxane	9.263	88	37802	966.453	ug/l #	75
46) Methyl methacrylate	9.257	41	100361	49.783	ug/l	83
47) n-amyl Acetate	12.501	43	155067	51.110	ug/l	98
48) t-1,3-Dichloropropene	10.585	75	99101	50.267	ug/l	98
49) cis-1,3-Dichloropropene	9.974	75	102314	49.403	ug/l	97
50) 1,1,2-Trichloroethane	10.791	97	59970	48.202	ug/l #	82
51) Ethyl methacrylate	10.644	69	116190	49.833	ug/l	95
52) 1,3-Dichloropropane	10.955	76	107055	48.176	ug/l	97
53) Dibromochloromethane	11.179	129	58911	50.734	ug/l #	2
54) 1,2-Dibromoethane	11.302	107	55761	48.187	ug/l	99
55) 2-Chloroethyl vinyl ether	9.810	63	168367	247.590	ug/l	98
56) Bromoform	12.577	173	41752	54.725	ug/l #	17
58) 4-Methyl-2-Pentanone	10.139	43	681568	247.421	ug/l	98
59) 2-Hexanone	10.139	43	681568	247.421	ug/l #	83
61) Tetrachloroethene	10.873	164	33803	47.543	ug/l	92
62) Toluene	10.333	91	246143	48.855	ug/l	98
64) Chlorobenzene	11.784	112	150066	48.763	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.872	131	50307	50.185	ug/l	92
66) Ethyl Benzene	11.872	91	267564	48.865	ug/l	100
67) m/p-Xylenes	12.001	106	196356	96.466	ug/l	98
68) o-Xylene	12.371	106	102130	48.610	ug/l	96
69) Styrene	12.389	104	185483	49.173	ug/l	96
70) Isopropylbenzene	12.712	105	253686	49.226	ug/l	100
71) 1,1,2,2-Tetrachloroethane	13.000	83	99394	49.155	ug/l	98
72) 1,2,3-Trichloropropane	13.059	75	76694m	48.123	ug/l	
73) Bromobenzene	13.035	156	58211	48.034	ug/l	60
74) n-propylbenzene	13.100	91	301172	48.465	ug/l	98
75) 2-Chlorotoluene	13.312	91	190268	50.015	ug/l	99
76) 1,3,5-Trimethylbenzene	13.265	105	209165	49.472	ug/l	95
77) t-1,4-Dichloro-2-butene	12.771	75	39126	53.954	ug/l	86
78) 4-Chlorotoluene	13.200	91	184094	49.058	ug/l	93
79) tert-butylbenzene	13.564	119	180140	47.974	ug/l	94
80) 1,2,4-Trimethylbenzene	13.611	105	216711	49.127	ug/l	99
81) sec-Butylbenzene	13.764	105	263662	48.731	ug/l	99
82) p-Isopropyltoluene	13.893	119	218054	48.443	ug/l	97
83) 1,3-Dichlorobenzene	13.893	146	116336	48.950	ug/l	98
84) 1,4-Dichlorobenzene	13.987	146	117786	49.224	ug/l	98
85) n-Butylbenzene	14.263	91	206859	50.214	ug/l	98
86) Hexachloroethane	14.575	117	33443	55.440	ug/l #	1
87) 1,2-Dichlorobenzene	14.316	146	118414	49.874	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	15.021	75	22909	51.569	ug/l	97
89) 1,2,4-Trichlorobenzene	15.809	180	71859	49.717	ug/l	96
90) Hexachlorobutadiene	15.932	225	22983	47.958	ug/l	82
91) Naphthalene	16.102	128	277803	49.726	ug/l	98
92) 1,2,3-Trichlorobenzene	16.337	180	71935	49.307	ug/l	99

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

