

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102325\
 Data File : VT019163.D
 Acq On : 23 Oct 2025 9:22
 Operator : SY/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

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

Quant Time: Oct 24 06:39:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_T\methods\624T102225W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 24 06:37:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.072	128	21566	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	8.564	114	139642	30.000	ug/l	-0.01
57) Chlorobenzene-d5	11.743	117	114780	30.000	ug/l	-0.01
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	58490	30.957	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.200%	
60) 4-Bromofluorobenzene	12.877	95	53545	29.682	ug/l	-0.01
Spiked Amount	30.000	Range	63 - 112	Recovery	= 98.933%	
63) Toluene-d8	10.245	98	167906	30.055	ug/l	-0.01
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.167%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.884	85	11962	20.211	ug/l	94
3) Chloromethane	2.107	50	26222m	19.301	ug/l	
4) Vinyl Chloride	2.201	62	24954	16.435	ug/l	99
5) Bromomethane	2.542	94	22480	17.828	ug/l	91
6) Chloroethane	2.683	64	24509	18.303	ug/l	99
7) Trichlorofluoromethane	2.982	101	45219	18.364	ug/l	100
8) Diethyl Ether	3.353	74	27802	18.338	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.676	101	19710	20.388	ug/l	75
10) 1,1-Dichloroethene	3.664	96	19237	19.864	ug/l	98
11) Methyl Iodide	3.858	142	19723	20.899	ug/l	# 8
12) Methyl Acetate	4.216	43	76849	20.067	ug/l	96
13) Acrolein	3.535	56	16313	126.301	ug/l	# 68
14) Acrylonitrile	4.833	53	111923	94.818	ug/l	98
15) Acetone	3.735	58	41913	99.660	ug/l	91
16) Carbon Disulfide	3.958	76	34535	19.093	ug/l	99
17) Allyl chloride	4.216	41	40350	17.527	ug/l	92
18) Methylene Chloride	4.422	84	28345	19.624	ug/l	100
19) trans-1,2-Dichloroethene	6.684	96	29012	19.471	ug/l	96
20) Diisopropyl ether	5.791	45	117958	20.129	ug/l	# 70
21) 1,1-Dichloroethane	5.691	63	52780	19.275	ug/l	100
22) cis-1,2-Dichloroethene	6.684	96	29012	19.471	ug/l	92
23) tert-Butyl Alcohol	4.651	59	47996	92.809	ug/l	# 100
24) Methyl tert-Butyl Ether	4.898	73	115189	19.794	ug/l	97
25) Chloroform	7.254	83	49085	19.596	ug/l	93
26) Cyclohexane	7.554	56	31206	19.420	ug/l	# 97
29) 1,1-Dichloropropene	7.701	75	28163	19.274	ug/l	97
30) 2-Butanone	6.684	43	166631	92.517	ug/l	99
31) 2,2-Dichloropropane	6.678	77	42417	19.827	ug/l	95
32) 1,1,1-Trichloroethane	7.465	97	36126	19.624	ug/l	# 76
33) Carbon Tetrachloride	7.677	117	23364	19.808	ug/l	# 99
34) Benzene	7.971	78	103997	19.210	ug/l	# 82
35) Methacrylonitrile	7.042	41	29517	19.254	ug/l	98
36) 1,2-Dichloroethane	8.059	62	39596	19.730	ug/l	99
37) Trichloroethene	8.835	130	18931	19.009	ug/l	94
38) Methylcyclohexane	9.111	83	29564	20.091	ug/l	97
39) 1,2-Dichloropropane	9.158	63	27620	19.480	ug/l	93
40) Dibromomethane	9.252	93	16684	19.084	ug/l	# 75
41) Bromodichloromethane	10.779	83	21537	19.179	ug/l	# 89
42) Vinyl Acetate	5.732	43	423308	95.795	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.790	43	58275	19.683	ug/l	99
44) Isopropyl Acetate	8.106	43	89732	19.257	ug/l	97
45) 1,4-Dioxane	9.252	88	15048	372.248	ug/l #	75
46) Methyl methacrylate	9.246	41	39361	18.892	ug/l	82
47) n-amyl Acetate	12.489	43	61285	19.544	ug/l	98
48) t-1,3-Dichloropropene	10.574	75	39795	19.531	ug/l	98
49) cis-1,3-Dichloropropene	9.957	75	42209	19.720	ug/l	95
50) 1,1,2-Trichloroethane	10.779	97	25094	19.516	ug/l #	83
51) Ethyl methacrylate	10.627	69	47428	19.682	ug/l	93
52) 1,3-Dichloropropane	10.944	76	43697	19.027	ug/l	97
53) Dibromochloromethane	11.167	129	23444	19.546	ug/l #	1
54) 1,2-Dibromoethane	11.285	107	22896	19.145	ug/l	99
55) 2-Chloroethyl vinyl ether	9.798	63	59646	84.868	ug/l	98
56) Bromoform	12.560	173	15551	19.722	ug/l #	15
58) 4-Methyl-2-Pentanone	10.121	43	261102	92.889	ug/l	98
59) 2-Hexanone	10.121	43	261102	92.889	ug/l #	83
61) Tetrachloroethene	10.856	164	14568	20.080	ug/l	93
62) Toluene	10.315	91	101139	19.673	ug/l	97
64) Chlorobenzene	11.772	112	62343	19.853	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.855	131	20080	19.631	ug/l	90
66) Ethyl Benzene	11.860	91	109871	19.664	ug/l	98
67) m/p-Xylenes	11.984	106	81555	39.266	ug/l	97
68) o-Xylene	12.354	106	41005	19.126	ug/l	97
69) Styrene	12.372	104	74398	19.329	ug/l	96
70) Isopropylbenzene	12.701	105	104352	19.844	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.989	83	40028	19.400	ug/l	97
72) 1,2,3-Trichloropropane	13.047	75	33635m	22.084	ug/l	
73) Bromobenzene	13.018	156	24561	19.862	ug/l	62
74) n-propylbenzene	13.088	91	126345	19.925	ug/l	97
75) 2-Chlorotoluene	13.294	91	77567	19.982	ug/l	100
76) 1,3,5-Trimethylbenzene	13.247	105	87840	20.361	ug/l	96
77) t-1,4-Dichloro-2-butene	12.754	75	14321	19.352	ug/l	85
78) 4-Chlorotoluene	13.188	91	75344	19.676	ug/l	95
79) tert-butylbenzene	13.547	119	76345	19.925	ug/l	95
80) 1,2,4-Trimethylbenzene	13.600	105	87574	19.456	ug/l	98
81) sec-Butylbenzene	13.746	105	110537	20.021	ug/l	99
82) p-Isopropyltoluene	13.882	119	90651	19.737	ug/l	98
83) 1,3-Dichlorobenzene	13.882	146	47827	19.721	ug/l	99
84) 1,4-Dichlorobenzene	13.970	146	49184	20.143	ug/l	97
85) n-Butylbenzene	14.246	91	82148	19.542	ug/l	98
86) Hexachloroethane	14.563	117	13447	21.846	ug/l #	1
87) 1,2-Dichlorobenzene	14.305	146	47648	19.667	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	15.004	75	8883	19.596	ug/l #	70
89) 1,2,4-Trichlorobenzene	15.791	180	29236	19.823	ug/l	97
90) Hexachlorobutadiene	15.915	225	10060	20.572	ug/l	81
91) Naphthalene	16.091	128	106161	18.623	ug/l	98
92) 1,2,3-Trichlorobenzene	16.314	180	29115	19.558	ug/l	99

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

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