

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102225\
 Data File : VT019157.D
 Acq On : 22 Oct 2025 14:34
 Operator : SY/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Oct 24 05:12:20 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	7.078	128	20636	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	8.582	114	129603	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.755	117	111416	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.971	65	54340	30.056	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.200%			
60) 4-Bromofluorobenzene	12.889	95	51105	29.185	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.267%			
63) Toluene-d8	10.256	98	162836	30.027	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.100%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.884	85	10888	15.398	ug/l	92
3) Chloromethane	2.119	50	25085m	18.710	ug/l	
4) Vinyl Chloride	2.201	62	25412	16.738	ug/l	100
5) Bromomethane	2.553	94	22830	17.171	ug/l	86
6) Chloroethane	2.694	64	23644	17.988	ug/l	98
7) Trichlorofluoromethane	2.994	101	41663	17.683	ug/l	99
8) Diethyl Ether	3.358	74	26077	17.976	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.693	101	19393	20.964	ug/l	98
10) 1,1-Dichloroethene	3.670	96	19907	21.482	ug/l	95
11) Methyl Iodide	3.875	142	17194	18.570	ug/l	# 7
12) Methyl Acetate	4.228	43	70635	19.276	ug/l	100
13) Acrolein	3.546	56	14355	116.151	ug/l	97
14) Acrylonitrile	4.851	53	104924	92.895	ug/l	98
15) Acetone	3.746	58	37980	94.379	ug/l	92
16) Carbon Disulfide	3.969	76	32240	18.628	ug/l	96
17) Allyl chloride	4.222	41	38679	17.559	ug/l	86
18) Methylene Chloride	4.440	84	25743	18.626	ug/l	95
19) trans-1,2-Dichloroethene	6.702	96	26788	18.789	ug/l	93
20) Diisopropyl ether	5.809	45	102545	18.287	ug/l	# 70
21) 1,1-Dichloroethane	5.709	63	48213	18.400	ug/l	99
22) cis-1,2-Dichloroethene	6.702	96	26788	18.789	ug/l	95
23) tert-Butyl Alcohol	4.669	59	45985	92.928	ug/l	# 100
24) Methyl tert-Butyl Ether	4.910	73	103719	18.608	ug/l	98
25) Chloroform	7.266	83	43599	18.190	ug/l	90
26) Cyclohexane	7.571	56	28738	18.690	ug/l	# 98
29) 1,1-Dichloropropene	7.712	75	25209	18.588	ug/l	95
30) 2-Butanone	6.707	43	151836	90.833	ug/l	99
31) 2,2-Dichloropropane	6.696	77	36964	18.616	ug/l	# 89
32) 1,1,1-Trichloroethane	7.477	97	31516	18.446	ug/l	# 75
33) Carbon Tetrachloride	7.695	117	20656	18.869	ug/l	# 94
34) Benzene	7.982	78	92975	18.505	ug/l	# 79
35) Methacrylonitrile	7.054	41	28423	19.977	ug/l	91
36) 1,2-Dichloroethane	8.076	62	34780	18.673	ug/l	100
37) Trichloroethene	8.852	130	16981	18.371	ug/l	94
38) Methylcyclohexane	9.122	83	25555	18.712	ug/l	99
39) 1,2-Dichloropropane	9.163	63	24449	18.580	ug/l	# 90
40) Dibromomethane	9.269	93	14463	17.825	ug/l	# 69
41) Bromodichloromethane	10.791	83	19597	18.803	ug/l	# 86
42) Vinyl Acetate	5.750	43	377587	92.067	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.807	43	50789	18.483	ug/l	95
44) Isopropyl Acetate	8.118	43	79973	18.492	ug/l	98
45) 1,4-Dioxane	9.257	88	15113	402.815	ug/l #	77
46) Methyl methacrylate	9.257	41	35497	18.357	ug/l	75
47) n-amyl Acetate	12.501	43	54276	18.650	ug/l	99
48) t-1,3-Dichloropropene	10.585	75	35502	18.774	ug/l	99
49) cis-1,3-Dichloropropene	9.968	75	36589	18.419	ug/l	98
50) 1,1,2-Trichloroethane	10.791	97	22183	18.588	ug/l #	77
51) Ethyl methacrylate	10.638	69	42472	18.991	ug/l	95
52) 1,3-Dichloropropane	10.956	76	39611	18.584	ug/l	100
53) Dibromochloromethane	11.179	129	20787	18.663	ug/l #	1
54) 1,2-Dibromoethane	11.296	107	20598	18.557	ug/l	98
55) 2-Chloroethyl vinyl ether	9.810	63	53262	81.655	ug/l	97
56) Bromoform	12.583	173	13859	18.938	ug/l #	19
58) 4-Methyl-2-Pentanone	10.133	43	243805	89.354	ug/l	99
59) 2-Hexanone	10.133	43	243805	89.354	ug/l #	82
61) Tetrachloroethene	10.867	164	12984	18.437	ug/l	94
62) Toluene	10.327	91	91269	18.289	ug/l	99
64) Chlorobenzene	11.784	112	55402	18.175	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.872	131	18398	18.529	ug/l	91
66) Ethyl Benzene	11.872	91	98778	18.213	ug/l	98
67) m/p-Xylenes	11.996	106	73016	36.216	ug/l	99
68) o-Xylene	12.372	106	36750	17.659	ug/l	98
69) Styrene	12.389	104	67599	18.093	ug/l	95
70) Isopropylbenzene	12.712	105	93410	18.300	ug/l	100
71) 1,1,2,2-Tetrachloroethane	13.000	83	36908	18.428	ug/l	97
72) 1,2,3-Trichloropropane	13.059	75	28142m	17.828	ug/l	
73) Bromobenzene	13.035	156	21606	18.000	ug/l	56
74) n-propylbenzene	13.100	91	112568	18.289	ug/l	97
75) 2-Chlorotoluene	13.312	91	68644	18.217	ug/l	98
76) 1,3,5-Trimethylbenzene	13.259	105	75855	18.114	ug/l	94
77) t-1,4-Dichloro-2-butene	12.771	75	13402	18.658	ug/l	88
78) 4-Chlorotoluene	13.200	91	68030	18.303	ug/l	93
79) tert-butylbenzene	13.558	119	70986	19.086	ug/l	100
80) 1,2,4-Trimethylbenzene	13.611	105	81071	18.555	ug/l	99
81) sec-Butylbenzene	13.764	105	98904	18.455	ug/l	98
82) p-Isopropyltoluene	13.893	119	81893	18.368	ug/l	98
83) 1,3-Dichlorobenzene	13.893	146	43129	18.321	ug/l	99
84) 1,4-Dichlorobenzene	13.987	146	43478	18.344	ug/l	98
85) n-Butylbenzene	14.263	91	75764	18.568	ug/l	97
86) Hexachloroethane	14.575	117	11213	18.767	ug/l #	1
87) 1,2-Dichlorobenzene	14.316	146	43407	18.458	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	15.021	75	8088	18.381	ug/l	98
89) 1,2,4-Trichlorobenzene	15.809	180	26195	18.297	ug/l	96
90) Hexachlorobutadiene	15.938	225	9156	19.289	ug/l	82
91) Naphthalene	16.103	128	100763	18.209	ug/l	99
92) 1,2,3-Trichlorobenzene	16.338	180	26991	18.678	ug/l	97

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

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