

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102425\
 Data File : VT019172.D
 Acq On : 24 Oct 2025 9:46
 Operator : SY/MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VSTDC0020

Quant Time: Oct 25 01:39:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_T\methods\624T102225W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 24 06:05:07 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.054	128	24643	30.000	ug/l	#-0.02
28) 1,4-Difluorobenzene	8.553	114	154744	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.725	117	130375	30.000	ug/l	-0.03
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.947	65	65393	30.289	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.967%	
60) 4-Bromofluorobenzene	12.859	95	60777	29.661	ug/l	-0.03
Spiked Amount	30.000	Range	63 - 112	Recovery	= 98.867%	
63) Toluene-d8	10.233	98	186127	29.331	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	= 97.767%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.872	85	13259	19.605	ug/l	94
3) Chloromethane	2.113	50	28033m	18.058	ug/l	
4) Vinyl Chloride	2.189	62	31720	18.283	ug/l	97
5) Bromomethane	2.542	94	27702	19.226	ug/l	97
6) Chloroethane	2.677	64	25863	16.903	ug/l	99
7) Trichlorofluoromethane	2.977	101	51538	18.317	ug/l	97
8) Diethyl Ether	3.341	74	31277	18.054	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.670	101	22215	20.110	ug/l	85
10) 1,1-Dichloroethene	3.646	96	20991	18.969	ug/l	95
11) Methyl Iodide	3.852	142	20503	19.012	ug/l #	11
12) Methyl Acetate	4.199	43	87097	19.903	ug/l	95
13) Acrolein	3.523	56	16063	108.837	ug/l	99
14) Acrylonitrile	4.822	53	123583	91.623	ug/l	98
15) Acetone	3.723	58	43767	91.075	ug/l	98
16) Carbon Disulfide	3.946	76	36413	17.618	ug/l #	93
17) Allyl chloride	4.199	41	52841	20.087	ug/l	91
18) Methylene Chloride	4.410	84	30024	18.191	ug/l	94
19) trans-1,2-Dichloroethene	6.661	96	31920	18.748	ug/l	90
20) Diisopropyl ether	5.785	45	127403	19.026	ug/l #	65
21) 1,1-Dichloroethane	5.674	63	57006	18.219	ug/l	98
22) cis-1,2-Dichloroethene	6.661	96	31920	18.748	ug/l	93
23) tert-Butyl Alcohol	4.639	59	53918	91.242	ug/l #	100
24) Methyl tert-Butyl Ether	4.886	73	127191	19.128	ug/l #	82
25) Chloroform	7.242	83	54542	19.056	ug/l	95
26) Cyclohexane	7.542	56	34920	19.018	ug/l #	98
29) 1,1-Dichloropropene	7.683	75	29853	18.436	ug/l	96
30) 2-Butanone	6.672	43	180324	90.349	ug/l	99
31) 2,2-Dichloropropane	6.661	77	46925	19.793	ug/l	94
32) 1,1,1-Trichloroethane	7.448	97	39561	19.392	ug/l #	77
33) Carbon Tetrachloride	7.665	117	26248	20.081	ug/l #	95
34) Benzene	7.953	78	112988	18.834	ug/l #	80
35) Methacrylonitrile	7.025	41	34347m	20.218	ug/l	
36) 1,2-Dichloroethane	8.053	62	43003	19.336	ug/l	99
37) Trichloroethene	8.823	130	20688	18.746	ug/l	99
38) Methylcyclohexane	9.093	83	31812	19.509	ug/l	97
39) 1,2-Dichloropropane	9.140	63	29444	18.740	ug/l #	87
40) Dibromomethane	9.240	93	18370	18.962	ug/l #	75
41) Bromodichloromethane	10.768	83	23846	19.163	ug/l #	97
42) Vinyl Acetate	5.721	43	468346	95.643	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.772	43	58239	17.751	ug/l	93
44) Isopropyl Acetate	8.094	43	97187	18.821	ug/l	97
45) 1,4-Dioxane	9.234	88	15310	341.768	ug/l #	72
46) Methyl methacrylate	9.234	41	43937	19.030	ug/l	85
47) n-amyl Acetate	12.477	43	66810	19.227	ug/l	99
48) t-1,3-Dichloropropene	10.562	75	44799	19.841	ug/l	99
49) cis-1,3-Dichloropropene	9.945	75	46315	19.527	ug/l	96
50) 1,1,2-Trichloroethane	10.768	97	27171	19.069	ug/l #	78
51) Ethyl methacrylate	10.615	69	52150	19.530	ug/l	98
52) 1,3-Dichloropropane	10.926	76	48278	18.970	ug/l	99
53) Dibromochloromethane	11.150	129	26401	19.863	ug/l #	1
54) 1,2-Dibromoethane	11.273	107	25839	19.497	ug/l	99
55) 2-Chloroethyl vinyl ether	9.786	63	65232	83.758	ug/l	98
56) Bromoform	12.548	173	17996	20.596	ug/l #	16
58) 4-Methyl-2-Pentanone	10.110	43	287264	89.972	ug/l	98
59) 2-Hexanone	10.110	43	287264	89.972	ug/l #	83
61) Tetrachloroethene	10.844	164	15760	19.125	ug/l	94
62) Toluene	10.303	91	109752	18.795	ug/l	97
64) Chlorobenzene	11.755	112	65248	18.293	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.843	131	23397	20.138	ug/l	91
66) Ethyl Benzene	11.843	91	117164	18.461	ug/l	96
67) m/p-Xylenes	11.972	106	88369	37.457	ug/l	100
68) o-Xylene	12.342	106	45222	18.570	ug/l	96
69) Styrene	12.360	104	82857	18.952	ug/l	96
70) Isopropylbenzene	12.683	105	117029	19.593	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.971	83	44474	18.977	ug/l	98
72) 1,2,3-Trichloropropane	13.036	75	39694m	22.945	ug/l	
73) Bromobenzene	13.006	156	26891	19.145	ug/l	62
74) n-propylbenzene	13.077	91	137784	19.130	ug/l	98
75) 2-Chlorotoluene	13.282	91	85729	19.443	ug/l	98
76) 1,3,5-Trimethylbenzene	13.235	105	94404	19.265	ug/l	96
77) t-1,4-Dichloro-2-butene	12.742	75	16834	20.027	ug/l	87
78) 4-Chlorotoluene	13.171	91	83544	19.208	ug/l	94
79) tert-butylbenzene	13.535	119	83316m	19.143	ug/l	
80) 1,2,4-Trimethylbenzene	13.582	105	96923	18.957	ug/l	99
81) sec-Butylbenzene	13.735	105	122124	19.474	ug/l	98
82) p-Isopropyltoluene	13.864	119	101712	19.496	ug/l	98
83) 1,3-Dichlorobenzene	13.864	146	54492	19.782	ug/l	97
84) 1,4-Dichlorobenzene	13.952	146	54701	19.723	ug/l	97
85) n-Butylbenzene	14.234	91	92883	19.453	ug/l	98
86) Hexachloroethane	14.540	117	15315	21.905	ug/l #	1
87) 1,2-Dichlorobenzene	14.287	146	55283	20.089	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.992	75	10038	19.495	ug/l	98
89) 1,2,4-Trichlorobenzene	15.774	180	34116	20.365	ug/l	97
90) Hexachlorobutadiene	15.897	225	11756	21.165	ug/l	83
91) Naphthalene	16.067	128	130517	20.157	ug/l	99
92) 1,2,3-Trichlorobenzene	16.297	180	33618	19.881	ug/l	98

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

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