

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102425\
 Data File : VT019181.D
 Acq On : 24 Oct 2025 15:53
 Operator : SY/MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VSTDC0020EC

Quant Time: Oct 25 01:47:12 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	7.048	128	22916	30.000	ug/l	#-0.03
28) 1,4-Difluorobenzene	8.552	114	142341	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.725	117	118646	30.000	ug/l	-0.03
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.941	65	59392	29.582	ug/l	-0.03
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.600%		
60) 4-Bromofluorobenzene	12.859	95	55187	29.595	ug/l	-0.03
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.667%		
63) Toluene-d8	10.233	98	172222	29.823	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.400%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.872	85	11707	18.615	ug/l	96
3) Chloromethane	2.101	50	28353m	19.640	ug/l	
4) Vinyl Chloride	2.183	62	27394	16.979	ug/l	93
5) Bromomethane	2.536	94	24408	18.217	ug/l	87
6) Chloroethane	2.671	64	24109	16.944	ug/l	92
7) Trichlorofluoromethane	2.971	101	44617	17.053	ug/l	92
8) Diethyl Ether	3.335	74	29470	18.293	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.664	101	19110	18.603	ug/l	97
10) 1,1-Dichloroethene	3.640	96	19709	19.152	ug/l	95
11) Methyl Iodide	3.846	142	20001	19.945	ug/l #	10
12) Methyl Acetate	4.199	43	89573	22.012	ug/l	97
13) Acrolein	3.523	56	9183	66.910	ug/l	99
14) Acrylonitrile	4.821	53	117582	93.744	ug/l	99
15) Acetone	3.717	58	36969	82.726	ug/l	92
16) Carbon Disulfide	3.940	76	34466	17.932	ug/l	98
17) Allyl chloride	4.199	41	49960	20.423	ug/l	90
18) Methylene Chloride	4.404	84	29911	19.488	ug/l	94
19) trans-1,2-Dichloroethene	6.660	96	32282	20.390	ug/l	97
20) Diisopropyl ether	5.779	45	123189	19.783	ug/l #	65
21) 1,1-Dichloroethane	5.673	63	56803	19.522	ug/l	99
22) cis-1,2-Dichloroethene	6.660	96	32282	20.390	ug/l	97
23) tert-Butyl Alcohol	4.639	59	50791	92.428	ug/l #	100
24) Methyl tert-Butyl Ether	4.880	73	121894	19.713	ug/l	96
25) Chloroform	7.236	83	53646	20.155	ug/l	100
26) Cyclohexane	7.536	56	31479	18.436	ug/l #	98
29) 1,1-Dichloropropene	7.683	75	29095	19.534	ug/l	97
30) 2-Butanone	6.672	43	163568	89.095	ug/l	99
31) 2,2-Dichloropropane	6.666	77	42859	19.653	ug/l	92
32) 1,1,1-Trichloroethane	7.448	97	37748	20.116	ug/l #	75
33) Carbon Tetrachloride	7.671	117	24787	20.616	ug/l #	99
34) Benzene	7.953	78	108407	19.645	ug/l #	77
35) Methacrylonitrile	7.019	41	28541	18.264	ug/l	91
36) 1,2-Dichloroethane	8.047	62	40538	19.816	ug/l	97
37) Trichloroethene	8.829	130	20580	20.273	ug/l	99
38) Methylcyclohexane	9.099	83	28559	19.040	ug/l	96
39) 1,2-Dichloropropane	9.140	63	29062	20.109	ug/l #	87
40) Dibromomethane	9.240	93	18053	20.259	ug/l #	74
41) Bromodichloromethane	10.762	83	23857	20.842	ug/l #	95
42) Vinyl Acetate	5.720	43	425603	94.488	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.772	43	61045	20.228	ug/l	96
44) Isopropyl Acetate	8.094	43	92137	19.398	ug/l	95
45) 1,4-Dioxane	9.234	88	15919	386.327	ug/l #	76
46) Methyl methacrylate	9.234	41	42164	19.853	ug/l	86
47) n-amyl Acetate	12.471	43	62879	19.673	ug/l	99
48) t-1,3-Dichloropropene	10.562	75	42444	20.436	ug/l	98
49) cis-1,3-Dichloropropene	9.951	75	45238	20.734	ug/l	97
50) 1,1,2-Trichloroethane	10.767	97	26839	20.477	ug/l	89
51) Ethyl methacrylate	10.615	69	49663	20.219	ug/l	96
52) 1,3-Dichloropropane	10.926	76	47769	20.406	ug/l	98
53) Dibromochloromethane	11.155	129	25851	21.144	ug/l #	2
54) 1,2-Dibromoethane	11.273	107	24585	20.167	ug/l	99
55) 2-Chloroethyl vinyl ether	9.786	63	68379	95.449	ug/l	99
56) Bromoform	12.548	173	17226	21.432	ug/l #	18
58) 4-Methyl-2-Pentanone	10.109	43	279471	96.184	ug/l	98
59) 2-Hexanone	10.109	43	279471	96.184	ug/l #	83
61) Tetrachloroethene	10.844	164	15617	20.824	ug/l	96
62) Toluene	10.303	91	108270	20.374	ug/l	100
64) Chlorobenzene	11.755	112	66538	20.499	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.843	131	22617	21.391	ug/l	91
66) Ethyl Benzene	11.843	91	117967	20.425	ug/l	98
67) m/p-Xylenes	11.972	106	87151	40.593	ug/l	97
68) o-Xylene	12.342	106	44744	20.190	ug/l	94
69) Styrene	12.360	104	79374	19.950	ug/l	96
70) Isopropylbenzene	12.689	105	111804	20.568	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.971	83	44400	20.818	ug/l	98
72) 1,2,3-Trichloropropane	13.030	75	34370m	21.832	ug/l	
73) Bromobenzene	13.006	156	26549	20.770	ug/l	64
74) n-propylbenzene	13.077	91	133129	20.311	ug/l	99
75) 2-Chlorotoluene	13.282	91	82685	20.607	ug/l	98
76) 1,3,5-Trimethylbenzene	13.235	105	92960	20.845	ug/l	96
77) t-1,4-Dichloro-2-butene	12.742	75	15860	20.733	ug/l	82
78) 4-Chlorotoluene	13.171	91	80660	20.378	ug/l	93
79) tert-butylbenzene	13.535	119	82526	20.837	ug/l	93
80) 1,2,4-Trimethylbenzene	13.582	105	94775	20.369	ug/l	98
81) sec-Butylbenzene	13.735	105	115739	20.281	ug/l	98
82) p-Isopropyltoluene	13.864	119	97973	20.636	ug/l	97
83) 1,3-Dichlorobenzene	13.864	146	52438	20.918	ug/l	99
84) 1,4-Dichlorobenzene	13.958	146	52860	20.944	ug/l	98
85) n-Butylbenzene	14.234	91	87164	20.060	ug/l	98
86) Hexachloroethane	14.545	117	14310	22.491	ug/l #	1
87) 1,2-Dichlorobenzene	14.287	146	54384	21.716	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.986	75	9418	20.099	ug/l	97
89) 1,2,4-Trichlorobenzene	15.773	180	31454	20.632	ug/l	98
90) Hexachlorobutadiene	15.903	225	10599m	20.968	ug/l	
91) Naphthalene	16.067	128	120843	20.507	ug/l	99
92) 1,2,3-Trichlorobenzene	16.296	180	32336	21.014	ug/l	97

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

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