

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102325\
 Data File : VT019170.D
 Acq On : 23 Oct 2025 14:16
 Operator : SY/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

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

Quant Time: Oct 24 06:43:43 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	7.066	128	21693	30.000	ug/l	#-0.01
28) 1,4-Difluorobenzene	8.564	114	136569	30.000	ug/l	-0.01
57) Chlorobenzene-d5	11.743	117	115257	30.000	ug/l	-0.01
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	57911	30.471	ug/l	-0.02
Spiked Amount 30.000	Range	91 - 110	Recovery	= 101.567%		
60) 4-Bromofluorobenzene	12.877	95	53775	29.686	ug/l	-0.01
Spiked Amount 30.000	Range	63 - 112	Recovery	= 98.967%		
63) Toluene-d8	10.245	98	166698	29.715	ug/l	-0.01
Spiked Amount 30.000	Range	91 - 112	Recovery	= 99.067%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.878	85	14028	23.563	ug/l	99
3) Chloromethane	2.107	50	27689m	20.262	ug/l	
4) Vinyl Chloride	2.195	62	32370	21.195	ug/l	95
5) Bromomethane	2.542	94	24542	19.349	ug/l	85
6) Chloroethane	2.689	64	25216	18.721	ug/l	97
7) Trichlorofluoromethane	2.982	101	52069	21.023	ug/l	99
8) Diethyl Ether	3.352	74	27130	17.790	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.676	101	24606	25.304	ug/l	96
10) 1,1-Dichloroethene	3.658	96	22933	23.542	ug/l	88
11) Methyl Iodide	3.864	142	20094	21.167	ug/l #	14
12) Methyl Acetate	4.216	43	74986	19.466	ug/l	96
13) Acrolein	3.529	56	13305	102.409	ug/l	98
14) Acrylonitrile	4.833	53	110965	93.456	ug/l	97
15) Acetone	3.728	58	40402	95.505	ug/l	98
16) Carbon Disulfide	3.964	76	40375	22.191	ug/l	98
17) Allyl chloride	4.210	41	48843	21.092	ug/l	88
18) Methylene Chloride	4.422	84	27703	19.067	ug/l	94
19) trans-1,2-Dichloroethene	6.678	96	30996	20.681	ug/l	97
20) Diisopropyl ether	5.791	45	116601	19.781	ug/l #	69
21) 1,1-Dichloroethane	5.685	63	55665	20.209	ug/l	99
22) cis-1,2-Dichloroethene	6.678	96	30996	20.681	ug/l	93
23) tert-Butyl Alcohol	4.657	59	48571	93.371	ug/l #	100
24) Methyl tert-Butyl Ether	4.898	73	112228	19.173	ug/l	95
25) Chloroform	7.254	83	52066	20.664	ug/l	99
26) Cyclohexane	7.553	56	37679	23.311	ug/l #	100
29) 1,1-Dichloropropene	7.700	75	32565	22.788	ug/l	96
30) 2-Butanone	6.690	43	160371	91.045	ug/l	99
31) 2,2-Dichloropropane	6.678	77	45789	21.885	ug/l	94
32) 1,1,1-Trichloroethane	7.459	97	39874	22.147	ug/l #	75
33) Carbon Tetrachloride	7.677	117	27041	23.441	ug/l #	99
34) Benzene	7.965	78	110191	20.813	ug/l #	80
35) Methacrylonitrile	7.036	41	29967	19.987	ug/l	94
36) 1,2-Dichloroethane	8.059	62	38264	19.495	ug/l	98
37) Trichloroethene	8.840	130	21050	21.612	ug/l	94
38) Methylcyclohexane	9.105	83	35625	24.755	ug/l	98
39) 1,2-Dichloropropane	9.152	63	27895	20.117	ug/l	92
40) Dibromomethane	9.252	93	16401	19.183	ug/l #	74
41) Bromodichloromethane	10.773	83	21811	19.860	ug/l #	92
42) Vinyl Acetate	5.732	43	424436	98.211	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.784	43	57760	19.948	ug/l	100
44) Isopropyl Acetate	8.106	43	86959	19.082	ug/l	98
45) 1,4-Dioxane	9.246	88	15746	398.279	ug/l #	76
46) Methyl methacrylate	9.246	41	38867	19.074	ug/l	89
47) n-amyl Acetate	12.489	43	60910	19.862	ug/l	99
48) t-1,3-Dichloropropene	10.574	75	41007	20.578	ug/l	96
49) cis-1,3-Dichloropropene	9.957	75	42676	20.387	ug/l	98
50) 1,1,2-Trichloroethane	10.779	97	24619	19.577	ug/l #	80
51) Ethyl methacrylate	10.626	69	47638	20.214	ug/l	94
52) 1,3-Dichloropropane	10.938	76	44161	19.662	ug/l	98
53) Dibromochloromethane	11.167	129	23960	20.425	ug/l #	2
54) 1,2-Dibromoethane	11.284	107	23025	19.686	ug/l	98
55) 2-Chloroethyl vinyl ether	9.798	63	63965	93.062	ug/l	99
56) Bromoform	12.559	173	16047	20.809	ug/l #	24
58) 4-Methyl-2-Pentanone	10.121	43	259256	91.851	ug/l	98
59) 2-Hexanone	10.121	43	259256	91.851	ug/l #	83
61) Tetrachloroethene	10.856	164	16577	22.755	ug/l	95
62) Toluene	10.315	91	107209	20.767	ug/l	98
64) Chlorobenzene	11.772	112	65775	20.859	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.854	131	21141	20.582	ug/l	93
66) Ethyl Benzene	11.854	91	119272	21.259	ug/l	94
67) m/p-Xylenes	11.984	106	89333	42.832	ug/l	99
68) o-Xylene	12.354	106	45336	21.059	ug/l	93
69) Styrene	12.371	104	79227	20.498	ug/l	96
70) Isopropylbenzene	12.701	105	118287	22.401	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.988	83	41094	19.834	ug/l	98
72) 1,2,3-Trichloropropane	13.047	75	33343m	21.802	ug/l	
73) Bromobenzene	13.018	156	26004	20.942	ug/l	67
74) n-propylbenzene	13.088	91	144831	22.746	ug/l	97
75) 2-Chlorotoluene	13.294	91	82572	21.183	ug/l	97
76) 1,3,5-Trimethylbenzene	13.247	105	96983	22.387	ug/l	96
77) t-1,4-Dichloro-2-butene	12.753	75	14649	19.713	ug/l	85
78) 4-Chlorotoluene	13.188	91	81543	21.207	ug/l	95
79) tert-butylbenzene	13.547	119	87485	22.738	ug/l	95
80) 1,2,4-Trimethylbenzene	13.599	105	98526	21.798	ug/l	99
81) sec-Butylbenzene	13.746	105	130925	23.616	ug/l	100
82) p-Isopropyltoluene	13.876	119	107272	23.259	ug/l	97
83) 1,3-Dichlorobenzene	13.881	146	50766	20.847	ug/l	99
84) 1,4-Dichlorobenzene	13.970	146	52026	21.219	ug/l	98
85) n-Butylbenzene	14.246	91	100606	23.834	ug/l	97
86) Hexachloroethane	14.557	117	15402	24.919	ug/l #	1
87) 1,2-Dichlorobenzene	14.299	146	50975	20.953	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	15.010	75	9090	19.970	ug/l	96
89) 1,2,4-Trichlorobenzene	15.791	180	32144	21.704	ug/l	98
90) Hexachlorobutadiene	15.920	225	12825	26.118	ug/l	82
91) Naphthalene	16.085	128	111321	19.447	ug/l	98
92) 1,2,3-Trichlorobenzene	16.314	180	31791	21.267	ug/l	96

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

