

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102225\
 Data File : VT019156.D
 Acq On : 22 Oct 2025 13:35
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VSTDICC010

Quant Time: Oct 24 05:11:41 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	7.089	128	19045	30.000	ug/l	# 0.01
28) 1,4-Difluorobenzene	8.582	114	124337	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.755	117	104651	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.977	65	51618	30.936	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 103.133%		
60) 4-Bromofluorobenzene	12.889	95	48704	29.612	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 98.700%		
63) Toluene-d8	10.256	98	151798	29.802	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 99.333%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.889	85	5314	8.143	ug/l	92
3) Chloromethane	2.113	50	13644m	11.027	ug/l	
4) Vinyl Chloride	2.201	62	13799	9.848	ug/l	94
5) Bromomethane	2.565	94	12872	10.490	ug/l	97
6) Chloroethane	2.694	64	12773	10.529	ug/l	97
7) Trichlorofluoromethane	3.000	101	21376	9.830	ug/l	96
8) Diethyl Ether	3.364	74	14091	10.525	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.693	101	8091	9.477	ug/l	97
10) 1,1-Dichloroethene	3.670	96	8318	9.726	ug/l	86
11) Methyl Iodide	3.881	142	7245	8.478	ug/l	# 13
12) Methyl Acetate	4.234	43	39595	11.708	ug/l	98
13) Acrolein	3.546	56	5024	44.047	ug/l	95
14) Acrylonitrile	4.857	53	54344	52.133	ug/l	99
15) Acetone	3.746	58	18728	50.426	ug/l	98
16) Carbon Disulfide	3.975	76	16013	10.025	ug/l	99
17) Allyl chloride	4.234	41	20096	9.885	ug/l	87
18) Methylene Chloride	4.451	84	13914	10.908	ug/l	87
19) trans-1,2-Dichloroethene	6.696	96	13632	10.360	ug/l	98
20) Diisopropyl ether	5.814	45	52539	10.152	ug/l	# 67
21) 1,1-Dichloroethane	5.714	63	25018	10.346	ug/l	98
22) cis-1,2-Dichloroethene	6.696	96	13632	10.360	ug/l	94
23) tert-Butyl Alcohol	4.674	59	23071	50.518	ug/l	# 100
24) Methyl tert-Butyl Ether	4.921	73	52859	10.275	ug/l	97
25) Chloroform	7.277	83	22886	10.346	ug/l	96
26) Cyclohexane	7.571	56	14222	10.022	ug/l	# 97
29) 1,1-Dichloropropene	7.718	75	12383	9.518	ug/l	95
30) 2-Butanone	6.713	43	78674	49.058	ug/l	99
31) 2,2-Dichloropropane	6.702	77	18581	9.754	ug/l	93
32) 1,1,1-Trichloroethane	7.477	97	16094	9.818	ug/l	# 80
33) Carbon Tetrachloride	7.700	117	9774	9.306	ug/l	# 93
34) Benzene	7.988	78	47933	9.944	ug/l	# 66
35) Methacrylonitrile	7.066	41	14567	10.672	ug/l	95
36) 1,2-Dichloroethane	8.076	62	17984	10.064	ug/l	96
37) Trichloroethene	8.852	130	8817	9.943	ug/l	98
38) Methylcyclohexane	9.128	83	11813	9.016	ug/l	97
39) 1,2-Dichloropropane	9.175	63	12479	9.885	ug/l	# 89
40) Dibromomethane	9.269	93	8062	10.357	ug/l	# 73
41) Bromodichloromethane	10.791	83	10227	10.228	ug/l	# 96
42) Vinyl Acetate	5.756	43	179148	45.532	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.807	43	26330	9.988	ug/l #	92
44) Isopropyl Acetate	8.129	43	40868	9.850	ug/l	98
45) 1,4-Dioxane	9.269	88	7043	195.671	ug/l #	71
46) Methyl methacrylate	9.263	41	18097	9.755	ug/l	81
47) n-amyl Acetate	12.501	43	25343	9.077	ug/l	99
48) t-1,3-Dichloropropene	10.591	75	17455	9.621	ug/l	99
49) cis-1,3-Dichloropropene	9.974	75	18724	9.825	ug/l	98
50) 1,1,2-Trichloroethane	10.791	97	11276	9.849	ug/l	89
51) Ethyl methacrylate	10.644	69	20774	9.682	ug/l	93
52) 1,3-Dichloropropane	10.955	76	21120	10.328	ug/l	100
53) Dibromochloromethane	11.179	129	10051	9.406	ug/l #	1
54) 1,2-Dibromoethane	11.302	107	10774	10.118	ug/l	97
55) 2-Chloroethyl vinyl ether	9.816	63	26496	42.341	ug/l	98
56) Bromoform	12.577	173	6338	9.027	ug/l #	23
58) 4-Methyl-2-Pentanone	10.139	43	123855	48.327	ug/l	98
59) 2-Hexanone	10.139	43	123855	48.327	ug/l #	83
61) Tetrachloroethene	10.867	164	6232	9.421	ug/l	94
62) Toluene	10.333	91	45305	9.665	ug/l	99
64) Chlorobenzene	11.790	112	28050	9.797	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.872	131	8713	9.343	ug/l	90
66) Ethyl Benzene	11.872	91	48125	9.447	ug/l	98
67) m/p-Xylenes	12.001	106	36011	19.016	ug/l	99
68) o-Xylene	12.371	106	19224	9.835	ug/l	94
69) Styrene	12.389	104	33925	9.667	ug/l	95
70) Isopropylbenzene	12.712	105	46466	9.691	ug/l	99
71) 1,1,2,2-Tetrachloroethane	13.000	83	19132	10.170	ug/l #	97
72) 1,2,3-Trichloropropane	13.065	75	11596m	7.821	ug/l	
73) Bromobenzene	13.035	156	11619	10.305	ug/l	69
74) n-propylbenzene	13.106	91	55248	9.556	ug/l	98
75) 2-Chlorotoluene	13.312	91	33899	9.578	ug/l	100
76) 1,3,5-Trimethylbenzene	13.259	105	37686	9.581	ug/l	96
77) t-1,4-Dichloro-2-butene	12.771	75	6028	8.935	ug/l	82
78) 4-Chlorotoluene	13.200	91	33217	9.514	ug/l	93
79) tert-butylbenzene	13.564	119	32930	9.426	ug/l	92
80) 1,2,4-Trimethylbenzene	13.611	105	38747	9.441	ug/l	99
81) sec-Butylbenzene	13.764	105	47115	9.360	ug/l	100
82) p-Isopropyltoluene	13.893	119	39041	9.323	ug/l	98
83) 1,3-Dichlorobenzene	13.893	146	21163	9.571	ug/l	100
84) 1,4-Dichlorobenzene	13.987	146	21276	9.557	ug/l	99
85) n-Butylbenzene	14.263	91	34176	8.917	ug/l	98
86) Hexachloroethane	14.575	117	4587	8.173	ug/l #	1
87) 1,2-Dichlorobenzene	14.316	146	21707	9.827	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	15.015	75	3854	9.325	ug/l	95
89) 1,2,4-Trichlorobenzene	15.809	180	13057	9.710	ug/l	92
90) Hexachlorobutadiene	15.932	225	4149	9.306	ug/l	80
91) Naphthalene	16.097	128	51289	9.868	ug/l	99
92) 1,2,3-Trichlorobenzene	16.337	180	12943	9.536	ug/l	97

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

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