

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087179.D
 Acq On : 25 Jun 2025 16:12
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/26/2025
 Supervised By : Mahesh Dadoda 06/26/2025

Quant Time: Jun 26 03:40:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	36303	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	199770	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	181447	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	82377	30.117	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.400%			
60) 4-Bromofluorobenzene	12.847	95	81074	28.956	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.533%			
63) Toluene-d8	10.571	98	247986	30.439	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.467%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.154	85	40482	18.525	ug/l	100
3) Chloromethane	2.395	50	42167	18.892	ug/l	98
4) Vinyl Chloride	2.554	62	43094	17.765	ug/l	99
5) Bromomethane	3.001	94	16358	12.706	ug/l	94
6) Chloroethane	3.153	64	24146	18.555	ug/l	91
7) Trichlorofluoromethane	3.530	101	51004	17.141	ug/l	100
8) Diethyl Ether	3.983	74	26035	17.809	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.400	101	42132	19.098	ug/l #	55
10) 1,1-Dichloroethene	4.371	96	41054	18.669	ug/l	98
11) Methyl Iodide	4.606	142	19910	10.106	ug/l	96
12) Methyl Acetate	5.047	43	67700	19.626	ug/l	95
13) Acrolein	4.200	56	32756	61.800	ug/l	98
14) Acrylonitrile	5.736	53	156091	97.014	ug/l	99
15) Acetone	4.448	58	43106	91.845	ug/l	92
16) Carbon Disulfide	4.742	76	119323	18.558	ug/l	97
17) Allyl chloride	5.053	41	66485	18.330	ug/l	92
18) Methylene Chloride	5.295	84	50023	19.635	ug/l	97
19) trans-1,2-Dichloroethene	5.806	96	46362	19.278	ug/l	96
20) Diisopropyl ether	6.689	45	151008	19.623	ug/l	96
21) 1,1-Dichloroethane	6.583	63	88673	19.279	ug/l	98
22) cis-1,2-Dichloroethene	7.500	96	55998	20.007	ug/l	95
23) tert-Butyl Alcohol	5.542	59	60361	99.755	ug/l #	100
24) Methyl tert-Butyl Ether	5.818	73	150611	19.528	ug/l	99
25) Chloroform	7.977	83	87793	19.924	ug/l	100
26) Cyclohexane	8.265	56	71620	18.734	ug/l #	96
29) 1,1-Dichloropropene	8.377	75	58240	18.705	ug/l	97
30) 2-Butanone	7.489	43	213122	101.469	ug/l	100
31) 2,2-Dichloropropane	7.500	77	74927	19.935	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	70132	19.280	ug/l	99
33) Carbon Tetrachloride	8.371	117	58439	19.090	ug/l	94
34) Benzene	8.612	78	197862	20.058	ug/l	98
35) Methacrylonitrile	7.783	41	42848	20.242	ug/l	93
36) 1,2-Dichloroethane	8.677	62	65253	20.474	ug/l	97
37) Trichloroethene	9.353	130	45765	20.114	ug/l	91
38) Methylcyclohexane	9.606	83	65236	18.260	ug/l	99
39) 1,2-Dichloropropane	9.624	63	47540	19.201	ug/l	96
40) Dibromomethane	9.712	93	32107	19.071	ug/l	99
41) Bromodichloromethane	9.888	83	66331	19.520	ug/l	98
42) Vinyl Acetate	6.618	43	624132	91.361	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	80830	21.318	ug/l	96
44) Isopropyl Acetate	8.694	43	123907	20.057	ug/l	100
45) 1,4-Dioxane	9.700	88	16430	393.166	ug/l	99
46) Methyl methacrylate	9.682	41	53606	18.666	ug/l	98
47) n-amyl Acetate	12.547	43	76104m	20.150	ug/l	
48) t-1,3-Dichloropropene	10.835	75	74102	19.561	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	79655	19.779	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	47352	19.800	ug/l	97
51) Ethyl methacrylate	10.882	69	68339	18.775	ug/l	98
52) 1,3-Dichloropropane	11.165	76	82634	20.127	ug/l	99
53) Dibromochloromethane	11.359	129	49627	19.769	ug/l	99
54) 1,2-Dibromoethane	11.471	107	48454	19.638	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	175670	84.198	ug/l	99
56) Bromoform	12.576	173	32549	18.861	ug/l #	99
58) 4-Methyl-2-Pentanone	10.447	43	369720	101.356	ug/l	99
59) 2-Hexanone	11.206	43	219779	93.306	ug/l	94
61) Tetrachloroethene	11.106	164	37333	20.777	ug/l	96
62) Toluene	10.629	91	210351	20.526	ug/l	99
64) Chlorobenzene	11.894	112	133717	20.456	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	44817	20.750	ug/l	99
66) Ethyl Benzene	11.965	91	225779	20.129	ug/l	98
67) m/p-Xylenes	12.071	106	172886	40.222	ug/l	99
68) o-Xylene	12.400	106	83317	20.317	ug/l	99
69) Styrene	12.412	104	141457	20.093	ug/l	99
70) Isopropylbenzene	12.694	105	210358	20.597	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	70867	19.278	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	61851m	19.511	ug/l	
73) Bromobenzene	12.982	156	45554	18.388	ug/l	98
74) n-propylbenzene	13.035	91	243449	19.512	ug/l	99
75) 2-Chlorotoluene	13.123	91	149451	19.826	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	165874	19.951	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	25646	18.238	ug/l	94
78) 4-Chlorotoluene	13.223	91	156405	20.259	ug/l	99
79) tert-butylbenzene	13.435	119	138724	19.849	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	171626	20.557	ug/l	99
81) sec-Butylbenzene	13.618	105	210267	20.696	ug/l	100
82) p-Isopropyltoluene	13.729	119	167840	19.852	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	93115	19.518	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	92935	19.356	ug/l	100
85) n-Butylbenzene	14.053	91	156148	20.242	ug/l	99
86) Hexachloroethane	14.329	117	31840	19.895	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	89090	19.805	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16859	20.367	ug/l	97
89) 1,2,4-Trichlorobenzene	15.841	180	51271	20.146	ug/l	97
90) Hexachlorobutadiene	15.500	225	16790	22.232	ug/l	95
91) Naphthalene	15.641	128	198074	19.776	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	51271	20.146	ug/l	97

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

