

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070925\
 Data File : VN087314.D
 Acq On : 09 Jul 2025 16:42
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/10/2025
 Supervised By : Mahesh Dadoda 07/10/2025

Quant Time: Jul 10 01:27:47 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	38507	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	189701	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	186273	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	82075	28.289	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.300%		
60) 4-Bromofluorobenzene	12.847	95	88433	30.766	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.567%		
63) Toluene-d8	10.565	98	244862	29.277	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.600%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.159	85	37035	15.977	ug/l	95
3) Chloromethane	2.401	50	34115	14.409	ug/l	96
4) Vinyl Chloride	2.553	62	37777	14.681	ug/l	99
5) Bromomethane	3.001	94	36785	26.937	ug/l	92
6) Chloroethane	3.153	64	34312	24.859	ug/l	99
7) Trichlorofluoromethane	3.524	101	64118	20.315	ug/l	98
8) Diethyl Ether	3.989	74	23319m	15.038	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.395	101	41004m	17.523	ug/l	
10) 1,1-Dichloroethene	4.365	96	37178	15.938	ug/l	92
11) Methyl Iodide	4.618	142	40984	19.612	ug/l	93
12) Methyl Acetate	5.047	43	56519	15.447	ug/l	97
13) Acrolein	4.206	56	58912	104.785	ug/l	99
14) Acrylonitrile	5.736	53	128417	75.246	ug/l	93
15) Acetone	4.442	58	40877	82.111	ug/l	95
16) Carbon Disulfide	4.736	76	101968	14.951	ug/l	97
17) Allyl chloride	5.047	41	48949	12.723	ug/l	93
18) Methylene Chloride	5.294	84	51507	19.061	ug/l	96
19) trans-1,2-Dichloroethene	5.806	96	44270m	17.355	ug/l	
20) Diisopropyl ether	6.683	45	120977	14.821	ug/l	96
21) 1,1-Dichloroethane	6.589	63	79960	16.390	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	52518	17.690	ug/l	94
23) tert-Butyl Alcohol	5.536	59	48617m	75.748	ug/l	
24) Methyl tert-Butyl Ether	5.818	73	139720	17.079	ug/l	97
25) Chloroform	7.977	83	92313	19.751	ug/l	99
26) Cyclohexane	8.265	56	54157	13.355	ug/l #	86
29) 1,1-Dichloropropene	8.377	75	56529	19.119	ug/l	97
30) 2-Butanone	7.488	43	170470	85.470	ug/l	92
31) 2,2-Dichloropropane	7.500	77	76518	21.439	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	80030	23.168	ug/l	96
33) Carbon Tetrachloride	8.365	117	68560	23.585	ug/l	95
34) Benzene	8.612	78	182633	19.497	ug/l	97
35) Methacrylonitrile	7.788	41	35618	17.720	ug/l	87
36) 1,2-Dichloroethane	8.677	62	68101	22.502	ug/l	99
37) Trichloroethene	9.353	130	46654	21.593	ug/l	82
38) Methylcyclohexane	9.606	83	57138	16.842	ug/l	95
39) 1,2-Dichloropropane	9.624	63	44033	18.729	ug/l	93
40) Dibromomethane	9.712	93	37529	23.475	ug/l	97
41) Bromodichloromethane	9.888	83	72526	22.476	ug/l	93
42) Vinyl Acetate	6.618	43	520166	80.184	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	61664	17.127	ug/l	98
44) Isopropyl Acetate	8.694	43	99006	16.877	ug/l	92
45) 1,4-Dioxane	9.700	88	15474	389.943	ug/l #	82
46) Methyl methacrylate	9.688	41	44866	16.452	ug/l	91
47) n-amyl Acetate	12.541	43	68036m	18.970	ug/l	
48) t-1,3-Dichloropropene	10.835	75	70748	19.667	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	74893	19.584	ug/l	99
50) 1,1,2-Trichloroethane	11.018	97	49733	21.900	ug/l	93
51) Ethyl methacrylate	10.882	69	56703	16.405	ug/l	94
52) 1,3-Dichloropropane	11.165	76	77946	19.993	ug/l	97
53) Dibromochloromethane	11.359	129	57590	24.159	ug/l	97
54) 1,2-Dibromoethane	11.471	107	52680	22.484	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	158262	79.881	ug/l	96
56) Bromoform	12.576	173	37345	22.789	ug/l #	98
58) 4-Methyl-2-Pentanone	10.447	43	310331	82.870	ug/l	98
59) 2-Hexanone	11.206	43	178152	73.674	ug/l	96
61) Tetrachloroethene	11.106	164	36835	19.968	ug/l	89
62) Toluene	10.629	91	205518	19.535	ug/l	99
64) Chlorobenzene	11.894	112	139979	20.859	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	51671	23.303	ug/l	95
66) Ethyl Benzene	11.965	91	220704	19.166	ug/l	99
67) m/p-Xylenes	12.070	106	178363	40.421	ug/l	95
68) o-Xylene	12.400	106	83598	19.858	ug/l	95
69) Styrene	12.412	104	145285	20.102	ug/l	99
70) Isopropylbenzene	12.694	105	211869	20.208	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	79190	20.984	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	67122m	20.625	ug/l	
73) Bromobenzene	12.982	156	58538	23.016	ug/l	83
74) n-propylbenzene	13.035	91	259224	20.238	ug/l	96
75) 2-Chlorotoluene	13.123	91	160710	20.768	ug/l	94
76) 1,3,5-Trimethylbenzene	13.170	105	181842	21.304	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	26583	18.415	ug/l	91
78) 4-Chlorotoluene	13.217	91	167189	21.095	ug/l	95
79) tert-butylbenzene	13.435	119	153765	21.431	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	182147	21.252	ug/l	98
81) sec-Butylbenzene	13.612	105	218397	20.940	ug/l	96
82) p-Isopropyltoluene	13.729	119	187455	21.597	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	113301	23.134	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	113116	22.949	ug/l	99
85) n-Butylbenzene	14.053	91	161050	20.337	ug/l	98
86) Hexachloroethane	14.329	117	36678	22.324	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	108070	23.402	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	17976	21.154	ug/l	89
89) 1,2,4-Trichlorobenzene	15.835	180	56549	21.644	ug/l	99
90) Hexachlorobutadiene	15.500	225	14931	19.259	ug/l	96
91) Naphthalene	15.641	128	206744	20.106	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	56549	21.644	ug/l	99

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

