

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087466.D
 Acq On : 05 Aug 2025 19:17
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Aug 06 02:46:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	66340	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	344745	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	301649	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	186732	30.517	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.733%			
60) 4-Bromofluorobenzene	12.829	95	155394	29.934	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.767%			
63) Toluene-d8	10.547	98	426706	30.743	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.467%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	70458	16.267	ug/l	99
3) Chloromethane	2.383	50	77203	17.373	ug/l	100
4) Vinyl Chloride	2.542	62	78381	16.630	ug/l	93
5) Bromomethane	2.983	94	48623	19.059	ug/l	80
6) Chloroethane	3.142	64	54411	17.903	ug/l	99
7) Trichlorofluoromethane	3.512	101	104692	15.434	ug/l	99
8) Diethyl Ether	3.965	74	53990	19.105	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	55941	16.172	ug/l	87
10) 1,1-Dichloroethene	4.342	96	58993	16.236	ug/l	90
11) Methyl Iodide	4.583	142	47195	16.497	ug/l	98
12) Methyl Acetate	5.018	43	131349	19.590	ug/l	100
13) Acrolein	4.177	56	103169	100.744	ug/l	98
14) Acrylonitrile	5.706	53	267336	91.309	ug/l	98
15) Acetone	4.424	58	72334	86.467	ug/l	91
16) Carbon Disulfide	4.706	76	185912	16.495	ug/l	99
17) Allyl chloride	5.018	41	129012	17.421	ug/l	94
18) Methylene Chloride	5.271	84	83505	17.853	ug/l	96
19) trans-1,2-Dichloroethene	5.777	96	72016	16.667	ug/l	97
20) Diisopropyl ether	6.665	45	299277	17.739	ug/l	99
21) 1,1-Dichloroethane	6.559	63	158261	18.148	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	92938	17.482	ug/l	98
23) tert-Butyl Alcohol	5.524	59	114102	91.713	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	305280	18.439	ug/l	97
25) Chloroform	7.953	83	160724	17.657	ug/l	99
26) Cyclohexane	8.235	56	112431	16.102	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	94889	16.876	ug/l	99
30) 2-Butanone	7.471	43	404382	97.567	ug/l	100
31) 2,2-Dichloropropane	7.477	77	117444	16.195	ug/l #	77
32) 1,1,1-Trichloroethane	8.153	97	127537	17.784	ug/l	97
33) Carbon Tetrachloride	8.341	117	98283	16.497	ug/l	91
34) Benzene	8.588	78	324981	18.309	ug/l	97
35) Methacrylonitrile	7.765	41	88341	19.752	ug/l	98
36) 1,2-Dichloroethane	8.653	62	143551	20.010	ug/l	98
37) Trichloroethene	9.335	130	68264	17.460	ug/l	92
38) Methylcyclohexane	9.582	83	107845	16.533	ug/l	97
39) 1,2-Dichloropropane	9.600	63	86086	18.917	ug/l	97
40) Dibromomethane	9.688	93	63478	18.591	ug/l	94
41) Bromodichloromethane	9.871	83	131039	18.469	ug/l	97
42) Vinyl Acetate	6.588	43	1462688	107.163	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	165626m	20.685	ug/l	
44) Isopropyl Acetate	8.677	43	266488	19.634	ug/l	100
45) 1,4-Dioxane	9.682	88	33339	385.307	ug/l	98
46) Methyl methacrylate	9.665	41	109448	17.083	ug/l	91
47) n-amyl Acetate	12.523	43	149257m	19.907	ug/l	
48) t-1,3-Dichloropropene	10.818	75	135243	17.521	ug/l	96
49) cis-1,3-Dichloropropene	10.294	75	143273	18.443	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	82515	19.127	ug/l	94
51) Ethyl methacrylate	10.853	69	142595	18.768	ug/l	98
52) 1,3-Dichloropropane	11.141	76	147352	18.959	ug/l	97
53) Dibromochloromethane	11.341	129	91099	18.285	ug/l	99
54) 1,2-Dibromoethane	11.447	107	87072	19.013	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	403451	100.871	ug/l	99
56) Bromoform	12.559	173	56428	17.124	ug/l #	98
58) 4-Methyl-2-Pentanone	10.423	43	808190	104.151	ug/l	99
59) 2-Hexanone	11.176	43	536141	101.688	ug/l	100
61) Tetrachloroethene	11.082	164	51133	17.399	ug/l	96
62) Toluene	10.606	91	334969	17.992	ug/l	99
64) Chlorobenzene	11.870	112	205400	17.955	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	73909	18.375	ug/l	99
66) Ethyl Benzene	11.941	91	358400	17.271	ug/l	100
67) m/p-Xylenes	12.053	106	259575	34.079	ug/l	99
68) o-Xylene	12.376	106	132125	17.632	ug/l	100
69) Styrene	12.394	104	226847	17.729	ug/l	99
70) Isopropylbenzene	12.670	105	325789	17.113	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	129280	19.819	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	128271m	21.108	ug/l	
73) Bromobenzene	12.959	156	76947	17.435	ug/l	96
74) n-propylbenzene	13.012	91	410297	17.257	ug/l	99
75) 2-Chlorotoluene	13.100	91	253093	17.305	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	276506	16.963	ug/l	98
77) t-1,4-Dichloro-2-butene	12.717	75	36503	15.868	ug/l	94
78) 4-Chlorotoluene	13.200	91	256186	17.285	ug/l	99
79) tert-butylbenzene	13.417	119	240811	17.522	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	285822	17.548	ug/l	100
81) sec-Butylbenzene	13.594	105	347157	17.351	ug/l	99
82) p-Isopropyltoluene	13.706	119	289043	17.399	ug/l	99
83) 1,3-Dichlorobenzene	13.711	146	147672	17.571	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	147514	17.313	ug/l	98
85) n-Butylbenzene	14.035	91	280872	17.281	ug/l	99
86) Hexachloroethane	14.311	117	50744	15.642	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	142956	17.820	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.694	75	32655	19.761	ug/l	94
89) 1,2,4-Trichlorobenzene	15.811	180	84979	17.725	ug/l	98
90) Hexachlorobutadiene	15.470	225	30062	16.125	ug/l	93
91) Naphthalene	15.611	128	338259	18.504	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	84979	17.725	ug/l	98

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

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