

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
 Data File : VN088055.D
 Acq On : 17 Oct 2025 09:29
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/20/2025
 Supervised By : Mahesh Dadoda 10/20/2025

Quant Time: Oct 18 01:18:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	68741	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.076	114	379209	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	339769	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	168041	31.393	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.633%			
60) 4-Bromofluorobenzene	12.823	95	167508	29.905	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.700%			
63) Toluene-d8	10.541	98	462055	30.523	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.733%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	68956	17.514	ug/l	99
3) Chloromethane	2.383	50	75993	17.024	ug/l	94
4) Vinyl Chloride	2.536	62	81232	17.453	ug/l	99
5) Bromomethane	2.983	94	44810	17.904	ug/l	100
6) Chloroethane	3.136	64	53814	17.527	ug/l	95
7) Trichlorofluoromethane	3.518	101	114592	18.105	ug/l	98
8) Diethyl Ether	3.965	74	50172	17.544	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	59829m	17.658	ug/l	
10) 1,1-Dichloroethene	4.336	96	63401	17.542	ug/l	97
11) Methyl Iodide	4.583	142	47047	14.123	ug/l	87
12) Methyl Acetate	5.018	43	106336	18.097	ug/l #	89
13) Acrolein	4.177	56	83661	92.008	ug/l #	7
14) Acrylonitrile	5.706	53	242849	85.644	ug/l	98
15) Acetone	4.424	58	75696	91.155	ug/l	90
16) Carbon Disulfide	4.706	76	194894	17.201	ug/l	98
17) Allyl chloride	5.012	41	117651	17.251	ug/l	96
18) Methylene Chloride	5.265	84	79827	17.377	ug/l	98
19) trans-1,2-Dichloroethene	5.777	96	73008	17.471	ug/l #	82
20) Diisopropyl ether	6.659	45	279601	18.007	ug/l	97
21) 1,1-Dichloroethane	6.553	63	144503	17.877	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	89581	17.125	ug/l	97
23) tert-Butyl Alcohol	5.518	59	88279	77.626	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	272797	17.486	ug/l	99
25) Chloroform	7.947	83	148031	17.747	ug/l	95
26) Cyclohexane	8.235	56	116788	17.439	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	97631	17.962	ug/l	97
30) 2-Butanone	7.465	43	359946	89.786	ug/l	99
31) 2,2-Dichloropropane	7.477	77	128404	18.334	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	123879	18.239	ug/l	98
33) Carbon Tetrachloride	8.341	117	100535	17.672	ug/l	97
34) Benzene	8.588	78	322407	17.882	ug/l	97
35) Methacrylonitrile	7.765	41	70160	16.643	ug/l	99
36) 1,2-Dichloroethane	8.653	62	115989	18.531	ug/l	98
37) Trichloroethene	9.329	130	72198	16.902	ug/l	93
38) Methylcyclohexane	9.582	83	114412	17.044	ug/l	96
39) 1,2-Dichloropropane	9.600	63	80429	17.791	ug/l	99
40) Dibromomethane	9.688	93	59612	18.115	ug/l	94
41) Bromodichloromethane	9.865	83	120031	17.860	ug/l	99
42) Vinyl Acetate	6.588	43	1261882	92.397	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	140816m	18.273	ug/l	
44) Isopropyl Acetate	8.671	43	218478	17.358	ug/l	97
45) 1,4-Dioxane	9.676	88	25094	299.765	ug/l #	91
46) Methyl methacrylate	9.665	41	104805m	18.908	ug/l	
47) n-amyl Acetate	12.588	43	121494m	20.365	ug/l	
48) t-1,3-Dichloropropene	10.818	75	130980	17.526	ug/l	95
49) cis-1,3-Dichloropropene	10.294	75	139016	17.833	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	75536	17.333	ug/l	97
51) Ethyl methacrylate	10.853	69	126407	17.140	ug/l	97
52) 1,3-Dichloropropane	11.141	76	137378	18.069	ug/l	99
53) Dibromochloromethane	11.335	129	92038	17.666	ug/l	98
54) 1,2-Dibromoethane	11.447	107	80058	17.184	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	353530	88.807	ug/l	98
56) Bromoform	12.559	173	57223	16.246	ug/l	96
58) 4-Methyl-2-Pentanone	10.423	43	661034	86.980	ug/l	98
59) 2-Hexanone	11.176	43	450152	89.713	ug/l	99
61) Tetrachloroethene	11.082	164	57616	16.745	ug/l	96
62) Toluene	10.606	91	339113	17.595	ug/l	99
64) Chlorobenzene	11.870	112	213944	17.379	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	74677	17.603	ug/l	98
66) Ethyl Benzene	11.941	91	369860	17.649	ug/l	100
67) m/p-Xylenes	12.047	106	283387	35.077	ug/l	97
68) o-Xylene	12.376	106	137374	17.081	ug/l	94
69) Styrene	12.388	104	230855	17.352	ug/l	99
70) Isopropylbenzene	12.670	105	342498	17.376	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	116626	17.452	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	111200m	17.917	ug/l	
73) Bromobenzene	12.959	156	80810	16.773	ug/l	93
74) n-propylbenzene	13.012	91	418345	17.581	ug/l	98
75) 2-Chlorotoluene	13.106	91	256739	17.646	ug/l	99
76) 1,3,5-Trimethylbenzene	13.147	105	292691	17.481	ug/l	98
77) t-1,4-Dichloro-2-butene	12.717	75	39570m	15.998	ug/l	
78) 4-Chlorotoluene	13.200	91	263876	17.851	ug/l	97
79) tert-butylbenzene	13.412	119	257431	17.735	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	292967	17.478	ug/l	96
81) sec-Butylbenzene	13.594	105	361492	17.713	ug/l	98
82) p-Isopropyltoluene	13.706	119	307176	17.630	ug/l	98
83) 1,3-Dichlorobenzene	13.711	146	155053	17.105	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	157460	16.843	ug/l	99
85) n-Butylbenzene	14.035	91	287279	17.722	ug/l	99
86) Hexachloroethane	14.306	117	61461	17.608	ug/l	88
87) 1,2-Dichlorobenzene	14.082	146	153219	17.185	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	26516	17.276	ug/l	91
89) 1,2,4-Trichlorobenzene	15.811	180	84590	15.928	ug/l	99
90) Hexachlorobutadiene	15.476	225	29490	15.955	ug/l	99
91) Naphthalene	15.611	128	314372	16.169	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	84590	15.928	ug/l	99

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

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