

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082025\
 Data File : VN087603.D
 Acq On : 20 Aug 2025 08:58
 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 08/21/2025
 Supervised By : Mahesh Dadoda 08/22/2025

Quant Time: Aug 21 02:38:13 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

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

Internal Standards						
1) Bromochloromethane	7.800	128	57702	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	317393	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	285286	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	154828	29.091	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.967%		
60) 4-Bromofluorobenzene	12.829	95	143397	29.208	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.367%		
63) Toluene-d8	10.547	98	400169	30.485	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.633%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	64994	17.252	ug/l	96
3) Chloromethane	2.389	50	65645	16.983	ug/l	100
4) Vinyl Chloride	2.542	62	74097	18.074	ug/l	99
5) Bromomethane	2.983	94	32239	14.529	ug/l	83
6) Chloroethane	3.136	64	48200	18.233	ug/l	93
7) Trichlorofluoromethane	3.506	101	107504	18.221	ug/l	100
8) Diethyl Ether	3.959	74	47338	19.259	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	61471	20.431	ug/l	69
10) 1,1-Dichloroethene	4.330	96	58689	18.571	ug/l	92
11) Methyl Iodide	4.583	142	28286m	11.367	ug/l	
12) Methyl Acetate	5.018	43	114130	19.570	ug/l	94
13) Acrolein	4.171	56	117000	131.353	ug/l	100
14) Acrylonitrile	5.706	53	222230	87.265	ug/l	98
15) Acetone	4.424	58	85509	117.518	ug/l	97
16) Carbon Disulfide	4.700	76	160975	16.421	ug/l #	94
17) Allyl chloride	5.006	41	103244	16.028	ug/l	95
18) Methylene Chloride	5.265	84	74219	18.243	ug/l	91
19) trans-1,2-Dichloroethene	5.765	96	64181	17.078	ug/l	96
20) Diisopropyl ether	6.659	45	250003	17.037	ug/l	98
21) 1,1-Dichloroethane	6.559	63	130342	17.184	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	80780	17.469	ug/l	99
23) tert-Butyl Alcohol	5.524	59	86789	80.203	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	243546	16.912	ug/l	97
25) Chloroform	7.947	83	140528	17.749	ug/l	99
26) Cyclohexane	8.241	56	102230	16.833	ug/l #	94
29) 1,1-Dichloropropene	8.353	75	88541	17.104	ug/l	98
30) 2-Butanone	7.471	43	341108	89.393	ug/l	99
31) 2,2-Dichloropropane	7.477	77	120550	18.055	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	115174	17.444	ug/l	98
33) Carbon Tetrachloride	8.341	117	95298	17.375	ug/l	96
34) Benzene	8.588	78	286111	17.509	ug/l	98
35) Methacrylonitrile	7.765	41	65681	15.951	ug/l	93
36) 1,2-Dichloroethane	8.653	62	113054	17.117	ug/l	100
37) Trichloroethene	9.335	130	64850	18.016	ug/l	100
38) Methylcyclohexane	9.582	83	100808	16.786	ug/l	98
39) 1,2-Dichloropropane	9.606	63	73002	17.424	ug/l	98
40) Dibromomethane	9.688	93	54522	17.344	ug/l	95
41) Bromodichloromethane	9.871	83	113859	17.431	ug/l	92
42) Vinyl Acetate	6.589	43	1022354	81.357	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	126086	17.104	ug/l	99
44) Isopropyl Acetate	8.677	43	208274	16.667	ug/l	98
45) 1,4-Dioxane	9.682	88	30660m	384.881	ug/l	
46) Methyl methacrylate	9.665	41	95204	16.140	ug/l	97
47) n-amyl Acetate	12.688	43	142320m	20.617	ug/l	
48) t-1,3-Dichloropropene	10.818	75	119093	16.758	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	123512	17.270	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	72151	18.166	ug/l	95
51) Ethyl methacrylate	10.859	69	116788	16.696	ug/l	90
52) 1,3-Dichloropropane	11.141	76	124808	17.442	ug/l	98
53) Dibromochloromethane	11.341	129	79944	17.429	ug/l	98
54) 1,2-Dibromoethane	11.447	107	72831	17.274	ug/l	96
55) 2-Chloroethyl vinyl ether	10.141	63	321490	87.306	ug/l	99
56) Bromoform	12.559	173	50513	16.650	ug/l #	99
58) 4-Methyl-2-Pentanone	10.424	43	642892	87.601	ug/l	99
59) 2-Hexanone	11.176	43	426791	85.590	ug/l	99
61) Tetrachloroethene	11.082	164	52177	18.773	ug/l	97
62) Toluene	10.612	91	311784	17.707	ug/l	100
64) Chlorobenzene	11.871	112	192641	17.805	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.941	131	68728	18.067	ug/l	97
66) Ethyl Benzene	11.941	91	336747	17.159	ug/l	97
67) m/p-Xylenes	12.053	106	254623	35.346	ug/l	96
68) o-Xylene	12.376	106	119101	16.805	ug/l	99
69) Styrene	12.388	104	208652	17.242	ug/l	98
70) Isopropylbenzene	12.676	105	313834	17.430	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	109327	17.721	ug/l	97
72) 1,2,3-Trichloropropane	12.970	75	96794m	16.842	ug/l	
73) Bromobenzene	12.959	156	75330	18.048	ug/l	95
74) n-propylbenzene	13.012	91	395838	17.603	ug/l	99
75) 2-Chlorotoluene	13.106	91	233365	16.871	ug/l	95
76) 1,3,5-Trimethylbenzene	13.153	105	265756	17.239	ug/l	96
77) t-1,4-Dichloro-2-butene	12.718	75	34633	15.919	ug/l	88
78) 4-Chlorotoluene	13.200	91	234404	16.723	ug/l	100
79) tert-butylbenzene	13.417	119	225259	17.330	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	273098	17.728	ug/l	98
81) sec-Butylbenzene	13.594	105	337055	17.813	ug/l	99
82) p-Isopropyltoluene	13.706	119	271115	17.256	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	144826	18.221	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	148953	18.485	ug/l	97
85) n-Butylbenzene	14.035	91	269017	17.501	ug/l	98
86) Hexachloroethane	14.306	117	52196	17.013	ug/l	95
87) 1,2-Dichlorobenzene	14.082	146	139471	18.383	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	27550	17.628	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	78757	17.369	ug/l	98
90) Hexachlorobutadiene	15.470	225	29180	16.550	ug/l	95
91) Naphthalene	15.611	128	291130	16.839	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	78757	17.369	ug/l	98

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

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