

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120525\
 Data File : VN088469.D
 Acq On : 05 Dec 2025 14:55
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Quant Time: Dec 05 23:39:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N11325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	56386	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.077	114	269767	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	251888	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.553	65	165148	32.064	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 106.867%	
60) 4-Bromofluorobenzene	12.823	95	128308	30.133	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.433%	
63) Toluene-d8	10.541	98	362266	30.378	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.267%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	61678	15.561	ug/l	98
3) Chloromethane	2.383	50	71475	17.490	ug/l	90
4) Vinyl Chloride	2.536	62	69981	16.195	ug/l	94
5) Bromomethane	2.989	94	30502	13.239	ug/l	86
6) Chloroethane	3.148	64	48314	18.089	ug/l	98
7) Trichlorofluoromethane	3.518	101	100236	16.546	ug/l	98
8) Diethyl Ether	3.965	74	44143	19.495	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.359	101	52259m	16.443	ug/l	
10) 1,1-Dichloroethene	4.342	96	51510	16.613	ug/l	98
11) Methyl Iodide	4.589	142	41797	12.667	ug/l	91
12) Methyl Acetate	5.012	43	105034	20.998	ug/l	98
13) Acrolein	4.177	56	76092	103.391	ug/l	99
14) Acrylonitrile	5.700	53	218220	96.007	ug/l	98
15) Acetone	4.412	58	63687	95.814	ug/l	89
16) Carbon Disulfide	4.706	76	171037	16.356	ug/l #	94
17) Allyl chloride	5.012	41	100553	16.688	ug/l	95
18) Methylene Chloride	5.259	84	74033	19.210	ug/l	94
19) trans-1,2-Dichloroethene	5.777	96	60017	16.623	ug/l	86
20) Diisopropyl ether	6.647	45	261819	20.335	ug/l	98
21) 1,1-Dichloroethane	6.553	63	136490	18.816	ug/l	99
22) cis-1,2-Dichloroethene	7.465	96	77652	18.504	ug/l	99
23) tert-Butyl Alcohol	5.506	59	67345	80.577	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	244788	19.581	ug/l	99
25) Chloroform	7.941	83	140989	19.615	ug/l	97
26) Cyclohexane	8.230	56	83255	13.588	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	85847	19.072	ug/l	97
30) 2-Butanone	7.459	43	305790	105.023	ug/l	100
31) 2,2-Dichloropropane	7.471	77	109815	19.780	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	111383	20.073	ug/l	99
33) Carbon Tetrachloride	8.336	117	89165	18.817	ug/l	95
34) Benzene	8.583	78	278573	20.705	ug/l	97
35) Methacrylonitrile	7.759	41	64855	21.354	ug/l	93
36) 1,2-Dichloroethane	8.647	62	122307	23.358	ug/l	99
37) Trichloroethene	9.330	130	59887	19.642	ug/l	93
38) Methylcyclohexane	9.577	83	72324	14.015	ug/l	95
39) 1,2-Dichloropropane	9.594	63	76591	22.065	ug/l	96
40) Dibromomethane	9.688	93	56540	22.670	ug/l	99
41) Bromodichloromethane	9.865	83	116007	23.106	ug/l	90
42) Vinyl Acetate	6.583	43	1152446	118.589	ug/l	97

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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Dec 05 23:39:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	126576	21.606	ug/l	96
44) Isopropyl Acetate	8.665	43	197975	21.928	ug/l	99
45) 1,4-Dioxane	9.677	88	21665	398.484	ug/l	91
46) Methyl methacrylate	9.659	41	84490	19.999	ug/l	92
47) n-amyl Acetate	12.553	43	102134m	22.325	ug/l	
48) t-1,3-Dichloropropene	10.812	75	107886	20.091	ug/l	97
49) cis-1,3-Dichloropropene	10.288	75	118513	21.211	ug/l	99
50) 1,1,2-Trichloroethane	10.988	97	71245	23.102	ug/l	93
51) Ethyl methacrylate	10.853	69	106318	20.954	ug/l	90
52) 1,3-Dichloropropane	11.135	76	125052	22.266	ug/l	100
53) Dibromochloromethane	11.335	129	78077	22.041	ug/l	97
54) 1,2-Dibromoethane	11.447	107	68333	21.326	ug/l	98
55) 2-Chloroethyl vinyl ether	10.135	63	286420	97.998	ug/l	99
56) Bromoform	12.553	173	47196	21.050	ug/l	99
58) 4-Methyl-2-Pentanone	10.418	43	619769	108.787	ug/l	100
59) 2-Hexanone	11.177	43	393874	104.116	ug/l	99
61) Tetrachloroethene	11.077	164	48757	18.774	ug/l	91
62) Toluene	10.606	91	289732	20.044	ug/l	99
64) Chlorobenzene	11.865	112	175898	19.648	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.935	131	64515	21.055	ug/l	96
66) Ethyl Benzene	11.935	91	289900	18.197	ug/l	95
67) m/p-Xylenes	12.047	106	224970	37.761	ug/l	100
68) o-Xylene	12.371	106	103521	18.420	ug/l	100
69) Styrene	12.388	104	179294	18.783	ug/l	99
70) Isopropylbenzene	12.671	105	256357	17.212	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.912	83	99065	20.533	ug/l	96
72) 1,2,3-Trichloropropane	12.971	75	93707m	20.049	ug/l	
73) Bromobenzene	12.959	156	67684	20.129	ug/l	99
74) n-propylbenzene	13.012	91	321449	17.439	ug/l	100
75) 2-Chlorotoluene	13.100	91	202032	18.025	ug/l	99
76) 1,3,5-Trimethylbenzene	13.147	105	218327	17.463	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	29159	18.166	ug/l	92
78) 4-Chlorotoluene	13.194	91	212640	18.722	ug/l	99
79) tert-butylbenzene	13.412	119	172791	16.143	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	221015	17.778	ug/l	98
81) sec-Butylbenzene	13.588	105	248110	15.892	ug/l	98
82) p-Isopropyltoluene	13.706	119	206828	16.032	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	126053	19.295	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	124615	18.835	ug/l	99
85) n-Butylbenzene	14.029	91	185942	15.123	ug/l	98
86) Hexachloroethane	14.306	117	37142	15.037	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	115966	18.806	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	21176	18.673	ug/l	95
89) 1,2,4-Trichlorobenzene	15.812	180	59709	17.255	ug/l	98
90) Hexachlorobutadiene	15.470	225	20258	15.075	ug/l	93
91) Naphthalene	15.612	128	211611	16.901	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	59709	17.255	ug/l	98

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

