

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112025\
 Data File : VN088318.D
 Acq On : 20 Nov 2025 09:49
 Operator : JC\MD
 Sample : VN1120WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1120WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/21/2025
 Supervised By : Semsettin Yesilyurt 11/21/2025

Quant Time: Nov 21 02:55:20 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)

Internal Standards						
1) Bromochloromethane	7.794	128	59336	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	313817	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	285258	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	156645	28.901	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.333%		
60) 4-Bromofluorobenzene	12.829	95	140335	29.102	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.000%		
63) Toluene-d8	10.547	98	410443	30.392	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.300%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	91916	22.037	ug/l	91
3) Chloromethane	2.383	50	92240	21.449	ug/l	98
4) Vinyl Chloride	2.536	62	97237	21.384	ug/l	99
5) Bromomethane	2.983	94	53062	21.885	ug/l	86
6) Chloroethane	3.142	64	58511	20.817	ug/l	95
7) Trichlorofluoromethane	3.512	101	139360	21.860	ug/l	97
8) Diethyl Ether	3.959	74	45208	18.973	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.365	101	76902	22.994	ug/l	84
10) 1,1-Dichloroethene	4.342	96	69972	21.445	ug/l	91
11) Methyl Iodide	4.583	142	66977	19.289	ug/l	89
12) Methyl Acetate	5.018	43	100705	19.131	ug/l	90
13) Acrolein	4.177	56	102499	132.348	ug/l	95
14) Acrylonitrile	5.706	53	231265	96.688	ug/l	99
15) Acetone	4.424	58	67801	96.932	ug/l	97
16) Carbon Disulfide	4.706	76	233972	21.262	ug/l	99
17) Allyl chloride	5.012	41	125056	19.723	ug/l	98
18) Methylene Chloride	5.265	84	84071	20.730	ug/l	99
19) trans-1,2-Dichloroethene	5.783	96	80907m	21.294	ug/l	
20) Diisopropyl ether	6.653	45	276142	20.381	ug/l	99
21) 1,1-Dichloroethane	6.553	63	155685	20.395	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	90042	20.390	ug/l	95
23) tert-Butyl Alcohol	5.506	59	71601	81.410	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	255754	19.441	ug/l	99
25) Chloroform	7.947	83	157347	20.803	ug/l	100
26) Cyclohexane	8.235	56	132443	20.541	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	110761	21.153	ug/l	99
30) 2-Butanone	7.465	43	322319	95.161	ug/l	100
31) 2,2-Dichloropropane	7.471	77	139482	21.597	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	137278	21.267	ug/l	96
33) Carbon Tetrachloride	8.341	117	120050	21.779	ug/l	97
34) Benzene	8.588	78	329140	21.029	ug/l	98
35) Methacrylonitrile	7.765	41	67777	19.184	ug/l	94
36) 1,2-Dichloroethane	8.647	62	123337	20.248	ug/l #	91
37) Trichloroethene	9.335	130	76881	21.676	ug/l	91
38) Methylcyclohexane	9.576	83	124809	20.791	ug/l	97
39) 1,2-Dichloropropane	9.600	63	86334	21.380	ug/l	91
40) Dibromomethane	9.688	93	59808	20.615	ug/l	96
41) Bromodichloromethane	9.865	83	125823	21.544	ug/l	94
42) Vinyl Acetate	6.588	43	1113408	98.490	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112025\
 Data File : VN088318.D
 Acq On : 20 Nov 2025 09:49
 Operator : JC\MD
 Sample : VN1120WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1120WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/21/2025
 Supervised By : Semsettin Yesilyurt 11/21/2025

Quant Time: Nov 21 02:55:20 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	7.547	43	134952	19.802	ug/l	97
44) Isopropyl Acetate	8.671	43	205399	19.557	ug/l	100
45) 1,4-Dioxane	9.676	88	23252	367.642	ug/l	98
46) Methyl methacrylate	9.659	41	95279	19.387	ug/l	93
47) n-amyl Acetate	12.535	43	94649m	17.784	ug/l	
48) t-1,3-Dichloropropene	10.818	75	124036	19.856	ug/l	95
49) cis-1,3-Dichloropropene	10.294	75	137078	21.090	ug/l	97
50) 1,1,2-Trichloroethane	10.994	97	76012	21.188	ug/l	96
51) Ethyl methacrylate	10.853	69	112814	19.114	ug/l	97
52) 1,3-Dichloropropane	11.141	76	133820	20.482	ug/l	100
53) Dibromochloromethane	11.335	129	88093	21.378	ug/l	100
54) 1,2-Dibromoethane	11.447	107	76209	20.445	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	308084	90.614	ug/l	99
56) Bromoform	12.559	173	53911	20.669	ug/l	99
58) 4-Methyl-2-Pentanone	10.423	43	649921	100.734	ug/l	99
59) 2-Hexanone	11.176	43	424810	99.158	ug/l	99
61) Tetrachloroethene	11.082	164	67056	22.800	ug/l	94
62) Toluene	10.606	91	344628	21.053	ug/l	99
64) Chlorobenzene	11.870	112	213258	21.035	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	73139	21.077	ug/l	97
66) Ethyl Benzene	11.941	91	373810	20.719	ug/l	97
67) m/p-Xylenes	12.047	106	278659	41.301	ug/l	99
68) o-Xylene	12.376	106	127302	20.001	ug/l	99
69) Styrene	12.388	104	218334	20.198	ug/l	98
70) Isopropylbenzene	12.670	105	348045	20.634	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	113576	20.787	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	111102m	20.990	ug/l	
73) Bromobenzene	12.959	156	81275	21.343	ug/l	93
74) n-propylbenzene	13.012	91	439519	21.056	ug/l	100
75) 2-Chlorotoluene	13.100	91	253473	19.970	ug/l	99
76) 1,3,5-Trimethylbenzene	13.147	105	293019	20.695	ug/l	100
77) t-1,4-Dichloro-2-butene	12.717	75	35527	19.545	ug/l	84
78) 4-Chlorotoluene	13.200	91	261153	20.303	ug/l	96
79) tert-butylbenzene	13.412	119	249424	20.576	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	291955	20.736	ug/l	99
81) sec-Butylbenzene	13.594	105	370417	20.950	ug/l	100
82) p-Isopropyltoluene	13.706	119	305244	20.893	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	156053	21.092	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	160164	21.376	ug/l	99
85) n-Butylbenzene	14.035	91	294695	21.165	ug/l	99
86) Hexachloroethane	14.306	117	60631	21.675	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	148376	21.247	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	24716	19.245	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	78572	20.050	ug/l	99
90) Hexachlorobutadiene	15.470	225	35705	23.461	ug/l	96
91) Naphthalene	15.611	128	273399	19.281	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	78572	20.050	ug/l	99

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

