

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
 Data File : VN088074.D
 Acq On : 20 Oct 2025 09:59
 Operator : JC\MD
 Sample : VN1020WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1020WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/21/2025
 Supervised By : Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 21 05:36:07 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	60658	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	347224	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	306757	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	154203	32.647	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.833%			
60) 4-Bromofluorobenzene	12.829	95	151279	29.914	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.700%			
63) Toluene-d8	10.547	98	421850	30.866	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	73964	21.289	ug/l	91
3) Chloromethane	2.383	50	75850	19.256	ug/l	99
4) Vinyl Chloride	2.536	62	82961	20.199	ug/l	96
5) Bromomethane	2.983	94	48866	22.126	ug/l	95
6) Chloroethane	3.136	64	57688	21.293	ug/l	100
7) Trichlorofluoromethane	3.512	101	131527	23.550	ug/l	99
8) Diethyl Ether	3.965	74	50400	19.972	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	63501	21.239	ug/l	99
10) 1,1-Dichloroethene	4.336	96	65198	20.443	ug/l	97
11) Methyl Iodide	4.577	142	50077	17.036	ug/l	89
12) Methyl Acetate	5.018	43	108849	20.994	ug/l #	86
13) Acrolein	4.177	56	99973	124.599	ug/l #	4
14) Acrylonitrile	5.706	53	232326	92.851	ug/l	99
15) Acetone	4.424	58	63959	87.284	ug/l	75
16) Carbon Disulfide	4.706	76	195044	19.508	ug/l	97
17) Allyl chloride	5.006	41	118771	19.735	ug/l	98
18) Methylene Chloride	5.265	84	77592	19.142	ug/l	95
19) trans-1,2-Dichloroethene	5.777	96	73354	19.893	ug/l #	85
20) Diisopropyl ether	6.659	45	268318	19.584	ug/l	98
21) 1,1-Dichloroethane	6.553	63	144161	20.212	ug/l	96
22) cis-1,2-Dichloroethene	7.471	96	88655	19.206	ug/l	96
23) tert-Butyl Alcohol	5.524	59	86655	86.352	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	256271	18.616	ug/l	97
25) Chloroform	7.947	83	146738	19.936	ug/l	99
26) Cyclohexane	8.235	56	120208	20.341	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	100127	20.118	ug/l	97
30) 2-Butanone	7.471	43	329983	89.895	ug/l	98
31) 2,2-Dichloropropane	7.471	77	131423	20.493	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	125108	20.117	ug/l	98
33) Carbon Tetrachloride	8.347	117	106345	20.415	ug/l	95
34) Benzene	8.588	78	314627	19.058	ug/l	98
35) Methacrylonitrile	7.759	41	68795	17.822	ug/l	95
36) 1,2-Dichloroethane	8.653	62	113983	19.888	ug/l	98
37) Trichloroethene	9.335	130	72163	18.450	ug/l	99
38) Methylcyclohexane	9.576	83	124458	20.249	ug/l	96
39) 1,2-Dichloropropane	9.600	63	79188	19.130	ug/l	99
40) Dibromomethane	9.688	93	58171	19.306	ug/l	93
41) Bromodichloromethane	9.865	83	119145	19.361	ug/l	95
42) Vinyl Acetate	6.588	43	1094358	87.512	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	135952	19.267	ug/l	97
44) Isopropyl Acetate	8.671	43	214453	18.608	ug/l	99
45) 1,4-Dioxane	9.682	88	28095	366.530	ug/l #	96
46) Methyl methacrylate	9.665	41	92930	18.310	ug/l	96
47) n-amyl Acetate	12.682	43	99158m	18.152	ug/l	
48) t-1,3-Dichloropropene	10.818	75	127369	18.613	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	132466	18.558	ug/l	91
50) 1,1,2-Trichloroethane	10.994	97	73749	18.482	ug/l	98
51) Ethyl methacrylate	10.859	69	117815	17.446	ug/l	94
52) 1,3-Dichloropropane	11.141	76	132164	18.984	ug/l	98
53) Dibromochloromethane	11.335	129	87083	18.255	ug/l	100
54) 1,2-Dibromoethane	11.447	107	76862	18.017	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	340184	93.326	ug/l	98
56) Bromoform	12.559	173	55080	17.078	ug/l	99
58) 4-Methyl-2-Pentanone	10.423	43	647557	94.377	ug/l	97
59) 2-Hexanone	11.176	43	414009	91.389	ug/l	100
61) Tetrachloroethene	11.082	164	57113	18.385	ug/l	92
62) Toluene	10.612	91	334718	19.236	ug/l	99
64) Chlorobenzene	11.870	112	209748	18.872	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.941	131	72283	18.872	ug/l	98
66) Ethyl Benzene	11.941	91	369603	19.535	ug/l	99
67) m/p-Xylenes	12.047	106	275804	37.812	ug/l	94
68) o-Xylene	12.376	106	137312	18.911	ug/l	96
69) Styrene	12.388	104	224496	18.690	ug/l	98
70) Isopropylbenzene	12.676	105	349264	19.626	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.917	83	115517	19.146	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	116390m	20.771	ug/l	
73) Bromobenzene	12.959	156	78124	17.961	ug/l	90
74) n-propylbenzene	13.011	91	439192	20.443	ug/l	97
75) 2-Chlorotoluene	13.100	91	261846	19.933	ug/l	96
76) 1,3,5-Trimethylbenzene	13.153	105	295100	19.521	ug/l	96
77) t-1,4-Dichloro-2-butene	12.717	75	38288	17.146	ug/l	90
78) 4-Chlorotoluene	13.200	91	269022	20.158	ug/l	96
79) tert-butylbenzene	13.411	119	263204	20.085	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	291408	19.256	ug/l	98
81) sec-Butylbenzene	13.594	105	379108	20.576	ug/l	98
82) p-Isopropyltoluene	13.706	119	311744	19.817	ug/l	98
83) 1,3-Dichlorobenzene	13.711	146	156199	19.086	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	158769	18.811	ug/l	99
85) n-Butylbenzene	14.035	91	305551	20.878	ug/l	98
86) Hexachloroethane	14.311	117	62227	19.746	ug/l	87
87) 1,2-Dichlorobenzene	14.082	146	148277	18.420	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	27191	19.623	ug/l	89
89) 1,2,4-Trichlorobenzene	15.811	180	83563	17.428	ug/l	98
90) Hexachlorobutadiene	15.476	225	31500	18.876	ug/l	96
91) Naphthalene	15.611	128	309283	17.619	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	83563	17.428	ug/l	98

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

