

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
 Data File : VN088057.D
 Acq On : 17 Oct 2025 10:36
 Operator : JC\MD
 Sample : VN1017WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1017WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Oct 18 01:26:13 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	7.800	128	65413	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	359810	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	319803	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	160373	31.485	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	104.967%		
60) 4-Bromofluorobenzene	12.829	95	157631	29.899	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.667%		
63) Toluene-d8	10.547	98	435417	30.559	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.867%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	78833	21.041	ug/l	93
3) Chloromethane	2.383	50	80807	19.024	ug/l	99
4) Vinyl Chloride	2.536	62	87603	19.779	ug/l	100
5) Bromomethane	2.983	94	48410	20.326	ug/l	98
6) Chloroethane	3.142	64	55974	19.158	ug/l	99
7) Trichlorofluoromethane	3.518	101	129328	21.473	ug/l	99
8) Diethyl Ether	3.959	74	53446	19.639	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	68415	21.220	ug/l	97
10) 1,1-Dichloroethene	4.342	96	68376	19.881	ug/l	99
11) Methyl Iodide	4.583	142	54630	17.234	ug/l	95
12) Methyl Acetate	5.018	43	112344	20.093	ug/l	94
13) Acrolein	4.177	56	79427	91.796	ug/l #	8
14) Acrylonitrile	5.706	53	244395	90.575	ug/l	98
15) Acetone	4.424	58	73551	93.078	ug/l	88
16) Carbon Disulfide	4.706	76	209149	19.399	ug/l	98
17) Allyl chloride	5.012	41	121814	18.770	ug/l	96
18) Methylene Chloride	5.265	84	83118	19.014	ug/l	93
19) trans-1,2-Dichloroethene	5.771	96	76791	19.311	ug/l	88
20) Diisopropyl ether	6.659	45	285092	19.295	ug/l	96
21) 1,1-Dichloroethane	6.553	63	156888	20.397	ug/l	96
22) cis-1,2-Dichloroethene	7.471	96	93825	18.849	ug/l	94
23) tert-Butyl Alcohol	5.518	59	89595	82.791	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	284030	19.132	ug/l	100
25) Chloroform	7.947	83	155760	19.624	ug/l	97
26) Cyclohexane	8.241	56	129096	20.257	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	107684	20.879	ug/l	95
30) 2-Butanone	7.465	43	358092	94.140	ug/l	98
31) 2,2-Dichloropropane	7.471	77	135758	20.429	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	130885	20.309	ug/l	97
33) Carbon Tetrachloride	8.341	117	109382	20.263	ug/l	95
34) Benzene	8.583	78	329461	19.259	ug/l	96
35) Methacrylonitrile	7.759	41	74397	18.599	ug/l	92
36) 1,2-Dichloroethane	8.653	62	121966	20.537	ug/l	98
37) Trichloroethene	9.330	130	75152	18.542	ug/l	93
38) Methylcyclohexane	9.577	83	131631	20.667	ug/l	96
39) 1,2-Dichloropropane	9.600	63	85728	19.986	ug/l	100
40) Dibromomethane	9.688	93	62068	19.878	ug/l	93
41) Bromodichloromethane	9.865	83	125840	19.733	ug/l	99
42) Vinyl Acetate	6.589	43	1333455	102.902	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	147140	20.123	ug/l	96
44) Isopropyl Acetate	8.671	43	231811	19.410	ug/l	98
45) 1,4-Dioxane	9.677	88	26935	339.104	ug/l #	94
46) Methyl methacrylate	9.659	41	102432	19.476	ug/l	94
47) n-amyl Acetate	12.594	43	131961m	23.312	ug/l	
48) t-1,3-Dichloropropene	10.818	75	135939	19.170	ug/l	98
49) cis-1,3-Dichloropropene	10.288	75	146225	19.769	ug/l	92
50) 1,1,2-Trichloroethane	10.994	97	78475	18.979	ug/l	94
51) Ethyl methacrylate	10.859	69	135539	19.369	ug/l	96
52) 1,3-Dichloropropane	11.141	76	144001	19.961	ug/l	100
53) Dibromochloromethane	11.335	129	92926	18.798	ug/l	99
54) 1,2-Dibromoethane	11.447	107	80897	18.300	ug/l	96
55) 2-Chloroethyl vinyl ether	10.141	63	345576	91.489	ug/l	98
56) Bromoform	12.565	173	58921	17.630	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	684259	95.657	ug/l	98
59) 2-Hexanone	11.176	43	453352	95.992	ug/l	99
61) Tetrachloroethene	11.082	164	61856	19.100	ug/l	88
62) Toluene	10.612	91	354587	19.547	ug/l	100
64) Chlorobenzene	11.871	112	224911	19.411	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.935	131	76567	19.175	ug/l	95
66) Ethyl Benzene	11.941	91	390582	19.801	ug/l	99
67) m/p-Xylenes	12.047	106	298777	39.291	ug/l	97
68) o-Xylene	12.376	106	146619	19.369	ug/l	96
69) Styrene	12.388	104	238932	19.081	ug/l	99
70) Isopropylbenzene	12.671	105	373836	20.149	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	121382	19.297	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	119252m	20.414	ug/l	
73) Bromobenzene	12.959	156	84476	18.629	ug/l	93
74) n-propylbenzene	13.012	91	458411	20.467	ug/l	98
75) 2-Chlorotoluene	13.100	91	270316	19.739	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	314783	19.974	ug/l	97
77) t-1,4-Dichloro-2-butene	12.723	75	42042	18.059	ug/l	91
78) 4-Chlorotoluene	13.200	91	277549	19.949	ug/l	98
79) tert-butylbenzene	13.418	119	276568	20.243	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	311676	19.755	ug/l	97
81) sec-Butylbenzene	13.594	105	398977	20.771	ug/l	97
82) p-Isopropyltoluene	13.706	119	337559	20.583	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	163469	19.160	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	171817	19.527	ug/l	98
85) n-Butylbenzene	14.035	91	318876	20.899	ug/l	97
86) Hexachloroethane	14.306	117	66012	20.093	ug/l	88
87) 1,2-Dichlorobenzene	14.082	146	157781	18.801	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	26957	18.660	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	90270	18.059	ug/l	96
90) Hexachlorobutadiene	15.470	225	33868	19.467	ug/l	97
91) Naphthalene	15.611	128	336619	18.394	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	90270	18.059	ug/l	96

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

