

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111425\
 Data File : VN088284.D
 Acq On : 14 Nov 2025 10:17
 Operator : JC\MD
 Sample : VN1114WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/17/2025
 Supervised By : Mahesh Dadoda 11/17/2025

Quant Time: Nov 14 21:48:26 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	57783	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	307983	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	272076	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	155790	29.516	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.400%		
60) 4-Bromofluorobenzene	12.829	95	137356	29.865	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.533%		
63) Toluene-d8	10.547	98	393467	30.546	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.833%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	80968	19.934	ug/l	96
3) Chloromethane	2.383	50	81366	19.429	ug/l	94
4) Vinyl Chloride	2.536	62	83831	18.931	ug/l	96
5) Bromomethane	2.983	94	47613	20.165	ug/l	92
6) Chloroethane	3.142	64	52264	19.095	ug/l	94
7) Trichlorofluoromethane	3.512	101	120249	19.369	ug/l	93
8) Diethyl Ether	3.965	74	46423	20.006	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	62918	19.318	ug/l	99
10) 1,1-Dichloroethene	4.342	96	60609	19.075	ug/l	82
11) Methyl Iodide	4.583	142	61778	18.270	ug/l	93
12) Methyl Acetate	5.018	43	101813	19.862	ug/l	95
13) Acrolein	4.171	56	69495	92.145	ug/l	99
14) Acrylonitrile	5.706	53	228243	97.989	ug/l	98
15) Acetone	4.424	58	65068	95.525	ug/l	100
16) Carbon Disulfide	4.706	76	205379	19.165	ug/l	98
17) Allyl chloride	5.012	41	119625	19.374	ug/l	97
18) Methylene Chloride	5.265	84	77218	19.552	ug/l	97
19) trans-1,2-Dichloroethene	5.771	96	71150	19.230	ug/l	97
20) Diisopropyl ether	6.659	45	257638	19.526	ug/l	94
21) 1,1-Dichloroethane	6.553	63	141989	19.101	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	82202	19.115	ug/l	96
23) tert-Butyl Alcohol	5.524	59	79534	92.861	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	252525	19.712	ug/l	99
25) Chloroform	7.947	83	143969	19.546	ug/l	99
26) Cyclohexane	8.241	56	118545	18.880	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	99226	19.309	ug/l	85
30) 2-Butanone	7.471	43	319102	95.996	ug/l #	94
31) 2,2-Dichloropropane	7.477	77	120658	19.037	ug/l	96
32) 1,1,1-Trichloroethane	8.147	97	122238	19.296	ug/l	98
33) Carbon Tetrachloride	8.341	117	105234	19.453	ug/l	94
34) Benzene	8.583	78	294535	19.175	ug/l #	95
35) Methacrylonitrile	7.759	41	66657	19.224	ug/l	97
36) 1,2-Dichloroethane	8.653	62	119644	20.014	ug/l	99
37) Trichloroethene	9.335	130	67942	19.519	ug/l	98
38) Methylcyclohexane	9.582	83	109116	18.521	ug/l	96
39) 1,2-Dichloropropane	9.600	63	78656	19.848	ug/l	92
40) Dibromomethane	9.688	93	56111	19.707	ug/l	98
41) Bromodichloromethane	9.865	83	116185	20.270	ug/l	98
42) Vinyl Acetate	6.589	43	1204630	108.578	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	128600	19.228	ug/l	99
44) Isopropyl Acetate	8.671	43	204470	19.837	ug/l	100
45) 1,4-Dioxane	9.677	88	23446	377.731	ug/l	95
46) Methyl methacrylate	9.659	41	91015	18.870	ug/l	94
47) n-amyl Acetate	12.676	43	86844m	16.627	ug/l	
48) t-1,3-Dichloropropene	10.818	75	115520	18.843	ug/l	98
49) cis-1,3-Dichloropropene	10.288	75	125386	19.657	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	69203	19.656	ug/l	96
51) Ethyl methacrylate	10.859	69	109503	18.904	ug/l	97
52) 1,3-Dichloropropane	11.141	76	126059	19.660	ug/l	100
53) Dibromochloromethane	11.341	129	78172	19.330	ug/l	98
54) 1,2-Dibromoethane	11.447	107	72255	19.752	ug/l	95
55) 2-Chloroethyl vinyl ether	10.141	63	303144	90.850	ug/l	99
56) Bromoform	12.559	173	49476	19.328	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	625864	101.706	ug/l	100
59) 2-Hexanone	11.176	43	395404	96.765	ug/l	100
61) Tetrachloroethene	11.082	164	55988	19.959	ug/l	94
62) Toluene	10.612	91	312483	20.014	ug/l	99
64) Chlorobenzene	11.871	112	189846	19.633	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.941	131	65838	19.892	ug/l	97
66) Ethyl Benzene	11.941	91	337712	19.625	ug/l	98
67) m/p-Xylenes	12.047	106	248368	38.595	ug/l	100
68) o-Xylene	12.376	106	118994	19.602	ug/l	98
69) Styrene	12.388	104	196508	19.059	ug/l	99
70) Isopropylbenzene	12.676	105	309649	19.247	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	104657	20.083	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	105923m	20.981	ug/l	
73) Bromobenzene	12.965	156	71421	19.664	ug/l	100
74) n-propylbenzene	13.012	91	378570	19.014	ug/l	99
75) 2-Chlorotoluene	13.106	91	231421	19.116	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	264183	19.563	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	32958	19.010	ug/l	92
78) 4-Chlorotoluene	13.200	91	245229	19.989	ug/l	98
79) tert-butylbenzene	13.412	119	221103	19.123	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	261739	19.491	ug/l	100
81) sec-Butylbenzene	13.594	105	324141	19.221	ug/l	99
82) p-Isopropyltoluene	13.706	119	268941	19.300	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	140576	19.921	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	137586	19.252	ug/l	98
85) n-Butylbenzene	14.035	91	260428	19.610	ug/l	99
86) Hexachloroethane	14.312	117	51286	19.222	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	134359	20.172	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	23624	19.286	ug/l	99
89) 1,2,4-Trichlorobenzene	15.811	180	72424	19.376	ug/l	98
90) Hexachlorobutadiene	15.470	225	29560	20.364	ug/l	97
91) Naphthalene	15.617	128	258514	19.115	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	72424	19.376	ug/l	98

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

