

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086250.D
 Acq On : 11 Apr 2025 15:16
 Operator : JC\MD
 Sample : VN0411WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:49:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	34735	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	202525	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	180363	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	102343	30.208	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.700%			
60) 4-Bromofluorobenzene	12.847	95	106256	29.590	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.633%			
63) Toluene-d8	10.565	98	303469	29.803	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	56086	20.153	ug/l	92
3) Chloromethane	2.359	50	73828	19.194	ug/l	98
4) Vinyl Chloride	2.518	62	70644	19.281	ug/l	93
5) Bromomethane	2.965	94	35079	19.194	ug/l	100
6) Chloroethane	3.124	64	44166	19.089	ug/l	96
7) Trichlorofluoromethane	3.500	101	77277	19.443	ug/l	96
8) Diethyl Ether	3.959	74	38725	21.128	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	48170	19.655	ug/l	98
10) 1,1-Dichloroethene	4.341	96	50453	19.075	ug/l	98
11) Methyl Iodide	4.589	142	58142	19.126	ug/l	99
12) Methyl Acetate	5.018	43	77938	20.867	ug/l	99
13) Acrolein	4.177	56	41459	97.652	ug/l	95
14) Acrylonitrile	5.718	53	157824	100.092	ug/l	98
15) Acetone	4.424	58	40914	102.336	ug/l	90
16) Carbon Disulfide	4.712	76	144392	19.038	ug/l	98
17) Allyl chloride	5.018	41	93530	20.289	ug/l	96
18) Methylene Chloride	5.271	84	60034	19.908	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	52359	18.794	ug/l	97
20) Diisopropyl ether	6.671	45	208832	21.072	ug/l	97
21) 1,1-Dichloroethane	6.565	63	106033	20.053	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	65216	19.651	ug/l	99
23) tert-Butyl Alcohol	5.512	59	63490	97.177	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	201155	21.074	ug/l	98
25) Chloroform	7.965	83	100265	19.885	ug/l	96
26) Cyclohexane	8.253	56	95525	19.310	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	74865	20.635	ug/l	98
30) 2-Butanone	7.477	43	214454	106.676	ug/l	100
31) 2,2-Dichloropropane	7.488	77	92014	20.604	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	84856	20.333	ug/l	99
33) Carbon Tetrachloride	8.359	117	68854	20.645	ug/l	98
34) Benzene	8.606	78	240477	20.834	ug/l	97
35) Methacrylonitrile	7.777	41	48115	21.230	ug/l	97
36) 1,2-Dichloroethane	8.671	62	77436	21.439	ug/l	99
37) Trichloroethene	9.347	130	57010	20.471	ug/l	97
38) Methylcyclohexane	9.600	83	89548	20.125	ug/l	99
39) 1,2-Dichloropropane	9.618	63	61439	21.392	ug/l	96
40) Dibromomethane	9.706	93	39298	21.185	ug/l	99
41) Bromodichloromethane	9.888	83	84468	21.197	ug/l	98
42) Vinyl Acetate	6.600	43	753748	110.147	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	84905	20.939	ug/l	95
44) Isopropyl Acetate	8.682	43	160910	21.391	ug/l	99
45) 1,4-Dioxane	9.688	88	23420	391.526	ug/l #	91
46) Methyl methacrylate	9.676	41	69895	21.088	ug/l	96
47) n-amyl Acetate	12.488	43	126575	21.222	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	96458	21.411	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	102066	21.406	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	56096	21.561	ug/l	97
51) Ethyl methacrylate	10.870	69	105140	21.747	ug/l	97
52) 1,3-Dichloropropane	11.159	76	101323	21.850	ug/l	100
53) Dibromochloromethane	11.359	129	61771	21.706	ug/l	98
54) 1,2-Dibromoethane	11.465	107	56526	21.523	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	254446	139.276	ug/l	99
56) Bromoform	12.576	173	38804	20.842	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	446372	109.058	ug/l	99
59) 2-Hexanone	11.194	43	321747	105.569	ug/l	100
61) Tetrachloroethene	11.100	164	53974	20.264	ug/l	97
62) Toluene	10.629	91	250492	20.706	ug/l	100
64) Chlorobenzene	11.888	112	152512	20.635	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	51756	21.219	ug/l	99
66) Ethyl Benzene	11.959	91	271487	20.236	ug/l	96
67) m/p-Xylenes	12.070	106	203138	40.720	ug/l	100
68) o-Xylene	12.394	106	102269	20.842	ug/l	97
69) Styrene	12.406	104	172721	20.872	ug/l	98
70) Isopropylbenzene	12.694	105	247015	20.417	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	74426	21.612	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	76312m	21.289	ug/l	
73) Bromobenzene	12.976	156	55372	20.660	ug/l	97
74) n-propylbenzene	13.035	91	290430	20.330	ug/l	99
75) 2-Chlorotoluene	13.123	91	180253	20.074	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	203242	20.450	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	33778	20.436	ug/l	92
78) 4-Chlorotoluene	13.217	91	179336	19.997	ug/l	99
79) tert-butylbenzene	13.435	119	170326	19.806	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	206236	20.464	ug/l	98
81) sec-Butylbenzene	13.611	105	242336	20.202	ug/l	100
82) p-Isopropyltoluene	13.723	119	201123	20.098	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	101287	20.332	ug/l	98
84) 1,4-Dichlorobenzene	13.811	146	100671	20.144	ug/l	99
85) n-Butylbenzene	14.053	91	183068	20.279	ug/l	99
86) Hexachloroethane	14.329	117	32907	19.494	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	100901	20.514	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16110	20.539	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	48993	20.472	ug/l	99
90) Hexachlorobutadiene	15.494	225	19853	19.213	ug/l	99
91) Naphthalene	15.635	128	194900	20.655	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	48993	20.472	ug/l	99

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

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