

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070033.D
 Acq On : 13 Dec 2021 15:33
 Operator : JC/MD
 Sample : VN1213WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/14/2021
 Supervised By : Amit Patel 12/15/2021

Quant Time: Dec 14 05:26:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Dec 14 00:59:04 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	170587	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	933946	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	846682	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	454443	30.061	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.200%			
60) 4-Bromofluorobenzene	12.731	95	415908	29.853	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.500%			
63) Toluene-d8	10.440	98	1204560	30.786	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.633%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	262772	21.227	ug/l	99
3) Chloromethane	2.303	50	295041	20.807	ug/l	97
4) Vinyl Chloride	2.445	62	269846	20.225	ug/l	100
5) Bromomethane	2.858	94	147659	20.246	ug/l	98
6) Chloroethane	3.022	64	153892	20.088	ug/l	97
7) Trichlorofluoromethane	3.376	101	353314	20.284	ug/l	99
8) Diethyl Ether	3.824	74	134636	19.480	ug/l	73
9) 1,1,2-Trichlorotrifluo...	4.207	101	207172	20.249	ug/l #	70
10) 1,1-Dichloroethene	4.181	96	191054	19.632	ug/l	82
11) Methyl Iodide	4.419	142	263212	19.329	ug/l	98
12) Methyl Acetate	4.857	43	501761m	20.931	ug/l	
13) Acrolein	4.041	56	173779	89.558	ug/l	100
14) Acrylonitrile	5.554	53	706119	102.018	ug/l	98
15) Acetone	4.288	58	219468	87.383	ug/l	74
16) Carbon Disulfide	4.529	76	572537	19.525	ug/l	98
17) Allyl chloride	4.840	41	434232	19.840	ug/l	87
18) Methylene Chloride	5.090	84	235807	20.101	ug/l #	81
19) trans-1,2-Dichloroethene	5.594	96	208156	20.137	ug/l #	83
20) Diisopropyl ether	6.498	45	850749	20.296	ug/l #	93
21) 1,1-Dichloroethane	6.385	63	441299	19.971	ug/l	97
22) cis-1,2-Dichloroethene	7.324	96	245427	20.060	ug/l	90
23) tert-Butyl Alcohol	5.374	59	219670	100.399	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	701871	20.310	ug/l	94
25) Chloroform	7.817	83	438148	19.957	ug/l	100
26) Cyclohexane	8.094	56	402419	19.674	ug/l #	84
29) 1,1-Dichloropropene	8.222	75	321904	20.018	ug/l	96
30) 2-Butanone	7.337	43	1064280	96.194	ug/l #	91
31) 2,2-Dichloropropane	7.327	77	328326	19.524	ug/l	97
32) 1,1,1-Trichloroethane	8.016	97	372388	19.995	ug/l	93
33) Carbon Tetrachloride	8.209	117	327916	19.807	ug/l	98
34) Benzene	8.461	78	956797	20.125	ug/l #	95
35) Methacrylonitrile	7.638	41	214095	20.919	ug/l	87
36) 1,2-Dichloroethane	8.531	62	380909	20.297	ug/l	98
37) Trichloroethene	9.215	130	227215	20.093	ug/l	93
38) Methylcyclohexane	9.459	83	378056	19.778	ug/l	88
39) 1,2-Dichloropropane	9.488	63	258999	20.434	ug/l	100
40) Dibromomethane	9.577	93	168504	20.154	ug/l	96
41) Bromodichloromethane	9.762	83	349246	19.755	ug/l	95
42) Vinyl Acetate	6.436	43	3291714	101.281	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	386732	20.124	ug/l	97
44) Isopropyl Acetate	8.560	43	628894	20.331	ug/l	94
45) 1,4-Dioxane	9.569	88	101589	464.090	ug/l	88
46) Methyl methacrylate	9.561	41	313262	21.383	ug/l	81
47) n-amyl Acetate	12.387	43	408565	18.940	ug/l	100
48) t-1,3-Dichloropropene	10.719	75	339222	19.077	ug/l	100
49) cis-1,3-Dichloropropene	10.188	75	378964	19.638	ug/l	93
50) 1,1,2-Trichloroethane	10.896	97	230220	20.258	ug/l	96
51) Ethyl methacrylate	10.760	69	360546	19.850	ug/l	89
52) 1,3-Dichloropropane	11.044	76	407335	20.243	ug/l	100
53) Dibromochloromethane	11.240	129	249254	19.525	ug/l	99
54) 1,2-Dibromoethane	11.344	107	230455	19.903	ug/l	97
55) 2-Chloroethyl vinyl ether	10.041	63	319495	89.727	ug/l	96
56) Bromoform	12.457	173	182275	18.753	ug/l #	98
58) 4-Methyl-2-Pentanone	10.330	43	2052652	105.626	ug/l #	93
59) 2-Hexanone	11.084	43	1443641	100.485	ug/l	95
61) Tetrachloroethene	10.977	164	201835	20.410	ug/l	94
62) Toluene	10.505	91	1019991	20.484	ug/l	98
64) Chlorobenzene	11.771	112	593568	20.086	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.840	131	223383	20.069	ug/l	99
66) Ethyl Benzene	11.843	91	1117216	20.182	ug/l	100
67) m/p-Xylenes	11.953	106	819933	40.541	ug/l	93
68) o-Xylene	12.280	106	403022	20.140	ug/l	94
69) Styrene	12.294	104	649649	19.918	ug/l	96
70) Isopropylbenzene	12.578	105	1062398	20.235	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	357896	20.784	ug/l	97
72) 1,2,3-Trichloropropane	12.881	75	315155m	19.668	ug/l	
73) Bromobenzene	12.860	156	242903	19.935	ug/l	92
74) n-propylbenzene	12.921	91	1213826	19.946	ug/l	99
75) 2-Chlorotoluene	13.007	91	753528	20.235	ug/l	95
76) 1,3,5-Trimethylbenzene	13.058	105	867330	20.106	ug/l	100
77) t-1,4-Dichloro-2-butene	12.626	75	94062	18.667	ug/l	86
78) 4-Chlorotoluene	13.104	91	708718	19.846	ug/l	95
79) tert-butylbenzene	13.323	119	738697	19.732	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	847448m	20.316	ug/l	
81) sec-Butylbenzene	13.501	105	1035793	19.828	ug/l	99
82) p-Isopropyltoluene	13.616	119	826074	19.848	ug/l	100
83) 1,3-Dichlorobenzene	13.616	146	413272	20.054	ug/l	99
84) 1,4-Dichlorobenzene	13.694	146	393829	19.868	ug/l	98
85) n-Butylbenzene	13.943	91	643410	18.504	ug/l	99
86) Hexachloroethane	14.211	117	156125	18.803	ug/l	87
87) 1,2-Dichlorobenzene	13.989	146	406504	20.533	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.603	75	66149	20.082	ug/l	93
89) 1,2,4-Trichlorobenzene	15.263	180	173848	18.876	ug/l	97
90) Hexachlorobutadiene	15.370	225	114869	20.956	ug/l	98
91) Naphthalene	15.507	128	415614	20.236	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	165753	19.048	ug/l	99

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

