

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069138.D
 Acq On : 22 Oct 2021 16:43
 Operator : JC/MD
 Sample : VN1022WBS02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1022WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/25/2021
 Supervised By : Mahesh Dadoda 10/25/2021

Quant Time: Oct 23 07:55:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 13:15:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	51794	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	308837	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	281632	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	123929	30.720	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.400%			
60) 4-Bromofluorobenzene	12.733	95	142574	29.524	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.400%			
63) Toluene-d8	10.443	98	384317	30.203	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.667%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.075	85	79729	23.281	ug/l	98
3) Chloromethane	2.303	50	80911	22.725	ug/l	96
4) Vinyl Chloride	2.445	62	91306	21.514	ug/l	98
5) Bromomethane	2.866	94	65135	23.400	ug/l	97
6) Chloroethane	3.022	64	59073	21.473	ug/l	99
7) Trichlorofluoromethane	3.379	101	123472	22.467	ug/l	97
8) Diethyl Ether	3.829	74	43746	22.482	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.218	101	67879	22.734	ug/l #	70
10) 1,1-Dichloroethene	4.189	96	63724	21.876	ug/l	97
11) Methyl Iodide	4.427	142	82699	20.191	ug/l	96
12) Methyl Acetate	4.859	43	114167	20.579	ug/l	98
13) Acrolein	4.046	56	27686	82.833	ug/l	98
14) Acrylonitrile	5.556	53	161708	102.726	ug/l	98
15) Acetone	4.290	58	51587	104.833	ug/l	95
16) Carbon Disulfide	4.537	76	165047	21.086	ug/l	99
17) Allyl chloride	4.846	41	105405	21.012	ug/l	93
18) Methylene Chloride	5.100	84	78202	22.592	ug/l	99
19) trans-1,2-Dichloroethene	5.602	96	68618	21.693	ug/l	94
20) Diisopropyl ether	6.495	45	228281	21.304	ug/l	96
21) 1,1-Dichloroethane	6.388	63	129244	21.609	ug/l	98
22) cis-1,2-Dichloroethene	7.326	96	82422	21.739	ug/l	99
23) tert-Butyl Alcohol	5.361	59	64970	100.592	ug/l #	100
24) Methyl tert-Butyl Ether	5.615	73	232397	21.034	ug/l	99
25) Chloroform	7.820	83	138282	21.637	ug/l	97
26) Cyclohexane	8.099	56	120149	21.810	ug/l #	96
29) 1,1-Dichloropropene	8.225	75	104477	21.496	ug/l	97
30) 2-Butanone	7.335	43	234776	100.601	ug/l	99
31) 2,2-Dichloropropane	7.329	77	124079	21.310	ug/l	99
32) 1,1,1-Trichloroethane	8.016	97	125625	20.773	ug/l	99
33) Carbon Tetrachloride	8.209	117	106143	20.664	ug/l	100
34) Benzene	8.464	78	305855	21.075	ug/l	99
35) Methacrylonitrile	7.635	41	44819	19.270	ug/l	95
36) 1,2-Dichloroethane	8.531	62	109681	20.940	ug/l	99
37) Trichloroethene	9.217	130	77483	20.996	ug/l	93
38) Methylcyclohexane	9.461	83	134221	21.693	ug/l	97
39) 1,2-Dichloropropane	9.494	63	78001	21.077	ug/l	99
40) Dibromomethane	9.579	93	53369	20.626	ug/l	97
41) Bromodichloromethane	9.764	83	107149	20.724	ug/l	95
42) Vinyl Acetate	6.433	43	846225	101.620	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	93865	20.619	ug/l	100
44) Isopropyl Acetate	8.560	43	168377	19.975	ug/l	99
45) 1,4-Dioxane	9.569	88	26970	399.776	ug/l	96
46) Methyl methacrylate	9.561	41	78675	20.647	ug/l	91
47) n-amyl Acetate	12.390	43	139202	19.451	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	118200	19.765	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	125301	20.121	ug/l	95
50) 1,1,2-Trichloroethane	10.899	97	76389	20.571	ug/l	98
51) Ethyl methacrylate	10.762	69	121440	19.839	ug/l	94
52) 1,3-Dichloropropane	11.046	76	128384	20.549	ug/l	100
53) Dibromochloromethane	11.239	129	77999	19.676	ug/l	100
54) 1,2-Dibromoethane	11.347	107	78691	20.271	ug/l	97
55) 2-Chloroethyl vinyl ether	10.043	63	146585	75.424	ug/l	99
56) Bromoform	12.460	173	54066	18.920	ug/l #	99
58) 4-Methyl-2-Pentanone	10.330	43	484480	101.968	ug/l	98
59) 2-Hexanone	11.087	43	364796	101.670	ug/l	99
61) Tetrachloroethene	10.979	164	67147	21.937	ug/l	96
62) Toluene	10.507	91	351261	21.413	ug/l	99
64) Chlorobenzene	11.773	112	210131	21.121	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	77740	21.003	ug/l	99
66) Ethyl Benzene	11.846	91	393626	21.343	ug/l	99
67) m/p-Xylenes	11.956	106	301284	43.440	ug/l	97
68) o-Xylene	12.283	106	148913	21.443	ug/l	98
69) Styrene	12.296	104	239037	20.771	ug/l	98
70) Isopropylbenzene	12.580	105	388252	21.325	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	110701	20.745	ug/l	98
72) 1,2,3-Trichloropropane	12.884	75	98681m	21.521	ug/l	
73) Bromobenzene	12.862	156	87453	21.192	ug/l	98
74) n-propylbenzene	12.921	91	451210	21.580	ug/l	100
75) 2-Chlorotoluene	13.010	91	274073	21.408	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	327753	21.599	ug/l	99
77) t-1,4-Dichloro-2-butene	12.629	75	33076	18.445	ug/l	95
78) 4-Chlorotoluene	13.106	91	269189	21.454	ug/l	95
79) tert-butylbenzene	13.326	119	286870	21.531	ug/l	99
80) 1,2,4-Trimethylbenzene	13.372	105	322317m	21.638	ug/l	
81) sec-Butylbenzene	13.503	105	399523	21.420	ug/l	100
82) p-Isopropyltoluene	13.618	119	326955	21.491	ug/l	100
83) 1,3-Dichlorobenzene	13.618	146	157462	21.673	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	152643	21.576	ug/l	98
85) n-Butylbenzene	13.946	91	268497	21.102	ug/l	98
86) Hexachloroethane	14.214	117	56307	19.766	ug/l	90
87) 1,2-Dichlorobenzene	13.991	146	150533	21.685	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	19741	19.861	ug/l	98
89) 1,2,4-Trichlorobenzene	15.265	180	70422	20.120	ug/l	99
90) Hexachlorobutadiene	15.372	225	41065	22.441	ug/l	99
91) Naphthalene	15.509	128	194476	19.209	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	69593	20.805	ug/l	99

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

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