

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069136.D
 Acq On : 22 Oct 2021 15:31
 Operator : JC/MD
 Sample : M4068-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2021

Quant Time: Oct 23 07:54:39 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

Manual Integrations
 APPROVED

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

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

Internal Standards						
1) Bromochloromethane	7.659	128	64471	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	382354	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	347049	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	153725	30.613	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.033%			
60) 4-Bromofluorobenzene	12.733	95	161852	27.198	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 90.667%			
63) Toluene-d8	10.443	98	478581	30.522	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.733%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	16408	3.849	ug/l	99
3) Chloromethane	2.301	50	19619	4.427	ug/l	98
4) Vinyl Chloride	2.443	62	22202	4.203	ug/l	98
5) Bromomethane	2.840	94	17510	5.054	ug/l	99
6) Chloroethane	3.009	64	14554	4.250	ug/l	95
7) Trichlorofluoromethane	3.371	101	29723	4.345	ug/l	99
8) Diethyl Ether	3.827	74	10910	4.504	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.213	101	16468	4.431	ug/l	72
10) 1,1-Dichloroethene	4.186	96	15966	4.403	ug/l	99
11) Methyl Iodide	4.422	142	17615	3.455	ug/l	91
12) Methyl Acetate	4.864	43	34105	4.939	ug/l	97
13) Acrolein	4.049	56	12885	30.970	ug/l	99
14) Acrylonitrile	5.556	53	43788	22.347	ug/l	98
15) Acetone	4.299	58	12218m	19.947	ug/l	
16) Carbon Disulfide	4.532	76	40076	4.113	ug/l	98
17) Allyl chloride	4.840	41	26703	4.276	ug/l	89
18) Methylene Chloride	5.100	84	22757	5.282	ug/l	99
19) trans-1,2-Dichloroethene	5.602	96	17079	4.338	ug/l	96
20) Diisopropyl ether	6.495	45	56389	4.228	ug/l	97
21) 1,1-Dichloroethane	6.391	63	32690	4.391	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	20765	4.400	ug/l	98
23) tert-Butyl Alcohol	5.369	59	18409	22.898	ug/l #	100
24) Methyl tert-Butyl Ether	5.613	73	60359	4.389	ug/l	99
25) Chloroform	7.817	83	34690	4.361	ug/l	97
26) Cyclohexane	8.094	56	29676	4.328	ug/l #	99
29) 1,1-Dichloropropene	8.225	75	25297	4.204	ug/l	96
30) 2-Butanone	7.337	43	61652	21.338	ug/l	99
31) 2,2-Dichloropropane	7.329	77	29066	4.032	ug/l #	72
32) 1,1,1-Trichloroethane	8.016	97	30213	4.035	ug/l	96
33) Carbon Tetrachloride	8.206	117	25408	3.995	ug/l	96
34) Benzene	8.461	78	75388	4.196	ug/l #	83
35) Methacrylonitrile	7.638	41	12885	4.475	ug/l	98
36) 1,2-Dichloroethane	8.531	62	27932	4.307	ug/l #	95
37) Trichloroethene	9.217	130	19374	4.240	ug/l	99
38) Methylcyclohexane	9.461	83	31041	4.052	ug/l	96
39) 1,2-Dichloropropane	9.491	63	19598	4.277	ug/l	99
40) Dibromomethane	9.579	93	13873	4.331	ug/l	96
41) Bromodichloromethane	9.762	83	25708	4.016	ug/l	91
42) Vinyl Acetate	6.436	43	191233	18.549	ug/l	97

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43) Ethyl Acetate	7.412	43	22632	4.016	ug/l	97
44) Isopropyl Acetate	8.560	43	45014	4.313	ug/l	99
45) 1,4-Dioxane	9.571	88	7304	87.450	ug/l	90
46) Methyl methacrylate	9.561	41	18508	3.923	ug/l	90
47) n-amyl Acetate	12.390	43	31812	3.591	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	28283	3.820	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	30180	3.915	ug/l	94
50) 1,1,2-Trichloroethane	10.899	97	19145	4.164	ug/l	96
51) Ethyl methacrylate	10.762	69	30894	4.077	ug/l	91
52) 1,3-Dichloropropane	11.046	76	32693	4.227	ug/l	99
53) Dibromochloromethane	11.240	129	18159	3.700	ug/l	99
54) 1,2-Dibromoethane	11.349	107	19523	4.062	ug/l	96
55) 2-Chloroethyl vinyl ether	10.043	63	53006	22.030	ug/l	100
56) Bromoform	12.460	173	11919	3.369	ug/l #	99
58) 4-Methyl-2-Pentanone	10.330	43	129829	22.174	ug/l	99
59) 2-Hexanone	11.087	43	93724	21.198	ug/l	97
61) Tetrachloroethene	10.977	164	16883	4.476	ug/l	97
62) Toluene	10.507	91	87657	4.336	ug/l	96
64) Chlorobenzene	11.773	112	51417	4.194	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	18471	4.050	ug/l	98
66) Ethyl Benzene	11.846	91	94458	4.156	ug/l	100
67) m/p-Xylenes	11.956	106	70243	8.219	ug/l	97
68) o-Xylene	12.283	106	35557	4.155	ug/l	97
69) Styrene	12.296	104	55566	3.918	ug/l	98
70) Isopropylbenzene	12.581	105	90169	4.019	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	28397	4.318	ug/l	94
72) 1,2,3-Trichloropropane	12.881	75	23258m	4.116	ug/l	
73) Bromobenzene	12.862	156	20908	4.111	ug/l	99
74) n-propylbenzene	12.924	91	98094	3.807	ug/l	100
75) 2-Chlorotoluene	13.010	91	63440	4.021	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	73723	3.943	ug/l	100
77) t-1,4-Dichloro-2-butene	12.629	75	7157	3.239	ug/l	97
78) 4-Chlorotoluene	13.106	91	58972	3.814	ug/l	95
79) tert-butylbenzene	13.326	119	65015	3.960	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	71065	3.871	ug/l #	82
81) sec-Butylbenzene	13.503	105	87531	3.808	ug/l	100
82) p-Isopropyltoluene	13.618	119	71416	3.809	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	33108	3.698	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	31745	3.641	ug/l	98
85) n-Butylbenzene	13.946	91	54772	3.493	ug/l	99
86) Hexachloroethane	14.214	117	12128	3.455	ug/l	87
87) 1,2-Dichlorobenzene	13.991	146	32123	3.755	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.608	75	4167	3.402	ug/l	94
89) 1,2,4-Trichlorobenzene	15.265	180	14079	3.264	ug/l	98
90) Hexachlorobutadiene	15.372	225	9158	4.061	ug/l	98
91) Naphthalene	15.509	128	37323	2.992	ug/l	98
92) 1,2,3-Trichlorobenzene	15.705	180	13683	3.319	ug/l	99

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

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