

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067733.D
 Acq On : 14 Jul 2021 9:27
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:43:10 AM

Quant Time: Jul 14 17:14:24 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:19:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	69714	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	412368	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	390460	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	181852	32.288	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.633%			
60) 4-Bromofluorobenzene	12.733	95	188540	29.733	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.100%			
63) Toluene-d8	10.443	98	535981	29.845	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.467%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.070	85	67527	18.954	ug/l	96
3) Chloromethane	2.298	50	87390	19.638	ug/l	100
4) Vinyl Chloride	2.443	62	135492	19.572	ug/l	99
5) Bromomethane	2.858	94	117223	20.337	ug/l	99
6) Chloroethane	3.019	64	105268	20.419	ug/l	99
7) Trichlorofluoromethane	3.371	101	267898	20.856	ug/l	97
8) Diethyl Ether	3.821	74	47622	19.930	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.205	101	73664	20.175	ug/l	99
10) 1,1-Dichloroethene	4.173	96	66384	19.630	ug/l	96
11) Methyl Iodide	4.414	142	77444	17.322	ug/l	98
12) Methyl Acetate	4.857	43	88649	19.206	ug/l	95
13) Acrolein	4.036	56	48093	99.472	ug/l #	45
14) Acrylonitrile	5.559	53	189631	93.431	ug/l	98
15) Acetone	4.288	58	64441	128.082	ug/l	95
16) Carbon Disulfide	4.521	76	169132	18.939	ug/l	97
17) Allyl chloride	4.835	41	114001	19.158	ug/l	97
18) Methylene Chloride	5.093	84	83369	17.814	ug/l	98
19) trans-1,2-Dichloroethene	5.591	96	74864	18.566	ug/l	97
20) Diisopropyl ether	6.495	45	265771	18.863	ug/l	99
21) 1,1-Dichloroethane	6.383	63	148750	19.191	ug/l	98
22) cis-1,2-Dichloroethene	7.321	96	94573	19.007	ug/l	97
23) tert-Butyl Alcohol	5.380	59	67587	90.341	ug/l #	100
24) Methyl tert-Butyl Ether	5.613	73	266790	19.108	ug/l	100
25) Chloroform	7.817	83	167123	19.376	ug/l	98
26) Cyclohexane	8.091	56	129067	19.110	ug/l #	99
29) 1,1-Dichloropropene	8.220	75	119855	18.525	ug/l	98
30) 2-Butanone	7.340	43	292136	97.503	ug/l	99
31) 2,2-Dichloropropane	7.327	77	137997	19.118	ug/l	99
32) 1,1,1-Trichloroethane	8.016	97	145322	18.291	ug/l	99
33) Carbon Tetrachloride	8.206	117	120394	17.747	ug/l	98
34) Benzene	8.458	78	360374	18.634	ug/l	98
35) Methacrylonitrile	7.638	41	56270	18.270	ug/l	97
36) 1,2-Dichloroethane	8.531	62	137746	19.133	ug/l	100
37) Trichloroethene	9.215	130	91830	18.277	ug/l	99
38) Methylcyclohexane	9.461	83	133353	18.609	ug/l	100
39) 1,2-Dichloropropane	9.491	63	91491	18.551	ug/l	95
40) Dibromomethane	9.577	93	64775	18.264	ug/l	99
41) Bromodichloromethane	9.762	83	125683	18.053	ug/l	99
42) Vinyl Acetate	6.434	43	1117077	93.718	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	105990	17.498	ug/l	98
44) Isopropyl Acetate	8.563	43	198252	18.026	ug/l	99
45) 1,4-Dioxane	9.574	88	29319	352.025	ug/l	99
46) Methyl methacrylate	9.561	41	84793	17.859	ug/l	99
47) n-amyl Acetate	12.390	43	158551	17.562	ug/l	100
48) t-1,3-Dichloropropene	10.722	75	132268	17.630	ug/l	91
49) cis-1,3-Dichloropropene	10.191	75	143550	18.025	ug/l	96
50) 1,1,2-Trichloroethane	10.902	97	91533	18.085	ug/l	98
51) Ethyl methacrylate	10.762	69	135303	17.191	ug/l	99
52) 1,3-Dichloropropane	11.047	76	153824	18.381	ug/l	97
53) Dibromochloromethane	11.240	129	90056	16.998	ug/l	99
54) 1,2-Dibromoethane	11.347	107	92804	17.776	ug/l	100
55) 2-Chloroethyl vinyl ether	10.043	63	119212	78.315	ug/l	100
56) Bromoform	12.460	173	56824	15.309	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	613506	91.505	ug/l	99
59) 2-Hexanone	11.087	43	450013	95.729	ug/l	99
61) Tetrachloroethene	10.979	164	88978	18.551	ug/l	98
62) Toluene	10.507	91	415923	18.110	ug/l	99
64) Chlorobenzene	11.773	112	249469	18.137	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	91114	17.980	ug/l	96
66) Ethyl Benzene	11.846	91	462304	18.191	ug/l	99
67) m/p-Xylenes	11.953	106	357436	36.874	ug/l	99
68) o-Xylene	12.283	106	176424	18.438	ug/l	100
69) Styrene	12.296	104	284270	17.965	ug/l	99
70) Isopropylbenzene	12.581	105	453118	18.350	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	130813	18.659	ug/l	100
72) 1,2,3-Trichloropropane	12.881	75	119469m	20.497	ug/l	
73) Bromobenzene	12.862	156	99503	17.532	ug/l	99
74) n-propylbenzene	12.924	91	537084	18.982	ug/l	100
75) 2-Chlorotoluene	13.010	91	320178	18.853	ug/l	99
76) 1,3,5-Trimethylbenzene	13.061	105	386261	19.000	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	34407	17.492	ug/l	99
78) 4-Chlorotoluene	13.106	91	323529	19.108	ug/l	99
79) tert-butylbenzene	13.326	119	319967	18.330	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	380041m	18.825	ug/l	
81) sec-Butylbenzene	13.503	105	458090	18.918	ug/l	100
82) p-Isopropyltoluene	13.619	119	369188	18.319	ug/l	99
83) 1,3-Dichlorobenzene	13.619	146	194885	18.387	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	188449	18.253	ug/l	99
85) n-Butylbenzene	13.946	91	309714	18.523	ug/l	100
86) Hexachloroethane	14.211	117	58394	17.416	ug/l	99
87) 1,2-Dichlorobenzene	13.991	146	185106	18.293	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	23465	18.707	ug/l	97
89) 1,2,4-Trichlorobenzene	15.265	180	75233	16.306	ug/l	96
90) Hexachlorobutadiene	15.373	225	40461	18.245	ug/l	94
91) Naphthalene	15.509	128	191356	14.599	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	71276	16.125	ug/l	98

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

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