

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067754.D
 Acq On : 14 Jul 2021 19:35
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:43:34 AM

Quant Time: Jul 15 06:30:19 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	7.659	128	73550	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	428084	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	396330	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	185988	31.300	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.333%			
60) 4-Bromofluorobenzene	12.734	95	185216	28.776	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.933%			
63) Toluene-d8	10.443	98	557933	30.607	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.033%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.070	85	77289	20.562	ug/l	97
3) Chloromethane	2.301	50	97044	20.670	ug/l	98
4) Vinyl Chloride	2.443	62	144874	19.836	ug/l	99
5) Bromomethane	2.859	94	114631	18.850	ug/l	98
6) Chloroethane	3.019	64	104168	19.152	ug/l	100
7) Trichlorofluoromethane	3.371	101	259394	19.141	ug/l	99
8) Diethyl Ether	3.816	74	58322	23.135	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.205	101	73261	19.018	ug/l	100
10) 1,1-Dichloroethene	4.173	96	67640	18.958	ug/l	98
11) Methyl Iodide	4.417	142	77181	16.363	ug/l	96
12) Methyl Acetate	4.862	43	92075	18.907	ug/l	99
13) Acrolein	4.041	56	55326	108.464	ug/l #	47
14) Acrylonitrile	5.557	53	205578	96.006	ug/l	98
15) Acetone	4.293	58	50893	95.878	ug/l	100
16) Carbon Disulfide	4.527	76	164604	17.471	ug/l	98
17) Allyl chloride	4.832	41	111633	17.782	ug/l	99
18) Methylene Chloride	5.093	84	85697	17.356	ug/l	94
19) trans-1,2-Dichloroethene	5.594	96	76077	17.883	ug/l	97
20) Diisopropyl ether	6.501	45	266889	17.954	ug/l	98
21) 1,1-Dichloroethane	6.385	63	152670	18.669	ug/l	98
22) cis-1,2-Dichloroethene	7.324	96	95765	18.243	ug/l	95
23) tert-Butyl Alcohol	5.390	59	73920	93.653	ug/l #	100
24) Methyl tert-Butyl Ether	5.624	73	272711	18.513	ug/l	99
25) Chloroform	7.820	83	167429	18.399	ug/l	100
26) Cyclohexane	8.096	56	126791	17.794	ug/l #	99
29) 1,1-Dichloropropene	8.222	75	120496	17.940	ug/l	100
30) 2-Butanone	7.343	43	285640	91.835	ug/l	100
31) 2,2-Dichloropropane	7.327	77	121601	16.228	ug/l	100
32) 1,1,1-Trichloroethane	8.016	97	147509	17.884	ug/l	99
33) Carbon Tetrachloride	8.206	117	121592	17.265	ug/l	96
34) Benzene	8.461	78	357537	17.809	ug/l	98
35) Methacrylonitrile	7.641	41	57946	18.123	ug/l	97
36) 1,2-Dichloroethane	8.531	62	138224	18.494	ug/l	100
37) Trichloroethene	9.215	130	91583	17.559	ug/l	96
38) Methylcyclohexane	9.462	83	127231	17.103	ug/l	100
39) 1,2-Dichloropropane	9.494	63	91403	17.853	ug/l	99
40) Dibromomethane	9.580	93	65822	17.878	ug/l	97
41) Bromodichloromethane	9.765	83	126802	17.545	ug/l	97
42) Vinyl Acetate	6.436	43	1129683m	91.296	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.418	43	115224	18.324	ug/l	96
44) Isopropyl Acetate	8.566	43	202408	17.728	ug/l	100
45) 1,4-Dioxane	9.574	88	31439	363.621	ug/l	98
46) Methyl methacrylate	9.561	41	86742	17.599	ug/l	97
47) n-amyl Acetate	12.390	43	156230	16.669	ug/l	97
48) t-1,3-Dichloropropene	10.722	75	124990	16.048	ug/l	98
49) cis-1,3-Dichloropropene	10.191	75	138419	16.743	ug/l	99
50) 1,1,2-Trichloroethane	10.902	97	92126	17.534	ug/l	97
51) Ethyl methacrylate	10.762	69	138134	16.907	ug/l	99
52) 1,3-Dichloropropane	11.047	76	152942	17.605	ug/l	98
53) Dibromochloromethane	11.242	129	91085	16.561	ug/l	97
54) 1,2-Dibromoethane	11.350	107	95409	17.604	ug/l	100
55) 2-Chloroethyl vinyl ether	10.044	63	123830	78.362	ug/l	99
56) Bromoform	12.463	173	57240	14.855	ug/l #	98
58) 4-Methyl-2-Pentanone	10.333	43	642581	94.422	ug/l	99
59) 2-Hexanone	11.090	43	445679	93.403	ug/l	98
61) Tetrachloroethene	10.980	164	88803	18.240	ug/l	97
62) Toluene	10.508	91	418656	17.959	ug/l	99
64) Chlorobenzene	11.773	112	249376	17.862	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	91247	17.739	ug/l	99
66) Ethyl Benzene	11.849	91	452314	17.534	ug/l	100
67) m/p-Xylenes	11.956	106	343664	34.928	ug/l	100
68) o-Xylene	12.283	106	170719	17.577	ug/l	97
69) Styrene	12.296	104	272616	16.974	ug/l	98
70) Isopropylbenzene	12.581	105	442211	17.643	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	132692	18.646	ug/l	100
72) 1,2,3-Trichloropropane	12.881	75	119810m	20.251	ug/l	
73) Bromobenzene	12.862	156	99052	17.194	ug/l	99
74) n-propylbenzene	12.924	91	500032	17.411	ug/l	99
75) 2-Chlorotoluene	13.010	91	304422	17.660	ug/l	99
76) 1,3,5-Trimethylbenzene	13.061	105	361705	17.528	ug/l	100
77) t-1,4-Dichloro-2-butene	12.629	75	30878	15.465	ug/l	96
78) 4-Chlorotoluene	13.106	91	298865	17.390	ug/l	98
79) tert-butylbenzene	13.326	119	304804	17.203	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	358229m	17.482	ug/l	
81) sec-Butylbenzene	13.503	105	426198	17.340	ug/l	100
82) p-Isopropyltoluene	13.619	119	340823	16.661	ug/l	99
83) 1,3-Dichlorobenzene	13.619	146	181309	16.853	ug/l	100
84) 1,4-Dichlorobenzene	13.696	146	175837	16.779	ug/l	99
85) n-Butylbenzene	13.946	91	284813	16.782	ug/l	100
86) Hexachloroethane	14.211	117	54864	16.121	ug/l	100
87) 1,2-Dichlorobenzene	13.991	146	180338	17.557	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.603	75	23739	18.646	ug/l	97
89) 1,2,4-Trichlorobenzene	15.265	180	78864	16.840	ug/l	99
90) Hexachlorobutadiene	15.373	225	36423	16.181	ug/l	93
91) Naphthalene	15.509	128	252542	18.981	ug/l	99
92) 1,2,3-Trichlorobenzene	15.703	180	78013	17.387	ug/l	99

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

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