

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031722\
 Data File : VN071338.D
 Acq On : 17 Mar 2022 00:02
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/17/2022
 Supervised By : Semsettin Yesilyurt 03/21/2022

Quant Time: Mar 17 06:09:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N031722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 17 06:07:38 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	112968	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	630549	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.745	117	566555	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	268833	27.410	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.367%		
60) 4-Bromofluorobenzene	12.727	95	259455	28.131	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.767%		
63) Toluene-d8	10.439	98	796530	30.540	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.800%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	148159	18.462	ug/l	98
3) Chloromethane	2.299	50	196480	20.692	ug/l	96
4) Vinyl Chloride	2.440	62	180503	20.197	ug/l	99
5) Bromomethane	2.846	94	97356	19.993	ug/l	98
6) Chloroethane	3.010	64	111388	21.432	ug/l	96
7) Trichlorofluoromethane	3.369	101	225185	19.551	ug/l	95
8) Diethyl Ether	3.828	74	94063	20.194	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.210	101	125537	18.704	ug/l #	68
10) 1,1-Dichloroethene	4.181	96	127139	19.631	ug/l	93
11) Methyl Iodide	4.428	142	170107	18.915	ug/l	90
12) Methyl Acetate	4.851	43	240783	15.651	ug/l	96
13) Acrolein	4.040	56	160646	116.554	ug/l	98
14) Acrylonitrile	5.551	53	502357	105.649	ug/l	99
15) Acetone	4.287	58	131518	83.539	ug/l	99
16) Carbon Disulfide	4.528	76	332752	17.506	ug/l	99
17) Allyl chloride	4.840	41	260748	18.103	ug/l	83
18) Methylene Chloride	5.093	84	155107	19.761	ug/l	88
19) trans-1,2-Dichloroethene	5.598	96	132224	19.292	ug/l	88
20) Diisopropyl ether	6.498	45	512413	18.520	ug/l	90
21) 1,1-Dichloroethane	6.387	63	285270	19.370	ug/l	99
22) cis-1,2-Dichloroethene	7.328	96	160680	19.617	ug/l	97
23) tert-Butyl Alcohol	5.369	59	182291	115.820	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	481065	20.511	ug/l	97
25) Chloroform	7.816	83	273638	18.852	ug/l	98
26) Cyclohexane	8.092	56	251333	18.609	ug/l #	89
29) 1,1-Dichloropropene	8.222	75	200143	18.594	ug/l	96
30) 2-Butanone	7.334	43	708348	95.096	ug/l	95
31) 2,2-Dichloropropane	7.322	77	191091	17.107	ug/l	99
32) 1,1,1-Trichloroethane	8.010	97	236494	18.794	ug/l	96
33) Carbon Tetrachloride	8.204	117	200985	18.178	ug/l	95
34) Benzene	8.457	78	628319	19.484	ug/l	97
35) Methacrylonitrile	7.628	41	140007	19.733	ug/l	88
36) 1,2-Dichloroethane	8.528	62	224133	17.924	ug/l	98
37) Trichloroethene	9.216	130	145655	19.029	ug/l	99
38) Methylcyclohexane	9.457	83	235859	18.363	ug/l	93
39) 1,2-Dichloropropane	9.486	63	166839	19.394	ug/l	96
40) Dibromomethane	9.575	93	104716	18.677	ug/l	92
41) Bromodichloromethane	9.757	83	209636	17.821	ug/l	95
42) Vinyl Acetate	6.434	43	2327024	103.047	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	276578	20.591	ug/l	98
44) Isopropyl Acetate	8.557	43	435980	20.299	ug/l	97
45) 1,4-Dioxane	9.563	88	80061	499.681	ug/l	91
46) Methyl methacrylate	9.557	41	184612	18.613	ug/l	83
47) n-amyl Acetate	12.386	43	277677	18.491	ug/l	98
48) t-1,3-Dichloropropene	10.716	75	219989	18.217	ug/l	100
49) cis-1,3-Dichloropropene	10.186	75	241981	18.489	ug/l	93
50) 1,1,2-Trichloroethane	10.892	97	149842	19.410	ug/l	98
51) Ethyl methacrylate	10.757	69	250890	19.818	ug/l	87
52) 1,3-Dichloropropane	11.039	76	272581	19.851	ug/l	100
53) Dibromochloromethane	11.233	129	155375	18.124	ug/l	99
54) 1,2-Dibromoethane	11.339	107	153755	19.384	ug/l	97
55) 2-Chloroethyl vinyl ether	10.039	63	350756	129.170	ug/l	97
56) Bromoform	12.451	173	114703	17.549	ug/l #	100
58) 4-Methyl-2-Pentanone	10.328	43	1381055	103.828	ug/l	97
59) 2-Hexanone	11.080	43	1012418	103.174	ug/l	98
61) Tetrachloroethene	10.975	164	122906	18.863	ug/l	97
62) Toluene	10.504	91	660761	19.791	ug/l	95
64) Chlorobenzene	11.769	112	390664	19.654	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.839	131	147115	19.675	ug/l	99
66) Ethyl Benzene	11.839	91	709811	19.214	ug/l	100
67) m/p-Xylenes	11.951	106	531231	39.195	ug/l	100
68) o-Xylene	12.274	106	270922	20.058	ug/l	99
69) Styrene	12.292	104	412344	18.917	ug/l	98
70) Isopropylbenzene	12.574	105	676414	19.240	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.822	83	241336	20.619	ug/l	99
72) 1,2,3-Trichloropropane	12.874	75	195928m	18.661	ug/l	
73) Bromobenzene	12.857	156	155750	19.096	ug/l	94
74) n-propylbenzene	12.916	91	730269	18.124	ug/l	100
75) 2-Chlorotoluene	13.004	91	464270	18.717	ug/l	96
76) 1,3,5-Trimethylbenzene	13.057	105	538009	18.742	ug/l	96
77) t-1,4-Dichloro-2-butene	12.622	75	66242	19.149	ug/l	94
78) 4-Chlorotoluene	13.104	91	417162	17.718	ug/l	96
79) tert-butylbenzene	13.321	119	488570	19.363	ug/l	96
80) 1,2,4-Trimethylbenzene	13.363	105	530963	19.081	ug/l #	81
81) sec-Butylbenzene	13.498	105	631745	18.190	ug/l	99
82) p-Isopropyltoluene	13.610	119	510867	18.455	ug/l	98
83) 1,3-Dichlorobenzene	13.610	146	253290	18.485	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	237730	18.074	ug/l	98
85) n-Butylbenzene	13.939	91	354636	15.652	ug/l	97
86) Hexachloroethane	14.204	117	94669	17.244	ug/l	87
87) 1,2-Dichlorobenzene	13.986	146	253969	19.197	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.598	75	44338	19.605	ug/l	92
89) 1,2,4-Trichlorobenzene	15.257	180	107096	17.443	ug/l	96
90) Hexachlorobutadiene	15.368	225	65147	18.147	ug/l	98
91) Naphthalene	15.504	128	314141	18.887	ug/l	100
92) 1,2,3-Trichlorobenzene	15.698	180	110479	18.795	ug/l	98

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

