

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN033122\
 Data File : VN071717.D
 Acq On : 31 Mar 2022 20:26
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/01/2022
 Supervised By : Mahesh Dadoda 04/01/2022

Quant Time: Apr 01 02:27:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	84507	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.969	114	507488	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	452618	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	189798	31.878	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.267%			
60) 4-Bromofluorobenzene	12.727	95	191108	28.476	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.933%			
63) Toluene-d8	10.439	98	630838	30.703	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	88874	16.896	ug/l	94
3) Chloromethane	2.304	50	107187	17.290	ug/l	99
4) Vinyl Chloride	2.446	62	122024	17.163	ug/l	98
5) Bromomethane	2.857	94	79674	19.018	ug/l	99
6) Chloroethane	3.022	64	79675	17.500	ug/l	95
7) Trichlorofluoromethane	3.375	101	153274	18.491	ug/l	96
8) Diethyl Ether	3.828	74	67780	19.460	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.216	101	94932	19.123	ug/l #	65
10) 1,1-Dichloroethene	4.187	96	90351	18.454	ug/l	99
11) Methyl Iodide	4.422	142	129127	17.999	ug/l	89
12) Methyl Acetate	4.857	43	139745	20.254	ug/l	97
13) Acrolein	4.046	56	74123	100.979	ug/l	96
14) Acrylonitrile	5.551	53	312582	100.028	ug/l	98
15) Acetone	4.287	58	81924	91.098	ug/l	92
16) Carbon Disulfide	4.534	76	189238	14.846	ug/l	95
17) Allyl chloride	4.845	41	144047	18.140	ug/l	82
18) Methylene Chloride	5.098	84	115114	19.599	ug/l	95
19) trans-1,2-Dichloroethene	5.598	96	98006	18.716	ug/l	95
20) Diisopropyl ether	6.492	45	336652	20.262	ug/l	96
21) 1,1-Dichloroethane	6.387	63	195942	19.533	ug/l	97
22) cis-1,2-Dichloroethene	7.328	96	122661	19.280	ug/l	96
23) tert-Butyl Alcohol	5.369	59	96608	86.638	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	348987	19.751	ug/l	91
25) Chloroform	7.816	83	204205	20.240	ug/l	99
26) Cyclohexane	8.098	56	157795	18.198	ug/l #	99
29) 1,1-Dichloropropene	8.222	75	139587	16.993	ug/l	99
30) 2-Butanone	7.334	43	397638	86.966	ug/l	97
31) 2,2-Dichloropropane	7.328	77	146317	15.636	ug/l	100
32) 1,1,1-Trichloroethane	8.016	97	169649	17.733	ug/l	98
33) Carbon Tetrachloride	8.204	117	142787	17.632	ug/l	98
34) Benzene	8.457	78	461577	18.086	ug/l	98
35) Methacrylonitrile	7.639	41	80786	18.415	ug/l	93
36) 1,2-Dichloroethane	8.528	62	161406m	18.129	ug/l	
37) Trichloroethene	9.216	130	114639	17.409	ug/l	97
38) Methylcyclohexane	9.457	83	164866	15.923	ug/l	97
39) 1,2-Dichloropropane	9.486	63	116315	18.217	ug/l	98
40) Dibromomethane	9.575	93	78421	18.145	ug/l	87
41) Bromodichloromethane	9.757	83	155873	18.023	ug/l	99
42) Vinyl Acetate	6.434	43	1384756	88.388	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	167678	18.912	ug/l	99
44) Isopropyl Acetate	8.557	43	254952	17.929	ug/l	95
45) 1,4-Dioxane	9.563	88	47618	331.895	ug/l	96
46) Methyl methacrylate	9.557	41	111191	17.831	ug/l	83
47) n-amyl Acetate	12.386	43	142693	15.037	ug/l #	90
48) t-1,3-Dichloropropene	10.716	75	158274	16.837	ug/l	99
49) cis-1,3-Dichloropropene	10.186	75	177570	17.274	ug/l #	84
50) 1,1,2-Trichloroethane	10.892	97	120940	18.719	ug/l	98
51) Ethyl methacrylate	10.757	69	177259	17.769	ug/l	84
52) 1,3-Dichloropropane	11.045	76	201274	18.242	ug/l	100
53) Dibromochloromethane	11.233	129	123397	18.450	ug/l	100
54) 1,2-Dibromoethane	11.345	107	120686	18.159	ug/l	96
55) 2-Chloroethyl vinyl ether	10.039	63	161792	60.195	ug/l	99
56) Bromoform	12.457	173	90794	17.607	ug/l #	99
58) 4-Methyl-2-Pentanone	10.327	43	801304	93.261	ug/l	92
59) 2-Hexanone	11.080	43	556237	88.670	ug/l	90
61) Tetrachloroethene	10.974	164	100594	18.261	ug/l	87
62) Toluene	10.504	91	506651	18.461	ug/l	96
64) Chlorobenzene	11.769	112	309601	18.288	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.839	131	116817	18.810	ug/l	99
66) Ethyl Benzene	11.839	91	531801	17.831	ug/l	95
67) m/p-Xylenes	11.951	106	412729	35.572	ug/l	95
68) o-Xylene	12.280	106	204175	17.705	ug/l	98
69) Styrene	12.292	104	310768	17.122	ug/l	98
70) Isopropylbenzene	12.574	105	527317	18.218	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	180705	19.182	ug/l	97
72) 1,2,3-Trichloropropane	12.880	75	169745m	20.974	ug/l	
73) Bromobenzene	12.857	156	122236	17.311	ug/l	98
74) n-propylbenzene	12.916	91	543934	17.218	ug/l	98
75) 2-Chlorotoluene	13.004	91	349117	17.684	ug/l	100
76) 1,3,5-Trimethylbenzene	13.057	105	430760	18.550	ug/l	96
77) t-1,4-Dichloro-2-butene	12.621	75	43049	15.149	ug/l	97
78) 4-Chlorotoluene	13.104	91	308447	16.729	ug/l	99
79) tert-butylbenzene	13.321	119	377958	18.037	ug/l	94
80) 1,2,4-Trimethylbenzene	13.363	105	405975m	18.019	ug/l	
81) sec-Butylbenzene	13.498	105	487968	17.331	ug/l	98
82) p-Isopropyltoluene	13.610	119	395530	17.290	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	192253	16.639	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	184112	16.695	ug/l	98
85) n-Butylbenzene	13.939	91	263599	15.513	ug/l	96
86) Hexachloroethane	14.204	117	74534	17.447	ug/l	81
87) 1,2-Dichlorobenzene	13.986	146	198039	17.729	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.598	75	28231	16.843	ug/l #	83
89) 1,2,4-Trichlorobenzene	15.262	180	80625	15.614	ug/l	95
90) Hexachlorobutadiene	15.368	225	53427	17.461	ug/l	97
91) Naphthalene	15.504	128	195998	16.734	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	79617	15.722	ug/l	97

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

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