

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032422\
 Data File : VN071524.D
 Acq On : 24 Mar 2022 16:36
 Operator : JC\MD
 Sample : N1645-07 4PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2022

Quant Time: Mar 25 09:07:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 25 09:07:37 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/25/2022
 Supervised By : Mahesh Dadoda 03/25/2022

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

Internal Standards						
1) Bromochloromethane	7.651	128	104183	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	574444	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	502910	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	227724	31.024	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.400%			
60) 4-Bromofluorobenzene	12.727	95	201747	27.055	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 90.200%			
63) Toluene-d8	10.439	98	710802	31.135	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.800%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	23520	3.627	ug/l	99
3) Chloromethane	2.299	50	33901	4.436	ug/l	100
4) Vinyl Chloride	2.446	62	35793	4.084	ug/l	92
5) Bromomethane	2.851	94	27014	5.230	ug/l	93
6) Chloroethane	3.016	64	32656	5.818	ug/l	96
7) Trichlorofluoromethane	3.375	101	41568	4.068	ug/l	88
8) Diethyl Ether	3.822	74	16502	3.843	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.216	101	25244	4.125	ug/l #	52
10) 1,1-Dichloroethene	4.187	96	24109	3.994	ug/l	97
11) Methyl Iodide	4.422	142	33057	3.738	ug/l	91
12) Methyl Acetate	4.857	43	41234	4.848	ug/l	92
13) Acrolein	4.040	56	19932	22.025	ug/l	99
14) Acrylonitrile	5.551	53	77787	20.191	ug/l	97
15) Acetone	4.293	58	20391	18.392	ug/l	91
16) Carbon Disulfide	4.534	76	62945	4.005	ug/l	98
17) Allyl chloride	4.834	41	36936m	3.773	ug/l	
18) Methylene Chloride	5.098	84	31992	4.418	ug/l	92
19) trans-1,2-Dichloroethene	5.592	96	26539	4.111	ug/l	97
20) Diisopropyl ether	6.492	45	79974	3.904	ug/l	96
21) 1,1-Dichloroethane	6.386	63	49401	3.995	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	30130	3.842	ug/l	98
23) tert-Butyl Alcohol	5.357	59	27065m	19.688	ug/l	
24) Methyl tert-Butyl Ether	5.610	73	85981m	3.947	ug/l	
25) Chloroform	7.816	83	51098	4.108	ug/l	97
26) Cyclohexane	8.092	56	40716	3.809	ug/l #	95
29) 1,1-Dichloropropene	8.216	75	35228	3.789	ug/l	99
30) 2-Butanone	7.333	43	100498	19.418	ug/l	100
31) 2,2-Dichloropropane	7.322	77	41202	3.890	ug/l #	76
32) 1,1,1-Trichloroethane	8.016	97	43549	4.021	ug/l	98
33) Carbon Tetrachloride	8.204	117	36878	4.023	ug/l	95
34) Benzene	8.457	78	117670	4.073	ug/l #	85
35) Methacrylonitrile	7.633	41	18764	3.779	ug/l	95
36) 1,2-Dichloroethane	8.528	62	42324	4.200	ug/l	96
37) Trichloroethene	9.216	130	30546	4.098	ug/l	94
38) Methylcyclohexane	9.457	83	42822	3.654	ug/l	98
39) 1,2-Dichloropropane	9.480	63	29174	4.037	ug/l #	89
40) Dibromomethane	9.575	93	20834	4.259	ug/l	91
41) Bromodichloromethane	9.757	83	37424	3.823	ug/l	97
42) Vinyl Acetate	6.428	43	328690	18.535	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	43790	4.363	ug/l	100
44) Isopropyl Acetate	8.557	43	67264	4.179	ug/l	98
45) 1,4-Dioxane	9.563	88	11708	72.092	ug/l #	86
46) Methyl methacrylate	9.557	41	24608	3.486	ug/l	80
47) n-amyl Acetate	12.386	43	33983m	3.164	ug/l	
48) t-1,3-Dichloropropene	10.716	75	36737	3.453	ug/l	96
49) cis-1,3-Dichloropropene	10.186	75	41620	3.577	ug/l	91
50) 1,1,2-Trichloroethane	10.892	97	28951	3.959	ug/l	97
51) Ethyl methacrylate	10.757	69	39750	3.520	ug/l	91
52) 1,3-Dichloropropane	11.045	76	49609	3.972	ug/l	98
53) Dibromochloromethane	11.233	129	27626	3.649	ug/l	95
54) 1,2-Dibromoethane	11.345	107	29832	3.965	ug/l	97
55) 2-Chloroethyl vinyl ether	10.039	63	44701	14.693	ug/l	97
56) Bromoform	12.451	173	20043	3.434	ug/l #	97
58) 4-Methyl-2-Pentanone	10.327	43	189304	19.829	ug/l	95
59) 2-Hexanone	11.080	43	135092	19.381	ug/l	95
61) Tetrachloroethene	10.974	164	26619	4.349	ug/l	82
62) Toluene	10.504	91	125086	4.102	ug/l	95
64) Chlorobenzene	11.763	112	76264	4.054	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.833	131	27073	3.923	ug/l	99
66) Ethyl Benzene	11.839	91	122478	3.696	ug/l	96
67) m/p-Xylenes	11.951	106	92141	7.147	ug/l	98
68) o-Xylene	12.274	106	45415	3.544	ug/l	100
69) Styrene	12.292	104	67808	3.362	ug/l	96
70) Isopropylbenzene	12.574	105	114099	3.548	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	42988	4.107	ug/l	99
72) 1,2,3-Trichloropropane	12.874	75	33330m	3.706	ug/l	
73) Bromobenzene	12.857	156	28159	3.589	ug/l	99
74) n-propylbenzene	12.915	91	117507	3.348	ug/l	98
75) 2-Chlorotoluene	13.004	91	79220	3.612	ug/l	100
76) 1,3,5-Trimethylbenzene	13.057	105	90655	3.514	ug/l	97
77) t-1,4-Dichloro-2-butene	12.621	75	9178	2.907	ug/l	95
78) 4-Chlorotoluene	13.098	91	69644	3.400	ug/l	97
79) tert-butylbenzene	13.321	119	83576	3.590	ug/l	96
80) 1,2,4-Trimethylbenzene	13.363	105	82278	3.287	ug/l #	80
81) sec-Butylbenzene	13.498	105	103152	3.297	ug/l	98
82) p-Isopropyltoluene	13.610	119	78799	3.100	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	43651	3.400	ug/l	97
84) 1,4-Dichlorobenzene	13.692	146	40248	3.285	ug/l	97
85) n-Butylbenzene	13.939	91	52701	2.791	ug/l	97
86) Hexachloroethane	14.204	117	16491	3.474	ug/l	81
87) 1,2-Dichlorobenzene	13.986	146	44104	3.553	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.604	75	6474	3.476	ug/l #	81
89) 1,2,4-Trichlorobenzene	15.262	180	14295	2.492	ug/l	99
90) Hexachlorobutadiene	15.362	225	12718	3.741	ug/l	97
91) Naphthalene	15.504	128	32134	2.015	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	14575	2.590	ug/l	96

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

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