

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077279.D
 Acq On : 07 Apr 2023 16:20
 Operator : JC\MD
 Sample : 02213-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2023

Quant Time: Apr 08 05:20:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 04/10/2023
 Supervised By :Semsettin Yesilyurt 04/10/2023

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

Internal Standards						
1) Bromochloromethane	7.819	128	58954	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	446145	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	469125	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	146275	29.255	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.533%		
60) 4-Bromofluorobenzene	12.854	95	222079	27.377	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.267%		
63) Toluene-d8	10.571	98	511274	31.001	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.333%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.131	85	13768	2.457	ug/l	86
3) Chloromethane	2.372	50	21555	2.895	ug/l	97
4) Vinyl Chloride	2.519	62	29095	2.728	ug/l	99
5) Bromomethane	2.954	94	24386	3.034	ug/l #	79
6) Chloroethane	3.131	64	20358	2.848	ug/l	92
7) Trichlorofluoromethane	3.507	101	26870	2.706	ug/l	87
8) Diethyl Ether	3.972	74	11180	2.641	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.378	101	18142m	2.922	ug/l	
10) 1,1-Dichloroethene	4.348	96	15416	2.482	ug/l	89
11) Methyl Iodide	4.607	142	16682	2.377	ug/l	87
12) Methyl Acetate	5.037	43	24595m	2.657	ug/l	
13) Acrolein	4.195	56	18145m	15.794	ug/l	
14) Acrylonitrile	5.731	53	39105	12.361	ug/l	98
15) Acetone	4.442	58	14506m	12.639	ug/l	
16) Carbon Disulfide	4.719	76	44483	2.713	ug/l	96
17) Allyl chloride	5.037	41	15494	1.938	ug/l	67
18) Methylene Chloride	5.272	84	20854m	2.891	ug/l	
19) trans-1,2-Dichloroethene	5.784	96	18037m	2.670	ug/l	
20) Diisopropyl ether	6.683	45	45730	2.399	ug/l	95
21) 1,1-Dichloroethane	6.578	63	31051	2.570	ug/l	93
22) cis-1,2-Dichloroethene	7.489	96	22137	2.688	ug/l	97
23) tert-Butyl Alcohol	5.525	59	19247m	13.682	ug/l	
24) Methyl tert-Butyl Ether	5.801	73	58089	2.597	ug/l	96
25) Chloroform	7.972	83	33675m	2.572	ug/l	
26) Cyclohexane	8.266	56	26639	2.538	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	24746	2.560	ug/l	85
30) 2-Butanone	7.489	43	53105	11.619	ug/l	93
31) 2,2-Dichloropropane	7.489	77	30165	2.543	ug/l #	84
32) 1,1,1-Trichloroethane	8.172	97	30066	2.528	ug/l	98
33) Carbon Tetrachloride	8.366	117	26083	2.569	ug/l #	83
34) Benzene	8.607	78	75765	2.534	ug/l #	86
35) Methacrylonitrile	7.783	41	12511	2.906	ug/l	81
36) 1,2-Dichloroethane	8.677	62	26306	2.806	ug/l #	87
37) Trichloroethene	9.360	130	18600	2.543	ug/l	96
38) Methylcyclohexane	9.601	83	34222	2.611	ug/l	99
39) 1,2-Dichloropropane	9.624	63	18986	2.558	ug/l	99
40) Dibromomethane	9.713	93	13816	2.583	ug/l	99
41) Bromodichloromethane	9.889	83	26545	2.489	ug/l	100
42) Vinyl Acetate	6.607	43	156248	11.812	ug/l #	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	22979m	2.718	ug/l	
44) Isopropyl Acetate	8.695	43	37529	2.479	ug/l #	100
45) 1,4-Dioxane	9.701	88	6662	41.724	ug/l #	91
46) Methyl methacrylate	9.683	41	16712	2.564	ug/l	97
47) n-amyl Acetate	12.501	43	29052	2.196	ug/l	93
48) t-1,3-Dichloropropene	10.836	75	27430	2.298	ug/l	95
49) cis-1,3-Dichloropropene	10.313	75	30124	2.372	ug/l #	93
50) 1,1,2-Trichloroethane	11.018	97	20078	2.584	ug/l	94
51) Ethyl methacrylate	10.877	69	29164	2.444	ug/l	95
52) 1,3-Dichloropropane	11.166	76	33872	2.612	ug/l	99
53) Dibromochloromethane	11.360	129	20097	2.454	ug/l	97
54) 1,2-Dibromoethane	11.471	107	19613	2.515	ug/l	99
55) 2-Chloroethyl vinyl ether	10.160	63	44578	12.102	ug/l	98
56) Bromoform	12.583	173	11898	2.163	ug/l #	97
58) 4-Methyl-2-Pentanone	10.448	43	108215	12.320	ug/l	99
59) 2-Hexanone	11.201	43	82135	12.097	ug/l	98
61) Tetrachloroethene	11.107	164	13924	2.495	ug/l	98
62) Toluene	10.636	91	85706	2.618	ug/l	100
64) Chlorobenzene	11.895	112	50556	2.542	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.960	131	18547	2.536	ug/l	91
66) Ethyl Benzene	11.965	91	89165	2.459	ug/l #	86
67) m/p-Xylenes	12.071	106	68900	4.847	ug/l	100
68) o-Xylene	12.401	106	34939	2.457	ug/l	97
69) Styrene	12.413	104	51814	2.274	ug/l	98
70) Isopropylbenzene	12.695	105	84282	2.335	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	27535	2.492	ug/l	96
72) 1,2,3-Trichloropropane	13.001	75	20331m	2.706	ug/l	
73) Bromobenzene	12.983	156	17039	2.324	ug/l	98
74) n-propylbenzene	13.042	91	90505	2.267	ug/l	97
75) 2-Chlorotoluene	13.130	91	55836	2.334	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	63183	2.151	ug/l	99
77) t-1,4-Dichloro-2-butene	12.742	75	8153	2.131	ug/l	87
78) 4-Chlorotoluene	13.224	91	50296	2.225	ug/l	98
79) tert-butylbenzene	13.442	119	59907	2.344	ug/l	99
80) 1,2,4-Trimethylbenzene	13.489	105	59085	2.064	ug/l	98
81) sec-Butylbenzene	13.618	105	81661	2.237	ug/l	96
82) p-Isopropyltoluene	13.736	119	61016	2.086	ug/l	96
83) 1,3-Dichlorobenzene	13.736	146	30832	2.218	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	27370	2.029	ug/l	94
85) n-Butylbenzene	14.059	91	47853	1.980	ug/l	94
86) Hexachloroethane	14.336	117	14485	2.328	ug/l	93
87) 1,2-Dichlorobenzene	14.112	146	30162	2.214	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.724	75	4961	2.343	ug/l	90
89) 1,2,4-Trichlorobenzene	15.365	180	8414	1.570	ug/l	95
90) Hexachlorobutadiene	15.471	225	7061	2.570	ug/l	76
91) Naphthalene	15.589	128	24529	1.198	ug/l	96
92) 1,2,3-Trichlorobenzene	15.753	180	7765	1.485	ug/l	89

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

