

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032423\
 Data File : VN077182.D
 Acq On : 24 Mar 2023 16:14
 Operator : JC\MD
 Sample : 01627-08 LOQ 5 PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2023

Quant Time: Mar 24 23:31:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 24 05:55:38 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 03/27/2023
 Supervised By :Semsettin Yesilyurt 03/27/2023

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

Internal Standards						
1) Bromochloromethane	7.819	128	40318	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	275924	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	302012	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	130488	31.869	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.233%			
60) 4-Bromofluorobenzene	12.854	95	150044	27.655	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.167%			
63) Toluene-d8	10.572	98	327701	30.397	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	16040	6.042	ug/l	94
3) Chloromethane	2.372	50	28081	6.647	ug/l	94
4) Vinyl Chloride	2.525	62	33373	5.603	ug/l	94
5) Bromomethane	2.954	94	35648	8.535	ug/l	97
6) Chloroethane	3.131	64	37955m	7.643	ug/l	
7) Trichlorofluoromethane	3.513	101	47130	5.496	ug/l	90
8) Diethyl Ether	3.966	74	14893	4.950	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.384	101	24538	5.473	ug/l #	22
10) 1,1-Dichloroethene	4.354	96	21020	5.010	ug/l	93
11) Methyl Iodide	4.607	142	19033	4.260	ug/l	91
12) Methyl Acetate	5.037	43	42706m	4.721	ug/l	
13) Acrolein	4.196	56	28594m	23.324	ug/l	
14) Acrylonitrile	5.731	53	66177	24.115	ug/l	94
15) Acetone	4.449	58	20507	28.580	ug/l	92
16) Carbon Disulfide	4.719	76	57979	4.893	ug/l	100
17) Allyl chloride	5.031	41	34494	4.675	ug/l	92
18) Methylene Chloride	5.284	84	25719m	4.988	ug/l	
19) trans-1,2-Dichloroethene	5.790	96	22745	5.061	ug/l	91
20) Diisopropyl ether	6.678	45	84141m	5.034	ug/l	
21) 1,1-Dichloroethane	6.590	63	49252	5.234	ug/l	96
22) cis-1,2-Dichloroethene	7.495	96	26237	4.944	ug/l	99
23) tert-Butyl Alcohol	5.531	59	20702m	22.225	ug/l	
24) Methyl tert-Butyl Ether	5.819	73	73046m	4.904	ug/l	
25) Chloroform	7.972	83	49586	5.385	ug/l	91
26) Cyclohexane	8.260	56	36730m	4.628	ug/l	
29) 1,1-Dichloropropene	8.378	75	32735	4.891	ug/l	100
30) 2-Butanone	7.495	43	91584	23.717	ug/l	98
31) 2,2-Dichloropropane	7.495	77	34751m	5.542	ug/l	
32) 1,1,1-Trichloroethane	8.172	97	40191	4.980	ug/l	97
33) Carbon Tetrachloride	8.360	117	34789	5.131	ug/l	89
34) Benzene	8.607	78	105740	5.154	ug/l #	85
35) Methacrylonitrile	7.784	41	19053	4.495	ug/l	94
36) 1,2-Dichloroethane	8.678	62	40268	5.324	ug/l	99
37) Trichloroethene	9.360	130	23775	5.126	ug/l	83
38) Methylcyclohexane	9.607	83	35330	4.434	ug/l	96
39) 1,2-Dichloropropane	9.625	63	27110	4.936	ug/l #	87
40) Dibromomethane	9.713	93	18782	5.347	ug/l	97
41) Bromodichloromethane	9.889	83	33745	4.718	ug/l #	83
42) Vinyl Acetate	6.613	43	257211	22.222	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	36888	4.782	ug/l	95
44) Isopropyl Acetate	8.689	43	57902	4.651	ug/l	99
45) 1,4-Dioxane	9.695	88	9468	93.533	ug/l #	94
46) Methyl methacrylate	9.683	41	25524	4.447	ug/l	92
47) n-amyl Acetate	12.501	43	39937	3.813	ug/l	95
48) t-1,3-Dichloropropene	10.836	75	32860	4.523	ug/l	100
49) cis-1,3-Dichloropropene	10.313	75	37504	4.715	ug/l	97
50) 1,1,2-Trichloroethane	11.019	97	25065	5.083	ug/l	92
51) Ethyl methacrylate	10.878	69	30299	3.980	ug/l	93
52) 1,3-Dichloropropane	11.166	76	44259	5.057	ug/l	100
53) Dibromochloromethane	11.366	129	23977	4.697	ug/l	96
54) 1,2-Dibromoethane	11.477	107	24287	5.006	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	60921	19.140	ug/l	96
56) Bromoform	12.583	173	16565	4.624	ug/l	97
58) 4-Methyl-2-Pentanone	10.448	43	182078	23.359	ug/l	99
59) 2-Hexanone	11.195	43	129524	22.790	ug/l	96
61) Tetrachloroethene	11.107	164	20792	5.485	ug/l	94
62) Toluene	10.630	91	106612	5.023	ug/l	99
64) Chlorobenzene	11.889	112	61788	4.920	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.960	131	23905	5.183	ug/l	96
66) Ethyl Benzene	11.966	91	107116	4.696	ug/l	90
67) m/p-Xylenes	12.077	106	76976	8.770	ug/l	96
68) o-Xylene	12.401	106	37677	4.384	ug/l	94
69) Styrene	12.413	104	56820	4.072	ug/l	95
70) Isopropylbenzene	12.701	105	95696	4.294	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	36170	4.959	ug/l	95
72) 1,2,3-Trichloropropane	12.995	75	29480m	4.566	ug/l	
73) Bromobenzene	12.983	156	22990	4.615	ug/l	92
74) n-propylbenzene	13.036	91	106289	4.120	ug/l	99
75) 2-Chlorotoluene	13.130	91	68771	4.421	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	75909	4.104	ug/l	93
77) t-1,4-Dichloro-2-butene	12.742	75	7569m	3.678	ug/l	
78) 4-Chlorotoluene	13.224	91	64136	4.286	ug/l	95
79) tert-butylbenzene	13.442	119	67574	4.276	ug/l	98
80) 1,2,4-Trimethylbenzene	13.489	105	73886	4.025	ug/l	97
81) sec-Butylbenzene	13.619	105	89420	3.919	ug/l	96
82) p-Isopropyltoluene	13.730	119	65565	3.585	ug/l	99
83) 1,3-Dichlorobenzene	13.742	146	39249	4.255	ug/l	96
84) 1,4-Dichlorobenzene	13.813	146	36971	4.114	ug/l	92
85) n-Butylbenzene	14.060	91	51597	3.337	ug/l	96
86) Hexachloroethane	14.336	117	15544	4.457	ug/l	98
87) 1,2-Dichlorobenzene	14.107	146	38891	4.216	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.724	75	5157	3.685	ug/l	94
89) 1,2,4-Trichlorobenzene	15.395	180	13114	3.187	ug/l	92
90) Hexachlorobutadiene	15.507	225	10697	4.608	ug/l	92
91) Naphthalene	15.648	128	25649	1.899	ug/l #	72
92) 1,2,3-Trichlorobenzene	15.842	180	10360	2.535	ug/l	87

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

