

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031623\
 Data File : VN077015.D
 Acq On : 16 Mar 2023 11:52
 Operator : JC\MD
 Sample : VN0316WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/17/2023
 Supervised By : Mahesh Dadoda 03/17/2023

Quant Time: Mar 17 03:20:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	52004	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	383358	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	416266	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	156968	32.839	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.467%			
60) 4-Bromofluorobenzene	12.848	95	239842	30.443	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.467%			
63) Toluene-d8	10.572	98	448458	30.630	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.100%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	143726	21.597	ug/l	97
3) Chloromethane	2.378	50	99911	16.426	ug/l	98
4) Vinyl Chloride	2.531	62	100171	18.060	ug/l	95
5) Bromomethane	2.966	94	69396	19.565	ug/l	92
6) Chloroethane	3.137	64	65641	20.140	ug/l	95
7) Trichlorofluoromethane	3.513	101	226261	21.836	ug/l	95
8) Diethyl Ether	3.972	74	89472	23.025	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.384	101	131912	22.472	ug/l	99
10) 1,1-Dichloroethene	4.354	96	124877	21.917	ug/l	99
11) Methyl Iodide	4.607	142	157878	22.996	ug/l	94
12) Methyl Acetate	5.037	43	228916	24.428	ug/l	97
13) Acrolein	4.196	56	182416	131.670	ug/l	98
14) Acrylonitrile	5.731	53	363962	117.899	ug/l	99
15) Acetone	4.443	58	128219	152.615	ug/l	94
16) Carbon Disulfide	4.725	76	360041	22.790	ug/l	98
17) Allyl chloride	5.037	41	221049	25.866	ug/l	98
18) Methylene Chloride	5.284	84	147838	22.183	ug/l	92
19) trans-1,2-Dichloroethene	5.801	96	137085	22.834	ug/l	96
20) Diisopropyl ether	6.684	45	478004	24.794	ug/l	97
21) 1,1-Dichloroethane	6.578	63	273917	23.876	ug/l	99
22) cis-1,2-Dichloroethene	7.495	96	153292	22.280	ug/l	97
23) tert-Butyl Alcohol	5.531	59	113346	126.423	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	435768	23.458	ug/l	94
25) Chloroform	7.972	83	263571	22.364	ug/l	99
26) Cyclohexane	8.260	56	248267	23.701	ug/l #	98
29) 1,1-Dichloropropene	8.378	75	202300	22.404	ug/l	97
30) 2-Butanone	7.490	43	528750	128.349	ug/l	99
31) 2,2-Dichloropropane	7.495	77	215074	24.041	ug/l #	66
32) 1,1,1-Trichloroethane	8.172	97	228459	21.691	ug/l	97
33) Carbon Tetrachloride	8.372	117	197497	21.207	ug/l	94
34) Benzene	8.613	78	602136	21.752	ug/l	98
35) Methacrylonitrile	7.790	41	113597	24.506	ug/l	97
36) 1,2-Dichloroethane	8.672	62	208253	22.444	ug/l	99
37) Trichloroethene	9.354	130	130423	19.116	ug/l	82
38) Methylcyclohexane	9.607	83	252098	22.430	ug/l	96
39) 1,2-Dichloropropane	9.625	63	159485	22.423	ug/l	95
40) Dibromomethane	9.713	93	95636	21.106	ug/l	96
41) Bromodichloromethane	9.889	83	200064	21.544	ug/l	99
42) Vinyl Acetate	6.613	43	1628188	126.790	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	201892	24.288	ug/l	100
44) Isopropyl Acetate	8.695	43	320395	23.777	ug/l	96
45) 1,4-Dioxane	9.695	88	51437	453.749	ug/l	93
46) Methyl methacrylate	9.684	41	159604	24.322	ug/l	93
47) n-amyl Acetate	12.495	43	272223	24.824	ug/l	95
48) t-1,3-Dichloropropene	10.842	75	212586	22.856	ug/l	96
49) cis-1,3-Dichloropropene	10.313	75	244891	23.181	ug/l #	88
50) 1,1,2-Trichloroethane	11.019	97	137940	20.779	ug/l	99
51) Ethyl methacrylate	10.878	69	221084	22.591	ug/l	95
52) 1,3-Dichloropropane	11.166	76	254707	22.214	ug/l	99
53) Dibromochloromethane	11.360	129	143402	21.175	ug/l	99
54) 1,2-Dibromoethane	11.472	107	137845	21.518	ug/l	100
55) 2-Chloroethyl vinyl ether	10.166	63	324211	94.489	ug/l	99
56) Bromoform	12.583	173	92065	20.320	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	1010234	120.136	ug/l	94
59) 2-Hexanone	11.195	43	766947	128.389	ug/l	94
61) Tetrachloroethene	11.101	164	106564	16.216	ug/l	92
62) Toluene	10.631	91	629943	21.962	ug/l	100
64) Chlorobenzene	11.895	112	368154	21.805	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.960	131	133585	21.065	ug/l	97
66) Ethyl Benzene	11.966	91	693675	22.275	ug/l	100
67) m/p-Xylenes	12.072	106	527725	44.737	ug/l	92
68) o-Xylene	12.401	106	257385	22.349	ug/l	96
69) Styrene	12.413	104	414842	22.210	ug/l	97
70) Isopropylbenzene	12.701	105	673889	22.489	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.942	83	205728	22.770	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	163073m	19.675	ug/l	
73) Bromobenzene	12.983	156	141209	20.882	ug/l	88
74) n-propylbenzene	13.036	91	793627	22.438	ug/l	98
75) 2-Chlorotoluene	13.130	91	484015	22.128	ug/l	95
76) 1,3,5-Trimethylbenzene	13.177	105	575872	22.203	ug/l	93
77) t-1,4-Dichloro-2-butene	12.736	75	62693	24.779	ug/l	97
78) 4-Chlorotoluene	13.224	91	464413	22.025	ug/l	93
79) tert-butylbenzene	13.442	119	478833	22.077	ug/l	95
80) 1,2,4-Trimethylbenzene	13.483	105	563052	22.090	ug/l	95
81) sec-Butylbenzene	13.619	105	685925	22.104	ug/l	99
82) p-Isopropyltoluene	13.730	119	568512	22.667	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	265326	21.206	ug/l	97
84) 1,4-Dichlorobenzene	13.813	146	260282	21.416	ug/l	96
85) n-Butylbenzene	14.060	91	488921	22.998	ug/l	97
86) Hexachloroethane	14.336	117	100758	22.500	ug/l	96
87) 1,2-Dichlorobenzene	14.107	146	263180	21.094	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.724	75	39261	22.311	ug/l	95
89) 1,2,4-Trichlorobenzene	15.395	180	131617	19.775	ug/l	98
90) Hexachlorobutadiene	15.507	225	67868	19.342	ug/l	95
91) Naphthalene	15.642	128	440775	20.880	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	131029	19.638	ug/l	98

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

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