

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031623\
 Data File : VN077016.D
 Acq On : 16 Mar 2023 12:31
 Operator : JC\MD
 Sample : VN0316WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS02

Manual Integrations
 APPROVED

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

Quant Time: Mar 17 03:21:17 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	7.819	128	42371	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	310296	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	335636	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	128075	32.886	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.633%			
60) 4-Bromofluorobenzene	12.848	95	192782	30.348	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.167%			
63) Toluene-d8	10.572	98	360891	30.571	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	108356	19.984	ug/l	96
3) Chloromethane	2.378	50	71564	14.440	ug/l	99
4) Vinyl Chloride	2.531	62	79109	17.505	ug/l	99
5) Bromomethane	2.978	94	59620	20.630	ug/l	91
6) Chloroethane	3.143	64	48760	18.362	ug/l	99
7) Trichlorofluoromethane	3.513	101	172741	20.461	ug/l	99
8) Diethyl Ether	3.972	74	68618	21.673	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.390	101	101290	21.178	ug/l	98
10) 1,1-Dichloroethene	4.354	96	93994	20.248	ug/l	100
11) Methyl Iodide	4.607	142	116391	20.808	ug/l	93
12) Methyl Acetate	5.037	43	172725	22.622	ug/l	99
13) Acrolein	4.190	56	123234	109.175	ug/l	100
14) Acrylonitrile	5.731	53	275542	109.550	ug/l	99
15) Acetone	4.437	58	98332	143.651	ug/l	94
16) Carbon Disulfide	4.725	76	274003	21.287	ug/l	100
17) Allyl chloride	5.043	41	165236	23.731	ug/l	98
18) Methylene Chloride	5.295	84	111753	20.581	ug/l	89
19) trans-1,2-Dichloroethene	5.795	96	100956	20.639	ug/l	99
20) Diisopropyl ether	6.684	45	370024	23.557	ug/l	95
21) 1,1-Dichloroethane	6.578	63	208130	22.266	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	118546	21.147	ug/l	97
23) tert-Butyl Alcohol	5.525	59	86323	118.172	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	328826	21.726	ug/l	95
25) Chloroform	7.972	83	203293	21.171	ug/l	95
26) Cyclohexane	8.266	56	183217	21.468	ug/l #	95
29) 1,1-Dichloropropene	8.378	75	152944	20.926	ug/l	98
30) 2-Butanone	7.489	43	405645	121.651	ug/l	100
31) 2,2-Dichloropropane	7.495	77	162660	22.463	ug/l #	62
32) 1,1,1-Trichloroethane	8.178	97	173709	20.376	ug/l	98
33) Carbon Tetrachloride	8.366	117	149592	19.845	ug/l	94
34) Benzene	8.613	78	462348	20.634	ug/l	97
35) Methacrylonitrile	7.789	41	78464m	20.912	ug/l	
36) 1,2-Dichloroethane	8.678	62	161464	21.499	ug/l	100
37) Trichloroethene	9.360	130	99666	18.047	ug/l	92
38) Methylcyclohexane	9.601	83	185087	20.345	ug/l	95
39) 1,2-Dichloropropane	9.625	63	121358	21.080	ug/l	95
40) Dibromomethane	9.713	93	73634	20.076	ug/l	98
41) Bromodichloromethane	9.889	83	155777	20.725	ug/l	99
42) Vinyl Acetate	6.613	43	1210286	116.439	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	154782	23.005	ug/l	96
44) Isopropyl Acetate	8.695	43	241686	22.159	ug/l	93
45) 1,4-Dioxane	9.695	88	40490	441.282	ug/l	91
46) Methyl methacrylate	9.683	41	120554	22.697	ug/l	95
47) n-amyl Acetate	12.495	43	205667	23.171	ug/l	94
48) t-1,3-Dichloropropene	10.836	75	161847	21.498	ug/l	100
49) cis-1,3-Dichloropropene	10.313	75	183040	21.406	ug/l	89
50) 1,1,2-Trichloroethane	11.019	97	107253	19.961	ug/l	99
51) Ethyl methacrylate	10.877	69	164229	20.733	ug/l	92
52) 1,3-Dichloropropane	11.166	76	190994	20.580	ug/l	98
53) Dibromochloromethane	11.360	129	107453	19.603	ug/l	97
54) 1,2-Dibromoethane	11.472	107	105754	20.396	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	324091	116.694	ug/l	98
56) Bromoform	12.583	173	71312	19.446	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	770288	113.607	ug/l	94
59) 2-Hexanone	11.195	43	579119	120.235	ug/l	94
61) Tetrachloroethene	11.107	164	80628	15.217	ug/l	84
62) Toluene	10.630	91	481963	20.839	ug/l	100
64) Chlorobenzene	11.895	112	278011	20.421	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.966	131	101769	19.903	ug/l	96
66) Ethyl Benzene	11.966	91	520095	20.713	ug/l	99
67) m/p-Xylenes	12.072	106	401730	42.237	ug/l	93
68) o-Xylene	12.401	106	195401	21.043	ug/l	96
69) Styrene	12.413	104	314121	20.857	ug/l	98
70) Isopropylbenzene	12.701	105	502552	20.800	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.936	83	161340	22.147	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	122480m	18.328	ug/l	
73) Bromobenzene	12.983	156	107500	19.717	ug/l	89
74) n-propylbenzene	13.036	91	592362	20.771	ug/l	99
75) 2-Chlorotoluene	13.130	91	364132	20.646	ug/l	95
76) 1,3,5-Trimethylbenzene	13.177	105	434546	20.779	ug/l	93
77) t-1,4-Dichloro-2-butene	12.742	75	48899	23.970	ug/l	97
78) 4-Chlorotoluene	13.224	91	350412	20.611	ug/l	92
79) tert-butylbenzene	13.442	119	357031	20.416	ug/l	93
80) 1,2,4-Trimethylbenzene	13.483	105	430604	20.952	ug/l	96
81) sec-Butylbenzene	13.618	105	515438	20.600	ug/l	97
82) p-Isopropyltoluene	13.730	119	420697	20.803	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	202421	20.065	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	197067	20.110	ug/l	96
85) n-Butylbenzene	14.060	91	359322	20.962	ug/l	98
86) Hexachloroethane	14.336	117	77046	21.338	ug/l	99
87) 1,2-Dichlorobenzene	14.107	146	200454	19.926	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.718	75	29881	21.059	ug/l	96
89) 1,2,4-Trichlorobenzene	15.395	180	99463	18.534	ug/l	98
90) Hexachlorobutadiene	15.501	225	51594	18.236	ug/l	96
91) Naphthalene	15.642	128	323943	19.032	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	99805	18.551	ug/l	98

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

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