

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062322\
 Data File : VN073071.D
 Acq On : 24 Jun 2022 02:23
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN062322

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2022
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 24 05:01:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 24 04:54:59 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.592	128	41078	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	233307	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.680	117	208209	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	121477	30.677	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.267%			
60) 4-Bromofluorobenzene	12.668	95	119333	29.957	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.867%			
63) Toluene-d8	10.374	98	348738	30.930	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.051	85	70055	21.617	ug/l	100
3) Chloromethane	2.269	50	65982	21.428	ug/l	90
4) Vinyl Chloride	2.410	62	59260	21.501	ug/l	100
5) Bromomethane	2.816	94	25878	28.515	ug/l	95
6) Chloroethane	2.981	64	36060	21.205	ug/l	98
7) Trichlorofluoromethane	3.322	101	104056	20.799	ug/l	100
8) Diethyl Ether	3.763	74	43262	21.129	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.145	101	59345	21.471	ug/l #	66
10) 1,1-Dichloroethene	4.116	96	58001	20.505	ug/l	97
11) Methyl Iodide	4.351	142	45394	16.823	ug/l	94
12) Methyl Acetate	4.781	43	114396	19.420	ug/l #	89
13) Acrolein	3.987	56	67865	114.301	ug/l	99
14) Acrylonitrile	5.481	53	226199	100.793	ug/l	99
15) Acetone	4.222	58	61456	99.278	ug/l	95
16) Carbon Disulfide	4.463	76	152276	20.415	ug/l	100
17) Allyl chloride	4.769	41	113545	21.148	ug/l	84
18) Methylene Chloride	5.022	84	68853	20.410	ug/l	95
19) trans-1,2-Dichloroethene	5.516	96	62621	20.979	ug/l	86
20) Diisopropyl ether	6.416	45	232752	20.604	ug/l	90
21) 1,1-Dichloroethane	6.304	63	120096	20.262	ug/l	98
22) cis-1,2-Dichloroethene	7.251	96	72857	20.526	ug/l	99
23) tert-Butyl Alcohol	5.292	59	91136	99.455	ug/l #	100
24) Methyl tert-Butyl Ether	5.539	73	216222	20.492	ug/l	100
25) Chloroform	7.745	83	121349	20.573	ug/l	99
26) Cyclohexane	8.028	56	109804	21.160	ug/l #	93
29) 1,1-Dichloropropene	8.151	75	87341	20.706	ug/l	99
30) 2-Butanone	7.263	43	330177	101.637	ug/l	94
31) 2,2-Dichloropropane	7.245	77	70831	34.305	ug/l	99
32) 1,1,1-Trichloroethane	7.945	97	108991	21.029	ug/l	99
33) Carbon Tetrachloride	8.133	117	91262	20.825	ug/l	94
34) Benzene	8.392	78	274896	20.937	ug/l	98
35) Methacrylonitrile	7.563	41	61644	21.330	ug/l	91
36) 1,2-Dichloroethane	8.463	62	98965	20.338	ug/l	97
37) Trichloroethene	9.145	130	66254	20.277	ug/l	91
38) Methylcyclohexane	9.392	83	104185	20.854	ug/l	91
39) 1,2-Dichloropropane	9.422	63	70845	20.868	ug/l	94
40) Dibromomethane	9.510	93	46810	20.376	ug/l	93
41) Bromodichloromethane	9.698	83	94018	20.341	ug/l	90
42) Vinyl Acetate	6.357	43	1057213	105.254	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.339	43	132830	21.711	ug/l	97
44) Isopropyl Acetate	8.492	43	193824	20.516	ug/l	98
45) 1,4-Dioxane	9.504	88	35690	424.027	ug/l	94
46) Methyl methacrylate	9.498	41	85642	19.922	ug/l	86
47) n-amyl Acetate	12.327	43	152622	20.158	ug/l	100
48) t-1,3-Dichloropropene	10.657	75	95545	22.102	ug/l	96
49) cis-1,3-Dichloropropene	10.127	75	104342	22.289	ug/l	99
50) 1,1,2-Trichloroethane	10.833	97	68702	20.643	ug/l	95
51) Ethyl methacrylate	10.698	69	114065	20.238	ug/l	93
52) 1,3-Dichloropropane	10.980	76	118217	20.651	ug/l	100
53) Dibromochloromethane	11.174	129	68568	19.816	ug/l	98
54) 1,2-Dibromoethane	11.280	107	71819	20.545	ug/l	96
55) 2-Chloroethyl vinyl ether	9.980	63	247955	102.993	ug/l	99
56) Bromoform	12.392	173	48853	19.274	ug/l #	100
58) 4-Methyl-2-Pentanone	10.269	43	638818	105.487	ug/l	97
59) 2-Hexanone	11.021	43	486443	105.163	ug/l	98
61) Tetrachloroethene	10.910	164	56451	20.970	ug/l	92
62) Toluene	10.439	91	291716	21.077	ug/l	97
64) Chlorobenzene	11.710	112	171823	20.632	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.774	131	64742	20.465	ug/l	98
66) Ethyl Benzene	11.780	91	316773	20.774	ug/l	99
67) m/p-Xylenes	11.886	106	242092	42.353	ug/l	99
68) o-Xylene	12.216	106	119304	20.668	ug/l	99
69) Styrene	12.233	104	191034	20.675	ug/l	98
70) Isopropylbenzene	12.515	105	311893	21.114	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.763	83	105096	20.607	ug/l	97
72) 1,2,3-Trichloropropane	12.815	75	84990m	21.733	ug/l	
73) Bromobenzene	12.798	156	72005	20.902	ug/l	92
74) n-propylbenzene	12.857	91	342658	20.473	ug/l	100
75) 2-Chlorotoluene	12.945	91	217174	20.749	ug/l	97
76) 1,3,5-Trimethylbenzene	12.998	105	254895	20.761	ug/l	98
77) t-1,4-Dichloro-2-butene	12.563	75	28084	22.769	ug/l	93
78) 4-Chlorotoluene	13.039	91	207617	20.618	ug/l	95
79) tert-butylbenzene	13.257	119	229725	21.164	ug/l	95
80) 1,2,4-Trimethylbenzene	13.304	105	250855m	20.826	ug/l	
81) sec-Butylbenzene	13.439	105	298764	20.420	ug/l	98
82) p-Isopropyltoluene	13.551	119	244776	20.599	ug/l	99
83) 1,3-Dichlorobenzene	13.551	146	128099	21.125	ug/l	99
84) 1,4-Dichlorobenzene	13.627	146	125117	20.647	ug/l	98
85) n-Butylbenzene	13.880	91	190231	19.673	ug/l	97
86) Hexachloroethane	14.145	117	46945	20.178	ug/l	98
87) 1,2-Dichlorobenzene	13.921	146	132583	20.897	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.539	75	26321	20.256	ug/l	95
89) 1,2,4-Trichlorobenzene	15.192	180	66549	19.963	ug/l	96
90) Hexachlorobutadiene	15.298	225	28425	21.150	ug/l	97
91) Naphthalene	15.427	128	274783	21.124	ug/l	98
92) 1,2,3-Trichlorobenzene	15.627	180	69721	20.556	ug/l	98

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

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