

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062422\
 Data File : VN073074.D
 Acq On : 24 Jun 2022 10:38
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2022
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 24 23:32:51 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	7.581	128	43826	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.898	114	251272	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.680	117	220706	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	123150	29.149	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.167%		
60) 4-Bromofluorobenzene	12.669	95	128446	30.419	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.400%		
63) Toluene-d8	10.375	98	364102	30.464	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.533%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	71946	20.808	ug/l	94
3) Chloromethane	2.269	50	67426	20.524	ug/l	96
4) Vinyl Chloride	2.410	62	58109	19.762	ug/l	91
5) Bromomethane	2.810	94	27310	28.206	ug/l	92
6) Chloroethane	2.975	64	36363	20.042	ug/l	97
7) Trichlorofluoromethane	3.316	101	107124	20.069	ug/l	99
8) Diethyl Ether	3.769	74	42213	19.324	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.140	101	62113	21.064	ug/l #	70
10) 1,1-Dichloroethene	4.116	96	59172	19.607	ug/l	97
11) Methyl Iodide	4.351	142	49765	17.286	ug/l	89
12) Methyl Acetate	4.781	43	106938	17.016	ug/l	96
13) Acrolein	3.981	56	76529	120.812	ug/l	99
14) Acrylonitrile	5.475	53	220582	92.127	ug/l	97
15) Acetone	4.222	58	56698	85.849	ug/l	96
16) Carbon Disulfide	4.457	76	152449	19.157	ug/l	95
17) Allyl chloride	4.763	41	118080	20.613	ug/l	84
18) Methylene Chloride	5.016	84	67768	18.829	ug/l	96
19) trans-1,2-Dichloroethene	5.516	96	61445	19.294	ug/l	98
20) Diisopropyl ether	6.410	45	232251	19.271	ug/l	95
21) 1,1-Dichloroethane	6.304	63	119825	18.948	ug/l	96
22) cis-1,2-Dichloroethene	7.245	96	75397	19.910	ug/l	99
23) tert-Butyl Alcohol	5.287	59	83053	84.951	ug/l #	100
24) Methyl tert-Butyl Ether	5.528	73	214339	19.039	ug/l	99
25) Chloroform	7.739	83	121619	19.326	ug/l	94
26) Cyclohexane	8.022	56	111099	20.067	ug/l #	95
29) 1,1-Dichloropropene	8.145	75	87522	19.265	ug/l	98
30) 2-Butanone	7.257	43	319967	91.452	ug/l	95
31) 2,2-Dichloropropane	7.245	77	105100	47.263	ug/l #	53
32) 1,1,1-Trichloroethane	7.939	97	105679	18.932	ug/l	96
33) Carbon Tetrachloride	8.128	117	91776	19.445	ug/l	93
34) Benzene	8.386	78	277613m	19.633	ug/l	
35) Methacrylonitrile	7.563	41	64767	20.808	ug/l	89
36) 1,2-Dichloroethane	8.463	62	100048	19.091	ug/l	98
37) Trichloroethene	9.145	130	68620	19.500	ug/l	96
38) Methylcyclohexane	9.392	83	112528	20.914	ug/l	91
39) 1,2-Dichloropropane	9.422	63	70980	19.413	ug/l	100
40) Dibromomethane	9.510	93	47921	19.368	ug/l	94
41) Bromodichloromethane	9.692	83	93140	18.711	ug/l	92
42) Vinyl Acetate	6.351	43	1059076	97.901	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.334	43	129108	19.594	ug/l	98
44) Isopropyl Acetate	8.492	43	191999	18.870	ug/l	99
45) 1,4-Dioxane	9.504	88	31626	348.879	ug/l	90
46) Methyl methacrylate	9.492	41	87225	18.839	ug/l	81
47) n-amyl Acetate	12.327	43	155094	19.020	ug/l	98
48) t-1,3-Dichloropropene	10.651	75	101786	21.862	ug/l	99
49) cis-1,3-Dichloropropene	10.122	75	110714	21.960	ug/l	98
50) 1,1,2-Trichloroethane	10.833	97	68455	19.099	ug/l	98
51) Ethyl methacrylate	10.698	69	114847	18.920	ug/l	93
52) 1,3-Dichloropropane	10.980	76	119253	19.343	ug/l	99
53) Dibromochloromethane	11.175	129	70159	18.826	ug/l	98
54) 1,2-Dibromoethane	11.280	107	71257	18.927	ug/l	96
55) 2-Chloroethyl vinyl ether	9.975	63	255662	98.602	ug/l	99
56) Bromoform	12.392	173	49317	18.066	ug/l #	100
58) 4-Methyl-2-Pentanone	10.269	43	612420	95.402	ug/l	97
59) 2-Hexanone	11.022	43	465007	94.837	ug/l	98
61) Tetrachloroethene	10.910	164	58242	20.410	ug/l	92
62) Toluene	10.439	91	295691	20.154	ug/l	97
64) Chlorobenzene	11.704	112	175770	19.911	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.775	131	66899	19.949	ug/l	98
66) Ethyl Benzene	11.780	91	317333	19.633	ug/l	98
67) m/p-Xylenes	11.886	106	244684	40.383	ug/l	100
68) o-Xylene	12.216	106	123886	20.247	ug/l	98
69) Styrene	12.227	104	191271	19.529	ug/l	99
70) Isopropylbenzene	12.516	105	318825	20.362	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.763	83	105474	19.510	ug/l	98
72) 1,2,3-Trichloropropane	12.816	75	98342m	23.724	ug/l	
73) Bromobenzene	12.792	156	72490	19.851	ug/l	91
74) n-propylbenzene	12.857	91	358381	20.200	ug/l	100
75) 2-Chlorotoluene	12.939	91	223494	20.143	ug/l	97
76) 1,3,5-Trimethylbenzene	12.992	105	259363	19.929	ug/l	97
77) t-1,4-Dichloro-2-butene	12.563	75	32836	25.114	ug/l	93
78) 4-Chlorotoluene	13.039	91	211676	19.831	ug/l	97
79) tert-butylbenzene	13.257	119	224443	19.507	ug/l	98
80) 1,2,4-Trimethylbenzene	13.304	105	256464	20.086	ug/l #	81
81) sec-Butylbenzene	13.433	105	310167	19.999	ug/l	98
82) p-Isopropyltoluene	13.551	119	254588	20.211	ug/l	98
83) 1,3-Dichlorobenzene	13.551	146	133358	20.747	ug/l	98
84) 1,4-Dichlorobenzene	13.627	146	127109	19.788	ug/l	98
85) n-Butylbenzene	13.874	91	203474	19.851	ug/l	95
86) Hexachloroethane	14.145	117	46980	19.049	ug/l	93
87) 1,2-Dichlorobenzene	13.921	146	133398	19.835	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.533	75	25716	18.670	ug/l	96
89) 1,2,4-Trichlorobenzene	15.192	180	69831	19.762	ug/l	99
90) Hexachlorobutadiene	15.298	225	30681	21.536	ug/l	98
91) Naphthalene	15.427	128	273714	19.850	ug/l	99
92) 1,2,3-Trichlorobenzene	15.621	180	73047	20.317	ug/l	99

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

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