

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\
 Data File : VN064515.D
 Acq On : 9 Nov 2020 18:46
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/10/2020 1:10:58 PM

Quant Time: Nov 10 04:02:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 09 13:16:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	62399	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	335815	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	310984	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	170923	30.94	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.13%
60) 4-Bromofluorobenzene	12.38	95	156801	29.43	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.10%
63) Toluene-d8	10.06	98	434268	29.94	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	85540	20.469 ug/l	98
3) Chloromethane	2.04	50	97233	20.390 ug/l	100
4) Vinyl Chloride	2.17	62	105950	20.506 ug/l	96
5) Bromomethane	2.54	94	66317	19.611 ug/l	98
6) Chloroethane	2.68	64	65840	20.406 ug/l	97
7) Trichlorofluoromethane	2.99	101	155745	20.817 ug/l	97
8) Diethyl Ether	3.38	74	54073	20.237 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.71	101	69758	19.810 ug/l	52
10) 1,1-Dichloroethene	3.69	96	66586	19.767 ug/l	95
11) Methyl Iodide	3.91	142	81769	19.690 ug/l	99
12) Methyl Acetate	4.29	43	86038	20.949 ug/l	99
13) Acrolein	3.57	56	53882	129.734 ug/l	99
14) Acrylonitrile	4.94	53	172721	94.559 ug/l	99
15) Acetone	3.78	58	48759	80.885 ug/l	94
16) Carbon Disulfide	4.01	76	201262	19.688 ug/l	100
17) Allyl chloride	4.28	41	127701	20.177 ug/l	95
18) Methylene Chloride	4.51	84	81353	20.338 ug/l	93
19) trans-1,2-Dichloroethene	4.99	96	76170	19.951 ug/l	97
20) Diisopropyl ether	5.91	45	271812	19.724 ug/l	96
21) 1,1-Dichloroethane	5.80	63	154674	20.410 ug/l	99
22) cis-1,2-Dichloroethene	6.78	96	88133	20.369 ug/l	93
23) tert-Butyl Alcohol	4.75	59	58611	93.710 ug/l	# 100
24) Methyl tert-Butyl Ether	5.00	73	237789	19.958 ug/l	# 72
25) Chloroform	7.33	83	161822	20.321 ug/l	97
26) Cyclohexane	7.61	56	112564	19.239 ug/l	# 100
29) 1,1-Dichloropropene	7.75	75	112993	19.389 ug/l	100
30) 2-Butanone	6.79	43	246058	85.294 ug/l	99
31) 2,2-Dichloropropane	6.78	77	131628	19.015 ug/l	98
32) 1,1,1-Trichloroethane	7.53	97	142814	19.979 ug/l	99
33) Carbon Tetrachloride	7.74	117	127725	20.008 ug/l	97
34) Benzene	8.00	78	334894	19.847 ug/l	99
35) Methacrylonitrile	7.13	41	50853	18.843 ug/l	94
36) 1,2-Dichloroethane	8.09	62	137355	19.836 ug/l	# 92
37) Trichloroethene	8.80	130	84582	19.825 ug/l	97
38) Methylcyclohexane	9.05	83	96424	18.293 ug/l	97
39) 1,2-Dichloropropane	9.08	63	89288	19.693 ug/l	98
40) Dibromomethane	9.18	93	62070	20.293 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	129647	19.557	ug/l	100
42) Vinyl Acetate	5.85	43	1102473	95.461	ug/l	99
43) Ethyl Acetate	6.89	43	103824	18.496	ug/l	95
44) Isopropyl Acetate	8.13	43	183768	18.965	ug/l	96
45) 1,4-Dioxane	9.17	88	23957	352.692	ug/l	96
46) Methyl methacrylate	9.17	41	91737	19.037	ug/l	98
47) n-amyl Acetate	12.05	43	147908	17.645	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	134527	19.149	ug/l	98
49) cis-1,3-Dichloropropene	9.81	75	141696	19.196	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	83646	19.947	ug/l	94
51) Ethyl methacrylate	10.40	69	108870	18.117	ug/l	93
52) 1,3-Dichloropropane	10.68	76	141613	19.657	ug/l	99
53) Dibromochloromethane	10.87	129	91443	19.040	ug/l	97
54) 1,2-Dibromoethane	10.98	107	84528	19.707	ug/l	98
55) 2-Chloroethyl vinyl ether	9.67	63	270571	86.039	ug/l	99
56) Bromoform	12.10	173	59624	18.919	ug/l	97
58) 4-Methyl-2-Pentanone	9.96	43	552598	96.762	ug/l	99
59) 2-Hexanone	10.72	43	386892	89.946	ug/l	100
61) Tetrachloroethene	10.60	164	79932	20.563	ug/l	97
62) Toluene	10.13	91	356339	19.512	ug/l	98
64) Chlorobenzene	11.41	112	213896	19.703	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.48	131	84992	20.027	ug/l	100
66) Ethyl Benzene	11.48	91	378545	19.206	ug/l	99
67) m/p-Xylenes	11.59	106	285257	39.211	ug/l	98
68) o-Xylene	11.92	106	133951	19.457	ug/l	97
69) Styrene	11.94	104	227617	19.306	ug/l	99
70) Isopropylbenzene	12.23	105	354557	19.676	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	112431	19.483	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	107246m	18.635	ug/l	
73) Bromobenzene	12.50	156	85696	19.225	ug/l	99
74) n-propylbenzene	12.57	91	414718	19.566	ug/l	98
75) 2-Chlorotoluene	12.65	91	263764	19.792	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	298163	19.601	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	36406	17.350	ug/l	93
78) 4-Chlorotoluene	12.75	91	266790	19.052	ug/l	100
79) tert-butylbenzene	12.97	119	231352	19.380	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	302054	19.704	ug/l	99
81) sec-Butylbenzene	13.15	105	305993	19.337	ug/l	100
82) p-Isopropyltoluene	13.26	119	267463	18.919	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	151508	19.320	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	149741	19.199	ug/l	97
85) n-Butylbenzene	13.59	91	226164	18.453	ug/l	100
86) Hexachloroethane	13.85	117	53058	18.835	ug/l	99
87) 1,2-Dichlorobenzene	13.63	146	151762	19.870	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.24	75	22578	18.110	ug/l	97
89) 1,2,4-Trichlorobenzene	14.88	180	58517	16.874	ug/l	99
90) Hexachlorobutadiene	14.98	225	33068	19.145	ug/l	97
91) Naphthalene	15.10	128	190119	16.573	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	62573	17.829	ug/l	96

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

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