

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\
 Data File : VN064506.D
 Acq On : 9 Nov 2020 12:37
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 11/10/2020 1:10:33 PM

Quant Time: Nov 09 12:58:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 09 12:16:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	70756	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	381977	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	365494	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	181682	31.09	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.63%
60) 4-Bromofluorobenzene	12.38	95	191061	30.73	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	102.43%
63) Toluene-d8	10.06	98	503447	30.41	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	494508	108.617	ug/l 97
3) Chloromethane	2.04	50	561777	116.626	ug/l 98
4) Vinyl Chloride	2.17	62	609491	121.767	ug/l 98
5) Bromomethane	2.52	94	375209	114.308	ug/l 95
6) Chloroethane	2.67	64	375545	126.287	ug/l 99
7) Trichlorofluoromethane	2.98	101	848144	105.321	ug/l 95
8) Diethyl Ether	3.37	74	310131	120.431	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.71	101	404147	101.077	ug/l 51
10) 1,1-Dichloroethene	3.69	96	391588	102.711	ug/l 98
11) Methyl Iodide	3.91	142	524284	104.119	ug/l 98
12) Methyl Acetate	4.28	43	497635	121.258	ug/l 97
13) Acrolein	3.57	56	255677	658.021	ug/l 99
14) Acrylonitrile	4.94	53	1118320	612.529	ug/l 100
15) Acetone	3.78	58	335959	533.387	ug/l 97
16) Carbon Disulfide	4.01	76	1193641	108.774	ug/l 98
17) Allyl chloride	4.27	41	777326	114.792	ug/l 100
18) Methylene Chloride	4.50	84	463984	104.746	ug/l 93
19) trans-1,2-Dichloroethene	4.99	96	450688	107.169	ug/l 99
20) Diisopropyl ether	5.91	45	1708586	118.721	ug/l 95
21) 1,1-Dichloroethane	5.80	63	897053	110.450	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	525380	107.097	ug/l 94
23) tert-Butyl Alcohol	4.75	59	380748	557.303	ug/l # 100
24) Methyl tert-Butyl Ether	5.00	73	1467862	108.628	ug/l # 73
25) Chloroform	7.33	83	937160	107.629	ug/l 99
26) Cyclohexane	7.61	56	734737	114.569	ug/l # 100
29) 1,1-Dichloropropene	7.75	75	699636	112.019	ug/l 100
30) 2-Butanone	6.79	43	1729717	605.414	ug/l # 81
31) 2,2-Dichloropropane	6.78	77	824552	108.502	ug/l 99
32) 1,1,1-Trichloroethane	7.53	97	844524	105.114	ug/l 97
33) Carbon Tetrachloride	7.73	117	758665	104.942	ug/l 98
34) Benzene	8.00	78	2026503	114.835	ug/l # 88
35) Methacrylonitrile	7.13	41	360054	129.348	ug/l 95
36) 1,2-Dichloroethane	8.09	62	798372	109.672	ug/l 99
37) Trichloroethene	8.80	130	502142	103.166	ug/l 99
38) Methylcyclohexane	9.05	83	657980	117.198	ug/l 99
39) 1,2-Dichloropropane	9.08	63	542849	118.349	ug/l 100
40) Dibromomethane	9.17	93	362546	110.777	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	793013	114.298	ug/l	99
42) Vinyl Acetate	5.85	43	7244031	605.779	ug/l	99
43) Ethyl Acetate	6.89	43	692637	124.819	ug/l	98
44) Isopropyl Acetate	8.13	43	1190587	122.688	ug/l	96
45) 1,4-Dioxane	9.17	88	164094	2367.000	ug/l	99
46) Methyl methacrylate	9.17	41	618805	129.048	ug/l	95
47) n-amyl Acetate	12.04	43	1118894	135.242	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	881355	115.787	ug/l	98
49) cis-1,3-Dichloropropene	9.81	75	911312	115.798	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	501221	114.285	ug/l	98
51) Ethyl methacrylate	10.40	69	791829	125.948	ug/l	96
52) 1,3-Dichloropropane	10.68	76	874048	118.326	ug/l	99
53) Dibromochloromethane	10.87	129	588856	110.003	ug/l	100
54) 1,2-Dibromoethane	10.98	107	529094	113.881	ug/l	98
55) 2-Chloroethyl vinyl ether	9.66	63	2002912	584.837	ug/l	99
56) Bromoform	12.10	173	395513	105.284	ug/l	97
58) 4-Methyl-2-Pentanone	9.96	43	3616293	610.506	ug/l	98
59) 2-Hexanone	10.72	43	2748279	625.215	ug/l	97
61) Tetrachloroethene	10.60	164	462195	94.880	ug/l	99
62) Toluene	10.13	91	2254169	109.385	ug/l	99
64) Chlorobenzene	11.41	112	1351355	105.870	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	531802	107.470	ug/l	98
66) Ethyl Benzene	11.48	91	2544171	113.093	ug/l	99
67) m/p-Xylenes	11.59	106	1871545	221.015	ug/l	99
68) o-Xylene	11.92	106	897527	110.529	ug/l	97
69) Styrene	11.94	104	1569635	115.157	ug/l	98
70) Isopropylbenzene	12.22	105	2357175	111.979	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	722053	120.147	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	687208m	110.980	ug/l	
73) Bromobenzene	12.50	156	565805	104.943	ug/l	98
74) n-propylbenzene	12.57	91	2769554	118.467	ug/l	99
75) 2-Chlorotoluene	12.65	91	1697889	114.821	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	1987602	113.602	ug/l	97
77) t-1,4-Dichloro-2-butene	12.27	75	278797	126.583	ug/l	99
78) 4-Chlorotoluene	12.75	91	1810208	117.870	ug/l	99
79) tert-butylbenzene	12.97	119	1574367	114.468	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	2023680	114.856	ug/l	99
81) sec-Butylbenzene	13.14	105	2077495	117.450	ug/l	100
82) p-Isopropyltoluene	13.26	119	1893398	117.133	ug/l	98
83) 1,3-Dichlorobenzene	13.26	146	1018498	109.871	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	1018303	109.637	ug/l	99
85) n-Butylbenzene	13.59	91	1656274	127.791	ug/l	98
86) Hexachloroethane	13.85	117	354473	114.887	ug/l	98
87) 1,2-Dichlorobenzene	13.63	146	998646	112.130	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	159332	122.886	ug/l	97
89) 1,2,4-Trichlorobenzene	14.88	180	486195	113.436	ug/l	97
90) Hexachlorobutadiene	14.98	225	209168	91.730	ug/l	99
91) Naphthalene	15.10	128	1657928	127.710	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	471899	109.457	ug/l	97

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

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