

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041219\
 Data File : VN054995.D
 Acq On : 12 Apr 2019 13:02
 Operator : JC/SP
 Sample : VN0412WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 9:36:58 AM

Quant Time: Apr 12 23:29:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	74164	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	394509	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	345564	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	163351	28.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.33%
60) 4-Bromofluorobenzene	12.40	95	157725	29.32	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.73%
63) Toluene-d8	10.09	98	496261	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	84030	19.265	ug/l 99
3) Chloromethane	2.06	50	118003	20.027	ug/l 97
4) Vinyl Chloride	2.19	62	100986	19.819	ug/l 98
5) Bromomethane	2.56	94	58192	19.744	ug/l 96
6) Chloroethane	2.71	64	55982	19.617	ug/l 98
7) Trichlorofluoromethane	3.02	101	128564	19.745	ug/l 96
8) Diethyl Ether	3.41	74	41878	20.032	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	69569	19.546	ug/l 97
10) 1,1-Dichloroethene	3.73	96	62975	19.137	ug/l 99
11) Methyl Iodide	3.94	142	99229	19.926	ug/l 99
12) Methyl Acetate	4.33	43	87842	21.702	ug/l 100
13) Acrolein	3.61	56	33158	93.471	ug/l 99
14) Acrylonitrile	4.99	53	172299	103.901	ug/l 99
15) Acetone	3.82	58	35767	87.162	ug/l 98
16) Carbon Disulfide	4.04	76	206625	18.719	ug/l 98
17) Allyl chloride	4.32	41	162544	20.058	ug/l 97
18) Methylene Chloride	4.54	84	98474	20.244	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	86195	20.121	ug/l 97
20) Diisopropyl ether	5.96	45	327664	19.959	ug/l 97
21) 1,1-Dichloroethane	5.85	63	176900	20.174	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	97909	19.664	ug/l 99
23) tert-Butyl Alcohol	4.82	59	29052	109.871	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	231250	20.928	ug/l # 67
25) Chloroform	7.37	83	169566	20.188	ug/l 99
26) Cyclohexane	7.65	56	158713	19.508	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	123237	20.058	ug/l 99
30) 2-Butanone	6.85	43	210425	103.177	ug/l 100
31) 2,2-Dichloropropane	6.82	77	112896	19.964	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	134577	20.723	ug/l 99
33) Carbon Tetrachloride	7.77	117	112998	20.098	ug/l 98
34) Benzene	8.04	78	374362	20.561	ug/l 98
35) Methacrylonitrile	7.18	41	51728	21.519	ug/l 98
36) 1,2-Dichloroethane	8.12	62	132714	21.327	ug/l 99
37) Trichloroethene	8.83	130	93210	20.082	ug/l 95
38) Methylcyclohexane	9.08	83	138822	19.484	ug/l 99
39) 1,2-Dichloropropane	9.12	63	105782	21.041	ug/l 99
40) Dibromomethane	9.21	93	59966	21.102	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	120367	20.524	ug/l	95
42) Vinyl Acetate	5.90	43	1077658	104.520	ug/l	100
43) Ethyl Acetate	6.94	43	88165	21.220	ug/l	94
44) Isopropyl Acetate	8.17	43	151026	21.449	ug/l	97
45) 1,4-Dioxane	9.21	88	16523	423.573	ug/l	92
46) Methyl methacrylate	9.20	41	79628	21.861	ug/l	92
47) n-amyl Acetate	12.07	43	106520	20.540	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	105067	19.509	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	130984	19.701	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	81732	21.176	ug/l	100
51) Ethyl methacrylate	10.43	69	92953	20.203	ug/l	98
52) 1,3-Dichloropropane	10.71	76	141920	20.984	ug/l	100
53) Dibromochloromethane	10.90	129	79697	20.046	ug/l	99
54) 1,2-Dibromoethane	11.01	107	74972	20.691	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	183447	95.374	ug/l	99
56) Bromoform	12.13	173	46465	18.600	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	437265	109.725	ug/l	98
59) 2-Hexanone	10.75	43	268546	106.076	ug/l	98
61) Tetrachloroethene	10.63	164	93627	20.819	ug/l	97
62) Toluene	10.16	91	395607	20.777	ug/l	99
64) Chlorobenzene	11.43	112	235642	20.500	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	84074	20.565	ug/l	99
66) Ethyl Benzene	11.51	91	410275	20.101	ug/l	98
67) m/p-Xylenes	11.62	106	313343	41.301	ug/l	97
68) o-Xylene	11.95	106	153278	20.444	ug/l	100
69) Styrene	11.96	104	230083	19.763	ug/l	98
70) Isopropylbenzene	12.25	105	408829	20.395	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	100167	21.847	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	87203m	23.031	ug/l	
73) Bromobenzene	12.53	156	93929	19.824	ug/l	97
74) n-propylbenzene	12.59	91	449640	20.036	ug/l	99
75) 2-Chlorotoluene	12.67	91	278354	20.566	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	330840	20.414	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	17468	18.302	ug/l	93
78) 4-Chlorotoluene	12.77	91	255660	19.824	ug/l	100
79) tert-butylbenzene	12.99	119	286143	20.405	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	320733	20.145	ug/l	97
81) sec-Butylbenzene	13.17	105	379392	20.248	ug/l	99
82) p-Isopropyltoluene	13.29	119	307332	19.435	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	156635	19.761	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	143753	19.085	ug/l	99
85) n-Butylbenzene	13.61	91	225415	17.895	ug/l	99
86) Hexachloroethane	13.87	117	48529	19.171	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	159173	20.505	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12551	20.597	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	59399	17.115	ug/l	97
90) Hexachlorobutadiene	15.01	225	48345	19.106	ug/l	98
91) Naphthalene	15.13	128	131201	18.054	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	62928	18.130	ug/l	98

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

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