

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080119\
 Data File : VN057025.D
 Acq On : 1 Aug 2019 10:13
 Operator : JC/SP
 Sample : VN0801WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0801WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 10:44:55 AM

Quant Time: Aug 02 10:24:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 04:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	86906	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	8.57	114	464614	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	402232	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	166751	29.32	ug/l	-0.01
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.73%
60) 4-Bromofluorobenzene	12.40	95	171488	28.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.83%
63) Toluene-d8	10.08	98	576868	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	109396	21.054	ug/l 98
3) Chloromethane	2.05	50	122126	19.261	ug/l 99
4) Vinyl Chloride	2.18	62	114532	18.735	ug/l 98
5) Bromomethane	2.55	94	69603	18.544	ug/l 97
6) Chloroethane	2.69	64	62626	18.469	ug/l 97
7) Trichlorofluoromethane	3.00	101	159367	21.407	ug/l 97
8) Diethyl Ether	3.40	74	55463	19.994	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	96348	20.608	ug/l 96
10) 1,1-Dichloroethene	3.72	96	91445	19.710	ug/l 93
11) Methyl Iodide	3.94	142	124499	18.138	ug/l 98
12) Methyl Acetate	4.31	43	84836	14.941	ug/l # 90
13) Acrolein	3.59	56	81236	126.415	ug/l 97
14) Acrylonitrile	4.97	53	195107	89.098	ug/l 100
15) Acetone	3.81	58	66289	117.090	ug/l 95
16) Carbon Disulfide	4.04	76	241288	19.287	ug/l 99
17) Allyl chloride	4.31	41	138413	17.828	ug/l 96
18) Methylene Chloride	4.54	84	102774	19.032	ug/l 97
19) trans-1,2-Dichloroethene	5.02	96	97860	19.930	ug/l 99
20) Diisopropyl ether	5.93	45	293346	18.609	ug/l 98
21) 1,1-Dichloroethane	5.83	63	171782	18.752	ug/l 98
22) cis-1,2-Dichloroethene	6.82	96	109290	19.205	ug/l 99
23) tert-Butyl Alcohol	4.77	59	68072	93.151	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	263358	18.775	ug/l 99
25) Chloroform	7.36	83	174720	19.551	ug/l 97
26) Cyclohexane	7.64	56	163356	19.412	ug/l # 98
29) 1,1-Dichloropropene	7.78	75	133080	20.184	ug/l 98
30) 2-Butanone	6.82	43	251743	95.036	ug/l 99
31) 2,2-Dichloropropane	6.81	77	131655	21.517	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	147734	20.393	ug/l 98
33) Carbon Tetrachloride	7.76	117	126079	19.940	ug/l 97
34) Benzene	8.03	78	398611	19.187	ug/l 98
35) Methacrylonitrile	7.18	41	62110m	23.479	ug/l
36) 1,2-Dichloroethane	8.11	62	123595	19.137	ug/l 97
37) Trichloroethene	8.82	130	112405	20.182	ug/l 100
38) Methylcyclohexane	9.07	83	169152	20.168	ug/l 99
39) 1,2-Dichloropropane	9.11	63	105061	18.946	ug/l 96
40) Dibromomethane	9.20	93	67408	19.815	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	128140	19.603	ug/l	99
42) Vinyl Acetate	5.88	43	1082085	91.728	ug/l	99
43) Ethyl Acetate	6.91	43	100506	18.508	ug/l	96
44) Isopropyl Acetate	8.15	43	164469m	18.170	ug/l	
45) 1,4-Dioxane	9.19	88	33769	391.874	ug/l	92
46) Methyl methacrylate	9.19	41	77746	17.217	ug/l	95
47) n-amyl Acetate	12.07	43	115622	15.956	ug/l	100
48) t-1,3-Dichloropropene	10.37	75	129259	19.002	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	151895	19.162	ug/l	97
50) 1,1,2-Trichloroethane	10.55	97	94973	19.445	ug/l	98
51) Ethyl methacrylate	10.42	69	125808	17.808	ug/l	100
52) 1,3-Dichloropropane	10.70	76	159575	19.359	ug/l	99
53) Dibromochloromethane	10.90	129	97675	19.239	ug/l	99
54) 1,2-Dibromoethane	11.00	107	95743	19.215	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	257307	84.098	ug/l	99
56) Bromoform	12.12	173	66546	18.945	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	486248	90.083	ug/l	97
59) 2-Hexanone	10.74	43	337253	91.691	ug/l	98
61) Tetrachloroethene	10.63	164	121120	21.486	ug/l	99
62) Toluene	10.15	91	431000	19.702	ug/l	99
64) Chlorobenzene	11.43	112	262368	19.911	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.50	131	98968	19.829	ug/l	98
66) Ethyl Benzene	11.50	91	455656	19.766	ug/l	100
67) m/p-Xylenes	11.62	106	342130	39.800	ug/l	98
68) o-Xylene	11.94	106	165179	19.544	ug/l	99
69) Styrene	11.96	104	262180	19.143	ug/l	100
70) Isopropylbenzene	12.24	105	445592	20.023	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	117609	18.869	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	101693m	18.543	ug/l	
73) Bromobenzene	12.52	156	112838	19.650	ug/l	98
74) n-propylbenzene	12.59	91	475614	19.546	ug/l	99
75) 2-Chlorotoluene	12.67	91	288906	19.584	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	375638	20.051	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	30301	17.598	ug/l	96
78) 4-Chlorotoluene	12.77	91	263415	18.785	ug/l	98
79) tert-butylbenzene	12.99	119	329523	20.383	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	363225	19.888	ug/l	99
81) sec-Butylbenzene	13.17	105	415828	19.701	ug/l	99
82) p-Isopropyltoluene	13.29	119	377788	19.930	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	166200	18.382	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	151619	17.736	ug/l	99
85) n-Butylbenzene	13.61	91	268211	18.019	ug/l	98
86) Hexachloroethane	13.87	117	64721	20.401	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	171361	19.081	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16789	17.411	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	58864	17.532	ug/l	95
90) Hexachlorobutadiene	15.00	225	73875	22.379	ug/l	98
91) Naphthalene	15.12	128	129721	15.851	ug/l	99
92) 1,2,3-Trichlorobenzene	15.29	180	66450	13.996	ug/l	98

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

