

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
 Data File : VN054978.D
 Acq On : 11 Apr 2019 15:21
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:41:12 PM

Quant Time: Apr 12 07:50:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:37:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	76417	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	420938	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	371093	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	175602	32.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.87%
60) 4-Bromofluorobenzene	12.40	95	175558	31.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.67%
63) Toluene-d8	10.09	98	534268	29.83	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	219483	57.216	ug/l 100
3) Chloromethane	2.06	50	296290	58.351	ug/l 96
4) Vinyl Chloride	2.19	62	259370	51.499	ug/l 99
5) Bromomethane	2.56	94	148964	48.358	ug/l 94
6) Chloroethane	2.71	64	144554	49.026	ug/l 99
7) Trichlorofluoromethane	3.02	101	330868	53.869	ug/l 98
8) Diethyl Ether	3.41	74	110158	48.665	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	180483	46.112	ug/l 98
10) 1,1-Dichloroethene	3.73	96	165309	45.312	ug/l 98
11) Methyl Iodide	3.94	142	261099	48.684	ug/l 100
12) Methyl Acetate	4.33	43	214411	68.375	ug/l 100
13) Acrolein	3.61	56	89774	298.545	ug/l 99
14) Acrylonitrile	4.99	53	436981	296.200	ug/l 97
15) Acetone	3.82	58	108125	253.125	ug/l 95
16) Carbon Disulfide	4.04	76	572957	48.655	ug/l 98
17) Allyl chloride	4.32	41	424998	65.006	ug/l 98
18) Methylene Chloride	4.54	84	245317	57.259	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	226241	56.680	ug/l 99
20) Diisopropyl ether	5.96	45	864929	65.855	ug/l 99
21) 1,1-Dichloroethane	5.85	63	457945	59.117	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	258331	57.946	ug/l 100
23) tert-Butyl Alcohol	4.81	59	66532m	255.578	ug/l
24) Methyl tert-Butyl Ether	5.05	73	580181	58.704	ug/l # 66
25) Chloroform	7.37	83	440014	58.934	ug/l 98
26) Cyclohexane	7.65	56	423119	60.347	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	339374	58.739	ug/l 98
30) 2-Butanone	6.85	43	570262	313.179	ug/l 99
31) 2,2-Dichloropropane	6.82	77	305387	53.827	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	351951	56.647	ug/l 99
33) Carbon Tetrachloride	7.77	117	301446	54.920	ug/l 98
34) Benzene	8.04	78	987751	57.537	ug/l # 93
35) Methacrylonitrile	7.18	41	127402	61.323	ug/l 95
36) 1,2-Dichloroethane	8.12	62	337732	60.581	ug/l # 88
37) Trichloroethene	8.83	130	249798	55.560	ug/l 96
38) Methylcyclohexane	9.08	83	383063	56.245	ug/l 99
39) 1,2-Dichloropropane	9.12	63	274834	58.208	ug/l 99
40) Dibromomethane	9.21	93	152468	56.496	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	321028	56.345	ug/l	99
42) Vinyl Acetate	5.90	43	2862275	307.169	ug/l	99
43) Ethyl Acetate	6.94	43	222795	58.587	ug/l	100
44) Isopropyl Acetate	8.17	43	389632	58.787	ug/l	97
45) 1,4-Dioxane	9.20	88	41122	1167.151	ug/l	94
46) Methyl methacrylate	9.20	41	206545	64.756	ug/l	97
47) n-amyl Acetate	12.07	43	291343	60.866	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	299242	53.306	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	366546	55.173	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	211929	56.201	ug/l	99
51) Ethyl methacrylate	10.43	69	249980	56.326	ug/l	98
52) 1,3-Dichloropropane	10.71	76	371512	57.554	ug/l	100
53) Dibromochloromethane	10.90	129	218299	53.339	ug/l	98
54) 1,2-Dibromoethane	11.00	107	199358	56.118	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	531349	260.357	ug/l	99
56) Bromoform	12.13	173	136374	50.701	ug/l #	99
58) 4-Methyl-2-Pentanone	9.99	43	1114843	308.108	ug/l	99
59) 2-Hexanone	10.75	43	706999	298.960	ug/l	99
61) Tetrachloroethene	10.63	164	246105	53.998	ug/l	100
62) Toluene	10.16	91	1037013	56.968	ug/l	99
64) Chlorobenzene	11.43	112	630181	56.743	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	226191	55.797	ug/l	99
66) Ethyl Benzene	11.51	91	1118628	58.799	ug/l	100
67) m/p-Xylenes	11.62	106	835778	117.225	ug/l	99
68) o-Xylene	11.95	106	411355	59.289	ug/l	99
69) Styrene	11.96	104	640947	58.956	ug/l	99
70) Isopropylbenzene	12.25	105	1097654	60.244	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	251051	56.243	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	206034m	60.424	ug/l	
73) Bromobenzene	12.53	156	261130	57.200	ug/l	99
74) n-propylbenzene	12.59	91	1242634	57.586	ug/l	99
75) 2-Chlorotoluene	12.67	91	740474	58.387	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	884354	57.583	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	51754	44.673	ug/l	91
78) 4-Chlorotoluene	12.77	91	721639	57.347	ug/l	100
79) tert-butylbenzene	12.99	119	774069	57.392	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	886427	58.377	ug/l	99
81) sec-Butylbenzene	13.17	105	1030563	55.948	ug/l	99
82) p-Isopropyltoluene	13.29	119	877523	55.989	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	447700	56.097	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	427144	56.188	ug/l	98
85) n-Butylbenzene	13.61	91	707111	52.710	ug/l	98
86) Hexachloroethane	13.87	117	139574	47.857	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	440829	56.911	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	33375	52.945	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	202530	53.444	ug/l	97
90) Hexachlorobutadiene	15.01	225	133624	46.635	ug/l	97
91) Naphthalene	15.13	128	413601	54.992	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	196843	52.091	ug/l	99

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

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