

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056018.D
 Acq On : 5 Jun 2019 20:08
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 6/6/2019 10:19:38 AM

Quant Time: Jun 06 03:55:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 03:18:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	54715	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	299182	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	269453	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	100939	28.44	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.80%
60) 4-Bromofluorobenzene	12.40	95	125282	30.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.83%
63) Toluene-d8	10.09	98	360740	29.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	317064	123.151	ug/l 99
3) Chloromethane	2.06	50	354150	103.133	ug/l 99
4) Vinyl Chloride	2.18	62	362504	102.716	ug/l 100
5) Bromomethane	2.52	94	224686	105.964	ug/l 100
6) Chloroethane	2.68	64	187531	91.388	ug/l 95
7) Trichlorofluoromethane	3.00	101	448030	101.269	ug/l 97
8) Diethyl Ether	3.40	74	187583	97.517	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	277632	100.144	ug/l 99
10) 1,1-Dichloroethene	3.72	96	285841	99.296	ug/l 97
11) Methyl Iodide	3.94	142	464379	110.896	ug/l 98
12) Methyl Acetate	4.33	43	318970	90.885	ug/l 99
13) Acrolein	3.60	56	80388	187.674	ug/l 99
14) Acrylonitrile	4.99	53	758314	477.953	ug/l 99
15) Acetone	3.82	58	244272	486.818	ug/l 98
16) Carbon Disulfide	4.04	76	719326	91.223	ug/l 99
17) Allyl chloride	4.31	41	450792	89.785	ug/l 99
18) Methylene Chloride	4.54	84	321134	97.306	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	302023	97.574	ug/l 96
20) Diisopropyl ether	5.96	45	906870	91.375	ug/l 94
21) 1,1-Dichloroethane	5.84	63	528167	94.085	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	351926	97.457	ug/l 100
23) tert-Butyl Alcohol	4.82	59	291267m	429.017	ug/l
24) Methyl tert-Butyl Ether	5.05	73	901748	93.519	ug/l 98
25) Chloroform	7.37	83	526965	94.667	ug/l 99
26) Cyclohexane	7.65	56	490919	94.477	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	407743	98.414	ug/l 100
30) 2-Butanone	6.84	43	1051370	477.598	ug/l 99
31) 2,2-Dichloropropane	6.82	77	380931	82.674	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	454090	93.797	ug/l 99
33) Carbon Tetrachloride	7.77	117	386839	90.601	ug/l 98
34) Benzene	8.04	78	1265237	98.193	ug/l # 92
35) Methacrylonitrile	7.17	41	195455	95.277	ug/l 97
36) 1,2-Dichloroethane	8.12	62	391079	93.856	ug/l 99
37) Trichloroethene	8.83	130	357974	99.281	ug/l 98
38) Methylcyclohexane	9.08	83	515047	98.151	ug/l 98
39) 1,2-Dichloropropane	9.12	63	327984	95.498	ug/l 97
40) Dibromomethane	9.21	93	218552	97.946	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	406288	91.821	ug/l	99
42) Vinyl Acetate	5.90	43	3861942	460.096	ug/l	100
43) Ethyl Acetate	6.93	43	401916	93.585	ug/l	99
44) Isopropyl Acetate	8.17	43	645474	91.973	ug/l	97
45) 1,4-Dioxane	9.20	88	133939	1967.008	ug/l	99
46) Methyl methacrylate	9.20	41	318857	97.081	ug/l	98
47) n-amyl Acetate	12.07	43	546348	94.426	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	447872	92.723	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	505816	94.231	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	320335	98.600	ug/l	98
51) Ethyl methacrylate	10.43	69	504999	98.162	ug/l	99
52) 1,3-Dichloropropane	10.71	76	523659	98.122	ug/l	99
53) Dibromochloromethane	10.90	129	346087	94.204	ug/l	99
54) 1,2-Dibromoethane	11.00	107	341807	101.684	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	925272	471.212	ug/l	100
56) Bromoform	12.13	173	261783	89.339	ug/l #	98
58) 4-Methyl-2-Pentanone	9.99	43	1997233	458.543	ug/l	100
59) 2-Hexanone	10.75	43	1436808	460.589	ug/l	98
61) Tetrachloroethene	10.63	164	355713	97.226	ug/l	99
62) Toluene	10.16	91	1395803	96.590	ug/l	99
64) Chlorobenzene	11.43	112	866996	98.986	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	321201	93.256	ug/l	98
66) Ethyl Benzene	11.51	91	1527232	97.222	ug/l	100
67) m/p-Xylenes	11.62	106	1172220	196.295	ug/l	98
68) o-Xylene	11.95	106	571084	96.877	ug/l	99
69) Styrene	11.96	104	972195	100.282	ug/l	100
70) Isopropylbenzene	12.25	105	1487630	96.372	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	452144	95.654	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	365641m	90.376	ug/l	
73) Bromobenzene	12.53	156	411261	100.747	ug/l	99
74) n-propylbenzene	12.59	91	1650605	99.893	ug/l	100
75) 2-Chlorotoluene	12.67	91	992381	98.104	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	1247213	98.062	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	130824	86.526	ug/l	91
78) 4-Chlorotoluene	12.77	91	983408	103.006	ug/l	99
79) tert-butylbenzene	12.99	119	1068469	95.707	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	1237364	98.425	ug/l	100
81) sec-Butylbenzene	13.17	105	1413819	99.580	ug/l	100
82) p-Isopropyltoluene	13.29	119	1307937	100.560	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	679709	106.839	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	664342	110.036	ug/l	100
85) n-Butylbenzene	13.61	91	1045896	104.658	ug/l	100
86) Hexachloroethane	13.87	117	214051	87.847	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	674254	105.244	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	78972	92.746	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	391534	115.530	ug/l	99
90) Hexachlorobutadiene	15.01	225	232969	91.889	ug/l	100
91) Naphthalene	15.13	128	1043911	113.106	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	400799	112.921	ug/l	99

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

