

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\
 Data File : VN052742.D
 Acq On : 10 Dec 2018 9:50
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 12:45:34 PM

Quant Time: Dec 11 00:52:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	184872	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1080205	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	960672	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	366255	29.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.93%
60) 4-Bromofluorobenzene	12.40	95	443245	30.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.60%
63) Toluene-d8	10.09	98	1295340	29.08	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	198184	18.823	ug/l 99
3) Chloromethane	2.06	50	252421	18.077	ug/l 97
4) Vinyl Chloride	2.19	62	263012	18.662	ug/l 98
5) Bromomethane	2.57	94	142531	17.737	ug/l 99
6) Chloroethane	2.71	64	161038	19.214	ug/l 97
7) Trichlorofluoromethane	3.02	101	349651	20.102	ug/l 99
8) Diethyl Ether	3.41	74	132439	20.621	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	224515	20.362	ug/l 96
10) 1,1-Dichloroethene	3.74	96	206713	19.939	ug/l 99
11) Methyl Iodide	3.96	142	207876	14.442	ug/l 99
12) Methyl Acetate	4.32	43	188577	21.408	ug/l 100
13) Acrolein	3.61	56	22384	21.633	ug/l 96
14) Acrylonitrile	4.99	53	385368	102.677	ug/l 99
15) Acetone	3.82	58	92854	95.529	ug/l 100
16) Carbon Disulfide	4.06	76	612672	18.666	ug/l 100
17) Allyl chloride	4.33	41	333067	18.422	ug/l 97
18) Methylene Chloride	4.55	84	238623	19.879	ug/l 96
19) trans-1,2-Dichloroethene	5.05	96	222767	19.967	ug/l 95
20) Diisopropyl ether	5.95	45	756448	19.909	ug/l 97
21) 1,1-Dichloroethane	5.85	63	430144	19.863	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	258964	20.253	ug/l 100
23) tert-Butyl Alcohol	4.77	59	54837	98.217	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	584517	21.492	ug/l 98
25) Chloroform	7.37	83	422767	20.236	ug/l 99
26) Cyclohexane	7.65	56	395522	19.365	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	330037	20.007	ug/l 99
30) 2-Butanone	6.83	43	435348	98.628	ug/l 99
31) 2,2-Dichloropropane	6.82	77	329128	21.673	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	351234	20.463	ug/l 98
33) Carbon Tetrachloride	7.77	117	305484	20.341	ug/l 100
34) Benzene	8.04	78	979452	19.749	ug/l 98
35) Methacrylonitrile	7.17	41	118721	21.678	ug/l 97
36) 1,2-Dichloroethane	8.12	62	301603	20.068	ug/l 99
37) Trichloroethene	8.83	130	266342	21.178	ug/l 97
38) Methylcyclohexane	9.08	83	407355	19.949	ug/l 97
39) 1,2-Dichloropropane	9.12	63	260946	19.628	ug/l 97
40) Dibromomethane	9.21	93	149545	20.816	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	319671	20.140	ug/l	98
42) Vinyl Acetate	5.90	43	2241718	93.864	ug/l	98
43) Ethyl Acetate	6.93	43	192329	20.491	ug/l #	70
44) Isopropyl Acetate	8.16	43	351384	21.346	ug/l	96
45) 1,4-Dioxane	9.20	88	30333	336.835	ug/l	96
46) Methyl methacrylate	9.20	41	177486	20.766	ug/l	97
47) n-amyl Acetate	12.07	43	308242	22.584	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	318652	20.705	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	378376	20.179	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	213320	20.947	ug/l	99
51) Ethyl methacrylate	10.43	69	272552	21.310	ug/l	97
52) 1,3-Dichloropropane	10.71	76	367490	20.274	ug/l	100
53) Dibromochloromethane	10.90	129	235213	20.979	ug/l	97
54) 1,2-Dibromoethane	11.00	107	211121	21.216	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	825762	110.297	ug/l	98
56) Bromoform	12.13	173	158944	21.689	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	979662	105.188	ug/l	98
59) 2-Hexanone	10.75	43	712507	111.992	ug/l	99
61) Tetrachloroethene	10.63	164	286840	24.243	ug/l	98
62) Toluene	10.16	91	1059360	20.003	ug/l	99
64) Chlorobenzene	11.43	112	662547	20.497	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	237270	21.147	ug/l	98
66) Ethyl Benzene	11.51	91	1153237	20.205	ug/l	99
67) m/p-Xylenes	11.62	106	876372	41.213	ug/l	98
68) o-Xylene	11.95	106	425570	20.619	ug/l	99
69) Styrene	11.96	104	690484	20.727	ug/l	100
70) Isopropylbenzene	12.25	105	1147100	20.889	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	241460	20.213	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	227200m	22.156	ug/l	
73) Bromobenzene	12.53	156	282064	21.237	ug/l	97
74) n-propylbenzene	12.59	91	1320785	20.642	ug/l	99
75) 2-Chlorotoluene	12.67	91	760911	20.488	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	931643	21.004	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	68132	21.033	ug/l	97
78) 4-Chlorotoluene	12.77	91	778024	20.978	ug/l	99
79) tert-butylbenzene	12.99	119	826945	21.408	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	937040	21.113	ug/l	99
81) sec-Butylbenzene	13.17	105	1129118	20.986	ug/l	99
82) p-Isopropyltoluene	13.29	119	982556	21.446	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	508914	21.787	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	496372	21.994	ug/l	99
85) n-Butylbenzene	13.62	91	836607	21.259	ug/l	99
86) Hexachloroethane	13.88	117	156632	20.178	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	491641	22.117	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	38997	23.306	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	282918	25.833	ug/l	99
90) Hexachlorobutadiene	15.01	225	162536	22.624	ug/l	99
91) Naphthalene	15.13	128	590619	26.706	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	255699	25.335	ug/l	98

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

