

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052822.D
 Acq On : 12 Dec 2018 12:56
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 1:29:31 PM

Quant Time: Dec 13 04:02:23 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	7.20	128	148961	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	868845	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	762199	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	300602	29.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.73%
60) 4-Bromofluorobenzene	12.40	95	351244	30.14	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.47%
63) Toluene-d8	10.09	98	1034227	29.26	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	159508	18.801	ug/l 99
3) Chloromethane	2.06	50	208778	18.556	ug/l 98
4) Vinyl Chloride	2.19	62	215685	18.993	ug/l 96
5) Bromomethane	2.58	94	131144	20.254	ug/l 99
6) Chloroethane	2.71	64	131421	19.461	ug/l 98
7) Trichlorofluoromethane	3.03	101	283352	20.218	ug/l 98
8) Diethyl Ether	3.41	74	110164	21.288	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	178943	20.141	ug/l 97
10) 1,1-Dichloroethene	3.74	96	170078	20.360	ug/l 95
11) Methyl Iodide	3.96	142	223522	19.272	ug/l 100
12) Methyl Acetate	4.33	43	151344	21.323	ug/l 100
13) Acrolein	3.61	56	55555	66.635	ug/l 99
14) Acrylonitrile	4.99	53	324899	107.434	ug/l 98
15) Acetone	3.82	58	75944	96.968	ug/l 97
16) Carbon Disulfide	4.06	76	474354	17.936	ug/l 99
17) Allyl chloride	4.33	41	268003	18.397	ug/l 98
18) Methylene Chloride	4.55	84	199511	20.628	ug/l 96
19) trans-1,2-Dichloroethene	5.05	96	185119	20.592	ug/l 93
20) Diisopropyl ether	5.95	45	621465	20.300	ug/l 99
21) 1,1-Dichloroethane	5.85	63	353152	20.239	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	216495	21.013	ug/l 97
23) tert-Butyl Alcohol	4.78	59	55942	124.351	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	479220	21.868	ug/l 98
25) Chloroform	7.37	83	350250	20.807	ug/l 100
26) Cyclohexane	7.66	56	310549	18.870	ug/l # 97
29) 1,1-Dichloropropene	7.80	75	267121	20.133	ug/l 99
30) 2-Butanone	6.83	43	366686	103.282	ug/l 99
31) 2,2-Dichloropropane	6.83	77	256368	20.988	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	285930	20.711	ug/l 97
33) Carbon Tetrachloride	7.78	117	247792	20.513	ug/l 99
34) Benzene	8.04	78	809566	20.294	ug/l 99
35) Methacrylonitrile	7.18	41	85545	19.420	ug/l 98
36) 1,2-Dichloroethane	8.13	62	249030	20.601	ug/l 99
37) Trichloroethene	8.84	130	215950	21.348	ug/l 94
38) Methylcyclohexane	9.08	83	314476	19.147	ug/l 97
39) 1,2-Dichloropropane	9.12	63	217090	20.302	ug/l 97
40) Dibromomethane	9.21	93	124162	21.487	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	261310	20.468	ug/l	98
42) Vinyl Acetate	5.90	43	1876361	97.678	ug/l	98
43) Ethyl Acetate	6.93	43	167499	22.187	ug/l #	72
44) Isopropyl Acetate	8.17	43	306131	23.121	ug/l	94
45) 1,4-Dioxane	9.20	88	34340	474.096	ug/l	96
46) Methyl methacrylate	9.20	41	147808	21.501	ug/l	100
47) n-amyl Acetate	12.07	43	247797	22.572	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	257516	20.803	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	308870	20.480	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	178273	21.764	ug/l	99
51) Ethyl methacrylate	10.43	69	228559	22.217	ug/l	95
52) 1,3-Dichloropropane	10.71	76	308011	21.126	ug/l	100
53) Dibromochloromethane	10.90	129	192961	21.397	ug/l	98
54) 1,2-Dibromoethane	11.01	107	174180	21.762	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	642395	106.678	ug/l	99
56) Bromoform	12.13	173	128385	21.781	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	827944	112.046	ug/l	99
59) 2-Hexanone	10.75	43	556015	110.151	ug/l	98
61) Tetrachloroethene	10.63	164	226970	24.178	ug/l	95
62) Toluene	10.16	91	864740	20.580	ug/l	100
64) Chlorobenzene	11.43	112	539193	21.024	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	193771	21.767	ug/l	98
66) Ethyl Benzene	11.51	91	931560	20.571	ug/l	98
67) m/p-Xylenes	11.62	106	709307	42.042	ug/l	98
68) o-Xylene	11.95	106	344230	21.021	ug/l	100
69) Styrene	11.97	104	559504	21.168	ug/l	99
70) Isopropylbenzene	12.25	105	923012	21.185	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	202807	21.398	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	179366m	22.046	ug/l	
73) Bromobenzene	12.53	156	232070	22.023	ug/l	95
74) n-propylbenzene	12.59	91	1051692	20.717	ug/l	99
75) 2-Chlorotoluene	12.68	91	623143	21.148	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	748594	21.272	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	53861	20.957	ug/l	98
78) 4-Chlorotoluene	12.77	91	626492	21.291	ug/l	99
79) tert-butylbenzene	12.99	119	653908	21.336	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	750964	21.326	ug/l	100
81) sec-Butylbenzene	13.17	105	888112	20.805	ug/l	100
82) p-Isopropyltoluene	13.29	119	761006	20.936	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	404384	21.820	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	390517	21.809	ug/l	99
85) n-Butylbenzene	13.62	91	621647	19.910	ug/l	99
86) Hexachloroethane	13.88	117	124555	20.223	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	398968	22.622	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	31040	23.381	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	211642	24.357	ug/l	99
90) Hexachlorobutadiene	15.01	225	124218	21.793	ug/l	99
91) Naphthalene	15.13	128	450613	25.681	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	199077	24.861	ug/l	97

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

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