

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101219\
 Data File : VN058692.D
 Acq On : 11 Oct 2019 10:47
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/14/2019 4:59:34 PM

Quant Time: Oct 11 17:43:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	71153	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	402209	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	364126	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	187273	31.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.37%
60) 4-Bromofluorobenzene	12.40	95	190315	29.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.60%
63) Toluene-d8	10.08	98	520778	30.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	86981	22.562 ug/l	98
3) Chloromethane	2.04	50	109607	21.284 ug/l	100
4) Vinyl Chloride	2.17	62	112166	21.075 ug/l	100
5) Bromomethane	2.55	94	70960	21.594 ug/l	99
6) Chloroethane	2.69	64	70480	21.067 ug/l	95
7) Trichlorofluoromethane	3.00	101	142515	21.755 ug/l	99
8) Diethyl Ether	3.39	74	52036	20.827 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	83032	21.905 ug/l	98
10) 1,1-Dichloroethene	3.72	96	77674	20.864 ug/l	98
11) Methyl Iodide	3.93	142	108034	20.837 ug/l	98
12) Methyl Acetate	4.30	43	123336	20.707 ug/l	99
13) Acrolein	3.58	56	61384	93.271 ug/l	97
14) Acrylonitrile	4.96	53	249919	106.487 ug/l	99
15) Acetone	3.79	58	74647	107.150 ug/l	92
16) Carbon Disulfide	4.03	76	225480	20.765 ug/l	98
17) Allyl chloride	4.30	41	157114	21.203 ug/l	98
18) Methylene Chloride	4.53	84	94330	20.924 ug/l	99
19) trans-1,2-Dichloroethene	5.01	96	85585	21.117 ug/l	94
20) Diisopropyl ether	5.93	45	317813	21.051 ug/l	97
21) 1,1-Dichloroethane	5.83	63	180478	21.588 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	101047	20.911 ug/l	97
23) tert-Butyl Alcohol	4.75	59	97632	101.704 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	294757	21.223 ug/l	99
25) Chloroform	7.36	83	177301	21.265 ug/l	94
26) Cyclohexane	7.63	56	153886	20.972 ug/l	99
29) 1,1-Dichloropropene	7.78	75	131869	20.828 ug/l	99
30) 2-Butanone	6.81	43	364882	101.984 ug/l	100
31) 2,2-Dichloropropane	6.80	77	157682	21.130 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	155597	21.248 ug/l	100
33) Carbon Tetrachloride	7.76	117	134069	21.152 ug/l	98
34) Benzene	8.02	78	386466	20.734 ug/l	98
35) Methacrylonitrile	7.15	41	61613	19.494 ug/l	88
36) 1,2-Dichloroethane	8.11	62	153044	21.475 ug/l	100
37) Trichloroethene	8.82	130	97122	21.209 ug/l	98
38) Methylcyclohexane	9.07	83	148217	20.191 ug/l	98
39) 1,2-Dichloropropane	9.11	63	107114	21.028 ug/l	95
40) Dibromomethane	9.20	93	66553	20.696 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	136314	20.750	ug/l	98
42) Vinyl Acetate	5.87	43	1356871	108.286	ug/l	100
43) Ethyl Acetate	6.90	43	148839	21.195	ug/l	98
44) Isopropyl Acetate	8.15	43	232471	20.437	ug/l	97
45) 1,4-Dioxane	9.19	88	33678	385.575	ug/l	99
46) Methyl methacrylate	9.19	41	107381	20.563	ug/l	98
47) n-amyl Acetate	12.07	43	200242	19.858	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	154409	20.266	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	168638	21.078	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	97243	21.183	ug/l	98
51) Ethyl methacrylate	10.43	69	147103	20.040	ug/l	99
52) 1,3-Dichloropropane	10.71	76	168318	20.589	ug/l	98
53) Dibromochloromethane	10.90	129	102272	20.759	ug/l	98
54) 1,2-Dibromoethane	11.00	107	97539	20.499	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	375560	102.855	ug/l	100
56) Bromoform	12.13	173	68936	20.087	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	731253	110.085	ug/l	100
59) 2-Hexanone	10.75	43	547404	105.116	ug/l	100
61) Tetrachloroethene	10.63	164	84675	21.520	ug/l	98
62) Toluene	10.15	91	413048	21.088	ug/l	98
64) Chlorobenzene	11.43	112	250468	20.916	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	94445	21.034	ug/l	99
66) Ethyl Benzene	11.51	91	452437	20.861	ug/l	99
67) m/p-Xylenes	11.62	106	338310	41.753	ug/l	99
68) o-Xylene	11.95	106	162526	20.691	ug/l	99
69) Styrene	11.97	104	263018	20.268	ug/l	99
70) Isopropylbenzene	12.25	105	445575	21.010	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	149447	20.932	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	144596m	22.351	ug/l	
73) Bromobenzene	12.53	156	104367	20.261	ug/l	96
74) n-propylbenzene	12.59	91	527812	21.263	ug/l	100
75) 2-Chlorotoluene	12.68	91	315126	21.099	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	378902	20.860	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	47217	19.159	ug/l	98
78) 4-Chlorotoluene	12.78	91	319631	20.764	ug/l	99
79) tert-butylbenzene	13.00	119	322752	20.798	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	380057	21.057	ug/l	100
81) sec-Butylbenzene	13.18	105	433695	20.766	ug/l	99
82) p-Isopropyltoluene	13.29	119	391713	20.887	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	192765	20.680	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	186685	20.051	ug/l	98
85) n-Butylbenzene	13.62	91	352121	20.508	ug/l	99
86) Hexachloroethane	13.88	117	67303	19.720	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	188224	20.455	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.28	75	33197	20.890	ug/l	99
89) 1,2,4-Trichlorobenzene	14.92	180	116004	19.965	ug/l	99
90) Hexachlorobutadiene	15.01	225	61210	20.401	ug/l	98
91) Naphthalene	15.13	128	346153	20.178	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	113846	20.128	ug/l	99

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

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