

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092019\
 Data File : VN058234.D
 Acq On : 20 Sep 2019 8:47
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/23/2019 3:29:31 PM

Quant Time: Sep 23 03:35:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 09 12:14:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	75523	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	439939	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	397348	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	201705	30.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.63%
60) 4-Bromofluorobenzene	12.40	95	204734	30.11	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.37%
63) Toluene-d8	10.08	98	563920	29.57	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	89033	19.512	ug/l 99
3) Chloromethane	2.04	50	96396	16.942	ug/l 99
4) Vinyl Chloride	2.17	62	98436	16.910	ug/l 99
5) Bromomethane	2.55	94	48027	13.220	ug/l 95
6) Chloroethane	2.69	64	61333	16.953	ug/l 99
7) Trichlorofluoromethane	3.00	101	122662	18.239	ug/l 96
8) Diethyl Ether	3.39	74	54628	20.135	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	87891	20.929	ug/l 99
10) 1,1-Dichloroethene	3.71	96	78793	19.731	ug/l 89
11) Methyl Iodide	3.93	142	76827	14.379	ug/l 99
12) Methyl Acetate	4.30	43	105447	19.241	ug/l 93
13) Acrolein	3.58	56	32351	108.799	ug/l 97
14) Acrylonitrile	4.95	53	214918	96.199	ug/l # 91
15) Acetone	3.79	58	71133	112.151	ug/l 98
16) Carbon Disulfide	4.03	76	163422	17.574	ug/l 100
17) Allyl chloride	4.30	41	144562	19.755	ug/l 91
18) Methylene Chloride	4.53	84	98656	19.605	ug/l 95
19) trans-1,2-Dichloroethene	5.01	96	85703	19.256	ug/l 98
20) Diisopropyl ether	5.92	45	327854	19.165	ug/l 99
21) 1,1-Dichloroethane	5.82	63	186752	19.798	ug/l 100
22) cis-1,2-Dichloroethene	6.81	96	109254	20.034	ug/l 98
23) tert-Butyl Alcohol	4.75	59	64142	87.945	ug/l # 100
24) Methyl tert-Butyl Ether	5.01	73	294967	19.271	ug/l # 100
25) Chloroform	7.35	83	191794	19.971	ug/l 100
26) Cyclohexane	7.63	56	150819	19.029	ug/l # 97
29) 1,1-Dichloropropene	7.78	75	135973	19.647	ug/l 99
30) 2-Butanone	6.81	43	327460	104.936	ug/l # 94
31) 2,2-Dichloropropane	6.80	77	146456	20.043	ug/l 97
32) 1,1,1-Trichloroethane	7.55	97	156670	20.134	ug/l 100
33) Carbon Tetrachloride	7.75	117	123055	19.385	ug/l 97
34) Benzene	8.02	78	410602	20.023	ug/l 98
35) Methacrylonitrile	7.15	41	47713	16.485	ug/l 98
36) 1,2-Dichloroethane	8.11	62	158630	19.934	ug/l 100
37) Trichloroethene	8.82	130	99529	19.983	ug/l 99
38) Methylcyclohexane	9.07	83	156901	19.910	ug/l 99
39) 1,2-Dichloropropane	9.11	63	115530	20.061	ug/l 98
40) Dibromomethane	9.20	93	69261	19.773	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	135577	19.199	ug/l	97
42) Vinyl Acetate	5.87	43	1304572	104.017	ug/l	100
43) Ethyl Acetate	6.90	43	122729	19.277	ug/l #	84
44) Isopropyl Acetate	8.15	43	218824	19.713	ug/l #	92
45) 1,4-Dioxane	9.19	88	30567	350.424	ug/l	97
46) Methyl methacrylate	9.19	41	101083	18.641	ug/l	98
47) n-amyl Acetate	12.07	43	184232	18.067	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	141886	18.873	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	162406	19.254	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	101737	20.024	ug/l	98
51) Ethyl methacrylate	10.43	69	147897	18.774	ug/l	97
52) 1,3-Dichloropropane	10.70	76	175811	19.787	ug/l	100
53) Dibromochloromethane	10.90	129	94529	18.839	ug/l	97
54) 1,2-Dibromoethane	11.00	107	98073	19.401	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	335339	89.582	ug/l	99
56) Bromoform	12.13	173	55543	17.868	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	635610	103.150	ug/l	99
59) 2-Hexanone	10.75	43	484030	104.675	ug/l	100
61) Tetrachloroethene	10.63	164	80555	19.940	ug/l	98
62) Toluene	10.15	91	445844	20.264	ug/l	99
64) Chlorobenzene	11.43	112	269975	19.781	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	93667	19.766	ug/l	99
66) Ethyl Benzene	11.51	91	494741	20.604	ug/l	99
67) m/p-Xylenes	11.62	106	359741	39.252	ug/l	97
68) o-Xylene	11.95	106	172455	19.207	ug/l	98
69) Styrene	11.97	104	298859	19.523	ug/l	99
70) Isopropylbenzene	12.25	105	489779	20.634	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	145446	19.606	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	128675m	19.542	ug/l	
73) Bromobenzene	12.53	156	112612	19.816	ug/l	99
74) n-propylbenzene	12.59	91	576946	21.274	ug/l	99
75) 2-Chlorotoluene	12.68	91	341345	20.208	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	405075	20.041	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	33869	17.339	ug/l	98
78) 4-Chlorotoluene	12.78	91	350707	20.354	ug/l	98
79) tert-butylbenzene	13.00	119	347109	19.684	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	410205	20.368	ug/l	99
81) sec-Butylbenzene	13.18	105	475851	20.339	ug/l	100
82) p-Isopropyltoluene	13.29	119	424347	20.253	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	209594	19.842	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	207038	19.908	ug/l	98
85) n-Butylbenzene	13.62	91	379400	19.429	ug/l	97
86) Hexachloroethane	13.88	117	59668	17.879	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	206206	20.111	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.28	75	24469	18.733	ug/l	97
89) 1,2,4-Trichlorobenzene	14.92	180	117971	18.835	ug/l	98
90) Hexachlorobutadiene	15.01	225	61329	21.320	ug/l	99
91) Naphthalene	15.13	128	299982	17.406	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	110222	18.452	ug/l	99

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

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