

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090919\
 Data File : VN057792.D
 Acq On : 9 Sep 2019 11:02
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN090919

Manual Integrations
 APPROVED

MMDadoda
 9/13/2019 11:04:54 AM

Quant Time: Sep 09 12:18:53 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	77265	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	454990	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	403084	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	200549	29.34	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.80%
60) 4-Bromofluorobenzene	12.40	95	201445	29.21	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.37%
63) Toluene-d8	10.08	98	574189	29.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.93%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.84	85	98358	21.070	ug/l 98
3) Chloromethane	2.03	50	118220	20.310	ug/l 94
4) Vinyl Chloride	2.16	62	119327	20.036	ug/l 100
5) Bromomethane	2.54	94	75382	20.282	ug/l 95
6) Chloroethane	2.68	64	69491	18.775	ug/l 97
7) Trichlorofluoromethane	2.99	101	134597	19.562	ug/l 99
8) Diethyl Ether	3.39	74	58116	20.937	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	88406	20.577	ug/l 98
10) 1,1-Dichloroethene	3.71	96	84484	20.679	ug/l 93
11) Methyl Iodide	3.93	142	108953	19.932	ug/l 96
12) Methyl Acetate	4.31	43	110779	19.758	ug/l 96
13) Acrolein	3.59	56	28883	94.946	ug/l 95
14) Acrylonitrile	4.96	53	228040	99.771	ug/l # 91
15) Acetone	3.80	58	66522	102.517	ug/l 99
16) Carbon Disulfide	4.03	76	194441	20.438	ug/l 99
17) Allyl chloride	4.30	41	152296	20.343	ug/l 94
18) Methylene Chloride	4.53	84	104151	20.230	ug/l 98
19) trans-1,2-Dichloroethene	5.01	96	90275	19.826	ug/l 99
20) Diisopropyl ether	5.93	45	341780	19.528	ug/l 98
21) 1,1-Dichloroethane	5.83	63	189892	19.677	ug/l 98
22) cis-1,2-Dichloroethene	6.81	96	113808	20.399	ug/l 95
23) tert-Butyl Alcohol	4.77	59	75431	101.092	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	309115	19.740	ug/l # 100
25) Chloroform	7.36	83	193521	19.697	ug/l 98
26) Cyclohexane	7.64	56	154312	19.031	ug/l # 99
29) 1,1-Dichloropropene	7.78	75	139859	19.540	ug/l 100
30) 2-Butanone	6.82	43	320945	99.446	ug/l 99
31) 2,2-Dichloropropane	6.81	77	149638	19.802	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	154514	19.200	ug/l 97
33) Carbon Tetrachloride	7.76	117	125829	19.167	ug/l 94
34) Benzene	8.03	78	413053	19.476	ug/l 99
35) Methacrylonitrile	7.15	41	51183	17.099	ug/l 94
36) 1,2-Dichloroethane	8.11	62	159191	19.343	ug/l 100
37) Trichloroethene	8.83	130	102359	19.871	ug/l 97
38) Methylcyclohexane	9.07	83	154117	18.909	ug/l 99
39) 1,2-Dichloropropane	9.11	63	113543	19.063	ug/l 98
40) Dibromomethane	9.20	93	71541	19.749	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	137867	18.877	ug/l	97
42) Vinyl Acetate	5.87	43	1379653	106.364	ug/l	99
43) Ethyl Acetate	6.91	43	128805	19.562	ug/l #	84
44) Isopropyl Acetate	8.15	43	220280	19.187	ug/l #	92
45) 1,4-Dioxane	9.19	88	34682	384.446	ug/l	98
46) Methyl methacrylate	9.19	41	106372	18.968	ug/l	97
47) n-amyl Acetate	12.07	43	193339	18.333	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	144351	18.566	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	164342	18.839	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	99696	18.973	ug/l	98
51) Ethyl methacrylate	10.43	69	154706	18.988	ug/l	98
52) 1,3-Dichloropropane	10.71	76	177812	19.350	ug/l	99
53) Dibromochloromethane	10.90	129	96119	18.522	ug/l	99
54) 1,2-Dibromoethane	11.00	107	98927	18.922	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	377612	97.537	ug/l	99
56) Bromoform	12.13	173	57372	17.846	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	674695	107.935	ug/l	99
59) 2-Hexanone	10.75	43	484991	103.391	ug/l	100
61) Tetrachloroethene	10.63	164	81181	19.809	ug/l	98
62) Toluene	10.15	91	449349	20.133	ug/l	99
64) Chlorobenzene	11.43	112	272297	19.667	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	92977	19.341	ug/l	99
66) Ethyl Benzene	11.51	91	497503	20.424	ug/l	100
67) m/p-Xylenes	11.62	106	361121	38.842	ug/l	99
68) o-Xylene	11.95	106	176134	19.338	ug/l	98
69) Styrene	11.96	104	303805	19.563	ug/l	99
70) Isopropylbenzene	12.25	105	489518	20.329	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	147251	19.567	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	131419m	19.675	ug/l	
73) Bromobenzene	12.53	156	112240	19.470	ug/l	97
74) n-propylbenzene	12.59	91	565882	20.569	ug/l	99
75) 2-Chlorotoluene	12.68	91	335573	19.583	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	409827	19.987	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	34559	17.440	ug/l	94
78) 4-Chlorotoluene	12.78	91	344358	19.701	ug/l	98
79) tert-butylbenzene	13.00	119	354211	19.801	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	409737	20.055	ug/l	100
81) sec-Butylbenzene	13.17	105	479454	20.201	ug/l	100
82) p-Isopropyltoluene	13.29	119	422511	19.878	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	209298	19.532	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	207117	19.633	ug/l	98
85) n-Butylbenzene	13.62	91	393558	19.868	ug/l	99
86) Hexachloroethane	13.88	117	59563	17.593	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	202420	19.461	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	25500	19.245	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	136188	21.434	ug/l	97
90) Hexachlorobutadiene	15.01	225	60538	20.746	ug/l	97
91) Naphthalene	15.13	128	412292	23.583	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	135321	22.331	ug/l	99

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

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