

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055130.D
 Acq On : 19 Apr 2019 9:52
 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
 4/22/2019 10:06:17 AM

Quant Time: Apr 19 10:46:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	75463	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	406527	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	347408	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	170422	29.63	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.77%
60) 4-Bromofluorobenzene	12.40	95	156625	28.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.53%
63) Toluene-d8	10.09	98	504398	30.54	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	85470	19.258	ug/l 98
3) Chloromethane	2.06	50	110195	18.379	ug/l 93
4) Vinyl Chloride	2.19	62	92929	17.924	ug/l 100
5) Bromomethane	2.57	94	52067	17.362	ug/l 91
6) Chloroethane	2.71	64	51767	17.828	ug/l 100
7) Trichlorofluoromethane	3.02	101	138265	20.869	ug/l 98
8) Diethyl Ether	3.41	74	53915	25.345	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	89482	24.708	ug/l 96
10) 1,1-Dichloroethene	3.74	96	81574	24.362	ug/l 89
11) Methyl Iodide	3.95	142	114900	22.675	ug/l 96
12) Methyl Acetate	4.33	43	105511	25.619	ug/l 99
13) Acrolein	3.61	56	33852	93.785	ug/l 98
14) Acrylonitrile	4.99	53	197787	117.218	ug/l 97
15) Acetone	3.82	58	57490	137.688	ug/l 91
16) Carbon Disulfide	4.05	76	216432	19.270	ug/l 100
17) Allyl chloride	4.33	41	168183	20.396	ug/l 99
18) Methylene Chloride	4.55	84	96319	19.460	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	86220	19.781	ug/l 94
20) Diisopropyl ether	5.96	45	340499	20.384	ug/l 100
21) 1,1-Dichloroethane	5.85	63	178914	20.052	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	98827	19.506	ug/l 99
23) tert-Butyl Alcohol	4.79	59	36156	134.384	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	249222	22.166	ug/l # 64
25) Chloroform	7.37	83	170629	19.965	ug/l 96
26) Cyclohexane	7.65	56	160445	19.381	ug/l # 99
29) 1,1-Dichloropropene	7.80	75	127806	20.187	ug/l 97
30) 2-Butanone	6.84	43	263446	125.356	ug/l 100
31) 2,2-Dichloropropane	6.83	77	125605	21.555	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	138608	20.713	ug/l 98
33) Carbon Tetrachloride	7.77	117	115332	19.906	ug/l 98
34) Benzene	8.04	78	375714	20.025	ug/l 98
35) Methacrylonitrile	7.19	41	60213m	24.309	ug/l
36) 1,2-Dichloroethane	8.12	62	133480	20.816	ug/l 100
37) Trichloroethene	8.84	130	95683	20.005	ug/l 94
38) Methylcyclohexane	9.08	83	142282	19.379	ug/l 98
39) 1,2-Dichloropropane	9.12	63	108661	20.974	ug/l 95
40) Dibromomethane	9.21	93	60155	20.543	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	122340	20.244	ug/l	98
42) Vinyl Acetate	5.90	43	1169107	110.037	ug/l	100
43) Ethyl Acetate	6.93	43	107666	25.147	ug/l	100
44) Isopropyl Acetate	8.17	43	178488	24.600	ug/l	98
45) 1,4-Dioxane	9.20	88	19193	477.474	ug/l	97
46) Methyl methacrylate	9.20	41	86548	23.059	ug/l	96
47) n-amyl Acetate	12.07	43	122791	22.977	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	115281	20.773	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	137481	20.067	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	85713	21.551	ug/l	96
51) Ethyl methacrylate	10.43	69	103821	21.899	ug/l	99
52) 1,3-Dichloropropane	10.71	76	149341	21.429	ug/l	100
53) Dibromochloromethane	10.90	129	86249	21.053	ug/l	100
54) 1,2-Dibromoethane	11.01	107	78984	21.154	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	210125	106.014	ug/l	99
56) Bromoform	12.13	173	53067	20.615	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	518158	129.334	ug/l	99
59) 2-Hexanone	10.75	43	331852	130.387	ug/l	98
61) Tetrachloroethene	10.63	164	90683	20.058	ug/l	97
62) Toluene	10.16	91	391654	20.460	ug/l	99
64) Chlorobenzene	11.43	112	231359	20.020	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	86519	21.051	ug/l	100
66) Ethyl Benzene	11.51	91	415613	20.255	ug/l	98
67) m/p-Xylenes	11.62	106	311060	40.783	ug/l	98
68) o-Xylene	11.95	106	153188	20.323	ug/l	98
69) Styrene	11.96	104	228493	19.522	ug/l	98
70) Isopropylbenzene	12.25	105	409893	20.339	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	109097	23.669	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	80547m	21.160	ug/l	
73) Bromobenzene	12.53	156	94565	19.853	ug/l	98
74) n-propylbenzene	12.59	91	455193	20.176	ug/l	99
75) 2-Chlorotoluene	12.67	91	273574	20.105	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	328361	20.154	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	21605	22.517	ug/l	91
78) 4-Chlorotoluene	12.77	91	257519	19.863	ug/l	100
79) tert-butylbenzene	12.99	119	285227	20.232	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	319124	19.938	ug/l	99
81) sec-Butylbenzene	13.17	105	376160	19.969	ug/l	99
82) p-Isopropyltoluene	13.29	119	310946	19.559	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	155333	19.492	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	145296	19.187	ug/l	98
85) n-Butylbenzene	13.61	91	235426	18.591	ug/l	100
86) Hexachloroethane	13.87	117	50311	19.769	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	155535	19.930	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14468	23.617	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	58543	16.779	ug/l	97
90) Hexachlorobutadiene	15.01	225	54146	21.285	ug/l	98
91) Naphthalene	15.13	128	130549	17.869	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	62647	17.953	ug/l	98

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

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