

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050719.D
 Acq On : 17 Aug 2018 10:01
 Operator : MD\SY
 Sample : VN0817WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0817WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:52:46 AM

Quant Time: Aug 17 15:30:01 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	117945	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	628212	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	551635	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	235849	29.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.07%
60) 4-Bromofluorobenzene	12.40	95	248370	29.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.70%
63) Toluene-d8	10.09	98	809791	30.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.43%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	126086	15.51	ug/l	96
3) Chloromethane	2.06	50	163051	19.46	ug/l	99
4) Vinyl Chloride	2.18	62	168975	18.94	ug/l	99
5) Bromomethane	2.57	94	98193	18.05	ug/l	97
6) Chloroethane	2.70	64	101625	19.26	ug/l	98
7) Trichlorofluoromethane	3.01	101	221933	19.04	ug/l	100
8) Diethyl Ether	3.41	74	74599	19.08	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	137349	19.37	ug/l	100
10) 1,1-Dichloroethene	3.74	96	124926	19.87	ug/l	91
11) Methyl Iodide	3.95	142	80766	8.73	ug/l	99
12) Methyl Acetate	4.33	43	116399	16.16	ug/l	96
13) Acrolein	3.61	56	37984	85.32	ug/l	98
14) Acrylonitrile	4.99	53	215413	89.62	ug/l	100
15) Acetone	3.82	58	63590	99.54	ug/l	91
16) Carbon Disulfide	4.05	76	371539	19.31	ug/l	99
17) Allyl chloride	4.32	41	189303	19.06	ug/l	96
18) Methylene Chloride	4.55	84	146358	20.17	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	132896	19.74	ug/l	97
20) Diisopropyl ether	5.96	45	419815	20.62	ug/l	99
21) 1,1-Dichloroethane	5.85	63	257903	20.14	ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	148963	19.95	ug/l	99
23) tert-Butyl Alcohol	4.79	59	38238	71.19	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	321451	18.74	ug/l	100
25) Chloroform	7.37	83	261384	20.17	ug/l	100
26) Cyclohexane	7.65	56	207817	20.42	ug/l	# 96
29) 1,1-Dichloropropene	7.79	75	192322	19.73	ug/l	99
30) 2-Butanone	6.84	43	297832	97.35	ug/l	99
31) 2,2-Dichloropropane	6.83	77	200184	18.58	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	219019	19.09	ug/l	100
33) Carbon Tetrachloride	7.78	117	195206	19.08	ug/l	99
34) Benzene	8.04	78	591443	19.98	ug/l	99
35) Methacrylonitrile	7.18	41	52908	15.19	ug/l	97
36) 1,2-Dichloroethane	8.13	62	180110	18.53	ug/l	# 88
37) Trichloroethene	8.84	130	150462	19.38	ug/l	98
38) Methylcyclohexane	9.08	83	189719	18.46	ug/l	99
39) 1,2-Dichloropropane	9.12	63	157292	20.17	ug/l	99
40) Dibromomethane	9.21	93	90838	18.84	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	194859	19.16	ug/l	96
42) Vinyl Acetate	5.90	43	1328469	92.28	ug/l	100
43) Ethyl Acetate	6.93	43	111091	17.39	ug/l	98
44) Isopropyl Acetate	8.17	43	193943	16.39	ug/l	97
45) 1,4-Dioxane	9.20	88	26121	335.43	ug/l	97
46) Methyl methacrylate	9.20	41	90310	15.74	ug/l	96
47) n-amyl Acetate	12.07	43	147151	15.98	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	178488	18.42	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	220192	19.33	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	130303	18.83	ug/l	97
51) Ethyl methacrylate	10.43	69	145259	17.30	ug/l	97
52) 1,3-Dichloropropane	10.71	76	216017	19.01	ug/l	100
53) Dibromochloromethane	10.90	129	143938	18.33	ug/l	99
54) 1,2-Dibromoethane	11.01	107	123061	18.16	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	349646	91.99	ug/l	99
56) Bromoform	12.13	173	95597	17.24	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	682630	106.35	ug/l	99
59) 2-Hexanone	10.75	43	426465	97.39	ug/l	100
61) Tetrachloroethene	10.63	164	140696	18.83	ug/l	99
62) Toluene	10.16	91	634564	20.16	ug/l	99
64) Chlorobenzene	11.43	112	377998	19.81	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	146373	19.66	ug/l	100
66) Ethyl Benzene	11.51	91	619066	19.25	ug/l	99
67) m/p-Xylenes	11.62	106	491162	39.68	ug/l	99
68) o-Xylene	11.95	106	230446	19.57	ug/l	99
69) Styrene	11.97	104	368306	19.51	ug/l	99
70) Isopropylbenzene	12.25	105	613141	19.55	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	157238	18.26	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	139078m	18.91	ug/l	
73) Bromobenzene	12.53	156	158862	19.01	ug/l	99
74) n-propylbenzene	12.59	91	691995	18.94	ug/l	100
75) 2-Chlorotoluene	12.68	91	427466	19.48	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	508735	19.75	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	34709	14.43	ug/l	93
78) 4-Chlorotoluene	12.77	91	417125	19.19	ug/l	99
79) tert-butylbenzene	12.99	119	418185	18.99	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	507462	19.44	ug/l	98
81) sec-Butylbenzene	13.17	105	566844	18.95	ug/l	100
82) p-Isopropyltoluene	13.29	119	477207	18.69	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	268016	18.42	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	249239	18.13	ug/l	99
85) n-Butylbenzene	13.62	91	349943	16.89	ug/l	99
86) Hexachloroethane	13.88	117	90926	17.82	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	263325	18.52	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20534	15.31	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	102872	15.15	ug/l	97
90) Hexachlorobutadiene	15.01	225	80468	17.97	ug/l	98
91) Naphthalene	15.13	128	187544	16.45	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	103521	14.99	ug/l	98

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

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