

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051012.D
 Acq On : 4 Sep 2018 12:13
 Operator : MD\SY
 Sample : VN0904WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0904WBSD02

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:22 PM

Quant Time: Sep 04 13:24:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	116506	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	628194	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	547424	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	224952	30.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.87%
60) 4-Bromofluorobenzene	12.40	95	238659	29.32	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.73%
63) Toluene-d8	10.09	98	787223	30.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	136246	18.83	ug/l	100
3) Chloromethane	2.06	50	159402	18.66	ug/l	100
4) Vinyl Chloride	2.18	62	160009	18.95	ug/l	98
5) Bromomethane	2.57	94	92072	17.89	ug/l	100
6) Chloroethane	2.70	64	95314	19.14	ug/l	100
7) Trichlorofluoromethane	3.01	101	219292	19.60	ug/l	98
8) Diethyl Ether	3.41	74	73987	18.75	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	135289	19.52	ug/l	99
10) 1,1-Dichloroethene	3.74	96	119555	18.99	ug/l	99
11) Methyl Iodide	3.95	142	88150	15.01	ug/l	98
12) Methyl Acetate	4.33	43	148240	20.36	ug/l	98
13) Acrolein	3.61	56	7782	48.28	ug/l	94
14) Acrylonitrile	5.00	53	220637	89.64	ug/l	97
15) Acetone	3.82	58	52520	83.39	ug/l	97
16) Carbon Disulfide	4.05	76	344749	18.21	ug/l	99
17) Allyl chloride	4.32	41	183850	18.56	ug/l	99
18) Methylene Chloride	4.55	84	142308	19.26	ug/l	96
19) trans-1,2-Dichloroethene	5.04	96	125532	18.72	ug/l	98
20) Diisopropyl ether	5.96	45	405251	19.71	ug/l	98
21) 1,1-Dichloroethane	5.85	63	245104	19.44	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	145552	19.21	ug/l	99
23) tert-Butyl Alcohol	4.80	59	43712	83.51	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	324530	18.85	ug/l	99
25) Chloroform	7.37	83	249394	19.82	ug/l	100
26) Cyclohexane	7.66	56	188916	18.09	ug/l	# 100
29) 1,1-Dichloropropene	7.80	75	182699	19.43	ug/l	99
30) 2-Butanone	6.84	43	235731	81.48	ug/l	100
31) 2,2-Dichloropropane	6.83	77	185048	20.22	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	209155	19.61	ug/l	99
33) Carbon Tetrachloride	7.78	117	187502	19.52	ug/l	98
34) Benzene	8.04	78	559702	19.24	ug/l	99
35) Methacrylonitrile	7.18	41	57654	18.19	ug/l	99
36) 1,2-Dichloroethane	8.13	62	173622	19.73	ug/l	100
37) Trichloroethene	8.84	130	145503	19.13	ug/l	99
38) Methylcyclohexane	9.08	83	179766	17.80	ug/l	99
39) 1,2-Dichloropropane	9.12	63	150194	19.77	ug/l	97
40) Dibromomethane	9.21	93	88079	19.24	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	187798	19.46	ug/l	99
42) Vinyl Acetate	5.90	43	1176374	88.28	ug/l	100
43) Ethyl Acetate	6.93	43	103742	17.50	ug/l	97
44) Isopropyl Acetate	8.17	43	185376	17.73	ug/l	98
45) 1,4-Dioxane	9.20	88	26996	347.49	ug/l	98
46) Methyl methacrylate	9.20	41	90452	17.27	ug/l	95
47) n-amyl Acetate	12.07	43	131748	15.67	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	171985	18.18	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	202449	18.63	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	127590	19.18	ug/l	97
51) Ethyl methacrylate	10.43	69	140445	17.26	ug/l	97
52) 1,3-Dichloropropane	10.71	76	211156	19.17	ug/l	100
53) Dibromochloromethane	10.90	129	143682	19.00	ug/l	98
54) 1,2-Dibromoethane	11.01	107	120344	18.30	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	282506	83.44	ug/l	99
56) Bromoform	12.13	173	96434	17.93	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	543741	86.81	ug/l	99
59) 2-Hexanone	10.75	43	335302	81.90	ug/l	99
61) Tetrachloroethene	10.63	164	133322	19.54	ug/l	96
62) Toluene	10.16	91	603074	19.75	ug/l	100
64) Chlorobenzene	11.44	112	362243	19.14	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	140969	19.73	ug/l	99
66) Ethyl Benzene	11.51	91	584783	18.49	ug/l	100
67) m/p-Xylenes	11.62	106	468687	38.51	ug/l	99
68) o-Xylene	11.95	106	222335	19.12	ug/l	100
69) Styrene	11.96	104	343607	18.58	ug/l	100
70) Isopropylbenzene	12.25	105	593173	19.19	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	155199	18.55	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	115851m	16.05	ug/l	
73) Bromobenzene	12.53	156	152112	18.71	ug/l	99
74) n-propylbenzene	12.59	91	652998	18.69	ug/l	100
75) 2-Chlorotoluene	12.67	91	404543	19.06	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	490412	19.42	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	33051	16.07	ug/l	97
78) 4-Chlorotoluene	12.77	91	387832	18.56	ug/l	99
79) tert-butylbenzene	12.99	119	411789	18.78	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	481979	19.14	ug/l	99
81) sec-Butylbenzene	13.17	105	537601	18.73	ug/l	99
82) p-Isopropyltoluene	13.29	119	458168	18.50	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	246776	17.95	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	231019	17.74	ug/l	99
85) n-Butylbenzene	13.62	91	317501	16.80	ug/l	99
86) Hexachloroethane	13.87	117	89306	18.78	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	249914	18.47	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20850	17.81	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	86804	14.41	ug/l	100
90) Hexachlorobutadiene	15.01	225	80038	19.56	ug/l	99
91) Naphthalene	15.13	128	162510	17.21	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	94086	15.57	ug/l	99

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

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