

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090618\
 Data File : VN051030.D
 Acq On : 6 Sep 2018 12:59
 Operator : MD\SY
 Sample : VN0906WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0906WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 11:23:21 AM

Quant Time: Sep 07 01:37:40 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	129526	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	649750	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	583938	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	247197	29.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.70%
60) 4-Bromofluorobenzene	12.40	95	260348	29.98	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.93%
63) Toluene-d8	10.09	98	821690	30.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.57%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	129240	16.07	ug/l	100
3) Chloromethane	2.06	50	157462	16.58	ug/l	98
4) Vinyl Chloride	2.18	62	153930	16.40	ug/l	100
5) Bromomethane	2.55	94	103931	18.17	ug/l	99
6) Chloroethane	2.70	64	92754	16.76	ug/l	98
7) Trichlorofluoromethane	3.01	101	213908	17.19	ug/l	99
8) Diethyl Ether	3.41	74	81298	18.53	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	135060	17.53	ug/l	97
10) 1,1-Dichloroethene	3.73	96	115319	16.48	ug/l	98
11) Methyl Iodide	3.95	142	94288	14.44	ug/l	99
12) Methyl Acetate	4.33	43	196546	24.29	ug/l	100
13) Acrolein	3.61	56	45711	255.08	ug/l	98
14) Acrylonitrile	4.99	53	278960	101.95	ug/l	99
15) Acetone	3.82	58	74009	105.70	ug/l	87
16) Carbon Disulfide	4.05	76	323935	15.39	ug/l	100
17) Allyl chloride	4.32	41	186763	16.96	ug/l	99
18) Methylene Chloride	4.55	84	151623	18.46	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	127990	17.16	ug/l	96
20) Diisopropyl ether	5.96	45	431796	18.89	ug/l	99
21) 1,1-Dichloroethane	5.85	63	248961	17.76	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	148444	17.62	ug/l	98
23) tert-Butyl Alcohol	4.80	59	65218	112.07	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	374691	19.57	ug/l	100
25) Chloroform	7.37	83	259342	18.54	ug/l	99
26) Cyclohexane	7.65	56	185483	15.97	ug/l #	98
29) 1,1-Dichloropropene	7.79	75	174996	17.99	ug/l	99
30) 2-Butanone	6.84	43	320561	107.12	ug/l	99
31) 2,2-Dichloropropane	6.83	77	190153	20.09	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	211032	19.13	ug/l	98
33) Carbon Tetrachloride	7.78	117	182444	18.37	ug/l	95
34) Benzene	8.04	78	577469	19.19	ug/l	99
35) Methacrylonitrile	7.18	41	60718	18.52	ug/l	97
36) 1,2-Dichloroethane	8.13	62	183712	20.19	ug/l	99
37) Trichloroethene	8.83	130	146509	18.63	ug/l	98
38) Methylcyclohexane	9.08	83	178280	17.06	ug/l	99
39) 1,2-Dichloropropane	9.12	63	158126	20.12	ug/l	98
40) Dibromomethane	9.21	93	97129	20.52	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	200104	20.05	ug/l	99
42) Vinyl Acetate	5.90	43	1318428	95.65	ug/l	100
43) Ethyl Acetate	6.94	43	133120	21.72	ug/l	96
44) Isopropyl Acetate	8.17	43	231440	21.40	ug/l	97
45) 1,4-Dioxane	9.20	88	36642	456.00	ug/l	98
46) Methyl methacrylate	9.20	41	113685	20.98	ug/l	96
47) n-amyl Acetate	12.07	43	170320	19.58	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	192937	19.72	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	221821	19.74	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	144188	20.96	ug/l	98
51) Ethyl methacrylate	10.43	69	170078	20.21	ug/l	100
52) 1,3-Dichloropropane	10.71	76	233975	20.53	ug/l	99
53) Dibromochloromethane	10.90	129	160159	20.48	ug/l	98
54) 1,2-Dibromoethane	11.01	107	138948	20.43	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	300712	85.87	ug/l	99
56) Bromoform	12.13	173	114714	20.62	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	713680	106.82	ug/l	99
59) 2-Hexanone	10.75	43	468813	107.35	ug/l	99
61) Tetrachloroethene	10.63	164	135582	18.63	ug/l	100
62) Toluene	10.16	91	612992	18.82	ug/l	100
64) Chlorobenzene	11.44	112	386517	19.14	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	152198	19.97	ug/l	100
66) Ethyl Benzene	11.51	91	603108	17.87	ug/l	100
67) m/p-Xylenes	11.62	106	488597	37.63	ug/l	100
68) o-Xylene	11.95	106	233956	18.86	ug/l	100
69) Styrene	11.96	104	373573	18.94	ug/l	99
70) Isopropylbenzene	12.25	105	612304	18.57	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	190744	21.37	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	150500m	19.54	ug/l	
73) Bromobenzene	12.53	156	166004	19.14	ug/l	98
74) n-propylbenzene	12.59	91	680256	18.25	ug/l	99
75) 2-Chlorotoluene	12.67	91	425586	18.80	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	509576	18.92	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	44675	20.36	ug/l	98
78) 4-Chlorotoluene	12.77	91	417049	18.71	ug/l	99
79) tert-butylbenzene	12.99	119	427526	18.27	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	510386	19.00	ug/l	99
81) sec-Butylbenzene	13.17	105	570755	18.65	ug/l	99
82) p-Isopropyltoluene	13.29	119	488736	18.50	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	274889	18.75	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	257358	18.52	ug/l	97
85) n-Butylbenzene	13.62	91	348285	17.28	ug/l	100
86) Hexachloroethane	13.88	117	94462	18.63	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	278262	19.28	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	26844	21.50	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	103229	16.07	ug/l	99
90) Hexachlorobutadiene	15.01	225	87073	19.95	ug/l	99
91) Naphthalene	15.14	128	209903	19.03	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	112745	17.49	ug/l	100

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

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