

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022118\
 Data File : VX000125.D
 Acq On : 21 Feb 2018 19:05
 Operator : JC/MD
 Sample : VX0221WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ClientSampleId :
 VX0221WBSD01

Manual Integrations
 APPROVED

sam
 2/23/2018 5:52:50 PM

Quant Time: Feb 22 07:26:29 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 06:17:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	14594	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	89271	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	85845	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	35112	31.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.63%
60) 4-Bromofluorobenzene	11.15	95	42551	30.30	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.00%
63) Toluene-d8	8.73	98	111652	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	18709	20.66 ug/l	97
3) Chloromethane	1.32	50	19823	21.84 ug/l	100
4) Vinyl Chloride	1.40	62	23597	21.85 ug/l	98
5) Bromomethane	1.64	94	18691	18.78 ug/l	100
6) Chloroethane	1.73	64	15125	21.88 ug/l	100
7) Trichlorofluoromethane	1.93	101	41250	22.05 ug/l	99
8) Diethyl Ether	2.19	74	14179	21.70 ug/l	91
9) 1,1,2-Trichlorotrifluoroet	2.39	101	22349	21.89 ug/l	99
10) 1,1-Dichloroethene	2.37	96	21162	21.70 ug/l	91
11) Methyl Iodide	2.51	142	21526	22.71 ug/l	97
12) Methyl Acetate	2.79	43	40937	23.49 ug/l	98
13) Acrolein	2.30	56	18653	88.95 ug/l	99
14) Acrylonitrile	3.16	53	85289	112.95 ug/l	99
15) Acetone	2.45	58	26965	109.54 ug/l	99
16) Carbon Disulfide	2.57	76	56391	20.22 ug/l	95
17) Allyl chloride	2.73	41	36749	22.10 ug/l	99
18) Methylene Chloride	2.86	84	23345	21.97 ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	22879	21.56 ug/l	98
20) Diisopropyl ether	3.89	45	54167	20.63 ug/l #	95
21) 1,1-Dichloroethane	3.70	63	41371	23.91 ug/l	98
22) cis-1,2-Dichloroethene	4.61	96	20371	20.67 ug/l	98
23) tert-Butyl Alcohol	3.09	59	47737	110.60 ug/l	100
24) Methyl tert-Butyl Ether	3.22	73	75437	22.45 ug/l	99
25) Chloroform	5.23	83	36293	21.15 ug/l	94
26) Cyclohexane	5.58	56	28243	20.82 ug/l #	99
29) 1,1-Dichloropropene	5.81	75	26629	20.48 ug/l	86
30) 2-Butanone	4.73	43	104436	104.36 ug/l	99
31) 2,2-Dichloropropane	4.59	77	28317	20.25 ug/l #	76
32) 1,1,1-Trichloroethane	5.51	97	32499	20.66 ug/l	99
33) Carbon Tetrachloride	5.79	117	28851	20.65 ug/l	97
34) Benzene	6.15	78	79082	21.14 ug/l #	91
35) Methacrylonitrile	5.09	41	18988	20.61 ug/l	88
36) 1,2-Dichloroethane	6.21	62	30080	21.20 ug/l	99
37) Trichloroethene	7.23	130	22543	20.39 ug/l	98
38) Methylcyclohexane	7.47	83	31411	20.16 ug/l	99
39) 1,2-Dichloropropane	7.53	63	19317	20.68 ug/l	95
40) Dibromomethane	7.67	93	15119	21.01 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	27958	20.44	ug/l	96
42) Vinyl Acetate	3.84	43	273816	107.35	ug/l	100
43) Ethyl Acetate	4.89	43	37023	21.06	ug/l	98
44) Isopropyl Acetate	6.49	43	53664	20.81	ug/l	97
45) 1,4-Dioxane	7.77	88	13617	419.82	ug/l	100
46) Methyl methacrylate	7.79	41	26238	20.92	ug/l	95
47) n-amyl Acetate	10.91	43	47823	21.24	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	32375	20.33	ug/l	94
49) cis-1,3-Dichloropropene	9.06	75	31448	20.30	ug/l	97
50) 1,1,2-Trichloroethane	9.23	97	21743	20.58	ug/l	95
51) Ethyl methacrylate	9.20	69	33439	20.66	ug/l	98
52) 1,3-Dichloropropane	9.38	76	35640	21.03	ug/l	99
53) Dibromochloromethane	9.59	129	23380	19.89	ug/l	97
54) 1,2-Dibromoethane	9.68	107	24548	20.85	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	71814	101.60	ug/l	99
56) Bromoform	10.87	173	18436	19.37	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	197942	105.27	ug/l	100
59) 2-Hexanone	9.51	43	167226	105.03	ug/l	99
61) Tetrachloroethene	9.34	164	20765	19.92	ug/l	98
62) Toluene	8.79	91	92249	20.65	ug/l	100
64) Chlorobenzene	10.15	112	62197	20.61	ug/l	94
65) 1,1,1,2-Tetrachloroethane	10.23	131	21208	19.84	ug/l	97
66) Ethyl Benzene	10.26	91	102575	20.12	ug/l	98
67) m/p-Xylenes	10.37	106	81541	40.80	ug/l	97
68) o-Xylene	10.71	106	39538	20.37	ug/l	99
69) Styrene	10.72	104	65682	20.42	ug/l	98
70) Isopropylbenzene	11.03	105	107400	20.47	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.28	83	37403	20.71	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	33870m	20.91	ug/l	
73) Bromobenzene	11.27	156	27267	19.82	ug/l	97
74) n-propylbenzene	11.37	91	127042	20.65	ug/l	100
75) 2-Chlorotoluene	11.43	91	72521	20.51	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	91610	20.60	ug/l	70
77) t-1,4-Dichloro-2-butene	11.09	75	10996	19.20	ug/l	95
78) 4-Chlorotoluene	11.52	91	87240	20.59	ug/l	99
79) tert-butylbenzene	11.78	119	89977m	20.33	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	94235	20.77	ug/l	99
81) sec-Butylbenzene	11.96	105	113147	20.68	ug/l	98
82) p-Isopropyltoluene	12.07	119	100405	20.57	ug/l	98
83) 1,3-Dichlorobenzene	12.04	146	51883	19.81	ug/l	99
84) 1,4-Dichlorobenzene	12.11	146	54281	19.88	ug/l	99
85) n-Butylbenzene	12.40	91	94683	20.68	ug/l	99
86) Hexachloroethane	12.60	117	15548	19.07	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	51867	19.98	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.01	75	10320	20.44	ug/l	93
89) 1,2,4-Trichlorobenzene	13.65	180	37607	19.73	ug/l	98
90) Hexachlorobutadiene	13.79	225	15714	19.13	ug/l	96
91) Naphthalene	13.84	128	136243	20.45	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	37901	19.78	ug/l	99

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

