

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX050218\
 Data File : VX001313.D
 Acq On : 02 May 2018 12:27
 Operator : JC/MD
 Sample : VX0502WBS03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0502WBS03

Manual Integrations
 APPROVED

MMDadoda
 5/3/2018 12:21:16 PM

Quant Time: May 03 05:13:34 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 01 09:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	33765	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	177665	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	166088	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	71323	29.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.60%
60) 4-Bromofluorobenzene	11.14	95	78005	28.03	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.43%
63) Toluene-d8	8.72	98	215086	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	41112	18.57	ug/l	99
3) Chloromethane	1.32	50	39775	19.25	ug/l	96
4) Vinyl Chloride	1.40	62	42983	19.83	ug/l	97
5) Bromomethane	1.64	94	31123	19.01	ug/l	99
6) Chloroethane	1.73	64	27921	21.06	ug/l	96
7) Trichlorofluoromethane	1.93	101	73718	20.48	ug/l	96
8) Diethyl Ether	2.19	74	26346	21.08	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	41350	20.25	ug/l	93
10) 1,1-Dichloroethene	2.37	96	36948	19.98	ug/l	91
11) Methyl Iodide	2.51	142	56675	25.19	ug/l	95
12) Methyl Acetate	2.78	43	60767	24.99	ug/l	98
13) Acrolein	2.30	56	20866	71.95	ug/l	99
14) Acrylonitrile	3.15	53	113869	117.66	ug/l	97
15) Acetone	2.45	58	34050	113.08	ug/l	90
16) Carbon Disulfide	2.57	76	85712	17.42	ug/l	100
17) Allyl chloride	2.73	41	66809	20.36	ug/l	95
18) Methylene Chloride	2.86	84	42462	21.06	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	40480	20.30	ug/l	97
20) Diisopropyl ether	3.88	45	118616	18.36	ug/l	99
21) 1,1-Dichloroethane	3.70	63	66398	19.13	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	42220	18.96	ug/l	98
23) tert-Butyl Alcohol	3.08	59	52329	132.31	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	135084	21.30	ug/l	95
25) Chloroform	5.23	83	72321	19.14	ug/l	95
26) Cyclohexane	5.57	56	55734	17.66	ug/l #	96
29) 1,1-Dichloropropene	5.81	75	50024	19.01	ug/l	99
30) 2-Butanone	4.72	43	151487	112.31	ug/l	98
31) 2,2-Dichloropropane	4.59	77	52031	18.11	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	61648	19.36	ug/l	98
33) Carbon Tetrachloride	5.79	117	53611	18.68	ug/l	93
34) Benzene	6.15	78	153921	19.73	ug/l	94
35) Methacrylonitrile	5.07	41	32277	21.56	ug/l	93
36) 1,2-Dichloroethane	6.21	62	59246	19.79	ug/l	99
37) Trichloroethene	7.22	130	47186	19.95	ug/l	94
38) Methylcyclohexane	7.46	83	58205	18.79	ug/l	96
39) 1,2-Dichloropropane	7.53	63	38848	19.64	ug/l	99
40) Dibromomethane	7.67	93	28531	20.50	ug/l	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.91	83	49731	18.92	ug/l #	95
42) Vinyl Acetate	3.83	43	512256	96.55	ug/l	98
43) Ethyl Acetate	4.87	43	57185	22.01	ug/l	97
44) Isopropyl Acetate	6.48	43	88078	19.93	ug/l	98
45) 1,4-Dioxane	7.76	88	20557	511.69	ug/l	99
46) Methyl methacrylate	7.79	41	47230	20.54	ug/l	88
47) n-amyl Acetate	10.90	43	80741	19.04	ug/l	100
48) t-1,3-Dichloropropene	8.45	75	58157	18.79	ug/l	98
49) cis-1,3-Dichloropropene	9.05	75	51010	17.21	ug/l	92
50) 1,1,2-Trichloroethane	9.22	97	42948	20.78	ug/l	97
51) Ethyl methacrylate	9.19	69	57627	19.57	ug/l	91
52) 1,3-Dichloropropane	9.38	76	68254	20.43	ug/l	99
53) Dibromochloromethane	9.59	129	42191	18.50	ug/l	99
54) 1,2-Dibromoethane	9.68	107	44204	19.98	ug/l	97
55) 2-Chloroethyl vinyl ether	8.32	63	148524	102.96	ug/l	100
56) Bromoform	10.87	173	33747	18.08	ug/l #	98
58) 4-Methyl-2-Pentanone	8.66	43	305536	110.84	ug/l	99
59) 2-Hexanone	9.51	43	233396	108.67	ug/l	97
61) Tetrachloroethene	9.34	164	57884	22.74	ug/l	88
62) Toluene	8.79	91	174872	19.59	ug/l	99
64) Chlorobenzene	10.15	112	117258	19.47	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	41997	19.10	ug/l	96
66) Ethyl Benzene	10.26	91	190372	19.11	ug/l	99
67) m/p-Xylenes	10.37	106	153548	38.80	ug/l	97
68) o-Xylene	10.71	106	73547	19.23	ug/l	99
69) Styrene	10.72	104	120299	18.89	ug/l	99
70) Isopropylbenzene	11.02	105	199331	19.19	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	60731	19.93	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	58497m	21.45	ug/l	
73) Bromobenzene	11.26	156	58965	19.53	ug/l	92
74) n-propylbenzene	11.37	91	221681	18.89	ug/l	100
75) 2-Chlorotoluene	11.43	91	134216	18.95	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	168631	19.05	ug/l	67
77) t-1,4-Dichloro-2-butene	11.08	75	12897	15.90	ug/l	85
78) 4-Chlorotoluene	11.52	91	155660	18.43	ug/l	99
79) tert-butylbenzene	12.07	119	180577	19.07	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	174689	19.39	ug/l	99
81) sec-Butylbenzene	11.95	105	200315	19.49	ug/l	99
82) p-Isopropyltoluene	12.07	119	180577	19.07	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	103352	18.78	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	103679	18.48	ug/l	98
85) n-Butylbenzene	12.39	91	149864	18.30	ug/l	99
86) Hexachloroethane	12.60	117	23882	16.50	ug/l	69
87) 1,2-Dichlorobenzene	12.40	146	106907	19.53	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	12461	19.57	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	77255	18.63	ug/l	97
90) Hexachlorobutadiene	13.79	225	40866	21.23	ug/l	98
91) Naphthalene	13.84	128	217886	20.25	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	80281	19.61	ug/l	96

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

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