

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030818\
 Data File : VX000216.D
 Acq On : 08 Mar 2018 11:06
 Operator : JC/MD
 Sample : VX0308WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0308WBS01

Manual Integrations
 APPROVED

apatel
 3/9/2018 9:38:11 AM

Quant Time: Mar 08 13:10:18 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	23822	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	143087	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	141634	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	57656	31.27	ug/l	-0.01
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.23%
60) 4-Bromofluorobenzene	11.15	95	71769	30.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.23%
63) Toluene-d8	8.73	98	181740	29.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.87%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	19322	13.07	ug/l	99
3) Chloromethane	1.32	50	17627	11.90	ug/l	96
4) Vinyl Chloride	1.41	62	22076	12.52	ug/l	96
5) Bromomethane	1.65	94	18580	11.44	ug/l	96
6) Chloroethane	1.73	64	15469	13.71	ug/l	94
7) Trichlorofluoromethane	1.93	101	44939	14.71	ug/l	98
8) Diethyl Ether	2.19	74	16769	15.72	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.39	101	28514	17.11	ug/l	92
10) 1,1-Dichloroethene	2.38	96	21624	13.58	ug/l	90
11) Methyl Iodide	2.52	142	17581	11.36	ug/l	98
12) Methyl Acetate	2.78	43	63803	22.43	ug/l	96
13) Acrolein	2.30	56	57610	168.31	ug/l	98
14) Acrylonitrile	3.15	53	121255	98.38	ug/l	99
15) Acetone	2.45	58	45102	112.24	ug/l	99
16) Carbon Disulfide	2.58	76	30240	6.64	ug/l	98
17) Allyl chloride	2.73	41	43853	16.16	ug/l	93
18) Methylene Chloride	2.87	84	27422	15.81	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	22293	12.87	ug/l	92
20) Diisopropyl ether	3.88	45	95708	22.34	ug/l	98
21) 1,1-Dichloroethane	3.71	63	51777	18.33	ug/l	99
22) cis-1,2-Dichloroethene	4.61	96	27404	17.03	ug/l	100
23) tert-Butyl Alcohol	3.06	59	73722	104.64	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	102517	18.69	ug/l	98
25) Chloroform	5.22	83	52569	18.77	ug/l	96
26) Cyclohexane	5.59	56	30029	13.56	ug/l	# 97
29) 1,1-Dichloropropene	5.81	75	32350	15.52	ug/l	98
30) 2-Butanone	4.71	43	179632	111.99	ug/l	98
31) 2,2-Dichloropropane	4.59	77	39816	17.76	ug/l	98
32) 1,1,1-Trichloroethane	5.51	97	44440	17.63	ug/l	97
33) Carbon Tetrachloride	5.79	117	35419	15.82	ug/l	93
34) Benzene	6.15	78	100263	16.72	ug/l	95
35) Methacrylonitrile	5.07	41	29374	19.89	ug/l	85
36) 1,2-Dichloroethane	6.21	62	43438	19.10	ug/l	100
37) Trichloroethene	7.22	130	29380	16.58	ug/l	97
38) Methylcyclohexane	7.47	83	34733	13.90	ug/l	98
39) 1,2-Dichloropropane	7.53	63	29324	19.59	ug/l	97
40) Dibromomethane	7.67	93	21928	19.01	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	41859	19.09	ug/l	100
42) Vinyl Acetate	3.83	43	437994	107.13	ug/l	99
43) Ethyl Acetate	4.87	43	55340	19.64	ug/l #	85
44) Isopropyl Acetate	6.48	43	83494	20.20	ug/l	96
45) 1,4-Dioxane	7.76	88	18306	352.12	ug/l	98
46) Methyl methacrylate	7.79	41	39668	19.73	ug/l	95
47) n-amyl Acetate	10.91	43	76370	21.16	ug/l	96
48) t-1,3-Dichloropropene	8.45	75	47009	18.42	ug/l	97
49) cis-1,3-Dichloropropene	9.05	75	46651	18.78	ug/l	92
50) 1,1,2-Trichloroethane	9.23	97	33093	19.54	ug/l	97
51) Ethyl methacrylate	9.19	69	50568	19.49	ug/l	94
52) 1,3-Dichloropropane	9.38	76	54012	19.88	ug/l	100
53) Dibromochloromethane	9.59	129	34242	18.17	ug/l	98
54) 1,2-Dibromoethane	9.68	107	33845	17.93	ug/l	96
55) 2-Chloroethyl vinyl ether	8.32	63	113383	100.08	ug/l	98
56) Bromoform	10.87	173	26466	17.34	ug/l	98
58) 4-Methyl-2-Pentanone	8.66	43	336939	108.61	ug/l	98
59) 2-Hexanone	9.51	43	291584	111.00	ug/l	98
61) Tetrachloroethene	9.34	164	26730	15.54	ug/l	94
62) Toluene	8.79	91	124190	16.85	ug/l	100
64) Chlorobenzene	10.15	112	89548	17.98	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	32505	18.43	ug/l	98
66) Ethyl Benzene	10.26	91	151823	18.05	ug/l	96
67) m/p-Xylenes	10.37	106	115519	35.03	ug/l	97
68) o-Xylene	10.71	106	59134	18.46	ug/l	100
69) Styrene	10.72	104	98321	18.53	ug/l	98
70) Isopropylbenzene	11.02	105	161505	18.65	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	62933	21.13	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	56801m	21.26	ug/l	
73) Bromobenzene	11.26	156	42271	18.62	ug/l	95
74) n-propylbenzene	11.37	91	198288	19.54	ug/l	99
75) 2-Chlorotoluene	11.43	91	111747	19.15	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	139673	19.04	ug/l	70
77) t-1,4-Dichloro-2-butene	11.09	75	17172	18.17	ug/l	90
78) 4-Chlorotoluene	11.52	91	136371	19.51	ug/l	99
79) tert-butylbenzene	11.78	119	144949m	19.85	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	147460	19.70	ug/l	96
81) sec-Butylbenzene	11.96	105	182296	20.19	ug/l	99
82) p-Isopropyltoluene	12.07	119	161024	19.99	ug/l	98
83) 1,3-Dichlorobenzene	12.04	146	83527	19.33	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	86480	19.20	ug/l	99
85) n-Butylbenzene	12.40	91	157659	20.87	ug/l	99
86) Hexachloroethane	12.60	117	25586	19.02	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	84262	19.68	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	18428	22.12	ug/l	88
89) 1,2,4-Trichlorobenzene	13.66	180	61745	19.63	ug/l	99
90) Hexachlorobutadiene	13.79	225	25962	19.16	ug/l	97
91) Naphthalene	13.84	128	221000	20.11	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	61147	19.34	ug/l	99

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

