

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000116.D
 Acq On : 20 Feb 2018 19:12
 Operator : JC/MD
 Sample : VX0220WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0220WBS01

Manual Integrations
 APPROVED

apatel
 2/22/2018 4:05:04 PM

Quant Time: Feb 21 06:35:46 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	14490	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	87833	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	85854	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	35776	31.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.33%
60) 4-Bromofluorobenzene	11.15	95	41937	29.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.53%
63) Toluene-d8	8.73	98	109326	29.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.10%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	18929	21.05	ug/l	96
3) Chloromethane	1.32	50	19868	22.04	ug/l	98
4) Vinyl Chloride	1.40	62	23707	22.11	ug/l	99
5) Bromomethane	1.64	94	19734	19.97	ug/l	100
6) Chloroethane	1.73	64	15343	22.35	ug/l	98
7) Trichlorofluoromethane	1.93	101	41037	22.09	ug/l	100
8) Diethyl Ether	2.20	74	14483	22.32	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	22587	22.28	ug/l	99
10) 1,1-Dichloroethene	2.38	96	21353	22.05	ug/l	93
11) Methyl Iodide	2.51	142	18297	19.44	ug/l	95
12) Methyl Acetate	2.79	43	37669	21.77	ug/l	98
13) Acrolein	2.30	56	18636	89.51	ug/l	99
14) Acrylonitrile	3.16	53	79697	106.30	ug/l	98
15) Acetone	2.45	58	23636	96.70	ug/l	99
16) Carbon Disulfide	2.57	76	58313	21.06	ug/l	99
17) Allyl chloride	2.73	41	36711	22.24	ug/l	98
18) Methylene Chloride	2.86	84	23759	22.52	ug/l	92
19) trans-1,2-Dichloroethene	3.17	96	22989	21.82	ug/l	94
20) Diisopropyl ether	3.89	45	54825	21.03	ug/l	96
21) 1,1-Dichloroethane	3.70	63	36695	21.36	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	20911	21.37	ug/l	97
23) tert-Butyl Alcohol	3.09	59	41772	97.48	ug/l	100
24) Methyl tert-Butyl Ether	3.22	73	76607	22.96	ug/l	100
25) Chloroform	5.23	83	36692	21.54	ug/l	94
26) Cyclohexane	5.58	56	29364	21.80	ug/l #	98
29) 1,1-Dichloropropene	5.81	75	28399	22.20	ug/l	96
30) 2-Butanone	4.73	43	97840	99.37	ug/l	100
31) 2,2-Dichloropropane	4.60	77	28709	20.87	ug/l	99
32) 1,1,1-Trichloroethane	5.51	97	33022	21.34	ug/l	97
33) Carbon Tetrachloride	5.79	117	29288	21.31	ug/l	93
34) Benzene	6.16	78	81419	22.12	ug/l #	92
35) Methacrylonitrile	5.08	41	18315	20.20	ug/l	90
36) 1,2-Dichloroethane	6.21	62	30896	22.14	ug/l	100
37) Trichloroethene	7.22	130	23596	21.69	ug/l	96
38) Methylcyclohexane	7.47	83	31828	20.76	ug/l	99
39) 1,2-Dichloropropane	7.52	63	20276	22.07	ug/l	98
40) Dibromomethane	7.67	93	15379	21.72	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	28934	21.50	ug/l	99
42) Vinyl Acetate	3.84	43	264270	105.31	ug/l	99
43) Ethyl Acetate	4.88	43	36422	21.06	ug/l	99
44) Isopropyl Acetate	6.48	43	53848	21.22	ug/l	98
45) 1,4-Dioxane	7.77	88	12049	377.56	ug/l	99
46) Methyl methacrylate	7.79	41	27014	21.89	ug/l	95
47) n-amyl Acetate	10.91	43	48354	21.83	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	33664	21.49	ug/l	99
49) cis-1,3-Dichloropropene	9.06	75	32241	21.15	ug/l	97
50) 1,1,2-Trichloroethane	9.23	97	22356	21.51	ug/l	98
51) Ethyl methacrylate	9.20	69	33951	21.32	ug/l	98
52) 1,3-Dichloropropane	9.38	76	36355	21.80	ug/l	100
53) Dibromochloromethane	9.59	129	24216	20.94	ug/l	94
54) 1,2-Dibromoethane	9.68	107	24370	21.03	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	78910	113.47	ug/l	100
56) Bromoform	10.87	173	19021	20.31	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	196231	104.35	ug/l	99
59) 2-Hexanone	9.51	43	160029	100.50	ug/l	99
61) Tetrachloroethene	9.34	164	21369	20.50	ug/l	97
62) Toluene	8.79	91	93836	21.01	ug/l	98
64) Chlorobenzene	10.15	112	63509	21.04	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.23	131	22573	21.11	ug/l	99
66) Ethyl Benzene	10.26	91	109521	21.48	ug/l	98
67) m/p-Xylenes	10.37	106	85806	42.93	ug/l	98
68) o-Xylene	10.71	106	41761	21.51	ug/l	97
69) Styrene	10.72	104	67991	21.14	ug/l	99
70) Isopropylbenzene	11.02	105	111858	21.31	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	37425	20.72	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	34074m	21.04	ug/l	
73) Bromobenzene	11.26	156	28821	20.95	ug/l	97
74) n-propylbenzene	11.37	91	131419	21.36	ug/l	100
75) 2-Chlorotoluene	11.43	91	75099	21.23	ug/l	99
76) 1,3,5-Trimethylbenzene	11.52	105	94119	21.16	ug/l	71
77) t-1,4-Dichloro-2-butene	11.09	75	11048	19.29	ug/l	92
78) 4-Chlorotoluene	11.52	91	90580	21.38	ug/l	99
79) tert-butylbenzene	11.78	119	92765m	20.96	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	96327	21.23	ug/l	99
81) sec-Butylbenzene	11.96	105	116952	21.37	ug/l	98
82) p-Isopropyltoluene	12.07	119	103185	21.14	ug/l	98
83) 1,3-Dichlorobenzene	12.04	146	53740	20.51	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	55692	20.40	ug/l	99
85) n-Butylbenzene	12.40	91	96804	21.14	ug/l	99
86) Hexachloroethane	12.60	117	16637	20.40	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	53341	20.55	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	9959	19.72	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	38495	20.19	ug/l	100
90) Hexachlorobutadiene	13.79	225	16692	20.32	ug/l	96
91) Naphthalene	13.84	128	137872	20.69	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	38876	20.28	ug/l	100

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

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