

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030118\
 Data File : VX000181.D
 Acq On : 01 Mar 2018 13:28
 Operator : JC/MD
 Sample : VX0301WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 ClientSampleId :
 VX0301WBS01

Manual Integrations
 APPROVED

apatel
 3/2/2018 3:13:22 PM

Quant Time: Mar 02 03:56:45 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	19152	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	111745	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	106234	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	44720	30.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.57%
60) 4-Bromofluorobenzene	11.15	95	52336	30.11	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.37%
63) Toluene-d8	8.73	98	138873	30.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.73%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	13887	11.68	ug/l	92
3) Chloromethane	1.32	50	13733	11.53	ug/l	98
4) Vinyl Chloride	1.41	62	16959	11.96	ug/l	94
5) Bromomethane	1.65	94	14885	11.40	ug/l	97
6) Chloroethane	1.73	64	11561	12.74	ug/l	97
7) Trichlorofluoromethane	1.94	101	32513	13.24	ug/l	95
8) Diethyl Ether	2.20	74	11571	13.49	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.39	101	18460	13.78	ug/l	94
10) 1,1-Dichloroethene	2.39	96	15450	12.07	ug/l	93
11) Methyl Iodide	2.52	142	10054	8.08	ug/l	96
12) Methyl Acetate	2.78	43	38885	17.00	ug/l	96
13) Acrolein	2.30	56	3940	14.32	ug/l	99
14) Acrylonitrile	3.15	53	75050	75.74	ug/l	98
15) Acetone	2.45	58	26804	82.97	ug/l	94
16) Carbon Disulfide	2.57	76	31767	8.68	ug/l	96
17) Allyl chloride	2.73	41	30438	13.95	ug/l	89
18) Methylene Chloride	2.87	84	18349	13.16	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	17112	12.29	ug/l	93
20) Diisopropyl ether	3.88	45	57172	16.60	ug/l	98
21) 1,1-Dichloroethane	3.71	63	33547	14.77	ug/l	98
22) cis-1,2-Dichloroethene	4.61	96	16987	13.13	ug/l	97
23) tert-Butyl Alcohol	3.07	59	43989	77.66	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	62865	14.26	ug/l	96
25) Chloroform	5.23	83	31220	13.87	ug/l	98
26) Cyclohexane	5.59	56	22026	12.37	ug/l	# 98
29) 1,1-Dichloropropene	5.81	75	22496	13.82	ug/l	97
30) 2-Butanone	4.71	43	103732	82.81	ug/l	99
31) 2,2-Dichloropropane	4.60	77	25028	14.30	ug/l	# 84
32) 1,1,1-Trichloroethane	5.51	97	26916	13.67	ug/l	98
33) Carbon Tetrachloride	5.79	117	21975	12.57	ug/l	98
34) Benzene	6.15	78	65633	14.02	ug/l	95
35) Methacrylonitrile	5.07	41	17169	14.89	ug/l	91
36) 1,2-Dichloroethane	6.21	62	26829	15.11	ug/l	96
37) Trichloroethene	7.22	130	19119	13.81	ug/l	100
38) Methylcyclohexane	7.47	83	25177	12.91	ug/l	97
39) 1,2-Dichloropropane	7.52	63	16857	14.42	ug/l	91
40) Dibromomethane	7.68	93	13418	14.90	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	23906	13.96	ug/l	98
42) Vinyl Acetate	3.83	43	273261	85.59	ug/l	99
43) Ethyl Acetate	4.87	43	34190	15.54	ug/l	99
44) Isopropyl Acetate	6.48	43	48876	15.14	ug/l	98
45) 1,4-Dioxane	7.77	88	11259	277.31	ug/l	96
46) Methyl methacrylate	7.79	41	23614	15.04	ug/l	93
47) n-amyl Acetate	10.91	43	41430	14.70	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	27636	13.87	ug/l	97
49) cis-1,3-Dichloropropene	9.05	75	26538	13.68	ug/l #	87
50) 1,1,2-Trichloroethane	9.23	97	18832	14.24	ug/l	99
51) Ethyl methacrylate	9.19	69	28365	14.00	ug/l	91
52) 1,3-Dichloropropane	9.38	76	31781	14.98	ug/l	99
53) Dibromochloromethane	9.59	129	18461	12.55	ug/l	94
54) 1,2-Dibromoethane	9.68	107	20660	14.02	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	59613	67.38	ug/l	99
56) Bromoform	10.87	173	14285	11.99	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	192352	82.66	ug/l	98
59) 2-Hexanone	9.51	43	159773	81.09	ug/l	98
61) Tetrachloroethene	9.34	164	17129	13.28	ug/l	94
62) Toluene	8.79	91	77547	14.03	ug/l	98
64) Chlorobenzene	10.15	112	53508	14.33	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.23	131	17879	13.51	ug/l	97
66) Ethyl Benzene	10.26	91	89791	14.23	ug/l	97
67) m/p-Xylenes	10.37	106	69897	28.26	ug/l	98
68) o-Xylene	10.71	106	33529	13.96	ug/l	100
69) Styrene	10.72	104	55680	13.99	ug/l	98
70) Isopropylbenzene	11.02	105	92355	14.22	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	34513	15.45	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	31932m	15.93	ug/l	
73) Bromobenzene	11.26	156	23716	13.93	ug/l	95
74) n-propylbenzene	11.37	91	113751	14.94	ug/l	97
75) 2-Chlorotoluene	11.43	91	64158	14.66	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	76967	13.99	ug/l	70
77) t-1,4-Dichloro-2-butene	11.09	75	9216	13.00	ug/l	90
78) 4-Chlorotoluene	11.52	91	78236	14.92	ug/l	97
79) tert-butylbenzene	11.78	119	78599m	14.35	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	78814	14.04	ug/l	99
81) sec-Butylbenzene	11.96	105	99140	14.64	ug/l	98
82) p-Isopropyltoluene	12.07	119	85715	14.19	ug/l	98
83) 1,3-Dichlorobenzene	12.04	146	46546	14.36	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	47348	14.02	ug/l	98
85) n-Butylbenzene	12.40	91	84546	14.92	ug/l	99
86) Hexachloroethane	12.60	117	12996	12.88	ug/l	93
87) 1,2-Dichlorobenzene	12.40	146	45447	14.15	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	9442	15.11	ug/l	84
89) 1,2,4-Trichlorobenzene	13.65	180	32793	13.90	ug/l	97
90) Hexachlorobutadiene	13.79	225	13874	13.65	ug/l	97
91) Naphthalene	13.84	128	117290	14.23	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	33056	13.94	ug/l	99

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

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