

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022218\
 Data File : VX000130.D
 Acq On : 22 Feb 2018 15:50
 Operator : JC/MD
 Sample : MDL05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ClientSampled :
 MDL05

Manual Integrations
 APPROVED

apatel
 2/23/2018 3:52:09 PM

Quant Time: Feb 23 15:09:51 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	5.02	128	14555	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.87	114	84577	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	78446	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	34406	30.54	ug/l	-0.01
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.80%
60) 4-Bromofluorobenzene	11.15	95	37837	29.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.27%
63) Toluene-d8	8.72	98	103244	30.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.43%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	1588	1.76	ug/l	82
3) Chloromethane	1.32	50	1917	2.12	ug/l	97
4) Vinyl Chloride	1.40	62	1776	1.65	ug/l #	83
5) Bromomethane	1.65	94	1686	1.70	ug/l #	78
6) Chloroethane	1.74	64	1349m	1.96	ug/l	
7) Trichlorofluoromethane	1.93	101	3251	1.74	ug/l	99
8) Diethyl Ether	2.19	74	1101	1.69	ug/l	62
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1761	1.73	ug/l	89
10) 1,1-Dichloroethene	2.39	96	1477	1.52	ug/l	93
11) Methyl Iodide	2.52	142	1223	1.29	ug/l	93
12) Methyl Acetate	2.78	43	2593	1.49	ug/l #	79
13) Acrolein	2.29	56	3137	15.00	ug/l	96
14) Acrylonitrile	3.15	53	6425	8.53	ug/l	95
15) Acetone	2.45	58	2391	9.74	ug/l	81
16) Carbon Disulfide	2.57	76	4536	1.63	ug/l #	88
17) Allyl chloride	2.74	41	2685	1.62	ug/l	99
18) Methylene Chloride	2.86	84	2050	1.93	ug/l #	81
19) trans-1,2-Dichloroethene	3.17	96	1985	1.88	ug/l #	73
20) Diisopropyl ether	3.88	45	4748	1.81	ug/l #	96
21) 1,1-Dichloroethane	3.70	63	3163	1.83	ug/l #	78
22) cis-1,2-Dichloroethene	4.61	96	1763	1.79	ug/l #	4
23) tert-Butyl Alcohol	3.06	59	3875	9.00	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	5625	1.68	ug/l	99
25) Chloroform	5.21	83	2620	1.53	ug/l #	73
26) Cyclohexane	5.58	56	2275m	1.68	ug/l	
29) 1,1-Dichloropropene	5.81	75	2241	1.82	ug/l	83
30) 2-Butanone	4.72	43	9360	9.87	ug/l #	98
31) 2,2-Dichloropropane	4.60	77	2341	1.77	ug/l #	75
32) 1,1,1-Trichloroethane	5.49	97	2573	1.73	ug/l #	68
33) Carbon Tetrachloride	5.79	117	1937	1.46	ug/l	97
34) Benzene	6.15	78	6514	1.84	ug/l	92
35) Methacrylonitrile	5.07	41	1920m	2.20	ug/l	
36) 1,2-Dichloroethane	6.21	62	2430	1.81	ug/l #	90
37) Trichloroethene	7.22	130	1808	1.73	ug/l	88
38) Methylcyclohexane	7.47	83	2670	1.81	ug/l	96
39) 1,2-Dichloropropane	7.52	63	1502	1.70	ug/l #	66
40) Dibromomethane	7.67	93	1315	1.93	ug/l	87

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

41) Bromodichloromethane	7.90	83	2056	1.59	ug/l #	88
42) Vinyl Acetate	3.82	43	22889	9.47	ug/l	99
43) Ethyl Acetate	4.88	43	3069	1.84	ug/l #	70
44) Isopropyl Acetate	6.48	43	4552	1.86	ug/l #	83
45) 1,4-Dioxane	7.76	88	987m	32.12	ug/l	
46) Methyl methacrylate	7.79	41	2218	1.87	ug/l	95
47) n-amyl Acetate	10.91	43	3049	1.43	ug/l #	86
48) t-1,3-Dichloropropene	8.44	75	2186	1.45	ug/l	94
49) cis-1,3-Dichloropropene	9.06	75	2206	1.50	ug/l #	87
50) 1,1,2-Trichloroethane	9.23	97	1776	1.77	ug/l #	89
51) Ethyl methacrylate	9.19	69	2407	1.57	ug/l	88
52) 1,3-Dichloropropane	9.38	76	2858	1.78	ug/l	98
53) Dibromochloromethane	9.59	129	1557	1.40	ug/l	96
54) 1,2-Dibromoethane	9.68	107	1663	1.49	ug/l	89
55) 2-Chloroethyl vinyl ether	8.32	63	12042	17.98	ug/l	96
56) Bromoform	10.87	173	1073	1.19	ug/l #	88
58) 4-Methyl-2-Pentanone	8.66	43	15193	8.84	ug/l	99
59) 2-Hexanone	9.51	43	12091	8.31	ug/l	97
61) Tetrachloroethene	9.34	164	1720	1.81	ug/l #	75
62) Toluene	8.79	91	6810	1.67	ug/l	99
64) Chlorobenzene	10.15	112	4524	1.64	ug/l #	74
65) 1,1,1,2-Tetrachloroethane	10.23	131	1307	1.34	ug/l	85
66) Ethyl Benzene	10.26	91	7925	1.70	ug/l	100
67) m/p-Xylenes	10.37	106	5881	3.22	ug/l	98
68) o-Xylene	10.71	106	2719	1.53	ug/l	98
69) Styrene	10.72	104	4484	1.53	ug/l	96
70) Isopropylbenzene	11.02	105	7835	1.63	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	2810	1.70	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	2654m	1.79	ug/l	
73) Bromobenzene	11.26	156	2117	1.68	ug/l	94
74) n-propylbenzene	11.37	91	9440	1.68	ug/l	98
75) 2-Chlorotoluene	11.43	91	5105	1.58	ug/l	91
76) 1,3,5-Trimethylbenzene	11.51	105	6582	1.62	ug/l	77
77) t-1,4-Dichloro-2-butene	11.08	75	722m	1.38	ug/l	
78) 4-Chlorotoluene	11.52	91	6497	1.68	ug/l	99
79) tert-butylbenzene	11.78	119	6116m	1.51	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	6178	1.49	ug/l	97
81) sec-Butylbenzene	11.96	105	7784	1.56	ug/l	97
82) p-Isopropyltoluene	12.07	119	6850	1.54	ug/l	96
83) 1,3-Dichlorobenzene	12.04	146	4039	1.69	ug/l	94
84) 1,4-Dichlorobenzene	12.10	146	4053	1.62	ug/l	97
85) n-Butylbenzene	12.40	91	6420	1.53	ug/l	94
86) Hexachloroethane	12.60	117	991	1.33	ug/l	94
87) 1,2-Dichlorobenzene	12.40	146	3690	1.56	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.01	75	711	1.54	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	2780	1.60	ug/l	95
90) Hexachlorobutadiene	13.79	225	1195	1.59	ug/l	99
91) Naphthalene	13.84	128	9124	1.50	ug/l	98
92) 1,2,3-Trichlorobenzene	14.03	180	2445	1.40	ug/l	91

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

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