

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022218\
 Data File : VX000131.D
 Acq On : 22 Feb 2018 16:15
 Operator : JC/MD
 Sample : MDL06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ClientSampleId :
 MDL06

Manual Integrations
 APPROVED

apatel
 2/23/2018 3:52:13 PM

Quant Time: Feb 23 15:12:00 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	17467	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	106771	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	99633	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	43115	31.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.30%
60) 4-Bromofluorobenzene	11.15	95	47771	29.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.70%
63) Toluene-d8	8.73	98	130593	30.60	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	2685	2.48	ug/l	96
3) Chloromethane	1.32	50	2726	2.51	ug/l	97
4) Vinyl Chloride	1.40	62	3166	2.45	ug/l	98
5) Bromomethane	1.65	94	3064	2.57	ug/l	95
6) Chloroethane	1.73	64	1986	2.40	ug/l	99
7) Trichlorofluoromethane	1.93	101	5515	2.46	ug/l	94
8) Diethyl Ether	2.19	74	1897	2.43	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2813	2.30	ug/l	93
10) 1,1-Dichloroethene	2.38	96	2775	2.38	ug/l	93
11) Methyl Iodide	2.52	142	2246	1.98	ug/l	99
12) Methyl Acetate	2.78	43	5227	2.51	ug/l	93
13) Acrolein	2.30	56	2162m	8.61	ug/l	
14) Acrylonitrile	3.15	53	11326	12.53	ug/l	99
15) Acetone	2.45	58	3905	13.25	ug/l #	64
16) Carbon Disulfide	2.57	76	7519	2.25	ug/l	98
17) Allyl chloride	2.74	41	4581	2.30	ug/l	93
18) Methylene Chloride	2.87	84	3222	2.53	ug/l #	77
19) trans-1,2-Dichloroethene	3.17	96	2891	2.28	ug/l #	90
20) Diisopropyl ether	3.89	45	6888	2.19	ug/l	96
21) 1,1-Dichloroethane	3.70	63	5267	2.54	ug/l	92
22) cis-1,2-Dichloroethene	4.60	96	2883	2.44	ug/l	94
23) tert-Butyl Alcohol	3.07	59	6393	12.38	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	9325	2.32	ug/l #	88
25) Chloroform	5.23	83	4598	2.24	ug/l	97
26) Cyclohexane	5.58	56	3868	2.38	ug/l #	67
29) 1,1-Dichloropropene	5.81	75	3690	2.37	ug/l	87
30) 2-Butanone	4.72	43	14790	12.36	ug/l #	95
31) 2,2-Dichloropropane	4.60	77	3693m	2.21	ug/l	
32) 1,1,1-Trichloroethane	5.51	97	4229	2.25	ug/l	95
33) Carbon Tetrachloride	5.79	117	3520m	2.11	ug/l	
34) Benzene	6.16	78	10544	2.36	ug/l #	90
35) Methacrylonitrile	5.07	41	2884	2.62	ug/l	85
36) 1,2-Dichloroethane	6.20	62	4162	2.45	ug/l #	91
37) Trichloroethene	7.22	130	3209	2.43	ug/l	95
38) Methylcyclohexane	7.47	83	4421	2.37	ug/l	94
39) 1,2-Dichloropropane	7.52	63	2688	2.41	ug/l #	87
40) Dibromomethane	7.67	93	1927	2.24	ug/l	98

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

41) Bromodichloromethane	7.91	83	3225	1.97	ug/l #	91
42) Vinyl Acetate	3.83	43	30814	10.10	ug/l	97
43) Ethyl Acetate	4.87	43	5292m	2.52	ug/l	
44) Isopropyl Acetate	6.49	43	6923	2.24	ug/l	93
45) 1,4-Dioxane	7.77	88	1654	42.64	ug/l #	91
46) Methyl methacrylate	7.79	41	3334	2.22	ug/l	79
47) n-amyl Acetate	10.91	43	5522	2.05	ug/l	95
48) t-1,3-Dichloropropene	8.45	75	3887	2.04	ug/l #	87
49) cis-1,3-Dichloropropene	9.06	75	3597	1.94	ug/l	98
50) 1,1,2-Trichloroethane	9.23	97	2868	2.27	ug/l	90
51) Ethyl methacrylate	9.20	69	3801	1.96	ug/l	99
52) 1,3-Dichloropropane	9.38	76	4923	2.43	ug/l	97
53) Dibromochloromethane	9.60	129	2579	1.83	ug/l	99
54) 1,2-Dibromoethane	9.68	107	2918	2.07	ug/l	97
55) 2-Chloroethyl vinyl ether	8.32	63	10981	12.99	ug/l	100
56) Bromoform	10.87	173	1759	1.54	ug/l #	96
58) 4-Methyl-2-Pentanone	8.66	43	25437	11.66	ug/l	99
59) 2-Hexanone	9.51	43	21054	11.39	ug/l	100
61) Tetrachloroethene	9.34	164	2917	2.41	ug/l	89
62) Toluene	8.79	91	11794	2.28	ug/l	96
64) Chlorobenzene	10.15	112	8273	2.36	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.23	131	2685	2.16	ug/l	93
66) Ethyl Benzene	10.26	91	13370	2.26	ug/l	99
67) m/p-Xylenes	10.37	106	10221	4.41	ug/l	95
68) o-Xylene	10.71	106	4733	2.10	ug/l	89
69) Styrene	10.72	104	7233	1.94	ug/l	90
70) Isopropylbenzene	11.02	105	13340	2.19	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	4688	2.24	ug/l	97
72) 1,2,3-Trichloropropane	11.31	75	4321m	2.30	ug/l	
73) Bromobenzene	11.26	156	3402	2.13	ug/l	88
74) n-propylbenzene	11.37	91	16276	2.28	ug/l	97
75) 2-Chlorotoluene	11.43	91	9508	2.32	ug/l	94
76) 1,3,5-Trimethylbenzene	11.51	105	10627	2.06	ug/l	66
77) t-1,4-Dichloro-2-butene	11.09	75	1151	1.73	ug/l	95
78) 4-Chlorotoluene	11.52	91	10821	2.20	ug/l	96
79) tert-butylbenzene	11.78	119	10718m	2.09	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	10922	2.07	ug/l	99
81) sec-Butylbenzene	11.95	105	14020	2.21	ug/l	100
82) p-Isopropyltoluene	12.07	119	11788	2.08	ug/l	98
83) 1,3-Dichlorobenzene	12.04	146	6412	2.11	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	6455	2.04	ug/l	96
85) n-Butylbenzene	12.40	91	11323	2.13	ug/l	98
86) Hexachloroethane	12.60	117	1421	1.50	ug/l	87
87) 1,2-Dichlorobenzene	12.40	146	6426	2.13	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.01	75	1256	2.14	ug/l	83
89) 1,2,4-Trichlorobenzene	13.65	180	4574	2.07	ug/l	97
90) Hexachlorobutadiene	13.79	225	1900	1.99	ug/l	97
91) Naphthalene	13.84	128	15407	1.99	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	4543	2.04	ug/l	95

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

