

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022118\
 Data File : VX000123.D
 Acq On : 21 Feb 2018 18:13
 Operator : JC/MD
 Sample : MDL04 2.00PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ClientSampleId :
 MDL04 2.00PPB

Manual Integrations
 APPROVED

sam
 2/23/2018 5:52:40 PM

Quant Time: Feb 22 07:20:00 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	5.04	128	15131	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.88	114	87364	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	81252	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.09	65	34453	29.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.07%
60) 4-Bromofluorobenzene	11.15	95	39421	29.66	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.87%
63) Toluene-d8	8.73	98	108451	31.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.87%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	2087	2.22	ug/l	88
3) Chloromethane	1.32	50	2162	2.30	ug/l	96
4) Vinyl Chloride	1.40	62	2534	2.26	ug/l	96
5) Bromomethane	1.65	94	2221	2.15	ug/l	96
6) Chloroethane	1.73	64	1875	2.62	ug/l	93
7) Trichlorofluoromethane	1.93	101	4277	2.20	ug/l	98
8) Diethyl Ether	2.20	74	1554	2.29	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2355	2.22	ug/l	99
10) 1,1-Dichloroethene	2.38	96	2225	2.20	ug/l	96
11) Methyl Iodide	2.52	142	1745	1.78	ug/l	98
12) Methyl Acetate	2.79	43	2440	1.35	ug/l	92
13) Acrolein	2.31	56	1585	7.29	ug/l	93
14) Acrylonitrile	3.16	53	3067	3.92	ug/l	97
15) Acetone	2.46	58	1176	4.61	ug/l	92
16) Carbon Disulfide	2.57	76	6131	2.12	ug/l #	95
17) Allyl chloride	2.73	41	3098	1.80	ug/l	95
18) Methylene Chloride	2.87	84	2722	2.47	ug/l	87
19) trans-1,2-Dichloroethene	3.18	96	1806	1.64	ug/l	92
20) Diisopropyl ether	3.89	45	4979	1.83	ug/l	92
21) 1,1-Dichloroethane	3.70	63	3281m	1.83	ug/l	
22) cis-1,2-Dichloroethene	4.62	96	2098	2.05	ug/l	94
23) tert-Butyl Alcohol	3.10	59	1968m	4.40	ug/l	
24) Methyl tert-Butyl Ether	3.22	73	5674	1.63	ug/l	92
25) Chloroform	5.23	83	3606	2.03	ug/l #	82
26) Cyclohexane	5.59	56	2944	2.09	ug/l #	81
29) 1,1-Dichloropropene	5.82	75	2653	2.09	ug/l	89
30) 2-Butanone	4.73	43	4650	4.75	ug/l #	76
31) 2,2-Dichloropropane	4.60	77	2381	1.74	ug/l #	80
32) 1,1,1-Trichloroethane	5.51	97	3337	2.17	ug/l	91
33) Carbon Tetrachloride	5.81	117	2767	2.02	ug/l	97
34) Benzene	6.16	78	7921	2.16	ug/l	100
35) Methacrylonitrile	5.09	41	1326m	1.47	ug/l	
36) 1,2-Dichloroethane	6.21	62	3037	2.19	ug/l #	86
37) Trichloroethene	7.23	130	2239	2.07	ug/l #	79
38) Methylcyclohexane	7.47	83	3212	2.11	ug/l	98
39) 1,2-Dichloropropane	7.53	63	2015	2.20	ug/l	89
40) Dibromomethane	7.68	93	1331	1.89	ug/l	98

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

41) Bromodichloromethane	7.92	83	2667	1.99	ug/l	93
42) Vinyl Acetate	3.84	43	17713	7.10	ug/l	100
43) Ethyl Acetate	4.88	43	2162	1.26	ug/l #	90
44) Isopropyl Acetate	6.48	43	3692	1.46	ug/l	95
45) 1,4-Dioxane	7.78	88	515	16.22	ug/l #	90
46) Methyl methacrylate	7.80	41	1913	1.56	ug/l	95
47) n-amyl Acetate	10.91	43	3354	1.52	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	2917	1.87	ug/l #	83
49) cis-1,3-Dichloropropene	9.06	75	2500	1.65	ug/l #	84
50) 1,1,2-Trichloroethane	9.23	97	1942	1.88	ug/l	91
51) Ethyl methacrylate	9.20	69	2520	1.59	ug/l	92
52) 1,3-Dichloropropane	9.38	76	3154	1.90	ug/l	97
53) Dibromochloromethane	9.59	129	1986	1.73	ug/l	97
54) 1,2-Dibromoethane	9.68	107	1944	1.69	ug/l	98
55) 2-Chloroethyl vinyl ether	8.33	63	6002	8.68	ug/l	98
56) Bromoform	10.87	173	1305	1.40	ug/l #	94
58) 4-Methyl-2-Pentanone	8.66	43	11318	6.36	ug/l	97
59) 2-Hexanone	9.51	43	7527	4.99	ug/l	98
61) Tetrachloroethene	9.35	164	2343	2.37	ug/l	93
62) Toluene	8.80	91	9232	2.18	ug/l	96
64) Chlorobenzene	10.15	112	5805	2.03	ug/l	94
65) 1,1,1,2-Tetrachloroethane	10.23	131	1896	1.87	ug/l	99
66) Ethyl Benzene	10.26	91	10110	2.10	ug/l	98
67) m/p-Xylenes	10.37	106	7631	4.03	ug/l	97
68) o-Xylene	10.71	106	3711	2.02	ug/l	97
69) Styrene	10.73	104	5866	1.93	ug/l	95
70) Isopropylbenzene	11.03	105	10010	2.02	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.28	83	2478	1.45	ug/l	97
72) 1,2,3-Trichloropropane	11.30	75	2373m	1.55	ug/l	
73) Bromobenzene	11.26	156	2428	1.86	ug/l	90
74) n-propylbenzene	11.37	91	11445	1.97	ug/l	98
75) 2-Chlorotoluene	11.43	91	6909	2.06	ug/l	98
76) 1,3,5-Trimethylbenzene	11.52	105	7943	1.89	ug/l	70
77) t-1,4-Dichloro-2-butene	11.09	75	481	0.89	ug/l #	77
78) 4-Chlorotoluene	11.52	91	7478	1.86	ug/l	95
79) tert-butylbenzene	11.78	119	8100m	1.93	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	8607	2.00	ug/l	97
81) sec-Butylbenzene	11.96	105	10069	1.94	ug/l	96
82) p-Isopropyltoluene	12.07	119	8779	1.90	ug/l	99
83) 1,3-Dichlorobenzene	12.04	146	4639	1.87	ug/l	97
84) 1,4-Dichlorobenzene	12.11	146	4918	1.90	ug/l	99
85) n-Butylbenzene	12.40	91	8230	1.90	ug/l	99
86) Hexachloroethane	12.60	117	1216	1.58	ug/l	88
87) 1,2-Dichlorobenzene	12.40	146	4792	1.95	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.01	75	585	1.22	ug/l #	70
89) 1,2,4-Trichlorobenzene	13.65	180	3224	1.79	ug/l	96
90) Hexachlorobutadiene	13.79	225	1485	1.91	ug/l	89
91) Naphthalene	13.84	128	8807	1.40	ug/l	97
92) 1,2,3-Trichlorobenzene	14.03	180	3377	1.86	ug/l	98

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

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