

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001263.D
 Acq On : 30 Apr 2018 19:39
 Operator : JC/MD
 Sample : J2133-09 MDL 2.5PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2018

Manual Integrations
 APPROVED

MMDadoda
 5/2/2018 11:08:08 AM

Quant Time: May 01 09:24:53 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 01 09:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	33971	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	189369	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	175434	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	76848	31.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.53%
60) 4-Bromofluorobenzene	11.14	95	80017	27.22	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.73%
63) Toluene-d8	8.72	98	228629	30.39	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	4095	1.84	ug/l	93
3) Chloromethane	1.32	50	5358	2.58	ug/l	95
4) Vinyl Chloride	1.40	62	5264	2.41	ug/l	93
5) Bromomethane	1.65	94	4953	3.01	ug/l	93
6) Chloroethane	1.73	64	3449	2.59	ug/l #	84
7) Trichlorofluoromethane	1.93	101	8926	2.46	ug/l	94
8) Diethyl Ether	2.19	74	3262	2.59	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	2.39	101	5172	2.52	ug/l	91
10) 1,1-Dichloroethene	2.38	96	4892	2.63	ug/l	85
11) Methyl Iodide	2.51	142	3830	1.69	ug/l	93
12) Methyl Acetate	2.78	43	6977	2.85	ug/l	99
13) Acrolein	2.29	56	4747	16.27	ug/l	92
14) Acrylonitrile	3.15	53	14415	14.80	ug/l	99
15) Acetone	2.45	58	4696	15.50	ug/l	99
16) Carbon Disulfide	2.57	76	11411	2.31	ug/l #	90
17) Allyl chloride	2.73	41	8536	2.59	ug/l	96
18) Methylene Chloride	2.86	84	5695	2.81	ug/l	95
19) trans-1,2-Dichloroethene	3.17	96	5465	2.72	ug/l	96
20) Diisopropyl ether	3.88	45	15605	2.40	ug/l #	96
21) 1,1-Dichloroethane	3.70	63	8952	2.56	ug/l	96
22) cis-1,2-Dichloroethene	4.60	96	5601	2.50	ug/l	93
23) tert-Butyl Alcohol	3.07	59	6470	16.26	ug/l #	99
24) Methyl tert-Butyl Ether	3.21	73	17450	2.73	ug/l #	86
25) Chloroform	5.22	83	9278	2.44	ug/l	99
26) Cyclohexane	5.57	56	7754	2.44	ug/l #	91
29) 1,1-Dichloropropene	5.81	75	6913	2.46	ug/l	88
30) 2-Butanone	4.71	43	20714	14.41	ug/l #	94
31) 2,2-Dichloropropane	4.59	77	6776	2.21	ug/l #	89
32) 1,1,1-Trichloroethane	5.51	97	7867	2.32	ug/l #	88
33) Carbon Tetrachloride	5.79	117	6491	2.12	ug/l	96
34) Benzene	6.15	78	20264	2.44	ug/l	99
35) Methacrylonitrile	5.07	41	4317	2.71	ug/l	82
36) 1,2-Dichloroethane	6.21	62	8453	2.65	ug/l	97
37) Trichloroethene	7.22	130	6214	2.47	ug/l	98
38) Methylcyclohexane	7.47	83	7803	2.36	ug/l	95
39) 1,2-Dichloropropane	7.52	63	5301	2.51	ug/l	98
40) Dibromomethane	7.67	93	3612	2.44	ug/l	85

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

41) Bromodichloromethane	7.90	83	6196	2.21	ug/l #	95
42) Vinyl Acetate	3.83	43	64862	11.47	ug/l	98
43) Ethyl Acetate	4.87	43	8122	2.93	ug/l #	72
44) Isopropyl Acetate	6.48	43	11365	2.41	ug/l	99
45) 1,4-Dioxane	7.76	88	2623	61.25	ug/l	93
46) Methyl methacrylate	7.79	41	6089	2.48	ug/l	87
47) n-amyl Acetate	10.90	43	8303	1.84	ug/l	91
48) t-1,3-Dichloropropene	8.44	75	6309	1.91	ug/l	95
49) cis-1,3-Dichloropropene	9.05	75	5296	1.68	ug/l	90
50) 1,1,2-Trichloroethane	9.22	97	5329	2.42	ug/l	96
51) Ethyl methacrylate	9.19	69	6819	2.17	ug/l	93
52) 1,3-Dichloropropane	9.38	76	8726	2.45	ug/l	100
53) Dibromochloromethane	9.59	129	4445	1.83	ug/l	92
54) 1,2-Dibromoethane	9.68	107	5336	2.26	ug/l	96
55) 2-Chloroethyl vinyl ether	8.32	63	16442	10.69	ug/l	100
56) Bromoform	10.86	173	3357	1.69	ug/l #	96
58) 4-Methyl-2-Pentanone	8.66	43	36415	12.51	ug/l	99
59) 2-Hexanone	9.51	43	27202	11.99	ug/l	96
61) Tetrachloroethene	9.34	164	6983	2.60	ug/l	90
62) Toluene	8.79	91	23198	2.46	ug/l	98
64) Chlorobenzene	10.14	112	15104	2.37	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	4815	2.07	ug/l	96
66) Ethyl Benzene	10.26	91	24377	2.32	ug/l	96
67) m/p-Xylenes	10.37	106	18546	4.44	ug/l	99
68) o-Xylene	10.70	106	9189	2.27	ug/l	97
69) Styrene	10.72	104	13644	2.03	ug/l	95
70) Isopropylbenzene	11.02	105	24728	2.25	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	7736	2.40	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	7371m	2.56	ug/l	
73) Bromobenzene	11.26	156	7621	2.39	ug/l	95
74) n-propylbenzene	11.37	91	27177	2.19	ug/l	99
75) 2-Chlorotoluene	11.43	91	16992	2.27	ug/l	96
76) 1,3,5-Trimethylbenzene	11.51	105	20053	2.14	ug/l	66
77) t-1,4-Dichloro-2-butene	11.08	75	1200	1.40	ug/l #	53
78) 4-Chlorotoluene	11.52	91	18847	2.11	ug/l	97
79) tert-butylbenzene	12.07	119	21219	2.12	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	20619	2.17	ug/l	96
81) sec-Butylbenzene	11.95	105	23737	2.19	ug/l	99
82) p-Isopropyltoluene	12.07	119	21219	2.12	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	13023	2.24	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	13297	2.24	ug/l	97
85) n-Butylbenzene	12.39	91	17289	2.00	ug/l	100
86) Hexachloroethane	12.60	117	2879	1.88	ug/l	79
87) 1,2-Dichlorobenzene	12.40	146	13204	2.28	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.01	75	1301	1.93	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	9245	2.11	ug/l	98
90) Hexachlorobutadiene	13.79	225	5050	2.48	ug/l	95
91) Naphthalene	13.84	128	24925	2.19	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	9741	2.25	ug/l	99

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

