

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071218\
 Data File : VX003350.D
 Acq On : 12 Jul 2018 14:43
 Operator : JC/MD
 Sample : J3762-07 LOD/MDL 2.5PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:35:52 AM

Quant Time: Jul 12 17:12:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 12 13:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	61868	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.86	114	316084	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	281995	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	127166	30.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.33%
60) 4-Bromofluorobenzene	11.14	95	129729	28.63	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.43%
63) Toluene-d8	8.72	98	385710	30.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	10174	2.166 ug/l	90
3) Chloromethane	1.32	50	12794	2.743 ug/l	94
4) Vinyl Chloride	1.40	62	12845	2.526 ug/l	97
5) Bromomethane	1.64	94	9528	4.519 ug/l	88
6) Chloroethane	1.73	64	8336	2.750 ug/l	98
7) Trichlorofluoromethane	1.93	101	18247	2.693 ug/l	99
8) Diethyl Ether	2.19	74	7433	2.683 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	11462	2.764 ug/l	96
10) 1,1-Dichloroethene	2.37	96	10516	2.733 ug/l	86
11) Methyl Iodide	2.51	142	6261	9.695 ug/l	91
12) Methyl Acetate	2.78	43	13189	2.111 ug/l	95
13) Acrolein	2.29	56	8516	17.542 ug/l	97
14) Acrylonitrile	3.15	53	29753	12.654 ug/l	98
15) Acetone	2.45	58	8137	13.201 ug/l	72
16) Carbon Disulfide	2.57	76	30811	2.803 ug/l	99
17) Allyl chloride	2.73	41	17915	2.447 ug/l	95
18) Methylene Chloride	2.85	84	13329	2.951 ug/l	89
19) trans-1,2-Dichloroethene	3.17	96	10795	2.601 ug/l	96
20) Diisopropyl ether	3.87	45	36262	2.742 ug/l	98
21) 1,1-Dichloroethane	3.70	63	21076	2.717 ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	11159	2.529 ug/l #	57
23) tert-Butyl Alcohol	3.07	59	12216	12.513 ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	32821	2.554 ug/l	92
25) Chloroform	5.21	83	18343	2.626 ug/l	99
26) Cyclohexane	5.57	56	15706	2.594 ug/l #	97
29) 1,1-Dichloropropene	5.79	75	13210	2.651 ug/l	96
30) 2-Butanone	4.70	43	33876	12.165 ug/l	94
31) 2,2-Dichloropropane	4.59	77	13231	2.458 ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	14979	2.655 ug/l	99
33) Carbon Tetrachloride	5.78	117	12399	2.504 ug/l	94
34) Benzene	6.15	78	39039	2.660 ug/l	95
35) Methacrylonitrile	5.07	41	7619	2.586 ug/l	93
36) 1,2-Dichloroethane	6.20	62	13715	2.687 ug/l #	95
37) Trichloroethene	7.21	130	10737	2.646 ug/l	94
38) Methylcyclohexane	7.46	83	13347	2.369 ug/l	99
39) 1,2-Dichloropropane	7.52	63	9569	2.523 ug/l	92
40) Dibromomethane	7.67	93	6465	2.596 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	10940	2.351	ug/l	90
42) Vinyl Acetate	3.82	43	146823	13.724	ug/l	97
43) Ethyl Acetate	4.86	43	13983m	2.644	ug/l	
44) Isopropyl Acetate	6.46	43	19247	2.374	ug/l	98
45) 1,4-Dioxane	7.76	88	4293	49.610	ug/l #	85
46) Methyl methacrylate	7.78	41	9844	2.348	ug/l	83
47) n-amyl Acetate	10.90	43	13385	1.917	ug/l #	88
48) t-1,3-Dichloropropene	8.44	75	12634	2.231	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	11220	2.188	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	9407	2.505	ug/l	97
51) Ethyl methacrylate	9.18	69	12162	2.222	ug/l	85
52) 1,3-Dichloropropane	9.37	76	15600	2.529	ug/l	98
53) Dibromochloromethane	9.59	129	8033	2.140	ug/l	98
54) 1,2-Dibromoethane	9.67	107	9549	2.452	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	30154	11.677	ug/l	99
56) Bromoform	10.86	173	5796	2.020	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	58642	11.674	ug/l	93
59) 2-Hexanone	9.50	43	42190	10.966	ug/l	95
61) Tetrachloroethene	9.34	164	11844	2.744	ug/l	98
62) Toluene	8.79	91	41193	2.677	ug/l	100
64) Chlorobenzene	10.14	112	26417	2.593	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	8131	2.250	ug/l	95
66) Ethyl Benzene	10.26	91	42275	2.487	ug/l	99
67) m/p-Xylenes	10.36	106	30929	4.675	ug/l	100
68) o-Xylene	10.70	106	14942	2.348	ug/l	95
69) Styrene	10.71	104	23862	2.255	ug/l	97
70) Isopropylbenzene	11.02	105	39644	2.349	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	12704	2.400	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	14042	2.268	ug/l	99
73) Bromobenzene	11.26	156	11534	2.459	ug/l	98
74) n-propylbenzene	11.36	91	46026	2.341	ug/l	100
75) 2-Chlorotoluene	11.42	91	29721	2.528	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	31780	2.225	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	2612	1.767	ug/l	70
78) 4-Chlorotoluene	11.51	91	32599	2.373	ug/l	98
79) tert-butylbenzene	12.07	119	32475	2.147	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	31557	2.175	ug/l	97
81) sec-Butylbenzene	11.95	105	37232	2.204	ug/l	99
82) p-Isopropyltoluene	12.07	119	32475	2.147	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	21143	2.432	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	21059	2.400	ug/l	99
85) n-Butylbenzene	12.39	91	26915	2.027	ug/l	99
86) Hexachloroethane	12.60	117	4476	2.010	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	20876	2.403	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	2122	1.930	ug/l	92
89) 1,2,4-Trichlorobenzene	13.65	180	14291	2.291	ug/l	95
90) Hexachlorobutadiene	13.79	225	6574	2.151	ug/l	98
91) Naphthalene	13.83	128	35062	1.949	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	13939	2.204	ug/l	98

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

