

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071020\
 Data File : VX017328.D
 Acq On : 10 Jul 2020 12:15
 Operator : JC/SP
 Sample : L3216-09 2.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Quant Time: Jul 11 00:56:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 09 12:25:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	63231	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	326463	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	315295	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	140357	30.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.93%
60) 4-Bromofluorobenzene	11.12	95	146133	27.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.57%
63) Toluene-d8	8.70	98	404903	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	7823	2.830	ug/l 97
3) Chloromethane	1.32	50	7345	2.494	ug/l 99
4) Vinyl Chloride	1.39	62	7444	2.453	ug/l 96
5) Bromomethane	1.63	94	6175	3.053	ug/l 87
6) Chloroethane	1.71	64	5142	2.563	ug/l 96
7) Trichlorofluoromethane	1.92	101	13578	2.519	ug/l 93
8) Diethyl Ether	2.17	74	4615	2.413	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	8087	2.744	ug/l 95
10) 1,1-Dichloroethene	2.36	96	7302	2.513	ug/l 95
11) Methyl Iodide	2.49	142	6114	1.787	ug/l 94
12) Methyl Acetate	2.75	43	10300	2.544	ug/l 94
13) Acrolein	2.28	56	5456	10.421	ug/l 88
14) Acrylonitrile	3.11	53	23559	12.897	ug/l 97
15) Acetone	2.42	58	5920	12.850	ug/l 96
16) Carbon Disulfide	2.55	76	17059	2.165	ug/l 98
17) Allyl chloride	2.71	41	13375	2.474	ug/l 96
18) Methylene Chloride	2.84	84	10358	2.894	ug/l 95
19) trans-1,2-Dichloroethene	3.14	96	8390	2.470	ug/l 94
20) Diisopropyl ether	3.82	45	26842	2.484	ug/l # 85
21) 1,1-Dichloroethane	3.67	63	16392	2.706	ug/l 97
22) cis-1,2-Dichloroethene	4.57	96	10152	2.619	ug/l 98
23) tert-Butyl Alcohol	3.01	59	9823	13.032	ug/l # 99
24) Methyl tert-Butyl Ether	3.17	73	27154	2.448	ug/l 99
25) Chloroform	5.18	83	17179	2.662	ug/l 91
26) Cyclohexane	5.55	56	10742	2.276	ug/l # 97
29) 1,1-Dichloropropene	5.76	75	11008	2.445	ug/l 96
30) 2-Butanone	4.64	43	30664	12.453	ug/l 98
31) 2,2-Dichloropropane	4.55	77	15103m	2.678	ug/l
32) 1,1,1-Trichloroethane	5.47	97	15883	2.710	ug/l # 83
33) Carbon Tetrachloride	5.76	117	13623	2.520	ug/l 98
34) Benzene	6.12	78	34374	2.566	ug/l 97
35) Methacrylonitrile	5.02	41	6958	2.524	ug/l 83
36) 1,2-Dichloroethane	6.16	62	13504	2.560	ug/l # 92
37) Trichloroethene	7.19	130	10154	2.520	ug/l 99
38) Methylcyclohexane	7.44	83	10813	2.279	ug/l 96
39) 1,2-Dichloropropane	7.49	63	8955	2.558	ug/l 99
40) Dibromomethane	7.65	93	6556	2.600	ug/l 99

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

41) Bromodichloromethane	7.88	83	13850	2.632	ug/l	93
42) Vinyl Acetate	3.79	43	105737	11.236	ug/l	100
43) Ethyl Acetate	4.81	43	12165	2.512	ug/l	100
44) Isopropyl Acetate	6.42	43	19661	2.440	ug/l	98
45) 1,4-Dioxane	7.72	88	3293	42.868	ug/l #	89
46) Methyl methacrylate	7.75	41	8558	2.180	ug/l	92
47) n-amyl Acetate	10.88	43	14224	1.993	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	13297	2.289	ug/l	100
49) cis-1,3-Dichloropropene	8.41	75	14891	2.449	ug/l	96
50) 1,1,2-Trichloroethane	9.20	97	9797	2.622	ug/l	98
51) Ethyl methacrylate	9.16	69	11681	2.146	ug/l	99
52) 1,3-Dichloropropane	9.35	76	14919	2.452	ug/l	95
53) Dibromochloromethane	9.57	129	10839	2.377	ug/l	95
54) 1,2-Dibromoethane	9.65	107	9768	2.445	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	34633	13.677	ug/l	99
56) Bromoform	10.84	173	8525	2.396	ug/l	96
58) 4-Methyl-2-Pentanone	8.62	43	58595	11.729	ug/l	98
59) 2-Hexanone	9.47	43	43394	11.394	ug/l	96
61) Tetrachloroethene	9.32	164	10747	2.676	ug/l	97
62) Toluene	8.76	91	36830	2.467	ug/l	98
64) Chlorobenzene	10.12	112	25569	2.568	ug/l	91
65) 1,1,1,2-Tetrachloroethane	10.20	131	10171	2.500	ug/l	97
66) Ethyl Benzene	10.24	91	37958	2.260	ug/l	97
67) m/p-Xylenes	10.34	106	28814	4.440	ug/l	98
68) o-Xylene	10.68	106	13051	2.116	ug/l	99
69) Styrene	10.70	104	22084	2.019	ug/l	98
70) Isopropylbenzene	11.00	105	36659	2.167	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	13191	2.487	ug/l	96
72) 1,2,3-Trichloropropane	11.28	75	13245m	2.542	ug/l	
73) Bromobenzene	11.24	156	11690	2.460	ug/l	97
74) n-propylbenzene	11.34	91	42633	2.176	ug/l	97
75) 2-Chlorotoluene	11.40	91	26599	2.227	ug/l	95
76) 1,3,5-Trimethylbenzene	11.49	105	30572	2.107	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	4121	2.074	ug/l	97
78) 4-Chlorotoluene	11.49	91	32780	2.315	ug/l	98
79) tert-butylbenzene	11.76	119	30735	2.183	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	29609	2.022	ug/l	100
81) sec-Butylbenzene	11.93	105	34014	2.096	ug/l	99
82) p-Isopropyltoluene	12.05	119	30011	1.955	ug/l	98
83) 1,3-Dichlorobenzene	12.01	146	19976	2.336	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	19295	2.230	ug/l	97
85) n-Butylbenzene	12.37	91	26233	2.023	ug/l	98
86) Hexachloroethane	12.58	117	6450	2.172	ug/l	98
87) 1,2-Dichlorobenzene	12.38	146	18748	2.292	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	3255	2.532	ug/l	95
89) 1,2,4-Trichlorobenzene	13.63	180	11796	2.127	ug/l	98
90) Hexachlorobutadiene	13.77	225	5916	2.659	ug/l	94
91) Naphthalene	13.82	128	31481	1.851	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	10993	1.993	ug/l	95

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

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