

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007928.D
 Acq On : 08 Mar 2019 13:50
 Operator : JC/SP
 Sample : K1560-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 LOD-MDL-WATER-01-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 12:01:45 PM

Quant Time: Mar 09 05:06:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	44992	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	238419	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	213121	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	90193	30.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.67%
60) 4-Bromofluorobenzene	11.13	95	98324	28.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.33%
63) Toluene-d8	8.71	98	289938	29.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	6406	2.398 ug/l	91
3) Chloromethane	1.33	50	8206	2.763 ug/l	98
4) Vinyl Chloride	1.41	62	7999	2.719 ug/l	99
5) Bromomethane	1.64	94	5010	3.416 ug/l	97
6) Chloroethane	1.73	64	5955m	3.466 ug/l	
7) Trichlorofluoromethane	1.93	101	10493	2.864 ug/l	100
8) Diethyl Ether	2.20	74	4469	2.369 ug/l	84
9) 1,1,2-Trichlorotrifluoroet	2.39	101	6486	2.355 ug/l	97
10) 1,1-Dichloroethene	2.38	96	6167	2.362 ug/l	93
11) Methyl Iodide	2.51	142	7809	1.911 ug/l	98
12) Methyl Acetate	2.78	43	12026	2.913 ug/l	100
13) Acrolein	2.30	56	6369	13.148 ug/l	99
14) Acrylonitrile	3.15	53	21833	12.456 ug/l	98
15) Acetone	2.45	58	6790	10.730 ug/l	97
16) Carbon Disulfide	2.57	76	19825	2.420 ug/l	99
17) Allyl chloride	2.73	41	12029	2.247 ug/l	92
18) Methylene Chloride	2.86	84	7678	2.581 ug/l	91
19) trans-1,2-Dichloroethene	3.17	96	6590	2.386 ug/l	96
20) Diisopropyl ether	3.87	45	23416	2.391 ug/l	90
21) 1,1-Dichloroethane	3.70	63	12945	2.431 ug/l	97
22) cis-1,2-Dichloroethene	4.60	96	7790	2.445 ug/l #	83
23) tert-Butyl Alcohol	3.07	59	9584	13.554 ug/l	100
24) Methyl tert-Butyl Ether	3.21	73	20939	2.333 ug/l	99
25) Chloroform	5.21	83	12148	2.417 ug/l	93
26) Cyclohexane	5.58	56	10794	2.193 ug/l #	92
29) 1,1-Dichloropropene	5.80	75	9237	2.443 ug/l	94
30) 2-Butanone	4.70	43	29759	11.672 ug/l #	94
31) 2,2-Dichloropropane	4.59	77	7764	2.224 ug/l #	80
32) 1,1,1-Trichloroethane	5.49	97	9486	2.321 ug/l	97
33) Carbon Tetrachloride	5.79	117	7976	2.200 ug/l	94
34) Benzene	6.14	78	28134	2.428 ug/l	99
35) Methacrylonitrile	5.06	41	6382	2.569 ug/l	89
36) 1,2-Dichloroethane	6.20	62	9784	2.596 ug/l #	87
37) Trichloroethene	7.21	130	7662	2.441 ug/l	91
38) Methylcyclohexane	7.46	83	10536	2.192 ug/l	92
39) 1,2-Dichloropropane	7.52	63	7372	2.440 ug/l	95
40) Dibromomethane	7.66	93	4803	2.506 ug/l	96

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

41) Bromodichloromethane	7.90	83	8288	2.288	ug/l	96
42) Vinyl Acetate	3.82	43	93242	11.297	ug/l	96
43) Ethyl Acetate	4.85	43	11398	2.566	ug/l #	83
44) Isopropyl Acetate	6.46	43	15710	2.318	ug/l	100
45) 1,4-Dioxane	7.75	88	3443	48.564	ug/l #	81
46) Methyl methacrylate	7.77	41	8110	2.276	ug/l	94
47) n-amyl Acetate	10.90	43	12250	2.098	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	7597	1.936	ug/l	98
49) cis-1,3-Dichloropropene	8.44	75	8912	2.006	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	7223	2.473	ug/l	96
51) Ethyl methacrylate	9.18	69	9747	2.200	ug/l	92
52) 1,3-Dichloropropane	9.37	76	11840	2.453	ug/l	99
53) Dibromochloromethane	9.59	129	6407	2.132	ug/l	97
54) 1,2-Dibromoethane	9.67	107	7088	2.321	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	25327	12.292	ug/l	98
56) Bromoform	10.85	173	4887	2.039	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	50342	11.473	ug/l	99
59) 2-Hexanone	9.49	43	36582	10.562	ug/l	99
61) Tetrachloroethene	9.34	164	7844	2.523	ug/l	95
62) Toluene	8.78	91	30283	2.433	ug/l	99
64) Chlorobenzene	10.13	112	19353	2.440	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	6379	2.246	ug/l	97
66) Ethyl Benzene	10.25	91	30331	2.269	ug/l	97
67) m/p-Xylenes	10.36	106	22588	4.407	ug/l	96
68) o-Xylene	10.70	106	11087	2.228	ug/l	98
69) Styrene	10.71	104	17516	2.136	ug/l	100
70) Isopropylbenzene	11.02	105	29317	2.204	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	10741	2.445	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	9824m	2.373	ug/l	
73) Bromobenzene	11.26	156	8319	2.353	ug/l	93
74) n-propylbenzene	11.36	91	32186	2.145	ug/l	98
75) 2-Chlorotoluene	11.42	91	20684	2.300	ug/l	96
76) 1,3,5-Trimethylbenzene	11.51	105	23661	2.147	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	2221	1.736	ug/l	92
78) 4-Chlorotoluene	11.51	91	22512	2.214	ug/l	96
79) tert-butylbenzene	12.06	119	24517	2.073	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	23784	2.126	ug/l	98
81) sec-Butylbenzene	11.94	105	28386	2.143	ug/l	99
82) p-Isopropyltoluene	12.06	119	24517	2.073	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	14205	2.257	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	14102	2.239	ug/l	98
85) n-Butylbenzene	12.38	91	19400	1.918	ug/l	98
86) Hexachloroethane	12.60	117	3764	1.953	ug/l	84
87) 1,2-Dichlorobenzene	12.39	146	14373	2.310	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	1877	2.092	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	8646	1.934	ug/l	95
90) Hexachlorobutadiene	13.78	225	5279	2.141	ug/l	97
91) Naphthalene	13.83	128	24548	1.915	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	9019	2.029	ug/l	97

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

