

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009306.D
 Acq On : 03 May 2019 12:43
 Operator : JC/SP
 Sample : VX0503WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0503WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/6/2019 9:28:39 AM

Quant Time: May 04 03:28:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	30098	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	174162	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	153846	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	74155	29.70	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.00%
60) 4-Bromofluorobenzene	11.13	95	76861	29.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.00%
63) Toluene-d8	8.71	98	219822	30.14	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	31204	19.511	ug/l 99
3) Chloromethane	1.32	50	43975	20.456	ug/l 99
4) Vinyl Chloride	1.41	62	43296	20.189	ug/l 98
5) Bromomethane	1.64	94	24767	18.219	ug/l 98
6) Chloroethane	1.72	64	27461	19.525	ug/l 99
7) Trichlorofluoromethane	1.93	101	54096	20.428	ug/l 99
8) Diethyl Ether	2.19	74	24932	20.276	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.39	101	33715	20.563	ug/l 98
10) 1,1-Dichloroethene	2.37	96	33092	20.101	ug/l 97
11) Methyl Iodide	2.51	142	35673	19.933	ug/l 99
12) Methyl Acetate	2.77	43	61477	19.826	ug/l 98
13) Acrolein	2.29	56	40505	95.240	ug/l 99
14) Acrylonitrile	3.14	53	136856	101.699	ug/l 99
15) Acetone	2.44	58	38442	99.496	ug/l 97
16) Carbon Disulfide	2.57	76	86443	19.407	ug/l 99
17) Allyl chloride	2.73	41	77607	19.636	ug/l 98
18) Methylene Chloride	2.85	84	40954	20.584	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	34986	19.932	ug/l 96
20) Diisopropyl ether	3.85	45	156899	20.159	ug/l 99
21) 1,1-Dichloroethane	3.70	63	75900	20.151	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	42218	19.968	ug/l 98
23) tert-Butyl Alcohol	3.04	59	55869	98.185	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	129599	20.116	ug/l 99
25) Chloroform	5.21	83	69985	20.361	ug/l 99
26) Cyclohexane	5.58	56	70943	20.209	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	51831	20.282	ug/l 99
30) 2-Butanone	4.67	43	205578	102.719	ug/l 100
31) 2,2-Dichloropropane	4.59	77	54108	19.206	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	56937	20.552	ug/l 98
33) Carbon Tetrachloride	5.78	117	46957	20.258	ug/l 97
34) Benzene	6.15	78	161759	20.531	ug/l 100
35) Methacrylonitrile	5.04	41	43811	20.923	ug/l 95
36) 1,2-Dichloroethane	6.20	62	59731	20.894	ug/l 100
37) Trichloroethene	7.21	130	38101	20.089	ug/l 93
38) Methylcyclohexane	7.46	83	62589	19.824	ug/l 100
39) 1,2-Dichloropropane	7.51	63	46504	20.727	ug/l 99
40) Dibromomethane	7.66	93	26234	20.602	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	52966	20.363	ug/l	97
42) Vinyl Acetate	3.81	43	691068	104.622	ug/l	100
43) Ethyl Acetate	4.83	43	76991	21.289	ug/l	99
44) Isopropyl Acetate	6.45	43	118050	20.150	ug/l	99
45) 1,4-Dioxane	7.74	88	23249	404.197	ug/l	97
46) Methyl methacrylate	7.77	41	58271	19.928	ug/l	97
47) n-amyl Acetate	10.90	43	104259	19.755	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	58930	19.417	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	66303	19.900	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	41038	21.035	ug/l	96
51) Ethyl methacrylate	9.18	69	71962	19.960	ug/l	98
52) 1,3-Dichloropropane	9.37	76	71110	20.537	ug/l	99
53) Dibromochloromethane	9.58	129	39653	20.408	ug/l	99
54) 1,2-Dibromoethane	9.67	107	40944	20.463	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	200735	104.487	ug/l	99
56) Bromoform	10.85	173	28878	19.362	ug/l #	98
58) 4-Methyl-2-Pentanone	8.64	43	393411	103.997	ug/l	99
59) 2-Hexanone	9.49	43	303788	102.386	ug/l	100
61) Tetrachloroethene	9.34	164	35324	20.828	ug/l	97
62) Toluene	8.78	91	172517	20.985	ug/l	99
64) Chlorobenzene	10.13	112	101345	20.484	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	36674	20.244	ug/l	99
66) Ethyl Benzene	10.25	91	187272	20.449	ug/l	97
67) m/p-Xylenes	10.36	106	135858	40.631	ug/l	100
68) o-Xylene	10.69	106	67603	20.562	ug/l	98
69) Styrene	10.71	104	116698	20.219	ug/l	99
70) Isopropylbenzene	11.02	105	180129	20.372	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	66596	20.565	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	58668m	21.024	ug/l	
73) Bromobenzene	11.26	156	44239	20.250	ug/l	99
74) n-propylbenzene	11.36	91	204565	19.964	ug/l	100
75) 2-Chlorotoluene	11.42	91	125805	20.470	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	151982	20.291	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	20539	18.246	ug/l	98
78) 4-Chlorotoluene	11.51	91	140933	20.190	ug/l	99
79) tert-butylbenzene	11.77	119	146624	20.250	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	151635	20.199	ug/l	100
81) sec-Butylbenzene	11.94	105	172438	20.045	ug/l	100
82) p-Isopropyltoluene	12.06	119	155065	19.816	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	76930	19.718	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	76349	19.642	ug/l	99
85) n-Butylbenzene	12.38	91	136384	19.047	ug/l	99
86) Hexachloroethane	12.59	117	25267	18.975	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	79167	20.158	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	14850	19.734	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	53798	19.219	ug/l	100
90) Hexachlorobutadiene	13.78	225	26988	19.301	ug/l	100
91) Naphthalene	13.83	128	187887	20.500	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	57560	20.228	ug/l	98

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

