

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021619\
 Data File : VX007565.D
 Acq On : 15 Feb 2019 13:58
 Operator : JC/SP
 Sample : VX0216WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0216WBS01

Manual Integrations
 APPROVED

MMDadoda
 2/18/2019 10:40:01 AM

Quant Time: Feb 16 03:58:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	77687	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	408747	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	364048	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	148687	29.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.63%
60) 4-Bromofluorobenzene	11.13	95	167271	29.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.80%
63) Toluene-d8	8.71	98	493653	30.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	81435	20.700	ug/l 98
3) Chloromethane	1.33	50	85568	19.791	ug/l 96
4) Vinyl Chloride	1.41	62	94221	19.374	ug/l 100
5) Bromomethane	1.64	94	81273	18.714	ug/l 99
6) Chloroethane	1.73	64	60794	18.390	ug/l 96
7) Trichlorofluoromethane	1.93	101	149483	19.608	ug/l 96
8) Diethyl Ether	2.19	74	58324	19.152	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	88585	20.596	ug/l 98
10) 1,1-Dichloroethene	2.38	96	83769	19.627	ug/l 100
11) Methyl Iodide	2.51	142	102649	16.734	ug/l 98
12) Methyl Acetate	2.78	43	110378	18.753	ug/l 99
13) Acrolein	2.30	56	94911	92.441	ug/l 99
14) Acrylonitrile	3.15	53	264147	97.400	ug/l 99
15) Acetone	2.45	58	76307	103.677	ug/l 96
16) Carbon Disulfide	2.57	76	218259	19.284	ug/l 97
17) Allyl chloride	2.73	41	142601	19.501	ug/l 98
18) Methylene Chloride	2.86	84	93893	19.562	ug/l 94
19) trans-1,2-Dichloroethene	3.17	96	87876	19.250	ug/l 97
20) Diisopropyl ether	3.87	45	271468	19.644	ug/l 98
21) 1,1-Dichloroethane	3.70	63	157393	20.315	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	102375	20.152	ug/l 99
23) tert-Butyl Alcohol	3.07	59	113461	99.538	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	286866	19.368	ug/l 99
25) Chloroform	5.21	83	160986	19.674	ug/l 95
26) Cyclohexane	5.57	56	134095	20.641	ug/l # 100
29) 1,1-Dichloropropene	5.80	75	116235	20.387	ug/l 98
30) 2-Butanone	4.70	43	357641	105.994	ug/l 99
31) 2,2-Dichloropropane	4.59	77	110178	23.785	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	137365	20.157	ug/l 99
33) Carbon Tetrachloride	5.78	117	120985	20.083	ug/l 95
34) Benzene	6.14	78	356072	19.810	ug/l 97
35) Methacrylonitrile	5.06	41	68761	19.600	ug/l 97
36) 1,2-Dichloroethane	6.20	62	123398	20.173	ug/l 99
37) Trichloroethene	7.22	130	104748	20.270	ug/l 95
38) Methylcyclohexane	7.46	83	138892	21.044	ug/l 99
39) 1,2-Dichloropropane	7.52	63	90703	20.288	ug/l 95
40) Dibromomethane	7.66	93	64001	19.821	ug/l 97

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

41) Bromodichloromethane	7.90	83	111404	19.442	ug/l	98
42) Vinyl Acetate	3.82	43	1219805	103.282	ug/l	100
43) Ethyl Acetate	4.85	43	130793	20.241	ug/l #	80
44) Isopropyl Acetate	6.46	43	200043	20.051	ug/l	100
45) 1,4-Dioxane	7.75	88	48312	410.322	ug/l	98
46) Methyl methacrylate	7.77	41	100859	19.964	ug/l	98
47) n-amyl Acetate	10.90	43	171243	19.474	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	115997	19.610	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	132607	20.131	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	95108	20.202	ug/l	98
51) Ethyl methacrylate	9.18	69	133308	19.531	ug/l	97
52) 1,3-Dichloropropane	9.37	76	153376	20.197	ug/l	100
53) Dibromochloromethane	9.58	129	94831	19.366	ug/l	99
54) 1,2-Dibromoethane	9.67	107	102384	19.860	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	343873	99.096	ug/l	99
56) Bromoform	10.85	173	69106	18.710	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	669860	102.297	ug/l	100
59) 2-Hexanone	9.49	43	513931	103.329	ug/l	100
61) Tetrachloroethene	9.34	164	104564	20.233	ug/l	97
62) Toluene	8.79	91	399735	20.162	ug/l	97
64) Chlorobenzene	10.13	112	254603	19.760	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	93077	19.944	ug/l	99
66) Ethyl Benzene	10.25	91	419906	19.958	ug/l	99
67) m/p-Xylenes	10.36	106	328415	39.797	ug/l	99
68) o-Xylene	10.69	106	162650	20.209	ug/l	96
69) Styrene	10.71	104	255457	19.669	ug/l	100
70) Isopropylbenzene	11.02	105	424015	19.969	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	141364	20.140	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	148776m	23.182	ug/l	
73) Bromobenzene	11.26	156	115929	19.998	ug/l	99
74) n-propylbenzene	11.36	91	471337	19.992	ug/l	100
75) 2-Chlorotoluene	11.42	91	279116	19.800	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	341925	19.727	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	34773	18.771	ug/l	95
78) 4-Chlorotoluene	11.51	91	316983	19.700	ug/l	100
79) tert-butylbenzene	12.06	119	366423	19.909	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	352342	20.025	ug/l	98
81) sec-Butylbenzene	11.94	105	413151	19.961	ug/l	99
82) p-Isopropyltoluene	12.06	119	366423	19.909	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	198026	19.431	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	199028	19.570	ug/l	99
85) n-Butylbenzene	12.39	91	301579	19.746	ug/l	99
86) Hexachloroethane	12.60	117	58595	19.176	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	200526	19.604	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	28725	19.610	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	130592	19.439	ug/l	100
90) Hexachlorobutadiene	13.78	225	65352	20.820	ug/l	98
91) Naphthalene	13.83	128	414195	19.332	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	133043	19.481	ug/l	99

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

