

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022219\
 Data File : VX007654.D
 Acq On : 22 Feb 2019 12:43
 Operator : JC/SP
 Sample : VX0222WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0222WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/25/2019 9:47:27 AM

Quant Time: Feb 22 13:09:10 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	70215	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	360505	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	330237	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	136842	30.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.43%
60) 4-Bromofluorobenzene	11.13	95	153654	30.32	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.07%
63) Toluene-d8	8.71	98	452224	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	73090	20.556 ug/l	98
3) Chloromethane	1.33	50	78125	19.992 ug/l	96
4) Vinyl Chloride	1.41	62	86055	19.578 ug/l	100
5) Bromomethane	1.64	94	70546	17.973 ug/l	98
6) Chloroethane	1.73	64	55024	18.416 ug/l	93
7) Trichlorofluoromethane	1.93	101	134322	19.495 ug/l	98
8) Diethyl Ether	2.19	74	52506	19.077 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.39	101	77951	20.052 ug/l	99
10) 1,1-Dichloroethene	2.38	96	74975	19.436 ug/l	91
11) Methyl Iodide	2.51	142	107081	19.314 ug/l	99
12) Methyl Acetate	2.78	43	95971	18.040 ug/l	97
13) Acrolein	2.29	56	63377	68.296 ug/l	98
14) Acrylonitrile	3.15	53	228404	93.182 ug/l	100
15) Acetone	2.45	58	63280	95.127 ug/l	96
16) Carbon Disulfide	2.57	76	191861	18.756 ug/l	98
17) Allyl chloride	2.73	41	120627	18.252 ug/l	98
18) Methylene Chloride	2.86	84	82619	19.045 ug/l	94
19) trans-1,2-Dichloroethene	3.17	96	79329	19.227 ug/l	95
20) Diisopropyl ether	3.87	45	241273	19.317 ug/l	95
21) 1,1-Dichloroethane	3.70	63	137186	19.591 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	89890	19.577 ug/l	99
23) tert-Butyl Alcohol	3.06	59	92266	89.557 ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	249282	18.622 ug/l	96
25) Chloroform	5.21	83	147155	19.898 ug/l	96
26) Cyclohexane	5.57	56	117853	20.071 ug/l #	99
29) 1,1-Dichloropropene	5.80	75	102903	20.463 ug/l	99
30) 2-Butanone	4.70	43	307686	103.392 ug/l	98
31) 2,2-Dichloropropane	4.59	77	96838	23.702 ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	125481	20.877 ug/l	99
33) Carbon Tetrachloride	5.78	117	107638	20.258 ug/l	97
34) Benzene	6.14	78	319745	20.170 ug/l	98
35) Methacrylonitrile	5.06	41	63900	20.652 ug/l	96
36) 1,2-Dichloroethane	6.20	62	111865	20.735 ug/l	99
37) Trichloroethene	7.21	130	95150	20.876 ug/l	94
38) Methylcyclohexane	7.46	83	123791	21.266 ug/l	99
39) 1,2-Dichloropropane	7.52	63	78672	19.952 ug/l	99
40) Dibromomethane	7.66	93	58087	20.397 ug/l	97

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

41) Bromodichloromethane	7.90	83	102271	20.236	ug/l	99
42) Vinyl Acetate	3.82	43	1044385	100.263	ug/l	99
43) Ethyl Acetate	4.85	43	115741	20.309	ug/l #	86
44) Isopropyl Acetate	6.46	43	174112	19.788	ug/l	99
45) 1,4-Dioxane	7.75	88	37604	362.116	ug/l	99
46) Methyl methacrylate	7.77	41	91205	20.469	ug/l	98
47) n-amyl Acetate	10.90	43	153227	19.757	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	104668	20.062	ug/l	98
49) cis-1,3-Dichloropropene	8.44	75	118807	20.450	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	88403	21.290	ug/l	92
51) Ethyl methacrylate	9.18	69	119251	19.810	ug/l	99
52) 1,3-Dichloropropane	9.37	76	138922	20.741	ug/l	100
53) Dibromochloromethane	9.58	129	87215	20.194	ug/l	97
54) 1,2-Dibromoethane	9.67	107	95088	20.913	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	311533	101.790	ug/l	99
56) Bromoform	10.85	173	64168	19.698	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	590869	99.473	ug/l	100
59) 2-Hexanone	9.49	43	453412	100.494	ug/l	99
61) Tetrachloroethene	9.34	164	94648	20.189	ug/l	97
62) Toluene	8.79	91	357765	19.892	ug/l	99
64) Chlorobenzene	10.14	112	232364	19.881	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	85259	20.140	ug/l	99
66) Ethyl Benzene	10.25	91	377376	19.773	ug/l	98
67) m/p-Xylenes	10.36	106	293236	39.172	ug/l	99
68) o-Xylene	10.70	106	145165	19.883	ug/l	98
69) Styrene	10.71	104	232288	19.716	ug/l	99
70) Isopropylbenzene	11.02	105	379362	19.696	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	130036	20.423	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	122550m	21.051	ug/l	
73) Bromobenzene	11.26	156	106450	20.243	ug/l	99
74) n-propylbenzene	11.36	91	423138	19.785	ug/l	99
75) 2-Chlorotoluene	11.42	91	250886	19.620	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	313919	19.966	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	32375	19.266	ug/l	93
78) 4-Chlorotoluene	11.51	91	284532	19.494	ug/l	99
79) tert-butylbenzene	12.06	119	327399	19.610	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	316798	19.849	ug/l	99
81) sec-Butylbenzene	11.94	105	372746	19.852	ug/l	99
82) p-Isopropyltoluene	12.06	119	327399	19.610	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	183212	19.818	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	180910	19.610	ug/l	98
85) n-Butylbenzene	12.39	91	268851	19.406	ug/l	99
86) Hexachloroethane	12.60	117	55089	19.874	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	187184	20.173	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	25337	19.068	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	118009	19.364	ug/l	99
90) Hexachlorobutadiene	13.78	225	58894	20.684	ug/l	100
91) Naphthalene	13.83	128	365830	18.822	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	120426	19.439	ug/l	98

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

