

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022219\
 Data File : VX007646.D
 Acq On : 22 Feb 2019 08:31
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 2/25/2019 9:47:12 AM

Quant Time: Feb 22 13:06:54 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	5.02	128	85621	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	454753	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	417497	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	168496	30.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.40%
60) 4-Bromofluorobenzene	11.13	95	201555	31.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.83%
63) Toluene-d8	8.71	98	565361	29.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	99196	22.878	ug/l 99
3) Chloromethane	1.33	50	105420	22.123	ug/l 97
4) Vinyl Chloride	1.41	62	111796	20.858	ug/l 100
5) Bromomethane	1.64	94	95374	19.926	ug/l 98
6) Chloroethane	1.73	64	69096	18.964	ug/l 98
7) Trichlorofluoromethane	1.93	101	174257	20.740	ug/l 98
8) Diethyl Ether	2.19	74	62282	18.557	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	102546	21.632	ug/l 98
10) 1,1-Dichloroethene	2.38	96	93353	19.846	ug/l 94
11) Methyl Iodide	2.51	142	144392	21.358	ug/l 96
12) Methyl Acetate	2.78	43	114133	17.594	ug/l 98
13) Acrolein	2.29	56	69566	61.477	ug/l 99
14) Acrylonitrile	3.15	53	274315	91.776	ug/l 99
15) Acetone	2.45	58	98429	121.342	ug/l 100
16) Carbon Disulfide	2.57	76	245677	19.695	ug/l 100
17) Allyl chloride	2.73	41	150505	18.675	ug/l 97
18) Methylene Chloride	2.86	84	103713	19.606	ug/l 93
19) trans-1,2-Dichloroethene	3.17	96	98898	19.657	ug/l 94
20) Diisopropyl ether	3.87	45	307518	20.191	ug/l 97
21) 1,1-Dichloroethane	3.70	63	174595	20.447	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	113797	20.325	ug/l 98
23) tert-Butyl Alcohol	3.06	59	116686	92.881	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	301647	18.479	ug/l 97
25) Chloroform	5.21	83	187974	20.844	ug/l 94
26) Cyclohexane	5.57	56	154684	21.604	ug/l # 100
29) 1,1-Dichloropropene	5.80	75	134589	21.218	ug/l 99
30) 2-Butanone	4.70	43	412234	109.814	ug/l 99
31) 2,2-Dichloropropane	4.59	77	136265	26.440	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	158535	20.910	ug/l 99
33) Carbon Tetrachloride	5.78	117	142995	21.335	ug/l 97
34) Benzene	6.14	78	410371	20.521	ug/l 99
35) Methacrylonitrile	5.06	41	76508	19.602	ug/l 97
36) 1,2-Dichloroethane	6.20	62	139818	20.545	ug/l 99
37) Trichloroethene	7.21	130	119944	20.862	ug/l 100
38) Methylcyclohexane	7.46	83	168193	22.905	ug/l 98
39) 1,2-Dichloropropane	7.51	63	100315	20.168	ug/l 99
40) Dibromomethane	7.66	93	75112	20.909	ug/l 98

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

41) Bromodichloromethane	7.90	83	132693	20.814	ug/l	100
42) Vinyl Acetate	3.82	43	1384713	105.384	ug/l	99
43) Ethyl Acetate	4.85	43	143932	20.021	ug/l #	85
44) Isopropyl Acetate	6.45	43	217304	19.578	ug/l	99
45) 1,4-Dioxane	7.74	88	53848	411.073	ug/l	97
46) Methyl methacrylate	7.77	41	115145	20.486	ug/l	98
47) n-amyl Acetate	10.90	43	204807	20.935	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	142875	21.710	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	159812	21.807	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	109368	20.880	ug/l	96
51) Ethyl methacrylate	9.18	69	153675	20.237	ug/l	99
52) 1,3-Dichloropropane	9.37	76	178010	21.069	ug/l	100
53) Dibromochloromethane	9.58	129	114318	20.984	ug/l	100
54) 1,2-Dibromoethane	9.67	107	120244	20.965	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	427637	110.767	ug/l	100
56) Bromoform	10.85	173	85879	20.899	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	755912	100.660	ug/l	100
59) 2-Hexanone	9.49	43	613516	107.559	ug/l	99
61) Tetrachloroethene	9.34	164	129734	21.890	ug/l	98
62) Toluene	8.78	91	468318	20.597	ug/l	98
64) Chlorobenzene	10.13	112	310427	21.009	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	110909	20.723	ug/l	99
66) Ethyl Benzene	10.25	91	509310	21.108	ug/l	100
67) m/p-Xylenes	10.36	106	403759	42.664	ug/l	100
68) o-Xylene	10.69	106	194532	21.076	ug/l	99
69) Styrene	10.71	104	318502	21.383	ug/l	99
70) Isopropylbenzene	11.02	105	526595	21.625	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	164291	20.410	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	162146m	22.031	ug/l	
73) Bromobenzene	11.26	156	142244	21.396	ug/l	99
74) n-propylbenzene	11.36	91	600499	22.210	ug/l	99
75) 2-Chlorotoluene	11.42	91	349714	21.632	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	438130	22.042	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	45695	21.509	ug/l	93
78) 4-Chlorotoluene	11.51	91	408125	22.117	ug/l	98
79) tert-butylbenzene	12.06	119	472419	22.382	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	442709	21.940	ug/l	99
81) sec-Butylbenzene	11.94	105	524326	22.089	ug/l	99
82) p-Isopropyltoluene	12.06	119	472419	22.382	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	262454	22.456	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	260195	22.309	ug/l	100
85) n-Butylbenzene	12.38	91	401294	22.912	ug/l	99
86) Hexachloroethane	12.60	117	75613	21.577	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	255751	21.802	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	34295	20.416	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	171227	22.224	ug/l	99
90) Hexachlorobutadiene	13.78	225	85862	23.853	ug/l	99
91) Naphthalene	13.83	128	509223	20.724	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	167006	21.324	ug/l	99

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

