

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007923.D
 Acq On : 08 Mar 2019 11:13
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 9:30:57 AM

Quant Time: Mar 08 12:34:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 11:10:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	43220	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	239743	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	207932	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	85330	30.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.53%
60) 4-Bromofluorobenzene	11.13	95	99625	30.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.40%
63) Toluene-d8	8.71	98	287325	30.26	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	250266	95.571	ug/l 100
3) Chloromethane	1.33	50	268738	89.535	ug/l 97
4) Vinyl Chloride	1.41	62	270876	93.080	ug/l 99
5) Bromomethane	1.64	94	124867	82.724	ug/l 98
6) Chloroethane	1.71	64	154871	88.743	ug/l 95
7) Trichlorofluoromethane	1.93	101	332135	90.536	ug/l 97
8) Diethyl Ether	2.19	74	184493	102.322	ug/l 89
9) 1,1,2-Trichlorotrifluoroet	2.39	101	263475	98.613	ug/l 98
10) 1,1-Dichloroethene	2.37	96	253755	101.557	ug/l 93
11) Methyl Iodide	2.51	142	411151	107.785	ug/l 93
12) Methyl Acetate	2.78	43	376598	91.362	ug/l 96
13) Acrolein	2.30	56	224872	477.508	ug/l 98
14) Acrylonitrile	3.15	53	833606	488.364	ug/l 100
15) Acetone	2.45	58	277178	421.141	ug/l 96
16) Carbon Disulfide	2.57	76	798177	102.135	ug/l 99
17) Allyl chloride	2.73	41	522554	102.256	ug/l 87
18) Methylene Chloride	2.86	84	277241	94.500	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	265062	99.536	ug/l 96
20) Diisopropyl ether	3.87	45	936524	98.806	ug/l 92
21) 1,1-Dichloroethane	3.70	63	512194	99.474	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	309509	101.320	ug/l 92
23) tert-Butyl Alcohol	3.08	59	337289m	488.852	ug/l
24) Methyl tert-Butyl Ether	3.21	73	866111	100.299	ug/l 95
25) Chloroform	5.22	83	480667	98.791	ug/l 97
26) Cyclohexane	5.57	56	482051	102.918	ug/l # 92
29) 1,1-Dichloropropene	5.80	75	380702	99.395	ug/l 96
30) 2-Butanone	4.70	43	1214805	450.580	ug/l 98
31) 2,2-Dichloropropane	4.59	77	361925	104.505	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	415459	101.150	ug/l 99
33) Carbon Tetrachloride	5.78	117	372539	103.033	ug/l 97
34) Benzene	6.14	78	1147275	96.607	ug/l 97
35) Methacrylonitrile	5.06	41	242569	94.790	ug/l 96
36) 1,2-Dichloroethane	6.20	62	366257	93.677	ug/l 99
37) Trichloroethene	7.21	130	311849	97.348	ug/l 94
38) Methylcyclohexane	7.46	83	489722	101.403	ug/l 96
39) 1,2-Dichloropropane	7.52	63	299362	96.994	ug/l 98
40) Dibromomethane	7.66	93	189809	96.889	ug/l 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	370789	102.248	ug/l	99
42) Vinyl Acetate	3.83	43	4163966	496.468	ug/l	97
43) Ethyl Acetate	4.85	43	434881	94.766	ug/l #	82
44) Isopropyl Acetate	6.46	43	687105	100.746	ug/l	98
45) 1,4-Dioxane	7.75	88	137750	1879.008	ug/l	93
46) Methyl methacrylate	7.77	41	357844	98.771	ug/l	91
47) n-amyl Acetate	10.90	43	580199	98.399	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	424026	112.893	ug/l	97
49) cis-1,3-Dichloropropene	8.44	75	467014	107.377	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	282414	92.817	ug/l	96
51) Ethyl methacrylate	9.18	69	446318	99.638	ug/l	95
52) 1,3-Dichloropropane	9.37	76	473866	95.114	ug/l	99
53) Dibromochloromethane	9.59	129	311461	104.400	ug/l	100
54) 1,2-Dibromoethane	9.67	107	301638	96.312	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	1038544	495.540	ug/l	98
56) Bromoform	10.86	173	247371	104.919	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	2107380	481.340	ug/l	99
59) 2-Hexanone	9.49	43	1628440	465.561	ug/l	99
61) Tetrachloroethene	9.34	164	294105	93.836	ug/l	97
62) Toluene	8.79	91	1217543	99.452	ug/l	100
64) Chlorobenzene	10.14	112	769704	98.060	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	285555	104.214	ug/l	99
66) Ethyl Benzene	10.25	91	1321902	101.226	ug/l	98
67) m/p-Xylenes	10.36	106	1011585	201.580	ug/l	98
68) o-Xylene	10.70	106	486992	99.729	ug/l	98
69) Styrene	10.71	104	808490	101.004	ug/l	99
70) Isopropylbenzene	11.02	105	1296955	98.943	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	415102	94.642	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	396786m	95.885	ug/l	
73) Bromobenzene	11.26	156	341513	97.802	ug/l	95
74) n-propylbenzene	11.36	91	1459504	98.905	ug/l	99
75) 2-Chlorotoluene	11.42	91	858944	96.046	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	1069267	98.568	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	138746	121.649	ug/l	84
78) 4-Chlorotoluene	11.51	91	994455	99.857	ug/l	96
79) tert-butylbenzene	12.06	119	1162420	100.616	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	1087726	98.956	ug/l	98
81) sec-Butylbenzene	11.94	105	1292337	99.457	ug/l	99
82) p-Isopropyltoluene	12.06	119	1162420	100.616	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	610866	98.941	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	608799	98.466	ug/l	98
85) n-Butylbenzene	12.39	91	1017494	105.379	ug/l	99
86) Hexachloroethane	12.60	117	197005	108.752	ug/l	82
87) 1,2-Dichlorobenzene	12.39	146	596932	97.222	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	90370	106.393	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	446425	104.576	ug/l	99
90) Hexachlorobutadiene	13.78	225	236605	97.408	ug/l	98
91) Naphthalene	13.83	128	1304827	107.568	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	441738	103.504	ug/l	99

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

