

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071218\
 Data File : VX003346.D
 Acq On : 12 Jul 2018 12:30
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Jul 12 13:11:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 12 13:04:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	56643	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	299671	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	288040	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	116030	26.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	89.40%
60) 4-Bromofluorobenzene	11.14	95	138061	29.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.73%
63) Toluene-d8	8.72	98	371416	29.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	433582	160.376	ug/l 98
3) Chloromethane	1.32	50	408431	139.161	ug/l 96
4) Vinyl Chloride	1.41	62	464739	142.114	ug/l 98
5) Bromomethane	1.64	94	174219	91.191	ug/l 100
6) Chloroethane	1.72	64	261278	118.800	ug/l 95
7) Trichlorofluoromethane	1.92	101	588532	101.250	ug/l 99
8) Diethyl Ether	2.19	74	242669	117.088	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	358337	107.709	ug/l 98
10) 1,1-Dichloroethene	2.37	96	336623	114.952	ug/l 95
11) Methyl Iodide	2.51	142	455564	135.086	ug/l 95
12) Methyl Acetate	2.78	43	560184	117.880	ug/l 95
13) Acrolein	2.29	56	204820	606.196	ug/l 99
14) Acrylonitrile	3.16	53	1033371	578.165	ug/l 98
15) Acetone	2.45	58	266302	536.041	ug/l 79
16) Carbon Disulfide	2.57	76	966716	131.846	ug/l 100
17) Allyl chloride	2.73	41	647115	111.049	ug/l 88
18) Methylene Chloride	2.86	84	378185	112.833	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	366578	116.744	ug/l 98
20) Diisopropyl ether	3.87	45	1191768	109.758	ug/l 98
21) 1,1-Dichloroethane	3.70	63	675806	115.746	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	411169	121.820	ug/l # 75
23) tert-Butyl Alcohol	3.09	59	425933	524.886	ug/l 100
24) Methyl tert-Butyl Ether	3.21	73	1145267	104.749	ug/l # 89
25) Chloroform	5.22	83	622596	106.257	ug/l 94
26) Cyclohexane	5.58	56	547450	110.364	ug/l # 95
29) 1,1-Dichloropropene	5.80	75	456536	112.811	ug/l 98
30) 2-Butanone	4.71	43	1305351	563.699	ug/l 93
31) 2,2-Dichloropropane	4.59	77	513507	118.727	ug/l 98
32) 1,1,1-Trichloroethane	5.50	97	528117	108.028	ug/l 98
33) Carbon Tetrachloride	5.79	117	464979	105.819	ug/l 97
34) Benzene	6.15	78	1369067	114.233	ug/l 98
35) Methacrylonitrile	5.07	41	277273	109.975	ug/l 91
36) 1,2-Dichloroethane	6.20	62	464924	98.808	ug/l 96
37) Trichloroethene	7.21	130	376571	107.280	ug/l 94
38) Methylcyclohexane	7.46	83	545045	110.702	ug/l 95
39) 1,2-Dichloropropane	7.52	63	360079	115.181	ug/l 97
40) Dibromomethane	7.67	93	233284	107.406	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	449111	110.076	ug/l	97
42) Vinyl Acetate	3.82	43	5003915	569.766	ug/l	97
43) Ethyl Acetate	4.87	43	498068	112.457	ug/l	96
44) Isopropyl Acetate	6.47	43	754972	101.737	ug/l	95
45) 1,4-Dioxane	7.76	88	164381	2261.148	ug/l #	83
46) Methyl methacrylate	7.78	41	408895	107.838	ug/l	89
47) n-amyl Acetate	10.90	43	704569	100.619	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	550546	114.939	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	509620	113.916	ug/l	93
50) 1,1,2-Trichloroethane	9.22	97	360554	112.541	ug/l	97
51) Ethyl methacrylate	9.18	69	545724	112.841	ug/l	86
52) 1,3-Dichloropropane	9.38	76	586195	112.021	ug/l	99
53) Dibromochloromethane	9.59	129	381603	112.199	ug/l	99
54) 1,2-Dibromoethane	9.68	107	377014	111.667	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	1336537	581.867	ug/l	99
56) Bromoform	10.86	173	291664	107.420	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	2463600	503.757	ug/l	93
59) 2-Hexanone	9.50	43	1927945	515.701	ug/l	92
61) Tetrachloroethene	9.34	164	421312	106.577	ug/l	99
62) Toluene	8.79	91	1490346	107.342	ug/l	99
64) Chlorobenzene	10.14	112	1019246	110.491	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	369819	109.373	ug/l	98
66) Ethyl Benzene	10.26	91	1741729	111.388	ug/l	100
67) m/p-Xylenes	10.36	106	1337071	220.038	ug/l	97
68) o-Xylene	10.70	106	641937	108.431	ug/l	96
69) Styrene	10.71	104	1061395	107.462	ug/l	97
70) Isopropylbenzene	11.02	105	1684247	103.171	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	518637	106.276	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	620418	146.656	ug/l	94
73) Bromobenzene	11.26	156	454106	100.027	ug/l	96
74) n-propylbenzene	11.37	91	1953895	103.106	ug/l	99
75) 2-Chlorotoluene	11.43	91	1153513	104.595	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	1426550	102.916	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	160883	118.243	ug/l	96
78) 4-Chlorotoluene	11.51	91	1369910	104.853	ug/l	98
79) tert-butylbenzene	12.07	119	1497518	97.955	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	1424906	100.670	ug/l	97
81) sec-Butylbenzene	11.95	105	1665411	98.219	ug/l	99
82) p-Isopropyltoluene	12.07	119	1497518	97.955	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	837776	100.281	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	846420	100.311	ug/l	99
85) n-Butylbenzene	12.39	91	1332243	98.311	ug/l	99
86) Hexachloroethane	12.60	117	232166	100.191	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	834357	98.895	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	113655	104.255	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	601899	94.516	ug/l	99
90) Hexachlorobutadiene	13.79	225	274927	82.926	ug/l	99
91) Naphthalene	13.83	128	1753224	103.865	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	593466	93.667	ug/l	100

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

