Boxplot of ARL<sub>1</sub> for Various Models on Streaming Data with z and alpha: z:1.6449 alpha:2.5, Mean Gap Size of 10, Data Variance of 1 (Outliers in in-control Period) 12  $ARL_1$ CTM (Z:1.6449, a:25, (0.15, 10))

CTM (Z:1.6449, a:2.5, (0.15, 10))

MC CTM (Z:1.6449, a:2.5, (0.1, 10)) CTM (Z:1,6449, 3:2.5, (0.1, 15)) WM (2:1.6449, a:2.5, (0.1, 20)) CTM (Z:1,6449, 3:2.5,10.1,201) WM (Z:1,6449,a:2.5,10.15,10)) WM (Z:1.6449, a:2.5, (0.15, 20)) WM (2:1.6449, a:2.5, (0.2, 15)) CTM (Z:1.6449,3:2.5,10.2,15)) TM (Z:1.6449,a:2.5,(0.1,15)) WM (2:1,6449, a:2.5, (0.1, 15)) TM (Z:1,6449, a:2.5, (0.15, 10)) CTM (z:1.6449, a:2.5, (0.15, 15)) TM (Z:1.6449, 2:2.5, (0.15, 20)) CTM (Z:1.6449, a:2.5, (0.15, 20)) WM (2:1,6449, a:2.5, (0.2, 10)) CTM (Z:1,6449,3:2.5,10.2,10)) SWM (Z.1.6449, 2.2.5,20) TM (Z:1.6449, a:2.5, (0.1, 20)) TM (Z:1.6449, 2:2.5, (0.2, 10)) TM (Z:1,6449,a:2.5,10.2,15)) Model (Parameters)