Boxplot of ARL₁ for Various Models on Streaming Data with z and alpha: z:2.5759 alpha:1, Mean Gap Size of 10, Data Variance of 1 (Outliers in in-control Period)

12

 ARL_1

CTM (2:2.5759, a:1, (0.15, 10))

CTM (2:2.5759, a:1, 30) CTM (Z:2.5759, a:1,10.1,201) CTM (2:2.5759, a:1, (0.15, 20)) CTM (2:2:5759, a:1, (0.1, 10)) SWM (2:2.5759, a:1,15) TM (Z:2.5759,3:1,(0.1, 15)) WM (z:2.5759,a:1,(0.1,15)) CTM (Z:2.5759, 2:1, (0.1, 15)) SWM (2:2:5759, a:1,20) TM (2:2.5759,3:1,(0.1,20)) WM (2:2.5759,a:1,10.1,201) TM (2:2.5759, a:1, (0.15, 10)) WM (Z:2.5759,a:1,(0.15,10)) WM (2:2.5759, 8:1, (0.15, 15)) CTM (2:2.5759, a:1, (0.15, 15)) WM (2:2.5759, a:1, (0.15, 20)) TM (2.2.5759, 3:1, (0.2, 10)) WM (Z:2.5759,a:1,(0.2,10)) CTM (Z:2:5759, a:1, (0.2, 10)) WM (2:2.5759,a:1,10.2,151) TM (2:2:5759, a:1, 10:15, 201) TM (Z:2.5759,3:1,10.2,151) Model (Parameters)