Boxplot of ARL₁ for Various Models on Streaming Data with z and alpha: z:1.96 alpha:1, Mean Gap Size of 5 (Outliers in out-of-control Period) CTM (z:1.96, a:1, (0.1, 15))
SWM (z:1.96, a:1, 20) CTM (z:1.96, a:1, (0.1, 201) WM (z:1.96,a:1,(0.1,10)) CTM (z:1.96,a:1,(0.1,10)) TM (Z:1,96,8:1,(0.1,15)) WW (x:1.98,a:1,(0.1,15)) TM (Z:1.96, a:1, (0.1, 20)) WM (2:1.96, a:1, (0.1, 20)) SWM (Z.1.96, a.1, 15)

20.0

17.5

15.0

12.5

7.5

ARL₁

CTM (Z:1.96,8:1,10.15,10)) CTM (Z:1.96,8:1,30) WM (Z:1.96, 2:1, (0.15, 20)) TM (Z:1.96, a:1, (0.15, 10)) WM (Z:1.96, a:1, (0.15, 10)) TM (Z:1.96,a:1,(0.15, 15)) WM (Z:1.96,8:1,(0.15, 15)) CTM (z:1,96,8:1,(0.15, 15)) TM (Z:1.96,a:1,10.15,201) TM (Z.1.96, 3.1, (0.2, 10)) WM (z:1:96, a:1, (0.2, 10)) TM (Z:1,96,3:1,(0.2,15)) WM (X:1.96, a:1, (0.2, 15)) CTM (z.1.96, a.1, (0.2, 15)) CTM (Z:1.96,3:1,(0.15,20)) CTM (Z:1.96.3:1,(0.2,10)) Model (Parameters)