Boxplot of ARL<sub>1</sub> for Various Models on Streaming Data with z and alpha: z:1.96 alpha:2.5, Mean Gap Size of 10, Data Variance of 4 (Outliers in in-control Period) CTM (2:1.96, a:2.5, (0.1, 20))
SWM (2:1.96, a:2.5, 25) CTM (Z:1.96, a:2.5, (0.15, 10)) (2:1.96, a:2.5, 30) CTM (Z:1.96, a:2.5, (0.1, 15))
SWM (Z:1.96, a:2.5, 20) CTM (2:1.96, a:2.5, (0.1, 10)) CTM (Z:1.96, a:2.5, (0.15, 15)) WM (2:1.96, 2:2.5, (0.15, 20)) CTM (2:1.96, a:2.5, (0.15, 20)) CTM (2:1.96, 2:2.5, (0.2, 15)) SWM (2:1.96.8:2.5,15) TM (Z:1.96, a:2.5, (0.1, 15)) WM (Z:1.96,8:25,(0.1.15)) WM (2:1.96, 2:2.5, (0:1, 20)) WM (Z:1.96,2:2.5,(0.15, 10)) TM (2.1.96, a.2.5, (0.2, 10)) WM (2:1,96,8:25,(0.1,10)) TM (Z:1.96,a:25,(0.1,20)) TM (2:1.96, 8:2.5, (0.15, 10)) TM (Z:1.96, a:2.5, (0.15, 20)) WM (Z:1.96,a:25,(0.2, 10)) CTM (Z:1.96,3:2.5,10.2,10)) TM (Z.1.96,a:2.5,(0.2, 15))

Model (Parameters)

ARL<sub>1</sub>