Boxplot of ARL<sub>1</sub> for Various Models on Streaming Data with z and alpha: z:1.96 alpha:1, Mean Gap Size of 5, Data Variance of 4 (Outliers in in-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, 20)) SWM (z.1.96, a.1, 25) CTM (z:1.96,a:1,(0:1,10)) TM (Z:1.96, a:1, (0.1, 15)) WM (z:1.96,a:1,(0.1,15)) TM (Z:1.96,3:1,(0.1,20)) WM (Z:1.96, a:1, (0.1, 20)) WW (x:1.96,a:1,(0.1,10)) SWM (Z:1.96,2.1,15)

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 $ARL_1^{}$ 

CTM (Z:1.96, 2:1, (0.15, 10)) (Z:1, 30) TM (Z:1.96,a:1,(0.15,20)) WM (Z:1.96, 2:1, (0.15, 20)) CTM (Z:1.96,3:1,(0.15,20)) WM (z:1.96,a:1,(0.2,10)) WM (Z:1.96, 8:1, (0.15, 15)) Model (Parameters)