Boxplot of ARL<sub>1</sub> for Various Models on Streaming Data with z and alpha: z:1.96 alpha:2, Mean Gap Size of 10, Data Variance of 1 (Outliers in out-of-control Period) 12  $ARL_1$ CTM (z:1.96, a:2, (0.1, 15))
SWM (z:1.96, a:2,20) CTM (Z:1.96, a:2, (0.15, 10)) a:2,30) CLW (5:1:36'9:5'(0:1'50)) CTM (z:1.96, a:2, (0:1, 10)) TM (Z:1,96,3:2,(0.1,15)) WM (z:1.96,a:2,(0.1, 15)) TM (Z:1,96,3:2,(0.1,20)) WM (Z:1.96, a:2, (0.1, 20)) CTM (Z:1.96,8:2,(0.15, 15)) TM (Z:1,96,a:2,10,15,20)) WM (Z:1,96,8:2,(0.15,20)) CTM (z:1,96,2:2,(0.15,20)) WM (2:1:96, a:2, (0.2, 10)) CTM (2:1.96, 3:2, (0.2, 10)) WM (2:1.96, a:2, (0.2, 15)) CTM (z.1.96, a.2, (0.2, 15)) TM (Z:1.96, 3:2, (0.2, 20)) WM (Z:1.96,a:2,(0.1,10)) SWM (2:1.96, a.2, 15) SWM (2.1.96, a.2, 25) WM (Z:1.96,8:2,(0.15, 10)) WM (Z:1.96, a:2, (0.15, 15)) TM (Z:1.96,3:2,(0.2,10)) TM (Z:1,96,3:2,(0.2,15)) Model (Parameters)