Components of Variation Measurement by Part 1.2 42 1.0 VarCompContr 0.8 4 Measurement 9.0 StudyVarContrib 40 9.4 ptRatio 39 0.2 0.0 totalRR repeatability reproducibility PartToPart В С D Ε component Part x Chart **Measurement by Operator** 42 42 -UCL = 41.06 4 4 $\overline{x} = 40.58$ -LCL = 40.1 40 4 33 39 Α В В Operator Operator R Chart **Interaction Operator:Part** -UCL = 0.83 42 perato 9.0 4 α 9.7 40 $\overline{R} = 0.26$ 0.2 2 B 39 0.0 -LCL = 0 В С D В Ε F G

Operator

Measurement

mean of Measurement

Part