

The slide features a decorative layout with teal lines. A vertical line on the left and a horizontal line at the top intersect at a small teal circle in the top-left corner. Another horizontal line is positioned below the title. A vertical line on the right and a horizontal line at the bottom intersect at a small teal circle in the bottom-right corner.

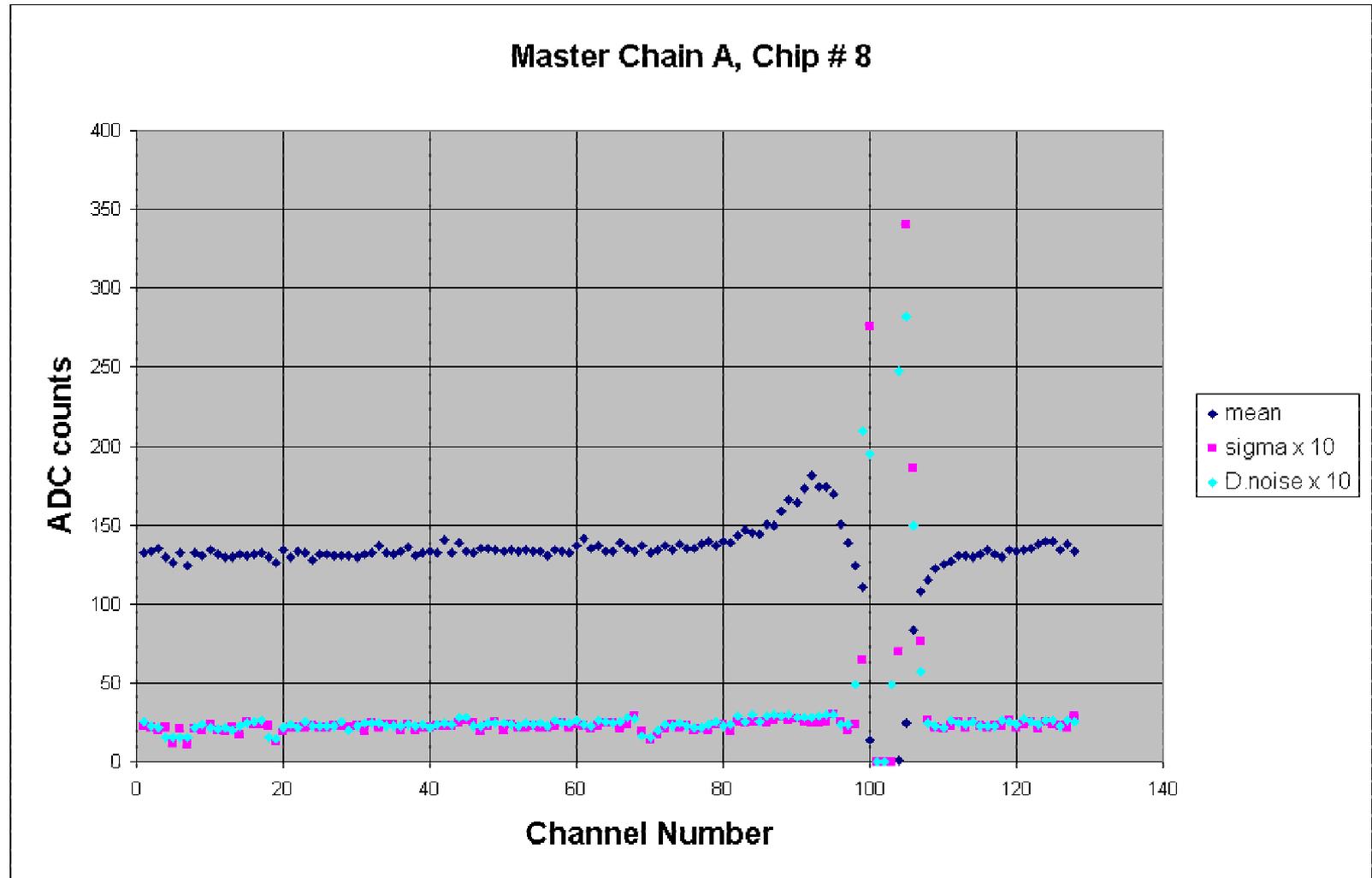
The Affect of Digital Jumper Cables on Sensors

By: Julia

Effects on the sensor readout

- The level of noise is increased
 - Localized effect
 - Cannot be isolated by masking, et al
 - Effects inversely proportional to distance from surface of sensor
- Hybrid #12 is a good example

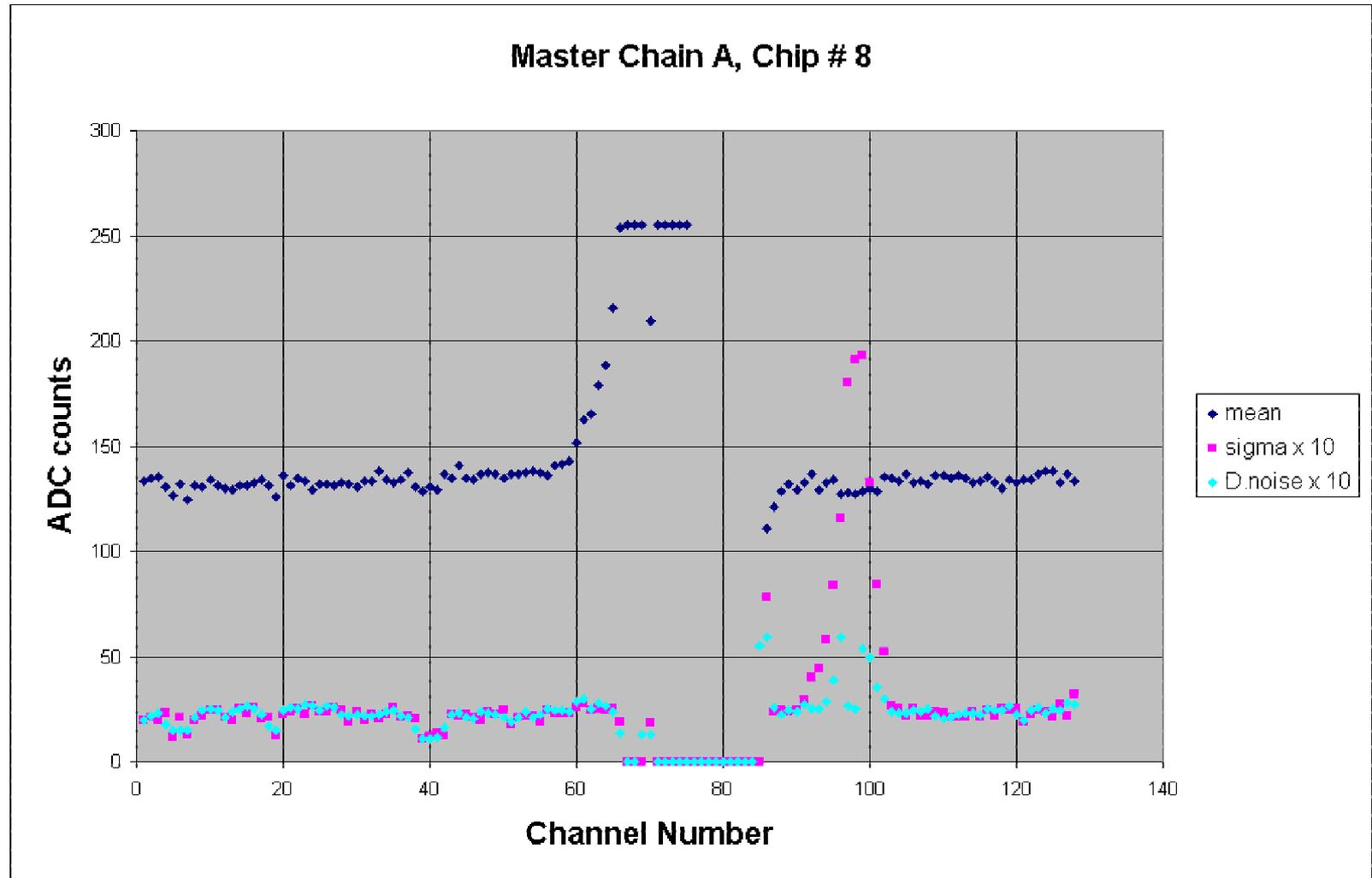
Hybrid #12, Chip 8



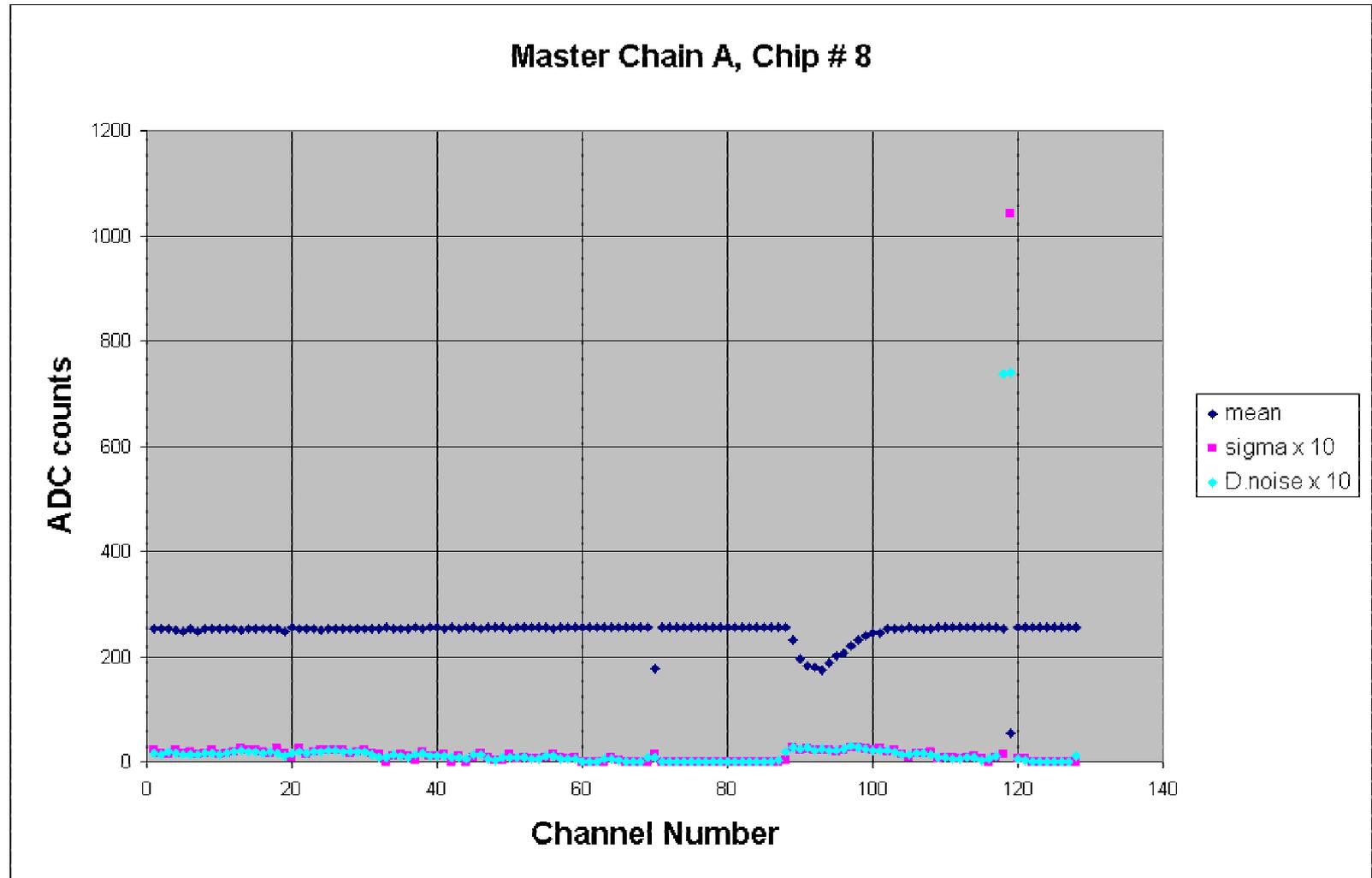
Tests to Run

- Change distance of cable from sensor
 - Increase distance
 - ◆ Noise problem should lessen
 - Decrease distance
 - ◆ Noise problem should increase
- Change *Pipeline* value on *Init_SVX4_Master*
 - Value different from *Cal pipe* should mask problem
- Switch from *Cal inject mode* to *Data mode*
 - Effect should be masked

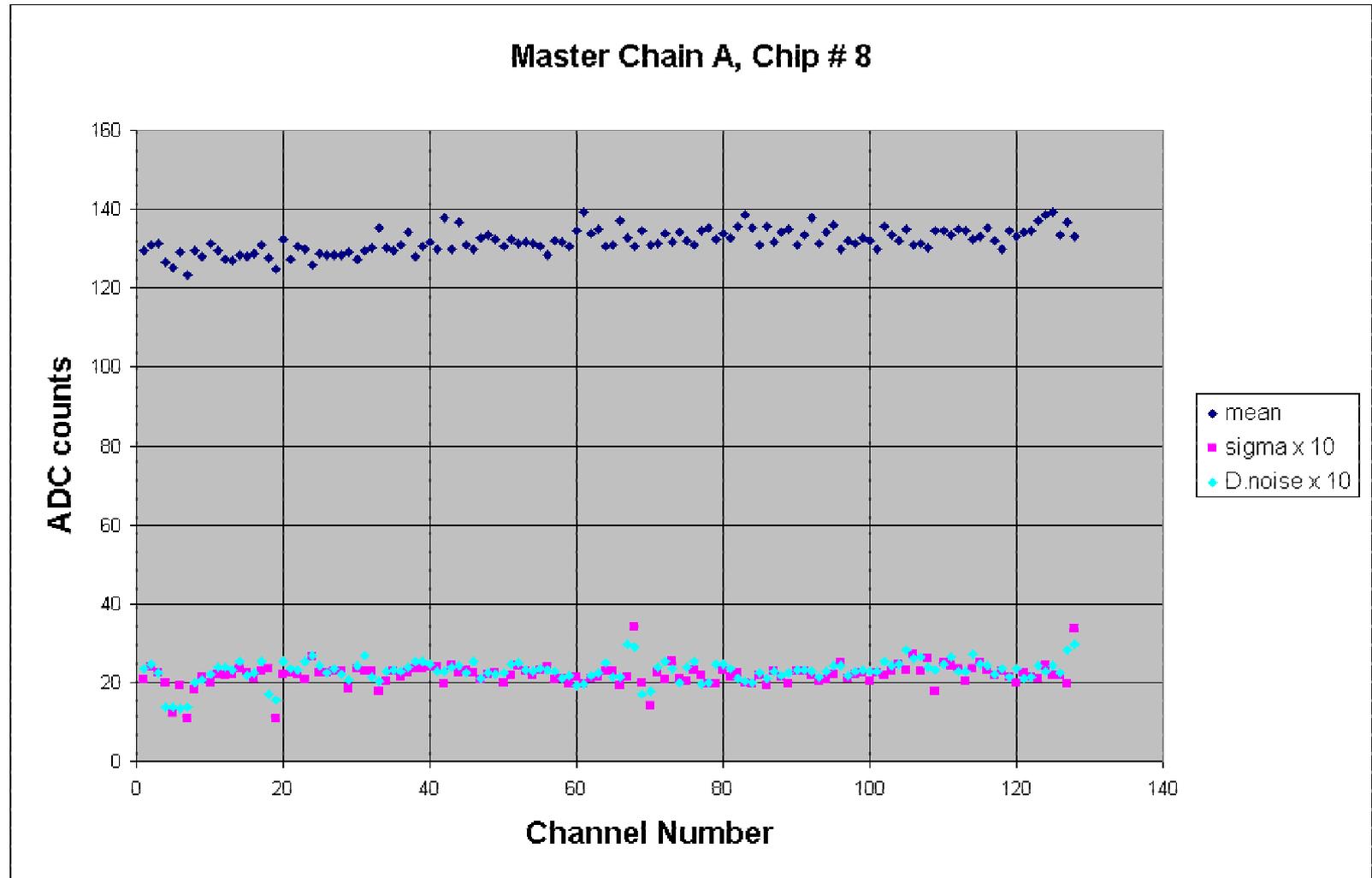
Cable held to sensor with foam pad of 0.75 in. width



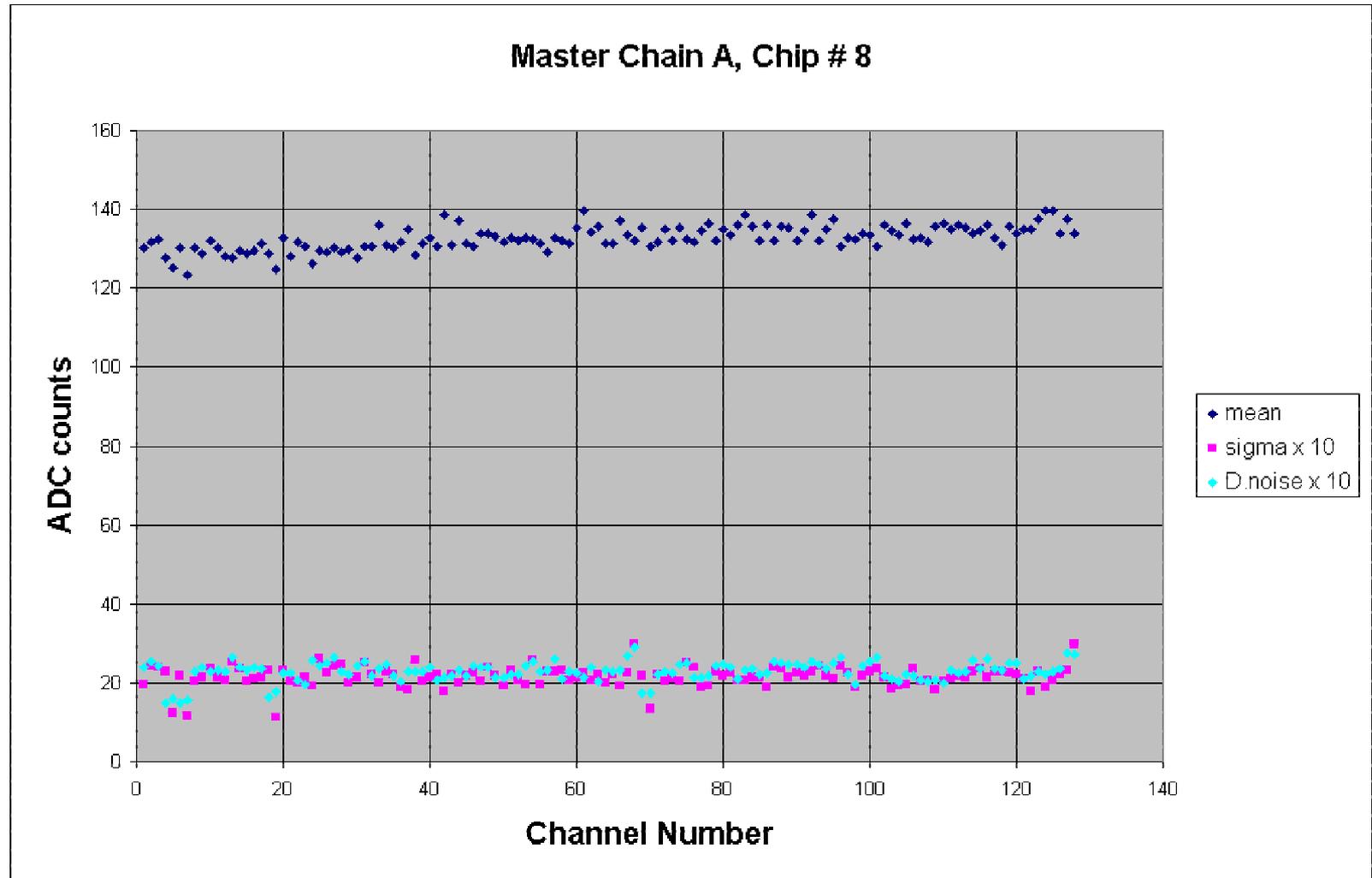
Cable held to sensor with foam pad of 0.375 in. width



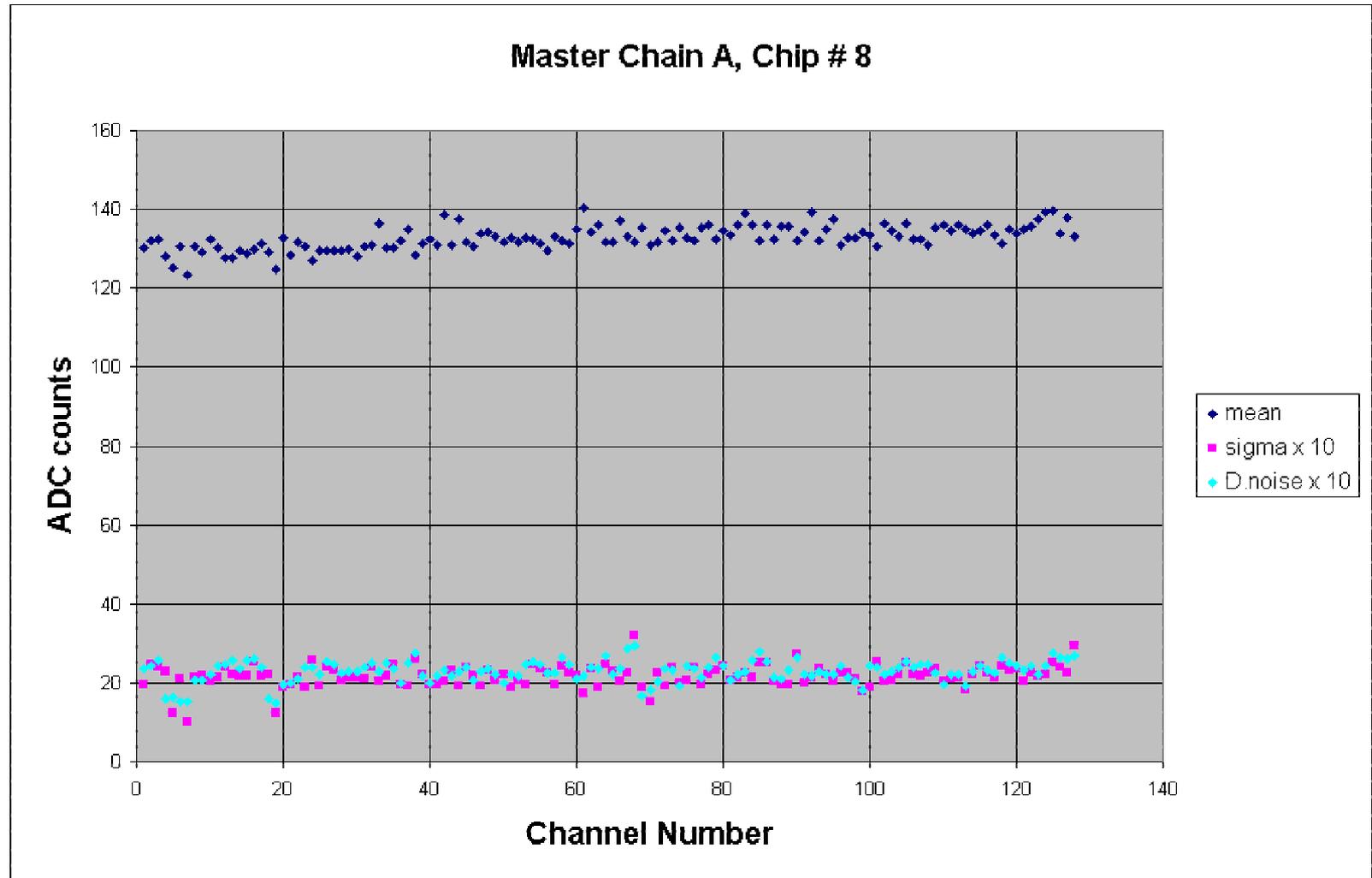
Cable held away from sensor with foam pad of 0.375 in. width



Pipeline value of 7 with Cal pipe value of 8



Pipeline value of 9 with Cal pipe value of 8



Data Mode

