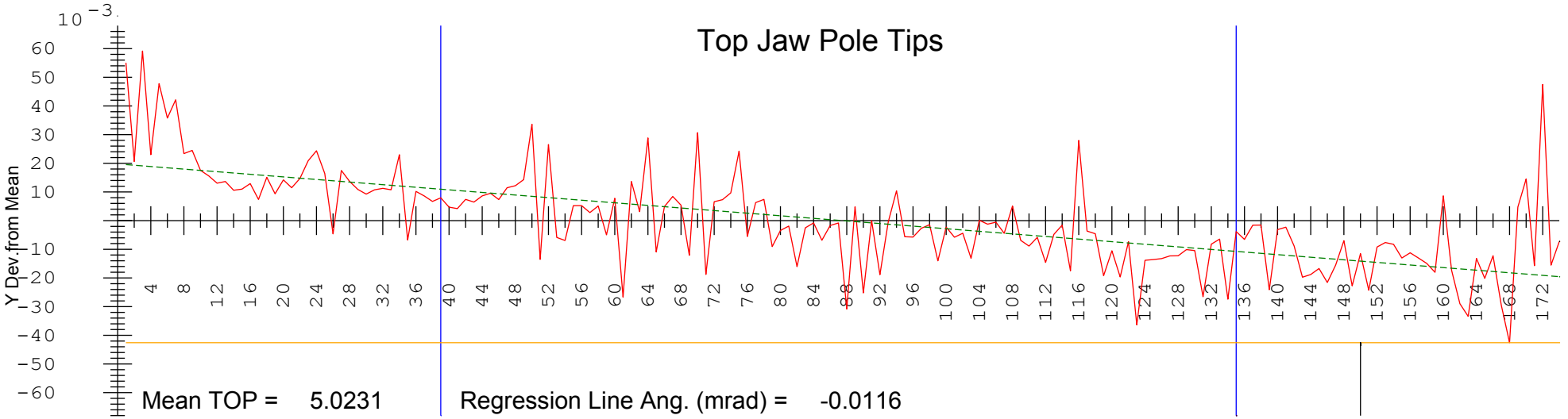
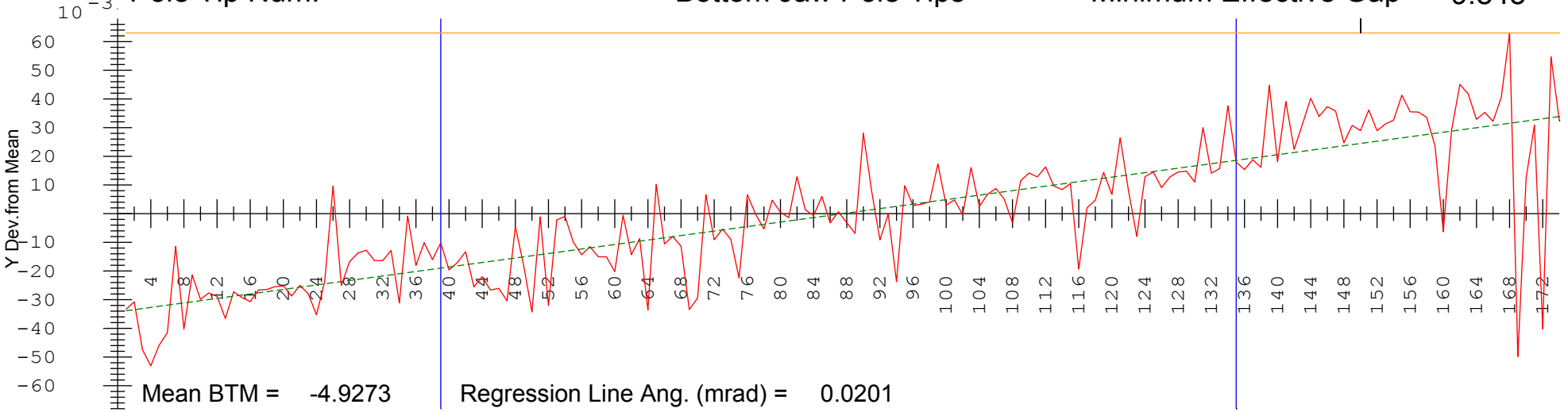


Pole Tip Num. ----> Minimum Effective Gap = 9.845



Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 1

Regression Line Through Points = ----------
Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

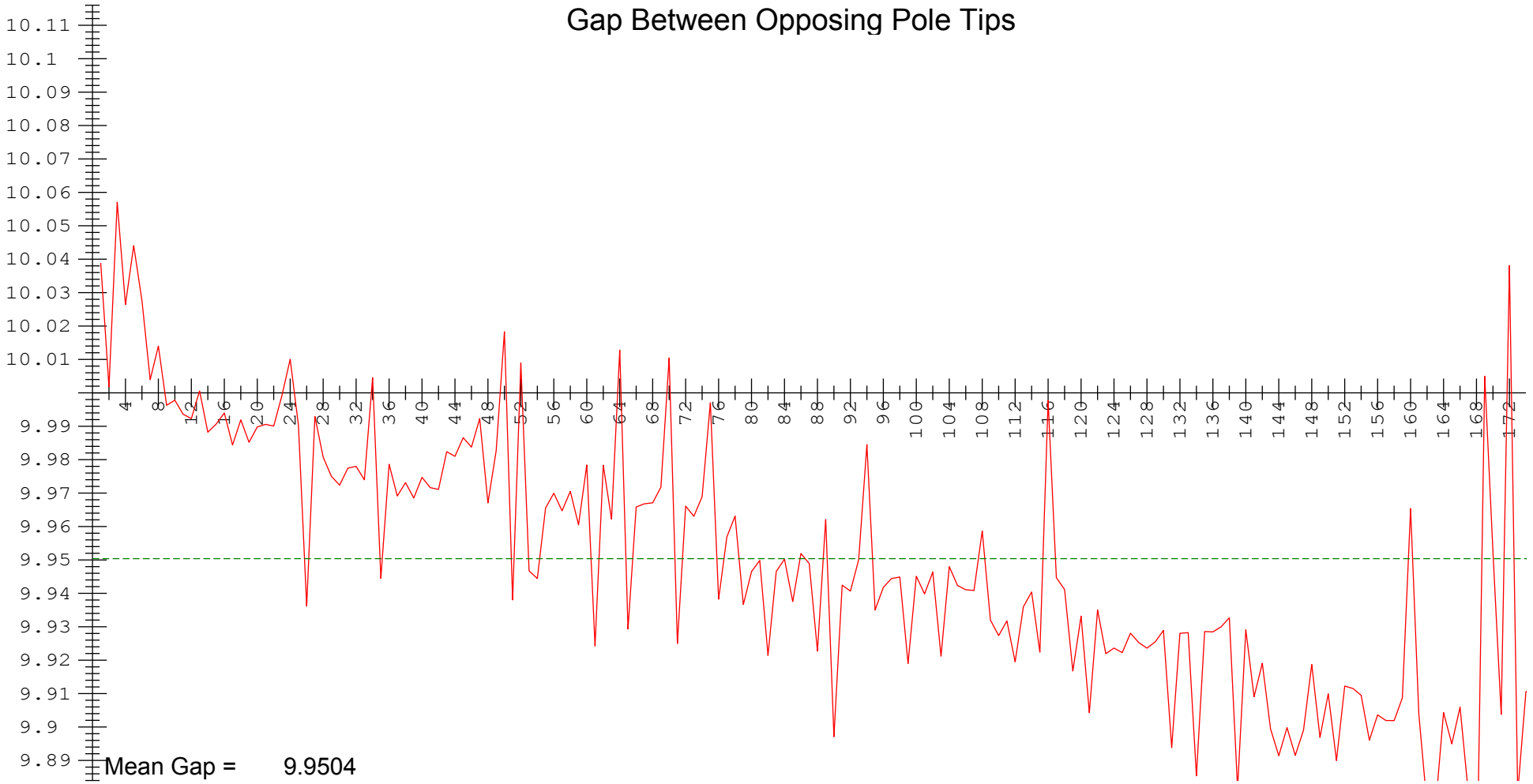
LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

20-JUN-2018
S/N = 011
D/S= 0001
Run= 16

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm

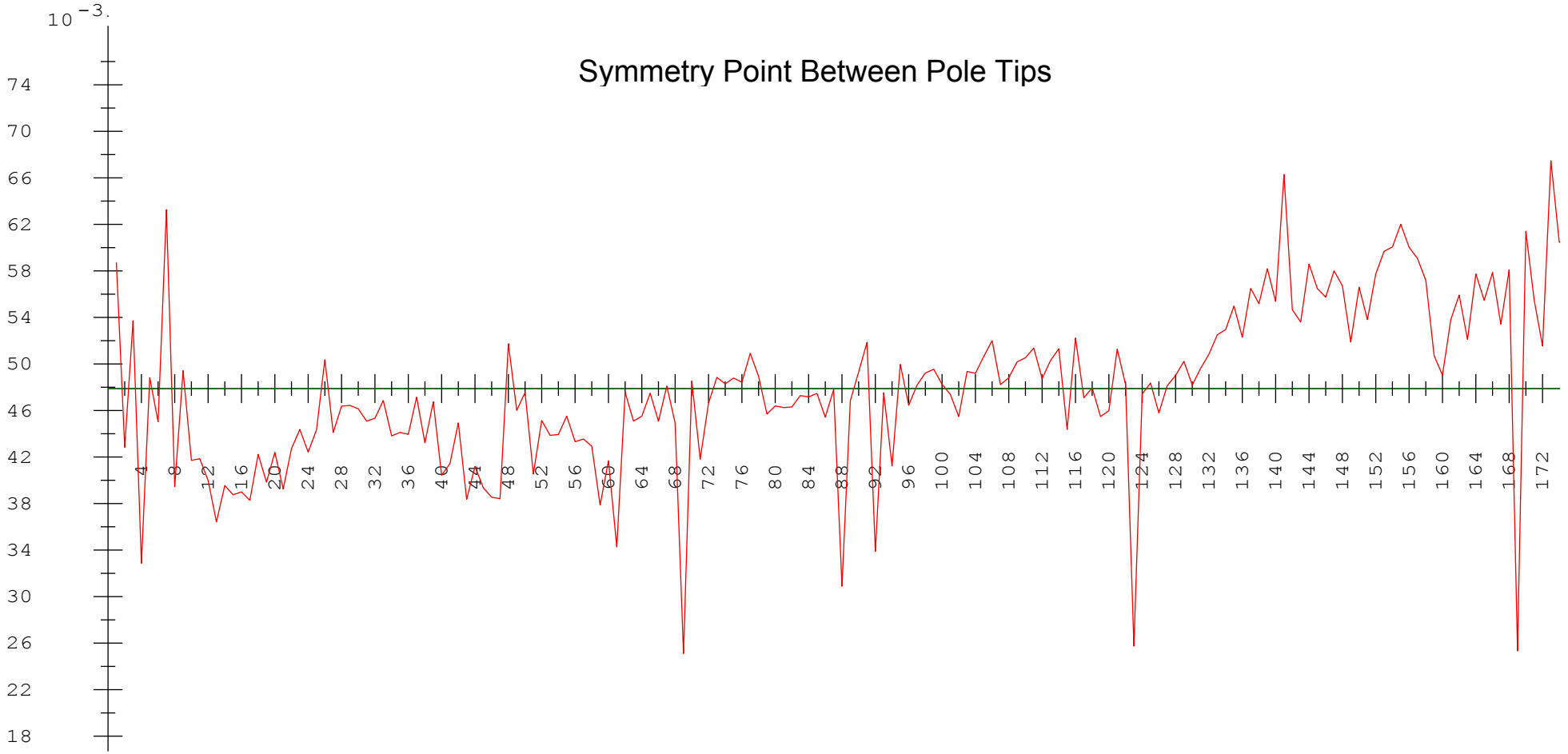
SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

20-JUN-2018
S/N = 011
D/S= 0001
Run= 16



Mean Symmetry Value = 0.0479

Step Between Measured Pole Tips = 1

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

20-JUN-2018
S/N = 011
D/S= 0001
Run= 16

Top and Bottom Jaw Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 39)	DS Actuator (Pole 135)	Last Pole (Pole 174)
Top	5.0426	5.0340	5.0123	5.0035
Bottom	-4.9612	-4.9463	-4.9087	-4.8934
Gap	10.0038			9.8970
Taper				-0.1068

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0231	-4.9273	9.9504	0.0479

Additional Calculated Values

Bottom Pole #1 Z Value	979.711
Top Jaw Pitch (mrad)	-0.012
Bottom Jaw Pitch(mrad)	0.020
Minimum Effective Gap	9.845
Reference Block Gap	6.803

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

20-JUN-2018
S/N = 011
D/S= 0001
Run= 16