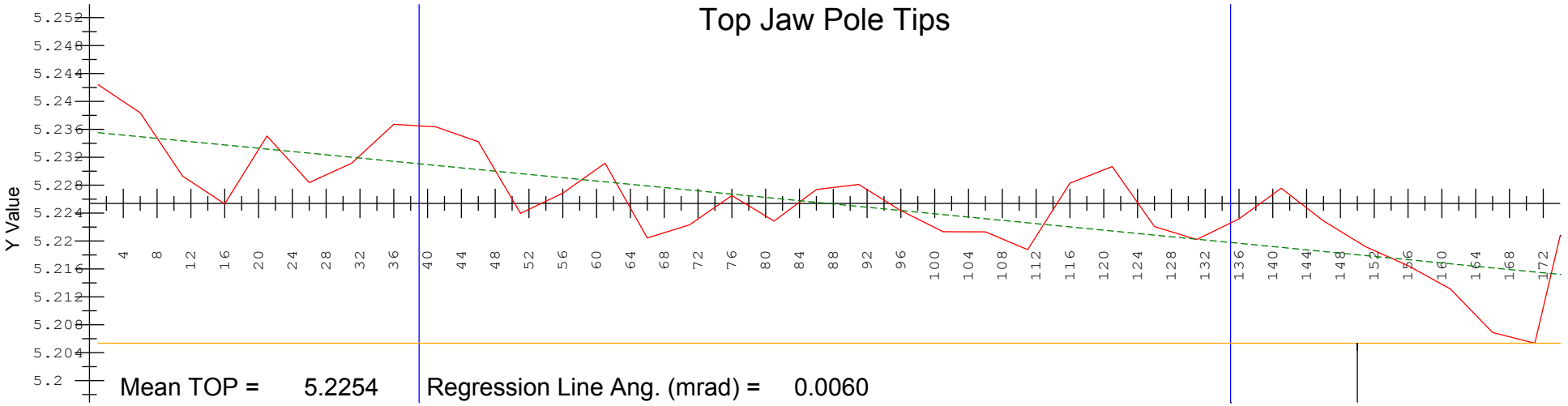
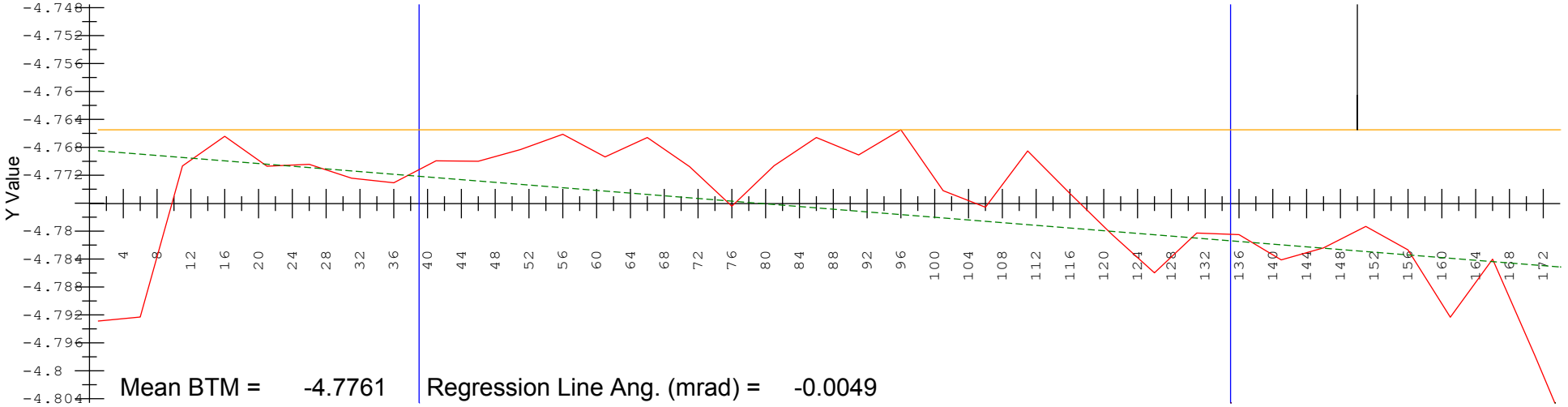


Mean TOP = 5.2254 Regression Line Ang. (mrad) = 0.0060

Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 9.971



Mean BTM = -4.7761 Regression Line Ang. (mrad) = -0.0049

Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 5

Regression Line Through Points = ----------

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000

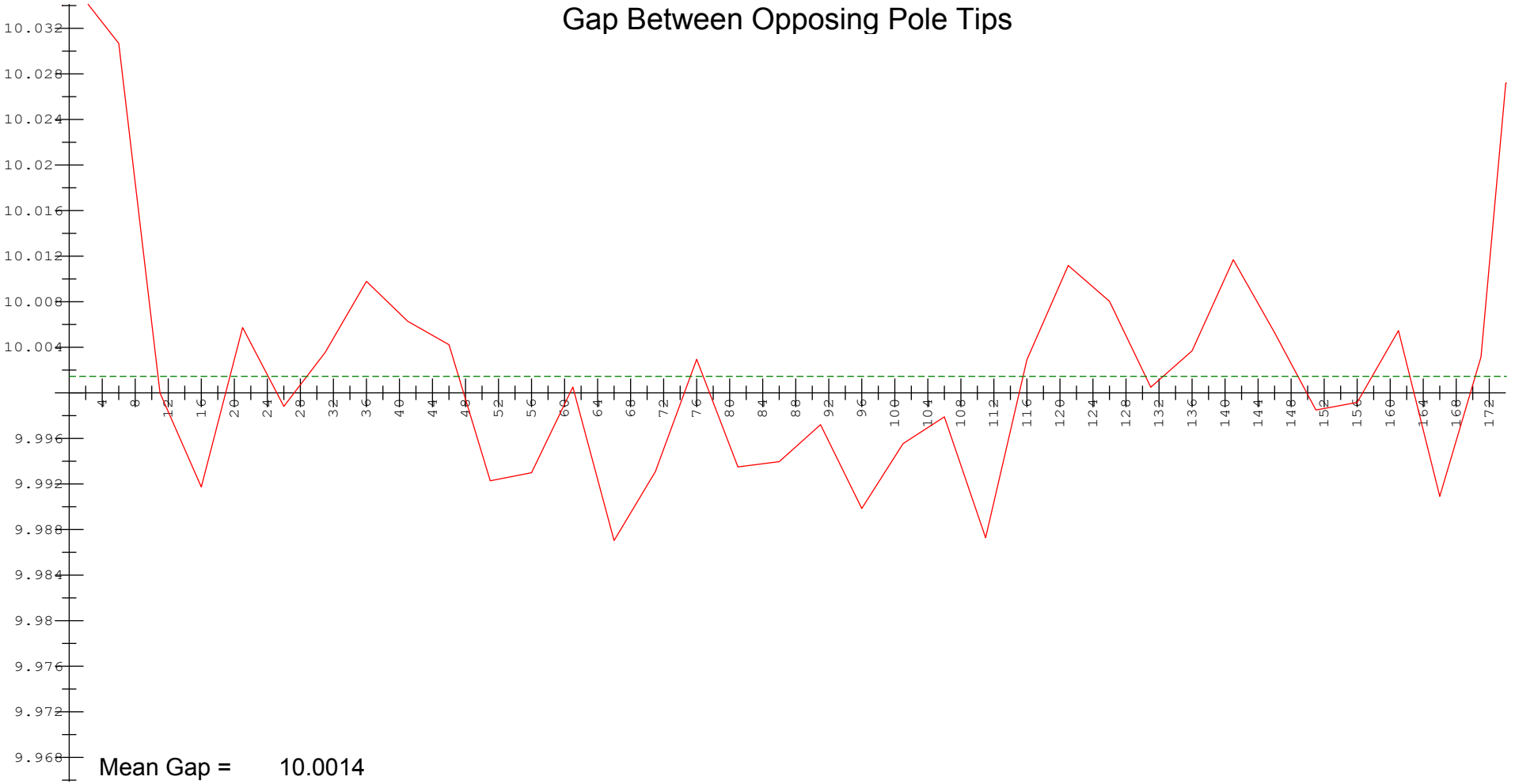
09-MAR-2018

S/N = 007

D/S= 0001

Run= 21

Gap Between Opposing Pole Tips



Mean Gap = 10.0014

Step Between Measured Pole Tips = 5

Dimensions in mm

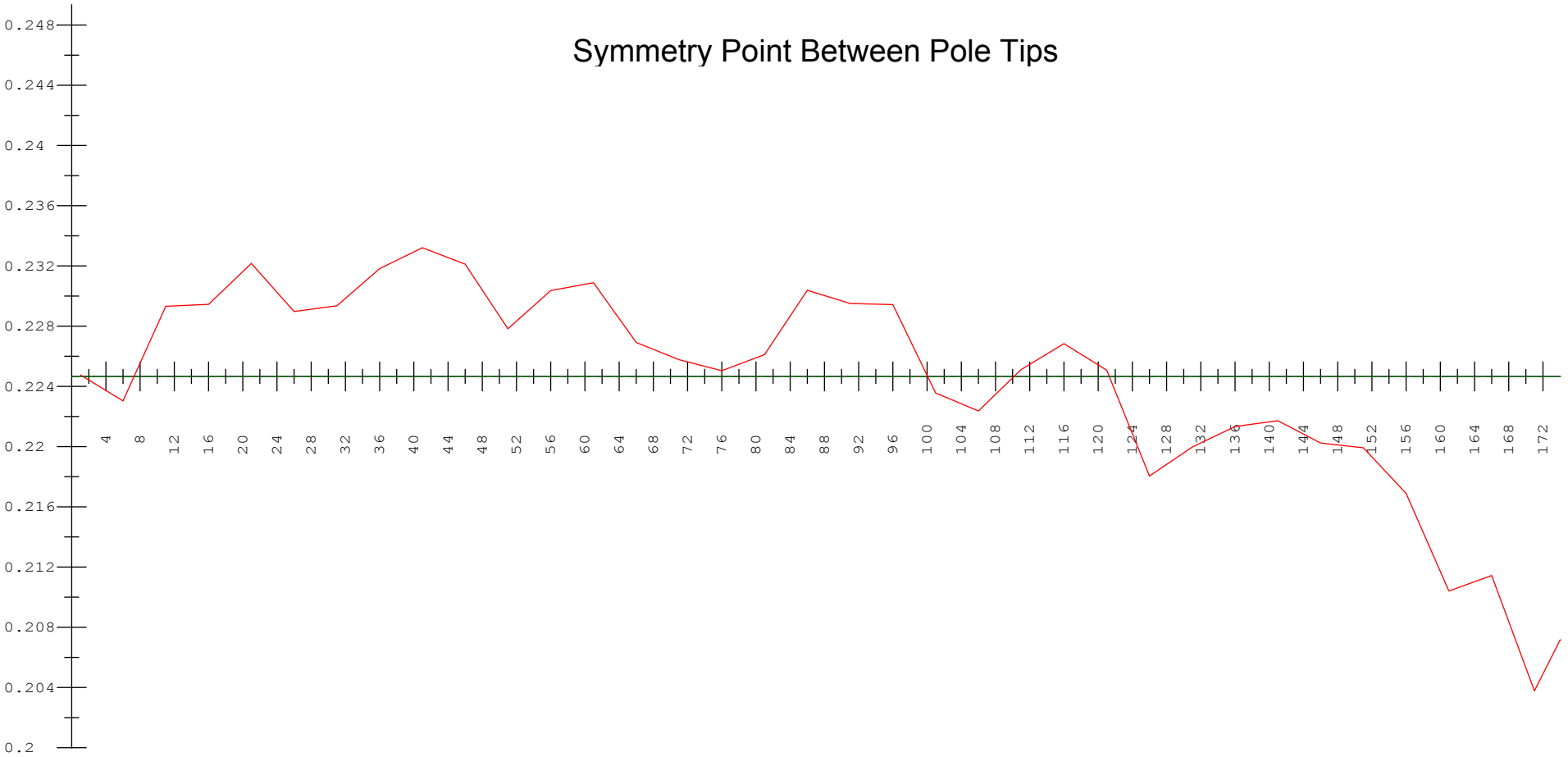
SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000

09-MAR-2018
S/N = 007
D/S= 0001
Run= 21



Mean Symmetry Value = 0.2247

Step Between Measured Pole Tips = 5

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000

09-MAR-2018
S/N = 007
D/S= 0001
Run= 21

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	5.2355	5.2311	5.2198	5.2152
Bottom	-4.7685	-4.7721	-4.7814	-4.7851
Gap	10.0040			10.0003
Taper				-0.0037

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.2254	-4.7761	10.0014	0.2247

Additional Calculated Values

Bottom Pole #1 Z Value	979.176
Top Jaw Pitch (mrad)	0.006
Bottom Jaw Pitch(mrad)	-0.005
Minimum Effective Gap	9.971
Reference Block Gap	6.804

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000

09-MAR-2018
S/N = 007
D/S= 0001
Run= 21