Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP =   5.6600   Regression Line Ang. (mrad) =   0.0532

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   11.239

Y Dev.from Mean

Mean BTM =   -5.7559   Regression Line Ang. (mrad) =   0.0398

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   5

Regression Line Through Points =
Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 11.5   Nominal Taper = 0.000
Gap Reading = 11.5000   US Encoder = 11.5000   DS Encoder = 11.5000

03-MAY-2019
S/N =   001
D/S=   0006
Run=   5

Gap Between Opposing Pole Tips

Mean Gap = 11.4159

Step Between Measured Pole Tips = 5

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 11.5   Nominal Taper = 0.000

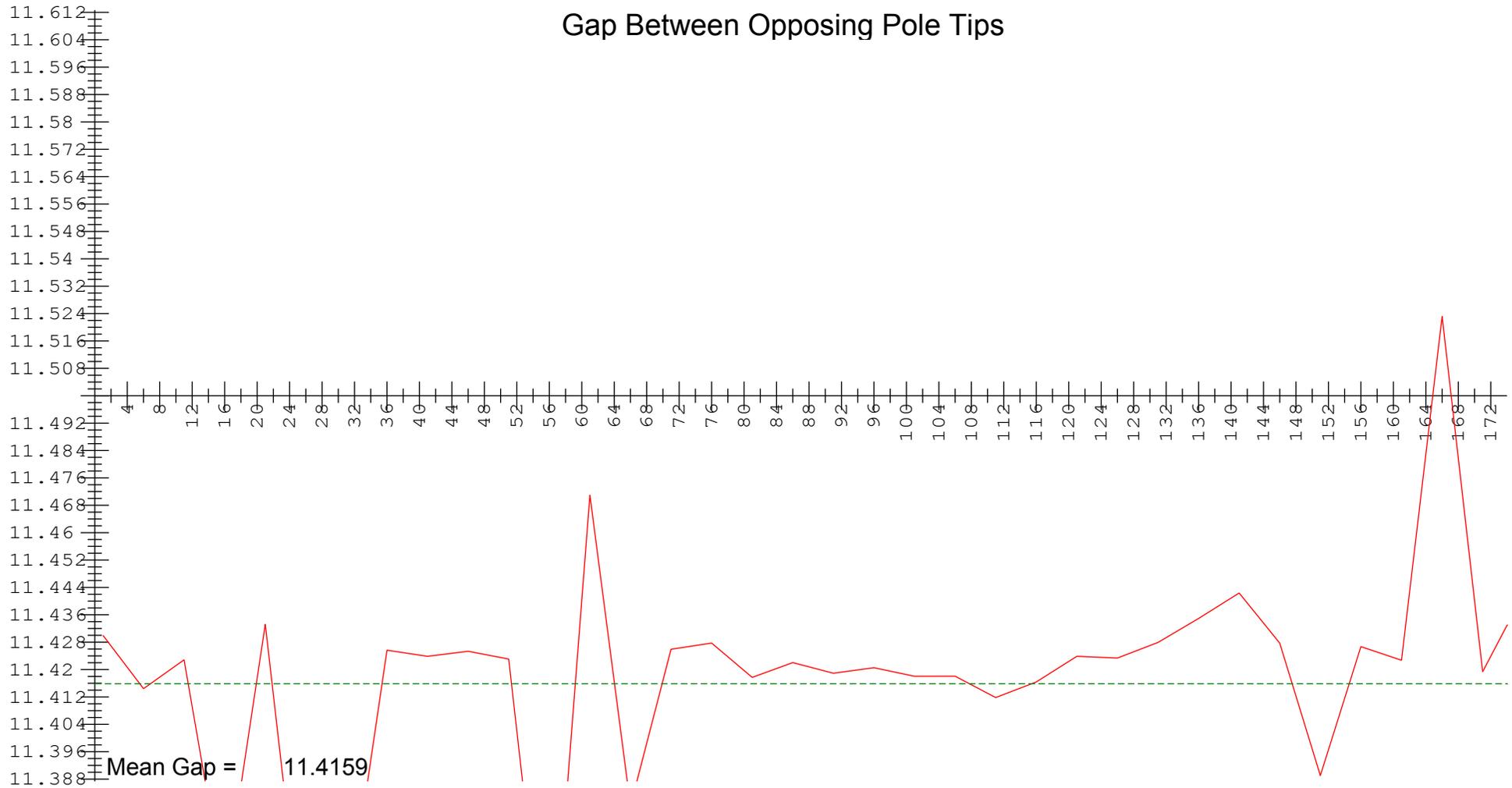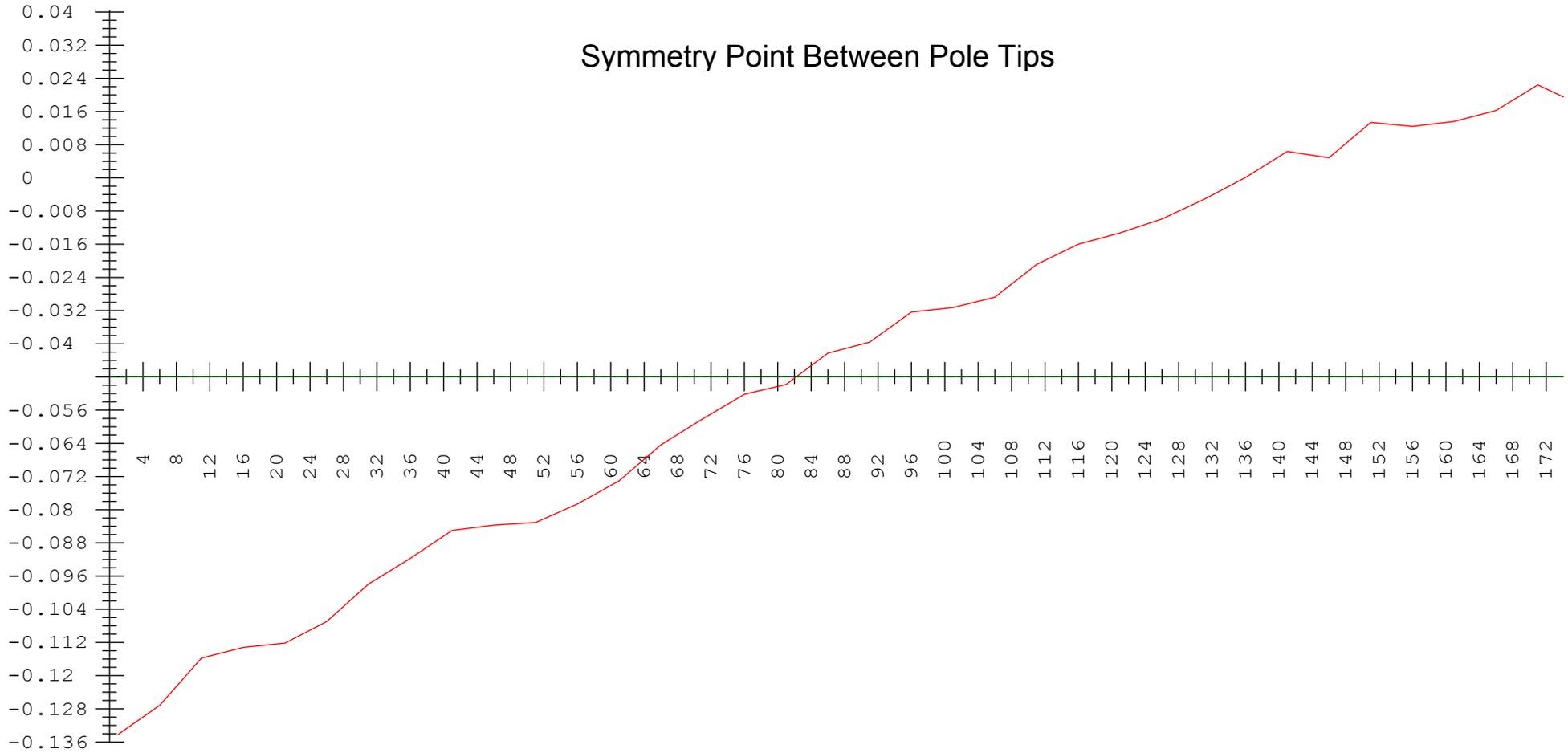Gap Reading = 11.5000   US Encoder = 11.5000   DS Encoder = 11.5000

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METROLOGY

03-MAY-2019
S/N =   001
D/S=   0006
Run=   5

Symmetry Point Between Pole Tips

Mean Symmetry Value =   -0.0479

Step Between Measured Pole Tips =   5

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 11.5   Nominal Taper = 0.000
Gap Reading = 11.5000   US Encoder = 11.5000   DS Encoder = 11.5000

03-MAY-2019
S/N =   001
D/S=   0006
Run=   5

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	5.5714	5.6108	5.7104	5.7509
Bottom	-5.8221	-5.7926	-5.7181	-5.6878
Gap	11.3935			11.4387
Taper				0.0452

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.6600	-5.7559	11.4159	-0.0479

Additional Calculated Values

Bottom Pole #1 Z Value	980.047
Top Jaw Pitch (mrad)	0.053
Bottom Jaw Pitch(mrad)	0.040
Minimum Effective Gap	11.239
Reference Block Gap	6.807

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 11.5   Nominal Taper = 0.000
Gap Reading = 11.5000   US Encoder = 11.5000   DS Encoder = 11.5000

03-MAY-2019
S/N =   001
D/S=   0006
Run=   5