Top Jaw Pole Tips

10^{-3}

Y Dev. from Mean

Mean TOP = 4.8420   Regression Line Ang. (mrad) =   -0.0014

Pole Tip Num. ---->   **Bottom Jaw Pole Tips**   Minimum Effective Gap =   9.938

10^{-3}

Y Dev. from Mean

Mean BTM =   -5.1641   Regression Line Ang. (mrad) =   0.0007

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

Regression Line Through Points =‒ ‒ ‒ ‒ ‒ ‒

Dimensions in mm

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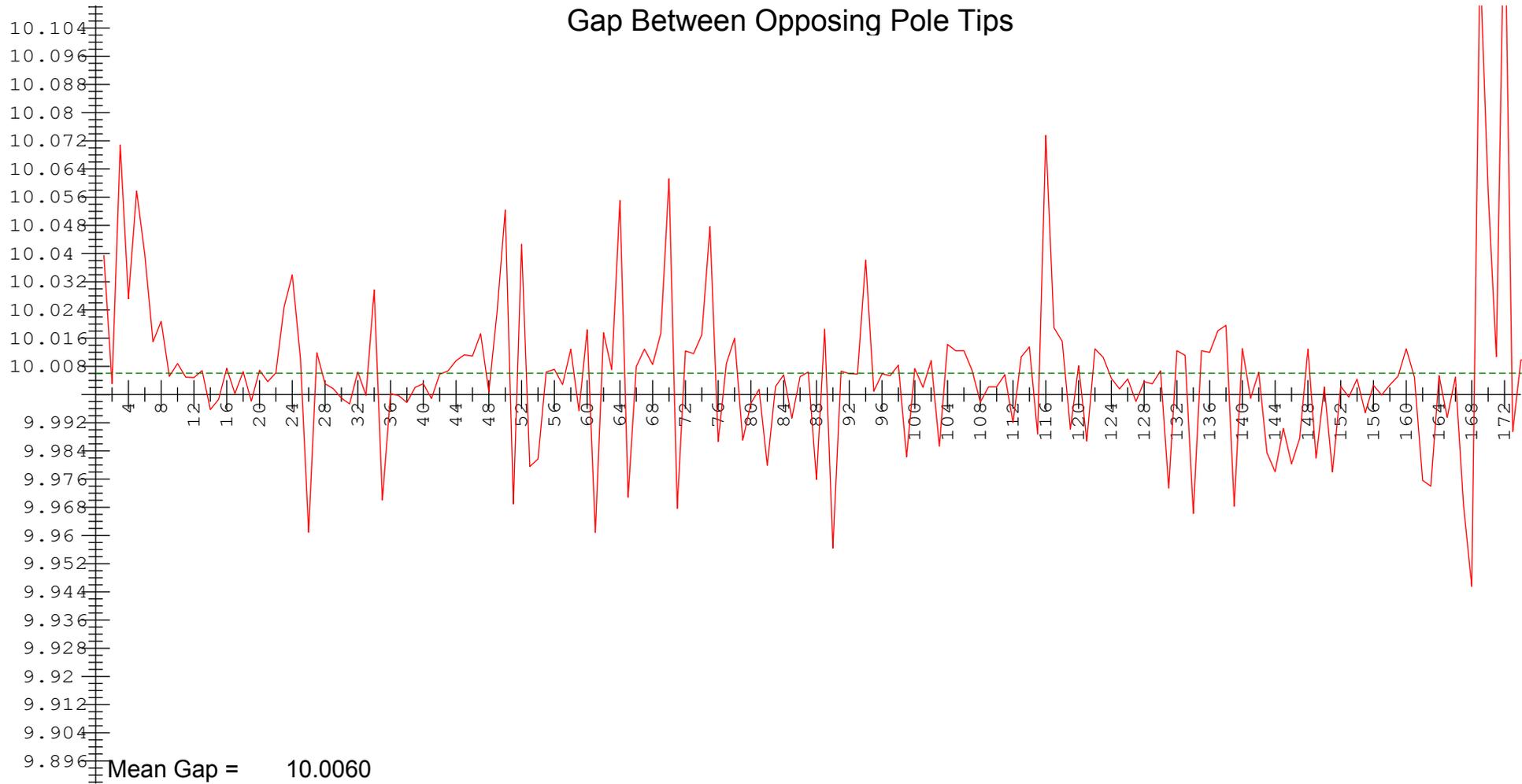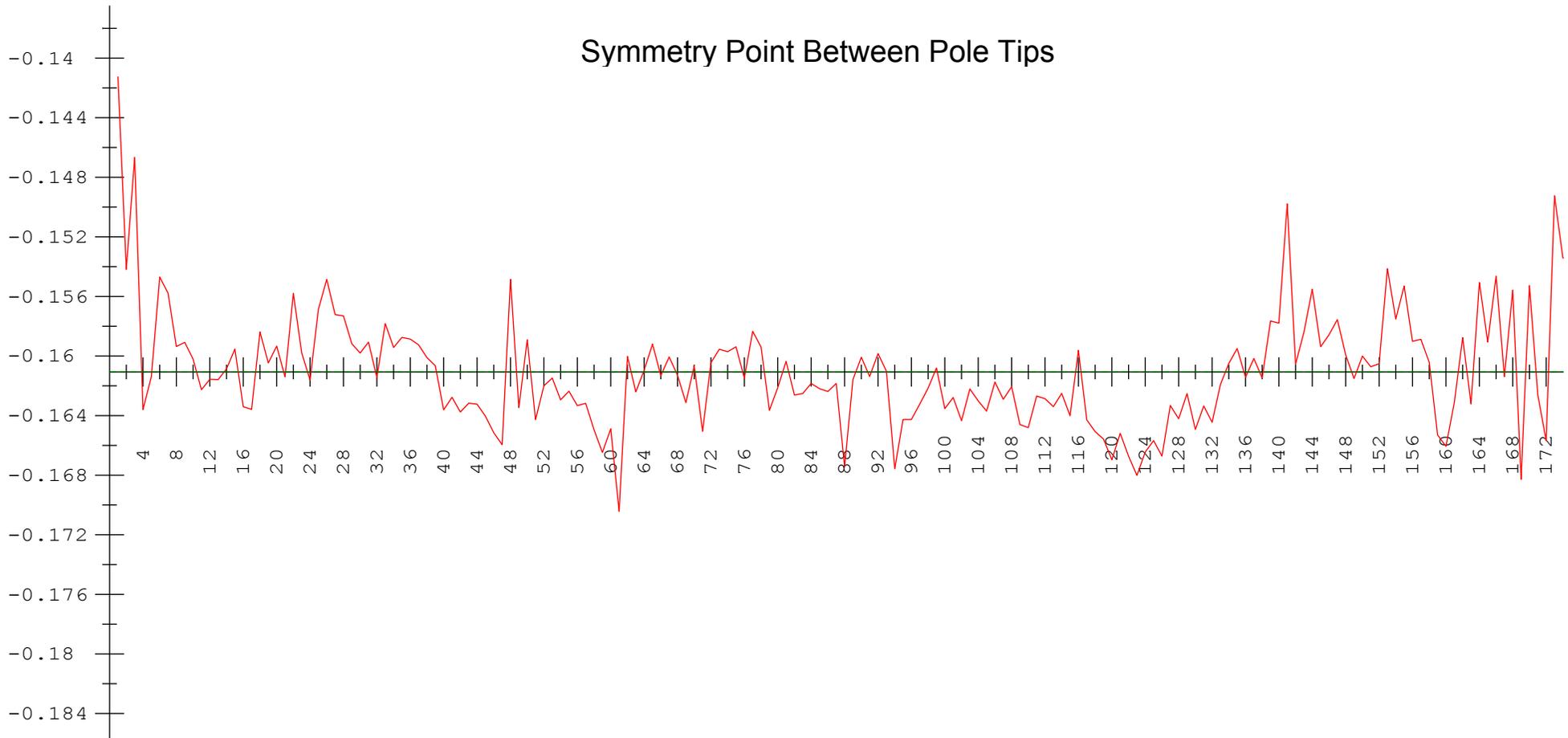**METROLOGY**

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

21-AUG-2018
S/N =   011
D/S=   0002
Run=   4

Gap Between Opposing Pole Tips

Mean Gap =   10.0060

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

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METROLOGY

21-AUG-2018
S/N =   011
D/S=   0002
Run=   4

Symmetry Point Between Pole Tips

Mean Symmetry Value =   -0.1611

Step Between Measured Pole Tips =   1

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

21-AUG-2018
S/N =   011
D/S=   0002
Run=   4

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	4.8444	4.8433	4.8406	4.8395
Bottom	-5.1653	-5.1648	-5.1634	-5.1629
Gap	10.0097			10.0024
Taper				-0.0073

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.8420	-5.1641	10.0060	-0.1611

Additional Calculated Values

Bottom Pole #1 Z Value	979.809
Top Jaw Pitch (mrad)	-0.001
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.938
Reference Block Gap	6.804

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

21-AUG-2018
S/N = 011
D/S= 0002
Run= 4