Top Jaw Pole Tips

Y Dev.from Mean

10^{-3}

Mean TOP =   3.6766   Regression Line Ang. (mrad) =   0.0006

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   7.311

Y Dev.from Mean

10^{-3}

Mean BTM =   -3.6872   Regression Line Ang. (mrad) =   0.0006

Y Value Scales Centered on Mean Values   Regression Line Through Points =- - - - - - - -
Step Between Measured Pole Tips =   7   Dimensions in mm

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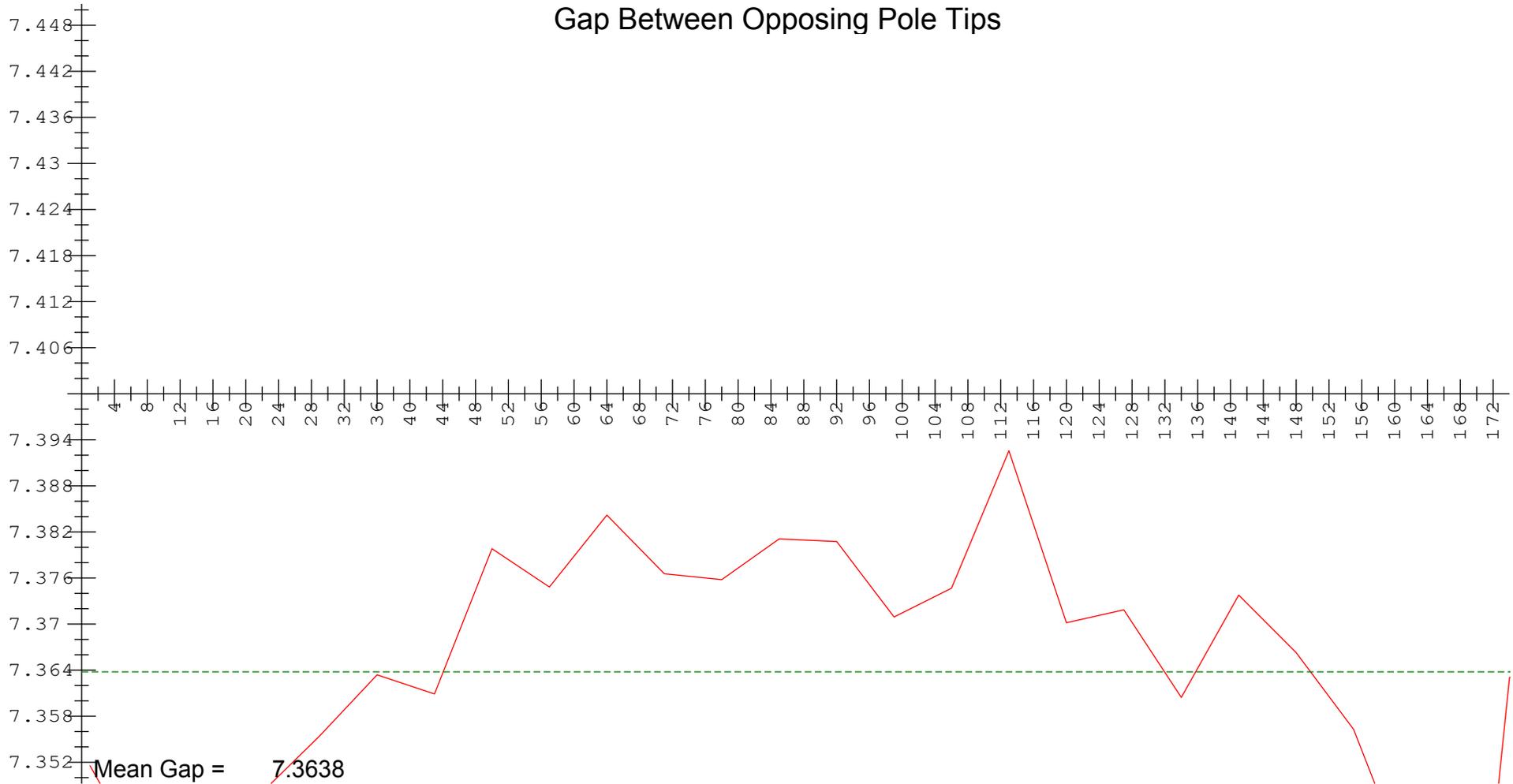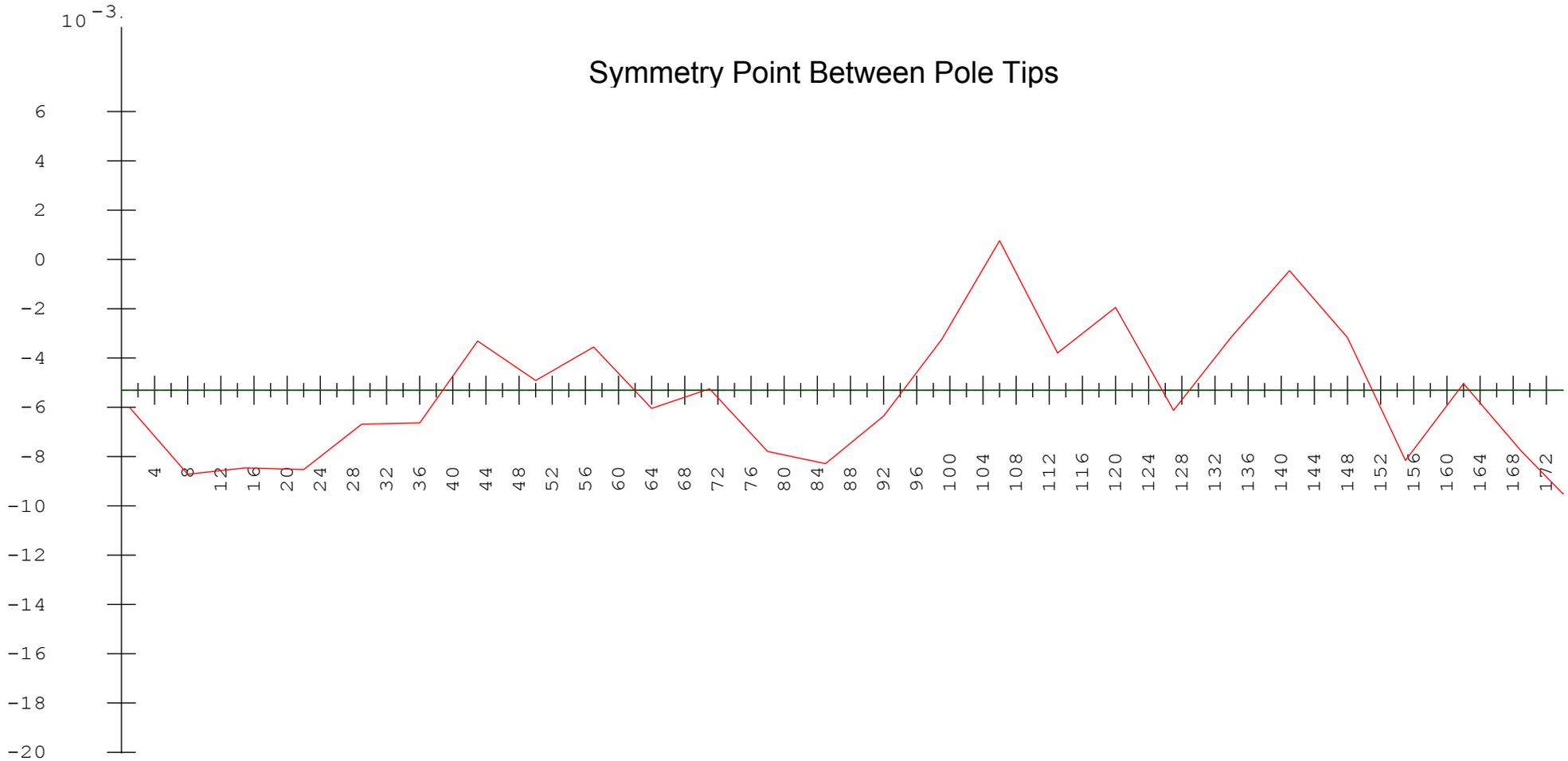METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 7.4   Nominal Taper = 0.000
Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.3999

11-FEB-2019
S/N =   020
D/S=   0001
Run=   2

Gap Between Opposing Pole Tips

Mean Gap = 7.3638

Step Between Measured Pole Tips = 7   Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 7.4   Nominal Taper = 0.000

Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.3999

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METROLOGY

11-FEB-2019
S/N = 020
D/S= 0001
Run= 2

Symmetry Point Between Pole Tips

Mean Symmetry Value =   -0.0053

Step Between Measured Pole Tips =   7   Dimensions in mm

LCLS II - SXR Undulator
Nominal Gap = 7.4   Nominal Taper = 0.000
Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.3999

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S/N =   020
D/S=   0001
Run=   2

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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	3.6754	3.6758	3.6770	3.6774
Bottom	-3.6883	-3.6879	-3.6868	-3.6864
Gap	7.3637			7.3638
Taper				0.0002

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
3.6766	-3.6872	7.3638	-0.0053

Additional Calculated Values

Bottom Pole #1 Z Value	980.504
Top Jaw Pitch (mrad)	0.001
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	7.311
Reference Block Gap	6.811

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 7.4   Nominal Taper = 0.000
Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.3999

11-FEB-2019
S/N =   020
D/S=   0001
Run=   2