Top Jaw Pole Tips

Y Dev. from Mean

10^{-3}

Mean TOP =   3.6804   Regression Line Ang. (mrad) =   0.0122

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   7.403

Y Dev. from Mean

10^{-3}

Mean BTM =   -3.7760   Regression Line Ang. (mrad) =   0.0085

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

Regression Line Through Points =

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 7.4   Nominal Taper = 0.000

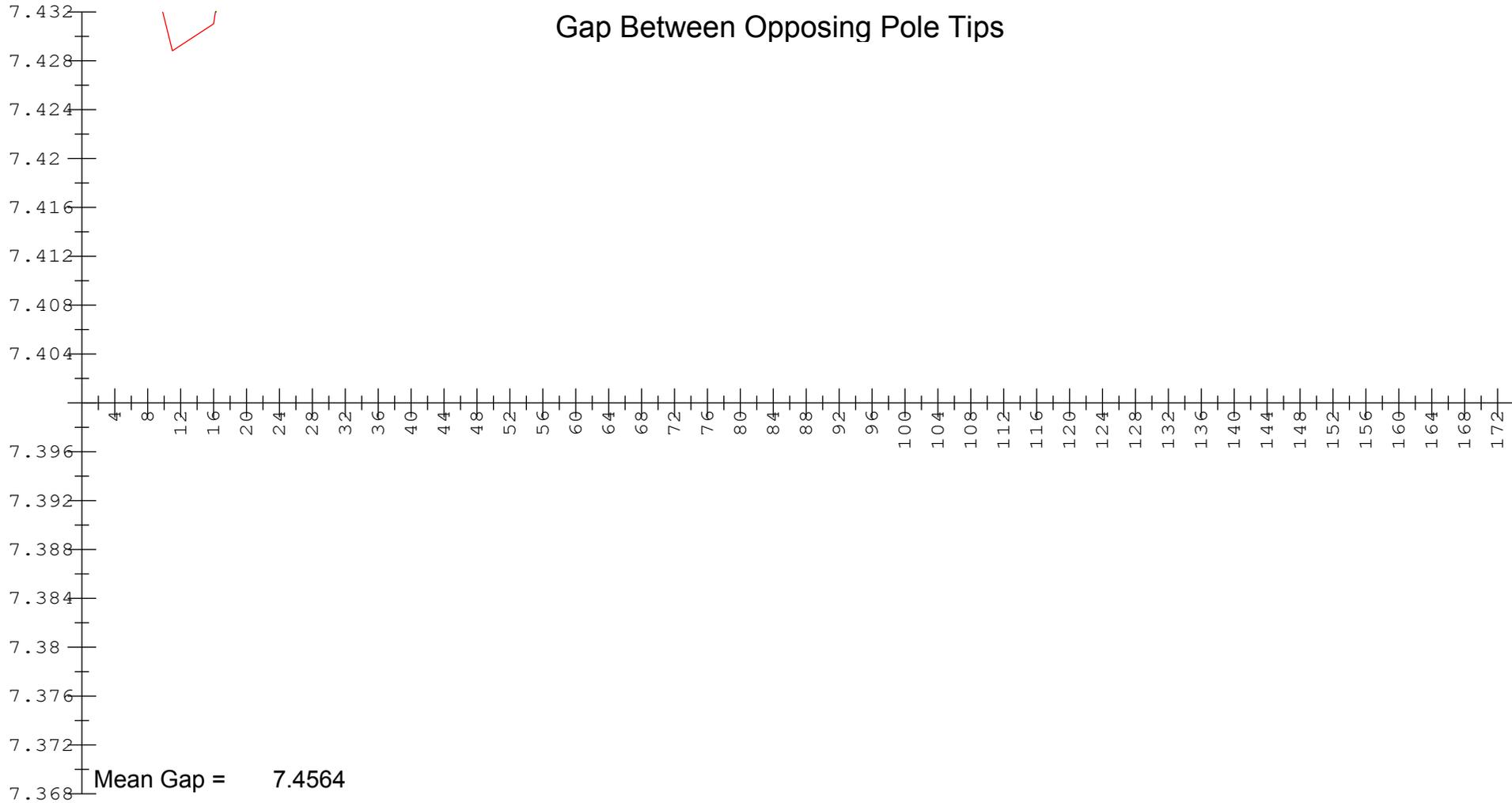Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.4000

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05-APR-2019
S/N =   002
D/S=   0001
Run=   5

Gap Between Opposing Pole Tips

Mean Gap =   7.4564

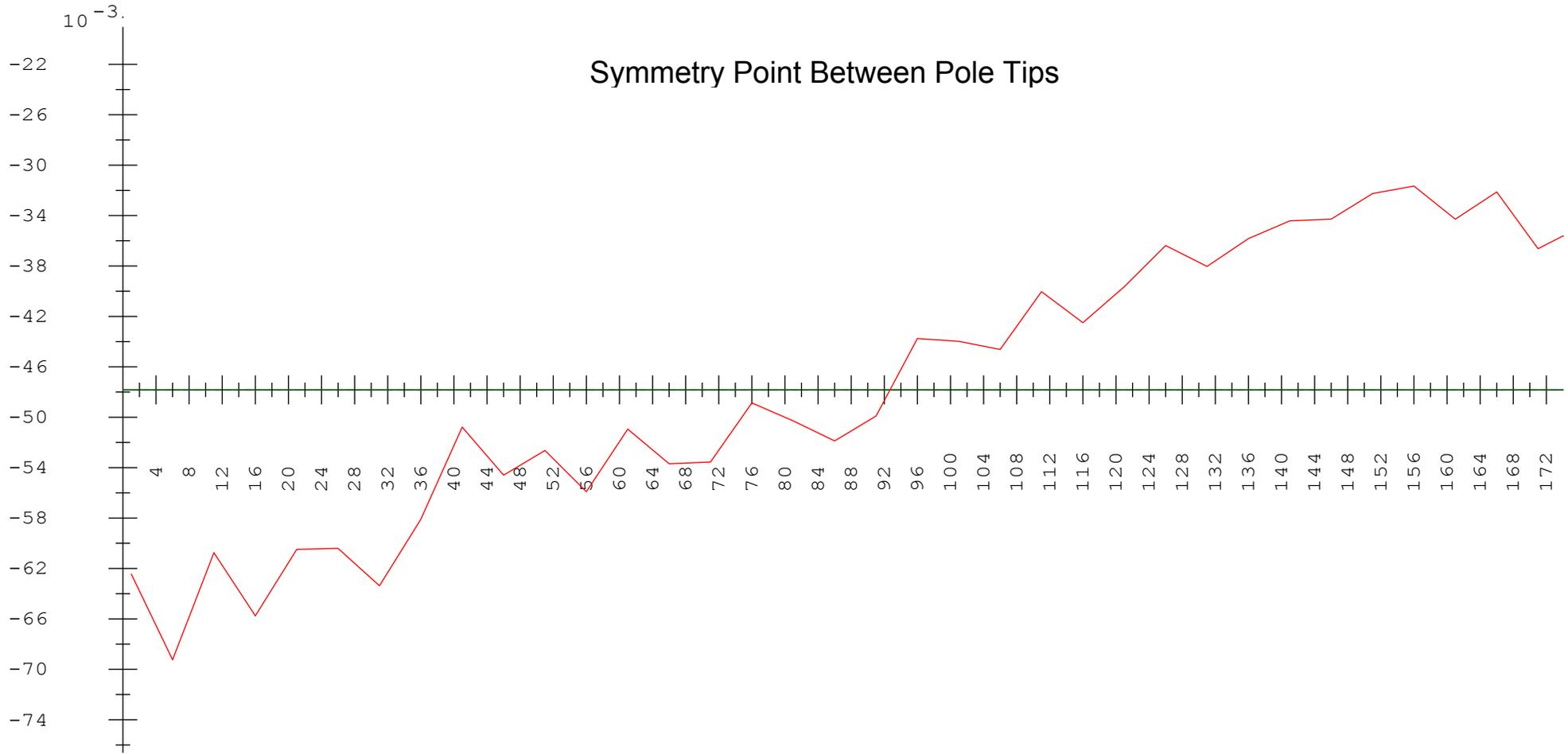Step Between Measured Pole Tips =   5

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 = 7.4000

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METROLOGY

05-APR-2019
S/N =   002
D/S=   0001
Run=   5

Symmetry Point Between Pole Tips

Mean Symmetry Value =   -0.0478

Step Between Measured Pole Tips =   5

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 = 7.4000

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05-APR-2019
S/N =   002
D/S=   0001
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	3.6604	3.6695	3.6923	3.7016
Bottom	-3.7906	-3.7844	-3.7685	-3.7621
Gap	7.4511			7.4637
Taper				0.0126

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
3.6804	-3.7760	7.4564	-0.0478

Additional Calculated Values

Bottom Pole #1 Z Value	980.303
Top Jaw Pitch (mrad)	0.012
Bottom Jaw Pitch(mrad)	0.008
Minimum Effective Gap	7.403
Reference Block Gap	6.810

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 = 7.4000

05-APR-2019
S/N = 002
D/S = 0001
Run= 5