Top Jaw Pole Tips

Y Dev.from Mean

10^{-3}

Mean TOP =　5.4794　　Regression Line Ang. (mrad) =　-0.0015

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =　10.969

Y Dev.from Mean

10^{-3}

Mean BTM =　-5.5319　　Regression Line Ang. (mrad) =　-0.0012

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =　7

Regression Line Through Points =
Dimensions in mm

SLAC
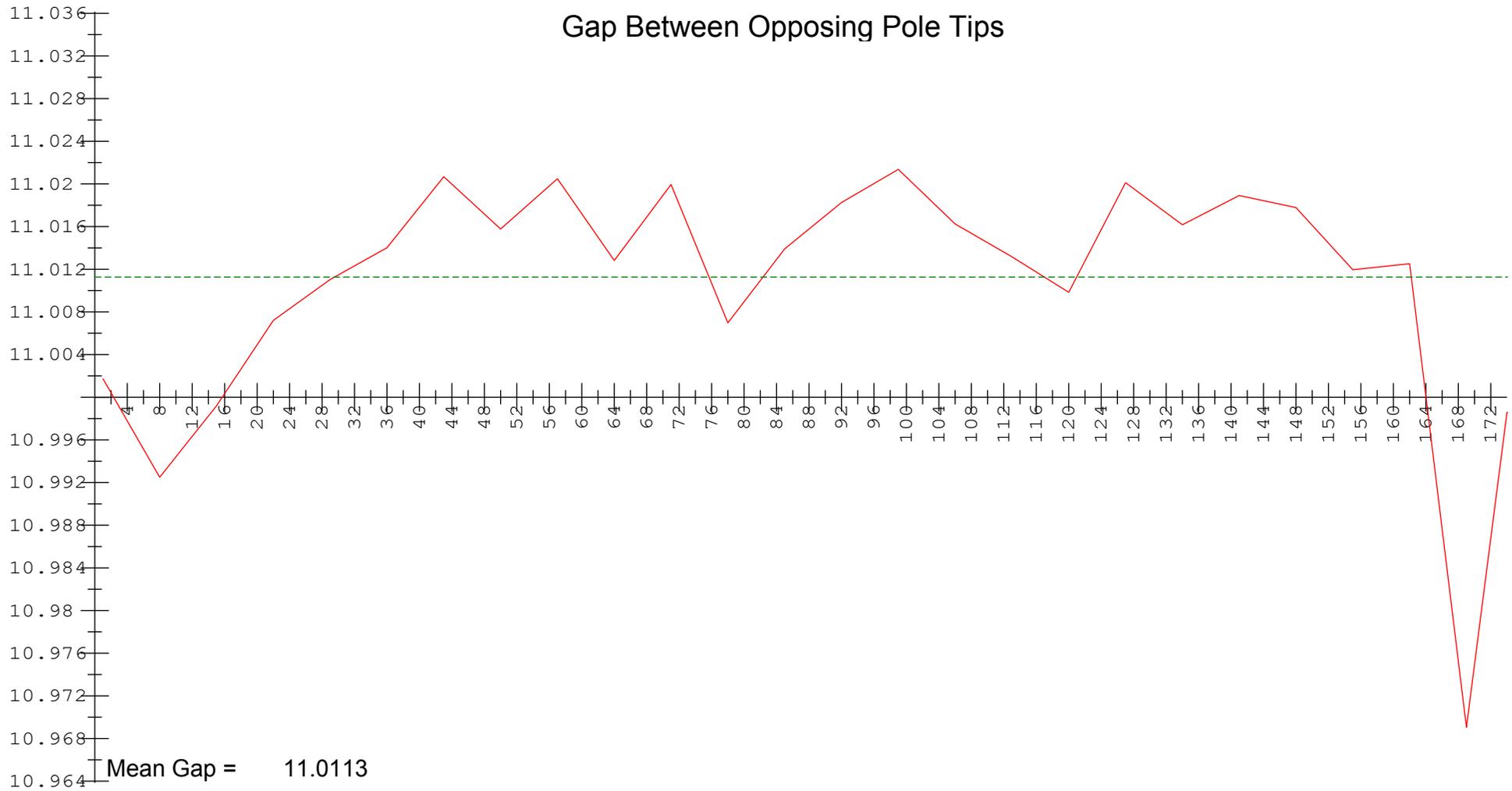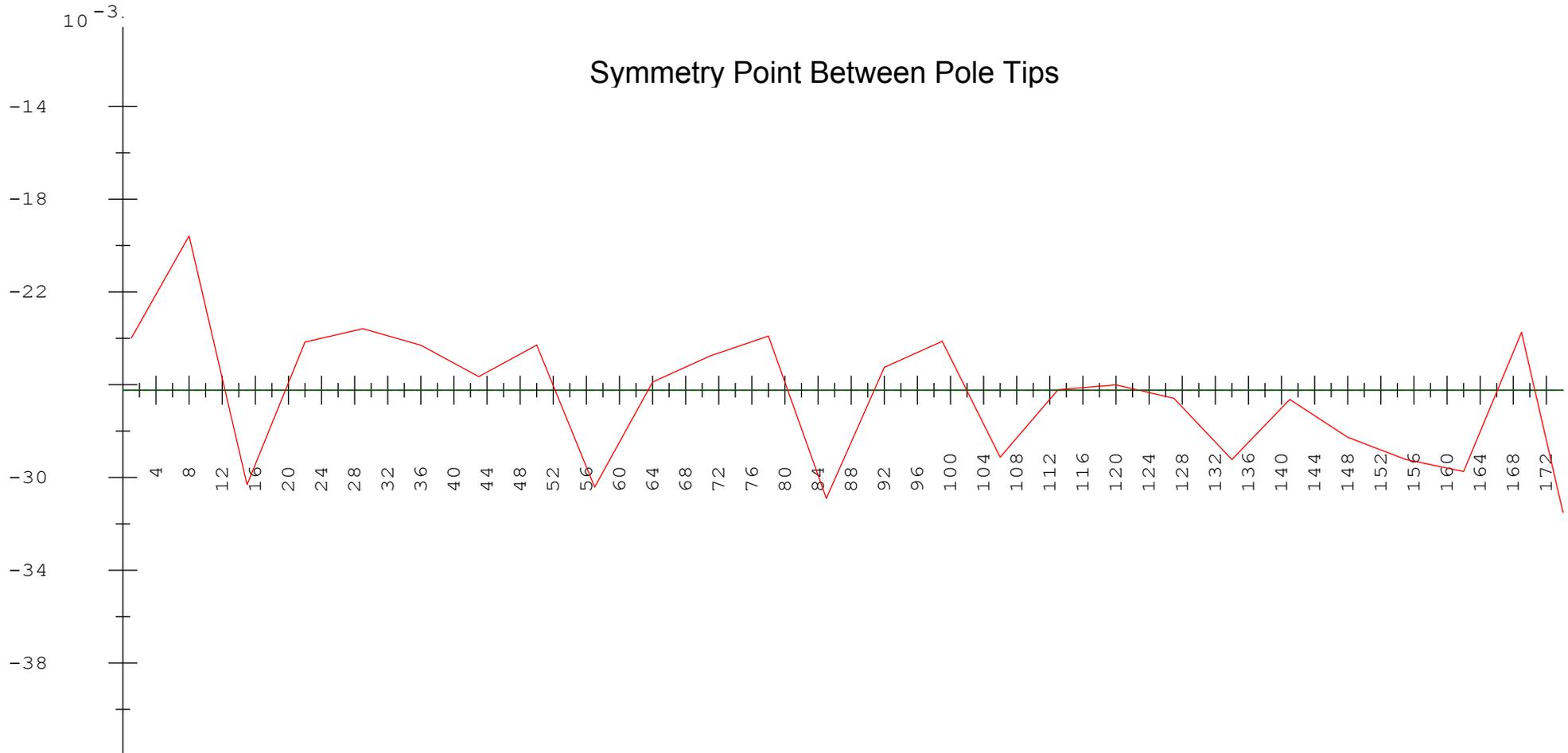NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 11　　Nominal Taper = 0.000
Gap Reading = 11.0000　　US Encoder = 11.0000　　DS Encoder = 11.0001

19-JUL-2018
S/N =　013
D/S=　0001
Run=　8

Gap Between Opposing Pole Tips

Mean Gap =   11.0113

Step Between Measured Pole Tips =   7

Dimensions in mm

Symmetry Point Between Pole Tips

10^{-3}

Mean Symmetry Value =   -0.0262

Step Between Measured Pole Tips =   7

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 11   Nominal Taper = 0.000
Gap Reading = 11.0000   US Encoder = 11.0000   DS Encoder = 11.0001

19-JUL-2018
S/N =   013
D/S=   0001
Run=   8

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	5.4815	5.4804	5.4776	5.4765
Bottom	-5.5298	-5.5307	-5.5329	-5.5338
Gap	11.0113			11.0102
Taper				-0.0011

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.4794	-5.5319	11.0113	-0.0262

Additional Calculated Values

Bottom Pole #1 Z Value	979.775
Top Jaw Pitch (mrad)	-0.001
Bottom Jaw Pitch(mrad)	-0.001
Minimum Effective Gap	10.969
Reference Block Gap	6.806

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 11   Nominal Taper = 0.000
Gap Reading = 11.0000   US Encoder = 11.0000   DS Encoder = 11.0001

19-JUL-2018
S/N = 013
D/S = 0001
Run = 8