Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP =   5.0884   Regression Line Ang. (mrad) =   -0.0487

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.786

Y Dev.from Mean

Mean BTM =   -4.8628   Regression Line Ang. (mrad) =   -0.0329

Y Value Scales Centered on Mean Values   Regression Line Through Points =————
Step Between Measured Pole Tips =   1   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 = 10.0000

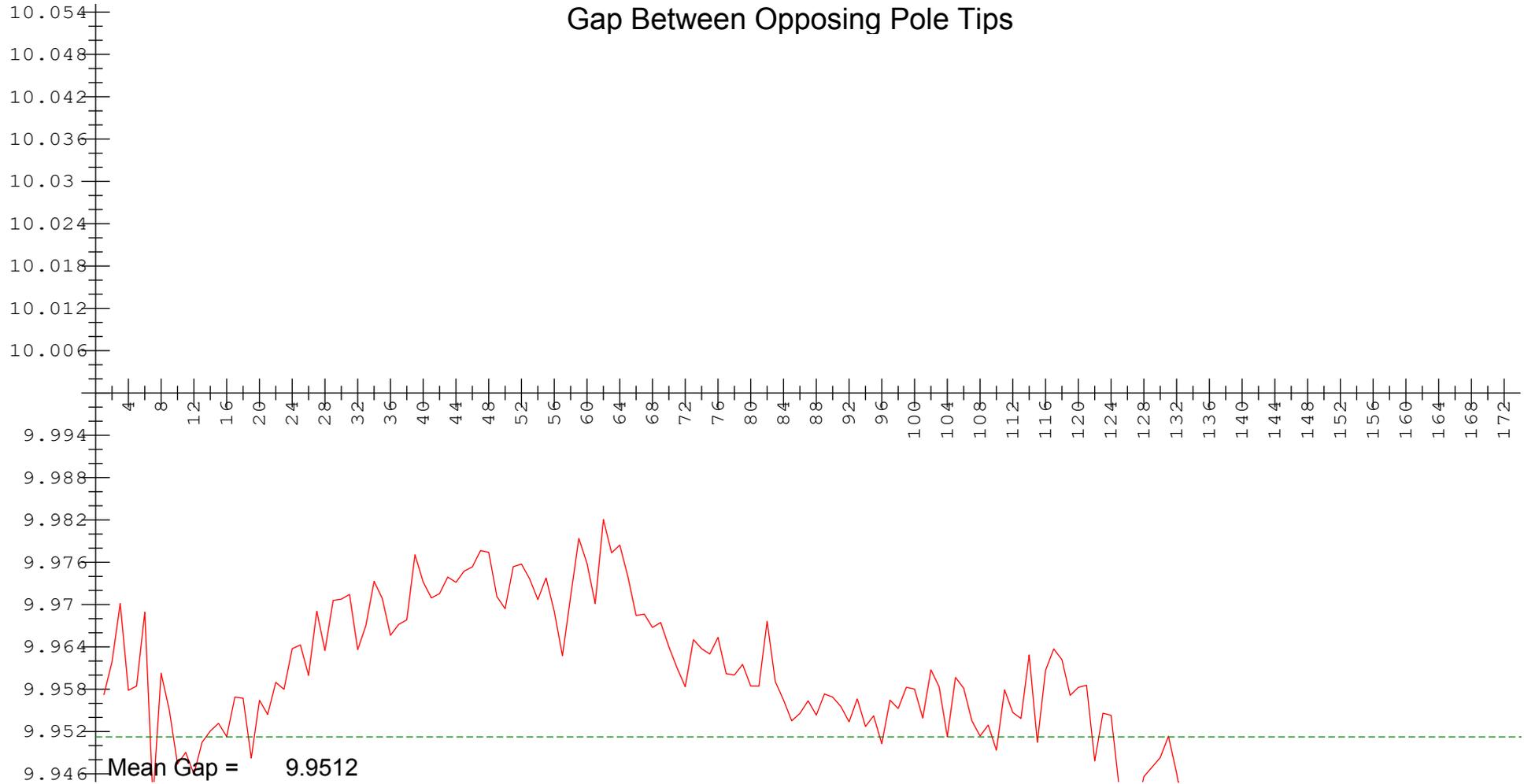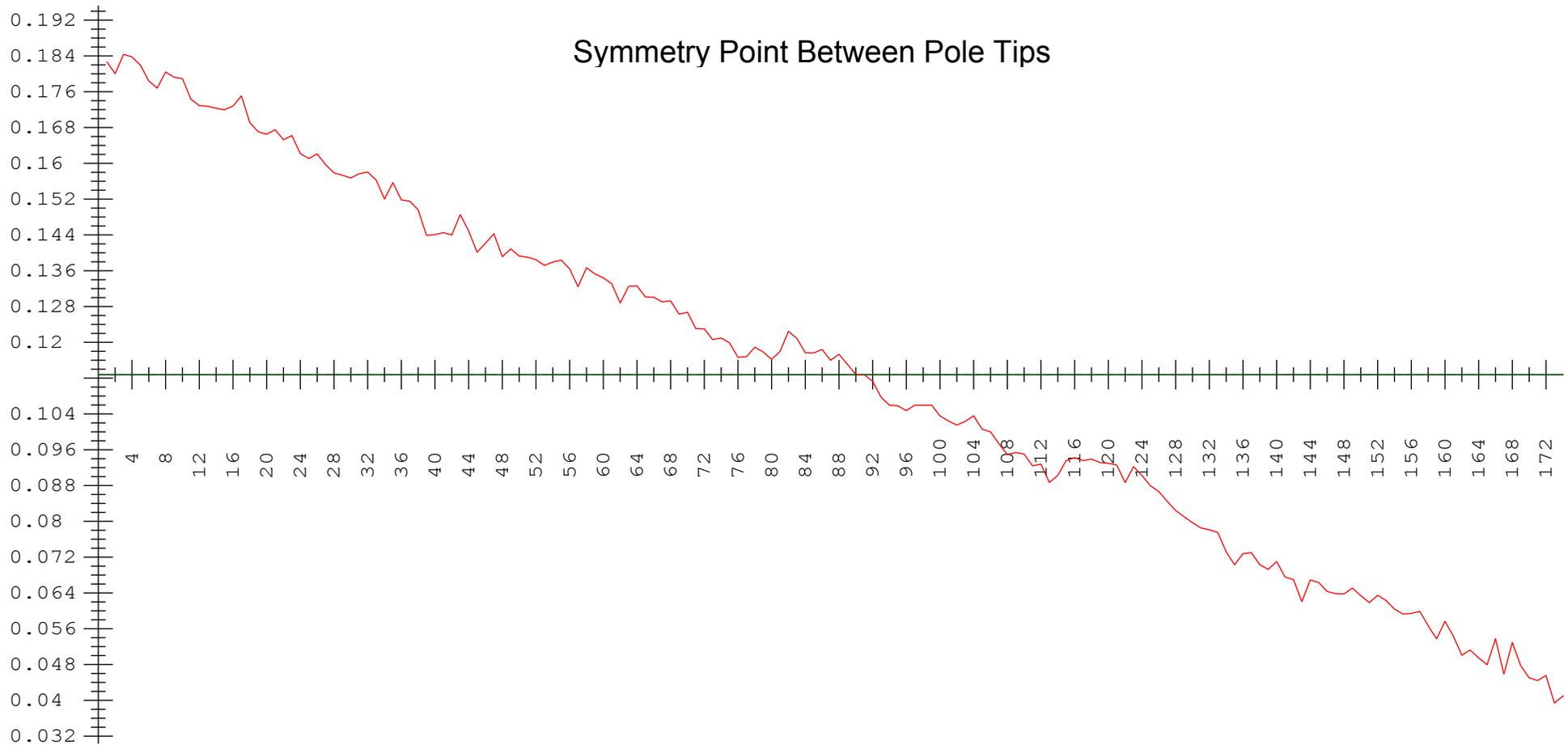01-OCT-2018
S/N =   015
D/S=   0001
Run=   1

Gap Between Opposing Pole Tips

Mean Gap = 9.9512

Step Between Measured Pole Tips = 1

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 = 10.0000

01-OCT-2018
S/N = 015
D/S= 0001
Run= 1

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1128

Step Between Measured Pole Tips =   1

Dimensions in mm

| ![SLAC logo] NATIONAL ACCELERATOR LABORATORY METROLOGY | **LCLS II - SXR Undulator** Nominal Gap = 10   Nominal Taper = 0.000 Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000 | 01-OCT-2018 S/N = 015 D/S= 0001 Run= 1 |

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	5.1705	5.1344	5.0433	5.0063
Bottom	-4.8074	-4.8318	-4.8933	-4.9183
Gap	9.9779			9.9246
Taper				-0.0533

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0884	-4.8628	9.9512	0.1128

Additional Calculated Values

Bottom Pole #1 Z Value	980.409
Top Jaw Pitch (mrad)	-0.049
Bottom Jaw Pitch(mrad)	-0.033
Minimum Effective Gap	9.786
Reference Block Gap	6.807

Dimensions in mm

METROLOGY

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

01-OCT-2018
S/N = 015
D/S = 0001
Run = 1