Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   5.0959   Regression Line Ang. (mrad) =   0.0124

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.991

Y Dev. from Mean

Mean BTM =   -4.9607   Regression Line Ang. (mrad) =   -0.0159

Y Value Scales Centered on Mean Values   Regression Line Through Points =
Step Between Measured Pole Tips =   1   Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.100
Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1001

19-OCT-2018
S/N =   015
D/S=   0001
Run=   10

Gap Between Opposing Pole Tips

Mean Gap =   10.0566

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.100

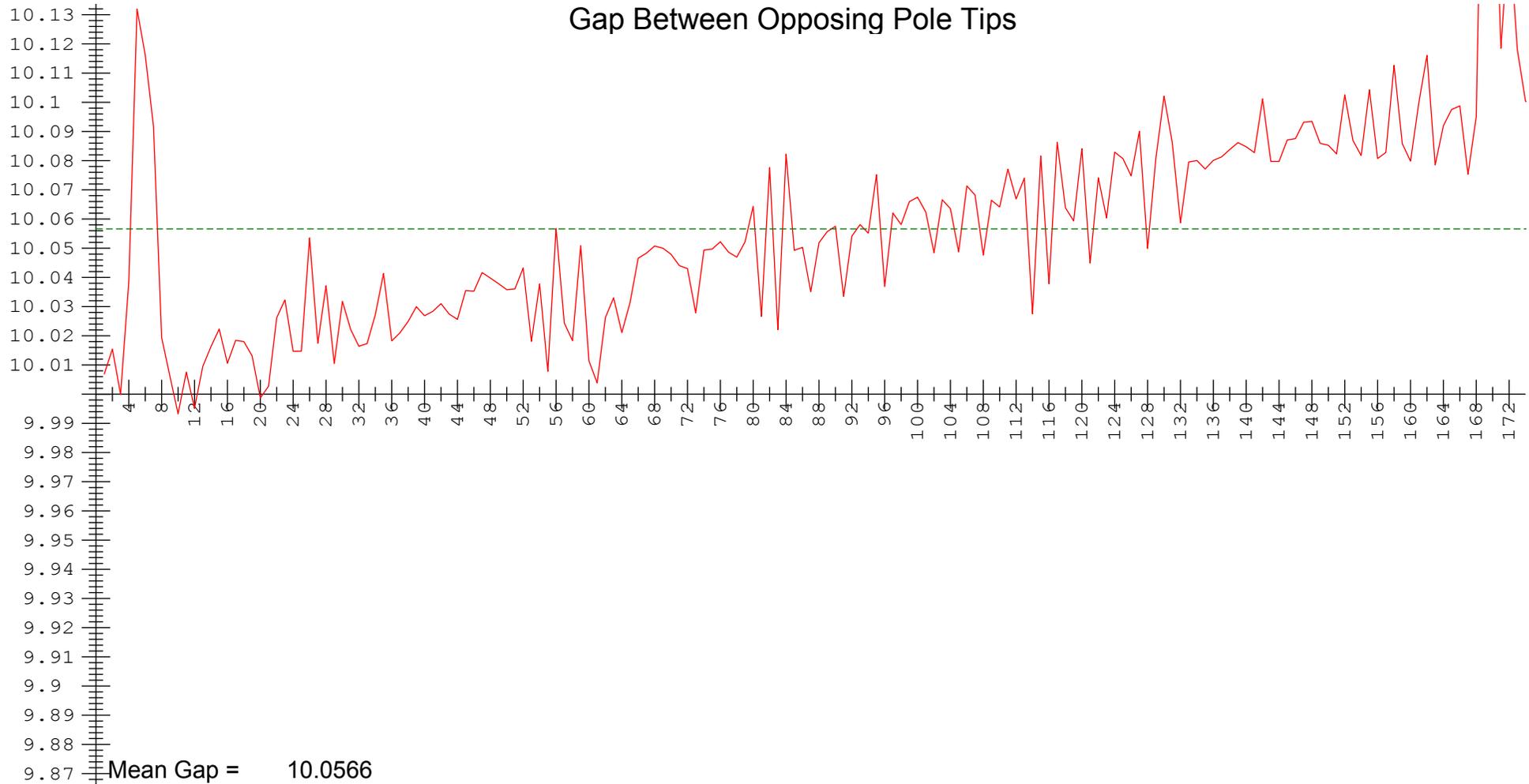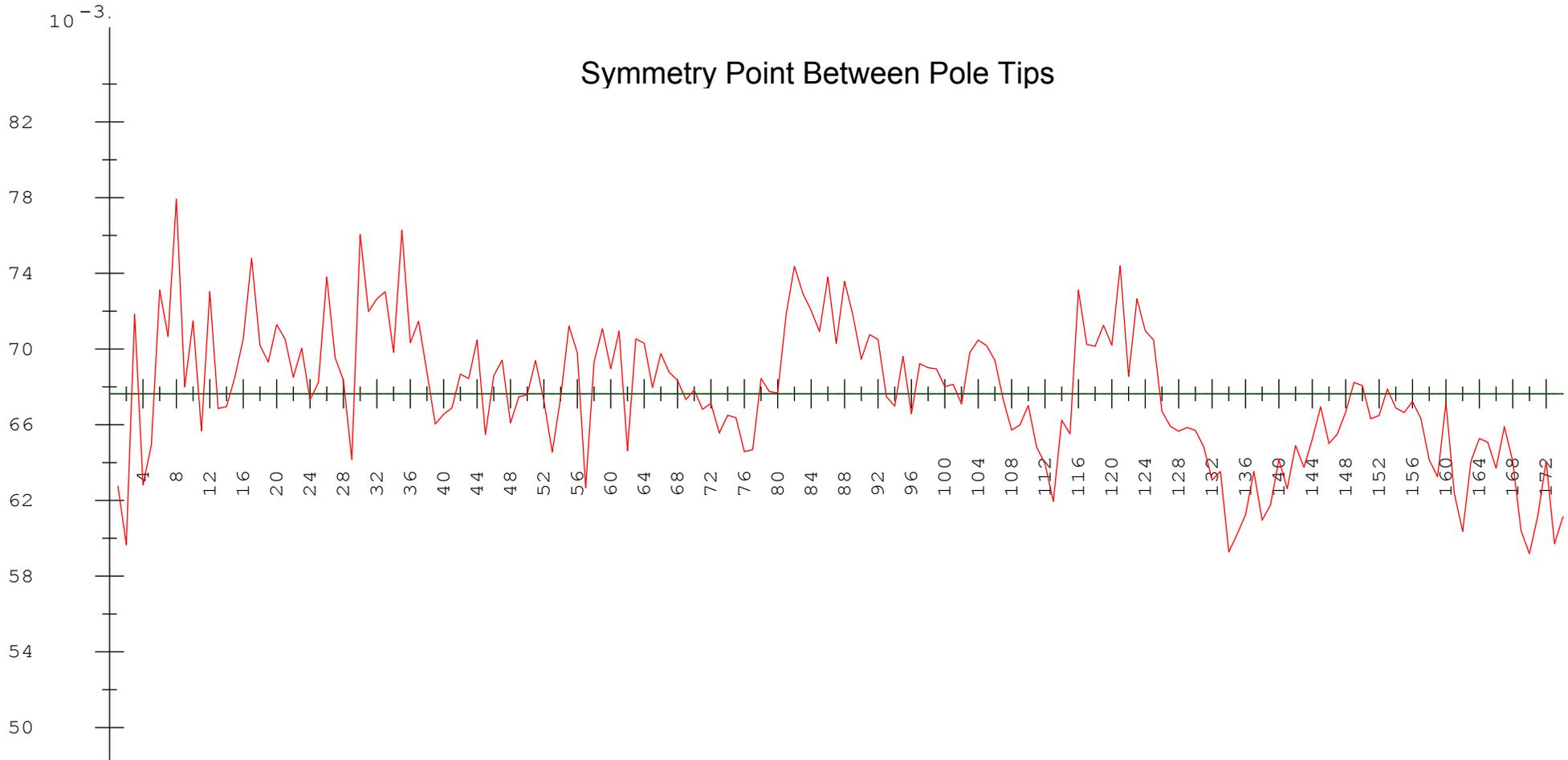Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1001

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METROLOGY

19-OCT-2018
S/N =   015
D/S=   0001
Run=   10

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0676

Step Between Measured Pole Tips =   1

Dimensions in mm

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LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.100

Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1001

19-OCT-2018
S/N =   015
D/S=   0001
Run=   10

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	5.0750	5.0842	5.1074	5.1168
Bottom	-4.9338	-4.9456	-4.9754	-4.9875
Gap	10.0089			10.1043
Taper				0.0955

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0959	-4.9607	10.0566	0.0676

Additional Calculated Values

Bottom Pole #1 Z Value	980.397
Top Jaw Pitch (mrad)	0.012
Bottom Jaw Pitch(mrad)	-0.016
Minimum Effective Gap	9.991
Reference Block Gap	6.806

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.100
Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1001

19-OCT-2018
S/N =   015
D/S=   0001
Run=   10