Top Jaw Pole Tips

10^{-3}

Y Dev. from Mean

Mean TOP =   5.0743   Regression Line Ang. (mrad) =   0.0108

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.940

10^{-3}

Y Dev. from Mean

Mean BTM =   -4.9708   Regression Line Ang. (mrad) =   -0.0184

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

07-NOV-2018
S/N =   016
D/S=   0001
Run=   16

Gap Between Opposing Pole Tips

Mean Gap =   10.0451

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.100

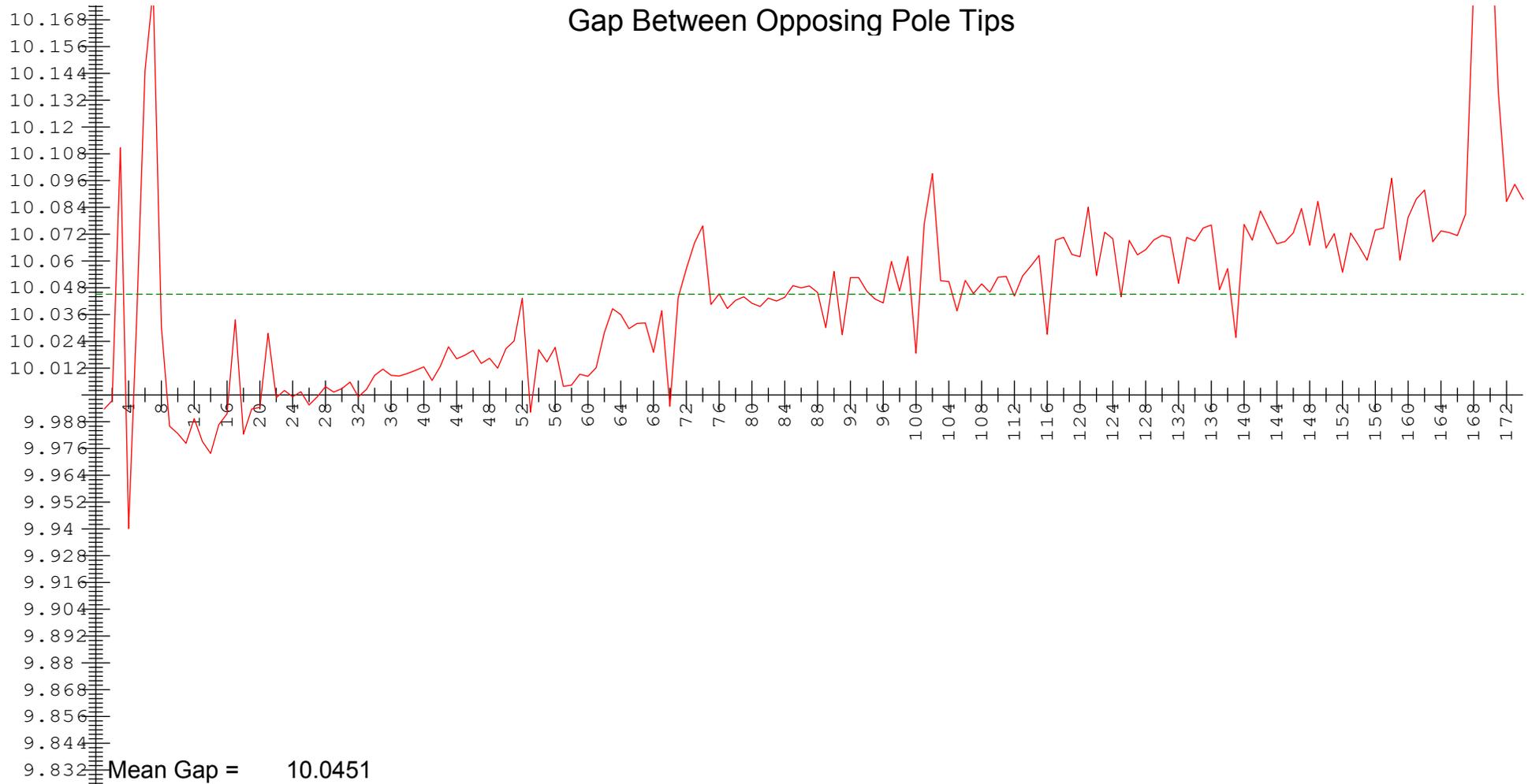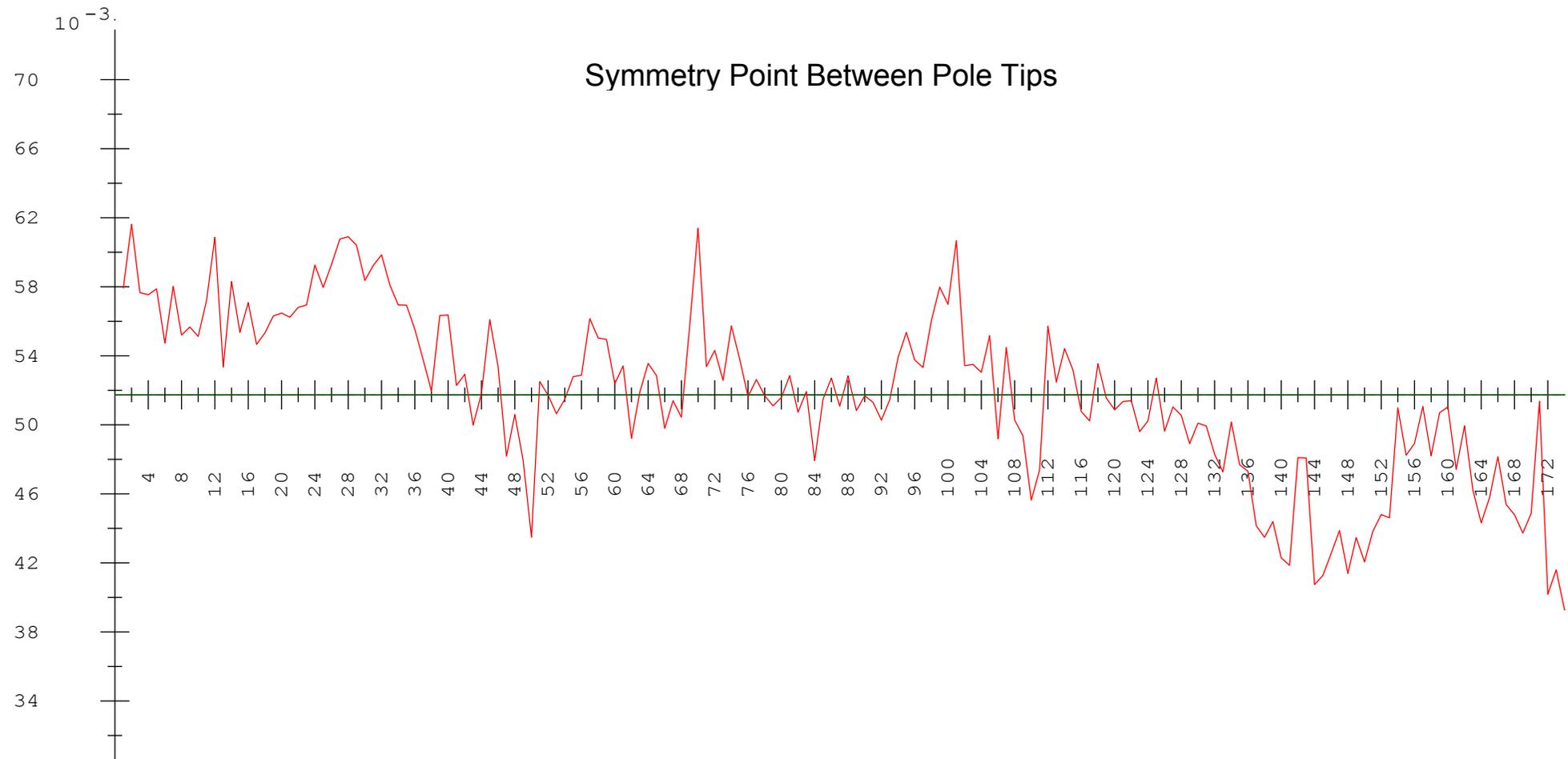Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1001

07-NOV-2018
S/N =   016
D/S=   0001
Run=   16

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Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0517

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

07-NOV-2018
S/N =   016
D/S=   0001
Run=   16

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	5.0560	5.0640	5.0843	5.0926
Bottom	-4.9398	-4.9534	-4.9879	-5.0019
Gap	9.9958			10.0945
Taper				0.0987

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0743	-4.9708	10.0451	0.0517

Additional Calculated Values

Bottom Pole #1 Z Value	979.728
Top Jaw Pitch (mrad)	0.011
Bottom Jaw Pitch(mrad)	-0.018
Minimum Effective Gap	9.940
Reference Block Gap	6.804

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

07-NOV-2018
S/N = 016
D/S= 0001
Run= 16