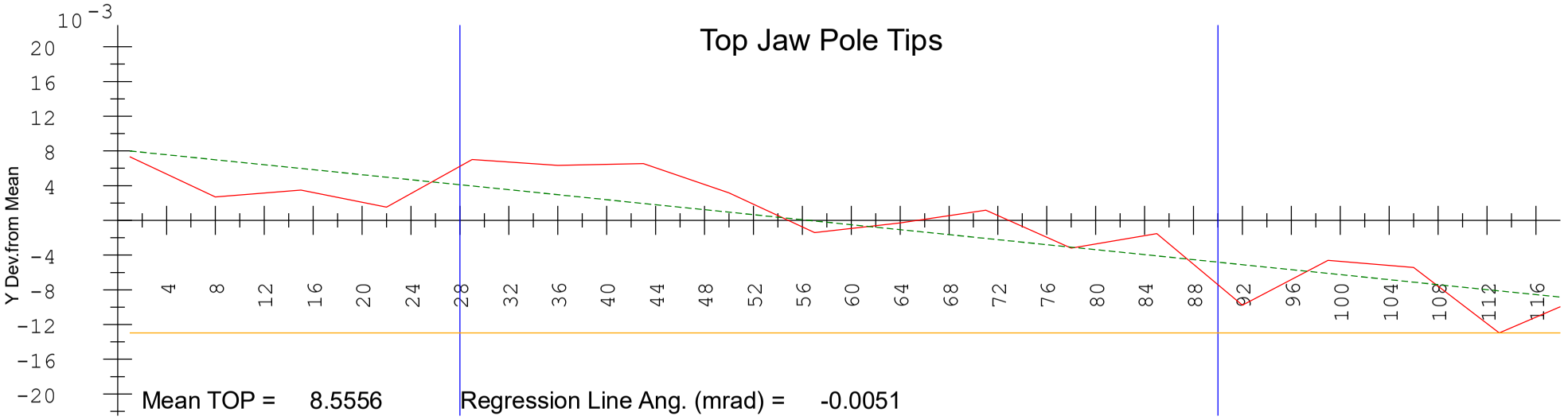
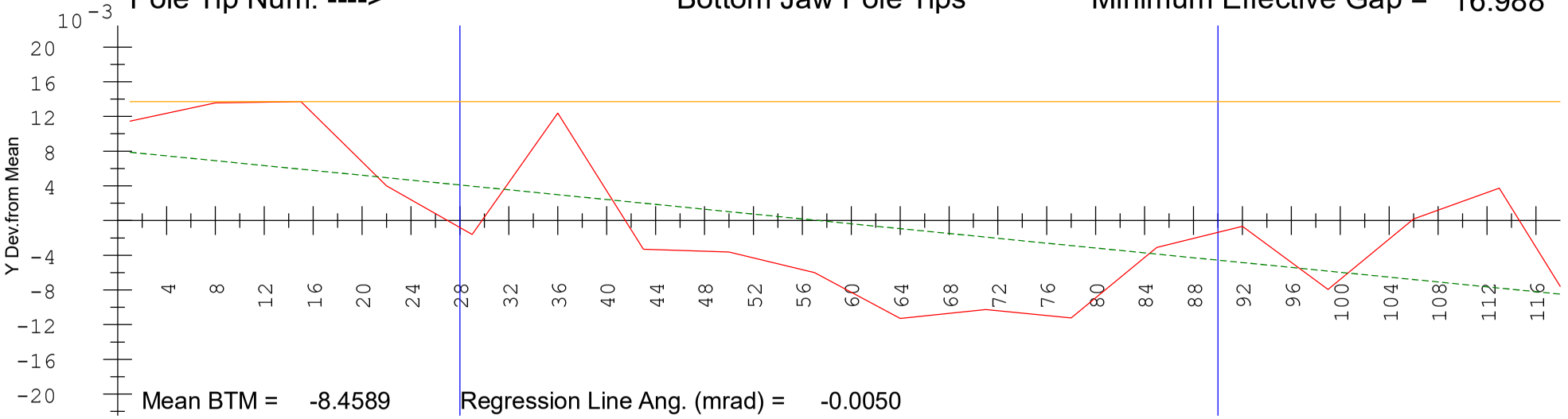


Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 16.988



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

Regression Line Through Points =----------
Dimensions in mm

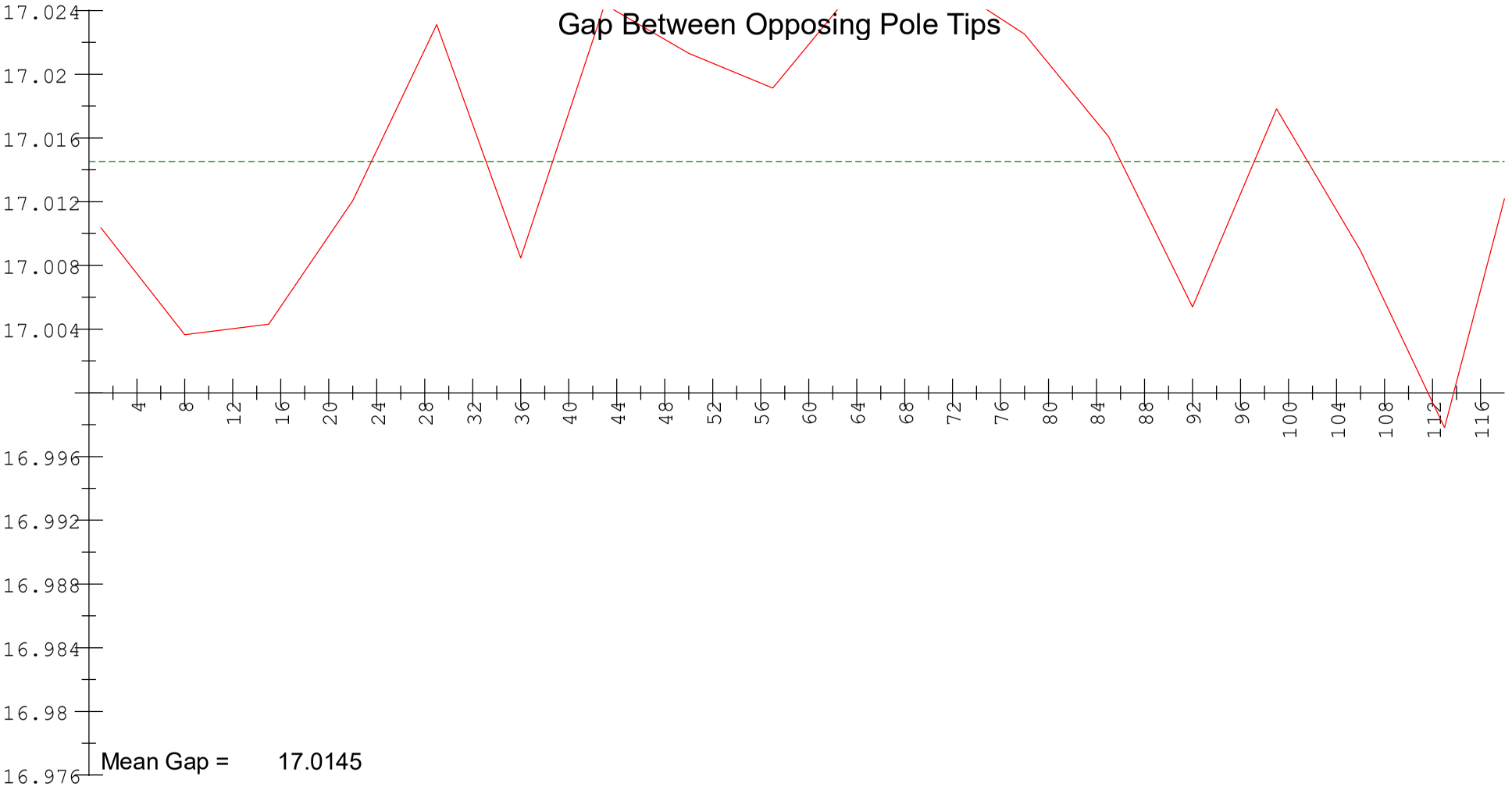
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 17 Nominal Taper = 0.000

Gap Reading = 17.0000 US Encoder = 17.0000 DS Encoder = 17.0000

29-AUG-2022
S/N = 000
D/S= 0001
Run= 10



Step Between Measured Pole Tips = 7

Dimensions in mm

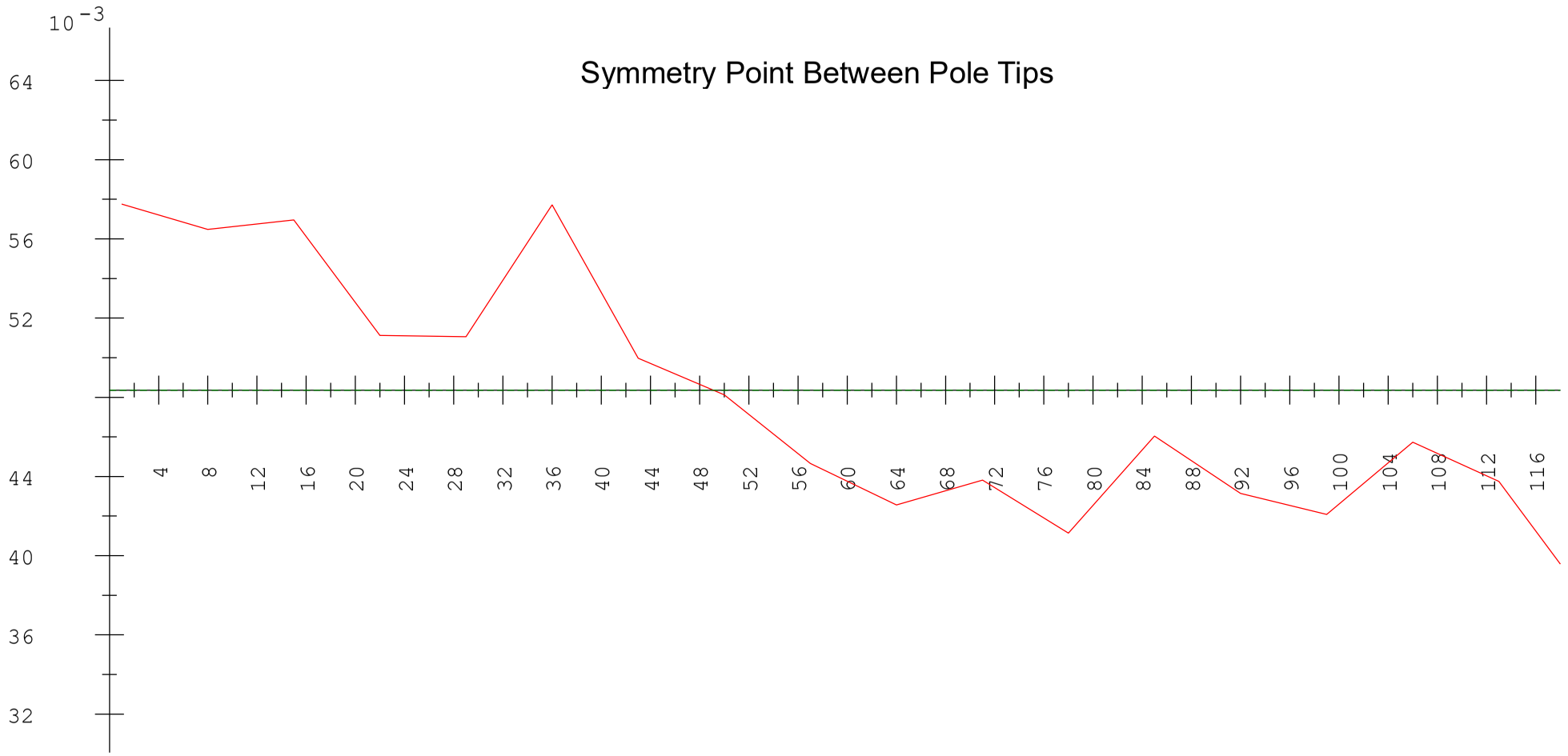
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 17 Nominal Taper = 0.000

Gap Reading = 17.0000 US Encoder = 17.0000 DS Encoder = 17.0000

29-AUG-2022
S/N = 000
D/S= 0001
Run= 10



Mean Symmetry Value = 0.0484

Step Between Measured Pole Tips = 7

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 17 Nominal Taper = 0.000

Gap Reading = 17.0000 US Encoder = 17.0000 DS Encoder = 17.0000

29-AUG-2022
S/N = 000
D/S= 0001
Run= 10

Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 28)	DS Actuator (Pole 90)	Last Pole (Pole 118)
Top	8.5636	8.5597	8.5508	8.5468
Bottom	-8.4510	-8.4548	-8.4635	-8.4674
Gap	17.0146			17.0142
Taper				-0.0005

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
8.5556	-8.4589	17.0145	0.0484

Additional Calculated Values

Bottom Pole #1 Z Value	974.854
Top Jaw Pitch (mrad)	-0.005
Bottom Jaw Pitch(mrad)	-0.005
Minimum Effective Gap	16.988
Reference Block Gap	6.801

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 17 Nominal Taper = 0.000

Gap Reading = 17.0000 US Encoder = 17.0000 DS Encoder = 17.0000

29-AUG-2022
S/N = 000
D/S= 0001
Run= 10