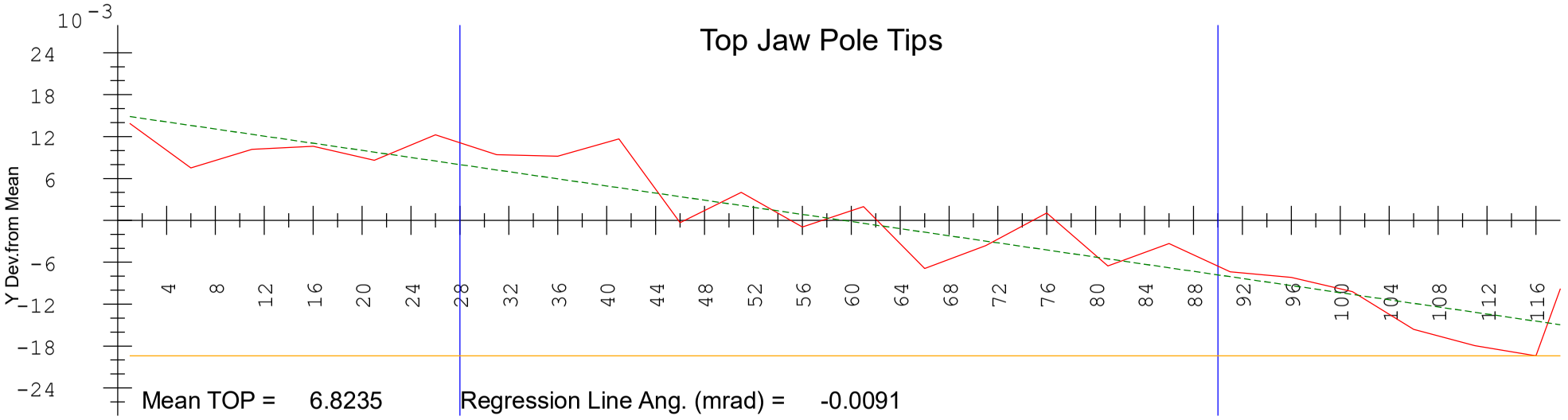
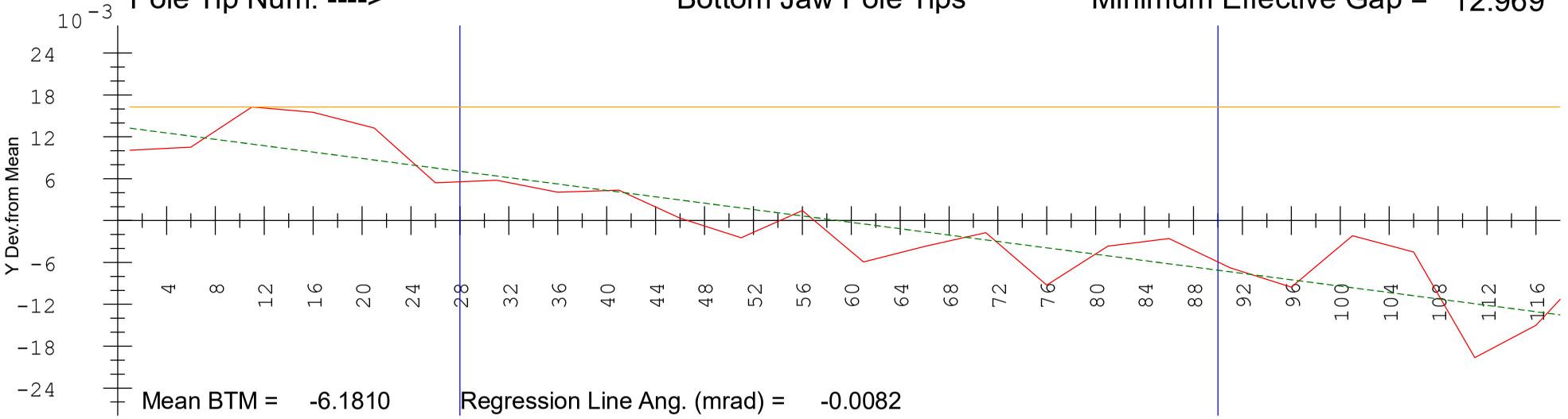


Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 12.969



Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 5

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

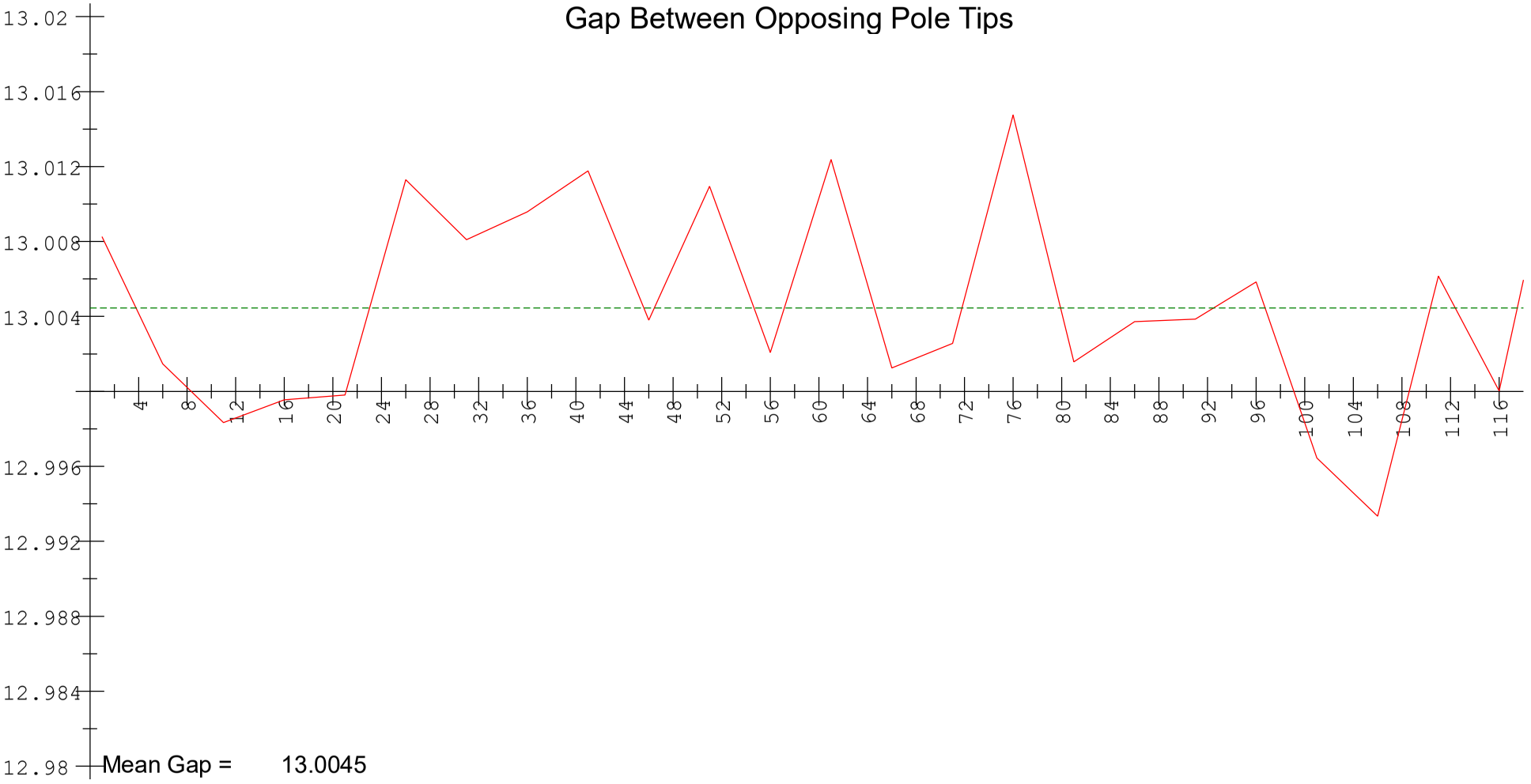
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 13 Nominal Taper = 0.000

Gap Reading = 13.0000 US Encoder = 13.0000 DS Encoder = 13.0000

14-AUG-2024
S/N = 025
D/S= 0001
Run= 6



Step Between Measured Pole Tips = 5

Dimensions in mm

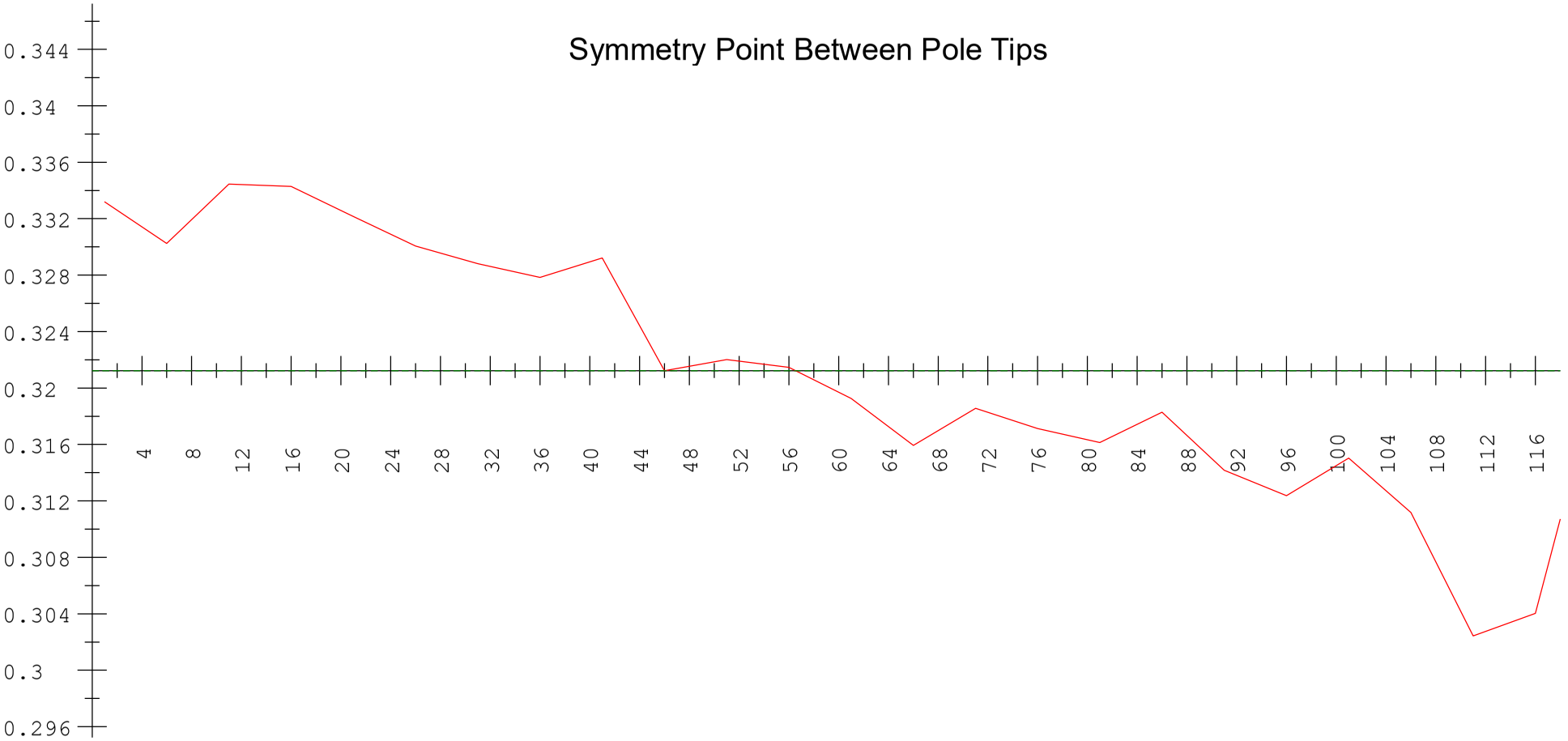
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 13 Nominal Taper = 0.000

Gap Reading = 13.0000 US Encoder = 13.0000 DS Encoder = 13.0000

14-AUG-2024
S/N = 025
D/S= 0001
Run= 6



Mean Symmetry Value = 0.3212

Step Between Measured Pole Tips = 5

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 13 Nominal Taper = 0.000

Gap Reading = 13.0000 US Encoder = 13.0000 DS Encoder = 13.0000

14-AUG-2024
S/N = 025
D/S= 0001
Run= 6

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	6.8383	6.8314	6.8156	6.8085
Bottom	-6.1678	-6.1739	-6.1881	-6.1945
Gap	13.0061			13.0030
Taper				-0.0030

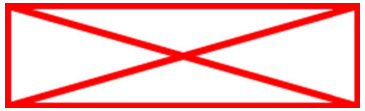
Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.8235	-6.1810	13.0045	0.3212

Additional Calculated Values

Bottom Pole #1 Z Value	979.432
Top Jaw Pitch (mrad)	-0.009
Bottom Jaw Pitch(mrad)	-0.008
Minimum Effective Gap	12.969
Reference Block Gap	6.795

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 13 Nominal Taper = 0.000

Gap Reading = 13.0000 US Encoder = 13.0000 DS Encoder = 13.0000

14-AUG-2024
S/N = 025
D/S= 0001
Run= 6