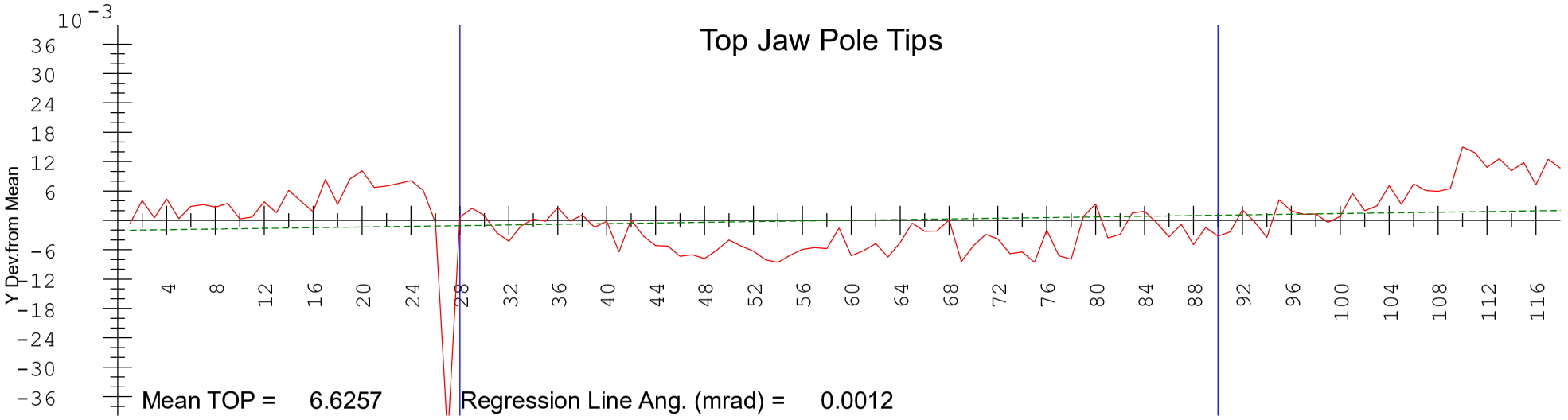
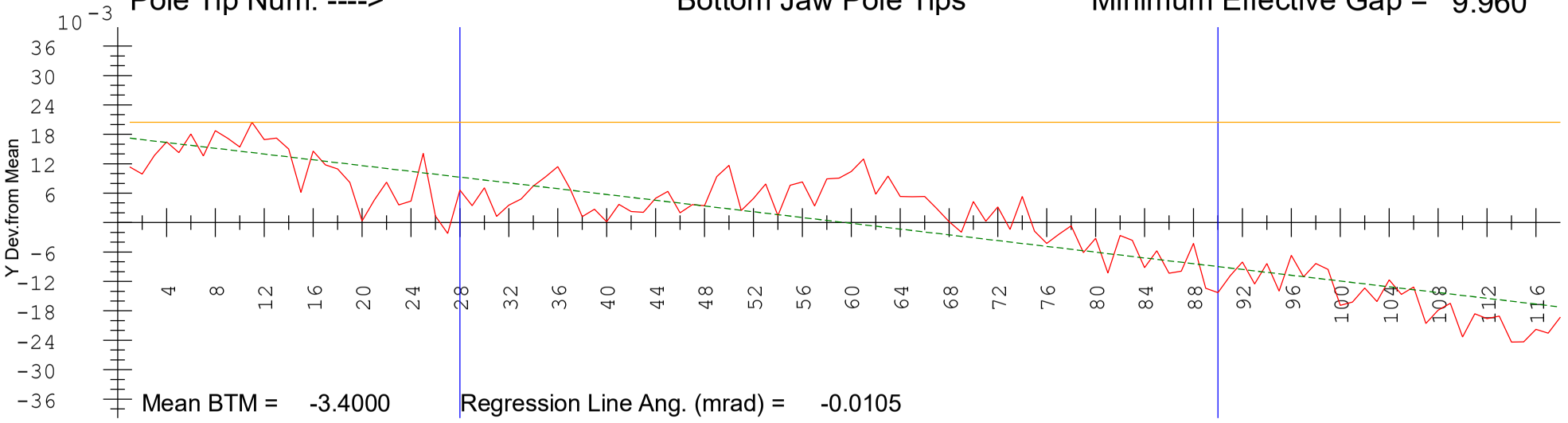


Pole Tip Num. ----> Minimum Effective Gap = 9.960



Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 1

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

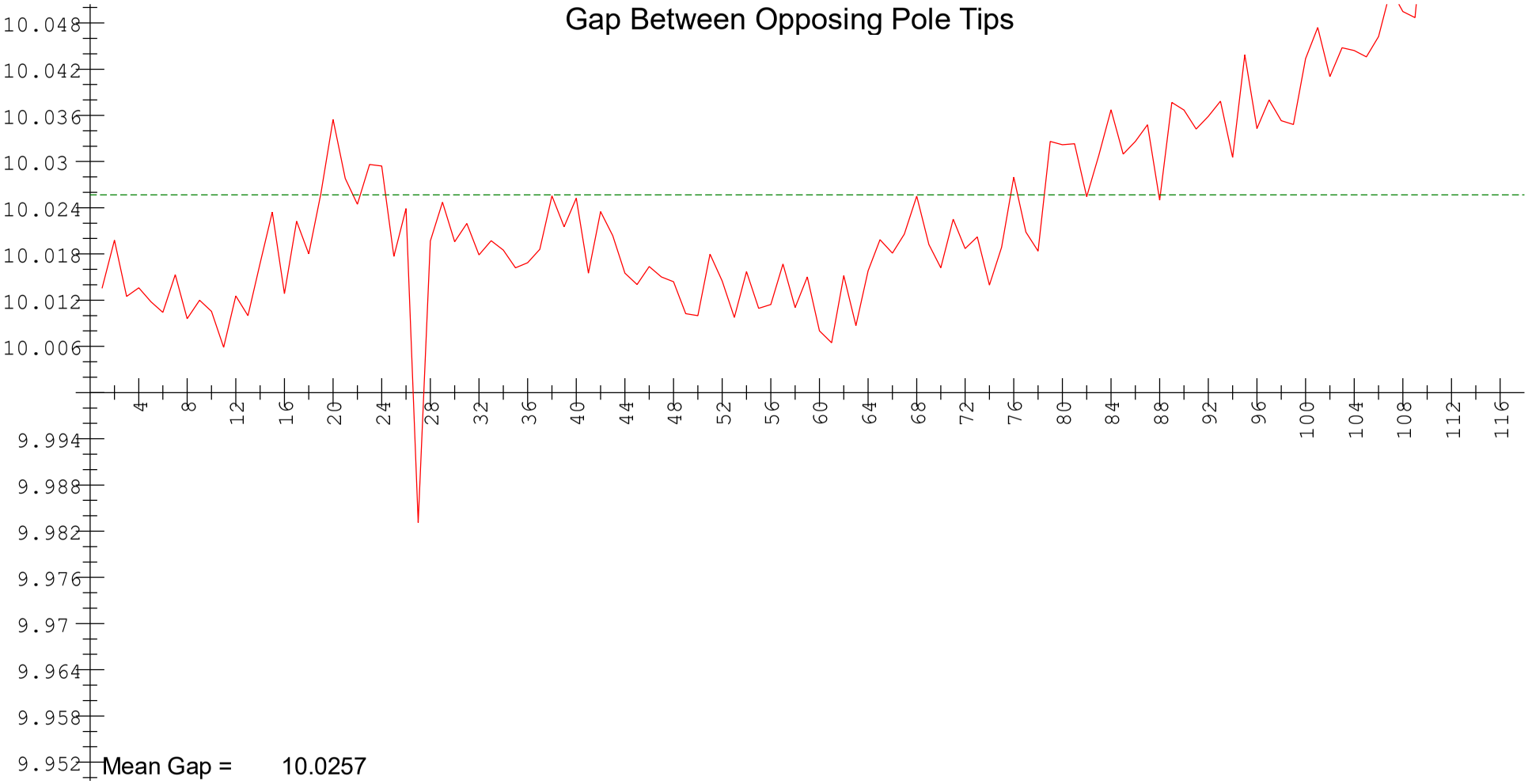
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 9.9998 US Encoder = 9.9995 DS Encoder = 10.0000

16-JUN-2025
S/N = 006
D/S= 0001
Run= 3



Step Between Measured Pole Tips = 1

Dimensions in mm

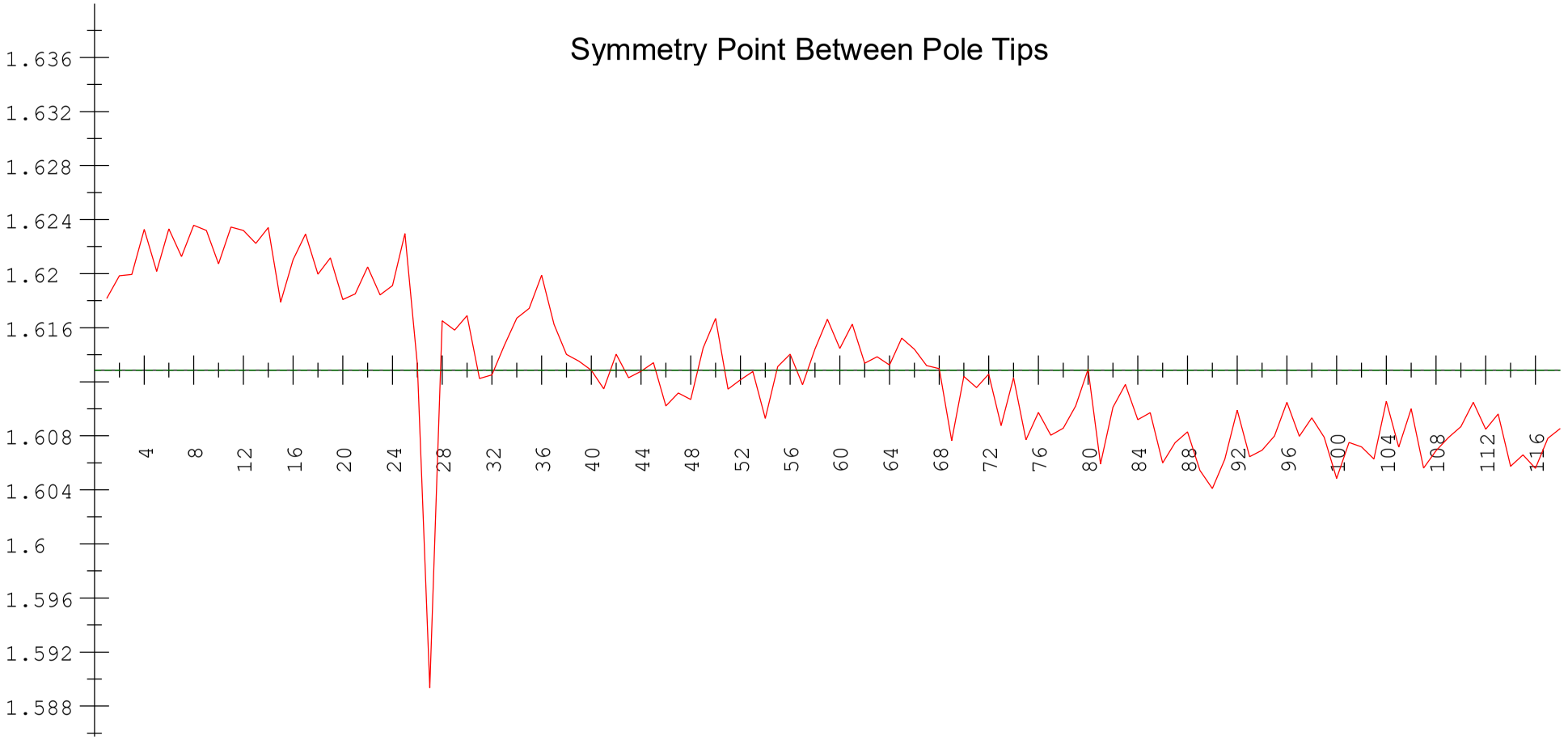
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 9.9998 US Encoder = 9.9995 DS Encoder = 10.0000

16-JUN-2025
S/N = 006
D/S= 0001
Run= 3



Mean Symmetry Value = 1.6129

Step Between Measured Pole Tips = 1

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 9.9998 US Encoder = 9.9995 DS Encoder = 10.0000

16-JUN-2025
S/N = 006
D/S= 0001
Run= 3

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	6.6237	6.6246	6.6267	6.6277
Bottom	-3.3828	-3.3907	-3.4090	-3.4172
Gap	10.0065			10.0449
Taper				0.0384

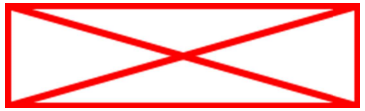
Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.6257	-3.4000	10.0257	1.6129

Additional Calculated Values

Bottom Pole #1 Z Value	978.686
Top Jaw Pitch (mrad)	0.001
Bottom Jaw Pitch(mrad)	-0.011
Minimum Effective Gap	9.960
Reference Block Gap	6.797

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 9.9998 US Encoder = 9.9995 DS Encoder = 10.0000

16-JUN-2025
S/N = 006
D/S= 0001
Run= 3