Y Dev.from Mean

10^{-3}

-24
-18
-12
-6
6
12
18
24

Top Jaw Pole Tips

Pole Tip Num. --->

Mean TOP = 16.5825

Regression Line Ang. (mrad) = -0.0083

Y Dev.from Mean

10^{-3}

-24
-18
-12
-6
6
12
18
24

Bottom Jaw Pole Tips

Minimum Effective Gap = 32.977

Mean BTM = -16.4323

Regression Line Ang. (mrad) = -0.0062

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

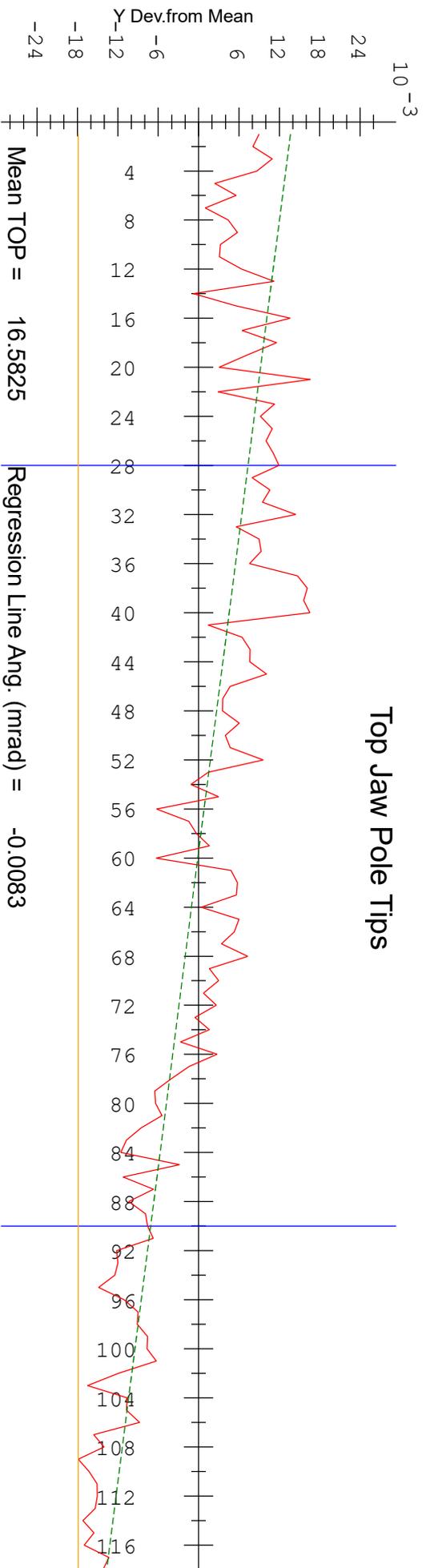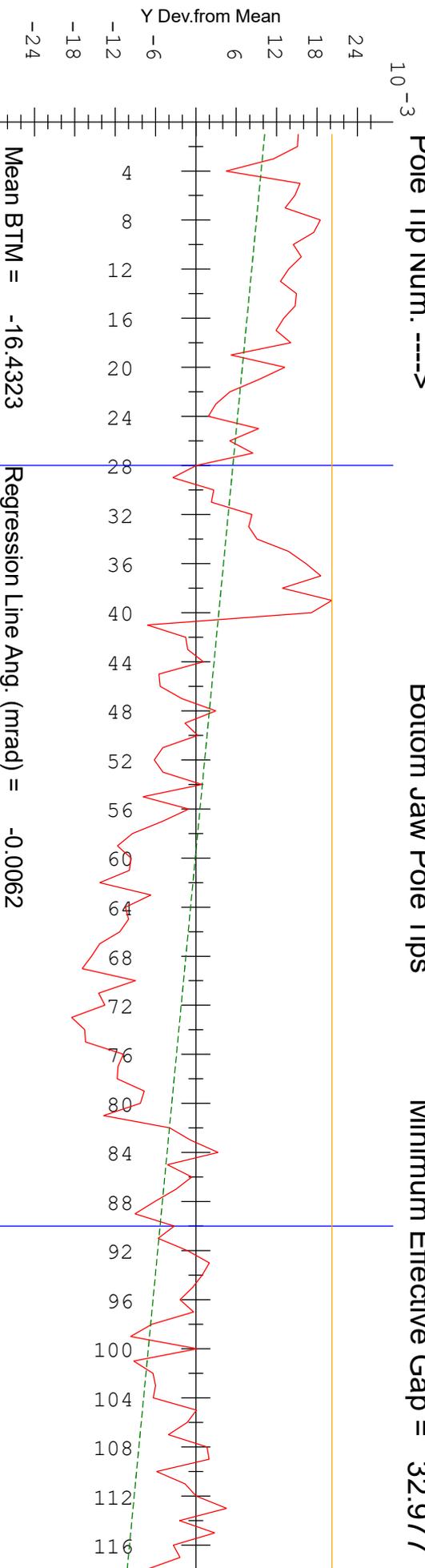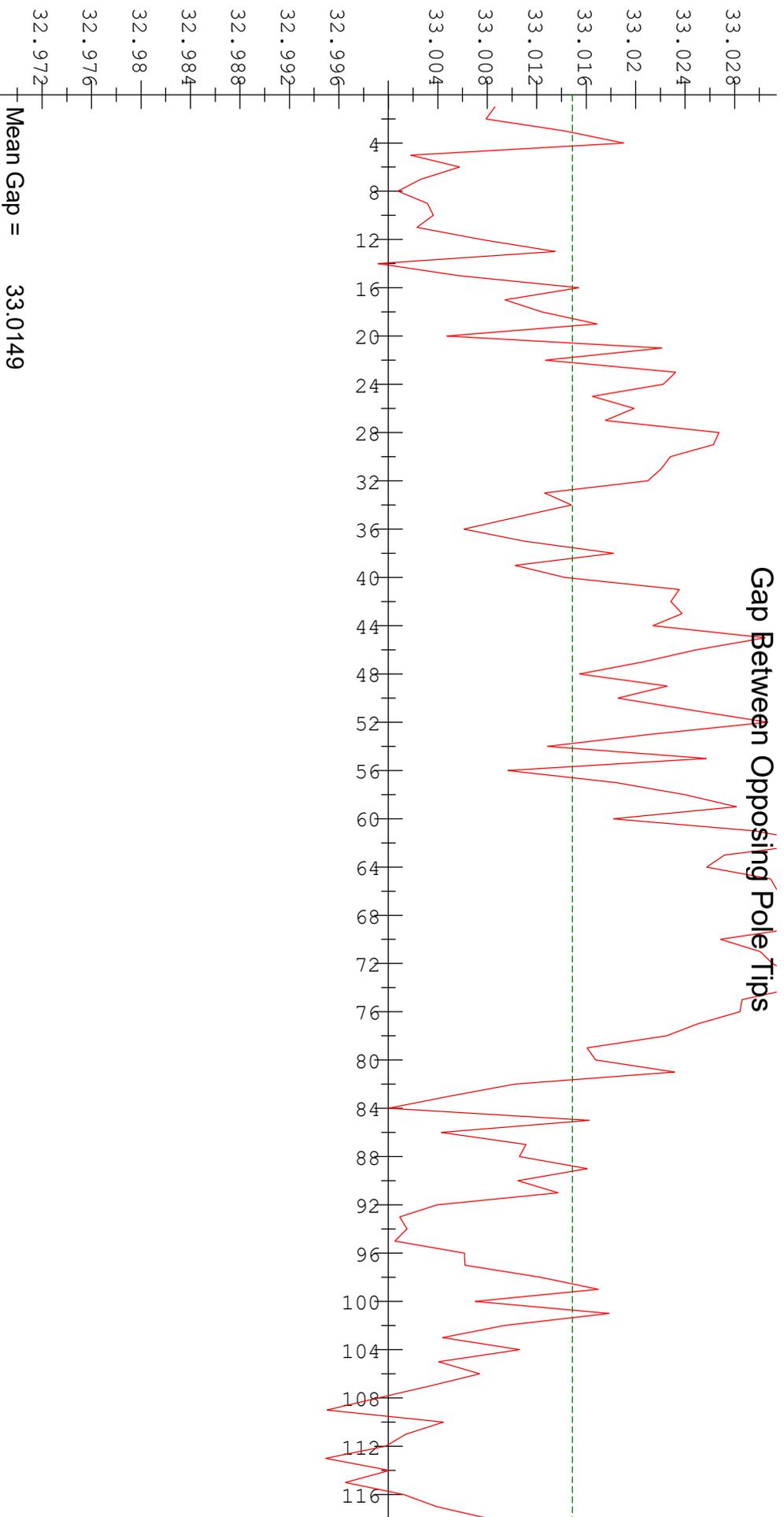Nominal Gap = 33   Nominal Taper = 0.000

Gap Reading = 33.0000   US Encoder = 33.0001   DS Encoder = 33.0000

29-AUG-2022
S/N = 000
D/S= 0001
Run= 1

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 33	Nominal Taper = 0.000	
Gap Reading = 33.0000	US Encoder = 33.0001	DS Encoder = 33.0000

Step Between Measured Pole Tips = 1

Mean Gap = 33.0149

Gap Between Opposing Pole Tips
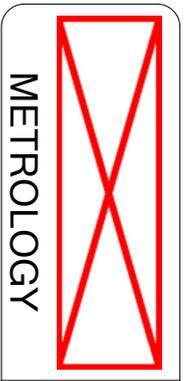
Dimensions in mm

29-AUG-2022
S/N = 000
D/S = 0001
Run= 1
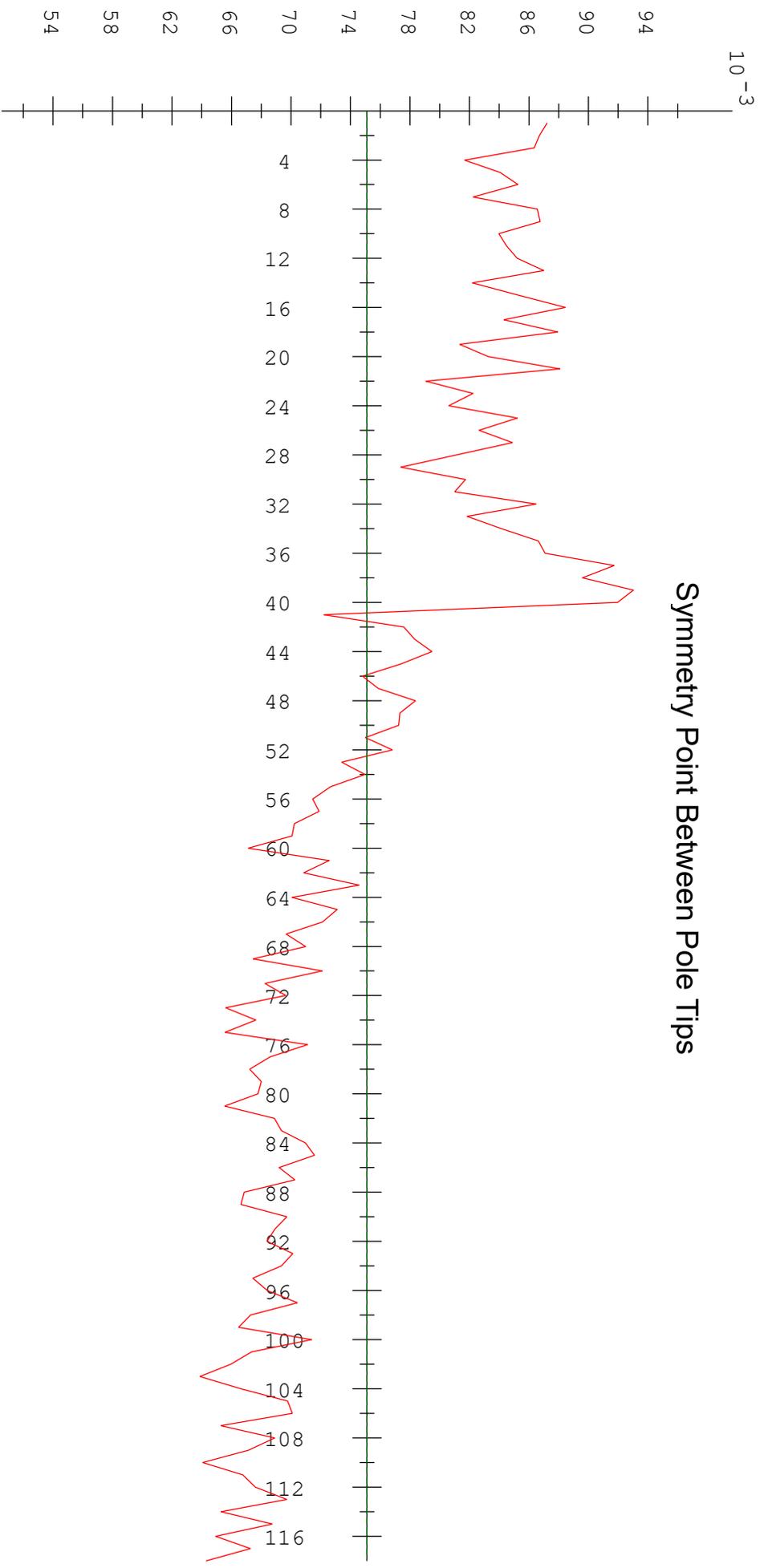
Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0751

Step Between Measured Pole Tips =   1

LCLS II-HE - SXR Undulator

Nominal Gap = 33	Nominal Taper = 0.000	29-AUG-2022
		S/N = 000
		D/S= 0001
Gap Reading = 33.0000	US Encoder = 33.0001	Run= 1
	DS Encoder = 33.0000	

Dimensions in mm

METROLOGY

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	16.5962	16.5899	16.5754	16.5689
Bottom	-16.4221	-16.4268	-16.4377	-16.4426
Gap	33.0183			33.0115
Taper				-0.0069

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
16.5825	-16.4323	33.0149	0.0751

Additional Calculated Values

Bottom Pole #1 Z Value	974.854
Top Jaw Pitch (mrad)	-0.008
Bottom Jaw Pitch(mrad)	-0.006
Minimum Effective Gap	32.977
Reference Block Gap	6.801

LCLS II-HE - SXR Undulator

Nominal Gap = 33   Nominal Taper = 0.000

Gap Reading = 33.0000   US Encoder = 33.0001   DS Encoder = 33.0000

Dimensions in mm

29-AUG-2022
S/N =   000
D/S=   0001
Run=   1