LCLS II-HE - SXR Undulator

METROLOGY

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

Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP = 5.0186   Regression Line Ang. (mrad) = -0.0011

Bottom Jaw Pole Tips

Pole Tip Num. --->

Minimum Effective Gap = 9.975

Mean BTM = -4.9823   Regression Line Ang. (mrad) = 0.0005

Y Dev.from Mean

Regression Line Through Points = _____
Dimensions in mm
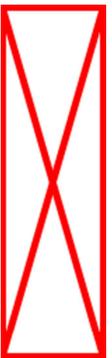
Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

29-AUG-2022
S/N = 000
D/S= 0001
Run= 5

Gap Between Opposing Pole Tips

Mean Gap = 10.0008
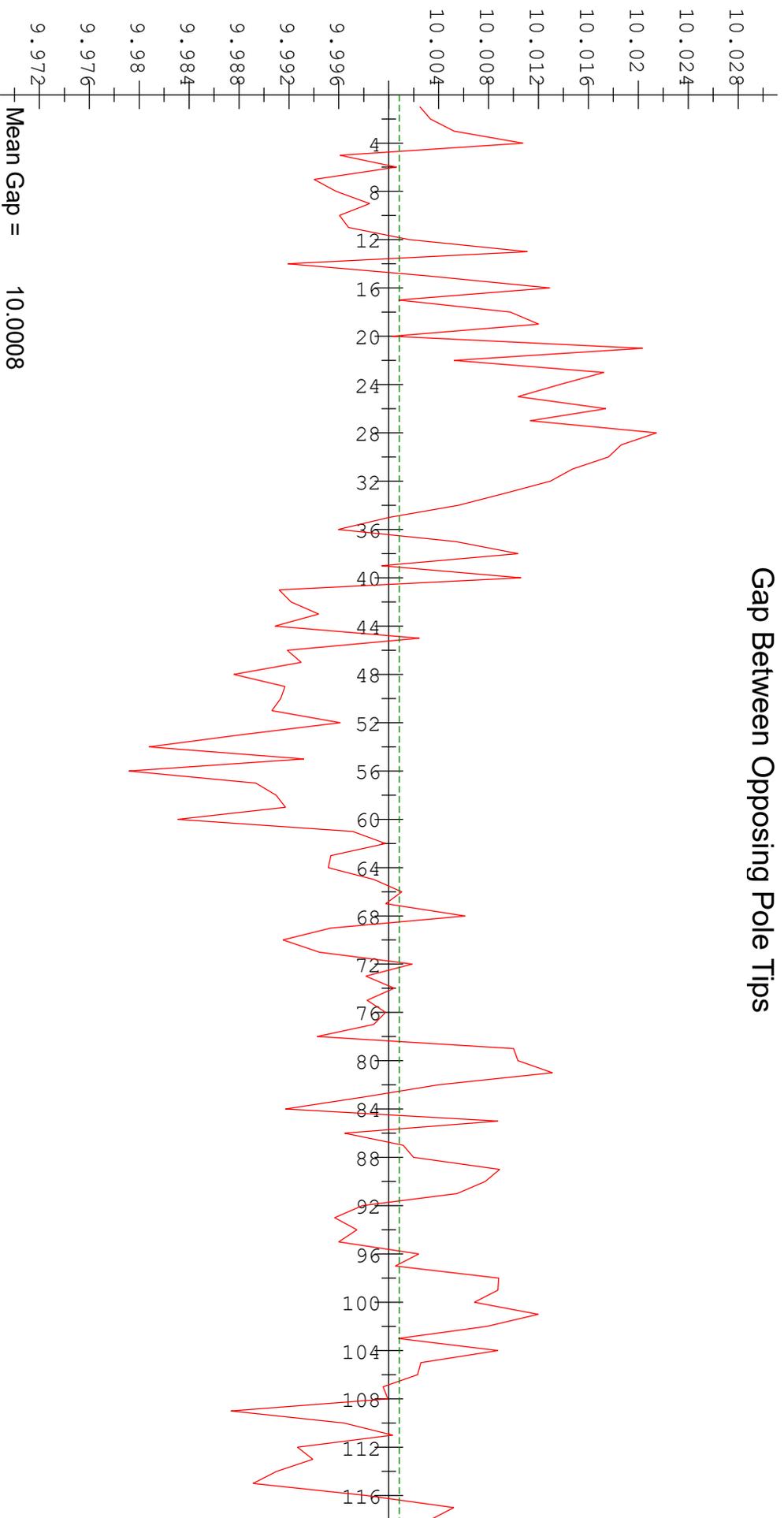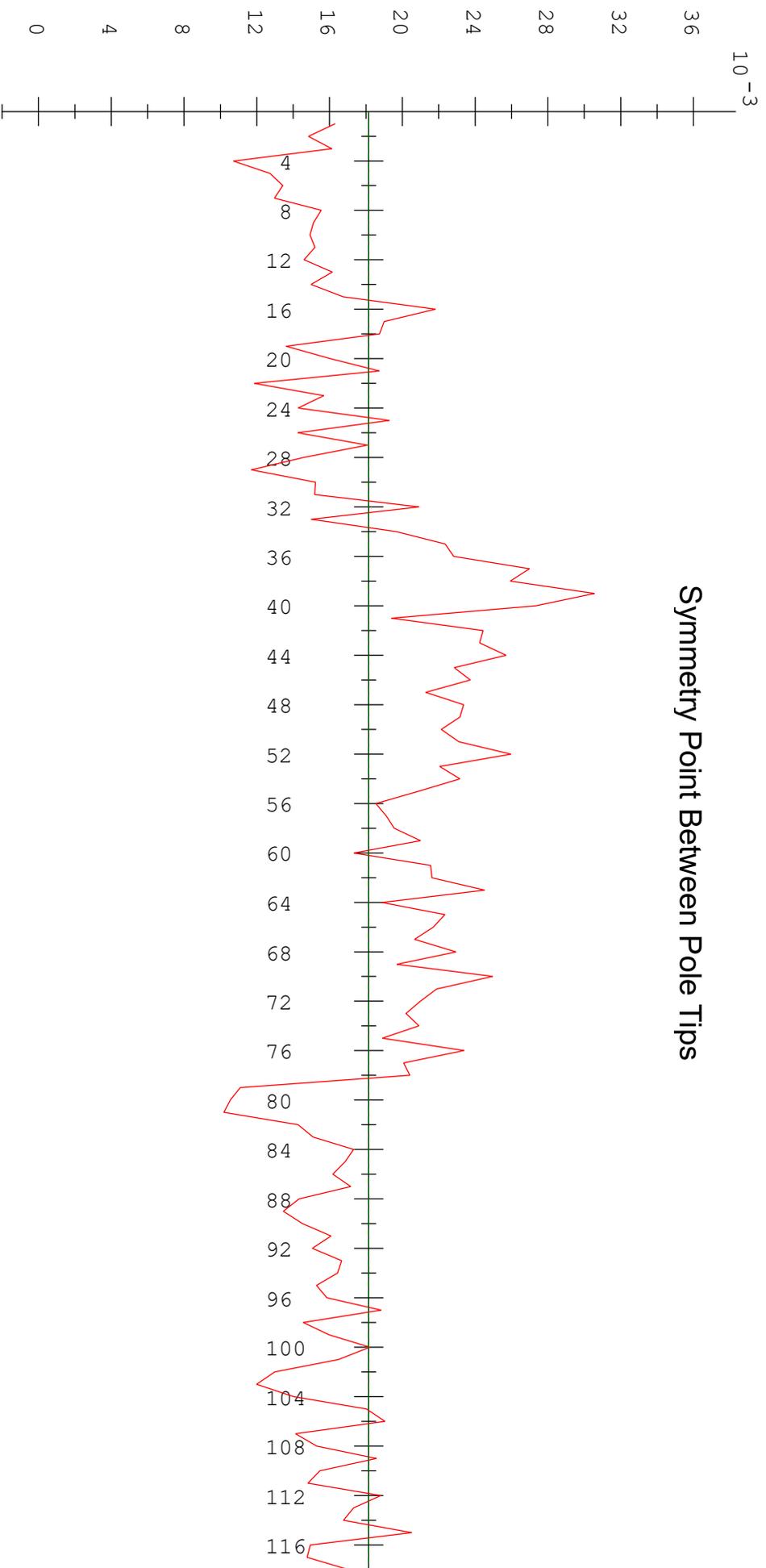
Step Between Measured Pole Tips = 1

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

Dimensions in mm

29-AUG-2022
S/N =   000
D/S=   0001
Run=   5

Symmetry Point Between Pole Tips

Mean Symmetry Value = 0.0182

Step Between Measured Pole Tips = 1

METROLOGY

LCLS II-HE - SXR Undulator

| Nominal Gap = 10 | Nominal Taper = 0.000 |
| Gap Reading = 10.0000 | US Encoder = 10.0000 | DS Encoder = 10.0000 |

Dimensions in mm

29-AUG-2022
S/N = 000
D/S = 0001
Run = 5

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	5.0204	5.0195	5.0176	5.0168
Bottom	-4.9832	-4.9828	-4.9818	-4.9814
Gap	10.0036		9.9981	
Taper				-0.0054

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0186	-4.9823	10.0008	0.0182

Additional Calculated Values

Bottom Pole #1 Z Value	974.854
Top Jaw Pitch (mrad)	-0.001
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.975
Reference Block Gap	6.801

LCLS II-HE - SXR Undulator

Nominal Gap = 10

Nominal Gap = 10.0000

Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

METROLOGY

Dimensions in mm

29-AUG-2022
S/N =   000
D/S=   0001
Run=   5