Top Jaw Pole Tips

Y Dev.from Mean

10^{-3}

36 30 24 18 12 6

-6 -12 -18 -24 -30 -36

Mean TOP = 6.6019

Regression Line Ang. (mrad) = -0.0001

Bottom Jaw Pole Tips

Y Dev.from Mean

10^{-3}

36 30 24 18 12 6

-6 -12 -18 -24 -30 -36

Pole Tip Num. --->

Minimum Effective Gap = 12.945

Mean BTM = -6.4126

Regression Line Ang. (mrad) = 0.0011

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

Regression Line Through Points =
Dimensions in mm

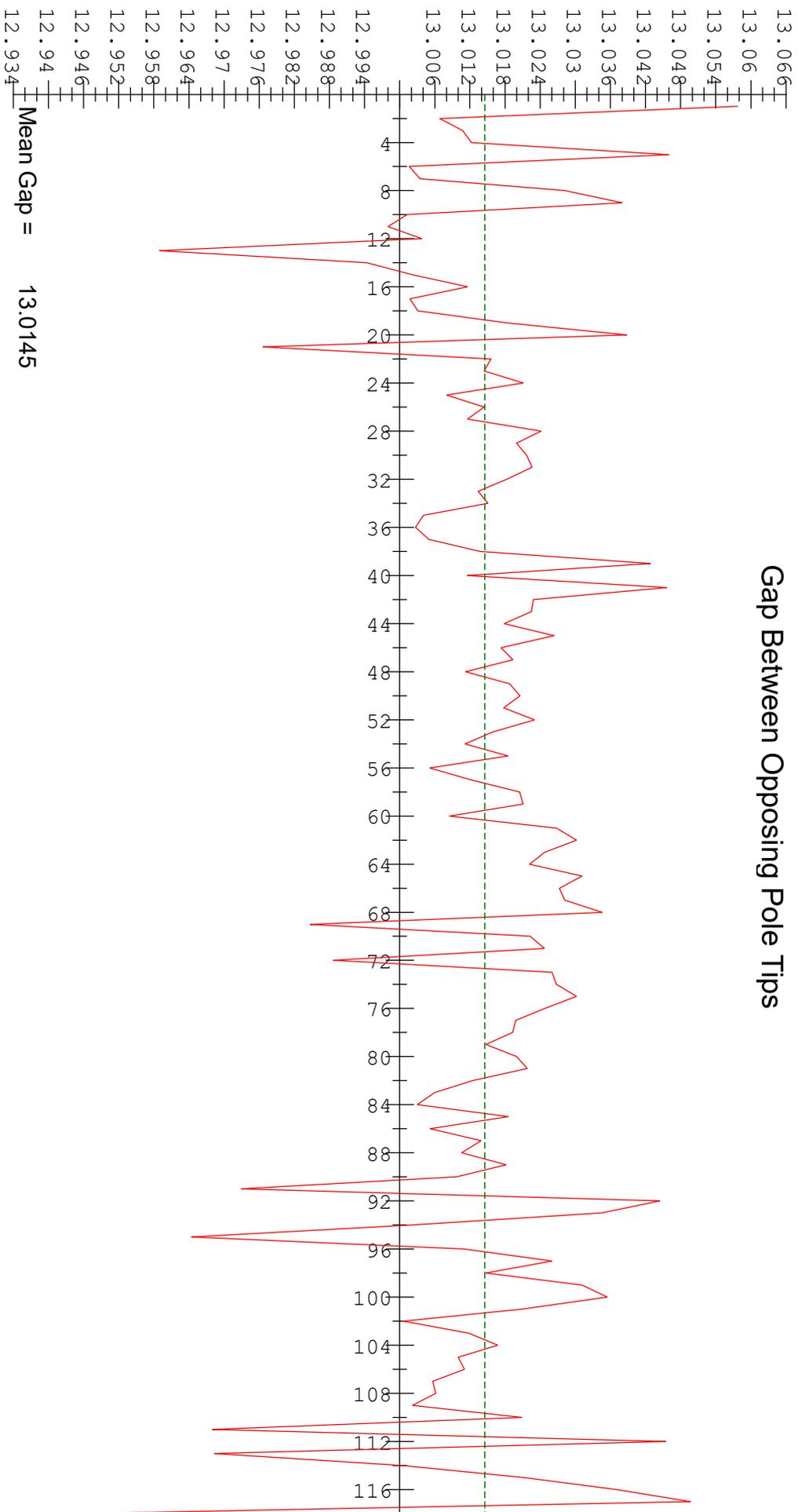**METROLOGY**

LCLS II-HE - SXR Undulator

Nominal Gap = 13   Nominal Taper = 0.000

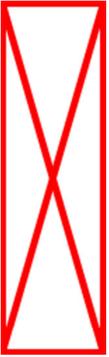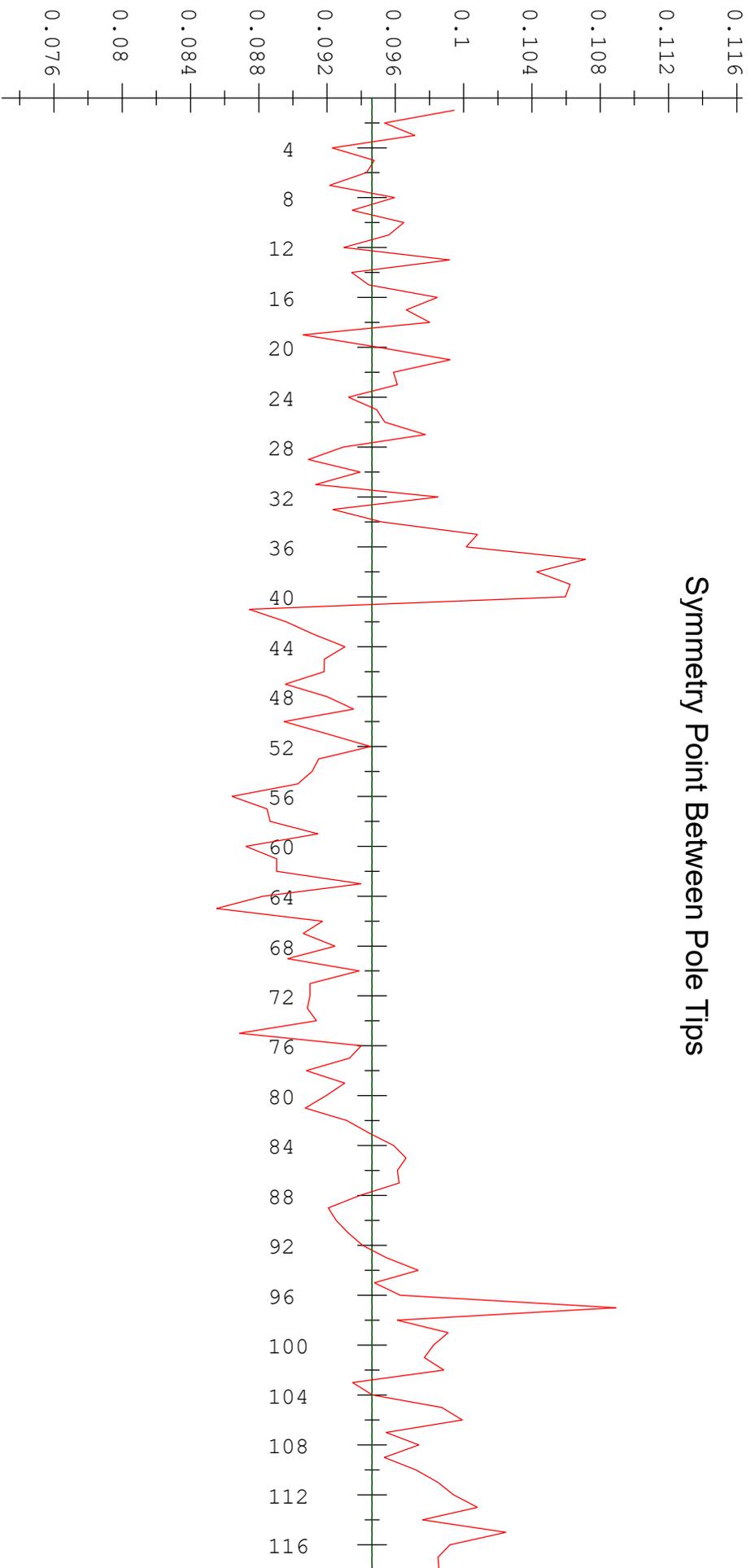Gap Reading = 13.0000   US Encoder = 13.0000   DS Encoder = 13.0000

16-JUL-2024
S/N = 000
D/S = 0003
Run = 7

LCLS II-HE - SXR Undulator

METROLOGY

Gap Between Opposing Pole Tips

Step Between Measured Pole Tips = 1

Mean Gap = 13.0145

| Nominal Gap = 13 | Nominal Taper = 0.000 |
| Gap Reading = 13.0000 | US Encoder = 13.0000 | DS Encoder = 13.0000 |

Dimensions in mm

16-JUL-2024
S/N = 000
D/S= 0003
Run= 7

Symmetry Point Between Pole Tips

METROLOGY

LCLS II-HE - SXR Undulator

Step Between Measured Pole Tips =   1

Mean Symmetry Value =   0.0946

Nominal Gap = 13	Nominal Taper = 0.000	16-JUL-2024
Gap Reading = 13.0000	US Encoder = 13.0000	S/N = 000
	DS Encoder = 13.0000	D/S= 0003

Dimensions in mm

Run=   7

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	6.6020	6.6020	6.6019	6.6018
Bottom	-6.4144	-6.4136	-6.4117	-6.4109
Gap	13.0164			13.0127
Taper				-0.0037

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.6019	-6.4126	13.0145	0.0946

Additional Calculated Values

Bottom Pole #1 Z Value	975.476
Top Jaw Pitch (mrad)	0.000
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	12.945
Reference Block Gap	6.794

LCLS II-HE - SXR Undulator

Nominal Gap = 13

Gap Reading = 13.0000   US Encoder = 13.0000

Nominal Taper = 0.000

DS Encoder = 13.0000

METROLOGY

16-JUL-2024
S/N = 000
D/S= 0003
Run= 7

Dimensions in mm