

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

LCLS II-HE - SXR Undulator

Nominal Gap = 10

Nominal Taper = -0.100

Gap Reading = 9.9500

US Encoder = 10.0000

DS Encoder = 9.9000

16-JUL-2024

S/N = 023

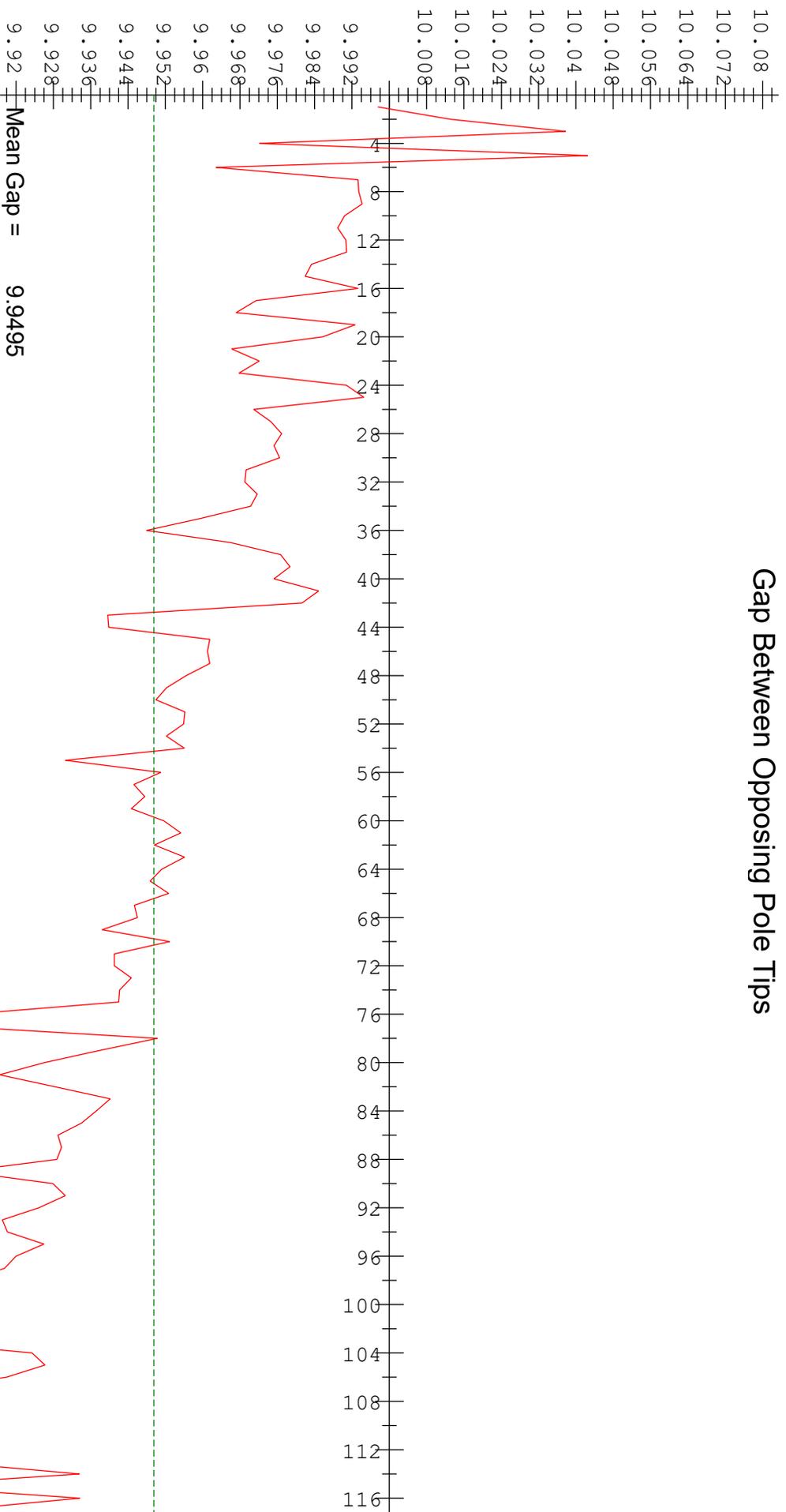
D/S = 0001

Run = 31



METROLOGY

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



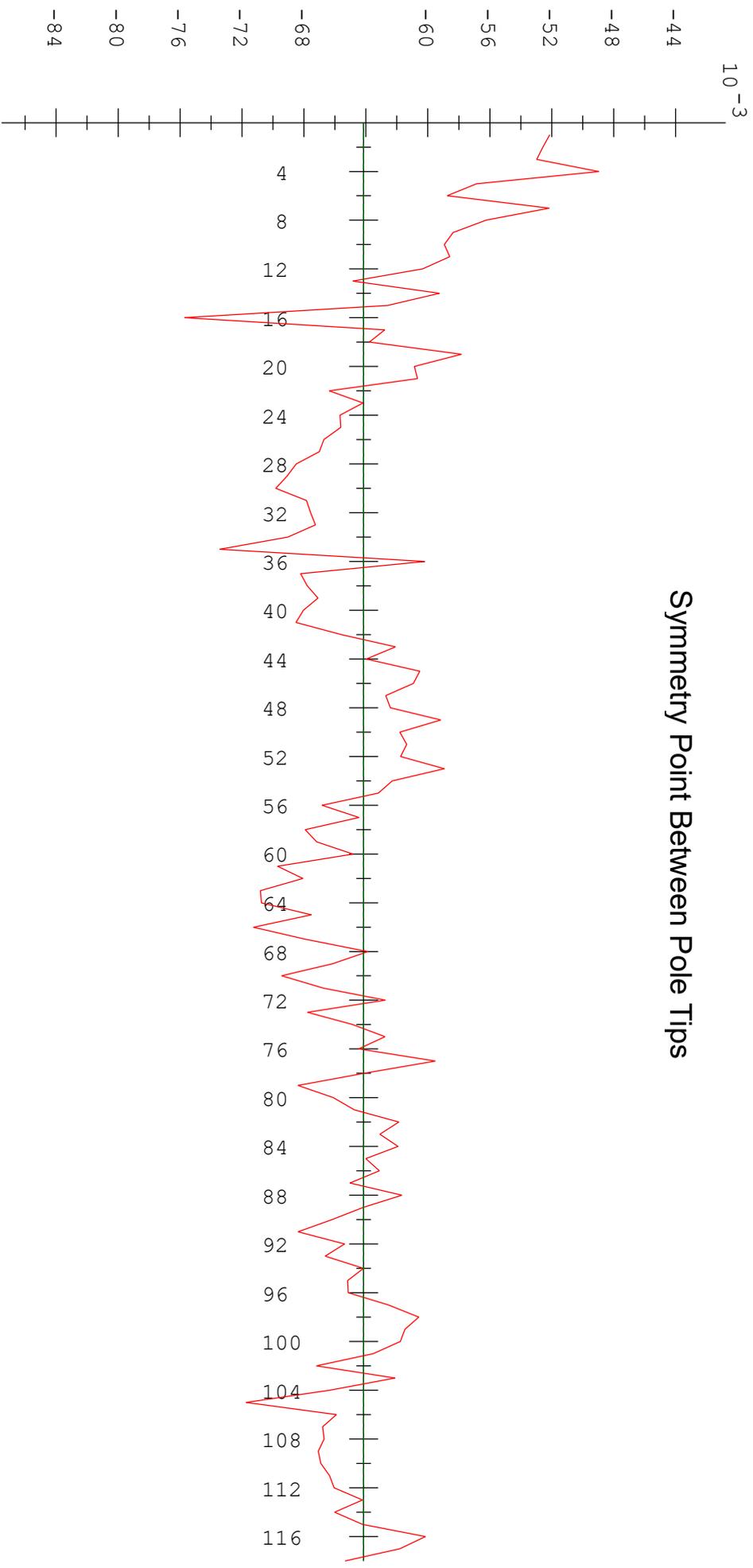
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100
Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

16-JUL-2024
S/N = 023
D/S = 0001
Run = 31

Symmetry Point Between Pole Tips



Mean Symmetry Value = -0.0641

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10

Gap Reading = 9.9500

US Encoder = 10.0000

Nominal Taper = -0.100

DS Encoder = 9.9000

16-JUL-2024

S/N = 023

D/S = 0001

Run = 31

Top and Bottom Jaw Regression Line Intersect Points

Jaw	First Pole <i>(Pole -1)</i>	US Actuator <i>(Pole 28)</i>	DS Actuator <i>(Pole 90)</i>	Last Pole <i>(Pole 118)</i>
Top	4.9373	4.9250	4.8967	4.8839
Bottom	-5.0607	-5.0507	-5.0275	-5.0171
Gap	9.9980			9.9010
Taper				-0.0970

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9106	-5.0389	9.9495	-0.0641

Additional Calculated Values

Bottom Pole #1 Z Value	979.450
Top Jaw Pitch (mrad)	-0.016
Bottom Jaw Pitch(mrad)	0.013
Minimum Effective Gap	9.892
Reference Block Gap	6.799

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100
 Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

16-JUL-2024
 S/N = 023
 D/S = 0001
 Run = 31