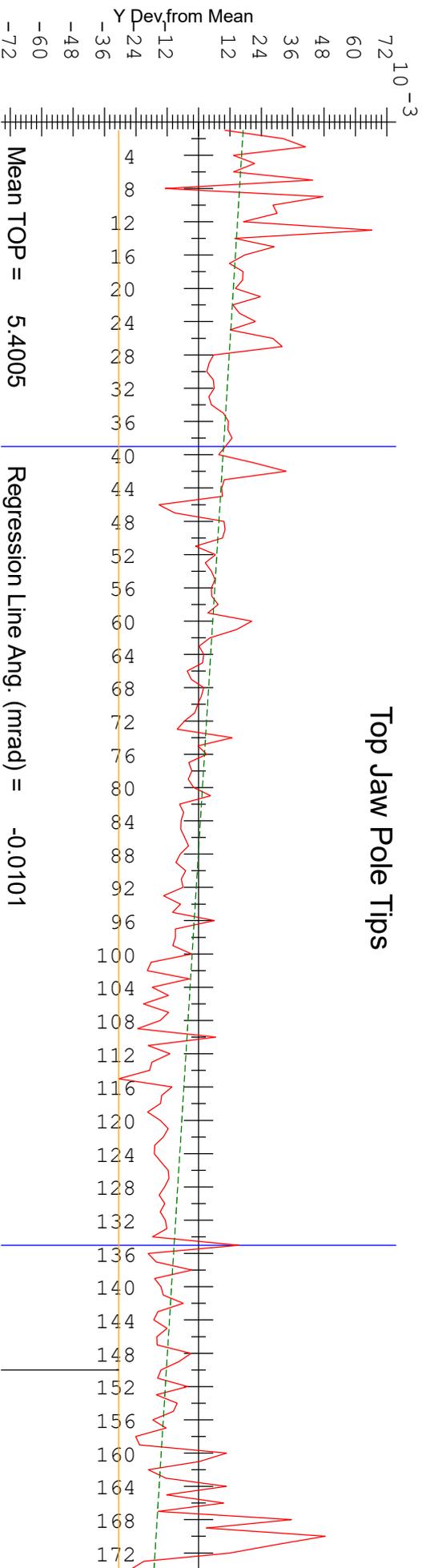
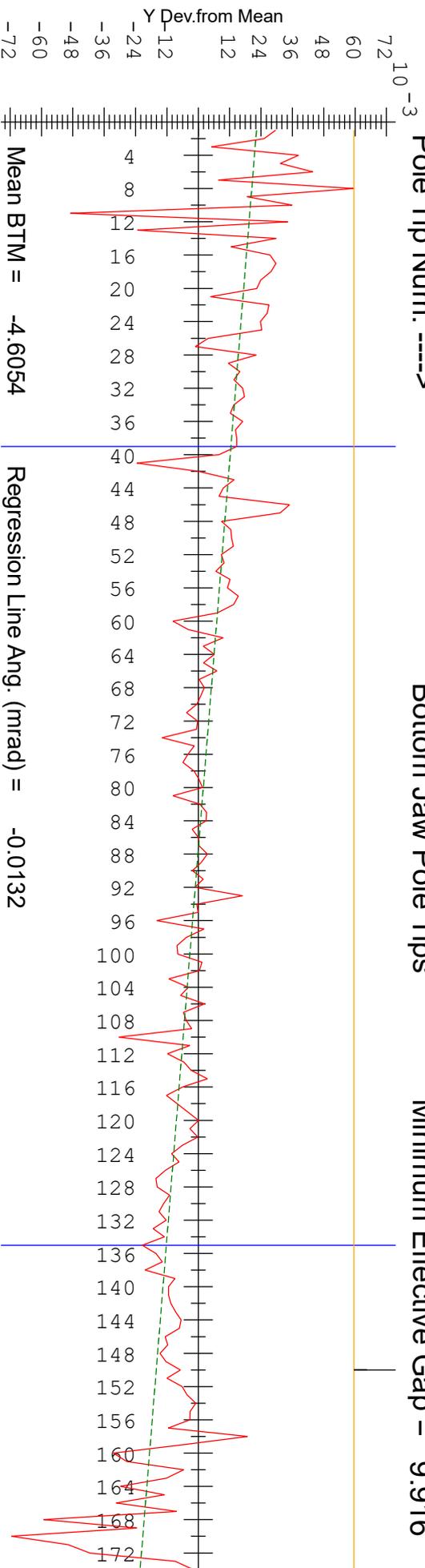


Top Jaw Pole Tips



Pole Tip Num. ---->



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

Regression Line Through Points = 8
Dimensions in mm



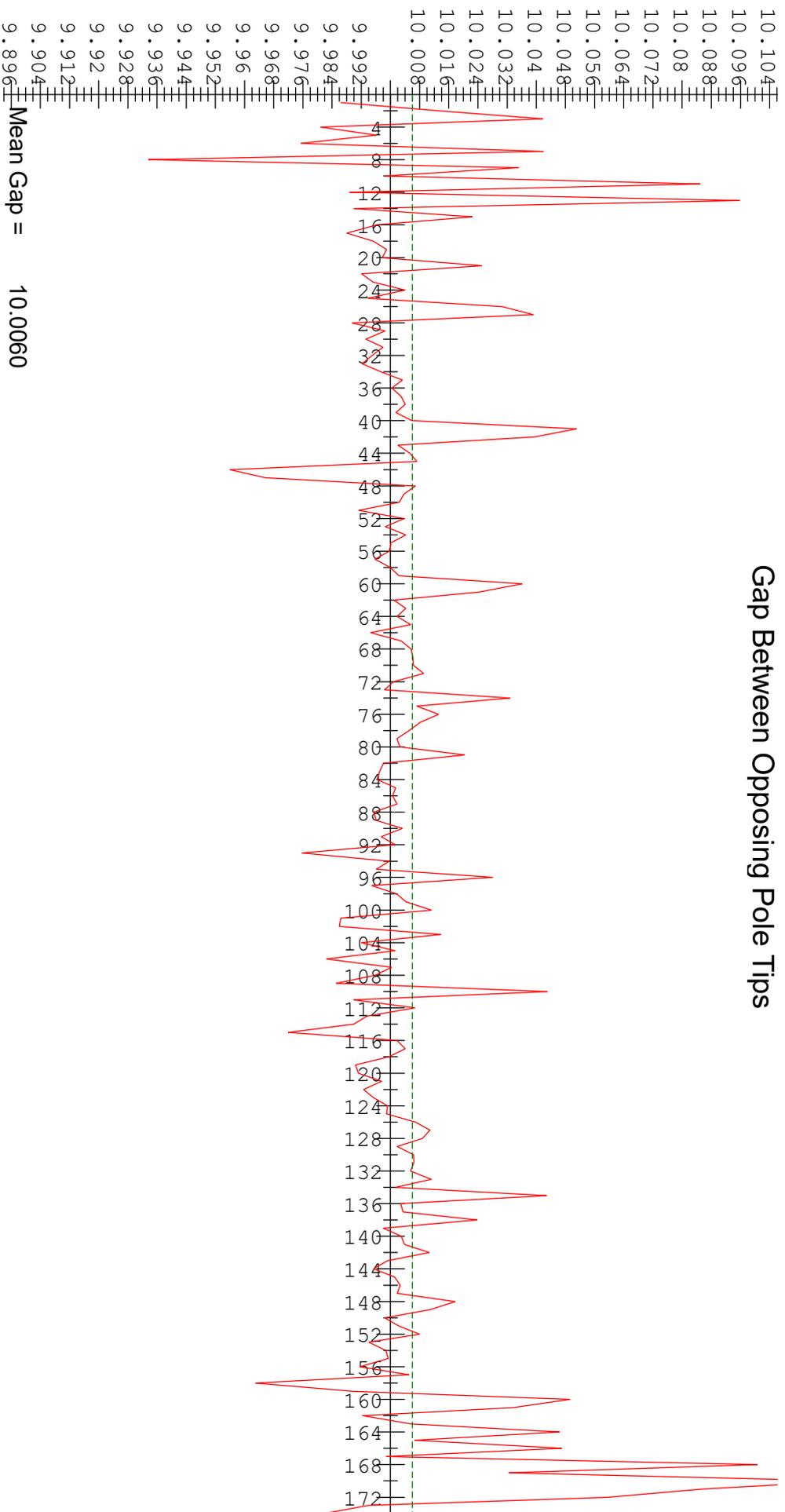
METROLOGY

LCLS II - SXR Undulator

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

19-JUL-2021
S/N = 021
D/S = 0002
Run = 8

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



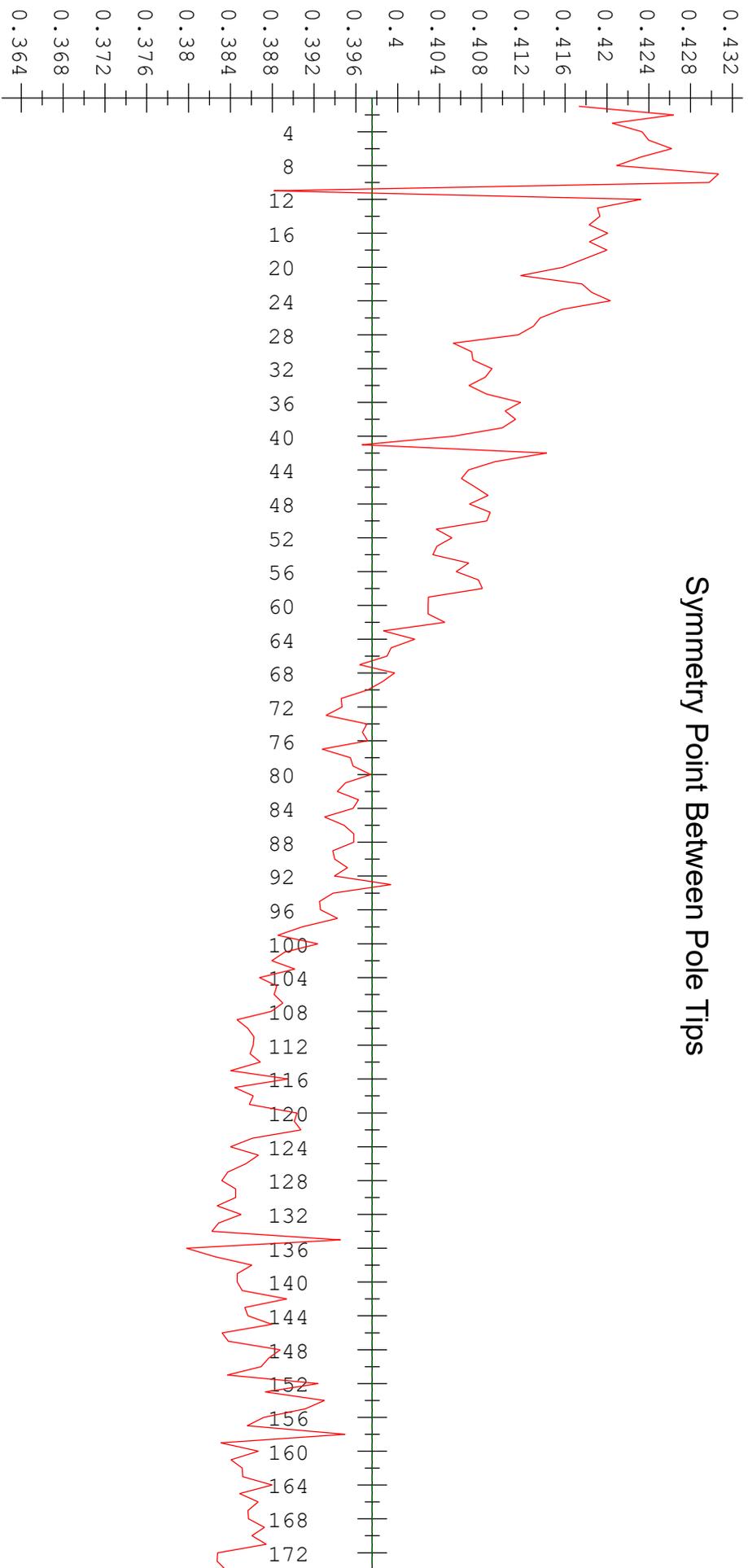
METROLOGY

LCLS II - SXR Undulator

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

19-JUL-2021
S/N = 021
D/S = 0002
Run = 8

Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.3976

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

LCLS II - SXR Undulator

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

19-JUL-2021
S/N = 021
D/S = 0002
Run = 8

Top and Bottom Jaw Regression Line Intersect Points

Jaw	First Pole <i>(Pole -1)</i>	US Actuator <i>(Pole 39)</i>	DS Actuator <i>(Pole 135)</i>	Last Pole <i>(Pole 174)</i>
Top	5.4176	5.4101	5.3912	5.3835
Bottom	-4.5832	-4.5930	-4.6177	-4.6277
Gap	10.0008			10.0112
Taper				0.0104

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.4005	-4.6054	10.0060	0.3976

Additional Calculated Values

Bottom Pole #1 Z Value	980.192
Top Jaw Pitch (mrad)	-0.010
Bottom Jaw Pitch(mrad)	-0.013
Minimum Effective Gap	9.916
Reference Block Gap	6.797

Dimensions in mm



METROLOGY

LCLS II - SXR Undulator

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

19-JUL-2021
S/N = 021
D/S = 0002
Run = 8