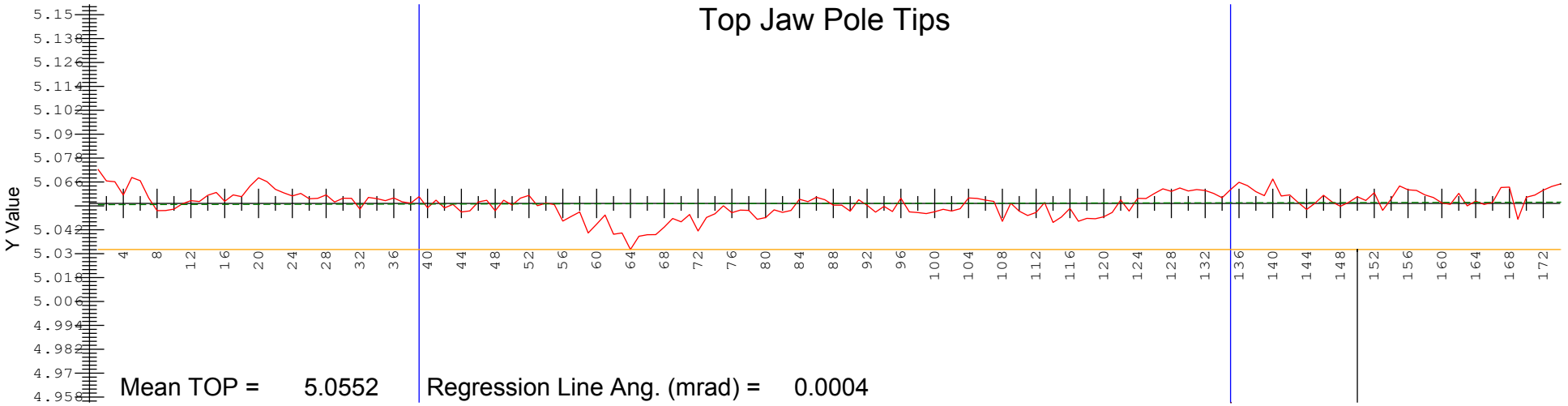
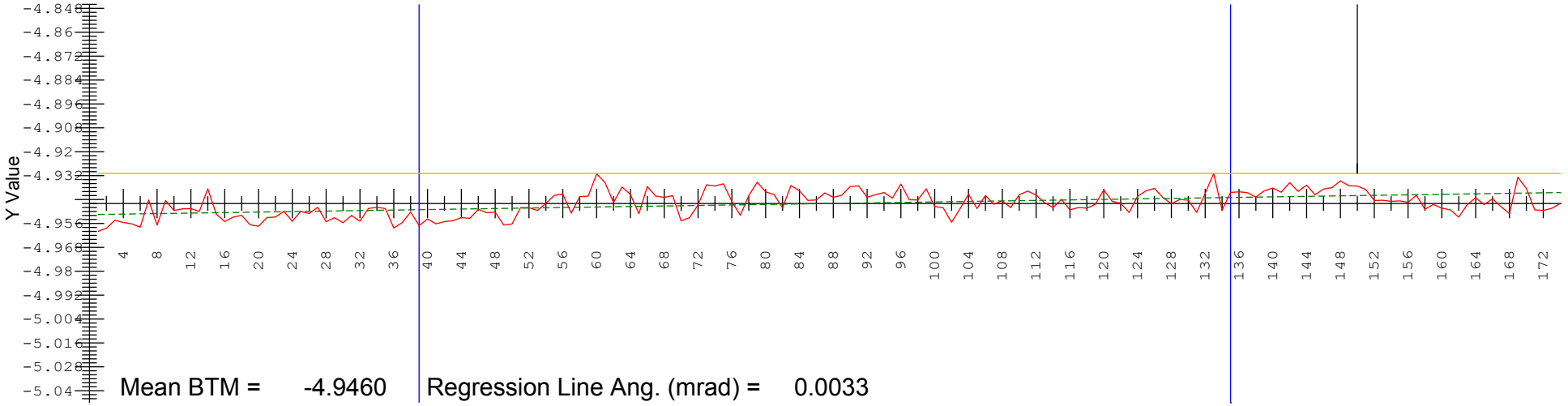


Mean TOP = 5.0552 Regression Line Ang. (mrad) = 0.0004

Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 9.963



Mean BTM = -4.9460 Regression Line Ang. (mrad) = 0.0033

Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 1

Regression Line Through Points =----------

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

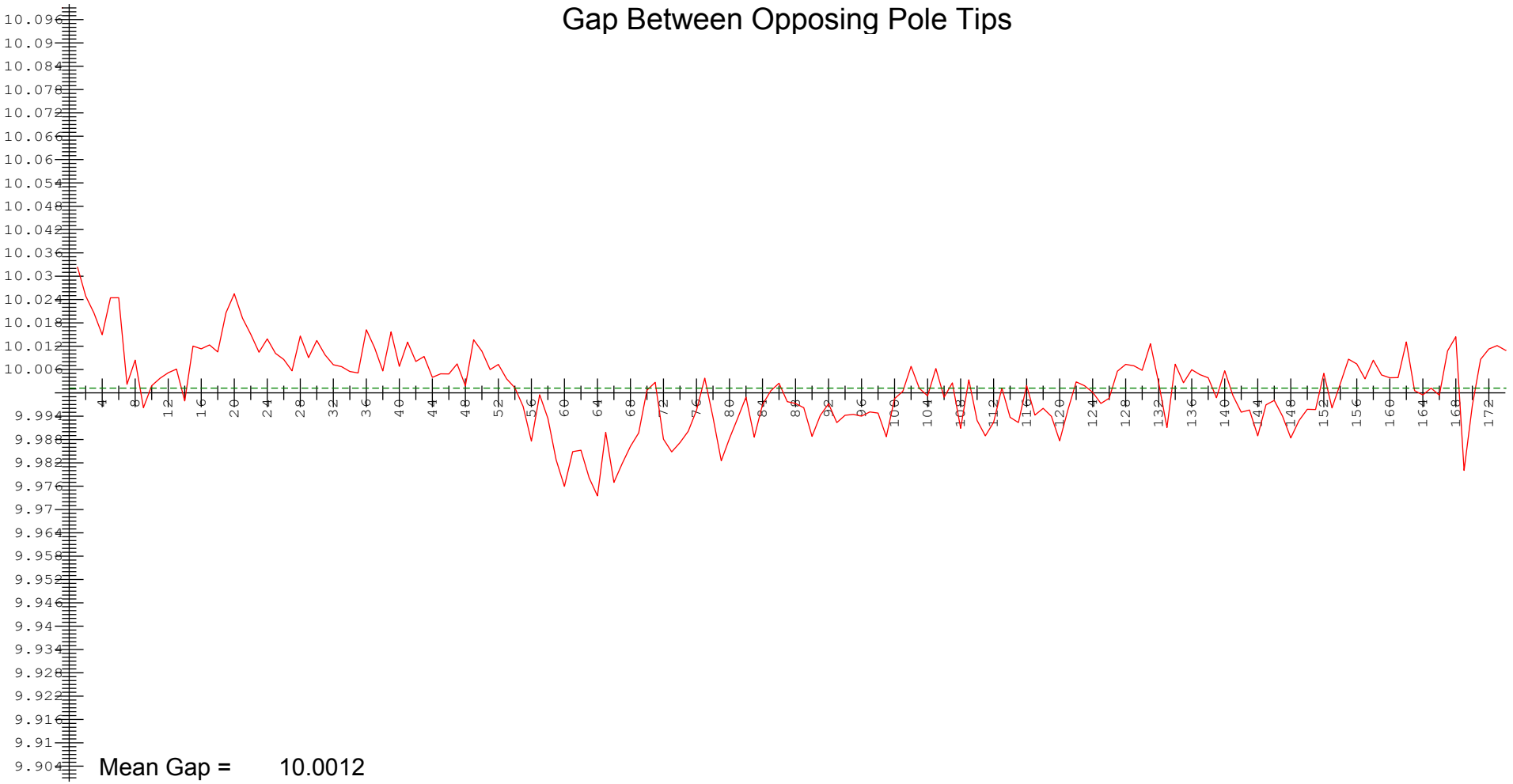
LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 9.9998 US Encoder = 9.9995 DS Encoder = 10.0001

11-DEC-2017
S/N = 006
D/S= 0001
Run= 04

Gap Between Opposing Pole Tips



Mean Gap = 10.0012

Step Between Measured Pole Tips = 1

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

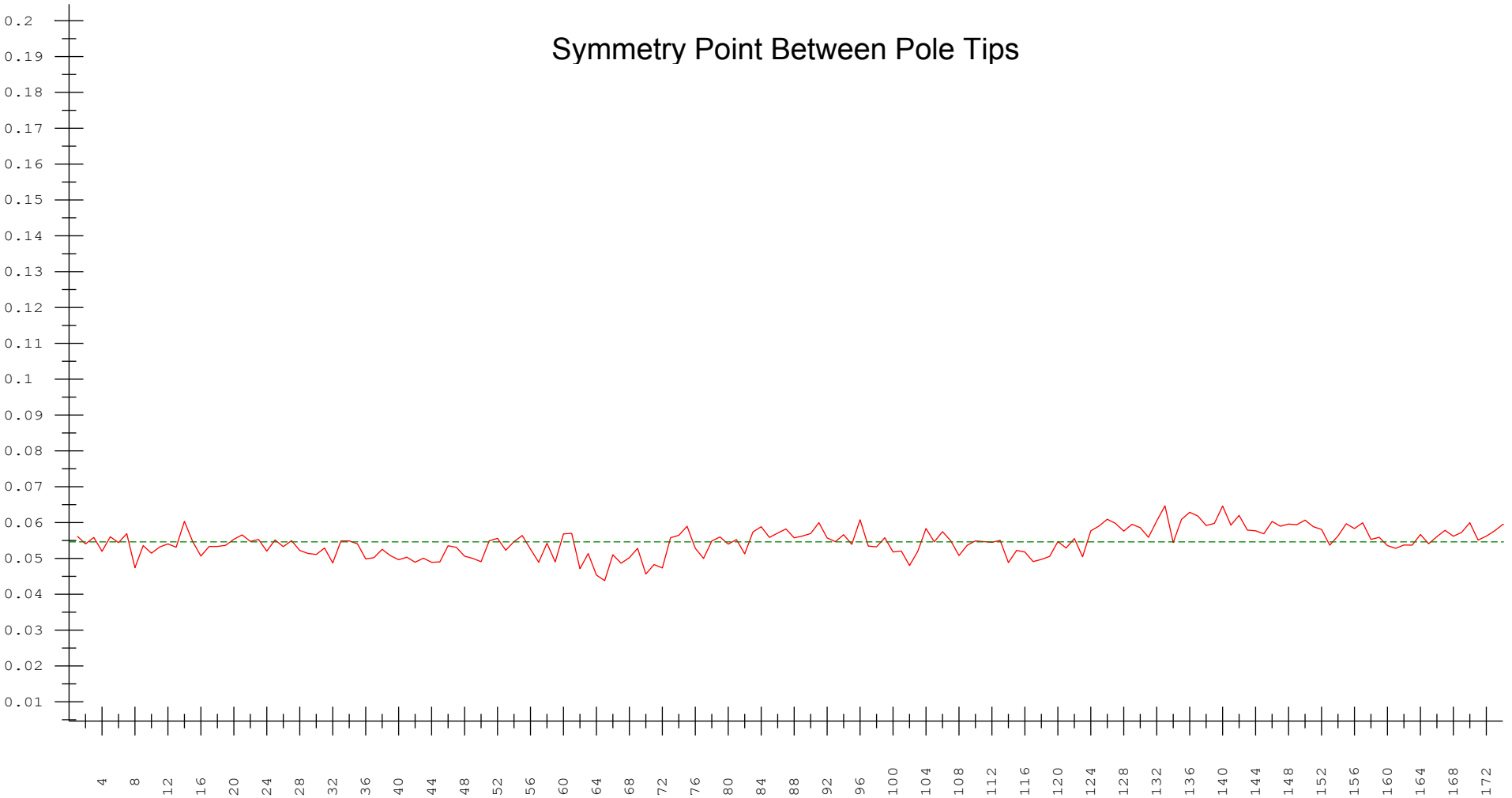
LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 9.9998 US Encoder = 9.9995 DS Encoder = 10.0001

11-DEC-2017
S/N = 006
D/S= 0001
Run= 04

Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.0546

Step Between Measured Pole Tips = 1

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 9.9998 US Encoder = 9.9995 DS Encoder = 10.0001

11-DEC-2017
S/N = 006
D/S= 0001
Run= 04

Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 39)	DS Actuator (Pole 135)	Last Pole (Pole 174)
Top	5.0546	5.0549	5.0556	5.0558
Bottom	-4.9515	-4.9491	-4.9430	-4.9405

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0552	-4.9460	10.0012	0.0546

Additional Calculated Vlaues

Bottom Pole #1 Z Value	979.309
Top Jaw Pitch (mrad)	0.000
Bottom Jaw Pitch(mrad)	0.003
Minimum Effective Gap	9.963
Reference Block Gap	6.808

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 9.9998 US Encoder = 9.9995 DS Encoder = 10.0001

11-DEC-2017
S/N = 006
D/S= 0001
Run= 04