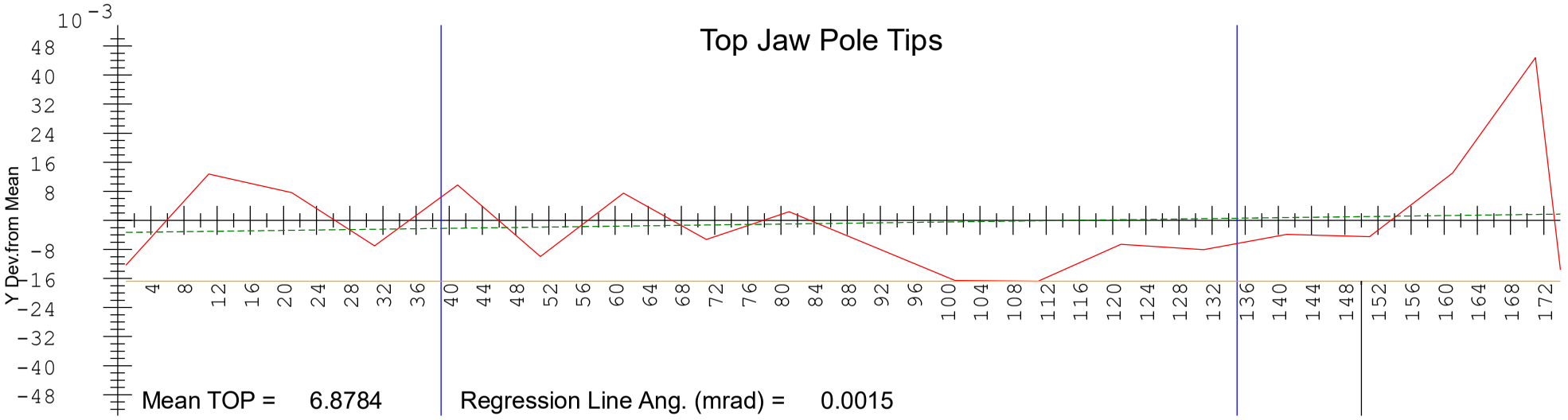
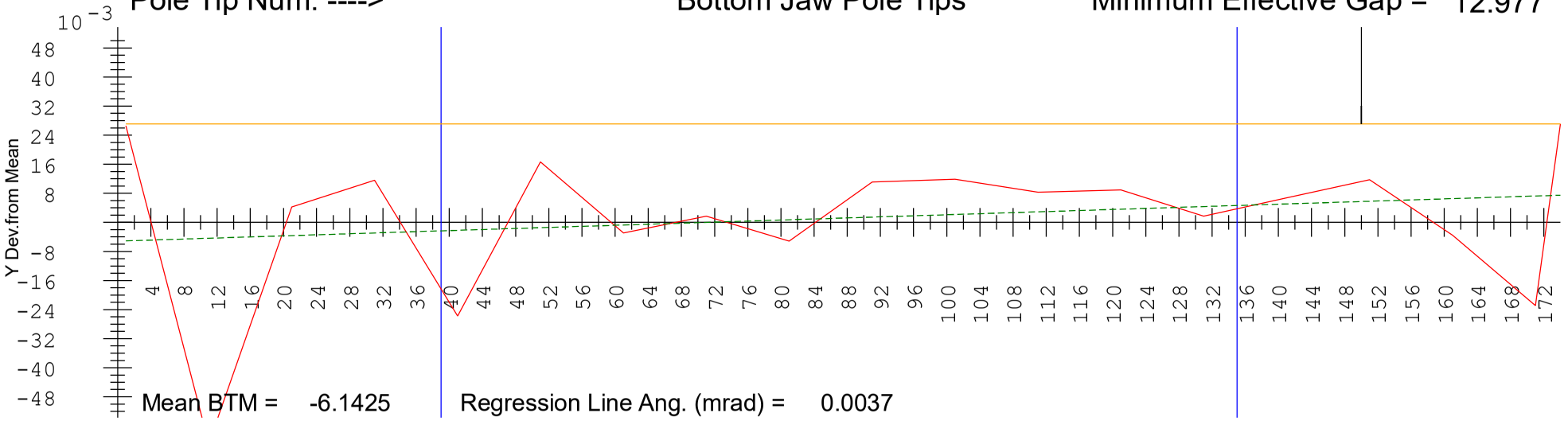



Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 12.977




Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 10

Regression Line Through Points =----------
Dimensions in mm

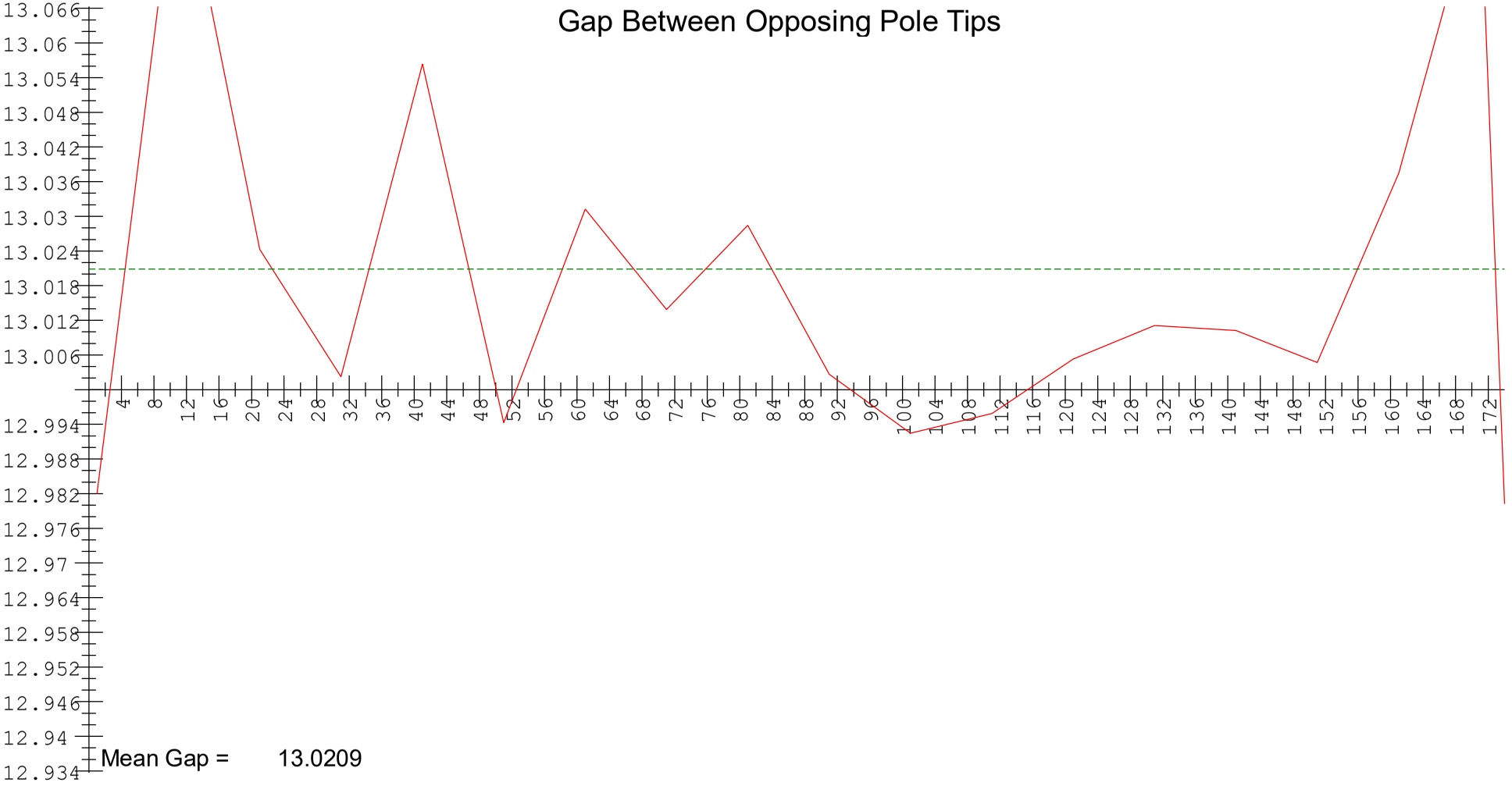
METROLOGY

# LCLS II - SXR Undulator

Nominal Gap = 13 Nominal Taper = 0.000

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

11-AUG-2021
S/N = 021
D/S= 0002
Run= 21




Step Between Measured Pole Tips = 10

Dimensions in mm

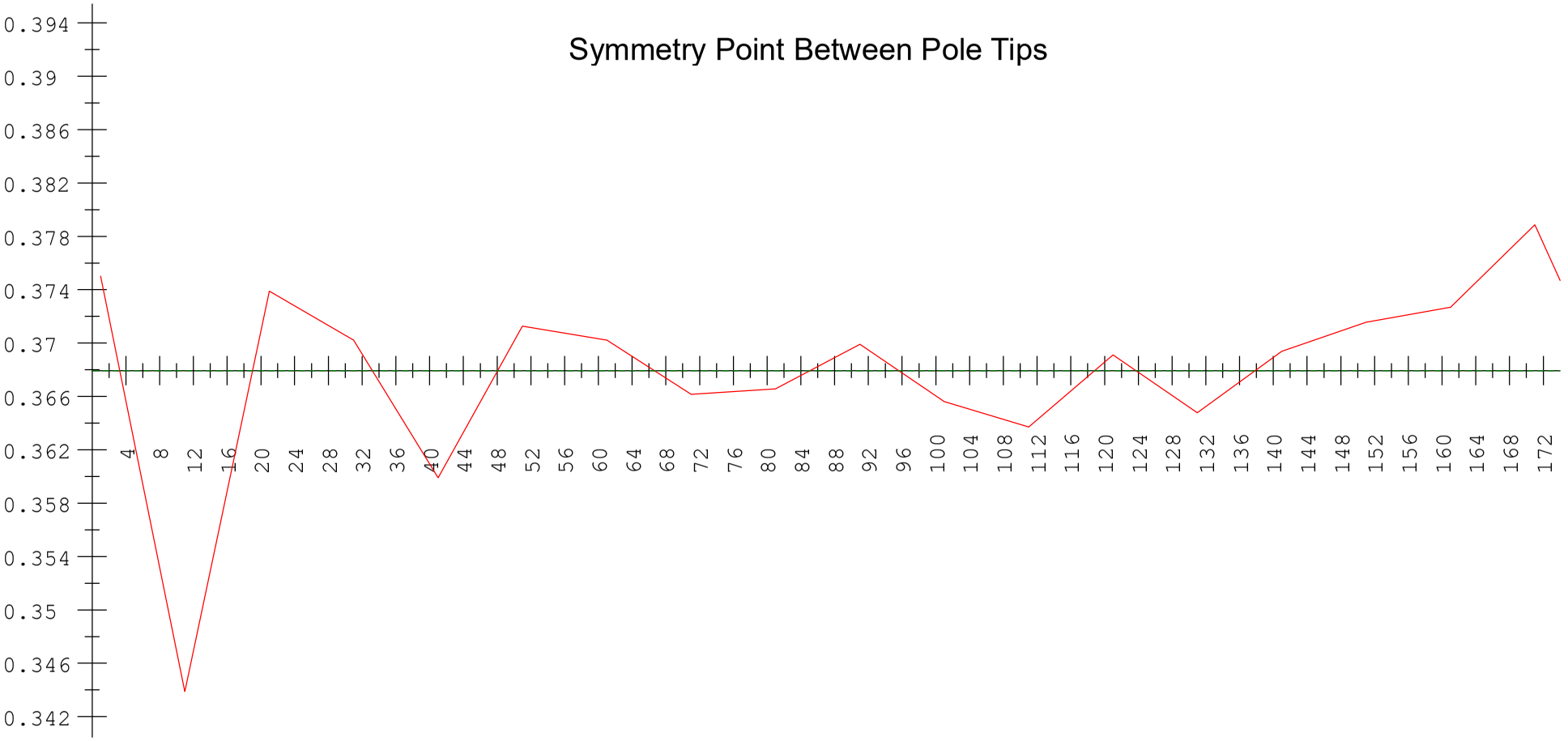
METROLOGY

# LCLS II - SXR Undulator

Nominal Gap = 13 Nominal Taper = 0.000

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

11-AUG-2021
S/N = 021
D/S= 0002
Run= 21




Mean Symmetry Value = 0.3679

Step Between Measured Pole Tips = 10

Dimensions in mm

METROLOGY

# LCLS II - SXR Undulator

Nominal Gap = 13 Nominal Taper = 0.000

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

11-AUG-2021
S/N = 021
D/S= 0002
Run= 21

# 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 | 6.8750 | 6.8761 | 6.8789 | 6.8801 |
| Bottom | -6.1476 | -6.1448 | -6.1379 | -6.1350 |
| Gap | 13.0226 | | | 13.0151 |
| Taper | | | | -0.0075 |

## Summary of Mean Values

| Top Jaw Poles | Btm. Jaw Poles | Gap Values | Sym. Pt. Values |
|---|---|---|---|
| 6.8784 | -6.1425 | 13.0209 | 0.3679 |

## Additional Calculated Values

| | |
|---|---|
| Bottom Pole #1 Z Value | 980.195 |
| Top Jaw Pitch (mrad) | 0.002 |
| Bottom Jaw Pitch(mrad) | 0.004 |
| Minimum Effective Gap | 12.977 |
| Reference Block Gap | 6.800 |

Dimensions in mm

METROLOGY

# LCLS II - SXR Undulator

Nominal Gap = 13 Nominal Taper = 0.000

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

11-AUG-2021
S/N = 021
D/S= 0002
Run= 21