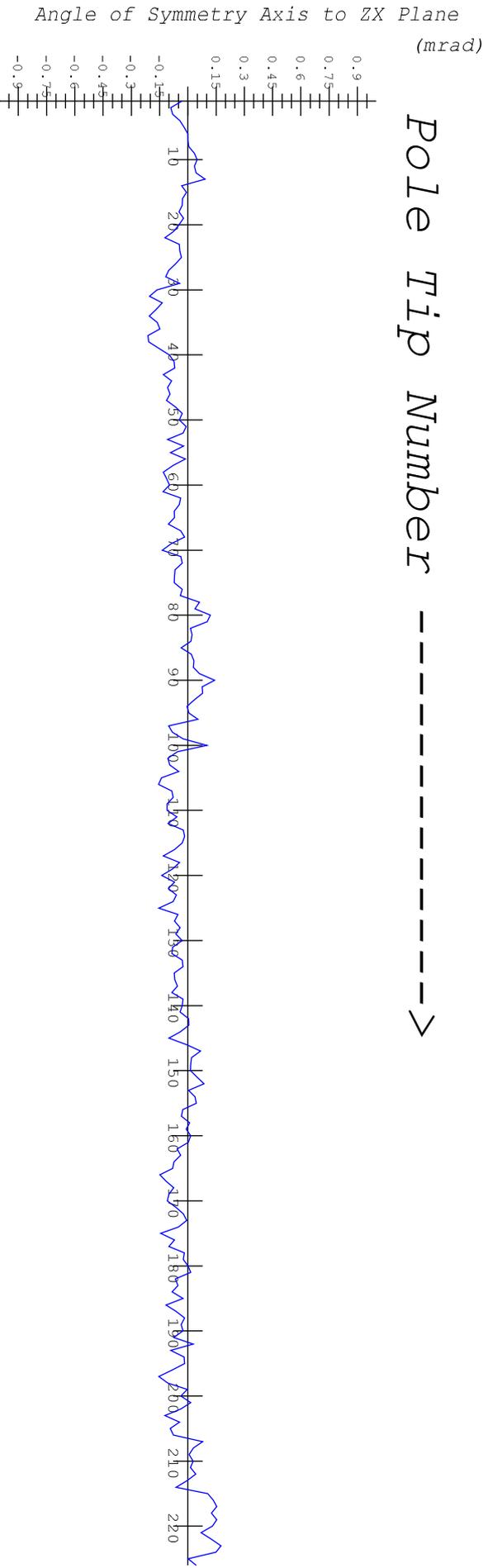


Pole Tip Number ----->



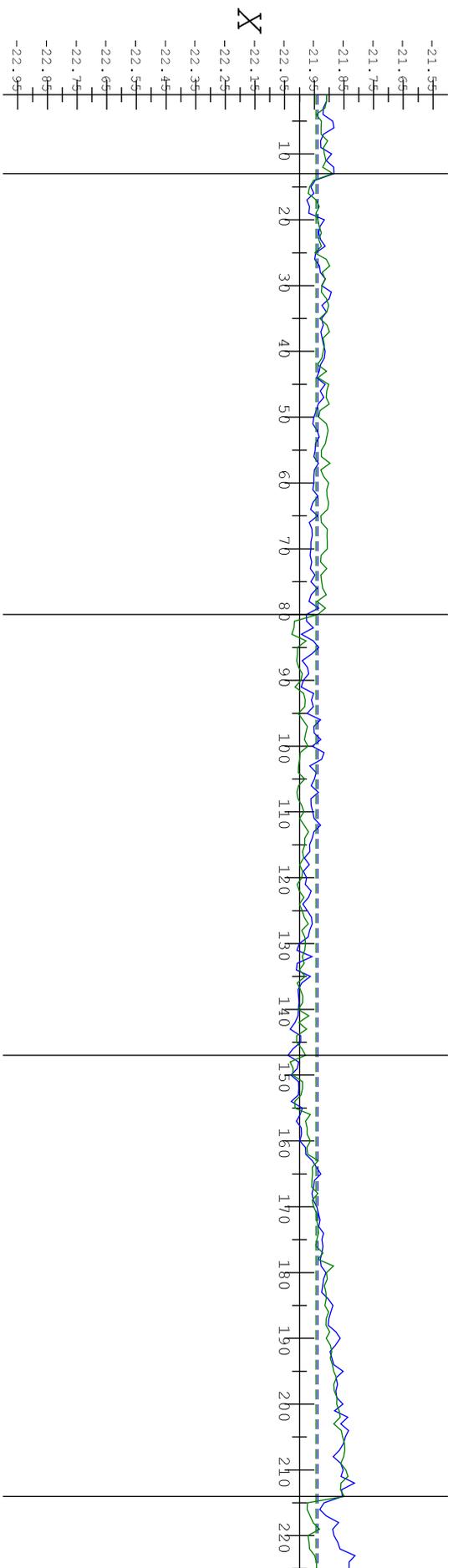
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 18-JUN-2009
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Pole Tip Number ----->



X values in mm

Green Solid = Point on front face of Upper Pole Tip 10mm above Magnetic C/L

Green Dash = Mean value of all Upper Pole Tips 10mm above Magnetic C/L Mean value Upper Pole Tips = -21.944

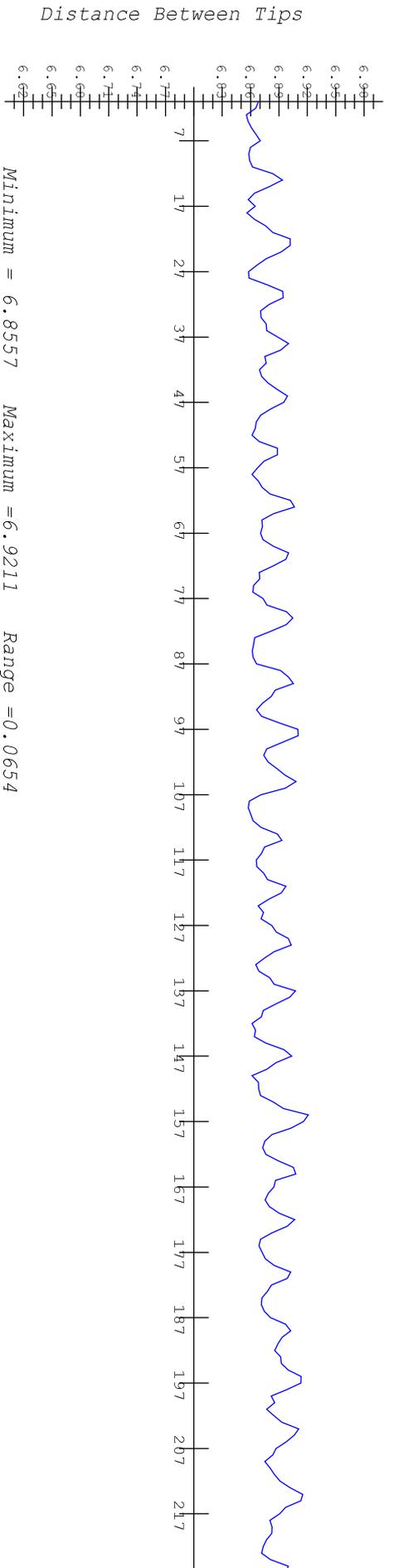
Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -21.938



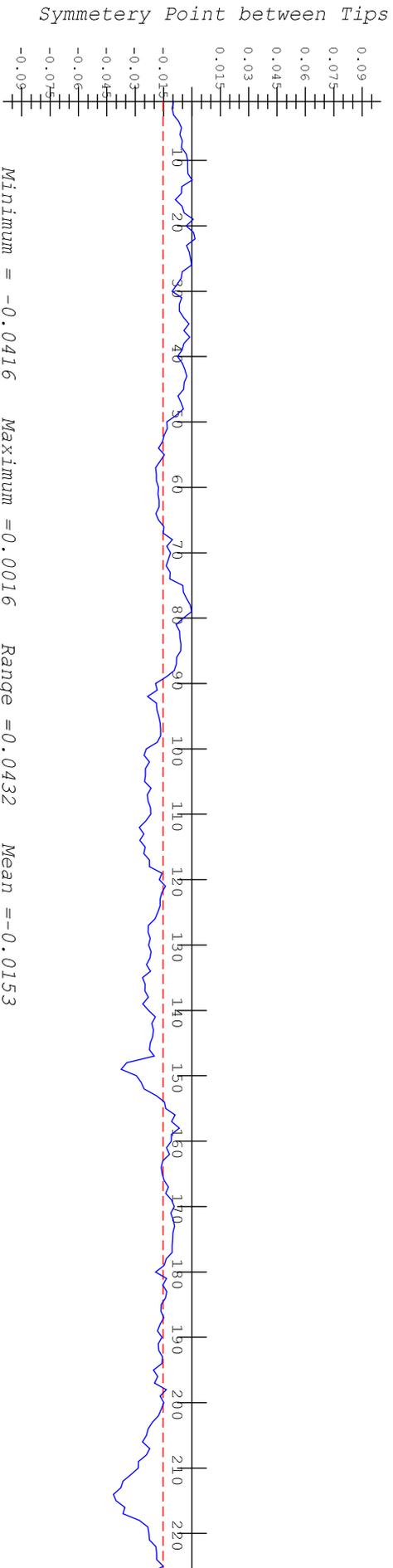
Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 18-JUN-2009
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DATASET # 0001
PROGRAM VERSION 2.9



in mm

Pole Tip Number ----->



Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C/L
 Broken Red line is Mean Value of Symmetry Points
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C/L

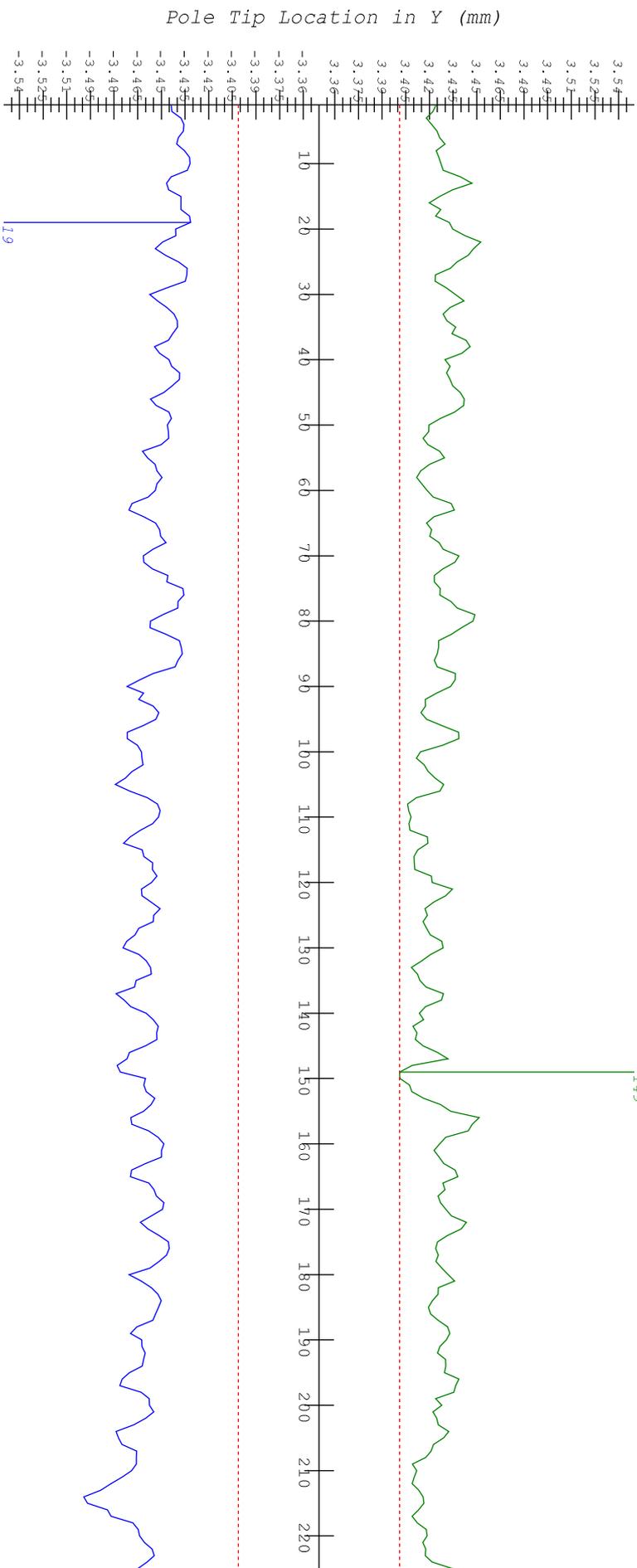


Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8022

Minimum = 3.4011 Maximum = 3.4525 Range = 0.0514



Minimum = -3.4992 Maximum = -3.4314 Range = 0.0678

Pole Tip Number ----->

Green = The position of the Upper Pole Tips at Magnetic C\L
Blue = The position of the Lower Pole Tips at Magnetic C\L
Max. Chamber Gap = The maximum width vacuum chamber that will fit centered on the Magnetic C\L (2*Min. Dev. from C\L)



Undulator Pole Tip Location
Post Magnetic Alignment

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DATASET # 0001
PROGRAM VERSION 2.9



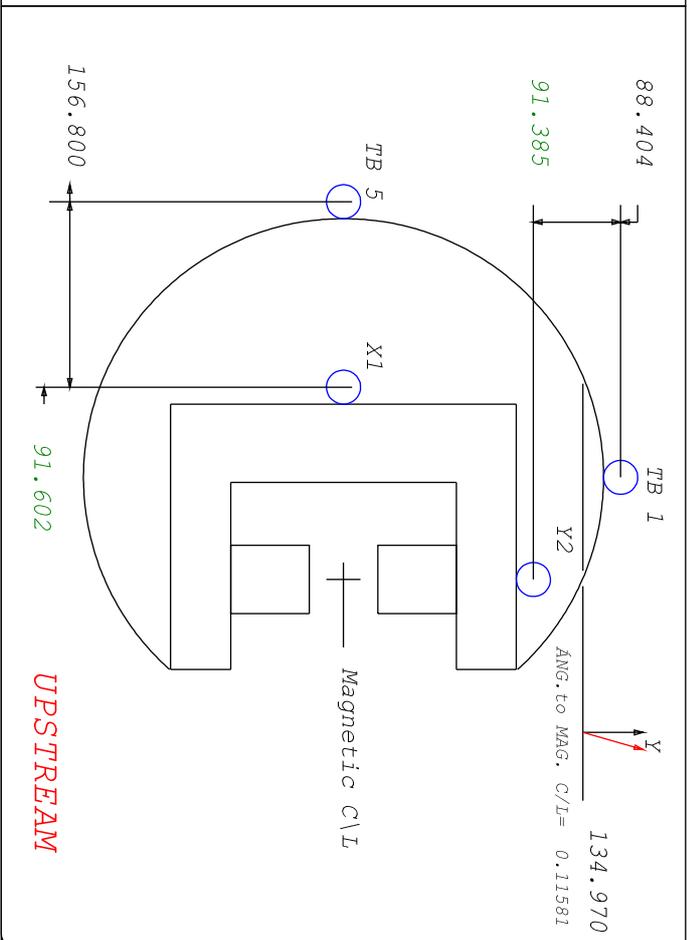
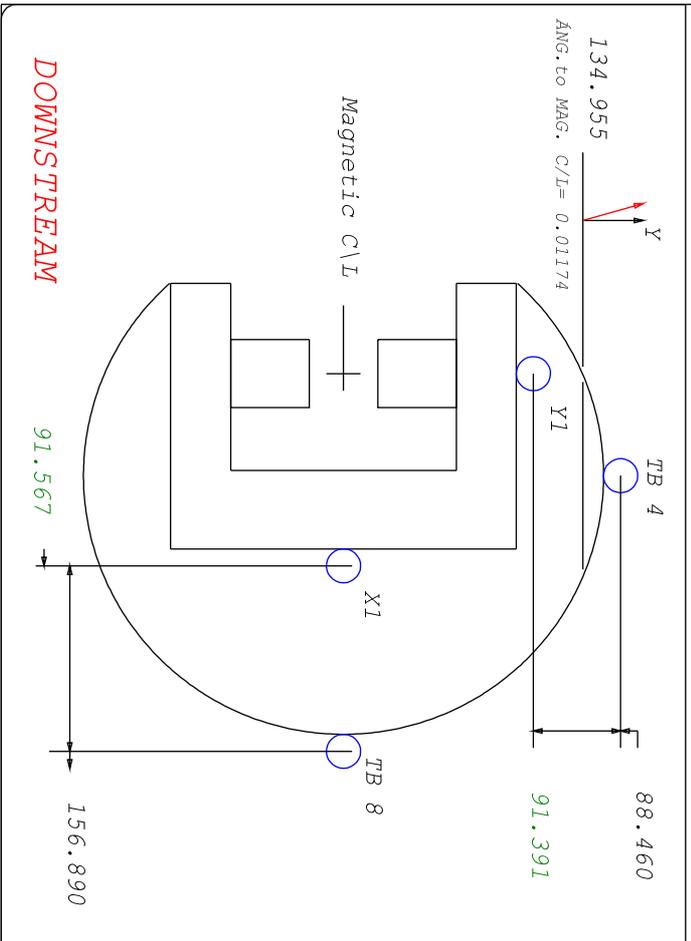
TOOLING BALL LOCATIONS

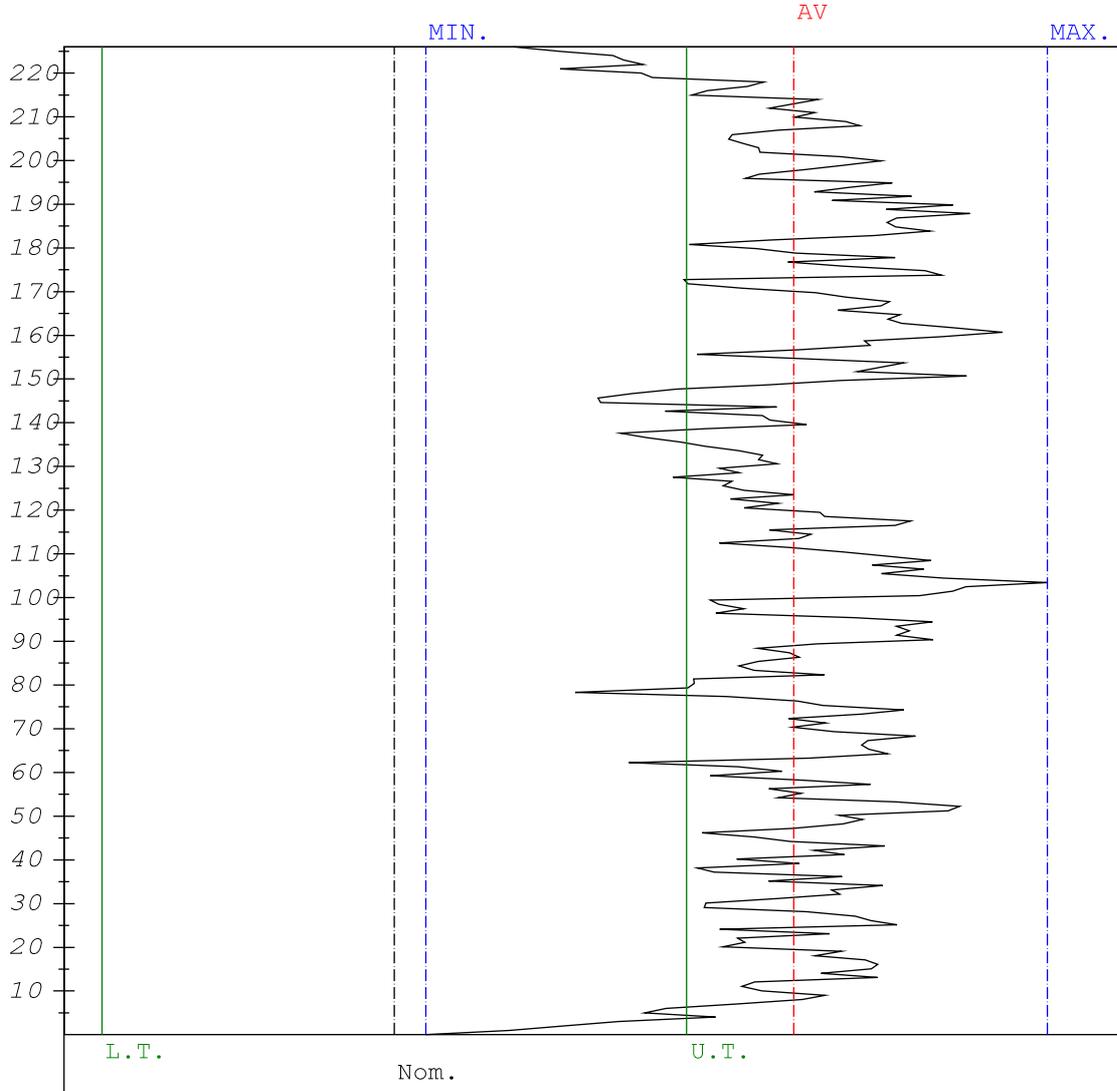
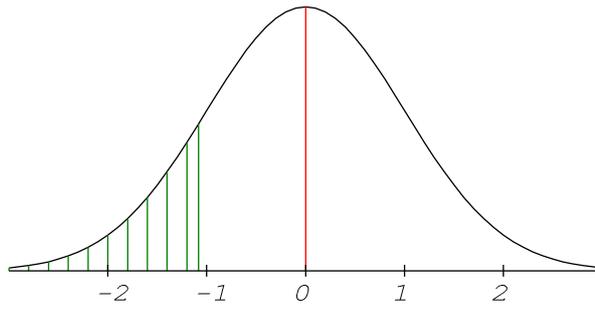
NUM.	X	Y	Z
1	0.2259	179.7889	-1558.059
2	0.1628	179.8143	-584.4390
3	0.1631	179.7642	591.6017
4	0.2108	179.8507	1562.4337
5	248.4024	0.1232	-1557.953
6	248.4229	0.0984	-584.4327
7	248.4940	0.0332	591.5414
8	248.4567	0.0397	1562.4211

	C/L Offset	Length
Top Magnetic Structure	0.022	3380.913
Bottom Magnetic Structure	-0.022	3380.794
Strongback	0.500	3399.956

Dimensions in mm

Angles in mrad





Nominal : 4.5000	Averag : 5.1828	Cent.-Dev. : 0.6828
Up. Tol. : 0.5	Maximum : 5.6167	U.Tol.Ex. > : 86.0 %
Low.Tol. : -0.5	Minimum : 4.5537	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1691	In Tolerance: 14.0 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

DATE: 18-JUN-2009
 UNDULATOR # 05
 DATASET # 0001
 PROGRAM VERSION 2.9