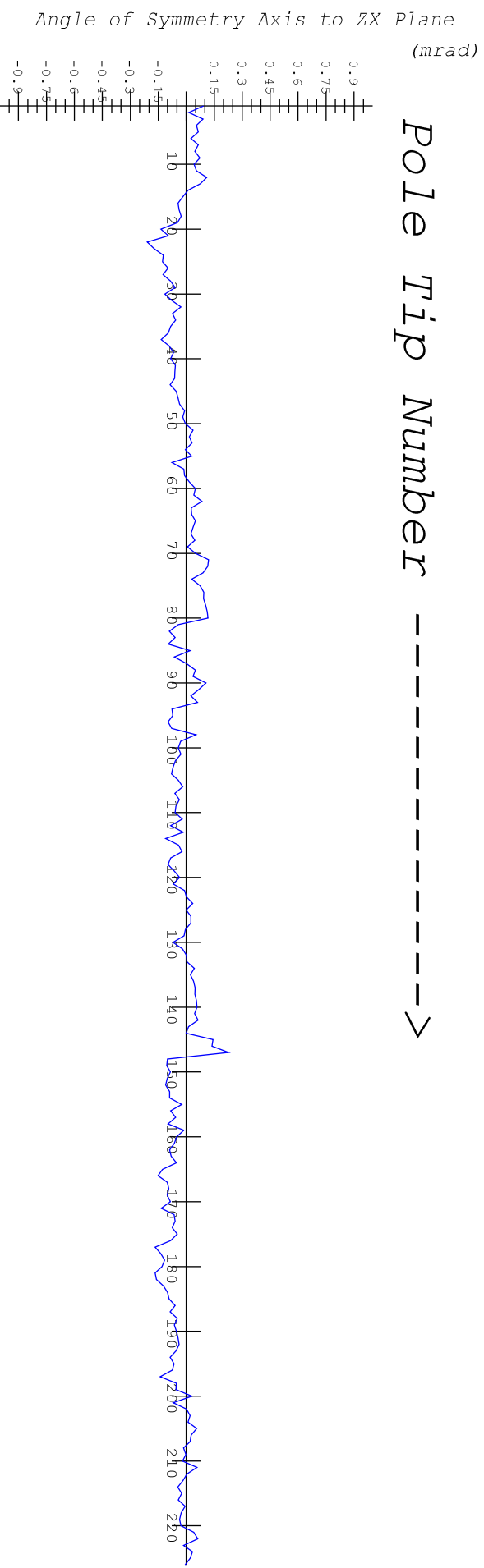
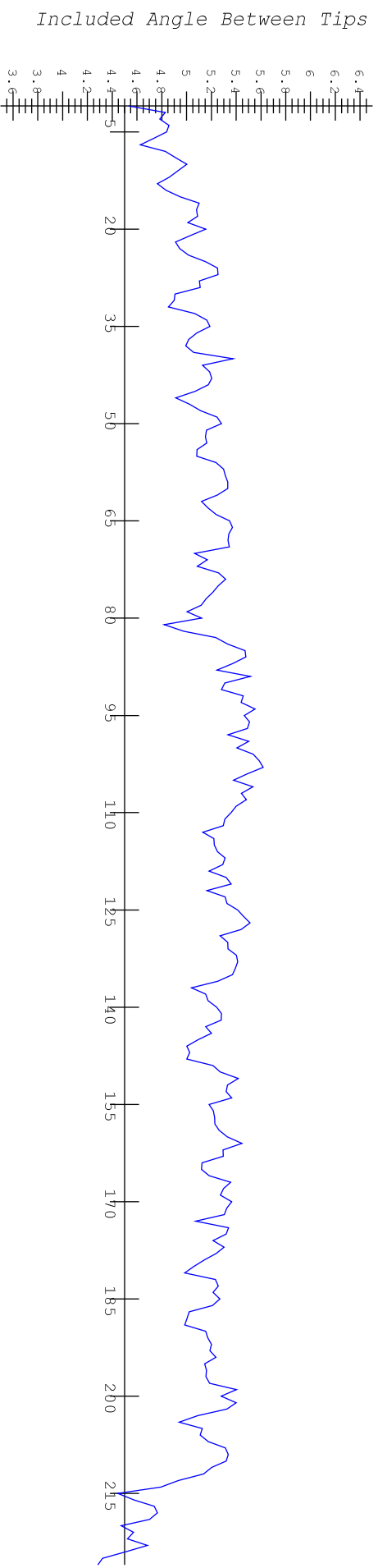
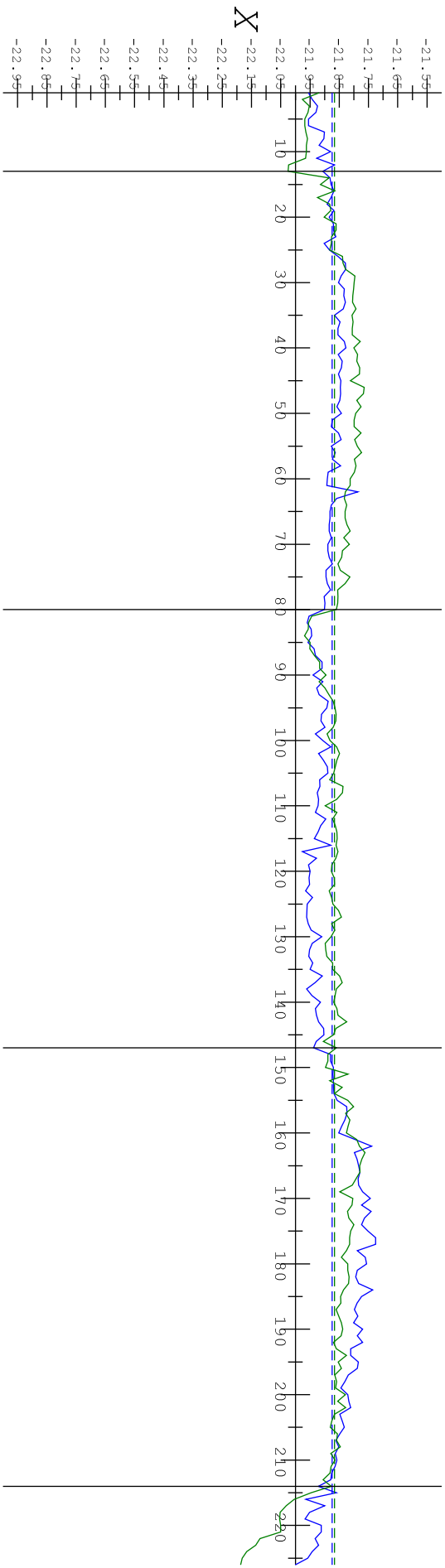




Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
Included Angle is the angle between the Upper and Lower Pole Tips

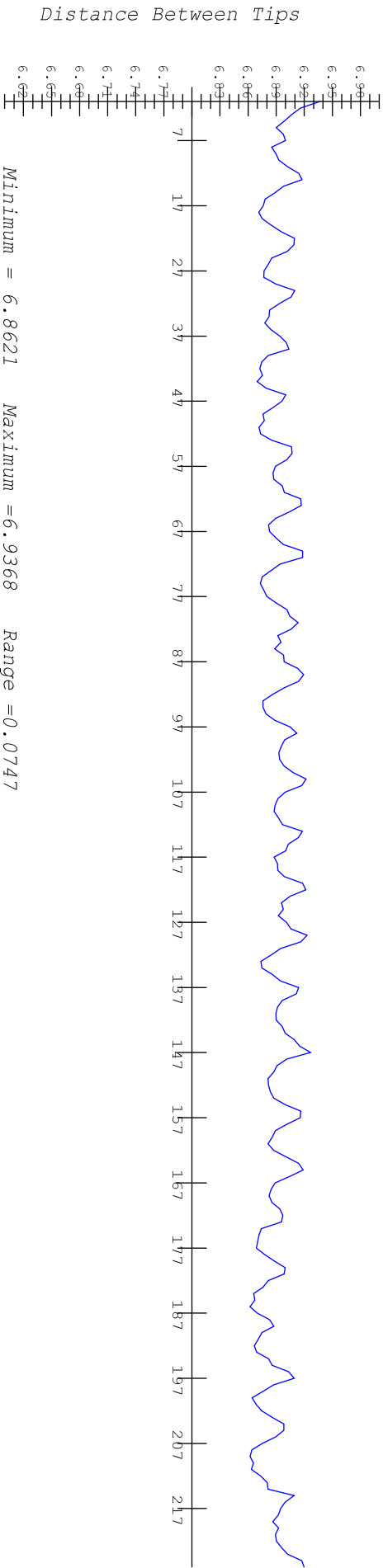
Pole Tip Number ----->



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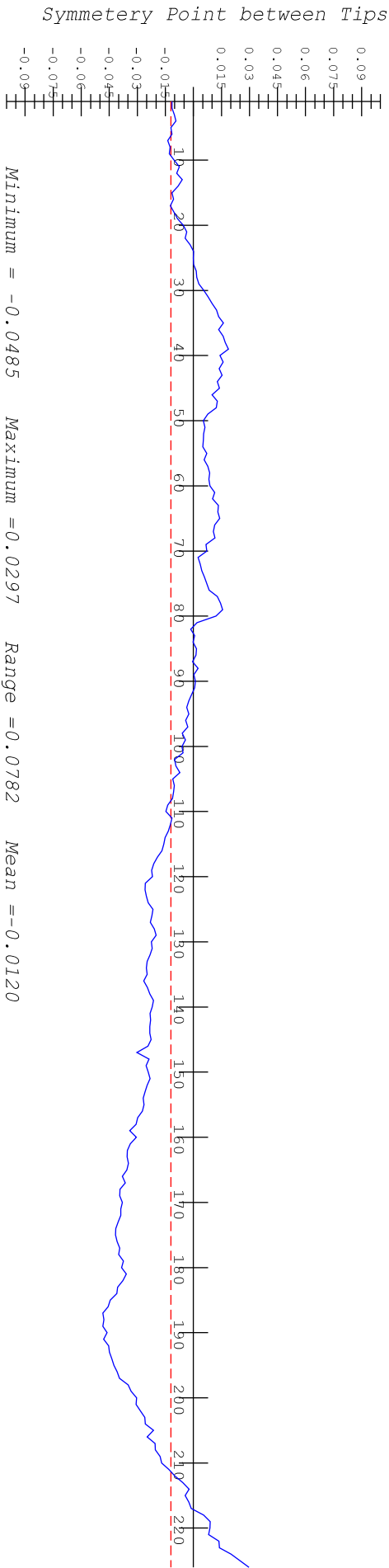
Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 28-SEP-2010
UNDULATOR # \13
DATASET # 0032
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

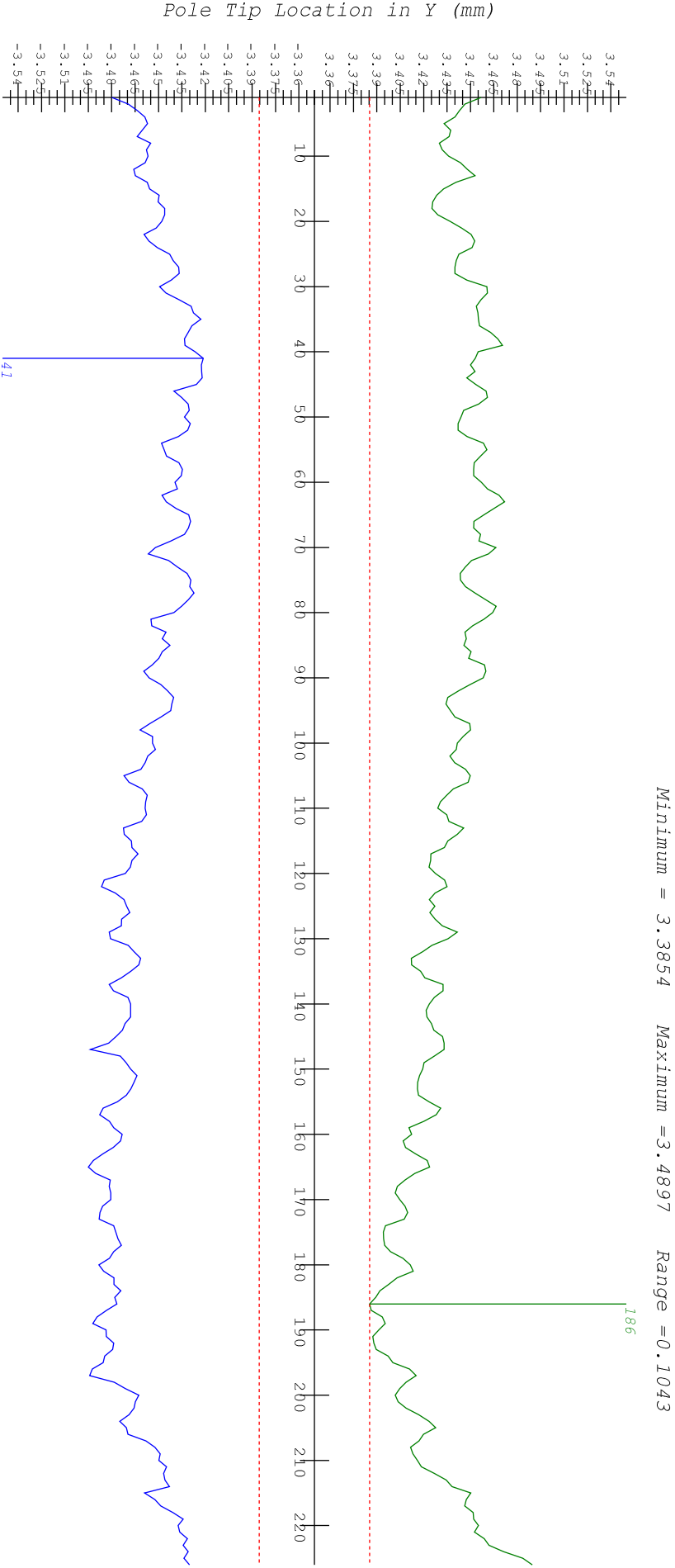


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Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 28-SEP-2010
UNDULATOR # \13
DATASET # 0032
PROGRAM VERSION 2.9

Maximum Chamber Gap = 6.7708



Minimum = -3.4951 Maximum = -3.4213 Range = 0.0738

Pole Tip Number ----->

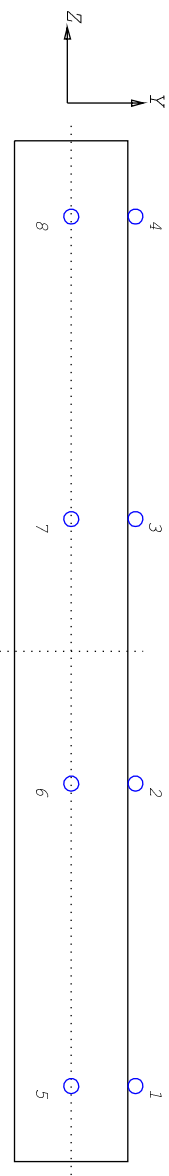
Green = The position of the Upper Pole Tips at Magnetic C\L
Blue = The position of the Lower Pole Tips at Magnetic C\L
Max. Chamber Gap = The maximum width vacuum chamber that will fit centered on the Magnetic C\L (2*Min. Dev. from C\L)



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Undulator Pole Tip Location Post Magnetic Alignment

DATE: 28-SEP-2010
UNDULATOR # \13
DATASET # 0032
PROGRAM VERSION 2.9



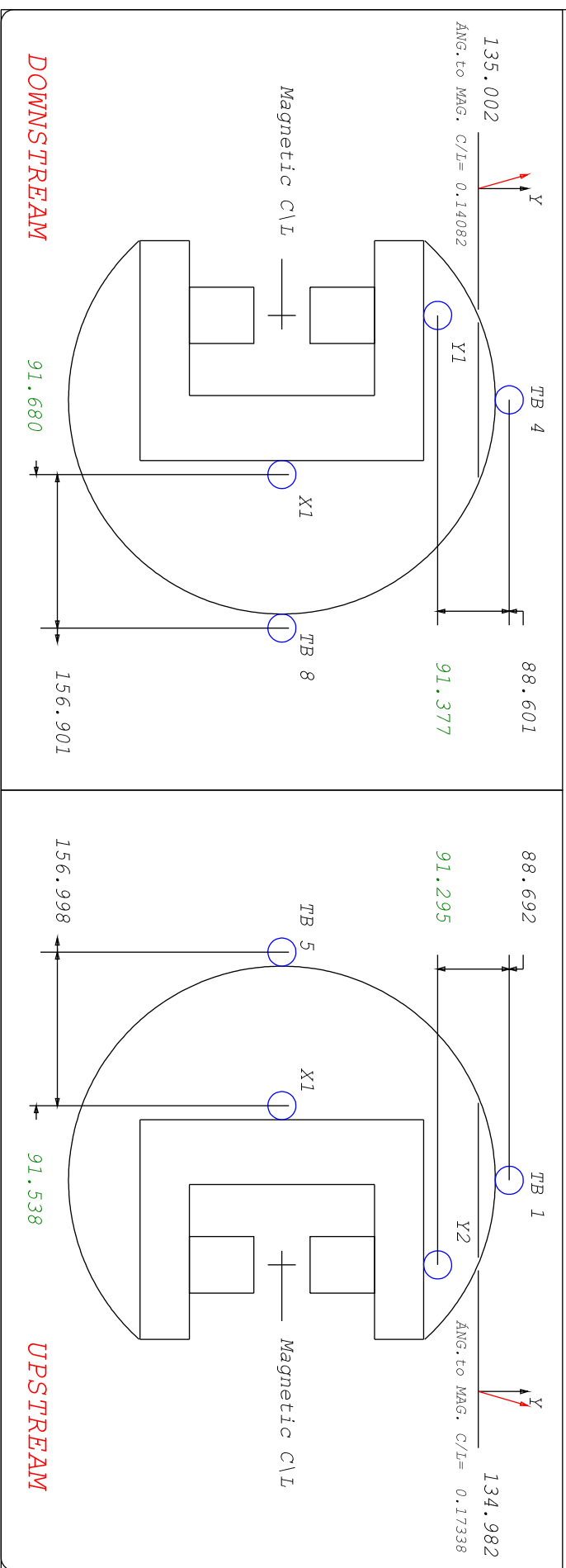
TOOLING BALL LOCATIONS

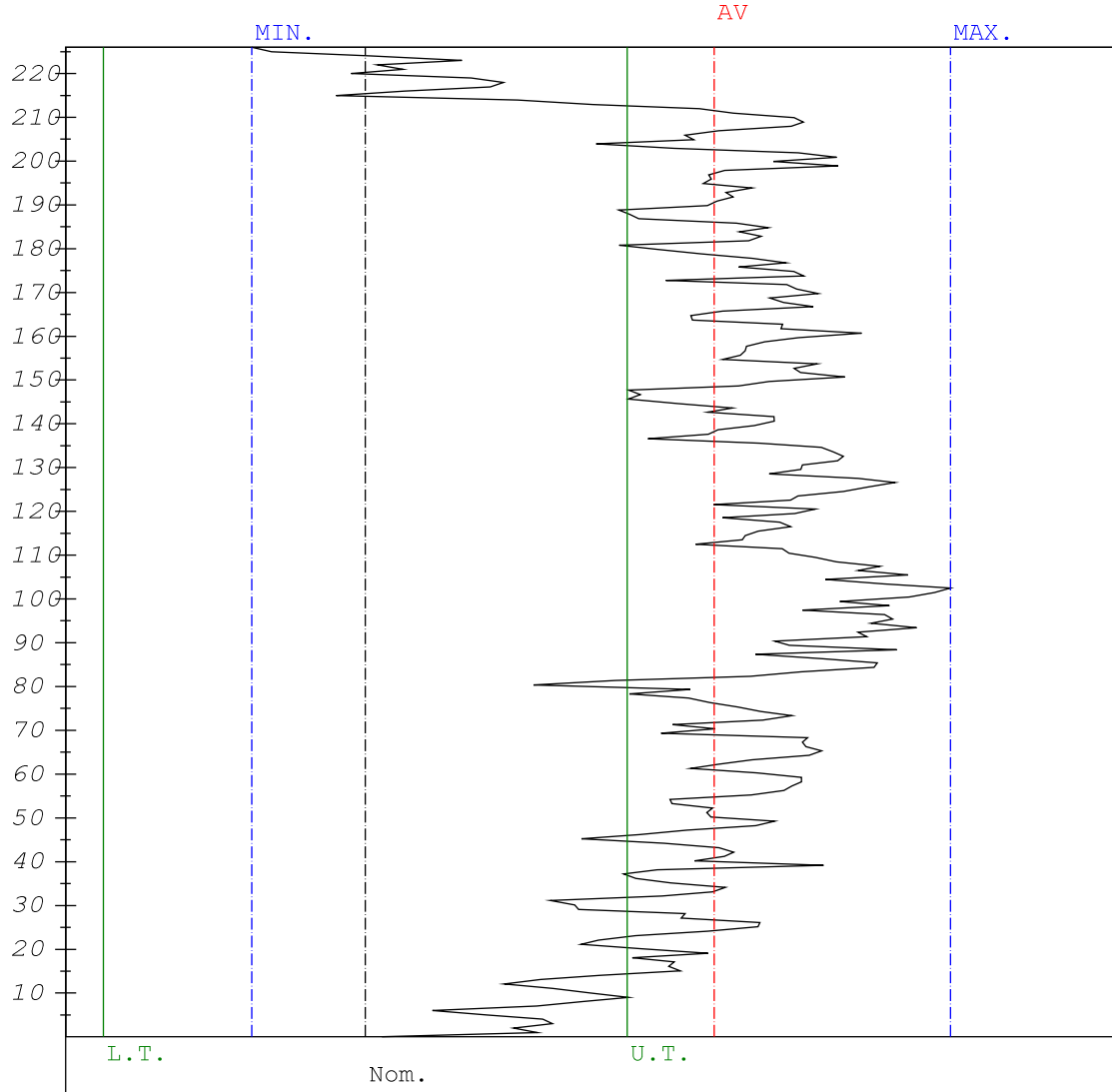
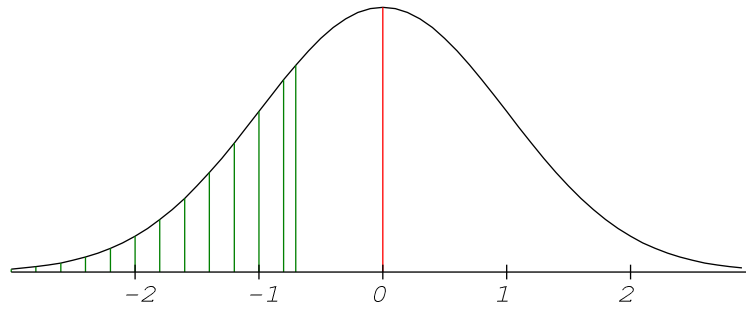
NUM.	X	Y	Z
1	0.2022	179.9867	-1558.287
2	0.3623	180.0082	-584.4542
3	0.2665	179.8843	591.3043
4	0.2252	179.9775	1562.0695
5	248.5358	0.0725	-1558.357
6	248.5094	-0.0289	-584.6025
7	248.5342	0.0291	591.3242
8	248.5808	-0.0772	1562.0847

Top Magnetic Structure	C/L Offset	Length
	-0.096	3381.054
Bottom Magnetic Structure	0.096	3381.278
Strongback	0.249	3399.775

Dimensions in mm

Angles in mrad





Nominal : 4.5000	Averag : 5.166	Cent.-Dev. : 0.666
Up. Tol. : 0.5	Maximum : 5.6173	U.Tol.Ex. > : 75.9 %
Low.Tol. : -0.5	Minimum : 4.2833	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2362	In Tolerance: 24.1 %
Outlier : 0	Distribution : NOR	Dimension : mrad