



S15-227

STORAGE RING MAGNET REPORT

Results

Date 26/07/2018

Hour 08:44:09

Temperature [°C] 23.584

Number of Measurements 9

Main Coil Current [A] (167.7972 ± 0.0004)

Trim Coil Current [A] (0 ± 0)

CH Coil Current [A] (0 ± 0)

CV Coil Current [A] (0 ± 0)

QS Coil Current [A] (0 ± 0)

Integrated Gradient [T/m] (-359.870 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (11.38 ± 0.06)

Magnet Center Offset Y [μm] - (< ±40.0) (30.3 ± 0.1)

Roll [mrad] - (< ±0.3) (1.18 ± 0.07) x E-1

Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25

n

Normalized  
Normal  
Multipoles  
x=12.0 mm  
[T.m<sup>(2-n)</sup>]

Normalized  
Skew  
Multipoles  
x=12.0 mm  
[T.m<sup>(2-n)</sup>]

1 (dipole) (-4.00 ± 0.05) x E-4 (-3.6 ± 0.2) x E-4

2 (quadrupole) (-1.897 ± 0.009) x E-3 (-5.05 ± 0.02) x E-3

3 (sextupole) (1.00000 ± 0.00001) (3.6 ± 0.2) x E-4

4 (2.7 ± 0.2) x E-4 (9 ± 2) x E-5

5 (2.5 ± 0.2) x E-4 (1.1 ± 0.2) x E-4

6 (8.5 ± 18.3) x E-6 (3 ± 2) x E-5

7 (9 ± 1) x E-5 (-4 ± 2) x E-5

8 (2 ± 1) x E-5 (6 ± 2) x E-5

9 (-1.97 ± 0.02) x E-3 (5.0 ± 0.3) x E-4

10 (2 ± 2) x E-5 (6.1 ± 20.5) x E-6

11 (-1.9 ± 23.9) x E-6 (-1 ± 3) x E-5

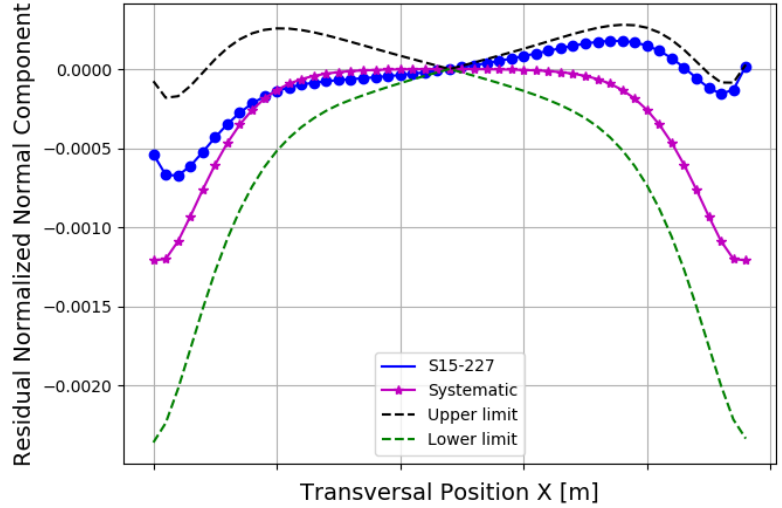
12 (-1 ± 2) x E-5 (-4.2 ± 27.4) x E-6

13 (-3 ± 2) x E-5 (2.8 ± 10.3) x E-6

14 (-2 ± 2) x E-5 (-4 ± 3) x E-5

15 (1.39 ± 0.02) x E-3 (2 ± 3) x E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

