



S15-186

STORAGE RING MAGNET REPORT

Results

Date 29/08/2018

Hour 10:53:10

Temperature [°C] 23.497

Number of Measurements 9

Main Coil Current [A] (167.7979 ± 0.0010)

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] (-360.175 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (9.80 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (28.98 ± 0.03)

Roll [mrad] - (< ±0.3) (-2.2 ± 0.2) × E-2

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⁽²⁻ⁿ⁾]

Normalized
Skew
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

1 (dipole) (-3.28 ± 0.08) × E-4 (-7.03 ± 0.09) × E-4

2 (quadrupole) (-1.633 ± 0.004) × E-3 (-4.830 ± 0.005) × E-3

3 (sextupole) (1.000000 ± 0.000009) (-6.5 ± 0.7) × E-5

4 (6.5 ± 0.4) × E-5 (1.93 ± 0.07) × E-4

5 (1.33 ± 0.07) × E-4 (2.17 ± 0.06) × E-4

6 (-9.6 ± 0.6) × E-5 (-1.6 ± 0.3) × E-5

7 (6.8 ± 0.3) × E-5 (-9 ± 7) × E-6

8 (9 ± 4) × E-6 (3.2 ± 0.8) × E-5

9 (-1.863 ± 0.007) × E-3 (3.40 ± 0.06) × E-4

10 (-8 ± 7) × E-6 (-1.8 ± 0.4) × E-5

11 (2.3 ± 1.0) × E-5 (-9.3 ± 10.5) × E-6

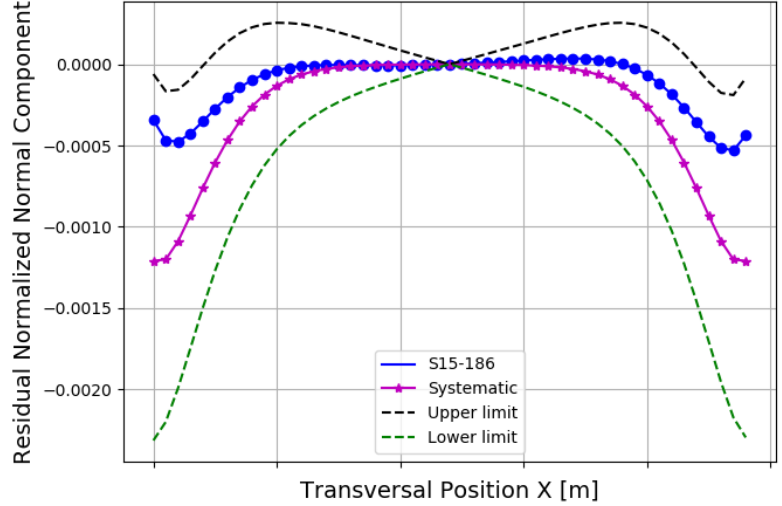
12 (7 ± 6) × E-6 (-4.41 ± 873.07) × E-8

13 (-1.7 ± 0.5) × E-5 (-1.5 ± 0.5) × E-5

14 (-2 ± 1) × E-5 (-4.2 ± 0.8) × E-5

15 (1.265 ± 0.006) × E-3 (-1.28 ± 0.08) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

