



S15-184

STORAGE RING MAGNET REPORT

Results

Date 04/09/2018

Hour 15:22:27

Temperature [°C] 23.531

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.001)

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] (-360.316 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (14.48 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (35.3 ± 0.2)

Roll [mrad] - (< ±0.3) (-3 ± 8) × E-3

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) (-5.40 ± 0.08) × E-4 (-1.2 ± 0.3) × E-4

2 (quadrupole) (-2.414 ± 0.005) × E-3 (-5.88 ± 0.03) × E-3

3 (sextupole) (1.000000 ± 0.000010) (-1 ± 3) × E-5

4 (1.17 ± 0.10) × E-4 (2.5 ± 0.2) × E-4

5 (1.8 ± 0.2) × E-4 (1.9 ± 0.3) × E-4

6 (-1.8 ± 0.1) × E-4 (9.6 ± 26.7) × E-6

7 (9 ± 1) × E-5 (-4 ± 3) × E-5

8 (9.1 ± 10.8) × E-6 (4 ± 2) × E-5

9 (-1.78 ± 0.02) × E-3 (4.7 ± 0.3) × E-4

10 (-2 ± 2) × E-5 (-4 ± 2) × E-5

11 (3.5 ± 20.1) × E-6 (-9.5 ± 20.2) × E-6

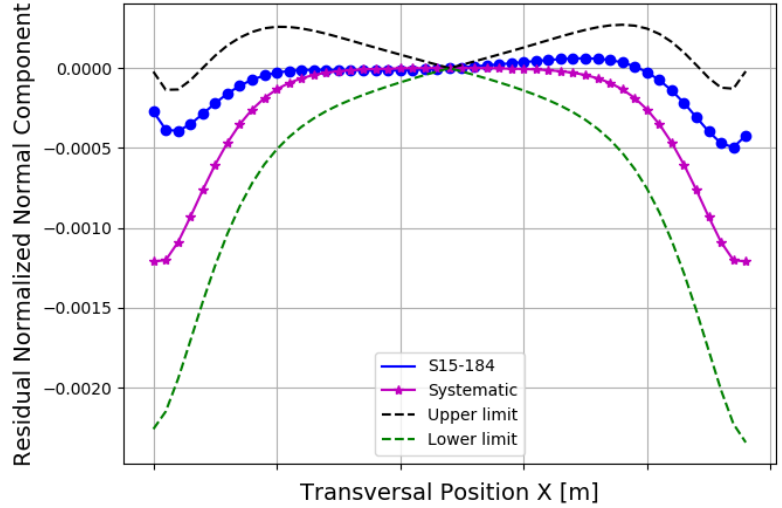
12 (1 ± 1) × E-5 (-1 ± 2) × E-5

13 (-3 ± 1) × E-5 (1.9 ± 16.3) × E-6

14 (-3.5 ± 15.5) × E-6 (-4 ± 2) × E-5

15 (1.18 ± 0.01) × E-3 (-1.6 ± 0.1) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

