



S15-187

STORAGE RING MAGNET REPORT

Results

Date 30/08/2018

Hour 15:54:56

Temperature [°C] 23.167

Number of Measurements 9

Main Coil Current [A] (167.7976 ± 0.0008)

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] (-360.143 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (15.73 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (28.55 ± 0.07)

Roll [mrad] - (< ±0.3) (9.7 ± 0.4) × 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) (5.09 ± 0.04) × E-4 (-9.6 ± 0.1) × E-4

2 (quadrupole) (-2.621 ± 0.004) × E-3 (-4.76 ± 0.01) × E-3

3 (sextupole) (1.000000 ± 0.000008) (2.9 ± 0.1) × E-4

4 (5.9 ± 0.4) × E-5 (-9 ± 1) × E-5

5 (3.66 ± 0.04) × E-4 (3.78 ± 0.08) × E-4

6 (-1.94 ± 0.04) × E-4 (7 ± 10) × E-6

7 (1.05 ± 0.05) × E-4 (-6.6 ± 1.0) × E-5

8 (2.8 ± 0.5) × E-5 (5.5 ± 0.9) × E-5

9 (-1.883 ± 0.004) × E-3 (2.7 ± 0.1) × E-4

10 (-1 ± 1) × E-5 (9 ± 9) × E-6

11 (-1.2 ± 0.8) × E-5 (-3 ± 1) × E-5

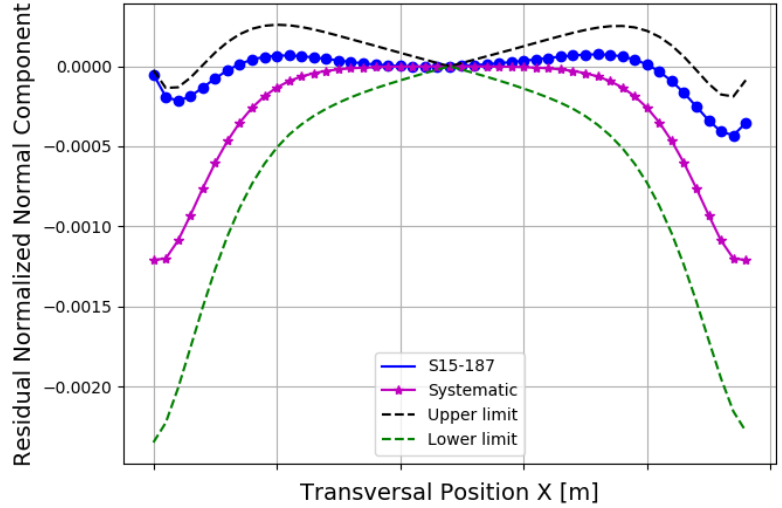
12 (9.5 ± 11.4) × E-6 (-6 ± 7) × E-6

13 (-1.8 ± 0.8) × E-5 (6 ± 7) × E-6

14 (-4.1 ± 0.5) × E-5 (-4.1 ± 0.8) × E-5

15 (1.240 ± 0.009) × E-3 (-1.0 ± 0.1) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

