



S15-087

STORAGE RING MAGNET REPORT

Results

Date 29/08/2018

Hour 14:49:35

Temperature [°C] 23.303

Number of Measurements 9

Main Coil Current [A] (167.7987 ± 0.0009)

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] (-359.883 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (31.69 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (23.52 ± 0.05)

Roll [mrad] - (< ±0.3) (-3.9 ± 0.3) × 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) (-1.95 ± 0.03) × E-4 (-3.04 ± 0.07) × E-4

2 (quadrupole) (-5.282 ± 0.003) × E-3 (-3.920 ± 0.008) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-1.16 ± 0.09) × E-4

4 (-1.31 ± 0.03) × E-4 (-1.52 ± 0.07) × E-4

5 (3.26 ± 0.05) × E-4 (1.27 ± 0.04) × E-4

6 (-1.9 ± 0.3) × E-5 (-2.3 ± 0.5) × E-5

7 (1.35 ± 0.05) × E-4 (-2.6 ± 0.7) × E-5

8 (1.8 ± 0.6) × E-5 (9.0 ± 0.8) × E-5

9 (-1.704 ± 0.005) × E-3 (3.89 ± 0.06) × E-4

10 (2.3 ± 0.6) × E-5 (-3 ± 9) × E-6

11 (4 ± 6) × E-6 (-4 ± 6) × E-6

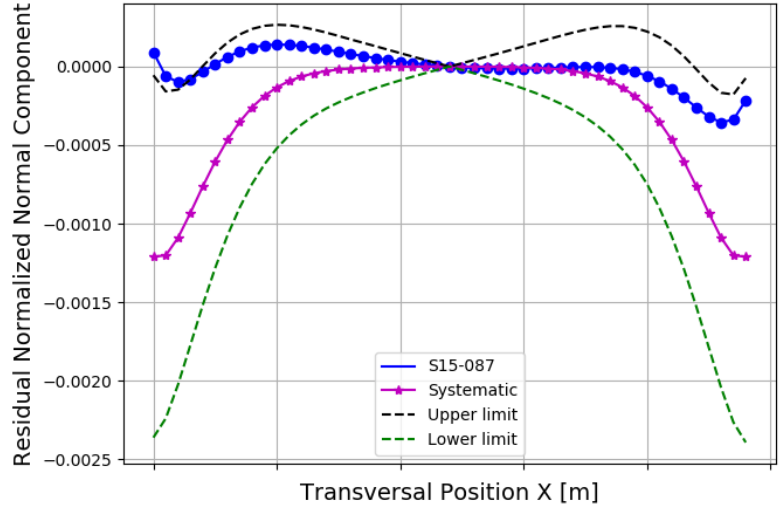
12 (-3 ± 6) × E-6 (-2 ± 3) × E-6

13 (-3.0 ± 0.7) × E-5 (-1.1 ± 0.7) × E-5

14 (-4.1 ± 0.6) × E-5 (-5.4 ± 0.5) × E-5

15 (1.206 ± 0.007) × E-3 (-1.44 ± 0.08) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

