



S15-024

STORAGE RING MAGNET REPORT

Results

Date 03/09/2018

Hour 15:43:57

Temperature [°C] 23.086

Number of Measurements 9

Main Coil Current [A] (167.797 ± 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] (-359.918 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (27.21 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (29.9 ± 0.3)

Roll [mrad] - (< ±0.3) (8 ± 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) (-1.021 ± 0.005) × E-3 (1.5 ± 0.5) × E-4

2 (quadrupole) (-4.536 ± 0.003) × E-3 (-4.99 ± 0.04) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.5 ± 0.5) × E-4

4 (3.33 ± 0.08) × E-4 (2.1 ± 0.4) × E-4

5 (5.30 ± 0.07) × E-4 (5 ± 4) × E-5

6 (4 ± 1) × E-5 (2 ± 4) × E-5

7 (1.9 ± 0.1) × E-4 (2 ± 3) × E-5

8 (4 ± 1) × E-5 (4 ± 4) × E-5

9 (-1.81 ± 0.01) × E-3 (3.6 ± 0.3) × E-4

10 (3.6 ± 0.9) × E-5 (-2 ± 3) × E-5

11 (1.8 ± 13.7) × E-6 (-4.4 ± 27.5) × E-6

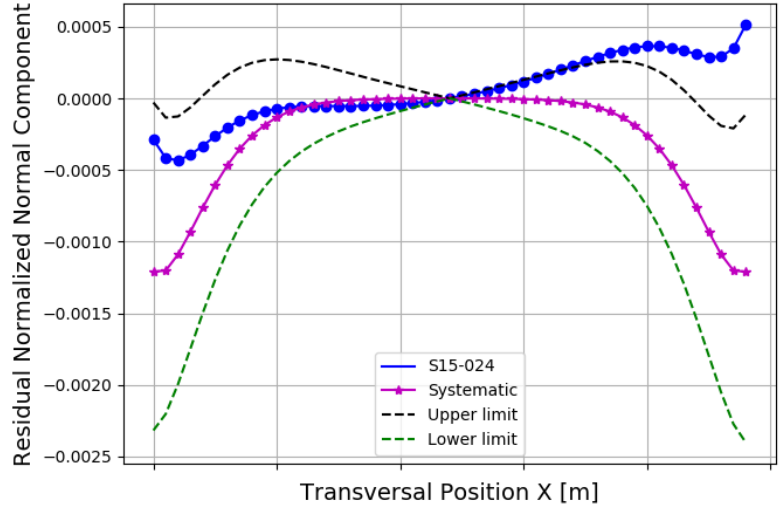
12 (-9.7 ± 13.1) × E-6 (-2 ± 2) × E-5

13 (-3 ± 1) × E-5 (-2 ± 3) × E-5

14 (-4 ± 1) × E-5 (-5 ± 2) × E-5

15 (1.228 ± 0.007) × E-3 (-1.4 ± 0.2) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

