



S15-266

STORAGE RING MAGNET REPORT

Results

Date 07/07/2018

Hour 11:04:58

Temperature [°C] 23.67

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.006)

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] (-359.600 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (12.99 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (20.97 ± 0.08)

Roll [mrad] - (< ±0.3) (8.1 ± 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) (-8.53 ± 0.05) × E-4 (-1.4 ± 0.2) × E-4

2 (quadrupole) (-2.164 ± 0.006) × E-3 (-3.50 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.4 ± 0.1) × E-4

4 (2.03 ± 0.08) × E-4 (-3 ± 1) × E-5

5 (-8.8 ± 0.8) × E-5 (9 ± 1) × E-5

6 (1.6 ± 0.1) × E-4 (-1 ± 2) × E-5

7 (4 ± 1) × E-5 (-5 ± 1) × E-5

8 (2.6 ± 0.9) × E-5 (4.9 ± 17.4) × E-6

9 (-1.92 ± 0.01) × E-3 (2.2 ± 0.1) × E-4

10 (-2 ± 1) × E-5 (5.3 ± 12.2) × E-6

11 (-5.3 ± 10.8) × E-6 (-2 ± 2) × E-5

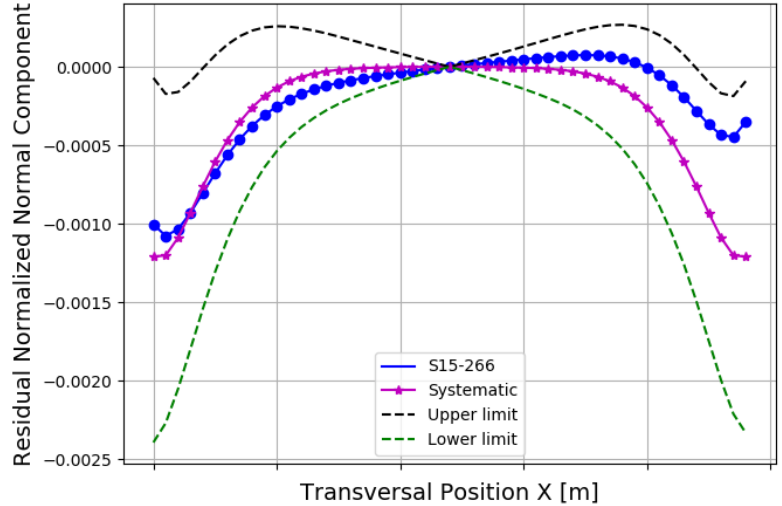
12 (-9.4 ± 13.2) × E-6 (1.3 ± 13.0) × E-6

13 (-1.8 ± 1.0) × E-5 (8 ± 7) × E-6

14 (-4.0 ± 1.0) × E-5 (-5 ± 1) × E-5

15 (1.319 ± 0.010) × E-3 (-1 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

