



S15-165

STORAGE RING MAGNET REPORT

Results

Date 08/08/2018

Hour 11:12:49

Temperature [°C] 23.626

Number of Measurements 9

Main Coil Current [A] (167.7981 ± 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] (-359.801 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (9.49 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (24.09 ± 0.03)

Roll [mrad] - (< ±0.3) (7.7 ± 0.1) × 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) (1.1 ± 0.1) × E-4 (9.2 ± 0.2) × E-5

2 (quadrupole) (-1.581 ± 0.005) × E-3 (-4.015 ± 0.005) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.30 ± 0.04) × E-4

4 (1.90 ± 0.02) × E-4 (2.16 ± 0.04) × E-4

5 (2.99 ± 0.03) × E-4 (4.8 ± 0.5) × E-5

6 (-1.24 ± 0.04) × E-4 (-1.3 ± 0.6) × E-5

7 (8.4 ± 0.3) × E-5 (-3.5 ± 0.6) × E-5

8 (1.5 ± 0.4) × E-5 (1.2 ± 0.5) × E-5

9 (-2.009 ± 0.004) × E-3 (3.6 ± 0.5) × E-5

10 (-4 ± 4) × E-6 (-6 ± 4) × E-6

11 (3 ± 4) × E-6 (-9 ± 4) × E-6

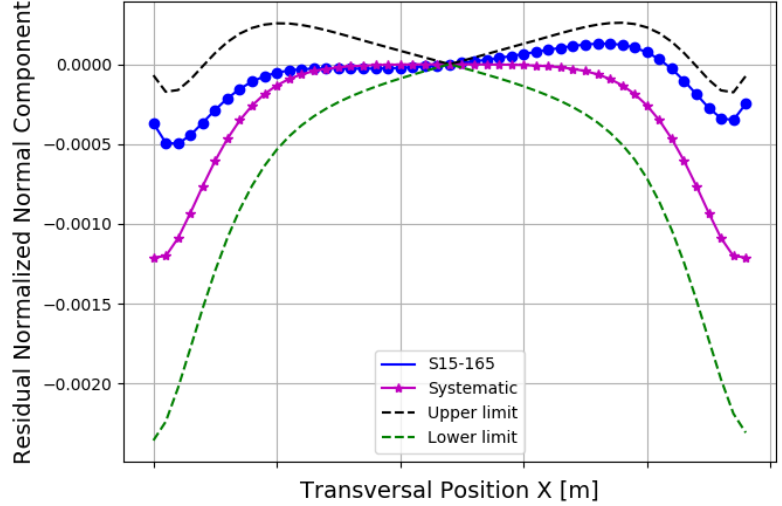
12 (-6 ± 4) × E-6 (-6.29 ± 820.59) × E-8

13 (-1.4 ± 0.5) × E-5 (1.3 ± 0.6) × E-5

14 (-1.1 ± 0.5) × E-5 (-3.2 ± 0.6) × E-5

15 (1.328 ± 0.007) × E-3 (1.0 ± 0.3) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

