



S15-154

STORAGE RING MAGNET REPORT

Results

Date 16/08/2018

Hour 12:26:49

Temperature [°C] 23.511

Number of Measurements 9

Main Coil Current [A] (167.797 ± 0.005)

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] (-359.705 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (3.84 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (18.17 ± 0.05)

Roll [mrad] - (< ±0.3) (7.5 ± 0.5) × 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) (-2.251 ± 0.006) × E-3 (1.075 ± 0.007) × E-3

2 (quadrupole) (-6.40 ± 0.06) × E-4 (-3.028 ± 0.009) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.3 ± 0.1) × E-4

4 (2.2 ± 0.2) × E-4 (1.5 ± 0.1) × E-4

5 (-5 ± 2) × E-5 (-2.2 ± 0.2) × E-4

6 (-3 ± 1) × E-5 (-4.2 ± 16.8) × E-6

7 (9.6 ± 0.7) × E-5 (1.1 ± 16.4) × E-6

8 (-5 ± 1) × E-5 (1 ± 1) × E-5

9 (-2.01 ± 0.01) × E-3 (2.1 ± 0.2) × E-4

10 (1 ± 2) × E-5 (-4 ± 2) × E-5

11 (3 ± 2) × E-5 (3 ± 2) × E-5

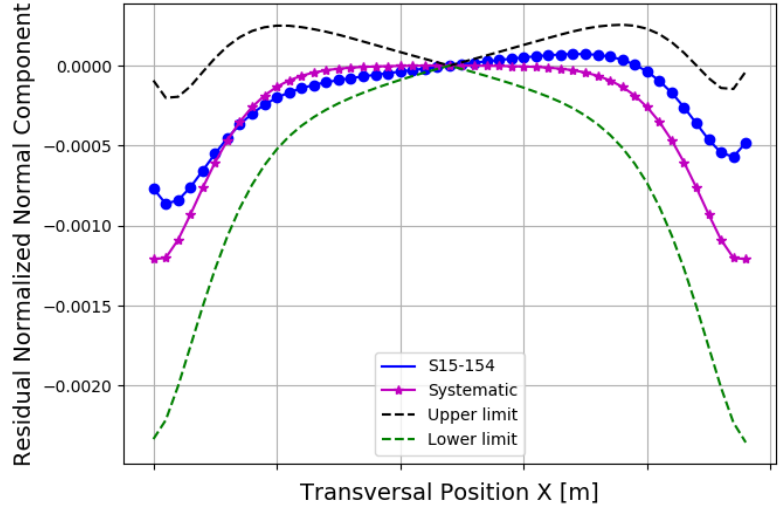
12 (-2 ± 1) × E-5 (-2 ± 2) × E-5

13 (-3 ± 1) × E-5 (2 ± 2) × E-5

14 (8.3 ± 11.6) × E-6 (-4 ± 2) × E-5

15 (1.35 ± 0.02) × E-3 (8 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

