



S15-133

STORAGE RING MAGNET REPORT

Results

Date 05/07/2018

Hour 16:48:07

Temperature [°C] 23.484

Number of Measurements 9

Main Coil Current [A] (167.7976 ± 0.0007)

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] (-359.812 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (9.15 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (21.72 ± 0.02)

Roll [mrad] - (< ±0.3) (7.4 ± 0.2) × 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) (-1.82 ± 0.02) × E-4 (-4.43 ± 0.05) × E-4

2 (quadrupole) (-1.525 ± 0.003) × E-3 (-3.620 ± 0.004) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.22 ± 0.05) × E-4

4 (5.20 ± 0.04) × E-4 (-7.3 ± 0.4) × E-5

5 (2.03 ± 0.08) × E-4 (-3.6 ± 0.5) × E-5

6 (5 ± 5) × E-6 (-6.4 ± 52.8) × E-7

7 (6.8 ± 0.8) × E-5 (5 ± 7) × E-6

8 (2.2 ± 0.5) × E-5 (2.9 ± 0.7) × E-5

9 (-2.023 ± 0.007) × E-3 (1.3 ± 0.1) × E-4

10 (-2.3 ± 0.9) × E-5 (-3 ± 8) × E-6

11 (-1.2 ± 0.8) × E-5 (-2 ± 1) × E-5

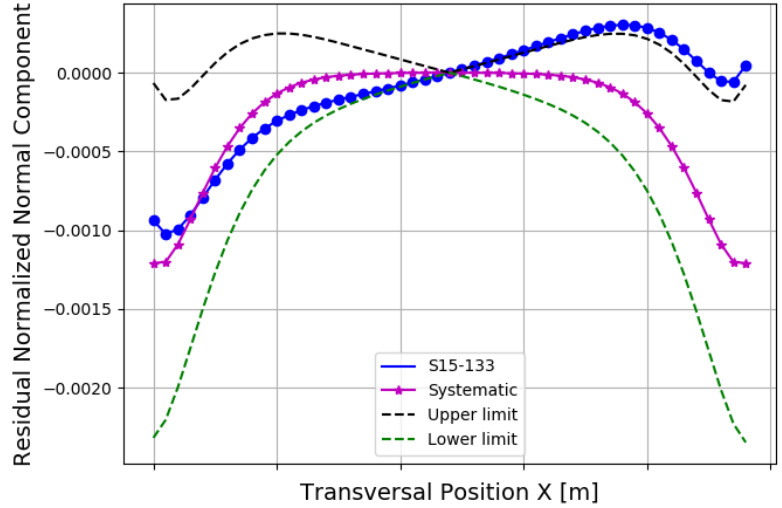
12 (-1.2 ± 0.5) × E-5 (-3.9 ± 96.4) × E-7

13 (-4 ± 7) × E-6 (2.0 ± 0.9) × E-5

14 (-2.0 ± 0.8) × E-5 (-3.2 ± 0.4) × E-5

15 (1.32 ± 0.01) × E-3 (-4 ± 8) × E-6

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

