



S15-121

STORAGE RING MAGNET REPORT

Results

Date 03/07/2018

Hour 12:16:07

Temperature [°C] 23.406

Number of Measurements 9

Main Coil Current [A] (167.7988 ± 0.0008)

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] (-359.632 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (4.70 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (21.26 ± 0.03)

Roll [mrad] - (< ±0.3) (-4.4 ± 0.3) × 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) (-1.480 ± 0.004) × E-3 (8.03 ± 0.04) × E-4

2 (quadrupole) (-7.84 ± 0.04) × E-4 (-3.544 ± 0.006) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-1.33 ± 0.08) × E-4

4 (1.73 ± 0.04) × E-4 (1.13 ± 0.03) × E-4

5 (-1.71 ± 0.07) × E-4 (7.8 ± 0.7) × E-5

6 (-7.8 ± 0.6) × E-5 (-1 ± 7) × E-6

7 (7 ± 8) × E-6 (-7.9 ± 0.8) × E-5

8 (-3 ± 5) × E-6 (5 ± 6) × E-6

9 (-2.007 ± 0.008) × E-3 (1.17 ± 0.08) × E-4

10 (-6 ± 6) × E-6 (2 ± 8) × E-6

11 (1.4 ± 0.6) × E-5 (-2 ± 9) × E-6

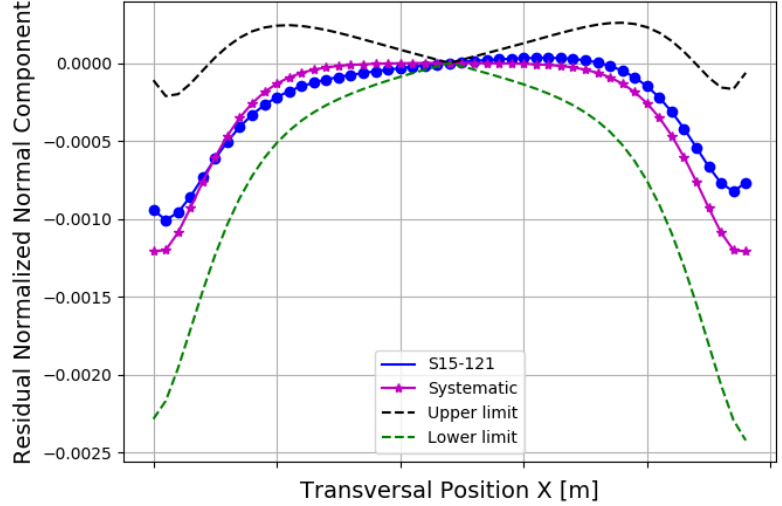
12 (5 ± 9) × E-6 (-2 ± 8) × E-6

13 (-1.3 ± 0.8) × E-5 (3 ± 8) × E-6

14 (-2 ± 8) × E-6 (-3.4 ± 0.7) × E-5

15 (1.314 ± 0.006) × E-3 (-8 ± 7) × E-6

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

