



S15-255

STORAGE RING MAGNET REPORT

Results

Date 27/07/2018

Hour 10:42:30

Temperature [°C] 23.484

Number of Measurements 9

Main Coil Current [A] (167.7982 ± 0.0006)

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] (-359.541 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (9.01 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (25.86 ± 0.06)

Roll [mrad] - (< ±0.3) (6.8 ± 0.6) × 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) (-1.035 ± 0.004) × E-3 (1.1 ± 0.1) × E-4

2 (quadrupole) (-1.501 ± 0.005) × E-3 (-4.31 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.0 ± 0.2) × E-4

4 (4.5 ± 0.2) × E-4 (3.5 ± 0.1) × E-4

5 (1.3 ± 0.1) × E-4 (-10 ± 1) × E-5

6 (-6 ± 1) × E-5 (-3 ± 2) × E-5

7 (8 ± 2) × E-5 (-9.06 ± 173.50) × E-7

8 (3 ± 2) × E-5 (-3 ± 2) × E-5

9 (-2.01 ± 0.02) × E-3 (4.8 ± 0.2) × E-4

10 (-2 ± 2) × E-5 (-9.5 ± 22.0) × E-6

11 (1 ± 2) × E-5 (-1 ± 2) × E-5

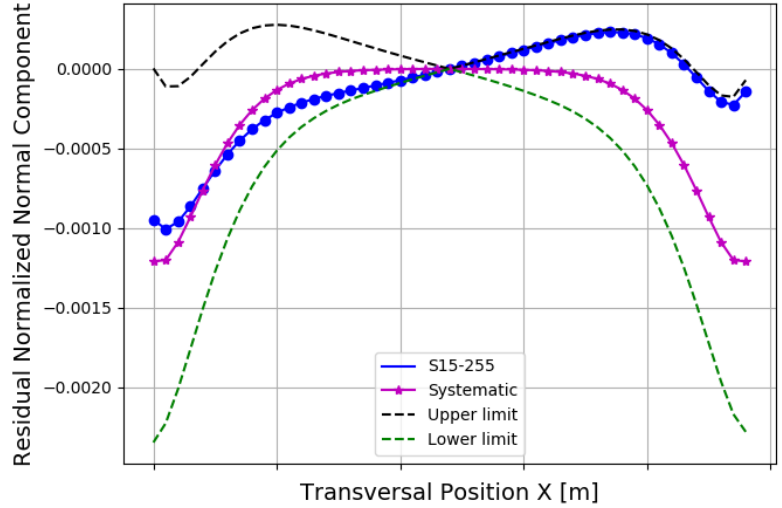
12 (1 ± 2) × E-5 (1.9 ± 17.5) × E-6

13 (-1 ± 2) × E-5 (3 ± 1) × E-5

14 (-5.8 ± 25.7) × E-6 (-6.0 ± 19.9) × E-6

15 (1.26 ± 0.02) × E-3 (-4 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

