



S15-043

STORAGE RING MAGNET REPORT

Results

Date 10/08/2018

Hour 15:26:44

Temperature [°C] 23.466

Number of Measurements 9

Main Coil Current [A] (167.7978 ± 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] (-360.409 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (25.79 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (24.65 ± 0.04)

Roll [mrad] - (< ±0.3) (9.09 ± 0.09) × 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) (-1.261 ± 0.006) × E-3 (2.46 ± 0.06) × E-4

2 (quadrupole) (-4.298 ± 0.005) × E-3 (-4.109 ± 0.006) × E-3

3 (sextupole) (1.000000 ± 0.000008) (2.73 ± 0.03) × E-4

4 (-3.7 ± 0.3) × E-5 (1.19 ± 0.06) × E-4

5 (1.27 ± 0.05) × E-4 (7.2 ± 0.5) × E-5

6 (-7.6 ± 0.2) × E-5 (-4.4 ± 0.4) × E-5

7 (9.6 ± 0.6) × E-5 (-5.8 ± 0.5) × E-5

8 (8 ± 5) × E-6 (8 ± 5) × E-6

9 (-1.990 ± 0.005) × E-3 (6.2 ± 0.5) × E-5

10 (-7 ± 6) × E-6 (-1.1 ± 0.5) × E-5

11 (-2 ± 6) × E-6 (-10 ± 5) × E-6

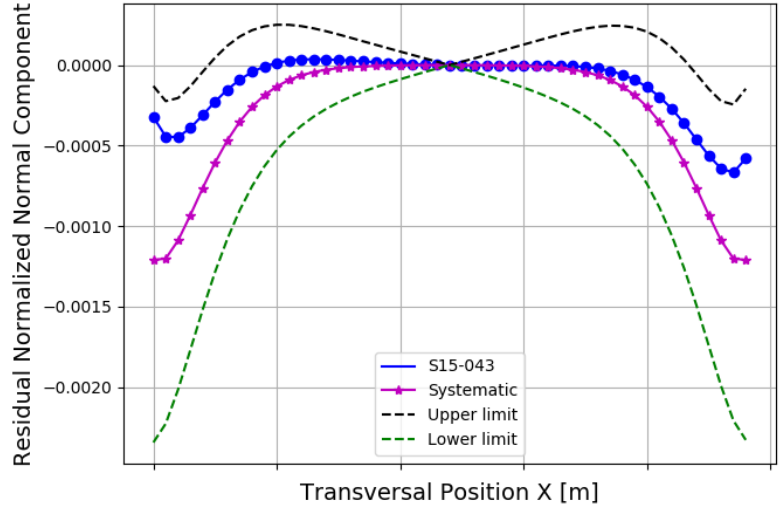
12 (2 ± 6) × E-6 (1.1 ± 0.4) × E-5

13 (-1.5 ± 0.5) × E-5 (2.1 ± 0.4) × E-5

14 (-1.9 ± 0.6) × E-5 (-4.6 ± 0.4) × E-5

15 (1.334 ± 0.003) × E-3 (1.7 ± 0.5) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

