



S15-041

STORAGE RING MAGNET REPORT

Results

Date 29/06/2018

Hour 10:32:31

Temperature [°C] 24.083

Number of Measurements 9

Main Coil Current [A] (167.797 ± 0.002)

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] (-360.671 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (14.26 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (24.92 ± 0.03)

Roll [mrad] - (< ±0.3) (5.0 ± 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) (5.30 ± 0.06) × E-4 (-2.73 ± 0.04) × E-4

2 (quadrupole) (-2.376 ± 0.008) × E-3 (-4.153 ± 0.005) × E-3

3 (sextupole) (1.00000 ± 0.00001) (1.49 ± 0.07) × E-4

4 (2.42 ± 0.09) × E-4 (-1.74 ± 0.09) × E-4

5 (3.60 ± 0.09) × E-4 (2.6 ± 0.1) × E-4

6 (-1.83 ± 0.09) × E-4 (-3 ± 1) × E-5

7 (9 ± 1) × E-5 (-10 ± 1) × E-5

8 (3 ± 2) × E-5 (5.3 ± 0.5) × E-5

9 (-1.98 ± 0.02) × E-3 (1.59 ± 0.09) × E-4

10 (-4 ± 9) × E-6 (1 ± 1) × E-5

11 (-1.4 ± 0.6) × E-5 (-5.3 ± 19.5) × E-6

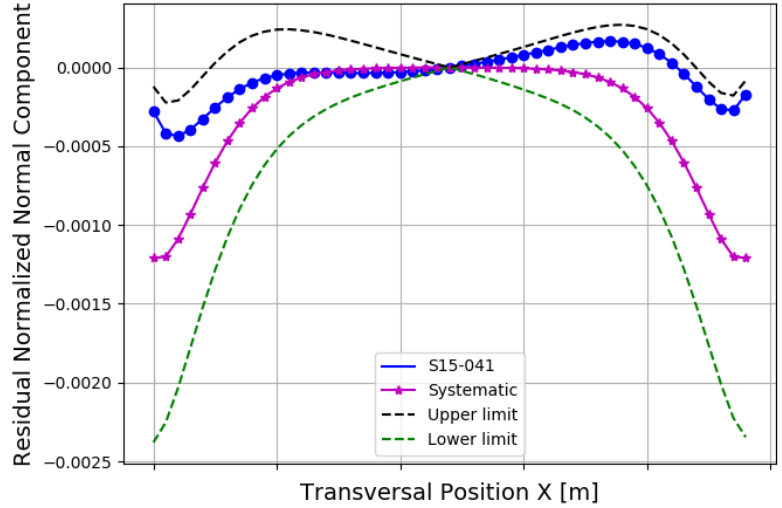
12 (1.3 ± 0.8) × E-5 (2.2 ± 0.9) × E-5

13 (2.2 ± 13.3) × E-6 (5 ± 10) × E-6

14 (-4.2 ± 0.9) × E-5 (-5.1 ± 0.9) × E-5

15 (1.31 ± 0.01) × E-3 (-1.7 ± 0.9) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

