



S15-065

STORAGE RING MAGNET REPORT

Results

Date 29/06/2018

Hour 08:50:57

Temperature [°C] 24.093

Number of Measurements 9

Main Coil Current [A] (167.7979 ± 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] (-359.261 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (20.60 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (29.11 ± 0.06)

Roll [mrad] - (< ±0.3) (2.3 ± 0.5) × E-2

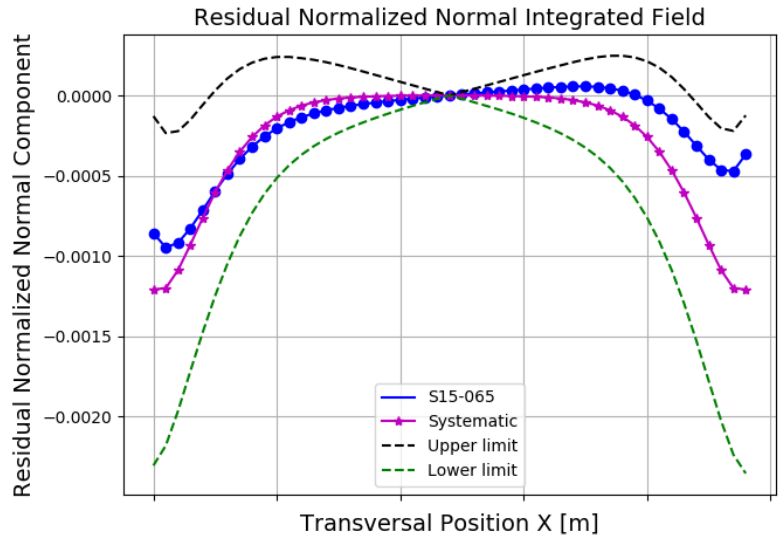
Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



Normalized Normal Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

Normalized Skew Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

n

1 (dipole)

(-9.04 ± 0.06) × E-4

(-3.26 ± 0.06) × E-4

2 (quadrupole)

(-3.434 ± 0.006) × E-3

(-4.851 ± 0.009) × E-3

3 (sextupole)

(1.000000 ± 0.000009)

(7 ± 2) × E-5

4

(1.5 ± 0.1) × E-4

(2.8 ± 0.1) × E-4

5

(-5 ± 2) × E-5

(3 ± 1) × E-5

6

(1.4 ± 0.1) × E-4

(-2.5 ± 12.3) × E-6

7

(4 ± 2) × E-5

(-2 ± 1) × E-5

8

(-4.9 ± 10.2) × E-6

(2 ± 2) × E-5

9

(-1.94 ± 0.02) × E-3

(2.07 ± 0.08) × E-4

10

(-1 ± 2) × E-5

(-3 ± 8) × E-6

11

(4 ± 1) × E-5

(-2 ± 1) × E-5

12

(-1 ± 1) × E-5

(-6.4 ± 18.0) × E-6

13

(-1.4 ± 0.5) × E-5

(4 ± 2) × E-5

14

(-2 ± 1) × E-5

(-3.6 ± 1.0) × E-5

15

(1.31 ± 0.01) × E-3

(-2.3 ± 0.9) × E-5

