



S15-169

STORAGE RING MAGNET REPORT

Results

Date 03/07/2018

Hour 15:47:20

Temperature [°C] 23.179

Number of Measurements 9

Main Coil Current [A] (167.7980 ± 0.0010)

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] (-359.450 ± 0.003)

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

(15.83 ± 0.03)

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

(26.83 ± 0.05)

Roll [mrad] - (< ±0.3)

(1 ± 3) × E-3

Electric Parameters

Inductance [mH]

3.157

Voltage [V]

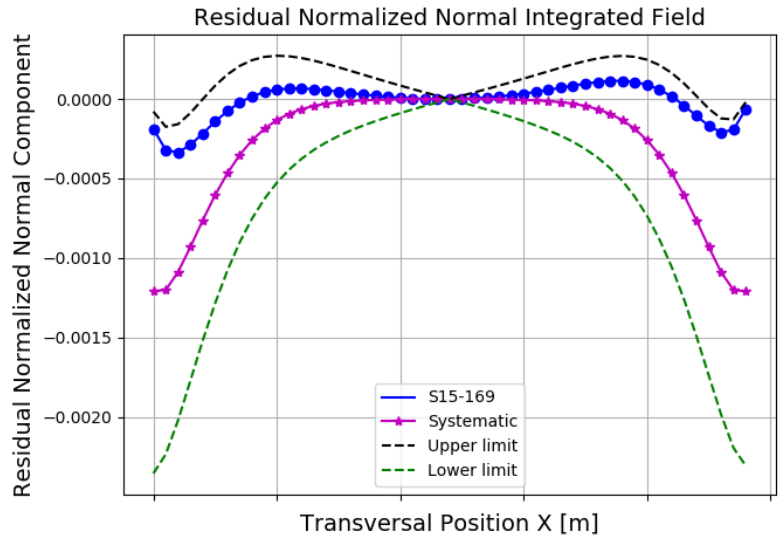
6.0106

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)

(1.98 ± 0.05) × E-4

(-4.12 ± 0.08) × E-4

2 (quadrupole)

(-2.639 ± 0.005) × E-3

(-4.472 ± 0.008) × E-3

3 (sextupole)

(1.00000 ± 0.00001)

(4 ± 10) × E-6

4

(2.2 ± 0.6) × E-5

(1.2 ± 0.1) × E-4

5

(4.43 ± 0.09) × E-4

(1.64 ± 0.10) × E-4

6

(8 ± 1) × E-5

(-6 ± 8) × E-6

7

(1.2 ± 0.1) × E-4

(-4.1 ± 0.6) × E-5

8

(-2.0 ± 14.6) × E-6

(4 ± 1) × E-5

9

(-2.015 ± 0.010) × E-3

(1.34 ± 0.10) × E-4

10

(-6.2 ± 52.7) × E-7

(-8.6 ± 15.2) × E-6

11

(-5.6 ± 10.2) × E-6

(-2 ± 1) × E-5

12

(-2 ± 1) × E-5

(7.35 ± 119.26) × E-7

13

(-1 ± 1) × E-5

(1.0 ± 0.7) × E-5

14

(-1 ± 1) × E-5

(-5.0 ± 1.0) × E-5

15

(1.34 ± 0.01) × E-3

(9.4 ± 14.3) × E-6

