



S15-146

STORAGE RING MAGNET REPORT

Results

Date 03/07/2018

Hour 13:00:43

Temperature [°C] 23.418

Number of Measurements 9

Main Coil Current [A] (167.7983 ± 0.0009)

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] (-360.125 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (9.98 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (24.88 ± 0.06)

Roll [mrad] - (< ±0.3) (-6.4 ± 0.3) × E-2

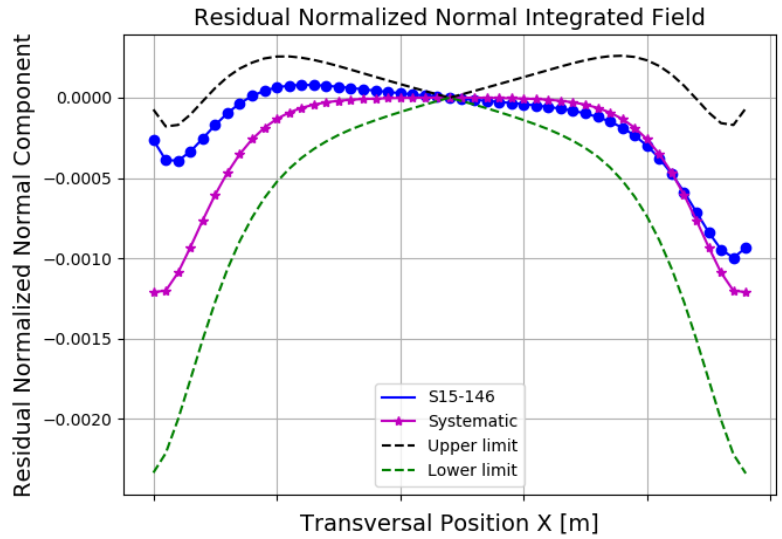
Electric Parameters

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)

(-1.075 ± 0.004) × E-3

(3.7 ± 0.1) × E-4

2 (quadrupole)

(-1.663 ± 0.006) × E-3

(-4.15 ± 0.01) × E-3

3 (sextupole)

(1.00000 ± 0.00001)

(-1.92 ± 0.09) × E-4

4

(-1.58 ± 0.05) × E-4

(2.61 ± 0.08) × E-4

5

(3.3 ± 0.7) × E-5

(-1.92 ± 0.07) × E-4

6

(-1.68 ± 0.06) × E-4

(-7 ± 8) × E-6

7

(5 ± 1) × E-5

(1.8 ± 0.8) × E-5

8

(-2.0 ± 69.7) × E-7

(1 ± 1) × E-5

9

(-2.03 ± 0.01) × E-3

(1.28 ± 0.09) × E-4

10

(1.1 ± 0.7) × E-5

(-5.6 ± 11.7) × E-6

11

(1 ± 9) × E-6

(-9.1 ± 12.0) × E-6

12

(-6 ± 10) × E-6

(5.68 ± 119.46) × E-7

13

(-2 ± 1) × E-5

(1.3 ± 0.6) × E-5

14

(-1.4 ± 0.7) × E-5

(-3 ± 1) × E-5

15

(1.36 ± 0.01) × E-3

(7 ± 10) × E-6

