



S15-010

## STORAGE RING MAGNET REPORT

### Results

Date 14/08/2018

Hour 15:35:41

Temperature [°C] 23.344

Number of Measurements 9

Main Coil Current [A] (167.797 ± 0.001)

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] (-360.195 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (24.66 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (18.04 ± 0.06)

Roll [mrad] - (< ±0.3) (1.4 ± 0.4) × E-2

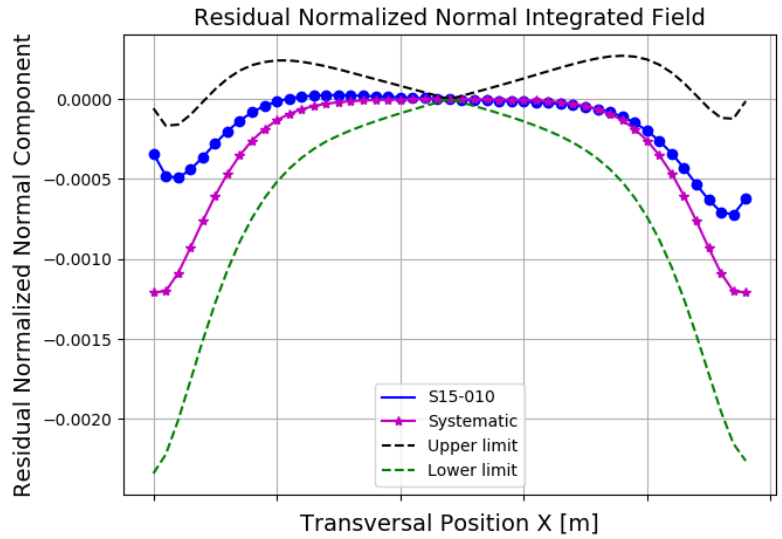
### Electric Parameters

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<sup>(2-n)</sup>]

Normalized Skew Multipoles  
x=12.0 mm  
[T.m<sup>(2-n)</sup>]

n

1 (dipole) (-1.092 ± 0.004) × E-3 (1.77 ± 0.09) × E-4

2 (quadrupole) (-4.110 ± 0.003) × E-3 (-3.006 ± 0.009) × E-3

3 (sextupole) (1.00000 ± 0.00001) (4 ± 1) × E-5

4 (-6.6 ± 0.3) × E-5 (-4.5 ± 0.7) × E-5

5 (1.9 ± 0.4) × E-5 (-3.03 ± 0.09) × E-4

6 (-5.1 ± 0.7) × E-5 (2 ± 7) × E-6

7 (2.3 ± 0.9) × E-5 (8.2 ± 0.9) × E-5

8 (9 ± 6) × E-6 (-2 ± 7) × E-6

9 (-1.856 ± 0.005) × E-3 (1.89 ± 0.07) × E-4

10 (3 ± 6) × E-6 (2.4 ± 0.8) × E-5

11 (7 ± 8) × E-6 (2.0 ± 0.8) × E-5

12 (-8 ± 6) × E-6 (-3 ± 7) × E-6

13 (-9 ± 8) × E-6 (-3 ± 7) × E-6

14 (-3.0 ± 0.8) × E-5 (-1.6 ± 0.9) × E-5

15 (1.335 ± 0.008) × E-3 (-4 ± 1) × E-5

