



S15-067

## STORAGE RING MAGNET REPORT

### Results

Date 02/07/2018

Hour 08:56:59

Temperature [°C] 24.468

Number of Measurements 9

Main Coil Current [A] (167.800 ± 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] (-359.217 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (12.94 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (24.74 ± 0.04)

Roll [mrad] - (< ±0.3) (-3.2 ± 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

n

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>]

1 (dipole) (-6.06 ± 0.03) × E-4 (3.13 ± 0.08) × E-4

2 (quadrupole) (-2.157 ± 0.003) × E-3 (-4.123 ± 0.007) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-9.6 ± 0.9) × E-5

4 (1.74 ± 0.06) × E-4 (1.1 ± 0.9) × E-5

5 (5.79 ± 0.05) × E-4 (3.2 ± 0.7) × E-5

6 (5.6 ± 0.6) × E-5 (-3.3 ± 0.8) × E-5

7 (2.14 ± 0.06) × E-4 (-3.4 ± 0.8) × E-5

8 (1.4 ± 0.5) × E-5 (4.5 ± 0.9) × E-5

9 (-1.972 ± 0.008) × E-3 (1.1 ± 0.1) × E-4

10 (-6 ± 9) × E-6 (9 ± 7) × E-6

11 (-1.4 ± 0.9) × E-5 (-7 ± 9) × E-6

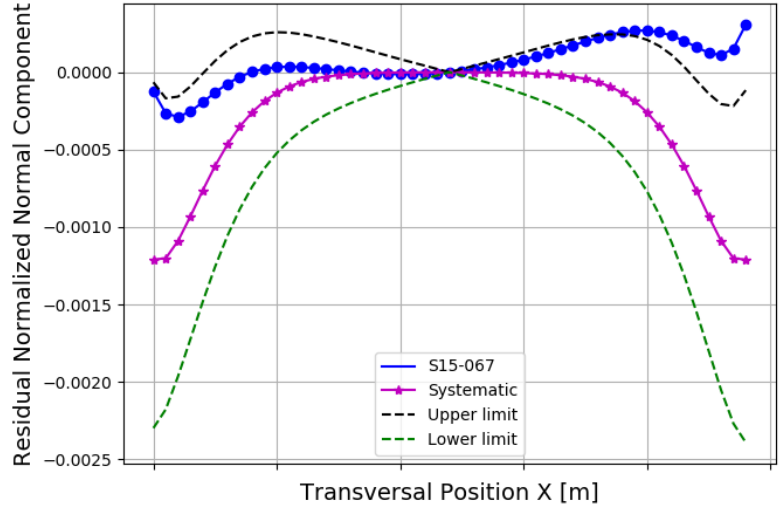
12 (1.7 ± 47.8) × E-7 (-1.3 ± 0.9) × E-5

13 (-2.8 ± 0.8) × E-5 (7 ± 6) × E-6

14 (-2.2 ± 0.5) × E-5 (-3.7 ± 0.9) × E-5

15 (1.312 ± 0.006) × E-3 (2.5 ± 12.6) × E-6

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

