



# S15-250

## STORAGE RING MAGNET REPORT

### Results

Date 12/07/2018

Hour 12:32:51

Temperature [°C] 22.939

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] (-359.525 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (13.77 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (27.17 ± 0.05)

Roll [mrad] - (< ±0.3) (1.9 ± 0.2) × 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) (-5.51 ± 0.03) × E-4 (-1.77 ± 0.05) × E-4

2 (quadrupole) (-2.294 ± 0.006) × E-3 (-4.529 ± 0.008) × E-3

3 (sextupole) (1.00000 ± 0.00002) (5.7 ± 0.6) × E-5

4 (1.93 ± 0.10) × E-4 (8.9 ± 0.7) × E-5

5 (1.25 ± 0.05) × E-4 (5 ± 1) × E-5

6 (-1.04 ± 0.07) × E-4 (-1 ± 1) × E-5

7 (5 ± 1) × E-5 (-4 ± 1) × E-5

8 (2.8 ± 0.9) × E-5 (1.2 ± 0.9) × E-5

9 (-2.05 ± 0.01) × E-3 (3.0 ± 0.1) × E-4

10 (9.04 ± 123.69) × E-7 (7.9 ± 12.8) × E-6

11 (1.84 ± 119.19) × E-7 (3.00 ± 106.24) × E-7

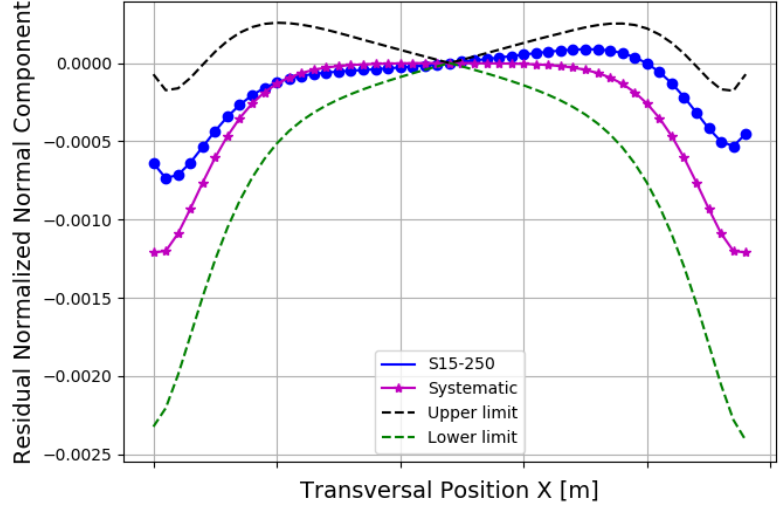
12 (2.636 ± 1112.414) × E-8 (1 ± 1) × E-5

13 (-1 ± 1) × E-5 (2 ± 2) × E-5

14 (-2.5 ± 0.9) × E-5 (-3 ± 1) × E-5

15 (1.34 ± 0.02) × E-3 (1.8 ± 0.7) × E-5

### Residual Normalized Normal Integrated Field



### Residual Normalized Skew Integrated Field

