



S15-265

## STORAGE RING MAGNET REPORT

### Results

Date 18/07/2018

Hour 09:50:44

Temperature [°C] 23.221

Number of Measurements 9

Main Coil Current [A] (167.7976 ± 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] (-359.651 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (8.56 ± 0.08)

Magnet Center Offset Y [μm] - (< ±40.0) (18.0 ± 0.1)

Roll [mrad] - (< ±0.3) (9.7 ± 0.6) × 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) (-1.822 ± 0.004) × E-3 (-3.3 ± 0.2) × E-4

2 (quadrupole) (-1.43 ± 0.01) × E-3 (-3.01 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.9 ± 0.2) × E-4

4 (3.04 ± 0.09) × E-4 (-2.0 ± 0.2) × E-4

5 (3.1 ± 0.2) × E-4 (10 ± 2) × E-5

6 (7 ± 2) × E-5 (-2 ± 2) × E-5

7 (1.8 ± 0.2) × E-4 (-8 ± 3) × E-5

8 (-2 ± 2) × E-5 (2 ± 2) × E-5

9 (-2.07 ± 0.01) × E-3 (5.3 ± 0.1) × E-4

10 (2 ± 1) × E-5 (3 ± 1) × E-5

11 (-2.9 ± 14.4) × E-6 (-3 ± 2) × E-5

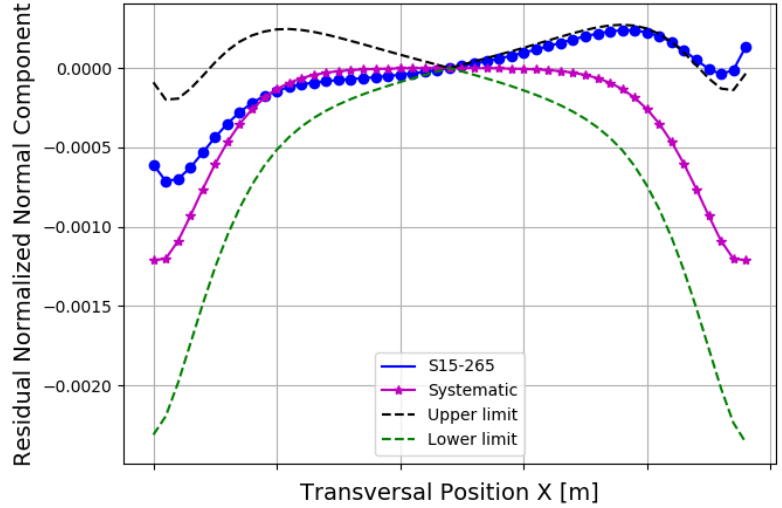
12 (1.3 ± 23.1) × E-6 (-9.29 ± 264.29) × E-7

13 (-3 ± 3) × E-5 (2 ± 2) × E-5

14 (-5.3 ± 21.6) × E-6 (-4 ± 2) × E-5

15 (1.37 ± 0.02) × E-3 (-8 ± 3) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

