



# S15-245

## STORAGE RING MAGNET REPORT

### Results

Date 17/07/2018

Hour 09:29:47

Temperature [°C] 23.561

Number of Measurements 9

Main Coil Current [A] (167.7985 ± 0.0007)

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] (-359.719 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (10.67 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (24.3 ± 0.1)

Roll [mrad] - (< ±0.3) (7.6 ± 0.5) × 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) (-5.79 ± 0.07) × E-4 (4.4 ± 0.2) × E-4

2 (quadrupole) (-1.778 ± 0.007) × E-3 (-4.05 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.3 ± 0.2) × E-4

4 (3.62 ± 0.08) × E-4 (-1.3 ± 0.2) × E-4

5 (6.7 ± 0.8) × E-5 (-7 ± 1) × E-5

6 (-3.6 ± 0.9) × E-5 (-2 ± 2) × E-5

7 (4.4 ± 1.0) × E-5 (-6.3 ± 13.0) × E-6

8 (2.6 ± 0.6) × E-5 (4 ± 1) × E-5

9 (-2.06 ± 0.01) × E-3 (2.5 ± 0.1) × E-4

10 (-6.5 ± 84.9) × E-7 (-9.7 ± 13.3) × E-6

11 (2 ± 1) × E-5 (-3.1 ± 15.5) × E-6

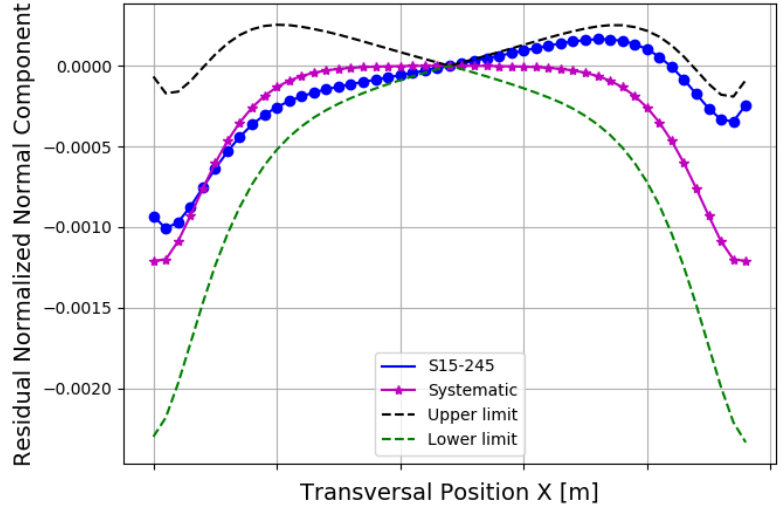
12 (9.4 ± 11.3) × E-6 (9.1 ± 12.5) × E-6

13 (-1.5 ± 11.7) × E-6 (2 ± 2) × E-5

14 (-2 ± 2) × E-5 (-6 ± 2) × E-5

15 (1.34 ± 0.02) × E-3 (3 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

