



S15-241

## STORAGE RING MAGNET REPORT

### Results

Date 13/07/2018

Hour 14:53:10

Temperature [°C] 22.944

Number of Measurements 9

Main Coil Current [A] (167.7978 ± 0.0005)

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] (-359.488 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (12.60 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (29.16 ± 0.08)

Roll [mrad] - (< ±0.3) (-7.2 ± 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) (-4.73 ± 0.06) × E-4 (4.3 ± 0.1) × E-4

2 (quadrupole) (-2.100 ± 0.008) × E-3 (-4.86 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00002) (-2.2 ± 0.2) × E-4

4 (3.3 ± 0.2) × E-4 (4.2 ± 0.2) × E-4

5 (2.6 ± 0.1) × E-4 (-2 ± 2) × E-5

6 (-5 ± 2) × E-5 (-9.5 ± 15.5) × E-6

7 (1.0 ± 0.2) × E-4 (-3 ± 1) × E-5

8 (-2.3 ± 15.0) × E-6 (2 ± 1) × E-5

9 (-2.05 ± 0.02) × E-3 (4.7 ± 0.2) × E-4

10 (5 ± 2) × E-5 (-4 ± 2) × E-5

11 (-8.2 ± 22.2) × E-6 (-2 ± 2) × E-5

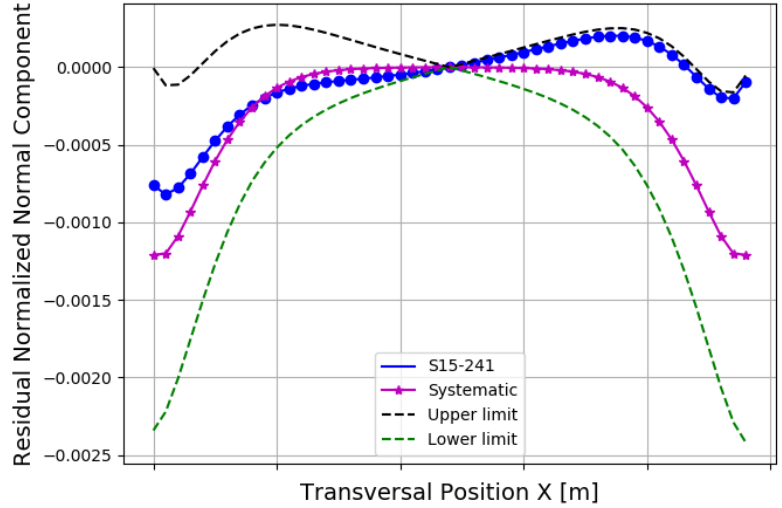
12 (1 ± 2) × E-5 (1.4 ± 1.0) × E-5

13 (-2 ± 1) × E-5 (2 ± 3) × E-5

14 (4.28 ± 176.14) × E-7 (-6 ± 2) × E-5

15 (1.29 ± 0.02) × E-3 (-4 ± 3) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

