



# S15-123

## STORAGE RING MAGNET REPORT

### Results

Date 06/07/2018

Hour 09:04:51

Temperature [°C] 23.651

Number of Measurements 9

Main Coil Current [A] (167.7978 ± 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] (-359.823 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (13.04 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (27.49 ± 0.06)

Roll [mrad] - (< ±0.3) (-3.6 ± 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) (-8.82 ± 0.09) × E-4 (3.4 ± 0.1) × E-4

2 (quadrupole) (-2.173 ± 0.003) × E-3 (-4.58 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-1.08 ± 0.08) × E-4

4 (-2.19 ± 0.04) × E-4 (5.58 ± 0.09) × E-4

5 (2.19 ± 0.06) × E-4 (-1.31 ± 0.09) × E-4

6 (-9 ± 7) × E-6 (-8 ± 9) × E-6

7 (1.16 ± 0.07) × E-4 (1.1 ± 0.7) × E-5

8 (-5 ± 7) × E-6 (-4 ± 8) × E-6

9 (-1.990 ± 0.007) × E-3 (1.7 ± 0.1) × E-4

10 (2.1 ± 0.8) × E-5 (-10 ± 9) × E-6

11 (-8 ± 7) × E-6 (1 ± 9) × E-6

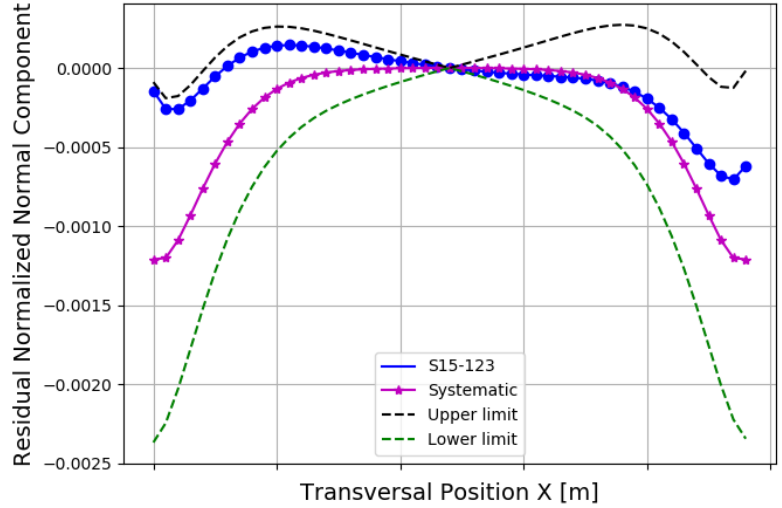
12 (-1.7 ± 0.9) × E-5 (-7.6 ± 10.0) × E-6

13 (-3.7 ± 0.6) × E-5 (9.2 ± 11.4) × E-6

14 (-8 ± 10) × E-6 (-2 ± 1) × E-5

15 (1.317 ± 0.006) × E-3 (9 ± 8) × E-6

### Residual Normalized Normal Integrated Field



### Residual Normalized Skew Integrated Field

