



# S15-163

## STORAGE RING MAGNET REPORT

### Results

Date 08/08/2018

Hour 10:07:28

Temperature [°C] 23.595

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.003)

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] (-359.601 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (18.95 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (26.89 ± 0.04)

Roll [mrad] - (< ±0.3) (6.6 ± 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) (-6.24 ± 0.06) × E-4 (4.18 ± 0.08) × E-4

2 (quadrupole) (-3.158 ± 0.004) × E-3 (-4.482 ± 0.007) × E-3

3 (sextupole) (1.00000 ± 0.00001) (1.99 ± 0.09) × E-4

4 (-1.3 ± 0.8) × E-5 (6.9 ± 0.7) × E-5

5 (2.8 ± 0.1) × E-4 (-4.30 ± 0.06) × E-4

6 (-8.6 ± 0.8) × E-5 (-3.9 ± 0.7) × E-5

7 (1.13 ± 0.09) × E-4 (10 ± 1) × E-5

8 (1.6 ± 0.5) × E-5 (9.36 ± 130.65) × E-7

9 (-2.031 ± 0.005) × E-3 (6 ± 1) × E-5

10 (-1 ± 1) × E-5 (-1.1 ± 1.0) × E-5

11 (2 ± 2) × E-5 (1.1 ± 0.3) × E-5

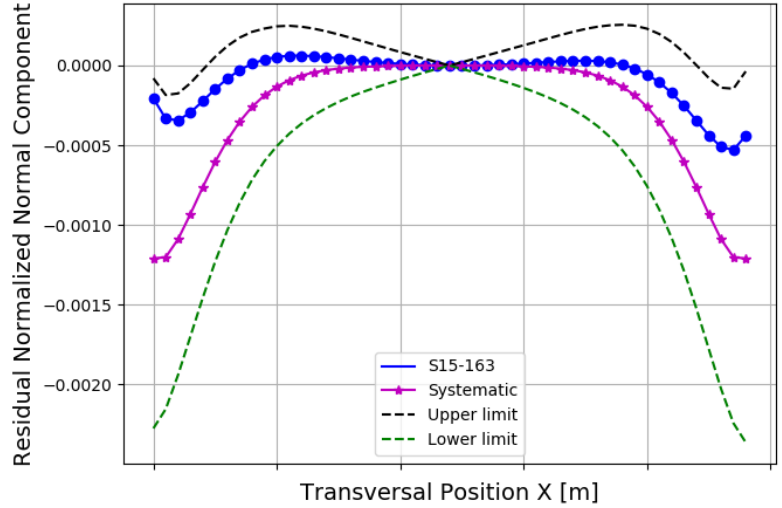
12 (-7.0 ± 13.8) × E-6 (8.7 ± 11.4) × E-6

13 (-1.5 ± 1.0) × E-5 (-1 ± 2) × E-5

14 (-1.5 ± 0.6) × E-5 (-3 ± 2) × E-5

15 (1.32 ± 0.01) × E-3 (-6.4 ± 14.3) × E-6

### Residual Normalized Normal Integrated Field



### Residual Normalized Skew Integrated Field

