



# S15-110

## STORAGE RING MAGNET REPORT

### Results

Date 17/08/2018

Hour 12:32:57

Temperature [°C] 23.532

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.001)

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] (-359.899 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (2.23 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (21.32 ± 0.07)

Roll [mrad] - (< ±0.3) (2.8 ± 0.4) × 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) (-7.66 ± 0.06) × E-4 (4.8 ± 1.0) × E-5

2 (quadrupole) (-3.72 ± 0.04) × E-4 (-3.55 ± 0.01) × E-3

3 (sextupole) (1.000000 ± 0.000010) (8 ± 1) × E-5

4 (-2.1 ± 0.6) × E-5 (5.5 ± 12.6) × E-6

5 (1.29 ± 0.05) × E-4 (-10 ± 1) × E-5

6 (-7 ± 1) × E-5 (-1 ± 1) × E-5

7 (6.0 ± 0.9) × E-5 (3 ± 1) × E-5

8 (-1 ± 1) × E-5 (4 ± 1) × E-5

9 (-2.074 ± 0.010) × E-3 (1.6 ± 0.1) × E-4

10 (1.9 ± 0.8) × E-5 (8 ± 6) × E-6

11 (8 ± 10) × E-6 (-8 ± 7) × E-6

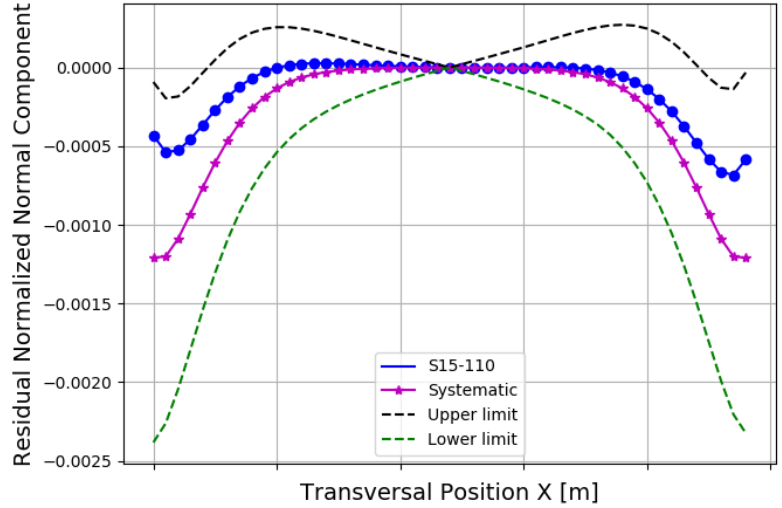
12 (1.3 ± 0.8) × E-5 (-1 ± 7) × E-6

13 (-7.9 ± 10.3) × E-6 (1.7 ± 0.8) × E-5

14 (-2.4 ± 10.4) × E-6 (-3.1 ± 0.9) × E-5

15 (1.377 ± 0.008) × E-3 (5 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

