



S15-088

STORAGE RING MAGNET REPORT

Results

Date 29/08/2018

Hour 12:48:39

Temperature [°C] 23.441

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] (-359.944 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (15.88 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (22.24 ± 0.09)

Roll [mrad] - (< ±0.3) (2.8 ± 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⁽²⁻ⁿ⁾]

Normalized
Skew
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

1 (dipole) (-2.6 ± 0.1) × E-4 (-2 ± 2) × E-5

2 (quadrupole) (-2.647 ± 0.003) × E-3 (-3.71 ± 0.02) × E-3

3 (sextupole) (1.000000 ± 0.000008) (9 ± 2) × E-5

4 (1.50 ± 0.03) × E-4 (6 ± 1) × E-5

5 (8.5 ± 0.3) × E-5 (-1.4 ± 0.2) × E-4

6 (-3.1 ± 0.5) × E-5 (-1.53 ± 130.84) × E-7

7 (4.2 ± 0.4) × E-5 (4 ± 2) × E-5

8 (3.4 ± 0.6) × E-5 (4 ± 1) × E-5

9 (-1.741 ± 0.009) × E-3 (3.0 ± 0.1) × E-4

10 (-2 ± 1) × E-5 (-2 ± 1) × E-5

11 (-1.9 ± 1.0) × E-5 (-1 ± 1) × E-5

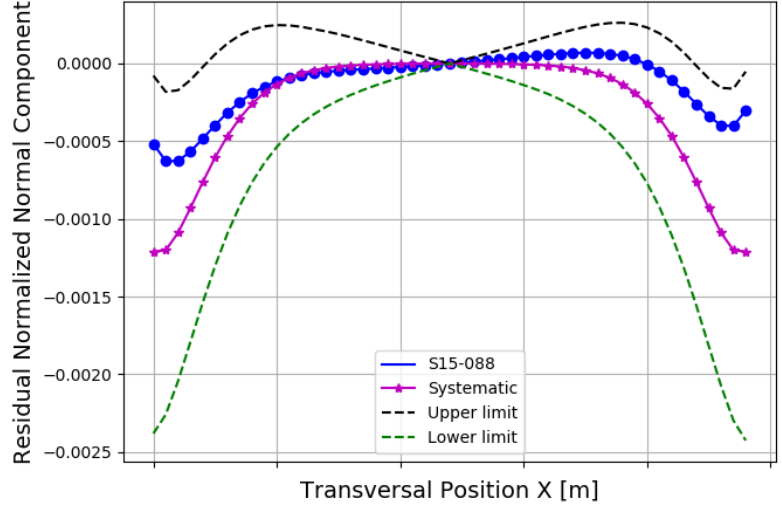
12 (2 ± 7) × E-6 (-3 ± 10) × E-6

13 (-2.0 ± 0.8) × E-5 (4 ± 10) × E-6

14 (-2.8 ± 0.6) × E-5 (-3.9 ± 0.8) × E-5

15 (1.244 ± 0.009) × E-3 (-1.0 ± 0.1) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

