



S15-106

STORAGE RING MAGNET REPORT

Results

Date 13/07/2018

Hour 10:39:08

Temperature [°C] 22.788

Number of Measurements 9

Main Coil Current [A] (167.7978 ± 0.0008)

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] (-360.005 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (7.31 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (17.22 ± 0.05)

Roll [mrad] - (< ±0.3) (9.0 ± 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⁽²⁻ⁿ⁾]

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

1 (dipole) (-2.40 ± 0.03) × E-4 (-6.7 ± 95.0) × E-7

2 (quadrupole) (-1.218 ± 0.004) × E-3 (-2.870 ± 0.009) × E-3

3 (sextupole) (1.000000 ± 0.000007) (2.7 ± 0.1) × E-4

4 (1.70 ± 0.04) × E-4 (-3.2 ± 1.0) × E-5

5 (2.06 ± 0.06) × E-4 (-4 ± 1) × E-5

6 (3 ± 7) × E-6 (-3.8 ± 10.4) × E-6

7 (6.3 ± 0.9) × E-5 (-2 ± 1) × E-5

8 (6 ± 6) × E-6 (-8 ± 6) × E-6

9 (-2.06 ± 0.01) × E-3 (2.7 ± 0.1) × E-4

10 (7 ± 8) × E-6 (6.4 ± 61.5) × E-7

11 (-7.7 ± 10.4) × E-6 (3.1 ± 0.8) × E-5

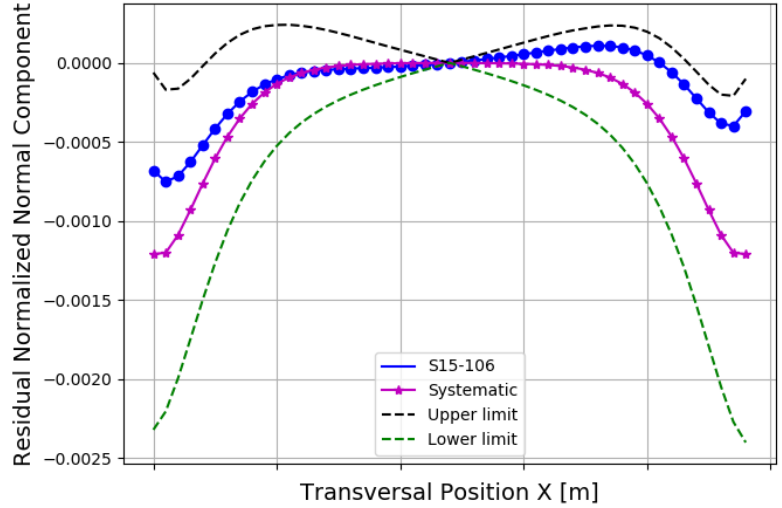
12 (4 ± 10) × E-6 (-1.2 ± 1.0) × E-5

13 (7.4 ± 67.5) × E-7 (3.0 ± 0.7) × E-5

14 (-2 ± 9) × E-6 (-6.5 ± 13.0) × E-6

15 (1.307 ± 0.010) × E-3 (4 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

