



S15-086

STORAGE RING MAGNET REPORT

Results

Date 18/07/2018

Hour 10:53:20

Temperature [°C] 23.314

Number of Measurements 9

Main Coil Current [A] (167.7974 ± 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] (-359.590 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (12.87 ± 0.06)

Magnet Center Offset Y [μm] - (< ±40.0) (17.7 ± 0.1)

Roll [mrad] - (< ±0.3) (2.4 ± 0.9) × 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) (-3.32 ± 0.07) × E-4 (-2.8 ± 0.2) × E-4

2 (quadrupole) (-2.145 ± 0.010) × E-3 (-2.95 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00002) (7 ± 3) × E-5

4 (1.4 ± 0.1) × E-4 (9.5 ± 28.5) × E-6

5 (1.9 ± 0.1) × E-4 (2.3 ± 0.2) × E-4

6 (-7 ± 2) × E-5 (4 ± 2) × E-5

7 (6 ± 2) × E-5 (-9 ± 2) × E-5

8 (-9.8 ± 18.6) × E-6 (9.8 ± 15.5) × E-6

9 (-1.85 ± 0.03) × E-3 (5.1 ± 0.2) × E-4

10 (2 ± 1) × E-5 (-2 ± 1) × E-5

11 (2 ± 2) × E-5 (3 ± 2) × E-5

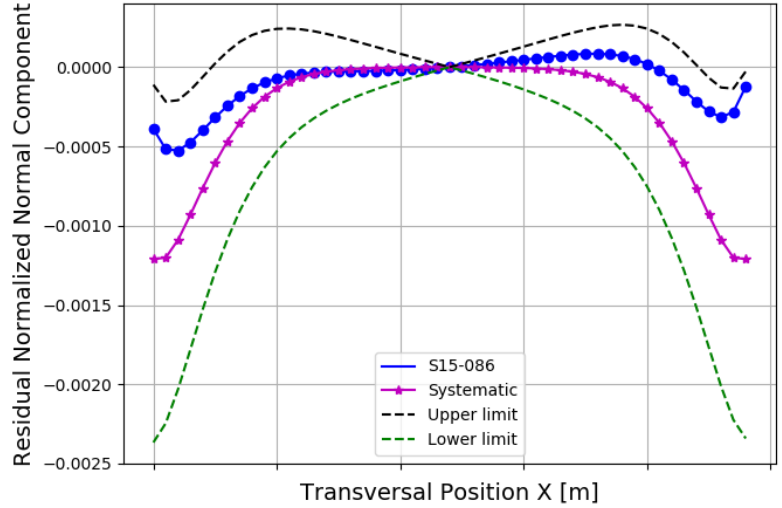
12 (3 ± 2) × E-5 (-2 ± 1) × E-5

13 (4.8 ± 21.3) × E-6 (4 ± 3) × E-5

14 (1 ± 1) × E-5 (-3.17 ± 123.71) × E-7

15 (1.32 ± 0.02) × E-3 (-9 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

