



S15-248

STORAGE RING MAGNET REPORT

Results

Date 04/09/2018

Hour 10:28:49

Temperature [°C] 23.355

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] (-360.139 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (19.12 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (28.7 ± 0.2)

Roll [mrad] - (< ±0.3) (4.6 ± 0.8) × 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) (7.9 ± 0.4) × E-5 (3.9 ± 0.3) × E-4

2 (quadrupole) (-3.187 ± 0.007) × E-3 (-4.79 ± 0.03) × E-3

3 (sextupole) (1.00000 ± 0.00001) (1.4 ± 0.2) × E-4

4 (-2.49 ± 0.08) × E-4 (1.4 ± 0.3) × E-4

5 (1.76 ± 0.10) × E-4 (-1.8 ± 0.2) × E-4

6 (5 ± 1) × E-5 (2 ± 2) × E-5

7 (5 ± 1) × E-5 (4 ± 2) × E-5

8 (4 ± 1) × E-5 (3 ± 2) × E-5

9 (-1.807 ± 0.010) × E-3 (4.4 ± 0.2) × E-4

10 (-2.8 ± 11.2) × E-6 (-4.1 ± 18.3) × E-6

11 (6.9 ± 15.7) × E-6 (1 ± 2) × E-5

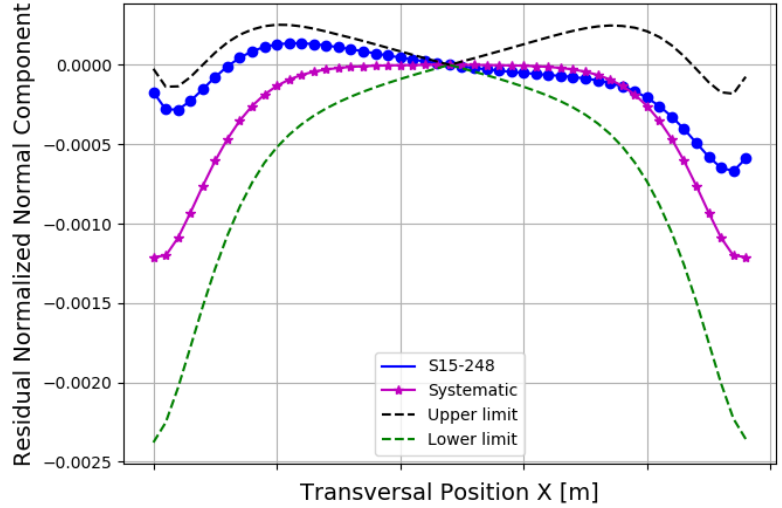
12 (-5.2 ± 17.0) × E-6 (-2 ± 3) × E-5

13 (-3.0 ± 11.8) × E-6 (-3.6 ± 17.5) × E-6

14 (-4 ± 1) × E-5 (-2 ± 2) × E-5

15 (1.193 ± 0.009) × E-3 (-1.5 ± 0.2) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

