



S15-102

STORAGE RING MAGNET REPORT

Results

Date 01/08/2018

Hour 10:20:45

Temperature [°C] 23.537

Number of Measurements 9

Main Coil Current [A] (167.7988 ± 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] (-359.902 ± 0.008)

Magnet Center Offset X [μm] - (< ±40.0) (11.5 ± 0.1)

Magnet Center Offset Y [μm] - (< ±40.0) (21.5 ± 0.2)

Roll [mrad] - (< ±0.3) (-3 ± 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) (-1.9 ± 0.1) × E-4 (-3.9 ± 0.4) × E-4

2 (quadrupole) (-1.92 ± 0.02) × E-3 (-3.59 ± 0.03) × E-3

3 (sextupole) (1.00000 ± 0.00003) (-8 ± 9) × E-5

4 (5 ± 5) × E-5 (1.6 ± 0.6) × E-4

5 (3 ± 2) × E-5 (1.5 ± 0.3) × E-4

6 (-2 ± 2) × E-5 (2 ± 5) × E-5

7 (-4 ± 3) × E-5 (-2 ± 3) × E-5

8 (-4 ± 1) × E-5 (4 ± 4) × E-5

9 (-1.79 ± 0.03) × E-3 (8.5 ± 0.2) × E-4

10 (8 ± 3) × E-5 (-2 ± 4) × E-5

11 (-3 ± 4) × E-5 (-7 ± 3) × E-5

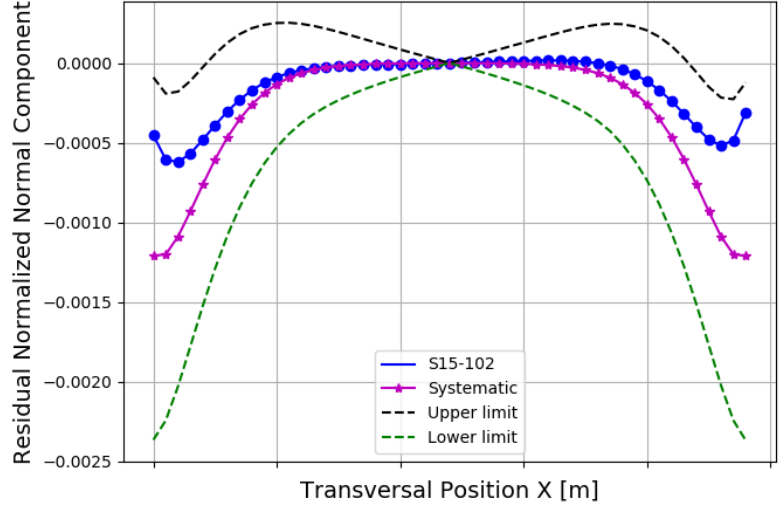
12 (1 ± 3) × E-5 (6.1 ± 44.1) × E-6

13 (9.8 ± 40.4) × E-6 (2 ± 4) × E-5

14 (-2 ± 3) × E-5 (-3 ± 5) × E-5

15 (1.44 ± 0.09) × E-3 (-2.2 ± 26.7) × E-6

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

