



S15-061

STORAGE RING MAGNET REPORT

Results

Date 03/07/2018

Hour 10:15:36

Temperature [°C] 23.463

Number of Measurements 9

Main Coil Current [A] (167.7991 ± 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] (-359.148 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (19.71 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (20.46 ± 0.05)

Roll [mrad] - (< ±0.3) (5.7 ± 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) (4.5 ± 0.3) × E-5 (-3.20 ± 0.07) × E-4

2 (quadrupole) (-3.285 ± 0.006) × E-3 (-3.410 ± 0.008) × E-3

3 (sextupole) (1.00000 ± 0.00001) (1.70 ± 0.09) × E-4

4 (7.5 ± 0.7) × E-5 (9.97 ± 113.57) × E-7

5 (5.82 ± 0.05) × E-4 (3.13 ± 0.10) × E-4

6 (-7.0 ± 0.8) × E-5 (1.1 ± 76.1) × E-7

7 (1.74 ± 0.09) × E-4 (-9.2 ± 0.6) × E-5

8 (1.6 ± 0.6) × E-5 (4 ± 1) × E-5

9 (-1.976 ± 0.008) × E-3 (1.1 ± 0.1) × E-4

10 (1.7 ± 1.0) × E-5 (-9.8 ± 93.4) × E-7

11 (-6 ± 9) × E-6 (-1 ± 1) × E-5

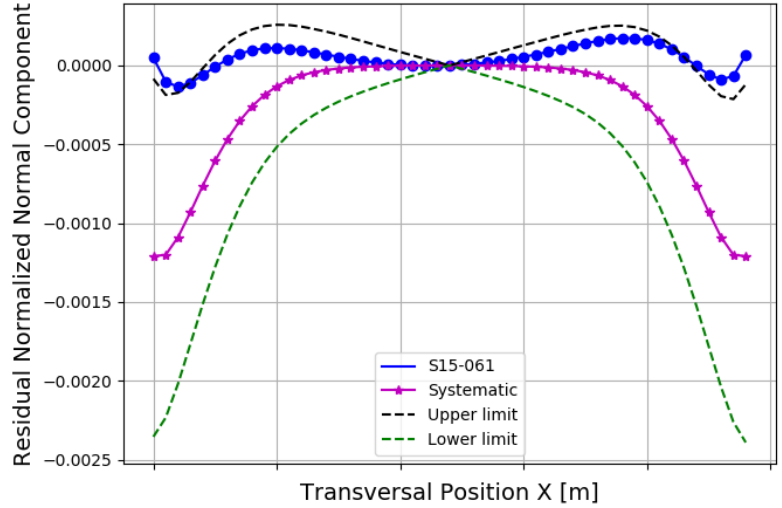
12 (-6 ± 8) × E-6 (2 ± 7) × E-6

13 (-1.6 ± 0.7) × E-5 (1.1 ± 0.9) × E-5

14 (-2.3 ± 0.8) × E-5 (-3.9 ± 0.8) × E-5

15 (1.299 ± 0.010) × E-3 (5 ± 8) × E-6

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

