



S15-132

STORAGE RING MAGNET REPORT

Results

Date 05/07/2018

Hour 14:33:42

Temperature [°C] 23.661

Number of Measurements 9

Main Coil Current [A] (167.7982 ± 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] (-359.914 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (13.29 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (23.57 ± 0.05)

Roll [mrad] - (< ±0.3) (6.3 ± 0.5) × 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) (-2.43 ± 0.07) × E-4 (4.38 ± 0.04) × E-4

2 (quadrupole) (-2.214 ± 0.008) × E-3 (-3.928 ± 0.008) × E-3

3 (sextupole) (1.00000 ± 0.00001) (1.9 ± 0.1) × E-4

4 (2.1 ± 0.1) × E-4 (1.7 ± 0.1) × E-4

5 (4.5 ± 0.1) × E-4 (-1.6 ± 0.1) × E-4

6 (1.74 ± 0.09) × E-4 (-2.5 ± 1.0) × E-5

7 (1.3 ± 0.2) × E-4 (1 ± 2) × E-5

8 (2.4 ± 27.5) × E-6 (2 ± 3) × E-5

9 (-1.97 ± 0.02) × E-3 (3.8 ± 0.2) × E-4

10 (3 ± 3) × E-5 (-2 ± 2) × E-5

11 (-9.6 ± 22.5) × E-6 (-1 ± 1) × E-5

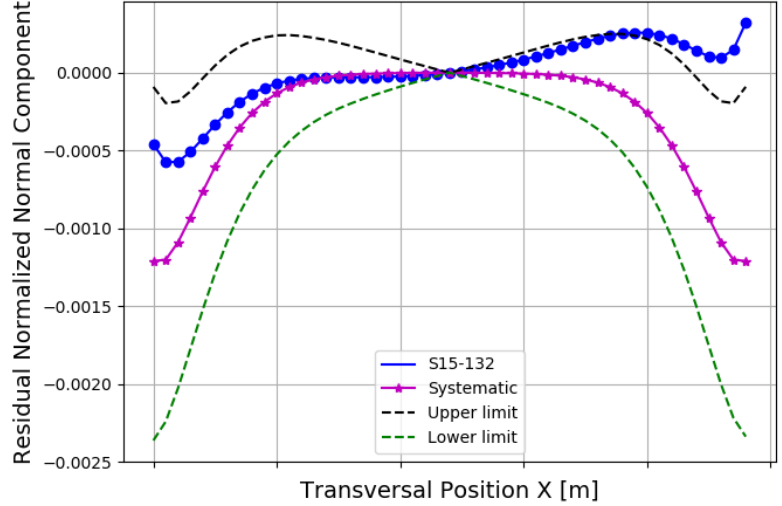
12 (-3 ± 2) × E-5 (7.2 ± 10.4) × E-6

13 (-2.6 ± 27.6) × E-6 (9.6 ± 15.2) × E-6

14 (4.0 ± 15.2) × E-6 (-6 ± 3) × E-5

15 (1.34 ± 0.02) × E-3 (-4 ± 3) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

