



S15-099

STORAGE RING MAGNET REPORT

Results

Date 01/08/2018

Hour 09:39:12

Temperature [°C] 23.502

Number of Measurements 9

Main Coil Current [A] (167.7988 ± 0.0004)

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] (-359.551 ± 0.007)

Magnet Center Offset X [μm] - (< ±40.0) (17.70 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (19.1 ± 0.2)

Roll [mrad] - (< ±0.3) (-1 ± 1) × 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) (-9.25 ± 0.08) × E-4 (-5.6 ± 0.4) × E-4

2 (quadrupole) (-2.950 ± 0.008) × E-3 (-3.19 ± 0.04) × E-3

3 (sextupole) (1.00000 ± 0.00003) (-4 ± 3) × E-5

4 (7 ± 2) × E-5 (-9 ± 3) × E-5

5 (3 ± 1) × E-5 (8 ± 3) × E-5

6 (-1.8 ± 0.2) × E-4 (3.8 ± 39.6) × E-6

7 (-1 ± 3) × E-5 (2 ± 4) × E-5

8 (1 ± 1) × E-5 (2 ± 4) × E-5

9 (-1.72 ± 0.03) × E-3 (8.3 ± 0.4) × E-4

10 (-1 ± 2) × E-5 (2 ± 3) × E-5

11 (2 ± 3) × E-5 (-2 ± 4) × E-5

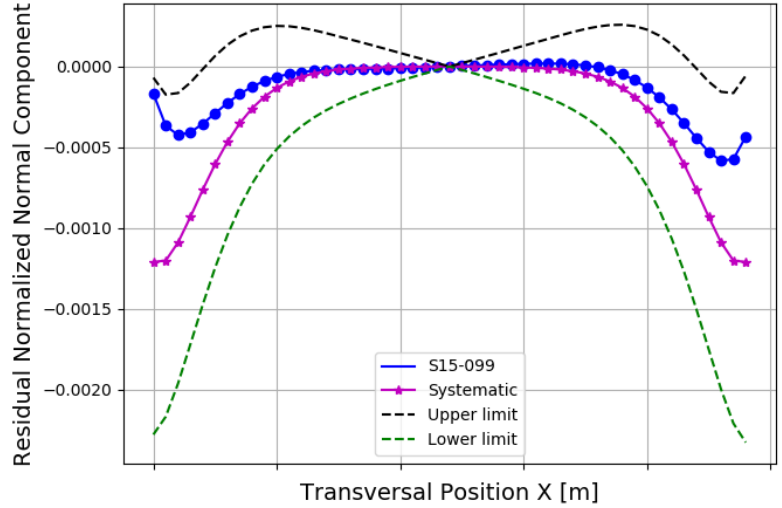
12 (-2 ± 2) × E-5 (4.45 ± 230.37) × E-7

13 (4 ± 4) × E-5 (-5.0 ± 54.5) × E-6

14 (-1 ± 2) × E-5 (9.8 ± 20.4) × E-6

15 (1.34 ± 0.04) × E-3 (-4 ± 3) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

