



S15-217

STORAGE RING MAGNET REPORT

Results

Date 23/07/2018

Hour 09:36:55

Temperature [°C] 23.71

Number of Measurements 9

Main Coil Current [A] (167.7993 ± 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] (-359.211 ± 0.007)

Magnet Center Offset X [μm] - (< ±40.0) (13.2 ± 0.1)

Magnet Center Offset Y [μm] - (< ±40.0) (24.8 ± 0.1)

Roll [mrad] - (< ±0.3) (2 ± 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) (-7.80 ± 0.09) × E-4 (7.8 ± 0.2) × E-4

2 (quadrupole) (-2.20 ± 0.02) × E-3 (-4.14 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00003) (7 ± 4) × E-5

4 (4.8 ± 0.3) × E-4 (-5 ± 3) × E-5

5 (2.8 ± 0.2) × E-4 (-3.7 ± 0.2) × E-4

6 (-2 ± 2) × E-5 (-2 ± 5) × E-5

7 (1.2 ± 0.1) × E-4 (7 ± 2) × E-5

8 (-6.5 ± 30.6) × E-6 (-3 ± 2) × E-5

9 (-2.01 ± 0.03) × E-3 (4.5 ± 0.2) × E-4

10 (1 ± 2) × E-5 (-6 ± 2) × E-5

11 (-1 ± 3) × E-5 (4 ± 3) × E-5

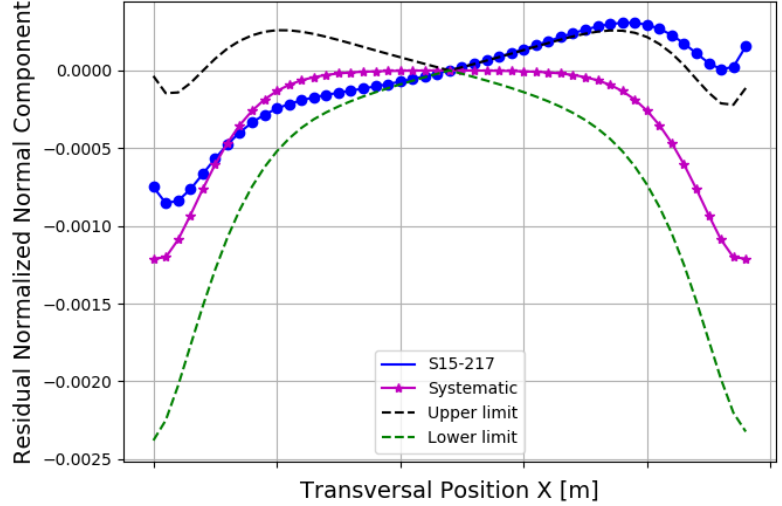
12 (-3.48 ± 251.02) × E-7 (-2.6 ± 21.6) × E-6

13 (-4 ± 2) × E-5 (1 ± 2) × E-5

14 (-1 ± 2) × E-5 (-1 ± 2) × E-5

15 (1.36 ± 0.03) × E-3 (1.5 ± 0.2) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

