



S15-206

STORAGE RING MAGNET REPORT

Results

Date 25/07/2018

Hour 12:42:32

Temperature [°C] 23.701

Number of Measurements 9

Main Coil Current [A] (167.797 ± 0.001)

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] (-359.737 ± 0.008)

Magnet Center Offset X [μm] - (< ±40.0) (18.73 ± 0.08)

Magnet Center Offset Y [μm] - (< ±40.0) (27.4 ± 0.2)

Roll [mrad] - (< ±0.3) (5 ± 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) (2.75 ± 0.05) × E-4 (-2.2 ± 0.3) × E-4

2 (quadrupole) (-3.12 ± 0.01) × E-3 (-4.57 ± 0.03) × E-3

3 (sextupole) (1.00000 ± 0.00003) (1.4 ± 0.3) × E-4

4 (1.5 ± 0.2) × E-4 (4 ± 4) × E-5

5 (3 ± 2) × E-5 (-8 ± 2) × E-5

6 (1.3 ± 0.3) × E-4 (-2 ± 6) × E-5

7 (3 ± 2) × E-5 (-3 ± 3) × E-5

8 (1.6 ± 24.4) × E-6 (-1 ± 3) × E-5

9 (-1.91 ± 0.02) × E-3 (6.8 ± 0.2) × E-4

10 (2 ± 3) × E-5 (-7 ± 2) × E-5

11 (-7.8 ± 20.8) × E-6 (-2 ± 3) × E-5

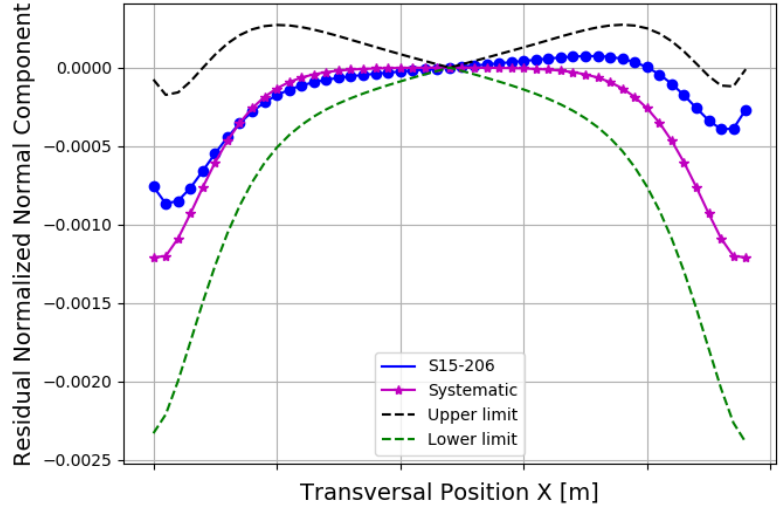
12 (-3 ± 3) × E-5 (2 ± 3) × E-5

13 (-3 ± 3) × E-5 (2 ± 3) × E-5

14 (-4 ± 3) × E-5 (-4 ± 2) × E-5

15 (1.38 ± 0.04) × E-3 (-4 ± 4) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

