



S15-195

STORAGE RING MAGNET REPORT

Results

Date 01/08/2018

Hour 14:33:54

Temperature [°C] 23.65

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] (-359.818 ± 0.006)

Magnet Center Offset X [μm] - (< ±40.0) (-1.51 ± 0.08)

Magnet Center Offset Y [μm] - (< ±40.0) (35.1 ± 0.1)

Roll [mrad] - (< ±0.3) (4 ± 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) (-8.60 ± 0.07) × E-4 (-1.5 ± 0.2) × E-4

2 (quadrupole) (2.5 ± 0.1) × E-4 (-5.86 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00002) (1.2 ± 0.3) × E-4

4 (3.1 ± 0.2) × E-4 (-4 ± 3) × E-5

5 (2.8 ± 0.3) × E-4 (1.8 ± 0.3) × E-4

6 (-5 ± 3) × E-5 (-3.5 ± 28.1) × E-6

7 (1.5 ± 0.3) × E-4 (-9 ± 3) × E-5

8 (-2 ± 2) × E-5 (4 ± 2) × E-5

9 (-1.96 ± 0.04) × E-3 (6.0 ± 0.2) × E-4

10 (5 ± 2) × E-5 (-1 ± 5) × E-5

11 (4.8 ± 18.5) × E-6 (1.5 ± 26.9) × E-6

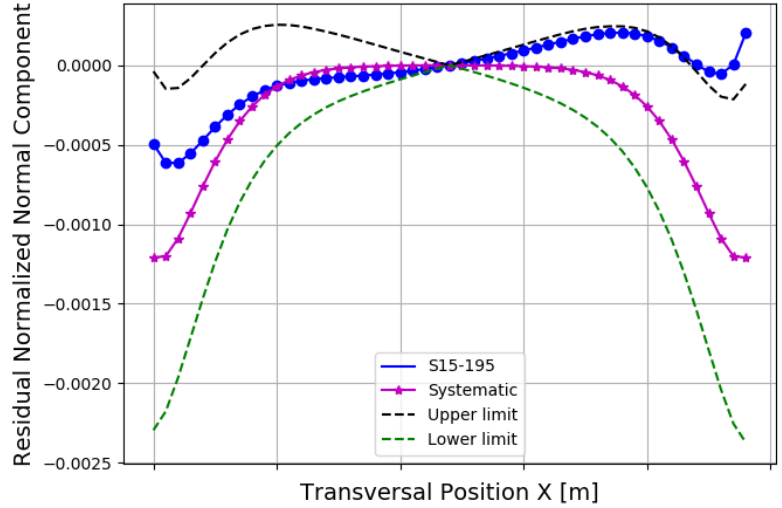
12 (3 ± 4) × E-5 (2 ± 3) × E-5

13 (-3 ± 3) × E-5 (3 ± 3) × E-5

14 (5 ± 4) × E-5 (-5 ± 2) × E-5

15 (1.40 ± 0.04) × E-3 (-2 ± 4) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

