



S15-283

STORAGE RING MAGNET REPORT

Results

Date 28/08/2018

Hour 10:37:01

Temperature [°C] 23.459

Number of Measurements 9

Main Coil Current [A] (167.7985 ± 0.0009)

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] (-359.933 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (6.13 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (23.31 ± 0.06)

Roll [mrad] - (< ±0.3) (-2.4 ± 0.4) × 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) (-7.70 ± 0.07) × E-4 (7 ± 1) × E-5

2 (quadrupole) (-1.022 ± 0.003) × E-3 (-3.885 ± 0.010) × E-3

3 (sextupole) (1.000000 ± 0.000010) (-7 ± 1) × E-5

4 (2.55 ± 0.04) × E-4 (6.1 ± 0.7) × E-5

5 (1.08 ± 0.04) × E-4 (-2 ± 1) × E-5

6 (-3 ± 2) × E-6 (-6 ± 7) × E-6

7 (9.9 ± 0.7) × E-5 (-1.8 ± 0.9) × E-5

8 (-6 ± 4) × E-6 (2.8 ± 1.0) × E-5

9 (-1.837 ± 0.009) × E-3 (3.45 ± 0.10) × E-4

10 (-1.1 ± 0.6) × E-5 (-2 ± 2) × E-5

11 (-2.0 ± 0.9) × E-5 (1 ± 1) × E-5

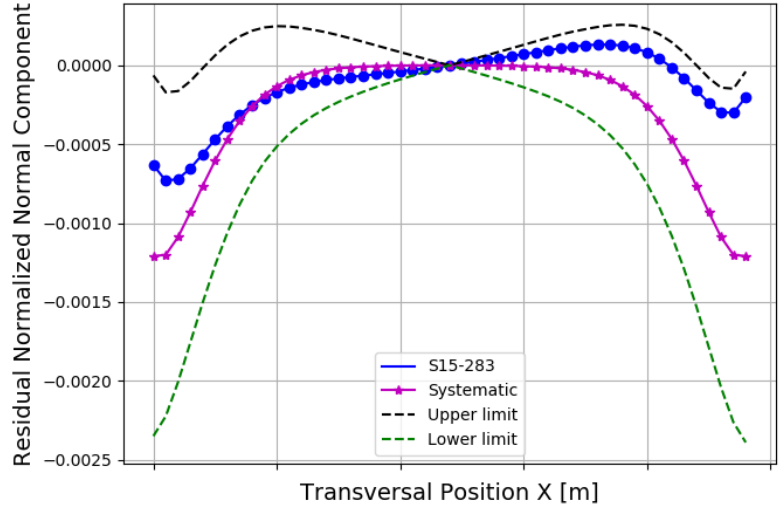
12 (-2 ± 1) × E-5 (8 ± 10) × E-6

13 (-4.7 ± 0.7) × E-5 (2 ± 1) × E-5

14 (-5 ± 5) × E-6 (-2.8 ± 0.9) × E-5

15 (1.28 ± 0.01) × E-3 (-1.18 ± 0.09) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

