



S15-276

STORAGE RING MAGNET REPORT

Results

Date 24/07/2018

Hour 10:51:45

Temperature [°C] 23.58

Number of Measurements 9

Main Coil Current [A] (167.7993 ± 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] (-360.392 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (5.96 ± 0.06)

Magnet Center Offset Y [μm] - (< ±40.0) (17.9 ± 0.1)

Roll [mrad] - (< ±0.3) (8.2 ± 0.9) × 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) (6.72 ± 0.08) × E-4 (2.0 ± 0.2) × E-4

2 (quadrupole) (-9.9 ± 0.1) × E-4 (-2.99 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00002) (2.5 ± 0.3) × E-4

4 (3.7 ± 0.1) × E-4 (-1.4 ± 0.1) × E-4

5 (5.1 ± 0.1) × E-4 (3 ± 1) × E-5

6 (-9.4 ± 1.0) × E-5 (-1.4 ± 26.8) × E-6

7 (8 ± 1) × E-5 (-3 ± 2) × E-5

8 (4 ± 3) × E-5 (6 ± 3) × E-5

9 (-2.01 ± 0.02) × E-3 (4.2 ± 0.3) × E-4

10 (3 ± 2) × E-5 (2 ± 2) × E-5

11 (-4 ± 2) × E-5 (-3 ± 3) × E-5

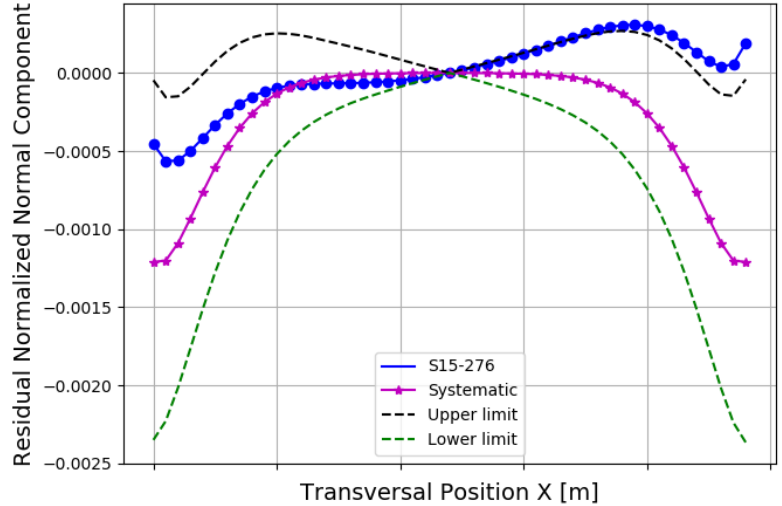
12 (-7.0 ± 17.4) × E-6 (-9.46 ± 164.56) × E-7

13 (-4.9 ± 16.9) × E-6 (4 ± 2) × E-5

14 (-2 ± 3) × E-5 (-3 ± 2) × E-5

15 (1.33 ± 0.02) × E-3 (5 ± 3) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

