



S15-074

STORAGE RING MAGNET REPORT

Results

Date 09/08/2018

Hour 16:44:24

Temperature [°C] 23.374

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.002)

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] (-359.455 ± 0.007)

Magnet Center Offset X [μm] - (< ±40.0) (22.72 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (26.80 ± 0.03)

Roll [mrad] - (< ±0.3) (1.04 ± 0.02) x E-1

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) (-7.25 ± 0.04) x E-4 (4.26 ± 0.07) x E-4

2 (quadrupole) (-3.787 ± 0.004) x E-3 (-4.466 ± 0.005) x E-3

3 (sextupole) (1.00000 ± 0.00003) (3.13 ± 0.06) x E-4

4 (2.03 ± 0.03) x E-4 (1.40 ± 0.05) x E-4

5 (-1.49 ± 0.02) x E-4 (-3 ± 5) x E-6

6 (-3.8 ± 0.8) x E-5 (8 ± 7) x E-6

7 (1 ± 7) x E-6 (-5.3 ± 0.9) x E-5

8 (3.5 ± 0.4) x E-5 (2.9 ± 0.8) x E-5

9 (-1.939 ± 0.006) x E-3 (5.8 ± 0.9) x E-5

10 (2 ± 6) x E-6 (-3 ± 4) x E-6

11 (1.6 ± 0.5) x E-5 (-6 ± 6) x E-6

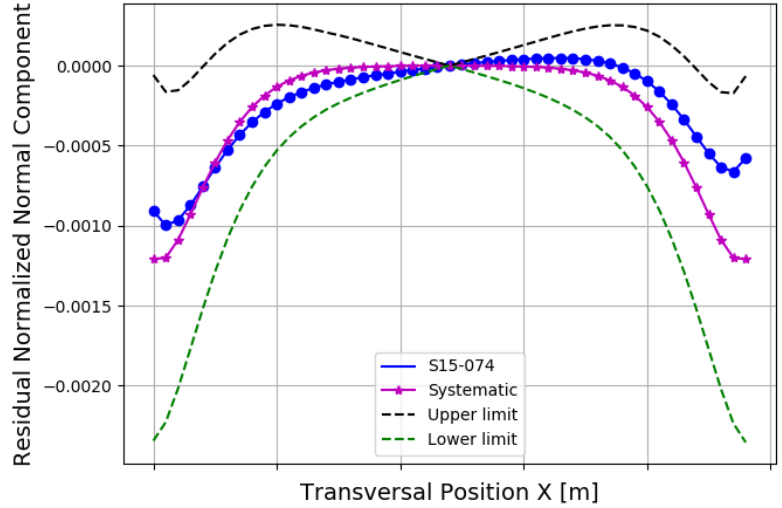
12 (-3 ± 6) x E-6 (4 ± 6) x E-6

13 (-6 ± 5) x E-6 (2.3 ± 0.6) x E-5

14 (-3.4 ± 0.6) x E-5 (-4.4 ± 0.8) x E-5

15 (1.333 ± 0.006) x E-3 (-9 ± 6) x E-6

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

