



S15-275

STORAGE RING MAGNET REPORT

Results

Date 23/07/2018

Hour 16:03:39

Temperature [°C] 23.605

Number of Measurements 9

Main Coil Current [A] (167.801 ± 0.008)

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] (-359.231 ± 0.006)

Magnet Center Offset X [μm] - (< ±40.0) (13.93 ± 0.08)

Magnet Center Offset Y [μm] - (< ±40.0) (22.1 ± 0.1)

Roll [mrad] - (< ±0.3) (1.2 ± 0.1) × 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) (-1.509 ± 0.004) × E-3 (-4.8 ± 0.2) × E-4

2 (quadrupole) (-2.32 ± 0.01) × E-3 (-3.69 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00002) (3.6 ± 0.3) × E-4

4 (3.0 ± 0.2) × E-4 (9 ± 3) × E-5

5 (4 ± 2) × E-5 (1.5 ± 0.3) × E-4

6 (1.5 ± 0.3) × E-4 (-6.5 ± 30.7) × E-6

7 (1.0 ± 0.2) × E-4 (-3 ± 3) × E-5

8 (2.2 ± 27.6) × E-6 (4 ± 5) × E-5

9 (-1.95 ± 0.03) × E-3 (5.4 ± 0.3) × E-4

10 (-5.1 ± 32.8) × E-6 (-2 ± 2) × E-5

11 (-9.878 ± 1460.612) × E-8 (-2 ± 4) × E-5

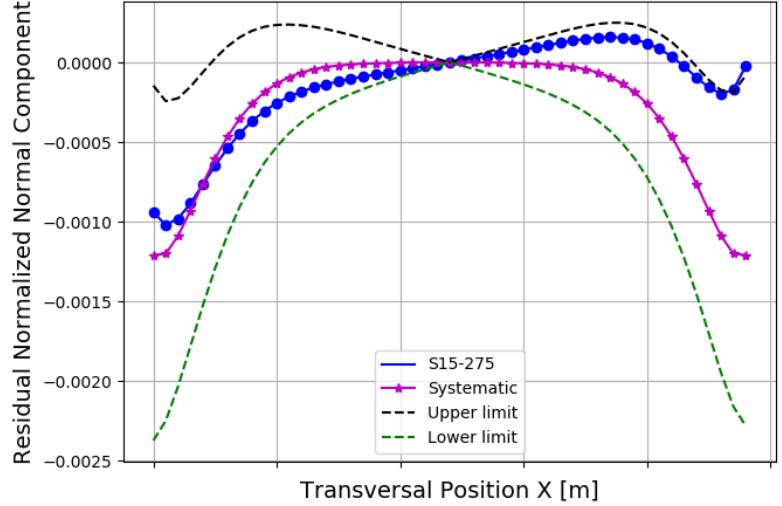
12 (-1 ± 3) × E-5 (-3 ± 2) × E-5

13 (-6 ± 3) × E-5 (-6.1 ± 26.0) × E-6

14 (3 ± 3) × E-5 (-3 ± 2) × E-5

15 (1.39 ± 0.04) × E-3 (5 ± 4) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

