



S15-272

STORAGE RING MAGNET REPORT

Results

Date 18/07/2018

Hour 16:57:54

Temperature [°C] 23.481

Number of Measurements 9

Main Coil Current [A] (167.7960 ± 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] (-359.350 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (11.52 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (27.5 ± 0.2)

Roll [mrad] - (< ±0.3) (1.2 ± 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) (-9.24 ± 0.06) × E-4 (-4.7 ± 0.3) × E-4

2 (quadrupole) (-1.920 ± 0.007) × E-3 (-4.59 ± 0.03) × E-3

3 (sextupole) (1.00000 ± 0.00001) (4 ± 3) × E-5

4 (3.0 ± 0.2) × E-4 (3.2 ± 0.3) × E-4

5 (2.5 ± 0.1) × E-4 (3.1 ± 0.3) × E-4

6 (-8.7 ± 23.5) × E-6 (-1 ± 3) × E-5

7 (1.4 ± 0.3) × E-4 (-1.1 ± 0.2) × E-4

8 (4 ± 3) × E-5 (2 ± 3) × E-5

9 (-2.04 ± 0.02) × E-3 (4.9 ± 0.3) × E-4

10 (-3 ± 3) × E-5 (1 ± 4) × E-5

11 (-2 ± 2) × E-5 (-6.7 ± 29.1) × E-6

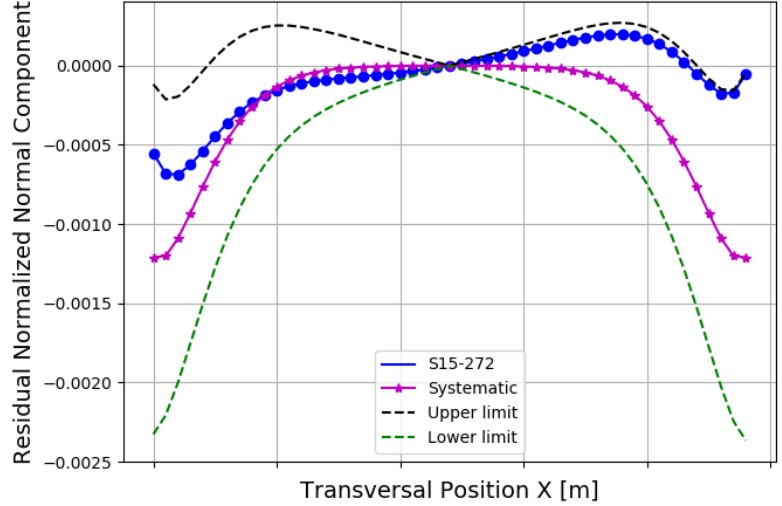
12 (-3 ± 3) × E-5 (-3.5 ± 19.1) × E-6

13 (-2 ± 1) × E-5 (2 ± 3) × E-5

14 (-2 ± 3) × E-5 (-5 ± 2) × E-5

15 (1.38 ± 0.02) × E-3 (-2 ± 3) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

