



S15-177

STORAGE RING MAGNET REPORT

Results

Date 04/09/2018

Hour 14:46:29

Temperature [°C] 23.549

Number of Measurements 9

Main Coil Current [A] (167.799 ± 0.003)

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] (-360.225 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (19.97 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (27.62 ± 0.06)

Roll [mrad] - (< ±0.3) (2.6 ± 0.3) × E-2

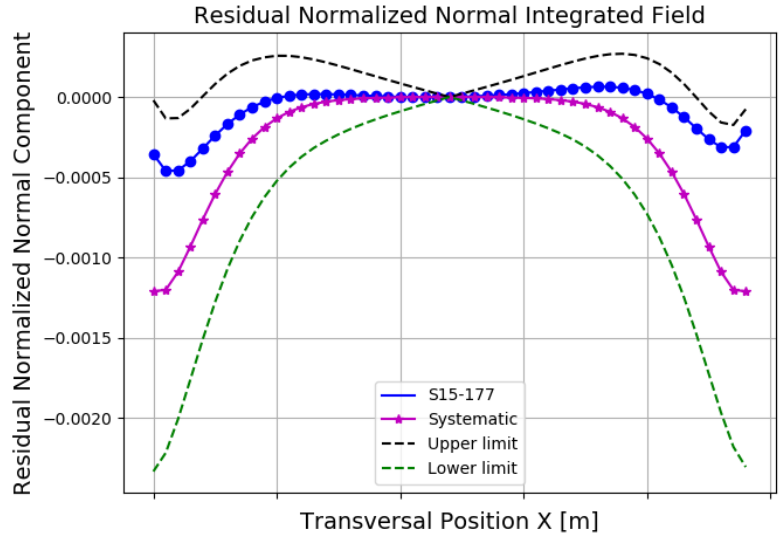
Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



Normalized Normal Multipoles $x=12.0$ mm [T.m⁽²⁻ⁿ⁾]

Normalized Skew Multipoles $x=12.0$ mm [T.m⁽²⁻ⁿ⁾]

1 (dipole) (-6.87 ± 0.06) × E-4 (6.95 ± 0.10) × E-4

2 (quadrupole) (-3.328 ± 0.003) × E-3 (-4.604 ± 0.010) × E-3

3 (sextupole) (1.000000 ± 0.000010) (7.9 ± 0.9) × E-5

4 (3.2 ± 0.5) × E-5 (-3.9 ± 0.9) × E-5

5 (2.46 ± 0.08) × E-4 (-2.8 ± 0.1) × E-4

6 (6.1 ± 0.6) × E-5 (-6 ± 9) × E-6

7 (1.14 ± 0.04) × E-4 (6.3 ± 0.9) × E-5

8 (1.7 ± 0.8) × E-5 (4.4 ± 0.7) × E-5

9 (-1.849 ± 0.005) × E-3 (3.92 ± 0.08) × E-4

10 (-5 ± 8) × E-6 (-7.9 ± 11.1) × E-6

11 (1 ± 1) × E-5 (1.9 ± 0.6) × E-5

12 (-1.2 ± 0.8) × E-5 (4.3 ± 10.9) × E-6

13 (-3 ± 1) × E-5 (2 ± 7) × E-6

14 (-1.9 ± 1.0) × E-5 (-4.1 ± 0.7) × E-5

15 (1.221 ± 0.007) × E-3 (-1.41 ± 0.07) × E-4

