



S15-188

STORAGE RING MAGNET REPORT

Results

Date 30/08/2018

Hour 16:34:26

Temperature [°C] 23.113

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.001)

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] (-360.156 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (18.13 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (29.5 ± 0.1)

Roll [mrad] - (< ±0.3) (-2.6 ± 0.7) × E-2

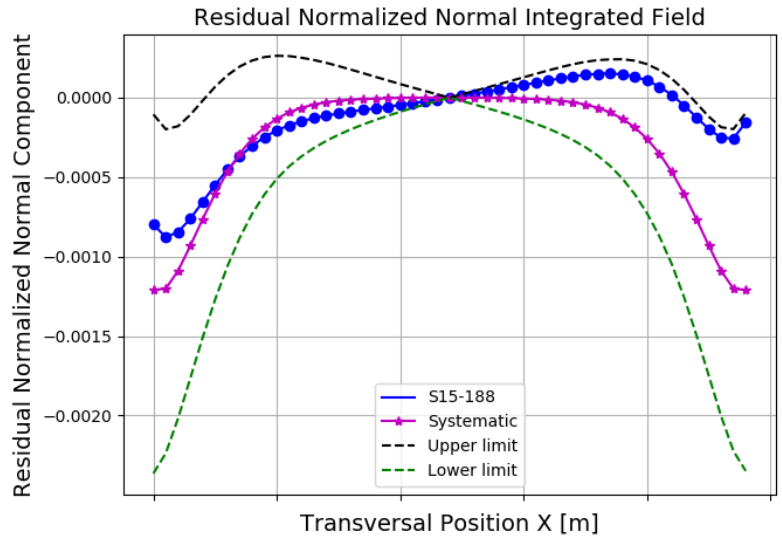
Electric Parameters

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) (-3.79 ± 0.04) × E-4 (-7.0 ± 22.7) × E-6

2 (quadrupole) (-3.022 ± 0.004) × E-3 (-4.92 ± 0.02) × E-3

3 (sextupole) (1.000000 ± 0.000009) (-8 ± 2) × E-5

4 (2.91 ± 0.03) × E-4 (1.7 ± 0.2) × E-4

5 (1.09 ± 0.06) × E-4 (-1.0 ± 0.2) × E-4

6 (2.2 ± 0.3) × E-5 (-1.4 ± 17.1) × E-6

7 (3.7 ± 0.4) × E-5 (2 ± 2) × E-5

8 (3.5 ± 0.7) × E-5 (3 ± 1) × E-5

9 (-1.850 ± 0.007) × E-3 (3.0 ± 0.1) × E-4

10 (-2 ± 5) × E-6 (5.2 ± 17.2) × E-6

11 (-5 ± 6) × E-6 (-1.3 ± 0.9) × E-5

12 (1.1 ± 0.5) × E-5 (-6.8 ± 12.0) × E-6

13 (-6 ± 9) × E-6 (2 ± 1) × E-5

14 (-3.5 ± 0.9) × E-5 (-2.9 ± 1.0) × E-5

15 (1.237 ± 0.009) × E-3 (-1.0 ± 0.1) × E-4

