



S15-063

STORAGE RING MAGNET REPORT

Results

Date 28/06/2018

Hour 15:12:34

Temperature [°C] 24.043

Number of Measurements 9

Main Coil Current [A] (167.7969 ± 0.0008)

Integrated Gradient [T/m] (-359.404 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (19.59 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (32.27 ± 0.02)

Roll [mrad] - (< ±0.3) (7.5 ± 0.3) × E-2

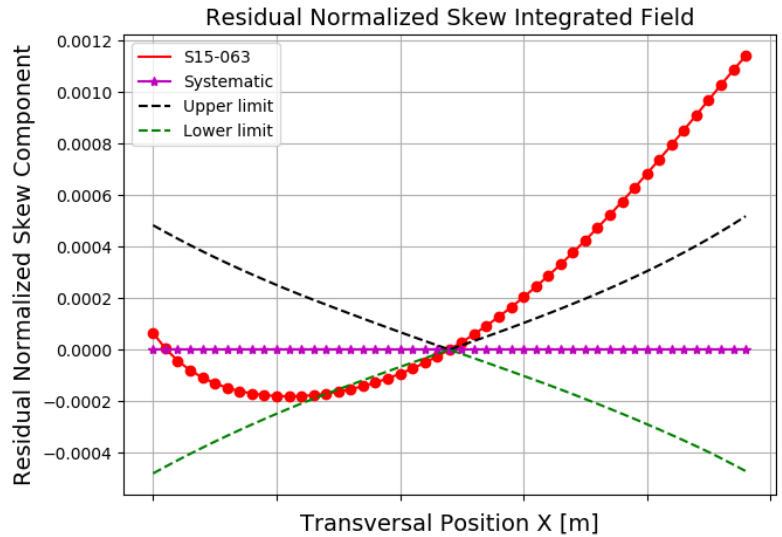
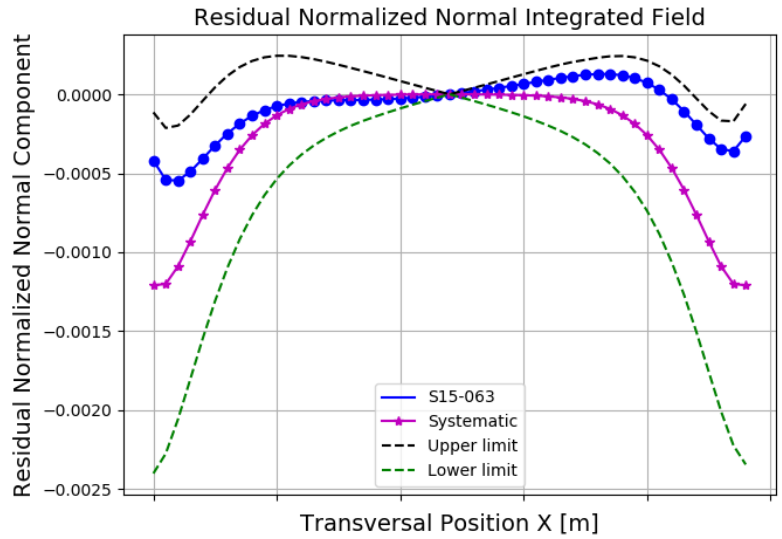
Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



| 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) | (-2.16 ± 0.06) × E-4 | (-1.333 ± 0.003) × E-3 |
| 2 (quadrupole) | (-3.265 ± 0.009) × E-3 | (-5.378 ± 0.003) × E-3 |
| 3 (sextupole) | (1.000000 ± 0.000006) | (2.26 ± 0.10) × E-4 |
| 4 | (2.06 ± 0.05) × E-4 | (6.66 ± 0.06) × E-4 |
| 5 | (2.63 ± 0.06) × E-4 | (6.1 ± 0.1) × E-4 |
| 6 | (-1.21 ± 0.10) × E-4 | (-4 ± 1) × E-5 |
| 7 | (9.3 ± 0.6) × E-5 | (-1.2 ± 0.1) × E-4 |
| 8 | (3 ± 1) × E-5 | (-1.8 ± 0.9) × E-5 |
| 9 | (-2.01 ± 0.01) × E-3 | (1.18 ± 0.06) × E-4 |
| 10 | (7.39 ± 739.09) × E-8 | (-3 ± 1) × E-5 |
| 11 | (-1.4 ± 0.6) × E-5 | (-2.4 ± 0.9) × E-5 |
| 12 | (2.1 ± 95.7) × E-7 | (-2 ± 9) × E-6 |
| 13 | (-2 ± 1) × E-5 | (2 ± 1) × E-5 |
| 14 | (-3 ± 1) × E-5 | (-3.9 ± 0.7) × E-5 |
| 15 | (1.341 ± 0.008) × E-3 | (6 ± 10) × E-6 |