



S15-161

STORAGE RING MAGNET REPORT

Results

Date 04/07/2018

Hour 09:27:36

Temperature [°C] 23.649

Number of Measurements 9

Main Coil Current [A] (167.797 ± 0.005)

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] (-359.646 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (13.84 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (27.94 ± 0.04)

Roll [mrad] - (< ±0.3) (6 ± 4) × E-3

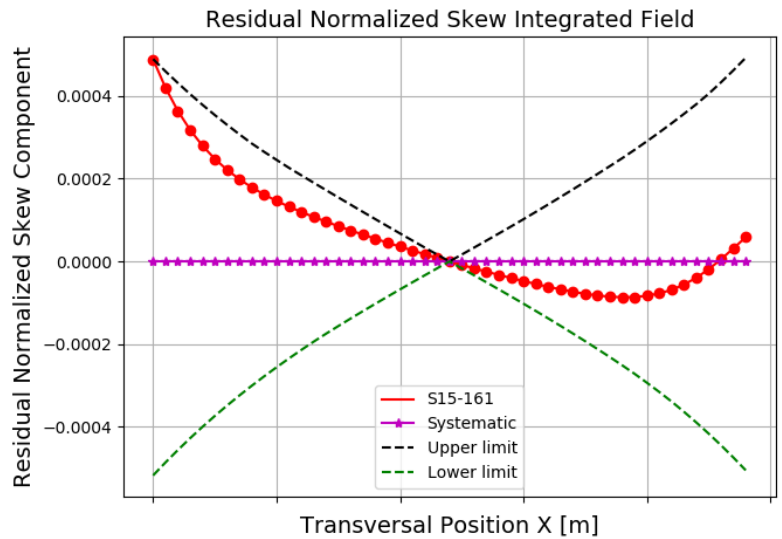
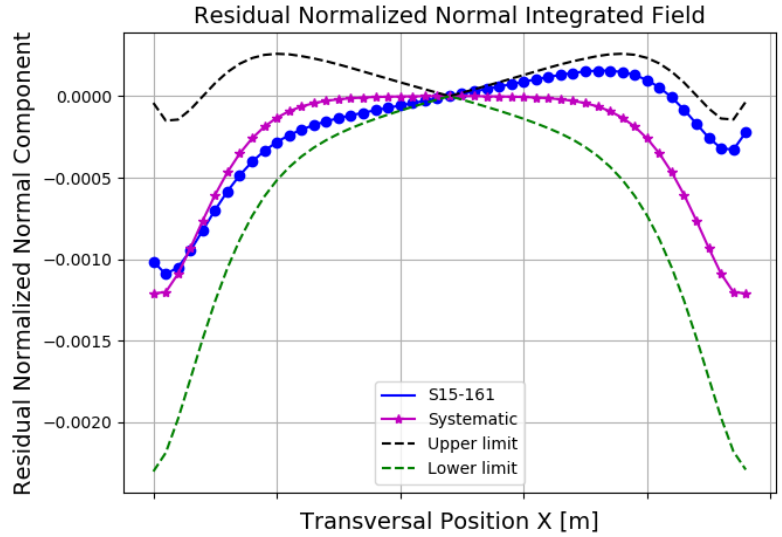
Electric Parameters

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)	(-3.18 ± 0.04) × E-4	(-8.70 ± 0.07) × E-4
2 (quadrupole)	(-2.306 ± 0.004) × E-3	(-4.657 ± 0.006) × E-3
3 (sextupole)	(1.000000 ± 0.000009)	(2 ± 1) × E-5
4	(3.46 ± 0.10) × E-4	(-2.05 ± 0.09) × E-4
5	(2 ± 1) × E-5	(5.7 ± 0.8) × E-5
6	(6 ± 1) × E-5	(7.55 ± 147.10) × E-7
7	(4 ± 1) × E-5	(8.8 ± 15.8) × E-6
8	(2 ± 1) × E-5	(4 ± 1) × E-5
9	(-2.03 ± 0.01) × E-3	(2.4 ± 0.1) × E-4
10	(3.3 ± 11.9) × E-6	(1 ± 2) × E-5
11	(9.9 ± 18.6) × E-6	(-7.0 ± 12.1) × E-6
12	(-8.8 ± 24.7) × E-6	(-2 ± 2) × E-5
13	(-1 ± 1) × E-5	(9.2 ± 23.1) × E-6
14	(-3 ± 2) × E-5	(-5 ± 1) × E-5
15	(1.359 ± 0.008) × E-3	(-3 ± 2) × E-5