



S15-235

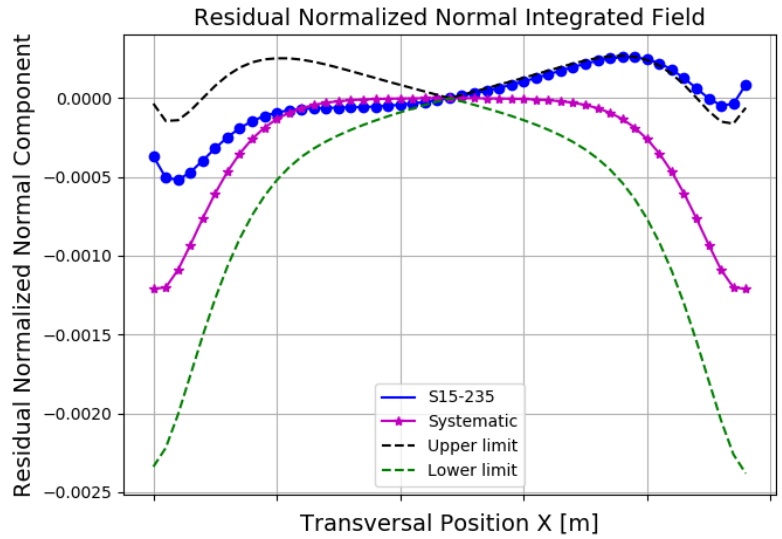
STORAGE RING MAGNET REPORT

Results

Date	17/07/2018
Hour	11:07:37
Temperature [°C]	23.566
Number of Measurements	9
Main Coil Current [A]	(167.7964 ± 0.0006)
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]	(-359.772 ± 0.004)
Magnet Center Offset X [μm] - (< ±40.0)	(12.68 ± 0.05)
Magnet Center Offset Y [μm] - (< ±40.0)	(26.9 ± 0.1)
Roll [mrad] - (< ±0.3)	(1.39 ± 0.05) x E-1

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)	(-3.57 ± 0.06) x E-4	(-2.0 ± 0.1) x E-4
2 (quadrupole)	(-2.114 ± 0.008) x E-3	(-4.49 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(4.2 ± 0.1) x E-4
4	(3.2 ± 0.1) x E-4	(8 ± 1) x E-5
5	(4.23 ± 0.08) x E-4	(1.6 ± 11.3) x E-6
6	(-7 ± 2) x E-5	(-4.8 ± 10.1) x E-6
7	(1.7 ± 0.2) x E-4	(-4 ± 1) x E-5
8	(3 ± 2) x E-5	(2 ± 2) x E-5
9	(-2.05 ± 0.02) x E-3	(3.6 ± 0.1) x E-4
10	(-3 ± 1) x E-5	(-3.4 ± 12.3) x E-6
11	(-1 ± 1) x E-5	(1 ± 1) x E-5
12	(1 ± 2) x E-5	(7.6 ± 20.0) x E-6
13	(-4 ± 2) x E-5	(1 ± 1) x E-5
14	(-4 ± 2) x E-5	(-6 ± 1) x E-5
15	(1.37 ± 0.02) x E-3	(-7.9 ± 13.1) x E-6

