



S15-234

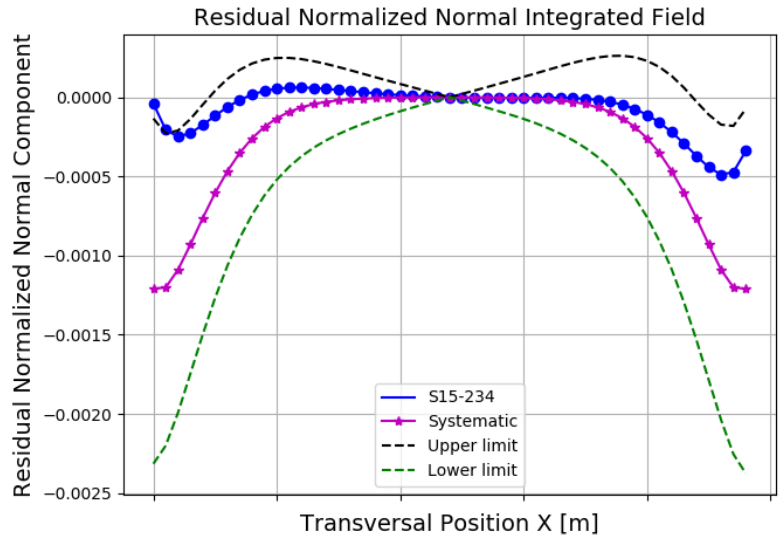
STORAGE RING MAGNET REPORT

Results

Date	24/07/2018
Hour	15:17:12
Temperature [°C]	23.584
Number of Measurements	9
Main Coil Current [A]	(167.7980 ± 0.0008)
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]	(-359.49 ± 0.01)
Magnet Center Offset X [μm] - (< ±40.0)	(16.3 ± 0.1)
Magnet Center Offset Y [μm] - (< ±40.0)	(25.0 ± 0.4)
Roll [mrad] - (< ±0.3)	(5.8 ± 27.7) × 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)	(-7.8 ± 0.1) × E-4	(-4.0 ± 0.6) × E-4
2 (quadrupole)	(-2.72 ± 0.02) × E-3	(-4.17 ± 0.06) × E-3
3 (sextupole)	(1.00000 ± 0.00004)	(2 ± 8) × E-5
4	(-5 ± 5) × E-5	(-2.5 ± 0.6) × E-4
5	(1.7 ± 0.4) × E-4	(8 ± 4) × E-5
6	(-1.2 ± 0.3) × E-4	(-5.3 ± 46.3) × E-6
7	(1.1 ± 0.4) × E-4	(-1 ± 4) × E-5
8	(4 ± 3) × E-5	(1.1 ± 0.3) × E-4
9	(-1.78 ± 0.07) × E-3	(8.1 ± 0.9) × E-4
10	(3.8 ± 57.5) × E-6	(1 ± 4) × E-5
11	(3 ± 3) × E-5	(-1 ± 6) × E-5
12	(-1 ± 3) × E-5	(-4.5 ± 61.3) × E-6
13	(-1 ± 4) × E-5	(4.13 ± 636.50) × E-7
14	(-2 ± 4) × E-5	(-9 ± 5) × E-5
15	(1.29 ± 0.06) × E-3	(-4 ± 7) × E-5

