



S15-034

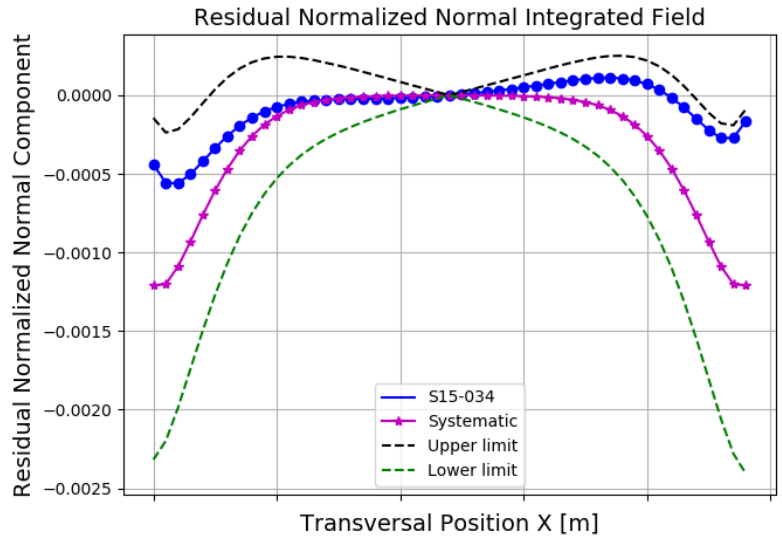
STORAGE RING MAGNET REPORT

Results

Date	30/08/2018
Hour	12:44:50
Temperature [°C]	23.39
Number of Measurements	9
Main Coil Current [A]	(167.7973 ± 0.0004)
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]	(-359.134 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(20.04 ± 0.01)
Magnet Center Offset Y [μm] - (< ±40.0)	(26.97 ± 0.08)
Roll [mrad] - (< ±0.3)	(-1.62 ± 0.04) 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⁾]
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1 (dipole)	(-4.56 ± 0.06) x E-4	(-6 ± 1) x E-5
2 (quadrupole)	(-3.340 ± 0.002) x E-3	(-4.50 ± 0.01) x E-3
3 (sextupole)	(1.000000 ± 0.000009)	(-4.9 ± 0.1) x E-4
4	(1.42 ± 0.06) x E-4	(-1.22 ± 121.13) x E-7
5	(2.33 ± 0.04) x E-4	(-3 ± 1) x E-5
6	(3.3 ± 0.5) x E-5	(-2 ± 2) x E-5
7	(8.2 ± 0.4) x E-5	(2.6 ± 1.0) x E-5
8	(1.6 ± 0.9) x E-5	(4.8 ± 0.7) x E-5
9	(-1.874 ± 0.006) x E-3	(2.94 ± 0.10) x E-4
10	(2.8 ± 13.2) x E-6	(-1.8 ± 0.9) x E-5
11	(2.0 ± 12.2) x E-6	(-3 ± 1) x E-5
12	(-2.7 ± 1.0) x E-5	(1 ± 1) x E-5
13	(-1 ± 1) x E-5	(4 ± 5) x E-6
14	(-2.9 ± 0.9) x E-5	(-3.0 ± 0.7) x E-5
15	(1.267 ± 0.009) x E-3	(-1.1 ± 0.1) x E-4

