



S15-040

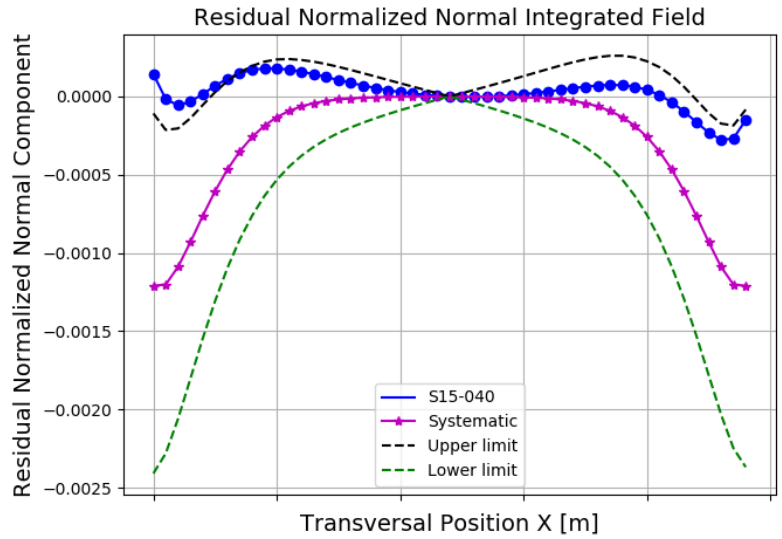
STORAGE RING MAGNET REPORT

Results

Date	10/08/2018
Hour	16:56:39
Temperature [°C]	23.439
Number of Measurements	9
Main Coil Current [A]	(167.7973 ± 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]	(-360.743 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(30.97 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(14.56 ± 0.03)
Roll [mrad] - (< ±0.3)	(1.80 ± 0.02) 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)	(-7.60 ± 0.04) x E-4	(4.32 ± 0.06) x E-4
2 (quadrupole)	(-5.162 ± 0.005) x E-3	(-2.427 ± 0.005) x E-3
3 (sextupole)	(1.000000 ± 0.000010)	(5.39 ± 0.07) x E-4
4	(-7.6 ± 0.5) x E-5	(-5.32 ± 0.06) x E-4
5	(5.41 ± 0.03) x E-4	(-2.55 ± 0.07) x E-4
6	(-5.4 ± 0.4) x E-5	(-7 ± 6) x E-6
7	(1.57 ± 0.07) x E-4	(5.0 ± 0.7) x E-5
8	(2.5 ± 0.3) x E-5	(5.7 ± 0.5) x E-5
9	(-1.994 ± 0.004) x E-3	(8.0 ± 0.9) x E-5
10	(5 ± 5) x E-6	(5 ± 5) x E-6
11	(-1.5 ± 0.5) x E-5	(5.7 ± 45.3) x E-7
12	(-8.9 ± 70.6) x E-7	(6 ± 5) x E-6
13	(-2.9 ± 0.6) x E-5	(1.3 ± 0.4) x E-5
14	(-4.5 ± 0.6) x E-5	(-3.9 ± 0.3) x E-5
15	(1.336 ± 0.004) x E-3	(-2 ± 5) x E-6

