



S15-030

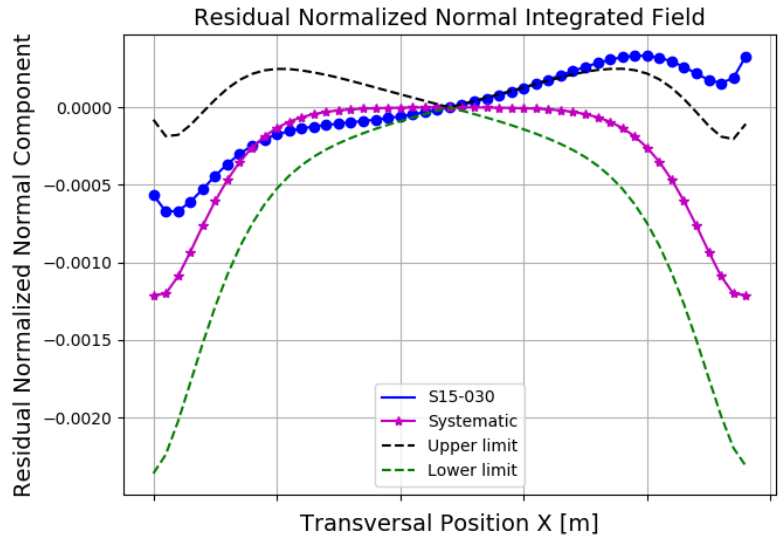
STORAGE RING MAGNET REPORT

Results

Date	30/08/2018
Hour	12:06:00
Temperature [°C]	23.392
Number of Measurements	9
Main Coil Current [A]	(167.7969 ± 0.0009)
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]	(-360.042 ± 0.001)
Magnet Center Offset X [μm] - (< ±40.0)	(18.47 ± 0.01)
Magnet Center Offset Y [μm] - (< ±40.0)	(28.8 ± 0.1)
Roll [mrad] - (< ±0.3)	(-1.90 ± 0.06) 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)	(-4.50 ± 0.08) x E-4	(-2.0 ± 0.2) x E-4
2 (quadrupole)	(-3.079 ± 0.002) x E-3	(-4.80 ± 0.02) x E-3
3 (sextupole)	(1.000000 ± 0.000006)	(-5.7 ± 0.2) x E-4
4	(4.07 ± 0.04) x E-4	(2.8 ± 0.2) x E-4
5	(3.82 ± 0.04) x E-4	(3.0 ± 0.1) x E-4
6	(5.6 ± 0.6) x E-5	(-2 ± 1) x E-5
7	(1.37 ± 0.06) x E-4	(-9 ± 2) x E-5
8	(2.1 ± 0.5) x E-5	(9.8 ± 12.6) x E-6
9	(-1.859 ± 0.005) x E-3	(3.6 ± 0.1) x E-4
10	(-2 ± 1) x E-5	(-2 ± 1) x E-5
11	(1 ± 1) x E-5	(-2 ± 2) x E-5
12	(9.6 ± 11.0) x E-6	(-3 ± 9) x E-6
13	(-3.3 ± 0.9) x E-5	(-9.0 ± 14.3) x E-6
14	(-2 ± 1) x E-5	(-3 ± 1) x E-5
15	(1.24 ± 0.01) x E-3	(-1.6 ± 0.1) x E-4

