



Q30-003

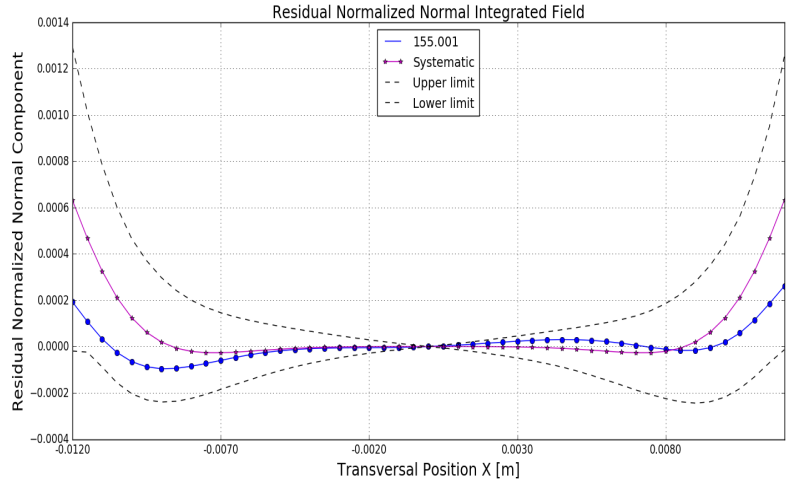
STORAGE RING MAGNET REPORT

Results

Date	23/05/2017
Hour	12:32:28
Temperature [°C]	24.0
Number of Measurements	17
Main Coil Current [A]	(155.0010 ± 0.0009)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(13.7248 ± 0.0004)
Magnet Center Offset X [μm] - (< ±30.0)	(-2.3 ± 0.6)
Magnet Center Offset Y [μm] - (< ±30.0)	(4.4 ± 0.6)
Roll [mrad] - (< ±0.2)	(-1.31 ± 0.07) x E-1

Electric Parameters

Inductance [mH]	9.24
Voltage [V]	4.83
Main Coil Maximum Current [A]	155.001
Main Coil Number of Turns	23.5



n	Normalized Normal Multipoles x=0.0 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=0.0 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-1.9 ± 0.5) x E-4	(3.7 ± 0.5) x E-4
2 (quadrupole)	(1.00000 ± 0.00003)	(-2.6 ± 0.1) x E-4
3 (sextupole)	(6 ± 3) x E-5	(-2.6 ± 0.3) x E-4
4	(2.0 ± 0.2) x E-4	(3 ± 2) x E-5
5	(-3.0 ± 18.8) x E-6	(10 ± 3) x E-5
6	(-1.01 ± 0.02) x E-3	(8 ± 2) x E-5
7	(-3.2 ± 15.8) x E-6	(6.0 ± 21.7) x E-6
8	(-1.6 ± 0.9) x E-5	(-3 ± 2) x E-5
9	(-9.9 ± 11.0) x E-6	(-2.1 ± 23.8) x E-6
10	(1.749 ± 0.009) x E-3	(-4 ± 2) x E-5
11	(-2 ± 10) x E-6	(-2.6 ± 17.8) x E-6
12	(8.5 ± 11.2) x E-6	(-2.8 ± 13.4) x E-6
13	(5.4 ± 12.7) x E-6	(-8.5 ± 24.3) x E-6
14	(-7.1 ± 0.1) x E-4	(1 ± 1) x E-5
15	(-1 ± 2) x E-5	(4.0 ± 19.7) x E-6

