



Q30-013

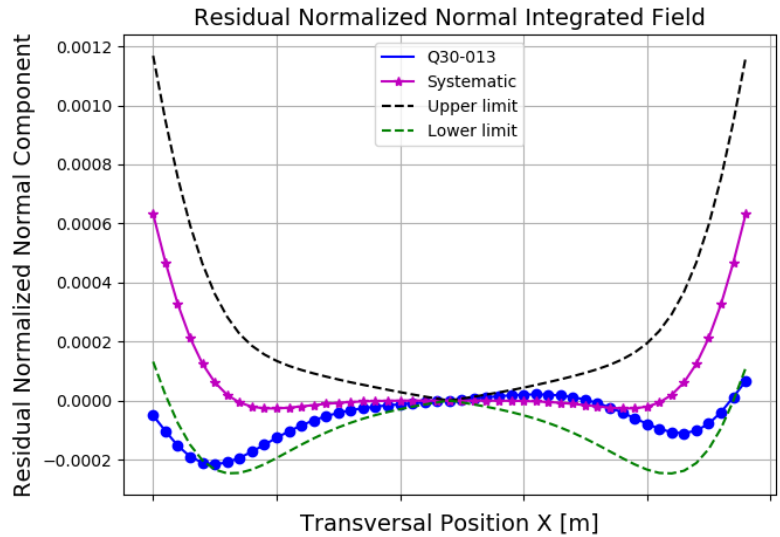
STORAGE RING MAGNET REPORT

Results

Date	07/05/2018
Hour	11:55:07
Temperature [°C]	23.45
Number of Measurements	9
Main Coil Current [A]	(154.9976 ± 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]	(-13.64031 ± 0.00005)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(-8.25 ± 0.03)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	$(-3.6 \pm 0.8) \times E-1$
Roll [mrad] - ($< \pm 0.3$)	$(-3.00 \pm 0.03) \times E-1$

Electric Parameters

Inductance [mH]	9.24
Voltage [V]	7.4863
Resistance [$\text{m}\Omega$]	48.3
Main Coil Number of Turns	23.25



n	Normalized Normal Multipoles $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	$(6.88 \pm 0.02) \times E-4$	$(3.0 \pm 0.6) \times E-5$
2 (quadrupole)	(1.000000 ± 0.000005)	$(-6.00 \pm 0.06) \times E-4$
3 (sextupole)	$(8.2 \pm 0.5) \times E-5$	$(1.25 \pm 0.07) \times E-4$
4	$(6.2 \pm 0.4) \times E-5$	$(3 \pm 5) \times E-6$
5	$(-2.7 \pm 0.5) \times E-5$	$(-1.2 \pm 0.9) \times E-5$
6	$(-1.100 \pm 0.006) \times E-3$	$(9.4 \pm 0.5) \times E-5$
7	$(-5.3 \pm 63.3) \times E-7$	$(-3 \pm 8) \times E-6$
8	$(-3 \pm 5) \times E-6$	$(-1.3 \pm 0.7) \times E-5$
9	$(1.1 \pm 0.8) \times E-5$	$(6 \pm 9) \times E-6$
10	$(1.779 \pm 0.007) \times E-3$	$(-4.1 \pm 0.9) \times E-5$
11	$(-4 \pm 7) \times E-6$	$(-6 \pm 7) \times E-6$
12	$(-1.1 \pm 10.1) \times E-6$	$(9 \pm 7) \times E-6$
13	$(-6 \pm 8) \times E-6$	$(-3 \pm 7) \times E-6$
14	$(-7.30 \pm 0.04) \times E-4$	$(9 \pm 9) \times E-6$
15	$(2 \pm 6) \times E-6$	$(5 \pm 7) \times E-6$

