



Q14-037

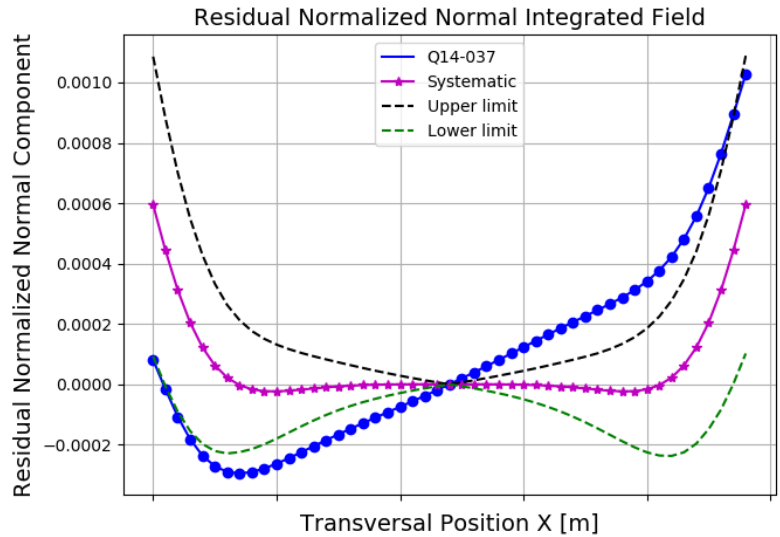
STORAGE RING MAGNET REPORT

Results

Date	13/04/2018
Hour	12:11:10
Temperature [°C]	23.7
Number of Measurements	9
Main Coil Current [A]	(147.9957 ± 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]	(-5.23714 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(-9.94 ± 0.07)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(1.64 ± 0.05)
Roll [mrad] - ($< \pm 0.3$)	$(-3.54 \pm 0.02) \times E-1$

Electric Parameters

Inductance [mH]	4.781
Voltage [V]	4.4843
Resistance [$\text{m}\Omega$]	30.3
Main Coil Number of Turns	20.0



n	Normalized Normal Multipoles $x=12.0 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]
1 (dipole)	$(8.28 \pm 0.06) \times E-4$	$(-1.37 \pm 0.04) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000004)	$(-7.08 \pm 0.03) \times E-4$
3 (sextupole)	$(4.66 \pm 0.02) \times E-4$	$(1.09 \pm 0.03) \times E-4$
4	$(1.27 \pm 0.04) \times E-4$	$(-6 \pm 3) \times E-6$
5	$(2.1 \pm 0.3) \times E-5$	$(-3.93 \pm 282.45) \times E-8$
6	$(-4.34 \pm 0.05) \times E-4$	$(4.6 \pm 0.4) \times E-5$
7	$(-7 \pm 4) \times E-6$	$(-8 \pm 4) \times E-6$
8	$(-6 \pm 4) \times E-6$	$(-7 \pm 3) \times E-6$
9	$(-2 \pm 4) \times E-6$	$(2.4 \pm 26.1) \times E-7$
10	$(1.543 \pm 0.004) \times E-3$	$(-1.4 \pm 0.4) \times E-5$
11	$(-1 \pm 5) \times E-6$	$(-2 \pm 3) \times E-6$
12	$(4 \pm 3) \times E-6$	$(8 \pm 5) \times E-6$
13	$(4.754 \pm 2741.135) \times E-9$	$(-2 \pm 3) \times E-6$
14	$(-6.81 \pm 0.03) \times E-4$	$(-9 \pm 3) \times E-6$
15	$(-3 \pm 4) \times E-6$	$(4 \pm 4) \times E-6$

