



Q20-043

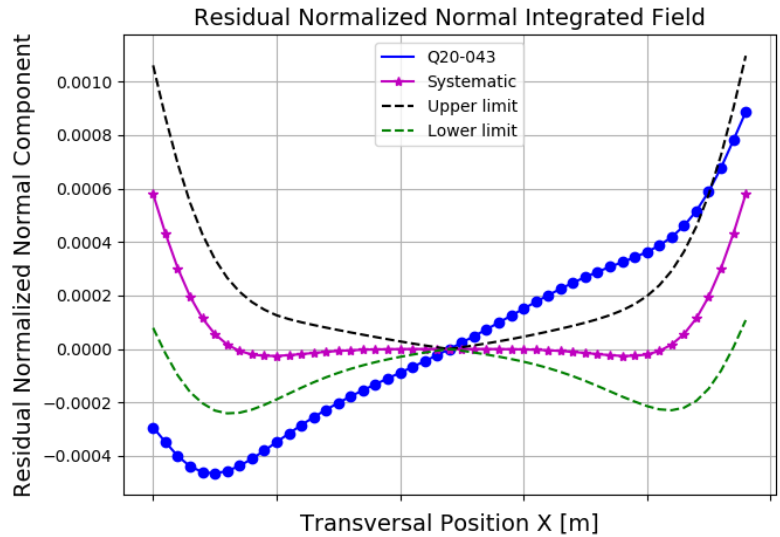
STORAGE RING MAGNET REPORT

Results

Date	15/06/2018
Hour	13:03:58
Temperature [°C]	23.63
Number of Measurements	9
Main Coil Current [A]	(157.3577 ± 0.0007)
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]	(-9.07266 ± 0.00005)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	$(3.4 \pm 0.4) \times \text{E-1}$
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(12.92 ± 0.06)
Roll [mrad] - ($< \pm 0.3$)	$(1.54 \pm 0.02) \times \text{E-1}$

Electric Parameters

Inductance [mH]	8.9467
Voltage [V]	5.42
Resistance [$\text{m}\Omega$]	34.4
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)	$(-2.9 \pm 0.4) \times \text{E-5}$	$(-1.077 \pm 0.005) \times \text{E-3}$
2 (quadrupole)	(1.000000 ± 0.000007)	$(3.08 \pm 0.04) \times \text{E-4}$
3 (sextupole)	$(5.62 \pm 0.04) \times \text{E-4}$	$(5.53 \pm 0.06) \times \text{E-4}$
4	$(2.04 \pm 0.04) \times \text{E-4}$	$(-4.0 \pm 0.5) \times \text{E-5}$
5	$(5.1 \pm 0.7) \times \text{E-5}$	$(-7.8 \pm 0.6) \times \text{E-5}$
6	$(-8.87 \pm 0.06) \times \text{E-4}$	$(1.28 \pm 0.08) \times \text{E-4}$
7	$(-1.6 \pm 0.5) \times \text{E-5}$	$(-1.4 \pm 0.6) \times \text{E-5}$
8	$(-3 \pm 4) \times \text{E-6}$	$(-5 \pm 5) \times \text{E-6}$
9	$(-1.6 \pm 0.7) \times \text{E-5}$	$(5 \pm 7) \times \text{E-6}$
10	$(1.701 \pm 0.004) \times \text{E-3}$	$(-4.2 \pm 0.7) \times \text{E-5}$
11	$(7 \pm 8) \times \text{E-6}$	$(-4 \pm 6) \times \text{E-6}$
12	$(3 \pm 3) \times \text{E-6}$	$(6 \pm 5) \times \text{E-6}$
13	$(6 \pm 4) \times \text{E-6}$	$(-7 \pm 6) \times \text{E-6}$
14	$(-7.20 \pm 0.04) \times \text{E-4}$	$(1.9 \pm 0.6) \times \text{E-5}$
15	$(-4 \pm 7) \times \text{E-6}$	$(1 \pm 9) \times \text{E-6}$

