

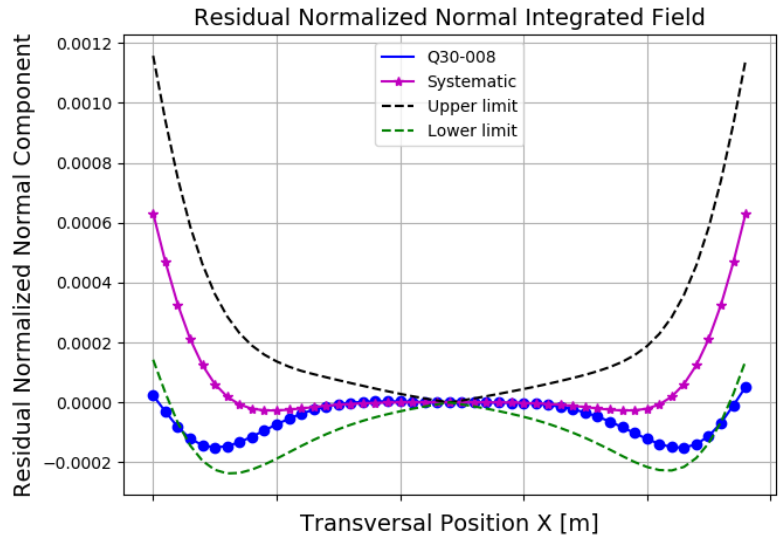


Q30-008

STORAGE RING MAGNET REPORT

Results

Date	07/05/2018
Hour	13:05:18
Temperature [°C]	23.43
Number of Measurements	9
Main Coil Current [A]	(154.9981 ± 0.0005)
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]	(-13.64216 ± 0.00003)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(2.73 ± 0.03)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(-2.25 ± 0.09)
Roll [mrad] - ($< \pm 0.3$)	$(-2.49 \pm 0.03) \times E-1$
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)	$(-2.28 \pm 0.03) \times E-4$	$(1.87 \pm 0.08) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000003)	$(-4.99 \pm 0.06) \times E-4$
3 (sextupole)	$(-1.2 \pm 0.4) \times E-5$	$(1.13 \pm 0.08) \times E-4$
4	$(7.5 \pm 0.5) \times E-5$	$(-8.2 \pm 1.0) \times E-5$
5	$(7 \pm 2) \times E-6$	$(8 \pm 9) \times E-6$
6	$(-1.089 \pm 0.008) \times E-3$	$(7.9 \pm 0.6) \times E-5$
7	$(1.5 \pm 0.5) \times E-5$	$(-4 \pm 9) \times E-6$
8	$(-8 \pm 5) \times E-6$	$(2 \pm 5) \times E-6$
9	$(6 \pm 7) \times E-6$	$(-2 \pm 9) \times E-6$
10	$(1.783 \pm 0.006) \times E-3$	$(-3.4 \pm 0.8) \times E-5$
11	$(3 \pm 4) \times E-6$	$(-9.65 \pm 866.46) \times E-8$
12	$(9 \pm 7) \times E-6$	$(7 \pm 9) \times E-6$
13	$(-2 \pm 7) \times E-6$	$(-7.785 \pm 1077.672) \times E-8$
14	$(-7.33 \pm 0.05) \times E-4$	$(3 \pm 8) \times E-6$
15	$(-3 \pm 6) \times E-6$	$(2 \pm 6) \times E-6$

