



BQD-022

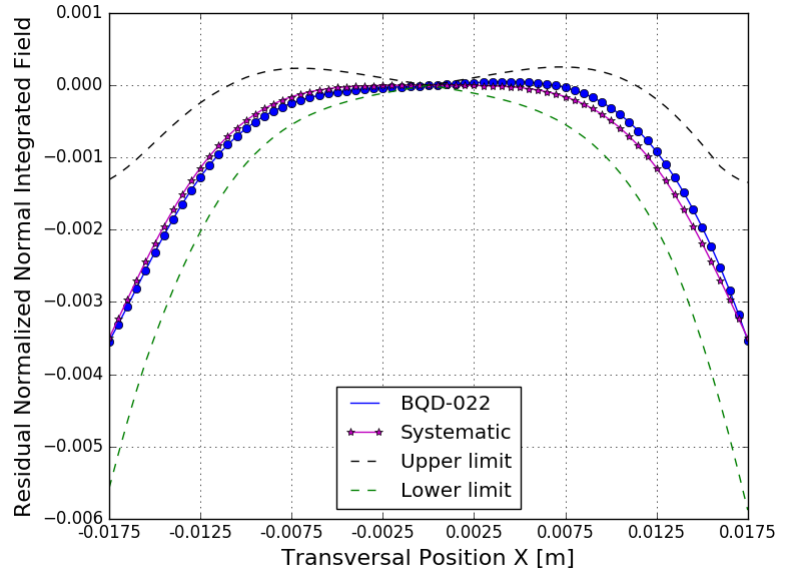
BOOSTER MAGNET REPORT

Results

Date	10/05/2016
Hour	08:58:45
Temperature [°C]	23.6
Number of Measurements	17
Main Coil Current [A]	(31.9640 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	$(-5.29612 \pm 0.00006) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-4.4 ± 0.2)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-28.4 ± 0.2)
Roll [mrad] - ($< \pm 0.8$)	$(-4.5 \pm 0.2) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.789
Voltage [V]	0.2769
Resistance [m Ω]	27.69
Main Coil Number of Turns	27.5



Normalized
Normal
Multipoles
 $x=17.5 \text{ mm}$
[T.m⁽²⁻ⁿ⁾]

Normalized
Skew
Multipoles
 $x=17.5 \text{ mm}$
[T.m⁽²⁻ⁿ⁾]

n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	$(-2.5 \pm 0.1) \times 10^{-4}$	$(-1.62 \pm 0.01) \times 10^{-3}$
2 (quadrupole)	(1.00000 ± 0.00001)	$(-9.0 \pm 0.1) \times 10^{-4}$
3 (sextupole)	$(2.51 \pm 0.09) \times 10^{-4}$	$(-8.4 \pm 0.2) \times 10^{-4}$
4	$(10 \pm 2) \times 10^{-5}$	$(1.2 \pm 0.2) \times 10^{-4}$
5	$(-2 \pm 2) \times 10^{-5}$	$(7.9 \pm 14.8) \times 10^{-6}$
6	$(-4.66 \pm 0.01) \times 10^{-3}$	$(-3 \pm 1) \times 10^{-5}$
7	$(7 \pm 2) \times 10^{-5}$	$(6 \pm 1) \times 10^{-5}$
8	$(-5 \pm 2) \times 10^{-5}$	$(-1 \pm 2) \times 10^{-5}$
9	$(-6 \pm 2) \times 10^{-5}$	$(-6 \pm 2) \times 10^{-5}$
10	$(1.18 \pm 0.01) \times 10^{-3}$	$(-3 \pm 3) \times 10^{-5}$
11	$(4 \pm 2) \times 10^{-5}$	$(4.1 \pm 28.7) \times 10^{-6}$
12	$(-1 \pm 2) \times 10^{-5}$	$(3 \pm 2) \times 10^{-5}$
13	$(-3.1 \pm 1.0) \times 10^{-4}$	$(-4 \pm 8) \times 10^{-5}$
14	$(-9 \pm 2) \times 10^{-5}$	$(-1 \pm 5) \times 10^{-5}$
15	$(2 \pm 3) \times 10^{-5}$	$(-7.5 \pm 31.3) \times 10^{-6}$

