



BQF-032

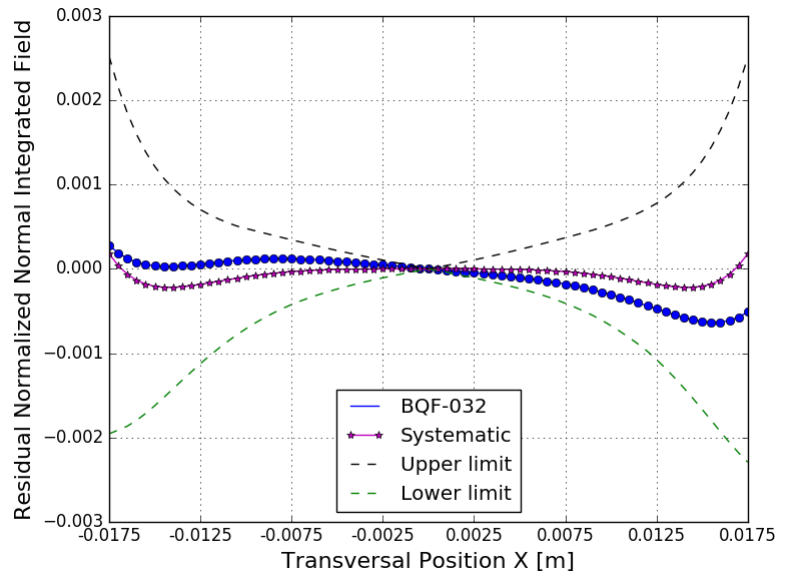
BOOSTER MAGNET REPORT

Results

Date	13/04/2016
Hour	15:46:56
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(130.0120 ± 0.0003)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82732 ± 0.00001)
Magnet Center Offset X [μm] - (< ±160.0)	(35.46 ± 0.06)
Magnet Center Offset Y [μm] - (< ±160.0)	(-29.46 ± 0.06)
Roll [mrad] - (< ±0.8)	(-5.35 ± 0.04) × E-1

Electric Parameters

Inductance [mH]	8.214
Voltage [V]	0.483
Resistance [mΩ]	48.30
Main Coil Number of Turns	26.25



n	Normalized Normal Multipoles x=17.5 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=17.5 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(2.026 ± 0.003) × E-3	(-1.683 ± 0.003) × E-3
2 (quadrupole)	(1.000000 ± 0.000003)	(-1.071 ± 0.003) × E-3
3 (sextupole)	(-3.30 ± 0.03) × E-4	(-5.94 ± 0.03) × E-4
4	(4.3 ± 0.3) × E-5	(1.47 ± 0.03) × E-4
5	(-1.14 ± 0.04) × E-4	(-1.5 ± 0.6) × E-5
6	(-1.157 ± 0.003) × E-3	(-2.9 ± 0.4) × E-5
7	(6.3 ± 0.2) × E-5	(1.2 ± 0.5) × E-5
8	(-2.8 ± 0.2) × E-5	(-3.7 ± 0.4) × E-5
9	(-1.2 ± 0.3) × E-5	(7 ± 6) × E-6
10	(1.105 ± 0.004) × E-3	(-1.8 ± 0.4) × E-5
11	(1.4 ± 0.5) × E-5	(-1.7 ± 0.5) × E-5
12	(6.1 ± 22.5) × E-7	(3.0 ± 0.4) × E-5
13	(-3.2 ± 0.3) × E-5	(10 ± 4) × E-6
14	(-8.0 ± 0.4) × E-5	(-1.6 ± 0.7) × E-5
15	(1.6 ± 0.4) × E-5	(-1.9 ± 0.7) × E-5

