



BQF-054

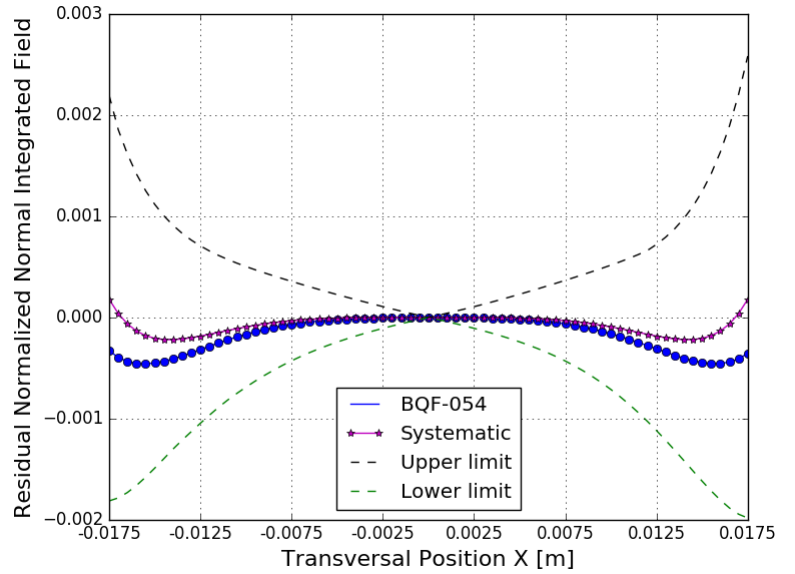
## BOOSTER MAGNET REPORT

### Results

Date	06/04/2016
Hour	15:40:05
Temperature [°C]	21.0
Number of Measurements	17
Main Coil Current [A]	(130.0136 ± 0.0004)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82497 ± 0.00001)
Magnet Center Offset X [μm] - (< ±160.0)	(1.50 ± 0.04)
Magnet Center Offset Y [μm] - (< ±160.0)	(-30.84 ± 0.06)
Roll [mrad] - (< ±0.8)	(-4.57 ± 0.06) × E-1

### Electric Parameters

Inductance [mH]	8.247
Voltage [V]	0.477
Resistance [mΩ]	47.70
Main Coil Number of Turns	26.25



n	Normalized Normal Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(8.6 ± 0.2) × E-5	(-1.763 ± 0.004) × E-3
2 (quadrupole)	(1.000000 ± 0.000003)	(-9.14 ± 0.04) × E-4
3 (sextupole)	(8 ± 3) × E-6	(-4.58 ± 0.03) × E-4
4	(-1.48 ± 0.02) × E-4	(9.4 ± 0.4) × E-5
5	(-2.4 ± 0.3) × E-5	(-1.8 ± 0.5) × E-5
6	(-1.193 ± 0.003) × E-3	(-9 ± 7) × E-6
7	(4.4 ± 0.3) × E-5	(-6 ± 5) × E-6
8	(-5 ± 3) × E-6	(-2.3 ± 0.5) × E-5
9	(-2.6 ± 0.4) × E-5	(1.4 ± 0.4) × E-5
10	(1.106 ± 0.003) × E-3	(-1.3 ± 0.5) × E-5
11	(1.4 ± 0.4) × E-5	(-6 ± 4) × E-6
12	(-4.8 ± 41.9) × E-7	(7 ± 5) × E-6
13	(-1.8 ± 0.4) × E-5	(3.4 ± 0.7) × E-5
14	(-1.02 ± 0.07) × E-4	(-1.2 ± 0.4) × E-5
15	(-1.1 ± 0.4) × E-5	(-2.1 ± 0.4) × E-5

