



# BQF-042

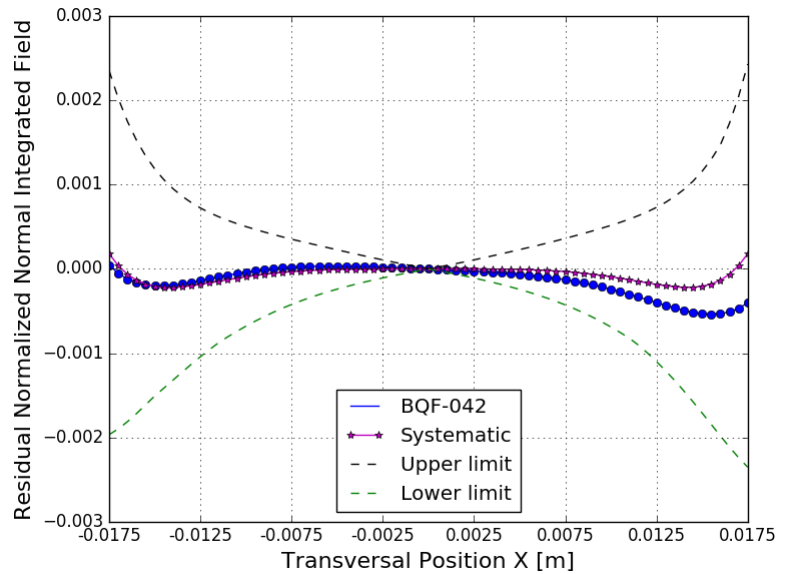
## BOOSTER MAGNET REPORT

### Results

Date	12/04/2016
Hour	16:17:04
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(129.9266 ± 0.0003)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82944 ± 0.00002)
Magnet Center Offset X [μm] - (< ±160.0)	(19.19 ± 0.04)
Magnet Center Offset Y [μm] - (< ±160.0)	(-16.22 ± 0.08)
Roll [mrad] - (< ±0.8)	(-4.99 ± 0.05) × E-1

### Electric Parameters

Inductance [mH]	8.297
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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(1.096 ± 0.003) × E-3	(-9.27 ± 0.05) × E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(-9.98 ± 0.03) × E-4
3 (sextupole)	(-1.65 ± 0.04) × E-4	(-7.36 ± 0.04) × E-4
4	(-9.9 ± 0.4) × E-5	(7.6 ± 0.4) × E-5
5	(-5.4 ± 0.4) × E-5	(1.4 ± 0.6) × E-5
6	(-1.116 ± 0.003) × E-3	(-2.2 ± 0.5) × E-5
7	(5.6 ± 0.4) × E-5	(1.1 ± 0.4) × E-5
8	(-1.9 ± 0.4) × E-5	(-1.9 ± 0.3) × E-5
9	(-3.7 ± 0.3) × E-5	(1.3 ± 0.3) × E-5
10	(1.121 ± 0.004) × E-3	(-2.2 ± 0.5) × E-5
11	(1.2 ± 0.4) × E-5	(-2.3 ± 0.5) × E-5
12	(8 ± 4) × E-6	(2.4 ± 0.3) × E-5
13	(-2.8 ± 0.5) × E-5	(2.8 ± 0.5) × E-5
14	(-7.4 ± 0.2) × E-5	(-3.1 ± 0.5) × E-5
15	(-7 ± 6) × E-6	(-1.6 ± 0.4) × E-5

