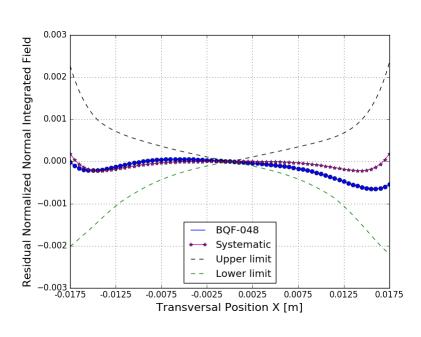


## **BQF-048**

## **BOOSTER MAGNET REPORT**

Results		
Date	01/04/2016	
Hour	14:37:37	
Temperature [°C]	21.2	
Number of Measurements	17	
Main Coil Current [A]	(130.0059 ± 0.0005)	
Trim Coil Current [A]		
Integrated Gradient [T]	(-4.82967 ± 0.00002)	
Magnet Center Offset X [μm] - (< ±160.0)	(12.38 ± 0.07)	
Magnet Center Offset Y [μm] - (< ±160.0)	(-18.3 ± 0.1)	
Roll [mrad] - (< ±0.8)	(-5.13 ± 0.03) x E-1	
Electric Parameters		
Indutance [mH]	8.368	
Voltage [V]	0.474	
Resistance [m $\Omega$ ]	47.40	
Main Coil Number of Turns	26.25	



	Normalized Normal	Normalized Skew	
n	Multipoles x=17.5 mm	Multipoles x=17.5 mm	
	[T.m <sup>(2-n)</sup> ]	[T.m <sup>(2-n)</sup> ]	
1 (dipole)	(7.07 ± 0.04) x E-4	(-1.049 ± 0.007) x E-3	
2 (quadrupole)	(1.000000 ± 0.000004)	(-1.027 ± 0.002) x E-3	
3 (sextupole)	(-2.48 ± 0.05) x E-4	(-9.96 ± 0.04) x E-4	
4	(-1.20 ± 0.02) x E-4	(1.33 ± 0.04) x E-4	
5	(-9 ± 2) x E-6	(5.7 ± 0.6) x E-5	
6	(-1.200 ± 0.004) x E-3	(-1.2 ± 0.2) x E-5	
7	(3.5 ± 0.3) x E-5	(-3 ± 5) x E-6	
8	(-6 ± 3) x E-6	(-5.8 ± 0.3) x E-5	
9	(2 ± 4) x E-6	(1.6 ± 0.5) x E-5	
10	(1.122 ± 0.005) x E-3	(1.9 ± 0.4) x E-5	
11	(-2.3 ± 0.4) x E-5	(-2.4 ± 0.4) x E-5	
12	(2 ± 4) x E-6	(-2.2 ± 0.5) x E-5	
13	(4 ± 3) x E-6	(9 ± 3) x E-6	
14	(-8.1 ± 0.5) x E-5	(7 ± 4) x E-6	
15	(-2.5 ± 0.7) x E-5	(-1 ± 4) x E-6	

