

**BS-030****BOOSTER MAGNET REPORT****Results**

Date 19/10/2016

Hour 12:31:30

Temperature [°C] 23.0

Number of Measurements 17

Main Coil Current [A] (149.966 ± 0.002)

Trim Coil Current [A] (0 ± 0)

Integrated Gradient [T.m] (-21.4209 ± 0.0005)

Magnet Center Offset X [μm] - (< ±160.0) (4.3 ± 0.2)

Magnet Center Offset Y [μm] - (< ±160.0) (-48.1 ± 0.2)

Roll [mrad] - (< ±0.8) (9.1 ± 0.6) × E-2

Electric Parameters

Inductance [mH] 0.109

Voltage [V] --

Resistance [mΩ] --

Main Coil Number of Turns 3

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) (-3.18 ± 0.03) × E-3 (-1.50 ± 0.02) × E-3

2 (quadrupole) (4.9 ± 0.2) × E-4 (-5.49 ± 0.03) × E-3

3 (sextupole) (1.00000 ± 0.00002) (2.7 ± 0.2) × E-4

4 (-1.1 ± 0.2) × E-4 (-7.0 ± 0.2) × E-4

5 (-1.78 ± 0.03) × E-3 (-4.2 ± 43.7) × E-6

6 (7 ± 4) × E-5 (1.6 ± 38.3) × E-6

7 (-3.5 ± 0.6) × E-4 (-3 ± 4) × E-5

8 (-2.9 ± 48.7) × E-6 (5.2 ± 0.5) × E-4

9 (-2.165 ± 0.004) × E-2 (-4 ± 3) × E-5

10 (4 ± 2) × E-5 (3 ± 4) × E-5

11 (8 ± 6) × E-5 (2 ± 4) × E-5

12 (5.6 ± 47.1) × E-6 (-2 ± 4) × E-5

13 (-8.9 ± 86.2) × E-6 (-1 ± 7) × E-5

14 (-3 ± 7) × E-5 (6.0 ± 1.0) × E-4

15 (-1.683 ± 0.005) × E-2 (-9 ± 5) × E-5

