



BQD-025

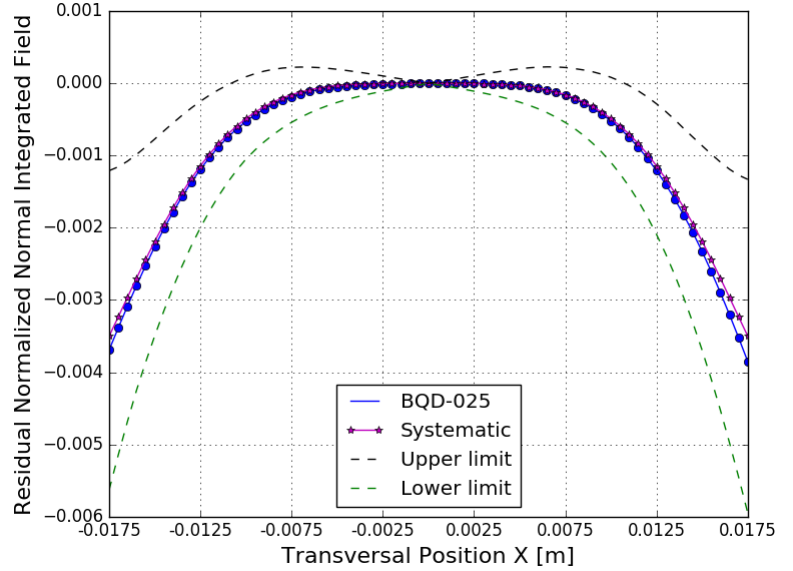
BOOSTER MAGNET REPORT

Results

| | |
|--|----------------------------|
| Date | 11/05/2016 |
| Hour | 14:06:32 |
| Temperature [°C] | 23.7 |
| Number of Measurements | 17 |
| Main Coil Current [A] | (31.98 ± 0.01) |
| Trim Coil Current [A] | -- |
| Integrated Gradient [T] | (-5.29128 ± 0.00005) x E-1 |
| Magnet Center Offset X [μm] - (< ±160.0) | (16.0 ± 0.1) |
| Magnet Center Offset Y [μm] - (< ±160.0) | (-50.1 ± 0.3) |
| Roll [mrad] - (< ±0.8) | (-3.4 ± 0.2) x E-1 |

Electric Parameters

| | |
|---------------------------|--------|
| Inductance [mH] | 3.733 |
| Voltage [V] | 0.2791 |
| Resistance [mΩ] | 27.91 |
| Main Coil Number of Turns | 27.5 |



Normalized
Normal
Multipoles
x=17.5 mm
[T.m⁽²⁻ⁿ⁾]

Normalized
Skew
Multipoles
x=17.5 mm
[T.m⁽²⁻ⁿ⁾]

| 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) | (9.13 ± 0.07) x E-4 | (-2.86 ± 0.02) x E-3 |
| 2 (quadrupole) | (1.000000 ± 0.000009) | (-6.9 ± 0.1) x E-4 |
| 3 (sextupole) | (3.9 ± 0.9) x E-5 | (-5.8 ± 0.1) x E-4 |
| 4 | (-1.1 ± 0.2) x E-4 | (1.5 ± 0.1) x E-4 |
| 5 | (-1.1 ± 0.1) x E-4 | (7 ± 1) x E-5 |
| 6 | (-4.67 ± 0.01) x E-3 | (3.4 ± 16.3) x E-6 |
| 7 | (3 ± 2) x E-5 | (7 ± 1) x E-5 |
| 8 | (-2 ± 2) x E-5 | (-7.1 ± 17.8) x E-6 |
| 9 | (-5 ± 2) x E-5 | (4 ± 2) x E-5 |
| 10 | (1.14 ± 0.02) x E-3 | (9.6 ± 28.8) x E-6 |
| 11 | (3 ± 2) x E-5 | (1 ± 2) x E-5 |
| 12 | (-8.4 ± 17.9) x E-6 | (1 ± 2) x E-5 |
| 13 | (-6 ± 3) x E-5 | (3 ± 3) x E-5 |
| 14 | (-1.1 ± 0.2) x E-4 | (-1 ± 3) x E-5 |
| 15 | (3 ± 3) x E-5 | (-1 ± 2) x E-5 |

