



BQF-052

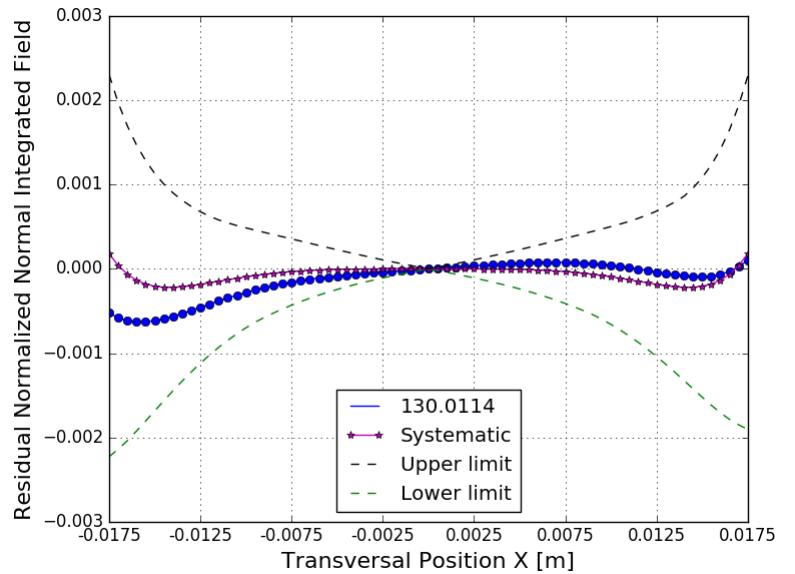
BOOSTER MAGNET REPORT

Results

| | |
|--|----------------------|
| Date | 06/04/2016 |
| Hour | 10:43:23 |
| Temperature [°C] | 21.2 |
| Number of Measurements | 17 |
| Main Coil Current [A] | (130.0114 ± 0.0005) |
| Trim Coil Current [A] | (0 ± 0) |
| Integrated Gradient [T] | (-4.82156 ± 0.00006) |
| Magnet Center Offset X [μm] - (< ±160.0) | (15.1 ± 0.4) |
| Magnet Center Offset Y [μm] - (< ±160.0) | (-34.9 ± 0.2) |
| Roll [mrad] - (< ±0.8) | (-2.94 ± 0.08) × E-1 |

Electric Parameters

| | |
|---------------------------|-------|
| Inductance [mH] | 8.389 |
| Voltage [V] | 0.487 |
| Resistance [mΩ] | 3.746 |
| Main Coil Number of Turns | 26.25 |



| 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) | (8.6 ± 0.2) × E-4 | (-1.99 ± 0.01) × E-3 |
| 2 (quadrupole) | (1.00000 ± 0.00001) | (-5.87 ± 0.05) × E-4 |
| 3 (sextupole) | (2.6 ± 0.1) × E-4 | (-5.8 ± 0.2) × E-4 |
| 4 | (-4.2 ± 15.8) × E-6 | (1.4 ± 0.1) × E-4 |
| 5 | (5 ± 1) × E-5 | (-1 ± 2) × E-5 |
| 6 | (-1.22 ± 0.01) × E-3 | (-3 ± 2) × E-5 |
| 7 | (3 ± 1) × E-5 | (2 ± 1) × E-5 |
| 8 | (-1 ± 1) × E-5 | (-3 ± 2) × E-5 |
| 9 | (-3 ± 1) × E-5 | (2 ± 1) × E-5 |
| 10 | (1.11 ± 0.01) × E-3 | (-2 ± 2) × E-5 |
| 11 | (3 ± 1) × E-5 | (-3 ± 1) × E-5 |
| 12 | (1.8 ± 1.0) × E-5 | (2 ± 1) × E-5 |
| 13 | (-2.7 ± 0.6) × E-5 | (2 ± 1) × E-5 |
| 14 | (-1.04 ± 0.07) × E-4 | (-2.8 ± 0.5) × E-5 |
| 15 | (2 ± 7) × E-6 | (-6 ± 10) × E-6 |

