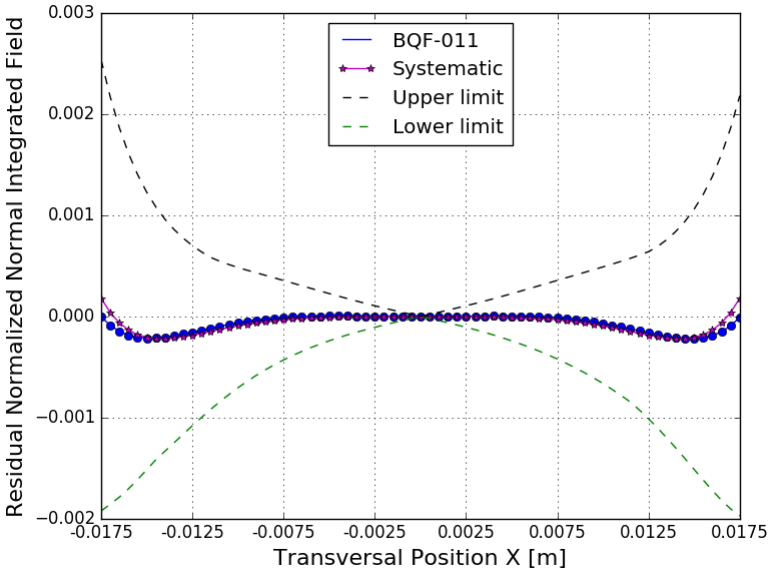
# BQF-011

# BOOSTER MAGNET REPORT

| Results | |
|---|---|
| **Date** | 31/03/2016 |
| **Hour** | 10:18:56 |
| **Temperature [°C]** | 21.2 |
| **Number of Measurements** | 17 |
| **Main Coil Current [A]** | (129.9993 ± 0.0005) |
| **Trim Coil Current [A]** | -- |
| **Integrated Gradient [T]** | (-4.821787 ± 0.000009) |
| **Magnet Center Offset X [μm] - (< ±160.0)** | (2.26 ± 0.08) |
| **Magnet Center Offset Y [μm] - (< ±160.0)** | (-10.51 ± 0.05) |
| **Roll [mrad] - (< ±0.8)** | (-4.84 ± 0.05) x E-1 |
| **Electric Parameters** | |
| **Indutance [mH]** | 8.278 |
| **Voltage [V]** | 0.485 |
| **Resistance [mΩ]** | 48.50 |
| **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) | (1.29 ± 0.05) x E-4 | (-6.01 ± 0.03) x E-4 |
| 2 (quadrupole) | (1.000000 ± 0.000002) | (-9.68 ± 0.03) x E-4 |
| 3 (sextupole) | (1 ± 3) x E-6 | (-6.93 ± 0.04) x E-4 |
| 4 | (1.39 ± 0.04) x E-4 | (6.9 ± 0.4) x E-5 |
| 5 | (-3.8 ± 0.2) x E-5 | (2.2 ± 0.3) x E-5 |
| 6 | (-1.153 ± 0.004) x E-3 | (-2.3 ± 0.3) x E-5 |
| 7 | (6.3 ± 0.4) x E-5 | (8 ± 4) x E-6 |
| 8 | (-3.1 ± 0.3) x E-5 | (-3.0 ± 0.4) x E-5 |
| 9 | (-3.2 ± 0.4) x E-5 | (2 ± 4) x E-6 |
| 10 | (1.128 ± 0.005) x E-3 | (-2.7 ± 0.5) x E-5 |
| 11 | (2.5 ± 0.6) x E-5 | (-2.7 ± 0.5) x E-5 |
| 12 | (7 ± 5) x E-6 | (1.7 ± 0.4) x E-5 |
| 13 | (-3.1 ± 0.4) x E-5 | (10 ± 3) x E-6 |
| 14 | (-9.6 ± 0.4) x E-5 | (-2.7 ± 0.5) x E-5 |
| 15 | (10 ± 6) x E-6 | (-1.9 ± 0.8) x E-5 |