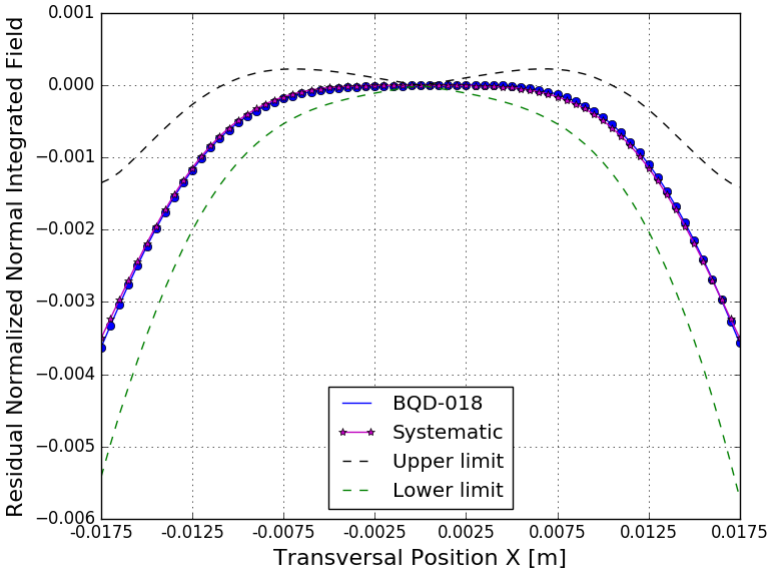
# BQD-018

# BOOSTER MAGNET REPORT

| Results | |
|---|---|
| **Date** | 10/05/2016 |
| **Hour** | 11:57:47 |
| **Temperature [°C]** | 23.6 |
| **Number of Measurements** | 17 |
| **Main Coil Current [A]** | (31.9597 ± 0.0005) |
| **Trim Coil Current [A]** | -- |
| **Integrated Gradient [T]** | (-5.30154 ± 0.00005) x E-1 |
| **Magnet Center Offset X [μm] - (< ±160.0)** | (-24.7 ± 0.2) |
| **Magnet Center Offset Y [μm] - (< ±160.0)** | (-41.3 ± 0.3) |
| **Roll [mrad] - (< ±0.8)** | (-1.6 ± 0.2) x E-1 |
| **Electric Parameters** | |
| **Indutance [mH]** | 3.778 |
| **Voltage [V]** | 0.2785 |
| **Resistance [mΩ]** | 27.85 |
| **Main Coil Number of Turns** | 27.5 |




| 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) | (-1.41 ± 0.01) x E-3 | (-2.36 ± 0.02) x E-3 |
| 2 (quadrupole) | (1.000000 ± 0.000010) | (-3.2 ± 0.1) x E-4 |
| 3 (sextupole) | (8.1 ± 0.9) x E-5 | (-8.0 ± 0.1) x E-4 |
| 4 | (6.4 ± 11.3) x E-6 | (9 ± 2) x E-5 |
| 5 | (-7 ± 2) x E-5 | (9 ± 2) x E-5 |
| 6 | (-4.61 ± 0.01) x E-3 | (-3 ± 1) x E-5 |
| 7 | (7 ± 1) x E-5 | (4 ± 2) x E-5 |
| 8 | (-8 ± 2) x E-5 | (-2 ± 2) x E-5 |
| 9 | (-7 ± 2) x E-5 | (-6.5 ± 19.9) x E-6 |
| 10 | (1.17 ± 0.01) x E-3 | (2 ± 2) x E-5 |
| 11 | (4 ± 2) x E-5 | (-3 ± 3) x E-5 |
| 12 | (-3 ± 3) x E-5 | (2 ± 2) x E-5 |
| 13 | (-4 ± 1) x E-5 | (-4 ± 1) x E-5 |
| 14 | (-6 ± 3) x E-5 | (1 ± 2) x E-5 |
| 15 | (2 ± 2) x E-5 | (-3 ± 2) x E-5 |