



# BQF-028

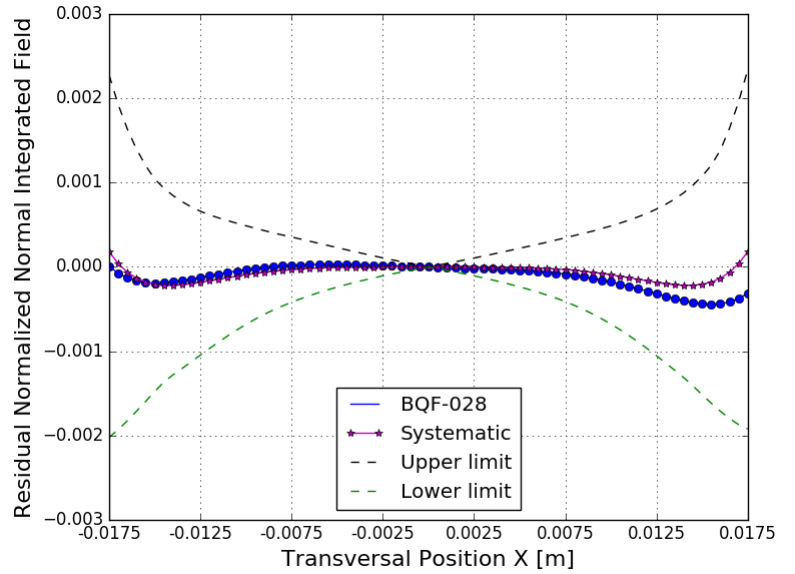
## BOOSTER MAGNET REPORT

### Results

|  |                      |
|--|----------------------|
| Date                                     | 12/04/2016           |
| Hour                                     | 08:38:15             |
| Temperature [°C]                         | 21.4                 |
| Number of Measurements                   | 17                   |
| Main Coil Current [A]                    | (130.0257 ± 0.0003)  |
| Trim Coil Current [A]                    | --                   |
| Integrated Gradient [T]                  | (-4.82407 ± 0.00001) |
| Magnet Center Offset X [μm] - (< ±160.0) | (17.87 ± 0.05)       |
| Magnet Center Offset Y [μm] - (< ±160.0) | (-31.42 ± 0.08)      |
| Roll [mrad] - (< ±0.8)                   | (-3.84 ± 0.05) × E-1 |

### Electric Parameters

|                           |       |
|---------------------------|-------|
| Inductance [mH]           | 8.339 |
| Voltage [V]               | 0.481 |
| Resistance [mΩ]           | 48.10 |
| Main Coil Number of Turns | 26.25 |



| n              | Normalized Normal Multipoles<br>x=17.5 mm<br>[T.m <sup>(2-n)</sup> ] | Normalized Skew Multipoles<br>x=17.5 mm<br>[T.m <sup>(2-n)</sup> ] |
|----------------|--|--|
| 1 (dipole)     | (1.021 ± 0.003) × E-3  | (-1.795 ± 0.005) × E-3   |
| 2 (quadrupole) | (1.000000 ± 0.000002)  | (-7.68 ± 0.03) × E-4   |
| 3 (sextupole)  | (-1.12 ± 0.03) × E-4   | (-5.15 ± 0.04) × E-4   |
| 4              | (2.1 ± 0.4) × E-5  | (1.03 ± 0.03) × E-4  |
| 5              | (-5.7 ± 0.3) × E-5   | (-8 ± 5) × E-6   |
| 6              | (-1.160 ± 0.003) × E-3   | (-3.2 ± 0.2) × E-5   |
| 7              | (3.5 ± 0.3) × E-5  | (7 ± 4) × E-6  |
| 8              | (-2.8 ± 0.3) × E-5   | (-3.3 ± 0.2) × E-5   |
| 9              | (-2.1 ± 0.4) × E-5   | (5 ± 3) × E-6  |
| 10             | (1.097 ± 0.003) × E-3  | (-1.9 ± 0.5) × E-5   |
| 11             | (1.1 ± 0.4) × E-5  | (-2.2 ± 0.3) × E-5   |
| 12             | (-6 ± 3) × E-6   | (2.7 ± 0.3) × E-5  |
| 13             | (-2.1 ± 0.6) × E-5   | (6.71 ± 564.79) × E-8  |
| 14             | (-7.7 ± 0.3) × E-5   | (-2.3 ± 0.6) × E-5   |
| 15             | (5 ± 3) × E-6  | (6 ± 4) × E-6  |

