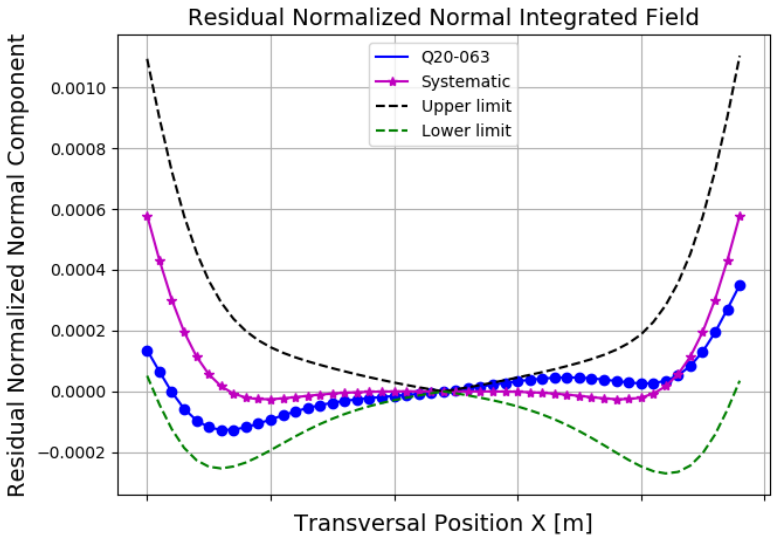
# Q20-063

# STORAGE RING MAGNET REPORT

| Results | |
|---|---|
| **Date** | 23/05/2018 |
| **Hour** | 15:37:14 |
| **Temperature [°C]** | 23.17 |
| **Number of Measurements** | 9 |
| **Main Coil Current [A]** | (157.4379 ± 0.0005) |
| **Trim Coil Current [A]** | (0 ± 0) |
| **CH Coil Current [A]** | (0 ± 0) |
| **CV Coil Current [A]** | (0 ± 0) |
| **QS Coil Current [A]** | (0 ± 0) |
| **Integrated Gradient [T]** | (-9.08035 ± 0.00003) |
| **Magnet Center Offset X [μm] - (< ±40.0)** | (1.28 ± 0.02) |
| **Magnet Center Offset Y [μm] - (< ±40.0)** | (4.65 ± 0.06) |
| **Roll [mrad] - (< ±0.3)** | (8.3 ± 0.2) x E-2 |
| **Electric Parameters** | |
| **Indutance [mH]** | 8.9467 |
| **Voltage [V]** | 5.42 |
| **Resistance [mΩ]** | 34.4 |
| **Main Coil Number of Turns** | 23.25 |




| n | Normalized Normal Multipoles x=12.0 mm [T.m$^{(2-n)}$] | Normalized Skew Multipoles x=12.0 mm [T.m$^{(2-n)}$] |
|---|---|---|
| 1 (dipole) | (-1.07 ± 0.02) x E-4 | (-3.88 ± 0.05) x E-4 |
| 2 (quadrupole) | (1.000000 ± 0.000005) | (1.65 ± 0.04) x E-4 |
| 3 (sextupole) | (1.11 ± 0.03) x E-4 | (2.39 ± 0.04) x E-4 |
| 4 | (1.41 ± 0.03) x E-4 | (-1.3 ± 0.5) x E-5 |
| 5 | (-10 ± 5) x E-6 | (-3.9 ± 0.4) x E-5 |
| 6 | (-8.49 ± 0.04) x E-4 | (7.4 ± 0.4) x E-5 |
| 7 | (7 ± 3) x E-6 | (-8 ± 7) x E-6 |
| 8 | (4.5 ± 38.6) x E-7 | (-1.1 ± 0.6) x E-5 |
| 9 | (4 ± 5) x E-6 | (-7 ± 3) x E-6 |
| 10 | (1.653 ± 0.003) x E-3 | (-2.0 ± 0.8) x E-5 |
| 11 | (-7 ± 2) x E-6 | (2 ± 4) x E-6 |
| 12 | (-4 ± 6) x E-6 | (1.2 ± 0.4) x E-5 |
| 13 | (3.2 ± 42.7) x E-7 | (8 ± 6) x E-6 |
| 14 | (-6.99 ± 0.05) x E-4 | (-1.2 ± 0.5) x E-5 |
| 15 | (2 ± 4) x E-6 | (-4 ± 4) x E-6 |