



Q20-081

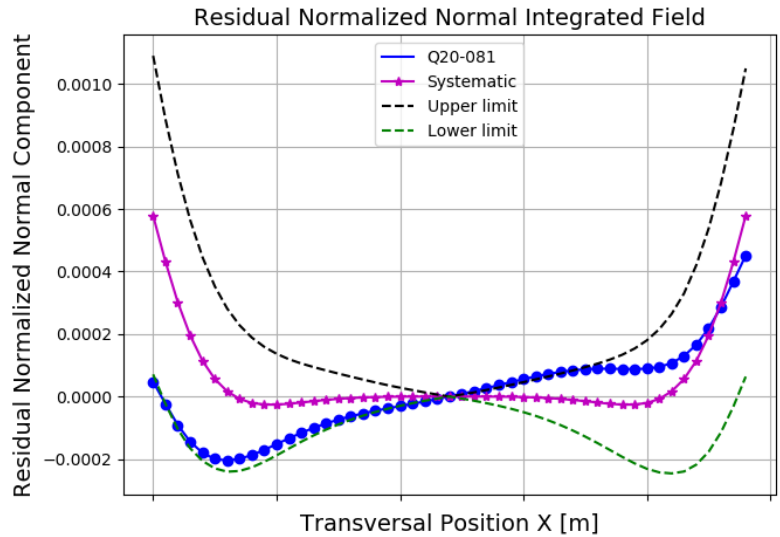
STORAGE RING MAGNET REPORT

Results

| | |
|---|----------------------|
| Date | 17/05/2018 |
| Hour | 09:33:31 |
| Temperature [°C] | 23.59 |
| Number of Measurements | 9 |
| Main Coil Current [A] | (157.4374 ± 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] | (-9.08132 ± 0.00005) |
| Magnet Center Offset X [μm] - (< ±40.0) | (6.07 ± 0.03) |
| Magnet Center Offset Y [μm] - (< ±40.0) | (8.59 ± 0.06) |
| Roll [mrad] - (< ±0.3) | (-4.6 ± 0.3) x E-2 |

Electric Parameters

| | |
|---------------------------|--------|
| Inductance [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) | (-5.05 ± 0.02) x E-4 | (-7.16 ± 0.05) x E-4 |
| 2 (quadrupole) | (1.000000 ± 0.000008) | (-9.1 ± 0.6) x E-5 |
| 3 (sextupole) | (2.01 ± 0.04) x E-4 | (4.77 ± 0.04) x E-4 |
| 4 | (1.33 ± 0.04) x E-4 | (-4.8 ± 0.7) x E-5 |
| 5 | (1.5 ± 0.5) x E-5 | (-4.9 ± 0.8) x E-5 |
| 6 | (-8.49 ± 0.04) x E-4 | (8.3 ± 0.8) x E-5 |
| 7 | (6 ± 7) x E-6 | (-1.5 ± 0.7) x E-5 |
| 8 | (-5 ± 8) x E-6 | (-2 ± 5) x E-6 |
| 9 | (-2.0 ± 0.6) x E-5 | (9 ± 6) x E-6 |
| 10 | (1.685 ± 0.007) x E-3 | (-5.1 ± 0.6) x E-5 |
| 11 | (-2 ± 9) x E-6 | (1 ± 1) x E-5 |
| 12 | (5 ± 6) x E-6 | (6 ± 6) x E-6 |
| 13 | (9 ± 6) x E-6 | (-8 ± 9) x E-6 |
| 14 | (-7.19 ± 0.08) x E-4 | (3.0 ± 0.7) x E-5 |
| 15 | (-6 ± 9) x E-6 | (-1.3 ± 0.6) x E-5 |

