



Q20-046

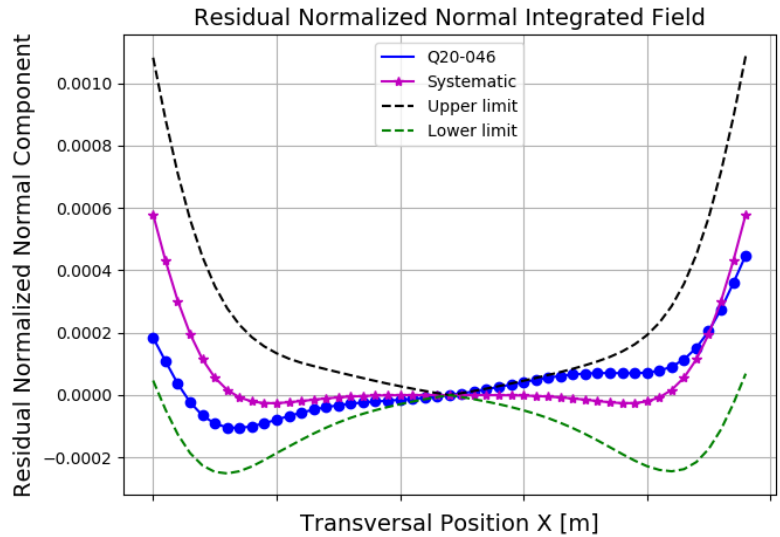
STORAGE RING MAGNET REPORT

Results

Date	18/06/2018
Hour	15:43:32
Temperature [°C]	23.75
Number of Measurements	9
Main Coil Current [A]	(157.3592 ± 0.0010)
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]	(-9.08011 ± 0.00006)
Magnet Center Offset X [μm] - (< ±40.0)	(11.01 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(-1.69 ± 0.06)
Roll [mrad] - (< ±0.3)	(1.09 ± 0.01) × E-1

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)	(-9.17 ± 0.02) × E-4	(1.41 ± 0.05) × E-4
2 (quadrupole)	(1.000000 ± 0.000009)	(2.18 ± 0.03) × E-4
3 (sextupole)	(1.23 ± 0.05) × E-4	(-4.92 ± 0.04) × E-4
4	(2.21 ± 0.03) × E-4	(-7.1 ± 0.6) × E-5
5	(1.3 ± 0.3) × E-5	(4.2 ± 0.5) × E-5
6	(-8.66 ± 0.03) × E-4	(9.4 ± 0.4) × E-5
7	(9 ± 5) × E-6	(4.3 ± 0.4) × E-5
8	(-1.2 ± 0.5) × E-5	(2 ± 8) × E-6
9	(-1.9 ± 0.4) × E-5	(-3 ± 7) × E-6
10	(1.677 ± 0.003) × E-3	(-4.4 ± 0.4) × E-5
11	(-10 ± 6) × E-6	(-1.4 ± 0.4) × E-5
12	(3 ± 5) × E-6	(2 ± 3) × E-6
13	(9 ± 5) × E-6	(1.0 ± 0.5) × E-5
14	(-7.07 ± 0.04) × E-4	(1.9 ± 0.6) × E-5
15	(7 ± 4) × E-6	(3 ± 3) × E-6

