



Q20-054

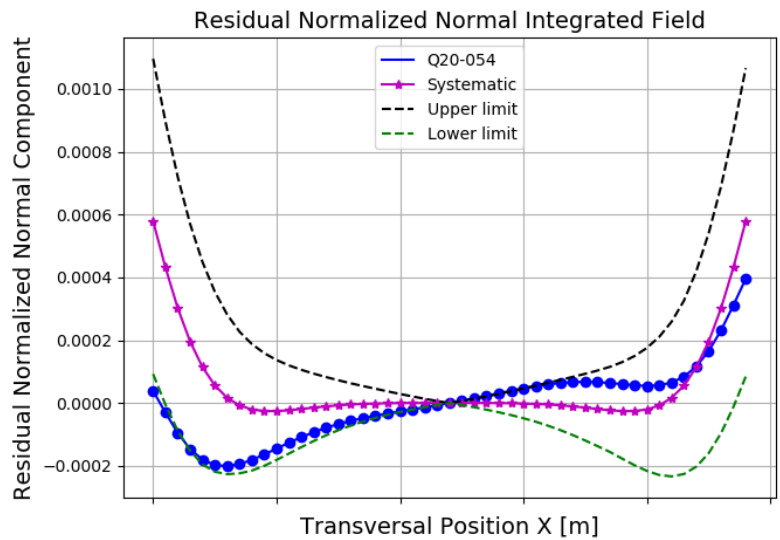
STORAGE RING MAGNET REPORT

Results

Date	22/05/2018
Hour	11:07:59
Temperature [°C]	22.83
Number of Measurements	9
Main Coil Current [A]	(157.5591 ± 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]	(-9.07442 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(3.69 ± 0.05)
Magnet Center Offset Y [μm] - (< ±40.0)	(2.7 ± 0.1)
Roll [mrad] - (< ±0.3)	(6.3 ± 0.5) × 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)	(-3.07 ± 0.04) × E-4	(-2.28 ± 0.09) × E-4
2 (quadrupole)	(1.000000 ± 0.000007)	(1.3 ± 0.1) × E-4
3 (sextupole)	(1.74 ± 0.02) × E-4	(1.59 ± 0.07) × E-4
4	(1.04 ± 0.04) × E-4	(-4.6 ± 0.9) × E-5
5	(5 ± 3) × E-6	(-3.9 ± 0.8) × E-5
6	(-8.55 ± 0.08) × E-4	(7.3 ± 0.6) × E-5
7	(8 ± 6) × E-6	(-1.6 ± 0.5) × E-5
8	(-4 ± 5) × E-6	(-9 ± 5) × E-6
9	(-3 ± 6) × E-6	(1.2 ± 0.6) × E-5
10	(1.662 ± 0.006) × E-3	(-4.4 ± 0.7) × E-5
11	(-9 ± 5) × E-6	(1 ± 1) × E-5
12	(7 ± 5) × E-6	(1.2 ± 0.8) × E-5
13	(-9.00 ± 588.79) × E-8	(-1.1 ± 0.8) × E-5
14	(-6.97 ± 0.06) × E-4	(8 ± 6) × E-6
15	(5 ± 7) × E-6	(-2 ± 1) × E-5

