



Q20-113

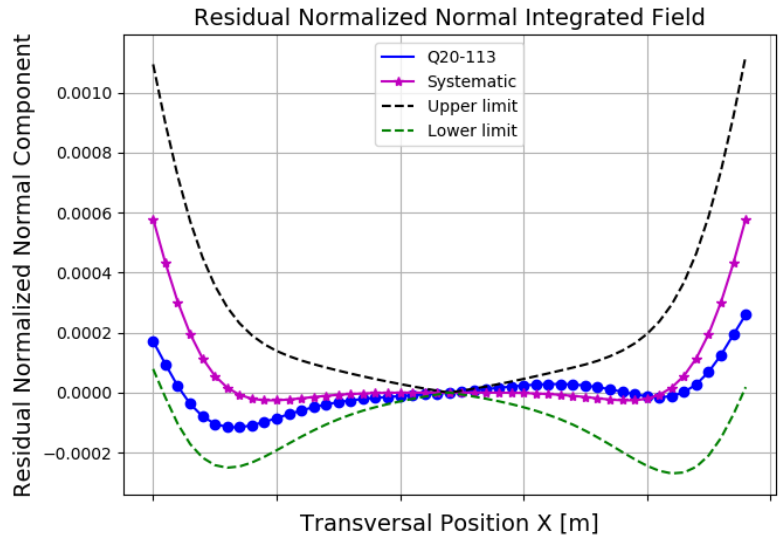
STORAGE RING MAGNET REPORT

Results

Date	04/06/2018
Hour	15:51:36
Temperature [°C]	22.98
Number of Measurements	9
Main Coil Current [A]	(157.3579 ± 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]	(-9.08743 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(9.76 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(7.76 ± 0.07)
Roll [mrad] - (< ±0.3)	(9.5 ± 0.3) × 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)	(-8.14 ± 0.02) × E-4	(-6.47 ± 0.05) × E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(1.90 ± 0.05) × E-4
3 (sextupole)	(8.4 ± 0.2) × E-5	(3.93 ± 0.06) × E-4
4	(1.01 ± 0.02) × E-4	(-4.5 ± 0.5) × E-5
5	(-2.4 ± 0.3) × E-5	(-2.8 ± 0.5) × E-5
6	(-8.39 ± 0.03) × E-4	(5.8 ± 0.5) × E-5
7	(-6 ± 3) × E-6	(-1.9 ± 0.5) × E-5
8	(3 ± 3) × E-6	(-5.0 ± 52.9) × E-7
9	(4.6 ± 52.0) × E-7	(-3 ± 5) × E-6
10	(1.671 ± 0.004) × E-3	(-3.0 ± 0.5) × E-5
11	(6 ± 7) × E-6	(1.0 ± 0.6) × E-5
12	(-1.0 ± 0.5) × E-5	(1.3 ± 0.5) × E-5
13	(-4 ± 3) × E-6	(10 ± 6) × E-6
14	(-7.11 ± 0.05) × E-4	(1.3 ± 0.4) × E-5
15	(-1.3 ± 0.4) × E-5	(-10 ± 6) × E-6

