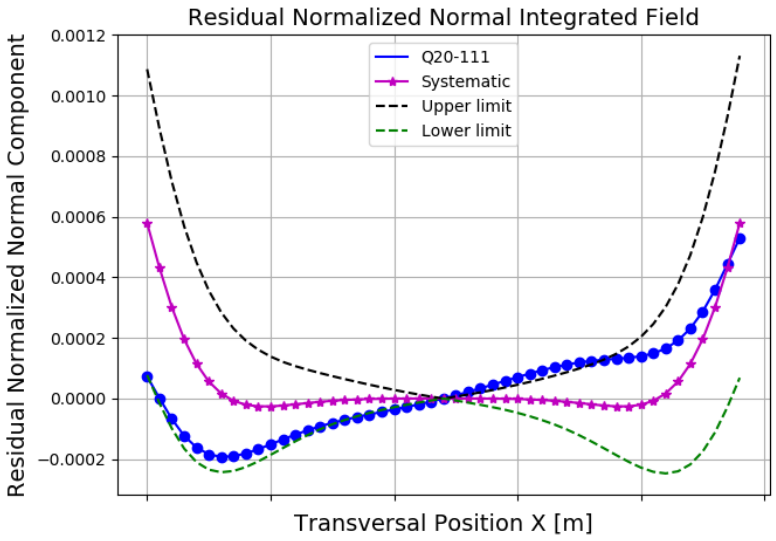
Q20-111

STORAGE RING MAGNET REPORT

Results	
Date	11/06/2018
Hour	10:03:12
Temperature [°C]	23.01
Number of Measurements	9
Main Coil Current [A]	(157.361 ± 0.003)
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]	(-9.09306 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(2.2 ± 0.4) x E-1
Magnet Center Offset Y [μm] - (< ±40.0)	(5.19 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.688 ± 0.009) x E-1
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)	(-1.8 ± 0.3) x E-5	(-4.32 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(3.38 ± 0.02) x E-4
3 (sextupole)	(2.47 ± 0.04) x E-4	(1.54 ± 0.05) x E-4
4	(1.98 ± 0.05) x E-4	(-4.6 ± 0.6) x E-5
5	(-1.3 ± 0.4) x E-5	(-3.9 ± 0.5) x E-5
6	(-8.52 ± 0.06) x E-4	(5.6 ± 0.6) x E-5
7	(-2 ± 4) x E-6	(3 ± 8) x E-6
8	(-5 ± 5) x E-6	(6 ± 9) x E-6
9	(-4 ± 6) x E-6	(-2 ± 7) x E-6
10	(1.674 ± 0.006) x E-3	(-10 ± 7) x E-6
11	(-2 ± 6) x E-6	(2 ± 5) x E-6
12	(7 ± 5) x E-6	(3 ± 4) x E-6
13	(5 ± 7) x E-6	(4 ± 6) x E-6
14	(-7.21 ± 0.05) x E-4	(-1.2 ± 0.7) x E-5
15	(-3 ± 5) x E-6	(-10 ± 3) x E-6