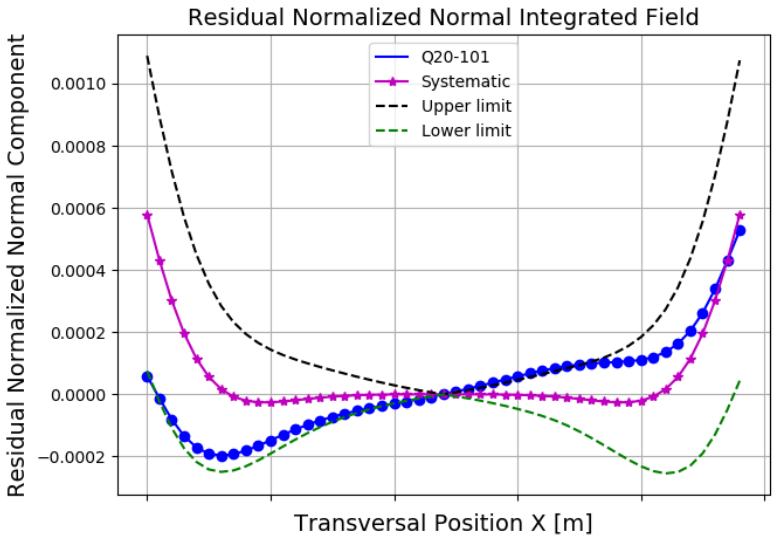
Q20-101

STORAGE RING MAGNET REPORT

Results	
Date	05/06/2018
Hour	09:11:38
Temperature [°C]	23.11
Number of Measurements	9
Main Coil Current [A]	(157.5173 ± 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]	(-9.08948 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(10.16 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(4.36 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.84 ± 0.02) 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)	(-8.47 ± 0.02) x E-4	(-3.63 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(3.68 ± 0.03) x E-4
3 (sextupole)	(2.03 ± 0.02) x E-4	(2.31 ± 0.03) x E-4
4	(1.52 ± 0.03) x E-4	(-2.9 ± 0.3) x E-5
5	(4.4 ± 0.2) x E-5	(-2.9 ± 0.4) x E-5
6	(-8.15 ± 0.01) x E-4	(7.1 ± 0.3) x E-5
7	(-9 ± 3) x E-6	(-2 ± 3) x E-6
8	(-1.6 ± 0.3) x E-5	(2 ± 4) x E-6
9	(-2.4 ± 0.4) x E-5	(-8.4 ± 22.7) x E-7
10	(1.655 ± 0.003) x E-3	(-3.6 ± 0.4) x E-5
11	(9 ± 4) x E-6	(-7 ± 5) x E-6
12	(1.2 ± 0.4) x E-5	(-3 ± 3) x E-6
13	(1.8 ± 0.4) x E-5	(2 ± 3) x E-6
14	(-6.96 ± 0.03) x E-4	(7 ± 4) x E-6
15	(-6 ± 4) x E-6	(8 ± 5) x E-6