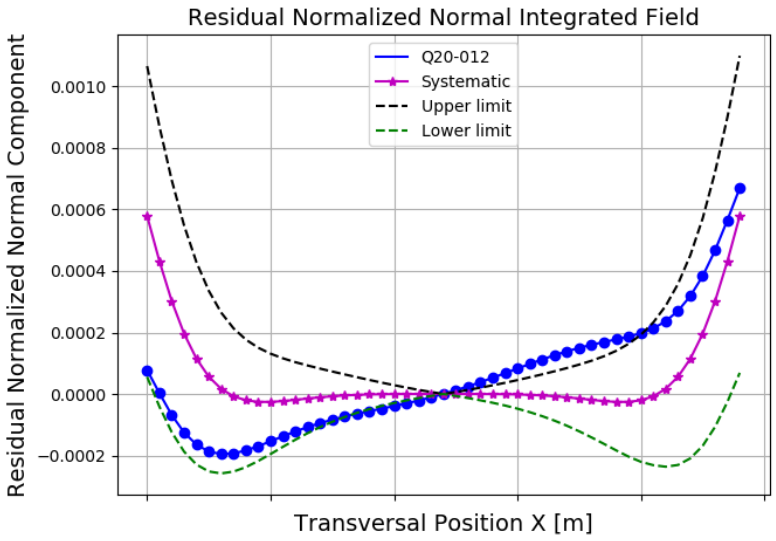
Q20-012

STORAGE RING MAGNET REPORT

Results	
Date	13/06/2018
Hour	09:53:43
Temperature [°C]	22.58
Number of Measurements	9
Main Coil Current [A]	(157.4381 ± 0.0004)
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]	(-9.10805 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(3.83 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(5.0 ± 0.4) x E-1
Roll [mrad] - (< ±0.3)	(2.34 ± 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)	(-3.20 ± 0.01) x E-4	(-4.1 ± 0.4) x E-5
2 (quadrupole)	(1.000000 ± 0.000006)	(4.68 ± 0.05) x E-4
3 (sextupole)	(2.76 ± 0.04) x E-4	(3.7 ± 0.5) x E-5
4	(2.69 ± 0.04) x E-4	(-5 ± 3) x E-6
5	(2.4 ± 0.4) x E-5	(-2.4 ± 0.4) x E-5
6	(-8.70 ± 0.03) x E-4	(9.1 ± 0.6) x E-5
7	(1 ± 4) x E-6	(6 ± 3) x E-6
8	(-1.4 ± 0.4) x E-5	(-2 ± 4) x E-6
9	(-1.2 ± 0.4) x E-5	(-3 ± 3) x E-6
10	(1.686 ± 0.004) x E-3	(-3.7 ± 0.5) x E-5
11	(-4 ± 4) x E-6	(3.1 ± 59.2) x E-7
12	(5 ± 5) x E-6	(8 ± 6) x E-6
13	(6 ± 4) x E-6	(4 ± 5) x E-6
14	(-7.03 ± 0.04) x E-4	(1.9 ± 0.5) x E-5
15	(5 ± 6) x E-6	(1 ± 6) x E-6