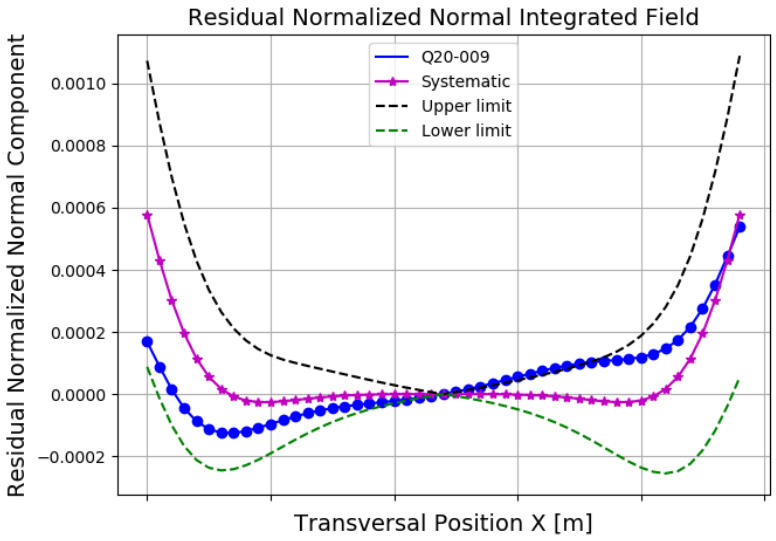
Q20-009

STORAGE RING MAGNET REPORT

Results	
Date	12/06/2018
Hour	16:34:05
Temperature [°C]	22.4
Number of Measurements	9
Main Coil Current [A]	(157.4382 ± 0.0006)
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]	(-9.10085 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(2.95 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(-1.99 ± 0.05)
Roll [mrad] - (< ±0.3)	(9.2 ± 0.3) x E-2
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)	(-2.46 ± 0.02) x E-4	(1.66 ± 0.04) x E-4
2 (quadrupole)	(1.000000 ± 0.000007)	(1.83 ± 0.05) x E-4
3 (sextupole)	(1.70 ± 0.04) x E-4	(-1.29 ± 0.05) x E-4
4	(2.57 ± 0.04) x E-4	(-3.0 ± 0.3) x E-5
5	(1.8 ± 0.4) x E-5	(6 ± 6) x E-6
6	(-8.81 ± 0.05) x E-4	(7.9 ± 0.3) x E-5
7	(3 ± 5) x E-6	(1.6 ± 0.4) x E-5
8	(-1.4 ± 0.4) x E-5	(-2 ± 7) x E-6
9	(-7 ± 3) x E-6	(-1 ± 5) x E-6
10	(1.692 ± 0.004) x E-3	(-2.9 ± 0.4) x E-5
11	(2 ± 5) x E-6	(-4 ± 6) x E-6
12	(9 ± 7) x E-6	(7 ± 4) x E-6
13	(2 ± 4) x E-6	(-2.3 ± 53.3) x E-7
14	(-7.11 ± 0.07) x E-4	(1.3 ± 0.6) x E-5
15	(-4 ± 4) x E-6	(5.1 ± 44.3) x E-7