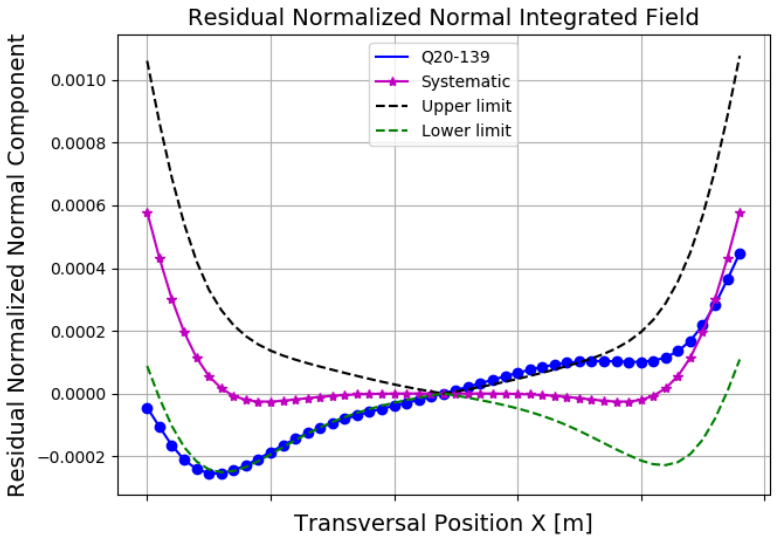
Q20-139

STORAGE RING MAGNET REPORT

Results	
Date	08/06/2018
Hour	10:26:21
Temperature [°C]	23.11
Number of Measurements	9
Main Coil Current [A]	(157.3588 ± 0.0007)
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]	(-9.09087 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(1.47 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(4.2 ± 0.5) x E-1
Roll [mrad] - (< ±0.3)	(4.1 ± 0.2) 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)	(-1.22 ± 0.02) x E-4	(-3.5 ± 0.4) x E-5
2 (quadrupole)	(1.000000 ± 0.000002)	(8.2 ± 0.3) x E-5
3 (sextupole)	(2.49 ± 0.02) x E-4	(6.6 ± 0.4) x E-5
4	(1.10 ± 0.03) x E-4	(-2.6 ± 0.4) x E-5
5	(-3 ± 3) x E-6	(3.6 ± 0.5) x E-5
6	(-8.66 ± 0.03) x E-4	(1.07 ± 0.06) x E-4
7	(3 ± 3) x E-6	(-1.4 ± 0.5) x E-5
8	(-1.4 ± 0.2) x E-5	(-1.3 ± 0.4) x E-5
9	(-7 ± 2) x E-6	(-9 ± 4) x E-6
10	(1.661 ± 0.003) x E-3	(-5.7 ± 0.5) x E-5
11	(-6 ± 4) x E-6	(1.5 ± 0.4) x E-5
12	(1.9 ± 0.4) x E-5	(1.8 ± 0.4) x E-5
13	(3 ± 4) x E-6	(-5 ± 3) x E-6
14	(-7.08 ± 0.04) x E-4	(1.9 ± 0.8) x E-5
15	(8 ± 4) x E-6	(-2.1 ± 0.3) x E-5