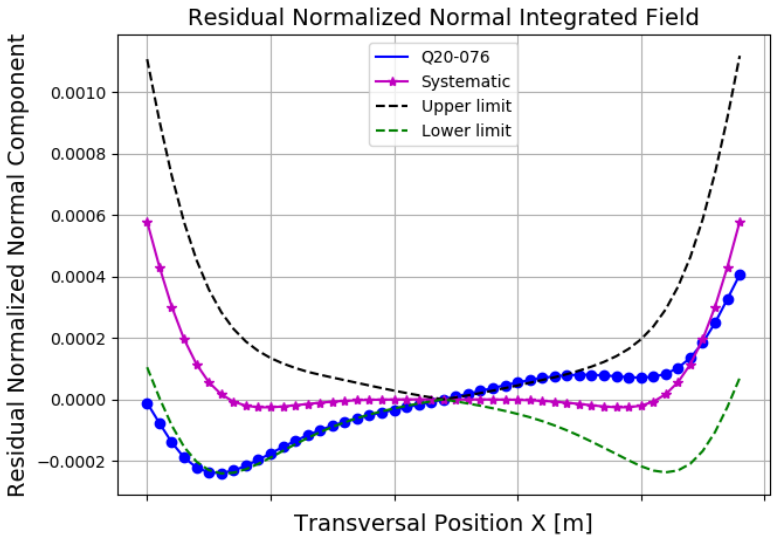
Q20-076

STORAGE RING MAGNET REPORT

Results	
Date	17/05/2018
Hour	16:49:45
Temperature [°C]	23.47
Number of Measurements	9
Main Coil Current [A]	(157.4369 ± 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]	(-9.08237 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(11.43 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(5 ± 1) x E-1
Roll [mrad] - (< ±0.3)	(-1.76 ± 0.05) 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)	(-9.52 ± 0.02) x E-4	(-4.5 ± 0.9) x E-5
2 (quadrupole)	(1.000000 ± 0.000004)	(-3.52 ± 0.10) x E-4
3 (sextupole)	(2.14 ± 0.05) x E-4	(1.73 ± 0.09) x E-4
4	(7.6 ± 0.3) x E-5	(-8.1 ± 0.7) x E-5
5	(6 ± 4) x E-6	(-1.0 ± 0.6) x E-5
6	(-8.42 ± 0.06) x E-4	(9.2 ± 0.5) x E-5
7	(4 ± 7) x E-6	(-4 ± 10) x E-6
8	(-7 ± 4) x E-6	(-2.1 ± 0.8) x E-5
9	(-1.6 ± 0.8) x E-5	(4 ± 10) x E-6
10	(1.688 ± 0.005) x E-3	(-5.8 ± 0.9) x E-5
11	(-2 ± 6) x E-6	(9 ± 7) x E-6
12	(4 ± 5) x E-6	(1.7 ± 0.6) x E-5
13	(7 ± 8) x E-6	(6.4 ± 59.5) x E-7
14	(-7.22 ± 0.05) x E-4	(3.6 ± 0.4) x E-5
15	(-4 ± 8) x E-6	(-8 ± 8) x E-6