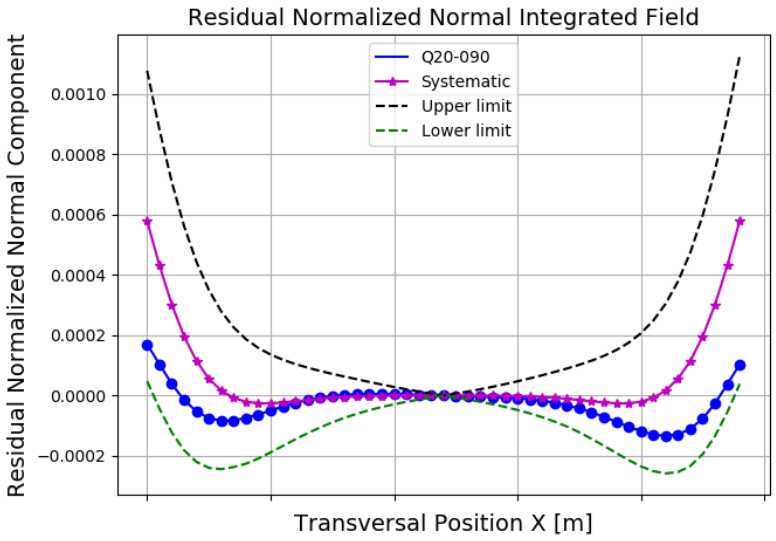
Q20-090

STORAGE RING MAGNET REPORT

Results	
Date	04/06/2018
Hour	12:32:14
Temperature [°C]	23.09
Number of Measurements	9
Main Coil Current [A]	(157.4374 ± 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]	(-9.08513 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(12.50 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(-7 ± 10) x E-2
Roll [mrad] - (< ±0.3)	(9.5 ± 0.4) 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)	(-1.042 ± 0.002) x E-3	(6 ± 8) x E-6
2 (quadrupole)	(1.000000 ± 0.000006)	(1.90 ± 0.08) x E-4
3 (sextupole)	(-2.8 ± 0.3) x E-5	(1.0 ± 0.6) x E-5
4	(2.4 ± 0.5) x E-5	(-3.2 ± 0.6) x E-5
5	(-1.5 ± 0.3) x E-5	(-1.5 ± 0.7) x E-5
6	(-8.45 ± 0.04) x E-4	(4.5 ± 0.8) x E-5
7	(1.2 ± 0.6) x E-5	(1.3 ± 0.8) x E-5
8	(1 ± 8) x E-6	(-2 ± 5) x E-6
9	(-6 ± 3) x E-6	(-2 ± 4) x E-6
10	(1.675 ± 0.006) x E-3	(-1.7 ± 0.5) x E-5
11	(-9 ± 7) x E-6	(-6 ± 6) x E-6
12	(-5 ± 5) x E-6	(1.1 ± 0.7) x E-5
13	(6 ± 4) x E-6	(4 ± 5) x E-6
14	(-7.14 ± 0.09) x E-4	(3 ± 7) x E-6
15	(7 ± 6) x E-6	(3 ± 6) x E-6