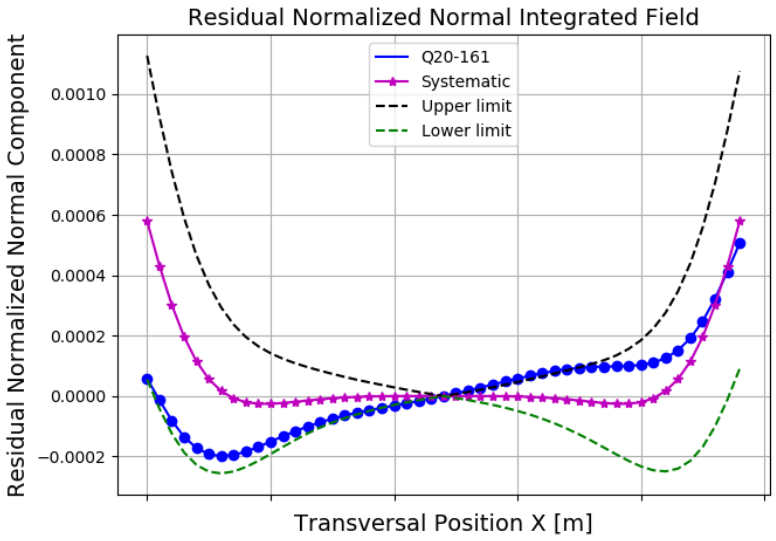
Q20-161

STORAGE RING MAGNET REPORT

Results	
Date	15/05/2018
Hour	11:35:09
Temperature [°C]	23.49
Number of Measurements	9
Main Coil Current [A]	(157.5582 ± 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]	(-9.09013 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(8.60 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(6.31 ± 0.05)
Roll [mrad] - (< ±0.3)	(-5.6 ± 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)	(-7.17 ± 0.01) x E-4	(-5.26 ± 0.04) x E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(-1.13 ± 0.03) x E-4
3 (sextupole)	(2.09 ± 0.03) x E-4	(1.91 ± 0.05) x E-4
4	(1.39 ± 0.02) x E-4	(-7 ± 2) x E-6
5	(1.4 ± 0.2) x E-5	(-1.3 ± 0.4) x E-5
6	(-8.18 ± 0.02) x E-4	(1.28 ± 0.04) x E-4
7	(6 ± 4) x E-6	(4 ± 4) x E-6
8	(3 ± 6) x E-6	(-7 ± 3) x E-6
9	(-7 ± 4) x E-6	(-1.4 ± 0.4) x E-5
10	(1.657 ± 0.002) x E-3	(-8.1 ± 0.4) x E-5
11	(-1.2 ± 0.5) x E-5	(-10 ± 3) x E-6
12	(-7 ± 5) x E-6	(1.1 ± 0.4) x E-5
13	(4 ± 4) x E-6	(10 ± 3) x E-6
14	(-6.92 ± 0.03) x E-4	(3.0 ± 0.3) x E-5
15	(1.0 ± 0.4) x E-5	(7 ± 4) x E-6