

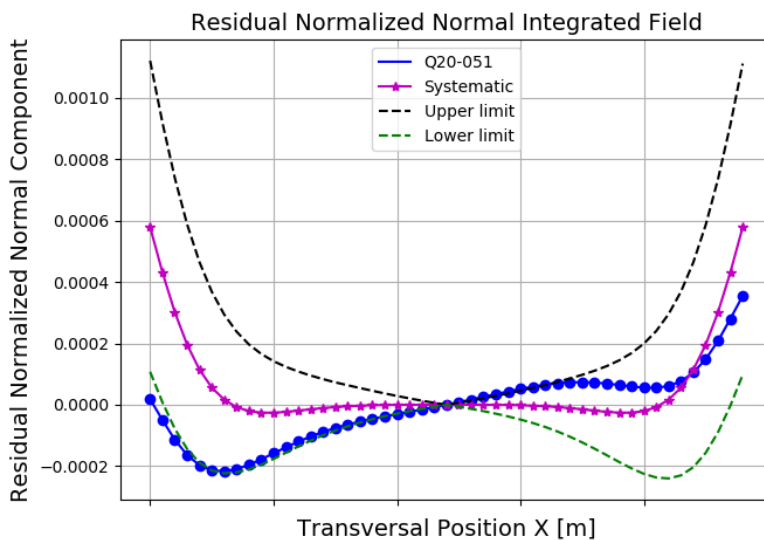


Q20-051

STORAGE RING MAGNET REPORT

Results

Date	23/05/2018
Hour	09:47:03
Temperature [°C]	23.07
Number of Measurements	9
Main Coil Current [A]	(157.4385 ± 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]	(-9.06555 ± 0.00005)
Magnet Center Offset X [μm] - (< ±40.0)	(8.91 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(7.53 ± 0.03)
Roll [mrad] - (< ±0.3)	(1.49 ± 0.02) x E-1
Electric Parameters	
Inductance [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⁾]
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1 (dipole)	(-7.43 ± 0.03) x E-4	(-6.28 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000008)	(2.98 ± 0.03) x E-4
3 (sextupole)	(1.96 ± 0.02) x E-4	(1.80 ± 0.03) x E-4
4	(9.9 ± 0.3) x E-5	(-1.7 ± 0.2) x E-5
5	(-1.2 ± 0.3) x E-5	(-2.8 ± 0.3) x E-5
6	(-8.77 ± 0.04) x E-4	(6.1 ± 0.3) x E-5
7	(-9 ± 3) x E-6	(-5 ± 2) x E-6
8	(-2 ± 4) x E-6	(-7 ± 2) x E-6
9	(-1.1 ± 0.4) x E-5	(-4 ± 2) x E-6
10	(1.668 ± 0.004) x E-3	(-2.6 ± 0.3) x E-5
11	(2 ± 3) x E-6	(3 ± 3) x E-6
12	(-2.4 ± 30.6) x E-7	(9 ± 3) x E-6
13	(6 ± 4) x E-6	(6 ± 4) x E-6
14	(-7.00 ± 0.05) x E-4	(2 ± 4) x E-6
15	(-4 ± 4) x E-6	(-3 ± 3) x E-6

