



Q20-121

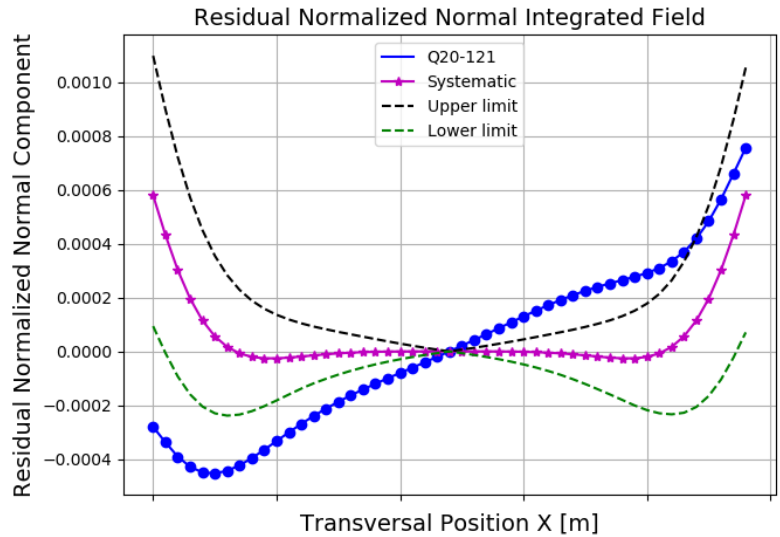
STORAGE RING MAGNET REPORT

Results

Date	18/05/2018
Hour	11:20:46
Temperature [°C]	23.58
Number of Measurements	9
Main Coil Current [A]	(157.4369 ± 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]	(-9.09005 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(-8.68 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(2.93 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.645 ± 0.009) × 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⁾]
1 (dipole)	(7.24 ± 0.03) × E-4	(-2.44 ± 0.03) × E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(3.29 ± 0.02) × E-4
3 (sextupole)	(4.97 ± 0.03) × E-4	(-1.03 ± 0.05) × E-4
4	(1.30 ± 0.02) × E-4	(-1.9 ± 0.4) × E-5
5	(5.4 ± 0.3) × E-5	(-2.7 ± 0.5) × E-5
6	(-8.56 ± 0.03) × E-4	(9.6 ± 0.3) × E-5
7	(-2.6 ± 0.5) × E-5	(2 ± 5) × E-6
8	(-1.2 ± 0.5) × E-5	(-3 ± 5) × E-6
9	(-2 ± 6) × E-6	(4 ± 5) × E-6
10	(1.673 ± 0.006) × E-3	(-5.7 ± 0.3) × E-5
11	(4 ± 6) × E-6	(-1.2 ± 50.1) × E-7
12	(9 ± 3) × E-6	(5 ± 5) × E-6
13	(-4 ± 8) × E-6	(-7 ± 4) × E-6
14	(-7.06 ± 0.05) × E-4	(2.8 ± 0.4) × E-5
15	(-5 ± 4) × E-6	(4 ± 5) × E-6

