



Q20-015

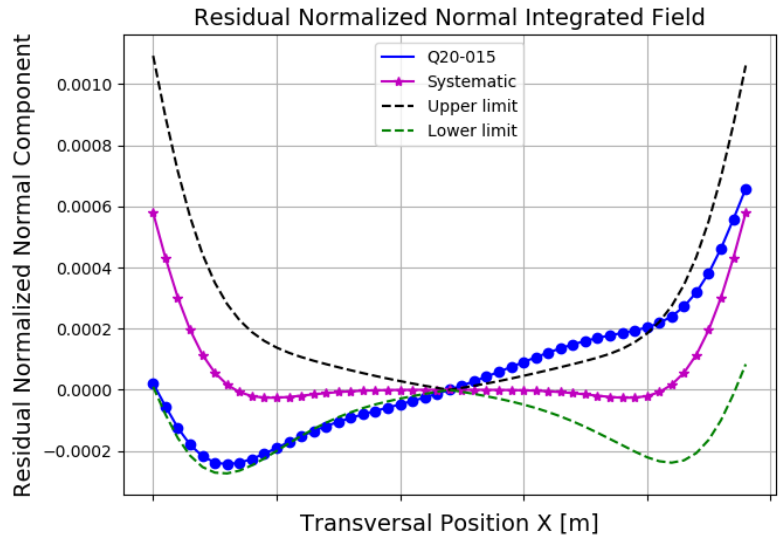
STORAGE RING MAGNET REPORT

Results

Date	15/06/2018
Hour	10:27:43
Temperature [°C]	23.57
Number of Measurements	9
Main Coil Current [A]	(157.438 ± 0.001)
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]	(-9.09935 ± 0.00006)
Magnet Center Offset X [μm] - (< ±40.0)	(3.30 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(3.92 ± 0.07)
Roll [mrad] - (< ±0.3)	(3.0 ± 0.3) × E-2

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)	(-2.75 ± 0.03) × E-4	(-3.27 ± 0.05) × E-4
2 (quadrupole)	(1.000000 ± 0.000009)	(6.0 ± 0.6) × E-5
3 (sextupole)	(3.19 ± 0.04) × E-4	(2.33 ± 0.06) × E-4
4	(2.29 ± 0.06) × E-4	(-1.9 ± 0.4) × E-5
5	(1.4 ± 0.4) × E-5	(-1.6 ± 0.4) × E-5
6	(-8.76 ± 0.06) × E-4	(1.37 ± 0.06) × E-4
7	(-8 ± 8) × E-6	(-7 ± 8) × E-6
8	(-1.0 ± 0.6) × E-5	(1 ± 8) × E-6
9	(-6 ± 8) × E-6	(-2 ± 9) × E-6
10	(1.707 ± 0.003) × E-3	(-4.8 ± 0.5) × E-5
11	(-7.5 ± 10.9) × E-6	(-8.6 ± 52.1) × E-7
12	(8 ± 6) × E-6	(-2 ± 7) × E-6
13	(2.1 ± 54.3) × E-7	(4 ± 5) × E-6
14	(-7.17 ± 0.04) × E-4	(2.5 ± 0.9) × E-5
15	(7 ± 10) × E-6	(8.0 ± 79.9) × E-7

