



Q14-030

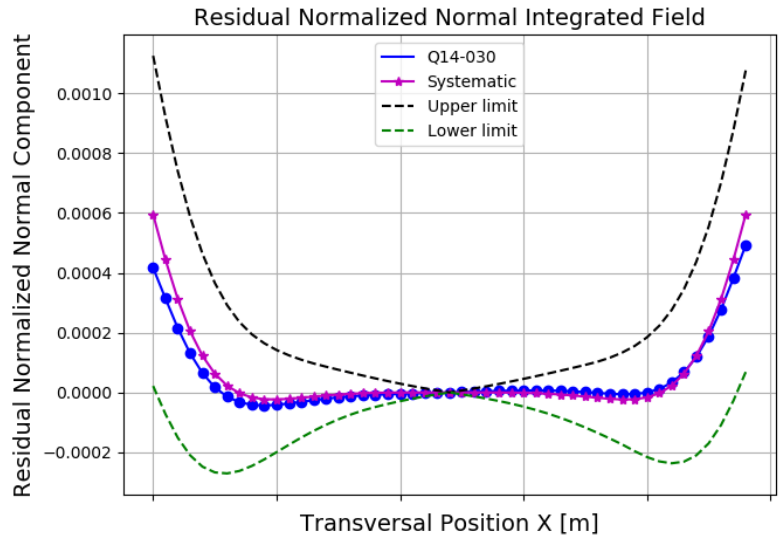
STORAGE RING MAGNET REPORT

Results

Date	12/04/2018
Hour	15:27:27
Temperature [°C]	23.7
Number of Measurements	9
Main Coil Current [A]	(147.994 ± 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]	(-5.23604 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(6.99 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(4.8 ± 0.1)
Roll [mrad] - (< ±0.3)	(-4.20 ± 0.04) × E-1

Electric Parameters

Inductance [mH]	4.781
Voltage [V]	4.4843
Resistance [mΩ]	30.3
Main Coil Number of Turns	20.0



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)	(-5.83 ± 0.03) × E-4	(-4.0 ± 0.1) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(-8.41 ± 0.08) × E-4
3 (sextupole)	(2.9 ± 0.3) × E-5	(3.1 ± 1.0) × E-5
4	(1.4 ± 0.5) × E-5	(-4.7 ± 0.8) × E-5
5	(4 ± 4) × E-6	(-5.2 ± 0.7) × E-5
6	(-4.16 ± 0.03) × E-4	(5 ± 1) × E-5
7	(4 ± 4) × E-6	(7 ± 8) × E-6
8	(-7.5 ± 59.6) × E-7	(1 ± 7) × E-6
9	(-5 ± 4) × E-6	(4 ± 7) × E-6
10	(1.548 ± 0.004) × E-3	(-2.1 ± 0.6) × E-5
11	(-5 ± 4) × E-6	(-5 ± 7) × E-6
12	(-2 ± 4) × E-6	(3 ± 7) × E-6
13	(8 ± 4) × E-6	(-2 ± 8) × E-6
14	(-6.88 ± 0.06) × E-4	(-3 ± 9) × E-6
15	(3 ± 6) × E-6	(-1 ± 5) × E-6

