



Q14-053

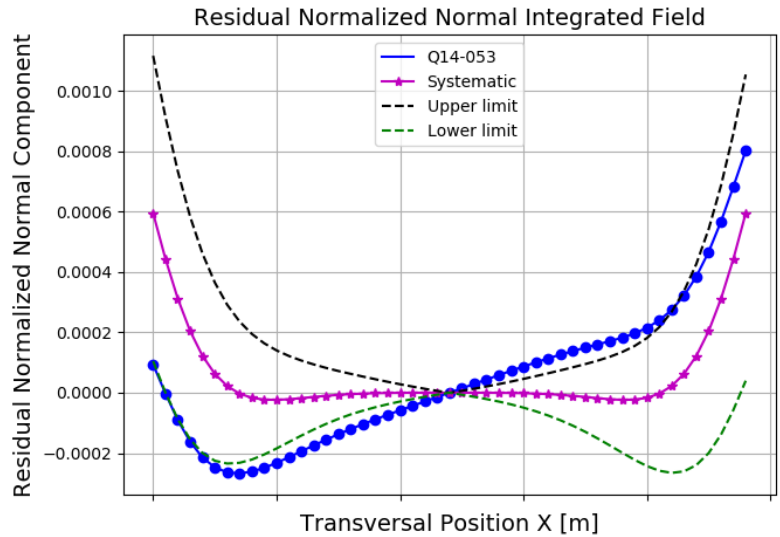
STORAGE RING MAGNET REPORT

Results

Date	12/04/2018
Hour	13:04:27
Temperature [°C]	23.7
Number of Measurements	9
Main Coil Current [A]	(147.9955 ± 0.0005)
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]	(-5.23449 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(-1.77 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(7.82 ± 0.04)
Roll [mrad] - (< ±0.3)	(-3.74 ± 0.02) x 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)	(1.47 ± 0.02) x E-4	(-6.52 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(-7.47 ± 0.04) x E-4
3 (sextupole)	(3.49 ± 0.02) x E-4	(2.34 ± 0.04) x E-4
4	(1.7 ± 0.5) x E-5	(4 ± 5) x E-6
5	(2.5 ± 0.4) x E-5	(-1.0 ± 0.4) x E-5
6	(-4.30 ± 0.04) x E-4	(4.8 ± 0.5) x E-5
7	(-1.5 ± 0.5) x E-5	(-10 ± 4) x E-6
8	(-5 ± 5) x E-6	(-6 ± 6) x E-6
9	(4 ± 5) x E-6	(-6 ± 5) x E-6
10	(1.542 ± 0.003) x E-3	(-2.4 ± 0.6) x E-5
11	(9 ± 2) x E-6	(2 ± 6) x E-6
12	(3 ± 5) x E-6	(8 ± 5) x E-6
13	(-7 ± 6) x E-6	(8 ± 4) x E-6
14	(-6.78 ± 0.04) x E-4	(-6 ± 5) x E-6
15	(-10 ± 3) x E-6	(-6.2 ± 48.9) x E-7

