



Q14-077

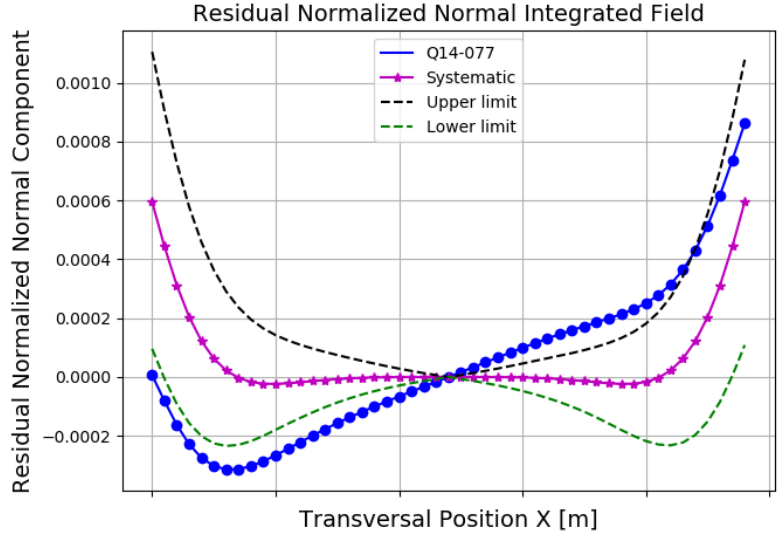
STORAGE RING MAGNET REPORT

Results

Date	05/04/2018
Hour	17:17:13
Temperature [°C]	23.7
Number of Measurements	9
Main Coil Current [A]	(147.9954 ± 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]	(-5.24395 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(-1.66 ± 0.06)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.69 ± 0.05)
Roll [mrad] - (< ±0.3)	(-5.30 ± 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)	(1.38 ± 0.05) x E-4	(-1.41 ± 0.04) x E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(-1.060 ± 0.003) x E-3
3 (sextupole)	(3.96 ± 0.03) x E-4	(-1.4 ± 0.4) x E-5
4	(1.9 ± 0.3) x E-5	(2.0 ± 0.3) x E-5
5	(4.8 ± 0.3) x E-5	(-5 ± 4) x E-6
6	(-4.52 ± 0.03) x E-4	(1.8 ± 0.2) x E-5
7	(-1.1 ± 0.3) x E-5	(-2 ± 4) x E-6
8	(-5 ± 3) x E-6	(-1.7 ± 0.3) x E-5
9	(-1 ± 3) x E-6	(-9 ± 4) x E-6
10	(1.545 ± 0.004) x E-3	(-1.7 ± 0.6) x E-5
11	(-2 ± 3) x E-6	(3 ± 4) x E-6
12	(3 ± 3) x E-6	(1.2 ± 0.4) x E-5
13	(-3.0 ± 47.7) x E-7	(8 ± 4) x E-6
14	(-6.76 ± 0.06) x E-4	(-1 ± 2) x E-6
15	(-1 ± 5) x E-6	(-4.3 ± 54.6) x E-7

