



Q14-076

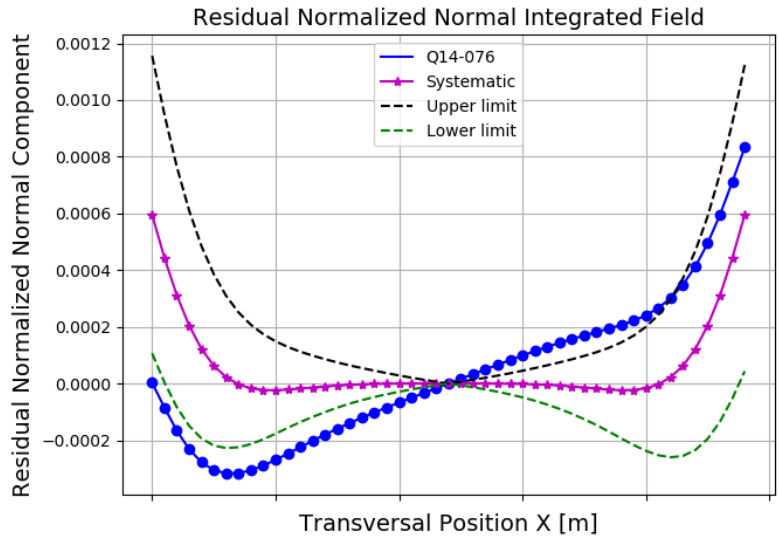
## STORAGE RING MAGNET REPORT

### Results

Date	05/04/2018
Hour	16:44:00
Temperature [°C]	23.8
Number of Measurements	9
Main Coil Current [A]	(147.9949 ± 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]	(-5.23682 ± 0.00001)
Magnet Center Offset X [μm] - (< ±40.0)	(-8.13 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(3.72 ± 0.05)
Roll [mrad] - (< ±0.3)	(-4.54 ± 0.02) × 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(6.78 ± 0.02) × E-4	(-3.10 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(-9.08 ± 0.05) × E-4
3 (sextupole)	(4.00 ± 0.03) × E-4	(9.0 ± 0.5) × E-5
4	(5 ± 2) × E-6	(-5.5 ± 0.3) × E-5
5	(2.7 ± 0.3) × E-5	(-3.5 ± 0.4) × E-5
6	(-4.53 ± 0.03) × E-4	(1.9 ± 0.4) × E-5
7	(-1.5 ± 0.3) × E-5	(1.4 ± 0.4) × E-5
8	(2.7 ± 29.4) × E-7	(4 ± 4) × E-6
9	(10 ± 3) × E-6	(1.5 ± 0.4) × E-5
10	(1.541 ± 0.002) × E-3	(-1.3 ± 0.4) × E-5
11	(2 ± 3) × E-6	(-5 ± 5) × E-6
12	(9.6 ± 36.9) × E-7	(6 ± 4) × E-6
13	(-5 ± 4) × E-6	(-3 ± 3) × E-6
14	(-6.76 ± 0.04) × E-4	(-5 ± 5) × E-6
15	(-4 ± 5) × E-6	(2 ± 5) × E-6

