



# Q20-004

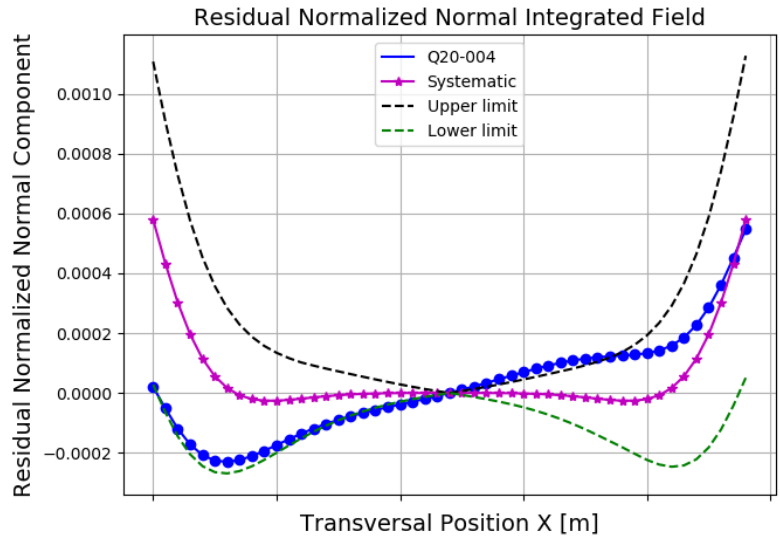
## STORAGE RING MAGNET REPORT

### Results

Date	12/06/2018
Hour	10:06:55
Temperature [°C]	22.76
Number of Measurements	9
Main Coil Current [A]	(157.519 ± 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]	(-9.09558 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(-8.81 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(8.8 ± 0.3) × E-1
Roll [mrad] - (< ±0.3)	(3.9 ± 0.1) × 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(7.34 ± 0.03) × E-4	(-7.3 ± 0.2) × E-5
2 (quadrupole)	(1.000000 ± 0.000005)	(7.7 ± 0.3) × E-5
3 (sextupole)	(2.52 ± 0.02) × E-4	(-1.90 ± 0.03) × E-4
4	(1.54 ± 0.03) × E-4	(-6.1 ± 0.3) × E-5
5	(1.2 ± 0.3) × E-5	(2.1 ± 0.3) × E-5
6	(-8.49 ± 0.03) × E-4	(5.0 ± 0.4) × E-5
7	(-3 ± 3) × E-6	(1.0 ± 0.4) × E-5
8	(-2 ± 5) × E-6	(-5 ± 5) × E-6
9	(7 ± 3) × E-6	(-9 ± 4) × E-6
10	(1.685 ± 0.003) × E-3	(-1.7 ± 0.5) × E-5
11	(-2 ± 3) × E-6	(-3 ± 3) × E-6
12	(-2 ± 2) × E-6	(1.2 ± 0.4) × E-5
13	(-5 ± 4) × E-6	(4 ± 4) × E-6
14	(-7.03 ± 0.03) × E-4	(4 ± 4) × E-6
15	(2 ± 3) × E-6	(2 ± 3) × E-6

