



Q20-002

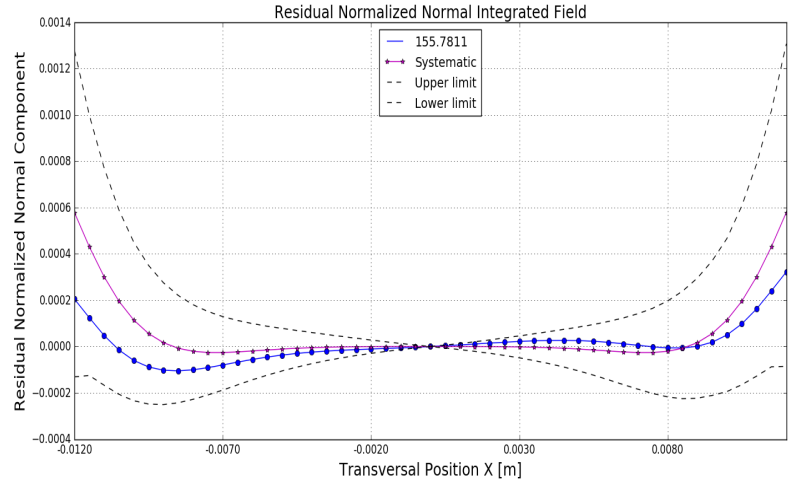
## STORAGE RING MAGNET REPORT

### Results

Date	23/05/2017
Hour	09:00:32
Temperature [°C]	24.0
Number of Measurements	17
Main Coil Current [A]	(155.7811 ± 0.0009)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-9.0814 ± 0.0003)
Magnet Center Offset X [μm] - (< ±30.0)	(-7.5 ± 0.6)
Magnet Center Offset Y [μm] - (< ±30.0)	(-3.8 ± 0.5)
Roll [mrad] - (< ±0.2)	(-6 ± 1) × E-2

### Electric Parameters

Inductance [mH]	9.263
Voltage [V]	3.407
Main Coil Maximum Current [A]	155.7811
Main Coil Number of Turns	23.5



n	Normalized Normal Multipoles x=0.0 mm [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=0.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-6.3 ± 0.5) × E-4	(-3.2 ± 0.4) × E-4
2 (quadrupole)	(1.00000 ± 0.00003)	(-1.2 ± 0.2) × E-4
3 (sextupole)	(8 ± 3) × E-5	(-2 ± 2) × E-5
4	(10 ± 2) × E-5	(6 ± 1) × E-5
5	(-1 ± 1) × E-5	(6 ± 1) × E-5
6	(-7.8 ± 0.1) × E-4	(10 ± 2) × E-5
7	(-9.07 ± 126.31) × E-7	(-5.3 ± 17.5) × E-6
8	(-9 ± 9) × E-6	(-2 ± 1) × E-5
9	(-1 ± 2) × E-5	(-9.4 ± 14.9) × E-6
10	(1.67 ± 0.01) × E-3	(-3 ± 2) × E-5
11	(1 ± 8) × E-6	(-1 ± 1) × E-5
12	(7.5 ± 13.0) × E-6	(2 ± 9) × E-6
13	(3 ± 9) × E-6	(3.7 ± 14.0) × E-6
14	(-7.15 ± 0.06) × E-4	(3.4 ± 14.1) × E-6
15	(1.93 ± 109.77) × E-7	(6.4 ± 12.3) × E-6

