



Q30-003

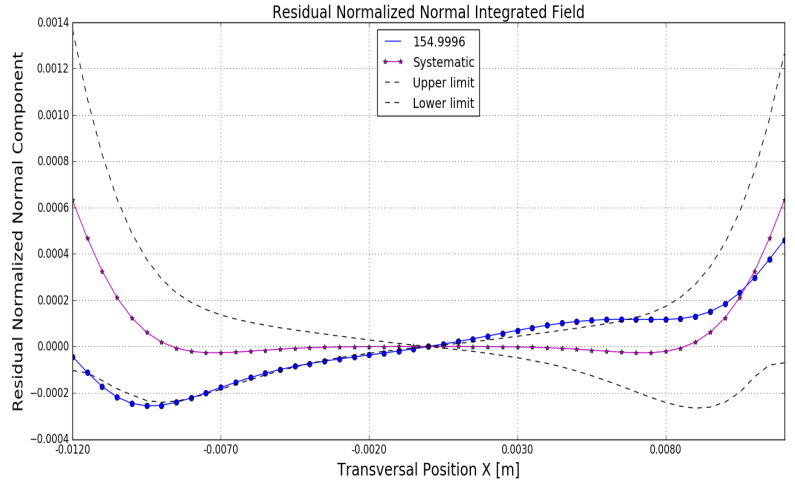
## STORAGE RING MAGNET REPORT

### Results

Date	23/05/2017
Hour	15:20:35
Temperature [°C]	24.0
Number of Measurements	17
Main Coil Current [A]	(154.9996 ± 0.0010)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-13.7288 ± 0.0003)
Magnet Center Offset X [μm] - (< ±30.0)	(4.5 ± 0.5)
Magnet Center Offset Y [μm] - (< ±30.0)	(4.0 ± 0.6)
Roll [mrad] - (< ±0.2)	(1.2 ± 0.7) × E-2

### Electric Parameters

Inductance [mH]	9.24
Voltage [V]	4.83
Main Coil Maximum Current [A]	154.9996
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)	(3.7 ± 0.4) × E-4	(3.3 ± 0.5) × E-4
2 (quadrupole)	(1.00000 ± 0.00002)	(2 ± 2) × E-5
3 (sextupole)	(2.5 ± 0.3) × E-4	(-2.4 ± 0.2) × E-4
4	(1.9 ± 0.2) × E-4	(3 ± 1) × E-5
5	(2 ± 1) × E-5	(1.0 ± 0.1) × E-4
6	(-1.016 ± 0.008) × E-3	(10 ± 2) × E-5
7	(-3 ± 7) × E-6	(2.1 ± 0.9) × E-5
8	(-7.9 ± 11.5) × E-6	(-3 ± 1) × E-5
9	(6.4 ± 12.4) × E-6	(-7.1 ± 11.8) × E-6
10	(1.75 ± 0.01) × E-3	(-2 ± 1) × E-5
11	(-4 ± 8) × E-6	(-8.8 ± 14.0) × E-6
12	(4 ± 7) × E-6	(8.3 ± 10.7) × E-6
13	(-1 ± 1) × E-5	(-2.5 ± 15.2) × E-6
14	(-7.16 ± 0.09) × E-4	(-8.1 ± 12.5) × E-6
15	(-3.7 ± 12.5) × E-6	(9 ± 9) × E-6

