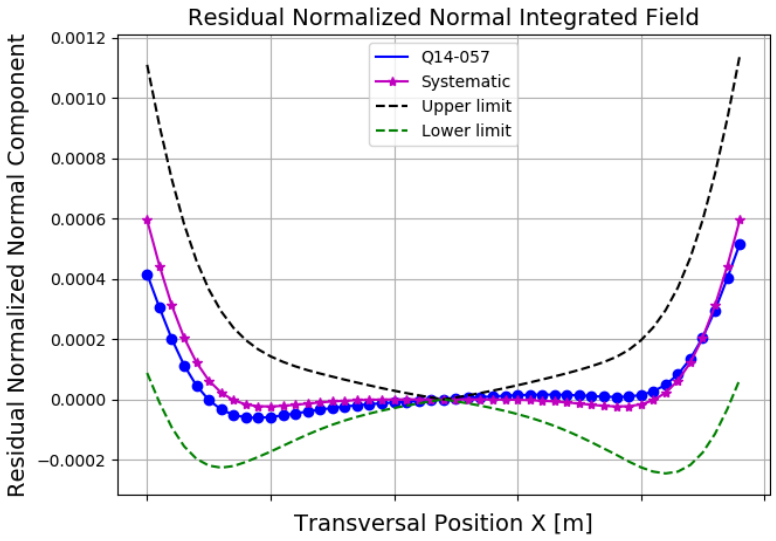
Q14-057

STORAGE RING MAGNET REPORT

Results	
Date	16/04/2018
Hour	09:48:43
Temperature [°C]	23.1
Number of Measurements	9
Main Coil Current [A]	(147.9957 ± 0.0008)
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]	(-5.24074 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(4.79 ± 0.06)
Magnet Center Offset Y [μm] - (< ±40.0)	(2.0 ± 0.2)
Roll [mrad] - (< ±0.3)	(-4.12 ± 0.09) x E-1
Electric Parameters	
Indutance [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)	(-3.99 ± 0.05) x E-4	(-1.6 ± 0.2) x E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(-8.2 ± 0.2) x E-4
3 (sextupole)	(6.1 ± 0.4) x E-5	(1.8 ± 0.2) x E-4
4	(8 ± 4) x E-6	(-3 ± 2) x E-5
5	(-1.2 ± 0.6) x E-5	(-1 ± 1) x E-5
6	(-4.08 ± 0.07) x E-4	(4 ± 1) x E-5
7	(1 ± 4) x E-6	(-6 ± 8) x E-6
8	(-6 ± 5) x E-6	(-4 ± 6) x E-6
9	(-1 ± 8) x E-6	(8.1 ± 71.9) x E-7
10	(1.54 ± 0.01) x E-3	(-1.1 ± 0.6) x E-5
11	(5 ± 7) x E-6	(-4.82 ± 119.79) x E-7
12	(8 ± 5) x E-6	(8.4 ± 12.9) x E-6
13	(-4.5 ± 57.7) x E-7	(1.60 ± 110.80) x E-7
14	(-6.76 ± 0.07) x E-4	(-7.7 ± 11.3) x E-6
15	(-4 ± 7) x E-6	(1.2 ± 68.1) x E-7