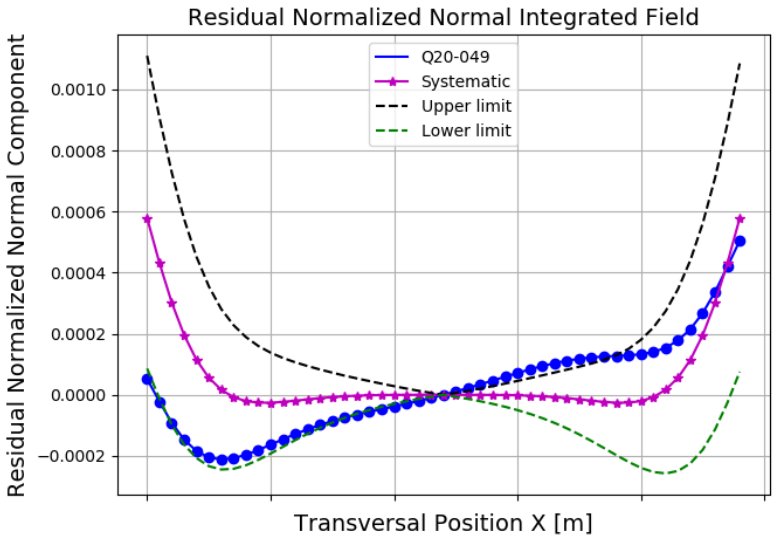
Q20-049

STORAGE RING MAGNET REPORT

Results	
Date	29/05/2018
Hour	15:38:29
Temperature [°C]	22.74
Number of Measurements	9
Main Coil Current [A]	(157.4377 ± 0.0007)
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]	(-9.07914 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(5.42 ± 0.05)
Magnet Center Offset Y [μm] - (< ±40.0)	(16.52 ± 0.05)
Roll [mrad] - (< ±0.3)	(1.46 ± 0.02) x E-1
Electric Parameters	
Indutance [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$^{(2-n)}$]	Normalized Skew Multipoles x=12.0 mm [T.m$^{(2-n)}$]
1 (dipole)	(-4.51 ± 0.04) x E-4	(-1.376 ± 0.004) x E-3
2 (quadrupole)	(1.000000 ± 0.000006)	(2.91 ± 0.05) x E-4
3 (sextupole)	(2.55 ± 0.03) x E-4	(7.08 ± 0.03) x E-4
4	(1.80 ± 0.02) x E-4	(-2.8 ± 0.3) x E-5
5	(-1.6 ± 0.2) x E-5	(-7.3 ± 0.4) x E-5
6	(-8.65 ± 0.02) x E-4	(5.3 ± 0.5) x E-5
7	(-3 ± 3) x E-6	(-2.9 ± 0.4) x E-5
8	(-6 ± 3) x E-6	(-2 ± 4) x E-6
9	(-6 ± 4) x E-6	(-1 ± 6) x E-6
10	(1.672 ± 0.004) x E-3	(-2.5 ± 0.3) x E-5
11	(-5 ± 3) x E-6	(4 ± 4) x E-6
12	(-3 ± 3) x E-6	(-2 ± 3) x E-6
13	(-4 ± 4) x E-6	(1 ± 5) x E-6
14	(-6.98 ± 0.04) x E-4	(7 ± 6) x E-6
15	(6 ± 4) x E-6	(-6.47 ± 645.56) x E-8