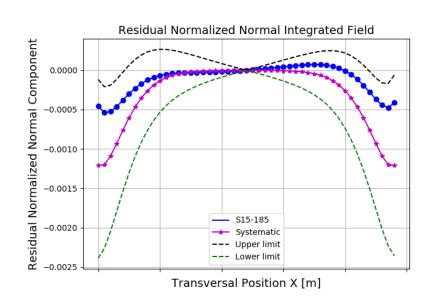


## S15-185

## STORAGE RING MAGNET REPORT

Results		
Date	29/08/2018	
Hour	10:19:50	
Temperature [°C]	23.477	
Number of Measurements	9	
Main Coil Current [A]	(167.798 ± 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/m]	(-359.757 ± 0.002	
Magnet Center Offset X [μm] - (< ±40.0)	(18.98 ± 0.03)	
Magnet Center Offset Y [μm] - (< ±40.0)	(31.0 ± 0.2)	
Roll [mrad] - (< ±0.3)	(-9 ± 1) x E-2	
Electric Parameters	I	
Indutance [mH]	3.157	
Voltage [V]	6.0106	
Resistance [m $\Omega$ ]	35.82	
Main Coil Number of Turns	11.25	



	Normalized	Normalized
	Normal	Skew
n	Multipoles	Multipoles
	x=12.0 mm	x=12.0 mm
	[T.m <sup>(2-n)</sup> ]	[T.m <sup>(2-n)</sup> ]
1 (dipole)	(-3.05 ± 0.07) x E-4	(7 ± 3) x E-5
2 (quadrupole)	(-3.163 ± 0.005) x E-3	(-5.16 ± 0.03) x E-3
3 (sextupole)	(1.000000 ± 0.000010)	(-2.7 ± 0.3) x E-4
4	(1.45 ± 0.04) x E-4	(3.0 ± 0.3) x E-4
5	(1.51 ± 0.09) x E-4	(2 ± 2) x E-5
6	(-1.40 ± 0.09) x E-4	(-7.8 ± 24.1) x E-6
7	(8.9 ± 0.7) x E-5	(-3 ± 2) x E-5
8	(2.3 ± 1.0) x E-5	(4 ± 2) x E-5
9	(-1.796 ± 0.006) x E-3	(4.3 ± 0.1) x E-4
10	(7.2 ± 10.8) x E-6	(-2 ± 2) x E-5
11	(9.22 ± 112.46) x E-7	(1 ± 2) x E-5
12	(2 ± 2) x E-5	(-1 ± 2) x E-5
13	(-5 ± 1) x E-5	(3 ± 1) x E-5
14	(-3.3 ± 0.9) x E-5	(-5 ± 2) x E-5
15	(1.17 ± 0.01) x E-3	(-1.6 ± 0.2) x E-4

