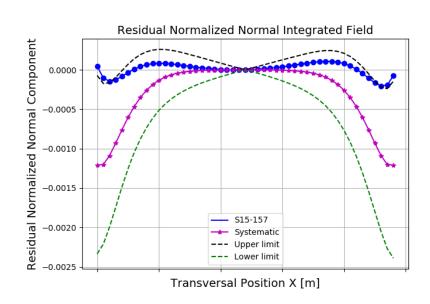


## S15-157

## STORAGE RING MAGNET REPORT

Results		
Date	04/09/2018	
Hour	16:55:22	
Temperature [°C]	23.557	
Number of Measurements	9	
Main Coil Current [A]	(167.798 ± 0.002)	
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]	(-360.024 ± 0.003	
Magnet Center Offset X [μm] - (< ±40.0)	(11.27 ± 0.03)	
Magnet Center Offset Y [μm] - (< ±40.0)	(25.4 ± 0.1)	
Roll [mrad] - (< ±0.3)	(9.5 ± 0.5) x E-2	
Electric Parameters	1	
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)	(-1.142 ± 0.003) x E-3	(3.1 ± 0.2) x E-4
2 (quadrupole)	(-1.879 ± 0.005) x E-3	(-4.23 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(2.9 ± 0.2) x E-4
4	(5.1 ± 0.5) x E-5	(2.0 ± 0.2) x E-4
5	(4.26 ± 0.07) x E-4	(7 ± 1) x E-5
6	(-10 ± 1) x E-5	(-3.3 ± 16.5) x E-6
7	(1.6 ± 0.1) x E-4	(-3 ± 2) x E-5
8	(1.2 ± 1.0) x E-5	(4 ± 1) x E-5
9	(-1.792 ± 0.007) x E-3	(4.4 ± 0.2) x E-4
10	(8.0 ± 12.2) x E-6	(-1.9 ± 0.6) x E-5
11	(-4.0 ± 11.5) x E-6	(1.8 ± 12.9) x E-6
12	(-2 ± 1) x E-5	(-4.8 ± 15.4) x E-6
13	(-6.9 ± 11.4) x E-6	(-5.3 ± 11.9) x E-6
14	(-1.8 ± 0.9) x E-5	(-3 ± 1) x E-5
15	(1.204 ± 0.007) x E-3	(-1.72 ± 0.07) x E-4

