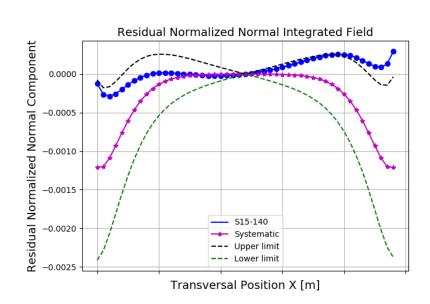


## S15-140

## STORAGE RING MAGNET REPORT

Results		
Date	27/07/2018	
Hour	12:51:54	
Temperature [°C]	23.445	
Number of Measurements	9	
Main Coil Current [A]	(167.7981 ± 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/m]	(-360.310 ± 0.008)	
Magnet Center Offset X [μm] - (< ±40.0)	(10.01 ± 0.09)	
Magnet Center Offset Y [μm] - (< ±40.0)	(23.4 ± 0.2)	
Roll [mrad] - (< ±0.3)	(6 ± 1) x E-2	
Electric Parameters		
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)	(4.9 ± 0.1) x E-4	(2.9 ± 0.4) x E-4
2 (quadrupole)	(-1.67 ± 0.02) x E-3	(-3.90 ± 0.04) x E-3
3 (sextupole)	(1.00000 ± 0.00003)	(1.7 ± 0.4) x E-4
4	(2.2 ± 0.3) x E-4	(-6.4 ± 31.2) x E-6
5	(5.5 ± 0.4) x E-4	(-1.1 ± 0.3) x E-4
6	(-8 ± 2) x E-5	(-2 ± 5) x E-5
7	(1.4 ± 0.4) x E-4	(2.5 ± 44.7) x E-6
8	(5 ± 3) x E-5	(3 ± 3) x E-5
9	(-1.85 ± 0.04) x E-3	(7.5 ± 0.3) x E-4
10	(3 ± 4) x E-5	(3 ± 3) x E-5
11	(-1 ± 3) x E-5	(-2 ± 3) x E-5
12	(2 ± 2) x E-5	(-5.4 ± 31.8) x E-6
13	(-3 ± 4) x E-5	(1 ± 4) x E-5
14	(-4 ± 3) x E-5	(8.1 ± 42.8) x E-6
15	(1.29 ± 0.05) x E-3	(-8 ± 5) x E-5

