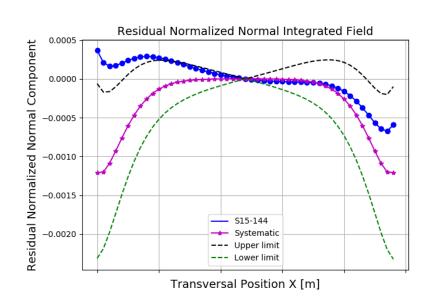


## S15-144

## STORAGE RING MAGNET REPORT

Results		
Date	27/07/2018	
Hour	15:54:15	
Temperature [°C]	23.285	
Number of Measurements	9	
Main Coil Current [A]	(167.7983 ± 0.0006	
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]	(-359.267 ± 0.005)	
Magnet Center Offset X [μm] - (< ±40.0)	(16.1 ± 0.1)	
Magnet Center Offset Y [μm] - (< ±40.0)	(19.6 ± 0.1)	
Roll [mrad] - (< ±0.3)	(4.1 ± 0.9) 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)	(-1.93 ± 0.04) x E-4	(1.2 ± 0.2) x E-4
2 (quadrupole)	(-2.68 ± 0.02) x E-3	(-3.26 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00002)	(1.2 ± 0.3) x E-4
4	(-2.4 ± 0.3) x E-4	(5 ± 3) x E-5
5	(4.3 ± 0.3) x E-4	(9 ± 2) x E-5
6	(-1.9 ± 0.3) x E-4	(1 ± 1) x E-5
7	(1.9 ± 0.2) x E-4	(-1.4 ± 0.2) x E-4
8	(-10 ± 4) x E-5	(-6.4 ± 31.1) x E-6
9	(-1.95 ± 0.03) x E-3	(7.0 ± 0.4) x E-4
10	(2 ± 2) x E-5	(-7 ± 3) x E-5
11	(-3 ± 3) x E-5	(-3 ± 3) x E-5
12	(2 ± 2) x E-5	(1 ± 3) x E-5
13	(-4 ± 2) x E-5	(7 ± 3) x E-5
14	(3.9 ± 42.1) x E-6	(-2 ± 3) x E-5
15	(1.29 ± 0.04) x E-3	(-8 ± 3) x E-5

