



S15-111

STORAGE RING MAGNET REPORT

Results

Date	17/08/2018
Hour	11:48:52
Temperature [°C]	23.543
Number of Measurements	9
Main Coil Current [A]	(167.7982 ± 0.0008)
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]	(-359.619 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(6.25 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(20.8 ± 0.1)
Roll [mrad] - (< ±0.3)	(1.80 ± 0.06) x E-1

Electric Parameters

Inductance [mH]	3.157
Voltage [V]	6.0106
Resistance [mΩ]	35.82
Main Coil Number of Turns	11.25

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)	(-8.17 ± 0.03) x E-4	(10 ± 2) x E-5
2 (quadrupole)	(-1.041 ± 0.004) x E-3	(-3.47 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(5.4 ± 0.2) x E-4
4	(1.29 ± 0.06) x E-4	(3 ± 1) x E-5
5	(2.51 ± 0.05) x E-4	(-8.0 ± 12.5) x E-6
6	(2 ± 5) x E-6	(-6 ± 1) x E-5
7	(1.1 ± 0.1) x E-4	(8.76 ± 125.18) x E-7
8	(2 ± 6) x E-6	(3 ± 1) x E-5
9	(-2.082 ± 0.007) x E-3	(8 ± 1) x E-5
10	(6 ± 9) x E-6	(-2 ± 9) x E-6
11	(-9 ± 7) x E-6	(-1.8 ± 0.8) x E-5
12	(-8 ± 7) x E-6	(9 ± 9) x E-6
13	(-8.2 ± 11.1) x E-6	(4 ± 9) x E-6
14	(-3 ± 5) x E-6	(-4.5 ± 0.6) x E-5
15	(1.332 ± 0.007) x E-3	(7 ± 1) x E-5

