



S15-226

STORAGE RING MAGNET REPORT

Results

Date 30/07/2018

Hour 15:33:23

Temperature [°C] 23.196

Number of Measurements 9

Main Coil Current [A] (167.7994 ± 0.0009)

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] (-359.675 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (11.31 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (27.12 ± 0.05)

Roll [mrad] - (< ±0.3) (9.0 ± 0.4) × E-2

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)	(-3.4 ± 0.5) × E-5	(5.1 ± 0.1) × E-4
2 (quadrupole)	(-1.885 ± 0.005) × E-3	(-4.520 ± 0.008) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(2.7 ± 0.1) × E-4
4	(3.5 ± 0.1) × E-4	(1.7 ± 0.2) × E-4
5	(3.7 ± 0.2) × E-4	(-2.2 ± 0.1) × E-4
6	(-2 ± 2) × E-5	(-2 ± 2) × E-5
7	(1.3 ± 0.2) × E-4	(3 ± 2) × E-5
8	(-5.0 ± 16.4) × E-6	(2 ± 2) × E-5
9	(-1.95 ± 0.02) × E-3	(4.9 ± 0.2) × E-4
10	(9.1 ± 18.7) × E-6	(-4 ± 2) × E-5
11	(-3 ± 3) × E-5	(-2.5 ± 0.9) × E-5
12	(9.2 ± 18.5) × E-6	(2 ± 2) × E-5
13	(-5 ± 2) × E-5	(-4.59 ± 265.91) × E-7
14	(-2 ± 2) × E-5	(-4 ± 3) × E-5
15	(1.26 ± 0.01) × E-3	(6 ± 1) × E-5

