Date: 1999-03-19 **TEST REPORT** **Page 1 of 7**

No.: WM1322A/504

APPLICANT: (CODE : 019094)

SKY CITY INT'L LTD.
Unit 2, 12/F., Carnival Commercial Building, 18 Java Road, North Point, Hong Kong.

DATE OF SAMPLES RECEIVED:
1998-12-17

TEST DURATION
1999-01-21 and 1999-01-22

DESCRIPTION OF SAMPLE(S):
A sample of product said to be:

Product:	RECHARGEABLE REMOTE CONTROL LANTERN
Manufacturer:	SKY CITY INT'L LTD.
Model Number:	RCL3000
Brand Name:	N/A
Rating:	12Vd.c. /With DC jack
Origin:	China

The product tested with AC-DC adaptor Brand Name: WINSTAR, model no. NA-1535, input AC117/230V 50/60Hz 34W Output DC 3-15V 1500mA max.

INVESTIGATIONS REQUESTED:
Measurement to the relevant clauses of F.C.C. Rules and Regulations Part 15 Subpart B - Unintentional Radiator.

RESULT:
Please see attached sheet(s).

REMARK:
The test report supersedes our previous test report no. WM1322/504 issued on 1999-01-27 which is hereby deemed null and void.

CONCLUSION:
From the measurement data obtained, the tested sample was considered to have COMPLIED after modification with the clause 15.109(a) for the Receiver Section of Federal Communication Rules and Regulation Part 15 and ANSI C63.4-1992 Section 12.1.1.1-2.

TEST EQUIPMENT AUDIT: Please see Appendix A

MODIFICATION: R30 change to 10kΩ

_____	_____	_____
Testing Engineer	Verify by	Patrick Wong for Managing Director

T E S T S U M M A R Y

(A) Measurement of Radiated Emissions .....Satisfactory

(B) Line Conducted Voltage Test. .....Satisfactory

T E S T D A T A

Please refer to the attached result sheets.

*** RECEIVER SECTION ***

(A) Measurement of Radiated Interference

TEST REFERENCE: FCC Rules Part 15 Subpart B section 15.109(a)
TEST CONDITION : Normal
TEST DATE : 1999.01.22

Emission Frequency	Meter Reading	Polarization		Antenna Factor	Field Strength (at 3m)		FCC Limit
MHz	dB(μV)	H-V		dB	dB(μV/m)	μV/m	μV/m
322.0	20.9	H	+	17.0	37.9	78.5	200
644.0	< 1.0		+	23.5	<24.5	<16.7	200
966.0	< 1.0		+	28.3	<29.3	<29.2	500
1288.0	< 1.0		+	24.4	<25.4	<18.6	500
1610.0	< 1.0		+	26.0	<27.0	<22.4	500
1932.0	< 1.0		+	27.8	<28.8	<27.5	500
2254.0	< 1.0		+	28.1	<29.1	<28.5	500
2576.0	< 1.0		+	28.5	<29.5	<29.9	500
2898.0	< 1.0		+	29.2	<30.2	<32.4	500
3220.0	< 1.0		+	31.3	<32.3	<41.2	500

==========SUMMARY==========

All data is within limits

Broad-band Antennas were used and both polarizations of emissions were measured
Polarizations at highest reading indicated as:
H -- Horizontal V -- Vertical

NOTES FOR THE RADIATION MEASUREMENT

(1) Test site facility:
Open field test site located at Taipo (Hong Kong) with a metal ground plane on filed with the FCC pursuant to section 2.948 of the FCC Rules.

(2) Distance between the ET and measuring antenna:
3 meters.

(3) Measuring instrumentations:
CISPR Quasi-peak type field strength meter (25 MHz - 1000 MHz and 1GHz-18GHz).6dB bandwidth set at 120KHz. Also, peak level of the fundamental emissions was measured in order to determine compliance with the 20dB peak to average limit specified in Section 15.231 of the FCC new Rules.

(4) Measuring antenna:
Broad band antenna for the frequency range 25-1000 MHz, connected with 10 meters coaxial cable.Horn antenna for the frequency range 1-18 GHz, connected with high frequency coaxial cable.Cable loss of the coaxial cable. Cable included in the Antenna Factor for measurement data. The antenna are capable of measuring both horizontal and vertical polarizations.

(5) Frequency range scanned:
The frequency range from 25 MHz to 1000 MHz had been searched. Readings of the highest emissions relating to the limit were reported as above.

(6) Arrangement of EUT:
During the test, the sample was operated at rated supply voltage and arranged for maximum emissions.

(7) Measuring Procedure:
In accordance with the relevant clauses of the FCC Rules Part 15 section 15.109(a) and ANSI C63.4:1992 section 12.1.1.1-2.

(8) Measuring Uncertainty:
The calculated uncertainty for measurement performed at 3M test distance are:-
30MHz to 200MHz = ± 3.7dB, 200MHz to 1000MHz = + 3.0dB/-2.7dB.
1GHz to 18GHz = +3.3dB/-3.4dB.

Remark: Purpose of this test is to provide the Applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under FCC's Equipment Authorization Program. This test itself is not an Approval Test.

*** RECEIVER SECTION ***

(B) Measurement of Line-Conducted Voltage onto AC Power Line

TEST REFERENCE: FCC Rules Part 15 Subpart B section 15.109(a)
TEST CONDITION : Normal
TEST DATE : 1999.01.21

(1) Between "Live" and "Ground"

Frequency Range of Emission MHz	Maximum Measured Radio Noise dB(μV)	μV	FCC Limit (Class B) μV
0.45 - 0.8	< 29.27	29.07	250.00
0.8 - 1.6	0.00	1.00	250.00
1.6 - 3.0	0.00	1.00	250.00
3.0 - 5.0	0.00	1.00	250.00
5.0 - 7.0	0.00	1.00	250.00
7.0 - 9.0	0.00	1.00	250.00
9.0 - 11.0	0.00	1.00	250.00
11.0 - 13.0	0.00	1.00	250.00
13.0 - 15.0	0.00	1.00	250.00
15.0 - 17.0	0.00	1.00	250.00
17.0 - 19.0	0.00	1.00	250.00
19.0 - 21.0	0.00	1.00	250.00
21.0 - 23.0	0.00	1.00	250.00
23.0 - 25.0	0.00	1.00	250.00
25.0 - 27.0	0.00	1.00	250.00
27.0 - 30.0	0.00	1.00	250.00

- End -

========== SUMMARY ==========

All data is within limits

*** RECEIVER SECTION ***

(B) Measurement of Line-Conducted Voltage onto AC Power Line

TEST REFERENCE: FCC Rules Part 15 Subpart B section 15.109(a)
TEST CONDITION : Normal
TEST DATE : 1999.01.21

(1) Between "Neutral" and "Ground"

Frequency Range of Emission MHz	Maximum Measured Radio Noise dB(μV)	μV	FCC Limit (Class B) μV
0.45 - 0.8	29.27	29.07	250.00
0.8 - 1.6	0.00	1.00	250.00
1.6 - 3.0	0.00	1.00	250.00
3.0 - 5.0	0.00	1.00	250.00
5.0 - 7.0	0.00	1.00	250.00
7.0 - 9.0	0.00	1.00	250.00
9.0 - 11.0	0.00	1.00	250.00
11.0 - 13.0	0.00	1.00	250.00
13.0 - 15.0	0.00	1.00	250.00
15.0 - 17.0	0.00	1.00	250.00
17.0 - 19.0	0.00	1.00	250.00
19.0 - 21.0	0.00	1.00	250.00
21.0 - 23.0	0.00	1.00	250.00
23.0 - 25.0	0.00	1.00	250.00
25.0 - 27.0	0.00	1.00	250.00
27.0 - 30.0	0.00	1.00	250.00

- End -

========== SUMMARY ==========

All data is within limits

NOTES FOR THE CONDUCTED POWER-LINE MEASUREMENT

(1) LISN (Line Impedance Stabilization Network) used :
50 μH stadnardized RF Line Impendane Stabilisation Network.

(2) Measurement Instrumentations:
CISPR quasi-peak type radio noise meter (80KHz - 30 MHz), 6 dB bandwidth set at 9 KHz for measurement between 150 KHz & 30MHz.

(3) Frequency range scanned :
The frequency range form 450 KHz to 30 MHz had been searched. Reading of the highest emissions relating to the limit were reported as above.

(4) Configuration of EUT
Connection of equipment and operation conditions were same as those in the Radiation measurement.

(5) Measurement procedure :
In accordance with the relevant sections of ANSI C63.4:1992

(6) Measuring Uncertainty:
The calculated uncertainty for conducted power-line measurement is = ±2.3dB.

Remark : Purpose of this test is to provide the Applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under FCC's Equipment Authorization Program. This test itself is not an Approval Test.

End of Document