

FCC ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CERTIFICATION TO FCC PART 15 REQUIREMENTS

for

UNINTENTIONAL RADIATOR

of

Wireless home security interface

FCC ID Number : QNP-EVREC1

Trade Name : Evolution

Model Number : EV-REC1

Agency Series : N/A

Report Number : 03E1032-D

Date : June 27, 2003

Prepared for :

Secure Wireless, Inc.

1185 Park Center Dr Suite A/B

Vista, CA 92083, United States

Prepared by :

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1. VERIFICATION OF COMPLIANCE

COMPANY NAME : Secure Wireless, Inc.
1185 Park Center Dr Suite A/B
Vista, CA 92083, United States

CONTACT PERSON : Michael Lamb / Jeff Christensen

TELEPHONE NO. : 866-966 9473

EUT DESCRIPTION : Wireless home security interface

MODEL NAME/NUMBER : EV-REC1

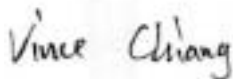
FCC ID : QNP-EVREC1

DATE TESTED : May 16, 2003

REPORT NUMBER : 03E1032

TYPE OF EQUIPMENT	SECURITY EQUIPMENT (UNINTENTIONAL RADIATOR)
EQUIPMENT TYPE	433.92 MHz Wireless home security interface
MEASUREMENT PROCEDURE	ANSI 63.4 / 1992
LIMIT TYPE	CERTIFICATION
FCC RULE	CFR 47, PART 15.109

The above equipment was tested by C&C Laboratory Co., Ltd. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. **Warning:** This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Engineering Services, Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by C&C Laboratory Co., Ltd. will constitute fraud and shall nullify the document.



Vince Chiang / Supervisor
C&C Laboratory Co., Ltd.

2. PRODUCT DESCRIPTION

Secure Wireless, Inc., model no: EV-REC1 is the receiving portion of a multi-purpose security device. The associated transmitter is manufactured by Secure Wireless, Inc., model no: EVREM, FCC ID: QNP-EVREM.

3. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 163-1, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan R.O.C. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

The measuring instrument which was utilized in performing the tests documented herein has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment which is traceable to recognized national standards.

4. MEASUREMENT EQUIPMENT USED

Manufacturer	Model Number	Description	Cal Due Date
SCHAFFNER	SCR3501	MEASURE RECEIVER	06/16/04
ADVANTEST	R3132	SPECTRUM ANALYZER	09/17/03
SCHAFFNER	CBL 6112B	ANTENNA	10/02/03
BELDEN	9913	CABLE	10/13/03
SCHAFFNER	CPA9231A	PRE-AMPLIFIER	10/30/03

5. TEST CONFIGURATION

Set frequency generator to 433.92 MHz. EUT receiving transmission continuously. All the wires are placed on the turn table to their maximum length to simulate the worse emission conditions.

6. TESTS CONDUCTED

CFR 47, 15.109 RADIATED EMISSION TESTS	CONDUCTED AT 3 METERS
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7. RADIATED EMISSION TEST PROCEDURE

The EUT and all other support equipment are placed on a wooden table 80 cm above the ground screen. Antenna to EUT distance is 3 meters. During the test, the table is rotated 360 degrees to maximize emissions and the antenna is positioned from 1 to 4 meters above the ground screen to further maximize emissions. The antenna is polarized in both vertical and horizontal positions.

Monitor the frequency range of interest at a fixed antenna height and EUT azimuth. Frequency span should be small enough to easily differentiate between broadcast stations and intermittent ambients. Rotate EUT 360 degrees to maximize emissions received from EUT. If emission increases by more than 1 dB, or if another emission appears that is greater by 1 dB, return to azimuth where maximum occurred and perform additional cable manipulation to further maximize received emission.

Move antenna up and down to further maximize suspected highest amplitude signal. If emission increased by 1 dB or more, or if another emission appears that is greater by 1dB or more, return to antenna height where maximum signal was observed and manipulate cables to produce highest emissions, noting frequency and amplitude.

8. COHERENT TESTS

During Radiated Emission Tests, the corresponding transmitter model no: EV-REM was used to radiate unmodulated CW signal to EUT at 433.92 MHz. Please refer to radiated radiate emission plots and data for the highest readings.

9. EQUIPMENT MODIFICATIONS

To achieve compliance to FCC section 15.109, the following change(s) were made during compliance testing:

NOT APPLICABLE

APPENDIX 1

TEST CONFIGURATION PHOTOS

RADIATED EMISSION TEST

