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|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <u>APPLICANT</u>                                       | <u>MANUFACTURER</u>                                                                                                                         |
| X-10 USA, Inc.<br>91 Ruckman Road<br>Closter, NJ 07624 | X-10 Electronics Shenzhen Co. Ltd.<br>X-10 Building<br>Labour Industrial District<br>Shenzhen, Xixiang, Bao An<br>Guang Dong, China, 518102 |

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C

TEST PROCEDURE: ANSI C63.4:1992

TEST SAMPLE DESCRIPTION

BRANDNAME: X-10

MODEL: XX10A FCC ID: B4SXX10A

TYPE: Wireless Audio / Video Sender

FREQUENCY RANGE: 2400MHz to 2483.5MHz

POWER REQUIREMENTS: 12 VDC derived from 115 VAC, 60 Hz AC Adapter

TESTS PERFORMED

- 15.249(a) Radiated Emissions, Fundamental and Harmonics
- 15.249(c)/15.209 Out-of-Band Radiated Emissions
- 15.294(c) Occupied Bandwidth
- 15.207(a) Conducted Emissions

## REPORT OF MEASUREMENTS

Applicant: X-10 (USA), Inc.

Device: 2400 to 2483.5MHz Wireless Audio / Video Sender

FCC ID: B4SXX10A

Power Requirements: 12 VDC

Applicable Rule Section: Part 15, Subpart C, Section 15.249

## TEST RESULTS

- 15.203: The intentional radiator is designed to ensure that no antenna other than that furnished by the applicant can be used with the device.
- 15.207(a): The radio frequency voltage that was conducted back on to the AC power line on any frequency/frequencies within the bandwidth of 450kHz to 30MHz did not exceed 250 microvolts.
- 15.249(a): The unit operates in the 2400-2483.5MHz band at 4 frequencies as follows:  
1) 2413 MHz    2) 2437.6 MHz  
3) 2455 MHz    4) 2471 MHz  
Field strength readings were taken at 3 frequencies (low, middle and high) because the device operates over a range greater than 10 MHz  
The field strength of the fundamental did not exceed 50mV/M AVERAGE. The field strength of the harmonics did not exceed 500 V/M AVERAGE.
- 15.249(b): Field strength readings were taken at three meters unless otherwise noted.
- 15.249(c): Emissions radiated outside band edges are greater than 50 dB below the specified the level of the fundamental.
- 15.249(d): The peak field strength of any emission did not exceed the maximum permitted average field strength by more than 20dB under any condition of modulation.

## EXHIBIT 4

### Radiated Emissions, Fundamental & Harmonics

Para. 15.249(a)

(See separate e-file attachments named RECHA.doc, RECHC.doc and RECHD.doc)

## EXHIBIT 4

### Spurious Emissions

Para. 15.249(c)

(See separate e-file attachment RE15.249.docc)

EXHIBIT 4

Occupied Bandwidth

Para. 15.249(c)

(See separate e-file attachment named Occbw.pdf)

## EXHIBIT 4

### Conducted Emissions

Para. 15.207(a)

(See separate e-file attachment named CEdata.pdf)