

## RF Exposure Evaluation declaration

Product Name	Angelcare Baby Monitor
Model No.	AC1200
FCC ID	N7TAC1200T

Applicant	Angelcare Monitors Inc.
Address	9975, Av. De Catania, Local B, Brossard, Quebec, J4Z 3V6, Canada

Date of Receipt	Jun. 28, 2013
Date of Declaration	Jul. 30, 2013
Report No.	137088R-RFUSP28V01

The declaration results relate only to the samples calculated.

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## 1. RF Exposure Evaluation

### 1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

#### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

R = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

### 1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

### 1.3. Test Result of RF Exposure Evaluation

Product : Angelcare Baby Monitor  
 Test Item : RF Exposure Evaluation  
 Test Site : No.3 OATS

Operation Frequency	2412 – 2462MHz, 2422-2452MHz
Maximum Conducted output power	23.79dBm
Antenna gain	2.8dBi

#### Output Power Into Antenna & RF Exposure Evaluation Distance:

Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )
239.3316	0.090726

Power density in column 4 is much lower than the limit (1 mW/cm<sup>2</sup>).