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# RF Exposure Exhibit

**Application No.:** SZEMO071203569RF

**Applicant:** Vocentrix(HK)Limited

**FCC ID** VUY1048P

**Equipment Under Test (EUT):**

**EUT Name:** Baby monitor

**Model:** 08280

**Date of Receipt:** 10 December 2007

**Date of Test:** 11 December 2007

**Date of Issue:** 14 December 2007

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Robinson Lo  
Laboratory Manager

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## 2 RF Exposure Evaluation

### 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 OFR 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, 1mW/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.

### Test Procedure

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



**Test Result of RF Exposure Evaluation**

Date of Test	2007-12-05	Temperature	25 deg/C
Humidity	52%RH		

**Antenna Gain**

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0dBi or 1.00 in linear scale.

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

Channel No.	Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )
1	2410.00	5.96	0.0012
6	2440.00	5.62	0.0011
11	2470.00	4.88	0.0010

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1mW/cm<sup>2</sup>.