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# Maximum Permissible Exposure Evaluation

FCC ID: 2AV29JM55993TR

## 1. Client Information

Applicant	6	Zhongshan Jesmay Electronics Co.,Ltd
Address	:	No.1 Industry District, Tan Zhou Town, Zhong Shan City, Guangdong, China
Manufacturer		Zhongshan Jesmay Electronics Co.,Ltd
Address	÷	No.1 Industry District, Tan Zhou Town, Zhong Shan City, Guangdong, China

## 2. General Description of EUT

EUT Name	:	Baby Monitor			
Models No.	1	JM55993T, B044T, B044, B044-2T B049T, B049, B049-2T, B045T, B045, B045-2T, B254T, B254, B254-2T			
Model Different		All these models are the same PCB, layout and electrical circuit, The only difference is the Brand Name.			
THOUSAND IN	9	Operation Frequency:	2406MHz~2475MHz		
Product	3	RF Output Power:	14.551dBm		
Description		Antenna Gain:	3dBi FPC Antenna		
		Modulation Type:	GFSK (4Mbps)		
Power Supply	<u> </u>	DC Voltage Supply from AC/DC Adapter			
Power Rating	DC5V from Adapter : Input: AC 100-240V~50/60Hz, 0.2A Output: DC 5.0V,1000mA				
<b>Software Version</b>	:	VC0902			
Hardware Version	1	V 1.0.1			
Remark	:	The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.			

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### **MPE Calculations for WIFI**

#### 1. Antenna Gain:

FPC Antenna: 3dBi.

## 2. EUT Operation Condition:

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

## 3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=(PG)/4\pi R^2$ 

Where

S: power density

P: power input to the antenna

**G**: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

#### 4. Test Result:

Mode	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm <sup>2</sup> ) [S]
2406	14.455	14±1	15	3	20	0.0126
2442	14.551	14±1	15	3	20	0.0126
2475	14.384	14±1	15	3	20	0.0126



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#### 5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

#### **Limits for General Population/ Uncontrolled Exposure**

Frequency Range (MHz)	Power density (mW/ cm²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For GFSK:2406~2475 MHz MPE limit S: 1mW/ cm<sup>2</sup>

The MPE is calculated as 0.0126mW / cm² < limit 1mW / cm². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

#### Note

For a more detailed features description, please refer to the RF Test Report.

----END OF REPORT----