

Maximum Permissible Exposure Evaluation

FCC ID: OIE55853TR

1. Client Information

Applicant	:	LB Technology Co., Ltd
Address	:	No. 5 of Xiaoyang Rd, First Industrial Park, Tanzhou Town, Zhongshan City, Guangdong, China
Manufacturer	:	LB Technology Co., Ltd
Address	:	No. 5 of Xiaoyang Rd, First Industrial Park, Tanzhou Town, Zhongshan City, Guangdong, China

2. General Description of EUT

EUT Name	:	Baby Monitor	
Models No.	:	LB55853T, JLB55853T, JLB853	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is brand name.	
Sample ID	:	20200730-12-1#	
Product Description	:	Operation Frequency:	2406MHz~2475MHz
		RF Output Power:	18.267dBm
		Antenna Gain:	3dBi FPC Antenna
		Modulation Type:	GFSK (4Mbps)
Power Rating	:	DC 5V from Adapter(ZD5C050100USW) Input: 100-240V~, 50/60Hz, 0.2A Output: DC 5V 1000mA	
Software Version	:	VC0902	
Hardware Version	:	V1.0.0	
Remark	:	The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.	

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 ²) [S]
2406	18.267	18±1	19	3	20	0.0315
2442	18.027	18±1	19	3	20	0.0315
2475	17.832	18±1	19	3	20	0.0315

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/ cm ²)
300-1,500	F/1500
1,500-100,000	1.0

For GFSK:2406~2475 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as $0.0315\text{mW} / \text{cm}^2 < \text{limit } 1\text{mW} / \text{cm}^2$. 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.

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