Maximum Permissible Exposure Evaluation

FCC ID:OIE55955TR

1. Client Information

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

2. General Description of EUT

EUT Name	:	Baby Monitor	
Models No.	:	LB55955T,JLB55955ST,LB55955(CE)T,LB55955S(CE)T	
Model Different	:	All these models are the same PCB, layout and electrical circuit, The only difference is the Brand Name.	
Product Description	:	Operation Frequency:	2406MHz~2475MHz
		RF Output Power:	13.054dBm
		Antenna Gain:	3dBi FPC Antenna
		Modulation Type:	GFSK (4Mbps)
Power Supply	:	DC Voltage Supply from AC/DC Adapter	
Power Rating	:	Adapter (Model:ZD5C050100USW) Input: AC 100-240V~50/60Hz, 0.2A Output: DC 5.0V,1000mA	
Software Version	:	V1.0	
Hardware Version	:	LB55953_BU_V03	
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^2) [S]
2406	12.939	13±1	14	3	20	0.00997
2442	13.054	13±1	14	3	20	0.00997
2475	12.936	13±1	14	3	20	0.00997

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: $1mW/cm^2$
The MPE is calculated as ***$0.00997mW/cm^2 < limit\ 1mW/cm^2$***. 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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