Shenzhen Toby Technology Co., Ltd.



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Maximum Permissible Exposure Evaluation

FCC ID: 2AV29-B155BU

1. Client Information

Applicant		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	3	Baby Monitor		
Models No.	÷	JM55865T, B155T, B155, B155-2T		
Model Different		All PCB boards and circuit diagrams are the same, the only difference is that model names.		
Sample ID	ple ID : RW-C-202212-0205-1-1# & RW-C-202212-0205-1-2#			
Product Description		Operation Frequency: 2410MHz~2473MHz		
Power Rating	:	Adapter(ZD5C050100USW) Input: 100-240V~50/60Hz 0.2A Output: DC 5V1000mA		
Software Version				
Hardware Version	re Version :			
Remark		The adapter and antenna gain provided by the applicant, the verifie for the RF conduction test provided by TOBY test lab.		

TB-RF-074-1. 0



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Method Of Measurement for FCC

1. Max. Antenna Gain:

External Antenna: 2.0dBi.

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

Simultaneous transmission MPE Considerations

According to KDB447498: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is \leq 1.0.

This means that:

∑ of MPE ratios ≤ 1.0





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4. Test Result:

2.4G Worst Maximum MPE Result								
Mode	N _{TX}	Freq. (MHz)	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]
	العقال	2410	11.78	11±1	12	2	20	0.0049
user	1	2441.5	11.28	11±1	12	2	20	0.0049
WILL STATE		2473	10.61	10±1	11	2	20	0.0039

Note:

N_{TX}= Number of Transmit Antennas RF Output power specifies that Maximum Conducted Peak Output Power.





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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:2410~2473 MHz MPE limit S: 1mW/ cm²

The MPE is calculated as 0.0049mW/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----

