

Report No.: TB-MPE165563

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Maximum Permissible Exposure Evaluation FCC ID: 2ANK8-S08

1. Client Information

Applicant		Shenzhen Forever Young Technology Co.,Ltd		
Address		4/F, No.5 Bldg, Fu Hong Industrial Park, Fu Yong Town, Bao'an District, Shenzhen, China		
Manufacturer	3	Shenzhen Forever Young Technology Co.,Ltd		
Address	dress : 4/F, No.5 Bldg, Fu Hong Industrial Park, Fu Yong Town, Bao'an District, Shenzhen, China			

2. General Description of EUT

EUT Name	:	WiFi Infrared Remote Control				
Models No.		S08				
Model Different		N/A				
TOTAL STATE		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz			
Product		RF Output Power: 802.11b: 15.97dBm 802.11g: 15.45dBm 802.11n (HT20): 14.48dBm				
Description		Antenna Gain:	2.5dBi PCB Antenna			
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)			
Power Supply		DC Voltage by AC/DC Adapter supplied				
Power Rating						
Software Version		N/A				
Hardware Version		N/A				
Connecting I/O Port(S)	:	: Please refer to the User's Manual				

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MPE Calculations for WIFI

1. Antenna Gain:

PCB Antenna: 2.5dBi.

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]
802.11b	15.97	15±1	16	2.5	20	0.01408
802.11g	15.45	15±1	16	2.5	20	0.01408
802.11n (HT20)	14.48	14±1	15	2.5	20	0.01119



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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 802.11b/g/n:2412~2462 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as 0.01408mW / 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----