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Maximum Permissible Exposure Evaluation

FCC ID: 2ANJP-APS13T

1. Client Information

Applicant	•	SHENZHEN AVATARCONTROLS CO., LTD.		
Address	Ē	Room 502, 5F, W1-A Block, High-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China		
Manufacturer		SHENZHEN AVATARCONTROLS CO., LTD.		
Address	i	Room 502, 5F, W1-A Block, High-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China		

2. General Description of EUT

<u> </u>		TOLANIOLE ON A DE	DOMED OTDID			
EUT Name		TRIANGLE SMART POWER STRIP				
Models No.		APS13T-US				
Model Different		N/A				
	a de la constante de la consta	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz			
Product)	RF Output Power: 802.11b: 16.79dBm 802.11g: 14.91dBm 802.11n (HT20): 14.72dBm				
Description		Antenna Gain: 3dBi PCB Antenna				
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)			
Power Supply	: AC Voltage supplied					
Power Rating		Input: AC110~125V,10A,50/60Hz,1250W(Max). Output: AC100~240V,10A,50/60Hz, 1250W(Max). USB:DC5V 3.1A(MAX)				
Software Version	•					
Hardware Version	: N/A					
Connecting I/O Port(S)	: Please refer to the User's Manual					

TB-RF-075-1. 0

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MPE Calculations for WIFI

1. Antenna Gain:

PCB 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]
802.11b	16.79	16±1	17	3	20	0.01989
802.11g	14.91	14±1	15	3	20	0.01255
802.11n (HT20)	14.72	14±1	15	3	20	0.01255



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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 0.01989/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----