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Maximum Permissible Exposure Evaluation

FCC ID: 2A4QD-AI-C20

1. Client Information

Applicant	9 :	Shenzhen Skymee Technology Co., Ltd		
Address		Room 1119, 11/F,Department Store East Building, Shennan East Road No.123, Dongmen Street, Luohu District, Shenzhen City China		
Manufacturer		Chengdu Weizheng Digital Technology Co., Ltd.		
Address		69 Chuangye Road, Xindu Industrial East Area, Chengdu City, Sichuan Province China		

2. General Description of EUT

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EUT Name	1	Owl Robot					
Models No.	:	AI-C20, AI-C10, AI-C30, AI-C40, AI-C50, AI-C60, AI-C70, AI-C80, AI-C90, AI-C100, AI-C110, AI-C120, AI-C130, AI-C140, AI-C150, AI-C160, AI-C170, AI-C180, AI-C190, AI-C200, AI-C210, AI-C220, AI-C230, AI-C240, AI-C250, AI-C260, AI-C270, AI-C280, AI-C290, AI-C300					
Model Different	5.	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name.					
Brand Name		Skymee					
Product Description		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz				
		Number of Channel:	802.11b/g/n(HT20):11 channels				
		RF Output Power:	18.145dBm (Max)				
Miles		Antenna Gain:	2.0dBi PCB Antenna				
Power Rating	1	Adapter(BI12T-050200-IU) Input: 100-240V 50/60Hz 0.5A Output: 5V2A 10.0W DC 3.7V by 5000mAh(18.5Wh) Li-ion battery					
Software Version	·						
Hardware Version		ai-c20_main_v6					
Connecting I/O Port(S)		Please refer to the User's Manual					
Remark		the MPE report used the EUT-2(C-202202-0042-2#).					



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MPE Calculations for Bluetooth

1. Antenna Gain:

PCB 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

4. Test Result:

			2.40	WiFi MP	E Result			
Mode	N _T x	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]
	200	2412	17.995	17±1	18	2	20	0.0198
802.11b 1	1	2437	18.145	18±1	19	2	20	0.0250
	23	2462	18.057	18±1	19	2	20	0.0250
802.11g 1	and the same	2412	17.193	17±1	18	2	20	0.0198
	1	2437	17.253	17±1	18	2	20	0.0198
		2462	17.165	17±1	18	2	20	0.0198
802.11n20	ARTE	2412	16.608	16±1	17	2	20	0.0158
	1	2437	16.657	16±1	17	2	20	0.0158
		2462	16.479	16±1	17	2	20	0.0158

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 2.4 WIFI:2412~2462MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.0250mW/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.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----END OF REPORT----