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Maximum Permissible Exposure Evaluation FCC ID: 2BBET-PF300

1. Client Information

Applicant	:	Shenzhen Hu Yang Intelligent Innovation Co.,Ltd.			
Address		301, building 3, DCC cultural and creative park, Pinghu Street,Longgang District, Shenzhen, China			
Manufacturer	:	Shenzhen Hu Yang Intelligent Innovation Co.,Ltd.			
Address	ess : 301, building 3, DCC cultural and creative park, Pinghu Street, Longgang District, Shenzhen, China				

2. General Description of EUT

EUT Name		Automatic pet feeder			
Models No.	9	PF300, PF301, PF302, PF303, PF304, PF305, PF306, PF307, PF308, PF309, PF300A, PF301A, PF302A, PF303A, PF304A, PF305A, PF306A, PF307A, PF308A, PF309A			
Model Different	12	All PCB boards and circuit diagrams are the same, with differences in appearance and model names.			
Product Description	1:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz		
		Number of Channel:	802.11b/g/n(HT20):11 channels		
		Antenna Gain:	2.54dBi PCB Antenna		
Power Rating		Adapter Model#1: PLH-A918 Input:AAC100-240V~50/60Hz, 0.18A Output: DC 5V1A Adapter Model#2: VS0075-0500100VUB Input:AAC100-240V~50/60Hz, 0.3A Output: DC 5V1A			
Li-ion Polymer Battery		DC 1.5V by AA battery*4			
Software Version	•	MCU:40201 WIFI:3.00015.2			
Hardware Version	:	PF300-MCU-V1.0 PF300-UI-V1.0			
Connecting I/O Port(S)		Please refer to the User's Manual			

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MPE Calculations for WIFI

1. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2. 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

3. 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 ≤ 1.0.

This means that:

∑ of MPE ratios ≤ 1.0

4. Test Result:

2.4G WiFi worst reported.

Mode	Frequency (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]	Limit of Power Density (mW/ cm ²) (S)
	2412	17.184	17±1	18	2.54	20	0.02253	1
802.11b	2437	17.864	17±1	18	2.54	20	0.02253	1
	2462	17.179	17±1	18	2.54	20	0.02253	1
	2412	16.724	16±1	17	2.54	20	0.01790	1
802.11g	2437	16.640	16±1	17	2.54	20	0.01790	1
	2462	16.846	16±1	17	2.54	20	0.01790	1
000.44	2412	16.456	16±1	17	2.54	20	0.01790	1
802.11 n(HT20)	2437	16.608	16±1	17	2.54	20	0.01790	1
11(11120)	2462	16.285	16±1	17	2.54	20	0.01790	1





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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 2.4WIFI:2412~2462 MHz and Bluetooth LE

MPE limit S: 1mW/ cm²

The MPE is calculated as 0.02253 < 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----

