

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202404-0185-5 Page: 1 of 5

Maximum Permissible Exposure Evaluation

FCC ID:2BK8O-D05E

1. General Information about EUT

1.1 Client Information

Applicant : Shenzhen TBZ Technology Co.,LTD.			
Address : C808,ZiGuang Information H City.Guangdong,China		C808,ZiGuang Information Harbor,Nanshan District,ShenZhen City.Guangdong,China	
Manufacturer : Shenzhen TBZ Techn		Shenzhen TBZ Technology Co.,LTD.	
Address		C808,ZiGuang Information Harbor,Nanshan District,ShenZhen City.Guangdong,China	

1.2 General Description of EUT (Equipment Under Test)

EUT Name		PuppyGo3 AI Dog			
Models No.	:	D05E			
Model Different		N/A			
Brand Name	÷	N/A			
Sample ID	:	HC-C-202404-0185-01-01			
Product Description		Operation Frequency:	Bluetooth&BLE: 2402MHz~2480MHz 2.4G: 2401MHz~2470MHz 802.11b/g/n(HT20): 2412MHz~2462MHz		
Power Rating		USB Input: DC 5V DC 3.7V 800mAh Rechargeable Li-ion battery			
Software Version	-	1.6.0			
Hardware Version		TBZ_DO5_MAIN_V1.1 20231023			

TB-RF-074-1.0



1.3 Antenna Information

Band	Antenna Type	Antenna Gain(dBi)	
2.4G PCB		1.3dBi	
Bluetooth&BLE PCB		2.85dBi	

Remark: The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



2. Method of Measurement for FCC

EUT Operation Condition:

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

1. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

S=(PG)/4πR²

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:

 \sum of MPE ratios ≤ 1.0



2. Test Result:

Worst MPE Result							
Test Mode	Antenna	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	Max. ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
Bluetooth	Ant1	6.845	6±1	7	2.85	20	0.00192
2.4G	Ant1	4.053	4±1	5	1.3	20	0.00085
2.4G WIFI	Ant1	14.69	14±1	15	2.85	20	0.01213
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Note: The antenna gain used max. antenna gain



3. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Frequency Range (MHz)	Power density (mW/ cm ²)	
300-1,500	F/1500	
1,500-100,000	1.0	

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4. Summary simultaneous transmission results

2.4G and WiFi support Synchronization transmitther

5	Maximum MPE ratio	Maximum MPE ratio _{WiFi}	∑MPE ratios	Limit	Results	
	0.00085	0.01213	0.01298	1	PASS	

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.

For: 2402~2480MHz&2412~2462MHz&2401-2470MHz MPE limit S: 1mW/ cm² The MPE is calculated as $0.01298mW / cm^2 < limit 1mW / cm^2$.

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