

Shenzhen Toby Technology Co., Ltd.



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Maximum Permissible Exposure Evaluation

FCC ID:2BKRO-MOTO

1. Client Information

Applicant	:	IZILLA LIMITED
Address	i	Newton House, 2 Pioneer Court, Histon, Cambridge, CB24 9PT
Manufacturer		Jiangxi Jiayinking Culture Technology Company Limited
Address		K3-17, Electronical Information Science and Technology Park, Longnan Technical Economic Development Area, Ganzhou City, Jiangxi Province, China

2. General Description of EUT

EUT Name	:	Turntable			
Models No.		Majority Moto Turntable, TT249-4, TT249-4A, TT249-5, TT249-5A, TT249-6, TT249-6A, TT249-7, TT249-7A, TT249-8, TT249-8A, TT249-9, TT249-9A, 1000002931,1000002932			
Model Different		All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name, brand name and product name.			
Brand Name	: 1	: N/A			
Sample ID	: HC-C-202408-0106-01-01&HC-C-202408-0106-02-01				
Product Description		Operation GFSK(1Mbps) π /4-DQPSK(2Mbps) 8DPSK(3Mbps)			
Power Rating		Adapter:(XB6B-0501000U) Input: 100-240V~, 50/60Hz 0.8A Output: 5.0V=1.0A			
Software Version	vare Version : V1.0				
Hardware Version	vare Version : V2.0				
Remark		The antenna gain provided by the manufacturer, the verified for the RF conduction test provided by TOBY test lab.			

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Method of Measurement for FCC

1. Max. Antenna Gain:

Mode	Antenna Type	Antenna Gain(dBi)
Bluetooth	PCB	0

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

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



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4. Test Result:

Worst MPE Result							
Test Mode	Frequency (MHz)	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]
11:10	2402	0.671	0±1	1	0	20	0.00025
BT 1M	2441	1.666	1±1	2	0	20	0.00032
	2480	2.246	2±1	3	0	20	0.00040
	2402	1.591	1±1	2	0	20	0.00032
BT 2M	2441	2.512	2±1	3	0	20	0.00040
	2480	3.017	3±1	4	0	20	0.00050
QUIT.	2402	2.037	2±1	3	0	20	0.00040
BT 3M	2441	2.92	2±1	3	0	20	0.00040
	2480	3.389	3±1	4	0	20	0.00050
Note: The a	ntenna gain	used max. antenna	gain	M. C.			

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: 2402~2480MHz MPE limit S: 1mW/ cm²

The MPE is calculated as 0.00050mW/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.

----END OF REPORT----

