

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202309-0053-11

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RF Exposure Evaluation

FCC ID: 2ANXU-TT517-13

1. Client Information

Applicant	: Shenzhen Jiayinking Technology Holding Company Limited						
Address		1102, workshop 1, Tianan Digital Innovation Park, No. 524, Qinglin Road, huanggekeng community, Longcheng street, Longgang District, Shenzhen, China					
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	:	Wooden box record player					
Model(s) No.		TT517-13					
Series Model No.	:	Stylus N10, TT517-3					
Model Different		All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance and model name.					
Sample ID	:	HC-C-202309-0053-01-01-1#&HC-C-202309-0053-01-01-2					
	9	Operation Frequency:	Bluetooth 5.0: 2402MHz~2480MHz				
Product Description		Number of Channel: 79 channels					
	9	Antenna Gain:	3.38dBi PCB Antenna				
Power Supply		Adapter #1(MC24A-120200U) Input: 100~240V~50/60Hz 0.75A MAX Output: 12.0V-2.0A Adapter #2(GKYZD0200120US) Input: 100~240V~50/60Hz 0.8A MAX Output: 12.0V-2.0A					
Software Version		1.0					
Hardware Version	:	1.0					

Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

Note: More test information about the EUT please refer the RF Test Report.

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The RF Exposure Evaluation for FCC:

SAR Test Exclusion Calculations

FCC: According to 447498 D04 Interim General RF Exposure Guidance v01.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	Distance (mm)										
		- 5	10	15	20	25	30	35	40	45	50
(Z)	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
enc	1900	3	12	26	44	66	92	122	157	195	236
Frequency	2450	3	10	22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169





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Calculation:

		BI	luetooth Mode (GFSK)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Limit Pth(mW)	
2.402	2.50	2±1	3	1.995		
2.441	3.34	3±1	4	2.512	3	
2.480	1.93	1±1	2	1.585	3	
A W		Bluet	tooth Mode (π/4-DQPSK)	AND A	MUL	
Frequency Conducted Power (dBm)		Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Limit P _{th} (mW)	
2.402	2.35	2±1	3	1.995	3	
2.441	3.35	3±1	4	2.512	3	
2.480	2.00	2±1	3	1.995	3	
		Blu	uetooth Mode (8-DPSK)			
2.402	2.37	2±1	3	1.995	3	
2.441	3.37	3±1	4	2.512	3	
2.480	1.90	1±1	2	1.585	3	

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