

## Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202206-0362-9

Page: 1 of 3

# **RF Exposure Evaluation**

## FCC ID: 2A7ZM-SPIRITOH11

## 1. Client Information

Applicant		JBU GLOBAL LLC					
Address		19416 NE 26th Ave, 114B, Miami, Florida 33180					
Manufacturer	÷	SHENZHEN KOVIKE TECHNOLOGY CO., LTD					
Address : Room 1313-068, Jiapei Community		Room 1313-068, Overseas Lianyi Building, No.12, Yingchun Road, Jiapei Community, Nanhu Street, Luohu District, Shenzhen.China.					

## 2. General Description of EUT

EUT Name		Spirito H11						
Model(s) No.	600	Spirito H11						
Model Different	16	- mas						
Sample ID		202206-0362-5-1# & 2	02206-0362-5-1# & 202206-0362-5-2#					
Product Description	e Pa	Operation Frequency:	Bluetooth 5.0: 2402MHz~2480MHz					
		Number of Channel:	Bluetooth 5.0: 79 channels					
Doddingulari		Antenna Gain:	-0.68dBi PCB Antenna					
Power Supply	<b>)</b> :	Input: DC 5V/1A DC 3.7V by 2200mAh Rechargeable Li-ion battery						
Software Version		BT5.0						
Hardware Version								

**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.



Page: 2 of 3

#### 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 Pth (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). Pth 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)

					Dis	stance	(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



Report No.: TBR-C-202206-0362-9

Page: 3 of 3

#### **Calculation:**

Test separation: 5mm

		В	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 P <sub>th</sub> (mW)	
2.402	2.05	2±1	3	1.995	3	
2.441	1.197	1±1	2	1.585	3	
2.480	-0.176	0±1	1	1.259	3	
<u>'</u>		Bluet	tooth Mode (π/4-DQPSK)			
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 P <sub>th</sub> (mW)	
2.402	2.132	2±1	3	1.995	3	
2.441	1.146	1±1	2	1.585	3	
2.480	-0.02	0±1	1	1.259	3	
		Blu	uetooth Mode (8-DPSK)			
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 P <sub>th</sub> (mW)	
2.402	2.728	3±1	4	2.512	3	
		4.1.4	0	4.505	2	
2.441	1.317	1±1	2	1.585	3	

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