# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE145106

Page: 1 of 3

# RF Exposure Evaluation FCC ID: 2AFNM-JT2681

## 1. Client Information

Applicant : Shenzhen Jinruitai Electronics Co.,Ltd

Address: 4F, Building A, Taixinglong Industrial Town, Zhongwu Xixiang,

Baoan District, Shenzhen City, GuangDong Province, China

Manufacturer : Shenzhen Jinruitai Electronics Co.,Ltd

Address : 4F, Building A, Taixinglong Industrial Town, Zhongwu Xixiang,

Baoan District, Shenzhen City, GuangDong Province, China

2. General Description of EUT

<b>EUT Name</b>	:	Waterproof Bluetooth Speaker				
Models No.	:	JT2681				
Model difference	1	N/A				
Product Description		Operation Frequency: Bluetooth:2402~2480MHz				
		Number of Channel:	Bluetooth:79 Channels			
		Max Peak Output Power:	Bluetooth: 2.111 dBm(GFSK)			
		Antenna Gain:	-0.68 dBi PCB Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)			
Power Supply	-	DC Voltage supplied from Host System by USB cable DC power by Li-ion Battery				
Power Rating	: ]	DC 5.0V by USB cable. DC 3.7V Li-ion Battery.				
Connecting I/O Port(S)		Please refer to the User's Manual				

#### Note:

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

TB-RF-074-1. 0

Tel: +86 75526509301 Fax: +86 75526509195



Report No.: TB-MPE145106

Page: 2 of 3

#### **SAR Test Exclusion Calculations**

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations
  - 1)The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]\*[  $\sqrt{f_{(GHz)}}$  ]  $\leq$ 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]\*[  $\sqrt{f_{(GHz)}}$  ]  $\leq$ 7.5.0 for 10-g SAR



Report No.: TB-MPE145106

Page: 3 of 3

# 2.

## Calculation:

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Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.099	±0.5	1.819	0.564	3.0
2.441	2.111	±0.5	1.824	0.570	3.0
2.480	2.035	±0.5	1.793	0.565	3.0
		Bluetooth Mode (π	/4-DQPSK)	CALLES TO	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	1.251	±0.5	1.497	0.464	3.0
2.441	1.249	±0.5	1.496	0.467	3.0
2.480	1.207	±0.5	1.481	0.467	3.0
73	CIII DE	Bluetooth Mode	(8-DPSK)		33
requency Conducted Power (dBm)		Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	1.294	±0.5	1.511	0.469	3.0
2.441	1.258	±0.5	1.499	0.468	3.0
2.480	1.215	±0.5	1.484	0.467	3.0

So standalone SAR measurements are not required.