

**Report No. : FA351401** 

# **RF Exposure Evaluation Report**

APPLICANT : Power Idea Technology Limited

**EQUIPMENT**: Push To Talk with Bluetooth audio link

BRAND NAME : RugGear

**MODEL NAME**: Bluetooth PTT Remote Speaker Microphone

FCC ID : ZLE3103

STANDARD : 47 CFR Part 2.1093

FCC KDB 447498 D01 v05r01

We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093 and pass the limit. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

Cole huan

Approved by: Jones Tsai / Manager

#### SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

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# **Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA351401	Rev. 01	Initial issue of report	Dec. 18, 2013

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# 1. Administration Data

# 1.1 Testing Laboratory

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.						
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755- 3320-2398						

### 1.2 Applicant

Company Name	Power Idea Technology Limited						
Address	4th Floor, A Section, Languang Science&technology, Xinxi RD, Hi-Tech						
	Industrial Park North, Nanshan, ShenZhen, China						

### 1.3 Manufacturer

Company Name	Power Idea Technology Limited						
Address	4th Floor, A Section, Languang Science&technology, Xinxi RD, Hi-Tech						
	Industrial Park North, Nanshan, ShenZhen, China						

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## 2. General Information

### 2.1 Description of Device Under Test (DUT)

Product Feature & Specification					
DUT Type	Push To Talk with Bluetooth audio link				
Brand Name	RugGear				
Model Name	Bluetooth PTT Remote Speaker Microphone				
FCC ID	ZLE3103				
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz				
Mode	Bluetooth v3.0 + EDR				
Antenna Type	Ceramic Chip Antenna				
HW Version	RTKRSM0 2.0 20130325				
SW Version	RTKRSM0 1.0 20130502				
DUT Stage	Identical Prototype				

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Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 3. Maximum RF output power among production units

	Average Power (dBm)				
Mode / Band	1Mbps	2Mbps	3Mbps		
	(GFSK)	π/4-DQPSK	(8-DPSK)		
2.4GHz Bluetooth	-4	-8	-7.5		

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#### 3.1 Applied Standard

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### 4. Conducted RF Output Power (Unit: dBm)

#### <Bluetooth Conducted Power>

Bluetooth Average Power (dBm)										
Channal	Frequency	Data Rate								
Channel	(MHz)	DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5
CH 00	2402	-7.72	-7.70	-7.84	-10.37	-10.89	-11.13	-10.22	-10.85	-11.11
CH 39	2441	-5.15	-4.72	-4.84	-8.52	-8.78	-8.99	-8.42	-8.76	-9.01
CH 78	2480	<mark>-4.39</mark>	-4.44	-4.40	-8.14	-8.65	-8.42	-7.90	-8.73	-8.46

### 5. RF Exposure Evaluation

Bluetooth Max Power (dBm)	mW Test Distance (mm)		Frequency (GHz)	Exclusion Thresholds	
-4	0.40	5	2.48	0.13	

#### Note:

 Per KDB 447498 D01v05r01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR

- f(GHz) is the RF channel transmit frequency in GHz
- · Power and distance are rounded to the nearest mW and mm before calculation
- · The result is rounded to one decimal place for comparison
- · If the test separation distance (antenna-user) is < 5mm, 5mm is used for excluded SAR calculation

**Conclusion:** According to KDB 447498 D01v05r01 exclusion thresholds is 0.13 < 3, RF exposure evaluation is not required.

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