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# **RF Exposure Evaluation**

FCC ID:2AZWI-3493LEQI IC: 27649-3493LEQI

## 1. Client Information

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Applicant	1	Shenzhen Leqi Network Technology Co., LTD				
Address		Rooms 103, 501 and 601, Building 5, Fenghe Industrial Park, Nos. 1301-50 Guanguang Road, Longhua District, Shenzhen, Guangdong, China.				
Manufacturer	a	Shenzhen Leqi Network Technology Co., LTD				
Address		Rooms 103, 501 and 601, Building 5, Fenghe Industrial Park, Nos. 1301-50 Guanguang Road, Longhua District, Shenzhen, Guangdong, China.				

## 2. General Description of EUT

<b>EUT Name</b>	1	Wireless Lavalier Microphone				
HVIN/Model(s)		Wave W2-C, Wave W2, Wave W2-L				
Model Different		All these models are identical in the same PCB layout and electrical circuit, the only difference is that names.				
TOP		Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz			
		Number of Channel:	Bluetooth 4.0 (BLE): 40 channels			
Product		RF Output Power: BLE: 2.971dBm (Max)				
Description	:	Antenna Gain:	1.4 dBi FPC Antenna			
		Modulation Type:	GFSK			
		Bit Rate of Transmitter:	1/2Mbps			
Power Supply		Input: DC 5V, 1A DC 3.7V by 100mAh Rechargeable Li-ion battery				
<b>Software Version</b>	1	V1.1				
Hardware Version	13.	V1.0				

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

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (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





### 2. Calculation:

Test separ	ration: 5mm									
BLE 1Mbps										
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value				
2.402	2.506	3±1	4	2.512	0.779	3.0				
2.440	2.456	2±1	3	1.995	0.623	3.0				
2.480	2.95	3±1	4	2.512	0.791	3.0				
	Will S	A HAUL	BLE 2Mbps			015)				
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value				
2.402	2.645	3±1	4	2.512	0.779	3.0				
2.440	2.539	3±1	4	2.512	0.785	3.0				
2.480	2.971	3±1	4	2.512	0.791	3.0				

#### Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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