



# **RF EXPOSURE REPORT**

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Applicant	:	PEAG, LLC dba JLab Audio	
Address of Applicant	-	5927 LANDAU CT, Carlsbad, CA 92008, United States	
Manufacturer	:	GuangDong Simpreal Intelligent Technology Co., Ltd	
Address of Manufacturer	•	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China	
Equipment under Test		Wireless Headset	
Model No.	••	Nightfall Wireless	
FCC ID	•	2AHYV-NFALL	
Test Standard(s)	•	KDB447498 D01 General RF Exposure Guidance v06	
Report No.		DDT-RE24040228-1E03	
Issue Date		2024/09/27	
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808	



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# **Test Report Declare**

Applicant	:	PEAG, LLC dba JLab Audio		
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Model No.	:	Nightfall Wireless		
Manufacturer		GuangDong Simpreal Intelligent Technology Co., Ltd		
Address of Manufacturer		Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China		

#### **Test Standard Used:**

KDB447498 D01 General RF Exposure Guidance v06

### We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24040228-1E03		
Date of Receipt:	2024/07/18	Date of Test:	2024/07/18~2024/09/27
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Prepared By: Approved By:

Zigin Chen/Engineer

Damon Mu

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

# **Revision History**

Rev.	Revisions	Issue Date	Revised By
	Initial issue	2024/09/27	®
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# 1. General Test Information

# 1.1. Description of EUT

EUT Name	:	Wireless Headset
Model Number	:	Nightfall Wireless
Difference of model number	:	/ 51
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 5V by an external adapter or DC 3.7V built-in lithium battery
Hardware Version	:	v0.6
Software Version	:	v1.0.2.2

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

"⊠" means to be chosen or applicable; "□" means don't to be chosen or not applicable; This note applies to entire report.

#### 1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
	/		1

## 1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

# 2. RF Exposure evaluation for FCC

# 2.1. Assessment procedure

According to 447498 D01 General RF Exposure Guidance v06

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, where:

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

### 2.2. Assess result

### **Manufacturing Tolerance:**

#### BT:

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance ±(dB)
		2402	-3	1
GFSK (Peak)	Ant1	2441	-3	1
(8)		2480	-3	1
		2402	-11.5	1
π/4DQPSK (Peak)	Ant1	2441	-12	1
		2480	-11.5	1

#### **2.4G SRD**

Mode	Antenna	Frequency [MHz]	Target Power	Tolerance ±(dBm)
21		2402	-2.5	1
GFSK 2M(Peak)	Ant1	2440	-2.5	1
		2480	-2.5	1

Note: BLE and 2.4G SRD don't support synchronous transmission.

#### **Estimtion Result:**

Worse case is as below: [2480 MHz, -1.5 dBm, (0.71 mW) output power]

(0.71/5):  $[\sqrt{2.480}(GHz)] = 0.223 < 3.0$  for 1-g SAR

Then SAR evaluation is not required.

