



RF EXPOSURE REPORT

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 Keyboard
Model No.	:	Epic Mechanical Keyboard
FCC ID	:	2AHYV-EMKEYB
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE24020108-1E03
Issue Date	:	2024/09/30
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

Table of Contents

1. General Test Information.....5

1.1. Description of EUT5

1.2. Accessories of EUT5

1.3. Test laboratory5

2. RF Exposure evaluation for FCC.....6

2.1. Assessment procedure.....6

2.2. Assess result.....6

Test Report Declare

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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-RE24020108-1E03		
Date of Receipt:	2024/04/29	Date of Test:	2024/04/29~2024/09/30

Prepared By:

Ziqin Chen
Ziqin Chen/Engineer

Approved By:

Damon Hu
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	2024/09/30	

1. General Test Information

1.1. Description of EUT

EUT Name	:	Wireless Keyboard
Model Number	:	Epic Mechanical Keyboard
Difference of model number	:	/
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

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
/	/	/	/

1.3. 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:

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

$f(\text{GHz})$ 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:

BLE:

Mode	Antenna	Frequency [MHz]	Target Power	Tolerance $\pm$ (dBm)
GFSK 1M(Peak)	Ant1	2402	7	1
		2440	7	1
		2480	6.5	1
GFSK 2M (Peak)	Ant1	2404	7	1
		2440	7	1
		2478	6.5	1

2.4G SRD:

Mode	Antenna	Frequency [MHz]	Target Power	Tolerance $\pm$ (dBm)
GFSK 2M(Peak)	Ant1	2402	-15.5	1
		2439	-16	1
		2479	-17	1

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

Estimation Result:

Worse case is as below: [2440 MHz, 8 dBm, (6.31 mW) output power]

$(6.31/5) \cdot [\sqrt{2.440(\text{GHz})}] = 1.971 < 3.0$ for 1-g SAR

Then SAR evaluation is not required.

-----End Report-----