COA 华夏准测

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RF Exposure Evaluation Report

Report No.: CQASZ20210500027EX-04

Applicant: Dongguan Lingjie Electronics & Technology Co., Ltd

Building A(Floor 1-4) and B(Floor 1-5), No. 16 Zhenxing North Road, Taiyuan

Address of Applicant: Community, Xiegang Town, Dongguan City, Guangdong Province, 523590,

P.R.C

Manufacturer: Dongguan Lingjie Electronics & Technology Co., Ltd

Address of Building A(Floor 1-4) and B(Floor 1-5), No. 16 Zhenxing North Road, Taiyuan Community, Xiegang Town, Dongguan City, Guangdong Province, 523590,

Manufacturer: P.R.C

Equipment Under Test (EUT):

Product: Wireless Keyboard

All Model: K911T, K922T, K901T, K933T, K913T, K902T, K903T, K921T, K923T, K912T

Test Model No.: K911T

Brand Name: N/A

FCC ID: 2ANBU-K911T

47 CFR Part 1.1307

Standards: 47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

Date of Test: Apr. 23, 2021 to May 10, 2021

Date of Issue: May 10, 2021

Test Result: PASS

Tested By: Lewis 2hou

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:

(Sheek Luo)



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date	
CQASZ20210500027EX-04	Rev.01	Initial report	May 10, 2021	



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3 General Information

3.1 Client Information

Applicant:	Dongguan Lingjie Electronics & Technology Co., Ltd		
Address of Applicant:	Building A(Floor 1-4) and B(Floor 1-5), No. 16 Zhenxing North Road, Taiyuan Community, Xiegang Town, Dongguan City, Guangdong Province, 523590, P.R.C		
Manufacturer:	Dongguan Lingjie Electronics & Technology Co., Ltd		
Address of Manufacturer:	Building A(Floor 1-4) and B(Floor 1-5), No. 16 Zhenxing North Road, Taiyuan Community, Xiegang Town, Dongguan City, Guangdong Province, 523590, P.R.C		

3.2 General Description of EUT

	<u> </u>
Product Name:	Wireless Keyboard
Test Model No.:	K911T
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.8
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
EUT Power Supply:	battery: 3.0V(2*1.5V)

3.3 General Description of 2.4G

Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	16
Fixed frequency mode	Combine buttons to enter engineering mode
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Antenna Type:	PCB antenna

3.4 General Description of EDR

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V3.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Antenna Type:	PCB antenna



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3.5 General Description of BLE

Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps(Test software see page 6)
Number of Channel:	40
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	0dBi



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4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 **Limits**

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 ≤ 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 calculation17

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion



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4.1.3 EUT RF Exposure Evaluation

1) For 2.4G

Antenna Gain: 0dB

Measurement Data

		GFSK mode		
Test Channel	Peak Output Power Tune up tolerance		Maximum tune-up Power	
Test Chamilei	(dBm) (dBm)		(dBm)	(mW)
Lowest(2402MHz)	0.947	0±1	1	1.259
Middle(2441MHz)	0.871	0±1	1	1.259
Highest(2480MHz)	0.915	0±1	1	1.259

2) For BLE

<u></u>					
GFSK mode					
T 10	Peak Output Power Tune up tolerance		Maximum tune-up Power		
Test Channel	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-1.540	-1±1	0	1.00	
Middle(2440MHz)	-1.525	-1±1	0	1.00	
Highest(2480MHz)	-1.577	-1±1	0	1.00	

2) For EDR

GFSK mode					
	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
Test Channel	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-1.495	-1±1	0	1.00	
Middle(2441MHz)	-1.439	-1±1	0	1.00	
Highest(2480MHz)	-1.383	-1±1	0	1.00	

Worst case: Channel Channel Maximum Peak Conducted Output Power (dBm)	Conducted Tune (. Power		Calculated	Exclusion
	tolerance (dBm)	(dBm)	(mW)	value	threshold	
Lowest (2402MHz)	0.947	0±1	1	1.259	0.390	
Middle (2441MHz)	0.871	0±1	1	1.259	0.393	3.0
Highest (2480MHz)	0.915	0±1	1	1.259	0.397	

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210500027EX-01, CQASZ20210500027EX-02 and CQASZ20210500027EX-03