# **RF Exposure Evaluation**

# Test report On Behalf of Dongguan Lingjie Electronics & Technology Co., Ltd For Wireless Keyboard Model No.: K810

### FCC ID: 2ANBU-K810

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 Apr. 07, 2020 -- Apr. 16, 2020

 Date of Report:
 Apr. 16, 2020

I General Description of Lot				
Product Name:	Wireless Keyboard			
Model/Type reference:	K810			
Serial Model:	N/A			
Trade Mark:	N/A			
FCC ID	2ANBU-K810			
Hardware Version:	V3.0			
Software Version:	V1.8			
Operation frequency:	2403.85MHz to 2479.85MHz			
Channel separation:	≥3MHz			
Channel number:	16			
Modulation Technology:	GFSK			
Antenna Type:	PCB Antenna			
Antenna Gain:	0dBi			
Power Supply:	DC1.5V from AA battery			

#### 1 General Description of EUT

#### 2 **RF Exposure Compliance Requirement**

#### 2.1 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 and10-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.

#### 2.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances

 $\leq$  50 mm are determined by:

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

Where f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearset mW and mm before calcution The results 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 < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

# 3 EUT RF Exposure

## For 2.4G

GFSK								
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated	Exclusion		
			(dBm)	(mW)	value	threshold		
Lowest (2403.85MHz)	-3.788	-3±1	-2	0.631	0.196			
Middle (2441.85MHz)	-4.474	-4±1	-3	0.501	0.157	3.0		
Highest (24879.85MHz)	-4.916	-4±1	-3	0.501	0.168			
Conclusion: the calculated value $\leq$ 3.0, SAR is exempted.								

Remark: The Max Conducted Peak Output Power data refer to report Report No.: HK2004100593-E