

RF Exposure Evaluation

Test report
On Behalf of
Dongguan Lingjie Electronics & Technology Co., Ltd
For
wireless mouse
Model No.: E370, E380

FCC ID: 2ANBU-E370

Prepared for : **Dongguan Lingjie Electronics & Technology Co., Ltd**
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Date of Report: **Oct. 29, 2020**

1 General Description of EUT

Product Name	wireless mouse
Model/Type reference	E370
Serial Model:	E380
Trade Mark	N/A
FCC ID	2ANBU-E370
Hardware Version	VER2.0
Software Version	V1.0
Operation frequency	2402.85MHz—2480.85MHz
Channel separation:	$\geq 3\text{MHz}$
Channel number:	16
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	DC1.5V from AA battery

Note:

1. For more detailed features description, please refer to the Manual.

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 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.

2.2 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:

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

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 results is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402.85Hz)	-11.621	-12±1	-11	0.079	0.025	3.0
Middle (2441.85MHz)	-12.354	-12±1	-11	0.079	0.025	
Highest (2480.85MHz)	-12.731	-12±1	-11	0.079	0.025	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: HK2010273109-E