

FCC RF Exposure

EUT Description: ERGONOMIC WIRELESS BLUETOOTH MOUSE

Model No.: 2604735

FCC ID: 2BDUR-2604735

1. Limits

According to KDB 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:

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

Where:

$$\text{Result} = P/D * \sqrt{F}$$

F= the RF channel transmit frequency in GHz

P=Maximum turn - up power in mw

D=Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

BLE:

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separati on distance mm	Result	Limit (mW/cm ²)	SAR Test Exclusion
2402	2.96	2 ± 1	3/1.995	5	0.618	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2312015816-1E**, antenna gain= 3.78dBi

EDR:

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separati on distance mm	Result	Limit (mW/cm ²)	SAR Test Exclusion
2480	3.03	3±1	4/2.512	5	0.791	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2312015816-2E**, antenna gain= 3.78dBi

2.4G:

EIRP (dBm)=100.52(dBuV/m)-95.2=5.32(dBm)

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit (mW/cm ²)	SAR Test Exclusion
2480	5.32	5 ± 1	6/3.981	5	1.254	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2312015816-3E**, antenna gain= 3.78dBi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 1.254 which is ≤ 3, RF Exposure testing is not required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f_(GHz)]

f_(GHz) is the RF channel transmit frequency in GHz

Distance=5mm