RF Exposure Evaluation Report

1 RF EXPOSURE

Product Name: BEITONG KunPeng 40 Intelligent Gaming Controller
Model No.: BTP-KP40
FCC ID: 2AWMK-BTP-KP40

2. RF Exposure Evaluation

FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.
FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.
FCC CFR 47 part2 2.1093 Radiofrequency radiation exposure evaluation: portable devices.

2.1 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)] *[√f(GHz)] ≤ 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 calculation
- The result 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.

2.2 EUT RF EXPOSURE EVALUATION

Channel (MHz)	Conducted Power (dBm)	Tune up Tolerance (dBm)	Maximum tune-up Power		Calculated value	Limit
			(dBm)	(mW)		
BLE-2480MHz(1Mbps)	3.54	4.0±1	5.0	3.162	0.996	3.0
BLE-2480MHz(2Mbps)	3.61	4.0±1	5.0	3.162	0.996	3.0
2.4G-2404MHz	7.78	8.0±1	9.0	7.943	2.463	3.0

Max Calculated value 2.463 < 3.0, So there is no require SAR test
dbm=dbuv/m-95.2, so the 2.4G-2404MHz power is 102.98-95.2=7.78 dBm