

## FCC ID: VBM-TBDG1073B

### WLAN (Portable device)

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V05

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  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 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  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

Maximum measured transmitter power: 802.11b

Conducted Power (dBm)	Conducted Power (mw)	Max Antenna Gain (dBi)	EIRP (mw)
9.89	9.75	0	9.75

Maximum measured transmitter power: 802.11g

Conducted Power (dBm)	Conducted Power (mw)	Max Antenna Gain (dBi)	EIRP (mw)
9.01	7.96	0	7.96

Maximum measured transmitter power: 802.11n

Conducted Power (dBm)	Conducted Power (mw)	Max Antenna Gain (dBi)	EIRP (mw)
8.68	7.38	0	7.38

802.11b: 2412 MHz, 9.75mW; 802.11g: 2462 MHz, 7.96mW; 802.11n: 2462 MHz, 7.38mW

According  $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}]$ , the result of calculate as following:

802.11b: 0.30; 802.11g: 0.25; 802.11n: 0.23;

For the max 802.11b:  $0.3 \leq 3.0$  for 1-g SAR extremity SAR, No SAR is required.

**Conclusion:** No SAR is required.

Sincerely,



Signature

Company Name: SHENZHEN EMTEK CO., LTD.

Address: Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, China

david Lee/ Manager