

RF Exposure Evaluation

FCC ID: 2BDOW-TKW0126

According to KDB 447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a).

EUT Specification

Product Name:	Smart Watch
Trade Mark:	/
Model/Type Reference:	TK Watch
Listed Model(s):	Birdilens TK100, iTour TK100, iTourTranslator TK100, CaptionLens TK100, TK100, Tk200, TK300, TK400, Smart Watch
Model Differences:	All these models are identical in the same PCB, layout, electrical circuit and enclosure. The difference is the model name.
Frequency Band (Operating)	BT: 2402MHz ~ 2480MHz WIFI: 2412MHz ~ 2462MHz
Device Category	☒ Portable (<5mm separation) ☐ Mobile (>20cm separation) ☐ Fixed (>20cm separation) ☐ Others ____
Antenna Diversity	☐ Single antenna ☒ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Antenna Gain (Max)	BT: -6.52dBi WIFI: -6.53dBi

Limit

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

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 result is rounded to one decimal place for comparison

-The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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 according to 4.1 f) is applied to determine SAR test exclusion.

Measurement Result

Mode	Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up Power (dBm)	Result	Limit	Verdict
BLE 1M	2480	4.40	5.50	1.12	3.0	Pass
802.11B	2462	8.50	9.50	2.80	3.0	Pass

Note:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
3. For a more detailed features description, please refer to the RF Test Report.
4. Bluetooth and WiFi cannot transmit simultaneously.

*****THE END*****