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RF Exposure Evaluation

FCC ID: 2BH7H-SPARK

EUT Specification

Product Name:	Smart Watch
Trade Mark:	 东芯泰合（广州）科技有限公司
Model/Type reference:	Spark
Listed Model(s):	Spark-1, Spark-2, Spark-3
Model Different:	All these models are identical in the same PCB, layout and electrical circuit, The difference is shell color.
Operating Frequency band:	2402MHz~2480MHz
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:	-4.51dBi
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

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
8-DPSK	2480	1.63	2.5	0.198	3.0	Pass

Note:

For a more detailed features description, Please refer to the RF Test Report.

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