

RF Exposure Evaluation Result

For the
Beijing Techshino Technology Co., Ltd.
Bluetooth Fingerprint Reader
Model: TCS511
FCC ID: 2AGN6201511TCS511

REPORT# 15WB1111020F-M Rev 0


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RADIO FREQUENCY EXPOSURE COMPLIANCE RESULT :

Test Standard : FCC KDB Publication 447498 D01 V06 Clause 4.3.1,
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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 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 5) in section 4.1 is applied to determine SAR test exclusion.

According to the actual measurement,

EUT: Bluetooth Fingerprint Reader			
M/N: TCS511			
Test date: 2015-11-24		Pressure: 101.7±1.0kpa	Humidity: 52.5±1.0%
Tested by: Donjon_Huang		Test site: RF site	Temperature: 22.6±1.0 °C
Test Mode	Frequency (MHz)	Peak output Power (dBm)	Limit (dBm)
GFSK	2402	-1.45	30
	2441	-0.39	30
	2480	-1.84	30
8-DPSK	2402	1.41	30
	2441	1.73	30
	2480	1.07	30

max. power of channel, including tune-up tolerance = 1.489mW

min. test separation distance = 5mm

$\sqrt{f_{\text{(GHz)}}} = 1.562$

The test result is $0.465 \leq 3.0$ for 1-g SAR ≤ 7.5 for 10-g SAR, hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 : General RF Exposure Guidance V06.

Conclusion: PASS