



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Smart Scale
Model Name	T9150
FCC ID	2AOKB-T9150

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

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

3. CALCULATION

BLE: 1Mbps

$P_t = -0.674\text{dBm} = 0.86\text{mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (0.86\text{mW} / 5\text{mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.27 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE: 2Mbps

$P_t = -0.704\text{dBm} = 0.85\text{mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (0.85\text{mW} / 5\text{mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.26 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

2.4G WIFI

$P_t = 8.61\text{dBm} = 7.26\text{mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (7.26\text{mW} / 5\text{mm}) \cdot [\sqrt{2.48(\text{GHz})}] = 2.25 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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