



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Smart watch
Model Name	I32
Series Model	I30, I39Y, I69, BW327, BW328, I80, I82, I86, I89, I90, I92
FCC ID	2A54SI32

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

JL Chip BR&EDR:

$$P_t = -3.027 \text{ dBm} = 0.50 \text{ mW}$$

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 $\text{SAR} = (0.50 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.441 \text{ GHz}}] = 0.156 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

JL Chip BLE:

$$P_t = -4.181 \text{ dBm} = 0.38 \text{ mW}$$

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 $\text{SAR} = (0.38 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 0.119 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

8762 Chip BLE:

$$P_t = 6.906 \text{ dBm} = 4.90 \text{ mW}$$

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 $\text{SAR} = (4.90 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 1.539 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

JL Chip BR&EDR +8762 Chip BLE:

$$(0.156/3) + (1.539/3) = 0.565$$

Note: The JL Chip BR&EDR and 8762 Chip BLE can transmit simultaneously.

4. CONCLUSION

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