



## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	GENKI WAVEFORM
Model Name	HTGW-BDG
Series Model	HTGW-KUR, HTGW-SNS, HTGW-LUD, HTGW-GUN, HTGW-CAP, HTGW-EVA, HTGW-SEG, HTGW-USSP, HTGW-PUBG, HTGW-TWSP
FCC ID	2ARPB-HTGW

### 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  $\leq 50$  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  $\leq 7.5$  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

BR/EDR:

$$P_t = 3.100 \text{ dBm} = 2.04 \text{ mW}$$

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 SAR =  $(2.04 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.441 \text{ GHz}}] = 0.64 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BLE 1M:

$$P_t = -0.836 \text{ dBm} = 0.82 \text{ mW}$$

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 SAR =  $(0.48 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 0.26 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BLE 2M:

$$P_t = -0.786 \text{ dBm} = 0.83 \text{ mW}$$

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 SAR =  $(0.83 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 0.26 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### 4. CONCLUSION

The SAR evaluation is not required.

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