

## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

|                     |                       |
|---------------------|-----------------------|
| Product Description | Bluetooth USB Adapter |
| Model Name          | BT-06B                |
| FCC ID              | 2AU6EDNS-T002         |

### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

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:

$$P_t = 4.279\text{dBm} = 2.68\text{mW}$$

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  $\text{SAR} = (2.68\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 0.84 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BLE:

$$P_t = 7.174\text{dBm} = 5.22\text{mW}$$

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  $\text{SAR} = (5.22\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 1.64 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### 4. CONCLUSION

The SAR evaluation is not required.