

## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

|                     |                  |
|---------------------|------------------|
| Product Description | Bluetooth module |
| Model Name          | FSC-BT806        |
| FCC ID              | 2AMWOFSC-BT806   |

### 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:

$P_t = 9.295\text{dBm} = 8.5\text{mW}$

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  $\text{SAR} = (8.5\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 2.669 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BLE:

$P_t = 9.34\text{dBm} = 8.59\text{mW}$

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  $\text{SAR} = (8.59\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 2.697 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### 4. CONCLUSION

The SAR evaluation is not required.