RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	BLE
Model Name	DS-52832-01
FCC ID	2AV9TDS-52832-01

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f}(GHz)] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

GFSK-1M

Pt=-0.904dBm=0.81mW

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=(0.81mW /5mm) .[$\sqrt{2.402(GHz)}$]= 0.25<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

GFSK-2M

Pt=-1.037dBm=0.79mW

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=(0.30mW /5mm) .[$\sqrt{2.402(GHz)}$]= 0.24<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.