RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	BDE Bluetooth 5 Low Energy Module
Model Name	BDE-BLEM203D
FCC ID	2ABRU-BLEM203D

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)] $\left[\sqrt{f}(GHz)\right] \le 3.0$ 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

BLE 1M:

Pt=4.514dBm=2.83mW

The value of the Maximum output power Pt is referred to the test report of the CFR47

§15.247.

The result for RF exposure evaluation SAR=(2.83mW /5mm) .[$\sqrt{2.440(GHz)}$]= 0.88<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

BLE 2M:

Pt=4.659dBm=2.92mW

The value of the Maximum output power Pt is referred to the test report of the CFR47

§15.247.

The result for RF exposure evaluation SAR=(2.92mW /5mm) .[$\sqrt{2.402(GHz)}$]= 0.91<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.