RF Exposure evaluation

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)] • [$\sqrt{f(\text{GHz})}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

 $\ensuremath{\text{f}}\xspace(\text{GHz})$ is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Ant gain OdBi; so Ant numeric gain=1.0

For Bluetooth BR/EDR pt=8.006dBm =6.32mW at 2480MHz So $(6.32\text{mW}/5\text{mm}) \times \sqrt{2.48\text{GHz}} = 1.991 < 3$ For BLE pt=8.994dBm =7.93mW at 2480MHz So $(7.93\text{mW}/5\text{mm}) \times \sqrt{2.48\text{GHz}} = 2.498 < 3$

Then SAR evaluation is not required