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:

 $[(\max, power of channel, including tune-up tolerance, mW)/(min.test separation distance, mm)] \cdot [\,\checkmark$

f(GHz)] \leqslant 3.0 for 1-g SAR and \leqslant 7.5 for 10-g extremity SAR, where

 $f\left(\text{GHz}\right)$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest $\ensuremath{\mathtt{mW}}$ and $\ensuremath{\mathtt{mm}}$ before calculation

The result is rounded to one decimal place for comparison

Worse case of BT is as below: [2402 MHz -2.41dBm (0.574 mW) output power]

 $(0.574 \text{ mW} / 5 \text{mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.18 < 3.0 \text{ for } 1-\text{g SAR}$

Worse case of BLE is as below: [2402 MHz -5.35dBm (0.292 mW) output power]

 $(0.292 \text{ mW} / 5\text{mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.1 < 3.0 \text{ for } 1-\text{g SAR}$

Then SAR evaluation is not required