## 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)] • [ $\sqrt{f(GHz)}$ ]  $\leq$  3.0 for 1-g SAR and  $\leq$  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 The result is rounded to one decimal place for comparison

For Bluetooth BR/EDR

pt=7.138dBm =5.17mW at 2402MHz

So  $(5.17 \text{mW/5mm})x \sqrt{2.402 \text{GHz}} = 1.603 < 3$ 

For BLE

pt=5.474dBm =3.53mW at 2402MHz

So  $(3.53 \text{mW/5mm})x \sqrt{2.402 \text{GHz}} = 1.094 < 3$ 

For 2.4GHz wifi

pt=9.57dBm =9.06mW at 2462MHz

So  $(9.06 \text{mW/5mm})x \sqrt{2.462 \text{GHz}} = 2.842 < 3$ 

For 5GHz wifi

pt=6.47dBm =4.44mW at 5180MHz

So  $(4.44 \text{mW/5mm})x \sqrt{5.180 \text{GHz}} = 2.021 < 3$ 

Then SAR evaluation is not required