## RF exposure evaluation

According to 447498 D01 General RF Exposure Guidance v05r02 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

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  $\le 7.5$  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

The worst case for Bluetooth as below:

[2402MHz: 0.30dBm (1.07 mW) output power] (1.07 mW /5mm)  $\cdot$  [  $\sqrt{2.402(GHz)}$ ]=0.33 <3.0 for 1-g SAR

The worst case for Bluetooth 4.0 as below: [2402MHz: -5.21dBm (0.30 mW) output power] (0.30 mW /5mm)  $\cdot$ [  $\sqrt{2.402(GHz)}$ ]=0.09 <3.0 for 1-g SAR

The worst case for WiFi as below: [2412MHz: 4.45dBm (2.79 mW) output power] (2.79mW /5mm)  $\cdot$ [  $\checkmark$  2.412(GHz)]=0.87 <3.0 for 1-g SAR

0.87+0.33=1.2<3.0 for 1-g SAR So SAR test is not required