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 ≤ 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

Worse case for 2.4GWi-Fi as below:

[2412MHz: 8.37dBm (6.87 mW) output power] (6.87 mW /5mm) \cdot [$\sqrt{2.412(GHz)}$]= 2.13 <3.0 for 1-g SAR So, SAR evaluation for 2.4GWi-Fi as below is not required

Worse case for BLE as below:

[2442MHz: 6.73dBm (4.71 mW) output power] (4.71 mW /5mm) \cdot [$\sqrt{2.442(GHz)}$]= 1.47 <3.0 for 1-g SAR So, SAR evaluation for BLE as below is not required

Worse case for Bluetooth as below: