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 ≤ 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 BT as below:

[2441MHz: 6.06dBm (4.04 mW) output power] (4.04 mW /3mm) • [√ 2.441(GHz)]=1.26 <3.0 for 1-g SAR

Worse case for WIFI as below:

[2437MHz: 5.43dBm (3.49 mW) output power]

 $(3.49 \text{ mW /5mm}) \cdot [\sqrt{2.437(GHz)}] = 1.10 < 3.0 \text{ for } 1-\text{g SAR}$