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 \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

Worse case for Bluetooth as below:
[2480MHz: 8.60dBm (7.24 mW) output power]
(7.24 mW /5mm) •[√ 2.480(GHz)]=2.28 <3.0 for 1-g SAR
So, SAR evaluation for Bluetooth is not required

Worse case for BLE as below:
[2442MHz: 7.16dBm (5.20 mW) output power]
(5.20 mW /5mm) •[√ 2.442 (GHz)]=1.63 <3.0 for 1-g SAR
So, SAR evaluation for BLE is not required

Worse case for WiFi as below:
[2437MHz: 8.41dBm (6.93 mW) output power]
(6.93mW /5mm) •[√ 2.437(GHz)]=2.16 <3.0 for 1-g SAR
So, SAR evaluation for WiFi is not required