



FCC ID:2BB7B-AT15

RF Exposure evaluation

According to 447498 D01 General RF Exposure Guidance v06

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Here,

Mode	Power (dBm)	Tune-up power (dBm)	Max Power (mW)	Frequency(MHz)	Min. Distance (mm)	Calc. thresholds	limit
2.4G Wi-Fi	7.54	7 \pm 1	6.31	2437	5	1.9701	3.0
BLE	2.12	2 \pm 1	2.00	2402	5	0.6199	3.0

Remark: BLE and 2.4G Wi-Fi can transmit at the same time

In the case of simultaneous launches for wifi and BT:

The Max Calc. Thresholds : BLE: 0.6199, Wi-Fi: 1.9701

BT and Wifi: $0.9795/3 + 1.9701/3 = 0.8633 \leq 1$

So a SAR test is not required