FCC ID: 2AI5N-RJ461AX

## **RF Exposure Evaluation**

According to KDB 447498 and part 2.1093, Unless specifically required by the *published RF exposure KDB procedures*, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding *SAR Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(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<sub>(GHz)</sub> 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, For WIFI

Max Power(dBm)	Max Power(mW)	Frequency(MHz)	Min. distance(mm)	Calc. thresholds	limit
7.34	5.42	2412	5	1.684	3.0

## For BT:

eirp = pt x gt = (EXd)2/30

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- 10((dBuV/m)/20)/106

d = measurement distance in meters (m)---3m

Sopt =  $(EXd)2/30 \times gt$ 

Ant gain=0dBi ;so Ant numeric gain=1

Field strength = 93.51 dBuV/m @3m So Pt={  $[10^{(93.51 /20)/10^6 x3]^2/30x1 }x1000 \text{ mW} = 0.673 \text{ mW}$ 

So ( 0.673 mW/5mm)x  $\sqrt{2.480 \text{ GHz}} = 0.2 < 3$ 

1.684+0.2=1.884<3