



## RF Exposure Evaluation

<b>FCC ID</b>	TFJ-NPOS15-W
<b>Model No.</b>	nPOS15-W
<b>RF Specification</b>	802.11 b/g/n-20/n-40 Bluetooth Dual Mode: V2.1+EDR/ V4.0 LE

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

### Calculation Formula:

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$r$  = distance between observation point and center of the radiator in cm



**Calculation Result:**

Mode	Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WIFI	2412~2462	14	25.1	3.5	20	0.0112	1
BT	2402~2480	6	4.0	3.5	20	0.0019	1

***Simultaneous Transmitting:***

$$0.0112 + 0.0019 = 0.0131 \text{ mW/cm}^2 \leq 1 \text{ mW/cm}^2.$$