# FCC 1.1307 (B) & §2.1091- MPE-BASED EXEMPTION

## **Applicable Standard**

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Report No.: 2401T36383E-RF-00

According to KDB 447498 D04 Interim General RF Exposure Guidance

### MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R <sup>2</sup> .
1.34-30	3,450 R <sup>2</sup> /f <sup>2</sup> .
30-300	3.83 R <sup>2</sup> .
300-1,500	0.0128 R <sup>2</sup> f.
1,500-100,000	19.2R <sup>2</sup> .

Ris the minimum separation distance in meters f = frequency in MHz

#### Result

Mode	Frequency (MHz)	Tune up conducted power#	Antenna Gain#		ERP		Evaluation Distance	ERP Limit
	,	(dBm)	(dBi)	(dBd)	(dBm)	(mW)	(m)	(mW)
2.4G Wi-Fi	2412-2462	24.5	4.45	2.30	26.80	478.63	0.2	768
5.2G Wi-Fi	5180-5240	11.0	4.95	2.80	13.80	23.99	0.2	768
5.3G Wi-Fi	5260-5320	11.0	4.95	2.80	13.80	23.99	0.2	768
5.6G Wi-Fi	5500-5700	10.0	4.95	2.80	12.80	19.05	0.2	768
5.8G Wi-Fi	5745-5825	9.0	4.95	2.80	11.80	15.14	0.2	768

Note 1: The tune-up power and antenna gain was declared by the applicant.

Note 2: 0dBd=2.15dBi.

Note 3: the 2.4G and 5G Wi-Fi cannot transmit at same time

#### **Result: Compliant**