FCC §15.247 (i) & §1.1307 (b) (3) & §2.1091- RF Exposure

Applicable Standard

According to subpart 15.247 (i) and 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.

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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.

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

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

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

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Result

Frequency (MHz)	Tune up conducted power	Antenna Gain		ERP		Evaluation Distance	ERP Limit (W)
,	(dBm)	(dBi)	(dBd)	(dBm)	(W)	(m)	
2412-2462	24.0	4.5	2.35	26.35	0.432	0.2	0.768
5150-5250	16.5	3.5	1.35	17.85	0.061	0.2	0.768
5250-5350	16.0	3.5	1.35	17.35	0.054	0.2	0.768
5470-5725	18.5	3.5	1.35	19.85	0.097	0.2	0.768
5725-5850	16.0	3.5	1.35	17.35	0.054	0.2	0.768

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Note: 1. The tune up conducted power and antenna gain was declared by the applicant. 2. The 2.4GHz wifi and 5GHz wifi cannot transmit at same time.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.