

## 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.

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	$1,920 R^2$ .
1.34-30	$3,450 R^2/f^2$ .
30-300	$3.83 R^2$ .
300-1,500	$0.0128 R^2f$ .
1,500-100,000	$19.2R^2$ .

R is the minimum separation distance in meters

f = frequency in MHz

### Result

Mode	Frequency (MHz)	Antenna Gain		Tune up conducted power (dBm)	ERP		Evaluation Distance (m)	ERP Limit (mW)
		(dBi)	(dBd)		(dBm)	(mW)		
Wi-Fi	2412-2462	2	-0.15	14	13.85	24.266	0.2	768

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

**Result: Compliance**