## RF EXPOSURE EVALUATION

## MAXIMUM PERMISSIBLE EXPOSURE (MPE)

## **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)(3)(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.					

19.2R<sup>2</sup>.

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

## Result

1,500-100,000

Mode	Frequency (MHz)	Tune up average Conducted power <sup>#</sup>	Antenna Gain <sup>#</sup>		ERP		Evaluation Distance	ERP Limit
		(dBm)	(dBi)	(dBd)	(dBm)	(mW)	(m)	
WIFI	2412-2472	14	0.63	-1.52	12.48	17.70	0.2	768

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

Result: Compliant.