# 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.

Report No.: RA230601-30842E-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  $\S$  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

Frequency	Antenna Gain		Tune up conducted power	ERP		Evaluation Distance	ERP Limit
(MHz)	(dBi)	(dBd)	(dBm)	(dBm)	(W)	(m)	(W)
2412-2472	1.3	-0.85	16.0	15.15	0.033	0.2	0.768

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

### **Result: Compliant**