

## RF EXPOSURE EVALUATION

### MPE-Based Exemption

#### 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)(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	$1,920 R^2$ .
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	$19.2 R^2$ .

R is the minimum separation distance in meters

f = frequency in MHz

### Result

Mode	Frequency (MHz)	Tune up conducted power <sup>#</sup> (dBm)	Antenna Gain <sup>#</sup>		ERP		Evaluation Distance (m)	ERP Limit (W)
			(dBi)	(dBd)	(dBm)	(W)		
BT	2402~2480	7.5	3.00	0.85	8.35	0.01	0.2	0.768
BLE	2402~2480	7.5	3.00	0.85	8.35	0.01	0.2	0.768
2.4G Wi-Fi	2412~2462	22.0	3.00	0.85	22.85	0.19	0.2	0.768
5.2G Wi-Fi	5150-5250	13.0	5.22	3.07	16.07	0.04	0.2	0.768
5.8G Wi-Fi	5725-5850	12.0	5.22	3.07	15.07	0.03	0.2	0.768

Note:

- 1) The tune up conducted power and antenna gain was declared by the applicant.
- 2) The BT, 2.4G and 5G Wi-Fi cannot simultaneous transmitting.

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

**Result: Compliant**