## RF EXPOSURE EVALUATION

## **MPE-Based Exemption**

## **Applicable Standard**

According to 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.: 2401Y99995E-RF-00C

According to KDB 447498 D04 Interim General RF Exposure Guidance V01

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.					
1,500-100,000	19.2R <sup>2</sup> .					

R is the minimum separation distance in meters f = f frequency in MHz

## Result

Mode	Frequency (MHz)	Tune up conducted power <sup>#</sup> (dBm)	Antenna Gain#		ERP		Evaluation	ERP
			(dBi)	(dBd)	(dBm)	(W)	Distance (m)	Limit (W)
Bluetooth	2402-2480	6.5	4.2	2.05	8.55	0.007	0.2	0.768
BLE	2402-2480	1	4.2	2.05	3.05	0.002	0.2	0.768
2.4G Wi-Fi	2412-2462	22	4.2	2.05	24.05	0.254	0.2	0.768
5.2G Wi-Fi	5180-5240	14	5.2	3.05	17.05	0.051	0.2	0.768
5.8G Wi-Fi	5745-5825	13.5	5.2	3.05	16.55	0.045	0.2	0.768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.

2. The BT, 2.4G Wi-Fi and 5G Wi-Fi cannot transmit at same time.

3. 0dBd=2.15dBi

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

**Result: Compliant.**