FCC §15.247 (i) & §1.1307 (b) (3) & §2.1091- 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 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	19.2R ² .			

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

Result

Mode	Frequency (MHz)	Tune up conducted power#	Antenna Gain#		ERP		Evaluation Distance	ERP Limit
		(dBm)	(dBi)	(dBd)	(dBm)	(mW)	(m)	(mW)
BT	2402-2480	6.0	0	-2.15	3.85	2.43	0.2	768
BLE	2402-2480	6.0	0	-2.15	3.85	2.43	0.2	768
2.4G Wi-Fi	2412-2472	23.0	3.42	1.27	24.27	267.30	0.2	768
5.2G Wi-Fi	5180-5240	17.0	2.96	0.81	17.81	60.39	0.2	768

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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.