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.

Report No.: SZNS220727-34205E-RFA

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)(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 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 .					

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

Result

Mode	Frequency (MHz)	Tune up conducted power	Antenna Gain		ERP		Evaluation Distance	ERP Limit (W)
		(dBm)	(dBi)	(dBd)	(dBm)	(W)	(m)	,
Zigbee	2405-2480	13	-1.0	-3.15	9.85	0.010	0.2	0.768
Wi-Fi	2412-2462	22.0	-1.0	-3.15	18.85	0.077	0.2	0.768

Note: The tune up conducted power and antenna gain was declared by the applicant. The Wi-Fi and Zigbee cannot transmit at same time

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

Result: Compliant.

Version 20: 2021-11-09 Page 11 of 59 FCC&RSS- 2.4G Wi-Fi