Shenzhen Accurate Technology Co., Ltd.

FCC §15.407 (f) & §1.1307 (b) (3) & §2.1091- RF Exposure

Applicable Standard

According to subpart 15.407 (f) 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)(1)(i)(C)] to support an exemptionfrom 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

Frequency (MHz)	Tune up conducted power	Antenna Gain		ERP		Evaluation Distance	ERP Limit (W)
· · · ·	(dBm)	(dBi)	(dBd)	(dBm)	(W)	(m)	
2412-2462	19.0	3.12	0.97	19.97	0.093	0.2	0.768
5150-5250	14.0	3.75	1.60	15.60	0.036	0.2	0.768
5725-5850	14.0	4.29	2.14	16.24	0.042	0.2	0.768

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

2. The 2.4GHz wifi and 5GHz wifi 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.

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