

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China

Job No.: 240205002GZU FCC ID: 2BE7S-VENUS

RF Exposure Compliance Requirement

Model no.: VENUS-S, VENUS-A, VENUS-G

1. Standard requirement

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E ² , H ² or S (minutes)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842/f	4.89/f	(900/f ²)*	6	
30-300	61.4	0.163	1.0	6	
300-1500			f/300	6	
1500-100000			5	6	

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E ² , H ² or S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f ²)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			F/1500	30	
1500-100000			1.0	30	

Note: f=frequency in MHz; *Plane-wave equivalent power density



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2. MPE Calculation Method

E (V/m)=(30*P*G)^{0.5}/d Power Density: Pd(W/m²)=E²/377 E=Electric Field (V/m) P=Peak RF output Power (W) G=EUT Antenna numeric gain (numeric) d= Separation distance between radiator and human body (m) The formula can be changed to Pd= (30*P*G)/(377*d²) From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

3. Calculated Result and Limit

WIFI:

Peak Output Power = 16.0dBm(max.value declared by client), antenna gain = 3.37dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2412-2462	2.173	16.0	39.81	0.0172	1	Complies

According to MPE test Exclusion condition in KDB 447498 (D01) General RF Exposure Guidance D01 v06, the MPE report is not required.

Test Location:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

All tests were performed at:

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China