1. RADIO FREQUENCY EXPOSURE

1.1. Limit

According to §1.1310 and §2.1091 RF exposure is calculated.

Table: Limits for General Population/Uncontrolled Exposure

Frequency Range	Power Density (S)
(MHz)	(mW/cm2)
0.3–1.34	*(100)
1.34–30	*(180/f ²)
30–300	0.2
300–1500	f/1500
1500-100,000	1.0

F = frequency in MHz

Maximum Permissible Exposure

The MPE was calculated at 20cm to show compliance with the power density limit.

 $S = PG/4\pi R^2$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna.

Note:

- 1. Manufacturer declared that the maximum antenna gain for Wi-Fi is 5dBi(Max.)
- 2. Manufacturer declared that the nearest distance between human and the EUT is 20cm.
- 3. Only record worst case data.

^{* =} Plane-wave equivalent power density

Test Mode	Channel	Frequency (MHz)	Power (dBm, AV)	Power Tune Up (dBm)
	Low	5180	15.05	15.0±1.0
802.11a	Middle	5220	15.48	15.0±1.0
	High	5240	15.78	15.0±1.0
	Low	5180	15.05	15.0±1.0
802.11n(HT20)	Middle	5220	15.96	15.0±1.0
	High	5240	16.10	16.0±1.0
802.11n(HT40)	Low	5190	15.16	15.0±1.0
	High	5230	15.32	15.0±1.0
	Low	5745	17.51	17.0±1.0
802.11a	Middle	5785	17.41	17.0±1.0
	High	5825	18.18	18.0±1.0
	Low	5745	16.87	16.0±1.0
802.11n(HT20)	Middle	5785	17.10	17.0±1.0
	High	5825	17.83	17.0±1.0
902 11p/LIT40\	Low	5755	15.97	15.0±1.0
802.11n(HT40)	High	5795	16.31	16.0±1.0

1.2 Test Results

Test Mode	Channel	Max. Tune Up Power (dBm, Average)	Max. Tune Up Power (mW)	Antenna gain (numeric)	MPE (mW/cm²)	Limit (mW/cm²)
	Low	16.0	39.81	3	0.02	1.0
802.11a	Middle	16.0	39.81	3	0.02	1.0
	High	16.0	39.81	3	0.02	1.0
	Low	16.0	39.81	3	0.02	1.0
802.11n(HT20)	Middle	16.0	39.81	3 0.02 1.0		
	High	17.0	50.12	3	0.03	1.0
902 11p(UT40)	Low	16.0	39.81	3	0.02	1.0
802.11n(HT40)	High	16.0	39.81	3	0.02	1.0
	Low	18.0	63.10	3	0.04	1.0
802.11a	Middle	18.0	63.10	3	0.04	1.0
	High	19.0	79.43	3	0.05	1.0
	Low	17.0	50.12	3	0.03	1.0
802.11n(HT20)	Middle	18.0	63.10	3	0.04	1.0
	High	18.0	63.10	3	0.04	1.0
902 44p/UT40)	Low	16.0	39.81	3	0.02	1.0
802.11n(HT40)	High	17.0	50.12	3	0.03	1.0

<u>HENZHEN</u>	LCS COMPLIANCE TESTING LABORATORY LTD.	FCC ID: 2AHAS-XHV1	Report No.: LCS170327206AE
		0./	
	Antenna Gain (typical): Wi-Fi: 5dBi,	3 (numeric)	
	Prediction distance: >=20cm		
	The power density level worst case limit.	at 20 cm is below the	e uncontrolled exposure
	mint.		