RADIO FREQUENCY EXPOSURE

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

* = Plane-wave equivalent power density

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 is 2.0dBi (Max.) for

2412~2462MHz (So the G for calculate the MPE is 1.58).

2. Manufacturer declared that the nearest distance between human and the EUT is 20cm.

3. Only record worst case data.

2 Test Results

Standalone MPE

Test	Channel	ANT Power (dBm)	ANT Max. Tune Up Power (dBm)	ANT Max. Tune Up Power (mW)	ANT MPE (mW/cm²)	Limit (mW/cm²)
802.11b	1	18.45	18.0±1.0	79.4328	0.0250	1.0
	6	18.65	18.0±1.0	79.4328	0.0250	1.0
	11	18.51	18.0±1.0	79.4328	0.0250	1.0
802.11g	1	18.22	18.0±1.0	79.4328	0.0250	1.0
	6	18.15	18.0±1.0	79.4328	0.0250	1.0
	11	18.05	18.0±1.0	79.4328	0.0250	1.0
802.11n20	1	17.32	17.0±1.0	63.0957	0.0198	1.0
	6	17.69	17.0±1.0	63.0957	0.0198	1.0
	11	17.88	17.0±1.0	63.0957	0.0198	1.0
802.11n40	3	17.25	17.0±1.0	63.0957	0.0198	1.0
	6	17.32	17.0±1.0	63.0957	0.0198	1.0
	9	17.08	17.0±1.0	63.0957	0.0198	1.0

Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

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