

9. MPE ESTIMATION

9.1. Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Note: F= Frequency in MHz

9.2. Estimation Result

EUT: Altai A8-Ein (ac) Super WiFi Base Station		
M/N:WA8011NAC		
Test date: 2015-09-29	Pressure: 101.2±1.0 kpa	Humidity: 53.4±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:23.7±0.6 °C

Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5745	13.57	22.75	20	100.00	0.4528
	5785	13.79	23.93	20	100.00	0.4764
	5825	13.93	24.72	20	100.00	0.4920
11n HT20	5745	14.15	26.00	20	100.00	0.5175
	5785	14.15	26.00	20	100.00	0.5175
	5825	13.91	24.60	20	100.00	0.4897
11n HT40	5755	14.03	25.29	20	100.00	0.5034
	5795	14.58	28.71	20	100.00	0.5714
11ac VHT20	5745	14.16	26.06	20	100.00	0.5187
	5785	14.03	25.29	20	100.00	0.5034
	5825	14.05	25.41	20	100.00	0.5058
11ac VHT40	5755	14.04	25.35	20	100.00	0.5046
	5795	14.64	29.11	20	100.00	0.5794
11ac VHT80	5775	11.33	13.58	20	100.00	0.2704

$$MPE = \frac{PG}{4\pi R^2} \quad (R=20 \text{ mm})$$