10. MPE ESTIMATION

10.1. 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

10.2. Estimation Result

EUT: Altai A8n (ac) Super WiFi Base Station		
M/N: WA8011NAC-X		
Test date: 2016-02-25	Pressure: 101.3±1.0 kpa	Humidity: 50.2±3.0%
Tested by: Donjon_Huang	Test site: RF site	Temperature:20.4±0.6 ℃

Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5745	14.63	29.04	20	100.00	0.5780
	5785	15.22	33.27	20	100.00	0.6621
	5825	15.35	34.28	20	100.00	0.6823
11n HT20	5745	14.25	26.61	20	100.00	0.5296
	5785	14.55	28.51	20	100.00	0.5675
	5825	14.45	27.86	20	100.00	0.5546
11n HT40	5755	15.38	34.51	20	100.00	0.6870
	5795	15.23	33.34	20	100.00	0.6637
11ac VHT20	5745	14.67	29.31	20	100.00	0.5834
	5785	14.86	30.62	20	100.00	0.6095
	5825	15.01	31.70	20	100.00	0.6309
11ac VHT40	5755	14.87	30.69	20	100.00	0.6109
	5795	14.96	31.33	20	100.00	0.6237
11ac VHT80	5775	15.02	31.77	20	100.00	0.6323

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