

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 A3c Indoor Dual-band 3X3 802.11ac WiFi AP		
M/N: WA3311NAC-C		
Test date: 2016-01-27	Pressure: 101.3±1.0 kpa	Humidity: 53.9±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:23.6±0.6

Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5745	26.60	457.09	6	3.98	0.3622
	5785	26.70	467.74	6	3.98	0.3706
	5825	26.52	448.75	6	3.98	0.3556
11n HT20	5745	26.15	412.10	6	3.98	0.3266
	5785	26.27	423.64	6	3.98	0.3357
	5825	26.36	432.51	6	3.98	0.3427
11n HT40	5755	26.22	418.79	6	3.98	0.3319
	5795	26.09	406.44	6	3.98	0.3221
11ac VHT20	5745	26.09	406.44	6	3.98	0.3221
	5785	26.42	438.53	6	3.98	0.3475
	5825	26.07	404.58	6	3.98	0.3206
11ac VHT40	5755	26.24	420.73	6	3.98	0.3334
	5795	26.16	413.05	6	3.98	0.3273
11ac VHT80	5775	26.47	443.61	6	3.98	0.3515

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