

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

Frequency(MHz)	Power density (mW/ cm ²)	Averaging time(minutes)
2412	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz

10.2. Estimation Result

EUT: Altai A3w Indoor Dual-band 3X3 802.11ac WiFi AP		
M/N: WA3311NAC-W		
Test date: 2016-01-25	Pressure: 101.1±1.0kPa	Humidity: 52.7±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature: 22.8±0.6 °C

Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	25.48	353.18	10	10.00	0.7030
	CH6	2437	25.22	332.66	10	10.00	0.6621
	CH11	2462	25.18	329.61	10	10.00	0.6561
11g	CH1	2412	25.13	325.84	10	10.00	0.6486
	CH6	2437	25.17	328.85	10	10.00	0.6546
	CH11	2462	25.00	316.23	10	10.00	0.6294
11n HT20	CH1	2412	25.48	353.18	10	10.00	0.7030
	CH6	2437	25.37	344.35	10	10.00	0.6854
	CH11	2462	25.19	330.37	10	10.00	0.6576
11n HT40	CH3	2422	25.32	340.41	10	10.00	0.6776
	CH6	2437	25.66	368.13	10	10.00	0.7327
	CH9	2452	25.07	321.37	10	10.00	0.6397

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