

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: Complex Set-Top Box		
M/N: P2571		
Test date: 2014-12-20	Pressure: 101.3±1.0 kpa	Humidity: 49.6±3.0%
Tested by: kobe_huang	Test site: RF site	Temperature: 22.9±0.6℃

Correlated signal						
Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	18.63	72.95	4.13	2.59	0.0376
	CH6	18.59	72.28	4.13	2.59	0.0372
	CH11	17.95	62.37	4.13	2.59	0.0321
11g	CH1	17.55	56.89	4.13	2.59	0.0293
	CH6	18.69	73.96	4.13	2.59	0.0381
	CH11	17.59	57.41	4.13	2.59	0.0296
11n HT20	CH1	16.10	40.74	6.75	4.73	0.0384
	CH6	21.55	142.89	6.75	4.73	0.1346
	CH11	17.75	59.57	6.75	4.73	0.0561
11n HT40	CH3	13.14	20.61	6.75	4.73	0.0194
	CH6	18.47	70.31	6.75	4.73	0.0662
	CH9	13.51	22.44	6.75	4.73	0.0211
Uncorrelated signal						
11b	CH1	18.63	72.95	4.13	2.59	0.0376
	CH6	18.59	72.28	4.13	2.59	0.0372
	CH11	17.95	62.37	4.13	2.59	0.0321
11g	CH1	17.55	56.89	4.13	2.59	0.0293
	CH6	18.69	73.96	4.13	2.59	0.0381
	CH11	17.59	57.41	4.13	2.59	0.0296
11n HT20	CH1	16.10	40.74	3.75	2.37	0.0192
	CH6	21.55	142.89	3.75	2.37	0.0674
	CH11	17.75	59.57	3.75	2.37	0.0281
11n HT40	CH3	13.14	20.61	3.75	2.37	0.0097
	CH6	18.47	70.31	3.75	2.37	0.0332
	CH9	13.51	22.44	3.75	2.37	0.0106

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