MPE ESTIMATION

FCC ID: 2AN8Z- SONNET

1. Limit for General Population/Uncontrolled Exposures

Frequency	Power density(mW/cm2)	Averaging time(minutes)
300MHz---1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Note: F= Frequency in MHz

2. Estimation Result

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm^2)
11b	15.55	15±1(16)	16	39.81	0.50	1.12
11g	17.32	17±1(18)	18	63.10	0.50	1.12
11n/HT20	17.72	17±1(18)	18	63.10	0.50	1.12
11n/HT40	18.29	18±1(19)	19	79.43	0.50	1.12

Note: $Pd = \frac{Pout * G}{4\pi r^2}$

Note: The estimation distance is 20cm.

Note: PK Output power= conducted power.

Conducted power see the test report UNIA2018081011-2FR-01, antenna gain=0.5dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	1	14.97	31.41	0.50	1.12	0.007014
	6	15.55	35.89	0.50	1.12	0.008016
	11	15.03	31.84	0.50	1.12	0.007111
11g	1	16.18	41.50	0.50	1.12	0.009267
	6	17.32	53.95	0.50	1.12	0.012049
	11	16.73	47.10	0.50	1.12	0.010518
11n/HT20	1	16.38	43.45	0.50	1.12	0.009704
	6	17.72	59.16	0.50	1.12	0.013211
	11	16.84	48.31	0.50	1.12	0.010788
11n/HT40	3	17.44	55.46	0.50	1.12	0.012387
	6	18.29	67.45	0.50	1.12	0.015064
	9	17.97	62.66	0.50	1.12	0.013994

Note: $Pd = \frac{Pout * G}{4\pi r^2}$

Note: The estimation distance is 20cm.

Note: PK Output power= conducted power.

Conducted power see the test report UNIA2018081011-2FR-01, antenna gain=0.5dBi.

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