

MPE ESTIMATION
 FCC ID: 2ADFS-CZ911

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

2, Estimation Result

For 2.4G WIFI:

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	12.23	12±1(13)	19.95	1	1.2589	0.00500
11g	11.85	11±1(12)	15.85	1	1.2589	0.00397
11n/HT20	11.53	11±1(12)	15.85	1	1.2589	0.00397
11n/HT40	10.86	10±1(11)	12.59	1	1.2589	0.00315

$$Pd = \frac{P_{out} * G}{4\pi r^2};$$

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK180518316-E, antenna gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11b	CH1	11.23	13.27	1	1.2589	0.00333
	CH6	12.19	16.56	1	1.2589	0.00415
	CH11	12.04	16.00	1	1.2589	0.00401
11g	CH1	11.85	15.31	1	1.2589	0.00384
	CH6	11.66	14.66	1	1.2589	0.00367
	CH11	11.71	14.83	1	1.2589	0.00371
11n/HT20	CH1	11.53	14.22	1	1.2589	0.00356
	CH6	11.34	13.61	1	1.2589	0.00341
	CH11	11.26	13.37	1	1.2589	0.00335
11n/HT40	CH1	10.86	12.19	1	1.2589	0.00305
	CH4	10.57	11.40	1	1.2589	0.00286
	CH7	10.61	11.51	1	1.2589	0.00288

$$Pd = \frac{P_{out} * G}{4\pi r^2};$$

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK180518316-E, antenna gain=1dBi.

For 5.2G WIFI:

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)
11a	16.61	16±1(17)	39.81	1	1.2589	0.00998
11n/HT20	15.67	15±1(16)	31.62	1	1.2589	0.00792
11n/HT40	16.32	16±1(17)	39.81	1	1.2589	0.00998
11ac/HT20	15.89	15±1(16)	31.62	1	1.2589	0.00792
11ac/HT40	15.72	15±1(16)	31.62	1	1.2589	0.00792
11ac/HT80	15.47	15±1(16)	31.62	1	1.2589	0.00792

$$Pd = \frac{P_{out} * G}{4\pi r^2} :$$

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK180518317-E, antenna gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11a	CH36	16.61	45.81	1	1.2589	0.01148
	CH40	16.42	43.85	1	1.2589	0.01099
	CH48	16.29	42.56	1	1.2589	0.01066
11n/HT20	CH36	15.54	35.81	1	1.2589	0.00897
	CH40	15.67	36.90	1	1.2589	0.00925
	CH48	15.48	35.32	1	1.2589	0.00885
11n/HT40	CH38	16.25	42.17	1	1.2589	0.01057
	CH46	16.32	42.85	1	1.2589	0.01074
11ac/HT20	CH36	15.89	38.82	1	1.2589	0.00973
	CH40	15.64	36.64	1	1.2589	0.00918
	CH48	15.55	35.89	1	1.2589	0.00899
11ac/HT40	CH38	15.72	37.33	1	1.2589	0.00935
	CH46	15.38	34.51	1	1.2589	0.00865
11ac/HT80	CH42	15.47	35.24	1	1.2589	0.00883

$$Pd = \frac{P_{out} * G}{4\pi r^2} ;$$

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK180518317-E, antenna gain=1dBi.

For 5.8G WIFI:

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)
11a	16.38	16±1(17)	39.81	1	1.2589	0.00998
11n/HT20	15.84	15±1(16)	31.62	1	1.2589	0.00792
11n/HT40	16.35	16±1(17)	39.81	1	1.2589	0.00998
11ac/HT20	15.63	15±1(16)	31.62	1	1.2589	0.00792
11ac/HT40	16.34	16±1(17)	39.81	1	1.2589	0.00998
11ac/HT80	16.16	16±1(17)	39.81	1	1.2589	0.00998

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK180518317-E, antenna gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11a	CH149	16.38	43.45	1	1.2589	0.01089
	CH157	16.07	40.46	1	1.2589	0.01014
	CH165	16.24	42.07	1	1.2589	0.01054
11n/HT20	CH149	15.84	38.37	1	1.2589	0.00961
	CH157	15.77	37.76	1	1.2589	0.00946
	CH165	15.62	36.48	1	1.2589	0.00914
11n/HT40	CH151	16.27	42.36	1	1.2589	0.01062
	CH159	16.35	43.15	1	1.2589	0.01081
11ac/HT20	CH149	15.63	36.56	1	1.2589	0.00916
	CH157	15.49	35.40	1	1.2589	0.00887
	CH165	15.51	35.56	1	1.2589	0.00891
11ac/HT40	CH151	16.34	43.05	1	1.2589	0.01079
	CH159	15.72	37.33	1	1.2589	0.00935
11ac/HT80	CH155	16.16	41.30	1	1.2589	0.01035
$Pd = \frac{P_{out} * G}{4\pi r^2} ;$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power.						
Conducted power see the test report HK180518317-E, antenna gain=1dBi.						

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