MPE ESTIMATION

FCC ID: 2ADK2R8192EU5

1, Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/cm ²)	Averaging time(minutes)		
300MHz1.5GHz	F/1500	30		
1.5GHz100GHz	1.0	30		

Note: F= Frequency in MHz

2, Estimation Result

Mode	СН	PK Output	Output	Antenna	Antenna Gain	MPE
	СН	power(dBm)	power(mW)	Gain(dBi)	(linear)	(mW/cm²)
11b	CH1	15.48	35.32	1	1.2589	0.00885
	СН6	15.31	33.96	1	1.2589	0.00851
	CH11	15.69	37.07	1	1.2589	0.00928
11g	CH1	14.72	29.65	1	1.2589	0.00743
	СН6	14.58	28.71	1	1.2589	0.00719
	CH11	14.37	27.35	1	1.2589	0.00685
11n/HT20	CH1	14.22	26.42	1	1.2589	0.00662
	СН6	14.19	26.24	1	1.2589	0.00657
	CH11	14.21	26.36	1	1.2589	0.0066
11n/HT40	CH1	12.82	19.14	1	1.2589	0.00479
	CH4	12.75	18.84	1	1.2589	0.00472
	CH7	12.69	18.58	1	1.2589	0.00465

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power max is for antenna A.

PK Output power= conducted power.

Conducted power see the test report BZT-2014NT1101331F, antenna gain=1dBi.

Mode	СН	PK Output	Output	Antenna	Antenna Gain	MPE
		power(dBm)	power(mW)	Gain(dBi)	(linear)	(mW/cm²)
11b	CH1	14.72	29.65	1	1.2589	0.00743
	СН6	14.69	29.44	1	1.2589	0.00737
	CH11	14.37	27.35	1	1.2589	0.00685
11g	CH1	14.43	27.73	1	1.2589	0.00695
	CH6	14.29	26.85	1	1.2589	0.00672
	CH11	14.22	26.42	1	1.2589	0.00662
11n/HT20	CH1	13.89	24.49	1	1.2589	0.00613
	СН6	13.96	24.89	1	1.2589	0.00623
	CH11	13.89	24.49	1	1.2589	0.00613
11n/HT40	CH1	11.75	14.96	1	1.2589	0.00375
	CH4	11.83	15.24	1	1.2589	0.00382
	CH7	11.75	14.96	1	1.2589	0.00375

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power max is for antenna B.

PK Output power= conducted power.

Conducted power see the test report BZT-2014NT1101331F, antenna gain=1dBi.

Mode CF	CH	PK Output	Output	Directional	Antenna Gain	MPE
	СН	power(dBm)	power(mW)	Gain(dBi)	(linear)	(mW/cm²)
11n/HT20	CH1	17.07	50.93	4.01	2.5177	0.02551
	CH6	17.09	51.17	4.01	2.5177	0.02563
	CH11	17.06	50.82	4.01	2.5177	0.02546
11n/HT40	CH1	15.33	34.12	4.01	2.5177	0.01709
	CH4	15.32	34.04	4.01	2.5177	0.01705
	CH7	15.26	33.57	4.01	2.5177	0.01682

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power max is for antenna A and antenna B simultaneously transmit.

PK Output power= conducted power.

Conducted power see the test report BZT-2014NT1101331F, antenna gain=1dBi.

Directional gain = antenna gain + array gain =1+10log(2)=4.01

----The End-----