

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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RF Exposure Compliance Requirement

1. Standard requirement

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

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2. MPE Calculation Method

 $E (V/m) = (30^{\circ}P^{\circ}G)^{0.5}/d$ Power Density: $Pd(W/m^2) = E^2/377$

E=Electric Field (V/m)

P=Peak RF output Power (W)

G=EUT Antenna numeric gain (numeric)

d= Separation distance between radiator and human body (m)

The formula can be changed to

 $Pd = (30^{*}P^{*}G)/(377^{*}d^{2})$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

3. Calculated Result and Limit

<u>(1)</u>						
Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2402	1.000	7.22	5.272	0.00105	1	Complies
2441	1.000	7.65	5.821	0.00116	1	Complies
2480	1.000	7.45	5.559	0.00111	1	Complies

(2)

(2)						
Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2402	1.000	-5.88	0.258	0.00005	1	Complies
2442	1.000	-6.75	0.211	0.00004	1	Complies
2480	1.000	-8.18	0.152	0.00003	1	Complies

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(3)802.11b

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2412	1.000	23.03	200.909	0.03997	1	Complies
2442	1.000	24	251.189	0.04997	1	Complies
2462	1.000	23.2	208.930	0.04156	1	Complies

(4)802.11g

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2412	1.000	22.86	193.197	0.03843	1	Complies
2442	1.000	23.5	223.872	0.04454	1	Complies
2462	1.000	23.41	219.280	0.04362	1	Complies

(5)802.11 ht20

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2412	1.000	23.03	200.909	0.03997	1	Complies
2442	1.000	22.76	188.799	0.03756	1	Complies
2462	1.000	23.68	233.346	0.04642	1	Complies

(6)802.11 ht40

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2412	1.000	22.2	165.959	0.03302	1	Complies
2442	1.000	23.14	206.063	0.04099	1	Complies
2452	1.000	23.38	217.771	0.04332	1	Complies

Both WIFI and Bluetooth MAX transmit together, the maximum output power will be 251.188+5.821=257.009mW. the **Power Density** is below limit.

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