FCC 47 CFR

MPE REPORT

Applicant By

COSHIP ELECTRONICS CO., LTD

7/F, Block A, W2 Bldg, Hi-Tech Industrial Park, Shenzhen, China

Report Number

MPE0809001

Model Number

N-8608I-AW

Issued By

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Wu Li An

Report No.: MPE0809001

Maximum Permissible Exposure

1 Applicable Standard

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(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(H)	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(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(H)	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

2 MPE Calculation Method

E (V/m) = (30*P*G) 0.5/d Power Density: Pd (W/m₂) = E₂/377

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*d₂)

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.

Report No.: MPE0809001

3 Calculated Result and Limit 802.11b

CH1 Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density(S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
2.0	18.55	71.614	0.028494	1	Complies

CH6 Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density(S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
2.0	17.60	57.544	0.022895	1	Complies

CH11 Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density(S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
2.0	16.62	41.879	0.016627	1	Complies

802.11g CH1 Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density(S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
2.0	18.26	66.988	0.026653	1	Complies

CH6 Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density(S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
2.0	17.27	53.333	0.021220	1	Complies

CH11 Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density(S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
2.0	16.48	44.463	0.017691	1	Complies

Report No.: MPE0809001