

RF Exposure Compliance Report

Model / Serial No. : A0-CL01


Product Type : Lamp Speaker System

FCC ID : 2AAUHA0-CL01

Applicant : SHANGHAI ETIGER DIGITAL TECHNOLOGY CO.,LTD



License Holder : SHANGHAI ETIGER DIGITAL TECHNOLOGY CO.,LTD

Address : 1905,Greenland bld, 1258 YuYuan rd, ChangNing District
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Test Result :  COMPLIED

Total pages including Appendices : 3

The test result only corresponds to the tested sample. It is not permitted to copy this report, in part or in full, without the permission of the test laboratory.

Prepared by 	Approved by 
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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 fixed 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/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-3	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/cm ²)	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/500	30
1500-100000			1.0	30

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

2. MPE Calculation Method

$$E (V/m) = (30 \cdot P \cdot G)^{0.5} / d \quad \text{Power Density: } P_d (W/m^2) = E^2 / 377$$

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

$$P_d = (30 \cdot P \cdot G) / (377 \cdot d^2)$$

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

Continuously transmitting mode.

Antenna Gain: 3dBi

Model	Mode	Channel frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
A0-CL01	GFSK	2402	2.34	1.71	0.0007	1	Complies
		2441	2.09	1.62	0.0006		
		2480	2.18	1.65	0.0007		
	8DPSK	2402	1.23	1.33	0.0005		
		2441	1.01	1.26	0.0005		
		2480	1.08	1.28	0.0005		