FCC RF EXPOSURE REPORT

DONGGUAN ALLLIKE ELECTRONIC CO.,LTD

Bluetooth Soundbar Speaker

Model Number: ITSB-408

FCC ID: BUQS650

Prepared for : DONGGUAN ALLLIKE ELECTRONIC CO.,LTD
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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 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
1500-10000			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
1500-10000			1.o	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

3、**Calculated Result and Limit**

Model	Frequency (MHz)	Peak output power (dBm)	Peak output power (mW)	Antenna gain (dBi)	(Linear)	Target power （dBm）	Power Density (S) (mW/cm2)	Limited of Power Density (S) (mW/cm2)	Test Result
GFSK	2402	-0.794	0.833	0	1	-1±1	0.00199	1	Compiles
	2441	-0.588	0.873	0	1	-1±1	0.00199	1	Compiles
	2480	-0.468	0.898	0	1	-1±1	0.00199	1	Compiles
8-DPSK	2402	-0.769	0.838	0	1	-1±1	0.00199	1	Compiles
	2441	-0.776	0.836	0	1	-1±1	0.00199	1	Compiles
	2480	-0.796	0.833	0	1	-1±1	0.00199	1	Compiles