FCC RF EXPOSURE REPORT

Shenyang Tongfang Multimedia Technology Co., Limited

LED TV

Model Number: SE40FYP1TA

Additional Model: SE40FYP1T, LE-40GY15T, LE-40GY15T1，LE-40GY15-T3，

SE40FYT,

ELSFW401，EW40XXXXXXXXX, DWM40XXXXXXXXXX,

SEXXXXXXXXX,ELXXXXXXXXX, LE-40GXXXXXXXXX,

LE40GXXXXXXXXXX

FCC ID: 2ACWI40FYP1TA

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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: P_d (W/m2) = $E^2/377$

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

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

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**

Mode	Frequency (MHz)	output power (dBm)	output power (mW)	Target power（dBm）	Antenna gain		Power Density (S) (mW /cm2)	Limited of Power Density (S) (mW /cm2)	Test Result
					(dBi)	(Linear)			
IEEE 802.11b	2412	11.73	14.89	11±1	2	1.59	0.00500	1	Compiles
	2442	11.66	14.66	11±1	2	1.59	0.00500	1	Compiles
	2472	10.71	11.78	11±1	2	1.59	0.00500	1	Compiles
IEEE 802.11g	2412	10.07	10.16	10±1	2	1.59	0.00397	1	Compiles
	2442	9.89	9.75	10±1	2	1.59	0.00397	1	Compiles
	2472	9.64	9.20	10±1	2	1.59	0.00397	1	Compiles
IEEE 802.11n HT20	2412	9.15	8.22	9±1	2	1.59	0.00315	1	Compiles
	2442	9.17	8.26	9±1	2	1.59	0.00315	1	Compiles
	2472	9.39	8.69	9±1	2	1.59	0.00315	1	Compiles
IEEE 802.11n HT40	2422	7.84	6.08	7±1	2	1.59	0.00199	1	Compiles
	2442	7.33	5.41	7±1	2	1.59	0.00199	1	Compiles
	2462	6.74	4.72	7±1	2	1.59	0.00199	1	Compiles