FCC 47 CFR MPE REPORT

Guangdong Leetac Electronics Technology Co.,Ltd.

Phonograph Turntable

Model Number: E-E483

Additional Model: TMT-1000, E-E48x("x" can be replaced by digit "0-9" or letter A-Z)

FCC ID:ZXNLEETACEE483

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Report Number:	ESTE-R1806037		
Date of Test:	May. 25~ Jun. 19, 2018		
Date of Report:	Jun. 21, 2018		



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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	Electric Field	Magnetic	Power	Averaging
Range (MHz)	Strength E)	Field Strength	Density (S)	Times E
	(V/m)	(H) (A/m)	(mW/cm2)	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	Electric Field	Magnetic	Power	Averaging
Range (MHz)	Strength E)	Field Strength	Density (S)	Times E
	(V/m)	(H) (A/m)	(mW/cm2)	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			1.0	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



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3. Conducted Power Result

Mode	Frequency (MHz)	Peak output power (dBm)	D 1	Target	Ante	Antenna gain	
			Peak output power (mW)	power (dBm)	(dBi)	(Linear)	
GFSK	2402	-2.817	0.523	-3±1	0	1	
	2441	-2.810	0.524	-3±1	0	1	
	2480	-3.515	0.445	-4±1	0	1	
π/4-DQPSK	2402	-1.712	0.674	-2±1	0	1	
	2441	-1.672	0.680	-2±1	0	1	
	2480	-2.360	0.581	-3±1	0	1	

4. Calculated Result and Limit

	Antenna gain			Limited		
Mode	Target power (dBm)	(dBi)	(Linear)	Power Density (S) (mW /cm2)	of Power Density (S) (mW	Test Result
					/cm2)	
GFSK	-2	0	1	0.00013	1	Compiles
π/4-DQPSK	-1	0	1	0.00016	1	Compiles



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