FCC RF EXPOSURE REPORT

Music Wave Limited

CAR AUDIO

Model Number: NA205

Additional Model:MW095CDBT

FCC ID: 2AKVT-MW-CDBT

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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



3. Calculated Result and Limit

Mode -	Frequency (MHz)			Antenna gain			Limited		
						Power	of		
				Target			Density	Power	Test
			power	(dBi)	(Linear)	(S)	Density	Result	
			$\begin{pmatrix} \text{power} \\ \text{(mW)} \end{pmatrix} \begin{pmatrix} \text{dBm} \end{pmatrix}$	(dBm)			(mW	(S)	
						/cm2)	(mW		
								/cm2)	
GFSK	2402	2.544	1.796	2 ± 1	0	1	0.00040	1	Complies
	2441	3.033	2.010	3 ± 1	0	1	0.00050	1	Complies
	2480	3.716	2.353	3 ± 1	0	1	0.00050	1	Complies
8-DPSK	2402	2.470	1.766	2 ± 1	0	1	0.00040	1	Complies
	2441	2.955	1.975	2 ± 1	0	1	0.00040	1	Complies
	2480	3.660	2.323	3 ± 1	0	1	0.00050	1	Complies