FCC RF EXPOSURE REPORT

AMS DIFFUSION

Car RADIO Player

Model Number: CT412 BT

Additional Model: FT412 BT、MF412 BT、VT412 BT、CT412 BT Johnston、

CT412 BT CASE-IH、CT412 BT NH、CT412 BT STEYR、

CT412 BT CASE-CE、CT412 BT JCB

FCC ID: 2ADE7-412BT

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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) | Peak output power (dBm) | Peak output power (mW) | Target power（dBm） | Antenna gain | | Power Density (S) (mW/cm2) | Limited of Power Density (S) (mW/cm2) | Test Result |
					(dBi)	(Linear)			
GFSK	2402	-2.983	0.503	-3±1	0	1	0.00013	1	Complies
	2441	-4.723	0.337	-5±1	0	1	7.92007E-05	1	Complies
	2480	-6.008	0.250	-7±1	0	1	4.99723E-05	1	Complies
8-DPSK	2402	-4.051	0.393	-5±1	0	1	7.92007E-05	1	Complies
	2441	-5.741	0.266	-6±1	0	1	6.29114E-05	1	Complies
	2480	-6.907	0.203	-7±1	0	1	4.99723E-05	1	Complies