1. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.1 General Information

Client Information

Applicant:	Modern Marketing Concepts,Inc.
Address of applicant:	1220 E Oak,St.Louisville Kentucky United States 40204
Manufacturer:	Shenzhen Jiayinking Technology Holding Company Limited
Address of manufacturer:	No.11,11-1, Anye Road, Anliang village, Yuanshan Town, Longgang District, Shenzhen, China

General Description of EUT:

Product Name:	VIBE TURNTABLE / RYDER TURNTABLE
Brand Name:	CROSLEY
Model No.:	TT503-1N
Adding Model(s):	CR6040A-XX ("XX "can be replaced by letter from "A" to "Z", number from "0"to "9" or blank)
FCC ID:	AUSCR6040A
Rated Voltage:	DC5V
Adapter Model #1:	MODEL: JS005SPS-050100U INPUT: AC100-240V, 50/60Hz, 0.2A OUTPUT: DC5V,1A MODEL:THX-050100KV
Adapter Model #2:	INPUT:100-240V~50/60Hz 065A MAX OUTPUT:DC5V,1A MODEL:GKYZA0100050US
Adapter Model #3:	INPUT:100-240V~50/60Hz 0.5A MAX OUTPUT:DC5V,1A

Technical Characteristics of EUT:

Bluetooth Version:	V5.0 (BR/EDR mode)
Frequency Range:	2402-2480MHz
RF Output Power:	5.48dBm (Conducted)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, Pi/4 DQPSK, 8DPSK
Quantity of Channels:	79
Channel Separation:	1MHz
Type of Antenna:	PCB Antenna
Antenna Gain:	0dBi

1.2 Standard Applicable

According to § 1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

(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/cm^2)	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
1500-100000	/	/	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/cm^2)	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
1500-100000	/	/	1	30

Note: f = frequency in MHz: * = Plane-wave equivalents power density

1.3 MPE Calculation Method

$S = (30*P*G) / (377*R^2)$

S = power density (in appropriate units, e.g., mw/cm^2)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

1.4 MPE Calculation Result

Maximum Tune-Up output power: 6 (dBm)
Maximum peak output power at antenna input terminal: 3.98(mW)
Prediction distance: >20(cm)
Prediction frequency: 2480 (MHz)
Antenna gain:0 (dBi)
Directional gain (numeric gain): 1
The worst case is power density at prediction frequency at 20cm: 0.0008 (mw/cm^2)
MPE limit for general population exposure at prediction frequency: 1 (mw/cm^2)

Result: Pass