1. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.1 General Information

Client Information

Applicant: Shenzhen Jiayinking Technology Holding Company Limited

Address of applicant: No.11,11-1, Anye Road, Anliang village, Yuanshan Town, Longgang

District, Shenzhen, China

Manufacturer: Dongguan Jiayin Industrial Co., Ltd

Address of manufacturer: 56 Yinping Road, Tiesong village, Qingxi Town, Dongguan

City

General Description of EUT:

Product Name: Old school Scout turntable

Brand Name:

Model No.: TT503-2

Adding Model(s): CR6042A-XX ("XX "can be replaced by letter from "A" to "Z", number

from "0"to "9" or blank)

FCC ID: AUSCR6042A

Rated Voltage: DC5V

MODEL: JS005SPS-050100U

Adapter Model #1: 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/cm²)

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: $\underline{0.0008 \text{ (mw/cm}^2)}$ MPE limit for general population exposure at prediction frequency: $\underline{1 \text{ (mw/cm}^2)}$

Result: Pass