

# RF EXPOSURE EVALUATION REPORT

APPLICANT	ه در	Shenzhen Jiayinking Technology Holding Company Limited
PRODUCT NAME	in	Suitcase Bluetooth PC Encoding Turntable Player
MODEL NAME	: 4	ST15002-1/ TURN-101 / TC193-BNH
TRADE NAME		JYK
BRAND NAME		JYK
FCC ID		2ADA2ST15002-1
STANDARD(S)	:	47CFR 2.1091 KDB 447498 D01 General RF Exposure Guidance v05r02
ISSUE DATE		2015-05-25 F
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HENZHEN MORL	ABCC	<sup>9</sup> M System Centric DMMUNICATIONS TECHNOLOGY Co., Ltd.

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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555 Http://www.morlab.com



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			Change History
	Issue	Date	Reason for change
1	1.0	2015-05-25	First edition
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# **TEST REPORT DECLARATION**

Shenzhen Jiayinking Technology Holding Company Limited			
No. 11. 11-1 Anye Road, Anliang Village, Henggang Town, Longgang District, Shenzhen, City, China			
Shenzhen Jiayinking Technology Holding Company Limited			
No. 11. 11-1 Anye Road, Anliang Village, Henggang Tow Longgang District, Shenzhen, City, China			
Suitcase Bluetooth PC Encoding Turntable Player			
ST15002-1/ TURN-101 / TC193-BNH			
JYK			
1.0			
1.0			
47CFR 2.1091; KDB 447498 D01 General RF Exposure Guidance v05r02			
2015-05-25			

Tested by

Liu Jun

Reviewed by

zhm zhan

Zhu Zhan

Approved by

Zeng Dexin

**MORLAB GROUP** 

FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China Http://www.morlab.com

Tel: 86-755-36698555

Fax: 86-755-36698525 E-mail: service@morlab.cn

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## **1. TECHNICAL INFORMATION**

Note: the following data is based on the information by the applicant.

## 1.1. Identification of Applicant

Company Name:	Shenzhen Jiayinking Technology Holding Company Limited	
Address:	No. 11. 11-1 Anye Road, Anliang Village, Henggang Town, Longgang	
MORL MORL	District, Shenzhen, City, China	

#### 1.2. Identification of Manufacturer

Company Name:	Shenzhen Jiayinking Technology Holding Company Limited
Address:	No. 11. 11-1 Anye Road, Anliang Village, Henggang Town, Longgang
B ORLAT MORT	District, Shenzhen, City, China

#### 1.3. Equipment Under Test (EUT)

Model Name:	ST15002-1/ TURN-101 / TC193-BNH
Trade Name:	JYK
Brand Name:	JYK
Hardware Version:	1.0
Software Version:	1.0
Frequency Bands:	Bluetooth;
Modulation Mode:	Bluetooth: GFSK/π/4-DQPSK/8-DPSK;
Antenna type:	Fixed Internal Antenna
Development Stage:	Identical prototype

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- 1.3.1. Photographs of the EUT
- 1. EUT front view



2. EUT rear view



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3. EUT uncover view



4. Voice box rear view



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#### 1.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EU Iden		lardware Version	Software Version		
1#	ŧ, ``	1.0	1.0		

#### **1.4. Applied Reference Documents**

Leading reference documents for testing:

~	No.	Identity	Document Title
	1 ORLAS	47 CFR§2.1091	Radiofrequency Radiation Exposure Evaluation: mobile devices
, [	2	KDB 447498 D01v05r02	General RF Exposure Guidance

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## 2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device is a Bluetooth Turntable Player. Based on 47CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

#### Mobile Devices:

#### 47CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

#### **GENERAL POPULATION / UNCONTROLLED EXPOSURE**

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
(1	B) Limits for General	Population/Uncontro	lled Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	_	-	f/1500	30
1500-100,000	_	_	1.0	30

#### TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

f = frequency in MHz \* = Plane-wave equivalent power density

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# 3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

#### 1. Bluetooth Average output power

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RLAD	MORL	MO	AB	LAB MORL	MO. AB
Dand	Channel	Frequency		Output Power(dB	m)
Band	Channel	(MHz)	GFSK	π/4-DQPSK	8-DPSK
ORL	0	2402	1.47	0.80	0.86
BT	39	2441	0.20	0.27	0.35
MON	78	2480	-0.10	-0.74	-0.30

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## **4. RF EXPOSURE EVALUATION**

Standalone transmission MPE evaluation

Bands	Frequency (MHz)	Antenna Gain (dBi)	Conducted Average Power (dBm)	Time-averaging EIRP (mW)	Power density (mW/cm²)	Limit for MPE (mW/cm <sup>2</sup> )
Bluetooth	2402	0	1.47	1.40	0.0003	1.0

Note:

1. MPE calculation method

Power Density = EIRP/4 $\pi$ R<sup>2</sup>

Where: EIRP = P·G

P = Peak out power

G = Antenna gain

R = Separation distance (20cm)

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## ANNEX C GENERAL INFORMATION

#### 1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

#### 2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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