



# FCC TEST REPORT FCC ID:2AB9S-JTM90

Product		Bluetooth Speaker		
Model Name :		M90		
Brand	:	N/A		
Report No.	:	PTC20070604301E-FC02		
Prepared for				
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Prepared by				
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#### **TEST RESULT CERTIFICATION**

Applicant's name : Shenzhen Jonter Digital Co.,Ltd

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Manufacture's

name

: Shenzhen Jonter Digital Co.,Ltd

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District, Shenzhen, Guangdong, China

Product name : Bluetooth Speaker

Model name : M90

Test procedure KDB 447498 D01 General RF Exposure Guidance v05

Test Date : Jul.14, 2020 ~ Jul.23, 2020

Date of Issue : Jul.23, 2020

Test Result : Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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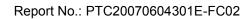
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## 2 Test Summary

Test Items	Test Requirement	Result			
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS			
Remark:					
N/A: Not Applicable					



## **3 General Information**

## 3.1 General Description of E.U.T.

<u> </u>				
Product Name	:	Bluetooth Speaker		
Model Name	:	190		
Additional model		N/A		
Bluetooth Version	:	BT 4.2 BDR+EDR		
Operating frequency	:	2402-2480MHz		
Numbers of Channel	:	79 channels		
Antenna Type	:	PCB Antenna		
Antenna Gain	:	0 dBi		
Type of Modulation	:	GFSK, Π/4-DQPSK,8DPSK For DSS		
Power supply	Adapter model:N/A Input: DC 5V, 1A(with DC 3.7V, 4000mAh Battery inside)			
Hardware Version	:	V3.0		
Software Version	:	V2.0		



## 4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

#### 4.1 Requirements

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 levels 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 0.2 m normally can be maintained between the user and the device.

#### 4.2 The procedures / limit

#### (A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
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
1500-100,000			5	6

#### (B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
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
	27.0	0.070	-	30
300-1500			F/1500	30
1500-100,000			1.0	30

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



#### 4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$
Power Density: Pd (W/m²) =  $\frac{E^2}{377}$ 

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

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

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

#### 4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
ВТ	1.00	1.702	1.48	0.0003	1	Pass

\*\*\*\*\*\*THE END REPORT\*\*\*\*\*