



# FCC TEST REPORT

## FCC ID: 2AYYG-8027

Product	:	MEGABASS LED JOBSITE SPEAKER
Model Name	:	8027,8032
Brand	:	
Report No.	:	PTC20121502201E-FC02
<b>Prepared for</b>		
Guangzhou YueJu Electronic Technology Co.,Ltd. Hengguan Creative Park , team II, Pingshan Huashan Town , Huadu District , Guangzhou , China		
<b>Prepared by</b>		
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## TEST RESULT CERTIFICATION

Applicant's name : Guangzhou YueJu Electronic Technology Co.,Ltd.  
Address : Hengguan Creative Park , team II, Pingshan Huashan Town ,  
Huadu District , Guangzhou , China  
Manufacture's name : Guangzhou YueJu Electronic Technology Co.,Ltd.  
Address : Hengguan Creative Park , team II, Pingshan Huashan Town ,  
Huadu District , Guangzhou , China  
Product name : MEGABASS LED JOBSITE SPEAKER  
Model name : 8027,8032  
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06  
Test Date : January 12 ,2021 to February 04,2021  
Date of Issue : February 04,2021  
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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Test Engineer:

A handwritten signature in black ink that reads "Leo Yang".

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that reads "Chris Du".

Chris Du / Manager



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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.

Product Name	:	MEGABASS LED JOBSITE SPEAKER
Model Number	:	8027
Additional model	:	8032 Note : Appearance color shape is different, PCB board is consistent
Specification	:	Bluetooth 5.0
Operating frequency	:	2402-2480MHz
Modulation	:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel	:	79
Antenna installation	:	PCB Antenna
Antenna Gain	:	0 dBi
Power supply	:	Input:DC 5V 1a ( Battery : 3.7v 4000ma )
Hardware Version	:	N/A
Software Version	:	N/A



## 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
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

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

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/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )	Result
BT	1.00	-1.780	0.66	0.0001	1	Pass

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