

MPE Test Report

Report No.: QBG-ESH-P20100483B-4

FCC ID: 2AXWU-13037

Product: LITTLE MARCEL SPEAKER

Test Model: 13037, 14599

YR PO number: 40c7952g01, 4007952g01, 4137952g01;
40c7953g01, 4007953g01, 4137953g01

ANAIK Product ref: PR-19-015066, PR-19-015066

ANAIK PO number: VE20-093118, VE20-093122

Received Date: Oct.22, 2020

Test Date: Oct.23 to Nov.10, 2020

Issued Date: Nov.12, 2020

Applicant: ANAIK

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Manufacturer: Bellatemps Limited

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Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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Release Control Record

Issue No.	Description	Date Issued
QBG-ESH-P20100483B-4	Original release	Nov.12, 2020



1 Certificate of Conformity

Product: LITTLE MARCEL SPEAKER

Brand: --

Test Model: 13037, 14599

Applicant: ANAIK

Test Date: Oct.23 to Nov.10, 2020

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :

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, **Date:**

Nov.12, 2020

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EMC Lab Manager

, **Date:**

Nov.12, 2020



2 General Information

2.1 General Description of EUT

BLE

Product	LITTLE MARCEL SPEAKER
Brand	--
Test Model	13037,14599
Power Rating	Powered by USB 5Vdc or battery
Modulation Type	GFSK
Modulation Technology	Bluetooth Low Energy 5.0
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	40
Output Power	0.42dBm
Antenna Type	PCB Antenna
Antenna Connector	--
Antenna Gain	0dBi

BT

Product	LITTLE MARCEL SPEAKER
Brand	--
Test Model	13037,14599
Power Rating	Powered by USB 5Vdc or battery
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology	BT-EDR, FHSS
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	79
Output Power	0.92dBm
Antenna Type	PCB Antenna
Antenna Connector	--
Antenna Gain	0dBi

Note:

1. For more details, please refer to the User's manual of the EUT.
2. All models are same as each other except model name. So all tests were performed on model 14599.

3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

3.4 Calculation Result of Maximum Permissible Exposure

BLE

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2402-2480	0.42	0	20	0.000219255	1

BT

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2402-2480	0.92	0	20	0.000246009	1

Conclusion:

The calculation result of MPE is less than the limit.

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