



FCC TEST REPORT

FCC ID:2AZRAXY2021

Product	:	Speaker
Model Name	:	EW-1045
Brand	:	N/A
Report No.	:	PTC21041201501E-FC03
Prepared for		
Xin Yi Electronics (Guangzhou) Co., LTD		
No.5.commercial street, Dongguan Village, Yayao Town, Huadu District, Guangzhou		
Prepared by		
Precise Testing & Certification Co., Ltd		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



TEST RESULT CERTIFICATION

Applicant's name : Xin Yi Electronics (Guangzhou) Co., LTD
Address : No.5.commercial street, Dongguan Village, Yayao Town, Huadu District, Guangzhou
Manufacture's name : Xin Yi Electronics (Guangzhou) Co., LTD
Address : No.5.commercial street, Dongguan Village, Yayao Town, Huadu District, Guangzhou
Product name : Speaker
Model name : EW-1045
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : Apr. 25, 2021 to May. 11 2021
Date of Issue : May. 11 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" with a checkmark at the end.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that appears to read "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	:	Speaker
Model Name	:	EW-1045
Additional model	:	W-1045, EW1221, EW-1098, EW-805,EW-2805,EW-129, EW-128, EW-105, EW-126, EW-127,EW-689,EW-125,EW-123,EW-1246,EW-2807,EW-2816,EW-2123,EW-2125,EW-2126,EW-2189,EW-2128 Note: Appearance color is different in size. Other electrical appliance principles are consistent
Bluetooth Version	:	BT 5.0 dual mode
Operating frequency	:	2402-2480MHz
Numbers of Channel	:	BLE:49 channels BDR+EDR:79 channels
Antenna Type	:	PCB Antenna
Antenna Gain	:	0 dBi
Type of Modulation	:	GFSK, $\pi/4$ -DQPSK,8DPSK for DSS, GFSK for DTS.
Power supply	:	Input: AC100-240V 50/60Hz
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

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

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

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

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 ²)	Limit of Power Density (mW/cm ²)	Result
BDR+EDR	0	-4.612	0.35	0.0001	1	Pass
BLE	0	-4.767	0.33	0.0001	1	Pass

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