

Applicant: Electronic World LLC

Product: Wireless speaker

Model No.: Electro Aqua Beat

Trademark: Electro

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: March 03, 2025

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to

withdrawal at

## SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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## **Special Statement:**

### FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

## Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

### **A2LA** (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

Date: 2025-03-03



## Test Report Conclusion

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The report refers only to the sample tested and does not apply to the bulk.

11.0

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Photo of Test Setup and EUT View....

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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant: Electronic World LLC

Address: 575 Julie Rivers Drive, Sugar Land, TX, United States, 77478

#### 1.3 Description of EUT

Product: Wireless speaker

Manufacturer: Glory Star Technology Industrial Co., Ltd.

Address: Room2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,

Shenzhen, China

Trademark: Electro

Model Number: Electro Aqua Beat

Additional Model Name N/A

Rating: Input: DC5V

Battery: DC7.4V, 5400mAh Li-ion battery

Serial No.: P96202402

Hardware Version: V2.0 Software Version: V2.0

Operation Frequency: 2402-2480MHz Modulation Type: GFSK, JI/4DQPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation PCB antenna with gain -0.61dBi maximum (Get from the antenna specification)

#### 1.4 Submitted Sample: 2 Samples

#### 1.5 Test Duration

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### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment							
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date		
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11		
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11		
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11		
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11		
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17		
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11		
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17		
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17		
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11		
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11		
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17		
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25		
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11		
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11		
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11		
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11		
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	-	2024-07-12	2025-07-11		
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11		
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11		
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11		
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11		
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11		
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11		

### 2.2 Automation Test Software

#### For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

#### For Radiated Emissions

Name	Version	
EMI Test Software BL410-EV18.91	V18.905	
EMI Test Software BL410-EV18.806 High Frequency	V18.06	

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#### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been	en tested accor	rding to the foll	lowing specifications:	

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

#### 4.0 EUT Modification

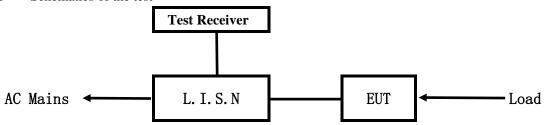
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5.0 Power Line Conducted Emission Test

## 5.1 Schematics of the test

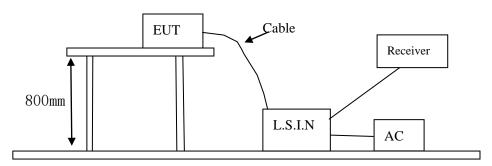


**EUT: Equipment Under Test** 

#### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



### 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
Wireless speaker	Glory Star Technology Industrial Co., Ltd.	Electro Aqua Beat	2BB37-ELLC-AQB1

### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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#### C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A;
			Output: DC5V, 3A; DC9V, 3A; DC12V,
			3A; DC15V, 3A; DC20V, 2.25A;

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition
- 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB $\mu$ V)			
(MHz)	Quasi-peak Level	Average Level		
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

#### 5.6 Test Results:

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### A: Conducted Emission on Live Terminal (150kHz to 30MHz)

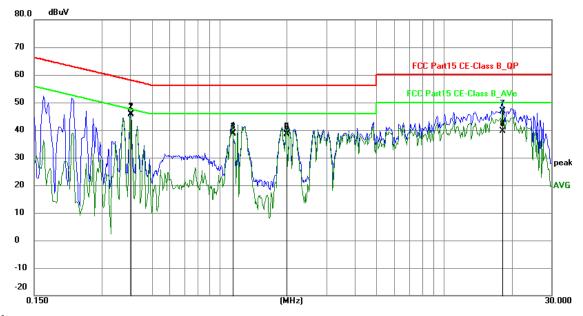
## **EUT Operating Environment**

Temperature: 25 °C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4035	35.23	10.37	45.60	57.78	-12.18	QP	Р
2	0.4035	35.56	10.37	45.93	47.78	-1.85	AVG	Ъ
3	1.1523	28.11	10.62	38.73	56.00	-17.27	QP	Р
4	1.1523	28.18	10.62	38.80	46.00	-7.20	AVG	Р
5	1.9869	27.38	11.31	38.69	56.00	-17.31	QP	Р
6	1.9869	27.13	11.31	38.44	46.00	-7.56	AVG	П
7	18.1359	30.91	15.95	46.86	60.00	-13.14	QP	П
8	18.1359	23.63	15.95	39.58	50.00	-10.42	AVG	Р

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### B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

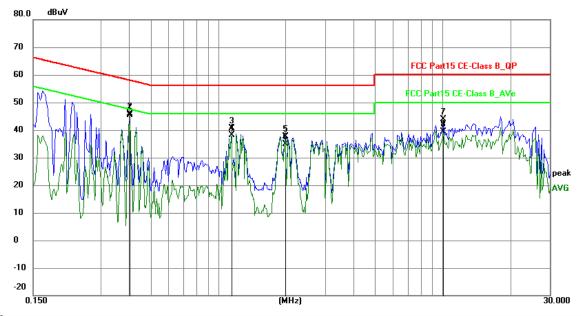
### **EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4035	35.07	10.37	45.44	57.78	-12.34	QP	Р
2	0.4035	35.42	10.37	45.79	47.78	-1.99	AVG	Л
3	1.1484	30.11	10.62	40.73	56.00	-15.27	QP	Р
4	1.1484	27.40	10.62	38.02	46.00	-7.98	AVG	Р
5	1.9869	26.40	11.31	37.71	56.00	-18.29	QP	Р
6	1.9869	23.69	11.31	35.00	46.00	-11.00	AVG	А
7	10.0590	30.07	13.84	43.91	60.00	-16.09	QP	Р
8	10.0590	25.60	13.84	39.44	50.00	-10.56	AVG	Р

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#### 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

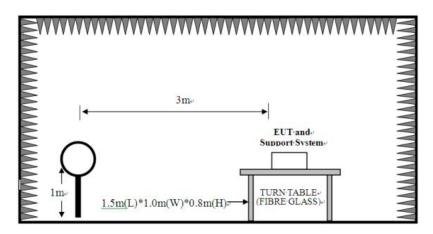
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.

- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

#### **Block diagram of Test setup**

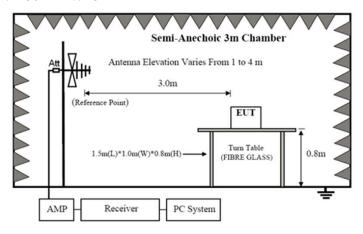
For radiated emissions from 9kHz to 30MHz



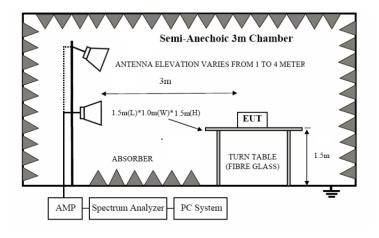
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of the EUT
  Same as section 5.3 of this report
- 6.3 EUT Operating Condition

  Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
(MHz) mV/m		dBuV/m	uV/m	dBuV/m	

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2400-2483.5 50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
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Note:

- 1. RF Field Strength  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

## B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)		
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)		
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)		
1.705-30	3	69.5		
30-80	3	40.		
88-216	3	43.5		
216-960	3	46.0		
Above 960	3	54.0		

Note:

- 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. Battery was fully charged during test

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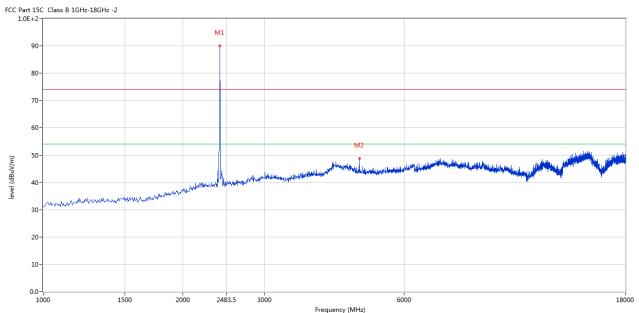
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#### 6.5 Test result

### **A** Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

#### Horizontal



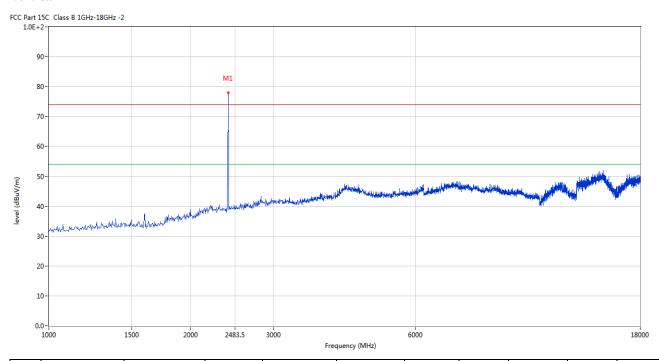
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	89.96	-3.57	114.0	-24.04	Peak	29.00	100	Horizontal	Pass
2	4802.799	48.72	3.12	74.0	-25.28	Peak	261.00	100	Horizontal	Pass

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## Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	77.93	-3.57	114.0	-36.07	Peak	60.00	100	Vertical	Pass

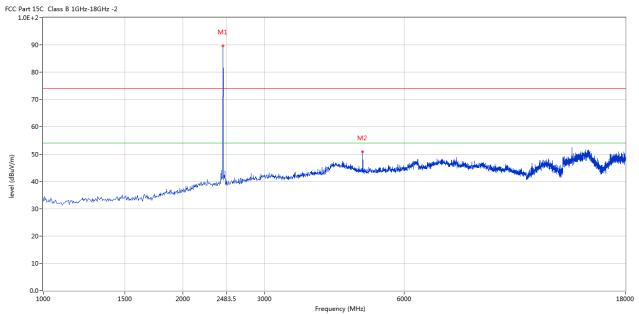
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



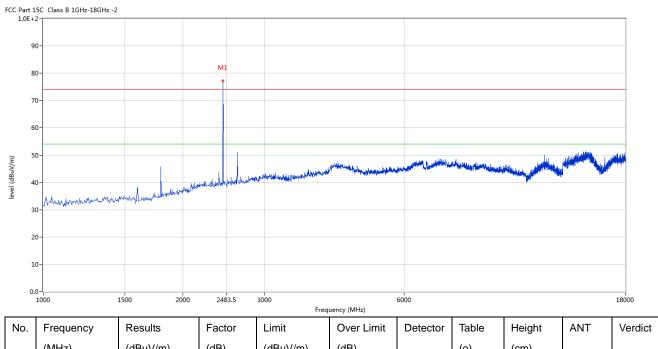
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	89.66	-3.57	114.0	-24.34	Peak	269.00	100	Horizontal	Pass
2	4883.529	50.85	3.20	74.0	-23.15	Peak	263.00	100	Horizontal	Pass

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#### Vertical



					-					
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	77.12	-3.57	114.0	-36.88	Peak	133.00	100	Vertical	Pass

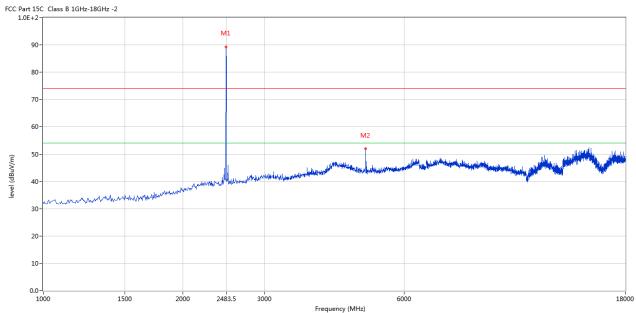
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Please refer to the following test plots for details: High Channel-2480MHz

#### **Horizontal**



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	89.34	-3.57	114.0	-24.66	Peak	228.00	100	Horizontal	Pass
2	4960.010	51.93	3.36	74.0	-22.07	Peak	262.00	100	Horizontal	Pass

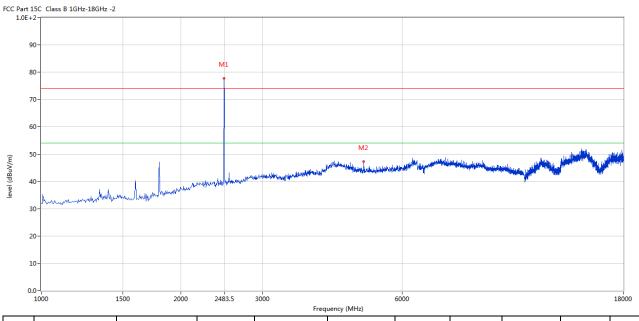
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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	77.86	-3.57	114.0	-36.14	Peak	174.00	100	Vertical	Pass
2	4960.010	47.26	3.36	74.0	-26.74	Peak	159.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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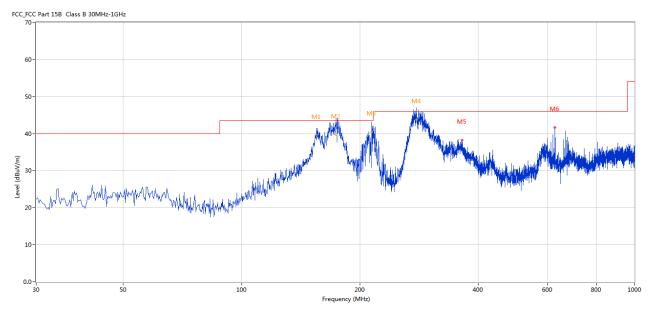


## B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1*	155.341	39.56	-9.65	43.5	3.94	QP	2.00	100	Horizontal	Pass
2*	174.009	39.71	-8.50	43.5	3.79	QP	9.00	100	Horizontal	Pass
3*	214.496	40.42	-6.79	43.5	3.08	QP	0.00	100	Horizontal	Pass
4*	278.743	43.77	-5.44	46.0	2.23	QP	1.00	100	Horizontal	Pass
5	364.081	38.17	-1.85	46.0	7.83	Peak	0.00	100	Horizontal	Pass
6	627.856	41.71	1.32	46.0	4.29	Peak	0.00	100	Horizontal	Pass

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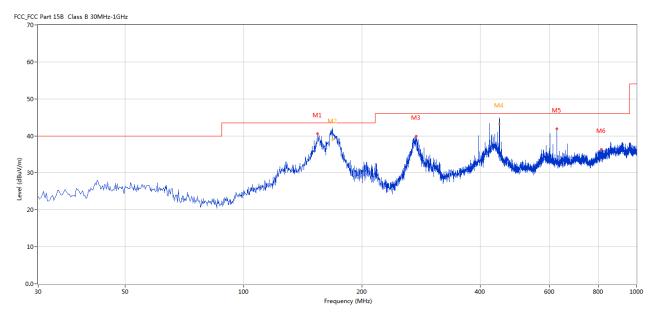


## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	154.129	40.66	-9.77	43.5	2.84	Peak	271.00	100	Vertical	Pass
2*	168.433	38.98	-9.23	43.5	4.52	QP	85.00	100	Vertical	Pass
3	274.621	39.89	-5.29	46.0	6.11	Peak	224.00	100	Vertical	Pass
4*	447.966	43.26	-0.95	46.0	2.74	QP	358.00	100	Vertical	Pass
5	627.128	41.89	1.26	46.0	4.11	Peak	128.00	100	Vertical	Pass
6	812.837	36.34	3.54	46.0	9.66	Peak	87.00	100	Vertical	Pass

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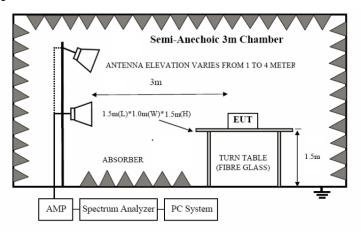


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

## 7.3 Configuration of the EUT

Same as section 5.3 of this report

## 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

The report refers only to the sample tested and does not apply to the bulk.

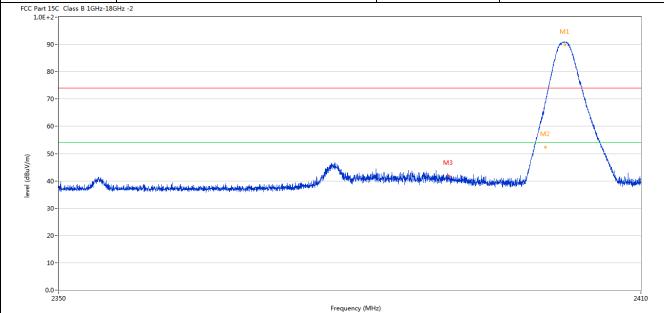
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#### 7.6 Test Result

Product:	Wireless speaker	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
FCC Part 15C Class B 1GHz-18G	GHz -2		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.082	89.88	-3.57	74.0	15.88	Peak	265.00	100	Horizontal	N/A
2	2400.042	67.60	-3.57	74.0	-6.40	Peak	265.00	100	Horizontal	Pass
2**	2400.042	52.44	-3.57	54.0	-1.56	AV	265.00	100	Horizontal	Pass
3	2390.010	41.80	-3.53	74.0	-32.20	Peak	270.00	100	Horizontal	Pass

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Product: Mode			Wireless	speaker		Detect	tor		Vertical		
	Mode	I	Keeping Tr	ansmitting		Test Vol	tage		DC7.4V		
Te	mperature		24 de	g. C,		lity	56% RH				
Τe	est Result:		Pa								
CC Part	15C Class B 1GHz-18GF	lz -2									
1.0E	+2-										
	90-										
	80-								M1		
								/	$\frown$		
	70-										
	60-								$\overline{}$		
	50-										
Ε΄								1	\ \		
/Ang						Ma	1	M2	\ \		
vel (dbuv/r	40-	والمراجع وا	the the state of the state of	indianaeana dhean eagh ean each inn le	and the second second second	EM Superior light consider	herparanjehend	M2		<del>odniku ulugay</del> in	
(Approximately)	40-	ية المساورة والمساورة المساورة والمساورة والمساورة والمساورة والمساورة والمساورة والمساورة والمساورة والمساورة	Plante de sidade transport dels des lates la	is film and the singletic birth of the	<del>Mariner de Arthur hierd</del> i			M2 o		<del>odajtu u lagaj</del> tik	
(Angn) least	30-	ن <sup>ىرا</sup> دىلىن <del>ئۇدىدا</del> ئىزىلىدى ئۇدىدا ئۇدىدا ئۇدىدا ئۇدىلىدا ئۇدىلىدا ئۇدىلىدا ئۇدىلىدا ئۇدىلىدا ئۇدىلىدا ئۇدىلىد	tiligades das, salvas tavas esta defendo despodas esta despoda	يرطنوسوستده فالمتوارجة والمتدارين الد	And a sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-			Miscratificati			
level (dbuv/r		iriladisi etergengkan kelapadan pelangkan di	وخيهارية وتنفره ويوقو والرواية والمراواة	ાં કેમના અન્યવસ્થા કર્યા ત્યાં અનુ કેમના અને સ્થાપના અને કેમના સ્થાપના કર્યા છે.	Andrew States and States and States while			M2 •		<del>ological galay</del> ist.	
(Angn) lakel	30-	يت أوريان والإيران	thingheile, shakeste steele shekeri.	is discussed the company of the limit of	att den general de alle dans de la describa			M2 o		<del>olegia, degapi</del> k,	
	30-	irikulai ete geteşku tiliniyi kadi etpirir etti	Pringhedra, school, contract of the school o	ાં, કેપિયાના સ્વરાશ હવે ના ત્યારા સ્વયુપ્તિ હતા. કેવારા માના કેપિયાના સ્વયુપ્તિ હતા. કેપિયાના સ્વયુપ્તિ હતા.	Arthrican de Antonio de de			M2 emberophilipse		<del>ardadus, ilaşılaşıl</del> a	
level (dbuv/m)	30- 20-	irikulas eta populustiri pluntetpul etti	thingshealth, sinh he (the death a physical Lies princip	is discussioned the completes stantined the	Frequency (MHz)			M/2 o		24:	
	30- 20- 10-	Results	Factor	Limit				Height	ANT	ı	
	20- 10- 2350				Frequency (MHz)	enter on de deut des des	the four to exist to each	and the second s	ANT	1	
No.	30- 20- 10- 0.0- 2350	Results	Factor	Limit	Frequency (MHz)  Over Limit	enter on de deut de service	Table	Height	ANT	1	
No.	20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)  Over Limit (dB)	Detector	Table (o)	Height (cm)		Verdi N/A	
	30- 20- 10- 2350 Frequency (MHz) 2401.887	Results (dBuV/m) 77.37	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz)  Over Limit (dB)  3.37	Detector Peak	Table (o) 196.00	Height (cm)	Vertical	Verdi N/A Pass Pass	

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]	Product:		Wirele	ss speaker		P	olarity		Horizont	al
	Mode		Keeping '	Transmitting		Tes	t Voltage		DC7.4V	7
Te	mperature		24 (	deg. C,		Hı	ımidity		56% RF	I
Te	est Result:		I	Pass						
1.0E+	15C Class B 1GHz-18GH -2-	z -2								
9	90-		M	1						
8	30-		-/-							
7	70-									
6	50-									
5	50-		,							
. 4		days market assign to be dead to be		M2			in deployment of the boundary			-
		ally assessed a section of the latest of the		M2		er this along the	e kalpenyalang dikabat pandi			-
3	hallen er alle sett refyrdd plaefe. Ar yn ell	alla a santhur airinn bhrit chairte		M2		er to he passed on the second of the	n hipe and an adjust of single			- Applicable
2	30 -	ning and and an interest of the second		M2		ar an haife an	e kulpen, gelenga de til bet grægd	A STATE OF THE PARTY OF THE PAR	a state in the state of the sta	uk poliklek
3 2 1	20-	via praemika askan kirikan jekin			Mary London Hall	es par la participa de la constitución de la consti	a hipe whee and their speak		a state had been a state of the	all production
3 2 1	20-	ning samulas antiquation and plant		M2	Mary London Hall	ng sing king pikalang pikk ng gapa	k hippy who may desired a special		general harris de la companya de la	2500
3 2 1	20-	Results	Factor		.5	Detector	Table	Height	ANT	ı
3 2 1 0.	20-	Results (dBuV/m)	Factor (dB)	2483	.5 Frequency (MHz)	and the second of the second o	THE STATE OF THE STA	The section of the se	ANT	ı
1 0. No.	20- 10- 2470 Frequency			2483	.5 Frequency (MHz)	and the second of the second o	Table	Height	ANT Horizontal	2500 Verdi
3 2 1 0.	200- 100- 2470 Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)		Verdi

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I	Product:		Wireless	speaker		Detec	tor		Vertical	
	Mode		Keeping Tr	ansmitting		Test Vo	ltage		DC7.4V	
Te	mperature		24 de	g. C,		Humio	lity		56% RH	
Te	est Result:		Pa	ss						
FCC Part	t 15C Class B 1GHz-18G E+2-	Hz -2			<u>'</u>					
	90-									
	80-		M1	<u></u>						
	70-		<b>*</b>	1						
			1	<b>)</b>						
	60-			1						
(m)	50-			M <sub>M</sub> M2						
l (dBuV/m)	50-	والمراورة		M <sub>M</sub> 2	والمناطق المرابع		and make the party and a	المراجعة ال	n, like our channelski	lik to sakuta
level (dBuV/m)	50-	and the state of the		M2	and his desired that a substitute of	maken de la Marine la delle par la seg	d or middle to be to be seen a contraction of	المراجعة الم	n del somethy annual de	lake da para li kaptan.
level (dBuV/m)	50-	المنافعة والمنافعة والمناف		M <sub>M</sub> 2	and he freeze made the later and the later a	يبدؤه والمؤرث أحداث المراجع	il or mild in hand side and a	degenerated design and all the	ndharast arrib	lekk da parkunta.
level (dBuV/m)	50-	المعاوية بالمراجعة والمعارضة والمعار		M2	and a short was hill and a substitute as	ومراجع والمراجع والم		haran da karan da kababan da kabab	a delegant and the	lekk de edisigi <mark>e.</mark>
level (dBuV/m)	50- 40- 30-	and the state of the		MM2	and a physical period of the second state of t	marinda quadin da kan	kot politi ka kasterla	الموجود المجاول المجاو	and the desired transplace	hill to divine
_	50- 40- 30- 20-	makadaksa persengan perseka dan dan dan dan dan dan dan dan dan da		M2	and the state which is the state of the stat	ويوه والمارة والمواجعة	d or make in the second	haganing khi kupa di kupa kh	n dik desiden kuncus siddi	hkkudendkupta.
level (dBuV/m)	50- 40- 30- 20-			2483	.5	materiales de la delegida en esta de la d	luriusitis kahisaleete	<del>dag gandiyê li daya di</del> di nabê ki	an dek des alan kan sampi de	
_	50- 40- 30- 20-	Results	Factor	2483		Detector	Table	Height	ANT	250
	50 - 40 - 30 - 20 - 10 - 2470		Factor (dB)	1	.5 Frequency (MHz)					250
	30- 20- 10- 2470	Results		Limit	.5 Frequency (MHz) Over Limit		Table	Height		250 Verdi

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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### 8.0 Antenna Requirement

#### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain -0.61dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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#### 9.0 20dB Bandwidth Measurement

## **Test Configuration**



#### **Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

#### Limit

N/A

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#### **Test Result**

Product:	Wireless sp	eaker	Test Mode:	Keep transmittin
Mode	Keeping Tran	smitting	Test Voltage	DC7.4V
Temperature	24 deg.	C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
0dB Bandwidth	984kH	Z		<b></b>
Ref 10 di	3m ∗Att 2	* VBW	100 kHz	-0.37 dB 4.000000000 kHz
10			Marke	
_0		2		-20.99 dBm 2.401526000 GHz
PK		MA	Marke	
<b>-10</b>		~		-1.32 dBm 2.401060000 GHz
20	1 1	JV .	M 1	
	-21.55 dBm		<b>N</b>	
30	\frac{1}{2}		1	
40	M/			3DB
-50	<del>/                                     </del>			
-60				ma
70				
80				
-90				
Center 2.	402 GHz	300 kHz/	•	Span 3 MHz

The report refers only to the sample tested and does not apply to the bulk.

Date: 3.MAR.2025 10:44:19

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Product:	V	Vireless speaker		Test	Mode:		Keep transn	nitting
Mode	Kee	ping Transmittin	ıg	Test V	Voltage		DC7.4	V
Temperature		24 deg. C,	Humidity		56% RH		Н	
Test Result:		Pass	Det	Detector		PK		
20dB Bandwidth		996kHz		,				
Ref 10 d:	Bm ,	*Att 20 dB	*RBW 30 *VBW 10 SWT 5	0 kHz	Delta 996 Marker	0	.01 dB 000 kHz	
_0		2	M		2 Marker	.440520 2 [T1	.93 dBm 000 GHz A	3
20 <u></u>	-21.25 dBm_	1 /V		Ty 1				
40	7	, J.		V	Mary 1	Л		
Multh					<u>la</u>	wy	Mym	В
<b>-</b> -70								
80 90								
Center 2.	441 GHz	30	0 kHz/			Spa	ın 3 MHz	

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Product:		peaker		Test	Mode:		Keep tran	nsmitting	
Mode	k	Keeping Tran	smitting		Test '	Voltage		DC7	'.4V
Temperature		24 deg.	C,	Humidity			56% RH		
Test Result:		Pass		Detector				Pl	K
OdB Bandwidth		990kH	[z						-
Ref 10 di	Bm	*Att 20	O dB	*RBW 30 *VBW 10 SWT 5	00 kHz	Delta 990		.93 dB 000 kHz	
10						Marker	1 [T1 ] -21	.43 dBm	
_0			2			2		000 GHz	A
<b>рк</b> АХН			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\mathcal{N}$		Marker	2 [T1 ] -1	.48 dBm	
20		1 1	Λ	1	\ 1		. 4 / 50000	000 G112	
<u> </u>	-21.48 dB	m d			1				
30		مم				A A			
40	1001						M		3DB
-50							1	Marin	
60									
70									
80									

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Product:	W	Vireless sp	eaker		Test M	Iode:	Ke	ep transmitt	ting
Mode	Kee	ping Tran	smitting		Test Vo	oltage		DC7.4V	
Temperature		24 deg.	C,		Humidity		56% RH		
Test Result:		Pass			Dete	ctor		PK	
20dB Bandwidth		1.278M	Hz						
Ref 10 de	3m ·	*Att 20	0 dB	*RBW 3 *VBW 1 SWT 5	00 kHz		1 [T1 ] -1	.37 dBm	
10						ndB [T		.00 dB	
			1			BW 1 Temp 1	.2780000 [Tl nd]		A
L PK			. An	1	۰۸.	2	-21	.78 dBm	_
	נ		\.\	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	***\\	T2 2	-21 .4026660		
<b>-</b> -20 <b>-</b> -30 <b>-</b>						4			
-40						h	_		
~5 ph	Variation 1						Mm	M 31	DВ
60									
70									
80									
-90									

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Product:	1	Wireless spe	aker		Test	Mode:		Keep transmitting
Mode	Kee	eping Transı	mitting		Test '	Voltage	DC7.4V	
Temperature		24 deg. C,			Humidity		56% RH	
Test Result:		Pass			Det	Detector		PK
20dB Bandwidth		1.236MH	Z					
Ref 10 d	Bm	*Att 20	dB	*RBW 30 *VBW 10 SWT 5	00 kHz	2	.440868	.29 dBm 000 GHz
10			1			ndB [T BW 1 Temp 1	1] 20 .236000 [T1 nd	000 dB 000 MHz
1 PK MAXH10			$\bigwedge$		Λ-	2		.18 dBm
20			<b></b>	V	$\sqrt{N}$	r2 2	-21 .441630	.39 dBm 000 GHz
30						\$		
40	~d					Y		
ward of	VW					<b>J</b>	W	3DB
								w/
60								
70								
80 90								
Center 2.	441 CH-		300	kHz/			C m a	n 3 MHz

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Product:		Wireless	speaker		Test	Mode:		Keep trans	smitting
Mode		Keeping Tr	ansmitting		Test V	Voltage		DC7.	4V
Temperature		24 deg. C,					56% RH		RH
Test Result:	Pass					ector		PK	
20dB Bandwidth	1.230MHz								
Ref 10 d	Bm	* Att	20 dB	*RBW 30 *VBW 10 SWT 5	0 kHz	2	.479868	.49 dBm 000 GHz	
10						ndB [T BW 1		.00 dB 000 MHz	
_0			1			Temp 1	[T1 nd]		A
PK			<i> </i> {	$\land$		2	-21 .479400		
10			M 1/2 / / /	-~A	M	Temp 2	[T1 nd	93	
			`   <b>`</b>	_	ν/	m2 2	-21 -480630	.58 dBm	
20		1				<u> </u>			
30		<del>/</del>							
40		<i>[</i>				$\mathcal{L}^{\mathcal{M}}$			
	M					Ĭ	who	M.	3DB
								V	
60									
70									
80									
-90				kHz/				n 3 MHz	

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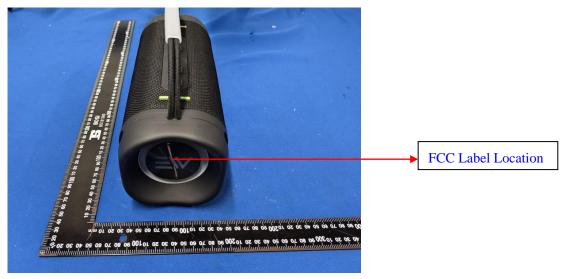


#### 10.0 FCC ID Label

#### FCC ID: 2BB37-ELLC-AQB1

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



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# 11.0 Photo of testing11.1 Conducted test View



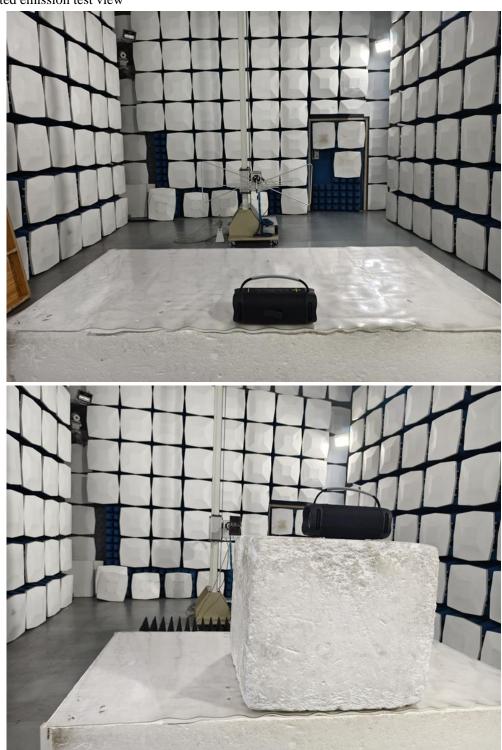
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#### Radiated emission test view



The report refers only to the sample tested and does not apply to the bulk.

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Date: 2025-03-03



## 11.2 Photographs – EUT

## Outside View





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Outside View





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Outside View





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### Outside View



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Inside View





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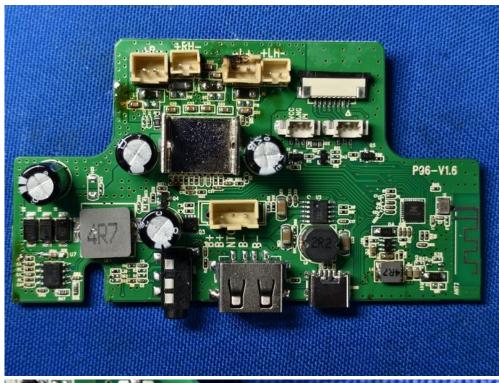
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Inside View





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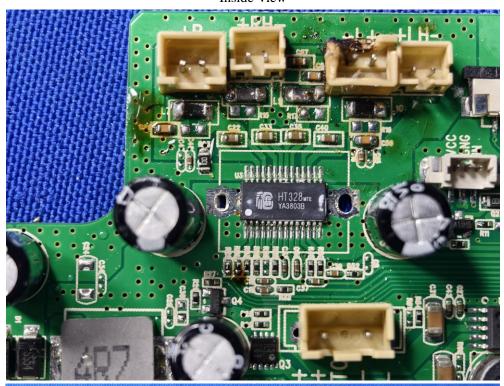
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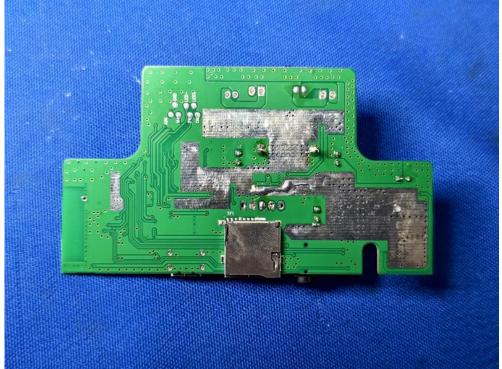
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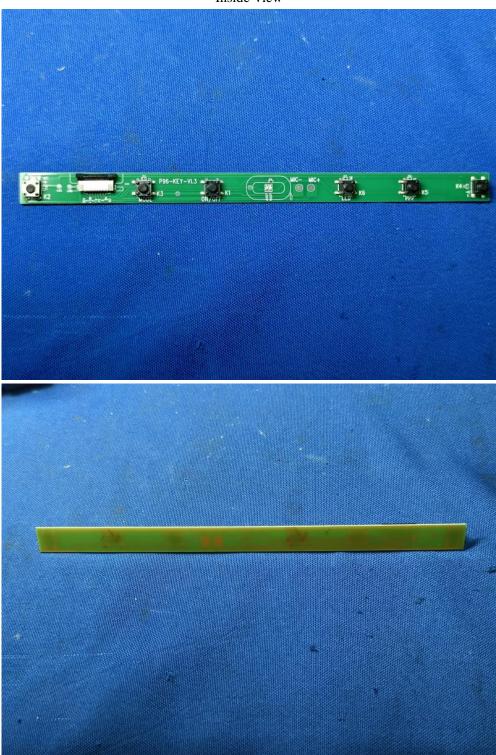
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Inside View



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