

Applicant: TECHNOFASHION INC.

Product: Wireless Headphone

Model No.: UCCHP02, UCCHP02-01, UCCHP02-02, UCCHP02-X02,

UCCHP02-03, UCCHP02-06, UCCHP02-19

Trademark: N/A

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

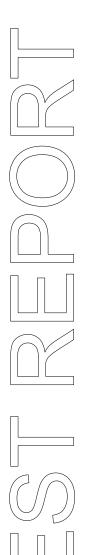
Dated: January 17, 2024

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: 2024-01-17



# 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....

Date: 2024-01-17



#### 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: TECHNOFASHION INC.

Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014

Telephone: +1 (973) 866 7373

Fax: --

## 1.3 Description of EUT

Product: Wireless Headphone

Manufacturer: TECHNOFASHION INC.

Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014

Factory: TECHNOFASHION INC.

Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014

Trademark: N/A

Model Number: UCCHP02

Additional Model Name UCCHP02-01, UCCHP02-02, UCCHP02-X02, UCCHP02-03, UCCHP02-06,

UCCHP02-19

Rating: DC5V, 1A

Battery: DC3.7V, 400mAh Li-ion battery
Modulation Type: GFSK, J/4DQPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz

Hardware Version: LY-9086ANC-6F8-V1.1-0512

Software Version: 9086ANC 7006F8SDK135 靓颖 V1.7

Serial No.: UCCHP02202312

Antenna Designation PCB antenna with gain -0.68dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration 2023-12-28 to 2024-01-17

#### 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	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13		
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13		
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17		
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13		
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	2024-07-17		
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13		
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13		
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	2023-07-14	2024-07-13		
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13		
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13		
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13		
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2023-07-14	2024-07-13		
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13		
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13		
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13		
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13		
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13		

## 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 tested	l according to	o the foll	owing s	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

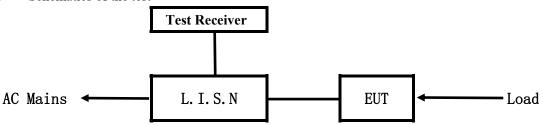
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5.0 Power Line Conducted Emission Test

#### 5.1 Schematics of the test

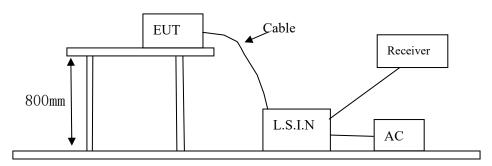


**EUT: Equipment Under Test** 

#### 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	
		UCCHP02, UCCHP02-01, UCCHP02-02, UCCHP02-X02,		
Wireless Headphone	TECHNOFASHION INC.	UCCHP02-03, UCCHP02-06,	2AZBO-N00031	
		UCCHP02-19		

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#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

## C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

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 (d	Limits (dB $\mu$ V)				
(MHz)	Quasi-peak Level	Average Level				
$0.15 \sim 0.50$	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:

Date: 2024-01-17



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

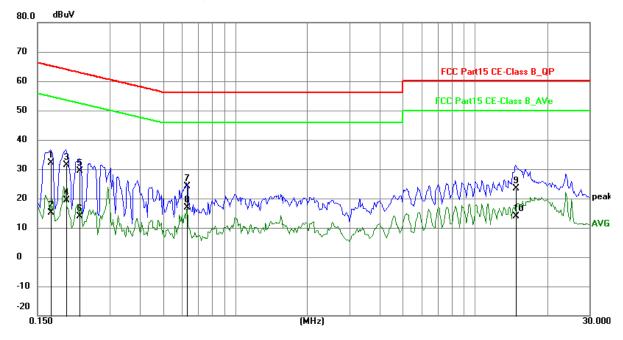
**EUT Operating Environment** 

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

**EUT set Condition: Charging + 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	0.1695	22.34	9.77	32.11	64.98	-32.87	QP	Р
2	0.1695	5.27	9.77	15.04	54.98	-39.94	AVG	Р
3	0.1968	21.60	9.75	31.35	63.74	-32.39	QP	Р
4	0.1968	9.64	9.75	19.39	53.74	-34.35	AVG	Р
5	0.2241	19.72	9.75	29.47	62.67	-33.20	QP	Р
6	0.2241	4.09	9.75	13.84	52.67	-38.83	AVG	Р
7	0.6297	14.27	9.78	24.05	56.00	-31.95	QP	Р
8	0.6297	7.03	9.78	16.81	46.00	-29.19	AVG	Р
9	14.7507	13.11	10.37	23.48	60.00	-36.52	QP	Р
10	14.7507	3.55	10.37	13.92	50.00	-36.08	AVG	Р

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

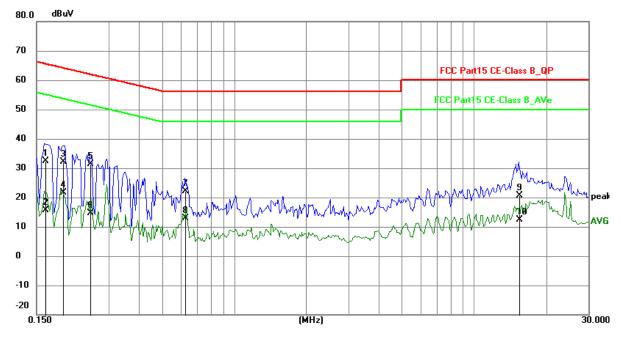
**EUT Operating Environment** 

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

**EUT set Condition: Charging + 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	0.1633	22.52	9.78	32.30	65.29	-32.99	QP	Р
2	0.1633	5.74	9.78	15.52	55.29	-39.77	AVG	Р
3	0.1929	22.36	9.75	32.11	63.91	-31.80	QP	Р
4	0.1929	11.76	9.75	21.51	53.91	-32.40	AVG	Р
5	0.2514	21.66	9.75	31.41	61.71	-30.30	QP	Р
6	0.2514	4.78	9.75	14.53	51.71	-37.18	AVG	Р
7	0.6271	12.24	9.78	22.02	56.00	-33.98	QP	Р
8	0.6271	3.01	9.78	12.79	46.00	-33.21	AVG	Р
9	15.4449	10.32	10.41	20.73	60.00	-39.27	QP Q	Р
10	15.4449	1.95	10.41	12.36	50.00	-37.64	AVG	Р

Date: 2024-01-17



#### **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:

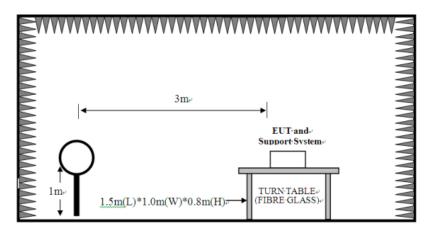
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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**

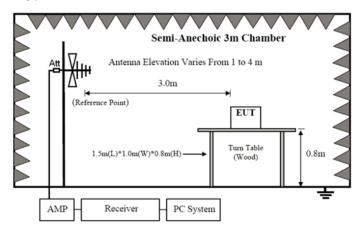
For radiated emissions from 9kHz to 30MHz



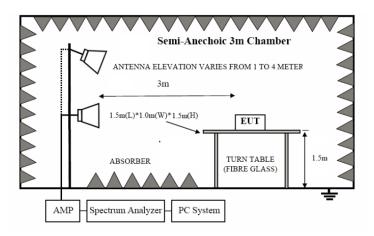
Date: 2024-01-17



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 Stre	ength of Fundamental (3m)	Field S	trength 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)
Z <del>4</del> 00-Z <del>4</del> 03.3	30	74 (Average)	11 <del>4</del> (1 cak)	500	J+ (Avclage)	/4 (F cak)

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 µ 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)
1.705-3	3	69.5
30-80		40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF 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 and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. This is a portable device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 7. Battery fully charged was used during the test.

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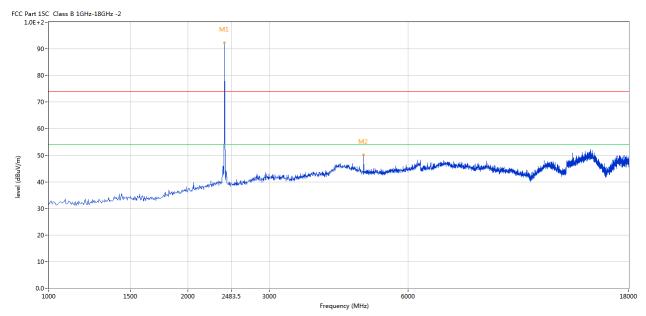


## 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



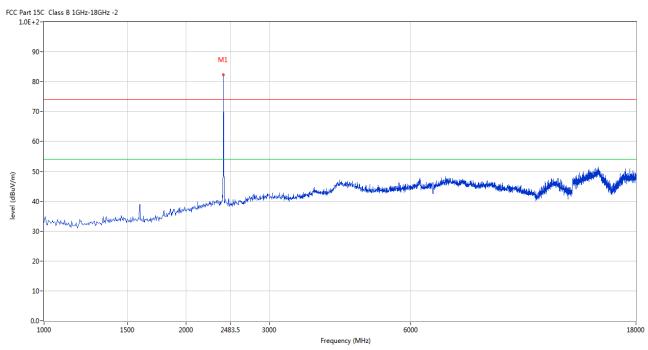
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	92.21	-3.57	114.0	-21.79	Peak	268.00	100	Horizontal	Pass
2	4802.799	50.13	3.12	74.0	-23.87	Peak	256.00	100	Horizontal	Pass

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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	82.39	-3.57	114.0	-31.61	Peak	18.00	100	Vertical	Pass

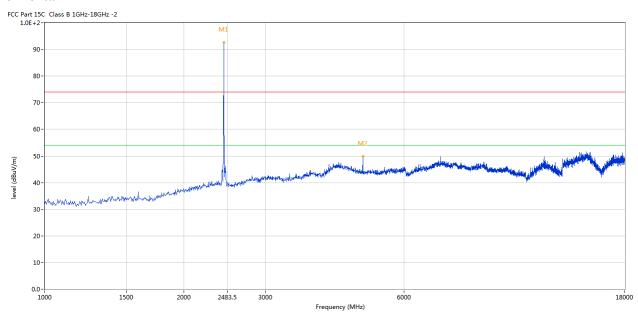
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal



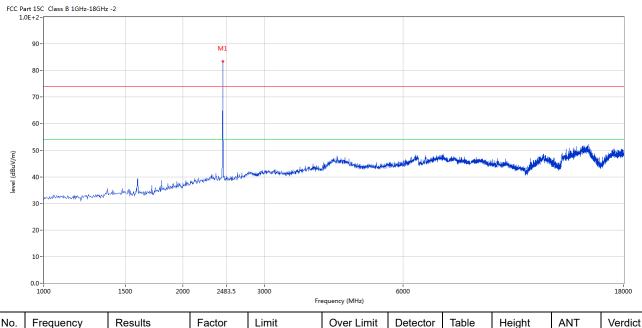
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2441	92.58	-3.57	114.0	-21.42	Peak	285.00	100	Horizontal	Pass
2	4883.529	49.85	3.20	74.0	-24.15	Peak	295.00	100	Horizontal	Pass

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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	83.40	-3.57	114.0	-30.6	Peak	15.00	100	Vertical	Pass

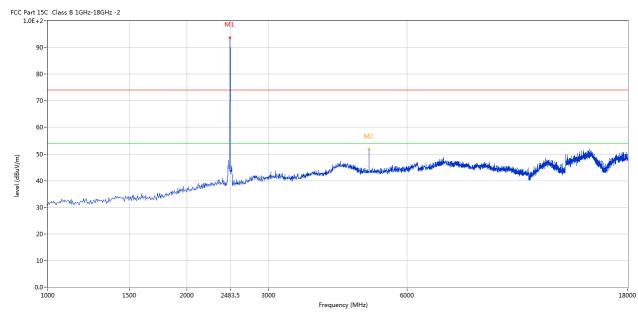
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	93.60	-3.57	114.0	-20.4	Peak	262.00	100	Horizontal	Pass
1**	2480	84.29	-3.57	94.0	-9.71	AV	262.00	100	Horizontal	Pass
2	4960.010	51.77	3.36	74.0	-22.23	Peak	252.00	100	Horizontal	Pass

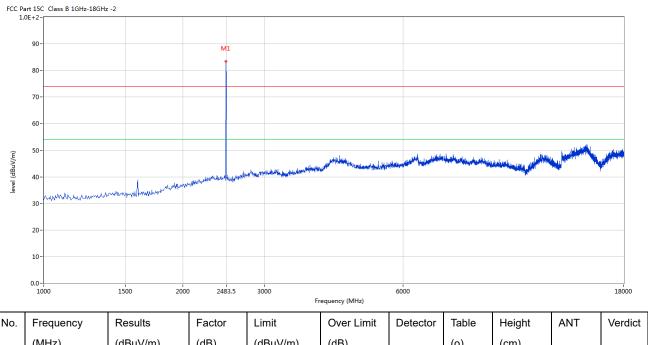
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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	83.41	-3.57	114.0	-30.59	Peak	8.00	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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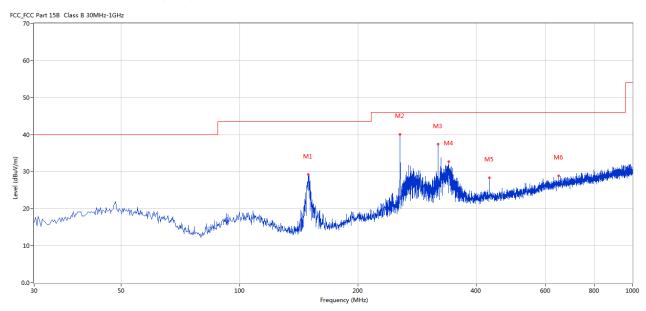


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	149.523	29.20	-17.07	43.5	14.30	Peak	344.00	100	Horizontal	Pass
2	255.954	40.11	-12.02	46.0	5.89	Peak	322.00	100	Horizontal	Pass
3	319.958	37.38	-10.60	46.0	8.62	Peak	251.00	100	Horizontal	Pass
4	340.807	32.68	-9.76	46.0	13.32	Peak	292.00	100	Horizontal	Pass
5	431.965	28.35	-8.09	46.0	17.65	Peak	192.00	100	Horizontal	Pass
6	648.220	28.93	-4.60	46.0	17.07	Peak	12.00	100	Horizontal	Pass

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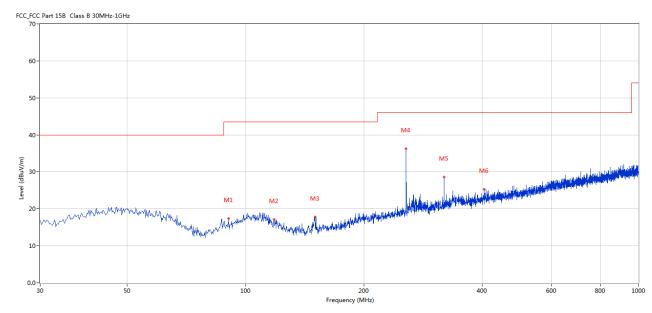


## Radiated Emission In Vertical (30MHz----1000MHz)

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	90.610	17.46	-15.01	43.5	26.04	Peak	120.00	100	Vertical	Pass
2	118.248	17.18	-14.95	43.5	26.32	Peak	185.00	100	Vertical	Pass
3	150.250	17.85	-17.02	43.5	25.65	Peak	285.00	100	Vertical	Pass
4	255.954	36.25	-12.02	46.0	9.75	Peak	6.00	100	Vertical	Pass
5	319.958	28.58	-10.60	46.0	17.42	Peak	12.00	100	Vertical	Pass
6	404.569	25.36	-8.54	46.0	20.64	Peak	6.00	100	Vertical	Pass

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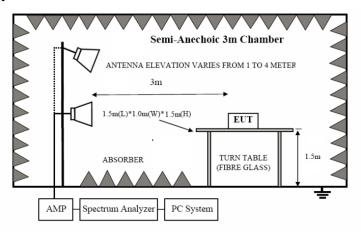


#### 7. Band Edge

#### 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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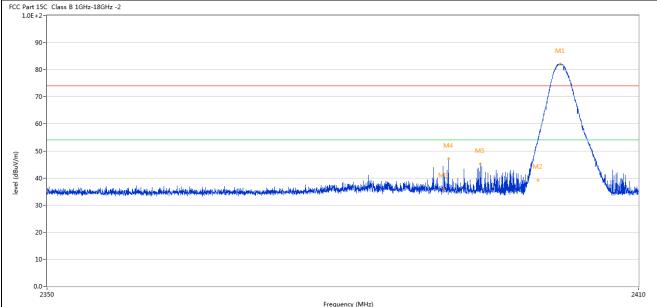


.6 T	est Result							l		
]	Product:	V	Vireless Ho	eadphone		Polar	ity		Horizontal	
	Mode	K	eeping Tra	nsmitting		Test Vo	ltage		DC3.7V	
Te	mperature		24 deg	g. C,		Humic	lity		56% RH	
Te	est Result:		Pas	S						
	rt 15C Class B 1GHz-18GH E+2-	z -2							M1	
	90- 80- 70- 60-							M4M5		
level (dBuV/m)	50 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -	in vide still fall and the segments when the second	والمراد المراد ا	aisennistensistensisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksis	AND THE PROPERTY OF THE PARTY O	deriding method for	<b>13</b>			2410
	30 - 20 - 10 - 2350	na polici sisti de kaldidi nga manin ata an da man			Frequency (MHz)		<b>13</b>			2410
No.	30 - 20 - 0.	Results	Factor	Limit		Detector	Table	Height	ANT	1
	20- 10- 2350 Frequency (MHz)	(dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)  Over Limit (dB)		(0)	(cm)		Verdid
	30- 20- 10- 2350		Factor	Limit	Frequency (MHz)  Over Limit				ANT Horizontal	1
No.	20- 10- 2350 Frequency (MHz)	(dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)  Over Limit (dB)	Detector	(0)	(cm)		Verdi
No.	30- 20- 10- 2350 Frequency (MHz) 2402.247	(dBuV/m) 92.17	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz)  Over Limit (dB)  18.17	Detector Peak	(o) 287.00	(cm) 100	Horizontal	Verdid
No. 1 2	30- 20- 10- 2350 Frequency (MHz) 2402.247 2400.000	(dBuV/m) 92.17 61.97	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0	Frequency (MHz)  Over Limit (dB)  18.17  -12.03	Detector Peak Peak	(o) 287.00 257.00	(cm) 100 100	Horizontal Horizontal	Verdid N/A Pass
No. 1 2 2**	30- 20- 10- 2350 Frequency (MHz) 2402.247 2400.000 2400.000	(dBuV/m) 92.17 61.97 48.93	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Frequency (MHz)  Over Limit (dB)  18.17  -12.03  -5.07	Detector Peak Peak AV	(o) 287.00 257.00 257.00	(cm) 100 100 100	Horizontal Horizontal Horizontal	Verdid N/A Pass Pass

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Product:	Wireless Headphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
FCC Part 15C Class B 1GHz-18GHz -2 1.0E+2-			



	_			rrequency (IVIH2)					
Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2402.007	82.04	-3.57	74.0	8.04	Peak	174.00	100	Vertical	N/A
2400.002	52.85	-3.57	74.0	-21.15	Peak	174.00	100	Vertical	Pass
2400.002	39.19	-3.57	54.0	-14.81	AV	174.00	100	Vertical	Pass
2390.040	35.88	-3.53	74.0	-38.12	Peak	179.00	100	Vertical	Pass
2390.565	47.07	-3.53	74.0	-26.93	Peak	106.00	100	Vertical	Pass
2393.819	45.15	-3.54	74.0	-28.85	Peak	106.00	100	Vertical	Pass
	(MHz) 2402.007 2400.002 2400.002 2390.040 2390.565	(MHz) (dBuV/m)  2402.007 82.04  2400.002 52.85  2400.002 39.19  2390.040 35.88  2390.565 47.07	(MHz)     (dBuV/m)     (dB)       2402.007     82.04     -3.57       2400.002     52.85     -3.57       2400.002     39.19     -3.57       2390.040     35.88     -3.53       2390.565     47.07     -3.53	Frequency (MHz)     Results (dBuV/m)     Factor (dB)     Limit (dBuV/m)       2402.007     82.04     -3.57     74.0       2400.002     52.85     -3.57     74.0       2400.002     39.19     -3.57     54.0       2390.040     35.88     -3.53     74.0       2390.565     47.07     -3.53     74.0	Frequency (MHz)         Results (dBuV/m)         Factor (dB)         Limit (dBuV/m)         Over Limit (dB)           2402.007         82.04         -3.57         74.0         8.04           2400.002         52.85         -3.57         74.0         -21.15           2400.002         39.19         -3.57         54.0         -14.81           2390.040         35.88         -3.53         74.0         -38.12           2390.565         47.07         -3.53         74.0         -26.93	Frequency (MHz)         Results (dBuV/m)         Factor (dBuV/m)         Limit (dBuV/m)         Over Limit (dB)         Detector (dBuV/m)           2402.007         82.04         -3.57         74.0         8.04         Peak           2400.002         52.85         -3.57         74.0         -21.15         Peak           2400.002         39.19         -3.57         54.0         -14.81         AV           2390.040         35.88         -3.53         74.0         -38.12         Peak           2390.565         47.07         -3.53         74.0         -26.93         Peak	. Frequency (MHz) (dBuV/m) (dB) (dBuV/m) (dB) (dBuV/m) (dB) (o)  2402.007 82.04 -3.57 74.0 8.04 Peak 174.00  2400.002 52.85 -3.57 74.0 -21.15 Peak 174.00  2400.002 39.19 -3.57 54.0 -14.81 AV 174.00  2390.040 35.88 -3.53 74.0 -38.12 Peak 179.00  2390.565 47.07 -3.53 74.0 -26.93 Peak 106.00	Frequency (MHz)         Results (dBuV/m)         Factor (dBuV/m)         Limit (dBuV/m)         Over Limit (dB)         Detector (o)         Table (cm)         Height (cm)           2402.007         82.04         -3.57         74.0         8.04         Peak         174.00         100           2400.002         52.85         -3.57         74.0         -21.15         Peak         174.00         100           2400.002         39.19         -3.57         54.0         -14.81         AV         174.00         100           2390.040         35.88         -3.53         74.0         -38.12         Peak         179.00         100           2390.565         47.07         -3.53         74.0         -26.93         Peak         106.00         100	Frequency   Results   Factor   Limit   Over Limit   Detector   Table   Height   ANT

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]	Product:		Wireless	Headphone		P	olarity		Horizont	al
	Mode		Keeping '	Transmitting		Test	t Voltage		DC3.7V	I
Te	mperature		24 0	deg. C,		Н	ımidity		56% RI	I
Te	est Result:		I	Pass						
Part 1 1.0E+	15C Class B 1GHz-18GH	z -2		M1				•		
9	10-		produce	M1						
8	60-									
7	70-			1						
6	60-		<i>/</i>							
		I N	ľ		Pk.					
5	io-	i di Badil Maraik di i di Maraik		N	2	hala a	111			
5	10-			N	2				and the plate of the state of the	A STATE OF THE STA
4	10-			N	2				and the sales and the sales of	his partings
4	10-			N	2				<sub>ked</sub> andelma effektensferde <sub>a</sub> i desjekte	hiperinal property in the second
3	10-			N	2	Haya Araba		antiquista de la deligibilità de la constanta	gyapat dina adik kennye daga daga da	y day beginner
4 3 2	0			N	2			ang sing best designed to the second	gyggatelyng globat na ngipulag si dag pilip	y <sup>lle</sup> ni isagi ngy
4 3 2 1	0-			248		Manual Army Manual		and the second s	<sub>kul</sub> endelija e <sup>gl</sup> ok kenspelle i delijak	y in the second of the second
4 3 2 1	0-	Results	Factor		3.5	Detector	Table	Height	ANT	Verd
4 3 2 1	0-2470	Results (dBuV/m)	Factor (dB)	248	3.5 Frequency (MHz)	Detector	Table (o)	Height (cm)	ANT	ı
4 3 2 1 0.	0- 0- 0- 2470 Frequency			248 Limit	3.5 Frequency (MHz)	Detector Peak			ANT Horizontal	ı
4 3 2 1	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)		(0)	(cm)		Verd

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	Product:		Wireless H	Ieadphone		Detec	tor		Vertical	
	Mode	]	Keeping Tr	ansmitting		Test Vo	ltage		DC3.7V	
Te	mperature		24 de	g. C,		Humio		56% RH		
Te	est Result:		Pa	SS						
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								
9	90-		M1							
8	80-		Mary Mary	<b>W</b>						
7	70-									
	50-		- And	1						
6										
	50-	W <sub>U</sub>	/	M2						
	10-			M2	Notice to the last section of the last section	والمالية ومراأ والرداد الدوري	النف أنسته معالد للاستام شقع	بالهنار بين فيمرانات ريضا أما أنف ذهب	علىدر يومل والمرابع رواط المار	Maralla de la
5		Marie Ma	<i>f</i>	M2		apitaidh andribhinn dhibhigh	عاضانية إيرانيا بأحضورا يمنأ	مرجوع فيالحا وعيدية فأطيعوا ورابط	yddyddigg aethor (gydd <mark>gydda gerl</mark> an	napra <b>bul</b> a difen
5	10-		<i></i>	MM2		erinida erekisikere erekiskisk	عاضية بالمتاب أحدود المتا	neningidak ang gadangan histo	of the design of	nav <b>a</b> lahin
3	10- mallings when designed and addition		<i></i>	M/2		er e	عاجزا بدار بالمار في المار	unngikton johntovirdi	ndahitik selan lendelende selan	na dadada
3 2 2	10		<i></i>	Market Ma		egetydd andiffenn diddyd	akhdistopidipheapelimä	uringalah ang gindendin sirih	ndahis adam ganiquan saha	no de de la comp
3 2 2	10-			2483.5	requency (MHz)	entrologica estab	atadissis, etdi, deanel, ma	nerapilatan, gidunturirda	ndishiik wakari garigana kaba	2500
3 2 1 0.	10	Results	Factor			Detector	Table	Height	ANT	2500
3 2 1 0.	00-2470	Results (dBuV/m)	Factor (dB)	-	requency (MHz)					2500
(w/nngp) iahai 3	10			Limit	requency (MHz)  Over Limit		Table	Height		

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

2. For Restricted band test, the two modulation modes of GFSK and 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. The antenna gain is -0.68dBi Max. 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	Headphone		Test Mode:	:	Keep trai	nsmitting	
Mode	Keeping 7	Transmitting		Test Voltage	e	DC3	3.7V	
Temperature	24 c	leg. C,		Humidity		56%	RH	
Test Result:	P	ass		Detector		P	K	
dB Bandwidth	926kHz					-	-	
	Delta 1 [	T1]	RE	30 I	kHz R	F Att	20 dB	
Ref Lvl		-0.57 dB	VB					
10 dBm	925.8	5170340 kHz	SW	T 8.5 t	ms U	nit	dBı	m
				<b>v</b> <sub>1</sub>	[T1]	-1	7.60 dBr	n
0		$\frac{2}{7}$				2.4015	6413 GHz	
		100		<u>^</u> 1		-	0.57 dB	
		/		$\setminus$ $\vee$		45.851/	0340 kHz 1.75 dBr	
-10				7		2.4018	4669 GH <sub>2</sub>	1
_D1 -18.25	dBm	<b>*</b>		1				
1MAX		<b>V</b>		1	1			1
				V	5			
-30					M			
					\			
40					\ \			
-50						<u> </u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	٨
							~~	
-60								-
-70								1
-80								-
-90 Center 2.40	)2 CH2	300	lette /		1	G	an 3 MHz	_

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GFSK											
Product:		Wirele	ss Headph	ione		Т	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		To	est Voltage	;	DC	3.7V	
Temperature		2	4 deg. C,			]	Humidity		56%	% RH	
Test Result:			Pass				Detector		PK		
20dB Bandwidth		986kHz									
		Delta 1				.BW	30 k		F Att	20 dB	
Ref Lvl		0.05		40 dB		BW	100 k			1-	
10 dBm		985	5.971943	889 KHZ	S	WT	8.5 m	s U	nit	dBr	n T
				2			<b>v</b> <sub>1</sub>	[T1]	-17	.97 dBm	A
0				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				F1-3	2.44050		
				1,000	$\mathcal{M}$	٧,	<u>1</u>	[T1]	85.97194	1.40 dB 1389 kHz	
-10				$\sim$		7	$\nabla_2$	[T1]	2	.03 dBm	
—D1 −17.	07 40-		1 c				1		2.44084	669 GHz	
-20	97 abiii-		<del></del>				4				1
-30		ſ	ſ					\			1MA
									a /^>		
-40	m w	$\checkmark$						<b>V</b>		404	
-50										hadre the	
-60											-
-70											-
-80											_
-90 Center 2	.441 GH	Hz		300	kHz/				Spa	ın 3 MHz	<u>]</u>
Date: 12	2.JAN.2	024 14	:03:35								

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FSK	T				ı						
Product:			ss Headph				Mode:			nsmitting	
Mode			g Transmi	tting			Voltage			3.7V	
Temperature		2	4 deg. C,				nidity		56% RH		
Test Result:			Pass			Det	ector		]	PK	
0dB Bandwidth		1.	.010MHz								
€ <b>À</b>	Delta 1 [T1]					W	30 k	Hz R	F Att	20 dB	
Ref Lvl	-1.05 dB						L00 k				
10 dBm		1.01002004			SW'	Т 8	3.5 m	s U	nit	dBm	n _
10				2			<b>v</b> <sub>1</sub>	[T1]	-17	.35 dBm	A
				Ž,					2.47950	401 GHz	
0				100	$\mathcal{N}$		<u>^</u> 1	[T1]	-1	.05 dB	ĺ
				$\sim$	~	4	<b>▽</b> 2	[11]	1.01002	004 MHz	
-10				<del>/</del>		4	- 2	1111	2.47984		ĺ
—D1 −17.	97 dBm	97 dBm					1				
-20	97 UBIII						1				
1MAX		ſ	<b>/</b>				V	М			1M
-30								<u> </u>			1
40	4.0										
-40	مرکمر	~						4		~~~	
-50										W 4	
-60											
-70											
-80											
								·			
-90											
Center 2	.48 GH:	z		300	kHz/				Spa	ın 3 MHz	_
eate: 12	2.JAN.2	024 14	.00.24								

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/4DQPSK		XX7:. 1	II 1 '	1		т	4 N		IZ 4.	:44:	
Product:			ess Headp				est Mode:	-	Keep tran		
Mode			ng Transm				est Voltage		DC3		
Temperature		2	24 deg. C,				Humidity		56%		
Test Result:			Pass				Detector		Pk	ζ	
0dB Bandwidth		1	.257MHz								
<u> </u>	Marker	1 [T1 n	ndB]	R.	BW	30 k	Hz Rl	F Att	20 dB		
Ref Lvl		ndB		00 dB		BW	100 k				
10 dBm	BW 1	.256513	03 MHz	S	WT	8.5 m	s Ui	nit	dBn	n	
10							<b>v</b> <sub>1</sub>	[T1]	1	.77 dBm	Z
				1 X					2.40184	669 GHz	
0				/\ /	\		ndB		20	.00 dB	1
			~~ ~	J W	$\wedge \wedge $	^	M BW BW		1.25651	303 MHz	
-10			/ / /		· ·	<u>V.</u>	V^T	[T1]	-17	.75 dBm	
		T	$\mathcal{A}$				<b>⊽</b> т	T2 <b>7</b> [T1]	2.40138 -18		
-20							1 4	VIIII	2.40264	028 GHz	
1MAX											1M
-30		MAN						V			
-40	<b>1</b> /\dot\	/ ••						\	M	m/	
-50											
-60											
-70											
-80											
-90											
Center 2.	402 GF	łz		300	kHz/				Spa	ın 3 MHz	i

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Product:	Wirele	ss Headph	one	T	T	est Mode:		Keep tra	ansmitting	_
Mode		g Transmit			Te	est Voltage	:	DC	23.7V	
Temperature	2	4 deg. C,			I	Humidity		569	% RH	
Test Result:		Pass			Detector			]	PK	
0dB Bandwidth	1	.257MHz								
Ŕ	Marker 1 [T1 ndB]				BW	30 k	Hz Ri	F Att	20 dB	
Ref Lvl	ndB 20.00 dB				BW	100 k				
10 dBm	BW 1	1.256513	03 MHz	SI	TW	8.5 m	s Ui	nit	dBm	ı
10			1			<b>v</b> <sub>1</sub>	[T1]	2	.02 dBm	A
			X					2.44084	669 GHz	
0			//	\		ndE	3	20	0.00 dB	
		~w		$\sim$		BW	[11]	1.25651	303  MHz	
-10						<u> </u>		2.44037		
	T.			$\nabla_{\mathrm{T}}$	_ \T2			lBm		
-20							2.44163427			1M
IMAX							\			I
-30							4			
							$\sim$	<b>/</b> مر		
-40	w						<u> </u>	$\sqrt{\mathcal{M}}$	m /	
								1	$\sim$	
-50										
-60										
-70										
-80										
-90										
Center 2.4	41 GHz		300	kHz/				Spa	an 3 MHz	

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I/4DQPSK											
Product:		Wirele	ss Headph	ione		Γ	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		T	est Voltage	;	DC	23.7V	
Temperature		2	4 deg. C,				Humidity		569	% RH	
Test Result:			Pass				Detector		]	PK	
20dB Bandwidth		1.	.257MHz								
Ŕ		Marker 1 [T1 ndB]					30 k	Hz I	RF Att	20 dB	
Ref Lvl		ndB		00 dB	V	BW	100 k				
10 dBm		BW 1	1.256513	03 MHz	S	TW	8.5 m	ıs T	Jnit	dBm	n
10				1			<b>v</b> <sub>1</sub>	[T1]		2.04 dBm	A
				X					2.47984	4669 GHz	
0				/\ /	\		ndF	0	20	0.00 dB	1
			~~~		V~~	m	BW	[T1]	1.25651	1303 MHz	
-10			$\sqrt{}$	•			V /		2.47937		ĺ
		Te					$\nabla_{\mathrm{T}}$	$\nabla^2$ [T1] -18.05 di			
-20								4	2.48062826 G		
1MAX		/									1M2
-30								<u> </u>			
	ر المراكب	W/I						7	M		
-40	W/W								Jana	M /	
W.										~~~~	
-50											
-60											
-70											
-80											
-90											ļ
Center 2	2.48 GH:	Z		300	kHz/				Spa	an 3 MHz	
Date: 1	2.JAN.2	024 13	:58:06								

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Date: 2024-01-17



#### 10.0 FCC ID Label

#### FCC ID: 2AZBO-N00031

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:



FCC Label Location

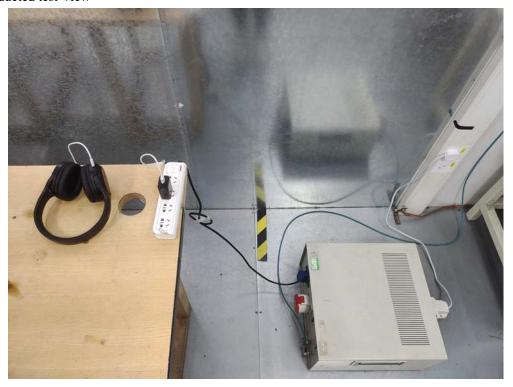
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#### 11.0 Photo of testing

#### 11.1 Conducted test View



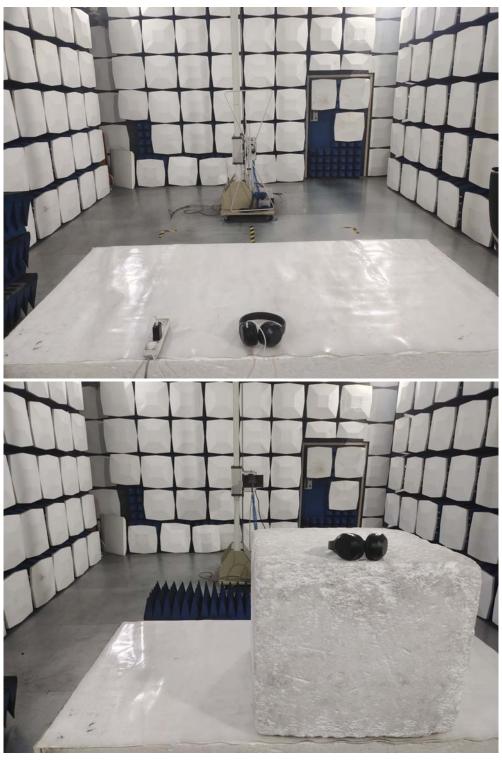
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#### Radiated emission test view



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

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#### 11.2 Photographs – EUT

#### Outside View



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Outside View





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Outside View





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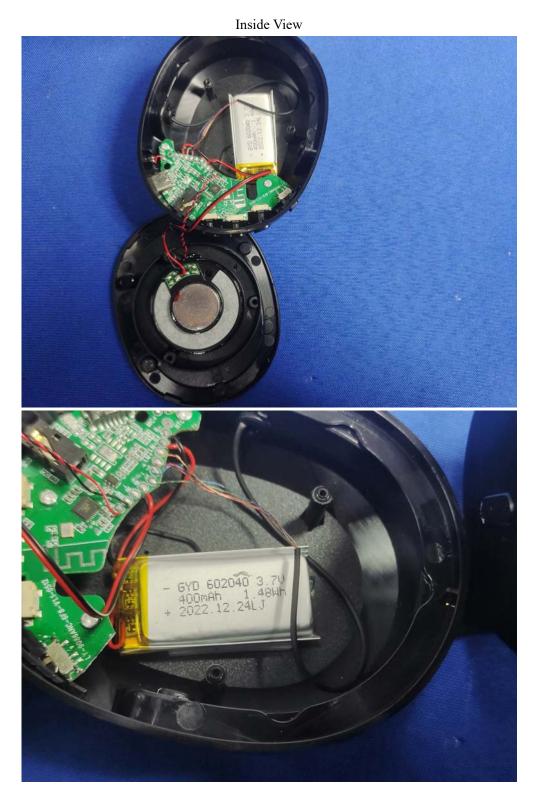
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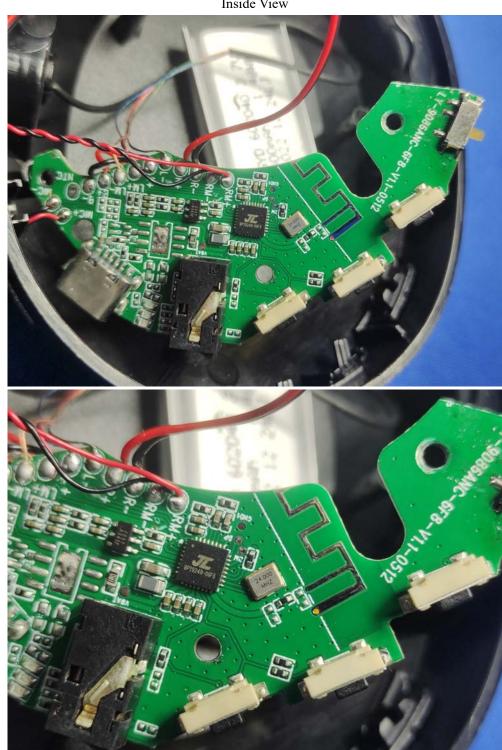
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Inside View



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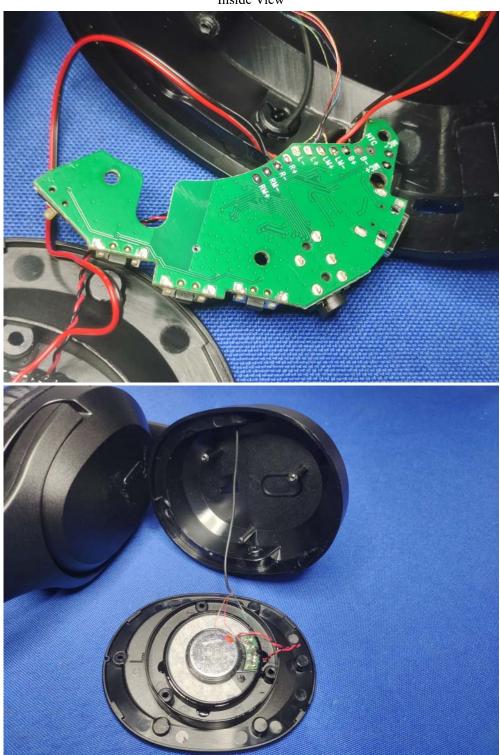
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Inside View



-- End of the report--

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