

Report No.: TW2410130E

Applicant: TECHNOFASHION INC.

Product: Wireless Earphone

Model No.: T670, UCCWS16-X01, UCCWS16-X02, UCCWS16-X03,

UCCWS16-X25, UCCWS16-01, UCCWS16-02,

UCCWS16-06, UCCWS16-11, UCCWS16-12, UCCWS16-15,

UCCWS16-19

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: November 04, 2024

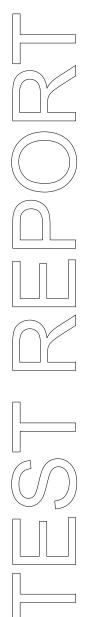
Results appearing herein relate only to the sample tested

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

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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: TECHNOFASHION INC.

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

#### 1.3 Description of EUT

Product: Wireless Earphone

Manufacturer: TECHNOFASHION INC.

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

Trademark: N/A Model Number: T670

Additional Model Name UCCWS16-X01, UCCWS16-X02, UCCWS16-X03, UCCWS16-X25,

UCCWS16-01, UCCWS16-02, UCCWS16-06, UCCWS16-11, UCCWS16-12,

UCCWS16-15, UCCWS16-19

Rating: DC5V input or Built-in DC3.7V, 25mAh Li-ion battery for earphones and DC5V

input or Built-in DC3.7V, 300mAh Li-ion battery for charger base.

Serial No.: T67020240828115B

Hardware Version: T670-V1.1
Software Version: T670-V1.1
Operation Frequency: 2402-2480MHz

Modulation Type: GFSK, Л/4DQPSK, 8DPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation Chip antenna with gain 2.7dBi maximum (Get from the antenna specification)

#### 1.4 Submitted Sample: 2 Samples

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#### 1.5 Test Duration

2024-10-28 to 2024-11-04

## 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	1	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	n tested accor	ding to the foll	owing 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

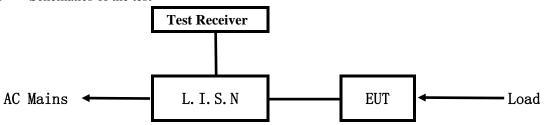
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#### 5.0 Power Line Conducted Emission Test

#### 5.1 Schematics of the test

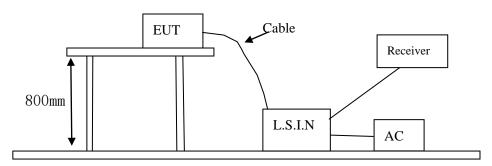


**EUT: Equipment Under Test** 

#### 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
		T670, UCCWS16-X01,	
	rphone TECHNOFASHION INC.	UCCWS16-X02, UCCWS16-X03,	
Wireless Fembone		UCCWS16-X25, UCCWS16-01,	2AZBO-N00035
Wireless Earphone		UCCWS16-02, UCCWS16-06,	ZAZDO-NUUU33
		UCCWS16-11, UCCWS16-12,	
		UCCWS16-15, UCCWS16-19	

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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 (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:

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

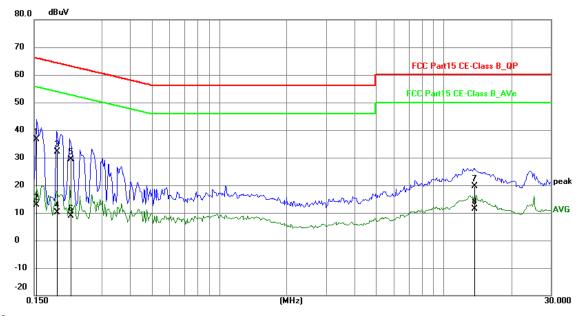
## **EUT Operating Environment**

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

**EUT set Condition: 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	0.1539	26.81	9.78	36.59	65.79	-29.20	QP	Р
2	0.1539	3.18	9.78	12.96	55.79	-42.83	AVG	Р
3	0.1890	22.40	9.76	32.16	64.08	-31.92	QP	Р
4	0.1890	0.36	9.76	10.12	54.08	-43.96	AVG	Р
5	0.2185	19.57	9.75	29.32	62.88	-33.56	QP	Р
6	0.2185	-0.92	9.75	8.83	52.88	-44.05	AVG	Р
7	13.6665	9.29	10.32	19.61	60.00	-40.39	QP	Р
8	13.6665	1.14	10.32	11.46	50.00	-38.54	AVG	Р

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

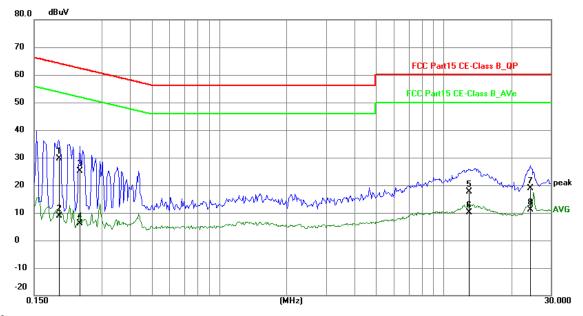
#### **EUT Operating Environment**

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

**EUT set Condition: 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	0.1929	19.80	9.75	29.55	63.91	-34.36	QP	Р
2	0.1929	-0.88	9.75	8.87	53.91	-45.04	AVG	Р
3	0.2397	15.42	9.75	25.17	62.11	-36.94	QP	J
4	0.2397	-3.52	9.75	6.23	52.11	-45.88	AVG	Р
5	12.9645	7.25	10.29	17.54	60.00	-42.46	QP	Р
6	12.9645	-0.14	10.29	10.15	50.00	-39.85	AVG	П
7	24.2744	7.97	10.94	18.91	60.00	-41.09	QP	П
8	24.2744	0.14	10.94	11.08	50.00	-38.92	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:

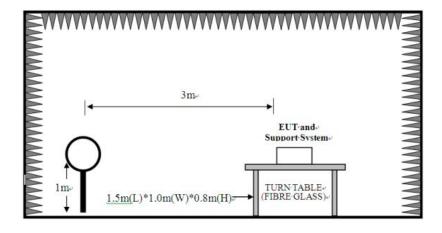
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

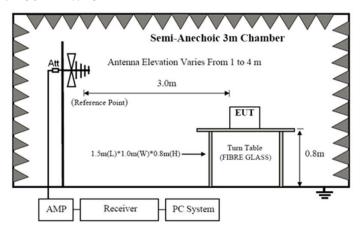


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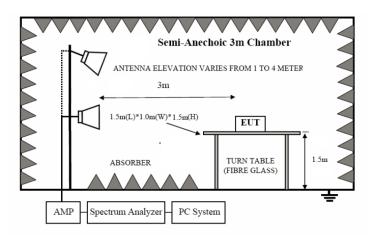
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For radiated emissions from 30MHz to1GHz



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 Stre	ength 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)
2700-2703.3	50	JT (Michago)	11+ (1 cak)	500	J+ (Michago)	/ <del>- (1 Cak)</del>

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	40.0				
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 three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK 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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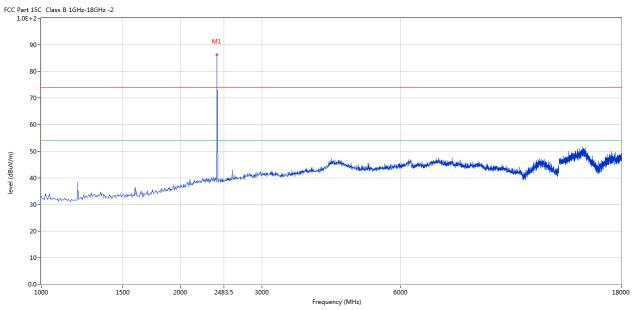


#### 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

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

#### **Horizontal**



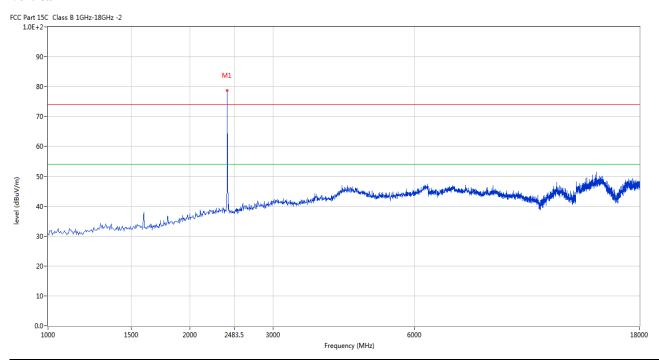
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	86.29	-3.57	114.0	-27.71	Peak	89.00	100	Horizontal	Pass

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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	78.76	-3.57	114.0	-35.24	Peak	48.00	100	Vertical	Pass

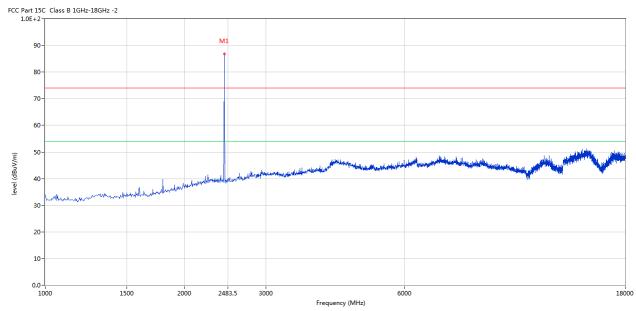
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



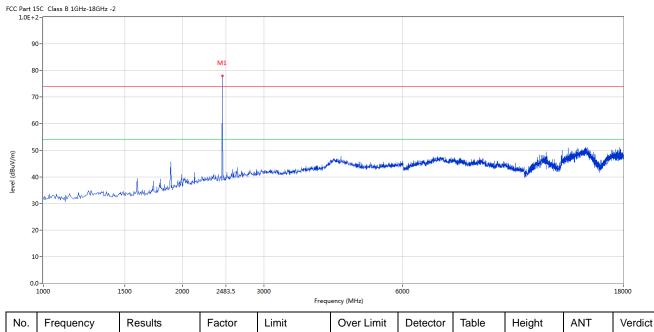
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	86.79	-3.57	114.0	-27.21	Peak	193.00	100	Horizontal	Pass

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#### Vertical



N	lo.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2441	77.94	-3.57	114.0	-36.06	Peak	343.00	100	Vertical	Pass

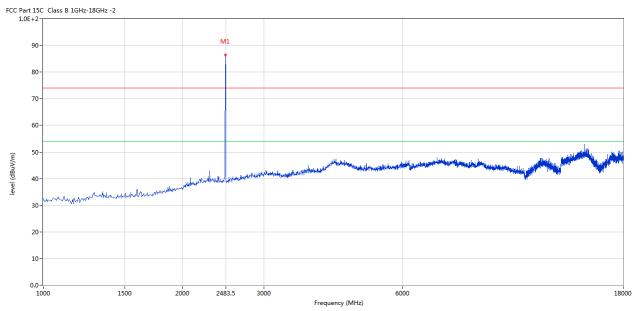
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Please refer to the following test plots for details: High Channel-2480MHz

#### **Horizontal**



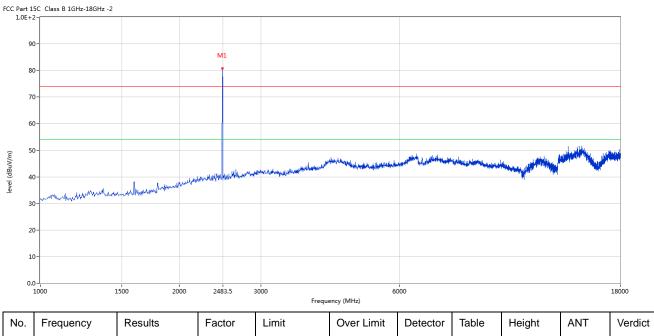
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	86.53	-3.57	114.0	-27.47	Peak	111.00	100	Horizontal	Pass

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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	80.78	-3.57	114.0	-33.22	Peak	51.00	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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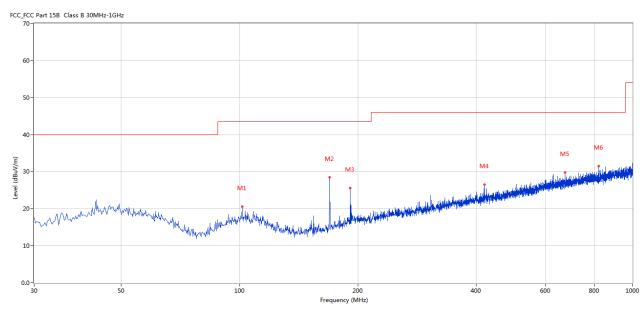


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	101.520	20.53	-13.44	43.5	22.97	Peak	302.00	100	Horizontal	Pass
2	169.645	28.44	-16.06	43.5	15.06	Peak	170.00	100	Horizontal	Pass
3	191.222	25.60	-14.19	43.5	17.90	Peak	179.00	100	Horizontal	Pass
4	419.600	26.56	-8.26	46.0	19.44	Peak	175.00	100	Horizontal	Pass
5	673.677	29.81	-4.45	46.0	16.19	Peak	25.00	100	Horizontal	Pass
6	819.868	31.48	-2.94	46.0	14.52	Peak	74.00	100	Horizontal	Pass

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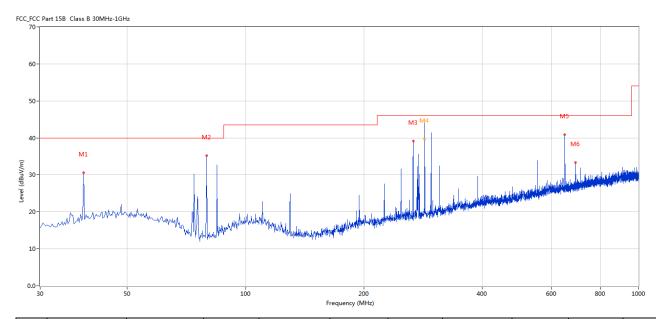


## Radiated Emission In Vertical (30MHz----1000MHz)

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	38.728	30.55	-12.63	40.0	9.45	Peak	147.00	100	Vertical	Pass
2	79.700	35.19	-17.45	40.0	4.81	Peak	137.00	100	Vertical	Pass
3	266.863	39.13	-11.76	46.0	6.87	Peak	144.00	100	Vertical	Pass
4	285.464	45.35	-11.32	46.0	0.65	Peak	3.00	107	Vertical	Pass
4*	285.464	39.67	-11.32	46.0	6.33	QP	3.00	107	Vertical	Pass
5	649.675	40.81	-4.65	46.0	5.19	Peak	3.00	100	Vertical	Pass
6	692.102	33.37	-4.35	46.0	12.63	Peak	127.00	100	Vertical	Pass

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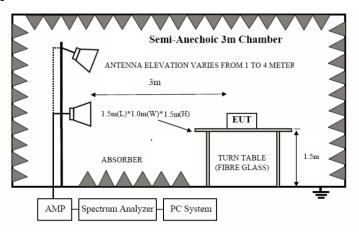


#### 7. Band Edge

#### 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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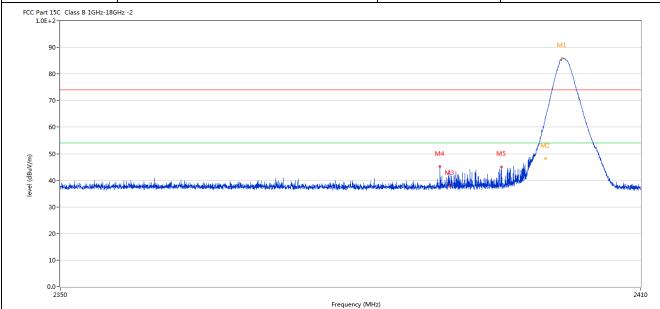
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#### 7.6 Test Result

Product:	Wireless Earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.797	85.82	-3.57	74.0	11.82	Peak	189.00	100	Horizontal	N/A
2	2400.042	63.32	-3.57	74.0	-10.68	Peak	189.00	100	Horizontal	Pass
2**	2400.042	48.15	-3.57	54.0	-5.85	AV	189.00	100	Horizontal	Pass
3	2390.085	37.90	-3.53	74.0	-36.10	Peak	168.00	100	Horizontal	Pass
4	2389.095	45.19	-3.53	74.0	-28.81	Peak	158.00	100	Horizontal	Pass
5	2395.454	45.09	-3.55	74.0	-28.91	Peak	163.00	100	Horizontal	Pass

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	Product: Wireless Earphone					Detect	or		Vertical		
	Mode	F	Keeping Tr	ansmitting		Test Vol	tage		DC3.7V		
Te	mperature		24 de	g. C,		Humid	ity	56% RH			
Te	est Result:		Pas	SS							
	t 15C Class B 1GHz-18GF E+2-	lz -2									
	90-										
									M1		
	80-								$\wedge$		
	70-							/			
	60-								-		
_	50-					M4	M5	M6			
evel (dBuV/m)		ر ما الله الله المرافع المساور				بإرأ	وعاجا الطفالي والمارا	, M2			
eve	30-	تفييقها والهوالة القنداء مساهد مستعدين والقطامة سيطاه									
										241	
	30 - 20 - 10 - 0.0 - 2350				Frequency (MHz)					I	
	30 - 20 - 10 - 2350 Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	I	
	20- 10- 0.0- 2350 Frequency (MHz)			Limit (dBuV/m)	1	Detector	Table (o)	Height (cm)		Verdi	
No.	20- 10- 0.0- 2350 Frequency (MHz) 2401.797	Results (dBuV/m) 77.84	Factor (dB) -3.57	(dBuV/m) 74.0	Over Limit (dB)	Detector Peak	(o) 109.00	(cm)	ANT Vertical	I	
No. 1	20- 10- 2350 Frequency (MHz) 2401.797 2400.012	Results (dBuV/m)	Factor (dB)	(dBuV/m)	Over Limit (dB) 3.84 -18.88		(o) 109.00 109.00	(cm)	Vertical Vertical	Verdi	
No. 1	20- 10- 0.0- 2350 Frequency (MHz) 2401.797 2400.012 2400.012	Results (dBuV/m) 77.84 55.12 39.95	Factor (dB) -3.57 -3.57	(dBuV/m) 74.0 74.0 54.0	Over Limit (dB) 3.84 -18.88 -14.05	Peak Peak AV	(o) 109.00 109.00 109.00	(cm)	Vertical	Verdi	
No.	20- 10- 2350 Frequency (MHz) 2401.797 2400.012 2400.012 2390.040	Results (dBuV/m) 77.84 55.12 39.95 37.78	Factor (dB) -3.57 -3.57 -3.57 -3.53	(dBuV/m) 74.0 74.0 54.0 74.0	Over Limit (dB)  3.84  -18.88  -14.05  -36.22	Peak Peak	(o) 109.00 109.00 109.00 8.00	(cm) 100 100 100	Vertical Vertical	Verdie N/A Pass	
No.	20- 10- 0.0- 2350 Frequency (MHz) 2401.797 2400.012 2400.012	Results (dBuV/m) 77.84 55.12 39.95	Factor (dB) -3.57 -3.57	(dBuV/m) 74.0 74.0 54.0	Over Limit (dB) 3.84 -18.88 -14.05	Peak Peak AV	(o) 109.00 109.00 109.00	(cm) 100 100	Vertical Vertical Vertical	Verdid N/A Pass Pass	
	20- 10- 2350 Frequency (MHz) 2401.797 2400.012 2400.012 2390.040	Results (dBuV/m) 77.84 55.12 39.95 37.78	Factor (dB) -3.57 -3.57 -3.57 -3.53	(dBuV/m) 74.0 74.0 54.0 74.0	Over Limit (dB)  3.84  -18.88  -14.05  -36.22	Peak Peak AV Peak	(o) 109.00 109.00 109.00 8.00	(cm) 100 100 100	Vertical Vertical Vertical Vertical	Pass Pass Pass	

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Product:		Wireles	s Earphone		P	olarity		Horizont	tal
Mode		Keeping '	Transmitting		Tes	t Voltage		DC3.7\	V
Temperature		24 0	deg. C,		Hı	ımidity		56% RH	
Test Result:		I	Pass						
C Part 15C Class B 1GHz-18GH	ız -2								
90-		M1							
80-									
70-									
60 -	M2								
	11.10								
50-		<i>r</i>		<u> </u>					
50-	When the state of	<b>,</b>		the made	na da na a Las			a al tras see constant a la la	lel
40-	marine and a reasonable finding the little before			A Company of the Comp	التطعية للمائية المائية	adisdador dispersado antichista esta	angeles al la faith de la de la colon de l	dari kating pang belik pilat dari dari kangkal	Magnesiphi
50 - 40	ng ang ang ang ang ang ang ang ang ang a			and and and	itadaselleldelahitus ilya desiringa	ediselectron Bernardia antichistoria	aaphist ladyis dhirtadh redhire af soon	dead hald dear year the state of the backwards of the state of the sta	Magazaraha
40-	nganganaka (panganaka dipanganaka dipanganaka dipanganaka dipanganaka dipanganaka dipanganaka dipanganaka dipa			and soulistee he	المتطعين فالمضافية علمه مأمعوا يعيه	silisahah ya disparaha asih ingerin	aapika kapis dirindradii rapaan	dent hid den jama ketingan den den den den den den den den den de	Magnessphr
40 - Marie Marie Carlos Andreas Andrea	universal de la			And the second s	فيعتبر المنشئة فيعام المناف	ali alaha pengerakan kangan	marian productiva	dead had the years with year to dead had the	Magazaphe
30 - 20 - 10 -	universitati ya karaka ka			and south trade	tisdan bishaku dan basan	all atalogs, dispersable and his train	andari kara kibi dabastan di Lot	dead had their years a stranger for the stranger best dead as well as the stranger best dead as	Magazzan
40	union sanda principale de la filia de la f		2483.		tiskon kite dirik iku dina dina singa	ali dada ya daya anda sasi ka ka ka a	makarlassa dirindradirak usu	dent hat the year with year the described	2500
30 - 20 - 2470	Results	Factor	2483.	5	Detector	Table	Height	Antidagas virus de	2500
30 - 20 - 10 - 2470		Factor (dB)	<u> </u>	5 Frequency (MHz)					2500
30- 20- 10- 2470	Results		Limit	5 Frequency (MHz)		Table	Height		

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]	Pro	oduct:		Wireless I	Earphone	Dete	ector		Vertical	
	M	Mode	I	Keeping Tra	ansmitting	Test V	oltage		DC3.7V	
Te	emp	perature		24 de	g. C,	Hum	idity		56% RH	
Те	est	Result:		Pas	SS	-	-			
	rt 150 )E+2-	6C Class B 1GHz-18GH:	z -2			•				
	90-	_								
	30			M1						
	80-	1		مامسم	~					
	70-	-			1					
				ſ	<i>)</i>					
	60-	-		- A	1					
0	50-				MAN M2					
dBuV/m)	50-	1-	1 I ulle		M2	0 11		udi k	n.l	
level (dBuV/m)		1-	Marking to be a second of the		M2	······································	والمعارض والم والمعارض والمعارض والمعارض والمعارض والمعارض والمعارض والمعار	handlah mentu	in tied on his sign believe to the	i sa ra sa
level (dBuV/m)	50-	- Mariahalti da Janasa	Maddinden and State of the Andrews		M2	oonalisha jirah kanan dani jihudi bija ka	man di delangia saleh	the state of the s	madaahii aa kadaan ka	
level (dBuV/m)	50 - 40 -		Waddisharakin dayabah		M2	~~didadhiraban adaidhiridh	بالالدراما ومدامة أربار مدم	the south the second to	nadaki septebbendi	
level (dBuV/m)	50 - 40 - 30 -		ti tandak sekita kanping kanpinda da		M2	······································	nga kulanda didi.	hanalikhamanku	in the house of the second	Alfa father Marie
level (dBuV/m)	50- 40- 30- 20-	- antesisti official color vice or	Washington and a shape		M2		nga hide daga basal	the state of the s	nadavi, sejvetendi	tterten (
level (dBuV/m)	50- 40- 30- 20- 10-	- antesisti official color vice or	Wandarakan ang kanpakan		2483.	requency (MHz)	onsa kidokadah seleli	hanaldod ana asku	a uda ka zapisa ka da	2500
ارس/MBD او،موا (س/MBD) او،موا	50- 40- 30- 20- 10- 0.0- 24	- Microsoft of the Anna Market	Results	Factor	2483.			Height	ANT	2500
	50- 40- 30- 20- 10- 0.0- 24	470		Factor (dB)	<u> </u>	requency (MHz)				
	50- 40- 30- 20- 10- 0.0- 24	Frequency	Results		Limit	requency (MHz)  Over Limit Detector	r Table	Height		2500

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

2. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK 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 Chip antenna with gain 2.7dBi 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 Earphone		Test Mode:	Keep transmitting		
Mode	Keeping Transmitting	7	Test Voltage	DC3.7V		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	PK		
20dB Bandwidth	894kHz					
Ref 10 d	Bm *Att 20 dB		0 kHz	er 1 [T1 ] -0.44 dBm 2.401814000 GHz		
10	1	0	ndB BW 8 Temp	1 [T1 ndB] A		
MAXH10		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Temp	-20.06 dBm 2.401526000 GHz 2 [T1 ndb]		
20	T1/		T2	-20.82 dBm 2.402420000 GHz		
30			1			
40	may !		1	M		
5-5 N-7-10				3DB		
60						
70						
80 90						
Center 2.	402 GHz 300	kHz/		Span 3 MHz		

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Product:		W	ireless Ea	rphone		Test	Mode:		Keep trans	smitting
Mode		Kee	ping Tran	nsmitting		Test '	Voltage		DC3.	7V
Temperature			24 deg.	C,		Humidity		56% RH		RH
Test Result:			Pass			Det	tector	PK		
OdB Bandwidth			888kF	łz						
Ref 10 c	lBm	,	*Att 20	0 dB	*RBW 30 *VBW 10 SWT 5	00 kHz	2	.440814	.50 dBm	
_0				1	N A		ndB [T BW 888 Temp 1	.000000 [T1 nd	000 kHz	A
<b>PK AXH -</b> -10			<sub>T1</sub>	J	74	T2	Temp 2	.440526 <del>[T1 nd</del> -21 .441414	<del>B]</del> .15 dBm	
20						JOET V		. 441414	JOO GIIZ	
40		$\int$					The state of the s	- 0		
<b>1</b> 500	/ N	<u> </u>					V	V Lor	www	3DB
60										
70										
-90										
Center 2.	.441 GH	Z		300	kHz/			Spa	ın 3 MHz	

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Product:	W	ireless Earpl	hone		Test	Mode:		Keep tran	smitting
Mode	Kee	ping Transn	nitting		Test Y	Voltage		DC3	.7V
Temperature		24 deg. C.	,		Hun	nidity	56% RH		
Test Result:		Pass	SS			Detector		PI	ζ
OdB Bandwidth		888kHz							
Ref 10 dE	ðm	*Att 20 (		*RBW 30 *VBW 10 SWT 5	00 kHz		1 [T1 -3	.06 dBm	
10							1] 20	.00 dB 000 kHz	
_0			1			Temp 1	[T1 nd		A
PK			MA	A		2		.67 dBm	
10				<b>ν</b> η		Temp 2	.479526 <del>[T1 nd:</del>	000 GHz	
		N					-22		
20		T1/V		\	T2	2	.480414	000 GHZ	
		W			7				
30					/	\			
40	\ \f\'					4			
-50						1	N		3DB
~~~~~~	7					~	w	mry 4	
-60								• •	
70									
80									
-90									
Center 2.4	  8 GHz		300 k	Hz/			Spa	n 3 MHz	

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Span 3 MHz

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Л/4DQPSK			_			
Product:	Wireless Earp	hone	Test Mode:	Kee	p transm	nitting
Mode	Keeping Transı	mitting	Test Voltage		I	
Temperature	24 deg. C,		Humidity		H	
Test Result:	Pass		Detector			
20dB Bandwidth	1.254MH	Z				
Ref 10 dF	3m *Att 20	*VBW 10	00 kHz ms	er 1 [T1] -0.0 2.40197600		
_0		1 A A M	BW Temp	-20.8	] 88 dBm	A
	TAV	JW Vool	Temp	2.40134600 2 [T1 ndb: -20.3	} 19 dBm	
30	\(\frac{1}{4}\)					
40						
	$M^{\vee}$		Par	V		3DB

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Center 2.402 GHz

300 kHz/

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Product:	Wireles	ss Earphone		Test Mo	ode:		Keep trans	mitting
Mode	Keeping	Transmitting		Test Vol	tage	DC3.7V		7V
Temperature	24	deg. C,		Humidity		56% RH		
Test Result:			Detect	tor		PK		
20dB Bandwidth	1.2							
Ref 10 di	∃m *Att	*	RBW 30 VBW 100 SWT 5 m	kHz		1 [T1 ] -1	.67 dBm	
10		1		В	dB [T W 1 emp 1	.2540000 [Tl nd]	в]	A
<b>РК</b> <b>ДАХН</b> 10			Month	T. A. P.	2 <del>emp 2</del>	.4403460 [ <del>Tl nd</del> l	<del>) ]                                   </del>	
20		·		72	2	-21 .4416000	.44 dBm	
30								
40				'		ALIA.		BDB
Ver Marsh	<i>f</i>				<b>Y</b>	A.	M	
60								
-70								
80 90								
Center 2.	441 GHz	300 kH	Hz/			Spa	n 3 MHz	

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Product:		Wi	ireless Ea	rphone		Test	Mode:		Keep tran	smitting
Mode		Kee	ping Tran	nsmitting		Test Voltage		DC3.7V		.7V
Temperature			24 deg.	C,		Humidity		56% RH		RH
Test Result:		Pass				Det	tector		Pl	ζ
20dB Bandwidth			1.260M	Hz						
Ref 10 d	lBm	,	*Att 2(	0 dB	*RBW 30 *VBW 10 SWT 5	00 kHz		1 [T1 -3	.17 dBm	
10				1.			ndB [T BW 1 Temp 1	1] 20 .260000 [T1 nd]		A
1 PK MAXH 10					M		2 <del>Temp 2</del>	-23 .479346 <del>[T1 nd</del> i	.28 dBm	
20		TZ	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7 *4	\mathcal{L}	W.	2	-23 .480606		
30		7								
40										
50	$\mathcal{N}$	$\vee$					N	M		3DB
-60	<i>y</i>							ha	W	
70										
80										
-90										
Center 2.	48 GH2	<u> </u>		300	kHz/			Spa	n 3 MHz	

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

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Product:	W	ireless Earp	hone		Test M	Iode:	Ke	ep transmittin
Mode	Kee	ping Transn	nitting		Test Vo	oltage		DC3.7V
Temperature		24 deg. C	,		Humidity			56% RH
Test Result:		Pass			Dete	ctor	PK	
20dB Bandwidth		1.218MHz						
Ref 10 d	Bm	*Att 20	dB	*RBW 3	00 kHz		r 1 [T1 ] -0 2.4018140	.62 dBm
10			1			BW	[1] 20 1.2180000 1 [T1 nd]	
1 PK MAXH			$\mathcal{M}$	لسم				.97 dBm
20	2	f		V	AN P	T2	-19 2.4026000	.97 dBm
30								
40								
						)		VV 3DB
60								
70								
80								
-90								

Date: 31.OCT.2024 09:37:23

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Span 3 MHz

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DPSK Product:					Keep transmitting		
Mode	Test Mo		DC3.7V				
Temperature	Keeping Tran 24 deg.	Humic		56% RH			
Test Result:	Pass		Detec	tor	PK		
20dB Bandwidth	1.218M	Hz					
Ref 10 dE	m *Att 2	* VBW	30 kHz M 100 kHz 5 ms	arker 1 [	T1 ] -1.67 dBm 814000 GHz		
10		1	В		20.00 dB 000000 MHz ndB]	A	
_ PK	0.00	My			-22.05 dBm 382000 GHz		
20	1	,	/ W 472		-21.76 dBm 600000 GHz		
30			1				
40							
-50	Ma			V)	~~~	3DB	
60							

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Center 2.441 GHz

300 kHz/

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Product:	Wireless Earphone				Test Mode:		Keep transmitting		
Mode	Keeping Transmitting				Test Voltage		DC3.7V		7V
Temperature	24 deg. C,				Humidity		56% RH		
Test Result:		Pass			Det	ector	PK		
OdB Bandwidth		1.218MH	Z						
Ref 10 dl	Bm	*Att 20	dB	*RBW 30 *VBW 10 SWT 5	00 kHz		.479808	.10 dBm 000 GHz	
						BW 1 Temp 1	.218000 [T1 nd]	000 MHz	A
-0 -10			Ž ſ	ha		2	-23	.36 dBm	
20		rom		· V	M	2		.94 dBm	
30									
40									
~50~~~	~~~					S.	~	man 3	DB
60									
70									
80									
-90									
Center 2.	48 GHz		300	kHz/			Spa	n 3 MHz	

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# 10.0 FCC ID Label

# **FCC ID: 2AZBO-N00035**

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.

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# 11.0 Photo of testing

# 11.1 Conducted test View



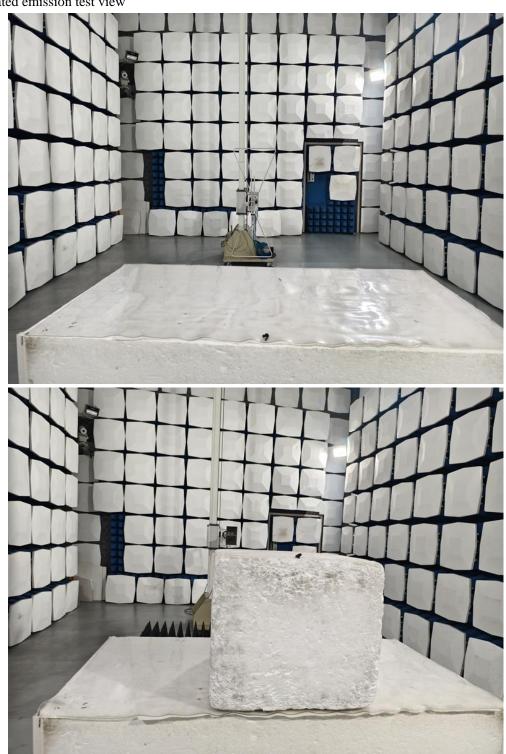
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# Radiated emission test view



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- charger base



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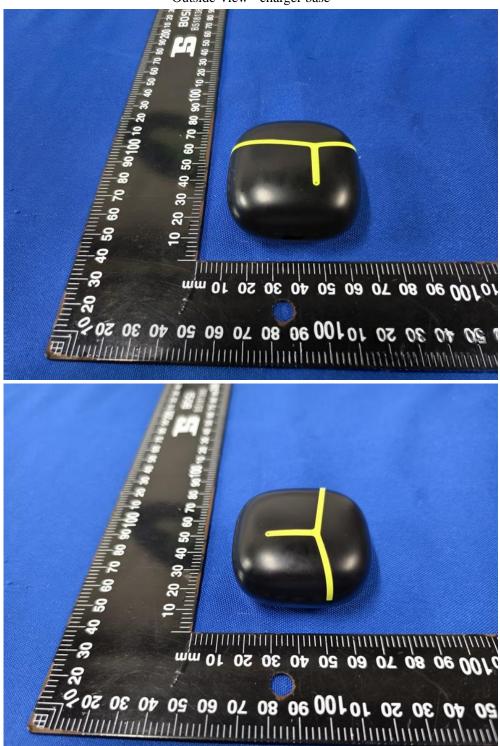
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Outside View - charger base



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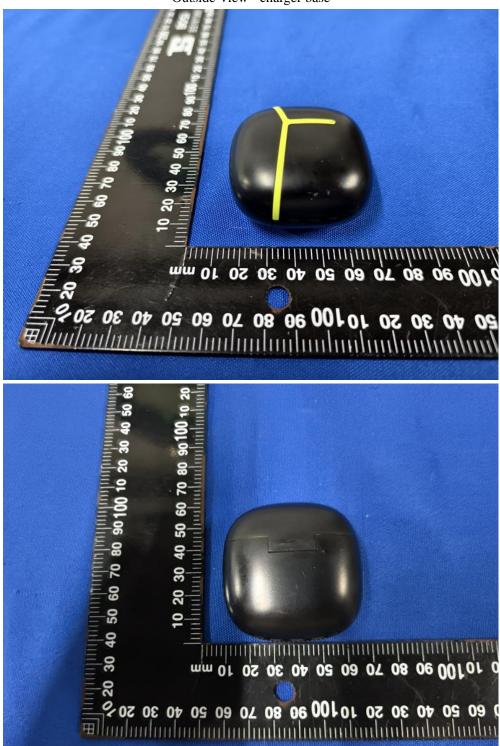
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Outside View - charger base



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Outside View - charger base



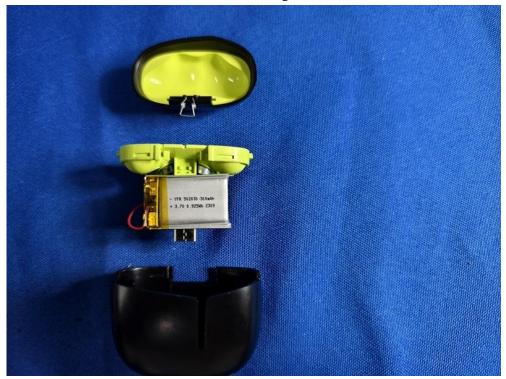
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Inside View - charger base





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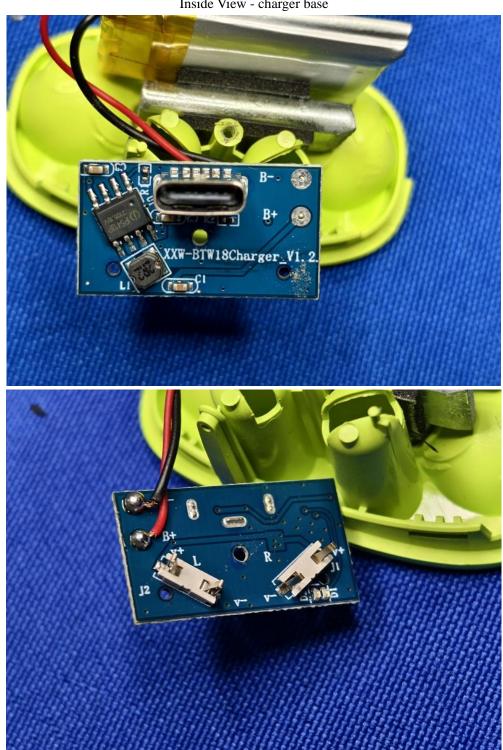
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Inside View - charger base



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adopt any other remedies which may be appropriate.

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Outside View - Left earphone



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

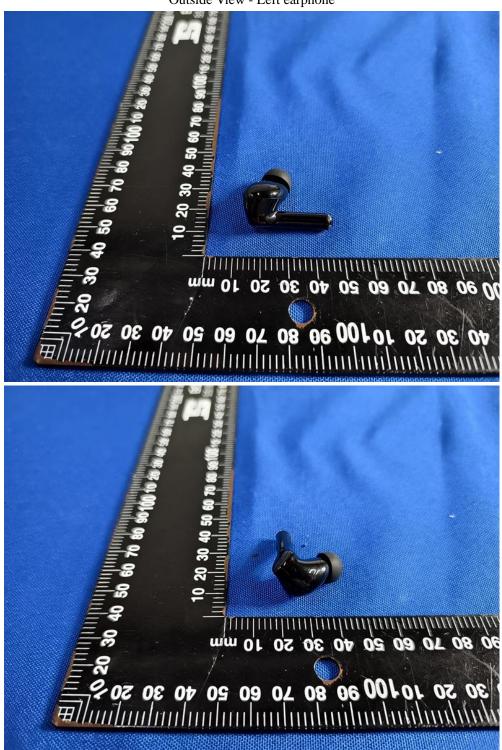
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Outside View - Left earphone



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Outside View - Left earphone



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Inside View - Left earphone



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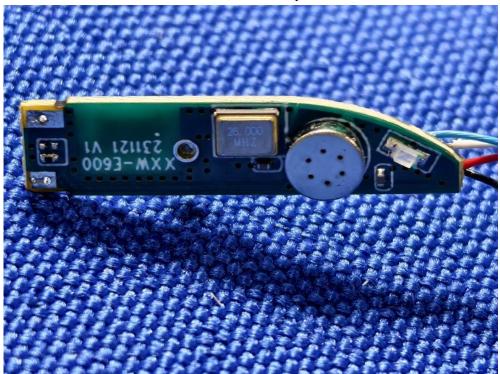
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Inside View - Left earphone



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Outside View - Right earphone



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Outside View - Right earphone



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Inside View - Right earphone





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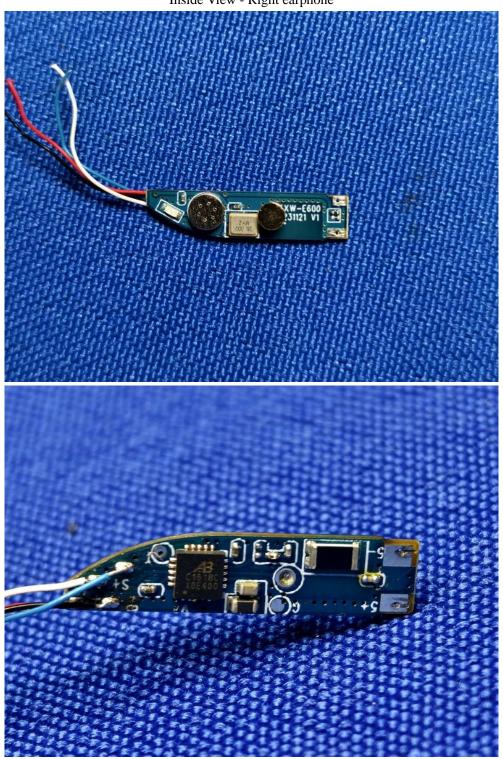
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Inside View - Right earphone



-- End of the report--

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