

Report No.:	TW2212280E
Applicant:	TECHNOFASHION INC.
Product:	Wireless Earphone
Model No.:	NTWS07
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 long

Terry Tang

Manager

Dated:

January 10, 2023

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



## **Special Statement**:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

## CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

## 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

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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<br/>Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number: 744189For 3m Anethoic 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

1	
Product:	Wireless Earphone
Manufacturer:	TECHNOFASHION INC.
Address:	127, Kingsland Ave, Clifton, NJ, USA, 07014
Trademark:	N/A
Model Number:	NTWS07
Additional Model Name	N/A
Rating:	DC5V input or Built-in DC3.7V, 30mAh Li-ion battery for earphones and DC5V
	input or Built-in DC3.7V, 250mAh Li-ion battery for charger base.
Modulation Type:	GFSK, Л/4DQPSK
Operation Frequency:	2402-2480MHz
Channel Number:	79
Channel Separation:	1MHz
Hardware Version:	V1.1
Software Version:	V150
Serial No.:	NTWS072022208
Antenna Designation	Chip antenna with gain 1.24dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

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- 1.5 Test Duration 2022-12-22 to 2023-01-10
- 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

Andy -Xing

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	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
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	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
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	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-07-15	2023-07-14
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

#### 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 according to the following 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	

#### 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

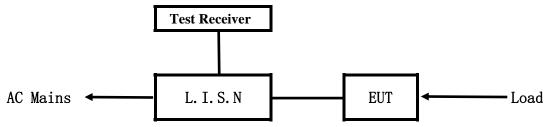
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#### 5. Power Line Conducted Emission Test

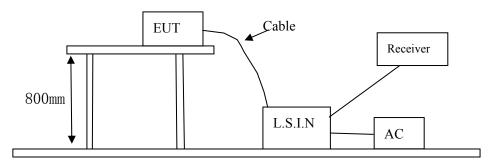
5.1 Schematics of the test



EUT: Equipment Under Test

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 500hm/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
11.	LOI

5.2

Device	Manufacturer	Model	FCC ID
Wireless Earphone	TECHNOFASHION INC.	NTWS07	2AZBO-N00020

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B. Internal Device

2.				
	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

Fraguanau	Limits (dB µ V)					
Frequency (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				
$5.00 \sim 30.00$	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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Tempe	erature: 25°C	Humidity:	65%RH	Atmospher	ic Pressure:	101 kPa		
EUT s	set Condition: (	Charging + C	ommunica	tion by BT				
Result	ts: Pass							
	refer to followi	ng diagram fo	r individua	1				
) dBuV								
					F	CC Part15 Cl	E-Class C_QP	I.
					FC	C Part15 CE-	Class C_AVe	
						- <b></b>	ų —	
J. 1						10		
MIN	M. A.	5			mm		( man ?	2
h) UV	U W N W M	M MM	in A			M	hand	
Aspen	WWW mm	A M	<u>v.</u>	han				
	new www.		~~~~~~					
.150			()	(Hz)				
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
NO.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Delector	
1	0.1890	19.68	9.76	29.44	64.08	-34.64	QP	Р
2	0.1890	0.73	9.76	10.49	54.08	-43.59	AVG	Ρ
3	0.2397	16.57	9.75	26.32	62.11	-35.79	QP	Р
4	0.2397	-1.19	9.75	8.56	52.11	-43.55	AVG	Р
5	0.6920	10.66	9.78	20.44	56.00	-35.56	QP	Р
6	0.6920	-0.89	9.78	8.89	46.00	-37.11	AVG	Р
7	3.9555	7.49	9.88	17.37	56.00	-38.63	QP	Р
8	3.9555	0.06	9.88	9.94	46.00	-36.06	AVG	Р
9	11.8139	29.42	10.24	39.66	60.00	-20.34	QP	Р
10	11.8139	20.74	10.24	30.98	50.00	-19.02	AVG	Р
11	21.3963	15.86	10.77	26.63	60.00	-33.37	QP	Р
						+		<u> </u>

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EUI	operating En	vironment						
Tem	perature: 25°C	Humidity:	65%RH	Atmospheri	c Pressure:	101 kPa		
EUI	Г set Condition:	Charging + C	Communica	tion by BT				
Res	ults: Pass							
	se refer to follow	ving diagram fo	or individual					
0.0 dBuV	/							
·o								
					F	CC Part15 Cl	E-Class C_QP	·
0						C Part15 CE.	-Class C_AVe	
0							class C_ATC	
o							η	
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- 1111.0	* ADADADA	.6					1 hours	Mar I
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	and the party	mh	m m	· ∽↑¥ ~				
10								
10 20 0.150			(M	Hz)				30.
20	Frequency (MHz)	Reading (dBuV)	(∺ Factor (dB)	Hz) Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	30. P/F
0.150		-	Factor	Level			Detector	
20 0.150 No.	(MHz)	(dBuV)	Factor (dB)	Level (dBuV)	(dBuV)	(dB)	Detector	P/F
20 0.150 No.	(MHz) 0.1773	(dBuV) 19.55	Factor (dB) 9.77	Level (dBuV) 29.32	(dBuV) 64.61	(dB) -35.29	QP	P/F P
20 0.150 No. 1 2	(MHz) 0.1773 0.1773	(dBuV) 19.55 -0.54	Factor (dB) 9.77 9.77	Level (dBuV) 29.32 9.23	(dBuV) 64.61 54.61	(dB) -35.29 -45.38	QP AVG QP	P/F P P
20 0.150 No. 1 2 3	(MHz) 0.1773 0.1773 0.2202	(dBuV) 19.55 -0.54 16.33	Factor (dB) 9.77 9.77 9.75	Level (dBuV) 29.32 9.23 26.08	(dBuV) 64.61 54.61 62.81	(dB) -35.29 -45.38 -36.73	QP AVG QP AVG	P/F P P P
20 0.150 No. 1 2 3 4	(MHz) 0.1773 0.1773 0.2202 0.2202	(dBuV) 19.55 -0.54 16.33 -1.39	Factor (dB) 9.77 9.77 9.75 9.75	Level (dBuV) 29.32 9.23 26.08 8.36	(dBuV) 64.61 54.61 62.81 52.81	(dB) -35.29 -45.38 -36.73 -44.45	QP AVG QP AVG QP	P/F P P P P
20 0.150 No. 1 2 3 4 5	(MHz) 0.1773 0.1773 0.2202 0.2202 0.6804	(dBuV) 19.55 -0.54 16.33 -1.39 10.09	Factor (dB) 9.77 9.77 9.75 9.75 9.75 9.78	Level (dBuV) 29.32 9.23 26.08 8.36 19.87	(dBuV) 64.61 54.61 62.81 52.81 56.00	(dB) -35.29 -45.38 -36.73 -44.45 -36.13	QP AVG QP AVG QP	P/F P P P P P
20 0.150 No. 1 2 3 4 5 6	(MHz) 0.1773 0.1773 0.2202 0.2202 0.6804 0.6804	(dBuV) 19.55 -0.54 16.33 -1.39 10.09 2.86	Factor (dB) 9.77 9.77 9.75 9.75 9.75 9.78 9.78	Level (dBuV) 29.32 9.23 26.08 8.36 19.87 12.64	(dBuV) 64.61 54.61 62.81 52.81 56.00 46.00	(dB) -35.29 -45.38 -36.73 -44.45 -36.13 -33.36	QP AVG QP AVG QP AVG	P/F P P P P P
20 0.150 No. 1 2 3 4 5 6 7	(MHz) 0.1773 0.1773 0.2202 0.2202 0.6804 0.6804 2.6810	(dBuV) 19.55 -0.54 16.33 -1.39 10.09 2.86 1.70	Factor (dB) 9.77 9.77 9.75 9.75 9.75 9.78 9.78 9.83	Level (dBuV) 29.32 9.23 26.08 8.36 19.87 12.64 11.53	(dBuV) 64.61 54.61 62.81 52.81 56.00 46.00 56.00	(dB) -35.29 -45.38 -36.73 -44.45 -36.13 -33.36 -44.47	QP AVG QP AVG QP AVG QP AVG	P/F P P P P P P
20 0.150 No. 1 2 3 4 5 6 7 8	(MHz) 0.1773 0.1773 0.2202 0.2202 0.6804 0.6804 2.6810 2.6810 12.0480	(dBuV) 19.55 -0.54 16.33 -1.39 10.09 2.86 1.70 -3.60	Factor (dB) 9.77 9.77 9.75 9.75 9.75 9.78 9.78 9.83 9.83	Level (dBuV) 29.32 9.23 26.08 8.36 19.87 12.64 11.53 6.23	(dBuV) 64.61 54.61 62.81 52.81 56.00 46.00 46.00	(dB) -35.29 -45.38 -36.73 -44.45 -36.13 -33.36 -44.47 -39.77	QP AVG QP AVG QP AVG QP AVG QP	P/F P P P P P P P
20 0.150 No. 1 2 3 4 5 6 7 8 9	(MHz) 0.1773 0.1773 0.2202 0.2202 0.6804 0.6804 2.6810 2.6810 12.0480	(dBuV) 19.55 -0.54 16.33 -1.39 10.09 2.86 1.70 -3.60 28.00	Factor (dB) 9.77 9.77 9.75 9.75 9.78 9.78 9.78 9.83 9.83 10.25	Level (dBuV) 29.32 9.23 26.08 8.36 19.87 12.64 11.53 6.23 38.25	(dBuV) 64.61 54.61 62.81 52.81 56.00 46.00 56.00 46.00 60.00	(dB) -35.29 -45.38 -36.73 -44.45 -36.13 -33.36 -44.47 -39.77 -21.75	QP AVG QP AVG QP AVG QP AVG QP AVG	P/F P P P P P P P P P

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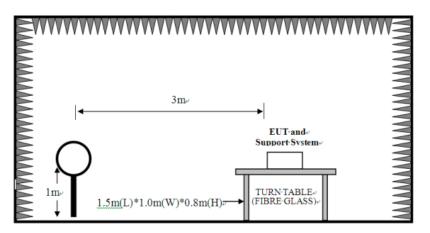


#### 6 Radiated Emission Test

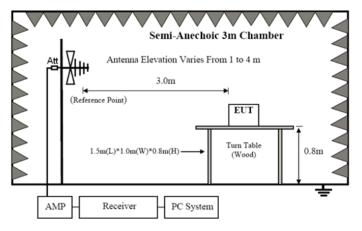
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 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 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (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



For radiated emissions from 30MHz to1GHz

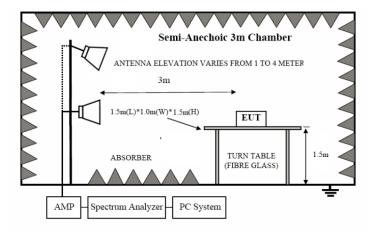


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For radiated emissions above 1GHz



- 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)					nics (3m)		
(MHz)	mV/m	dBu	V/m	uV/m	dBuV/m			
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)		

Note: 1. RF Field Strength  $(dBuV) = 20 \log RF$  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.

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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

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

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 handhold 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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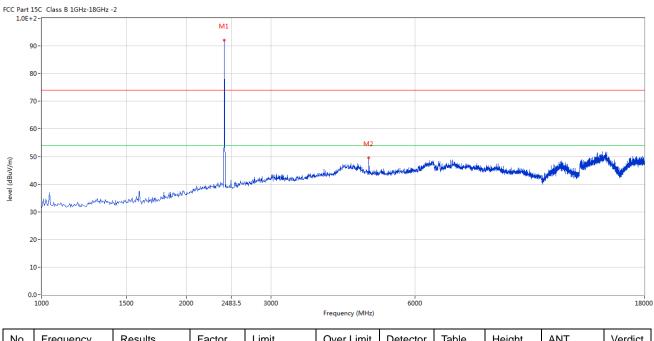
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# 6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



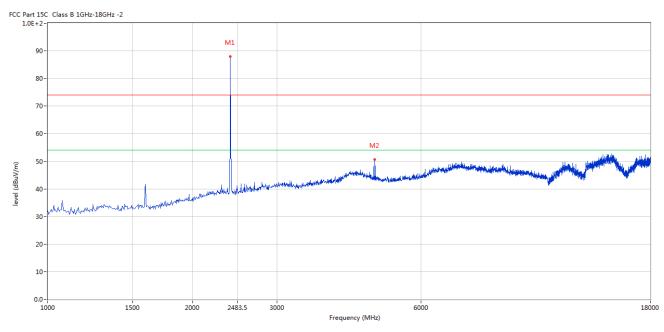
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	92.19	-3.57	114.0	-21.81	Peak	83.00	100	Horizontal	Pass
2	4802.799	49.58	3.12	74.0	-24.42	Peak	197.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	88.35	-3.57	114.0	-25.65	Peak	272.00	100	Vertical	Pass
2	4802.799	50.72	3.12	74.0	-23.28	Peak	272.00	100	Vertical	Pass

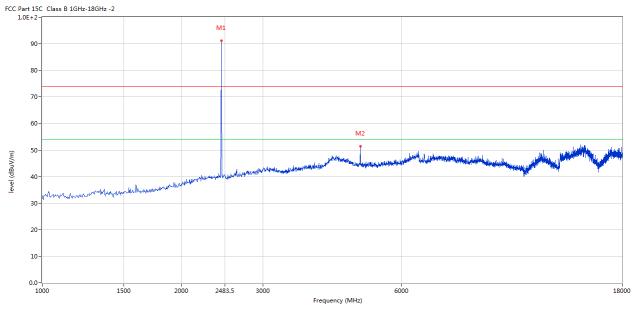
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## Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal

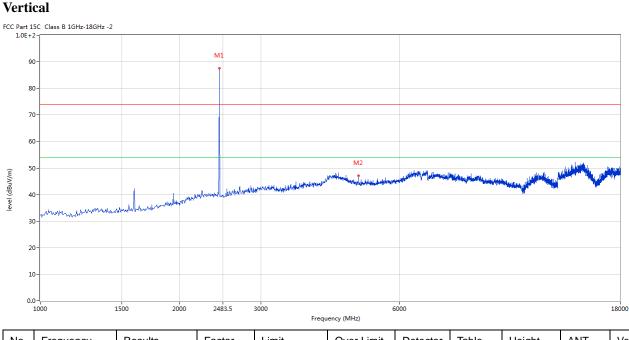


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	91.13	-3.57	114.0	-22.87	Peak	81.00	100	Horizontal	Pass
2	4879.280	51.36	3.20	74.0	-22.64	Peak	207.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	87.54	-3.57	114.0	-26.46	Peak	286.00	100	Vertical	Pass
2	4883.529	47.04	3.20	74.0	-26.96	Peak	266.00	100	Vertical	Pass

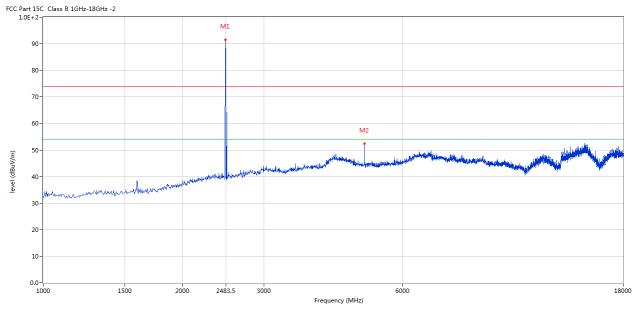
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#### Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal

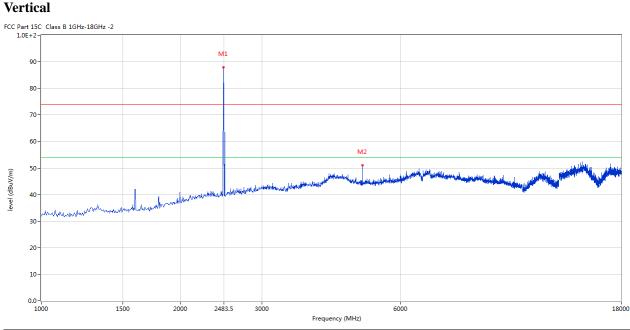


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	91.60	-3.57	114.0	-22.40	Peak	137.00	100	Horizontal	Pass
2	4960.010	52.41	3.36	74.0	-21.59	Peak	84.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	87.87	-3.57	114.0	-26.13	Peak	265.00	100	Vertical	Pass
2	4960.010	51.11	3.36	74.0	-22.89	Peak	281.00	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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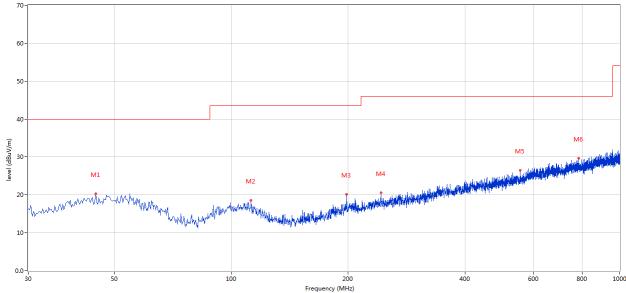
## B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	44.789	20.26	-11.42	40.0	-19.74	Peak	347.00	100	Horizontal	Pass
2	112.429	18.64	-13.91	43.5	-24.86	Peak	270.00	100	Horizontal	Pass
3	198.010	20.13	-13.49	43.5	-23.37	Peak	251.00	100	Horizontal	Pass
4	242.619	20.54	-12.18	46.0	-25.46	Peak	296.00	100	Horizontal	Pass
5	553.912	26.45	-6.20	46.0	-19.55	Peak	334.00	100	Horizontal	Pass
6	784.229	29.67	-3.08	46.0	-16.33	Peak	302.00	100	Horizontal	Pass

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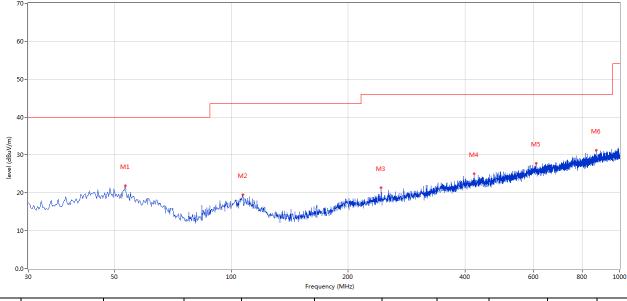
#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	53.274	21.91	-11.51	40.0	-18.09	Peak	129.00	100	Vertical	Pass
2	107.096	19.54	-13.39	43.5	-23.96	Peak	355.00	100	Vertical	Pass
3	243.104	21.32	-12.19	46.0	-24.68	Peak	50.00	100	Vertical	Pass
4	422.267	25.04	-8.08	46.0	-20.96	Peak	108.00	100	Vertical	Pass
5	609.188	27.88	-5.00	46.0	-18.12	Peak	226.00	100	Vertical	Pass
6	869.083	31.19	-2.08	46.0	-14.81	Peak	9.00	100	Vertical	Pass

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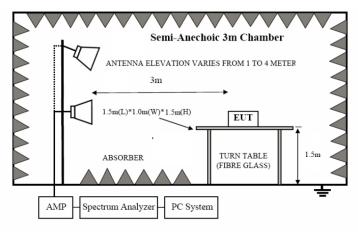


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

- 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.

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#### 7.6 Test Result

	Product: Wireless Earph			arphone	Polarity		ity	Horizontal		al		
ModeKeeping TransmithTemperature24 deg. C,			insmitting				DC3.7V					
Те	emperature			Humidity			56% RH					
Test Result:			Pass									
CC Part 1.0E	15C Class B 1GHz-18GH +2-	Iz -2										
									M1			
	90-											
	70-								/			
	60-								M2			
Ē	50-							M5 44	•			
level (dBuV/	40-	ublication of the stand of the location	will all all all all all all all all all	aler geleten in gehelen som som blev	dittan lanta na atana hada at							
eve	40	denistation statistical distance	niselekenterinteineteriteriteri	nt or a politica interaction of the second secon	efekkalda, burken al <sub>er</sub> ikatura (alika),	ary the tradition of the second s						
		ablen suita din colon de politik de la	nisisisisin di katalari katala	tertedhetter hådered andere	feld als burkey a phones had been	ary#-htmluai0htmuintu						
	30-	ubline sista in a store i top i the state state i bei das store	ninte for the stand of the stan	ntertagett harman hatet aga againt go	del de las las las las de características de las de las las de	angeritektussiskismuutu						
	30- 20- 10-	din sata in site	nini fan de	nter og et henne en hådet og en gjæddege	del des trostes a subscribes des trostes	aryoritideaddamycrio						
	20-	den sort a fra site for the self dedesor	<u></u>	nter og et henne en hådet og en eg bedelige	Frequency (MHz)	argaritekteedikterente				24		
	30	Results	Factor	Limit		Detector	Table	Height	ANT	24		
	30- 20- 10- 2350				Frequency (MHz)			Height (cm)	ANT			
	30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz) Over Limit		Table	-	ANT	24		
No.	30- 20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		2ª Verdict		
No.	30- 20- 10- 2350 Frequency (MHz) 2402.082	Results (dBuV/m) 91.91	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 17.91	Detector Peak	Table (0) 85.00	(cm) 100	Horizontal	24 Verdict N/A		
No. 1 2	30- 20- 10- 2350 Frequency (MHz) 2402.082 2400.000	Results (dBuV/m) 91.91 66.35	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Frequency (MHz) Over Limit (dB) 17.91 -7.65	Detector Peak Peak	Table (o) 85.00 85.00	(cm) 100 100	Horizontal Horizontal	24 Verdict N/A Pass		
No. 1 2**	30- 20- 10- 2350 Frequency (MHz) 2402.082 2400.000 2400.000	Results (dBuV/m) 91.91 66.35 51.75	Factor (dB) -3.57 -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Frequency (MHz) Over Limit (dB) 17.91 -7.65 -2.25	Detector Peak Peak AV	Table (o) 85.00 85.00 85.00	(cm) 100 100 100	Horizontal Horizontal Horizontal	24 Verdict N/A Pass Pass		

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Product:			Wireless Earphone			Detector		Vertical		
	Mode Keeping Transmitting					Test Voltage		DC3.7V		
Te	Temperature 24 deg. C,					Humidity		56% RH		
Те	est Result:		Pass							
1.0E+ 9 8 7 6	15C Class B 1GHz-18GHz -2- 	-2				M4	4111.11.4.1	M5 M2	MI	
level (dBuV/m	10	hieronya kwasina kwa kwa kuta k	lik da, eta kan dud ati yen geh	dal montenador in the	all again to a stand a constant	adadaha sa dada dada da da da da da da da da da d				
الالمرابع الالمرابع 1 0.	20 - 10 - 2350				Frequency (MHz)	Detector	Table	Height	ANT	241 Verdic
لارام الالمال 2 1	20 -	Results (dBuV/m)	Factor	Limit	Frequency (MHz) Over Limit (dB)	Detector	Table	Height	ANT	241 Verdic
4 3 2 1 0. No.	20- 10- 2350 Frequency	Results		Limit	Over Limit	Detector	Table (o) 283.00	Height (cm) 100	ANT	
4 3 2 1 0. No.	20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)		(0)	(cm)		Verdic
4 2 1 0. No.	0- 10- 2350 Frequency (MHz) 2402.082	Results (dBuV/m) 88.05	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB) 14.05	Peak	(o) 283.00	(cm) 100	Vertical	Verdic N/A
للللمان المالي مالي	20- 10- 2350 Frequency (MHz) 2402.082 2400.000	Results (dBuV/m) 88.05 60.49	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 14.05 -13.51	Peak Peak	(o) 283.00 277.00	(cm) 100 100	Vertical Vertical	Verdic N/A Pass
4 3 2 1 0. No.	30-       20-       10-       2350       Frequency       (MHz)       2402.082       2400.000       2400.000	Results (dBuV/m) 88.05 60.49 47.45	Factor (dB) -3.57 -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Over Limit           (dB)           14.05           -13.51           -6.55	Peak Peak AV	(o) 283.00 277.00 277.00	(cm) 100 100 100	Vertical Vertical Vertical	Verdic N/A Pass Pass

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	Product:		Wireless Earphone					у	Horizontal		
	Mode		Keeping	g Transmittin	ing Test Voltag			nge DC3.7		V	
Te	emperature	Humidity			ty	56% RH					
Τe	Temperature24 deg. C,Test Result:Pass										
CC Part 1 1.0E+	15C Class B 1GHz-18GHz +2-r	-2				•					
	90-		N	/1							
5	90-		A								
8	80-										
7	70-										
e	50 -										
- 5	50 -	1	r.		h						
BuV/m)	1.4	معملهم المعلوا		M2	Marcheller	н. П					
level (dBuV/m)			<u>,                                     </u>	M2	Martin Martin	Hall Alexandrone and	at and the solution of the	the of the state of the state			
level (dBuV/m	1.4	Helder and Million and	, 	M2		Hall History Low are	sinessfröd state för som för	trafistion for a start of the start of the	na haar a sea an	an la factoria de la compañía de la	
evel (dBuV/m 5	10- waytan tan beland and a failed	hall have a second half a factor		M2	han we want to be a second sec	an a	tin and you is de the state of the	ta afairt an daoine an tarthair a dh	neles names population allowed		
evel (dBu//m ع 2	10	Helden an	r	M2	and the second s	Heren and a start of the second s	disord (scalaristication)	tendersetender auf seiter socialitier auf	nglasen av sei stjälden så en ster		
evel (dBu//m 3 5 7	10	Helder and Market and Market		M2	han we want the	l <mark>i kan senderen se</mark>	5	in an in the second			
4 اوددوا (dBuV/m 5 2 1 0	40 - <mark>maile-standahlahlahlahlahlahlahlahlahlahlahlahlahla</mark>			M2 • 2483.	5		en oorte sektiset voets	te after son and a son a son a son a son a son a s	n glasen av set stjäldet av skännelde	250	
4 اوددوا (dBuV/m 5 2 1 0	40	Results	Factor	•		Detector	Table	1	ANT	250	
evel (מפת//۳ 3 1 0	40		Factor (dB)	2483.	5 Frequency (MHz)		Table	Height		250	
evel (מפת//۳ 3 1 0	10	Results		2483. Limit	5 Frequency (MHz) Over Limit			1			
4 (dgn//m 2 1 0 No.	40	Results (dBuV/m)	(dB)	2483. Limit (dBuV/m)	5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	250 Verdi	

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]	Product:		less Earphon	e		Detecto	or	Vertica		
	Mode		Keepii	ng Transmitti	ing		Test Volt	age	DC3.7V	
Te	mperature		24 deg. C,	Humid			ity 56% RH			
Τe	est Result:		Pass							
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2				•				
9	2 10 - 30 -		M1							
7	70-									
6	50 -		/	M2						
5				M2		n maraly all the standing the standing of the	de la contraction de	stread bet of Manager	an a shift a sin a san di an	uhovyellada
5	50 - 10 - <mark>Marcel III Marcel IIII</mark>	and desires and all for		M2	- Marilestalite	n malanda da d	de her i det an i Marcel	silve a fa faith de Menner d	open stabil a bio a construction of	upmyddada
5 4 3	50 - 10 - New Mart Mart Mart Mart Mart Mart Mart Mart			M2		undallanda		atun a kata katun dh	arishikini dan samiying	yrylla.
5 4 3	50 - 10 - <mark>Marcel III Marcel IIII</mark>	the to the international day		M2		u on de che de de de	in in the state of	du an had bed were be	an shiki ka sa	urutus
5 3 2 1	50 - 10 - New Mart Mart Mart Mart Mart Mart Mart Mart			2483.5	requency (MHz)	n an de state de la cher		dun a had destan a fla		2500
5 4 3 2 1		Results	Factor	2483.5		Detector	Table	Height	ANT	Г
5 4 3 2 1	50 - 10 -		Factor (dB)	2463.5 Fr	requency (MHz)					Г
5 3 2 1	50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results		2483.5 Fr Limit	requency (MHz) Over Limit		Table	Height		2500 Verdic

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 three 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 Chip antenna. The antenna gain is 1.24dBi Max. It fulfills the requirement of this section. Test Result: Pass

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

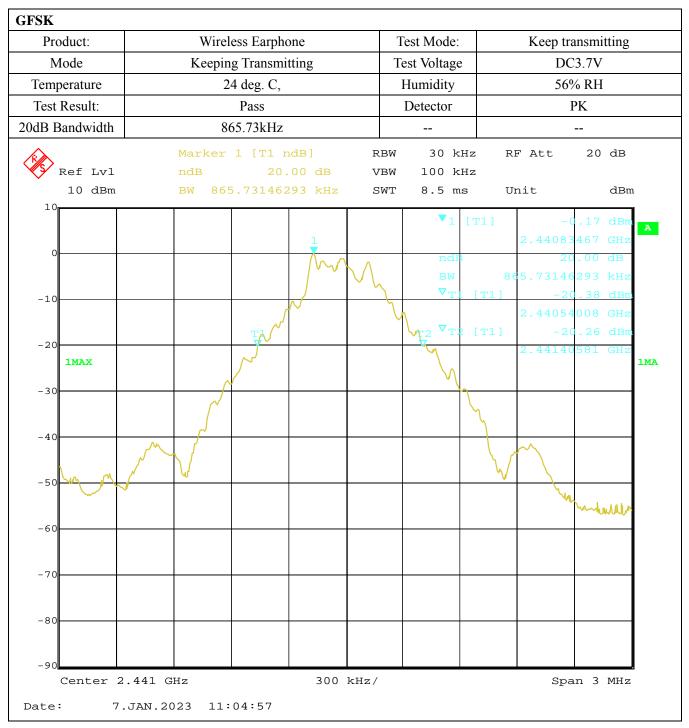
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FSK										
Product: Wireless Earphone					Test Mode:			Keep transmitting		
Mode Keeping Transmittin					Test Voltage			DC	3.7V	
Temperature	,	24 deg. C,			ł	Humidity		56%	RH	
Test Result:		Pass			]	Detector		Р	K	
DdB Bandwidth	8	365.73kHz						-	-	
Ref Lvl	Marker ndB	1 [T1 r 20.	ndB] .00 dB		BW BW	30 k 100 k		F Att	20 dB	
10 dBm	BW 865	5.731462	293 kHz	SI	νT	8.5 m	s U	nit	dBr	n
10						<b>v</b> 1	[T1]	_	0.79 dBr	2
			1					2.40183	3467 GH2	
0			1 Ann			ndB		20	0.00 dB	
				$\bigvee \int$		BW ▼⊤1		5.7314		2
-10			N			× 11	[T1]	-2	1.27 dBr 4008 GH2	
		لمي			V	$\bigvee_{\Gamma^2} \nabla_{T^2}$	[T1]		0.84 dBr	n
-20						×12		2.40240		
1MAX		$\mathcal{N}$				М				11
- 30							<u>_</u>			
-50	$\sim$							m		
Var Var								h.	han	_
-60										1
-70										
-80										
-90										
Center 2.402	GHz		300	kHz/				Spa	an 3 MHz	5

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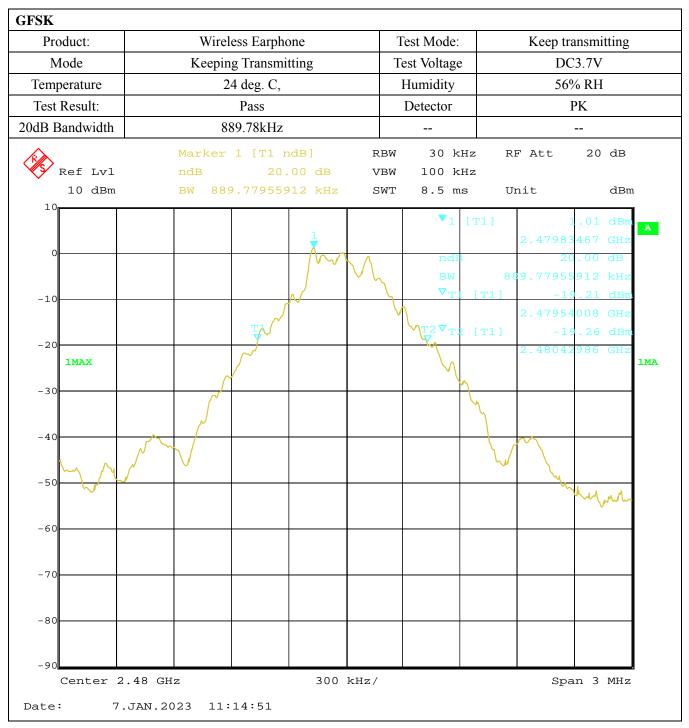




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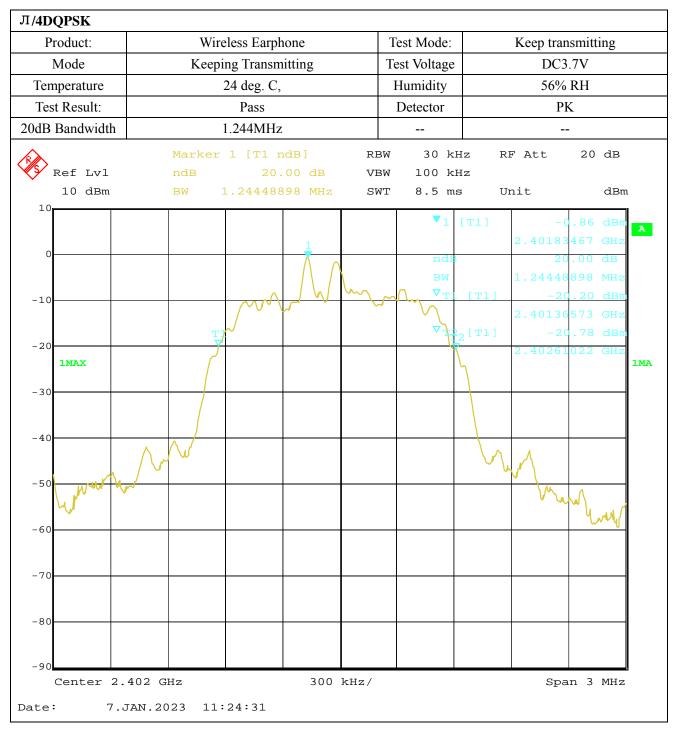




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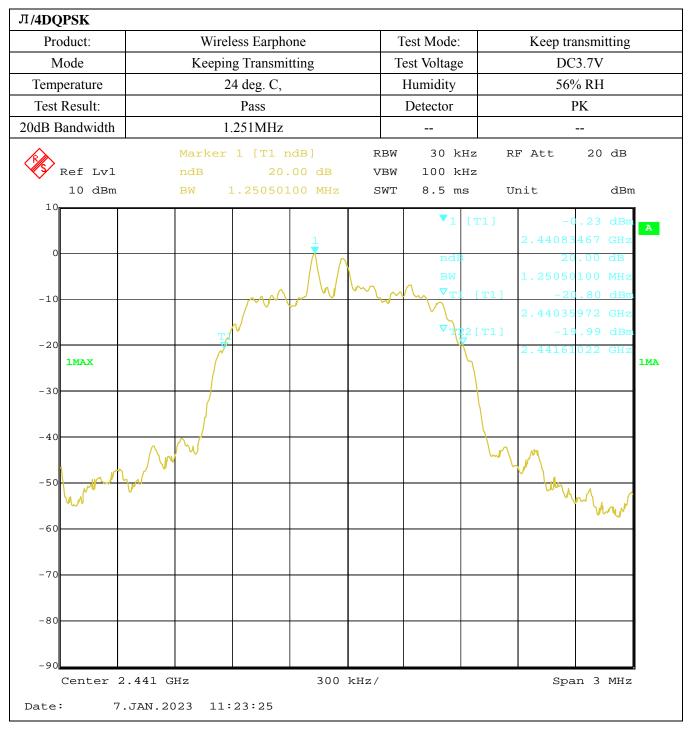




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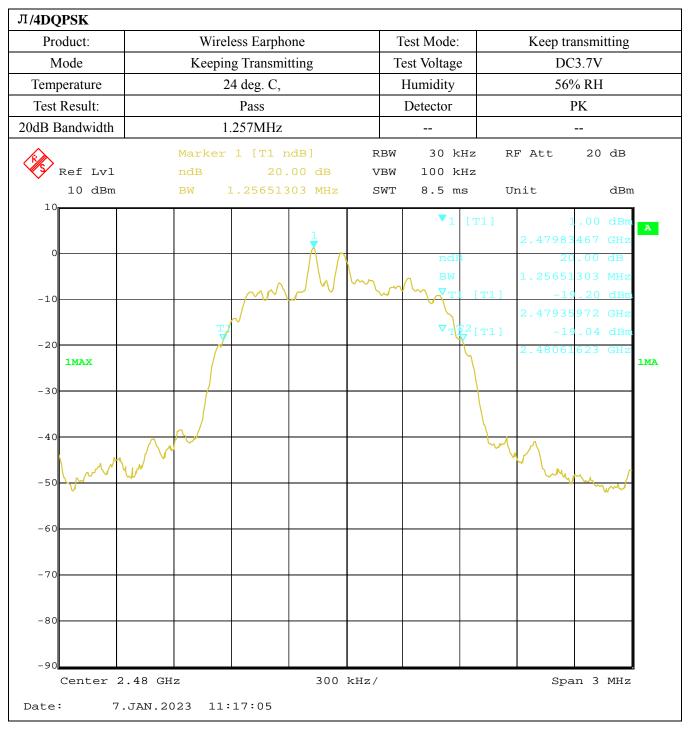




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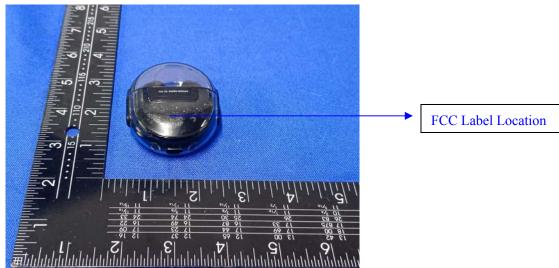
Page 35 of 52

#### 10.0 FCC ID Label

#### FCC ID: 2AZBO-N00020

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 testing

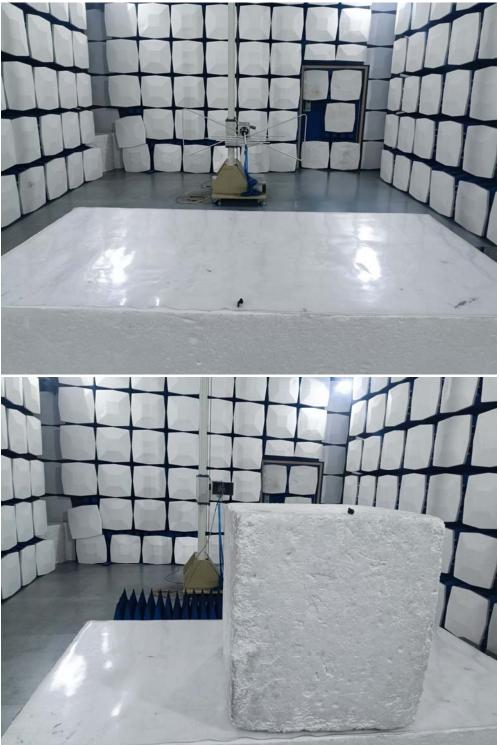
11.1 Conducted test View



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Radiated emission test view

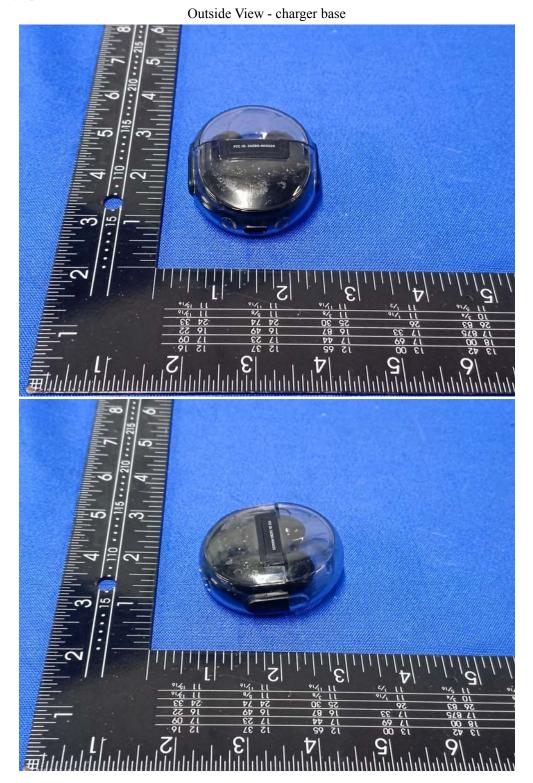


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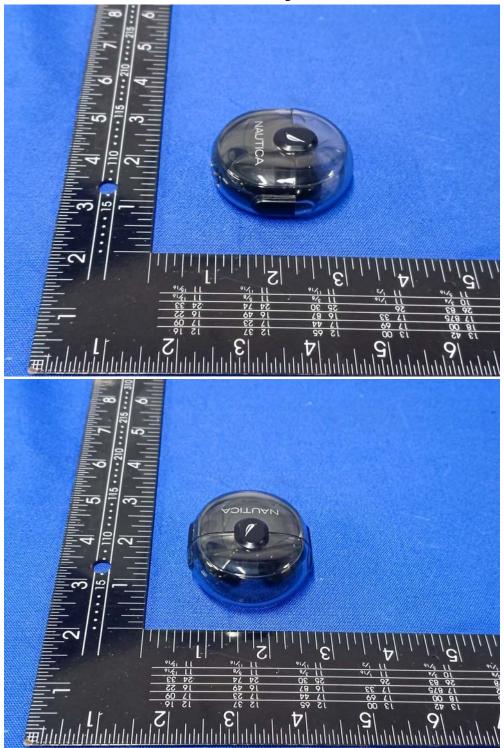
## 11.2 Photographs - EUT



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Outside View - charger base



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## Outside View - charger base



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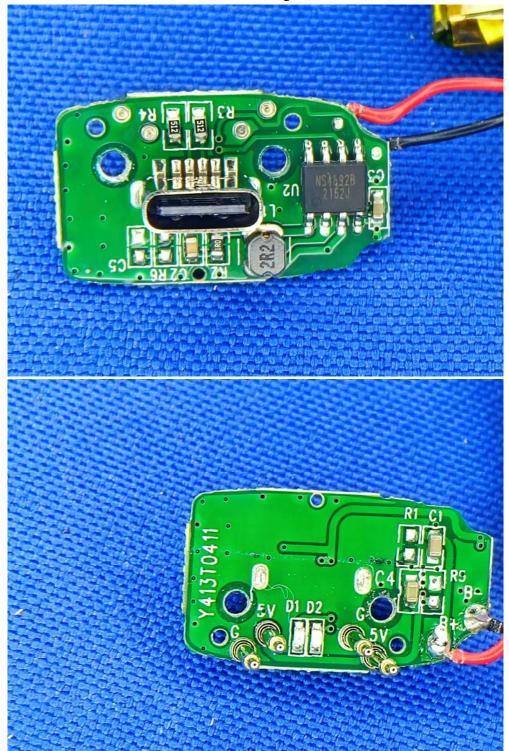
Inside View - charger base



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Inside View - charger base

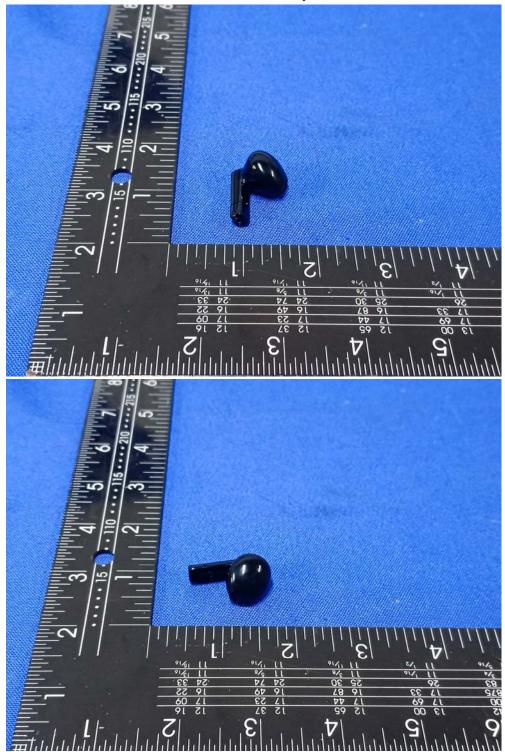


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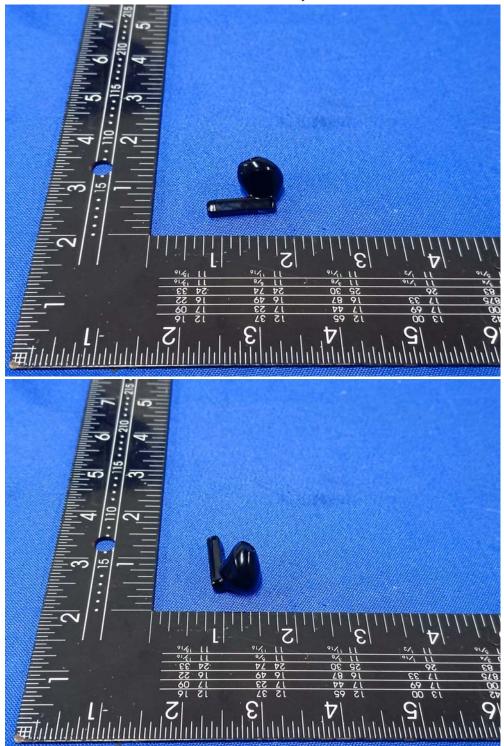
Outside View - Left earphone



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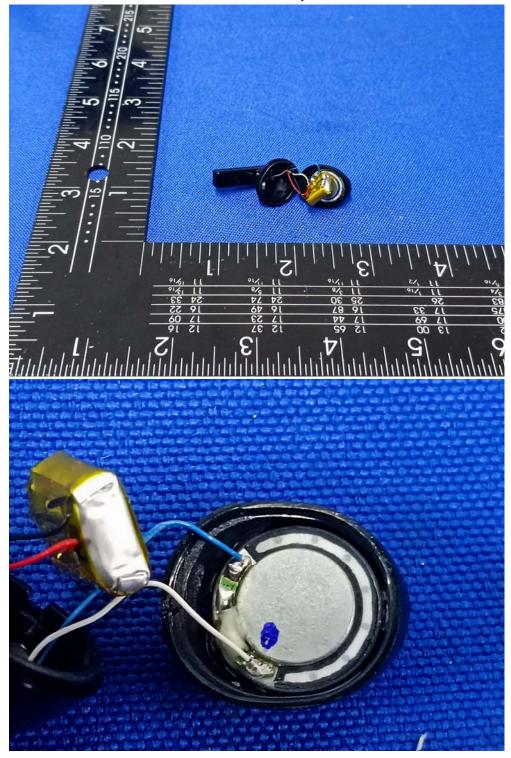
Outside View - Left earphone



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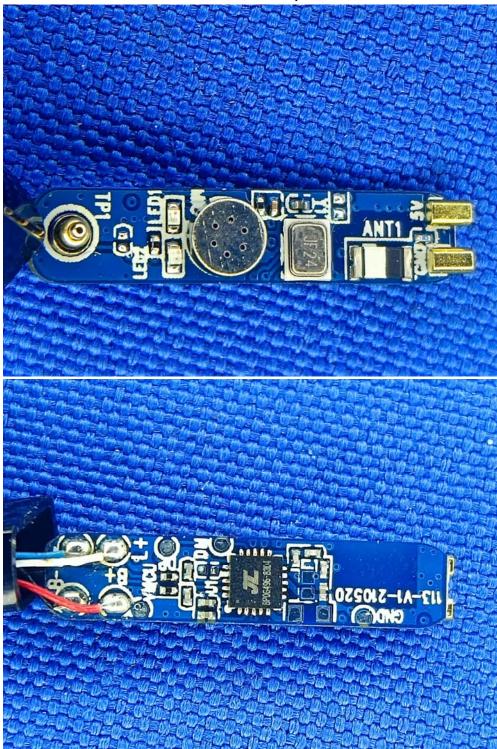
Inside View - Left earphone



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Inside View - Left earphone

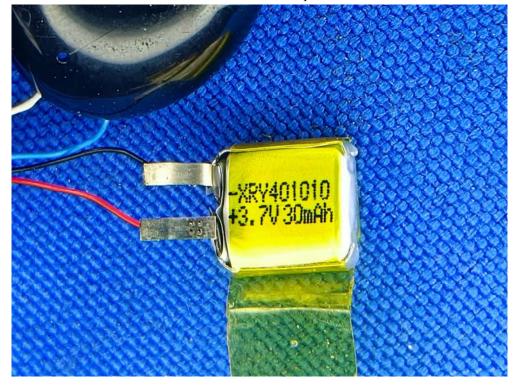


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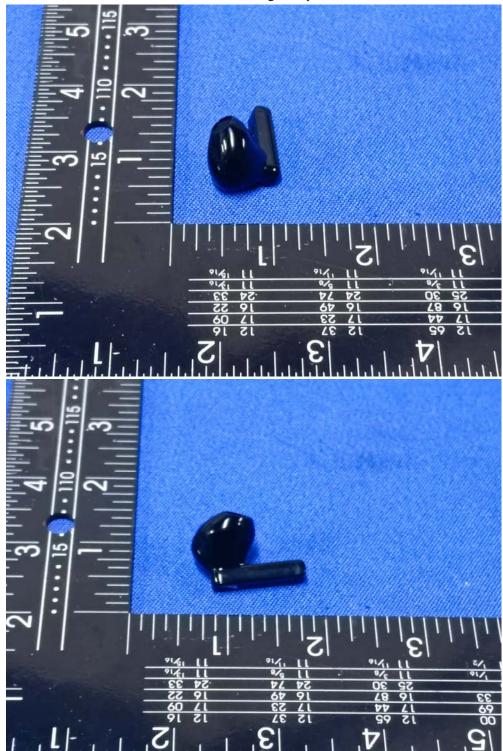
Inside View - Left earphone



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Outside View - Right earphone

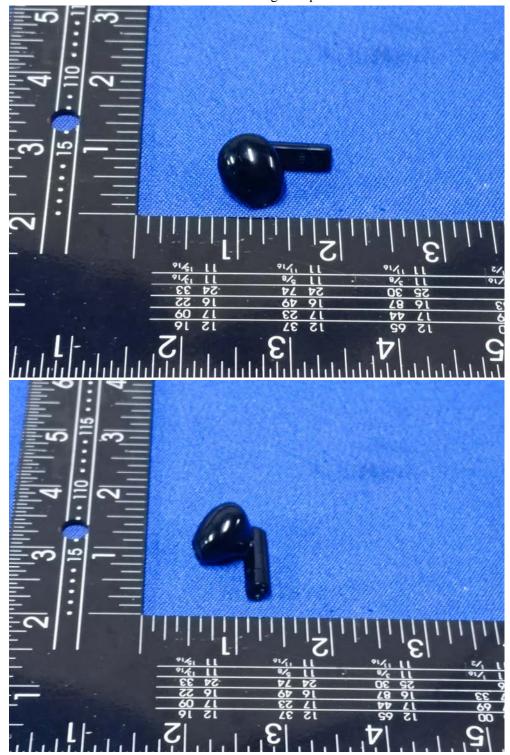


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Outside View - Right earphone

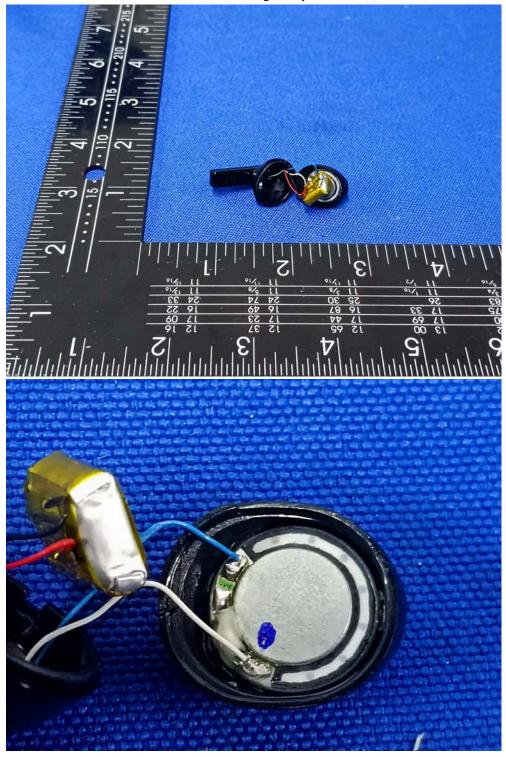


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Inside View - Right earphone

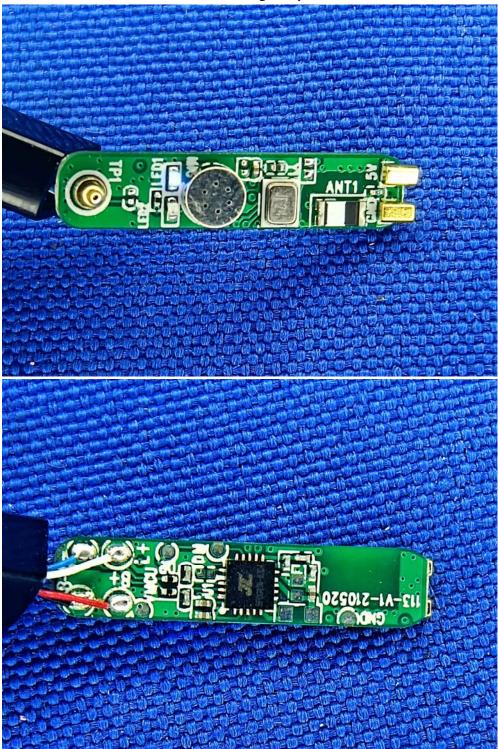


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Inside View - Right earphone



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Inside View - Right earphone



--End of the report--

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