

Report No.: TW2410129E

Applicant: TECHNOFASHION INC.

Product: Wireless Earphone

Model No.: T680, UCCWS17-X01, UCCWS17-X02, UCCWS17-X03,

UCCWS17-X25, UCCWS17-01, UCCWS17-02,

UCCWS17-06, UCCWS17-11, UCCWS17-12, UCCWS17-15,

UCCWS17-19

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

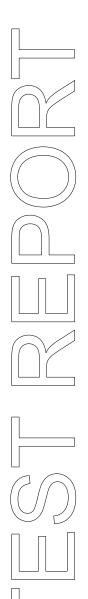
Results appearing herein relate only to the sample tested

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: T680

Additional Model Name UCCWS17-X01, UCCWS17-X02, UCCWS17-X03, UCCWS17-X25,

UCCWS17-01, UCCWS17-02, UCCWS17-06, UCCWS17-11, UCCWS17-12,

UCCWS17-15, UCCWS17-19

Rating: DC5V input or Built-in DC3.7V, 35mAh Li-ion battery for earphones and DC5V

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

Serial No.: T68020240828115B

Hardware Version: T680-V1.1
Software Version: T680-V1.1
Operation Frequency: 2402-2480MHz

Modulation Type: GFSK, 月/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		1	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	1	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 EU	Γ has been	tested a	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
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

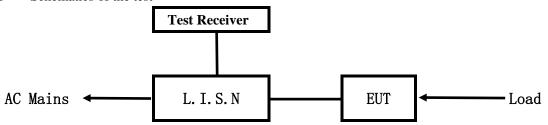
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

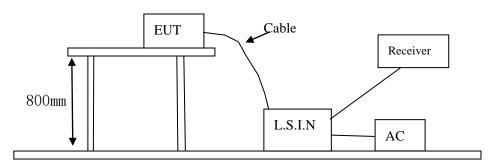


EUT: Equipment Under Test

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
		T680, UCCWS17-X01,	
		UCCWS17-X02, UCCWS17-X03,	
Wireless Earphone	TECHNOFASHION INC.	UCCWS17-X25, UCCWS17-01,	2AZBO-N00034
wheless Earphone		UCCWS17-02, UCCWS17-06,	
		UCCWS17-11, UCCWS17-12,	
		UCCWS17-15, UCCWS17-19	

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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	lB μ 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)

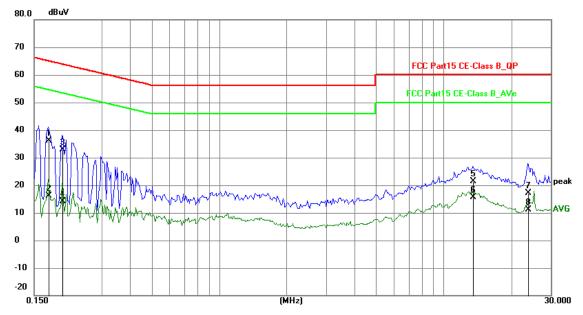
EUT Operating Environment

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	0.1734	26.34	9.77	36.11	64.80	-28.69	QP	Р
2	0.1734	6.32	9.77	16.09	54.80	-38.71	AVG	Р
3	0.2007	23.23	9.75	32.98	63.58	-30.60	QP	Р
4	0.2007	4.49	9.75	14.24	53.58	-39.34	AVG	Р
5	13.5027	11.05	10.31	21.36	60.00	-38.64	QP	Р
6	13.5027	5.21	10.31	15.52	50.00	-34.48	AVG	Р
7	23.6856	6.26	10.91	17.17	60.00	-42.83	QP	Р
8	23.6856	0.24	10.91	11.15	50.00	-38.85	AVG	Р

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

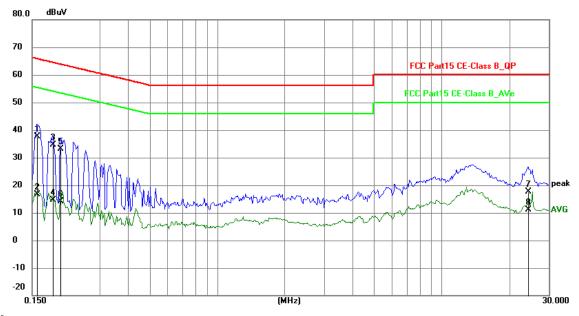
EUT Operating Environment

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	0.1578	27.91	9.78	37.69	65.58	-27.89	QP	Р
2	0.1578	6.86	9.78	16.64	55.58	-38.94	AVG	Р
3	0.1850	24.85	9.76	34.61	64.26	-29.65	QP	Р
4	0.1850	4.82	9.76	14.58	54.26	-39.68	AVG	Р
5	0.2007	23.33	9.75	33.08	63.58	-30.50	QP	Р
6	0.2007	4.30	9.75	14.05	53.58	-39.53	AVG	Р
7	24.2433	6.67	10.94	17.61	60.00	-42.39	QP	Р
8	24.2433	0.13	10.94	11.07	50.00	-38.93	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:

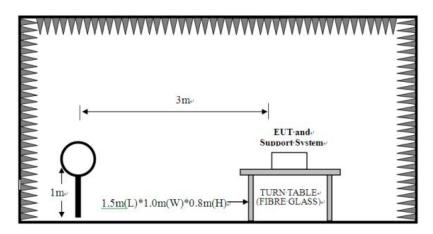
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

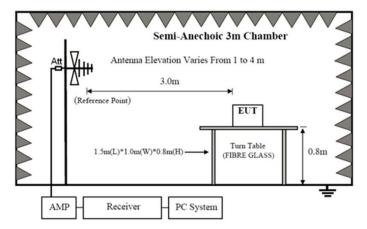


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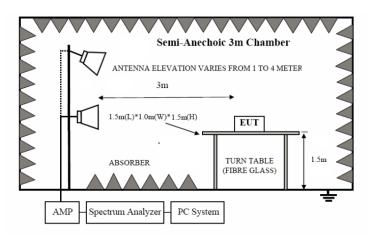
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For radiated emissions from 30MHz to1GHz



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)
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Note:

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

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

Frequency Range (MHz)	Distance (m)	Field strength (dB 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)
1.705-30	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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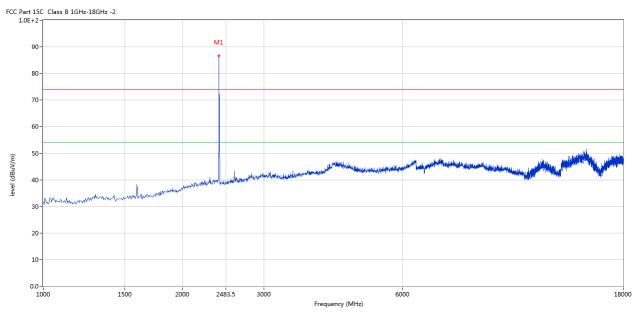


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



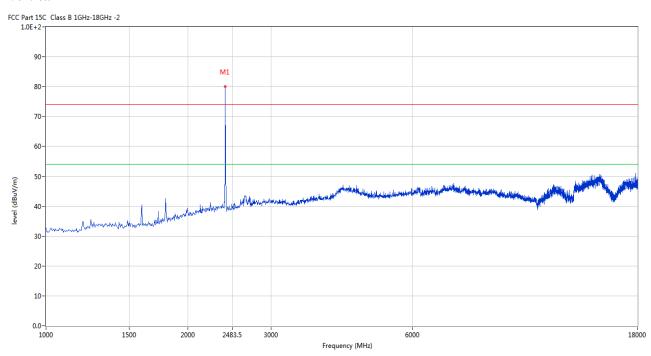
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	86.69	-3.57	114.0	-27.31	Peak	190.00	100	Horizontal	Pass

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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	80.01	-3.57	114.0	-33.99	Peak	111.00	100	Vertical	Pass

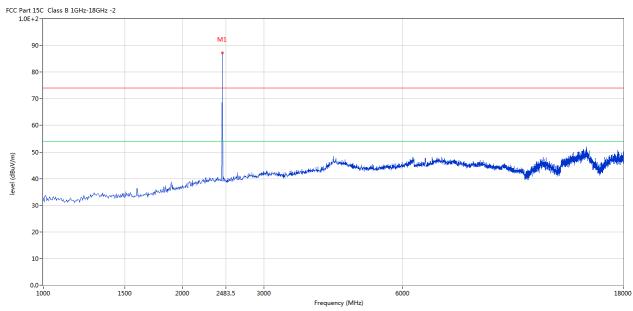
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



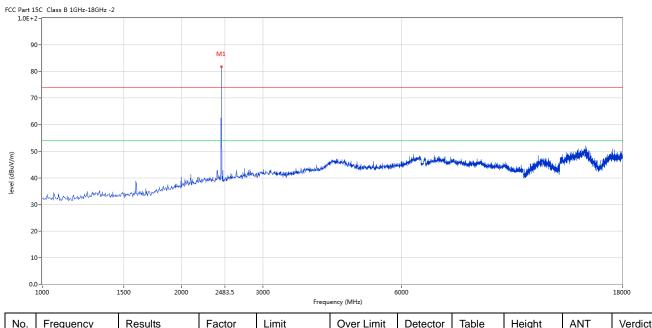
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	87.25	-3.57	114.0	-26.75	Peak	192.00	100	Horizontal	Pass

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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)		
Ī	1	2441	81.65	-3.57	114.0	-32.35	Peak	113.00	100	Vertical	Pass

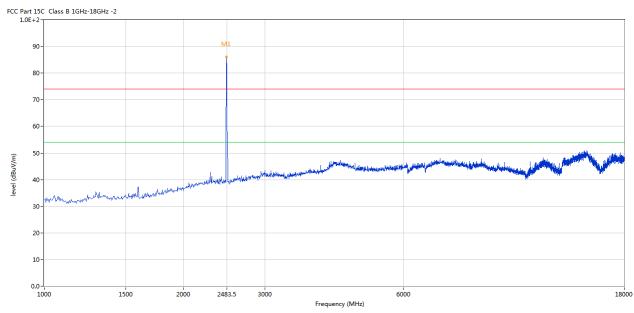
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



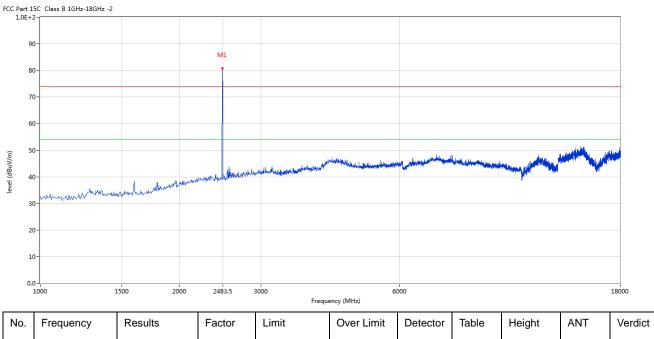
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2480	86.00	-3.57	114.0	-28.00	Peak	84.00	100	Horizontal	Pass

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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	80.84	-3.57	114.0	-33.16	Peak	63.00	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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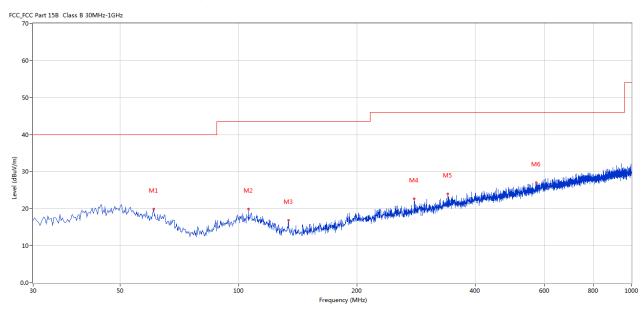


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	60.790	19.94	-13.07	40.0	20.06	Peak	193.00	100	Horizontal	Pass
2	106.126	19.87	-13.32	43.5	23.63	Peak	169.00	100	Horizontal	Pass
3	134.006	16.84	-17.02	43.5	26.66	Peak	323.00	100	Horizontal	Pass
4	279.955	22.67	-11.50	46.0	23.33	Peak	0.00	100	Horizontal	Pass
5	341.292	23.96	-9.73	46.0	22.04	Peak	223.00	100	Horizontal	Pass
6	572.822	27.08	-5.90	46.0	18.92	Peak	93.00	100	Horizontal	Pass

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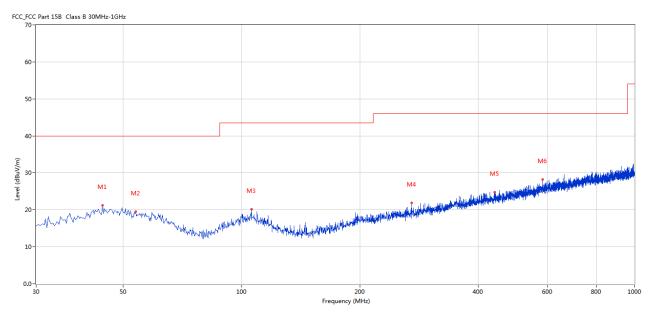


Radiated Emission In Vertical (30MHz----1000MHz)

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	44.304	21.22	-11.46	40.0	18.78	Peak	244.00	100	Vertical	Pass
2	53.759	19.53	-11.53	40.0	20.47	Peak	161.00	100	Vertical	Pass
3	105.884	20.21	-13.29	43.5	23.29	Peak	147.00	100	Vertical	Pass
4	270.985	21.87	-11.73	46.0	24.13	Peak	85.00	100	Vertical	Pass
5	440.935	24.82	-8.02	46.0	21.18	Peak	253.00	100	Vertical	Pass
6	583.732	28.22	-5.55	46.0	17.78	Peak	127.00	100	Vertical	Pass

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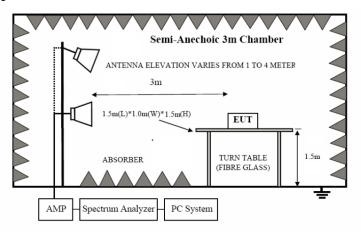


7. Band Edge

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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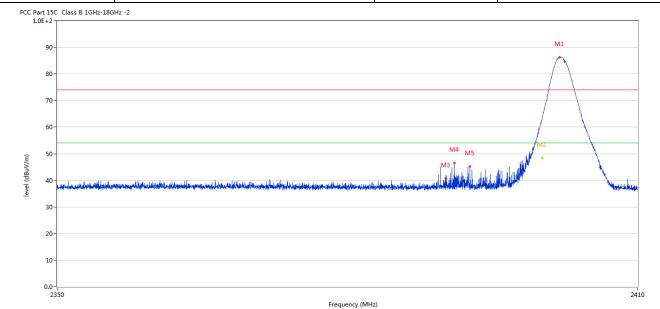
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7.6 Test Result

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	2401.812	86.25	-3.57	74.0	12.25	Peak	89.00	100	Horizontal	N/A
2	2400.012	63.46	-3.57	74.0	-10.54	Peak	109.00	100	Horizontal	Pass
2**	2400.012	48.31	-3.57	54.0	-5.69	AV	109.00	100	Horizontal	Pass
3	2390.010	40.74	-3.53	74.0	-33.26	Peak	294.00	100	Horizontal	Pass
4	2390.910	46.60	-3.53	74.0	-27.40	Peak	150.00	100	Horizontal	Pass
5	2392.499	45.25	-3.54	74.0	-28.75	Peak	294.00	100	Horizontal	Pass

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1	Product:		Wireless I	Earphone		Detect	tor		Vertical		
	Mode	F	Keeping Tr	ansmitting		Test Vol	tage		DC3.7V		
Te	mperature		24 de	g. C,		Humid	lity		56% RH		
Te	st Result:		Pas	SS							
CC Part	t 15C Class B 1GHz-18GF +2-	Hz -2									
	90-										
									M1		
	80-							/			
	70-										
	60-						M5 ,		-		
2	50-					M4	Till	# / / ·	1		
, no	40	والمراط الماليون المالون الماليون الماليون		1	1 1 1	M3		M2 •	\	d while the state of the	
e e	State the same of the state of the state of	the sale and sale made of control of control of the first of the	at the first of the state of the state of all	months and a second consistent free							
eve	30-	and the state of t	and the second seco								
level		Mily and a comment places of the part of the management of the mily and the second	annen fram framen er e en framfra e a								
level	30-	M was a common and a second and	armii (gan framan er t to gang an u								
	20-	My with grown warm place or warm and a second	and the best of the text of								
_	30-	My of the second se			Frequency (MHz)					24:	
	20-	Results	Factor	Limit	Frequency (MHz) Over Limit	Detector	Table	Height	ANT	1	
	30 - 20 - 10 - 0.0 - 2350				1	Detector	Table (o)	Height (cm)	ANT	1	
No.	30- 20- 10- 0.0- 2350 Frequency	Results	Factor	Limit	Over Limit	Detector Peak		_	ANT Vertical	1	
√o.	20- 10- 0.0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)		(o)	(cm)		Verd	
No.	20- 10- 0.0- 2350 Frequency (MHz) 2401.827	Results (dBuV/m) 79.94	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB) 5.94	Peak	(o) 142.00	(cm)	Vertical	Verd N/A Pass	
	30- 20- 10- 0.0- 2350 Frequency (MHz) 2401.827 2400.000	Results (dBuV/m) 79.94 57.21	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 5.94 -16.79	Peak Peak	(o) 142.00 112.00	(cm) 100 100	Vertical Vertical	Verd N/A Pass Pass	
	30- 20- 10- 2350 Frequency (MHz) 2401.827 2400.000 2400.000	Results (dBuV/m) 79.94 57.21 42.13	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Over Limit (dB) 5.94 -16.79 -11.87	Peak Peak AV	(o) 142.00 112.00 112.00	(cm) 100 100	Vertical Vertical Vertical	Verdi N/A Pass Pass Pass	
No.	20- 10- 2350 Frequency (MHz) 2401.827 2400.000 2400.000 2390.000	Results (dBuV/m) 79.94 57.21 42.13 42.32	Factor (dB) -3.57 -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0 74.0	Over Limit (dB) 5.94 -16.79 -11.87 -31.68	Peak Peak AV Peak	(o) 142.00 112.00 112.00 96.33	(cm) 100 100 100	Vertical Vertical Vertical	Verdi N/A Pass Pass Pass Pass	

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	Product:		Wireless	s Earphone		P	olarity		Horizo	ntal
	Mode		Keeping 7	Transmitting		Tes	t Voltage	;	DC3.	7V
Te	emperature		24 0	leg. C,		Hı	ımidity		56%]	RH
Te	est Result:		F	Pass						
C Part	15C Class B 1GHz-18GHz	: -2								
,	20		M1							
,	90 -		<i></i>	`						
8	80-									
7	70-									
(50-									
			/	M2						
	50-	محملها للمارية		1	\					
, ,	40 -	minimum standard high the ball when			Annual Religionship	ing the property of the state o	-	lage literately days replace	der Hintly on the Response to	
	30-									
:	20-									
:	10-									
0	0.0 - 2470			2483.	5					2500
		1		T	Frequency (MHz)	Т	Γ	1	T	1
				1.000.00	Over	Detector	Table	Height	ANT	
No.	Frequency	Results	Factor	Limit	Over	Detector	Table	neigni	AINT	Verdi

No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2479.815	85.90	-3.57	74.0	11.90	Peak	108.00	100	Horizontal	N/A
2	2483.500	49.25	-3.57	74.0	-24.75	Peak	139.00	100	Horizontal	Pass

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]	Produ	uct:		Wireless I	Earphone		Detector		Vertical	
	Mod	de	F	Keeping Tra	ansmitting	Te	Test Voltage		DC3.7V	
Te	mpei	rature		24 de	g. C,]	Humidity		56% RH	
Te	est Re	esult:		Pas	ss					
	rt 15C Cla	lass B 1GHz-18GH	z -2			·				
	90-									
	90-			M1						
	80-									
	70-				1					
				/						
	60-				N. I					
					M2					
BuV/m)	50-	la i	اسلامه داد		M2				al i	h
level (dBuV/m)			und about work of the first		M2	han net eithe ann an teach and and and all the either a	manda and a standard of the st			
level (dBuV/m)	50-	المراجعة واللغاصا وم	nanitrakitri orusika dintra		M2	www.nisteribus.co.chis.dvada.ed.kibi.pilk.ek	, sing ship hid play a shaper		. Letter William	walley land
level (dBuV/m)	50-	مراسالها مناهر الماراء	nadalahika arap pelebahika		M2	hanner sekerik sommer kinder kinder kilde film fra kinder kinder kilde film fra kinder kilde film fra kinder kilde film fra kinder kinder kilde film fra kinder	a jiringa dha deadanka u sa shangira	d karal dan ka Ladar da karan da ka	.b. Market Mel. and	white
level (dBuV/m)	50- 40- 30- 20-	a tabalilla a sa shi si	nativitation with the device		M2	hanna nakapika nyana kandanaka kada kika pilika kan	, mang pilangan pilangan	والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج	d distributed and	Marie Marie
level (dBuV/m)	50- 40- 30- 20-		nahidistrika orugik kabular		M2	man nekertka suuran kasika keela	, period of the free feet in the section of the sec	pikanal kecamban kalanda pelabah	فهف الانتخابة بدأر	willian de la companya de la company
level (dBuV/m)	50- 40- 30- 20-		nahidistrika ora polika de eska		M2		a, picka ja Maddanka ya sabbayi sa	phografiands about a police	والمراجعة	2500
	30- 20- 10- 2470		Results	Factor	2483.	Frequency (MHz)	etector Table	Height	ANT	2500
	30- 20- 10- 2470	quency		Factor (dB)	<u> </u>	Frequency (MHz)				2500
(m/\ng) level (\frac{(m/\ng) level (\frac{1}{2} \frac{1}{2} \f	30- 20- 10- 2470 Fred (MH	quency	Results		Limit	Frequency (MHz) Over Limit De (dB)	etector Table	Height		

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:	XX)	ireless Earphone		Test Mo	ode:	V.	ep transmitting
Mode		eping Transmittir		Test Vol		Ke	DC3.7V
	Kee		ıg				
Temperature Test Result:		24 deg. C, Pass		Humic Detec			56% RH
20dB Bandwidth		888kHz			tor		PK
200b Danuwium		ооокпи					
%			*RBW 30		Marker	1 [T1]	
Ref 10 di	Зm	*Att 20 dB	*VBW 10	ms	2	-0	.46 dBm 000 GHz
10					ndB [T	1] 20	.00 dB
		1				.000000	
-0-		1 \ \tag{\tau}	./\ A_		Temp 1	1	16 dBm
1 PK MAXH			, N.J.		2	.401526	000 GHz
-10		M			Temp 2	[T1 nd] -20	03 dBm
20		T1		T2	2	.4024140	
		~		d			
30		A ^f		J			
	<i>~</i> /				Ĺ		
40					\perp		
	~~~\\				\ /	M	3DB
-7 ⁵ 9-7	4				<u></u>	<del>\</del>	4.57 A
							-v -v
60		+ +					
70							
80							
-90							
Center 2.	402 GHz	30	00 kHz/	<u> </u>		Spa	n 3 MHz

Date. 31.001.2024 09.01.44

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Product:	W	rireless Earphon	e	Test	Mode:		Keep transm	itting
Mode	Kee	eping Transmitti	ng	Test V	Voltage		DC3.7V	7
Temperature		24 deg. C,		Hun	nidity		56% RF	I
Test Result:		Pass		Det	ector		PK	
20dB Bandwidth		888kHz						
Ref 10 di	Bm	*Att 20 dB	*RBW 30 *VBW 10 SWT 5	00 kHz	2	.440814	.50 dBm 000 GHz	
_0		1	Λ. Δ		ndB [T BW 888 Temp 1	.000000	000 kHz	•
10			~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		2 <del>Temp 2</del>	.440526		
20		T1 / 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	T2	2	. 441414	000 GHz	
30 40					Mary Control			
50						My	3DI	В
-60								
70								
80								
-90 Center 2.	441 GHZ	3(	00 kHz/			Sna	n 3 MHz	

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Span 3 MHz

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Product:	Wireless Earphone		Test	Mode:		Keep tran	smitting
Mode	Keeping Transmitting	g		Voltage		DC3	
Temperature	24 deg. C,			nidity		56%	RH
Test Result:	Pass		Det	tector		PI	K
OdB Bandwidth 888kHz							-
Ref 10 dBm	n *Att 20 dB	kHz O kHz ms		-3.05 dBm -2.479814000 GHz			
10	1			ndB [T BW 888 Temp 1	.0000000	8]	A
10	M	1/4		2 <del>Temp 2</del>	.4795260 <del>[T1 nd]</del>	<del>)</del> ]	
20	TIV	1	T2 <b>V</b> 7_	2	-22 .4804140	.80 dBm	
30	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		V	4			
40				1			
50				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	W.	n M n	3DB
-60					-	~~ \( \frac{1}{2} \)	
70							
80							
-90							

Date: 31.OCT.2024 09:16:01

Center 2.48 GHz

300 kHz/

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Product:		Wi	reless Ea	rphone		Test N	Iode:	Ke	ep transm	nitting
Mode			ping Tran			Test Vo	oltage		DC3.7\	
Temperature			24 deg.			Hum			56% RI	I
Test Result:			Pass			Dete			PK	
20dB Bandwidth			1.260M	Hz			-			
Ref 10 d	Bm	4	*Att 20	) dB	*RBW 3	00 kHz		r 1 [T1 -0 2.401970	.66 dBm	
10								T1] 20		
0				1				1.260000 1 [T1 nd		A
PK			<b>^</b>	$\mathcal{L}$	M	٦.			.92 dBm	
-10			Laga.	J-4	- Ores	W	Temp	<del>2 [T1 nd:</del> -21	<del>)</del> .11 dBm	
20		T.J	<del>/</del>			Ţ	T2	2.402606	000 GHz	
30										•
40	$\mathcal{N}$	$\checkmark$					M	man 1		3DB
T. V								- War	A Co	
60										
70										
80										
-90										

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Product:	V	/ireless Earphon	e	Test Mode:	Keep tr	ansmitting
Mode	Ke	eping Transmitti	ing	Test Voltage	e DO	C3.7V
Temperature		24 deg. C,		Humidity	56	% RH
Гest Result:		Pass		Detector		PK
dB Bandwidth		1.254MHz				
Ref 10 d	Bm	*Att 20 dB	*RBW 30 *VBW 10 SWT 5	00 kHz ms	-1.66 dB 2.440976000 GH	z
_0			1	ndB BW Temp		Z
<b>H</b>			$\sqrt{\mathcal{M}}$	Victoria Temp	-21.90 dB 2.440346000 GH 2 [T1 ndb]	
20	T			72	-21.48 dB 2.441600000 GH	
30						_
40						_
-50-	$M^{\vee}$			V	Wax - X	3DB
<b>-</b> -60					a Mar C	
70						_
80						_
-90	441 GHz		00 kHz/		Span 3 MF	

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Product:	V	/ireless Earpl	hone		Test	Mode:		Keep tran	smitting
Mode	Ke	eping Transn	nitting		Test '	Voltage		DC3	.7V
Temperature		24 deg. C,	,		Hur	nidity		56%	RH
Test Result:		Pass			Det	tector		PI	X
20dB Bandwidth		1.260MHz	Z						
Ref 10 di	Bm	*RBW 30 *VBW 10 m *Att 20 dB SWT 5					1 [T1 -3	.16 dBm	
10						ndB [T		.00 dB	
0			1			BW 1 Temp 1	.260000 [Tl nd:	000 MHz	A
PK			л X				-23	.31 dBm	
-10				$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $		2 Temp 2	.479346	000 GHz	
		M	W	/w/	$\mathcal{N}_{\mathcal{M}}$		-23	.56 dBm	
20	T	<del>/</del>			<u></u>	2 <del>[2</del>	.480606	000 GHz	
30	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				<u>,                                     </u>	K _q			
30						ļ			
40	$\Lambda$						~		3DB
-50	/ V					V	Jana Jana	, req	
V. V							- Carol	w w	
60									
70									
80									
- 00									
-90									
Center 2.	48 GHz		300	kHz/			Spa	n 3 MHz	

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Span 3 MHz

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Product:	Wirel	less Earphone		Test M	lode:	Ke	ep transm	itting
Mode		g Transmitting		Test Vo	ltage		DC3.7V	7
Temperature		4 deg. C,		Humi	dity		56% RF	I
Test Result:		Pass		Detec	ctor		PK	
20dB Bandwidth	1	.218MHz						
Ref 10 d	3m <b>∗</b> A	tt 20 dB	*VBW 10	*VBW 100 kHz			] .63 dBm 000 GHz	
10		1			ndB [T BW 1 Temp 1	.2180000		A
PK			my a				.22 dBm	
-20	<b>3</b>	J. V.	V	M		-20 .4026000	000 GHz	
					1			
-40								
	Mrs				<u> </u>	_m	ww	3DB
-30								
60							<b></b>	

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Center 2.402 GHz

300 kHz/

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Product:	roduct: Wireless Earphone					Test Mode:		Keep transmitting	
Mode Keeping Transmitting			Test Voltage		DC3.7V				
Temperature 24 deg. C,				Humidity		56% RH			
Test Result: Pass				Detector			PK		
0dB Bandwidth	dB Bandwidth 1.218MHz								
Ref 10 d	Bm	*Att 20	0 dB	*RBW 30 *VBW 10 SWT 5	00 kHz		1 [T1 -1.440808	.63 dBm 000 GHz	
			1			BW 1	.218000	000 MHz	
-0 -10			\ f	m,		Temp 1	[T1 nd: -21 .440382	.96 dBm	
20		T. C.	<del>•</del>	V	Jan J	12 2	-21 .441600	.59 dBm	
30		, v			,				
-40	~~					1	<u> </u>		
-50	-\footnote{\chi_0}							3DB	
60									
70									
80									
-90									
Center 2.	441 GHz		300	kHz/			Spa	n 3 MHz	

Date: 31.OCT.2024 09:44:22

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Product:	Wireless F	Earphone	Test Mode:	Keep transmitting	
Mode Keeping Transmitting			Test Voltage	DC3.7V	
Temperature 24 deg. C,			Humidity	56% RH	
Test Result: Pass			Detector	PK	
20dB Bandwidth	1.2181	MHz			
Ref 10 d	Bm *Att		00 kHz ms 2	-1 [T1 ] -3.08 dBm -479814000 GHz	
_0		1	BW 1	.218000000 MHz	
1 PK MAXH 10	~~	A Amore	Temp 2	.479382000 GHz	
20		V	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-22.83 dBm	
30					
-40	~~~		4	3DB	
C-your -	, V +				
60					
70					
80 90					
Center 2.	48 GHz	300 kHz/		Span 3 MHz	

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## 10.0 FCC ID Label

## **FCC ID: 2AZBO-N00034**

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 testing11.1 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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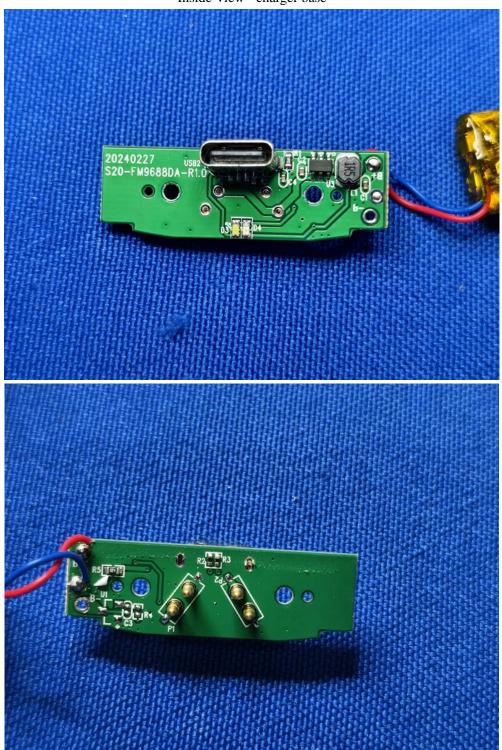
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Inside View - charger base



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Outside View - Left earphone



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Outside View - Left earphone



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Outside View - Left earphone



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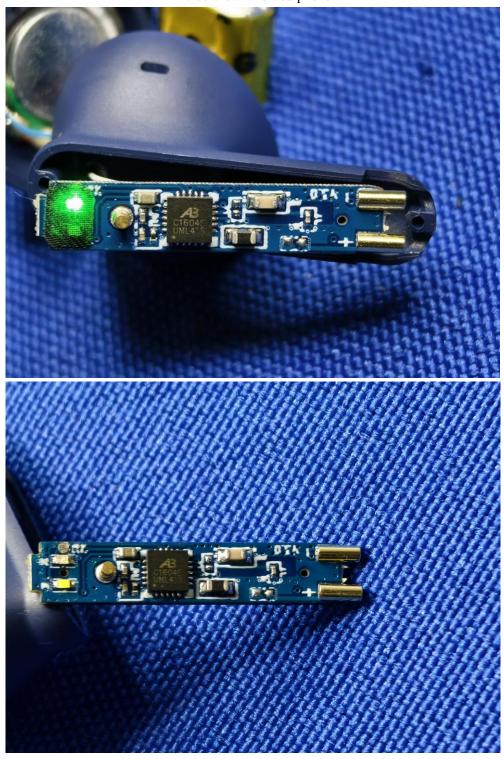
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Inside View - Left earphone



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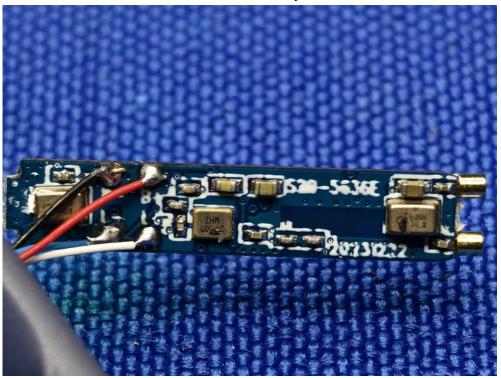
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Inside View - Left earphone



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Outside View - Right earphone





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Outside View - Right earphone



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Outside View - Right earphone



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Inside View - Right earphone



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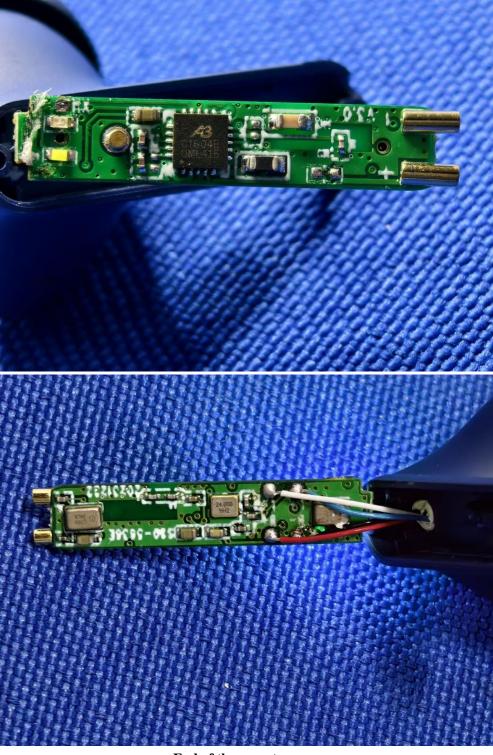
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Inside View - Right earphone



-- End of the report--

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