

Applicant: Maxell Corporation of America

Product: TWS Earphones

Model No.: WKA-191A

Trademark: Maxell

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

withdrawal at

Manager

Dated: March 29, 2025

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

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

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## **Special Statement:**

## FCC-Registration No.: 744189

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

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

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

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

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

CAB identifier: CN0033

Date: 2025-03-29



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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: Maxell Corporation of America

Address: 3 Garret Mountain Plaza, 3rd Floor, Suite 300, Woodland Park, NJ 07424 USA

## 1.3 Description of EUT

Product: TWS Earphones

Manufacturer: Genesis Worldwide Enterprises

Address: 2370 W State Route 89A, Suite 11, Box 252, Sedona, AZ 86336 USA

Trademark: Maxell Model Number: WKA-191A

Additional Model N/A

Name

Rating: Input: DC3.7V

Battery: DC3.7V, 30mAh Li-ion battery for earphones and Built-in DC3.7V, 250mAh Li-ion

battery for charger base.

Serial No.: GS-1402504010001 Hardware Version: ZT-J206-ENC-ANC

Software Version: ZTTX-J206-V136\_AC7006F8\_WKA-191A\_B8EB4EBD\_240911\_26E6-17861787

Operation Frequency: 2402-2480MHz

Modulation Type: GFSK, Л/4DQPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation Chip antenna with gain 2.67dBi maximum (Get from the antenna specification)

## 1.4 Submitted Sample: 3 Samples

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#### 1.5 Test Duration

2025-03-21 to 2025-03-29

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

## 2.2 Automation Test Software

#### For Conducted Emission Test

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

## For Radiated Emissions

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

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#### 3.0 Technical Details

## 3.1 Summary of test results

The 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

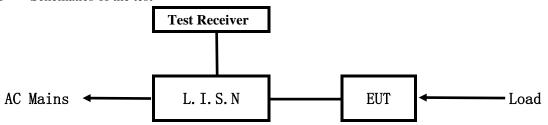
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5.0 Power Line Conducted Emission Test

## 5.1 Schematics of the test

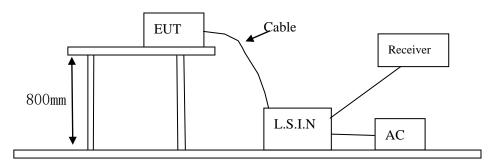


**EUT: Equipment Under Test** 

## 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.

## A. EUT

Device	Manufacturer	Model	FCC ID	
TWC Country	Genesis Worldwide	WKA-191A	WKA-191A	
TWS Earphones	Enterprises	W KA-191A		

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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## C. Peripherals

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

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

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

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

Notes:

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

## 5.6 Test Results:

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

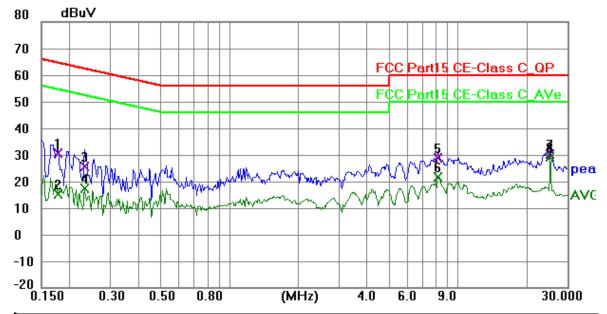
## **EUT Operating Environment**

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

EUT set Condition: Charging and Communication by BT

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1773	20.31	10.33	30.64	64.61	-33.97	QP	Р
2	0.1773	4.92	10.33	15.25	54.61	-39.36	AVG	Р
3	0.2319	15.27	10.33	25.60	62.38	-36.78	QP	П
4	0.2319	7.01	10.33	17.34	52.38	-35.04	AVG	Р
5	8.1168	15.62	13.20	28.82	60.00	-31.18	QP	Р
6	8.1168	8.54	13.20	21.74	50.00	-28.26	AVG	П
7	25.2261	14.93	15.30	30.23	60.00	-29.77	QP	Р
8	25.2261	13.65	15.30	28.95	50.00	-21.05	AVG	Р

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

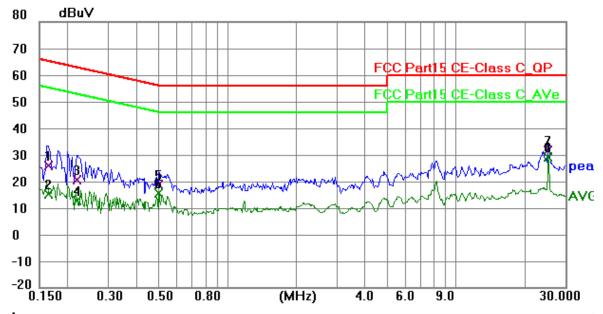
## **EUT Operating Environment**

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

EUT set Condition: Charging and Communication by BT

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	15.46	10.33	25.79	65.18	-39.39	QP	Р
2	0.1655	4.98	10.33	15.31	55.18	-39.87	AVG	Р
3	0.2202	10.03	10.33	20.36	62.81	-42.45	QP	J
4	0.2202	2.23	10.33	12.56	52.81	-40.25	AVG	Р
5	0.5010	8.34	10.40	18.74	56.00	-37.26	QP	J
6	0.5010	5.04	10.40	15.44	46.00	-30.56	AVG	Р
7	25.2300	16.27	15.29	31.56	60.00	-28.44	QP	Р
8	25.2300	13.82	15.29	29.11	50.00	-20.89	AVG	Р

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#### **6** Radiated Emission Test

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

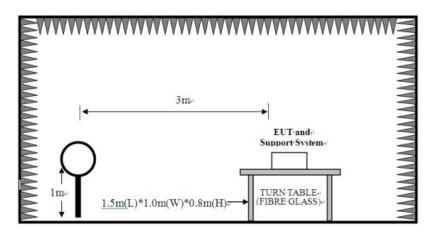
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

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

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

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

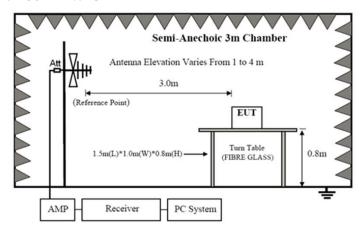
For radiated emissions from 9kHz to 30MHz



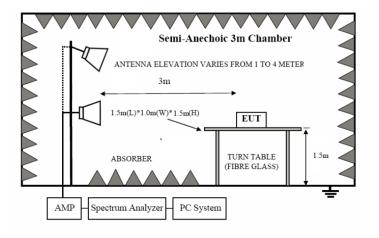
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



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

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

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

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

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

Note:

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

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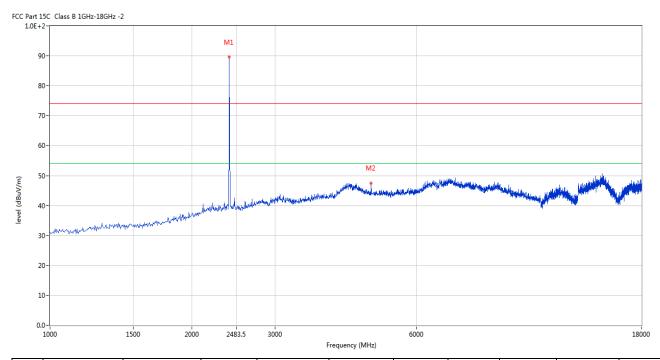


## 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

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

## Horizontal



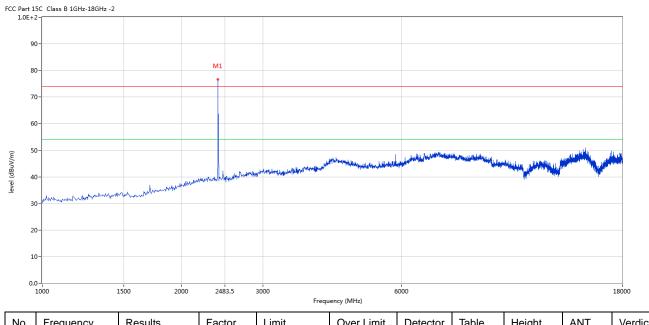
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	89.57	-3.57	114.0	-24.43	Peak	150.00	100	Horizontal	Pass
2	4802.799	47.52	3.12	74.0	-26.48	Peak	176.00	100	Horizontal	Pass

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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	76.71	-3.57	114.0	-37.29	Peak	155.00	100	Vertical	Pass

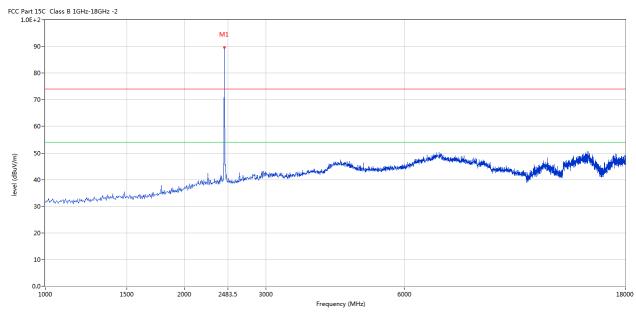
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



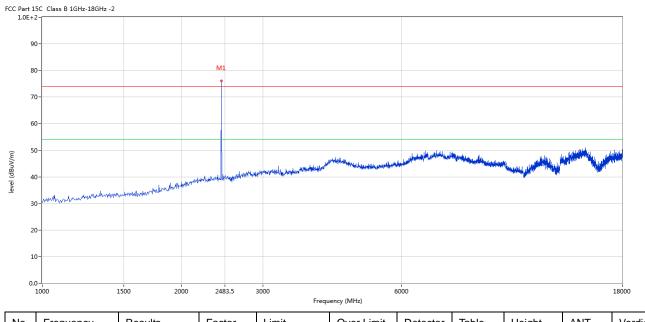
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	89.64	-3.57	114.0	-24.36	Peak	156.00	100	Horizontal	Pass

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## Vertical



1	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	l	2441	76.00	-3.57	114.0	-38.00	Peak	242.00	100	Vertical	Pass

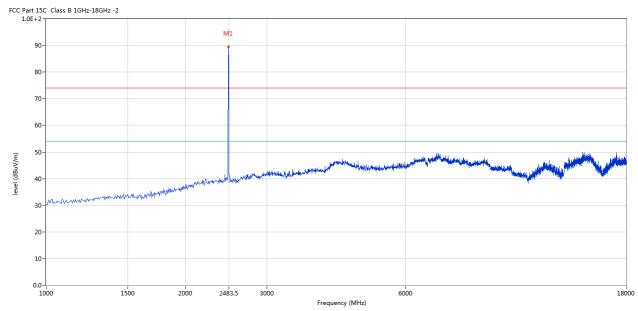
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Please refer to the following test plots for details: High Channel-2480MHz

#### **Horizontal**



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	89.42	-3.57	114.0	-24.58	Peak	145.00	100	Horizontal	Pass

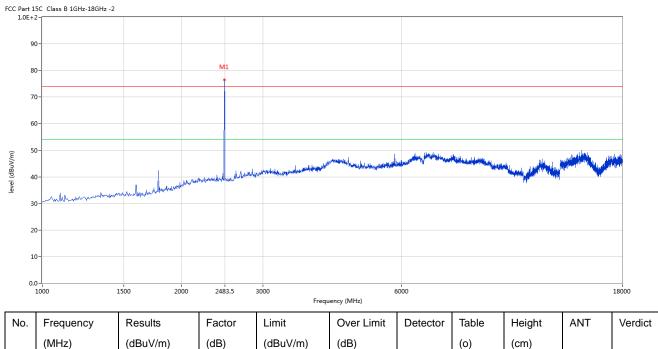
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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	76.54	-3.57	114.0	-37.46	Peak	222.00	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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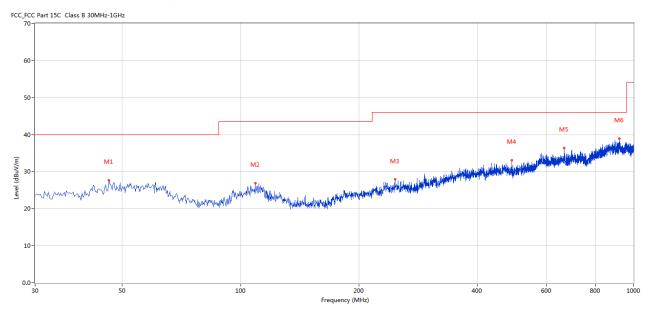


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	46.243	27.73	-5.97	40.0	12.27	Peak	133.00	100	Horizontal	Pass
2	109.035	26.92	-5.98	43.5	16.58	Peak	89.00	100	Horizontal	Pass
3	247.468	27.88	-5.22	46.0	18.12	Peak	189.00	100	Horizontal	Pass
4	489.665	33.04	-1.16	46.0	12.96	Peak	110.00	100	Horizontal	Pass
5	666.888	36.34	1.92	46.0	9.66	Peak	291.00	100	Horizontal	Pass
6	919.510	38.85	5.50	46.0	7.15	Peak	320.00	100	Horizontal	Pass

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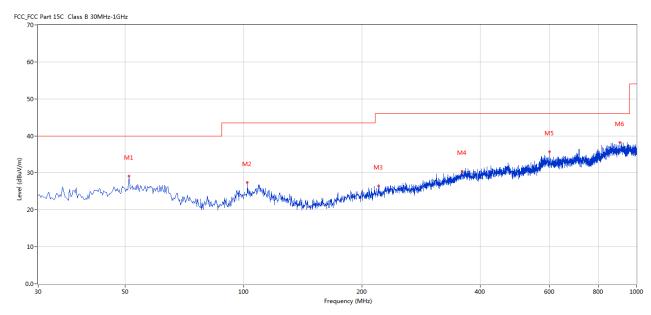


## Radiated Emission In Vertical (30MHz----1000MHz)

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	51.092	29.16	-4.99	40.0	10.84	Peak	3.00	100	Vertical	Pass
2	102.247	27.48	-6.86	43.5	16.02	Peak	276.00	100	Vertical	Pass
3	220.800	26.47	-6.18	46.0	19.53	Peak	32.00	100	Vertical	Pass
4	360.202	30.50	-1.87	46.0	15.50	Peak	131.00	100	Vertical	Pass
5	600.460	35.68	1.58	46.0	10.32	Peak	151.00	100	Vertical	Pass
6	907.388	38.18	5.08	46.0	7.82	Peak	144.00	100	Vertical	Pass

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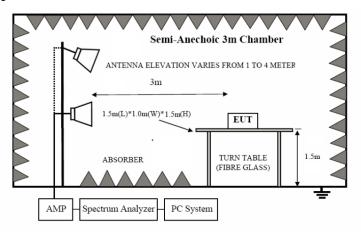


## 7. Band Edge

#### 7.1 Test Method and test Procedure:

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

## 7. 2 Radiated Test Setup



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

## 7.3 Configuration of the EUT

Same as section 5.3 of this report

## 7.4 EUT Operating Condition

Same as section 5.4 of this report.

## 7.5 Band Edge Limit

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

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

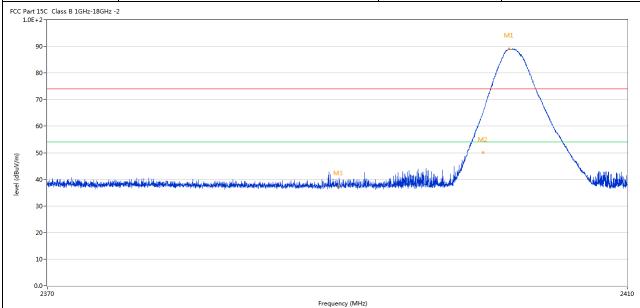
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## 7.6 Test Result

Product:	TWS Earphones	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	89.05	-3.57	74.0	15.05	Peak	145.00	100	Horizontal	N/A
2	2400.000	65.37	-3.57	74.0	-8.63	Peak	162.22	100	Horizontal	Pass
2**	2400.000	50.12	-3.57	54.0	-3.88	AV	162.22	100	Horizontal	Pass
3	2390.000	37.42	-3.53	74.0	-36.58	Peak	75.00	100	Horizontal	Pass

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F	Product:		TWS Ear	rphones		Detect	or		Vertical	
	Mode	k	Keeping Tra	ansmitting		Test Vol	tage	]	DC3.7V	
Tei	mperature		24 deş	g. C,		Humid	ity		56% RH	
Te	est Result:		Pas	SS						
Part 1:	5C Class B 1GHz-18GHz - 2-	2								
90	0-									
80	0-							M1		
70	0-						j			
	0-									
60										
								$\overline{}$		
50					ا بالألدوسان	1 ml 1 l . ku n	ullud wa		<u> </u>	
	0-	rep <mark>letery de spide stide de strongstide de strongstide de strongstide de stide de s</mark>	in his standard from the stand				M2		Milaganyahiranda	\maddadalar-
50		والمستعدد	<del>distrib</del> ile tekset die pinde	a destructive de dissipato di di			M2		Minnestruk	inera dipola late
50 40		ryskystosy k sprincy krostologia sprincy oraz dosta silbra	iliydiseledik den disk gerk-adio yeshados	adarra la sante da la la distribuita di d			M2		Marine	Later of April 100°s
50 40 30 20		rajbujana, kupinda dida da dara midana dila	ik kindhadi dara kida perinadan	مطالة الأصف احتيب وطأعها وعاماً لأ		delphotologic political	M2		William Andrews Andrew	inandahar
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50 40 30 20 10		rogliegetes; k. qui te glici stilich de descretibilités	ik kinemaji jara kalastan primaba	ndelladinain-lajuninedalitakonislik		فينافأن الدنية المتلطول	M2 •		The state of the s	
50 40 30 20 10		ng kining kanpakan dalah di sebagai sebagai kanpakan dalah di sebagai sebagai sebagai sebagai sebagai sebagai		Fr	equency (MHz)		M2		14997	2410
50 40 30 20 10		Results	Factor	Fn Limit		Detector	M2 Table	Height	ANT	2410
50 40 30 20 10	0-	gg ag and september // receipted to the control of		Fr	equency (MHz)		Table (o)	Height (cm)	14997	2410
50 40 30 20 10	Frequency	Results	Factor	Fn Limit	equency (MHz)  Over Limit				14997	2410
500 400 300 300 100 100 100 100 100 100 100 1	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	equency (MHz)  Over Limit (dB)	Detector	(0)	(cm)	ANT	2410 Verd
50 40 30 20 10 0.0.:	Frequency (MHz) 2402.082	Results (dBuV/m) 76.49	Factor (dB) -3.57	Limit (dBuV/m) 74.0	equency (MHz)  Over Limit (dB)  2.49	Detector Peak	(o) 168.00	(cm)	ANT Vertical	verd N/A

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2\*\*

2483.500

39.22

-3.57

54.0



F	Product:		TWS I	Earphones		P	olarity		Horizont	al
	Mode		Keeping '	Transmitting	Ţ	Tes	t Voltage		DC3.7V	7
Tei	mperature		24 (	deg. C,		Hı	umidity		56% RI	I
Te	st Result:		]	Pass						
Part 1:	5C Class B 1GHz-18GHz	: -2								
			Mi	ı						
90	)-			1						
80	)-									
70	)-									
60	)-			1						
			/	À						
50		at the state of		M2						
40		Hard Hard Hard Market Company		•	Water the second	المرافأ والمعادرة والمغادرة	a. A philadelphia a particular de la como	gastaspatist depositive de la company	elipudadorentumbraditumio	<del>if</del> the wife
30	)-									
20	)-									
10	)-									
0.0	)- 2470			2483						2500
		1		<u> </u>	Frequency (MHz)	<u> </u>	1	1	1	I
No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verd
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		1
1	2479.988	89.06	-3.57	74.0	15.06	Peak	154.00	100	Horizontal	N/A
1	2479.988 2483.500	89.06 54.02	-3.57 -3.57	74.0 74.0	15.06 -19.98	Peak Peak	154.00 154.00	100	Horizontal Horizontal	N/A Pass

-14.78

ΑV

154.00

100

Horizontal

Pass

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	Product:		TWS Ear	phones		Detec	tor		Vertical	
	Mode	K	eeping Tra	ansmitting		Test Vo	ltage		DC3.7V	
Те	emperature		24 deş	g. C,		Humic	lity		56% RH	
To	est Result:		Pas	SS						
FCC Part 1.0E+	15C Class B 1GHz-18GHz -:	2								
,	90-									
	80-		M1							
;	70-									
	60-		-	1						
(w/	50-			M <sub>4</sub> M <sub>2</sub>						
evel (dBuV/m)	40 - Maringhayata daga	مرسم ملين ليورير يوارين أخذها بإيرانا المدران الما		<b>N</b> .	والمراب والمناور المارية والمارة والمارة والمارة	المراوات والمتعام المراوات	Halfred Listering Hollyward	بالغارد ويواد ويرد اللهامور وياي	nadicitical administrative states	(Adham)ly
_	30-									
:	20-									
	10-									
C	0.0-									
	2470			2483.5 Fre	equency (MHz)					2500
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
						5 .	000.00	400		
1	2479.875	74.99	-3.57	74.0	0.99	Peak	220.00	100	Vertical	N/A

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

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

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## 8.0 Antenna Requirement

## **Applicable Standard**

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

This product has a Chip antenna with gain 2.67dBi 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:	Т	WS Earphones	S	Test Mo	de:	Ke	ep transmitt	ting
Mode	Kee	ping Transmitt	ing	Test Volt	age		DC3.7V	
Temperature		24 deg. C,		Humidi	ity	56% RH		
Test Result:				Detecto	or	PK		
20dB Bandwidth		882kHz						
Ref 10 d	Bm	*Att 20 dB		O kHz N OO kHz ms			.71 dBm	
0			1	F			I I	A
1 PK MAXH 10			M	-	2 <del>Pemp 2</del>	.401586	000 GHz	
20		T1 / /		<b>1</b> T2	2	-21 .402468	.80 dBm	
30								
40	5				1			
50	made				1	Land	31	DB
-60 <u></u>	<i>r</i>					1	mount	
70								
-80								
-90								
Center 2.	402 GHz	3	800 kHz/			Spa	n 3 MHz	

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Product:	TWS	Earphones		Test Mode:		Keep transmitting		
Mode	Keepin	g Transmitting		Test '	Voltage	DC3.7V 56% RH		
Геmperature	2	4 deg. C,		Hun	nidity			
Test Result:					ector		PI	K
dB Bandwidth		882kHz						•
Ref 10 di	3m * At	T1/	* RBW 30 * VBW 10 SWT 5	0 kHz	ndB [T BW 882 Temp 1	.440868  1] 20 .000000 [T1 nd: -21 .440586 [T1 nd:	.63 dBm 000 GHz .00 dB 000 kHz B] .73 dBm 000 GHz	A 3DB
80 90								
Center 2.	141 GHz	300	kHz/			Spa	n 3 MHz	

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Product:		TWS Earp	hones		Test	Mode:		Keep tran	smitting
Mode	K	Leeping Tran	nsmitting		Test '	Voltage		DC3	.7V
Temperature		24 deg.	C,		Hur	nidity		56%	RH
Test Result:		Pass			Det	tector	PK		
20dB Bandwidth	B Bandwidth 846kHz								
Ref 10 d	Зm	*Att 2	0 dB	*RBW 30 *VBW 10 SWT 5	00 kHz		1 [T1 -1	.85 dBm	
10						ndB [T	_		
0			1			BW 846 Temp 1	.000000 [T1 nd]		A
			Ăa	7			-22	.06 dBm	
1AXH 1-10						2	.479622	000 GHz	
			$\mathcal{N}$	4		Temp 2	-21	.91 dBm	
20		т/	,		M <sub>T2</sub>	2	.480468	000 GHz	
30					V				
40		كمر				J. Day			
	M						my		3DB
-50 M						·	J	Harrie Land	
00									
70									
80									
-90									
Center 2.	48 GHz	<u>'</u>	300	kHz/			Spa	n 3 MHz	•

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Product:	TWS Ear	phones	Test Mode:	Keep transmitting		
Mode	Keeping Tra	ansmitting	Test Voltage	DC3.7V 56% RH		
Temperature	24 deg	g. C,	Humidity			
Test Result:	Pas	SS	Detector	PK		
20dB Bandwidth	1.2301	MHz				
Ref 10 dE	3m ∗Att	* VBW	100 kHz 5 ms 2	-1.80 dBm -1.80 dBm 2.401868000 GHz -21.00 dB -21.00 dB -21.67 dBm		
-10			Temp 2	-21.67 dBm 2.401394000 GHz 2.401394000 GHz -21.74 dBm 2.402624000 GHz		
<b>-</b> -30			M			
-30-1	M			3DB		
60						
70 80						
-90						
Center 2.4	102 GHz	300 kHz/	1	Span 3 MHz		

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

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Product:	T	WS Earphones		Test Mo	ode:		Keep transmitting
Mode	Kee	ping Transmittin	g	Test Vol	tage		DC3.7V
Temperature		24 deg. C,		Humidity Detector		56% RH	
Test Result:		Pass					PK
0dB Bandwidth		1.236MHz					
Ref 10 dB	m +	∗Att 20 dB	*RBW 30 *VBW 10 SWT 5	0 kHz			.69 dBm
10						] 20	
_0		1		B T	W 1. emp 1	[T1 nd]	000 MHz
<b>PK AXH -10</b>			$\Lambda_{n}$	<u> </u>	2.		.58 dBm 000 GHz
		La Car		$\mathbb{V}^{N}$		-21	.83 dBm
-20	1	3	1	(T2	2.	4416300	000 GHz
30							
40	A AND				L	· ~	
neon 1	Variation 1					w.M	3DB
1							~ 4
60			+ +				
70							
80							
-90							
Center 2.4	41 GHz	300	0 kHz/			Spa	n 3 MHz

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Product:		TWS Earp	hones		Test	Mode:		Keep tran	nsmitting	
Mode	Ke	eping Tran	nsmitting		Test '	Voltage		DC3	3.7V	
Temperature		24 deg.	C,		Humidity			56% RH		
Test Result:		Pass	1	Detector			PK			
20dB Bandwidth	Bandwidth 1.272MHz							_	_	
R)				*RBW 30	kHz	Marker	1 [T1	]		
<b>4</b> \$/				★VBW 10	0 kHz		-1	.84 dBm		
Ref 10 d	Bm	*Att 2	0 dB	SWT 5	ms	2	.479868	000 GHz	_	
10						ndB [T	_	.00 dB	Ī	
			1			BW 1 Temp 1		1	A	
-0			X	π		тетр т		.56 dBm		
AAXH			$\prod_{i=1}^{n} \prod_{j=1}^{n} \prod_{i=1}^{n} \prod_{j=1}^{n} \prod_{j=1}^{n} \prod_{j=1}^{n} \prod_{i=1}^{n} \prod_{j=1}^{n} \prod_{j$	$\land$		2	.479400	000 GHz		
-10		M	\\\\\\	~~\\	<del>√~</del> ~	Temp 2	[T1 ndi	<del>)</del>	İ	
			ľ		O.	T2 2	-21 .480672	.64 dBm		
20		1				W.				
	l j					ļ ţ				
-30									<u> </u>	
40	N - 1 1 1 1 1					- V	- A			
	1 V						m	V	3DB	
-50-1	V						_	\ \	ļ	
W								ų,		
60										
70										
80										
-90		1		<b> </b>						

Date: 27.MAR.2025 10:12:59

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## 10.0 FCC ID Label

## FCC ID: WKA-191A

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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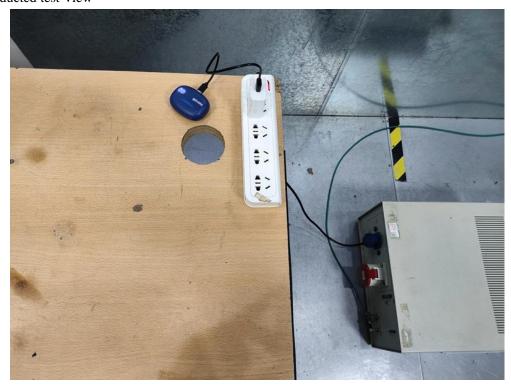
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## 11.0 Photo of testing

## 11.1 Conducted test View



Date: 2025-03-29



## Radiated emission test view



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## 11.2 Photographs - EUT





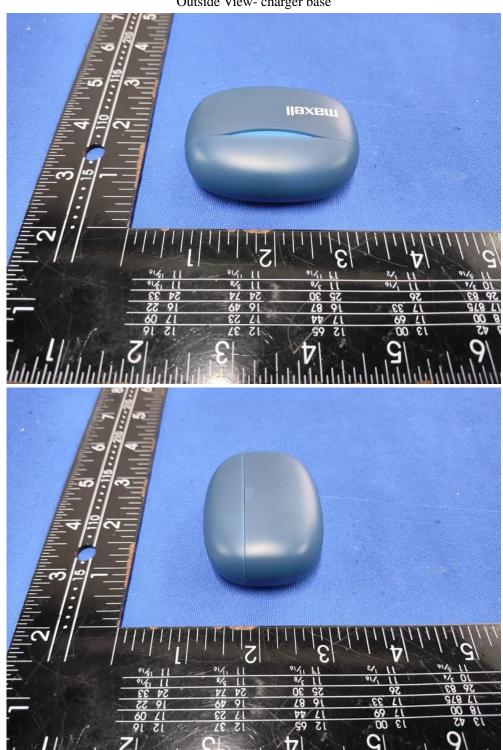
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Outside View- charger base



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Outside View- charger base



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Inside View - charger base





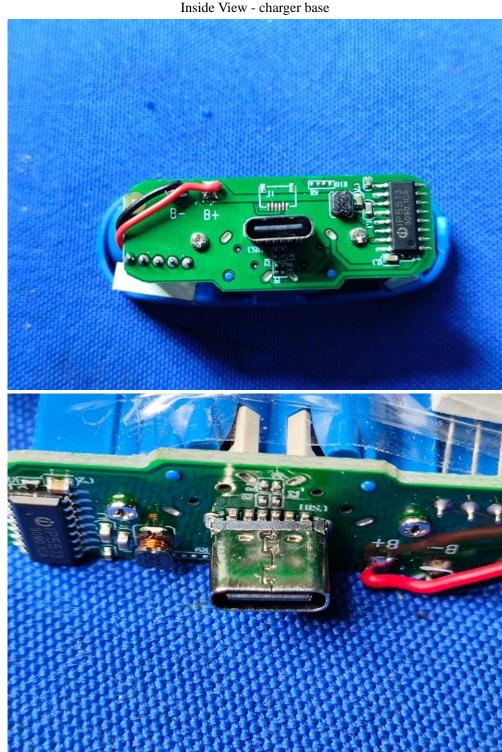
The report refers only to the sample tested and does not apply to the bulk.

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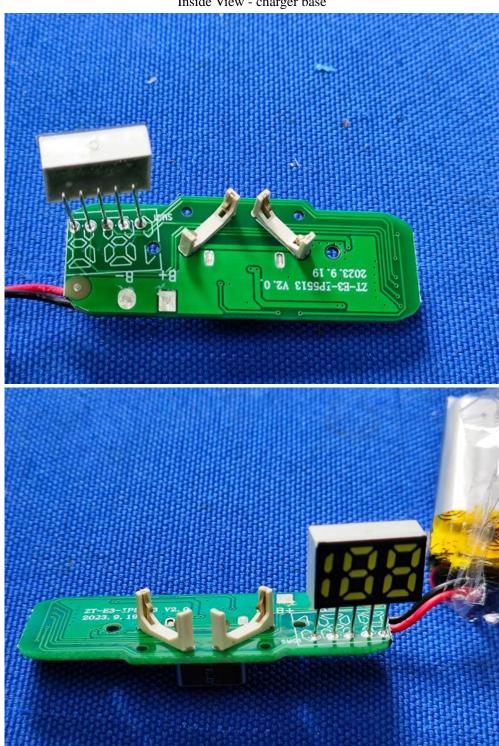
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Inside View - charger base



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Outside View - Left earphone



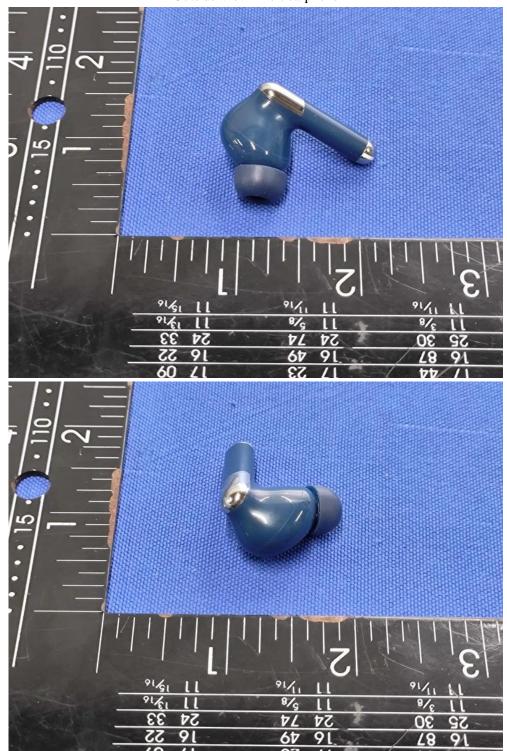
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Outside View - Left earphone



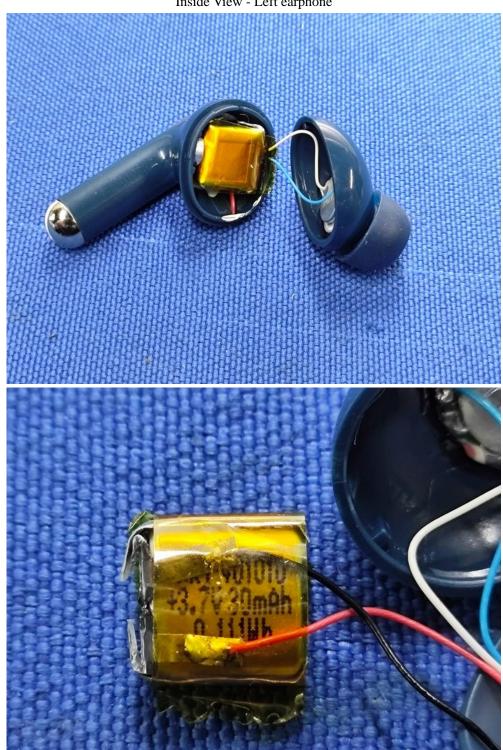
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Inside View - Left earphone



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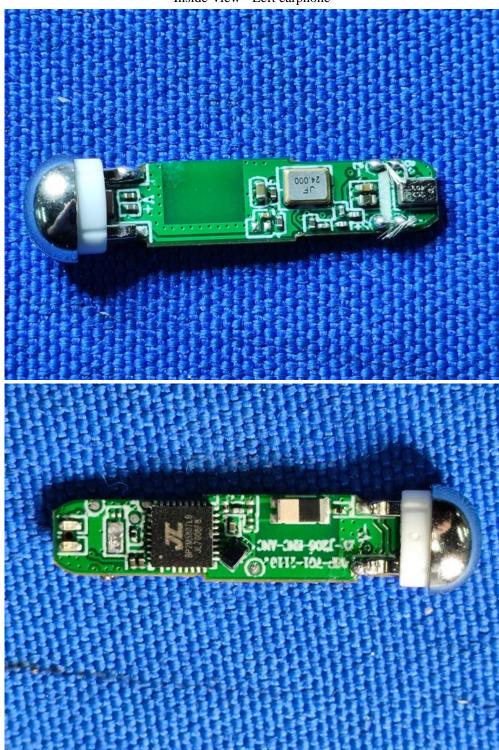
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Inside View - Left earphone



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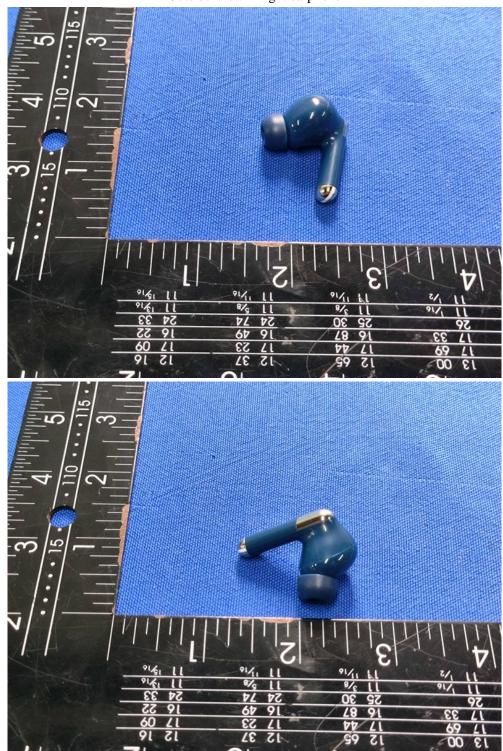
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Outside View - Right earphone



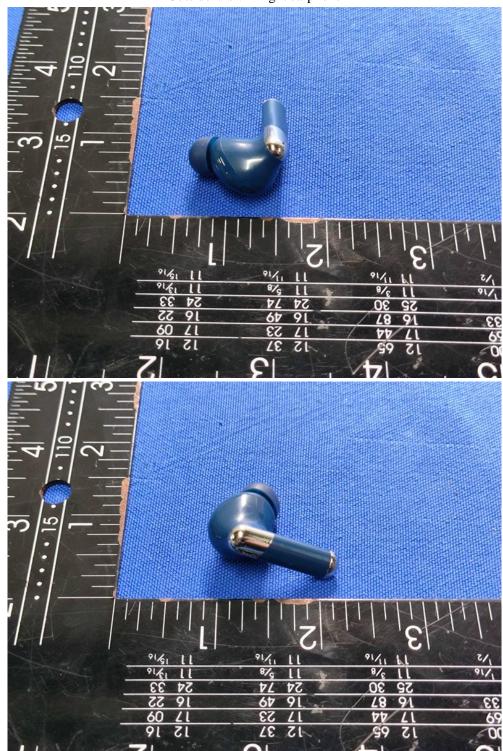
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Outside View - Right earphone



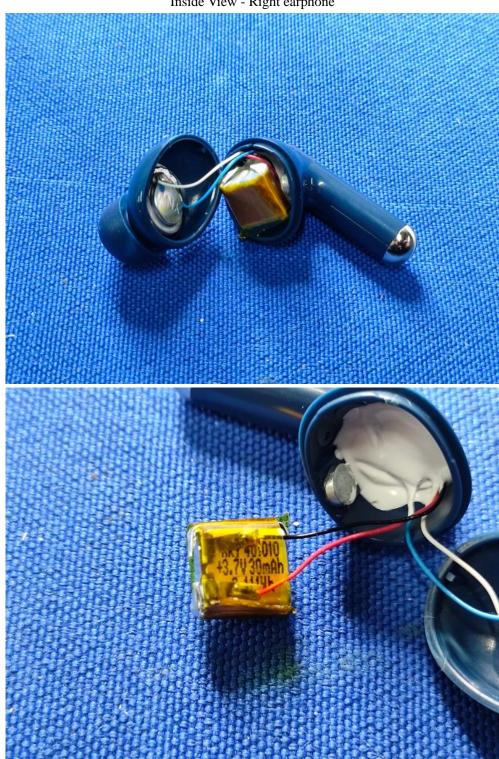
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Inside View - Right earphone



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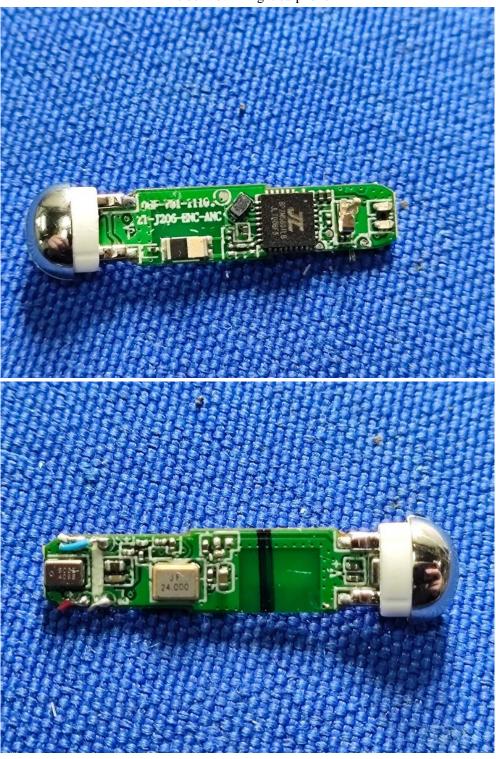
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Inside View - Right earphone



-- End of the report--

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