



| Report No.: File reference No.: | TW2110182E 2021-11-02 |
|------------------------------------|---|
| Applicant: | Shenzhen Swetz Sound Technology Co., Limited |
| Product: | TWS Earbuds |
| Model No.: | YM-T01, SS-TS125B, MF-T105, TTWS05 |
| Trademark: | PISEN, Litossa, XMOBILE, AVA+, HYDRUS, Totrro |
| 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 | |

lang long

Terry Tang

Manager

Dated:

November 02, 2021

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 17025:2005 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
Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission United SatesRegistration Number: 744189For 3m Ane-hoic Chamber

1.2 Applicant Details

Applicant:Shenzhen Swetz Sound Technology Co., LimitedAddress:No.18 Xiantian Road, Longgang Central, Shenzhen, ChinaTelephone:--Fax:--

1.3 Description of EUT

| Product: | TWS Earbuds |
|-----------------------------|--|
| Manufacturer: | Shenzhen Swetz Sound Technology Co., Limited |
| Address: | No.18 Xiantian Road, Longgang Central, Shenzhen, China |
| Trademark: | PISEN, |
| Additional Trademark: | Litossa, XMOBILE, AVA+, HYDRUS, Totrro |
| Model Number: | YM-T01 |
| Additional Model Name: | SS-TS125B, MF-T105, TTWS05 |
| Hardware Version: | V1.0 |
| Software Version: | VP1.01 |
| Serial No.: | YMT01211000008 |
| Rating: | DC5V input or Built-in DC3.7V, 40mAh Li-ion battery for earphones and DC5V |
| | input or Built-in DC3.7V, 300mAh Li-ion battery for charger base. |
| Modulation Type: | GFSK, Pi/4D-QPSK, 8DPSK (Bluetooth) |
| Operation Frequency: | 2402-2480MHz |
| Channel Separate: | 1MHz |
| Channel Number: | 79 |
| Antenna Designation | Ceramic antenna with gain 2.67dBi (Get from the antenna specification provided |
| | by the manufacturer) |

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- 1.4 Submitted Sample: 1 pc
- 1.5 Test Duration 2021-10-25 to 2021-11-02
- 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 | 2021-06-18 | 2022-06-17 |
| LISN | R&S | EZH3-Z5 | 100294 | 2021-06-18 | 2022-06-17 |
| LISN | R&S | EZH3-Z5 | 100253 | 2021-06-18 | 2022-06-17 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2021-06-18 | 2022-06-17 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2021-06-18 | 2024-06-17 |
| Spectrum | R&S | FSIQ26 | 100292 | 2021-06-18 | 2022-06-17 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2021-07-02 | 2024-07-01 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2021-07-02 | 2024-07-01 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2021-06-18 | 2022-06-17 |
| Power sensor | Anritsu | MA2491A | 32263 | 2021-06-18 | 2022-06-17 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2021-07-02 | 2024-07-01 |
| 9*6*6 Anechoic | | | N/A | 2021-07-02 | 2022-07-01 |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2021-06-18 | 2022-06-17 |
| EMI Test Receiver | RS | ESH3 | 860904/006 | 2021-06-18 | 2022-06-17 |
| Spectrum | HP/Agilent | ESA-L1500A | US37451154 | 2021-06-18 | 2022-06-17 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2021-06-18 | 2022-06-17 |
| Spectrum | RS | FSP | 1164.4391.38 | 2021-01-16 | 2022-01-15 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8M/FA | | 2021-06-18 | 2022-06-17 |
| RF Cable | Zhengdi | 7m | | 2021-06-18 | 2022-06-17 |
| RF Switch | EM | EMSW18 | 060391 | 2021-06-18 | 2022-06-17 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2021-06-18 | 2022-06-17 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2021-06-18 | 2022-06-17 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2021-01-06 | 2022-01-05 |

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 15.207 | 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

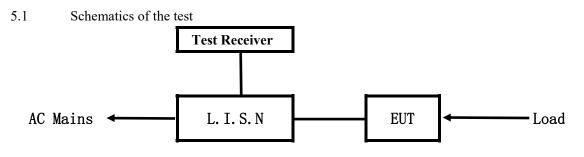
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5. Power Line Conducted Emission Test



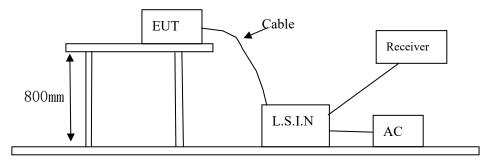
EUT: Equipment Under Test

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 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

| Device | Manufacturer | Model | FCC ID |
|---------------|--------------------------------------|--------------------|---------------|
| TWS Earbuds | Shenzhen Swetz Sound Technology Co., | YM-T01, SS-TS125B, | 24.0KX VM T01 |
| I W S Earbuds | Limited | MF-T105, TTWS05 | 2AOKX-YM-T01 |

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B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A | | | |

C. Peripherals

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

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency | Limits (dB 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 | | |
| $5.00~\sim~30.00$ | 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:

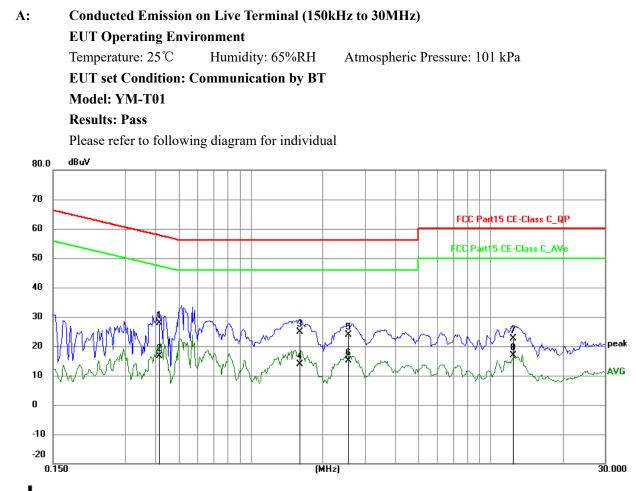
Pass

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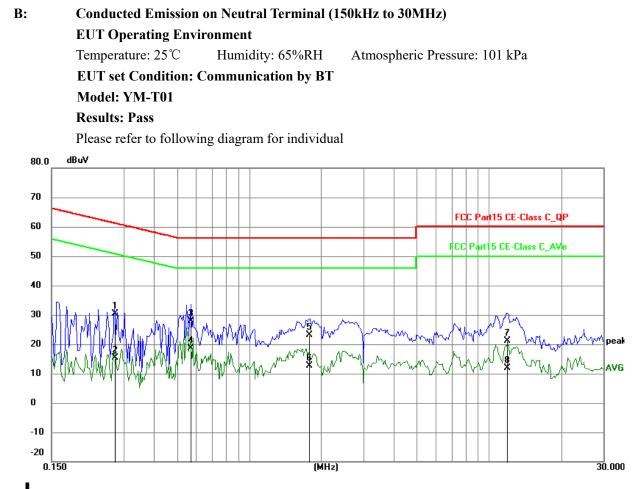


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|--|
| 1 | 0.4152 | 18.13 | 9.76 | 27.89 | 57.54 | -29.65 | QP | Ρ | |
| 2 | 0.4152 | 6.80 | 9.76 | 16.56 | 47.54 | -30.98 | AVG | Ρ | |
| 3 | 1.5969 | 15.14 | 9.80 | 24.94 | 56.00 | -31.06 | QP | Ρ | |
| 4 | 1.5969 | 4.18 | 9.80 | 13.98 | 46.00 | -32.02 | AVG | Ρ | |
| 5 | 2.5485 | 14.16 | 9.82 | 23.98 | 56.00 | -32.02 | QP | Ρ | |
| 6 | 2.5485 | 5.38 | 9.82 | 15.20 | 46.00 | -30.80 | AVG | Ρ | |
| 7 | 12.4224 | 12.48 | 10.27 | 22.75 | 60.00 | -37.25 | QP | Ρ | |
| 8 | 12.4224 | 6.58 | 10.27 | 16.85 | 50.00 | -33.15 | AVG | Ρ | |

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| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.2748 | 20.59 | 9.75 | 30.34 | 60.97 | -30.63 | QP | Ρ |
| 2 | 0.2748 | 5.68 | 9.75 | 15.43 | 50.97 | -35.54 | AVG | Р |
| 3 | 0.5712 | 18.21 | 9.77 | 27.98 | 56.00 | -28.02 | QP | Р |
| 4 | 0.5712 | 8.74 | 9.77 | 18.51 | 46.00 | -27.49 | AVG | Р |
| 5 | 1.7724 | 13.27 | 9.80 | 23.07 | 56.00 | -32.93 | QP | Р |
| 6 | 1.7724 | 2.87 | 9.80 | 12.67 | 46.00 | -33.33 | AVG | Р |
| 7 | 11.8959 | 10.86 | 10.24 | 21.10 | 60.00 | -38.90 | QP | Р |
| 8 | 11.8959 | 1.60 | 10.24 | 11.84 | 50.00 | -38.16 | AVG | Ρ |

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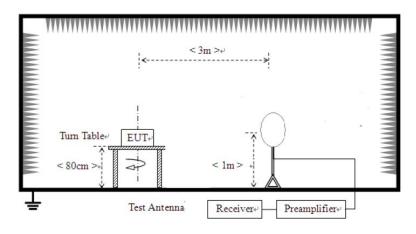


6 Radiated Emission Test

- 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

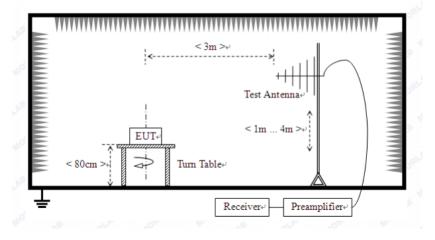


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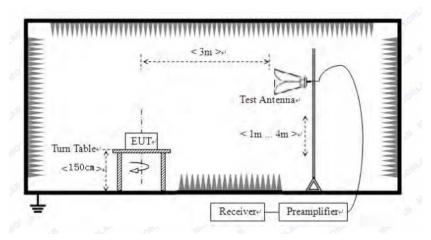
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For radiated emissions from 30MHz to1GHz



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.

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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 Fundame | ntal (3m) | Field St | Field Strength of Harmonics (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.

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

| Frequency Range (MHz) | Distance (m) | Field strength (dB μ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

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

5. 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.

7. 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.

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

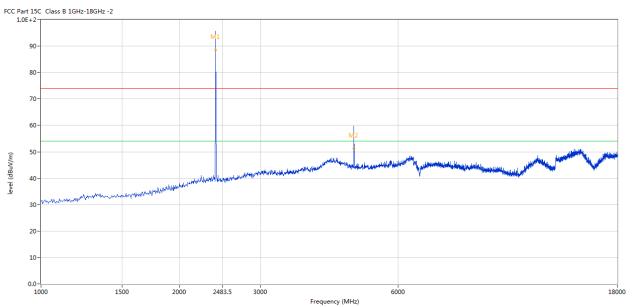
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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

Horizontal

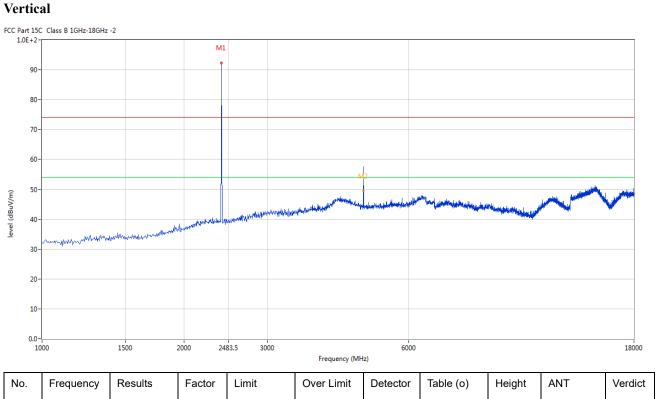


| No. | Frequency | Results | Factor | Limit | Over | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|--------|----------|-----------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | Limit | | | (cm) | | |
| | | | | | (dB) | | | | | |
| 1 | 2402.149 | 95.63 | -3.57 | 114.0 | -18.37 | Peak | 303.00 | 100 | Horizontal | Pass |
| 1** | 2402.149 | 88.86 | -3.57 | 94.0 | -5.14 | AV | 303.00 | 100 | Horizontal | Pass |
| 2 | 4802.799 | 59.77 | 3.12 | 74.0 | -14.23 | Peak | 303.00 | 100 | Horizontal | Pass |
| 2** | 4802.799 | 51.24 | 3.12 | 54.0 | -2.76 | AV | 303.00 | 100 | Horizontal | Pass |

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| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|----------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 2402.149 | 92.32 | -3.57 | 114.0 | -21.68 | Peak | 315.00 | 100 | Vertical | Pass |
| 2 | 4802.799 | 57.63 | 3.12 | 74.0 | -16.37 | Peak | 159.00 | 100 | Vertical | Pass |
| 2** | 4802.799 | 49.46 | 3.12 | 54.0 | -4.54 | AV | 159.00 | 100 | Vertical | Pass |

Note: the PK emission level less than the AV limit, no necessary to record the AV emission level.

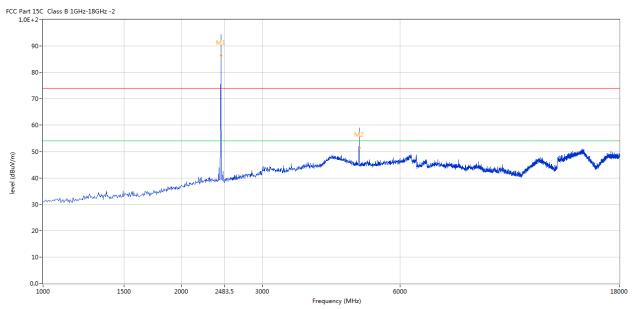
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal

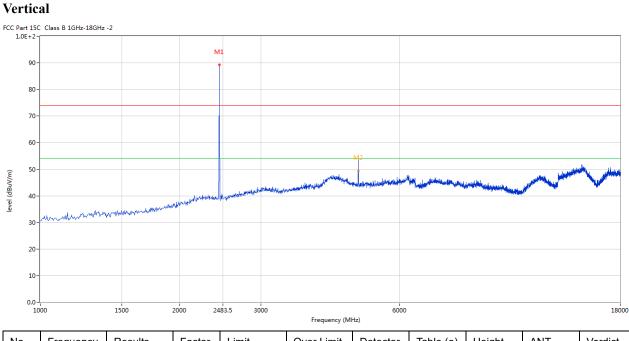


| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 2440.390 | 94.86 | -3.57 | 114.0 | -19.14 | Peak | 187.00 | 100 | Horizontal | Pass |
| 1** | 2440.390 | 87.23 | -3.57 | 94.0 | -6.77 | AV | 187.00 | 100 | Horizontal | Pass |
| 2 | 4879.280 | 58.87 | 3.20 | 74.0 | -15.13 | Peak | 295.00 | 100 | Horizontal | Pass |
| 2** | 4879.280 | 51.41 | 3.20 | 54.0 | -2.59 | AV | 295.00 | 100 | Horizontal | Pass |

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| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|----------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 2440.390 | 89.19 | -3.57 | 114.0 | -24.81 | Peak | 142.00 | 100 | Vertical | Pass |
| 2 | 4879.280 | 55.22 | 3.20 | 74.0 | -18.78 | Peak | 126.00 | 100 | Vertical | Pass |
| 2** | 4879.280 | 49.38 | 3.20 | 54.0 | -4.62 | AV | 126.00 | 100 | Vertical | Pass |

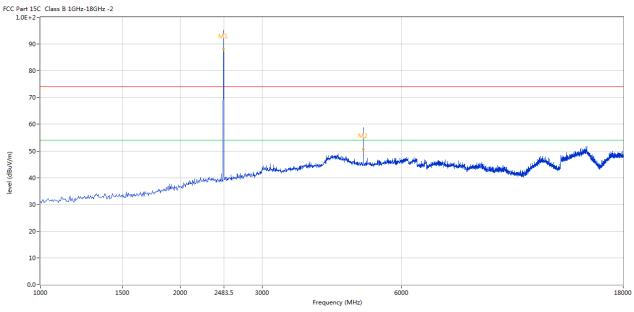
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

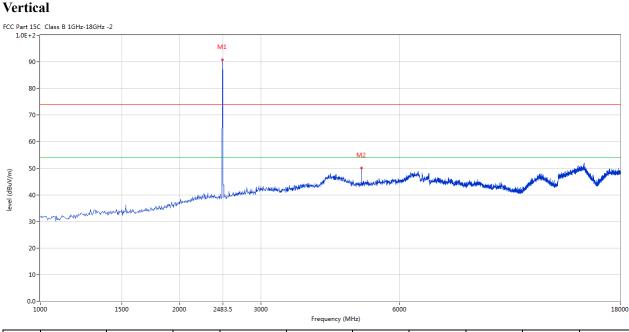


| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 2479.630 | 96.12 | -3.57 | 114.0 | -17.88 | Peak | 123.00 | 100 | Horizontal | Pass |
| 1 | 2479.630 | 88.59 | -3.57 | 94.0 | -5.41 | AV | 123.00 | 100 | Horizontal | Pass |
| 2 | 4960.010 | 58.79 | 3.36 | 74.0 | -15.21 | Peak | 143.00 | 100 | Horizontal | Pass |
| 2** | 4960.010 | 50.69 | 3.36 | 54.0 | -3.31 | AV | 143.00 | 100 | Horizontal | Pass |

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| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|----------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 2479.630 | 90.78 | -3.57 | 114.0 | -23.22 | Peak | 152.00 | 100 | Vertical | Pass |
| 2 | 4960.010 | 50.04 | 3.36 | 74.0 | -23.96 | Peak | 152.00 | 100 | Vertical | Pass |

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(3) Margin=Emission-Limits

- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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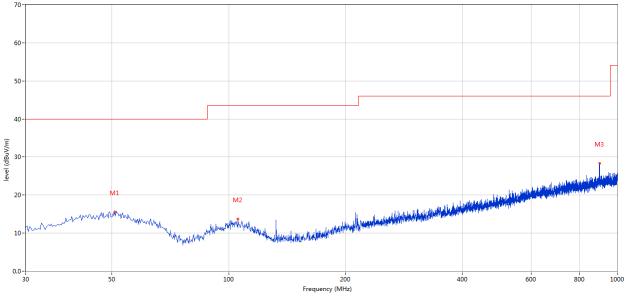
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



| No. | Frequenc | Results | Factor | Limit | Over Limit | Detector | Table (o) | Height | ANT | Verdict |
|-----|----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
| | y (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
| 1 | 50.850 | 15.60 | -11.40 | 40.0 | -24.40 | Peak | 160.00 | 100 | Horizontal | Pass |
| 2 | 105.641 | 13.66 | -13.27 | 43.5 | -29.84 | Peak | 240.00 | 100 | Horizontal | Pass |
| 3 | 900.115 | 28.37 | -1.86 | 46.0 | -17.63 | Peak | 126.00 | 100 | Horizontal | Pass |

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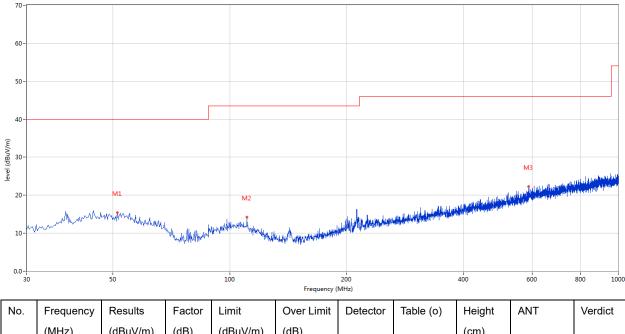
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition:

Keep Tx transmitting

Results:PassPlease refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | | (cm) | | |
|---|---------|----------|--------|----------|--------|------|--------|------|----------|------|
| 1 | 51.335 | 15.38 | -11.41 | 40.0 | -24.62 | Peak | 273.00 | 100 | Vertical | Pass |
| 2 | 110.732 | 14.19 | -13.64 | 43.5 | -29.31 | Peak | 112.00 | 100 | Vertical | Pass |
| 3 | 587.368 | 22.26 | -5.51 | 46.0 | -23.74 | Peak | 147.00 | 100 | Vertical | Pass |

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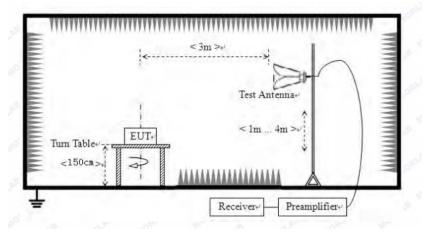


7. Band Edge

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: TWS | | | | | Pola | rity | Horizontal | | | |
|--|--|--|--|---|---------------------------------------|---|--------------------------------------|----------------|--|------------------------|--|
| | Mode | | Keepin | g Transmitti | ing | Test Vo | oltage | DC3.7V | | | |
| Ter | mperature | | 24 | 4 deg. C, | C, Humidity | | | | 56% RH | | |
| Te | st Result: | | Pass | | | | | | | | |
| Part 1: 1.0E+2 | 5C Class B 1GHz-18GHz 2-r | -2 | | | | | | | | | |
| 90 |)- | | | | | | | / | γ — | | |
| 80 |)- | | | | | | | | | | |
| 70 |)- | | | | | | | | | | |
| 60 |)- | | | | | | | | | | |
| | | | | | | | | | | | |
| 50 |)- | | | | | | | M2 | | | |
| 50 40 | | there and well affect to contribute affects | North Landstone and a | ىلى تورىغى بىلىغۇر بىلىغۇر يېرىكى تەرىپىلىرىغى بالىرىغان بىلىغىنى بىلىنىڭ تۇرىغى بىلى | A started block and block | ann ta da san dan san a sida a an ana | M3 | M2 Shaddada | | | |
| |)- | theor maintain the the statistic to Alternation | terret i te | tay something and the set of the set | Muhanin an William Maria | | M3 | M2 • | <u>_</u> | Hereine and the second | |
| 40 30 |) | lano valorida pradicio infilmante d | tavaithuddaanka b | ىرىنى ئەرىپىرىنىڭ يېرىكى ئىلىيىتى بىلىيىتى بىلىيىتى بىلىيىتى بىلىيىتى بىلىيىتى بىلىيىتى بىلىيىتى بىلىيىتى بىلى يېرىكى بىلىيى | Man Hanston and History and | | M3 | M2 o | han the second s | Herea, a | |
| 40 30 20 |) - Male is consistent and it de rvised | lan an a | Haracinina da b | harnamat dan kanal dan kata kata kata kata kata kata kata ka | An having a fill showing a | | M3 Sedentaria data di United | M2 | | l l traise | |
| 40 30 |) - Male is consistent and it de rvised | ilean rulanta (Kajila) (Kilan Kajila) | Handi Linhan Halaman A. L | ternensisteni itanisetteteen | And Hawkenser Wilsonservou | | M3 education and the physical set | M2 * | | Here, a | |
| 40 30 20 10 |) | ikeen valenda 1944 diinee kultaa valee | Never Standard and a | 140-049-06-06-06-06-06-06-06-06-06-06-06-06-06- | | | M3 | M2 Sheeting | | 2410 | |
| 40 30 20 10 |) | langa na dan tan kata kata kata kata kata kata kat | | ternenistenisterioren | Frequency (MHz) | | | Sharehold - | | 2410 | |
| 40 30 20 10 0.0 |) | Results | Factor | Limit | | | M3 | Height | ANT | 2410 Verdict | |
| 40 30 20 10 0.0 |) | | | | Frequency (MHz) | анда витери и и торо | | Sharehold - | ANT | | |
| 40 30 20 10 20 10 |) | Results | Factor | Limit | Frequency (MHz) | анда витери и и торо | | Height | ANT Horizontal | | |
| 40 30 20 10 |) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Frequency (MHz) Over Limit (dB) | Detector | Table (o) | Height (cm) | | Verdict | |

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| P | Product: | | TW | S Earbuds | | Detector | | Vertical | | | |
|---|-----------------------|---|---|--|---|---|----------------------------|--------------------|------------|---|--|
| | Mode | | Keeping | g Transmitti | ing | Test Vo | ltage | DC3.7V 56% RH | | | |
| Ter | nperature | | 24 | 4 deg. C, | | Humic | lity | | | | |
| | st Result: | | | Pass | | | | | | | |
| C Part 15 1.0E+2 | iC Class B 1GHz-18GHz | -2 | | | | | | | | | |
| 1.02+2 | | | | | | | | | M1 | | |
| 90 | - | | | | | | | | Λ | | |
| 80 | - | | | | | | | | | | |
| 70 | | | | | | | | | /\ | | |
| 60 | | | | | | | | / | (<u>\</u> | | |
| 00 | | | | | | | | / | / | | |
| | | | | | | | | | | | |
| § 50 | - | | | | | | | M2 | 2 1 | 4 | |
| (III/Angp) 40 | | en set set filme to be set and to set and | مرور من | المراجع والمراجع والمراجع والمراجع والمراجع والمراجع | with the plant of the work of the state burger | all derived at so in some i de statisfica | M3 | | 2 | hometymate | |
| (III/Annan) 40 30 | | eresterkilerskilerskilensensessesses | hterning from a spring of the | ىرىنى ئەرىرىيە ئەرىرىيە يەرىرىكە ئەرىلىغۇرىلىرى ئەرىلىرىكە ئەرىرىكە ئەرىرىكە ئەرىرىكە ئەرىلىكە ئەرىلىكە ئەرىلى | ander Merster ander State Constant ander State Constant ander | an fair an | | | ! | have been also and the second | |
| 30 | | unstatista kijama na una stjeda | Marsington and a second | <u>ىر ئۆر مەر مەر مەر مەر مەر مەر مەر مەر مەر مە</u> | nde Artonia and a state of the | nterferði er verski skon kar skalda skal | | | 2 | A Annother | |
| u/angn) 40 | | างางสารไปที่มีการสารสารสารไปเสรี | Marxiestendut gestigd út | ti de antida esta de la constante de la constan La constante de la constante de | unitette ta daga ku dagi kaca ya ku ku ku ku | 16.443.4596.4.2006.4.2006.4.200 | | | 2 | A hostingueste | |
| 30 | | an at the block of the block of the state of t | Manana ang kang kang kang kang kang kang | ال و ر منه می و می | ndra Marta da | an de la casa de la cas | | | | | |
| 40 30 20 10 0.0 | | างาะเสราะได้เข้าค่า มีได้กระการแกรงของสระสร้ | Manain funda an | SSG-miles, h, ha _n mith sciedhn | under Standig von der Schweisen der Standig bereiten der Standig bereiten der Standig bereiten der Standig bere | 98.849.4988.420.420.420.420 | | | 2 | | |
| 40 30 20 10 0.0 | - - - | an a | Maria in frad de graige d'air | 114_000440,000,000,000,000,000,000,000,000 | Frequency (MF | | | | | 2410 | |
| 40 30 20 10 0.0 2 | | Results | Factor | Limit | | | | | ANT | 2410 Verdict | |
| 40 30 20 10 0.0 2 | | | | | Frequency (MF | 1z) | huinedaunenter, in under a | ang, and and and a | 1 | T | |
| 40 30 20 10 0.0 | | Results | Factor | Limit | Frequency (MF Over Limit | 1z) | huinedaunenter, in under a | Height | 1 | T | |
| 40 30 20 10 0.0 2 No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Frequency (MF Over Limit (dB) | ^{iz)} Detector | Table (o) | Height (cm) | ANT | Verdict | |

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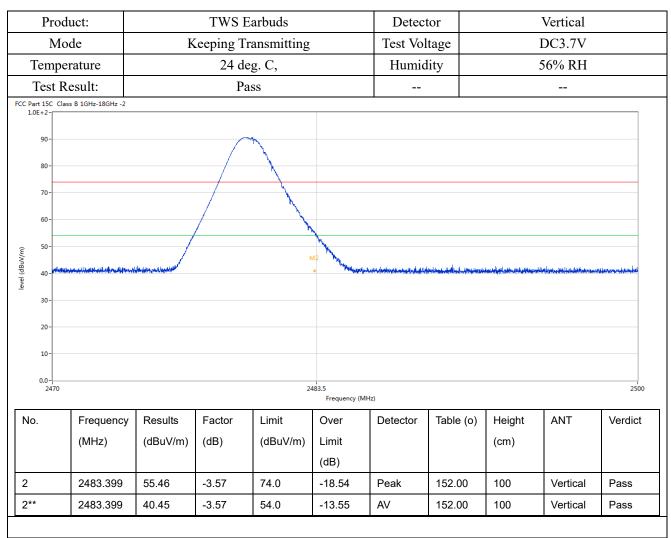


| | Proc | luct: | | TWS | Earbuds | | Pola | rity | Horizontal | | | |
|----------------|----------------------------------|--|---|----------------|-------------|---|--|--|--|---|------------------------------|--|
| | Мо | ode | k | Keeping T | ransmitting | 5 | Test Vo | ltage | | DC3.7V | | |
| Т | èmpe | erature | | | eg. C, | | Humi | dity | 56% RH | | | |
| Τ | Test R | Result: | | Р | ass | | | | | | | |
| C Part 1.0E | | ass B 1GHz-18GHz -2 | | | | | | | | | | |
| 2.02 | 90- | | | (| www | | | | | | | |
| | 80- | | | | - N. | | | | | | | |
| | 70- | | | | - N | | | | | | | |
| | 60- | | لمر | / | Y | N. | | | | | | |
| | | | | | | 1 | | | | | | |
| | 50- | | | | | M2 M. | | | | | | |
| | | and the standard by the standard by | | | | M2 444 | | 4 | | | - 1- b | |
| | 40- WAW | arablenderer koningelannet kapalaker der der | unious and | | | M2 WWW | antional states and a state of the states of | tsa filja, ada sa balan diban diban da balansa | un anderalised une | iendetrichtesternischen sinder | Norkinsking, Marmo | |
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| | 40- 30- | nulpinenska planak kontek | under and the second second | | | M2 Why have | materialy in the lost of the lost | terfiqueterneter observer an | snes Middyn Billyn diryndiaen y | nn ditadopikana karan batarin da | Nekkodikeerme | |
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| - | 40- 30- 20- | nutice i ne ni venet ka site de set | under and the second | | | M2 483.5 Frequency (N | | terkiyyele witar olka tala as | one aller aller de présente anné | nn birdigida en yk waar belevisie | | |
| _ | 40- 30- 20- 10- 2470 | Frequency | Results | Factor | | 2483.5 | | Table (o) | Height | ANT | telledive 2500 Verdict | |
| | 40- 30- 20- 10- 2470 | | | Factor (dB) | | 2483.5 Frequency (N | IHz) | | | | 2500 | |
| No. | 40- 30- 20- 10- 2470 | Frequency | Results | | Limit | 2483.5 Frequency (N Over | IHz) | | Height | | 2500 | |
| _ | 40- 30- 20- 10- 2470 | Frequency | Results | | Limit | 2483.5 Frequency (N Over Limit | IHz) | | Height | | 2500 | |

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

2. 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.

3. 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 Ceramic antenna with gain 2.67dBi Max. It fulfills the requirement of this section. Test Result: Pass

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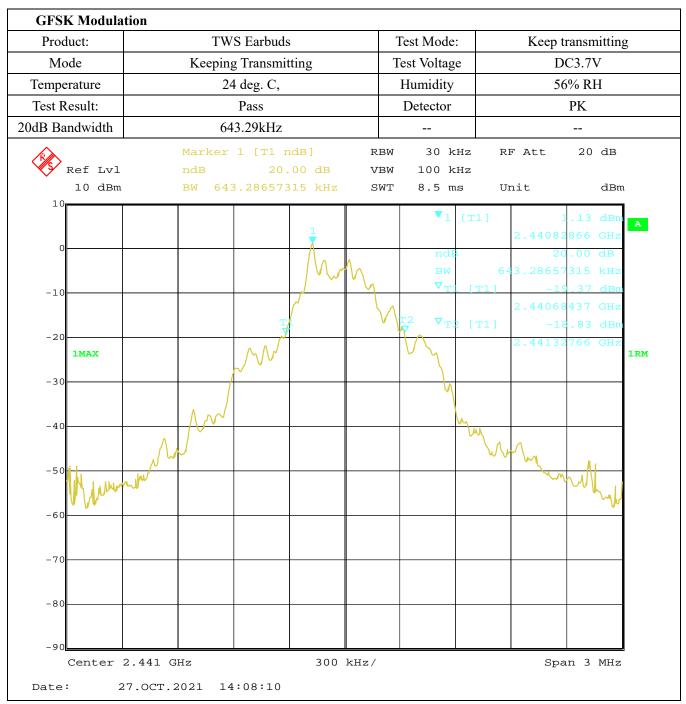




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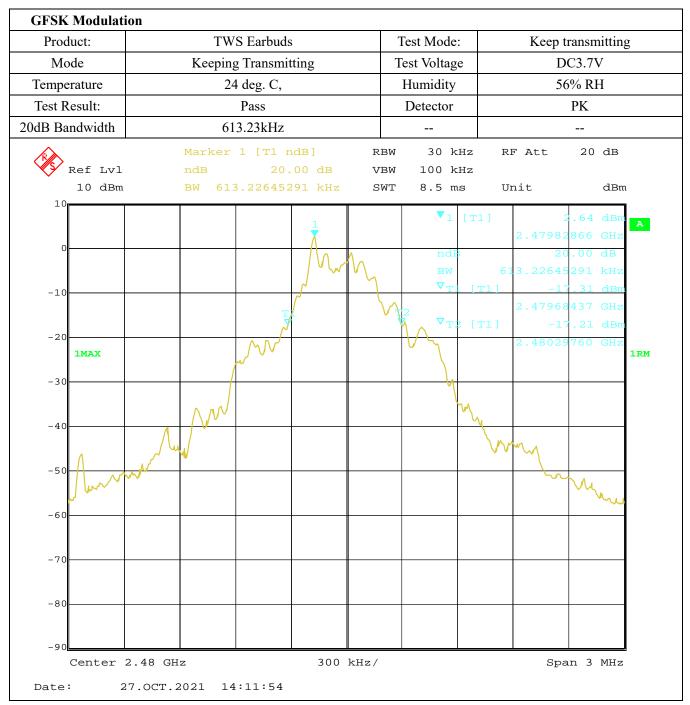




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| Product: | | TW | S Earbuds | | | Test Mod | le: | Keep t | ransmitting | g |
|------------------|----------|----------|------------|------------|------|--------------------------|------------|------------------|---------------------------|-----|
| Mode | | Keeping | g Transmit | ting | | Test Voltage Humidity | | DC3.7V 56% RH | | |
| Temperature | | 24 | deg. C, | | | | | | | |
| Test Result: | | | Pass | | | Detecto | r | | PK | |
| 20dB Bandwidth | | 1.1 | 112MHz | | | | | | | |
| <u>ko</u> | Ι | Delta 1 | [T1] | | RB | W 30 | kHz | RF Att | 20 dB | |
| Ref Lvl | | | 1. | 13 dB | VB | W 100 | kHz | | | |
| 10 dBm | | 1 | .112224 | 45 MHz | SW | г 8.5 | ms | Unit | dBm | L |
| 10 | | | | | | ▼ | 1 [T1] | -24 | 4.33 dBm | A |
| | | | | | | | | 2.40142 | 2585 GHz | - |
| 0 | | | | | 2 | A | l [T1] |] | 1.13 dB | |
| | | | | ΛΛ | hΛ | ▼. | 2 [T1] | 1.11222 | 2445 MHz 3.99 dBm | |
| -10 | | | | | ~~ \ | | | 2.40211 | 122 GHz | |
| | | | \wedge | <i>/</i> / | | $\land \land$ | | | | |
| -20 | 0.0 17 | | ᡜ᠆ᡃᢕ᠆ᢦ | / | | | | | | 1RM |
| _1 D1 −23 | .99 dBm— | | Ĭ | | | Ī | | | | IRM |
| -30 | | \wedge | | | | \ | | | | |
| | | . [| | | | | $ \rangle$ | ٨ | $^{\circ}$ | |
| -40 | | 1. | | | | | - Wa | M M | $\wedge \setminus \vdash$ | |
| -50 | | V | | | | | | | V | |
| | * | | | | | | | | | |
| -60 | | | | | | | | | | |
| -00 | | | | | | | | | | |
| 70 | | | | | | | | | | |
| -70 | | | | | | | | | | |
| | | | | | | | | | | |
| -80 | | | | | | | | | | |
| | | | | | | | | | | |
| -90 Center | 2.402 GH | z | | 300 | kHz/ | 1 | 1 | Spa | an 3 MHz | |

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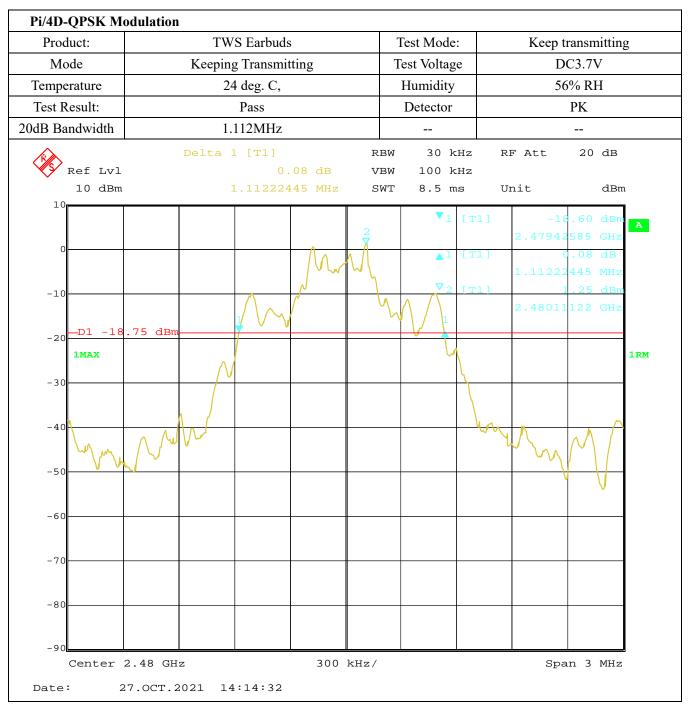


| Product: | | arbuds | 5 | | Test Mod | e: | Keep t | ransmittin | g | | |
|-------------------|-----------|-----------|-------|--------|--------------|----------------------|-----------|----------------------|----------|-----|--|
| Mode | K | ransmit | tting | | Test Voltage | | DC3.7V | | | | |
| Temperature | | 24 de | g. C, | | | Humidity Detector | | 56% RH | | | |
| Test Result: | | Pa | | | | | | РК | | | |
| 0dB Bandwidth | | 1.112 | MHz | | | | | | | | |
| <u>k</u> | De | lta 1 [| T1] | | RBW | 1 30 | kHz R | RF Att | 20 dB | | |
| Ref Lvl | | | 0. | 39 dB | VBW | 100 | kHz | | | | |
| 10 dBm | | 1.1 | 12224 | 45 MHz | SWI | 8.5 | ms U | Jnit | dBn | ı | |
| 10 | | | | | | ▼1 | [T1] | -20 | .29 dBm | A | |
| | | | | | 2 | | | 2.44042 | 585 GHz | A | |
| 0 | | | | Ala | Ň | 1 | [T1] | C | .39 dB | | |
| | | | | | | _ | | 1.11222 | | | |
| -10 | | | | | | ∇_2 | [T1] | -(| 1.17 dBm | | |
| | | | $\$ | | M | Λ | | 2.44111 | 122 GHz | | |
| -20 <mark></mark> | .17 dBm | | V V | | | ┼┟╱╶╞ | | | | | |
| 1MAX | | | | | | l l | | | | 1RM | |
| -30 | | Λ | | | | | Λ | | | | |
| | | | | | | | | | ~ | | |
| -40 | | | | | | | | $\Lambda $ | \sim (| | |
| -40 | / WANA | | | | | | | $\gamma \sim \gamma$ | | | |
| <u> </u> | J | • • | | | | | | | V | | |
| -50 | | | | | | | | | | | |
| | | | | | | | | | | | |
| -60 | | | | | | | | | | | |
| | | | | | | | | | | | |
| -70 | | | | | | | | | | | |
| | | | | | | | | | | | |
| -80 | | | | | | | | | | | |
| | | | | | | | | | | | |
| -90 | | | | | | | | | | | |
| | 2.441 GHz | | | 300 | kHz/ | | | Spa | ın 3 MHz | - | |

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| Product: | | TW | S Earbuds | 5 | | Test Mod | le: | Keep t | ransmitting | g |
|-----------------|--------------------------|--------------|------------|-------------------|---------|--------------|-------------------|---------|----------------------|-----|
| Mode | | Keeping | g Transmit | tting | | Test Voltage | | DC3.7V | | |
| Temperature | perature 24 deg. C, Humi | | | | Humidit | - | 56% RH | | | |
| Test Result: | | | Pass | | | Detector | | РК | | |
| 20dB Bandwidth | | 1.1 | 142MHz | | | | | | | |
| <u>k</u> | | Delta 1 | [T1] | | RBI | w 30 | kHz F | RF Att | 20 dB | |
| Ref Lvl | | | 0. | 85 dB | VB | W 100 | kHz | | | |
| 10 dBm | | 1 | .142284 | 157 MHz | SW | r 8.5 | ms l | Jnit | dBm | ı |
| 10 | | | | | | | 1 [T1] | -23 | 3.61 dBm | A |
| | | | | | | | | 2.40141 | 383 GHz | |
| 0 | | | | 2 | | A | 1 [T1] | (| 0.85 dB | |
| | | | | $\wedge \wedge /$ | 1 | ▼. | 2 [T1] | 1.14228 | 3457 MHz 3.82 dBm | |
| -10 | | | | | ĥΛ | | | 2.40199 | | |
| | | | | * | V _ | h n n | | | | |
| -20 -101 -23 | .82 dBm | | | | V | | 1 | | | 1RM |
| | | | | | | | V | | | |
| -30 | | | | | | | | | | |
| ~ | | <u> </u> | | | | | $\langle \rangle$ | | $\land \land$ | |
| -40 | | <i>م</i> ر ا | | | | | M | Am a | m \ | |
| | | | | | | | | | V | |
| -50 | | | | | | | | | | |
| | | | | | | | | | | |
| -60 | | | | | | | | | | |
| | | | | | | | | | | |
| -70 | | | | | | | | | | |
| | | | | | | | | | | |
| - 8 0 | | | | | | | | | | |
| | | | | | | | | | | |
| -90 | 2 400 67 | | | 200 | 1-11-1 | | | | | |
| Center 2 | 2.402 GP | 14 | | 300 | kHz/ | | | spa | an 3 MHz | |

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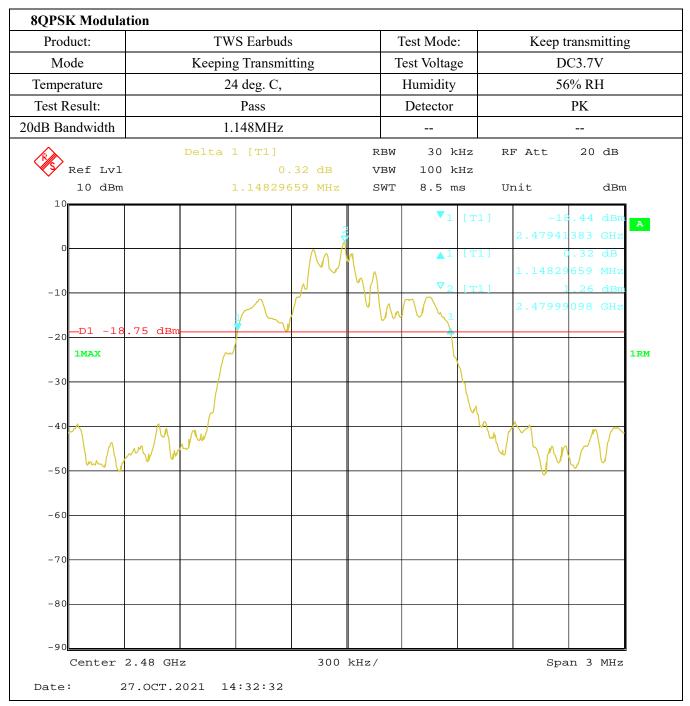


| Product: | | rbuds | | | Test Mod | e: | Keep t | ransmitting | g | |
|-------------------------|---------|----------|--------|--------|--------------|-------------------|-------------|--------------|---------------------------|-----|
| Mode | Ke | insmitt | ing | | Test Voltage | | DC3.7V | | | |
| Temperature | | 24 deg | | | | Humidit | y | 56% RH PK | | |
| Test Result: | | Pas | | | | Detector | | | | |
| 20dB Bandwidth | | 1.142N | ИНz | | | | | | | |
| | Del | ta 1 [] | [1] | | RB | W 30 | kHz R | F Att | 20 dB | |
| Ref Lvl | | | 0. | 80 dB | VB | W 100 | kHz | | | |
| 10 dBm | | 1.14 | 2284 | 57 MHz | SW | r 8.5 | ms U | nit | dBm | l |
| 10 | | | | | | ▼1 | [T1] | -19 | .76 dBm | |
| | | | | 4 | | | | 2.44041 | .383 GHz | A |
| 0 | | | | | <u> </u> | ▲ 1 | [T1] | C | .80 dB | |
| | | | | | ή. η | ▼ 2 | | 1.14228 | | |
| -10 | | | | 7 | \neg | × 2 | <u>[T1]</u> | 2.44099 | .07 dBm 098 GHz | |
| | | | \sum | | V V | $\sqrt{\sqrt{1}}$ | - | 2.44099 | 090 GHZ | |
| -20 D1 -20.0 |)7 dBm | Ť | ~ | | | | | | | |
| 1MAX | | \sim | | | | | V . | | | 1RM |
| -30 | | | | | | | | | | |
| | | | | | | | | h. | $\wedge \wedge$ | |
| -40 | \sim | / | | | | | - Var | \square | -AP | |
| | W | | | | | | 1 | | \checkmark \checkmark | |
| -50 | | | | | | | | | | |
| | | | | | | | | | | |
| -60 | | | | | | | | | | |
| | | | | | | | | | | |
| -70 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| -80 | | | | | | | | | | |
| | | | | | | | | | | |
| -90 Center 2. | 441 GHz | <u> </u> | | 300 | kHz/ | 1 | 1 | Spa | ın 3 MHz | 9 |

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10.0 FCC ID Label

FCC ID: 2AOKX-YM-T01

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

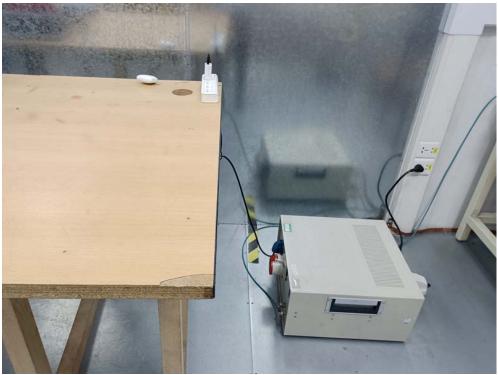
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11.0 Photo of testing

11.1 Conducted test View--

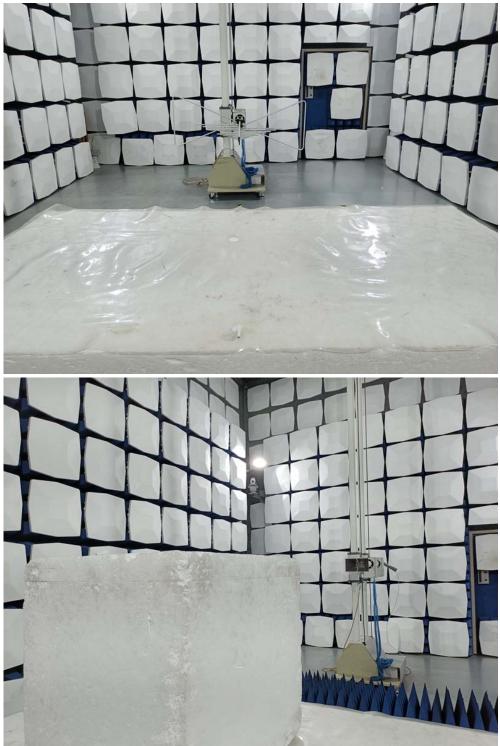


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Radiated emission test view



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11.2 Photographs – EUT

Outside View - charger base



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Outside View - charger base



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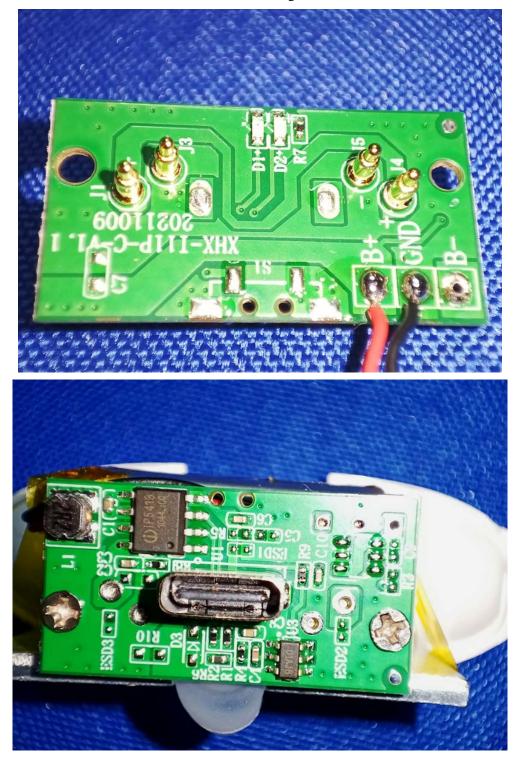
Outside View - charger base



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Inside View - charger base



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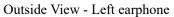
Inside View - charger base

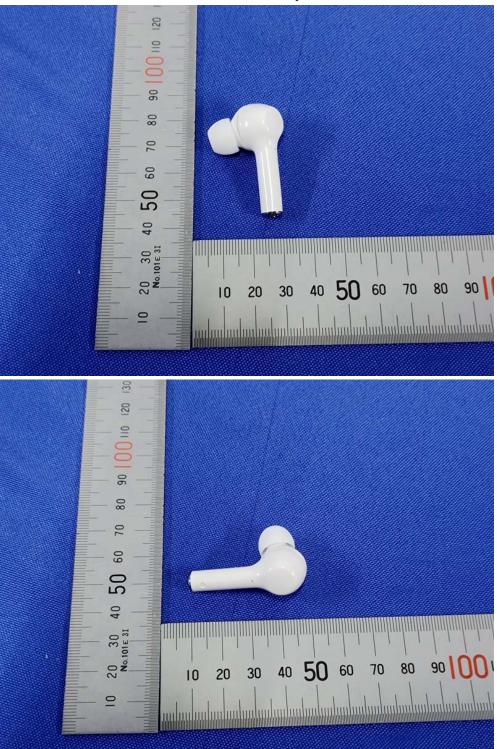


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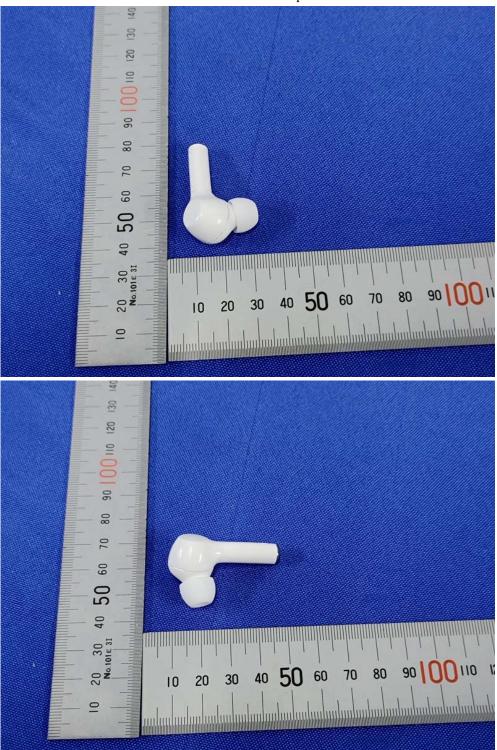


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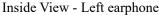
Outside View - Left earphone

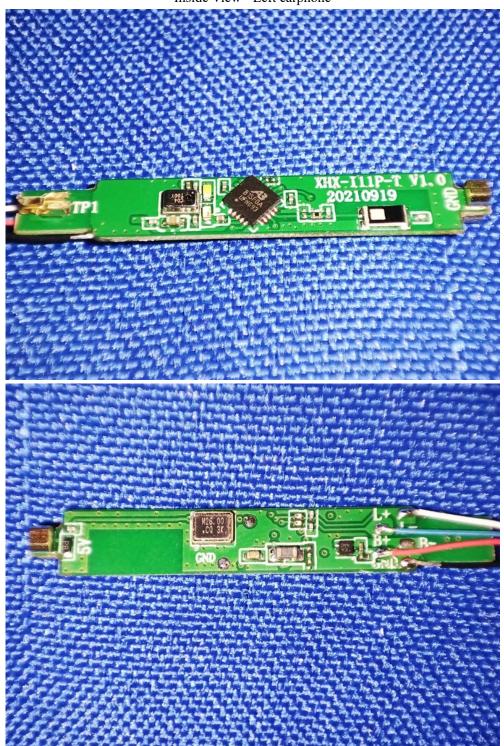


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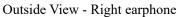


Inside View - Left earphone



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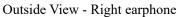


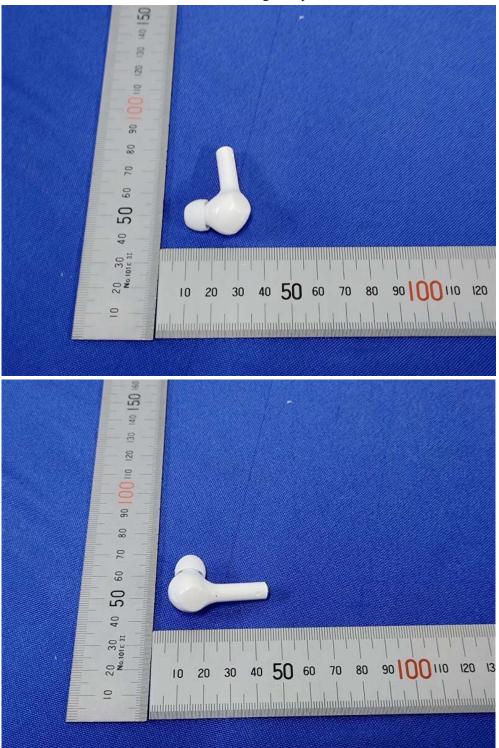


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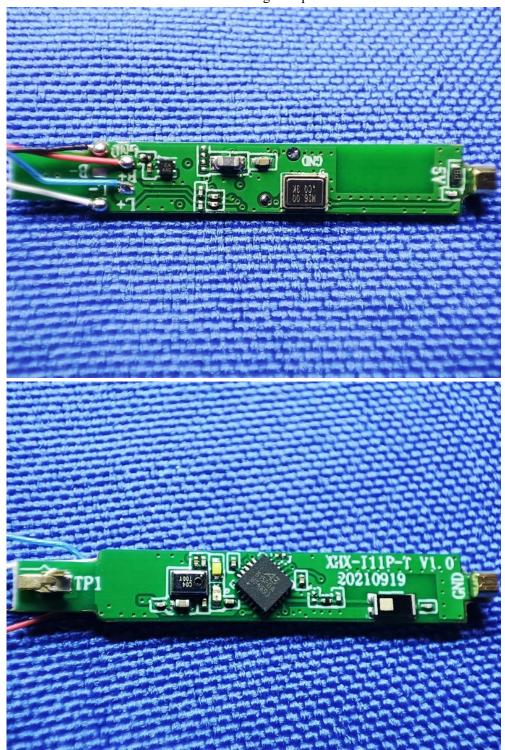


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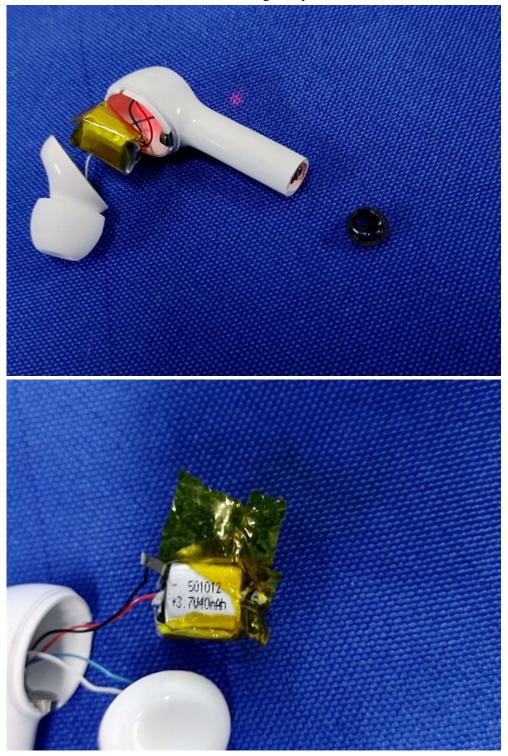
Inside View - Right earphone



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Inside View - Right earphone



--End of the report--

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