

Applicant: Eastern Times Technology Co.,Ltd

Product: WIRED+2.4G+BT GAMING HEADSET

Model No.: H868, ET-9172, H868W

Trademark: REDRAGON

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 &FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry long

Terry Tang

Manager

Dated: May 20, 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

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Date: 2024-05-20



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: 2024-05-20



Test Report Conclusion

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

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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: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,

Guangdong, China.

Telephone: -Fax: --

1.3 Description of EUT

Product: WIRED+2.4G+BT GAMING HEADSET

Manufacturer: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,

Dongguan City, Guangdong, China.

Trademark: REDRAGON

Additional Trademark: N/A Model Number: H868

Additional Model Name ET-9172, H868W

Hardware Version: ZS928 _RX-RTL _V1.2

Software Version: H868 _1822 _V1.0-bf9749ac8309dc37700fe037a069584b.bin

Serial No.: RDMH8682024042500001

Rating: DC5V, 350mA

Battery: DC3.7V, 800mAh Li-ion battery
Modulation Type: GFSK (Bluetooth Low Energy)

Operation Frequency: 2402-2480MHz

Channel Separate: 2MHz Channel Number: 40

Antenna Designation Chip antenna with gain 3.49dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2024-04-03 to 2024-05-20

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: Terry Tang

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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 | 2023-07-14 | 2024-07-13 |
| LISN | R&S | EZH3-Z5 | 100294 | 2023-07-14 | 2024-07-13 |
| LISN | R&S | EZH3-Z5 | 100253 | 2023-07-14 | 2024-07-13 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2023-07-14 | 2024-07-13 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2022-07-18 | 2025-07-17 |
| Spectrum | R&S | FSIQ26 | 100292 | 2023-07-14 | 2024-07-13 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2022-07-18 | 2025-07-17 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2022-07-18 | 2024-07-17 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2023-07-14 | 2024-07-13 |
| Power sensor | Anritsu | MA2491A | 32263 | 2023-07-14 | 2024-07-13 |
| 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 | 2023-07-14 | 2024-07-13 |
| EMI Test Receiver | RS | ESCS 30 | 834115/006 | 2023-07-14 | 2024-07-13 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2023-07-14 | 2024-07-13 |
| Spectrum | RS | FSP | 1164.4391.38 | 2023-07-14 | 2024-07-13 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8M/FA | - | 2023-07-14 | 2024-07-13 |
| RF Cable | Zhengdi | 7m | | 2023-07-14 | 2024-07-13 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2023-07-14 | 2024-07-13 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2023-07-14 | 2024-07-13 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2023-07-14 | 2024-07-13 |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2023-07-14 | 2024-07-13 |
| LISN | R&S | EZH3-Z5 | 100294 | 2023-07-14 | 2024-07-13 |

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 h | as been teste | d according to | the following | specifications: |
|-----------|---------------|----------------|---------------|-----------------|
| | | | | |

| Standard | Test Type | Result | Notes |
|---|-------------------------------------|--------|----------|
| FCC Part 15, Paragraph 15.203 | Antenna Requirement | Pass | Complies |
| FCC Part 15, Paragraph 15.207 | Conducted Emission Test | Pass | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit | Field Strength of Fundamental | Pass | Complies |
| FCC Part 15, Paragraph 15.209 | Radiated Emission Test | Pass | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(d) Limit | Band Edge Test | Pass | Complies |

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

4.0 EUT Modification

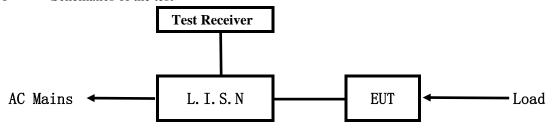
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Date: 2024-05-20



5. Power Line Conducted Emission Test

5.1 Schematics of the test

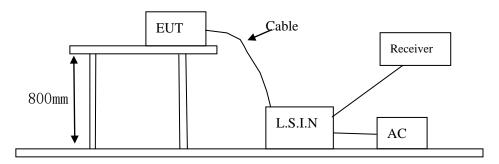


EUT: Equipment Under Test

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.

40 channels are provided to the EUT

A. EUT

| Device | Manufacturer | Model | FCC ID |
|----------------------|--------------------|-----------------------|--------------|
| WIRED+2.4G+BT GAMING | Eastern Times | H868, ET-9172, H868W | TUVET-9172A |
| HEADSET | Technology Co.,Ltd | По00, Е1-91/2, По00 W | 10 VE1-91/2A |

B. Internal Device

| | | 3 | |
|--------|--------------|-------|------------|
| Device | Manufacturer | Model | FCC ID/DOC |

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| N/A | 27/4 | | |
|-----|------|--|--|
| | 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 ~ 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

Date: 2024-05-20



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

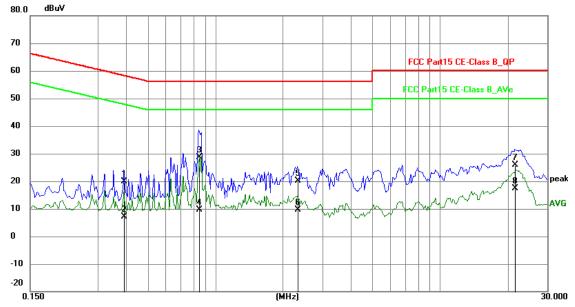
EUT Operating Environment

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 | 0.3918 | 10.02 | 9.76 | 19.78 | 58.03 | -38.25 | QP | Р |
| 2 | 0.3918 | -2.54 | 9.76 | 7.22 | 48.03 | -40.81 | AVG | Р |
| 3 | 0.8442 | 18.95 | 9.78 | 28.73 | 56.00 | -27.27 | QP | Р |
| 4 | 0.8442 | -0.16 | 9.78 | 9.62 | 46.00 | -36.38 | AVG | Р |
| 5 | 2.3262 | 10.20 | 9.81 | 20.01 | 56.00 | -35.99 | QP | Р |
| 6 | 2.3262 | -0.27 | 9.81 | 9.54 | 46.00 | -36.46 | AVG | Р |
| 7 | 21.5757 | 14.98 | 10.78 | 25.76 | 60.00 | -34.24 | QP | Р |
| 8 | 21.5757 | 6.69 | 10.78 | 17.47 | 50.00 | -32.53 | AVG | Р |

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

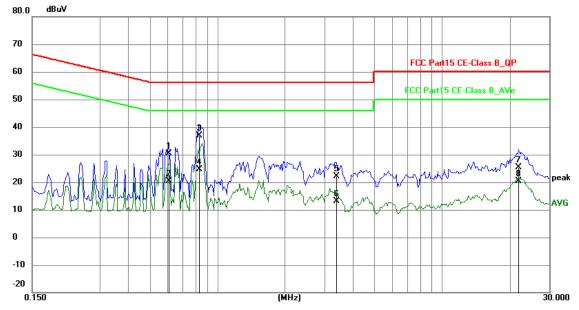
EUT Operating Environment

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 | 0.6063 | 20.48 | 9.78 | 30.26 | 56.00 | -25.74 | QP | Р |
| 2 | 0.6063 | 10.70 | 9.78 | 20.48 | 46.00 | -25.52 | AVG | Р |
| 3 | 0.8286 | 26.98 | 9.78 | 36.76 | 56.00 | -19.24 | QP | Р |
| 4 | 0.8286 | 14.90 | 9.78 | 24.68 | 46.00 | -21.32 | AVG | Р |
| 5 | 3.3978 | 12.20 | 9.86 | 22.06 | 56.00 | -33.94 | QP | Р |
| 6 | 3.3978 | 3.26 | 9.86 | 13.12 | 46.00 | -32.88 | AVG | Р |
| 7 | 21.9033 | 14.62 | 10.80 | 25.42 | 60.00 | -34.58 | QP | Р |
| 8 | 21.9033 | 9.68 | 10.80 | 20.48 | 50.00 | -29.52 | AVG | Р |

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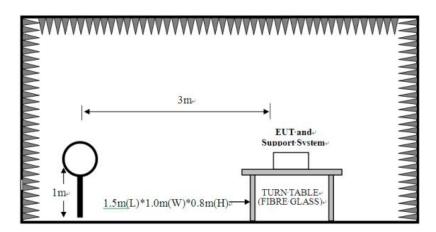


6 Radiated Emission Test

- 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 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



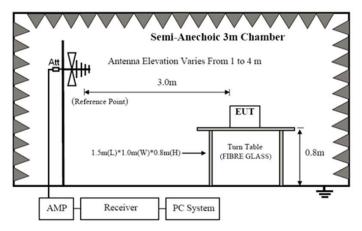
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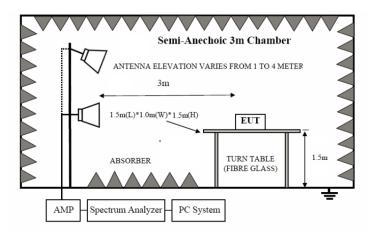
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For radiated emissions from 30MHz to1GHz



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 S | trength of Harmo | nics (3m) | |
|-----------------------|------------|--|-----------|-----------|------------------|-----------|--|
| (MHz) | mV/m | dBu | V/m | uV/m | dBuV/m | | |
| 2400-2483.5 | 50 | 50 94 (Average) 114 (Peak) 500 54 (Average) 74 (| | 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) |
|-----------------------|--------------|-----------------------------------|
| 0.009-0.490 | 3 | 20log(2400/F(kHz)) +40log (300/3) |
| 0.490-1.70 | 3 | 20log(24000/F(kHz)) +40log (30/3) |
| 1.705-30 | 3 | 69.5 |
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 6. Battery full charged during tests.

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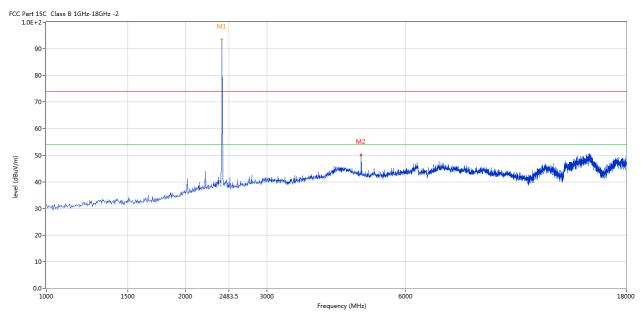
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6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



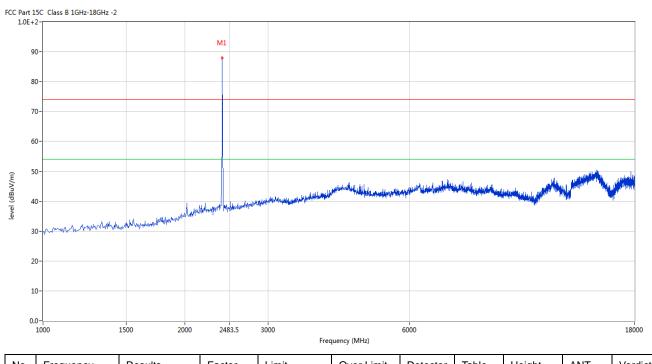
| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | (o) | (cm) | | |
| 1 | 2402 | 93.66 | -3.57 | 114.0 | -20.34 | Peak | 49.00 | 100 | Horizontal | Pass |
| 1* | 2402 | 84.81 | -3.57 | 94.0 | -9.19 | AV | 49.00 | 100 | Horizontal | Pass |
| 2 | 4802.799 | 50.19 | 3.12 | 74.0 | -23.81 | Peak | 38.00 | 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 | 87.99 | -3.57 | 114.0 | -26.01 | Peak | 1.00 | 100 | Vertical | Pass |

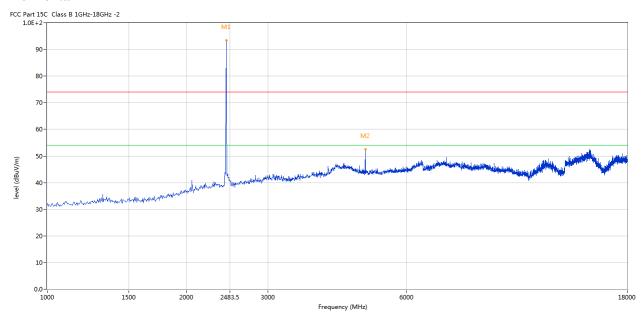
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal



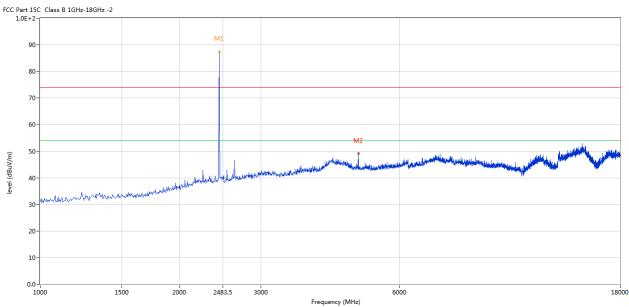
| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | (o) | (cm) | | |
| 1 | 2440 | 93.44 | -3.57 | 114.0 | -20.56 | Peak | 227.00 | 100 | Horizontal | Pass |
| 1** | 2440 | 84.63 | -3.57 | 94.0 | -9.37 | AV | 227.00 | 100 | Horizontal | Pass |
| 2 | 4879.280 | 52.56 | 3.20 | 74.0 | -21.44 | Peak | 227.00 | 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 | 2440 | 87.44 | -3.57 | 114.0 | -26.56 | Peak | 100.00 | 100 | Vertical | Pass |
| 2 | 4879.280 | 49.10 | 3.20 | 74.0 | -24.90 | Peak | 204.00 | 100 | Vertical | Pass |

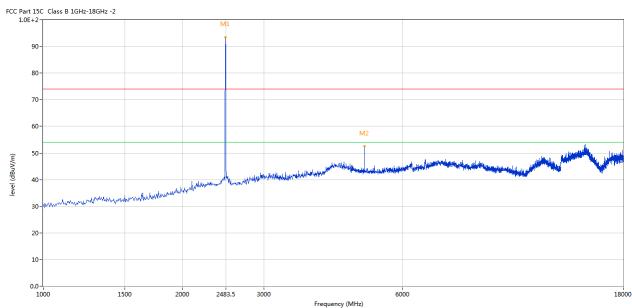
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | (o) | (cm) | | |
| 1 | 2480 | 93.40 | -3.57 | 114.0 | -20.60 | Peak | 47.00 | 100 | Horizontal | Pass |
| 1 | 2480 | 84.59 | -3.57 | 94.0 | -9.41 | AV | 47.00 | 100 | Horizontal | Pass |
| 2 | 4960.010 | 52.56 | 3.36 | 74.0 | -21.44 | Peak | 37.00 | 100 | Horizontal | Pass |

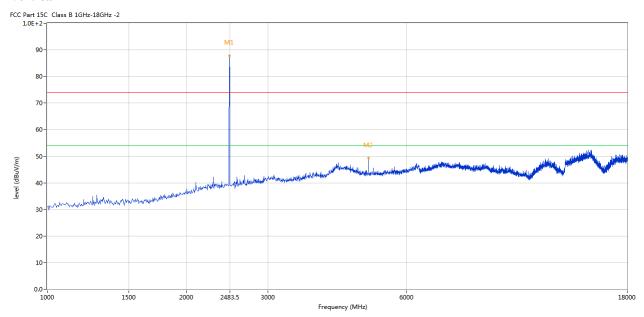
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Vertical



| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|----------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | (o) | (cm) | | |
| 1 | 2480 | 87.74 | -3.57 | 114.0 | -26.26 | Peak | 142.00 | 100 | Vertical | Pass |
| 2 | 4960.010 | 49.27 | 3.36 | 74.0 | -24.73 | Peak | 137.00 | 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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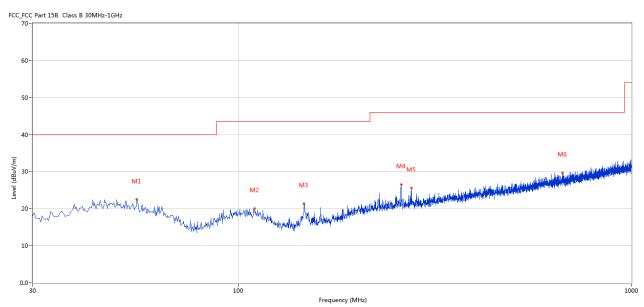


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency | Results | Factor | Limit | Margin | Detector | Table | Height | Antenna | Verdict |
|-----|-----------|----------|--------|----------|--------|----------|----------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | (Degree) | (cm) | | |
| 1 | 55.214 | 22.48 | -11.83 | 40.0 | 17.52 | Peak | 359.00 | 100 | Horizontal | Pass |
| 2 | 110.005 | 20.07 | -13.60 | 43.5 | 23.43 | Peak | 193.00 | 100 | Horizontal | Pass |
| 3 | 147.098 | 21.41 | -17.23 | 43.5 | 22.09 | Peak | 346.00 | 100 | Horizontal | Pass |
| 4 | 259.348 | 26.47 | -11.85 | 46.0 | 19.53 | Peak | 68.00 | 100 | Horizontal | Pass |
| 5 | 275.591 | 25.56 | -11.67 | 46.0 | 20.44 | Peak | 315.00 | 100 | Horizontal | Pass |
| 6 | 668.343 | 29.69 | -4.46 | 46.0 | 16.31 | Peak | 241.00 | 100 | Horizontal | Pass |

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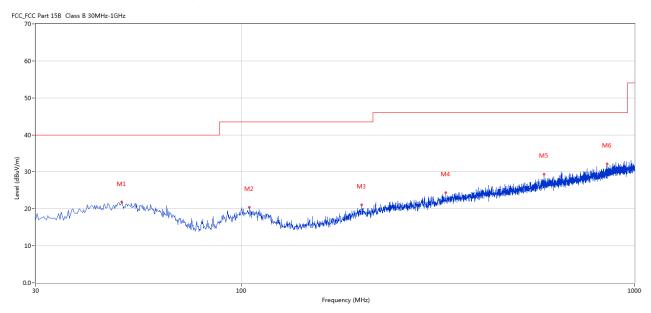


Radiated Emission In Vertical (30MHz----1000MHz)

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 | 49.638 | 21.82 | -11.32 | 40.0 | 18.18 | Peak | 257.00 | 100 | Vertical | Pass |
| 2 | 104.914 | 20.40 | -13.23 | 43.5 | 23.10 | Peak | 36.00 | 100 | Vertical | Pass |
| 3 | 202.617 | 21.11 | -13.40 | 43.5 | 22.39 | Peak | 350.00 | 100 | Vertical | Pass |
| 4 | 331.352 | 24.45 | -10.15 | 46.0 | 21.55 | Peak | 193.00 | 100 | Vertical | Pass |
| 5 | 589.550 | 29.35 | -5.09 | 46.0 | 16.65 | Peak | 177.00 | 100 | Vertical | Pass |
| 6 | 852.597 | 32.17 | -2.58 | 46.0 | 13.83 | Peak | 15.00 | 100 | Vertical | Pass |

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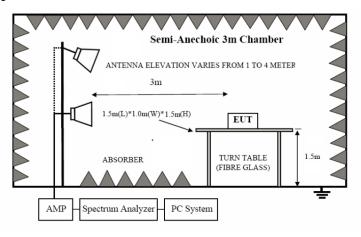


7. Band Edge

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.

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7.6 Test Result

| | Product: | | WIRED+2.4G+BT GAMING HEADSET | | | larity | | Horizontal | | |
|-------------|--|--|--|--|--|----------------------------|--|--------------------|-----------------------|-----------------------|
| | Mode | Kee | ping Trans | smitting | Test | Voltage | | DC3.7V | | |
| Te | emperature | ure 24 deg. 0 | | 24 deg. C, | | midity | | 56 | 5% RH | |
| Te | est Result: | | Pass | | | | | | | |
| 1.0E+ | 15C Class B 1GHz-18GHz -2- | -2 | | | | | | M4 M2 | M1 | |
| (Approx 10) | 40 | <u>liangan biyang ing indidung</u> | ng ti ghu tu ghi qiiroo ish istila talaa | econological designation and the contract of t | والمراجع وا | Maddiday | A CONTRACTOR OF THE PARTY OF TH | | 1 | Milwir |
| 1 | 40- | <u>lied vite de lippe en in de deute</u> | ng the grant agreement to held the below | icered described the confedence of the confedenc | Frequency (MHz) | M3 | | | | 2410 |
| 2 | 10 | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Frequency (MHz) Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | 1 |
| | 10- 20- 10- 2350 Frequency | | | Limit | Over Limit | Marakatan ji jada sacerith | | | ANT Horizontal | ı |
| | 10- 20- 10- 2350 Frequency (MHz) | (dBuV/m) | (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | (o) | (cm) | | Verdi |
| | 20- 10- 2350 Frequency (MHz) 2401.797 | (dBuV/m) 93.51 | (dB) -3.57 | Limit (dBuV/m) 74.0 | Over Limit (dB) 19.51 | Detector Peak | (o) 20.00 | (cm) | Horizontal | Verdid |
| 1 | Frequency (MHz) 2401.797 2400.000 | (dBuV/m) 93.51 66.25 | (dB) -3.57 -3.57 | Limit (dBuV/m) 74.0 74.0 | Over Limit (dB) 19.51 -7.75 | Detector Peak Peak | (o) 20.00 20.00 | (cm) 150 150 | Horizontal Horizontal | Verdid N/A Pass |

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| Product: WIRED | | t: WIRED+2.4G+BT GAMING HEADSET | | | Detector | | Vertical | | | | |
|---|---|--|--|--|--|-------------------------|--|-----------------|----------------------|--|--|
| | Mode | Kee | eping Trans | smitting | Test ` | Test Voltage | | DC3.7V | | | |
| Te | mperature | rature 24 deg. C, | | Hur | Humidity | | 56% | RH | | | |
| Te | est Result: | | Pass | | | | | _ | _ | | |
| Part 15C Class B 1GHz-18GHz -2 1.0E+2- | | -2 | | | | ı. | | | | | |
| | | | | | | | | | M1 | | |
| 9 | 90 - | | | | | | | | \wedge | | |
| 8 | 30 - | | | | | | | / | | | |
| 7 | 70- | | | | | | | | | | |
| 6 | 50 - | | | | | | | | | | |
| | | | | | | | | M4 /M2 | $\overline{}$ | | |
| | | | | | | | | | | | |
| | 50- | | | | | | , m | mer . | / | | |
| 2 | | ed and any of the special surprise and the spe | ay an de branda and a state of the particular | ing a grad of the december of the state of t | and the state of t | M: | s Historial designation of the | mey · | | - Annahar | |
| . 2 | | gelanderse Helligerijk seeme silviden besteelen. | المراجعة الم | ing a production and favorance a braces hing | સુરા સ્થિતિ કર્યા છે. અને કર્યું કર્યા કર્યા છે. અને કર્યા કર્યા કર્યા કર્યા કર્યા કર્યા કર્યા છે. આ કર્યા કર્ય | | . Walantin . | · | \ | - Christian | |
| . 4 | 10- | સુર્વિતાનો હતા કર્યો હતા. જિલ્લા કરતા કર્યો હતા કરતા કરતા કરતા કરતા કરતા કરતા કરતા કર | ne we distributed a vice of significant | ing good of hide and destruction a beautiful disqu | સ્તુલ્લામાં મુખ્યત્વે અને અને કર્યા છે. અને સ્તુલા માટે અને સ્તુલા માટે અને સ્તુલા માટે અને સ્તુલા માટે અને સ્ | | S. Harild annihilation of the | · | \ | - Marine | |
| 3 | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - | વર્ષ મહિનાનને કિંત કું કેલ્પોફ્સ અન્ય કહે કરી કર્યું છે. જો મહિનાનને કિંત કું કેલ્પોફ્સ અન્ય કહે કર્યું હતા. ત્યારે કર્યું કર્યું કર્યું કર્યું કર્યું કર્યું કર્યું કર | a, an altran i a die de spiepast _e us | inggand afkalan saddann, inn a khani blana | સુલ્લમને કોન્ડન કોન | | S. Waller and S. | · · | \ | - Maryan | |
| 3 | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - | સ્ત્રીતા હોતા કર્યો કર્યો કર્યો હોતા હોતા કર્યો હોતા કર્યો હોતા હોતા કર્યો હોતા કર્યો હોતા કર્યો હોતા કર્યો હોત ત્રાંતિ હોતા કર્યો હોતા હોતા હોતા હોતા હોતા હોતા હોતા હોત | ne are de breards a relat relat republicati | ineproved up had an interference success him to | ····································· | | and the second | | | Marijan, Mar | |
| 3 | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - | af halipped bled for in the constitution is not been as for the constitution in the constitution in the constitution is not been as for the constitution in the consti | ne on de Premier et de mente estat per la constitución de la constituc | | | | s vivati suutataivisiness | • | | | |
| 1 0 | 10 | Results | Factor | | Frequency (MHz) | Mary Antibotics Larle | Table | | ANT | 2 | |
| 3 | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - | | | | Frequency (MHz) | | Table | Height (cm) | ANT | 2 | |
| 1 0 | 10 | Results | Factor | Limit | Frequency (MHz) Over Limit | Mary Antibotics Larle | iki di sepitah kerimban | Height | ANT Vertical | 2 | |
| 1 1 0 No. | 10- 20- 20- 2350 Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Frequency (MHz) Over Limit (dB) | Detector | Table (o) | Height (cm) | | Verdi | |
| 1 1 No. | Frequency (MHz) 2401.767 | Results (dBuV/m) 87.35 | Factor (dB) -3.57 | Limit (dBuV/m) 74.0 | Frequency (MHz) Over Limit (dB) 13.35 | Detector Peak | Table (o) 131.00 | Height (cm) | Vertical | 2. Verdi | |
| 1 0 No. | Frequency (MHz) 2401.767 2400.000 | Results (dBuV/m) 87.35 60.96 | Factor (dB) -3.57 | Limit (dBuV/m) 74.0 | Over Limit (dB) 13.35 -13.05 | Detector Peak Peak | Table (o) 131.00 131.00 | Height (cm) 150 | Vertical Vertical | Verdi N/A Pass | |

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| Product: | WIRED+2.4G+BT GAMING HEADSET | Polarity | Horizontal |
|---|---------------------------------|--------------|------------|
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | | |
| FCC Part 15C Class B 1GHz-18GHz - 1.0E+2 90 80 70 60 50 30 20 10 - 2470 | 2 M1 M2 M2 2483.5 | | 2500 |

| No. | Frequency | Results | Factor | Limit | Over Limit | Detector | Table | Height | ANT | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-------|--------|------------|---------|
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dB) | | (o) | (cm) | | |
| 1 | 2479.995 | 90.26 | -3.57 | 74.0 | 16.26 | Peak | 15.00 | 100 | Horizontal | N/A |
| 2 | 2483.500 | 56.67 | -3.57 | 74.0 | -17.33 | Peak | 15.00 | 100 | Horizontal | Pass |
| 2** | 2483.500 | 41.49 | -3.57 | 54.0 | -12.51 | AV | 15.00 | 100 | Horizontal | Pass |
| • | | | • | | | • | • | • | | |

Frequency (MHz)

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|] | Product: | WIRE | De | Detector | | Vertical | | | | | | | | | |
|------------------------|--|--|-------------|---------------|--|--|--|--|---|--------------------------------|--|--|--|--|--|
| | Mode | Ke | eping Tran | nsmitting | Test | est Voltage DC3 | | | 3.7V | | | | | | |
| Te | mperature | | 24 deg. | C, | Hu | midity | | 56% RH | | | | | | | |
| Те | est Result: | | Pass | | | | | | | | | | | | |
| CC Part 1 1.0E+ | 15C Class B 1GHz-18GHz - | 2 | | | | | | | | | | | | | |
| q | 90- | | M1 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 8 | 30- | | | | | | | | | | | | | | |
| 7 | 70- | | -/ | | | | | | | | | | | | |
| | 50 - | | <i>f</i> | | | | | | | | | | | | |
| 6 | | | đ | M2 | | | | 50 | | | | | | | |
| | | | (| M2 | | | | | | | | | | | |
| | 50 | mades were an analysis of | | M2 | | | | | | | | | | | |
| (m/angn) lavas | 50- | | • | M2 | - Mandander Color Color | والمسافد والعراق والمراجع والم | inga sangan ng malipus king | n distribution of the same of | tang di dan pang pang pang pang pang pang pang pa | ra gladya olakira | | | | | |
| 5 | 50 | | | M2 | - wanter the section | والمراجعة | طعتید د <mark>ستا</mark> مه و در «خاره کاری | notineus-devial franceideacean | taga dha dha sha xuuga maraga tala k | washinish | | | | | |
| 5 4 4 3 3 | 50- | and the second second | • | M2 | and the second section of the | المراجعة | dağın dağını gerilmişti | n ida ku da da ka ka ka da | ng dipakan panganak apidah | neas <mark>tan</mark> hathain, | | | | | |
| (III/Anggn) 44 | 10-minder having and properly the second | and the second second | | M2 | and the section of the sections of the section of the sec | મીજાત તુમ્મે જ તુમ છે. જો અપનો છે | ingere <mark>der, proportion</mark> te | nytten des det polyten hyddina one | der de stele prograde de | ne spindentein. | | | | | |
| 3 2 2 1 0. | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - | | | | and an incident contract of the contract of th | diservicio de la mestalia | dasproteinfalt, groundellen filst | nedinities designation players designation | ng dy de tribus sung red ng éth à | | | | | | |
| (W/nnap) jayai 3 2 2 1 | 10 | and a second design of the sec | | 2483.5 | equency (MHz) | विकास कृष्टिक स्थापन के क्षेत्र का व्यवस्था के | despectadore, procesión de la constitución de la co | nutter this state of the subsection of the subse | ng di adipaka pangan dagahi, | 2500 | | | | | |
| (m/nngp) 44 33 2 | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - | Results | Factor | 2483.5 | | Detector | Table | Height | ANT | 2500 | | | | | |
| (W/Angp) 44 3 2 1 | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - | Results (dBuV/m) | Factor (dB) | 2483.5 Fre | equency (MHz) | | | | | 2500 | | | | | |
| (W/Angp) 44 3 2 1 | 50 | | | 2483.5 Fre | equency (MHz) Over Limit | | Table | Height | | | | | | | |

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

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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 3.49dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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| 9.0 20dB Bandwidt | | | | | | _ | ** | | |
|-------------------|------------------------------|----------------|---------|----------|--------------|---------------|-------------------|----------|--------|
| Product: | WIRED+2.4G+BT GAMING HEADSET | | | | Test Mo | | Keep transmitting | | |
| Mode | Keeping Transmitting | | | | Test Voltage | | DC3.7V | | |
| Temperature | 24 deg. C, Pass | | | | Humidi | | 56% RH | | |
| Test Result: | | | | | Detector | | PK | | |
| 20dB Bandwidth | | 1.232M | Hz | | | | | | |
| F | ndB 20.00 dB VBW | | | RBW | 100 k | Hz | RF Att | 20 dB | |
| Ref Lvl | | | | | | Hz | | | |
| 10 dBm | BW | 1.23246 | 493 MHz | SWT | 5 m | ıs | Unit | dBr | n _ |
| | | | | 1 | ▼1 | [T1] | | 2.40 dBm | n A |
| 0 | | | | <u> </u> | | | 2.4020 | 2705 GHz | |
| | | , | / | | ndi | | 2 | 0.00 dB | 1 |
| | | | | | BW | l [T1] | 1.2324 | 6493 MHz | |
| -10 | | | | | 1 | . [++] | 2.4014 | | |
| | | 2 1 | | | | ▼T2▼[T1] -17. | | | n |
| -20 | | - / | | | | 1 | 2.4026 | 4028 GHz | 5 |
| 1MAX | | f | | | | | | | 1MA |
| -30 | | <i>f</i> | | | | | wh | | - |
| -40 | | | | | | | 2 | V. | |
| -40 May May May | | | | | | | | Year | |
| -50 | | | | | | | | | 1 |
| -60 | | | | | | | | | |
| | | | | | | | | | |
| -70 | | | | | | | | | 1 |
| | | | | | | | | | |
| -80 | | | | | | | | | 1 |
| -90 | | | | | | | | |] |
| Center 2. | 402 GHz | | 300 | kHz/ | Span 3 MHz | | | z | |
| Date: 18 | .APR.2024 | 17:59:36 | | | | | | | |

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| Product: | WIRED+2.4C | S+BT GAMING | HEADSET | Test Mode | : | Keep transmitting | | |
|----------------|------------|------------------|----------|----------------|---------|-------------------|---------------|--|
| Mode | Kee | ping Transmittin | ıg | Test Voltage | е | DC3.7 | V | |
| Temperature | | 24 deg. C, | | Humidity | | 56% RH PK | | |
| Test Result: | | Pass | | Detector | | | | |
| 20dB Bandwidth | | 1.226MHz | | | | | | |
| F. | Mark | er 1 [T1 ndE | 3] R | BW 100 } | HZ RF | Att 2 | 0 dB | |
| Ref Lvl | ndB | 20.00 | | | Hz | | | |
| 10 dBm | BW | 1.22645291 | . MHz S | WT 5 n | ns Un | it | dBm | |
| | | | 1 | ▼1 | [T1] | 4.0 | 2 dBm | |
| 0 | | | ~ | | : | 2.4400270 | 5 GHz | |
| | | | | ndl BW | 3 | 20.0 1.2264529 | 0 dB 1 MHz | |
| -10 | | | | W _T | 1 [T1] | | 0 dBm | |
| | | 24 | | | т2 | 2.4394138 | 3 GHz | |
| -20 | | X | | VΤ | 2 ([T1] | -15.8 | 9 dBm | |
| 1MAX | | <i>f</i> | | | | 2.4406402 | 8 GHz 1MA | |
| -30 | A MILLO | [*] | | | home | M | | |
| | | | | | | Y | | |
| -40 | | | | | | 94 | War | |
| -50 | | | | | | | | |
| -60 | | | | | | | | |
| -70 | | | | | | | | |
| -80 | | | | | | | | |
| -90 | | | | | | | | |
| Center 2 | .44 GHz | | 300 kHz/ | | | Span | 3 MHz | |
| Date: 18 | 3.APR.2024 | 18:01:01 | | | | | | |

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Report No.: TW2404074-02E



| Product: | WIRED+ | -2.4G+B | T GAMIN | IG HEAD | SET | Т | est Mode: | | Keep transmitting | | |
|-----------------|----------|---------|-----------|---------|------|----------|-------------|-------|-------------------|--|-----|
| Mode | | Keeping | g Transmi | tting | | Te | st Voltage | ; | DC3.7V | | |
| Temperature | | 24 | 4 deg. C, | | | Humidity | | | 56% RH | | |
| Test Result: | | | Pass | | |] | Detector | | PK | | |
| 20dB Bandwidth | 1.226MHz | | | | | | | | | | |
| (E) | М | larker | 1 [T1 r | ndB] | R | BW | 100 k | Hz Rl | F Att | 20 dB | |
| Ref Lvl | | .dB | | 00 dB | | BW | | Ηz | | | |
| 10 dBm | В | W 1 | .226452 | 291 MHz | S | WT | 5 m | s Uı | nit | dBm | |
| 10 | | | | | 1 | | ▼1 | [T1] | 4 | .54 dBm | A |
| 0 | | | | \sim | ~ | ~ | \ \ \ | | 2.48003 | 307 GHz | |
| | | | | | | | ndB | 5 | 20 1.22645 | .00 dB | |
| 1.0 | | | | | | | V E1 | | -15 | 291 MHz | |
| -10 | | 7 | 1/ | | | | 1 | Т2 | 2.47941 | 383 GHz | |
| | | | 7 | | | | ▽ ±2 | [T1] | -15 | .32 dBm | |
| -20 | | | | | | | | | 2.48064 | 028 GHz | 1MA |
| | | market. | | | | | | h | - Land | | |
| -30 | | | | | | | | | | د | |
| -40 | | | | | | | | | | A Variation of the last of the | |
| -50 | | | | | | | | | | | |
| -60 | | | | | | | | | | | |
| -70 | | | | | | | | | | | |
| | | | | | | | | | | | |
| -80 | | | | | | | | | | | |
| -90 Center 2 | .48 GHz | | | 300 | kHz/ | | | | Spa | n 3 MHz | |
| Date: 18 | | 24 18 | :01:48 | | _, | | | | 2 13 00 | | |

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10.0 FCC ID Label

FCC ID: TUVET-9172A

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

Mark Location:



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11.0 Photo of testing

11.1 Conducted test View--



Date: 2024-05-20



Radiated emission test view



Photographs - EUT

Please refer test report TW2404074-01E

--End of the report--

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

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