

| Report No.:         | TW2208121-01E  |
|---------------------|--|
| File reference No.: | 2022-08-29   |
| Applicant:          | Eastern Times Technology Co.,Ltd   |
| Product:            | WIRED/2.4G/BT MECHANICAL GAMING KEYBOARD   |
| Model No.:          | K632RGB-PRO, ET-8805, K632W-RGB-PRO,<br>K632NB-RGB-PRO   |
| 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 Tong          |  |
| Terry Tang          |  |

Terry Tang

Manager

Dated:

August 29, 2022

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

# SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



# **Special Statement**:

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

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

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

# CNAS-LAB Code: L2292

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

# FCC-Registration No.: 744189

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

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

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

# A2LA (Certification Number:5013.01)

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

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### 1.0 General Details

1.1 Test Lab Details

Name :SHENZHEN TIMEWAY TESTING LABORATORIES.Address:Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le<br/>Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistrationvumber: 744189For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant:Eastern Times Technology Co.,LtdAddress:Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,<br/>Guangdong, China.Telephone:--Fax:--

### 1.3 Description of EUT

| Product:                    | WIRED/2.4G/BT MECHANICAL GAMING KEYBOARD                                   |
|-----------------------------|--|
| Manufacturer:               | Eastern Times Technology Co.,Ltd   |
| Address:                    | Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,       |
|                             | Dongguan City, Guangdong, China.   |
| Trademark:                  | REDRAGON   |
| Model Number:               | K632RGB-PRO  |
| Additional Model Name       | ET-8805, K632W-RGB-PRO, K632NB-RGB-PRO                                     |
| Rating:                     | DC5.0V, 700mA or DC3.7V, 250mA   |
| Battery                     | DC3.7V, 1600mAh Li-ion battery   |
| Modulation Type:            | GFSK   |
| <b>Operation Frequency:</b> | 2403-2480MHz   |
| Channel Number:             | 16   |
| Channel List (Unit: MHz):   | 2403, 2424, 2441, 2461, 2414, 2435, 2450, 2470, 2409, 2429, 2455, 2475,    |
|                             | 2419, 2445, 2465, 2480   |
| Hardware Version:           | 8805-A TX V1 US  |
| Software Version:           | 3CB4   |
| Serial No.:                 | RDK632RGB-PRO22071500502   |
| Antenna Designation         | PCB antenna with gain 2.34dBi maximum (Get from the antenna specification) |

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- 1.4 Submitted Sample: 2 Samples
- 1.5 Test Duration 2022-08-06 to 2022-08-29
- 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

Andy -Xing

The sample tested by

Print Name: Andy Xing

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| 2.0 Test Equipment |              |                  |              |              |            |
|--------------------|--------------|------------------|--------------|--------------|------------|
| Instrument Type    | Manufacturer | Model            | Serial No.   | Date of Cal. | Due Date   |
| ESPI Test Receiver | R&S          | ESPI 3           | 100379       | 2022-07-15   | 2023-07-14 |
| LISN               | R&S          | EZH3-Z5          | 100294       | 2022-07-18   | 2023-07-17 |
| LISN               | R&S          | EZH3-Z5          | 100253       | 2022-07-18   | 2023-07-17 |
| Impuls-Begrenzer   | R&S          | ESH3-Z2          | 100281       | 2022-07-18   | 2023-07-17 |
| Loop Antenna       | EMCO         | 6507             | 00078608     | 2022-07-18   | 2025-07-17 |
| Spectrum           | R&S          | FSIQ26           | 100292       | 2022-07-15   | 2023-07-14 |
| Horn Antenna       | A-INFO       | LB-180400-KF     | J211060660   | 2022-07-18   | 2025-07-17 |
| Horn Antenna       | R&S          | BBHA 9120D       | 9120D-631    | 2022-07-18   | 2024-07-17 |
| Power meter        | Anritsu      | ML2487A          | 6K00003613   | 2022-07-18   | 2023-07-17 |
| Power sensor       | Anritsu      | MA2491A          | 32263        | 2022-07-18   | 2023-07-17 |
| Bilog Antenna      | Schwarebeck  | VULB9163         | 9163/340     | 2022-07-18   | 2025-07-17 |
| 9*6*6 Anechoic     |              |                  | N/A          | 2022-07-26   | 2025-07-25 |
| EMI Test Receiver  | RS           | ESVB             | 826156/011   | 2022-07-15   | 2023-07-14 |
| EMI Test Receiver  | RS           | ESCS 30          | 834115/006   | 2022-07-15   | 2023-07-14 |
| Spectrum           | HP/Agilent   | E4407B           | MY50441392   | 2022-07-15   | 2023-07-14 |
| Spectrum           | RS           | FSP              | 1164.4391.38 | 2022-07-15   | 2023-07-14 |
| RF Cable           | Zhengdi      | ZT26-NJ-NJ-8M/FA |              | 2022-07-15   | 2023-07-14 |
| RF Cable           | Zhengdi      | 7m               |              | 2022-07-15   | 2023-07-14 |
| Pre-Amplifier      | Schwarebeck  | BBV9743          | #218         | 2022-07-15   | 2023-07-14 |
| Pre-Amplifier      | HP/Agilent   | 8449B            | 3008A00160   | 2022-07-15   | 2023-07-14 |
| LISN               | SCHAFFNER    | NNB42            | 00012        | 2022-08-18   | 2023-07-17 |

### 2.2 Automation Test Software

For Conducted Emission Test

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

### For Radiated Emissions

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

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### **3.0** Technical Details

### 3.1 Summary of test results

| The EUT has been tested according to the following specifications: |                                     |        |          |  |  |
|--|-------------------------------------|--------|----------|--|--|
| Standard   | Test Type                           | Result | Notes    |  |  |
| FCC Part 15, Paragraph 15.203                                      | Antenna<br>Requirement              | Pass   | Complies |  |  |
| FCC Part 15, Paragraph 15.207                                      | Conducted<br>Emission Test          | Pass   | Complies |  |  |
| FCC Part 15 Subpart C Paragraph 15.249(a)<br>& 15.249(b) Limit     | Field Strength<br>of<br>Fundamental | Pass   | Complies |  |  |
| FCC Part 15, Paragraph 15.209 and RSS-210                          | Radiated<br>Emission Test           | Pass   | Complies |  |  |
| FCC Part 15 Subpart C Paragraph 15.249(d)<br>Limit                 | Band Edge<br>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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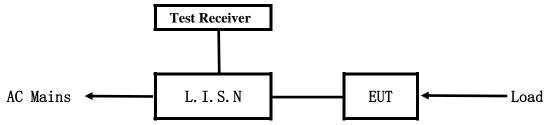
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### 5. Power Line Conducted Emission Test

5.1 Schematics of the test

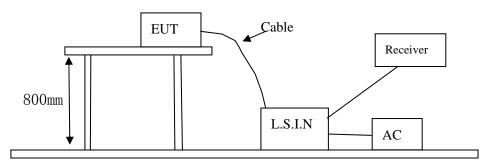


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. 16 channels are provided to the EUT

### A. EUT

| Device          | Manufacturer                                  | Model                 | FCC ID      |
|-----------------|---|-----------------------|-------------|
| WIRED/2.4G/BT   | ECHANICAL Eastern Times<br>Technology Co.,Ltd | K632RGB-PRO, ET-8805, |             |
| MECHANICAL      |   | K632W-RGB-PRO,        | TUVET-8805A |
| GAMING KEYBOARD |   | K632NB-RGB-PRO        |             |

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### B. Internal Device

| р. | Internal Beviee |              |       |            |
|----|-----------------|--------------|-------|------------|
|    | 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 C63.4 -2014
- 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 | Av rage 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:

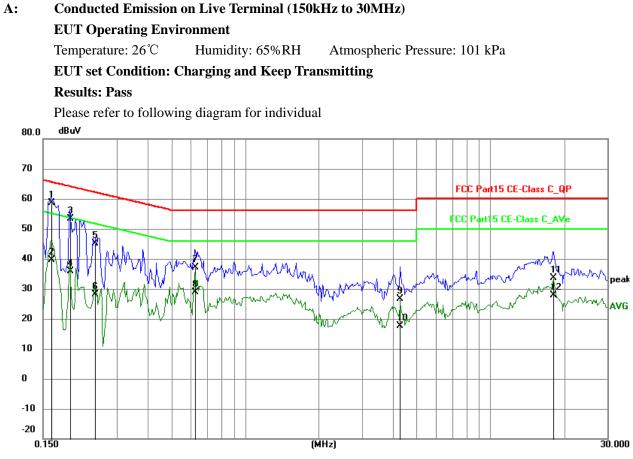
Pass

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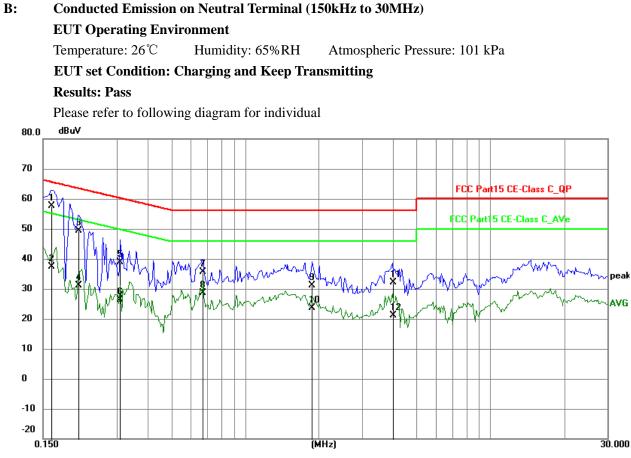


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Level<br>(dBuV)      | Limit<br>(dBuV) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|----------------------|-----------------|----------------|----------|-----|
| 1   | 0.1617             | 48.84             | 9.78           | 58.62                | 65.38           | -6.76          | QP       | Ρ   |
| 2   | 0.1617             | 29.75             | 9.78           | 39.53                | 55.38           | -15.85         | AVG      | Ρ   |
| 3   | 0.1929             | 43.54             | 9.75           | 53.29                | 63.91           | -10.62         | QP       | Ρ   |
| 4   | 0.1929             | 26.17             | 9.75           | 35.92                | 53.91           | -17.99         | AVG      | Ρ   |
| 5   | 0.2436             | 35.36             | 9.75           | 45.11                | 61.97           | -16.86         | QP       | Ρ   |
| 6   | 0.2436             | 18.37             | 9.75           | 28.12                | 51.97           | -23.85         | AVG      | Ρ   |
| 7   | 0.6258             | 27.40             | 9.78           | 37.18                | 56.00           | -18.82         | QP       | Ρ   |
| 8   | 0.6258             | 19.00             | 9.78           | 28.78                | 46.00           | -17.22         | AVG      | Ρ   |
| 9   | 4.2870             | 16.66             | 9.90           | 26.56                | 56.00           | -29.44         | QP       | Ρ   |
| 10  | 4.2870             | 7.73              | 9.90           | 17.63                | 46.00           | -28.37         | AVG      | Ρ   |
| 11  | 18.0267            | 23.11             | 10.56          | 33. <mark>6</mark> 7 | 60.00           | -26.33         | QP       | Ρ   |
| 12  | 18.0267            | 17.41             | 10.56          | 27.97                | 50.00           | -22.03         | AVG      | Ρ   |

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| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1   | 0.1617             | 47.93             | 9.78           | 57.71           | 65.38           | -7.67          | QP       | Р   |
| 2   | 0.1617             | 27.64             | 9.78           | 37.42           | 55.38           | -17.96         | AVG      | Ρ   |
| 3   | 0.2085             | 39.68             | 9.75           | 49.43           | 63.26           | -13.83         | QP       | Ρ   |
| 4   | 0.2085             | 21.26             | 9.75           | 31.01           | 53.26           | -22.25         | AVG      | Ρ   |
| 5   | 0.3099             | 29.20             | 9.76           | 38.96           | 59.97           | -21.01         | QP       | Ρ   |
| 6   | 0.3099             | 16.51             | 9.76           | 26.27           | 49.97           | -23.70         | AVG      | Ρ   |
| 7   | 0.6687             | 25.78             | 9.78           | 35.56           | 56.00           | -20.44         | QP       | Ρ   |
| 8   | 0.6687             | 18.75             | 9.78           | 28.53           | 46.00           | -17.47         | AVG      | Ρ   |
| 9   | 1.8777             | 21.32             | 9.80           | 31.12           | 56.00           | -24.88         | QP       | Ρ   |
| 10  | 1.8777             | 13.91             | 9.80           | 23.71           | 46.00           | -22.29         | AVG      | Ρ   |
| 11  | 3.9906             | 22.20             | 9.89           | 32.09           | 56.00           | -23.91         | QP       | Ρ   |
| 12  | 3.9906             | 11.35             | 9.89           | 21.24           | 46.00           | -24.76         | AVG      | Ρ   |

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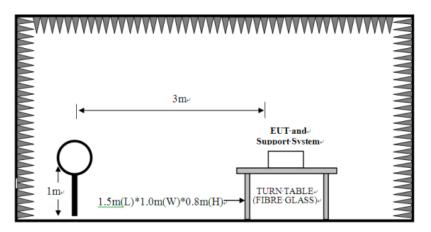


### 6 Radiated Emission Test

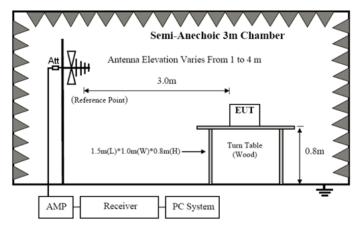
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 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



For radiated emissions from 30MHz to1GHz

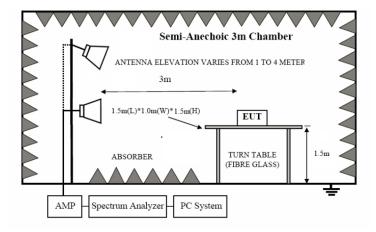


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For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

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

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

| Fundamental Frequency | Field Stre | ength of Fundame | ntal (3m)  | Field St | trength of Harmo | onics (3m) |
|-----------------------|------------|------------------|------------|----------|------------------|------------|
| (MHz)                 | mV/m       | dBu              | V/m        | uV/m     | dBu              | V/m        |
| 2400-2483.5           | 50         | 94 (Average)     | 114 (Peak) | 500      | 54 (Average)     | 74 (Peak)  |

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

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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

| 1                     | 1            | 8                                 |
|-----------------------|--------------|-----------------------------------|
| Frequency Range (MHz) | Distance (m) | Field strength (dB $\mu$ V/m)     |
| 0.009-0.490           | 3            | 20log(2400/F(kHz)) +40log (300/3) |
| 0.490-1.705           | 3            | 20log(24000/F(kHz)) +40log (30/3) |
| 1.705-30              | 3            | 69.5                              |
| 30-80                 | 3            | 40.0                              |
| 88-216                | 3            | 43.5                              |
| 216-960               | 3            | 46.0                              |
| Above 960             | 3            | 54.0                              |

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

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

5. 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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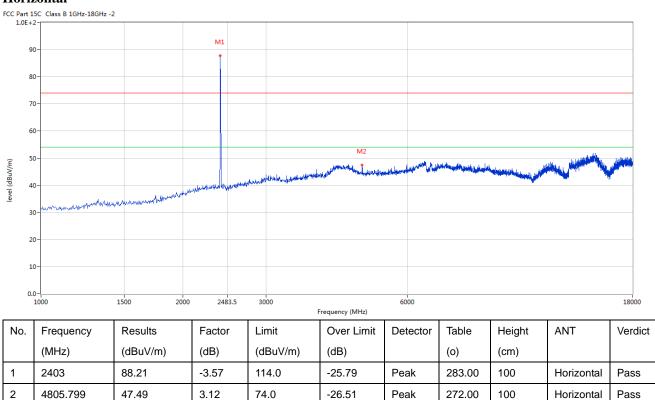
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# 6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2403MHz

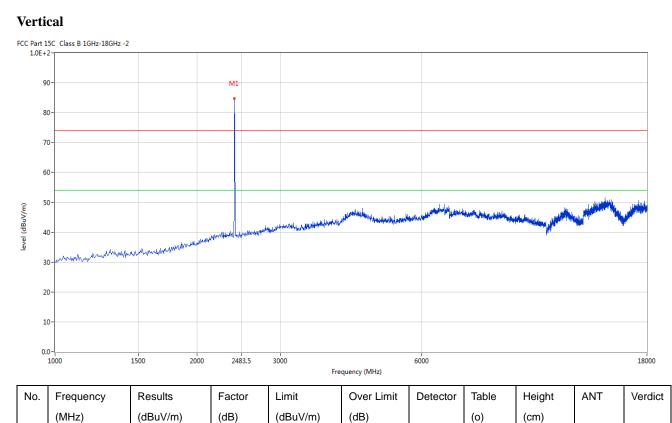
### Horizontal



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-29.26

Peak

302.00

100

Vertical

Pass

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

84.74

1

2403

-3.57

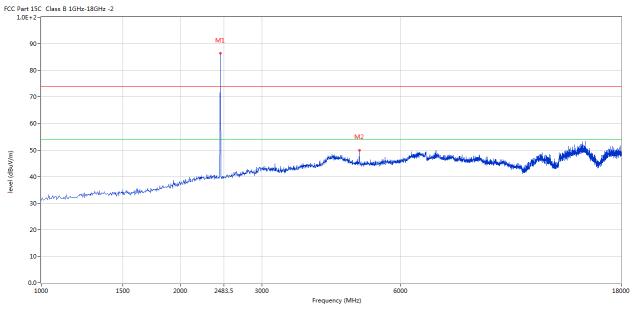
114.0

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

### Horizontal

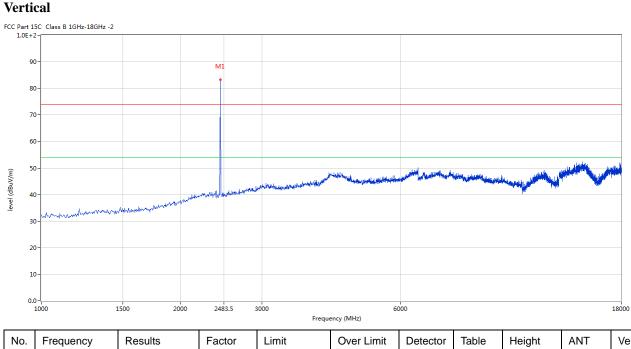


| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |            |         |
| 1   | 2441      | 86.36    | -3.57  | 114.0    | -27.64     | Peak     | 270.00 | 100    | Horizontal | Pass    |
| 2   | 4881.280  | 49.95    | 3.20   | 74.0     | -24.05     | Peak     | 115.00 | 100    | Horizontal | Pass    |

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| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)   | (cm)   |          |         |
| 1   | 2441      | 83.31    | -3.57  | 114.0    | -30.69     | Peak     | 1.00  | 100    | Vertical | Pass    |

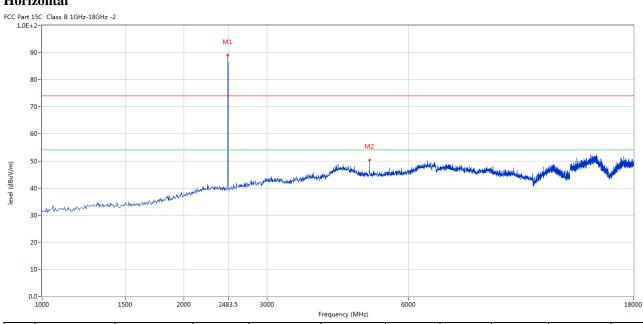
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### Please refer to the following test plots for details: High Channel-2480MHz

### Horizontal

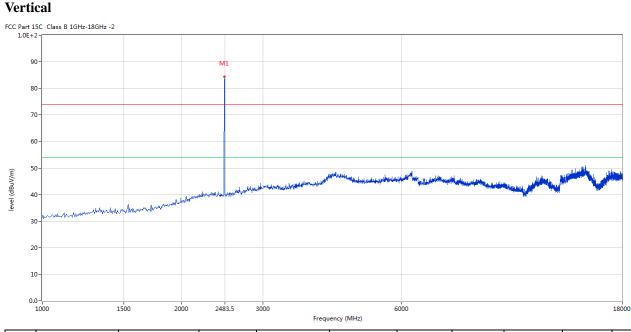


| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |            |         |
| 1   | 2480      | 88.92    | -3.57  | 114.0    | -25.08     | Peak     | 244.00 | 100    | Horizontal | Pass    |
| 2   | 4960.010  | 50.27    | 3.36   | 74.0     | -23.73     | Peak     | 244.00 | 100    | Horizontal | Pass    |

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| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |          |         |
| 1   | 2480      | 84.61    | -3.57  | 114.0    | -29.39     | Peak     | 360.00 | 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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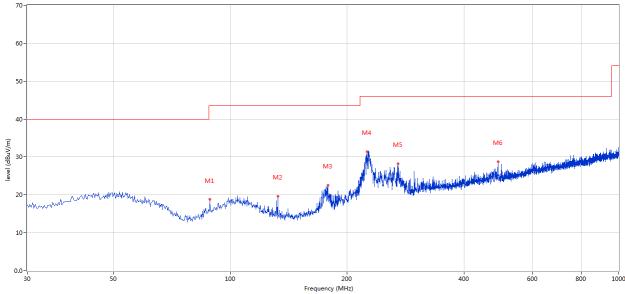
# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

### Results: Pass

Please refer to following diagram for individual

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



| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |            |         |
| 1   | 88.670    | 18.79    | -15.51 | 43.5     | -24.71     | Peak     | 360.00 | 200    | Horizontal | Pass    |
| 2   | 132.552   | 19.66    | -17.02 | 43.5     | -23.84     | Peak     | 360.00 | 200    | Horizontal | Pass    |
| 3   | 178.373   | 22.60    | -15.46 | 43.5     | -20.90     | Peak     | 85.00  | 100    | Horizontal | Pass    |
| 4   | 224.921   | 31.35    | -12.93 | 46.0     | -14.65     | Peak     | 360.00 | 200    | Horizontal | Pass    |
| 5   | 270.015   | 28.23    | -11.75 | 46.0     | -17.77     | Peak     | 266.00 | 100    | Horizontal | Pass    |
| 6   | 489.665   | 28.78    | -7.25  | 46.0     | -17.22     | Peak     | 86.00  | 200    | Horizontal | Pass    |

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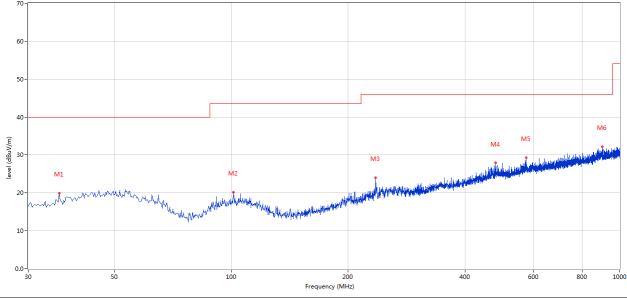
### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

### **Results:** Pass

Please refer to following diagram for individual

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



| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |          |         |
| 1   | 36.061    | 19.94    | -13.68 | 40.0     | -20.06     | Peak     | 12.00  | 200    | Vertical | Pass    |
| 2   | 101.277   | 20.22    | -13.45 | 43.5     | -23.28     | Peak     | 274.00 | 100    | Vertical | Pass    |
| 3   | 235.104   | 24.01    | -12.52 | 46.0     | -21.99     | Peak     | 342.00 | 200    | Vertical | Pass    |
| 4   | 478.998   | 27.89    | -7.46  | 46.0     | -18.11     | Peak     | 360.00 | 200    | Vertical | Pass    |
| 5   | 573.549   | 29.32    | -5.87  | 46.0     | -16.68     | Peak     | 360.00 | 200    | Vertical | Pass    |
| 6   | 900.357   | 32.21    | -1.88  | 46.0     | -13.79     | Peak     | 201.00 | 100    | Vertical | Pass    |

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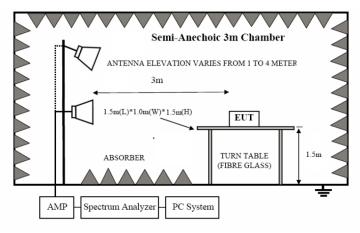


### 7. Band Edge

### 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:   |   | 2.4G/BT M<br>MING KE`   | IECHANICA<br>YBOARD   | AL .  | Polarity                         | y   |                       | Horizontal        |                       |
|--------------------|--|---|---|---|---|----------------------------------|---|-----------------------|-------------------|-----------------------|
|                    | Mode   | Ke  | eping Tran  | smitting  |   | Test Volta                       | age   |                       | DC3.7V            |                       |
| Te                 | mperature  |   | 24 deg.   | С,  |   | Humidit                          | ty  |                       | 56% RH            |                       |
| Te                 | est Result:  |   | Pass  |   |   |                                  |   |                       |                   |                       |
| C Part :<br>1.0E+  | 15C Class B 1GHz-18GHz   | -2  |   |   |   |                                  |   |                       |                   | _                     |
|                    |  |   |   |   |   |                                  |   |                       | M1                |                       |
| <u>c</u>           |  |   |   |   |   |                                  |   | (                     | why.              |                       |
| 8                  | 30 -   |   |   |   |   |                                  |   | /                     |                   |                       |
| 7                  | 70-  |   |   |   |   |                                  |   |                       |                   | _                     |
| 6                  | 50 -   |   |   |   |   |                                  |   |                       |                   |                       |
|                    |  |   |   |   |   |                                  |   |                       | <u> </u>          |                       |
|                    | 50-  |   |   |   |   |                                  |   |                       |                   |                       |
|                    |  |   |   |   |   | M3                               |   | M2                    | N.                |                       |
|                    |  | t af the second seco | ورون مر می ورون ورون و رون مر ورون و رون و رو | مر و مرور میروند.<br>مرد امار روانه و مرور میروند.<br>مرد امار روانه و مرد میروند.<br>مرد مرد مرد مرد مرد مرد مرد مرد مرد مرد | ang antiker part its out they reduce                                    |                                  | under sie engelige sigt warmen bie enge         | M2<br>*               |                   | Hele                  |
|                    | 10   | italilispendedustasiasiasiasiasiasiasiasiasiasiasiasiasia   | heihastelförnanden i förtörstör i lytgat  | internetic and the second states of the second states and the second states and the second states and the second              | an landa an la sa ta sa ta sa ta sa |                                  | uladosetharpeusantesta                          | M2<br>*               |                   |                       |
|                    | and in the second s | harlagendiðuskendetakin dökeders veðar  | hada erifimenten betrep alget   | unidense setter set                | รรร <sub>ุ</sub> โรงสร้างๆ (ค.ศ. 1974) (ค.ศ. 1985)<br>เกม               |                                  | ulentententententententen                       | M2<br>•               | <u> </u>          |                       |
|                    | 10 -<br>20 -   | ). Litizgen el de Standerske, direkter, wiser   | રેન્ડો કર પર્વે છે. જે કે   | ining token on the subject of   | n laite at the tig second   |                                  | whe de and an and an and a second second second | M2<br>•               | <b>`</b>          |                       |
| 3                  | 10 -   | Narligende utenstation, detentron of an   | મેન્દ્રો છે. રાગ્યું આ અને અને છે છે. પ્રેલ્ટ્સ<br>   | and an and an and an  |   |                                  |   | M2<br>•               |                   |                       |
| 3                  | 10 -<br>20 -   | Varilgenelikatooskenis, kinskossinger   | ter an  |   |   |                                  | uigatesettespera                                | M2<br>•               |                   | 2410                  |
| 2<br>2<br>1<br>0   | 0  | ·   |   | Fri   | equency (MHz)   | Service and Service and Services |   |                       |                   | r                     |
| 3                  | 00-<br>00-<br>2350<br>Frequency  | Results   | Factor  | Fre   | equency (MHz)   |                                  | Table   | Height                | ANT               | r                     |
| 2<br>2<br>1<br>0   | 0  | ·   | Factor<br>(dB)  | Fri   | equency (MHz)   | Service and Service and Services |   |                       |                   | Verdic                |
| 2<br>2<br>1<br>0   | 00-<br>00-<br>2350<br>Frequency  | Results   | Factor  | Fre   | equency (MHz)   | Service and Service and Services | Table   | Height                |                   | 2410<br>Verdic<br>N/A |
| 2<br>1<br>0<br>No. | 0-<br>0-<br>2250<br>Frequency<br>(MHz)   | Results<br>(dBuV/m)   | Factor<br>(dB)  | Fr<br>Limit<br>(dBuV/m)   | equency (MHz)<br>Over Limit<br>(dB)                                     | Detector                         | Table<br>(o)                                    | Height<br>(cm)        | ANT               | Verdic                |
| No.                | Frequency<br>(MHz)<br>2403.657   | Results<br>(dBuV/m)<br>87.58  | Factor<br>(dB)<br>-3.57   | Free<br>Limit<br>(dBuV/m)<br>74.0   | equency (MHz)<br>Over Limit<br>(dB)<br>13.58                            | Detector<br>Peak                 | Table<br>(0)<br>283.00                          | Height<br>(cm)<br>100 | ANT<br>Horizontal | Verdic<br>N/A         |

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| ]  | Product:   |                                       |   | MECHANIO<br>EYBOARD                         | CAL   | Detect                                 | or  |  | Vertical                               |                        |
|--|--|---------------------------------------|---|---|---|--|---|--|--|------------------------|
|  | Mode   | I                                     | Keeping Tr  | ansmitting                                  |   | Test Vol                               | tage  |  | DC3.7V                                 |                        |
| Te   | mperature  |                                       | 24 de   | g. C,                                       |   | Humid                                  | ity   |  | 56% RH                                 |                        |
| Te   | est Result:  |                                       | Pas   | SS  |   |  |   |  |  |                        |
| CC Part 1<br>1.0E+   | 15C Class B 1GHz-18GHz<br>2-   | -2                                    |   |   |   |  |   |  |  |                        |
| q  | 90 -   |                                       |   |   |   |  |   |  | M1                                     |                        |
|  |  |                                       |   |   |   |  |   | /                                      | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |                        |
| 8  | 30 -   |                                       |   |   |   |  |   | /                                      | <u>\</u>                               |                        |
| 7  | 70-  |                                       |   |   |   |  |   | ////////////////////////////////////// | <u> </u>                               |                        |
| 6  | 50 -   |                                       |   |   |   |  |   |  | <b>\</b>                               |                        |
|  |  |                                       |   |   |   |  |   |  |  |                        |
| - 5  | i0-  |                                       |   |   |   |  |   |  |  |                        |
| (m/vuat  |  |                                       |   |   |   | M3                                     |   | M2                                     | Ì                                      | <b>N</b>               |
| m/vuđi   |  | dimanistratifacia, strandistranistika |   | zyriaezanifezitzetz statutatetisztás pezise | te dan set in the data bet in the set             |  | <u>qaasaa ay kaaqootta qabaaa</u>   | M2                                     | À                                      | New York Hand          |
| avel (dbu//m<br>7  |  | dernamentalistissen och socialista    | ng den disk of the first of the fi    | hyritaan mileydd af af hifarta fadd a galag | มารู้ที่สุขารารัฐอาจจังสั่งๆ ผู้สูงได้มีปรุงสารได |  | ۇدەرىدىزىل <i>ايغىزلىرىكى قام</i> ى   | M2                                     | /                                      | Muslim                 |
| level (dbuV/m<br>c F   | 10 - Manadagushdi Nanadi na haran ngilada  | deransersidence, strenen fransiske    | าราชาติสาราร์ เรา 24 Horan and Angel  | ngaan dindahasinda gadi adag                | ระชุดีพระประการให้เหลือที่สะได้เป็นรูปอย่าง       |  | gangan ayah kang berjara sika a   | M2                                     | Ì                                      | Number of Contractions |
| ۵/۱۹۹۳ (۱۹۹۳) هموا<br>۱۹۸۹ (۱۹۹۳) ۹۵<br>۱۹۸۹ (۱۹۹۳)  | 10 - <mark>Mán Alapart de Hopathi, ha an an Alain.</mark><br>10 -  | diranse stilleren sironaat franklike  | પુંચ્યું હુકુ અન્ય અને અને અને કે કે કે કે ક  | yyian, dista katala anala                   | ingly and a statistic states                      |  | eerineeli kartostaatha  | M2                                     | \<br>                                  | A Vinestages           |
| ш/лляр 4<br>(окало) 4<br>3<br>2<br>1   | 10   | deransen sind van serveren en sind de | <del>เข้าสมุล</del> องจะ ห <sub>ั</sub> นสมุมไป <u>ต</u> ร  | ngriannaficiliachaithachachacha             | sofferen fan de ferste kener                      |  | ફક્ત્રાન્સકુર્ત કે સ્ટર્ક ન્યું અન્ય કે પ્રેન્સ કે પ્રેન્સ કે પ્રેન્સ કે પ્રેન્સ કે પ્રેન્સ કે પ્રેન્સ કે પ્રેન<br>સાથે કે પ્રેન્સ કે પ્રેન | M2                                     | }                                      | Museum                 |
| ш/лляр<br>1 100 - 4<br>3<br>2<br>1   | 10 - <mark>Handers (d. 1-5 Handers </mark> | derante ridera stroom traitice        | ารูร์องกัน ค.ศ. 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 - 201 -<br> |   | equency (MHz)                                     |  | ลูละรอมสูน (ร่องสุดรูลาสูมสูป<br>   | M2                                     |  | 2410                   |
| ш/лляр<br>1 100 - 4<br>3<br>2<br>1   | 10   | Results                               | Factor  |   |   |  | Table   | Height                                 | ANT                                    |                        |
| (Idan) 4 (المر) 4 (( | 10   |                                       |   | Fr  | equency (MHz)                                     | té-ratér-vañy-bekhtez <sup>a</sup> nge | Table<br>(0)  |  | ANT                                    |                        |
| (Idan) 4 (المر) 4 (( | 10   | Results                               | Factor  | Fr  | equency (MHz)                                     | té-ratér-vañy-bekhtez <sup>a</sup> nge |   | Height                                 | ANT                                    |                        |
| ۳/۱۹۹۵ 4<br>3<br>2<br>1<br>0.<br><b>No.</b>  | 10   | Results<br>(dBuV/m)                   | Factor<br>(dB)  | Fr<br>Limit<br>(dBuV/m)                     | equency (MHz)<br>Over Limit<br>(dB)               | Detector                               | (0)   | Height<br>(cm)                         |  | Verdic                 |
| 4<br>3<br>2<br>1<br>0.<br>No.  | 10   | Results<br>(dBuV/m)<br>84.37          | Factor<br>(dB)<br>-3.57   | Fr<br>Limit<br>(dBuV/m)<br>74.0             | equency (MHz)<br>Over Limit<br>(dB)<br>10.37      | Detector<br>Peak                       | (o)<br>300.00   | Height<br>(cm)<br>100                  | Vertical                               | Verdic<br>N/A          |

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| Р   | Product:  | WIREI  |                     | 3T MECHA<br>KEYBOAI   | .NICAL GAN<br>RD   | MING                                     | Polar                                       | rity   | Horiz  | ontal                             |
|---|---|--|---------------------|---|--|--|---|--|--|-----------------------------------|
|   | Mode  |  | Kee                 | ping Transı   | mitting  |  | Test Vo                                     | ltage  | DC3  | 8.7V                              |
| Ter   | nperature                                       |  |                     | 24 deg. C   | ·,   |  | Humi  | dity   | 56%  | RH                                |
| Tes   | st Result:                                      |  |                     | Pass  |  |  |   | -  |  | -                                 |
| CC Part 15<br>1.0E+2  | iC Class B 1GHz-18GHz                           | -2   |                     |   |  |  |   |  |  |                                   |
| 90  |   |  |                     | M1  |  |  |   |  |  |                                   |
| 80  | -   |  | _/                  |   |  |  |   |  |  |                                   |
| 70  |   |  |                     | The second se | $\mathbf{\lambda}$   |  |   |  |  |                                   |
|   |   |  | 1                   |   | $\lambda$ —  |  |   |  |  |                                   |
| 60  |   |  | A                   |   | N.   |  |   |  |  |                                   |
| 50  |   | /  | /                   |   | M2 M   |  |   |  |  |                                   |
| 50  |   | to be well worked  | /                   |   | M2<br>• MM/M/M/  | الممتقر من أو و طارع و مع ماليو و مقر    | n   | olis, martiste to attest from  | mathilines bet meters but  | nd & Abder and                    |
| (m//mgp) 40   | -<br>-<br>pheromonical and the dependent of the | where the second s | /                   |   | M2<br>M2<br>M2<br>M2<br>M2<br>M2<br>M2<br>M2<br>M2<br>M2<br>M2<br>M2<br>M2<br>M  | na n | ne galantipangen yili kinashadh             | eline yan yan di kan terdi yang t  | un stada palasta ing tanta daga daga   | n <mark>gl a. bi</mark> thingines |
| 50  | -<br>-<br>pheromonical and the dependent of the | where the result   | /                   |   | M2 Not North | in myye, by static a state of a          | ngilasinga yikingilah                       | elinesinetti teskentti eleven  | un that a faile state of the state | ngi a divisiyying                 |
| (u)<br>(u)<br>(u)<br>(u)<br>(u)<br>(u)<br>(u)<br>(u)<br>(u)<br>(u)                |   | in the second  | /                   |   | M2 The home have   | تەمەر بايرە ئارىزى بالىرەمەر             | <u>ય કુરી ત</u> ારળા કરત કરી એ ત્યાં તે છે. | ilonpice de Lovient de la  | na dalam katala dala dala dala dala dala dala dala   | ral & Abdity inc                  |
| (gpn//m)<br>40<br>30  |   | in the spectra state   | /                   |   | M2<br>M2<br>NM2<br>NM2<br>NM2<br>NM2<br>NM2<br>NM2<br>NM2<br>NM2<br>NM   | Barran burdini a Managa                  | n gita serangan gitan sint                  | in the second  | nes <del>tela a</del> taladi yakata, ku  | ng a Malinen                      |
| (a) 50<br>40<br>30<br>20<br>10<br>0.0   |   | in the second  | /                   |   | M2 https://www.  | Bergyn by strije jilen oge               | nggalastionegas ylikkogiskok                | the spice of the state of the s | un de la sector de s  |                                   |
| (a) 50<br>40<br>30<br>20<br>10<br>0.0   |   | in the second second   | /                   |   | 2483.5<br>Frequency (MH  |  | ne gile ser en se stiele et et et et        | Newport Control Control  | neskelen kelente socialentet. egen   | 2500                              |
| (w//mgp)<br>even<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a |   | Results  | Factor              | Limit   |  |  | Table (o)                                   | Height   | ANT  |                                   |
| (mu/Angp)<br>40<br>30<br>20<br>10<br>20   |   |  | f<br>Factor<br>(dB) | Limit<br>(dBuV/m)   | Frequency (MH  | z)                                       |   | T  | 1  | 2500                              |
| (mu/Angp)<br>40<br>30<br>20<br>10<br>20   |   | Results  |                     |   | Frequency (MH  | z)                                       |   | Height   | 1  | 2500                              |
| ()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()                          | Frequency<br>(MHz)                              | Results<br>(dBuV/m)  | (dB)                | (dBuV/m)  | Frequency (MH<br>Over Limit<br>(dB)  | <sup>z)</sup><br>Detector                | Table (o)                                   | Height<br>(cm)   | ANT  | 2500<br>Verdict                   |

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| Product:<br>Mode<br>Temperature                      |                        | WIRED/2.4G/BT MECHANICAL GAMING<br>KEYBOARD   |                                    |                                    |                                     |                           | Detecto  | or  | Vertical<br>DC3.7V                          |   |  |
|--|------------------------|---|------------------------------------|------------------------------------|-------------------------------------|---------------------------|--|---|---|---|--|
|  |                        |   | Keeping Transmitting<br>24 deg. C, |                                    |                                     |                           |  | age   |   |   |  |
|  |                        |   |                                    |                                    |                                     |                           |  | ty  | 56% RH                                      |   |  |
| Test Result:   |                        |   |                                    | Pass                               |                                     |                           |  |   |   |   |  |
| CC Part 1<br>1.0E+                                   | 15C Class B 1GHz-18GHz | -2  |                                    |                                    |                                     |                           |  |   |   |   |  |
| g  | 90 -                   |   | M1                                 |                                    |                                     |                           |  |   |   |   |  |
| p  | 30 -                   |   | $\sim$                             | ~                                  |                                     |                           |  |   |   |   |  |
|  |                        |   |                                    |                                    |                                     |                           |  |   |   |   |  |
| 7  | 70 -                   |   |                                    |                                    |                                     |                           |  |   |   |   |  |
| 6  | 60-                    |   |                                    |                                    |                                     |                           |  |   |   |   |  |
| _  |                        |   |                                    | N                                  |                                     |                           |  |   |   |   |  |
| ξ <sup>3</sup>                                       | 50-                    |   |                                    | \<br>\                             | <                                   |                           |  |   |   |   |  |
| (m//udb) le  | 10-<br>10-             | And a survey with such made   |                                    | M2                                 | A second second second              | - here i scher anders and | e not - like kildende namer ditter bere  | e de raidresse ha, a sait a badra de  | er fahler var varaak var het valet het.     | distributed   |  |
| level (dBuV/m  | 10                     | And Share and a share and   |                                    | M2                                 | A Construction of the second second | alian Lift a file share.  | n an   | fortanisti si fan an a   | entraligencerisesteren gebrucht be          | ator de la construcción de la const |  |
| level (dBuV/m<br>5                                   | 10                     | nation of the second |                                    | M2                                 | A second statement                  | alla Liditta Mila Anta    | - set - Hert hert an pairetag  | Lan California a Landar da Angelanda da Angelanda da Angelanda da Angelanda da Angelanda da Angelanda da Angela | nd-standarisationsportation                 | nter anter a  |  |
| level (dBuV/m<br>5                                   | 10-                    | net sussetting  |                                    | M2                                 | And and a substantion               | alla i Alipatela da a     | estet a första första som första som   | gale and an off later of and an initial   | ndalgantarisetteregtetystetki               | esuntesus   |  |
| evel (dBu//m<br>2                                    | 10                     | net sussetting and  |                                    | M2                                 | A second second second              | allanisti patricolar      | - 6(1-1-1)<br>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19 | gale and an open set of the set of | wate an |   |  |
| ۹ (dgnn/)<br>۱ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ | 10                     | nyeth source this indexed   |                                    | 2483.5                             |                                     | alian Lidup ajika harar   | -c:/~;ijii/iki/kyt/.ac/Aijcfag   | gen send som från av skale  | norske menske gelgelekke                    | 2500  |  |
| 4 (۹۵۳۸/۳<br>2 2<br>1 0                              | 10                     |   | Factor                             | 2483.5<br>Fre                      | equency (MHz)                       | T                         |  | 1   | T   | 2500  |  |
| ۹ (dgnn/)<br>۱ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ ۹ | 10                     | Results   | Factor<br>(dB)                     | 2483.5<br>Fre<br>Limit             | equency (MHz)                       | Detector                  | Table  | Height  | ANT   | 2500  |  |
| evel (d8r//m<br>3<br>2<br>1                          | 10                     |   | Factor<br>(dB)<br>-3.57            | 2483.5<br>Fre                      | equency (MHz)                       | T                         |  | Height  | T   | 2500  |  |
| (Mngp) 4<br>2<br>1<br>1<br>0                         | 10                     | Results<br>(dBuV/m)   | (dB)                               | 2483.5<br>Fre<br>Limit<br>(dBuV/m) | equency (MHz)<br>Over Limit<br>(dB) | Detector                  | Table<br>(o)   | Height<br>(cm)  | ANT   | 2500<br>Verdic  |  |

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 PCB antenna. The antenna gain is 2.34dBi Max. It fulfills the requirement of this section. Test Result: Pass

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

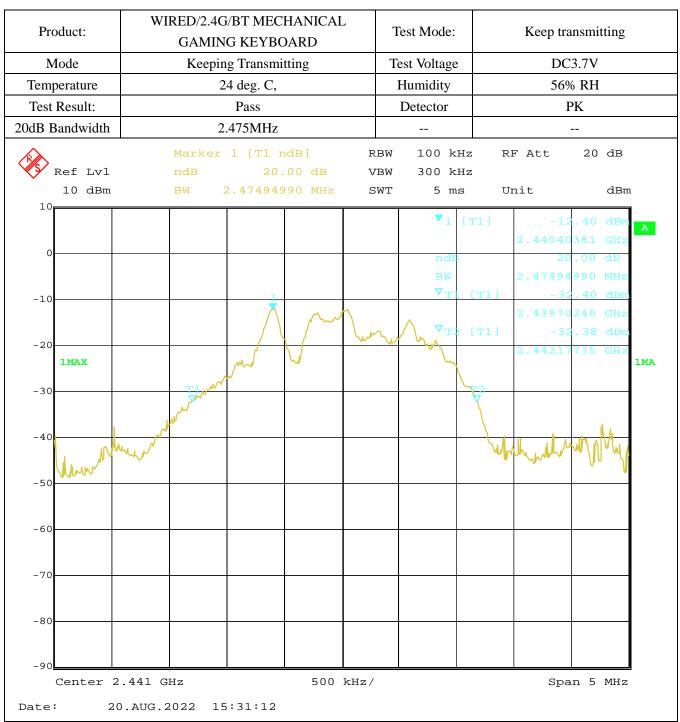
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| Marker 1 [T1 ndB] RBW 100 kHz RF Att 20 dB   Ref Lvl ndB 20.00 dB VBW 300 kHz   10 dBm BW 2.51503006 MHz SWT 5 ms Unit dBm   10 BW 2.51503006 MHz SWT 5 ms Unit dBm   10 Image: Comparison of the state of the   | Product:   | 24 deg. C, |     |       |       | Humidity |                              | 56% RH |  |  |    |
|---|--|------------|-----|-------|-------|----------|------------------------------|--------|--|--|----|
| Test Result:   Pass   Detector   PK     20dB Bandwidth   2.515MHz       Marker 1 [T1 ndB]   REW   100 kHz   RF Att   20 dB     Ref Lv1   ndB   20.00 dB   VBW   300 kHz     10 dBm   BW   2.51503006 MHz   SWT   5 ms   Unit   dBm     10   BW   2.51503006 MHz   SWT   5 ms   Unit   dBm     -10   If11   -17.03 dBm   2.40240 381 GHz   2.40167 234 GHz   2.40167 234 GHz   -32 89 dBm   2.40167 234 GHz   -32 89 dBm   -34 89   | Mode   |            |     |       |       |          |                              |        |  |  |    |
| 20dB Bandwidth   2.515MHz       Marker 1 [T1 ndB]   RBW   100 kHz   RF Att   20 dB     Ref Lvl   ndB   20.00 dB   VBW   300 kHz   Init   dEm     10 dBm   BW   2.51503006 MHz   SWT   5 ms   Unit   dEm     10   BW   2.51503006 MHz   SWT   5 ms   Unit   dEm     10   Indit   2.40240 381 GHz   Indit   2.40240 381 GHz   Indit   2.40167 234 GHz     -10   BW   2.51503 006 MHz   VT   ITI   -32.88 dBm     -20   BW   2.40167 234 GHz   ITI   -32.89 dBm     -30   VT   VT   ITI   -32.89 dBm     -30   IMAX   INA   INA   INA   INA     -50   IMAX   INA   INA   INA   INA   INA     -60   INA   INA   INA   INA   INA   INA   INA   | Temperature  |            |     |       |       |          |                              |        |  |  |    |
| Marker 1 [T1 ndB]   RBW   100 kHz   RF Att   20 dB     10 dBm   BW   2.51503006 MHz   SWT   5 ms   Unit   dBm     10   BW   2.51503006 MHz   SWT   5 ms   Unit   dBm     10   BW   2.51503006 MHz   SWT   5 ms   Unit   dBm     10   Image: SWT   SWT   2.51503006 MHz   2.400407234 GHz   dBm     10   Image: SWT   SWT   SWT   2.400167234 GHz   dBm     10   Image: SWT   SWT   SWT   SWT   dBW   dMa     10   Image: SWT   SWT <t< th=""><th>Test Result:</th></t<>   | Test Result:   |            |     |       |       |          |                              |        |  |  |    |
| Ref Lvl   ndB   20.00 dB   VBW   300 kHz     10 dBm   BW   2.51503006 MHz   SWT   5 ms   Unit   dBm     10   Image: SWT   5 ms   Unit   dBm   dBm   2.40240 dBill   dBm     10   Image: SWT   5 ms   Unit   dBm   2.40240 dBill   dBm     10   Image: SWT   | 20dB Bandwidth   | 2.515MHz   |     |       |       |          |                              |        |  |  |    |
| Image: state stat | •  | ndB        | 20. | 00 dB | VI    | ЗW       | 300 ki                       | Hz     |  |  | ı  |
|   | 0<br>-10<br>-20<br><b>IMAX</b><br>-30<br>-40<br>-40<br>-50<br>-60<br>-70 |            |     |       |       |          | ndB<br>BW<br>⊽ <sub>T1</sub> | [T1]   | 2.40240<br>20<br>2.51503<br>-32<br>2.40167<br>-32<br>2.40418 | 381 GHz<br>.00 dB<br>006 MHz<br>.88 dBm<br>234 GHz<br>.89 dBm<br>737 GHz | 1. |
| -90<br>Center 2.403 GHz 500 kHz/ Span 5 MHz   |  | GHZ        |     | 500 1 | -H7 / |          |                              |        | Gra  | n 5 M¤≈  |    |

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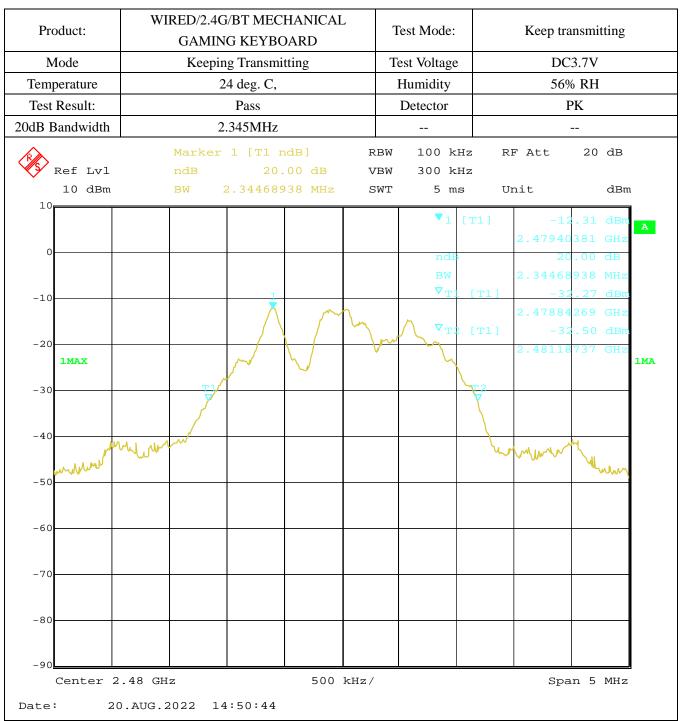




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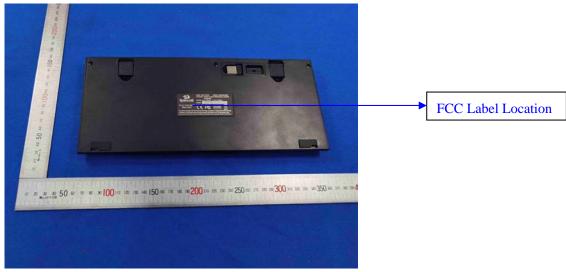
### 10.0 FCC ID Label

### FCC ID: TUVET-8805A

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

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:



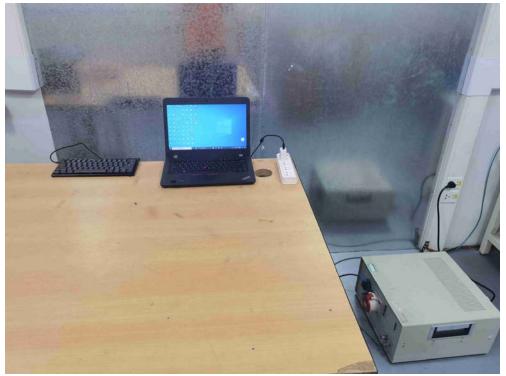
The report refers only to the sample tested and does not apply to the bulk.

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### 11.0 Photo of testing

11.1 Conducted test View--

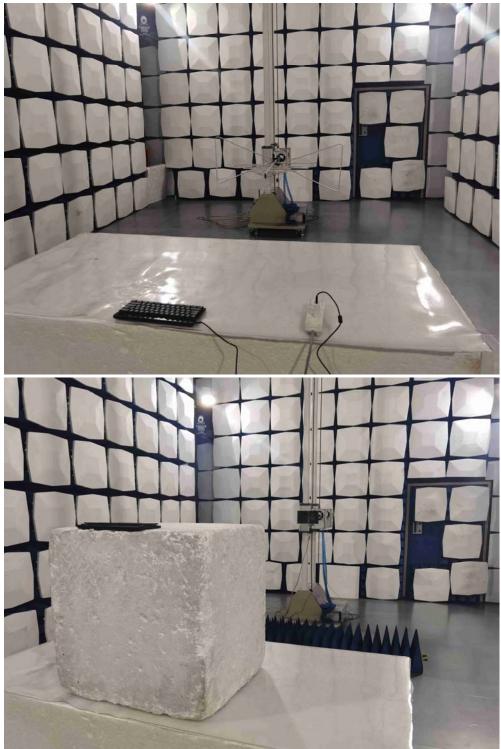


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Radiated emission test view



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#### 11.2 Photographs - EUT

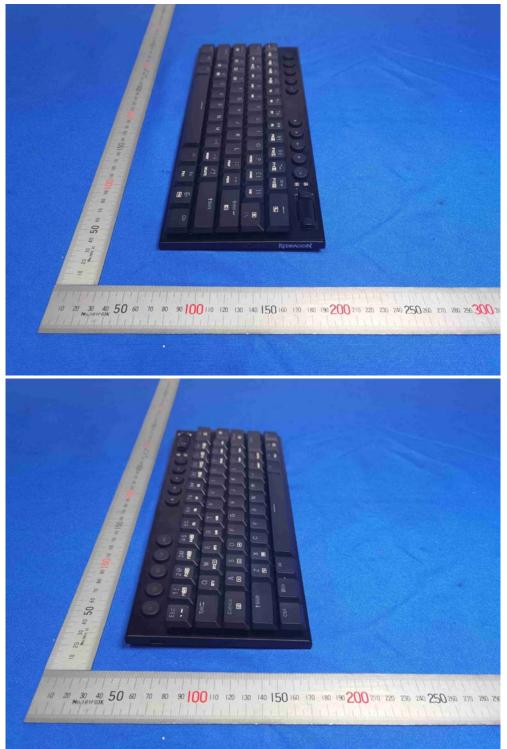


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Outside View



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Outside View

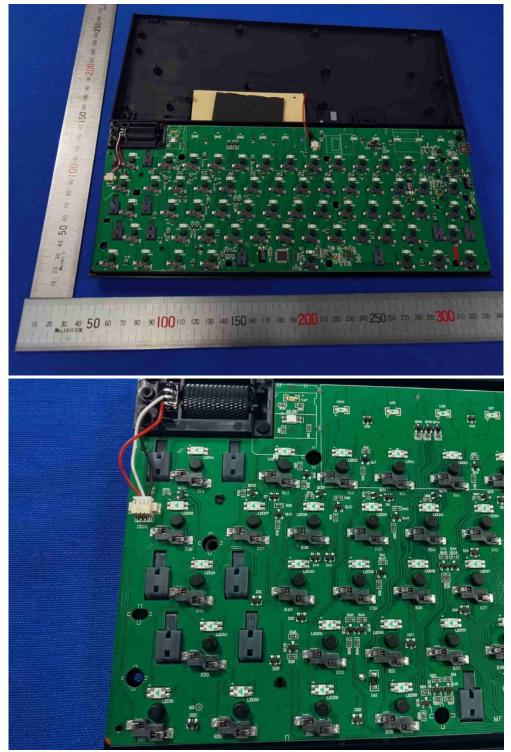


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Inside view



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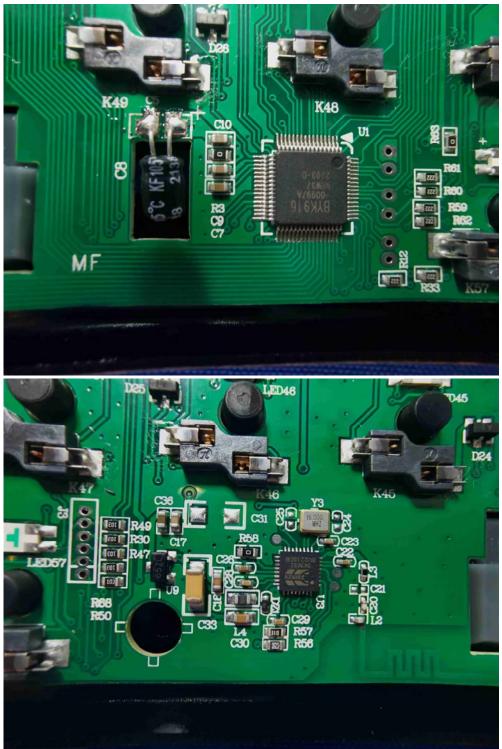
Inside view



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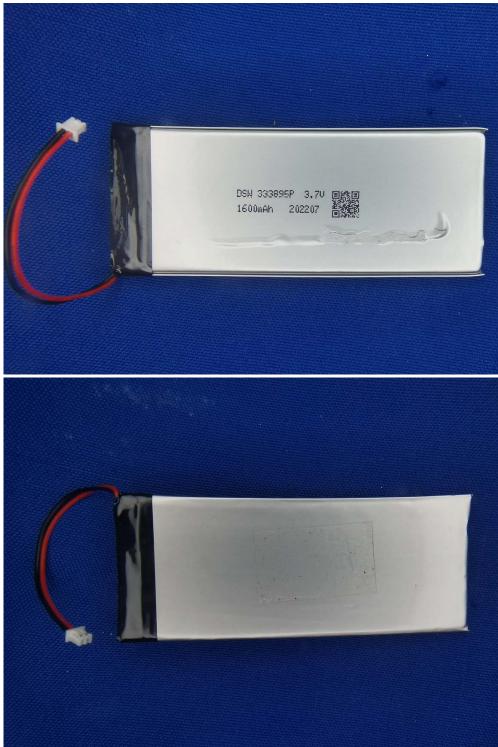
Inside view



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Inside view



--End of the report--

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