

## FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Harman Professional, Inc.

All-IN-ONE Column PA System

Model Number: EON ONE MK2

FCC ID: 2AUHEEONMK2

|                          |                                                                        |
|--------------------------|------------------------------------------------------------------------|
| Applicant:               | Harman Professional, Inc.                                              |
| Address:                 | 8500 Balboa Blvd., Northridge, CA 91325, USA                           |
|                          |                                                                        |
| Prepared By:             | EST Technology Co., Ltd.                                               |
|                          | Chilingxiang, Qishantou, Santun, Houjie, Dongguan,<br>Guangdong, China |
| Tel: 86-769-83081888-808 |                                                                        |

|                 |                               |
|-----------------|-------------------------------|
| Report Number:  | ESTE-R2012125-1               |
| Date of Test:   | Sep. 04, 2025 ~ Oct. 15, 2025 |
| Date of Report: | Oct. 18, 2025                 |

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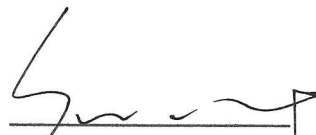
|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |                                  |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------|
| <b>Applicant:<br/>Address:</b>    | Harman Professional, Inc.<br>8500 Balboa Blvd., Northridge, CA 91325, USA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |                                  |
| <b>Manufacturer:<br/>Address:</b> | Harman Professional, Inc.<br>8500 Balboa Blvd., Northridge, CA 91325, USA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |                                  |
| <b>E.U.T:</b>                     | All-IN-ONE Column PA System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                  |
| <b>Model Number:</b>              | EON ONE MK2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                  |
| <b>Power Supply:</b>              | AC 100-120V~50/60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                                  |
| <b>Trade Name:</b>                | JBL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Serial No.:</b>   | -----                            |
| <b>Date of Receipt:</b>           | Sep. 04, 2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Date of Test:</b> | Sep. 04, 2025 ~<br>Oct. 15, 2025 |
| <b>Test Specification:</b>        | FCC Part 15 Subpart C (15.247)<br>ANSI C63.10:2020<br>FCC KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                  |
| <b>Test Result:</b>               | <p>The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p> <p style="text-align: right;"><b>Date: Nov. 12, 2025</b></p> |                      |                                  |

Prepared by:

Reviewed by:

Zephyr Zhu

Zephyr Zhu / Assistant



Seven Wang / Engineer

Approved by:



Iceman Hu / Manager

**Other Aspects:** This report base on the previous report with report number: ESTE-R2012125, a new battery is added in this report, so only need re-tested Conducted Emissions and spurious emissions(30-1000MHz).

Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd. The statement of compliance in this report is based on the limit in the test standard, the measurement uncertainty is not considered.

## 1.GENERAL INFORMATION

### 1.1.Description of Device (EUT)

|                                                                                                                 |   |                             |
|-----------------------------------------------------------------------------------------------------------------|---|-----------------------------|
| Product Name                                                                                                    | : | All-IN-ONE Column PA System |
| Model Number                                                                                                    | : | EON ONE MK2                 |
| Software Version                                                                                                | : | 2.0.0.5                     |
| Hardware Version                                                                                                | : | 1.0.0                       |
| Operation frequency                                                                                             | : | 2402MHz~2480MHz             |
| Number of channel                                                                                               | : | 40                          |
| Modulation Type                                                                                                 | : | GFSK 1Mbps;<br>GFSK 2Mbps   |
| Sample Type                                                                                                     | : | Prototype production        |
| Note: The product information is provided by the manufacturer. The laboratory is not responsible for this data. |   |                             |

### 1.2.Antenna Information

| Ant No.                                                                                                                                                                                                       | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|--------------|-----------|------------|
| 1                                                                                                                                                                                                             | -     | -          | Internal     | -         | 5          |
| Note:<br>1.The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.<br>2.The test results of this report only apply to the sample as received |       |            |              |           |            |

## 2.SUMMARY OF TEST

### 2.1.Summary of test result

| No. | Description of Test Item                     | FCC Standard Section          | Results |
|-----|----------------------------------------------|-------------------------------|---------|
| 1   | Radiated Spurious Emissions<br>and Band Edge | 15.205<br>15.209<br>15.247(d) | PASS    |
| 2   | AC Power Line Conducted<br>Emissions         | 15.207                        | PASS    |

## 2.2.Test Facilities

EMC Lab : Accredited by CNAS, CHINA  
Registration No.: L5288  
This Accreditation is valid until: November 12, 2029

Recognized by FCC, USA  
Designation Number: CN1215  
This Recognition is valid until: January 31, 2026

Accredited by A2LA, USA  
Registration No.: 4366.01  
This Accreditation is valid until: January 31, 2026

Recognized by Industry Canada  
CAB identifier No.: CN0035  
This Recognition is valid until: January 31, 2026

Recognized by VCCI, Japan  
Registration No.:C-14103; T-20073; R-13663;  
R-20103; G-20097  
Date of registration: Apr. 20, 2020  
This Recognition is valid until: Apr. 19, 2026

Recognized by TUV Rheinland, Germany  
Registration No.: UA 50413872 0001  
Date of registration: July 31, 2018

Recognized by Intertek  
Registration No.: 2011-RTL-L2-64  
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,  
Guangdong, China

## 2.3.Measurement uncertainty

| Test Item                                               | Uncertainty                       |
|---------------------------------------------------------|-----------------------------------|
| Uncertainty for Conduction emission test                | $\pm 3.48\text{dB}$               |
| Uncertainty for spurious emissions test (Below 30MHz)   | $\pm 1.62\text{ dB}$              |
| Uncertainty for spurious emissions test (30MHz-1GHz)    | $\pm 4.60\text{ dB(Polarize: H)}$ |
|                                                         | $\pm 4.68\text{ dB(Polarize: V)}$ |
| Uncertainty for spurious emissions test (1GHz to 25GHz) | $\pm 4.96\text{dB}$               |
| Uncertainty for radio frequency                         | $7 \times 10^{-8}$                |
| Uncertainty for conducted RF Power                      | $1.08\text{dB}$                   |
| Uncertainty for Power density test                      | $0.26\text{dB}$                   |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

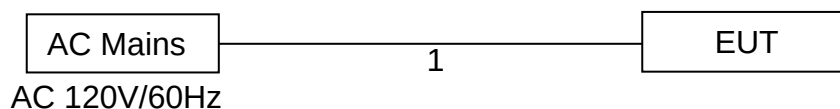
## 2.4.Assistant equipment used for test

| Item | Equipment | Brand | Model Name/Type No. | FCC ID | Series No. |
|------|-----------|-------|---------------------|--------|------------|
| -    | -         | -     | -                   | -      | -          |

| Item | Shielded Type | Ferrite Core | Length | Note     |
|------|---------------|--------------|--------|----------|
| 1    | NO            | NO           | 2m     | AC Cable |

## 2.5.Block Diagram

For radiated emissions test: EUT was placed on a turntable, which is 0.1 meters high above ground. The EUT was set into BT test mode by software prior to testing.



(EUT: All-IN-ONE Column PA System)

## 2.6.Test Mode

The test mode was selected for the final test as listed below.

| Test Item                               | Modulation Type | Test Channel    |
|-----------------------------------------|-----------------|-----------------|
| Radiated Spurious Emissions(Below 1GHz) | GFSK            | Low/Middle/High |
| AC Power Line Conducted Emissions       | GFSK            | Low/Middle/High |

Note: In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

## 2.7.Power Setting of Test Software

| Software Name     | BlueTest V3.2.1 |         |         |
|-------------------|-----------------|---------|---------|
| Frequency(MHz)    | 2402            | 2440    | 2480    |
| Setting (GFSK 1M) | Default         | Default | Default |
| Setting (GFSK 2M) | Default         | Default | Default |

Note: This information is provided by the applicant.

## 2.8.Channel List

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|-------------|-----------------|-------------|-----------------|
| 0           | 2402            | 1           | 2404            |
| 2           | 2406            | 3           | 2408            |
| 4           | 2410            | 5           | 2412            |
| 6           | 2414            | 7           | 2416            |
| 8           | 2418            | 9           | 2420            |
| 10          | 2422            | 11          | 2424            |
| 12          | 2426            | 13          | 2428            |
| 14          | 2430            | 15          | 2432            |
| 16          | 2434            | 17          | 2436            |
| 18          | 2438            | 19          | 2440            |
| 20          | 2442            | 21          | 2444            |
| 22          | 2446            | 23          | 2448            |
| 24          | 2450            | 25          | 2452            |
| 26          | 2454            | 27          | 2456            |
| 28          | 2458            | 29          | 2460            |
| 30          | 2462            | 31          | 2464            |
| 32          | 2466            | 33          | 2468            |
| 34          | 2470            | 35          | 2472            |
| 36          | 2474            | 37          | 2476            |
| 38          | 2478            | 39          | 2480            |

## 2.9. Test Equipment List

### For conducted emission test

| Equipment                | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal.  |
|--------------------------|-----------------|--------------|------------|------------------|------------|------------|
| EMI Test Receiver        | Rohde & Schwarz | ESRP3        | EST-E070   | LISAI            | June 11,25 | June 10,26 |
| Artificial Mains Network | Rohde & Schwarz | ENV216       | EST-E048   | LISAI            | June 11,25 | June 10,26 |
| Pulse Limiter            | Rohde & Schwarz | ESH3-Z2      | EST-E078   | LISAI            | June 11,25 | June 10,26 |
| Test Software            | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A        |

### For radiated emission test(9kHz-30MHz)

| Equipment           | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal.  |
|---------------------|-----------------|--------------|------------|------------------|------------|------------|
| EMI Test Receiver   | Rohde & Schwarz | ESR7         | EST-E047   | LISAI            | June 11,25 | June 10,26 |
| Active Loop Antenna | SCHWABE BECK    | FMZB 1519B   | EST-E054   | LISAI            | June 11,25 | June 10,26 |
| Test Software       | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A        |
| 9kHz-30MHz Cable    | N/A             | EST-001      | N/A        | N/A              | N/A        | N/A        |

### For radiated emissions test (30MHz-1000MHz)

| Equipment         | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal.  |
|-------------------|-----------------|--------------|------------|------------------|------------|------------|
| EMI Test Receiver | Rohde & Schwarz | ESR7         | EST-E047   | LISAI            | June 11,25 | June 10,26 |
| Bilog Antenna     | Tesseq          | CBL 6111D    | EST-E034   | LISAI            | June 11,25 | June 10,26 |
| Test Software     | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A        |
| 30-1000MHz Cable  | N/A             | EST-002      | N/A        | N/A              | N/A        | N/A        |

### 3.RADIATED SPURIOUS EMISSIONS AND BAND EDGE

#### 3.1.Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 15.205 Restricted frequency band

| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2690 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     | ( <sup>2</sup> ) |

#### 15.209 Limit

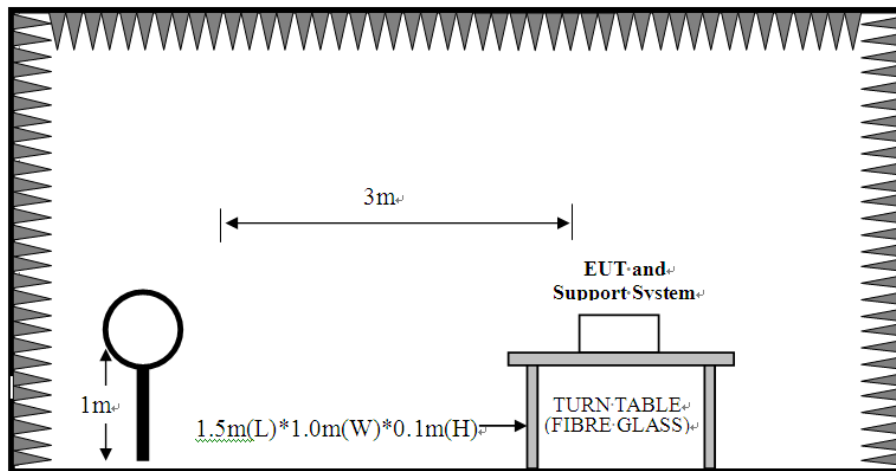
| Frequency (MHz) | Field Strength( $\mu$ V/m) | Distance(m) |
|-----------------|----------------------------|-------------|
| 0.009-0.490     | 2400/F(kHz)                | 300         |
| 0.490-1.705     | 24000/F(kHz)               | 30          |
| 1.705-30        | 30                         | 30          |
| 30-88           | 100                        | 3           |
| 88-216          | 150                        | 3           |
| 216-960         | 200                        | 3           |
| Above 960       | 500                        | 3           |

Note:

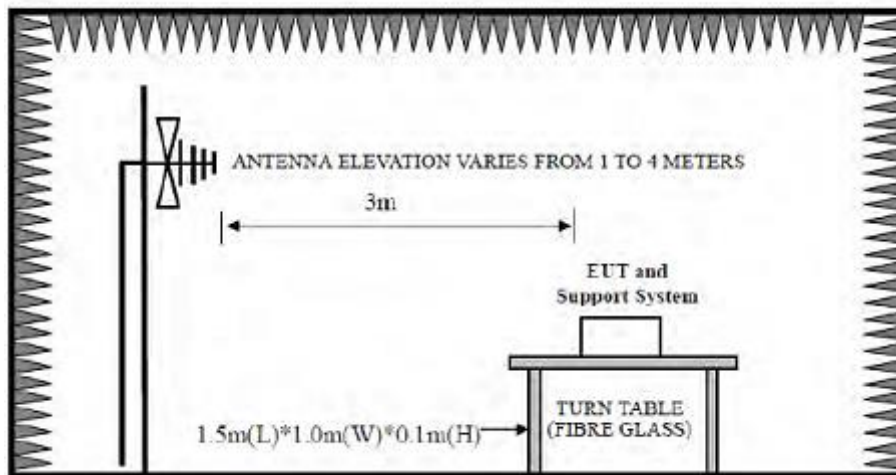
- (1) Emission level  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$ .
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

### 3.2.Test Setup

9kHz~30MHz



30~1000MHz



### 3.3.Spectrum Analyzer Setting

#### For 9KHz-150KHz

| Spectrum Parameters | Setting                                 |
|---------------------|-----------------------------------------|
| RBW                 | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| VBW                 | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| Start frequency     | 9KHz                                    |
| Stop frequency      | 150KHz                                  |
| Sweep Time          | Auto                                    |
| Detector            | PEAK/QP/AVG                             |
| Trace Mode          | Max Hold                                |

#### For 150KHz-30MHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 9KHz     |
| VBW                 | 9KHz     |
| Start frequency     | 150KHz   |
| Stop frequency      | 30MHz    |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

#### For 30MHz-1GHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 120KHz   |
| VBW                 | 300KHz   |
| Start frequency     | 30MHz    |
| Stop frequency      | 1GHz     |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

### 3.4.Test Procedure

- EUT was placed on a turn table, which is 0.1 meter high above ground for below 1GHz test.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

## 3.5.Test Result

## Radiated Emissions Below 1GHz

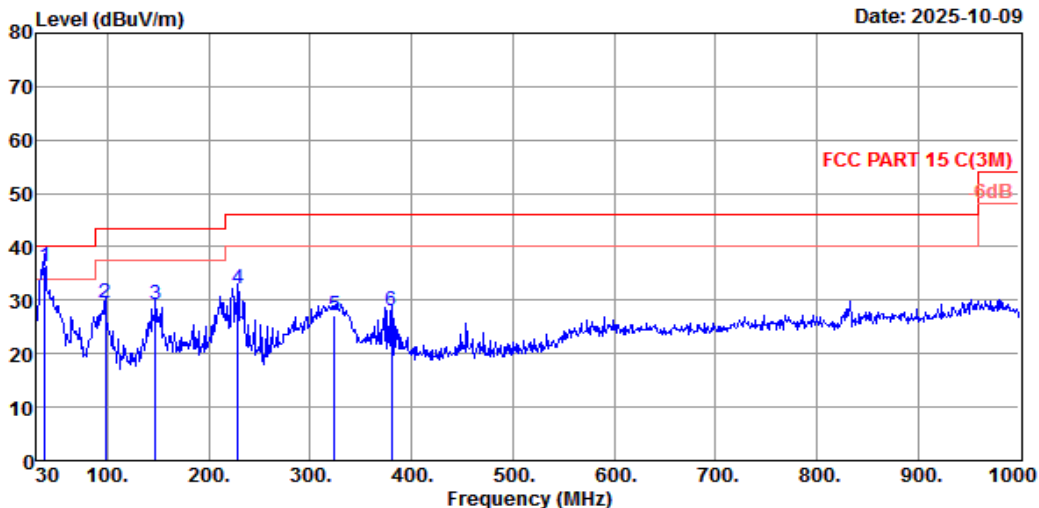
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Fax:+86-769-83081878

Data: 7

File: \\EMC-966-2\\test data\\2025\\RFIC\\Chao Sheng\\EON ONE MK2.EM6 (12)

Date: 2025-10-09



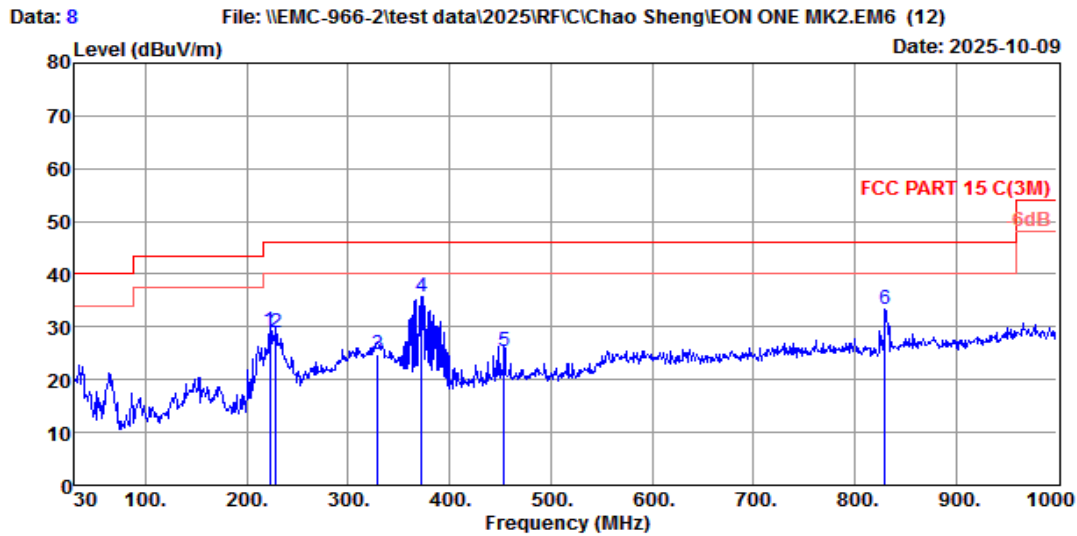
Site no. : 2# 966 chamber Data no. : 7  
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL  
Limit : FCC PART 15 C(3M)  
Env. / Ins. : Temp:27.5°C;Humi:70%;Press:101.3kPa  
Engineer : Ennis Zhang  
EUT : All-IN-ONE Column PA System  
Power : AC 120V/60Hz  
M/N : EON ONE MK2  
Test Mode : TX Mode

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 37.76          | 15.90                   | 0.71                  | 19.80             | 36.41                         | 40.00             | 3.59           | QP     |
| 2 | 97.90          | 10.80                   | 1.19                  | 17.42             | 29.41                         | 43.50             | 14.09          | QP     |
| 3 | 147.37         | 11.52                   | 1.50                  | 16.11             | 29.13                         | 43.50             | 14.37          | QP     |
| 4 | 228.85         | 10.14                   | 1.94                  | 19.97             | 32.05                         | 46.00             | 13.95          | QP     |
| 5 | 323.91         | 13.20                   | 2.37                  | 11.48             | 27.05                         | 46.00             | 18.95          | QP     |
| 6 | 380.17         | 14.90                   | 2.60                  | 10.68             | 28.18                         | 46.00             | 17.82          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

## EST Technology

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Site no. : 2# 966 chamber Data no. : 8  
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15 C(3M)  
Env. / Ins. : Temp: 27.5°C; Humi: 70%; Press: 101.3kPa  
Engineer : Ennis Zhang  
EUT : All-IN-ONE Column PA System  
Power : AC 120V/60Hz  
M/N : EON ONE MK2  
Test Mode : TX Mode

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 223.03         | 9.70                    | 1.91                  | 17.56             | 29.17                         | 46.00             | 16.83          | QP     |
| 2 | 228.85         | 10.14                   | 1.94                  | 16.85             | 28.93                         | 46.00             | 17.07          | QP     |
| 3 | 328.76         | 13.20                   | 2.39                  | 9.17              | 24.76                         | 46.00             | 21.24          | QP     |
| 4 | 372.41         | 14.74                   | 2.57                  | 18.37             | 35.68                         | 46.00             | 10.32          | QP     |
| 5 | 453.89         | 16.92                   | 2.89                  | 5.69              | 25.50                         | 46.00             | 20.50          | QP     |
| 6 | 830.25         | 21.70                   | 4.13                  | 7.62              | 33.45                         | 46.00             | 12.55          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

## Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

## 4.AC POWER LINE CONDUCTED EMISSIONS

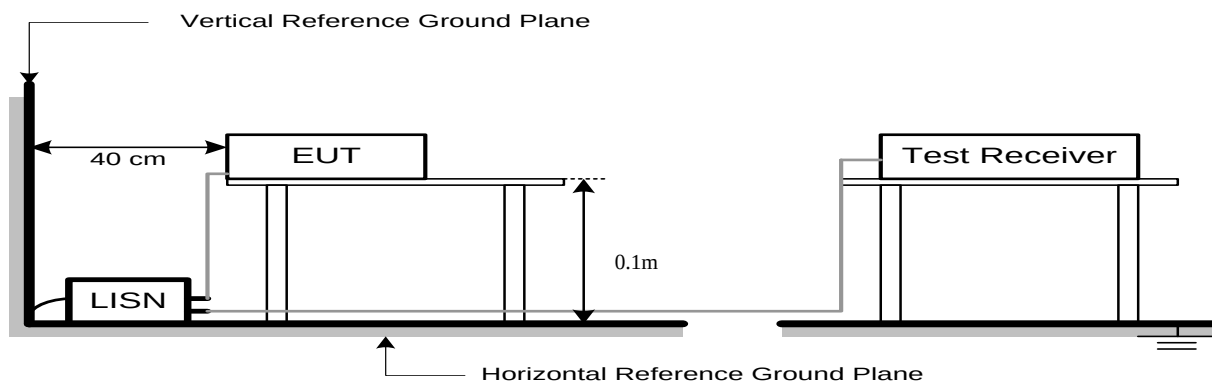
### 4.1.Limit

| Frequency |   |        | Maximum RF Line Voltage          |                               |
|-----------|---|--------|----------------------------------|-------------------------------|
|           |   |        | Quasi-Peak Level<br>dB( $\mu$ V) | Average Level<br>dB( $\mu$ V) |
| 150kHz    | ~ | 500kHz | 66 ~ 56*                         | 56 ~ 46*                      |
| 500kHz    | ~ | 5MHz   | 56                               | 46                            |
| 5MHz      | ~ | 30MHz  | 60                               | 50                            |

Note:

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

### 4.2.Test Setup



### 4.3.Spectrum Analyzer Setting

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 9KHz     |
| VBW                 | 9KHz     |
| Start frequency     | 150KHz   |
| Stop frequency      | 30MHz    |
| Sweep Time          | Auto     |
| Detector            | QP/AVG   |
| Trace Mode          | Max Hold |

### 4.4.Test Procedure

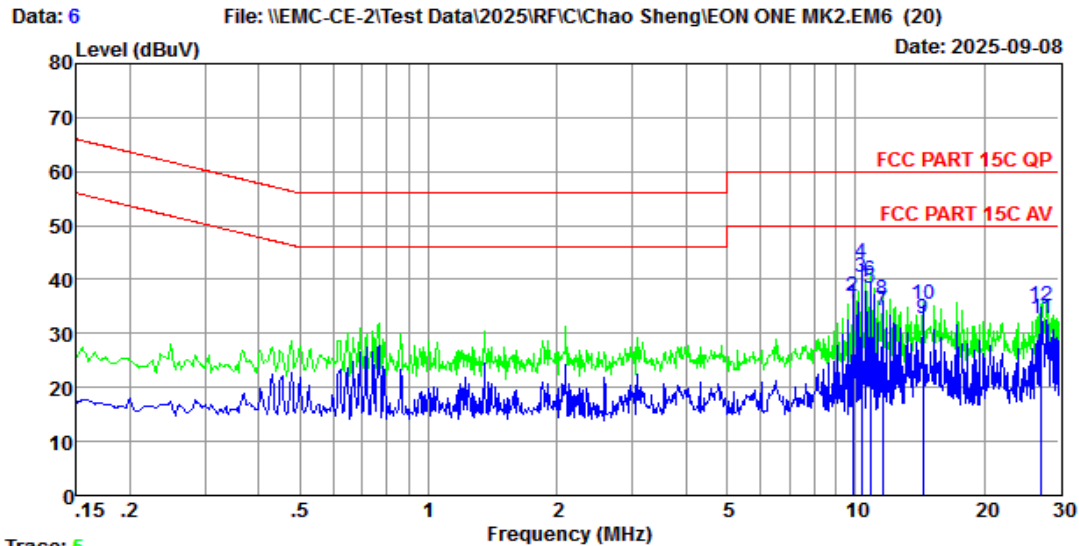
- a. The EUT was placed on a non-metallic table, 10cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.

- e. Spectrum analyzer setting parameters in accordance with section 4.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2020 on Conducted Emission Test.
- g. Record the results in the test report.

## 4.5. Test Result

EST Technology

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Site no : 2#CE Shield Room Data no. : 6  
Env. / Ins. : Temp:24.3℃ Humi:69% Press:101.10kPa LINE Phase : NEUTRAL  
Limit : FCC PART 15C QP  
Engineer : Dylan Cai  
EUT : All-IN-ONE Column PA System  
Power : AC 120V/60Hz  
M/N : EON ONE MK2  
Test Mode : TX Mode

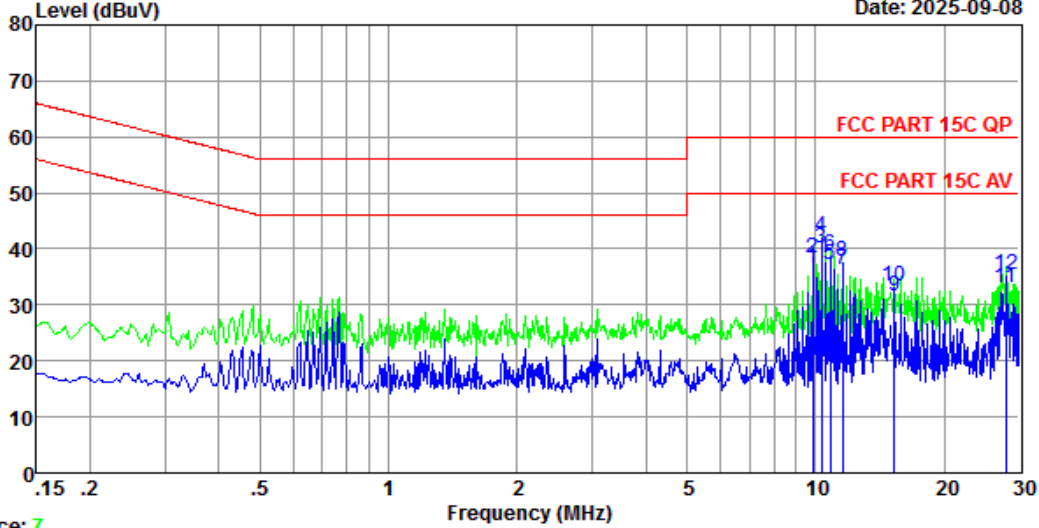
|    | Freq.<br>(MHz) | LISN<br>Factor<br>(db) | Cable<br>Loss<br>(db) | Reading<br>dBuV) | Emission<br>Level<br>(dBuv) | Limits<br>(dBuv) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|------------------|-----------------------------|------------------|----------------|---------|
| 1  | 9.86           | 9.66                   | 10.07                 | 15.62            | 35.35                       | 50.00            | 14.65          | Average |
| 2  | 9.86           | 9.66                   | 10.07                 | 17.13            | 36.86                       | 60.00            | 23.14          | QP      |
| 3  | 10.34          | 9.66                   | 10.08                 | 20.82            | 40.56                       | 50.00            | 9.44           | Average |
| 4  | 10.34          | 9.66                   | 10.08                 | 23.24            | 42.98                       | 60.00            | 17.02          | QP      |
| 5  | 10.85          | 9.66                   | 10.08                 | 18.57            | 38.31                       | 50.00            | 11.69          | Average |
| 6  | 10.85          | 9.66                   | 10.08                 | 20.13            | 39.87                       | 60.00            | 20.13          | QP      |
| 7  | 11.56          | 9.67                   | 10.09                 | 14.62            | 34.38                       | 50.00            | 15.62          | Average |
| 8  | 11.56          | 9.67                   | 10.09                 | 16.55            | 36.31                       | 60.00            | 23.69          | QP      |
| 9  | 14.36          | 9.68                   | 10.13                 | 13.10            | 32.91                       | 50.00            | 17.09          | Average |
| 10 | 14.36          | 9.68                   | 10.13                 | 15.52            | 35.33                       | 60.00            | 24.67          | QP      |
| 11 | 27.27          | 10.18                  | 10.30                 | 12.24            | 32.72                       | 50.00            | 17.28          | Average |
| 12 | 27.27          | 10.18                  | 10.30                 | 14.57            | 35.05                       | 60.00            | 24.95          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

# EST Technology

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Fax:+86-769-83081878

Data: 8 File: \\EMC-CE-2\Test Data\2025\RFIC\Chao Sheng\EON ONE MK2.EM6 (20) Date: 2025-09-08



Trace: 7  
Site no : 2#CE Shield Room Data no. : 8  
Env. / Ins. : Temp:24.3℃ Humi:69% Press:101.10kPa LINE Phase : LINE  
Limit : FCC PART 15C QP  
Engineer : Dylan Cai  
EUT : All-IN-ONE Column PA System  
Power : AC 120V/60Hz  
M/N : EON ONE MK2  
Test Mode : TX Mode

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(db) | Cable<br>Loss<br>(db) | Reading<br>dBuV | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-----------------|-----------------------------|------------------|----------------|---------|
| 1  | 9.86           | 9.65                   | 10.07                 | 16.82           | 36.54                       | 50.00            | 13.46          | Average |
| 2  | 9.86           | 9.65                   | 10.07                 | 18.63           | 38.35                       | 60.00            | 21.65          | QP      |
| 3  | 10.34          | 9.65                   | 10.08                 | 20.54           | 40.27                       | 50.00            | 9.73           | Average |
| 4  | 10.34          | 9.65                   | 10.08                 | 22.52           | 42.25                       | 60.00            | 17.75          | QP      |
| 5  | 10.85          | 9.65                   | 10.08                 | 17.54           | 37.27                       | 50.00            | 12.73          | Average |
| 6  | 10.85          | 9.65                   | 10.08                 | 19.13           | 38.86                       | 60.00            | 21.14          | QP      |
| 7  | 11.56          | 9.65                   | 10.09                 | 16.45           | 36.19                       | 50.00            | 13.81          | Average |
| 8  | 11.56          | 9.65                   | 10.09                 | 18.13           | 37.87                       | 60.00            | 22.13          | QP      |
| 9  | 15.31          | 9.64                   | 10.14                 | 11.79           | 31.57                       | 50.00            | 18.43          | Average |
| 10 | 15.31          | 9.64                   | 10.14                 | 13.60           | 33.38                       | 60.00            | 26.62          | QP      |
| 11 | 27.86          | 10.12                  | 10.31                 | 12.68           | 33.11                       | 50.00            | 16.89          | Average |
| 12 | 27.86          | 10.12                  | 10.31                 | 15.12           | 35.55                       | 60.00            | 24.45          | QP      |

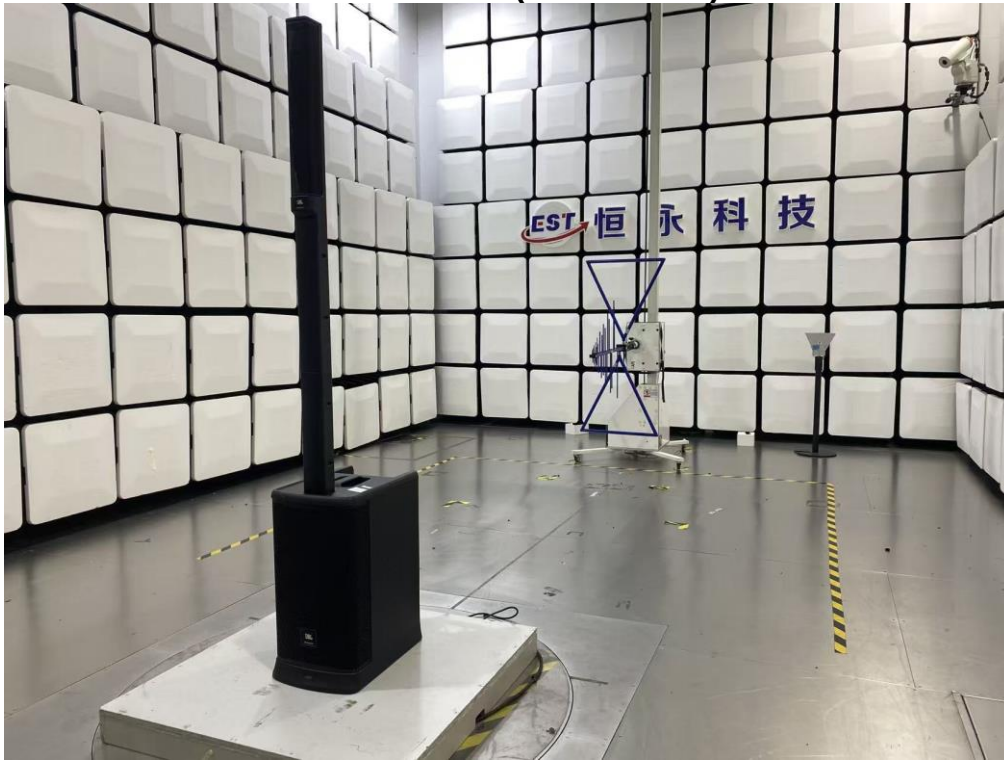
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

## 5. TEST SETUP PHOTO

Conducted Test



### Radiated Test (Below 1GHz)



## 6. EUT PHOTO

**External Photos**  
M/N: EON ONE MK2



**External Photos**  
M/N: EON ONE MK2



**External Photos**  
M/N: EON ONE MK2



**External Photos**  
M/N: EON ONE MK2



**External Photos**  
M/N: EON ONE MK2



**External Photos**  
M/N: EON ONE MK2

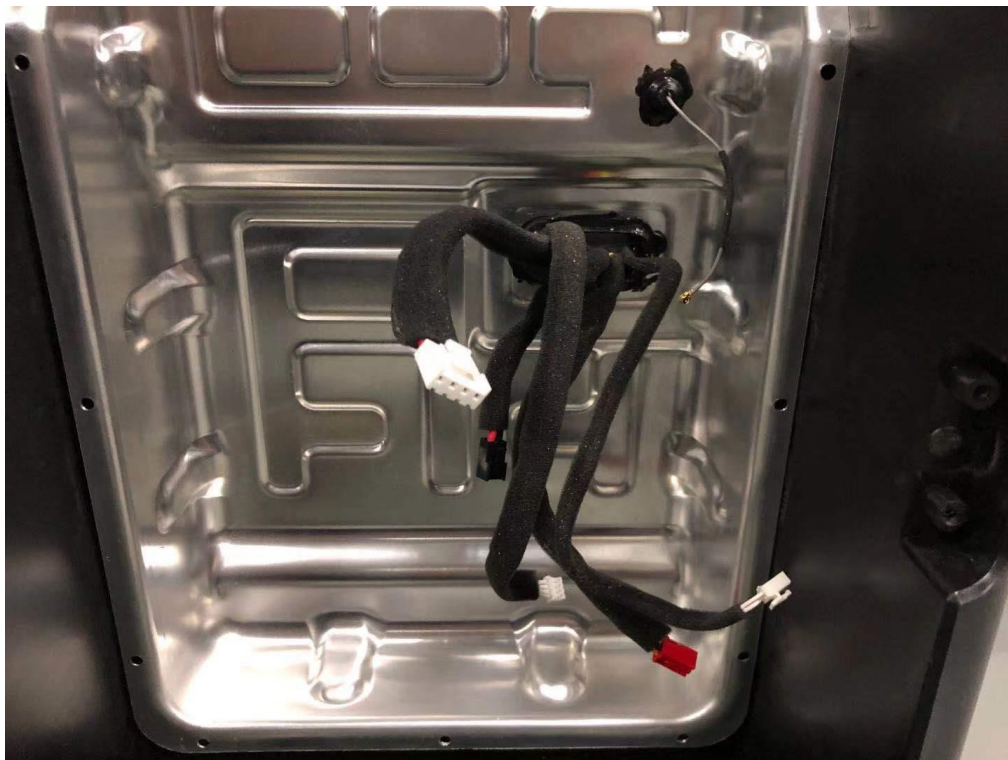


### Internal Photos

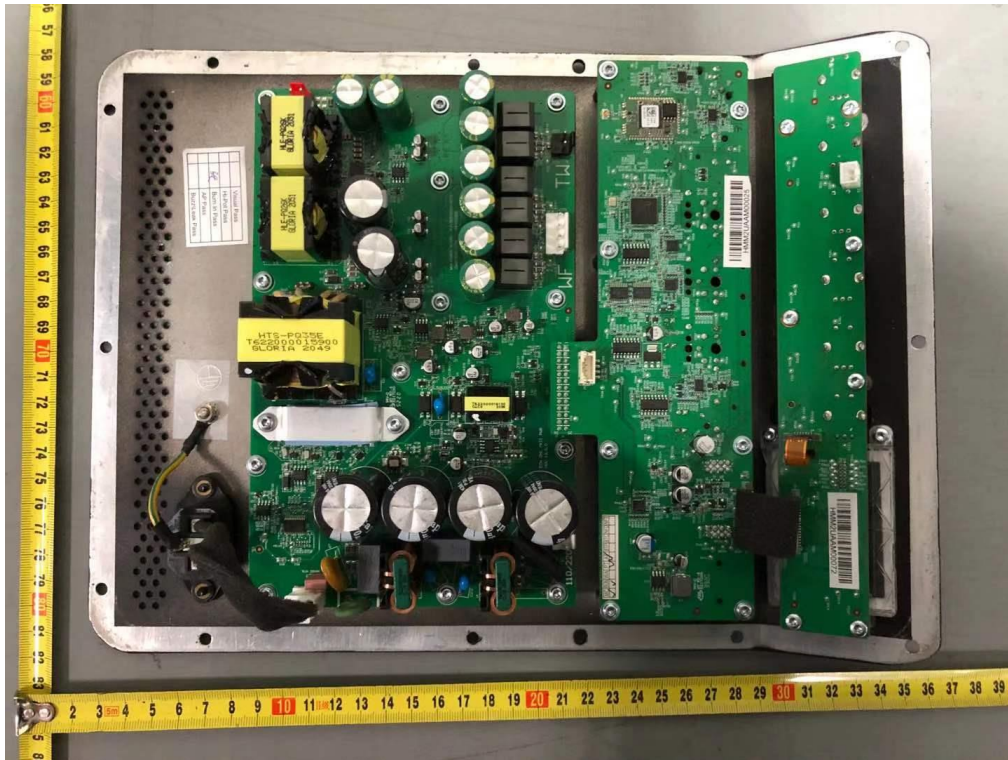
M/N: EON ONE MK2



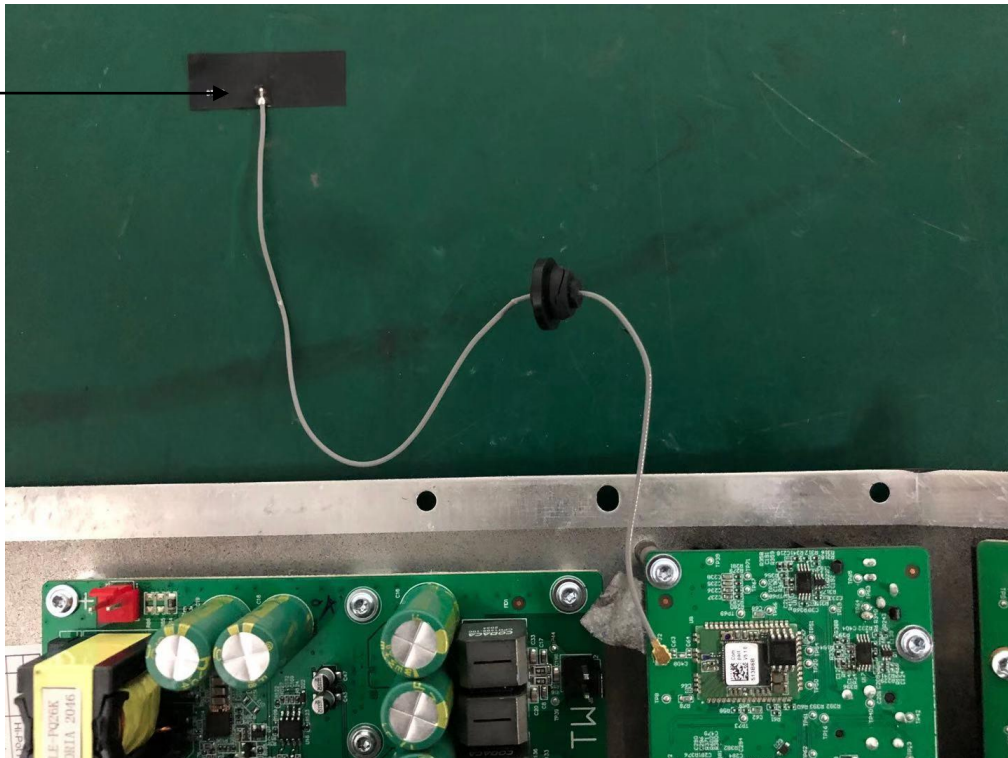
**Internal Photos**  
M/N: EON ONE MK2



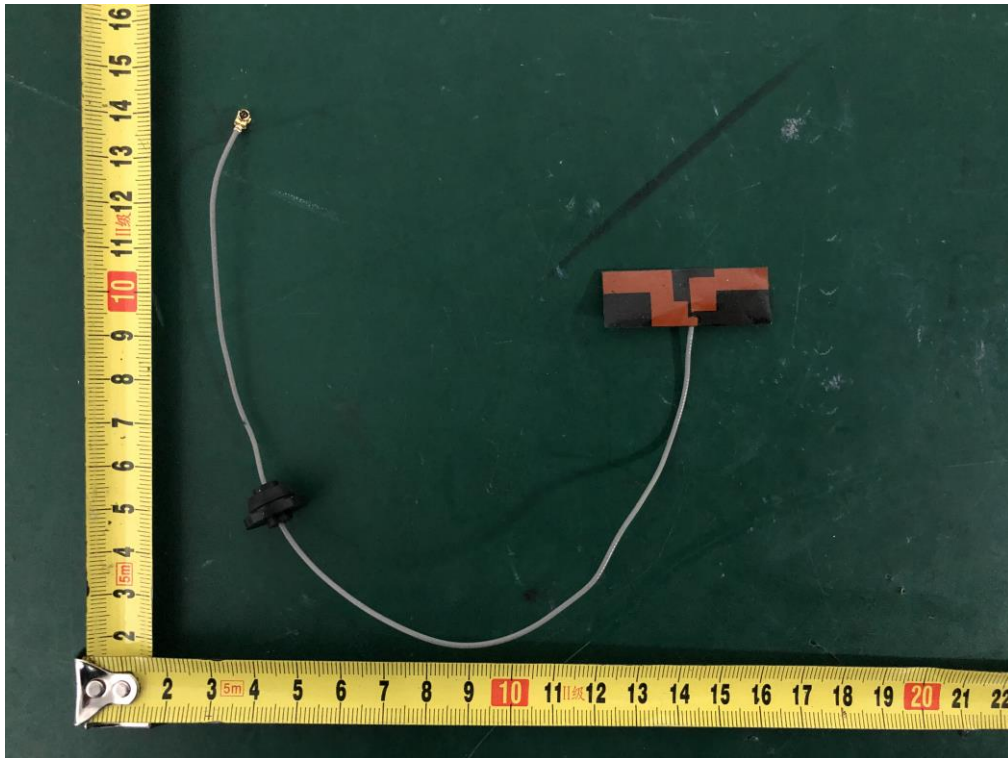
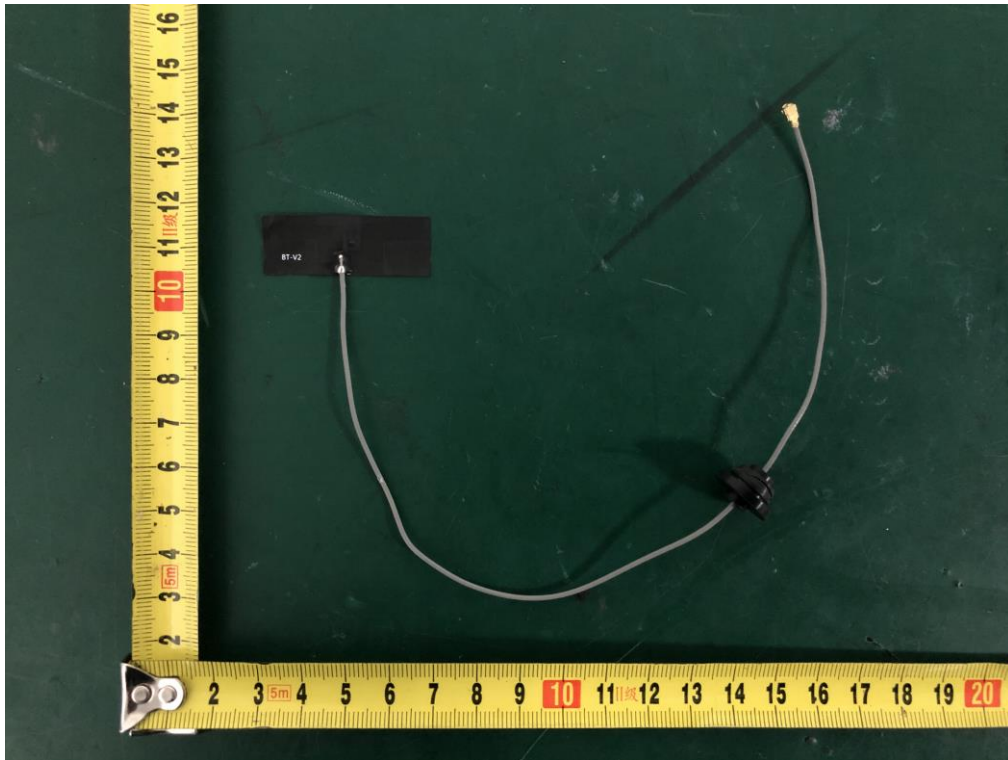
### Internal Photos M/N: EON ONE MK2



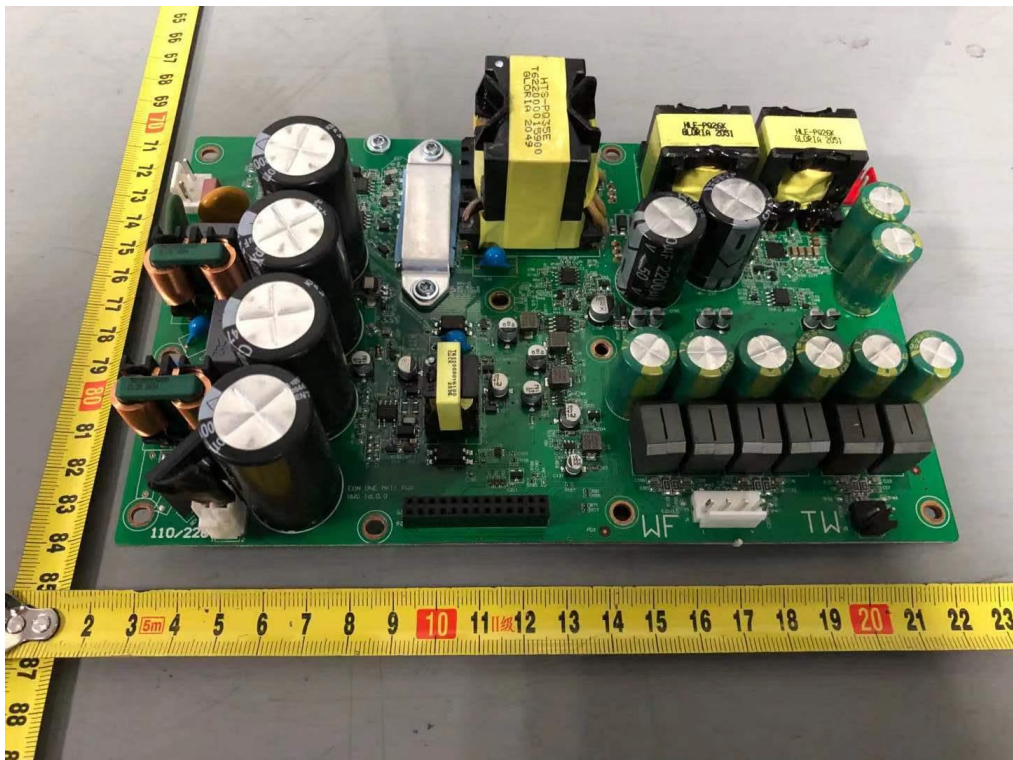
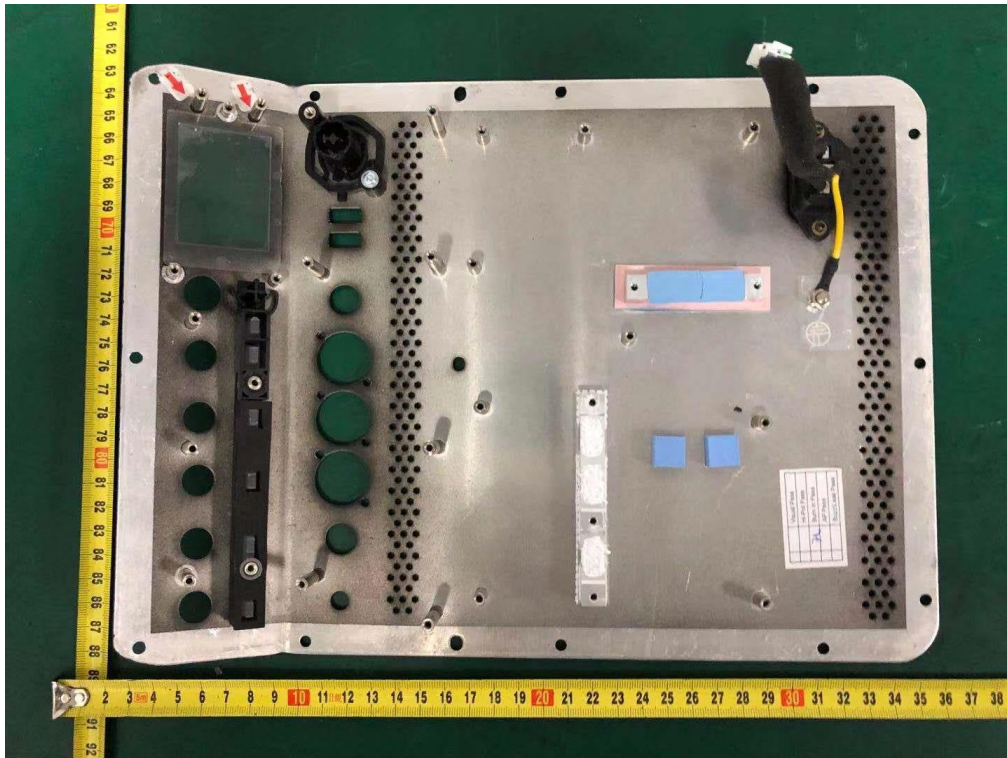
Bluetooth  
Antenna



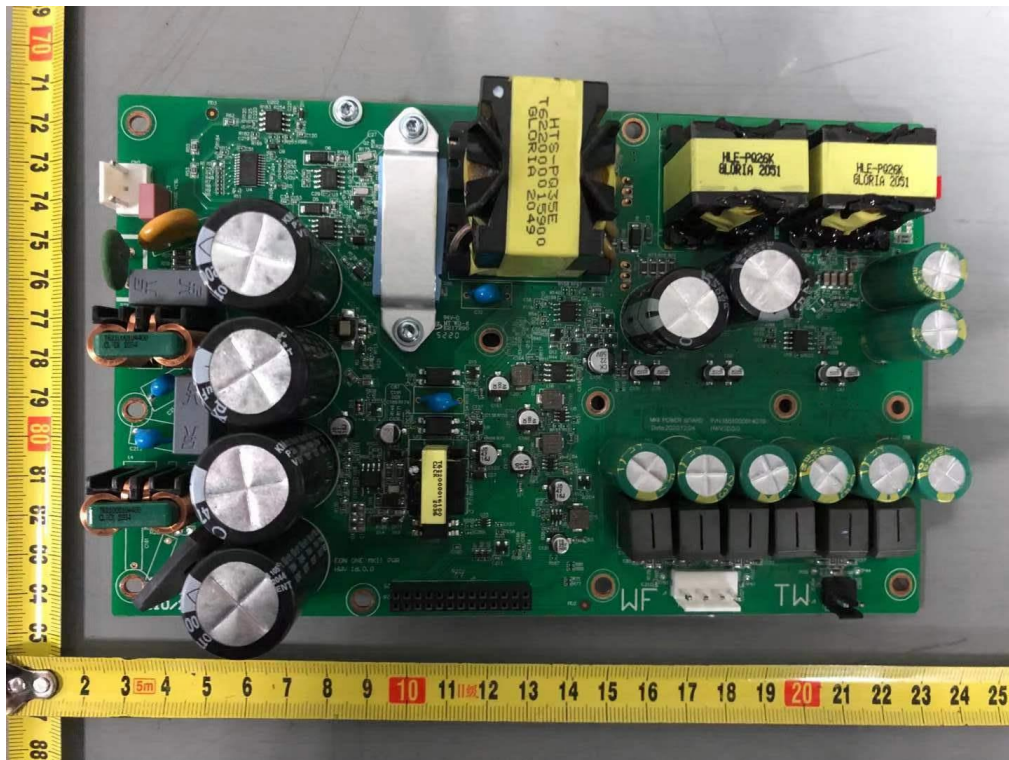
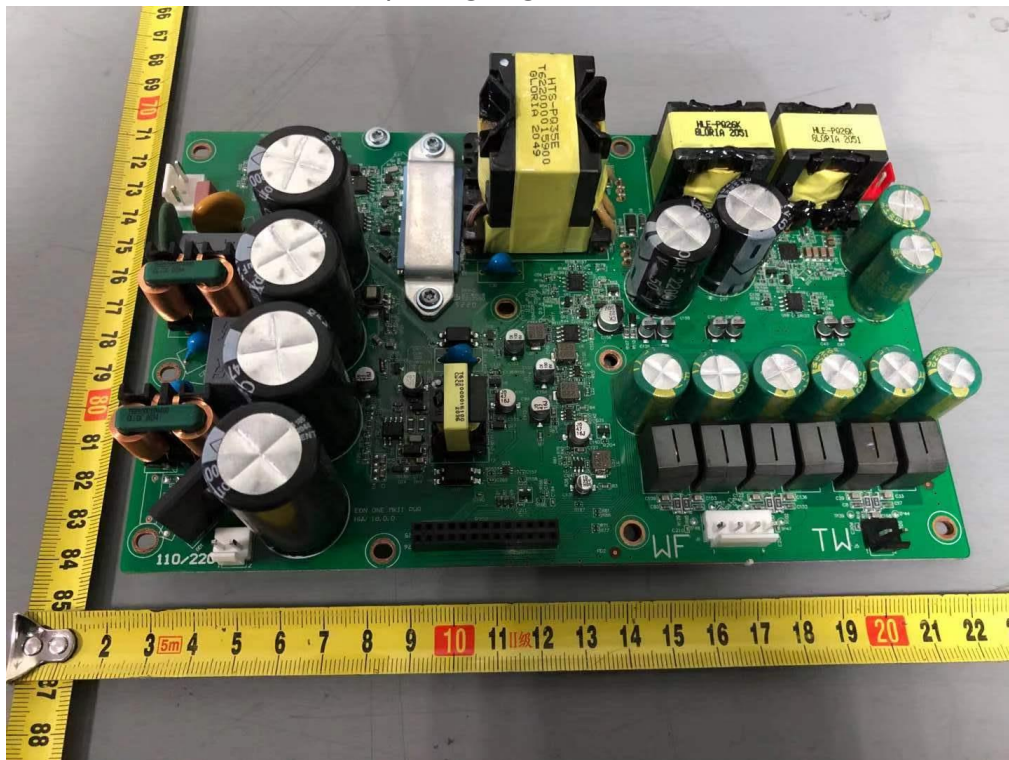
**Internal Photos**  
M/N: EON ONE MK2



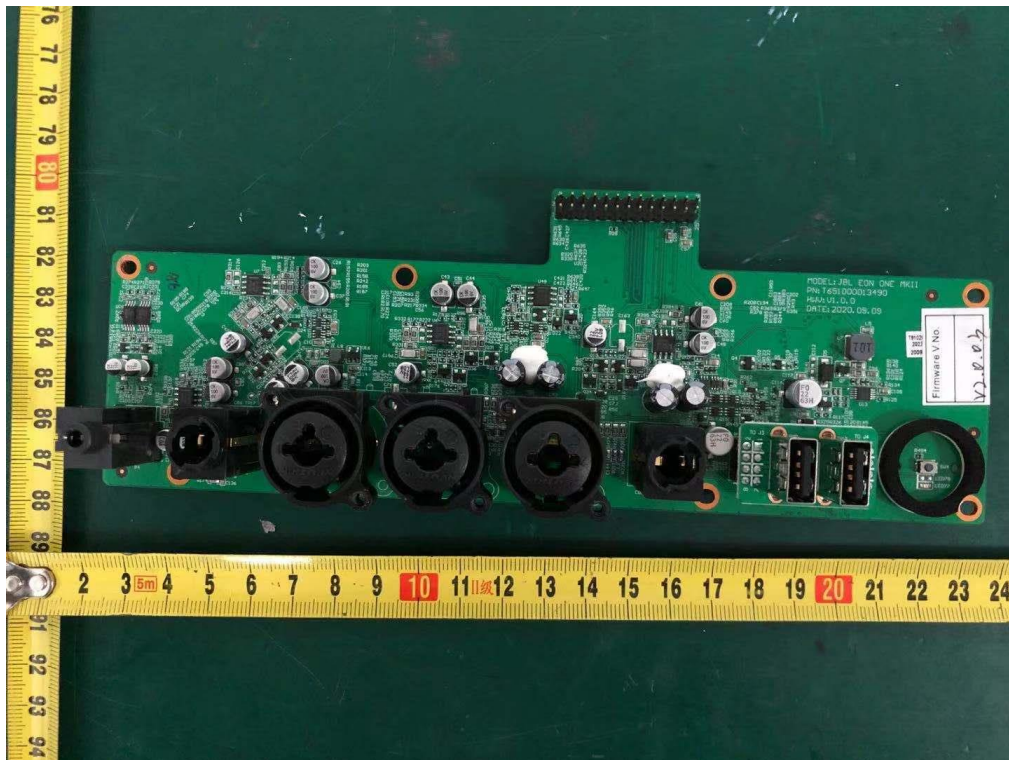
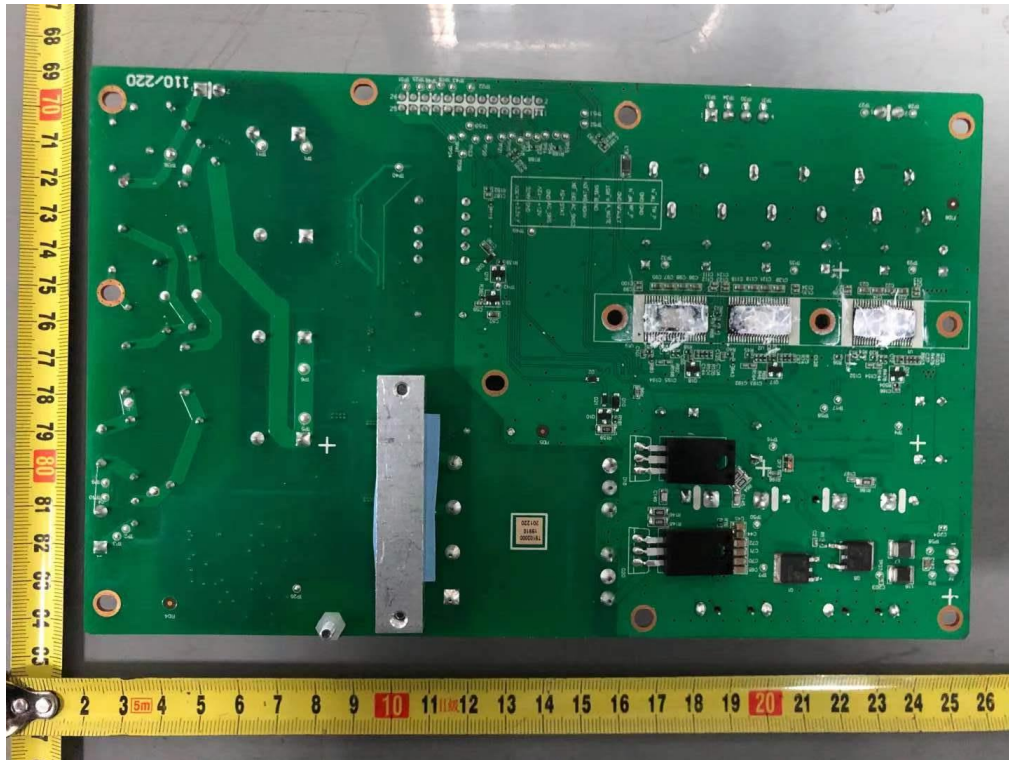
# **Internal Photos** M/N: EON ONE MK2



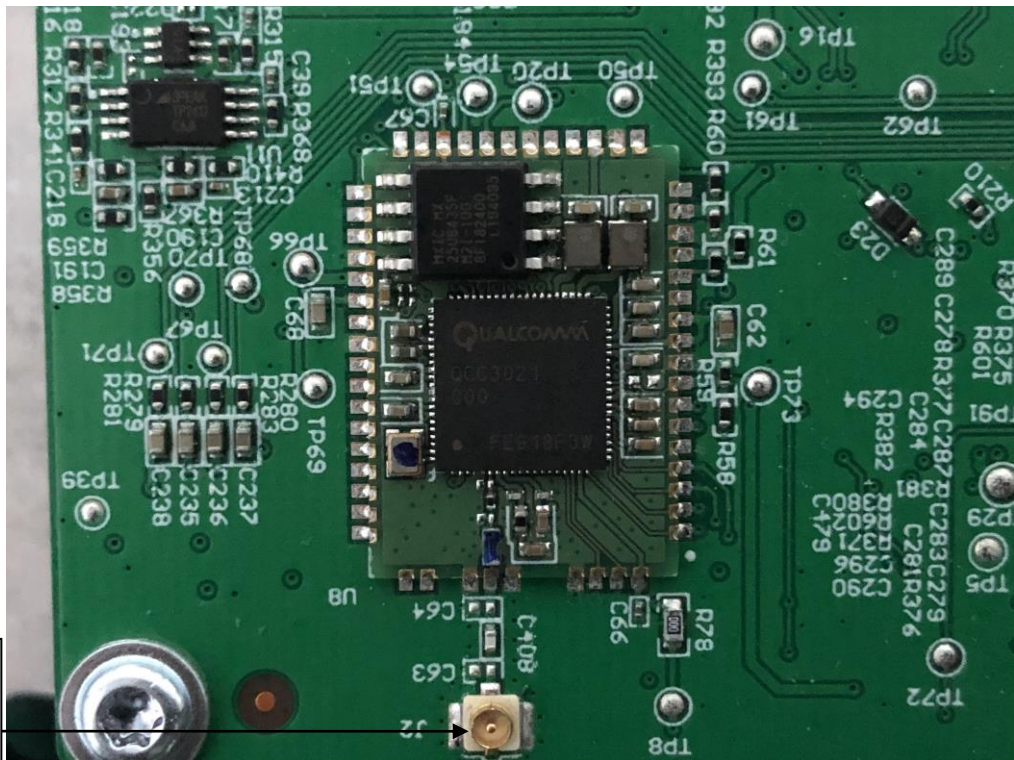
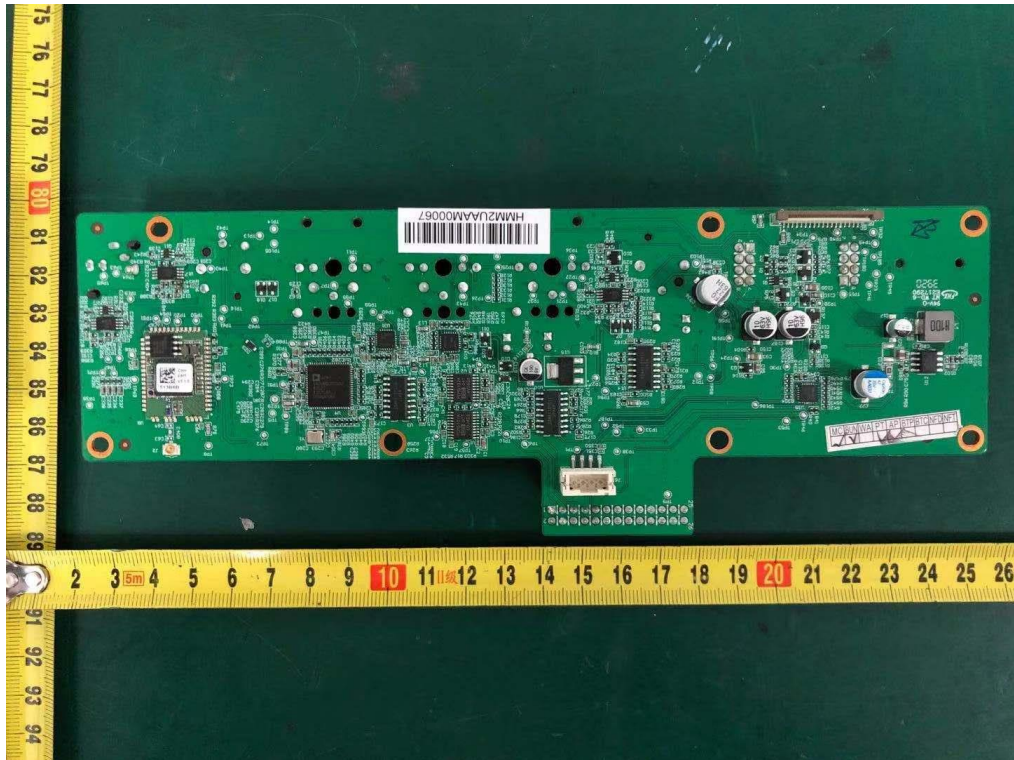
# Internal Photos M/N: EON ONE MK2



# **Internal Photos** M/N: EON ONE MK2

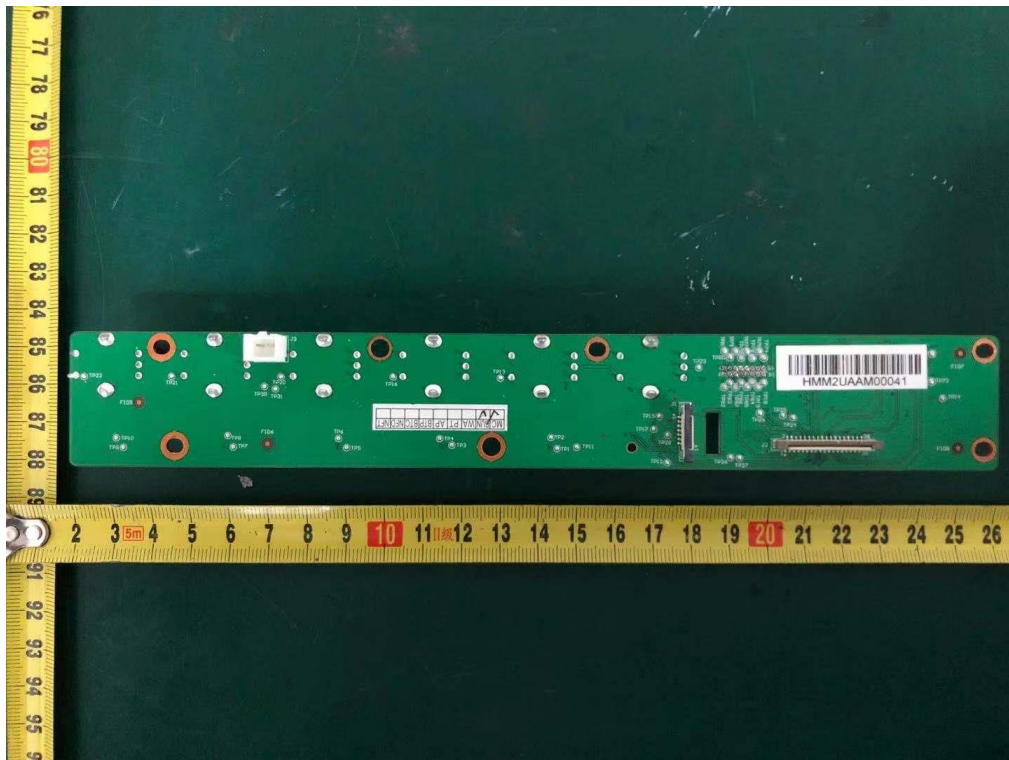
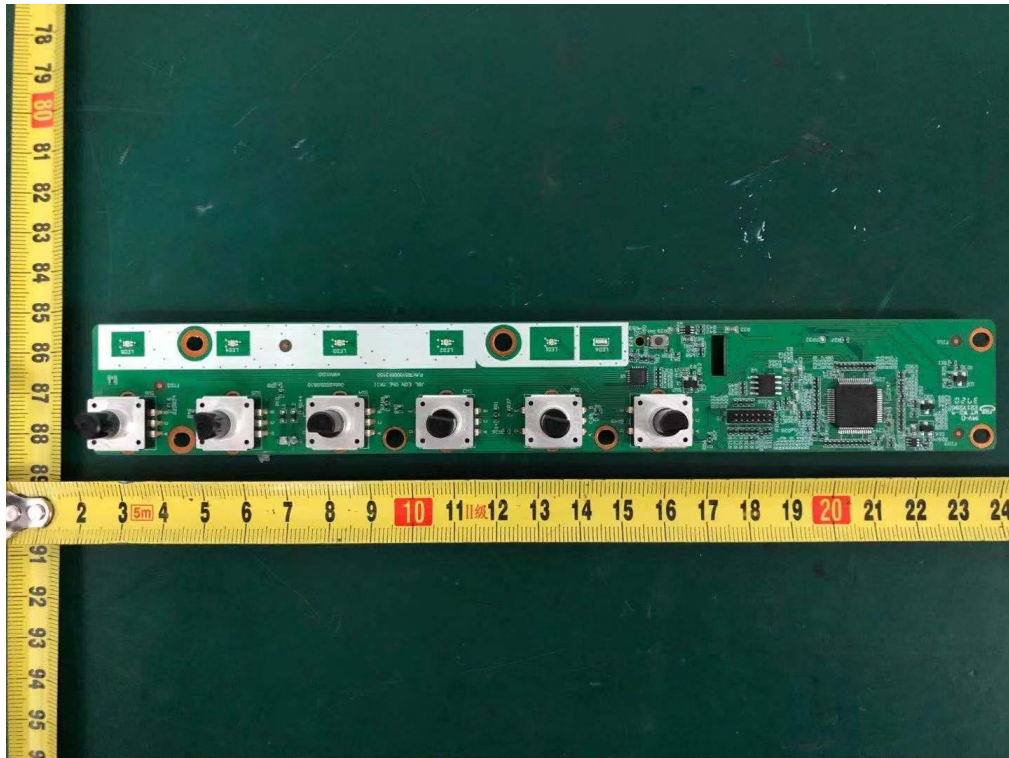


# Internal Photos M/N: EON ONE MK2

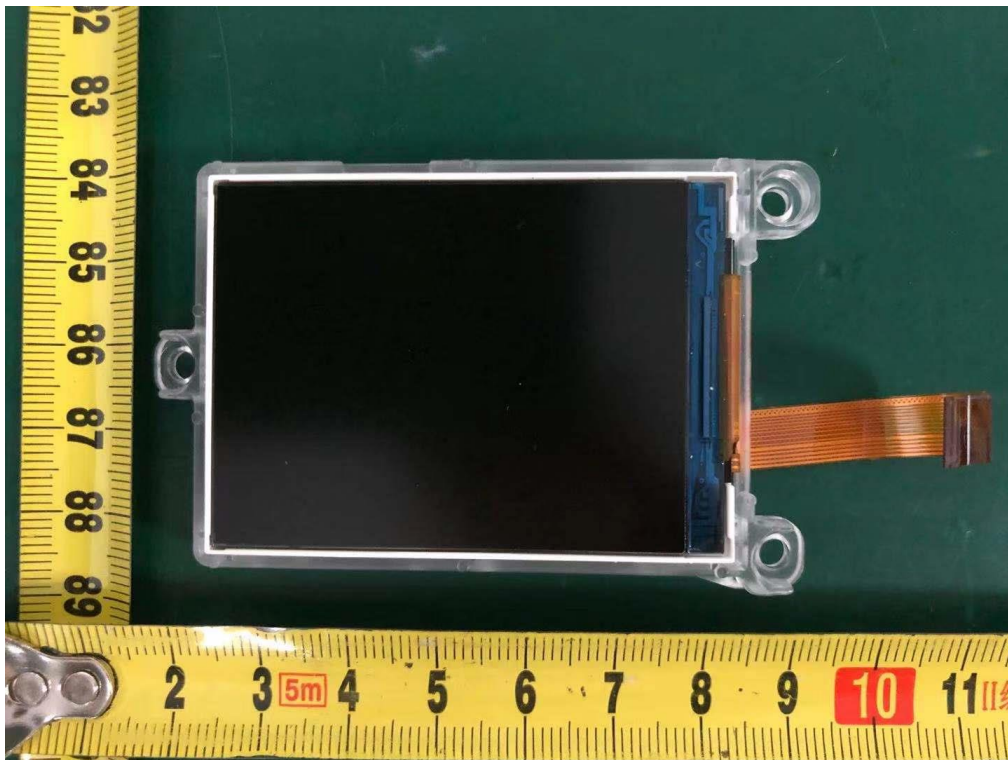
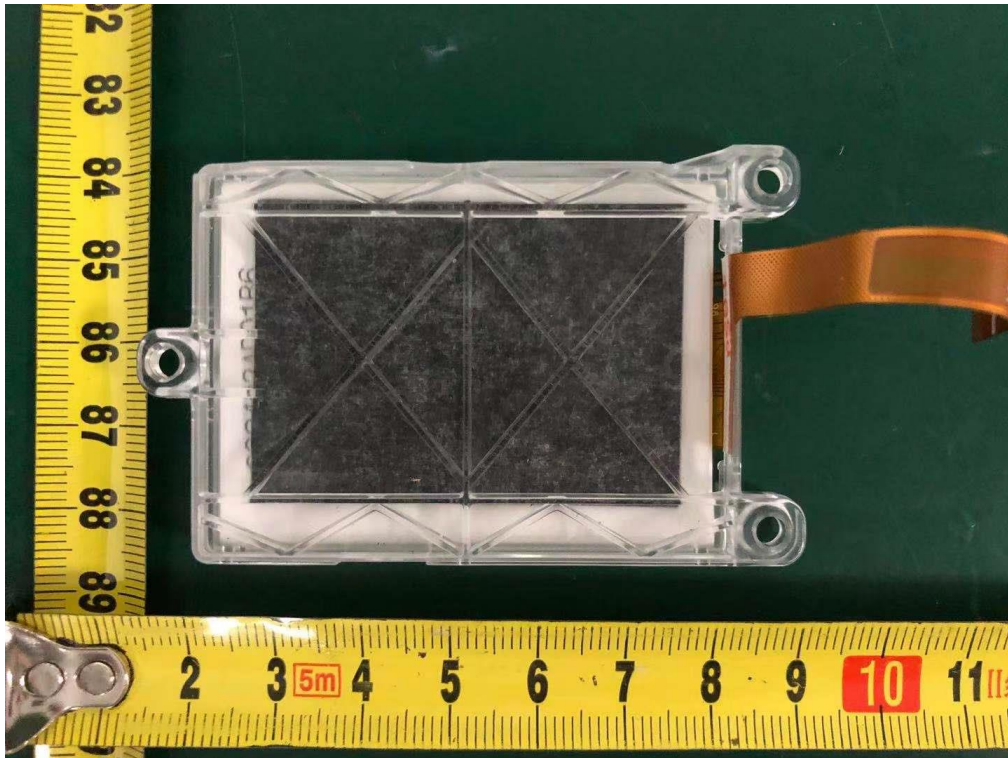


Bluetooth  
Antenna  
Connecto

**Internal Photos**  
M/N: EON ONE MK2

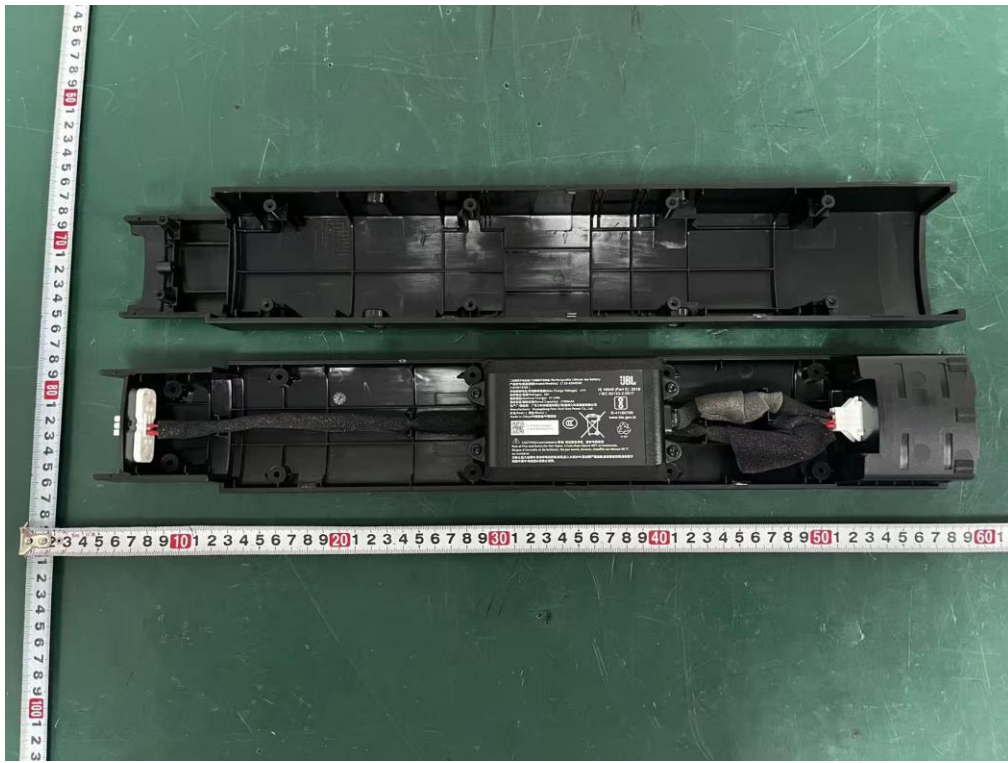


**Internal Photos**  
M/N: EON ONE MK2



## New Photos

### Internal Photos M/N: EON ONE MK2



### Internal Photos

M/N: EON ONE MK2



End of Test Report