



Shenzhen GUOREN Certification Technology Service Co., Ltd.

101#, Building K & Building T, The Second Industrial Zone, Jiazitang Community,  
Fenghuang Street, Guangming District, Shenzhen, China

## TEST REPORT

### 47 CFR FCC Part 15 Subpart B (Class A)

Radio Frequency Devices – Unintentional Radiators – Limits and methods of  
measurement

ANSI C63.4: 2014

American National Standard for Methods of Measurement of Radio-Noise  
Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of  
9 kHz to 40 GHz

Report Reference No.....: GRCTR220502001

FCC ID.....: 2A6XW-NOVAX

Compiled by

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Date of issue.....: May. 18, 2022

Testing Laboratory Name.....: Shenzhen GUOREN Certification Technology Service Co., Ltd.

Address.....: 101#, Building K & Building T, The Second Industrial Zone, Jiazitang  
Community, Fenghuang Street, Guangming District, Shenzhen,  
China

Applicant's name.....: Allegro 3D, Inc.

Address.....: 6868 Nancy Ridge Drive, San Diego, CA 92121, USA

Test specification.....:

Standard.....: 47 CFR FCC Part 15 Subpart B (Class A)  
ANSI C63.4: 2014

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Test item description.....: BIONOVA X

Trade Mark.....: /

Manufacturer.....: Beijing ZhiGuang Technology Co. Ltd.

Model/Type reference.....: NOVAX-1001

List Model.....: /

Ratings.....: AC 100-240V 50/60Hz

Result.....: PASS

## TEST REPORT

Equipment under Test : BIONOVA X

Model /Type : NOVAX-1001

Listed Models : /

**Applicant** : **Allegro 3D, Inc.**

Address : 6868 Nancy Ridge Drive, San Diego, CA 92121, USA

**Manufacturer** : **Beijing ZhiGuang Technology Co. Ltd.**

Address : No. 22 Information Road, Shichuang Zonghe Building East  
6th Fl., Haidian District, Beijing, 100085, P.R. China

|                     |             |
|---------------------|-------------|
| <b>Test Result:</b> | <b>PASS</b> |
|---------------------|-------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## **1. TEST STANDARDS**

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B \(Class A\)](#) Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement

[ANSI C63.4: 2014](#) American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

## 2. SUMMARY

### 2.1. General Remarks

|                                |   |               |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | May. 05, 2022 |
|                                |   |               |
| Testing commenced on           | : | May. 05, 2022 |
|                                |   |               |
| Testing concluded on           | : | May. 18, 2022 |

### 2.2. Product Description

|                       |                     |
|-----------------------|---------------------|
| Product Name:         | BIONOVA X           |
| Model/Type reference: | NOVAX-1001          |
| Listed Model:         | /                   |
| Testing sample ID:    | GRCTR220502001-1#   |
| Power supply:         | AC 100-240V 50/60Hz |
| Remark:/              |                     |

### 2.3. Equipment Under Test

#### Power supply system utilised

|                      |   |                                                        |                                              |
|----------------------|---|--------------------------------------------------------|----------------------------------------------|
| Power supply voltage | : | <input type="radio"/> 230V / 50 Hz                     | <input checked="" type="radio"/> 120V / 60Hz |
|                      |   | <input type="radio"/> 12 V DC                          | <input type="radio"/> 24 V DC                |
|                      |   | <input type="radio"/> Other (specified in blank below) |                                              |

/

### 2.4. EUT operation mode

As the function of the EUT, test mode selected to test as below to conform this standard:

| Operation mode | Description |
|----------------|-------------|
| Mode 1         | Working     |

| Test item          | Test mode |
|--------------------|-----------|
| Radiated Emission  | Mode 1    |
| Conducted Emission | Mode 1    |

### 2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

| Item               | Manufacturer | Description | Model | Certificate | Note |
|--------------------|--------------|-------------|-------|-------------|------|
| 1 <sup>Note1</sup> | /            | /           | /     | /           | /    |
| 2 <sup>Note1</sup> | /            | /           | /     | /           | /    |

Note1: This Auxiliary used during the test is provided by the test laboratory.

### 2.6. Modifications

No modifications were implemented to meet testing criteria

### 3. TEST ENVIRONMENT

#### 3.1. Address of the test laboratory

**Shenzhen GUOREN Certification Technology Service Co., Ltd.**

101#, Building K & Building T, The Second Industrial Zone, Jiazitang Community, Fenghuang Street, Guangming District, Shenzhen, China

#### 3.2. Test Facility

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

**FCC-Registration No.: 920798    Designation Number: CN1304**

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

**A2LA-Lab Cert. No.: 6202.01**

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

**ISED#: 27264    CAB identifier: CN0115**

Shenzhen GUOREN Certification Technology Service Co., Ltd has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

**CNAS-Lab Code: L15631**

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories for the Competence of Testing and Calibration Laboratories.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

#### 3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 15-35 ° C    |
|                       |              |
| Humidity:             | 30-60 %      |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

#### 3.4. Test Description

| Emission Measurement |                                                         |      |
|----------------------|---------------------------------------------------------|------|
| Radiated Emission    | 47 CFR FCC Part 15 Subpart B Class A<br>ANSI C63.4 2014 | PASS |
| Conducted Emission   | 47 CFR FCC Part 15 Subpart B Class A<br>ANSI C63.4 2014 | PASS |

Remark:1. N/A means "not applicable".

2. The measurement uncertainty is not included in the test result.

### 3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen GUOREN Certification Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GUOREN Certification Technology Service Co., Ltd.:

| Test                  | Range      | Measurement Uncertainty | Notes |
|-----------------------|------------|-------------------------|-------|
| Radiated Emission     | 30~1000MHz | 4.06 dB                 | (1)   |
| Radiated Emission     | 1~18GHz    | 5.14 dB                 | (1)   |
| Conducted Disturbance | 0.15~30MHz | 2.14 dB                 | (1)   |

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

### 3.6. Equipments Used during the Test

| Conducted Emission |                   |                 |            |               |            |            |
|--------------------|-------------------|-----------------|------------|---------------|------------|------------|
| Item               | Test Equipment    | Manufacturer    | Model No.  | Equipment No. | Last Cal.  | Cal.Due    |
| 1                  | EMI Test Receiver | R&S             | ESPI       | GRCTEE017     | 2021/10/30 | 2022/10/29 |
| 2                  | LISN              | R&S             | ENV216     | GRCTEE009     | 2021/10/30 | 2022/10/29 |
| 3                  | LISN              | R&S             | ENV216     | GRCTEE010     | 2021/10/30 | 2022/10/29 |
| 4                  | EMI Test Software | ROHDE & SCHWARZ | ESK1-V1.71 | GRCTEE060     | N/A        | N/A        |

| Radiated Emission |                         |                |            |               |            |            |
|-------------------|-------------------------|----------------|------------|---------------|------------|------------|
| Item              | Test Equipment          | Manufacturer   | Model No.  | Equipment No. | Last Cal.  | Cal.Due    |
| 1                 | Ultra-Broadband Antenna | Schwarzbeck    | VULB9163   | GRCTEE018     | 2020/10/25 | 2023/10/24 |
| 2                 | Horn Antenna            | Schwarzbeck    | BBHA 9120D | GRCTEE019     | 2020/10/25 | 2023/10/24 |
| 3                 | Amplifier               | Schwarzbeck    | BBV 9745   | GRCTEE021     | 2021/10/30 | 2022/10/29 |
| 4                 | Amplifier               | Taiwan chengyi | EMC051845B | GRCTEE022     | 2021/10/30 | 2022/10/29 |
| 5                 | EMI Test Software       | Fera           | EZ-EMC     | GRCTEE061     | N/A        | N/A        |

## 4. TEST CONDITIONS AND RESULTS

### 4.1. EMISSION

#### 4.1.1. LIMITS OF DISTURBANCE (CLASS A)

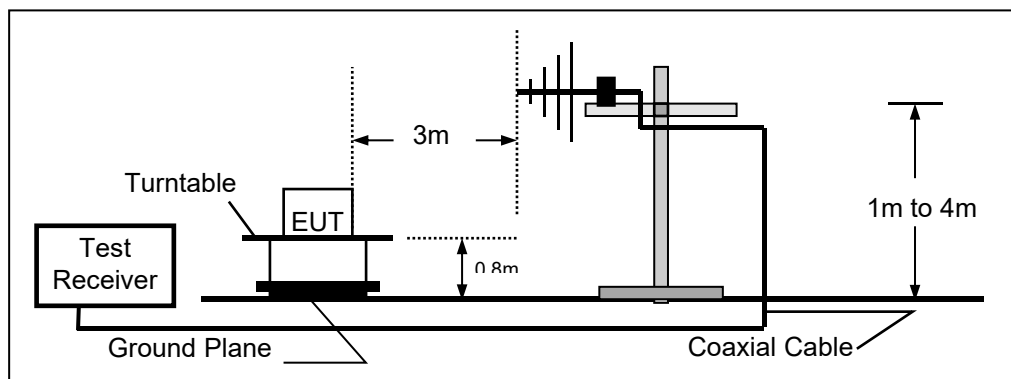
| Frequency (MHz) | Distance (Meters) | Field Strengths Limits (dB $\mu$ V/m) |
|-----------------|-------------------|---------------------------------------|
| 30 ~ 88         | 3                 | 49.5                                  |
| 88~216          | 3                 | 53.5                                  |
| 216 ~ 960       | 3                 | 56                                    |
| Above 960(AV)   | 3                 | 60                                    |
| Above 960(PK)   | 3                 | 80                                    |

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

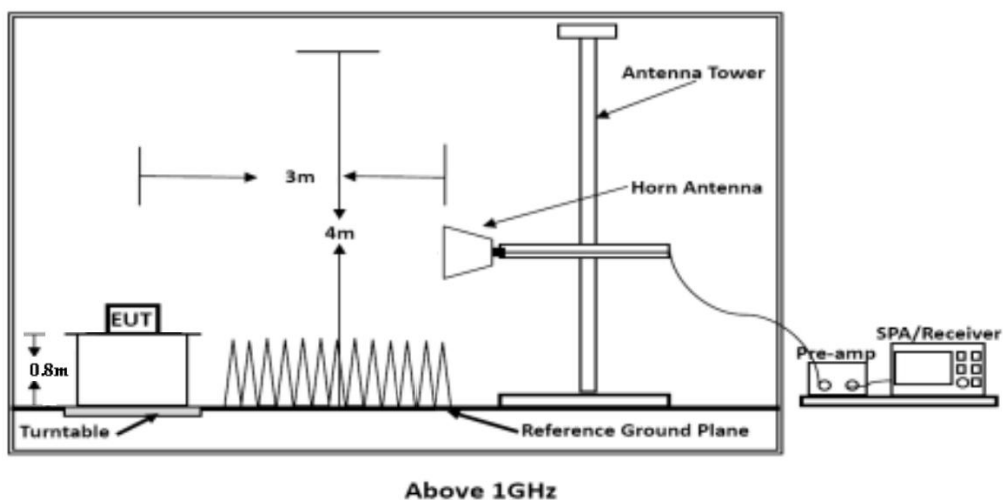
(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

#### 4.1.2. TEST CONFIGURATION

a) Radiated emission test set-up, frequency below 1000MHz:



b) Radiated emission test set-up, frequency above 1000MHz:



#### 4.1.3. TEST PROCEDURE

EUT is tested in Semi-Anechoic Chamber. EUT is placed on a nonmetal table which is 0.8 meter above a grounded turntable. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level. EUT is set 3 meters away from the center of receiving antenna. The antenna can move up and down from 1 to 4 meter to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set on the test.

#### 4.1.4. TEST RESULTS

##### **Passed**

Remark:

Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below.

Remark: The highest frequency of the internal sources of the EUT is 1.5GHz, it is more than 108 MHz, the measurement shall only be made up to 18GHz.

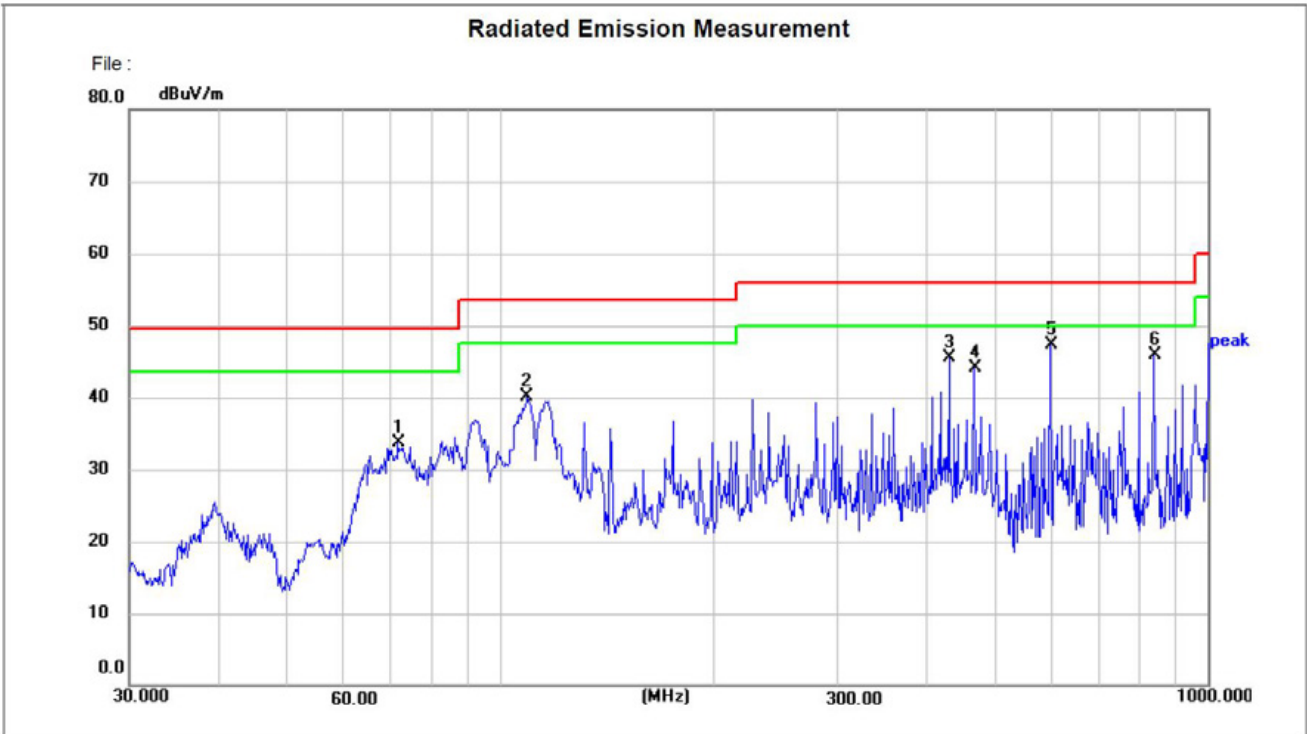
Please refer to the below test data:

Polarization:

Horizontal

Test mode:

Mode 1



Site LAB  
Limit: FCC Part15 RE-Class A(3m)\_30-1000MHz  
EUT:  
M/N:  
Mode:  
Note:

Polarization: **Horizontal**  
Power: AC120V/60Hz  
Distance: 3m

Temperature: 24.5(C)  
Humidity: 52 %

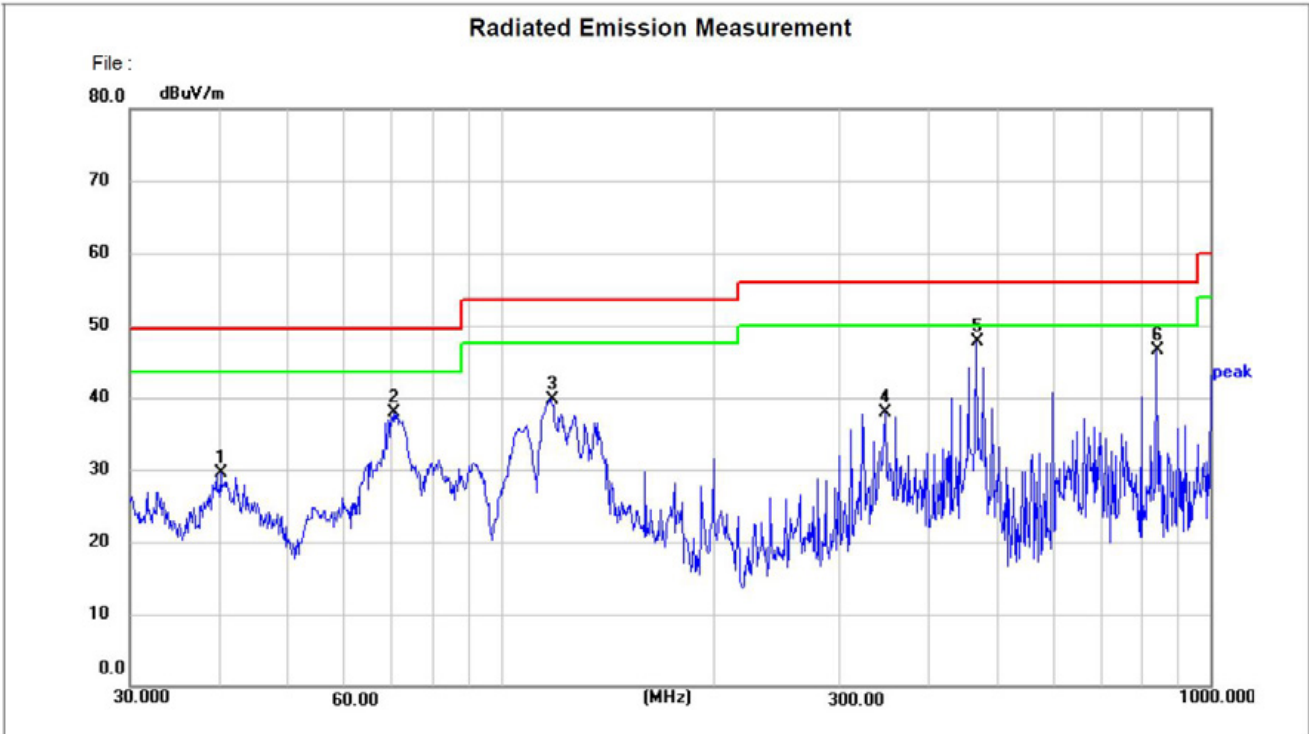
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 71.8320         | 55.12          | -21.33        | 33.79          | 49.50          | -15.71      | peak     | 199         | 141            | P   |        |
| 2   | 109.4116        | 59.41          | -19.31        | 40.10          | 53.50          | -13.40      | peak     | 199         | 350            | P   |        |
| 3   | 431.0316        | 60.41          | -14.91        | 45.50          | 56.00          | -10.50      | peak     | 199         | 350            | P   |        |
| 4   | 467.2349        | 58.31          | -14.30        | 44.01          | 56.00          | -11.99      | peak     | 199         | 350            | P   |        |
| 5 * | 599.3212        | 58.05          | -10.71        | 47.34          | 56.00          | -8.66       | peak     | 100         | 40             | P   |        |
| 6   | 839.1818        | 54.67          | -8.77         | 45.90          | 56.00          | -10.10      | peak     | 199         | 55             | P   |        |

Polarization:

Vertical

Test mode:

Mode 1



Site LAB

Limit: FCC Part15 RE-Class A(3m)\_30-1000MHz

EUT:

M/N:

Mode:

Note:

Polarization: **Vertical**

Power: AC120V/60Hz

Distance: 3m

Temperature: 24.5(C)

Humidity: 52 %

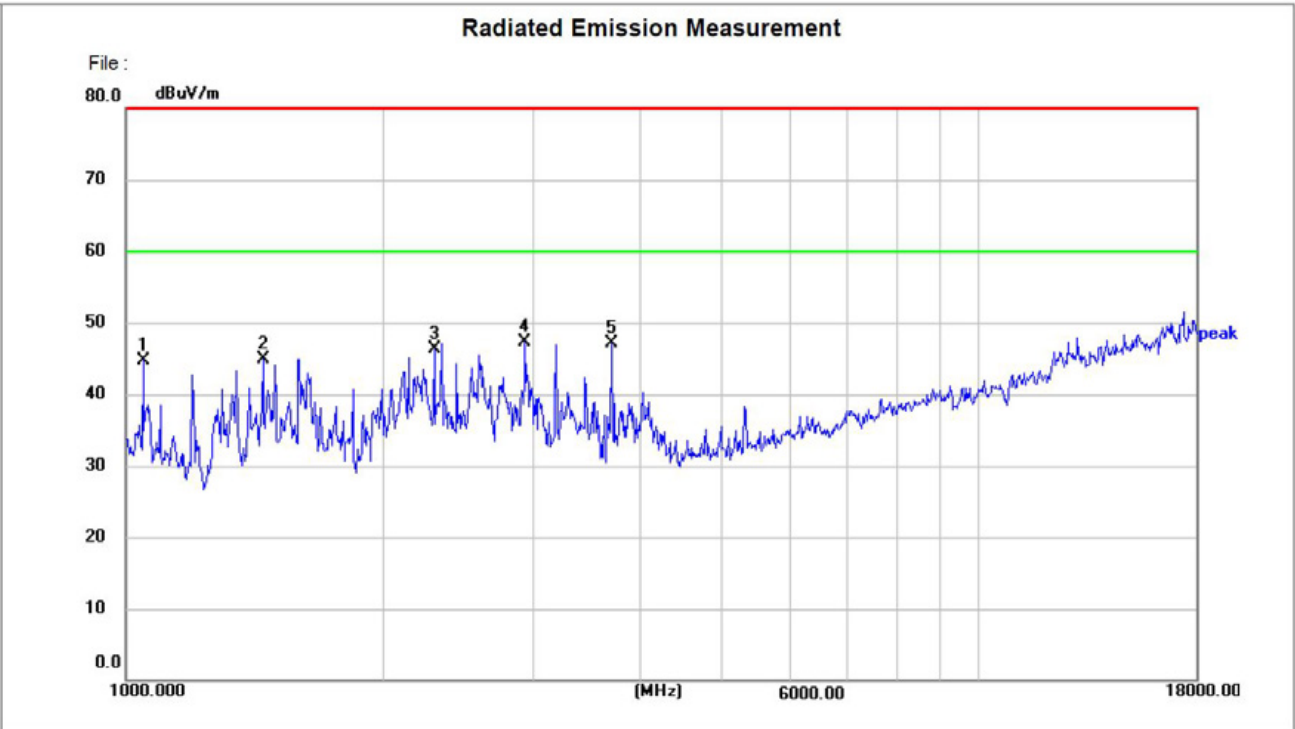
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 40.2757         | 47.72          | -18.21        | 29.51          | 49.50          | -19.99      | peak     | 100         | 233            | P   |        |
| 2   | 70.5836         | 58.85          | -21.01        | 37.84          | 49.50          | -11.66      | peak     | 100         | 10             | P   |        |
| 3   | 117.7725        | 59.54          | -19.76        | 39.78          | 53.50          | -13.72      | peak     | 100         | 10             | P   |        |
| 4   | 348.0274        | 54.26          | -16.39        | 37.87          | 56.00          | -18.13      | peak     | 100         | 10             | P   |        |
| 5 * | 467.2349        | 61.91          | -14.30        | 47.61          | 56.00          | -8.39       | peak     | 100         | 336            | P   |        |
| 6   | 839.1818        | 55.19          | -8.77         | 46.42          | 56.00          | -9.58       | peak     | 100         | 71             | P   |        |

Polarization:

Horizontal

Test mode:

Mode 1



Site LAB

Limit: FCC Part15 RE-Class A(3m)\_Above

EUT: 1GHz\_PK

M/N:

Mode:

Note:

Polarization: *Horizontal*

Power: AC120V/60Hz

Distance: 3m

Temperature: 24.5(C)

Humidity: 52 %

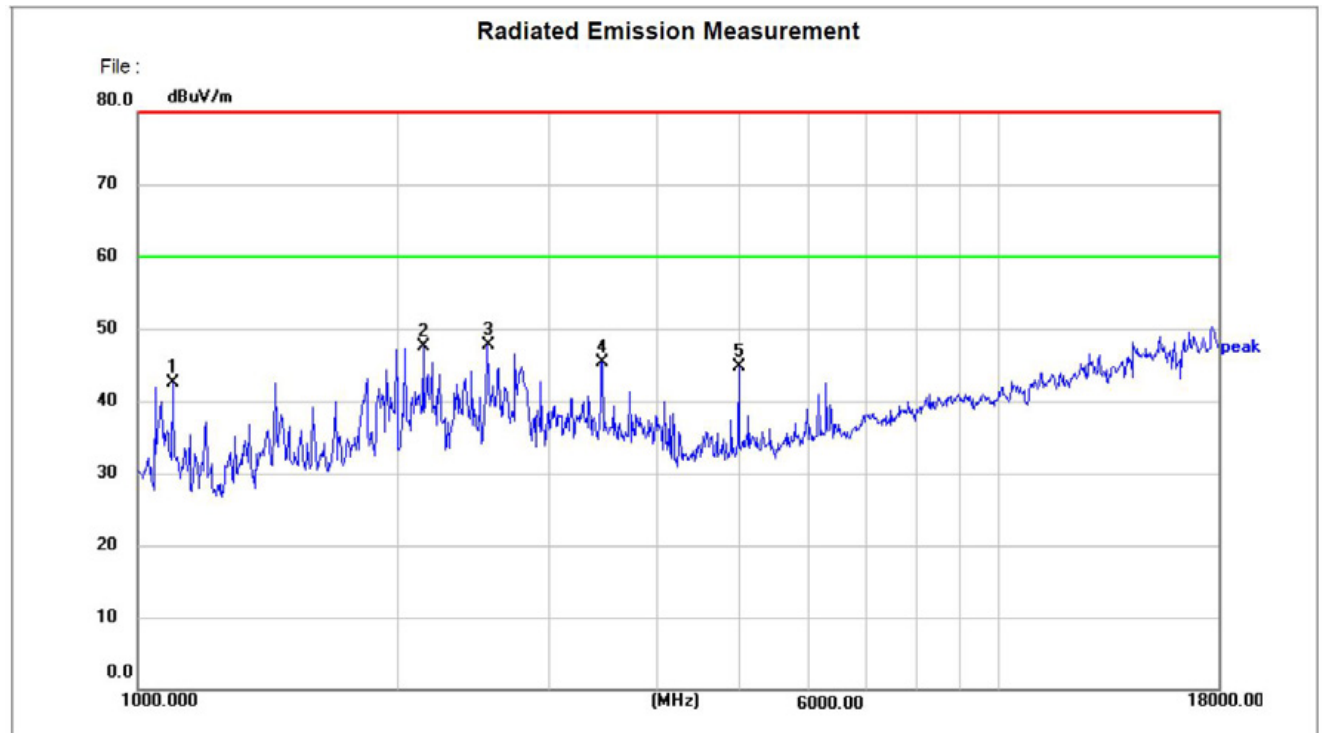
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 1047.332        | 72.30          | -27.60        | 44.70          | 80.00          | -35.30      | peak     | 200         | 158            | P   |        |
| 2   | 1447.688        | 71.85          | -26.91        | 44.94          | 80.00          | -35.06      | peak     | 100         | 107            | P   |        |
| 3   | 2298.892        | 71.59          | -25.34        | 46.25          | 80.00          | -33.75      | peak     | 100         | 132            | P   |        |
| 4 * | 2939.115        | 71.64          | -24.29        | 47.35          | 80.00          | -32.65      | peak     | 100         | 146            | P   |        |
| 5   | 3714.443        | 70.18          | -23.05        | 47.13          | 80.00          | -32.87      | peak     | 200         | 350            | P   |        |

Polarization:

Vertical

Test mode:

Mode 1



Site LAB

Polarization: **Vertical**

Temperature: 24.5(C)

Limit: FCC Part15 RE-Class A(3m)\_Above

Power: AC120V/60Hz

Humidity: 52 %

EUT: 1GHz\_PK

Distance: 3m

M/N:

Mode:

Note:

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 1096.904        | 69.81          | -27.22        | 42.59          | 80.00          | -37.41      | peak     | 100         | 341            | P   |        |
| 2   | 2144.825        | 72.39          | -24.82        | 47.57          | 80.00          | -32.43      | peak     | 200         | 341            | P   |        |
| 3 * | 2543.625        | 72.03          | -24.26        | 47.77          | 80.00          | -32.23      | peak     | 200         | 359            | P   |        |
| 4   | 3455.508        | 68.26          | -22.96        | 45.30          | 80.00          | -34.70      | peak     | 100         | 8              | P   |        |
| 5   | 4988.058        | 63.42          | -18.69        | 44.73          | 80.00          | -35.27      | peak     | 100         | 265            | P   |        |

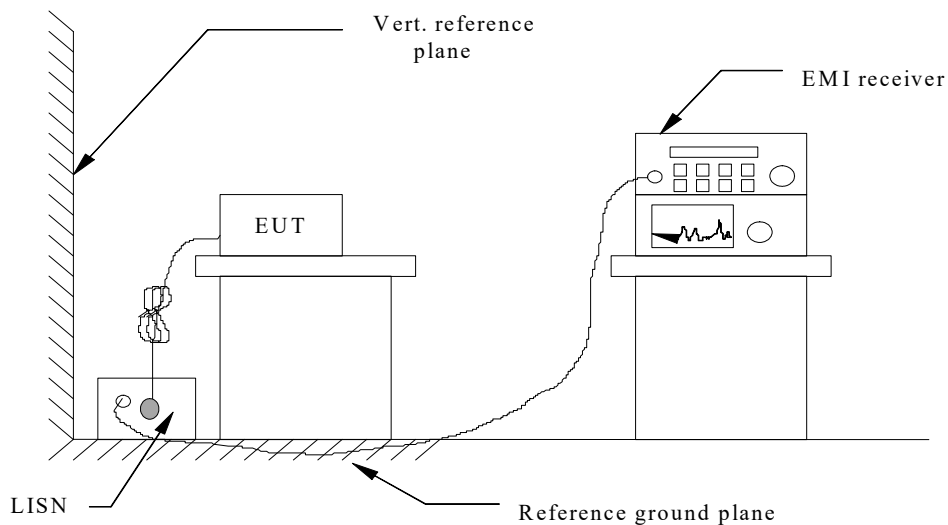
## 4.2. Conducted Emission

### 4.2.1. LIMITS OF DISTURBANCE (CLASS A)

| Frequency Range (MHz) | Limits (dBuV) |         |
|-----------------------|---------------|---------|
|                       | Quasi-Peak    | Average |
| 0.150~0.500           | 79            | 66      |
| 0.500~30.000          | 73            | 60      |

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

### 4.2.2. TEST CONFIGURATION



### 4.2.3. TEST PROCEDURE

EUT is placed on a nonmetal table which is 0.8 meter (or 0.1 meter for floor-stood equipments) above the grounded reference plane. Connect the power line of the EUT to the LISN. Voltage of the power supply is varied over a range of 0.9 to 1.1 times of the rated voltage in order to check whether the level of disturbance varies considerably with the supply voltage at the selected frequency about 160KHz. Perform an initial measurement on each line with peak detector to identify the frequencies where the maximum disturbances may occur. Then measure and record the maximum disturbances with quasi-peak and average detector.

### 4.2.4. TEST RESULTS

#### Passed

Remark:

Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below.

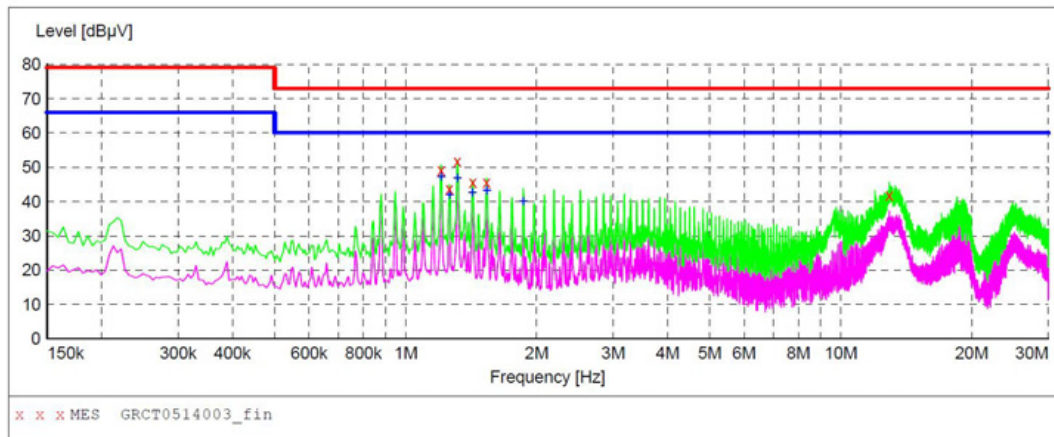
Please refer to the below test data:

Line:

L

Test mode:

Mode 1

**MEASUREMENT RESULT: "GRCT0514003\_fin"**

5/14/2022 9:52AM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 1.207500         | 49.20         | 9.9          | 73            | 23.8         | QP       | L1   | GND |
| 1.261500         | 43.70         | 9.9          | 73            | 29.3         | QP       | L1   | GND |
| 1.315500         | 51.80         | 9.9          | 73            | 21.2         | QP       | L1   | GND |
| 1.428000         | 45.60         | 9.9          | 73            | 27.4         | QP       | L1   | GND |
| 1.536000         | 45.70         | 9.9          | 73            | 27.3         | QP       | L1   | GND |
| 12.934500        | 41.80         | 10.2         | 73            | 31.2         | QP       | L1   | GND |

**MEASUREMENT RESULT: "GRCT0514003\_fin2"**

5/14/2022 9:52AM

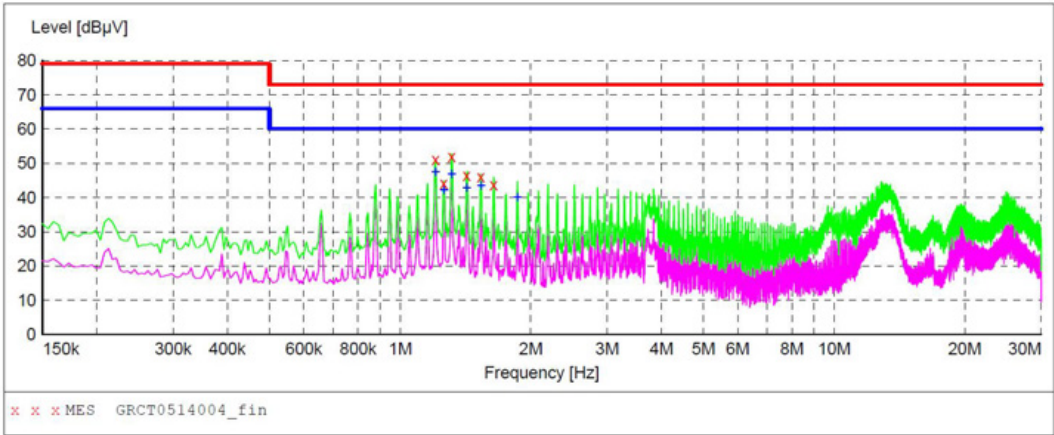
| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 1.207500         | 47.30         | 9.9          | 60            | 12.7         | AV       | L1   | GND |
| 1.261500         | 42.00         | 9.9          | 60            | 18.0         | AV       | L1   | GND |
| 1.315500         | 46.80         | 9.9          | 60            | 13.2         | AV       | L1   | GND |
| 1.423500         | 42.70         | 9.9          | 60            | 17.3         | AV       | L1   | GND |
| 1.536000         | 43.30         | 9.9          | 60            | 16.7         | AV       | L1   | GND |
| 1.864500         | 40.10         | 9.9          | 60            | 19.9         | AV       | L1   | GND |

Line:

N

Test mode:

Mode 1



MEASUREMENT RESULT: "GRCT0514004\_fin"

5/14/2022 9:55AM

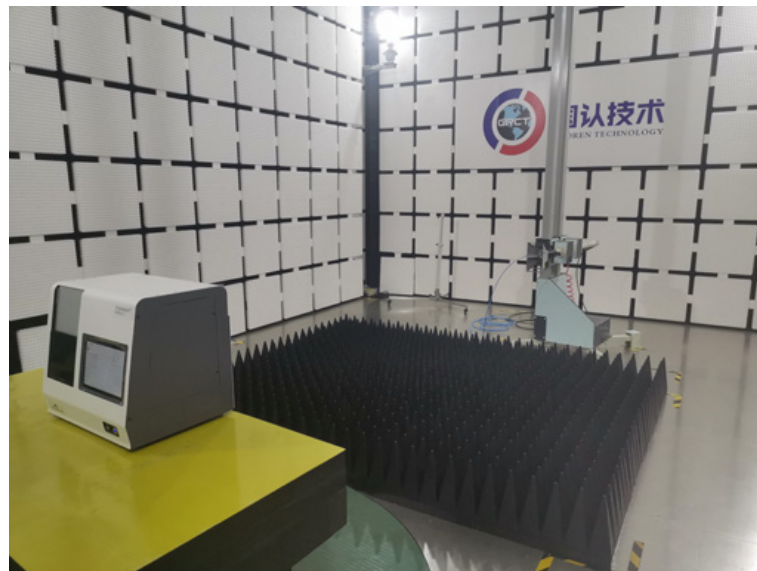
| Frequency<br>MHz | Level<br>dBµV | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 1.207500         | 51.00         | 9.9          | 73            | 22.0         | QP       | N    | GND |
| 1.261500         | 44.10         | 9.9          | 73            | 28.9         | QP       | N    | GND |
| 1.315500         | 52.00         | 9.9          | 73            | 21.0         | QP       | N    | GND |
| 1.423500         | 46.40         | 9.9          | 73            | 26.6         | QP       | N    | GND |
| 1.536000         | 46.00         | 9.9          | 73            | 27.0         | QP       | N    | GND |
| 1.644000         | 43.80         | 9.9          | 73            | 29.2         | QP       | N    | GND |

MEASUREMENT RESULT: "GRCT0514004\_fin2"

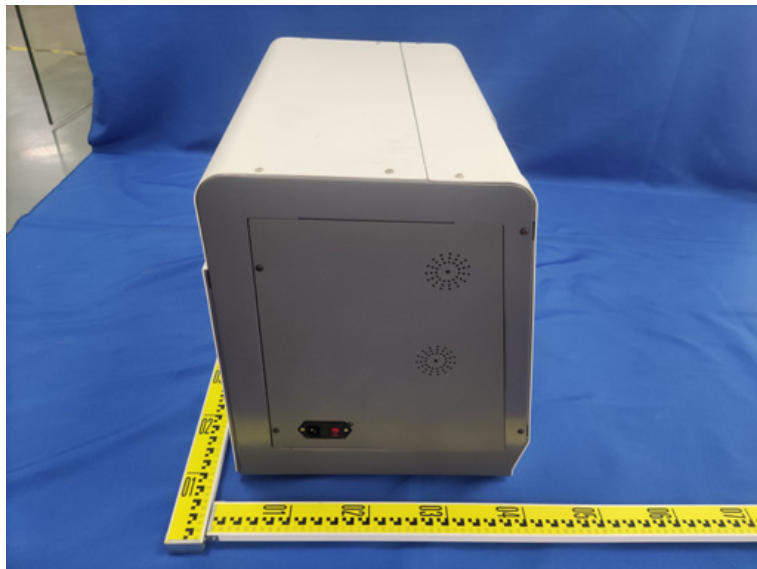
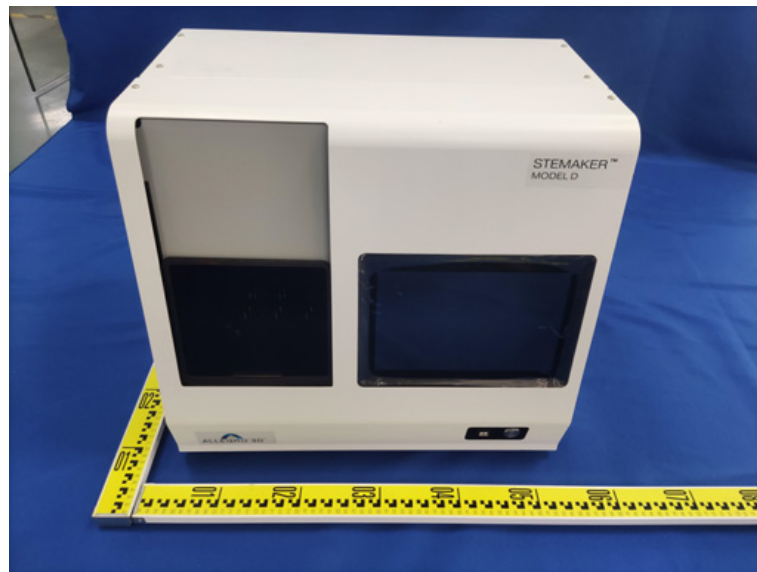
5/14/2022 9:55AM

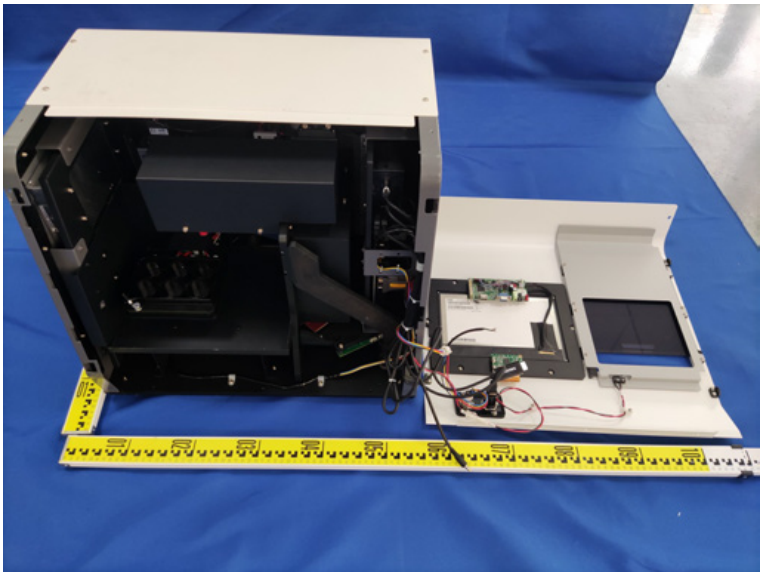
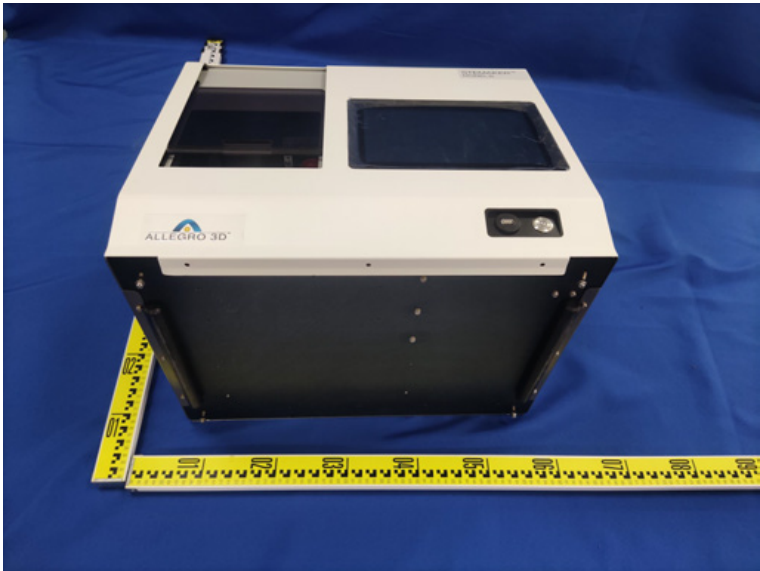
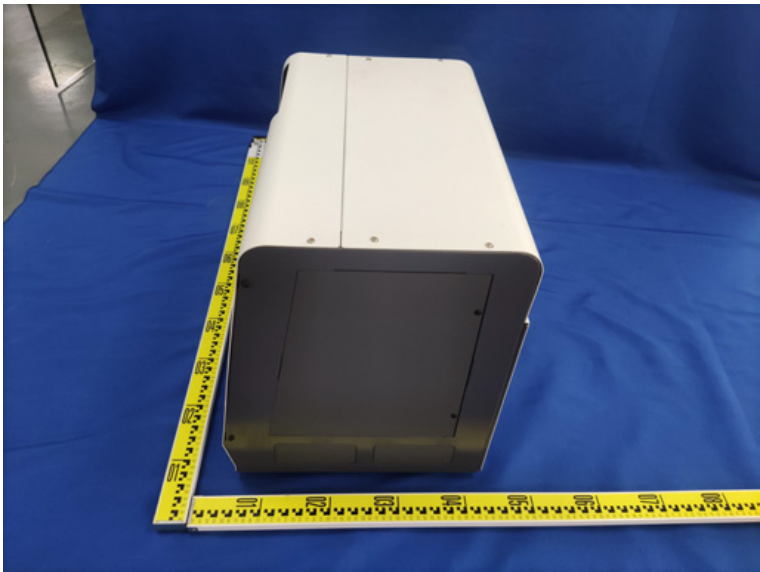
| Frequency<br>MHz | Level<br>dBµV | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 1.207500         | 47.50         | 9.9          | 60            | 12.5         | AV       | N    | GND |
| 1.261500         | 42.20         | 9.9          | 60            | 17.8         | AV       | N    | GND |
| 1.315500         | 46.80         | 9.9          | 60            | 13.2         | AV       | N    | GND |
| 1.423500         | 42.90         | 9.9          | 60            | 17.1         | AV       | N    | GND |
| 1.536000         | 43.50         | 9.9          | 60            | 16.5         | AV       | N    | GND |
| 1.864500         | 40.10         | 9.9          | 60            | 19.9         | AV       | N    | GND |

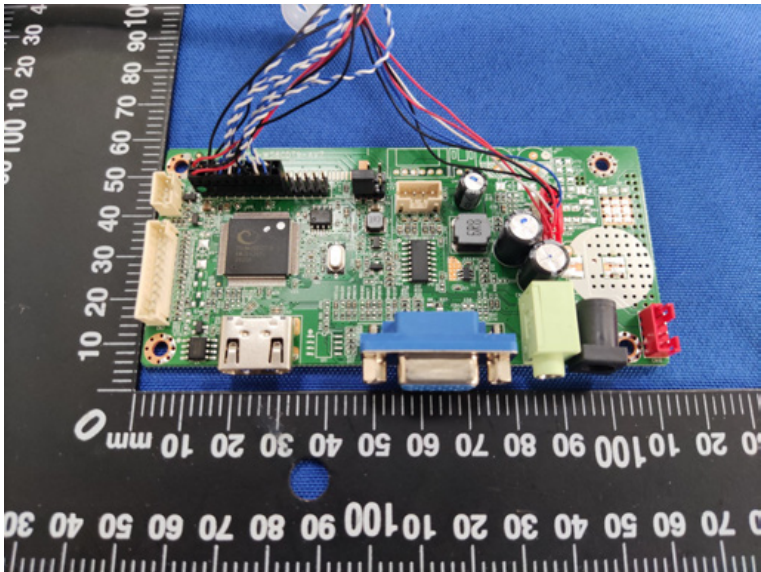
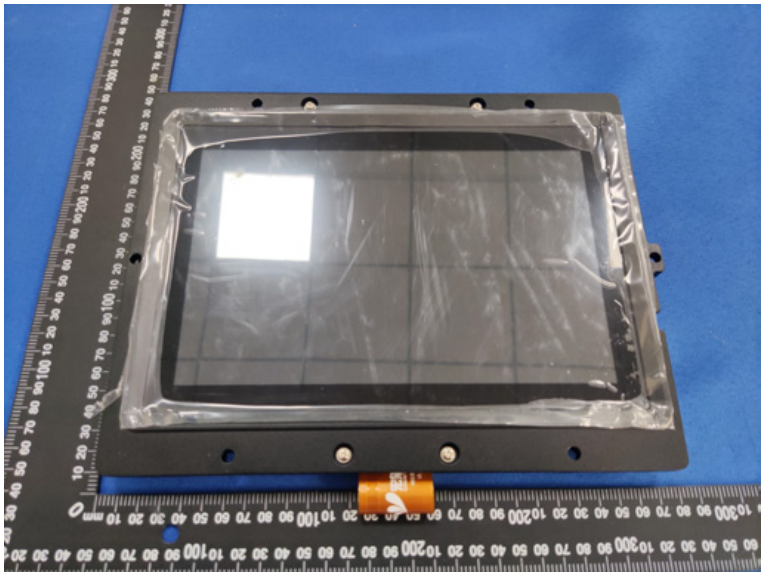
## 5. Test Set-up Photos of the EUT

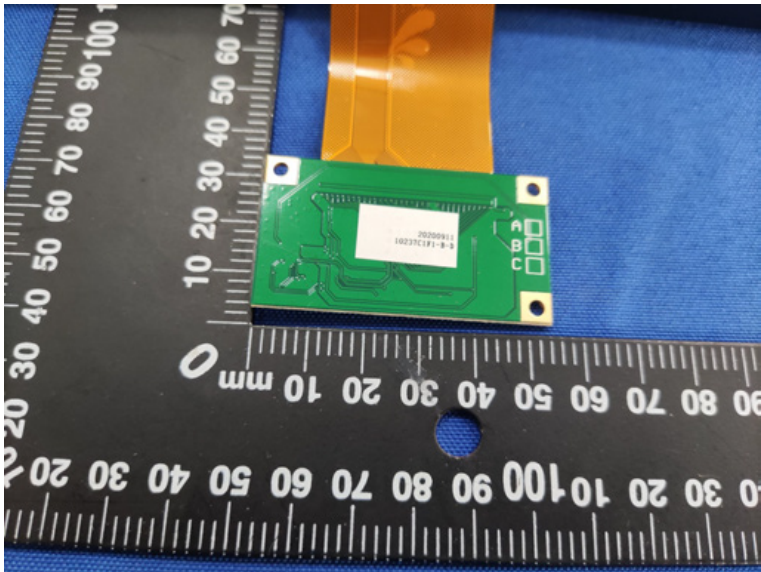
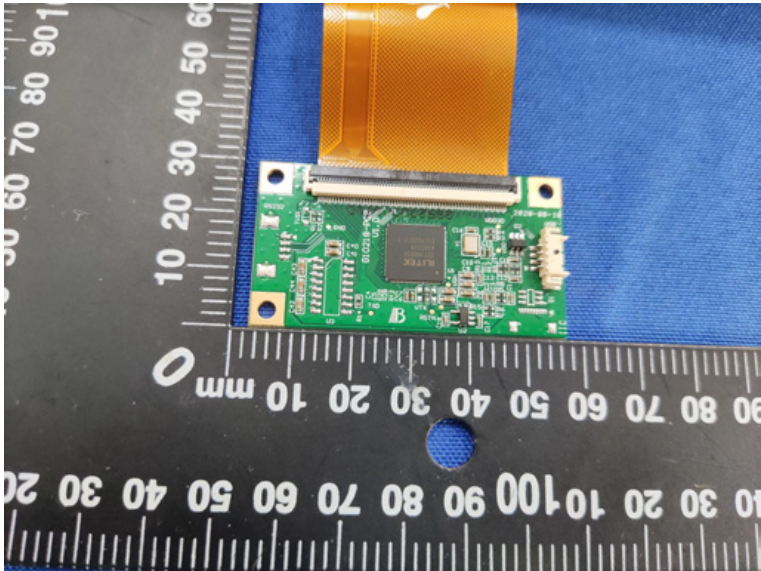


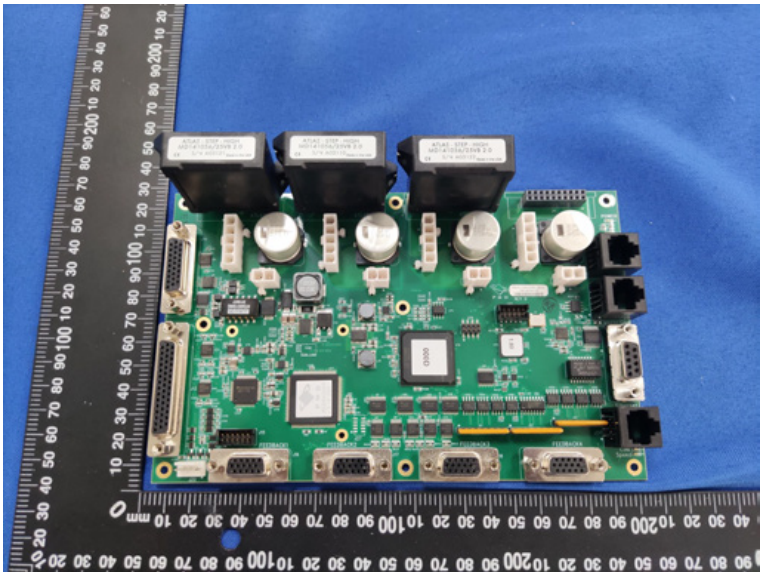
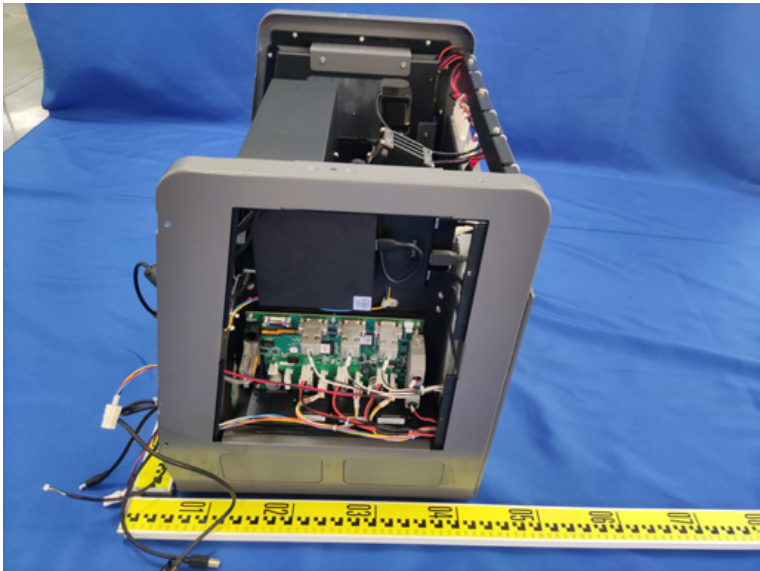
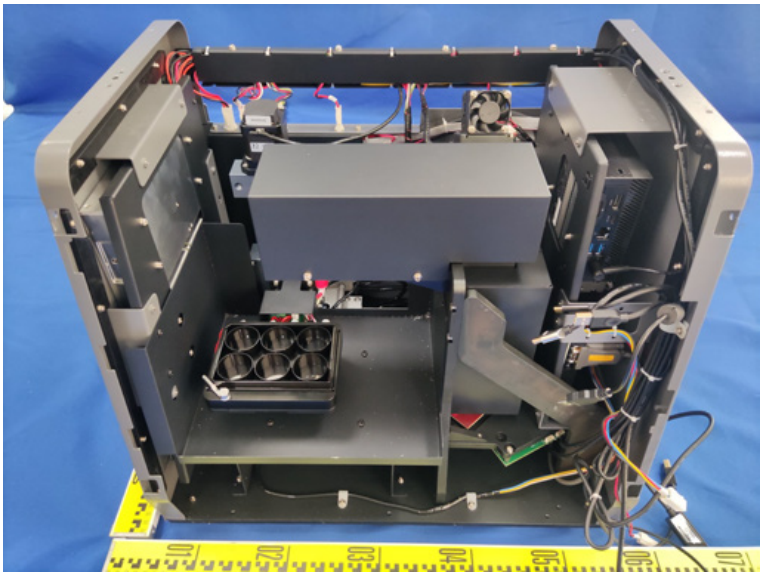
## 6. External and Internal Photos of the EUT

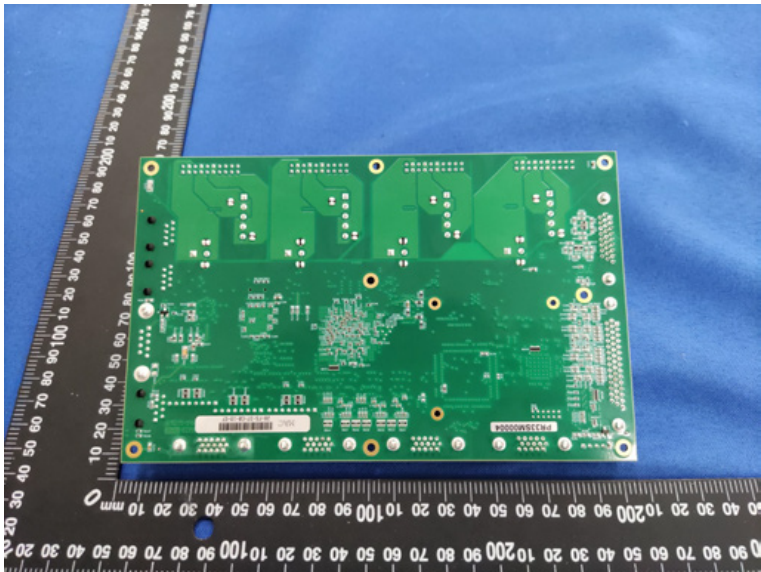


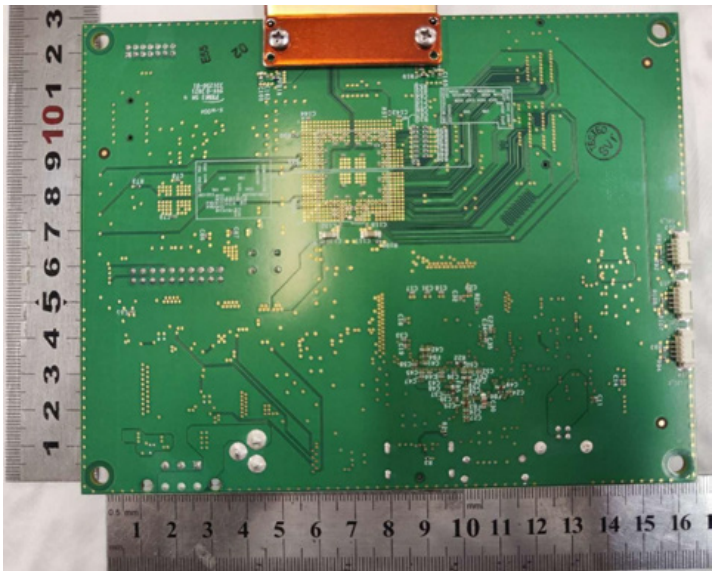
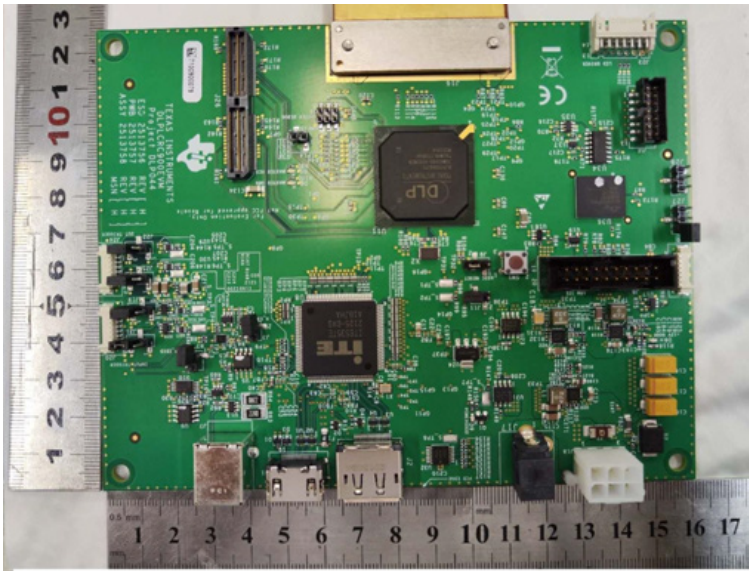
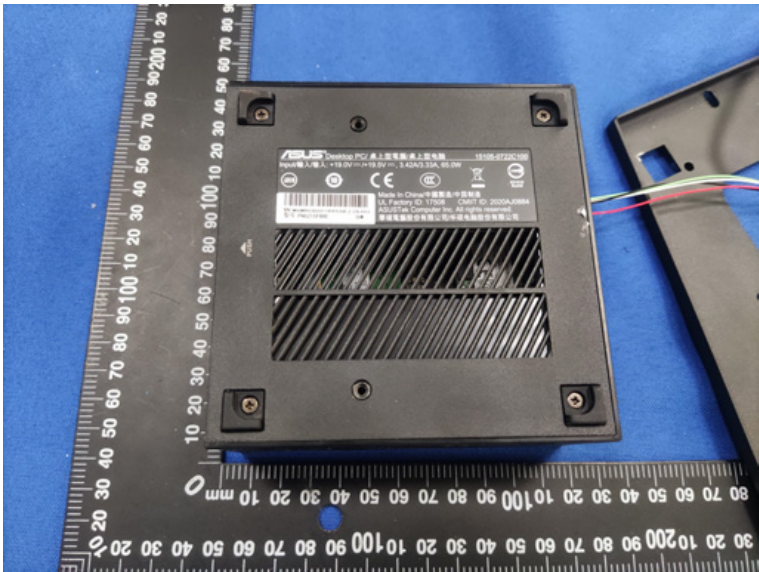


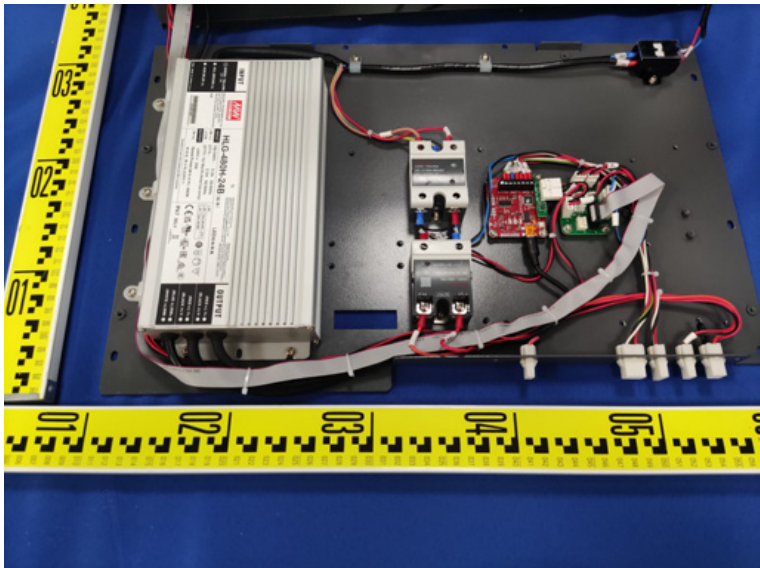
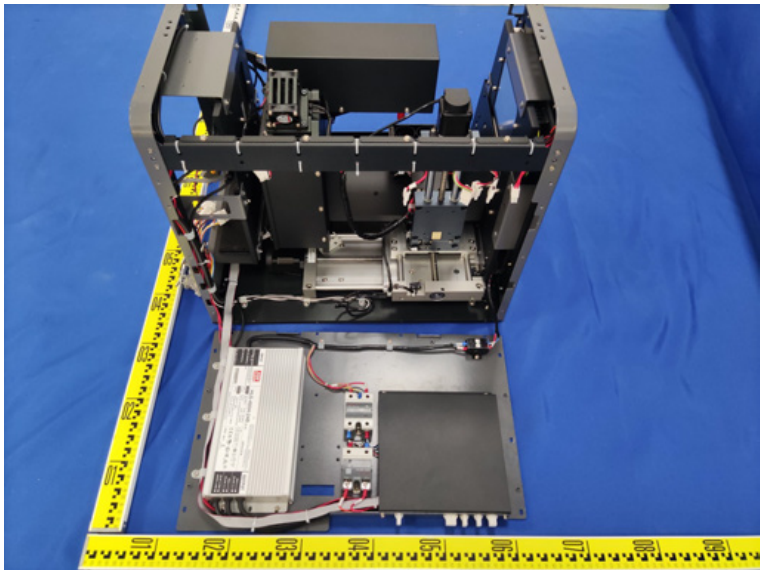


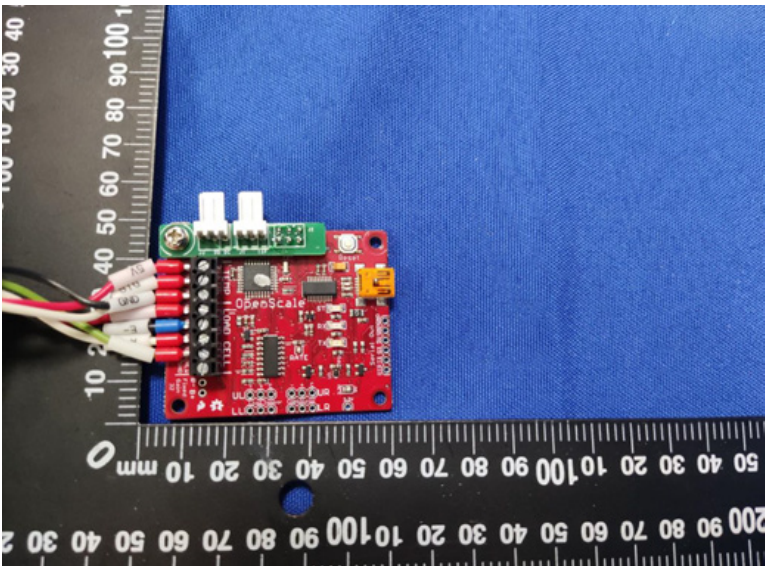
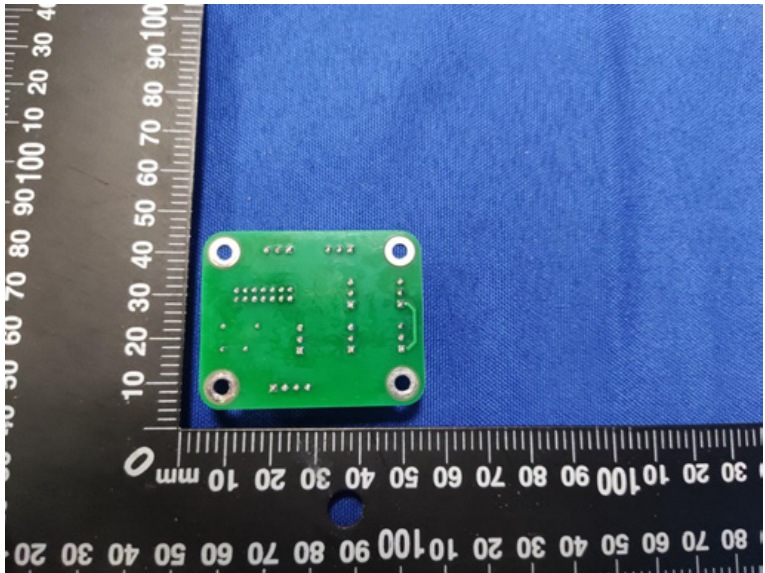
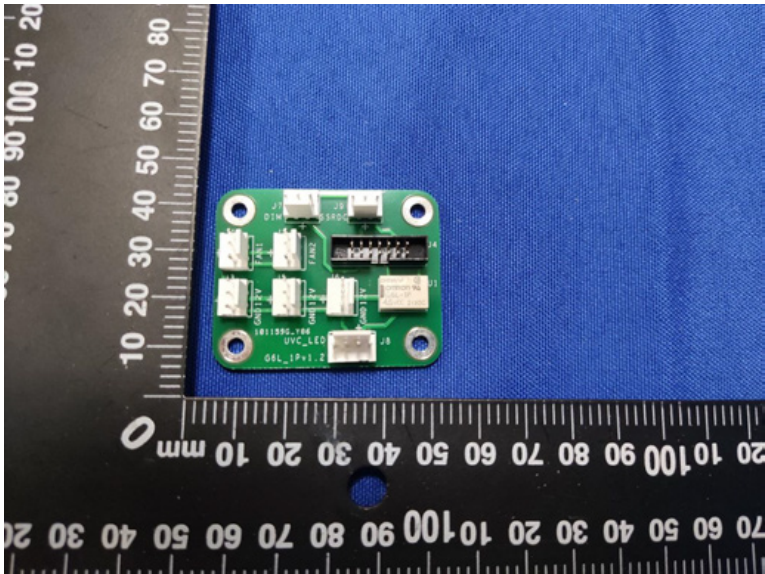


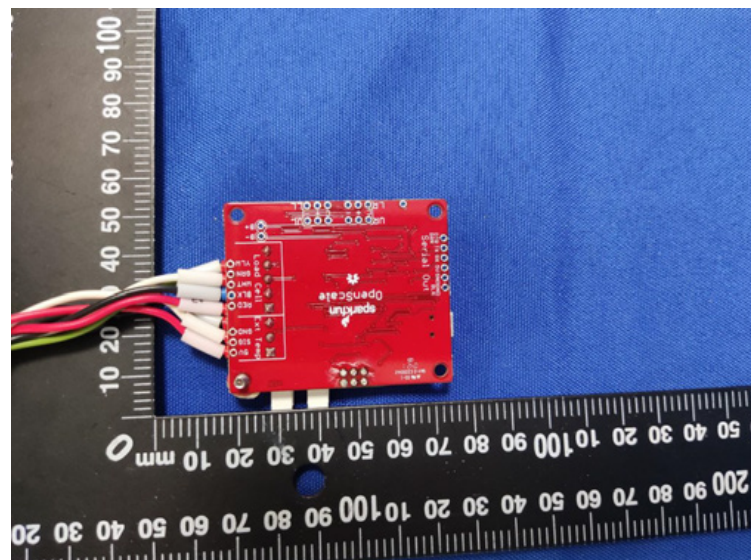












\*\*\*\*\* End of Report \*\*\*\*\*