Ultimems, Inc.

# TEST REPORT

**REPORT NUMBER**
180300419TWN-001

**ISSUE DATE**

May 25, 2018

**PAGES**
30

**DOCUMENT CONTROL NUMBER**

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# EMC
# TEST REPORT

| | |
|---|---|
| **Applicant:** | **Ultimems, Inc.**<br>**11F., No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan.** |
| **Product:** | **Anybeam Laser Scanning Pico Projector** |
| **Model No.:** | **HD301M1-H2, HD301M1-H2-BLA, HD301M1-H2-DBR, HD301M1-H2-LBR, HD301M1-H2-GRA, HD301M1-H2-W, HD301M1-H2-R, HD301M1-H2-Y, HD301M1-H2-GRE, HD301M1-H2-BL** |
| **Brand Name:** | **Anybeam** |
| **Test Method/ Standard:** | **47 CFR FCC Part 15 Subpart B (2016)**<br>**FCC Procedure ANSI C63.4 (2014)** |
| **Test By:** | **Intertek Testing Services Taiwan Ltd.,**<br>**Hsinchu Laboratory**<br>**No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li,**<br>**Shiang-Shan District, Hsinchu City, Taiwan** |

Testing Laboratory
0597

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# Revision History

| Report No. | Issue Date | Revision Summary |
|---|---|---|
| 180300419TWN-001 | May 25, 2018 | Original report |

# Table of Contents

## 1. General Information

### 1.1 Identification of the EUT

| | |
|---|---|
| **Product:** | Anybeam Laser Scanning Pico Projector |
| **Model No.:** | HD301M1-H2 |
| **Brand Name:** | Anybeam |
| **Rated Power:** | DC 5 V |
| **Power Cord:** | N/A |
| **Sample receiving date:** | May 11, 2018 |
| **Sample condition:** | Workable |
| **Testing date:** | May 23, 2018 |

### 1.2 Additional information about the EUT

The customer confirmed the models listed as below were series model to model HD301M1-H2 (EUT), the difference between main model and series model are listed as below.

| Trade Name | Model Number | Different |
|---|---|---|
| Anybeam | HD301M1-H2-BLA | Changes in appearance color and printing |
| | HD301M1-H2-DBR | |
| | HD301M1-H2-LBR | |
| | HD301M1-H2-GRA | |
| | HD301M1-H2-W | |
| | HD301M1-H2-R | |
| | HD301M1-H2-Y | |
| | HD301M1-H2-GRE | |
| | HD301M1-H2-BL | |

For more detail features, please refer to user's Manual.

## 2. Test Summary

| Emission | | | |
|---|---|---|---|
| **Standard** | **Test Type** | **Result** | **Remarks** |
| **FCC Subpart B Section 15.107** | Conducted Emission Test | PASS | Meet Class B Limit |
| **FCC Subpart B Section 15.109** | Radiated Emission Test | PASS | Meet Class B Limit |

## 3. Test Specifications

### 3.1 Standards

The following standards were applied for testing:
FCC standard: 47 CFR Part 15, Subpart B. Clause 15.107 and 15.109.

**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

### 3.2 Test Facility accreditation

Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory is accredited in respect of laboratory and the accreditation criterion is ISO/IEC 17025: 2005.

| Certification | Bureau | Code | Accreditation Criteria |
|---|---|---|---|
| Accreditation Certificate | TAF | 0597 | ISO/IEC 17025 |
| | BSMI | SL2-IS-E-0024<br>SL2-IN-E-0024<br>SL2-A1-E-0024<br>SL2-R2-E-0024<br>SL2-R1-E-0024<br>SL2-L1-E-0024 | ISO/IEC 17025 |
| Site Filling Code : | FCC | 93910 | Test facility list & NSA Data |
| | IC | 2042D-1, 2042D-2 | Test facility list & NSA Data |
| | VCCI | R-1534<br>C-1618<br>T-1586<br>G-49 | Test facility list & NSA Data |

Note: Each certificate is within the valid calibration period.

### 3.3 Classification of ITE

Class A digital device. A digital device that is marketed for use in a commercial, industrial or business environment, exclusive of a device which is marketed for use by the general public or is intended to be used in the home.

Class B digital device. A digital device that is marketed for use in a residential environment notwithstanding use in commercial, business and industrial environments. Examples of such devices include, but are not limited to, personal computers, calculators, and similar electronic devices that are marketed for use by the general public.

### 3.4 Mode of operation during the test

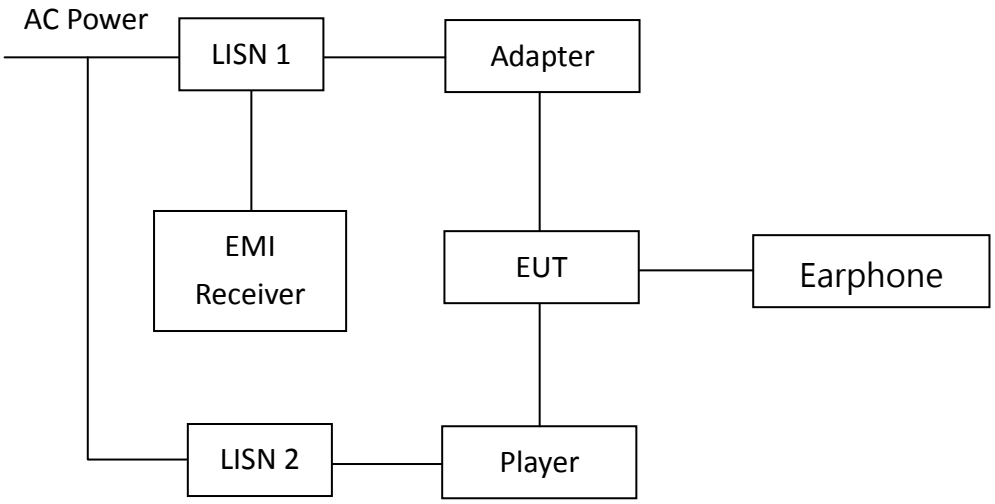
The EUT was powered from USB adaptor, and continue display test signal from DVD player.

### 3.5 Peripherals equipment

| Peripherals | Brand | Model No. | Serial No. | Description of Data Cable |
|---|---|---|---|---|
| Earphone | HTC | INNOVATION | N/A | N/A |
| USB power adaptor | apple | A1357 | N/A | USB to micro USB shielded cable 1 meter |
| BD player | Sony | BDP-S380 | N/A | HDMI shielded cable 1.5 meter |

## 4. Conducted Emission Test

### 4.1 Test Procedure




The EUT along with its peripherals were placed on a 1.0 meter(W)×1.5meter(L) and 0.8 meter in height wooden table and the EUT was adjusted to maintain a 0.4meter space from a vertical reference plane. The EUT was connected to power mains through a Artificial Mains Network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
The excess power cable between the EUT and the AMN was bundled. All connecting cables of EUT and peripherals were moved to find the maximum emission

## 4.2 Test Equipment

| Test Equipment/ Test site | Brand | Model No. | Serial No. | Calibration Date | Next Calibration Date |
|---|---|---|---|---|---|
| EMI Receiver | R&S | ESCI | 100059 | 2017/11/13 | 2018/11/12 |
| Two-Line V-Network | R&S | ENV216 | 101159 | 2017/06/03 | 2018/06/02 |
| Artificial Mains Network (LISN) | SCHAFFNER | MN2050D | 1586 | 2017/05/31 | 2018/05/30 |
| CON-1 Shielded Room | N/A | N/A | N/A | NCR | NCR |
| CON-1 Cable | SUHNER | SUCOFLEX-104 | 26438414 | 2018/05/03 | 2019/05/02 |
| Test software | Audix | e3 | 4.20040112L | NCR | NCR |

Note: No Calibration Required (NCR).

## 4.3 Conducted Emission Limit

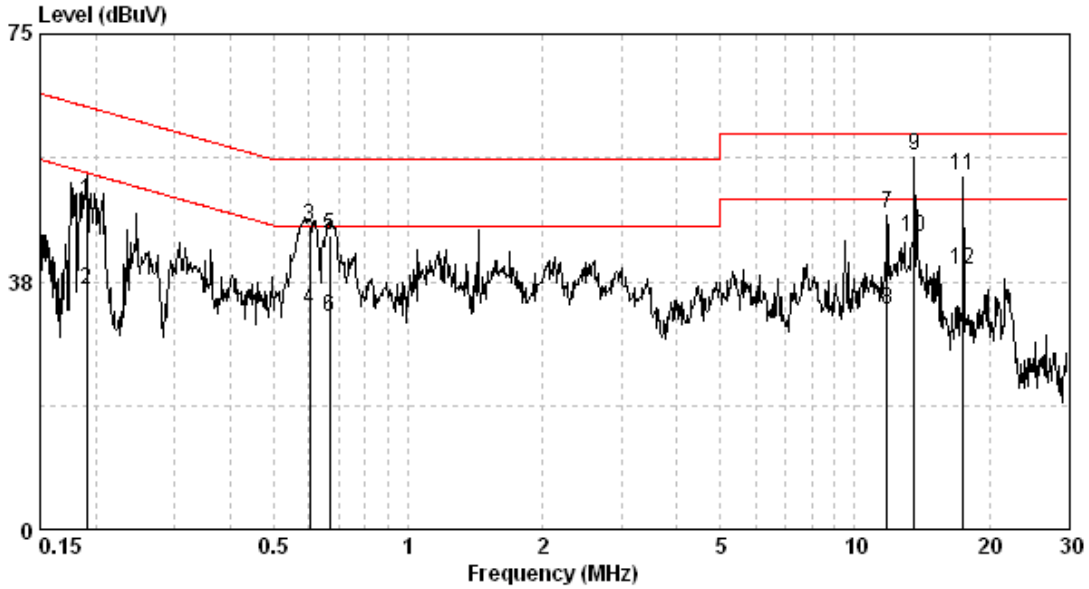
| Frequency (MHz) | Maximum RF Line Voltage | |
|---|---|---|
| | Class B Equipment (dBµV) | |
| | Q.P. | Avg. |
| 0.15~0.50 | 66~56 | 56~46 |
| 0.50~5.00 | 56 | 46 |
| 5.00~30.0 | 60 | 50 |

## 4.4 Conducted Emission Data

| | | | | |
|---|---|---|---|---|
| Phase: | Live Line | | | |
| Temperature: | 26 | ℃ | Model No.: | HD301M1-H2 |
| Relative Humidity: | 65 | % | Test Date: | May 23, 2018 |
| Atmospheric Pressure: | 1003 | hPa | Remark: | N/A |

| Frequency (MHz) | Corr. Factor (dB) | Reading QP (dBuV) | Level QP (dBuV) | Limit QP (dBuV) | Reading AV (dBuV) | Level AV (dBuV) | Limit AV (dBuV) | Margin (dB) QP | Margin (dB) AV |
|---|---|---|---|---|---|---|---|---|---|
| 0.190 | 9.34 | 40.35 | 49.69 | 64.02 | 27.03 | 36.37 | 54.02 | -14.33 | -17.65 |
| 0.601 | 9.38 | 36.46 | 45.84 | 56.00 | 23.99 | 33.38 | 46.00 | -10.16 | -12.62 |
| 0.668 | 9.39 | 35.21 | 44.60 | 56.00 | 22.69 | 32.08 | 46.00 | -11.40 | -13.92 |
| 11.786 | 9.55 | 38.29 | 47.83 | 60.00 | 23.65 | 33.19 | 50.00 | -12.17 | -16.81 |
| 13.563 | 9.54 | 47.08 | 56.62 | 60.00 | 34.64 | 44.18 | 50.00 | -3.38 | -5.82 |
| 17.485 | 9.53 | 43.93 | 53.46 | 60.00 | 29.83 | 39.36 | 50.00 | -6.54 | -10.64 |

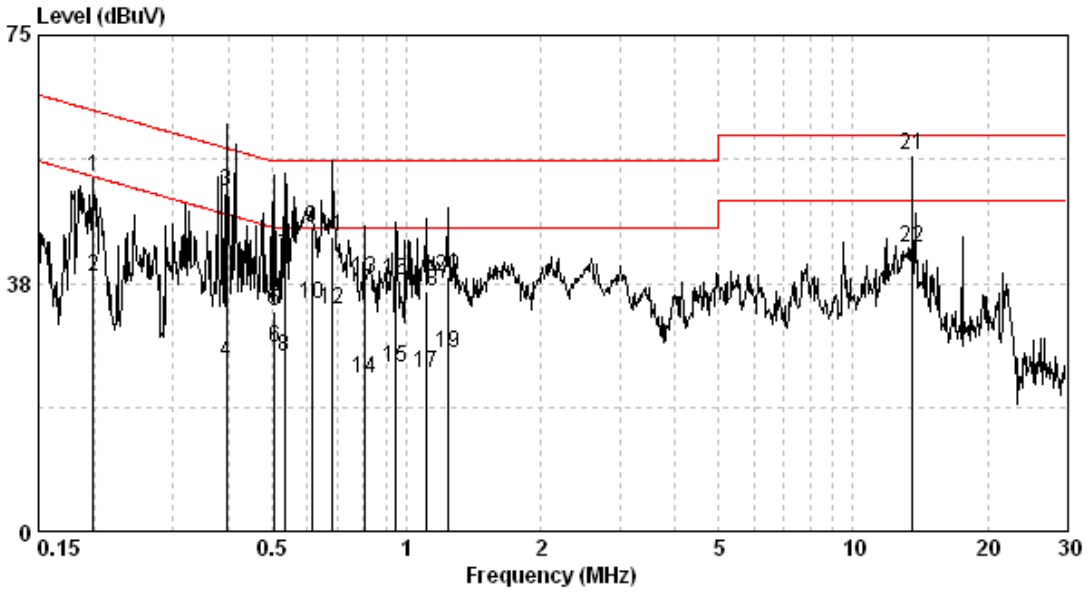
Remark:
1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. Factor (dB) + Reading (dBuV)
3. Margin (dB) = Level (dBuV) – Limit (dBuV)



| | | | | |
|---|---|---|---|---|
| Phase: | Neutral Line | | | |
| Temperature: | 26 | ℃ | Model No.: | HD301M1-H2 |
| Relative Humidity: | 65 | % | Test Date: | May 23, 2018 |
| Atmospheric Pressure: | 1003 | hPa | Remark: | N/A |

| Frequency (MHz) | Corr. Factor (dB) | Reading QP (dBuV) | Level QP (dBuV) | Limit QP (dBuV) | Reading AV (dBuV) | Level AV (dBuV) | Limit AV (dBuV) | Margin (dB) QP | Margin (dB) AV |
|---|---|---|---|---|---|---|---|---|---|
| 0.199 | 9.60 | 44.02 | 53.62 | 63.67 | 28.91 | 38.51 | 53.67 | -10.05 | -15.16 |
| 0.396 | 9.61 | 41.73 | 51.35 | 57.95 | 15.92 | 25.54 | 47.95 | -6.60 | -22.41 |
| 0.507 | 9.62 | 23.73 | 33.35 | 56.00 | 18.07 | 27.69 | 46.00 | -22.65 | -18.31 |
| 0.532 | 9.62 | 31.73 | 41.35 | 56.00 | 16.83 | 26.46 | 46.00 | -14.65 | -19.54 |
| 0.614 | 9.63 | 36.19 | 45.82 | 56.00 | 24.60 | 34.24 | 46.00 | -10.18 | -11.76 |
| 0.683 | 9.63 | 34.94 | 44.57 | 56.00 | 23.76 | 33.39 | 46.00 | -11.43 | -12.61 |
| 0.804 | 9.64 | 28.44 | 38.09 | 56.00 | 13.35 | 22.99 | 46.00 | -17.91 | -23.01 |
| 0.948 | 9.65 | 28.37 | 38.01 | 56.00 | 15.01 | 24.66 | 46.00 | -17.99 | -21.34 |
| 1.106 | 9.66 | 26.68 | 36.34 | 56.00 | 14.28 | 23.94 | 46.00 | -19.66 | -22.06 |
| 1.236 | 9.67 | 28.75 | 38.42 | 56.00 | 17.20 | 26.87 | 46.00 | -17.58 | -19.13 |
| 13.560 | 9.84 | 46.99 | 56.83 | 60.00 | 33.05 | 42.89 | 50.00 | -3.17 | -7.11 |

Remark:
1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. Factor (dB) + Reading (dBuV)
3. Margin (dB) = Level (dBuV) – Limit (dBuV)

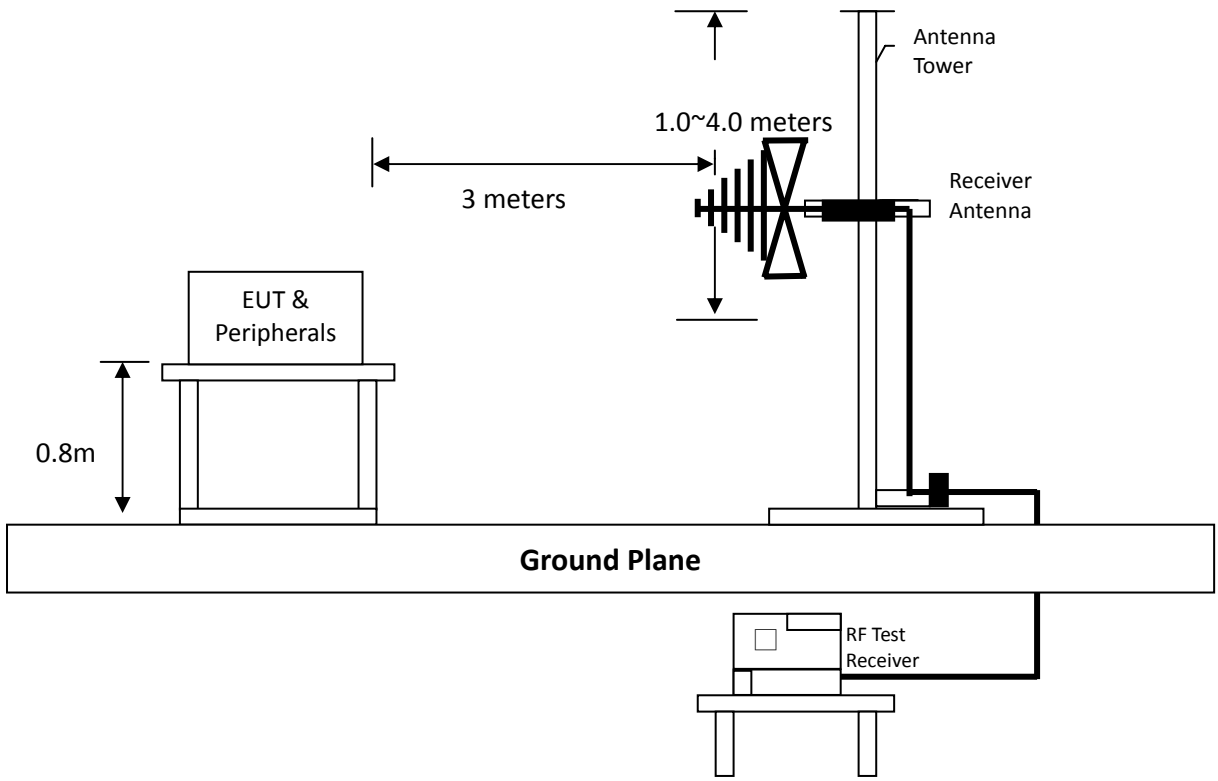


## 5. Radiated Emission Test

### 5.1.1 Test Procedure from 30 MHz to 1000 MHz

The figure below shows the test setup, which is utilized to make these measurements.

Side View




Radiated testing was performed at a 3 meters semi-anechoic chamber. The equipment under test were placed on a turntable top 0.8 meter above ground. The table was 360 degrees to determine the position of the highest radiation. EUT is set 3 meters from the EMI receiving antenna, which is mounted on a variable height mast. The antenna height is varied between one meter and four meters above ground to find the maximum value of the field strength. Both horizontal polarization and vertical polarization of the antenna was set to conduct the measurement.

The bandwidth was set on the EMI meter 120 kHz.

The levels are quasi peak value readings. The frequency spectrum from 30 MHz to 1000 MHz was investigated.

### 5.1.2 Test Equipment

| Test Equipment/ Test site | Brand | Model No. | Serial No. | Calibration Date | Next Calibration Date |
|---|---|---|---|---|---|
| EMI Receiver | R&S | ESU40 | 100381 | 2017/05/31 | 2018/05/30 |
| Bi-log Hybrid Antenna | ETC | MCTD2786 | BL13S03017 | 2018/05/09 | 2019/05/08 |
| 966-1(A) Cable | SUHNER | SMA / SUCOFLEX 104 | 29510614 | 2018/04/17 | 2019/04/16 |
| 966-1(B) Cable | JUNFLON | SMA / J12J100880-00 | AUG-26-08-001 | 2018/04/17 | 2019/04/16 |
| 966-1_3m Semi-Anechoic Chamber | 966_1 | CEM-966_1 | N/A | 2018/03/05 | 2019/03/04 |
| Test software | Audix | e3 | 4.20040112L | NCR | NCR |

Note: No Calibration Required (NCR).

### 5.1.3 Radiated Emission Limit

According to FCC 15.109, except for Class A digital device, the field strength of radiated emission from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Class B Radiated Emission Limits:

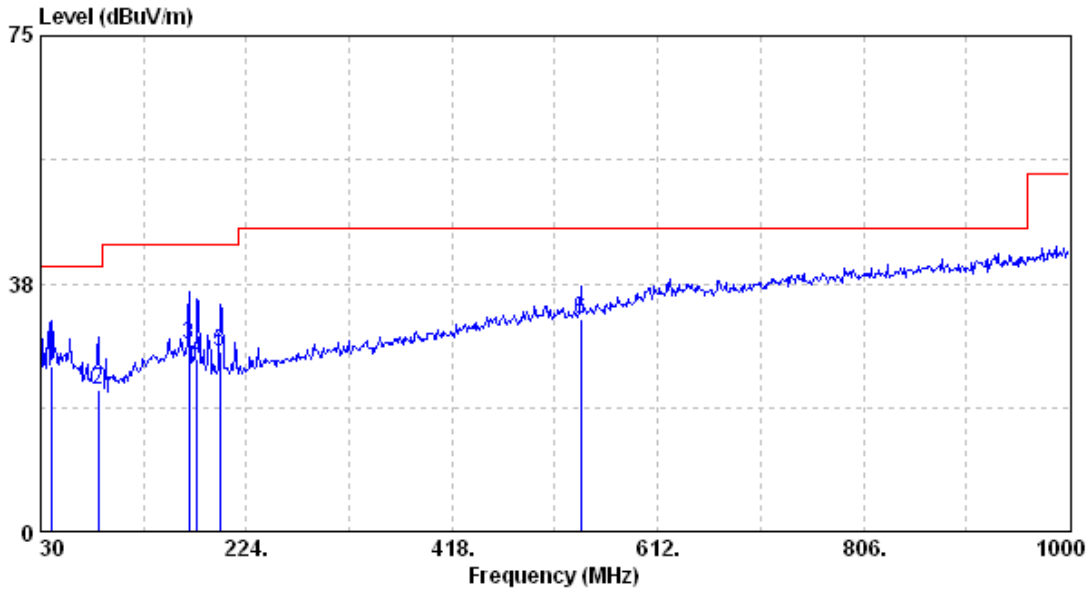
| Frequency MHz | Field Strength dBµV/m |
|---|---|
| 30-88 | 40.0 |
| 88-216 | 43.5 |
| 216-960 | 46.0 |
| Above 960 | 54.0 |

### 5.1.4 Radiated Emission Test Data from 30 MHz to 1000 MHz

| Polarity: | Vertical | | | |
|---|---|---|---|---|
| Temperature: | 26 | ℃ | Model No.: | HD301M1-H2 |
| Relative Humidity: | 65 | % | Test Date: | May 23, 2018 |
| Atmospheric Pressure: | 1003 | hPa | Remark: | N/A |

| Freq | Pol/Phase | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| MHz | | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 40.670 | VERTICAL | 13.77 | 11.14 | 24.91 | 40.00 | -15.09 | QP |
| 84.320 | VERTICAL | 9.58 | 11.80 | 21.38 | 40.00 | -18.62 | QP |
| 169.680 | VERTICAL | 14.53 | 13.76 | 28.29 | 43.50 | -15.21 | QP |
| 177.440 | VERTICAL | 13.62 | 12.50 | 26.12 | 43.50 | -17.38 | QP |
| 198.780 | VERTICAL | 11.94 | 15.28 | 27.22 | 43.50 | -16.28 | QP |
| 539.250 | VERTICAL | 21.10 | 10.93 | 32.03 | 46.00 | -13.97 | QP |

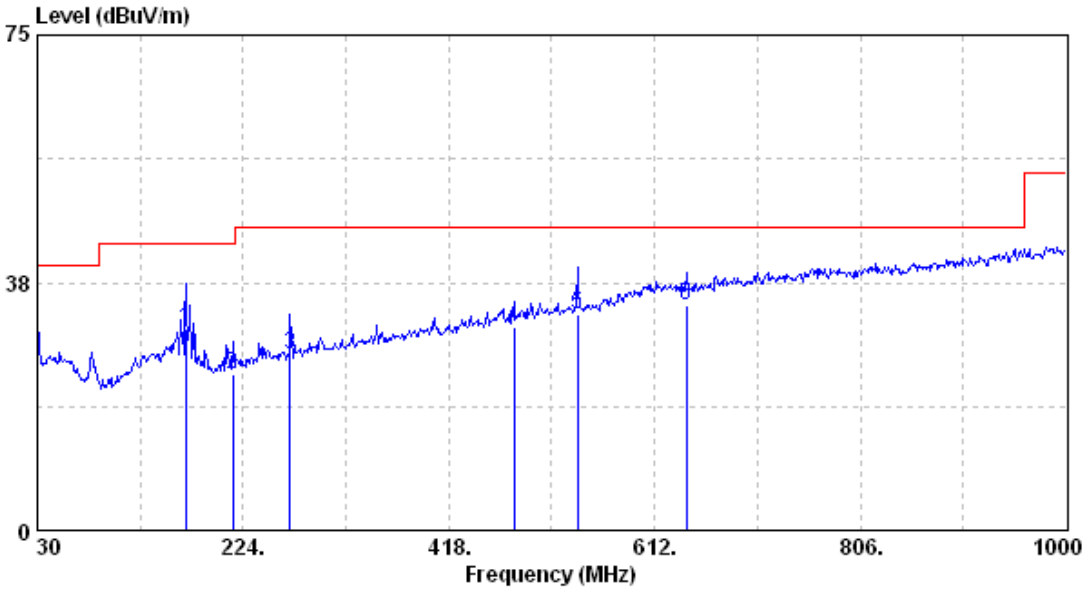
Remark:
1. Factor = Antenna Factor (dB/m) + Cable Loss (dB)
2. Level (dBµV/m) = Factor (dB) + Read Level (dBµV)
3. Over Limit (dB) = Level (dBµV/m) – Limit Line (dBµV/m)



| | | | | |
|---|---|---|---|---|
| Polarity: | Horizontal | | | |
| Temperature: | 26 | ℃ | Model No.: | HD301M1-H2 |
| Relative Humidity: | 65 | % | Test Date: | May 23, 2018 |
| Atmospheric Pressure: | 1003 | hPa | Remark: | N/A |

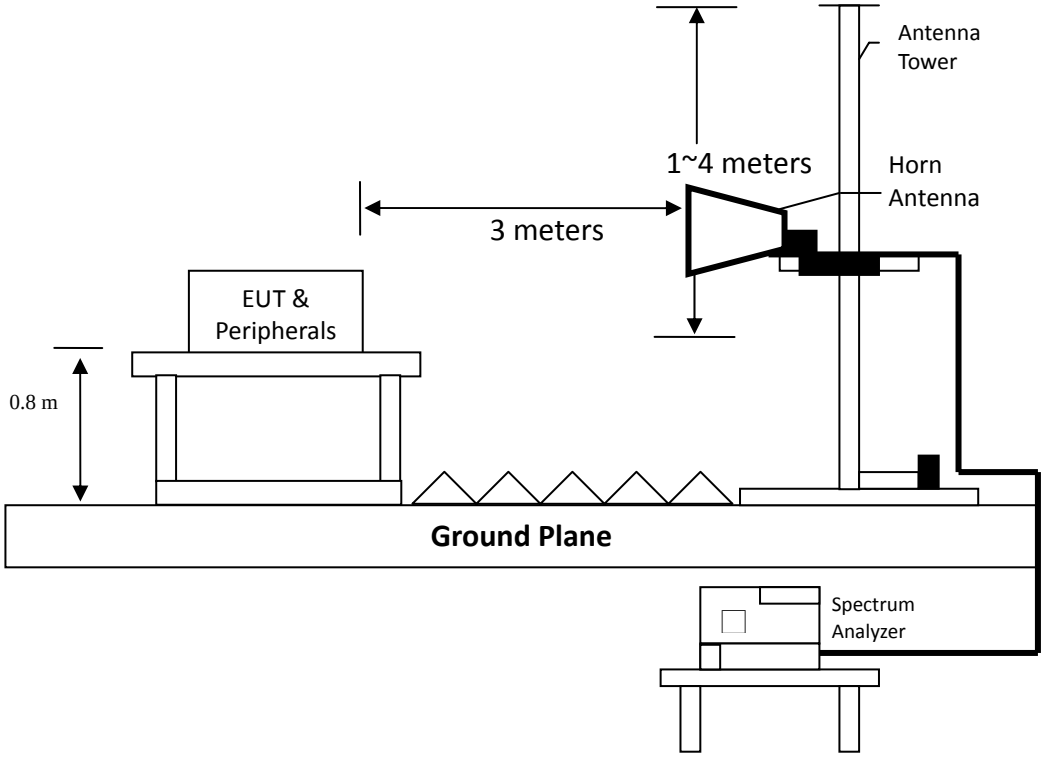
| Freq | Pol/Phase | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| MHz | | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 169.680 | HORIZONTAL | 14.53 | 15.84 | 30.37 | 43.50 | -13.13 | QP |
| 214.300 | HORIZONTAL | 12.83 | 10.75 | 23.58 | 43.50 | -19.92 | QP |
| 268.620 | HORIZONTAL | 14.57 | 12.06 | 26.63 | 46.00 | -19.37 | QP |
| 479.110 | HORIZONTAL | 19.99 | 10.73 | 30.72 | 46.00 | -15.28 | QP |
| 539.250 | HORIZONTAL | 21.10 | 11.64 | 32.74 | 46.00 | -13.26 | QP |
| 642.070 | HORIZONTAL | 23.10 | 10.86 | 33.96 | 46.00 | -12.04 | QP |

Remark:
1. Factor = Antenna Factor (dB/m) + Cable Loss (dB)
2. Level (dBµV/m) = Factor (dB) + Read Level (dBµV)
3. Over Limit (dB) = Level (dBµV/m) – Limit Line (dBµV/m)



### 5.2.1 Test Procedure above 1 GHz

The figure below shows the test setup, which is utilized to make these measurements.




Radiated testing was performed at a 3 meters semi-anechoic chamber. The equipment under test were placed on a turntable top 0.8 meter above ground. The table was 360 degrees to determine the position of the highest radiation. EUT is set 3 meters from the EMI receiving antenna, which is mounted on a variable height mast. The antenna height is varied between one meter and four meters above ground to find the maximum value of the field strength. Both horizontal polarization and vertical polarization of the antenna was set to conduct the measurement.
The bandwidth was set on the EMI meter 1 MHz.
The levels are peak and average value readings. The frequency spectrum above 1 GHz was investigated.

### 5.2.2 Test Equipment

| Test Equipment/ Test site | Brand | Model No. | Serial No. | Calibration Date | Next Calibration Date |
|---|---|---|---|---|---|
| EMI Receiver | R&S | ESU40 | 100381 | 2017/05/31 | 2018/05/30 |
| Horn Antenna | EMCO | 3115 | 9906-5822 | 2018/05/03 | 2019/05/02 |
| Pre-Amplifier | AML | AML0120L3401 | 0419-114 | 2018/05/18 | 2019/05/17 |
| 966-1(A) Cable | SUHNER | SMA / SUCOFLEX 104 | 29510614 | 2018/04/17 | 2019/04/16 |
| 966-1(B) Cable | JUNFLON | SMA / J12J100880-00 | AUG-26-08-001 | 2018/04/17 | 2019/04/16 |
| 966-1_3m Semi-Anechoic Chamber | 966_1 | CEM-966_1 | N/A | 2018/03/05 | 2019/03/04 |
| Test software | Audix | e3 | 4.20040112L | NCR | NCR |

Note: No Calibration Required (NCR).

### 5.2.3 Radiated Emission Limit

According to FCC 15.109, except for Class A digital device, the field strength of radiated emission from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Class B Radiated Emission Limits:

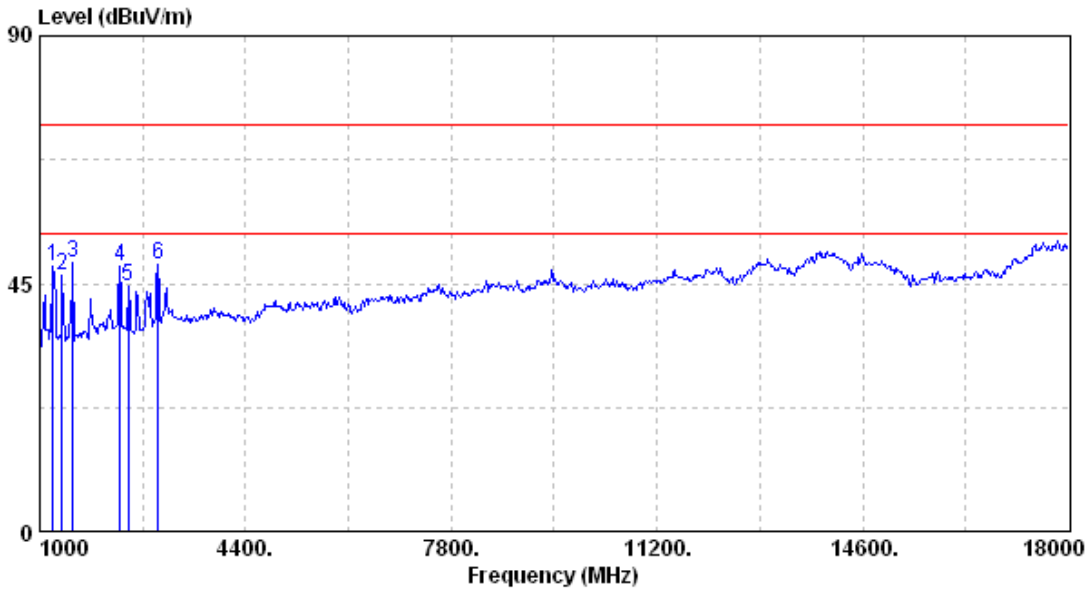
| Frequency MHz | Field Strength dBµV/m (Average) | Field Strength dBµV/m (Peak) |
|---|---|---|
| Above 1000 | 54.0 | 74.0 |

### 5.2.4 Radiated Emission Test Data above 1 GHz

| | | | | |
|---|---|---|---|---|
| Polarity: | Vertical | | | |
| Temperature: | 26 | ℃ | Model No.: | HD301M1-H2 |
| Relative Humidity: | 65 | % | Test Date: | May 23, 2018 |
| Atmospheric Pressure: | 1003 | hPa | Remark: | N/A |

| Freq | Pol/Phase | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| MHz | | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1221.000 | VERTICAL | -10.61 | 58.58 | 47.97 | 74.00 | -26.03 | Peak |
| 1374.000 | VERTICAL | -9.57 | 56.03 | 46.46 | 74.00 | -27.54 | Peak |
| 1544.000 | VERTICAL | -8.45 | 57.15 | 48.70 | 74.00 | -25.30 | Peak |
| 2326.000 | VERTICAL | -5.05 | 53.07 | 48.03 | 74.00 | -25.97 | Peak |
| 2462.000 | VERTICAL | -4.89 | 49.32 | 44.42 | 74.00 | -29.58 | Peak |
| 2955.000 | VERTICAL | -3.47 | 52.05 | 48.57 | 74.00 | -25.43 | Peak |

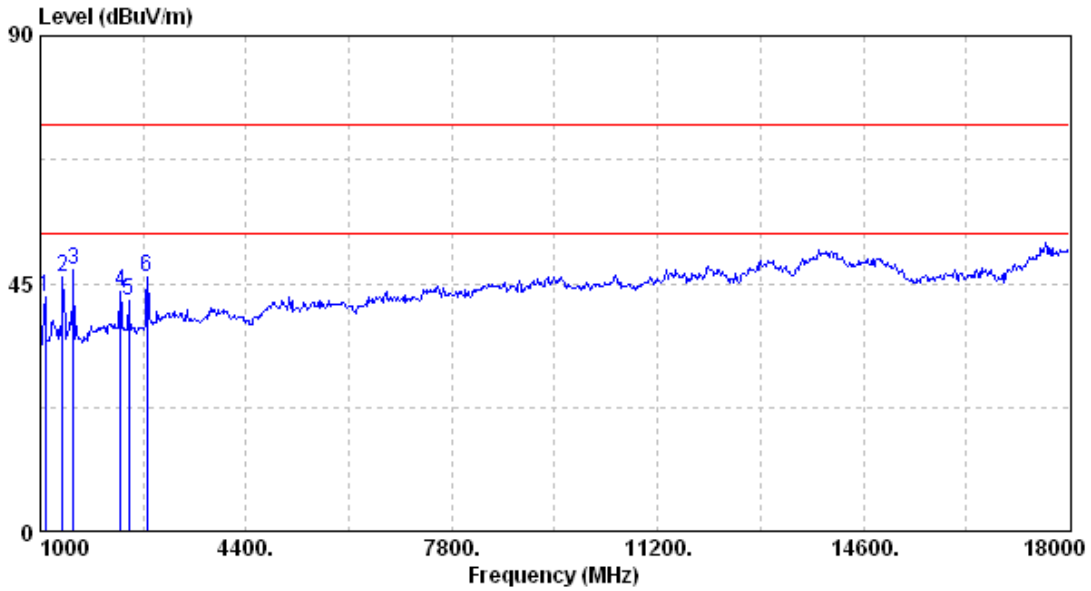
Remark:
1. Level (dBµV/m) = Factor (dB) + Read Level (dBµV)
2. Factor = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier Gain (dB)
(*The Amplifier Gain depended on measure equipment, see test equipment list.)
3. Over Limit (dB) = Level (dBµV/m) – Limit Line (dBµV/m)



| Polarity: | Horizontal | | | |
|---|---|---|---|---|
| Temperature: | 26 | ℃ | Model No.: | HD301M1-H2 |
| Relative Humidity: | 65 | % | Test Date: | May 23, 2018 |
| Atmospheric Pressure: | 1003 | hPa | Remark: | N/A |

| Freq | Pol/Phase | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| MHz | | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1085.000 | HORIZONTAL | -11.58 | 53.95 | 42.37 | 74.00 | -31.63 | Peak |
| 1374.000 | HORIZONTAL | -9.57 | 55.66 | 46.08 | 74.00 | -27.92 | Peak |
| 1544.000 | HORIZONTAL | -8.45 | 56.04 | 47.59 | 74.00 | -26.41 | Peak |
| 2326.000 | HORIZONTAL | -5.05 | 48.60 | 43.55 | 74.00 | -30.45 | Peak |
| 2462.000 | HORIZONTAL | -4.89 | 46.83 | 41.93 | 74.00 | -32.07 | Peak |
| 2768.000 | HORIZONTAL | -4.04 | 50.13 | 46.09 | 74.00 | -27.91 | Peak |

Remark:
1. Level (dBμV/m) = Factor (dB) + Read Level (dBμV)
2. Factor = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier Gain (dB)
(*The Amplifier Gain depended on measure equipment, see test equipment list.)
3. Over Limit (dB) = Level (dBμV/m) – Limit Line (dBμV/m)

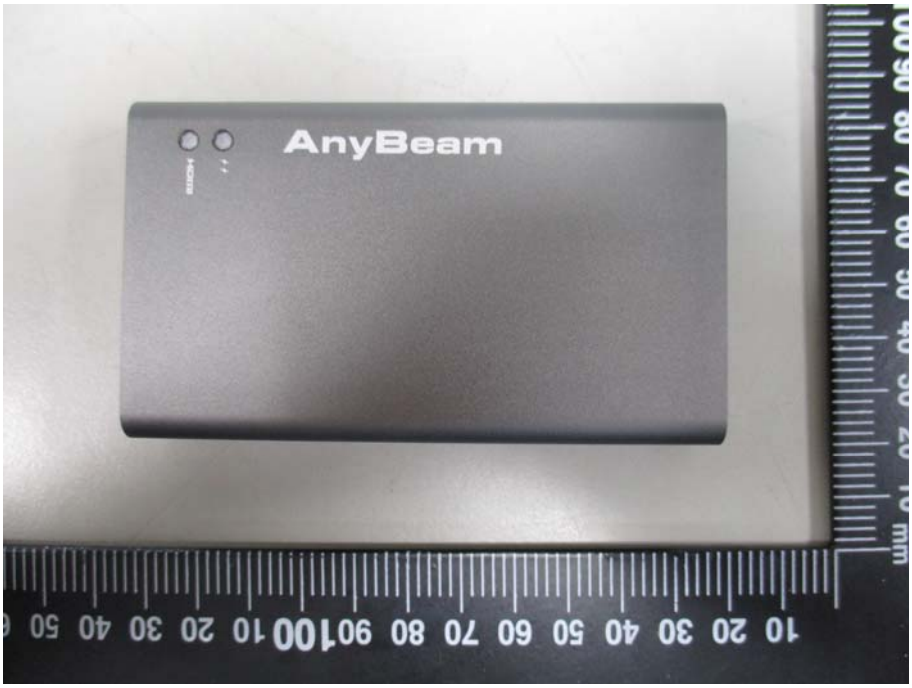


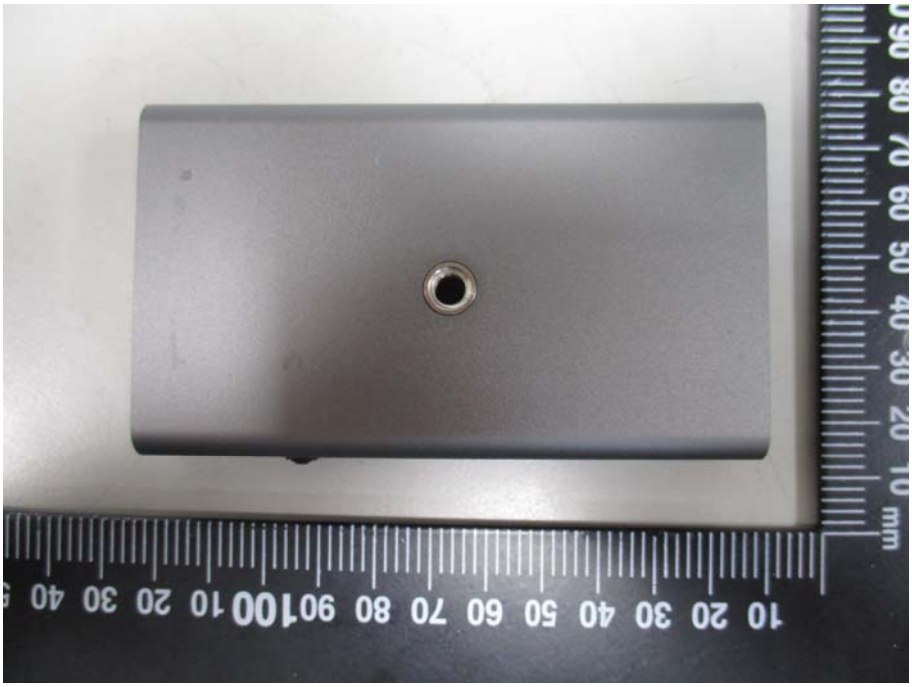
**Appendix A: Uncertainty**

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

| Item | Uncertainty |
|---|---|
| Conducted disturbance measurements at a mains port from 9 kHz to 30 MHz using a 50 Ω/50 µH +5Ω artificial mains network (AMN) | 2.48 dB |
| Vertically polarized radiated disturbances from 30 MHz~1 GHz in an open area test site at a distance of 10 m | 4.96 dB |
| Horizontally polarized radiated disturbances from 30 MHz~1 GHz in an open area test site at a distance of 10 m | 4.95 dB |
| Vertically polarized radiated disturbances from 30 MHz~1 GHz in a semi-anechoic chamber at a distance of 3 m | 5.14 dB |
| Horizontally polarized radiated disturbances from 30 MHz~1 GHz in a semi-anechoic chamber at a distance of 3 m | 5.22 dB |
| Vertically polarized Radiated disturbances from 1 GHz~18 GHz in a semi-anechoic chamber at a distance of 3 m | 3.64 dB |
| Horizontally polarized Radiated disturbances from 1 GHz~18 GHz in a semi-anechoic chamber at a distance of 3 m | 3.64 dB |

## Appendix B1: External photo of EUT

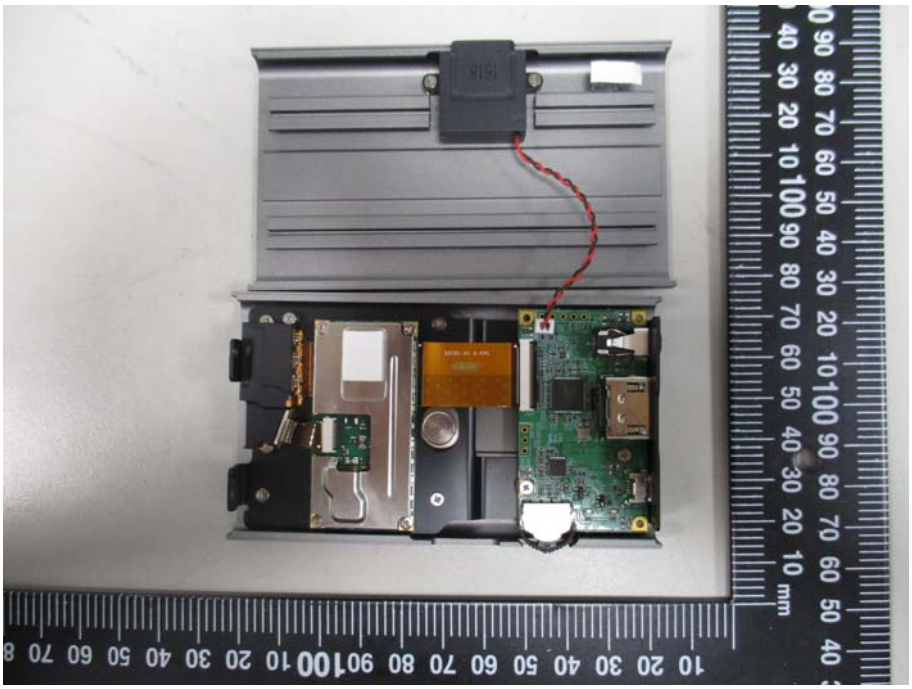


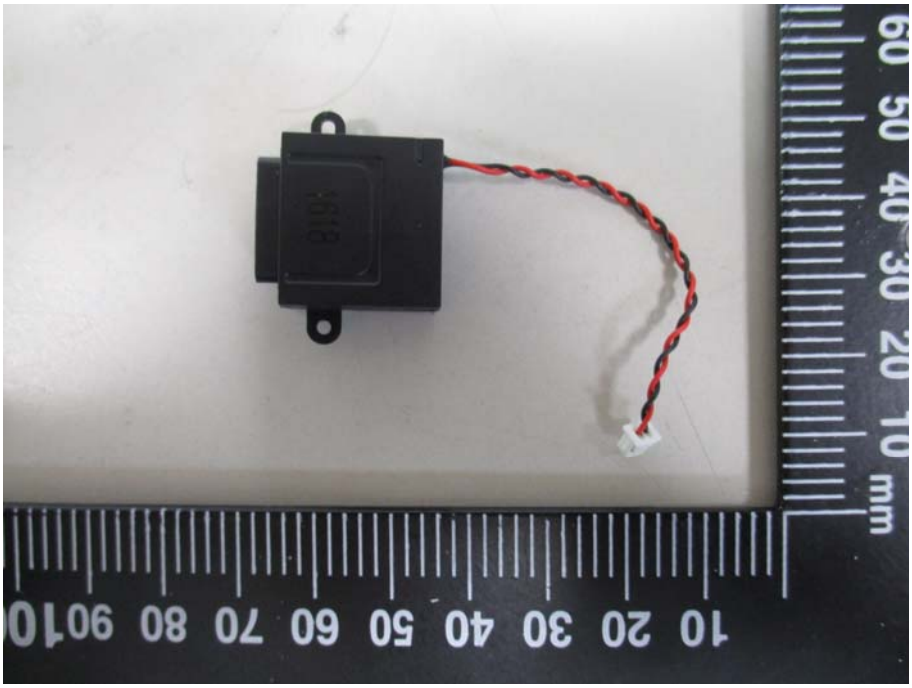



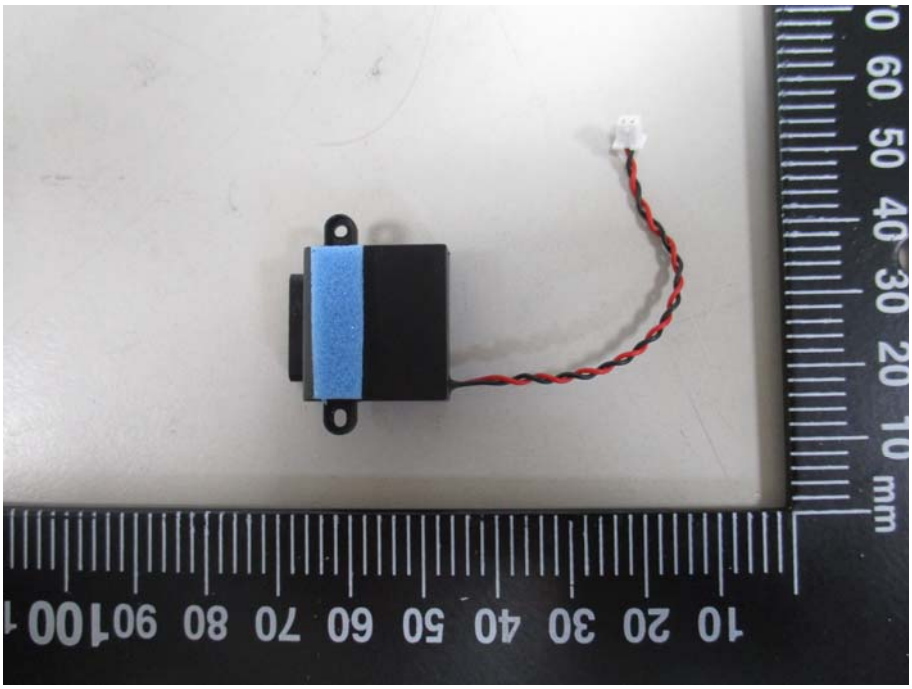

AnyBeam

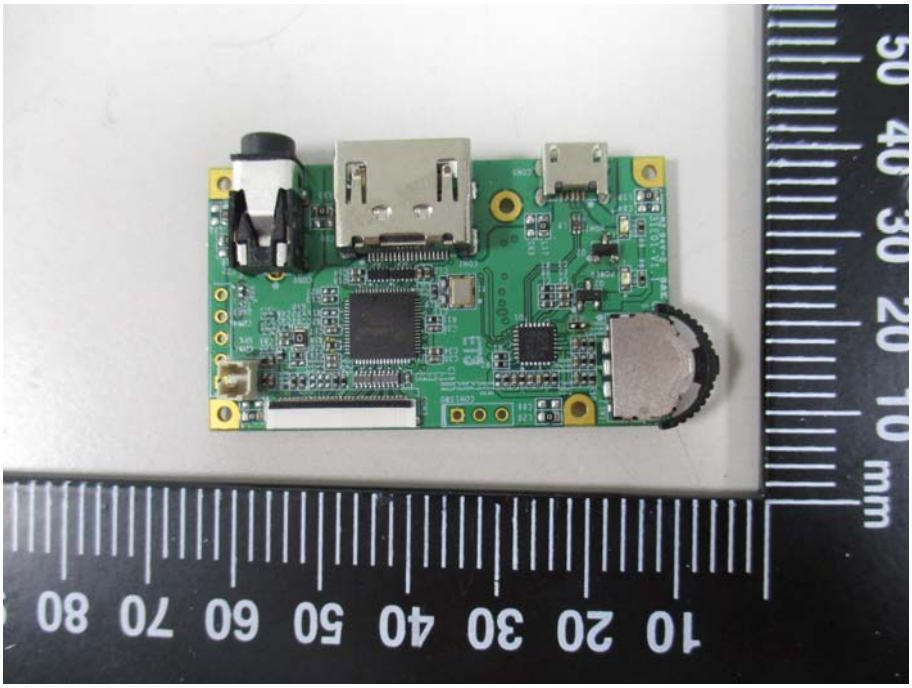

AnyBeam
ENTER

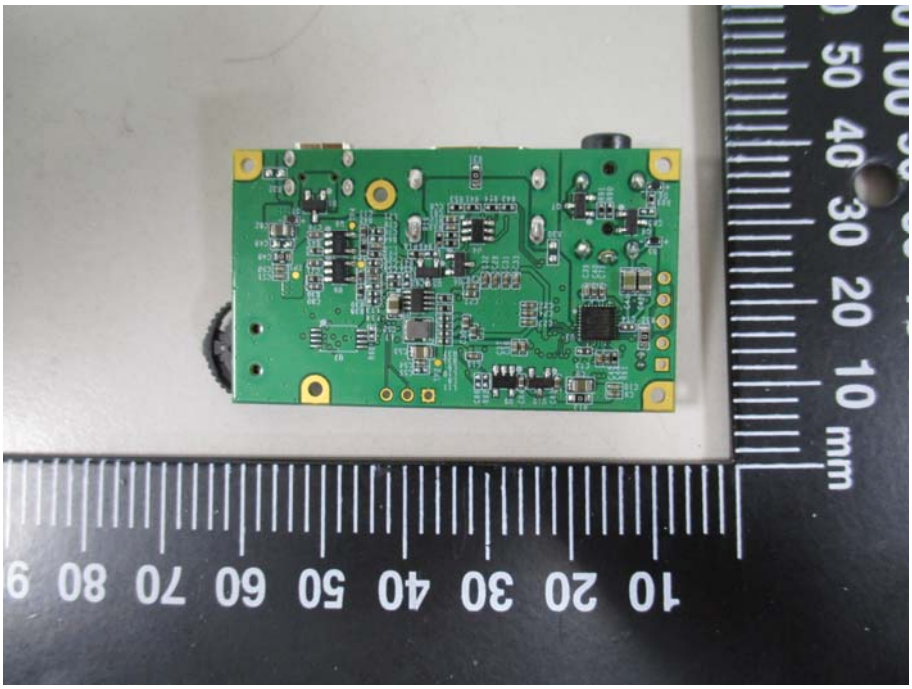
## Appendix B2: Internal photo of EUT

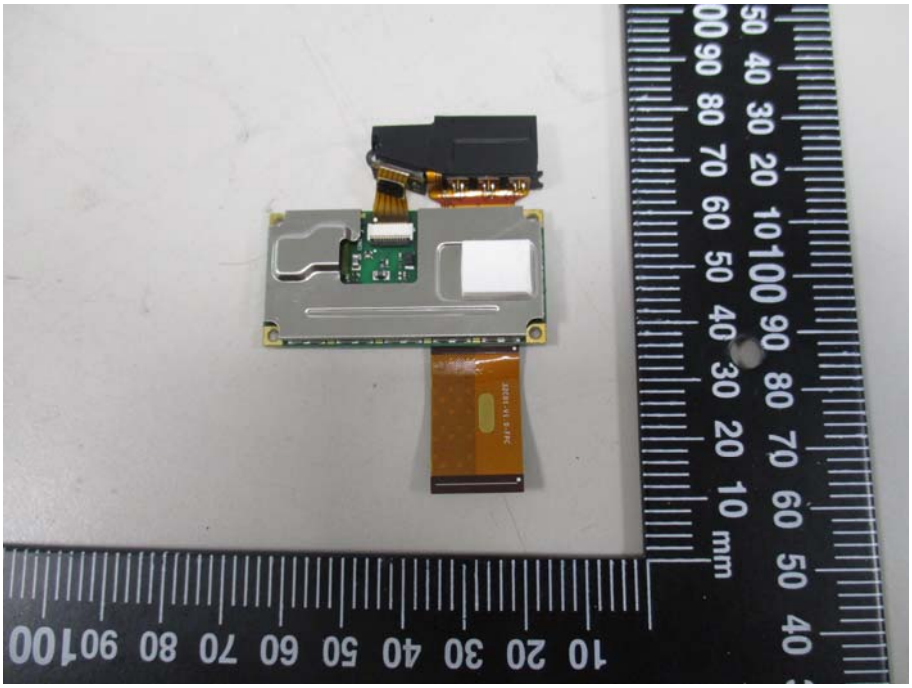


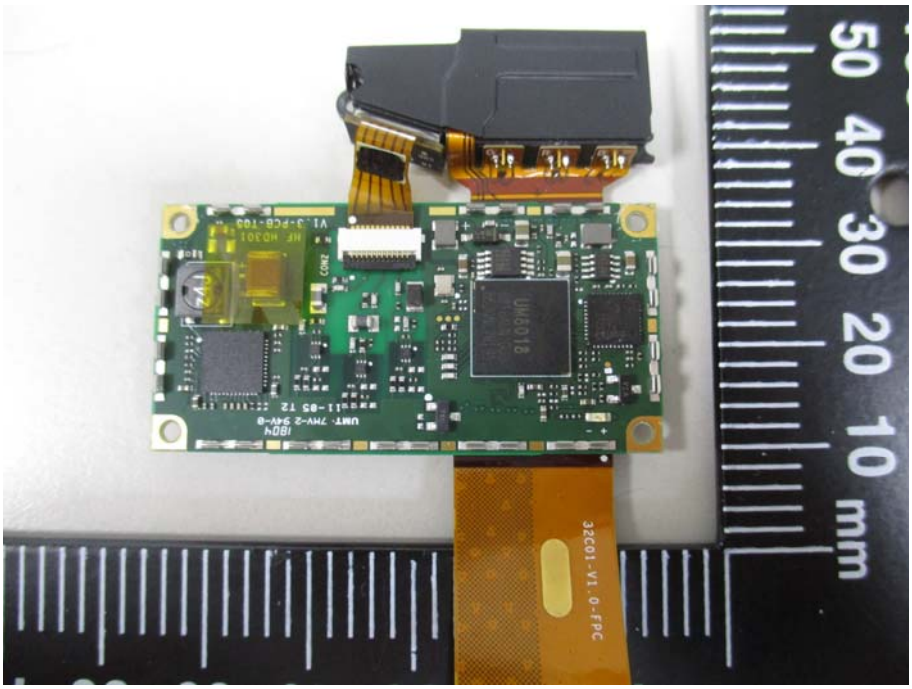


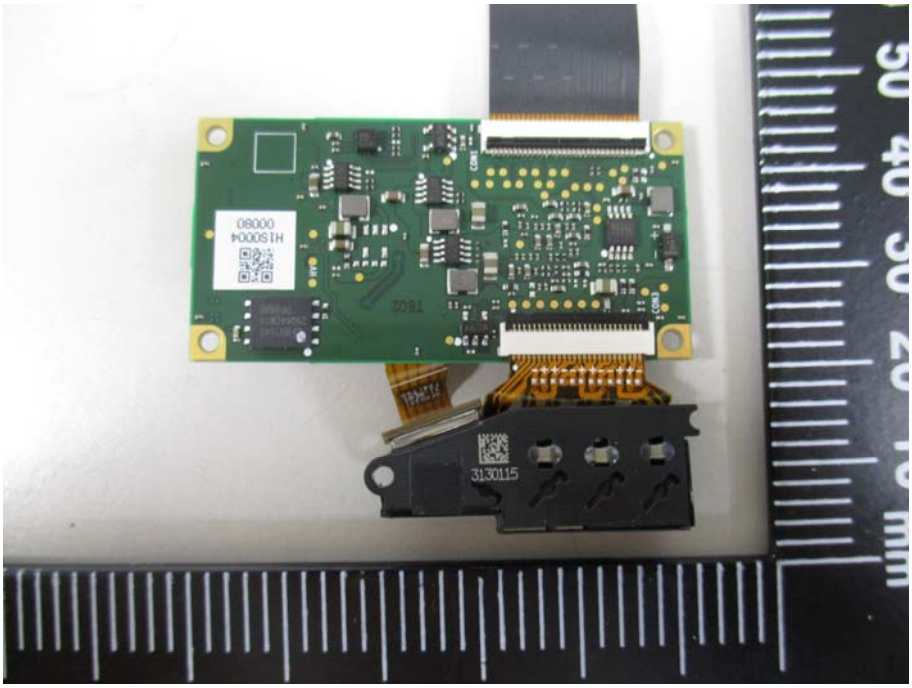




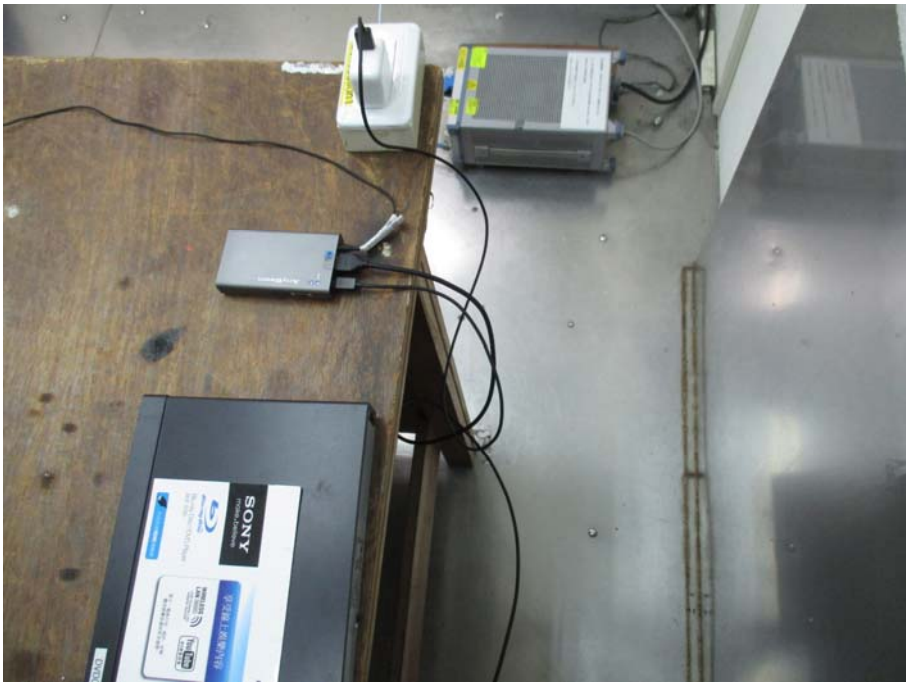





50 40 30 20 10 mm
UM6018
32C01-V1.0-FPC


50 40 30
3130115

## Appendix C1: Conducted Emission Test Set-up



## Appendix C2: Radiated Emission Test Set-up (Below 1 GHz)

## Appendix C3: Radiated Emission Test Set-up (Above 1 GHz)