

# EMC TEST REPORT



Report No.: 16070822-FCC-E

Supersede Report No.:N/A

|   |  |   |
|---|--|---|
| Applicant   | AOC  |   |
| Product Name  | Tablet PC  |   |
| Model No.   | A725   |   |
| Serial No.  | A721,A722,A723,A724,A726,A727,A728,A729                                |   |
| Test Standard   | FCC Part 15 Subpart B Class B:2015, ANSI C63.4: 2014                   |   |
| Test Date   | July 22 to August 05, 2016   |   |
| Issue Date  | August 06, 2016  |   |
| Test Result   | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail |   |
| Equipment complied with the specification <input checked="" type="checkbox"/>     |  |   |
| Equipment did not comply with the specification <input type="checkbox"/>          |  |   |
| Loren Luo   | David Huang  |  |
| Loren Luo<br>Test Engineer  | David Huang<br>Checked By  |   |
| This test report may be reproduced in full only                                   |  |   |
| Test result presented in this test report is applicable to the tested sample only |  |   |

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China 518108

Phone: +86 0755 2601 4629801 Email: [China@siemic.com.cn](mailto:China@siemic.com.cn)

## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

| Country/Region | Scope                              |
|----------------|------------------------------------|
| USA            | EMC, RF/Wireless, SAR, Telecom     |
| Canada         | EMC, RF/Wireless, SAR, Telecom     |
| Taiwan         | EMC, RF, Telecom, SAR, Safety      |
| Hong Kong      | RF/Wireless, SAR, Telecom          |
| Australia      | EMC, RF, Telecom, SAR, Safety      |
| Korea          | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan          | EMI, RF/Wireless, SAR, Telecom     |
| Singapore      | EMC, RF, SAR, Telecom              |
| Europe         | EMC, RF, SAR, Telecom, Safety      |

|             |                |
|-------------|----------------|
| Test Report | 16070822-FCC-E |
| Page        | 3 of 30        |

This page has been left blank intentionally.

## CONTENTS

|  |    |
|--|----|
| 1. REPORT REVISION HISTORY .....                                   | 5  |
| 2. CUSTOMER INFORMATION .....                                      | 5  |
| 3. TEST SITE INFORMATION.....                                      | 5  |
| 4. EQUIPMENT UNDER TEST (EUT) INFORMATION .....                    | 6  |
| 5. TEST SUMMARY .....  | 8  |
| 6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS .....             | 9  |
| 6.1 AC POWER LINE CONDUCTED EMISSIONS.....                         | 9  |
| 6.2 RADIATED EMISSIONS .....                                       | 15 |
| ANNEX A. TEST INSTRUMENT.....                                      | 20 |
| ANNEX B. EUT AND TEST SETUP PHOTOGRAPHS.....                       | 21 |
| ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT.....                  | 26 |
| ANNEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST ..... | 29 |
| ANNEX E. DECLARATION OF SIMILARITY .....                           | 30 |

## 1. Report Revision History

| Report No.     | Report Version | Description | Issue Date      |
|----------------|----------------|-------------|-----------------|
| 16070822-FCC-E | NONE           | Original    | August 06, 2016 |
|                |                |             |                 |
|                |                |             |                 |
|                |                |             |                 |
|                |                |             |                 |
|                |                |             |                 |

## 2. Customer information

|                  |  |
|------------------|--|
| Applicant Name   | AOC  |
| Applicant Add    | 14F-5, NO.258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan                         |
| Manufacturer     | China Great Wall Computer Shenzhen Co., Ltd.   |
| Manufacturer Add | No.Great Wall Computer Industrial Park,Bao Shi East Road,Bao' an Bistrict,Shenzhen,P.R.China |

## 3. Test site information

|                      |  |
|----------------------|--|
| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES   |
| Lab Address          | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park<br>South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China<br>518108 |
| FCC Test Site No.    | 718246   |
| IC Test Site No.     | 4842E-1  |
| Test Software        | Radiated Emission Program-To Shenzhen v2.0   |

#### 4. Equipment under Test (EUT) Information

Description of EUT: Tablet PC

Main Model: A725

Serial Model: A721,A722,A723,A724,A726,A727,A728,A729

Antenna Gain: Bluetooth/BLE/WIFI: 0dBi

Antenna Type: PIFA antenna

Adapter:

Model:LFS0501500D-A8S

Input Power: Input: AC 100-240V~50/60Hz;0.5A  
 Output: DC 5.0V,1500mA

Battery:

Spec: 3.7V,2500mAh(9.25Wh)

Equipment Category : JBC

802.11b/g/n: DSSS, OFDM

Type of Modulation: Bluetooth: GFSK, π /4DQPSK, 8DPSK  
 BLE: GFSK

RF Operating Frequency (ies): WIFI: 802.11b/g/n(20M): 2412-2472 MHz  
 Bluetooth& BLE: 2402-2480 MHz

WIFI :802.11b/g/n(20M): 13CH

Number of Channels: Bluetooth: 79CH  
 BLE: 40CH

Port: Earphone Port, USB Port , SD Card Port

Trade Name : AOC

FCC ID: 2AEB5-A725

Date EUT received: July 21, 2016

|             |                |
|-------------|----------------|
| Test Report | 16070822-FCC-E |
| Page        | 7 of 30        |

Test Date(s): July 22 to August 05, 2016

## 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

| FCC Rules                 | Description of Test               | Result     |
|---------------------------|-----------------------------------|------------|
| §15.107; ANSI C63.4: 2014 | AC Power Line Conducted Emissions | Compliance |
| §15.109; ANSI C63.4: 2014 | Radiated Emissions                | Compliance |

### Measurement Uncertainty

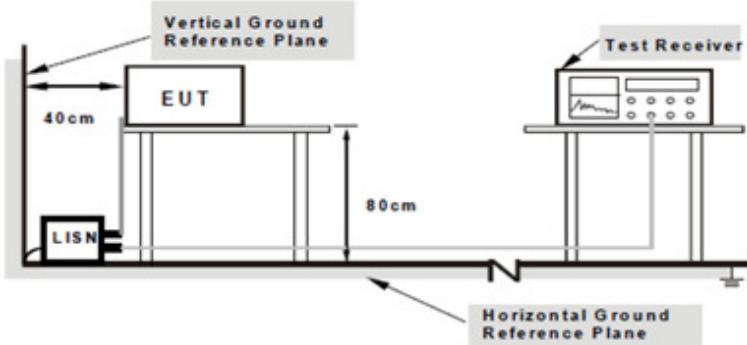
| Emissions                                 |   |               |
|---|---|---------------|
| Test Item                                 | Description   | Uncertainty   |
| Band Edge and Radiated Spurious Emissions | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +5.6dB/-4.5dB |
| -   | -   | -             |

## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

|                      |                 |
|----------------------|-----------------|
| Temperature          | 24°C            |
| Relative Humidity    | 56%             |
| Atmospheric Pressure | 1004mbar        |
| Test date :          | August 04, 2016 |
| Tested By :          | Loren Luo       |

#### Requirement(s):

| Spec                      | Item  | Requirement   | Applicable                |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
|---------------------------|---|---|---------------------------|--------------------|--|----|---------|------------|---------|---------|---------|----|----|--------|----|----|-------------------------------------|
| 47CFR§15.<br>107          | a)  | <p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges<br/>(MHz)</th> <th colspan="2">Limit (dB<math>\mu</math>V)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> | Frequency ranges<br>(MHz) | Limit (dB $\mu$ V) |  | QP | Average | 0.15 ~ 0.5 | 66 – 56 | 56 – 46 | 0.5 ~ 5 | 56 | 46 | 5 ~ 30 | 60 | 50 | <input checked="" type="checkbox"/> |
| Frequency ranges<br>(MHz) | Limit (dB $\mu$ V)  |   |                           |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
|                           | QP  | Average   |                           |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
| 0.15 ~ 0.5                | 66 – 56   | 56 – 46   |                           |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
| 0.5 ~ 5                   | 56  | 46  |                           |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
| 5 ~ 30                    | 60  | 50  |                           |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
| Test Setup                |  <p>The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a table. A LISN (Line Impedance Stabilization Network) is connected between the EUT and the power source. A Test Receiver is connected to the LISN. The setup is positioned on a horizontal ground reference plane. The distance between the LISN and the EUT is 40 cm, and the distance between the LISN and the Test Receiver is 80 cm. A vertical ground reference plane is also indicated.</p> <p><b>Note:</b><br/>   1. Support units were connected to second LISN.<br/>   2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p> |   |                           |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |
| Procedure                 | <ol style="list-style-type: none"> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains.</li> </ol>  |   |                           |                    |  |    |         |            |         |         |         |    |    |        |    |    |                                     |

|        |  |
|--------|--|
|        | <ol style="list-style-type: none"> <li>3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>4. All other supporting equipment were powered separately from another main supply.</li> <li>5. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.</li> <li>7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz.</li> <li>8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).</li> </ol> |
| Remark |  |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail   |

Test Data  Yes  N/A

Test Plot  Yes (See below)  N/A

**Test Mode 1:** USB Mode

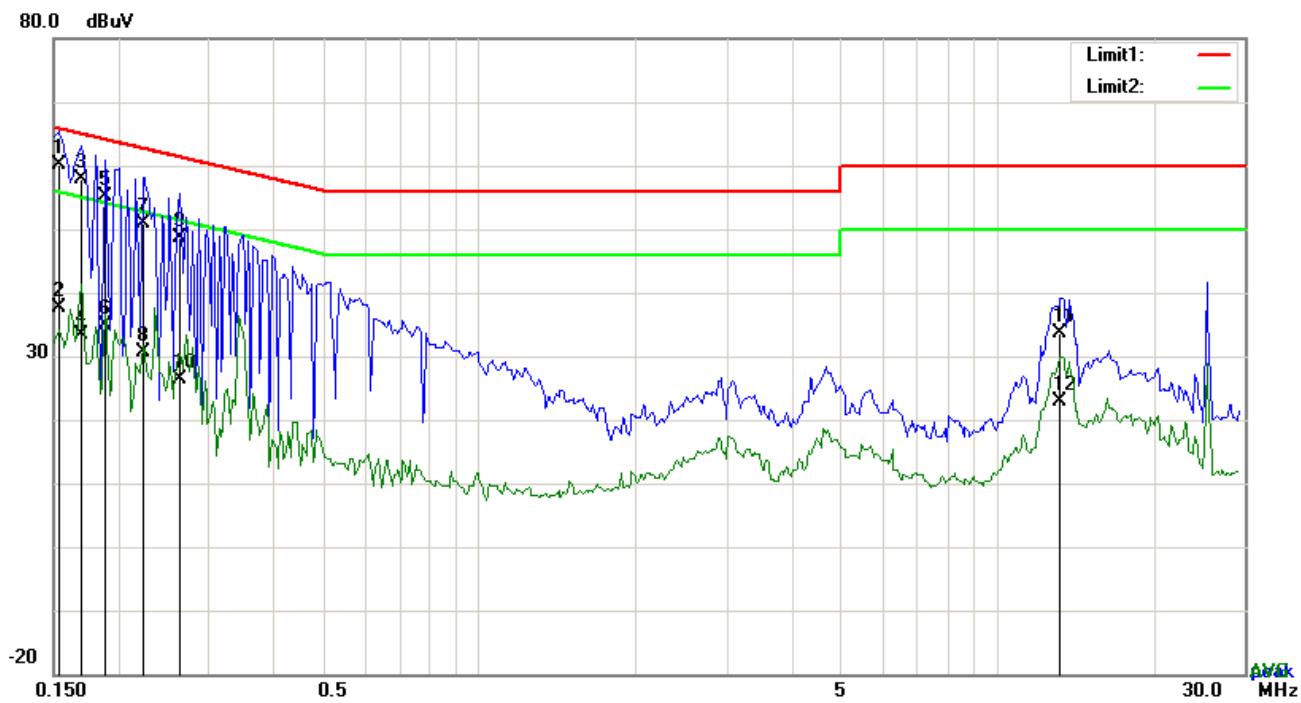
**Test Mode 2:** MP4 Mode

**Test Mode 3:** Camera Mode

**Test Mode 4:** SD Card Mode

All modes were investigated. The result below show only the worst case.

Test Mode: **USB Mode**

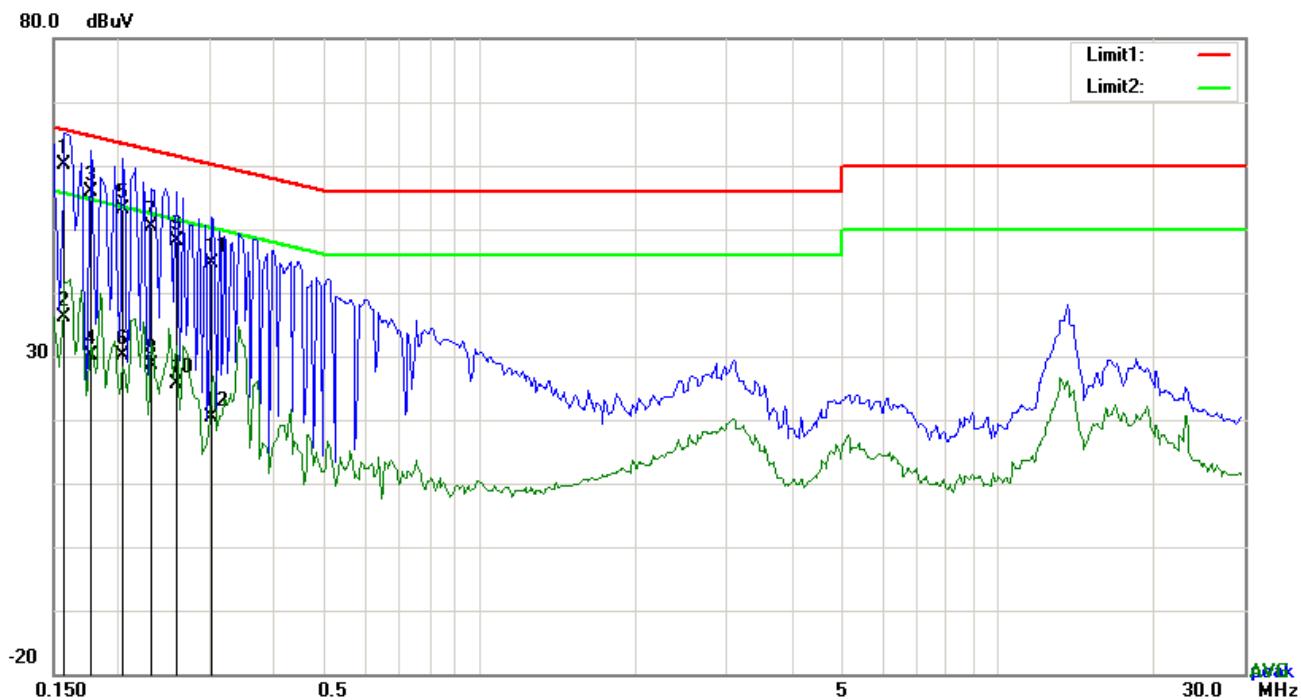


**Test Data**

**Phase Line Plot at 120Vac, 60Hz**

| No. | P/L | Frequency<br>(MHz) | Reading<br>(dBuV) | Detector | Corrected<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|
| 1   | L1  | 0.1539             | 50.01             | QP       | 10.03             | 60.04            | 65.79           | -5.75          |
| 2   | L1  | 0.1539             | 27.62             | AVG      | 10.03             | 37.65            | 55.79           | -18.14         |
| 3   | L1  | 0.1695             | 47.74             | QP       | 10.03             | 57.77            | 64.98           | -7.21          |
| 4   | L1  | 0.1695             | 23.40             | AVG      | 10.03             | 33.43            | 54.98           | -21.55         |
| 5   | L1  | 0.1890             | 45.10             | QP       | 10.03             | 55.13            | 64.08           | -8.95          |
| 6   | L1  | 0.1890             | 24.90             | AVG      | 10.03             | 34.93            | 54.08           | -19.15         |
| 7   | L1  | 0.2241             | 40.79             | QP       | 10.03             | 50.82            | 62.67           | -11.85         |
| 8   | L1  | 0.2241             | 20.56             | AVG      | 10.03             | 30.59            | 52.67           | -22.08         |
| 9   | L1  | 0.2631             | 38.48             | QP       | 10.03             | 48.51            | 61.33           | -12.82         |
| 10  | L1  | 0.2631             | 16.37             | AVG      | 10.03             | 26.40            | 51.33           | -24.93         |
| 11  | L1  | 13.2063            | 23.55             | QP       | 10.20             | 33.75            | 60.00           | -26.25         |
| 12  | L1  | 13.2063            | 12.77             | AVG      | 10.20             | 22.97            | 50.00           | -27.03         |

Test Mode: **USB Mode**

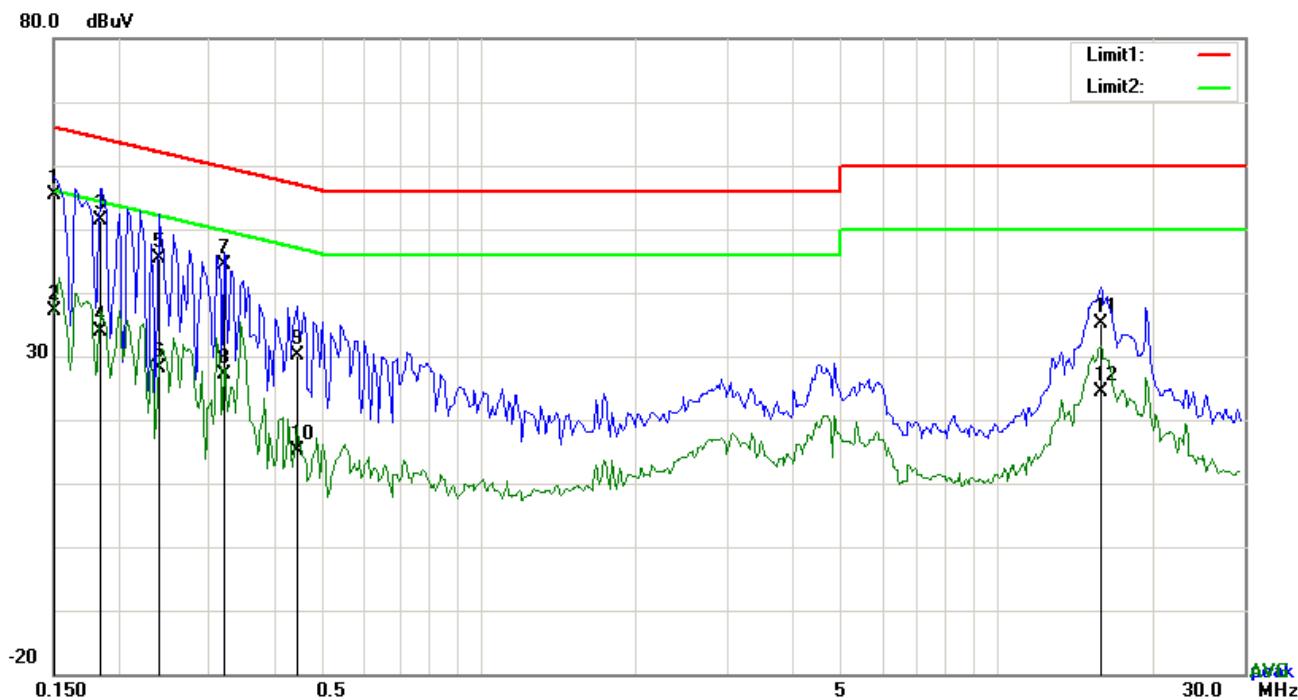


**Test Data**

Phase Neutral Plot at 120Vac, 60Hz

| No. | P/L | Frequency<br>(MHz) | Reading<br>(dBuV) | Detector | Corrected<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|
| 1   | N   | 0.1578             | 50.14             | QP       | 10.02             | 60.16            | 65.58           | -5.42          |
| 2   | N   | 0.1578             | 26.04             | AVG      | 10.02             | 36.06            | 55.58           | -19.52         |
| 3   | N   | 0.1773             | 45.98             | QP       | 10.02             | 56.00            | 64.61           | -8.61          |
| 4   | N   | 0.1773             | 20.10             | AVG      | 10.02             | 30.12            | 54.61           | -24.49         |
| 5   | N   | 0.2046             | 43.23             | QP       | 10.02             | 53.25            | 63.42           | -10.17         |
| 6   | N   | 0.2046             | 20.02             | AVG      | 10.02             | 30.04            | 53.42           | -23.38         |
| 7   | N   | 0.2319             | 40.38             | QP       | 10.02             | 50.40            | 62.38           | -11.98         |
| 8   | N   | 0.2319             | 18.65             | AVG      | 10.02             | 28.67            | 52.38           | -23.71         |
| 9   | N   | 0.2592             | 38.21             | QP       | 10.02             | 48.23            | 61.46           | -13.23         |
| 10  | N   | 0.2592             | 15.49             | AVG      | 10.02             | 25.51            | 51.46           | -25.95         |
| 11  | N   | 0.3021             | 34.55             | QP       | 10.02             | 44.57            | 60.18           | -15.61         |
| 12  | N   | 0.3021             | 10.45             | AVG      | 10.02             | 20.47            | 50.18           | -29.71         |

Test Mode: **USB Mode**

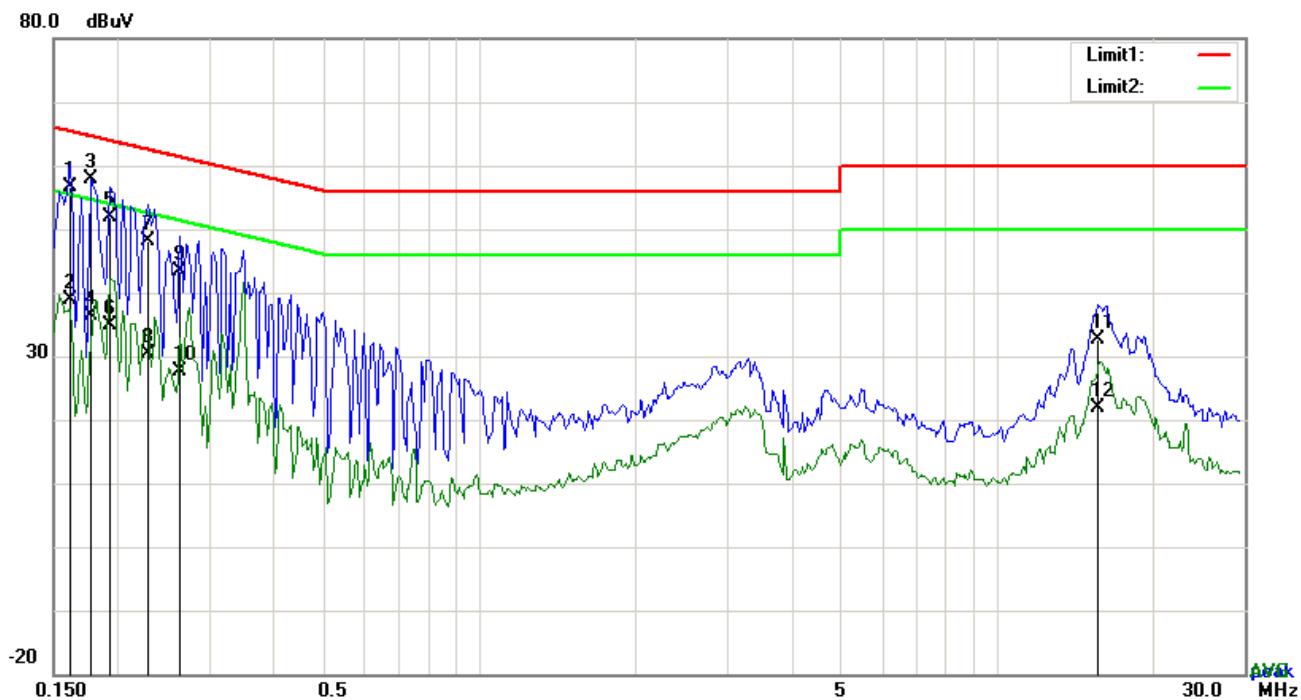


### Test Data

Phase Line Plot at 240Vac, 60Hz

| No. | P/L | Frequency<br>(MHz) | Reading<br>(dBuV) | Detector | Corrected<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|
| 1   | L1  | 0.1500             | 45.34             | QP       | 10.03             | 55.37            | 66.00           | -10.63         |
| 2   | L1  | 0.1500             | 27.08             | AVG      | 10.03             | 37.11            | 56.00           | -18.89         |
| 3   | L1  | 0.1851             | 41.32             | QP       | 10.03             | 51.35            | 64.25           | -12.90         |
| 4   | L1  | 0.1851             | 23.92             | AVG      | 10.03             | 33.95            | 54.25           | -20.30         |
| 5   | L1  | 0.2397             | 35.45             | QP       | 10.03             | 45.48            | 62.11           | -16.63         |
| 6   | L1  | 0.2397             | 18.01             | AVG      | 10.03             | 28.04            | 52.11           | -24.07         |
| 7   | L1  | 0.3216             | 34.46             | QP       | 10.03             | 44.49            | 59.67           | -15.18         |
| 8   | L1  | 0.3216             | 17.05             | AVG      | 10.03             | 27.08            | 49.67           | -22.59         |
| 9   | L1  | 0.4425             | 20.19             | QP       | 10.03             | 30.22            | 57.01           | -26.79         |
| 10  | L1  | 0.4425             | 5.11              | AVG      | 10.03             | 15.14            | 47.01           | -31.87         |
| 11  | L1  | 15.8310            | 24.83             | QP       | 10.24             | 35.07            | 60.00           | -24.93         |
| 12  | L1  | 15.8310            | 14.16             | AVG      | 10.24             | 24.40            | 50.00           | -25.60         |

Test Mode: **USB Mode**



**Test Data**

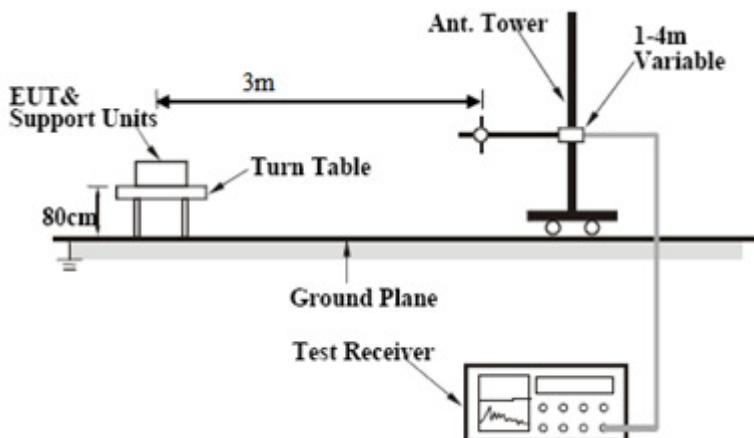
Phase Neutral Plot at 240Vac, 60Hz

| No. | P/L | Frequency<br>(MHz) | Reading<br>(dBuV) | Detector | Corrected<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) |
|-----|-----|--------------------|-------------------|----------|-------------------|------------------|-----------------|----------------|
| 1   | N   | 0.1617             | 46.64             | QP       | 10.02             | 56.66            | 65.38           | -8.72          |
| 2   | N   | 0.1617             | 28.90             | AVG      | 10.02             | 38.92            | 55.38           | -16.46         |
| 3   | N   | 0.1773             | 47.93             | QP       | 10.02             | 57.95            | 64.61           | -6.66          |
| 4   | N   | 0.1773             | 26.32             | AVG      | 10.02             | 36.34            | 54.61           | -18.27         |
| 5   | N   | 0.1929             | 41.86             | QP       | 10.02             | 51.88            | 63.91           | -12.03         |
| 6   | N   | 0.1929             | 24.77             | AVG      | 10.02             | 34.79            | 53.91           | -19.12         |
| 7   | N   | 0.2280             | 38.10             | QP       | 10.02             | 48.12            | 62.52           | -14.40         |
| 8   | N   | 0.2280             | 20.39             | AVG      | 10.02             | 30.41            | 52.52           | -22.11         |
| 9   | N   | 0.2631             | 33.45             | QP       | 10.02             | 43.47            | 61.33           | -17.86         |
| 10  | N   | 0.2631             | 17.58             | AVG      | 10.02             | 27.60            | 51.33           | -23.73         |
| 11  | N   | 15.6048            | 22.38             | QP       | 10.21             | 32.59            | 60.00           | -27.41         |
| 12  | N   | 15.6048            | 11.70             | AVG      | 10.21             | 21.91            | 50.00           | -28.09         |

## 6.2 Radiated Emissions

|                      |                 |
|----------------------|-----------------|
| Temperature          | 24°C            |
| Relative Humidity    | 56%             |
| Atmospheric Pressure | 1004mbar        |
| Test date :          | August 04, 2016 |
| Tested By :          | Loren Luo       |

### Requirement(s):

| Spec                  | Item                        | Requirement   | Applicable            |                             |         |     |          |     |           |     |           |     |                                     |
|-----------------------|-----------------------------|---|-----------------------|-----------------------------|---------|-----|----------|-----|-----------|-----|-----------|-----|-------------------------------------|
| 47CFR§15.109(d)       | a)                          | <p>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (<math>\mu</math>V/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 – 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table> | Frequency range (MHz) | Field Strength ( $\mu$ V/m) | 30 – 88 | 100 | 88 – 216 | 150 | 216 – 960 | 200 | Above 960 | 500 | <input checked="" type="checkbox"/> |
| Frequency range (MHz) | Field Strength ( $\mu$ V/m) |   |                       |                             |         |     |          |     |           |     |           |     |                                     |
| 30 – 88               | 100                         |   |                       |                             |         |     |          |     |           |     |           |     |                                     |
| 88 – 216              | 150                         |   |                       |                             |         |     |          |     |           |     |           |     |                                     |
| 216 – 960             | 200                         |   |                       |                             |         |     |          |     |           |     |           |     |                                     |
| Above 960             | 500                         |   |                       |                             |         |     |          |     |           |     |           |     |                                     |
| Test Setup            |                             |  <p>The diagram illustrates the test setup. A 'Turn Table' is positioned on a 'Ground Plane'. An 'EUT &amp; Support Units' is mounted on the turn table, with a vertical distance of '80cm' indicated. A 'Test Receiver' is connected to the turn table. A vertical 'Ant. Tower' is mounted on the turn table, with a height of '1-4m Variable' indicated. A horizontal distance of '3m' is shown between the EUT and the Ant. Tower.</p>   |                       |                             |         |     |          |     |           |     |           |     |                                     |
| Procedure             |                             | <ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:           <ol style="list-style-type: none"> <li>Vertical or horizontal polarization (whichever gave the higher emission level)</li> </ol> </li> </ol>   |                       |                             |         |     |          |     |           |     |           |     |                                     |

|        |   |
|--------|---|
|        | <p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</p> <p>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.</p> <p>The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth with Peak detection for Average Measurement as below at frequency above 1GHz.</p> <ul style="list-style-type: none"> <li>■ 1 kHz (Duty cycle &lt; 98%) <input type="checkbox"/> 10 Hz (Duty cycle &gt; 98%)</li> </ul> <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p> |
| Remark |   |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail  |

Test Data  Yes  N/A

Test Plot  Yes (See below)  N/A

**Test Mode 1:** USB Mode

**Test Mode 2:** MP4 Mode

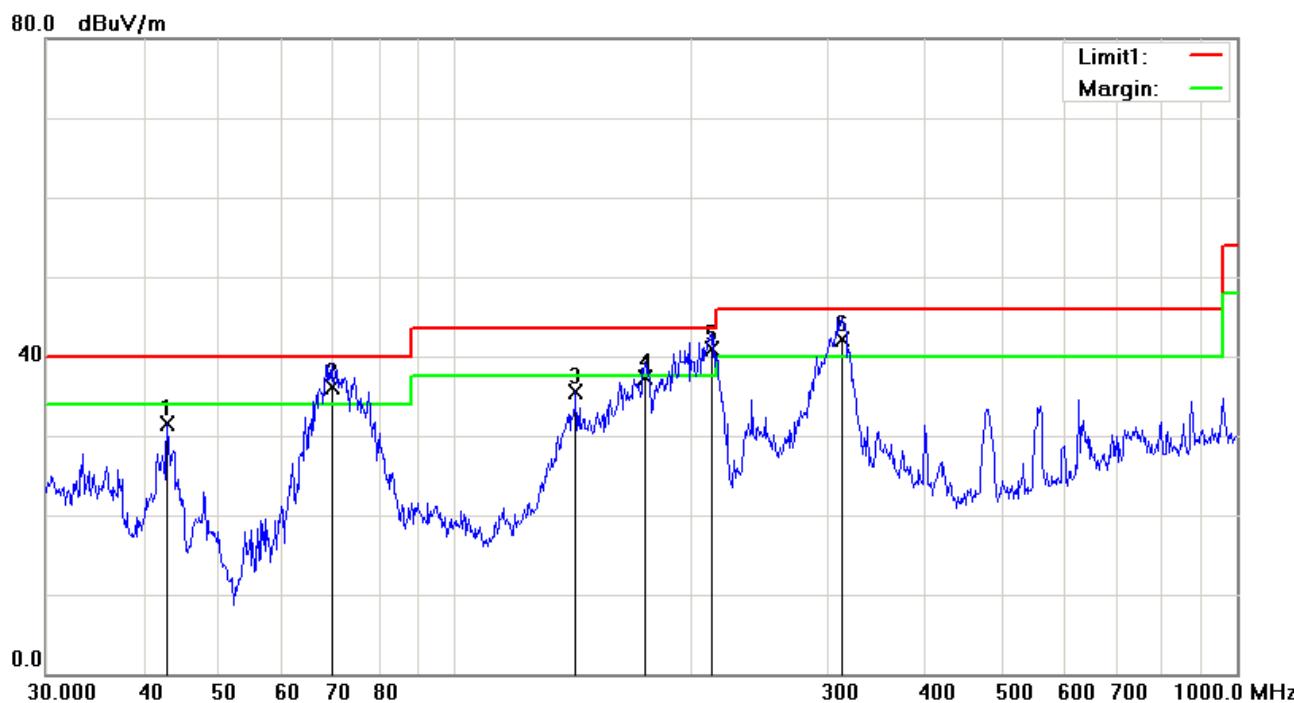
**Test Mode 3:** Camera Mode

**Test Mode 4:** SD Card Mode

All modes were investigated. The result below show only the worst case.

Test Mode : USB Mode

*Below 1GHz*

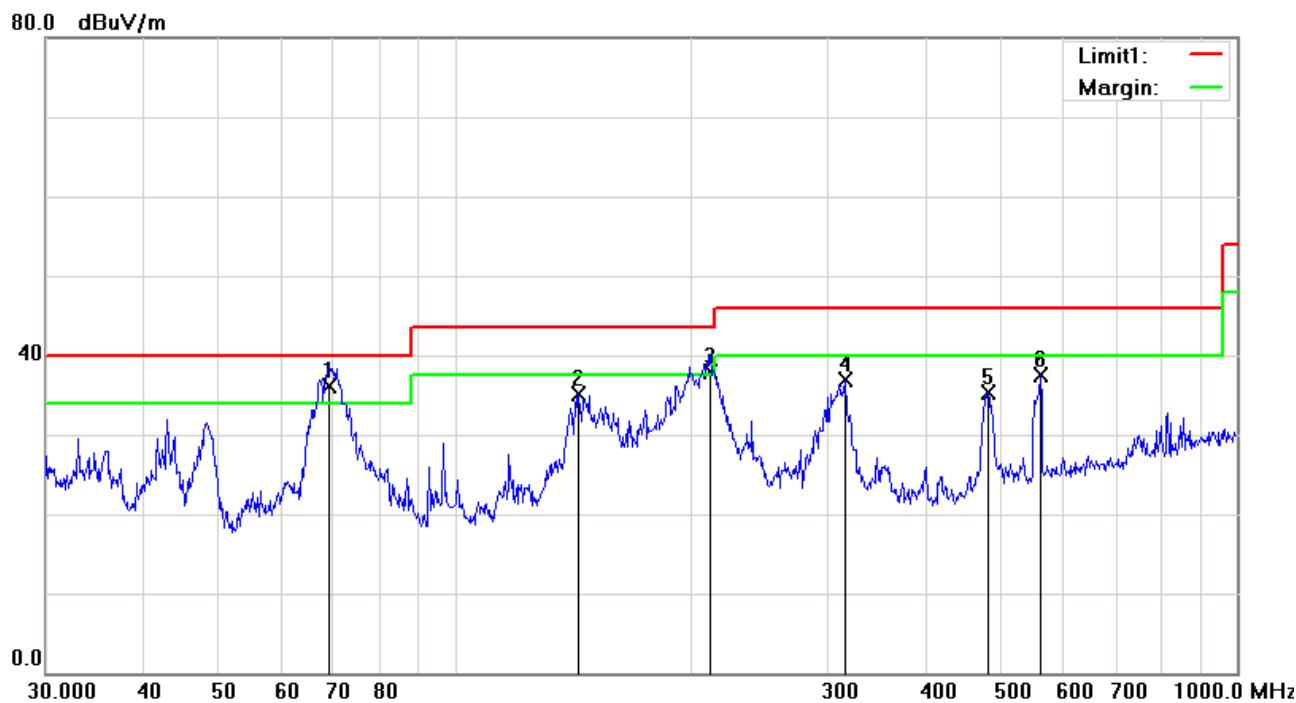


*Test Data*

Horizontal Polarity Plot @3m

| No. | P/L | Frequency | Reading  | Detector | Corrected | Result   | Limit    | Margin | Height | Degree |
|-----|-----|-----------|----------|----------|-----------|----------|----------|--------|--------|--------|
|     |     | (MHz)     | (dBuV/m) |          | (dB/m)    | (dBuV/m) | (dBuV/m) | (dB)   | (cm)   | ( )    |
| 1   | H   | 42.8998   | 41.03    | peak     | -9.53     | 31.50    | 40.00    | -8.50  | 100    | 246    |
| 2   | H   | 69.6005   | 49.77    | QP       | -13.63    | 36.14    | 40.00    | -3.86  | 100    | 135    |
| 3   | H   | 142.8244  | 43.99    | peak     | -8.50     | 35.49    | 43.50    | -8.01  | 100    | 347    |
| 4   | H   | 175.0368  | 46.75    | QP       | -9.49     | 37.26    | 43.50    | -6.24  | 100    | 122    |
| 5   | H   | 213.0151  | 49.81    | QP       | -8.86     | 40.95    | 43.50    | -2.55  | 100    | 67     |
| 6   | H   | 312.1794  | 48.74    | QP       | -6.55     | 42.19    | 46.00    | -3.81  | 100    | 194    |

**Below 1GHz**



**Test Data**

Vertical Polarity Plot @3m

| No. | P/L | Frequency | Reading  | Detector | Corrected | Result   | Limit    | Margin | Height | Degree |
|-----|-----|-----------|----------|----------|-----------|----------|----------|--------|--------|--------|
|     |     | (MHz)     | (dBuV/m) |          | (dB/m)    | (dBuV/m) | (dBuV/m) | (dB)   | (cm)   | ( )    |
| 1   | V   | 69.1141   | 49.78    | QP       | -13.66    | 36.12    | 40.00    | -3.88  | 100    | 331    |
| 2   | V   | 143.8295  | 43.67    | peak     | -8.48     | 35.19    | 43.50    | -8.31  | 100    | 331    |
| 3   | V   | 212.2695  | 46.85    | QP       | -8.85     | 38.00    | 43.50    | -5.50  | 100    | 353    |
| 4   | V   | 315.4808  | 43.32    | peak     | -6.45     | 36.87    | 46.00    | -9.13  | 100    | 359    |
| 5   | V   | 480.5276  | 37.49    | peak     | -2.23     | 35.26    | 46.00    | -10.74 | 100    | 359    |
| 6   | V   | 560.6928  | 38.13    | peak     | -0.64     | 37.49    | 46.00    | -8.51  | 100    | 338    |

**Above 1GHz**

| Frequency (MHz) | Amplitude (dB $\mu$ V/m) | Azimuth | Height (cm) | Polarity (H/V) | Factors (dB) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector (PK/AV) |
|-----------------|--------------------------|---------|-------------|----------------|--------------|----------------------|-------------|------------------|
| 732.56          | 50.32                    | 51      | 152         | V              | -20.32       | 74                   | -23.68      | PK               |
| 1325.66         | 56.44                    | 111     | 167         | V              | -21.52       | 74                   | -17.56      | PK               |
| 1341.5          | 51.25                    | 99      | 145         | V              | -23.42       | 74                   | -22.75      | PK               |
| 826.34          | 53.22                    | 78      | 263         | H              | -22.53       | 74                   | -20.78      | PK               |
| 1215.73         | 48.96                    | 112     | 210         | H              | -20.13       | 74                   | -25.04      | PK               |
| 1705.68         | 53.53                    | 135     | 186         | H              | -22.52       | 74                   | -20.47      | PK               |

*Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to 5\*2472MHz=12,360MHz.*

*Note2: The frequency that above 3GHz is mainly from the environment noise.*

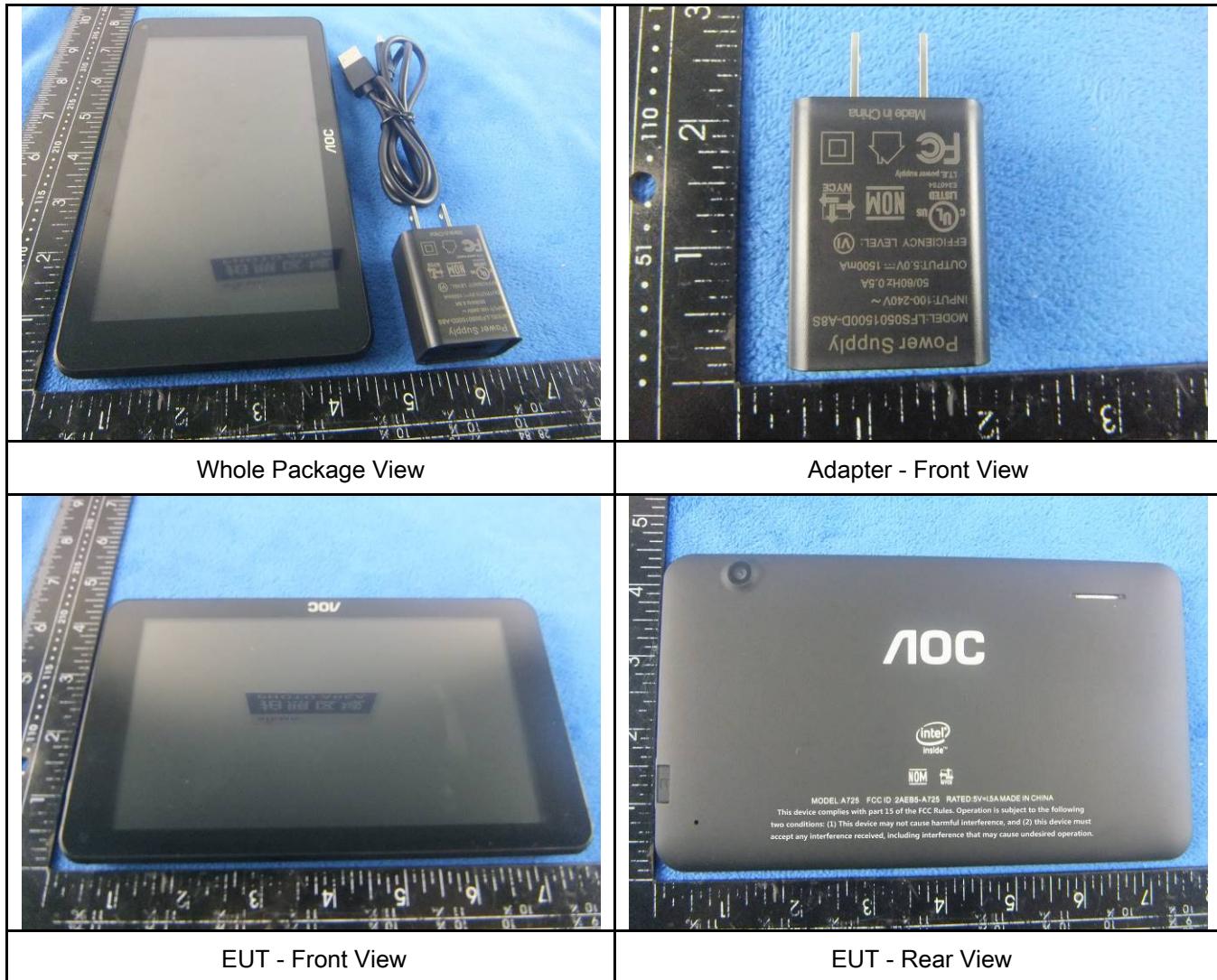
*Note3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.*

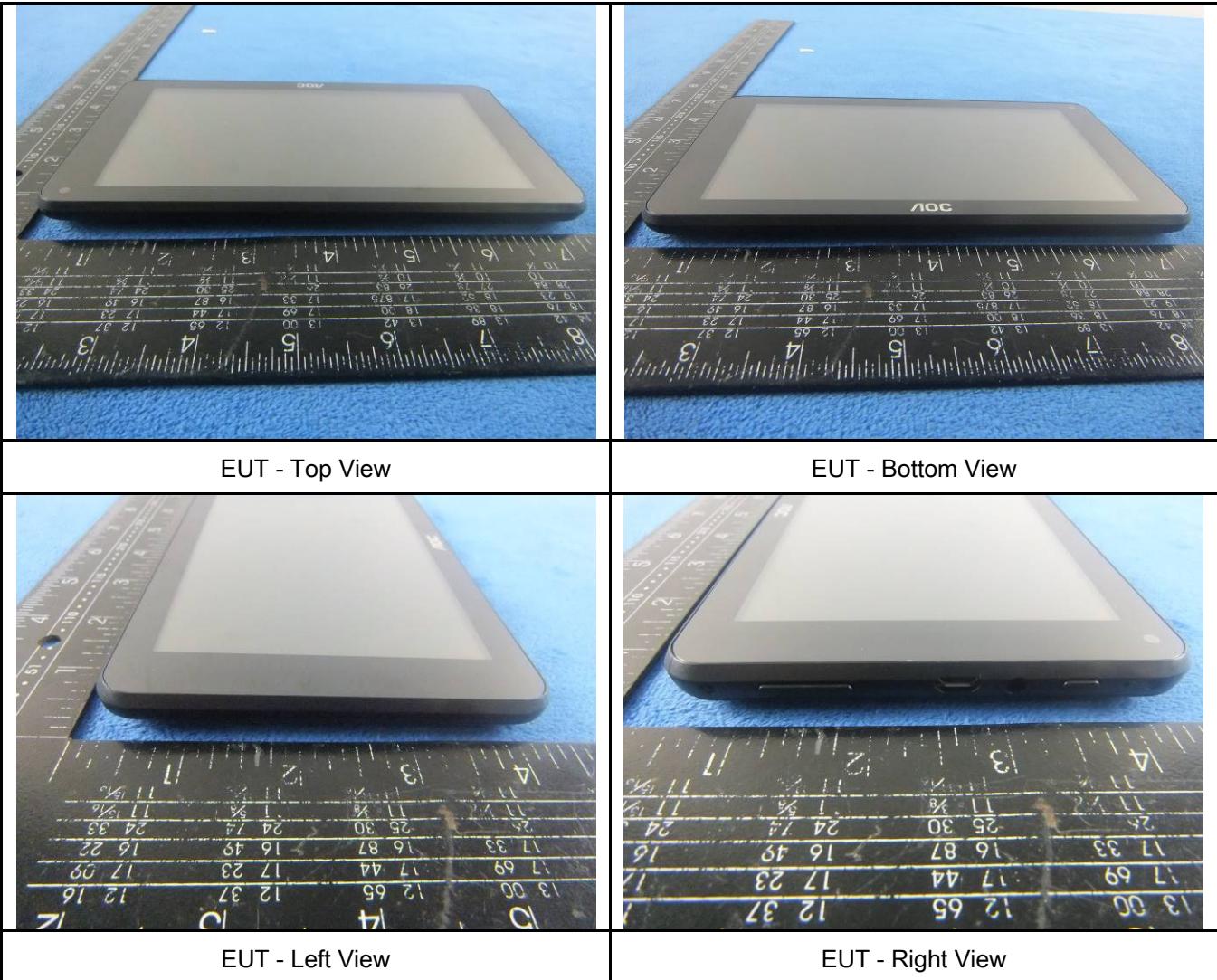
## Annex A. TEST INSTRUMENT

| Instrument                           | Model    | Serial #   | Cal Date   | Cal Due    | In use                              |
|--------------------------------------|----------|------------|------------|------------|-------------------------------------|
| <b>AC Line Conducted Emissions</b>   |          |            |            |            |                                     |
| EMI test receiver                    | ESCS30   | 8471241027 | 09/17/2015 | 09/16/2016 | <input checked="" type="checkbox"/> |
| Line Impedance Stabilization Network | LI-125A  | 191106     | 09/25/2015 | 09/24/2016 | <input checked="" type="checkbox"/> |
| Line Impedance Stabilization Network | LI-125A  | 191107     | 09/25/2015 | 09/24/2016 | <input checked="" type="checkbox"/> |
| LISN                                 | ISN T800 | 34373      | 09/25/2015 | 09/24/2016 | <input checked="" type="checkbox"/> |
| Transient Limiter                    | LIT-153  | 531118     | 09/01/2015 | 08/31/2016 | <input checked="" type="checkbox"/> |
| <b>Radiated Emissions</b>            |          |            |            |            |                                     |
| EMI test receiver                    | ESL6     | 100262     | 09/17/2015 | 09/16/2016 | <input checked="" type="checkbox"/> |
| OPT 010 AMPLIFIER (0.1-1300MHz)      | 8447E    | 2727A02430 | 09/01/2015 | 08/31/2016 | <input checked="" type="checkbox"/> |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B    | 3008A02402 | 03/24/2016 | 03/23/2017 | <input checked="" type="checkbox"/> |
| Bilog Antenna (30MHz~6GHz)           | JB6      | A110712    | 09/21/2015 | 09/20/2016 | <input checked="" type="checkbox"/> |
| Double Ridge Horn Antenna            | AH-118   | 71259      | 09/24/2015 | 09/23/2016 | <input checked="" type="checkbox"/> |

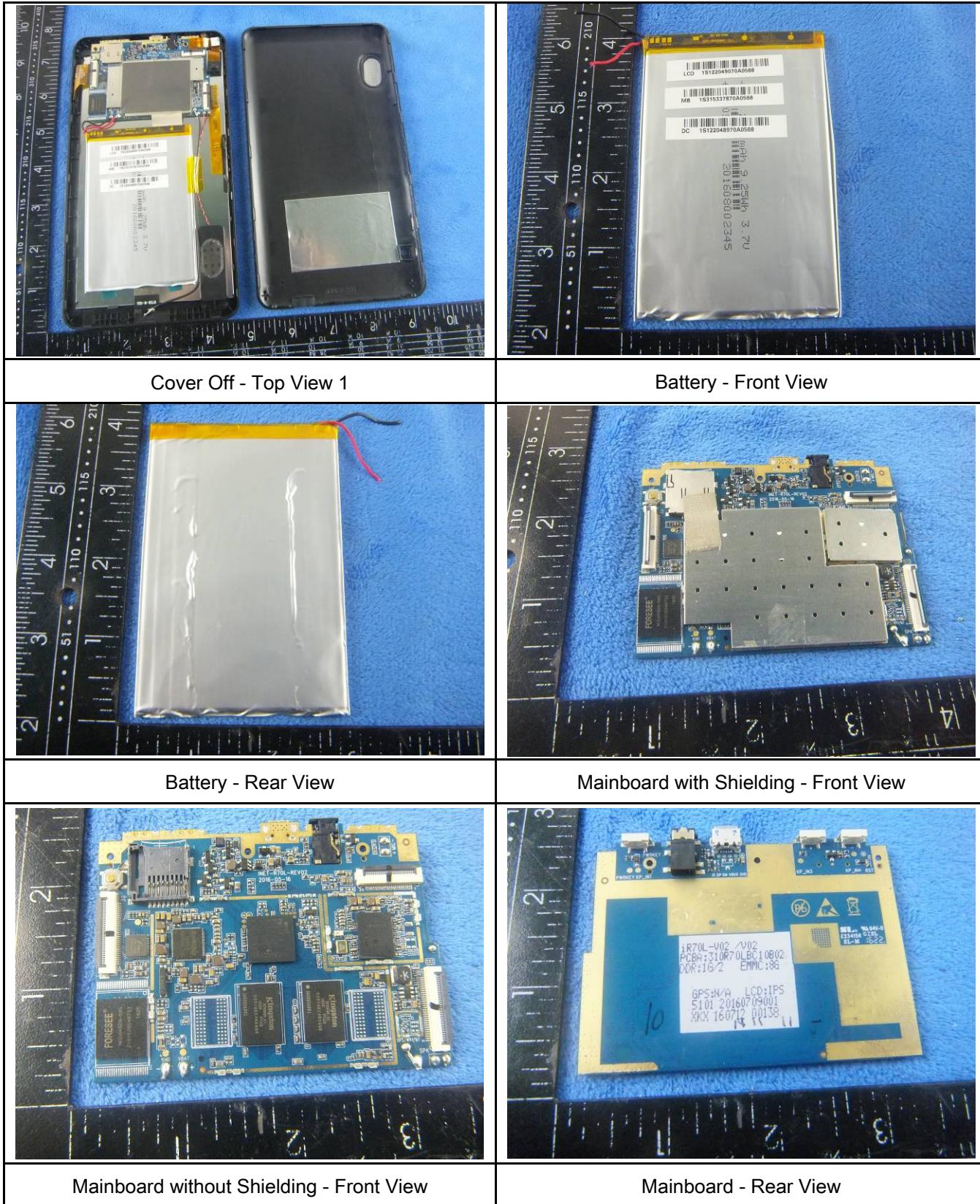
## Annex B. EUT And Test Setup Photographs

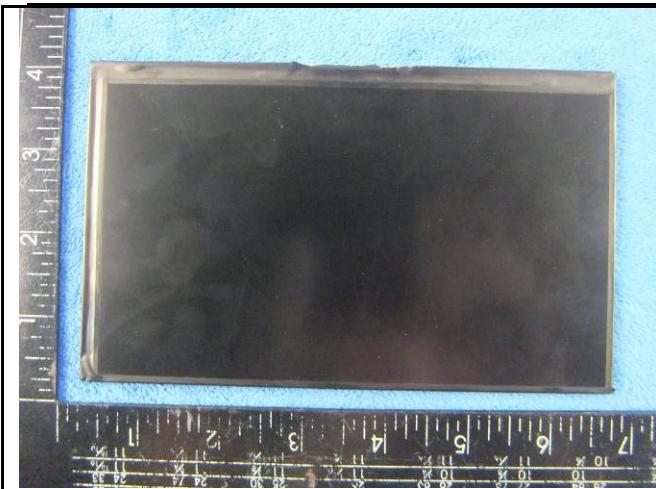
### Annex B.i. Photograph: EUT External Photo





**Annex B.ii. Photograph: EUT Internal Photo**

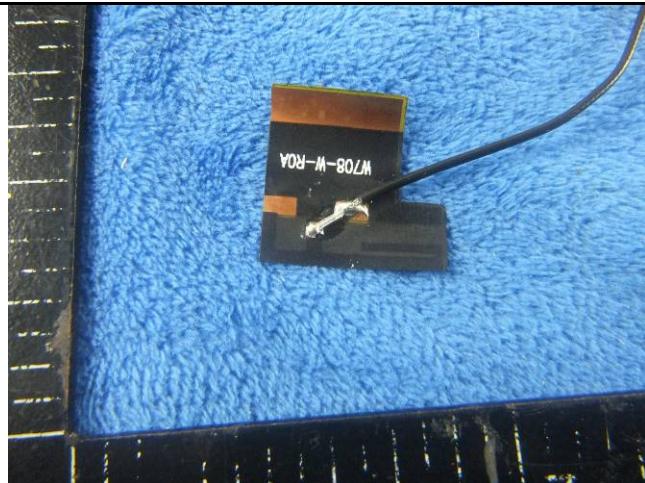




LCD – Front View

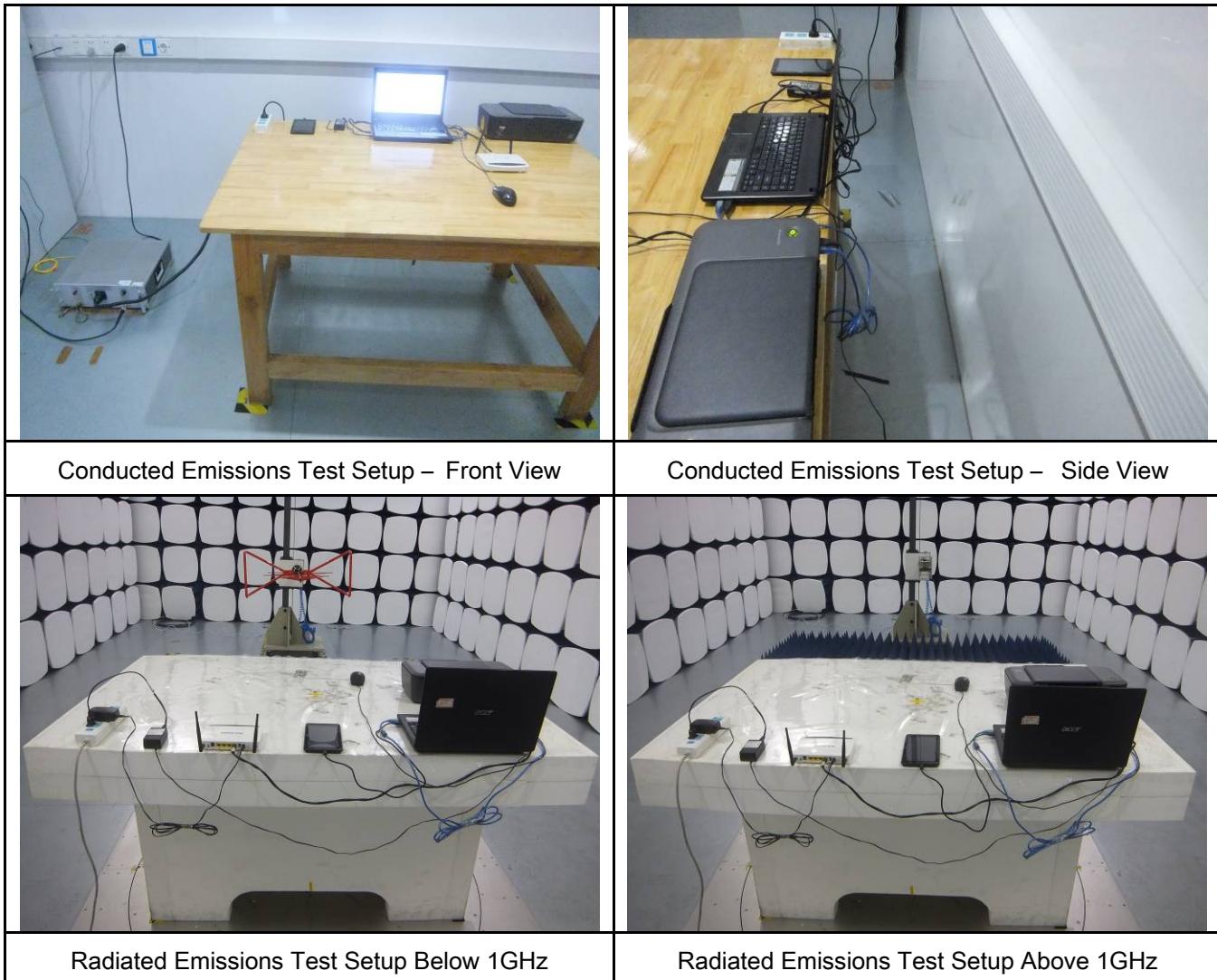


LCD – Rear View



BT Antenna View

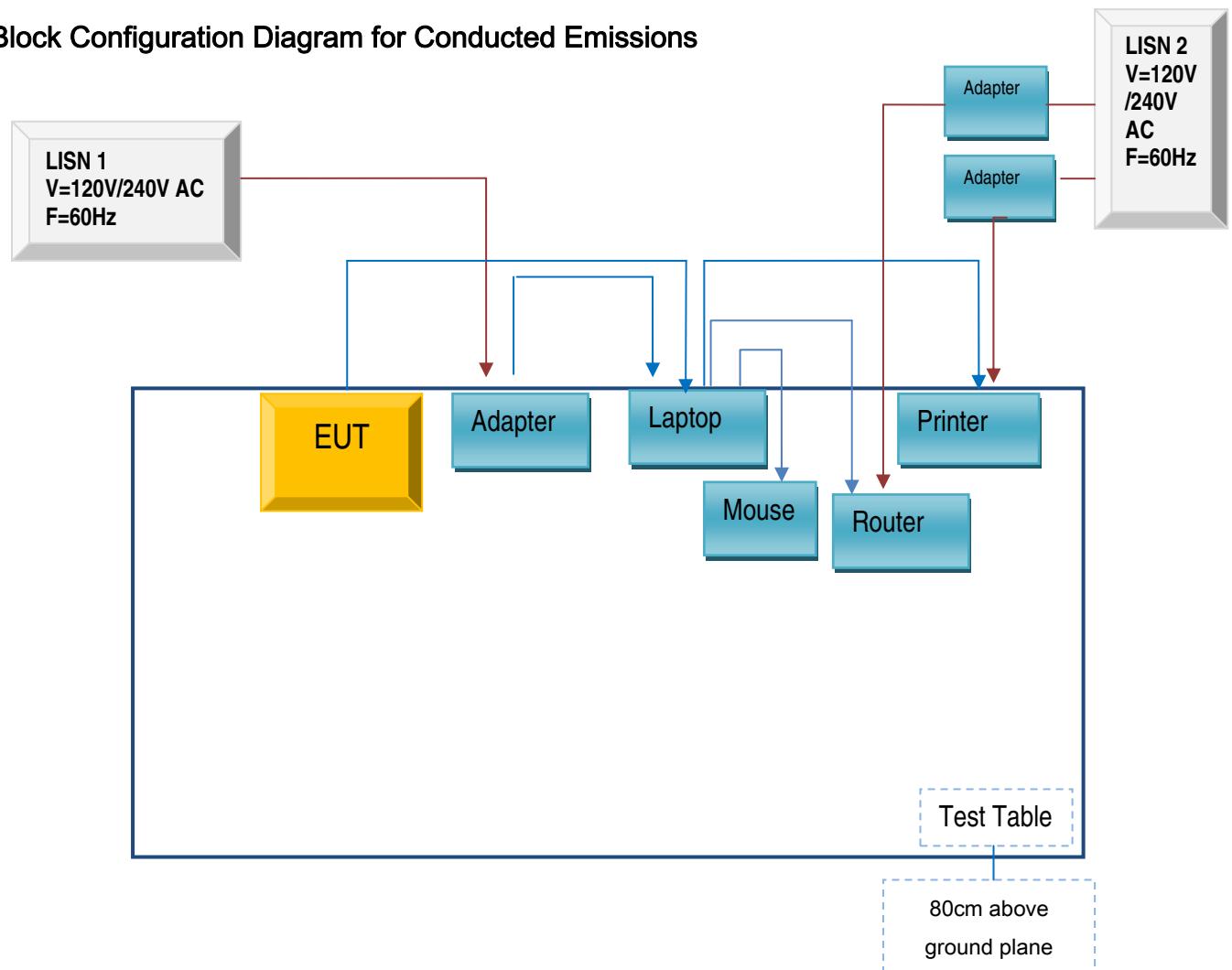
**Annex B.iii. Photograph: Test Setup Photo**



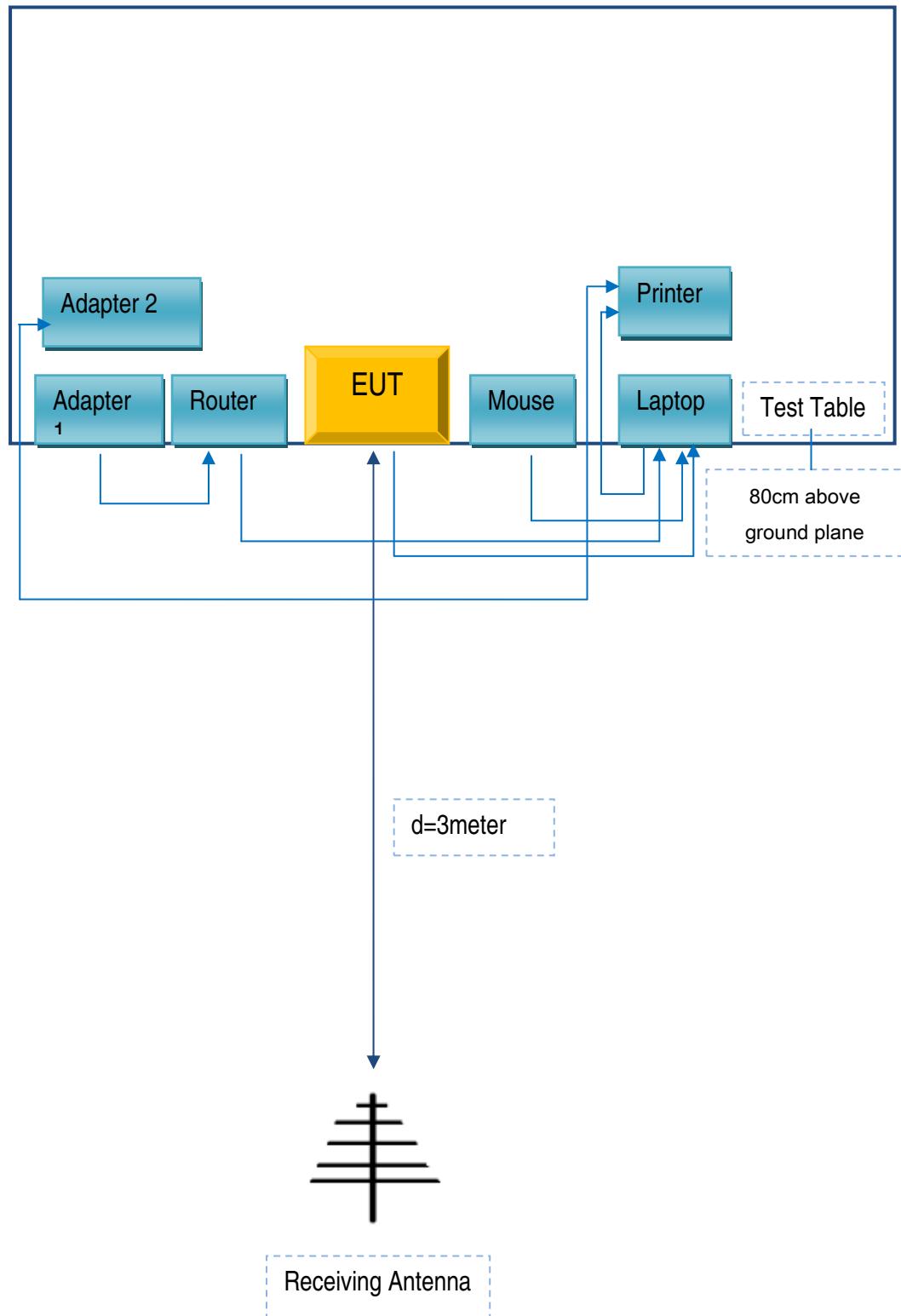
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions



## Block Configuration Diagram for Radiated Emissions



## Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

### Supporting Equipment:

| Manufacturer | Equipment Description | Model           | Serial No     |
|--------------|-----------------------|-----------------|---------------|
| Lenovo       | Laptop                | E40             | LR-1EHRX      |
| GOLDWEB      | Router                | R102            | 1202032094    |
| AOC          | Adapter               | LFS0501500D-A8S | A8S           |
| Lenovo       | AC Adapter            | 42T4416         | 21D9JU        |
| HP           | Printer               | VCVRA-1003      | CN36M19JWX    |
| DELL         | Mouse                 | E100            | 912NMTUT41481 |
| BULL         | Socket                | GN-403          | GN201203      |

### Supporting Cable:

| Cable type          | Shield Type  | Ferrite Core | Length | Serial No   |
|---------------------|--------------|--------------|--------|-------------|
| USB Cable           | Un-shielding | No           | 2m     | JX120051274 |
| USB Cable           | Un-shielding | No           | 2m     | JX110725002 |
| RJ45 Cable          | Un-shielding | No           | 2m     | KX156327541 |
| Router Power cable  | Un-shielding | No           | 2m     | 13274630Z   |
| Printer Power cable | Un-shielding | No           | 2m     | 127581031   |
| Power Cable         | Un-shielding | No           | 0.8m   | GT211032    |

|             |                |
|-------------|----------------|
| Test Report | 16070822-FCC-E |
| Page        | 29 of 30       |

## Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment

## Annex E. DECLARATION OF SIMILARITY

AOC

To: SIEMIC,775 Montague Expressway, Milpitas, CA 95035, USA

## Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list 9 model numbers on the FCC certificates and reports, as following:

Model No.: A725, A721, A722, A723, A724, A726, A727, A728, A729

We declare that, all the model PCB, Antenna and Appearance shape, accessories are the same. The difference of these is listed as below:

| Main Model No | Serial Model No                                | Differenc            |
|---------------|--|----------------------|
| A725          | A721, A722, A723, A724, A726, A727, A728, A729 | Different model name |

Thank you!

Signature:



Printed name/title: Carol Sung

Address: 14F-5, NO.258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan