# EMC TEST REPORT

**Report No.: 15020210-FCC-E1**
**Supersede Report No.: N/A**

| | |
|---|---|
| **Applicant** | Beijing InHand Networks Technology Co., Ltd. |
| **Product Name** | Embedded Computer |
| **Model No.** | InBOX300 |
| **Serial Model No.** | InBOX310、InBOX320、InBOX330、InBOX300S、InBOX310S、InBOX320S、InBOX330S |
| **Test Standard** | FCC Part 15 Subpart B Class B:2016 ANSI C63.4: 2014 |
| **Test Date** | December 22,2015 to January 04, 2016 |
| **Issue Date** | January 22, 2016 |
| **Test Result** | ☑ **Pass** ☐ **Fail** |
| **Equipment complied with the specification** | ☑ |
| **Equipment did not comply with the specification** | ☐ |

| | | |
|---|---|---|
| Winnie Zhang | David Huang | |
| **Winnie Zhang**<br>**Test Engineer** | **David Huang**<br>**Checked By** | |

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**Test result presented in this test report is applicable to the tested sample only**

**Issued by:**
**SIEMIC (SHENZHEN-CHINA) LABORATORIES**
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# 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 |

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# 1. Report Revision History

| Report No. | Report Version | Description | Issue Date |
|---|---|---|---|
| 15020210-FCC-E1 | NONE | Original | January 22, 2016 |
| | | | |
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| | | | |
| | | | |
| | | | |

# 2. Customer information

| | |
|---|---|
| Applicant Name | Beijing InHand Networks Technology Co., Ltd. |
| Applicant Add | 101,West Wing,11th Floor,No.101,Lize central Park Wangjing,Chaoyang District,Beijing,100102,China |
| Manufacturer | Beijing InHand Networks Technology Co., Ltd. |
| Manufacturer Add | 101,West Wing,11th Floor,No.101,Lize central Park Wangjing,Chaoyang District,Beijing,100102,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 518108 |
| FCC Test Site No. | 535293 |
| IC Test Site No. | 4842E-1 |
| Test Software | EZ_EMC |

# 4. Equipment under Test (EUT) Information

| | |
|---|---|
| Description of EUT: | Embedded Computer |
| Main Model: | InBOX300 |
| Serial Model: | InBOX310、InBOX320、InBOX330、InBOX300S、InBOX310S、InBOX320S、InBOX330S |
| Date EUT received: | July 13,2015 |
| Test Date(s): | December 22,2015 to January 04, 2016 |
| Antenna Gain: | GSM850/PCS1900:1 dBi<br>UMTS-FDD Band V /UMTS-FDD Band II :2.5 dBi<br>WIFI:802.11b/g/n(20M/40M): 2dBi |
| Type of Modulation: | GSM : GMSK<br>UMTS-FDD: QPSK<br>WIFI:802.11b/g/n(20M/40M): DSSS, OFDM |
| RF Operating Frequency Band(s): | GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz<br>PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz<br>UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz<br>UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz; RX: 1932.4 ~ 1987.6 MHz<br>WIFI:802.11b/g/n(20M): 2412-2462 MHz (TX/RX)<br>WIFI:802.11n(40M): 2422-2452 MHz (TX/RX) |
| Number of Channels: | GSM 850: 124CH、PCS1900: 299CH<br>UMTS-FDD Band Ⅴ: 102CH<br>UMTS-FDD Band II : 277CH<br>WIFI :802.11b/g/n(20M): 11CH<br>WIFI:802.11n(40M):7CH |
| Port: | Power Port、USB Port*4、Micro SD Port、ttyO6/7 Port , HDMI Port、SIM Port、Speaker Port、MIC Port、ttyO3*2、ttyO5*2、LAN Port |
| Input Power: | DC 9-24V |
| Trade Name : | Inhand |
| FCC ID: | 2AANYBOX |

Note: We use the main model to test and the main model configuration is the most complete
Note: the difference between these models please refer to **Annex E. DECLARATION OF SIMILARITY.**

## 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**

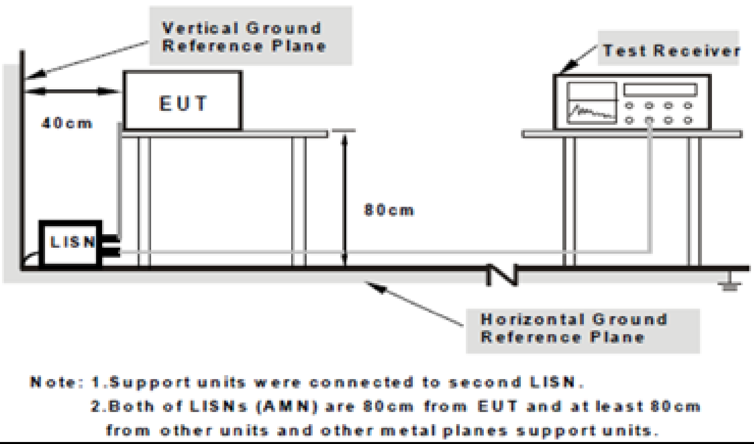
| Emissions | | |
| --- | --- | --- |
| **Test Item** | **Description** | **Uncertainty** |
| Band Edge and Radiated Spurious Emissions | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +5.6dB/-4.5dB |

# 6. Measurements, Examination And Derived Results

## 6.1 AC Power Line Conducted Emissions

| | |
| --- | --- |
| Temperature | 27.9°C |
| Relative Humidity | 61% |
| Atmospheric Pressure | 1019mbar |
| Test date : | December 22, 2015 |
| Tested By : | Winnie Zhang |

**Requirement(s):**

<table>
<tr><th>Spec</th><th>Item</th><th>Requirement</th><th>Applicable</th></tr>
<tr><td>47CFR§15.107</td><td>a)</td><td>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.<br>
<table>
<tr><th rowspan="2">Frequency ranges (MHz)</th><th colspan="2">Limit (dBμV)</th></tr>
<tr><th>QP</th><th>Average</th></tr>
<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>
</table></td><td>☑</td></tr>
<tr><td>Test Setup</td><td colspan="3"></td></tr>
<tr><td>Procedure</td><td colspan="3">- 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, as shown in Annex B.<br>- The power supply for the EUT was fed through a 50 [mu]H/50 EUT LISN, connected to filtered mains.<br>- The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.<br>- All other supporting equipment were powered separately from another main supply.</td></tr>
<tr><td>Remark</td><td colspan="3"></td></tr>
<tr><td>Result</td><td colspan="3">☑ Pass ☐ Fail</td></tr>
</table>

**Test Data** ☑ Yes ☐ N/A

**Test Plot** ☑ Yes (See below) ☐ N/A

**Data sample**

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Comment |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | (MHz) | (dBuV) | QP | (dB} | (dBuV) | (dBuV) | (dB) | |

P/L=Phase Line or Neutral

Frequency (MHz) = Emission frequency in MHz

Reading (dBµV) = Receiver Reading Value

Detector=Quasi Peak Detector or Average Detector

Corrected (dB) = cable loss+ Insertion loss of LISN+ Insertion loss of transient limiter (The transient limiter included 10dB attenuation)

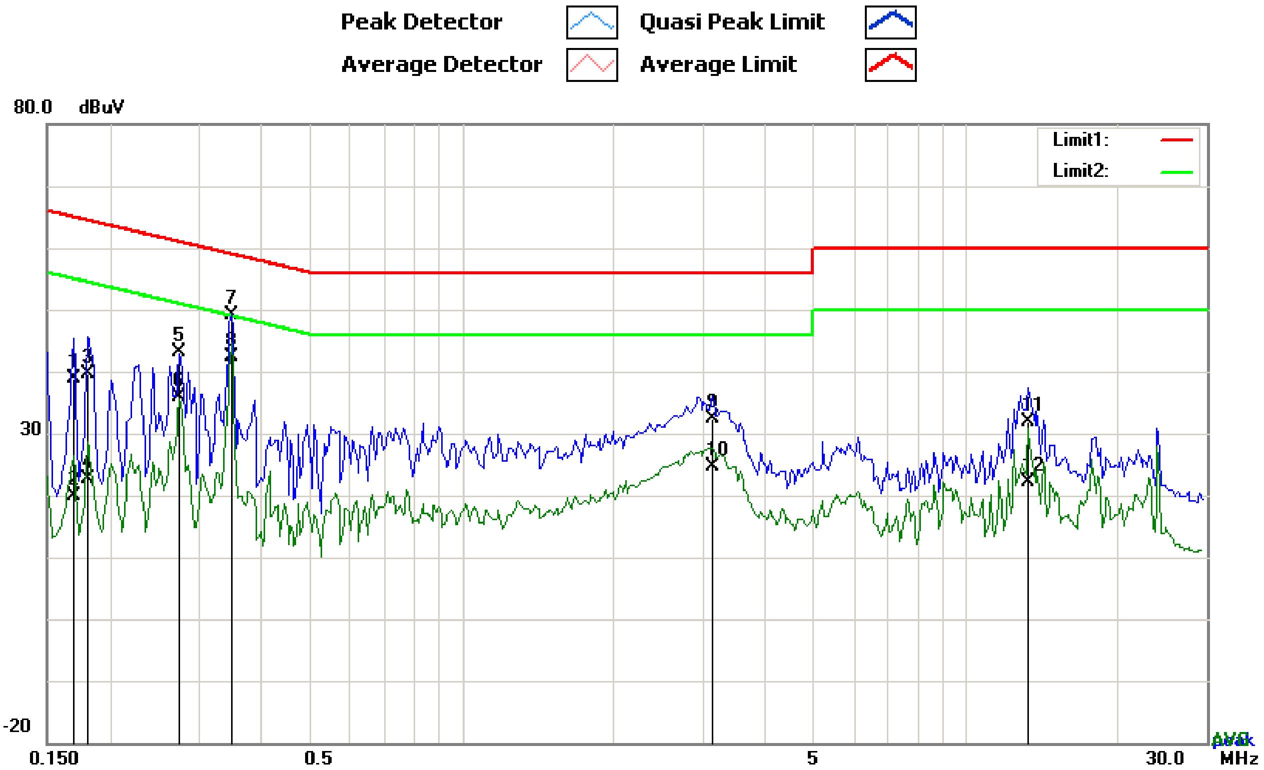
Result (dBµV) = Reading Value + Corrected Value

Limit (dBµV) = Limit stated in standard

**Calculation Formula:**

Margin (dB) = Result (dBµV) – limit (dBµV)

| Test Mode: | Transmitting Mode |
|---|---|

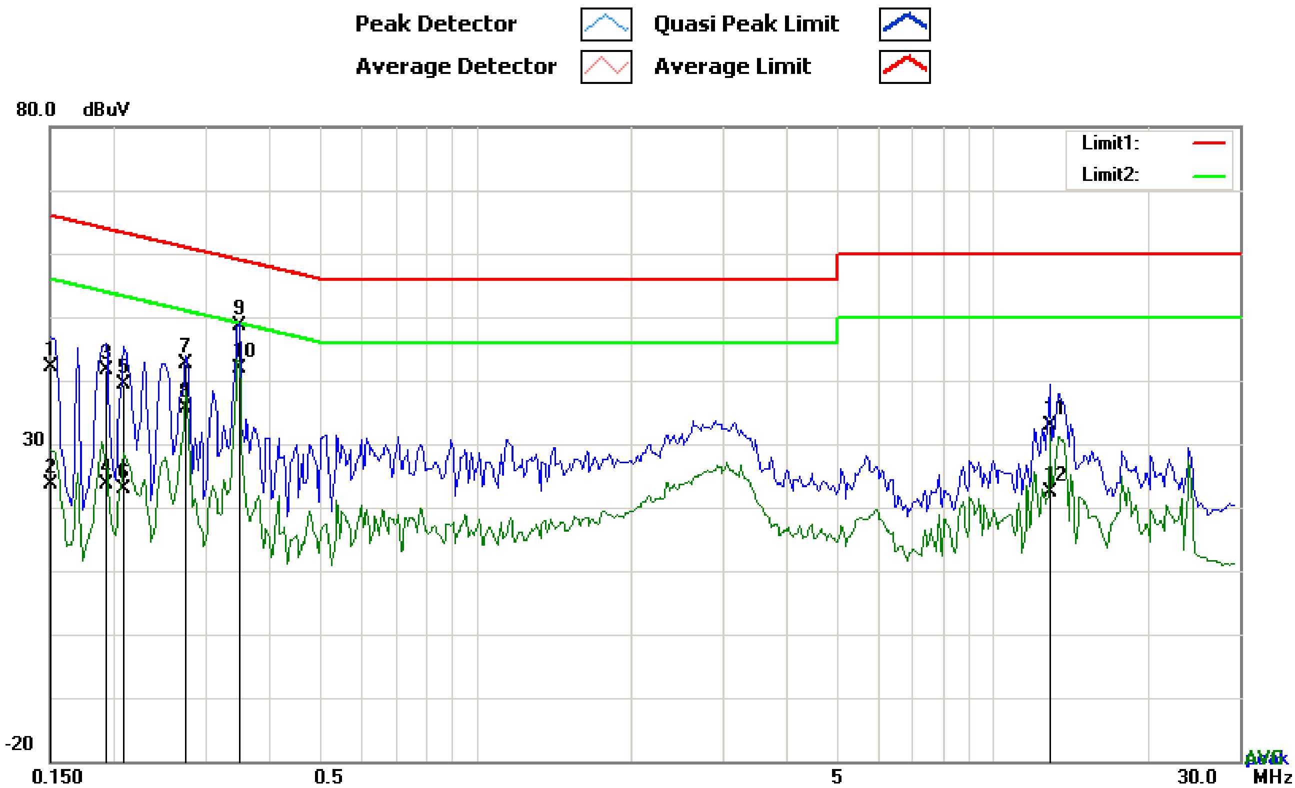



*Test Data*

**Phase Line Plot at 240Vac, 50Hz**

| No. | P/L | Frequency (MHz) | Reading (dBuV) | Detector | Corrected (dB} | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|---|---|---|---|---|---|---|---|---|---|
| 1 | L1 | 0.1695 | 28.82 | QP | 10.03 | 38.85 | 64.98 | -26.13 | |
| 2 | L1 | 0.1695 | 9.93 | AVG | 10.03 | 19.96 | 54.98 | -35.02 | |
| 3 | L1 | 0.1812 | 29.54 | QP | 10.03 | 39.57 | 64.43 | -24.86 | |
| 4 | L1 | 0.1812 | 12.60 | AVG | 10.03 | 22.63 | 54.43 | -31.80 | |
| 5 | L1 | 0.2748 | 33.06 | QP | 10.03 | 43.09 | 60.97 | -17.88 | |
| 6 | L1 | 0.2748 | 25.87 | AVG | 10.03 | 35.90 | 50.97 | -15.07 | |
| 7 | L1 | 0.3489 | 39.11 | QP | 10.03 | 49.14 | 58.99 | -9.85 | |
| 8 | L1 | 0.3489 | 32.28 | AVG | 10.03 | 42.31 | 48.99 | -6.68 | |
| 9 | L1 | 3.1404 | 22.32 | QP | 10.06 | 32.38 | 56.00 | -23.62 | |
| 10 | L1 | 3.1404 | 14.46 | AVG | 10.06 | 24.52 | 46.00 | -21.48 | |
| 11 | L1 | 13.3272 | 21.59 | QP | 10.20 | 31.79 | 60.00 | -28.21 | |
| 12 | L1 | 13.3272 | 12.04 | AVG | 10.20 | 22.24 | 50.00 | -27.76 | |

| Test Mode: | Transmitting Mode |
|---|---|

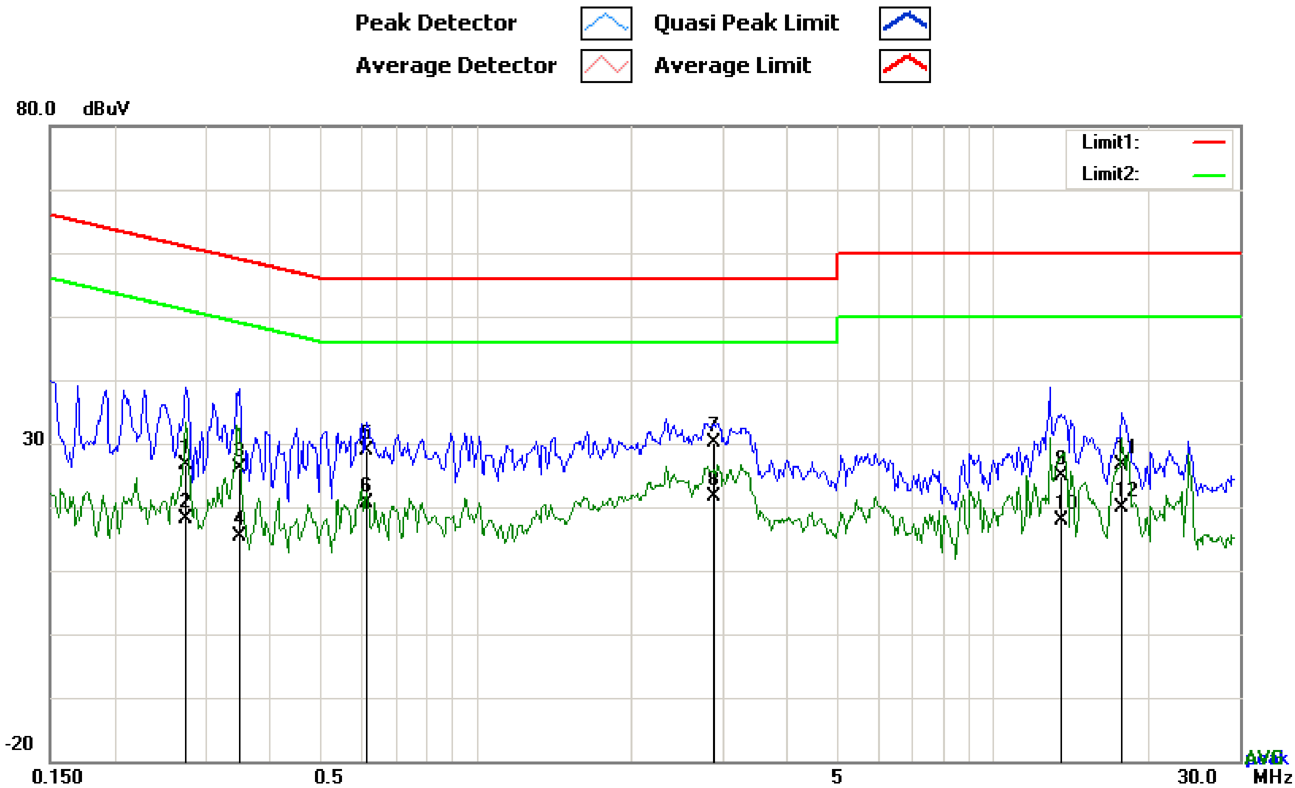



## Test Data

### Phase Neutral Plot at 240Vac, 50Hz

| No. | P/L | Frequency (MHz) | Reading (dBuV) | Detector | Corrected (dB} | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|---|---|---|---|---|---|---|---|---|---|
| 1 | N | 0.1500 | 32.06 | QP | 10.02 | 42.08 | 66.00 | -23.92 | |
| 2 | N | 0.1500 | 13.64 | AVG | 10.02 | 23.66 | 56.00 | -32.34 | |
| 3 | N | 0.1929 | 31.57 | QP | 10.02 | 41.59 | 63.91 | -22.32 | |
| 4 | N | 0.1929 | 13.67 | AVG | 10.02 | 23.69 | 53.91 | -30.22 | |
| 5 | N | 0.2085 | 29.35 | QP | 10.02 | 39.37 | 63.26 | -23.89 | |
| 6 | N | 0.2085 | 12.77 | AVG | 10.02 | 22.79 | 53.26 | -30.47 | |
| 7 | N | 0.2748 | 32.73 | QP | 10.02 | 42.75 | 60.97 | -18.22 | |
| 8 | N | 0.2748 | 25.51 | AVG | 10.02 | 35.53 | 50.97 | -15.44 | |
| 9 | N | 0.3489 | 38.68 | QP | 10.02 | 48.70 | 58.99 | -10.29 | |
| 10 | N | 0.3489 | 31.91 | AVG | 10.02 | 41.93 | 48.99 | -7.06 | |
| 11 | N | 12.8943 | 22.80 | QP | 10.17 | 32.97 | 60.00 | -27.03 | |
| 12 | N | 12.8943 | 12.18 | AVG | 10.17 | 22.35 | 50.00 | -27.65 | |

| Test Mode: | Transmitting Mode |
|---|---|




***Test Data***

**Phase Line Plot at 120Vac, 50Hz**

| No. | P/L | Frequency (MHz) | Reading (dBuV) | Detector | Corrected (dB} | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|---|---|---|---|---|---|---|---|---|---|
| 1 | L | 0.2748 | 16.51 | QP | 10.02 | 26.53 | 60.97 | -34.44 | |
| 2 | L | 0.2748 | 8.08 | AVG | 10.02 | 18.10 | 50.97 | -32.87 | |
| 3 | L | 0.3489 | 16.14 | QP | 10.02 | 26.16 | 58.99 | -32.83 | |
| 4 | L | 0.3489 | 5.30 | AVG | 10.02 | 15.32 | 48.99 | -33.67 | |
| 5 | L | 0.6141 | 18.93 | QP | 10.02 | 28.95 | 56.00 | -27.05 | |
| 6 | L | 0.6141 | 10.67 | AVG | 10.02 | 20.69 | 46.00 | -25.31 | |
| 7 | L | 2.8845 | 20.18 | QP | 10.05 | 30.23 | 56.00 | -25.77 | |
| 8 | L | 2.8845 | 11.56 | AVG | 10.05 | 21.61 | 46.00 | -24.39 | |
| 9 | L | 13.5509 | 14.68 | QP | 10.18 | 24.86 | 60.00 | -35.14 | |
| 10 | L | 13.5509 | 7.60 | AVG | 10.18 | 17.78 | 50.00 | -32.22 | |
| 11 | L | 17.6952 | 16.34 | QP | 10.23 | 26.57 | 60.00 | -33.43 | |
| 12 | L | 17.6952 | 9.64 | AVG | 10.23 | 19.87 | 50.00 | -30.13 | |

| Test Mode: | Transmitting Mode |
|---|---|


## Test Data

### Phase Neutral Plot at 120Vac, 50Hz

| No. | P/L | Frequency (MHz) | Reading (dBuV) | Detector | Corrected (dB} | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|---|---|---|---|---|---|---|---|---|---|
| 1 | N | 0.2748 | 19.20 | QP | 10.02 | 29.22 | 60.97 | -31.75 | |
| 2 | N | 0.2748 | 12.46 | AVG | 10.02 | 22.48 | 50.97 | -28.49 | |
| 3 | N | 0.3489 | 18.16 | QP | 10.02 | 28.18 | 58.99 | -30.81 | |
| 4 | N | 0.3489 | 11.16 | AVG | 10.02 | 21.18 | 48.99 | -27.81 | |
| 5 | N | 2.9112 | 20.23 | QP | 10.05 | 30.28 | 56.00 | -25.72 | |
| 6 | N | 2.9112 | 13.04 | AVG | 10.05 | 23.09 | 46.00 | -22.91 | |
| 7 | N | 5.6988 | 17.30 | QP | 10.08 | 27.38 | 60.00 | -32.62 | |
| 8 | N | 5.6988 | 6.47 | AVG | 10.08 | 16.55 | 50.00 | -33.45 | |
| 9 | N | 13.4080 | 17.58 | QP | 10.18 | 27.76 | 60.00 | -32.24 | |
| 10 | N | 13.4080 | 9.05 | AVG | 10.18 | 19.23 | 50.00 | -30.77 | |
| 11 | N | 23.9781 | 13.27 | QP | 10.32 | 23.59 | 60.00 | -36.41 | |
| 12 | N | 23.9781 | 8.45 | AVG | 10.32 | 18.77 | 50.00 | -31.23 | |

## 6.2 Radiated Emissions

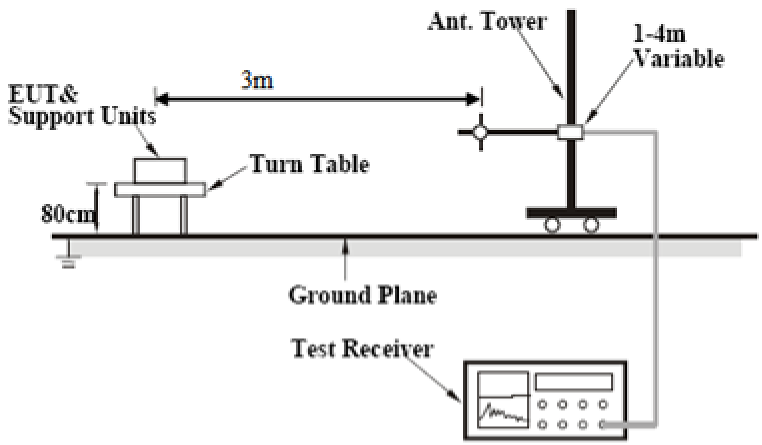
| | |
|---|---|
| Temperature | 26°C |
| Relative Humidity | 60% |
| Atmospheric Pressure | 1019mbar |
| Test date : | January 04, 2016 |
| Tested By : | Winnie Zhang |

**Requirement(s):**

| Spec | Item | Requirement | Applicable |
|---|---|---|---|
| 47CFR§15.107(d) | a) | 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 | ☑ |

| Frequency range (MHz) | Field Strength (μV/m) |
|---|---|
| 30 – 88 | 100 |
| 88 – 216 | 150 |
| 216 960 | 200 |
| Above 960 | 500 |

**Test Setup**




**Procedure**

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
   a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
   b. The EUT was then rotated to the direction that gave the maximum emission.
   c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
3. A Quasi-peak measurement was then made for that frequency point.
4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.

**Remark**

**Result**: ☑ Pass ☐ Fail

**Test Data** ☑ Yes ☐ N/A

**Test Plot** ☑ Yes (See below) ☐ N/A

**Data sample**

| No. | P/L | Frequency (MHz) | Reading (dBuV/m) | Detector | Corrected (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree ( ) | Comment |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

P/L=Vertical or Horizontal of Receiver antenna

Frequency (MHz) = Emission frequency in MHz

Reading (dBμV/m) = Receiver Reading Value

Detector= Peak Detector or Quasi Peak Detector

Corrected (dB) = Antenna factor + cable loss- antenna gain

Result (dBμV/m) = Reading Value + Corrected Value

Limit (dBμV/m) = Limit stated in standard

Height (cm) = Height of Receiver antenna

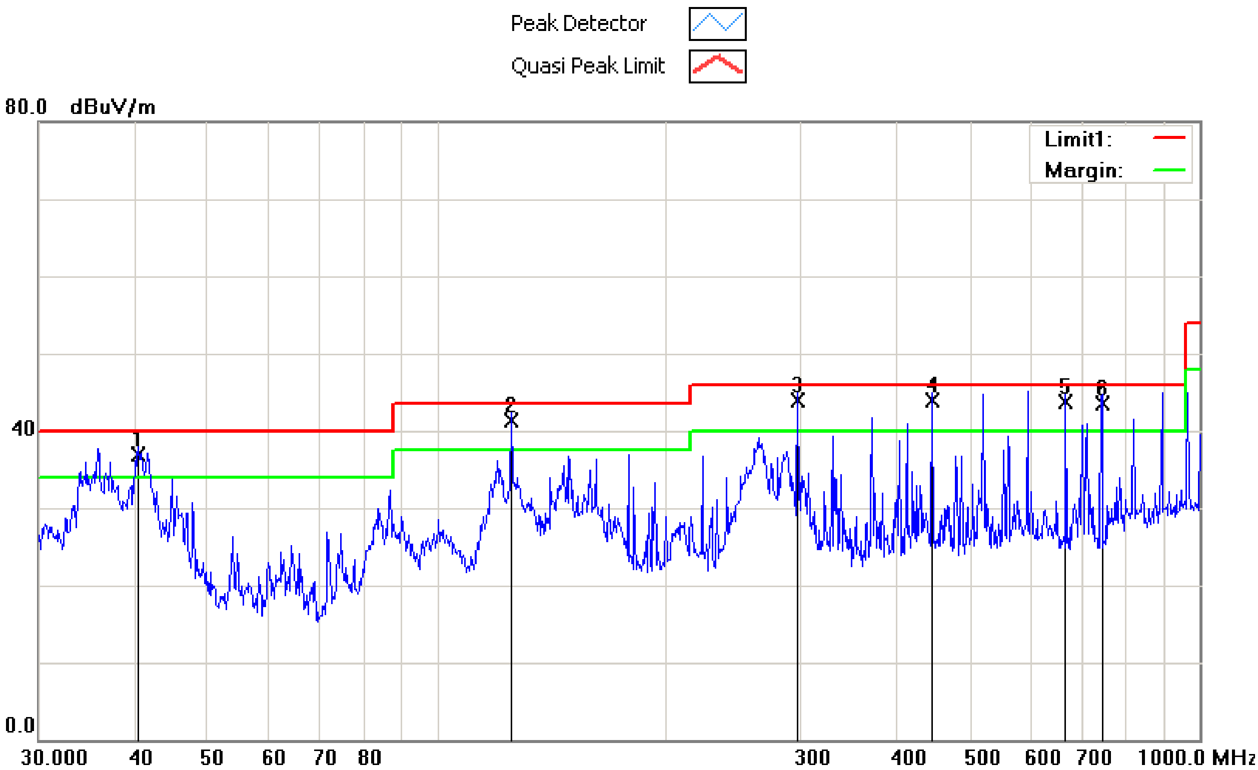
Degree = Turn table degree

**Calculation Formula:**

Margin (dB) = Result (dBμV/m) – limit (dBμV/m)

| Test Mode: | Transmitting Mode |
|---|---|

## (Below 1GHz)




### *Test Data*

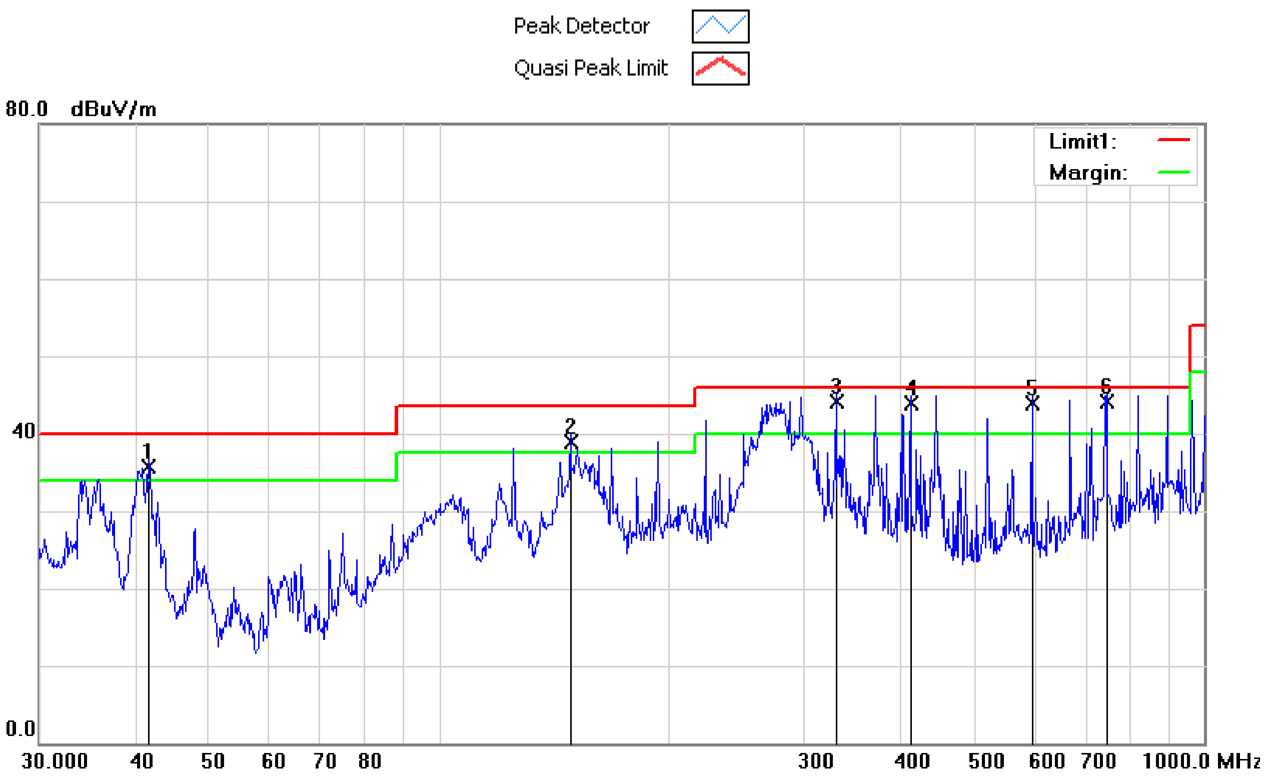
**Vertical Polarity Plot @3m**

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Height | Degree | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (MHz) | (dBuV/m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | ( ) | |
| 1 | V | 40.5591 | 44.79 | QP | -7.96 | 36.83 | 40.00 | -3.17 | 100 | 32 | |
| 2 | V | 125.0066 | 48.86 | QP | -7.62 | 41.24 | 43.50 | -2.26 | 100 | 14 | |
| 3 | V | 297.2241 | 50.83 | QP | -7.02 | 43.81 | 46.00 | -2.19 | 100 | 200 | |
| 4 | V | 446.4141 | 47.10 | QP | -3.17 | 43.93 | 46.00 | -2.07 | 100 | 35 | |
| 5 | V | 668.1423 | 42.61 | QP | 1.02 | 43.63 | 46.00 | -2.37 | 100 | 54 | |
| 6 | V | 744.8661 | 41.29 | QP | 2.31 | 43.60 | 46.00 | -2.40 | 100 | 127 | |

Note: The data above 1 GHz which below 20 dB to the limit was not recorded.

| Test Mode: | Transmitting Mode |
| --- | --- |

## (Below 1GHz)




### *Test Data*

**Horizontal Polarity Plot @3m**

| No. | P/L | Frequency (MHz) | Reading (dBuV/m) | Detector | Corrected (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree ( ) | Comment |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | H | 41.7130 | 44.53 | QP | -8.73 | 35.80 | 40.00 | -4.20 | 100 | 316 | |
| 2 | H | 148.4410 | 47.26 | QP | -8.42 | 38.84 | 43.50 | -4.66 | 100 | 119 | |
| 3 | H | 330.1949 | 50.24 | QP | -6.04 | 44.20 | 46.00 | -1.80 | 100 | 116 | |
| 4 | H | 413.2706 | 47.82 | QP | -3.97 | 43.85 | 46.00 | -2.15 | 100 | 247 | |
| 5 | H | 595.1329 | 44.01 | QP | -0.07 | 43.94 | 46.00 | -2.06 | 100 | 302 | |
| 6 | H | 744.8661 | 41.82 | QP | 2.31 | 44.13 | 46.00 | -1.87 | 100 | 207 | |

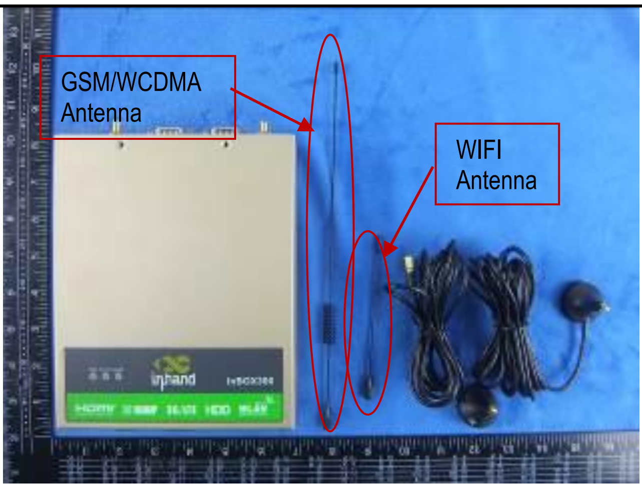
Note: The data above 1 GHz which below 20 dB to the limit was not recorded.

## Annex A. TEST INSTRUMENT

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

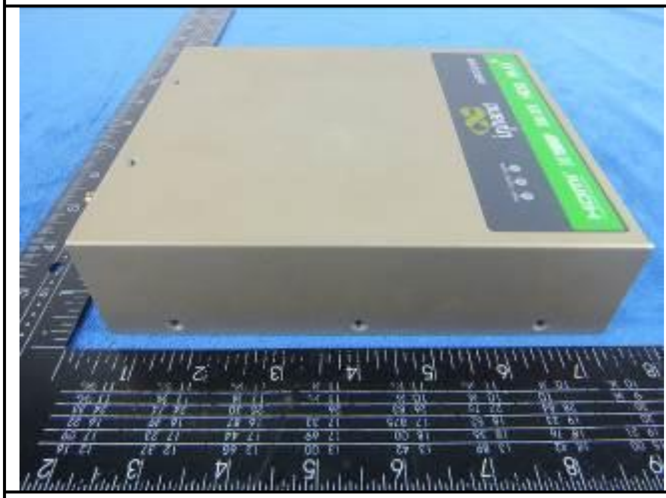
# Annex B. EUT And Test Setup Photographs

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

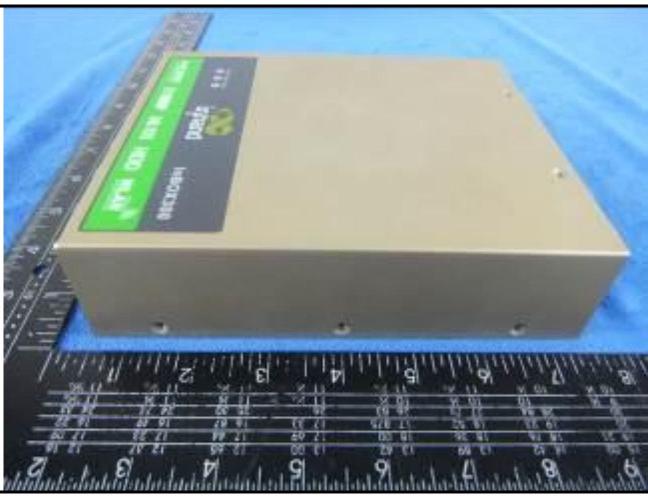



EUT – Top View

EUT – Bottom View



EUT – Left View



EUT – Right View

EUT - Front View

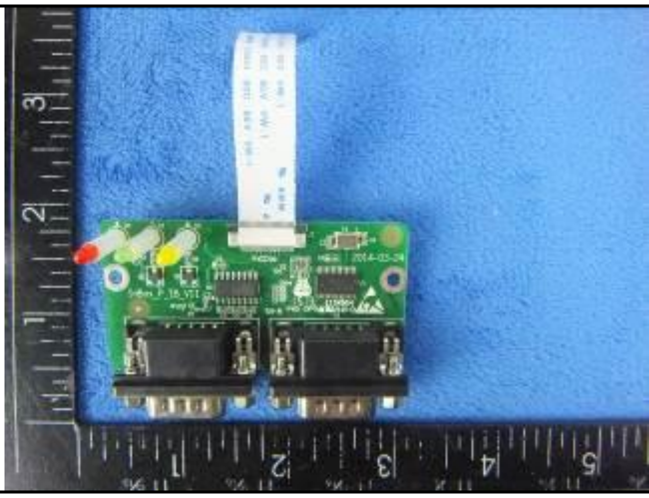
EUT - Rear View

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

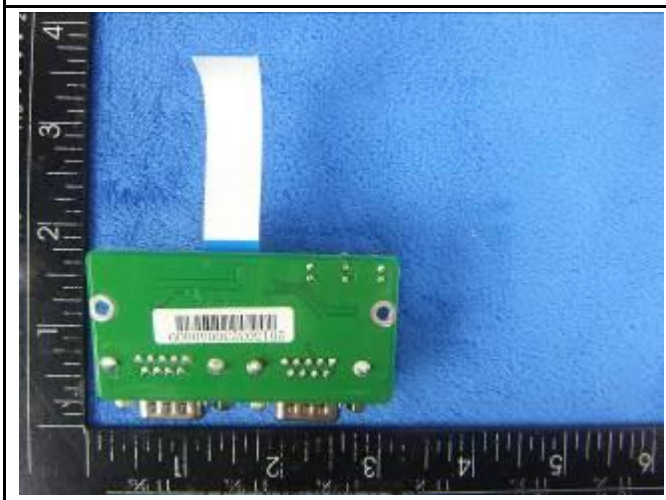
EUT – Uncover Front View 1

EUT – PCB 1 Front View

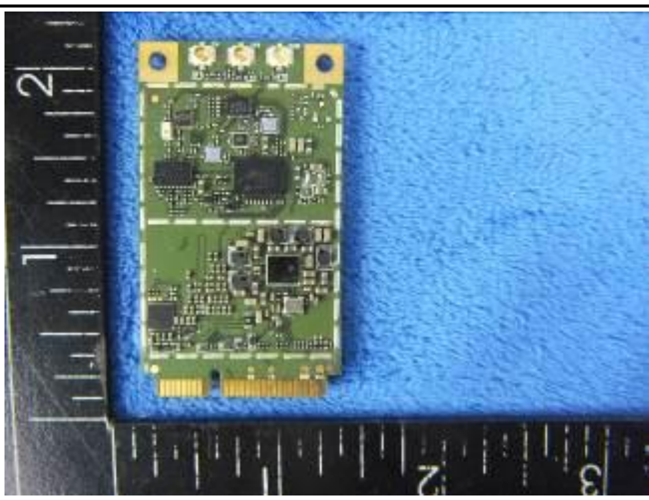
EUT – PCB 1 Rear View



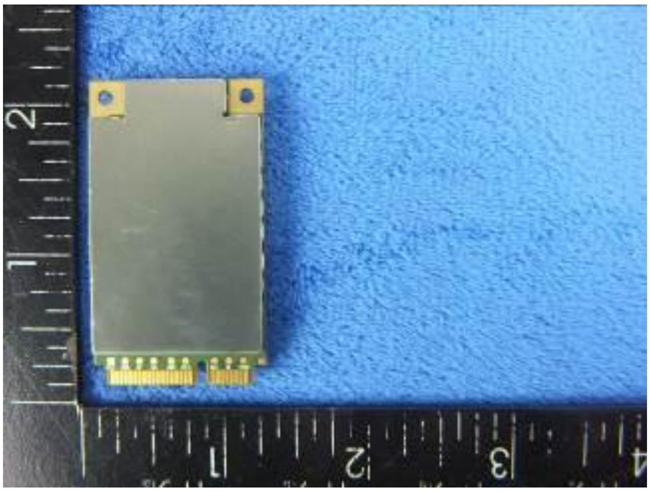
EUT – PCB 2 Front View



EUT – PCB 2 Rear View

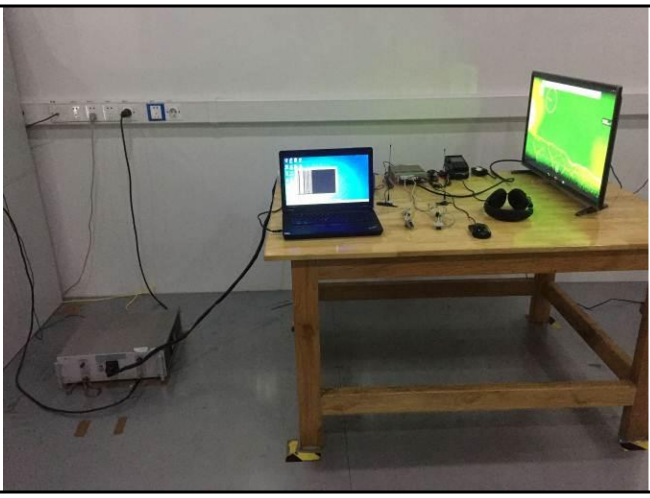


EUT – PCB 3 Front View



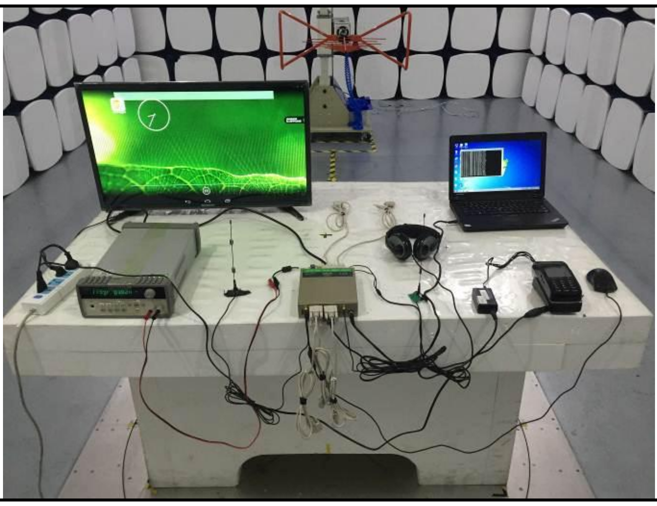
EUT – PCB 3 Rear View

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



Conducted Emissions Test Setup – Front View

Conducted Emissions Test Setup – Rear View



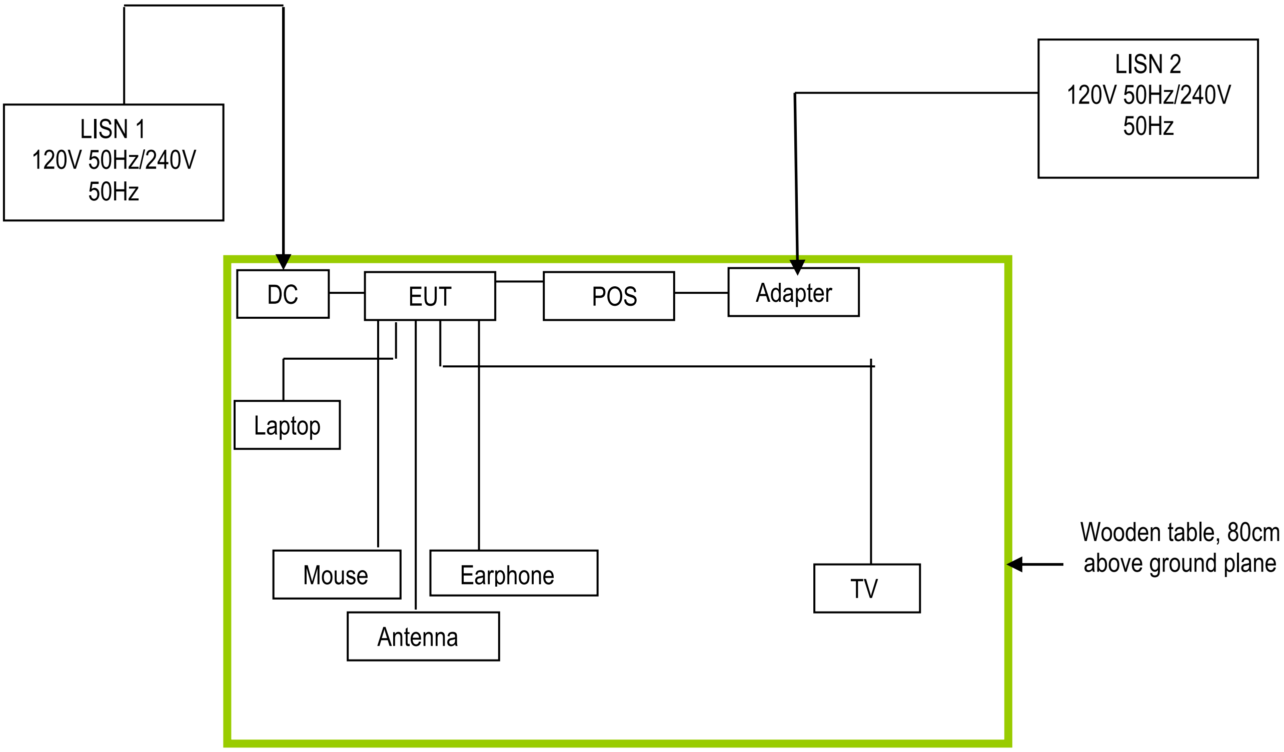
Radiated Spurious Emissions Test Setup Below 1GHz

Radiated Spurious Emissions Test Setup Above 1GHz

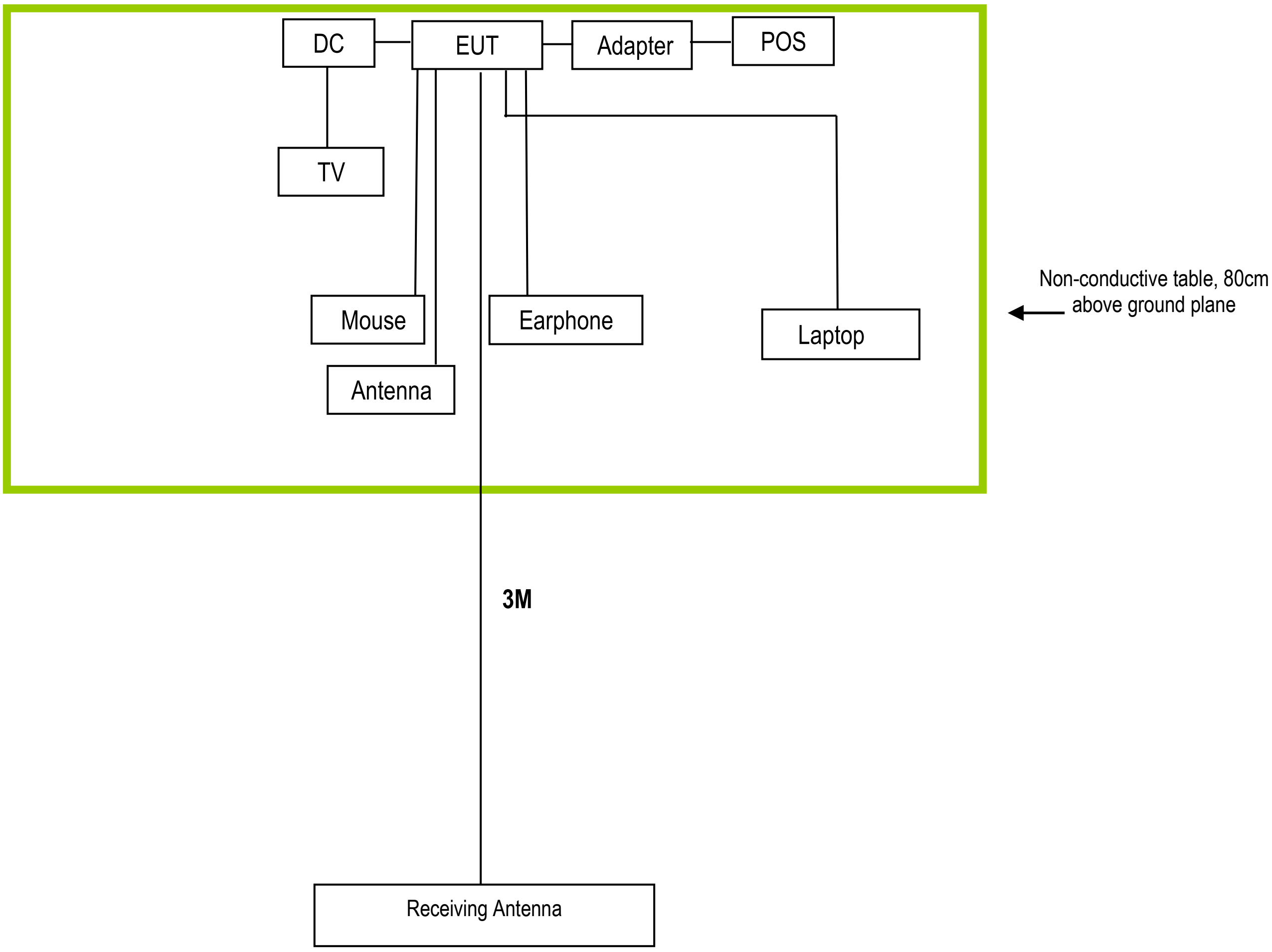
# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

## Annex C.i. 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.

| Manufacturer | Equipment Description | Model | Calibration Date | Calibration Due Date |
| --- | --- | --- | --- | --- |
| Lenovo | Lenovo Laptop | E40& 0579A52 | N/A | N/A |
| HongXun | POS | 8210 | N/A | N/A |
| Sennheiser | Earphone | MX80 | N/A | N/A |
| DELL | Mouse | E100 | N/A | N/A |
| Mi | Adapter | DX-13250 | N/A | N/A |
| BK PRECISION | DC Power Supply | 1786B | N/A | N/A |
| Skyworth | TV | 32X3 | N/A | N/A |

### Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
| --- | --- | --- | --- | --- |
| USB Cable | Un-shielding | No | 2m | JX120051274 |
| RJ45 Cable | Un-shielding | No | 2m | KX156327541 |
| RS232 cable | Un-shielding | No | 2m | 127581031 |
| Power Cable | Un-shielding | No | 2m | Y1120224 |
| Power Cable | Un-shielding | No | 2m | Y1120149 |

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

**Please see Attachment**

# Annex E. DECLARATION OF SIMILARITY

## Beijing InHand Networks Technology Co., Ltd

To: 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

Dear Sir,

For our business issue and marketing requirement, we would like to list different models numbers reports, as following:

Model No.: InBOX300 InBOX310 InBOX320 InBOX330
InBOX300S InBOX310S InBOX320S InBOX330S

The eight models are basically the same in appearance, hardware, PCB layout but they have different number of interfaces: USB, Serial port and different software functions. The software does not affect the RF parameters of the device.

Thank you!

Signature: Biao Wang

Printed name/title:Biao Wang/ EMC engineer
Address: 101,West Wing,11th Floor,No.101,Lize central Park Wangjing,Chaoyang District,Beijing,100102,China