# EMC TEST REPORT

Report No.: 16021564-FCC-E
Supersede Report No.: N/A

| | |
|---|---|
| Applicant | Shenzhen PAKITE Technology Co.,Ltd. |
| Product Name | RCA AV Sender & IR Remote Extender |
| Main Model | PAT-220 |
| Serial Model | PAT-240, PAT-260, PAT-280, PAT-330, PAT-350, PAT-360, PAT-370, PAT-380 |
| Test Standard | FCC Part 15 Subpart B:2016, ANSI C63.4:2014 |
| Test Date | January 06 to January 10, 2017 |
| Issue Date | January 11, 2017 |
| Test Result | ☒ Pass ☐ Fail |
| Equipment complied with the specification | ☒ |
| Equipment did not comply with the specification | ☐ |

| | | |
|---|---|---|
| Amos.Xia | Miro Bao | |
| Amos Xia<br>Test Engineer | Miro Bao<br>Checked By | |

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

Issued by:
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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 |
| --- | --- | --- | --- |
| 16021564-FCC-E | NONE | Original | January 11, 2017 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

# 2. Customer information

| | |
| --- | --- |
| Applicant Name | Shenzhen PAKITE Technology Co.,Ltd. |
| Applicant Add | 12 Floor, 6 Building, 2 Reservoir Avenue, Nankeng Community, Bantian Street, Longgang District, Shenzhen |
| Manufacturer | Shenzhen PAKITE Technology Co.,Ltd. |
| Manufacturer Add | 12 Floor, 6 Building, 2 Reservoir Avenue, Nankeng Community, Bantian Street, Longgang District, Shenzhen |

# 3. Test site information

| | |
| --- | --- |
| Lab performing tests | SIEMIC (Nanjing-China) Laboratories |
| Lab Address | 2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China |
| FCC Test Site No. | 986914 |
| IC Test Site No. | 4842B-1 |
| Test Software | EZ_EMC |

# 4. Equipment under Test (EUT) Information

| | |
|---|---|
| Description of EUT: | RCA AV Sender & IR Remote Extender |
| Main Model: | PAT-220 |
| Serial Model: | PAT-240, PAT-260, PAT-280, PAT-330, PAT-350, PAT-360, PAT-370, PAT-380 |
| Date EUT received: | December 16, 2016 |
| Test Date(s): | January 06 to January 10, 2017 |
| Operating Frequency : | Rx: 433.92MHz |
| Power: | Adapter:<br>Model: SJ-0510-U<br>INPUT: 100-240V~50/60Hz<br>OUTPUT: 5Vdc 1000mA |
| Antenna Gain | 2dBi |
| Type of Modulation: | ASK |
| Number of Channels: | 1 CH |
| Trade Name : | PAKITE |
| FCC ID: | 2ABU5-24GAVSENDER |

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 |
| Conducted Emissions & Radiated 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) | 1.634dB / 3.952dB |

# 6. Measurements, Examination And Derived Results

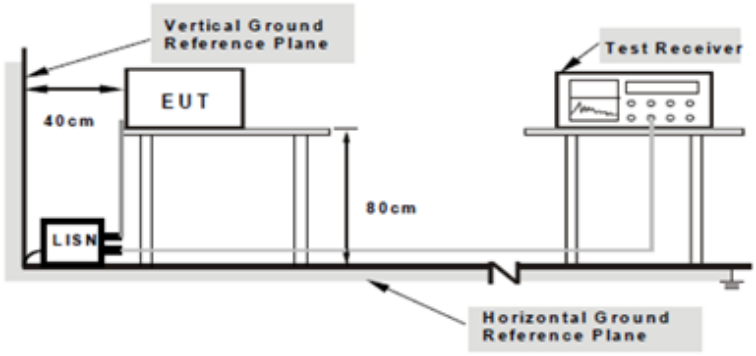
## 6.1 AC Power Line Conducted Emissions

| | |
|---|---|
| Temperature | 24°C |
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
| Test date : | January 10, 2017 |
| Tested By : | Amos Xia |

Requirement(s):

| Spec | Requirement | Applicable |
|---|---|---|
| §15.107 | 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. | ☒ |

| Frequency of emission (MHz) | Conducted limit (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 to 56* | 56 to 46* |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

| | |
|---|---|
| Test Setup |  <br>Note: 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. |
| Procedure | 1. 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.<br>2. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.<br>3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.<br>4. All other supporting equipment were powered separately from another main supply.<br>5. The EUT was switched on and allowed to warm up to its normal operating condition.<br>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.<br>7. High peaks, relative to the limit line, were then selected, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10kHz.<br>8. Steps 6-7 were repeated for the LIVE line (for AC mains) or DC line (for DC power). |
| Remark | |

| | |
|---|---|
| Result | ☒ Pass ☐ Fail |
| Test Data | ☒Yes ☐N/A |
| Test Plot | ☒Yes ☐N/A |

Data sample
Data sample

| No. | Frequency | Reading | Detector | Lisn/Isn | Ps_Lmt | Cab_L | Result | Limit | Margin |
|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBμV) | | (dB} | (dB) | (dB) | (dBμV) | (dBμV) | (dB) |

Frequency (MHz) = Emission frequency in MHz

Reading (dBμV) = Receiver Reading Value

Detector=Quasi Peak Detector or Average Detector

Lisn/ISN= Insertion loss of LISN

Ps_Lmt= Insertion loss of transient limiter (The transient limiter included 10dB attenuation)

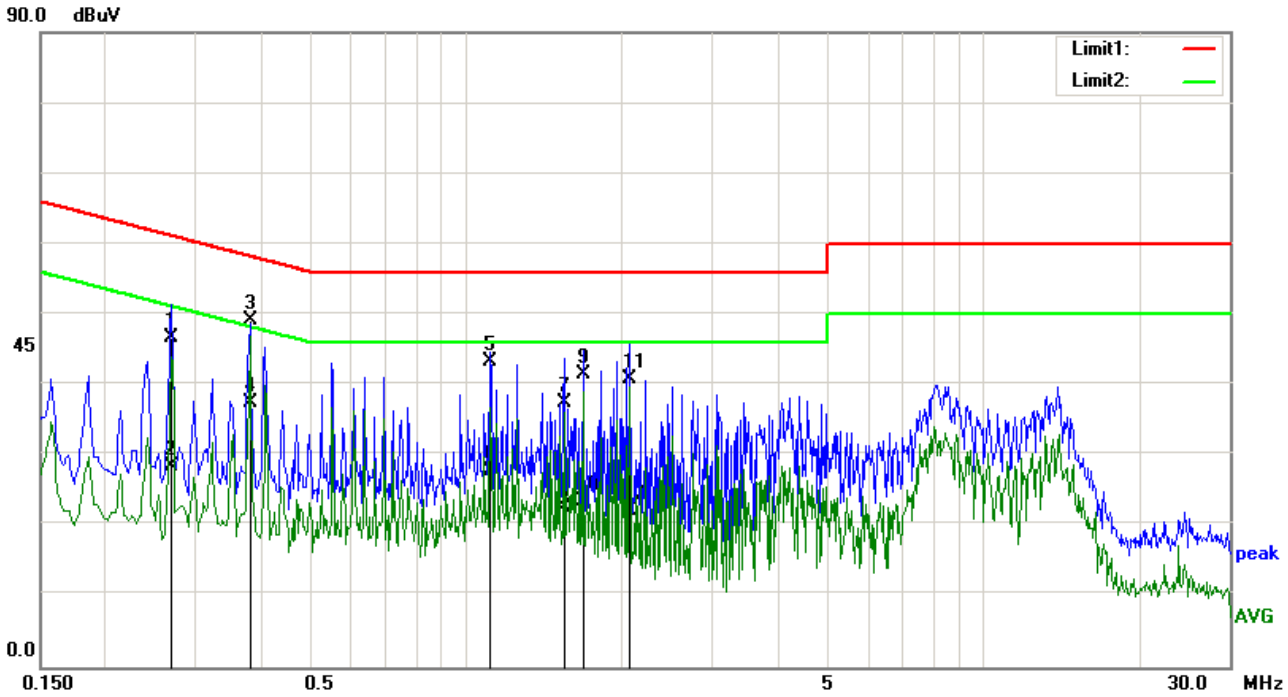
Cab_L= cable loss

Result (dBμV) = Reading Value + Corrected Value

Limit (dBμV) = Limit stated in standard

Calculation Formula:
Margin (dB) = Result (dBμV) – limit (dBμV)

| Test Mode: | Receiving Mode |
|---|---|

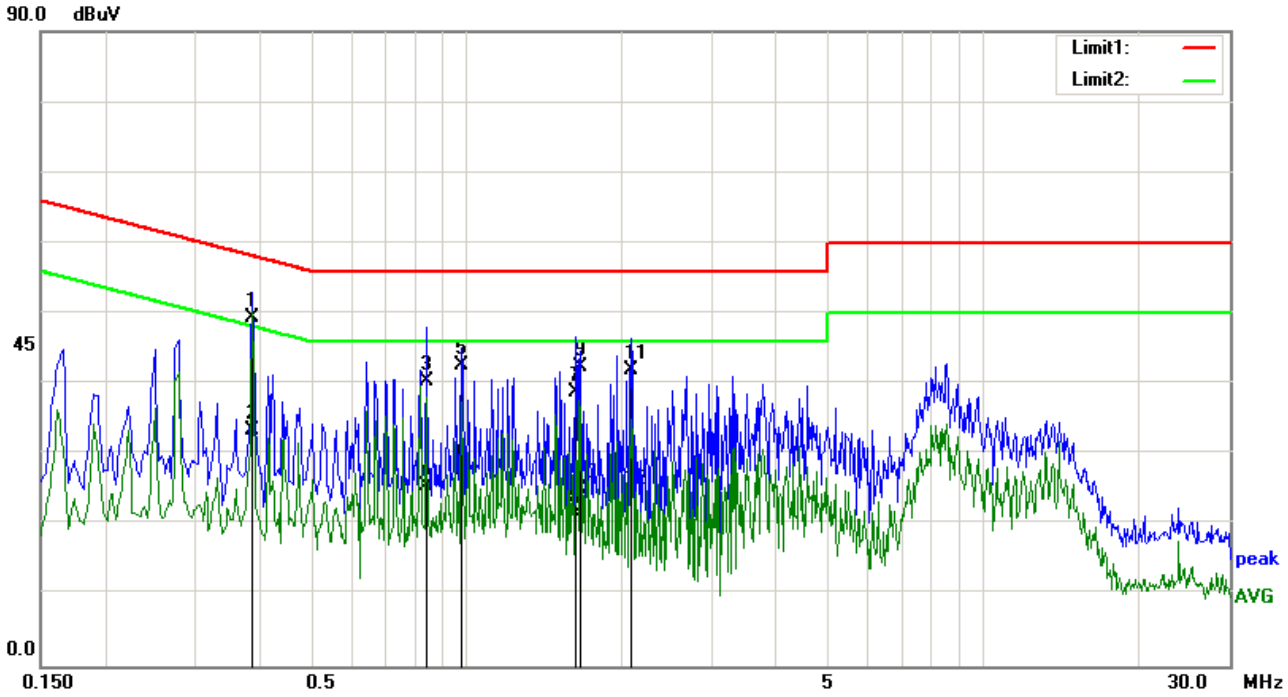



***Test Data***

Phase Line Plot at 120Vac, 60Hz

| No. | Frequency (MHz) | Reading (dBµV) | Detector | Lisn/Isn (dB} | Ps_Lmt (dB) | Cab_L (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.2700 | 36.40 | QP | 0.10 | -10.00 | 0.20 | 46.70 | 61.12 | -14.42 |
| 2 | 0.2700 | 18.10 | AVG | 0.10 | -10.00 | 0.20 | 28.40 | 51.12 | -22.72 |
| 3 | 0.3820 | 38.76 | QP | 0.11 | -10.00 | 0.21 | 49.08 | 58.24 | -9.16 |
| 4 | 0.3820 | 27.09 | AVG | 0.11 | -10.00 | 0.21 | 37.41 | 48.24 | -10.83 |
| 5 | 1.1140 | 33.05 | QP | 0.14 | -10.00 | 0.20 | 43.39 | 56.00 | -12.61 |
| 6 | 1.1140 | 17.45 | AVG | 0.14 | -10.00 | 0.20 | 27.79 | 46.00 | -18.21 |
| 7 | 1.5460 | 27.10 | QP | 0.15 | -10.00 | 0.20 | 37.45 | 56.00 | -18.55 |
| 8 | 1.5460 | 12.31 | AVG | 0.15 | -10.00 | 0.20 | 22.66 | 46.00 | -23.34 |
| 9 | 1.6820 | 31.06 | QP | 0.15 | -10.00 | 0.21 | 41.42 | 56.00 | -14.58 |
| 10 | 1.6820 | 13.19 | AVG | 0.15 | -10.00 | 0.21 | 23.55 | 46.00 | -22.45 |
| 11 | 2.0660 | 30.39 | QP | 0.16 | -10.00 | 0.19 | 40.74 | 56.00 | -15.26 |
| 12 | 2.0660 | 11.76 | AVG | 0.16 | -10.00 | 0.19 | 22.11 | 46.00 | -23.89 |

| Test Mode: | Receiving Mode |
|---|---|

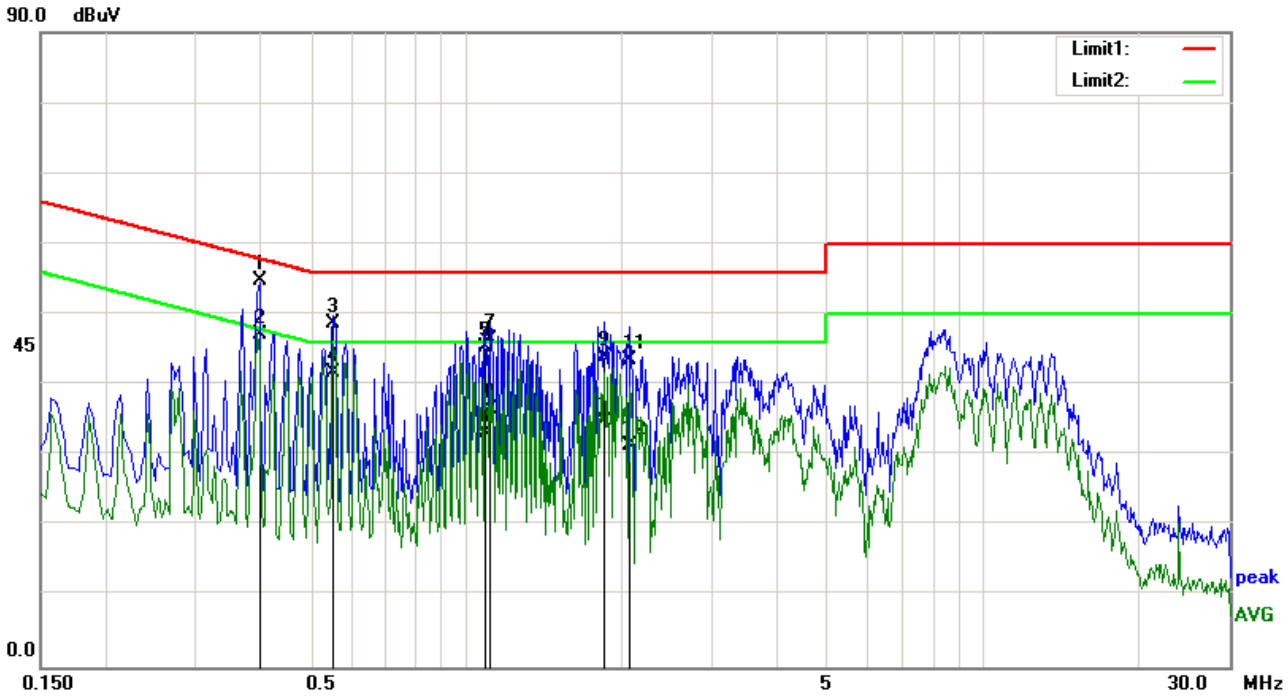



***Test Data***

Phase Neutral Plot at 120Vac, 60Hz

| No. | Frequency (MHz) | Reading (dBμV) | Detector | Lisn/lsn (dB} | Ps_Lmt (dB) | Cab_L (dB) | Result (dBμV) | Limit (dBμV) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.3860 | 39.12 | QP | 0.11 | -10.00 | 0.21 | 49.44 | 58.15 | -8.71 |
| 2 | 0.3860 | 23.07 | AVG | 0.11 | -10.00 | 0.21 | 33.39 | 48.15 | -14.76 |
| 3 | 0.8380 | 30.03 | QP | 0.12 | -10.00 | 0.20 | 40.35 | 56.00 | -15.65 |
| 4 | 0.8380 | 15.20 | AVG | 0.12 | -10.00 | 0.20 | 25.52 | 46.00 | -20.48 |
| 5 | 0.9820 | 32.22 | QP | 0.13 | -10.00 | 0.19 | 42.54 | 56.00 | -13.46 |
| 6 | 0.9820 | 17.38 | AVG | 0.13 | -10.00 | 0.19 | 27.70 | 46.00 | -18.30 |
| 7 | 1.6340 | 28.52 | QP | 0.16 | -10.00 | 0.21 | 38.89 | 56.00 | -17.11 |
| 8 | 1.6340 | 11.17 | AVG | 0.16 | -10.00 | 0.21 | 21.54 | 46.00 | -24.46 |
| 9 | 1.6660 | 32.07 | QP | 0.16 | -10.00 | 0.21 | 42.44 | 56.00 | -13.56 |
| 10 | 1.6660 | 14.80 | AVG | 0.16 | -10.00 | 0.21 | 25.17 | 46.00 | -20.83 |
| 11 | 2.0980 | 31.57 | QP | 0.17 | -10.00 | 0.20 | 41.94 | 56.00 | -14.06 |
| 12 | 2.0980 | 13.91 | AVG | 0.17 | -10.00 | 0.20 | 24.28 | 46.00 | -21.72 |

| Test Mode: | Receiving Mode |
|---|---|

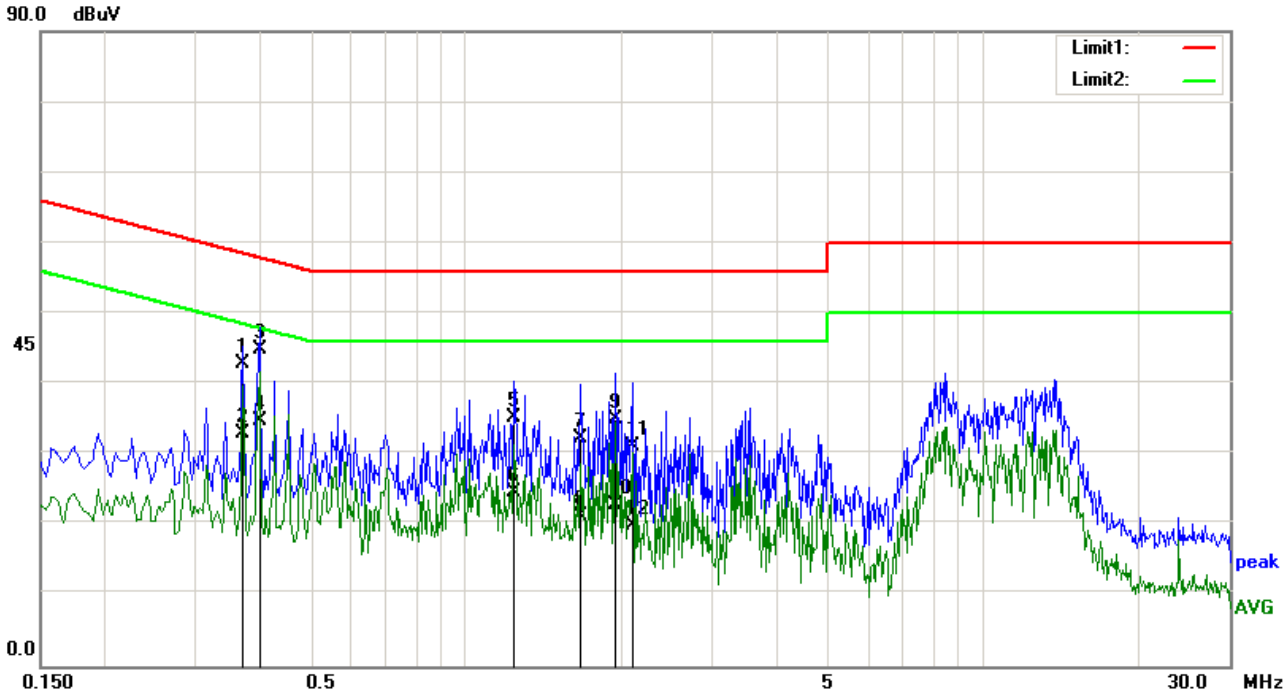



***Test Data***

Phase Line Plot at 240Vac, 50Hz

| No. | Frequency (MHz) | Reading (dBμV) | Detector | Lisn/Isn (dB} | Ps_Lmt (dB) | Cab_L (dB) | Result (dBμV) | Limit (dBμV) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.3980 | 44.52 | QP | 0.11 | -10.00 | 0.21 | 54.84 | 57.90 | -3.06 |
| 2 | 0.3980 | 36.79 | AVG | 0.11 | -10.00 | 0.21 | 47.11 | 47.90 | -0.79 |
| 3 | 0.5540 | 38.31 | QP | 0.12 | -10.00 | 0.21 | 48.64 | 56.00 | -7.36 |
| 4 | 0.5540 | 31.36 | AVG | 0.12 | -10.00 | 0.21 | 41.69 | 46.00 | -4.31 |
| 5 | 1.0900 | 34.92 | QP | 0.14 | -10.00 | 0.20 | 45.26 | 56.00 | -10.74 |
| 6 | 1.0900 | 22.82 | AVG | 0.14 | -10.00 | 0.20 | 33.16 | 46.00 | -12.84 |
| 7 | 1.1140 | 36.08 | QP | 0.14 | -10.00 | 0.20 | 46.42 | 56.00 | -9.58 |
| 8 | 1.1140 | 26.18 | AVG | 0.14 | -10.00 | 0.20 | 36.52 | 46.00 | -9.48 |
| 9 | 1.8500 | 33.69 | QP | 0.16 | -10.00 | 0.20 | 44.05 | 56.00 | -11.95 |
| 10 | 1.8500 | 24.47 | AVG | 0.16 | -10.00 | 0.20 | 34.83 | 46.00 | -11.17 |
| 11 | 2.0700 | 33.24 | QP | 0.16 | -10.00 | 0.19 | 43.59 | 56.00 | -12.41 |
| 12 | 2.0700 | 21.06 | AVG | 0.16 | -10.00 | 0.19 | 31.41 | 46.00 | -14.59 |

| Test Mode: | Receiving Mode |
|---|---|




***Test Data***

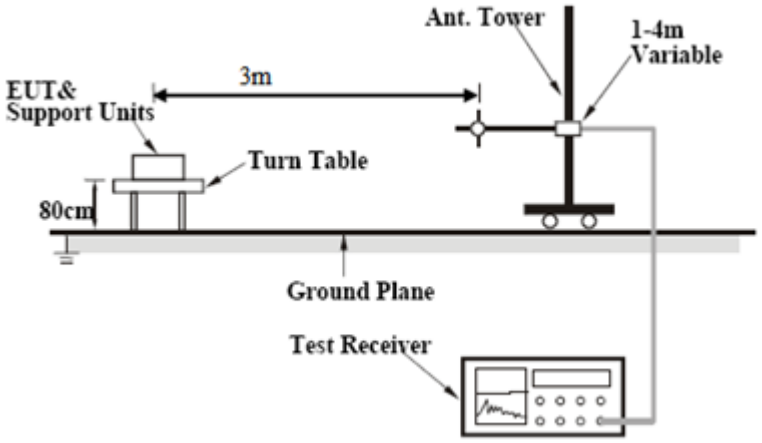
Phase Neutral Plot at 240Vac, 50Hz

| No. | Frequency (MHz) | Reading (dBμV) | Detector | Lisn/lsn (dB} | Ps_Lmt (dB) | Cab_L (dB) | Result (dBμV) | Limit (dBμV) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.3700 | 32.54 | QP | 0.11 | -10.00 | 0.20 | 42.85 | 58.50 | -15.65 |
| 2 | 0.3700 | 22.67 | AVG | 0.11 | -10.00 | 0.20 | 32.98 | 48.50 | -15.52 |
| 3 | 0.3980 | 34.48 | QP | 0.11 | -10.00 | 0.21 | 44.80 | 57.90 | -13.10 |
| 4 | 0.3980 | 24.44 | AVG | 0.11 | -10.00 | 0.21 | 34.76 | 47.90 | -13.14 |
| 5 | 1.2420 | 24.88 | QP | 0.14 | -10.00 | 0.21 | 35.23 | 56.00 | -20.77 |
| 6 | 1.2420 | 14.35 | AVG | 0.14 | -10.00 | 0.21 | 24.70 | 46.00 | -21.30 |
| 7 | 1.6700 | 21.85 | QP | 0.16 | -10.00 | 0.21 | 32.22 | 56.00 | -23.78 |
| 8 | 1.6700 | 10.82 | AVG | 0.16 | -10.00 | 0.21 | 21.19 | 46.00 | -24.81 |
| 9 | 1.9460 | 24.72 | QP | 0.17 | -10.00 | 0.19 | 35.08 | 56.00 | -20.92 |
| 10 | 1.9460 | 12.41 | AVG | 0.17 | -10.00 | 0.19 | 22.77 | 46.00 | -23.23 |
| 11 | 2.1100 | 20.88 | QP | 0.17 | -10.00 | 0.20 | 31.25 | 56.00 | -24.75 |
| 12 | 2.1100 | 9.51 | AVG | 0.17 | -10.00 | 0.20 | 19.88 | 46.00 | -26.12 |

## 6.2 Radiated Emissions

| | |
|---|---|
| Temperature | 22°C |
| Relative Humidity | 50% |
| Atmospheric Pressure | 1019mbar |
| Test date : | January 06, 2017 |
| Tested By : | Amos Xia |

Requirement(s):

| Spec | Requirement | Applicable |
|---|---|---|
| §15.109 | 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<br>Frequency range (MHz) / Field Strength (μV/m)<br>30 – 88 / 100<br>88 – 216 / 150<br>216 – 960 / 200<br>Above 960 / 500 | ☒ |
| Test Setup |  | |
| Procedure | 1. The EUT was switched on and allowed to warm up to its normal operating condition.<br>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:<br>a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.<br>b. The EUT was then rotated to the direction that gave the maximum emission.<br>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.<br>3. For emission frequencies measured below and above 1GHz, set the spectrum analyzer on a 100kHz and 1MHz resolution bandwidth respectively for each frequency measured.<br>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 ☐N/A | |

Data sample

| No. | Frequency | Reading | Detector | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degree |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBμV/m) | | (dB/m) | (dB) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | (cm) | (°) |

Frequency (MHz) = Emission frequency in MHz

Reading (dBμV/m) = Receiver Reading Value

Detector= Peak Detector or Quasi Peak Detector

Ant_F=Antenna Factor

PA_G=Pre-Amplifier Gain

Cab_L=Cable Loss

Result (dBμV/m) = Read ing Value + Corrected Value

Limit (dBμV/m) = Limit stated in standard

Height (cm) = Height of Receiver antenna

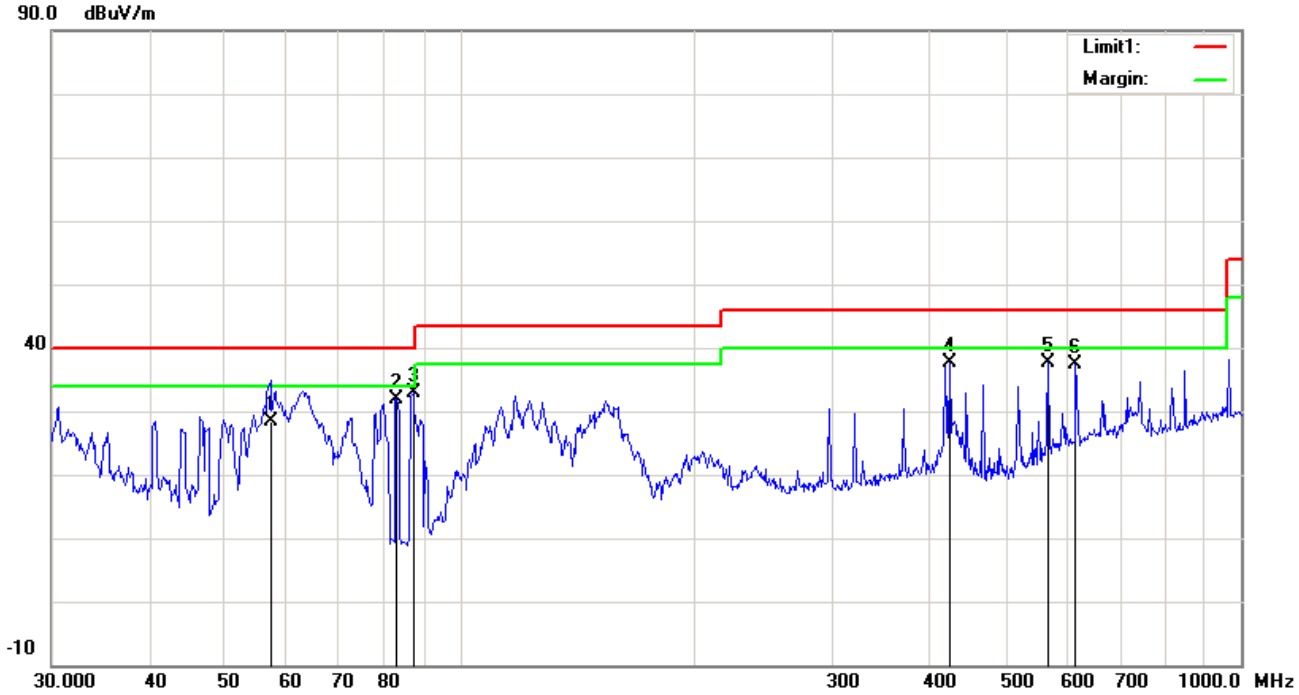
Degree = Turn table degree

Calculation Formula:

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

| Test Mode: | Receiving Mode |
|---|---|

(30MHz - 1GHz)



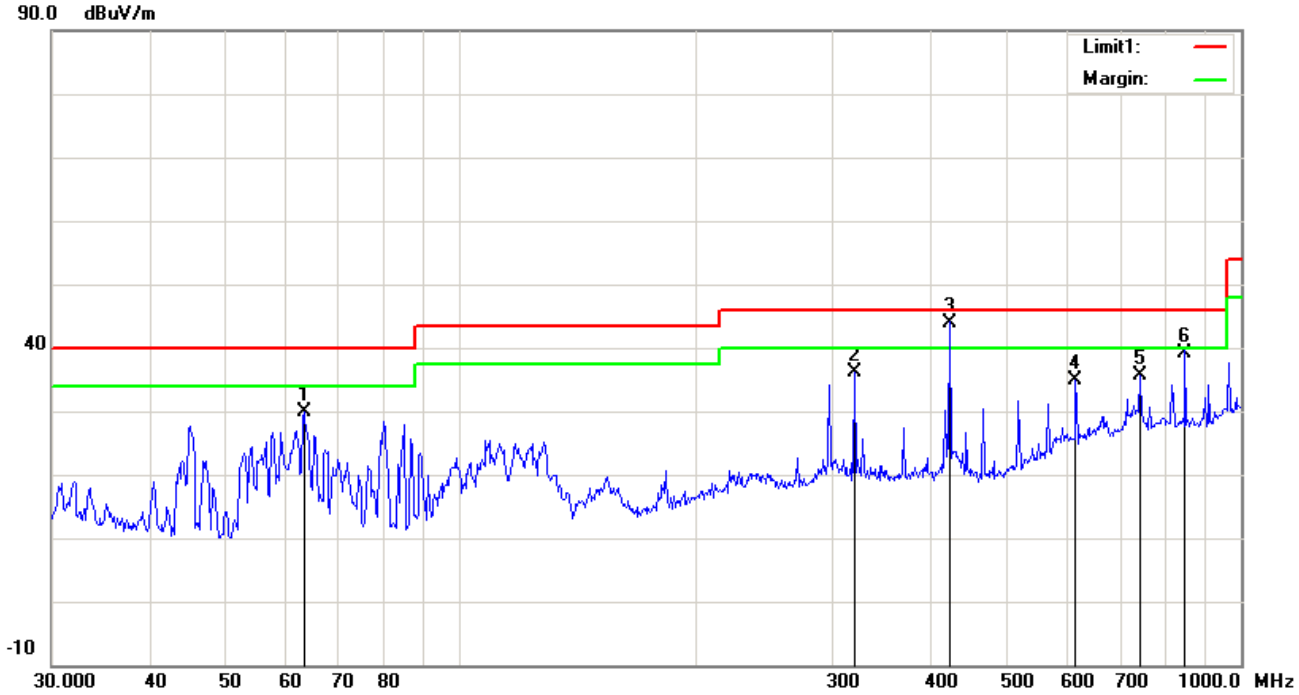

***Test Data***

Vertical Polarity Plot @3m

| No. | Frequency (MHz) | Reading (dBμV/m) | Detector | Ant_F (dB/m) | PA_G (dB) | Cab_L (dB) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Degree (° ) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 57.1914 | 65.83 | QP | 8.18 | 46.95 | 1.28 | 28.34 | 40.00 | -11.66 | 100 | 78 |
| 2 | 82.9385 | 70.31 | peak | 7.83 | 47.62 | 1.46 | 31.98 | 40.00 | -8.02 | 100 | 50 |
| 3 | 87.1117 | 70.08 | peak | 8.52 | 47.31 | 1.49 | 32.78 | 40.00 | -7.22 | 100 | 15 |
| 4 | 423.5403 | 66.88 | peak | 16.60 | 49.08 | 3.31 | 37.71 | 46.00 | -8.29 | 200 | 53 |
| 5 | 566.6223 | 63.65 | peak | 18.61 | 48.34 | 3.81 | 37.73 | 46.00 | -8.27 | 120 | 360 |
| 6 | 614.2142 | 60.16 | peak | 20.59 | 47.47 | 3.98 | 37.26 | 46.00 | -8.74 | 100 | 35 |

| Test Mode: | Receiving Mode |
|---|---|

(30MHz - 1GHz)




***Test Data***

Horizontal Polarity Plot @3m

| No. | Frequency | Reading | Detector | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degree |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBμV/m) | | (dB/m) | (dB) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | (cm) | (° ) |
| 1 | 63.0916 | 66.12 | peak | 9.86 | 47.50 | 1.34 | 29.82 | 40.00 | -10.18 | 200 | 157 |
| 2 | 319.9370 | 65.13 | peak | 16.72 | 48.68 | 2.86 | 36.03 | 46.00 | -9.97 | 100 | 88 |
| 3 | 423.5403 | 73.62 | QP | 16.00 | 49.08 | 3.31 | 43.85 | 46.00 | -2.15 | 100 | 150 |
| 4 | 614.2142 | 56.84 | peak | 21.42 | 47.47 | 3.98 | 34.77 | 46.00 | -11.23 | 200 | 150 |
| 5 | 742.2587 | 53.77 | peak | 22.65 | 45.09 | 4.37 | 35.70 | 46.00 | -10.30 | 100 | 94 |
| 6 | 848.0563 | 57.79 | QP | 22.86 | 46.23 | 4.69 | 39.11 | 46.00 | -6.89 | 100 | 206 |

| Test Mode: | Receiving Mode |
|---|---|

(Above 1GHz)

Vertical Polarity Plot @3m

| No. | Frequency | Reading | Detector | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degree |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBμV/m) | | (dB/m) | (dB) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | (cm) | (° ) |
| 1 | 1240.000 | 70.47 | peak | 24.53 | 52.09 | 2.80 | 45.71 | 74.00 | -28.29 | 100 | 50 |
| 2 | 1360.000 | 65.80 | peak | 24.75 | 51.06 | 2.89 | 42.38 | 74.00 | -31.62 | 100 | 179 |
| 3 | 1695.000 | 61.61 | peak | 25.82 | 50.79 | 3.98 | 40.62 | 74.00 | -33.38 | 100 | 134 |
| 4 | 2170.000 | 60.83 | peak | 27.85 | 52.38 | 4.17 | 40.47 | 74.00 | -33.53 | 100 | 205 |
| 5 | 2330.000 | 60.86 | peak | 28.55 | 52.50 | 4.08 | 40.99 | 74.00 | -33.01 | 100 | 66 |
| 6 | 3905.000 | 58.79 | peak | 32.28 | 52.96 | 5.54 | 43.65 | 74.00 | -30.35 | 100 | 324 |

Horizontal Polarity Plot @3m

| No. | Frequency | Reading | Detector | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degree |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (MHz) | (dBμV/m) | | (dB/m) | (dB) | (dB) | (dBμV/m) | (dBμV/m) | (dB) | (cm) | (° ) |
| 1 | 1085.000 | 66.29 | peak | 24.25 | 53.42 | 2.60 | 39.72 | 74.00 | -34.28 | 100 | 57 |
| 2 | 1195.000 | 64.29 | peak | 24.45 | 52.48 | 2.76 | 39.02 | 74.00 | -34.98 | 200 | 189 |
| 3 | 1240.000 | 72.15 | peak | 24.53 | 52.09 | 2.80 | 47.39 | 74.00 | -26.61 | 200 | 208 |
| 4 | 2315.000 | 59.77 | peak | 28.49 | 52.49 | 4.09 | 39.86 | 74.00 | -34.14 | 200 | 166 |
| 5 | 2570.000 | 60.17 | peak | 29.27 | 52.66 | 4.11 | 40.89 | 74.00 | -33.11 | 100 | 181 |
| 6 | 5205.000 | 57.04 | peak | 33.74 | 53.92 | 6.32 | 43.18 | 74.00 | -30.82 | 100 | 221 |

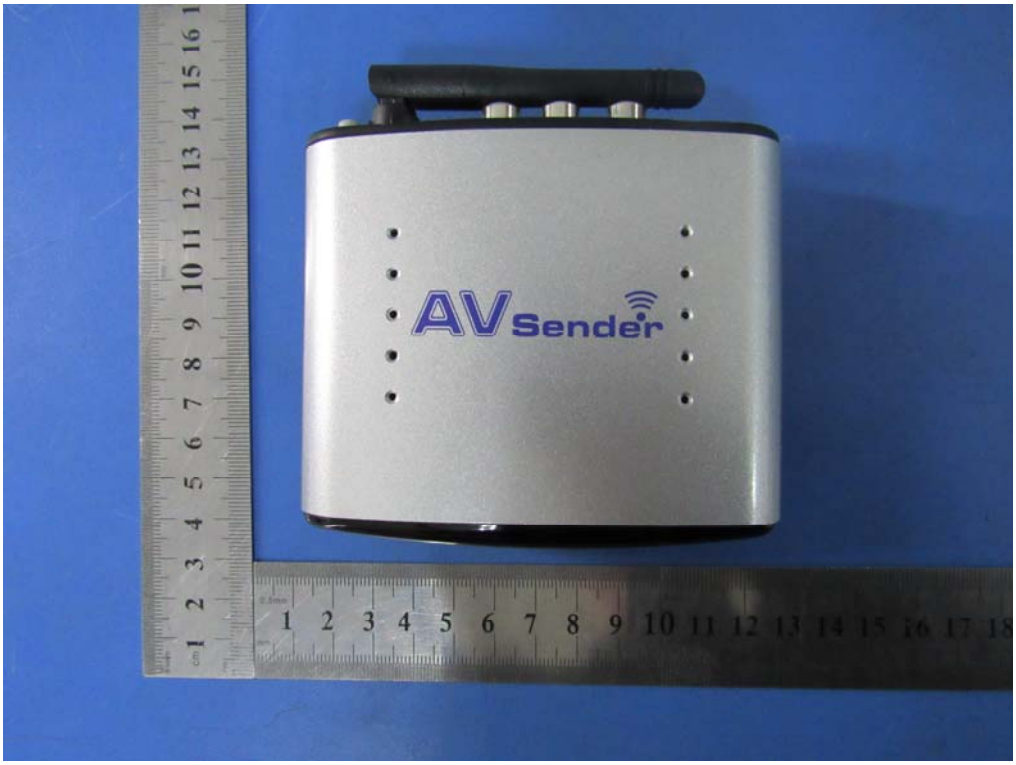
# Annex A. TEST INSTRUMENT

| Instrument | Model | Serial # | Cal Date | Cal Due | In use |
|---|---|---|---|---|---|
| AC Line Conducted Emissions | | | | | |
| R&S EMI Test Receiver | ESPI3 | 101216 | 03/31/2016 | 03/31/2017 | ☒ |
| V-LISN | ESH3-Z5 | 838979/005 | 03/31/2016 | 03/31/2017 | ☒ |
| SIEMIC EZ_EMC Conducted Emissions software | Ver.ICP-03A1 | N/A | N/A | N/A | ☒ |
| Radiated Emissions | | | | | |
| Agilent Technologies Spectrum Analyzer | N9010A | MY47191130 | 03/31/2016 | 03/31/2017 | ☒ |
| R&S EMI Receiver | ESPI3 | 101216 | 03/31/2016 | 03/31/2017 | ☒ |
| Antenna (30MHz~6GHz) | JB6 | A121411 | 10/31/2016 | 10/31/2017 | ☒ |
| Hp Agilent Pre-Amplifier | 8447F | 1937A01160 | 10/27/2016 | 10/26/2017 | ☒ |
| Agilent Technologies Pre-Amplifier | 8449B | 3008A02224 | 10/30/2016 | 10/30/2017 | ☒ |
| SIEMIC EZ_EMC Radiated Emissions software | Ver.ICP-03A1 | N/A | N/A | N/A | ☒ |

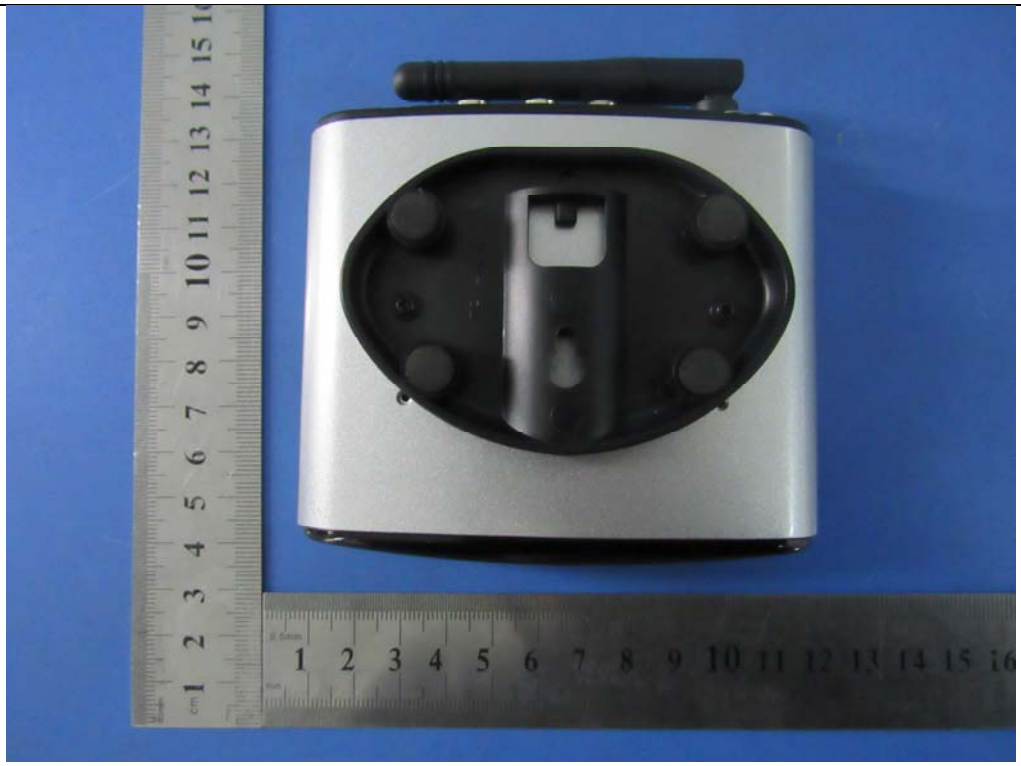
# Annex B. EUT And Test Setup Photographs

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


All Packages Front View



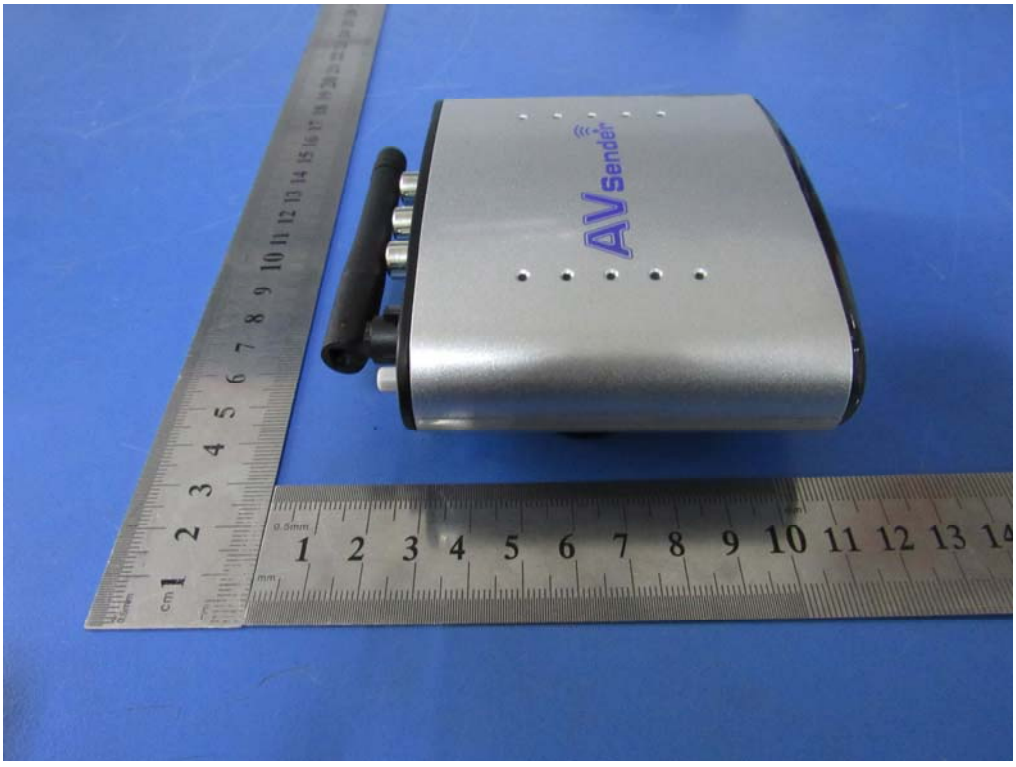

Top View of EUT



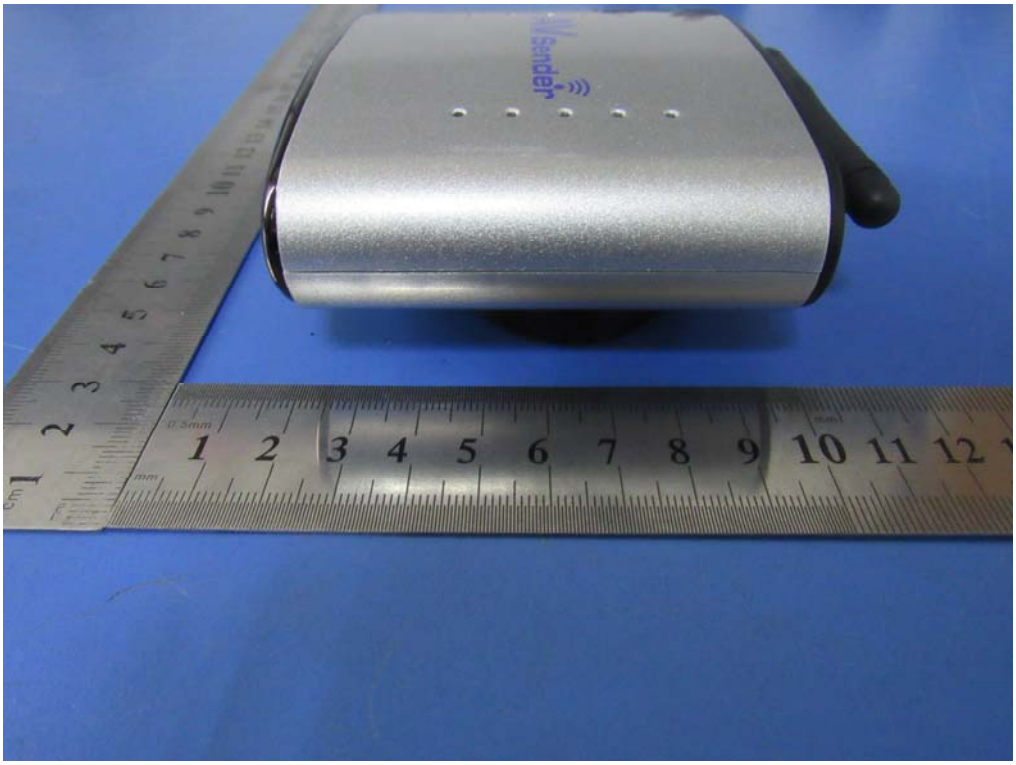
Bottom View of EUT


Front View of EUT


Rear View of EUT

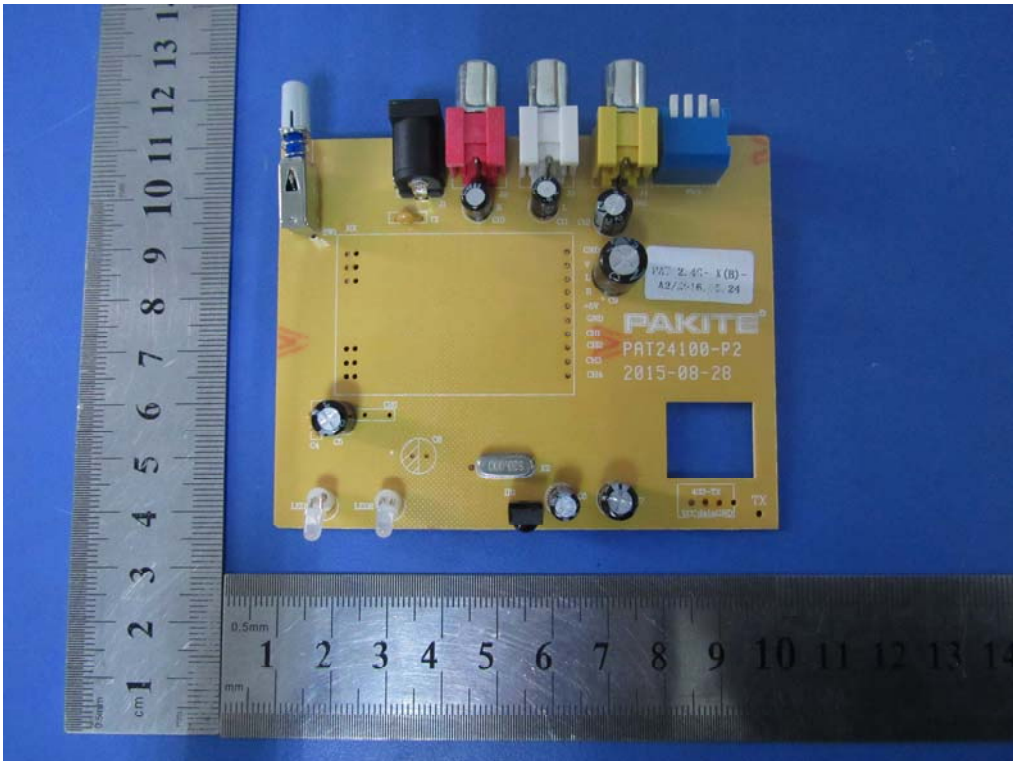



Left View of EUT

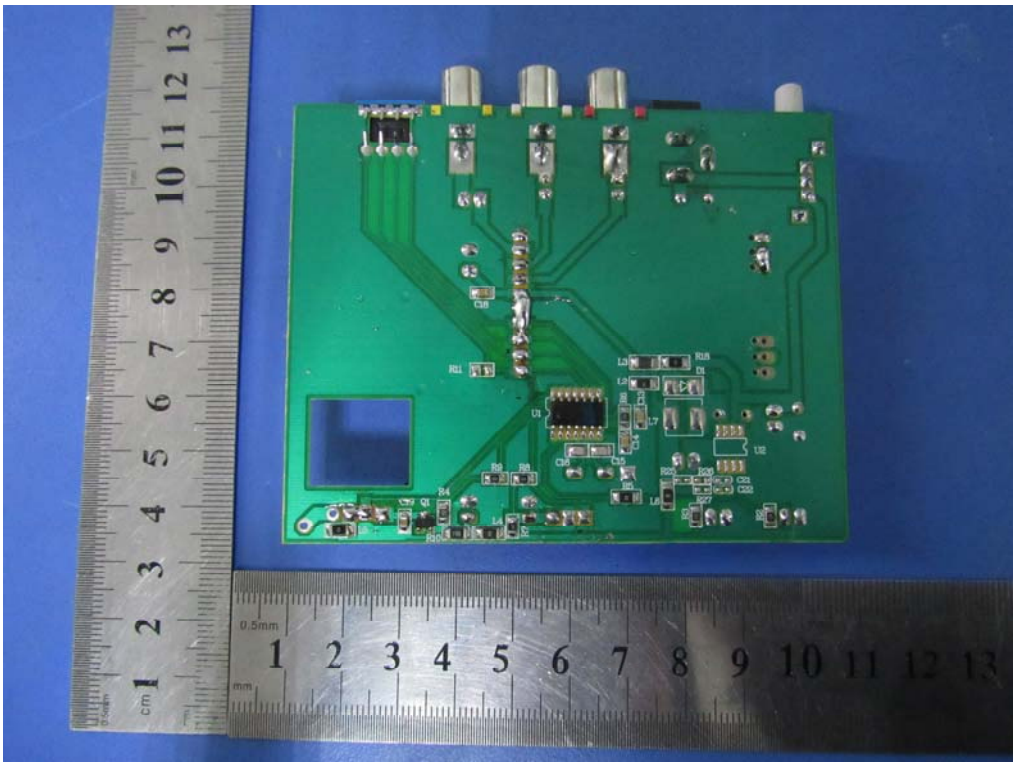



Right View of EUT

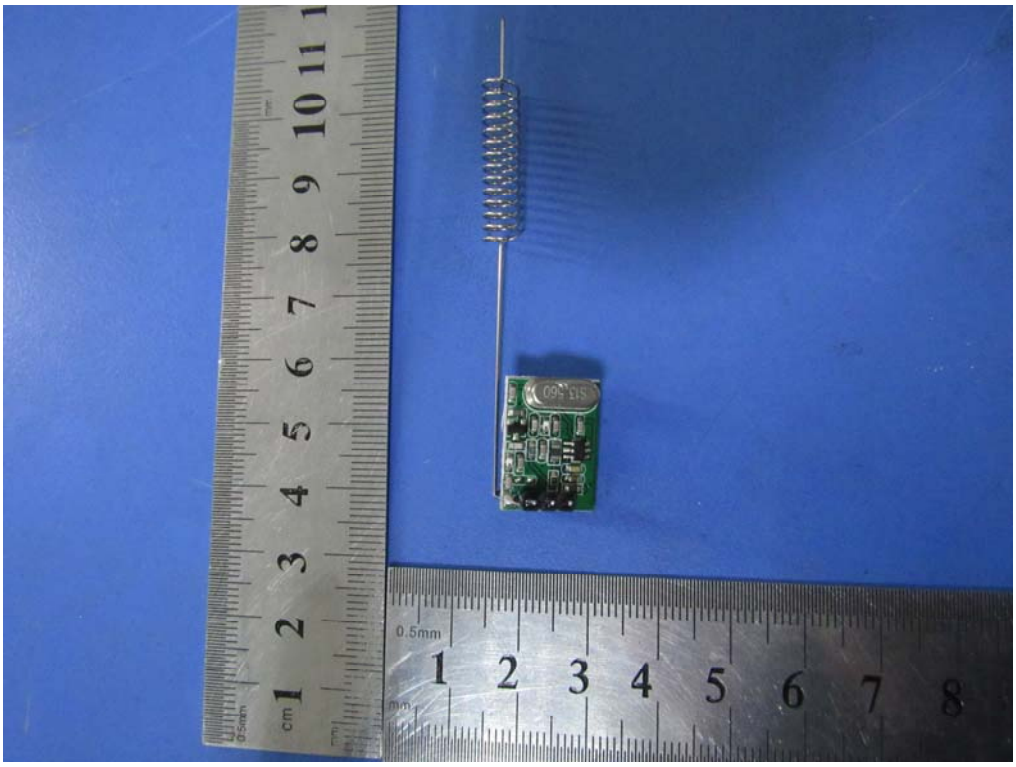
## Annex B.ii. Photograph EUT Internal Photos



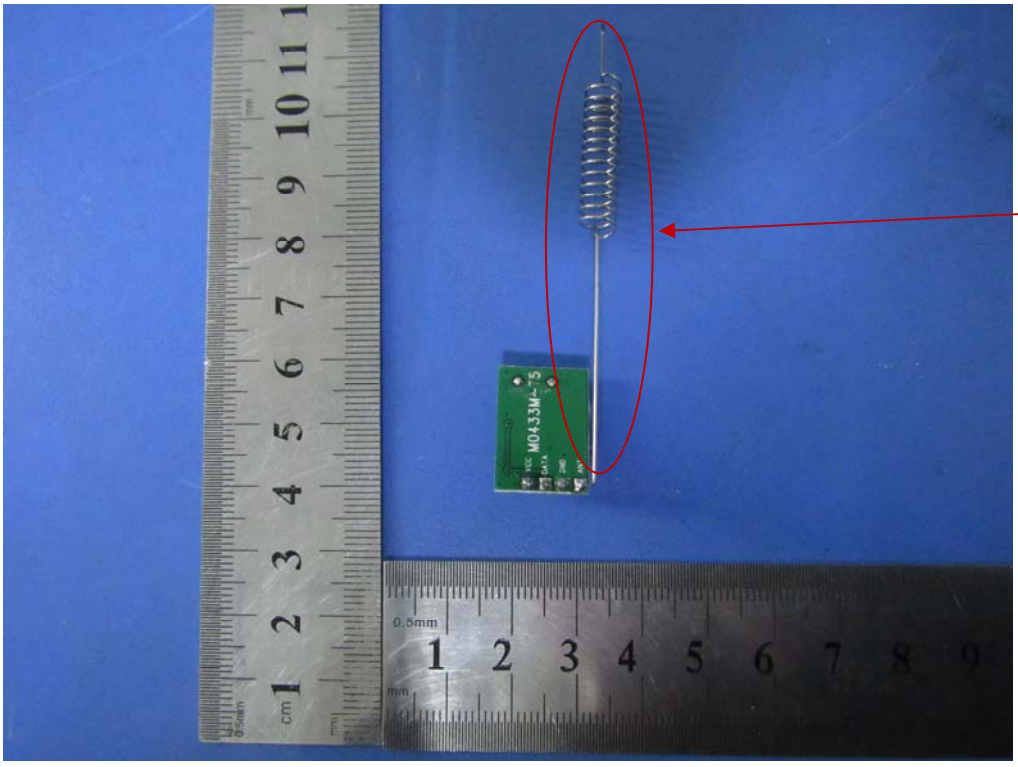

EUT PCBA 1 – Front View



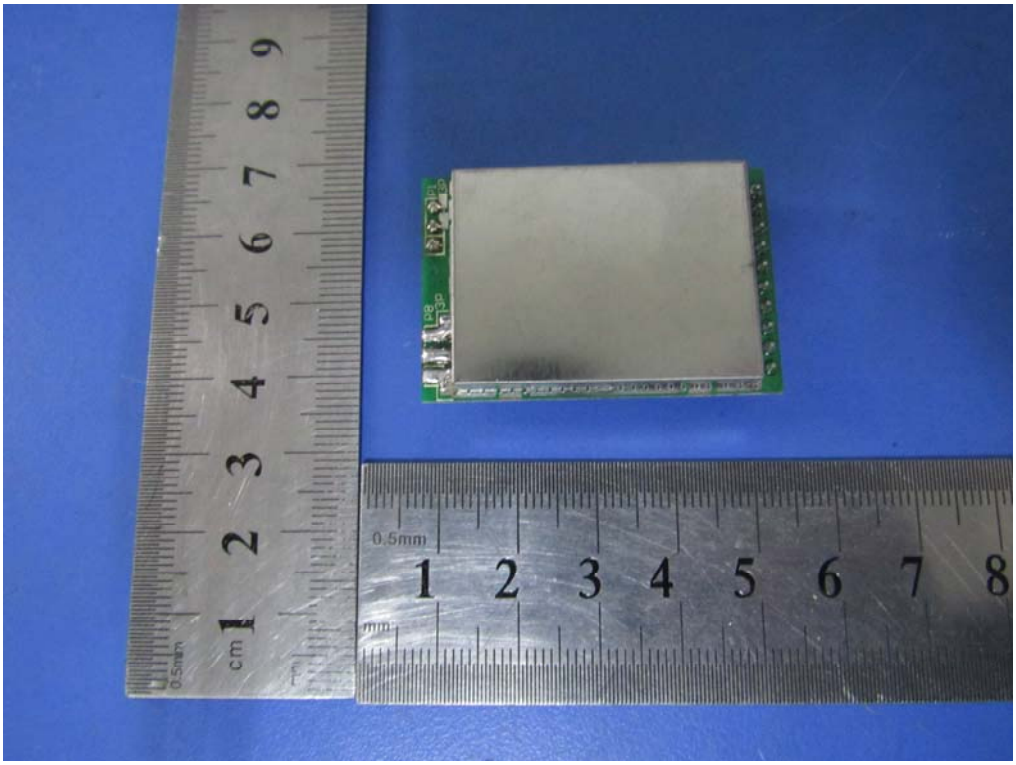
EUT PCBA 1 – Rear View



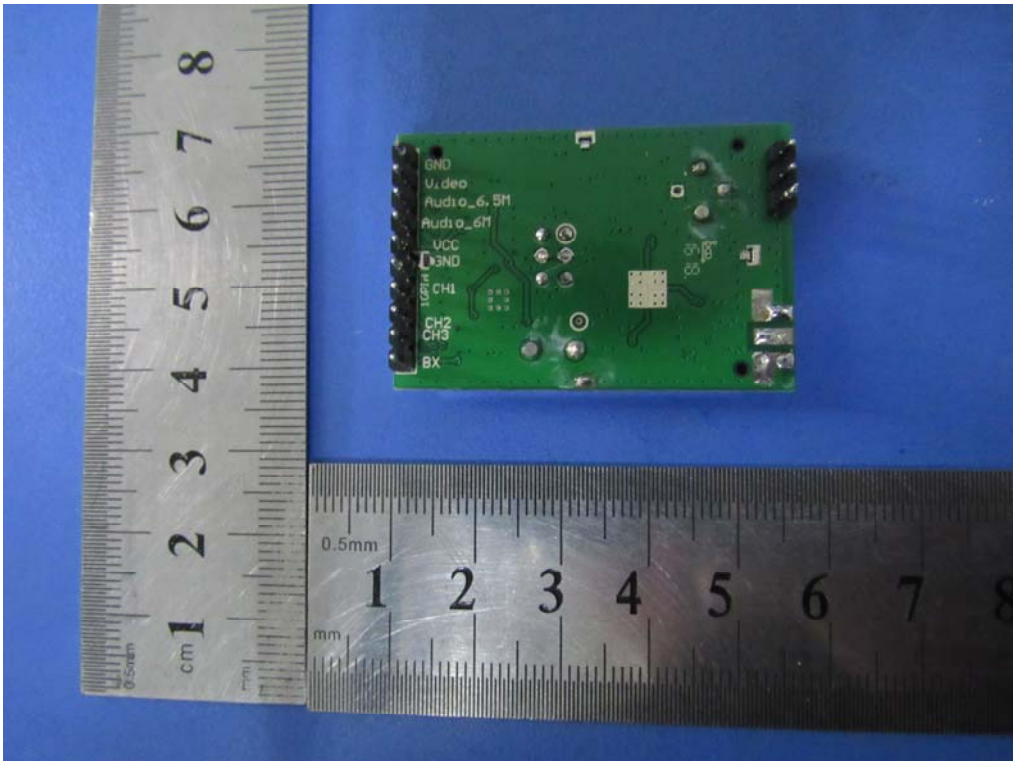
EUT PCBA 2 – Front View



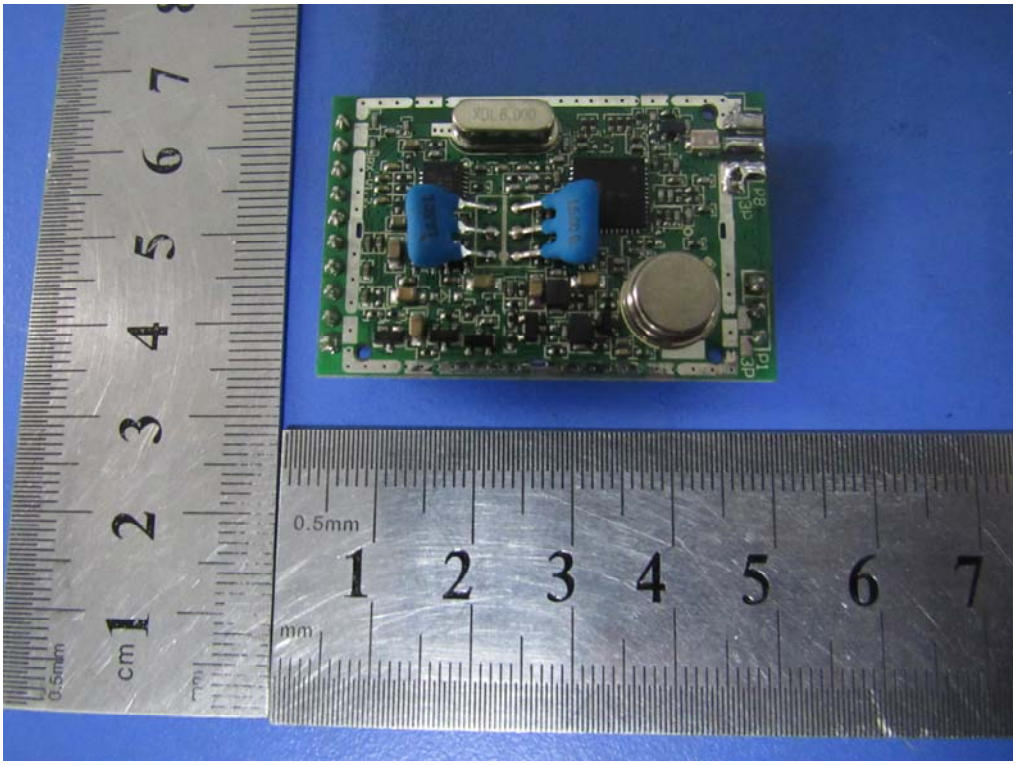

EUT PCBA 2 – Rear View




2.4G Module Front View




2.4G Module Rear View

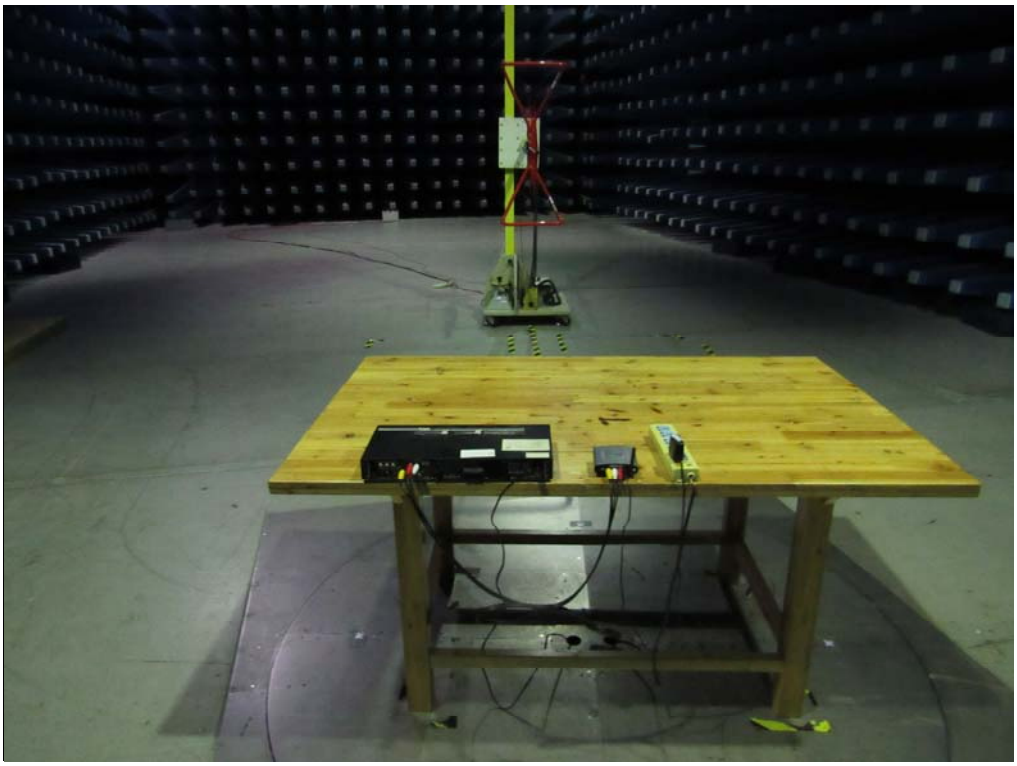



2.4G Module Shielding off Front View

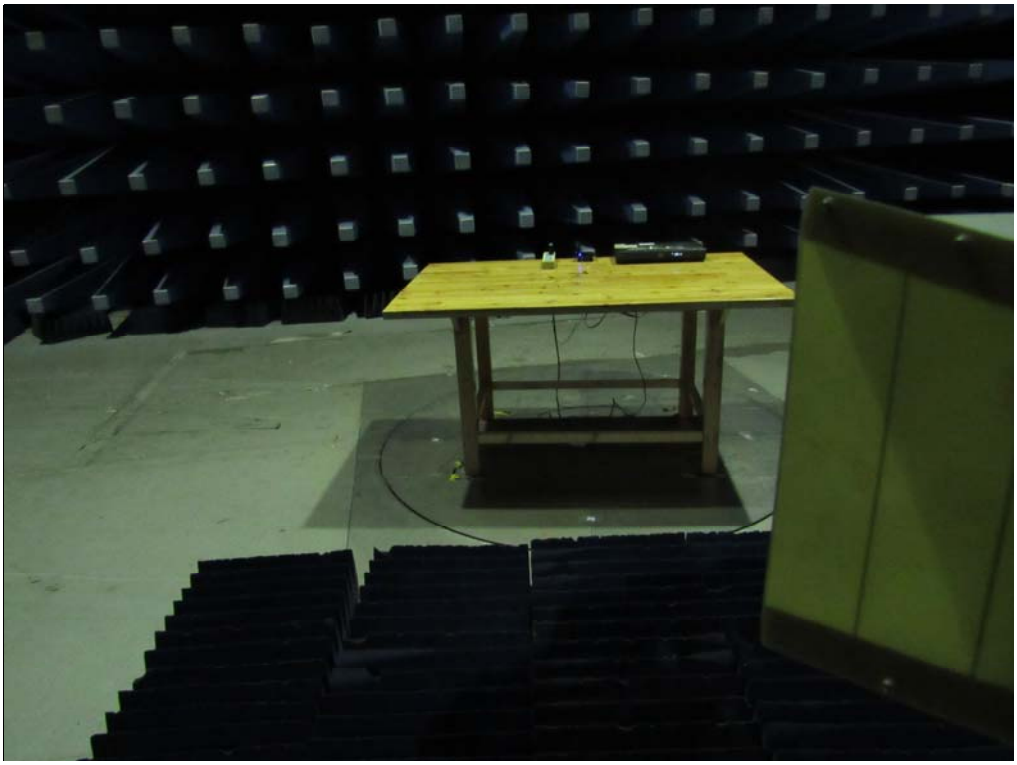
## Annex B.iii. Photograph Test Setup Photo

Conducted Emissions Setup Front View

Conducted Emissions Setup Side View



Front View of Radiated Emissions Test Setup below 30MHz

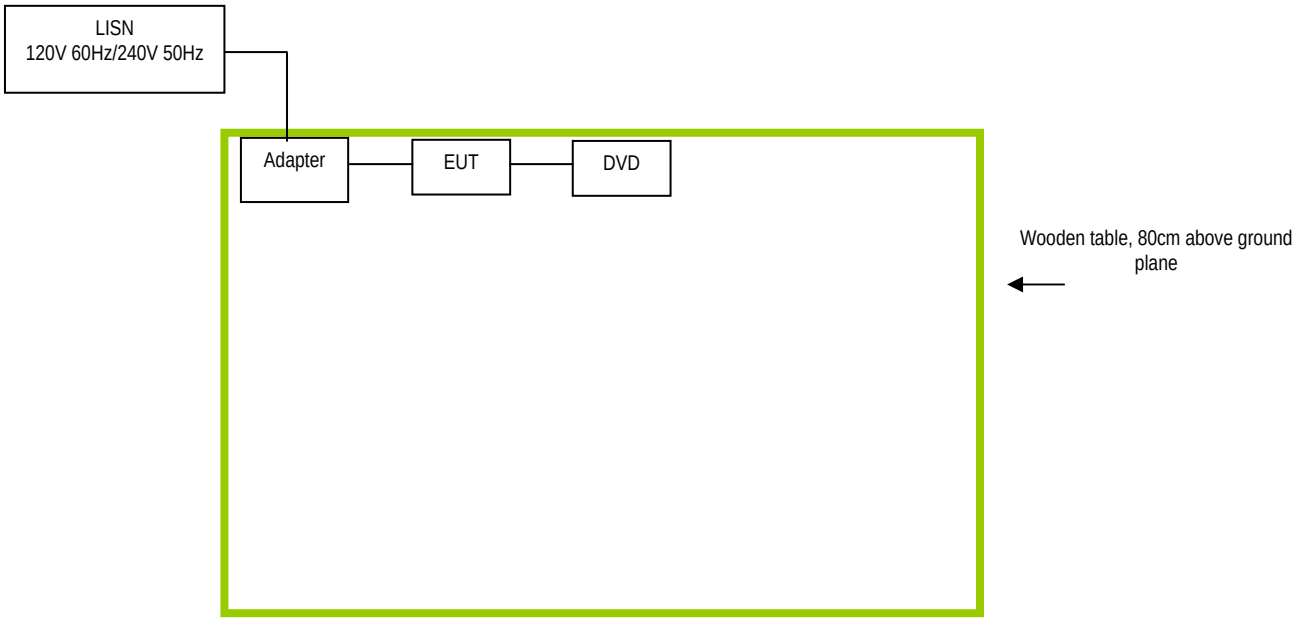


Radiated Emissions Setup Below 1GHz Front View

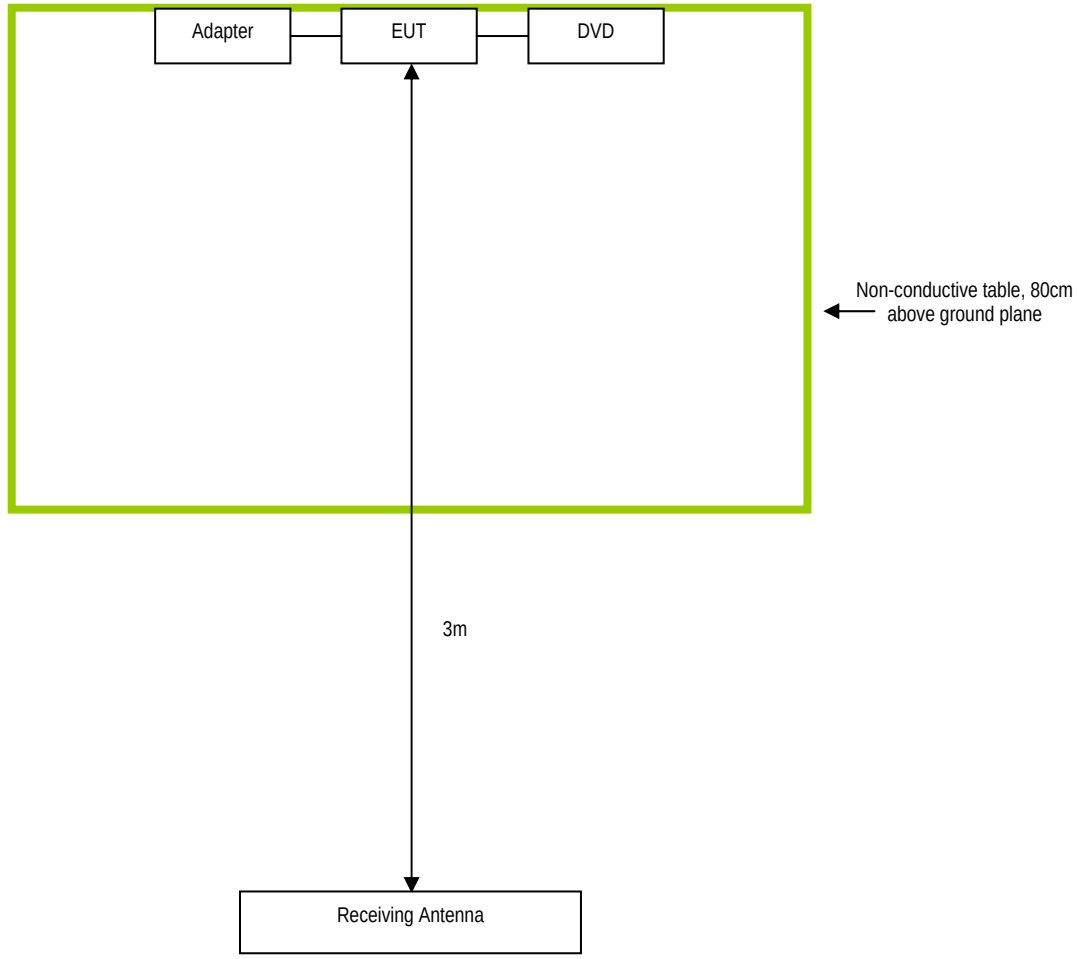
# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

## 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 |
|---|---|---|
| SONY | DVD | BDP-S350 |

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

Please see Attachment

# Annex E. DECLARATION OF SIMILARITY

**Date:2016-12-20**

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

**Statement**

FCC ID：2ABU5-24GAVSENDER
Model number: PAT-220、PAT-240、PAT-260、PAT-280、PAT-330、
PAT-350、PAT-360、PAT-370、PAT-380、

We hereby state that these models are identical in , electrical circuits and components, and just model names and appearance of the product shell color, antenna appearance, are different for the marketing requirement.

The following model is the “wireless av sender with IR remote control "

PAT-220, silver shell , dual antenna gain 2dB

PAT-240, black shell , dual antenna gain 2dB

AT-260, black shell , dual antenna gain 2dB

AT-280, bright black shell , dual antenna gain 2dB

The following model is the “wireless av sender without IR remote control "

PAT-330, silver shell , dual antenna gain 2dB

PAT-350, black shell , dual antenna gain 2dB

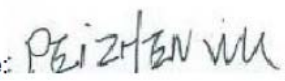
PAT-360, black shell , dual antenna gain 2dB

PAT-370, black shell , dual antenna gain 2dB

PAT-380, black shell , dual antenna gain 2dB

Your assistance on this matter is highly appreciated.

Sincerely,

Signature: 

Name : _PEIZHEN WU____

Title: _General Manager_

Company Name: SHENZHEN PAKITE TECHNOLOGY CO.,LTD.

Address: 12 Floor,Building,2 Reservoir Avenue,Nankeng Community, Bantian Street Longgang Distrct ,Shenzhen, China.

Telephone: +86-755-83366901

Fax No.: +86-755-83366910