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|---|--|---|-------------|---------------------|---|--|--|
| Test Report Number: | LCZE20110119 | | | | | | |
| Applicant Name: | Energy Recovery Products(Zhu hai) Co., Ltd | | | | | | |
| Applicant Address: | No.8,Pingdong Road 2,Nanping Science Park, Zhuhai, Guangdong, China | | | | | | |
| Test item: | LED Driver | | | | | | |
| Model / Type Reference: | See section 4.2 ratings and system details | | | | | | |
| Date of Issue: | 2020-12-01 | | | | | | |
| Testing Laboratory: | LCTECH Guangdong Testing Services Co., Ltd. 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China | | | | | | |
| Test Specification: | FCC CFR Title 47 PART 15 Subpart B | | | | | | |
| Test Result: | Passed | | | | | | |
| Compiled by: | | | | Reviewed by: | | | |
| 2020-12-01 | Alan Tian |  | 2020-12-01 | Barlow Lv |  | | |
| <i>Date</i> | <i>Name</i> | <i>Signature</i> | <i>Date</i> | <i>Name</i> | <i>Signature</i> | | |
| Remark: | | | | | | | |
| N/A | | | | | | | |
| <p>The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of the examination of the product sample submitted by the applicant. A general statement concerning the quality of the products from the series manufacture cannot be derived therefore.</p> | | | | | | | |



TEST SUMMARY

- 5.1 MAINS TERMINAL CONTINUOUS DISTURBANCE VOLTAGE
RESULT: Pass
- 5.2 RADIATED EMISSION
RESULT: Pass

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1 General Remarks

When applying the basic standards in this test report, please refer to the applied generic or product family standards for edition information:

For dated basic standards, only the edition cited applies. For undated basic standards, the latest edition (including any amendments) applies.

1.1 Complementary Materials

Constructional Data form

2 Measurement Uncertainty

| Test Item | Uncertainty |
|--|-----------------------|
| Uncertainty for Conduction emission test | 3.26dB |
| Uncertainty for Radiation Emission test | 3.14 dB (Polarize: V) |
| | 3.16 dB (Polarize: H) |

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

3 Test Sites

3.1 Test Facilities

A. LCTECH Guangdong Testing Services Co., Ltd.

Add: 2/F., Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

Test Sites: 1/F., Building I, Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

3.2 Testing

Date of receipt of test item : 2020-11-27

Date (s) of performance of tests : 2020-11-27

LCTECH Guangdong Testing Services Co., Ltd.
Add: 2/F., Technology and Enterprise Development Center,
Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

Tel: +86-760-22833366

Fax: +86-760-22833399

E-mail: Service@lccert.com

<http://www.lccert.com>

3.3 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal.Date (yyyy-mm-dd) | Cal.Due date (yyyy-mm-dd) |
|----------------------------|-----------------------------|-----------------------|-----------|------------|--------------------------|-------------------------------------|
| Radiated Emission | | | | | | <input checked="" type="checkbox"/> |
| 1 | EMI Test Receiver | R&S | ESCI 7 | 100965 | 2020-07-27 | 2021-07-27 |
| 2 | Log-periodic Dipole Antenna | Schwarzbeck | VULB 9162 | 058 | 2020-01-10 | 2021-01-10 |
| 3 | Pre-Amplifier | SCHWARZBECK | BBV9743 | 9743-143 | 2020-01-10 | 2021-01-10 |
| 4 | 3m Semi-anechoic | Zhongshuo Electronics | 9mx6mx6m | N/A | 2020-01-10 | 2021-01-10 |
| Disturbance Voltage | | | | | | <input checked="" type="checkbox"/> |
| 5 | EMI Test Receiver | Rohde&Schwarz | ESCI | 100939 | 2020-01-10 | 2021-01-10 |
| 6 | Artificial Mains Network | Rohde&Schwarz | ENV216 | 3560655012 | 2020-07-27 | 2021-07-27 |
| 7 | Shield Room | ZhongYu Eletron | 8X5X3.5 | N/A | 2020-07-27 | 2021-07-27 |
| 8 | Conducted Emission Software | FALA | EZ-EMC | N/A | N/A | N/A |

☐ : Not Used

☒ : Used

4 General Product Information

According to the declaration from the applicant, this report covers the model as below: See section 4.2 ratings and system details. These models have the same internal configuration and PCB layout, the difference of these models was power, Therefore PSS30W-0700-42 was fully test in the report.

4.1 Product Description and Intended Use

Refer to Constructional Data Form and user manual.

4.2 Ratings and System Details

| No. | Model No. | Input Voltage (Vac) | Max Output Power | Max output current(mA) | Output Voltage Range (Vdc) |
|-----|------------------------------|---------------------|------------------|------------------------|----------------------------|
| 1 | PSSPPW-XXXX-VV-YYYYYY-ZZZZZZ | 120/277 | 29.4 | 700 | 42 |

For model series PSSPPW-XXXX-VV-YYYYYY-ZZZZZZ

1. Where "PP"— If $P_{out} < 10W$, "PP"=10; if $10W \leq P_{out} \leq 15W$, "PP"=15; if $15W < P_{out} \leq 20W$, "PP"=20; if $20W < P_{out} \leq 25W$, "PP"=25; if $25W < P_{out} \leq 30W$, "PP"=30.
2. "XXXX" - Denotes regulated output current. Regulated output current is not greater than max output regulated current within the output voltage range.
3. "VV" - Denotes maximum output voltage(in voltage) which is not greater than max output voltage range.
4. "YYYYYY" - Denotes customer code for market purpose only. It could be blank, 2-6 digits, any combination of alphanumeric characters or blank.
5. "ZZZZZZ" - Denotes customer code for market purpose only. It could be blank, 2-6 digits, any combination of alphanumeric characters or blank.

4.3 Independent Operation Modes

The basic operation modes are:

- A. Test in lighting mode

4.4 Noise Generating and Noise Suppressing Parts

Refer to the Constructional Data Form

4.5 Submitted Documents

Difference declaration
Rating Label
Circuit diagram
User manual
PCB layout

4.6 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.7 Physical Configuration for Testing

Refer to the related chapter in this test report.

4.8 Test Operation and Test Software

Refer to test set up in chapter 5.
All testing were performed according to the procedures in ANSI C63.10: 2013.

4.9 Special Accessories and Auxiliary Equipment

None

4.10 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

5 Test Results EMISSION

5.1 Conducted Emission

Results:

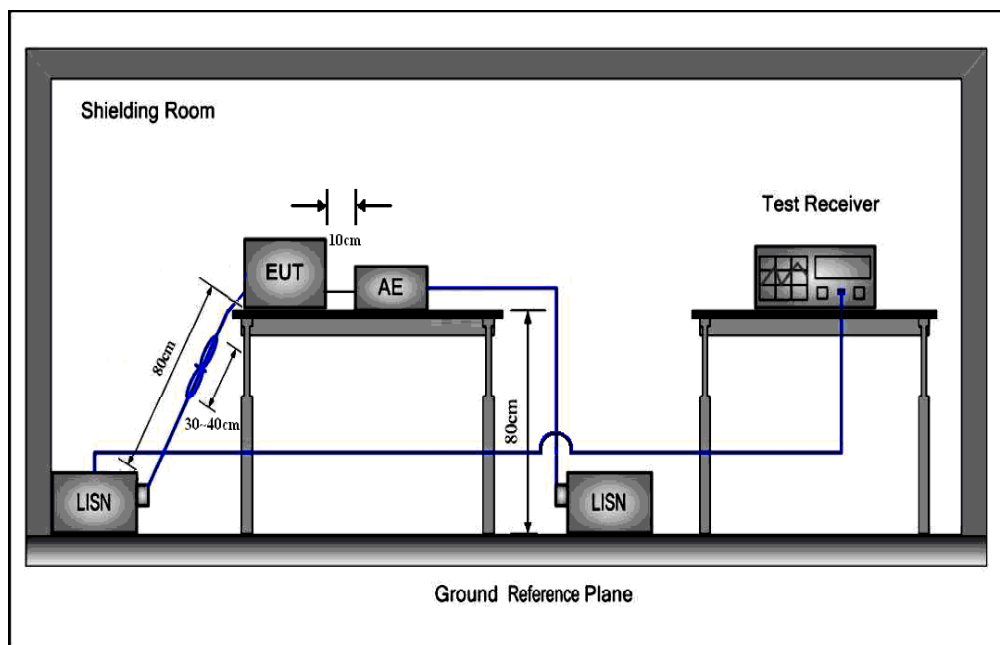
Pass

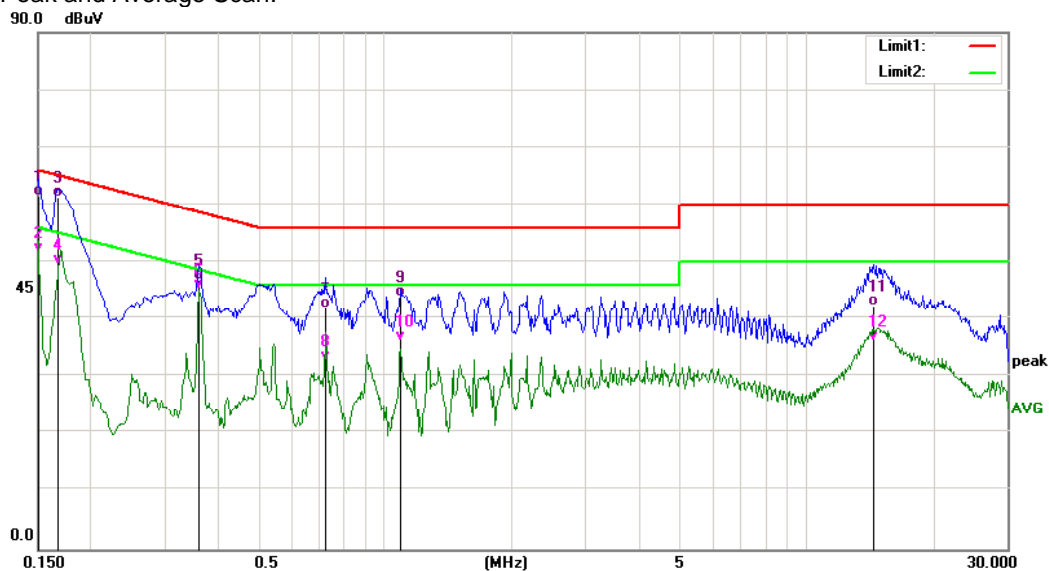
Date of testing : Nov 27, 2020
 Test procedure : ANSI C63.4:2014
 Frequency range : 0.15- 30MHz
 Kind of test site : shielded room
 Limits : FCC PART 15 Subpart B

Test setup

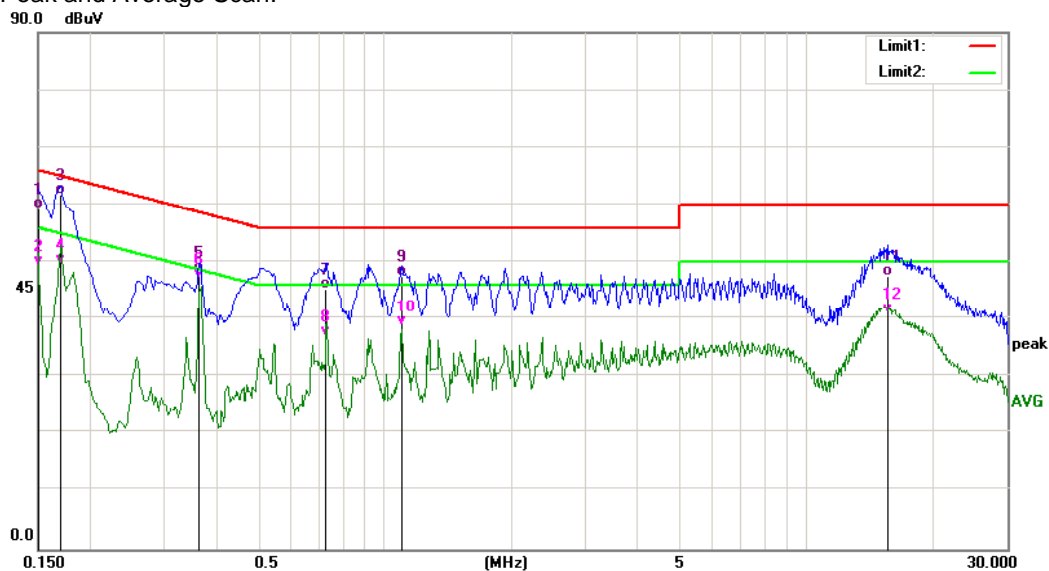
Input Voltage : 120&277Vac, 60Hz
 Operation Mode : A
 Artificial Hand : Not applied
 Earthing : Applied
 Temperature : 23°C
 Humidity : 58%
 Air pressure : 101KPA

Test Connection Diagram

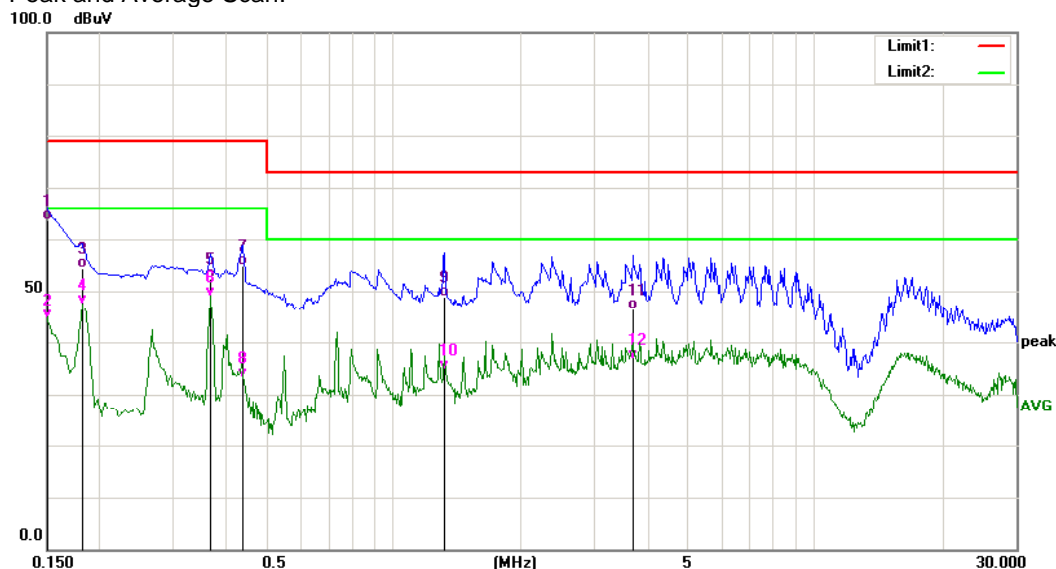


Test data for model PSS30W-0700-42
Power Source: 120Vac, 60Hz
Terminal under Test: Live Line
Fre. Range 150 kHz-30 MHz:
IF Bandwidth:9KHz
Step Size:4.5 kHz
Scan Time:20 ms
Final Meas. Time:1 s
Peak and Average Scan:

Quasi-peak and Average measurement:

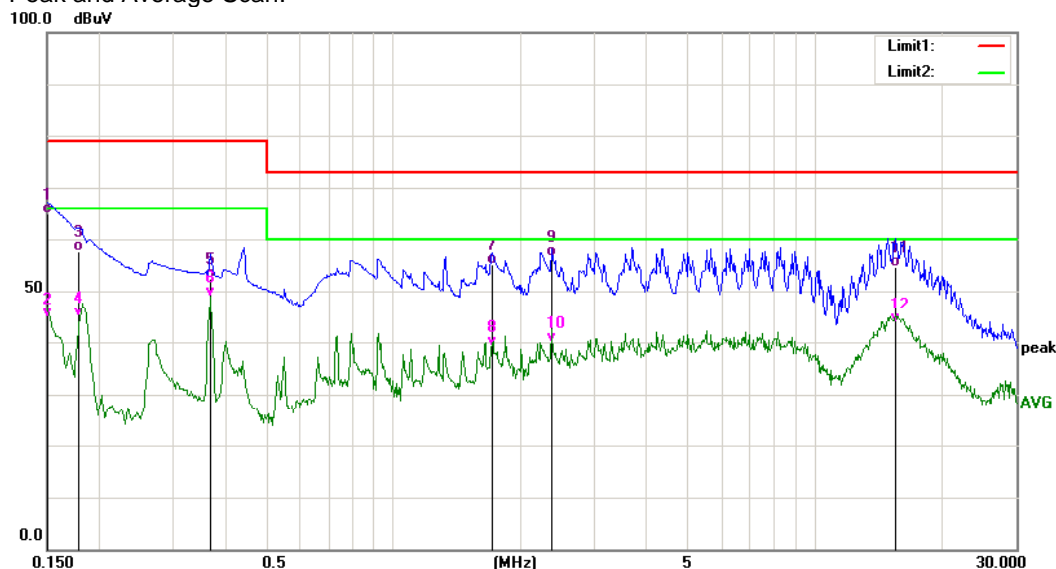
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1 | 0.1500 | 51.29 | 10.28 | 61.57 | 66.00 | -4.43 | QP |
| 2 | 0.1500 | 41.33 | 10.28 | 51.61 | 56.00 | -4.39 | AVG |
| 3 | 0.1700 | 51.13 | 10.25 | 61.38 | 64.96 | -3.58 | QP |
| 4 | 0.1700 | 39.47 | 10.25 | 49.72 | 54.96 | -5.24 | AVG |
| 5 | 0.3620 | 36.79 | 10.16 | 46.95 | 58.68 | -11.73 | QP |
| 6 | 0.3620 | 35.10 | 10.16 | 45.26 | 48.68 | -3.42 | AVG |
| 7 | 0.7220 | 31.77 | 10.19 | 41.96 | 56.00 | -14.04 | QP |
| 8 | 0.7220 | 22.61 | 10.19 | 32.80 | 46.00 | -13.20 | AVG |
| 9 | 1.0900 | 33.83 | 10.20 | 44.03 | 56.00 | -11.97 | QP |
| 10 | 1.0900 | 25.84 | 10.20 | 36.04 | 46.00 | -9.96 | AVG |
| 11 | 14.4460 | 32.11 | 10.36 | 42.47 | 60.00 | -17.53 | QP |
| 12 | 14.4460 | 25.65 | 10.36 | 36.01 | 50.00 | -13.99 | AVG |

Test data for model PSS30W-0700-42
Power Source: 120Vac,60Hz Terminal under Test: Neutral Line
Fre. Range 150 kHz-30 MHz:
IF Bandwidth:9KHz
Step Size:4.5 kHz
Scan Time:20 ms
Final Meas. Time:1 s
Peak and Average Scan:

Quasi-peak and Average measurement:

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1 | 0.1500 | 49.05 | 10.28 | 59.33 | 66.00 | -6.67 | QP |
| 2 | 0.1500 | 39.09 | 10.28 | 49.37 | 56.00 | -6.63 | AVG |
| 3 | 0.1700 | 51.50 | 10.25 | 61.75 | 64.96 | -3.21 | QP |
| 4 | 0.1700 | 39.34 | 10.25 | 49.59 | 54.96 | -5.37 | AVG |
| 5 | 0.3634 | 38.21 | 10.16 | 48.37 | 58.65 | -10.28 | QP |
| 6 | 0.3634 | 36.89 | 10.16 | 47.05 | 48.65 | -1.60 | AVG |
| 7 | 0.7260 | 35.17 | 10.19 | 45.36 | 56.00 | -10.64 | QP |
| 8 | 0.7260 | 26.82 | 10.19 | 37.01 | 46.00 | -8.99 | AVG |
| 9 | 1.0940 | 37.28 | 10.20 | 47.48 | 56.00 | -8.52 | QP |
| 10 | 1.0940 | 28.66 | 10.20 | 38.86 | 46.00 | -7.14 | AVG |
| 11 | 15.6060 | 37.13 | 10.38 | 47.51 | 60.00 | -12.49 | QP |
| 12 | 15.6060 | 30.77 | 10.38 | 41.15 | 50.00 | -8.85 | AVG |

Test data for model PSS30W-0700-42
Power Source: 277Vac, 60Hz
Terminal under Test: Live Line
Fre. Range 150 kHz-30 MHz:
IF Bandwidth:9KHz
Step Size:4.5 kHz
Scan Time:20 ms
Final Meas. Time:1 s
Peak and Average Scan:

Quasi-peak and Average measurement:

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1 | 0.1500 | 53.33 | 10.28 | 63.61 | 79.00 | -15.39 | QP |
| 2 | 0.1500 | 34.04 | 10.28 | 44.32 | 66.00 | -21.68 | AVG |
| 3 | 0.1820 | 44.23 | 10.23 | 54.46 | 79.00 | -24.54 | QP |
| 4 | 0.1820 | 37.19 | 10.23 | 47.42 | 66.00 | -18.58 | AVG |
| 5 | 0.3660 | 42.29 | 10.16 | 52.45 | 79.00 | -26.55 | QP |
| 6 | 0.3660 | 38.76 | 10.16 | 48.92 | 66.00 | -17.08 | AVG |
| 7 | 0.4380 | 44.76 | 10.16 | 54.92 | 79.00 | -24.08 | QP |
| 8 | 0.4380 | 22.98 | 10.16 | 33.14 | 66.00 | -32.86 | AVG |
| 9 | 1.3180 | 38.74 | 10.20 | 48.94 | 73.00 | -24.06 | QP |
| 10 | 1.3180 | 24.45 | 10.20 | 34.65 | 60.00 | -25.35 | AVG |
| 11 | 3.6900 | 36.11 | 10.24 | 46.35 | 73.00 | -26.65 | QP |
| 12 | 3.6900 | 26.28 | 10.24 | 36.52 | 60.00 | -23.48 | AVG |

Test data for model PSS30W-0700-42
Power Source: 277Vac,60Hz
Terminal under Test: Neutral Line
Fre. Range 150 kHz-30 MHz:
IF Bandwidth:9KHz
Step Size:4.5 kHz
Scan Time:20 ms
Final Meas. Time:1 s
Peak and Average Scan:

Quasi-peak and Average measurement:

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1 | 0.1500 | 54.56 | 10.28 | 64.84 | 79.00 | -14.16 | QP |
| 2 | 0.1500 | 34.34 | 10.28 | 44.62 | 66.00 | -21.38 | AVG |
| 3 | 0.1796 | 47.35 | 10.23 | 57.58 | 79.00 | -21.42 | QP |
| 4 | 0.1796 | 34.62 | 10.23 | 44.85 | 66.00 | -21.15 | AVG |
| 5 | 0.3660 | 42.12 | 10.16 | 52.28 | 79.00 | -26.72 | QP |
| 6 | 0.3660 | 38.75 | 10.16 | 48.91 | 66.00 | -17.09 | AVG |
| 7 | 1.7100 | 44.95 | 10.21 | 55.16 | 73.00 | -17.84 | QP |
| 8 | 1.7100 | 28.89 | 10.21 | 39.10 | 60.00 | -20.90 | AVG |
| 9 | 2.3700 | 46.33 | 10.22 | 56.55 | 73.00 | -16.45 | QP |
| 10 | 2.3700 | 29.78 | 10.22 | 40.00 | 60.00 | -20.00 | AVG |
| 11 | 15.5460 | 44.18 | 10.38 | 54.56 | 73.00 | -18.44 | QP |
| 12 | 15.5460 | 33.30 | 10.38 | 43.68 | 60.00 | -16.32 | AVG |

5.2 Radiated Emission

Results:

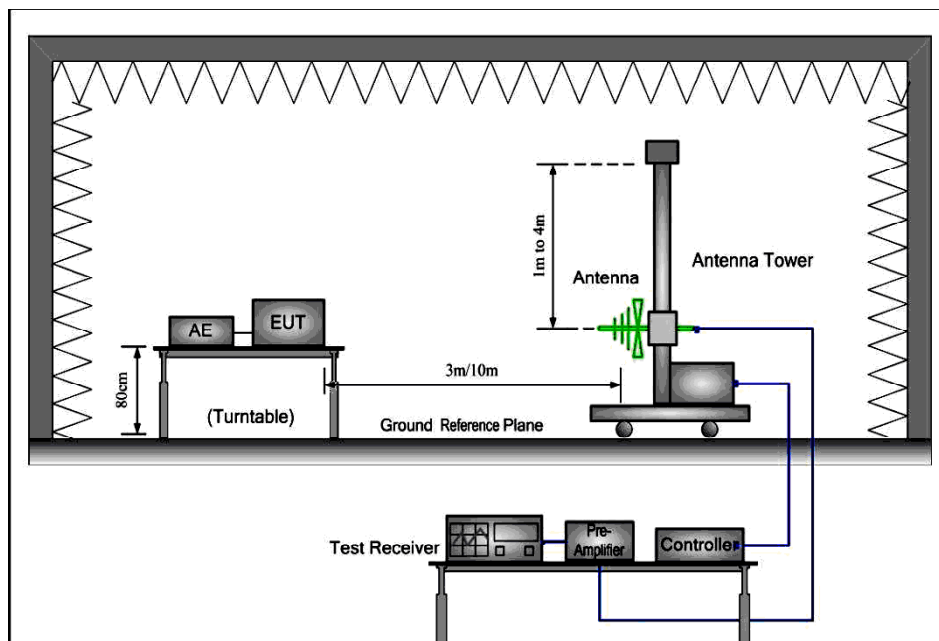
Pass

Date of testing : Nov 27, 2020
 Test procedure : ANSI C63.4:2014
 Frequency range : 30- 1000MHz
 Kind of test site : Semi-Anechoic chamber
 Limits : FCC PART 15 Subpart B

Test setup:

Input Voltage : 120&277Vac, 60Hz
 Operation Mode : A
 Artificial Hand : Not applied
 Earthing : Applied
 Temperature : 24°C
 Humidity : 56%
 Air pressure : 101KPA

Test Connection Diagram



Test data for model PSS30W-0700-42
Power Source: 120Vac, 60Hz

Polarization: Horizontal

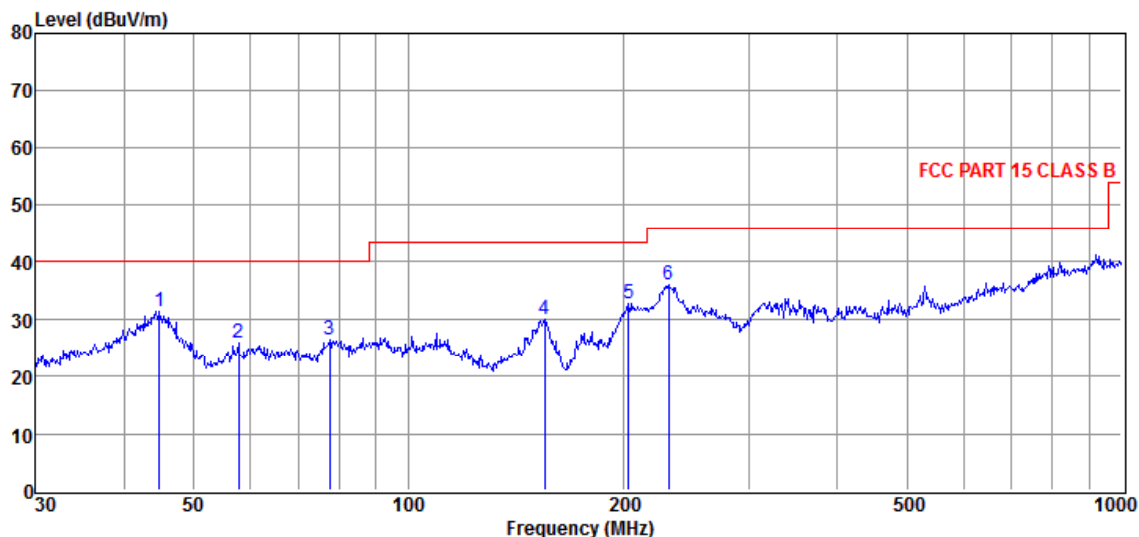
Fre. Range: 30 MHz-1000 MHz:

Peak Sweep:

RBW: 120 kHz

Meas. Distance: 3 m

Final Meas. Time: 1 s



Quasi-peak measurement:

| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 44.74 | 14.32 | 16.42 | 0.00 | 0.55 | 31.29 | 40.00 | -8.71 | Peak | HORIZONTAL |
| 2 | 57.80 | 14.85 | 10.42 | 0.00 | 0.64 | 25.91 | 40.00 | -14.09 | Peak | HORIZONTAL |
| 3 | 77.59 | 19.11 | 6.65 | 0.00 | 0.75 | 26.51 | 40.00 | -13.49 | Peak | HORIZONTAL |
| 4 | 155.36 | 21.26 | 7.59 | 0.00 | 1.11 | 29.96 | 43.50 | -13.54 | Peak | HORIZONTAL |
| 5 | 203.52 | 21.65 | 9.71 | 0.00 | 1.32 | 32.68 | 43.50 | -10.82 | Peak | HORIZONTAL |
| 6 | 231.72 | 22.87 | 11.60 | 0.00 | 1.43 | 35.90 | 46.00 | -10.10 | Peak | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit

3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

Test data for model PSS30W-0700-42
Power Source :120Vac, 60Hz

Polarization: Vertical

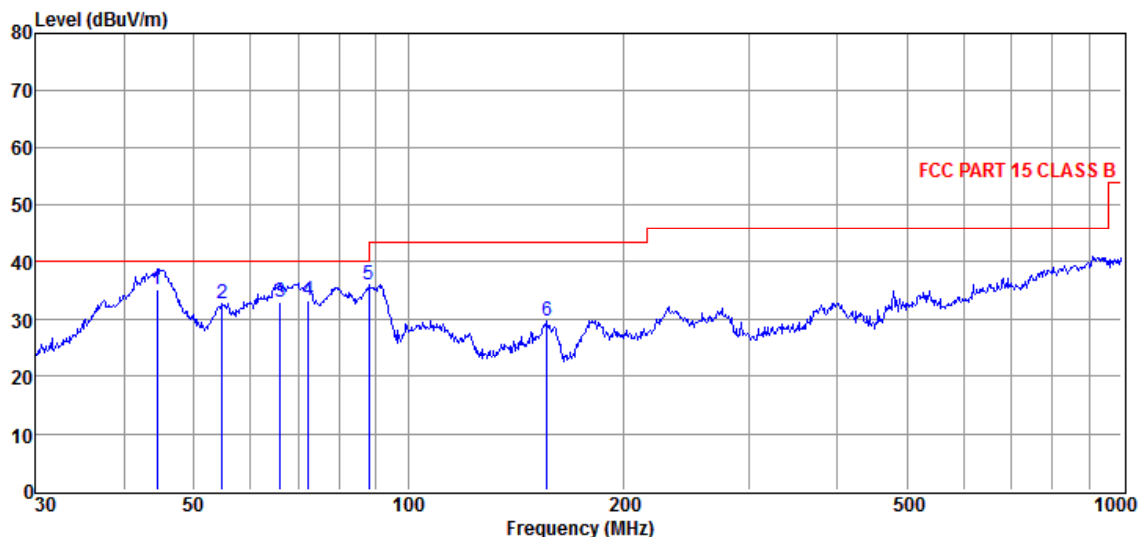
Fre. Range:30 MHz-1000 MHz:

Peak Sweep:

RBW:120 kHz

Meas. Distance:3 m

Final Meas. Time:1 s



Quasi-peak measurement:

| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 44.43 | 18.10 | 16.58 | 0.00 | 0.55 | 35.23 | 40.00 | -4.77 | QP | VERTICAL |
| 2 | 54.84 | 22.86 | 9.18 | 0.00 | 0.62 | 32.66 | 40.00 | -7.34 | Peak | VERTICAL |
| 3 | 66.03 | 23.27 | 9.14 | 0.00 | 0.68 | 33.09 | 40.00 | -6.91 | QP | VERTICAL |
| 4 | 72.34 | 25.30 | 7.23 | 0.00 | 0.71 | 33.24 | 40.00 | -6.76 | QP | VERTICAL |
| 5 | 88.03 | 26.59 | 8.73 | 0.00 | 0.79 | 36.11 | 43.50 | -7.39 | Peak | VERTICAL |
| 6 | 156.46 | 20.97 | 7.54 | 0.00 | 1.11 | 29.62 | 43.50 | -13.88 | Peak | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit

3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

Test data for model PSS30W-0700-42
Power Source :277Vac, 60Hz

Polarization: Horizontal

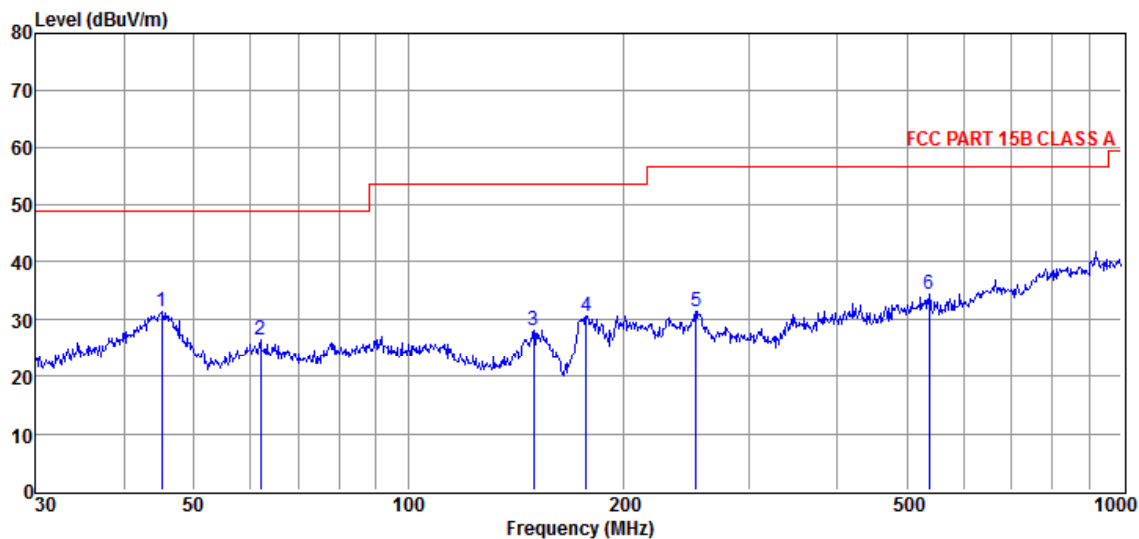
Fre. Range:30 MHz-1000 MHz:

Peak Sweep:

RBW:120 kHz

Meas. Distance:3 m

Final Meas. Time:1 s



Quasi-peak measurement:

| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 45.06 | 14.47 | 16.27 | 0.00 | 0.56 | 31.30 | 49.00 | -17.70 | Peak | HORIZONTAL |
| 2 | 62.00 | 15.24 | 10.51 | 0.00 | 0.66 | 26.41 | 49.00 | -22.59 | Peak | HORIZONTAL |
| 3 | 150.01 | 19.20 | 7.80 | 0.00 | 1.08 | 28.08 | 53.50 | -25.42 | Peak | HORIZONTAL |
| 4 | 177.51 | 22.26 | 7.15 | 0.00 | 1.21 | 30.62 | 53.50 | -22.88 | Peak | HORIZONTAL |
| 5 | 252.95 | 17.45 | 12.36 | 0.00 | 1.51 | 31.32 | 56.50 | -25.18 | Peak | HORIZONTAL |
| 6 | 537.59 | 13.85 | 17.69 | 0.00 | 2.72 | 34.26 | 56.50 | -22.24 | Peak | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit

3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

Test data for model PSS30W-0700-42
Power Source :277Vac, 60Hz

Polarization: Vertical

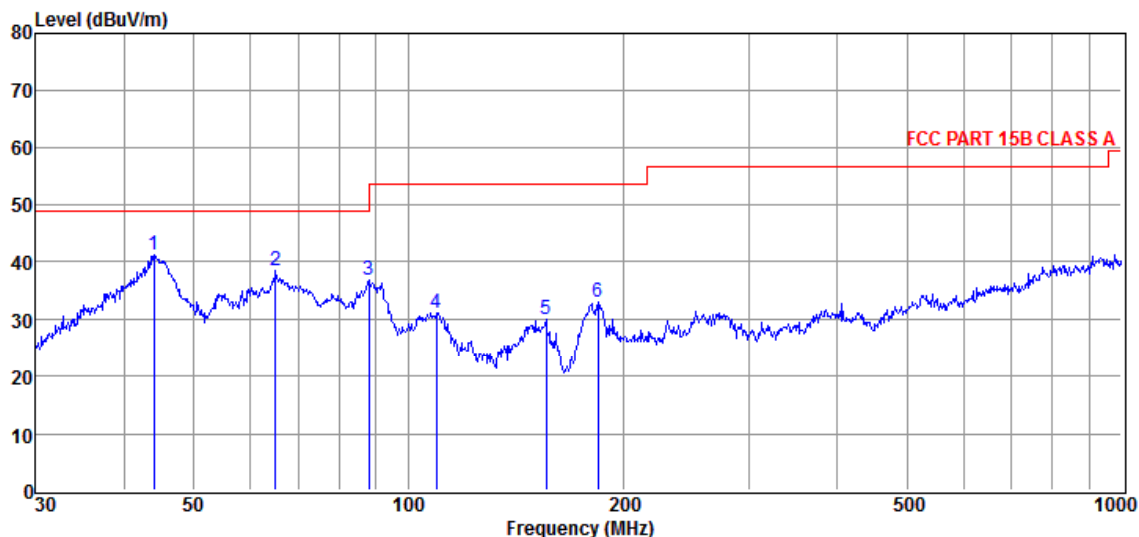
Fre. Range:30 MHz-1000 MHz:

Peak Sweep:

RBW:120 kHz

Meas. Distance:3 m

Final Meas. Time:1 s



Quasi-peak measurement:

| Item (Mark) | Freq (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|---------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 43.97 | 23.83 | 16.77 | 0.00 | 0.55 | 41.15 | 49.00 | -7.85 | Peak | VERTICAL |
| 2 | 65.11 | 28.43 | 9.46 | 0.00 | 0.68 | 38.57 | 49.00 | -10.43 | Peak | VERTICAL |
| 3 | 88.03 | 27.29 | 8.73 | 0.00 | 0.79 | 36.81 | 53.50 | -16.69 | Peak | VERTICAL |
| 4 | 109.41 | 18.46 | 11.76 | 0.00 | 0.90 | 31.12 | 53.50 | -22.38 | Peak | VERTICAL |
| 5 | 155.91 | 21.30 | 7.56 | 0.00 | 1.11 | 29.97 | 53.50 | -23.53 | Peak | VERTICAL |
| 6 | 184.49 | 23.36 | 8.40 | 0.00 | 1.24 | 33.00 | 53.50 | -20.50 | Peak | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit

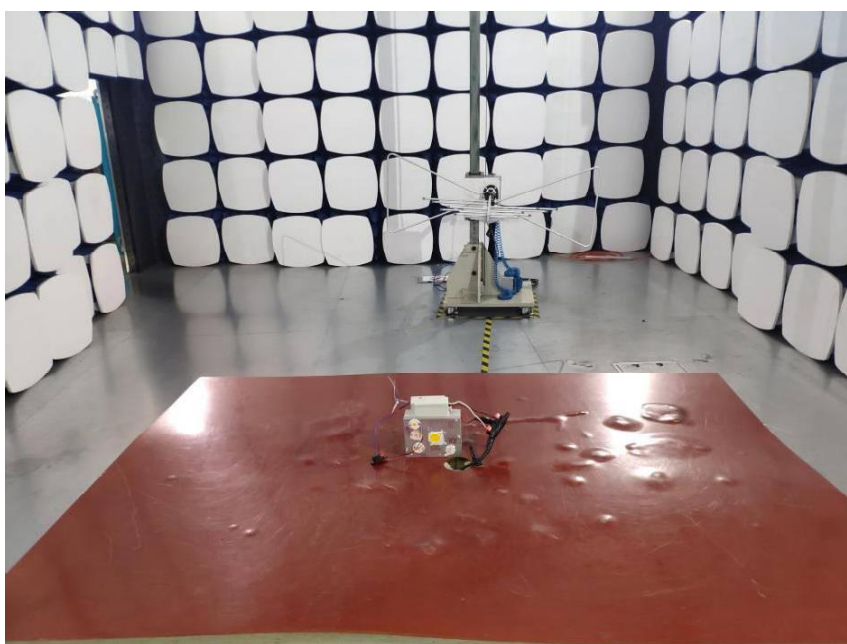
3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

6 The photos of test setting

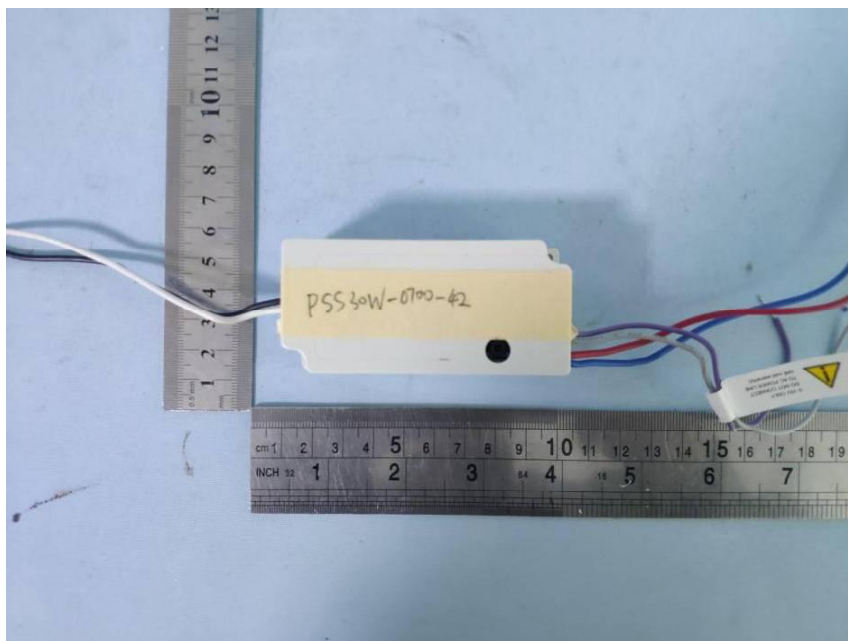
Terminal Continuous Disturbance Voltage:



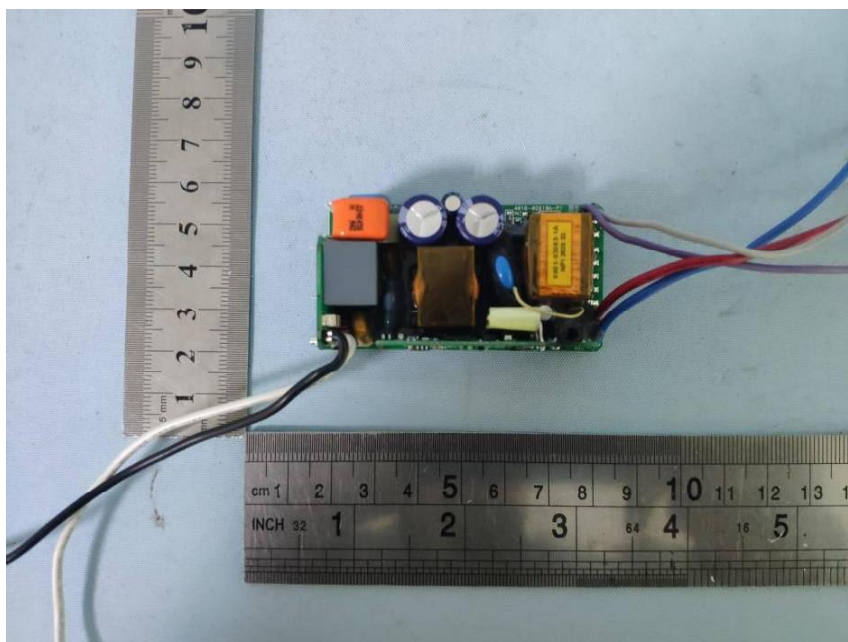
Radiated Emission:



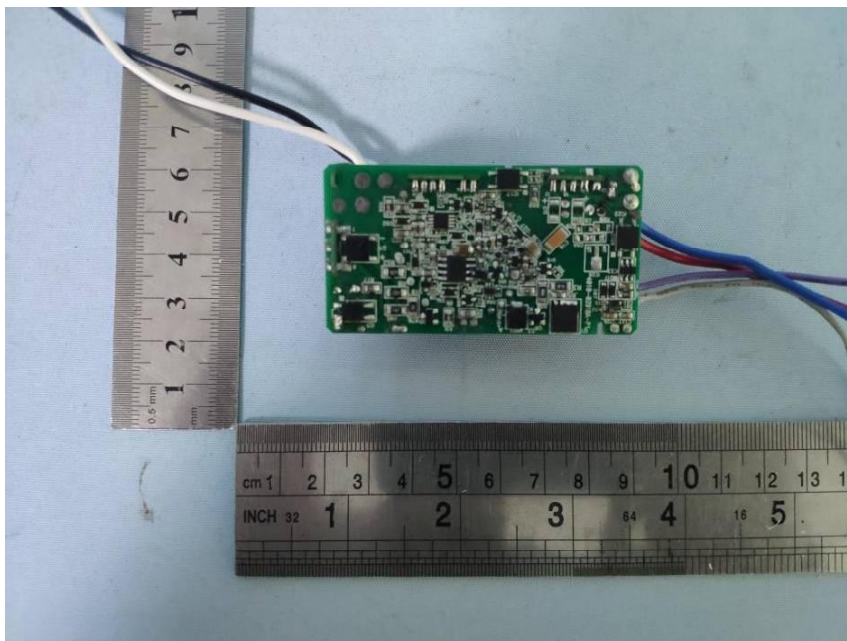
7 The photos of EUT



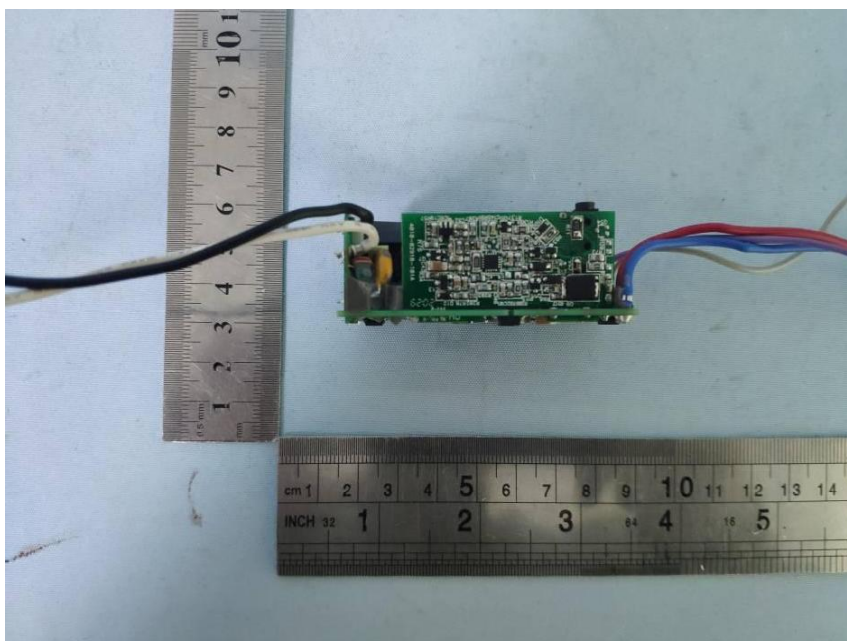
Picture 1



Picture 2



Picture 3



Picture 4

-----End of test report-----