


<b>Test Report Number:</b>	LCZE20060022					
<b>Applicant Name:</b>	Energy Recovery Products(Zhu hai ) Co., Ltd					
<b>Applicant Address:</b>	No.8,Pingdong Road 2,Nanping Science Park, Zhuhai, Guangdong, China					
<b>Test item:</b>	LED Driver					
<b>Model / Type Reference:</b>	See section 4.2 ratings and system details					
<b>Date of Issue:</b>	2020-06-16					
<b>Testing Laboratory:</b>	LCTECH Guangdong Testing Services Co., Ltd. 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China					
<b>Test Specification:</b>	FCC CFR Title 47 PART 15 Subpart B					
<b>Test Result:</b>	Passed					
<b>Compiled by:</b>	<b>Reviewed by:</b>					
2020-06-16	Alan Tian		2020-06-16	Barlow Lv		
<i>Date</i>	<i>Name</i>	<i>Signature</i>	<i>Date</i>	<i>Name</i>	<i>Signature</i>	
<b>Remark:</b>						
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 : 2020-06-08

Date (s) of performance of tests : 2020-06-09 to 2020-06-12

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](mailto: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)
<b>Radiated Emission</b>						<input checked="" type="checkbox"/>
1	EMI Test Receiver	R&S	ESCI 7	100965	2019-07-27	2020-07-27
2	Log-periodic Dipole Antenna	Schwarzbeck	VULB 9162	058	2020-01-03	2021-01-02
3	Pre-Amplifier	SCHWARZBECK	BBV9743	9743-143	2020-01-03	2021-01-02
4	3m Semi-anechoic	Zhongshuo Electronics	9mx6mx6m	N/A	2020-01-03	2021-01-02
<b>Disturbance Voltage</b>						<input checked="" type="checkbox"/>
5	EMI Test Receiver	Rohde&Schwarz	ESCI	100939	2020-01-03	2021-01-02
6	Artificial Mains Network	Rohde&Schwarz	ENV216	3560655012	2019-07-27	2020-07-27
7	Shield Room	ZhongYu Eletron	8X5X3.5	N/A	2019-07-27	2020-07-27
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 PTB30W-0700-42 and PYB30W-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	PTBPPW-XXXX-VV-YYYYYY-ZZZZZZ	120/277	29.4	700	42
2	PYBPPW-XXXX-VV-YYYYYY-ZZZZZZ	120/277	29.4	700	42

For model series PTBPPW-XXXX-VV-YYYYYY-ZZZZZZ and PYBPPW-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:

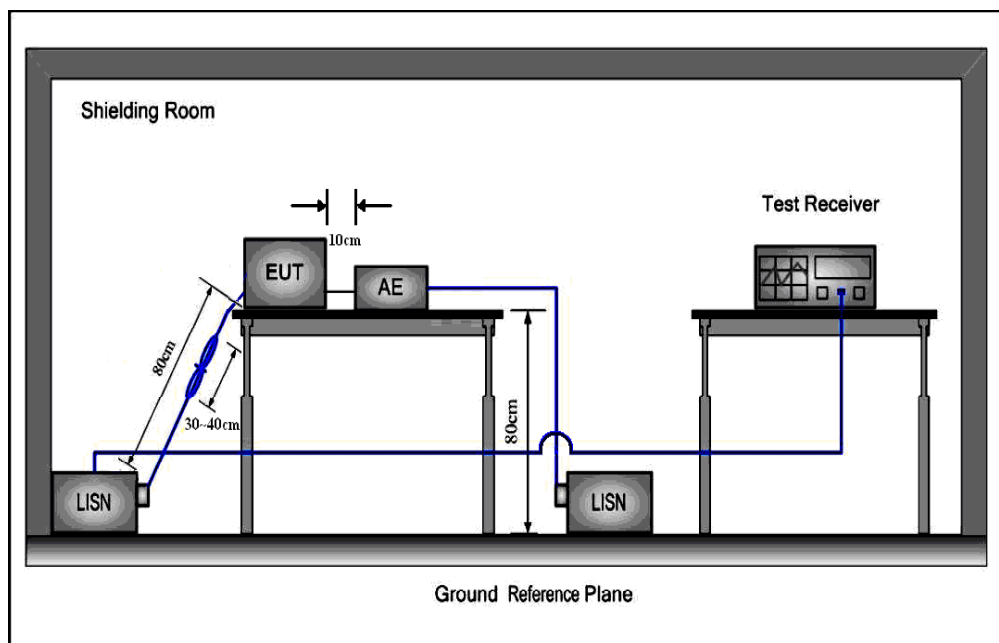
Date of testing : Jun 09 2020 to Jun 12 2020  
 Test procedure : ANSI C63.4:2014  
 Frequency range : 0.15- 30MHz  
 Kind of test site : shielded room  
 Limits : FCC PART 15 Subpart B

Pass

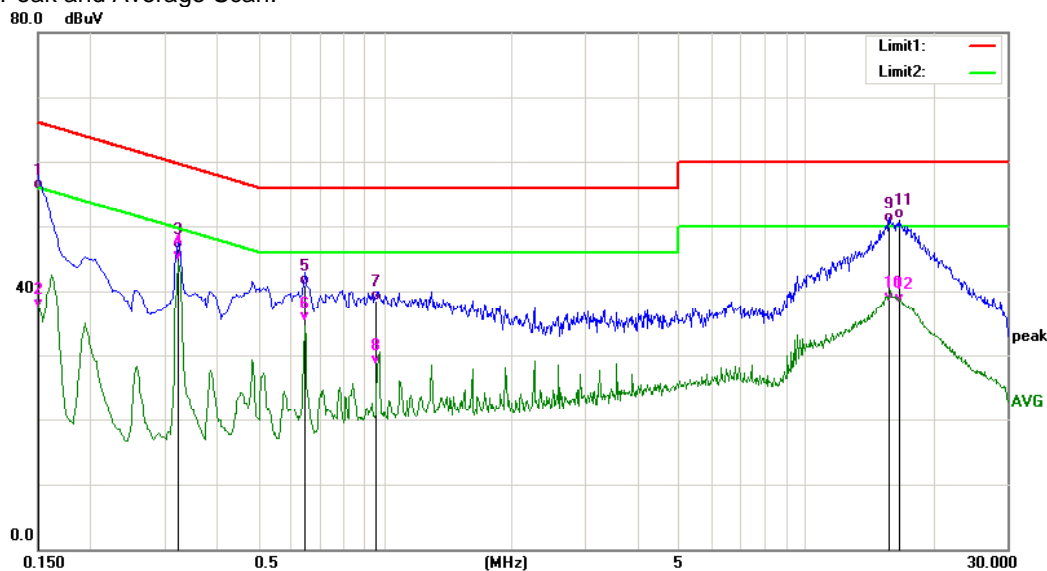
#### Test setup

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

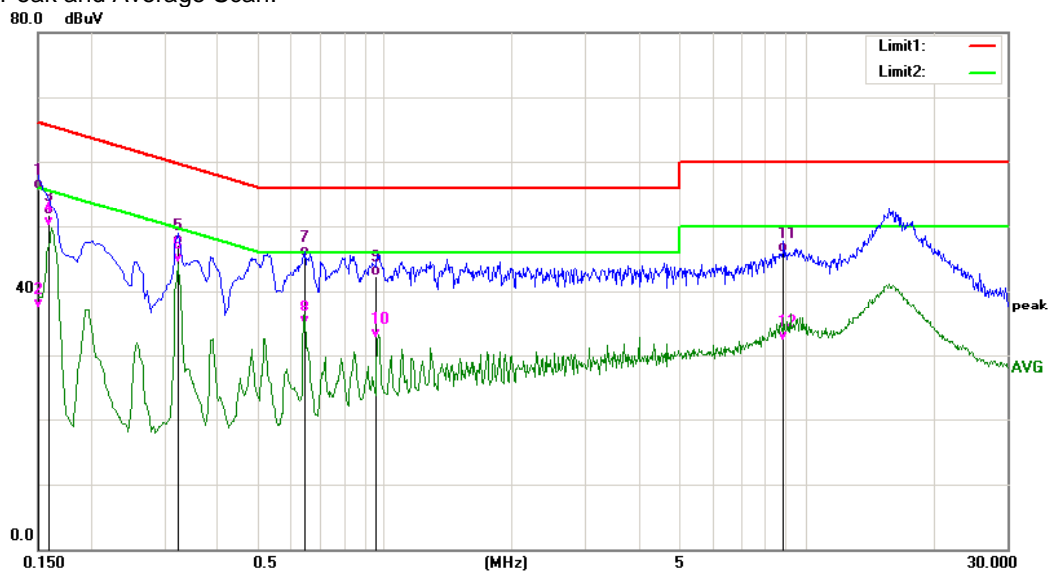
#### Test Connection Diagram



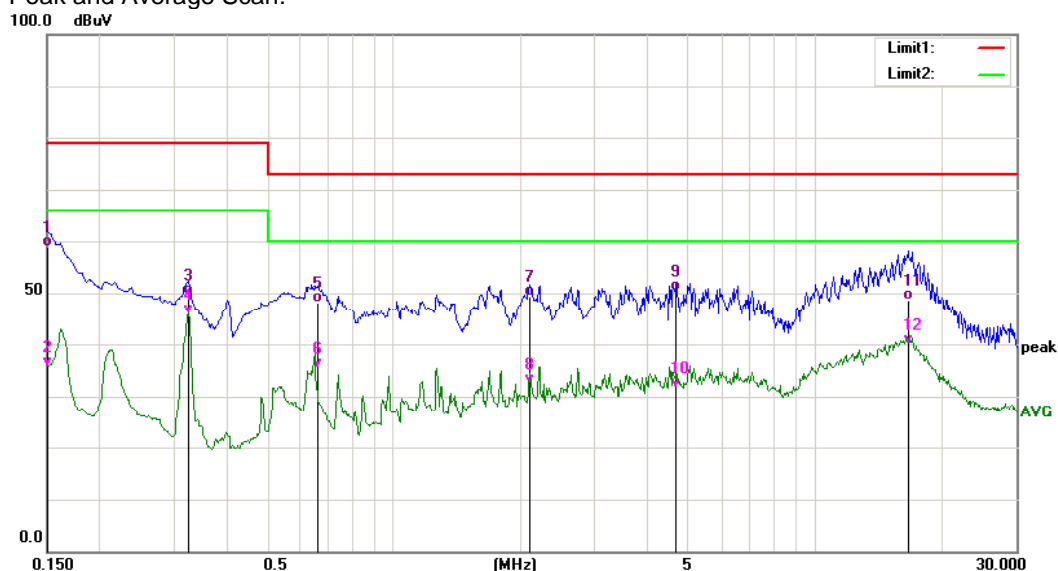


**Test data for model PTB30W-0700-42**
**Power Source :120Vac, 60Hz**
**Terminal under Test: Live Line**
**Fre. Range 150 kHz-30 MHz:**
**IF Bandwidth:9KHz**
**Step Size:4.5 kHz**
**Scan Time:20 ms**
**Final Meas. Time:1 s**
**Peak and Average Scan:**

**Quasi-peak and Average measurement:**

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	46.11	9.65	55.76	65.99	-10.23	QP
2	0.1500	27.62	9.65	37.27	55.99	-18.72	AVG
3	0.3220	36.83	9.69	46.52	59.65	-13.13	QP
4	0.3220	35.02	9.69	44.71	49.65	-4.94	AVG
5	0.6460	31.18	9.72	40.90	56.00	-15.10	QP
6	0.6460	25.32	9.72	35.04	46.00	-10.96	AVG
7	0.9620	28.68	9.74	38.42	56.00	-17.58	QP
8	0.9620	18.73	9.74	28.47	46.00	-17.53	AVG
9	15.7819	40.13	10.34	50.47	60.00	-9.53	QP
10	15.7819	27.92	10.34	38.26	50.00	-11.74	AVG
11	16.7219	40.84	10.35	51.19	60.00	-8.81	QP
12	16.7219	27.79	10.35	38.14	50.00	-11.86	AVG

**Test data for model PTB30W-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	46.08	9.65	55.73	65.99	-10.26	QP
2	0.1500	27.56	9.65	37.21	55.99	-18.78	AVG
3	0.1607	41.97	9.66	51.63	65.42	-13.79	QP
4	0.1607	40.21	9.66	49.87	55.42	-5.55	AVG
5	0.3220	37.50	9.69	47.19	59.65	-12.46	QP
6	0.3220	34.63	9.69	44.32	49.65	-5.33	AVG
7	0.6460	35.51	9.72	45.23	56.00	-10.77	QP
8	0.6460	24.79	9.72	34.51	46.00	-11.49	AVG
9	0.9620	32.54	9.74	42.28	56.00	-13.72	QP
10	0.9620	22.82	9.74	32.56	46.00	-13.44	AVG
11	8.8539	35.65	10.24	45.89	60.00	-14.11	QP
12	8.8539	21.88	10.24	32.12	50.00	-17.88	AVG

**Test data for model PTB30W-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	49.31	9.65	58.96	79.00	-20.04	QP
2	0.1500	25.90	9.65	35.55	66.00	-30.45	AVG
3	0.3260	39.86	9.69	49.55	79.00	-29.45	QP
4	0.3260	36.18	9.69	45.87	66.00	-20.13	AVG
5	0.6540	38.54	9.71	48.25	73.00	-24.75	QP
6	0.6540	25.70	9.71	35.41	60.00	-24.59	AVG
7	2.1100	39.46	9.88	49.34	73.00	-23.66	QP
8	2.1100	22.53	9.88	32.41	60.00	-27.59	AVG
9	4.6859	40.32	10.06	50.38	73.00	-22.62	QP
10	4.6859	21.48	10.06	31.54	60.00	-28.46	AVG
11	16.6060	38.30	10.35	48.65	73.00	-24.35	QP
12	16.6060	29.44	10.35	39.79	60.00	-20.21	AVG

**Test data for model PTB30W-0700-42**
**Power Source :277Vac, 60Hz Terminal under Test: Neutral Line**

Fre. Range 150 kHz-30 MHz:

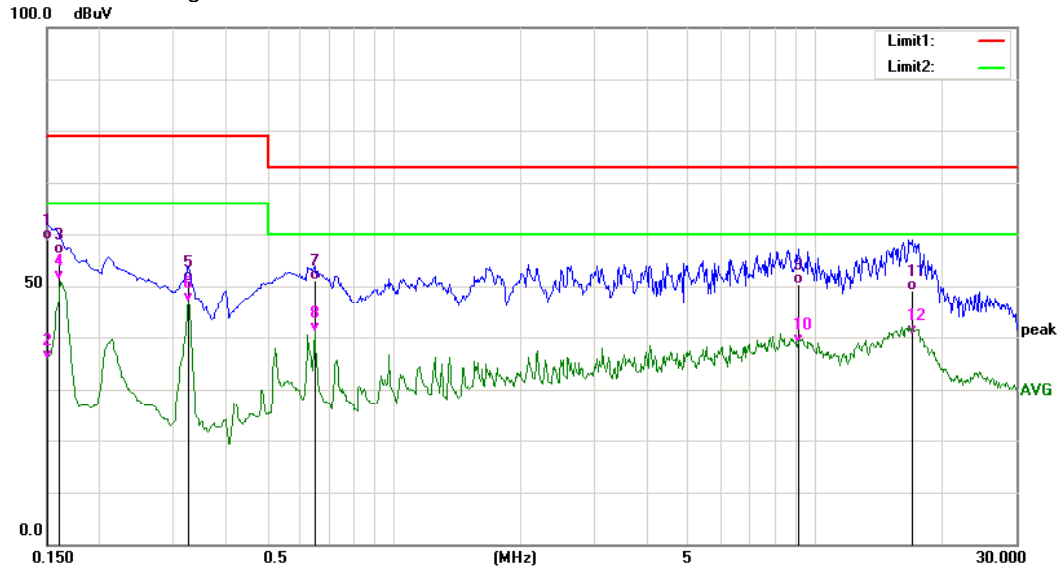
IF Bandwidth:9KHz

Step Size:4.5 kHz

Scan Time:20 ms

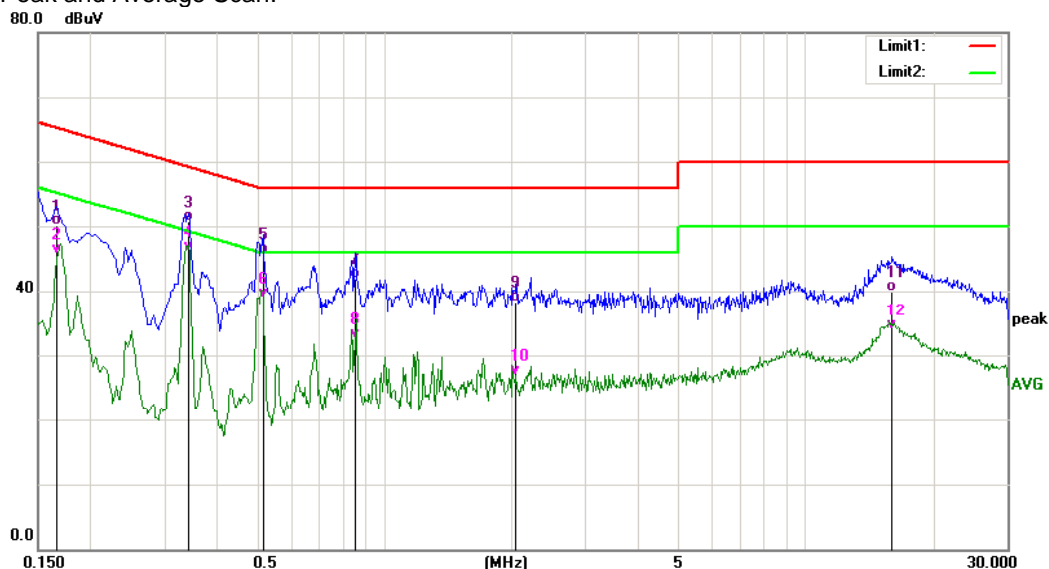
Final Meas. Time:1 s

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	49.30	9.65	58.95	79.00	-20.05	QP
2	0.1500	26.00	9.65	35.65	66.00	-30.35	AVG
3	0.1620	46.52	9.66	56.18	79.00	-22.82	QP
4	0.1620	41.50	9.66	51.16	66.00	-14.84	AVG
5	0.3260	41.22	9.69	50.91	79.00	-28.09	QP
6	0.3260	37.15	9.69	46.84	66.00	-19.16	AVG
7	0.6500	41.53	9.71	51.24	73.00	-21.76	QP
8	0.6500	31.18	9.71	40.89	60.00	-19.11	AVG
9	9.1299	40.20	10.25	50.45	73.00	-22.55	QP
10	9.1299	28.50	10.25	38.75	60.00	-21.25	AVG
11	17.0380	38.83	10.36	49.19	73.00	-23.81	QP
12	17.0380	30.02	10.36	40.38	60.00	-19.62	AVG

**Test data for model PYB30W-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	0.1660	39.82	10.35	50.17	65.16	-14.99	QP
2	0.1660	35.28	10.35	45.63	55.16	-9.53	AVG
3	0.3420	40.42	10.25	50.67	59.15	-8.48	QP
4	0.3420	35.83	10.25	46.08	49.15	-3.07	AVG
5	0.5140	35.43	10.26	45.69	56.00	-10.31	QP
6	0.5140	28.56	10.26	38.82	46.00	-7.18	AVG
7	0.8500	31.66	10.29	41.95	56.00	-14.05	QP
8	0.8500	22.24	10.29	32.53	46.00	-13.47	AVG
9	2.0500	27.99	10.32	38.31	56.00	-17.69	QP
10	2.0500	16.60	10.32	26.92	46.00	-19.08	AVG
11	16.0220	29.46	10.40	39.86	60.00	-20.14	QP
12	16.0220	23.52	10.40	33.92	50.00	-16.08	AVG

**Test data for model PYB30W-0700-42**

**Power Source :120Vac, 60Hz Terminal under Test: Neutral Line**

Fre. Range 150 kHz-30 MHz:

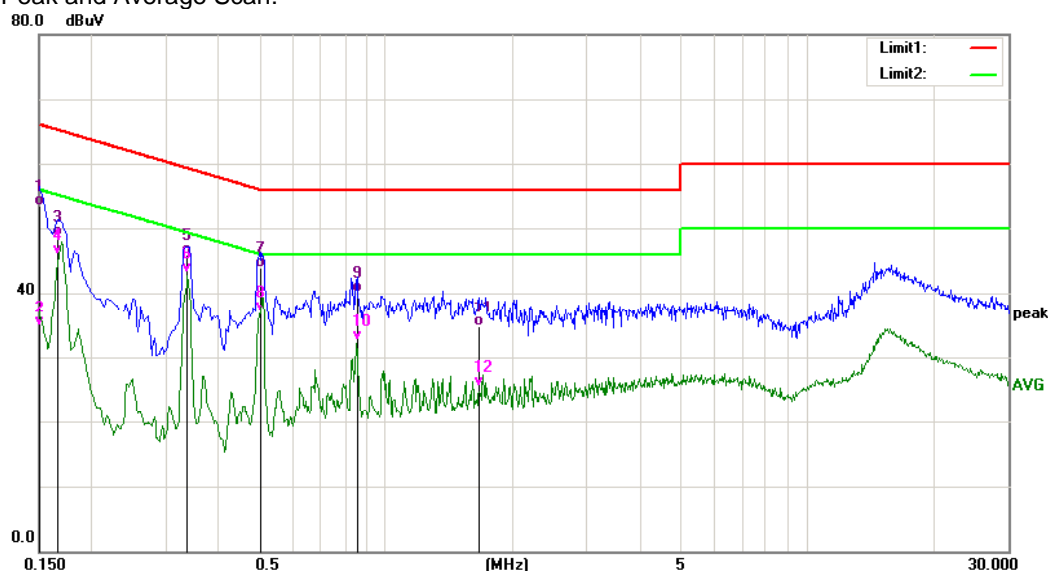
IF Bandwidth:9KHz

Step Size:4.5 kHz

Scan Time:20 ms

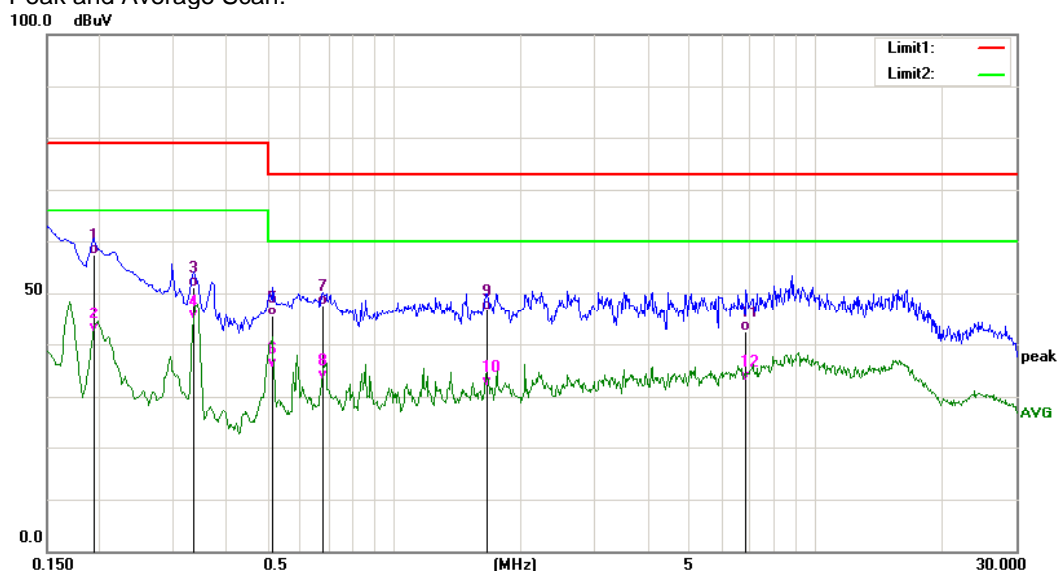
Final Meas. Time:1 s

Peak and Average Scan:

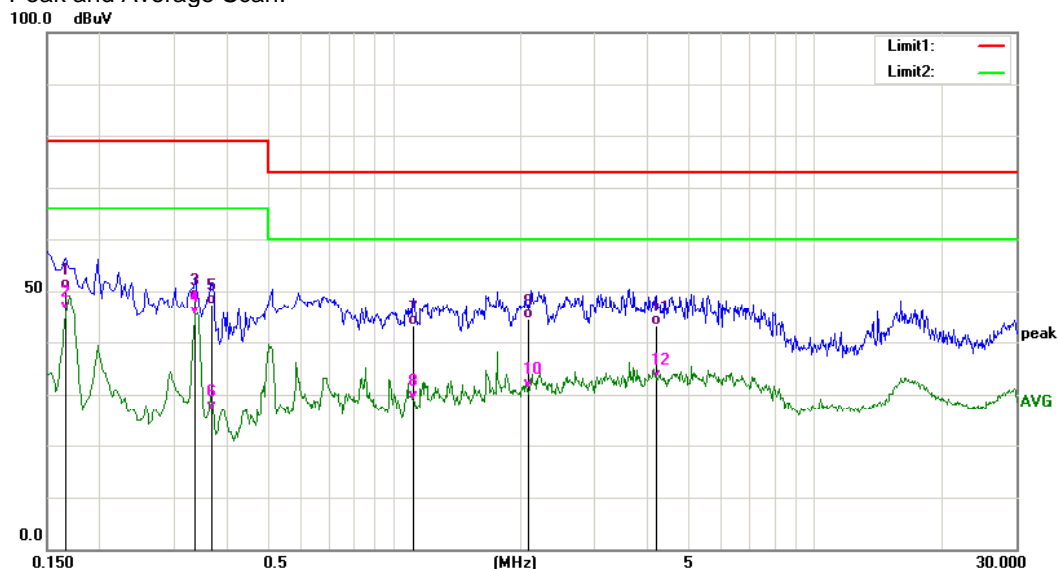


Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	43.16	10.37	53.53	66.00	-12.47	QP
2	0.1500	24.25	10.37	34.62	56.00	-21.38	AVG
3	0.1660	38.35	10.35	48.70	65.16	-16.46	QP
4	0.1660	35.59	10.35	45.94	55.16	-9.22	AVG
5	0.3380	35.61	10.25	45.86	59.25	-13.39	QP
6	0.3380	32.92	10.25	43.17	49.25	-6.08	AVG
7	0.5020	33.64	10.26	43.90	56.00	-12.10	QP
8	0.5020	26.90	10.26	37.16	46.00	-8.84	AVG
9	0.8540	29.75	10.29	40.04	56.00	-15.96	QP
10	0.8540	22.14	10.29	32.43	46.00	-13.57	AVG
11	1.6660	24.45	10.31	34.76	56.00	-21.24	QP
12	1.6660	15.20	10.31	25.51	46.00	-20.49	AVG

**Test data for model PYB30W-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	0.1940	47.09	10.32	57.41	79.00	-21.59	QP
2	0.1940	31.72	10.32	42.04	66.00	-23.96	AVG
3	0.3340	40.77	10.26	51.03	79.00	-27.97	QP
4	0.3340	34.42	10.26	44.68	66.00	-21.32	AVG
5	0.5180	35.09	10.26	45.35	73.00	-27.65	QP
6	0.5180	25.03	10.26	35.29	60.00	-24.71	AVG
7	0.6780	37.46	10.28	47.74	73.00	-25.26	QP
8	0.6780	22.80	10.28	33.08	60.00	-26.92	AVG
9	1.6700	36.25	10.31	46.56	73.00	-26.44	QP
10	1.6700	21.59	10.31	31.90	60.00	-28.10	AVG
11	6.8580	31.82	10.44	42.26	73.00	-30.74	QP
12	6.8580	22.41	10.44	32.85	60.00	-27.15	AVG

**Test data for model PYB30W-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	0.1660	40.11	10.35	50.46	79.00	-28.54	QP
2	0.1660	35.77	10.35	46.12	66.00	-19.88	AVG
3	0.3380	38.23	10.25	48.48	79.00	-30.52	QP
4	0.3380	34.98	10.25	45.23	66.00	-20.77	AVG
5	0.3700	37.18	10.24	47.42	79.00	-31.58	QP
6	0.3700	16.56	10.24	26.80	66.00	-39.20	AVG
7	1.1140	32.93	10.29	43.22	73.00	-29.78	QP
8	1.1140	18.51	10.29	28.80	60.00	-31.20	AVG
9	2.1140	34.02	10.33	44.35	73.00	-28.65	QP
10	2.1140	20.74	10.33	31.07	60.00	-28.93	AVG
11	4.2180	32.77	10.41	43.18	73.00	-29.82	QP
12	4.2180	22.50	10.41	32.91	60.00	-27.09	AVG



## 5.2 Radiated Emission

### Results:

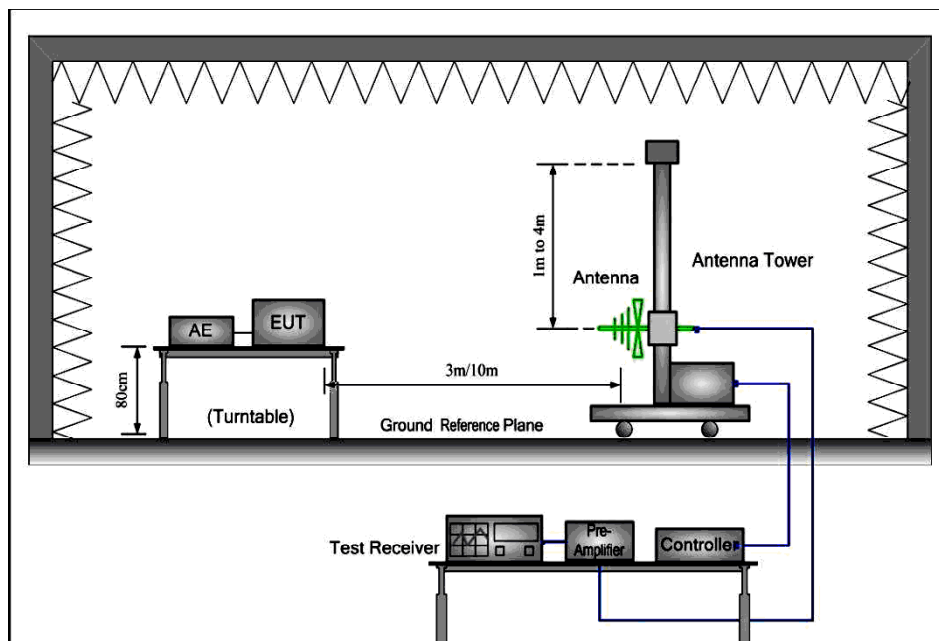
**Pass**

Date of testing : Jun 09 2020 to Jun 12 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 PTB30W-0700-42**
**Power Source :120Vac, 60Hz**

Polarization: Horizontal

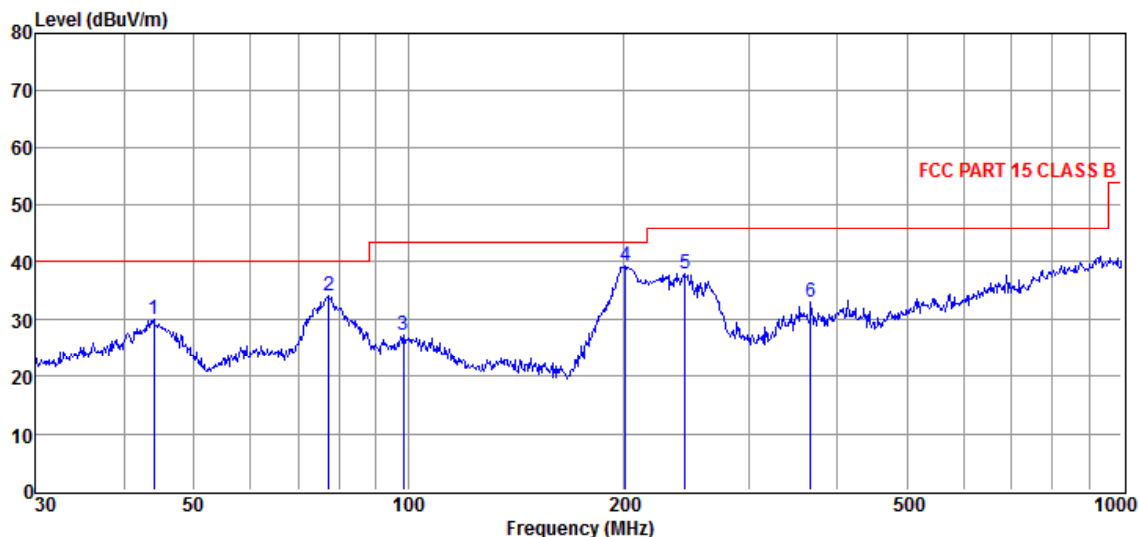
Fre. Range:30 MHz-1000 MHz:

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	43.97	12.56	16.77	0.00	0.55	29.88	40.00	-10.12	Peak	HORIZONTAL
2	77.32	26.72	6.65	0.00	0.74	34.11	40.00	-5.89	Peak	HORIZONTAL
3	98.49	15.17	11.23	0.00	0.84	27.24	43.50	-16.26	Peak	HORIZONTAL
4	201.39	28.33	9.58	0.00	1.32	39.23	43.50	-4.27	Peak	HORIZONTAL
5	244.23	24.83	11.68	0.00	1.48	37.99	46.00	-8.01	Peak	HORIZONTAL
6	366.82	16.56	14.41	0.00	2.00	32.97	46.00	-13.03	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 PTB30W-0700-42**
**Power Source :120Vac, 60Hz**

Polarization: Vertical

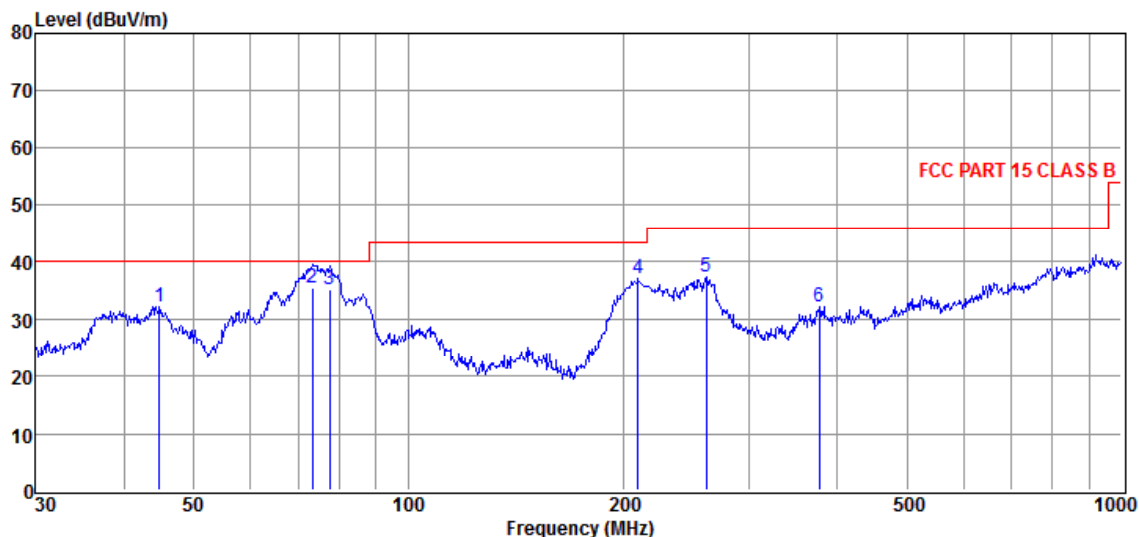
Fre. Range:30 MHz-1000 MHz:

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	44.74	15.33	16.42	0.00	0.55	32.30	40.00	-7.70	Peak	VERTICAL
2	73.36	27.64	6.98	0.00	0.72	35.34	40.00	-4.66	QP	VERTICAL
3	77.59	27.92	6.65	0.00	0.75	35.32	40.00	-4.68	QP	VERTICAL
4	210.05	26.12	9.60	0.00	1.35	37.07	43.50	-6.43	Peak	VERTICAL
5	261.98	23.47	12.32	0.00	1.55	37.34	46.00	-8.66	Peak	VERTICAL
6	377.26	15.11	15.08	0.00	2.04	32.23	46.00	-13.77	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 PTB30W-0700-42**
**Power Source :277Vac, 60Hz**

Polarization: Horizontal

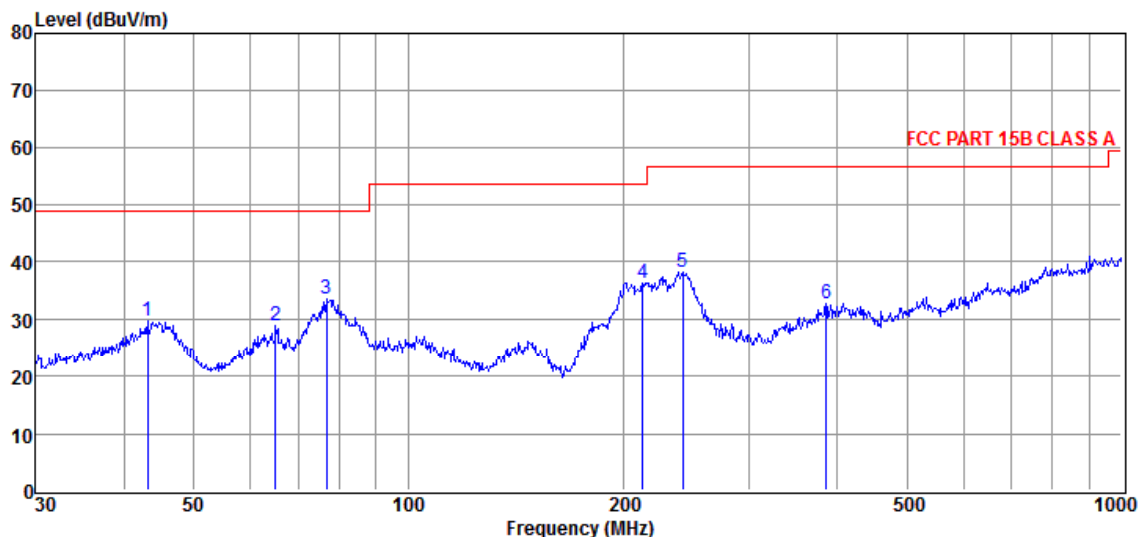
Fre. Range:30 MHz-1000 MHz:

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	43.05	13.01	16.10	0.00	0.54	29.65	49.00	-19.35	Peak	HORIZONTAL
2	65.11	18.85	9.46	0.00	0.68	28.99	49.00	-20.01	Peak	HORIZONTAL
3	76.78	26.24	6.64	0.00	0.74	33.62	49.00	-15.38	Peak	HORIZONTAL
4	213.02	25.23	9.66	0.00	1.36	36.25	53.50	-17.25	Peak	HORIZONTAL
5	242.53	25.13	11.65	0.00	1.47	38.25	56.50	-18.25	Peak	HORIZONTAL
6	385.28	15.14	15.41	0.00	2.08	32.63	56.50	-23.87	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 PTB30W-0700-42**
**Power Source :277Vac, 60Hz**

Polarization: Vertical

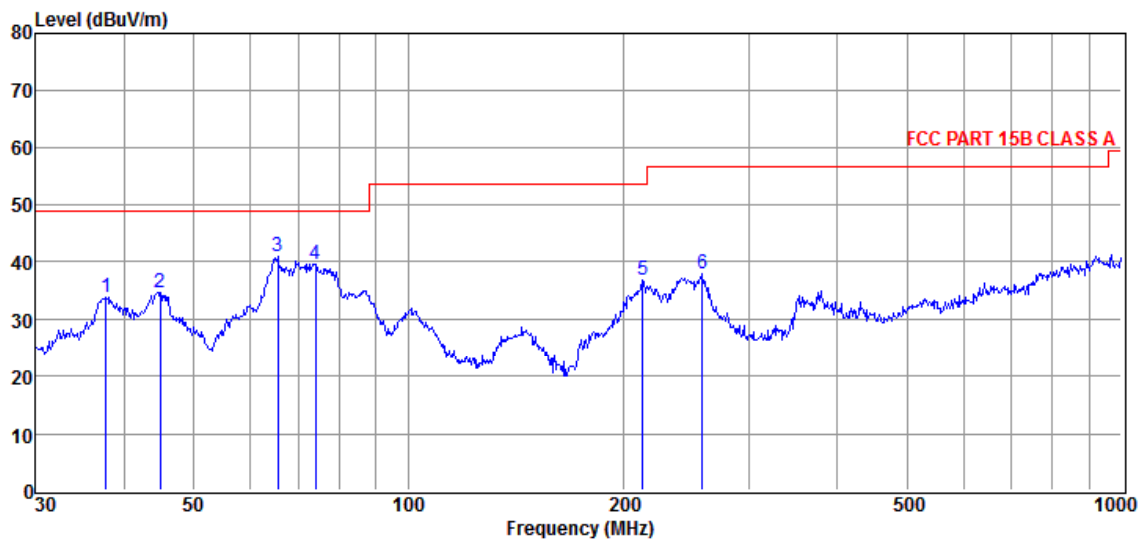
Fre. Range:30 MHz-1000 MHz:

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	37.68	21.30	12.14	0.00	0.50	33.94	49.00	-15.06	Peak	VERTICAL
2	44.90	17.72	16.34	0.00	0.55	34.61	49.00	-14.39	Peak	VERTICAL
3	65.57	30.94	9.30	0.00	0.68	40.92	49.00	-8.08	Peak	VERTICAL
4	74.14	32.18	6.80	0.00	0.72	39.70	49.00	-9.30	Peak	VERTICAL
5	213.02	25.70	9.66	0.00	1.36	36.72	53.50	-16.78	Peak	VERTICAL
6	258.33	24.11	12.27	0.00	1.54	37.92	56.50	-18.58	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 PYB30W-0700-42**
**Power Source :120Vac, 60Hz**

Polarization: Horizontal

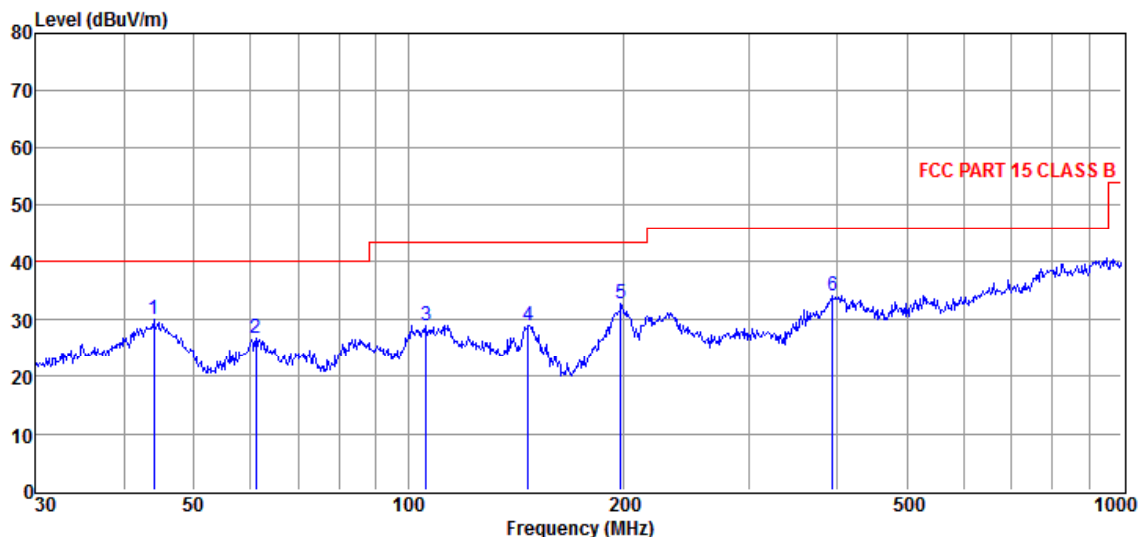
Fre. Range:30 MHz-1000 MHz:

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	43.97	12.54	16.77	0.00	0.55	29.86	40.00	-10.14	Peak	HORIZONTAL
2	61.13	15.12	10.80	0.00	0.66	26.58	40.00	-13.42	Peak	HORIZONTAL
3	106.01	15.93	12.10	0.00	0.88	28.91	43.50	-14.59	Peak	HORIZONTAL
4	147.40	20.05	7.80	0.00	1.07	28.92	43.50	-14.58	Peak	HORIZONTAL
5	198.59	21.78	9.53	0.00	1.30	32.61	43.50	-10.89	Peak	HORIZONTAL
6	393.47	16.50	15.61	0.00	2.11	34.22	46.00	-11.78	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 PYB30W-0700-42**
**Power Source :120Vac, 60Hz**

Polarization: Vertical

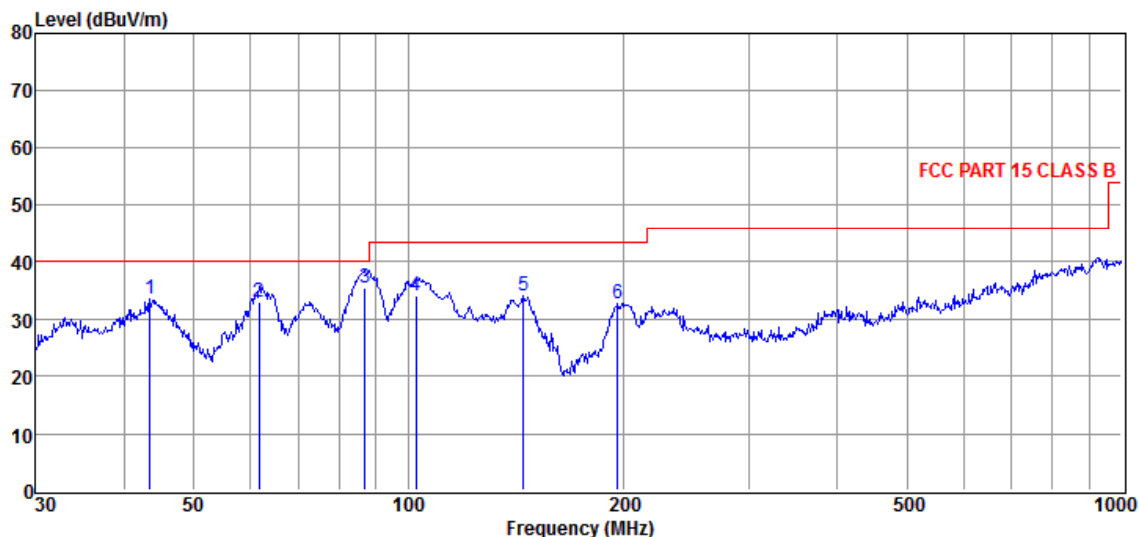
Fre. Range:30 MHz-1000 MHz:

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	43.35	16.70	16.32	0.00	0.54	33.56	40.00	-6.44	Peak	VERTICAL
2	61.78	21.62	10.58	0.00	0.66	32.86	40.00	-7.14	QP	VERTICAL
3	86.81	26.14	8.43	0.00	0.79	35.36	40.00	-4.64	QP	VERTICAL
4	102.36	21.43	11.83	0.00	0.86	34.12	43.50	-9.38	QP	VERTICAL
5	144.84	25.18	7.80	0.00	1.06	34.04	43.50	-9.46	Peak	VERTICAL
6	196.51	21.97	9.57	0.00	1.29	32.83	43.50	-10.67	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 PYB30W-0700-42**
**Power Source :277Vac, 60Hz**

Polarization: Horizontal

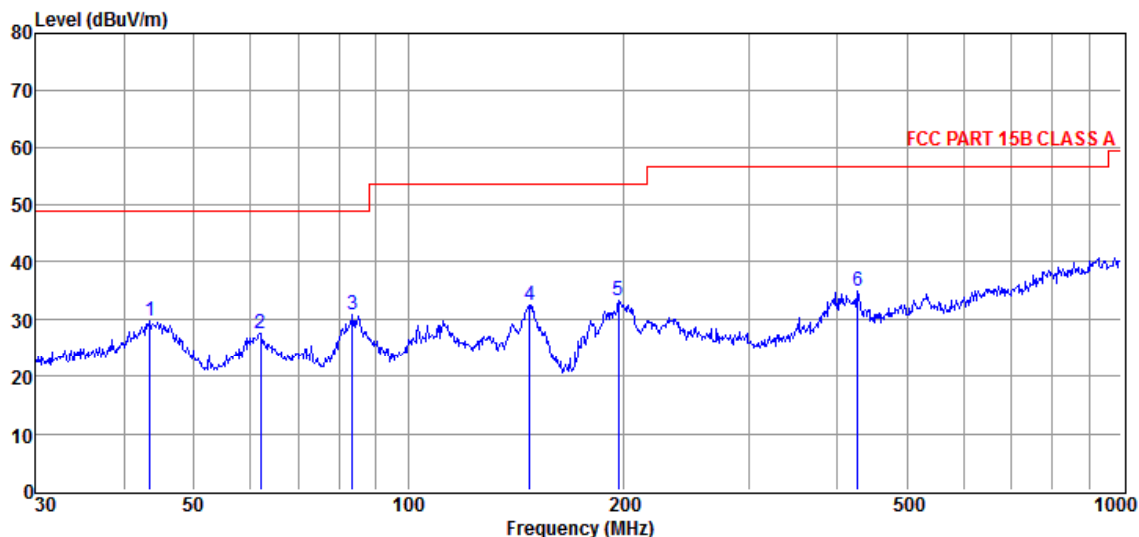
Fre. Range:30 MHz-1000 MHz:

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	43.35	12.94	16.32	0.00	0.54	29.80	49.00	-19.20	Peak	HORIZONTAL
2	62.00	16.33	10.51	0.00	0.66	27.50	49.00	-21.50	Peak	HORIZONTAL
3	83.52	22.30	7.61	0.00	0.77	30.68	49.00	-18.32	Peak	HORIZONTAL
4	147.92	23.50	7.80	0.00	1.07	32.37	53.50	-21.13	Peak	HORIZONTAL
5	197.20	22.41	9.56	0.00	1.30	33.27	53.50	-20.23	Peak	HORIZONTAL
6	426.52	17.06	15.57	0.00	2.27	34.90	56.50	-21.60	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 PYB30W-0700-42**
**Power Source :277Vac, 60Hz**

Polarization: Vertical

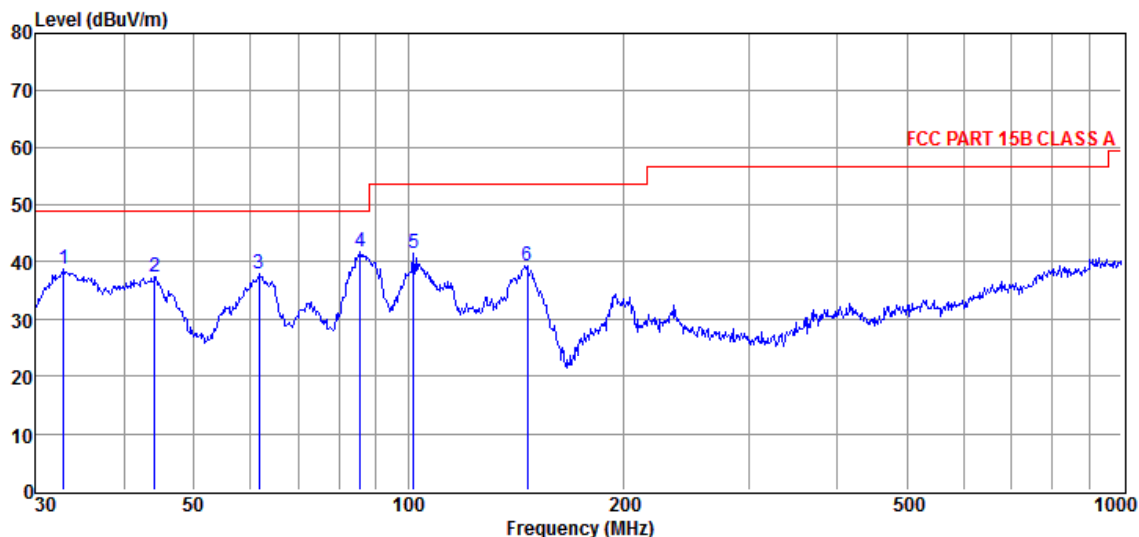
Fre. Range:30 MHz-1000 MHz:

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	32.86	27.32	10.90	0.00	0.47	38.69	49.00	-10.31	Peak	VERTICAL
2	44.12	20.21	16.74	0.00	0.55	37.50	49.00	-11.50	Peak	VERTICAL
3	61.78	26.65	10.58	0.00	0.66	37.89	49.00	-11.11	Peak	VERTICAL
4	85.60	32.79	8.14	0.00	0.78	41.71	49.00	-7.29	Peak	VERTICAL
5	101.64	28.81	11.73	0.00	0.86	41.40	53.50	-12.10	Peak	VERTICAL
6	146.89	30.43	7.80	0.00	1.07	39.30	53.50	-14.20	Peak	VERTICAL

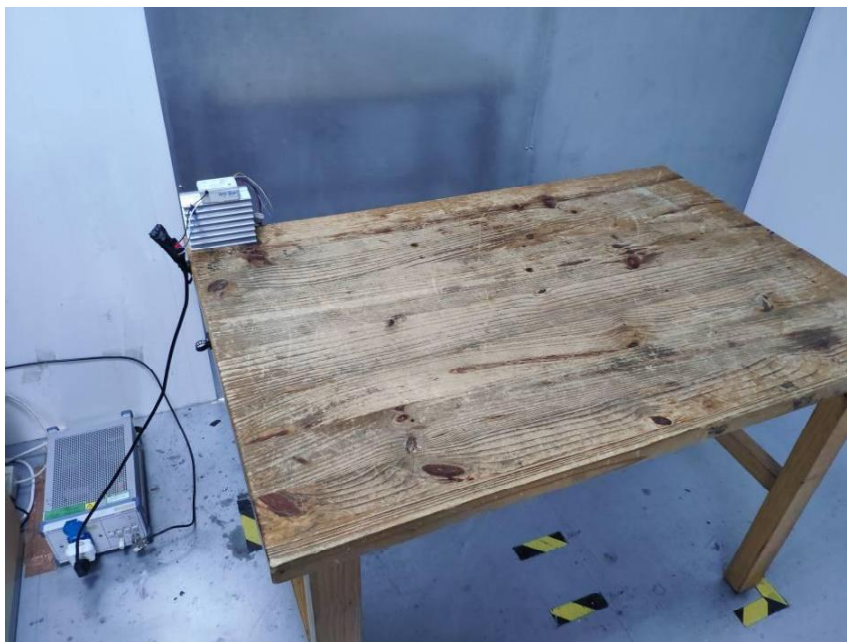
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

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

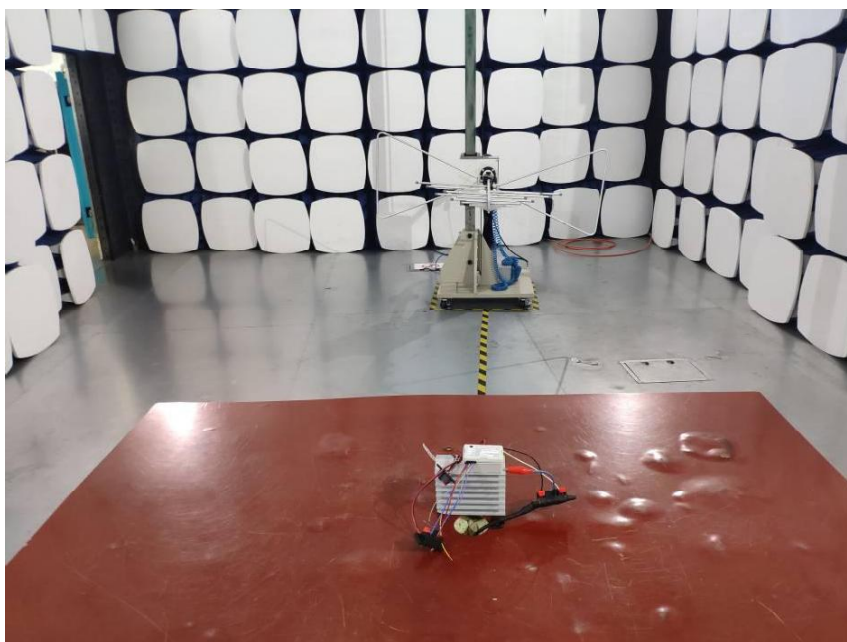
3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

## The photos of test setting

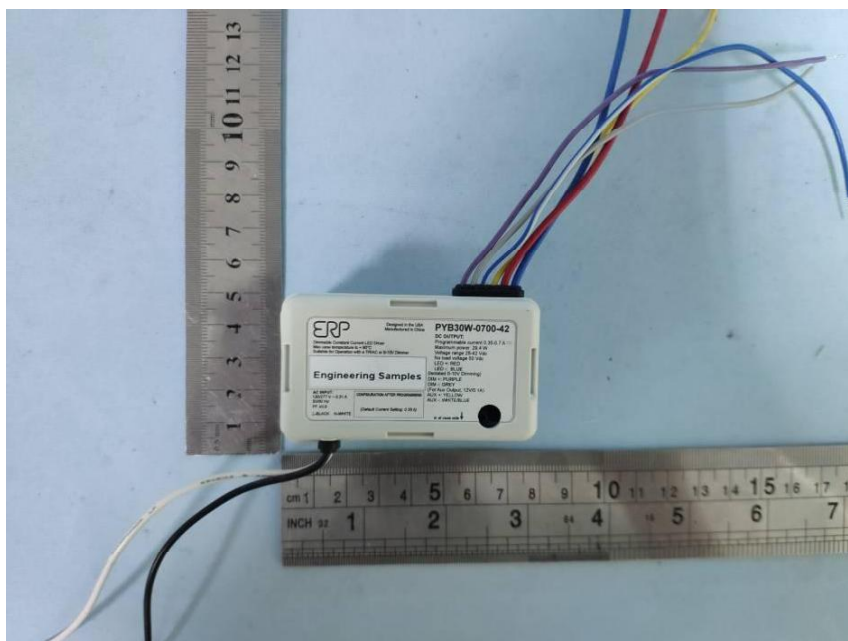
Terminal Continuous Disturbance Voltage:



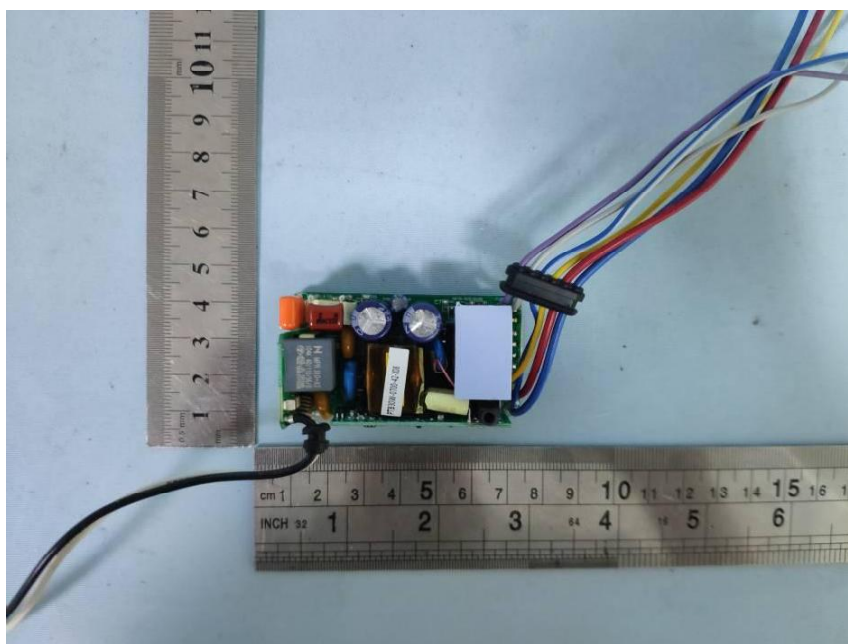
Radiated Emission:



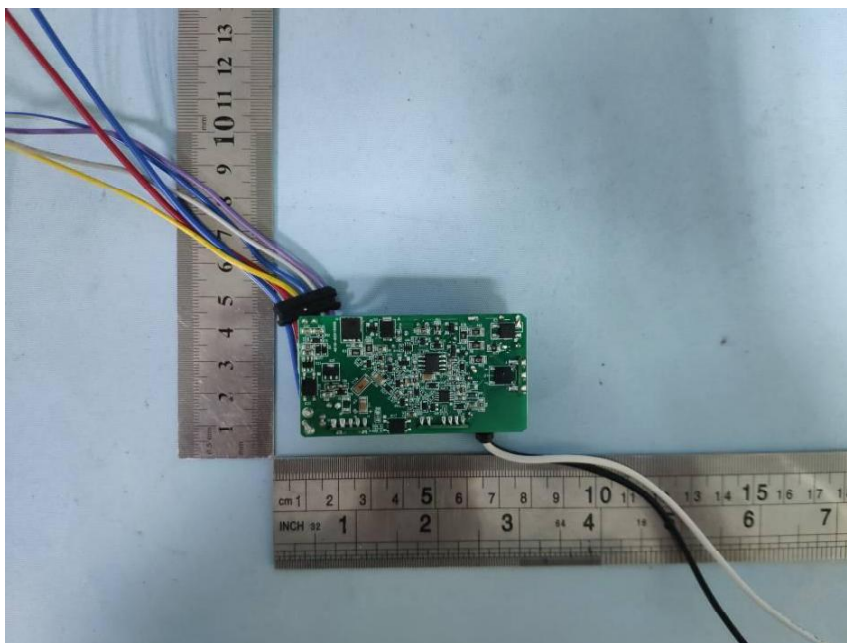
## 6 The photos of EUT



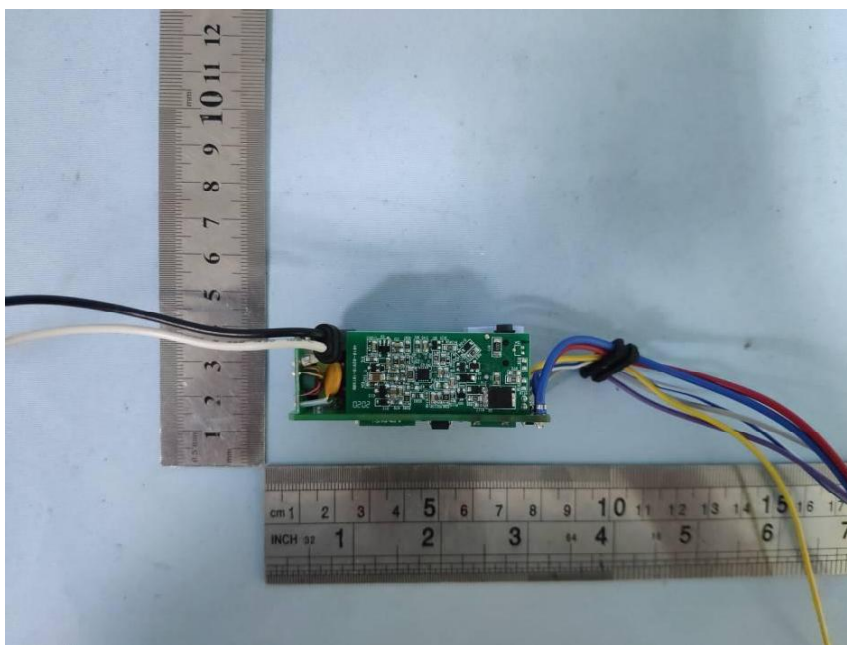
Picture 1



Picture 2



Picture 3



Picture 4

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