



# FCC TEST REPORT

## FCC ID: 2A23GTS961R

for

**Product: Outdoor Plug-in Photocell Timer with Remote**

**Model: TS961R, MP42T**

**Trade mark: N/A**

**Report No.: PTC22080301002E-FC01**

Issued for

**Dongguan Newone Trading Co., Ltd**

**Jinlian commercial center 9001, Jinxiu road No.273, Changan  
Town, Dongguan City, GuangDongProv., CHINA**

Issued by

**Precise Testing & Certification Co., Ltd.**

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## 1. TEST CERTIFICATION

Product:	Outdoor Plug-in Photocell Timer with Remote
Model:	TS961R,MP42T
Applicant :	Dongguan Newone Trading Co., Ltd
Address:	Jinlian commercial center 1001, Jinxiu road No.273, Changan Town, Dongguan City, GuangDongProv., CHINA
Manufacturer:	Dongguan Newone Trading Co., Ltd
Address:	Jinlian commercial center 1001, Jinxiu road No.273, Changan Town, Dongguan City, GuangDongProv., CHINA
Test Date:	Aug. 11, 2022 to Aug. 17, 2022
Issued Date:	Aug. 20, 2022
Test Voltage:	AC 120V/60Hz
Applicable Standards:	FCC Part 15, Subpart B Class B ANSI C63.4:2014

The above equipment has been tested by Precise Testing & Certification Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Test Engineer:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Ronnie Liu'.

Ronnie Liu / Manager



## 2. TEST SUMMARY

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Class B	Conducted Emission (Main Port)	PASS	Complied with limit
	Radiated Emission	PASS	Complied with limit

Note: 1) The test result verdict is decided by the limit of test standard.

2) The information of measurement uncertainty is available upon the customer's request.



### 3. TEST SITE

#### 3.1. TEST FACILITY

Precise Testing & Certification Co., Ltd.

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.

- ☆ CNAS Registration No.: CNAS L5772
- ☆ FCC Registration No.: 790290
- ☆ A2LA Certificate No.: 4408.01
- ☆ IC Registration No.: 12191A

#### 3.2. MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
Temperature	±1° C
Humidity	±5%
DC and Low Frequency Voltages	±3%
Conducted Emission(150KHz-30MHz)	±3.60dB
Radiated Emission(30MHz-1GHz)	±4.76dB
Radiated Emission (1GHz-18GHz)	±4.44dB

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3.3. LIST OF TEST AND MEASUREMENT INSTRUMENTS

#### 3.3.1. For conducted emission at the mains terminals test

Name of Equipment	Manufacturer	Model	Serial No.	Calibration Due	Calibration cycle
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 18, 2022	1 year
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	Aug. 22, 2022	1 year
ISN	SCHWARZBEC K	NTFM8131	00257	Aug. 22, 2022	1 year
Test S/W	Tonscend	JS32-CE/4.0.0.3			

#### 3.3.2. For radiated emission test (30MHz-1GHz)

Name of Equipment	Manufacturer	Model	Serial No.	Calibration Due	Calibration cycle
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 18, 2022	1 year
Bilog Antenna	SCHWARZBEC K	VULB 9160	9160-3355	Aug. 19, 2022	1 year
Preamplifier (low frequency)	SCHWARZBEC K	BBV 9475	9745-0013	Aug. 22, 2022	1 year
Test S/W	Tonscend	JS32-RE/4.0.0.0			

#### 3.3.3. For radiated emission test (1GHz above)



Name of Equipment	Manufacturer	Model	Serial No.	Calibration Due	Calibration cycle
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 18, 2022	1 year
Spectrum Analyzer	Agilent	E4407B	MY4510957 2	Aug. 28, 2022	1 year
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	Aug. 19, 2022	1 year
High NOISE AMPLIFIER	ZHINAN	ZN3380C	15002	Aug. 18, 2022	1 year
Test S/W	Tonscend			JS32-RE/4.0.0.0	



## 4. EUT DESCRIPTION

<b>Product</b>	Outdoor Plug-in Photocell Timer with Remote
<b>Model</b>	TS961R, MP42T
<b>Supplied Voltage</b>	AC125V 60Hz
<b>Power</b>	N/A

### I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
AC Port	3	<input checked="" type="checkbox"/>
DC Port	1	<input type="checkbox"/>

### Models Difference

Only the model name is different, the rest are the same.

## 5. TEST METHODOLOGY

### 5.1. TEST MODE

The EUT was tested together with the thereinafter additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The following test mode(s) were assessed.

Test Items		Test Mode
Emission	Conducted Emission	Working
	Radiated Emission	Working

### 5.2. EUT SYSTEM OPERATION

1. Set up EUT with the support equipment.
2. Make sure the EUT work normally during the test.

## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1. DESCRIPTION OF SUPPORT UNITS

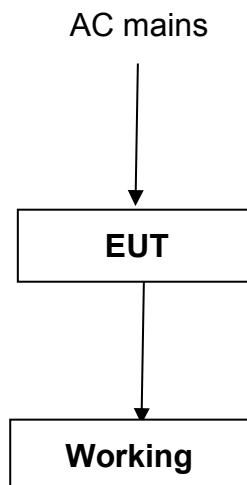
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model	Serial No.	Trade Name
1.	N/A	N/A	N/A	N/A

Note: 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 6.2. CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Outdoor Plug-in Photocell Timer with Remote)



## 7. CONDUCTED EMISSION MEASUREMENT

### 7.1. LIMITS

FREQUENCY (MHz)	Class A		Class B	
	Quasi-peak dB(µV)	Average dB(µV)	Quasi-peak dB(µV)	Average dB(µV)
0.15 - 0.5	79	66	66-56	56-46
0.5 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: 1) The lower limit shall apply at the transition frequencies.

2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 7.2. TEST PROCEDURES

The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane. When the EUT is floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane. The EUT should be 0.8 m apart from the AMN, where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m. Details please refer to test setup photography.

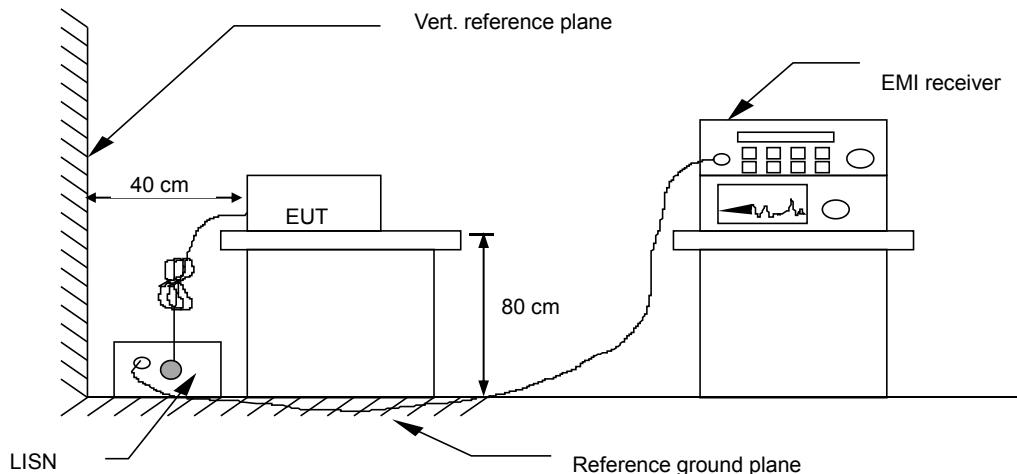
The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

A scan was taken on both of the power lines, Line and neutral, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

Note: Test Software Name: e3, Software Version: 1.0.0.0.

### 7.3. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 7.4. TEST RESULT

<b>Product name</b>	Outdoor Plug-in Photocell Timer with Remote	<b>Tested By</b>	Mr zhou
<b>Model</b>	TS961R	<b>Detector Function</b>	Peak / Quasi-peak/AV
<b>Test Mode</b>	Working	<b>6 dB Bandwidth</b>	9 kHz
<b>Environmental Conditions</b>	25°C, 60% RH, 101.2 kPa	<b>Test Result</b>	Pass

Note:

L = Line Line, N = Neutral Line

Freq. = Emission frequency in MHz

Reading level (dB $\mu$ V) = Receiver reading

Corr. Factor (dB) = attenuator + Cable loss

Level (dB $\mu$ V) = Reading level (dB $\mu$ V) + Corr. Factor (dB)

Limit (dB $\mu$ V) = Limit stated in standard

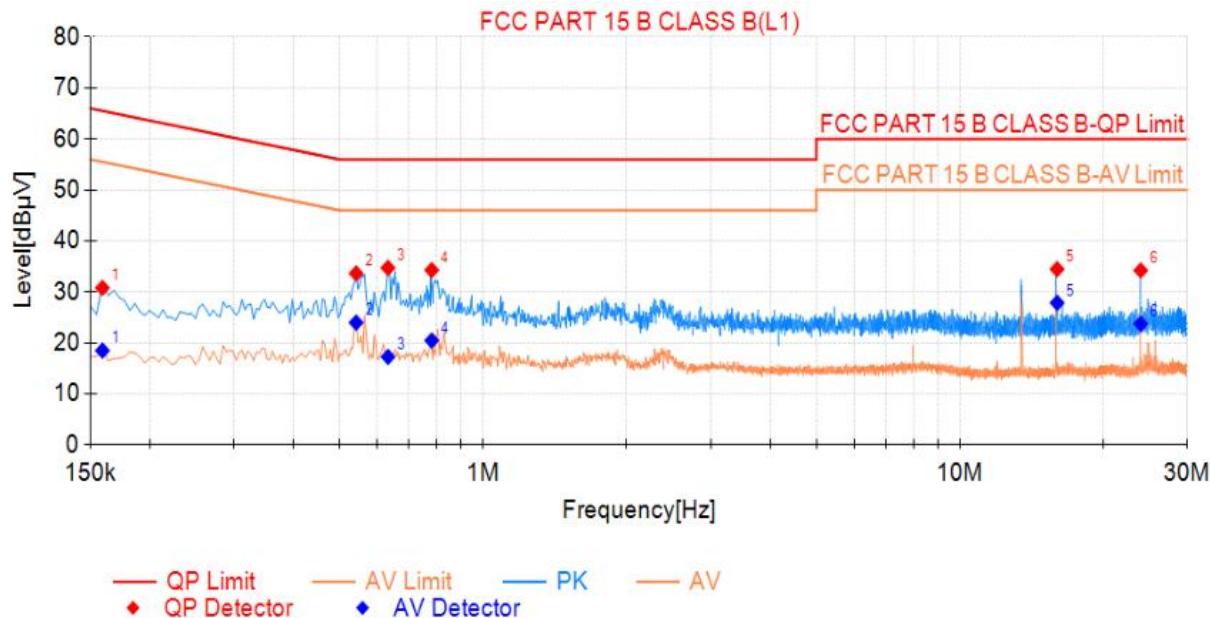
Over Limit (dB) = Level (dB $\mu$ V) – Limit (dB $\mu$ V)

QP = Quasi-Peak

AV = Average

Please refer to the following diagram:

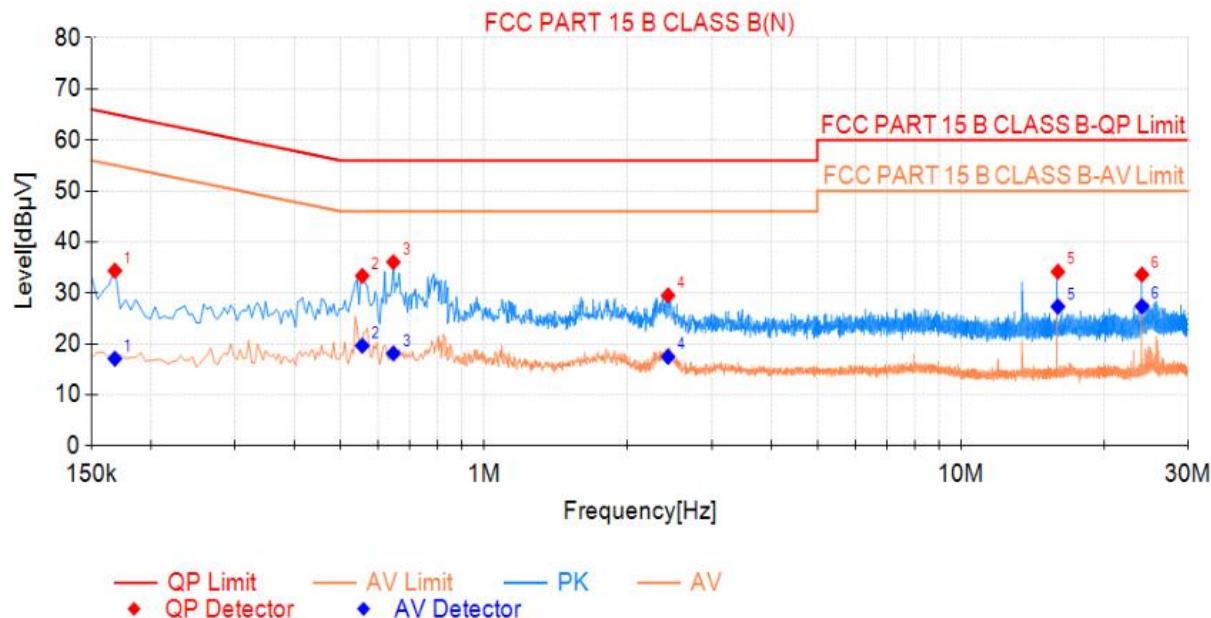
Line:



#### Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.168	34.36	65.06	30.70	17.11	55.06	37.95	PASS
2	0.555	33.36	56.00	22.64	19.66	46.00	26.34	PASS
3	0.645	36.05	56.00	19.95	18.15	46.00	27.85	PASS
4	2.432	29.53	56.00	26.47	17.47	46.00	28.53	PASS
5	15.981	34.16	60.00	25.84	27.33	50.00	22.67	PASS
6	23.982	33.60	60.00	26.40	27.38	50.00	22.62	PASS

Neutral:



Final Data List								
NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.168	34.36	65.06	30.70	17.11	55.06	37.95	PASS
2	0.555	33.36	56.00	22.64	19.66	46.00	26.34	PASS
3	0.645	36.05	56.00	19.95	18.15	46.00	27.85	PASS
4	2.432	29.53	56.00	26.47	17.47	46.00	28.53	PASS
5	15.981	34.16	60.00	25.84	27.33	50.00	22.67	PASS
6	23.982	33.60	60.00	26.40	27.38	50.00	22.62	PASS



## 8. RADIATED EMISSION MEASUREMENT

### 8.1. LIMITS

Maximum permissible level of Radiated Emission measured at 3 meter distance.

FREQUENCY (MHz)	dB $\mu$ V/m (At 3m)	
	Class A digital device	Class B digital device
30~88	49.00	40.00
88~216	53.50	43.50
216~960	56.40	46.00
960~1000	59.50	54.00

Note: 1) The lower limit shall apply at the transition frequencies.

2) Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).

Requirements for radiated emissions at frequencies above 1 GHz for class A&B equipment

FREQUENCY (MHz)	dB $\mu$ V/m (At 3m)		
	Detector type/ bandwidth	Class A digital device	Class B digital device
Above 1000	Average/ 1 MHz	60	54
Above 1000	Peak/ 1 MHz	80	74

Note: 1) An FSOATS may be a SAC/OATS with RF absorber on the RGP or a FAR.



## 8.2. TEST PROCEDURE

The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is floor standing equipment, it is placed on the ground plane which has a 0.1 m non-conductive covering to insulate the EUT from the ground plane.

The antenna was placed at 3 meter away from the EUT. The antenna connected to the spectrum analyzer via a cable and at times a pre-amplifier would be used.

The analyzer / receiver quickly scanned from 30 MHz to 5000 MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

During the above scans, the emissions were maximized by cable manipulation. Each mode is measured, recorded at least the six highest emissions. The emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

The test data of the worst-case condition(s) was recorded.

Note: Test Software Name: e3, Software Version: 8.2.1.0.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:



RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

### 8.3. TEST SETUP

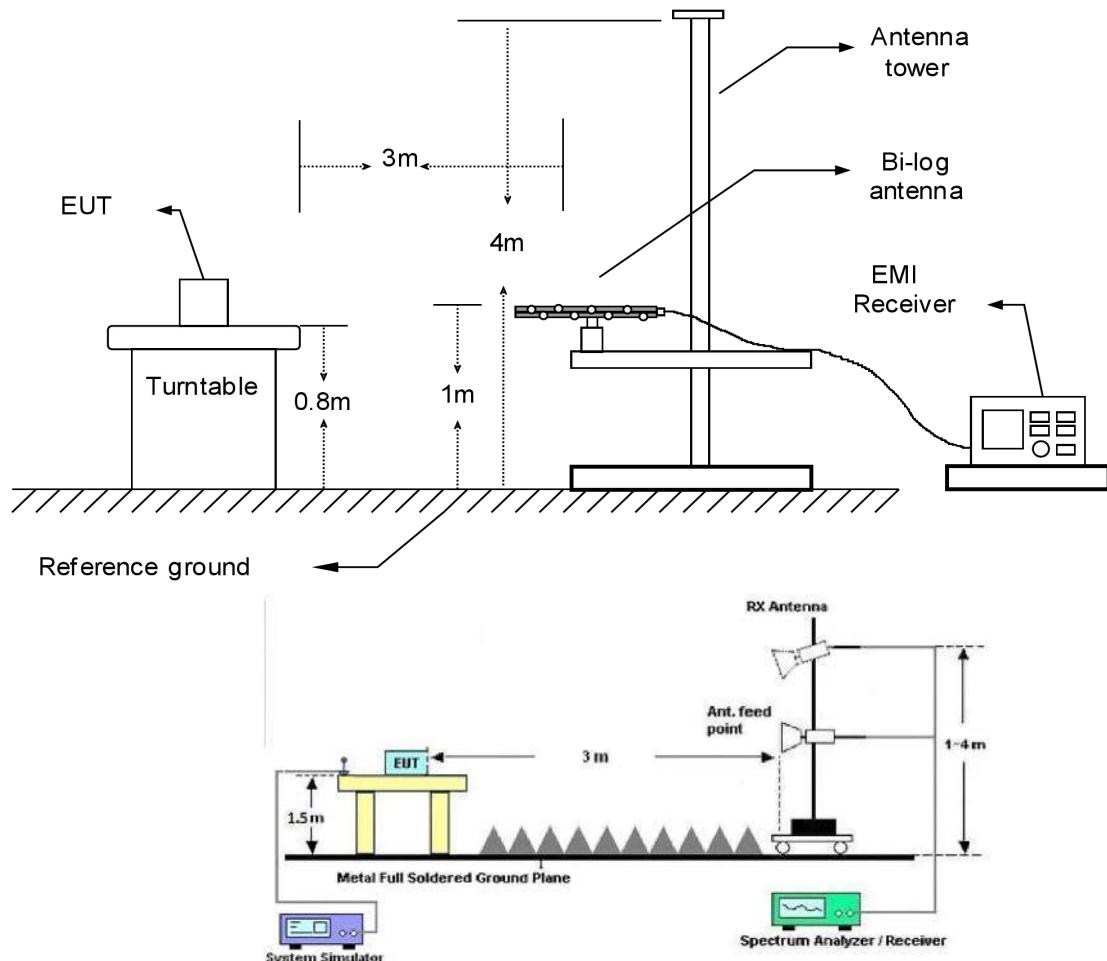


Figure Above 1 GHz

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration

### 8.4. TEST RESULT

<b>Product name</b>	Outdoor Plug-in Photocell Timer with Remote	<b>Antenna Distance</b>	3 m
<b>Model</b>	TS961R	<b>Antenna Pole</b>	Vertical / Horizontal
<b>Test Mode</b>	Working	<b>Detector Function</b>	Peak / Quasi-peak
<b>Environmental Conditions</b>	25°C, 60 % RH, 101.3 kPa	<b>6 dB Bandwidth</b>	120 kHz
<b>Tested by</b>	YangXueZhi	<b>Test Result</b>	Pass

Note:



Freq. = Emission frequency in MHz

Reading level (dB $\mu$ V) = Receiver reading(dB $\mu$ V)

Corr.Factor (dB/m)=Antenna factor(dB/m)+Cable loss(dB)-Preamp Factor(dB)

Measurement (dB $\mu$ V/m)=Reading level(dB $\mu$ V)+ Corr. Factor (dB/m)

Limit (dB $\mu$ V/m) = Limit stated in standard

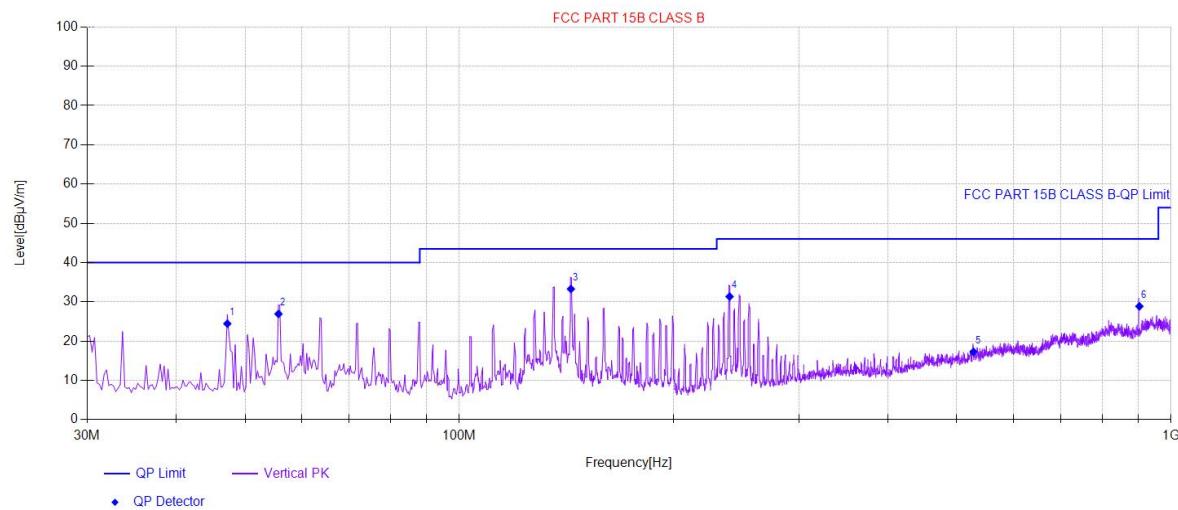
Over Limit (dB) = Measurement (dB $\mu$ V/m) – Limit (dB $\mu$ V/m)

QP = Quasi-Peak

The highest frequency of the EUT internal source is greater than 108MHz, so the frequency is measured to 5GHz.

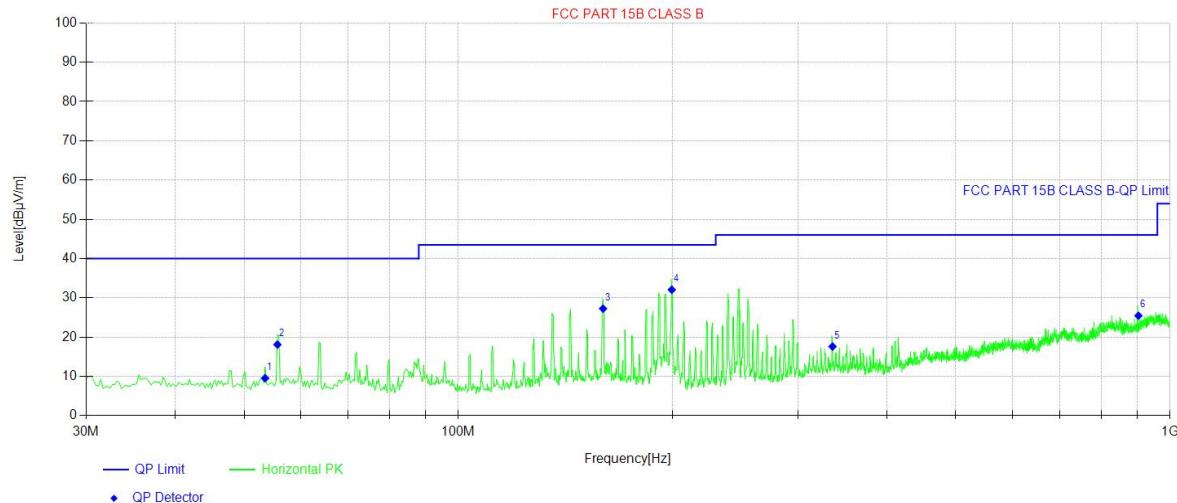
Please refer to the following diagram: (Radiated Emission test Result below 1G)

Vertical:



Final Data List[QP]									
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.22	42.03	-17.59	24.44	40.00	15.56	100	360	Vertical
2	55.71	44.85	-17.92	26.93	40.00	13.07	100	56	Vertical
3	143.49	49.76	-16.47	33.29	43.50	10.21	100	53	Vertical
4	239.76	48.99	-17.64	31.35	46.00	14.65	100	166	Vertical
5	527.85	27.18	-9.90	17.28	46.00	28.72	100	255	Vertical
6	902.76	31.83	-2.96	28.87	46.00	17.13	100	145	Vertical

Horizontal:



Final Data List[QP]

NO.	Freq. [MHz]	QP Reading [dB $\mu$ V/m]	Factor [dB]	QP Value [dB $\mu$ V/m]	QP Limit [dB $\mu$ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.52	27.38	-17.83	9.55	40.00	30.45	100	286	Horizontal
2	55.71	36.02	-17.92	18.10	40.00	21.90	100	188	Horizontal
3	159.74	43.12	-15.86	27.26	43.50	16.24	100	227	Horizontal
4	199.51	50.87	-18.80	32.07	43.50	11.43	100	346	Horizontal
5	335.55	32.13	-14.52	17.61	46.00	28.39	100	6	Horizontal
6	902.76	28.41	-2.96	25.45	46.00	20.55	100	2	Horizontal



## Radiated Emission test Result (1G-5GHz):

Vertical:

NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Factor [dB]	PK Value [dB $\mu$ V/m]	PK Limit [dB $\mu$ V/m]	PK Margin [dB]	Detector	Polarity
1	1040.00	41.34	-2.86	38.48	74	-35.52	Peak	Vertical
2	1170.00	39.71	-2.92	36.79	74	-37.21	Peak	Vertical
3	1280.00	39.41	-2.86	36.55	74	-37.45	Peak	Vertical
4	1780.00	38.92	-3.51	35.41	74	-38.59	Peak	Vertical
5	2520.00	36.41	-0.48	35.93	74	-38.07	Peak	Vertical
6	3410.00	40.30	1.77	42.07	74	-31.93	Peak	Vertical

NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Factor [dB]	AV Value [dB $\mu$ V/m]	AV Limit [dB $\mu$ V/m]	AV Margin [dB]	Detector	Polarity
1	1040.00	26.50	-2.86	23.64	54	30.36	AV	Vertical
2	1170.00	26.92	-2.92	24.00	54	30.00	AV	Vertical
3	1280.00	26.62	-2.86	23.76	54	30.24	AV	Vertical
4	1780.00	25.31	-3.51	21.80	54	32.20	AV	Vertical
5	2520.00	21.52	-0.48	21.04	54	32.96	AV	Vertical
6	3410.00	27.63	1.77	29.40	54	24.60	AV	Vertical



Horizontal:

NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Factor [dB]	PK Value [dB $\mu$ V/m]	PK Limit [dB $\mu$ V/m]	PK Margin [dB]	Detector	Polarity
1	1070.00	40.86	-2.87	40.86	74	33.14	Peak	Horizontal
2	1160.00	40.13	-2.92	40.13	74	33.87	Peak	Horizontal
3	1290.00	39.83	-2.85	39.83	74	34.17	Peak	Horizontal
4	1590.00	40.55	-3.3	40.55	74	33.45	Peak	Horizontal
5	2520.00	38.01	-0.48	38.01	74	35.99	Peak	Horizontal
6	3260.00	38.26	1.5	38.26	74	35.74	Peak	Horizontal

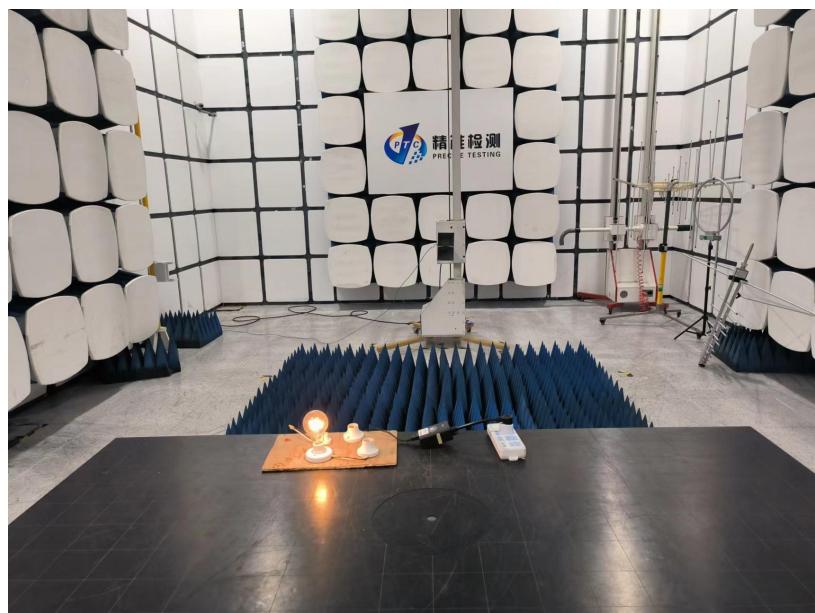
NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Factor [dB]	AV Value [dB $\mu$ V/m]	AV Limit [dB $\mu$ V/m]	AV Margin [dB]	Detector	Polarity
1	1070.00	26.49	-2.87	23.62	54	30.38	AV	Horizontal
2	1160.00	27.54	-2.92	24.62	54	29.38	AV	Horizontal
3	1290.00	25.21	-2.85	22.36	54	31.64	AV	Horizontal
4	1590.00	24.93	-3.3	21.63	54	32.37	AV	Horizontal
5	2520.00	28.46	-0.48	27.98	54	26.02	AV	Horizontal
6	3260.00	23.40	1.5	24.90	54	29.10	AV	Horizontal

## 9. PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST



## RADIATED EMISSION TEST





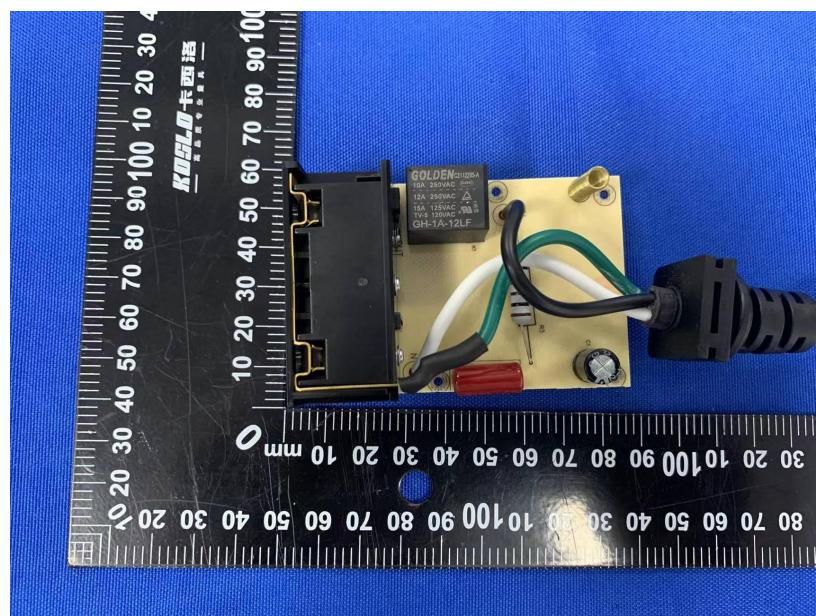
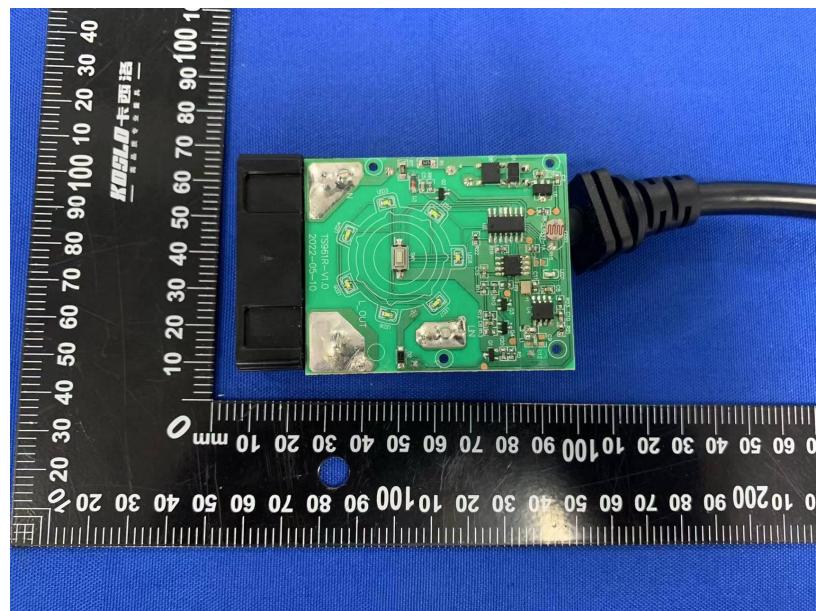
## 10. PHOTOGRAPHS OF EUT

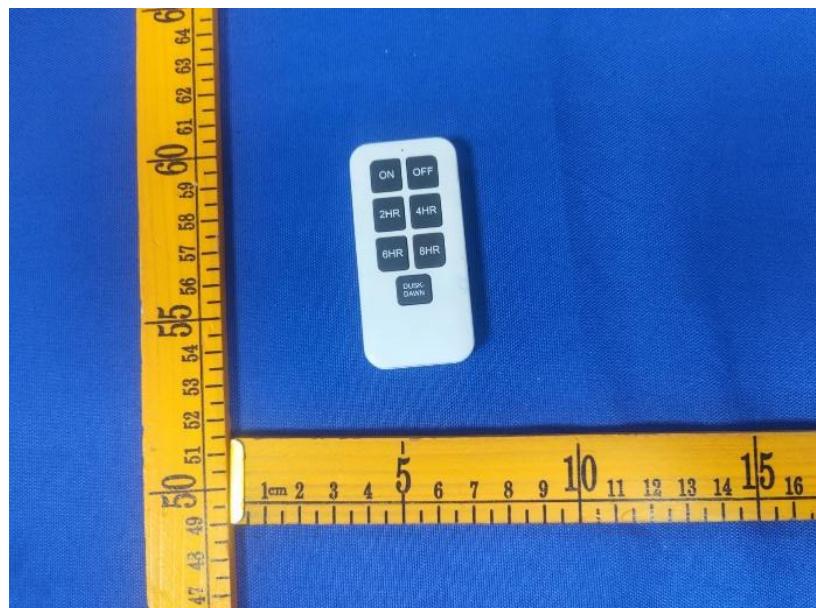
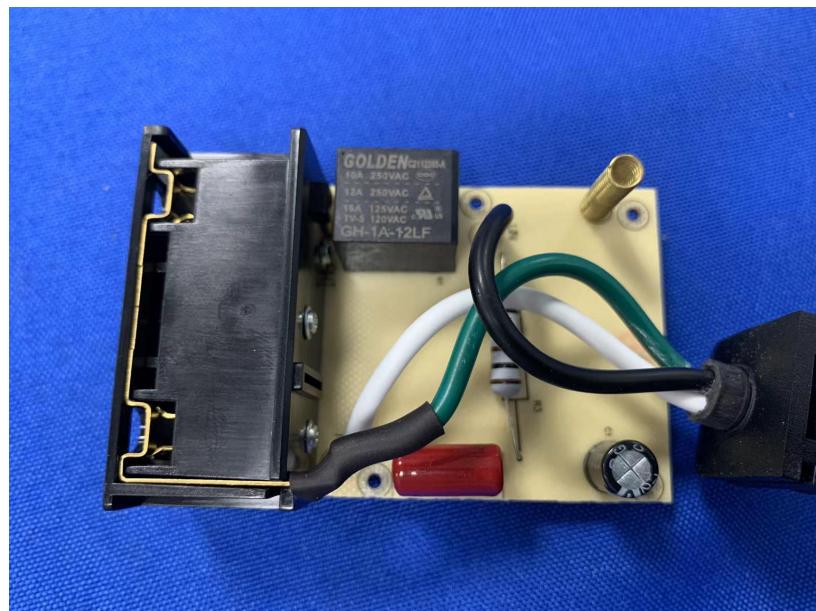
















## 11. LABELING REQUIREMENTS

According to FCC Part 15 Section 15.19, a device subject to certification or Supplier's Declaration of Conformity shall be labelled as follows:

**"This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."**

The device shall bear the statement in a conspicuous location on the device.

Devices subject to authorization under Supplier's Declaration of Conformity may be labeled with the FCC logo on a voluntary basis as a visual indication that the product complies with the applicable FCC requirements.

Note: The Commission concluded that if the labeling and regulatory information cannot be displayed to the intended recipient "in a manner that effects its purpose," the device is incapable of digitally displaying the required information as required by the E-LABEL Act. Electronic labeling information must be electronically displayed in a manner that is "clearly legible without the aid of magnification" Similarly, because electronic labels cannot be easily removed or replaced if they are to be effective, manufacturers that choose to display required labeling information electronically must ensure that the information may not be removed or modified by anyone other than the responsible party.



## 12. INFORMATION TO USER

If a product must be tested and authorized under Supplier's Declaration of Conformity, a compliance information statement shall be supplied with product at the time of marketing or importation, containing the following information:

- (1) Identification of the product, e.g., name and model number;
- (2) A compliance statement as applicable, e.g., for devices subject to part 15 of this chapter as specified in 15.19(a)(3) of this chapter, that the product complies with the rules; and
- (3) The identification, by name, address and telephone number or Internet contact information, of the responsible party. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

According to FCC Part 15 section 15.21, the users manual or instruction manual for an intentional or unintentional radiator shall caution the user that:

**"Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment".**

Also, refer to FCC Part 15 section 15.105, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

**"Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:**

- Reorient or relocate the receiving antenna.**
- Increase the separation between the equipment and receiver.**
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- Consult the dealer or an experienced radio/TV technician for help."**

**\*\*\*\*\*THE END REPORT\*\*\*\*\***