# EMC TEST REPORT

#### For

# Dongguan Xing Yue Electronic co., Ltd

# Ourdoor 10W Wireless Charging Solar Powerbank

Test Model:

:

:

Prepared for Address

Prepared by Address	<ul> <li>Shenzhen LCS Compliance Testing Laboratory Ltd.</li> <li>101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, Guangdong, China</li> </ul>
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Mail	: webmaster@LCS-cert.com
Date of receipt of test sample	: January 13, 2020
Number of tested samples	: 1
Serial number	: Prototype
Date of Test	: January 13, 2020 ~ January 14, 2020
Date of Report	: January 17, 2020

# CE

SHENZHEN LCS COMPLIANCE TES	TING LABORATORY LTD.	Report No.: LCS200102090AE
	EMC TEST REPORT	
EN 55032: 2015 Electromagnetic compatibility of multimedia equipment - Emission Requirements EN 55035: 2017 Electromagnetic compatibility of multimedia equipment – Immunity requirements		
Report Reference No		
Date of Issue		
	: Shenzhen LCS Compliance Te	
Address	: 101, 201 Building A and 301 Bui Yabianxueziwei, Shajing Street, Guangdong, China	
Testing Location/ Procedure	: Full application of Harmonised s Partial application of Harmonised Other standard testing method	d standards □
Applicant's Name	;	
Address	:	
Test Specification		
Standard	EN 55032: 2015 EN 55035: 2017	
Test Report Form No	: LCSEMC-1.0	
TRF Originator	: Shenzhen LCS Compliance Tes	ting Laboratory Ltd.
Master TRF		
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	: Ourdoor 10W Wireless Charging	
Trade Mark	: N/A	
Test Model	:	
Ratings	<ul> <li>Capacity: 10000mAh/37Wh</li> <li>Type-C Input: 5V-2.4A, 9V-1.6</li> <li>USB Output: 5V-2.4A</li> <li>Type-C Input: 5V-2.4A</li> <li>Wireless Output: 5W/7.5W/10W</li> </ul>	67A
Result	: Positive	
Compiled by:	Supervised by:	Approved by:
Momia Mo	Darby-xn	PARNES PARNES
Monica Mo/ File administrators	Davey Xu/ Technique Principal	Gavin Liang/ Manager
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# **EMC -- TEST REPORT**

Test Report No. :	LCS200102090AE
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Test Model..... : XO-9771

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January 17, 2020

Date of issue

WFLIANCE TESTING LADORATORY LTD.	MPLIANCE TESTING LABORATORY LTD.
----------------------------------	----------------------------------

EUT	: Ourdoor 10W Wireless Charging Solar Powerbank
Applicant	:
Address	:
Telephone	:
Fax	:
Manufacturer	:
Address	:
Telephone	:
Fax	:
Factory	:
Address	:
Telephone	:
Fax	:

Test Result	Positive
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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

# **Revision History**

Revision	Issue Date	Revisions	Revised By
000	January 17, 2020	Initial Issue	Gavin Liang

Page

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# **Test Report Description**

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# 1. TEST STANDARDS

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#### The tests were performed according to following standards:

<u>EN 55032: 2015</u> Electromagnetic compatibility of multimedia equipment - Emission Requirements <u>EN 55035: 2017</u> Electromagnetic compatibility of multimedia equipment – Immunity requirements

# 2.SUMMARY OF STANDARDS AND RESULTS

#### 2.1. Description of Standards and Results

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The EUT have been tested according to the applicable standards as referenced below.

Emission (EN 55032: 2015)		
Standard	Limits	Results
EN 55032: 2015	Class B	N/A
EN 55032: 2015	Class B	N/A
EN 55032: 2015	Class B	PASS
EN 61000-3-2: 2014	Class A	N/A
EN 61000-3-3: 2013		N/A
Immunity (EN 55035: 2017)		
Basic Standard	Performance Criteria	Results
EN 61000-4-2: 2009	В	PASS
EN 61000-4-3: 2006+A2: 2010	А	PASS
EN 61000-4-4: 2012	В	N/A
	В	N/A
EN 61000-4-5: 2014+A1: 2017	В	N/A
EN 61000-4-6: 2014	A	N/A
EN 61000-4-8: 2010	А	PASS
	В	N/A
EN 61000-4-11: 2004+A1: 2017	С	N/A
ion for Not Applicable.	С	N/A
	Standard         EN 55032: 2015         EN 55032: 2015         EN 55032: 2015         EN 61000-3-2: 2014         EN 61000-3-3: 2013         Immunity (EN 55035: 2017)         Basic Standard         EN 61000-4-2: 2009         EN 61000-4-2: 2010         EN 61000-4-3: 2006+A2: 2010         EN 61000-4-4: 2012         EN 61000-4-5: 2014+A1: 2017         EN 61000-4-6: 2014         EN 61000-4-8: 2010	Standard         Limits           EN 55032: 2015         Class B           EN 55032: 2015         Class B           EN 55032: 2015         Class B           EN 61000-3-2: 2014         Class A           EN 61000-3-2: 2014         Class A           EN 61000-3-3: 2013            Immunity (EN 55035: 2017)            Basic Standard         Performance Criteria           EN 61000-4-2: 2009         B           EN 61000-4-3: 2006+A2: 2010         A           EN 61000-4-3: 2006+A2: 2010         B           EN 61000-4-4: 2012         B           EN 61000-4-5: 2014+A1: 2017         B           EN 61000-4-6: 2014         A           EN 61000-4-8: 2010         A           EN 61000-4-8: 2010         A

Test mode:		
Mode 1	Discharging	Record
Mode 2	Charging	Pre-scan
Mode 3	Wireless charging mode	Pre-scan
***Note: All test modes were tested, but we only recorded the worst case in this report.		

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#### 2.2. Description of Performance Criteria

#### General Performance Criteria

Examples of functions defined by the manufacturer to be evaluated during testing include, but are not limited to, the following:

- essential operational modes and states;

- tests of all peripheral access (hard disks, floppy disks, printers, keyboard, mouse, etc.);

- quality of software execution;
- quality of data display and transmission;
- quality of speech transmission.

#### 2.2.1. Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacture when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deriver from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

#### 2.2.2. Performance criterion B

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After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacture, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

During the test, degradation of performance is allowed. However, no change of operation state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be deriver from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

#### 2.2.3. Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacture's instructions.

Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be loss.

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# **3. GENERAL INFORMATION**

## 3.1. Description of Device (EUT)

EUT	: Ourdoor 10W Wireless Charging Solar Powerbank
Trade Mark	: N/A
Test Model	: XO-9771
Power Supply	: Capacity: 10000mAh/37Wh Type-C Input: 5V <sup></sup> 2.4A, 9V <sup></sup> 1.67A USB Output: 5V <sup></sup> 2.4A Type-C Input: 5V <sup></sup> 2.4A Wireless Output: 5W/7.5W/10W

Highest internal frequency (Fx)	Highest measured frequency
Fx ≤ 108 MHz 108 MHz < Fx ≤ 500 MHz 500 MHz < Fx ≤ 1 GHz Fx > 1 GHz	1 GHz 2 GHz 5 GHz 5 × Fx up to a maximum of 6 GHz
generated or used excluding the local NOTE 2 Fx is defined in EN 55032 Set	ceivers, Fx is determined from the highest frequency oscillator and tuned frequencies. ection 3.1.19. nission measurements shall be performed up to 6 GHz.

# 3.2. Description of Test Facility

FCC Registration Number is 254912. Industry Canada Registration Number is 9642A-1. ESMD Registration Number is ARCB0108. UL Registration Number is 100571-492. TUV SUD Registration Number is SCN1081. TUV RH Registration Number is UA 50296516-001. NVLAP Registration Code is 600167-0.

# 3.3. Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

#### 3.4. Measurement Uncertainty

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Test	Parameters	Expanded Uncertainty (U <sub>lab</sub> )	Expanded Uncertainty (U <sub>cispr</sub> )
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Power Disturbance	Level accuracy (30MHz to 300MHz)	± 2.90dB	$\pm$ 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	$\pm$ 3.60 dB	$\pm$ 3.3 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	$\pm$ 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	$\pm$ 3.48 dB	$\pm$ 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	$\pm$ 3.90 dB	$\pm$ 5.2 dB
Mains Harmonic	Voltage	± 0.510%	N/A
Voltage Fluctuations & Flicker	Voltage	± 0.510%	N/A
EMF	/	± 21.59%	N/A

1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

# 4. MEASURING DEVICES AND TEST EQUIPMENT

Test	Item: Radiated	Disturbance (E	Electric Field)	)	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Software	EZ	EZ-EMC	/	N/A
2	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2019-06-12
3	Positioning Controller	MF	MF-7082	/	2019-06-12
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2019-07-25
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2019-07-01
6	EMI Test Receiver	R&S	ESR 7	101181	2019-06-12
7	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2019-11-14
8	Broadband Preamplifier	/	BP-01M18G	P190501	2019-07-01
9	RF Cable-R03m	Jye Bao	RG142	CB021	2019-06-12
10	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2019-06-12

# **Test Item: Electrostatic Discharge**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	SCHLODER	SESD 230	604035	2019-06-13

# Test Item: RF Field Strength Susceptibility

		U	. ,		
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	RS Test Software	Tonscend	/	/	N/A
2	ESG Vector Signal Generator	Agilent	E4438C	MY42081396	2019-11-14
3	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2019-06-12
4	RF POWER AMPLIFIER	OPHIR	5225R	1052	NCR
5	RF POWER AMPLIFIER	OPHIR	5273F	1019	NCR
6	Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	NCR
7	Stacked Mikrowellen LogPer Antenna	SCHWARZBECK	STLP 9149	9149-484	NCR
8	Electric field probe	Narda S.TS./PMM	EP601	611WX80208	2019-03-25
Note:	NCR means no ca	libration requireme	nt		

Test	Item: Power Fr	equency Magn	etic Field Sus	sceptibility	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power frequency mag-field generator System	EVERFINE	EMS61000-8K	906003	2019-06-11

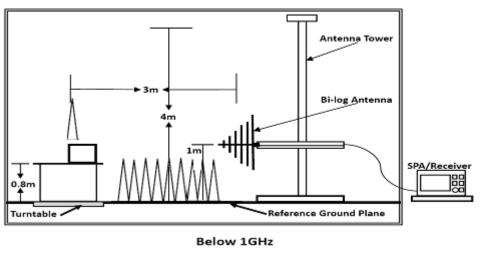
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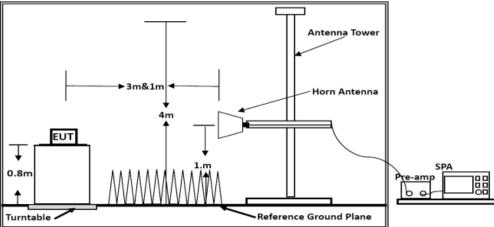
# **5.TEST RESULTS**

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#### 5.1. RADIATED EMISSION MEASUREMENT

#### 5.1.1. Block Diagram of Test Setup





Above 1GHz

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#### 5.1.2. Test Standard

#### EN 55032: 2015 Class B

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Limits	for Radiated Emission Below	1GHz
Frequency (MHz)	Distance (Meters)	Field Strengths Limit (dBµV/m)
30 ~ 230	3	42-35
230 ~ 1000	3	42

\*\*\*Note:

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(1) The smaller limit shall apply at the combination point between two frequency bands.(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

	Limits for Radiated E	mission Above 1GHz	2
Frequency	Distance	Peak Limit	Average Limit
(MHz) 1000 ~ 3000	(Meters)	(dBµV/m)	(dBµV/m)
3000 ~ 6000	3	70	54
	it applies at the transitior	n frequency.	<u> </u>

#### 5.1.3. EUT Configuration on Test

The EN 55032 regulations test method must be used to find the maximum emission during radiated emission measurement.

#### 5.1.4. Operating Condition of EUT

5.1.4.1. Turn on the power.

5.1.4.2. Let the EUT work in the test Mode 1 and measure it.

#### 5.1.5. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. By-log antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the EMI test receiver is set at RBW/VBW=120kHz/300kHz.

The frequency range from 30MHz to 1000MHz is checked.

The bandwidth of the Spectrum analyzer is set at RBW/VBW=1MHz/3MHz.

The frequency range from 1GHz to the frequency which about 5th carrier harmonic or 6GHz is checked.

#### 5.1.6. Test Results

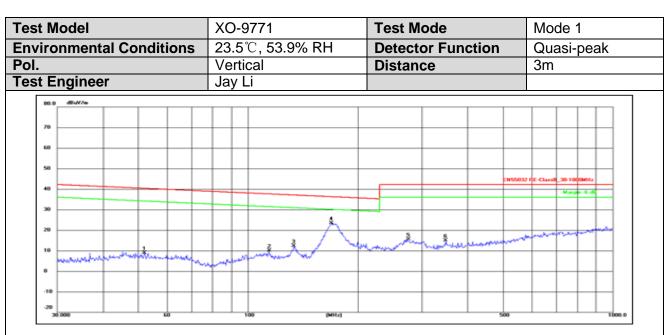
#### PASS.

The test result please refer to the next page.

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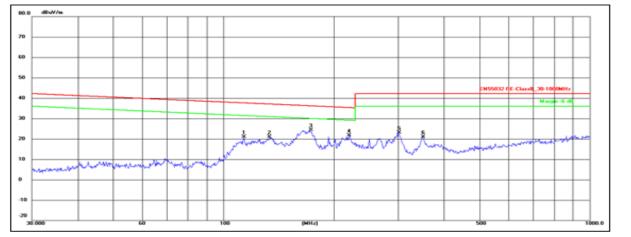
#### SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

Report No.: LCS200102090AE



No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	52.0251	25.66	-16.71	8.95	40.11	-31.16	QP
2	114.1138	29.14	-19.10	10.04	37.41	-27.37	QP
3	133.6188	34.01	-21.69	12.32	36.87	-24.55	QP
4	169.5990	44.22	-20.73	23.49	36.05	-12.56	QP
5	274.1939	31.78	-16.19	15.59	42.00	-26.41	QP
6	348.0274	29.36	-14.44	14.92	42.00	-27.08	QP

Test Model	XO-9771	Test Mode	Mode 1
<b>Environmental Conditions</b>	23.5℃, 53.9% RH	Detector Function	Quasi-peak
Pol.	Horizontal	Distance	3m
Test Engineer	Jay Li		



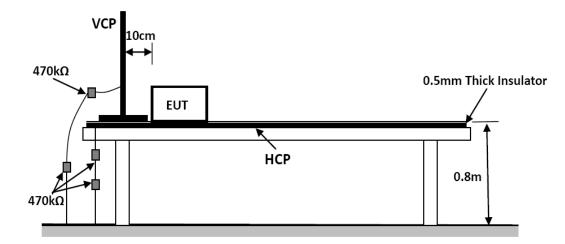
No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	113.7143	40.11	-19.03	21.08	37.42	-16.34	QP
2	133.6188	42.65	-21.69	20.96	36.87	-15.91	QP
3	172.5988	44.94	-20.57	24.37	35.99	-11.62	QP
4	220.6171	39.36	-17.66	21.70	35.14	-13.44	QP
5	301.4224	38.77	-15.63	23.14	42.00	-18.86	QP
6	350.4768	35.48	-14.40	21.08	42.00	-20.92	QP

Remark: Pre-San all mode, Thus record worse case mode result in this report

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#### 5.2. ELECTROSTATIC DISCHARGE IMMUNITY TEST

#### 5.2.1. Block Diagram of Test Setup



#### 5.2.2. Test Standard

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EN 55035: 2017 (EN 61000-4-2: 2009, Severity Level: 3 / Air Discharge: ±8KV, Level: 2 / Contact Discharge: ±4KV)

#### 5.2.3. Severity Levels and Performance Criterion

5.2.3.1. Severity lev
-----------------------

Loval	Test Voltage	Test Voltage	
Level	Contact Discharge (KV)	Air Discharge (KV)	
1	±2	±2	
2	±4	±4	
3	±6	±8	
4	±8	±15	
Х	Special	Special	

5.2.3.2. Performance Criterion Performance Criterion: B

#### 5.2.4. EUT Configuration on Test

The configuration of EUT is listed in Section 5.2.1.

#### 5.2.5. Operating Condition of EUT

Same as radiated emission measurement, which is listed in Section 5.1.4. Except the test set up replaced by Section 5.2.1.

#### 5.2.6. Test Procedure

#### 5.2.6.1. Air Discharge

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

#### 5.2.6.2. Contact Discharge

All the procedure shall be same as Section 5.2.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

#### 5.2.6.3. Indirect Discharge For Horizontal Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

#### 5.2.6.4. Indirect Discharge For Vertical Coupling Plane

At least 10 single discharge (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

#### 5.2.7. Test Results

#### PASS.

The test result please refer to the next page.

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Electrostatic Discharge Test Results				
Standard	Standard         □ IEC 61000-4-2         ☑ EN 61000-4-2			
Applicant	Dongguan Xing Yue Electronic co., Ltd			
EUT	Ourdoor 10W Wireless Charging Solar Powerbank Temperature		<b>25.1</b> ℃	
M/N	XO-9771	Humidity	52.9%	
Criterion	B Pressure 1021mbar		1021mbar	
Test Mode	Mode 1	Test Engineer	Jay Li	

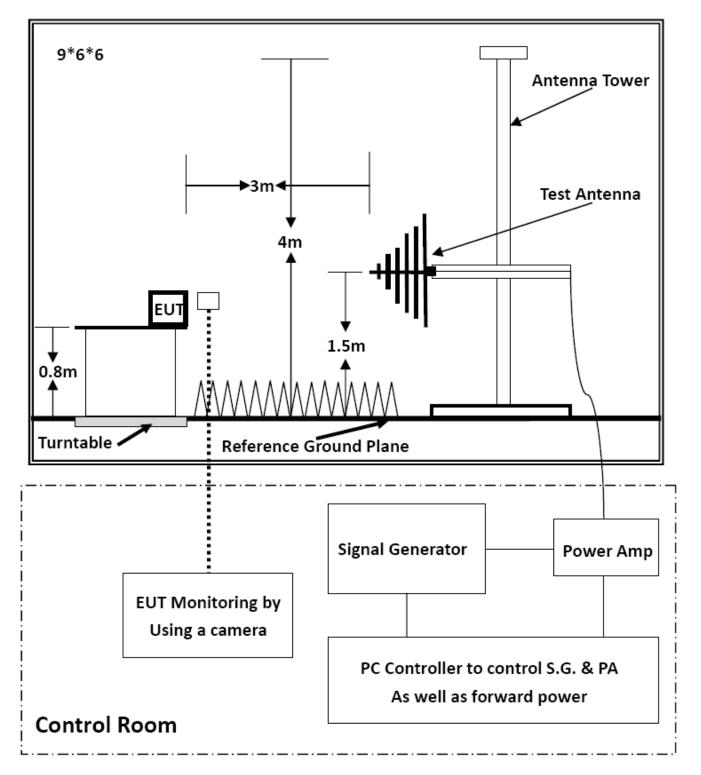
Air Discharge						
		<b>Test Levels</b>	;	Results		
Test Points	± 2kV	± 4kV	± 8kV	Passed	Fail	Performance Criterion
Front	$\square$	$\square$		$\square$		□A ⊠B
Back	$\square$			$\square$		□A ⊠B
Left						□A ⊠B
Right				$\square$		□A ⊠B
Тор	$\square$					□A ⊠B
Bottom	$\square$	$\square$	$\square$	$\square$		□A ⊠B
		Cont	tact Discha	rge		
		<b>Test Levels</b>	5		Resu	
Test Points	± 2 kV	,	±4 kV	Passed	Fail	Performance Criterion
Front	$\boxtimes$		$\boxtimes$	$\square$		□A ⊠B
Back	$\boxtimes$		$\boxtimes$	$\square$		□A ⊠B
Left	$\boxtimes$		$\boxtimes$	$\square$		□A ⊠B
Right	$\boxtimes$		$\boxtimes$	$\square$		□A ⊠B
Тор	$\boxtimes$		$\boxtimes$	$\square$		□A ⊠B
Bottom	$\boxtimes$		$\boxtimes$	$\square$		□A ⊠B
	Disc	harge To H	Iorizontal C	oupling Plar	ne	
		<b>Test Levels</b>	5		Resu	
Side of EUT	± 2 kV	,	± 4 kV	Passed	Fail	Performance Criterion
Front	$\boxtimes$		$\boxtimes$			□A ⊠B
Back	$\boxtimes$		$\boxtimes$	$\square$		□A ⊠B
Left	$\boxtimes$		$\square$	$\square$		□A ⊠B
Right	$\boxtimes$		$\bowtie$	$\square$		□A ⊠B
	Dis	charge To	<b>Vertical Co</b>	upling Plane	•	
		<b>Test Levels</b>	5	Results		
Side of EUT	± 2 kV	,	± 4 kV	Passed	Fail	Performance Criterion
Front	$\boxtimes$		$\boxtimes$			□A ⊠B
Back	$\boxtimes$		$\boxtimes$			□A ⊠B
Left	$\boxtimes$		$\boxtimes$			□A ⊠B
Right	$\boxtimes$		$\boxtimes$			□A ⊠B

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# 5.3. RF FIELD STRENGTH SUSCEPTIBILITY TEST

## 5.3.1. Block Diagram of Test Setup

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#### 5.3.2. Test Standard

EN 55035: 2017 (EN 61000-4-3: 2006+A2: 2010 Severity Level: 2, 3V/m)

#### 5.3.3. Severity Levels and Performance Criterion

Level	Field Strength (V/m)	
1	1	
2	3	
3	10	
X	Special	

#### 5.3.3.2. Performance Criterion: A

#### 5.3.4. EUT Configuration on Test

The configuration of EUT is listed in Section 5.3.1.

#### 5.3.5. Operating Condition of EUT

Same as radiated emission measurement, which is listed in Section 5.1.4, except the test setup replaced as Section 5.3.1.

#### 5.3.6. Test Procedure

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The EUT are placed on a table, which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna, which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD Recording is used to monitor its screen. All the scanning conditions are as following:

Condition of Test	Remark
Fielded Strength	3 V/m (Severity Level 2)
Radiated Signal	Unmodulated
Test Frequency Range (Swept Test)	80-1000MHz
Test Frequency (spot test)	1800MHz, 2600MHz, 3500MHz, 5000MHz
Dwell Time of Radiated	0.0015 decade/s
Waiting Time	3 Sec.

#### 5.3.7. Test Results

# PASS.

The test result please refer to the next page.

Report No.: LCS200102090AE

RF Field	RF Field Strength Susceptibility Test Results				
Standard	□ IEC 61000-4-3				
Applicant	Dongguan Xing Yue Electronic co., Ltd				
EUT	Ourdoor 10W Wireless Charging Solar Powerbank	Temperature	<b>23.5</b> ℃		
M/N	XO-9771	Humidity	53.9%		
Field Strength	3 V/m	Criterion	A		
Test Mode	Mode 1	Test Engineer	Jay Li		
Test Frequency	80MHz to 1000MHz (Swept Test) 1800MHz, 2600MHz, 3500MHz, 5000MHz (spot test)				
Modulation	□None □ Pulse	☑AM 1KHz 80%			
Steps	1%				

	Horizontal	Vertical
Front	PASS	PASS
Right	PASS	PASS
Rear	PASS	PASS
Left	PASS	PASS

Test Equipment:

1. Signal Generator: 2031 (MARCONI)

2. Power Amplifier: 500A100 & 100W/1000M1 (A&R)

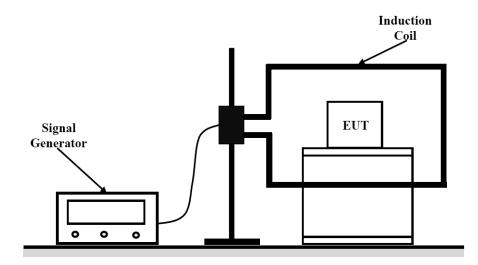
3. Power Antenna: 3108 (EMCO) & AT1080 (A&R)

4. Field Monitor: FM2000 (A&R)

Note:

#### 5.4. MAGNETIC FIELD SUSCEPTIBILITY TEST

#### 5.4.1. Block Diagram of Test Setup



#### 5.4.2. Test Standard

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EN 55035: 2017 (EN 61000-4-8: 2010, Severity Level: Level 1, 1A/m)

#### 5.4.3. Severity Levels and Performance Criterion

Level	Field Strength (A/m)
1	1
2	3
3	10
4	30
5	100
Х	Special

5.4.3.2. Performance Criterion Performance Criterion: A

#### 5.4.4. EUT Configuration on Test

The configuration of EUT is listed in Section 5.4.1.

#### 5.4.5. Test Procedure

The EUT is placed in the middle of a induction coil (1\*1m), under which is a 1\*1\*0.1m (high) table, this small table is also placed on a larger table, 0.8 m above the ground. Both horizontal and vertical polarization of the induction coil is set on test, so that each side of the EUT is affected by the magnetic field. Also can reach the same aim by change the position of the EUT.

#### 5.4.6. Test Results

#### PASS.

The test result please refer to the next page.

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Report No.: LCS200102090AE

Magnetic Field Immunity Test Result			
Standard	□ IEC 61000-4-8  ☑ EN 61000-4-8		
Applicant	Dongguan Xing Yue Electronic co., Ltd		
EUT	Ourdoor 10W Wireless Charging Solar Powerbank	Temperature	<b>23.8</b> ℃
M/N	XO-9771	Humidity	53.7%
Test Mode	Mode 1	Criterion	А
Test Engineer	Jay Li		

Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result
1	5 mins	Х	А	PASS
1	5 mins	Y	A	PASS
1	5 mins	Z	A	PASS

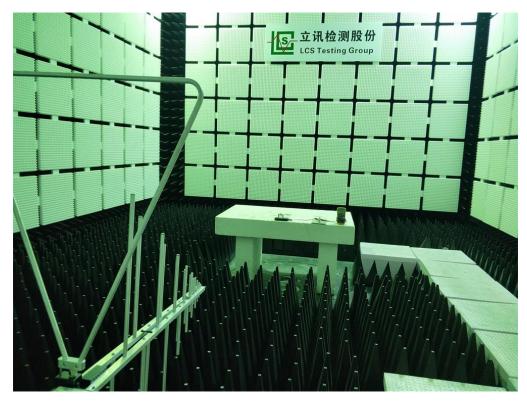
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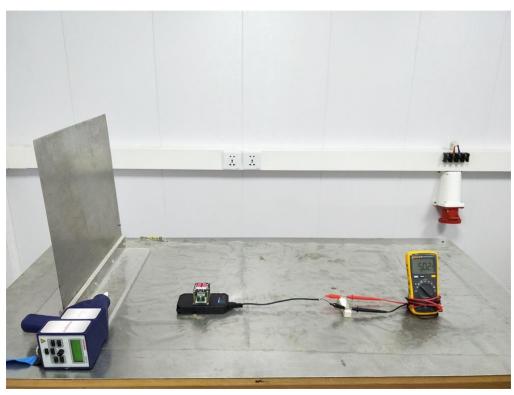
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# 6. PHOTOGRAPHS OF TEST SETUP

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Test Setup Photo of Radiated Measurement (30MHz~1GHz)



Test Setup Photo of Electrostatic Discharge Test

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Test Setup Photo of Magnetic Field Immunity Test

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# 7. PHOTOGRAPHS OF THE EUT

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Fig. 1



Fig. 2

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Fig. 3



Fig. 4

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Fig. 7



Fig. 8

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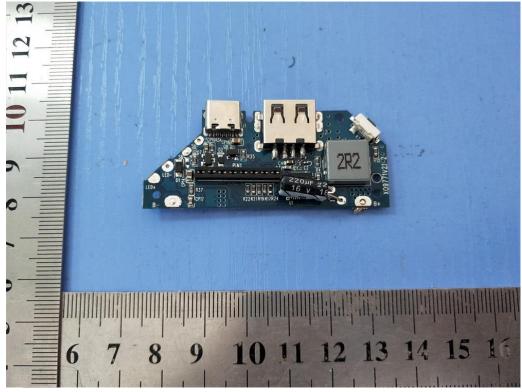


Fig. 9

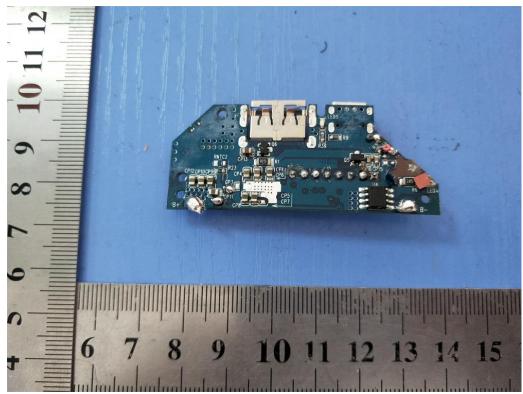


Fig. 10

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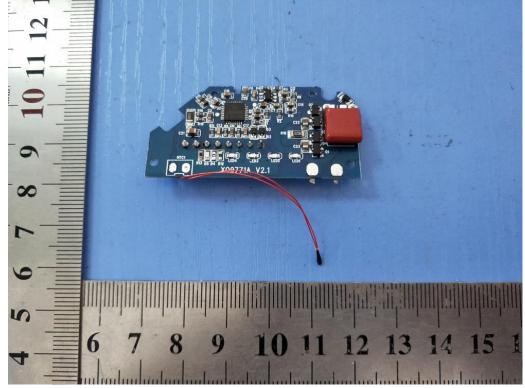


Fig. 11

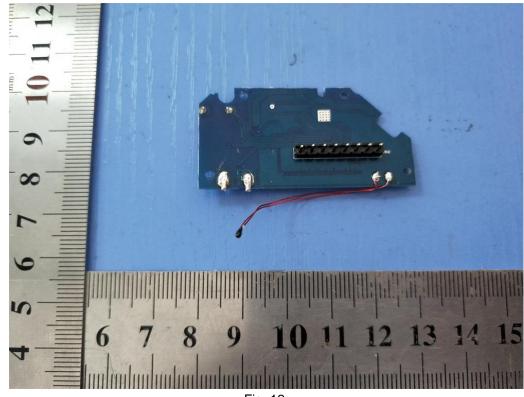


Fig. 12

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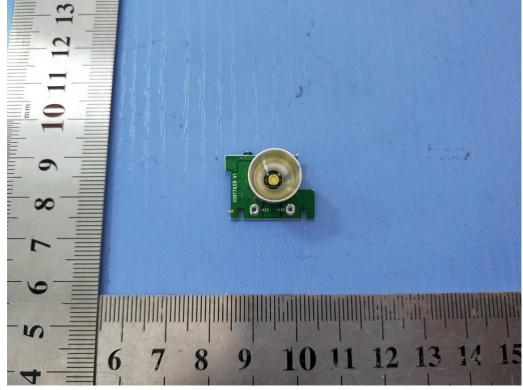
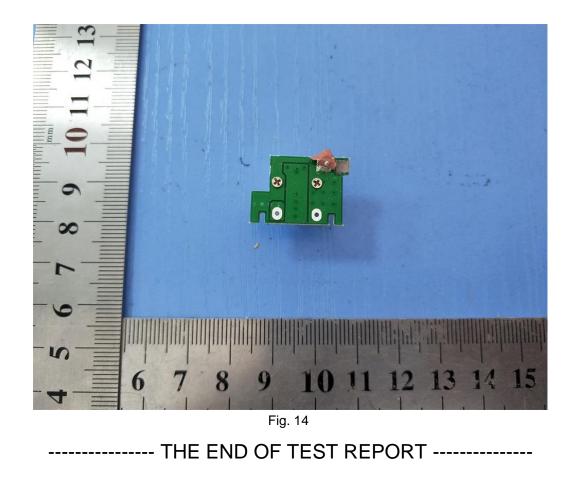


Fig. 13



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