

Page 1 of 27

# **EMC** Test Report

Client Name	: ShenZhen PuSou Electronic Manufactory
Address	4F, Entrance B, Building F, Xing Hui Science Park, Gu Shu 2Rd, Xixiang of Bao'An District, Shenzhen, China
Alle	Ander at hotek Anboir An stek and

Product Name : UV BOX STERILIZATION

Date : Jun. Xx, 2020

# Shenzhen Anbotek Compliance Laboratory Limited

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

### Code:AB-EMC-02-b



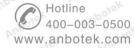
Page 2 of 27

# Contents

1. General Information	.0	pilek philor	4
1.1. Client Information	Anbor An	Lotok Antorie	
1.2. Description of Device (EUT)	Linboter 1	10 <sup>0</sup>	
1.3. Auxiliary Equipment Used During Test		And	
1.4. Description of Test Mode		poboten A	5
1.5. Test Summary	Anna Anna Anna Anna Anna Anna Anna Anna	e	5
1.6. Test Equipment List	motek Anbo.		6
1.7. Description of Test Facility	1000 March 1000	ote Ane	7
1.8. EMS Performance Criteria			
2. Power Line Conducted Emission Test			
2.1. Test Standard and Limit	polo	Alle	
2.2. Test Setup	ok	Anbo	8
2.3. EUT Configuration on Measurement		pribore	8
2.4. Operating Condition of EUT	bound bring	ant and a start of the start of	
2.5. Test Procedure	Autorien Autor		9
2.6. Test Results			
3. Disturbance Power Test			
3.1. Test Standard and Limit	Anor	Notes Allen	
3.2. Test Setup	sk pupore		
3.3. EUT Configuration on Measurement		Aulo	
3.4. Operating Condition of EUT		lek Nupor	
3.5. Test Procedure	Mulpo. Mu	tek nbote.	
3.6. Test Results	aboten Ar		
4. Electrostatic Discharge Immunity Test	and tek	. Mupor Pri	
4.1. Test Standard and Level	Par		
4.2. Test Setup	Ano		
4.3. EUT Configuration on Measurement	otek anbo		
4.4. Operating Condition of EUT	ntek nbot	e. Ann	
4.5. Test Procedure	ing.	ootek Anbor	16
4.6. Test Results	Anbo. An	anbote anbote	
APPENDIX I TEST SETUP PHOTOGRAPH			
APPENDIX II EXTERNAL PHOTOGRAPH	kbotek	Anbo, An	
APPENDIX III INTERNAL PHOTOGRAPH			24

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Page 3 of 27

# TEST REPORT

Applicant	ShenZhen PuSou Electronic Manufactory
Manufacturer	ShenZhen PuSou Electronic Manufactory
Product Name	UV BOX STERILIZATION
Model No.	: PSUVB01
Trade Mark	: N.A.
Rating(s)	: DC 5V, 2A

Test Standard(s)	npo	EN 55014-1: 2017;
		EN 55014-2: 2015
		(IEC 61000-4-2)

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report shows the EUT to be technically compliant with the EN 55014-1 and EN 55014-2 requirements. The test results are contained in this report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited

Date of Receipt:

May 29, 2020

May 29~Jun. 03, 2020

Date of Test:

Prepared By:

(Engineer / Winnie Huang)

Reviewer:

(Supervisor / Well Wang)

Approved & Authorized Signer:

(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited

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Page 4 of 27

# 1. General Information

### 1.1. Client Information

Applicant	:	ShenZhen PuSou Electronic Manufactory
Address	:	4F, Entrance B, Building F, Xing Hui Science Park, Gu Shu 2Rd, Xixiang of Bao'An District, Shenzhen, China
Manufacturer	:	ShenZhen PuSou Electronic Manufactory
Address	•	4F, Entrance B, Building F, Xing Hui Science Park, Gu Shu 2Rd, Xixiang of Bao'An District, Shenzhen, China
Factory		ShenZhen PuSou Electronic Manufactory
Address		4F, Entrance B, Building F, Xing Hui Science Park, Gu Shu 2Rd, Xixiang of Bao'An District, Shenzhen, China

# 1.2. Description of Device (EUT)

Product Name	:	UV BOX STERILIZATION
Model No.	:	PSUVB01
Trade Mark	:	N.A. Anborek
Test Power Supply	:	DC 5V via adapter
Test Sample No.	:	Amborek Anborek Anborek Anborek Anborek Anborek Amborek Amborek Amborek
Product Description	:	Adapter: N/A
9 Per 10		e detailed features description, please refer to the manufacturer's specifications 's Manual.

### 1.3. Auxiliary Equipment Used During Test

N/A

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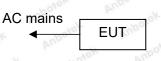


Page 5 of 27

### 1.4. Description of Test Mode

Pretest Mode			Descriptior	ı		
Mode 1	Any wotek	Anbotek	On	a obotek	Anbote	Pur

For Mode 1 Block Diagram of Test Setup



### 1.5. Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test (150kHz To 30MHz)	Mode 1	AntPtek
Disturbance Power Test (30MHz To 300MHz)	Mode 1	P <sup>iboto</sup>
Radiated Emission Test (30MHz To 1000MHz)	Anbotek And	otek N Anu
Electrostatic Discharge immunity Test	Mode 1	AnboteP Ar
RF Field Strength susceptibility Test	nbotek Anbotek	AntoNek
Electrical Fast Transient/Burst Immunity Test	Anbotek / Anbote	K Notek
Surge Immunity Test	Anbotek Anb	otek N Anbot
Injected Currents Susceptibility Test	tek Anboles A	Ante N An
Voltage Dips and Interruptions Test	ibotek Anborek	Anbitek
<ul><li>P) Indicates "PASS".</li><li>N) Indicates "Not applicable".</li></ul>	Anbotek Anbotek	tek Anbotek

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Page 6 of 27

### 1.6. Test Equipment List

#### Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
be.	L.I.S.N.	k hotek p	nbotek An	o tek	anbotek Anbo	len bun
1. Ke <sup>K</sup>	Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year
2.	L.I.S.N. Artificial Mains Network	Schwarzbeck	NSLK 8127	8127386	Nov. 04, 2019	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 04, 2019	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
5.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

#### Power Clamp Measurement

1 0 1 0 1	Olamp Measureme		.e. 19.		V	011-
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
» 1.	Absorbing Clamp	FCC	F-201-23MM	08166	Nov. 06, 2019	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 04, 2019	1 Year
3.tek	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A MA	N/A Model	N/A <sup>oones</sup>

#### Electrostatic Discharge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1,bot	ESD Simulators	3Ctest	EDS-30T	ES0131505	Nov. 06, 2019	1 Year

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Page 7 of 27

### 1.7. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 27, 2019.

#### **ISED-Registration No.: 8058A**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

### 1.8. EMS Performance Criteria

- $\sqrt{-}$  A: Normal performance within the specification limits
- B: Temporary degradation or loss of function or performance which is self-recoverable
- C: Temporary degradation or loss of function or performance which requires operator intervention or system reset
- D: Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data

Note: The manufacturer's specification may define effects on the EUT which may be considered insignificant, and therefore acceptable.

This classification may be used as a guide in formulating performance criteria, by committees responsible for generic, product and product-family standards, or as a framework for the agreement on performance criteria between the manufacturer and the purchaser, for example where no suitable generic, product or product-family standard exists.

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Page 8 of 27

# 2. Power Line Conducted Emission Test

### 2.1. Test Standard and Limit

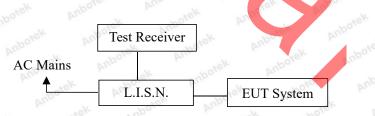
Test Standard EN 55014-1

	Frequency	At mains te	erminals (dBμV)
	(MHz)	Quasi-peak Level	Average Level
Test Limit	0.15 ~ 0.50	66.0 ~ 56.0*	59.0 ~ 46.0*
	0.50 ~ 5.00	56.0	46.0
	5.00 ~ 30.00	60.0	50.0

Limits for conducted emissions

**Remark:** (1) The lower limit shall apply at the transition frequencies. (2) The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to

### 2.2. Test Setup



### 2.3. EUT Configuration on Measurement

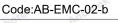
The following equipments are installed on Conducted Emission Measurement to meet EN 55014–1 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

### 2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT as shown in Section 2.2.
- 2.4.2. Turn on the power of all equipments.
- 2.4.3. Let the EUT work in test mode and measure it.

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Page 9 of 27

### 2.5. Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network(L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the EN 55014-1 regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz.

The frequency range from 150kHz to 30MHz is investigated for AC mains.

All the test results are listed in Section 2.6.

### 2.6. Test Results

PASS

The test curves are shown in the following pages.

#### Shenzhen Anbotek Compliance Laboratory Limited

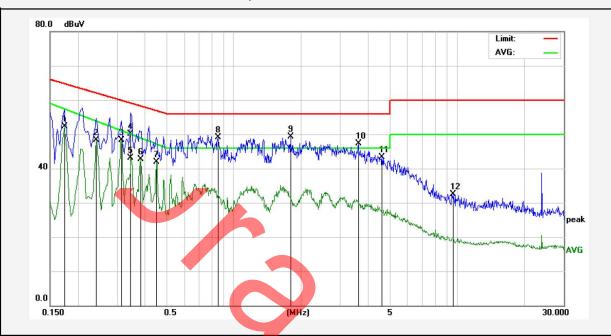
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com Code:AB-EMC-02-b



Page 10 of 27

### **Conducted Emission Test Data**

Test Site:	1# Shielded Room
Test Specification:	DC 5V via adapter
Comment:	Live Line
	Temp.: 24.3℃ Hum.: 62%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1740	32.38	19.90	52.28	57.39	-5.11	AVG	
2	0.2420	28.34	19.89	48.23	53.83	-5.60	AVG	
3	0.3140	28.46	19.90	48.36	51.02	-2.66	AVG	
4	0.3460	30.21	19.91	50.12	59.06	-8.94	QP	
5	0.3460	23.20	19.91	43.11	49.97	- <mark>6.86</mark>	AVG	
6	0.3820	22.80	19.93	42.73	48.90	-6.17	AVG	
7	0.4500	22.02	19.96	41.98	47.14	-5.16	AVG	
8	0.8500	29.11	20.08	49.19	56.00	- <mark>6.81</mark>	QP	
9	1.7940	29.11	20.14	49.25	56.00	-6.75	QP	
10	3.6180	27.09	20.17	47.26	56.00	-8.74	QP	
11	4.6099	23.03	20.20	43.23	56.00	-12.77	QP	
12	9.5819	12.19	20.33	32.52	60.00	-27.48	QP	

Note:

Result=Reading+Factor Over Limit=Result-Limit

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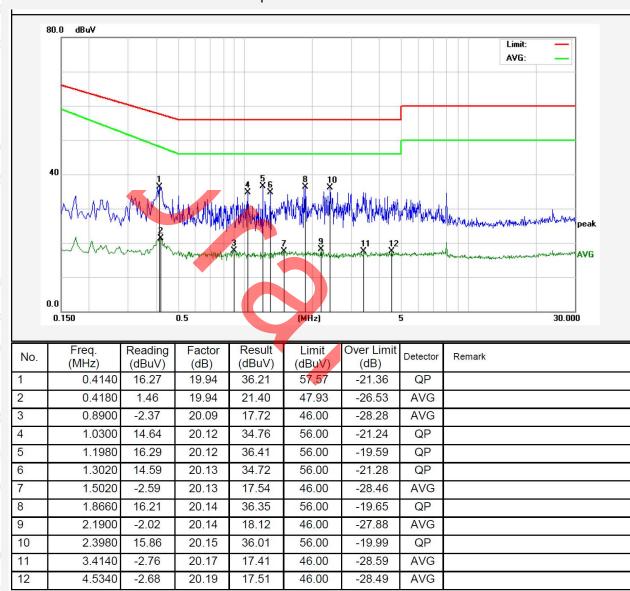
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com





Page 11 of 27

Test Site:	1# Shielded Room
Test Specification:	DC 5V via adapter
Comment:	Neutral Line
	Temp.: 24.3℃ Hum.: 62%



Note:

Result=Reading+Factor Over Limit=Result-Limit

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Page 12 of 27

## 3. Disturbance Power Test

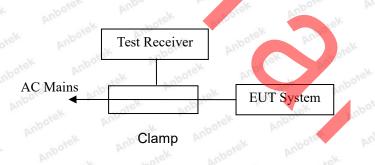
### 3.1. Test Standard and Limit

Test Standard	EN 55014-1	s nbotek	Anboro	Ann botek	Anbotek	Anbo
---------------	------------	----------	--------	-----------	---------	------

por pr	Distuit		AT MOTOR			
	Frequency	At mains terminals (dBµV)				
Test Limit	(MHz)	Quasi-peak Level	Average Level			
		45 Increasing Linearly with Frequency to 55	35 Increasing Linearly with Frequency to 45			

## Disturbance Power Test Limit

### 3.2. Test Setup



### 3.3. EUT Configuration on Measurement

The EN 55014-1 Regulations test method must be used to find the maximum emission during disturbance power measurement. The configuration of the EUT is the same as used in conducted emission measurement.

### 3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT as shown in Section 3.2.
- 3.4.2. Turn on the power of all equipments.
- 3.4.3. Let the EUT work in test mode and measure it.

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Page 13 of 27

### 3.5. Test Procedure

The EUT is placed on the ground and away from other metallic surface at least 0.8m. It is connected to the power mains through an extension cord of 6m min. The absorber clamp clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the test receiver(R&S ESCI) is set at 120kHz.

All the test results are listed in Section 3.6.

### 3.6. Test Results

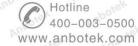
PASS

The frequency spectrum from 30MHz to 300MHz is investigated.

The test curves are shown in the following pages.

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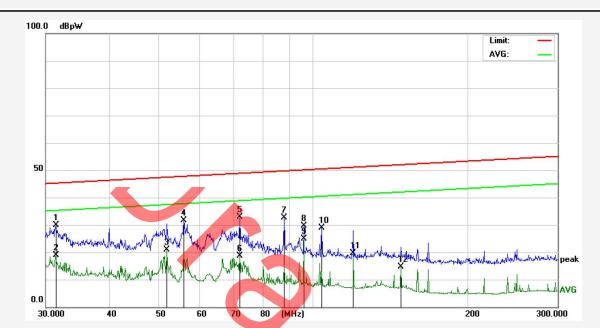


### **Power Clamp Test Data**

Page 14 of 27

Test Site:	1# Shielded Room
Test Specification:	DC 5V via adapter
Comment:	AC LINE

#### Temp.: 24.3℃ Hum.: 62%



No.	Freq. (MHz)	Reading (dBpW)	Factor (dB)	Result (dBpW)	Limit (dBpW)	Over Limit (dB)	Detector	Remark
1	31.4399	2.12	27.81	29.93	45.20	-15.27	QP	
2	31.4399	-9.02	27.81	18.79	35.20	- <mark>16.4</mark> 1	AVG	
3	51.7999	-4.88	25.76	20.88	37.37	-16.49	AVG	
4	55.8799	6.08	25.48	31.56	47.70	-16.14	QP	
5	71.8800	6.38	26.39	32.77	48.79	-16.02	QP	
6	71.8800	-7.71	26.39	18.68	38.79	-20.11	AVG	
7	87.8800	8.15	24.37	32.52	49.67	-17.15	QP	
8	95.8800	5.35	24.23	29.58	50.05	-20.47	QP	
9	95.8800	0.64	24.23	24.87	40.05	-15.18	AVG	
10	103.8399	4.38	24.55	28.93	50.39	-21.46	QP	
11	119.8400	-4.70	24.41	19.71	41.01	-21.30	AVG	
12	148.4800	-9.12	23.83	14.71	41.95	-27.24	AVG	

Note:

Result=Reading+Factor Over L

or Over Limit=Result-Limit

#### Shenzhen Anbotek Compliance Laboratory Limited

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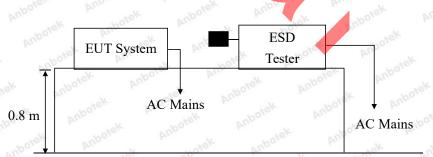
## 4. Electrostatic Discharge Immunity Test

### 4.1. Test Standard and Level

Test Standard:	EN 5	55014-2 (IEC	61000-4-2)	obotek	Anboten	Anbu
Performance Criterion:	В	Anbotek	Anbo	A. nbotek	Anboto	Ann
Severity Level: 3 / Air Discharge:	+8kV Leve	el·2/Contac	t Discharge: +4	1kV	r anboto	P

**Test Level** Test Voltage Test Voltage Level Contact Discharge (kV) Air Discharge (kV) 1. ±2 ±2 2. ±4  $\pm 4$ 3. ±6 ±8 ±8 4. ±15 Х Special Special

### 4.2. Test Setup



### 4.3. EUT Configuration on Measurement

The following equipments are installed on Electrostatic Discharge immunity Measurement to meet EN 55014-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

### 4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT as shown on Section 4.2.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3. After that, let the EUT work in test mode measure it.

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Page 16 of 27

### 4.5. Test Procedure

### 4.5.1. 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

### 4.5.2. Contact Discharge:

All the procedure shall be same as Section 4.5.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

### 4.5.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

### 4.5.4. Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions  $0.5m \times 0.5m$ , 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.

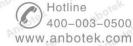
# 4.6. Test Results

PASS

### Please refer to the following page.

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Anbotek Product Safety

#### Report No.: 18250EC00046201

Page 17 of 27

# **Electrostatic Discharge Test Results**

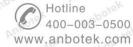
Air discharge :	±8.0kV	Temperature :	24.2℃
Contact discharge :	±4.0kV	Humidity :	47%
Power Supply :	DC 5V via adapter	Expert conclusion :	A Anboten And
Number of discharge :	10 polet publick polet	Test Result:	🛛 Pass 🗌 Fail

An hotek Anboten Ar	tek spotek	Kind	Anboten	PUP
Locatio	on <sup>bo</sup>	A-Air Discharge	Res	sult Mabo
lek Anbo. A. hotek	Anbore, And And	C-Contact Discharge	v no	Yek Ar
Slot	2 points	K abotek Anbot	⊠A	□В
Slot And		All A	offer C	DD
Light	4 points	oten Anbe	A 🗹 🗞	□В
Light	4 points	abotek Anbor	ПС	D Doote
Button	2 points	A Anboren A Anboren ek	⊠ A	B
K Anbo		Ant tek pobotek	□C	DD
HCP house hubble	4 points	Anbor	⊠ A	ПΒ
offici Ante stak Anbolek	A points a hote	Anbore And	ПС	D
VCP of the front	4 points	tek unboten Ant	⊠ A	□В
	4 points	welt whotek	C D C	DD
VCP of the rear	4 points	nbore C shotek	⊠ A	□В
	Anboile 4 points	Anboten Anbo	ПC	D DANDON
VCP of the left	4 points	Anbotek C Anbor	⊠ A	B
	4 points	An hotek Anbore	□C	DD
VCP of the right	1 pointe	C <sup>M</sup> And	⊠ A 🗹	□В
	4 points	tek Anbi An	wote <sup>k</sup> □ C	D
Anbore And Anborek Anb	otek Anbo A	botek Anbote P	Anbotek	Anbotek
Ante Anbotek Anbotek	nbor Anbotek	Anbotek Anbotek	Anbotek	k Aupor

**Remark:** Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

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Page 18 of 27

# **APPENDIX I -- TEST SETUP PHOTOGRAPH**



Photo of Power Line Conducted Emission Test

#### Photo of Disturbance Power Test



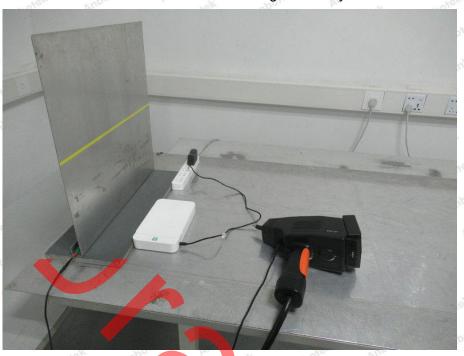
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Page 19 of 27



Anbot Photo of Electrostatic Discharge Immunity Test

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Page 20 of 27

# **APPENDIX II -- EXTERNAL PHOTOGRAPH**

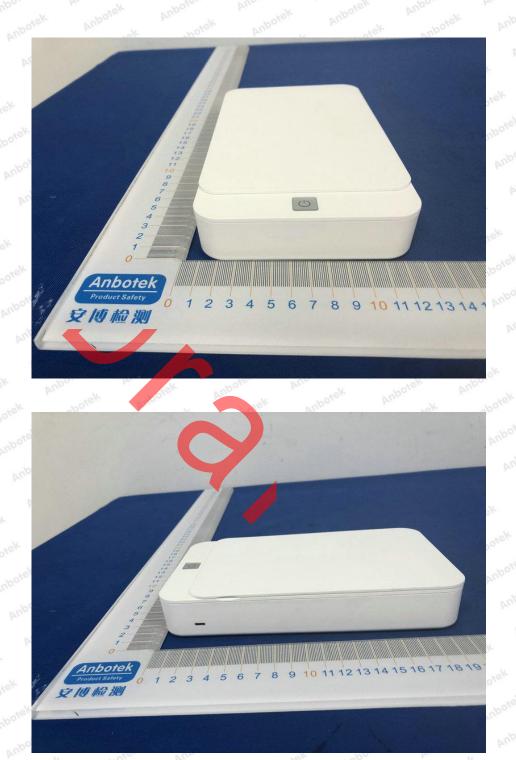


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Page 21 of 27



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Page 22 of 27



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Page 23 of 27



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Page 24 of 27

# **APPENDIX III -- INTERNAL PHOTOGRAPH**





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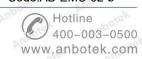
Page 25 of 27





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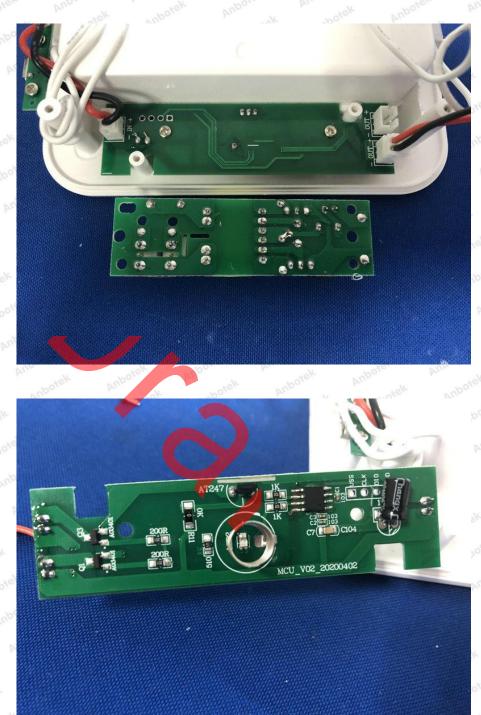
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Page 26 of 27



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Page 27 of 27

### CE Label

- 1. The CE conformity marking must consist of the initials 'CE' taking the following form:
  - If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
- 2. The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
- 3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
- The CE marking must be affixed visibly, legibly and indelibly.
  It must have the same height as the initials 'CE'.

---- End of Report ------

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