

Page 1 of 30

# EMC Test Report

Client Name

Address

Product Name : POWER BANK

Date : Mar. 01, 2019

# 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



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Report No.: SZABE190223003-01

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# TEST REPORT

Applicant	And	
Manufacturer	P	
Product Name	*	POWER BANK
Model No.	otek	
Trade Mark	. eV	
Rating(s)	nbor	Input:
ek nbotek		Micro Input: 5V=== 2A
		Type-C Input: 5V=== 2A
		Type-C Cable Input: 5V=== 3A(Max)
		Battery: 3.7V/10000mAh/37Wh
		Output:
Am		USB Output: 5V=== 2.4A
		Type-C Cable Output: 5V=== 3A(Max)
		Lightning&Micro Cable Output: 5V=== 2A(Max)
		Total Output: 5V=== 3A(Max)
Test Standard(s)	tek	EN 55032: 2015; EN 55024: 2010+A1: 2015; (IEC 61000-4-2; IEC 61000-4-3)

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. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN 55032 and EN 55024 requirements.

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

v ater An					
Date of Receipt:	otek Anbote And	Anbotek Anbote Feb	o. 23, 2019		
Date of Test:	Anbotek Anbot A	Feb. 23	~Mar. 01, 2019		
Anbotek Anbotek		Anbotek A'O	vay larg Andotek		
Prepared By:	And				
Anbouced Ly And	compliance Zabo	(Engined	er / Oliay Yang)	otek Anbote	10
	e Standard Stand Standard Standard St	potek And tek	ell Wang		
Reviewer:	AnDotek Product Safety	rek npo		motek I	Ink
	QUI TO	(Supervis	sor / Well Wang)		
	* Approved *	Sal	y zhong		
Approved & Authorize	d Signer:	Ant ok	hotek anbor		
All bote	Anbo	(Manage	r / Sally Zhang)	oten Anbor	
		k (manage	Anboy Ending		
Shenzhen Anbotek Complia	ance Laboratory Limited		hotek Co	de AB-EMC-02-a	

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1. General Information

## 1.1. Client Information

Applicant	:	Anbo		notek	Anbots	Pun	18K	abotek	Aupor	X
Address	:									otek
Manufacturer	:	n <sup>1-otek</sup>	Anbote	Anb	. ok	hotek	Anbo		_tek	Anbou
Address	:									P
Factory	:	P	n					le)	6 D	unbotek
Address	:	8								Anbe

## 1.2. Description of Device (EUT)

Product Name	:	POWER BANK
Model No.	:	An Anbotek
Trade Mark	:	otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	DC 5V for adapter / DC 3.7V by battery
Test Sample No.	:	S1 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Product Description	:	Adapter: N/A
20° 010		e detailed features description, please refer to the manufacturer's specifications 's Manual.

## 1.3. Auxiliary Equipment Used During Test

- N/A
- ek Anboten Anbou All

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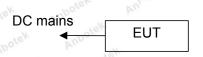


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#### **1.4. Description of Test Modes**

Pr	retest Modes		Descriptions		
abotek	Mode 1	A11-	Micro Charging	Anboten	Anbo
Anbotek	Mode 2	we wotek	Type-C Charging	aboten	Anos
Anbotek	Mode 3		Discharging		otek

#### For Mode 1-Mode 2 Block Diagram of Test Setup



For Mode 3 Block Diagram of Test Setup

EUT Full Load

## 1.5. Test Summary

Test Items	Test Modes	Statu	IS
Power Line Conducted Emission Test (150KHz To 30MHz)	k Anbos	Anboten	PU
Radiated Emission Test (30MHz To 1000MHz)	All Mode	AntP	otek
Electrostatic Discharge immunity Test	All Mode	en P	nbotek
RF Field Strength susceptibility Test	All Mode	nbotek P	Anbot
Electrical Fast Transient/Burst Immunity Test	kek Anborek	Anbotek	An
Surge Immunity Test	abotek / Anbotek	Anbote	etek.
Injected Currents Susceptibility Test	Anbotek / Anbot	N N	nbotek
Magnetic Field Susceptibility Test	Anboten An	onbotek N	Anbote
Voltage Dips and Interruptions Test	tek Anborek	Anbotek	Ant
<ul><li>P) Indicates "PASS".</li><li>N) Indicates "Not applicable".</li></ul>	nbotek Anbotek	Anbotes	otek

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## 1.6. Test Equipment List

#### Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1,00	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 05, 2018	1 Year
2.	Pre-amplifier	Schwarzbeck	BBV-9745	9745-075	Nov. 05, 2018	1 Year
3.	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	Nov. 05, 2018	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	EMEC-3A1	N/A	N/A	N/A

#### Electrostatic Discharge Measurement

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
N	1. 🔊	ESD Simulators	3Ctest	EDS-30T	ES0131505	Nov. 26, 2018	1 Year 🔊

#### **R/S Immunity Measurement**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1An	Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
2	Amplifier	Amplifier Research	150W1000M3	309410	ek N/A potek	N/A'soot
·>•3 <sup>·*</sup>	Amplifier	Amplifier Research	60S1G3	309433	N/A	N/A
A 4 01	Log-Periodic Antenna	Schwarzbeck	VULP9118E	00992	Aug. 17, 2018	3 Year
5 <sup>.nt</sup>	Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 19, 2018	3 Year
6	Power Sensor	Agilent	E9301A	MY41498906	Nov. 05, 2018	1 Year
7	Power Sensor	Agilent	E9301A	MY41498088	Nov. 05, 2018	1 Year
8	Power Meter	Agilent	E4419B	GB40202909	Nov. 05, 2018	1 Year
9	Field Probe	ETS-Lindgren	HI-6006	00212747	Apr. 20, 2017	3 Year
10	software	EMtrace	EM 3	N/A	N/A	N/A

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## 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 registed 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, July 31, 2017.

## ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

## **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

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## **1.8. EMS Performance Criteria**

- 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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## Code:AB-EMC-02-a

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## 2. Radiated Emission Test

## 2.1. Test Standard and Limit

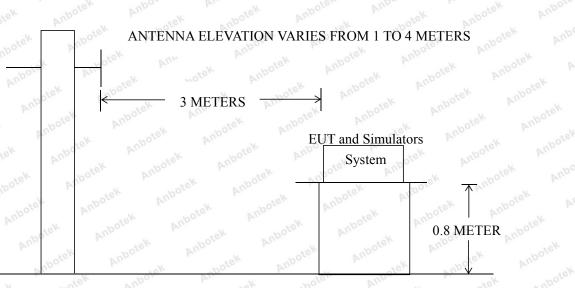
Test Standard	EN 55032	All-	aboten	Anbo	Anb	otek	Anbotek
---------------	----------	------	--------	------	-----	------	---------

Anboten Anbo	Radiated Emis	sion Test Limit	otek					
Test Limit	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBµV/m)					
	30 ~ 230	3	40					
	230 ~ 1000	3	47					
Remark: (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.

- (3) 3M Limit=10M Limit+k k=20log(D1/D2)=10
  - 3M Limit=10M Limit +10
  - (D1= 10M D2=3M)

## 2.2. Test Setup



**GROUND PLANE** 

## 2.3. EUT Configuration on Measurement

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

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## 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.

## 2.5. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table 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. Bilog antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESCI) is set at 120kHz.

The EUT is tested in 9\*6\*6 Chamber.

The test results are listed in Section 2.6.

## 2.6. Test Results

PASS

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

The test curves are shown in the following pages.

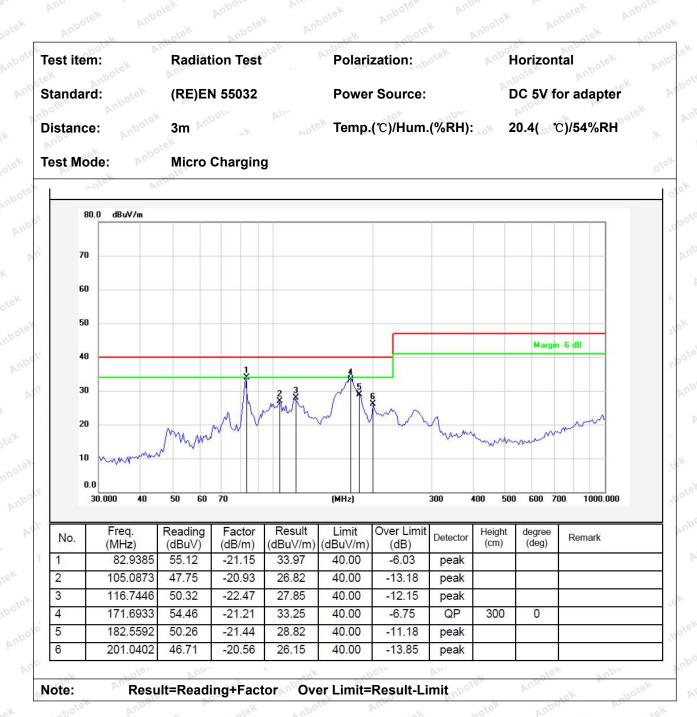
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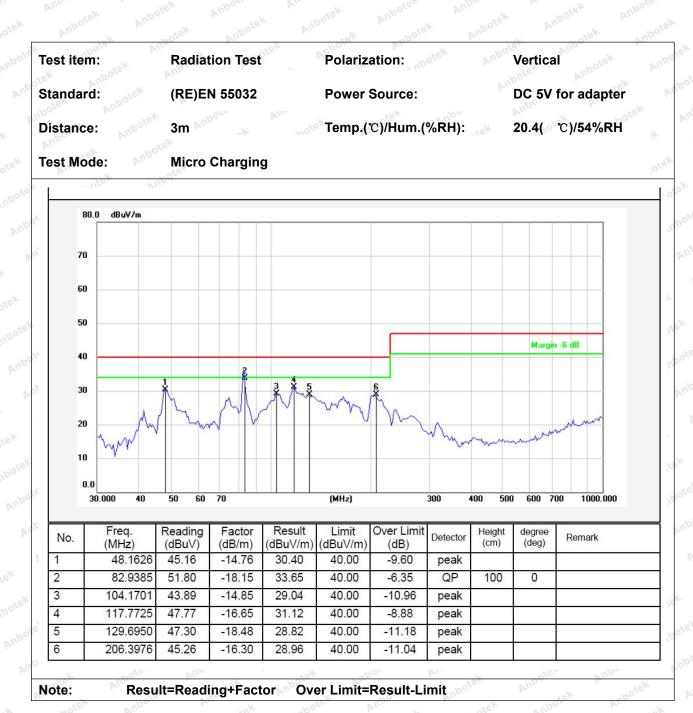


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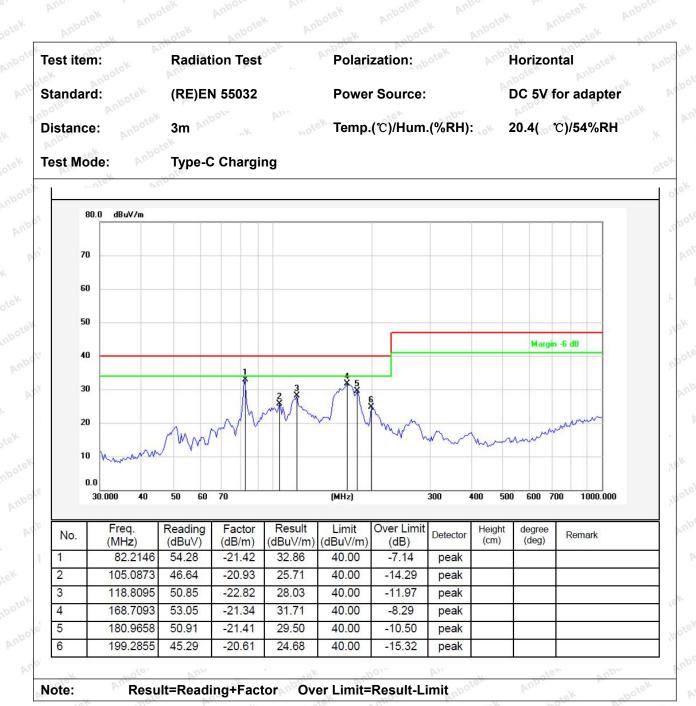


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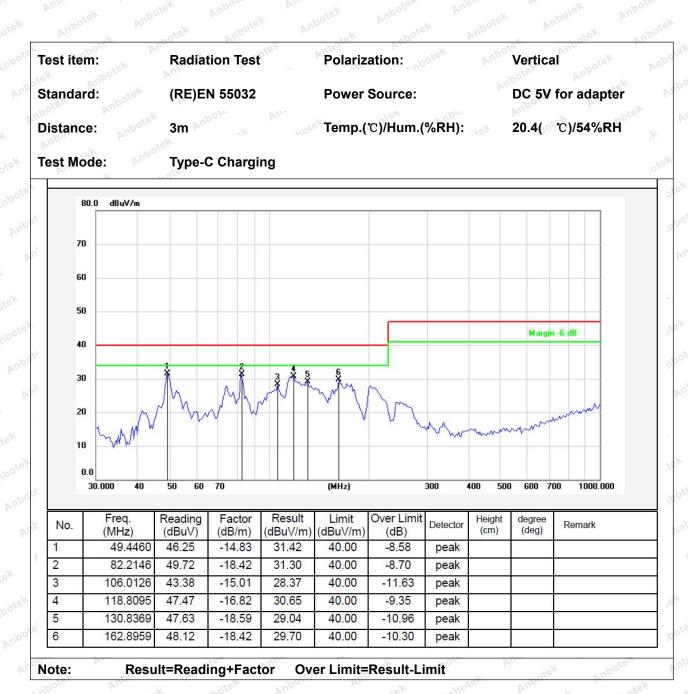


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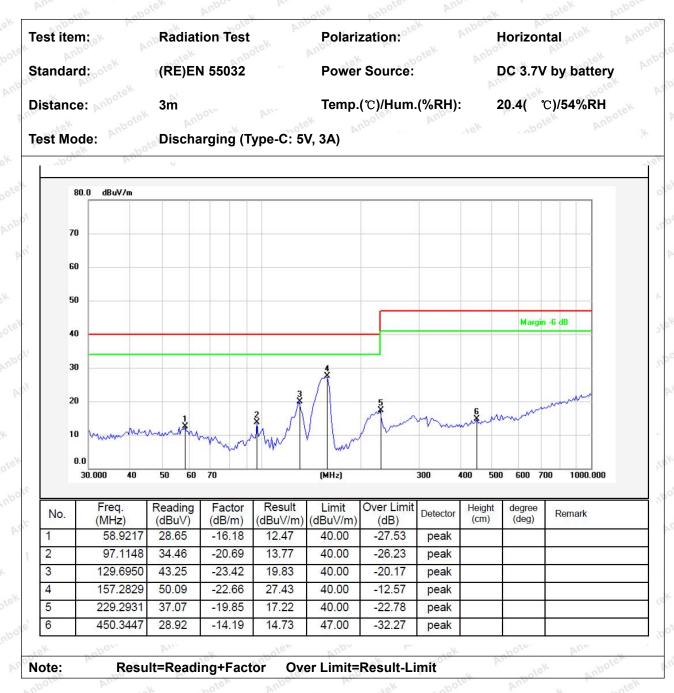
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# Anbotek Product Safety

## Report No.: SZABE190223003-01

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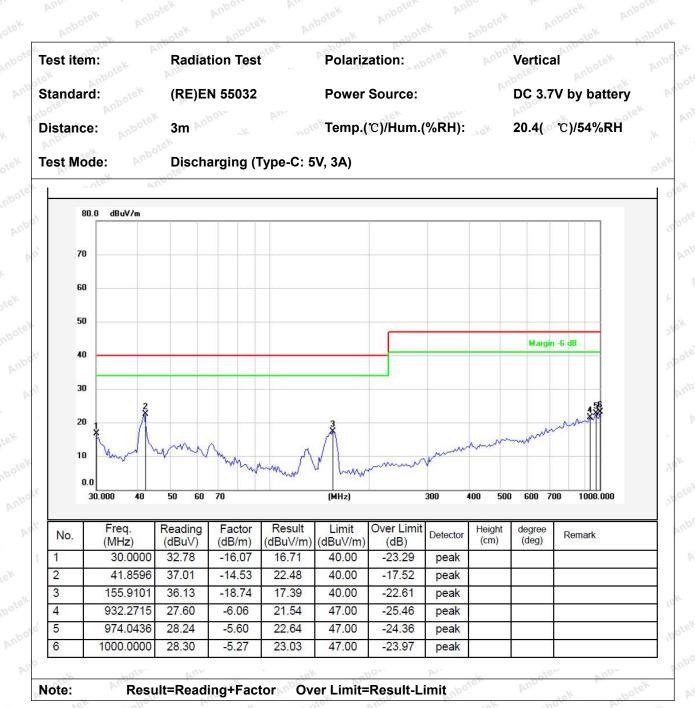


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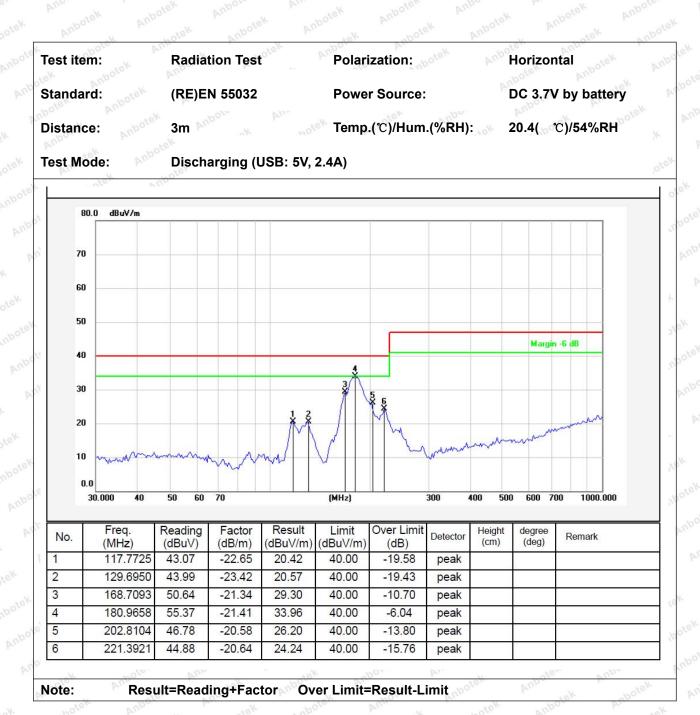


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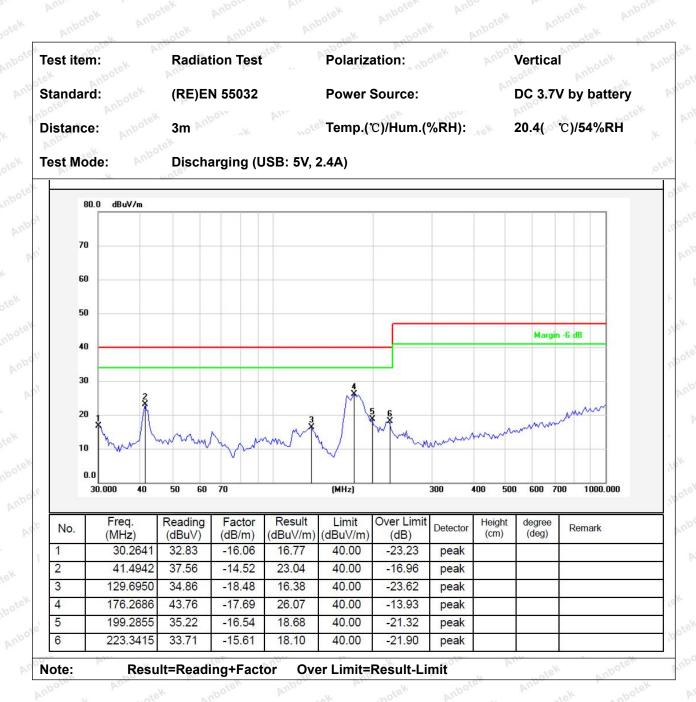


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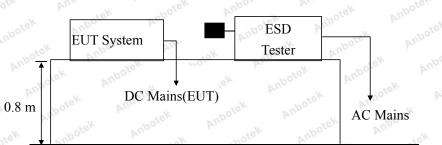
## 3. Electrostatic Discharge Immunity Test

## 3.1. Test Standard and Level

Test Standard:	EN 55024 (IEC 61000-4-2)	Anbotek
Performance Criterion:	B	
Severity Level: 3 / Air Discharge	e: +8k\/ Level: 2 / Contact Discharge: +4k\/	oten

305	tek Anbote	Test Level	hotek Anbote. Any tek
P	Level	Test Voltage Contact Discharge (kV)	Test Voltage Air Discharge (kV)
	Anbo ntel A	t2	±2
	And 2.ek	Anbotek An ±4	±4 <sup>lek</sup> Anb <sup>ore</sup>
(e)	And 3. otek	Endot ±6	±8
100	4. 4. botek	ed ±8	±15
P	born X. An pot	Special	Special

## 3.2. Test Setup



## 3.3. EUT Configuration on Measurement

The following equipments are installed on electrostatic discharge immunity measurement to meet EN 55024 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

## 3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT as shown on Section 3.2.
- 3.4.2. Turn on the power of all equipments.

## 3.4.3. After that, let the EUT work in test mode measure it. Shenzhen Anbotek Compliance Laboratory Limited

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## 3.5. Test Procedure

## 3.5.1. 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 25 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

## 3.5.2. Contact Discharge:

All the procedure shall be same as Section 3.5.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

## 3.5.3. Indirect discharge for horizontal coupling plane

At least 50 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.

## 3.5.4. Indirect discharge for vertical coupling plane

At least 50 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.

## 3.6. Test Results PASS

## Please refer to the following page.

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# **Electrostatic Discharge Test Results**

Air discharge :	±8.0kV	Temperature :	22.5℃
Contact discharge :	±4.0kV	Humidity :	47%
Power Supply :	DC 5V for adapter / DC 3.7V by battery	Criterion required :	B
Number of discharge :	25	Test Result:	🛛 Pass 🔲 Fail

Anbotek Anbotek Location		Kind	Result	
		A-Air Discharge C-Contact Discharge		
Anbor Ar		C-Contact Discharge		DIDOLEN
Slot of the EUT	10 points	A		
Others	8 points	А		
USB Port	2 points	otek Ant Antek Ant		B
Charging Port	2 points	Linbotek Anbotek		Rootek
Metal surface of EUT	2 points	Anbotek C Anbotek		
HCPA Antotek Antotek	4 points	Anboren Anbore		
VCP of the front	4 points	mbotek Cootek		
VCP of the rear	4 points	Anbotek C Anbotek		
VCP of the left	4 points	Anbotek Anbote		
VCP of the right	4 points	obotek Anborek A		
Anbotek Anbotek A	nbotek Anbour P	Anbotek Anbotek	Anborotek	Anboth
otek Anbotek Anbotek	Anbotek Anbotek	Anboten Anbo	Anbotek	

and Vertical Coupling Plane (VCP).

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# Anbotek Product Safety

Report No.: SZABE190223003-01

## 4. RF Field Strength Susceptibility Test

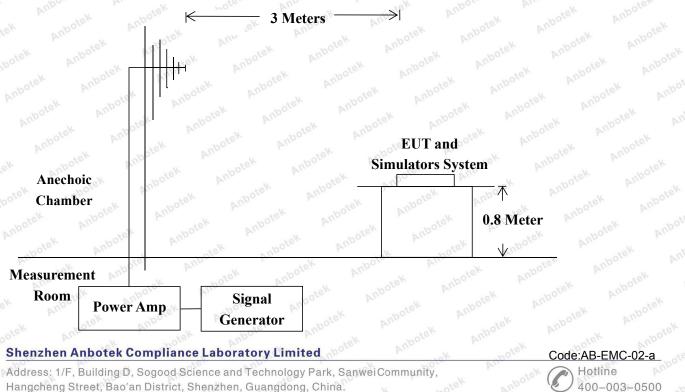
## 4.1. Test Standard and Level

EN 55024 (IEC 61000-4-3)
Albor Am tek anboten Anbo k Am otek Anboten
80MHz to 1000MHz
3 V/m
1kHz Sine Wave, 80%, AM Modulation
1 % of preceding frequency value
Horizontal and Vertical
3 m
1.5 m
at least 0.5s

#### Test Level

	Field Strength
Level	V/m
anbotek Anbol.	k hotek Anboten Anbo tek hotek Anbote Kan
A2.010	And atek Andotek Andoo ok 3 hotek Andoo tek
botek 3.nb	and tek anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
X.	nbole And tek polek Anbole Special dek mootek Anbo

## 4.2. Test Setup



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## 4.3. EUT Configuration on Measurement

The following equipments are installed on RF Field Strength susceptibility Measurement to meet EN 55024 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.

## 4.5. Test Procedure

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber. The testing distance from antenna to the EUT was 3 meters.

- 1) The field strength level was 3V/m.
- 2) The frequency range is swept from 80 MHz to 1000 MHz with the signal 80% amplitude modulated with a 1kHz sine wave.
- 3) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond, but shall in no case be less than 0.5s.
- 4) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

## 4.6. Measuring Results

## PASS

Please refer to the following page.

#### Shenzhen Anbotek Compliance Laboratory Limited

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





KER.

Report No.: SZABE190223003-01

# RF Field Strength Susceptibility Test Results

Field Strength :	3V/m	Temperature :	<b>22.5</b> ℃
Criterion required :	About Am	Humidity :	47%
Power Supply :	DC 5V for adapter / DC 3.7V by battery	Test Result :	Pass 🗌 Fail
Dwell Time:	1s		mbo

Frequency Range (MHz)	Antenna Polarity	R.F. Field Strength	Azimuth	Result
Anbotek Anbot	en An		Front	iek Anbou
80~1000	H/V	3 V/m (rms) AM Modulated	Rear	🗹 A 🗆 B 🕅
Anbolek Anbolek	Anbotek	1000Hz, 80%	Ann Left Anbo	
Anboten Anbo		Anbout Anthone Anthone Anthone Anthone	Right	bor A. Anbotek

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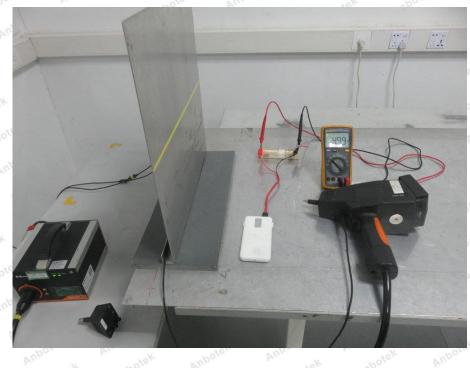




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# **APPENDIX I -- TEST SETUP PHOTOGRAPH**

#### Photo of Electrostatic Discharge Immunity Test



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Photo of RF Field Strength susceptibility Test



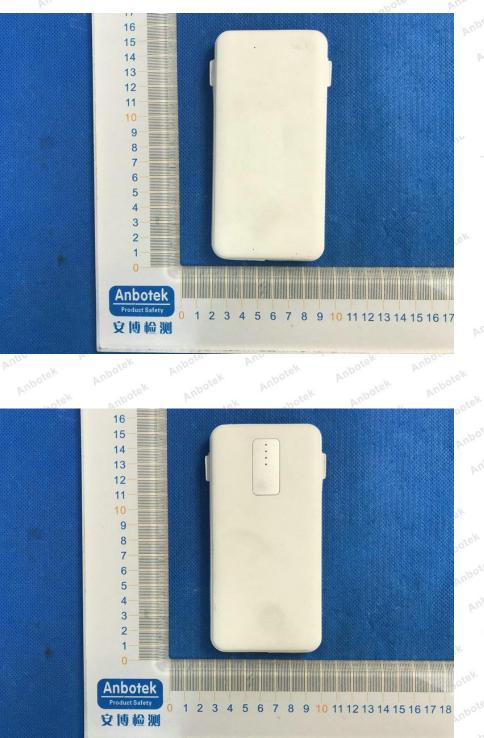
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# APPENDIX II -- EXTERNAL PHOTOGRAPH



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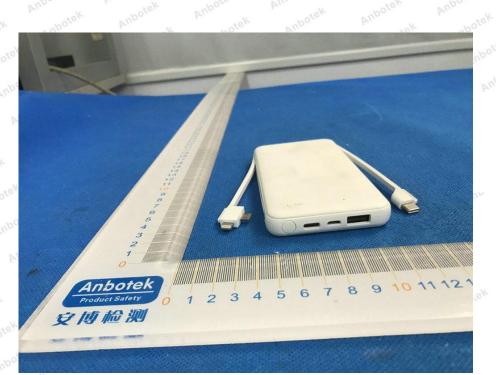
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# **APPENDIX III -- INTERNAL PHOTOGRAPH**





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**Product Safety** 

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## **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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