

Page 1 of 21

## EMC Test Report

Client Name	: RAYTALK COMMUNICATIONS LTD				
Client Address	3rd Floor, Building C, Kemron Science & Technology Park, Guansheng 5th Road, Longhua District, Shenzhen, China, 518110				
Product Name	: Headset Adapter Cable				
abotek Anbor	At hotek Anboten And tek upotek Anbo				

Report Date : Aug. 23, 2022



## 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) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com



## Anbotek Product Safety

#### Report No.:18230EC20201101

Page 2 of 21

## Contents

1. General Information	Ann				4
1.1. Client Information	Anbo			Ann	
1.2. Description of Device (EUT)	penbolie.			W. Dupo.	4
1.3. Auxiliary Equipment Used Duri	ng Test	ek anbo		walt wat	
1.4. Description of Test Mode		and the second second	ster Ann		
1.6. Test Equipment List	pote. An		dpotek	inbo.	6
1.7. Description of Test Facility		Anbo		pabone	7
1.8. EMS Performance Criteria	r	nbore	Am	hoter	7
2. Radiated Emission Test	Aur	Anbotek	Anbu		
2.1. Test Standard and Limit	Anbu		hupore		8
2.2. Test Setup	ex polor			ster Anb	8
2.3. EUT Configuration on Measure 2.4. Operating Condition of EUT	ement	oten Anbo			
2.4. Operating Condition of EUT		iq	pore P		9
2.5. Test Procedure	unpore.		boten	Anb	9
2.6. Test Results		Anbo	watek		9
3. Electrostatic Discharge Immunity les	t				
3.1. Test Standard and Level	P	K. burboter	Anbo		
3.2. Test Setup	Anb		ek Aupo		12
3.3. EUT Configuration on Measure	ement	0 b		iboten Al	
3.4. Operating Condition of EUT		aboten An			
3.5. Test Procedure			PUD-		13
3.6. Test Results	Anbo	Paris and Paris	poboter	Anu	13
4. RF Field Strength Susceptibility Test	nbote	Anu		Anbor	15
4.1. Test Standard and Level		Anbo		<sup>6</sup> 400,000	
4.2. Test Setup 4.3. EUT Configuration on Measure		tek poboti	PUL		
4.3. EUT Configuration on Measure	ement		otek An	00°.	
1.4 Operating Condition of FUT					PILL 1C
4.4. Operating Condition of E01 4.5. Test Procedure 4.6. Measuring Results		pabore	All and a second	Kubotek	16
APPENDIX I TEST SETUP PHOTOG	RAPH		Aupore	Pur	
APPENDIX II EXTERNAL PHOTOGR	APH	An	K	Anbu Anbu	

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Page 3 of 21

## TEST REPORT

Applicant :	RAYTALK COMMUNICATIONS LTD
Manufacturer :	RAYTALK COMMUNICATIONS LTD
Product Name :	Headset Adapter Cable
Model No. :	CB-01, CB-02, CB-03, CB-04, CB-05, CB-06, CB-07, CB-08, CB-09, CB-10, CB-11, CB-12, CB-13, CB-14, CB-14N, CB-15, CB-16, CB-17, CB-24, CB-31
Trade Mark :	N.A. Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Rating(s) :	eN.A. Anbotek
Test Standard(s) :	BS BS EN 55032: 2015+A11: 2020; BS BS EN 55035: 2017+A11: 2020; (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 BS EN 55032, BS EN 55035 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.

Date of Receipt	Date	te o	Red	ceipt
-----------------	------	------	-----	-------

Date of Test:

Reviewer:

Aug. 12, 2022

Aug. 12~Aug. 22, 2022

Yee Huang

(Yee Huang)

(KingKong Jin)

#### Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer:

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## 1. General Information

#### 1.1. Client Information

Applicant	: RAYTALK COMMUNICATIONS LTD
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Manufacturer	: RAYTALK COMMUNICATIONS LTD
Address	: 3rd Floor, Building C, Kemron Science & Technology Park, Guansheng 5th Road, Longhua District, Shenzhen, China, 518110
Factory	: RAYTALK COMMUNICATIONS LTD
Address	: 3rd Floor, Building C, Kemron Science & Technology Park, Guansheng 5th Road, Longhua District, Shenzhen, China, 518110

#### 1.2. Description of Device (EUT)

Product Name	:	Headset Adapter Cable
Model No.	:	CB-01, CB-02, CB-03, CB-04, CB-05, CB-06, CB-07, CB-08, CB-09, CB-10, CB-11, CB-12, CB-13, CB-14, CB-14N, CB-15, CB-16, CB-17, CB-24, CB-31 (Note: All samples are the same except the model number & appearance, so we prepare "CB-01" for test only.)
Trade Mark	:	N.A. Andres Andres Andres Andres Andres Andres Andres Andres
Test Power Supply	:	N/A Anborek Anborek Anborek Anborek Anborek Anborek Anborek
Test Sample No.	:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Product Description	:	Adapter: N/A
101		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 4 of 21



#### Page 5 of 21

#### 1.4. Description of Test Mode

Pretest Mode		Description	
Mode 1	hoter And hotek	Anborek On Anbor	An abotek Anboten

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)	Anboten Anbo	ek N <sup>botek</sup>
Radiated Emission Test (30MHz To 1000MHz)	Mode 1	potek P Anbou
Electrostatic Discharge immunity Test	Mode 1	AnboteP An
RF Field Strength susceptibility Test	Mode 1	Antorek
Electrical Fast Transient/Burst Immunity Test	Anbotek / Anbo	Notek Nanbotek
Surge Immunity Test	Anborek Ar	Anbotek N Anbot
Injected Currents Susceptibility Test	orek Anbotek	Anboten An Notek
Magnetic Field Susceptibility Test	stbotek / Anbote	ek Anbotek
Voltage Dips and Interruptions Test	Anbon And	potek NAnboter
P) Indicates "PASS". N) Indicates "Not applicable".	Anbotek Anbotek	Anborek Ant

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#### Report No.:18230EC20201101

#### Page 6 of 21

#### **1.6. Test Equipment List**

#### Radiated Emission Measurement

60	K hoter	DI	101	01 P/	N. In	NOT AND
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
2.	Pre-amplifier	Schwarzbeck	BBV-9745	9745-075	Oct. 22, 2021	1 Year
3.	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	Oct. 22, 2021	2 Year
4.01	Software Name EZ-EMC	Ferrari Technology	EMEC-3A1	or <sup>ak</sup> N/A pri	N/A	ek N/Anoore

#### Electrostatic Discharge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.,	ESD Simulators	emtest	ESD NX30.1	11936	Mar. 25, 2022	1 Year

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
∗e¥-	Signal Generator	Agilent	N5182A	MY4818065 6	Oct. 22, 2021	1 Year
2,ek	Amplifier	Micotoop	MPA-80-100 0-250	MPA190309 6	Oct. 22, 2021	1 Year
3. <sup>100</sup>	Amplifier	Micotoop	MPA-1000-6 000-100	MPA190312 2	Oct. 22, 2021	1 Year
4.	Log-Periodic Antenna	Schwarzbeck	VULP9118E	00992	Anborek N/A Anb	N/A
5.	Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 22, 2021	2 Year
6.	Power Sensor	Agilent	E9301A	MY4149890 6	Oct. 22, 2021	1 Year
7. <sup>An</sup>	Power Sensor	Agilent	E9301A	MY4149808 8	Oct. 22, 2021	1 Year
8.	Power Meter	Agilent	E4419B	GB4020290 9	Oct. 22, 2021	1 Year
9.	Electric field Probe	Narda	EP 601	811ZX10351	Oct. 22, 2021	1 Year
10.	RS Test software	EMtrace	EM 3	V1.1.7	N/A	N/A

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Page 7 of 21

#### 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.

#### 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.

#### **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

- 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 21

#### 2. Radiated Emission Test

#### 2.1. Test Standard and Limit

Test Standard BS EN 55032	Pupo.	
---------------------------	-------	--

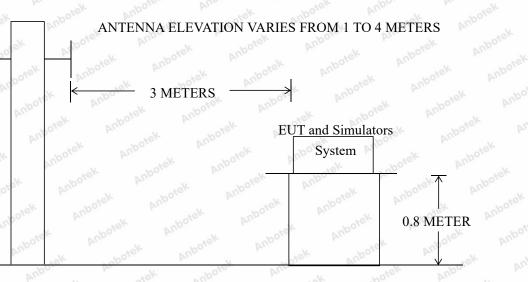
Radiated Emission Test Limi
-----------------------------

Test Limit	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBμV/m)	
	30 ~ 230	Anboten 3 Anbo	abor 40 Anbor	
	230 ~ 1000	ek Anbot3 Anbot	47 Anbo	

Remark: (1)The smaller limit shall apply at the combination point between two frequency bands.

- (2) Distancer efers 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 BS EN 55032 regulations test method must be used to find the maximum emission during radiated emission measurement.

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#### Page 9 of 21

#### 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.

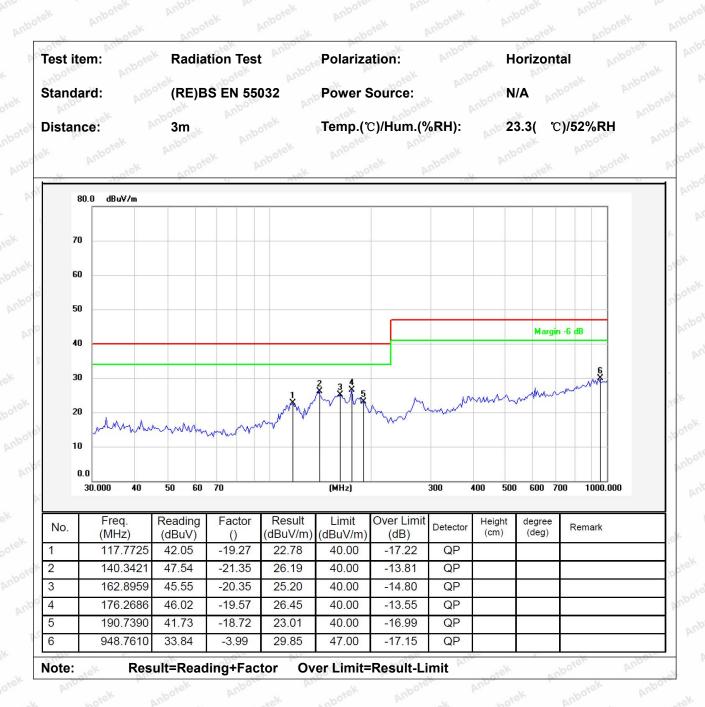
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Page 10 of 21



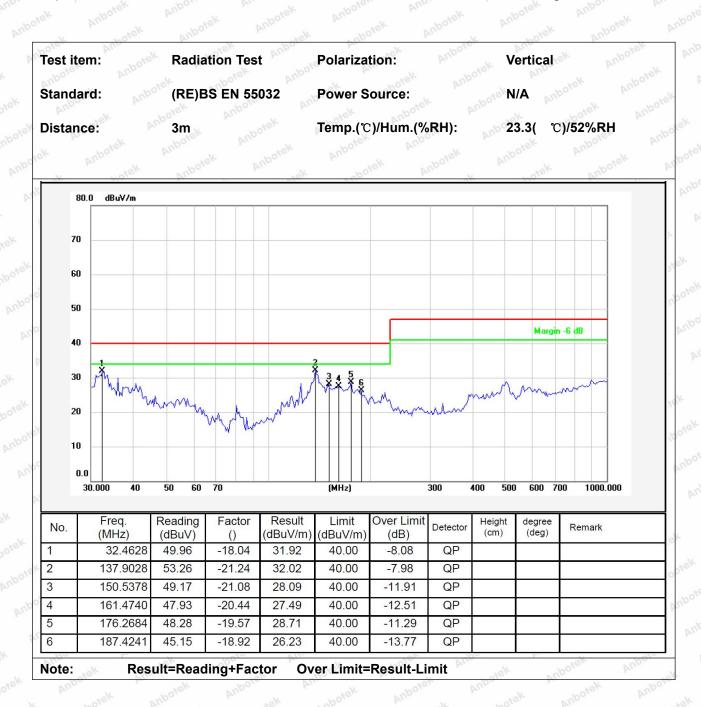
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Page 11 of 21



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Page 12 of 21

#### 3. Electrostatic Discharge Immunity Test

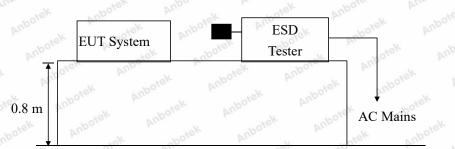
#### 3.1. Test Standard and Level

Test Standard:	BS I	EN 55035 (IE	EC 61000-4-2	) botek	Anbotek	Anbo
Performance Criterion:	В	Anbotek	Anbors	Annabotek	Anboten	Aupo
Soverity Lovel: 2 / Air Discharg	$101 \pm 010/(100)$	al: 2 / Canta	at Discharge	+4107	k boter	PL

Severity Level: 3 / Air Discharge: ±8kV, Level: 2 / Contact Discharge: ±4kV

	Anbote. And	Test Level	Anbotek And otek Anbotek
		Test Voltage	Test Voltage
14	Level	Contact Discharge (kV)	Air Discharge (kV)
	ek 1. otek	Anboren And the hot ±2 Anborek A	about An and the t2 Anboten And
0	atek 2. nbotek	Anbote And tak Anbotek	Anboret Anboret ±4 Anbore An
25	otek 3. phote	Anbore ±6otek Anboren	Ande Ande the Andere
	Ante Ante Anto	nek Anbo. ±8 horek Anbore	Anthe states Anthone states
6	Х.	Special	Special

#### 3.2. Test Setup



#### 3.3. EUT Configuration on Measurement

The following equipments are installed on electrostatic discharge immunity measurement to meet BS EN 55035 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.

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Page 13 of 21

#### 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 10 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 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.

#### 3.5.4. 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.

#### 3.6. Test Results

#### PASS

#### Please refer to the following page.

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Page 14 of 21

## **Electrostatic Discharge Test Results**

Air discharge :	±8.0kV	Temperature :	<b>22</b> °C
Contact discharge :	±4.0kV	Humidity :	50%
Power Supply :	N/A https://www.	Expert conclusion:	A Anboten Anbo
Number of discharge :	10 Minhole Antonio	Test Result:	🛛 Pass 🗌 Fail

Anborek Anborek Locat	ion Anbotek Anbotek	Kind A-Air Discharge C-Contact Discharge	Result
AUX IN Port	4 points	C-Contact Discharge	⊠A □B □C □D
AUX OUT Port	4 points	hek And C	⊠A □B □C □D
Slot notek	4 points	Anbotek A Anbotek	⊠A □B □C □D
HCP Andorek Andorek	4 points	Anborek C Anbor	⊠A □B □C □D
VCP of the front	4 points	rek Anb Cok Anb	⊠A □B □C □D
VCP of the rear	4 points	nootek Anborek P	ØA □B □C □D
VCP of the left	4 points	Antonek C Anborek	⊠A □B □C □D
VCP of the right	4 points	Anbote CA Ante	⊠A □B □C □D
Anbotek Anbotek An	botek Anbotek Anbo	potek Anbotek A	Anbotek Anbotek

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

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#### Page 15 of 21

#### 4. RF Field Strength Susceptibility Test

#### 4.1. Test Standard and Level

Test Standard:	BS EN 55035 (IEC 61000-4-3)
Required Performance:	A hover Andreak Andreak Andreak Andreak Andreak
Frequency Range:	80MHz to 1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of preceding frequency value
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m And solek Anborek Anbore And sek Anborek Anbore And
Antenna Height:	1.5 m Andrek Andrek Andrek Andrek Andrek Andrek
Dwell Time:	at least 0.5s
allow the	yore Ant tek abor h. ak note

Test Lev	/el
1001 20	

Level		Field Strength V/m						
Ame	ote <sup>k</sup> 1.	Anbotek A	hbo. k	abotek	Anbote 1	Ano	Anbotel	r Pup
oton Ant	2.	Anbotek	Aupo, stek	Anbotek	Anbol 3	K -botek	Anbr	pter p
Anbor	3.104	Anboten	Anburgetek	Anbotek	10	rek ph	rek A	nboten
Anboundtek	X.,	K Anbore	And And	ek Anbot	Specia	al tek	potek	Anboren

4.2. Test Setup

Anechoic Chamber

**Power Amp** 

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**Shenzhen Anbotek Compliance Laboratory Limited** 

Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Measurement Room

**3 Meters** 

Signal

Generator

ĸ

EUT and **Simulators System** 

> 不 0.8 Meter

> > Hotline

Page 16 of 21

#### 4.3. EUT Configuration on Measurement

The following equipments are installed on RF Field Strength susceptibility Measurement to meet BS EN 55035 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.

- 80 MHz to 1000 MHz the field strength level was 3V/m, 1800MHz, 2600MHz, 3500MHz, 5000MHz 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.
- The frequency range is swept from 1800MHz, 2600MHz, 3500MHz, 5000MHz with the signal 80% amplitude modulated with a 1kHz sine wave.
- 4) 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.
- 5) 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.

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## Report No.:18230EC20201101 Page 17 of 21 RF Field Strength Susceptibility Test Results

Field Strength :	3V/m	Temperature :	22.8°C
Expert conclusion:	A Anbon An Anbo	Humidity :	49%
Power Supply :	N/A	Test Result :	🛛 Pass 🗌 Fail
Dwell Time:	1s Anbotek	Anboten And	Anbotek Anbot A

Frequency Range	Antenna Polarity	R.F. Field Strength	Azimuth	Result
potek Anborr	Annotek Ar	boten Andrek	Front Moon	tek unbotek p
	K Anbotek		Rear	ØA □B
80MHz~1000MHz	otek Anbotek	3 V/m (rms)	Left	
Anbotek	inbotek Anbor	ek Anbotek Anbo	Right	Anbotek Anbot
1800MHz	Anbote, Ano	potek Anbotek Ar	Front Front	Anboten Ano
2600MHz	H/V	3 V/m (rms)	Rear	ØA □B
3500MHz 5000MHz	tek pobotek	5 v/m (mis)	Left	
	hotek Anbotek	Anbote. Ano	Right	Anborek Anborek

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Page 18 of 21

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

-P

Photo of Radiated Emission Test

Photo of Electrostatic Discharge Immunity Test



#### Shenzhen Anbotek Compliance Laboratory Limited

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Page 19 of 21



Anb

Anbotek

Photo of RF Field Strength susceptibility Test

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Page 20 of 21

## **APPENDIX II -- EXTERNAL PHOTOGRAPH**



botek 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 10 10 11 12 13 14 15 16 17 18 19

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Page 21 of 21

#### UKCA Label

- 1. The UKCA conformity marking must consist of the initials 'UKCA' taking the following form:
  - If the UKCA marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
  - 2. The UKCA marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
- The UKCA marking must be affixed visibly, legibly and indelibly.
  It must have the same height as the initials 'UKCA'.

-- End of Report -

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