

Page 1 of 17

## FCC Test Report

Client Name	nb-	Dongguan I	Kangya Techr	ology Co., I	_td.	
Address	And	Room 501,	Building 2, N	o. 7, Longtia	an Road,	Qinghutou,
Address	Anbes	Tangxia Tov	wn, Dongguar	n City, Guan	gdong Pro	ovince

Product Name : Terahertz blower

Date : Jun. 10, 2022



#### Shenzhen Anbotek Compliance Laboratory Limited

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Anbotek Product Safety

Report No.:18250EC20042701

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## TEST REPORT

Applicant	nbotek	Dongguan Kangya Technology Co., Ltd.
Manufacturer	Anbotek	Dongguan Kangya Technology Co., Ltd.
Product Name	Anbo	Terahertz blower
Model No.	tek Al	FKY00098, FKY
Trade Mark	nbotek	FKY over Antoniak Antoniak
Rating(s)	Anbotek	220-240V~, 50/60Hz, 1000W

## Test Standard(s) : FCC Rules and Regulations Part 15 Subpart B: 2020

#### Test Method(s) : ANSI C63.4-2014

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements.

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

Date of Receipt:

May 17, 2022

Date of Test:

Prepared By:

May 17~May 24, 2022

Yee Huang

(Yee Huang)

(KingKong Jin)

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

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## 1. General Information

#### 1.1. Client Information

Applicant	: Dongguan K	Cangya Technology Co., Ltd.
Address	10 <sup>1</sup>	Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Sity, Guangdong Province
Manufacturer	: Dongguan K	Cangya Technology Co., Ltd.
Address	or And	Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Sity, Guangdong Province
Factory	: Dongguan K	Cangya Technology Co., Ltd.
Address		Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, City, Guangdong Province

## 1.2. Description of Device (EUT)

Product Name	:	Terahertz blower
Model No.	:	FKY00098, FKY (Note: All samples are the same except the model number & appearance, so we prepare "FKY00098" for test only.)
Trade Mark	:	FKY Anboret Anboret Anboret Anboret Anboret Anboret
Test Power Supply	:	AC 120V, 60Hz
Test Sample No.	:	1-1-1 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Product Description	:	Adapter: N/A
101		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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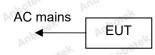
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## 1.4. Description of Test Mode

Pretest Mode	10	Description		
Mode 1	botek Anbotek	Anboundek On Anbotek	Anbore	An

#### 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	hotek P Anbotek
Radiated Emission Test (30MHz To 1000MHz)	Mode 1	Anbotek P Anbot
<ul><li>P) Indicates "PASS".</li><li>N) Indicates "Not applicable".</li></ul>	Anbotek Anbotek	Anbotek Ant

## 1.6. Test Equipment List

#### Conducted Emission Measurement

P33		M SeOV	DO.	100	AU	N/
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
photos 1.ek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 22, 2021	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	Jul. 05, 2021	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
5.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A Mootek	N/A

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Radiated Emission	Measurement
-------------------	-------------

Iter	n Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
6 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.	Software Name EZ-EMC	Ferrari Technology	EMEC-3A1	N/A	N/A	N/A

### 1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 4.7 dB (Horizontal)
		Ur = 4.3 dB (Vertical)
		K Anbotek Anbotek Anbotek Anbotek
Conduction Uncertainty	:	Uc = 3.4 dB
Disturbance Uncertainty	:	Ud = 3.4 dB

## 1.8. 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

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#### Code:AB-EMC-04-b

## 2. Power Line Conducted Emission Test

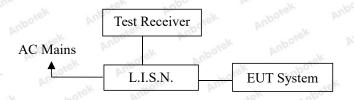
## 2.1. Test Standard and Limit

Test Standard	FCC Part 15 Subpart B	Anboten	Anboutek	anbotek	Anbors	P.u.,
		7.0 4				

	Frequency	At mains terminals (dB $\mu$ V)				
Test Limit	(MHz)	Quasi-peak Level	Average Level			
	0.15 ~ 0.50	66 ~ 56*	56 ~ 46*			
	0.50 ~ 5.00	56	46			
	5.00 ~ 30.00	60	50			

#### botek Anbort Att

## 2.2. Test Setup



## 2.3. EUT Configuration on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations 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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#### 2.5. Test Procedure

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The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

All the test results are listed in Section 2.6.

#### 2.6. Test Results

#### PASS

The test curves are shown in the following pages.

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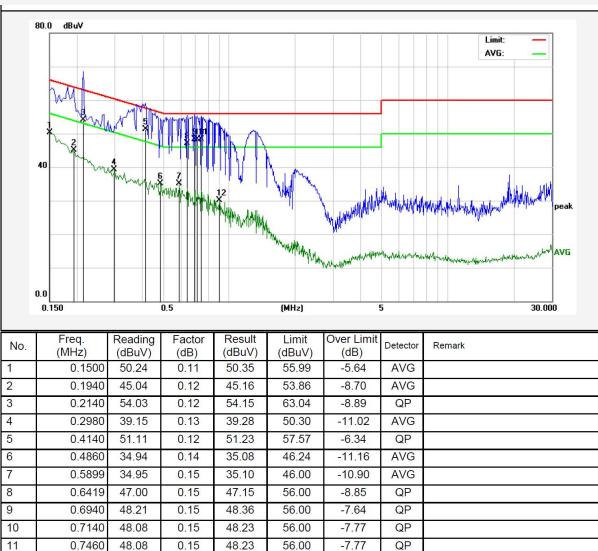


#### **Conducted Emission Test Data**

Test Site:	1#
Test Specification:	A
Comment:	Liv

1# Shielded Room AC 120V, 60Hz Live Line

#### Temp.: 23.9℃ Hum.: 47%



Note:

12

Result=Reading+Factor Over Limit=Result-Limit

30.01

46.00

-15.99

AVG

0.15

#### Shenzhen Anbotek Compliance Laboratory Limited

0.9020

29.86

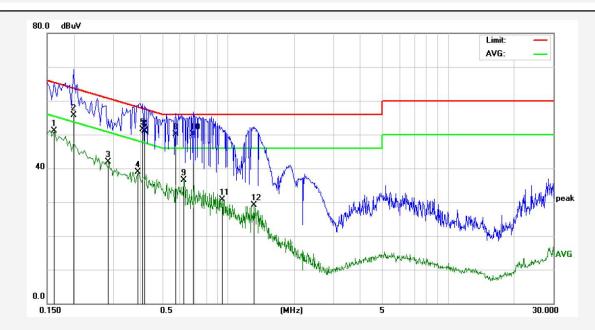
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com Code:AB-EMC-04-b

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#### **Conducted Emission Test Data**

Test Site:	1# Shielded Room
Test Specification:	AC 120V, 60Hz
Comment:	Neutral Line
	Temp : 23.9°C Hum : 47%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1620	50.91	0.12	51.03	55.36	-4.33	AVG	
2	0.1980	55.49	0.12	55.61	63.69	- <mark>8.08</mark>	QP	
3	0.2860	41.86	0.13	41.99	50.64	-8.65	AVG	
4	0.3899	38.72	0.11	38.83	48.06	-9.23	AVG	
5	0.4100	51.30	0.11	51.41	57.65	-6.24	QP	
6	0.4180	50.77	0.12	50.89	57.49	-6.60	QP	
7	0.4180	50.93	0.12	51.05	57.49	-6.44	QP	
8	0.5780	49.87	0.15	50.02	56.00	-5.98	QP	
9	0.6300	36.43	0.15	36.58	46.00	-9.42	AVG	
10	0.6940	49.99	0.15	50.14	56.00	- <mark>5.86</mark>	QP	
11	0.9420	30.61	0.15	30.76	46.00	-15.24	AVG	
12	1.3060	28.97	0.14	29.11	46.00	-16.89	AVG	

Note:

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**Result=Reading+Factor** 

**Over Limit=Result-Limit** 

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## 3. Radiated Emission Test

## 3.1. Test Standard and Limit

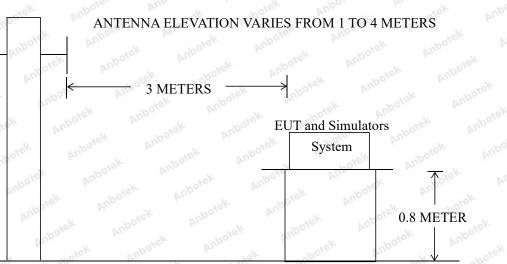
Test Standard	FCC Pa	art 15 Subpart	B Anbotek	Anbo	Anbotek	Anborer	Pun
ALC: NO	1-02	DV1.	-8°			V bell	D.V.

K wotek	Radiated Emission Test I	₋imit (Subpart B Class B)	motek p	mbo' A
Test Limit	Frequency	DISTANCE	FIELD STRENGTHS LIMIT	
	(MHz)	(Meters)	μV/m	(dBµV/m)
	30 ~ 88	Anbote	100	40 40
	88 ~ 216	And 3 tek Anto	150	43.5
	216 ~ 960	poter Ang tek	200	46
	960 ~ 1000	Anboten 3nbo	500	54

**Remark:** (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
  - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 3.2. Test Setup



## GROUND PLANE 3.3. EUT Configuration on Measurement

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

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### 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.

#### 3.5. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (Trilog Broadband Antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESCI) is set at 120kHz.

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

The test results are listed in Section 3.6.

#### 3.6. Test Results

#### PASS

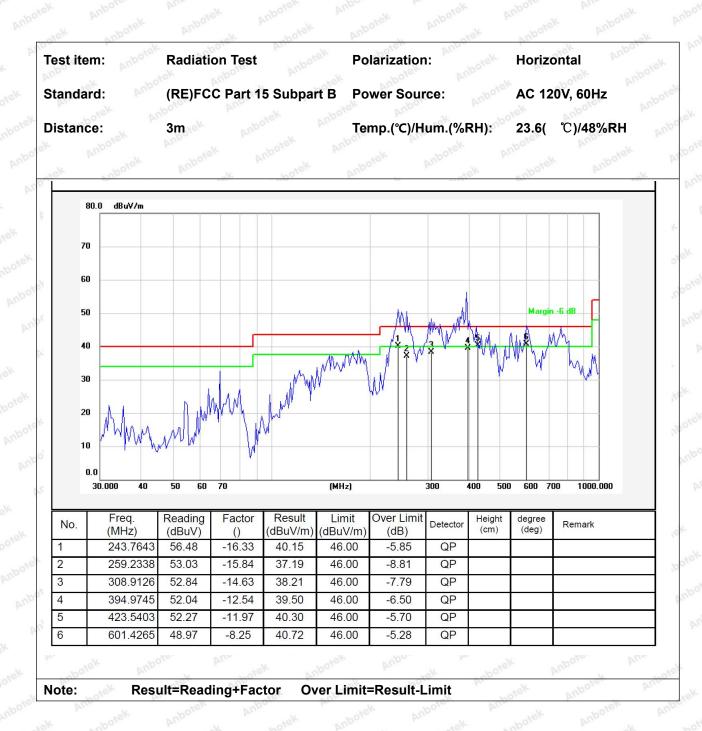
The test curves are shown in the following pages.

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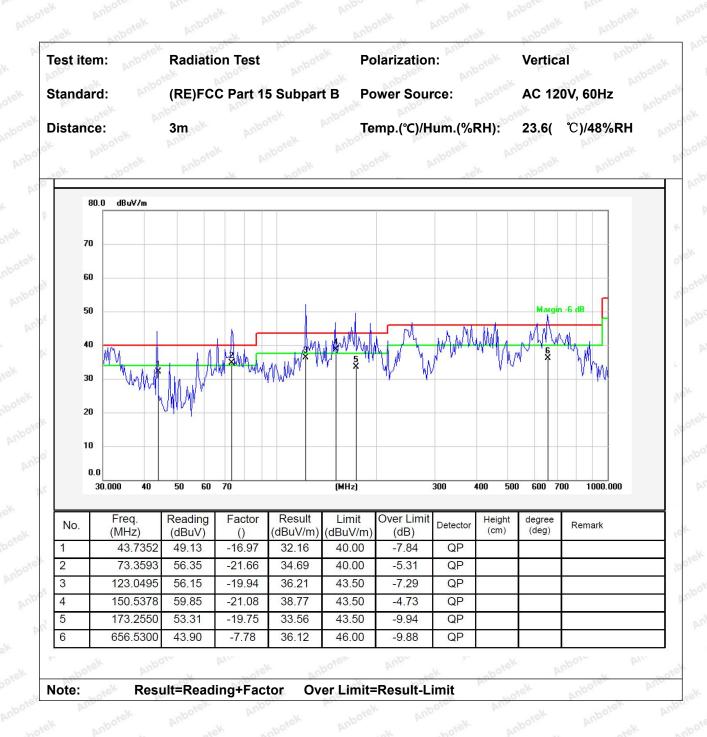
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# Report No.:18250EC20042701 APPENDIX I -- TEST SETUP PHOTOGRAPH



Photo of Power Line Conducted Emission Test

#### Photo of Radiated Emission Test



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# Report No.:18250EC20042701 APPENDIX II -- Photo documentation

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End of Report -----

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