

Report No.: 18220WC30185401 FCC ID: 2ACE5-IHQI4 Page 1 of 22

# **FCC Test Report**

#### Applicant **TELEPHONE EST (HK) CO., LTD**

Room709,7F, FuLi tianhe commercial building,Linhe East Road and tianhe district, Address Guangzhou, China

2 in 1 Magnetic 15W Wireless Charging Stand Product Name

**Report Date** 

Sept. 13, 2023



#### **Shenzhen Anbotek Compliance Laboratory Limited**

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### Code:AB-RF-05-b





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# TEST REPORT

Applicant	TELEPHONE EST (HK) CO., LTD	
Manufacturer	Telephone Est Electronics Factory (Zhong Shan)	
Product Name	2 in 1 Magnetic 15W Wireless Charging Stand	
Test Model No.	2IHQI2056	
Reference Model No.	2IHQI2056W0L2	
Trade Mark	N/A otek Anborek Anbor Att potek Anbore	
	Input: DC 9V/2A, 12V/2A	
Rating(s)	Wireless Output for Phone: 5W-7.5W-10W-15W Max Wireless Output for Earphones: 5W Max	
	Total Output: 15W Max	

Test Standard(s): FCC Part15 Subpart C, Paragraph 15.209Test Method(s): ANSI C63.10: 2020

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 FCC Part 15 Subpart C 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 of Test

Prepared By

Aug. 31, 2023 Aug. 31 ~ Sept. 12, 2023

Nian Xiu Chen

(Nianxiu Chen)

Idward pan

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer

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### **Revision History**

<b>Report Version</b>		Description			Issued Date			
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ek	Anbotek	Anboton	Anbotek	Anbotek	Anbonsbotek	Anbotek	Anboten A	05
potek	Anboten	Anbur	rek Anbotek	Anbor	A. nbotek	Anboten	k hotek	

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# 1. General Information

### 1.1. Client Information

	Par .	2	
	Applicant	:	TELEPHONE EST (HK) CO., LTD
3	Address	:	Room709,7F, FuLi tianhe commercial building,Linhe East Road and tianhe district, Guangzhou, China
n	Manufacturer	:	Telephone Est Electronics Factory (Zhong Shan)
	Address	:	No.2 Heyuan Shengfeng Road,Xiaolan Town, Zhongshan, China
	Factory	:	Telephone Est Electronics Factory (Zhong Shan)
	Address	:	No.2 Heyuan Shengfeng Road,Xiaolan Town, Zhongshan, China

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

Product Name	:	2 in 1 Magnetic 15W Wireless Charging Stand
Test Model No.	:	2IHQI2056
Reference Model No.	:	2IHQI2056W0L2 (Note: All samples are the same except the model number, appearance and color, so we prepare "2IHQI2056" for test only.)
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anborek Anborek Anborek Anborek Anborek Anborek Anborek A

### **RF Specification**

Operation Frequency	:	110.1-205kHz
Modulation Type	:	FSK potek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi (Provided by customer)

### Remark:

(1) All of the RF specification are provided by customer.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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### 1.3. Auxiliary Equipment Used During Test

Description	Rating(s)					
Adapter	Model: MDY-11-EX					
Ann abotek Anbot	Input: 100-240V~0.7A,50-60Hz					
All tek ad	USB-A output: 5V= 3A, 9V= 3A, 12V= 2.25A, 20V= 1.35A, 11V= 3A					
Mobile Phone	iPhone 12					
Apple AirPods	M/N: AirPods Pro					

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

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Wireless Charging Mode (iPhone12 + AirPods)
Mode 2	Wireless Charging Mode (iPhone12)
Mode 3	Wireless Charging Mode (AirPods)

For Conducted Emission		
Final Test Mode Description		
Mode 1	Wireless Charging Mode (iPhone12 + AirPods)	
Mode 2	Wireless Charging Mode (iPhone12)	
Mode 3	Wireless Charging Mode (AirPods)	

	F	For Radiated Emission	
Final Test Mo	de	Description	
Mode 1	otek Anboten	Wireless Charging Mode (iPhone12 + AirPods)	Anboten
Mode 2	abotek Anbote	Wireless Charging Mode (iPhone12)	Anbo
Mode 3	abotek Anboto	Wireless Charging Mode (AirPods)	ek An

#### Note:

(1) Test channel is 0.1277MHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 15W) was recorded in the report.

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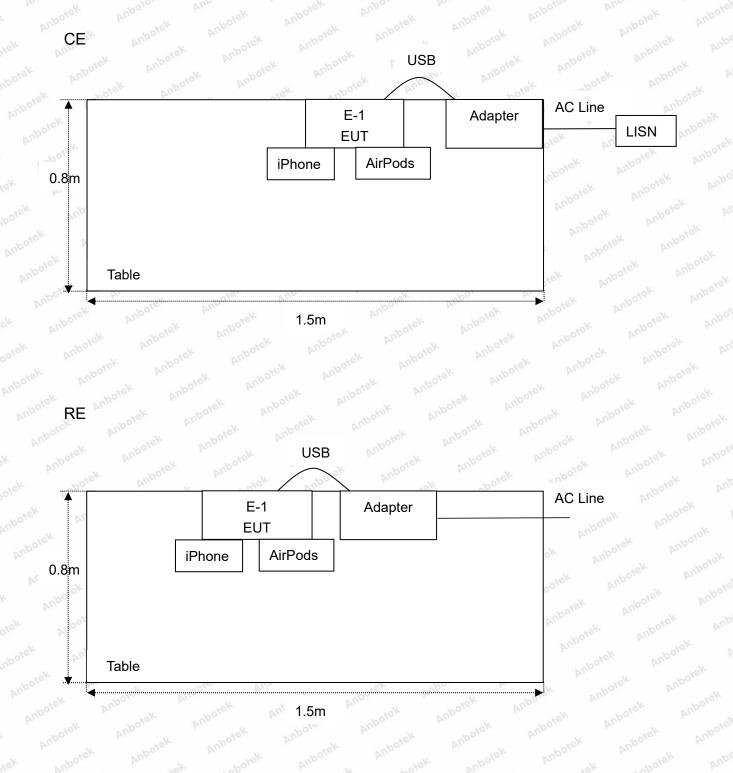
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### 1.5. Description Of Test Setup



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### 1.6. Test Equipment List

	der	ind.	toda Ya	Pre	ater .	VUD-
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
Anbo 1. Ar	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 23, 2022	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2023	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	esci <sup>ber</sup>	100627	Oct. 13, 2022	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	Oct. 13, 2022	1 Year
potek 7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 23, 2022	1 Year <sup>oo</sup>
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Oct. 23, 2022	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	npotek N/A Andote	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 13, 2022	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 19, 2022	1 Year
18.	Power Meter	Agilent	N1914A	MY50001102	Oct.26, 2022	1 Year

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### 1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 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**

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### 1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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# 2. Summary of Test Results

;	Standard Section		Test Item	Result		
Anboten	15.203	Anbotek	Antenna Requirement	PASS		
Anbo	15.207	Anboten	Conducted Emission Test	PASS		
pr pr	15.205/15.209	Anbo	Spurious Emission	PASS		

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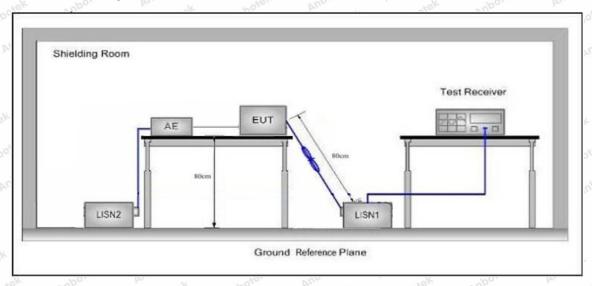
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# 3. Conducted Emission Test

### 3.1. Test Standard and Limit

	En anno 1	Maximum RF Li	ne Voltage (dBuV)		
Sec. 1	Frequency	Quasi-peak Level	Average Level		
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *		
	500kHz~5MHz	56 spore	46 det		
	5MHz~30MHz	60	50 Miles		

### 3.2. Test Setup



### 3.3. Test Procedure

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 C63.10: 2020 on Conducted Emission Measurement.

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

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

### 3.4. Test Data

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.

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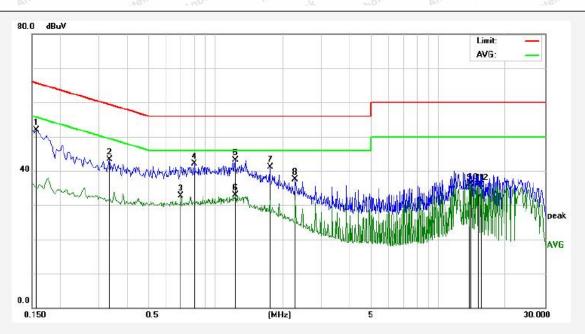


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### **Conducted Emission Test Data**

Test Site:	
Operating Condition:	
Test Specification:	
Comment:	
Temp.(℃)/Hum.(%RH):	

Data 1# Shielded Room Mode 1 AC 120V, 60Hz for Adapter Live Line 25.4℃/51%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark	
1	0.1580	32.05	19.83	51.88	65.56	-13.68	QP		
2	0.3339	23.38	19.83	43.21	59.35	- <mark>16.14</mark>	QP		
3	0.7019	12.93	19.87	32.80	46.00	-13.20	AVG		
4	0.8059	22.16	19.87	42.03	56.00	-13.97	QP		
5	1.2260	23.26	19.85	43.11	56.00	-12.89	QP		
6	1.2260	13.06	19.85	32.91	46.00	-13.09	AVG		
7	1.7540	21.21	19.86	41.07	56.00	-14.93	QP		
8	2.2820	17.72	19.85	37.57	56.00	-18.43	QP		
9	13.7300	15.74	20.11	35.85	50.00	-14.15	AVG		
10	13.8580	16.00	20.11	36.11	50.00	-13.89	AVG		
11	15.1420	15.82	20.15	35.97	50.00	-14.03	AVG		
12	15.5260	15.76	20.16	35.92	50.00	-14.08	AVG		

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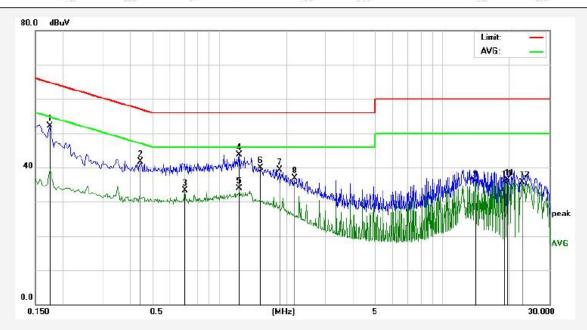


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### **Conducted Emission Test Data**

Test Site:
Operating Condition:
Test Specification:
Comment:
Temp.(℃)/Hum.(%RH):

Data 1# Shielded Room Mode 1 AC 120V, 60Hz for Adapter Neutral Line 25.4℃/51%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1740	32.29	19.83	52.12	64.76	-12.64	QP	
2	0.4460	21.83	19.83	41.66	56.95	-15.29	QP	
3	0.7019	13.44	19.87	33.31	46.00	-12.69	AVG	
4	1.2300	23.81	19.85	43.66	56.00	-12.34	QP	
5	1.2300	14.10	19.85	33.95	46.00	-12.05	AVG	
6	1.5339	20.07	19.85	39.92	56.00	-16.08	QP	
7	1.8660	19.47	19.85	39.32	56.00	-16.68	QP	
8	2.1700	17.08	19.85	36.93	56.00	-19.07	QP	
9	14.1140	15.72	20.12	35.84	50.00	-14.16	AVG	
10	18.9900	15.71	20.25	35.96	50.00	-14.04	AVG	
11	19.5020	16.12	20.27	36.39	50.00	-13.61	AVG	
12	22.7099	15.37	20.39	35.76	50.00	-14.24	AVG	

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### 4. Radiation Spurious Emission

### 4.1. Test Standard and Limit

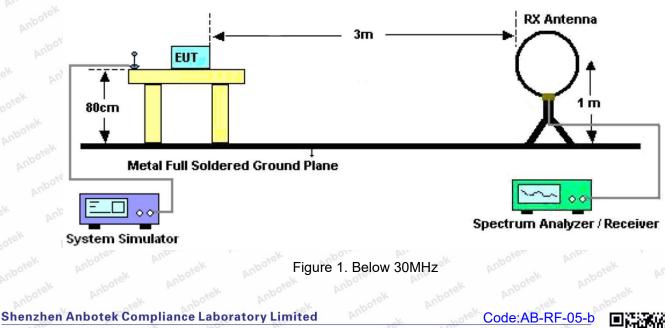
Test Standard	FCC Part15 C Section	15.209 and 15.205			
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Aupo.	pr. abotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbornetek	A. nbotek	30
	1.705MHz-30MHz	30	ek Anbo	ek nbote	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	stek 3 Anbor
	88MHz~216MHz	150	43.5	Quasi-peak	tbotek 3 Anbe
	216MHz~960MHz	200	46.0	Quasi-peak	Anbote 3 A
	960MHz~1000MHz	500	54.0	Quasi-peak	Anb 3
		500	54.0	Average	A3.010
	Above 1000MHz	Ann wotek Ant	74.0	Peak	ek 3Anbore

#### Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup



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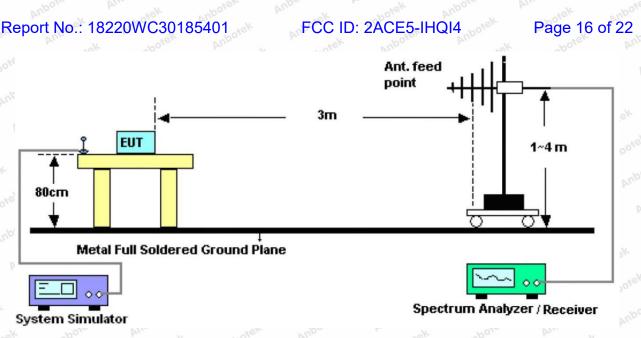


Figure 2. 30MHz to 1GHz

### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. 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. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as: RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as: RBW = 9kHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

### 4.4. Test Data

### PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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3

4

5

6

0.0352

0.0582

0.0995

0.1277

25.54

20.26

23.97

55.93

20.48

20.36

20.29

20.34

46.02

40.62

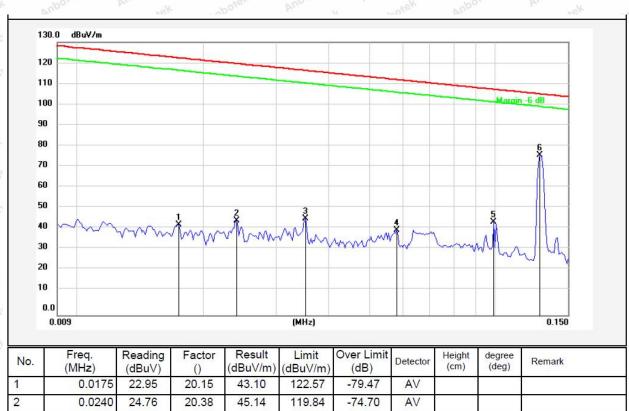
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76.27

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#### Test Results (Between 9kHz – 150kHz)

Test Mode:	Mode 1
Distance:	3m
Power Source:	AC 120V, 60Hz for Adapter
Temp.(℃)/Hum.(%RH):	24.2°C/57%RH



116.53

112.19

107.56

105.37

-70.51

-71.57

-63.30

-29.10

AV

AV

AV

AV

#### Shenzhen Anbotek Compliance Laboratory Limited

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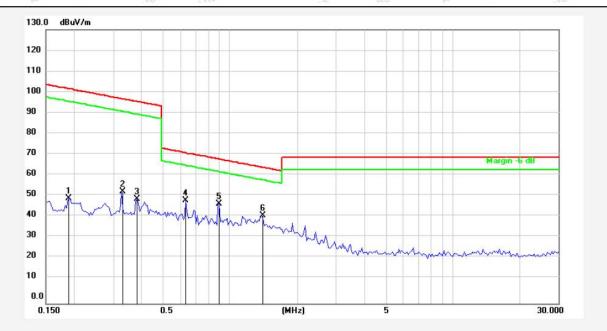
#### Code:AB-RF-05-b



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#### Test Results (Between 0.15MHz - 30MHz)

Test Mode:	Mode 1
Distance:	3m And Latek Anbore
Power Source:	AC 120V, 60Hz for Adapter
Temp.(℃)/Hum.(%RH):	24.2°C/57%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark	
1	0.1905	29.48	20.32	49.80	101.96	-52.16	AV				
2	0.3284	32.94	20.29	53.23	97.25	-44.02	AV				
3	0.3850	29.17	20.28	49.45	95.88	-46.43	AV				
4	0.6378	28.70	20.27	48.97	71.52	-22.55	QP				
5	0.9008	26.88	20.26	47.14	68.53	-21.39	QP				
6	1.3962	21.40	20.27	41.67	64.73	-23.06	QP				

**Remark:** According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

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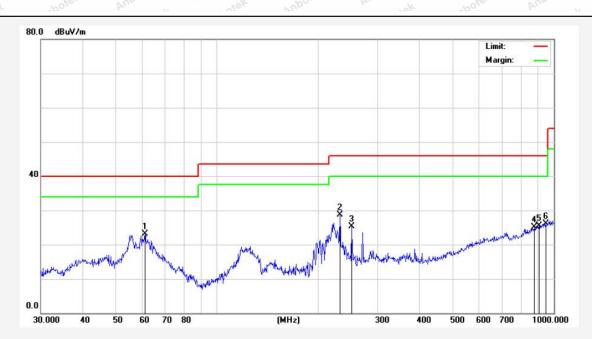
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com



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#### Test Results (Between 30MHz -1000 MHz)

Test Mode:Mode 1Distance:3mPower Source:AC 120V, 60Hz for AdapterPolarization:HorizontalTemp.(°C)/Hum.(%RH):23.5°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	61.1316	40.97	-17.90	23.07	40.00	- <mark>16.93</mark>	QP			
2	231.7179	50.60	-21.80	28.80	46.00	-17.20	QP			
3	251.1804	46.61	-21.39	25.22	46.00	-20.78	QP			
4	875.2470	31.96	-6.85	25.11	46.00	-20.89	QP			
5	903.3094	31.78	-6.19	25.59	46.00	-20.41	QP			
6	945.4399	31.81	-5.69	26.12	46.00	-19.88	QP			
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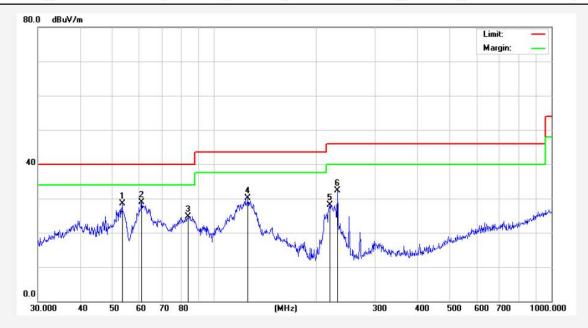
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Test Mode:	Mode 1 Mode 1
Distance:	And 3m Anbor est abotek Anboren And antek
Power Source:	AC 120V, 60Hz for Adapter
Polarization:	Vertical
Temp.(℃)/Hum.(%RH):	23.5°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark	
1	53.3179	45.45	-17.00	28.45	40.00	-11.55	QP				
2	60.9176	46.77	-17.82	28.95	40.00	- <mark>11.0</mark> 5	QP				
3	83.8156	43.36	-18.72	24.64	40.00	- <mark>1</mark> 5.36	QP				
4	125.8864	50.86	-20.84	30.02	43.50	-13.48	QP				
5	219.8449	47.01	-18.98	28.03	46.00	-17.97	QP				
6	231.7179	50.78	-18.56	32.22	46.00	-13.78	QP				
QP-		_V_	w0'	Des.		_1(0)-	402			N 40	

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# 5. Antenna Requirement

### 5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
	1) 15.203 requirement:
	An intentional radiator shall be designed to ensure that no antenna other than that
	furnished by the responsible party shall be used with the device. The use of a
Requirement	permanently attached antenna or of an antenna that uses a unique coupling to the
	intentional radiator, the manufacturer may design the unit so that a broken antenna
	can be replaced by the user, but the use of a standard antenna jack or electrical
	connector is prohibited.

### 5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

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

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

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

Please refer to separated files Appendix II -- External Photograph

# **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

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

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