

**Address** 

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# **FCC Test Report**

Applicant : GCteq Wireless (shenzhen) Co., Ltd

No. A402, Floor 4, Suojia Science park

Complex Building, Sanwei Community,

Hangcheng Street, Bao 'an District, Shenzhen

City, Guangdong Province China

Product Name : Embedded Multi-Functional Charging Table

Report Date : Jan. 18, 2024

Shenzhen Anbotek Con Anbotek



ce µaboratory Limited







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## TEST REPORT

GCteq Wireless (shenzhen) Co., Ltd Applicant

Manufacturer GCteq Wireless (shenzhen) Co., Ltd

Product Name **Embedded Multi-Functional Charging Table** 

Test Model No. : GF-17Lite-01B

GF-17Lite-01SP, GF-17Lite-01U, GF-17Lite-03B, GF-17Lite-03SP Reference Model No.

GF-17Lite-03U, GF-17Lite-03BP

GCteq. Trade Mark

Input:24-36VDC/ 3-2A

Wireless output: 15W Max Rating(s) Type-C output: 30W Max

USB -A output: 18W Max

Test Standard(s) FCC Part15 Subpart C, Paragraph 15.209

Test 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.

Dec. 20, 2023 Date of Receipt

Dec. 20, 2023~Jan. 09, 2024 Date of Test

Ella Sian Prepared By

(Ella Liang)

Bolward pan Approved & Authorized Signer

(Edward Pan)

**Shenzhen Anbotek Compliance Laboratory Limited** 

Code: AB-RF-05-b Hotline.







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## **Revision History**

	Repo	ort Version			Descripti	on		ssued Date	
100	boter	R00	100'	8K	Original Is	sue.	unboter J	an. 18, 2024	bojek
	abotek	Anbor	b'ta	otek	Anboren	Aupr	abotek	Aupor	Pr.
V	A. Lotek	Anboles	VU	-ek	abotek	Anbo	P. Polsk	Aupole	Vien





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## 1. General Information

## 1.1. Client Information

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Applicant	: GCteq Wireless (shenzhen) Co., Ltd	
Address	No. A402, Floor 4, Suojia Science park Complex Building, Sanwei  Community, Hangcheng Street, Bao 'an District, Shenzhen City, Guangdo Province China	ng
Manufacturer	: GCteq Wireless (shenzhen) Co., Ltd	
Address	No. A402, Floor 4, Suojia Science park Complex Building, Sanwei  Community, Hangcheng Street, Bao 'an District, Shenzhen City, Guangdo Province China	ng
Factory	: TEN PAO EIECTRONICS(HUIZHOU) Co.,LTD.	
Address	dongjiang industrial Estate, shuikou Street, Huizhou City, Guangdong Province, P.R.C	rek

## 1.2. Description of Device (EUT)

Product Name	:	Embedded Multi-Functional Charging Table
Test Model No.	:	GF-17Lite-01B
Reference Model No.	:	GF-17Lite-01SP, GF-17Lite-01U, GF-17Lite-03B, GF-17Lite-03SP, GF-17Lite-03U, GF-17Lite-03BP (Note: All samples are the same except the model number, socket, button and appearance color, so we prepare "GF-17Lite-01Band GF-17Lite-03B" for test only.)
Trade Mark	:	GCteq
Test Power Supply	:	AC 120V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	115-205kHz
Modulation Type	:	ASK Anborek Anborek Anborek
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi
Remark: 1) All of the F	?F	specification are provided by customer 2) For a more detailed features

**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: S058AAC2900200
Andorek Anborek A	Input: 100-240V~50/60Hz 2.4A
And tek abotek	Output: 29.0V-2.0A, 29.0V-4.0A
Wireless charging load:	Manufacturer: Shenzhen Ouju Technology Co., Ltd.
tek Anbote, And	M/N: CD2577
stek unbotek Anbo	Power: 5W/7.5W/10W/15W

#### 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	Adapter +WPT Mode(15W load)		

For Conducted Emission					
Final Test Mode	Description				
Mode 1	Adapter +WPT Mode(15W load)				

		For Radiated Emission		
Ŋ	Final Test Mode	Description		
otek	Mode 1	Adapter +WPT Mode(15W load)	An	An

#### Note:

- (1) Test channel is 0.1426MHz.
- (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.

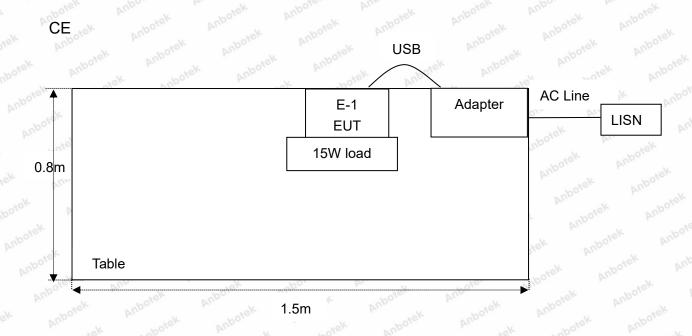




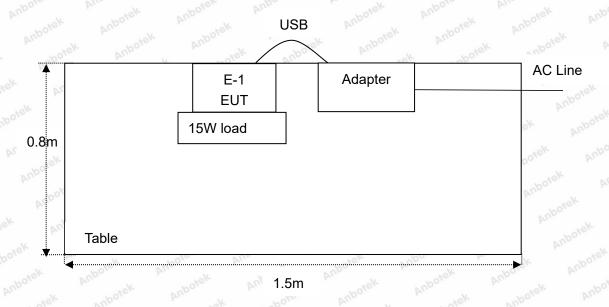


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#### 1.5. Description Of Test Setup



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## 1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Anbo 1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 12, 2023	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2023	1 Year
3.º <sup>k</sup>	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 12, 2023	1 Year
4.0	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 12, 2023	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G -45	SKET-PA-002	Oct. 12, 2023	1 Year
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. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Oct. 12, 2023	1 Year
M1.	Pre-amplifier	SONOMA	310N	186860	Oct. 12, 2023	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A AN	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14. <sup>10</sup>	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.eX	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 16, 2023	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	May. 26, 2023	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
oř	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.: 434132

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. 434132.

#### 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.

#### 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.
- 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
Anbo	15.203	Anbotek	Antenna Requirement	PASS
P,	15.207	Anborek	Conducted Emission Test	PASS
-	15.205/15.209	Aupo	Spurious Emission	PASS





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## 3. Conducted Emission Test

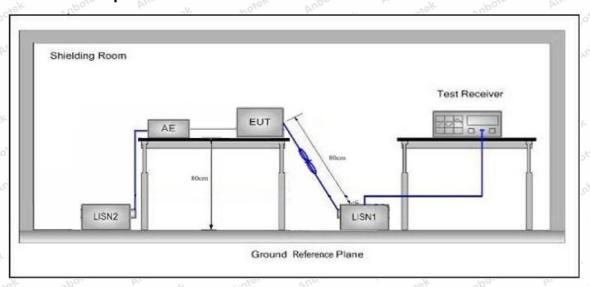
#### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.2	207			
	Fraguenov	Maximum RF Line Voltage (dBuV)			
	Frequency	Quasi-peak Level	Average Level		
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *		
	500kHz~5MHz	56	46		
	5MHz~30MHz	60	ek Anbore 50 And		

\*Decreasing linearly with logarithm of the frequency.

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

#### 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 the model GF-17Lite-01B and GF-17Lite-03B, only recorded the worst case result(GF-17Lite-01B).

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

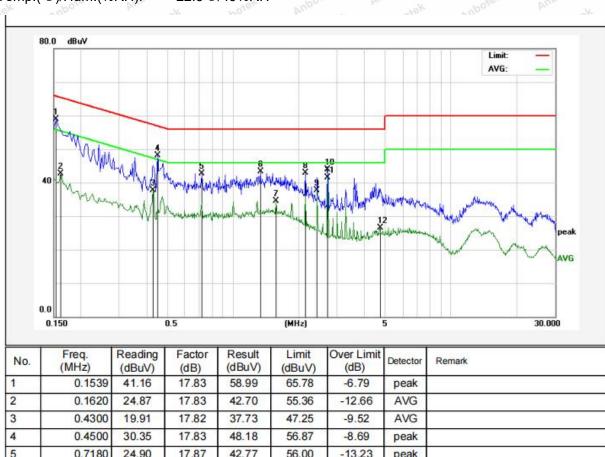
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Temp.(°C)/Hum.(%RH): 22.5°C/49%RH



No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	Remark
1	0.1539	41.16	17.83	58.99	65.78	-6.79	peak	
2	0.1620	24.87	17.83	42.70	55.36	-12.66	AVG	
3	0.4300	19.91	17.82	37.73	47.25	-9.52	AVG	
4	0.4500	30.35	17.83	48.18	56.87	-8.69	peak	
5	0.7180	24.90	17.87	42.77	56.00	-13.23	peak	
6	1.3340	25.47	17.86	43.33	56.00	-12.67	peak	
7	1.5740	16.67	17.85	34.52	46.00	-11.48	AVG	
8	2.1460	24.97	17.85	42.82	56.00	-13.18	peak	
9	2.4340	19.76	17.85	37.61	46.00	-8.39	AVG	
10	2.7180	26.10	17.85	43.95	56.00	-12.05	peak	
11	2.7180	23.67	17.85	41.52	46.00	-4.48	AVG	
12	4.7180	8.70	17.86	26.56	46.00	-19.44	AVG	





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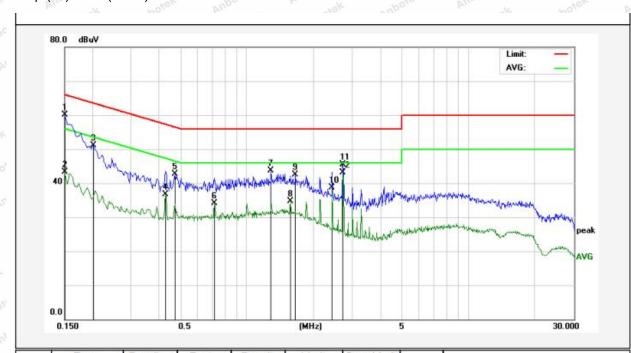
#### **Conducted Emission Test Data**

Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line Temp.( $^{\circ}$ )/Hum.( $^{\circ}$ RH): 22.5 $^{\circ}$ C/49 $^{\circ}$ RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	42.38	17.82	60.20	65.99	-5.79	peak	
2	0.1500	25.46	17.82	43.28	55.99	-12.71	AVG	
3	0.2020	33.38	17.82	51.20	63.52	-12.32	peak	
4	0.4300	18.88	17.82	36.70	47.25	-10.55	AVG	
5	0.4740	24.89	17.85	42.74	56.44	-13.70	peak	
6	0.7140	16.28	17.87	34.15	46.00	-11.85	AVG	
7	1.2860	25.94	17.86	43.80	56.00	-12.20	peak	
8	1.5700	16.87	17.85	34.72	46.00	-11.28	AVG	
9	1.6580	24.72	17.85	42.57	56.00	-13.43	peak	
10	2.4300	20.80	17.85	38.65	46.00	-7.35	AVG	
11	2.7139	27.69	17.85	45.54	56.00	-10.46	peak	
12	2.7139	25.35	17.85	43.20	46.00	-2.80	AVG	
16	WA	pro-		~7~	0.77+	-	20	10V P





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## 4. Radiation Spurious Emission

#### 4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 1	5.209 and 15.205			
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
Test Limit	0.009MHz~0.490MHz	2400/F(kHz)	Aupo.	Ai. abotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Aupo.	anbotek	30
	1.705MHz-30MHz	30 Augo	lek Aupo	ek -nbotel	30
	30MHz~88MHz	100	40.0	Quasi-peak	rek 3 Anbore
	88MHz~216MHz	150	43.5	Quasi-peak	botek 3 Anbo
	216MHz~960MHz	200	46.0	Quasi-peak	Anbotek 3
	960MHz~1000MHz	500	54.0	Quasi-peak	Anh 3
	A h ave 4000ML I=	500	54.0	Average	3
	Above 1000MHz	And borek An	74.0	Peak	ok 3knboren

#### 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

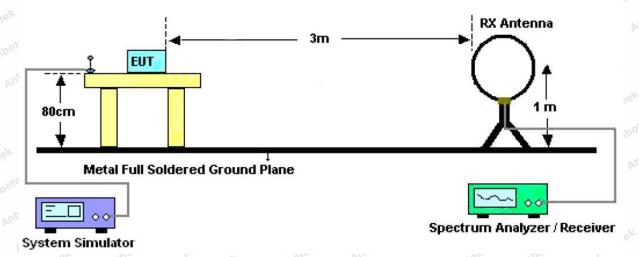


Figure 1. Below 30MHz







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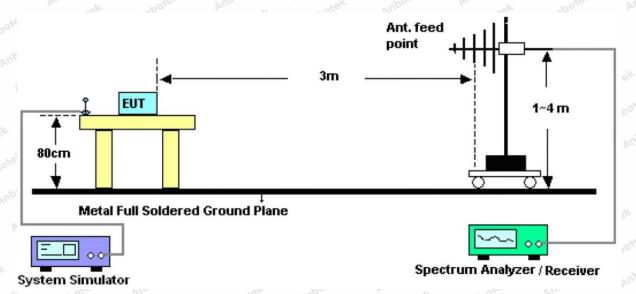


Figure 2. 30MHz to 1GHz

#### 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 the model GF-17Lite-01B and GF-17Lite-03B, only recorded the worst case result(GF-17Lite-01B).

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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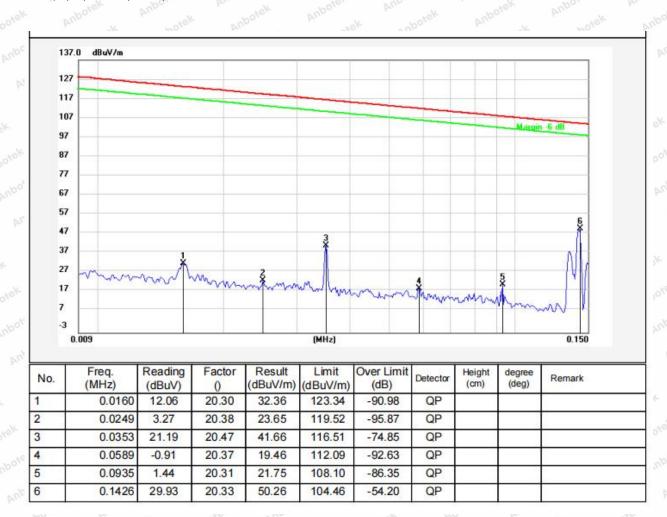
#### Test Results (Between 9KHz - 150KHz)

Test Mode: Mode 1

Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Temp.(°C)/Hum.(%RH): 24.2°C/52%RH







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

Test Mode: Mode 1

Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Temp.(°C)/Hum.(%RH): 24.2°C/52%RH



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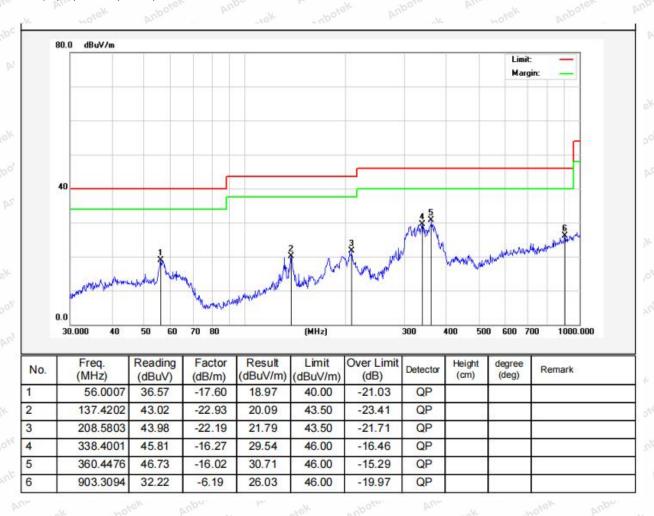
Test Results (Between 30MHz -1000 MHz)

Test Mode: Mode 1
Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 23.5°C/49%RH







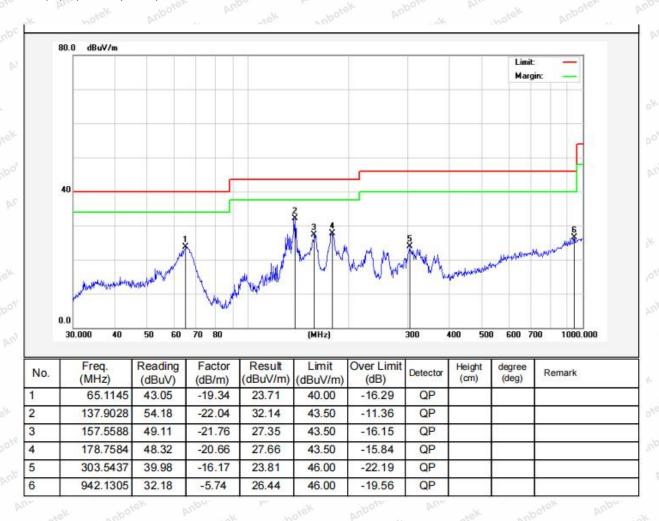
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Test Mode: Mode 1
Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 23.5°C/49%RH







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## 5. Antenna Requirement

#### 5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	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 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

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