

Report No.: 18220WC40036301 FCC ID: 2AEW6-TE-QC1014 Page 1 of 22

# FCC Test Report

# Applicant : TESONIC INTERNATIONAL (HK) LTD.

Address Room 2801,the 28th Office Tower, 6007 Shennan Avenue, Shenzhen, China

Product Name : 3 IN 1 WIRELESS CHARGING PAD

Report Date

Mar. 22, 2024



# Shenzhen Anbotek Compliande 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





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400-003-0500





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# TEST REPORT

Applicant :	TESONIC INTERNATIONAL (HK) LTD.
Manufacturer :	TESONIC INTERNATIONAL (HK) LTD.
Product Name :	3 IN 1 WIRELESS CHARGING PAD
Test Model No. :	QC1014
Reference Model No. :	QC1014L-BLK, QC1014L-ETN, QC1014W-BMB, QC1014W-IVA
Trade Mark : Rating(s) :	MVMT Input: DC 9V/2.22A, 12V/1.67A Phone charger Output: 15W Earphone charger output: 5W Watch charger output: 3W
Table Oten develop	Anbor Anbore Ann tek abotek Anbo

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

Mar. 04, 2024 Mar. 04 ~ 15, 2024

Nian Xiu Chen

(Nianxiu Chen)

Bolward pan

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer

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# **Revision History**

Report Version	Description	Issued Date		
R00	Original Issue.	Mar. 22, 2024		
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### Code:AB-RF-05-b





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# 1. General Information

# 1.1. Client Information

Applicant		TESONIC INTERNATIONAL (HK) LTD.
Applicant	•	
Address	:	Room 2801,the 28th Office Tower, 6007 Shennan Avenue, Shenzhen, China
Manufacturer	:	TESONIC INTERNATIONAL (HK) LTD.
Address	:	Room 2801,the 28th Office Tower, 6007 Shennan Avenue, Shenzhen, China
Factory	:	TESONIC INTERNATIONAL (HK) LTD.
Address	:	Room 2801,the 28th Office Tower, 6007 Shennan Avenue, Shenzhen, China

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

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Product Name	:	3 IN 1 WIRELESS CHARGING PAD
Test Model No.	:	QC1014
Reference Model No.	-	QC1014L-BLK, QC1014L-ETN, QC1014W-BMB, QC1014W-IVA (Note: All samples are the same except the model number and appearance color, so we prepare "QC1014" for test only.)
Trade Mark	:	MVMT Model And
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 An
PO No	:	18657 20047
Age Grade	:	Adult And
Country of origin	:	CHINA Mark Mark Mark
Buyer	:	JME & CO. NYC.LLC
RF Specification		
Operation Frequency	:	110.1-205kHz
Modulation Type	:	FSK Anborek Anbore Anborek Anborek Anborek
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)		0 dBi

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
An sotek Anbote	Input: 100-240V-0.7A, 50-60Hz
Anbo tek ob	USB-A output: 5V-3A, 9V-3A, 12V-2.25A, 20V-1.35A, 11V-3A
Mobile Phone	iPhone 12
Apple Watch	M/N: WR-50M
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 + iWatch)		
Mode 2	Wireless Charging Mode(iPhone12 + Airpods)		
Mode 3	Wireless Charging Mode(iPhone12 + iWatch)		
Mode 4	Wireless Charging Mode(Airpods + iWatch)		
Mode 5	Wireless Charging Mode(iPhone12)		
Mode 6	Wireless Charging Mode(Airpods)		
Mode 7	Wireless Charging Mode(iWatch)		

For Conducted Emission				
Final Test Mode	Description			
Mode 1	Wireless Charging Mode(iPhone12 + Airpods + iWatch)			
Mode 2	Wireless Charging Mode(iPhone12 + Airpods)			
Mode 3	Wireless Charging Mode(iPhone12 + iWatch)			
Mode 4	Wireless Charging Mode(Airpods + iWatch)			
Mode 5	Wireless Charging Mode(iPhone12)			
Mode 6	Wireless Charging Mode(Airpods)			
Mode 7	Wireless Charging Mode(iWatch)			

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	For Radiated Emission
Final Test Mode	Description
Mode 1	Wireless Charging Mode(iPhone12 + Airpods + iWatch)
Mode 2	Wireless Charging Mode(iPhone12 + Airpods)
Mode 3	Wireless Charging Mode(iPhone12 + iWatch)
Mode 4	Wireless Charging Mode(Airpods + iWatch)
Mode 5	Wireless Charging Mode(iPhone12)
Mode 6	Wireless Charging Mode(Airpods)
Mode 7	Wireless Charging Mode(iWatch)

Note:

(1) Test channel is 0.1289MHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 20W) was recorded in the report.

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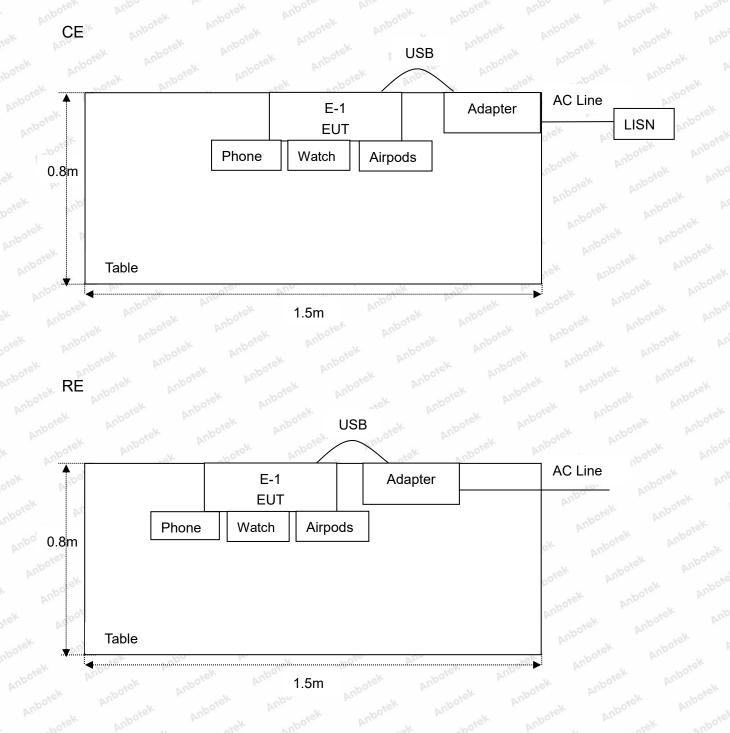
#### Code:AB-RF-05-b





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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. Interva
1. A	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	E215040DT00 1	Jul. 05, 2023	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 12, 2023	1 Year
4.	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-K F	J211060628	Oct. 12, 2023	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 12, 2023	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14.	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
otek 17. Inbote	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		
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.
- 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	
15.203	Antenna Requirement	PASS	
15.207	Conducted Emission Test	PASS	
15.205/15.209	Spurious Emission	PASS	

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





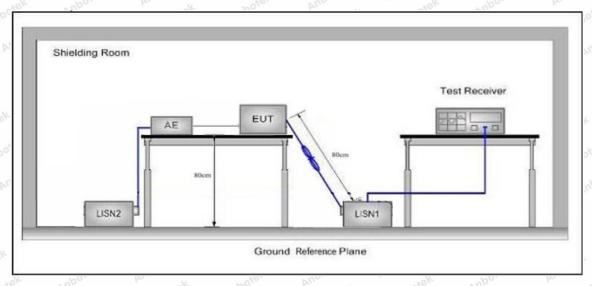
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# 3. Conducted Emission Test

# 3.1. Test Standard and Limit

	<b>-</b>	Maximum RF Lir	ne Voltage (dBuV)			
**	Frequency	Quasi-peak Level	Average Level			
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *			
	500kHz~5MHz	56	46 det			
	5MHz~30MHz	60	50			

# 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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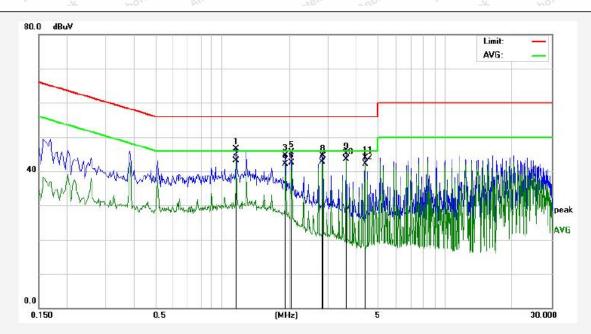


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<b>Conducted Emission</b>	Test Data
---------------------------	-----------

1# Shielded Room
Mode 1
AC 120V, 60Hz for Adapter
Live Line
21.4℃/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark	
1	1.1539	28.75	17.85	46.60	56.00	-9.40	QP		
2	1.1539	25.31	17.85	43.16	46.00	-2.84	AVG		
3	1.9260	26.87	17.83	44.70	56.00	-11.30	QP		
4	1.9260	24.34	17.83	42.17	46.00	-3.83	AVG		
5	2.0540	27.76	17.83	45.59	56.00	-10.41	QP		
6	2.0540	24.58	17.83	42.41	46.00	-3.59	AVG		
7	2.8220	24.81	17.84	42.65	46.00	-3.35	AVG		
8	2.8260	26.58	17.84	44.42	56.00	- <mark>11.5</mark> 8	QP		
9	3.5940	27.22	17.85	45.07	56.00	-10.93	QP		
10	3.5940	25.61	17.85	<b>43.46</b>	46.00	-2.54	AVG		
11	4.3659	26.15	17.84	43.99	56.00	-12.01	QP		
12	4.3659	24.34	17.84	42.18	46.00	-3.82	AVG		

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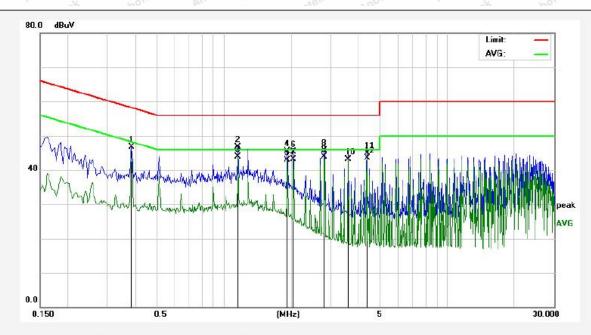


# Anbotek Product Safety

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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.(℃)/Hum.(%RH):	21.4℃/ <b>52%RH</b>



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark	
1	0.3860	28.89	17.81	46.70	58.15	-11.45	QP		
2	1.1539	28.85	17.85	46.70	56.00	-9.30	QP		
3	1.1539	26.13	17.85	43.98	46.00	-2.02	AVG		
4	1.9260	27.73	17.83	45.56	56.00	-10.44	QP		
5	1.9260	25.00	17.83	42.83	46.00	-3.17	AVG		
6	2.0540	27.54	17.83	45.37	56.00	-10.63	QP		
7	2.0540	25.33	17.83	43.16	46.00	-2.84	AVG		
8	2.8220	27.94	17.84	45.78	56.00	-10.22	QP		
9	2.8220	26.08	17.84	43.92	46.00	-2.08	AVG		
10	3.5940	25.32	17.85	43.17	46.00	-2.83	AVG		
11	4.3620	27.11	17.84	44.95	56.00	-11.05	QP		
12	4.3620	25.65	17.84	43.49	46.00	-2.51	AVG		

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# 4. Radiation Spurious Emission

# 4.1. Test Standard and Limit

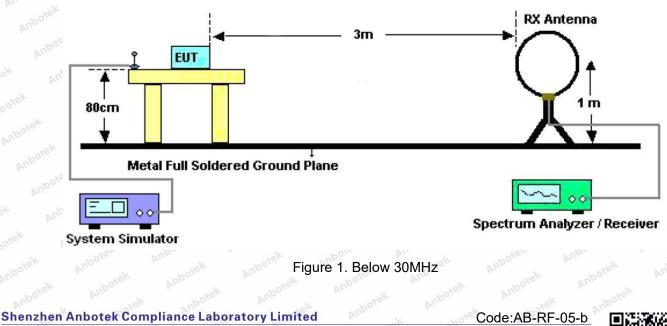
Test Standard	FCC Part15 C Section 1	5.209 and 15.205			stek nbotel
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Anbor.	A. abolek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbo	an botek	30
	1.705MHz-30MHz	30	rek _ Anbo	ek - nbotel	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3 Anbor
	88MHz~216MHz	150	43.5	Quasi-peak	botek 3 Anbo
	216MHz~960MHz	200	46.0	Quasi-peak	Anbote 3 Ar
	960MHz~1000MHz	500	54.0	Quasi-peak	3
		500	54.0	Average	3
	Above 1000MHz	Anto-botek An	74.0 M	Peak	ek 3Anbote

### 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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### 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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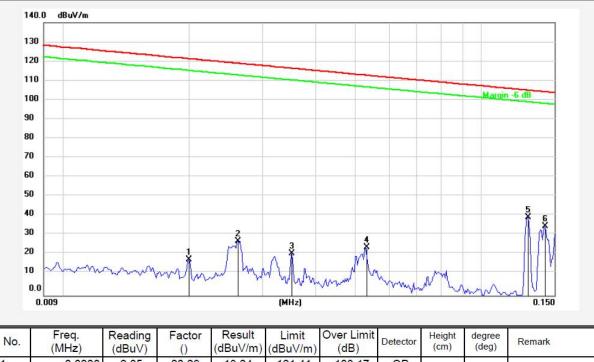


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#### Test Results (Between 9KHz – 150KHz)

Test Mode:	Mode 1
Distance:	3m And And Andrew
Power Source:	AC 120V, 60Hz for Adapter
Temp.(℃)/Hum.(%RH):	23.5℃/49%RH



NO.	(MHz)	(dBuV)	()	(dBuV/m)	(dBuV/m)	(dB)	Delector	(cm)	(deg)	Remark	
1	0.0200	-2.05	20.29	18.24	121.41	-103.17	QP				
2	0.0262	7.37	20.39	27.76	1 <mark>19.08</mark>	- <mark>91.</mark> 32	QP				
3	0.0353	1.02	20.47	21.49	116.51	- <mark>95.0</mark> 2	QP				
4	0.0530	4.33	20.38	24.71	113.00	-88.29	QP				
5	0.1289	19.81	20.34	40.15	105.33	-65.18	QP				
6	0.1418	15.18	20.33	35.51	104.50	-68.99	QP				
		- 537		i wa s	No.	and a second sec	1000				

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# Code:AB-RF-05-b

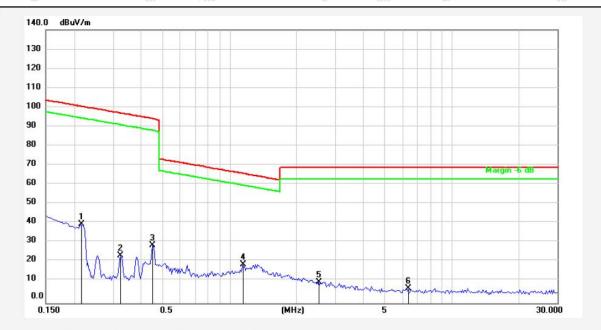


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#### Test Results (Between 0.15MHz - 30MHz)

Test Mode:	Mode 1
Distance:	3m March March
Power Source:	AC 120V, 60Hz for Adapter
Temp.(℃)/Hum.(%RH):	23.5℃/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.2151	19.99	20.30	40.29	100.91	-60.62	QP			
2	0.3251	3.94	20.29	24.23	97.34	-73.11	QP			
3	0.4515	9.16	20.27	29. <mark>4</mark> 3	94.51	-65.08	QP			
4	1.1595	-0.32	20.26	19.94	66.34	-46.40	QP			
5	2.5133	-9.51	20.29	10.78	69.50	-58.72	QP			
6	6.3186	-12.86	20.41	7.55	69.50	-61.95	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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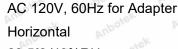


# Anbote **Product Safety**

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

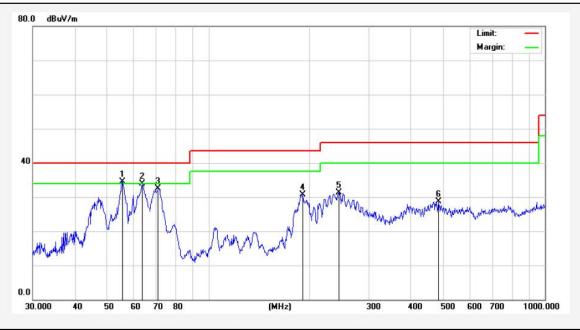
- Test Mode:
- Distance:
- Power Source:
- Polarization:
- Temp.(°C)/Hum.(%RH):



23.5°C/49%RH

Mode 1

3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark	
1	55.4147	52.22	-17.62	34.60	40.00	-5.40	QP				
2	63.5356	52.74	-18.79	33.95	40.00	-6.05	QP				
3	70.8315	54.77	-22.21	32.56	40.00	-7.44	QP				
4	190.4050	53.46	-22.73	30.73	43.50	-12.77	QP				
5	244.2321	52.90	-21.59	31.31	46.00	-14.69	QP				
6	482.2156	42.99	-14.37	28.62	46.00	-17.38	QP				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			1.012	1352		1007				M. 1-1	

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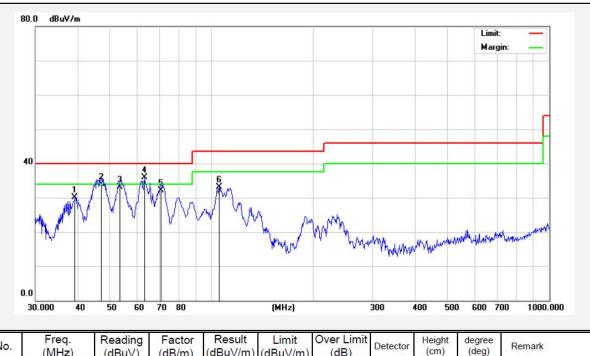






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Test Mode:	Mode 1
Distance:	m3m Anbe at potek Anbore And potek
Power Source:	AC 120V, 60Hz for Adapter
Polarization:	Vertical
Temp.(℃)/Hum.(%RH):	23.5°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark	
1	39.2991	44.95	-14.92	30.03	40.00	-9.97	QP				
2	47.1599	49.24	-15.37	33.87	40.00	- <mark>6.1</mark> 3	QP				_
3	53.3179	50.19	-17.00	33.19	40.00	- <mark>6.81</mark>	QP				_
4	63. <mark>31</mark> 32	54.56	-18.71	35.85	40.00	-4.15	QP		2	2	
5	70.8315	<mark>51.98</mark>	-19.95	32.03	40.00	-7.97	QP				_
6	105.2718	50.58	-17.42	33.16	43.50	-10.34	QP				
OM		-No	WO.	per-	•	_1(0)	6 O.M			-Vi ViV	

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# 5. Antenna Requirement

### 5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	<ul> <li>1) 15.203 requirement:</li> <li>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</li> </ul>
	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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