



NTEK 北测

FCC Test Report FCC ID: 2A4MY-UAGWCP01

Product: Wireless Charging Pad Trade Name: N/A Model Number: UAG-WCP-01 Family Model: 9B4410114042 Report No.: S23091106501001

Prepared for

Urban Armor Gear, LLC

1601 Alton Pkwy, Suite C, Irvine, California 92606

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

 1/F, Building E, Fenda Science Park, SanweiCommunity,Xixiang Street, Bao'an District, Shenzhen P.R. China
 Tel:400-800-6106,0755-2320 0050 / 2320 0090 Website:http://www.ntek.org.cn



TEST RESULTCERTIFICATION

Applicant's name:	I Irhan Arn	oor Gear LLC
••		n Pkwy, Suite C, Irvine, California 92606
Manufacturer's Name		•
		n Pkwy, Suite C, Irvine, California 92606
Product Name:		Charging Pad
Model and/or type reference :		
Family Model:	9B441011	
results show that the equipment ur applicable only to the tested sampl This report shall not be reproduced	KDB 6801 een tested der test (El e identified l except in f nt may be a	.10:2013 06 D01 RF Exposure Wireless Charging App v03r01 by ShenzhenNTEK Testing Technology Co., Ltd., and the test UT) is in compliance with the FCC requirements. And it is in the report. full, without the written approval of ShenzhenNTEK Testing Itered or revised by Shenzhen NTEK Testing Technology Co.,
The test results of this report relate Date of Test	•	e tested sample identified in this report.
TestSampleNumber	:	S230911065002
Date (s) of performance of tests	:	Sep 11. 2023 ~ Oct 07. 2023
Date of Issue		-
Test Result		
Testing Engine	eer :	Gavan Zhang
		(Gavan Zhang)
Authorized Sig	gnatory :	(Alex Li)





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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission									
Standard Test Item FCC Rules Limit Judgment F									
FCC part 15C ANSI C63.10:2013	Conducted Emission	§15.207	/	PASS					
	Radiated Emission	§15.209	/	PASS					
	ANTENNA APPLICATION	§15.203	/	PASS					
	20dB BANDWIDTH	§15.215	/	PASS					

NOTE:

(1)'N/A' denotes test is not applicable in this Test Report

(2) For client's request and manual description, the test will not be executed.





1.1 FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

1.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab.	:	The Certificate Registration Number is L5516.
IC-Registration	:	The Certificate Registration Number is 9270A-1.
FCC- Accredited	:	Test Firm Registration Number:463705.
		Designation Number: CN1184
A2LA-Lab.	:	The Certificate Registration Number is 4298.01
		This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005General requirements for the competence of testing and calibration laboratories. This accreditation demonstratestechnical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	:	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
		Street, Bao'an District, Shenzhen 518126 P.R. China.

1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	2.8	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	9KHz ~1000MHz	2.64	
		1GHz ~12.4GHz	2.40	

C. Occupied Bandwidth: Uncertainty ±3.7dB





Revision History

Report No.	Version	Description	Issued Date
S23091106501001	Rev.01	Initial issue of report	Oct 07. 2023



2. GENERAL INFORMATION

2.1GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	Wireless Charging Pad			
Trade Name	N/A			
FCC ID	2A4MY-UAGWCP01			
Model No.	UAG-WCP-01			
Family Model	9B4410114042			
Model Difference	All models are identical except models' name.			
Operating Frequency	111kHz~205kHz			
Antenna Type	Induction coil			
Power Rating	5V2A,9V2.22A,12V1.67A			
Wireless Output	5W / 7.5W / 10W / 15W			
Battery	N/A			
HW Version	N/A			
SW Version	N/A			



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2.1.1 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.

EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

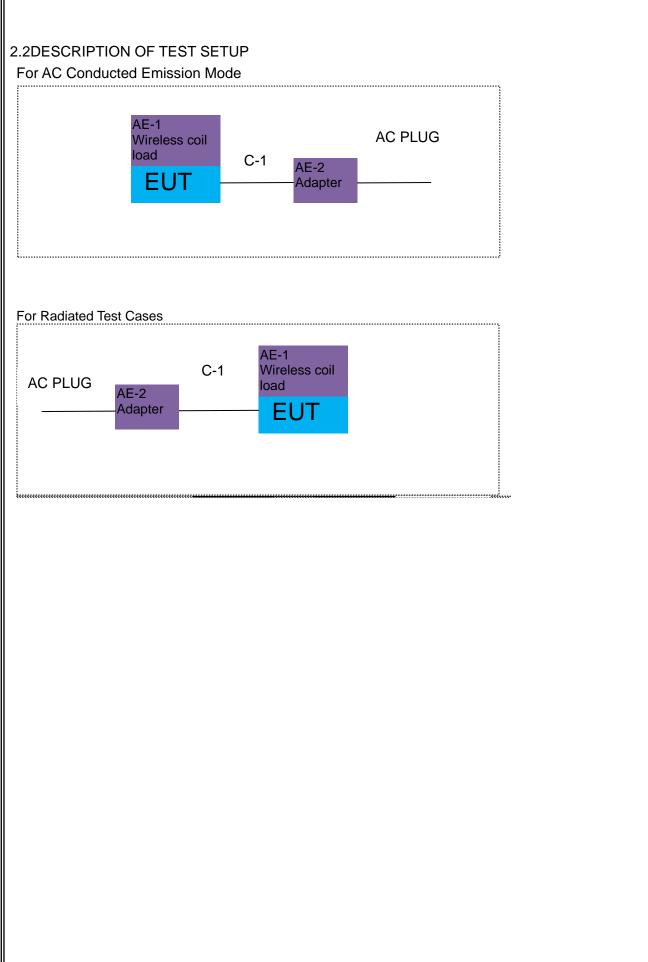
The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Test Cases					
Test Item	Data Rate/ Modulation					
AC Conducted Emission	Mode 1: Max load					
Radiated Test Cases	Mode 1: Max load					

Wireless output 15W(Max)full load, half load and no load mode has been tested. But the Max Load mode is the worst mode, and only this mode was presented in this report.







2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

NTEK 北测

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
AE-1	Wireless coil load	N/A	N/A	N/A	Peripherals
AE-2	Adapter	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	Power Cable	NO	NO	1.0m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in ^rLength₁ column.
- (3) "YES" means "shielded"" with core"; "NO" means "unshielded" without core".



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2.4MEASUREMENT INSTRUMENTS LIST

RadiationTest equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.03.27	2024.03.26	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Amplifier	EMC	EMC051835 SE	980246	2023.05.29	2024.05.28	1 year
8	Amplifier	MITEQ	TTA1840-35- HG	177156	2023.05.29	2024.05.28	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2023.05.29	2024.05.28	1 year
10	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
11	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50ΩCoaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year





3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	li	mit
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

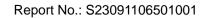
Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



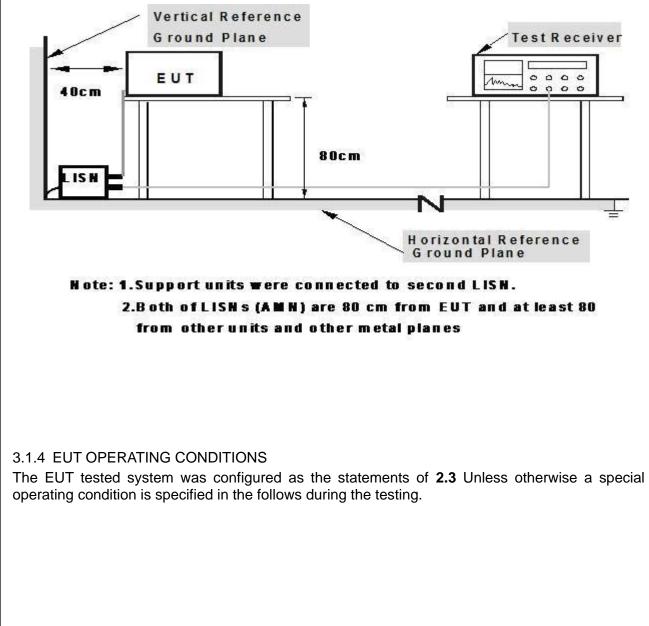


ACCREDITED Certificate #4298.01

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP





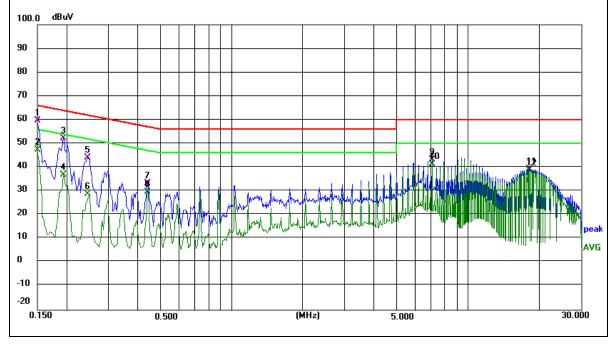
3.1.5TEST RESULTS

EUT:	Wireless Charging Pad	Model Name. :	UAG-WCP-01
Temperature:	21.1 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Phase :	L
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz
-	•		•

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	49.83	9.93	59.76	66.00	-6.24	QP
0.1500	37.46	9.93	47.39	56.00	-8.61	AVG
0.1940	42.12	10.01	52.13	63.86	-11.73	QP
0.1940	26.83	10.01	36.84	53.86	-17.02	AVG
0.2460	33.99	10.14	44.13	61.89	-17.76	QP
0.2460	18.52	10.14	28.66	51.89	-23.23	AVG
0.4420	22.68	10.53	33.21	57.02	-23.81	QP
0.4420	19.15	10.53	29.68	47.02	-17.34	AVG
7.0420	33.34	9.68	43.02	60.00	-16.98	QP
7.0420	31.64	9.68	41.32	50.00	-8.68	AVG
18.1940	29.67	9.71	39.38	60.00	-20.62	QP
18.1940	29.08	9.71	38.79	50.00	-11.21	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





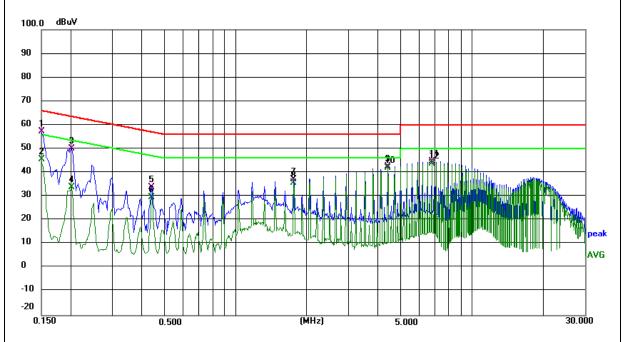


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EUT:	Wireless (Charging Pad	Model	Name. :	UAG-WCP-01	
Temperature:	21.1 ℃		Relativ	e Humidity:	48%	
Pressure:	1010hPa		Phase	:	N	
Test Mode: Mode 1			Test Vo	oltage:	AC 120V/60Hz	
Frequency	Frequency Reading Level Correct Factor M		Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	- Remark
0.1500	47.29	9.93	57.22	66.00	-8.78	QP
0.1500	35.54	9.93	45.47	56.00	-10.53	AVG
0.2020	40.09	10.04	50.13	63.53	-13.40	QP
0.2020	23.75	10.04	33.79	53.53	-19.74	AVG
0.4420	23.19	10.53	33.72	57.02	-23.30	QP
0.4420	19.04	10.53	29.57	47.02	-17.45	AVG
1.7620	24.11	13.18	37.29	56.00	-18.71	QP
1.7620	22.40	13.18	35.58	46.00	-10.42	AVG
4.4060	32.79	9.67	42.46	56.00	-13.54	QP
4.4060	32.14	9.67	41.81	46.00	-4.19	AVG
6.7540	35.09	9.68	44.77	60.00	-15.23	QP
6.7540	34.20	9.68	43.88	50.00	-6.12	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Notes

- ⁽¹⁾ Measurement was performed at an antenna to the closed point of EUT distance ofmeters.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209limit.

(4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except 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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3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited testfacility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the topof a variable-height antenna tower.
- c. The antenna is a broadband antenna(Blow 30M, use loop antenna), and its height is varied from one meter to four meters above theground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned toheights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to findthe maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz forquasi-peak detection (QP) at frequency below 1GHz.

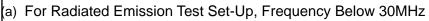
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

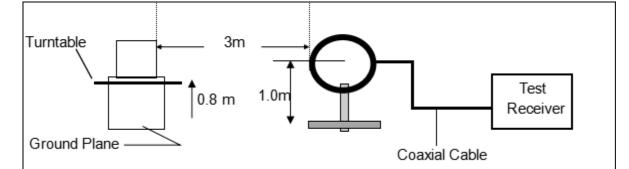
Use the following receiver/spectrum analyzer settings: Span = wide enough to fully capture the emission being measured RBW=200Hz for 9KHz to 150KHz, RBW=9kHz for 150KHz to 30MHz, RBW=120KHz for 30MHz to 1GHz VBW \geq 3*RBW Sweep = auto Detector function = QP Trace = max hold



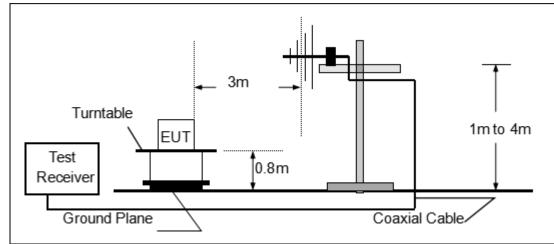


3.2.3 TEST SETUP





(b) For Radiated Emission 30~1000MHz







3.2.4TEST RESULTS

TEST RESULTS(9KHz~30MHz)

Note:

EUT:	Wireless Charging Pad	Model Name. :	UAG-WCP-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Power :	AC 120V/60Hz
Test Mode :	Mode 1	Polarization:	Х

Frequency	Ant.Pol.	Emission	Limits	Margin	Remark
		Level			
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.046	Х	49.15	114.349	-65.20	Avg
0.084	Х	46.13	109.119	-62.99	Avg
0.121	Х	74.19	105.949	-31.76	Avg(fundamental frequency)
0.797	Х	47.12	69.575	-22.46	QP
1.583	Х	43.68	63.615	-19.93	QP
10.295	Х	42.39	69.542	-27.15	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data. X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.





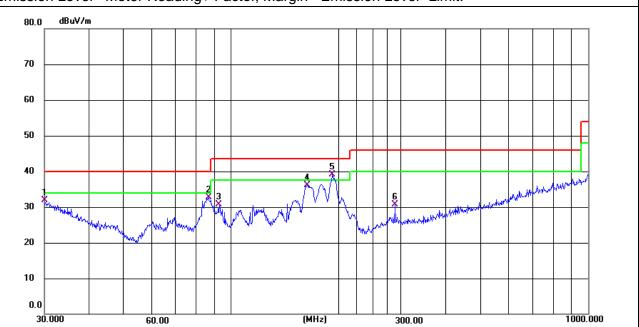
TEST RESULTS(30MHz ~1000MHz)

EUT:	Wireless Charging Pad	Model Name. :	UAG-WCP-01
Temperature:	25.6	Relative Humidity:	54
Pressure:	1010hPa	Test Power :	AC 120V/60Hz
Test Mode :	Mode 1	Polarization:	Vertical

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.0000	5.39	26.47	31.86	40.00	-8.14	QP
V	86.5029	16.41	16.28	32.69	40.00	-7.31	QP
V	92.7871	13.72	17.03	30.75	43.50	-12.75	QP
V	163.7550	18.24	17.84	36.08	43.50	-7.42	QP
V	192.4186	22.61	16.43	39.04	43.50	-4.46	QP
V	287.9904	10.60	20.07	30.67	46.00	-15.33	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.





84.7019

122.4040

163.7550

178.7584

191.7450

10.30

7.26

12.69

16.17

17.30

Н

Н

н

Н

Н



16.02

18.75

17.84

17.01

16.44

Report No.: S23091106501001

-13.68

-17.49

-12.97

-10.32

-9.76

QP

QP

QP

QP

QP

40.00

43.50

43.50

43.50

43.50

							-			
EUT:		Wirel	ess Charging) Pad	Model Nam	ie. :	UAG	-WCP-01		
Tempera	iture:	25.6			Relative Hu	umidity:	54			
Pressure	e:	1010	nPa		Test Power	:	AC 1	20V/60Hz		
Test Mod	de :	Mode	1		Polarizatior	ו:	Horiz	ontal		
Polar	Frequency		Meter Reading	Factor	Emission Level	Limits		Margin	Remark	
(H/V)	(MHz	:)	(dBuV)	(dB)	(dBuV/m)	(dBuV	/m)	(dB)	Remark	
Н	75.97	73	7.91	14.65	22.56	40.0	0	-17.44	QP	

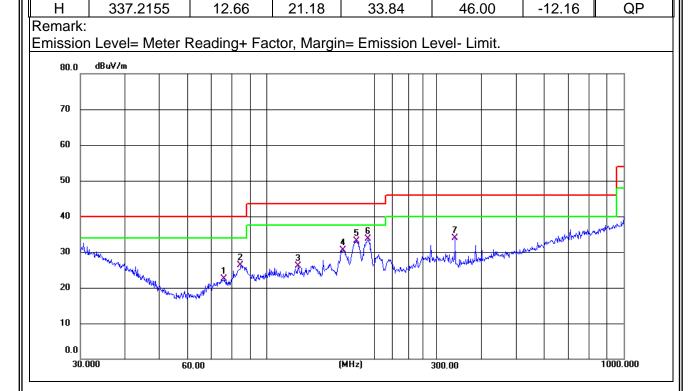
26.32

26.01

30.53

33.18

33.74







4. BANDWIDTH TEST

4.1TEST PROCEDURE

1). The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.

2). 20dB Bandwidth the resolution bandwidth of 300 Hz and the video bandwidth of 1 kHz were used.

3). Measured the spectrum width with power higher than 20dB below carrier.

4.2TEST SETUP







4.3 TEST RESULT

W	Vireless Charging Pad			lodel Name. :	UAG-V	UAG-WCP-01					
perature: 24	4 ℃			elative Humic	dity: 54%						
	010hPa			est Mode :	Mode ²						
	C 120V										
	5 1200	/00112									
				_		٦					
		Bandwidth-a		FL	F _H						
		frequency(Hz	<u>z)</u>	(kHz)	(kHz)						
	781			120.575	121.356						
			a single fi	requency							
Spectru	m										
	Ref Level 20.00 dBm										
1Pk Max	Att 40 dB SWT 6.3 ms VBW 1 kHz Mode Auto FFT										
				M1[1] -12.37 dB 120.9220 ki							
10 dBm	+			ndB		20.00 dB					
0 dBm	+		Bw Q factor			0000000 Hz 154.7					
-10 dBm—			M	1							
-20 dBm—											
			т	TI2							
-30 dBm—			1 Y								
-40 dBm—	1										
-50 dBm—			<u>/~~</u> ↓	$-\frac{1}{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$							
				~~~							
-60 dBm—	-		-								
-60 dBm-											
-78.dBm											
-78,dBm	22 kHz		691	pts	Spa	n 20.0 kHz					
-78.dBm- CF 120.9 Marker Type   R	ef Trc	X-value	Y-value	Function	Spa Function Resu	t I					
-78.dBm- CF 120.9 Marker		X-value 120.922 kHz 120.575 kHz		Function m ndB down m ndB							



# **5. ANTENNA APPLICATION**

#### 5.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shallbe designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device. **5.2 Result** 

The EUT antenna ispermanent attached antenna. It comply with the standard requirement.

END REPORT