

FCCREPORT

Applicant:	plicant: Ubio Labs, Inc.				
Address of Applicant:	2821 Northup Way, Suite 250 Bellevue, WA 98004 USA				
Equipment Under Test (E	UT)				
Product Name:	Wireless Charging Pad				
Model No.:	AWC1098				
Trade mark:	ubiolabs				
FCC ID:	2ATGY-AWC1098				
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.209				
Date of sample receipt:	05 Jan., 2021				
Date of Test:	06 Jan., 2021 to 22 Jan., 2021				
Date of report issue:	05 Feb., 2021				
Test Result:	PASS*				

* In the configuration tested, the EUT complied with the standards specified above.

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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JYT	Rep	ort No: JYTAB-R01-2100048
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Version No.	Date	Description
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Tested By:

Vden The Test Engineer

05 Feb., 2021

Date:

Reviewed By:

Project Engineer

Date: 05 Feb., 2021



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4 Test Summary

Test Item		Section in CFR 47	Result		
Spuric	ous emissions	15.209	Pass		
20dE	3 Bandwidth	15.215(c)	Pass		
Condu	cted Emission	15.207	Pass		
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by					
Test Method:	ANSI C63.4-2014 ANSI C63.10-2013				



5 General Information

5.1 Client Information

Applicant:	Ubio Labs, Inc.
Address:	2821 Northup Way, Suite 250 Bellevue, WA 98004 USA
Manufacturer/Factory:	SHENZHEN LANNENGSHITONG ELECTRONICS CO., LTD.
Address:	Floor3 No.40, Xinhe Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen City, Guangdong Province, China

5.2 General Description of E.U.T.

Product Name:	Wireless Charging Pad
Model No.:	AWC1098
Operation Frequency:	128.3kHz
Modulation type:	ASK
Antenna Type:	Coil Antenna
Input & Output (Wireless Charger):	Model: AWC1098 Input: DC 15V, 3.5A Output (USB-C PD 3.0): DC 5V, 3.0A/ DC 9V, 2.22A Output Wireless: 15W/ 10W/ 7.5W/ 5W
AC Adapter:	Model: CHG1088 Input: AC 110-240V, 50-60 Hz 1.1A Output: 15V / 3.5A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test mode and test samples plans

 Transmitting mode:
 Keep the EUT in transmitting mode with modulation

 Remark:
 Pre-scan input: 15V, 3.5A, output: 5W, 7.5W, 10W, 15W of the Power supply, found output: 15W was worse case mode.

 So the report only reflects the worse mode.

5.4 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
Skytek	Wireless charging match load	N/A	N/A	N/A
Apple	Mobile phone	iPhone 11 Pro	MWDE2CH/A	Doc



5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150kHz)	±1.60 dB
Conducted Emission (150kHz ~ 30MHz)	±2.20 dB
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.40 dB
Radiated Emission (1GHz ~ 18GHz)	±5.20 dB
Radiated Emission (18GHz ~ 26.5GHz)	±4.80 dB

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

●FCC - Designation No.: CN1279

Jianyan Testing Group Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 892155.

• ISED – CAB identifier.: CN0102

Jianyan Testing Group Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with ISED#:26114.

• A2LA - Registration No.: 5568.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/5568-01.pdf</u>

5.8 Laboratory Location

JianYan Testing Group Co., Ltd. Address: No.760, Fengling Road, Tong'an District, Xiamen, Fujian, China Tel: +86-592-2273071, Fax:+86-592-2273700 Email: guality@xmabr.com, Website: http://www.lets.com/



5.9 Test Instruments list

Radiated Disturbances:						
Test Equipment	Manufacturer	r Model No. Serial No.		Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	BOST	CHC-966	966-1#	2019-12-27	2022-12-26	
3m SAC	BOST	CHC-966	966-2#	2019-12-27	2022-12-26	
EMI Test Receiver	Rohde & Schwarz	ESR 3	102330	2020-08-05	2021-08-04	
EMI Test Receiver	Rohde & Schwarz	ESR 3	102329	2020-08-06	2021-08-05	
EMI Test Receiver	Rohde & Schwarz	ESR 7	102259	2020-04-12	2021-04-11	
Spectrum Analyzer	Agilent	E4407B	MY45115531	2020-12-27	2021-12-26	
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102175	2020-04-15	2021-04-14	
BiConiLog Antenna	SCHWARZBECK	VULB 9163	1105	2020-12-20	2021-12-19	
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1066	2020-04-11	2021-04-10	
Horn Antenna	SCHWARZBECK	BBHA 9120 D	911	2020-04-01	2021-03-31	
Pre-amplifier	SCHWARZBECK	BBV9743	00009	2020-08-06	2021-08-05	
Pre-amplifier	SCHWARZBECK	BBV9744	162	2020-12-22	2021-12-21	
Pre-amplifier	SCHWARZBECK	BBV9718C	00014	2020-04-08	2021-04-07	
Loop Antenna	DELI	DEVISER	N/A	2019-0823	2022-08-22	
EMI Test Software	Farad	EZ-EMC	Version: V.EMCE-3A1			

Conducted Emssion:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESR 3	102330	2020-08-05	2021-08-04	
EMI Test Receiver	Rohde & Schwarz	ESR 3	102329	2020-08-06	2021-08-05	
EMI Test Receiver	Rohde & Schwarz	ESR 7	102259	2020-04-12	2021-04-11	
LISN	Rohde & Schwarz	ENV 216	102240	2020-08-05	2021-08-04	
Voltage probe	Schwarzbeck	TK9420+VT9420	814	2020-08-05	2021-08-04	
ISN	Schwarzbeck	CAT3 8158	95	2020-08-05	2021-08-04	
EMI Test Software	Farad	EZ-EMC	Version: V.EMCE-3A1			



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203					
15.203 requirement: An intentional radiator shall responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohil	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit in be replaced by the user, but the use of a standard antenna jack or bited.					
E.U.T Antenna:	Coil Antenna					



6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209						
TestFrequency Range:	9kHz to 1000MHz						
Test site:	Measurement Distance: 3m(Semi-Anechoic Chamber)						
Receiver setup:	Frequency Detector RBW VBW Remark						Remark
	9kHz-150kHz	Quasi	-peak	200Hz	600	Hz	Quasi-peak Value
	150kHz- 30MHz	Quasi	-peak	9kHz	30k	Hz	Quasi-peak Value
	30MHz-1GHz	Quasi	-peak	120kHz	300k	κHz	Quasi-peak Value
	Above 1GHz	Pe	ak	1MHz	3MI	Ηz	Peak Value
Limit:	Frequency (M	IHz)	Limi	t (uV/m @3	m)		Distance (m)
	0.009-0.49	0	24	400/F(kHz)			300
	0.490-1.70	5	24	2000/F(KHZ))		30
	1.705-30			30			30
	30-88			100			3 2
	216-960			200			3 3
	Above 1GH	17		500			3
Test Procedure:	 Above 1GHz 500 3 a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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 top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground 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 to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as 						
Test setup:	9kHz-30MHz 9kHz-30MHz 9kHz-30MHz-1GHz						



	EUT Tum Tum Table Antenna Tower Antenna Antenna RF Test Receiver Tum Table Antenna RF Test Receiver Tum Antenna
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass
Remark:	The emission levels of above 1 GHz are very lower than the limit and not show in test report.



Measurement Data:

Radiated spurious:

Product Na	ime:	Wireles	s Chargin	g Pad		Produ	uct Mode	I: /	4WC1098	3	
Test By:		Miles C	hen			Test	mode:	1	Maximum	Power (Dutput mod
Test Freque	ency:	9kHz~3	30MHz			Polar	ization:	(Coxial		
Test Voltag	je:	AC 120)V/60Hz			Envir	onment:	7	۲emp: 24°	°C	Huni: 57
150 Level (140 120 100 80 60 40	1 2			mand	5 6	7 hulmulun	Manana			FCC 9	K-30M
0.009	.02	.05 Read/	.1 Intenna	.2 Cable	Frequen Preamp	5 1 cy (MHz) Aux	2	Limit	5 Over	10	20 30
0.009	.02 Freq	.05 Read/ Level	.1 Intenna Factor	.2 Cable Loss	Frequen Preamp Factor	5 1 cy (MHz) Aux Factor	Level	Limit Line	5 Over Limit	10 Remarl	20 30 K
0.009	.02 Freq MHz	.05 Read/ Level dBuV	.1 Intenna Factor dB/m	.2 Cable Loss dB	Frequen Preamp Factor dB	5 1 cy (MHz) Aux Factor dB	Level	Limit Line dBuV/m	Over Limit 	10 Remarl	20 30 k



Test By: Miles Chen Test mode: Maximum Power Output r Fest Frequency: 9kHz-30MHz Polarization: Coplanar Fest Voltage: AC 120V/60Hz Environment: Temp: 24°C Huni: 57° 100 Fundamental siggal 0 <t< th=""><th>Test By: Miles Chen Test mode: Maximum Power Output r Test Frequency: 9kHz-30MHz Polarization: Coplanar Test Voltage: AC 120V/60Hz Environment: Temp: 24°C Hun: 57° 150 Level (dBuV/m) Fundamental signal 100 Fundamental signal 0 0 7 0<</th><th>Frest By: Miles Chen Test mode: Maximum Power Outp Frest Frequency: 9kHz~30MHz Polarization: Coplanar Frest Voltage: AC 120V/60Hz Environment: Temp: 24°C Huni:</th><th>Miles ChenTest mode:Maximum Power Output mency:9kHz~30MHzPolarization:Coplanarge:AC 120V/60HzEnvironment:Temp: 24°CHuni: 57%</th><th>est By: Miles Chen Test mode: Maximum Power Output metal est Frequency: 9kHz~30MHz Polarization: Coplanar</th><th>Flouter Note: AWC1096</th></t<>	Test By: Miles Chen Test mode: Maximum Power Output r Test Frequency: 9kHz-30MHz Polarization: Coplanar Test Voltage: AC 120V/60Hz Environment: Temp: 24°C Hun: 57° 150 Level (dBuV/m) Fundamental signal 100 Fundamental signal 0 0 7 0<	Frest By: Miles Chen Test mode: Maximum Power Outp Frest Frequency: 9kHz~30MHz Polarization: Coplanar Frest Voltage: AC 120V/60Hz Environment: Temp: 24°C Huni:	Miles ChenTest mode:Maximum Power Output mency:9kHz~30MHzPolarization:Coplanarge:AC 120V/60HzEnvironment:Temp: 24°CHuni: 57%	est By: Miles Chen Test mode: Maximum Power Output metal est Frequency: 9kHz~30MHz Polarization: Coplanar	Flouter Note: AWC1096
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Test Voltage: AC 120V/60Hz Environment: Temp: 24°C Huni: 57° 150 Level (dBuV/m)	Test Voltage: AC 120V/60Hz Environment: Temp: 24°C Huni: 57° 150	Test Voltage: AC 120V/60Hz Environment: Temp: 24°C Huni:	ge: AC 120V/60Hz Environment: Temp: 24°C Huni: 57%		ivines chemical indeximum Power Output in
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$\frac{130}{140} - \frac{1}{100} - $	$\frac{130}{140} - \frac{1}{140} - $	coLevel (dBuV/m)	(dBu)/m)		Test Houe: Maximum Power Output power Power Pow
$\frac{120}{100} + \frac{120}{100} + $	$\frac{120}{100} + \frac{120}{100} + $	140		Level (dBuV/m)	Test Houe: Maximum Power Output Power Output Power Output Power Output Power Output
$\frac{120}{100} + \frac{120}{100} + $	$\frac{120}{100} + \frac{120}{100} + $			150 Level (dBuV/m)	Test Houe: Maximum Power Output power Output power Output power
$\frac{100}{80}$ $\frac{100}{90}$ 1	$\frac{100}{12}$ 1	120		150 Level (dBuV/m) 140	Test Houe. Maximum Power Output power Output power Output power
$\frac{100}{80} + \frac{100}{90} + 1$	$\frac{100}{80} + \frac{100}{90} + 1$	Fundamental signal		150 Level (dBuV/m) 140 120	Test Houe: Maximum Power Output m Test Frequency: 9kHz~30MHz Polarization: Coplanar Test Voltage: AC 120V/60Hz Environment: Temp: 24°C Huni: 57% 150 Level (dBuV/m) 140 140 140 120 Imaximum Power Output m
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3. The Aux Factor is a notch filter switch box loss, this item is not used.





3. The Aux Factor is a notch filter switch box loss, this item is not used.



6.3 Conducted Emission

Test Requirement:	FCC Part15 B Section 15.20	7			
Test Frequency Range:	150kHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Frequency range (MHz)				
	Quasi-peak Average				
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	0.5-30	60	50		
	* Decreases with the logarith	im of the frequency.			
Test setup:	Reference Plan LISN 40cm 80cc AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	me LISN Filter AC pr EMI Receiver	ower		
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices and a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line and interference. In order to find positions of equipment and according to ANSI C63.4: 	are connected to the r on network(L.I.S.N.). The bedance for the measu e also connected to the ohm/50uH coupling im s to the block diagram e checked for maximum and the maximum emiss d all of the interface ca 2014 on conducted maximum	main power through a he provide a ring equipment. e main power through pedance with 500hm of the test setup and m conducted sion, the relative ables must be changed easurement.		
Test environment:	Temp.: 23°C Hun	nid.: 56% Pr	ress.: 101kPa		
Test Instruments:	Refer to section 5.9 for detai	ls			
Test mode:	Refer to section 5.3 for detai	ls			
Test results:	Pass				



Measurement data:

Product name:	Wireless Charging Pad	Product Model:	AWC1098
Test by:	Miles Chen	Test mode:	Maximum Power Output mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%
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3. Final Level =Receiver Read level + LISN Factor + Cable Loss.





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6.4 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.215 (c)				
Receiver setup:	RBW=1 kHz, VBW=3 kHz, detector: Peak				
Limit:	The fundamental emission be kept within at least the central 80% of the permitted band				
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set the EUT to proper test channel. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. Read 20dB bandwidth. 				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data

20dB bandwidth (kHz)	99% bandwidth (kHz)	Limits
2.78	2.30	N/A
Remark: For report purpose or	nly.	



Test plot as follows:

