

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE200900301

FCC REPORT

Applicant: kaiJet Technology International Corporation

Address of Applicant: 8F., No 109, Zhongcheng Rd., Tucheng Dist., New Taipei City

236, Taiwan R.O.C.

Equipment Under Test (EUT)

Product Name: 10W Fast Wireless Charge

Model No.: JUPW1103

Trade mark: 5 create

FCC ID: 2AD37JUPW3W

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.209

Date of sample receipt: 01 Sep., 2020

Date of Test: 02 Sep., to 10 Sep., 2020

Date of report issue: 11 Sep., 2020

Test Result: PASS*

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

Authorized Signature:



Bruce Zhang

Laboratory Manager

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 CCIS 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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2 Version

Version No.	Date	Description
00	11 Sep., 2020	Original

Tested By:	11 lang	Date:	11 Sep., 2020	
	Test Engineer			



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4 Test Summary

Test Item	Section in CFR 47	Result
Spurious emissions	15.209	Pass
20dB Bandwidth	15.215(c)	Pass
Conducted Emission	15.207	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.4-2014
ANSI C63.10-2013



Report No: CCISE200900301

5 General Information

5.1 Client Information

Applicant:	kaiJet Technology International Corporation
Address:	8F., No 109, Zhongcheng Rd., Tucheng Dist., New Taipei City 236, Taiwan R.O.C.
Factory:	Magic Control Technology Corporation
Address:	10F., No. 123, Zhongcheng Road, Tucheng Dist., New Taipei City, Taiwan R.O.C

5.2 General Description of E.U.T.

Product Name:	10W Fast Wireless Charge
Model No.:	JUPW1103
Operation Frequency:	110kHz~205kHz
Modulation type:	ASK
Antenna Type:	Coil Antenna
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Power supply:	Wireless charger: Input: 5V, 2A / 10W 9V, 2A / 18W Output: 5V, 1A / 5W 9V, 0.83A / 7.5W 9V, 1.12A / 10W Adapter: Model: JUP12 Input: AC100-240V, 50/60Hz, 0.5A Output: DC 3.6-6V 3A 6.0-9V 2A 9.0-12V 1.5A
Remark:	The adapter has two colors of black and white, only the color is different, and the internal structure is the same

5.3 Test mode and test samples plans

Transmitting mode:	Keep the EUT in transmitting mode with modulation
·	V,1.83A/9V,1.12A and input: 9V, output: 5V,1A/9V,0.83A/9V,1.12A of the Power 2Awas 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
BJX	Wireless charging match load	N/A	N/A	N/A

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB
Radiated Emission (18GHz ~ 26.5GHz)	±3.20 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.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

■ ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com





5.9 Test Instrumentslist

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021	
Loop Antenna	SCHWARZBECK	FMZB 1519 B	00044	03-07-2020	03-06-2021	
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A	
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021	
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021	
Simulated Station	Anritsu	MT8820C	6201026545	03-07-2020	03-06-2021	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021	
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021	

Conducted Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021		
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021		
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021		
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021		
Cable	HP	10503A	N/A	03-05-2020	03-04-2021		
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A		



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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 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.

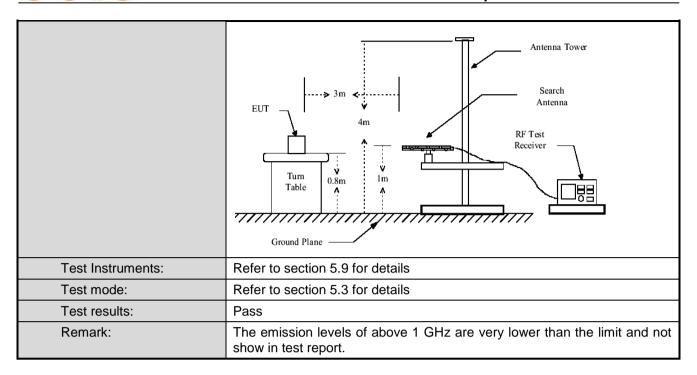
E.U.T Antenna: Coil Antenna



6.2 Radiated Emission

6.2 Radiated Emission	_					_
Test Requirement:	FCC Part15 C Section 15.209					
Test Frequency Range:	9kHz to 1000MHz					
Test site:	Measurement Di	stance: 3m(Se	mi-Anechoic	Cham	ber)	
Receiver setup:	Frequency	Detector	RBW	VBV	<u> </u>	
	9kHz-150kHz	Quasi-peak	200Hz 600I		Ηz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz		Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120kHz	300k		Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MF	l z	Peak Value
Limit:	Frequency (M		it (uV/m @3			Distance (m)
	0.009-0.49		2400/F(kHz)			300
	0.490-1.70	5 2	4000/F(kHz))		30
	1.705-30		30			30
	30-88		100			3
	88-216		150			3
	216-960		200			3
Test Procedure:	Above 1GF a. The EUT was	Iz placed on the to	500	. 4 - 1 - 2	١ ٥	3
Test setup:	 groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees toetermine 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 limits pecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet. 					eceiving antenna, nna tower. ers above the ground oth horizontal and measurement. its worst case and meters and the es to find the on and Specified lower than the limits ues of the EUT have 10dB margin
, oct octup.	9kHz-30MHz Tum Table Ground Plane 30MHz-1GHz	3m 4m 4m V V V V V V V V V V V V V V V V V			Sear Anten	









Measurement Data:

a) Fundamental field strength

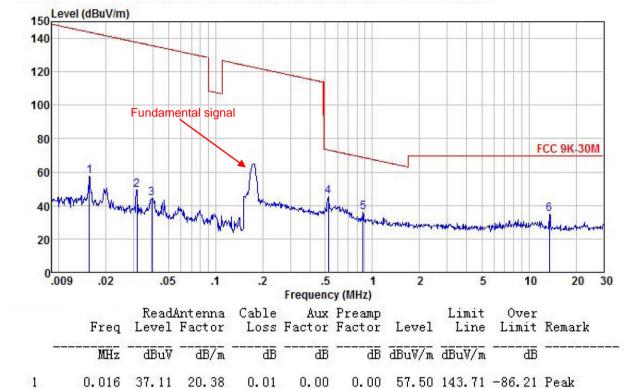
Peak value							
Test Polarization	Frequency (kHz)	H-field@3m (dBµV)	Limit@3m (dBµV)	Result			
Horizontal	147.40	78.65	124.23	Pass			
Vertical	147.40	67.22	124.23	Pass			
Average value							
Test Polarization	Frequency (kHz)	H-field@3m (dBµV)	Limit@3m (dBµV)	Result			
Horizontal	147.40	69.47	104.23	Pass			
Vertical	147.40	58.14	104.23	Pass			



b) Radiated spurious:

Below 1GHz:

Product Name:	10W Fast Wireless Charge	Product Model:	JUPW1103
Test By:	YT	Test mode:	Charing mode
Test Frequency:	9kHz~30MHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%



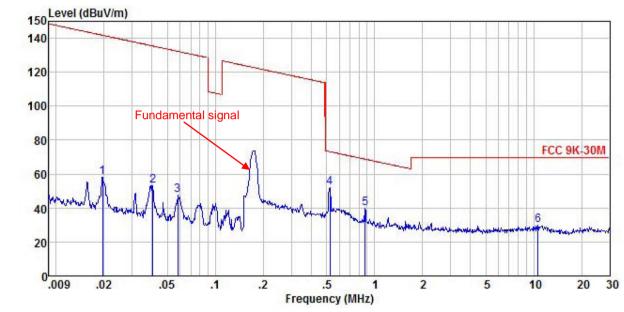
	MHz	dBu₹	<u>dB</u> /m	<u>ab</u>	<u>ab</u>	<u>dB</u>	$\overline{\mathtt{dBuV/m}}$	$\overline{dBuV/m}$	<u>ab</u>	
1	0.016	37.11	20.38	0.01	0.00	0.00	57.50	143.71	-86.21	Peak
2	0.031	29.16	20.24	0.02	0.00	0.00	49.42	137.65	-88.23	Peak
3	0.039	24.09	20.41	0.02	0.00	0.00	44.52	135.75	-91.23	Peak
4	0.524	24.37	20.78	0.09	0.00	0.00	45.24	73.22	-27.98	Peak
5	0.873	15.25	20.56	0.10	0.00	0.00	35.91	68.80	-32.89	Peak
6	13.548	14.92	19.59	0.41	0.00	0.00	34.92	69.50	-34.58	Peak

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Product Name:	10W Fast Wireless Charge	Product Model:	JUPW1103
Test By:	YT	Test mode:	Charing mode
Test Frequency:	9kHz~30MHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%
1.08.00	2		



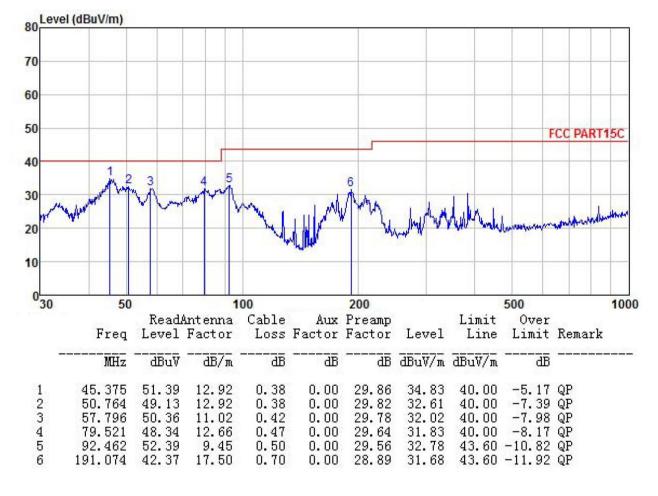
	Freq		Intenna Factor					Limit Line	Over Limit	Remark
	MHz	dBu₹				<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	0.020	37.70	20.32	0.01	0.00	0.00	58.03	141.74	-83.71	Peak
2	0.040	32.76	20.43	0.02	0.00	0.00	53.21	135.47	-82.26	Peak
3	0.058	26.88	20.55	0.02	0.00	0.00	47.45	132.29	-84.84	Peak
4	0.524	31.15	20.78	0.09	0.00	0.00	52.02	73.22	-21.20	Peak
5	0.873	19.41	20.56	0.10	0.00	0.00	40.07	68.80	-28.73	Peak
6	10.622	9.26	20.22	0.39	0.00	0.00	29.87	69.50	-39.63	Peak

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Product Name:	10W Fast Wireless Charge	Product Model:	JUPW1103
Test By:	Zora	Test mode:	Charing mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%
Lovel (dDuV/m)			



Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.

46.00 -17.59 QP

46.00 -17.67 QP

32.14 46.00 -13.86 QP



Product Name:	10W Fast Wireless Charge	Product Model:	JUPW1103		
Test By:	Zora	Test mode:	Charing mode		
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal		
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 5		
Lovel (dDal/fm)					
80 Level (dBuV/m)					
70					
60					
50			FCC PART15C		
40					
20	1 2 3	6			
30	J m	hi Libhadula	In a way of hour		
20	and the second	that is in the second	who provided the state of the s		
10 moraday parties	~~				
0					
30 50	100 200 Frequency (MHz		00 1000		
	ReadAntenna Cable Aux Prea	mp Limit	Over		
	evel Factor Loss Factor Fact		Limit Remark		
MHz	dBuV dB/m dB dB	dB dBuV/m dBuV/m	dB		
	1.13 16.82 0.67 0.00 29.		-13.98 QP		
	.3.11 17.55 0.70 0.00 28. 19.42 18.33 0.73 0.00 28.		-11.13 QP -13.90 QP		

Remark:

4

5

220.617

272.278

383.932

37.98

37.42

40.87

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

0.74

0.82

0.97

0.00

0.00

0.00

28.70

28.50

28.71

28.41

28.33

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

18.39

18.59

19.01



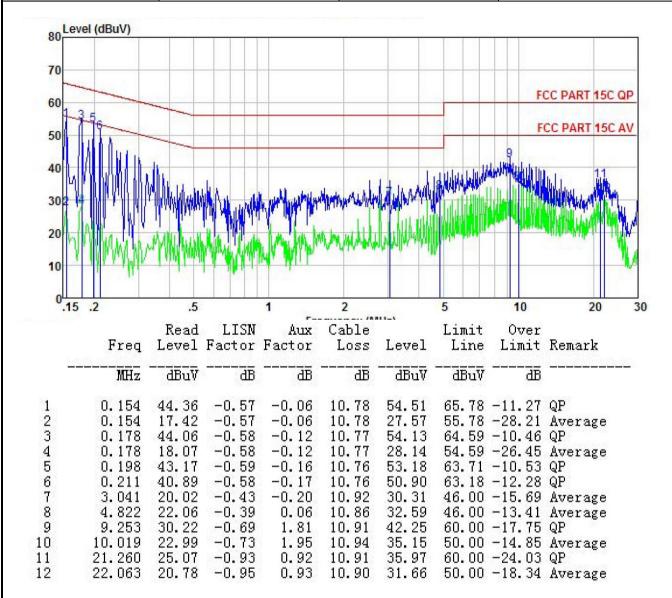
6.3 Conducted Emission

Test Requirement:	FCC Part 15 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)	Limit	(dBµV)			
	, , , ,	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	m of the frequency.				
Test setup: Test procedure	Reference Plan LISN 40cm 80cm 80cm 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 1. The E.U.T and simulators a	EMI Receiver	main power through a			
	line impedance stabilizatio 500hm/50uH coupling importance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). 3. Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.4: 2	edance for the measure also connected to the ohm/50uH coupling im to the block diagram e checked for maximum did the maximum emissional of the interface care	e main power through pedance with 50ohm of the test setup and m conducted sion, the relative ables must be changed			
Test environment:	Temp.: 23 °C Hum	nid.: 56% Pr	ress.: 101kPa			
Test Instruments:	Refer to section 5.9 for details	 S	1			
Test mode:	Refer to section 5.3 for details	S				



Measurement data:

Product name:	10W Fast Wireless Charge	Product Model:	JUPW1103
Test by:	Zora	Test mode:	Charing mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

62.61 -13.21 QP

60.28 -15.53 QP

60.00 -17.18 QP

46.00 -11.33 Average

60.00 -16.78 QP 50.00 -14.67 Average

50.00 -13.44 Average

50.00 -19.07 Average



Product name:		10W Fas	st Wireles	s Charge		Produ	ct Model	: JUF	PW1103	
Test by:		Zora				Test m	node:	Cha	aring mode	
Test frequency:		150 kHz	~ 30 MHz	<u>z</u>		Phase	:	Neu	utral	
Test voltage:		AC 120	V/60 Hz			Enviro	nment:	Ten	np: 22.5℃	Huni: 559
80 Level (d 70 60 2 50 40 40 10 0 .15 .2	BuV)				/ ^ / / ///////////////////////////////		8 (m)	10	FCC PART	T 15C AV
Trace: 3					_		0	- 10		20 30
TIGOOTO				F	requency	(MHz)	5	- 10		20 30
	Freq	Read	LISN		_	(MHz) Level	Limit Line	Over	Remark	20 30
	Freq MHz	Read	LISN	Aux	requency Cable		Limit	Over		20 30

Notes:

6

7

8

9

10

11

12

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

-0.67

-0.67

-0.64

-0.71

-0.73

-0.77

-0.77

-1.30

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

0.00

0.01

0.60

0.78

0.81

1.11

1.11

0.45

10.75

10.74

10.87

10.81

10.81

10.87

10.87

10.90

49.40

44.75

34.67

43.22

35.33

42.82

36.56

30.93

3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

39.32

34.67

23.84

32.34

24.44

31.61

25.35

20.88

0.226

0.299

4.549

6.285

6.557

8.323

8.323

22.063



6.4 20dB Bandwidth

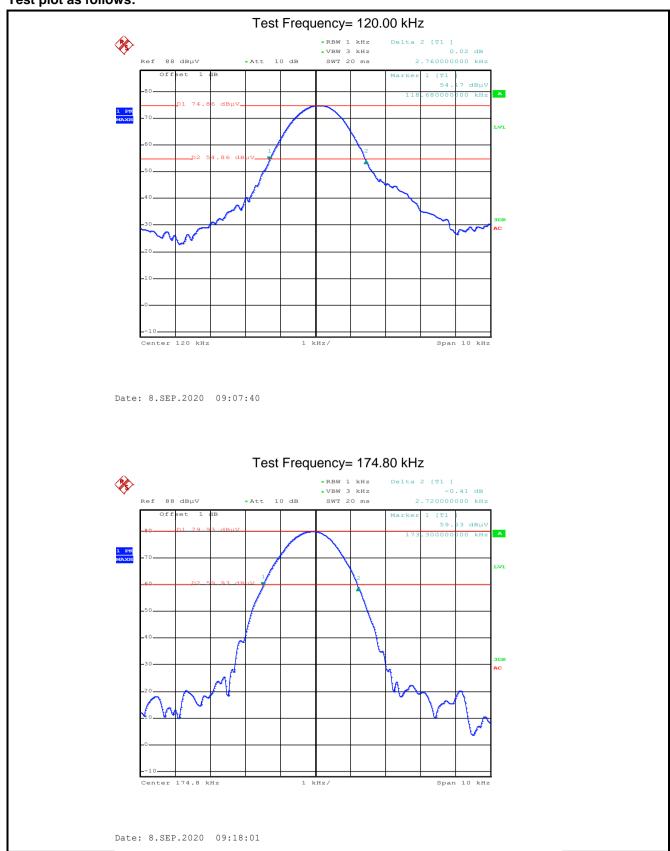
Test Requirement:	FCC Part15 C Section 15.215 (c)
Receiver setup:	RBW=1 kHz, VBW=3 kHz, detector: Peak
Limit:	The fundamental emission be kept within at least the central 80% of the permitted band
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna 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)	Limits
2.76	NI/A
2.72	N/A
Remark: For report purpose only.	



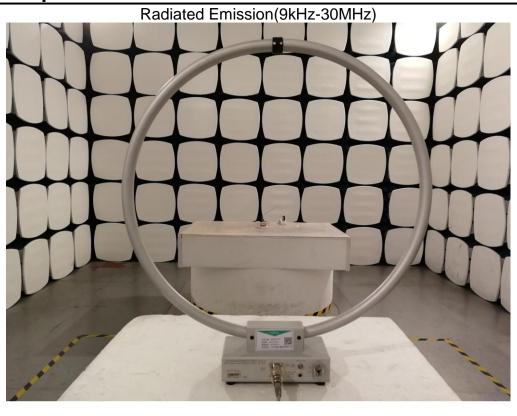
Test plot as follows:

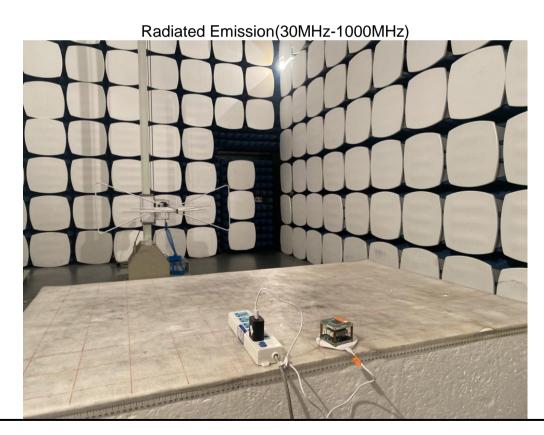






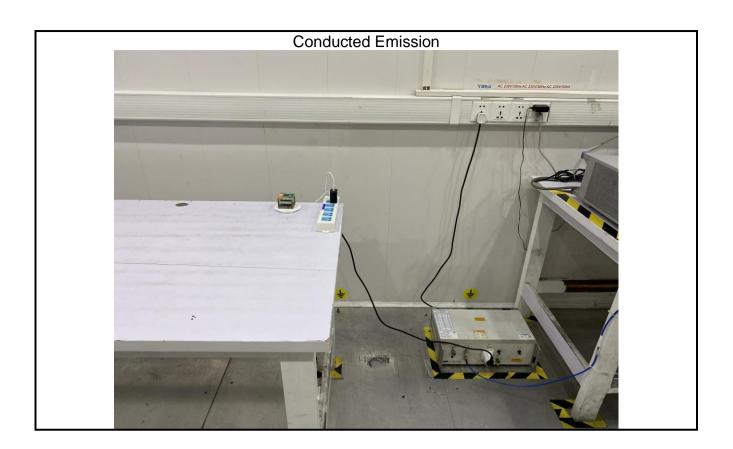
7 Test Setup Photos





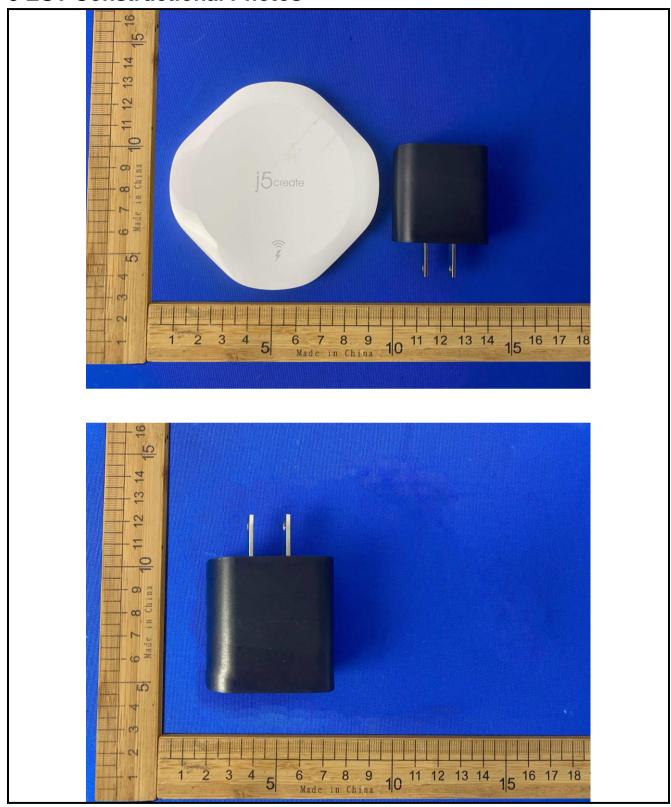






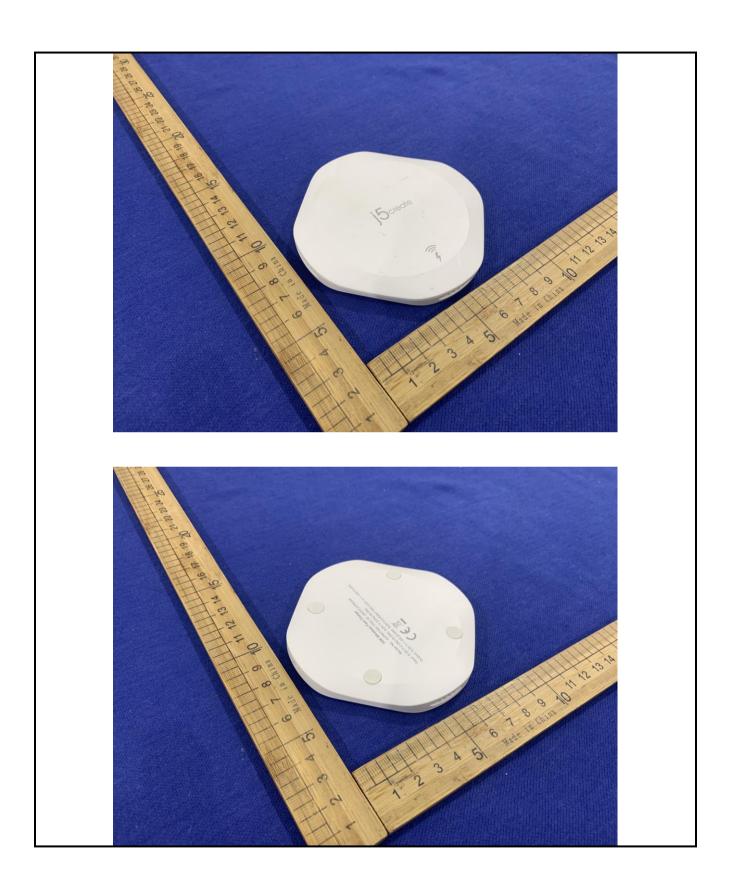


8 EUT Constructional Photos







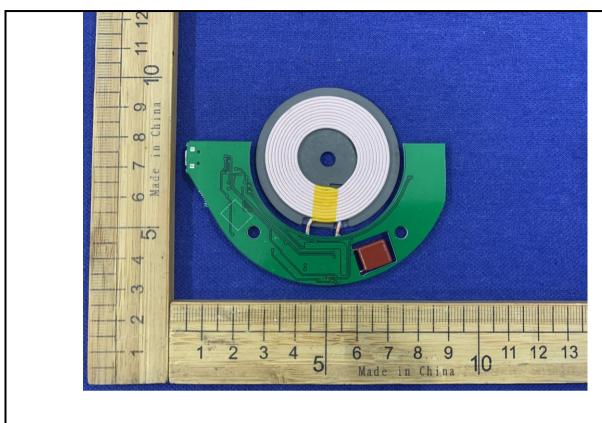


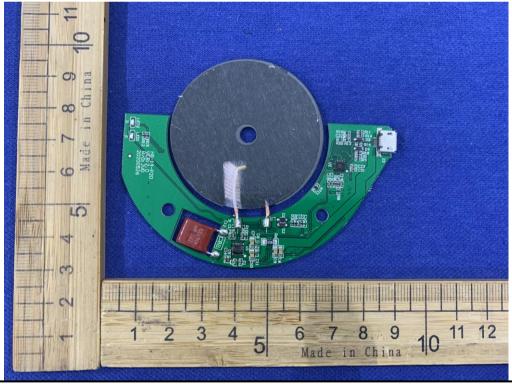




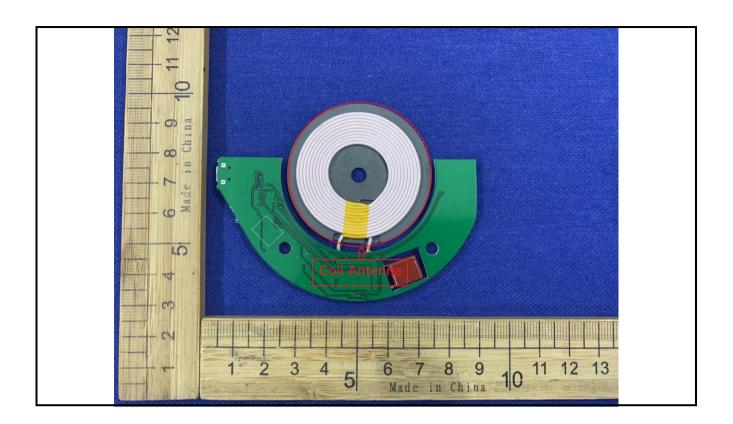












-----End of report-----