Report No: CCIS15120093601

FCC REPORT

Applicant: Shenzhen Amisir Digital Technology Co.,Ltd.

Address of Applicant: Floor 3,Block 1,Fuqiao 2nd Ind Park,Fuyong Town,Bao'an

District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Wireless Charger

Model No.: WCPA4++,WCPA4+,WCPA4

Trade mark: Amisir

FCC ID: 2AGZT-WCPA4

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

Date of sample receipt: 08 Dec., 2015

Date of Test: 09 Dec., 2015 to 06 Jan., 2016

Date of report issue: 07 Jan., 2016

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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery orfalsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.





2 Version

Version No.	Date	Description
00	07 Jan., 2016	Original

Prepared By: Quey (hen Date: 07 Jan., 2016

Report Clerk

Check By: Date: 07 Jan., 2016

Project 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

Remarks:

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	Shenzhen Amisir Digital Technology Co.,Ltd.
Address of Applicant:	Floor 3,Block 1,Fuqiao 2nd IndPark,FuyongTown,Bao'anDistrict,Shenzhen,China
Manufacturer/Factory:	Shenzhen Amisir Digital Technology Co.,Ltd.
Address of Manufacturer/ Factory:	Floor 3,Block 1,Fuqiao 2nd IndPark,FuyongTown,Bao'anDistrict,Shenzhen,China

5.2 General Description of E.U.T.

Product Name:	Wireless Charger
Model No.:	WCPA4++,WCPA4+,WCPA4
Operation Frequency:	110kHz ~ 205kHz
Modulation type:	ASK
Antenna Type:	Coil Antenna
Power supply:	DC 5.0V
Remark:	Item No.: WCPA4++,WCPA4+,WCPA4 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name and exterior colours.

5.3 Test mode

	Transmitting mode:	Keep the EUT in transmitting mode with modulation
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5.4 Description of Support Units

Description	tion Model INPUT		OUTPUT
AC adapter	AC adapter SWITCHINGADAPTOR		5V 2000mA



Report No: CCIS15120093601

5.5 Laboratory Facility

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

●FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered andfully describedin a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

●IC - Registration No.: 10106A-1

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.

● CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366

Project No.:CCIS151200936RF



Report No: CCIS15120093601

5.7 Test Instrumentslist

Radia	Radiated Emission:								
Item Test Equipment		Manufacturer	Manufacturer Model No.		Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
1	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	04-08-2015	04-08-2016			
2	BiConiLog Antenna	BiConiLog Antenna SCHWARZBECK MESS-ELEKTRONIK		CCIS0005	03-28-2015	03-28-2016			
3	3 Amplifier HP (10kHz-1.3GHz)		8447D	CCIS0003	04-01-2015	03-31-2016			
4	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016			

Cond	Conducted Emission:									
Ham	Toot Equipment	Manufacturer	Model No.	Inventory No	Cal.Date	Cal.Date				
Item	Test Equipment	wanuracturer	woder No.	Inventory No.	(mm-dd-yy)	(mm-dd-yy)				
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	06-09-2015	06-08-2016				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016				
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016				
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				





6 Test results and Measurement Data

6.1 Antenna requirement

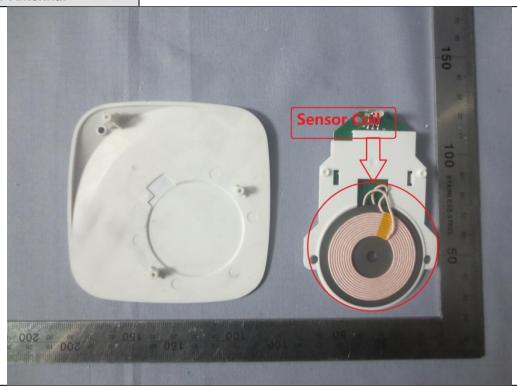
Standard requirement: FCC F

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:



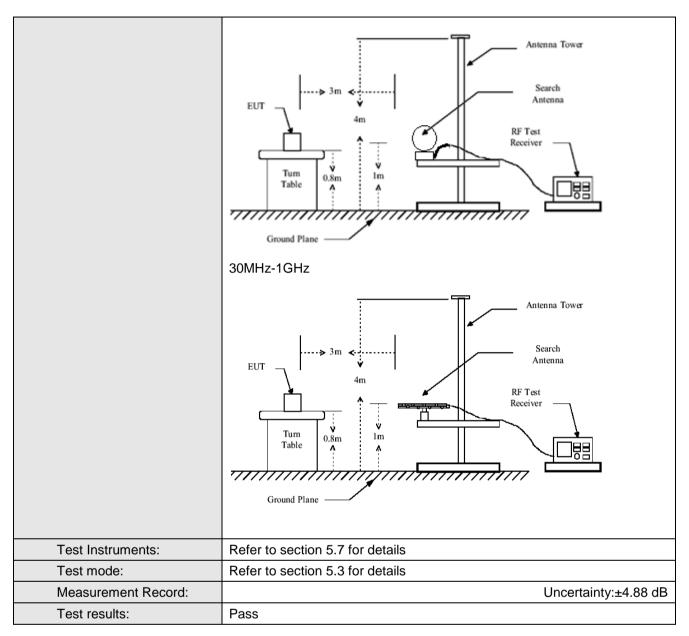


6.2 Radiated Emission

Test Requirement: FCC Part15 c Section 15.209 Test Method: ANSI C63.4:2009 Setter EquencyRange: 9kHz to 1000MHz Test site: Measurement Distance: 3m(Semi-Anechoic Chamber) Receiver setup: Frequency Detector RBW VBW Remark 9kHz:150kHz Quasi-peak Value 150kHz-30MHz Quasi-peak Value 150kHz-30MHz Quasi-peak Value 200kHz 150kHz-30MHz Quasi-peak Value 200kHz 150kHz-30MHz Quasi-peak Value 200kHz-16Hz Quasi-peak Value 200kHz Quasi-peak Value 200kHz-16Hz Quasi-peak Value 200kHz-16Hz-16Hz-16Hz-16Hz-16Hz-16Hz-16Hz-16	0.2	Radiated Emission						
Test FrequencyRange: 9kHz to 1000MHz Test site: Measurement Distance: 3m(Semi-Anechoic Chamber) Frequency Detector RBW VBW Remark 9kHz-150kHz Quasi-peak 200Hz 600Hz Quasi-peak Value 150kHz-30MHz Quasi-peak 9kHz 30kHz Quasi-peak Value 150kHz-30MHz Quasi-peak 120kHz 30kHz Quasi-peak Value Above 1GHz Peak IMHz 30kHz Quasi-peak Value Above 1GHz Peak IMHz 30kHz Quasi-peak Value Frequency Limit (uVm @30m) Limit (dBuV/m @3m) 1558MHz-13.567MHz 1558MHz 124.0 13.567MHz-13.557MHz 15848 124.0 13.410MHz-13.557MHz 15848 124.0 13.410MHz-13.710MHz 8 334 90.5 13.710MHz-13.10MHz 8 106 80.5 Remark Per FCD part 15.31, when performingmeasurements at a closer distancebhan specified, the results shallbe extrapolated to the specified distanceby either making measurements at a minum of the distances on a redial to determine the properextrapolation factor or by using thesquare of an inverse linear distance extrapolation factor of by using thesquare of an inverse linear distance extrapolation factor of by using thesquare of an inverse linear distance extrapolation factor of by using thesquare of an inverse linear distance extrapolation factor of by using thesquare of an inverse linear distance extrapolation factor of by using thesquare of an inverse linear distance extrapolation factor of by using thesquare of an inverse linear distance extrapolation factor of by a sing thesquare of an inverse linear distance extrapolation factor of by a sing thesquare of an inverse linear distance extrapolation factor of by a sing thesquare of an inverse linear distance extrapolation factor of by a sing thesquare of an inverse linear distance extrapolation factor of by a sing thesquare of an inverse linear distance extrapolation factor of by a sing thesquare of an inverse linear distance extrapolation factor of by a sing thesquare of an inverse linear distance extrapolation factor of by a sing thesquare of an inverse linear distance extrapolation factor of by a sing thesquare of an inverse linear distance extrapolation factor of by a sing the squ		Test Requirement:	FCC Part15 C Se	ection 15.209				
Test site: Measurement Distance: 3m(Semi-Anechoic Chamber) Receiver setup: Frequency Detector RBW VBW Remark 9kHz-150kHz Quasi-peak 200Hz 600Hz Quasi-peak Value 150kHz-30MHz Quasi-peak 9kHz 30kHz Quasi-peak Value Above 1GHz Quasi-peak 1 20kHz 300kHz Quasi-peak Value Above 1GHz Peak 1MHz 30kHz Quasi-peak Value A13.567MHz 13.567MHz 15848 124.0 13.567MHz-13.710kHz 15848 124.0 13.10MHz-13.570kHz 334 90.5 13.567MHz-13.710kHz 334 90.5 13.701MHz-14.010MHz 8 106 80.5 13.710MHz-14.010MHz 106 80.5 13.710MHz-13.010MHz 106 80.5 13.710MHz-14.010MHz 106 80.5 13.7		Test Method:	ANSI C63.4:2009)				
Frequency Detector RBW VBW Remark 9kHz-150kHz Quasi-peak 200Hz 600Hz Quasi-peak Value 150kHz-30MHz Quasi-peak Value 30MHz-1GHz Quasi-peak Value 30MHz-1GHz Quasi-peak Value 30MHz-1GHz Quasi-peak Value 30MHz-1GHz Quasi-peak Value Above 1GHz Peak MMHz 30MkHz Quasi-peak Value Above 1GHz Peak Value Above 1GHz Peak MMHz 334 90.5 13.553MHz-13.557MHz 15848 124.0 13.410MHz-13.357MHz 334 90.5 13.710MHz-14.310MHz 8 13.410MHz-13.3410MHz 8 10.6 80.5 13.710MHz-14.4101MHz 8 10.6 80.5 13.710MHz-14.410MHz 8 10.6 80.5 13.710MHz-13.3410MHz 8 10.6 80.5 13.710MHz-13.3410MHz 8 10.6 80.5 13.710MHz-14.410MHz 8 10.6 80.5 13.710MHz 13.710MHz-14.410MHz 13.410MHz 1		TestFrequencyRange:	9kHz to 1000MH	Z				
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150kHz-30MHz Quasi-peak 9kHz 30kHz Quasi-peak Value 30MHz-10Hz Quasi-peak Value 20MHz-10Hz Quasi-peak Value 20MHz Quasi-peak Value Above 10Hz Peak 1MHz 3MHz Peak Value Frequency		Receiver setup:	Frequency	Detector	RBW	VBW	Remark	
South Street Sout		·	9kHz-150kHz	Quasi-peak	200Hz	600Hz	Quasi-peak Value	
Limit: Frequency Limit (uV/m @3m) Limit (dBuV/m @3m)				Quasi-peak			Quasi-peak Value	
Limit: Frequency Limit (uV/m @30m) Limit (dBuV/m @3m) 13.553MHz-13.567MHz 15.848 124.0 13.410MHz-13.553MHz-8 13.410MHz-13.553MHz-8 13.410MHz-13.710MHz 334 90.5 13.110MHz-14.010MHz 8 13.710MHz-14.010MHz 9 13.710MHz-14.010MHz 9 13.710MHz-14.010MHz 19 13.710MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.010MHz-14.01MHz-14.010MHz-14.01MHz-14.010MHz-14.01MHz-14.01MHz-14.01MHz-14.010MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01MHz-14.01M			30MHz-1GHz	Quasi-peak			Quasi-peak Value	
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fundamental signal) 13.410MHz-13.553MHz & 106		Limit:	-			230m)	,	
13.567MHz-13.710MHz					15848		124.0	
13.710MHz-14.010MHz Remark: Per FCC part 15.31, when performingmeasurements at a closer distancethan specified, the results shallbe extrapolated to the specified distanceby either making measurementsat a minimum of two distances on atleast one radial to determine the properextrapolation factor or by using thesquare of an inverse linear distance extrapolationfactor (40 dB/decade). Limit:		fundamental signal)			334		90.5	
distancethy either making measurementsat a minimum of two distances on atleast one radial to determine the properextrapolation factor or by using thesquare of an inverse linear distance extrapolation factor (40 dB/decade). Limit: (Spurious Emissions) Frequency (MHz) 0.009-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 30-88 100 3-88-216 150 3-1705-30 30-88 100 3-88-216 150 3-216-960 200 3-Above 1GHz 3-O Above 1GHz 4-O Above 1GHz 5-O Above 1GHz 6-O Above 1GHz 6-			13.710MHz-14.	010MHz				
(Spurious Emissions) 0.099-0.490 2400/F(kHz) 300 0.499-1.705 24000/F(kHz) 30 1.705-30 30 30 30-88 100 3 88-216 150 3 216-960 200 3 Above 1GHz 500 3 Test Procedure: a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas 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 thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatabletable 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 SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, 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, quasipeak or average method as specified andthen reported in a data sheet.			distancethan specified, the results shallbe extrapolated to the specified distanceby either making measurementsat a minimum of two distances on one radial to determine the properextrapolation factor or by using thesquar inverse linear distance extrapolationfactor (40 dB/decade).					
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1.705-30 30 30 30 30 30 30 30 30 30-88 100 3 30-88 100 3 30-88 100 3 30-86 216-960 200 3 3 40-960 200 3 3 40-960 200 3 3 40-960 30 3 30-960 30 40-960 30 40-960 30 40-960 30 40-960 30 40-960 30 40-960 40-960 30 40-960 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40 40-960 40		(Spurious Emissions)	0.009-0.4	90	2400/F(kHz)	300	
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B8-216			30-88		30		30	
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Test estimate		rest riocedure.	 a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas 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 thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatabletable 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 SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, 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, quasipeak or average method as specified andthen reported in a data 					
		Test setup:	9kHz-30MHz					





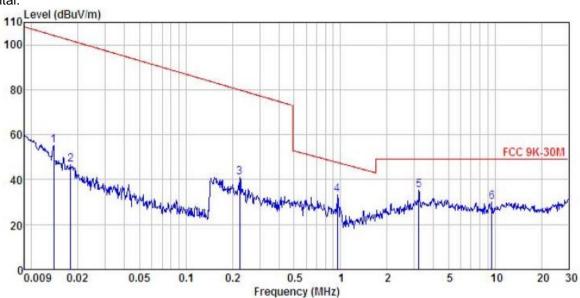






9kHz-30MHz:

Horizontal:



Site

: 3m chamber : FCC 9K-30M 3m LOOP ANTENNA(9K-30M) VERTICAL Condition

: Wireless Charger : WCPA4++ EUT

Model

Test mode: Wireless Charging Mode Power Rating: AC 120/60Hz Environment: Temp:25.5°C Huni:55% Test Engineer: Carey

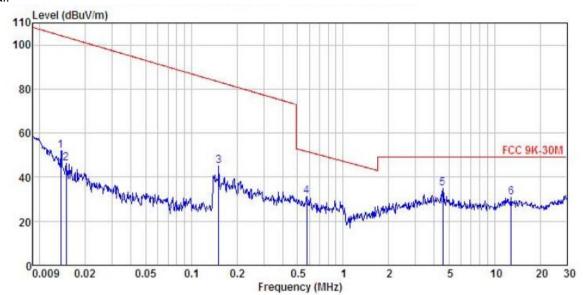
REMARK

	Freq		Antenna Factor						
	MHz	dBu∜	−−dB/m	₫B	dB	dBuV/m	dBuV/m	dB	
1	0.014	36.39	18.62	0.04	0.00	55.05	104.16	-49.11	QP
2	0.018	29.98	16.75	0.05	0.00	46.78	101.96	-55.18	QP
2	0.224	18.78	22.07	0.34	0.00	41.19	79.87	-38.68	QP
4	0.955	10.34	22.39	0.61	0.00	33.34	47.65	-14.31	QP
4 5 6	3.224	10.85	23.72	0.66	0.00	35.23	49.00	-13.77	QP
6	9.559	9.09	20.35	0.50	0.00	29.94	49.00	-19.06	QP





Vertical:



: 3m chamber : FCC 9K-30M 3m LOOP ANTENNA(9K-30M) HORIZONTAL : Wireless Charger Condition

EUT

: WCFA4++
Test mode : Wireless Charging Mode
Power Rating : AC 120/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
REMARK :

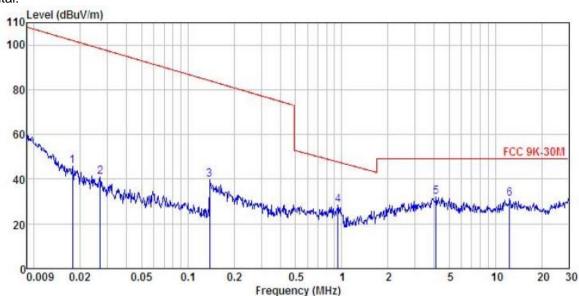
THERE									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
-	MHz	dBu∀	dB/m	₫B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	0.014	33.35	18.74	0.04	0.00	52.13	104.31	-52.18	QP
2	0.015	27.97	18.14	0.05	0.00	46.16	103.60	-57.44	QP
3	0.151	23.46	21.53	0.27	0.00	45.26	83.28	-38.02	QP
4	0.577	8.31	22.47	0.50	0.00	31.28	51.68	-20.40	QP
5	4.569	10.88	23.26	0.61	0.00	34.75	49.00	-14.25	QP
6	12.905	7.80	22.40	0.62	0.00	30.82	49.00	-18.18	QP





Standby mode:

Horizontal:



Site

: 3m chamber : FCC 9K-30M 3m LOOP ANTENNA(9K-30M) HORIZONTAL Condition

EUT : Wireless Charger

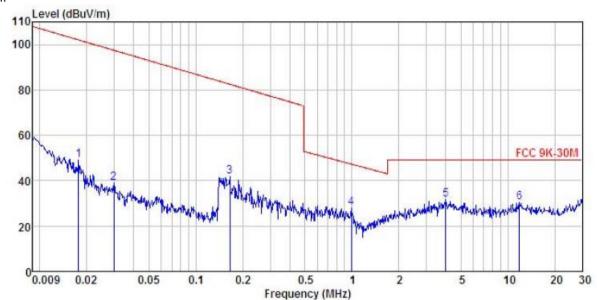
: WCPA4++
Test mode : Standby Mode
Power Rating : AC 120/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
REMARK :

	Freq		Antenna Factor				Limit Line	Over Limit	Remark
	MHz	dBu∜	dB/m	₫B	<u>dB</u>	dBuV/m	dBuV/m	dB	
1	0.018	28.97	16.81	0.05	0.00	45.83	102.03	-56.20	Peak
2	0.027	24.28	16.56	0.10	0.00	40.94	98.41	-57.47	Peak
2	0.139	17.94	21.41	0.25	0.00	39.60	84.06	-44.46	Peak
4	0.947	5.23	22.40	0.61	0.00	28.24	47.72	-19.48	Peak
4 5 6	4.112	7.32	24.24	0.65	0.00	32.21	49.00	-16.79	Peak
6	12.392	7.93	22.72	0.60	0.00	31.25	49.00	-17.75	Peak





Vertical:



: 3m chamber : FCC 9K-30M 3m LOOP ANTENNA(9K-30M) VERTICAL : Wireless Charger Condition

EUT

Model : WCPA4++ Test mode : Standby Mode Power Rating : AC 120/60Hz

Environment : Temp:25.5°C Huni:55% Test Engineer: Carey REMARK :

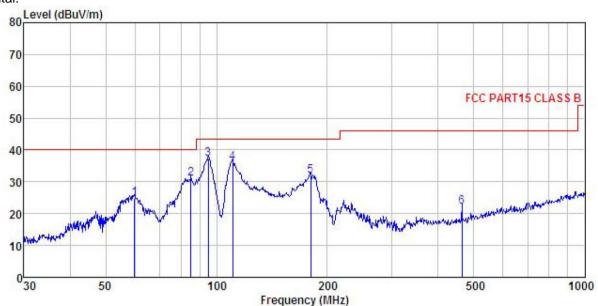
		APPROX. 2. 10.10.10.10.10.10.10.10.10.10.10.10.10.1		A SAME OF THE PROPERTY OF THE					
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	<u>dB</u>	
1	0.018	32.13	16.87	0.05	0.00	49.05	102.10	-53.05	Peak
2	0.030	22.05	16.77	0.11	0.00	38.93	97.49	-58.56	Peak
2	0.166	19.95	21.66	0.29	0.00	41.90	82.50	-40.60	Peak
	0.994	4.97	22.37	0.61	0.00	27.95	47.33	-19.38	Peak
4 5 6	4.013	6.63	24.47	0.66	0.00	31.76	49.00	-17.24	Peak
6	11.899	6.88	22.85	0.59	0.00	30.32	49.00	-18.68	Peak





30MHz-1000MHz

Horizontal:



: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL : Windless Charger Condition

EUT

Model : WCPA4++

Test mode : Wireless Charging Mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

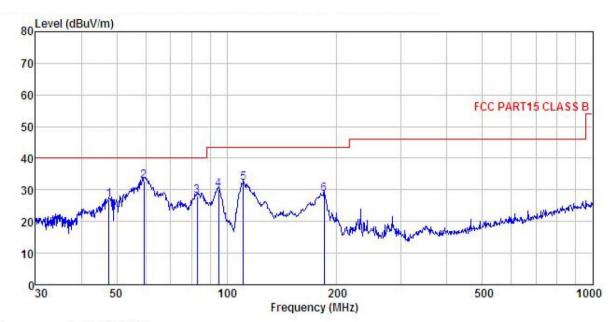
Test Engineer: Carey REMARK :

	Freq		Intenna Factor						Remark
_	MHz	dBu₹	<u>dB</u> /m	<u>d</u> B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	59.859	41.22	12.71	0.69	29.77	24.85	40.00	-15.15	QP
2	85.298	49.24	10.45	0.88	29.60	30.97	40.00	-9.03	QP
2 3 4	95.093	52.85	12.84	0.93	29.55	37.07	43.50	-6.43	QP
4	110.569	52.34	12.15	1.05	29.45	36.09	43.50	-7.41	QP
5	180.017	49.70	9.68	1.36	28.97	31.77	43.50	-11.73	QP
6	463.970	33.14	15.71	2.30	28.89	22.26	46.00	-23.74	QP





Vertical:



: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL : Wireless Charger Condition EUT

Model : WCPA4++

Test mode : Wireless Charging Mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK

α	•								
	Freq		Antenna Factor				Limit Line		
_	MHz	dBu∇	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
1	47.659	42.75	13.39	0.59	29.84	26.89	40.00	-13.11	QP
2 3 4 5	59.441	49.19	12.73	0.69	29.77	32.84	40.00	-7.16	QP
3	82.938	47.12	9.57	0.87	29.62	27.94	40.00	-12.06	QP
4	95.093	45.83	12.84	0.93	29.55	30.05	43.50	-13.45	QP
5	110.957	48.55	12.04	1.05	29.45	32.19	43.50	-11.31	QP
6	184.490	46.27	10.08	1.36	28.94	28.77	43,50	-14.73	QP





6.3 Conducted Emission

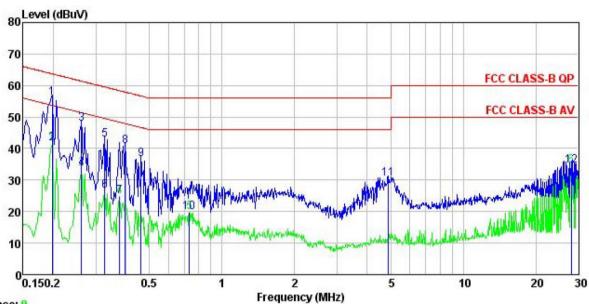
Test Requirement:	FCC Part15 B Section 15.20)7						
Test Method:	ANSI C63.4:2009							
TestFrequencyRange:	150kHz to 30MHz	150kHz to 30MHz						
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz							
Limit:		Limit	(dBµV)					
	Frequency range (MHz)	Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	0.5-30	60	50					
	* Decreases with the logarit	nm of the frequency.						
Test setup:	Reference LISN 40cm 40cm E.U.T Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN. Line Impedence Stabilization Net Test table height=0.8m	80cm Filter AC EMI Receiver	power					
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). It provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. 							
Test environment:	Temp.: 23°C	Humid.: 56%	Press.: 101kPa					
Measurement Record:		•	Uncertainty: 3.28dB					
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Refer to section 5.3 for deta	Refer to section 5.3 for details						
Test results:	Pass							





Measurement Data:

Line:



Trace: 9

: CCIS Shielding Room : FCC CLASS-B QP LISN LINE Site

Condition : 936RF Job No.

EUT : Wireless Charger

Model : WCPA4++

Test Mode : wireless charging mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey

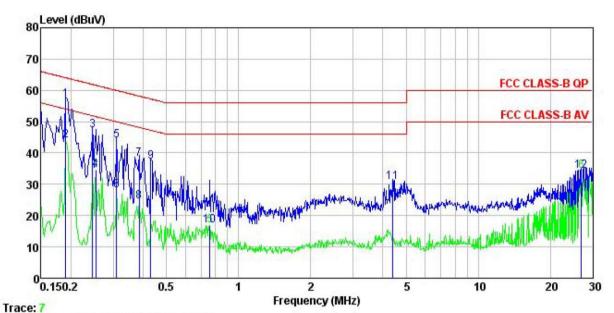
Remark

	Freq		LISN Factor	Cable Loss	Level	Limit Line		Remark
	MHz	dBu∀	dB	dB	dBu∀	dBu∀	dВ	
1	0.198	45.03	0.28	10.76	56.07	63.71	-7.64	QP
2	0.198	30.65	0.28	10.76	41.69	53.71	-12.02	Average
3	0.262	36.84	0.27	10.75	47.86	61.38	-13.52	QP
4	0.262	22.77	0.27	10.75	33.79	51.38	-17.59	Average
1 2 3 4 5 6 7 8 9	0.327	31.79	0.27	10.73	42.79	59.53	-16.74	QP
6	0.327	15.53	0.27	10.73	26.53	49.53	-23.00	Average
7	0.377	13.83	0.28	10.72	24.83	48.34	-23.51	Average
8	0.398	29.63	0.28	10.72	40.63	57.90	-17.27	QP
9	0.461	25.47	0.29	10.75	36.51	56.67	-20.16	QP
10	0.731	8.72	0.22	10.78	19.72	46.00	-26.28	Average
11	4.874	19.15	0.29	10.85	30.29	56.00	-25.71	QP
12	28.003	22.87	0.74	10.87	34.48	50.00	-15.52	Average





Neutral:



Site

: CCIS Shielding Room : FCC CLASS-B QP LISN NEUTRAL : 936RF Condition

Job No.

EUT : Wireless Charger

: WCPA4++ Model

Test Mode : wireless charging mode

Power Rating: AC 120/60Hz Environment: Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer: Carey

CEMAIK	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark	
- T	MHz	dBu∜	<u>d</u> B	dB	dBu₹	dBu₹	dB		
1	0.190	45.92	0.25	10.76	56.93	64.02	-7.09	QP	
2	0.190	33.11	0.25	10.76	44.12	54.02	-9.90	Average	
3	0.246	36.19	0.26	10.75	47.20	61.91	-14.71	QP	
4 5 6 7	0.253	23.49	0.26	10.75	34.50	51.64	-17.14	Average	
5	0.310	33.00	0.26	10.74	44.00	59.97	-15.97	QP	
6	0.310	16.96	0.26	10.74	27.96	49.97	-22.01	Average	
7	0.385	27.16	0.25	10.72	38.13	58.17	-20.04	QP	
8	0.385	13.65	0.25	10.72	24.62	48.17	-23.55	Average	
9	0.431	26.17	0.26	10.73	37.16	57.24	-20.08	QP	
10	0.759	5.86	0.19	10.80	16.85	46.00	-29.15	Average	
11	4.407	19.44	0.28	10.87	30.59	56.00	-25.41	QP	
12	26.984	22.57	0.66	10.87	34.10	50.00	-15.90	Average	





6.4 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.215 (c)					
Test Method:	ANSI C63.4:2009					
Receiver setup:	RBW=1 kHz, VBW=3 kHz, detector: Peak					
Limit:	The fundamentalemission be kept within atleast the central 80% of the permittedband					
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. 					
	3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points.4. Read 20dB bandwidth.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					
	·					

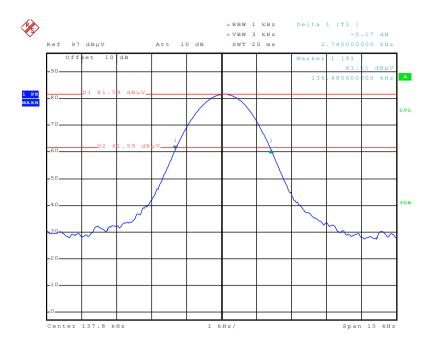
Measurement Data

20dB bandwidth (kHz)	Limits
2.74	N/A

Remark: For report purpose only.

Test plot as follows:





Date: 23.DEC.2015 16:04:41