

# **FCC Test Report**

Report No.: AGC11398201001FE04

FCC ID	: 2AXWP-TK-01
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Wireless charger
BRAND NAME	: N/A
MODEL NAME	: TK-01
APPLICANT	: Dongguan Sanqishi Technology Co.,Ltd
DATE OF ISSUE	: Nov. 13, 2020
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 Rules
<b>REPORT VERSION</b>	: V1.0





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# **REPORT REVISE RECORD**

	Report Version	Revise Time	Issued Date	Valid Version	Notes
)	V1.0		Nov. 13, 2020	Valid	Initial Release

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1. VERIFICATION OF CO						
Applicant	Dongguan Sanqishi Technology Co.,Ltd					
Address	Room 701, 101 Jinfenghuang Avenue, Fenggang Town, Dongguan, Guangdong					
Manufacturer	Shenzhen Joway Power Supply Co., Ltd.					
Address	Floor 1-5 of Bldg 10th and Bldg 11th, Antuoshan High-Tech Industrial Park, Sha'er Community, Shajing Street, Bao'an District, Shenzhen					
Factory	Shenzhen Joway Power Supply Co., Ltd.					
Address	loor 1-5 of Bldg 10th and Bldg 11th, Antuoshan High-Tech Industrial Park, Sha'er Community, Shajing Street, Bao'an District, Shenzhen					
Product Designation	Wireless charger					
Brand Name	me N/A					
Test Model	TK-01					
Date of test	Oct. 26, 2020 to Nov. 13, 2020					
Deviation	No any deviation from the test method					
Condition of Test Sample	on of Test Sample Normal					
Test Result	Pass					
Report Template	eport Template AGCRT-US-BR/RF					

#### **1. VERIFICATION OF CONFORMITY**

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with Section 15.207, 15.209, 15.203 of the FCC Part 15, Subpart C Rules. The results of testing in this report apply to the product/system which was tested only.

Sky dong Prepared By Sky Dong Nov. 13, 2020 (Project Engineer) Max Zhan **Reviewed By** Max Zhang Nov. 13, 2020 (Reviewer) Approved By fores Forrest Lei Nov. 13, 2020 (Authorized Officer)

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# 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	110-205 kHz				
Test Frequency	145kHz				
Maximum field strength	52.75dBuV/m(PK)@3m				
Modulation	PWM				
Number of channels					
Antenna Designation	Coil Antenna (Met 15.203 Antenna requirement)				
Hardware Version	V0.0				
Software Version	V0.0				
Power Supply	DC 9V by adapter				

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# **3. MEASUREMENT UNCERTAINTY**

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in

- measurement" (GUM) published by CISPR and ANSI.
- Uncertainty of Conducted Emission,  $Uc = \pm 3.2 dB$
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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# 4. DESCRIPTION OF TEST MODES

NO.		TEST MODE DESCRIPTION
1		Wireless charging Mode(Full load)
2		Wireless charging Mode(half load)
3	C.	Wireless charging Mode(Null load)

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# **5. SYSTEM TEST CONFIGURATION**

**5.1. CONFIGURATION OF EUT SYSTEM** 

Configure :

EUT	C	AE	

# 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless charger	TK-01	2AXWP-TK-01	EUT
2	Adapter	MX24Z1-1900940	DC 9V	AE
3	Wireless Load	N/A	10W	AE

## 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.209	Radiated Emission	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Compliant

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# 6. TEST FACILITY

Test Site         Attestation of Global Compliance (Shenzhen) Co., Ltd						
Location1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community Fuhai Street, Bao'an District, Shenzhen, Guangdong, China						
Designation Number	CN1259					
FCC Test Firm Registration Number	975832					
A2LA Cert. No.	5054.02					
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA					

#### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02,2021
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

## TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
ANTENNA	SCHWARZBECK	VULB9168	D69250	Jan. 09, 2019	Jan. 08, 2021
Test software	FARA	EZ_EMC (Ver.RA-03A)	N/A	N/A	N/A

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# 7. RADIATED EMISSION

## 7.1TEST LIMIT

## Standard FCC 15.209

Frequency	Distance	Field	Field Strengths Limit			
(MHz)	Meters	μ <b>V/m</b>	dB(µV)/m			
0.009 ~ 0.490	300	2400/F(kHz)				
0.490 ~ 1.705	30	24000/F(kHz)				
1.705 ~ 30	30	30	0			
30 ~ 88	3	100	40.0			
88 ~ 216	3	150	43.5			
216 ~ 960	3	200	46.0			
960 ~ 1000	3	500	54.0			
Above 1000	3	Other:74.0 dB(µV)/m	Other:74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)			

Remark: (1) Emission level dB  $\mu$  V = 20 log Emission level  $\mu$  V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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## 7.2. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

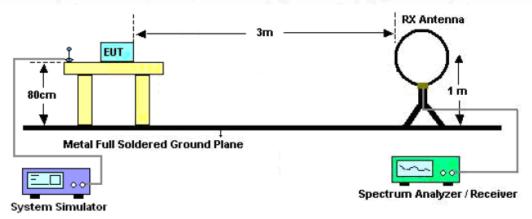
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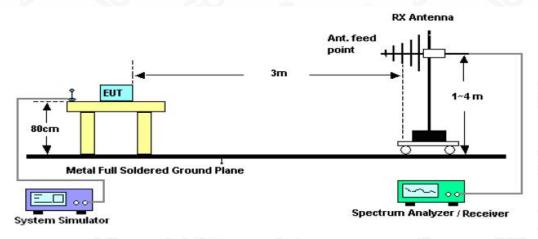
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## 7.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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# 7.4. TEST RESULT

Frequency MHz	Polarization	Reading dB(uV) PK	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) PK	Margin dB	Pass/Fail
0.145	Face	42.35	10.40	52.75	104.38	-51.63	Pass
0.145	Side	33.89	10.40	44.29	104.38	-60.09	Pass

#### RADIATED EMISSION BELOW 30MHZ

Note1: The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported. The peak level of the emission is less than the average limit, so the average level shall be less than the limit without test.

Note 2: Level(dBuV/m)=Reading(dBuV)+Factor(dB/m)

Factor(dB/m)=Antenna Factor(dB/m)+Cable loss(dB)+Attenuation(dB)for Attenuator

Margin=Level-Limit

For 0.145MHz

Limit(dBuV/m)=20log(2400/F(kHz))+40log(300/3)=104.38dBuV/m.

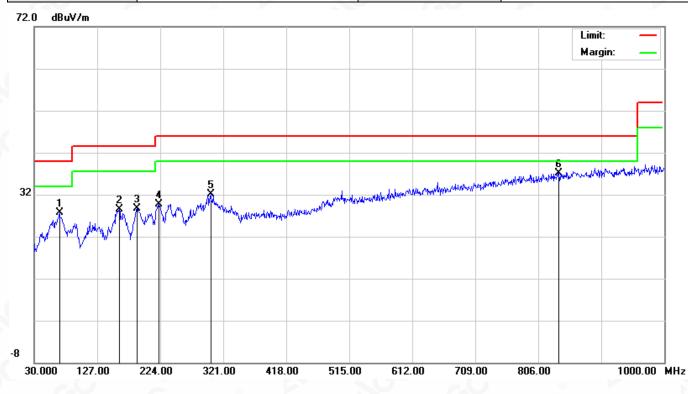
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EUT :	UT : Wireless charger		TK-01			
Temperature :	<b>20</b> ℃	Relative Humidtity:	48%			
Pressure :	1010 hPa	Test Voltage :	DC9V			
Test Mode :	Mode 1	Polarization :	Horizontal			

#### **RADIATED EMISSION 30MHz-1GHz**



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		68.7999	10.78	16.96	27.74	40.00	-12.26	peak
2		160.9499	12.55	15.95	28.50	43.50	-15.00	peak
3		188.1100	16.72	11.91	28.63	43.50	-14.87	peak
4		222.0600	14.21	15.59	29.80	46.00	-16.20	peak
5		301.6000	10.69	21.46	32.15	46.00	-13.85	peak
6	*	838.0099	6.27	30.90	37.17	46.00	-8.83	peak

#### **RESULT: PASS**

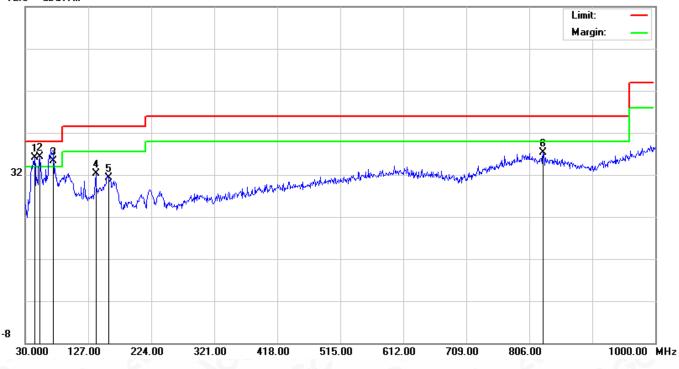
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EUT :	Wireless charger	Model Name. :	TK-01
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC9V
Test Mode :	Mode 1	Polarization :	Vertical

72.0 dBu∀/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	İ	44.5500	21.66	14.47	36.13	40.00	-3.87	peak
2	*	52.3100	22.08	14.22	36.30	40.00	-3.70	peak
3	İ	73.6500	18.99	16.32	35.31	40.00	-4.69	QP
4		138.6400	13.10	19.14	32.24	43.50	-11.26	peak
5		159.0100	12.05	19.19	31.24	43.50	-12.26	peak
6		827.3400	7.59	29.67	37.26	46.00	-8.74	peak

# RESULT: PASS Note:

Note:

Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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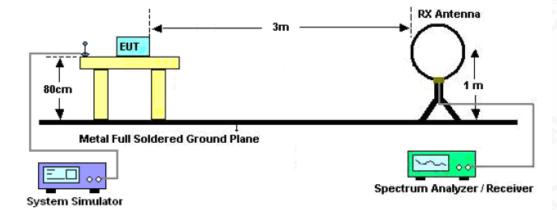


# 8. 20DB BANDWIDTH

#### **8.1. MEASUREMENT PROCEDURE**

- 1. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2, Set the EUT Work on operation frequency.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

#### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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#### **8.3. MEASUREMENT RESULTS**

TEST ITEM	20DB BANDWIDTH	0	~GC	- G	®	
TEST MODULATION	FSK	®		No	~GC	-0
				(8)		

Test Data (Hz)	Criteria	
Operate Channel	817	PASS

#### TEST PLOT OF BANDWIDTH



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# 9. FCC LINE CONDUCTED EMISSION TEST

## 9.1. LIMITS OF LINE CONDUCTED EMISSION TEST

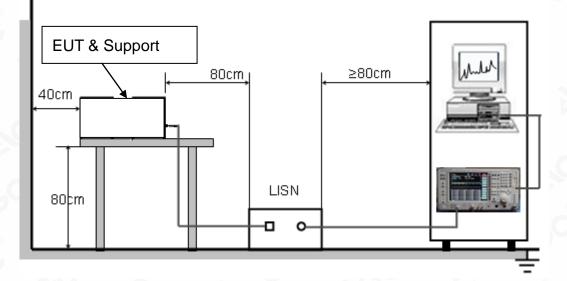
Francisco	Maximum RF Line Voltage			
Frequency	Q.P.( dBuV)	Average( dBuV)		
150kHz~500kHz	66-56	56-46		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

# 9.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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## 9.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

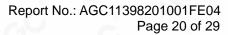
- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN..
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

#### 9.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

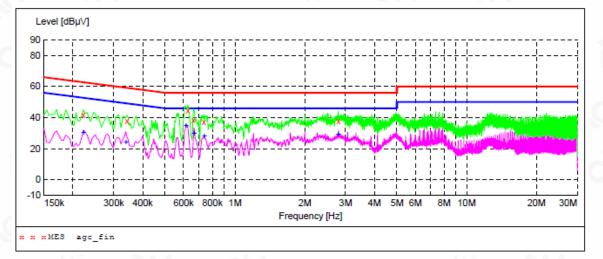
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#### 9.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST





#### MEASUREMENT RESULT: "agc\_fin"

2020/10/28 13:54 Frequency Level Transd Limit Margin Detector Line MHz dBuV dB dBuV dB 0.222000 41.80 11.3 63 20.9 QP ь1 11.3 59 21.5 0.342000 37.70 ь1 QP 44.70 56 0.626000 11.3 11.3 ь1 QP 0.662000 38.60 56 17.4 ь1 11.3 QP 0.734000 37.10 56 18.9 ь1 11.3 QP 2.798000 37.90 56 18.1 11.4 ь1 QP

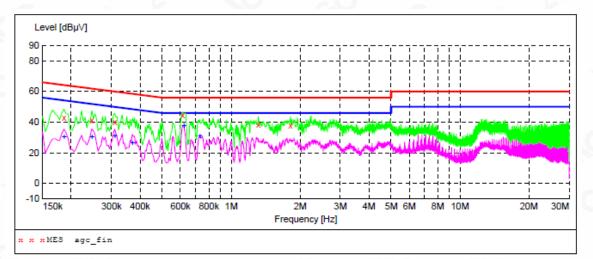
#### MEASUREMENT RESULT: "agc\_fin2"

2020/10/28 1	3:54					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.222000	30.70	11.3	53	22.0	AV	L1
0.338000	24.60	11.3	49	24.7	AV	L1
0.614000	35.00	11.3	46	11.0	AV	L1
0.666000	29.90	11.3	46	16.1	AV	L1
0.738000	28.10	11.3	46	17.9	AV	L1
2.798000	29.30	11.4	46	16.7	AV	L1

#### **RESULT: PASS**

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated frame/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15da/Castra the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.





#### LINE CONDUCTED EMISSION TEST-N

#### MEASUREMENT RESULT: "agc\_fin"

2020/10/28 13:49										
Frequency	Level	Transd	Limit	Margin	Detector	Line				
MHz	dBµV	dB	dBµV	dB						
0.186000	43.00	11.3	64	21.2	QP	N				
0.246000	41.30	11.3	62	20.6	QP	N				
0.310000	40.10	11.3	60	19.9	QP	N				
0.614000	44.70	11.3	56	11.3	QP	N				
1.314000	38.40	11.3	56		OP	N				
1.814000	37.90	11.3	56	18.1	QP	N				

#### MEASUREMENT RESULT: "agc\_fin2"

2020/10/28 13:50										
Frequency MH:	y Level z dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line				
0.186000	0 30.70	11.3	54	23.5	AV	N				
0.246000	30.60	11.3	52	21.3	AV	N				
0.310000	0 31.00	11.3	50	19.0	AV	N				
0.370000	26.60	11.3	49	21.9	AV	N				
0.622000	37.70	11.3	46	8.3	AV	Ν				
0.730000	0 31.10	11.3	46	14.9	AV	N				

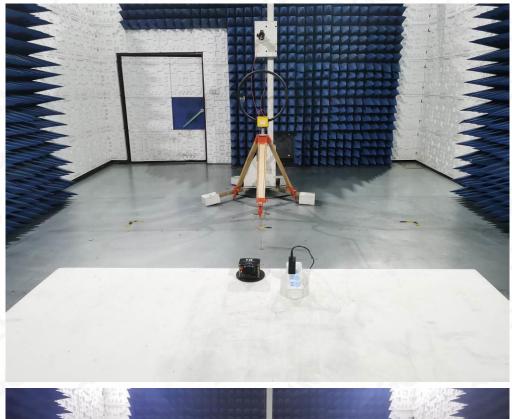
## **RESULT: PASS**

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issue of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ





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FCC LINE CONDUCTED EMISSION TEST SETUP

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# APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT

BOTTOM VIEW OF EUT

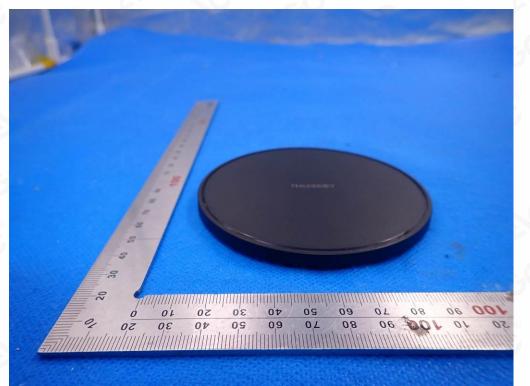


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated restriction of Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter aphorization of AGE the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@ago-cert.com.

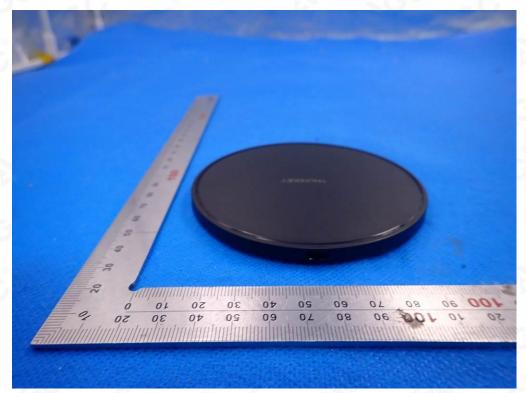


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#### FRONT VIEW OF EUT



BACK VIEW OF EUT

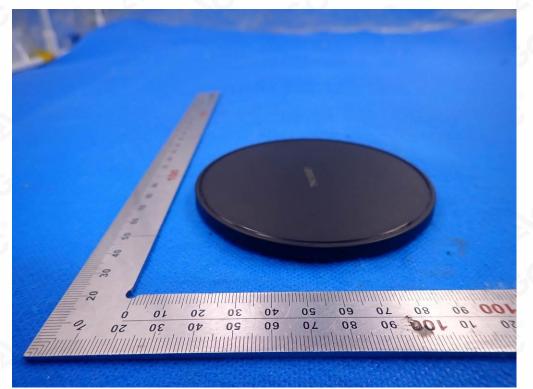


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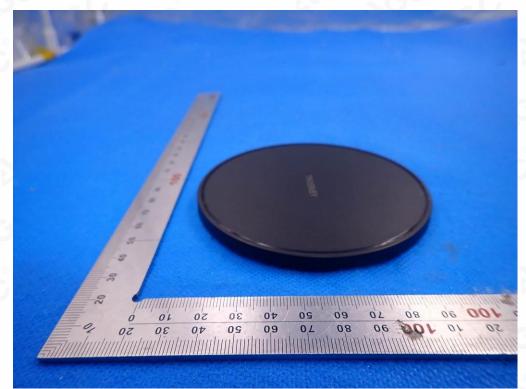


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#### LEFT VIEW OF EUT



**RIGHT VIEW OF EUT** 



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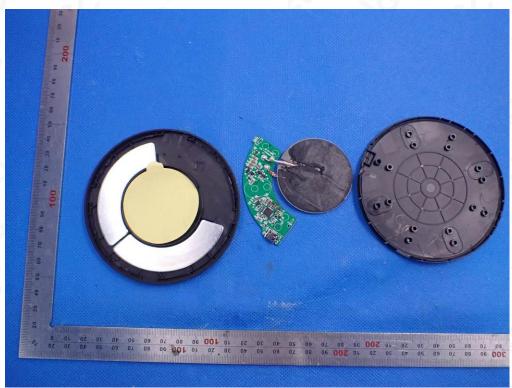


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# VIEW OF EUT (PORT)



OPEN VIEW OF EUT

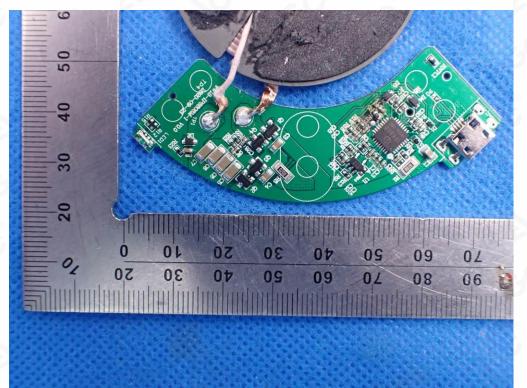


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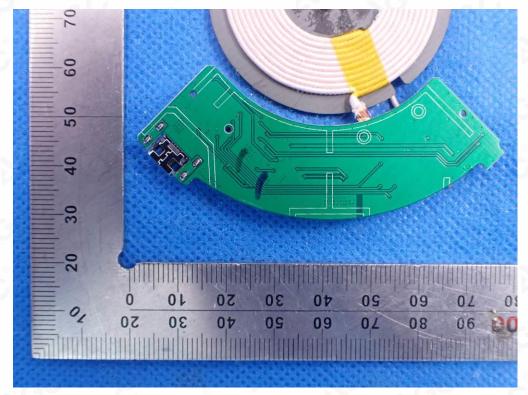


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#### **INTERNAL VIEW OF EUT-1**



**INTERNAL VIEW OF EUT-2** 

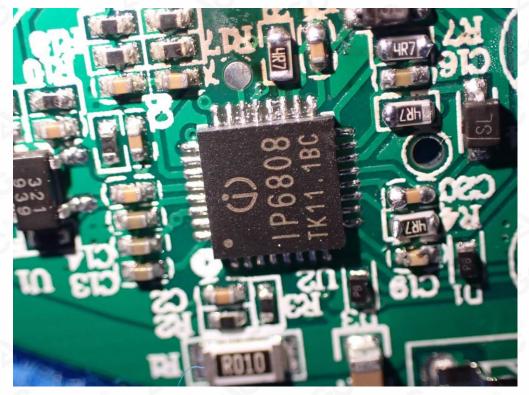


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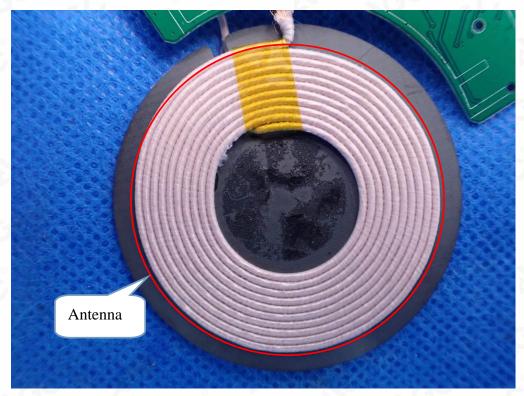


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## **INTERNAL VIEW OF EUT-3**



**INTERNAL VIEW OF EUT-4** 



# ----END OF REPORT----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter approver, and AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



#### Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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