

FCC Test Report

Report No.: AGC05803191104FE03

FCC ID : ZBCWD-216A

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Wireless Charge Power bank, Power Bank

BRAND NAME : DNS, iLuv

MODEL NAME : WD-216A, MYPOWER10QBK

APPLICANT: SHENZHEN DNS INDUSTRIES CO., LTD.

DATE OF ISSUE : Dec. 10, 2019

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Rules

REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	7	Dec. 10, 2019	Valid	Initial Release



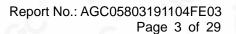
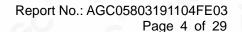




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1. VERIFICATION OF CONFORMITY

1. VERIFICATION OF CO			
Applicant	SHENZHEN DNS INDUSTRIES CO., LTD.		
Address	23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China		
Manufacturer	SHENZHEN DNS INDUSTRIES CO., LTD.		
Address	23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China		
Product Designation	Wireless Charge Power bank, Power Bank		
Brand Name	DNS, iLuv		
Test Model	WD-216A		
Series Model	MYPOWER10QBK		
Difference description	All the same except for brand name and model name, the corresponding relationship are as follow: DNS is corresponding WD-216A ; iLuv is corresponding MYPOWER10QBK ;		
Date of test	Nov. 21, 2019 to Dec. 10, 2019		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BR/RF		

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.

Prepared By	Jeast zhan	
	Jeast Zhan (Project Engineer)	Dec. 10, 2019
Reviewed By	Max Zhang	
- GC	Max Zhang (Reviewer)	Dec. 10, 2019
Approved By	Formere	
GC C	Forrest Lei (Authorized Officer)	Dec. 10, 2019

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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	178.6 kHz		
Maximum field strength	55.65dBuV/m(PK)@3m		
Modulation	FSK		
Number of channels	1		
Antenna Gain	2dBi		
Antenna Designation Integrated Antenna (Met 15.203 Antenna requirer			
Hardware Version	WD-216A/B-WL-5W		
Software Version V1.0			
Power Supply DC 5V 2A by Micro B or DC 5V 3A by Type C			



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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 = ±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	Wireless charging Mode(Null load)

Note:

1. The mode 1 was the worst case and only the data of the worst case record in this report.



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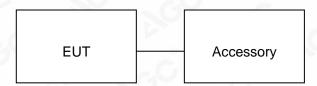


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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Charge Power bank, Power Bank	WD-216A	ZBCWD-216A	EUT
2	Load	N/A	5W	Accessory
3	Adapter	N/A	DC 5V 2A	Accessory
4	USB Cable	N/A	1.0m, Unshielded	Accessory

5.3. SUMMARY OF TEST RESULTS

		(6)
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		
Location	1-2/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	ESPI	101206	Jun.12, 2019	Jun.11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
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	Jun.12, 2019	Jun.11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun.12, 2019	Jun.11, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	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	l Strengths Limit	
(MHz)	Meters	μ V/m	dB(μV)/m	
0.009 ~ 0.490	300	2400/F(kHz)	GY 20 2	
0.490 ~ 1.705	30	24000/F(kHz)		
1.705 ~ 30	30	30		
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 (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

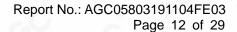
- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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

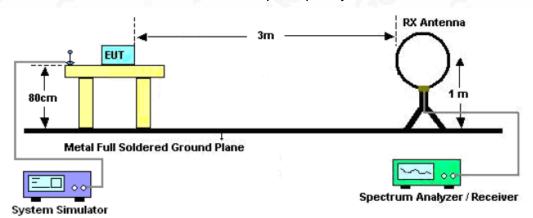




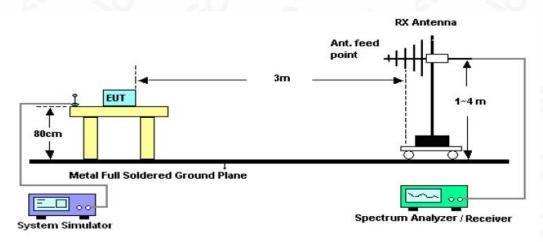


7.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz





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7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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
0.1786	Face	45.25	10.40	55.65	102.57	-46.92	Pass
0.1786	Side	35.18	10.40	45.58	102.57	-56.99	Pass

Note1: No other emissions found between lowest internal used/generated frequencies to 30MHz. 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

Limit(dBuV/m)=20log(2400/F(kHz))+40log(300/3)=102.57dBuV/m.

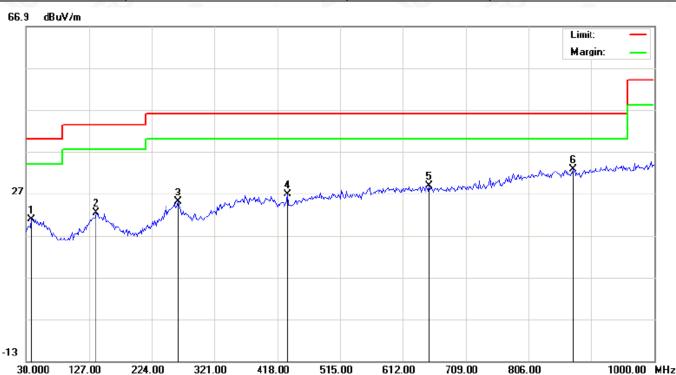




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RADIATED EMISSION 30MHz-1GHz

EUT:	Wireless Charge Power bank, Power Bank	Model Name. :	WD-216A
Temperature:	23 ℃	Relative Humidity:	58%
Pressure:	1010 hPa	Test Voltage :	DC 5V
Test Mode :	Mode 1	Polarization :	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	₫BuV	dB/m	dBuV/m	dBuV/m	₫B		cm	degree	
1		38.0833	1.35	19.41	20.76	40.00	-19.24	peak			
2		138.3165	3.36	19.12	22.48	43.50	-21.02	peak			
3		264.4166	6.35	18.67	25.02	46.00	-20.98	peak			
4		434.1666	3.17	23.67	26.84	46.00	-19.16	peak			
5		652.4166	1.25	27.58	28.83	46.00	-17.17	peak			
6	*	875.5167	1.48	31.38	32.86	46.00	-13.14	peak			

RESULT: PASS



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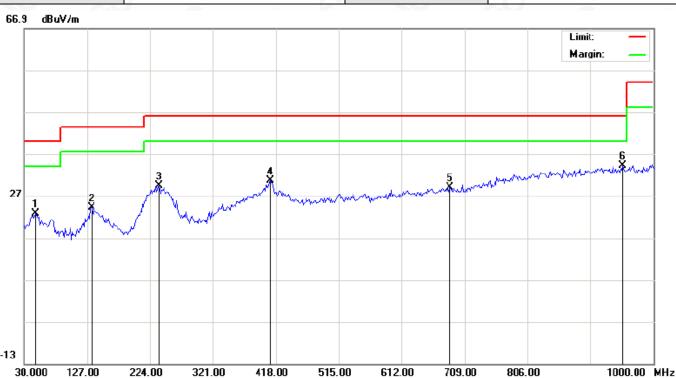
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EUT:	Wireless Charge Power bank,Power Bank	Model Name. :	WD-216A
Temperature:	23℃	Relative Humidity:	58%
Pressure:	1010 hPa	Test Voltage :	DC 5V
Test Mode :	Mode 1	Polarization:	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	₫B		cm	degree	
1		47.7832	3.06	19.81	22.87	40.00	-17.13	peak			
2		133.4667	5.43	18.82	24.25	43.50	-19.25	peak			
3		236.9333	10.87	18.44	29.31	46.00	-16.69	peak			
4		409.9166	7.45	23.18	30.63	46.00	-15.37	peak			
5		686.3667	0.98	27.99	28.97	46.00	-17.03	peak			
6	*	953.1167	1.97	32.16	34.13	46.00	-11.87	peak			

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss, Margin=Limit-Level.

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



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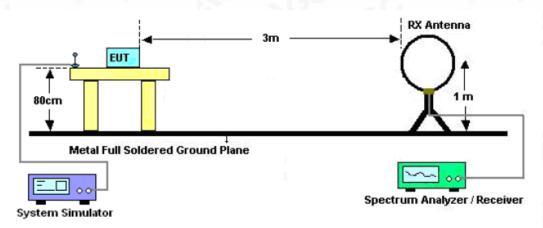
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8. 20DB BANDWIDTH

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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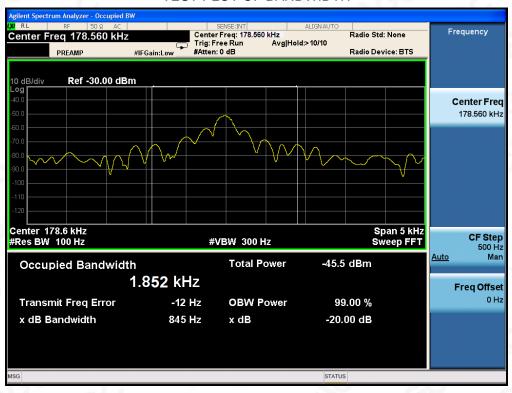


8.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH	10°	-G	0	
TEST MODULATION	FSK		10	10°	-0

Test Data (Hz)	Criteria	
Operate Channel	847	PASS

TEST PLOT OF BANDWIDTH







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9. FCC LINE CONDUCTED EMISSION TEST

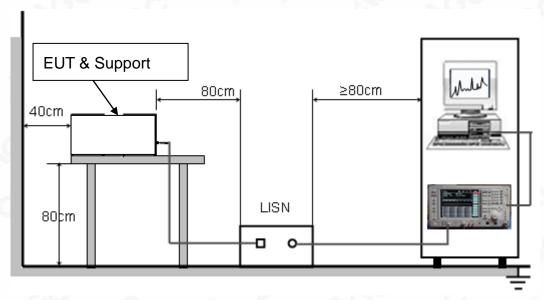
9.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	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.
- 2. 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.



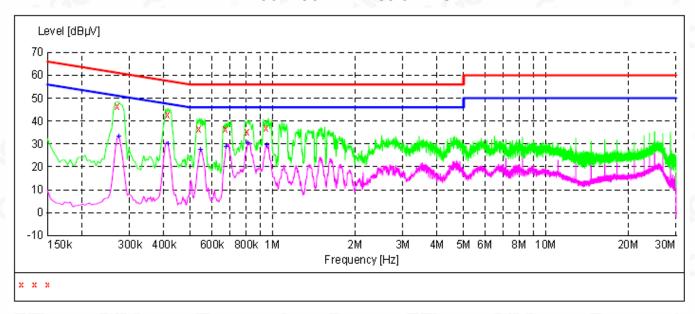
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9.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.270000	46.60	11.3	61	14.5	QP	L1
0.414000	42.80	11.3	58	14.8	QP	L1
0.538000	36.40	11.3	56	19.6	QP	L1
0.674000	36.40	11.3	56	19.6	QP	L1
0.806000	35.10	11.3	56	20.9	QP	L1
0.950000	36.80	11.3	56	19.2	QP	L1

MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.274000	33.30	11.3	51	17.7	AV	L1
0.414000	29.90	11.3	48	17.7	AV	L1
0.542000	27.30	11.3	46	18.7	AV	L1
0.674000	28.70	11.3	46	17.3	AV	L1
0.810000	30.30	11.3	46	15.7	AV	L1
0.950000	29.40	11.3	46	16.6	AV	L1

RESULT: PASS



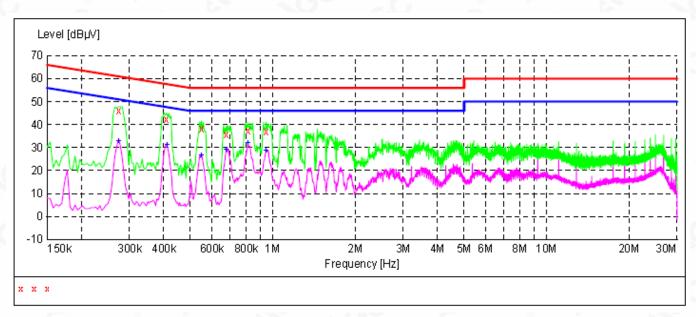
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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.274000	46.20	11.3	61	14.8	QP	N
0.410000	42.30	11.3	58	15.3	QP	N
0.550000	38.00	11.3	56	18.0	QP	N
0.678000	35.60	11.3	56	20.4	QP	N
0.814000	37.30	11.3	56	18.7	QP	N
0.946000	36.80	11.3	56	19.2	QP	N

MEASUREMENT RESULT

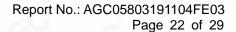
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.274000	32.70	11.3	51	18.3	AV	N
0.410000	31.30	11.3	48	16.3	AV	N
0.550000	26.50	11.3	46	19.5	AV	N
0.678000	28.90	11.3	46	17.1	AV	N
0.814000	31.80	11.3	46	14.2	AV	N
0.946000	28.80	11.3	46	17.2	AV	N

RESULT: PASS



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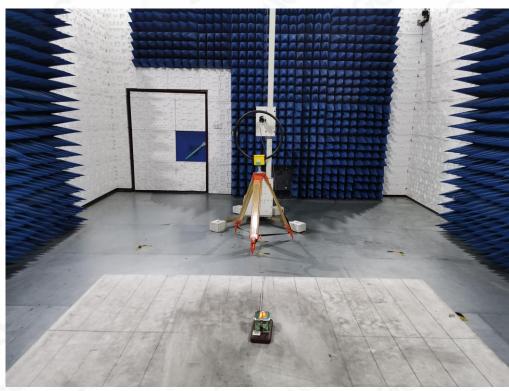
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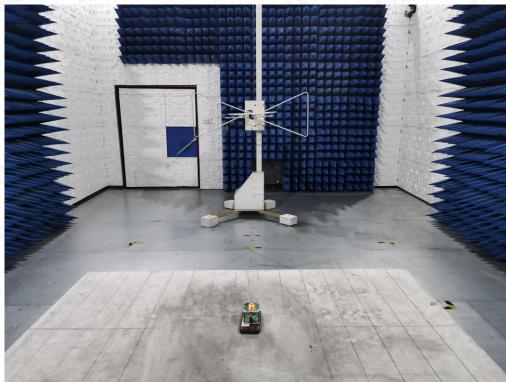




APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ

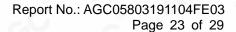






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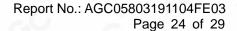
FCC LINE CONDUCTED EMISSION TEST SETUP





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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



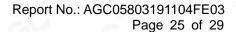
BOTTOM VIEW OF EUT





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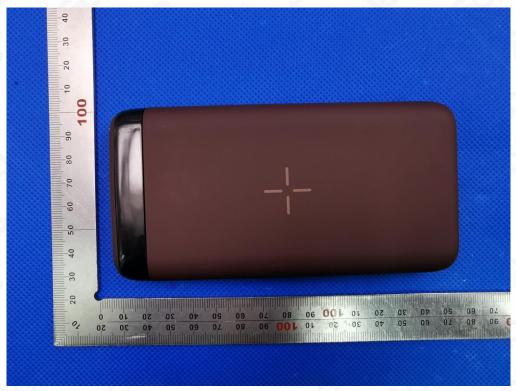




FRONT VIEW OF EUT



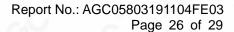
BACK VIEW OF EUT





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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

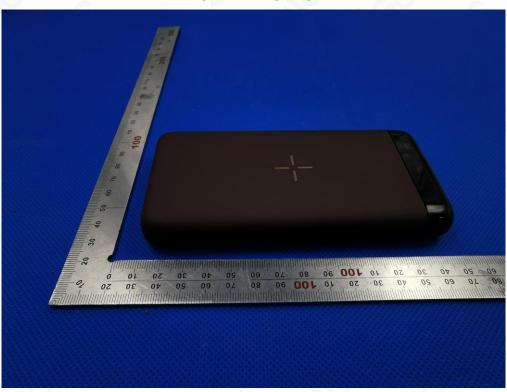




LEFT VIEW OF EUT



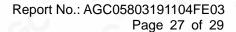
RIGHT VIEW OF EUT





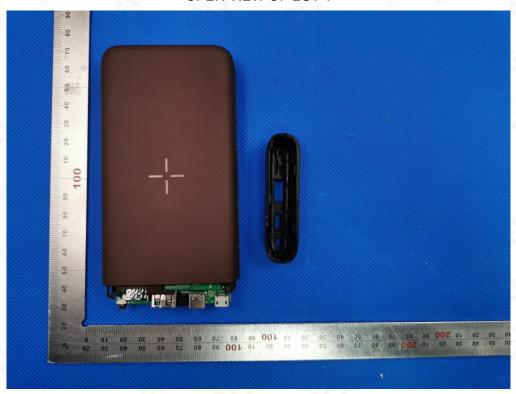
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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

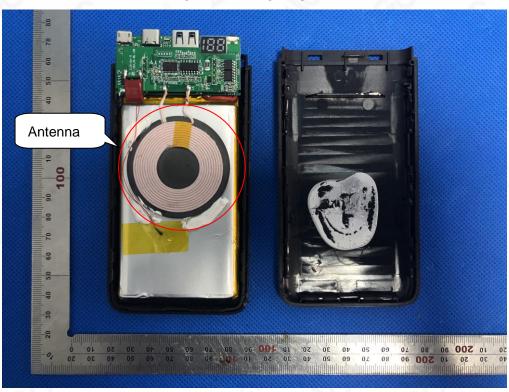




OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2

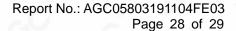




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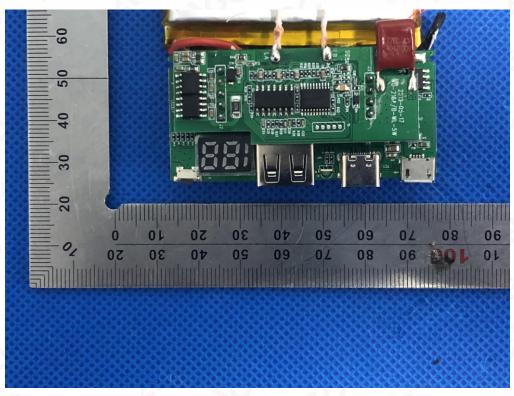
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail:agc@agc-cert.com Service Hotline:400 089 2118

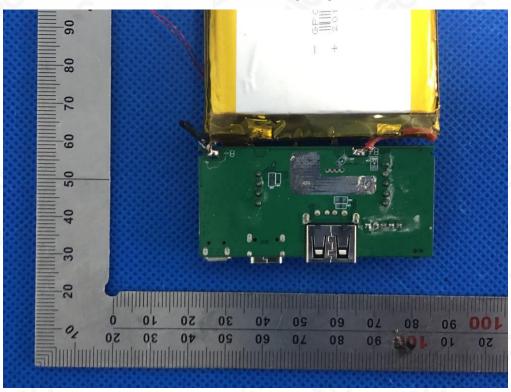




INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT



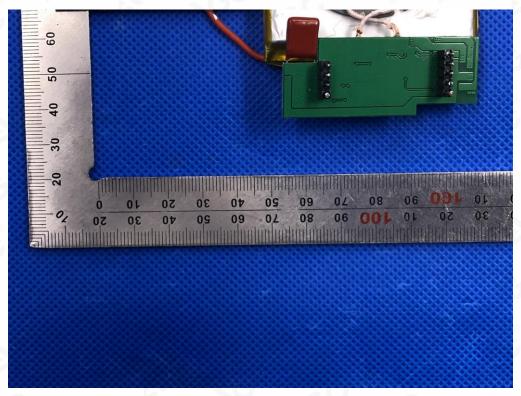


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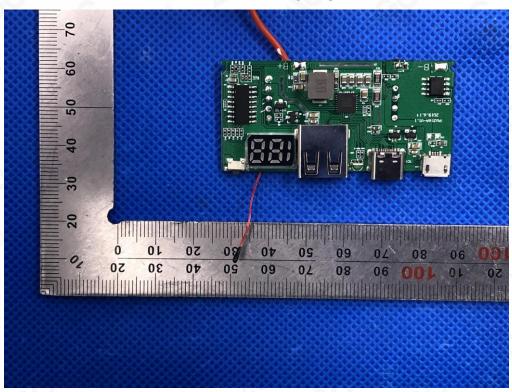
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INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT



----END OF REPORT----



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