

TEST REPORT




Applicant:	Shenzhen Xindejia Electronic Technology Co. Ltd.	
Address:	B area 8F B Building Zhongyu green High - tech Industrial park, Wenge Rd, Heshuikou community, Matian subdistrict, Guangming new district, 518126 Shenzhen City, PEOPLE'S REPUBLIC OF China	
Manufacturer:	Shenzhen Xindejia Electronic Technology Co. Ltd.	
Address:	B area 8F B Building Zhongyu green High - tech Industrial park, Wenge Rd, Heshuikou community, Matian subdistrict, Guangming new district, 518126 Shenzhen City, PEOPLE'S REPUBLIC OF China	
Factory:	Shenzhen Xindejia Electronic Technology Co. Ltd.	
Address:	B area 8F B Building Zhongyu green High - tech Industrial park, Wenge Rd, Heshuikou community, Matian subdistrict, Guangming new district, 518126 Shenzhen City, PEOPLE'S REPUBLIC OF China	
E.U.T.:	Class 2 Power Supply, AC ADAPTER, Switching Power Supply, Charger, LED Driver	
Model Number:	XDJ241a-xxxyyy ("a", "xxx" and "yyy" are variables, details see model list)	
Trade Name:	XINDEJIA ,  , 鑫德嘉 ,  , XINDEJIA , Shenzhen Xindejia Electronic Technology Co. Ltd	
Serial No.:	--	
Date of Receipt:	Oct 18, 2018	Date of Test: Oct 19-28, 2018
Test Specification:	FCC Part 15 Subpart B,2016 ANSI C63.4:2014	
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.	
Prepared by:	Approved by:	
		
Cindy Zeng/ Assistant	Frank Shen/ Engineer	Chunhui Yang/ Manager
Other Aspects: None		
Abbreviations: N/A=not applicable E.U.T.=equipment under tested		
This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Dongguan Lepont Service Co., Ltd.		

TABLE OF CONTENTS

1. GENERAL PRODUCT INFORMATION.....	4
1.1 PRODUCT FUNCTION.....	4
1.2 DIFFERENCE BETWEEN MODEL NUMBERS.....	4
1.3 TEST DESCRIPTION OF DEVICE (EUT).....	4
1.4 INDEPENDENT OPERATION MODES.....	5
2. TEST STANDARDS AND SITES.....	6
2.1 DESCRIPTION OF STANDARDS AND RESULTS.....	6
2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	6
2.3 TEST FACILITY.....	7
3. TEST SET-UP AND OPERATION MODES.....	8
3.1 PRINCIPLE OF CONFIGURATION SELECTION.....	8
3.2 BLOCK DIAGRAM OF TEST SET-UP.....	8
3.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT.....	8
3.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	8
4. EMISSION TEST RESULTS.....	9
4.1 CONDUCTED EMISSION AT THE MAINS TERMINALS TEST.....	9
4.2 RADIATED EMISSION TEST.....	12
5. TEST PHOTOGRAPHS.....	15
6. PHOTOGRAPHS OF THE EUT.....	16

1. GENERAL PRODUCT INFORMATION

1.1 PRODUCT FUNCTION

Refer to Technical Construction Form and User Manual.

1.2 DIFFERENCE BETWEEN MODEL NUMBERS

Model No.	Input	Output			Transformer
		voltage (Vdc)	current (A)	power (Max. W)	
XDJ241a-xxxxyy	100-240V~, 50/60Hz, 0.5A	5.0-10.0	0.01-4.00	24.00	XDJ241-05T
		10.1-18.0	0.01-2.38	24.00	XDJ241-12T
		18.1-36.0	0.01-1.33	24.00	XDJ241-24T

“a” can be U or R or D or DU, U represents fixed plug used, R represents detached plug used, D represents AC inlet used, DU represents AC supply power cord used.

“xxx” can be 050-360 represents output voltage 5.0-36.0Vdc, in a step of 0.1V.

“yyy” can be 001-400 represents output current 0.01-4.00A, in a step of 0.01A.

Notes: According to the above information, full tests were performed on model:

XDJ241U-060400, XDJ241U-360067

1.3 TEST DESCRIPTION OF DEVICE (EUT)

Test Model	:	XDJ241U-060400, XDJ241U-360067
Rated Input	:	100-240V~, 50/60Hz, 0.5A
Rated Output	:	6V==4A, 36V==0.67A
DC Line	:	Unshielded, Undetachable, 1.5m
Protection class	:	Class II
Operation Frequency	:	Below 108MHz (Declaration by applicant)

1.4 INDEPENDENT OPERATION MODES

Test Voltage: AC 120V/60Hz

Test Mode :A Full Load

Test Mode :B Half Load

Test Mode :C Empty Load

Remark: The test data of the worst case condition(s) was reported on the following page.

2. TEST STANDARDS AND SITES

2.1 DESCRIPTION OF STANDARDS AND RESULTS

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Power Line Conducted Emission Test	FCC Part 15 Subpart B, 2016	Class B	PASS
Radiated Emission Test	FCC Part 15 Subpart B, 2016	Class B	PASS

2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
For conducted emission at the mains terminals test					
EMI Test Receiver	Rohde & Schwarz	ESHS30	8290501003	Mar.21,2018	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	100873	Mar.21,2018	1 Year
For radiated emission test					
EMI Test Receiver	Rohde & Schwarz	ESR	101849	Mar.21,2018	1 Year
Bilog Antenna	Schwarzbeck	VULB 9163	743	Mar.21,2018	1 Year
Signal Amplifier	HP	8447D	1726A01222	Mar.21,2018	1 Year
Testing software					
Testing software	EZ	EZ-EMC	N/A	N/A	N/A
N/A is an abbreviation for Not Applicable.					

2.3 TEST FACILITY

EMC Lab. : Listed by CNAS, June 26, 2017

The Laboratory has been assessed and proved to be in compliance with CNAS/CL01

The Certificate Registration Number is L10100.

Listed by FCC, June 03, 2015, The Certificate The Certificate Registration Number is 374391.

Listed by Industry Canada, November 02, 2015,

The Certificate Registration Number is 20133.

Listed by TUV Rheinland ,January 13, 2017

The Certificate Registration Number is UA 50369502 001

Listed by SGS-CSTC Mar 07, 2017

The Certificate Registration Number is SZ WMPL-2016-001

Listed by UL September 18, 2017

The Certificate Registration Number is S22C-3170926084800

Test Location : Dongguan Lepont Testing Service Co., Ltd.

Address : No.117 Ting Shan Industrial Zone, Houjie Town, Dongguan,
523943 China

3. TEST SET-UP AND OPERATION MODES

3.1 PRINCIPLE OF CONFIGURATION SELECTION

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

Immunity: The equipment under test (EUT) was configured to the representative operating mode and conditions.

3.2 BLOCK DIAGRAM OF TEST SET-UP

System Diagram of Connections Between EUT and Simulators



3.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

None.

3.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE

None.

4. EMISSION TEST RESULTS

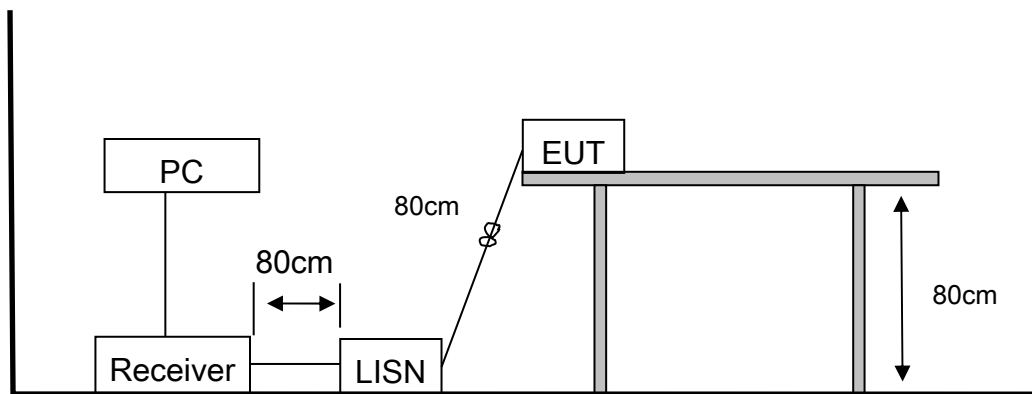
4.1 CONDUCTED EMISSION AT THE MAINS TERMINALS TEST

RESULT : **Pass**
Test procedure : ANSI C63.4:2014, Clause 7.2
Frequency range : 0.15~30MHz
Test Site : Shielded Room
Limits : FCC 47 CFR Part 15 Subpart B Section 15.107(a)
Date of test : Oct 21, 2018
Test Mode : A,B,C
Test Setup :

The frequency range from 150 kHz to 30 MHz was investigated.

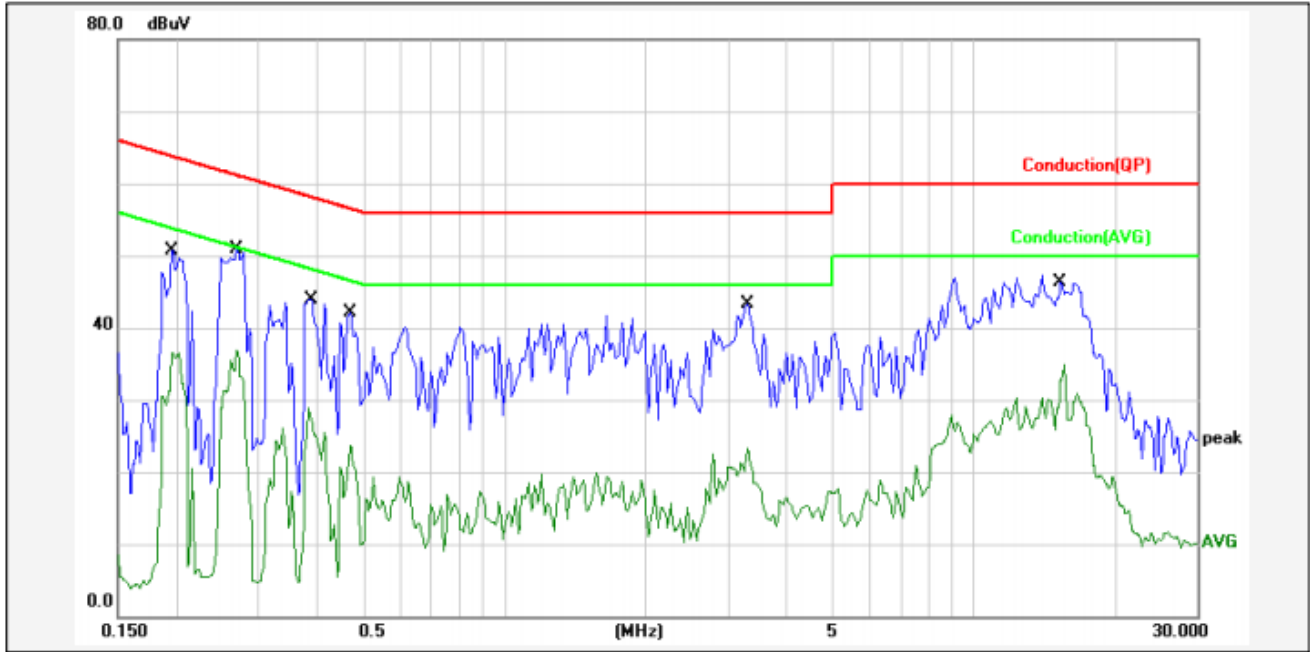
The bandwidth of the test receiver was set at 9 kHz.

The E.U.T. is put on the 0.8 m high table and connected to the AC mains through a Artificial Mains Network (AMN). This provided a 50ohm coupling impedance for the tested equipment.



Note: Test uncertainty: $\pm 2.96\text{dB}$ at a level of confidence of 95%. ($k=2, \sigma=95\%$)

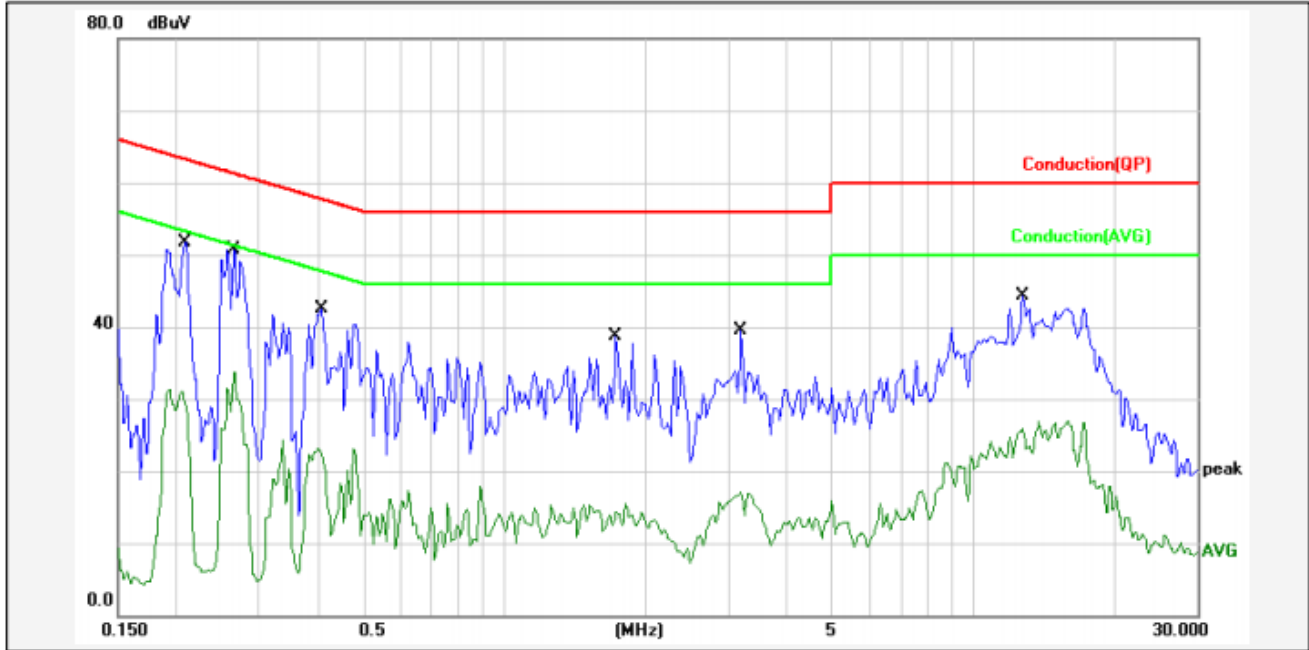
M/N : XDJ241U-060400
 Test Mode : A
 Test Phase : Power Line; Live
 Test Voltage : AC 120V/60Hz
 Temperature (°C): 24.5 Relative Humidity (%): 49.8 Atmospheric Pressure(kPa) : 101.5



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1964	9.60	38.10	47.70	63.76	-16.06	QP	P	
2	0.1964	9.60	26.95	36.55	53.76	-17.21	AVG	P	
3	0.2698	9.60	38.20	47.80	61.12	-13.32	QP	P	
4	0.2698	9.60	27.33	36.93	51.12	-14.19	AVG	P	
5	0.3887	9.61	31.29	40.90	58.09	-17.19	QP	P	
6	0.3887	9.61	19.31	28.92	48.09	-19.17	AVG	P	
7	0.4703	9.61	29.49	39.10	56.51	-17.41	QP	P	
8	0.4703	9.61	25.30	34.91	46.51	-11.60	AVG	P	
9	3.2997	9.70	30.60	40.30	56.00	-15.70	QP	P	
10	3.2997	9.70	14.08	23.78	46.00	-22.22	AVG	P	
11	15.3876	9.86	33.44	43.30	60.00	-16.70	QP	P	
12	15.3876	9.86	13.49	23.35	50.00	-26.65	AVG	P	

M/N : XDJ241U-060400
 Test Mode : A
 Test Phase : Power Line; Neutral
 Test Voltage : AC 120V/60Hz

Temperature (°C): 24.5 Relative Humidity (%): 49.8 Atmospheric Pressure(kPa) : 101.5



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2093	9.62	39.18	48.80	63.23	-14.43	QP	P	
2	0.2093	9.62	21.41	31.03	53.23	-22.20	AVG	P	
3	0.2655	9.62	38.08	47.70	61.26	-13.56	QP	P	
4	0.2655	9.62	24.17	33.79	51.26	-17.47	AVG	P	
5	0.4077	9.62	29.88	39.50	57.70	-18.20	QP	P	
6	0.4077	9.62	13.58	23.20	47.70	-24.50	AVG	P	
7	1.7287	9.66	25.94	35.60	56.00	-20.40	QP	P	
8	1.7287	9.66	5.74	15.40	46.00	-30.60	AVG	P	
9	3.1966	9.69	26.71	36.40	56.00	-19.60	QP	P	
10	3.1966	9.69	7.47	17.16	46.00	-28.84	AVG	P	
11	12.7188	9.90	31.40	41.30	60.00	-18.70	QP	P	
12	12.7188	9.90	16.92	26.82	50.00	-23.18	AVG	P	

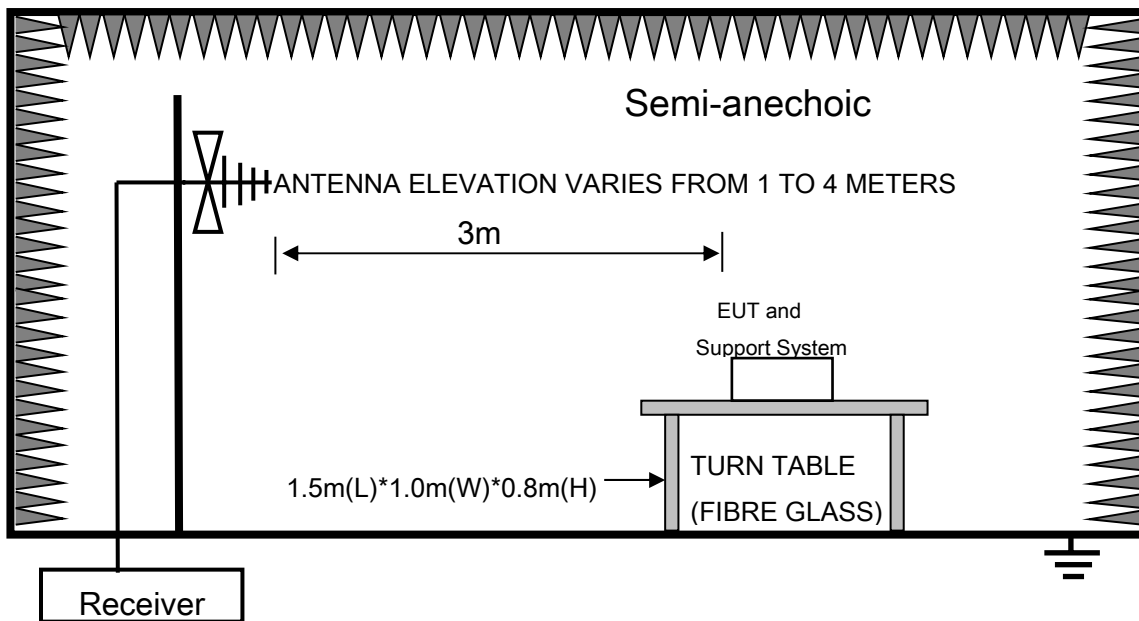
4.2 RADIATED EMISSION TEST

RESULT : **Pass**
 Test procedure : ANSI C63.4:2014, Clause 8.3
 Frequency range : 30~1000MHz
 Test Site : 966 Chamber
 Limits : FCC 47 CFR Part 15 Subpart B Section 15.109(a)
 Date of test : Oct 21, 2018
 Test Mode : A,B,C
Test Setup :

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarization.

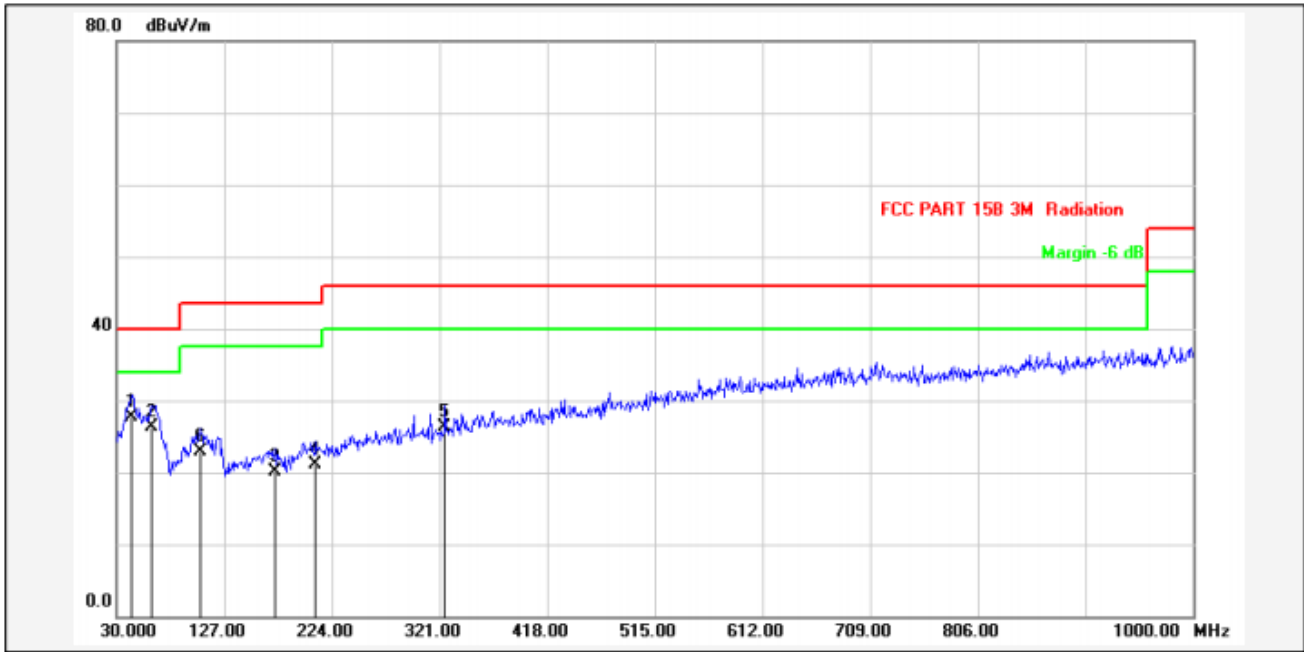
The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth setting on the test receiver was 120 kHz.



Note: Test uncertainty: $\pm 3.54\text{dB}$ at a level of confidence of 95%. ($k=2, \sigma=95\%$)

M/N : XDJ241U-060400
 Test Mode : A
 Test Phase : Vertical
 Test Voltage : AC 120V/60Hz
 Temperature (°C): 24.5 Relative Humidity (%): 49.8 Atmospheric Pressure(kPa) : 101.5



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	43.5800	15.94	11.76	27.70	40.00	-12.30	QP			P	
2	62.0100	14.42	11.98	26.40	40.00	-13.60	QP			P	
3	172.5900	11.59	8.61	20.20	43.50	-23.30	QP			P	
4	209.4500	13.87	7.33	21.20	43.50	-22.30	QP			P	
5	325.8500	16.94	9.36	26.30	46.00	-19.70	QP			P	
6	105.6600	14.17	8.83	23.00	43.50	-20.50	QP			P	

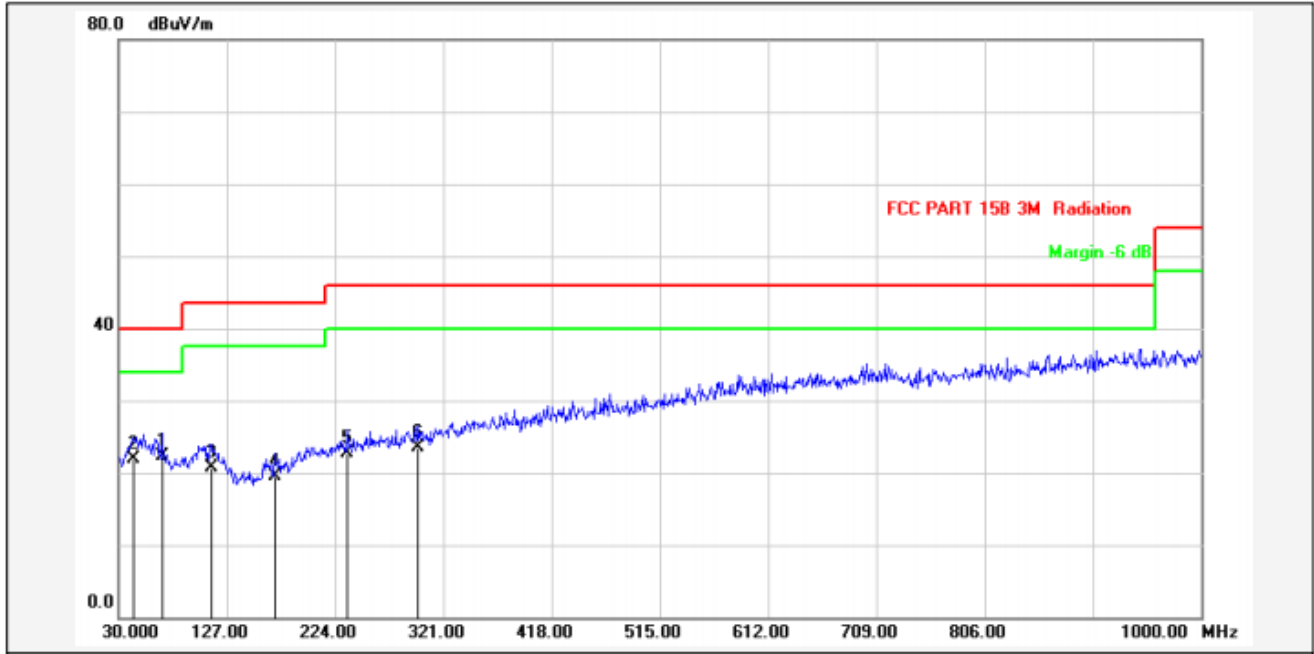
M/N : XDJ241U-060400

Test Mode : A

Test Phase : Horizontal

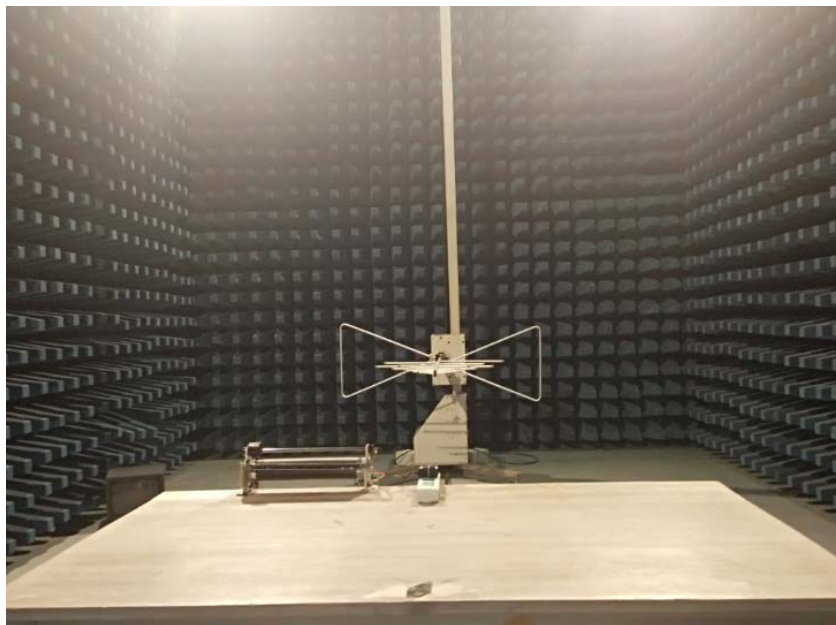
Test Voltage : AC 120V/60Hz

Temperature (°C): 24.5 Relative Humidity (%): 49.8 Atmospheric Pressure(kPa) : 101.5



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	68.8000	12.50	9.90	22.40	40.00	-17.60	QP			P	
2	43.5800	15.94	5.96	21.90	40.00	-18.10	QP			P	
3	113.4200	18.57	2.23	20.80	43.50	-22.70	QP			P	
4	169.6800	16.47	3.13	19.60	43.50	-23.90	QP			P	
5	234.6700	14.57	8.23	22.80	46.00	-23.20	QP			P	
6	298.6900	16.02	7.48	23.50	46.00	-22.50	QP			P	

5. TEST PHOTOGRAPHS



6. PHOTOGRAPHS OF THE EUT

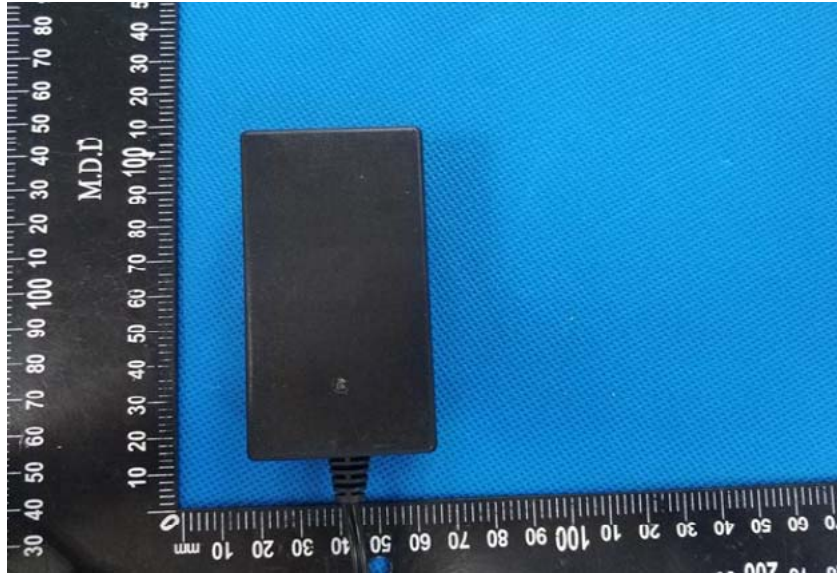


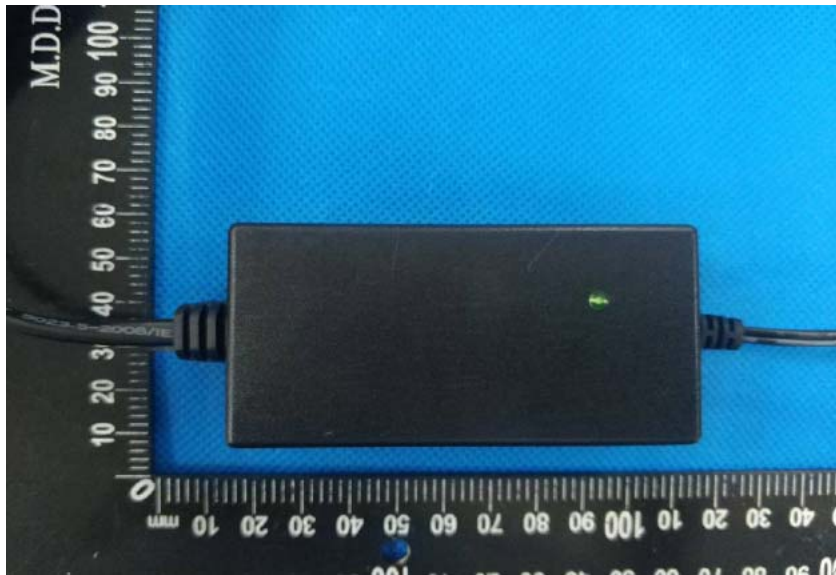


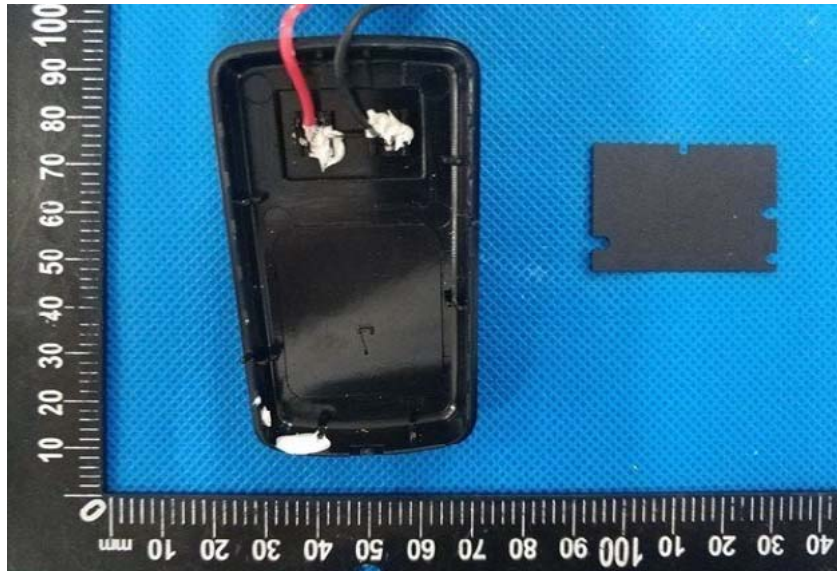






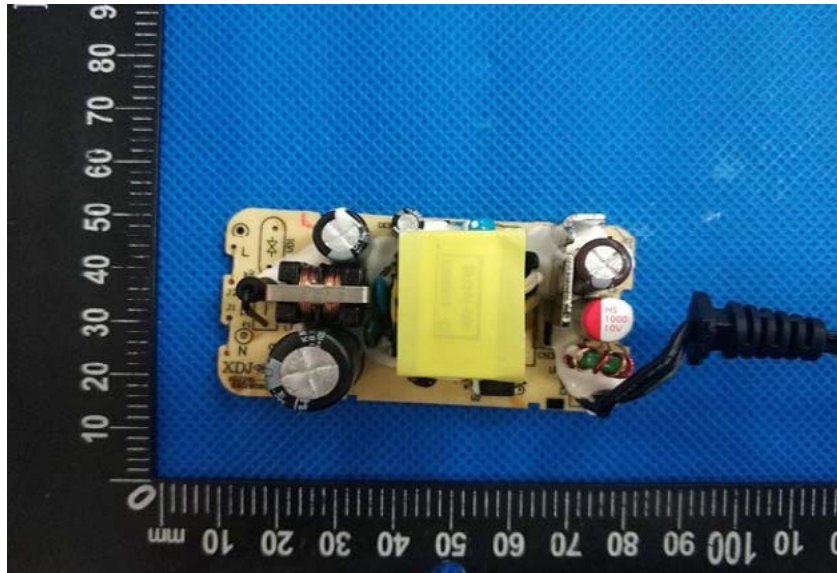
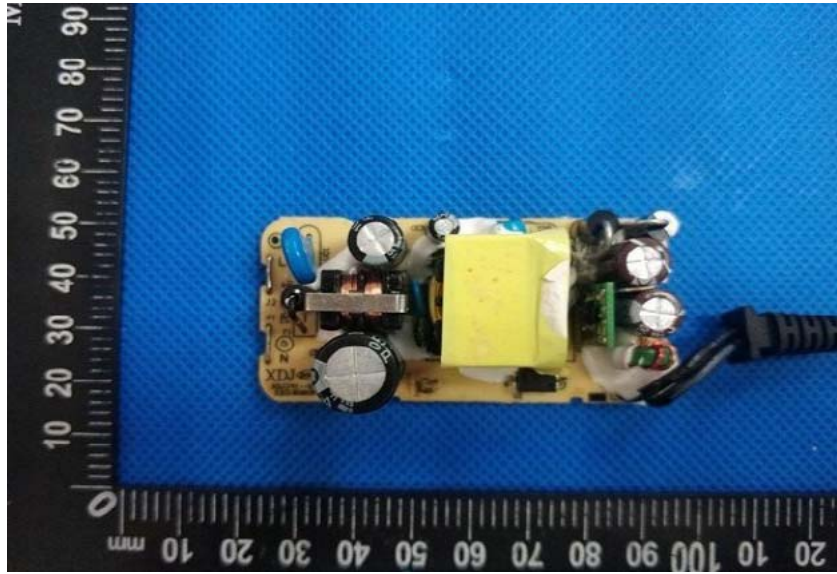


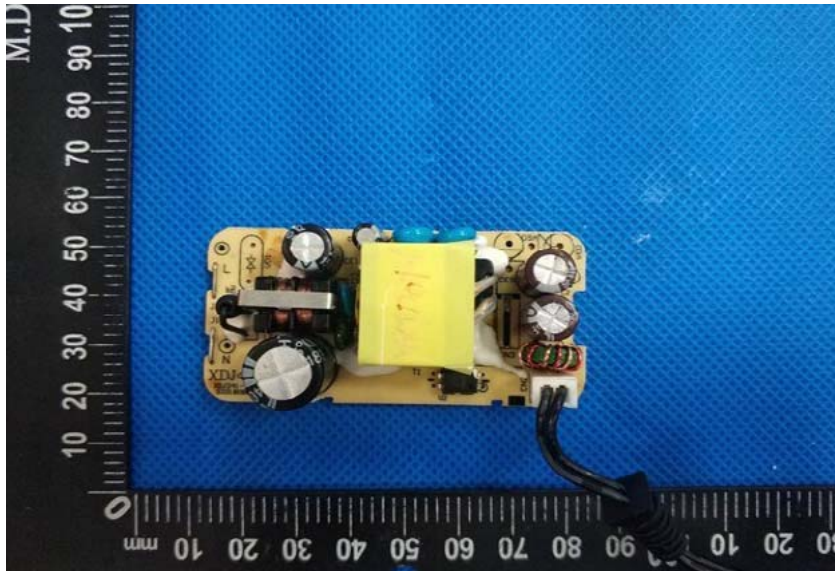
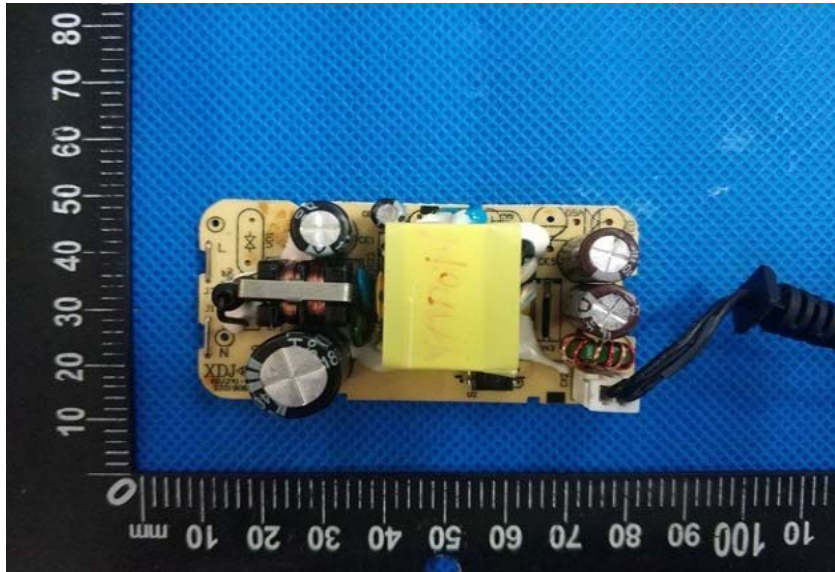


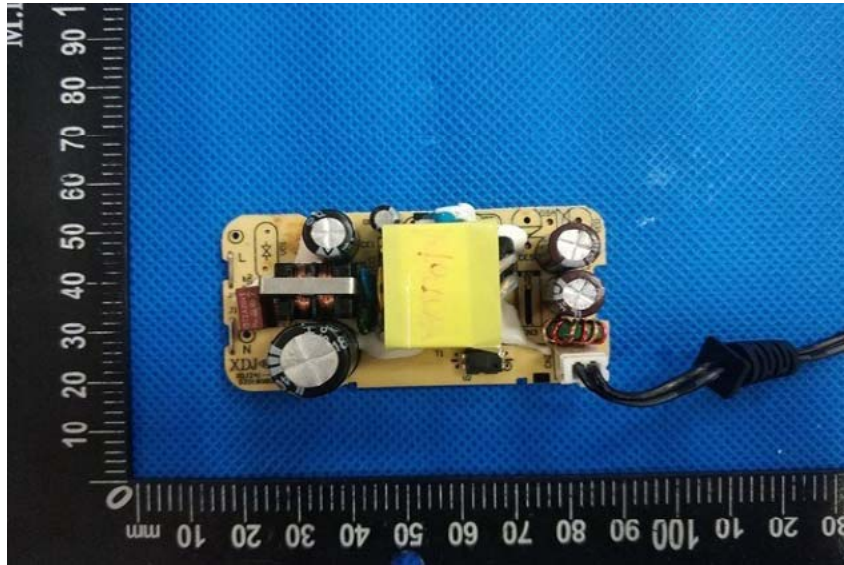


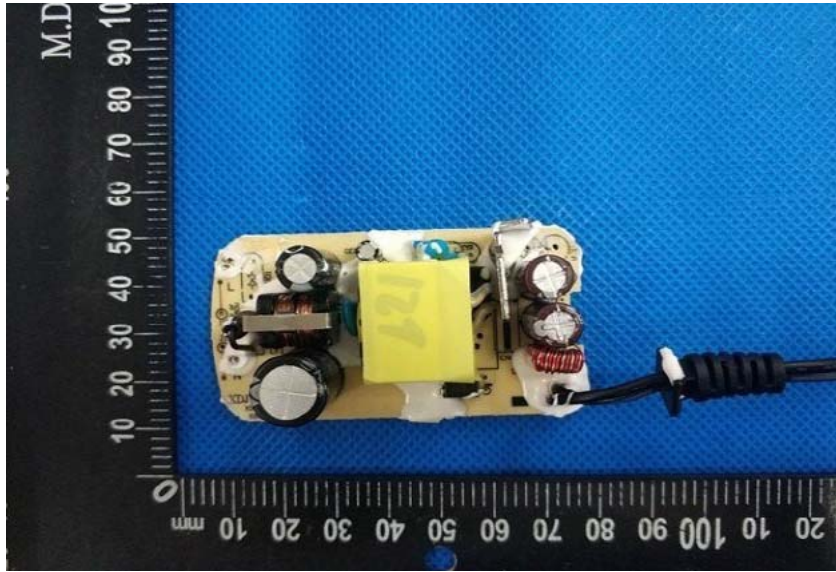


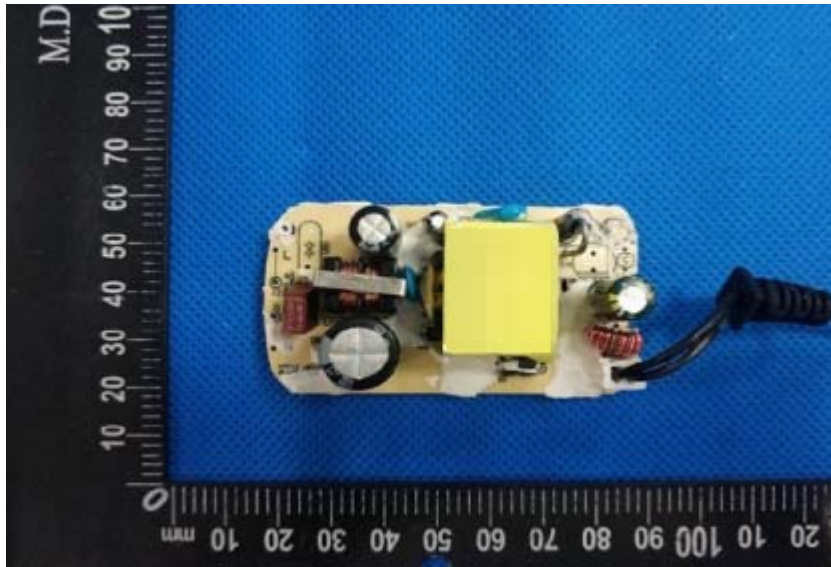


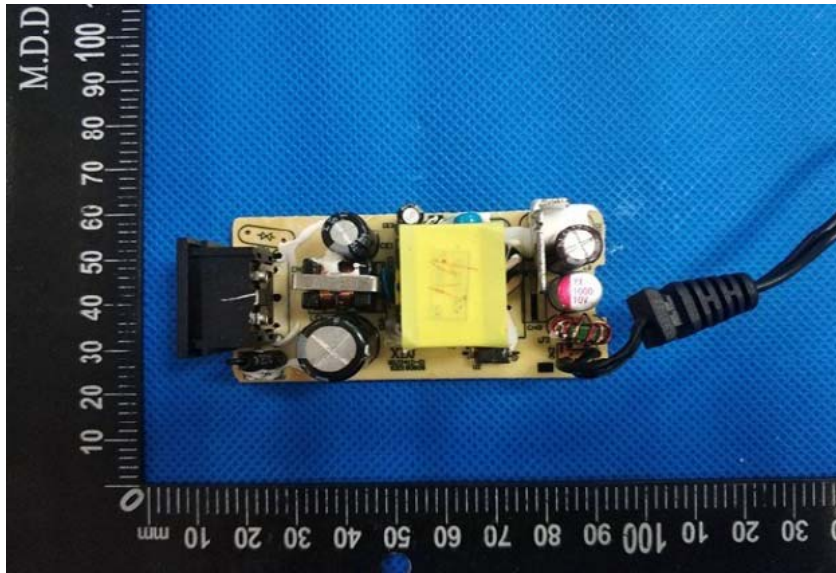
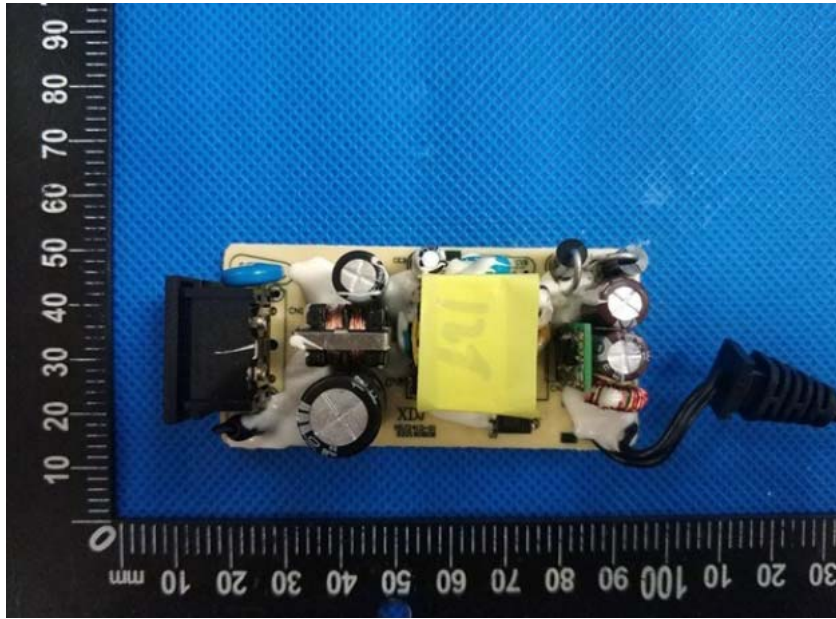


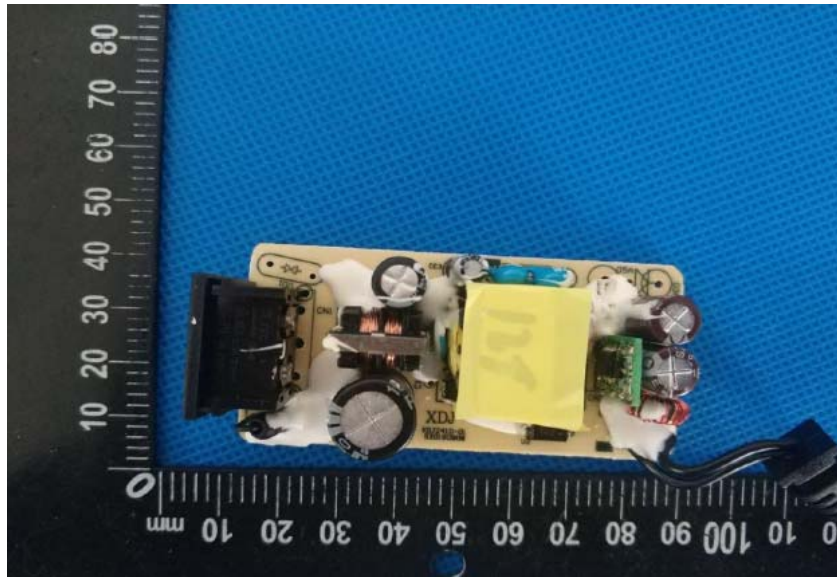
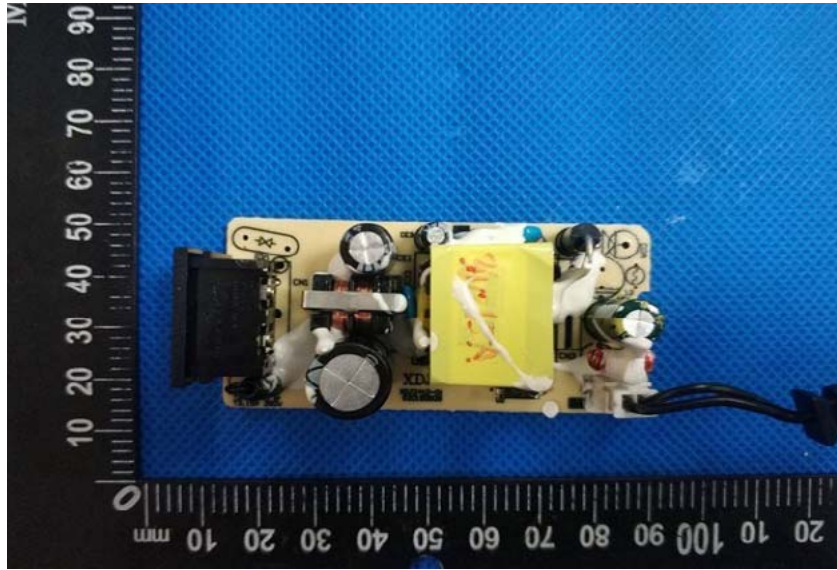


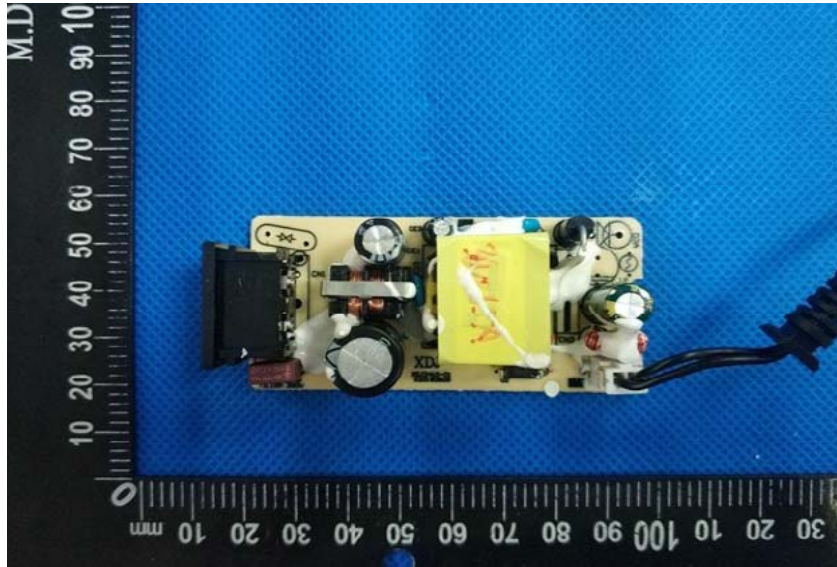


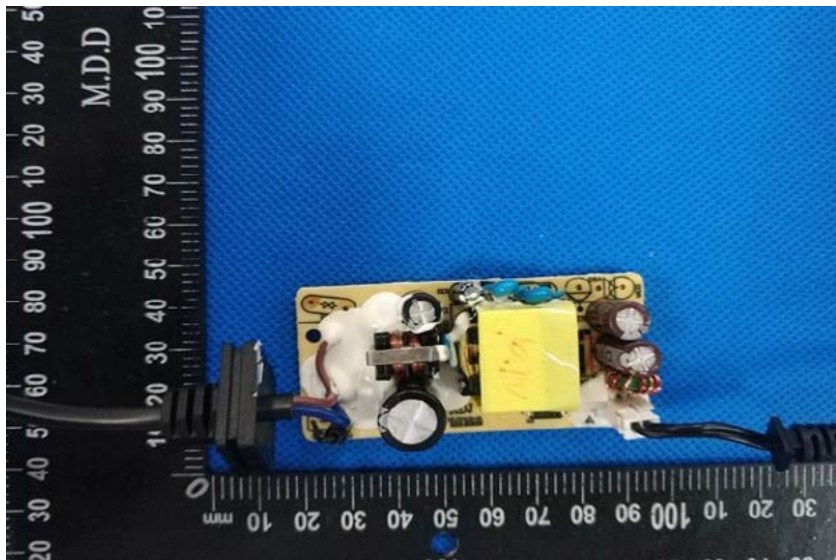
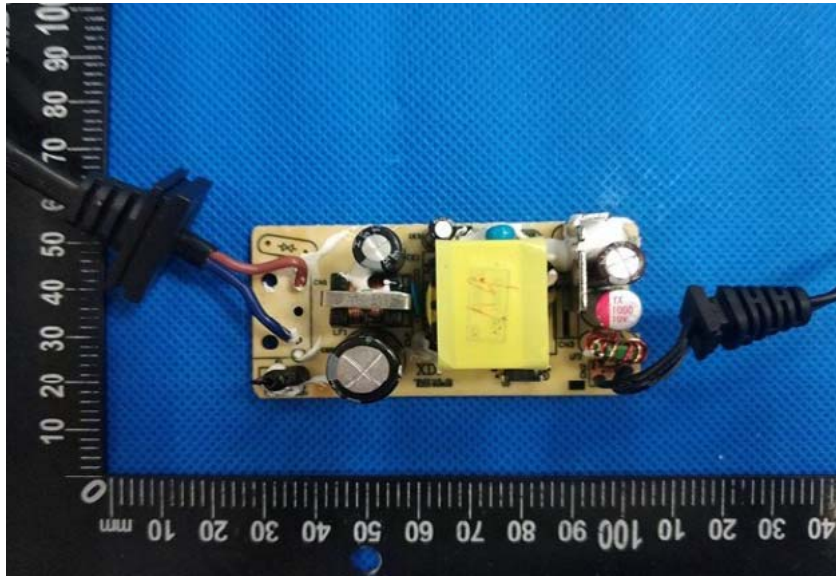


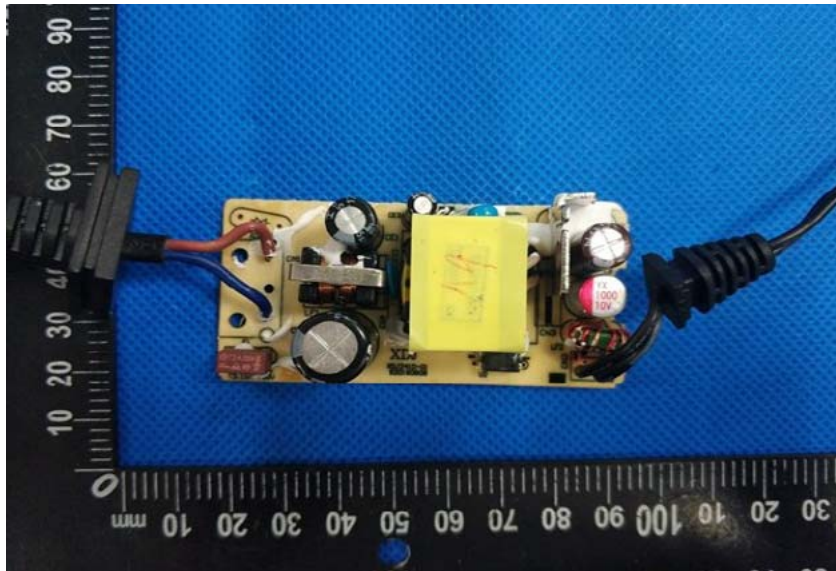
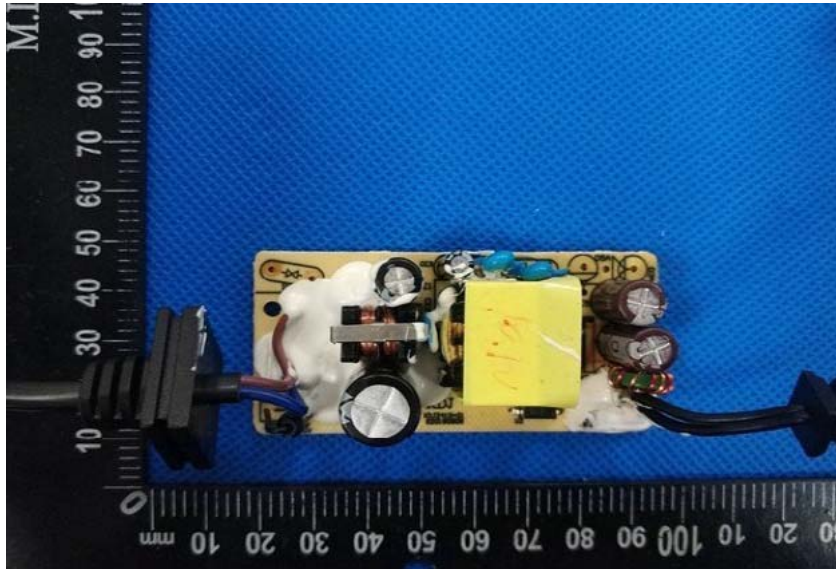


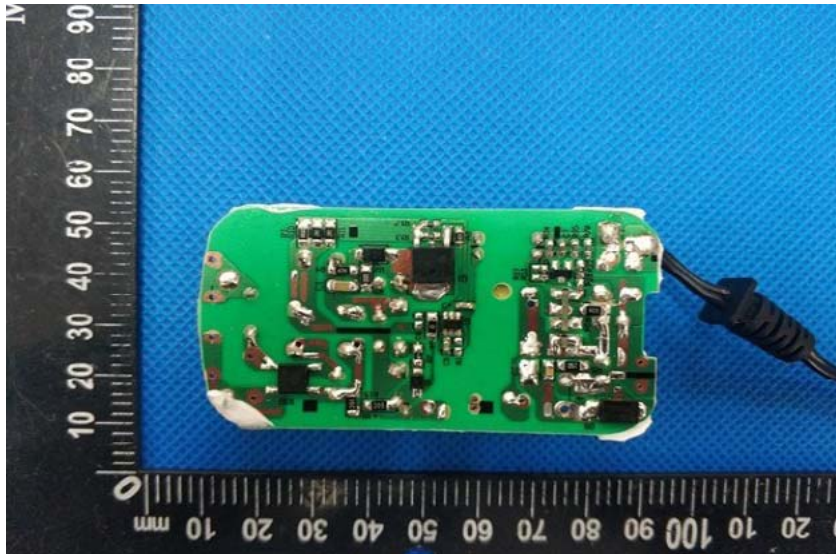
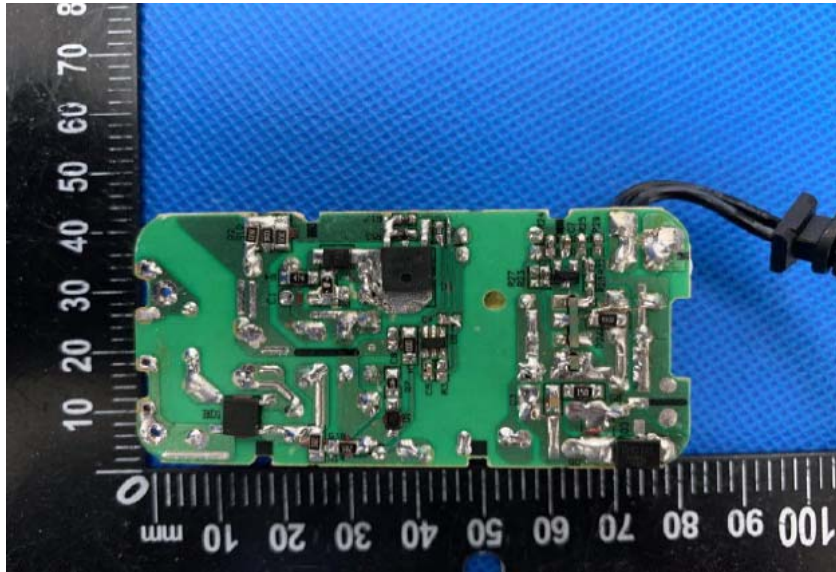


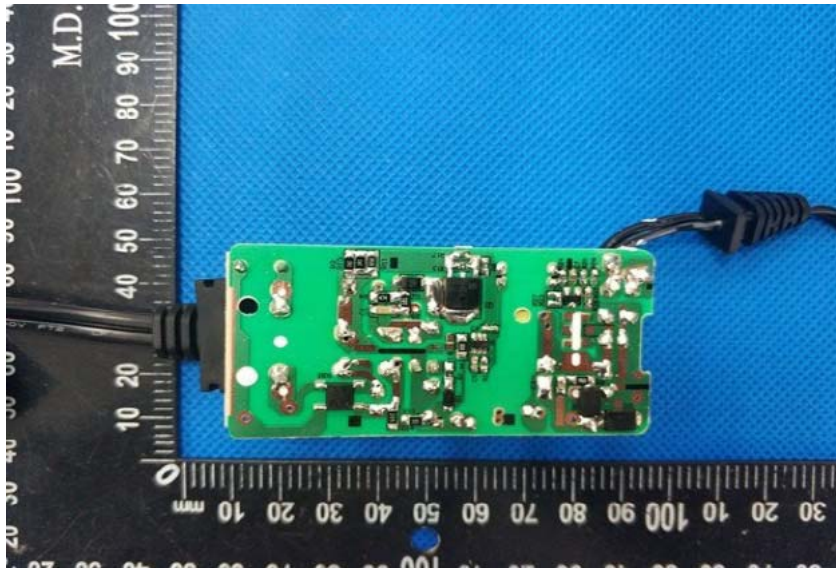
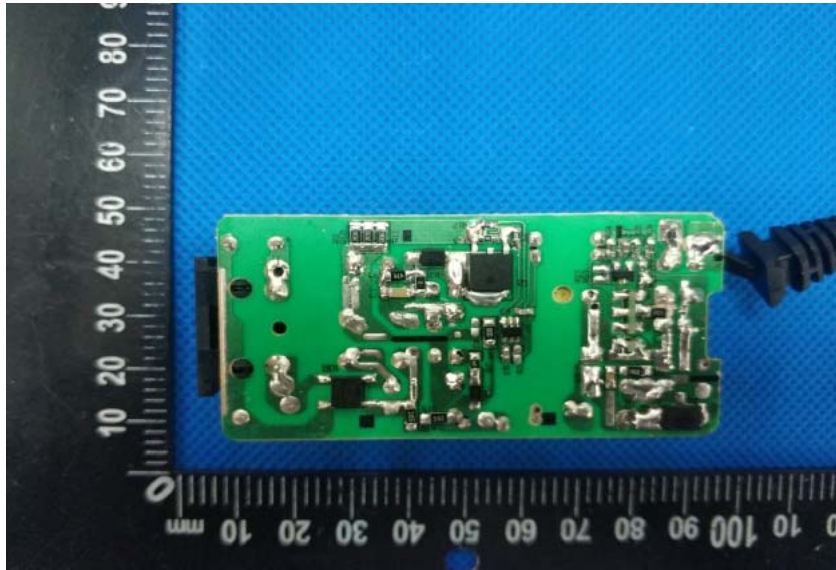












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