

TECHNICAL REPORT



Report No.: FCC2006336

File Reference No.: 2020-07-15

Applicant: LEADER PREMIUMS LTD

Product: UV STERILIZER BOX with WIRELESS CHARGER

Model No.: AT0005-A

Trademark: N/A

Test Standards: FCC CFR 47 Part 18

Test Result: It is herewith confirmed and found to comply with the requirements set up by FCC MP-5 & FCC Part 18, for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: July 15, 2020

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01



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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
 Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
 Telephone: +86 755 83448688
 Fax: +86 755 83442996
 Site on File with the Federal Communications Commission – United States
 Registration Number: 744189
 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: LEADER PREMIUMS LTD
 Address: 9/F., Hengfu Mansion B building, NO.858. Fuming Road, Ningbo, China
 Telephone: --
 Fax: --

1.3 Description of EUT

Product: UV STERILIZER BOX with WIRELESS CHARGER
 Manufacturer: LEADER PREMIUMS LTD
 Address: 9/F., Hengfu Mansion B building, NO.858. Fuming Road, Ningbo, China
 Brand Name: N/A
 Model Number: AT0005-A
 Additional Model Name: N/A
 Additional Trade Name: N/A
 Rating: Input: 5V, 2A ; Output: 5V, 1A
 Operation Frequency: See below table

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	0.1115	06	0.140	11	0.165	16	0.190
02	0.120	07	0.145	12	0.170	17	0.195
03	0.125	08	0.150	13	0.175	18	0.200
04	0.130	09	0.155	14	0.180	19	0.205
05	0.135	10	0.160	15	0.185		

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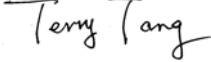
Teas channel	Frequency (MHz)
CH13	0.175 MHz

Modulation Type: MSK
Antenna Designation Inductive Loop Antenna with Gain 0dBi

1.4 Submitted Sample
2 Samples

1.5 Test Duration
2020-06-28 to 2020-07-15

1.6 Test Uncertainty
Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 9kHz-30MHz Uncertainty =4.3dB
Radiated Emissions below 30MHz-1GHz Uncertainty =4.7dB

1.7 Test Engineer 
The sample tested by _____

Print Name: Terry Tang



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Ultra Broadband ANT	R&S	HL562	100157	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2021-06-20
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2020-01-16	2020-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2020-06-23	2021-06-22
RF Cable	Zhengdi	7m	--	2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2020-01-06	2021-01-07

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC CFR47 Part 18, Paragraph 18.307	Conducted Emission Test	Pass	Compliant
FCC CFR47 Part 18, Paragraph 18.305	Radiated Emission Test	Pass	Compliant

3.2 Test Standards

FCC CFR47 Part 18 and FCC MP-5

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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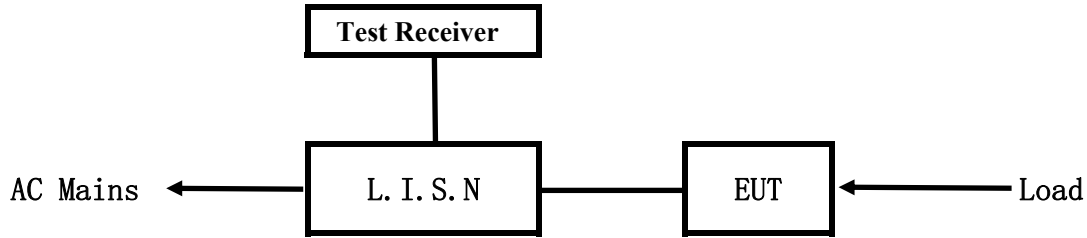
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

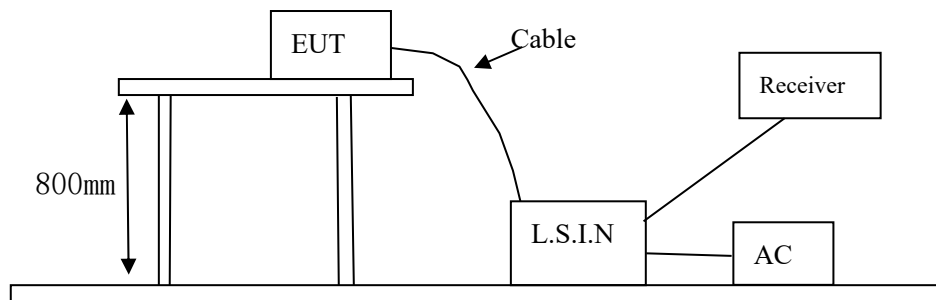


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to MP-5. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section FCC Part 18.307.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to MP-5. All interface ports were connected to the appropriate Peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
UV STERILIZER BOX with WIRELESS CHARGER	LEADER PREMIUMS LTD	AT0005-A	2APYY- AT0005-A

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	h.TV	S012BES0500200	Input:100-240V~, 50/60Hz,0.5A; Output: DC5V, 2A

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5.4 EUT Operating Condition

Operating condition is according to MP-5.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 18.307 (b)

Frequency (MHz)	Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes:
1. *Decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz. (The average detector is necessary when the Quasi-peak emission level beyond the average Limit.)



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

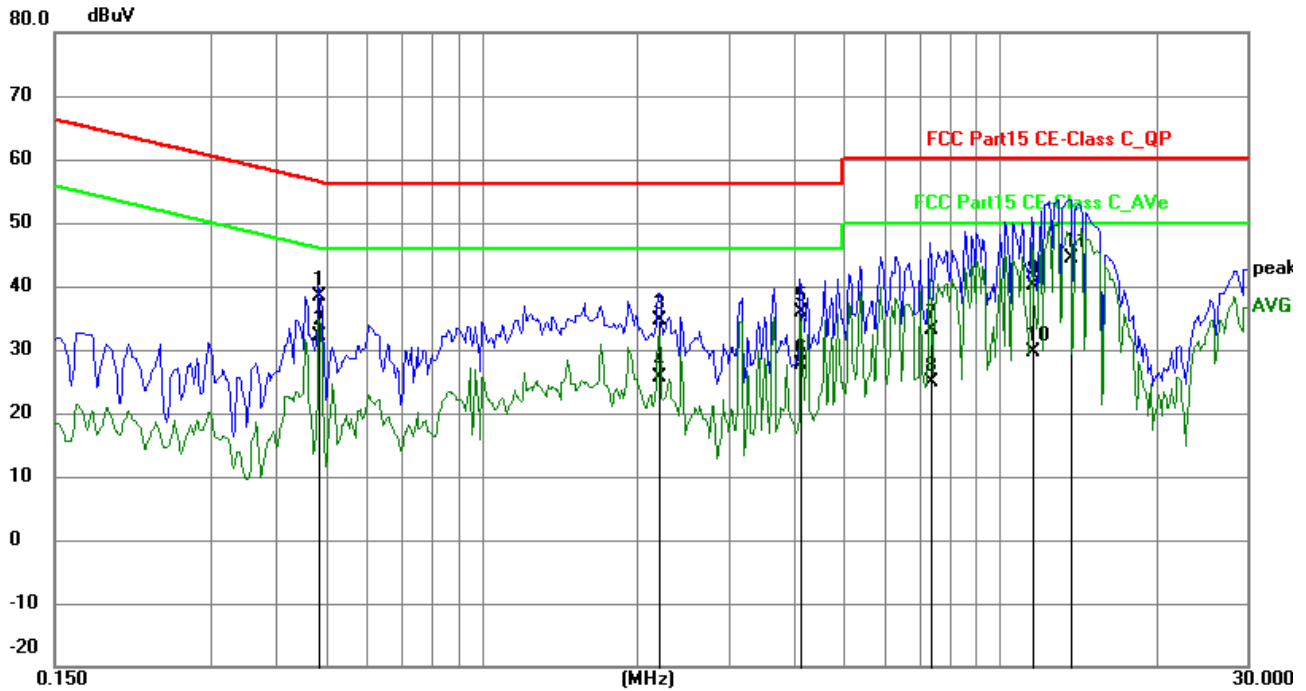
EUT Operating Environment

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition : Keep Transmitting and Charging

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4854	28.64	9.77	38.41	56.25	-17.84	QP	P
2	0.4854	22.26	9.77	32.03	46.25	-14.22	AVG	P
3	2.2014	24.90	9.81	34.71	56.00	-21.29	QP	P
4	2.2014	15.85	9.81	25.66	46.00	-20.34	AVG	P
5	4.1271	25.98	9.89	35.87	56.00	-20.13	QP	P
6	4.1271	17.82	9.89	27.71	46.00	-18.29	AVG	P
7	7.3368	23.22	10.03	33.25	60.00	-26.75	QP	P
8	7.3368	14.90	10.03	24.93	50.00	-25.07	AVG	P
9	11.5332	29.85	10.23	40.08	60.00	-19.92	QP	P
10	11.5332	19.45	10.23	29.68	50.00	-20.32	AVG	P
11	13.7211	34.10	10.32	44.42	60.00	-15.58	QP	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

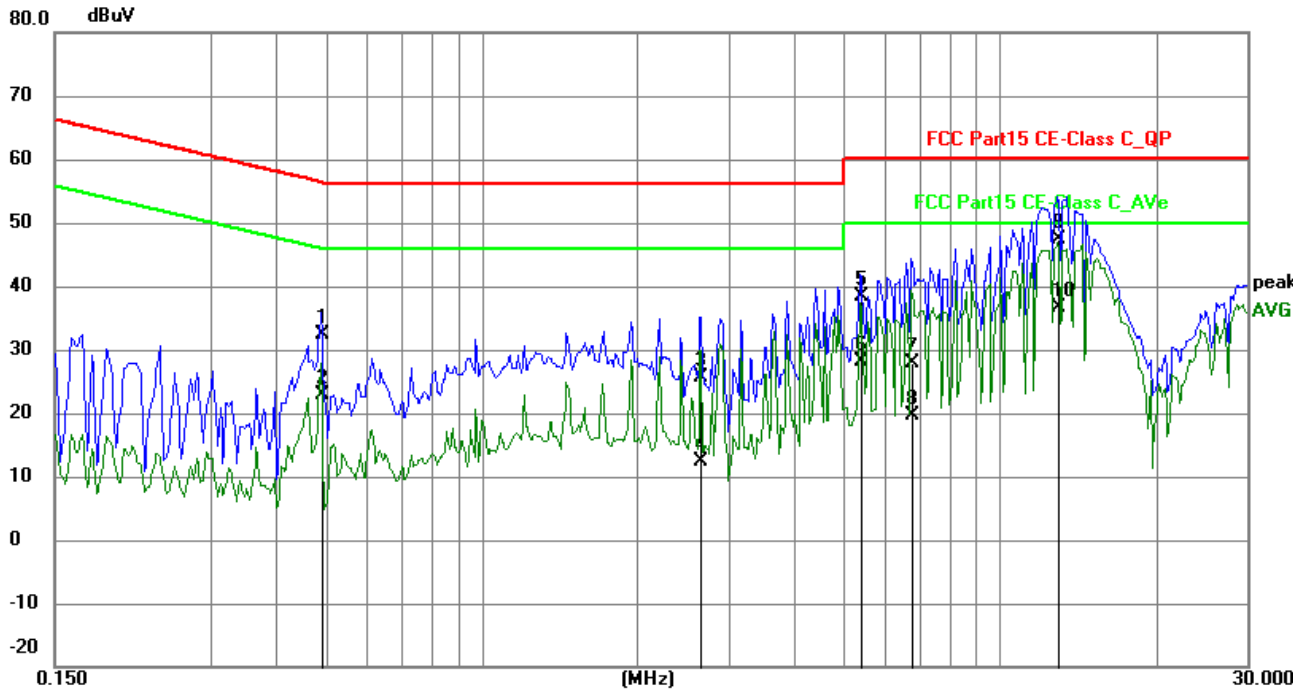
EUT Operating Environment

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 kPa

EUT set Condition : Keep Transmitting and Charging

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4893	22.54	9.77	32.31	56.18	-23.87	QP	P
2	0.4893	13.13	9.77	22.90	46.18	-23.28	AVG	P
3	2.6499	15.78	9.83	25.61	56.00	-30.39	QP	P
4	2.6499	2.58	9.83	12.41	46.00	-33.59	AVG	P
5	5.3868	28.47	9.95	38.42	60.00	-21.58	QP	P
6	5.3868	18.07	9.95	28.02	50.00	-21.98	AVG	P
7	6.7518	17.95	10.00	27.95	60.00	-32.05	QP	P
8	6.7518	9.55	10.00	19.55	50.00	-30.45	AVG	P
9	12.9801	37.09	10.29	47.38	60.00	-12.62	QP	P
10	12.9801	26.24	10.29	36.53	50.00	-13.47	AVG	P

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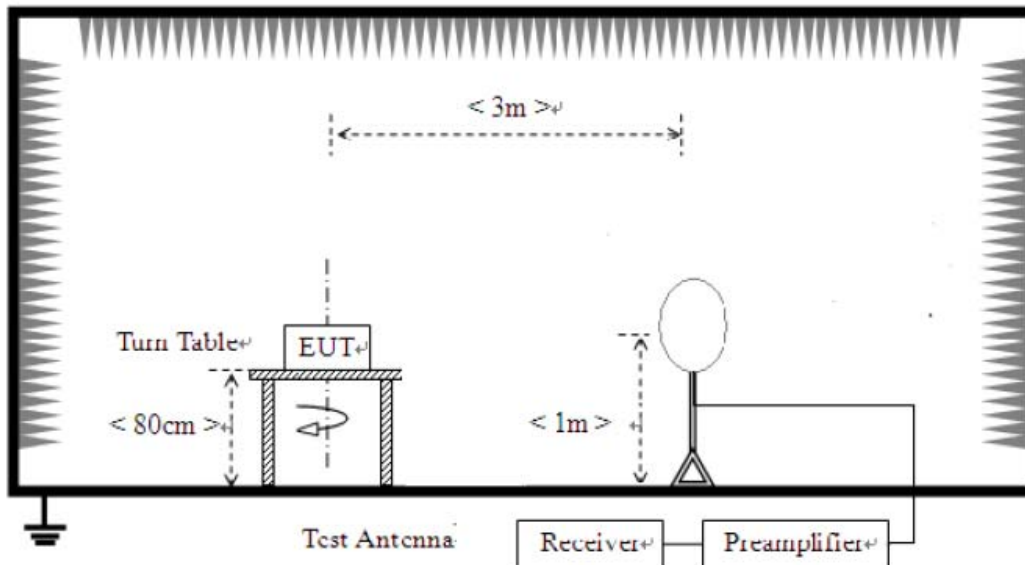
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to MP-5. The radiated test was performed at TIMEWAY EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to MP-5.
- (3) The frequency spectrum from 9 kHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with RBW=120 kHz/VBW=300 kHz; All readings from 9 kHz to 30 MHz are quasi-peak values with RBW=10 kHz/VBW=30 kHz. For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission test in these three bands are based on measurements employing an average detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

9kHz-30MHz



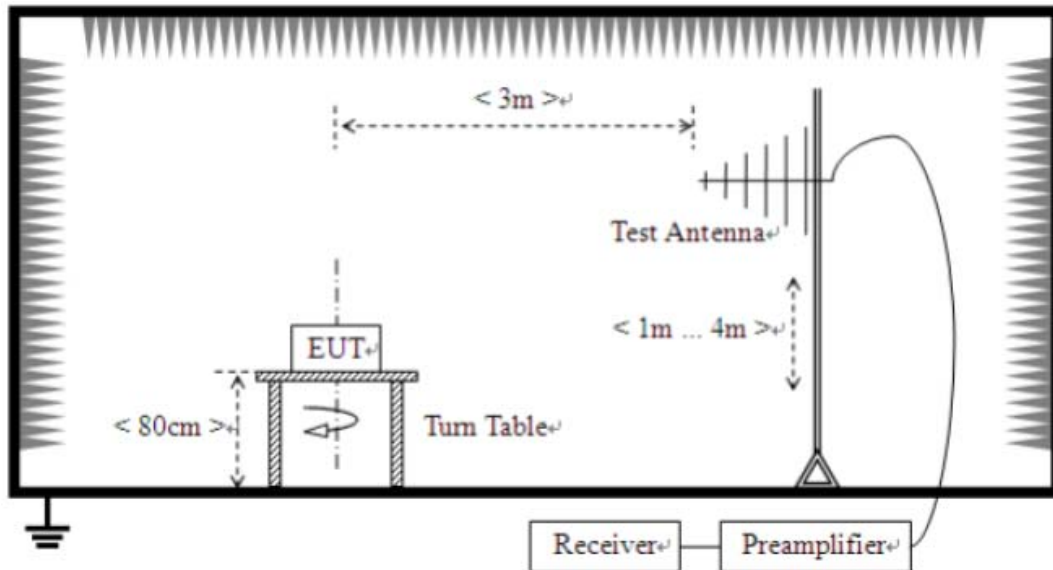
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30MHz-1000MHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

B. Frequencies in restricted band are compiled to limit on Paragraph 18.307.

Limits for frequency below 30MHz

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-30	3	103.5

Limits for frequency above 30MHz

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-1000	3	46.0

Note: 1. Emission level for frequency of 0.009~30MHz = $20\log(15) + 40\log(300/3) = 103.5$ dB μ V/m

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1. Emission level for frequency of 30-1000MHz = $20\log(10 \text{ or } 15 \text{ or } 220) + 20\log(30/3) = 40 \text{ or } 43.5 \text{ or } 46 \text{ dB } \mu\text{V/m}$
2. Calculated according FCC 18.305
3. In the Above Table, the tighter limit applies at the band edges.
4. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
5. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6.5 Test result

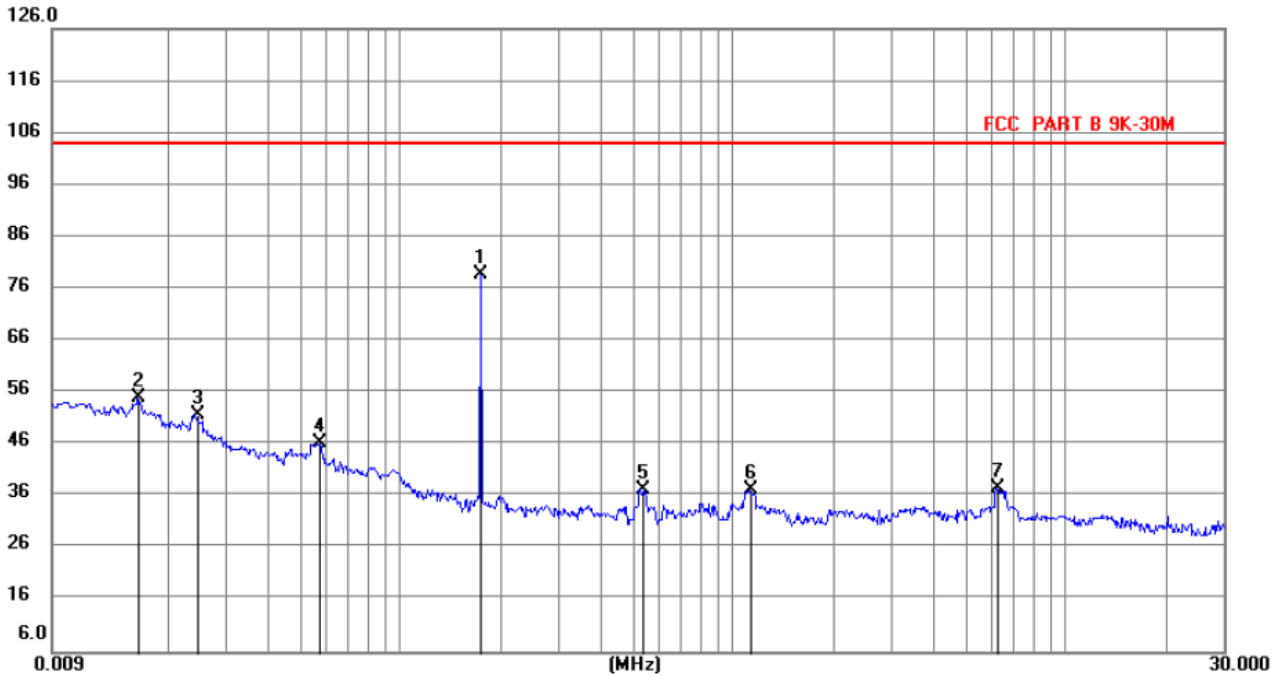
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Measurement data:

9 kHz~30 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.1748	68.90	9.77	78.67	103.50	-24.83	QP	P
2	0.0164	44.68	10.23	54.91	103.50	-48.59	peak	P
3	0.0245	41.50	10.28	51.78	103.50	-51.72	peak	P
4	0.0572	36.67	9.79	46.46	103.50	-57.04	peak	P
5	0.5333	27.55	9.77	37.32	103.50	-66.18	peak	P
6	1.1300	27.62	9.79	37.41	103.50	-66.09	peak	P
7	6.2500	27.66	9.98	37.64	103.50	-65.86	peak	P

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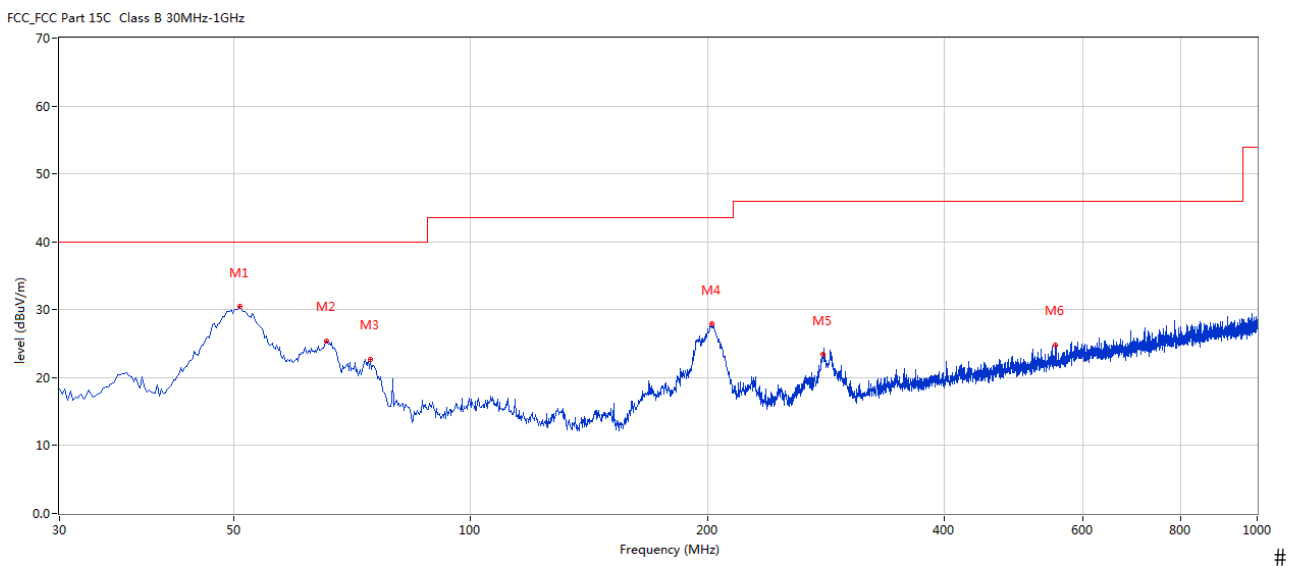


A. General Radiated Emission Data
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	50.850	30.49	-11.40	40.0	-9.51	Peak	26.00	200	H	Pass
2	65.639	25.45	-13.79	40.0	-14.55	Peak	32.00	200	H	Pass
3	74.609	22.73	-17.24	40.0	-17.27	Peak	0.00	200	H	Pass
4	202.617	27.87	-13.40	43.5	-15.63	Peak	0.00	200	H	Pass
5	280.197	23.42	-11.49	46.0	-22.58	Peak	0.00	200	H	Pass
6	554.154	24.83	-6.22	46.0	-21.17	Peak	71.00	100	H	Pass

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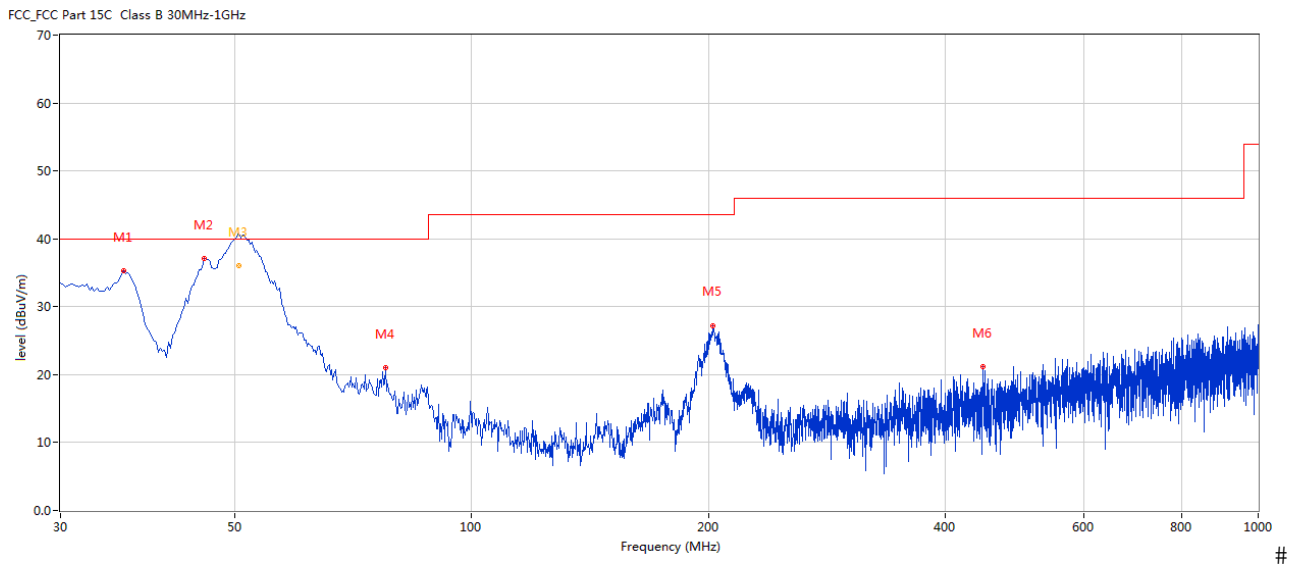
B. General Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	36.061	35.28	-13.68	40.0	-4.72	Peak	0.00	160	V	Pass
2	45.759	37.04	-11.40	40.0	-2.96	Peak	0.00	160	V	Pass
3	50.607	40.85	-11.39	40.0	0.85	Peak	0.00	160	V	N/A
3*	50.607	36.07	-11.39	40.0	-3.93	QP	0.00	160	V	Pass
4	77.761	21.01	-17.54	40.0	-18.99	Peak	0.00	160	V	Pass
5	202.617	27.26	-13.40	43.5	-16.24	Peak	0.00	160	V	Pass
6	447.238	21.21	-8.07	46.0	-24.79	Peak	0.00	160	V	Pass

#

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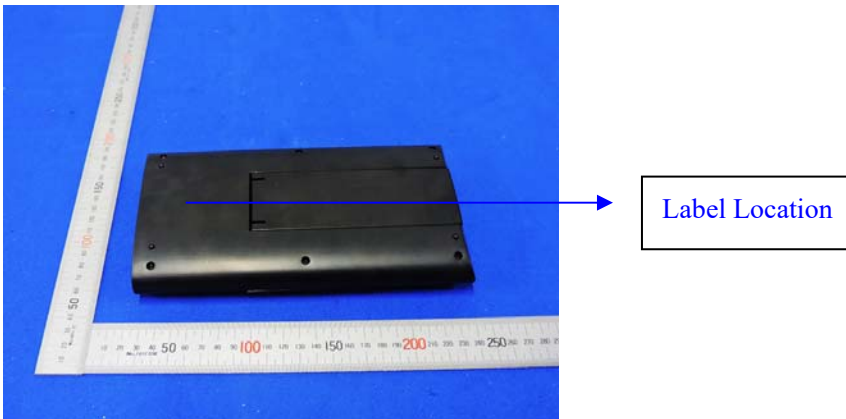


7.0 FCC ID Label

FCC ID: 2APYY-AT0005-A

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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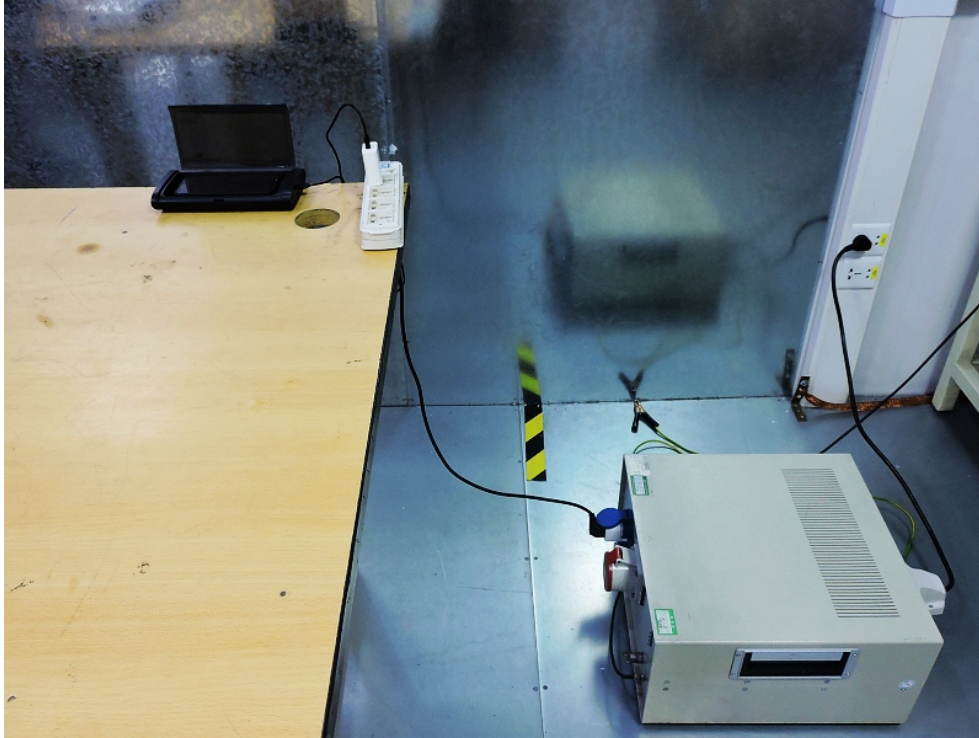
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8.0. Photo of testing

8.1 Conducted test View



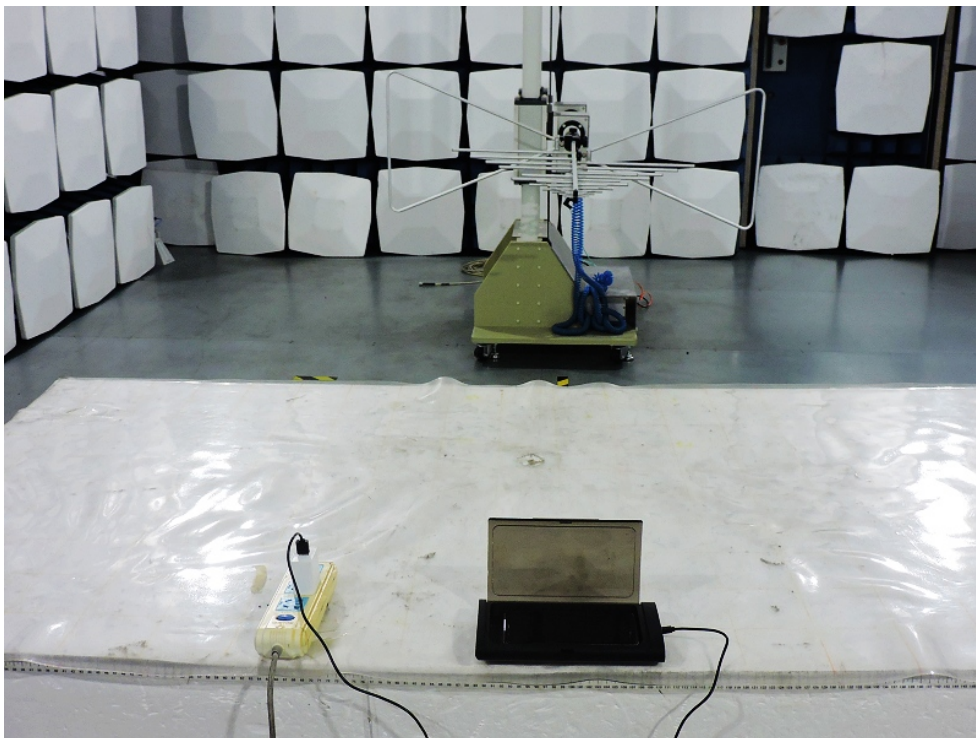
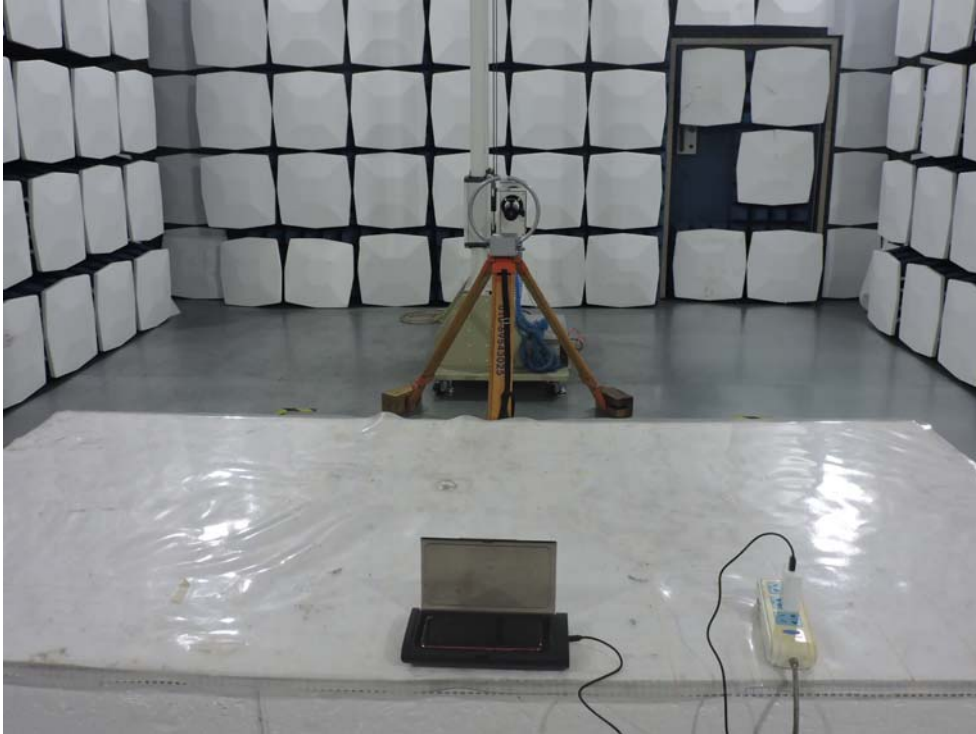
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8.2 Radiated emission test view



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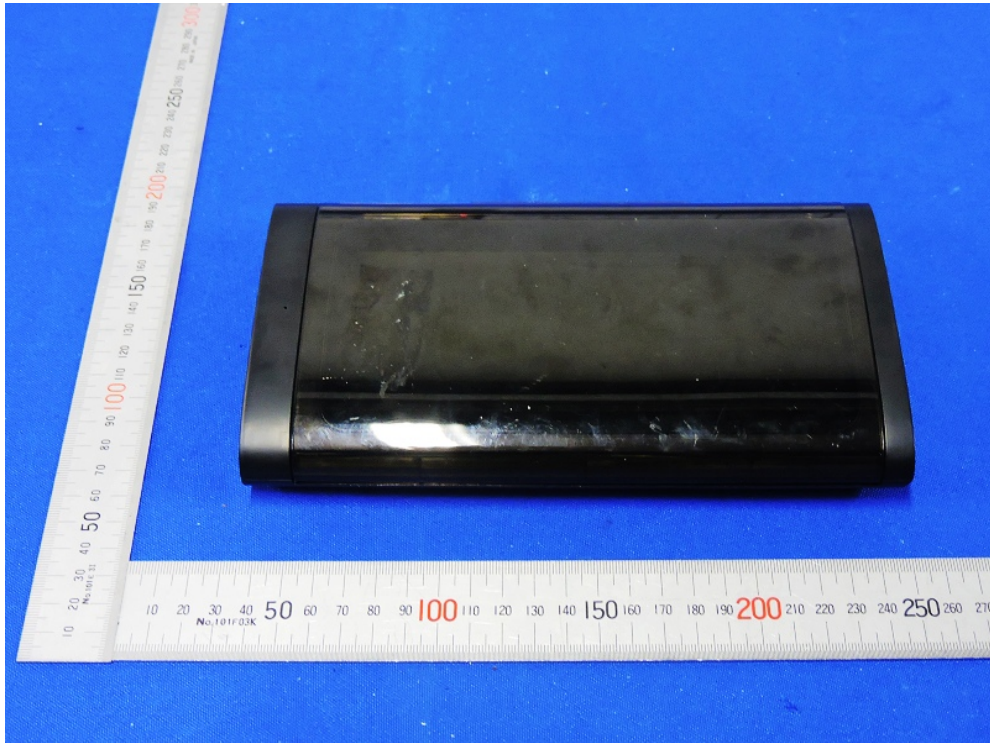
Photo for the EUT



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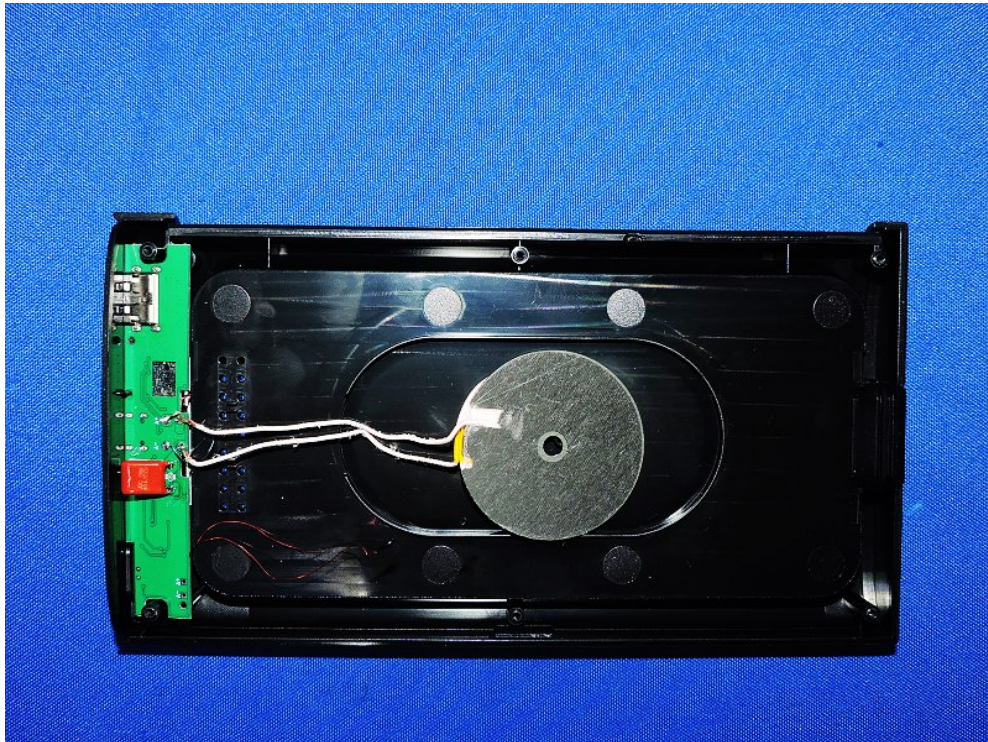


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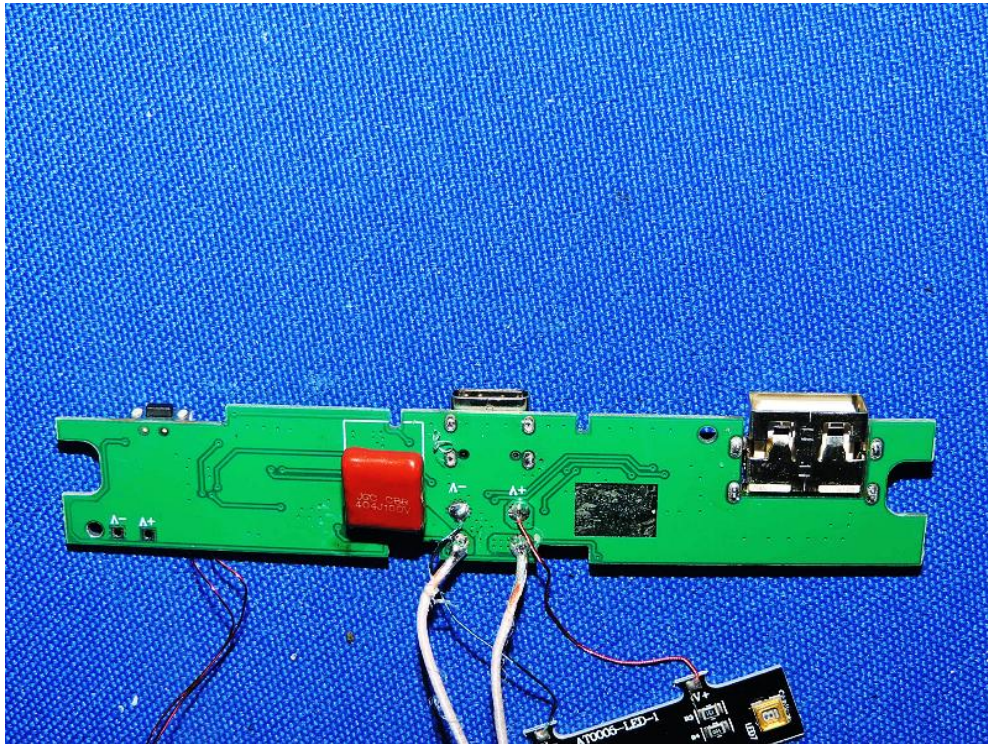
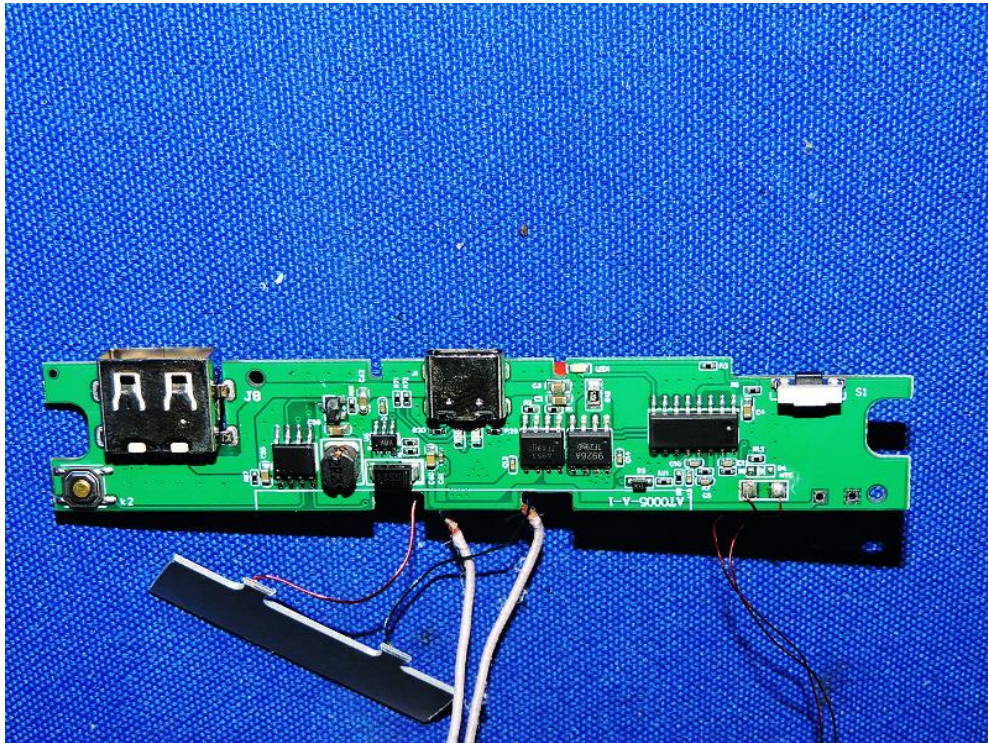


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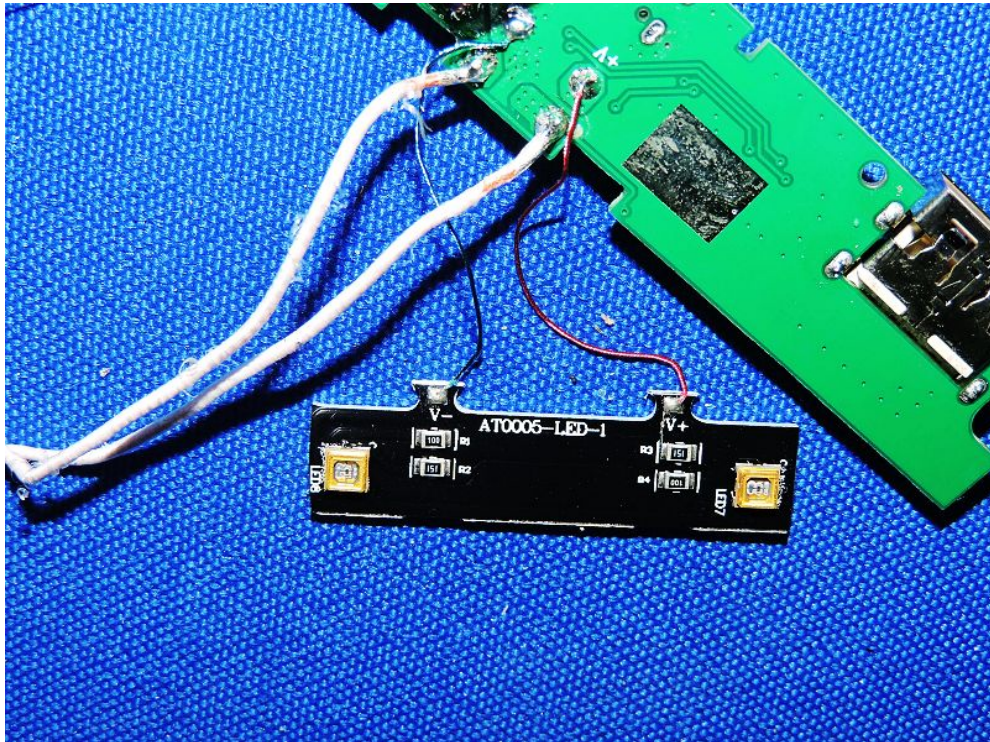
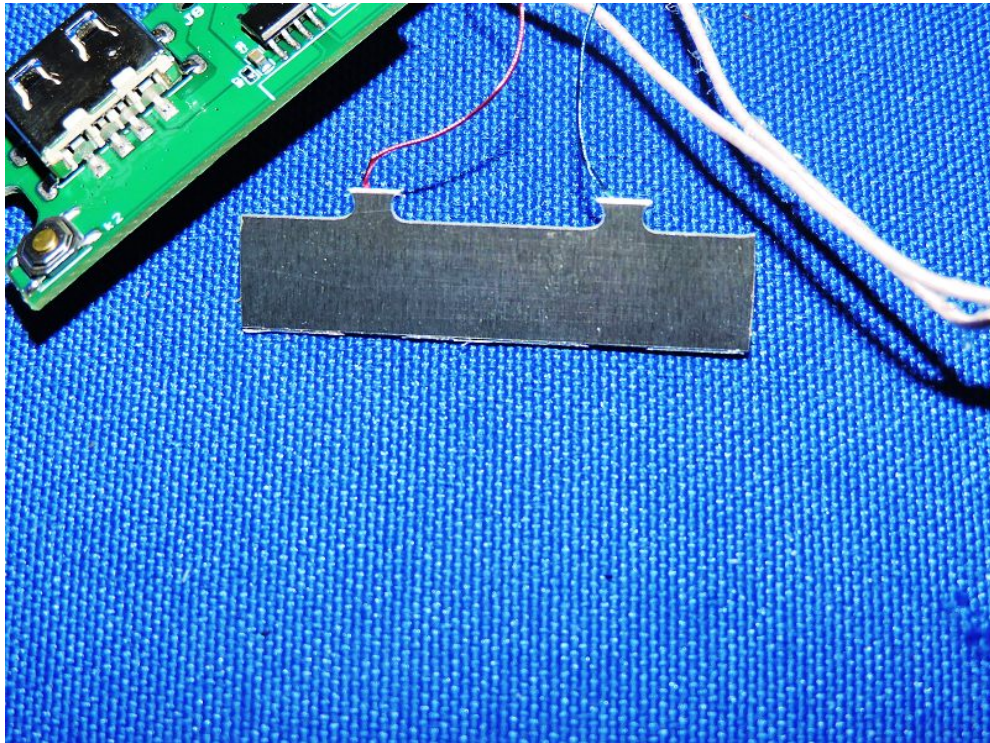


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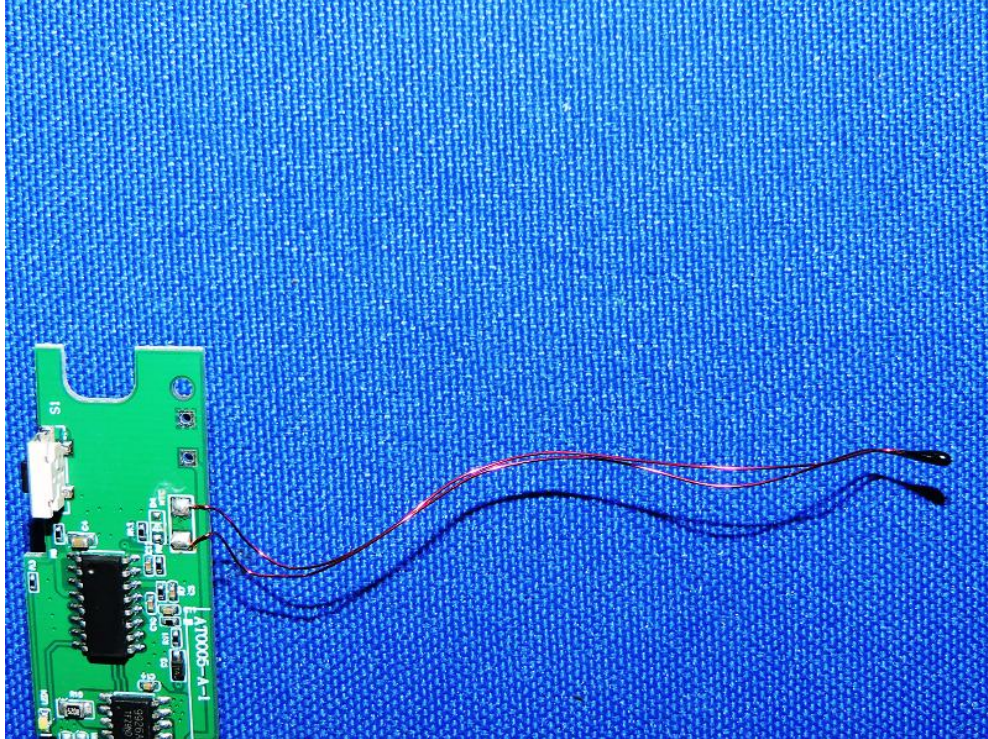
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-End of the report-

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