



Report No.: TW2208109E  
File Reference No.: 2022-08-19  
Applicant: LEADER PREMIUMS LTD.  
Product: WIRELESS CHARGER  
Model No.: AB0332  
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

*Terry Tang*

Terry Tang

Manager

Dated: August 19, 2022

**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

TEST REPORT





### **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 17025:2017 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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Test Report Conclusion

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### 1.1 General Details

#### 1.2 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

#### 1.3 Applicant Details

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

#### 1.3 Description of EUT

Product: WIRELESS CHARGER  
Manufacturer: LEADER PREMIUMS LTD.  
Address: 9/F., Hengfu Mansion, NO.858. Fuming Road, Ningbo, China  
Trademark: N/A  
Model Number: AB0332  
Additional Model Name: N/A  
Additional Trade Name: N/A  
Hardware Version: wirelesscharging-AB0123  
Software Version: leader.2021.11  
Serial No.: AB0332  
Rating: Input: DC 5V/2A or 9V/1.67A;  
Wireless output: 5V/1A or 9V/1.1A;  
Note: for wireless charging, only the data for wireless output 9V/1.1A was reported, and it was the worst case  
Operation Frequency: 111.5kHz-205kHz  
Modulation Type: MSK  
Antenna Designation: Inductive Loop Antenna with Gain 0dBi

#### 1.4 Submitted Sample

1 Samples

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1.5 Test Duration

2022-08-05 to 2022-08-19

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 \_

*Andy Xing*

Print Name: Andy Xing

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<b>2.0 Test Equipment</b>					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2022-06-17	2023-06-16
LISN	R&S	EZH3-Z5	100294	2022-06-17	2023-06-16
LISN	R&S	EZH3-Z5	100253	2022-06-17	2023-06-16
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-06-17	2023-06-16
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2022-06-17	2023-06-16
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-06-17	2023-06-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2022-06-17	2023-06-16
Power sensor	Anritsu	MA2491A	32263	2022-06-17	2023-06-16
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic	--	--	N/A	2022-06-17	2023-06-16
EMI Test Receiver	RS	ESVB	826156/011	2022-06-17	2023-06-16
EMI Test Receiver	RS	ESH3	860904/006	2022-06-17	2023-06-16
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2022-06-17	2023-06-16
Spectrum	HP/Agilent	E4407B	MY50441392	2022-06-17	2023-06-16
Spectrum	RS	FSP	1164.4391.38	2022-01-14	2023-01-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2022-06-17	2023-06-16
RF Cable	Zhengdi	7m	--	2022-06-17	2023-06-16
RF Switch	EM	EMSW18	060391	2022-06-17	2023-06-16
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-06-17	2023-06-16
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-06-17	2023-06-16
LISN	SCHAFFNER	NNB42	00012	2022-01-14	2023-01-13

## 2.2 Automation Test Software

### For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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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 FCCMP-5**

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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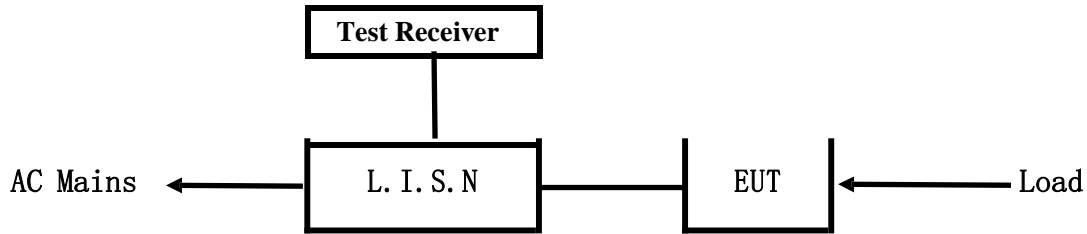
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**5. Power Line Conducted Emission Test**

5.1 Schematics of the test

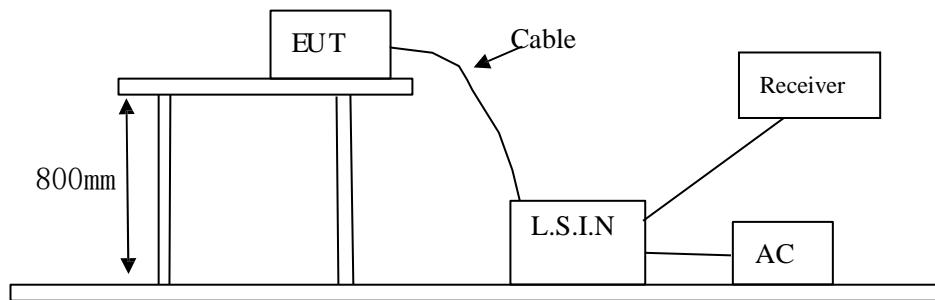


EUT: Equipment Under Test

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. AC120V 60Hz

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
WIRELESS CHARGER	LEADER PREMIUMS LTD.	AB0332	2APYY-AB0332

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Chenyang	UP0920	Input: 100-240V~, 50-60Hz, 0.5A; Output: DC5V or DC9V, 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 $\mu$ 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.)

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

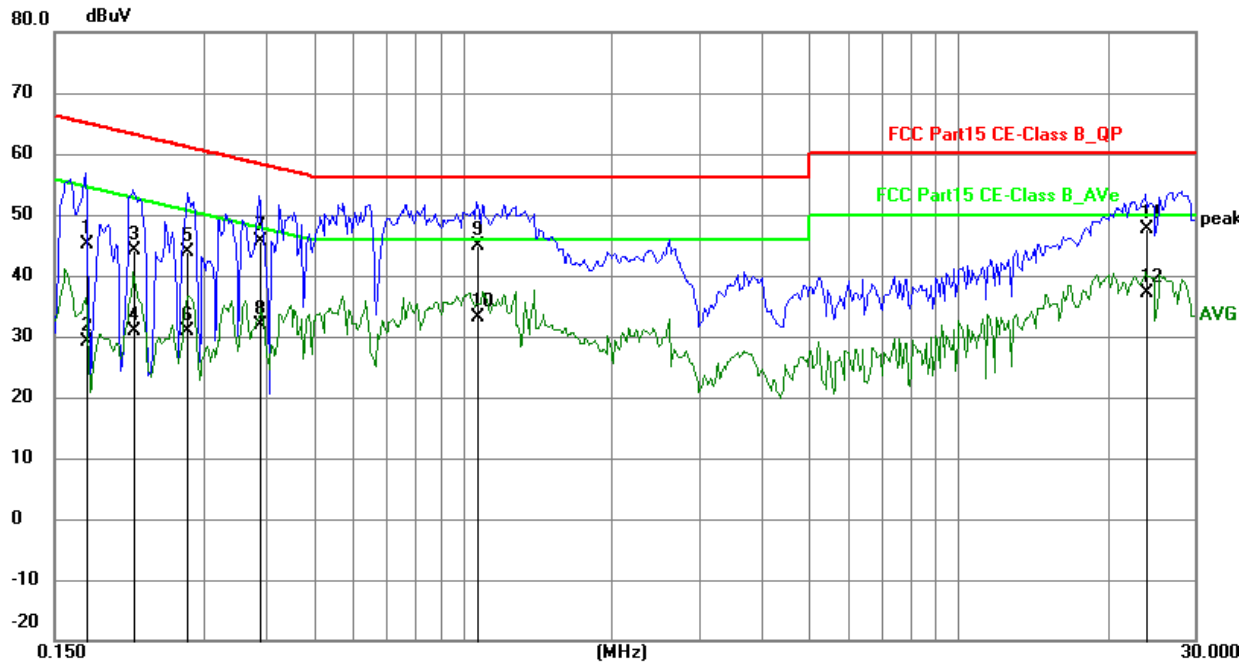
**EUT Operating Environment**

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

**EUT set Condition: Wireless Charging Mode**

**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	0.1734	35.24	9.77	45.01	64.80	-19.79	QP	P
2	0.1734	19.42	9.77	29.19	54.80	-25.61	AVG	P
3	0.2163	34.43	9.75	44.18	62.96	-18.78	QP	P
4	0.2163	21.12	9.75	30.87	52.96	-22.09	AVG	P
5	0.2787	34.21	9.76	43.97	60.85	-16.88	QP	P
6	0.2787	21.22	9.76	30.98	50.85	-19.87	AVG	P
7	0.3879	35.88	9.76	45.64	58.11	-12.47	QP	P
8	0.3879	22.22	9.76	31.98	48.11	-16.13	AVG	P
9	1.0665	35.05	9.79	44.84	56.00	-11.16	QP	P
10	1.0665	23.23	9.79	33.02	46.00	-12.98	AVG	P
11	23.8962	36.75	10.92	47.67	60.00	-12.33	QP	P
12	23.8962	26.10	10.92	37.02	50.00	-12.98	AVG	P

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

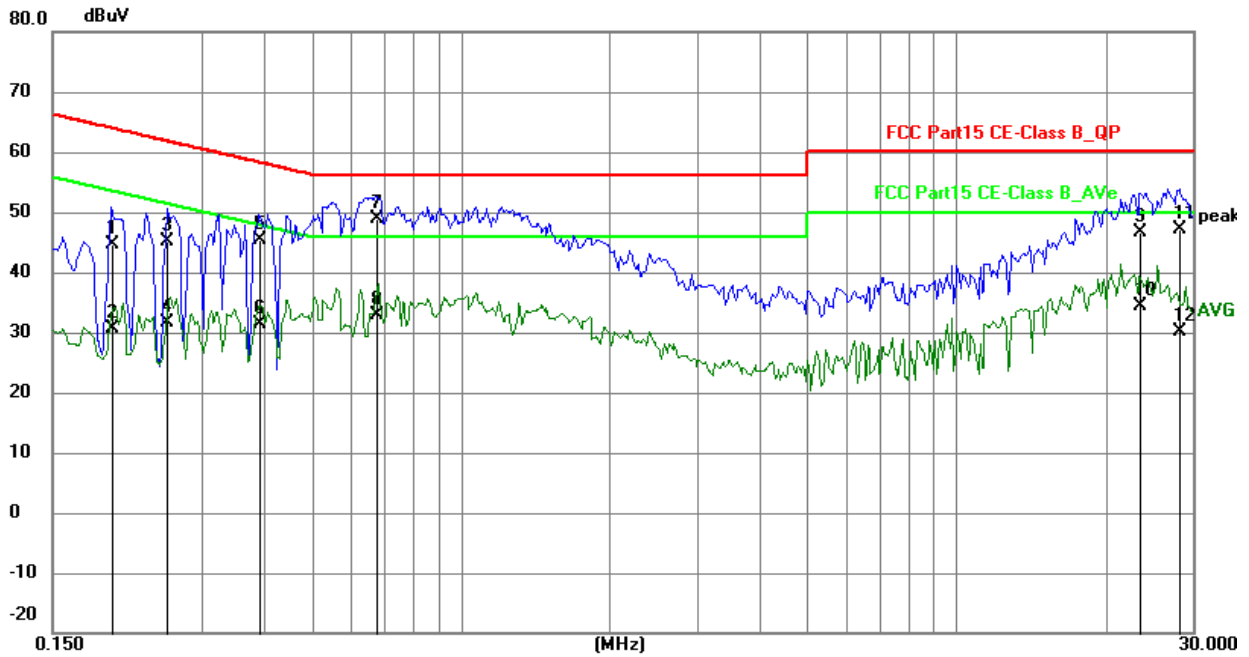
**EUT Operating Environment**

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

**EUT set Condition : Wireless Charging Mode**

**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	0.1968	34.84	9.75	44.59	63.74	-19.15	QP	P
2	0.1968	20.82	9.75	30.57	53.74	-23.17	AVG	P
3	0.2553	35.37	9.75	45.12	61.58	-16.46	QP	P
4	0.2553	21.87	9.75	31.62	51.58	-19.96	AVG	P
5	0.3918	35.62	9.76	45.38	58.03	-12.65	QP	P
6	0.3918	21.72	9.76	31.48	48.03	-16.55	AVG	P
7	0.6726	38.99	9.78	48.77	56.00	-7.23	QP	P
8	0.6726	23.13	9.78	32.91	46.00	-13.09	AVG	P
9	23.4672	35.69	10.89	46.58	60.00	-13.42	QP	P
10	23.4672	23.59	10.89	34.48	50.00	-15.52	AVG	P
11	28.1745	35.99	11.19	47.18	60.00	-12.82	QP	P
12	28.1745	19.04	11.19	30.23	50.00	-19.77	AVG	P

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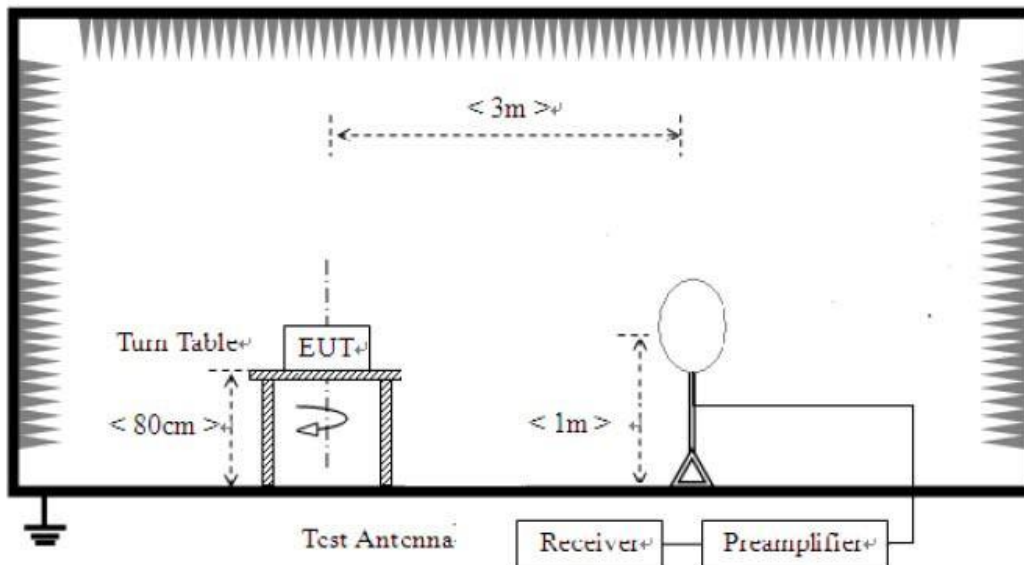
## 6 Radiated Emission Test

### 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

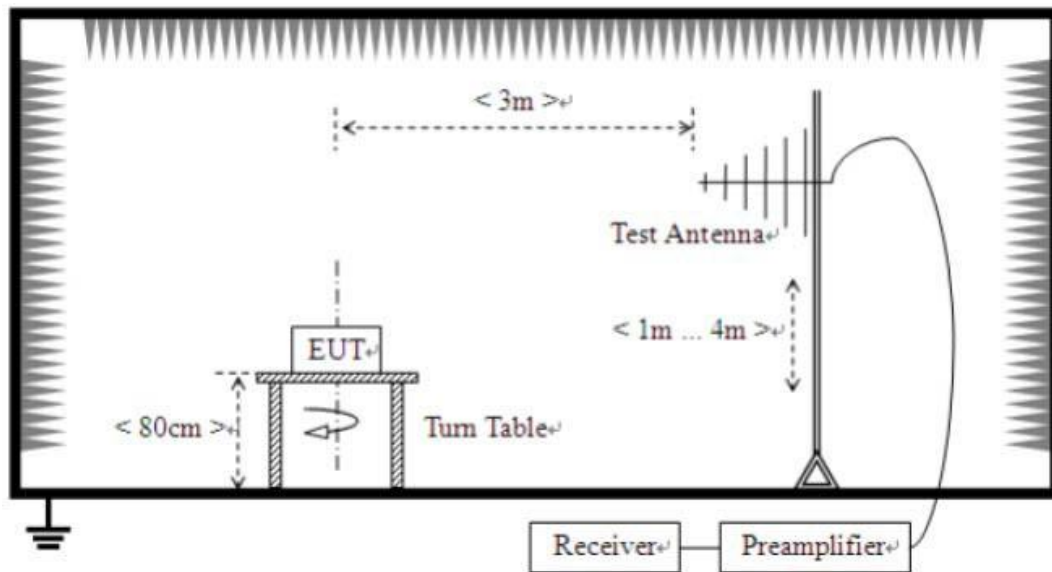


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**30MHz-1000MHz**



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 $\mu$ V/m)
0.009-30	3	103.5

**Limits for frequency above 30MHz**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ 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  $\mu$  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

The report refers only to the sample tested and does not apply to the bulk.

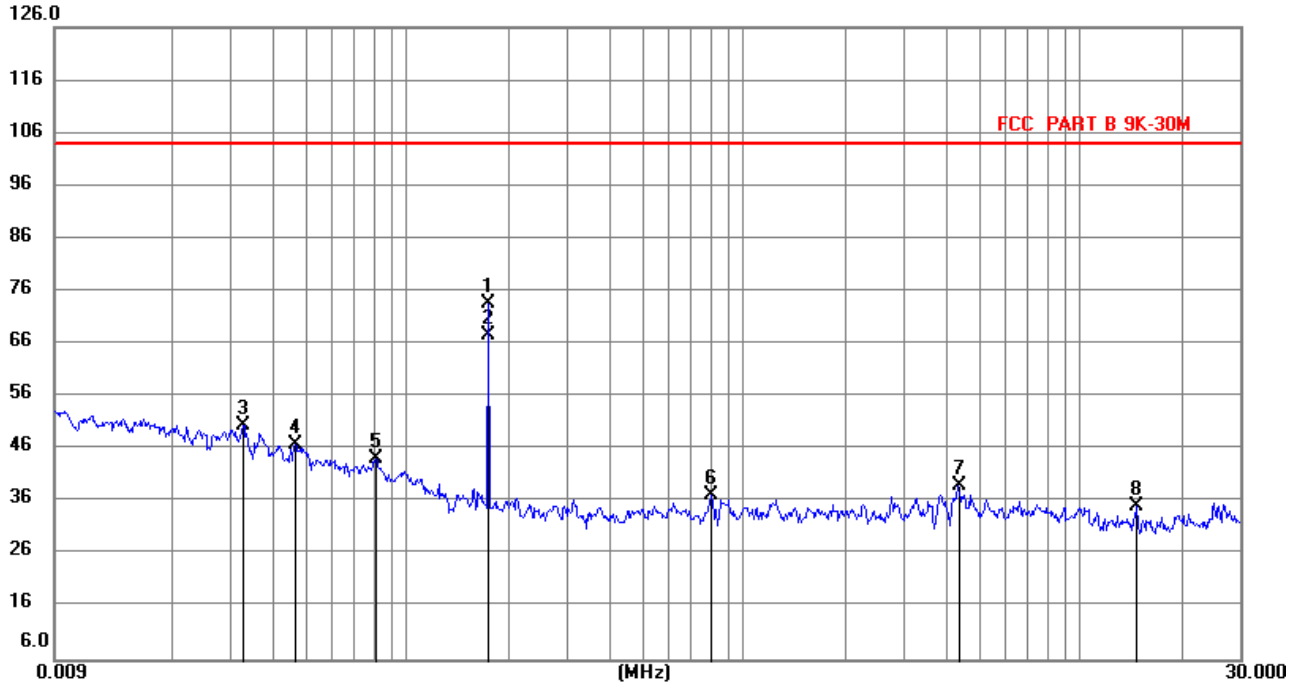
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**Measurement data:**

**9 kHz~30 MHz**



No.	Frequency (MHz)	Reading ( )	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	0.1750	63.90	9.77	73.67	103.50	-29.83	peak	P
2	0.1750	57.90	9.77	67.67	103.50	-35.83	AVG	P
3	0.0325	40.49	10.13	50.62	103.50	-52.88	peak	P
4	0.0466	37.18	9.86	47.04	103.50	-56.46	peak	P
5	0.0810	34.37	9.78	44.15	103.50	-59.35	peak	P
6	0.8034	27.45	9.78	37.23	103.50	-66.27	peak	P
7	4.3586	29.30	9.90	39.20	103.50	-64.30	peak	P
8	14.8125	24.95	10.37	35.32	103.50	-68.18	peak	P

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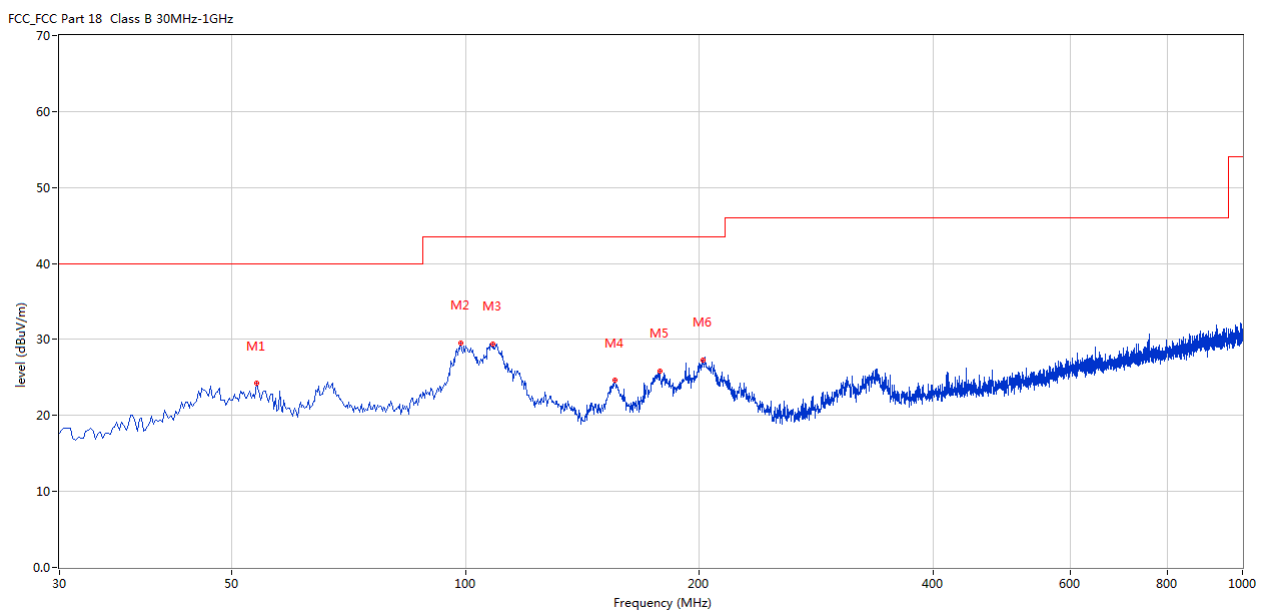


**A. General Radiated Emission Data**  
**Radiated Emission In Horizontal (30MHz----1000MHz)**

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	53.759	24.20	-11.53	40.0	-15.80	Peak	209.00	200	Horizontal	Pass
2	98.610	29.55	-13.70	43.5	-13.95	Peak	356.00	200	Horizontal	Pass
3	108.550	29.45	-13.46	43.5	-14.05	Peak	0.00	200	Horizontal	Pass
4	155.584	24.59	-16.68	43.5	-18.91	Peak	209.00	200	Horizontal	Pass
5	177.888	25.88	-15.56	43.5	-17.62	Peak	0.00	200	Horizontal	Pass
6	202.374	27.29	-13.39	43.5	-16.21	Peak	271.00	100	Horizontal	Pass

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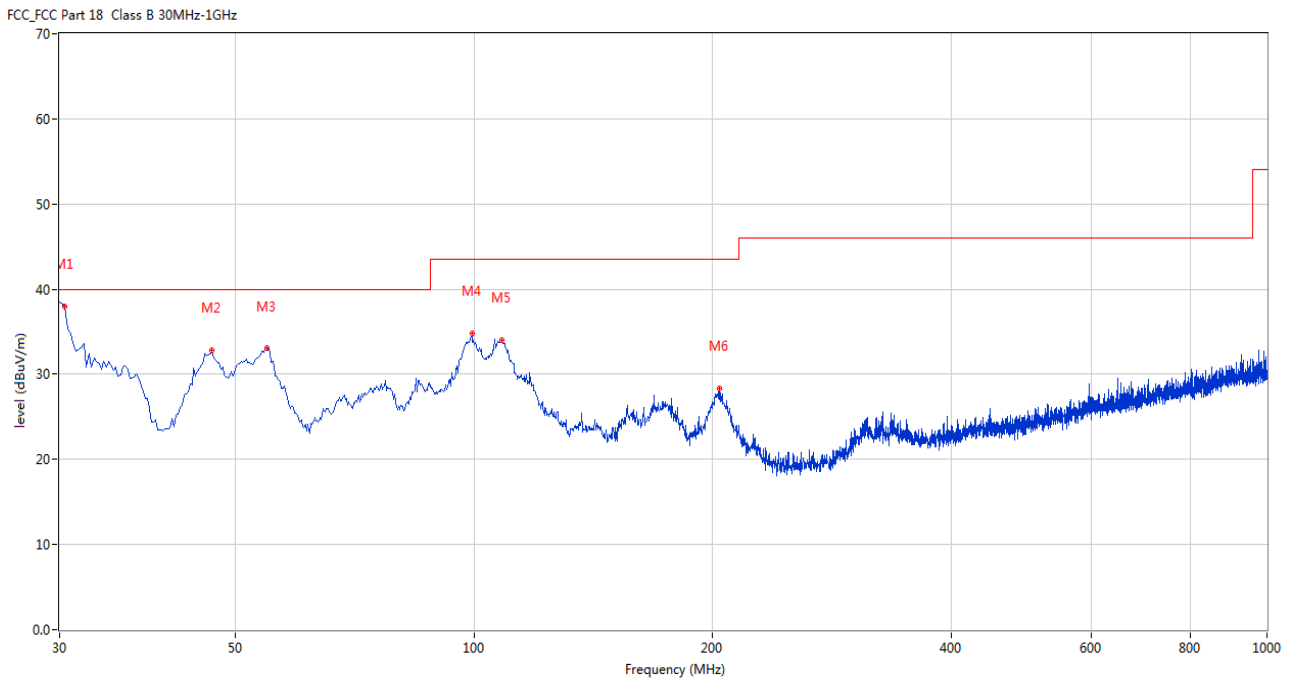
**B. General Radiated Emission Data**

**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	30.485	37.96	-14.43	40.0	-2.04	Peak	253.00	100	Vertical	Pass
2	46.728	32.79	-11.44	40.0	-7.21	Peak	324.00	100	Vertical	Pass
3	54.729	33.03	-11.72	40.0	-6.97	Peak	351.00	100	Vertical	Pass
4	99.338	34.86	-13.64	43.5	-8.64	Peak	186.00	100	Vertical	Pass
5	108.308	34.00	-13.43	43.5	-9.50	Peak	200.00	100	Vertical	Pass
6	203.829	28.32	-13.50	43.5	-15.18	Peak	213.00	100	Vertical	Pass

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**7.0 FCC ID Label**

**FCC ID: 2APYY-AB0332**

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:**



Label Location

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**8.0. Photo of testing**

**8.1 Conducted test View**



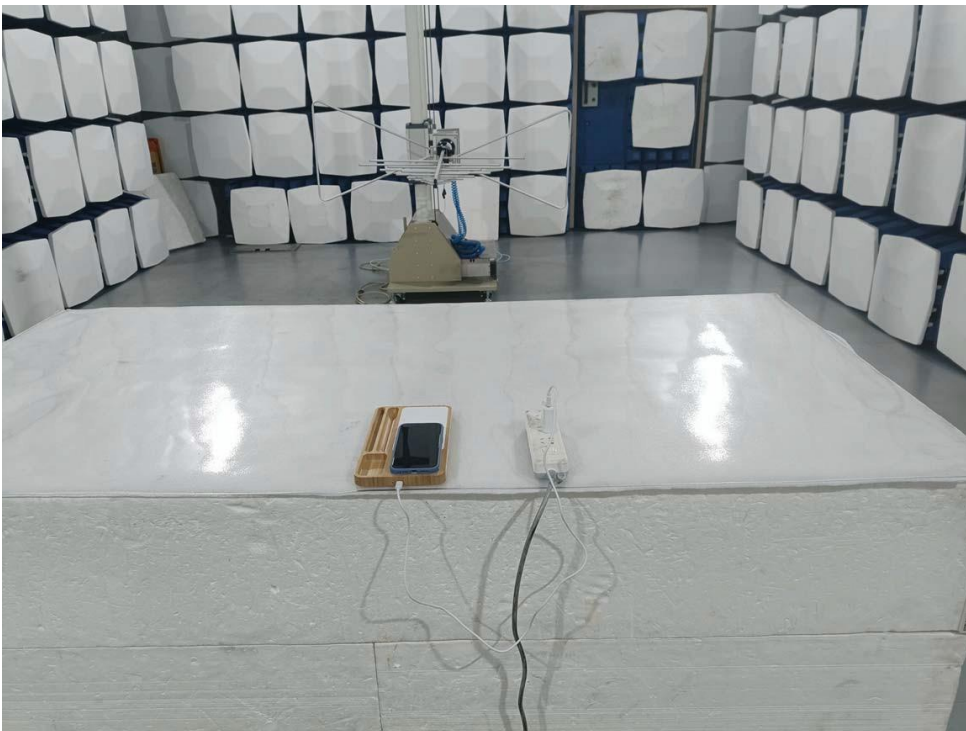
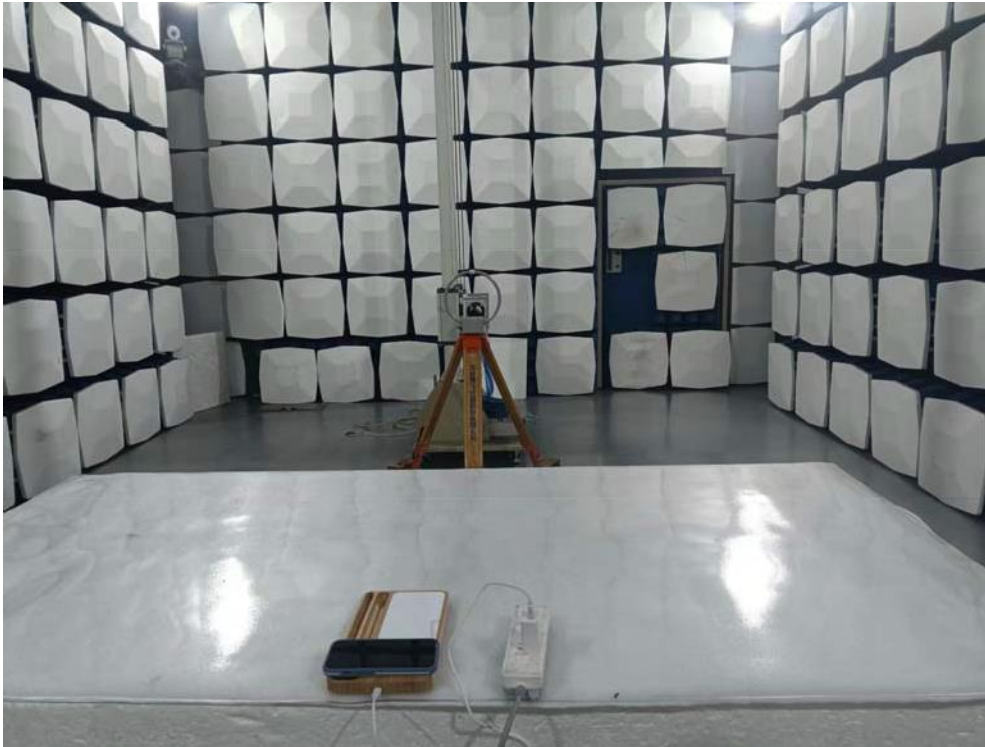
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8.2 Radiated emission test view



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Photo for the EUT



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Photo for the EUT

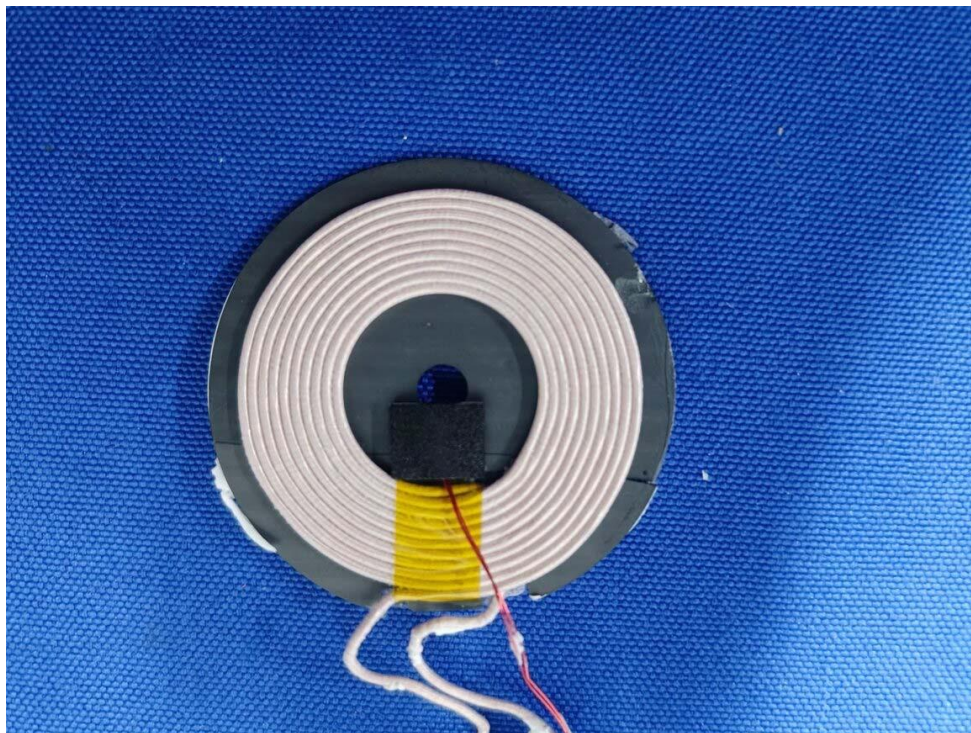


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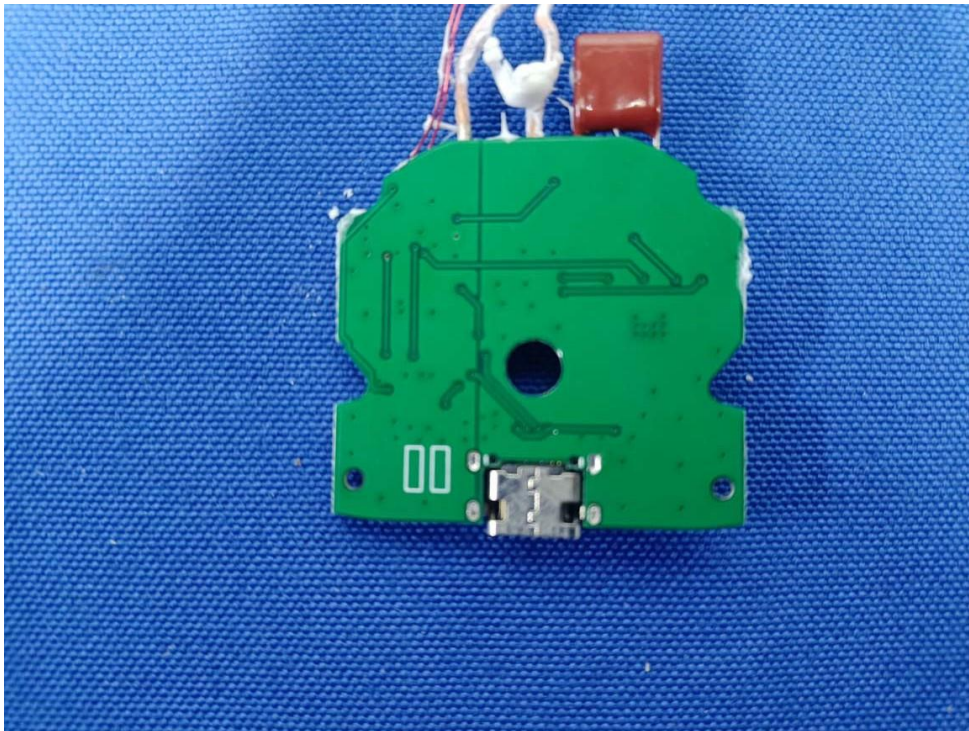
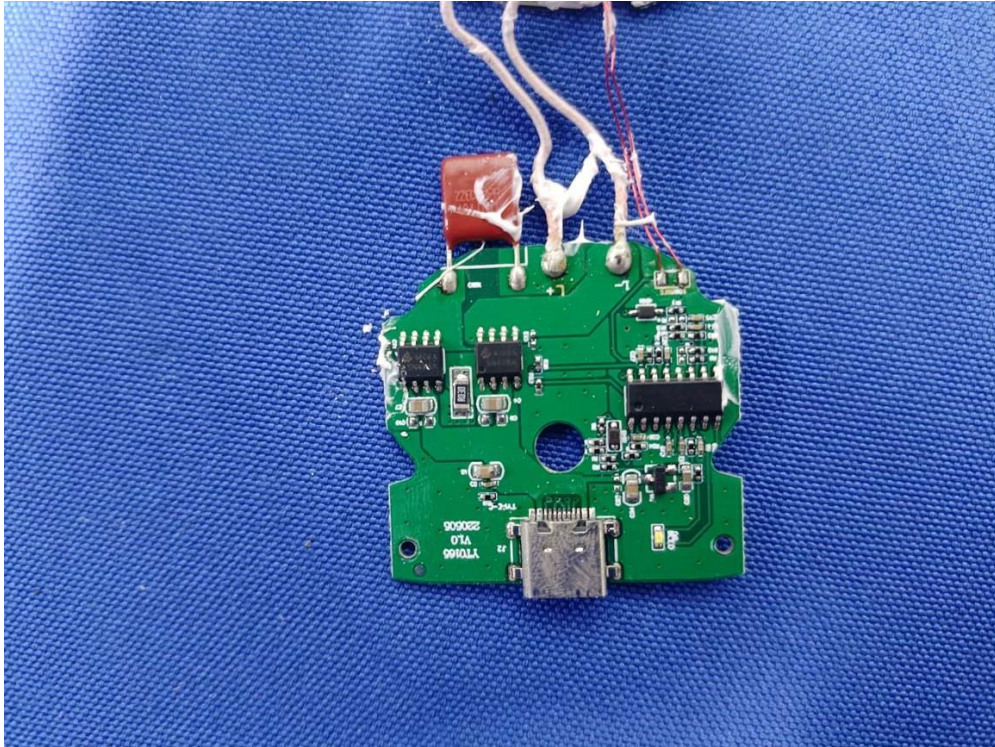


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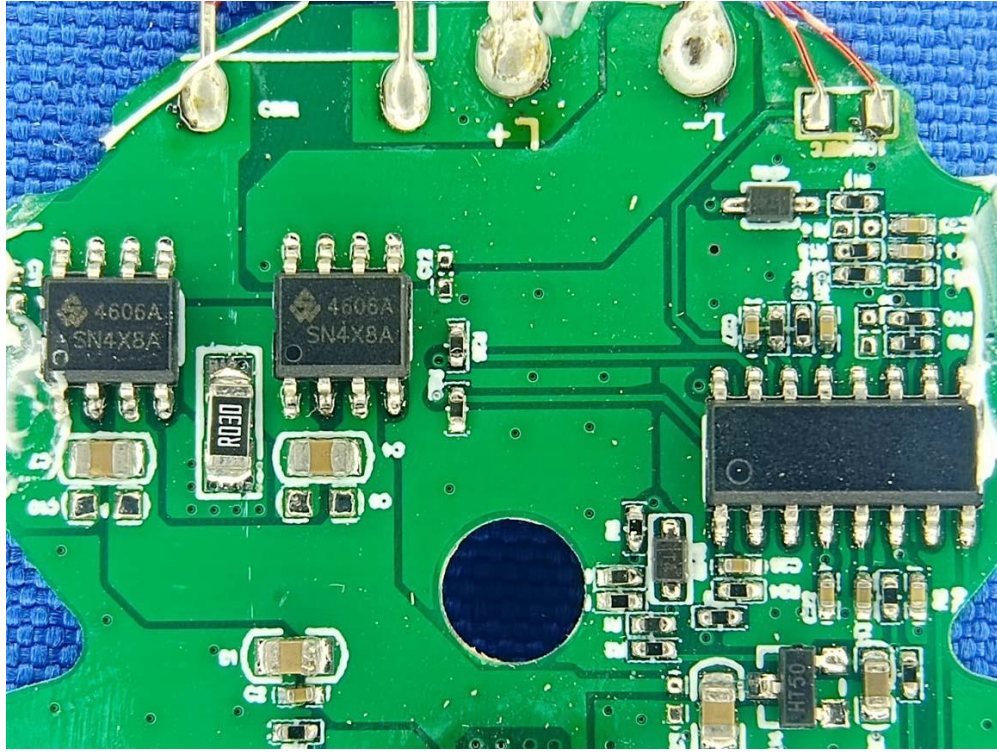
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Photo for the EUT



**-End of the report-**

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