



Report No.: TW2205072-02E

File Reference No.: 2022-05-13

Applicant: Filsion Technology Company Limited

Product: Power Bank

Model No.: PW-10KQI

Trademark: N/A

Test Standards: FCC Part 15 Subpart C

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: May 13, 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



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 meets 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 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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1.0 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: Filsion Technology Company Limited
Address: B13-7C, GuangLong Plaza, PingXin North Road, Longgang District, Shenzhen, China
Telephone: 0755-84730806
Fax: --

1.3 Description of EUT

Product: Power Bank
Manufacturer: Filsion Technology Company Limited
Address: B13-7C, GuangLong Plaza, PingXin North Road, Longgang District, Shenzhen, China
Trademark: N/A
Model Number: PW-10KQI
Additional Model Name: N/A
Additional Trade Name: N/A
Rating: Rating: Type-C Input: DC5V, 2A; Micro-USB input: DC5V, 2A;
USB Output 1: DC5V, 1A; USB Output 2: DC5V, 2A;
Wireless Output: 5W
Battery: DC3.7V, 10000mAh Li-ion battery
Hardware Version: V1.0
Software Version: V1.0
Serial No.: 849813036994
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 |

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| | | | | | | | |
|--------------|-------|-----------------|-------|----|-------|----|-------|
| 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 | | |
| Test channel | | Frequency (MHz) | | | | | |
| CH13 | | 0.175 MHz | | | | | |

Modulation Type: MSK
Antenna Designation Inductive Loop Antenna with gain 0dBi Max (Declared by the applicant)

1.4 Submitted Sample

1 Samples

1.5 Test Duration

2022-05-10 to 2022-05-13

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

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

The sample tested by Andy Xing

Print Name: Andy Xing

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| 2.0 Test Equipment | | | | | |
|--------------------|--------------|----------------------|--------------|--------------|------------|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2021-06-18 | 2022-06-17 |
| LISN | R&S | EZH3-Z5 | 100294 | 2021-06-18 | 2022-06-17 |
| LISN | R&S | EZH3-Z5 | 100253 | 2021-06-18 | 2022-06-17 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2021-06-18 | 2022-06-17 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2021-06-18 | 2024-06-17 |
| Spectrum | R&S | FSIQ26 | 100292 | 2021-06-18 | 2022-06-17 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2021-06-18 | 2022-06-17 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2021-07-02 | 2024-07-01 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2021-06-18 | 2022-06-17 |
| Power sensor | Anritsu | MA2491A | 32263 | 2021-06-18 | 2022-06-17 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2021-07-02 | 2024-07-01 |
| 9*6*6 Anechoic | -- | -- | N/A | 2021-07-02 | 2022-07-01 |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2021-06-18 | 2022-06-17 |
| EMI Test Receiver | RS | ESH3 | 860904/006 | 2021-06-18 | 2022-06-17 |
| Spectrum | HP/Agilent | ESA-L1500A | US37451154 | 2021-06-18 | 2022-06-17 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2021-06-18 | 2022-06-17 |
| Spectrum | RS | FSP | 1164.4391.38 | 2022-01-05 | 2023-01-04 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8 M/FA | -- | 2021-06-18 | 2022-06-17 |
| RF Cable | Zhengdi | 7m | -- | 2021-06-18 | 2022-06-17 |
| RF Switch | EM | EMSW18 | 060391 | 2021-06-18 | 2022-06-17 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2021-06-18 | 2022-06-17 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2021-06-18 | 2022-06-17 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2022-01-05 | 2023-01-04 |

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 Part 15, Paragraph 15.203 | Antenna requirements | Pass | Compliant | |
| FCC Part 15, Paragraph 15.207 | Conducted Emission Test | Pass | Compliant | |
| FCC Part 15, Paragraph 15.209 (a) (f) | General Requirement | Pass | Compliant | |
| FCC Part 15, Paragraph 15.215 | 20dB Bandwidth Testing | Pass | Compliant | |

3.2 Test Standards

FCC Part 15 Subpart C , ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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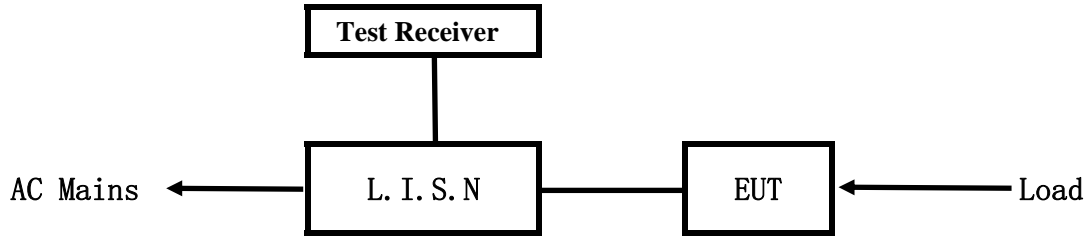
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

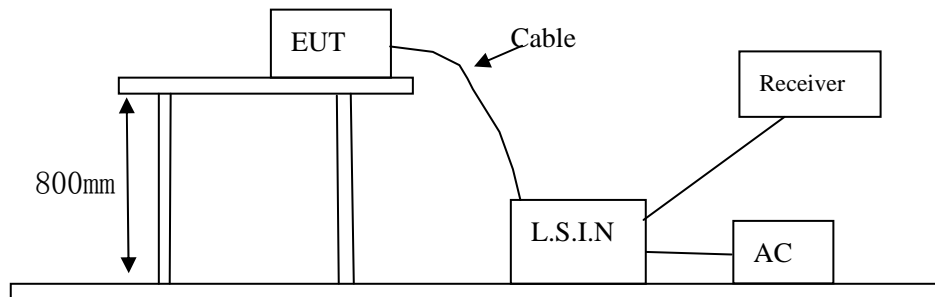


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

| Device | Manufacturer | Model | FCC ID |
|------------|------------------------------------|----------|---------------|
| Power Bank | Filsion Technology Company Limited | PW-10KQI | 2A6XVPW-10KQI |

B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A | | | |

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C. Peripherals

| Device | Manufacturer | Model | Rating |
|--------------|--------------|--------|--|
| Power Supply | Chenyang | UP0920 | Input: 100-240V~, 50-60Hz, 0.5A; Output: DC5V or DC9V, 2A |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2013.

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 15.207

| Frequency (MHz) | 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.)

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

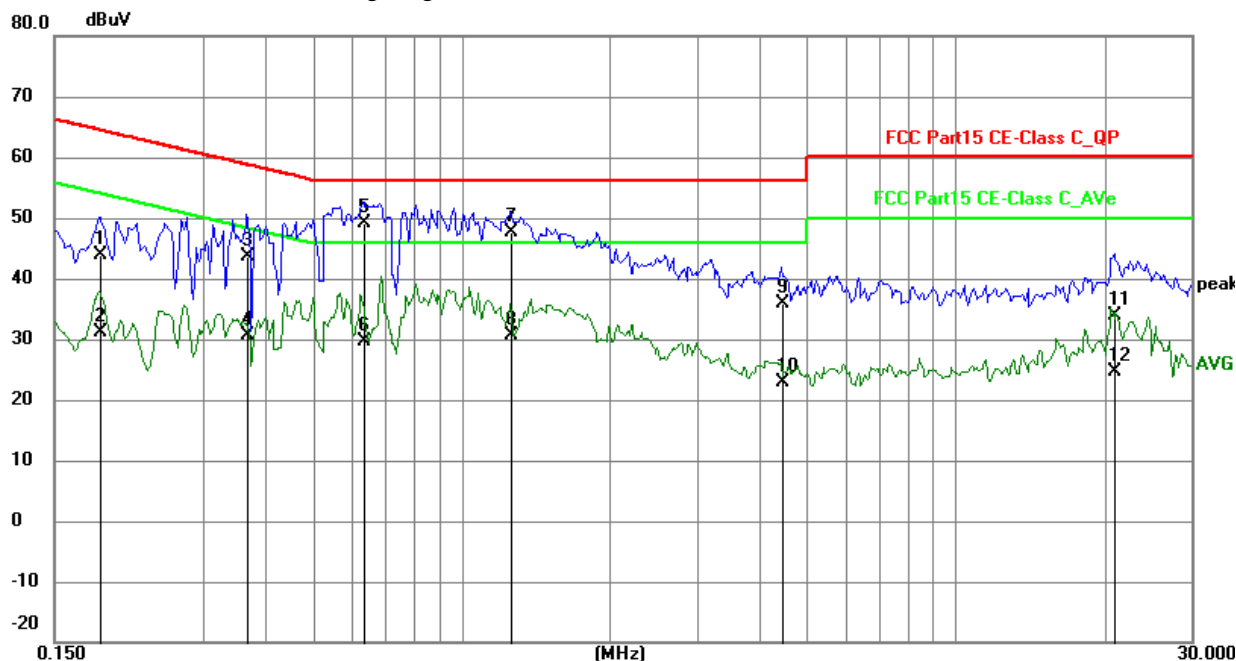
EUT Operating Environment

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

EUT set Condition: Keep Transmitting

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 | 0.1850 | 34.20 | 9.76 | 43.96 | 64.26 | -20.30 | QP | P |
| 2 | 0.1850 | 21.41 | 9.76 | 31.17 | 54.26 | -23.09 | AVG | P |
| 3 | 0.3684 | 33.85 | 9.76 | 43.61 | 58.54 | -14.93 | QP | P |
| 4 | 0.3684 | 20.88 | 9.76 | 30.64 | 48.54 | -17.90 | AVG | P |
| 5 | 0.6336 | 39.33 | 9.78 | 49.11 | 56.00 | -6.89 | QP | P |
| 6 | 0.6336 | 19.97 | 9.78 | 29.75 | 46.00 | -16.25 | AVG | P |
| 7 | 1.2576 | 37.86 | 9.79 | 47.65 | 56.00 | -8.35 | QP | P |
| 8 | 1.2576 | 20.78 | 9.79 | 30.57 | 46.00 | -15.43 | AVG | P |
| 9 | 4.4391 | 26.07 | 9.91 | 35.98 | 56.00 | -20.02 | QP | P |
| 10 | 4.4391 | 12.93 | 9.91 | 22.84 | 46.00 | -23.16 | AVG | P |
| 11 | 20.9595 | 23.13 | 10.74 | 33.87 | 60.00 | -26.13 | QP | P |
| 12 | 20.9595 | 13.95 | 10.74 | 24.69 | 50.00 | -25.31 | AVG | P |

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

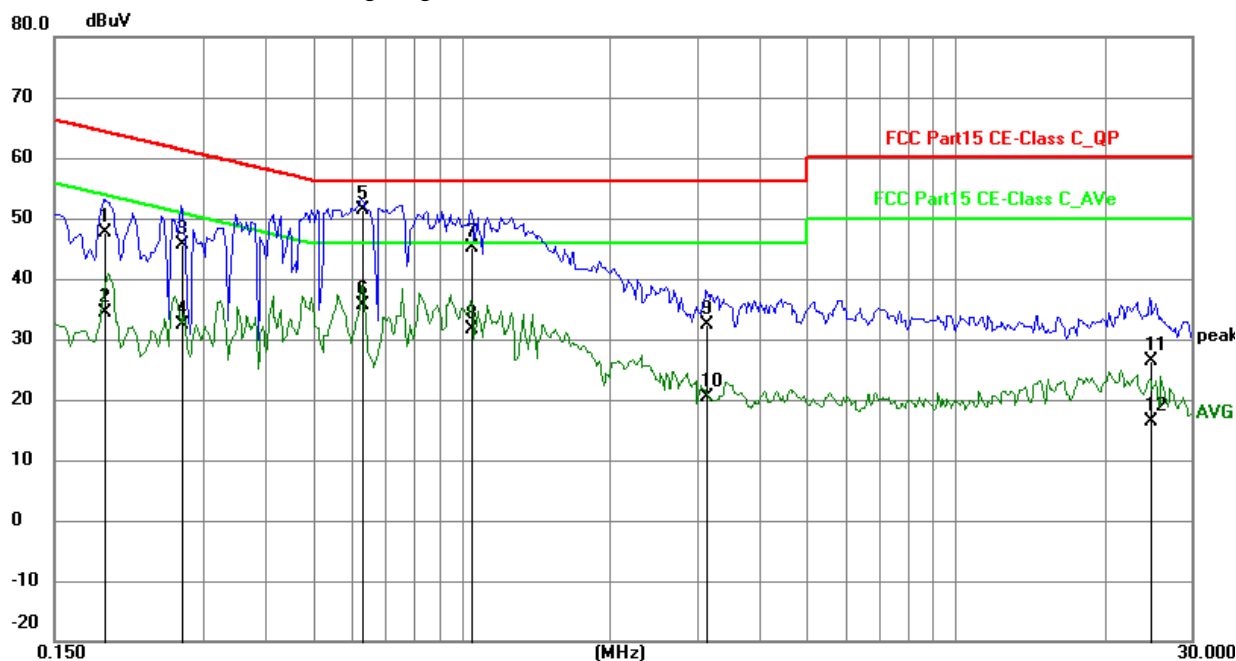
EUT Operating Environment

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

EUT set Condition: Keep Transmitting

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 | 0.1890 | 37.88 | 9.76 | 47.64 | 64.08 | -16.44 | QP | P |
| 2 | 0.1890 | 24.74 | 9.76 | 34.50 | 54.08 | -19.58 | AVG | P |
| 3 | 0.2709 | 35.98 | 9.75 | 45.73 | 61.09 | -15.36 | QP | P |
| 4 | 0.2709 | 22.61 | 9.75 | 32.36 | 51.09 | -18.73 | AVG | P |
| 5 | 0.6297 | 41.68 | 9.78 | 51.46 | 56.00 | -4.54 | QP | P |
| 6 | 0.6297 | 25.81 | 9.78 | 35.59 | 46.00 | -10.41 | AVG | P |
| 7 | 1.0470 | 35.25 | 9.79 | 45.04 | 56.00 | -10.96 | QP | P |
| 8 | 1.0470 | 21.91 | 9.79 | 31.70 | 46.00 | -14.30 | AVG | P |
| 9 | 3.1287 | 22.63 | 9.85 | 32.48 | 56.00 | -23.52 | QP | P |
| 10 | 3.1287 | 10.42 | 9.85 | 20.27 | 46.00 | -25.73 | AVG | P |
| 11 | 24.7386 | 15.46 | 10.97 | 26.43 | 60.00 | -33.57 | QP | P |
| 12 | 24.7386 | 5.31 | 10.97 | 16.28 | 50.00 | -33.72 | AVG | P |

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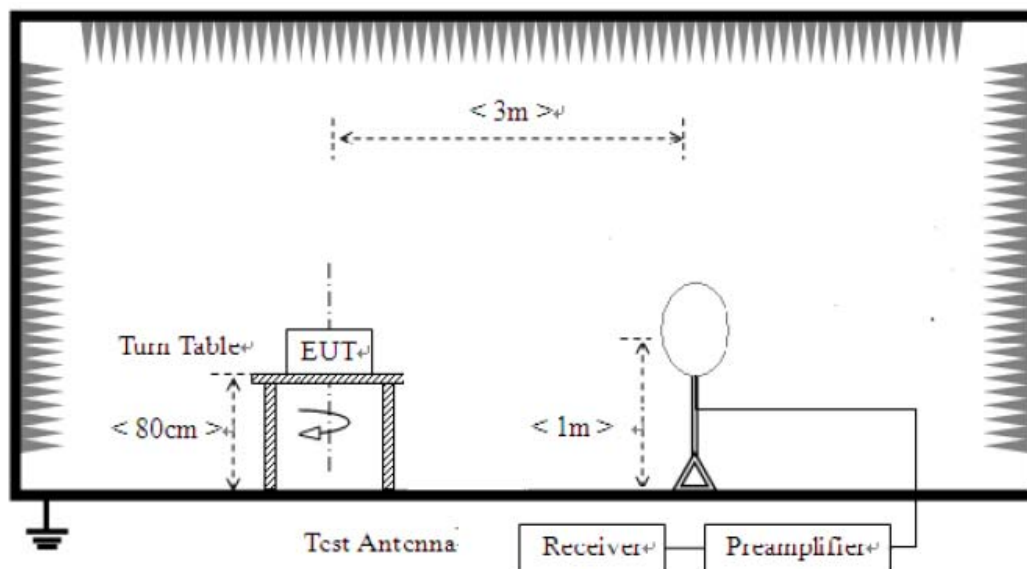
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. 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 ANSI C63.10-2013.
- (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



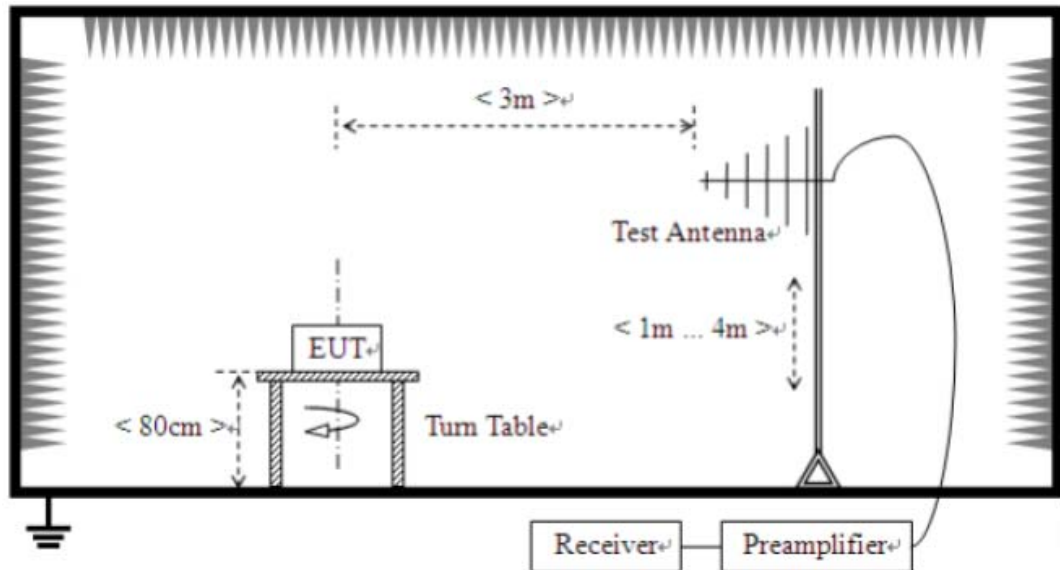
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30MHz-1000MHz



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 15.209.

Limits for frequency below 30MHz

| Frequency Range (MHz) | Distance (m) | Field strength (V/m) |
|-----------------------|--------------|-----------------------|
| 0.009-0.490 | 300 | $2400/F(\text{kHz})$ |
| 0.490-1.705 | 30 | $24000/F(\text{kHz})$ |
| 1.705-30 | 30 | 30 |

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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 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. 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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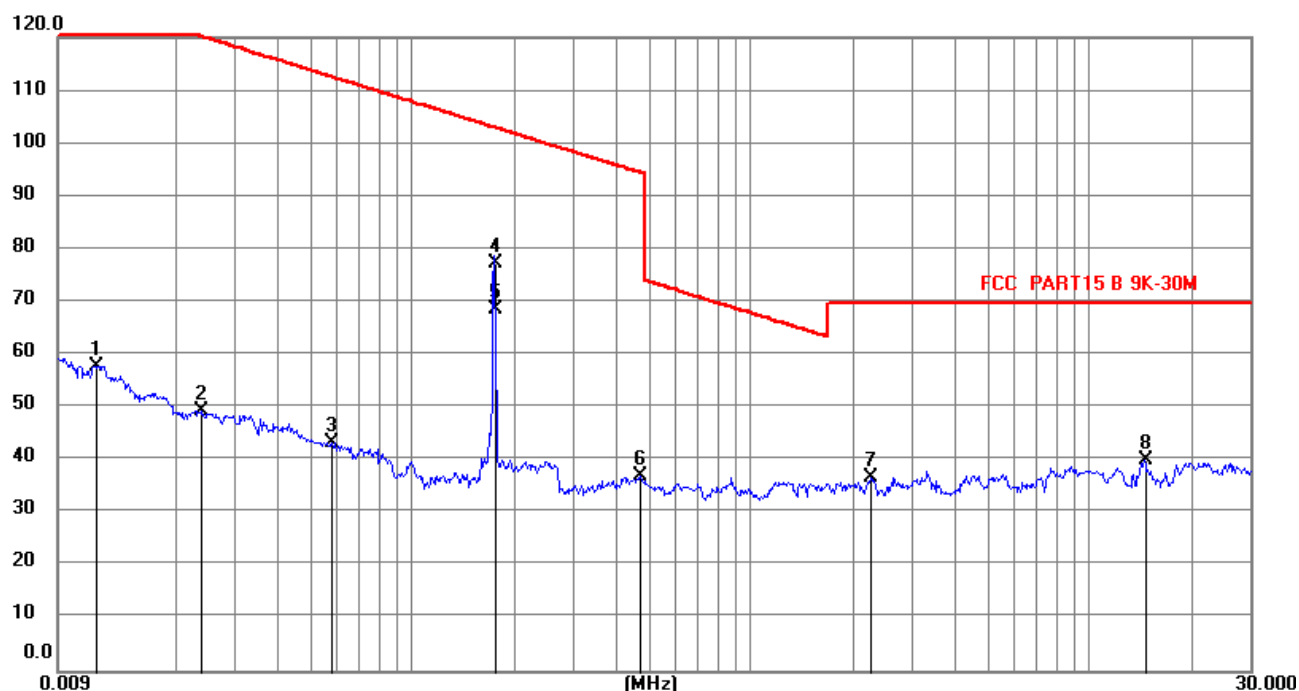


Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz



| No. | Frequency (MHz) | Reading () | Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|-------------|----------------|----------------|-------------|----------|-----|
| 1 | 0.0117 | 47.83 | 10.06 | 57.89 | 126.06 | -68.17 | peak | P |
| 2 | 0.0238 | 38.93 | 10.29 | 49.22 | 119.93 | -70.71 | peak | P |
| 3 | 0.0580 | 33.61 | 9.78 | 43.39 | 112.23 | -68.84 | peak | P |
| 4 | 0.1753 | 67.54 | 9.77 | 77.31 | 102.68 | -25.37 | peak | P |
| 5 | 0.1753 | 58.67 | 9.77 | 68.44 | 102.68 | -34.24 | AVG | P |
| 6 | 0.4702 | 27.24 | 9.77 | 37.01 | 94.16 | -57.15 | peak | P |
| 7 | 2.2659 | 27.08 | 9.81 | 36.89 | 69.51 | -32.62 | peak | P |
| 8 | 14.6250 | 29.68 | 10.36 | 40.04 | 69.57 | -29.53 | peak | P |

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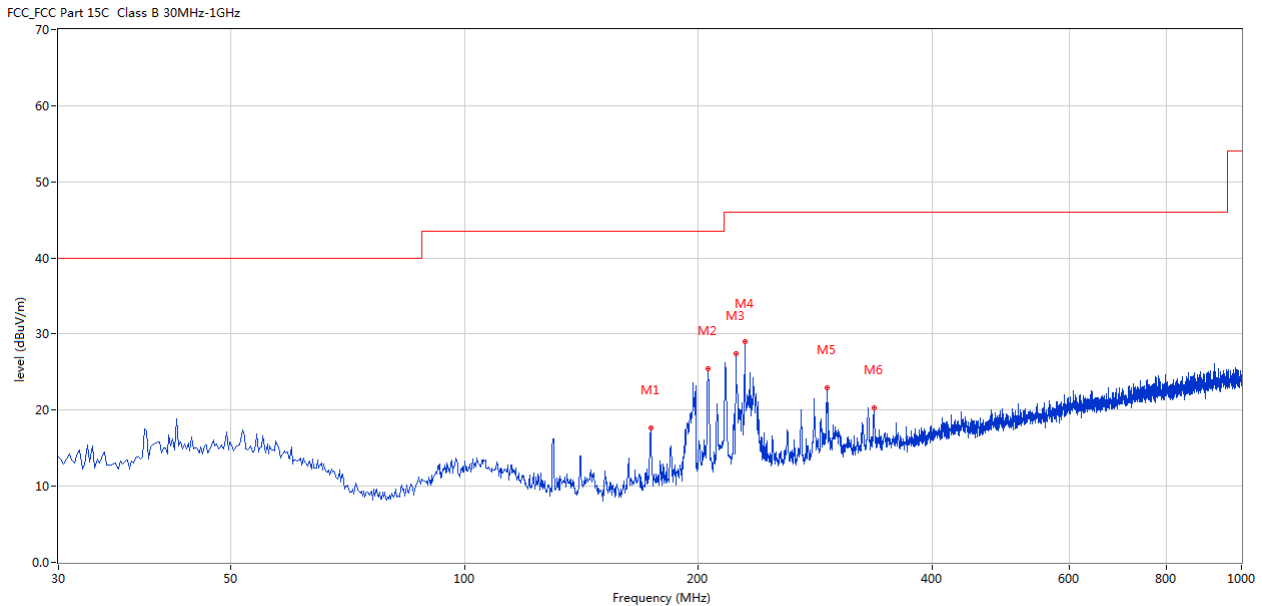
A. General Radiated Emission Data

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 | 173.524 | 17.64 | -15.90 | 43.5 | -25.86 | Peak | 360.00 | 200 | Horizontal | Pass |
| 2 | 205.769 | 25.44 | -13.63 | 43.5 | -18.06 | Peak | 208.00 | 200 | Horizontal | Pass |
| 3 | 223.224 | 27.39 | -13.17 | 46.0 | -18.61 | Peak | 236.00 | 200 | Horizontal | Pass |
| 4 | 229.285 | 28.98 | -12.69 | 46.0 | -17.02 | Peak | 236.00 | 200 | Horizontal | Pass |
| 5 | 292.562 | 22.91 | -11.26 | 46.0 | -23.09 | Peak | 58.00 | 100 | Horizontal | Pass |
| 6 | 336.201 | 20.36 | -9.90 | 46.0 | -25.64 | Peak | 62.00 | 100 | Horizontal | Pass |

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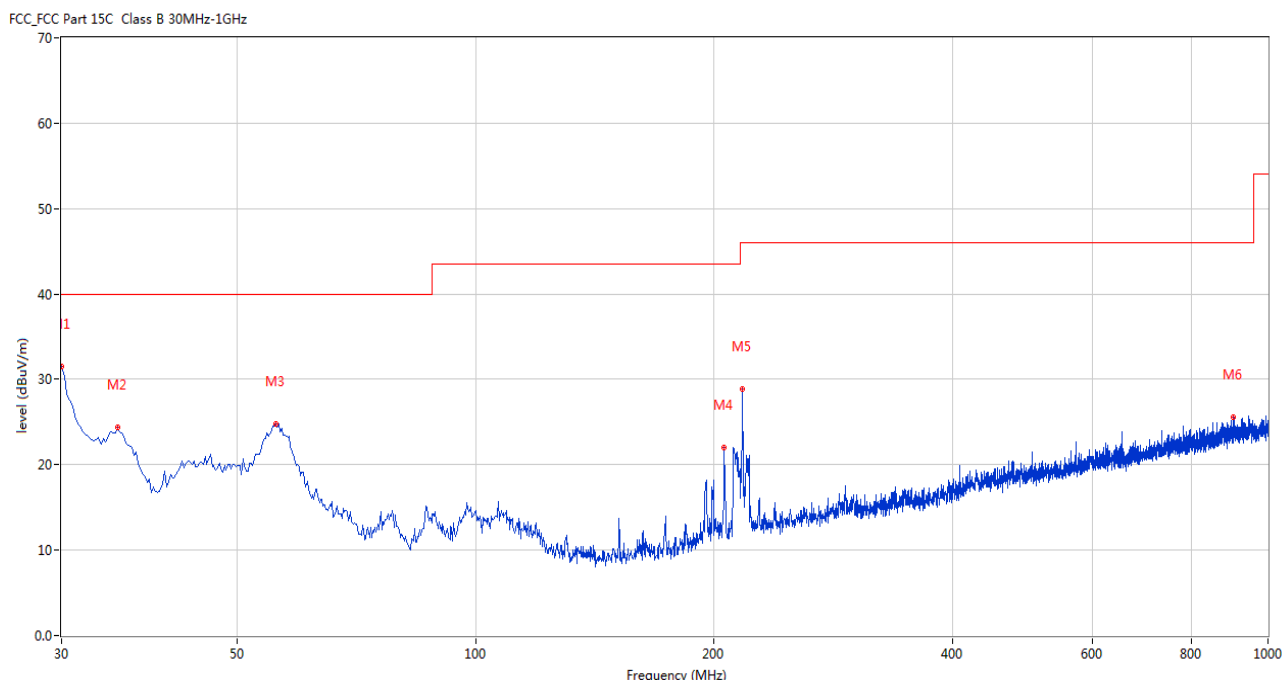
B. General Radiated Emission Data

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 | 30.000 | 31.50 | -14.19 | 40.0 | -8.50 | Peak | 125.00 | 100 | Vertical | Pass |
| 2 | 35.334 | 24.40 | -13.92 | 40.0 | -15.60 | Peak | 90.00 | 100 | Vertical | Pass |
| 3 | 55.941 | 24.82 | -12.00 | 40.0 | -15.18 | Peak | 1.00 | 100 | Vertical | Pass |
| 4 | 205.769 | 21.97 | -13.63 | 43.5 | -21.53 | Peak | 258.00 | 100 | Vertical | Pass |
| 5 | 217.163 | 28.92 | -13.49 | 46.0 | -17.08 | Peak | 360.00 | 200 | Vertical | Pass |
| 6 | 903.509 | 25.56 | -1.80 | 46.0 | -20.44 | Peak | 360.00 | 200 | Vertical | Pass |

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7.0 20dB Bandwidth Testing

7.1 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

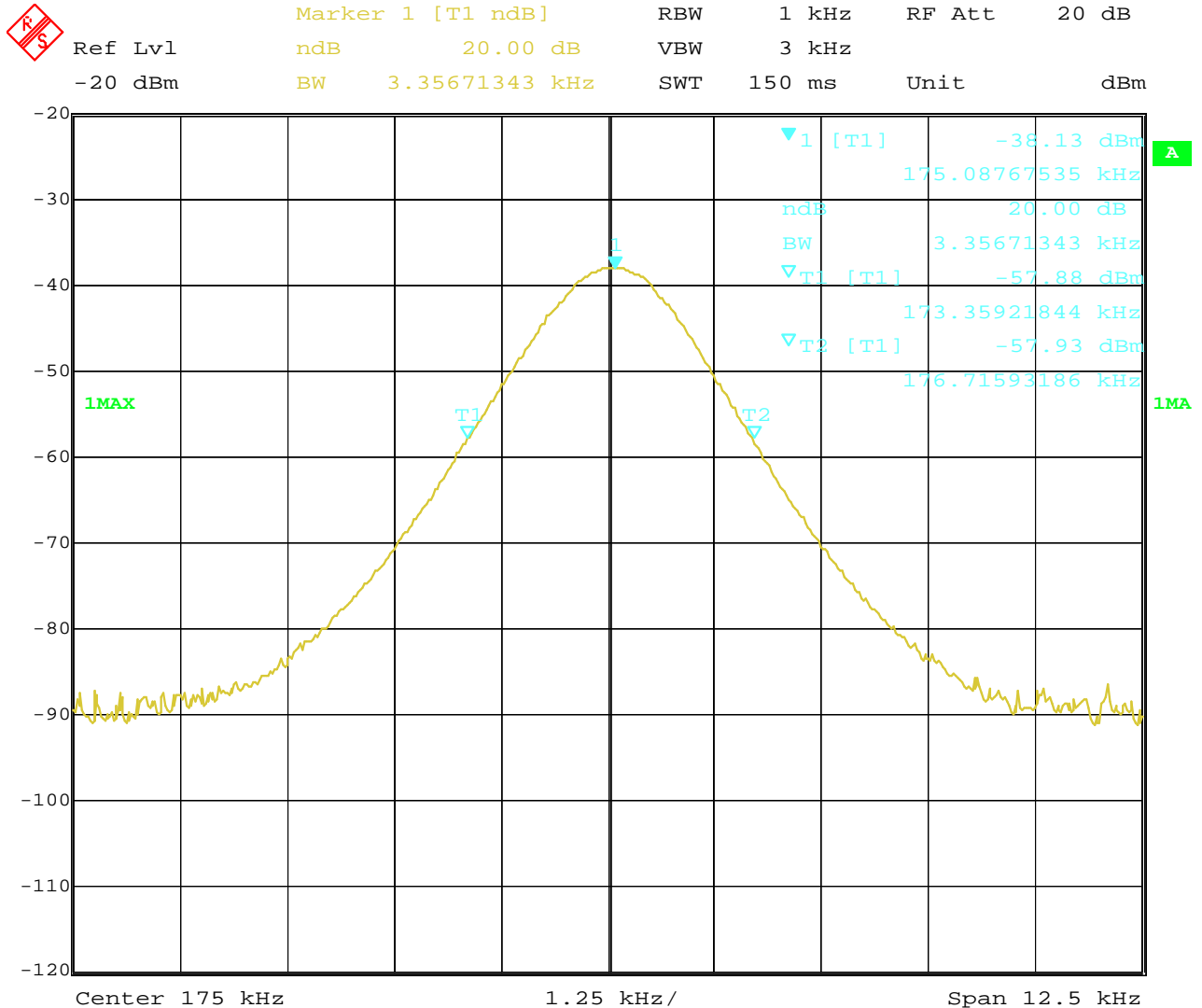
7.3 Test Data

| Frequency (MHz) | 20dB Bandwidth Emission (kHz) | Limit (kHz) | Result |
|-----------------|-------------------------------|-------------|--------|
| 0.175 | 3.357 | -- | Pass |

Refer to attached plots:



20dB Bandwidth



Date: 12.MAY.2022 09:58:58

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8.0 Antenna Requirement

8.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

8.2 Antenna Connected constructions

The antenna is Inductive Loop Antenna. The antenna gain is 0dBi. So it meets the requirement of 15.203

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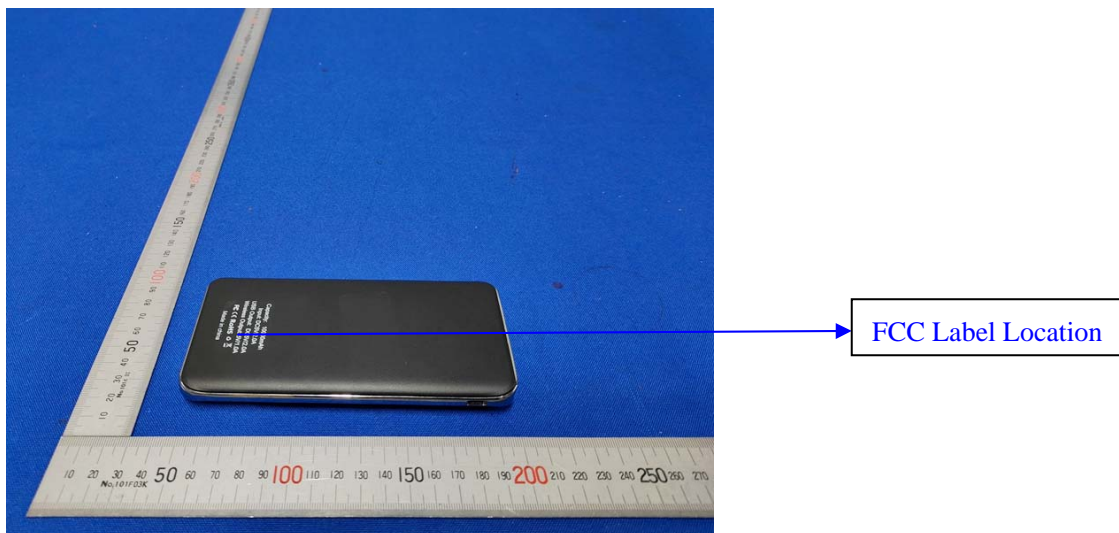
9.0 FCC ID Label

FCC ID: 2A6XVPW-10KQI

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation

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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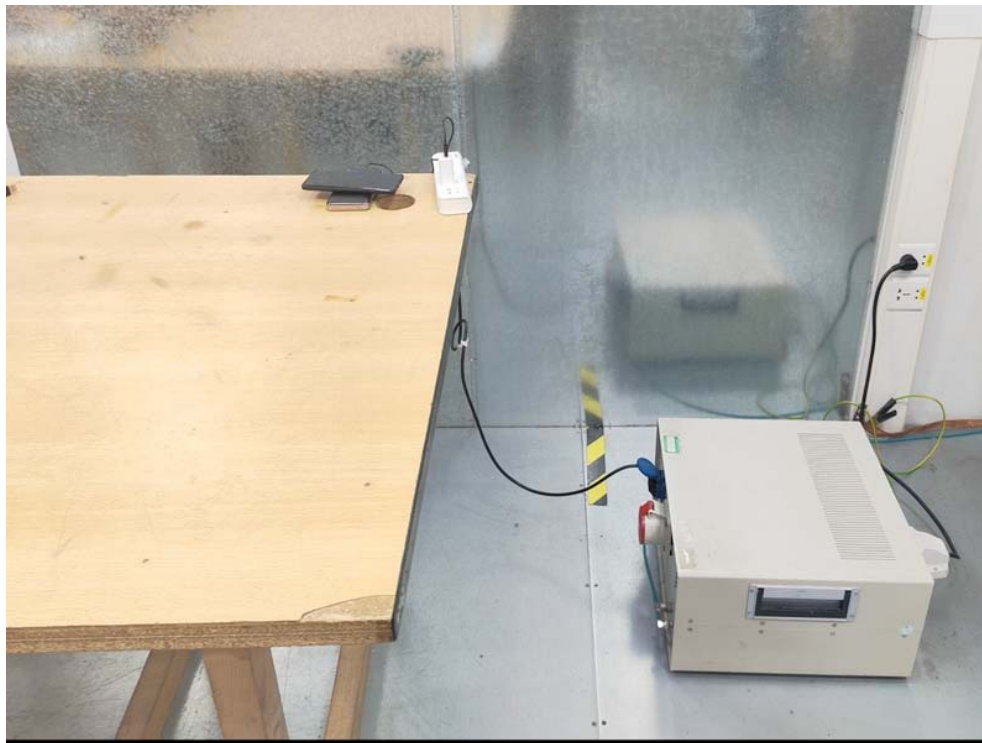
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10.0. Photo of testing

10.1 Conducted test View



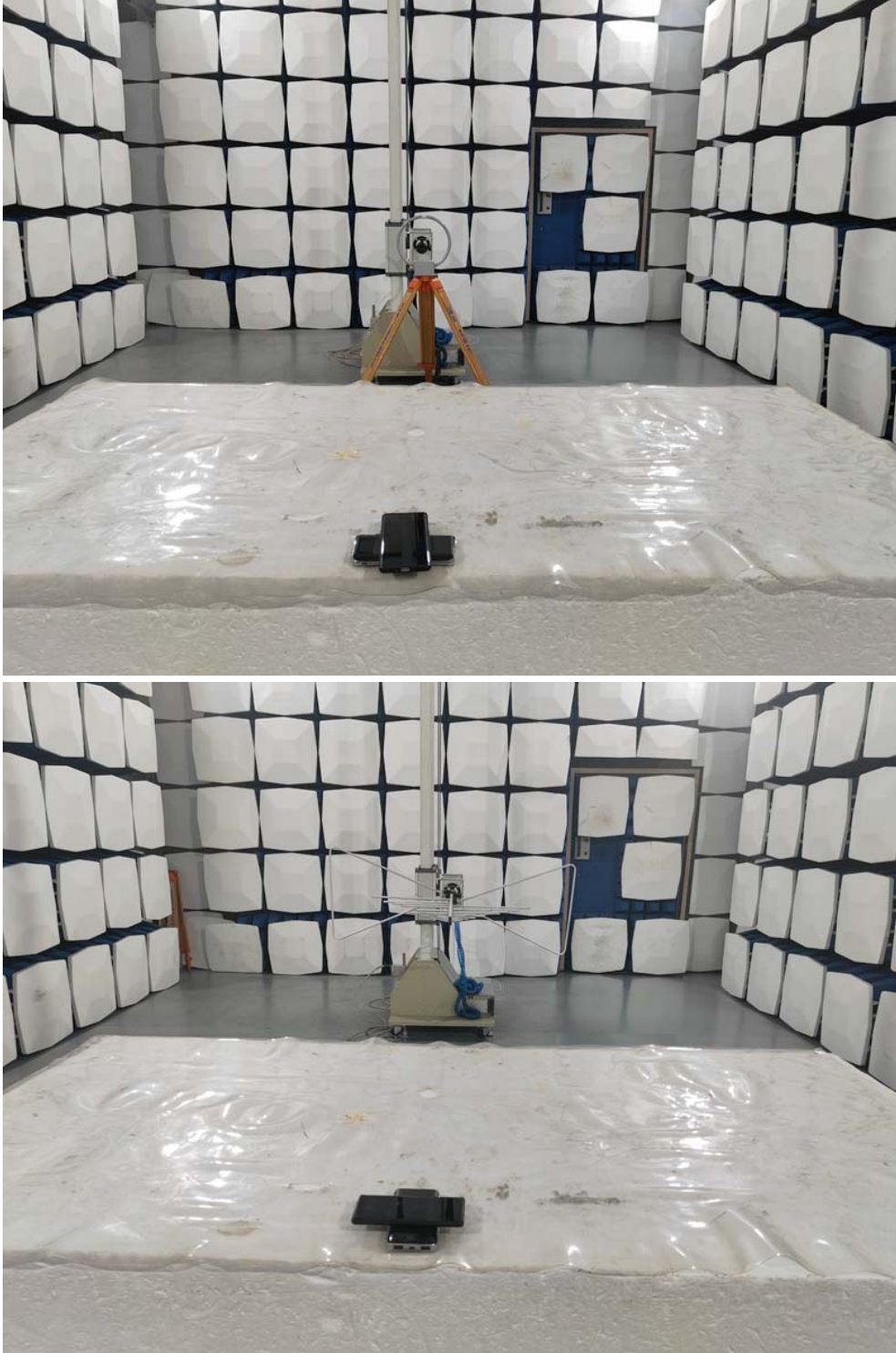
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10.2 Radiated emission test view



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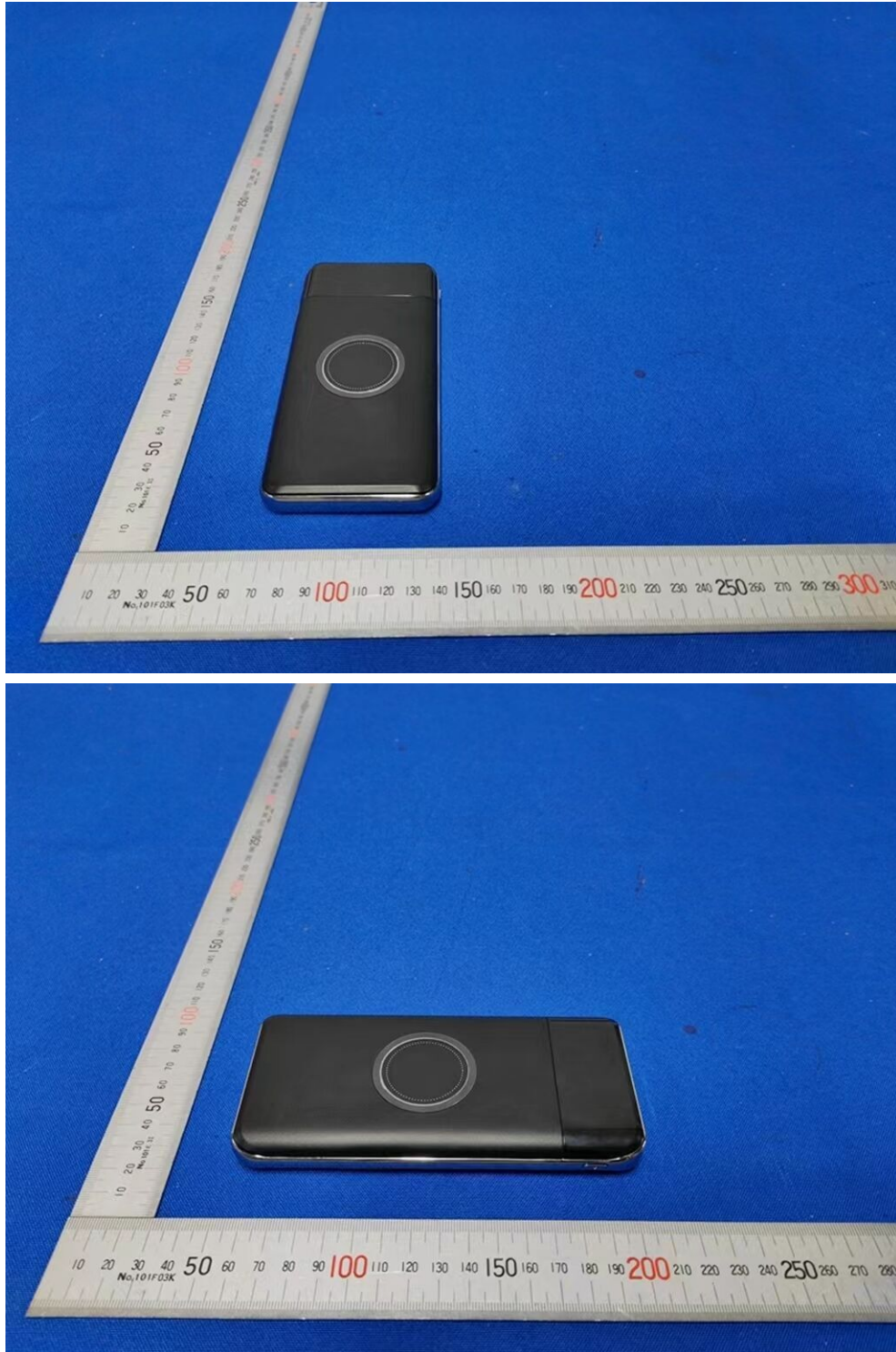
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Photographs – EUT

Outside View



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Outside View



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Outside View



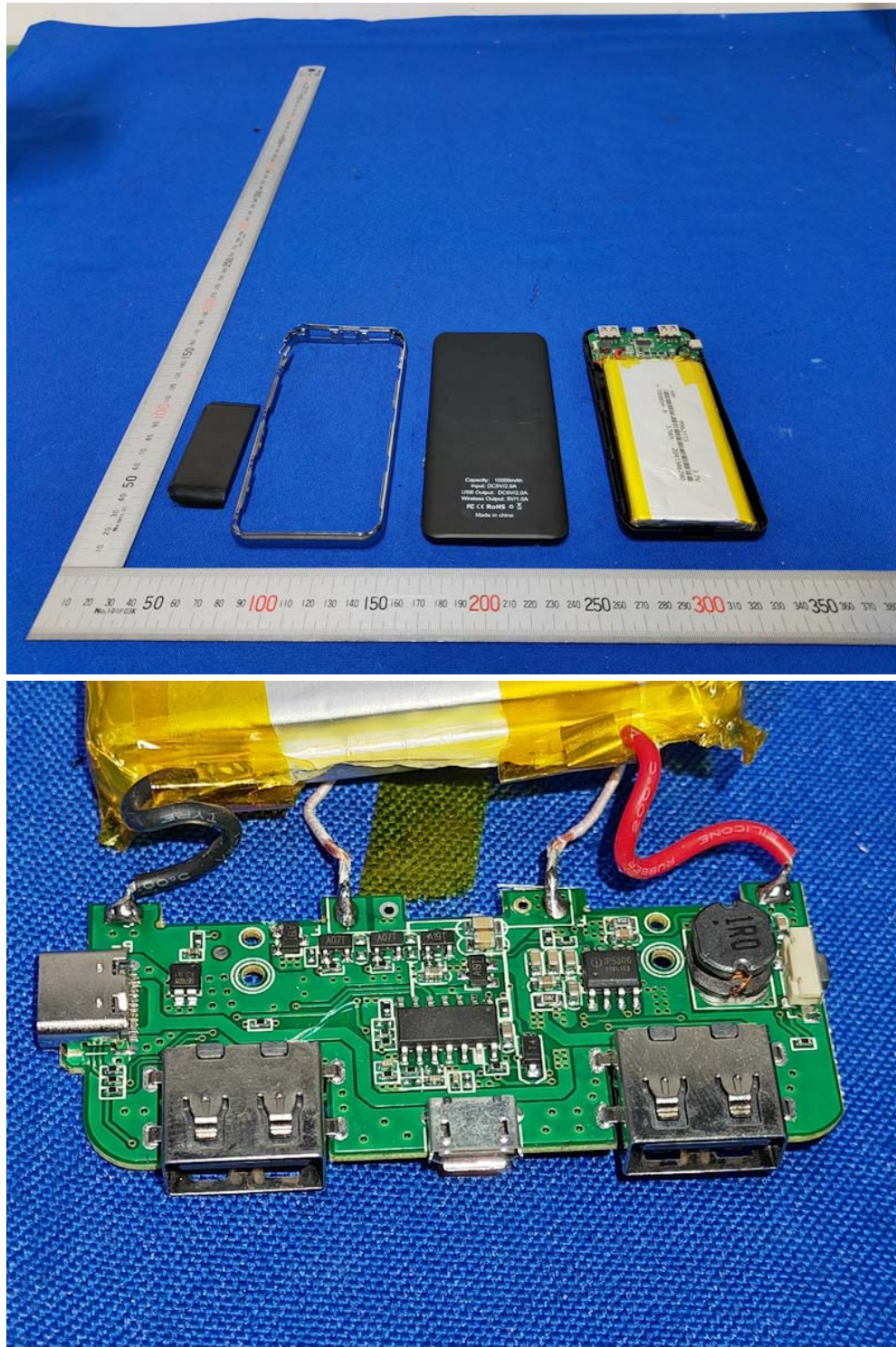
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Inside View



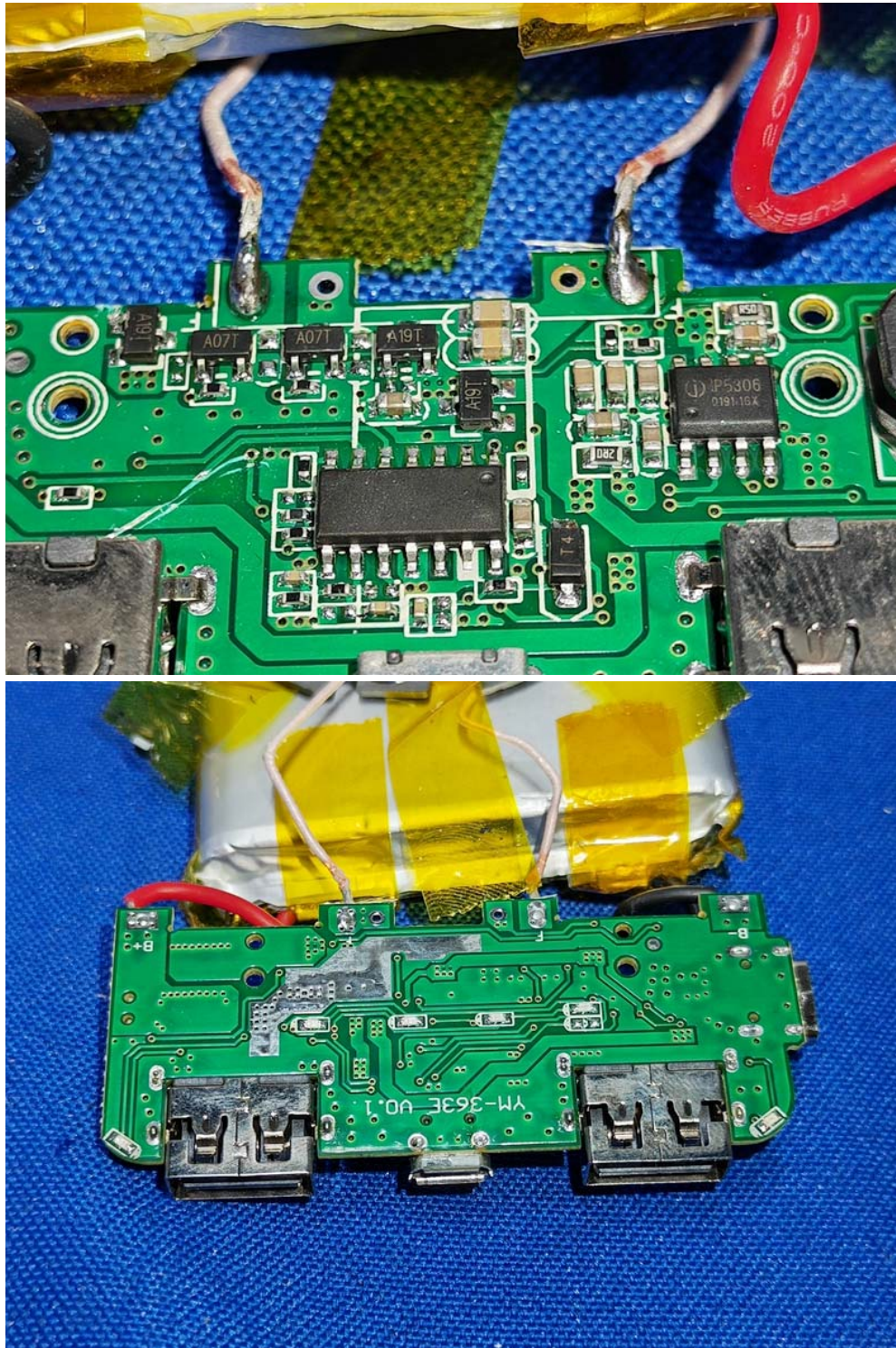
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Inside View



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Inside View



-End of the report-

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