



FCC TEST REPORT

FCC ID: 2AYD9-202012

| | | |
|---|---|------------------------|
| Product | : | PORTABLE POWER STATION |
| Model Name | : | XGH360/XGH720/XGH1000 |
| Brand | : | N/A |
| Report No. | : | PTC20080200341E-FC01 |
| Prepared for | | |
| Zhejiang Xingyu Mechanical & Electrical Technology Co., Ltd. | | |
| No.23 Wujin Ave,Tongqin,Wuyi County,Jinhua City,Zhejiang Province,China | | |
| Prepared by | | |
| Precise Testing & Certification Co., Ltd. | | |
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| | | |

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TEST REPORT DECLARATION

Applicant : Zhejiang Xingyu Mechanical & Electrical Technology Co., Ltd.
Address : No.23 Wujin Ave,Tongqin,Wuyi County,Jinhua City,Zhejiang Province,China
Manufacturer : Zhejiang Xingyu Mechanical & Electrical Technology Co., Ltd.
Address : No.23 Wujin Ave,Tongqin,Wuyi County,Jinhua City,Zhejiang Province,China
EUT Description : PORTABLE POWER STATION
Model No. : XGH360/XGH720/XGH1000
Trademark : N/A

Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart C Section 15.209

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

Leo Yang / Engineer

Technical Manager:

Chris Du / Manager

1. Test Result Summary

| Requirement | CFR 47 Section | Result |
|----------------------------------|----------------|--------|
| AC Power Line Conducted Emission | §15.207 | PASS |
| Spurious Emission | §15.209(a)(f) | PASS |
| Occupied Bandwidth | §15.215 (c) | PASS |
| Antenna requirement | §15.203 | PASS |

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

2. General Information

2.1. Description of Device (EUT)

| | | |
|----------------------|---|--|
| EUT Name | : | PORTABLE POWER STATION |
| Model No. | : | XGH360/XGH720/XGH1000 |
| DIFF. | : | The product size and battery capacity is different, the wireless charging module is the same, by prescan, the model XGH720 test data is worse, and the worse result is reported. |
| Trademark | : | N/A |
| Power supply | : | Input: AC100-120V,50/60Hz,1.2A Max Output: Wireless output: 5V=1A 9V=1.12A 9V=1.66A |
| Operation frequency | : | 115~200KHz |
| Modulation | : | MSK |
| Antenna Type | : | Coil Antenna, Maximum Gain is 0dBi(This value is supplied by applicant). |
| Connector cable loss | : | 0.5dB (This value is supplied by applicant). |
| Software version | : | V1.2 |
| Hardware version | : | V1.0 |

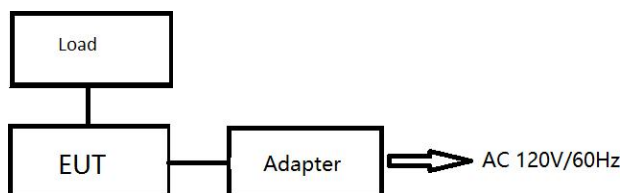
2.2. Accessories of Device (EUT)

| | | |
|--------------|---|---|
| Accessories1 | : | / |
| Manufacturer | : | / |
| Model | : | / |
| Ratings | : | / |

2.3. Tested Supporting System Details

| No. | Description | Manufacturer | Model | Serial Number | Certification or SDOC |
|-----|-------------|--------------|-------|---------------|-----------------------|
| 1 | Adapter | -- | -- | -- | -- |
| 2 | Load | -- | -- | -- | -- |

2.4. Block Diagram of connection between EUT and simulators



2.5. Description of Test Modes

| Channel | Frequency (KHz) |
|---------|-----------------|
| 1 | 132 |

2.6. Test Conditions

| Items | Required | Actual |
|--------------------|-----------|--------|
| Temperature range: | 15-35°C | 24°C |
| Humidity range: | 25-75% | 56% |
| Pressure range: | 86-106kPa | 98kPa |

2.7. Test Facility

Precise Testing & Certification Co., Ltd.

Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A-1

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

| Item | MU | Remark |
|--|----------------------|-------------|
| Uncertainty for Conducted Emission Test | 3.4dB | |
| Uncertainty for Radiation Emission test in 3m chamber (below 30MHz) | 2.8dB | Polarize: V |
| | 2.9dB | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz) | 3.8dB | Polarize: V |
| | 3.9dB | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz) | 4.54dB | Polarize: H |
| | 4.56dB | Polarize: V |
| Uncertainty for radio frequency | 5.4×10^{-8} | |
| Uncertainty for conducted RF Power | 0.37dB | |

2.9. Test Equipment List

RF Conducted Test

| Name of Equipment | Manufacturer | Model | Serial No. | Characteristics | Calibration Due |
|---------------------|--------------|--------|------------|-----------------|-----------------|
| MXG Signal Analyzer | Agilent | N9020A | MY56070279 | 10Hz-30GHz | Aug. 21, 2021 |
| Coaxial Cable | CDS | 79254 | 46107086 | 10Hz-30GHz | Aug. 21, 2021 |

Radiated Emissions Test

| Name of Equipment | Manufacturer | Model | Serial No. | Characteristics | Calibration Due |
|------------------------------|---------------|------------|--------------|-----------------|-----------------|
| EMI Test Receiver | Rohde&Schwarz | ESCI | 101417 | 9KHz-3GHz | Aug. 21, 2021 |
| Loop Antenna | Schwarzbeck | FMZB 1519 | 012 | 9 KHz -30MHz | Aug. 21, 2021 |
| Bilog Antenna | SCHWARZBECK | VULB9160 | 9160-3355 | 25MHz-2GHz | Aug. 21, 2021 |
| Preamplifier (low frequency) | SCHWARZBECK | BBV 9475 | 9745-0013 | 1MHz-1GHz | Aug. 21, 2021 |
| Cable | Schwarzbeck | PLF-100 | 549489 | 9KHz-3GHz | Aug. 21, 2021 |
| Spectrum Analyzer | Agilent | E4407B | MY45109572 | 9KHz-40GHz | Aug. 21, 2021 |
| Horn Antenna | SCHWARZBECK | 9120D | 9120D-1246 | 1GHz-18GHz | Aug. 21, 2021 |
| Power Amplifier | LUNAR EM | LNA1G18-40 | J10100000081 | 1GHz-26.5GHz | Aug. 21, 2021 |
| Cable | H+S | CBL-26 | N/A | 1GHz-26.5GHz | Aug. 21, 2021 |

Conducted Emissions Test

| Name of Equipment | Manufacturer | Model | Serial No. | Characteristics | Calibration Due |
|--------------------------|---------------|--------|------------|-----------------|-----------------|
| EMI Test Receiver | Rohde&Schwarz | ESCI | 101417 | 9KHz-3GHz | Aug. 21, 2021 |
| Artificial Mains Network | Rohde&Schwarz | L2-16B | 000WX31025 | 9KHz-300MHz | Aug. 21, 2021 |
| Artificial Mains Network | Rohde&Schwarz | ENV216 | 101342 | 9KHz-300MHz | Aug. 21, 2021 |

| Software Information | | | |
|----------------------|---------------|--------------|------------|
| Test Item | Software Name | Manufacturer | Version |
| RE | e3 | Emtek | e3/1.0.0.0 |
| CE | e3 | Emtek | e3/1.0.0.0 |
| RF-CE | MTS 8310 | MW | V2.0.0.0 |

3. Test Results and Measurement Data

3.1. Conducted Emission

3.1.1. Test Specification

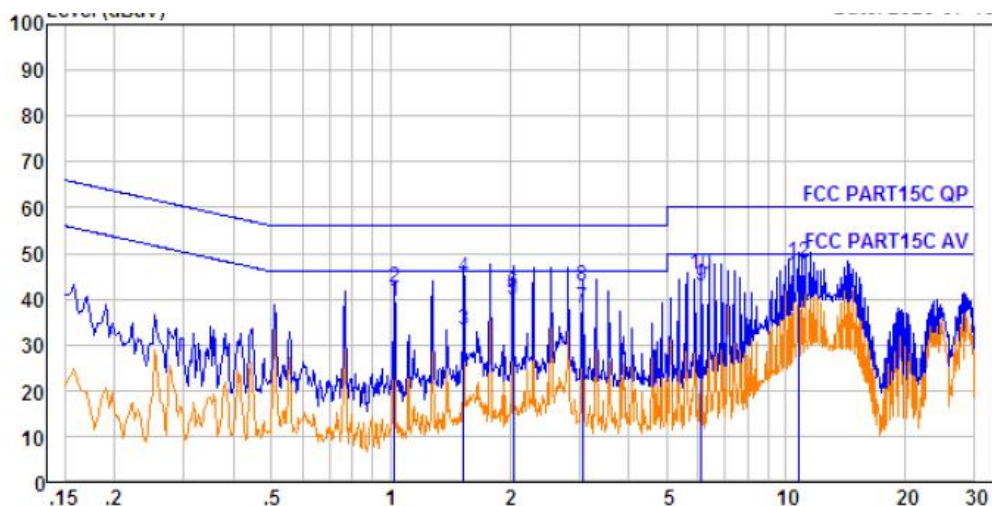
| Test Requirement: | FCC Part15 C Section 15.207 | | | | | | | | | | | | | | |
|-----------------------|---|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method: | ANSI C63.10:2013 | | | | | | | | | | | | | | |
| Frequency Range: | 150 kHz to 30 MHz | | | | | | | | | | | | | | |
| Receiver setup: | RBW=9 kHz, VBW=30 kHz, Sweep time=auto | | | | | | | | | | | | | | |
| Limits: | <table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> | Frequency range (MHz) | Limit (dBuV) | | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBuV) | | | | | | | | | | | | | | |
| | Quasi-peak | Average | | | | | | | | | | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | | | | | | | | | |
| 0.5-5 | 56 | 46 | | | | | | | | | | | | | |
| 5-30 | 60 | 50 | | | | | | | | | | | | | |
| Test Setup: | <div><p>Reference Plane</p><p>40cm</p><p>80cm</p><p>E.U.T</p><p>Adapter</p><p>LISN</p><p>Filter</p><p>AC power</p><p>EMI Receiver</p><p>Test table/Insulation plane</p><p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div> | | | | | | | | | | | | | | |
| Test Mode: | Transmitting Mode | | | | | | | | | | | | | | |
| Test Procedure: | <div><div>1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</div></div> | | | | | | | | | | | | | | |
| Test Result: | PASS | | | | | | | | | | | | | | |

3.1.2. Test data

Please refer to following diagram for individual

| | |
|--------------|---|
| Test Mode | : Full Load(15W), Half Load(7.5W), Empty Load |
| Test Results | : PASS |
| Note: | <p>The test results are listed in next pages.</p> <p>All test modes has been tested, this report only reflected the worst mode.</p> <p>If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.</p> <p>If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p> |

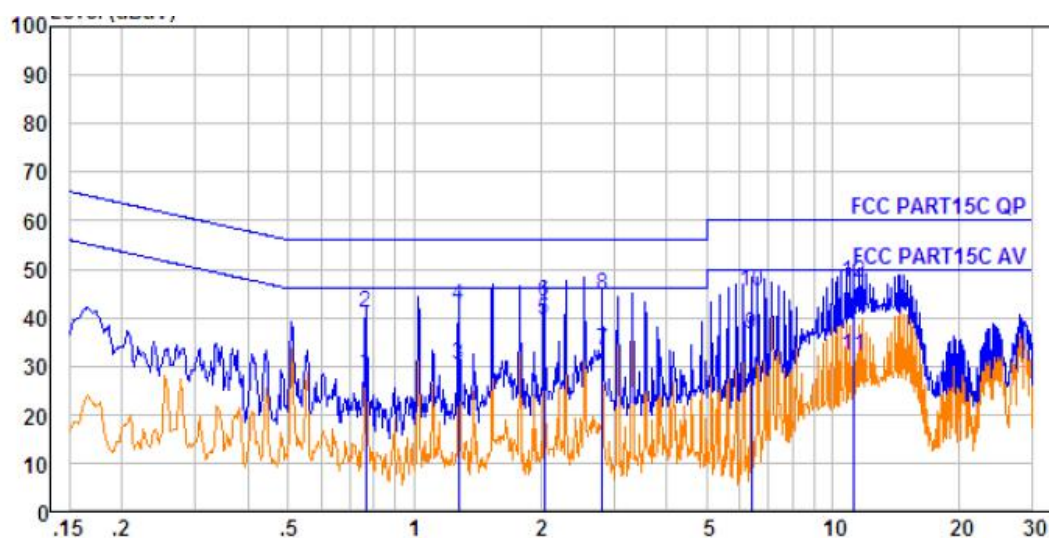
| | | | |
|------------------------|------------------------|------------------|----------------|
| EUT Description | PORTABLE POWER STATION | Model No. | XGH720 |
| Temperature | 24℃ | Humidity | 56% |
| Pol | Line | Test mode | Full Load(15W) |
| Test Voltage | AC 120V/60Hz | | |



| No. | Freq MHz | Cable Loss dB | AMN Factor dB | Receiver Reading dBuV | Emission Level dBuV | Limit dBuV | Over Limit dB | Remark |
|-----|-------------|---------------------|---------------------|-----------------------------|---------------------------|---------------|---------------------|---------|
| 1. | 1.021 | 0.46 | 9.61 | 29.45 | 39.52 | 46.00 | -6.48 | Average |
| 2. | 1.021 | 0.46 | 9.61 | 32.26 | 42.33 | 56.00 | -13.67 | QP |
| 3. | 1.527 | 0.47 | 9.61 | 23.19 | 33.27 | 46.00 | -12.73 | Average |
| 4. | 1.527 | 0.47 | 9.61 | 34.61 | 44.69 | 56.00 | -11.31 | QP |
| 5. | 2.040 | 0.47 | 9.61 | 29.70 | 39.78 | 46.00 | -6.22 | Average |
| 6. | 2.040 | 0.47 | 9.61 | 31.30 | 41.38 | 56.00 | -14.62 | QP |
| 7. | 3.058 | 0.47 | 9.63 | 28.08 | 38.18 | 46.00 | -7.82 | Average |
| 8. | 3.058 | 0.47 | 9.63 | 32.73 | 42.83 | 56.00 | -13.17 | QP |
| 9. | 6.121 | 0.53 | 9.71 | 32.50 | 42.74 | 50.00 | -7.26 | Average |
| 10. | 6.121 | 0.53 | 9.71 | 35.27 | 45.51 | 60.00 | -14.49 | QP |
| 11. | 10.733 | 0.56 | 9.77 | 34.86 | 45.19 | 50.00 | -4.81 | Average |
| 12. | 10.733 | 0.56 | 9.77 | 37.62 | 47.95 | 60.00 | -12.05 | QP |

Pol

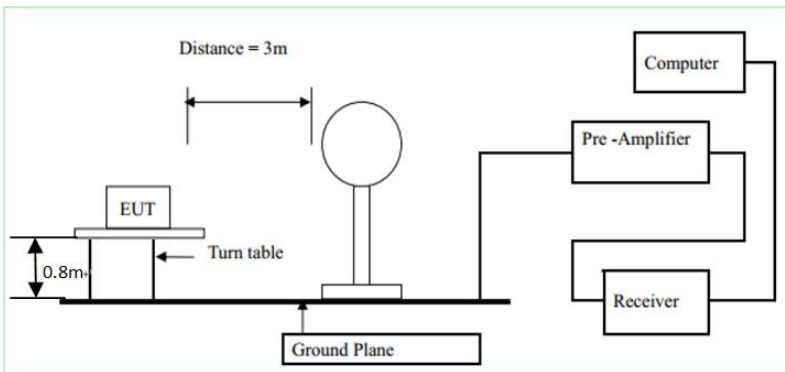
Neutral

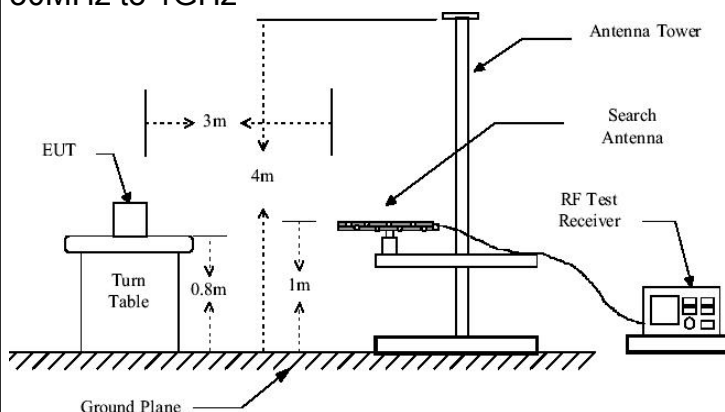
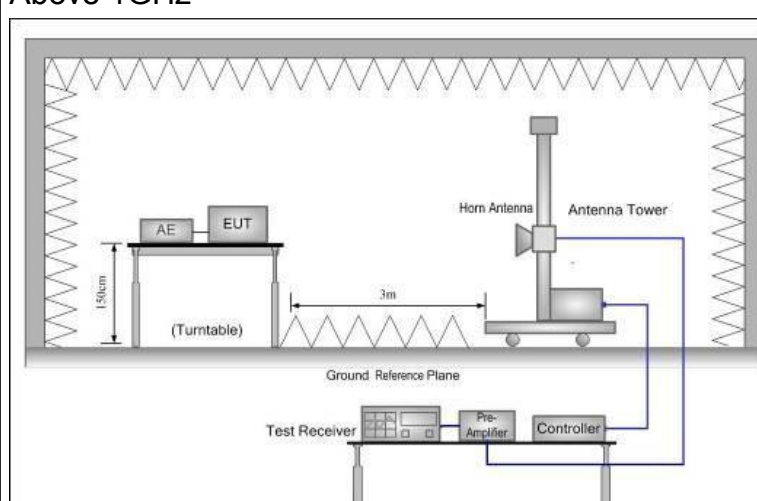


| No. | Freq MHz | Cable Loss dB | AMN Factor dB | Receiver Reading dBuV | Emission Level dBuV | Limit dBuV | Over Limit dB | Remark |
|-----|-------------|---------------------|---------------------|-----------------------------|---------------------------|---------------|---------------------|---------|
| 1. | 0.767 | 0.45 | 9.64 | 18.49 | 28.58 | 46.00 | -17.42 | Average |
| 2. | 0.767 | 0.45 | 9.64 | 31.01 | 41.10 | 56.00 | -14.90 | QP |
| 3. | 1.276 | 0.46 | 9.64 | 20.21 | 30.31 | 46.00 | -15.69 | Average |
| 4. | 1.276 | 0.46 | 9.64 | 32.39 | 42.49 | 56.00 | -13.51 | QP |
| 5. | 2.040 | 0.47 | 9.64 | 29.50 | 39.61 | 46.00 | -6.39 | Average |
| 6. | 2.040 | 0.47 | 9.64 | 32.90 | 43.01 | 56.00 | -12.99 | QP |
| 7. | 2.809 | 0.47 | 9.66 | 23.05 | 33.18 | 46.00 | -12.82 | Average |
| 8. | 2.809 | 0.47 | 9.66 | 34.36 | 44.49 | 56.00 | -11.51 | QP |
| 9. | 6.386 | 0.54 | 9.74 | 26.15 | 36.43 | 50.00 | -13.57 | Average |
| 10. | 6.386 | 0.54 | 9.74 | 35.06 | 45.34 | 60.00 | -14.66 | QP |
| 11. | 11.250 | 0.56 | 9.82 | 21.90 | 32.28 | 50.00 | -17.72 | Average |
| 12. | 11.250 | 0.56 | 9.82 | 36.71 | 47.09 | 60.00 | -12.91 | QP |

3.2. Radiated Spurious Emission Measurement

3.2.1. Test Specification

| | | | | | |
|--|-----------------------------|------------------------------------|--------------------------------------|-------------------------------------|----------------------------------|
| Test Requirement: | FCC Part15 C Section 15.209 | | | | |
| Test Method: | ANSI C63.10: 2013 | | | | |
| Frequency Range: | 9 kHz to 25 GHz | | | | |
| Measurement Distance: | 3 m | | | | |
| Antenna Polarization: | Horizontal & Vertical | | | | |
| Operation mode: | Refer to item 4.1 | | | | |
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark |
| | 9kHz- 150kHz | Quasi-peak | 200Hz | 1kHz | Quasi-peak Value |
| | 150kHz- 30MHz | Quasi-peak | 9kHz | 30kHz | Quasi-peak Value |
| | 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| | | Peak | 1MHz | 10Hz | Average Value |
| Limit: | Frequency | | Field Strength (microvolts/meter) | | Measurement Distance (meters) |
| | 0.009-0.490 | | 2400/F(KHz) | | 300 |
| | 0.490-1.705 | | 24000/F(KHz) | | 30 |
| | 1.705-30 | | 30 | | 30 |
| | 30-88 | | 100 | | 3 |
| | 88-216 | | 150 | | 3 |
| | 216-960 | | 200 | | 3 |
| | Above 960 | | 500 | | 3 |
| | Frequency | | Field Strength (microvolts/meter) | Measurement Distance (meters) | Detector |
| | Above 1GHz | 500 | 3 | Average | |
| | | 5000 | 3 | Peak | |
| | Test setup: | For radiated emissions below 30MHz | | | |
|  | | | | | |

Test setup:**30MHz to 1GHz****Above 1GHz****Test Procedure:**

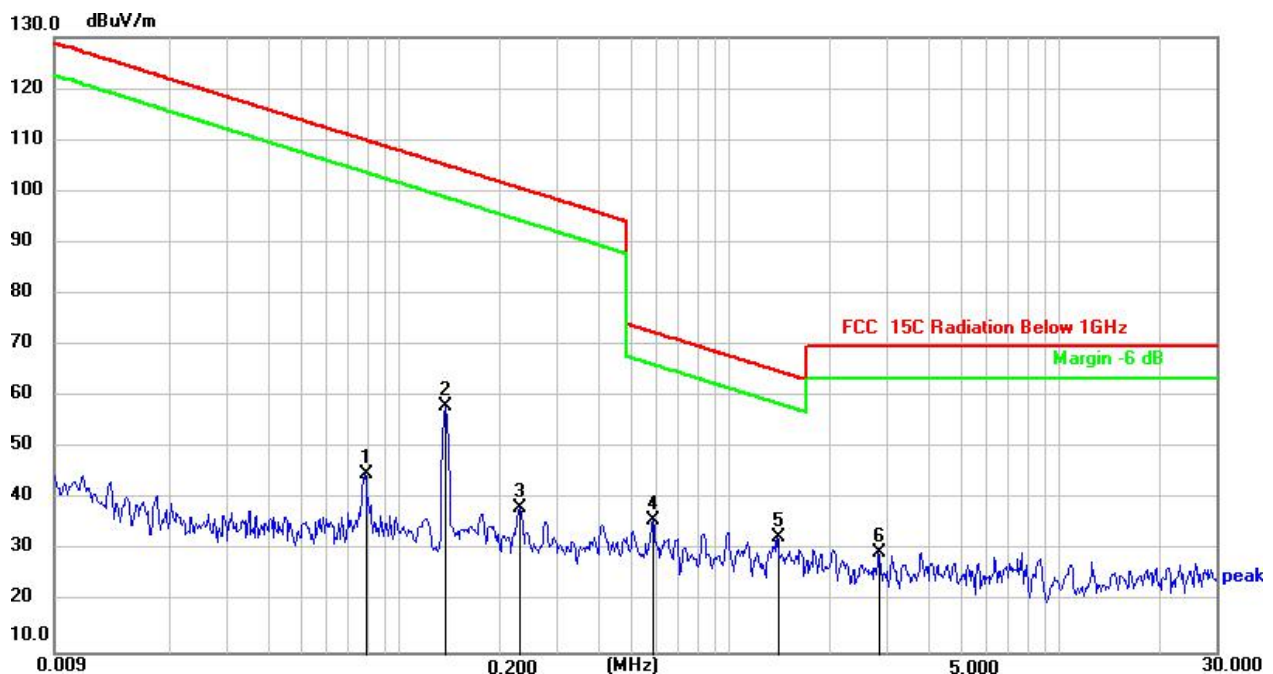
1. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
- For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which

| | |
|----------------------|--|
| | <p>maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <ol style="list-style-type: none"> 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: <ol style="list-style-type: none"> (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p> |
| Test mode: | Refer to section 4.1 for details |
| Test results: | PASS |

3.2.2. Test Data

Please refer to following diagram for individual

| | |
|---|-------------------------------|
| Frequency Range | : 9KHz~30MHz |
| Test Mode | : TX: 132KHz, Full Load (15W) |
| Test Results | : PASS |
| Note: 1. The test results are listed in next pages. 2. This mode is worst case mode, so this report only reflected the worst mode. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out. | |



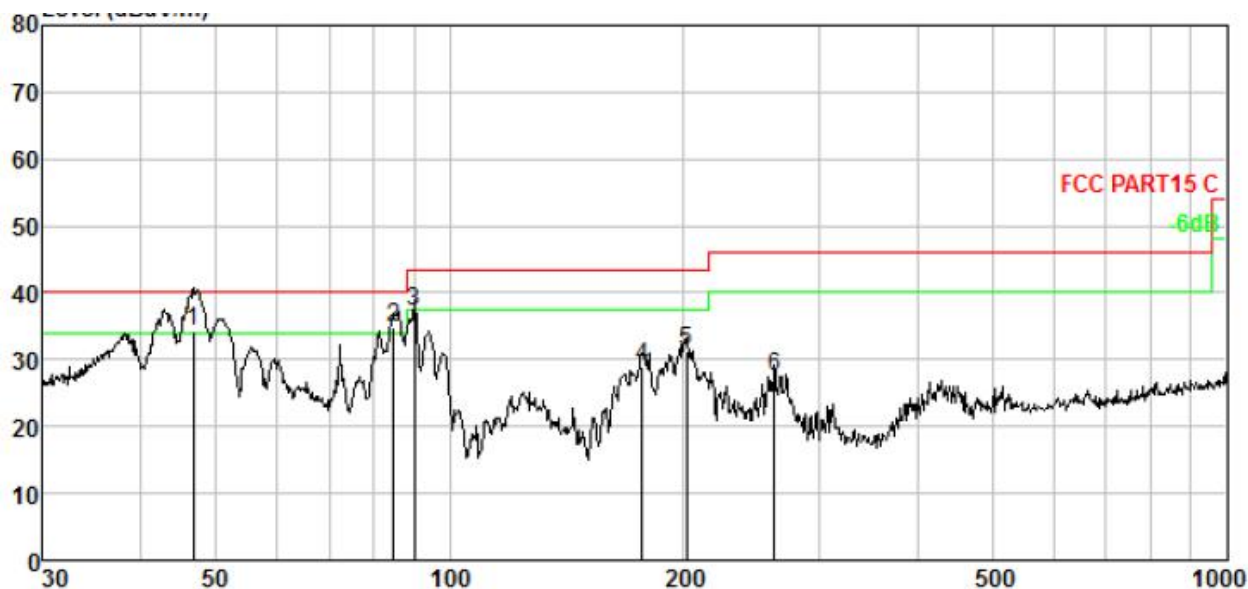
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0785 | 24.37 | 20.60 | 44.97 | 109.71 | -64.74 | peak |
| 2 | 0.1374 | 38.13 | 20.11 | 58.24 | 104.84 | -46.60 | peak |
| 3 | 0.2309 | 18.11 | 20.17 | 38.28 | 100.34 | -62.06 | peak |
| 4 | 0.5868 | 15.51 | 20.38 | 35.89 | 72.24 | -36.35 | peak |
| 5 * | 1.3979 | 12.14 | 20.50 | 32.64 | 64.72 | -32.08 | peak |
| 6 | 2.8312 | 9.40 | 20.25 | 29.65 | 69.50 | -39.85 | peak |

| | |
|--|------------------|
| Frequency Range | : 30MHz~1000MHz |
| Test Mode | : Full Load(15W) |
| Test Results | : PASS |
| Note: 1. The test results are listed in next pages. 2. All test modes has been tested, this report only reflected the worst mode. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out. | |

| | | |
|---|--------------|-----------------|
| Frequency Range | : Above 1GHz | |
| EUT | : / | Test Date : / |
| M/N | : / | Temperature : / |
| Test Engineer | : / | Humidity : / |
| Test Mode | : / | |
| Test Results | : N/A | |
| Note: 1. The highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. So the frequency rang above 1GHz radiation test not applicable. | | |

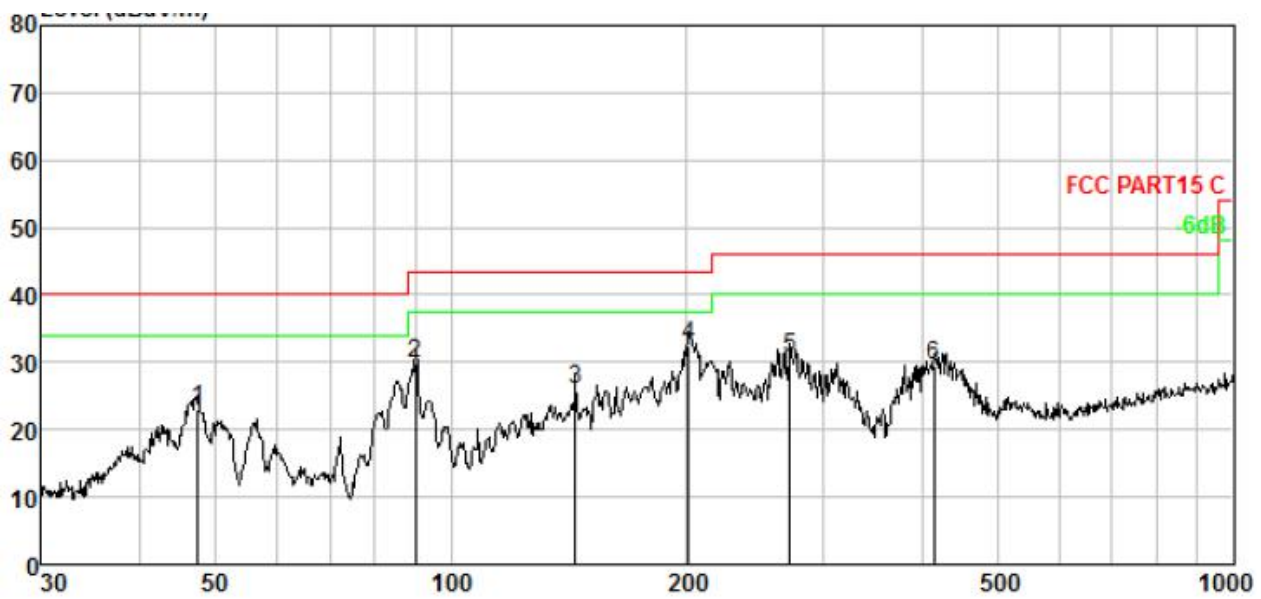
30MHz-1GHz

| | | | |
|------------------------|------------------------|------------------|----------------|
| EUT Description | PORTABLE POWER STATION | Model No. | XGH720 |
| Temperature | 24°C | Humidity | 56% |
| Pol | Vertical | Test mode | Full Load(15W) |
| Test Voltage | AC 120V/60Hz | | |



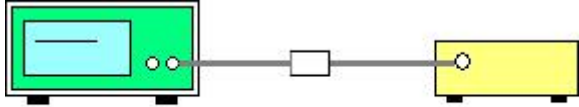
| No. | Freq MHz | Cable Loss dB | ANT Factor dB/m | Receiver Reading dBuV | Preamp Factor dB | Emission Level dBuV/m | Limit dBuV/m | Over Limit dB | Remark |
|-----|-------------|---------------------|-----------------------|-----------------------------|------------------------|-----------------------------|-----------------|---------------------|--------|
| 1. | 46.830 | 1.97 | 12.22 | 49.91 | 29.92 | 34.18 | 40.00 | -5.82 | QP |
| 2. | 84.702 | 2.99 | 8.72 | 53.05 | 29.97 | 34.79 | 40.00 | -5.21 | QP |
| 3. | 90.220 | 3.09 | 9.20 | 54.79 | 29.98 | 37.10 | 43.50 | -6.40 | QP |
| 4. | 176.888 | 4.25 | 12.74 | 42.09 | 30.03 | 29.05 | 43.50 | -14.45 | QP |
| 5. | 202.100 | 4.48 | 11.07 | 45.93 | 30.05 | 31.43 | 43.50 | -12.07 | QP |
| 6. | 261.975 | 4.93 | 12.68 | 39.95 | 30.23 | 27.33 | 46.00 | -18.67 | QP |

| | |
|-----|------------|
| Pol | Horizontal |
|-----|------------|



| No. | Freq MHz | Cable Loss dB | ANT Factor dB/m | Receiver Reading dBuV | Preamp Factor dB | Emission Level dBuV/m | Limit dBuV/m | Over Limit dB | Remark |
|-----|----------|---------------|-----------------|-----------------------|------------------|-----------------------|--------------|---------------|--------|
| 1. | 47.492 | 1.99 | 12.20 | 38.83 | 29.92 | 23.10 | 40.00 | -16.90 | QP |
| 2. | 90.220 | 3.09 | 9.20 | 47.46 | 29.98 | 29.77 | 43.50 | -13.73 | QP |
| 3. | 144.335 | 3.90 | 13.48 | 38.70 | 30.02 | 26.06 | 43.50 | -17.44 | QP |
| 4. | 201.393 | 4.47 | 11.05 | 46.98 | 30.04 | 32.46 | 43.50 | -11.04 | QP |
| 5. | 271.325 | 4.99 | 12.81 | 43.24 | 30.25 | 30.79 | 46.00 | -15.21 | QP |
| 6. | 414.722 | 5.72 | 15.14 | 39.28 | 30.73 | 29.41 | 46.00 | -16.59 | QP |

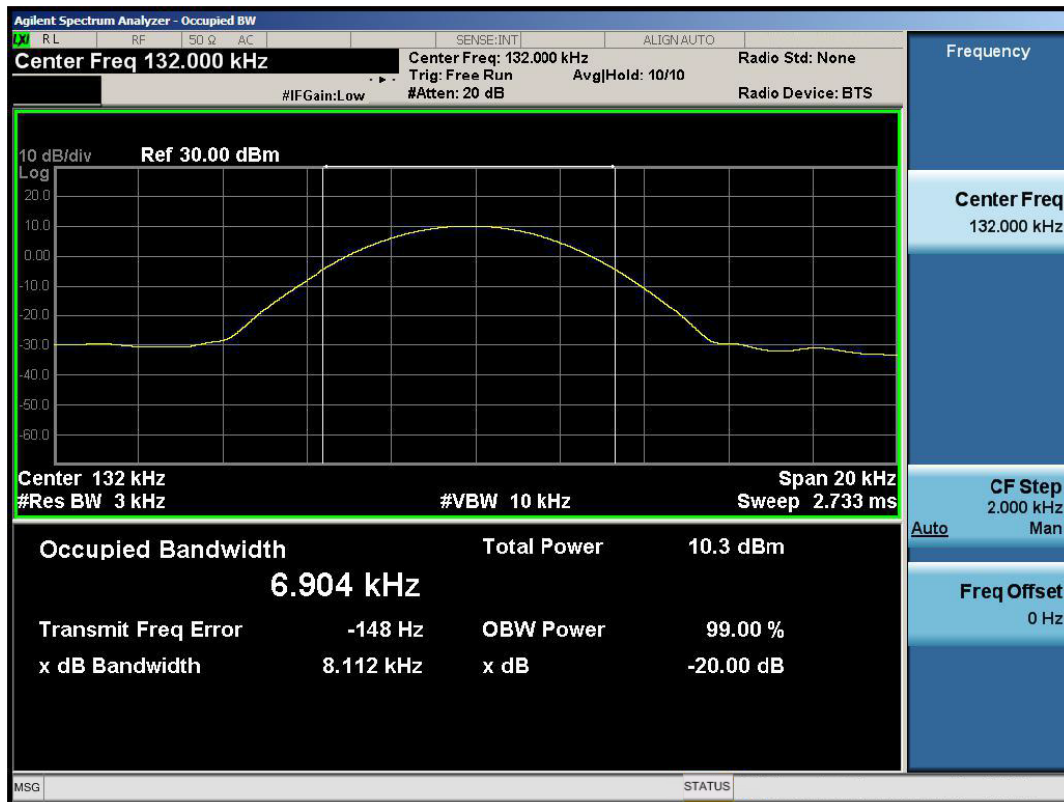
3.3. Test Specification

| | |
|--------------------------|---|
| Test Requirement: | FCC Part15 C Section 15.215(c) |
| Test Method: | ANSI C63.10: 2013 |
| Limit: | N/A |
| Test Procedure: | <ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; $RBW \geq 1\%$ of the 20 dB bandwidth; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report. |
| Test setup: |  <p>The diagram illustrates the test setup. On the left is a green Spectrum Analyzer with a blue screen. A black cable connects it to a yellow rectangular box on the right, which is labeled 'EUT'. A small white square is located on the cable between the two devices.</p> |
| Test Mode: | Refer to section 4.1 for details |
| Test results: | PASS |

3.3.1. Test data

| Frequency(kHz) | 20dB Occupy Bandwidth (kHz) | Limit (kHz) | Conclusion |
|----------------|-----------------------------|-------------|------------|
| 132 | 8.112 | --- | PASS |

Test plots as follows:



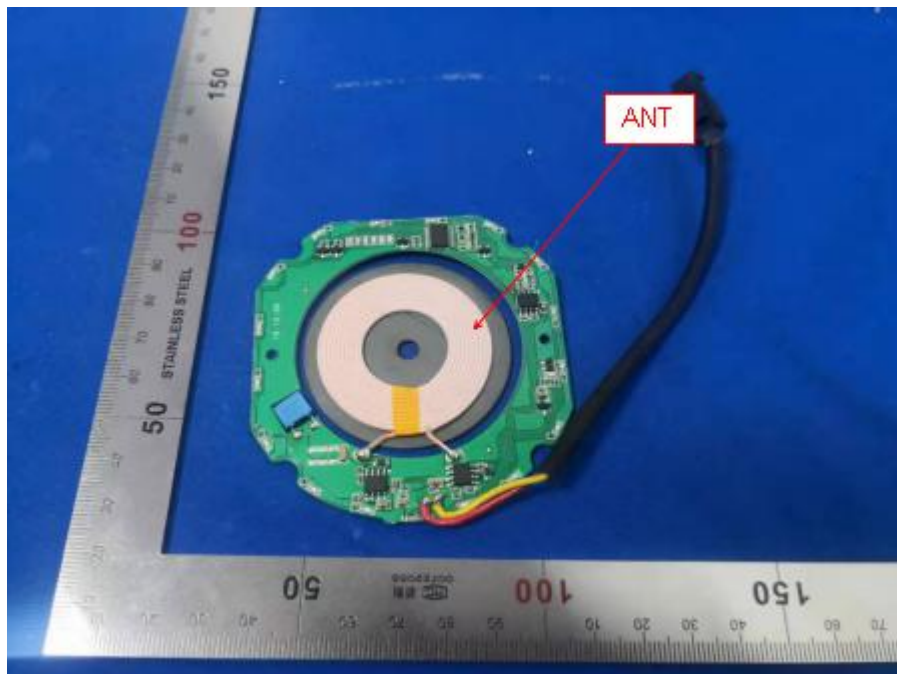
4. Antenna Requirement

4.1 Test Standard and Requirement

| | |
|---------------|--|
| Test Standard | FCC Part15 Section 15.203 |
| Requirement | 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, 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. |

4.2 Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.



5. Photos of test setup

Radiated Emission



Conducted Emission



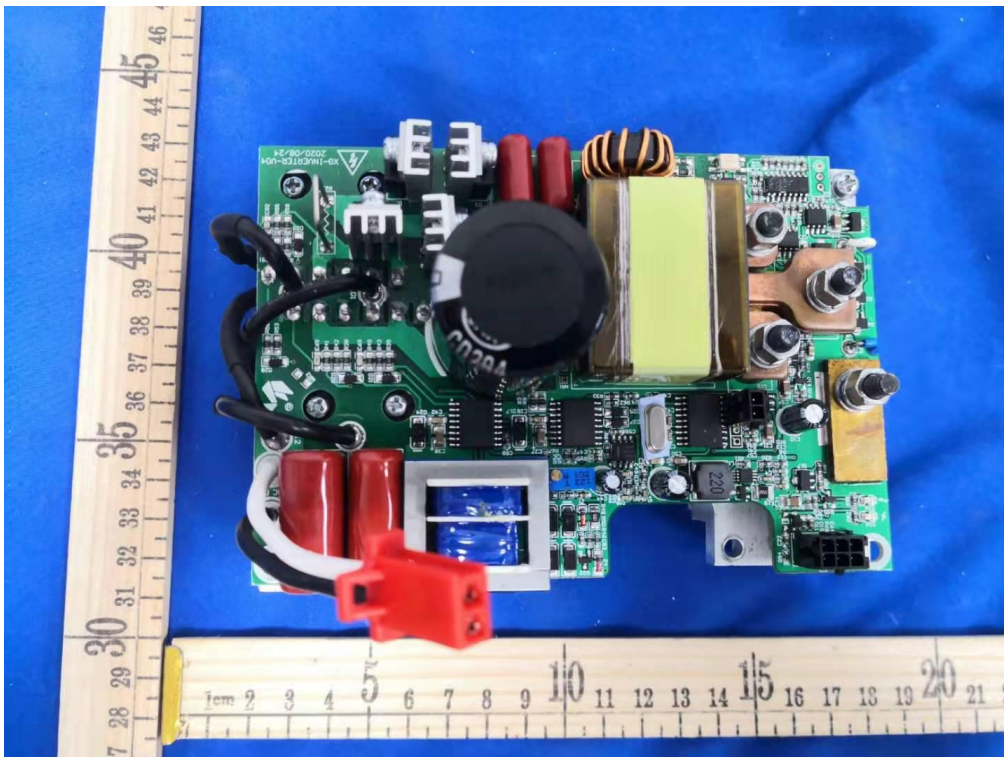
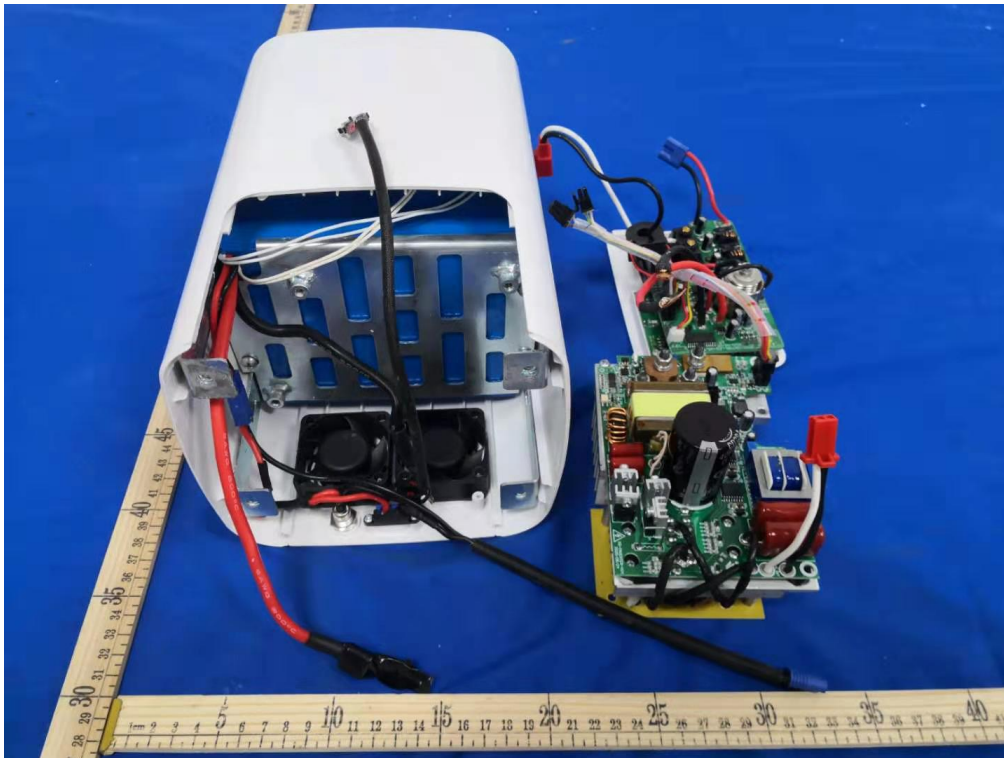
6. Photographs of EUT

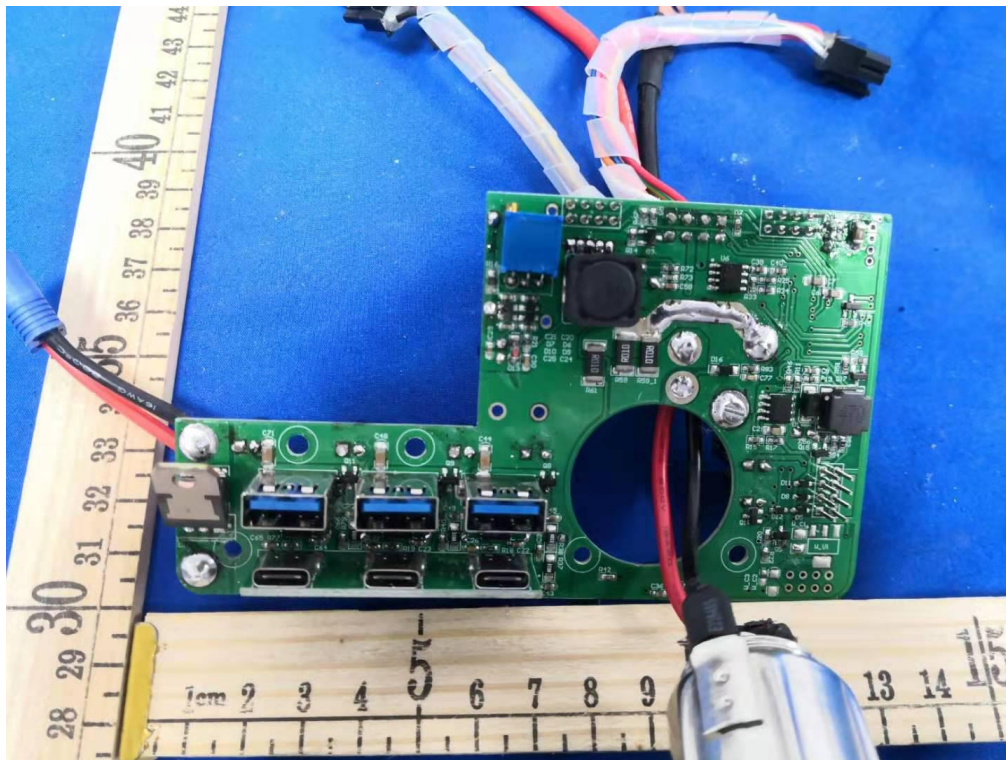
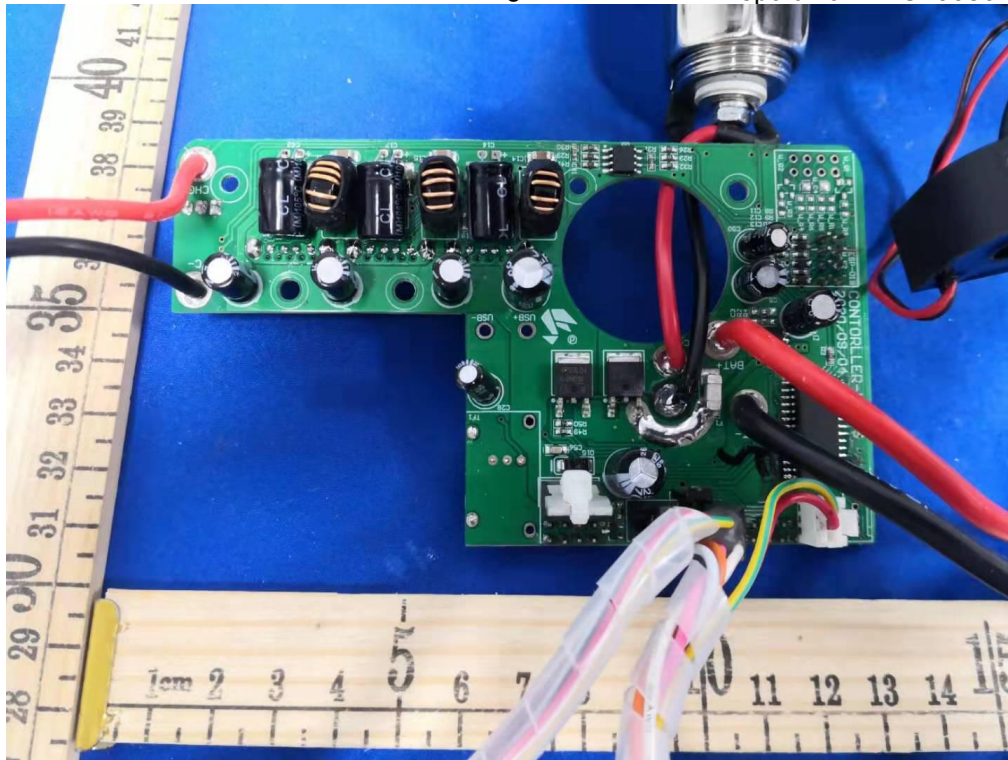


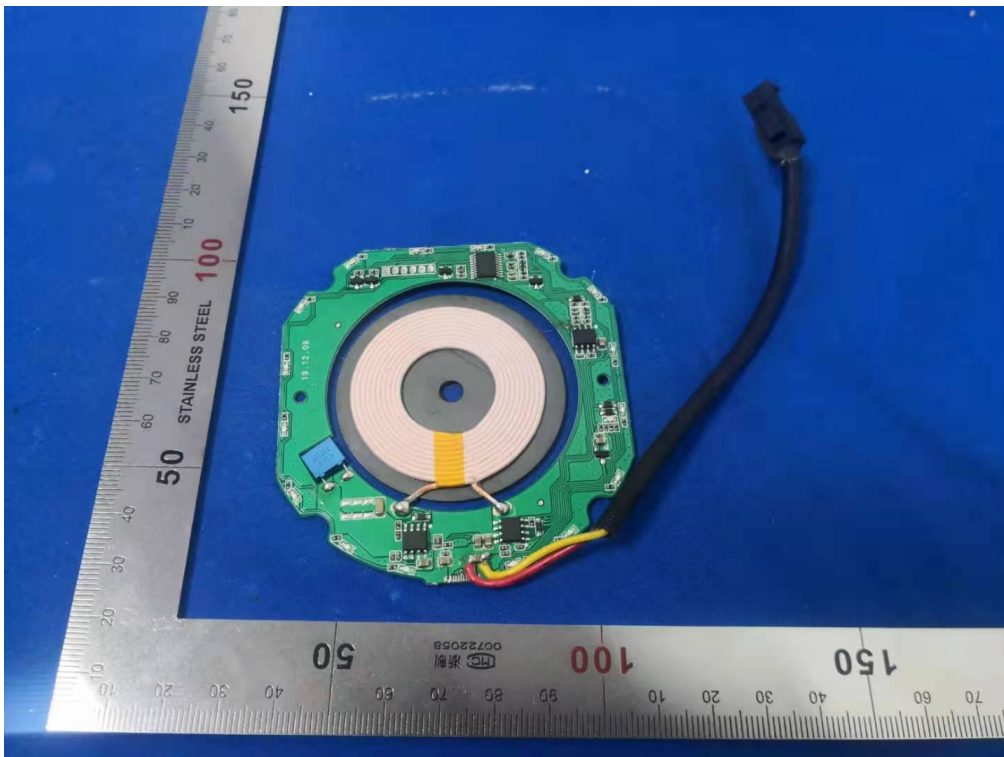


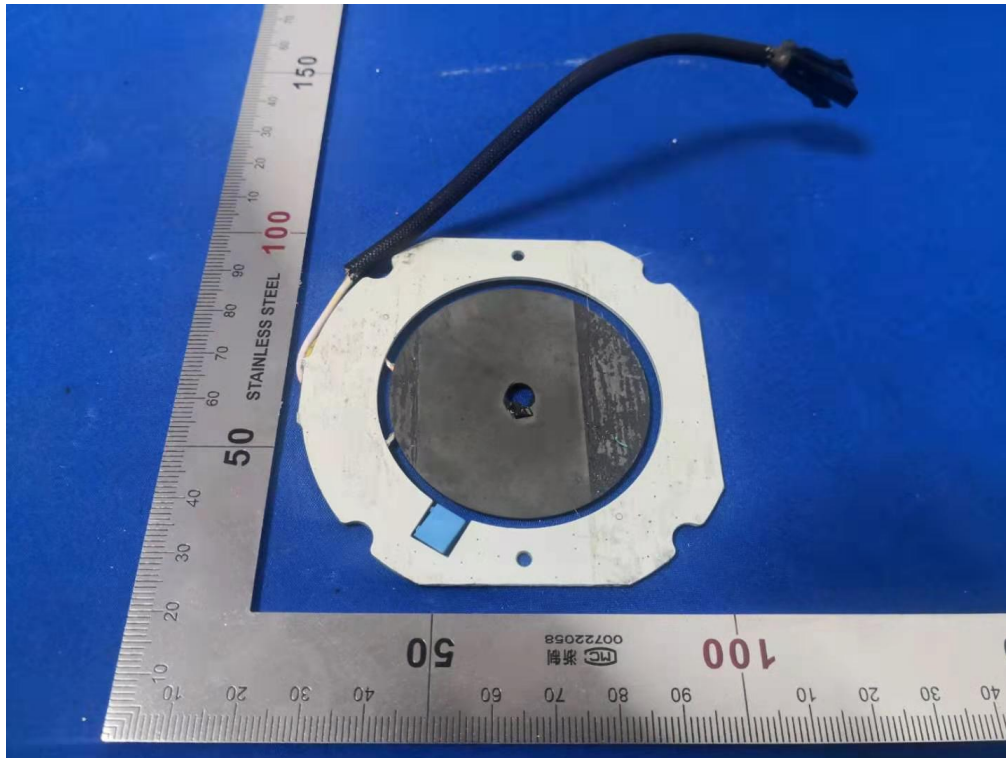












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