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FCC TEST REPORT

Client Name : Shenzhen Lingyi Innovation Tech Co., Ltd.

Address 12 F, Block C, Central Avenue Building, Xixiang BLVD

West, Baoan District, Shenzhen, China

Product Name : Wireless charger

Date : Nov. 08, 2019

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Shenzhen Lingyi Innovation Tech Co., Ltd.

Manufacturer : Shenzhen Lingyi Innovation Tech Co., Ltd.

Product Name : Wireless charger

Model No. : AT1004C, AT1004L

Trade Mark : N.A.

Input: DC 15V, 3.5A

Wireless Output: 5W/7.5W/10W

Rating(s) : Apple Watch Output: 5W

Type C Output: DC 5V, 3A, DC 9V, 2A, DC 12V, 1.5A

Test Standard(s) : FCC Part15 Subpart C 2018, Paragraph 15.209

Test Method(s) : ANSI C63.10: 2013

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt
Date of Test
Sept. 02, 2019
Sept. 02~Oct. 31, 2019

Prepared By

Reviewer

(Engineer / Dolly Mo)

Sept. 02 Approved*

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

(Manager / Sally Zhang)

Shenzhen Anbotek Compliance Laboratory Limited





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1. General Information

1.1. Client Information

| Applicant | : | Shenzhen Lingyi Innovation Tech Co., Ltd. |
|--------------|---|--|
| Address | : | 12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan District, Shenzhen, China |
| Manufacturer | : | Shenzhen Lingyi Innovation Tech Co., Ltd. |
| Address | : | 12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan District, Shenzhen, China |
| Factory | : | Shenzhen Lingyi Innovation Tech Co., Ltd. |
| Address | : | 12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan District, Shenzhen, China |

1.2. Description of Device (EUT)

| Product Name | : | Wireless charger | Anborek Anborek Anborek |
|-------------------|---|---|--|
| Model No. | : | AT1004C, AT1004L (Note: All samples are the "AT1004C" for test only.) | same except the appearance, so we prepare |
| Trade Mark | : | N.A. | abotek Anbotek Anbotek |
| Test Power Supply | : | AC 120V, 60Hz for adapte | er spotek Anbotek Anbotek |
| Test Sample No. | : | 1-2-1(Normal Sample), 1- | 2-1(Engineering Sample) |
| | | Operation Frequency: | Conventional wireless charging: 110.1-205KHz Apple Watch wireless charging: 550KHz |
| Product | : | Modulation Type: | QI Annotek Anborek Anbo |
| Description | | Antenna Type: | Inductive loop coil Antenna |
| | | Antenna Gain(Peak): | 0 dBi |

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

| Adapter | Model: A653-1503500I | Aupo. | hotek | Anbore |
|---------|-------------------------------|-------|-------|------------------|
| | Input: 100-240V ~50-60Hz 1.5A | | | nbote |
| | Output: 15V == 3500mA | | | , v ₀ |

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1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| | Pretest Mode | Description | | | | |
|----|--------------|-------------|------------------------------|------|---------|--|
| P, | Mode 1 | Anbore | Full load, Wireless charging | otek | Anborek | |

| | For Conducted Emission | |
|-----------------|------------------------------|------|
| Final Test Mode | Description | |
| Mode 1 | Full load, Wireless charging | Anbo |

| For Radiated Emission | | | | | |
|-----------------------|------------------------------|--|--|--|--|
| Final Test Mode | Description | | | | |
| Mode 1 | Full load, Wireless charging | | | | |

Note: (1) Test channel of Conventional wireless charger is 0.1740MHz; Apple Watch wireless charger: 550KHz

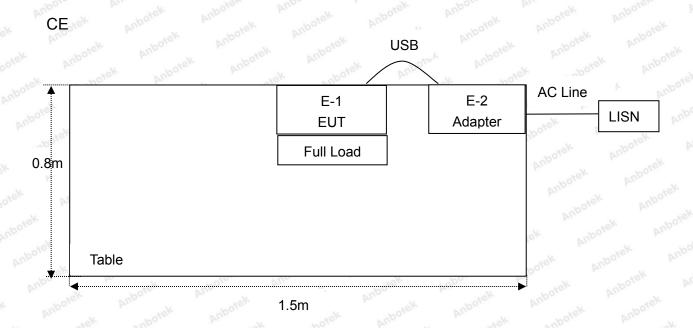
- (2) All the situation (full load, half load and empty load) has been tested, only the worst situation (full load) was recorded in the report.
- (3) All modes of Conventional wireless charger, Apple Watch wireless charger, Type C have been tested, only worst case reported in the report.



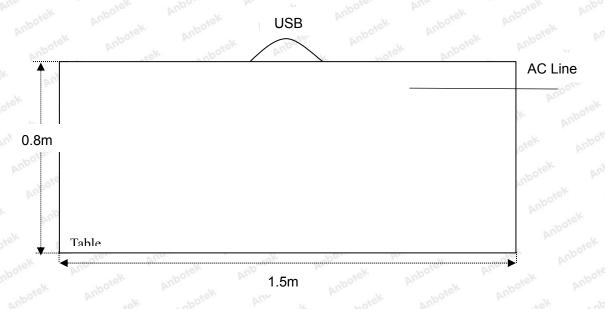
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1.5. Description Of Test Setup



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1.6. Test Equipment List

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. | |
|---|--|-------------------------|-------------------|------------------------|---------------|--------|--|
| L.I.S.N. 1. Artificial Mains R Network | | Rohde & Schwarz | ENV216 | 100055 | Nov. 26, 2018 | 1 Year | |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESPI3 | 101604 | Nov. 05, 2018 | 1 Year | |
| 3. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Nov. 05, 2018 | 1 Year | |
| 4. | Spectrum Analysis | Agilent | E4407B | US39390582 | Nov. 05, 2018 | 1 Year | |
| 5. | MAX Spectrum Analysis | Agilent | N9020A | MY51170037 | Nov. 05, 2018 | 1 Year | |
| 6. | Preamplifier | SKET Electronic | BK1G18G30 D | KD17503 | Nov. 05, 2018 | 1 Year | |
| An Zotel | Double Ridged Horn Antenna | Instruments corporation | GTH-0118 | 351600 | Nov. 19, 2018 | 1 Year | |
| 8. | Bilog Broadband Schwarzbeck | | VULB9163 | VULB9163 VULB 9163-289 | | 1 Year | |
| × 9. | Loop Antenna | Schwarzbeck | FMZB1519B | 00053 | Nov. 19, 2018 | 1 Year | |
| 10. | . Horn Antenna A-INFO | | LB-180400-K F | J211060628 | Nov. 20, 2018 | 1 Year | |
| 11. | Pre-amplifier | SONOMA | 310N | 186860 | Nov. 05, 2018 | 1 Year | |
| 12. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A | |
| 13. | RF Test Control System | YIHENG | YH3000 | 2017430 | Nov. 05, 2018 | 1 Year | |
| 14. | Power Sensor | DAER | RPR3006W | 15I00041SN045 | Nov. 05, 2018 | 1 Year | |
| 15. | Power Sensor | DAER | RPR3006W | 15I00041SN046 | Nov. 05, 2018 | 1 Year | |
| 16. | MXA Spectrum Analysis | Agilent | N9020A | All Moter Anboter | | 1 Year | |
| 17. | MXG RF Vector Signal Generator Agilent | | N5182A MY48180656 | | Nov. 05, 2018 | 1 Year | |
| 18. | Signal Generator | Agilent | E4421B | MY41000743 | Nov. 05, 2018 | 1 Year | |
| 19. | DC Power Supply | LW | TPR-6420D | 374470 | Nov. 04, 2019 | 1 Year | |
| 20. | Constant | | ZJ-KHWS80 B | N/A | Nov. 04, 2019 | 1 Year | |



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1.7. Measurement Uncertainty

| Radiation Uncertainty | : | Ur = 3.9 dB (Horizontal) | 14 |
|------------------------|---|-------------------------------|-------|
| | | Ur = 3.8 dB (Vertical) | otek |
| | | ootek Anbot Anbotek Anbote An | Anbo, |
| Conduction Uncertainty | : | Uc = 3.4 dB | Ar |

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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. 184111, September 27, 2019.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



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2. Summary of Test Results

| Standard Section | Test Item | Result |
|--|-------------------------|--------|
| FCC Part 15, Paragraph 15.207 | Conducted Emission Test | PASS |
| FCC Part 15, Paragraph 15.209(a)(f) | Spurious Emission | PASS |
| Part 15.203 | Antenna Requirement | PASS |



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3. Conducted Emission Test

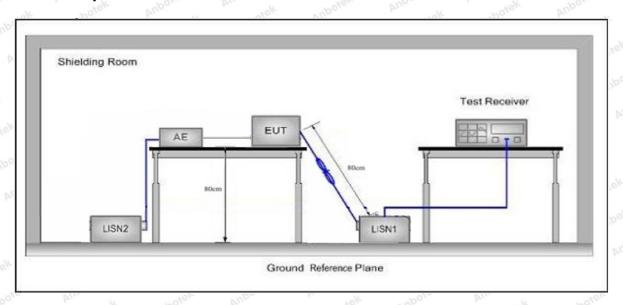
3.1. Test Standard and Limit

| Test Standard | FCC Part15 Section 15.207 | | | | | | | |
|---------------|---------------------------|--------------------------------|---------------|--|--|--|--|--|
| | Fraguesay | Maximum RF Line Voltage (dBuV) | | | | | | |
| Test Limit | Frequency | Quasi-peak Level | Average Level | | | | | |
| | 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * | | | | | |
| | 500kHz~5MHz | 56 | Anbou 46 | | | | | |
| | 5MHz~30MHz | 60 | 50 | | | | | |

Remark: (1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked

3.4. Test Data

Please to see the following pages.

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The three coils of conventional wireless charger can only work with one coil at a time, and only the worst mode (middle coil) is recorded in the report. It is found that 10W is the worst case, and the data in the report only reflects the worst case.

Conducted Emission Test Data

Test Site: 1# Shielded Room

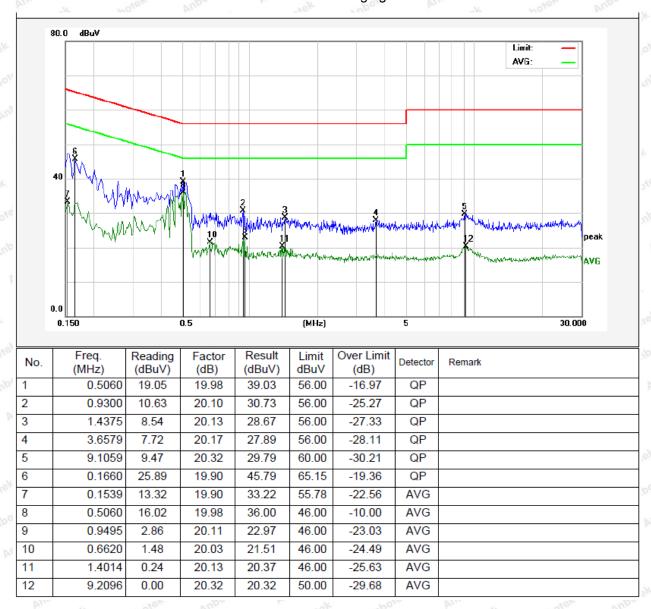
Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 22.8℃ Hum.: 53%

Note: Conventional wireless charging





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Conducted Emission Test Data

Test Site: 1# Shielded Room

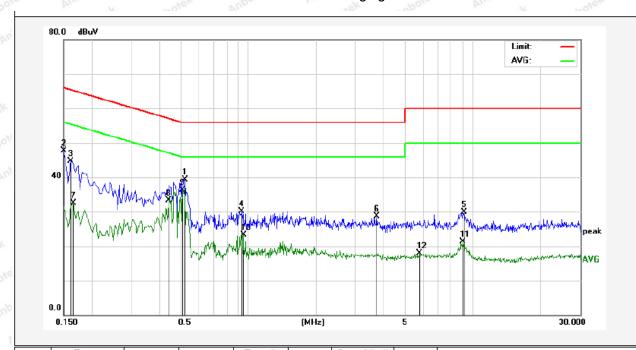
Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.8℃ Hum.: 53%

Note: Conventional wireless charging



| No. | Freq. | Reading | Factor | Result | Limit dBuV | Over Limit | Detector | Remark |
|-----|--------|---------|--------|--------|---------------|------------|----------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV) | | (dB) | | |
| 1 | 0.5220 | 19.27 | 19.99 | 39.26 | 56.00 | -16.74 | QP | |
| 2 | 0.1499 | 27.83 | 19.90 | 47.73 | 66.00 | -18.27 | QP | |
| 3 | 0.1620 | 24.80 | 19.90 | 44.70 | 65.36 | -20.66 | QP | |
| 4 | 0.9340 | 10.07 | 20.10 | 30.17 | 56.00 | -25.83 | QP | |
| 5 | 9.1097 | 9.50 | 20.32 | 29.82 | 60.00 | -30.18 | QP | |
| 6 | 3.7339 | 8.48 | 20.17 | 28.65 | 56.00 | -27.35 | QP | |
| 7 | 0.1660 | 12.67 | 19.90 | 32.57 | 55.15 | -22.58 | AVG | |
| 8 | 0.4420 | 13.26 | 19.95 | 33.21 | 47.02 | -13.81 | AVG | |
| 9 | 0.5100 | 16.39 | 19.98 | 36.37 | 46.00 | -9.63 | AVG | |
| 10 | 0.9497 | 3.14 | 20.11 | 23.25 | 46.00 | -22.75 | AVG | |
| 11 | 9.0496 | 0.90 | 20.31 | 21.21 | 50.00 | -28.79 | AVG | |
| 12 | 5.7738 | -2.30 | 20.23 | 17.93 | 50.00 | -32.07 | AVG | |
| 12 | 3.1136 | -2.30 | 20.23 | 17.85 | 30.00 | -32.07 | AVG | |



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Conducted Emission Test Data

Test Site: 1# Shielded Room

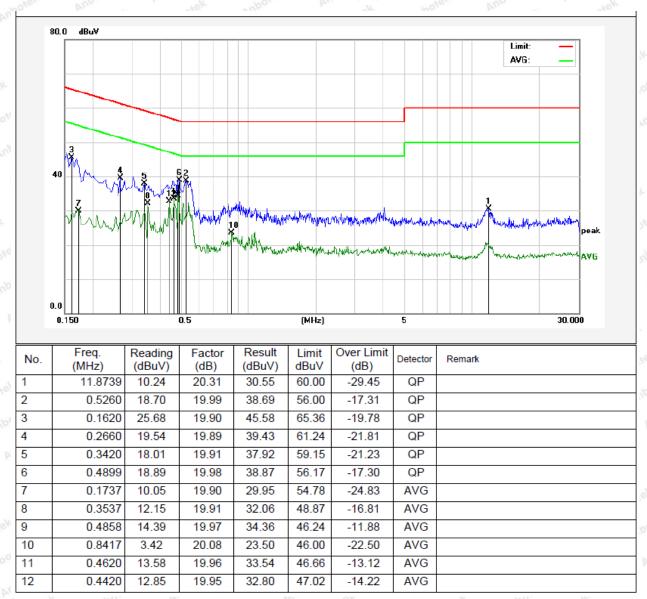
Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 22.8℃ Hum.: 53%

Apple Watch wireless charging Note:





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Conducted Emission Test Data

Test Site: 1# Shielded Room

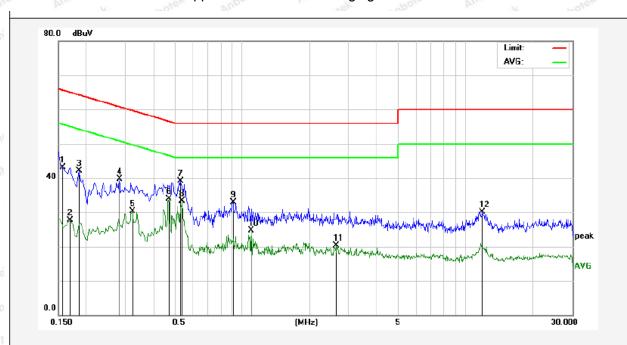
Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.8℃ Hum.: 53%

Note: Apple Watch wireless charging



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Over Limit (dB) | Detector | Remark |
|-----|----------------|-------------------|----------------|------------------|---------------|--------------------|----------|--------|
| 1 | 0.1580 | 23.15 | 19.90 | 43.05 | 65.56 | -22.51 | QP | |
| 2 | 0.1700 | 7.82 | 19.90 | 27.72 | 54.96 | -27.24 | AVG | |
| 3 | 0.1859 | 22.15 | 19.90 | 42.05 | 64.21 | -22.16 | QP | |
| 4 | 0.2816 | 19.80 | 19.89 | 39.69 | 60.77 | -21.08 | QP | |
| 5 | 0.3220 | 10.36 | 19.90 | 30.26 | 49.65 | -19.39 | AVG | |
| 6 | 0.4697 | 13.85 | 19.97 | 33.82 | 46.52 | -12.70 | AVG | |
| 7 | 0.5299 | 19.14 | 19.99 | 39.13 | 56.00 | -16.87 | QP | |
| 8 | 0.5380 | 13.24 | 19.99 | 33.23 | 46.00 | -12.77 | AVG | |
| 9 | 0.9100 | 12.90 | 20.10 | 33.00 | 56.00 | -23.00 | QP | |
| 10 | 1.0980 | 4.65 | 20.12 | 24.77 | 46.00 | -21.23 | AVG | |
| 11 | 2.6419 | 0.23 | 20.15 | 20.38 | 46.00 | -25.62 | AVG | |
| 12 | 11.9176 | 9.79 | 20.31 | 30.10 | 60.00 | -29.90 | QP | |



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4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15 | 5.209 and 15.205 | | | |
|---------------|-------------------------|----------------------------------|-------------------|------------|--------------------------|
| | Frequency (MHz) | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz~0.490MHz | 2400/F(kHz) | Anti-otek | anbotek | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | r Aug Potek | Anbotek | 30 |
| | 1.705MHz-30MHz | Who ago with a second | Prince Posts | k Aupolek | 30 |
| Test Limit | 30MHz~88MHz | 100 | 40.0 | Quasi-peak | 3 |
| | 88MHz~216MHz | 150 | 43.5 | Quasi-peak | bolle 3 Annu |
| | 216MHz~960MHz | 200 | 46.0 | Quasi-peak | Ambor 3 |
| | 960MHz~1000MHz | 500 | 54.0 | Quasi-peak | Anbola 3 |
| | A h a 4000MILE | 500 | 54.0 | Average | M3 |
| | Above 1000MHz | Anborek Ant | 74.0 | Peak | 3 |

Remark:

- (1)The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

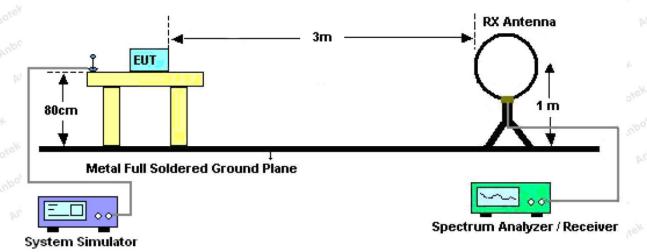


Figure 1. Below 30MHz



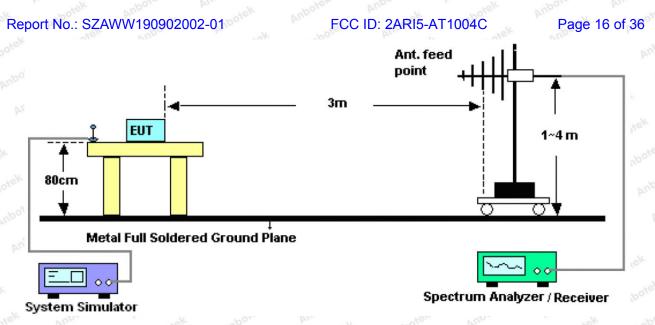


Figure 2. 30MHz to 1GHz

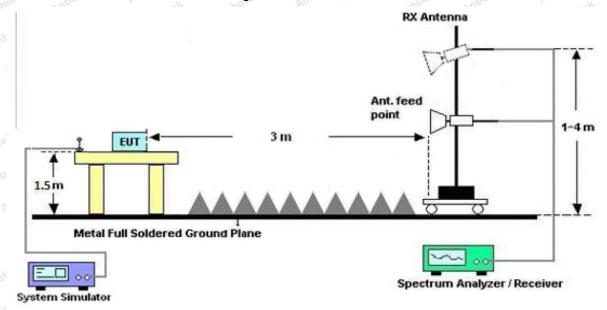


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.





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For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

Note:

The three coils of conventional wireless charger can only work with one coil at a time, and only the worst mode (middle coil) is recorded in the report. It is found that 10W is the worst case, and the data in the report only reflects the worst case.



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Test Results (9K~30MHz)

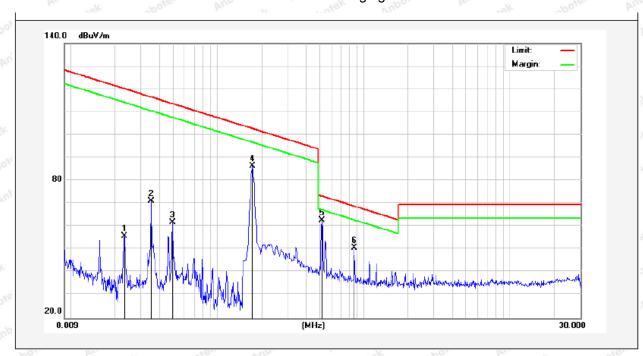
Test Mode: Mode 1

Power Source: AC 120V, 60Hz for adapter

Temp.(°C)/Hum.(%RH): 22.6°C/57%RH

Distance: 3m

Note: Conventional wireless charging



| Frequency (MHz) | Read Level (dBuV) | Antenna Factor | Cable Loss (dB) | Preamp Factor | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | degree |
|--------------------|----------------------|-------------------|--------------------|------------------|-------------------|-------------------|--------------------|----------|--------|
| (IVIITZ) | (dbuv) | (dB/m) | (db) | (dB) | (ubuv/III) | (ubuv/III) | (ub) | | (dge) |
| 0.0232 | 34.12 | 19.28 | 2.53 | 0 | 55.93 | 140.15 | -84.22 | Peak | 84 |
| 0.0232 | 30.67 | 19.28 | 2.53 | 0 | 52.48 | 120.15 | -67.67 | AV | 84 |
| 0.0354 | 49.29 | 19.28 | 2.53 | 0 | 71.10 | 136.50 | -65.40 | Peak | 120 |
| 0.0354 | 47.75 | 19.28 | 2.53 | 0 | 69.56 | 116.50 | -46.94 | AV | 120 |
| 0.0495 | 40.08 | 19.30 | 2.54 | 0 | 61.92 | 133.60 | -71.68 | Peak | 180 |
| 0.0495 | 37.80 | 19.30 | 2.54 | 0 | 59.64 | 113.60 | -53.96 | AV | 180 |
| 0.1740 | 64.39 | 19.38 | 2.55 | 0 | 86.32 | 122.74 | -36.42 | Peak | 320 |
| 0.1740 | 62.52 | 19.38 | 2.55 | 0 | 84.45 | 102.74 | -18.29 | AV | 320 |
| 0.5180 | 40.77 | 19.53 | 2.59 | 0 | 62.89 | 73.32 | -10.43 | QP | 90 |
| 0.8620 | 27.81 | 20.34 | 2.60 | 0 | 50.75 | 68.89 | -18.14 | QP | 76 |

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.



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Test Results (9K~30MHz)

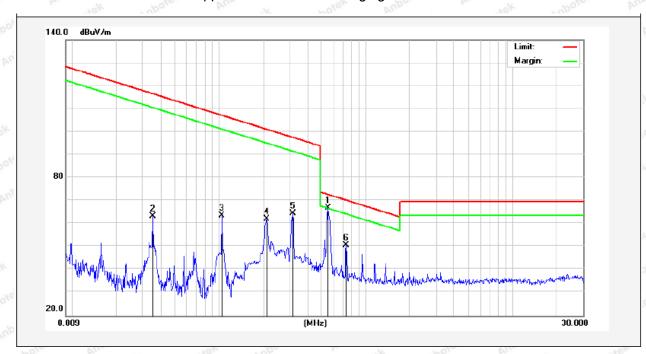
Test Mode: Mode 1

Power Source: AC 120V, 60Hz for adapter

Temp.(°C)/Hum.(%RH): 22.6°C/57%RH

Distance: 3m

Note: Apple Watch wireless charging



| Frequency (MHz) | Read Level (dBuV) | Antenna Factor | Cable Loss | Preamp Factor | Level (dBuV/m) | Limit (dBuV/m) | Over Limit | Detector | degree |
|--------------------|----------------------|-------------------|------------|------------------|-------------------|-------------------|------------|----------|--------|
| (IVIFIZ) | (dbuv) | (dB/m) | (dB) | (dB) | (dbuv/III) | (ubuv/III) | (dB) | | (dge) |
| 0.5500 | 45.02 | 19.28 | 2.53 | 0 | 66.83 | 72.79 | -5.96 | QP | 67 |
| 0.0353 | 43.86 | 19.28 | 2.53 | 0 | 65.67 | 136.52 | -70.85 | Peak | 114 |
| 0.0353 | 41.49 | 19.28 | 2.53 | 0 | 63.30 | 116.52 | -53.22 | AV | 114 |
| 0.1046 | 43.28 | 19.38 | 2.55 | 0 | 65.21 | 127.14 | -61.93 | Peak | 254 |
| 0.1046 | 41.82 | 19.38 | 2.55 | 0 | 63.75 | 107.14 | -43.39 | AV | 254 |
| 0.2100 | 42.17 | 19.39 | 2.55 | 0 | 64.11 | 121.12 | -57.01 | Peak | 152 |
| 0.2100 | 40.07 | 19.39 | 2.55 | 0 | 62.01 | 101.12 | -39.11 | AV | 152 |
| 0.3180 | 43.20 | 19.41 | 2.56 | 0 | 65.17 | 117.53 | -52.36 | Peak | 90 |
| 0.3180 | 42.70 | 19.41 | 2.56 | 0 | 64.67 | 97.53 | -32.86 | AV | 90 |
| 0.7340 | 27.88 | 20.34 | 2.60 | 0 | 50.82 | 70.29 | -19.47 | QP | 76 |

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.



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Test Results (30~1000MHz)

Test Mode: Mode 1

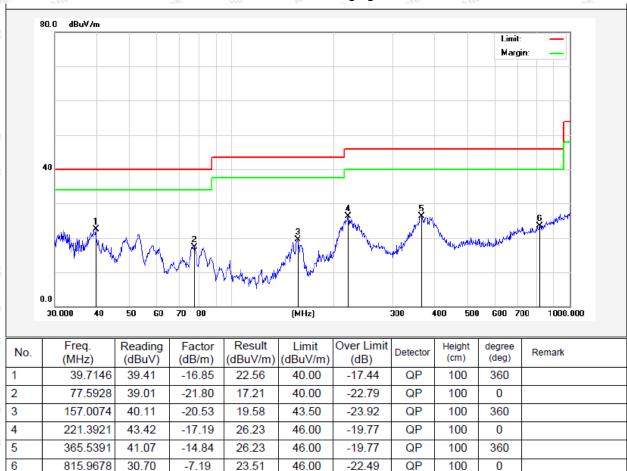
Power Source: AC 120V, 60Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 22.6°C/57%RH

Distance: 3m

Note: Conventional wireless charging





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Test Results (30~1000MHz)

Test Mode: Mode 1

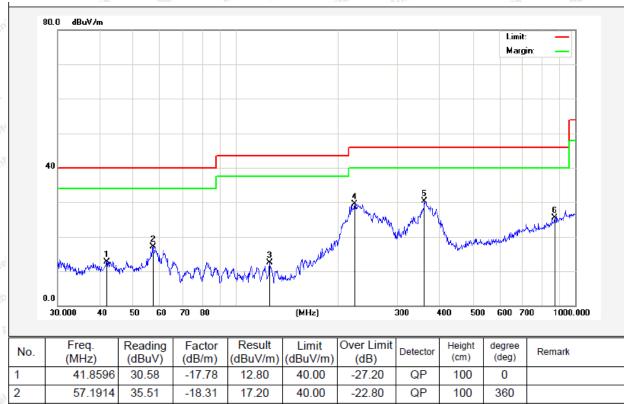
Power Source: AC 120V, 60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.6°C/57%RH

Distance: 3m

Note: Conventional wireless charging



| No. | Freq. (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|----------------|--------|--------|----------|----------|--------|----------|----------------|-----------------|--------|
| 1 | 41.8596 | 30.58 | -17.78 | 12.80 | 40.00 | -27.20 | QP | 100 | 0 | |
| 2 | 57.1914 | 35.51 | -18.31 | 17.20 | 40.00 | -22.80 | QP | 100 | 360 | |
| 3 | 126.3286 | 37.73 | -25.21 | 12.52 | 43.50 | -30.98 | QP | 100 | 0 | |
| 4 | 224.5193 | 51.21 | -21.78 | 29.43 | 46.00 | -16.57 | QP | 100 | 360 | |
| 5 | 360.4476 | 46.21 | -15.91 | 30.30 | 46.00 | -15.70 | QP | 100 | 0 | |
| 6 | 869.1302 | 32.52 | -7.05 | 25.47 | 46.00 | -20.53 | QP | 100 | 360 | |

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Test Results (30~1000MHz)

Test Mode: Mode 1

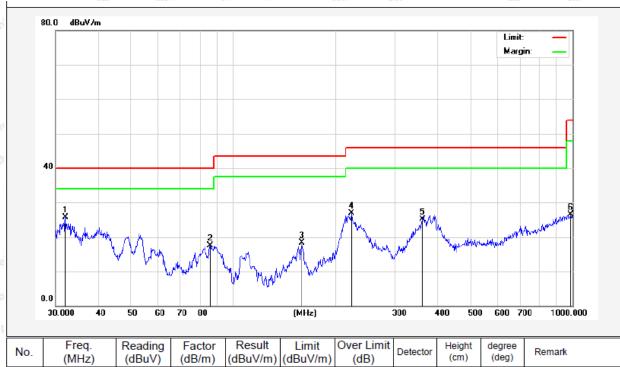
AC 120V, 60Hz for adapter Power Source:

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 22.6°C/57%RH

Distance: 3m

Note: Apple Watch wireless charging



| | No. | Freq. (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | (cm) | (deg) | Remark |
|---|-----|----------------|--------|--------|----------|----------|--------|----------|------|-------|--------|
| | 1 | 32.0667 | 43.93 | -18.23 | 25.70 | 40.00 | -14.30 | QP | 100 | 0 | |
| N | 2 | 85.5977 | 36.95 | -19.46 | 17.49 | 40.00 | -22.51 | QP | 100 | 360 | |
| | 3 | 159.7844 | 38.77 | -20.40 | 18.37 | 43.50 | -25.13 | QP | 100 | 0 | |
| Š | 4 | 222.9502 | 43.92 | -17.10 | 26.82 | 46.00 | -19.18 | QP | 100 | 360 | |
| | 5 | 361.7139 | 40.02 | -14.90 | 25.12 | 46.00 | -20.88 | QP | 100 | 0 | |
| | 6 | 989.5355 | 30.28 | -3.81 | 26.47 | 54.00 | -27.53 | QP | 100 | 360 | |

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Test Results (30~1000MHz)

Test Mode: Mode 1

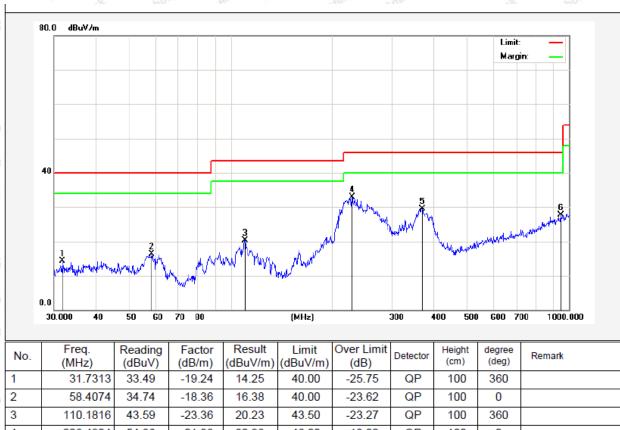
Power Source: AC 120V, 60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.6°C/57%RH

Distance: 3m

Note: Apple Watch wireless charging



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|----------------|-------------------|------------------|--------------------|-------------------|--------------------|----------|-------------|-----------------|--------|
| 1 | 31.7313 | 33.49 | -19.24 | 14.25 | 40.00 | -25.75 | QP | 100 | 360 | |
| 2 | 58.4074 | 34.74 | -18.36 | 16.38 | 40.00 | -23.62 | QP | 100 | 0 | |
| 3 | 110.1816 | 43.59 | -23.36 | 20.23 | 43.50 | -23.27 | QP | 100 | 360 | |
| 4 | 228.4904 | 54.36 | -21.38 | 32.98 | 46.00 | -13.02 | QP | 100 | 0 | |
| 5 | 368.1116 | 45.34 | -15.79 | 29.55 | 46.00 | -16.45 | QP | 100 | 360 | |
| 6 | 945.4399 | 33.23 | -5.59 | 27.64 | 46.00 | -18.36 | QP | 100 | 0 | |



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5. Antenna Requirement

5.1. 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 |

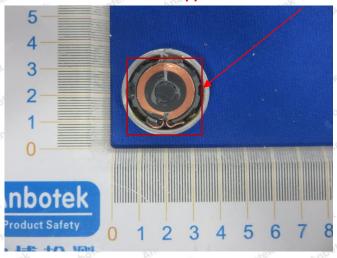
5.2. Antenna Connected Construction

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.





Apple Watch wireless Antenna



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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement (Conventional wireless charging)



Apple Watch wireless charging



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Photo of Radiation Emission Test (Conventional wireless charging)



Apple Watch wireless charging



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Conventional wireless charging



Apple Watch wireless charging



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Email: service@anbotek.com

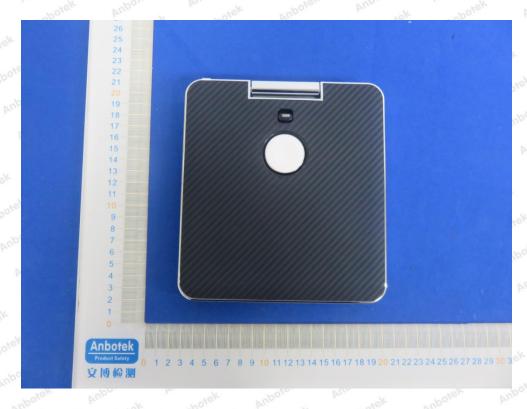
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APPENDIX II -- EXTERNAL PHOTOGRAPH





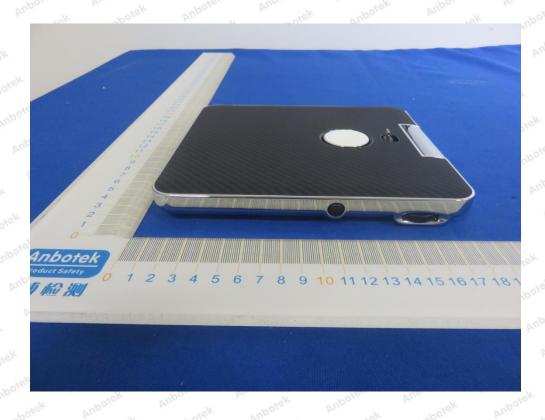
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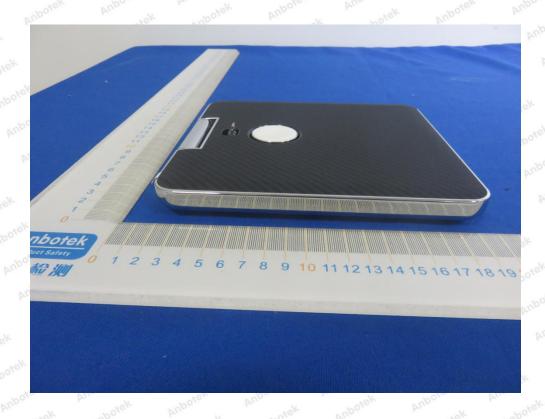


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APPENDIX III -- INTERNAL PHOTOGRAPH





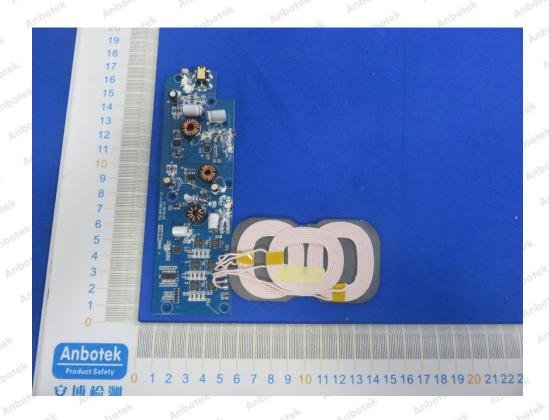
Shenzhen Anbotek Compliance Laboratory Limited

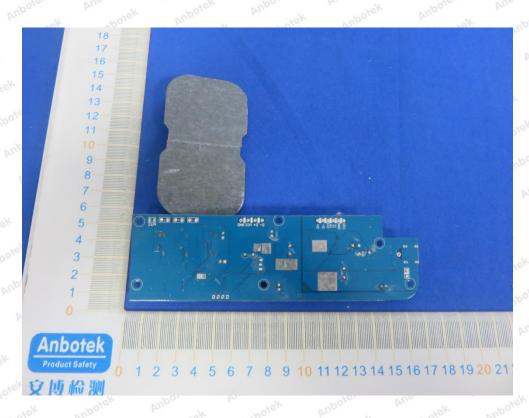
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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- End of Report -----