



Report No.: EMC1907088-01 File reference No.: 2019-07-26

Applicant:

Product:

Wireless charger

Model No .:

Trademark:

N/A

Test Standards:

ETSI EN301 489-1 v 2.1.1 (2017-02)

ETSI EN301 489-3 v 2.1.1 (2017-03)

Test result:

The EMC testing has been performed on the submitted samples

and found in compliance with council RE Directive 2014/53/EU

Approved By

Jack Chung

yack Chang

Jack Chung

EMC Manager

Dated:

July 26,2019

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.

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Date: 2019-07-26



Special Statement:

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

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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/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

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1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The TIMEWAY Lab does not assume Responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the TIMEWAY Lab.

1.2 Testing Laboratory

SHENZHEN TIMEWAY TESTING LABORATORIES.

Room 512-519,5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong China

Tel: +86 755 83448688 Fax :+86 755 83442996

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Site on File With the Federal Communications and Commission – United States

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

1.3 Details of Applicant

Name: Digiview Technology Limited

Address: West of 2/F Building B1, GaoXinJian Industrial Park, FuYuan 1st Road, HePing Vallage, FuYongTown,

BaoAn District, ShenZhen, GuangDong, China

1. 4 Application Details

Date of Receipt of Application: July 15, 2019 Date of Receipt of Test Item: July 15, 2019 Date of Test: July 15, 2018~ July 26, 2018

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1.5 Test Item

Manufacturer: Digiview Technology Limited

Address: West of 2/F Building B1, GaoXinJian Industrial Park, FuYuan 1st Road, HePing Vallage, FuYongTown,

BaoAn District, ShenZhen, GuangDong, China

Brand Name: N/A Model No.: W21

Additional Model: N/A

Description: Wireless charger **Additional Information**

Frequency: 111.5-205 kHz Modulation Type: MSK

Power Supply: DC5V from a power supply

Operation Distance: N/A

Resolution: N/A

Extreme Temp. Tolerance: -20°C to 55°C

Note: Classification according to CEPT/ERC Recommendation 70-03 & ETSI EN301 489-3 v

2.1.1 (2017-03)

1.6 Equipment Classification

| Equipment Category: 3 | |
|-----------------------|--|

1.7 List of Ports

| Port | Description | Classification ¹ | Maximum cable Length | Cable Type |
|------|-------------|-----------------------------|----------------------|------------|
| N/A | | | | |

Note

¹prots shall be classified as ac power, dc power or signal/control port.

1. 8 Ancillary and Peripheral Devices

| Description | Designation | Serial No. | Manufacturer |
|-------------|-------------|------------|--------------|
| N/A | | | |

List of Peripheral Devices Used for Testing

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

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²Maximum cable length corresponding to the appropriate ports shall be classified as ≤ 3 m or > 3m.

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| Description | Designation | Serial No. | Manufacture |
|-------------|-------------|------------|-------------|
| N/A | | | |

Note: An Equipment (apparatus) used in connection with a receiver or transmitter is considered as an ancillary Equipment (apparatus) if:

- a. The equipment is intended for use in conjunction with a receiver or transmitter to provide additional operational and/or control features to the radio equipment. (e.g. to extend control to another position or location); and
- b. The equipment cannot be used on a stand alone basis to provide user functions independently of a receiver or transmitter; and
- c. The receiver or transmitter to which it is connected, is capable of providing some intended operation such as transmitting and/or receiving without the ancillary equipment (i.e. it is not a sub-unit of the main equipment essential to the main equipment basic functions).

1.9 Test Standards

| | ETSI EN 301 489-1 v 2.1.1 (2017-02) |
|------------|---|
| | Electromagnetic compatibility and Radio spectrum Matters (ERM); |
| | Electromagnetic Compatibility (EMC) standard for radio equipment and services; |
| | Part 1: Common technical requirements |
| | ETSI EN 301 489-3 v 2.1.1 (2017-03) |
| | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services |
| Part 3: Sp | pecific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 |
| | GHz; |
| Han | monised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU |

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

1.10 Test or Witness Test Engineering

Test By:

Printing Name: Terry Tang.

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2. Technical Test

2. 1 Summary of Test Results

| No deviations from the technical specification(s) were ascertained in the course of the tests Performed | | | | |
|---|------|--|--|--|
| Final Verdict: | Pass | | | |
| (Only "Passed" if all Measurements are "Passed") | | | | |

2.2 Test Report

Emission (EMI)

| EMI | Port | Requirement | | EUT | Result | Applicability |
|--------------|------------|-------------------|----------------|-----------|----------|---------------|
| Phenomenon | | Standard | Basic Standard | Setup | | |
| Conducted | AC Mains | ETSI EN | EN 55032:2015 | Refer to | Complies | Applicable |
| Interference | | 301489-1: 2017-02 | | Section 4 | | |
| Voltage | | Clause 8.4 | | | | |
| Radiated | Enclosure | ETSI EN 301 | EN 55032: 2015 | Refer to | Complies | Applicable |
| Interference | | 489-1: 2017-02 | | Section 4 | | |
| Field | | Clause 8.2 | | | | |
| Strength | | | | | | |
| 30~6000MHz | | | | | | |
| Harmonic | AC Mains | ETSI EN 301 | EN | Refer to | Complies | Not |
| Current | Input Port | 489-1: 2017-02 | 61000-3-2:2014 | Section 4 | | Applicable |
| Emissions | | Clause 8.5 | | | | |
| Flicker & | AC Mains | ETSI EN 301 | EN | Refer to | Complies | Not |
| Voltage | Input Port | 489-1: 2017-02 | 61000-3-3:2013 | Section 4 | | Applicable |
| Fluctuation | | Clause 8.6 | | | | |

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Immunity (EMS)

| EM3 | Port | Requirement | | EUT | Result | Applicability |
|------------------|------------|----------------|----------------|-----------|----------|---------------|
| Phenomenon | | Standard | Basic Standard | Setup | | |
| Electronic | Enclosure | ETSI EN 301 | EN 61000-4-2: | Refer to | Complies | Applicable |
| Discharge | | 489-1: 2017-02 | 2009 | Section 4 | | |
| (ESD) | | Clause 9.3 | | | | |
| RF-Electro- | Enclosure | ETSI EN 301 | EN 61000-4-3: | Refer to | Complies | Applicable |
| Magnetic Field | | 489-1: 2017-02 | 2006 | Section 4 | | |
| (80-1000MHz) | | Clause 9.2 | | | | |
| And | | | | | | |
| 1400-2700MHz) | | | | | | |
| Fast Transients, | Power Line | ETSI EN 301 | EN 61000-4-4: | Refer to | Complies | Applicable |
| Burst | AC/DC | 489-1: 2017-02 | 2012 | Section 4 | | |
| | | Clause 9.4 | | | | |
| Surge | Power Line | ETSI EN 301 | EN 61000-4-5: | Refer to | Complies | Applicable |
| | (1 phase) | 489-1: 2017-02 | 2014 | Section 4 | | |
| | | Clause 9.8 | | | | |
| Transients & | Power Line | ETSI EN 301 | ISO | Refer to | Complies | Not |
| Surge Vehicular | (Car | 489-1: 2017-02 | 7637-1/2:1990 | Section 4 | | Applicable |
| Environment | Charge) | Clause 9.6 | | | | |
| RF Common | Power Line | ETSI EN 301 | EN 61000-4-6: | Refer to | Complies | Applicable |
| Mode | AC/DC | 489-1: 2017-02 | 2014 | Section 4 | | |
| (0.15-80MHz) | signal | Clause 9.5 | | | | |
| | Lines | | | | | |
| Vol. Dips, | Input& | ETSI EN 301 | EN 61000-4-11 | Refer to | Complies | |
| Interruptions& | Output AC | 489-1: 2017-02 | 2004 | Section 4 | | Applicable |
| Fluctuations | Ports only | Clause 9.7 | | | | |
| (AC Power) | | | | | | |

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N/A=Not Applicable

-Performance criteria A for immunity tests with phenomena of a continuous nature;

Communication between the Tx and Rx in the front of pings should not drop during the test.

-Performance criteria B for immunity tests with phenomena of a transient nature;

N/A

-Performance criteria C for immunity tests with power interruptions exceeding a certain time.

N/A

Note: For details see subclause 6.1 ETSI EN 301 489-3

A Switching power supply was selected by the test lab for full tests. When export, no power supply is

provided to the EUT.

Switching Power Supply Model: BI 05A-050200-I1;

Rating: Input: 100-240V~, 50/60Hz, 0.35A, Output: DC5V, 2A

Switching Power Supply Manufacturer: BI

2.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

| Test Item | Uncertainty |
|----------------------------------|---|
| Conducted Emissions | 3.6dB |
| Radiated Emissions | 4.7dB (Below 1GHz); 5.0dB (above 1GHz) |
| Harmonic Current Emission | 1.2% |
| Voltage Fluctuations and Flicker | 1.5% |
| Electrostatic Discharge | The waveform of voltage: 1.6%; Time: 3.1% |
| RF Electromagnetic Field | 3.1dB |
| Electrical Fast Transients | The waveform of voltage: 1.5%; Time: 2.9% |
| Surge | The waveform of voltage: 1.5%; Time: 2.9% |
| RF Common Mode | 3.9dB |
| Voltage Dips and Interruptions | The waveform of voltage: 1.5%; Time: 2.9% |

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Clause 8.2 Emission Test – Radiated Emission

This test assesses that ability of ancillary equipment to limit their internal noise from being radiated from the enclosure.

According to EMC basic standard (EN 55032)

Measurement according to EMC basic standard, The test results correspond to the 3m Semi-Anechoic Chamber results.

The EUT and it simulators are placed on a turntable which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission, all of The interface cables must be manipulated according to EN55032: 2015 on radiated measurement.

Radiated emissions were invested over the frequency range from 30MHz to 1 GHz using a receiver bandwidth of 120kHz.

Radiated emissions were invested over the frequency range from 30MHz to 6 GHz

Radiated Emission was performed at an antenna to EUT distance of 3 meters.

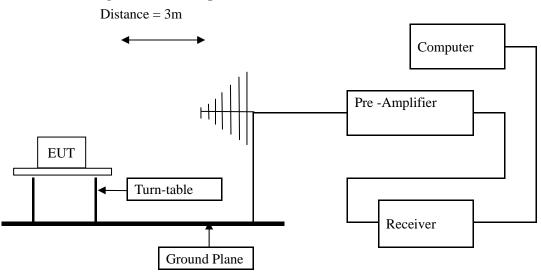
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Radiated Emission Test

Block diagram of Test setup



Power line conducted Emission Limit

| Frequency Range (MHz) | Distance (m) | Quasi-Peak limits (dB μ V/m) |
|-----------------------|--------------|----------------------------------|
| 30-230 | 10/3 | 30.0/40.0 |
| 230-1000 | 10/3 | 37.0/47.0 |
| 1000-3000 | 3 | 50 (AV) /70 (PK) |
| 3000-6000 | 3 | 54 (AV) /74 (PK) |

Note: The lower limit shall apply at the transition frequencies

Test result

Please refer to following table

| Product | Wireless charger | Model: | W21 |
|-------------|-------------------|--------------|--------|
| Test Mode | Normal Operation | Test Voltage | 230V~ |
| Test Item | Radiated Emission | Humidity | 56% RH |
| Temperature | 24 deg. C, | Test result | Pass |

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A: Radiated Disturbance (30MHz----1000MHz)

EUT Operating Environment

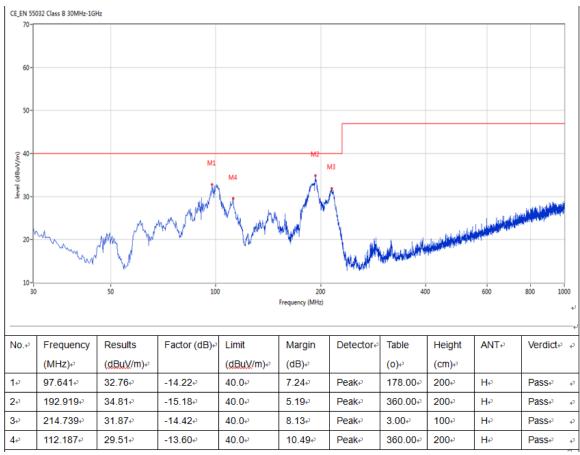
Temperature: 25°C Humidity: 55%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



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B: Radiated Disturbance (30MHz----1000MHz)

EUT Operating Environment

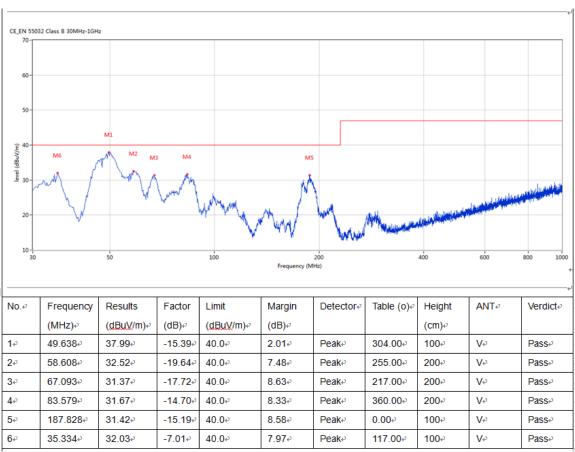
Temperature:25°C Humidity: 55%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



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C: Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

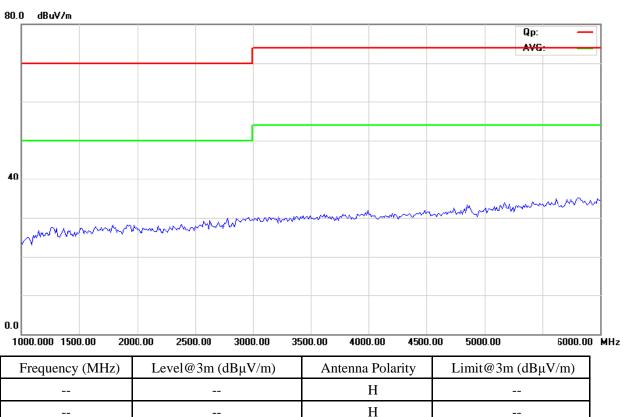
Temperature: 25°C Humidity: 55%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Note: The emission level less than the limit for more than 10dB, no necessary to take down the record.

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D: Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

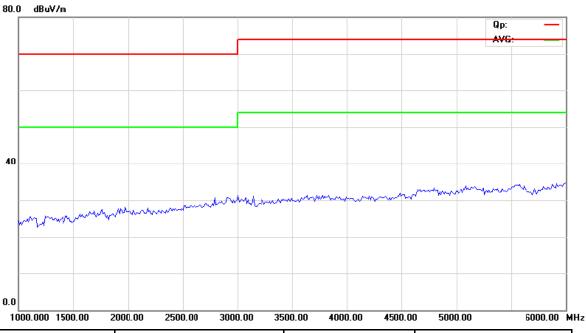
Temperature:25°C Humidity: 55%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



| Frequency (MHz) | Level@3m (dBµV/m) | Antenna Polarity | Limit@3m (dBµV/m) |
|-----------------|-------------------|------------------|-------------------|
| | | V | |
| | | V | |

Note: The emission level less than the limit for more than 10dB, no necessary to take down the record.

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Clause 8.4 AC Line Conducted Emissions

According to EMC Basic Standard (EN 55032 Class-B)

- 1. For the table top EUT the distance to the reference ground plane (wall) should be 40 cm.
- 2. AC input line plugged into LISN.

EUT Operating Mode

Charging mode

Results

| Power Line (L, N) | EUT Operating mode or operating mode no. | Detector (Peak, AV, QP) | Additional (scan-) Information (e.g. Pre-test Fast scan, Maxhold, Final measurement.) | Result (Passed / Failed) | |
|----------------------|--|----------------------------|---|--------------------------------|--|
| L=>GND | Charging mode | QP & AV | | Pass | |
| N=>GND | | QP & AV | | Pass | |

The frequency spectrum from 0.15MHz to 30MHz was investigated. All readings are quasi -peak values with a resolution bandwidth of 9 KHz

Temperature: 25° C Humidity: 53% RH

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

EUT Operating Environment

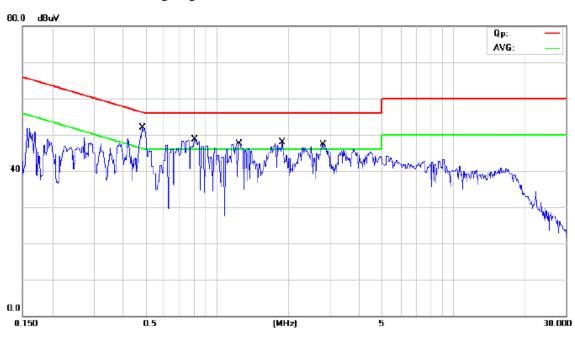
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.4815 | 38.60 | 10.25 | 48.85 | 56.31 | -7.46 | QP | |
| 2 | | 0.4815 | 24.90 | 10.25 | 35.15 | 46.31 | -11.16 | AVG | |
| 3 | | 0.8060 | 35.20 | 10.66 | 45.86 | 56.00 | -10.14 | QP | |
| 4 | | 0.8060 | 21.60 | 10.66 | 32.26 | 46.00 | -13.74 | AVG | |
| 5 | | 1.2386 | 32.80 | 10.90 | 43.70 | 56.00 | -12.30 | QP | |
| 6 | | 1.2386 | 11.90 | 10.90 | 22.80 | 46.00 | -23.20 | AVG | |
| 7 | | 1.8838 | 31.80 | 10.88 | 42.68 | 56.00 | -13.32 | QP | |
| 8 | | 1.8838 | 16.00 | 10.88 | 26.88 | 46.00 | -19.12 | AVG | |
| 9 | | 2.7850 | 31.70 | 10.86 | 42.56 | 56.00 | -13.44 | QP | |
| 10 | | 2.7850 | 16.60 | 10.86 | 27.46 | 46.00 | -18.54 | AVG | |
| | | | | | | | | | |

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

EUT Operating Environment

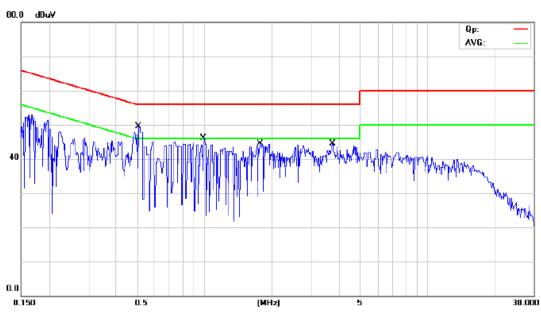
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBu∨ | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.5032 | 29.80 | 10.28 | 40.08 | 56.00 | -15.92 | QP | |
| 2 | 0.5032 | 1.30 | 10.28 | 11.58 | 46.00 | -34.42 | AVG | |
| 3 | 0.9901 | 27.10 | 10.89 | 37.99 | 56.00 | -18.01 | QP | |
| 4 | 0.9901 | 4.70 | 10.89 | 15.59 | 46.00 | -30.41 | AVG | |
| 5 * | 1.7781 | 29.50 | 10.88 | 40.38 | 56.00 | -15.62 | QP | |
| 6 | 1.7781 | 9.30 | 10.88 | 20.18 | 46.00 | -25.82 | AVG | |
| 7 | 3.7271 | 25.20 | 10.85 | 36.05 | 56.00 | -19.95 | QP | |
| 8 | 3.7271 | 8.10 | 10.85 | 18.95 | 46.00 | -27.05 | AVG | |

Remarks:

- 1. Uncertainty in conducted emission measured is 3.6dB.
- 2. QP and AV are abbreviations of quasi-peak and average individually.
- 3. The emission levels of other frequencies were very low against the limit.

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7atc. 2017-07-20

Clause 8.5 Harmonic Current Emissions

This test was performed as per EMC Basic Standard EN61000-3-2:2014

EUT Operating Mode

Charging mode

Results: N/A

| Port | EUT Operating mode or | Result |
|----------|-----------------------|-------------------|
| | operating mode no. | (Passed / Failed) |
| AC Input | Charging mode | N/A |

Please see the following test figure:

| Table 1 - Limit of Harmonics | Table 1 - Limit of Harmonics Current Measurement | | | | |
|-------------------------------------|--|--|--|--|--|
| Limits for Class A equipment | Limits for Class A equipment | | | | |
| Harmonics order (n) | Max. permissible harmonics current (A) | | | | |
| Odd harmonics | | | | | |
| 3 | 2.3 | | | | |
| 5 | 1.14 | | | | |
| 7 | 0.77 | | | | |
| 9 | 0.40 | | | | |
| 11 | 0.33 | | | | |
| 13 | 0.21 | | | | |
| 15<=n<=39 | 0.15 x 15/n | | | | |
| | Even harmonics | | | | |
| 2 | 1.08 | | | | |
| 4 | 0.43 | | | | |
| 6 | 0.30 | | | | |
| 8<=n<=40 | 0.23 x 8/n | | | | |

Note:

- 1. For Class A equipment, the harmonics of the input current shall not exceed the absolute values given in table 1
- 2. For Class B equipment, the harmonics of the input current shall not exceed the values given in table 1 multiplied by factor of 1, 5.

| Table 2 - Limit of Harmonics Current Measurement | | | | |
|--|---|--|--|--|
| Limits for Class C equipment | | | | |
| Harmonics order (n) | Max. permissible harmonics current expressed as a percentage of the input current | | | |
| | at the fundamental frequency (A) | | | |

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11<= n<=39



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| _ | | | | | | |
|---|--------------------|--|--|--|--|--|
| | Odd harmonics only | | | | | |
| 2 | 2 | | | | | |
| 3 | 30× λ* | | | | | |
| 5 | 10 | | | | | |
| 7 | 7 | | | | | |
| 9 | 5 | | | | | |

3

Note: The harmonic current limits of lighting equipment shall not exceed the relative limits given in table 2.

| Table 3 - Limit of H | Table 3 - Limit of Harmonics Current Measurement | | | | | | | |
|------------------------|--|-------------|----------|--|--|--|--|--|
| Limits for Class D equ | Limits for Class D equipment | | | | | | | |
| Harmonics order (n) | Maximum | permissible | harmonic | Maximum permissible harmonic current A | | | | |
| | current per | watt mA/W | | | | | | |
| | Odd harmonics only | | | | | | | |
| 3 | | 3.4 | | 2.30 | | | | |
| 5 | | 1.9 | | 1.14 | | | | |
| 7 | | 1.0 | | 0.77 | | | | |
| 9 | | 0.5 | | 0.40 | | | | |
| 11 | | 0.35 | | 0.33 | | | | |
| 13<=n<=39 | | 3.85/n | | See table 1 | | | | |
| 11<= n<=39 | | | | 3 | | | | |

Note: The harmonic of the input current shall not exceed the values that can be derived form table 3.

Test Equipment

Please refer to Section 6 this report.

Test Procedure

- a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn.
- b. The EUT is classified as follows:
- Class A Balanced three-phase equipment and all other equipment, except that stated in one of the following classes.
- Class B Portable tools.
- Class C Lighting equipment, including dimming devices.
- Class D Equipment having an input current with "special wave shape" and an active input power, P≤600W

Note: Due to the rated power less than 75W for the dongle. This test item not applicable.

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Clause 8.6 Flicker and Voltage Fluctuation

This test was performed as per EMC Basic Standard EN 61000-3-3: 2013

Environmental conditions: Temperature: 25°C; Humidity: 50%RH

EUT Operating Mode

Charging mode

Results

| Port | EUT Operating mode or operating mode no. | Result (Passed / Failed) | | | | | |
|-------------|---|--------------------------|--|--|--|--|--|
| AC Input | Charging mode | N/A | | | | | |
| Please refe | Please refer to the following test figure | | | | | | |

The state of the same state of the state of

Test Equipment

Please refer to Section 6 this report.

Test Procedure

- a.. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under normal operating conditions.
- b. During the flick measurement, the measure time shall include that part of whole operation cycle in which the EUT 10 minutes and the observation period for long-term flicker indicator is 2 hours.

Note: Tests need not be made on equipment which is unlikely to produce significant voltage fluctuations or flicker.

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Clause 9.2 Immunity Test - Radiated, RF Electromagnetic Field

According to EMC Basic Standard (EN 61000-4-3[9])

Operating Mode: Charging mode

Environmental conditions: Temperature: 25°C; Humidity: 50%RH

Type of Port: Enclosure

Performance Criterion: CT/CR

The distance between the turn-table axis and Tx&Rx-antenna is 3m.

Field strength = 3V/m

Start Frequency = 80MHz Stop Frequency = 6000MHz

Frequency Step = lin 1MHz

Modulation = AM, 400Hz, 1kHz, 80%

Results

| Emagniamore | Antonno | Radiation to | Description of the EUT During | Result |
|-------------|------------|---|-------------------------------|--------|
| Frequency | Antenna | Radiation to Reaction of the EUT During | | Result |
| (MHz) | Polarity | | and after test | |
| 80-6000 | Horizontal | Front | No reactions recognized | Passed |
| 80-6000 | Vertical | Front | Front No reactions recognized | |
| 80-6000 | Horizontal | Rear | Rear No reactions recognized | |
| 80-6000 | Vertical | Rear | No reactions recognized | Passed |
| 80-6000 | Horizontal | Left | No reactions recognized | Passed |
| 80-6000 | Vertical | Left | Left No reactions recognized | |
| 80-6000 | Horizontal | Right | Right No reactions recognized | |
| 80-6000 | Vertical | Right | No reactions recognized | Passed |

Note: Performance criteria A observed.

Test Equipment

Please refer to Section 6 this report.

Test Procedure

The EUT and load, which are placed on a table that is 0.8 meter above ground, are placed with one coincident with

The calibration plane such that the distance from antenna to the EUT was 3 meters.

Both horizontal and vertical polarization of the antenna and four sides of the EUT are set on measurement.

In order to judge the EUT performance, a CCD camera is used to monitor EUT screen.

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Clause 9.3 Electrostatic Discharge

According to EMC basic standard (EN61000-4-2[10]

Operating Mode: Charging mode

Environmental conditions: Temperature: 24°C; Humidity: 50%RH

Type of Port: Enclosure, USB Port, Screw

Performance Criterion: TT/TR

For the table top EUT the distance to the reference ground plane should be 80 cm.

Direct contact discharge on conducting surfaces of EUT Indirect air discharge on insulating surfaces of EUT

 $\pm 2kV$, $\pm 4kV$ direct discharge & $\pm 2kV$, $\pm 4kV$, $\pm 8kV$ air discharge

Test Results

| Item | Contact Discharge to conducted surfaces and to coupling planes | | | | | charge at ng surfaces |
|--------------|--|---|--------------|-----------------|---------------|--------------------------|
| | Direct Contac | t Discharge | Indirect Cor | ntact Discharge | | |
| Test Voltage | Reaction of E | Reaction of EUT / Result Reaction of EUT / Result | | | Reaction of E | CUT / Result |
| +2kV | n.r.r | Passed | n.r.r | Passed | n.r.r | Passed |
| -2kV | n.r.r | Passed | n.r.r | Passed | n.r.r | Passed |
| +4kV | n.r.r | Passed | n.r.r | Passed | n.r.r | Passed |
| -4kV | n.r.r | Passed | n.r.r | Passed | n.r.r | Passed |
| +8kV | | - | | - | n.r.r | Passed |
| -8kV | | - | | - | n.r.r | Passed |

Remarks: n.r.r. = no reaction recognized

Performance Criteria A observed and No any function degraded during the tests.

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Clause 9.4 Fast Transients Common Mode According to EMC basic standard (EN61000-4-4 [11]

Operating Mode: Charging mode

Environmental conditions: Temperature: 25°C; Humidity: 51%RH

Type of Port: AC mains power input/output port

Performance Criterion: TT/TR

For the table top EUT the distance to the reference ground plane should be 10 cm.

The test level for ac mains power input ports shall be 1kV open circuit.

Test Setup

Burst on Power Line (direct injection)

Test Results

| Adjustment on UCS 500 M4: Trigger "AUTO", | | | | | st Time: | 60s for every voltage and polarity | | |
|--|------------|---|------|------|----------|------------------------------------|-----------|------|
| Burst length: 15ms 120s for every voltage an | | | | | | d polarity | | |
| Testin | g on power | Reaction of The Test Object During and after Test | | | | | Result | |
| Line (direct injection) | | | | | | | | |
| Test | Repetition | L1 =>GND | L2=> | L3=> | N=> | PE=> | L1, N, => | |
| Voltage | Frequency | (+=>GND) | GND | GND | GND | GND | GND | |
| -0.5kV | 5kHz | n.r.r | N/A | N/A | n.r.r | N/A | n.r.r | Pass |
| +0.5kV | 5kHz | n.r.r | N/A | N/A | n.r.r | N/A | n.r.r | Pass |
| -1.0kV | 5kHz | n.r.r | N/A | N/A | n.r.r | N/A | n.r.r | Pass |
| +1.0kV | 5kHz | n.r.r | N/A | N/A | n.r.r | N/A | n.r.r | Pass |

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Clause 9.5 RF Common Mode

According to EMC basic standard (EN61000-4-6 [10])

Operating Mode: Charging mode

Environmental conditions: Temperature: 25°C; Humidity: 51%RH

Type of Port: AC mains power input/output port

Performance Criterion: CT/CR

Start Frequency = 150KHz Stop Frequency = 80MHz Frequency Step = 50kHz in the range of 150kHz-5MHz

1% increment in the range of 5MHz-80MHz

Modulation = AM, 400Hz, 1kHz, 80%

Test Setup

Injection via CDN or BIC clamp

Test Results

| Injection On | Injection Via | Reaction of the EUT During and after test | Result |
|---------------------|---------------|---|--------|
| AC input power line | CDN | No reactions recognized | Pass |

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Clause 9.7 Voltage Dips

According to EMC basic standard (EN61000-4-11 [13])

Operating Mode: Charging mode

Environmental conditions: Temperature: 24°C; Humidity: 49%RH

Type of Port: AC mains power input/output port

Performance Criterion: TT/TR

For the table top EUT the distance to the reference ground plane should be 80 cm.

The test level shall be- a vol. Reduction of the supply vol. 100% for 10ms, 100% for 20ms, 30% for 500ms

And 100% for 5000ms

Test Results

Voltage Dip:

| , ortuge 2 lpt | | 1 | | I | | | |
|------------------------|-----------|-----------|-------------|-----------------------|--------|--|--|
| Test Level | Reduction | Duration | Phase Angle | Reaction of EUT | Result | | |
| % Ut | | (periods) | | during and after Test | | | |
| 0 | 100% | 10ms | 0° - 360° | n.r.r- performance | Pass | | |
| | | | | criteria A observed | D | | |
| 0 | 100% | 20ms | 0° - 360° | n.r.r- performance | Pass | | |
| Ů | 10070 | 201115 | 0 - 300 | criteria A observed | | | |
| 70 | 30% | 500ms | 0° - 360° | n.r.r- performance | Pass | | |
| | | | | criteria A observed | | | |
| Voltage Interceptions: | | | | | | | |
| Test Level | Reduction | Duration | Phase Angle | Reaction of EUT | Result | | |
| % Ut | | (periods) | | during and after Test | | | |
| 0 | 100% | 5000ms | 0° - 360° | n.r.r- performance | Pass | | |
| | | | | criteria B observed | 1 488 | | |

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Clause 9.8 Surges Common & Differential Mode (1-phase)

According to EMC basic standard (EN61000-4-5 [14])

Operating Mode: Charging mode

Environmental conditions: Temperature: 25°C; Humidity: 50%RH

Type of Port: AC mains power input/output port

Performance Criterion: TT/TR

For the table top EUT the distance to the reference ground plane should be 80 cm. 1KV open circuit for common mode & 0.5kV open circuit for differential mode.

Test Results

5 pulses for each polarity and test voltage, alternating and negative/positive, triggered in case of AC- powerline: 0°, 45°, 90° 180°, 270°, referred to the line frequency. (L1)

Repetition rate is 1 per min.

| Repetition rate is 1 per min. | | | | | | | |
|-------------------------------|--|-------------------------------|-----------------------|---------------------|----------------------|------|--|
| Test | Reaction of the test object during and after test by trigger angle/pulse | | | | | | |
| Voltage | no.(coupling on DC-lines =>trigger angle not relevant). | | | | | | |
| | 0°/pulse | 45 ⁰ /pulse, no.3, | 90°/pulse, no. 5, 6 | 180°/pulse, no. | 270°/pulse, no. | | |
| | no1, 2 | 4 | | 7, 8 | 9, 10 | | |
| | Capaciti | ve coupling on AC | line: L1=>N or DC lin | nes lines +=>- (Ri= | $2\Omega/C = 18uF$) | | |
| -0.5kV | No reaction | No reaction | No reaction | No reaction | No reaction | Pass | |
| +0.5kV | Recognized | Recognized | Recognized | Recognized | Recognized | | |
| -1.0kV | No reaction | No reaction | No reaction | No reaction | No reaction | Pass | |
| +1.0kV | Recognized | Recognized | Recognized | Recognized | Recognized | | |
| -2.0Kv | N/A | N/A | N/A | N/A | N/A | N/A | |
| +2.0kV | | | | | | | |
| - kV | N/A | N/A | N/A | N/A | N/A | N/A | |
| +kV | | | | | | | |

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3. CE Mark label specification

Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.



Mark Location: Rear enclosure

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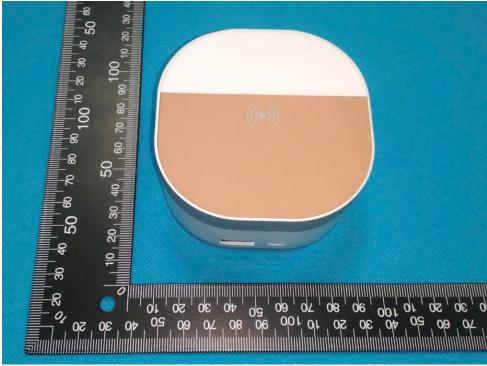


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4.0. Photographs – EUT

External View





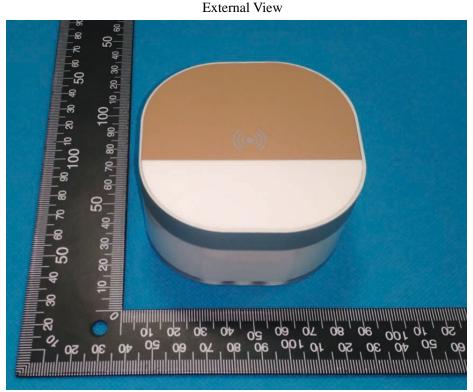
The report refers only to the sample tested and does not apply to the bulk.

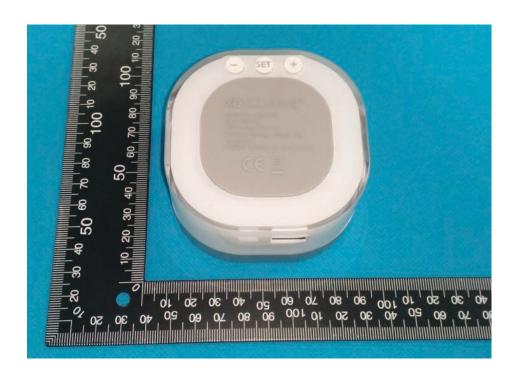
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External View

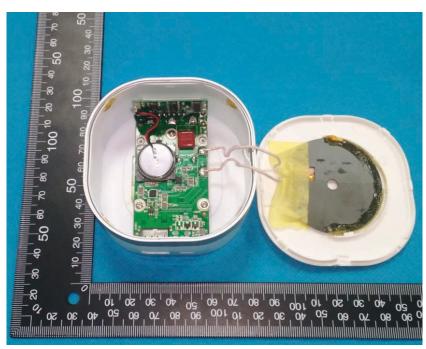


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Internal View





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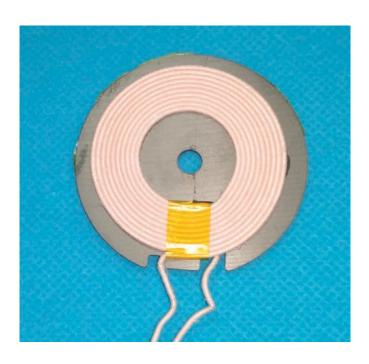
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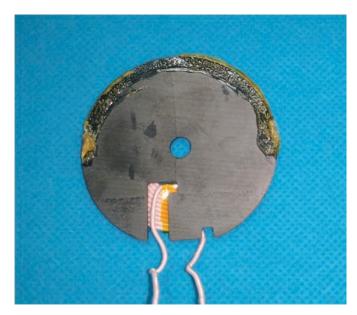
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Internal View





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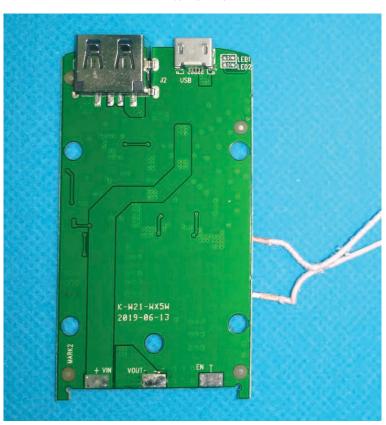
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to

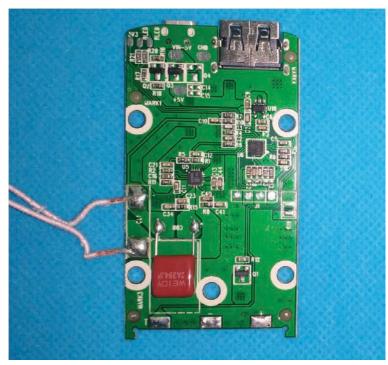
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Internal View





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Test Fauinment

| 5.0 Test Equipment | | | | | | | |
|---------------------------------|------------------------|-----------|------------|--------------|------------|--|--|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date | | |
| ESPI Test Receiver | ROHDE&SCHWARZ | ESPI 3 | 100379 | 2019-06-02 | 2020-06-01 | | |
| TWO Line-V-NETW | ROHDE&SCHWARZ | EZH3-Z5 | 100294 | 2019-06-02 | 2020-06-01 | | |
| TWO Line-V-NETW | ROHDE&SCHWARZ | EZH3-Z5 | 100253 | 2019-06-02 | 2020-06-01 | | |
| Ultra Broadband ANT | ROHDE&SCHWARZ | HL562 | 100157 | 2019-06-02 | 2020-06-01 | | |
| ESDV Test Receiver | ROHDE&SCHWARZ | ESDV | 100008 | 2019-06-02 | 2020-06-01 | | |
| Impuls-Begrenzer | ROHDE&SCHWARZ | ESH3-Z2 | 100281 | 2019-06-02 | 2020-06-01 | | |
| System Controller | CT | SC100 | - | 2018-08-22 | 2019-08-21 | | |
| Oscillator | KENWOOD | AG-203D | 3070002 | 2018-08-22 | 2019-08-21 | | |
| Spectrum Analyzer | HAMEG | HM5012 | - | 2018-08-22 | 2019-08-21 | | |
| Power Supply | LW | APS1502 | - | 2018-08-22 | 2019-08-21 | | |
| 5K VA AC Power Source | California Instruments | 5001iX | 56060 | 2019-06-02 | 2020-06-01 | | |
| CDN | EM TEST | CDN M2/M3 | - | 2019-06-02 | 2020-06-01 | | |
| Attenuation | EM TEST | ATT6/75 | - | 2019-06-02 | 2020-06-01 | | |
| Resistance | EM TEST | R100 | - | 2019-06-02 | 2020-06-01 | | |
| Electromagnetic Injection Clamp | LITTHI | EM101 | 35708 | 2019-06-02 | 2020-06-01 | | |
| Inductive Components | EM TEST | MC2630 | - | 2019-06-02 | 2020-06-01 | | |
| Antenna | EM TEST | MS100 | - | 2019-06-02 | 2020-06-01 | | |
| Signal Generator | ROHDE&SCHWARZ | SMT03 | 100029 | 2018-08-23 | 2018-08-22 | | |
| Power Amplifier | AR | 150W1000 | 300999 | 2018-08-23 | 2018-08-22 | | |
| Field probe | Holaday | HI-6005 | 105152 | 2018-08-23 | 2018-08-22 | | |
| Bilog Antenna | Chase | CBL6111C | 2576 | 2018-08-23 | 2018-08-22 | | |
| Loop Antenna | EMCO | 6502 | 00042960 | 2018-08-23 | 2018-08-22 | | |
| ESPI Test Receiver | ROHDE&SCHWARZ | ESI26 | 838786/013 | 2018-08-22 | 2019-08-21 | | |
| 3m OATS | | | N/A | 2018-08-24 | 2018-08-23 | | |

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| Vector Signal Generator | AGILENT | E4438C | MY49070163 | 2018.01.20 | 2019.01.19 |
|--|---------------|------------|-------------|------------|------------|
| Splitter | Mini-Circuits | ZAP-50W | NN256400424 | 2018.01.20 | 2019.01.19 |
| Directional Coupler | AGILENT | 87300C | MY44300299 | 2018.01.20 | 2019.01.19 |
| vector Signal Generator | AGILENT | E4438C | US44271917 | 2018.01.20 | 2019.01.19 |
| 4 Ch.Simultaneous Sampling 14 Bits 2 MS/s | AGILENT | U2531A | TW54063507 | 2018.01.20 | 2019.01.19 |
| 4 Ch.Simultaneous Sampling 14 Bits 2 MS/s | AGILENT | U2531A | TW54063513 | 2018.01.20 | 2019.01.19 |
| Splitter | Mini | PS3-7 | 4463 | 2018.01.20 | 2019.01.19 |
| Spectrum Analyzer | AGILENT | E7405A | US44210471 | 2018.01.20 | 2019.01.19 |
| Attenuator | Resnet | 20dB | (n.a) | 2018.01.20 | 2019.01.19 |
| Signal Analyzer | AGILENT | N9010A | MY48030494 | 2018.01.20 | 2019.01.19 |
| Horn Antenna | ROHDE&SCHWARZ | BBHA 9120D | 9120D-631 | 2018-08-24 | 2018-08-23 |

End of the Report