GTS

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden No.98, Pingxin North Road, Shangmugu, Pinghu Street, Longgang District, Shenzhen, Guangdong, China

TEST REPOR

| Report Reference No | GTS20190306001-1-1-2 | |
|-------------------------------------|----------------------------------|-----------------------|
| FCC ID | 2ARPF-T144 | |
| Compiled by | | 1 1/1/01 |
| (position+printed name+signature): | File administrators Jimmy Wang | Jry Mey |
| Supervised by | | n 7 |
| (position+printed name+signature): | Test Engineer Aaron Tan | Raron Tun |
| Approved by | | |
| (position+printed name+signature): | Manager Jason Hu | JasonHu |
| Date of issue | Mar.27, 2019 | |
| Representative Laboratory Name .: | Shenzhen Global Test Service Co | .,Ltd. |
| | No 7-101 and 8A-104 Building 7 a | nd 8 DCC Cultural and |

Applicant's name...... UNIVERSAL THROUGH(HK) LIMITED

Room 1405C,14/F,Lucky centre,165-171,Wanchai Road,Wanchai,

Creative Garden No.98, Pingxin North Road, Shangmugu, Pinghu

Street, Longgang District, Shenzhen, Guangdong, China

Hongkong, China

Test specification:

Address....:

Standard FCC CFR 47 part1,1.1310 KDB680106 D01v03 (3)(3)

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Test item description :: Wireless car charger holder

Trade Mark :: /

Manufacturer :: SHENZHEN UNIEVERSAL THROUGH TECHNOLOGY CO.LTD

Model/Type reference :: T144

List Model :: /

Modulation Type :: ASK

Operation Frequency :: 125KHz

Ratings :: Input voltage: DC5V/9V From adapter
Output voltage: DC5V

Result :: PASS

Report No.: GTS20190306001-1-1-2 Page 2 of 16

TEST REPORT

| Test Report No. : | GTS20190306001-1-1-2 | Mar.27, 2019 |
|-------------------|----------------------|---------------|
| | G1320190300001-1-1-2 | Date of issue |

Equipment under Test : Wireless car charger holder

Model /Type : T144

Listed Models : /

Applicant : SHENZHEN UNIEVERSAL THROUGH TECHNOLOGY CO.LTD

Address : 2F,B,Block,No.,8,Longcun,Chaungye,Road,Dakang,Community,

Henggang Street, Longgang District Shenzhen, China.

Manufacturer SHENZHEN UNIEVERSAL THROUGH TECHNOLOGY CO.LTD

Address : 4th,Floor,Dong shan Gang industrial area,Gusu one road,Xi'xiang

town,Bao'an district,SZ

| Test Result: PASS |
|-------------------|
|-------------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

| <u>1.</u> | SUMMARY | <u>4</u> |
|------------|--|----------|
| 1.1. | | 4 |
| 1.2. | | 4 |
| 1.3. | =4a.baaaa | 4 |
| 1.4. | Modifications | 4 |
| <u>2.</u> | TEST ENVIRONMENT | <u>5</u> |
| 2.1. | Address of the test laboratory | 5 |
| 2.2. | Test Description | 5 |
| 2.3. | Statement of the measurement uncertainty | 5 |
| 2.4. | Equipments Used during the Test | 5 |
| <u>3.</u> | TEST CONDITIONS AND RESULTS | <u>7</u> |
| 0.4.14 | ANIMUM DEDMICOLDI E ENDOCUDE | _ |
| 3.1 W | AXIMUM PERMISSIBLE EXPOSURE | <u>/</u> |
| LIMIT | OF MAXIMUM PERMISSIBLE EXPOSURE | 7 |
| | | |
| 4.1 T | EST SETUP | 8 |
| | | |
| <u>4 .</u> | TEST SETUP PHOTOS OF THE EUT | 11 |
| | | |
| 5. | EXTERNAL AND INTERNAL PHOTOS OF THE EUT | 13 |

Report No.: GTS20190306001-1-1-2 Page 4 of 16

1. SUMMARY

1.1. General Remarks

| Date of receipt of test sample | : | Mar.15, 2019 |
|--------------------------------|---|--------------|
| | | |
| Testing commenced on | : | Mar.15, 2019 |
| | | |
| Testing concluded on | : | Mar.27, 2019 |

1.2. Product Description

| Product Name: | Wireless car charger holder |
|-----------------------|--|
| Trade Mark: | 1 |
| Model/Type reference: | T144 |
| List Model: | 1 |
| Power supply: | Input voltage: DC5V/9V From adapter Output voltage: DC5V |
| Adapter information: | Mode:EP-TA20CBC Input:AC100-240V-50/60Hz, 0.5A Output:DC 5V,2A/9V,2A |
| Antenna Type | Coil Antenna |
| Antenna Gain | 1.0dBi |
| Operation frequency | 125KHz |
| Modulation Type | CW (Continuous Wave) |

1.3. Equipment Under Test

Power supply system utilised

| Power supply voltage | : | 0 | 230V / 50 Hz | 0 | 120V / 60Hz |
|----------------------|---|---|-------------------------------|-----|-------------|
| | | 0 | 12 V DC | 0 | 24 V DC |
| | | • | Other (specified in blank bel | ow) | |

DC 5.0V/9V From adapter

Description of the test mode

| Operation Fr | Operation Frequency each of channel | | | | | |
|--------------|-------------------------------------|--|--|--|--|--|
| Channel | Frequency | | | | | |
| 1 | 125KHz | | | | | |

Operating Mode

The mode is used: Transmitting mode

1.4. Modifications

No modifications were implemented to meet testing criteria.

Report No.: GTS20190306001-1-1-2 Page 5 of 16

2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden No.98, Pingxin North Road, Shangmugu, Pinghu Street, Longgang District, Shenzhen, Guangdong, China

2.2. Test Description

| FCC CFR 47 | | | | | | | | |
|--|-----------------------------------|------|--|--|--|--|--|--|
| Standard Test Item Judgment Remark | | | | | | | | |
| FCC CFR 47 part1, 1.1310 KDB680106 D01v03 (3)(3) | Electric Field Strength (E) (V/m) | PASS | | | | | | |
| | Magnetic Field Strength (H) (A/m) | PASS | | | | | | |

2.3. Statement of the measurement uncertainty

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

| No. | Item | Uncertainty |
|-----|--|-------------|
| 1 | All emissions,radiated(<30M)(9KHz-30MHz) | ±2.45dB |
| 2 | Temperature | ±0.5°C |
| 3 | Humidity | ±2% |

2.4. Equipments Used during the Test

| Description | Brand | Model No. | Frequency Range | Calibrated Date | Calibrated Until |
|--------------------------|-------|-----------|-----------------|-----------------|------------------|
| Broadband Field Meter | NARDA | NBM-550 | - | Dec. 28, 2018 | Dec. 27, 2019 |
| Magnetic Field Meter | NARDA | ELT-400 | 1 – 400kHz | Dec. 28, 2018 | Dec. 27, 2019 |
| Magnetic Probe | NARDA | HF-3061 | 300kHz – 30MHz | Dec. 28, 2018 | Dec. 27, 2019 |
| Magnetic Probe | NARDA | HF-0191 | 27 – 1000MHz | Dec. 28, 2018 | Dec. 27, 2019 |

Report No.: GTS20190306001-1-1-2 Page 6 of 16

| Broadband Field Meter | NARDA | NBM-550 | - | Dec. 28, 2018 | Dec. 27, 2019 |
|--------------------------|-----------|---------|----------------|---------------|---------------|
| Electric Field Meter | COMBINOVA | EFM 200 | 5Hz – 400kHz | Dec. 28, 2018 | Dec. 27, 2019 |
| E-Field Probe | NARDA | EF-0391 | 100kHz – 3GHz | Dec. 28, 2018 | Dec. 27, 2019 |
| E-Field Probe | NARDA | EF-6091 | 100MHz – 60GHz | Dec. 28, 2018 | Dec. 27, 2019 |

NOTE: 1. The calibration interval of the above test instruments is 12 months .

Report No.: GTS20190306001-1-1-2 Page 7 of 16

3. TEST CONDITIONS AND RESULTS

3.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

| Limits for Occupational / Controlled Exposure | | | | | | | |
|---|--|--|--|---|--|--|--|
| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Strength (H) (A/m) Fower Density (3) E | | Averaging Time E ², H ² or S (minutes) | | | |
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 | | | |
| 3.0-30 | 1842 / f | 4.89 / f | (900 / f)* | 6 | | | |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 | | | |
| 300-1500 | | | F/300 | 6 | | | |
| 1500-100,000 | | | 5 | 6 | | | |
| Limits for General Population / Uncontrolled Exposure | | | | | | | |
| | Limits for Genera | al Population / Uncontr | olled Exposure | | | | |
| Frequency Range (MHz) | Limits for General Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm²) | Averaging Time E ², H ² or S (minutes) | | | |
| | Electric Field | Magnetic Field | Power Density (S) | E ² , H ² or S | | | |
| (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm²) | E ², H ² or S (minutes) | | | |
| (MHz) 0.3-1.34 | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) 1.63 | Power Density (S) (mW/ cm²) (100)* | E ², H ² or S (minutes) | | | |
| 0.3-1.34 1.34-30 | Electric Field Strength (E) (V/m) 614 824/f | Magnetic Field Strength (H) (A/m) 1.63 2.19/f | Power Density (S) (mW/ cm²) (100)* (180 / f)* | E ², H ² or S (minutes) 30 30 | | | |

Note 1: f = frequency in MHz; *Plane-wave equivalent power density

exposure limits below 100 kHz.

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

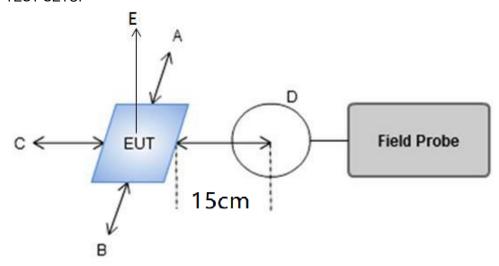
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table

¹ of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable

4. TEST PROCEDURE

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device.

4.1 TEST SETUP



4.2 RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

E-Field Strength at 15 cm from the edges surrounding the EUT and 15cm from the top surface of the EUT

| Charging | Frequency | Measured E-Field Strength Values (V/m) | | | | FCC E- Field Strength | FCC E- Field | |
|------------------|----------------|--|-----------------------|-----------------------|-----------------------|-----------------------------|------------------------|-----------------------------|
| Battery Level | Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | 50% Limits (V/m) | Strength Limits (V/m) |
| 1% | 0.125 | 6.41 | 6.59 | 7.35 | 6.71 | 6.84 | 307.0 | 614.0 |
| 50% | 0.125 | 7.49 | 7.28 | 7.02 | 6.91 | 7.39 | 307.0 | 614.0 |
| 99% | 0.125 | 6.37 | 6.69 | 7.18 | 7.47 | 6.95 | 307.0 | 614.0 |

H-Field Strength at 15 cm from the edges surrounding the EUT and 15cm from the top surface of the EUT

| Charging | Frequency | Measured E-Field Strength Values (A/m) | | | | n) | FCC H- Field | FCC H- Field |
|------------------|----------------|--|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------------|-----------------------------|
| Battery Level | Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Strength 50% Limits (A/m) | Strength Limits (A/m) |
| 1% | 0.125 | 0.35 | 0.28 | 0.27 | 0.23 | 0.37 | 0.815 | 1.63 |
| 50% | 0.125 | 0.32 | 0.32 | 0.28 | 0.20 | 0.35 | 0.815 | 1.63 |
| 99% | 0.125 | 0.31 | 0.36 | 0.32 | 0.29 | 0.29 | 0.815 | 1.63 |

H-Field Strength at 20cm from the top surface of the EUT

| Charging Battery Level | Frequency Range (MHz) | Measured E-Field Strength Values (A/m) Test Position E | FCC H-Field Strength 50% Limits (A/m) | FCC H-Field Strength Limits (A/m) |
|------------------------------|-----------------------------|---|---|--------------------------------------|
| 1% | 0.125 | 0.242 | 0.815 | 1.63 |
| 50% | 0.125 | 0.291 | 0.815 | 1.63 |
| 99% | 0.125 | 0.287 | 0.815 | 1.63 |

Report No.: GTS20190306001-1-1-2 Page 10 of 16

4.3 Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

| Requirements of KDB 680106 D01 | Yes / No | Description |
|--|----------|---|
| Power transfer frequency is less than 1 MHz | Yes | The device operate in the frequency range 110KHz~205KHz |
| Output power from each primary coil is less than 15 watts | Yes | The maximum output power for each primary coil is 5W. |
| The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils. | Yes | The transfer system includes two primary coils and are able to detect and allow coupling only between individual pairs of coils. |
| Client device is placed directly in contact with the transmitter. | Yes | Client device is placed directly in contact with the transmitter. |
| Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion). | Yes | Mobile exposure conditions only |
| The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. | Yes | The EUT H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. |

4.4 Conclusion

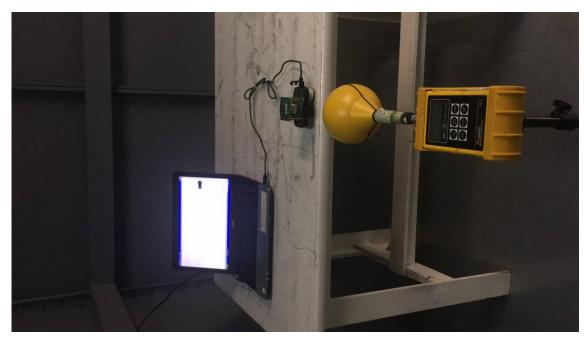
The detected emissions with a distance of 15cm surrounding the device and 20 cm above the top surface of the device are below the FCC E-Field Strength & H-Field Strength limits; and comply with the requirements of FCC KDB 680106 D01.

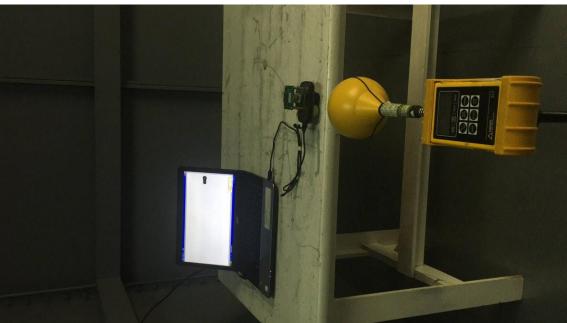
4. Test Setup Photos of the EUT

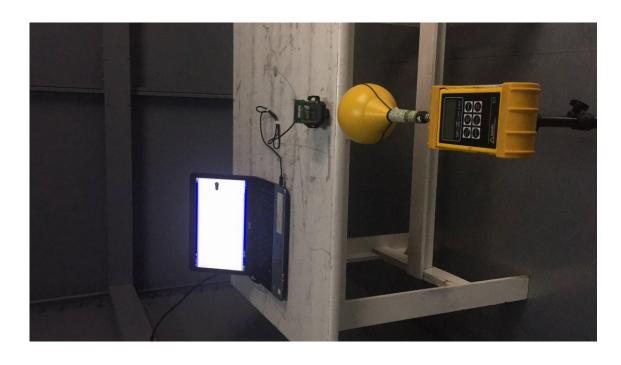




Report No.: GTS20190306001-1-1-2 Page 12 of 16







5. External and Internal Photos of the EUT







Report No.: GTS20190306001-1-1-2 Page 14 of 16



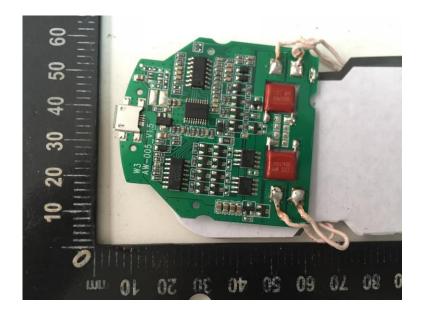




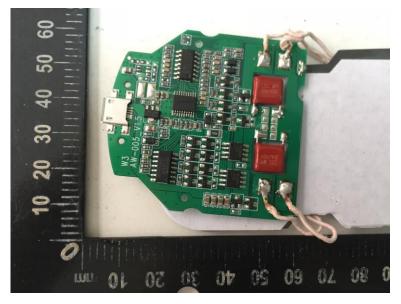
Report No.: GTS20190306001-1-1-2 Page 15 of 16







Report No.: GTS20190306001-1-1-2 Page 16 of 16



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