

# Test Report

|              |                                                           |
|--------------|-----------------------------------------------------------|
| Product Name | WPC Qi 1.1/1.0 compliance wireless charging micro-USB box |
| Model No.    | Wireless Charger                                          |
| FCC ID.      | MSQ-ASUSWLCHARGER                                         |
| IC ID.       | 3568A-ASWLCHARGER                                         |

|           |                                                |
|-----------|------------------------------------------------|
| Applicant | ASUSTeK COMPUTER INC.                          |
| Address   | 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan |

|                 |                     |
|-----------------|---------------------|
| Date of Receipt | Jan. 28, 2014       |
| Issued Date     | Mar. 05, 2014       |
| Report No.      | 1420029R-RFUSP20V00 |
| Report Version  | V1.0                |



The Test Results relate only to the samples tested.  
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This report must not be used to claim product endorsement by TAF or any agency of the U.S. Government.

# Test Report Certification

Issued Date: Mar. 05, 2014

Report No.: 1420029R-RFUSP20V00



|                     |                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------|
| Product Name        | WPC Qi 1.1/1.0 compliance wireless charging micro-USB box                                                 |
| Applicant           | ASUSTeK COMPUTER INC.                                                                                     |
| Address             | 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan                                                            |
| Manufacturer        | ASUSTeK COMPUTER INC.                                                                                     |
| Model No.           | Wireless Charger                                                                                          |
| FCC ID.             | MSQ-ASUSWLCHARGER                                                                                         |
| IC ID.              | 3568A-ASWLCHARGER                                                                                         |
| EUT Rated Voltage   | AC 100-240V, 50/60Hz                                                                                      |
| EUT Test Voltage    | AC 120V/60Hz                                                                                              |
| Trade Name          | ASUS                                                                                                      |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C: 2012<br>RSS-210 Issue 8, Section 2.5 (Dec, 2010)<br>ANSI C63.10: 2009 |
| Test Result         | Complied                                                                                                  |

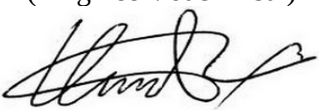
The Test Results relate only to the samples tested.

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Documented By :   
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Anita Chou )

Tested By :   
( Engineer / Jack Hsu )

Approved By :   
( Director / Vincent Lin )

## TABLE OF CONTENTS

| Description                                                   | Page      |
|---------------------------------------------------------------|-----------|
| <b>1. GENERAL INFORMATION.....</b>                            | <b>4</b>  |
| 1.1. EUT Description .....                                    | 4         |
| 1.2. Operational Description .....                            | 5         |
| 1.3. Test System Details.....                                 | 6         |
| 1.4. Configuration of Test System .....                       | 6         |
| 1.5. EUT Exercise Software.....                               | 6         |
| 1.6. Test Facility.....                                       | 7         |
| <b>2. Conducted Emission .....</b>                            | <b>8</b>  |
| 2.1. Test Equipment .....                                     | 8         |
| 2.2. Test Setup.....                                          | 8         |
| 2.3. Limits .....                                             | 9         |
| 2.4. Test Procedure.....                                      | 9         |
| 2.5. Uncertainty.....                                         | 9         |
| 2.6. Test Result of Conducted Emission .....                  | 10        |
| <b>3. Radiated Emission .....</b>                             | <b>12</b> |
| 3.1. Test Equipment .....                                     | 12        |
| 3.2. Test Setup.....                                          | 12        |
| 3.3. Limits .....                                             | 13        |
| 3.4. Test Procedure.....                                      | 14        |
| 3.5. Uncertainty.....                                         | 14        |
| 3.6. Test Result of Radiated Emission .....                   | 15        |
| <b>4. 99% Occupied Bandwidth .....</b>                        | <b>18</b> |
| 4.1. Test Equipment .....                                     | 18        |
| 4.2. Test Setup.....                                          | 18        |
| 4.3. Limits .....                                             | 18        |
| 4.4. Uncertainty.....                                         | 18        |
| 4.5. Test Result of 99% Occupied Bandwidth .....              | 19        |
| <b>5. EMI Reduction Method During Compliance Testing.....</b> | <b>20</b> |
| Attachment 1: EUT Test Photographs                            |           |
| Attachment 2: EUT Detailed Photographs                        |           |

## 1. GENERAL INFORMATION

### 1.1. EUT Description

|                   |                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------|
| Product Name      | WPC Qi 1.1/1.0 compliance wireless charging micro-USB box                                       |
| Trade Name        | ASUS                                                                                            |
| Model No.         | Wireless Charger                                                                                |
| FCC ID.           | MSQ-ASUSWLCHARGER                                                                               |
| IC ID.            | 3568A-ASWLCHARGER                                                                               |
| Frequency Range   | 144kHz                                                                                          |
| Type of antenna   | Coil                                                                                            |
| Number of Channel | 1                                                                                               |
| USB Cable         | Shielded, 1.2m, with one ferrite core bonded.                                                   |
| Power Adapter     | MFR: PIE, M/N: AD897320<br>Input: AC 100-240V~, 50/60Hz, 0.3A<br>Output: 5V $\overline{=}$ , 2A |

Center Frequency of Each Channel:

| Channel | Frequency |
|---------|-----------|
| 1       | 144 kHz   |

Note:

1. The EUT is a WPC Qi 1.1/1.0 compliance wireless charging micro-USB box with a built-in 144kHz transmitter.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.209

|           |                  |
|-----------|------------------|
| Test Mode | Mode 1: Transmit |
|-----------|------------------|

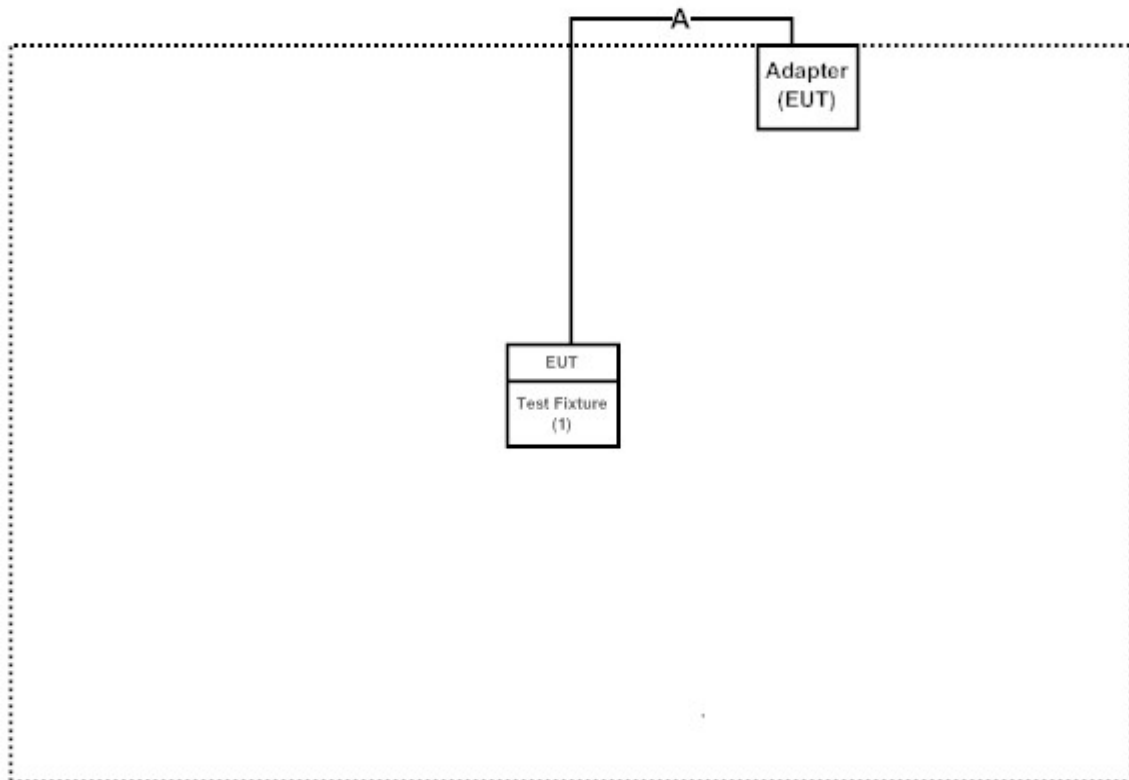
### 1.3. Test System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product          | Manufacturer | Model No. | Serial No. | Power Cord |
|------------------|--------------|-----------|------------|------------|
| (1) Test Fixture | ASUS         | N/A       | N/A        | N/A        |

| Signal Cable Type | Signal cable Description                      |
|-------------------|-----------------------------------------------|
| A USB Cable       | Shielded, 1.2m, with one ferrite core bonded. |

### 1.4. Configuration of Test System



### 1.5. EUT Exercise Software

- (1) Setup the EUT as shown in section 1.4
- (2) Turn on the power of all equipments.
- (3) Put Test Fixture on EUT, start continuous transmit.
- (4) Verify that the EUT works correctly.

## 1.6. Test Facility

Ambient conditions in the laboratory:

| Items                      | Required (IEC 68-1) | Actual   |
|----------------------------|---------------------|----------|
| Temperature (°C)           | 15-35               | 20-35    |
| Humidity (%RH)             | 25-75               | 50-65    |
| Barometric pressure (mbar) | 860-1060            | 950-1000 |

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://tw.quietek.com/tw/emc/accreditations/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :

<http://www.quietek.com/>

Site Description: File on  
Federal Communications Commission  
FCC Engineering Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046  
Registration Number: 92195

Site Name: Quietek Corporation  
Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,  
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Taiwan, R.O.C.  
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E-Mail : [service@quietek.com](mailto:service@quietek.com)

FCC Accreditation Number: TW1014

## 2. Conducted Emission

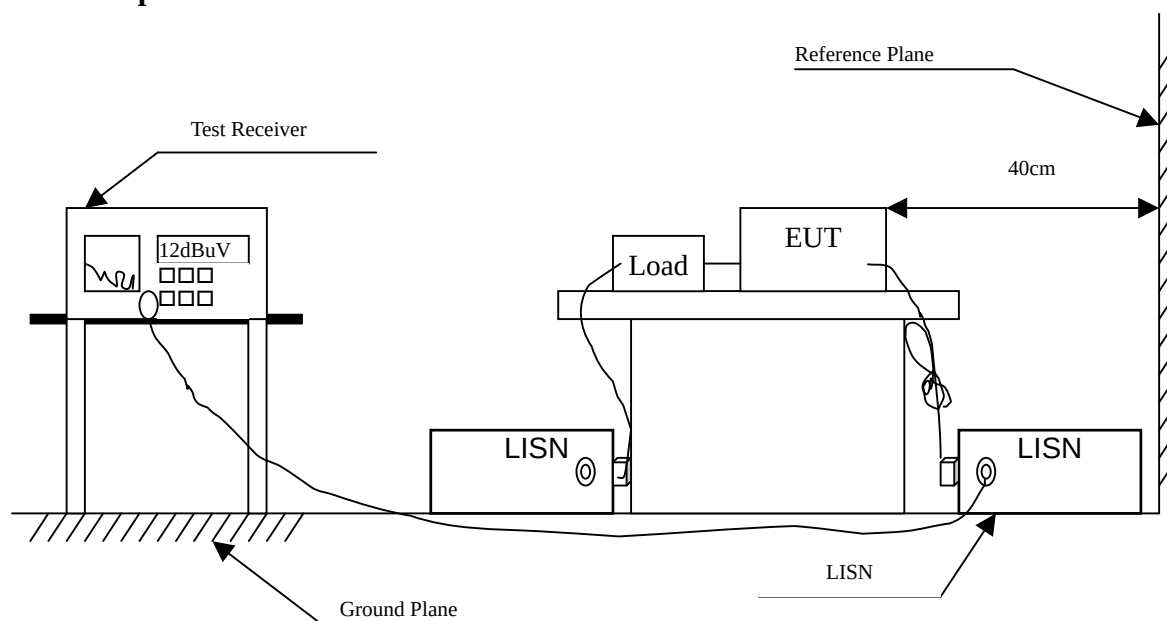
### 2.1. Test Equipment

|   | Equipment                | Manufacturer | Model No. / Serial No. | Last Cal.  | Remark      |
|---|--------------------------|--------------|------------------------|------------|-------------|
| X | Test Receiver            | R & S        | ESCS 30 / 825442/018   | Sep., 2013 |             |
| X | Artificial Mains Network | R & S        | ENV4200 / 848411/10    | Feb., 2014 | Peripherals |
| X | LISN                     | R & S        | ESH3-Z5 / 825562/002   | Feb., 2014 | EUT         |
|   | DC LISN                  | Schwarzbeck  | 8226 / 176             | Mar, 2014  | EUT         |
| X | Pulse Limiter            | R & S        | ESH3-Z2 / 357.8810.52  | Feb., 2014 |             |
|   | No.1 Shielded Room       |              |                        |            |             |

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

### 2.2. Test Setup



### 2.3. Limits

| FCC Part 15 Subpart C Paragraph 15.209 (dBuV) Limit |        |       |
|-----------------------------------------------------|--------|-------|
| Frequency<br>MHz                                    | Limits |       |
|                                                     | QP     | AVG   |
| 0.15 - 0.50                                         | 66-56  | 56-46 |
| 0.50-5.0                                            | 56     | 46    |
| 5.0 - 30                                            | 60     | 50    |

### 2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

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: 2009 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

### 2.5. Uncertainty

± 2.26 dB

## 2.6. Test Result of Conducted Emission

Product : WPC Qi 1.1/1.0 compliance wireless charging micro-USB box  
Test Item : Conducted Emission Test  
Power Line : Line 1  
Test Mode : Mode 1: Transmit

| Frequency         | Correct | Reading | Measurement | Margin  | Limit  |
|-------------------|---------|---------|-------------|---------|--------|
| MHz               | Factor  | Level   | Level       |         |        |
|                   | dB      | dBuV    | dBuV        | dB      | dBuV   |
| <b>Line 1</b>     |         |         |             |         |        |
| <b>Quasi-Peak</b> |         |         |             |         |        |
| 0.162             | 9.548   | 42.130  | 51.678      | -13.979 | 65.657 |
| 0.388             | 9.587   | 35.520  | 45.107      | -14.093 | 59.200 |
| 0.806             | 9.596   | 25.620  | 35.216      | -20.784 | 56.000 |
| 1.509             | 9.638   | 26.290  | 35.928      | -20.072 | 56.000 |
| 2.912             | 9.700   | 20.370  | 30.070      | -25.930 | 56.000 |
| 14.920            | 10.160  | 21.790  | 31.950      | -28.050 | 60.000 |
| <b>Average</b>    |         |         |             |         |        |
| 0.162             | 9.548   | 31.970  | 41.518      | -14.139 | 55.657 |
| 0.388             | 9.587   | 28.520  | 38.107      | -11.093 | 49.200 |
| 0.806             | 9.596   | 18.990  | 28.586      | -17.414 | 46.000 |
| 1.509             | 9.638   | 18.400  | 28.038      | -17.962 | 46.000 |
| 2.912             | 9.700   | 11.720  | 21.420      | -24.580 | 46.000 |
| 14.920            | 10.160  | 7.300   | 17.460      | -32.540 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : WPC Qi 1.1/1.0 compliance wireless charging micro-USB box  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 1: Transmit

| Frequency         | Correct | Reading | Measurement | Margin  | Limit  |
|-------------------|---------|---------|-------------|---------|--------|
| MHz               | Factor  | Level   | Level       |         |        |
|                   | dB      | dBuV    | dBuV        | dB      | dBuV   |
| <b>Line 2</b>     |         |         |             |         |        |
| <b>Quasi-Peak</b> |         |         |             |         |        |
| 0.166             | 9.587   | 39.790  | 49.377      | -16.166 | 65.543 |
| 0.197             | 9.589   | 35.690  | 45.279      | -19.378 | 64.657 |
| 0.384             | 9.597   | 35.600  | 45.197      | -14.117 | 59.314 |
| 0.873             | 9.619   | 27.200  | 36.819      | -19.181 | 56.000 |
| 11.974            | 10.070  | 14.230  | 24.300      | -35.700 | 60.000 |
| 15.045            | 10.230  | 13.250  | 23.480      | -36.520 | 60.000 |
| <b>Average</b>    |         |         |             |         |        |
| 0.166             | 9.587   | 30.970  | 40.557      | -14.986 | 55.543 |
| 0.197             | 9.589   | 26.920  | 36.509      | -18.148 | 54.657 |
| 0.384             | 9.597   | 28.410  | 38.007      | -11.307 | 49.314 |
| 0.873             | 9.619   | 20.420  | 30.039      | -15.961 | 46.000 |
| 11.974            | 10.070  | -0.600  | 9.470       | -40.530 | 50.000 |
| 15.045            | 10.230  | 2.300   | 12.530      | -37.470 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

### 3. Radiated Emission

#### 3.1. Test Equipment

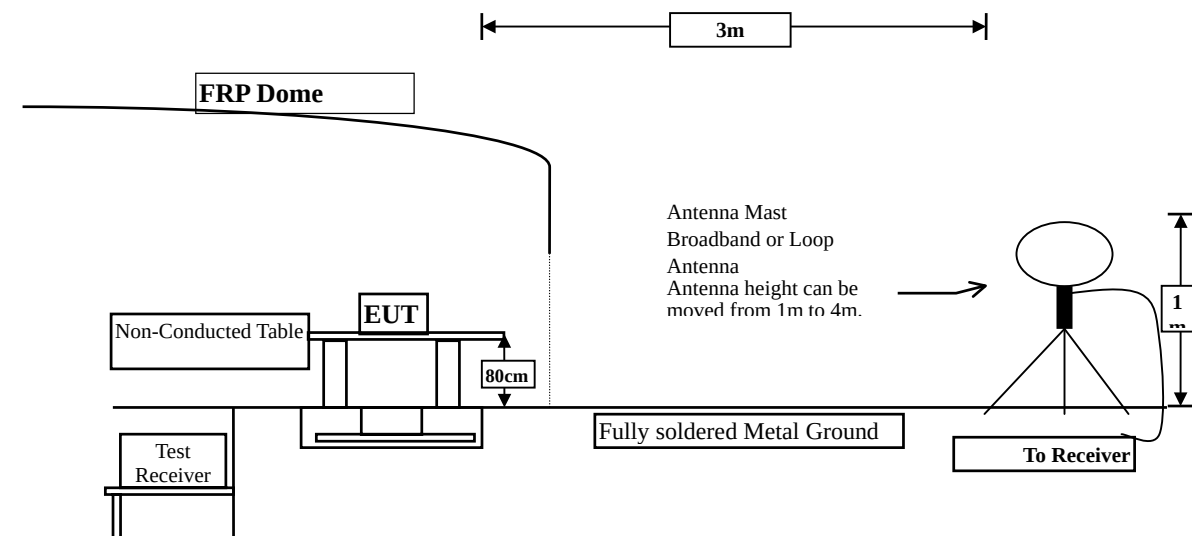
The following test equipment are used during the radiated emission test:

| Test Site  | Equipment           | Manufacturer    | Model No./Serial No.        | Last Cal.  |
|------------|---------------------|-----------------|-----------------------------|------------|
| ☒ Site # 3 | X Loop Antenna      | Teseq           | HLA6120 / 26739             | Jul., 2013 |
|            | X Bilog Antenna     | Schaffner Chase | CBL6112B/2673               | Sep., 2013 |
|            | Horn Antenna        | Schwarzbeck     | BBHA9120D/D305              | Sep., 2013 |
|            | Horn Antenna        | Schwarzbeck     | BBHA9170/208                | Jul., 2013 |
|            | X Pre-Amplifier     | QTK             | QTK-AMP-03 / 0003           | May, 2013  |
|            | Pre-Amplifier       | QTK             | AP-180C / CHM_0906076       | Sep., 2013 |
|            | Pre-Amplifier       | MITEQ           | AMF-4D-180400-45-6P/ 925975 | Mar, 2014  |
|            | X Spectrum Analyzer | Agilent         | E4407B / US39440758         | May, 2013  |
|            | X Test Receiver     | R & S           | ESCS 30/ 825442/018         | Sep., 2013 |
|            | X Coaxial Cable     | QuieTek         | QTK-CABLE/ CAB5             | Feb., 2014 |
|            | X Controller        | QuieTek         | QTK-CONTROLLER/ CTRL3       | N/A        |
|            | X Coaxial Switch    | Anritsu         | MP59B/6200265729            | N/A        |

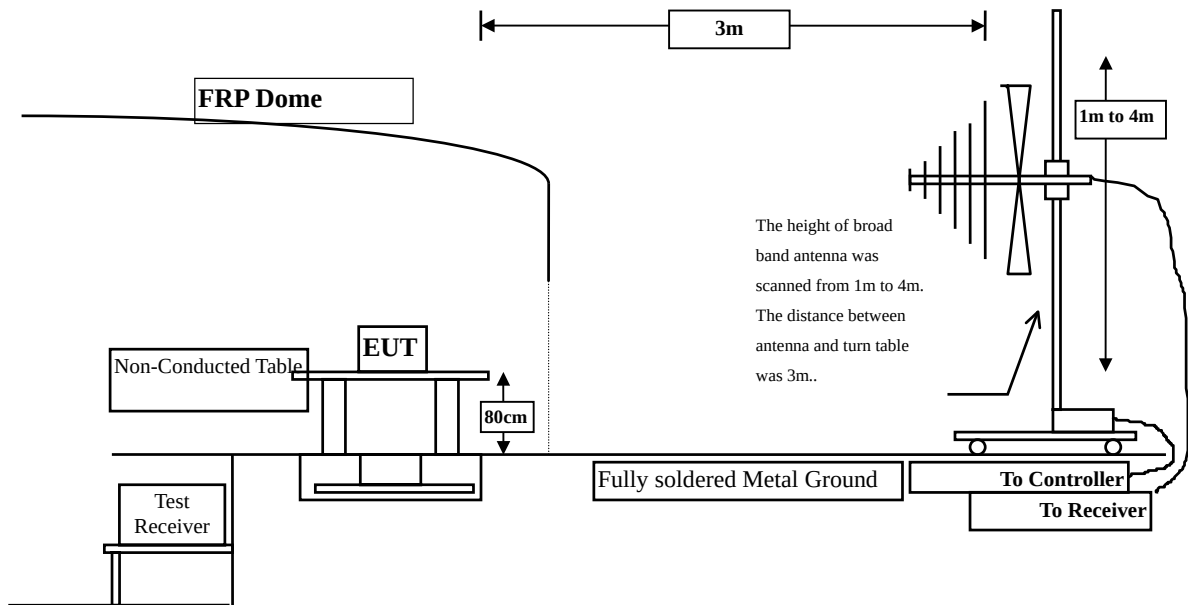
- Note:
1. All equipments are calibrated every one year.
  2. The test equipments marked by "X" are used to measure the final test results.

#### 3.2. Test Setup

Under 30MHz Test Setup



## Radiated Emission Below 1GHz



### 3.3. Limits

| FCC Part 15 Subpart B Paragraph 15.209 Limits |                                   |                               |
|-----------------------------------------------|-----------------------------------|-------------------------------|
| Frequency (MHz)                               | Field Strength (microvolts/meter) | Measurement Distance (meters) |
| 0.009 - 0.490                                 | 2,400/F(kHz)                      | 300                           |
| 0.490– 1.705                                  | 24,000/F(kHz)                     | 30                            |
| 1.705 – 30                                    | 30                                | 30                            |
| 30 – 88                                       | 100                               | 3                             |
| 88 - 216                                      | 150                               | 3                             |
| 216 - 960                                     | 200                               | 3                             |
| Above 960                                     | 500                               | 3                             |

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

### 3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table 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 are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2009 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz. Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

### 3.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

### 3.6. Test Result of Radiated Emission

Product : WPC Qi 1.1/1.0 compliance wireless charging micro-USB box  
Test Item : General Radiated Emission  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit

| Frequency         | Correct | Reading | Measurement | Margin  | Limit   |
|-------------------|---------|---------|-------------|---------|---------|
| MHz               | Factor  | Level   | Level       |         |         |
|                   | dB      | dBuV    | dBuV/m      | dB      | dBuV/m  |
| <b>Peak</b>       |         |         |             |         |         |
| <b>Horizontal</b> |         |         |             |         |         |
| 0.144             | 19.913  | 38.690  | 58.602      | -65.703 | 124.333 |
| <b>Vertical</b>   |         |         |             |         |         |
| 0.144             | 19.913  | 33.920  | 53.832      | -70.501 | 124.333 |

Note:

1. Limit=24.433dBuV/300m=  $40 \times \log(300(m)/3(m)) + 24.333 = 104.333 \text{ dBuV/m}$  (Average detector), 124.333dBuV/m (Peak detector)
2. All Readings below 1GHz are Quasi-Peak, above are average value.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : WPC Qi 1.1/1.0 compliance wireless charging micro-USB box  
 Test Item : General Radiated Emission  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit

**9kHz~30MHz**

| Frequency         | Correct | Reading | Measurement | Margin  | Limit  |
|-------------------|---------|---------|-------------|---------|--------|
|                   | Factor  | Level   | Level       |         |        |
| MHz               | dB      | dBuV    | dBuV/m      | dB      | dBuV/m |
| <b>Quasi-Peak</b> |         |         |             |         |        |
| <b>Horizontal</b> |         |         |             |         |        |
| 0.291             | 19.799  | 16.260  | 36.060      | -62.266 | 98.326 |
| 0.436             | 19.756  | 19.000  | 38.756      | -56.058 | 94.814 |
| 0.582             | 19.710  | 12.000  | 31.710      | -40.596 | 72.306 |
| 0.728             | 19.646  | 14.990  | 34.636      | -35.726 | 70.362 |
| 0.837             | 19.642  | 13.260  | 32.902      | -36.248 | 69.150 |
| 1.018             | 19.642  | 13.550  | 33.193      | -34.256 | 67.449 |
| 1.164             | 19.666  | 12.290  | 31.956      | -34.329 | 66.285 |
| 1.310             | 19.693  | 14.290  | 33.983      | -31.276 | 65.259 |
| <b>Vertical</b>   |         |         |             |         |        |
| 0.291             | 19.799  | 15.290  | 35.090      | -63.236 | 98.326 |
| 0.436             | 19.756  | 18.229  | 37.985      | -56.829 | 94.814 |
| 0.582             | 19.710  | 10.140  | 29.850      | -42.456 | 72.306 |
| 0.727             | 19.646  | 16.150  | 35.796      | -34.578 | 70.374 |
| 0.873             | 19.641  | 11.290  | 30.931      | -37.853 | 68.784 |
| 1.018             | 19.642  | 14.150  | 33.793      | -33.656 | 67.449 |
| 1.164             | 19.666  | 12.140  | 31.806      | -34.479 | 66.285 |
| 1.310             | 19.693  | 10.260  | 29.953      | -35.306 | 65.259 |

Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : WPC Qi 1.1/1.0 compliance wireless charging micro-USB box  
Test Item : General Radiated Emission  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit

### 30MHz~1GHz

| Frequency         | Correct | Reading | Measurement | Margin  | Limit  |
|-------------------|---------|---------|-------------|---------|--------|
|                   | Factor  | Level   | Level       |         |        |
| MHz               | dB      | dBuV    | dBuV/m      | dB      | dBuV/m |
| <b>Horizontal</b> |         |         |             |         |        |
| 104.615           | -16.200 | 44.308  | 28.108      | -15.392 | 43.500 |
| 232.083           | -18.650 | 36.635  | 17.985      | -28.015 | 46.000 |
| 393.750           | -11.212 | 32.089  | 20.877      | -25.123 | 46.000 |
| 636.250           | -5.885  | 30.457  | 24.572      | -21.428 | 46.000 |
| 844.551           | -5.464  | 29.061  | 23.597      | -22.403 | 46.000 |
| 962.692           | -5.530  | 30.040  | 24.510      | -29.490 | 54.000 |
| <b>Vertical</b>   |         |         |             |         |        |
| 106.170           | -16.177 | 44.449  | 28.272      | -15.228 | 43.500 |
| 230.529           | -12.045 | 44.023  | 31.979      | -14.021 | 46.000 |
| 412.404           | -11.506 | 43.147  | 31.641      | -14.359 | 46.000 |
| 561.635           | -9.717  | 38.638  | 28.921      | -17.079 | 46.000 |
| 824.343           | -6.711  | 36.351  | 29.640      | -16.360 | 46.000 |
| 922.276           | -5.034  | 36.901  | 31.867      | -14.133 | 46.000 |

#### Note:

1. The reading levels below 1GHz are quasi-peak values.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

#### 4. 99% Occupied Bandwidth

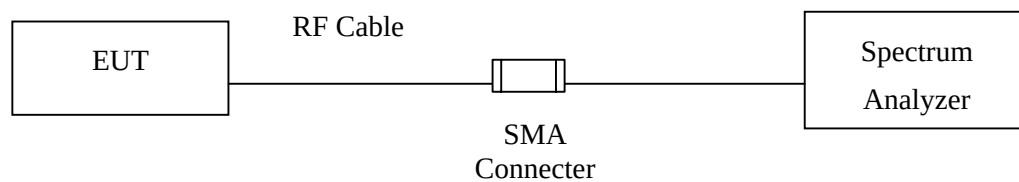
##### 4.1. Test Equipment

The following test equipments are used during the radiated emission tests:

|   | Equipment         | Manufacturer | Model No./Serial No. | Last Cal.  |
|---|-------------------|--------------|----------------------|------------|
|   | Spectrum Analyzer | R&S          | FSP40 / 100170       | Jun, 2013  |
|   | Spectrum Analyzer | Agilent      | E4407B / US39440758  | Jun, 2013  |
| X | Spectrum Analyzer | Agilent      | N9010A / MY48030495  | Apr., 2013 |

Note: 1. All instruments are calibrated every one year.  
2. The test instruments marked by “X” are used to measure the final test results.

##### 4.2. Test Setup



##### 4.3. Limits

No Required

##### 4.4. Uncertainty

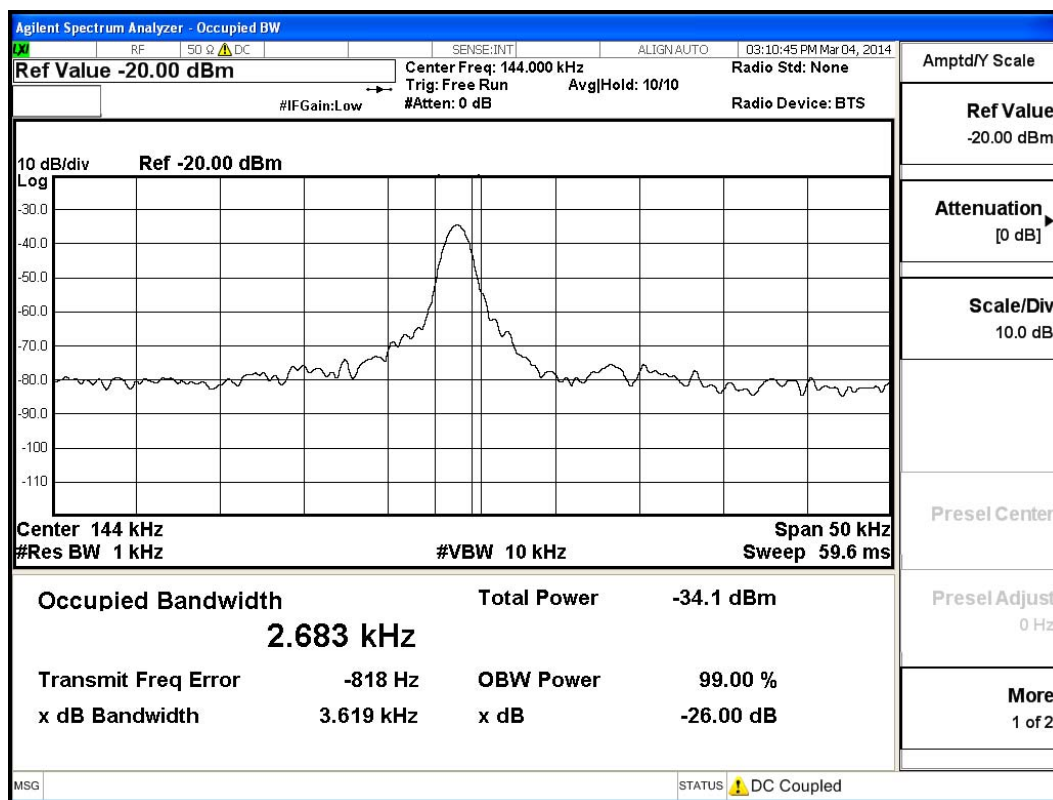
± 150Hz

#### 4.5. Test Result of 99% Occupied Bandwidth

Product : WPC Qi 1.1/1.0 compliance wireless charging micro-USB box  
 Test Item : 99% Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit

| Channel No. | Frequency (kHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 1           | 144             | 2.683                   | --                   | Pass   |

#### Channel 01: (144kHz)



## 5. EMI Reduction Method During Compliance Testing

No modification was made during testing.