

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT  
INTENTIONAL RADIATOR CERTIFICATION TO  
FCC PART 15 SUBPART C REQUIREMENT**

*OF*

**CCA ELECTRONIC FACTORY**

**Wireless Charger**

**MODEL No.: QI-1206A**

**FCC ID: SYMQI-1206A**

**Trademark: CCA**

**REPORT NO: ES130201002E**

**ISSUE DATE: March 12, 2013**

*Prepared for*

**CCA ELECTRONIC FACTORY  
Building 82-83th, Pinghuan Industrial City, PingShan Town, LongGang  
District, ShenZhen City, China.**

*Prepared by*

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## VERIFICATION OF COMPLIANCE

|                      |                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Applicant:           | CCA ELECTRONIC FACTORY<br>Building 82-83th, Pinghuan Industrial City, PingShan Town, LongGang District, ShenZhen City, China. |
| Manufacturer:        | CCA ELECTRONIC FACTORY<br>Building 82-83th, Pinghuan Industrial City, PingShan Town, LongGang District, ShenZhen City, China. |
| Product Description: | Wireless Charger                                                                                                              |
| Model Number:        | QI-1206A                                                                                                                      |
| Trademark:           | CCA                                                                                                                           |
| File Number:         | ES130201002E                                                                                                                  |
| Date of Test:        | February 25, 2013 to March 08, 2013                                                                                           |

### We hereby certify that:

The above equipment was tested by SHENZHEN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : June 16, 2012 to October 18, 2012

Prepared by :

Aaron Lai/Editor

Reviewer :

King Wang/Supervisor



Approve & Authorized Signer :

Lisa Wang/Manager

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## 1 General Information

### 1.1 Product Description

A major technical descriptions of EUT is described as following:

|                      |                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------|
| Product              | QI WIRELESS CHARGER                                                                                 |
| Model Number         | QI-1206A                                                                                            |
| Power Supply         | M/N:YLS0301E-X180100<br>Input: 100-240V~, 60/50Hz, 0.8A<br>Output: 18V $\overline{\text{---}}$ , 1A |
| Receiver Frequency   | 110-205KHz                                                                                          |
| Modulation Technique | Induction                                                                                           |
| Antenna Type         | Induction coil                                                                                      |

### 1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: SYMQI-1206A filing to comply with the FCC Part 15, Subpart C Rules.

### 1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

### 1.4 Special Accessories

Not available for this EUT intended for grant.

### 1.5 Equipment Modifications

Not available for this EUT intended for grant.

### 1.6 Test Facility

#### Site Description

#### EMC Lab.

: Accredited by CNAS, 2010.10.29  
The certificate is valid until 2013.10.28  
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01: 2006(identical to ISO/IEC17025: 2005)  
The Certificate Registration Number is L2291

Accredited by TUV Rheinland Shenzhen 2010.5.25  
The Laboratory has been assessed according to the requirements ISO/IEC 17025

Accredited by FCC, October 28, 2010  
The Certificate Registration Number is 406365.

Accredited by Industry Canada, March 05, 2010  
The Certificate Registration Number is 46405-4480.

#### Name of Firm

: SHENZHEN EMTEK CO., LTD.

#### Site Location

: Bldg 69, Majialong Industry Zone,  
Nanshan District, Shenzhen, Guangdong, China

## 2 System Test Configuration

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

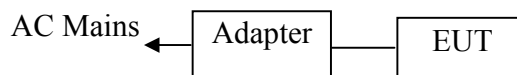
The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009.

### 2.4 Configuration of Tested System

**Fig. 2-1 Configuration of Tested System**



**Table 2-1 Equipment Used in Tested System**

| Item | Equipment        | Mfr/Brand                    | Model/Type No. | FCC ID          | Series No. | Note |
|------|------------------|------------------------------|----------------|-----------------|------------|------|
| 1.   | Wireless Charger | CCA<br>ELECTRONIC<br>FACTORY | QI-1206A       | SYM<br>QI-1206A | N/A        | EUT  |
|      |                  |                              |                |                 |            |      |

**Note:**

- (1) Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment.

### 3 Summary of Test Results

| FCC Rules | Description Of Test         | Result    |
|-----------|-----------------------------|-----------|
| §15.207   | AC Power Conducted Emission | Compliant |
| §15.209   | Radiated Emission           | Compliant |

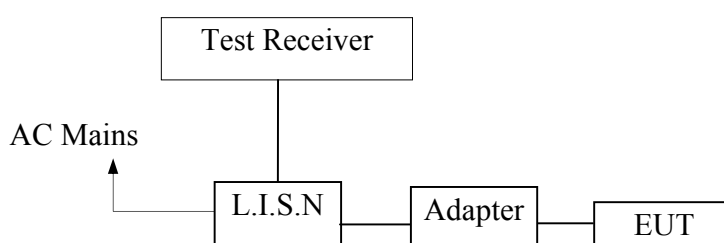


## 4 Conducted Emissions Test

### 4.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

### 4.2 Test SET-UP (Block Diagram of Configuration)



### 4.3 Measurement Equipment Used

| Conducted Emission Test Site |                 |              |               |            |            |
|------------------------------|-----------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE               | MFR             | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Test Receiver                | Rohde & Schwarz | ESCS30       | 828985/018    | 05/29/2012 | 05/28/2013 |
| L.I.S.N.                     | Schwarzbeck     | NNLK8129     | 8129203       | 05/29/2012 | 05/28/2013 |
| 50Ω Coaxial Switch           | Anritsu         | MP59B        | M20531        | N/A        | N/A        |
| Pulse Limiter                | Rohde & Schwarz | ESH3-Z2      | 100006        | 05/29/2012 | 05/28/2013 |
| Voltage Probe                | Rohde & Schwarz | TK9416       | N/A           | 05/29/2012 | 05/28/2013 |
| I.S.N                        | Rohde & Schwarz | ENY22        | 1109.9508.02  | 05/29/2012 | 05/28/2013 |

### 4.4 Conducted Emission Limit

| Conducted Emission Frequency(MHz) | Quasi-peak | Average |
|-----------------------------------|------------|---------|
| 0.15-0.5                          | 66-56      | 56-46   |
| 0.5-5.0                           | 56         | 46      |
| 5.0-30.0                          | 60         | 50      |

- Note:** 1. The lower limit shall apply at the transition frequencies  
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### 4.5 Measurement Result

|                     |                |              |         |
|---------------------|----------------|--------------|---------|
| Date of Test:       | March 02, 2013 | Temperature: | 22°C    |
| Frequency Detector: | 0.15~30MHz     | Humidity:    | 50%     |
| Test Result:        | PASS           | Test Mode:   | TX Mode |

| Test Line | Frequency MHz | Emission Level QP dB(μV) | Emission Level AV dB(μV) | Limits QP dB(μV) | Limits AV dB(μV) | Over QP dB(μV) | Over AV dB(μV) |
|-----------|---------------|--------------------------|--------------------------|------------------|------------------|----------------|----------------|
| Line      | 0.1600        | 46.48                    | 33.54                    | 64.49            | 54.49            | -18.01         | -20.95         |
|           | 0.1800        | 44.12                    | 33.87                    | 62.82            | 52.82            | -18.7          | -18.95         |
|           | 0.2200        | 42.98                    | 34.36                    | 62.10            | 52.10            | -19.12         | -17.74         |
|           | 0.2400        | 44.12                    | 33.87                    | 62.82            | 52.82            | -18.7          | -18.95         |
|           | 0.4600        | 37.47                    | 34.69                    | 56.69            | 46.69            | -19.22         | -12            |
|           | 17.1250       | 37.1                     | 31.08                    | 60.00            | 50.00            | -22.9          | -18.92         |
| Neutral   | 0.1600        | 44.12                    | 33.87                    | 62.82            | 52.82            | -18.7          | -18.95         |
|           | 0.1800        | 42.98                    | 34.36                    | 62.10            | 52.10            | -19.12         | -17.74         |
|           | 0.2200        | 44.12                    | 33.87                    | 62.82            | 52.82            | -18.7          | -18.95         |
|           | 0.2400        | 37.47                    | 34.69                    | 56.69            | 46.69            | -19.22         | -12            |
|           | 0.4600        | 37.1                     | 31.08                    | 60.00            | 50.00            | -22.9          | -18.92         |
|           | 17.1250       | 46.48                    | 33.54                    | 64.49            | 54.49            | -18.01         | -20.95         |

#### 4.6 Conducted Measurement Photo



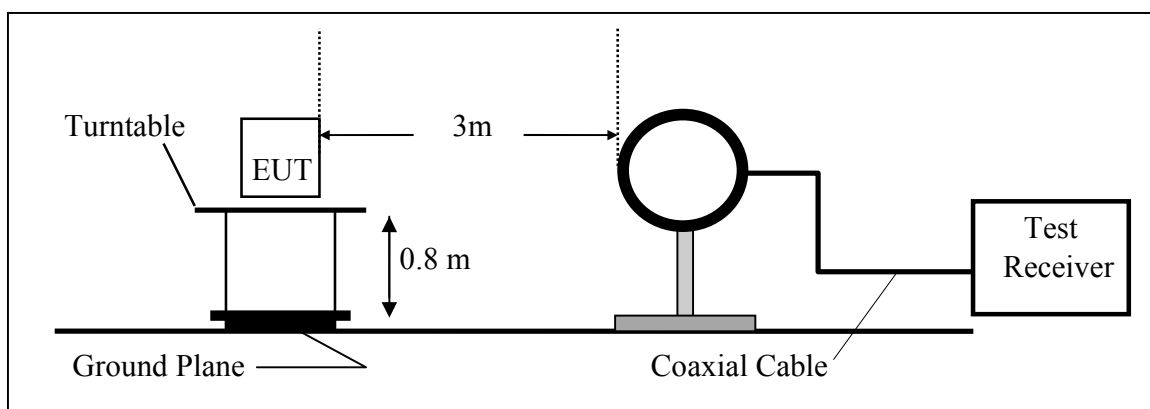
## 5 Radiated Emission Test

### 5.1 Measurement Procedure

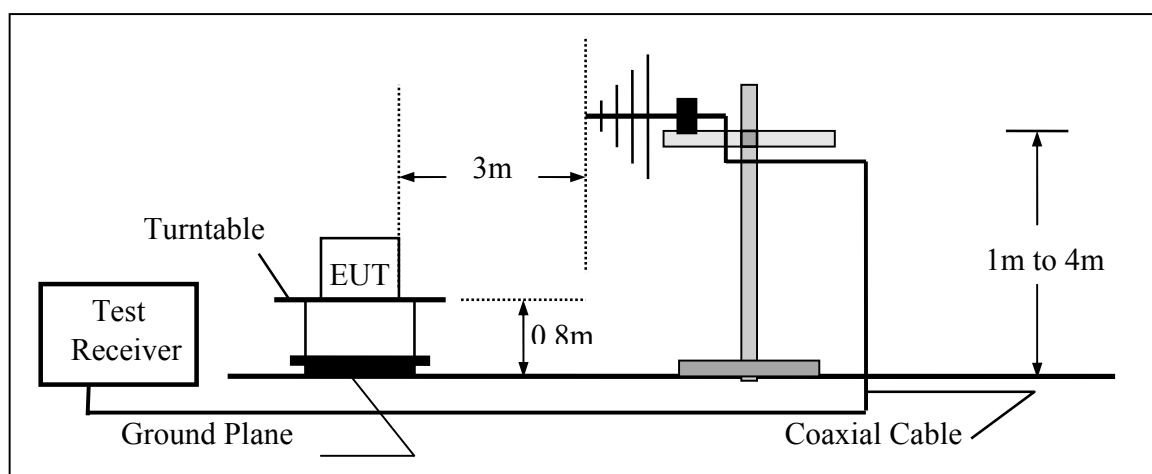
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

### 5.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



### 5.3 Measurement Equipment Used

| EQUIPMENT TYPE    | MFR             | MODEL NUMBER | SERIAL NUMBER | LAST CAL.    | CAL DUE.   |
|-------------------|-----------------|--------------|---------------|--------------|------------|
| EMI Test Receiver | Rohde & Schwarz | ESU          | 1302.6005.26  | May 29, 2012 | 05/28/2013 |
| Pre-Amplifier     | HP              | 8447D        | 2944A07999    | May 29, 2012 | 05/28/2013 |
| Bilog Antenna     | Schwarzbeck     | VULB9163     | 142           | May 29, 2012 | 05/28/2013 |
| Loop Antenna      | ARA             | PLA-1030/B   | 1029          | May 29, 2012 | 05/28/2013 |
| Horn Antenna      | Schwarzbeck     | BBHA 9170    | BBHA9170399   | May 29, 2012 | 05/28/2013 |
| Horn Antenna      | Schwarzbeck     | BBHA 9120    | D143          | May 29, 2012 | 05/28/2013 |
| Cable             | Schwarzbeck     | AK9513       | ACRX1         | May 29, 2012 | 05/28/2013 |
| Cable             | Rosenberger     | N/A          | FP2RX2        | May 29, 2012 | 05/28/2013 |
| Cable             | Schwarzbeck     | AK9513       | CRPX1         | May 29, 2012 | 05/28/2013 |
| Cable             | Schwarzbeck     | AK9513       | CRRX2         | May 29, 2012 | 05/28/2013 |

### 5.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

| FCC Part 15.209 |                           |      |                                                                 |                         |
|-----------------|---------------------------|------|-----------------------------------------------------------------|-------------------------|
| Frequency (MHz) | Field Strength Limitation |      | Field Strength Limitation Frequency tion at 3m Measurement Dist |                         |
|                 | (uV/m)                    | Dist | (uV/m)                                                          | (dBuV/m)                |
| 0.009 – 0.490   | 2400 / F(KHz)             | 300m | 10000 *<br>2400/F(KHz)                                          | 20log 2400/F(KHz) + 80  |
| 0.490 – 1.705   | 24000 / F(KHz)            | 30m  | 100 *<br>24000/F(KHz)                                           | 20log 24000/F(KHz) + 40 |
| 1.705 – 30.00   | 30                        | 30m  | 100* 30                                                         | 20log 30 + 40           |
| 30.0 – 88.0     | 100                       | 3m   | 100                                                             | 20log 100               |
| 88.0 – 216.0    | 150                       | 3m   | 150                                                             | 20log 150               |
| 216.0 – 960.0   | 200                       | 3m   | 200                                                             | 20log 200               |
| Above 960.0     | 500                       | 3m   | 500                                                             | 20log 500               |

#### 15.205 Restricted bands of operation

| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2690 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     | ( <sup>2</sup> ) |

Remark: 1. Emission level in dBuV/m=20 log (uV/m)  
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.  
3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

## 5.5 Measurement Result

Low frequency:

|                    |            |               |                |
|--------------------|------------|---------------|----------------|
| Operation Mode:    | 110.91KHz  | Test Date :   | March 02, 2013 |
| Frequency Range:   | 9KHz~30MHz | Temperature : | 28°C           |
| Test Result:       | PASS       | Humidity :    | 65 %           |
| Measured Distance: | 3m         | Test By:      | WOLF           |

| Freq.<br>(MHz) | Ant.Pol. | Emission Level<br>(dBuV/m) | Limit 3m<br>(dBuV/m) | Over<br>(dB) | Note |
|----------------|----------|----------------------------|----------------------|--------------|------|
| 0.110          | X        | 40.13                      | 107.78               | -67.65       | PK   |
| 0.149          | X        | 69.37                      | 104.14               | -34.77       | PK   |

Mid frequency:

|                    |            |               |                |
|--------------------|------------|---------------|----------------|
| Operation Mode:    | 162.80KHz  | Test Date :   | March 02, 2013 |
| Frequency Range:   | 9KHz~30MHz | Temperature : | 28°C           |
| Test Result:       | PASS       | Humidity :    | 65 %           |
| Measured Distance: | 3m         | Test By:      | WOLF           |

| Freq.<br>(MHz) | Ant.Pol. | Emission Level<br>(dBuV/m) | Limit 3m<br>(dBuV/m) | Over<br>(dB) | Note |
|----------------|----------|----------------------------|----------------------|--------------|------|
| 0.107          | X        | 43.89                      | 107.01               | -63.12       | PK   |
| 0.162          | X        | 67.86                      | 103.41               | -35.55       | PK   |

High frequency:

|                    |            |               |                |
|--------------------|------------|---------------|----------------|
| Operation Mode:    | 204.2KHz   | Test Date :   | March 02, 2013 |
| Frequency Range:   | 9KHz~30MHz | Temperature : | 28°C           |
| Test Result:       | PASS       | Humidity :    | 65 %           |
| Measured Distance: | 3m         | Test By:      | WOLF           |

| Freq.<br>(MHz) | Ant.Pol. | Emission Level<br>(dBuV/m) | Limit 3m<br>(dBuV/m) | Over<br>(dB) | Note |
|----------------|----------|----------------------------|----------------------|--------------|------|
| 0.204          | X        | 62.86                      | 101.41               | -38.55       | PK   |
| 0.424          | X        | 45.42                      | 95.05                | -49.63       | PK   |

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.



Low frequency:

|                    |            |               |                |
|--------------------|------------|---------------|----------------|
| Operation Mode:    | 110.91KHz  | Test Date :   | March 02, 2013 |
| Frequency Range:   | 30~1000MHz | Temperature : | 28°C           |
| Test Result:       | PASS       | Humidity :    | 65 %           |
| Measured Distance: | 3m         | Test By:      | WOLF           |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Emission Level<br>(dBuV/m) | Limit 3m<br>(dBuV/m) | Over<br>(dB) | Note |
|----------------|-----------------|----------------------------|----------------------|--------------|------|
| 40.55          | V               | 32.54                      | 40.00                | -7.46        | PK   |
| 63.22          | V               | 25.64                      | 40.00                | -14.36       | PK   |
| 87.66          | V               | 30.58                      | 40.00                | -9.42        | PK   |
| 137.80         | V               | 35.74                      | 43.50                | -7.76        | PK   |
| 214.00         | V               | 33.52                      | 43.50                | -9.98        | PK   |
|                |                 |                            |                      |              |      |
| 40.23          | H               | 31.38                      | 40.0                 | -8.62        | PK   |
| 101.44         | H               | 26.18                      | 43.50                | -17.32       | PK   |
| 139.65         | H               | 28.10                      | 43.50                | -15.4        | PK   |
| 214.00         | H               | 35.08                      | 43.50                | -8.42        | PK   |
| 280.19         | H               | 32.20                      | 46.00                | -13.8        | PK   |

- Note:**
- (1) All Readings are Peak Value.
  - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
  - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
  - (4) EUT lying on the table position is the worst case result in the report.

Mid frequency:

|                    |            |               |                |
|--------------------|------------|---------------|----------------|
| Operation Mode:    | 162.80KHz  | Test Date :   | March 02, 2013 |
| Frequency Range:   | 30~1000MHz | Temperature : | 28°C           |
| Test Result:       | PASS       | Humidity :    | 65 %           |
| Measured Distance: | 3m         | Test By:      | WOLF           |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Emission Level<br>(dBuV/m) | Limit 3m<br>(dBuV/m) | Over<br>(dB) | Note |
|----------------|-----------------|----------------------------|----------------------|--------------|------|
| 41.53          | V               | 31.76                      | 40                   | -8.24        | PK   |
| 64.2           | V               | 24.86                      | 40                   | -15.14       | PK   |
| 88.64          | V               | 29.8                       | 40                   | -10.2        | PK   |
| 138.43         | V               | 34.96                      | 43.5                 | -8.54        | PK   |
| 214.63         | V               | 32.74                      | 43.5                 | -10.76       | PK   |
|                |                 |                            |                      |              |      |
| 41.21          | H               | 30.6                       | 40                   | -9.4         | PK   |
| 102.42         | H               | 25.4                       | 43.5                 | -18.1        | PK   |
| 140.63         | H               | 27.32                      | 43.5                 | -16.18       | PK   |
| 214.63         | H               | 34.3                       | 43.5                 | -9.2         | PK   |
| 280.82         | H               | 31.42                      | 46                   | -14.58       | PK   |

- Note:**
- (1) All Readings are Peak Value.
  - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
  - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
  - (4) EUT lying on the table position is the worst case result in the report.

High frequency:

|                    |            |               |                |
|--------------------|------------|---------------|----------------|
| Operation Mode:    | 204.2KHz   | Test Date :   | March 02, 2013 |
| Frequency Range:   | 30~1000MHz | Temperature : | 28°C           |
| Test Result:       | PASS       | Humidity :    | 65 %           |
| Measured Distance: | 3m         | Test By:      | WOLF           |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Emission Level<br>(dBuV/m) | Limit 3m<br>(dBuV/m) | Over<br>(dB) | Note |
|----------------|-----------------|----------------------------|----------------------|--------------|------|
| 40.87          | V               | 31.98                      | 40                   | -8.02        | PK   |
| 63.54          | V               | 25.08                      | 40                   | -14.92       | PK   |
| 87.98          | V               | 30.02                      | 40                   | -9.98        | PK   |
| 138.12         | V               | 35.18                      | 43.5                 | -8.32        | PK   |
| 214.32         | V               | 32.96                      | 43.5                 | -10.54       | PK   |
|                |                 |                            |                      |              |      |
| 40.55          | H               | 30.82                      | 40                   | -9.18        | PK   |
| 101.76         | H               | 25.62                      | 43.5                 | -17.88       | PK   |
| 139.97         | H               | 27.54                      | 43.5                 | -15.96       | PK   |
| 214.32         | H               | 34.52                      | 43.5                 | -8.98        | PK   |
| 280.51         | H               | 31.64                      | 46                   | -14.36       | PK   |

**Note:**

- (1) All Readings are Peak Value.
- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT lying on the table position is the worst case result in the report.

## 5.6 Radiated Measurement Photos

