

# ***FCC TEST REPORT***

**FCC ID** : A7AG2100B  
**Applicant** : TI Asahi Co., Ltd.  
**Address** : 4-3-4, Ueno, Iwatsuki-ku, Saitama-shi, Saitama 339-0073 Japan

**Equipment Under Test (EUT) :**

Product Name : GNSS  
Model No. : G2100, G2100B, G2100R

**Standards** : FCC Part 15 Section 15.109:2010

**Date of Test** : Sep. 11 ~ Sep. 14, 2012

**Date of Issue** : Sep. 18, 2012

**Test Engineer** : Zero zhou / Engineer



**Reviewed By** : Philo zhong / Manager



|                    |               |
|--------------------|---------------|
| <b>Test Result</b> | <b>: PASS</b> |
|--------------------|---------------|

**Prepared By:**

**Waltek Services (Shenzhen) Co., Ltd.**

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- ✧ The sample detailed above has been tested to the requirements of Council Directives ANSI C63.4:2003. The test results have been reviewed against the Directives above and found to meet their essential requirements.

The results shown in this test report refer only to the sample(s) tested , This Test report cannot be reproduced, except in full, without prior written permission of the Company.

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Reference No.: WT12096172-S-S-F

## 2 Test Summary

| Test   | Test Requirement     | Test Method      | Result |
|--|----------------------|------------------|--------|
| Radiated Emission for GNSS<br>(30MHz to 26.5GHz) | FCC Part 15.109:2010 | ANSI C63.4: 2003 | PASS   |
| Radiated Emission for Charger<br>(30MHz to 1GHz) | FCC Part 15.109:2010 | ANSI C63.4: 2003 | PASS   |
| Conducted Emission<br>(150KHz to 30MHz)          | FCC Part 15.107:2010 | ANSI C63.4: 2003 | PASS   |

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## 4 General Information

### 4.1 Client Information

**Applicant** : TI Asahi Co., Ltd.  
**Address of Applicant** : 4-3-4, Ueno, Iwatsuki-ku, Saitama-shi, Saitama 339-0073 Japan

**Manufacturer** : TI Precision Shanghai Co., Ltd.  
**Address of Manufacturer** : No.158, Beiyang Road, Songjiang District, Shanghai

### 4.2 General Description of E.U.T.

**Product Name** : GNSS  
**Model No.** : G2100, G2100B, G2100R  
**Difference** :The difference of above models is the appearance and the model name. The interfaces,connectors,working frequency bands,functions are the same and contain the same module and module's FCC ID.

**Bluetooth Module** :FCC ID:RFR-B2029  
**Rules** :Part15 Subpart C Section 15.247  
**Quad-Band GPRS Module** :FCCID: O9EQ24PL001  
**Rules** :FCC Part 22 and 24.

### 4.3 Details of E.U.T.

**GNSS Technical Data** : 7.4V Li-ion Battery  
12.0VDC by lead-acid battery  
Adapter input: 100-240V AC, 50/60Hz, 1.7A  
Adapter output: 19V DC, 3.16A

### 4.4 Description of Support Units

The EUT has been tested as an independent unit.

### 4.5 Standards Applicable for Testing

The standards used were FCC Part15 Subpart B Section 15.107 and Section 15.109.

#### 4.6 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A**

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A, July 12, 2012.

- **FCC – Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, May 26, 2011.

#### 4.7 Test Location

All the tests were performed at:

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen, China

## 5 Equipment Used during Test

| Equipment Name   | Manufacturer Model                    | Equipment No. | Internal No. | Specification | Cal. Date   | Due Date    | Uncertainty                                     |
|--|---------------------------------------|---------------|--------------|---------------|-------------|-------------|---|
| EMC Analyzer   | Agilent/ E7405A                       | MY45114943    | W2008001     | 9k-26.5GHz    | Aug.2, 2012 | Aug.1, 2013 | ±1dB  |
| Trilog Broadband Antenne 30-3000 MHz   | SCHWARZBEC K MESS-ELEKTROM/ VULB9163  | 336           | W2008002     | 30-3000 MHz   | Aug.2, 2012 | Aug.1, 2013 | ±1dB  |
| Broad-band Horn Antenna 1-18 GHz   | SCHWARZBEC K MESS-ELEKTROM/ BBHA9120D | 667           | W2008003     | 1-18GHz       | Aug.2, 2012 | Aug.1, 2013 | f < 10 GHz : ±1dB<br>10GHz < f < 18GHz : ±1.5dB |
| Broadband Preamplifier 0.5-18 GHz  | SCHWARZBEC K MESS-ELEKTROM/ BBV 9718  | 9718-148      | W2008004     | 0.5-18GHz     | Aug.2, 2012 | Aug.1, 2013 | ±1.2dB  |
| 10m Coaxial Cable with N-male Connectors usable up to 18GHz,                             | SCHWARZBEC K MESS-ELEKTROM/A K 9515 H | -             | -            | -             | Aug.2, 2012 | Aug.1, 2013 | -   |
| 10m 50 Ohm Coaxial Cable with N-plug, individual length, usable up to 3(5)GHz, Connector | SCHWARZBEC K MESS-ELEKTROM/A K 9513   | -             | -            | -             | Aug.2, 2012 | Aug.1, 2013 | -   |
| Positioning Controller   | C&C LAB/ CC-C-IF                      | -             | -            | -             | N/A         | N/A         | -   |
| Color Monitor  | SUNSP0/ SP-14C                        | -             | -            | -             | N/A         | N/A         | -   |
| Test Receiver  | ROHDE&SCHWARZ/ ESPI                   | 101155        | W2005001     | 9k-3GHz       | Aug.2, 2012 | Aug.1, 2013 | ±1dB  |
| Two-Line V-Network   | ROHDE&SCHWARZ/ ENV216                 | 100115        | W2005002     | 50Ω/50μH      | Aug.2, 2012 | Aug.1, 2013 | ±10%  |
| V—LISN   | SCHWARZBEC K MESS-ELEKTRONIK          | NSLK 8128     | 8128-259     | 9k-30MHz      | Aug.2, 2012 | Aug.1, 2013 | -   |
| PC   | Lenovo                                | T2900D        | -            | -             | Aug.2, 2012 | Aug.1, 2013 | ±1dB  |
| Display  | ViewSonic                             | S27996-1W     | -            | -             | Aug.2, 2012 | Aug.1, 2013 | ±0.5dB  |
| K/B  | Dell                                  | L100          | -            | -             | Aug.2, 2012 | Aug.1, 2013 | ±0.5dB  |
| Mouse  | Acer                                  | M-UVACR1      | -            | -             | Aug.2, 2012 | Aug.1, 2013 | ±0.5dB  |

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## 6 Conducted Emission Data

|                   |  |
|-------------------|--|
| Test Requirement: | FCC Part 15 Section 15.107   |
| Test Method:      | ANSI C63.4:2003  |
| Test Result:      | PASS   |
| Frequency Range:  | 150kHz to 30MHz  |
| Class:            | Class B  |
| Limit:            | 66-56 dB $\mu$ V between 0.15MHz & 0.5MHz<br>56 dB $\mu$ V between 0.5MHz & 5MHz<br>60 dB $\mu$ V between 5MHz & 30MHz |
| Detector:         | Peak for pre-scan (9kHz Resolution Bandwidth)<br>Quasi-Peak & Average if maximised peak within 6dB of<br>Average Limit |

### 6.1 E.U.T. Operation

#### Operating Environment:

Temperature: 25.5 °C

Humidity: 51 % RH

Atmospheric Pressure: 1012 hPa

#### EUT Operation:

Compliance test was performed in charging mode for charger, communication with PC mode powered by built-in Li-ion battery and DC 12V lead-acid battery respectively for GNSS. The data shown as follow is the worst charging mode.

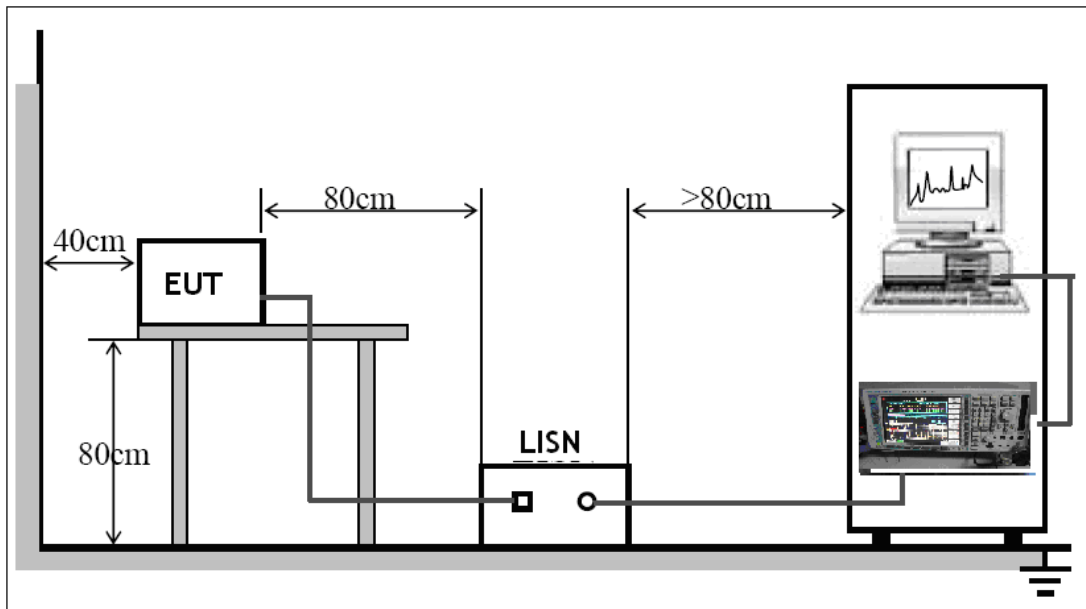
### 6.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a conducted emissions measurement at Waltek EMC Lab is  $\pm 3.64$ dB.

### 6.3 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Subpart B Section 15.107 limits.



The EUT was placed on the test table in shielding room.

### 6.4 Spectrum Analyzer Setup

According to FCC Part15 Subpart B Rules, the GNSS was tested from 150kHz to 30MHz and the Charger was tested from 150kHz to 30MHz.

|                           |         |
|---------------------------|---------|
| Start Frequency .....     | 150 kHz |
| Stop Frequency.....       | 30MHz   |
| Scan time.....            | 10ms    |
| Step.....                 | 4kHz    |
| Resolution Bandwidth..... | 9kHz    |

### 6.5 Test Procedure

1. The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.
2. The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line. Only the worst case is shown in the report.

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## 6.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$

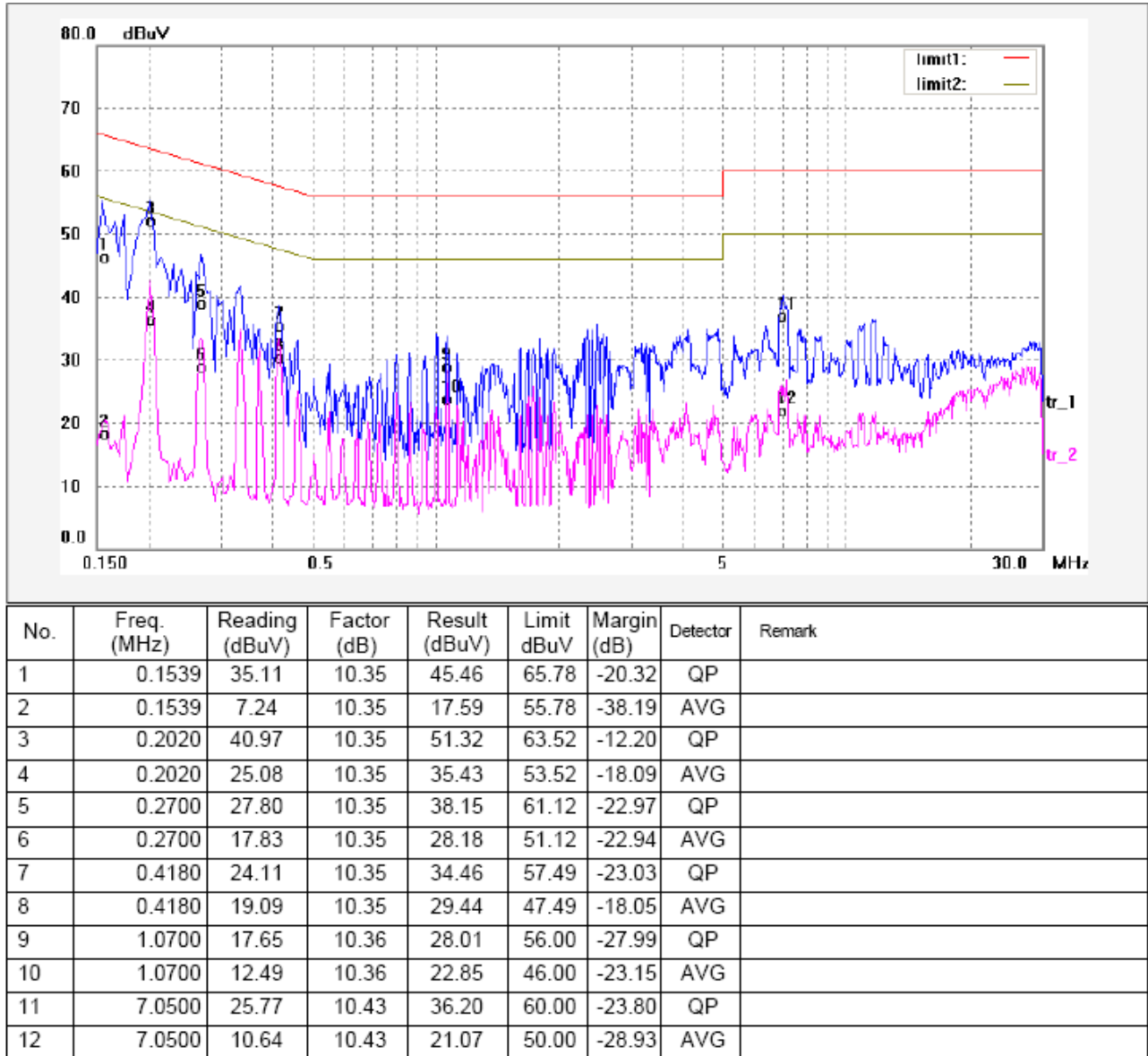
## 6.7 Summary of Test Results

An initial pre-scan was performed on the live and neutral lines.

Refer to the spectrum analyzer data chart on the following pages.

Charging mode:

*Live line:*

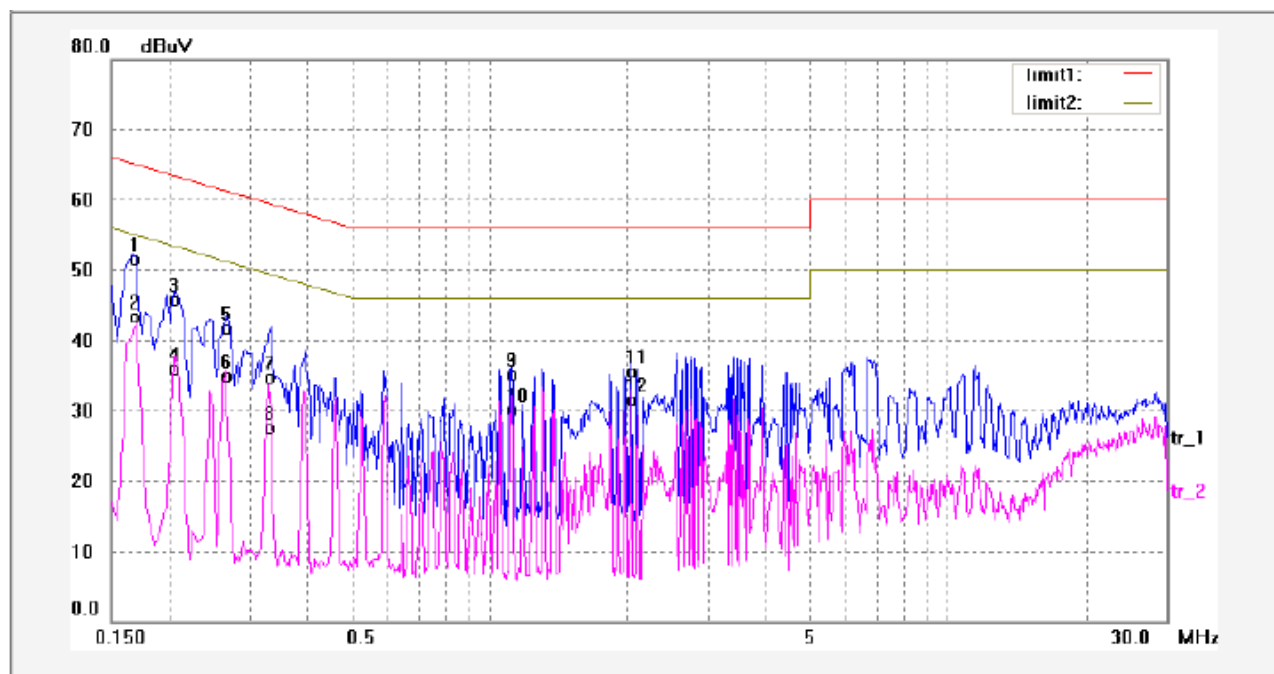


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Neutral line:



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Margin (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|------------|-------------|----------|--------|
| 1   | 0.1660      | 40.28          | 10.35       | 50.63         | 65.15      | -14.52      | QP       |        |
| 2   | 0.1660      | 32.25          | 10.35       | 42.60         | 55.15      | -12.55      | AVG      |        |
| 3   | 0.2060      | 34.58          | 10.35       | 44.93         | 63.36      | -18.43      | QP       |        |
| 4   | 0.2060      | 24.75          | 10.35       | 35.10         | 53.36      | -18.26      | AVG      |        |
| 5   | 0.2660      | 30.58          | 10.35       | 40.93         | 61.24      | -20.31      | QP       |        |
| 6   | 0.2660      | 23.72          | 10.35       | 34.07         | 51.24      | -17.17      | AVG      |        |
| 7   | 0.3339      | 23.56          | 10.35       | 33.91         | 59.35      | -25.44      | QP       |        |
| 8   | 0.3339      | 16.31          | 10.35       | 26.66         | 49.35      | -22.69      | AVG      |        |
| 9   | 1.1180      | 23.94          | 10.36       | 34.30         | 56.00      | -21.70      | QP       |        |
| 10  | 1.1180      | 18.94          | 10.36       | 29.30         | 46.00      | -16.70      | AVG      |        |
| 11  | 2.0420      | 24.37          | 10.37       | 34.74         | 56.00      | -21.26      | QP       |        |
| 12  | 2.0420      | 20.41          | 10.37       | 30.78         | 46.00      | -15.22      | AVG      |        |

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## 6.8 Photograph – Conducted Emission Test Setup



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## 7 Radiated Emission Data

|                       |   |
|-----------------------|---|
| Test Requirement:     | FCC Part 15 Subpart B Section 15.109  |
| Test Method:          | ANSI C63.4:2003   |
| Test Result:          | PASS  |
| Frequency Range:      | 30MHz to 26.5GHz  |
| Measurement Distance: | 3m  |
| Limit:                | 40.0 dB $\mu$ V/m between 30MHz & 88MHz<br>43.5 dB $\mu$ V/m between 88MHz & 216MHz<br>46.0 dB $\mu$ V/m between 216MHz & 960MHz<br>54.0 dB $\mu$ V/m above 960MHz<br>74.0 dB $\mu$ V/m between 1GHz ~ 2GHz for peak<br>54.0 dB $\mu$ V/m between 1GHz ~ 2GHz for AVG |
| Detector:             | Peak for pre-scan (120kHz resolution bandwidth)   |

### 7.1 E.U.T Operation:

#### Operating Environment:

Temperature: 25.5 °C

Humidity: 51 % RH

Atmospheric Pressure: 1012 hPa

#### EUT Operation:

Compliance test was performed in charging mode for charger, communication with PC mode powered by built-in Li-ion battery and DC 12V lead-acid battery respectively for GNSS. The worst mode is communication with PC mode powered by 12V lead-acid cell and shown as follow.

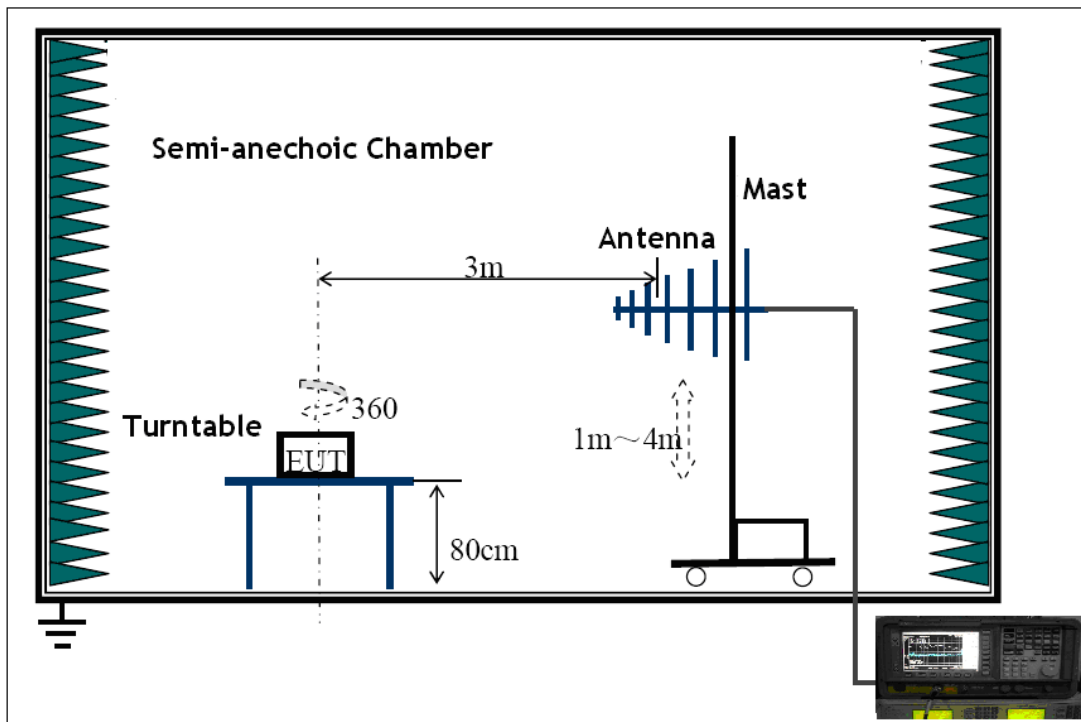
### 7.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Waltek EMC Lab is  $\pm 5.03$ dB.

### 7.3 EUT Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part 15 Subpart B Section 15.109limits.



The EUT was placed on the test table in shielding room.

### 7.4 Spectrum Analyzer Setup

According to FCC Part15 Subpart B Rules, the GNSS was tested from 30MHz to 26.5GHz and the Charger was tested from 30MHz to 1000MHz.

Below 1GHz

|                                    |         |
|------------------------------------|---------|
| Start Frequency .....              | 30 MHz  |
| Stop Frequency.....                | 1000MHz |
| Sweep Speed .....                  | Auto    |
| IF Bandwidth                       | 120 KHz |
| Video Bandwidth.....               | 100KHz  |
| Quasi-Peak Adapter Bandwidth ..... | 120 KHz |
| Quasi-Peak Adapter Mode .....      | Normal  |
| Resolution Bandwidth.....          | 100KHz  |

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Above 1GHz

Start Frequency ..... 1000 MHz  
 Stop Frequency..... 26.5GHz  
 Sweep Speed ..... Auto  
 IF Bandwidth 120 KHz  
 Video Bandwidth..... 3MHz  
 Quasi-Peak Adapter Bandwidth ..... 120 KHz  
 Quasi-Peak Adapter Mode ..... Normal  
 Resolution Bandwidth..... 1MHz

## 7.5 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

## 7.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$

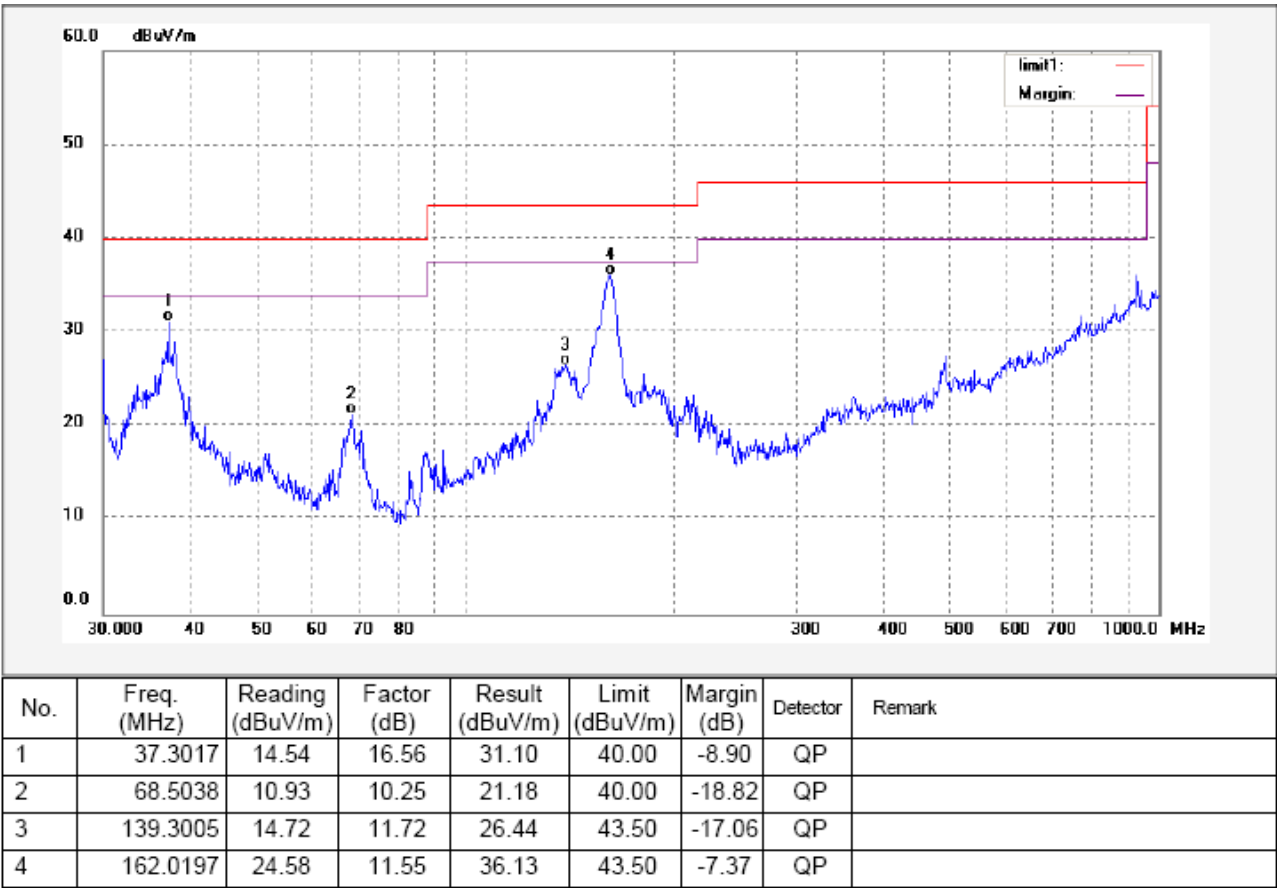
## 7.7 Summary of Test Results

According to the data in this section, the EUT complied with the FCC Part15 Subpart B Section 15.109 Rules.

Test Mode: Communicating with PC and powered by 12V lead-acid cell

Frequency Range: 30MHz ~ 1GHz

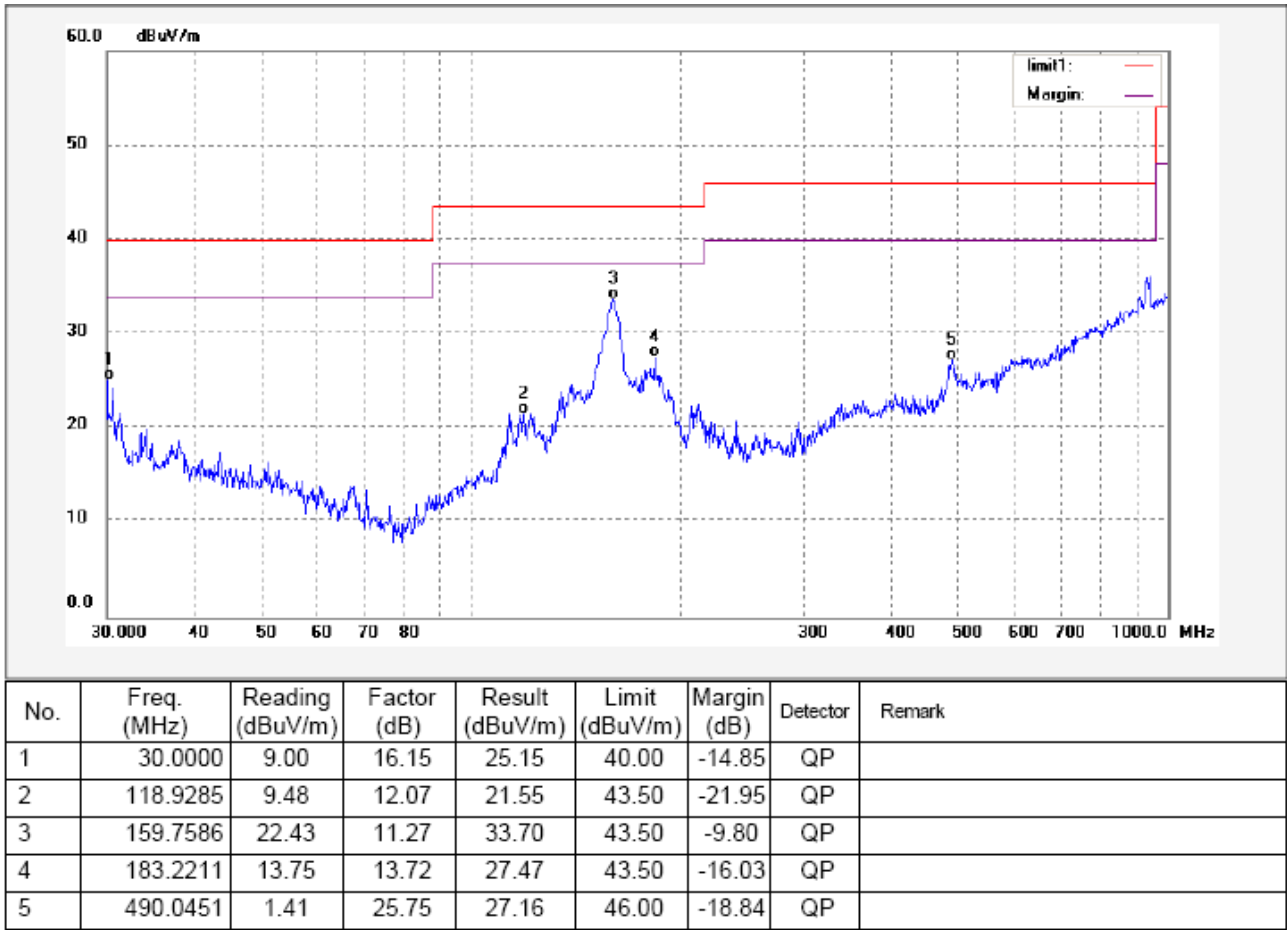
Antenna polarization: Vertical



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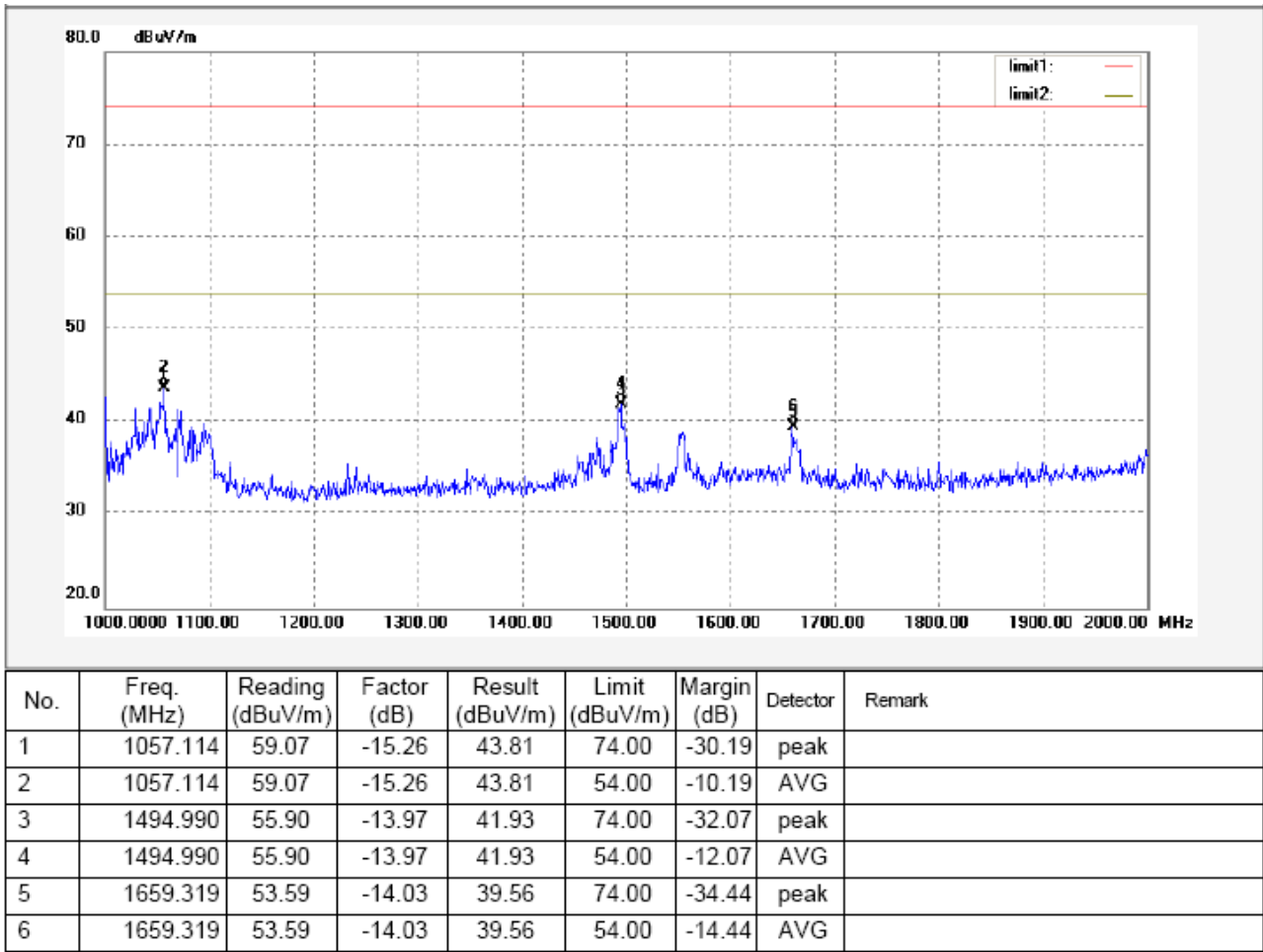


Antenna polarization: Horizontal



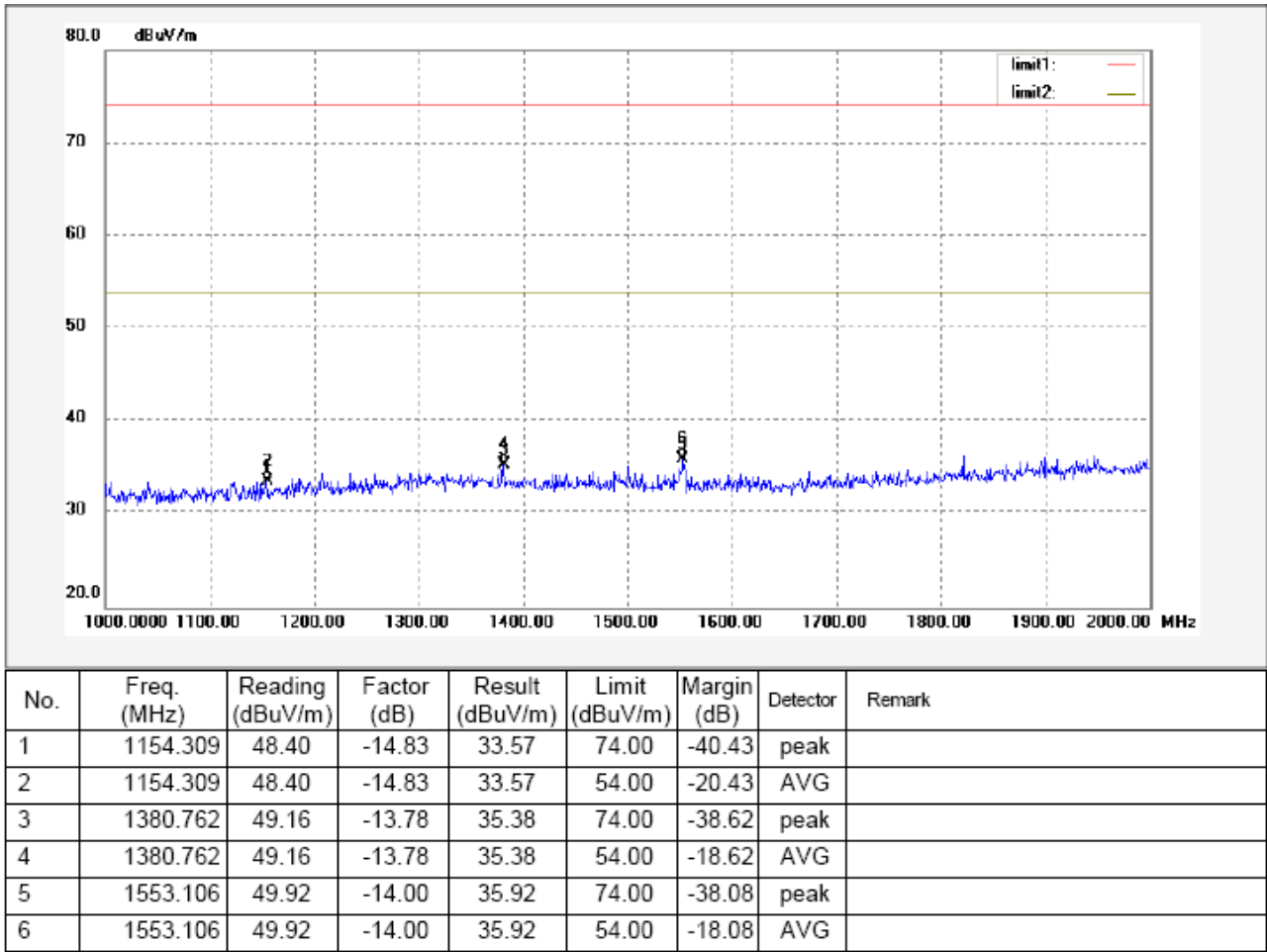
Frequency Range: 1GHz ~ 2GHz

Antenna polarization: Vertical



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Antenna polarization: Horizontal



**Remark:** the frequency above 2GHz to 26.5GHz, the signal is lower than the noise level of the spectrum, so the data won't showing in the test report.

## 7.8 Photograph – Radiated Emission Test Setup

Below 1GHz



Above 1GHz

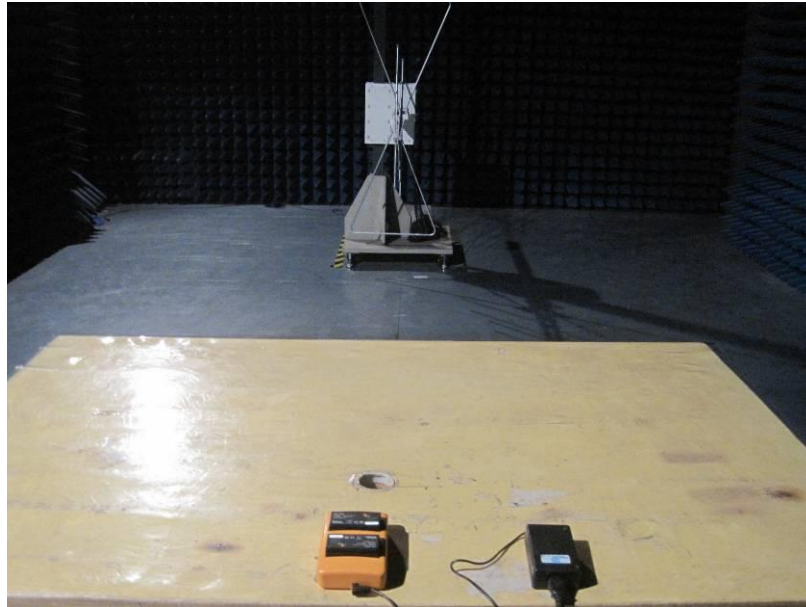


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### Test Setup for Charger



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## 8 Photographs - Constructional Details

### 8.1 EUT-Component View



### 8.2 EUT1-Appearance View





### 8.3 EUT1-Open View



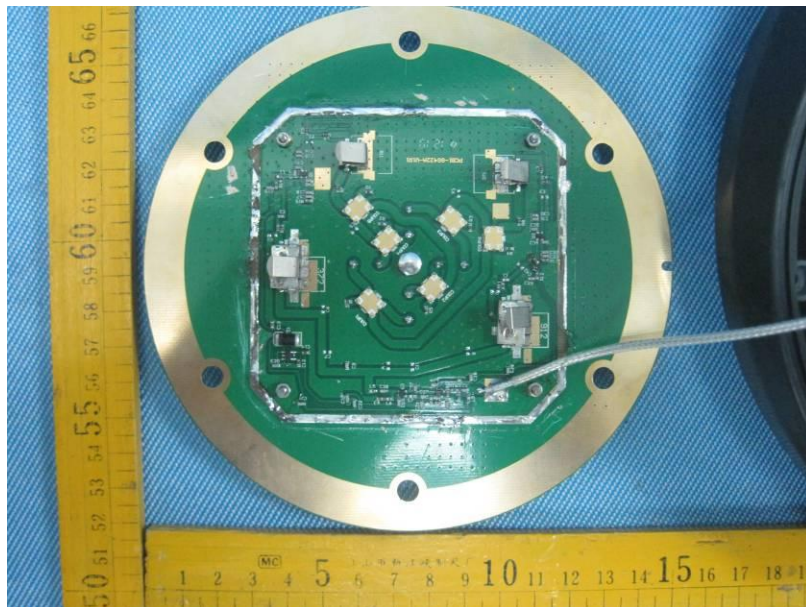
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#### 8.4 EUT1 PCB View

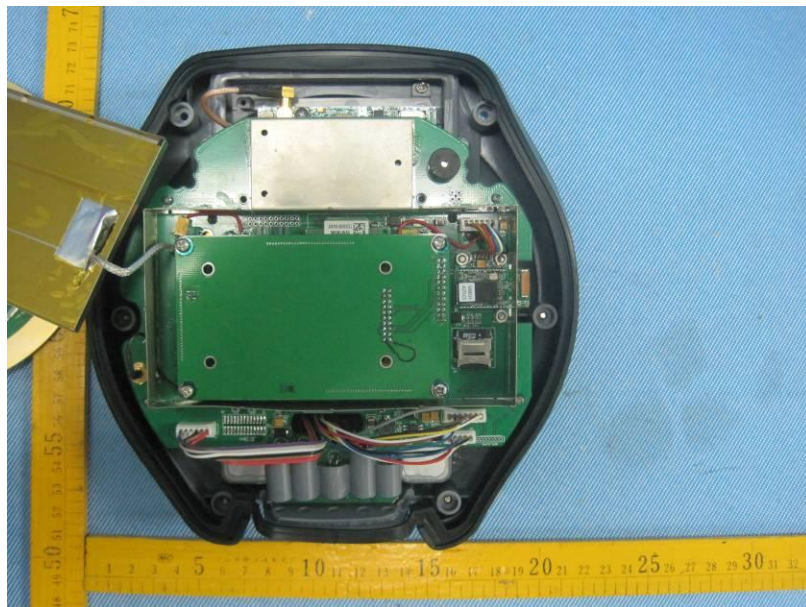
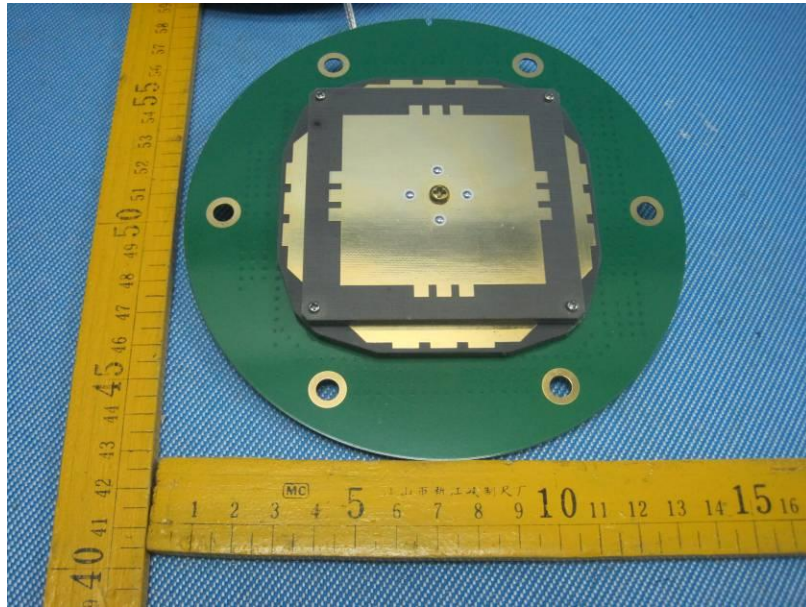


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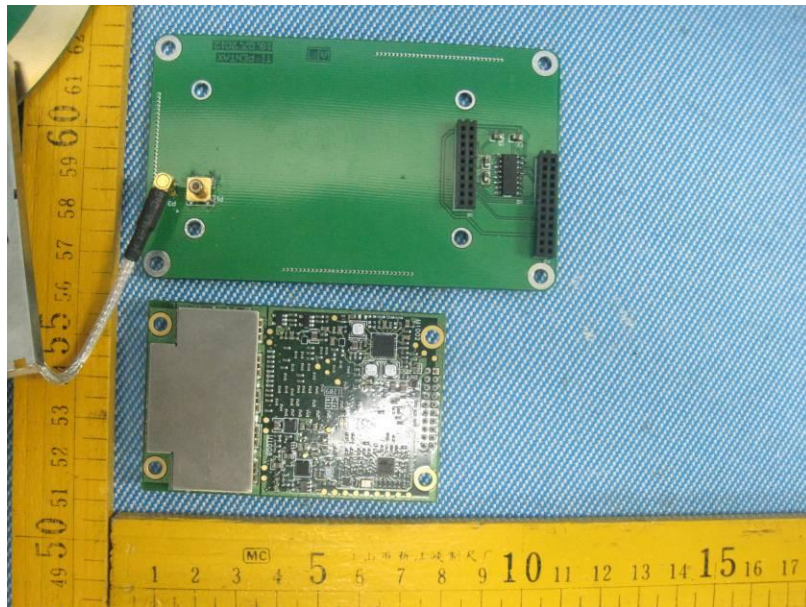




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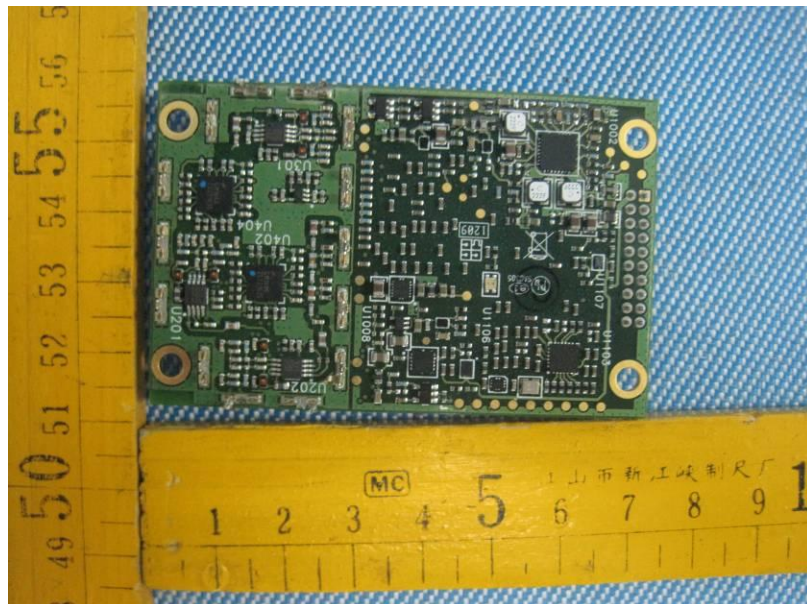


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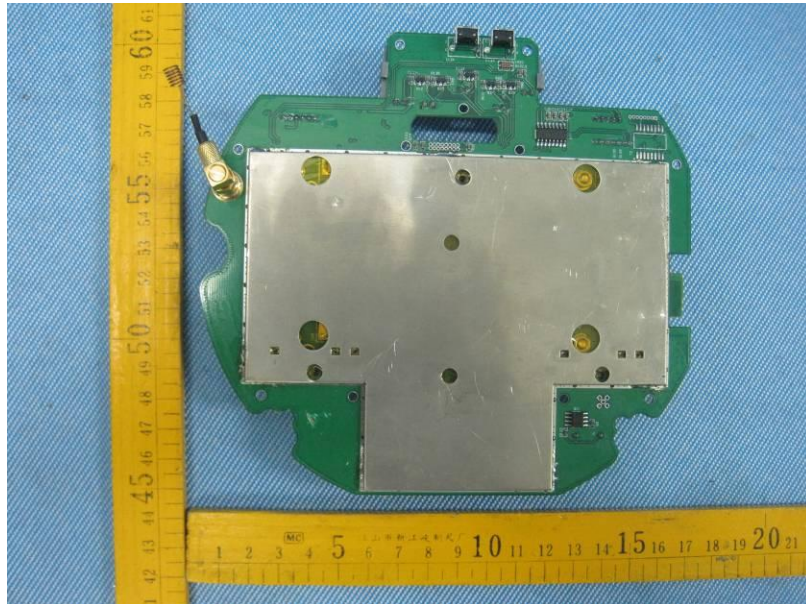
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Reference No.: WT12096172-S-S-F

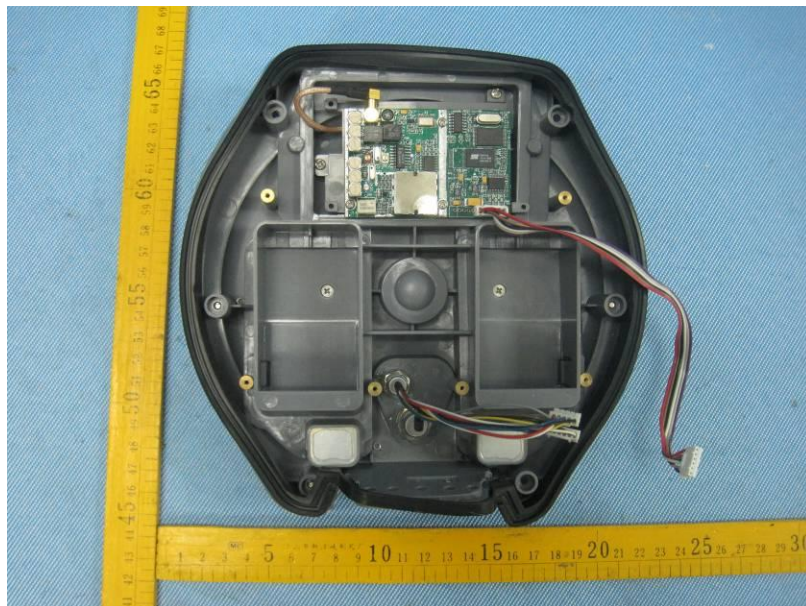


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Reference No.: WT12096172-S-S-F

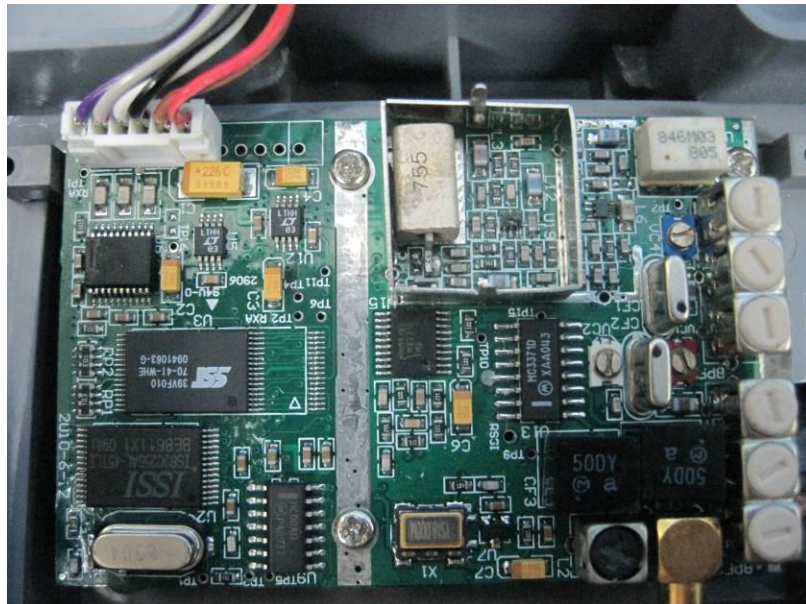
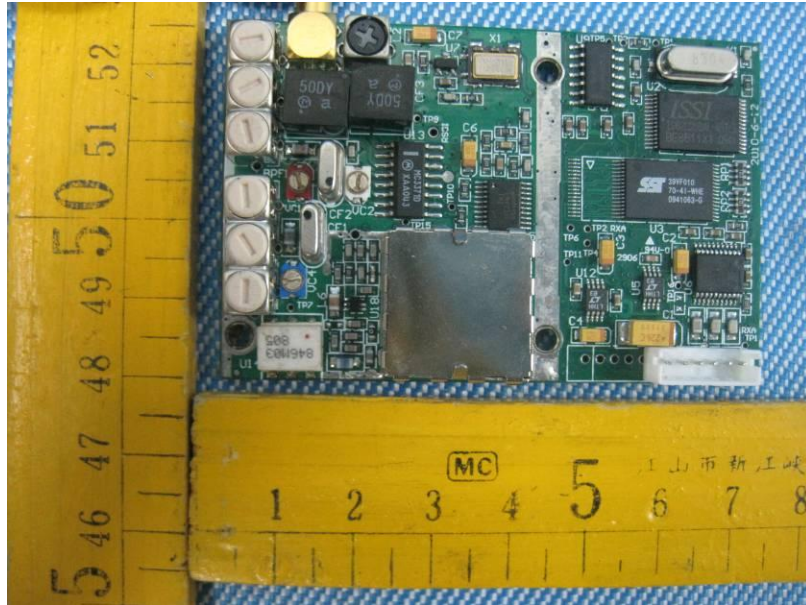




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Reference No.: WT12096172-S-S-F

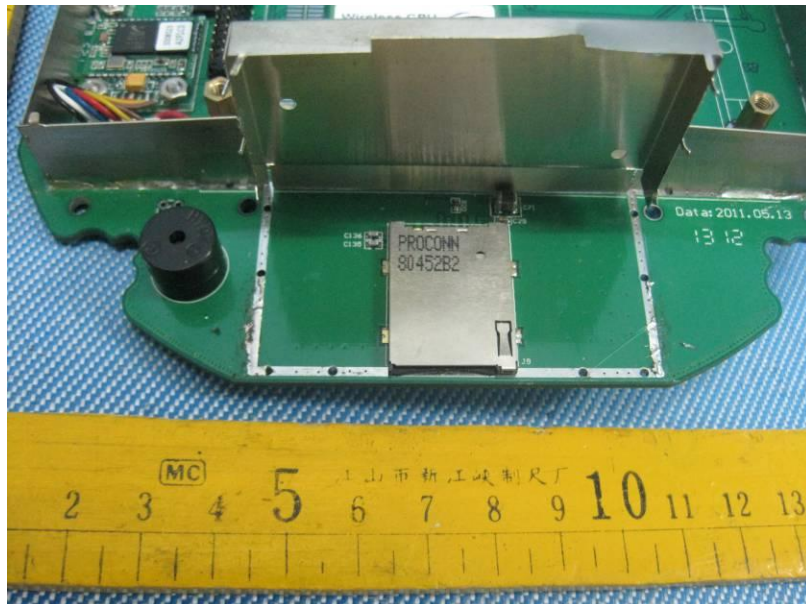
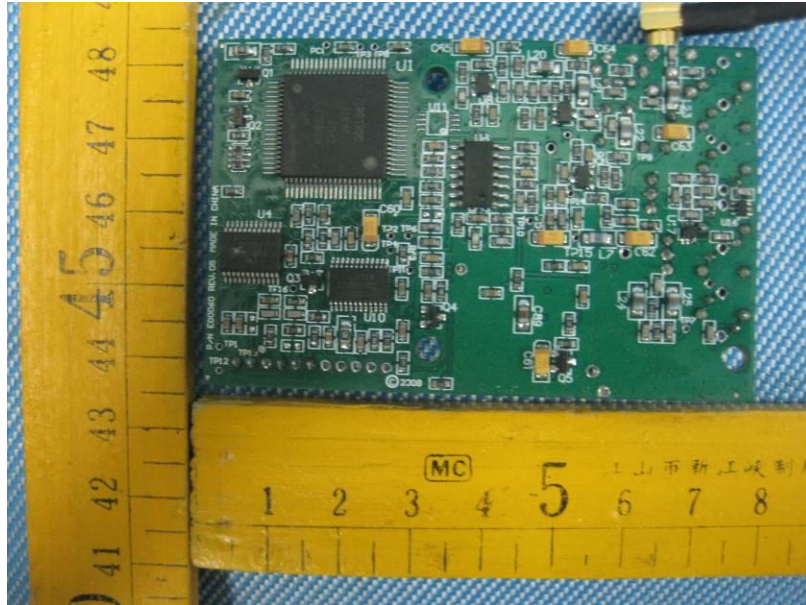


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Reference No.: WT12096172-S-S-F

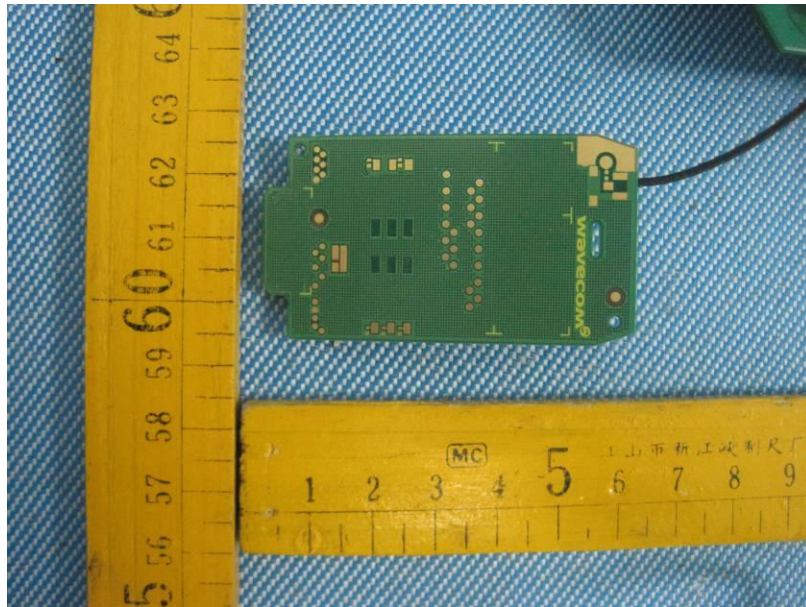




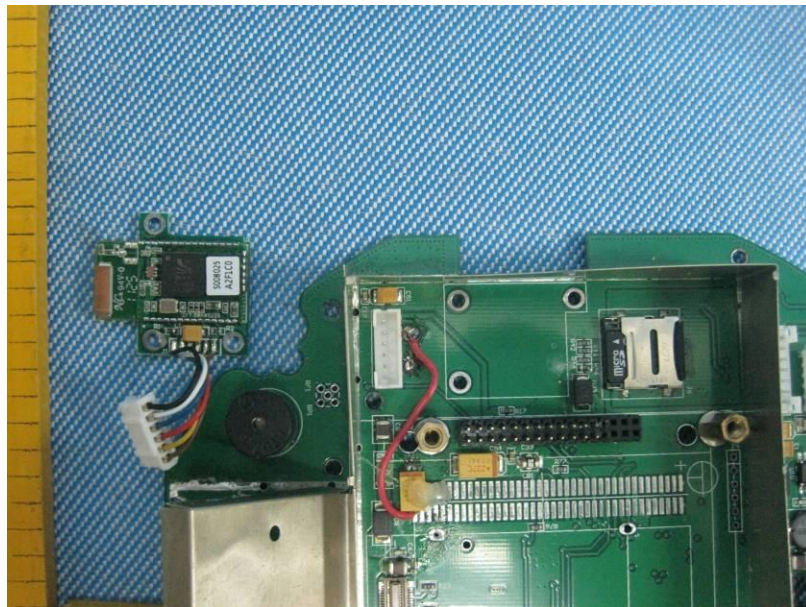
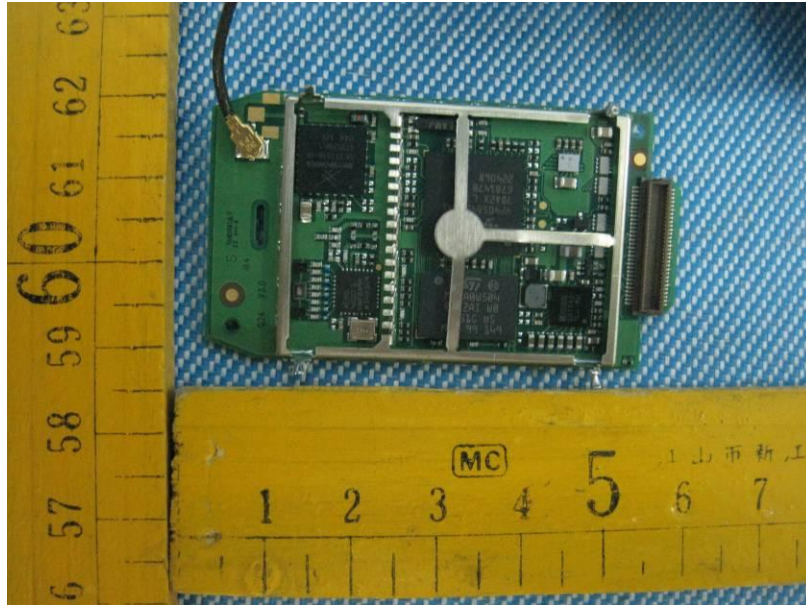
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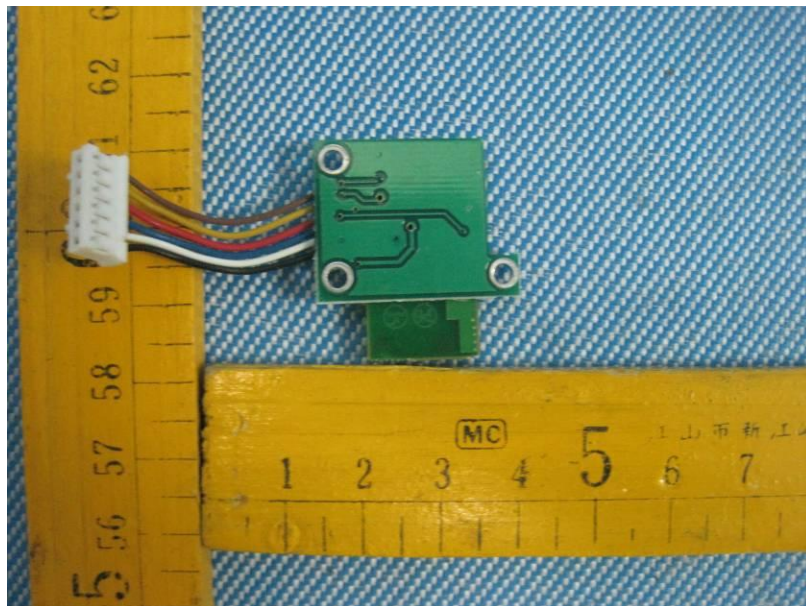
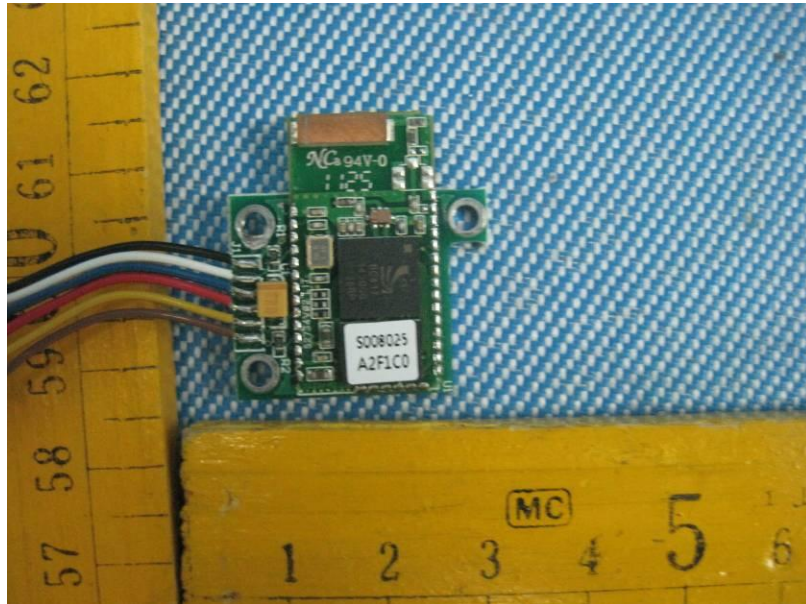




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## 8.5 EUT2-Appearance View



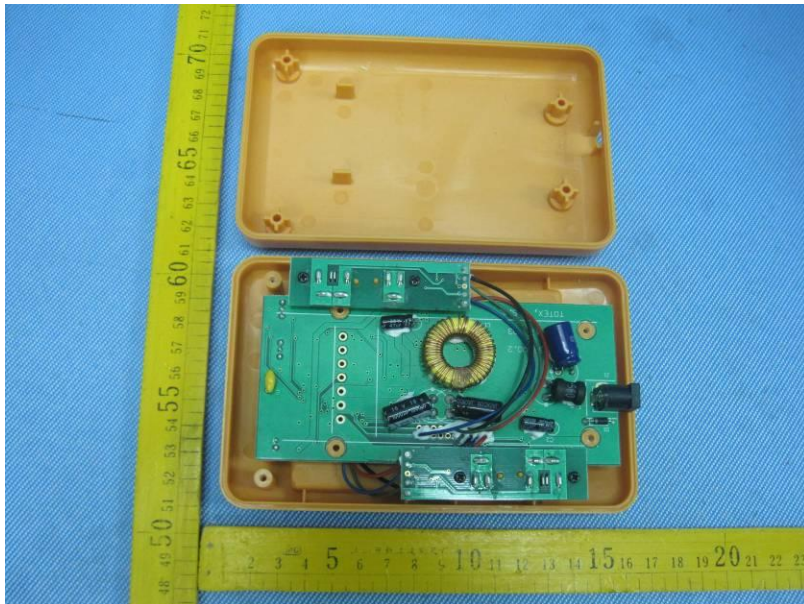
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## 8.6 EUT2-Open View



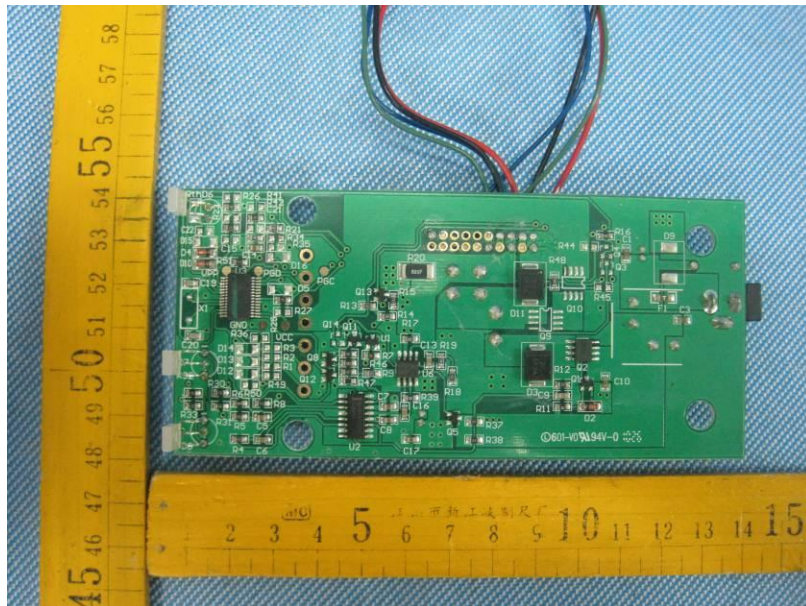
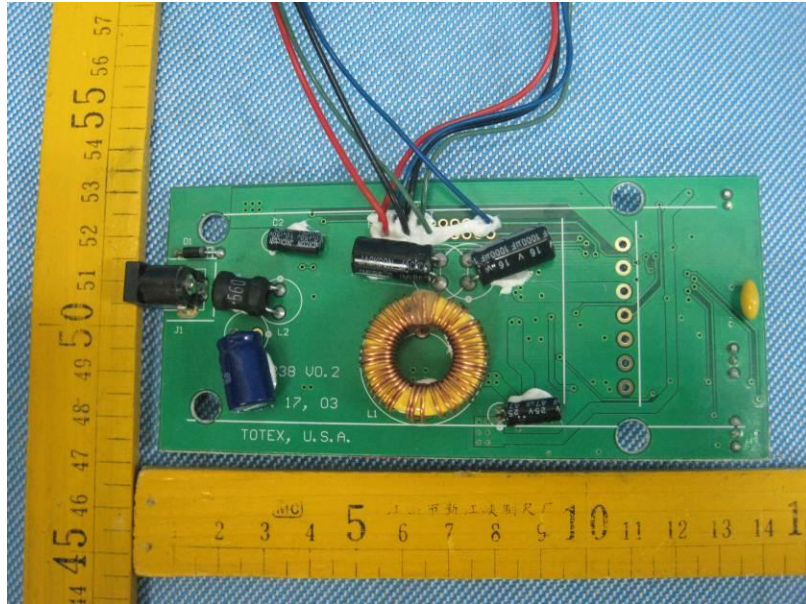
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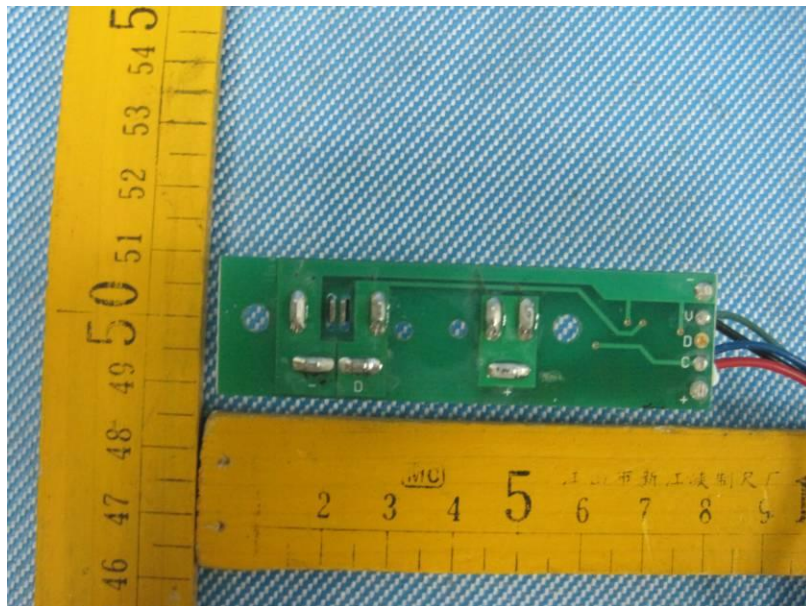
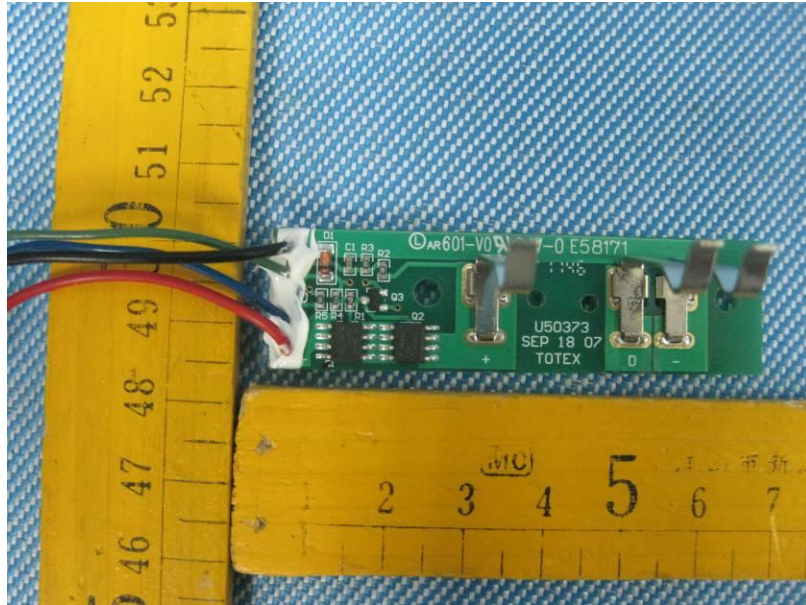
## 8.7 EUT2 PCB View



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Reference No.: WT12096172-S-S-F



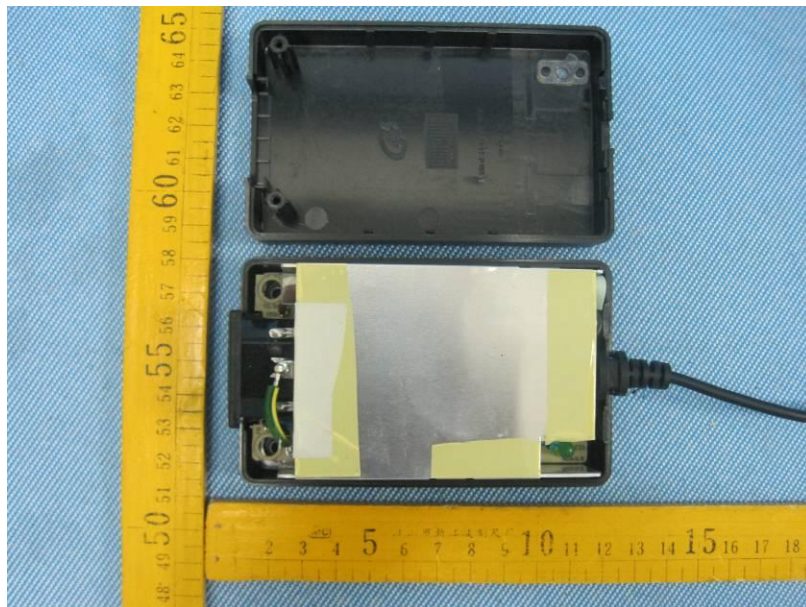
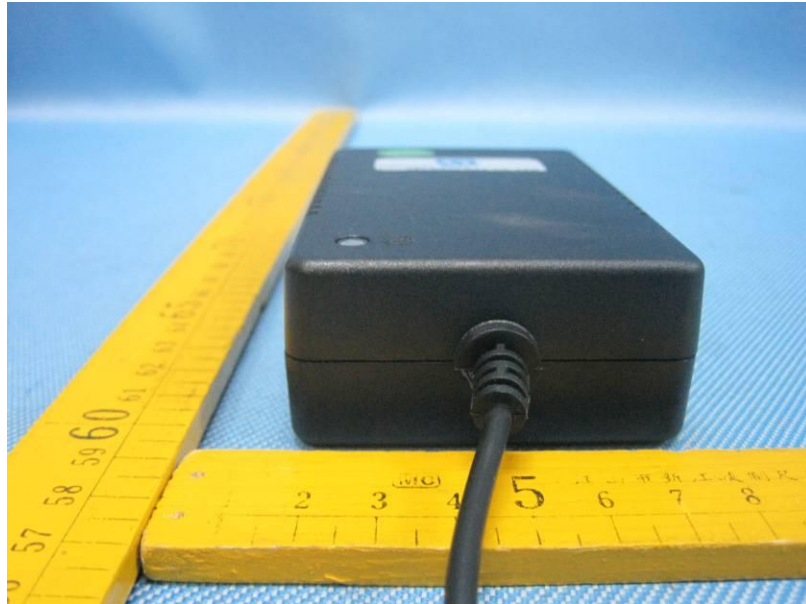
## 8.8 AC Adapter View



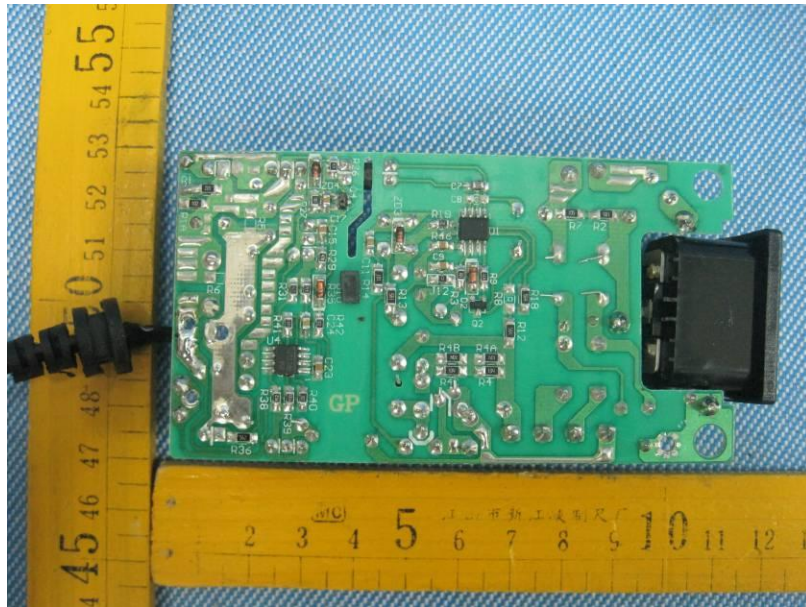
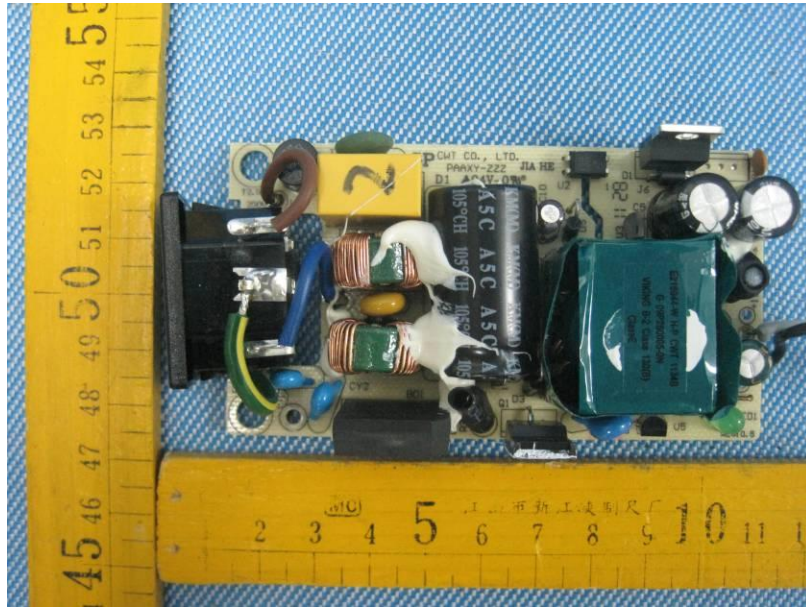
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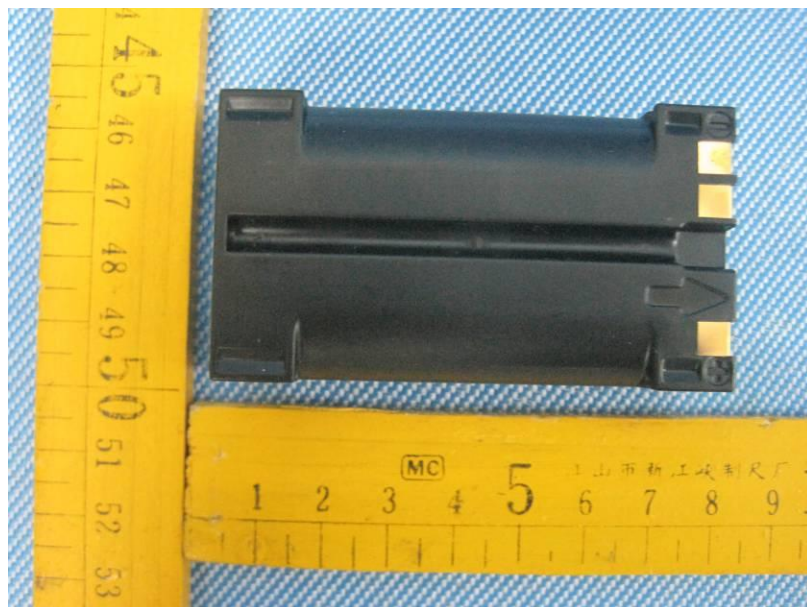


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Reference No.: WT12096172-S-S-F

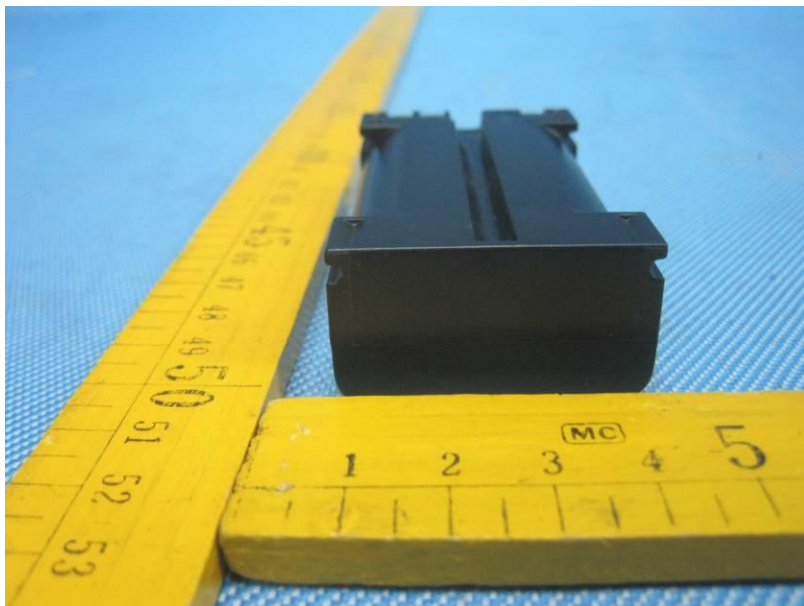
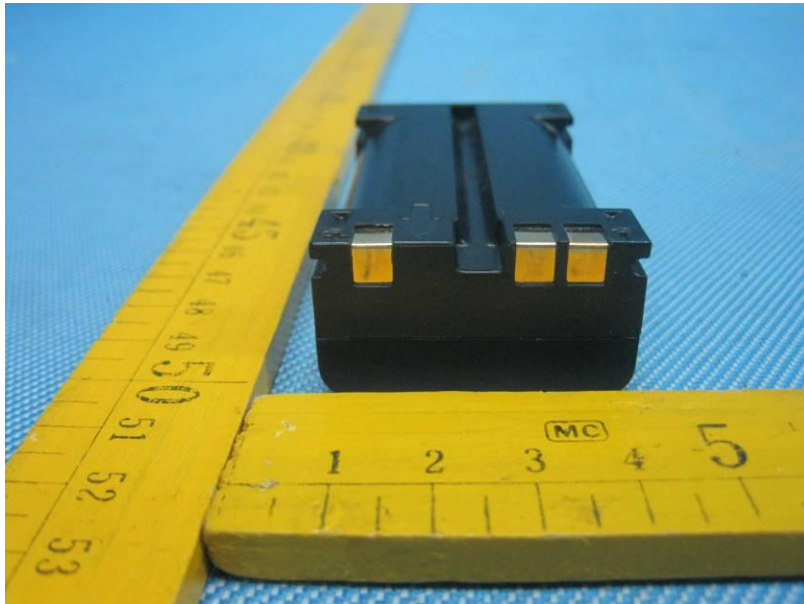
## 8.9 Battery View



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## 9 FCC Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference,and (2) this device must accept any interference received, including interference that may cause undesired operation

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT  
EUT Top View/proposed FCC Label Location

