

FCC TEST REPORT

FCC ID : A7ASMT888-3G
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. : SMT888-3G, G3100-R1

Standards : FCC Part 15 Section 15.109:2010

Date of Test : February 14 ~ February 17, 2012
Date of Issue : February 20, 2012

Test Engineer : Hunk yan / Engineer

Hunk yan

Reviewed By : Philo zhong / Manager

Philo zhong

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

Prepared By:

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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.: WT12020924-S-S-F

2 Test Summary

| Test | Test Requirement | Test Method | Result |
|--|----------------------|------------------|--------|
| Radiated Emission for GNSS (30MHz to 2GHz) | FCC Part 15.109:2010 | ANSI C63.4: 2003 | PASS |
| Radiated Emission for Charger (30MHz to 1GHz) | FCC Part 15.109:2010 | ANSI C63.4: 2003 | PASS |
| Conducted Emission (150KHz to 30MHz) | FCC Part 15.107:2010 | ANSI C63.4: 2003 | PASS |

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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, August 3, 2010.

- **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 | MY4511494 3 | W200800 1 | 9k-26.5GHz | Aug.2, 2011 | Aug.1, 2012 | ±1dB |
| Trilog Broadband Antenne 30-3000 MHz | SCHWARZBECK MESS-ELEKTROM/VULB9163 | 336 | W200800 2 | 30-3000 MHz | Aug.2, 2011 | Aug.1, 2012 | ±1dB |
| Broad-band Horn Antenna 1-18 GHz | SCHWARZBECK MESS-ELEKTROM/BBHA9120D | 667 | W200800 3 | 1-18GHz | Aug.2, 2011 | Aug.1, 2012 | f < 10 GHz : ±1dB 10GHz < f < 18GHz : ±1.5dB |
| Broadband Preamplifier 0.5-18 GHz | SCHWARZBECK MESS-ELEKTROM/BBV 9718 | 9718-148 | W200800 4 | 0.5-18GHz | Aug.2, 2011 | Aug.1, 2012 | ±1.2dB |
| 10m Coaxial Cable with N-male Connectors usable up to 18GHz, | SCHWARZBECK MESS-ELEKTROM/A K 9515 H | - | - | - | Aug.2, 2011 | Aug.1, 2012 | - |
| 10m 50 Ohm Coaxial Cable with N-plug, individual length, usable up to 3(5)GHz, Connector | SCHWARZBECK MESS-ELEKTROM/A K 9513 | - | - | - | Aug.2, 2011 | Aug.1, 2012 | - |
| Positioning Controller | C&C LAB/ CC-C-IF | - | - | - | N/A | N/A | - |
| Color Monitor | SUNSPO/ SP-14C | - | - | - | N/A | N/A | - |
| Test Receiver | ROHDE&SCHWARZ/ ESPI | 101155 | W200500 1 | 9k-3GHz | Aug.2, 2011 | Aug.1, 2012 | ±1dB |
| Two-Line V-Network | ROHDE&SCHWARZ/ ENV216 | 100115 | W200500 2 | 50Ω/50μH | Aug.2, 2011 | Aug.1, 2012 | ±10% |
| V-LISN | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8128 | 8128-259 | 9k-30MHz | Aug.2, 2011 | Aug.1, 2012 | - |
| PC | Lenovo | T2900D | - | - | Aug.2, 2011 | Aug.1, 2012 | ±1dB |
| Display | ViewSonic | S27996-1W | - | - | Aug.2, 2011 | Aug.1, 2012 | ±0.5dB |
| K/B | Dell | L100 | - | - | Aug.2, 2011 | Aug.1, 2012 | ±0.5dB |
| Mouse | Acer | M-UVACR1 | - | - | Aug.2, 2011 | Aug.1, 2012 | ±0.5dB |

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6 Conducted Emission Data

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

6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 51 % RH

Atmospheric Pressure: 1012 mbar

EUT Operation:

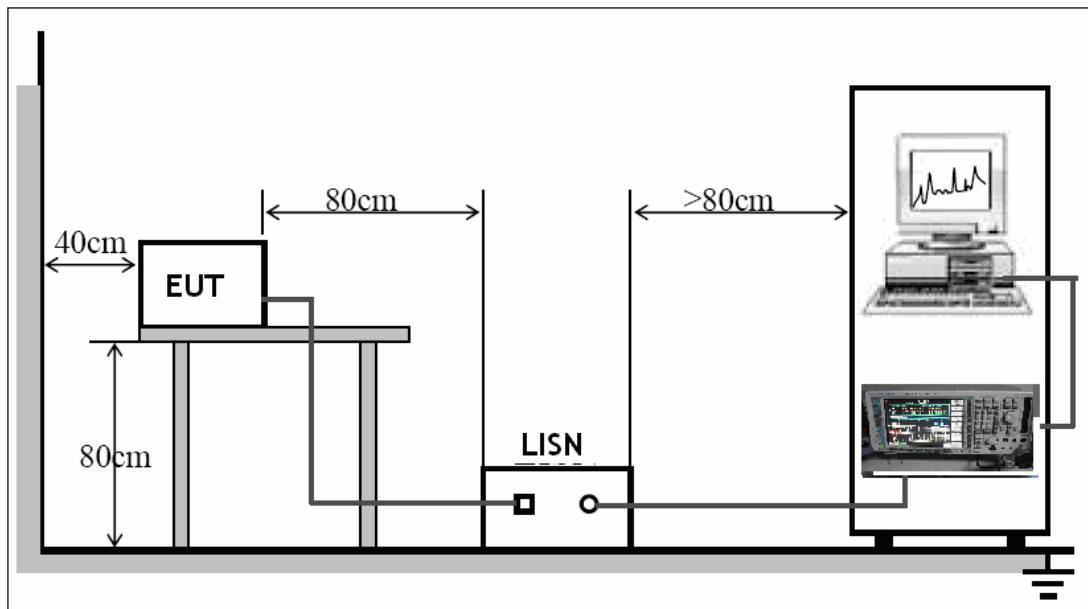
This test is not applicable for GNSS, and the compliance test for charger was performed in charging mode.

The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.

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.

6.2 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 B 15.107 limits.

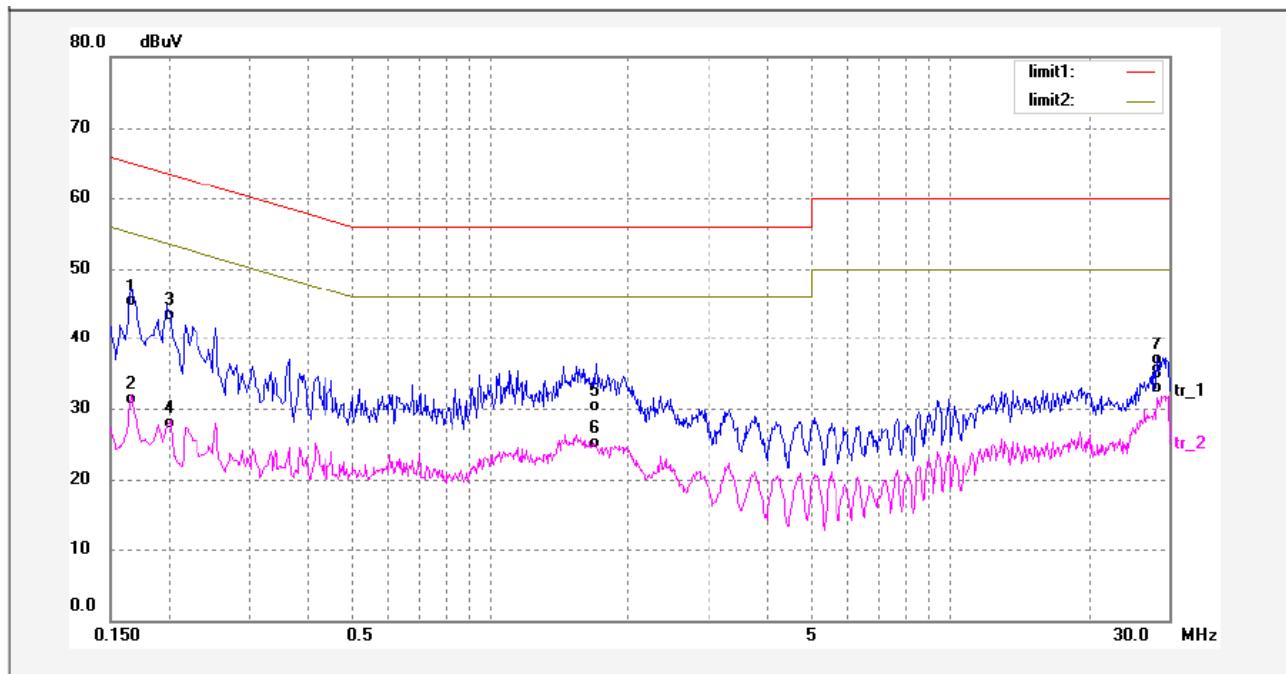


The EUT was placed on the test table in shielding room

6.3 Conducted Emission Test Result

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

Live line:



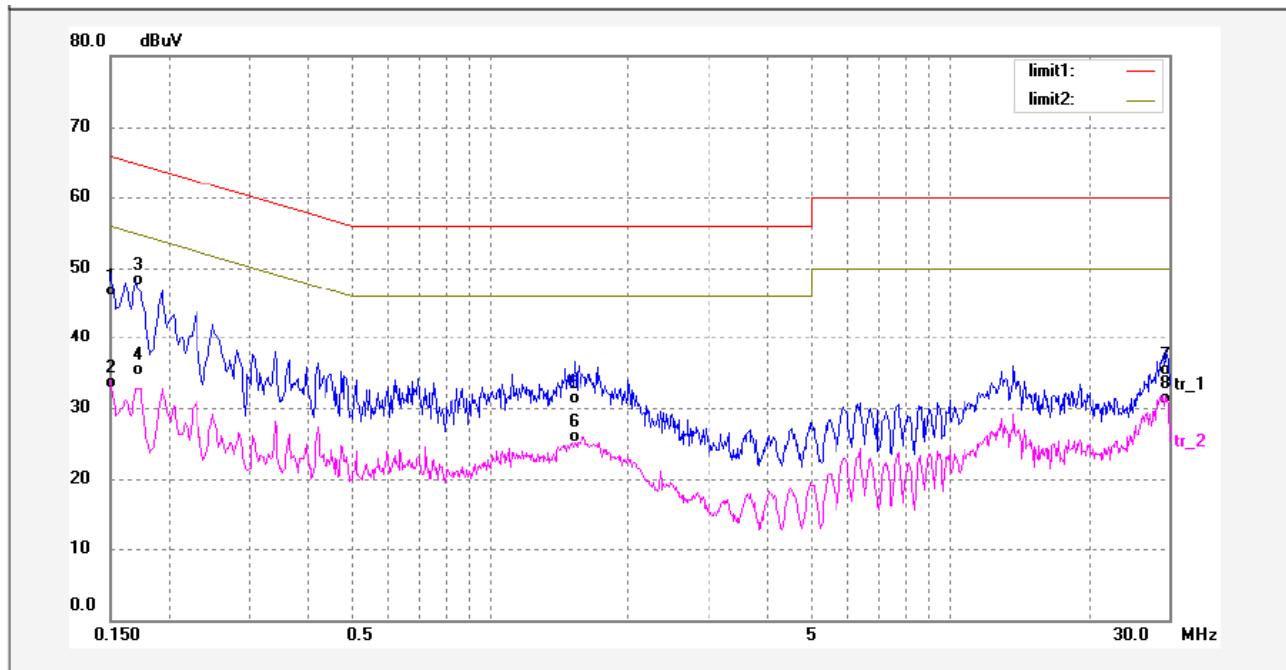
| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Margin (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|------------|-------------|----------|--------|
| 1 | 0.1660 | 33.91 | 10.65 | 44.56 | 65.15 | -20.59 | QP | |
| 2 | 0.1660 | 19.87 | 10.65 | 30.52 | 55.15 | -24.63 | AVG | |
| 3 | 0.1980 | 31.93 | 10.67 | 42.60 | 63.69 | -21.09 | QP | |
| 4 | 0.1980 | 16.49 | 10.67 | 27.16 | 53.69 | -26.53 | AVG | |
| 5 | 1.7100 | 17.30 | 12.22 | 29.52 | 56.00 | -26.48 | QP | |
| 6 | 1.7100 | 11.99 | 12.22 | 24.21 | 46.00 | -21.79 | AVG | |
| 7 | 28.2100 | 23.30 | 12.77 | 36.07 | 60.00 | -23.93 | QP | |
| 8 | 28.2100 | 19.28 | 12.77 | 32.05 | 50.00 | -17.95 | AVG | |

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Neutral line:



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Margin (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|------------|-------------|----------|--------|
| 1 | 0.1500 | 35.22 | 10.67 | 45.89 | 65.99 | -20.10 | QP | |
| 2 | 0.1500 | 22.03 | 10.67 | 32.70 | 55.99 | -23.29 | AVG | |
| 3 | 0.1700 | 36.79 | 10.68 | 47.47 | 64.96 | -17.49 | QP | |
| 4 | 0.1700 | 23.90 | 10.68 | 34.58 | 54.96 | -20.38 | AVG | |
| 5 | 1.5300 | 18.22 | 12.19 | 30.41 | 56.00 | -25.59 | QP | |
| 6 | 1.5300 | 12.89 | 12.19 | 25.08 | 46.00 | -20.92 | AVG | |
| 7 | 29.6300 | 21.66 | 12.79 | 34.45 | 60.00 | -25.55 | QP | |
| 8 | 29.6300 | 17.69 | 12.79 | 30.48 | 50.00 | -19.52 | AVG | |

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6.4 Photograph – Conducted Emission Test Setup



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7 Radiation Emission Data

| | |
|-----------------------|---|
| Test Requirement: | FCC Part15.109 |
| Test Method: | ANSI C63.4:2003 |
| Test Result: | PASS |
| Frequency Range: | 30MHz to 2GHz |
| Measurement Distance: | 3m |
| Class: | Class B |
| Limit: | 40.0 dB μ V/m between 30MHz & 88MHz 43.5 dB μ V/m between 88MHz & 216MHz 46.0 dB μ V/m between 216MHz & 960MHz 54.0 dB μ V/m above 960MHz 74.0 dB μ V/m between 1GHz ~ 2GHz for peak 54.0 dB μ 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 mbar

EUT Operation:

The pre-test for GNSS was performed in working mode and communication with PC mode, for each mode, the test was performed in GNSS powered by Li-ion battery and by 12V lead-acid cell mode. The worst mode is communication with PC and powered by 12V lead-acid cell mode. So the data show is that mode's only.

The Charger was tested in charging mode.

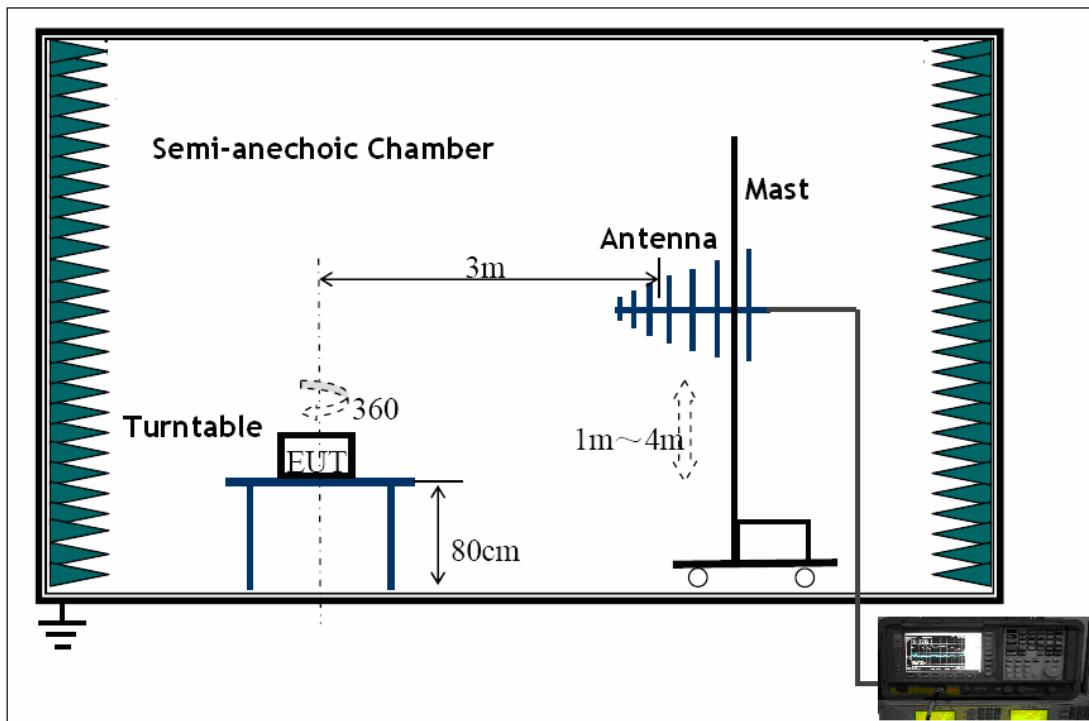
7.2 Measurement Uncertainty

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 ± 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 Part15.109limits.



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

7.4 Spectrum Analyzer Setup

According to FCC Part15 B Rules, the GNSS was tested from 30MHz to 2000MHz 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 |

Above 1GHz

| | |
|------------------------------------|----------|
| Start Frequency | 1000 MHz |
| Stop Frequency | 2000MHz |
| 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 B standards.

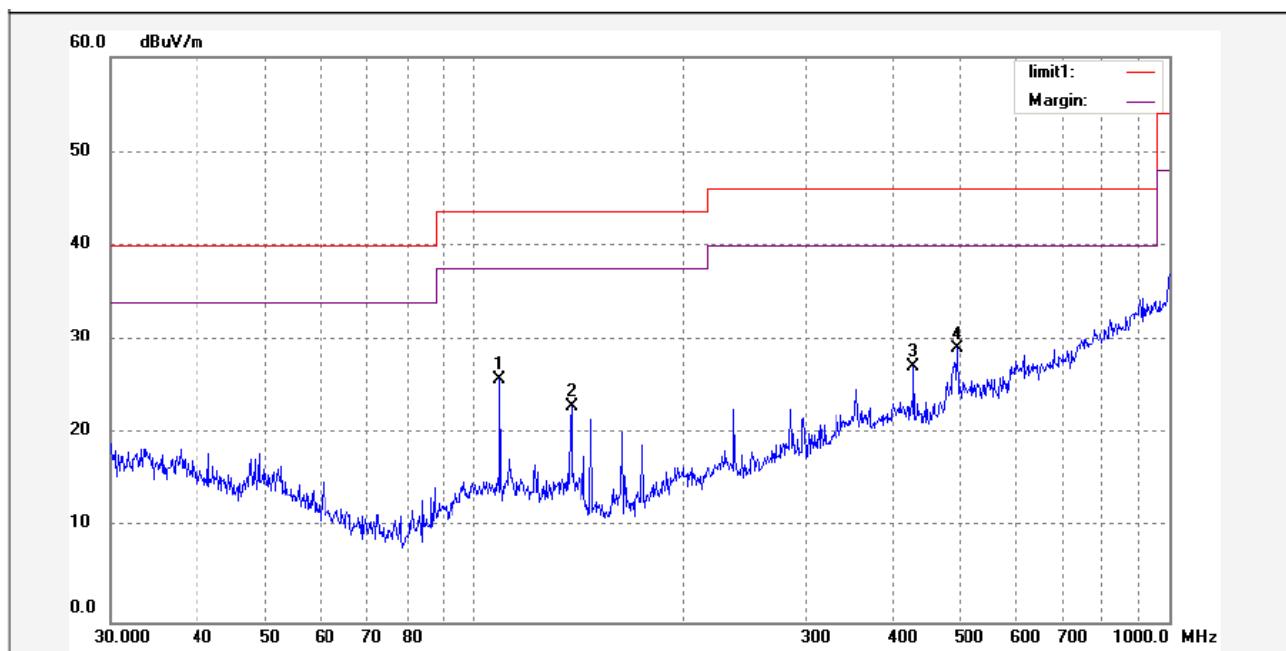
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Measurement Data of GNSS

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

Frequency Range: 30MHz ~ 1GHz

Antenna polarization: Vertical



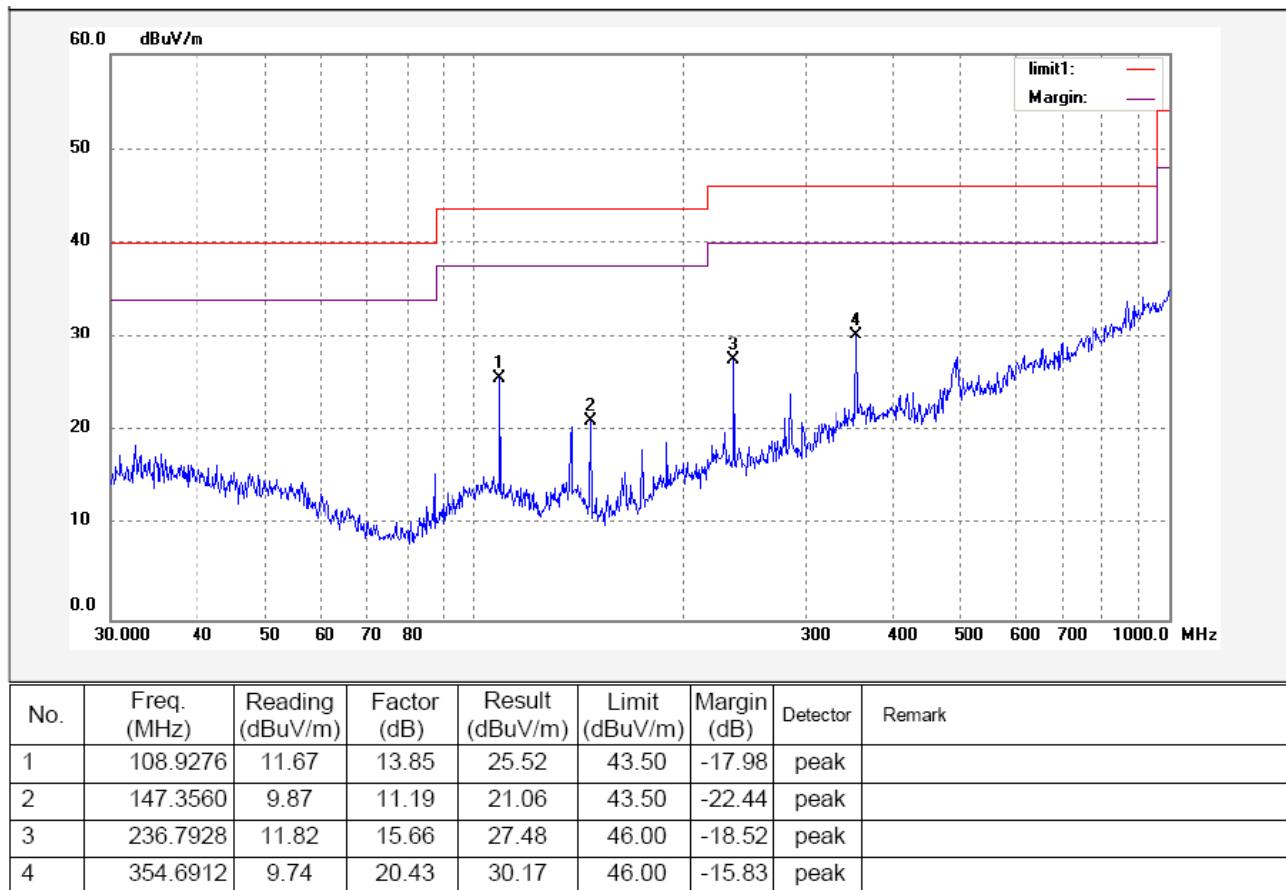
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1 | 108.9276 | 11.81 | 13.85 | 25.66 | 43.50 | -17.84 | peak | |
| 2 | 137.8400 | 11.06 | 11.86 | 22.92 | 43.50 | -20.58 | peak | |
| 3 | 428.7960 | 6.58 | 20.50 | 27.08 | 46.00 | -18.92 | peak | |
| 4 | 495.2379 | 4.62 | 24.38 | 29.00 | 46.00 | -17.00 | peak | |

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Antenna polarization: Horizontal



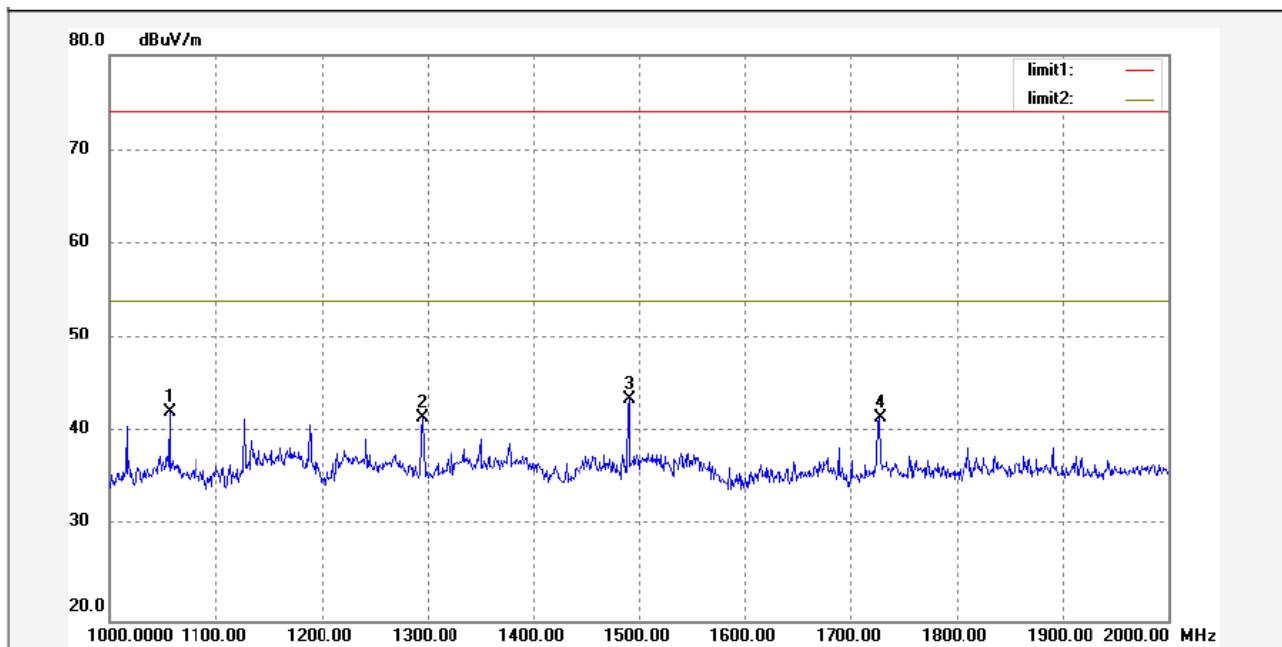
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Reference No.: WT12020924-S-S-F

Frequency Range: 1GHz ~ 2GHz

Antenna polarization: Vertical



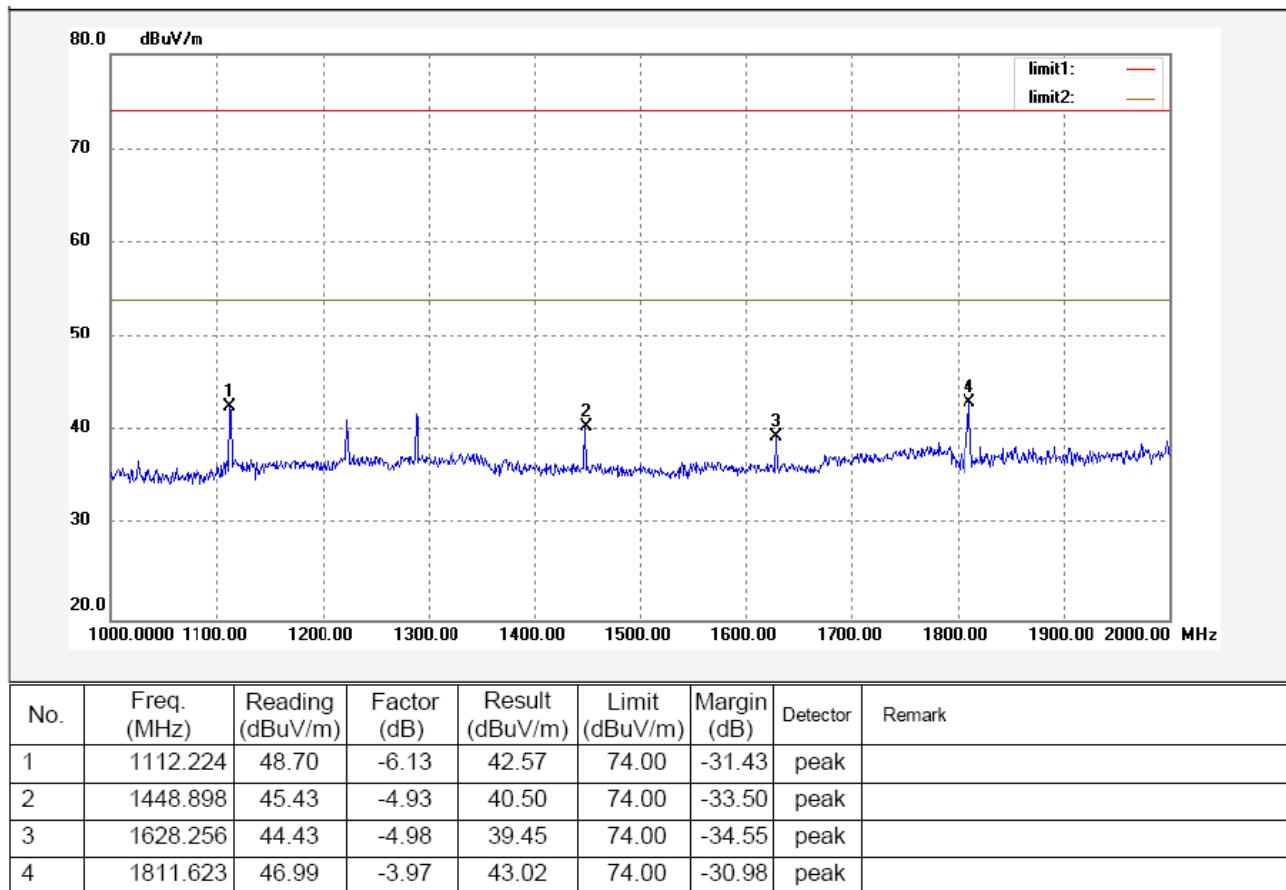
| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1 | 1056.112 | 48.82 | -6.73 | 42.09 | 74.00 | -31.91 | peak | |
| 2 | 1295.591 | 46.72 | -5.14 | 41.58 | 74.00 | -32.42 | peak | |
| 3 | 1490.982 | 48.53 | -5.12 | 43.41 | 74.00 | -30.59 | peak | |
| 4 | 1727.455 | 46.76 | -5.28 | 41.48 | 74.00 | -32.52 | peak | |

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Antenna polarization: Horizontal



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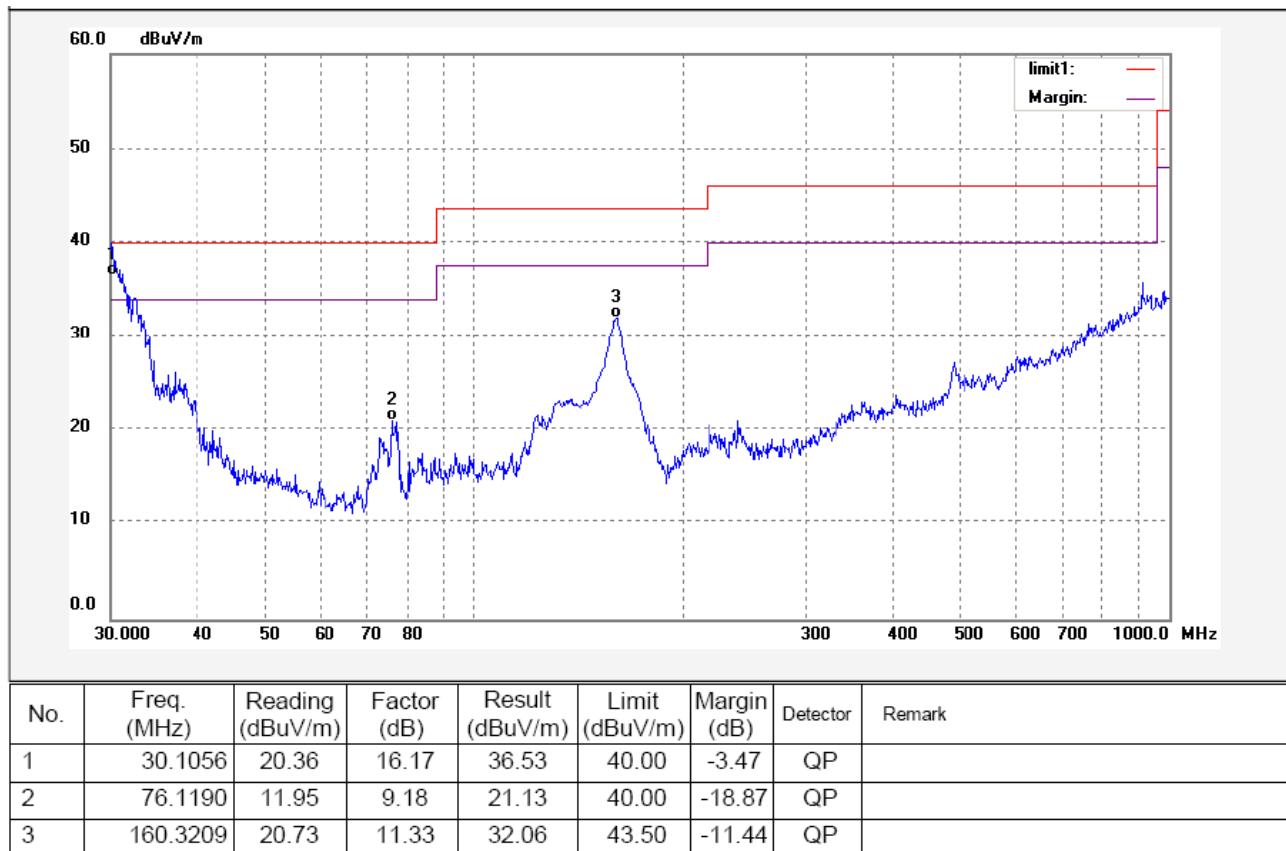
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Measurement Data of Charger

Test Mode: Charging mode

Antenna polarization: Vertical

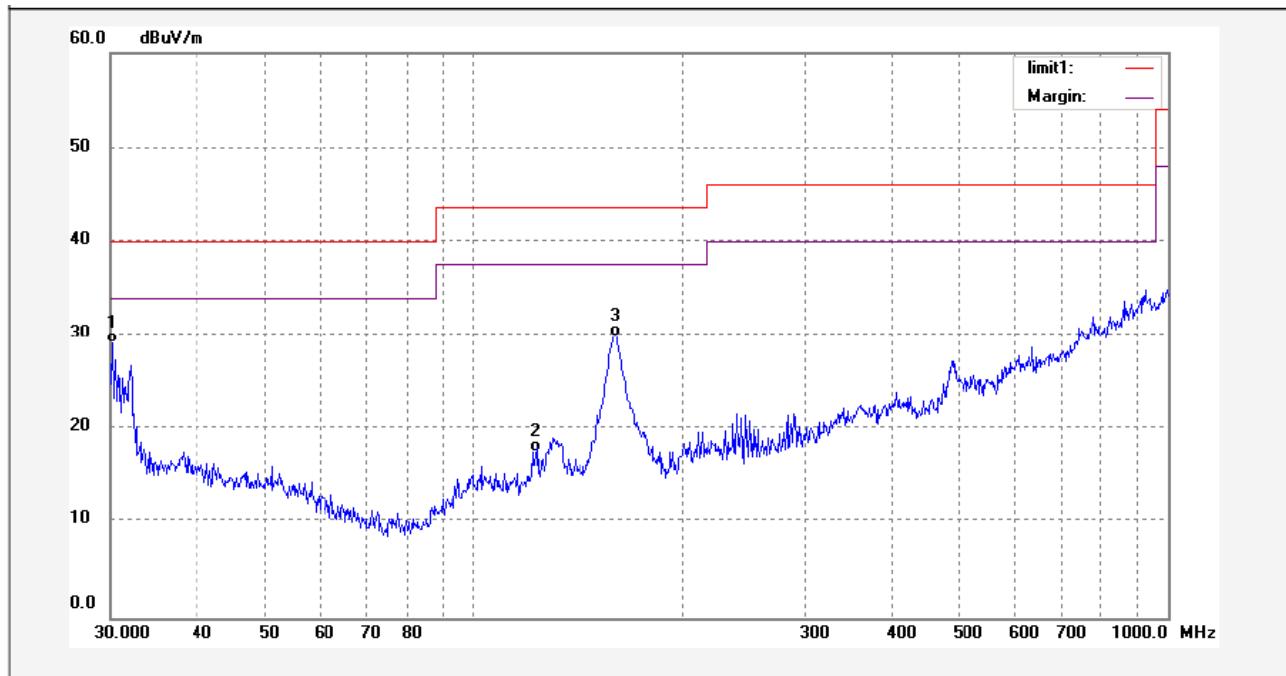


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Reference No.: WT12020924-S-S-F

Antenna polarization: Horizontal



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|--------|
| 1 | 30.2116 | 13.05 | 16.19 | 29.24 | 40.00 | -10.76 | QP | |
| 2 | 122.7494 | 5.91 | 11.72 | 17.63 | 43.50 | -25.87 | QP | |
| 3 | 160.3209 | 18.64 | 11.33 | 29.97 | 43.50 | -13.53 | QP | |

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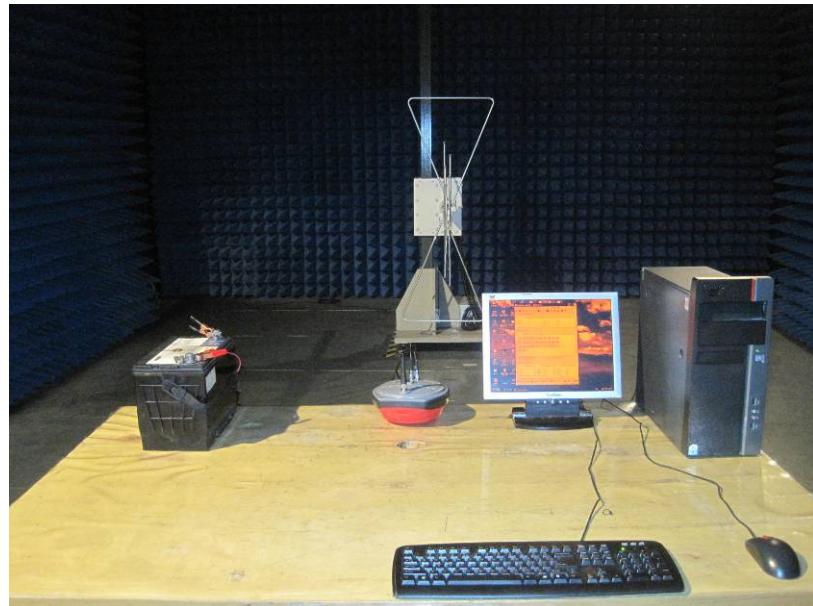
Reference No.: WT12020924-S-S-F

7.8 Photograph – Radiation Emission Test Setup

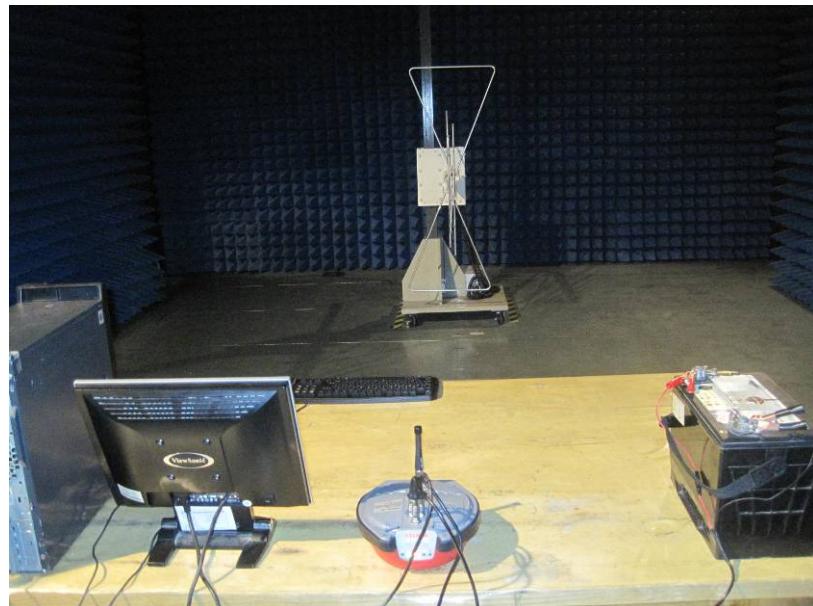
Test Setup for GNSS

Below 1GHz

Front View



Back View



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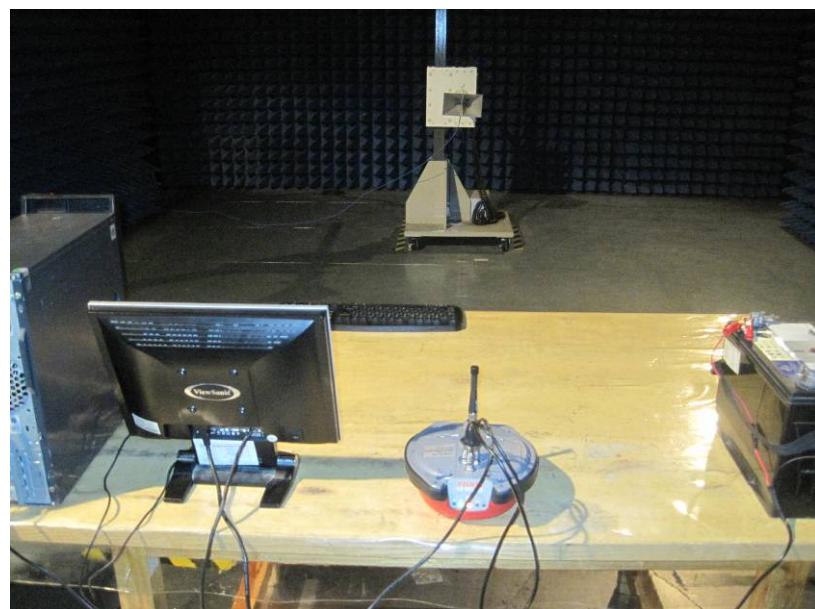
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Reference No.: WT12020924-S-S-F

Above 1GHz
Front View



Back View

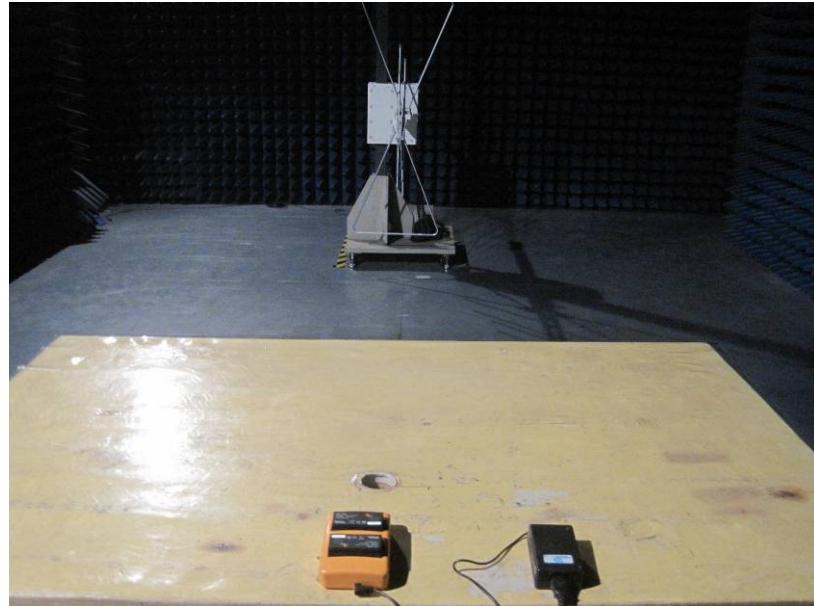


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Test Setup for Charger



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8 Photographs - Constructional Details

8.1 Product View

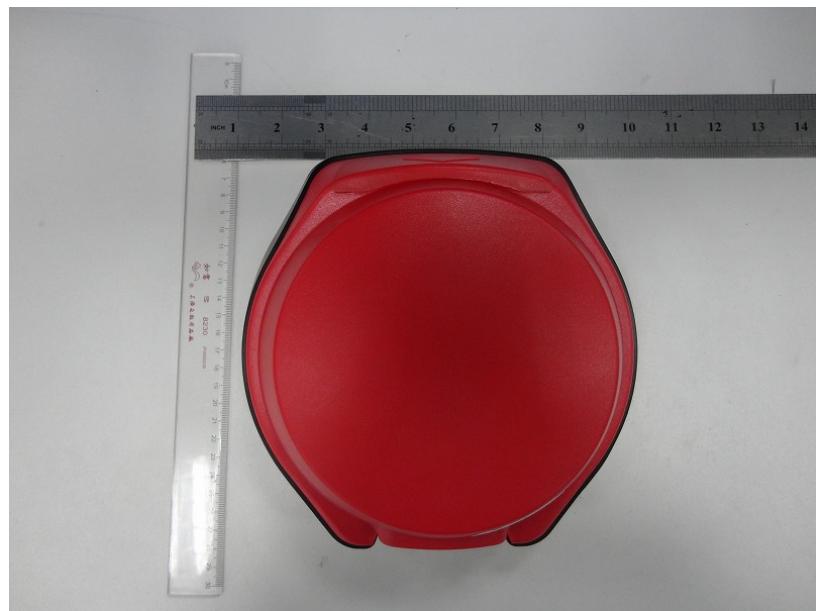


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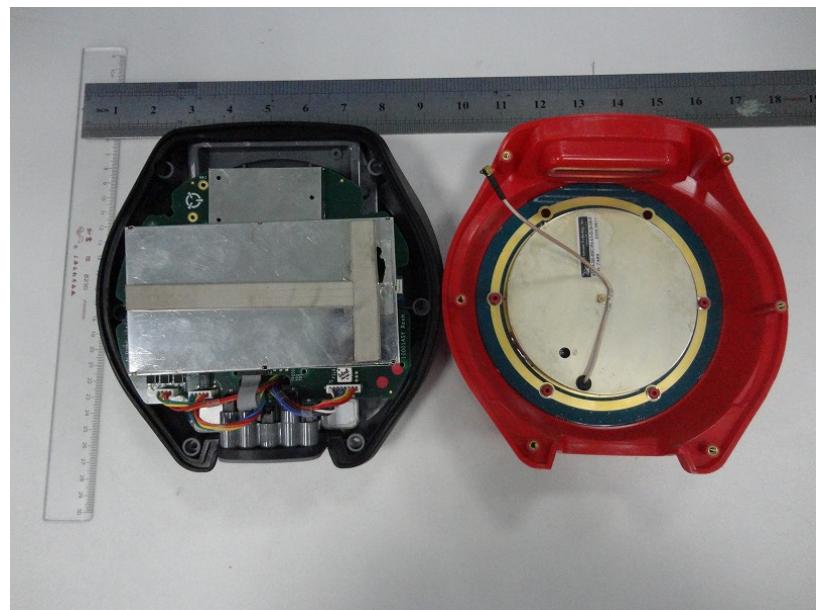
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8.2 G3100-R1 - Appearance View



8.3 G3100-R1 – Open View



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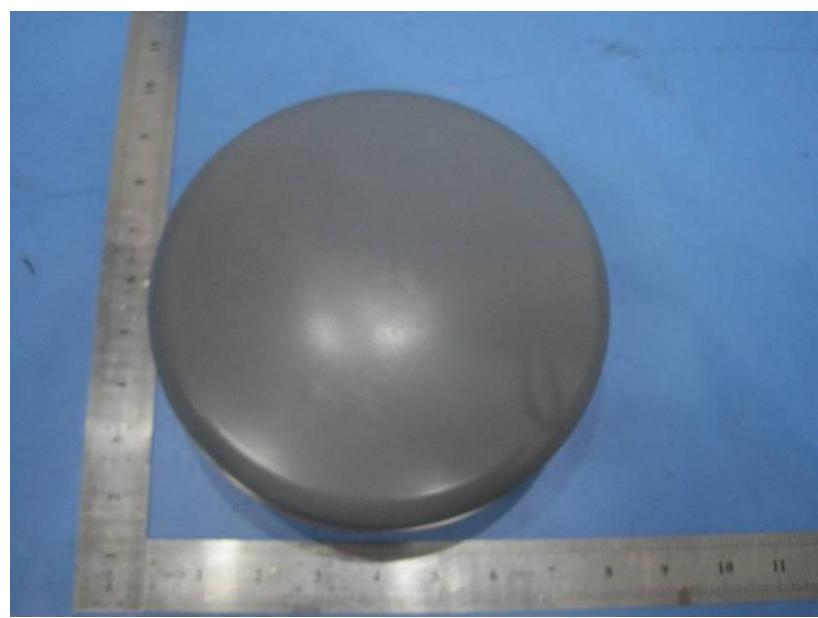


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8.4 SMT888-3G - Appearance View

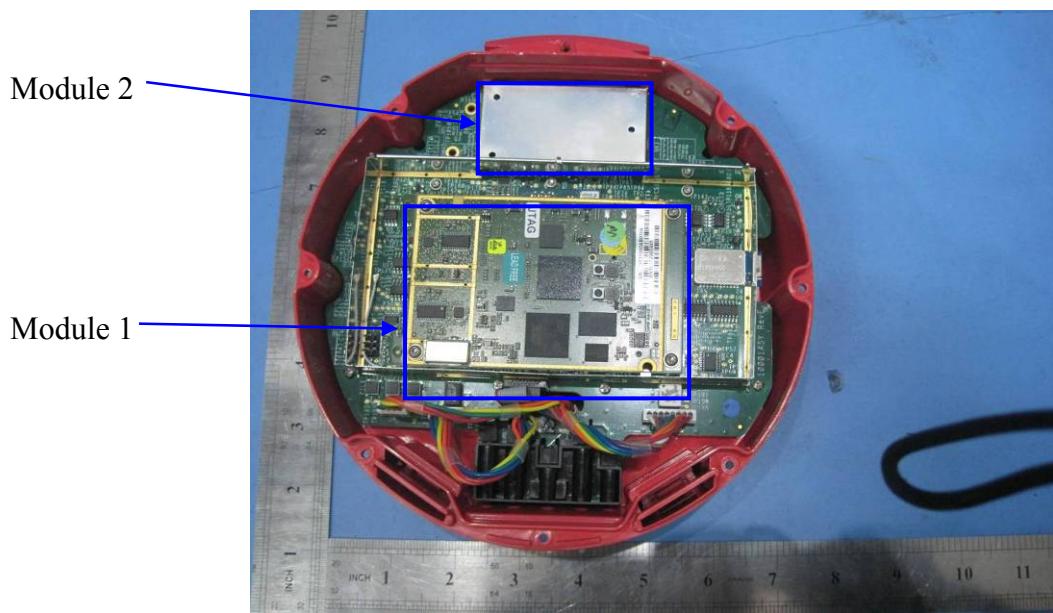
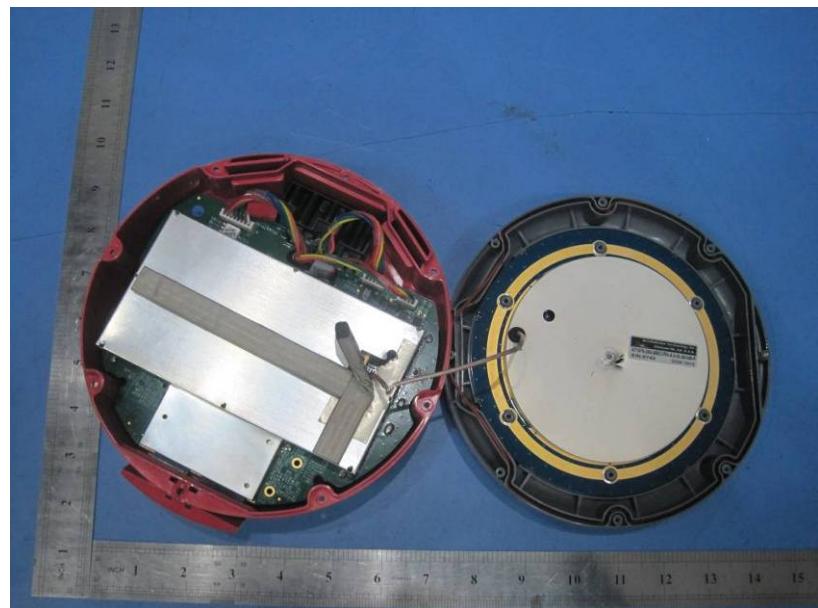


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8.5 SMT888-3G – Open View



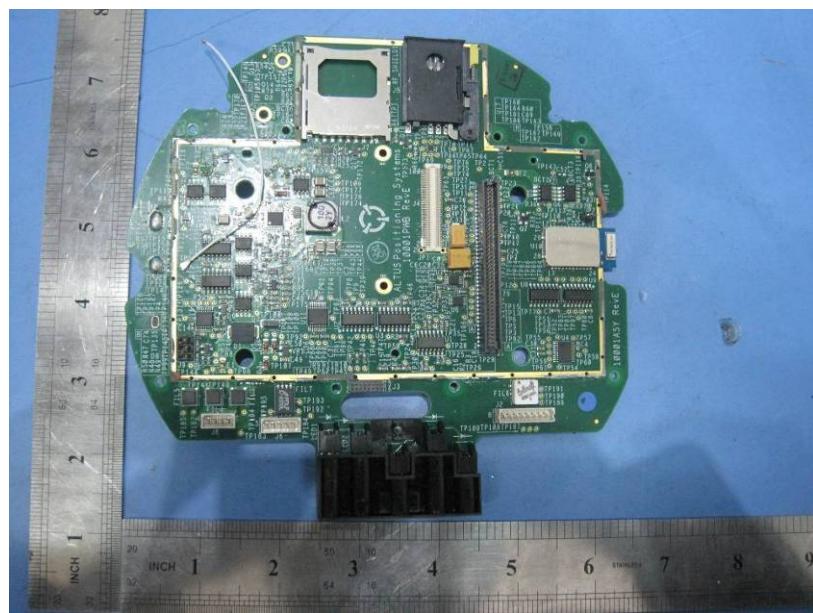
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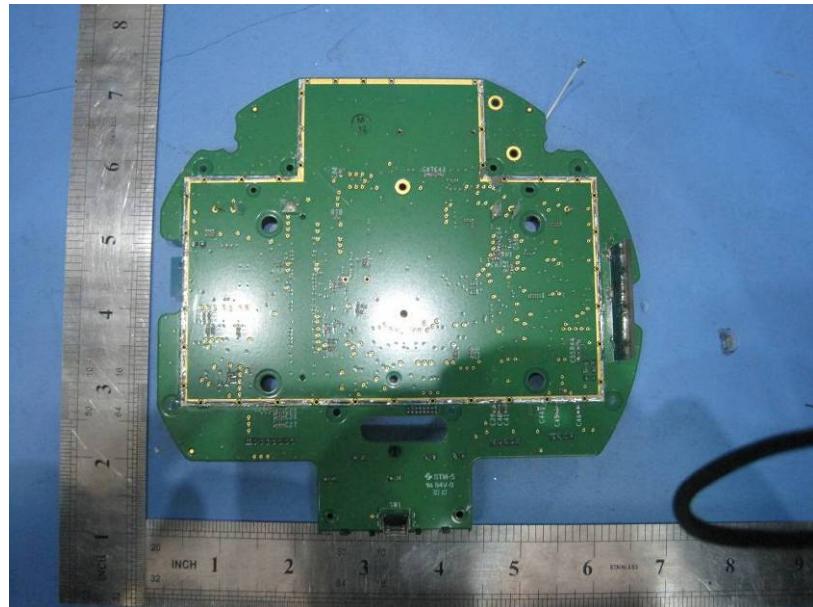
8.6 PCB 1 - View



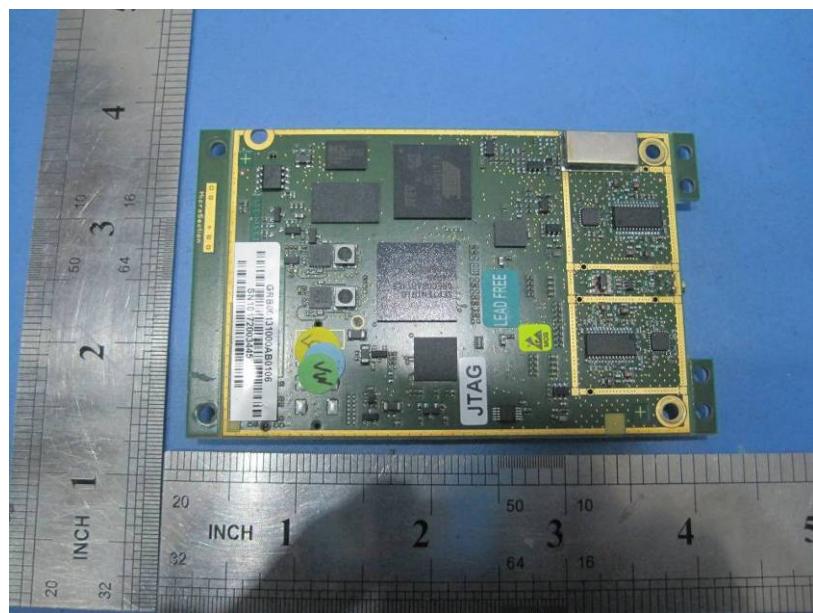
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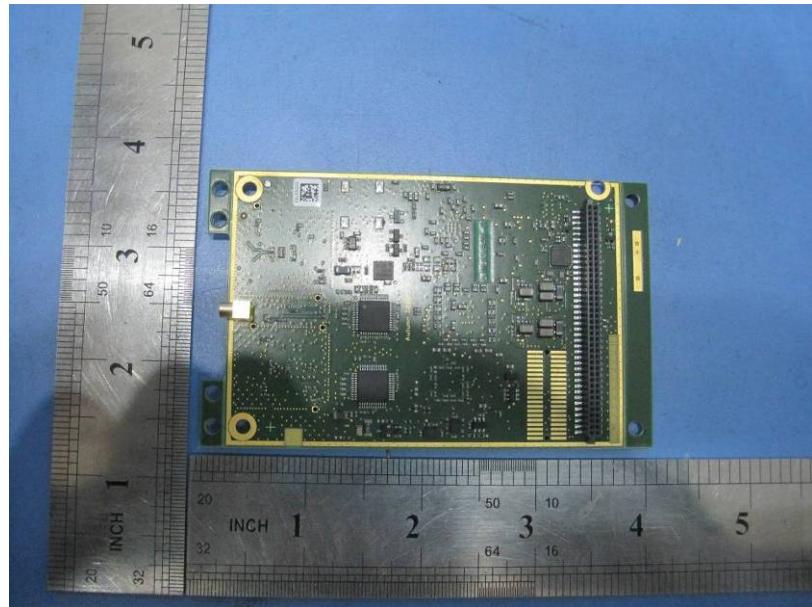
8.7 Module 1 – PCB View



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8.8 Module 2 – Appearance View

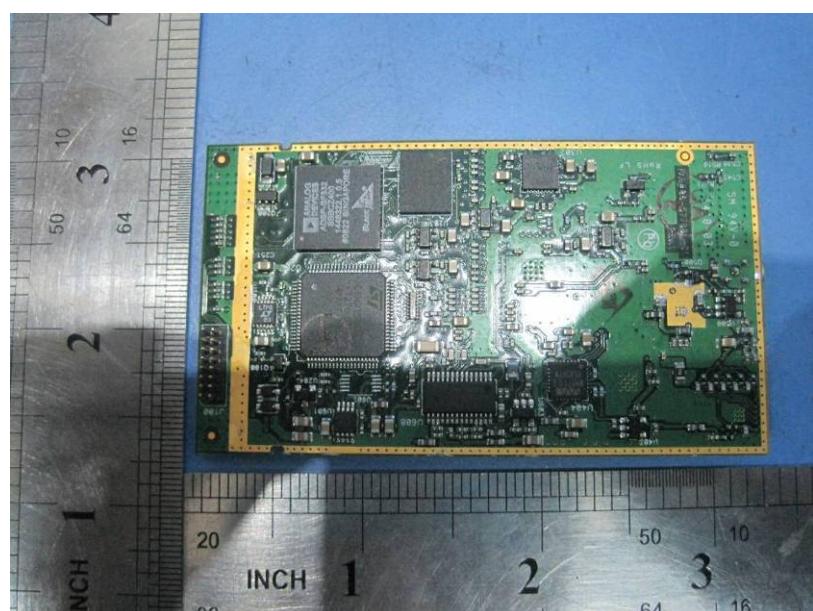
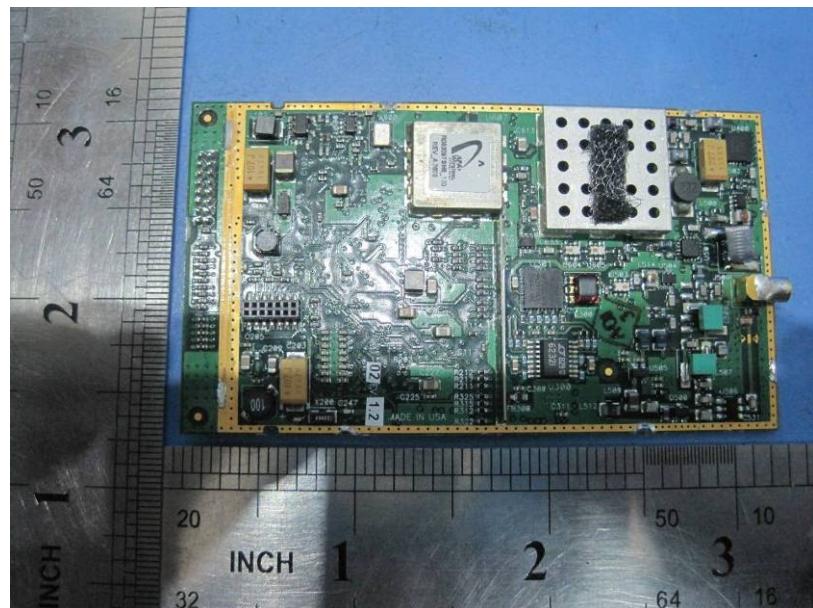


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8.9 Module 2 – PCB View



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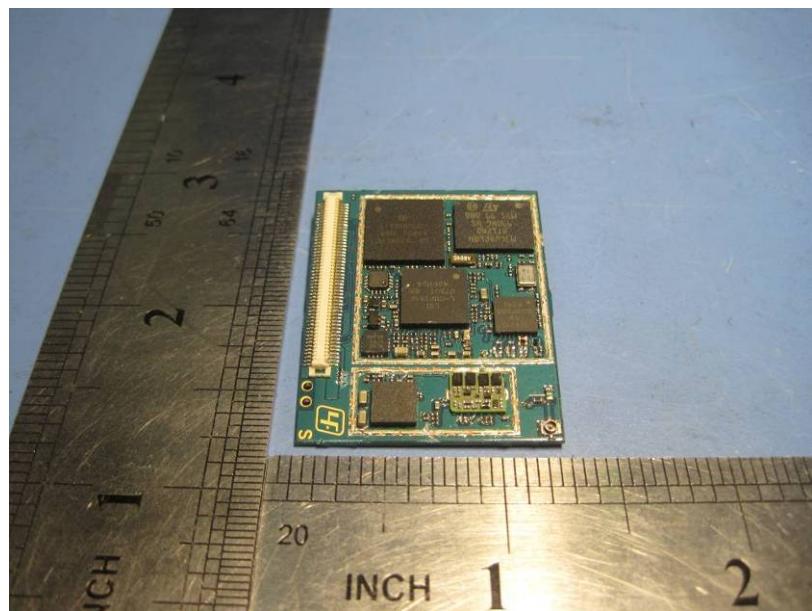
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8.10 Module 3 – Appearance View



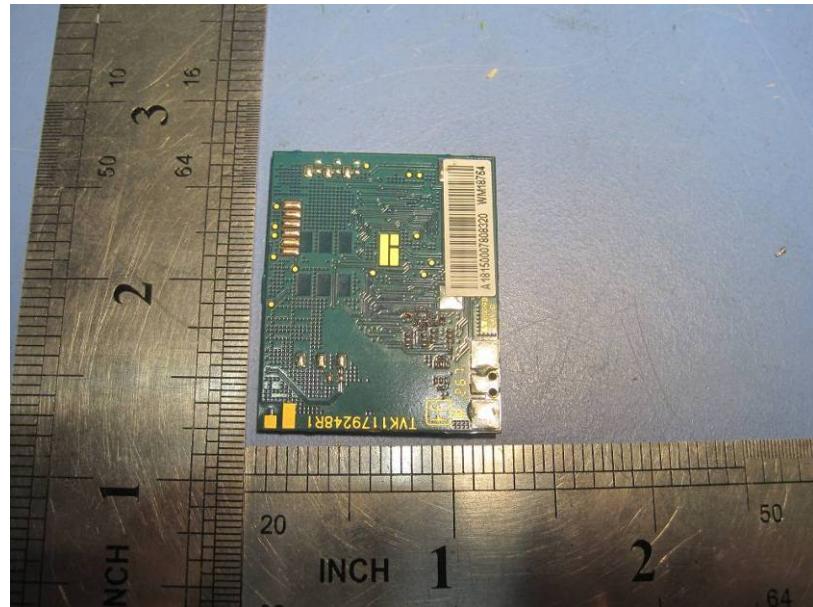
8.11 Module 3 – PCB View



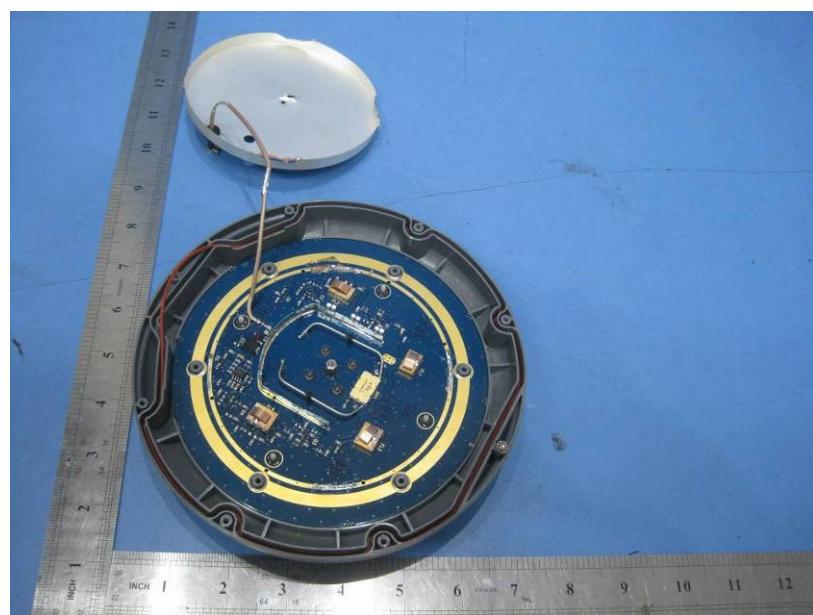
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8.12 Bottom – PCB View



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8.13 Charger – Appearance View



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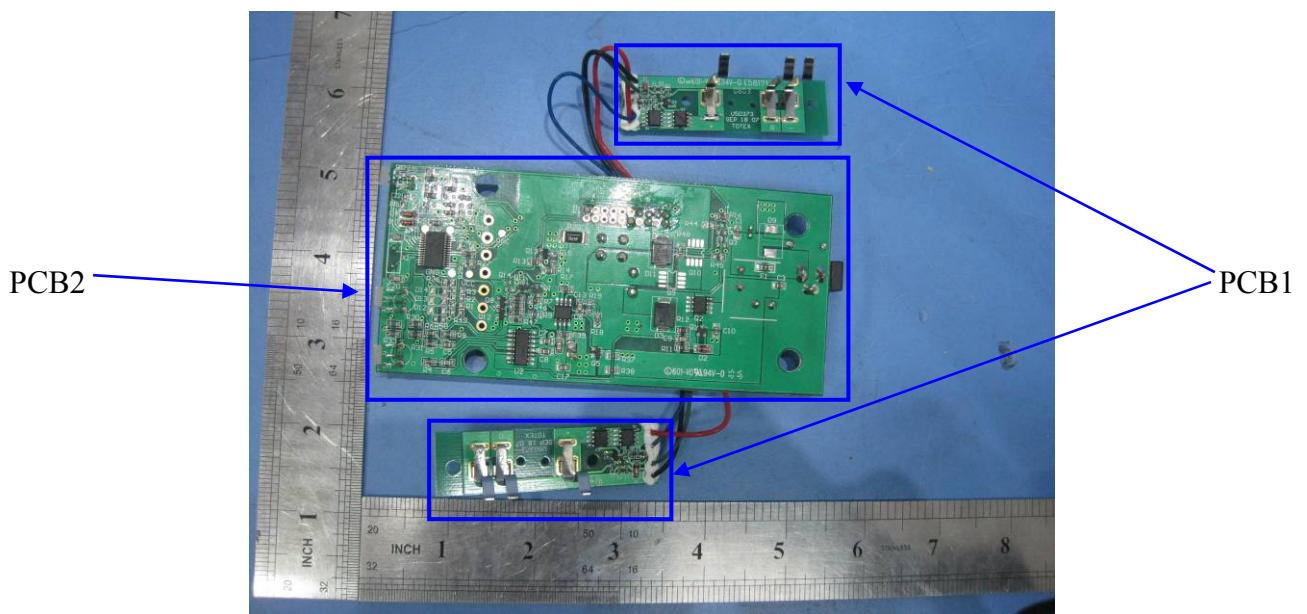
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8.14 Charger – Open View



8.15 Charger – PCB View

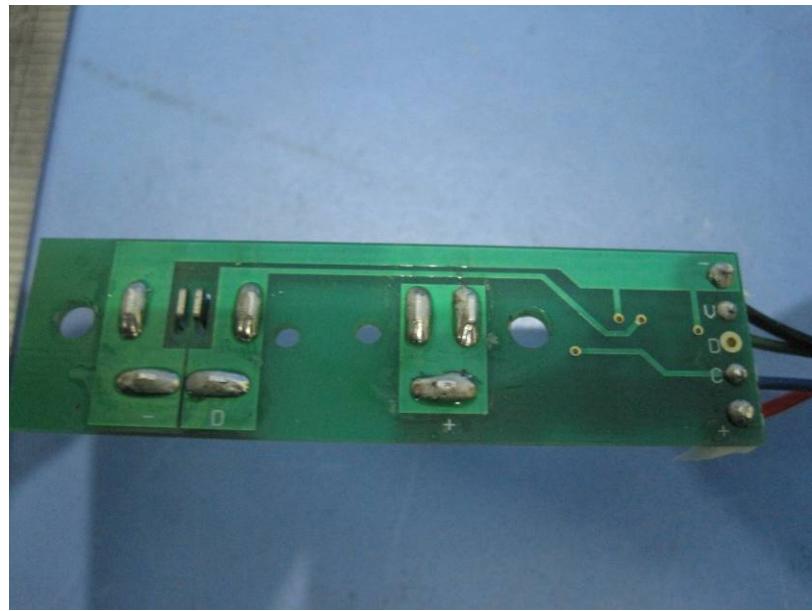
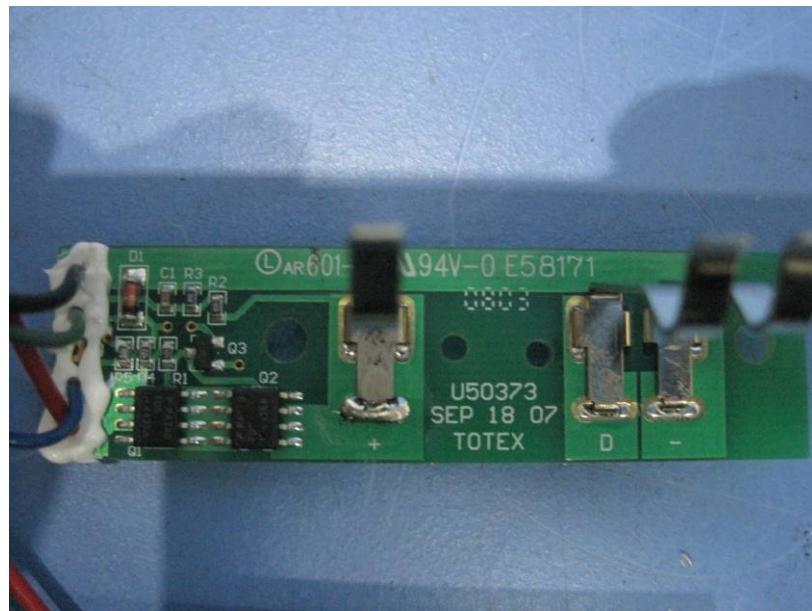


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8.16 Charger – PCB1 View

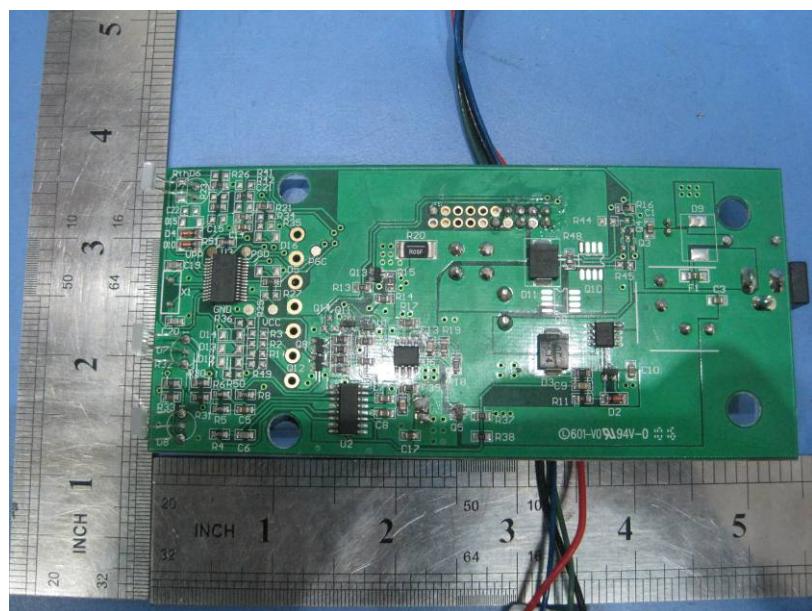
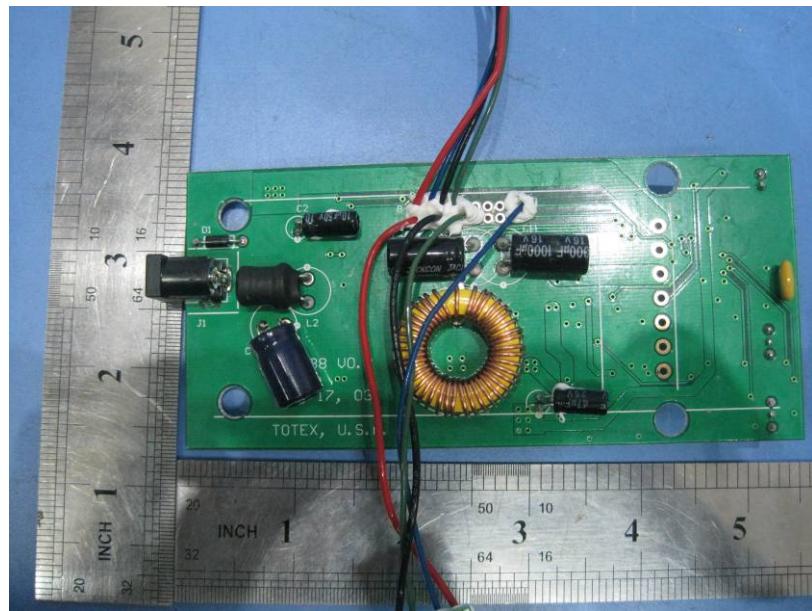


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8.17 Charger – PCB2 View



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8.18 Adapter – Appearance View



8.19 Adapter – Open View

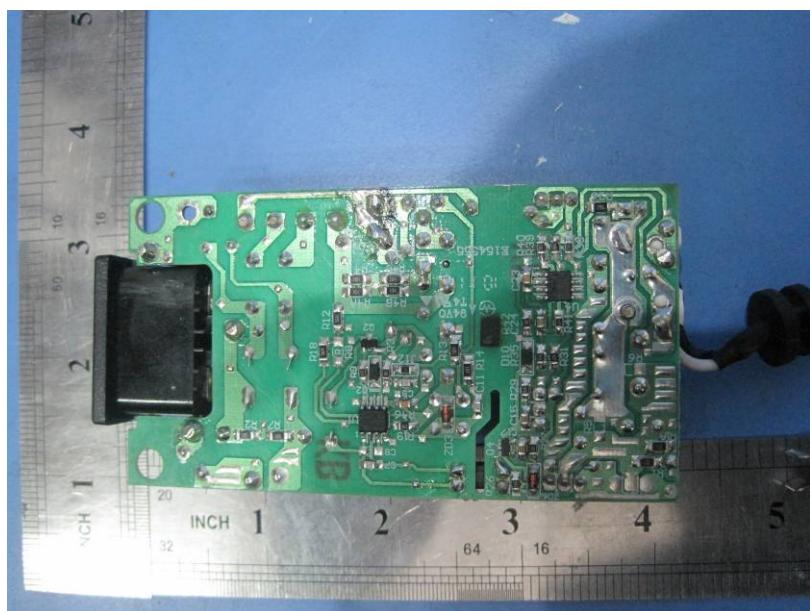
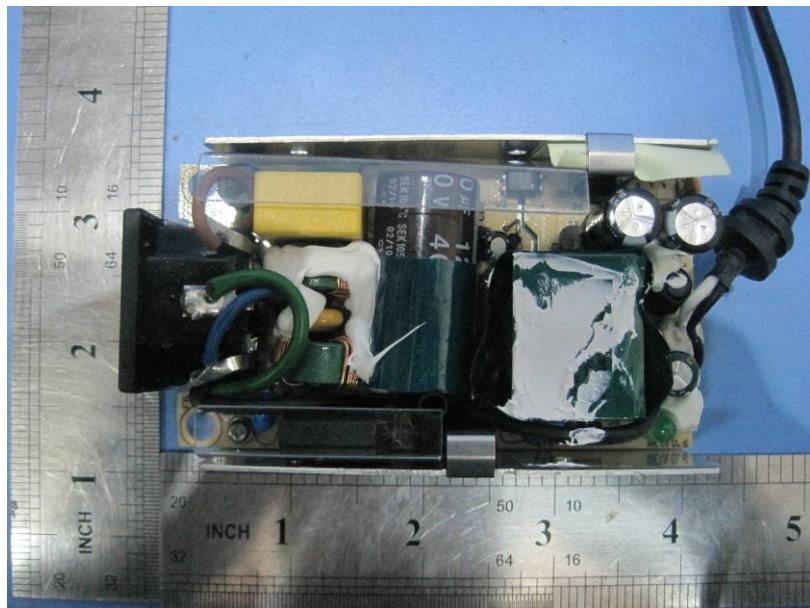


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8.20 Adapter – PCB View



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