

FCC 47 CFR PART 15 SUBPART C TEST REPORT

For

Applicant: Dongguan Yuanfeng Technology Co., Ltd.

No.62, South Fumin Road, Fumin Industrial Park, Dalang Town, Address:

Dongguan City, Guangdong, P.R. China

Product Name: GPS Portable Navigation Device

Model Name: 84F-3

Brand Name: N/A

FCC ID: YNG-GPF080001

Report No.: MOST101003F2A

Date of Issue: October. 22, 2010

Issued by: Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial

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1. VERIFICATION OF CONFORMITY

Equipment Under Test: GPS Portable Navigation Device

Brand Name: N/A

Model Number: 84F-3

FCC ID: YNG-GPF080001

Applicant: Dongguan Yuanfeng Technology Co., Ltd.

No.62, South Fumin Road, Fumin Industrial Park, Dalang Town, Dongguan

City, Guangdong, P.R. China

Manufacturer: Dongguan Yuanfeng Technology Co., Ltd.

No.62, South Fumin Road, Fumin Industrial Park, Dalang Town, Dongguan

City, Guangdong, P.R. China

Technical Standards: 47 CFR Part 15 Subpart C

File Number: MOST101003F2A

Date of test: October. 16, 2010 – October. 21, 2010

Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by *Most Technology Service Co., Ltd.* for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

July Wen

Terry Yang

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

Tested by (+ signature):

Petter Ping October. 22, 2010

Review by (+ signature):

October. 22, 2010

Approved by (+ signature):

October. 22, 2010

Report No.:MOST101003F2A

2. GENERAL INFORMATION

2.1 Product Information

FCC ID: YNG-GPF080001

| EUT- FM | |
|-------------------------------|--|
| Description: | GPS Portable Navigation Device |
| Model Name: | 84F-3 |
| Series Number: | 84F-1, 84F-2, 84F-4, 84F-5, 84F-6, 84F-7, 84F-8, 84F-9, 84F-51, 84F-52, 84F-53, 84F-54, 84F-55, 84F-56, 84F-57, 84F-58, 84F-59, PF08-4301, PF08-4302, PF08-4303, PF08-4304, PF08-4305, PF08-4306, PF08-4307, PF08-4308, PF08-4309, PF08-5001, PF08-5002, PF08-5003, PF08-5004, PF08-5005, PF08-5006, PF08-5007, PF08-5008, PF08-5009, 84F-53HD PF08-5004HD, 84F-54HD, 84F-56HD, 84F-59HD |
| Model Difference description: | The series models are different in appearance and color with the same functions. |
| Power Supply: | DC 5V by car adapter DC 12/24V; DC 5V by AC/DC adapter 100~240V 50/60Hz DC 3.7V by battery; |
| Frequency Range: | 88.1MHz – 107.9MHz |
| Channel Number: | 99 |
| Channel Spacing: | 200 KHz |
| Antenna Gain: | 0.1 dB |
| Modulation Technique: | FM |
| Temperature Range: | -10°C ~ +55°C |

NOTE:

- 1. The EUT can be set to the lowest and highest possible/tuneable operating frequency and cannot be tuned outside the US FM band.
- 2. Please refer to Appendix 2 for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

The objective of the report is to perform tests according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

| No. | Identity | Document Title |
|-----|-------------------------------------|-------------------------|
| 1 | 47 CFR Part 15 (10-1-05 Edition) | Radio Frequency Devices |

2.3 Test Standards and Results

Test items and the results are as bellow:

| No. | Section | Description | Result | Date of Test |
|-----|----------------------------|---------------------|--------|--------------|
| 1 | 15.239 | 20dB Bandwidth | PASS | 2010-10-21 |
| 2 | 15.239 | Frequency Range | PASS | 2010-10-21 |
| 3 | 15.239 15.209 15.205 | Radiated Emission | PASS | 2010-10-17 |
| 4 | 15.203 | Antenna Requirement | PASS | 2010-10-21 |

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

2.5 Support Equipment

| Device Type | Brand | Model | Series No. | Data Cable | Power Cable |
|-------------|-----------|-------|------------|------------|-------------|
| SD Card | Transcend | 1.0G | N/A | ١ | I/A |

Remark:

All the equipment/cables were placed in the worst-case [-configuration to maximize the emission during the test.

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. TEST FACILITY

Test Site: Most Technology Service Co., Ltd.

Location: No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen,

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16

requirements.

The FCC Registration Number is 490827.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements

that meet industry regulatory agency and accreditation agency requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of

measurement up to 1GHz.

4. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

| No. | Equipment | Manufacturer | Model No. | S/N | Calculator due date |
|-----|---|-------------------------------|-----------------------------|-------------|---------------------|
| 1 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2011/03/14 |
| 2 | Spectrum Analyzer | Agilent | E7405A | US44210471 | 2011/03/14 |
| 3 | L.I.S.N. | Rohde & Schwarz | ENV216 | 100093 | 2011/03/14 |
| 4 | Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | 2011/03/14 |
| 5 | Terminator | Hubersuhner | 50Ω | No.1 | 2011/03/14 |
| 6 | RF Cable | SchwarzBeck | N/A | No.1 | 2011/03/14 |
| 7 | Test Receiver | Rohde & Schwarz | ESPI | 101202 | 2011/03/14 |
| 8 | Bilog Antenna | Sunol | JB3 | A121206 | 2011/03/14 |
| 9 | Horn Antenna | TRC | N/A | N/A | 2011/03/14 |
| 10 | Cable | Resenberger | N/A | NO.1 | 2011/03/14 |
| 11 | Cable | SchwarzBeck | N/A | NO.2 | 2011/03/14 |
| 12 | Cable | SchwarzBeck | N/A | NO.3 | 2011/03/14 |
| 13 | DC Power Filter | DuoJi | DL2×30B | N/A | 2011/03/14 |
| 14 | Single Phase Power Line Filter | | | N/A | 2011/03/14 |
| 15 | 3 Phase Power Line Filter | DuoJi | FNF 402B30 | N/A | 2011/03/14 |
| 16 | Test Receiver | Rohde & Schwarz | Rohde & Schwarz ESCI 100492 | | 2011/03/14 |
| 17 | Absorbing Clamp | Luthi | MDS21 | 3635 | 2011/03/14 |
| 18 | Coaxial Switch | Anritsu Corp MP59B | | 6200283933 | 2011/03/14 |
| 19 | AC Power Source | Kikusui AC40MA | | LM003232 | 2011/03/14 |
| 20 | Test Analyzer | Test Analyzer Kikusui KHA1000 | | LM003720 | 2011/03/14 |
| 21 | Line Impendence Network | Kikusui | LIN40MA- PCR-L | LM002352 | 2011/03/14 |
| 22 | ESD Tester | Kikusui | KES4021 | LM003537 | 2011/03/14 |
| 23 | EMCPRO System | EM Test | UCS-500-M4 | V0648102026 | 2011/03/14 |
| 24 | Signal Generator | IFR | 2032 | 203002/100 | 2011/03/14 |
| 25 | Amplifier | A&R | 150W1000 | 301584 | 2011/03/14 |
| 26 | CDN | CDN FCC FCC-801-M2-25 | | 47 | 2011/03/14 |
| 27 | CDN | FCC | FCC-801-M3-25 | 107 | 2011/03/14 |
| 28 | EM Injection Clamp | FCC | F-203I-23mm | 403 | 2011/03/14 |
| 29 | RF Cable | MIYAZAKI | N/A | No.1/No.2 | 2011/03/14 |
| 30 | Universal Radio Communication Tester | ROHDE&SCHWARZ | CMU200 | 0304789 | 2011/03/14 |
| 31 | Telecommunication Antenna | European Antennas | PSA 75301R/170 | 0304213 | 2011/03/14 |

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15 C Requirements

5.1 20dB Bandwidth

FCC ID: YNG-GPF080001

5.1.1 Definition

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

5.1.2 Test Description

During the measurement, the EUT connected a MP3 player via USB cable and play audio file with max volume via FM transmitter to a car radio. The EUT was placed on a non-conductive table 0.8 meters above the floor. The table was rotated to an angle which presented the highest signal level. The occupied bandwidth was based on a 20 dB criteria (20 dB down either side of the emission from the peak emission). A drawing showing the test setup is given as Figure 1.

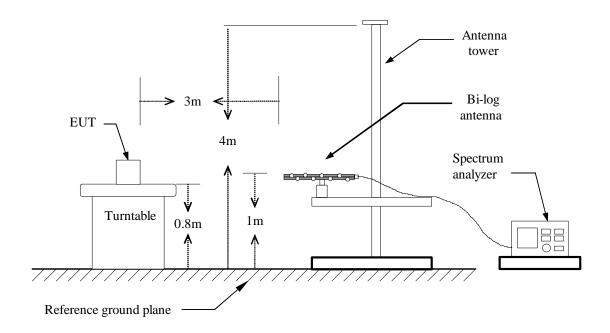
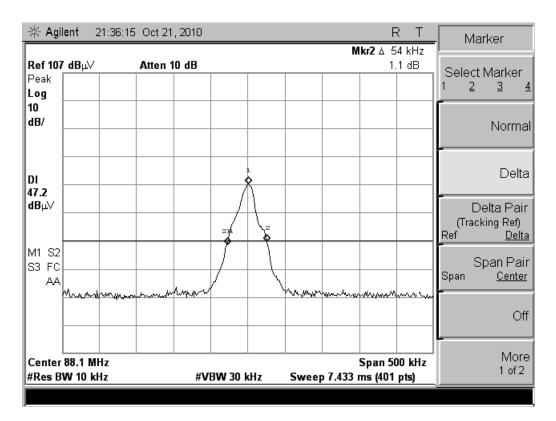


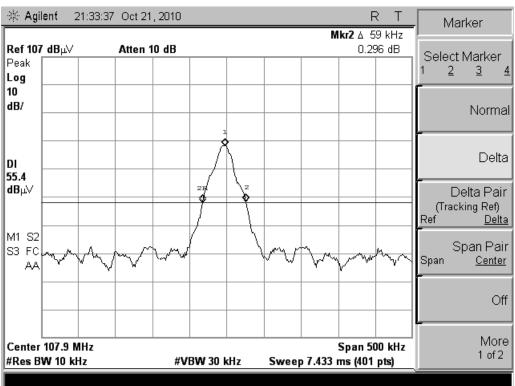
Figure 1: Radiated Emission Test Setup

5.1.3 Test Result

The maximum occupied bandwidth for the fundamental frequency 107.9 MHz is 59 kHz. This occupied bandwidth complies with the FCC requirement.

Test Plot A:





5.2 Frequency Range

5.2.1 Definition

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

5.2.2 Test Description

The EUT was placed on a non-conductive table 0.8 meters above the floor. The table was rotated to an angle which presented the highest signal level. The occupied bandwidth was based on a 26 dB criteria (26 dB down either side of the emission from the peak emission). A drawing showing the test setup is given as Figure 1.

5.2.3 Test Result

The operation frequency band is form 88.1 MHz to 106.9 MHz. This frequency range complies with the FCC requirement.

Refer to the occupied bandwidth test Plot A.

FCC ID: YNG-GPF080001

5.3 Radiated Emission

5.3.1 Definition

The field strength of any emission within this band (section 15.239, frequency between 88 MHz –108 MHz) shall not exceed 250 micro volts /meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209(Intentional Radiators general limit), as below.

| Frequency (MHz) | Field Strength (μV/m) | Measurement Distance (m) | | |
|-----------------|-----------------------|--------------------------|--|--|
| 1.705 - 30.0 | 30 | 30 | | |
| 30 - 88 | 100 | 3 | | |
| 88 - 216 | 150 | 3 | | |
| 216 - 960 | 200 | 3 | | |
| Above 960 | 500 | 3 | | |

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

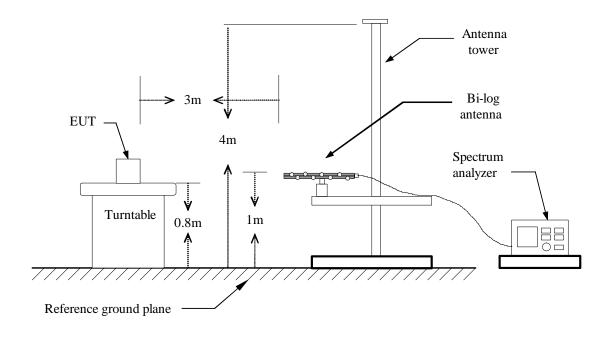
2. In the above emission table, the tighter limit applies at the band edges.

| Frequency (Hz) | Field Strength (µV/m at 3-meter) | Test Distance (m) | Field Strength (dBµV/m at 3-meter) |
|----------------|----------------------------------|----------------------|---------------------------------------|
| 1.705-30 | 30 | 3 | 69.54 |
| 30-88 | 100 | 3 | 40 |
| 88-216 | 150 | 3 | 43.5 |
| 216-960 | 200 | 3 | 46 |
| Above 960 | 500 | 3 | 54 |
| Fundamental | 250 | 3 | 48 |

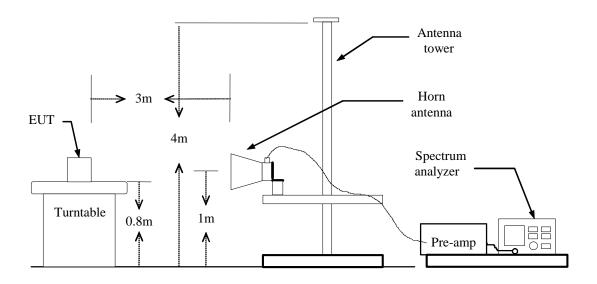
5.3.2 Test Configuration

Test Setup:

Blow 1GHz:



Above 1GHz:



5.3.3 Test Description

- 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 varied from 1m to 4m to find out the highest 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. Set the spectrum analyzer in the following setting as:

Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

5.3.4 Test Result

Operation Mode: CH Low **Test Date:** October. 17, 2010

Temperature:20°CTested by:Petter PingHumidity:70 % RHPolarity:Ver. / Hor.

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|----------------------|------------------------|
| 88.20 | V | Peak | 31.65 | 11.34 | 42.99 | 48.00 | -5.01 |
| | 1 | | | | 1 | | |
| 176.40 | V | Peak | 21.69 | 16.93 | 38.62 | 43.50 | -4.88 |
| 264.60 | V | Peak | 25.22 | 18.09 | 43.31 | 46.00 | -2.69 |
| 352.80 | V | Peak | 7.85 | 17.96 | 25.81 | 46.00 | -20.19 |
| | V | Peak | | | | | <-20 |
| | | | | | | | |
| 88.20 | Н | Peak | 28.74 | 11.34 | 40.08 | 48.00 | -7.92 |
| | | | | | • | | |
| 176.40 | Н | Peak | 13.23 | 16.93 | 30.16 | 43.50 | -13.34 |
| 264.60 | Н | Peak | 25.87 | 18.09 | 43.96 | 46.00 | -2.04 |
| 352.80 | Н | Peak | 9.14 | 17.96 | 27.10 | 46.00 | -18.90 |
| | Н | Peak | | | | | <-20 |

Notes

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100 kHz.
- 5. No additional spurious emissions found between lowest internal generated and 30 MHz

FCC ID: YNG-GPF080001

Operation Mode: CH Middle Test Date: October. 17, 2010

Temperature:20°CTested by:Petter PingHumidity:70 % RHPolarity:Ver. / Hor.

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|----------------------|------------------------|
| 97.90 | V | Peak | 31.32 | 12.72 | 44.04 | 48.00 | -3.96 |
| | | | | | | | |
| 195.87 | V | Peak | 22.77 | 16.95 | 39.72 | 43.50 | -3.78 |
| 293.84 | V | Peak | 20.07 | 19.32 | 39.39 | 46.00 | -6.61 |
| 391.81 | V | Peak | 10.94 | 18.39 | 29.33 | 46.00 | -16.67 |
| 489.78 | V | Peak | 6.75 | 21.70 | 28.45 | 46.00 | -17.55 |
| | | | | | | | |
| 97.90 | Н | Peak | 29.11 | 12.72 | 41.83 | 48.00 | -6.17 |
| | | | | | _ | | |
| 195.87 | Н | Peak | 22.75 | 16.95 | 39.70 | 43.50 | -3.80 |
| 293.84 | Н | Peak | 24.10 | 19.32 | 43.42 | 46.00 | -2.58 |
| 391.81 | Н | Peak | 16.38 | 18.39 | 34.77 | 46.00 | -11.23 |
| | Н | Peak | | | | | <-20 |

Notes:

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100 kHz.
- 5. No additional spurious emissions found between lowest internal generated and 30 MHz

Operation Mode: CH High Test Date: October. 17, 2010

Temperature:20°CTested by:Petter PingHumidity:70 % RHPolarity:Ver. / Hor.

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|----------------------|------------------------|
| 107.90 | V | Peak | 30.46 | 15.41 | 45.87 | 48.00 | -2.13 |
| 040.04 | ., | | | 10.11 | 10.11 | 40.00 | |
| 216.24 | V | Peak | 23.97 | 16.14 | 40.11 | 46.00 | -5.89 |
| 323.91 | V | Peak | 24.13 | 17.00 | 41.13 | 46.00 | -4.87 |
| 540.22 | V | Peak | 11.08 | 22.20 | 33.28 | 46.00 | -12.72 |
| 756.53 | V | Peak | 7.64 | 25.67 | 33.31 | 46.00 | -12.69 |
| | | | | | | | |
| 107.90 | Н | Peak | 27.04 | 15.41 | 42.45 | 48.00 | -5.55 |
| | 1 | 1 | | 1 | 1 | | |
| 216.24 | Н | Peak | 23.23 | 16.14 | 39.37 | 43.50 | -4.13 |
| 323.91 | Н | Peak | 23.16 | 17.00 | 40.16 | 46.00 | -5.84 |
| 540.22 | Н | Peak | 10.43 | 22.20 | 32.63 | 46.00 | -13.37 |
| 756.53 | Н | Peak | 9.85 | 25.67 | 35.52 | 46.00 | -10.48 |

Notes:

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100 kHz.
- 5. No additional spurious emissions found between lowest internal generated and 30 MHz

5.4 Antenna Requirement

5.4.1 Definition

An analysis of the *84F-3* was performed to determine compliance with FCC Section 15.203. This section requires specific handling and control of antennas used for devices subject to regulations.

5.4.2 Evaluation Procedure

The structure and application of the *84F-3* was analyzed with respect to the rules. The antenna is an internal antenna, and is not accessible to the user. An auxiliary antenna port is not present.

5.4.3 Evaluation Criteria

Section 15.203 of the rules states that the subject device must meet at least one of the following criteria:

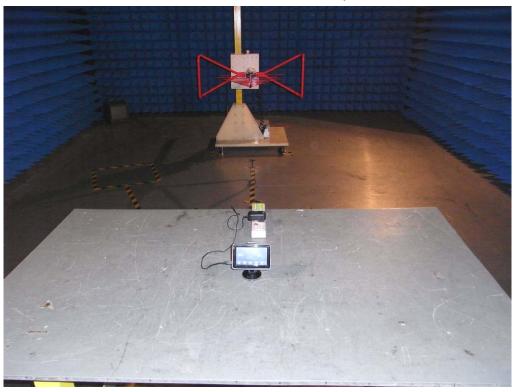
- (a) Antenna must be permanently attached to the unit.
- (b) Antenna must use a unique type of connector to attach to the EUT.
- (c) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.4.4 Evaluation Results

The 84F-3 meets the criteria of this rule by virtue of having an internal antenna inaccessible to the user. The EUT is therefore compliant.

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Radiated Emission Test Setup



APPENDIX 2 PHOTOGRAPHS OF EUT

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE



PHOTO OF POWER SUPPLY



PHOTO OF USB LINE



PHOTO OF CAR ADAPTOR



PHOTO OF TRESTLE TABLE



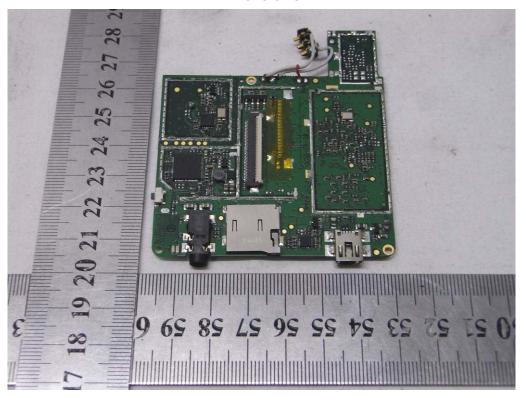
PHOTO OF THE ENTIRE SAMPLE



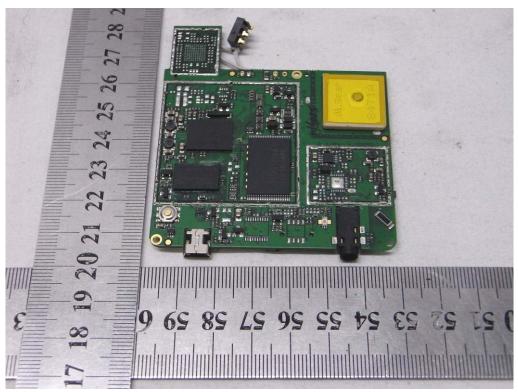
PHOTO OF THE BATTERY



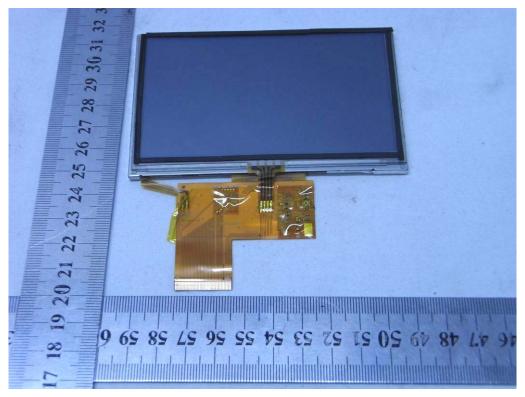
INTERNAL PHOTO OF SAMPLE - 1



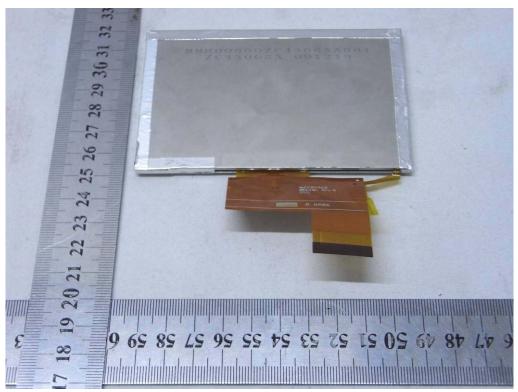
INTERNAL PHOTO OF SAMPLE -2



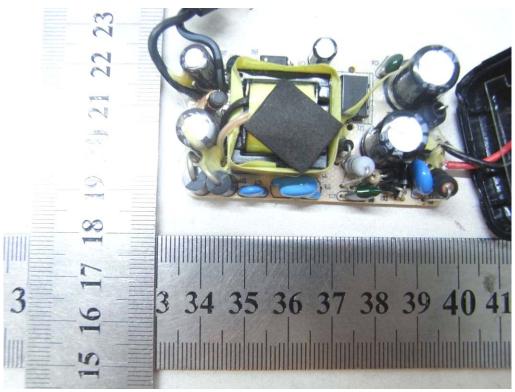
INTERNAL PHOTO OF SAMPLE - 3

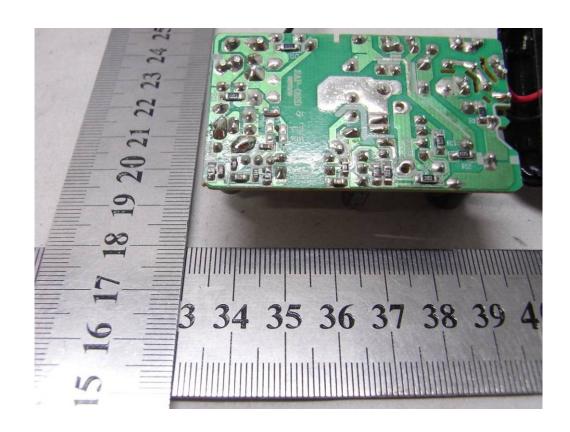


INTERNAL PHOTO OF SAMPLE - 4

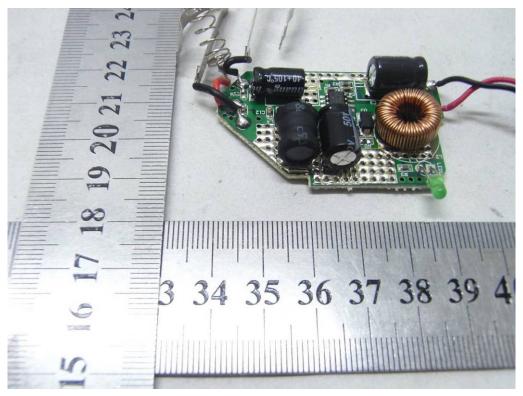


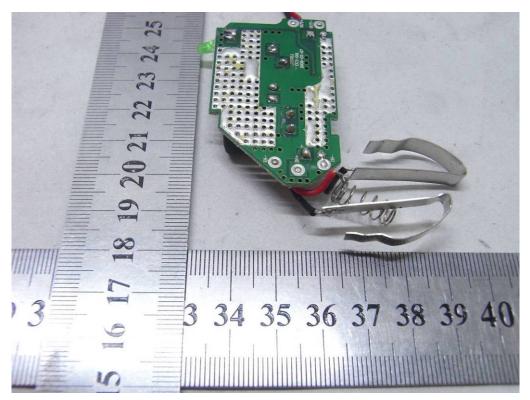
INTERNAL PHOTO OF POWER SUPPLY





INTERNAL PHOTO OF CAR SUPPLY





-----END OF REPORT-----