

FCC TEST REPORT

FCC ID: SY4-A01023

On Behalf of

Shanghai Huace Navigation Technology LTD.

GNSS Receiver (i70+)

Model No.: 1180271031142

Prepared for : Shanghai Huace Navigation Technology LTD.

Building D, 599 Gaojing Road, Qingpu District, Shanghai,

Address : China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.

Address Building i, No.2, Lixin Road, Fuyong Street, Bao'an District,

518103, Shenzhen, Guangdong, China

Report Number : T1881286 01 Date of Receipt : August 15, 2018

Date of Test : August 15, 2018-October 24, 2018

Date of Report : October 24, 2018

Version Number : REV0

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TEST REPORT DECLARATION

Applicant : Shanghai Huace Navigation Technology LTD.

Address : Building D, 599 Gaojing Road, Qingpu District, Shanghai, China

Manufacturer : Shanghai Huace Navigation Technology LTD.

Address : Building D, 599 Gaojing Road, Qingpu District, Shanghai, China

EUT Description : GNSS Receiver (i70+)

(A) Model No. : 1180271031142

(B) Trademark : [H[N]]

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2017, ANSI C63.4:2014

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part15 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:

Reak Yang
Project Engineer

Simple Guan
Project Manager

Date of issue..... October 24, 2018

Revision History

Report No.: T1881286 01

| Revision | Issue Date | Revisions | Revised By |
|----------|------------------|------------------------|-------------|
| REV0 | October 24, 2018 | Initial released Issue | Simple Guan |

1. General Information

1.1.Description of Device (EUT)

Product Name : GNSS Receiver (i70+)

Model Number : 1180271031142

Note : 1. The model name "1180271031142" information not listed on marking

plate at testing & certification stage, but will be listed in white rectangular

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frame of marking plate at MP stage.

2. The model name "1180271031142" corresponding client's internal

model is "GNSS Receiver (i70+) i70F-WSA9C".

Trademark : [H[N]]

Highest Frequency: More than 108MHz

Test Voltage : DC 7.2V from battery or 12-36VDC, DC 12V From adapter

Software version : V1.5.99 Hardware version : V2.1

1.2. Accessories of Device (EUT)

Accessories 1 : /
Manufacturer : /
Model : /
Ratings : /

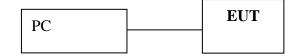
1.3. Tested Supporting System Details.

| Manufacturer | Description | Model | Serial Number | FCC Approval |
|--------------|---------------------------|--------------|----------------------------|-----------------|
| ACER | ACER USB Keyboard SK-9625 | | KBUSB1580500037E010 0 | FCC DoC |
| ACER | USB Mouse | MS.11200.014 | M-UAY-ACR2 | FCC DoC |
| HP | HP Printer | | CNCJ410726 | CE |
| ACER | Monitor | G205HV | SNID:10306738385 | CE |
| ACER | Personal Computer | ASPIRE M1830 | PTSF90C00305005CAC3 000 | DOC |

1.4.Block Diagram of connection between EUT and simulators

For Test

Data Transmitting Mode



EUT: GNSS Receiver (i70+)

Signal Cable Description of the above Support Units

| No. | Port Name | Cable | Length | Shielded (Yes or No) | Detachable (Yes or No) |
|-----|-----------|-------|--------|-------------------------|---------------------------|
| / | / | / | / | / | / |
| / | / | / | / | / | / |

2. Summary Of Standards And Results

2.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

| EMISSION | | | | | |
|---------------------------------|------------------|---------|---------|--|--|
| Description of Test Item | Standard | Limits | Results | | |
| Power Line Conducted | FCC Part 15:2017 | Class B | D | | |
| Emission Test | ANSI C63.4:2014 | Class D | 1 | | |
| D I' (LE ' ' TE (| FCC Part 15:2017 | CI D | D | | |
| Radiated Emission Test | ANSI C63.4:2014 | Class B | r | | |

Note: 1. P is an abbreviation for Pass.

2. F is an abbreviation for Fail.

3. N/A is an abbreviation for Not Applicable.

2.2.Test Mode Description

| For Radiated Emission Test | | | | | | |
|---|---------------------------------|---------------------|--|--|--|--|
| Mode No. | Mode No. Test Mode Test Voltage | | | | | |
| ※ 1. | Data transmitting | DC 12V From adapter | | | | |
| 2. GNSS Receive DC 12V From adapter | | | | | | |
| Note: $\times 2$ is worst case mode tests, so this report only reflected the worst mode in each part. | | | | | | |

| For Power Line Conducted Emission Test | | | | | | |
|--|---------------------------------|---------------------|--|--|--|--|
| Mode No. | Mode No. Test Mode Test Voltage | | | | | |
| 1. | Data transmitting | DC 12V From adapter | | | | |
| 2. | GNSS Receive | DC 12V From adapter | | | | |

2.3.Test Equipment List

| For Pov | For Power Line Conducted Emission Test Equipment: | | | | | | | | |
|---------|---|--------------------|-----------|------------|------------|---------------|--|--|--|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval | | | |
| 1. | Test Receiver | Rohde & Schwarz | ESCI | 101165 | 2018.09.21 | 1 Year | | | |
| 2. | L.I.S.N.#1 | Schwarz beck | NSLK8126 | 8126-466 | 2018.09.21 | 1 Year | | | |
| 3. | L.I.S.N.#2 | ROHDE&SCH WARZ | ENV216 | 101043 | 2018.09.21 | 1 Year | | | |
| 4. | Pulse Limiter | Schwarz beck | 9516F | 9618 | 2018.09.21 | 1 Year | | | |

| For Fr | For Frequency Range 30MHz~1GHz Radiated Emission Test Equipment: | | | | | | | |
|---|--|---------------|-----------|----------------------------|---------------|--------|--|--|
| Item Equipment Manufacturer Model No. Serial No. Last Cal. Inte | | | | | Cal. Interval | | | |
| 1 | Test Receiver | Rohde&Schwarz | ESR | 1316.3003K0 3-102082-Wa | 2018.09.21 | 1 Year | | |
| 2 | Bilog Antenna | Schwarz beck | VULB 9168 | 9168-438 | 2018.04.13 | 2 Year | | |

| For Fre | For Frequency Range above 1GHz Radiated Emission Test Equipment: | | | | | | | |
|---------|--|-------------------|----------------|----------------------|------------|---------------|--|--|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval | | |
| 1 | Spectrum analyzer | ROHDE&SCHW ARZ | FSU | 1166.1660.26 | 2018.09.21 | 1 Year | | |
| 2 | Horn Antenna | Schwarz beck | BBHA 9120 D | BBHA 9120 D(1201) | 2018.04.13 | 2 Year | | |
| 3 | Amplifier | Agilent | 8449B | 3008A02664 | 2018.09.21 | 1 Year | | |

2.4.Test Facility

Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission

Registration Number: 293961 Designation Number: CN1236

July 25, 2017 Certificated by IC Registration Number: 12135A

2.5. Measurement Uncertainty

| Test Item | Uncertainty | | |
|---|------------------------------------|--|--|
| Uncertainty for Conduction emission test | 2.74dB | | |
| Uncertainty for Radiation Emission test | 3.77 dB (Distance: 3m Polarize: V) | | |
| (<1G) | 3.80 dB (Distance: 3m Polarize: H) | | |
| Uncertainty for Padiation Emission tast (>1C) | 4.13 dB (Distance: 3m Polarize: V) | | |
| Uncertainty for Radiation Emission test (>1G) | 4.16 dB (Distance: 3m Polarize: H) | | |
| (95% confidence levels, k=2) | | | |

3. Power Line Conducted Emission Test

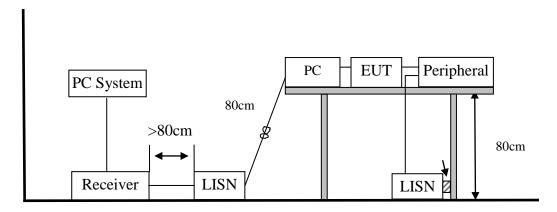
3.1.Test Limits

| Frequency | | | Maximum RF Line Voltage | | |
|-----------|---|--------|-------------------------|---------------|--|
| | | | Quasi-Peak Level | Average Level | |
| | | | dB(μV) | $dB(\mu V)$ | |
| 150kHz | ~ | 500kHz | 66 ~ 56* | 56 ~ 46* | |
| 500kHz | ~ | 5MHz | 56 | 46 | |
| 5MHz | ~ | 30MHz | 60 | 50 | |

Notes:

- 1. Emission level=Read level + LISN factor-Preamp factor + Cable loss
- 2. * Decreasing linearly with logarithm of frequency.
- 3. The lower limit shall apply at the transition frequencies.

3.2.Block Diagram of Test Setup



3.3. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 3.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

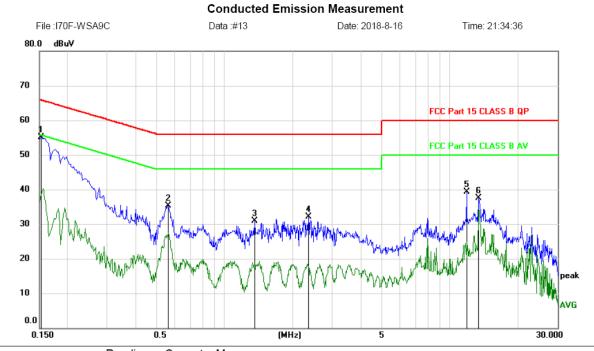
3.5.Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4:2014 on conducted Emission test.
- (2) The frequency range from 150kHz to 30MHz is checked, the bandwidth of test receiver (R&S TEST RECEIVER ESCI) is set at 9kHz.

3.6.Test Results

| Test D | t Date : 2018.08.16 Temperature : 23.9°C | | | | | | | | | |
|--------|--|------|--|--------------------|----|---------------------|--|--|--|--|
| Test E | t Engineer : Reak Yang Humidity : 46% | | | | | | | | | |
| Test M | lode | •• | Data transmitting | | | | | | | |
| Test R | esults | : | Pass | | | | | | | |
| Note: | 1. The | tes | t results are listed in next pages. | | | | | | | |
| | 1. If the | e li | mits for the measurement with the ave | rage detector are | me | t when using a | | | | |
| | receive | r w | ith a peak detector, the test unit shall b | e deemed to meet | bo | oth limits and the | | | | |
| | measur | em | ent with the average detector and quas- | i-peak detector ne | ed | not be carried out. | | | | |
| | 2. If the limits for the measurement with the average detector are met when using a | | | | | | | | | |
| | receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and | | | | | | | | | |
| | the mea | isu | rement with the average detector need | not be carried out | | | | | | |

Polarity: L



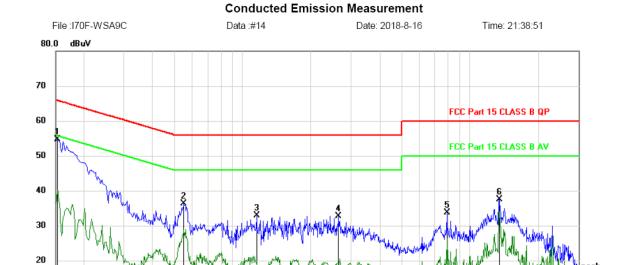
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margir | ı | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1529 | 54.95 | 0.20 | 55.15 | 65.84 | -10.69 | peak | |
| 2 | | 0.5610 | 35.03 | 0.20 | 35.23 | 56.00 | -20.77 | peak | |
| 3 | | 1.3588 | 30.76 | 0.20 | 30.96 | 56.00 | -25.04 | peak | |
| 4 | | 2.3518 | 31.82 | 0.22 | 32.04 | 56.00 | -23.96 | peak | |
| 5 | | 11.8320 | 38.89 | 0.44 | 39.33 | 60.00 | -20.67 | peak | |
| 6 | | 13.3589 | 37.10 | 0.46 | 37.56 | 60.00 | -22.44 | peak | |
| | | | | | | | | | |

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

^{*:}Maximum data x:Over limit !:over margin

30.000

Polarity: N



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margir | 1 | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBu∨ | dB | Detector | Comment |
| 1 | * | 0.1529 | 54.42 | 0.20 | 54.62 | 65.84 | -11.22 | peak | |
| 2 | | 0.5520 | 36.05 | 0.20 | 36.25 | 56.00 | -19.75 | peak | |
| 3 | | 1.1489 | 32.78 | 0.20 | 32.98 | 56.00 | -23.02 | peak | |
| 4 | | 2.6488 | 32.48 | 0.24 | 32.72 | 56.00 | -23.28 | peak | |
| 5 | | 7.9230 | 33.32 | 0.34 | 33.66 | 60.00 | -26.34 | peak | |
| 6 | | 13.4190 | 37.00 | 0.46 | 37.46 | 60.00 | -22.54 | peak | |
| | | | | | | | | | |

(MHz)

0.5

10

0.0

0.150

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

^{*:}Maximum data x:Over limit !:over margin

4. RADIATED EMISSION TEST

4.1.Test Limit

|] | Freque | ency | Distance | Distance | | | |
|-----|--------|------|----------|----------------------|--|--|--|
| | MH | [z | (Meters) | (Meters) | | | |
| 30 | ~ | 88 | 3 | 40.0 | | | |
| 88 | ~ | 216 | 3 | 43.5 | | | |
| 216 | ~ | 960 | 3 | 46.0 | | | |
| 960 | ~ | 1000 | 3 | 54.0 | | | |
| A | bove | 1GHz | 3 | 74(Peak) 54(Average) | | | |

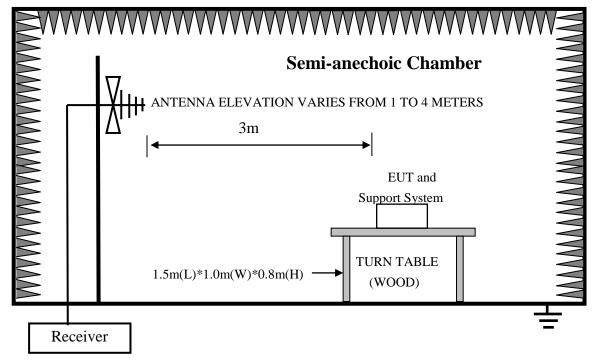
Notes:

- 1. The smaller limit shall apply at the cross point between two frequency bands.
- 2. Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
- 3. Frequency range of radiated measurements:

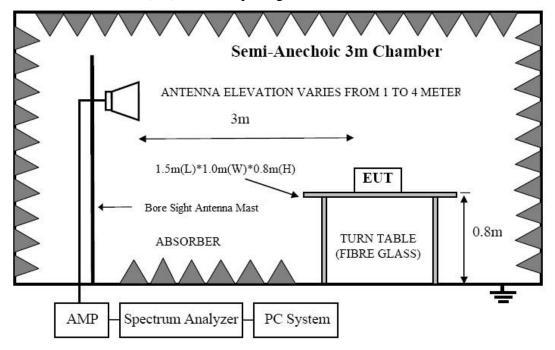
| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz) |
|--|--|
| Below 1.705 | 30 |
| 1.705-108 | 1000 |
| 108-500 | 2000 |
| 500-1000 | 5000 |
| Above 1000 | 5th harmonic of the highest frequency or 40 GHz, whichever is lower. |

4.2.Block Diagram of Test Setup

In Semi Anechoic Chamber (3m) Test Setup Diagram for 30MHz~1000MHz



In Semi Anechoic Chamber (3m) Test Setup Diagram for Above 1GHz



4.3. Configuration of EUT on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

4.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 4.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

4.5.Test Procedure

- (1) The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4:2014 on Radiated Emission test.
- (2) For the radiated emission test above 1GHz:
 - Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- (3) The frequency range from 30MHz to 1000MHz is checked, the bandwidth of test receiver (R&S TEST RECEIVER ESR) is set at 120kHz.
- (4) The frequency range from above 1GHz is checked, the bandwidth of spectrum analyzer (Spectrum Analyzer FSU) is set at 1MHz.
- (5) The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values, the frequency range from 1GHz to 6GHz was pre-scanned with a peak detector and all final readings of measurement from Spectrum Analyzer are peak and average values checked, all measurement distance is 3m in 3m semi anechoic chamber.
- (6) The test results are reported on Section 4.7.

4.6.Test Results

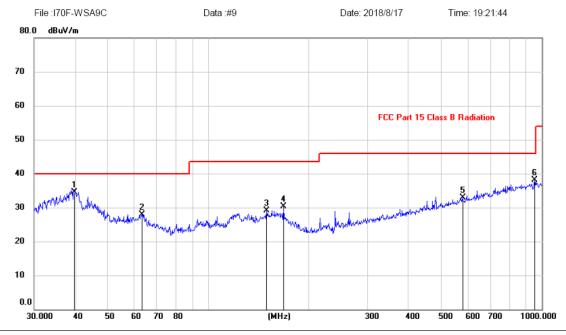
| Frequency Range | : | 30MHz~1000MHz | | | |
|-----------------|---|-------------------|-------------|---|-------|
| Test Date | : | 2018.08.17 | Temperature | : | 24.2℃ |
| Test Engineer | : | Reak Yang | Humidity | : | 53% |
| Test Mode | : | Data transmitting | | | |
| Test Results | : | PASS | | | |

Note: 1. The test results are listed in next pages.

2. If the limits for the measurement with the quasi-peak detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.

Antenna polarity: Vertical

Radiated Emission Measurement



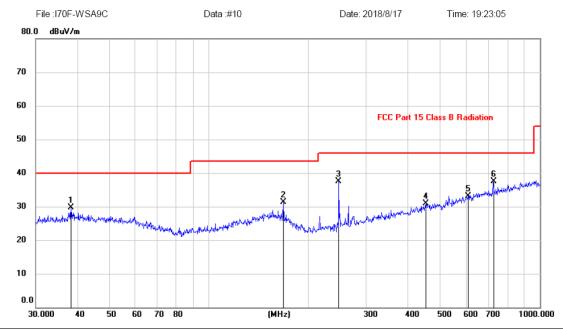
| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | Antenna Height | Table Degree | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 39.5757 | 20.34 | 14.22 | 34.56 | 40.00 | -5.44 | QP | | | |
| 2 | | 63.3132 | 15.79 | 12.20 | 27.99 | 40.00 | -12.01 | peak | | | |
| 3 | | 149.4857 | 14.62 | 14.52 | 29.14 | 43.50 | -14.36 | peak | | | |
| 4 | | 168.4138 | 16.33 | 13.90 | 30.23 | 43.50 | -13.27 | peak | | | |
| 5 | | 578.6699 | 14.04 | 18.94 | 32.98 | 46.00 | -13.02 | peak | | | |
| 6 | | 952.0937 | 14.44 | 23.58 | 38.02 | 46.00 | -7.98 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.

^{2.}Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Antenna polarity: Horizontal

Radiated Emission Measurement



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 38.3462 | 15.74 | 13.95 | 29.69 | 40.00 | -10.31 | peak | | | |
| 2 | | 168.4138 | 17.47 | 13.90 | 31.37 | 43.50 | -12.13 | peak | | | |
| 3 | * | 246.8149 | 25.52 | 12.03 | 37.55 | 46.00 | -8.45 | peak | | | |
| 4 | | 454.3100 | 13.86 | 17.05 | 30.91 | 46.00 | -15.09 | peak | | | |
| 5 | | 607.7867 | 13.44 | 19.67 | 33.11 | 46.00 | -12.89 | peak | | | |
| 6 | | 724.2611 | 16.22 | 21.24 | 37.46 | 46.00 | -8.54 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.

^{2.}Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

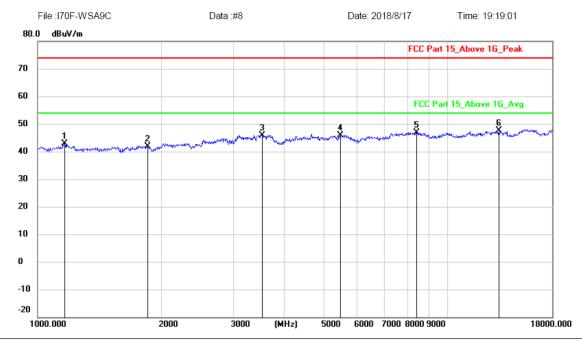
| Frequency Range | : | Above 1GHz | | | |
|-----------------|---|-------------------|-------------|---|-------|
| Test Date | : | 2018.08.17 | Temperature | : | 24.2℃ |
| Test Engineer | : | Reak Yang | Humidity | : | 53% |
| Test Mode | : | Data transmitting | | | |
| Test Results | : | Pass | | | |

Note: 1. The data is shown in the next page.

2. If the limits for the measurement with the quasi-peak detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.

Antenna polarity: Vertical

Radiated Emission Measurement



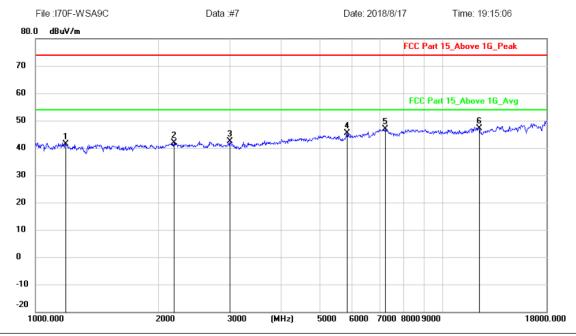
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | Antenna Height | Table Degree | |
|-----|-----|---------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | 1 | 165.546 | 51.33 | -8.37 | 42.96 | 74.00 | -31.04 | peak | | | |
| 2 | 1 | 856.215 | 48.15 | -6.21 | 41.94 | 74.00 | -32.06 | peak | | | |
| 3 | 3 | 536.340 | 52.28 | -6.29 | 45.99 | 74.00 | -28.01 | peak | | | |
| 4 | 5 | 487.260 | 47.74 | -1.75 | 45.99 | 74.00 | -28.01 | peak | | | |
| 5 | 8 | 416.584 | 43.51 | 3.42 | 46.93 | 74.00 | -27.07 | peak | | | |
| 6 | * 1 | 3326.74 | 41.78 | 5.79 | 47.57 | 74.00 | -26.43 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.

^{2.}Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Antenna polarity: Horizontal

Radiated Emission Measurement



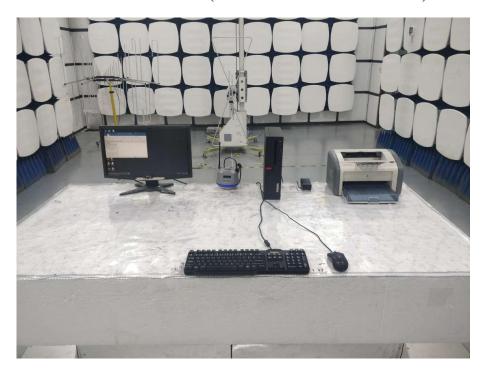
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 1185.936 | 49.74 | -8.29 | 41.45 | 74.00 | -32.55 | peak | | | |
| 2 | | 2188.663 | 45.42 | -3.43 | 41.99 | 74.00 | -32.01 | peak | | | |
| 3 | | 2999.187 | 44.67 | -2.31 | 42.36 | 74.00 | -31.64 | peak | | | |
| 4 | | 5830.640 | 46.49 | -1.18 | 45.31 | 74.00 | -28.69 | peak | | | |
| 5 | | 7242.052 | 43.47 | 3.45 | 46.92 | 74.00 | -27.08 | peak | | | |
| 6 | * | 12326.27 | 41.74 | 5.48 | 47.22 | 74.00 | -26.78 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.

^{2.}Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

5. PHOTOGRAPH

5.1. Photo of Radiated Emission Test (In Semi Anechoic Chamber)



Below 1G

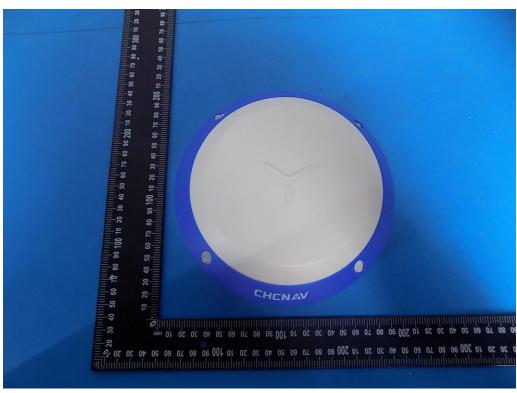


Above 1GHz

5.2.Photo of Power Line Conducted Emission Test

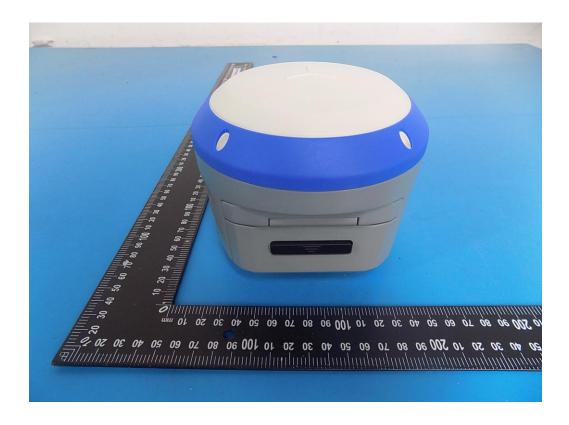


6. PHOTOS OF THE EUT



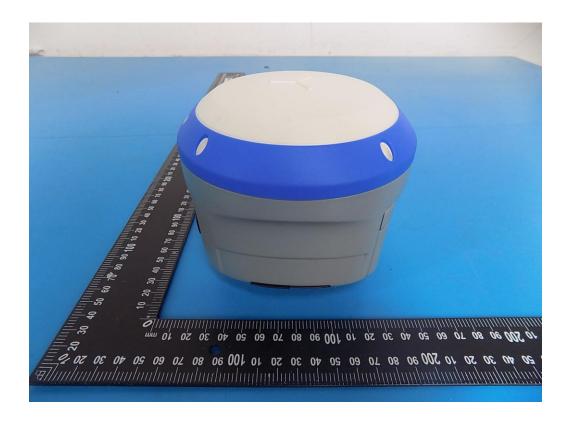








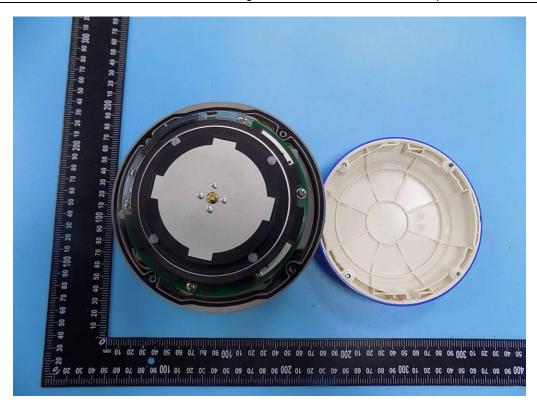


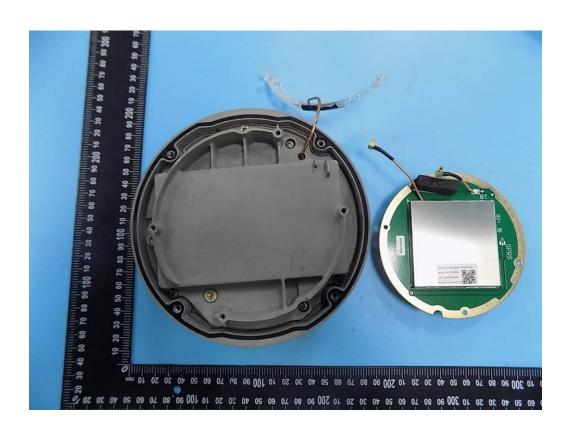


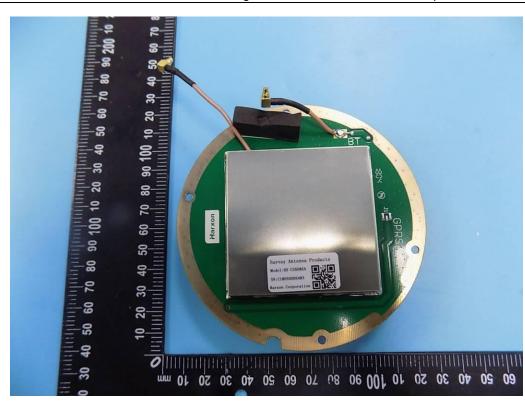


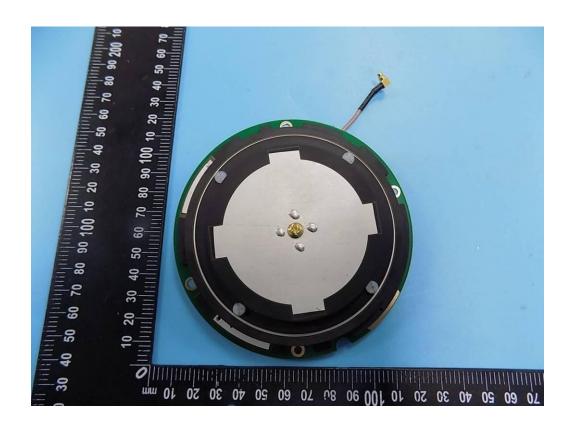






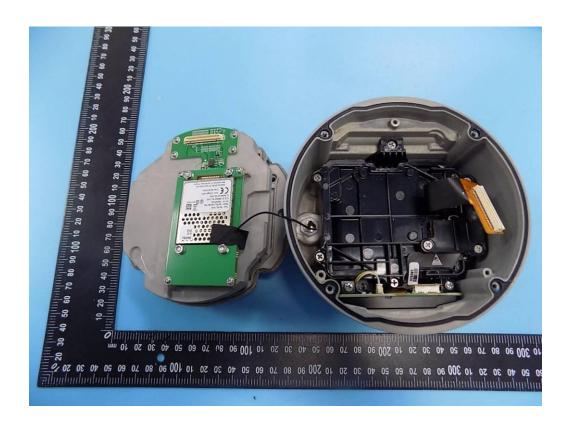


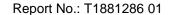




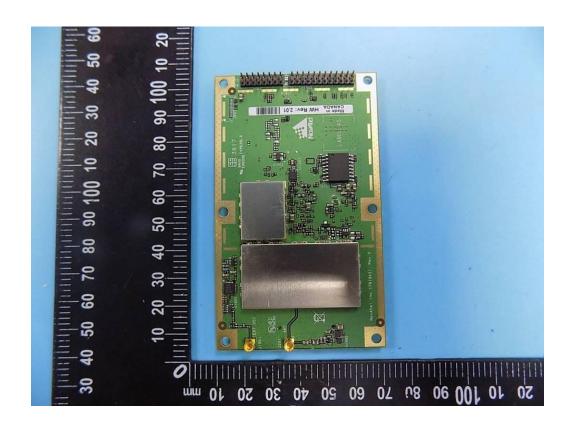






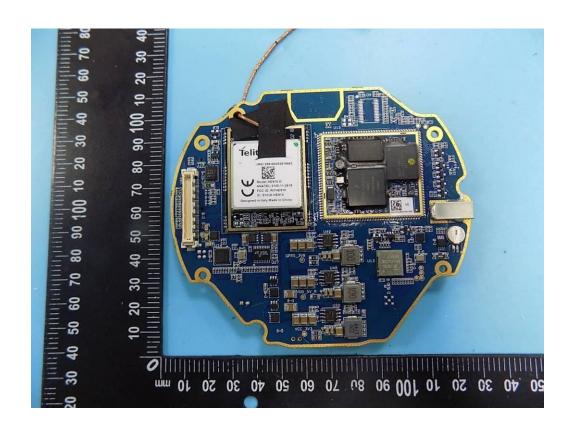


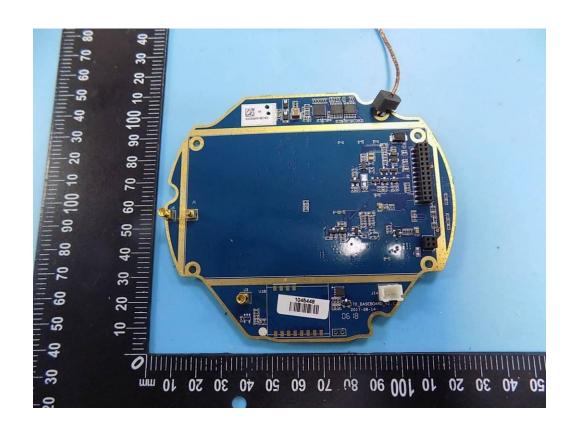


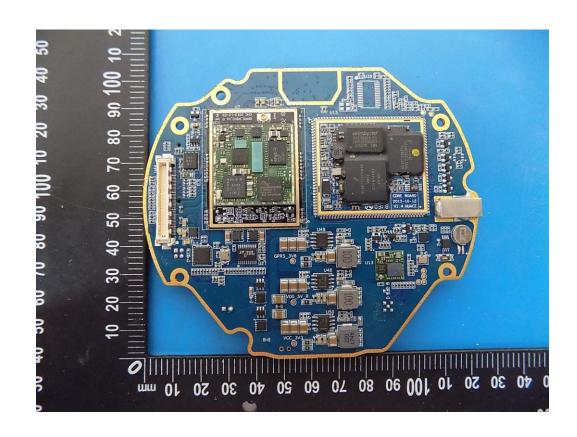


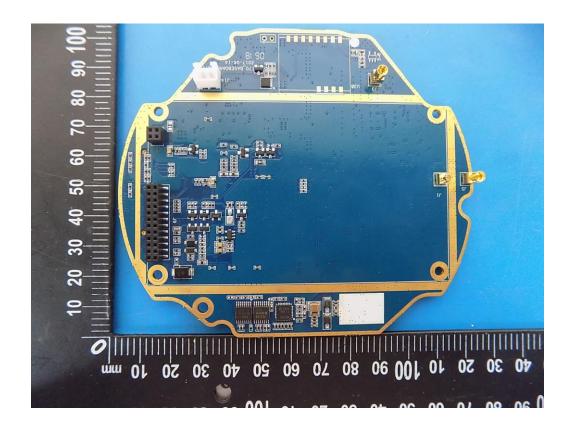


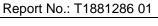


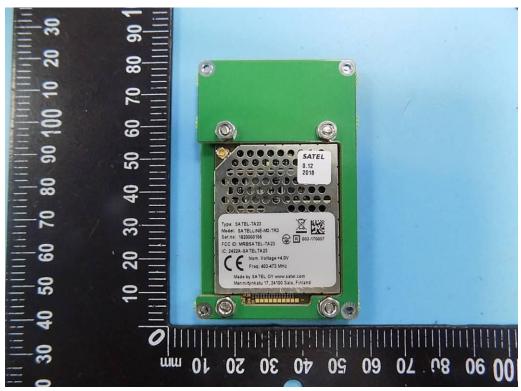


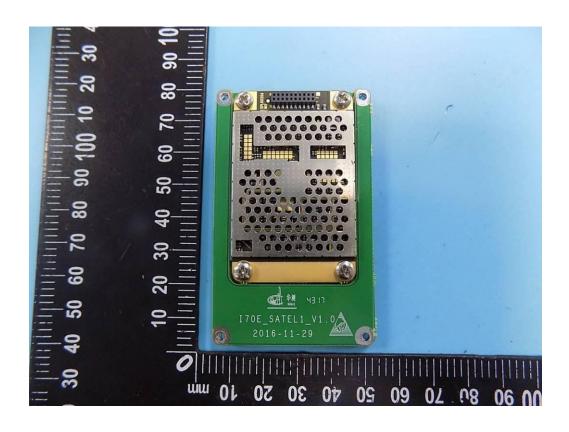


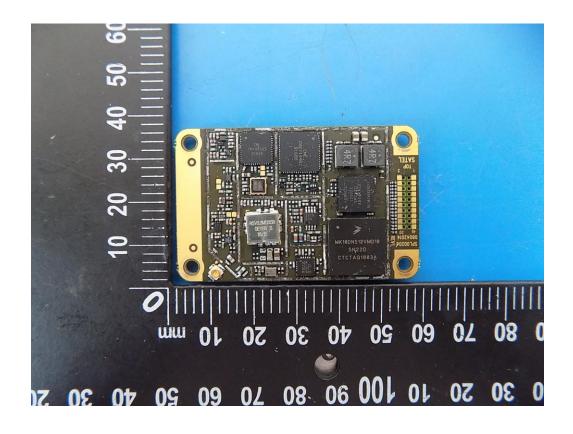


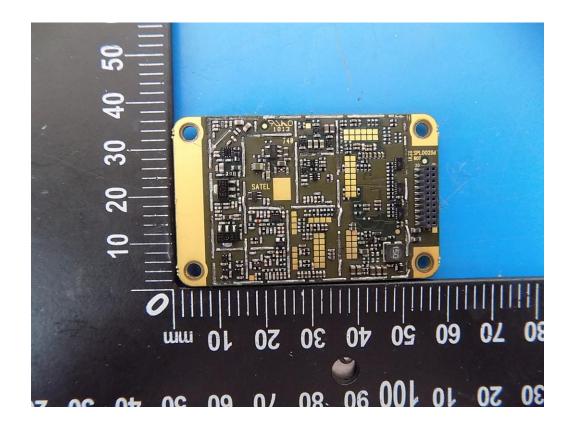


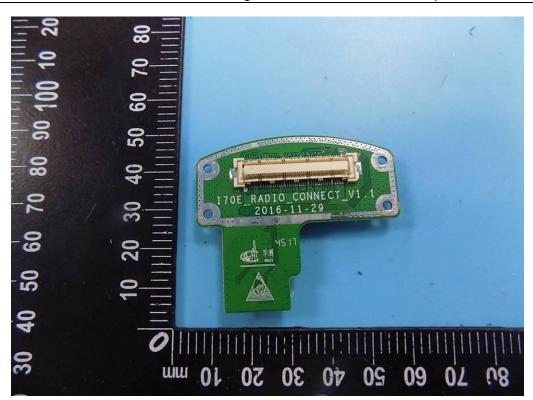


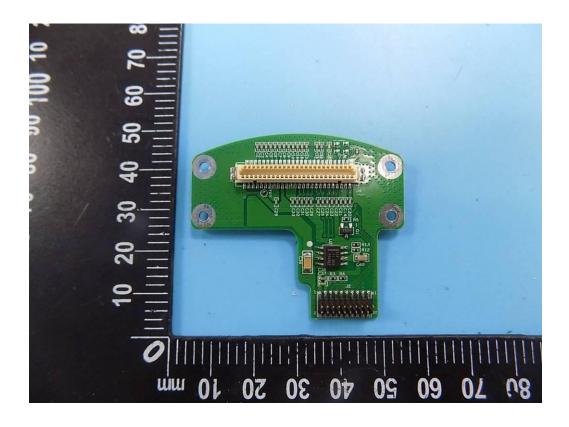




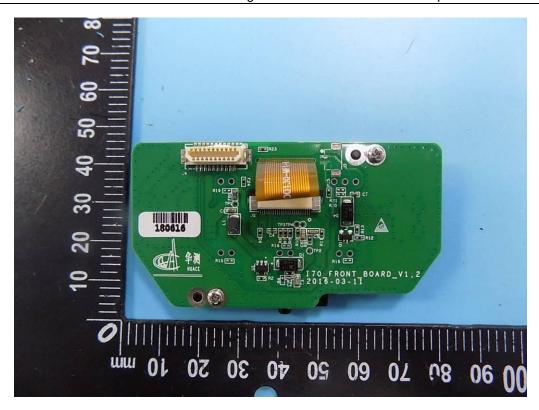


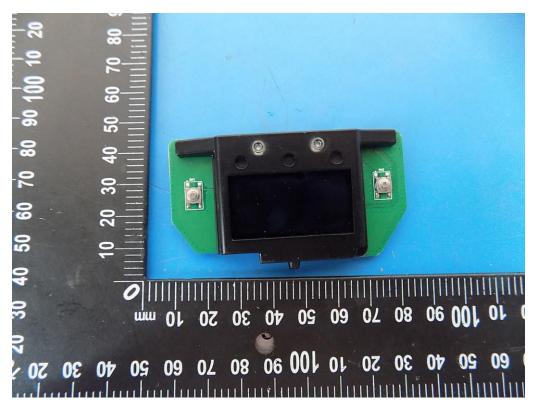


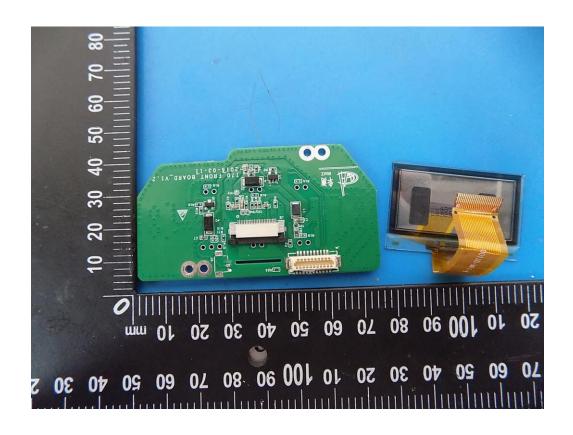


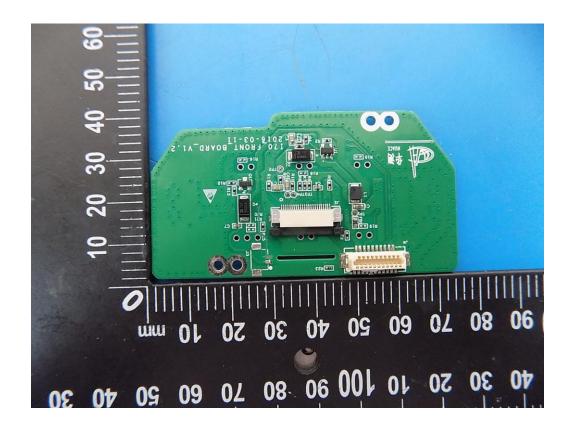


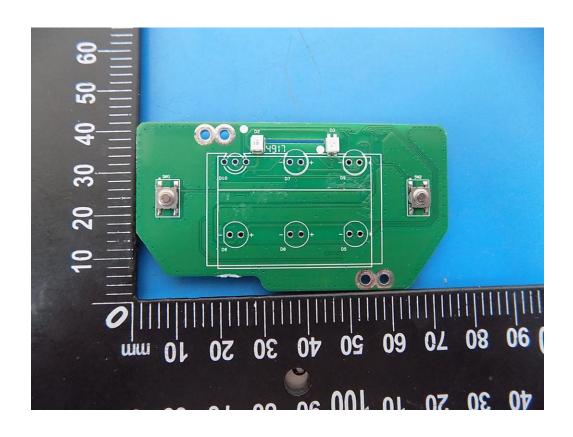


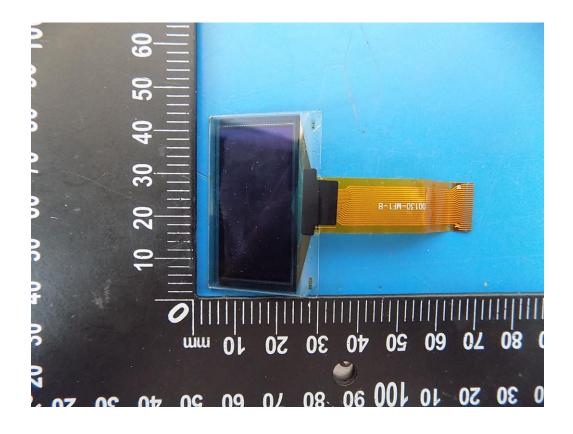


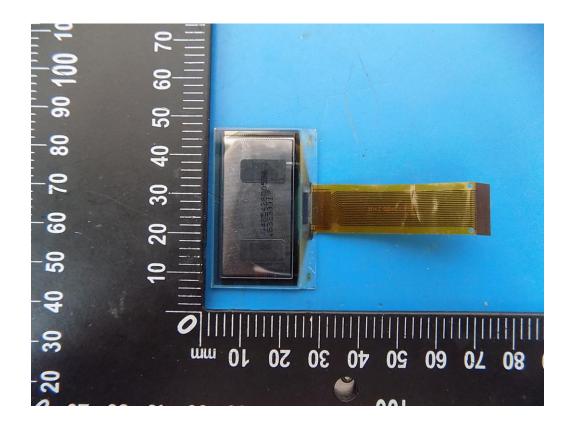














-----End of report-----