

**FCC PART 15C TEST REPORT FOR CERTIFICATION**  
**On Behalf of**

**Chunghsin Technology Group CO.,LTD**

**10.1" ANDROID TABLET WITH DETACHABLE KEYBOARD**

**Model Number: ONA19TB007**

**FCC ID: 2AE2WT1016M**

|               |                                                                     |
|---------------|---------------------------------------------------------------------|
| Prepared for: | Chunghsin Technology Group CO.,LTD                                  |
|               | No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY,          |
|               | ZHEJIANG, CHINA                                                     |
|               |                                                                     |
| Prepared By:  | EST Technology Co., Ltd.                                            |
|               | Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China |
|               | Tel: 86-769-83081888-808                                            |

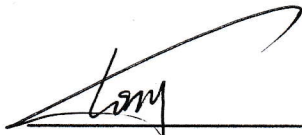
|                 |                             |
|-----------------|-----------------------------|
| Report Number:  | ESTE-R1901072               |
| Date of Test:   | Dec. 26, 2018~Jan. 25, 2019 |
| Date of Report: | Jan. 28, 2019               |

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**EST Technology Co., Ltd.**

|                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                        |                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Applicant:</b>                                                                                                                                                                                 | Chunghsin Technology Group CO.,LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                        |                                                                                                              |
| <b>Address:</b>                                                                                                                                                                                   | No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                        |                                                                                                              |
| <b>Manufacturer:</b>                                                                                                                                                                              | Chunghsin Technology Group CO.,LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                        |                                                                                                              |
| <b>Address:</b>                                                                                                                                                                                   | No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                        |                                                                                                              |
| <b>E.U.T:</b>                                                                                                                                                                                     | 10.1" ANDROID TABLET WITH DETACHABLE KEYBOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                        |                                                                                                              |
| <b>Model Number:</b>                                                                                                                                                                              | ONA19TB007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                        |                                                                                                              |
| <b>Power Supply:</b>                                                                                                                                                                              | DC 5V From Adapter Input AC 100~240V, 50/60Hz, 0.3A<br>DC 3.7V From battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                        |                                                                                                              |
| <b>Test Voltage:</b>                                                                                                                                                                              | DC 5V From Adapter Input AC 120V/60Hz, 0.3A<br>DC 5V From Adapter Input AC 240V/50Hz, 0.3A                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                        |                                                                                                              |
| <b>Trade Name:</b>                                                                                                                                                                                | onn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Serial No.:</b>                                                                                     | -----                                                                                                        |
| <b>Date of Receipt:</b>                                                                                                                                                                           | Dec. 24, 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Date of Test:</b>                                                                                   | Dec. 26, 2018~Jan. 25, 2019                                                                                  |
| <b>Test Specification:</b>                                                                                                                                                                        | FCC Rules and Regulations Part 15 Subpart C:2018<br>ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                        |                                                                                                              |
| <b>Test Result:</b>                                                                                                                                                                               | <p>The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p> |                                                                                                        |                                                                                                              |
| <b>Prepared by:</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Reviewed by:</b>                                                                                    | <b>Approved by:</b>                                                                                          |
| <br>Ring / Assistant                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <br>Tony / Engineer | <br>Iceman Hu / Manager |
| <b>Other Aspects:</b><br>None.                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                        |                                                                                                              |
| Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                        |                                                                                                              |
| This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                        |                                                                                                              |

Date: Jan. 28, 2019



## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

|                     |   |                                               |
|---------------------|---|-----------------------------------------------|
| Product Name        | : | 10.1" ANDROID TABLET WITH DETACHABLE KEYBOARD |
|                     |   |                                               |
| FCC ID              | : | 2AE2WT1016M                                   |
|                     |   |                                               |
| Model Number        | : | ONA19TB007                                    |
|                     |   |                                               |
| Operation frequency | : | 2402MHz~2480MHz                               |
|                     |   |                                               |
| Number of channel   | : | 40                                            |
|                     |   |                                               |
| Antenna             | : | Internal antenna (Antenna Gain: 1.5 dBi)      |
|                     |   |                                               |
| Modulation          | : | BLE: GFSK                                     |
|                     |   |                                               |
| Sample Type         | : | Prototype production                          |

## 2. SUMMARY OF TEST

### 2.1. Summary of test result

| Description of Test Item                      | Standard                                              | Results |
|-----------------------------------------------|-------------------------------------------------------|---------|
| Power Line Conducted Emission                 | FCC Part 15: 15.207<br>ANSI C63.10:2013               | PASS    |
| Radiated Emission                             | FCC Part 15: 15.209<br>ANSI C63.10:2013<br>KDB 558074 | PASS    |
| Band Edge Compliance                          | FCC Part 15: 15.247<br>ANSI C63.10:2013<br>KDB 558074 | PASS    |
| 6dB Bandwidth                                 | FCC Part 15: 15.247<br>ANSI C63.10:2013<br>KDB 558074 | PASS    |
| Peak Output Power                             | FCC Part 15: 15.247<br>ANSI C63.10:2013<br>KDB 558074 | PASS    |
| Power Spectral Density                        | FCC Part 15: 15.247<br>ANSI C63.10:2013<br>KDB 558074 | PASS    |
| Antenna requirement                           | FCC Part 15: 15.203                                   | PASS    |
| Note: KDB 558074 D01 15.247 Meas Guidance v05 |                                                       |         |

## 2.2. Test Facilities

### EMC Lab

: Certificated by CNAS, CHINA  
Registration No.: L5288  
Date of registration: November 13, 2017

Certificated by FCC, USA  
Designation Number: CN1215  
Test Firm Registration Number: 722932  
Date of registration: November 21, 2017

Certificated by A2LA, USA  
Registration No.: 4366.01  
Date of registration: November 07, 2017

Certificated by Industry Canada  
CAB identifier No.: CN0035  
Date of registration: January 04, 2019

Certificated by VCCI, Japan  
Registration No.: R-13663; C-14103  
Date of registration: July 25, 2017  
This Certificate is valid until: July 24, 2020

Certificated by TUV Rheinland, Germany  
Registration No.: UA 50413872 0001  
Date of registration: July 31, 2018

Certificated by TUV/PS, Shenzhen  
Registration No.: SCN1017  
Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO  
Registration No.: 2011-RTL-L2-64  
Date of registration: April 28, 2011

Certificated by Nemko, Hong Kong  
Registration No.: 175193  
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

### 2.3. Measurement uncertainty

| Test Item                                                  | Uncertainty                       |
|------------------------------------------------------------|-----------------------------------|
| Uncertainty for Conduction emission test                   | $\pm 3.48\text{dB}$               |
| Uncertainty for spurious emissions test<br>(30MHz-1GHz)    | $\pm 4.60\text{ dB(Polarize: H)}$ |
|                                                            | $\pm 4.68\text{ dB(Polarize: V)}$ |
| Uncertainty for spurious emissions test<br>(1GHz to 18GHz) | $\pm 4.96\text{dB}$               |
| Uncertainty for radio frequency                            | $7 \times 10^{-8}$                |
| Uncertainty for conducted RF Power                         | 0.20dB                            |
| Uncertainty for Power density test                         | 0.26dB                            |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

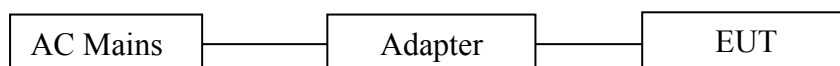
### 2.4. Assistant equipment used for test

#### 2.4.1. Adapter

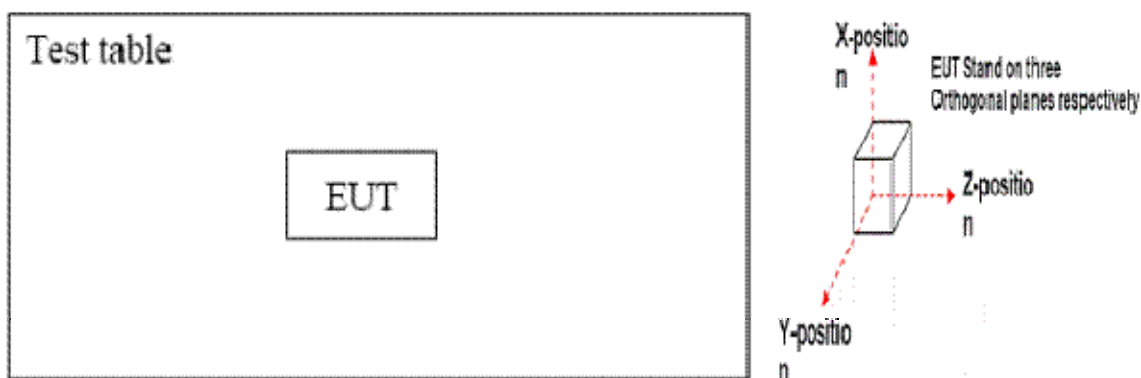
Manufacturer : onn  
 M/N : BSY01J3050200U U  
 Input : AC 100-240V, 50/60Hz, 0.3A  
 Output : DC 5V, 2.0A

### 2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into Bluetooth test mode by software before test.



(EUT: 10.1" ANDROID TABLET WITH DETACHABLE KEYBOARD)



## 2.6. Test mode

A special test software was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

| Mode            | Channel | Frequency |
|-----------------|---------|-----------|
| BT 4.0-BLE GFSK | Low     | 2402MHz   |
|                 | Middle  | 2440MHz   |
|                 | High    | 2480MHz   |

## 2.7. Channel List

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|-------------|-----------------|-------------|-----------------|
| 1           | 2402            | 2           | 2404            |
| 3           | 2406            | 4           | 2408            |
| 5           | 2410            | 6           | 2412            |
| 7           | 2414            | 8           | 2416            |
| 9           | 2418            | 10          | 2420            |
| 11          | 2422            | 12          | 2424            |
| 13          | 2426            | 14          | 2428            |
| 15          | 2430            | 16          | 2432            |
| 17          | 2434            | 18          | 2436            |
| 19          | 2438            | 20          | 2440            |
| 21          | 2442            | 22          | 2444            |
| 23          | 2446            | 24          | 2448            |
| 25          | 2450            | 26          | 2452            |
| 27          | 2454            | 28          | 2456            |
| 29          | 2458            | 30          | 2460            |
| 31          | 2462            | 32          | 2464            |
| 33          | 2466            | 34          | 2468            |
| 35          | 2470            | 36          | 2472            |
| 37          | 2474            | 38          | 2476            |
| 39          | 2478            | 40          | 2480            |

## 2.8. Test Equipment

### 2.8.1. For conducted emission test

| Equipment                | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
|--------------------------|-----------------|--------------|------------|------------------|------------|-----------|
| EMI Test Receiver        | Rohde & Schwarz | ESHS30       | 832354     | CEPREI           | June 15,18 | 1 Year    |
| Artificial Mains Network | Rohde & Schwarz | ENV216       | 101260     | CEPREI           | June 15,18 | 1 Year    |
| Pulse Limiter            | Rohde & Schwarz | ESH3-Z2      | 101100     | CEPREI           | June 15,18 | 1 Year    |
| Test Software            | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |

### 2.8.2. For radiated emission test(9 kHz-30MHz)

| Equipment           | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
|---------------------|-----------------|--------------|------------|------------------|------------|-----------|
| EMI Test Receiver   | Rohde & Schwarz | ESR7         | 101780     | CEPREI           | June 15,18 | 1 Year    |
| Active Loop Antenna | SCHWARZB ECK    | FMZB 1519B   | 1519B-088  | N/A              | Aug. 01,18 | 1 Year    |
| Test Software       | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |

### 2.8.3. For radiated emissions test (30-1000MHz)

| Equipment         | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
|-------------------|-----------------|--------------|------------|------------------|------------|-----------|
| EMI Test Receiver | Rohde & Schwarz | ESR7         | 101780     | CEPREI           | June 15,18 | 1 Year    |
| Bilog Antenna     | Teseq           | CBL 6111D    | 27090      | CEPREI           | June 15,18 | 1 Year    |
| Test Software     | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |

### 2.8.4. For radiated emission test(above 1GHz)

| Equipment                    | Manufacturer    | Model No.    | Serial No.    | Calibration Body | Last Cal.  | Next Cal. |
|------------------------------|-----------------|--------------|---------------|------------------|------------|-----------|
| Horn Antenna                 | SCHWARZB ECK    | BBHA 9120 D  | BBHA9120D1002 | CEPREI           | June 18,18 | 1 Year    |
| Horn Antenna                 | SCHWARZB ECK    | BBHA9170     | BBHA9170242   | CEPREI           | June 18,18 | 1 Year    |
| Signal Amplifier             | SCHWARZB ECK    | BBV9718      | 9718-212      | CEPREI           | June 15,18 | 1 Year    |
| Spectrum Analyzer            | Rohde & Schwarz | FSV          | 103173        | CEPREI           | June 15,18 | 1 Year    |
| PSA Series Spectrum Analyzer | Agilent         | E4447A       | MY50180031    | CEPREI           | June 15,18 | 1 Year    |
| Test Software                | Audix           | e3-6.111221a | N/A           | N/A              | N/A        | N/A       |

## 2.8.5. For connect EUT antenna terminal test

| Equipment         | Manufacturer    | Model No. | Serial No.     | Calibration Body | Last Cal.  | Next Cal. |
|-------------------|-----------------|-----------|----------------|------------------|------------|-----------|
| Spectrum Analyzer | Rohde & Schwarz | FSV       | 103173         | CEPREI           | June 15,18 | 1 Year    |
| Spectrum Analyzer | Agilent         | E4408B    | MY44211<br>139 | CEPREI           | June 15,18 | 1 Year    |

### 3 POWER LINE CONDUCTED EMISSION TEST

#### 3.1 Limit

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

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

#### 3.2 Test Procedure

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 provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

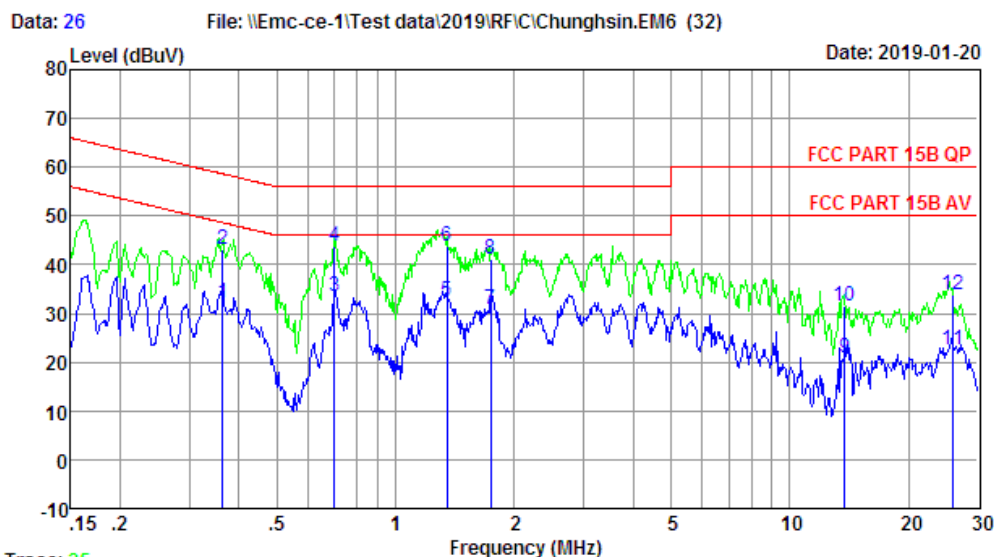
#### 3.3. Test Result

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

## 3.4. Test data

EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878



Site no : 844 Shield Room Data no. : 26  
Env. / Ins. : Temp:23°C Humi:66% Press:101.50kPa LINE Phase : NEUTRAL  
Limit : FCC PART 15B QP  
Engineer : WS  
EUT : 10.1"ANDROID TABLET  
WITH DETACHABLE KEYBOARD  
Power : DC 5V From Adapter Input AC 240V/50Hz  
M/N : ONA19TB007  
Test Mode : TX Mode

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBUV) | Emission<br>Level<br>(dBUV) | Limits<br>(dBUV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.363          | 9.56                   | 0.05                  | 22.68             | 32.29                       | 48.65            | 16.36          | Average |
| 2  | 0.363          | 9.56                   | 0.05                  | 33.50             | 43.11                       | 58.65            | 15.54          | QP      |
| 3  | 0.701          | 9.58                   | 0.05                  | 23.98             | 33.61                       | 46.00            | 12.39          | Average |
| 4  | 0.701          | 9.58                   | 0.05                  | 34.12             | 43.75                       | 56.00            | 12.25          | QP      |
| 5  | 1.352          | 9.58                   | 0.06                  | 22.97             | 32.61                       | 46.00            | 13.39          | Average |
| 6  | 1.352          | 9.58                   | 0.06                  | 34.04             | 43.68                       | 56.00            | 12.32          | QP      |
| 7  | 1.744          | 9.59                   | 0.06                  | 21.06             | 30.71                       | 46.00            | 15.29          | Average |
| 8  | 1.744          | 9.59                   | 0.06                  | 31.37             | 41.02                       | 56.00            | 14.98          | QP      |
| 9  | 13.768         | 9.73                   | 0.08                  | 11.08             | 20.89                       | 50.00            | 29.11          | Average |
| 10 | 13.768         | 9.73                   | 0.08                  | 21.82             | 31.63                       | 60.00            | 28.37          | QP      |
| 11 | 25.864         | 9.72                   | 0.09                  | 12.67             | 22.48                       | 50.00            | 27.52          | Average |
| 12 | 25.864         | 9.72                   | 0.09                  | 24.05             | 33.86                       | 60.00            | 26.14          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

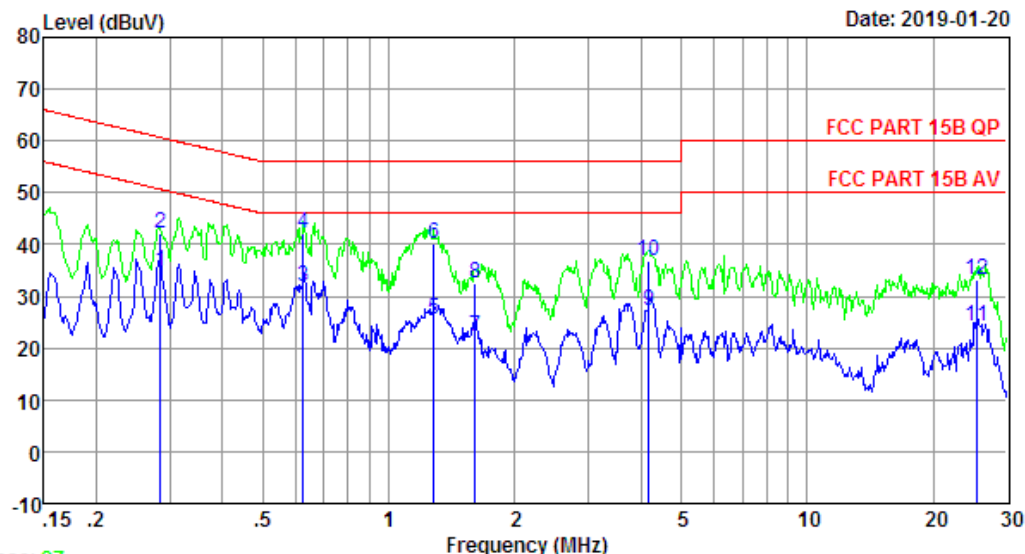
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 28

File: \\Emc-ce-1\Test data\2019\RF\C\Chunghsin.EM6 (32)

Date: 2019-01-20



Trace: 27

Site no : 844 Shield Room Data no. : 28  
 Env. / Ins. : Temp:23°C Humi:66% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : WS  
 EUT : 10.1"ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 240V/50Hz  
 M/N : ONA19TB007  
 Test Mode : TX Mode

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.285          | 9.73                   | 0.04                  | 25.16             | 34.93                       | 50.68            | 15.75          | Average |
| 2  | 0.285          | 9.73                   | 0.04                  | 32.37             | 42.14                       | 60.68            | 18.54          | QP      |
| 3  | 0.624          | 9.76                   | 0.05                  | 22.08             | 31.89                       | 46.00            | 14.11          | Average |
| 4  | 0.624          | 9.76                   | 0.05                  | 32.39             | 42.20                       | 56.00            | 13.80          | QP      |
| 5  | 1.282          | 9.77                   | 0.06                  | 15.62             | 25.45                       | 46.00            | 20.55          | Average |
| 6  | 1.282          | 9.77                   | 0.06                  | 30.44             | 40.27                       | 56.00            | 15.73          | QP      |
| 7  | 1.610          | 9.77                   | 0.06                  | 12.47             | 22.30                       | 46.00            | 23.70          | Average |
| 8  | 1.610          | 9.77                   | 0.06                  | 22.57             | 32.40                       | 56.00            | 23.60          | QP      |
| 9  | 4.180          | 9.82                   | 0.07                  | 17.16             | 27.05                       | 46.00            | 18.95          | Average |
| 10 | 4.180          | 9.82                   | 0.07                  | 27.08             | 36.97                       | 56.00            | 19.03          | QP      |
| 11 | 25.321         | 9.99                   | 0.09                  | 13.97             | 24.05                       | 50.00            | 25.95          | Average |
| 12 | 25.321         | 9.99                   | 0.09                  | 23.16             | 33.24                       | 60.00            | 26.76          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

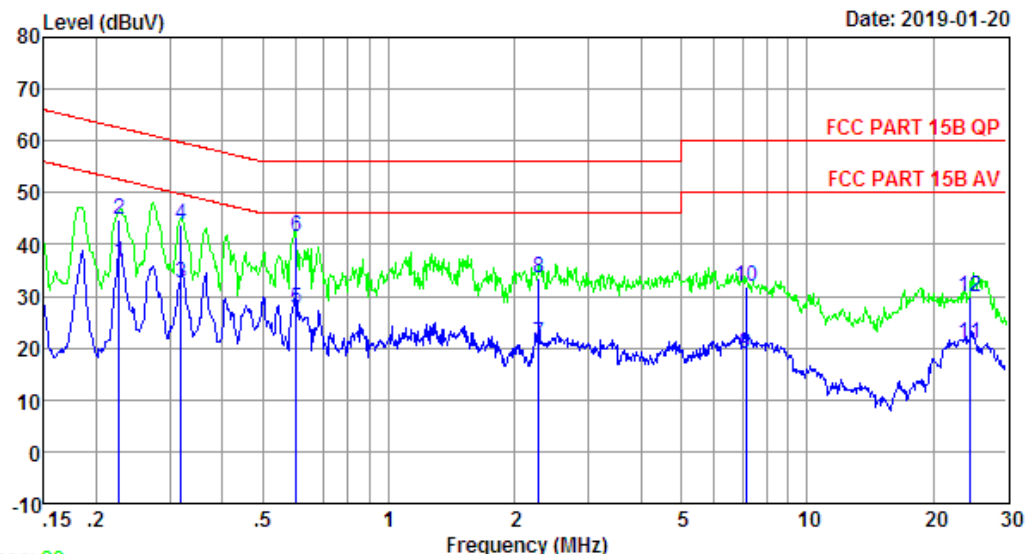
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 30

File: \\Emc-ce-1\Test data\2019\RF\IC\Chunghsin.EM6 (32)

Date: 2019-01-20



Trace: 29

Site no : 844 Shield Room Data no. : 30  
 Env. / Ins. : Temp:23°C Humi:66% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : WS  
 EUT : 10.1"ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : TX Mode

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.227          | 9.72                   | 0.04                  | 26.76             | 36.52                       | 52.57            | 16.05          | Average |
| 2  | 0.227          | 9.72                   | 0.04                  | 35.12             | 44.88                       | 62.57            | 17.69          | QP      |
| 3  | 0.318          | 9.74                   | 0.05                  | 22.69             | 32.48                       | 49.75            | 17.27          | Average |
| 4  | 0.318          | 9.74                   | 0.05                  | 34.09             | 43.88                       | 59.75            | 15.87          | QP      |
| 5  | 0.601          | 9.76                   | 0.05                  | 17.76             | 27.57                       | 46.00            | 18.43          | Average |
| 6  | 0.601          | 9.76                   | 0.05                  | 31.54             | 41.35                       | 56.00            | 14.65          | QP      |
| 7  | 2.285          | 9.79                   | 0.06                  | 11.05             | 20.90                       | 46.00            | 25.10          | Average |
| 8  | 2.285          | 9.79                   | 0.06                  | 23.74             | 33.59                       | 56.00            | 22.41          | QP      |
| 9  | 7.137          | 9.87                   | 0.08                  | 9.07              | 19.02                       | 50.00            | 30.98          | Average |
| 10 | 7.137          | 9.87                   | 0.08                  | 21.79             | 31.74                       | 60.00            | 28.26          | QP      |
| 11 | 24.529         | 9.99                   | 0.09                  | 10.76             | 20.84                       | 50.00            | 29.16          | Average |
| 12 | 24.529         | 9.99                   | 0.09                  | 19.73             | 29.81                       | 60.00            | 30.19          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

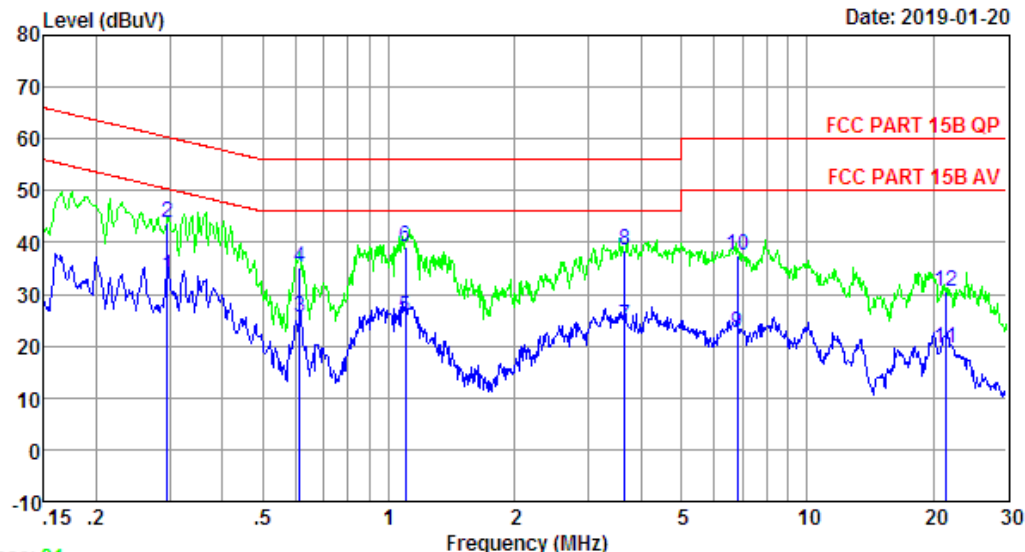
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 32

File: \\Emc-ce-1\Test data\2019\RF\C\Chunghsin.EM6 (32)

Date: 2019-01-20



Trace: 31

Site no : 844 Shield Room Data no. : 32  
 Env. / Ins. : Temp:23°C Humi:66% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : WS  
 EUT : 10.1"ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : TX Mode

|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.296          | 9.55                   | 0.04                  | 23.75             | 33.34                       | 50.37            | 17.03          | Average |
| 2  | 0.296          | 9.55                   | 0.04                  | 34.11             | 43.70                       | 60.37            | 16.67          | QP      |
| 3  | 0.614          | 9.57                   | 0.05                  | 15.93             | 25.55                       | 46.00            | 20.45          | Average |
| 4  | 0.614          | 9.57                   | 0.05                  | 25.70             | 35.32                       | 56.00            | 20.68          | QP      |
| 5  | 1.094          | 9.58                   | 0.06                  | 15.76             | 25.40                       | 46.00            | 20.60          | Average |
| 6  | 1.094          | 9.58                   | 0.06                  | 29.56             | 39.20                       | 56.00            | 16.80          | QP      |
| 7  | 3.661          | 9.64                   | 0.07                  | 14.29             | 24.00                       | 46.00            | 22.00          | Average |
| 8  | 3.661          | 9.64                   | 0.07                  | 28.62             | 38.33                       | 56.00            | 17.67          | QP      |
| 9  | 6.805          | 9.67                   | 0.08                  | 12.75             | 22.50                       | 50.00            | 27.50          | Average |
| 10 | 6.805          | 9.67                   | 0.08                  | 27.77             | 37.52                       | 60.00            | 22.48          | QP      |
| 11 | 21.486         | 9.77                   | 0.09                  | 9.78              | 19.64                       | 50.00            | 30.36          | Average |
| 12 | 21.486         | 9.77                   | 0.09                  | 20.64             | 30.50                       | 60.00            | 29.50          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

## 4 RADIATED EMISSION TEST

### 4.1 Limit

#### 4.1.1 15.209 limits

| Frequency (MHz) | Field Strength( $\mu\text{V/m}$ ) | Distance(m) |
|-----------------|-----------------------------------|-------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300         |
| 0.490-1.705     | 24000/F(kHz)                      | 30          |
| 1.705-30        | 30                                | 30          |
| 30-88           | 100                               | 3           |
| 88-216          | 150                               | 3           |
| 216-960         | 200                               | 3           |
| Above 960       | 500                               | 3           |

- Remark : (1) Emission level  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$   
 (2) The smaller limit shall apply at the cross point between two frequency bands.  
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

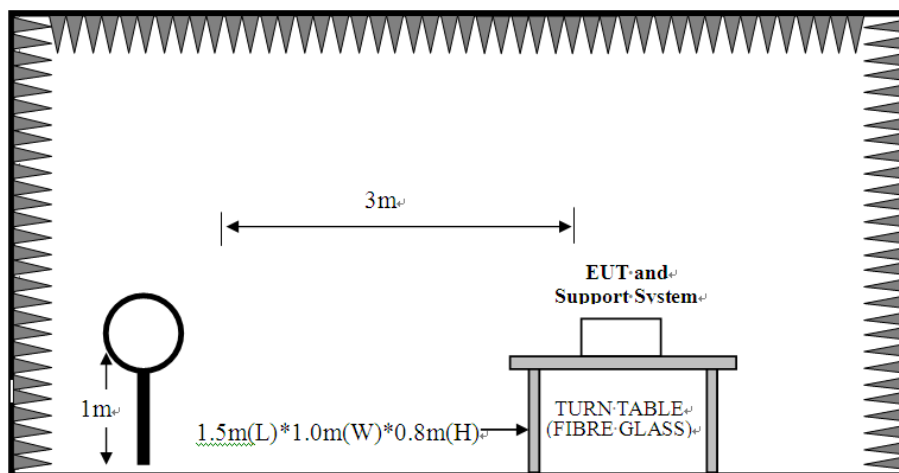
#### 4.1.2 15.205 Restricted bands of operation

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

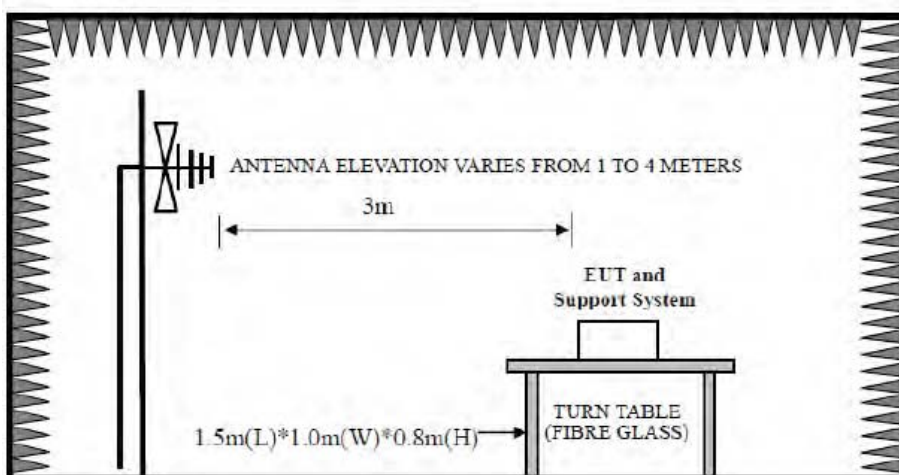
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

## 4.2. Block Diagram of Test setup

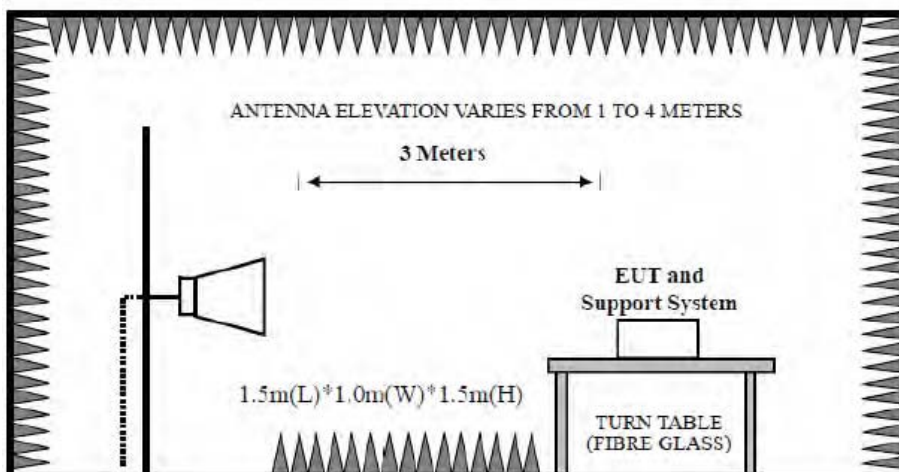
9kHz~30MHz



30~1000MHz



Above 1GHz



### 4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

### 4.4. Test Result

#### **PASS.**

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

- 2、 The frequency 2402MHz 、 2440MHz and 2480 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

#### 4.5. Test Data

9 kHz – 30 MHz

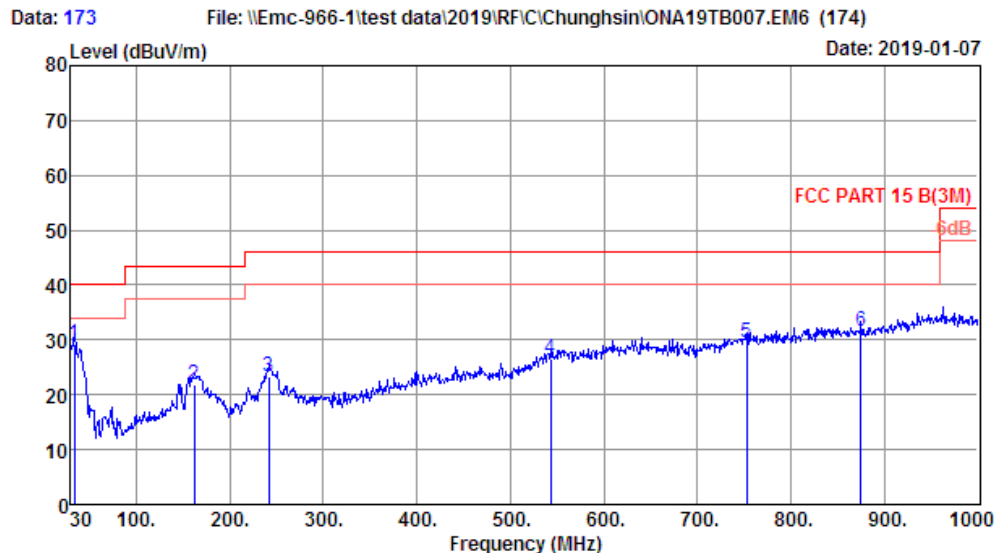
Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

30-1000 MHz

EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878



Site no. : 1# 966 Chamber Data no. : 173  
 Dis. / Ant. : 3m 27090 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:21.6';Humi:50.4%;Press:101.52kPa  
 Engineer : Frank  
 EUT : 10.1"ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : TX Mode

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 33.88          | 16.92                   | 0.22                  | 12.13             | 29.27                         | 40.00             | 10.73          | QP     |
| 2 | 161.92         | 10.16                   | 1.05                  | 10.78             | 21.99                         | 43.50             | 21.51          | QP     |
| 3 | 241.46         | 11.06                   | 1.37                  | 10.94             | 23.37                         | 46.00             | 22.63          | QP     |
| 4 | 543.13         | 20.45                   | 2.41                  | 3.57              | 26.43                         | 46.00             | 19.57          | QP     |
| 5 | 752.65         | 22.81                   | 3.05                  | 3.55              | 29.41                         | 46.00             | 16.59          | QP     |
| 6 | 874.87         | 23.95                   | 3.26                  | 4.23              | 31.44                         | 46.00             | 14.56          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

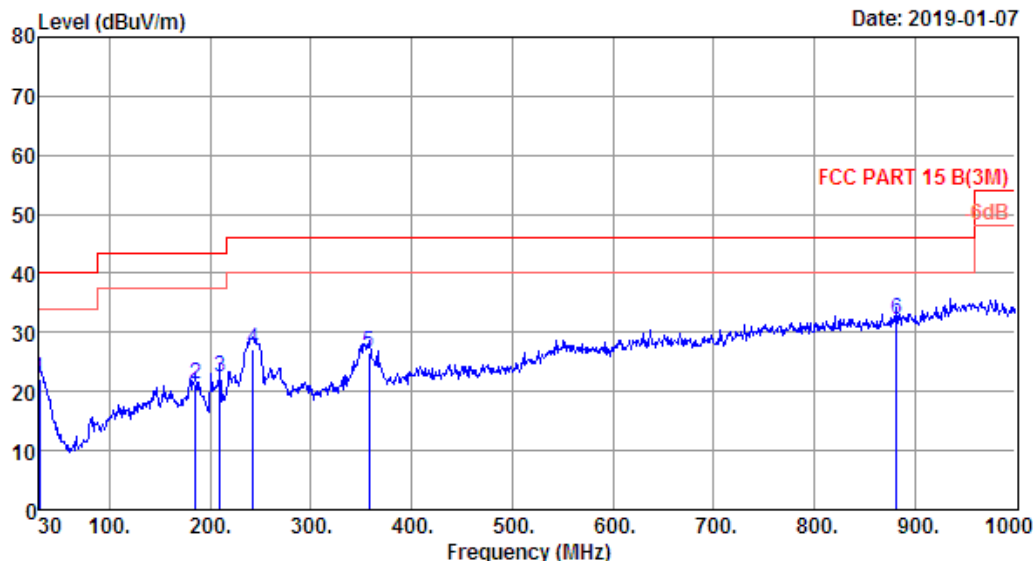
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 174

File: \\Emc-966-1\\test data\\2019\\RF\\C\\Chunghsin\\ONA19TB007.EM6 (174)

Date: 2019-01-07



Site no. : 1# 966 Chamber Data no. : 174  
 Dis. / Ant. : 3m 27090 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:21.6'; Humi:50.4%; Press:101.52kPa  
 Engineer : Frank  
 EUT : 10.1" ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : TX Mode

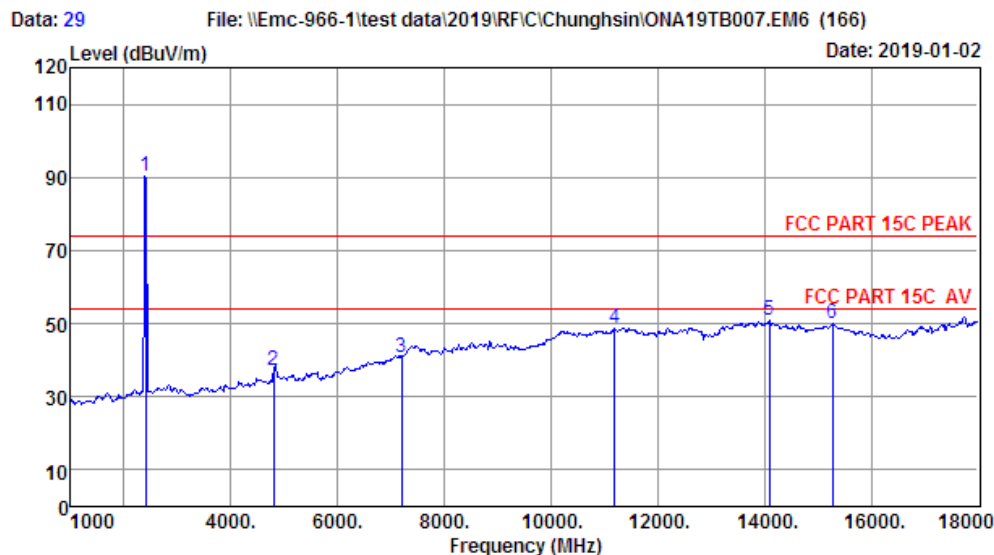
|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 30.00          | 19.00                   | 0.19                  | 2.99              | 22.18                         | 40.00             | 17.82          | QP     |
| 2 | 185.20         | 8.75                    | 1.12                  | 11.29             | 21.16                         | 43.50             | 22.34          | QP     |
| 3 | 209.45         | 8.54                    | 1.21                  | 12.62             | 22.37                         | 43.50             | 21.13          | QP     |
| 4 | 242.43         | 11.25                   | 1.39                  | 14.59             | 27.23                         | 46.00             | 18.77          | QP     |
| 5 | 357.86         | 14.95                   | 1.86                  | 9.83              | 26.64                         | 46.00             | 19.36          | QP     |
| 6 | 881.66         | 23.99                   | 3.29                  | 5.01              | 32.29                         | 46.00             | 13.71          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

1000-18000MHz

EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878



Site no. : 1# 966 Chamber Data no. : 29  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa  
 Engineer : Seven  
 EUT : 10.1" ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : GFSK TX 2402MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2402.00        | 27.35                    | 3.21                  | 34.94                 | 94.87             | 90.49                         | 74.00              | -16.49         | Peak   |
| 2 | 4804.00        | 32.06                    | 4.67                  | 35.06                 | 35.68             | 37.35                         | 74.00              | 36.65          | Peak   |
| 3 | 7206.00        | 36.56                    | 5.99                  | 33.45                 | 31.72             | 40.82                         | 74.00              | 33.18          | Peak   |
| 4 | 11200.00       | 39.98                    | 8.43                  | 33.10                 | 33.20             | 48.51                         | 74.00              | 25.49          | Peak   |
| 5 | 14090.00       | 41.61                    | 10.14                 | 32.99                 | 31.99             | 50.75                         | 74.00              | 23.25          | Peak   |
| 6 | 15280.00       | 39.86                    | 10.97                 | 32.84                 | 31.86             | 49.85                         | 74.00              | 24.15          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

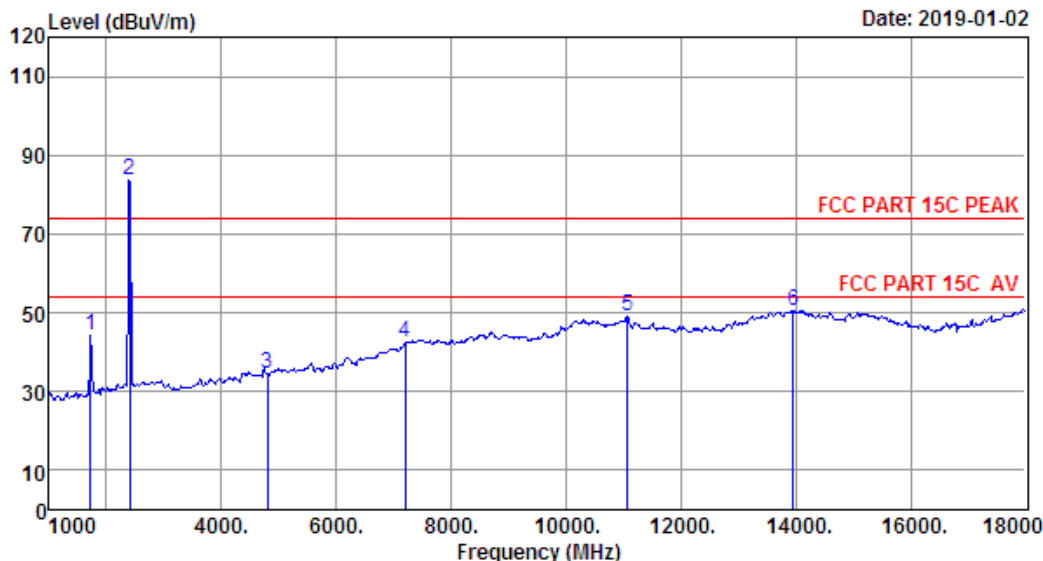
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 30

File: \\Emc-966-1\\test data\\2019\\RF\\C\\Chunghsin\\ONA19TB007.EM6 (166)

Date: 2019-01-02



Site no. : 1# 966 Chamber Data no. : 30  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa  
 Engineer : Seven  
 EUT : 10.1" ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : GFSK TX 2402MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1714.00        | 25.95                    | 2.72                  | 34.81                 | 50.42             | 44.28                         | 74.00              | 29.72          | Peak   |
| 2 | 2402.00        | 27.35                    | 3.21                  | 34.94                 | 88.18             | 83.80                         | 74.00              | -9.80          | Peak   |
| 3 | 4804.00        | 32.06                    | 4.67                  | 35.06                 | 32.70             | 34.37                         | 74.00              | 39.63          | Peak   |
| 4 | 7206.00        | 36.56                    | 5.99                  | 33.45                 | 33.39             | 42.49                         | 74.00              | 31.51          | Peak   |
| 5 | 11064.00       | 39.93                    | 8.52                  | 33.32                 | 33.82             | 48.95                         | 74.00              | 25.05          | Peak   |
| 6 | 13954.00       | 41.66                    | 10.12                 | 32.84                 | 31.48             | 50.42                         | 74.00              | 23.58          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

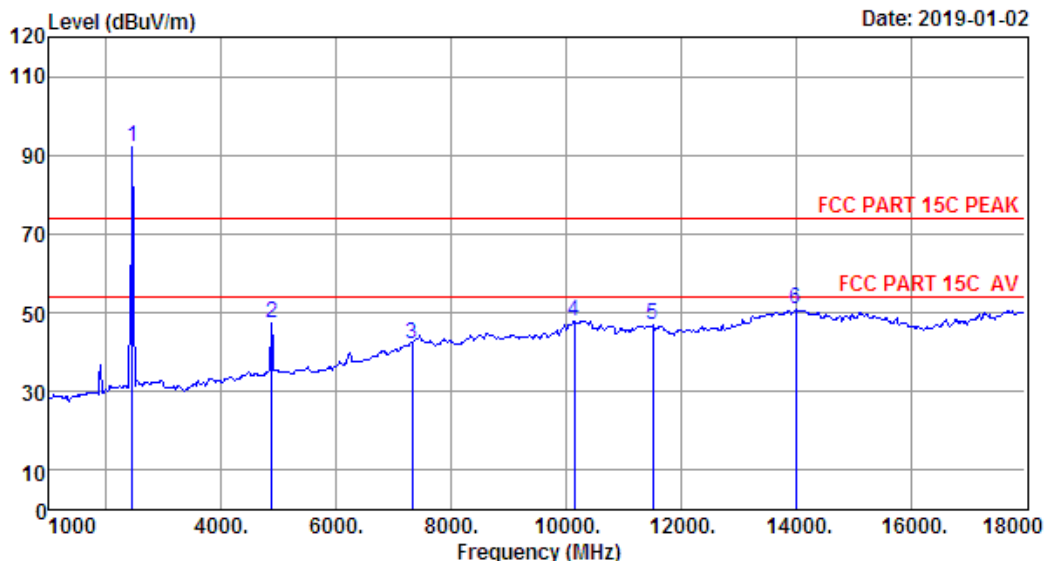
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 31

File: \\Emc-966-1\test data\2019\RF\IC\Chunghsin\ONA19TB007.EM6 (166)

Date: 2019-01-02



Site no. : 1# 966 Chamber Data no. : 31  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa  
 Engineer : Seven  
 EUT : 10.1" ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : GFSK TX 2441MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00        | 27.48                    | 3.26                  | 35.07                 | 96.65             | 92.32                         | 74.00              | -18.32         | Peak   |
| 2 | 4882.00        | 32.18                    | 4.73                  | 35.14                 | 45.57             | 47.34                         | 74.00              | 26.66          | Peak   |
| 3 | 7323.00        | 36.82                    | 6.10                  | 33.28                 | 32.54             | 42.18                         | 74.00              | 31.82          | Peak   |
| 4 | 10146.00       | 39.16                    | 9.48                  | 34.51                 | 33.84             | 47.97                         | 74.00              | 26.03          | Peak   |
| 5 | 11506.00       | 40.10                    | 8.28                  | 32.55                 | 31.00             | 46.83                         | 74.00              | 27.17          | Peak   |
| 6 | 14005.00       | 41.70                    | 10.13                 | 32.88                 | 31.77             | 50.72                         | 74.00              | 23.28          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

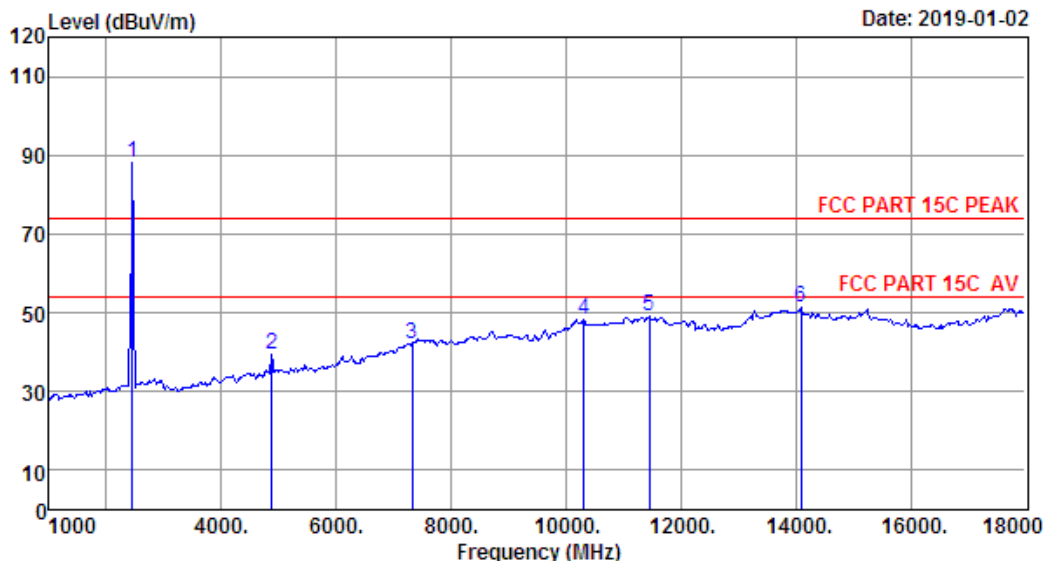
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 32

File: \\Emc-966-1\\test data\\2019\\RF\\C\\Chunghsin\\ONA19TB007.EM6 (166)

Date: 2019-01-02



Site no. : 1# 966 Chamber Data no. : 32  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa  
 Engineer : Seven  
 EUT : 10.1" ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : GFSK TX 2441MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00        | 27.48                    | 3.26                  | 35.07                 | 92.33             | 88.00                         | 74.00              | -14.00         | Peak   |
| 2 | 4882.00        | 32.18                    | 4.73                  | 35.14                 | 37.44             | 39.21                         | 74.00              | 34.79          | Peak   |
| 3 | 7323.00        | 36.82                    | 6.10                  | 33.28                 | 32.64             | 42.28                         | 74.00              | 31.72          | Peak   |
| 4 | 10316.00       | 39.23                    | 10.20                 | 34.34                 | 33.20             | 48.29                         | 74.00              | 25.71          | Peak   |
| 5 | 11455.00       | 40.08                    | 8.28                  | 32.62                 | 33.29             | 49.03                         | 74.00              | 24.97          | Peak   |
| 6 | 14090.00       | 41.61                    | 10.14                 | 32.99                 | 32.55             | 51.31                         | 74.00              | 22.69          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

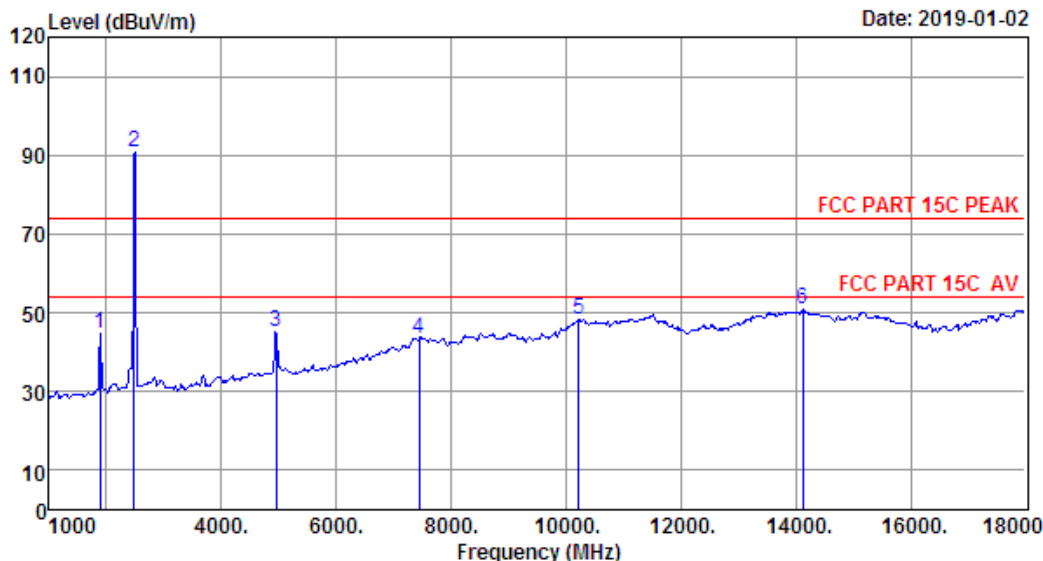
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 33

File: \\Emc-966-1\\test data\\2019\\RF\\C\\Chunghsin\\ONA19TB007.EM6 (166)

Date: 2019-01-02



Site no. : 1# 966 Chamber Data no. : 33  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa  
 Engineer : Seven  
 EUT : 10.1" ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : GFSK TX 2480MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 1884.00        | 26.21                    | 2.82                  | 34.83                 | 50.47             | 44.67                         | 74.00              | 29.33          | Peak   |
| 2 | 2480.00        | 27.56                    | 3.29                  | 35.21                 | 95.06             | 90.70                         | 74.00              | -16.70         | Peak   |
| 3 | 4960.00        | 32.34                    | 4.80                  | 35.24                 | 43.28             | 45.18                         | 74.00              | 28.82          | Peak   |
| 4 | 7440.00        | 37.09                    | 6.13                  | 33.08                 | 33.27             | 43.41                         | 74.00              | 30.59          | Peak   |
| 5 | 10214.00       | 39.19                    | 9.77                  | 34.43                 | 33.77             | 48.30                         | 74.00              | 25.70          | Peak   |
| 6 | 14124.00       | 41.58                    | 10.14                 | 33.04                 | 32.12             | 50.80                         | 74.00              | 23.20          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

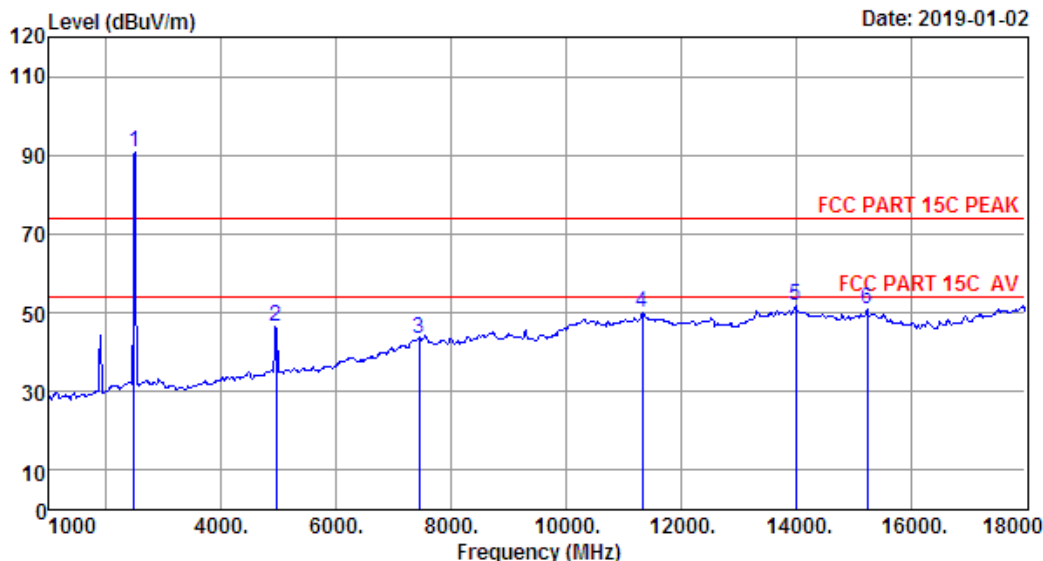
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 34

File: \\Emc-966-1\\test data\\2019\\RF\\C\\Chunghsin\\ONA19TB007.EM6 (166)

Date: 2019-01-02



Site no. : 1# 966 Chamber Data no. : 34  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa  
 Engineer : Seven  
 EUT : 10.1" ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : GFSK TX 2480MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00        | 27.56                    | 3.29                  | 35.21                 | 95.30             | 90.94                         | 74.00              | -16.94         | Peak   |
| 2 | 4960.00        | 32.34                    | 4.80                  | 35.24                 | 44.67             | 46.57                         | 74.00              | 27.43          | Peak   |
| 3 | 7440.00        | 37.09                    | 6.13                  | 33.08                 | 33.36             | 43.50                         | 74.00              | 30.50          | Peak   |
| 4 | 11336.00       | 40.03                    | 8.32                  | 32.84                 | 34.69             | 50.20                         | 74.00              | 23.80          | Peak   |
| 5 | 14005.00       | 41.70                    | 10.13                 | 32.88                 | 32.74             | 51.69                         | 74.00              | 22.31          | Peak   |
| 6 | 15246.00       | 39.91                    | 10.99                 | 32.91                 | 32.83             | 50.82                         | 74.00              | 23.18          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

**18000MHz – 25000MHz**

Pass

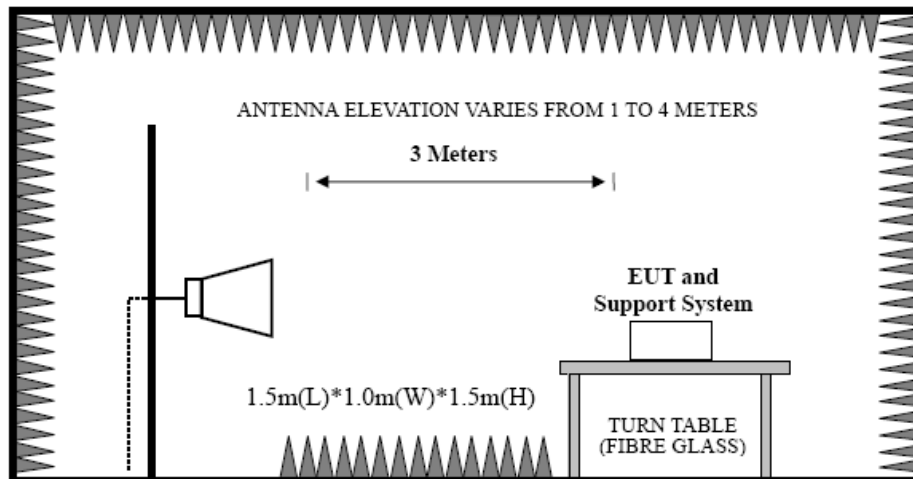
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

## 5 BAND EDGE COMPLIANCE TEST

### 5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

### 5.2 Block Diagram of Test setup



### 5.3 Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was 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 emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto.

AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

### 5.4 Test Result

Pass (The testing data was attached in the next pages.)

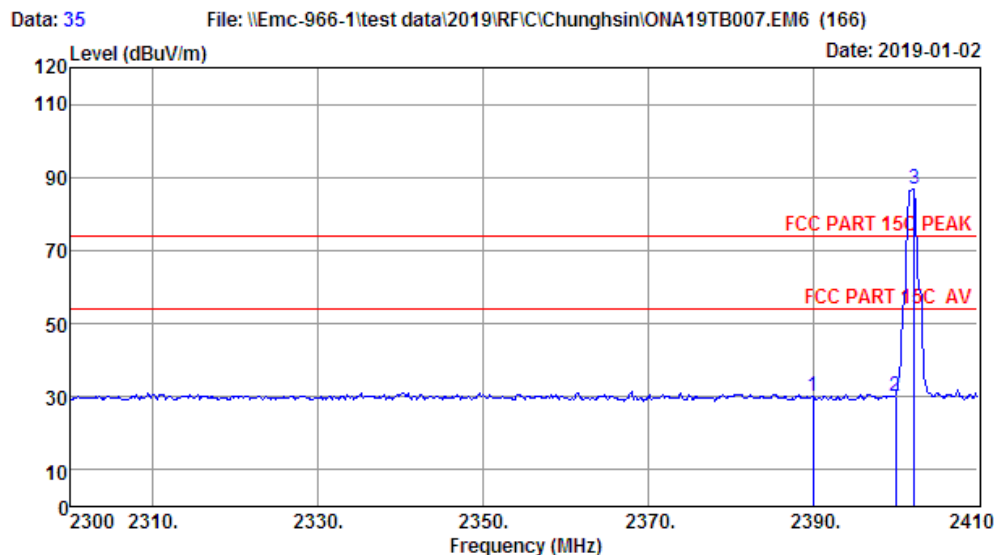
Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

- 2、 The frequency 2402MHz and 2480 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

## 5.5 Test Data

EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878



Site no. : 1# 966 Chamber Data no. : 35  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : 10.1"ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : GFSK TX 2402MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2390.00        | 27.35                    | 3.21                  | 34.87                 | 34.30             | 29.99                         | 74.00              | 44.01          | Peak   |
| 2 | 2400.00        | 27.35                    | 3.21                  | 34.94                 | 34.67             | 30.29                         | 74.00              | 43.71          | Peak   |
| 3 | 2402.30        | 27.35                    | 3.21                  | 34.94                 | 91.28             | 86.90                         | 74.00              | -12.90         | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

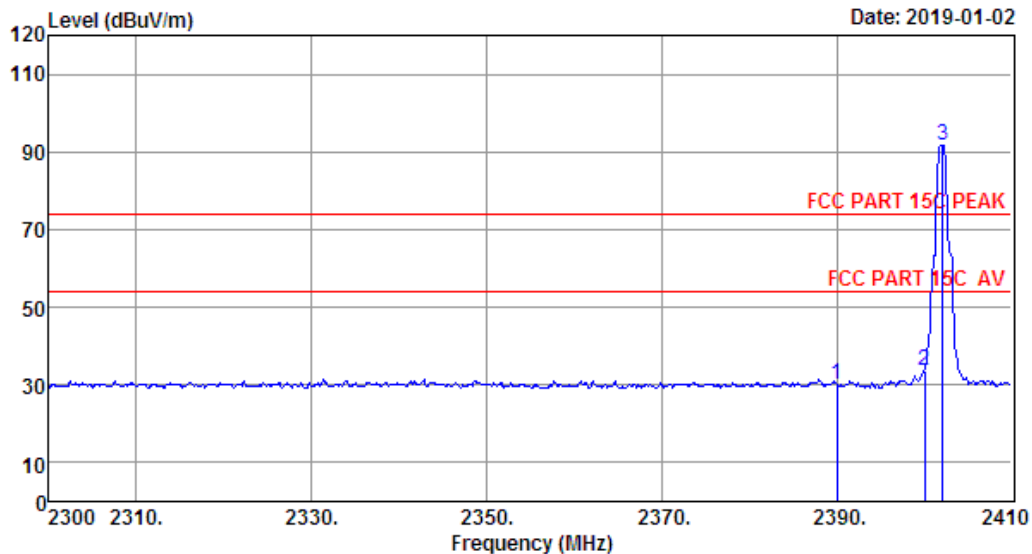
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 36

File: \\Emc-966-1\test data\2019\RFIC\Chunghsin\ONA19TB007.EM6 (166)

Date: 2019-01-02



Site no. : 1# 966 Chamber Data no. : 36  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa  
 Engineer : Seven  
 EUT : 10.1" ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : GFSK TX 2402MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2390.00        | 27.35                    | 3.21                  | 34.87                 | 34.63             | 30.32                         | 74.00              | 43.68          | Peak   |
| 2 | 2400.00        | 27.35                    | 3.21                  | 34.94                 | 37.95             | 33.57                         | 74.00              | 40.43          | Peak   |
| 3 | 2402.08        | 27.35                    | 3.21                  | 34.94                 | 96.22             | 91.84                         | 74.00              | -17.84         | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

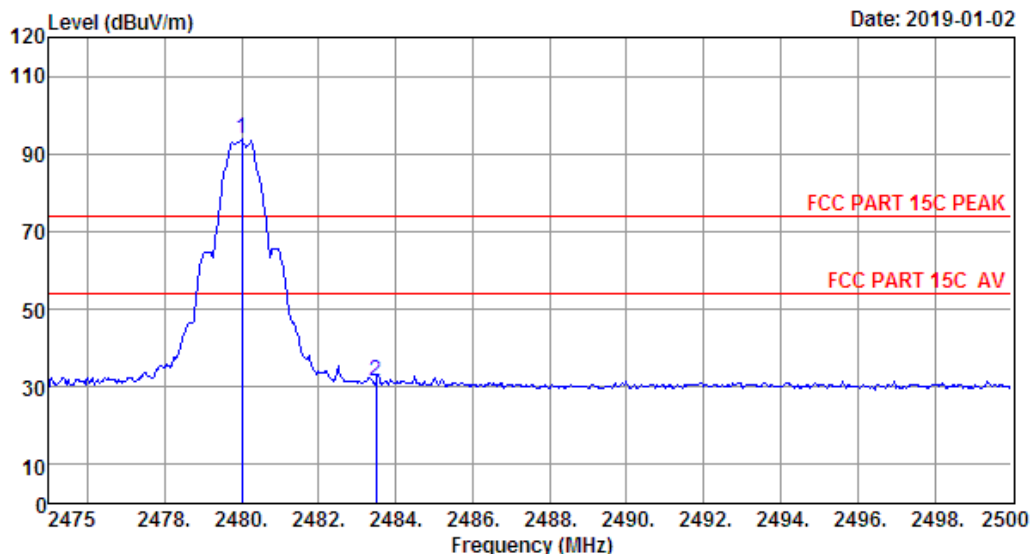
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 37

File: \\Emc-966-1\test data\2019\RFIC\Chunghsin\ONA19TB007.EM6 (166)

Date: 2019-01-02



Site no. : 1# 966 Chamber Data no. : 37  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa  
 Engineer : Seven  
 EUT : 10.1"ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : GFSK TX 2480MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00        | 27.56                    | 3.29                  | 35.21                 | 98.02             | 93.66                         | 74.00              | -19.66         | Peak   |
| 2 | 2483.50        | 27.56                    | 3.29                  | 35.21                 | 35.93             | 31.57                         | 74.00              | 42.43          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

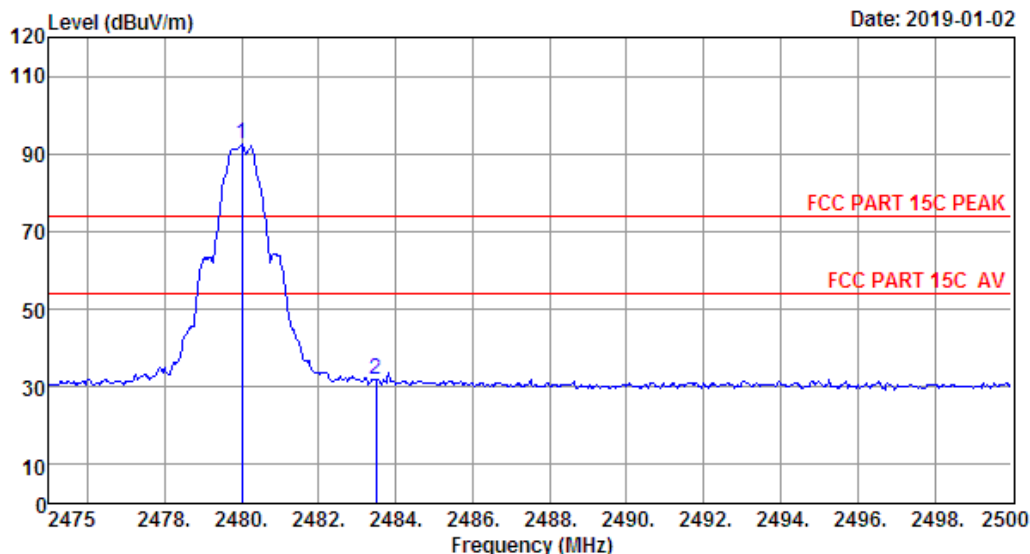
## EST Technology

Chilingxiang, Qishantou, Santun,  
Houjie, Dongguan, Guangdong, China  
Tel: +86-769-83081888  
Fax: +86-769-83081878

Data: 38

File: \\Emc-966-1\test data\2019\RFIC\Chunghsin\ONA19TB007.EM6 (166)

Date: 2019-01-02



Site no. : 1# 966 Chamber Data no. : 38  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa  
 Engineer : Seven  
 EUT : 10.1" ANDROID TABLET  
 WITH DETACHABLE KEYBOARD  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : ONA19TB007  
 Test Mode : GFSK TX 2480MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00        | 27.56                    | 3.29                  | 35.21                 | 96.83             | 92.47                         | 74.00              | -18.47         | Peak   |
| 2 | 2483.50        | 27.56                    | 3.29                  | 35.21                 | 36.08             | 31.72                         | 74.00              | 42.28          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

## 6 6dB Bandwidth Test

### 6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

### 6.2 Test Procedure

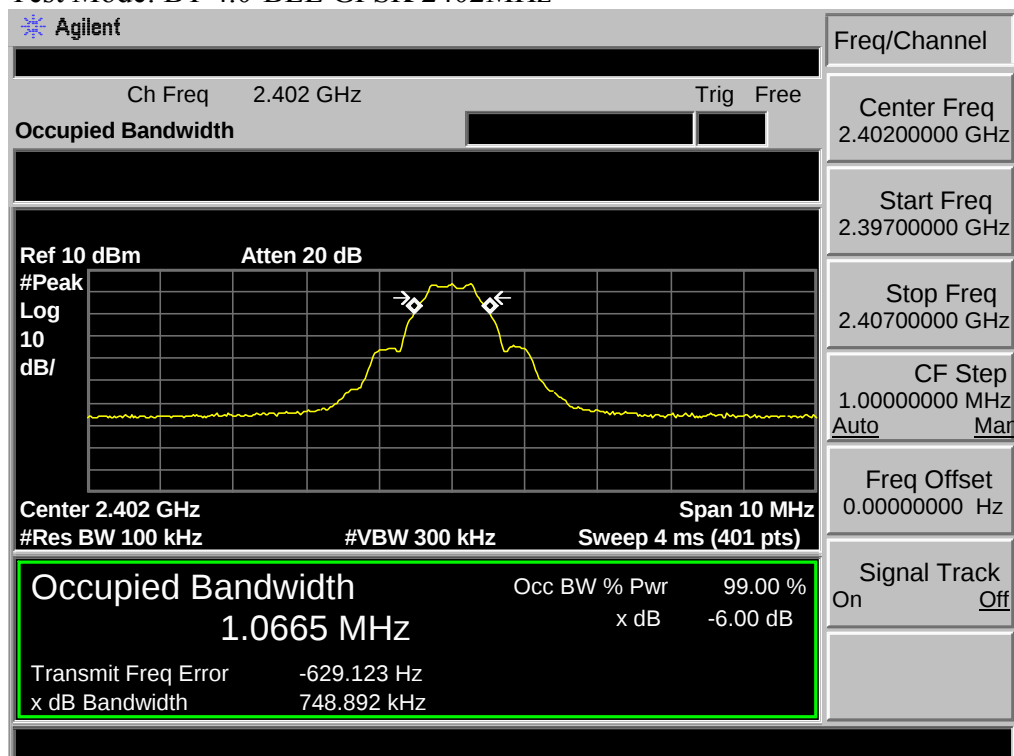
- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set resolution bandwidth (RBW) = 100 kHz.
  - (2). Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
  - (3). Detector = Peak.
  - (4). Trace mode = max hold.
  - (5). Sweep = auto couple.
  - (6). Allow the trace to stabilize.
  - (7). Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 6.3 Test Result

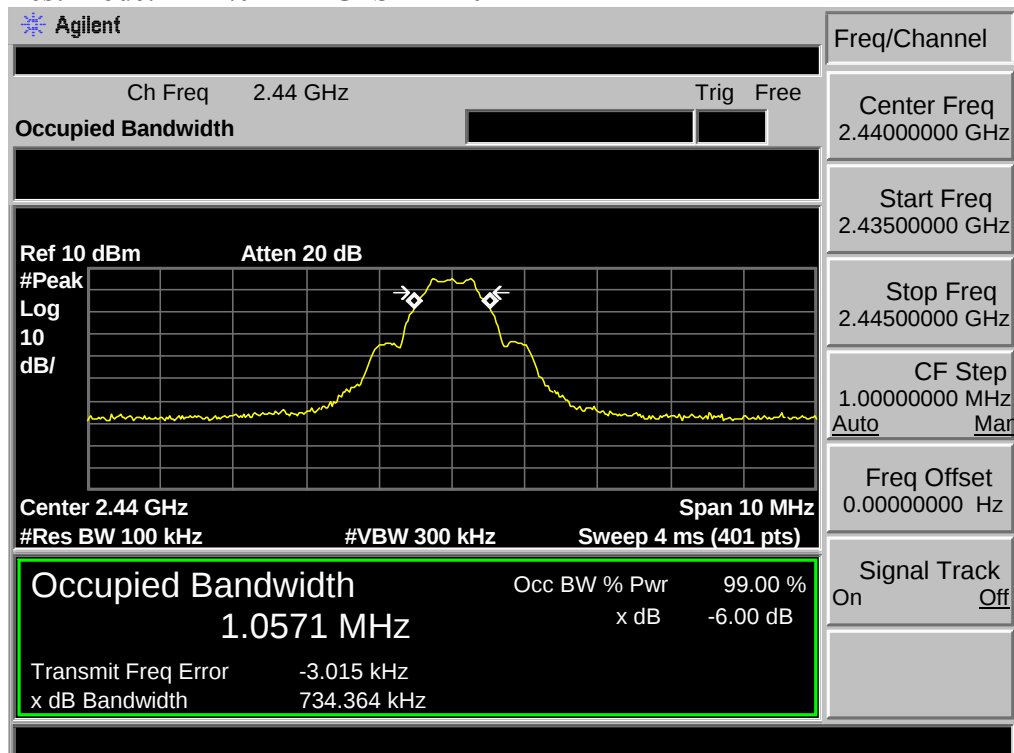
|                                                    |      |                          |                  |
|----------------------------------------------------|------|--------------------------|------------------|
| EUT: 10.1" ANDROID TABLET WITH DETACHABLE KEYBOARD |      |                          |                  |
| M/N: ONA19TB007                                    |      |                          |                  |
| Test date: 2018-12-27                              |      | Test site: RF Site       | Tested by: Seven |
| Test Mode                                          | CH   | 6dB bandwidth<br>( MHz ) | Limit<br>(KHz)   |
| BT 4.0-BLE<br>GFSK                                 | CH1  | 0.748892                 | >500             |
|                                                    | CH20 | 0.734364                 | >500             |
|                                                    | CH40 | 0.731763                 | >500             |
| Conclusion : PASS                                  |      |                          |                  |

## 6.4 Test Data

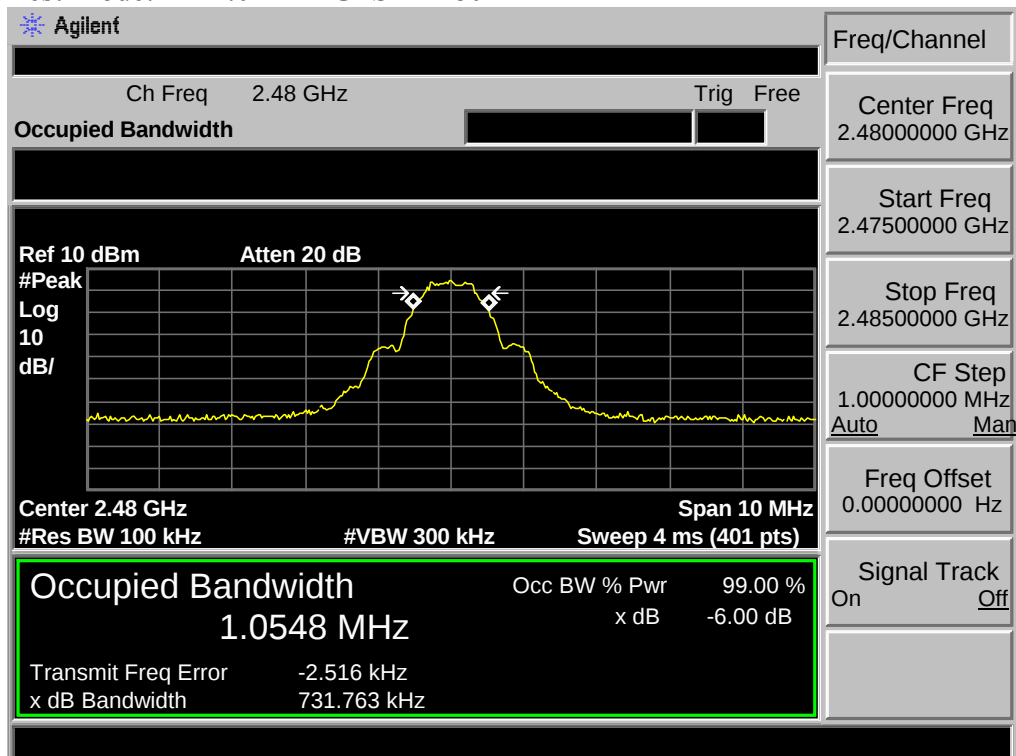
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



Test Mode: BT 4.0-BLE GFSK 2480MHz



## 7 OUTPUT POWER TEST

### 7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

### 7.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set the RBW  $\geq$  DTS bandwidth.
  - (2). Set VBW  $\geq$  3 x RBW.
  - (3). Set span  $\geq$  3 x RBW.
  - (4). Sweep time = auto couple.
  - (5). Detector = peak.
  - (6). Trace mode = max hold.
  - (7). Allow trace to fully stabilize.
  - (8). Use peak marker function to determine the peak amplitude level.

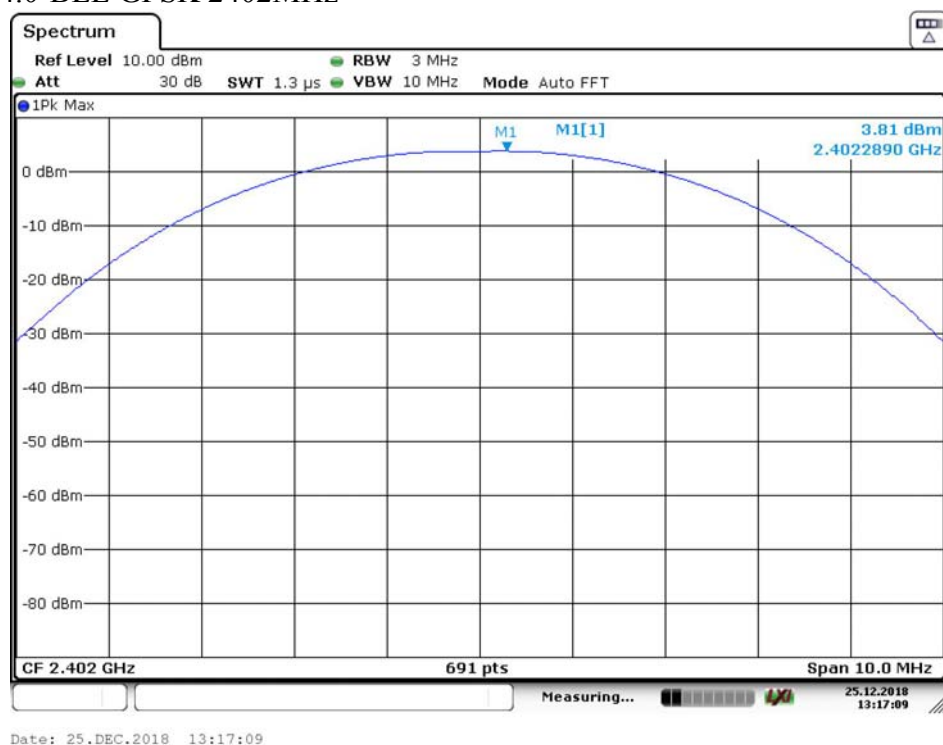
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

## 7.3 Test Result

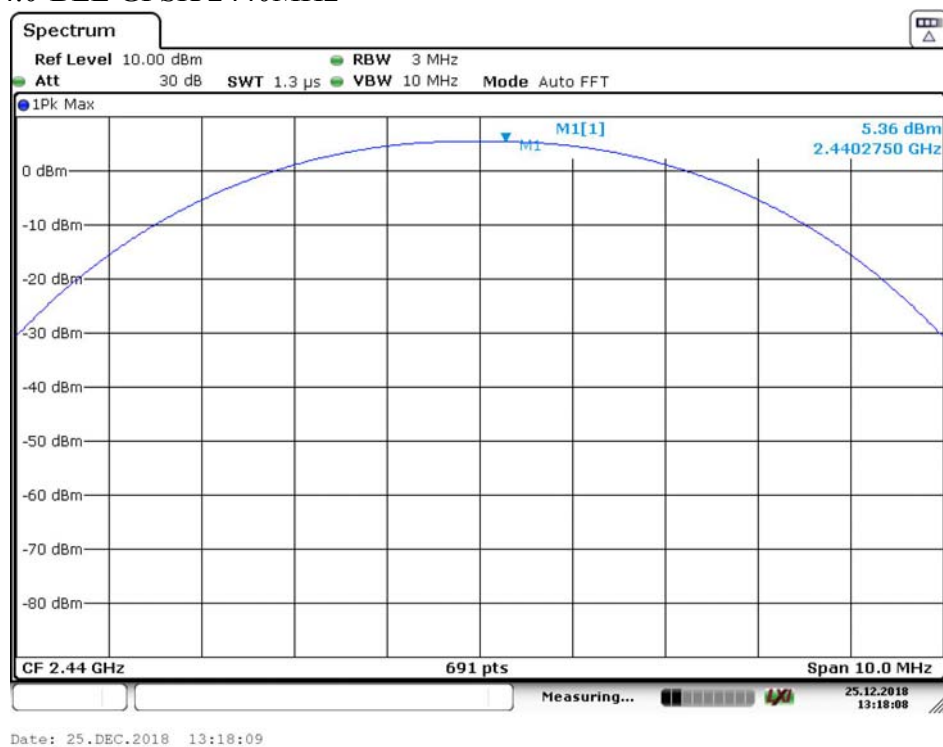
| EUT: 10.1" ANDROID TABLET WITH DETACHABLE KEYBOARD |      |                              |                  |
|----------------------------------------------------|------|------------------------------|------------------|
| M/N: ONA19TB007                                    |      |                              |                  |
| Test date: 2018-12-27                              |      | Test site: RF Site           | Tested by: Seven |
| Pass                                               |      |                              |                  |
| Test Mode                                          | CH   | Peak output Power<br>( dBm ) | Limit<br>(dBm)   |
| BT 4.0-BLE<br>GFSK                                 | CH1  | 3.81                         | 30               |
|                                                    | CH20 | 5.36                         | 30               |
|                                                    | CH40 | 4.69                         | 30               |
| Conclusion : PASS                                  |      |                              |                  |

## 7.4 Test Data

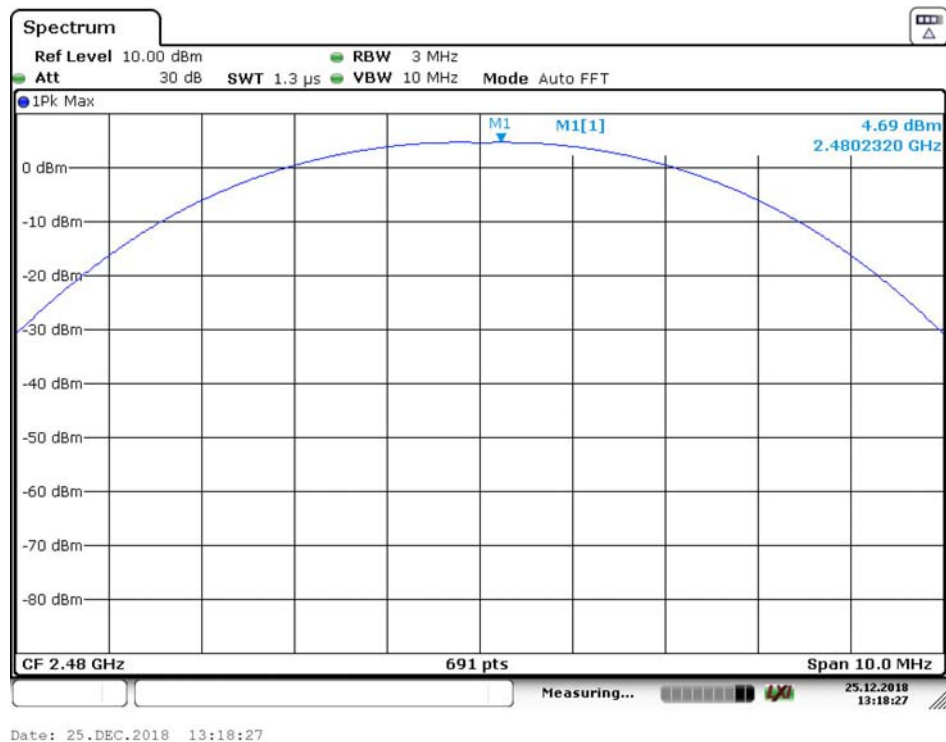
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



Test Mode: BT 4.0-BLE GFSK 2480MHz



## 8 POWER SPECTRAL DENSITY TEST

### 8.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 8.2 Test Procedure

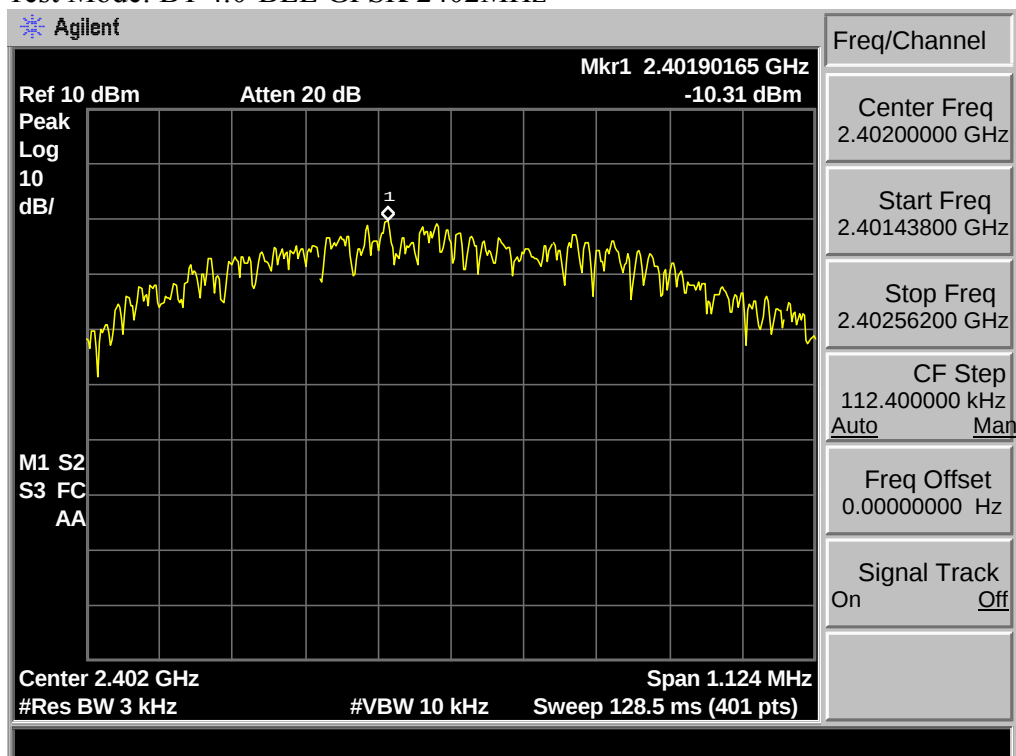
- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set analyzer center frequency to DTS channel center frequency.
  - (2). Set the span to 1.5 times the DTS bandwidth.
  - (3). Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
  - (4). Set the VBW  $\geq 3 \text{ RBW}$ .
  - (5). Detector = peak.
  - (6). Sweep time = auto couple.
  - (7). Trace mode = max hold.
  - (8). Allow trace to fully stabilize.
  - (9). Use the peak marker function to determine the maximum amplitude level.
  - (10). If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 8.3 Test Result

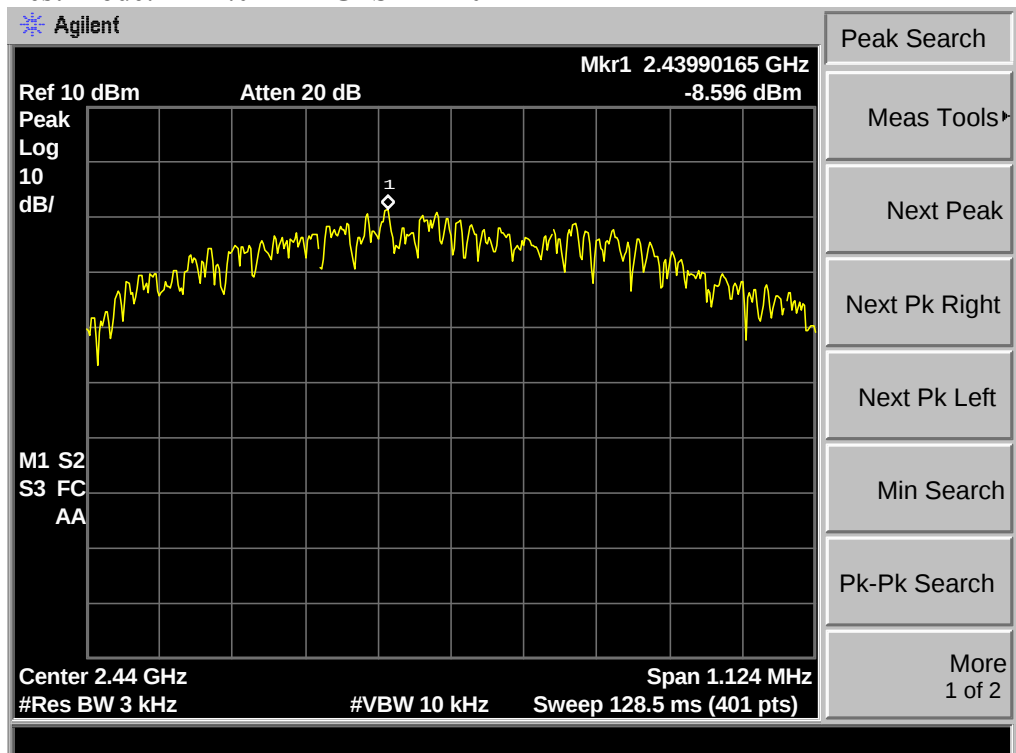
| EUT: 10.1" ANDROID TABLET WITH DETACHABLE KEYBOARD |      |                             |                     |
|----------------------------------------------------|------|-----------------------------|---------------------|
| M/N: ONA19TB007                                    |      |                             |                     |
| Test date: 2018-12-27                              |      | Test site: RF Site          | Tested by: Seven    |
| Pass                                               |      |                             |                     |
| Test Mode                                          | CH   | Power density<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) |
| BT 4.0-BLE<br>GFSK                                 | CH1  | -10.31                      | 8                   |
|                                                    | CH20 | -8.60                       | 8                   |
|                                                    | CH40 | -9.31                       | 8                   |
| Conclusion : PASS                                  |      |                             |                     |

## 8.4 Test Data

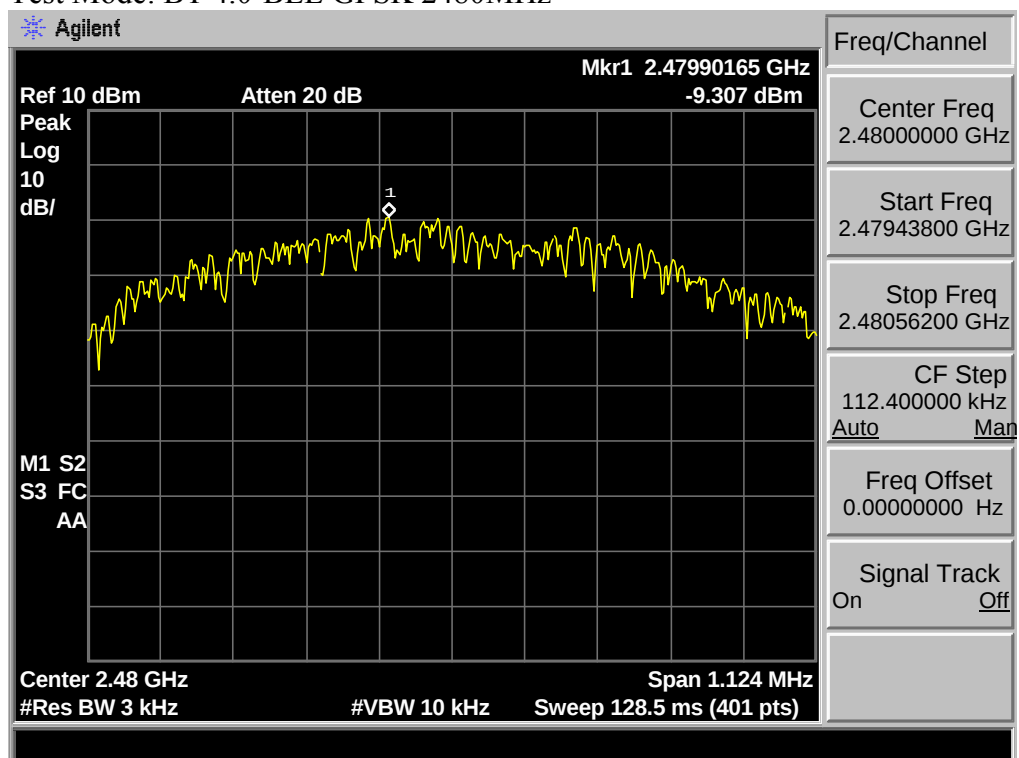
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



Test Mode: BT 4.0-BLE GFSK 2480MHz



## 9 ANTENNA REQUIREMENTS

### 9.1 Limit

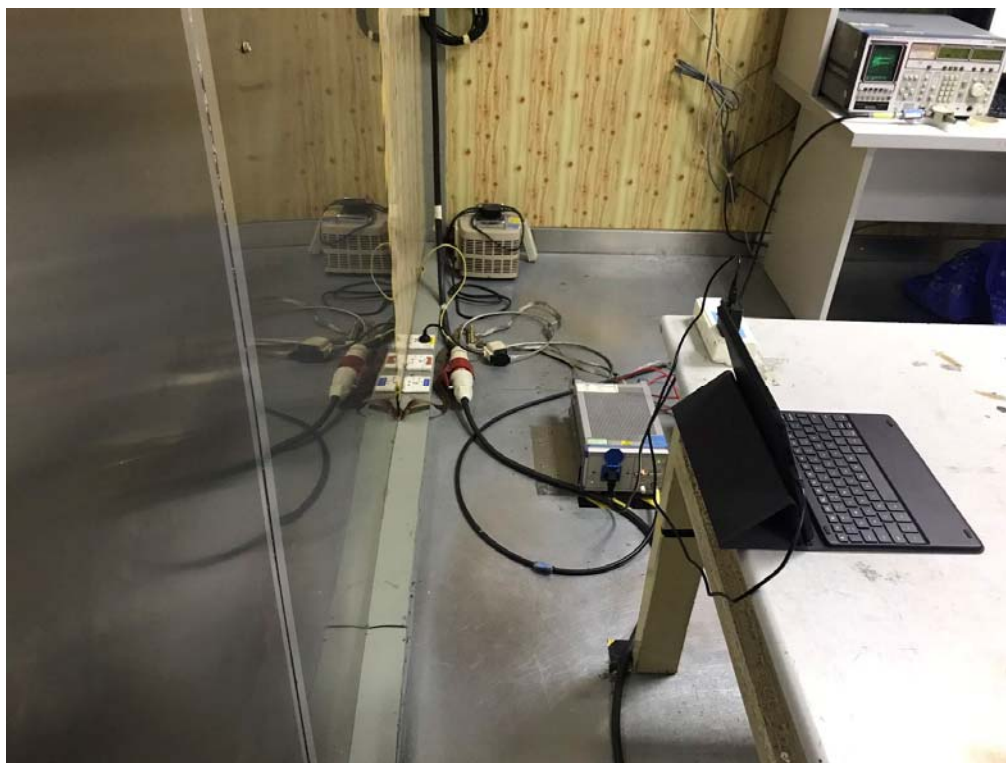
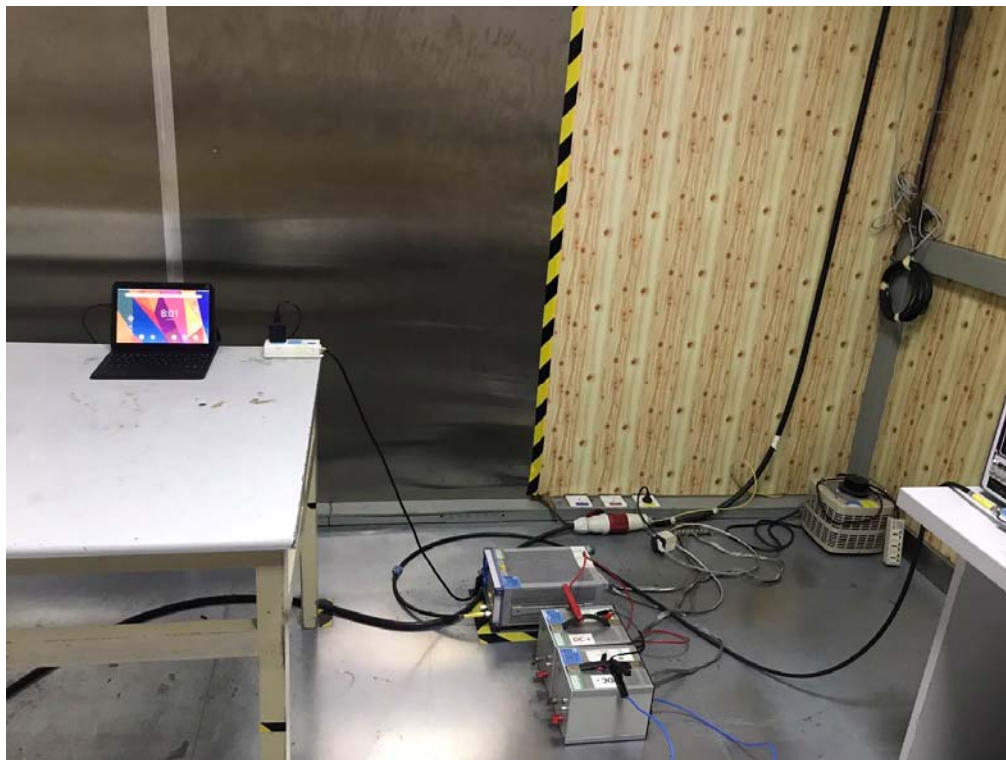
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 9.2 Result

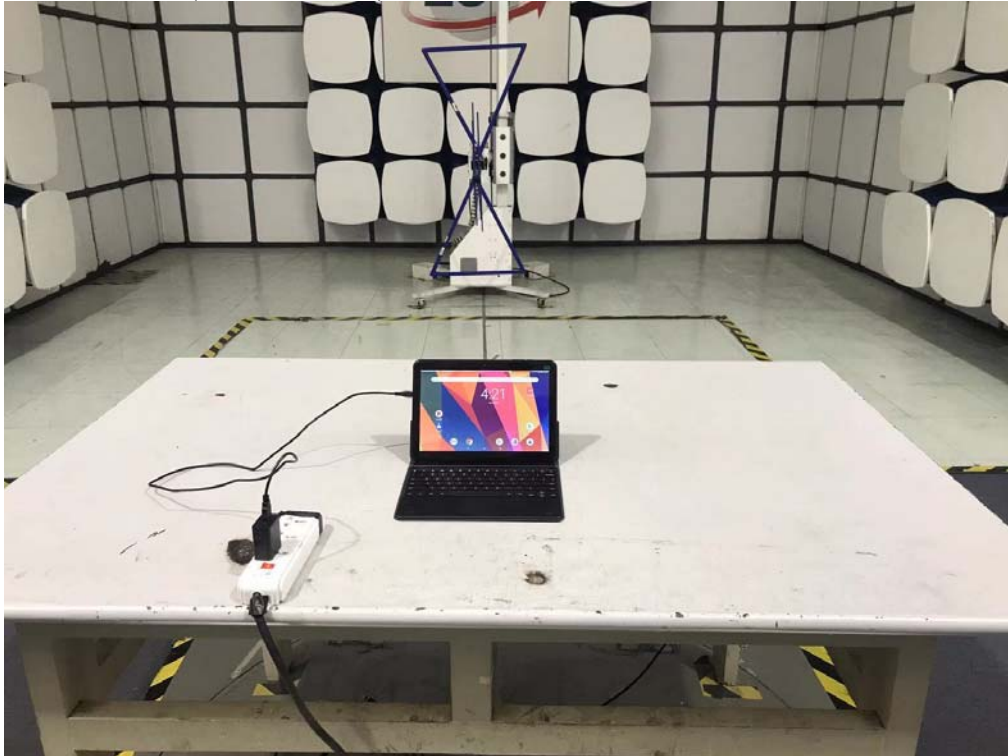
The antennas used for this product are Internal antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1.5dBi.

## 10 TEST SETUP PHOTO

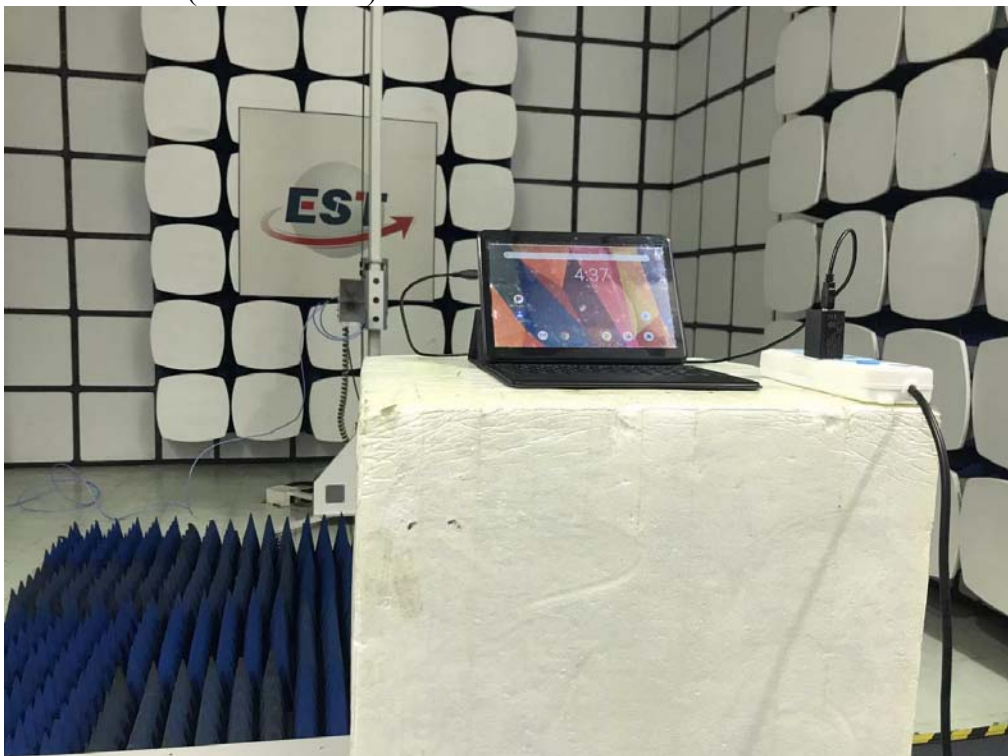
Conducted Test



Radiated Test (30-1000 MHz)

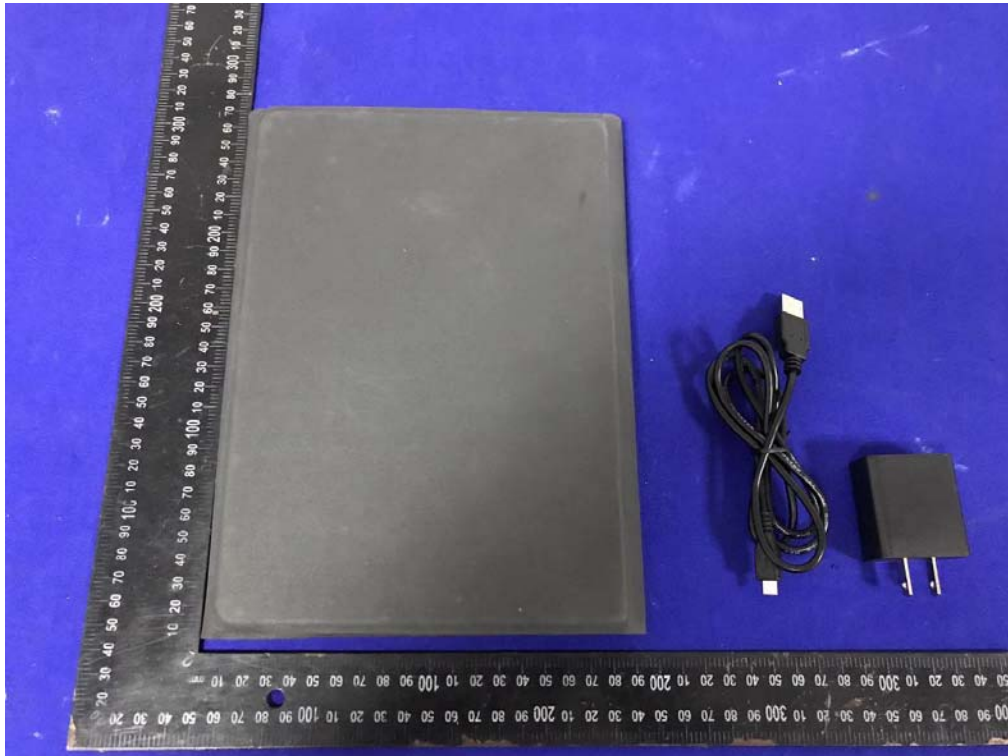


Radiated Test (Above 1GHz)



## 11 PHOTO EUT

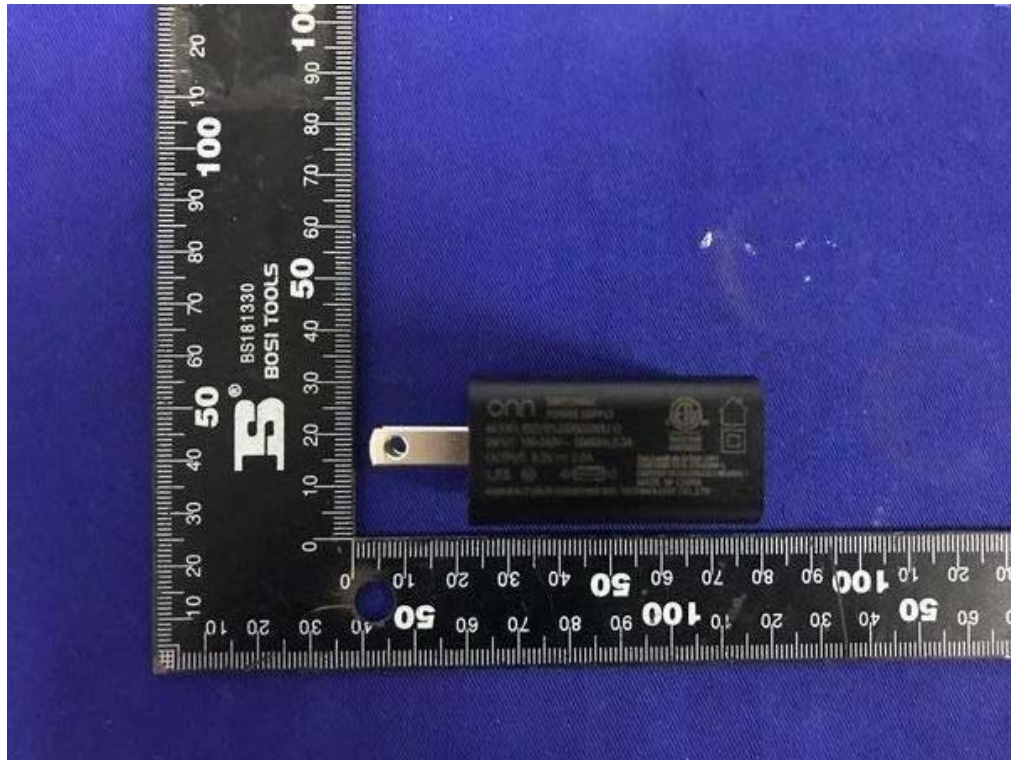
**External Photos**  
M/N: ONA19TB007



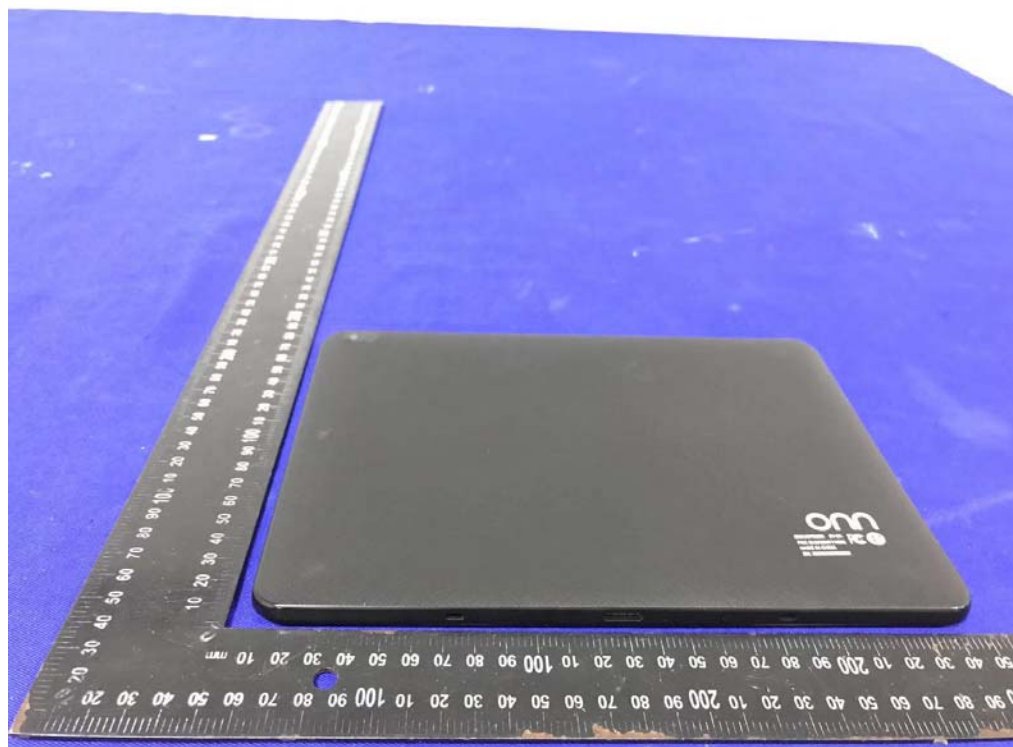
**External Photos**  
M/N: ONA19TB007



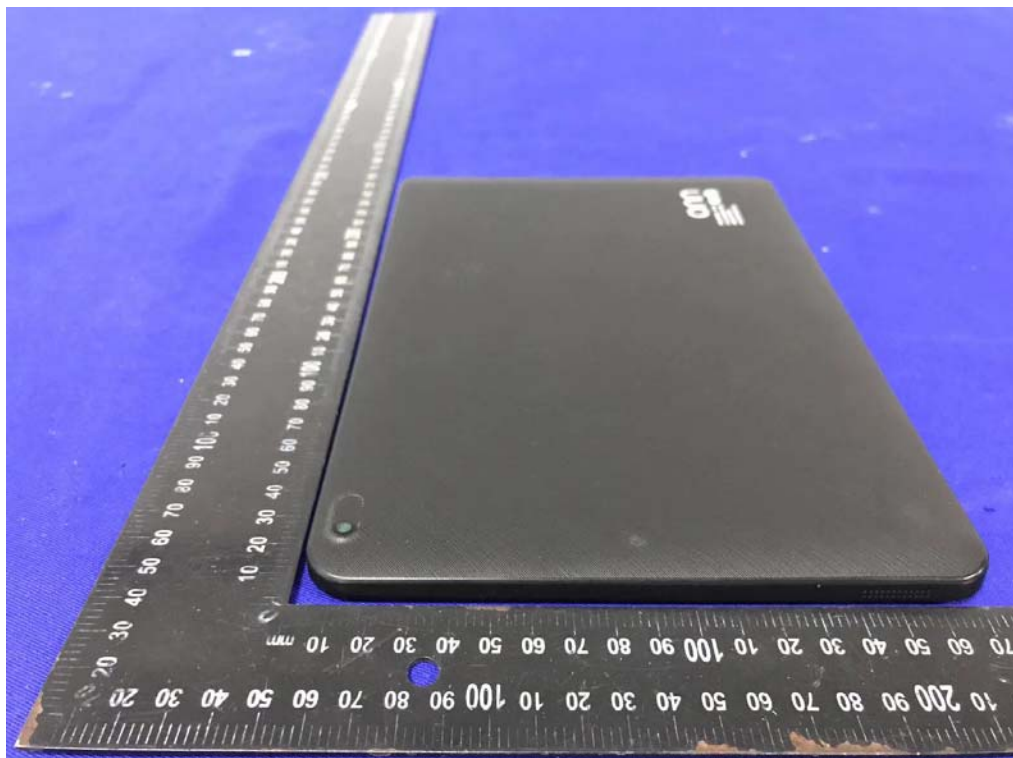
**External Photos**  
M/N: ONA19TB007



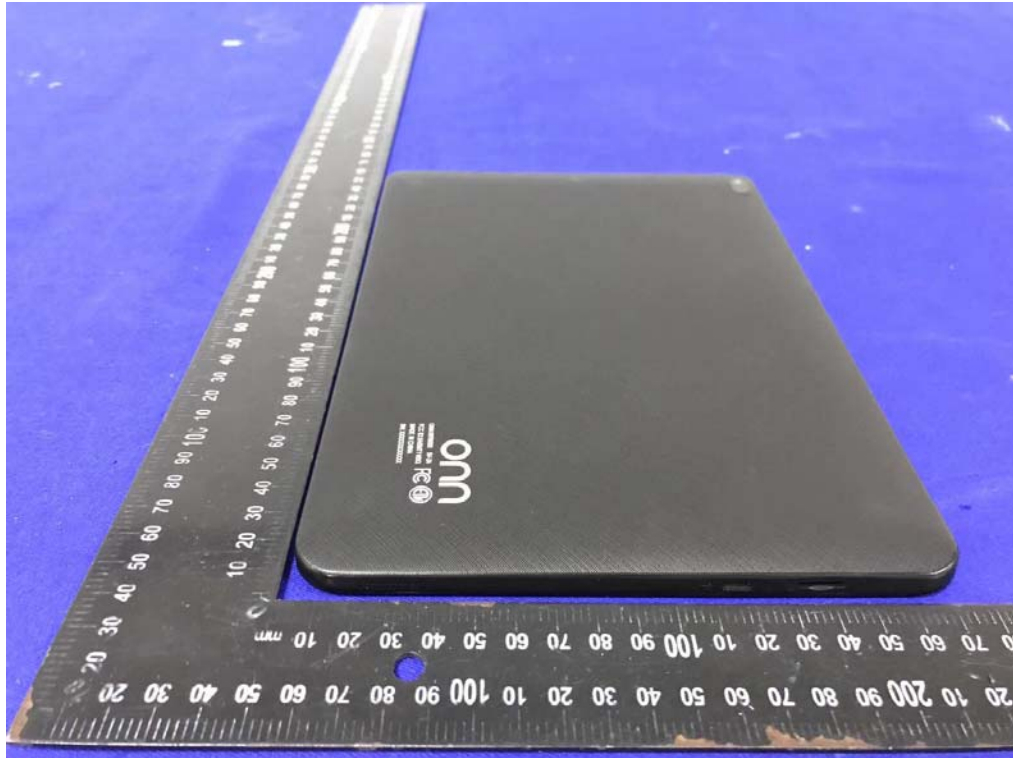
**External Photos**  
M/N: ONA19TB007



**External Photos**  
M/N: ONA19TB007



**External Photos**  
M/N: ONA19TB007



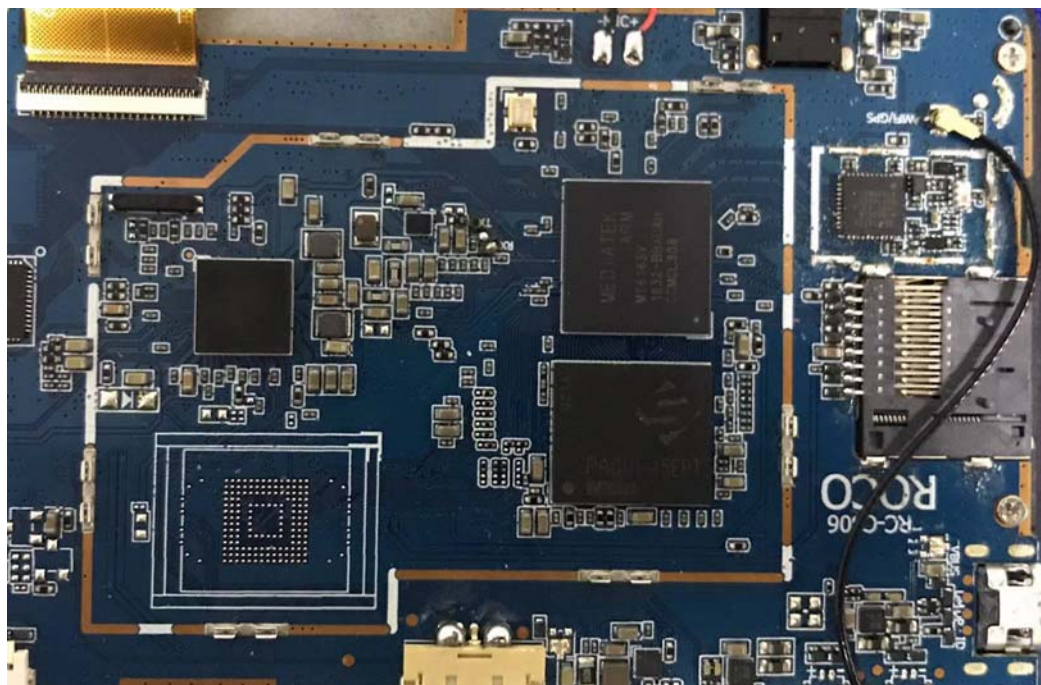
**Internal Photos**  
M/N: ONA19TB007



RF  
Antenna

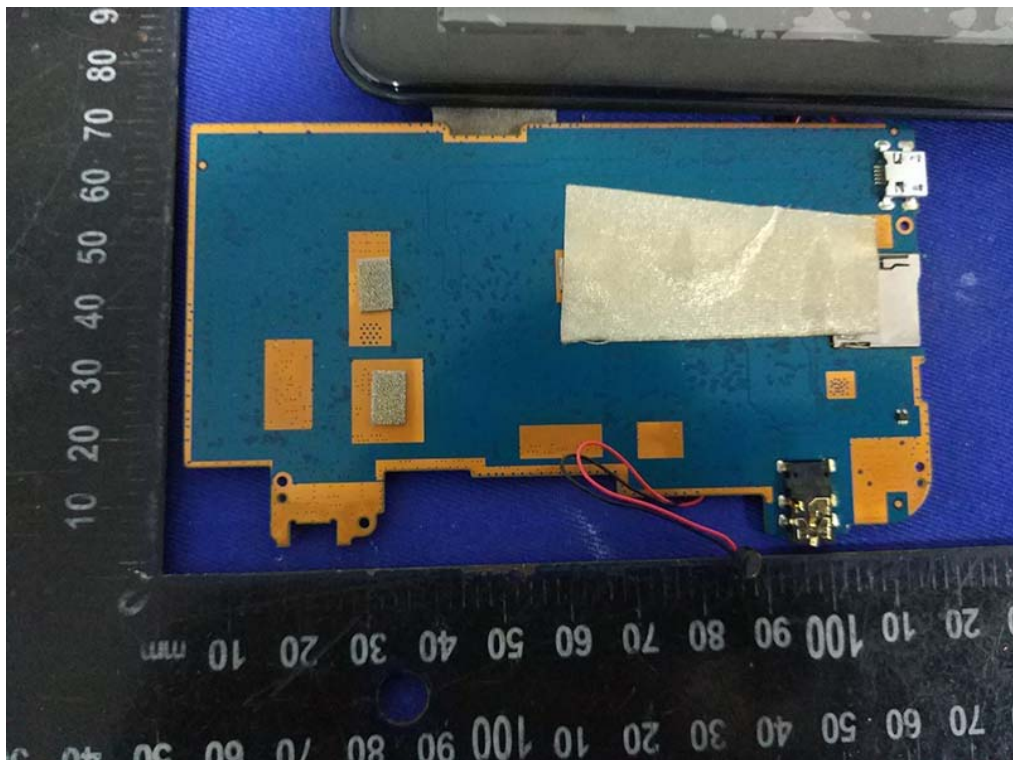
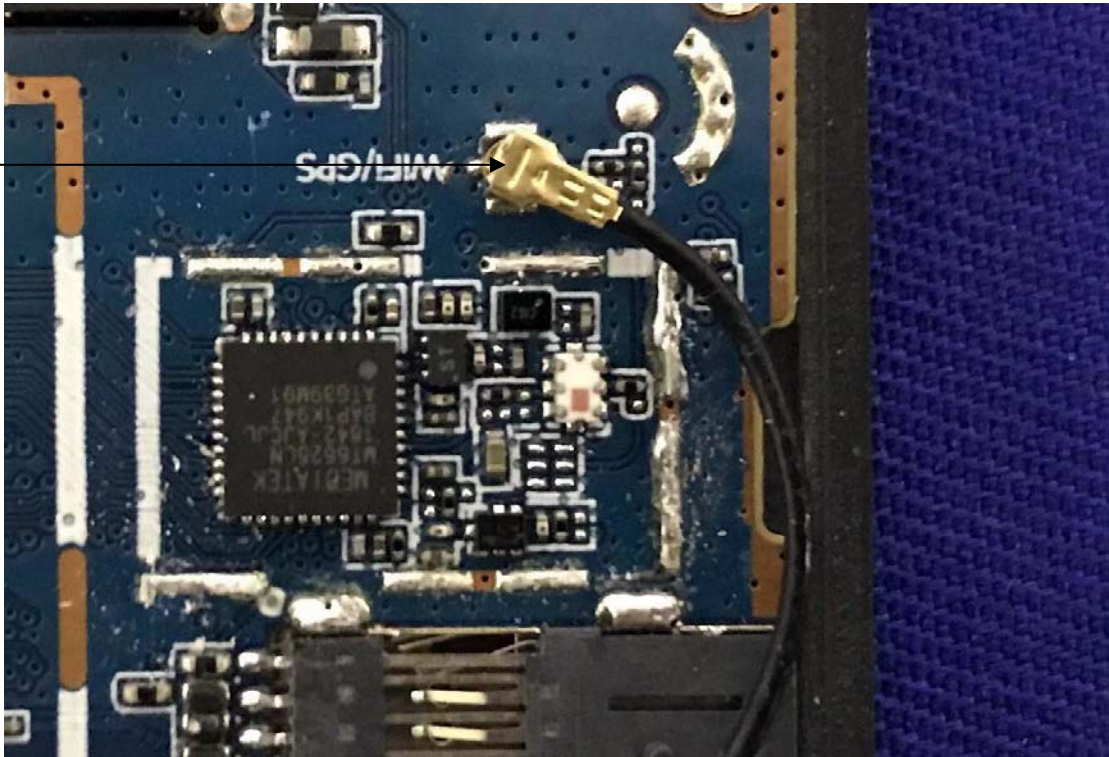


**Internal Photos**  
M/N: ONA19TB007

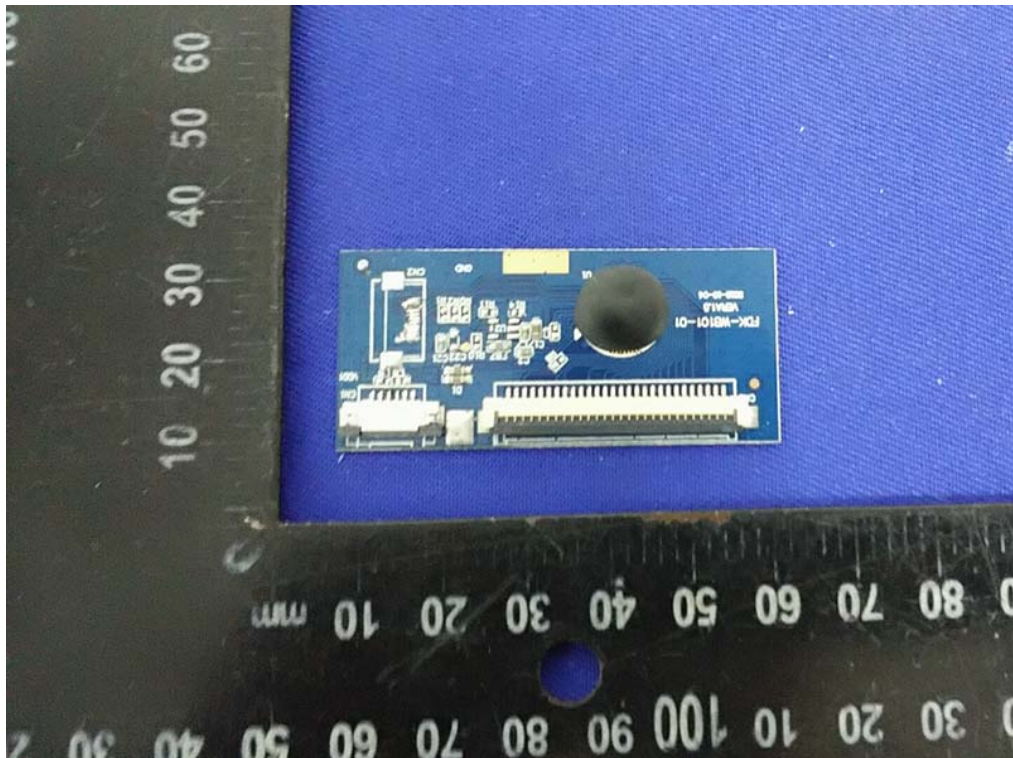
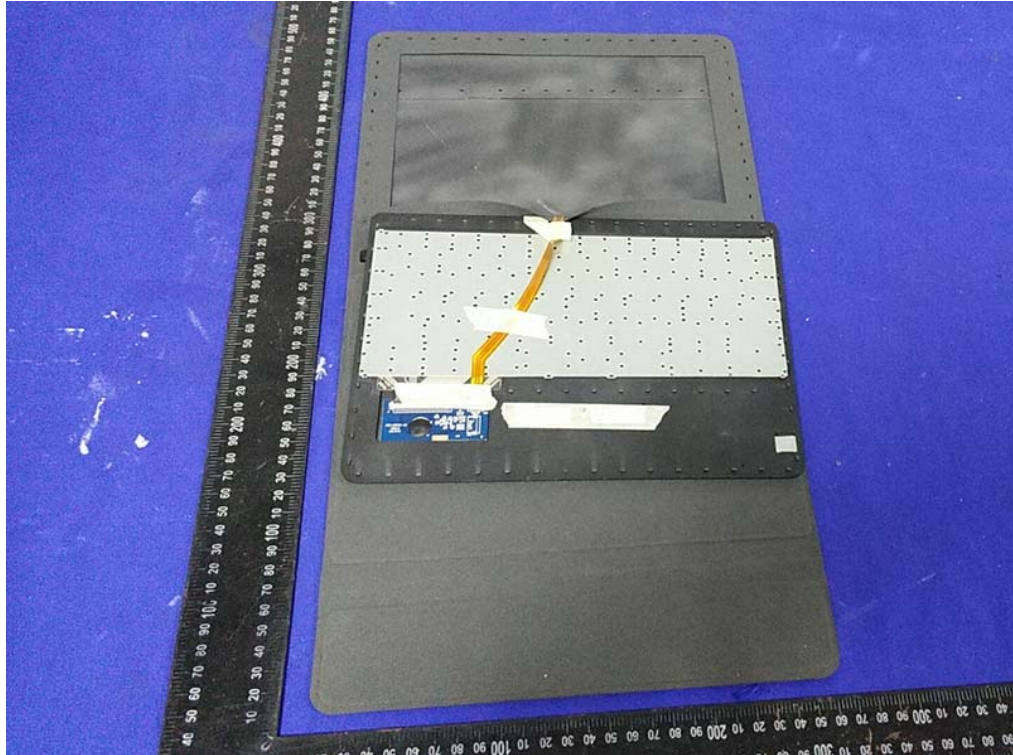


**Internal Photos**  
M/N: ONA19TB007

RF  
Antenna Port



**Internal Photos**  
M/N: ONA19TB007



**Internal Photos**  
M/N: ONA19TB007

