

# **RADIO TEST REPORT**

S

# Report No: STS1509121F01

Issued for

HLS Technology Corporation Limited

4F,B4 Building,3rd Industrial Zone,Fenghuanggang,Bao'an District Shenzhen, China

| Product Name:  | TABLET PC   |
|----------------|---|
| Brand Name:    | NO  |
| Model No.:     | M10701  |
| Series Model:  | M10702,M10703,M10704,M10705,<br>M10706,M10707,M10708,M10709 |
| FCC ID:        | 2ABBL-M10701  |
| Test Standard: | FCC Part 15.247   |

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# **TEST RESULT CERTIFICATION**

| Applicant's name:              | HLS Technology Corporation Limited   |
|--------------------------------|--|
| Address                        | 4F,B4 Building,3rd Industrial Zone,Fenghuanggang,Bao'an District Shenzhen, China |
| Manufacture's Name             | SHENZHEN HENGLONGSHENG TECHNOLOGY CO. LIMITED                                    |
| Address                        | 4F,B4 Building,3rd Industrial Zone,Fenghuanggang,Bao'an District Shenzhen, China |
| Product description            |  |
| Product name:                  | TABLET PC  |
| Model and/or type reference .: | M10701   |
| Series Model:                  | M10702,M10703,M10704,M10705,<br>M10706,M10707,M10708,M10709                      |
| Standards                      | FCC Part15.247   |
| Test procedure                 | . ANSI C63.10-2013   |

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date (s) of performance of tests25 Sep. 2015 ~10 Oct. 2015Date of Issue12 Oct. 2015Test ResultPass

Date of Test .....

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| Authorized Signatory : | howey Juney  |
|                        | (Bovey Yang) |

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## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.247) , Subpart C |                            |      |  |  |  |  |
|---------------------------------|----------------------------|------|--|--|--|--|
| Standard<br>Section             | Test Item Judgment Remark  |      |  |  |  |  |
| 15.207                          | Conducted Emission         | PASS |  |  |  |  |
| 15.247 (a)(2)                   | 6dB Bandwidth              | PASS |  |  |  |  |
| 15.247 (b)                      | Peak Output Power          | PASS |  |  |  |  |
| 15.247 (c)                      | Radiated Spurious Emission | PASS |  |  |  |  |
| 15.247 (d)                      | Power Spectral Density     | PASS |  |  |  |  |
| 15.205                          | Band Edge Emission         | PASS |  |  |  |  |
| 15.203                          | Antenna Requirement PASS   |      |  |  |  |  |

#### NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

#### 1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd. Add. : 1/F., Building B, Zhuoke Science Park, No.190,Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong,China CNAS Registration No.: L7649; FCC Registration No.: 842334; IC Registration No.: 12108A-1

#### **1.2 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement  $y\pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of  $\ k=2$ , providing a level of confidence of approximately 95 %  $^{\circ}$ 

| No. | Item                                       | Uncertainty |
|-----|--|-------------|
| 1   | Conducted Emission (9KHz-150KHz)           | ±2.88dB     |
| 2   | Conducted Emission (150KHz-30MHz)          | ±2.67dB     |
| 3   | RF power,conducted                         | ±0.70dB     |
| 4   | Spurious emissions, conducted              | ±1.19dB     |
| 5   | All emissions,radiated(<1G) 30MHz-200MHz   | ±2.83dB     |
| 6   | All emissions,radiated(<1G) 200MHz-1000MHz | ±2.94dB     |
| 7   | All emissions,radiated(>1G)                | ±3.03dB     |
| 8   | Temperature                                | ±0.5°C      |
| 9   | Humidity                                   | ±2%         |

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## 2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| Equipment                  | TABLET PC                                 |   |  |  |
|----------------------------|---|---|--|--|
| Trade Name                 | NO  |   |  |  |
| Model Name                 | M10701                                    |   |  |  |
| Series Model               | M10702,M10703,M1<br>M10708,M10709         | M10702,M10703,M10704,M10705,M10706,M10707,<br>M10708,M10709 |  |  |
| Model Difference           | Only different in mod                     | del name.   |  |  |
|                            | The EUT is a TABLE                        | ET PC   |  |  |
|                            | Operation<br>Frequency:                   | 2402~2480 MHz   |  |  |
|                            | Modulation Type:                          | GFSK  |  |  |
| Product Description        | Radio Technology                          | BLE   |  |  |
|                            | Number Of Channe                          | I 40  |  |  |
|                            | Antenna<br>Designation:                   | Please see Note 3.  |  |  |
|                            | Antenna Gain (dBi)                        | 0 dbi   |  |  |
| Channel List               | Please refer to the N                     | lote 2.   |  |  |
| Adapter                    | Input: AC100-240V,<br>Output: DC 5V, 1500 |   |  |  |
| Potton                     | Rated Voltage: 3.7V                       |   |  |  |
| Battery                    | capacity :3000mAh                         |   |  |  |
| Hardware version number    |   |   |  |  |
| Software versioning number |   |   |  |  |
| Connecting I/O Port(s)     | Please refer to the User's Manual         |   |  |  |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



#### 2.

|         | Channel List        |         |                     |         |                     |         |                    |
|---------|---------------------|---------|---------------------|---------|---------------------|---------|--------------------|
| Channel | Frequenc<br>y (MHz) | Channel | Frequenc<br>y (MHz) | Channel | Frequenc<br>y (MHz) | Channel | Frequency<br>(MHz) |
| 01      | 2402                | 11      | 2422                | 21      | 2442                | 31      | 2462               |
| 02      | 2404                | 12      | 2424                | 22      | 2444                | 32      | 2464               |
| 03      | 2406                | 13      | 2426                | 23      | 2446                | 33      | 2466               |
| 04      | 2408                | 14      | 2428                | 24      | 2448                | 34      | 2468               |
| 05      | 2410                | 15      | 2430                | 25      | 2450                | 35      | 2470               |
| 06      | 2412                | 16      | 2432                | 26      | 2452                | 36      | 2472               |
| 07      | 2414                | 17      | 2434                | 27      | 2454                | 37      | 2474               |
| 08      | 2416                | 18      | 2436                | 28      | 2456                | 38      | 2476               |
| 09      | 2418                | 19      | 2438                | 29      | 2458                | 39      | 2478               |
| 10      | 2420                | 20      | 2440                | 30      | 2460                | 40      | 2480               |

#### 3.

#### Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type   | Connector | Gain (dBi) | NOTE       |
|------|-------|------------|----------------|-----------|------------|------------|
| A    | NO    | M10701     | Dipole Antenna | N/A       | 0          | BT 4.0 ANT |



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## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description      |
|--------------|------------------|
| Mode 1       | TX CH1/CH20/CH40 |
| Mode 2       | Keeping TX mode  |

| For Conducted Emission |                 |  |
|------------------------|-----------------|--|
| Final Test Mode        | Description     |  |
| Mode 2                 | Keeping TX mode |  |

| For Radiated Emission  |                  |  |  |  |
|------------------------|------------------|--|--|--|
| Final Test Mode        | Description      |  |  |  |
| Mode 1                 | TX CH1/CH20/CH40 |  |  |  |
| Mode 2 Keeping TX mode |                  |  |  |  |

Note:

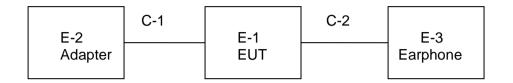
(1) The measurements are performed at the highest, middle, lowest available channels.

(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

(3) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.



## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





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## 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Serial No. | Note |
|------|-----------|-----------|----------------|------------|------|
| E-1  | TABLET PC | NO        | M10701         | N/A        | EUT  |
| E-2  | Adapter   | N/A       | 003            | N/A        | EUT  |
| E-3  | Earphone  | N/A       | N/A            | N/A        | N/A  |
|      |           |           |                |            |      |
|      |           |           |                |            |      |
|      |           |           |                |            |      |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| C-1  | unshielded    | NO           | 98cm   | /    |
| C-2  | unshielded    | NO           | 103cm  | /    |
|      |               |              |        |      |
|      |               |              |        |      |
|      |               |              |        |      |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in  $\[\]$  Length  $\[\]$  column.



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## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

#### Radiation Test equipment

| Kind of Equipment      | Manufacturer           | Type No.            | Serial No.    | Last calibration | Calibrated until |
|------------------------|------------------------|---------------------|---------------|------------------|------------------|
| Spectrum<br>Analyzer   | Agilent                | E4407B              | MY50140340    | 2014.10.25       | 2015.10.24       |
| Test Receiver          | R&S                    | ESCI                | 101427        | 2014.10.25       | 2015.10.24       |
| Bilog Antenna          | TESEQ                  | CBL6111D            | 34678         | 2014.11.25       | 2015.11.24       |
| Horn Antenna           | Schwarzbeck            | BBHA<br>9120D(1201) | 9120D-1343    | 2015.03.06       | 2016.03.05       |
| 50Ω Coaxial<br>Switch  | Anritsu                | MP59B               | 6200264416    | 2015.06.06       | 2016.06.05       |
| PreAmplifier           | Agilent                | 8449B               | 60538         | 2014.10.25       | 2015.10.24       |
| Loop Antenna           | ARA                    | PLA-1030/B          | 1029          | 2015.06.08       | 2016.06.07       |
| USB RF power<br>sensor | DARE                   | RPR3006W            | 15100041SNO03 | 2014.10.25       | 2015.10.24       |
| STS-E048               | MXA SIGNAL<br>Analyzer | Agilent             | N9020A        | 2015.10.25       | 2016.10.24       |

#### Conduction Test equipment

| Kind of Equipment | Manufacturer Type No. |          | Serial No. | Last calibration | Calibrated until |
|-------------------|-----------------------|----------|------------|------------------|------------------|
| EMI Test Receiver | R&S                   | ESPI     | 102086     | 2014.11.20       | 2015.11.19       |
| LISN              | R&S                   | ENV216   | 101242     | 2014.10.25       | 2015.10.24       |
| LISN              | EMCO                  | 3810/2NM | 000-23625  | 2014.10.25       | 2015.10.24       |

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## 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&207(a) limit in the table below has to be followed.

|                 | Class B    | (dBuV)    | Standard |
|-----------------|------------|-----------|----------|
| FREQUENCY (MHz) | Quasi-peak | Average   | Standard |
| 0.15 -0.5       | 66 - 56 *  | 56 - 46 * | CISPR    |
| 0.50 -5.0       | 56.00      | 46.00     | CISPR    |
| 5.0 -30.0       | 60.00      | 50.00     | CISPR    |

| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC |
|-----------|-----------|-----------|-----|
| 0.50 -5.0 | 56.00     | 46.00     | FCC |
| 5.0 -30.0 | 60.00     | 50.00     | FCC |

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

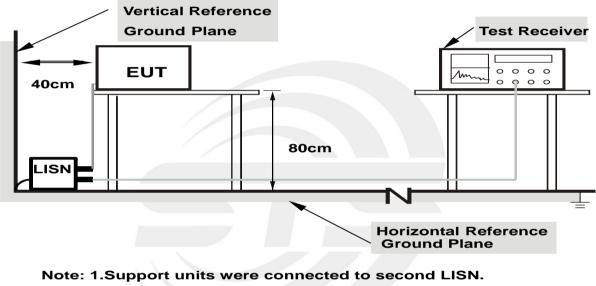


## 3.2 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

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- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.



#### 3.3 TEST SETUP

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



## 3.5 TEST RESULTS

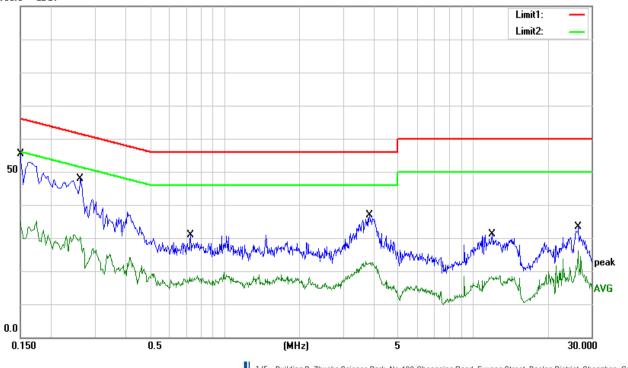
| EUT :          | TABLET PC                         | Model Name. :       | M10701 |
|----------------|-----------------------------------|---------------------|--------|
| Temperature :  | <b>26</b> ℃                       | Relative Humidity : | 54%    |
| Pressure :     | 1010hPa                           | Phase :             | L      |
| Test Voltage : | DC 5V from Adapter<br>AC120V/60Hz | Test Mode:          | Mode 2 |

| Frequency | Reading | Correct    | Result | Limit  | Margin | Demerik |
|-----------|---------|------------|--------|--------|--------|---------|
| (MHz)     | (dBuV)  | Factor(dB) | (dBuV) | (dBuV) | (dB)   | Remark  |
| 0.1500    | 44.22   | 11.20      | 55.42  | 66.00  | -10.58 | QP      |
| 0.1500    | 23.72   | 11.20      | 34.92  | 56.00  | -21.08 | AVG     |
| 0.2620    | 37.94   | 9.94       | 47.88  | 61.37  | -13.49 | QP      |
| 0.2620    | 20.42   | 9.94       | 30.36  | 51.37  | -21.01 | AVG     |
| 0.7300    | 20.99   | 9.99       | 30.98  | 56.00  | -25.02 | QP      |
| 0.7300    | 7.19    | 9.99       | 17.18  | 46.00  | -28.82 | AVG     |
| 3.8220    | 26.70   | 10.20      | 36.90  | 56.00  | -19.10 | QP      |
| 3.8220    | 12.19   | 10.20      | 22.39  | 46.00  | -23.61 | AVG     |
| 11.9820   | 20.67   | 10.36      | 31.03  | 60.00  | -28.97 | QP      |
| 11.9820   | 7.42    | 10.36      | 17.78  | 50.00  | -32.22 | AVG     |
| 26.6100   | 22.78   | 10.55      | 33.33  | 60.00  | -26.67 | QP      |
| 26.6100   | 15.33   | 10.55      | 25.88  | 50.00  | -24.12 | AVG     |

#### Remark:



100.0 dBuV



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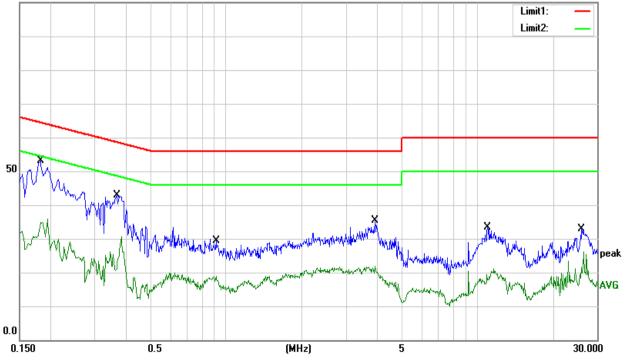
| EUT :         | TABLET PC                         | Model Name. :       | M10701 |
|---------------|-----------------------------------|---------------------|--------|
| Temperature : | <b>26</b> ℃                       | Relative Humidity : | 54%    |
| Pressure :    | 1010hPa                           | Phase :             | N      |
| Test Voltage: | DC 5V from Adapter<br>AC120V/60Hz | Test Mode:          | Mode 2 |

| Frequency | Reading | Correct    | Result | Limit  | Margin | Domork |
|-----------|---------|------------|--------|--------|--------|--------|
| (MHz)     | (dBuV)  | Factor(dB) | (dBuV) | (dBuV) | (dB)   | Remark |
| 0.1824    | 43.20   | 10.00      | 53.20  | 64.38  | -11.18 | QP     |
| 0.1824    | 24.78   | 10.00      | 34.78  | 54.38  | -19.60 | AVG    |
| 0.3673    | 32.84   | 9.97       | 42.81  | 58.56  | -15.75 | QP     |
| 0.3673    | 12.65   | 9.97       | 22.62  | 48.56  | -25.94 | AVG    |
| 0.9140    | 19.29   | 10.00      | 29.29  | 56.00  | -26.71 | QP     |
| 0.9140    | 8.00    | 10.00      | 18.00  | 46.00  | -28.00 | AVG    |
| 3.9140    | 25.23   | 10.19      | 35.42  | 56.00  | -20.58 | QP     |
| 3.9140    | 11.78   | 10.19      | 21.97  | 46.00  | -24.03 | AVG    |
| 10.9900   | 23.07   | 10.30      | 33.37  | 60.00  | -26.63 | QP     |
| 10.9900   | 7.46    | 10.30      | 17.76  | 50.00  | -32.24 | AVG    |
| 26.0020   | 22.03   | 10.74      | 32.77  | 60.00  | -27.23 | QP     |
| 26.0020   | 9.12    | 10.74      | 19.86  | 50.00  | -30.14 | AVG    |

#### Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.

100.0 dBuV



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## 4. RADIATED EMISSION MEASUREMENT

### 4.1 RADIATED EMISSION LIMITS

6dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&205(a), then the Part15.247&209(a) limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

| Frequencies | Field Strength     | Measurement Distance |
|-------------|--------------------|----------------------|
| (MHz)       | (micorvolts/meter) | (meters)             |
| 0.009~0.490 | 2400/F(KHz)        | 300                  |
| 0.490~1.705 | 24000/F(KHz)       | 30                   |
| 1.705~30.0  | 30                 | 30                   |
| 30~88       | 100                | 3                    |
| 88~216      | 150                | 3                    |
| 216~960     | 200                | 3                    |
| Above 960   | 500                | 3                    |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Class B (dBuV/m) (at 3M) |         |  |
|-----------------|--------------------------|---------|--|
|                 | PEAK                     | AVERAGE |  |
| Above 1000      | 74                       | 54      |  |
|                 |                          |         |  |

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter              | Setting                        |
|---------------------------------|--------------------------------|
| Attenuation                     | Auto                           |
| Detector                        | Peak                           |
| Start Frequency                 | 1000 MHz(Peak/AV)              |
| Stop Frequency                  | 10th carrier harmonic(Peak/AV) |
| RB / VB (emission in restricted |                                |
| band)                           | 1 MHz / 1 MHz, AV=3 MHz        |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |



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## 4.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested

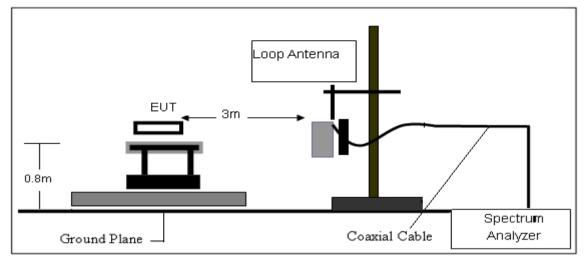
and performed pretest to three orthogonal axis. The worst case emissions were reported



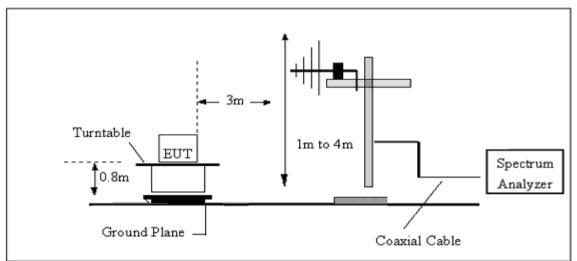


## 4.3 TEST SETUP

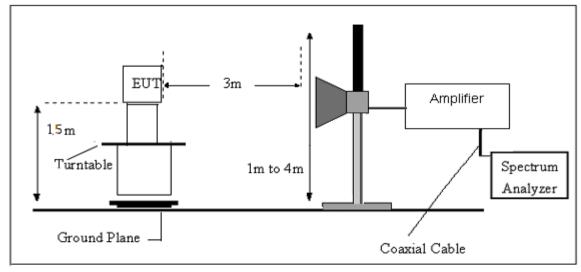
(A) Radiated Emission Test-Up Frequency Below 30MHz



## (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



## (C) Radiated Emission Test-Up Frequency Above 1GHz





#### 4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 4.5 TEST RESULTS

(Between 9KHz - 30 MHz)

| EUT:         | TABLET PC   | Model Name. :       | M10701                            |
|--------------|-------------|---------------------|-----------------------------------|
| Temperature: | <b>20</b> ℃ | Relative Humidtity: | 48%                               |
| Pressure:    | 1010 hPa    |                     | DC 5V from Adapter<br>AC120V/60Hz |
| Test Mode :  | Link mode   | Polarization :      |                                   |

| Freq. | Reading  | Limit    | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB)   | P/F   |
|       | -        |          |        | PASS  |
|       |          |          |        | PASS  |

## NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

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## Between 30-1000MHz

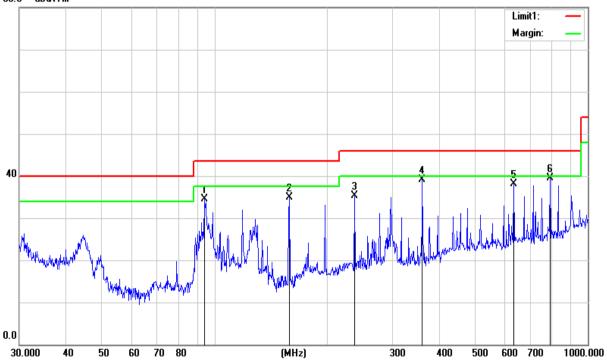
| EUT :          | TABLET PC                         | Model Name. :       | M10701     |
|----------------|-----------------------------------|---------------------|------------|
| Temperature :  | <b>26</b> °C                      | Relative Humidity : | 54%        |
| Pressure :     | 1010hPa                           | Phase :             | Horizontal |
| Test Voltage : | DC 5V from Adapter<br>AC120V/60Hz | Test Mode :         | Mode 2     |

| Frequency | Reading | Correct      | Result   | Limit    | Margin | Remark |
|-----------|---------|--------------|----------|----------|--------|--------|
| (MHz)     | (dBuV)  | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 94.0978   | 24.53   | 10.05        | 34.58    | 43.50    | -8.92  | QP     |
| 158.6676  | 23.34   | 11.66        | 35.00    | 43.50    | -8.50  | QP     |
| 237.4760  | 23.71   | 11.51        | 35.22    | 46.00    | -10.78 | QP     |
| 360.4476  | 22.68   | 16.45        | 39.13    | 46.00    | -6.87  | QP     |
| 633.9072  | 15.05   | 22.97        | 38.02    | 46.00    | -7.98  | QP     |
| 793.3960  | 13.96   | 25.45        | 39.41    | 46.00    | -6.59  | QP     |

#### Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

#### 80.0 dBuV/m





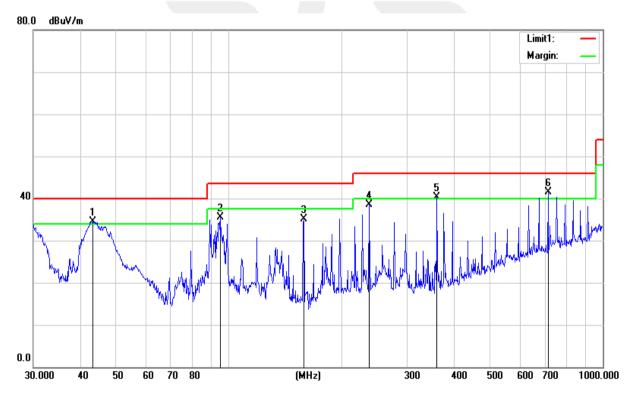
## Page 21 of 38 Report No.: STS1509121F01

| EUT :         | TABLET PC                         | Model Name. :       | M10701   |
|---------------|-----------------------------------|---------------------|----------|
| Temperature : | <b>26</b> ℃                       | Relative Humidity : | 54%      |
| Pressure :    | 1010hPa                           | Phase :             | Vertical |
|               | DC 5V from Adapter<br>AC120V/60Hz | Test Mode:          | Mode 2   |

| Frequency | Reading | Correct      | Result   | Limit    | Margin | Remark |
|-----------|---------|--------------|----------|----------|--------|--------|
| (MHz)     | (dBuV)  | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB)   |        |
| 43.3534   | 22.94   | 11.61        | 34.55    | 40.00    | -5.45  | QP     |
| 95.0930   | 25.28   | 10.14        | 35.42    | 43.50    | -8.08  | QP     |
| 158.6676  | 23.42   | 11.66        | 35.08    | 43.50    | -8.42  | QP     |
| 237.4760  | 26.93   | 11.51        | 38.44    | 46.00    | -7.56  | QP     |
| 360.4476  | 23.87   | 16.45        | 40.32    | 46.00    | -5.68  | QP     |
| 714.1734  | 17.45   | 23.99        | 41.44    | 46.00    | -4.56  | QP     |

#### Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.





Above 1000 MHz

| EUT :         | TABLET PC | Model Name :        | M10701  |
|---------------|-----------|---------------------|---------|
| Temperature : | 20 °C     | Relative Humidity : | 48%     |
| Pressure :    | 1010 hPa  | Test Voltage :      | DC 3.7V |

| Frequency<br>(MHz)       | Reading<br>(dBuV)           | Factor<br>(dB) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Comment    |  |  |
|--------------------------|-----------------------------|----------------|-------------------------------|-------------------|----------------|----------|------------|--|--|
|                          | Low Channel (GFSK/2402 MHz) |                |                               |                   |                |          |            |  |  |
| 4804.20                  | 62.26                       | -3.62          | 58.64                         | 74                | -15.36         | PK       | Vertical   |  |  |
| 4804.22                  | 43.28                       | -3.62          | 39.66                         | 54                | -14.34         | AV       | Vertical   |  |  |
| 7206.13                  | 58.20                       | -0.9           | 57.3                          | 74                | -16.7          | PK       | Vertical   |  |  |
| 7206.12                  | 37.92                       | -0.9           | 37.02                         | 54                | -16.98         | AV       | Vertical   |  |  |
| 4804.00                  | 58.77                       | -3.65          | 55.12                         | 74                | -18.88         | PK       | Horizontal |  |  |
| 4803.99                  | 40.69                       | -3.65          | 37.04                         | 54                | -16.96         | AV       | Horizontal |  |  |
|                          |                             | Mid            | Channel (GFS                  | SK/2440 MHz)      |                |          |            |  |  |
| 4882.08                  | 64.09                       | -3.65          | 60.44                         | 74                | -13.56         | PK       | Vertical   |  |  |
| 4882.07                  | 47.49                       | -3.65          | 43.84                         | 54                | -10.16         | AV       | Vertical   |  |  |
| 7320.22                  | 59.67                       | -0.83          | 58.84                         | 74                | -15.16         | PK       | Vertical   |  |  |
| 7320.21                  | 42.46                       | -0.83          | 41.63                         | 54                | -12.37         | AV       | Vertical   |  |  |
| 4882.18                  | 60.31                       | -3.68          | 56.63                         | 74                | -17.37         | PK       | Horizontal |  |  |
| 4882.15                  | 44.03                       | -3.68          | 40.35                         | 54                | -13.65         | AV       | Horizontal |  |  |
|                          |                             | High           | h Channel (GF                 | SK/2480 MHz)      | )              |          |            |  |  |
| 4960.26                  | 60.12                       | -3.59          | 56.53                         | 74                | -17.47         | PK       | Vertical   |  |  |
| 4960.30                  | 44.27                       | -3.59          | 40.68                         | 54                | -13.32         | AV       | Vertical   |  |  |
| 7440.26                  | 59.49                       | -0.73          | 58.76                         | 74                | -15.24         | PK       | Vertical   |  |  |
| 7440.30                  | 44.28                       | -0.73          | 43.55                         | 54                | -10.45         | AV       | Vertical   |  |  |
| 4960.32                  | 60.18                       | -3.59          | 56.59                         | 74                | -17.41         | PK       | Horizontal |  |  |
| 4960.31                  | 43.94                       | -3.59          | 40.35                         | 54                | -13.65         | AV       | Horizontal |  |  |
| Remark:<br>1. Factor = A |                             |                |                               |                   |                |          |            |  |  |



## 4.6 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

| EUT :         | TABLET PC    | Model Name :        | M10701  |
|---------------|--------------|---------------------|---------|
| Temperature : | <b>20</b> °C | Relative Humidity : | 48%     |
| Pressure :    | 1010 hPa     | Test Voltage :      | DC 3.7V |

| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Emission<br>Level<br>(dBµV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Comment    |
|--------------------|-------------------|----------------|-------------------------------|-------------------|----------------|----------|------------|
|                    |                   |                | GFSI                          | <                 |                |          |            |
| 2390.0             | 66.99             | -12.99         | 54                            | 74                | -20            | PK       | Vertical   |
| 2390.0             | 53.89             | -12.99         | 40.9                          | 54                | -13.1          | AV       | Vertical   |
| 2390.0             | 65.52             | -12.99         | 52.53                         | 74                | -21.47         | PK       | Horizontal |
| 2390.0             | 51.44             | -12.99         | 38.45                         | 54                | -15.55         | AV       | Horizontal |
| 2483.6             | 65.99             | -12.78         | 53.21                         | 74                | -20.79         | PK       | Vertical   |
| 2483.6             | 51.81             | -12.78         | 39.03                         | 54                | -14.97         | AV       | Vertical   |
| 2483.6             | 66.80             | -12.78         | 54.02                         | 74                | -19.98         | PK       | Horizontal |
| 2483.6             | 52.74             | -12.78         | 39.96                         | 54                | -14.04         | AV       | Horizontal |
| Remark:            |                   |                |                               |                   |                |          |            |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Low measurement frequencies is range from 2310 to 2400 MHz, high measurement frequencies is range from 2483.5 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2310-2400 MHz and 2483.5-2500 MHz.

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## 5. CONDUCTED SPURIOUS EMISSIONS

#### 5.1 REQUIREMENT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

#### 5.2 TEST PROCEDURE

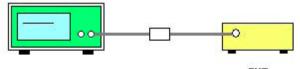
According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

| Spectrum Parameter                    | Setting                         |  |  |
|---------------------------------------|---------------------------------|--|--|
| Detector                              | Peak                            |  |  |
| Start/Stop Frequency                  | 30 MHz to 10th carrier harmonic |  |  |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz                 |  |  |
| Trace-Mode:                           | Max hold                        |  |  |

For Band edge

| Spectrum Parameter                    | Setting                          |  |  |
|---------------------------------------|----------------------------------|--|--|
| Detector                              | Peak                             |  |  |
| Start/Stop Frequency                  | Lower Band Edge: 2310 – 2404 MHz |  |  |
| Start/Stop Frequency                  | Upper Band Edge: 2478 – 2500 MHz |  |  |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz                  |  |  |
| Trace-Mode:                           | Max hold                         |  |  |

#### 5.3 TEST SETUP



#### Spectrum Analyzer

EUT

The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

#### 5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



## 5.5 TEST RESULTS

| EUT :         | TABLET PC                 | Model Name :        | M10701  |  |  |
|---------------|---------------------------|---------------------|---------|--|--|
| Temperature : | <b>25</b> ℃               | Relative Humidity : | 50%     |  |  |
| Pressure :    | 1012 hPa                  | Test Voltage :      | DC 3.7V |  |  |
| Test Mode :   | TX Mode /CH01, CH20, CH40 |                     |         |  |  |

## 01 CH

|                            | rum Analyzer - Swe<br>RF 50 Ω  |                                      | SENSE:IN                   | -                       | ALIGNAUTO  |                           | 10.001           | 8 AM Oct 09, 20                                 |
|----------------------------|--|--------------------------------------|----------------------------|-------------------------|--|---------------------------|------------------|---|
| enter F                    |  | 000000 GHz                           | NO East Trig               | : Free Run<br>en: 30 dB | Avg Type:  | Log-Pwr                   |                  | RACE 1 2 3 4 5<br>TYPE M WAAWA<br>DET P P P P F |
| ) dB/div                   | Ref Offset 0.5<br>Ref -0.81 d  |                                      |                            |                         |  |                           | Mkr1 2<br>-5.    | .402 GF<br>811 dB                               |
| 0.8                        | <b>V</b> 1   |                                      |                            |                         |  |                           |                  |   |
| 0.8                        |  |                                      |                            |                         |  |                           |                  |   |
| 0.8                        |  |                                      |                            |                         |  |                           |                  | -25.81  |
| 18                         |  |                                      |                            |                         |  |                           |                  |   |
| 1.8                        |  |                                      |                            |                         |  |                           |                  |   |
| 1.8                        | and the second | and the second states and the second | معاديداته المدانيين بريدهم | بالجرد الالايه بوطلوية  | al and the second state of the | ويرد الالمغاط الدوالاريدة |                  |   |
| 1.8                        |  |                                      |                            |                         |  |                           |                  |   |
|                            |  |                                      |                            |                         |  |                           |                  |   |
| 18                         |  |                                      |                            |                         |  |                           |                  |   |
|                            |  |                                      |                            |                         |  |                           |                  |   |
| tart 30 M<br>Res BW        | /IHz<br>100 kHz  |                                      | #VBW 300                   | kHz                     |  | Sw                        | Stop<br>eep 2.39 | 25.00 GI<br>s (8001 p                           |
| r Mode Ti                  |  | ×<br>2.402 GHz                       | ĭ<br>-5.811 dBm            | FUNCTION                | FUNCTION WIDTH   | FU                        | NCTION VALUE     |   |
| 2 N 1<br>3                 | f  | 24.925 GHz                           | -48.477 dBm                |                         |  |                           |                  |   |
|                            |  |                                      |                            |                         |  |                           |                  |   |
| L I                        |  |                                      |                            |                         |  |                           |                  |   |
| 1<br>5                     |  |                                      |                            |                         |  |                           |                  |   |
| 4<br>5<br>5<br>7           |  |                                      |                            |                         |  |                           |                  |   |
| 4<br>5<br>6<br>7<br>8<br>9 |  |                                      |                            |                         |  |                           |                  |   |
| 4<br>5<br>7<br>3           |  |                                      |                            |                         |  |                           |                  |   |
|                            |  |                                      |                            |                         |  |                           |                  |   |



## 20 CH

|                    |                       | er - Swept SA          |                         |  |                              |         |                   |                      |  |                                    |
|--------------------|-----------------------|------------------------|-------------------------|--|------------------------------|---------|-------------------|----------------------|--|------------------------------------|
| RL                 | RF                    | 50 Ω AC                |                         | SI   | ENSE:INT                     |         | ALIGN AUTO        | e: Log-Pwr           |  | :48 AM Oct 09, 21<br>TRACE 1 2 3 4 |
| enter F            | req 12.               | 5150000                | P                       | NO: Fast 😱<br>Gain:Low   | Trig: Free F<br>#Atten: 30 d | un<br>B | Avgiyp            | e: Log-Pwr           |  | TYPE MWWW<br>DET P P P P           |
| dB/div             |                       | set 0.5 dB<br>1.50 dBm |                         |  |                              |         |                   |                      |  | 2.440 GH<br>5.502 dB               |
| 0.5                | <b>V</b> 1            |                        |                         |  |                              |         |                   |                      |  |                                    |
| 0.5                |                       |                        |                         |  |                              |         |                   |                      |  | -25.50                             |
| .5                 |                       |                        |                         |  |                              |         |                   |                      |  |                                    |
| .5                 |                       |                        |                         |  |                              |         |                   |                      |  |                                    |
| .5                 |                       |                        |                         |  |                              | ر مالار | بياطيعين والمسادر | المالة المريد المريد | and the second s | and the second second              |
| .5                 | patricks/plibits/Plip | فالمتبو بالتينا المحجم |                         | and a start of the |                              |         |                   |                      | • ···  |                                    |
| .5                 |                       |                        |                         |  |                              |         |                   |                      |  |                                    |
| .5                 |                       |                        |                         |  |                              |         |                   |                      |  |                                    |
|                    |                       |                        |                         |  |                              |         |                   |                      |  |                                    |
| art 30 I<br>les BW | MHz<br>100 kH         | z                      |                         | #VBV   | V 300 kHz                    |         |                   | s                    | Sto<br>weep 2.39   | p 25.00 G<br>s (8001 p             |
| R MODE T           |                       | ×                      |                         | Y  | FUNC                         | ION     | FUNCTION WIDTH    |                      | FUNCTION VALUE   |                                    |
|                    | 1 f<br>1 f            |                        | 2.440 GHz<br>24.526 GHz | -5.502 d<br>-50.245 d  |                              |         |                   |                      |  |                                    |
|                    |                       |                        |                         |  |                              |         |                   |                      |  |                                    |
|                    |                       |                        |                         |  |                              |         |                   |                      |  |                                    |
| i<br>)             |                       |                        |                         |  |                              |         |                   |                      |  |                                    |
| 2                  |                       |                        |                         |  |                              |         |                   |                      |  |                                    |
| 1                  |                       |                        |                         |  | 1                            |         | STATUS            |                      |  |                                    |
| 1                  |                       |                        |                         |  |                              |         | 514105            |                      |  |                                    |

40 CH

| RL               | RF             | 50 Ω AC                    |                   | SEI                        | ISE:INT                        | AL                | IGN AUTO                    |                 | 12:33            | 3:59 AM Oct 09, 2                         |
|------------------|----------------|----------------------------|-------------------|----------------------------|--------------------------------|-------------------|-----------------------------|-----------------|------------------|---|
| enter l          | Freq 1         | 2.51500000                 | Р                 | NO: Fast 😱<br>Sain:Low     | Trig: Free Ru<br>#Atten: 30 dE |                   | Avg Type                    | : Log-Pwr       |                  | TRACE 1 2 3 4<br>TYPE MWWW<br>DET P P P P |
| dB/div           |                | Offset 0.5 dB<br>-0.43 dBm |                   |                            |                                |                   |                             |                 |                  | 2.480 GI<br>5.426 dB                      |
| 4                |                | (1                         |                   |                            |                                |                   |                             |                 |                  |   |
| 4                |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
| 4                |                |                            |                   |                            |                                |                   |                             |                 |                  | -26.00                                    |
| 4                |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
| 4                |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
| 4                | فالأستاس       | And the second             | والمراجع والمحاجم | A DESCRIPTION OF THE OWNER |                                | البنينة مصاطنينها | الراعلين المستعلم والمستعلم | يسأون المسيرواس |                  | and the second designed where             |
| 4                |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
| 4                |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
| 4                |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
| .4               |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
| art 30<br>les BW | MHz<br>V 100 I | ٢Hz                        |                   | #VBW                       | 300 kHz                        |                   |                             | S               | Sto<br>weep 2.39 | p 25.00 G<br>s (8001 p                    |
| NODE N           | 1 f            | ×                          | 2.480 GHz         | -5,426 dE                  | FUNCTION Sm                    | IN FUNC           | TION WIDTH                  | f               | UNCTION VALUE    |   |
| Ν                | 1 f            | 2                          | 24.650 GHz        | -49.830 dE                 | 3m                             |                   |                             |                 |                  |   |
|                  |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
|                  |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
|                  |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
|                  |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
| N                |                |                            |                   |                            |                                |                   |                             |                 |                  |   |
|                  |                |                            |                   |                            |                                |                   |                             |                 |                  |   |



01 CH

### For Band edge

Analyzer -Swept SA ENSE:INT )ct 09, 20 Center Freq 2.357000000 GHz Avg Type: Log-Pwr TRACE Trig: Free Run #Atten: 30 dB PNO: Fast 😱 IFGain:Low DET P P P P Mkr2 2.402 026 GHz -4.891 dBm Ref Offset 0.5 dB Ref 0.11 dBm 10 dB/div Log 9.89 19.9 29.9 -39.9 -49.9 <u>59</u>. -69.9 79.9 89. Start 2.31000 GHz #Res BW 100 kHz Stop 2.40400 GHz Sweep 9.00 ms (1001 pts) #VBW 300 kHz 
 True
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 Tuu K

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UNCTION FUNCTION WIDTH -59.26 dBm -4.89 dBm 2.399 864 GHz 2.402 026 GHz STATUS SG

## 40 CH





## 6. POWER SPECTRAL DENSITY TEST

## 6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247), Subpart C |                        |                        |                          |        |  |  |
|--------------------------------|------------------------|------------------------|--------------------------|--------|--|--|
| Section                        | Test Item              | Limit                  | Frequency Range<br>(MHz) | Result |  |  |
| 15.247                         | Power Spectral Density | 8 dBm<br>(in any 3KHz) | 2400-2483.5              | PASS   |  |  |

## 6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: 100 kHz  $\ge$  RBW  $\ge$  3 kHz.
- 4. Set the VBW  $\geq$  3 x 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.

## 6.3 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
|     | ANALYZER |

#### 6.4 EUT OPERATION CONDITIONS

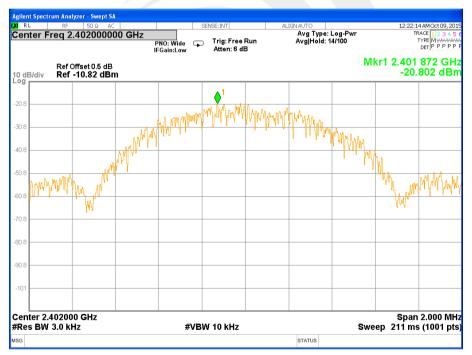
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



## 6.5 TEST RESULTS

| EUT :         | TABLET PC                 | Model Name :        | M10701  |  |  |
|---------------|---------------------------|---------------------|---------|--|--|
| Temperature : | <b>25</b> ℃               | Relative Humidity : | 60%     |  |  |
| Pressure :    | 1015 hPa                  | Test Voltage :      | DC 3.7V |  |  |
| Test Mode :   | TX Mode /CH01, CH20, CH40 |                     |         |  |  |

| Frequency | Power Density<br>(dBm) | Limit<br>(dBm) | Result |
|-----------|------------------------|----------------|--------|
| 2402 MHz  | -20.802                | 8              | PASS   |
| 2440 MHz  | -20.246                | 8              | PASS   |
| 2480 MHz  | -19.075                | 8              | PASS   |



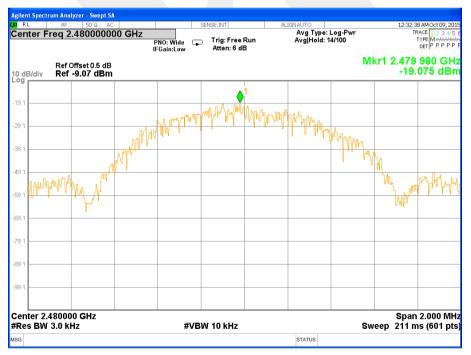
## TX CH01



#### TX CH20



## TX CH40





## 7. BANDWIDTH TEST

#### 7.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |           |                              |                          |        |
|---------------------------------|-----------|------------------------------|--------------------------|--------|
| Section                         | Test Item | Limit                        | Frequency Range<br>(MHz) | Result |
| 15.247(a)(2)                    | Bandwidth | >= 500KHz<br>(6dB bandwidth) | 2400-2483.5              | PASS   |

#### 7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.

#### 7.3 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
|     | ANALYZER |

## 7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

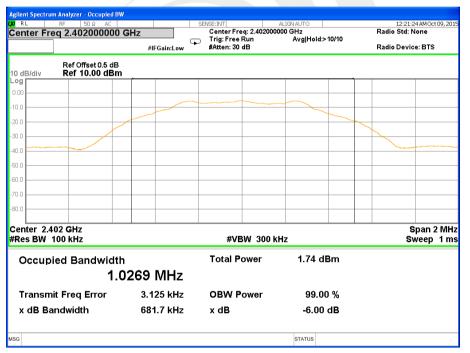


## 7.5 TEST RESULTS

| EUT :         | TABLET PC                 | Model Name :        | M10701  |
|---------------|---------------------------|---------------------|---------|
| Temperature : | <b>25</b> ℃               | Relative Humidity : | 60%     |
| Pressure :    | 1012 hPa                  | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX Mode /CH01, CH20, CH40 |                     |         |

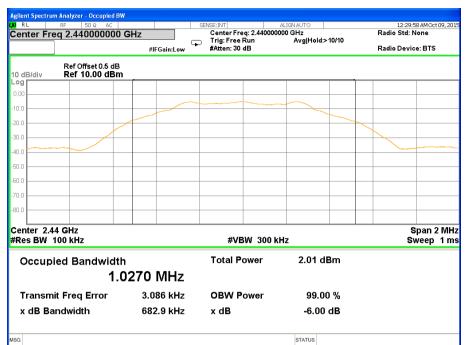
| Frequency | 6dB Bandwidth<br>(MHz) | Channel<br>Separation<br>(MHz) | Result |
|-----------|------------------------|--------------------------------|--------|
| 2402 MHz  | 0.682                  | >=500KHz                       | PASS   |
| 2440 MHz  | 0.683                  | >=500KHz                       | PASS   |
| 2480 MHz  | 0.685                  | >=500KHz                       | PASS   |

## **TX CH 01**

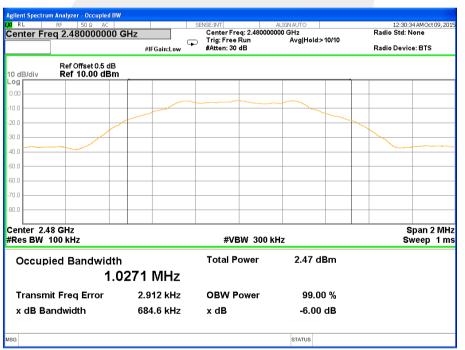




#### TX CH 20



## TX CH 40



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## 8. PEAK OUTPUT POWER TEST

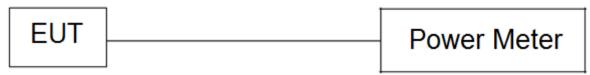
## 8.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247), Subpart C |                      |                 |                          |        |
|--------------------------------|----------------------|-----------------|--------------------------|--------|
| Section                        | Test Item            | Limit           | Frequency Range<br>(MHz) | Result |
| 15.247(b)(3)                   | Peak Output<br>Power | 1 watt or 30dBm | 2400-2483.5              | PASS   |

## 8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&Power meter

#### 8.3 TEST SETUP



#### **8.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



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## 8.5 TEST RESULTS

| EUT :         | TABLET PC                 | Model Name :        | M10701  |
|---------------|---------------------------|---------------------|---------|
| Temperature : | <b>25</b> ℃               | Relative Humidity : | 60%     |
| Pressure :    | 1012 hPa                  | Test Voltage :      | DC 3.7V |
| Test Mode :   | TX Mode /CH01, CH20, CH40 |                     |         |

| TX Mode     |           |                             |       |  |
|-------------|-----------|-----------------------------|-------|--|
| Test Channe | Frequency | Peak Conducted Output Power | LIMIT |  |
|             | (MHz)     | (dBm)                       | dBm   |  |
| CH01        | 2402      | -4.047                      | 30    |  |
| CH20        | 2440      | -3.874                      | 30    |  |
| CH40        | 2480      | -3.364                      | 30    |  |



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## 9. ANTENNA REQUIREMENT

#### 9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

## 9.2 EUT ANTENNA

The EUT antenna is Dipole Antenna. It comply with the standard requirement.



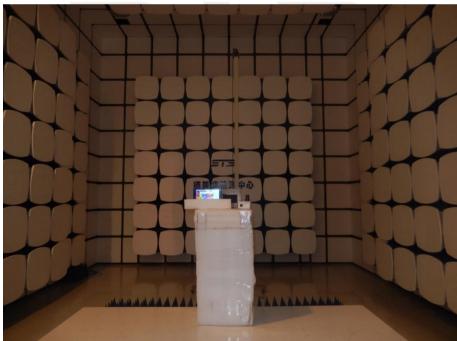
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## **Radiated Measurement Photos**





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## **Conducted Measurement Photos**



#### \* \* \* \* \* END OF THE REPORT \* \* \* \* \*

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