

FCC 47 CFR PART 15 SUBPART C TEST REPORT

For

Applicant: Outform Ltd.

R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao,

Futian, Shenzhen, China

Product Name: Retail Tablet

UID0350: RETAIL TABLET S, UID0354: RETAIL TABLET M,

Model Name: UID0350-XXX, UID0354-XXX (The first "X" is A-Z which stand for

the color, The second "X" is A-Z which stand for the country, the

third "X" is 0 or 1(0 is light color, 1 is dart color))

Brand Name: I-DISPLAY

FCC ID: Y34-UID0350

Report No.: MTE/EAH/E11121707

Date of Issue: Jan. 20, 2012

Issued by: Most Technology Service Co., Ltd.

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

Nanshan, Shenzhen, Guangdong, China

Tel: 86-755-8617 0306

Fax: 86-755-8617 0310

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1. VERIFICATION OF CONFORMITY

Equipment Under Test: Retail Tablet

Brand Name: I-DISPLAY

Model Number: UID0350: RETAIL TABLET S, UID0354: RETAIL TABLET M

UID0350-XXX, UID0354-XXX (The first "X" is A-Z which stand for the color,

Series Model Number: The second "X" is A-Z which stand for the country, the third "X" is 0 or 1(0 is

light color, 1 is dart color))

1. The series models are different in model name and size with the same

functions.

Difference description:

2. The size of "S" is 7 inch.

3. The size of "M" is 10 inch.

FCC ID: Y34-UID0350

Applicant: Outform Ltd.

R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao, Futian,

Shenzhen, China

Manufacturer: Outform Ltd.

R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao, Futian,

Shenzhen, China

Technical Standards: 47 CFR Part 15 Subpart C

File Number: MTE/EAH/E11121707

Date of test: Jan. 05-19, 2012

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

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

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

Prepared by (+ signature):

Dona Liu

Jan. 19, 20

Review by (+ signature):

Elva Wong

Jan. 19, 2012

Approved by (+ signature):

Yvette Zhou(Manager)

Jan. 20, 2012

2. GENERAL INFORMATION

2.1 Product Information

FCC ID: Y34-UID0350

| Retail Tablet |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| |
| I-DISPLAY |
| UID0350: RETAIL TABLET S, UID0354: RETAIL TABLET M |
| UID0350-XXX, UID0354-XXX(The first "X" is A-Z which stand for the color, The second "X" is A-Z which stand for the country, the third "X" is 0 or 1(0 is light color, 1 is dart color)) |
| The series models are different in model name and size with the same functions. The size of "S" is 7 inch. The size of "M" is 10 inch. |
| DC 9V by AC adapter (100-240V, 50/60Hz) |
| 2402MHz -2480MHz |
| FHSS(GFSK, Pi/4-DOPSK, 8-DPSK) |
| Output Port: Headphone Port, HDMI Port Input Port: SD Port, USB1 Port, USB2 Port, SIM Card, DC Power Port |
| Internal Fixed |
| 2.0 dBi |
| 1MHz |
| 79 |
| -20°C ~ 50°C |
| |

NOTE:

- 1. For a more detailed features description about the EUT, please refer to User's Manual.
- The USB1 Port was Playing function with USB Stock function, the USB2 Port was connected with the Mouse, Two USB Ports are without data exchange function, The HDMI Port was connected with LCD Monitor through Link Line.

2.2 OBJECTIVE

Perform FCC Part 15 Subpart B tests for FCC Marking.

2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

| No. | Section | Description | Result | Date of Test |
|-----|-----------|------------------------------------|--------|---------------|
| 1 | 15.249(a) | Spurious Emission | PASS | Jan. 19, 2012 |
| 2 | 15.249(a) | Band Edge | PASS | Jan. 19, 2012 |
| 3 | 15.207 | Power Line Conducted Emission Test | PASS | Jan. 19, 2012 |

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

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

2.4 ENVIRONMENTAL CONDITIONS

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

Temperature: 15-35°CHumidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3. TEST FACILITY 3.1TEST FACILITY

FCC ID: Y34-UID0350

Test Site: Most Technology Service Co.,ltd

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

Guangdong, China

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

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR

16 requirements.

The FCC Registration Number is 490827.

The IC Registration Number is 46405-7103.

The CNAS Registration Number is CNAS L3573.

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

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

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16

requirements that meet industry regulatory agency and accreditation agency

requirement.

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

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire

area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

EUT Function and Test Mode

The EUT has been tested under normal operating (TX) and standby (RX) condition.

All normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report under GFSK modulation type.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2009.

3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|---------------------|-----------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | $4.5 - 5.15$ $5.35 - 5.46$ $7.25 - 7.75$ $8.025 - 8.5$ $9.0 - 9.2$ $9.3 - 9.5$ $10.6 - 12.7$ $13.25 - 13.4$ $14.47 - 14.5$ $15.35 - 16.2$ $17.7 - 21.4$ $22.01 - 23.12$ $23.6 - 24.0$ $31.2 - 31.8$ $36.43 - 36.5$ $\binom{2}{}$ |
| 10.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2655 - 2900 | |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | |
| 13.36 - 13.41 | 322 - 335.4 | 3600 - 4400 | |

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6

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4. SETUP OF EQUIPMENT UNDER TEST

4.1 SUPPORT EQUIPMENT

FCC ID: Y34-UID0350

| Device Type | Brand | Model | Series No. | Data Cable | Power Cord |
|-------------|-------|-------|------------|---------------------|------------|
| Headphone | AKG | K450 | N/A | 1.1M Un-Shielded | |

Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

FCC ID: Y34-UID0350

4.2 TEST EQUIPMENT LIST

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

| No. | Equipment | Manufacturer | Model No. | S/N | Calculator due date |
|-----|-----------------------------------------|-------------------|-------------------|-------------|---------------------|
| 1 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2012/03/14 |
| 2 | L.I.S.N. | Rohde & Schwarz | ENV216 | 100093 | 2012/03/14 |
| 3 | Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | 2012/03/14 |
| 4 | Terminator | Hubersuhner | 50Ω | No.1 | 2012/03/14 |
| 5 | RF Cable | SchwarzBeck | N/A | No.1 | 2012/03/14 |
| 6 | Test Receiver | Rohde & Schwarz | ESPI | 101202 | 2012/03/14 |
| 7 | Bilog Antenna | SCHWARZBECK | BBHA9120D | D69250 | 2012/03/14 |
| 8 | Cable | Resenberger | N/A | NO.1 | 2012/03/14 |
| 9 | Cable | SchwarzBeck | N/A | NO.2 | 2012/03/14 |
| 10 | Cable | SchwarzBeck | N/A | NO.3 | 2012/03/14 |
| 11 | DC Power Filter | DuoJi | DL2×30B | N/A | 2012/03/14 |
| 12 | Single Phase Power Line Filter | DuoJi | FNF 202B30 | N/A | 2012/03/14 |
| 13 | 3 Phase Power Line Filter | DuoJi | FNF 402B30 | N/A | 2012/03/14 |
| 14 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2012/03/14 |
| 15 | Absorbing Clamp | Luthi | MDS21 | 3635 | 2012/03/14 |
| 16 | Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | 2012/03/14 |
| 17 | AC Power Source | Kikusui | AC40MA | LM003232 | 2012/03/14 |
| 18 | Test Analyzer | Kikusui | KHA1000 | LM003720 | 2012/03/14 |
| 19 | Line Impendence Network | Kikusui | LIN40MA- PCR-L | LM002352 | 2012/03/14 |
| 20 | ESD Tester | Kikusui | KES4021 | LM003537 | 2012/03/14 |
| 21 | EMCPRO System | EM Test | UCS-500-M4 | V0648102026 | 2012/03/14 |
| 22 | Signal Generator | IFR | 2032 | 203002/100 | 2012/03/14 |
| 23 | Amplifier | A&R | 150W1000 | 301584 | 2012/03/14 |
| 24 | CDN | FCC | FCC-801-M2-25 | 47 | 2012/03/14 |
| 25 | CDN | FCC | FCC-801-M3-25 | 107 | 2012/03/14 |
| 26 | EM Injection Clamp | FCC | F-203I-23mm | 403 | 2012/03/14 |
| 27 | RF Cable | MIYAZAKI | N/A | No.1/No.2 | 2012/03/14 |
| 28 | Universal Radio Communication Tester | ROHDE&SCHWARZ | CMU200 | 0304789 | 2012/03/14 |
| 29 | Telecommunication Antenna | European Antennas | PSA 75301R/170 | 0304213 | 2012/03/14 |
| 30 | Telecommunication Test Equipment | R&S | CMU200 | N/A | 2012/03/14 |
| 31 | 8 Loop Antenna | ARA | PLA-1030/B | 1029 | 2012/02/19 |

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

5. 47 CFR Part 15C 15.249 Requirements 5.1 SPURIOUS EMISSION TEST

According to FCC section 15.249(a):

FCC ID: Y34-UID0350

5.1.1 REQUIREMENT

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental Frequency (MHz) | Field Strength of Fundamental (mV/m) | Field Strength of Harmonics (μV/m) |
|-----------------------------|--------------------------------------|------------------------------------|
| 902-928 | 50 | 500 |
| 2400-2483.5 | 50 | 500 |
| 5725-5875 | 50 | 500 |
| 24000-24250 | 250 | 2500 |

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

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

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

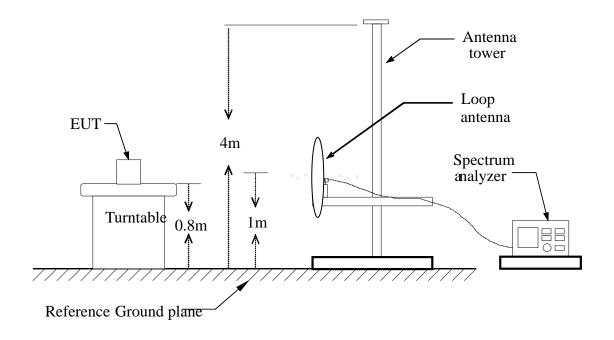
| Frequency (MHz) | Field Strength (μV/m) | Measurement Distance (m) | | |
|-----------------|-----------------------|--------------------------|--|--|
| 30 - 88 | 100 | 3 | | |
| 88 - 216 | 150 | 3 | | |
| 216 - 960 | 200 | 3 | | |
| Above 960 | 500 | 3 | | |

FCC ID: Y34-UID0350

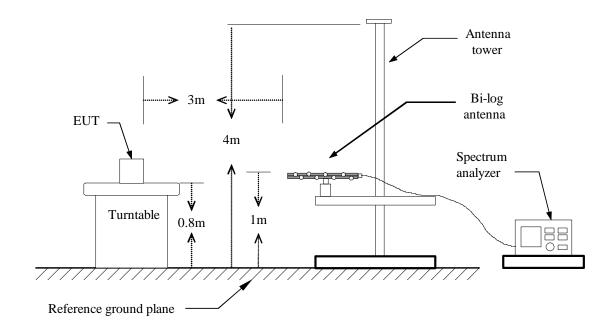
5.1.2 TEST DESCRIPTION

Test Setup:

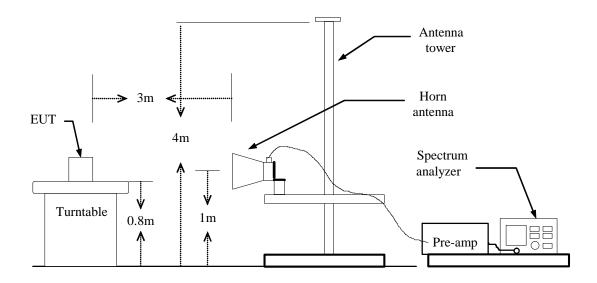
From 9KHz to 30MHz:



Blow 1GHz:



Above 1GHz:



5.1.3 TEST DESCRIPTION

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

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

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

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

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

5.1.4 TEST RESULT

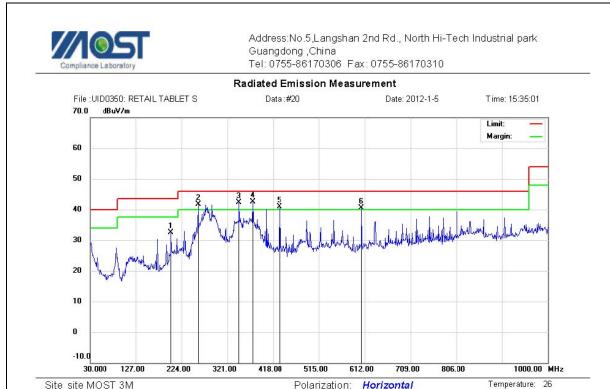
The Bluetooth model was carried out for GFSK, Pi/4-DOPSK and 8-DPSK modulation types, GFSK Low channel modulation type was the worst case condition, The test data was shown on the summary data page.

Form 9 KHz to 30MHz:

| Freq. (MHz) | Ant. Pol H/V | Peak Reading | AV Reading | Ant. / CL CF | Actu | Actual Fs | | AV Limit | AV Margin |
|----------------|-----------------|-----------------|---------------|-----------------|----------|-----------|----------|-------------|--------------|
| | | (dBuV) | (dBuV) | (dB) | Peak | AV | (dBuV/m) | (dBuV/m) | (dB) |
| | | | | | (dBuV/m) | (dBuV/m) | | | |
| N/A | Н | | | | | | | | >20 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| N/A | V | | | | | | | | >20 |
| | | | | | | | | | |
| | | | | | | | | | |

-Note: No test data was detected in below 30MHz.

Below 1GHz



Site site MOST 3M

Limit: FCC Part 15 B 3M Radiation EUT: Retail Tablet

M/N: UID0350: RETAIL TABLET S

Mode: Bluetooth Mode

Note:

Polarization: Horizontal Power: DC 9V Adapter AC 120V/60Hz Humidity:

Distance:

61 %

| | No. | MŁ | k. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|---|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| - | | | MHz | dBu∨ | dB | dBu∨/m | dBuV/m | dB | Detector | cm | degree | Comment |
| - | 1 | | 201.6899 | 15.11 | 17.32 | 32.43 | 43.50 | -11.07 | QP | | | |
| - | 2 | ļ | 258.9200 | 24.08 | 17.56 | 41.64 | 46.00 | -4.36 | QP | | | |
| _ | 3 | ļ | 345.2500 | 24.96 | 17.42 | 42.38 | 46.00 | -3.62 | QP | | | |
| - | 4 | * | 374.3500 | 24.26 | 18.24 | 42.50 | 46.00 | -3.50 | QP | | | |
| _ | 5 | ļ | 431.5800 | 20.61 | 20.32 | 40.93 | 46.00 | -5.07 | QP | | | |
| - | 6 | ļ | 605.2100 | 17.35 | 23.20 | 40.55 | 46.00 | -5.45 | QP | | | |

Engineer Signature: Allen

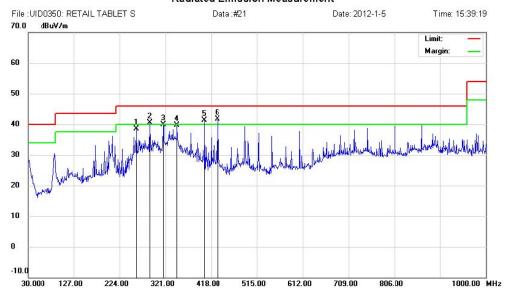
^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site site MOST 3M

Limit: FCC Part 15 B 3M Radiation

EUT: Retail Tablet

M/N: UID0350: RETAIL TABLET S

Mode: Bluetooth Mode

Note:

Polarization: Vertical Temperature: 26
Power: DC 9V Adapter AC 120V/60Hz Humidity: 61 %

Distance:

| No | M | k. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|----|---|----|--------|------------------|-------------------|------------------|--------|-------|----------|-------------------|-----------------|---------|
| | | | MHz | dBu∨ | dB | dBu∀/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 25 | 8.9200 | 20.96 | 17.56 | 38.52 | 46.00 | -7.48 | QΡ | | | |
| 2 | ļ | 28 | 8.0200 | 21.04 | 19.42 | 40.46 | 46.00 | -5.54 | QΡ | | | |
| 3 | | 31 | 6.1500 | 23.15 | 16.85 | 40.00 | 46.00 | -6.00 | QP | | | |
| 4 | | 34 | 5.2500 | 22.26 | 17.42 | 39.68 | 46.00 | -6.32 | QΡ | | | |
| 5 | ļ | 40 | 3.4500 | 22.57 | 18.77 | 41.34 | 46.00 | -4.66 | QP | | | |
| 6 | * | 43 | 1.5800 | 21.34 | 20.32 | 41.66 | 46.00 | -4.34 | QΡ | | | |

Engineer Signature:

Allen

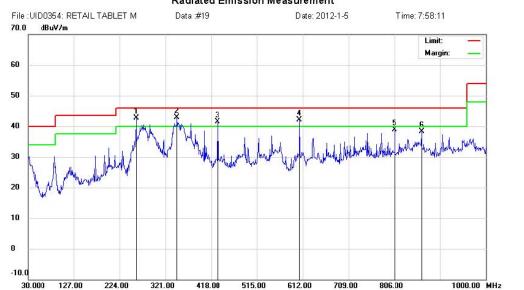
^{*:}Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site site MOST 3M

Limit: FCC Part 15 B 3M Radiation

EUT: Retail Tablet

M/N: UID0354: RETAIL TABLET M

Mode: Bluetooth Mode

Note:

Polarization: *Horizontal*Power: DC 9V Adapter AC 120V/60Hz

Temperature: 26 %60Hz Humidity: 61 %

Distance:

| No | M | k. F | req. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|----|---|-------|------|------------------|-------------------|------------------|--------|-------|----------|-------------------|-----------------|---------|
| | | N | 1Hz | dBu∨ | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | ļ | 258.9 | 200 | 25.08 | 17.56 | 42.64 | 46.00 | -3.36 | QP | | | |
| 2 | * | 345.2 | 500 | 25.46 | 17.42 | 42.88 | 46.00 | -3.12 | QP | | | |
| 3 | ļ | 431.5 | 800 | 21.11 | 20.32 | 41.43 | 46.00 | -4.57 | QP | | | |
| 4 | ļ | 605.2 | 100 | 18.85 | 23.20 | 42.05 | 46.00 | -3.95 | QP | | | |
| 5 | | 806.9 | 699 | 12.96 | 25.90 | 38.86 | 46.00 | -7.14 | QP | | | |
| 6 | | 864.2 | 000 | 11.20 | 27.04 | 38.24 | 46.00 | -7.76 | QP | | | |

Engineer Signature:

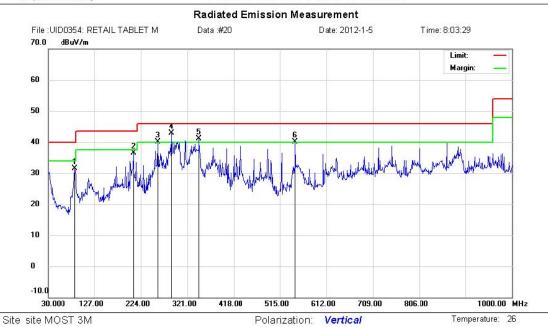
Allen

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



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Power: DC 9V Adapter AC 120V/60Hz

Distance:

Limit: FCC Part 15 B 3M Radiation

EUT: Retail Tablet

M/N: UID0354: RETAIL TABLET M

Mode: Bluetooth Mode

Note:

| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|----|----------|------------------|-------------------|------------------|--------|-------|----------|-------------------|-----------------|---------|
| | | MHz | dBu∨ | dB | dBu∨/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 86.2600 | 20.15 | 11.33 | 31.48 | 40.00 | -8.52 | QР | | | |
| 2 | | 208.4800 | 20.24 | 16.28 | 36.52 | 43.50 | -6.98 | QP | | | |
| 3 | İ | 258.9200 | 22.46 | 17.56 | 40.02 | 46.00 | -5.98 | QP | | | |
| 4 | * | 288.0200 | 23.54 | 19.42 | 42.96 | 46.00 | -3.04 | QP | | | |
| 5 | ļ | 345.2500 | 23.76 | 17.42 | 41.18 | 46.00 | -4.82 | QP | | | |
| 6 | I | 547.0099 | 17.80 | 22.38 | 40.18 | 46.00 | -5.82 | QP | | | |

Engineer Signature: Allen

61 %

Humidity:

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

Above 1 GHz

Operation Mode: GFSK Mode/CH Low Test Date: Jan. 19, 2012

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

| Freq. | Ant. Pol | Peak | AV | Ant. / CL | Actu | al Fs | Peak | AV | AV |
|--------|-------------|---------|---------|-----------|----------|----------|----------|----------|--------|
| (MHz) | H/V | Reading | Reading | CF | | | Limit | Limit | Margin |
| | | (dBuV) | (dBuV) | (dB) | Peak | AV | (dBuV/m) | (dBuV/m) | (dB) |
| | | | | | (dBuV/m) | (dBuV/m) | | | |
| 2402.0 | Н | 94.36 | 70.51 | 9.07 | 103.43 | 79.58 | 114.00 | 94.00 | -14.42 |
| | | | | | | | | | |
| 1612.5 | Н | 54.29 | 33.58 | 6.05 | 60.34 | 39.63 | 74.00 | 54.00 | -14.37 |
| 4815.0 | Н | 47.98 | 25.06 | 17.05 | 65.04 | 42.11 | 74.00 | 54.00 | -11.89 |
| N/A | | | | | | | | | >20 |
| | | | | | | | | | |
| 2402.0 | V | 93.27 | 68.49 | 9.07 | 102.34 | 77.56 | 114.00 | 94.00 | -16.44 |
| | | | | | | | | | |
| 1612.5 | V | 52.41 | 31.08 | 6.05 | 58.46 | 38.13 | 74.00 | 54.00 | -15.87 |
| 4815.0 | V | 46.86 | 26.15 | 17.05 | 64.91 | 49.20 | 74.00 | 54.00 | -10.80 |
| N/A | V | | | | | | | | |
| | | | | | | | | | |

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = auto.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto

Operation Mode: GFSK Mode/CH Mid Test Date: Jan. 19, 2012

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

| Freq. | Ant. Pol | Peak | AV | Ant. / CL | Actu | al Fs | Peak | AV | AV |
|--------|-------------|---------|---------|-----------|----------|----------|----------|----------|--------|
| (MHz) | H/V | Reading | Reading | CF | | | Limit | Limit | Margin |
| | | (dBuV) | (dBuV) | (dB) | Peak | AV | (dBuV/m) | (dBuV/m) | (dB) |
| | | | | | (dBuV/m) | (dBuV/m) | | | |
| 2441.0 | Н | 92.64 | 71.45 | 9.07 | 101.71 | 80.52 | 114.00 | 94.00 | -13.48 |
| | | | | | | | | | |
| 1612.5 | Н | 52.78 | 30.49 | 6.05 | 58.83 | 36.54 | 74.00 | 54.00 | -17.46 |
| 4815.0 | Н | 45.62 | 24.02 | 17.05 | 62.67 | 41.07 | 74.00 | 54.00 | -12.93 |
| N/A | | | | | | | | | >20 |
| | | | | | | | | | |
| 2441.0 | V | 91.82 | 69.27 | 9.07 | 100.89 | 78.34 | 114.00 | 94.00 | -15.66 |
| | | | | | | | | | |
| 1612.5 | V | 50.10 | 32.95 | 6.05 | 56.15 | 39.00 | 74.00 | 54.00 | -15.00 |
| 4815.0 | V | 43.35 | 27.84 | 17.05 | 60.40 | 44.89 | 74.00 | 54.00 | -9.11 |
| N/A | V | | | | | | | | >20 |
| | | | | | | | | | |

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = auto.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto.

Operation Mode: GFSK Mode/CH High Test Date: Jan. 19, 2012

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

| Freq. | Ant. Pol | Peak | AV | Ant. / CL | Actu | al Fs | Peak | AV | AV |
|--------|-------------|---------|---------|-----------|----------|----------|----------|----------|--------|
| (MHz) | H/V | Reading | Reading | CF | | | Limit | Limit | Margin |
| | | (dBuV) | (dBuV) | (dB) | Peak | AV | (dBuV/m) | (dBuV/m) | (dB) |
| | | | | | (dBuV/m) | (dBuV/m) | | | |
| 2480.0 | Н | 90.04 | 68.72 | 9.07 | 99.11 | 77.79 | 114.00 | 94.00 | -16.21 |
| | | | | | | | | | |
| 1612.5 | Н | 49.62 | 28.16 | 6.05 | 55.67 | 34.21 | 74.00 | 54.00 | -19.79 |
| 4815.0 | Н | 41.34 | 19.46 | 17.05 | 61.39 | 37.51 | 74.00 | 54.00 | -16.49 |
| N/A | | | | | | | | | >20 |
| | | | | | | | | | |
| 2480.0 | V | 89.58 | 67.82 | 9.07 | 98.65 | 76.89 | 114.00 | 94.00 | -17.11 |
| | | | | | | | | | |
| 1612.5 | V | 48.27 | 27.51 | 6.05 | 54.32 | 33.56 | 74.00 | 54.00 | -20.44 |
| 4815.0 | V | 47.82 | 26.81 | 17.05 | 64.87 | 43.86 | 74.00 | 54.00 | -10.14 |
| N/A | V | | | | | | | | >20 |
| | | | | | | | | | |

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = auto.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto.

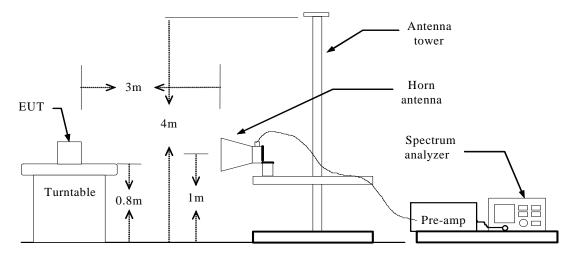
FCC ID: Y34-UID0350

5.2 BAND EDGE

5.2.1 REQUIREMENT

According to FCC section 15.249(a), 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.

5.2.2 TEST DESCRIPTION

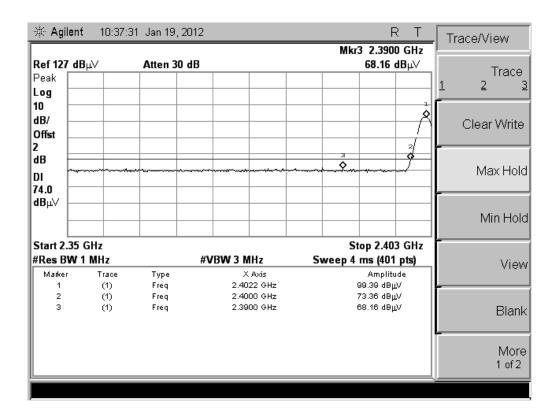


5.2.3TEST RESULT

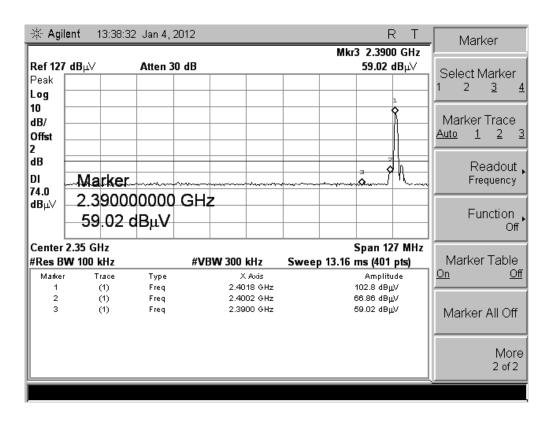
The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

| | | | | Test Result Highest Emission (dBuv/m) | | | | | |
|-----------|---------|-----------------------------|----------------|---------------------------------------|---------|------------|---------|--|--|
| Test | Mode | Channel Marked Frequency | Limit (dBuv/m) | Ver | tical | Horizontal | | | |
| | | . , | | Peak | Average | Peak | Average | | |
| | Low | 2390MHz | | 59.02 | 36.25 | 68.16 | 47.45 | | |
| Pluotooth | Channel | 2400MHz | 74(Peak) | 66.86 | 46.38 | 73.36 | 53.78 | | |
| Bluetooth | High | 2483.5MHz | 54(Average) | 69.77 | 48.75 | 60.56 | 40.69 | | |
| | Channel | 2500MHz | | 60.29 | 39.08 | 67.69 | 45.47 | | |

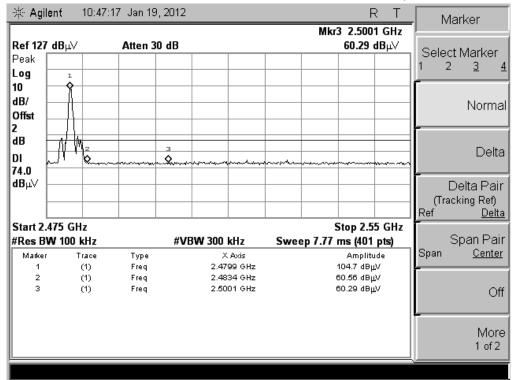
Test Plot:



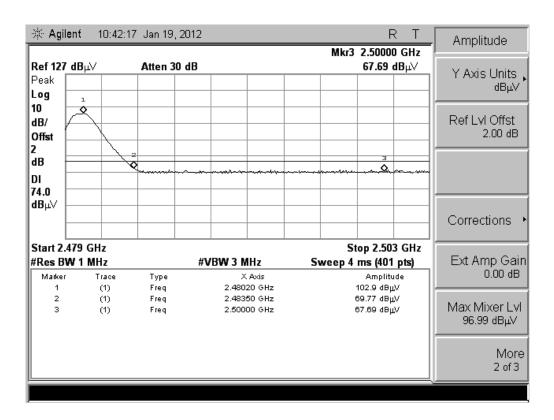
(CH Low, Horizontal)



(CH Low, Vertical)



(CH High, Horizontal)



(CH High, Vertical)

5.3 LINE CONDUCTED EMISSION TEST

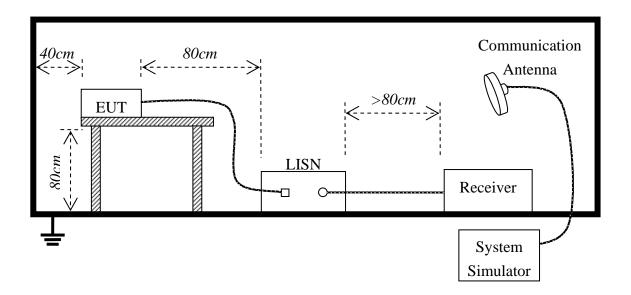
5.3.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency | Maximum RF | Maximum RF Line Voltage | | | | | | |
|---------------|-------------|-------------------------|--|--|--|--|--|--|
| Frequency | Q.P.(dBuV) | Average(dBuV) | | | | | | |
| 150kHz-500kHz | 66-56 | 56-46 | | | | | | |
| 500kHz-5MHz | 56 | 46 | | | | | | |
| 5MHz-30MHz | 60 | 50 | | | | | | |

^{**}Note: 1. the lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.3.2. BLOCK DIAGRAM OF TEST SETUP



5.3.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per FCC Part 15.

FCC ID: Y34-UID0350

- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.

5.3.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

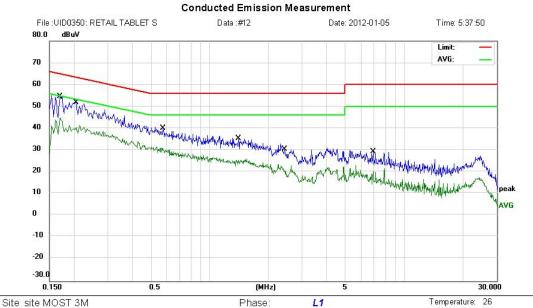
The Bluetooth model was carried out for GFSK, Pi/4-DOPSK and 8-DPSK modulation types, GFSK Low channel modulation type was the worst case condition, The test data was shown on the summary data page.

5.3.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Power: DC 9V Adapter AC 120V/60Hz

Humidity: 60 %

Limit: FCC Part15 B Class B QP

EUT: Retail Tablet

M/N: UID0350: RETAIL TABLET S

Mode: Bluetooth Mode

Note:

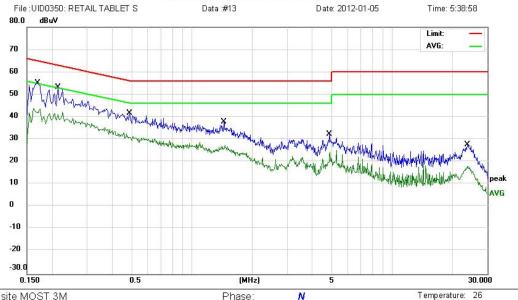
| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBu∨ | dB | dBu∀ | dBu∨ | dB | Detector | Comment |
| 1 * | 0.1700 | 44.43 | 10.20 | 54.63 | 64.96 | -10.33 | QР | |
| 2 | 0.2060 | 39.97 | 11.96 | 51.93 | 63.36 | -11.43 | QP | |
| 3 | 0.5780 | 30.12 | 10.00 | 40.12 | 56.00 | -15.88 | QP | |
| 4 | 1.4100 | 25.62 | 9.59 | 35.21 | 56.00 | -20.79 | QP | |
| 5 | 2.4380 | 21.01 | 9.44 | 30.45 | 56.00 | -25.55 | QP | |
| 6 | 6.9298 | 18.47 | 10.84 | 29.31 | 60.00 | -30.69 | QP | |

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



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Power: DC 9V Adapter AC 120V/60Hz

Humidity: 60 %

Site site MOST 3M

Limit: FCC Part15 B Class B QP

EUT: Retail Tablet

M/N: UID0350: RETAIL TABLET S

Mode: Bluetooth Mode

Note:

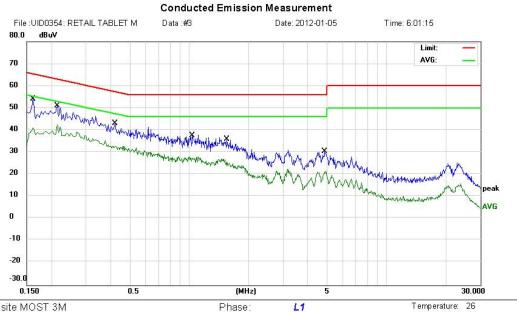
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBu∨ | dB | dBu∨ | dBu∨ | dB | Detector | Comment |
| 1 | * | 0.1700 | 44.93 | 10.20 | 55.13 | 64.96 | -9.83 | QP | |
| 2 | | 0.2140 | 41.16 | 11.91 | 53.07 | 63.04 | -9.97 | QP | |
| 3 | | 0.4900 | 31.54 | 10.07 | 41.61 | 56.17 | -14.56 | QP | |
| 4 | | 1.4460 | 28.26 | 9.55 | 37.81 | 56.00 | -18.19 | QP | |
| 5 | | 4.8939 | 20.34 | 11.89 | 32.23 | 56.00 | -23.77 | QP | |
| 6 | | 23.7660 | 18.56 | 9.00 | 27.56 | 60.00 | -32.44 | QР | |

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



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Power: DC 9V Adapter AC 120V/60Hz

Humidity: 60 %

Site site MOST 3M

Limit: FCC Part15 B Class B QP

EUT: Retail Tablet

M/N: UID0354: RETAIL TABLET M

Mode: Bluetooth Mode

Note:

| _ | | | | | | | | | | |
|---|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
| | | | MHz | dBu∨ | dB | dBu∀ | dBu∀ | dB | Detector | Comment |
| _ | 1 | * | 0.1620 | 44.25 | 9.72 | 53.97 | 65.36 | -11.39 | QP | |
| | 2 | | 0.2140 | 39.04 | 11.91 | 50.95 | 63.04 | -12.09 | QP | |
| | 3 | | 0.4220 | 32.49 | 10.52 | 43.01 | 57.41 | -14.40 | QP | |
| _ | 4 | | 1.0420 | 27.47 | 9.96 | 37.43 | 56.00 | -18.57 | QP | |
| _ | 5 | | 1.5580 | 26.35 | 9.44 | 35.79 | 56.00 | -20.21 | QP | |
| | 6 | | 4.8939 | 18.52 | 11.89 | 30.41 | 56.00 | -25.59 | QР | |

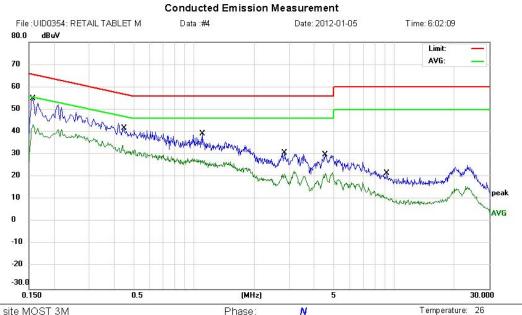
Engineer Signature: Allen

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



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Power: DC 9V Adapter AC 120V/60Hz

Humidity: 60 %

Site site MOST 3M

Limit: FCC Part15 B Class B QP

EUT: Retail Tablet

M/N: UID0354: RETAIL TABLET M

Mode: Bluetooth Mode

Note:

| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBu∨ | dB | dBu√ | dBu∀ | dB | Detector | Comment |
| 1 * | 0.1580 | 45.47 | 9.49 | 54.96 | 65.56 | -10.60 | QP | |
| 2 | 0.4500 | 31.18 | 10.33 | 41.51 | 56.87 | -15.36 | QP | |
| 3 | 1.1060 | 29.16 | 9.89 | 39.05 | 56.00 | -16.95 | QP | |
| 4 | 2.8460 | 20.92 | 9.85 | 30.77 | 56.00 | -25.23 | QP | |
| 5 | 4.5379 | 18.31 | 11.54 | 29.85 | 56.00 | -26.15 | QР | |
| 6 | 9.2379 | 12.19 | 9.46 | 21.65 | 60.00 | -38.35 | QP | |

Engineer Signature: Allen

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

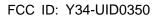
APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

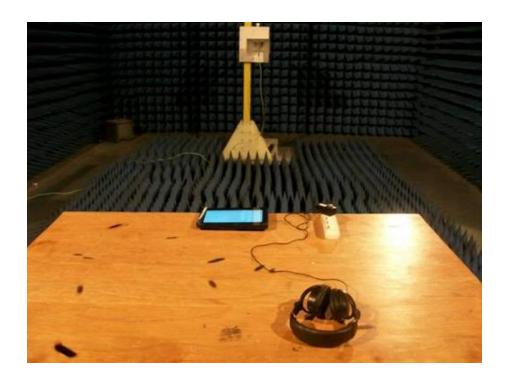
FCC ID: Y34-UID0350



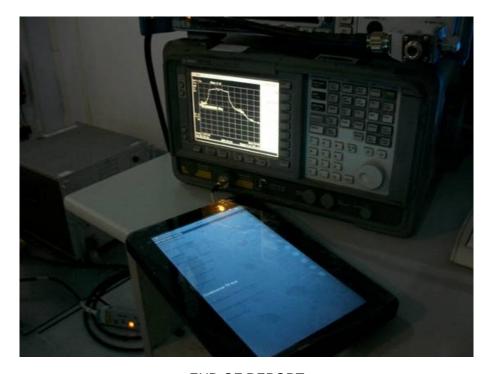
RE TEST SETUP







SPURIOUS EMISSION TEST SETUP



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