

TECHNICAL CONSULTING
SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD



ISO/IEC17025Accredited Lab.

Report No:
File reference No:

FCC 1301062-02
2013-01-18

Applicant: GLOBAL CIRCUIT(SHENZHEN)CO., LTD

Product: 7inch Tablet PC

Model No: L70C, L7X(0-9)C-XX(A-Z/0-9)

Trademark: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung
Manager

Dated: Jan 18, 2013

**Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.

Tel (755) 83448688

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.:899988.

IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration No.: IC 5205A-02.

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Test Report Conclusion

Content

| | | |
|------------|---|----|
| 1.0 | General Details | 4 |
| 1.1 | Test Lab Details | 4 |
| 1.2 | Applicant Details | 4 |
| 1.3 | Description of EUT | 4 |
| 1.4 | Submitted Sample | 4 |
| 1.5 | Test Duration | 4 |
| 1.6 | Test Uncertainty | 4 |
| 1.7 | Test By | 5 |
| 2.0 | List of Measurement Equipment | 5 |
| 3.0 | Technical Details | 7 |
| 3.1 | Summary of Test Results | 7 |
| 3.2 | Test Standards | 7 |
| 4.0 | EUT Modification | 7 |
| 5.0 | Power Line Conducted Emission Test | 8 |
| 5.1 | Schematics of the Test | 8 |
| 5.2 | Test Method and Test Procedure | 8 |
| 5.3 | Configuration of the EUT | 8 |
| 5.4 | EUT Operating Condition | 9 |
| 5.5 | Conducted Emission Limit | 9 |
| 5.6 | Test Result | 9 |
| 6.0 | Radiated Emission test | 12 |
| 6.1 | Test Method and Test Procedure | 12 |
| 6.2 | Configuration of the EUT | 12 |
| 6.3 | EUT Operation Condition | 12 |
| 6.4 | Radiated Emission Limit | 13 |
| 7.0 | 20dB Bandwidth Measurement | 22 |
| 8.0 | Maximum Peak Output Power | 26 |
| 9.0 | Carrier Frequency Separation | 28 |
| 10.0 | Number of Hopping Channel | 31 |
| 11.0 | Time of Occupancy (Dwell Time) | 33 |
| 12.0 | Out of Band Measurement | 38 |
| 13.0 | Antenna Requirement | 43 |
| 14.0 | FCC Label | 44 |
| 15.0 | Photo of Test Setup and EUT View | 45 |

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 899988
For 3m & 10 m OATS
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205A-02
For 3m & 10 m OATS

1.2 Applicant Details

Applicant: GLOBAL CIRCUIT(SHENZHEN)CO., LTD
Address: Floor#2-3, Baoyunda Building#2, Qianjin Road#2, Bao`an, Shenzhen, China
Telephone: 0755-88367229
Fax: 0755-83999898

1.3 Description of EUT

Product: 7inch Tablet PC
Manufacturer: GLOBAL CIRCUIT(SHENZHEN)CO., LTD
Address: Floor#2-3, Baoyunda Building#2, Qianjin Road#2, Bao`an, Shenzhen, China
Brand Name: N/A
Model Number: L70C
Additional Model Name: L7X(0-9)C-XX(A-Z/0-9)
Additional Trade Name: N/A
Rating: Input: DC 5V
Power Supply: N/A
Type of Modulation: FHSS
Frequency range: 2402-2480MHz
Number of Channel: 79
Frequency Selection: By software
Antenna type: Integral Antenna with maximum gain 2.0dBi

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2013-01-08 to 2012-01-18

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

Terry Tang

The sample tested by _____

Print Name: Terry Tang

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| 2.0 | Test Equipments | | | | |
|---------------------|-----------------|------------|-----------------------|--------------|------------|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | ROHDE&SCHWARZ | ESPI 3 | 100379 | 2012-04-21 | 2013-04-20 |
| TWO Line-V-NETW | ROHDE&SCHWARZ | EZH3-Z5 | 100294 | 2012-04-21 | 2013-04-20 |
| TWO Line-V-NETW | ROHDE&SCHWARZ | EZH3-Z5 | 100253 | 2012-04-21 | 2013-04-20 |
| Ultra Broadband ANT | ROHDE&SCHWARZ | HL562 | 100157 | 2012-04-21 | 2013-04-20 |
| ESDV Test Receiver | ROHDE&SCHWARZ | ESDV | 100008 | 2012-04-21 | 2013-04-20 |
| Impuls-Begrenzer | ROHDE&SCHWARZ | ESH3-Z2 | 100281 | 2012-04-21 | 2013-04-20 |
| System Controller | CT | SC100 | - | -- | -- |
| Printer | EPSON | PHOTO EX3 | CFNH234850 | -- | -- |
| Computer | IBM | 8434 | 1S8434KCE99BLXL O* | - | - |
| Loop Antenna | EMCO | 6502 | 00042960 | 2012-04-21 | 2013-04-20 |
| ESPI Test Receiver | ROHDE&SCHWARZ | ESI26 | 838786/013 | 2012-04-21 | 2013-04-20 |
| 3m OATS | -- | -- | N/A | 2012-04-21 | 2013-04-20 |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170265 | 2012-04-21 | 2013-04-20 |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-631 | 2012-04-21 | 2013-04-20 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2012-04-21 | 2013-04-20 |
| Power sensor | Anritsu | MA2491A | 32263 | 2012-04-21 | 2013-04-20 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2012-04-21 | 2013-04-20 |
| LISN | AFJ | LS16C | 10010947251 | 2012-04-21 | 2013-04-20 |
| LISN (Three Phase) | Schwarebeck | NSLK 8126 | 8126453 | 2012-04-21 | 2013-04-20 |
| 9*6*6 Anechoic | -- | -- | N/A | 2012-04-21 | 2013-04-20 |
| EMI Test Receiver | RS | ESCS30 | 100139 | 2012-04-21 | 2013-04-20 |
| LISN | AFJ | LS16C | 10010947251 | 2012-04-21 | 2013-04-20 |
| LISN (Three Phase) | Schwarebeck | NSLK 8126 | 8126453 | 2012-04-21 | 2013-04-20 |

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3.0 Technical Details

3.1 Summary of test results

| The EUT has been tested according to the following specifications: | | | |
|--|--|--------|----------|
| Requirement | CFR 47 Section | Result | Notes |
| Antenna Requirement | 15.203, 15.247(b)(4) | PASS | Complies |
| Maximum Peak Out Power | 15.247 (b)(1), (4) | PASS | Complies |
| Carrier Frequency Separation | 15.247(a)(1) | PASS | Complies |
| 20dB Channel Bandwidth | 15.247 (a)(1) | PASS | Complies |
| Number of Hopping Channels | 15.247(a)(iii), 15.247(b)(1) | PASS | Complies |
| Time of Occupancy (Dwell Time) | 15.247(a)(iii) | PASS | Complies |
| Spurious Emission, Band Edge, and Restricted bands | 15.247(d),15.205(a), 15.209 (a),15.109 | PASS | Complies |
| Conducted Emissions | 15.207(a), 15.107 | PASS | Complies |
| RF Exposure | 15.247(i), 1.1307(b)(1) | PASS | Complies |

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

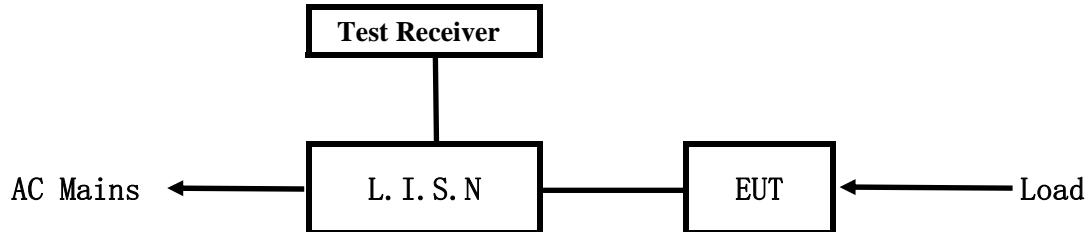
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

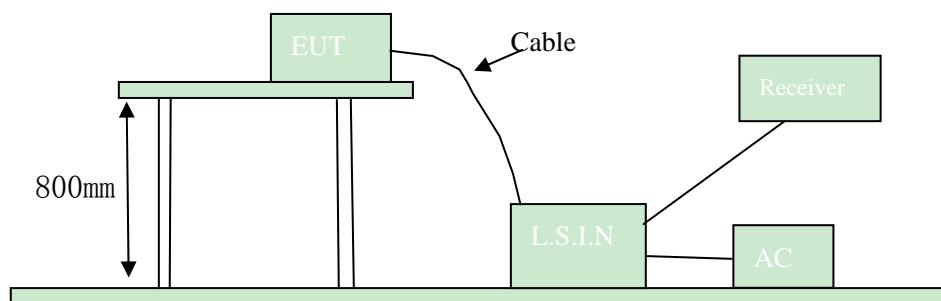


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

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A. EUT

| Device | Manufacturer | Model | FCC ID |
|-----------------|--------------------------------------|--------------------------------|-------------------|
| 7inch Tablet PC | GLOBAL CIRCUIT(SHENZHEN) CO., LTD | L70C, L7X(0-9)C-XX(A-Z/0-9) | P7U760RB-TBDB763B |

B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A | | | |

C. Peripherals

| Device | Manufacturer | Model | FCC ID/DOC | Cable |
|--------|--------------|-------|------------|-------|
| N/A | | | | |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

- A Setup the EUT and simulators as shown on follow
B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107, 15.207 and RSS-210

| Frequency (MHz) | Class A Limits (dB μ V) | | Class B Limits (dB μ V) | |
|--------------------|-----------------------------|---------------|-----------------------------|---------------|
| | Quasi-peak Level | Average Level | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 79.0 | 66.0 | 66.0~56.0* | 56.0~46.0* |
| 0.50 ~ 5.00 | 73.0 | 60.0 | 56.0 | 46.0 |
| 5.00 ~ 30.00 | 73.0 | 60.0 | 60.0 | 50.0 |

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

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: the worse cases was selected to conducted the test

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Keep transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



| Frequency (MHz) | Line | Reading(dB μ V) | | Limit(dB μ V) | |
|--------------------|------|---------------------|---------|-------------------|---------|
| | | Quasi-peak | Average | Quasi-peak | Average |
| 3.726 | Live | 44.89 | 30.49 | 56.00 | 46.00 |
| 19.802 | Live | 40.41 | 28.61 | 60.00 | 50.00 |

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

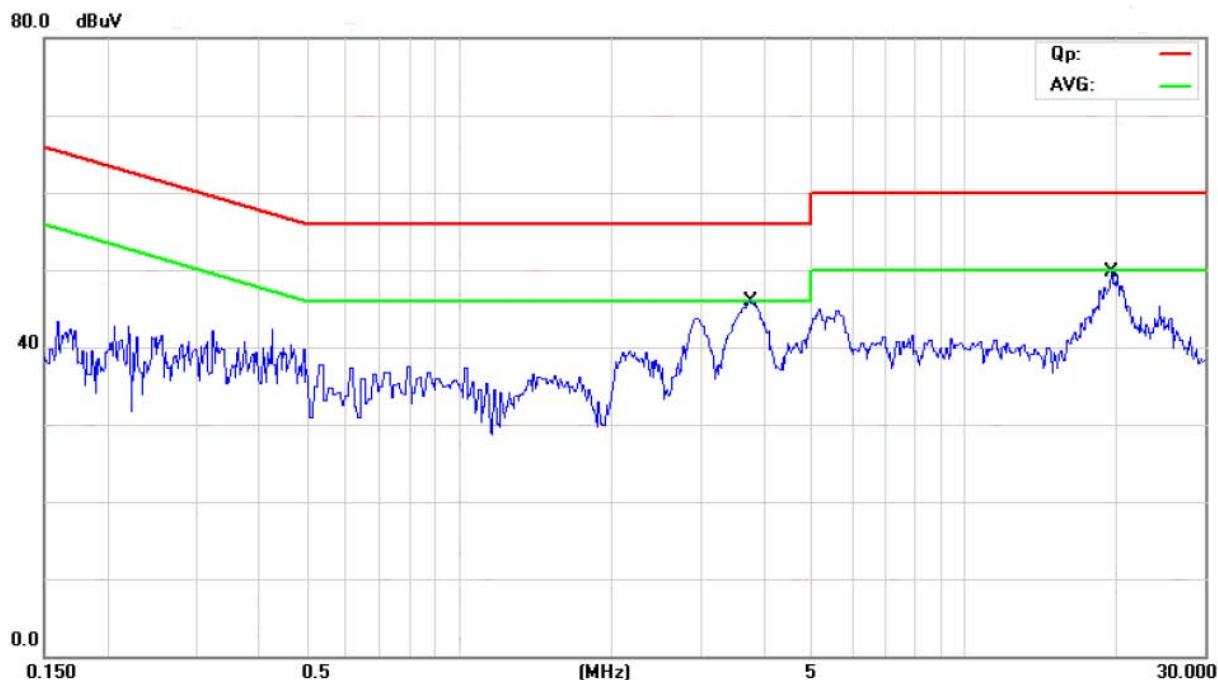
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Keep transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



| Frequency (MHz) | Line | Reading(dB μ V) | | Limit(dB μ V) | |
|--------------------|---------|---------------------|---------|-------------------|---------|
| | | Quasi-peak | Average | Quasi-peak | Average |
| 3.748 | Neutral | 45.30 | 31.70 | 56.00 | 46.00 |
| 19.648 | Neutral | 43.21 | 29.81 | 60.00 | 50.00 |

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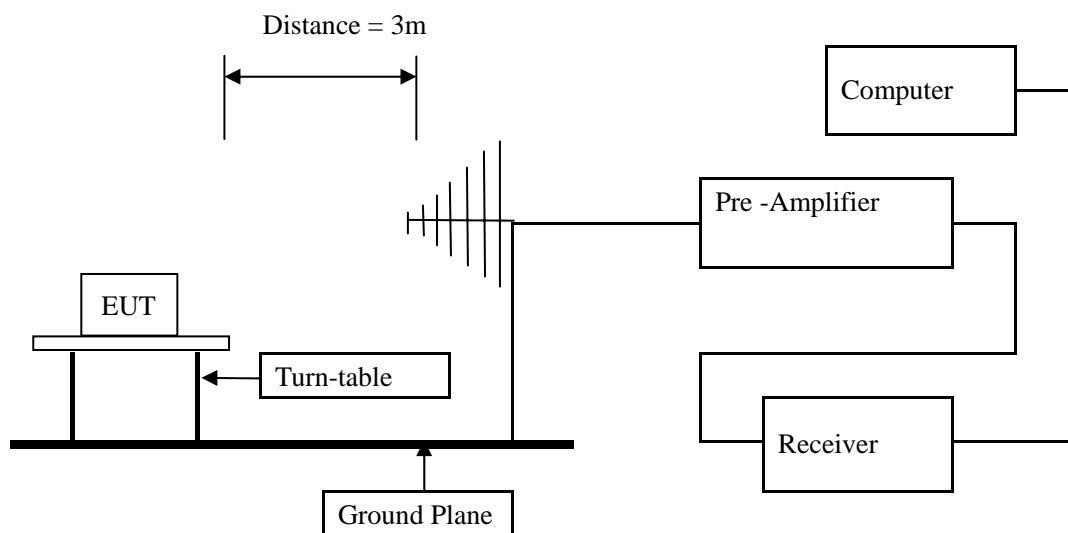
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6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.109, 15.209

| Frequency Range (MHz) | Distance (m) | Field strength (dB μ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

- Note:
1. RF Voltage (dBuV) = $20 \log \text{RF Voltage (uV)}$
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Charging and Keep transmitting

Results: Pass

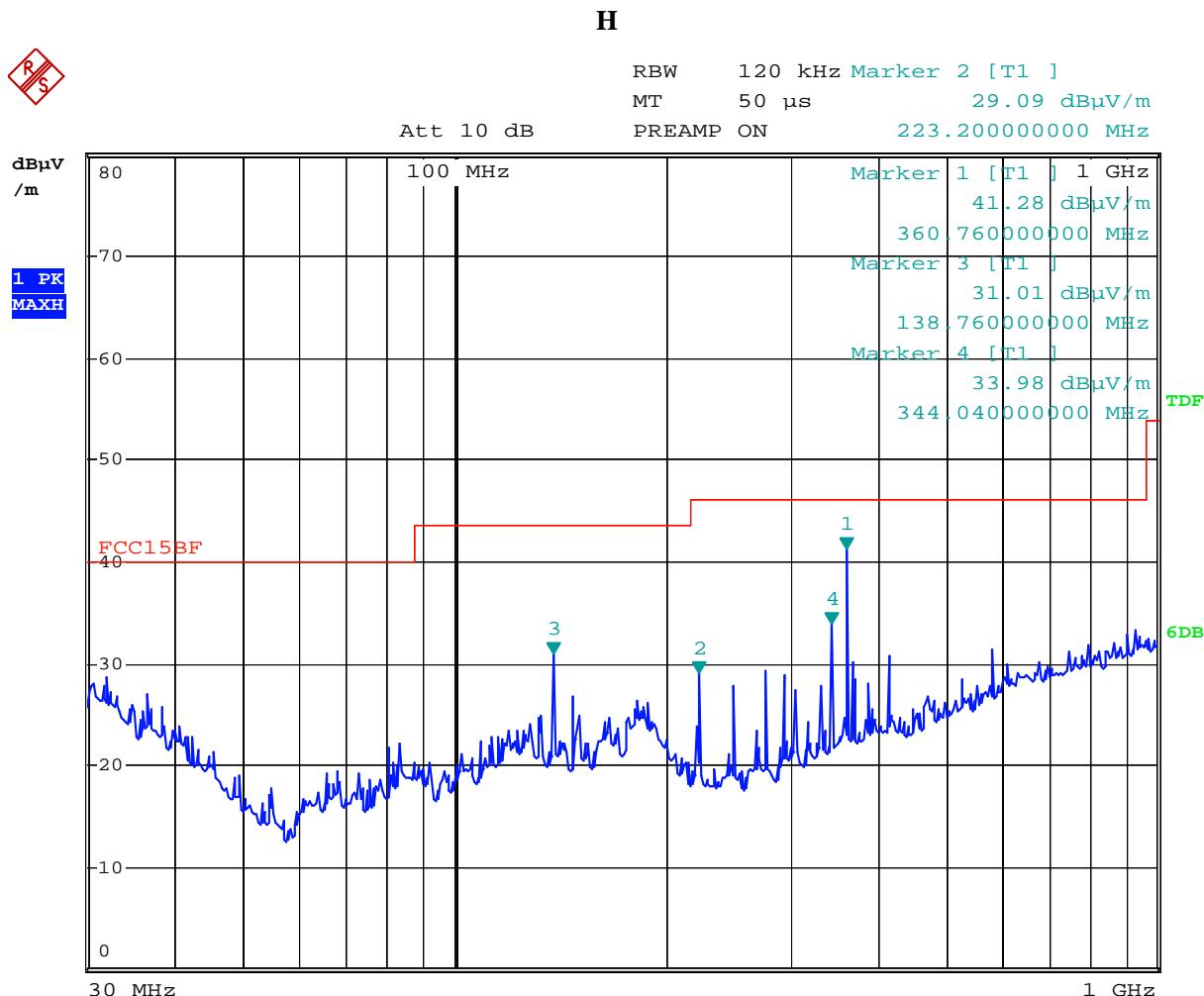
| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 360.760 | 41.28 | H | 46.00 |
| 223.200 | 29.09 | H | 43.50 |
| 138.760 | 31.01 | H | 43.50 |
| 344.040 | 33.98 | H | 46.00 |
| | | | |
| 71.000 | 34.35 | V | 40.00 |
| 194.240 | 35.80 | V | 43.50 |
| 138.760 | 38.19 | V | 43.50 |
| 83.240 | 36.34 | V | 40.00 |

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Test Figure:



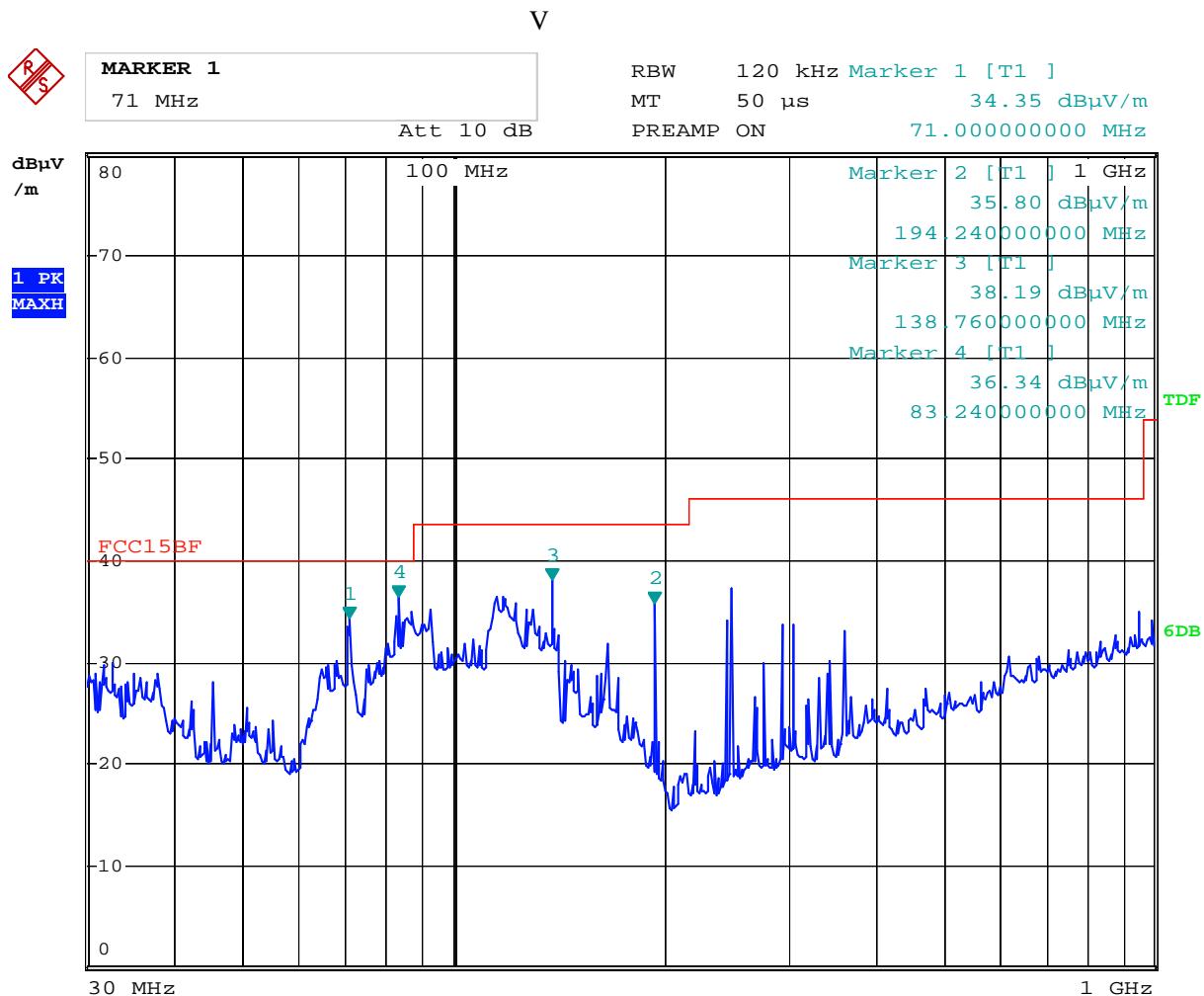
Date: 11.JAN.2013 15:30:46

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Test Figure:



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Operation Mode: Transmitting under Low Channel (2402MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2402 | 83.50(PK) | H | Fundamental Frequency |
| 2402 | 84.63(PK) | V | |
| 4804 | -- | H | 74(Peak)/ 54(AV) |
| 4804 | -- | V | 74(Peak)/ 54(AV) |
| 7206 | -- | H/V | 74(Peak)/ 54(AV) |
| 9608 | -- | H/V | 74(Peak)/ 54(AV) |
| 12010 | -- | H/V | 74(Peak)/ 54(AV) |
| 14412 | -- | H/V | 74(Peak)/ 54(AV) |
| 16814 | -- | H/V | 74(Peak)/ 54(AV) |
| 19216 | -- | H/V | 74(Peak)/ 54(AV) |
| 21618 | -- | H/V | 74(Peak)/ 54(AV) |
| 24020 | -- | H/V | 74(Peak)/ 54(AV) |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

Operation Mode: Transmitting g under Middle Channel (2441MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2441 | 82.99(PK) | H | Fundamental Frequency |
| 2441 | 85.06(PK) | V | |
| 4882 | -- | H | 74(Peak)/ 54(AV) |
| 4882 | -- | V | 74(Peak)/ 54(AV) |
| 7323 | -- | H/V | 74(Peak)/ 54(AV) |
| 9764 | -- | H/V | 74(Peak)/ 54(AV) |
| 12205 | -- | H/V | 74(Peak)/ 54(AV) |
| 14646 | -- | H/V | 74(Peak)/ 54(AV) |
| 17087 | -- | H/V | 74(Peak)/ 54(AV) |
| 19528 | -- | H/V | 74(Peak)/ 54(AV) |
| 21969 | -- | H/V | 74(Peak)/ 54(AV) |
| 24410 | -- | H/V | 74(Peak)/ 54(AV) |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

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Operation Mode: Transmitting under High Channel

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2480 | 83.71(PK) | H | Fundamental Frequency |
| 2480 | 85.27(PK) | V | |
| 4960. | -- | H | 74(Peak)/ 54(AV) |
| 4960. | -- | V | 74(Peak)/ 54(AV) |
| 7440 | -- | H/V | 74(Peak)/ 54(AV) |
| 9920 | -- | H/V | 74(Peak)/ 54(AV) |
| 12400 | -- | H/V | 74(Peak)/ 54(AV) |
| 14880 | -- | H/V | 74(Peak)/ 54(AV) |
| 17360 | -- | H/V | 74(Peak)/ 54(AV) |
| 19840 | -- | H/V | 74(Peak)/ 54(AV) |
| 22320 | -- | H/V | 74(Peak)/ 54(AV) |
| 24800 | -- | H/V | 74(Peak)/ 54(AV) |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

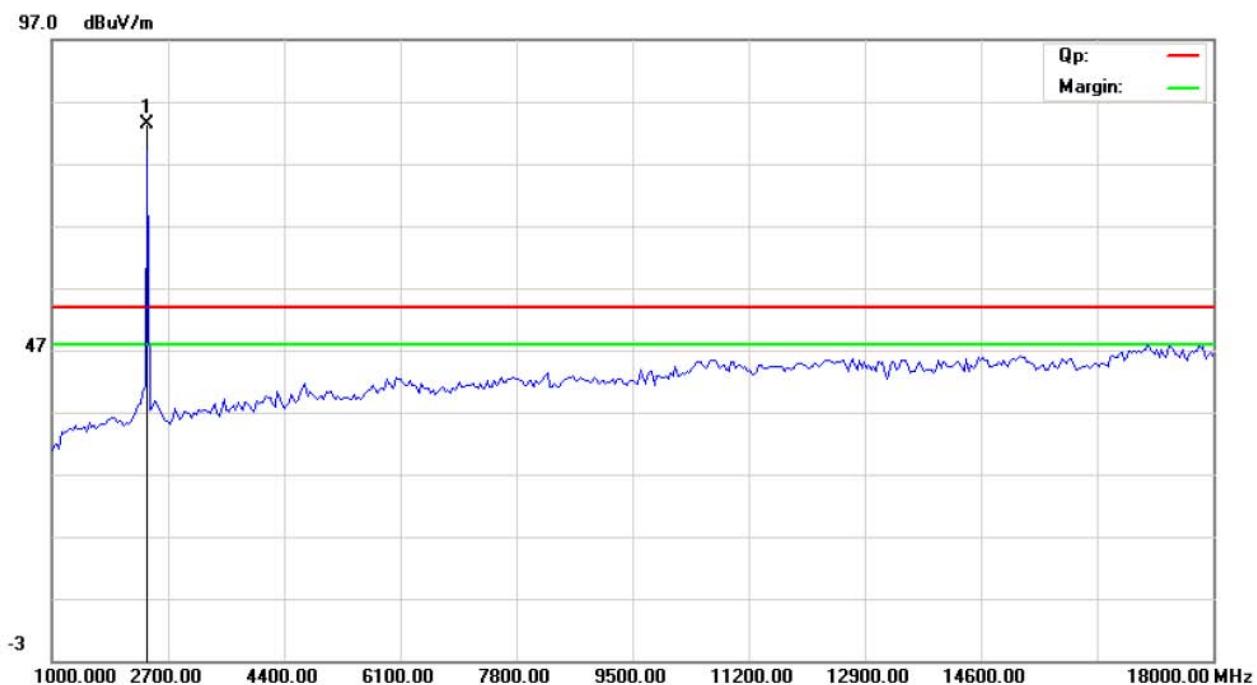
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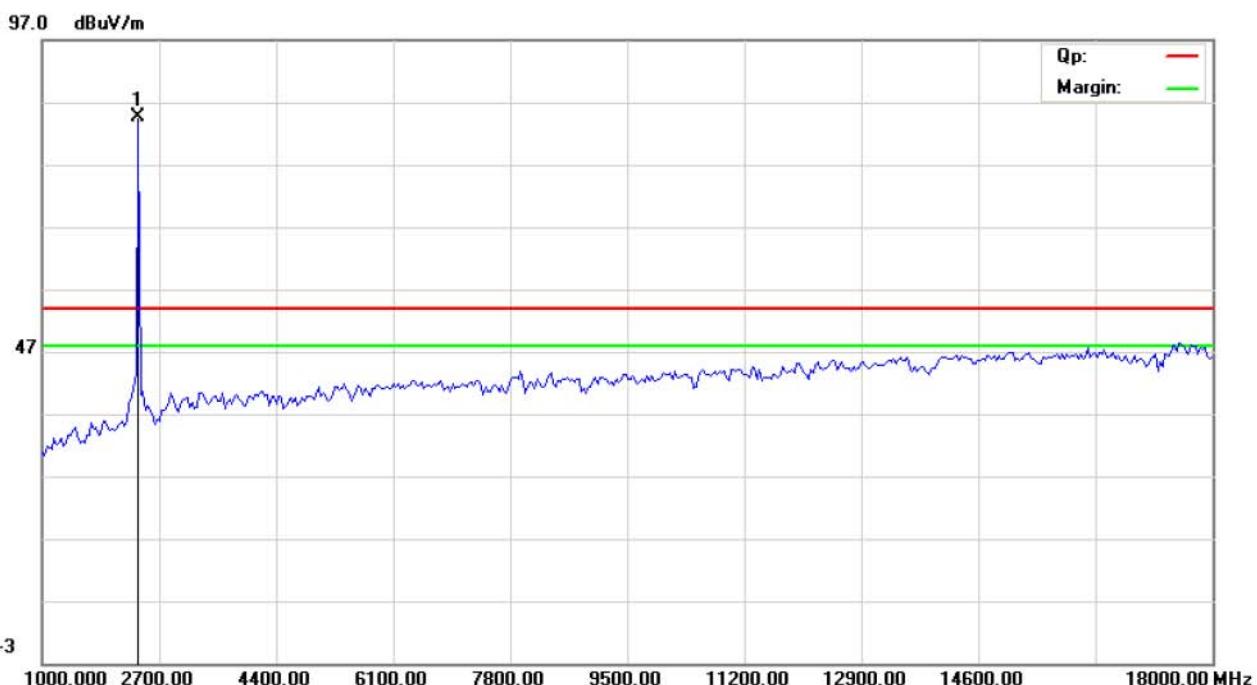
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Please refer to the following test plots for details:

Low Channel: Horizontal



Low Channel : Vertical

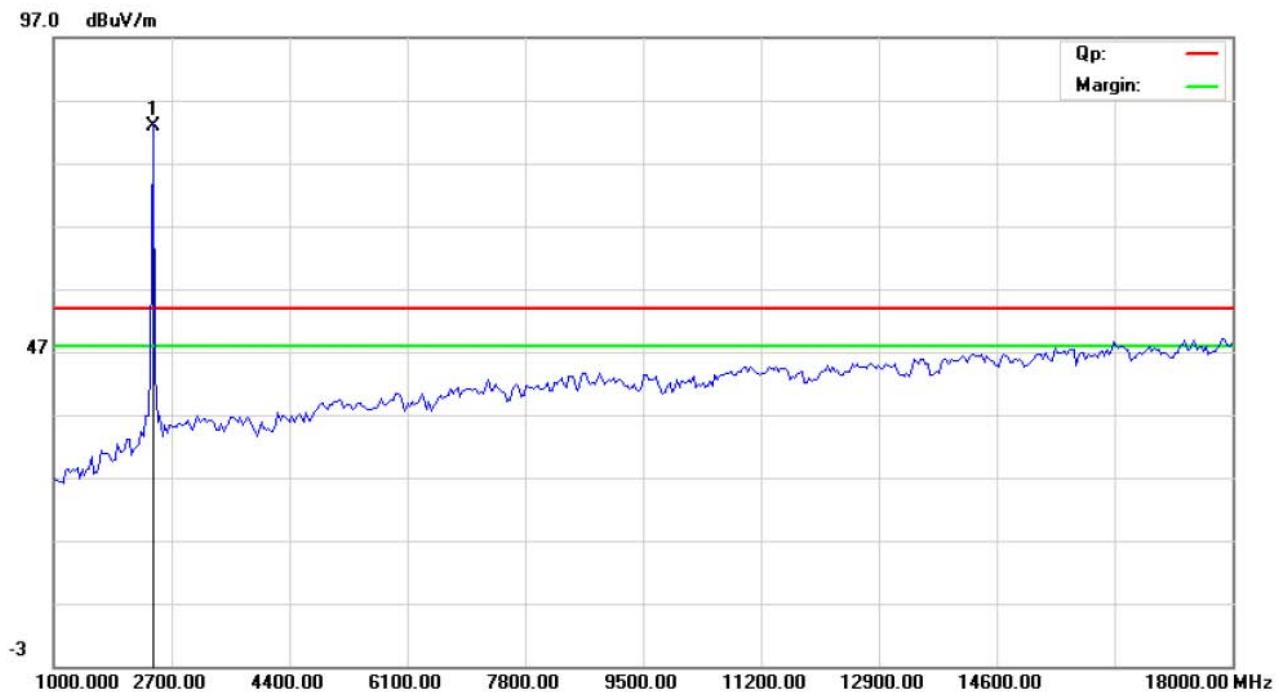


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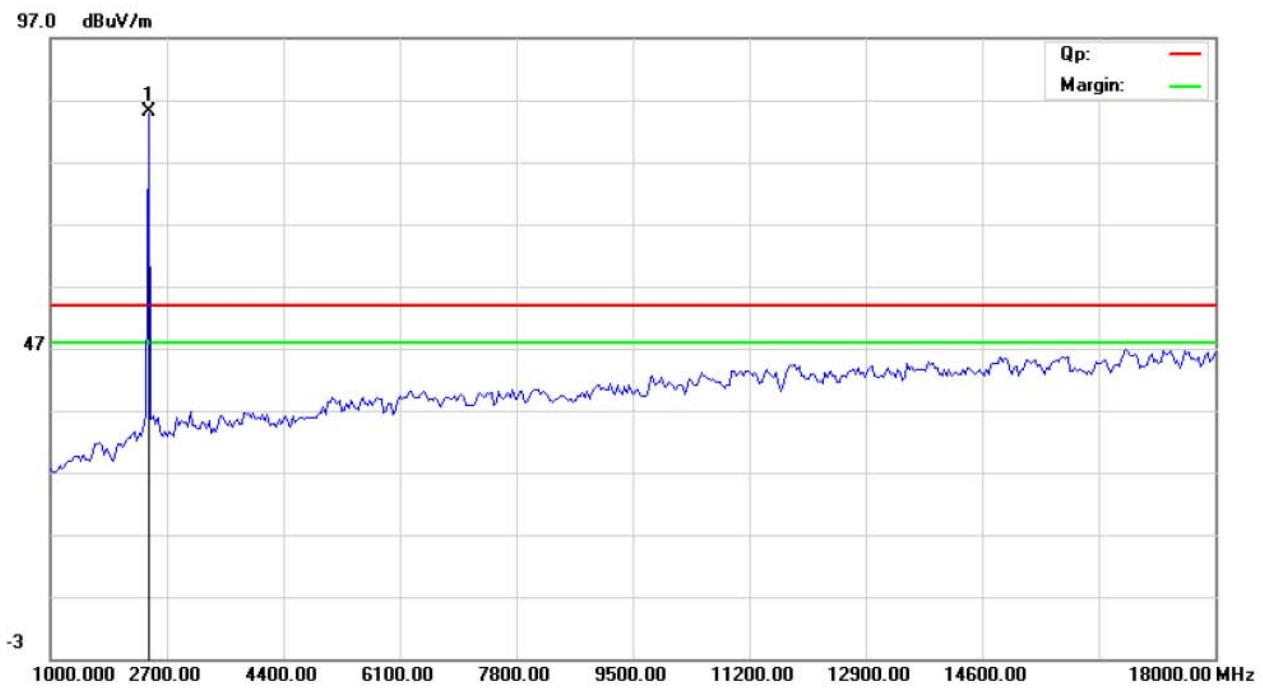
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Middle Channel : Horizontal



Middle Channel :: Vertical

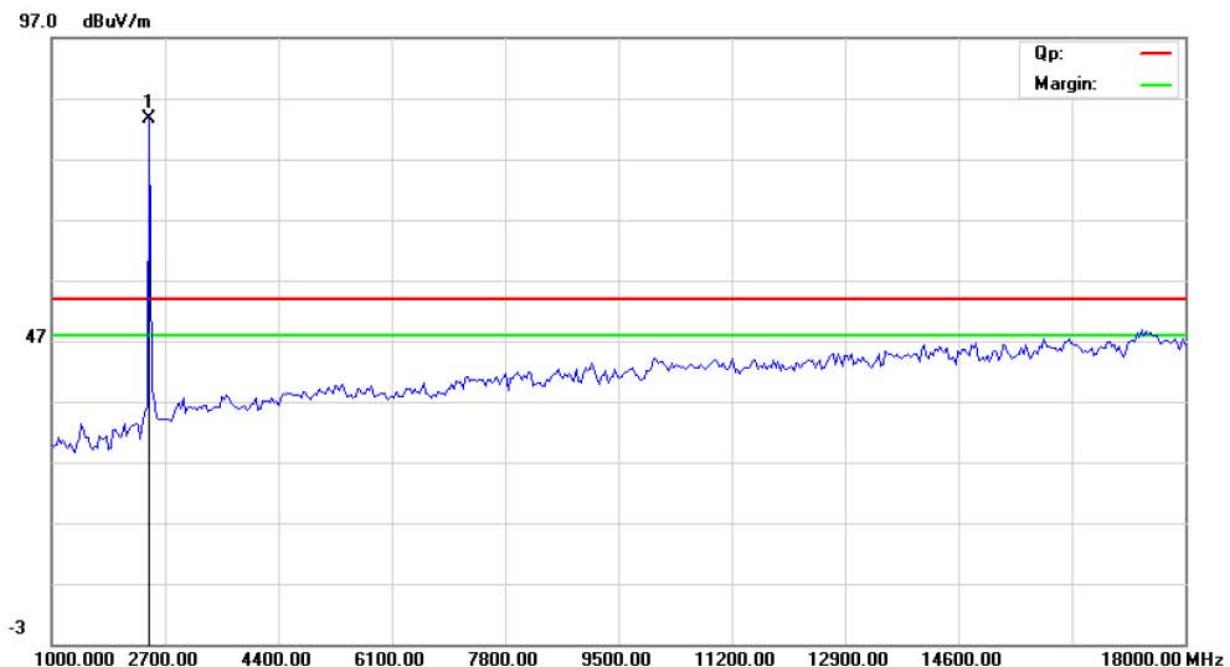


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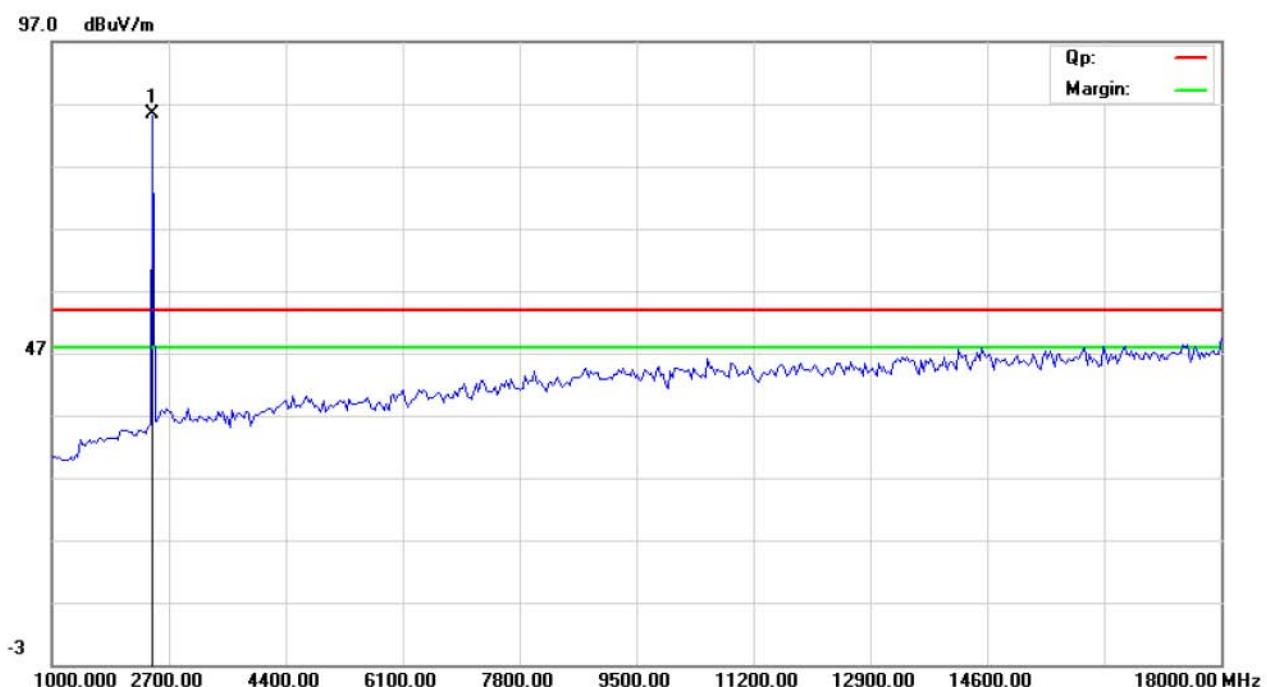
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High Channel : Horizontal



High Channel : Vertical



Note: For the radiated emissions from 18GHz-25GHz, it is the floor noise that meets the requirement of FCC rule.

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7.0 20dB Bandwidth Measurement

7.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured $VBW \geq RBW$ Sweep = auto Detector function = peak Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result:

| EUT | | 7inch Tablet PC | Model | L70C |
|-------------|-------------------------|-----------------------|---------------------|------------|
| Mode | | Keep Transmitting | Input Voltage | AC 120V |
| Temperature | | 24 deg. C, | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (kHz) | Maximum Limit (kHz) | Pass/ Fail |
| Low | 2402 | 804 | -- | Pass |
| Middle | 2441 | 810 | -- | Pass |
| High | 2480 | 810 | -- | Pass |

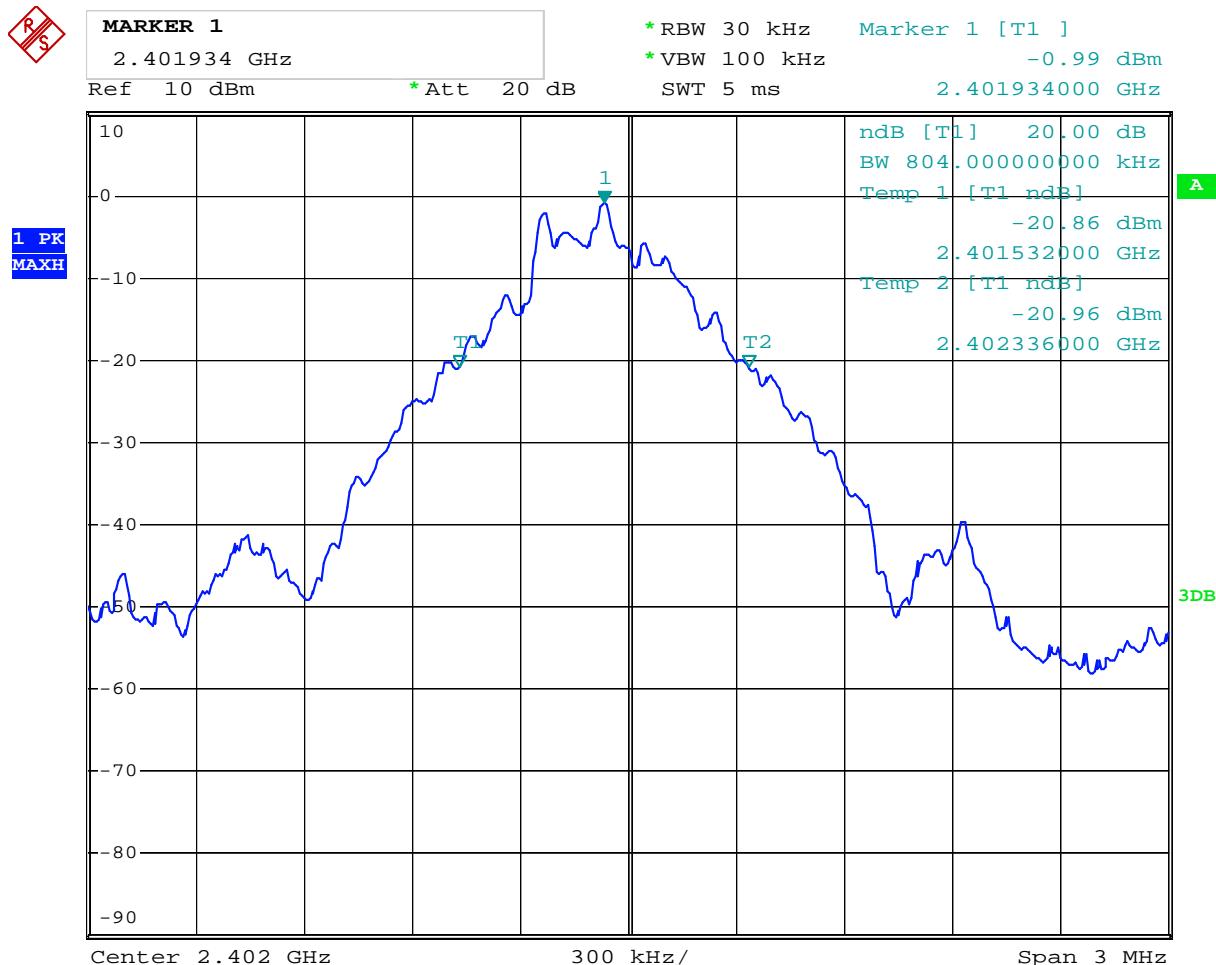
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Test Figure:

1. Condition: Low Channel



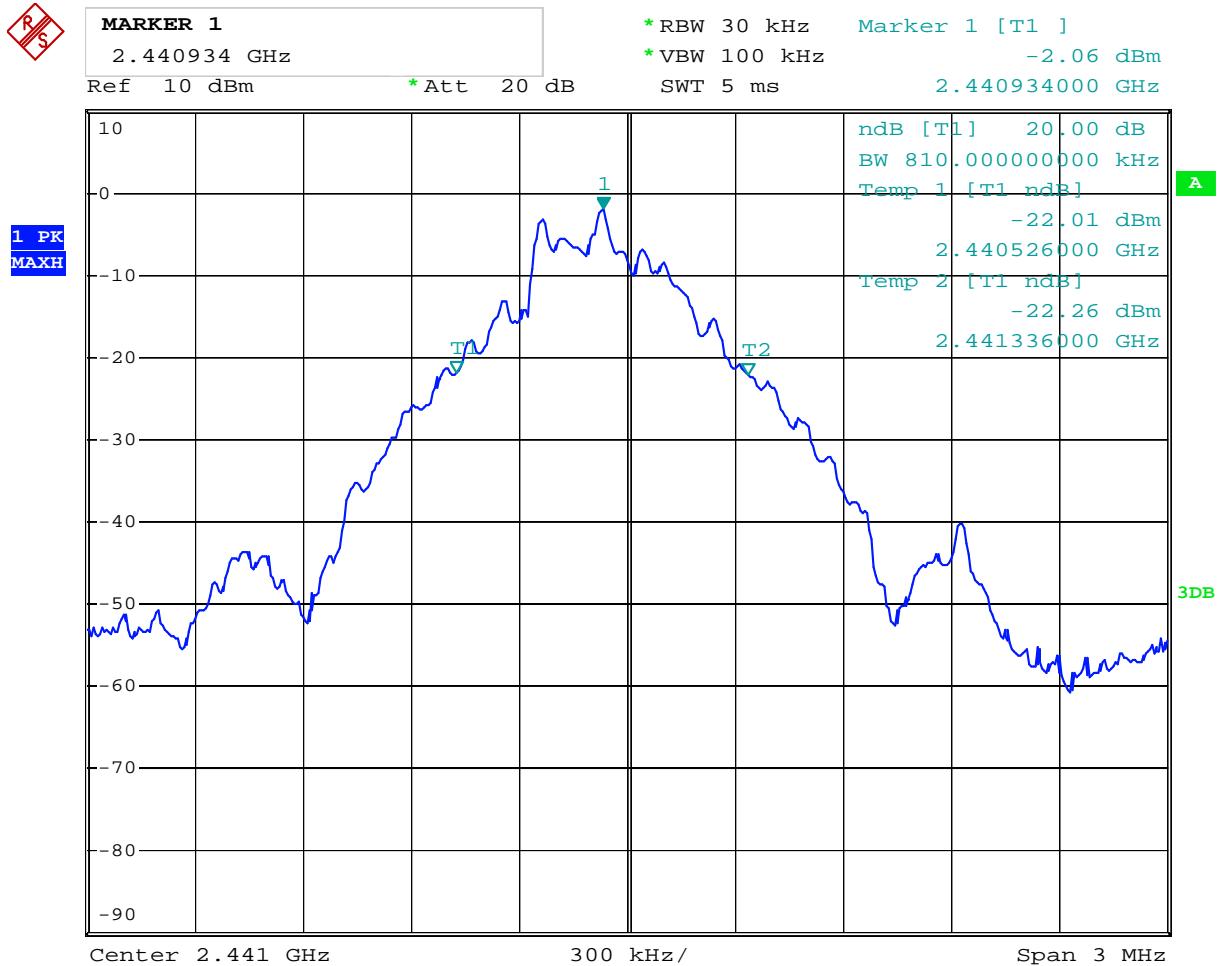
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2. Condition: Middle Channel



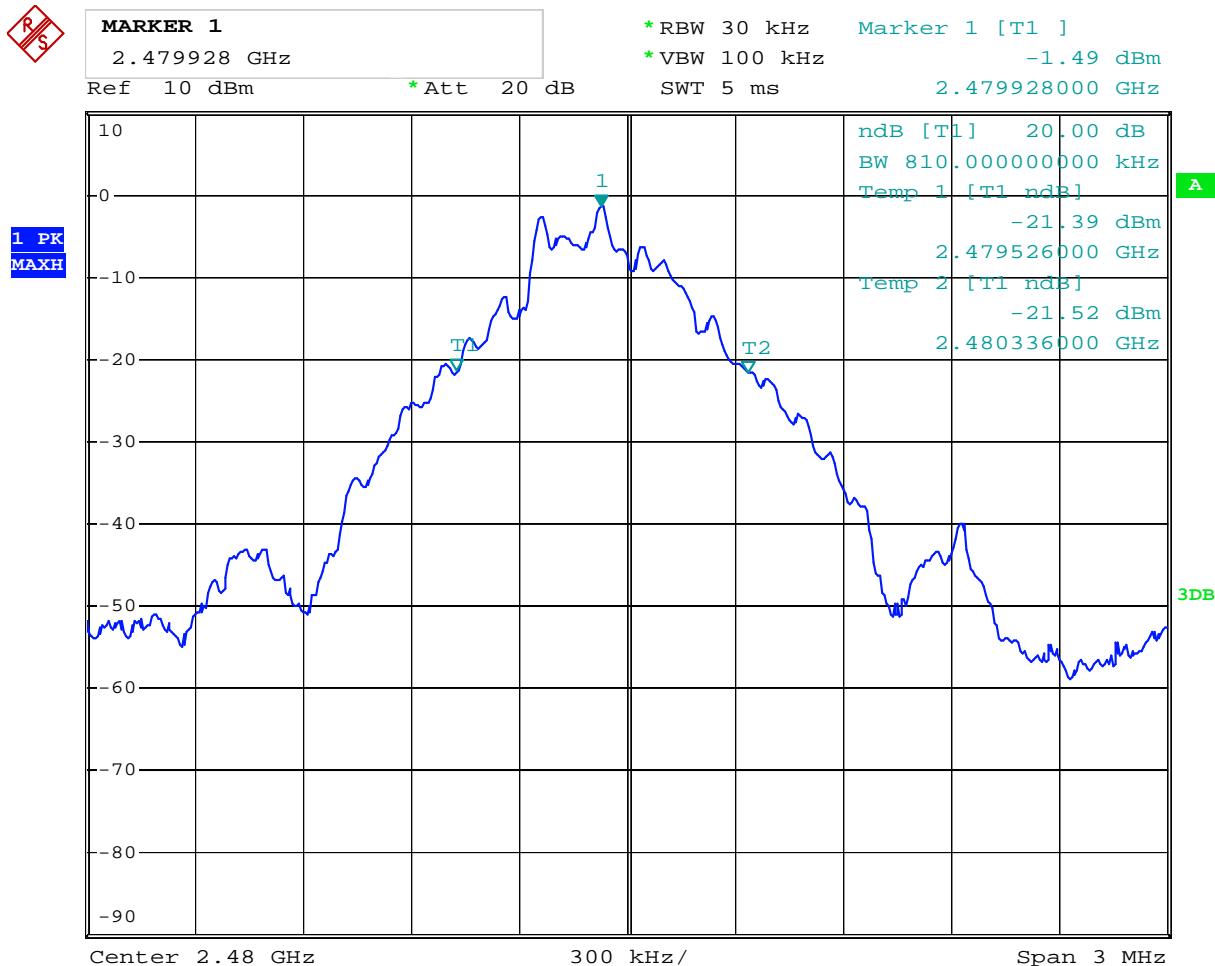
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3. High Channel



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8. Maximum Peak Output Power

8.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

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8.4 Test Results

| EUT | | 7inch Tablet PC | Model | L70C |
|-------------|-------------------------|-------------------------|------------------------|------------|
| Mode | | Keep Transmitting | Input Voltage | AC120V |
| Temperature | | 24 deg. C, | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | Peak Power Output (dBm) | Peak Power Limit (dBm) | Pass/ Fail |
| Low | 2402 | -0.51 | 30 | Pass |
| Middle | 2441 | -1.39 | 30 | Pass |
| High | 2480 | -0.59 | 30 | Pass |

Note: 1. the result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels; Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span; Video (or Average) Bandwidth (VBW) \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

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9.4 Test Result

| EUT | | 7inch Tablet PC | Model | L70C |
|-------------|-------------------------|------------------------------|--|------------|
| Mode | | Keep Transmitting | Input Voltage | AC120V |
| Temperature | | 24 deg. C, | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | Carrier Frequency Separation | Limit | Pass/ Fail |
| Middle | 2480 | 990kHz | ≥ 25 kHz or two-thirds of 20 dB bandwidth | Pass |

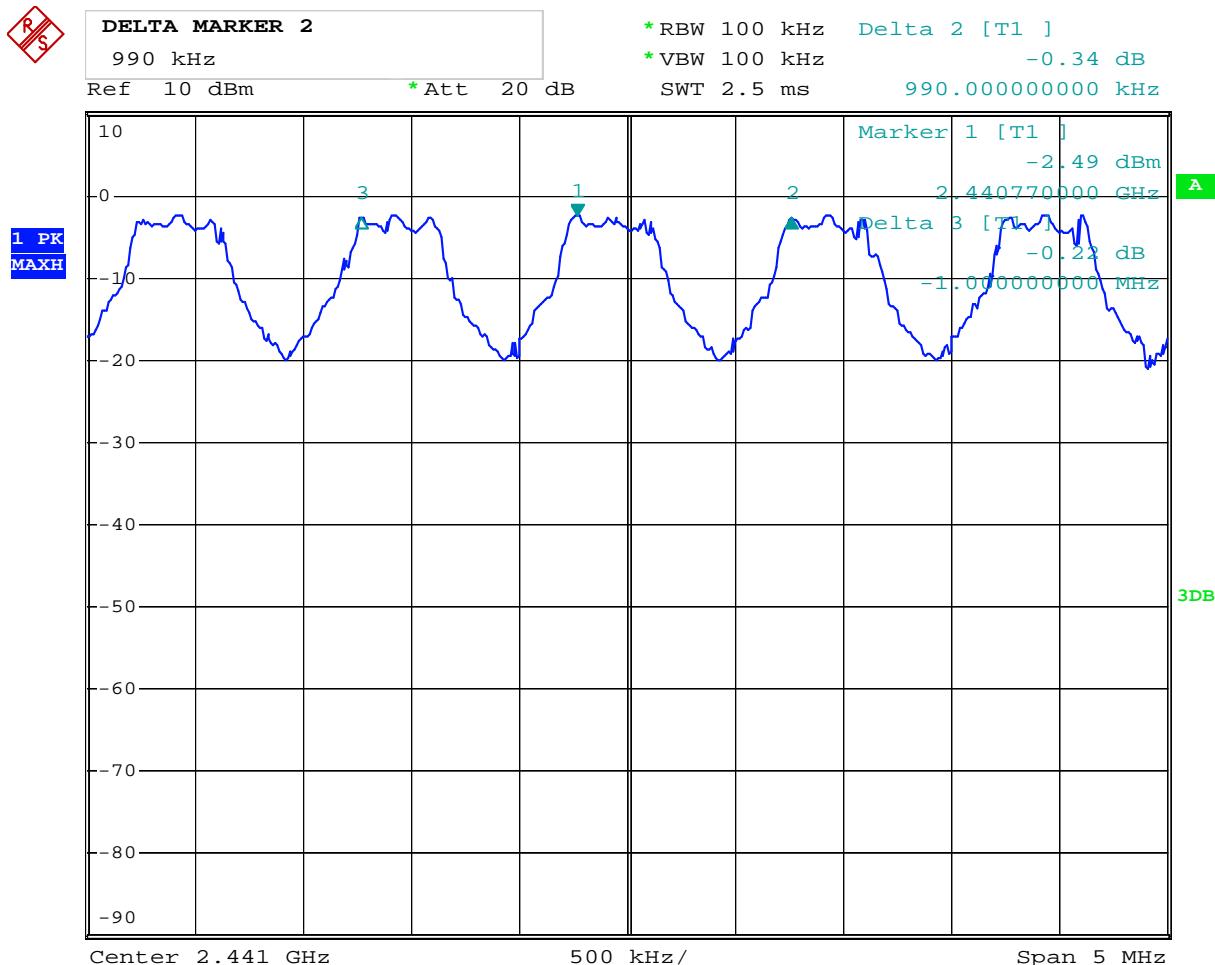
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Test Plots

Middle Channel



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10. Number of Hopping Channels

10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW $\geq 1\%$ of the span; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Record the number of hopping channels.

The report refers only to the sample tested and does not apply to the bulk.

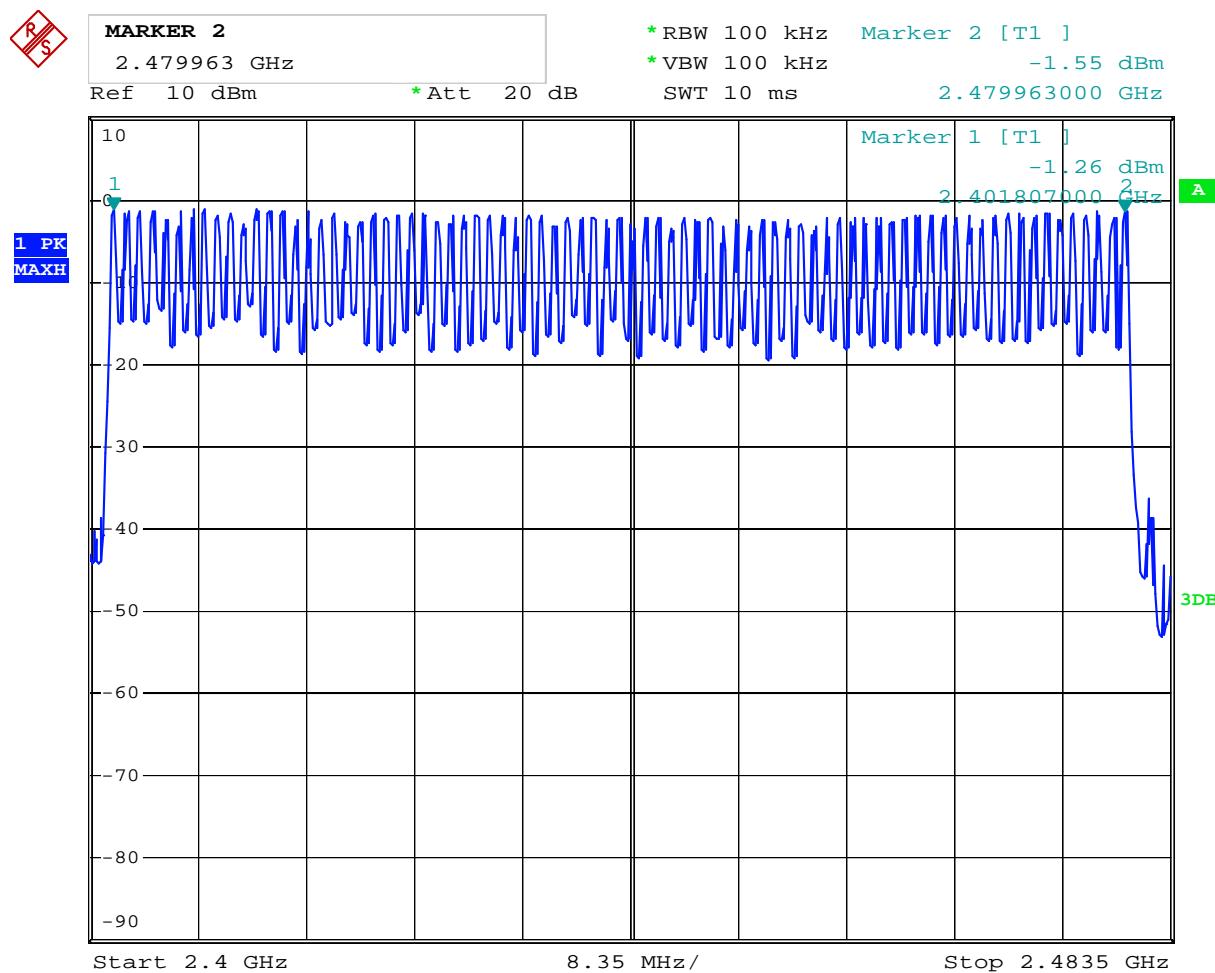
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10.4 Test Result

| | | | |
|---------------------|----------------------------|---------------|------------|
| EUT | 7inch Tablet PC | Model | L70C |
| Mode | Keep Transmitting | Input Voltage | AC120V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Operating Frequency | Number of hopping channels | Limit | Pass/ Fail |
| 2402-2480MHz | 79 | ≥ 15 | Pass |

Test Plot



Date: 18.JAN.2013 09:42:17

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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW \geq RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold
3. Measure the dwell time using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.
5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

| EUT | | 7inch Tablet PC | Model | L70C |
|-------------|---------|-------------------|---------------|--------|
| Mode | | Keep Transmitting | Input Voltage | AC120V |
| Temperature | | 24 deg. C, | Humidity | 56% RH |
| Channel | Reading | Hopping Rate | Actual | Limit |
| Low | 3.06 | 266.667 hop/s | 0.3264 | 0.4s |
| Middle | 3.08 | 266.667 hop/s | 0.3285 | 0.4s |
| High | 3.06 | 266.667 hop/s | 0.3264 | 0.4s |

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 μ s with 79 channels. A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels. **And the DH5 is the worst case.**

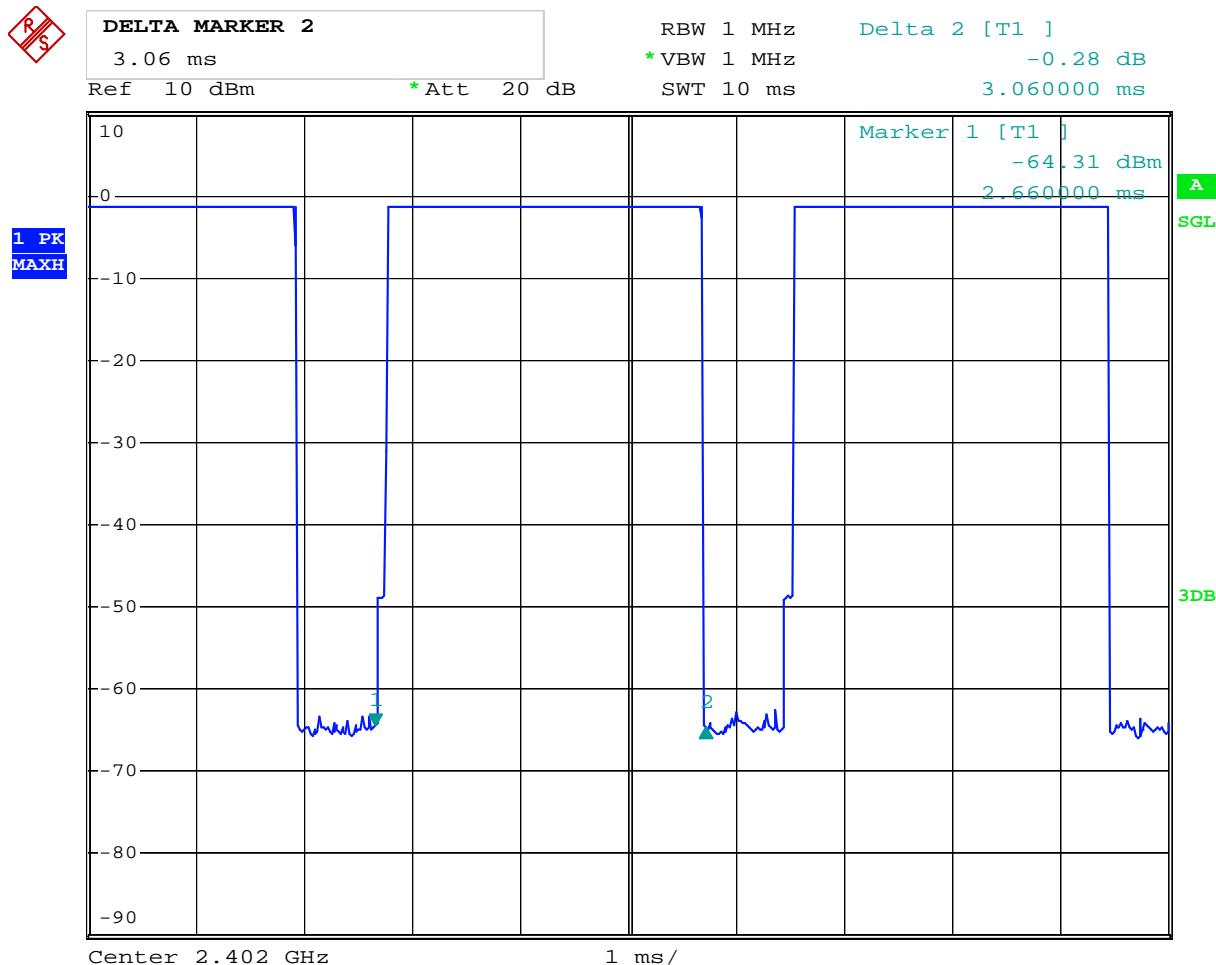
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Test Plots:

Low Channel:



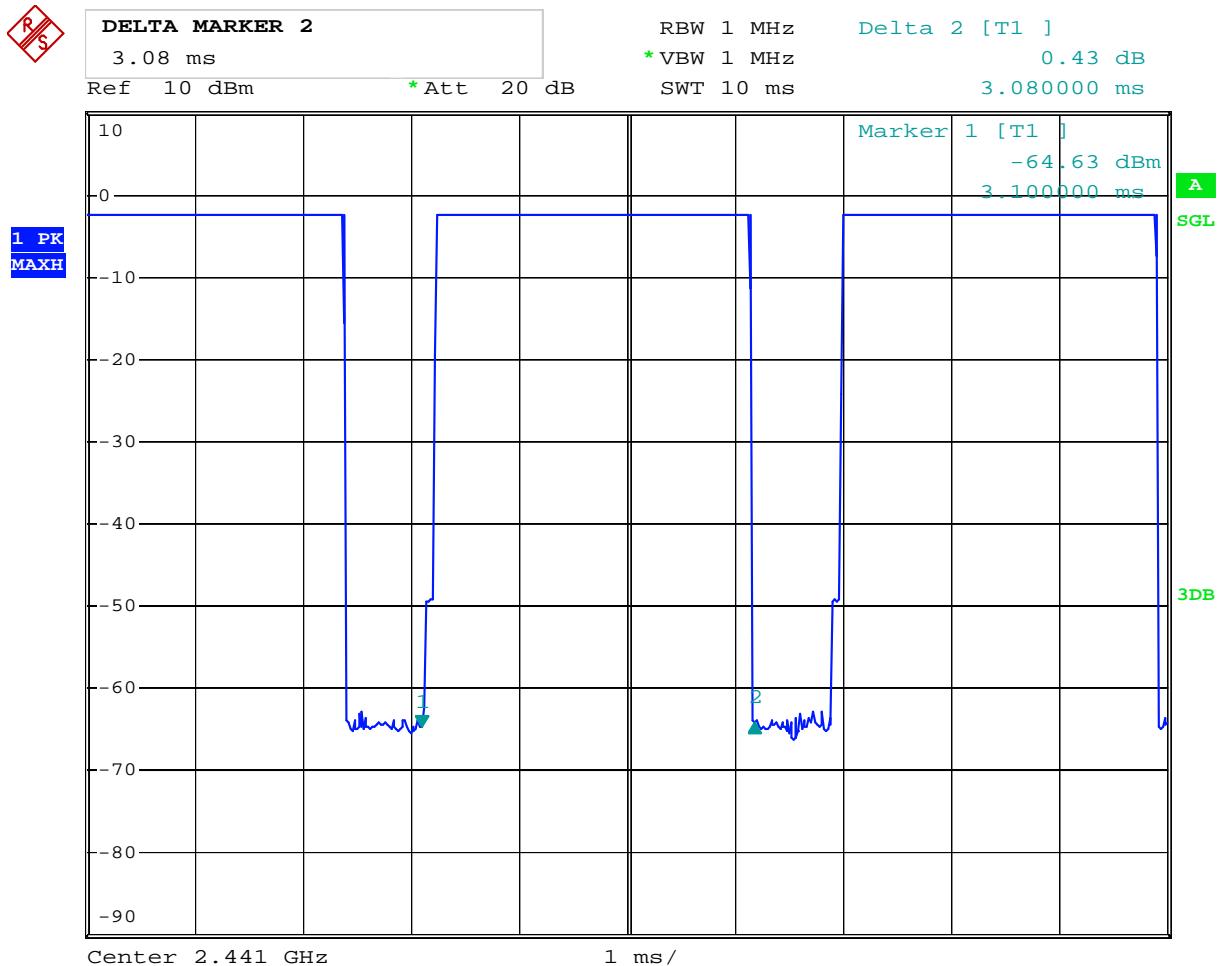
Date: 18.JAN.2013 10:01:02

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Middle Channel:



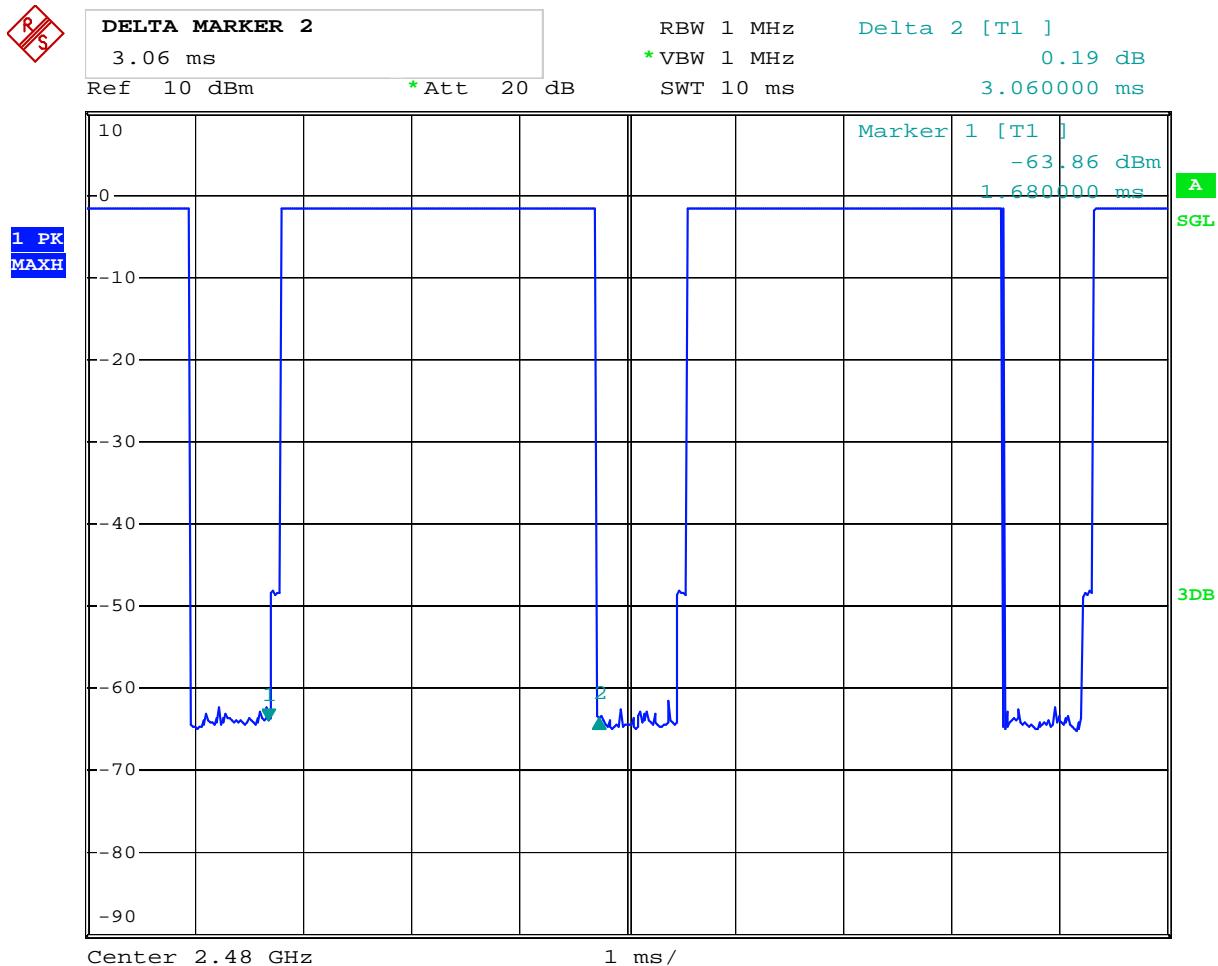
Date: 18.JAN.2013 10:03:24

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High Channel:



Date: 18.JAN.2013 10:05:59

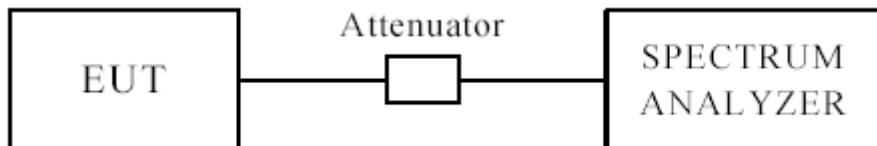
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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

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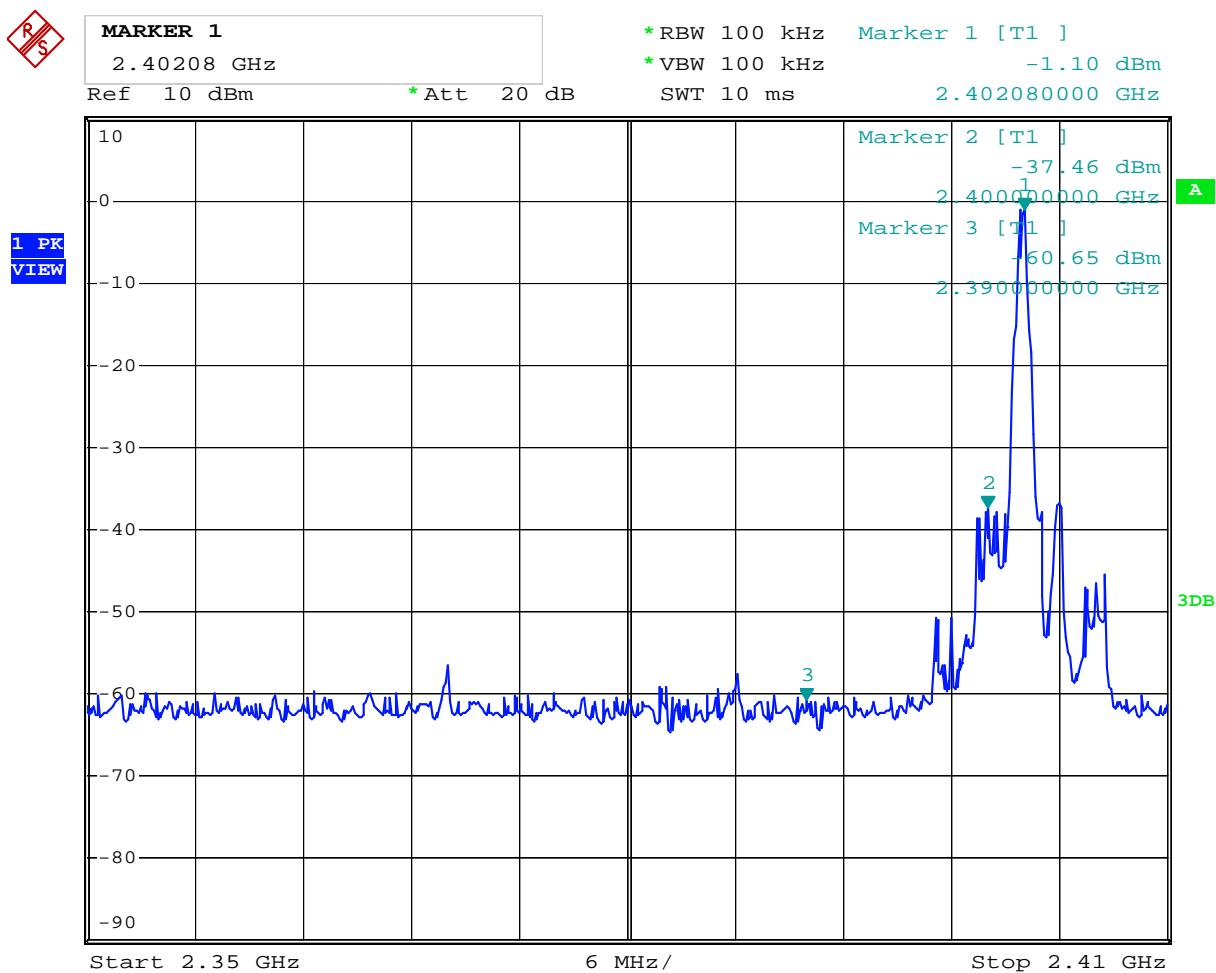
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Test result:

12.4 Out of Band and Restrict band Test Result

| | | | | |
|--|-----------------------------------|-----------------|---------------|------------------|
| Product: | 7inch Tablet PC | | Test Mode: | Low Channel |
| Mode | Keeping Transmitting Under Low CH | | Input Voltage | AC120V |
| Temperature | 24 deg. C | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in Restrict Band 2390MHz | PK (dB μ V/m) | 38.6(V)/37.5(H) | Limit | 74(dB μ V/m) |
| | AV(dB μ V/m) | -- | | 54(dB μ V/m) |

Test Figure:



Date: 18.JAN.2013 09:32:25

Note: The Max. FS in Restrict Band are measured in conventional method.

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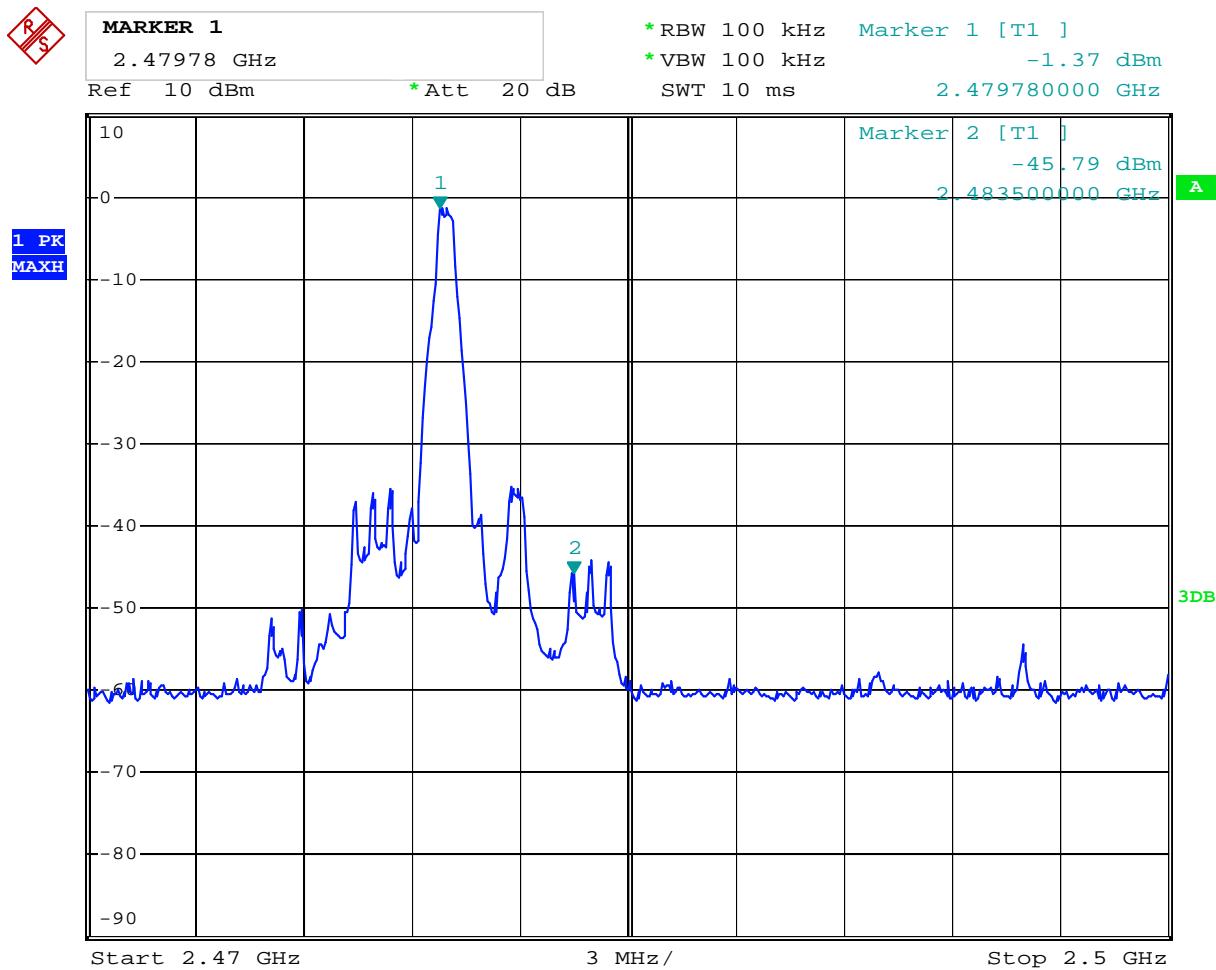
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12.4 Out of Band and Restrict band Test Result

| | | | | |
|--|------------------------------------|-----------------|---------------|------------------|
| Product: | 7inch Tablet PC | | Test Mode: | High Channel |
| Mode | Keeping Transmitting Under High CH | | Input Voltage | AC120V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in Restrict Band 2484.5MHz | PK (dB μ V/m) | 39.2(V)/38.5(H) | Limit | 74(dB μ V/m) |
| | AV(dB μ V/m) | -- | | 54(dB μ V/m) |

Test Figure:



Date: 18.JAN.2013 09:36:41

Note: The Max. FS in Restrict Band are measured in conventional method.

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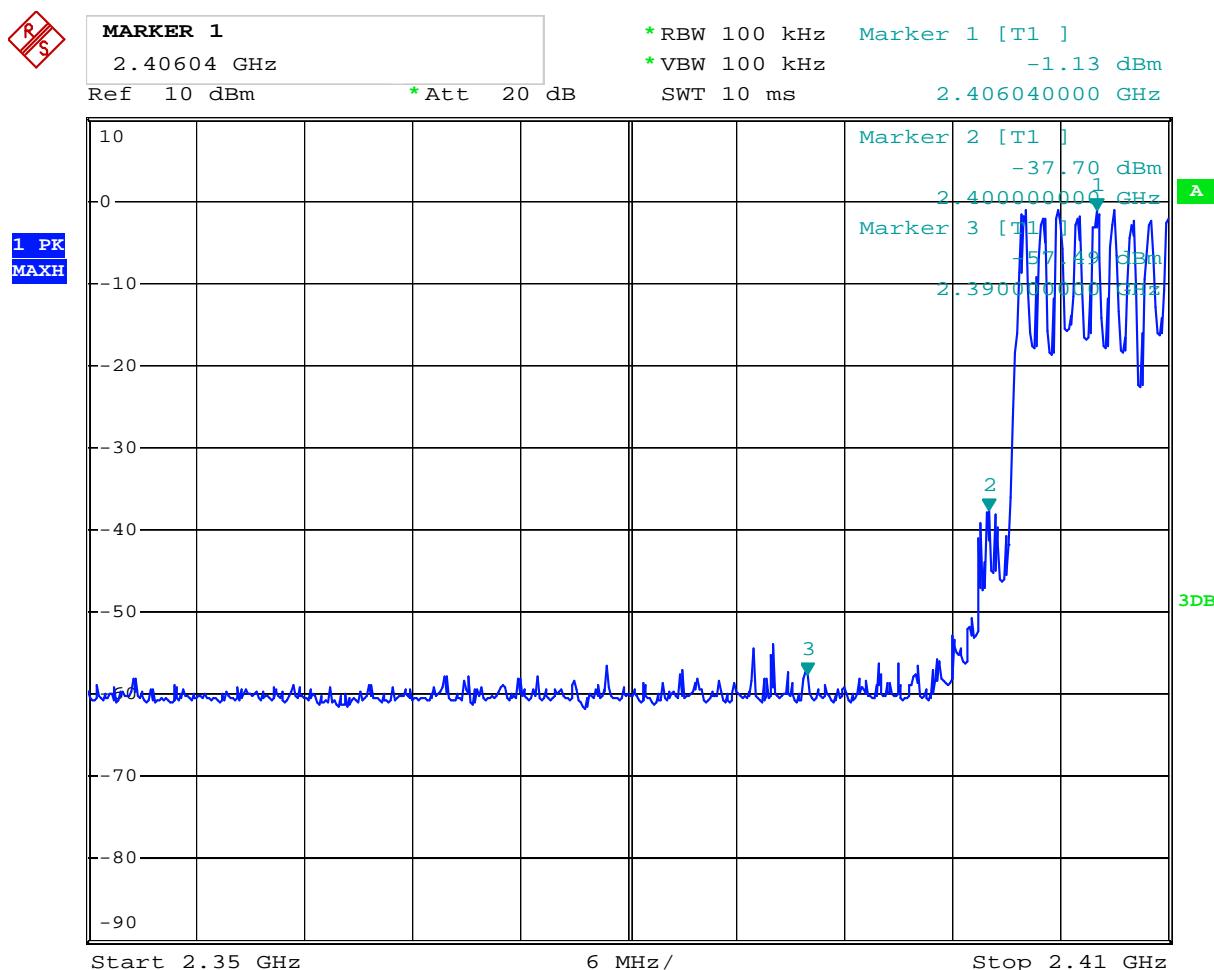
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12.4 Out of Band and Restrict band Test Result (Hopping Mode)

| | | | | |
|--|-------------------|-----------------|---------------|------------------|
| Product: | 7inch Tablet PC | | Test Mode: | Low Channel |
| Mode | Hopping Mode | | Input Voltage | AC120V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in Restrict Band 2390MHz | PK (dB μ V/m) | 37.0(V)/36.9(H) | Limit | 74(dB μ V/m) |
| | AV(dB μ V/m) | -- | | 54(dB μ V/m) |

Test Figure:



Date: 18.JAN.2013 09:34:09

Note: The Max. FS in Restrict Band are measured in conventional method.

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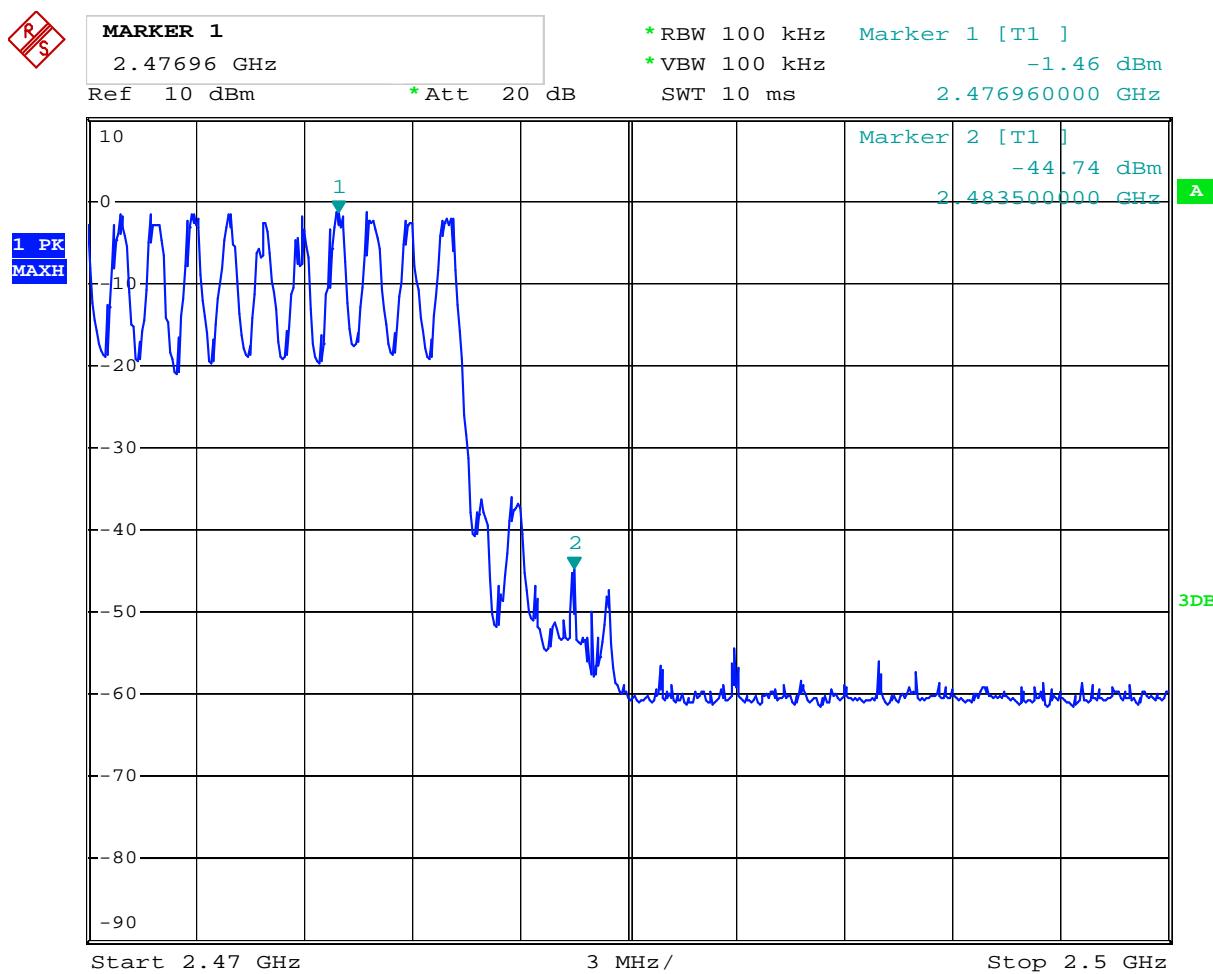
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12.4 Out of Band and Restrict band Test Result (Hopping Mode)

| | | | | |
|--|-------------------|-----------------|---------------|------------------|
| Product: | 7inch Tablet PC | | Test Mode: | High Channel |
| Mode | Hopping Mode | | Input Voltage | AC120V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| The Max. FS in Restrict Band 2483.5MHz | PK (dB μ V/m) | 38.3(V)/37.5(H) | Limit | 74(dB μ V/m) |
| | AV(dB μ V/m) | -- | | 54(dB μ V/m) |

Test Figure:



Date: 18.JAN.2013 09:35:44

Note: The Max. FS in Restrict Band are measured in conventional method.

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13.0 Antenna Requirement

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected construction

There is a Integral Antenna, and the maximum Gain of this antenna is 2dBi.

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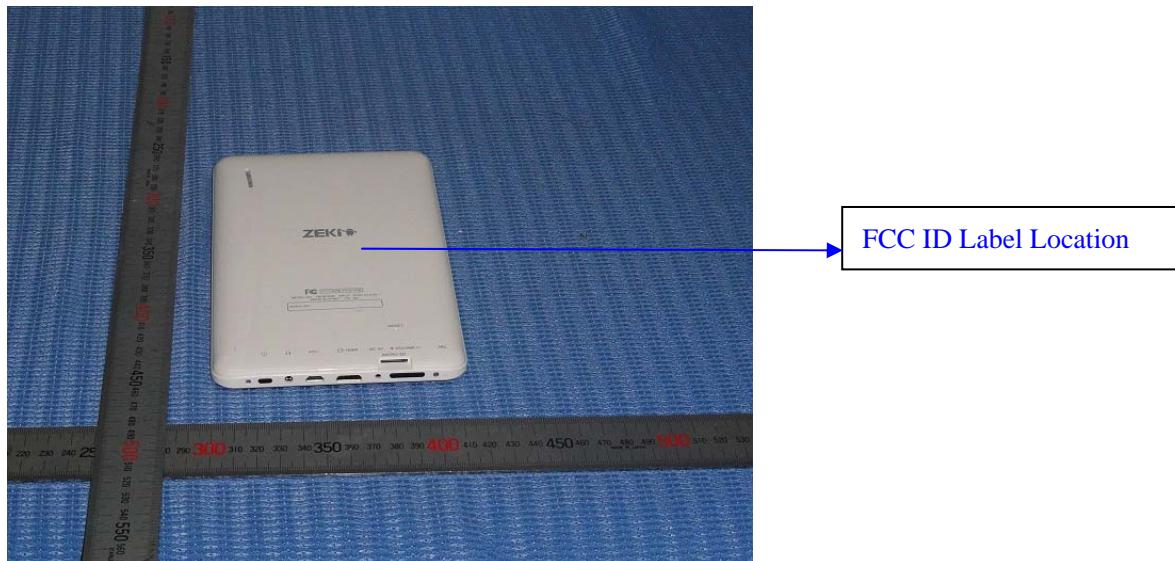
14.0 FCC ID Label

FCC ID: P7U760RB-TBDB763B

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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15.0 Photo of testing

15.1 Conducted test View



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15.2 Emission Radiated test View



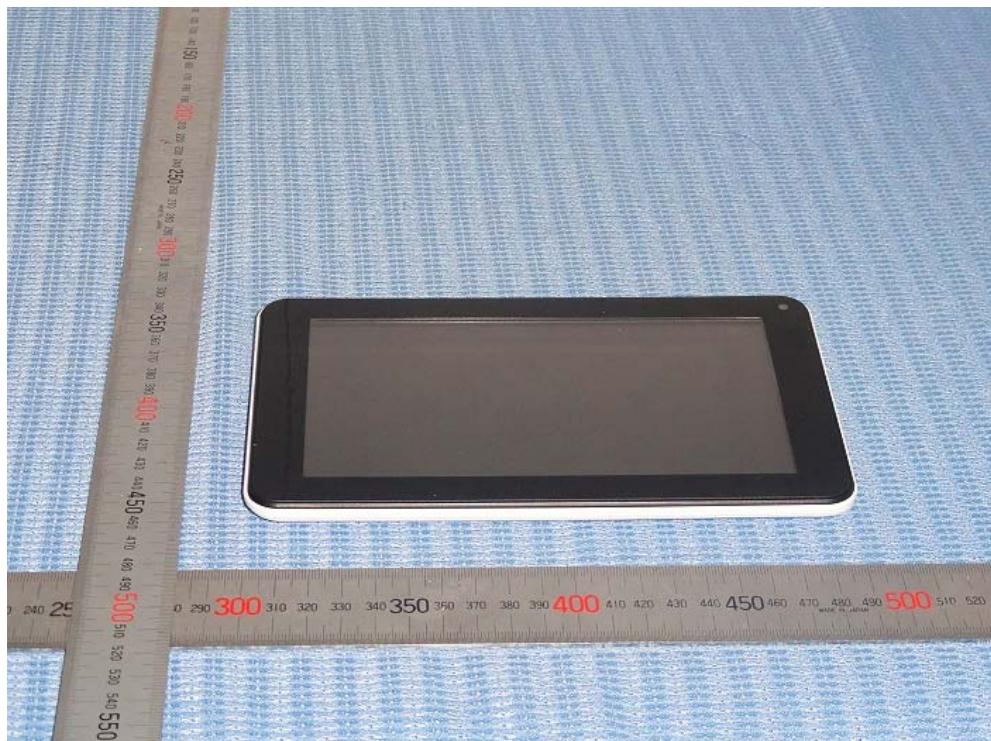
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15.3 Photo for the EUT

Outside view



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Outside view

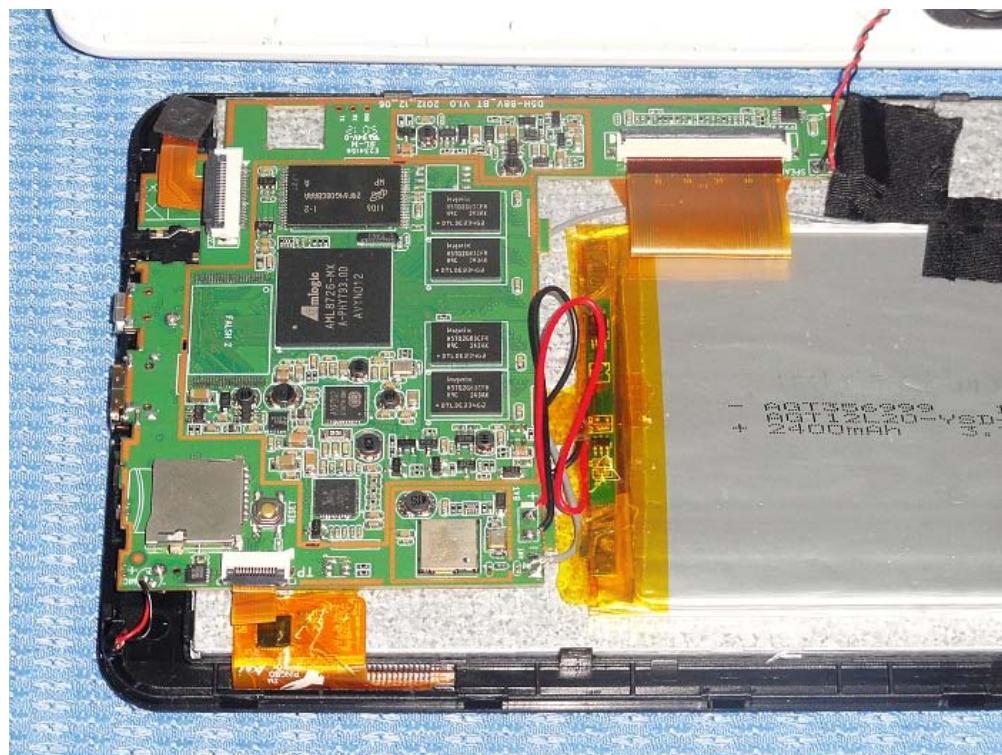


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Inside view

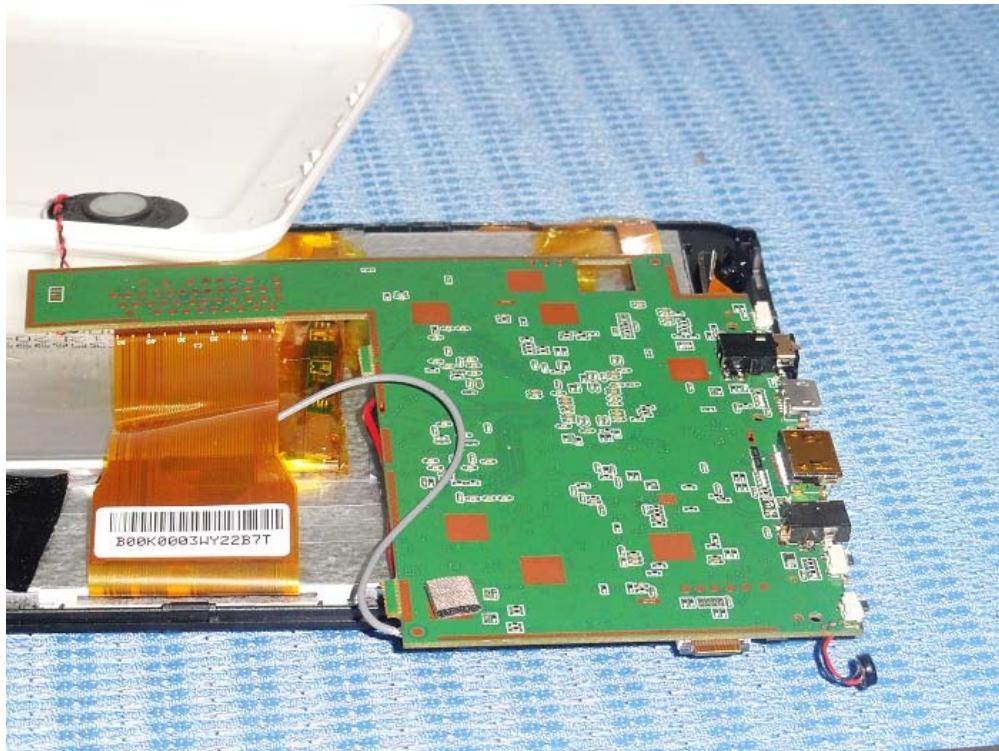


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Inside view



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