

MEERA INTERNATIONAL LIMITED

7inch Tablet PC

Main Model: MT-708 i

Serial Model: NTB-708 i, MT-788 i, NTB-788 i

Jaunary 08, 2014

Report No.: 13021129-FCC-R3

(This report supersedes none)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

Deon Dai Compliance Engineer	Alex Liu Technical Manager	

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Test result presented in this test report is applicable to the representative sample only.**

RF Test Report
To: FCC Part 15.247; 2013, ANSI C63.4; 2009

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Title: RF Test Report for 7inch Tablet PC
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Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13021129-FCC-R3
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Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management through out a project. Our extensive experience with China, Asia Pacific, North America, European, and international compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC , RF/Wireless , Telecom
Canada	EMC, RF/Wireless , Telecom
Taiwan	EMC, RF, Telecom , Safety
Hong Kong	RF/Wireless ,Telecom
Australia	EMC, RF, Telecom , Safety
Korea	EMI, EMS, RF , Telecom, Safety
Japan	EMI, RF/Wireless, Telecom
Singapore	EMC , RF , Telecom
Europe	EMC, RF, Telecom , Safety



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1 EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programme was to demonstrate compliance of the MEERA INTERNATIONAL LIMITED, 7inch Tablet PC and model: MT-708 i against the current Stipulated Standards. The 7inch Tablet PC has demonstrated compliance with the FCC Part 15.247: 2013, ANSI C63.4: 2009.

EUT Information

EUT Description	7inch Tablet PC
Main Model	MT-708 i
Serial Model	NTB-708 i, MT-788 i, NTB-788 i
Antenna Gain	GSM850: 0.9 dBi UMTS-FDD Band II/PCS1900: 1.6 dBi Bluetooth:1.8 dBi WIFI: 1.8 dBi
Input Power	Li-ion Battery: 3.7V 2800mAh 10.36Wh Nominal Voltage: POWER SUPPLY: Model: BY-M08-0500200U Input: AC 100-240V 50/60Hz 0.5A Output: DC 5V 2A
Classification Per Stipulated Test Standard	FCC Part 15.247: 2013, ANSI C63.4: 2009

Note: in this report, we choice the MT-708 i to test, and all these models are identical in circuitry and RF module, except model name for marketing reasons.

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2 TECHNICAL DETAILS

Purpose	Compliance testing of 7inch Tablet PC with stipulated standard
Applicant / Client	MEERA INTERNATIONAL LIMITED 301 Kam On Building, 176A Queen's Road Central, Central, Hong Kong, China
Manufacturer	Shenzhen Beneworld Technology Co. Ltd. Building 3, Huangtian Industrial Park, Xixiang, Baoan District, Shenzhen, Guangdong, China
Laboratory performing the tests	SIEMIC (Nanjing-China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel: +86(25)86730128/86730129 Fax: +86(25)86730127 Email: China@siemic.com.cn
Test report reference number	13021129-FCC-R3
Date EUT received	December 02, 2013
Standard applied	FCC Part 15.247: 2013, ANSI C63.4: 2009
Dates of test (from – to)	December 26, 2013 to January 05, 2014
No of Units :	#1
Equipment Category :	Spread Spectrum System/Device
Trade Name :	N/A
RF Operating Frequency (ies)	GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band II TX : 1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz 802.11b/g/n: 2412-2462 MHz Bluetooth : 2402-2480 MHz
Number of Channels	299CH (PCS1900) and 124CH (GSM850) UMTS-FDD Band II : 277CH Bluetooth: 79CH 802.11b/g/n: 11CH
Modulation	GSM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: CCK/OFDM Bluetooth: GFSK& π /4-DQPSK &8DPSK
GPRS Multi-slot class	8/10/12
Port	Earphone Port, HDMI Port, USB Port
FCC ID :	2AASXMTNTB708788I



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3 MODIFICATION

Note: All the measured data was performed under the modified WWAN antenna.

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4 TEST SUMMARY

The product was tested in accordance with the following specifications.
All testing has been performed according to below product classification:

Test Results Summary

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB&20 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands	Compliance



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5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 §15.247 (i) and §2.1093 – RF Exposure

The EUT is a portable device, thus requires SAR evaluation;
please refer to SIEMIC RF Exposure Report: 13021129-FCC-H2

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5.2 §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

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

Antenna Connector Construction

The EUT has 2 antennas: . a monopole antenna for Bluetooth, the gain is 1.8 dBi;
a monopole antenna for WIFI, the gain is 1.8 dBi
. a PIFA antenna for GSM, the gain are 0.5 dBi for GSM, 1.6 dBi for PCS
. a PIFA antenna for WCDMA the gain is 1.6 dBi for Band II
which in accordance to section 15.203, please refer to the internal photos.

Result: Compliance.

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5.3 §15.247(a) (2) –DTS (6 dB&20 dB) CHANNEL BANDWIDTH

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.

2. Environmental Conditions

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar

3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is ± 1.5 dB.

4. Test date : December 26, 2013

Tested By : Deon Dai

Requirement(s): The minimum 6 dB bandwidth of a DTS transmission shall be at least 500 kHz. Within this document, this bandwidth is referred to as the DTS bandwidth. The procedures provided herein for measuring the maximum peak conducted output power assume the use of the DTS bandwidth.

Procedures:

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Result: Pass.

Please refer to the following tables and plots.

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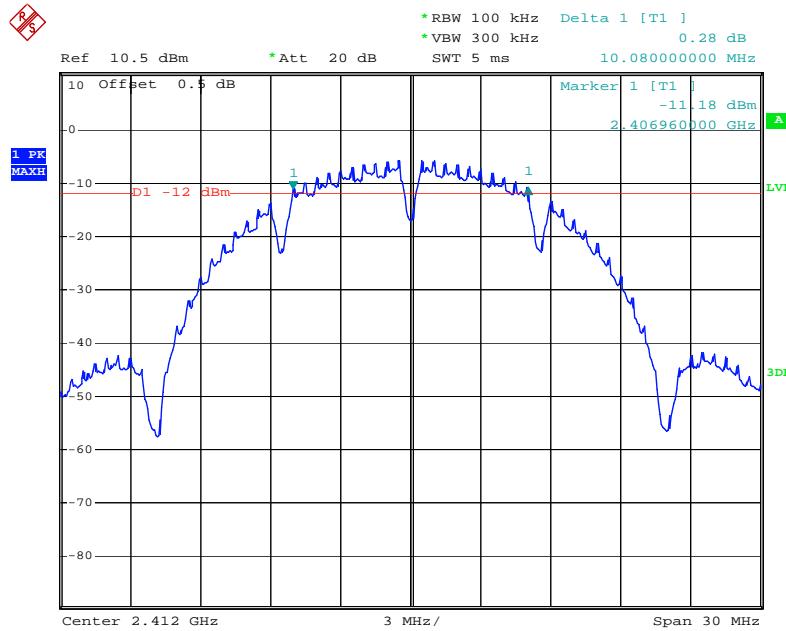
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6dB bandwidth:

Channel	Channel Frequency (MHz)	Data Rate (Mbps)	Measured 6dB Bandwidth (MHz)	FCC Part 15.247 Limit (kHz)
802.11b mode				
Low	2412	1	10.08	>500
Middle	2437	1	10.08	>500
High	2462	1	10.14	>500
802.11g mode				
Low	2412	6	16.56	>500
Middle	2437	6	16.56	>500
High	2462	6	16.56	>500
802.11n mode				
Low	2412	MCS0	17.76	>500
Middle	2437	MCS0	17.76	>500
High	2462	MCS0	17.76	>500

802.11b Low Channel

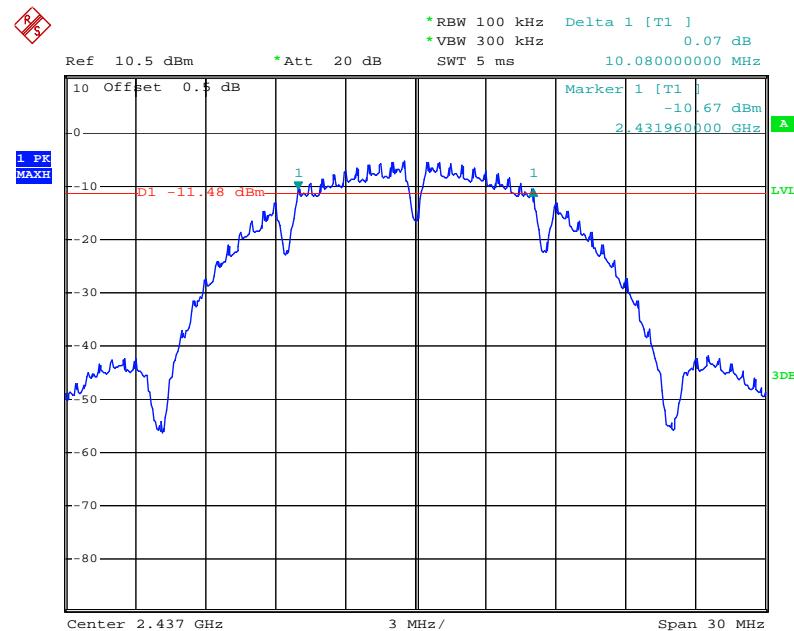
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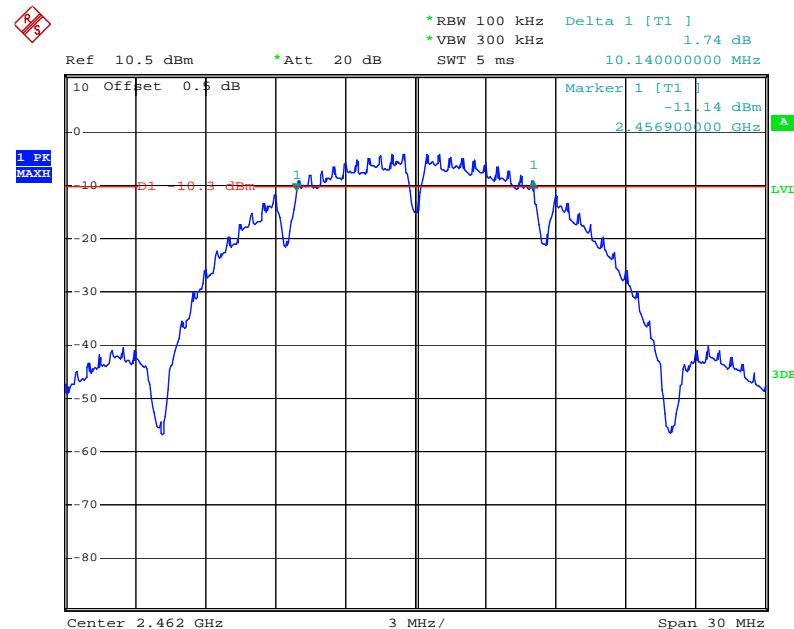
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802.11b Middle Channel



Date: 26.DEC.2013 16:35:56

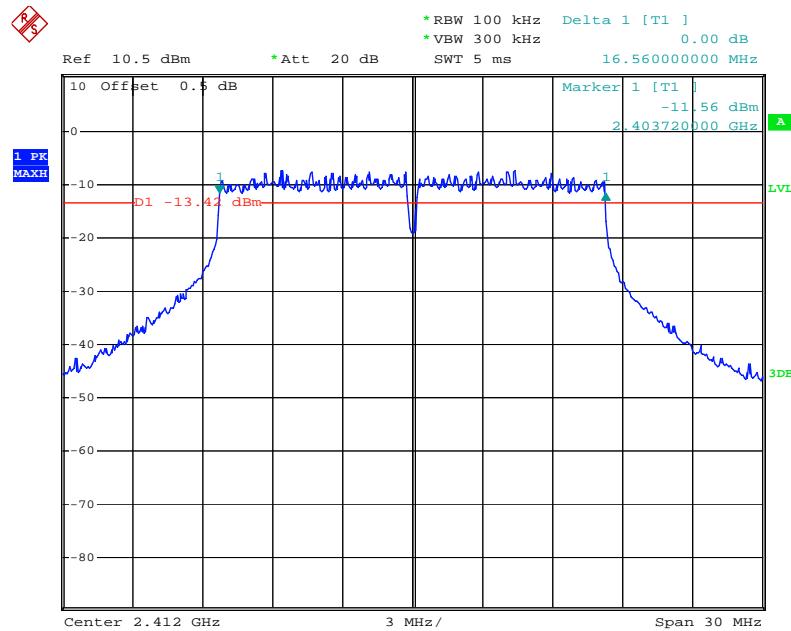
802.11b High Channel



Date: 26.DEC.2013 16:47:52

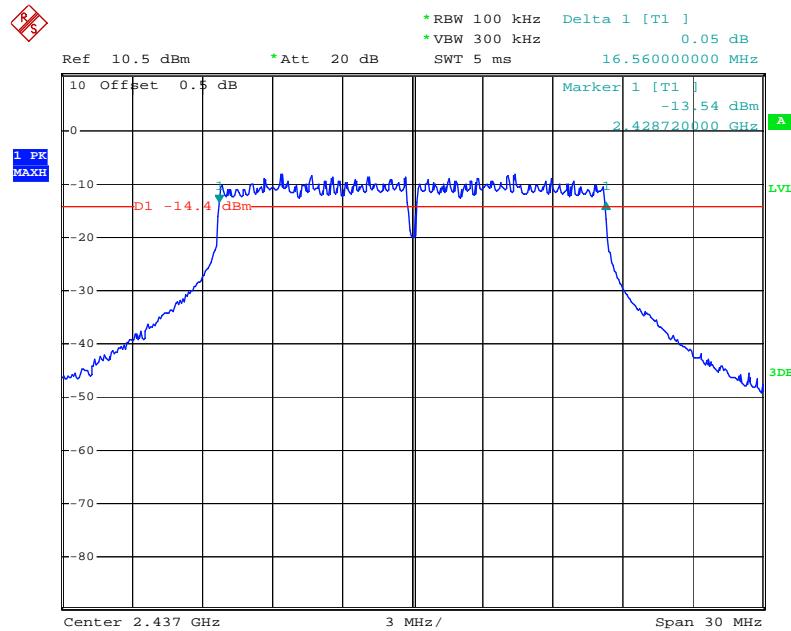


802.11g Low Channel



Date: 26.DEC.2013 17:40:51

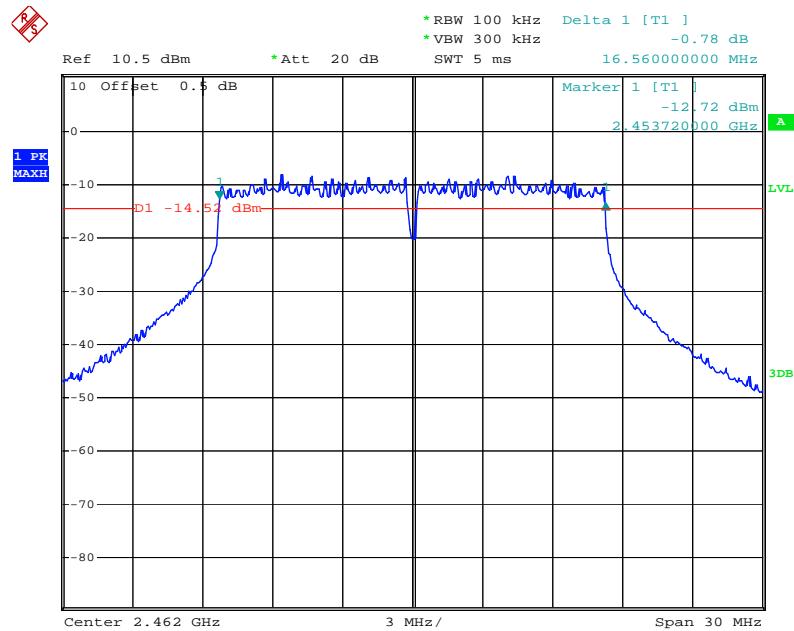
802.11g Middle Channel



Date: 26.DEC.2013 17:45:34

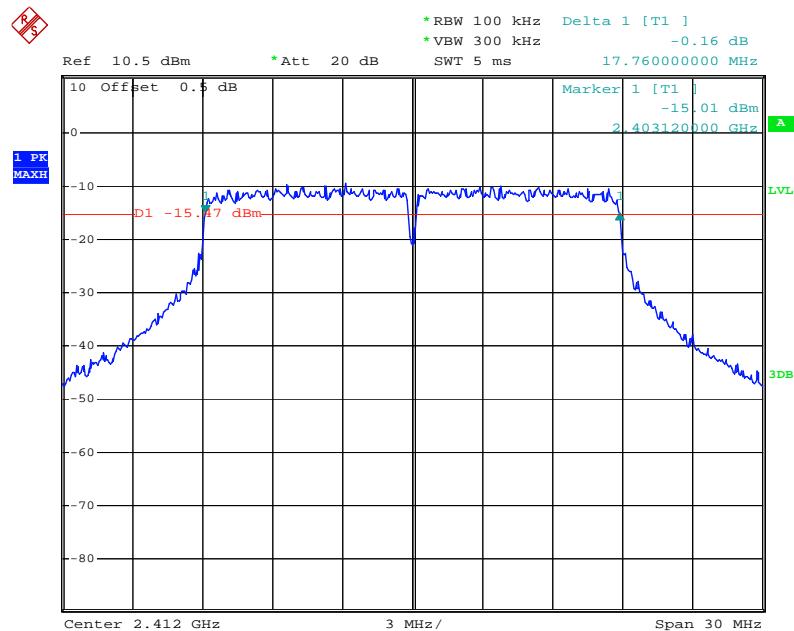


802.11g High Channel



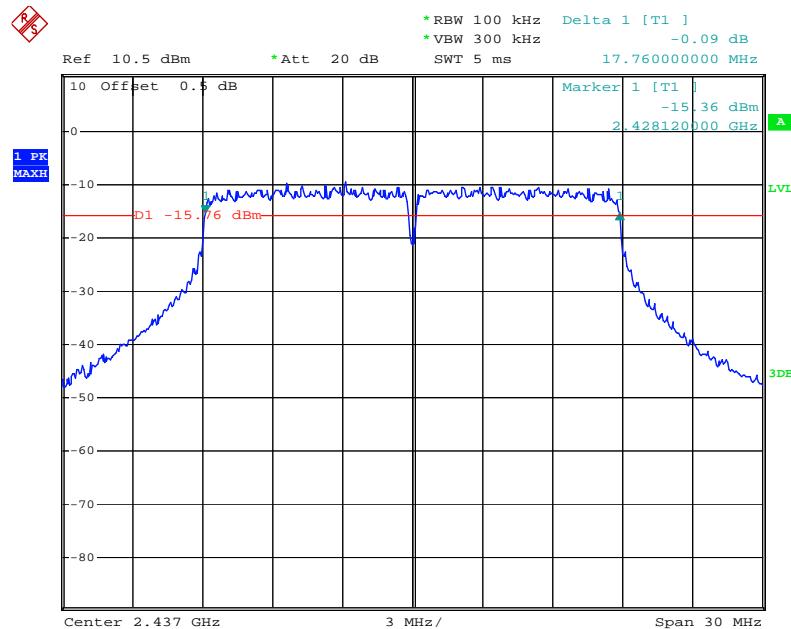
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802.11n Low Channel



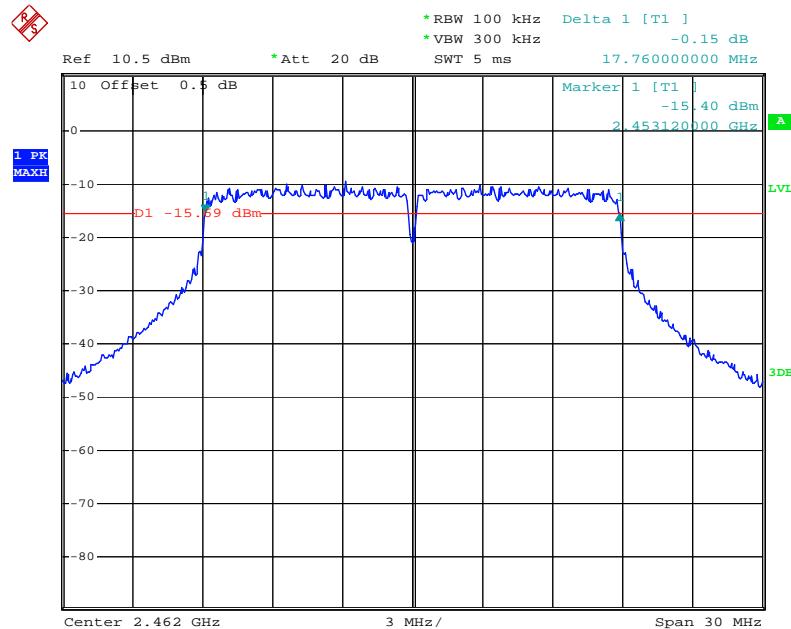
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802.11n Middle Channel



Date: 26.DEC.2013 18:07:09

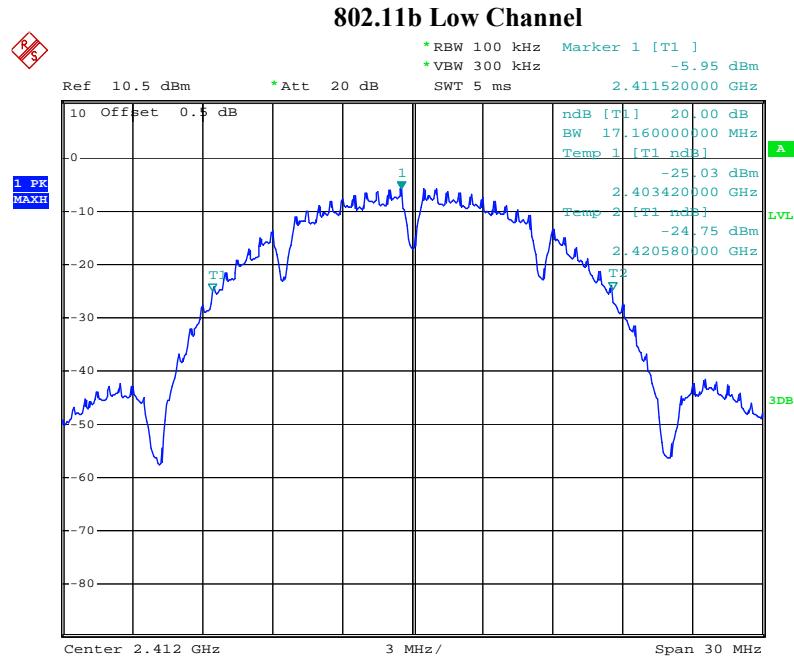
802.11n High Channel



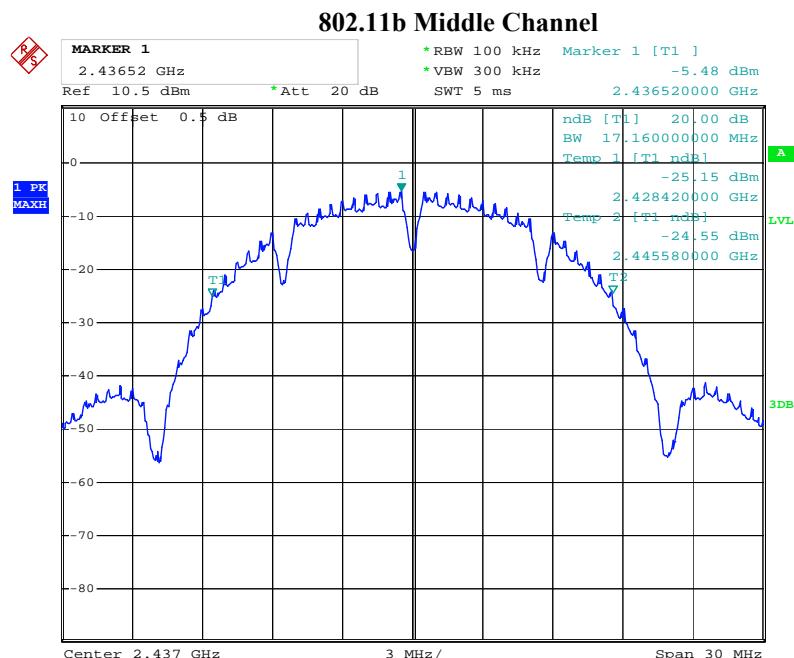
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The 20dB bandwidth:

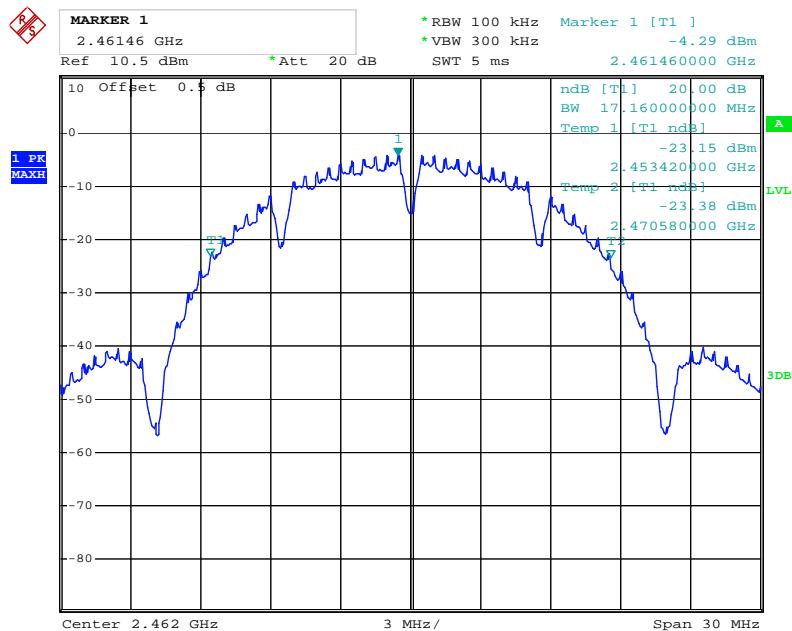


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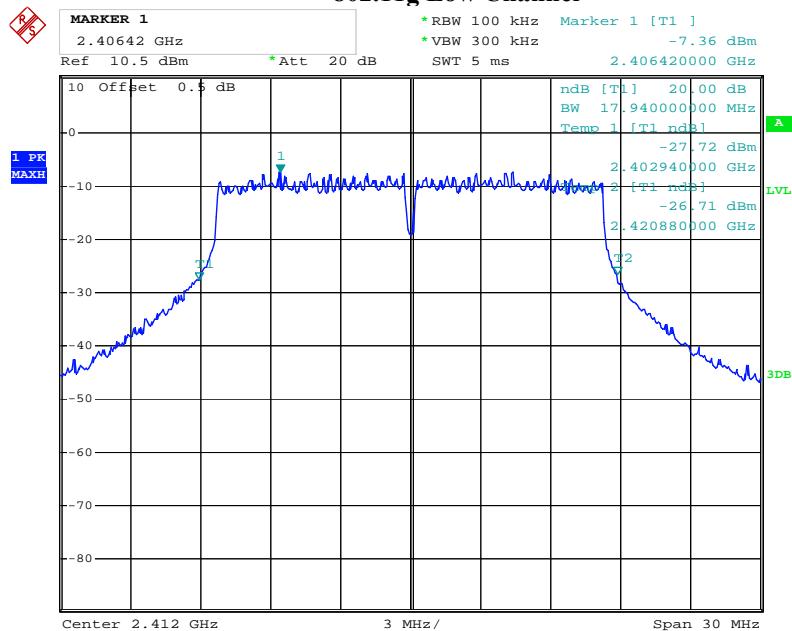
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802.11b High Channel



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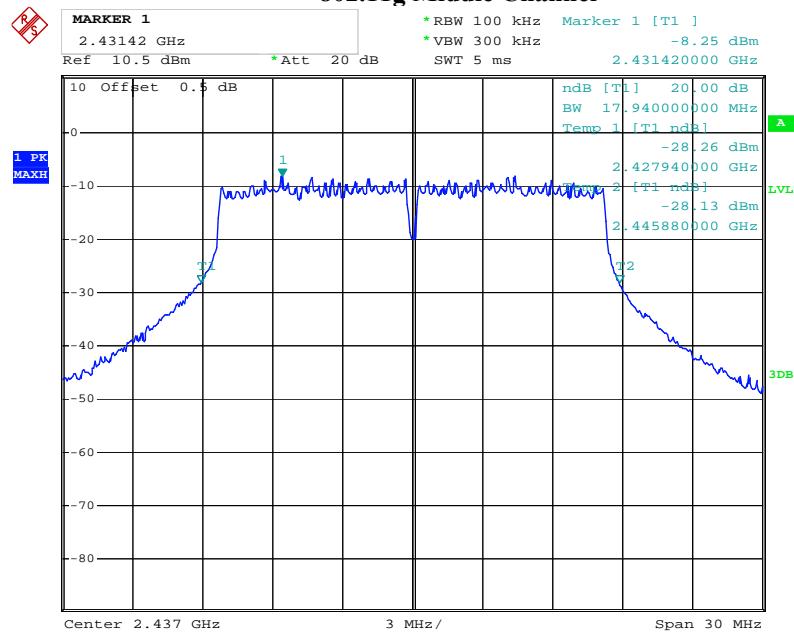
802.11g Low Channel



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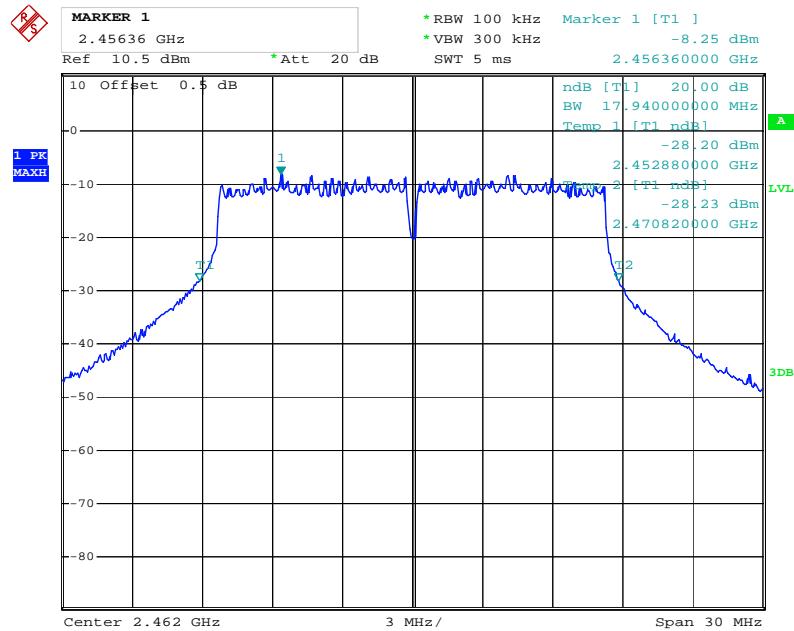


802.11g Middle Channel



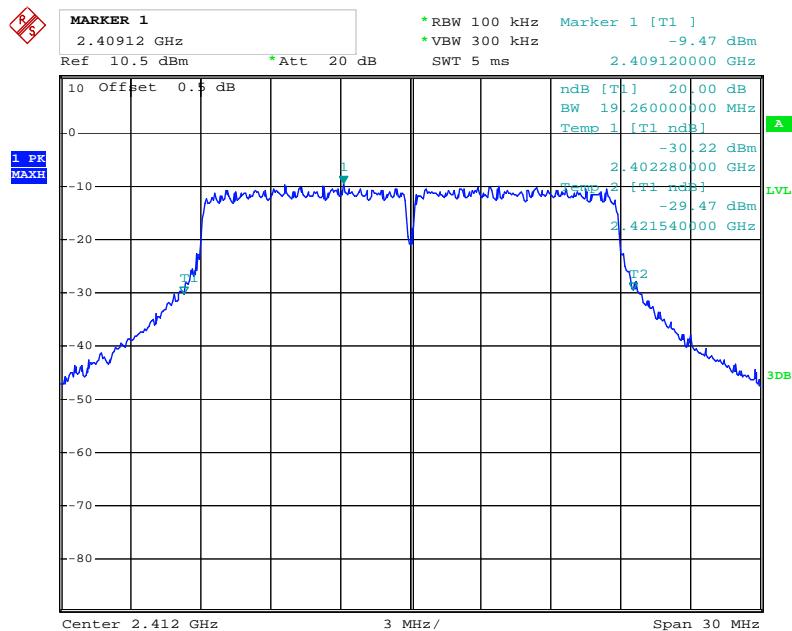
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802.11g High Channel



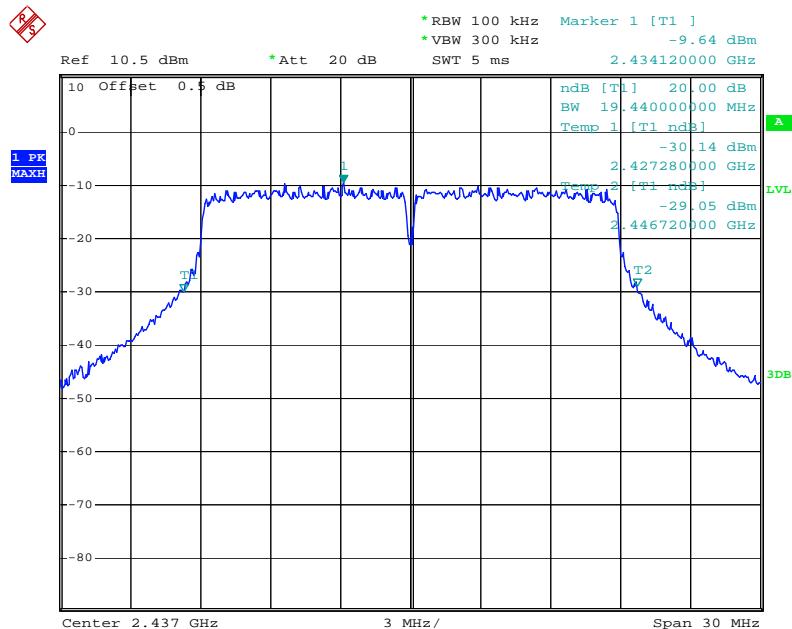
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802.11n Low Channel



Date: 26.DEC.2013 17:56:36

802.11n Middle Channel



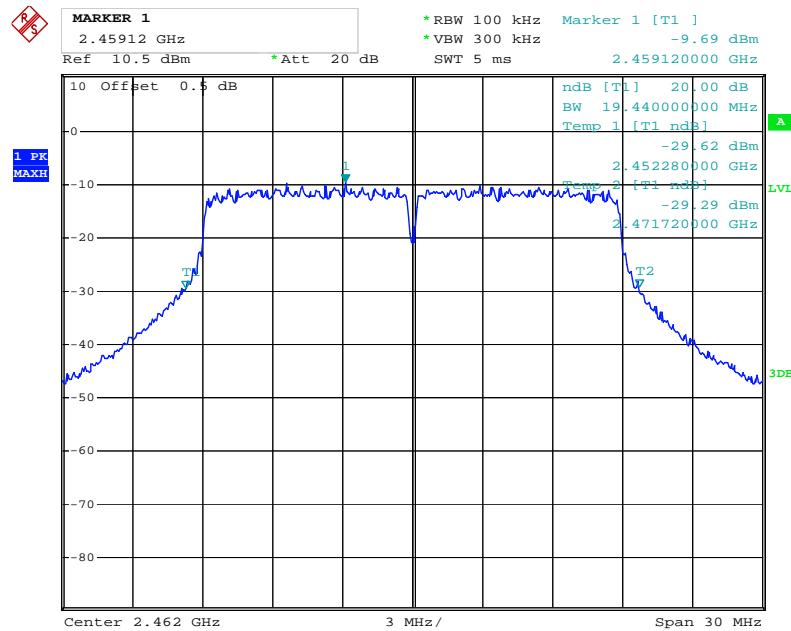
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802.11n High Channel



Date: 26.DEC.2013 18:11:55

5.4 §15.247(b) (3) - Conducted Maximum Output Power

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
4. Test date : December 26, 2013
Tested By : Deon Dai

Standard Requirement:

Maximum Peak Conducted Output Power

The following procedures can be used to determine the maximum peak conducted output power of a DTS EUT.

Maximum Conducted Output Power

§15.247(b)(3) permits the maximum (average) conducted output power to be measured as an alternative to the maximum peak conducted output power for demonstrating compliance to the limit. When these procedures are utilized, the power is referenced to the emission bandwidth (EBW) rather than the DTS bandwidth (see Section 2.0 for definitions).

When using a spectrum/signal analyzer to perform these measurements, it must be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW in order to ensure bin-to-bin spacing of $\leq \text{RBW}/2$ so that narrowband signals are not lost between frequency bins.

The ideal method for measuring the maximum (average) conducted output power is with the EUT is configured to transmit continuously (duty cycle $\geq 98\%$) at its maximum power control level. However, when this condition cannot be realized, video triggering or signal gating can be used to ensure that the measurements are performed only during periods when the EUT is transmitting at its maximum power control level. An option is also provided that can be used when none of the above requirements can be met with the available measurement instrumentation.

Procedures:

Maximum peak conducted output power:

Integrated band power method

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

1. Set the RBW = 1 MHz.
2. Set the VBW $\geq 3 \times \text{RBW}$
3. Set the span $\geq 1.5 \times \text{DTS bandwidth}$.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function. sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

Maximum conducted (average) output power:

Method AVGSA-1 (trace averaging with the EUT transmitting at full power throughout each sweep)

This procedure should be used with an RMS power averaging detector; however, a sample detector can be used when an RMS detector is not available. This is the baseline method for measuring the maximum (average) conducted output power.

1. Set span to at least 1.5 times the OBW.
2. Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

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3. Set VBW \geq 3 x RBW.
4. Number of points in sweep \geq 2 x span / RBW. (This gives bin-to-bin spacing \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
5. Sweep time = auto.
6. Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
7. If transmit duty cycle $<$ 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
8. Trace average at least 100 traces in power averaging (i.e., RMS) mode.
9. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Test Result: Pass.

Please refer to the following tables and plots.

The Power

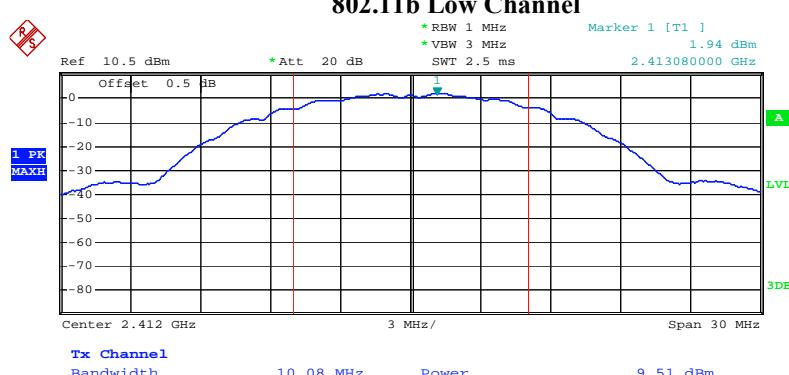
Channel	Channel Frequency (MHz)	Data Rate (Mbps)	PK Output Power (dBm)	AV Output Power (dBm)	Limit (dBm)
802.11b mode					
Low	2412	1	9.51	6.87	30
Middle	2437	1	8.22	5.38	30
High	2462	1	8.04	5.40	30
802.11g mode					
Low	2412	6	11.81	5.38	30
Middle	2437	6	11.83	5.17	30
High	2462	6	11.87	5.20	30
802.11n mode					
Low	2412	MCS0	11.34	4.37	30
Middle	2437	MCS0	11.45	4.45	30
High	2462	MCS0	11.44	4.47	30

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The Peak Power



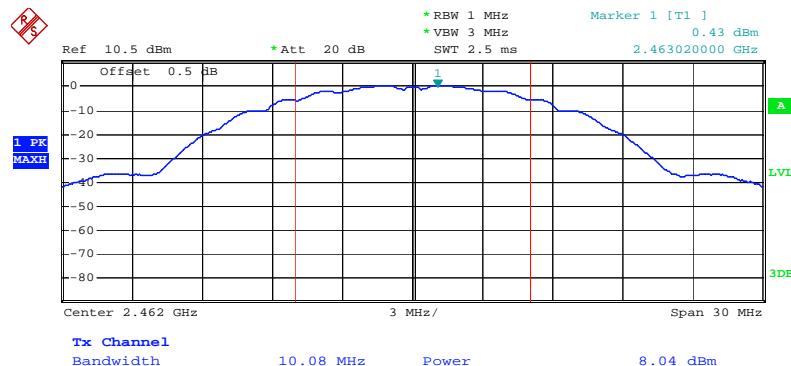
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802.11b Middle Channel



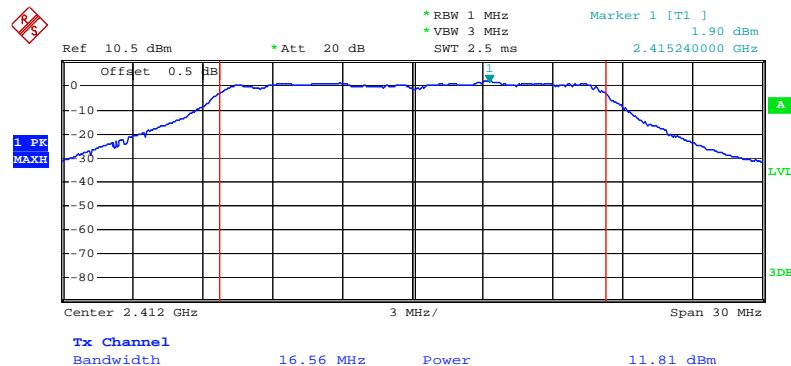
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802.11b High Channel



Date: 26.DEC.2013 16:48:54

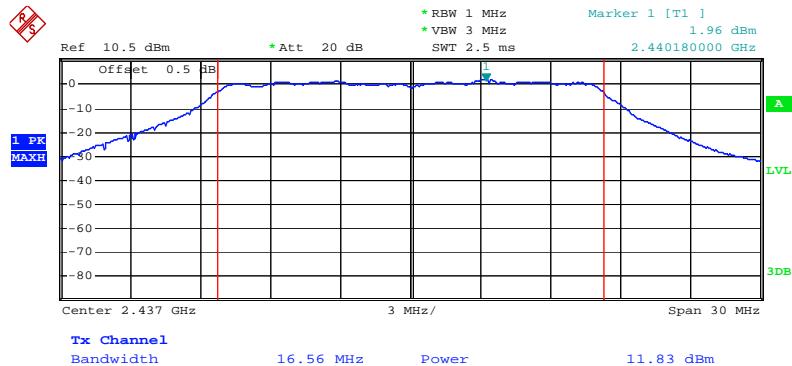
802.11g Low Channel



Date: 26.DEC.2013 17:42:34

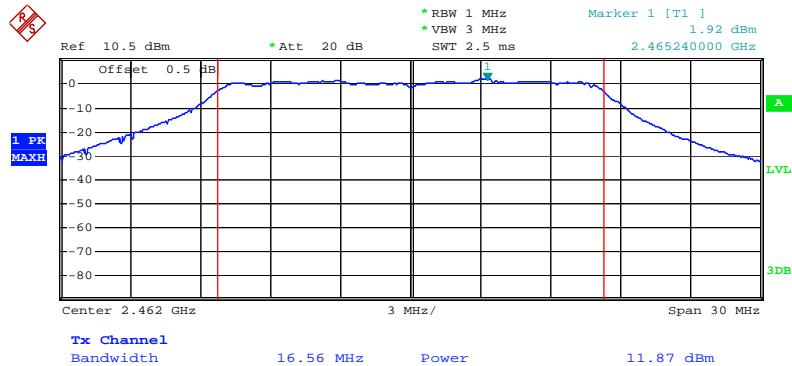


802.11g Middle Channel



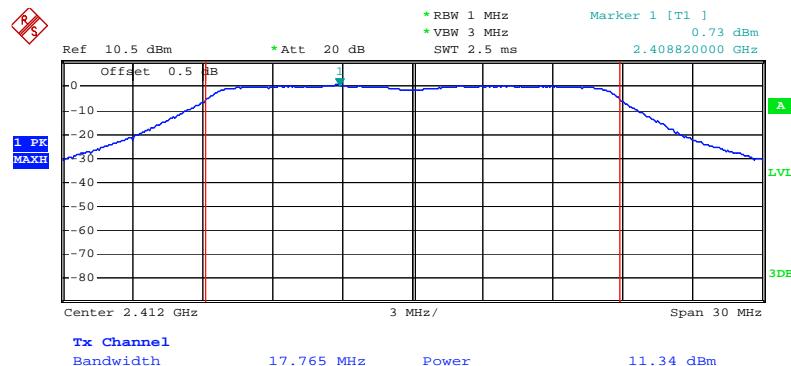
Date: 26.DEC.2013 17:46:42

802.11g High Channel



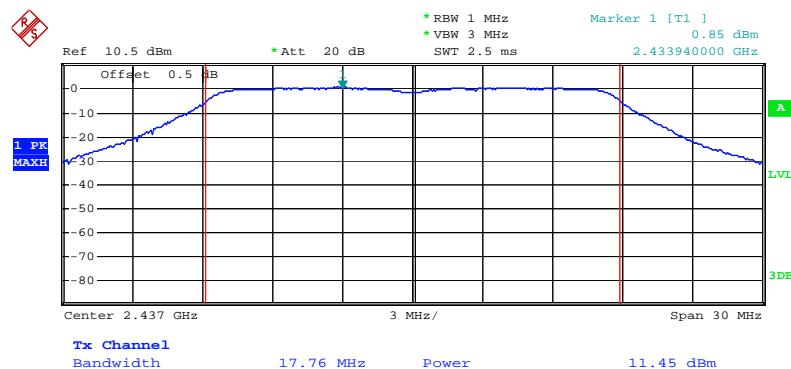
Date: 26.DEC.2013 17:49:08

802.11n Low Channel



Date: 26.DEC.2013 17:57:46

802.11n Middle Channel



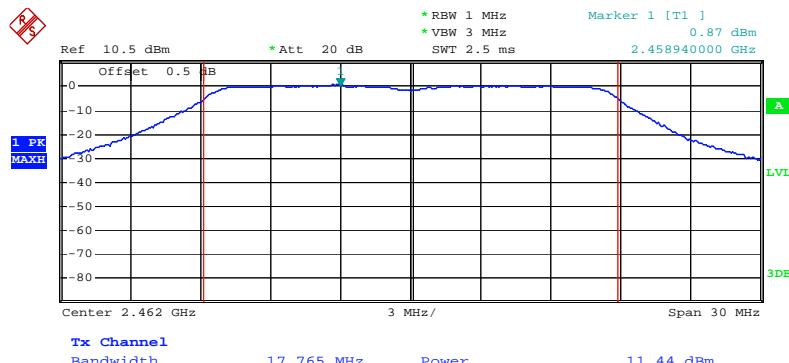
Date: 26.DEC.2013 18:08:20

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

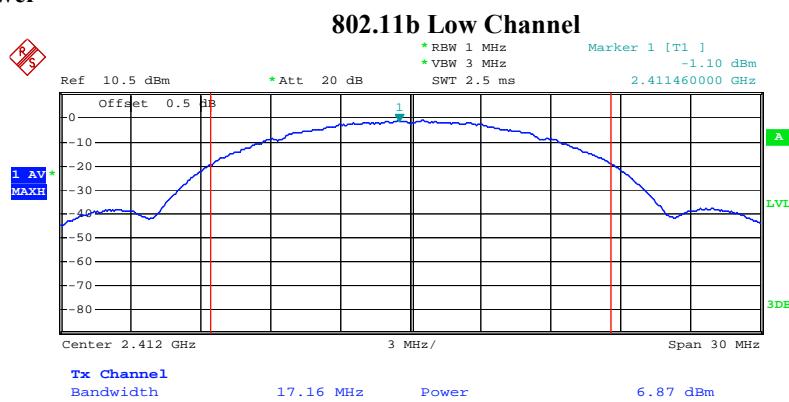
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802.11n High Channel



Date: 26.DEC.2013 18:13:37

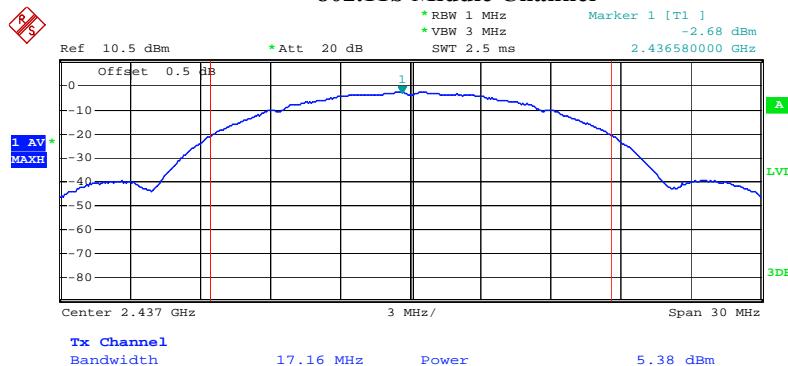
The Average Power



Date: 26.DEC.2013 16:28:40

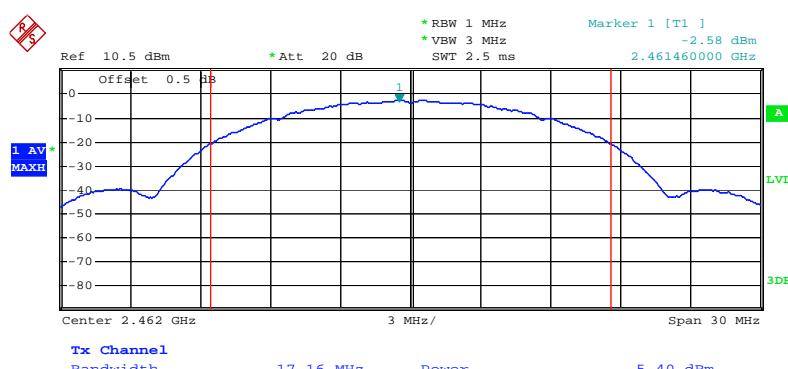


802.11b Middle Channel



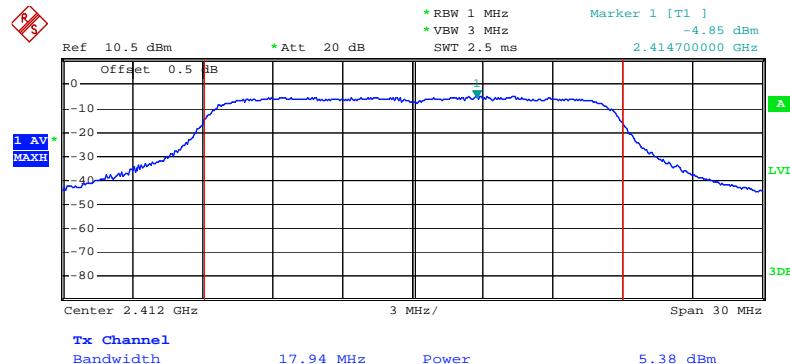
Date: 26.DEC.2013 16:51:19

802.11b High Channel



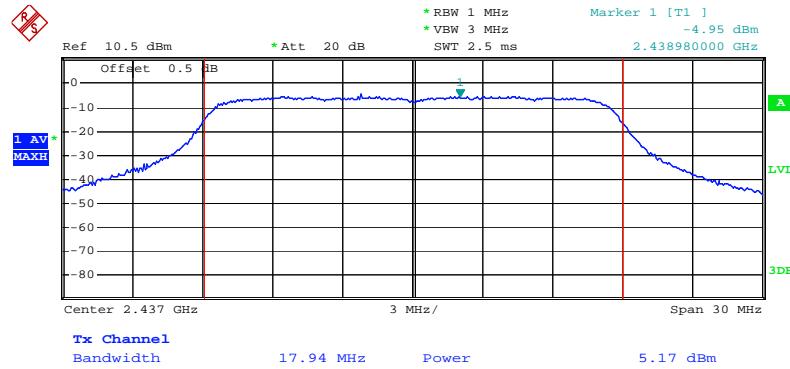
Date: 26.DEC.2013 16:49:24

802.11g Low Channel



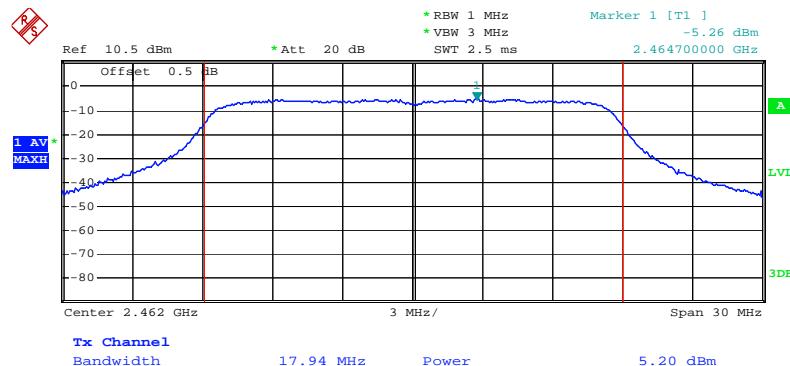
Date: 26.DEC.2013 17:41:42

802.11g Middle Channel



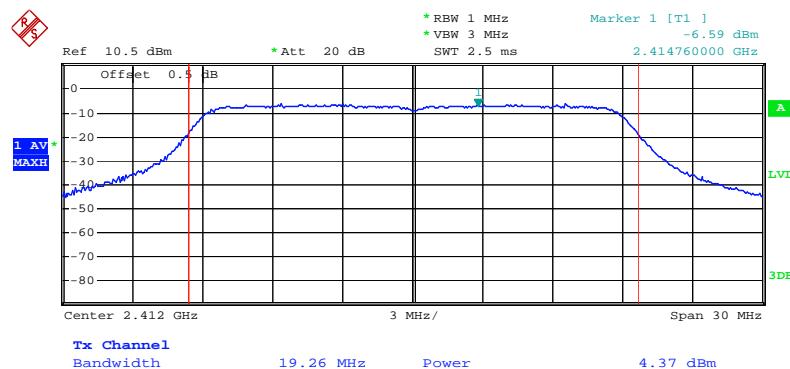
Date: 26.DEC.2013 17:46:21

802.11g High Channel



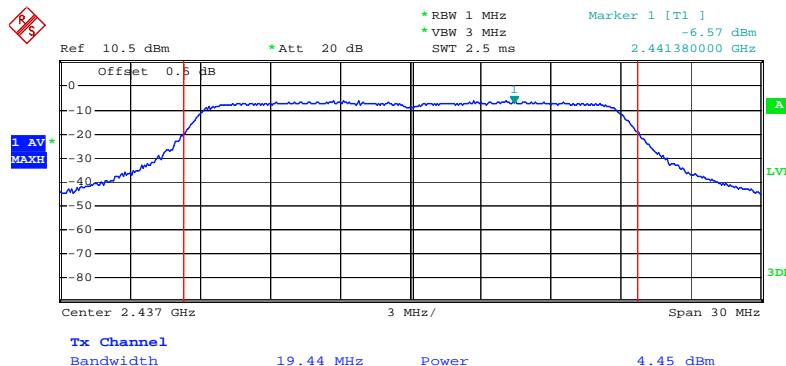
Date: 26.DEC.2013 17:49:56

802.11n Low Channel



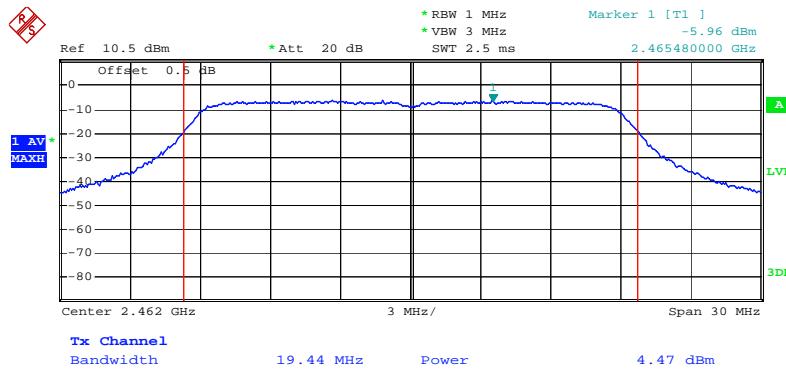
Date: 26.DEC.2013 17:57:10

802.11n Middle Channel



Date: 26.DEC.2013 18:07:54

802.11n High Channel



Date: 26.DEC.2013 18:12:30

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13021129-FCC-R3
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5.5 §15.247(e) - Power Spectral Density

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power. The spectrum analyzer was connected to the antenna terminal.

2. Environmental Conditions

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar

3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.

4. Test date :December 26, 2013

Tested By : Deon Dai

Requirement(s):

A conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the DTS bandwidth is specified during any time interval of continuous transmission.⁴ By rule, the same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e., if maximum peak conducted output power was measured then the peak PSD procedure shall be used and if maximum conducted output power was measured then the average PSD procedure shall be used).

If the average PSD is measured with a power averaging (RMS) detector or a sample detector, then the spectrum analyzer must be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW in order to ensure bin-to-bin spacing of $\leq \text{RBW}/2$ so that narrowband signals are not lost between frequency bins.

Procedures:

This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

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 ≥ 3 kHz.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Result: Pass.

**SIEMIC, INC.**

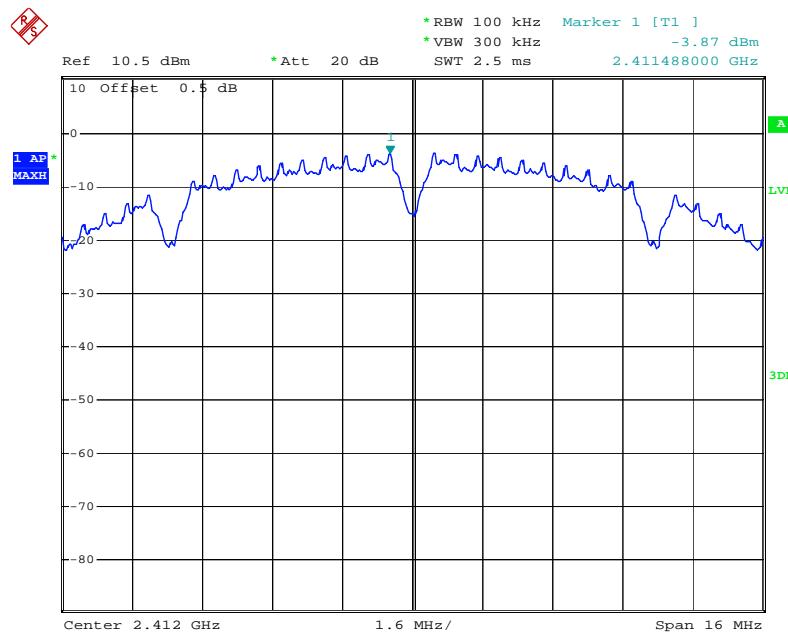
Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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Please refer to the following tables and plots.

Channel	Frequency (MHz)	Data Rate	PSD (dBm)	Limit (dBm)
802.11b mode				
Low	2412	1	-3.87	8
Middle	2437	1	-5.38	8
High	2462	1	-5.45	8
802.11g mode				
Low	2412	6	-7.89	8
Middle	2437	6	-8.07	8
High	2462	6	-8.18	8
802.11n mode				
Low	2412	MCS0	-9.99	8
Middle	2437	MCS0	-9.74	8
High	2462	MCS0	-10.16	8

Power Spectral Density, 802.11b Low Channel



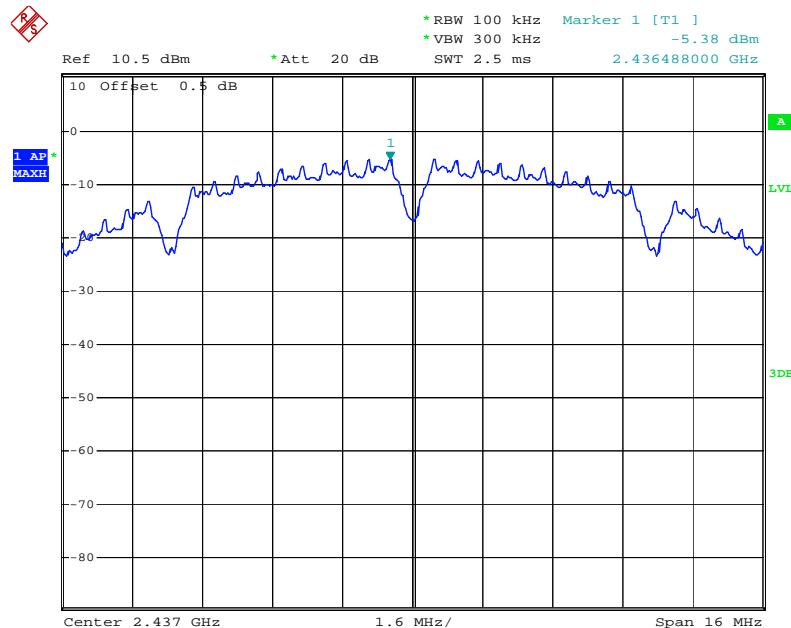
Date: 26.DEC.2013 18:19:36

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

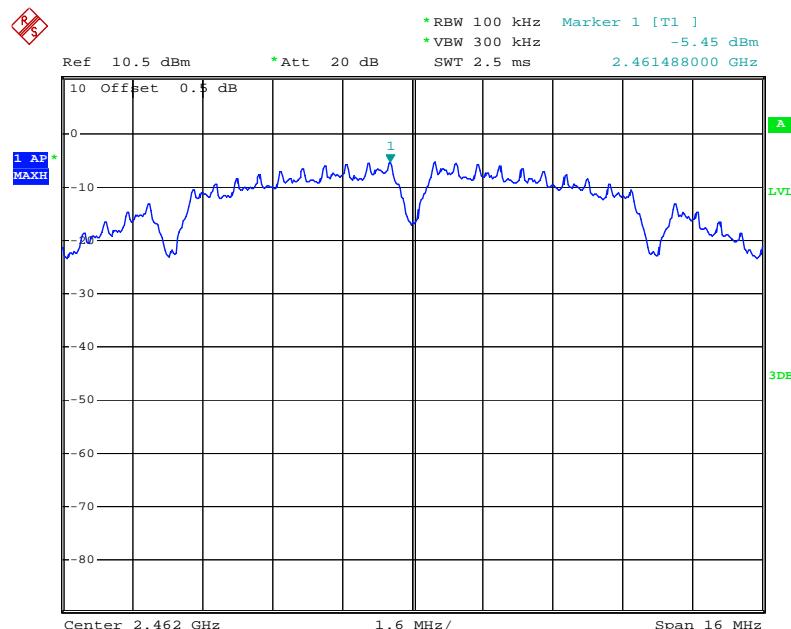
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Power Spectral Density, 802.11b Middle Channel



Date: 26.DEC.2013 18:20:29

Power Spectral Density, 802.11b High Channel



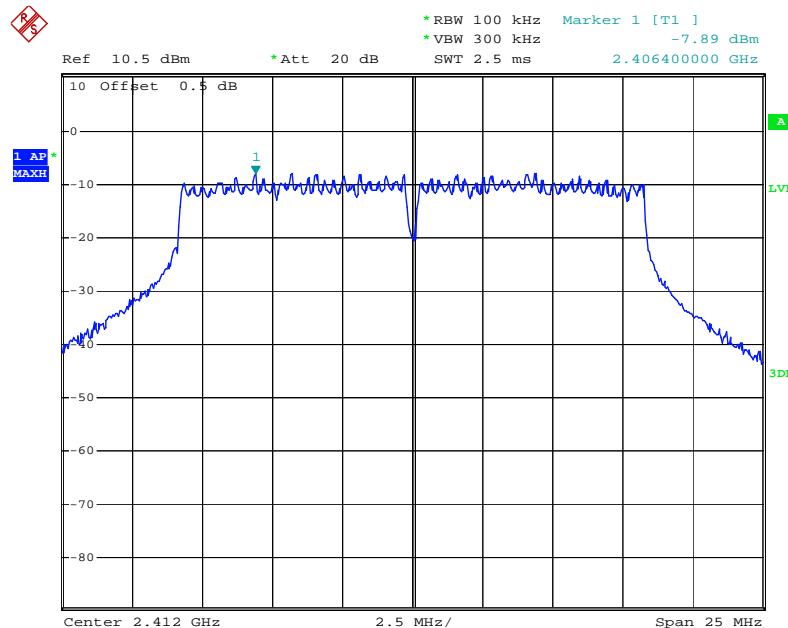
Date: 26.DEC.2013 18:21:16

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

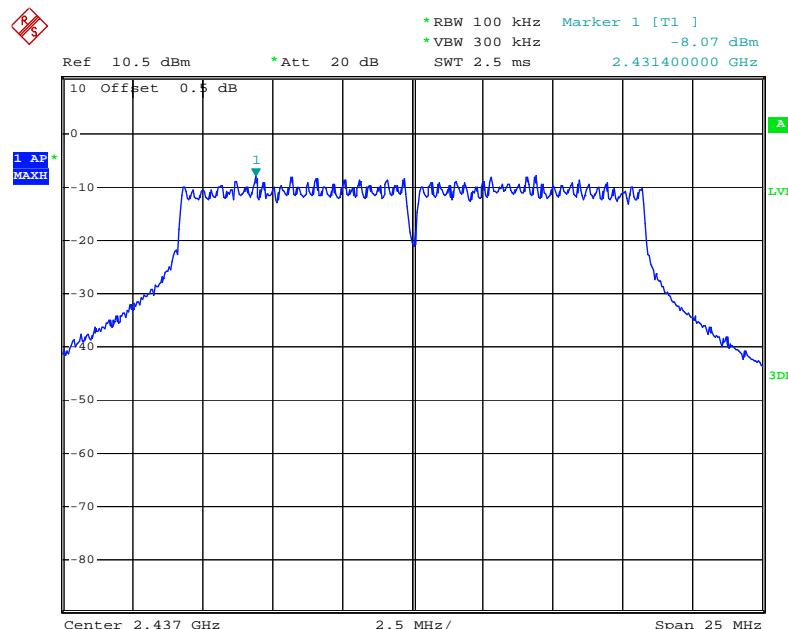
Report No.: 13021129-FCC-R3
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Power Spectral Density, 802.11g Low Channel



Date: 26.DEC.2013 18:24:34

Power Spectral Density, 802.11g Middle Channel



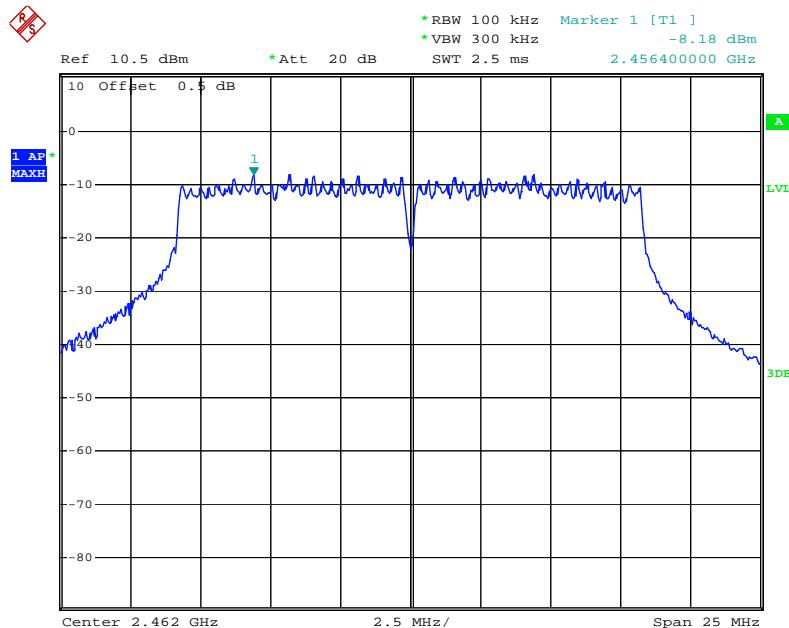
Date: 26.DEC.2013 18:25:23

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

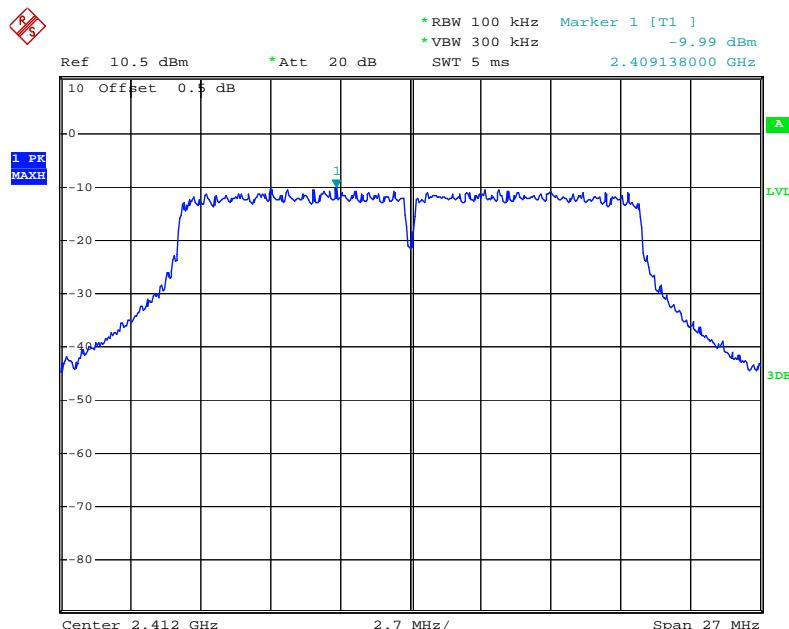
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Power Spectral Density, 802.11g High Channel



Date: 26.DEC.2013 18:26:12

Power Spectral Density, 802.11n Low Channel



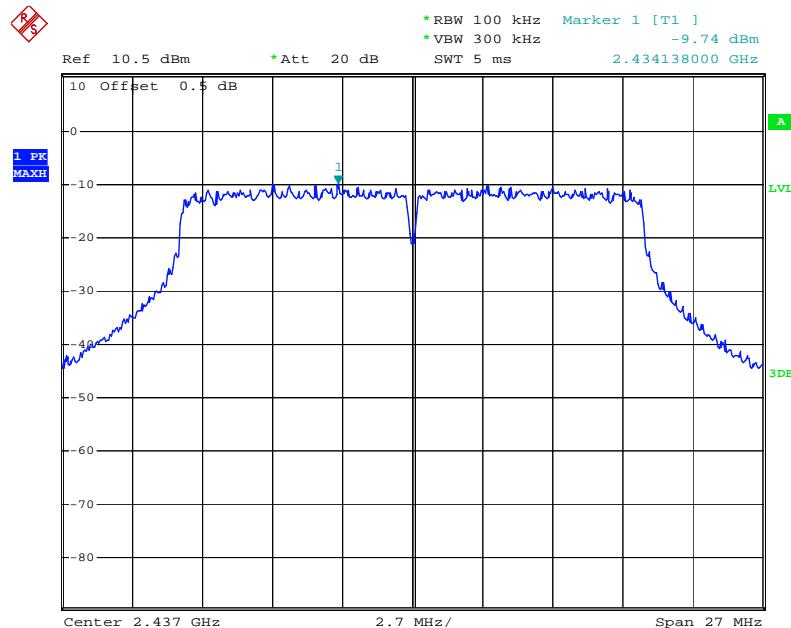
Date: 26.DEC.2013 18:05:14

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

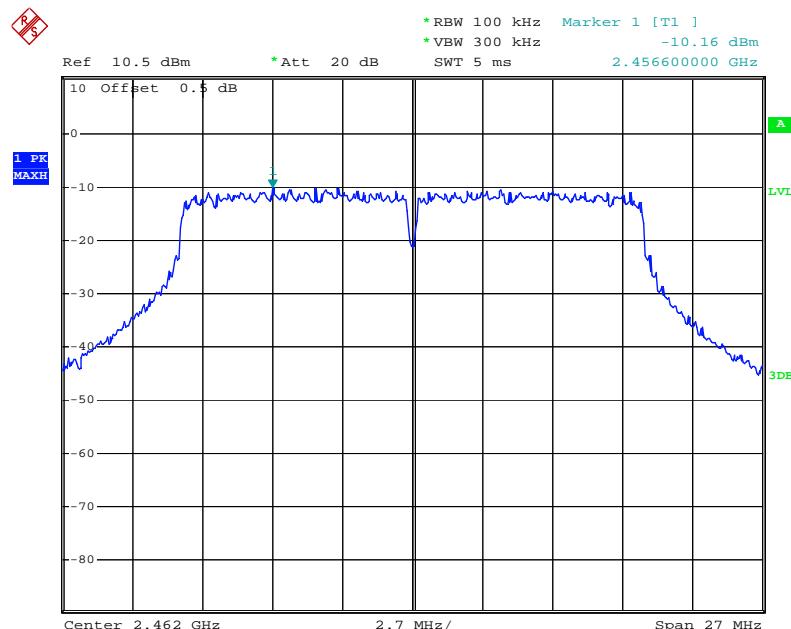
Report No.: 13021129-FCC-R3
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Power Spectral Density, 802.11n Middle Channel



Date: 26.DEC.2013 18:08:52

Power Spectral Density, 802.11n High Channel



Date: 26.DEC.2013 18:14:06

**SIEMIC, INC.**

Accessing global markets

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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5.6 §15.247(d) –Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

1. In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

2.	Environmental Conditions	Temperature	20 °C
		Relative Humidity	50%
		Atmospheric Pressure	1019mbar

3. Test date : January 05, 2014
Tested By : Deon Dai

Requirement(s):**Band-Edge Measurements**

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

Procedures: (Radiated Method Only)

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on the rotated table inside the anechoic chamber without connection to measurement instrument. Turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range. Repeat above procedures until all measured frequencies were complete.
3. Set band RBW=1MHz, VBW=3MHz with a convenient frequency span from band edge.
4. Find the highest point in edge frequency, and then calculated results.
5. Repeat above procedures until all measured frequencies were complete.

Test Result: Pass.

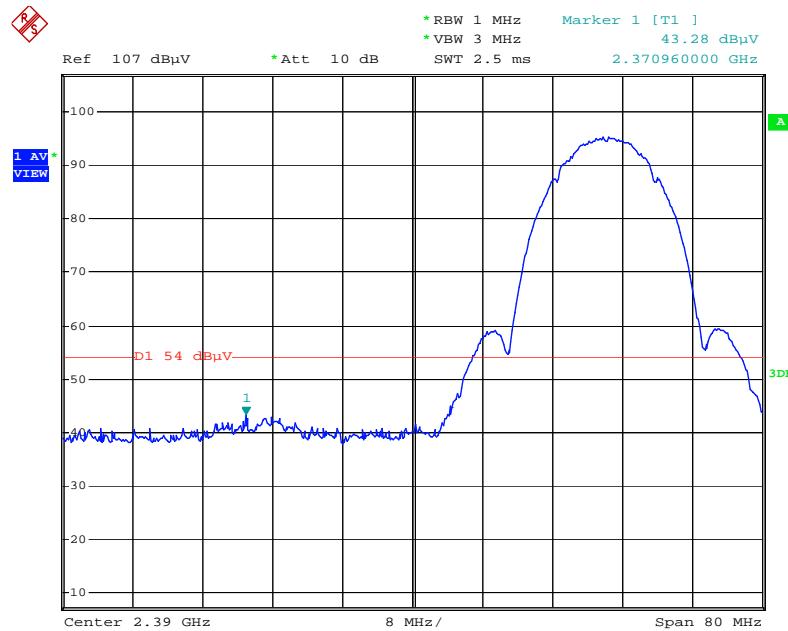
Please refer to the following tables and plots.

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

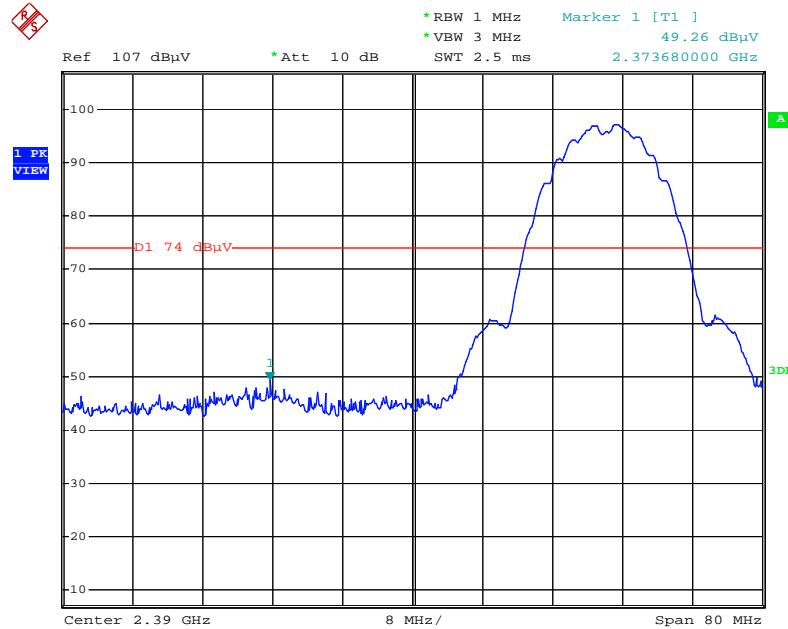
Report No.: 13021129-FCC-R3
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802.11b: Band Edge, Left Side (Average)



Date: 5.JAN.2014 15:33:17

802.11b: Band Edge, Left Side (Peak)



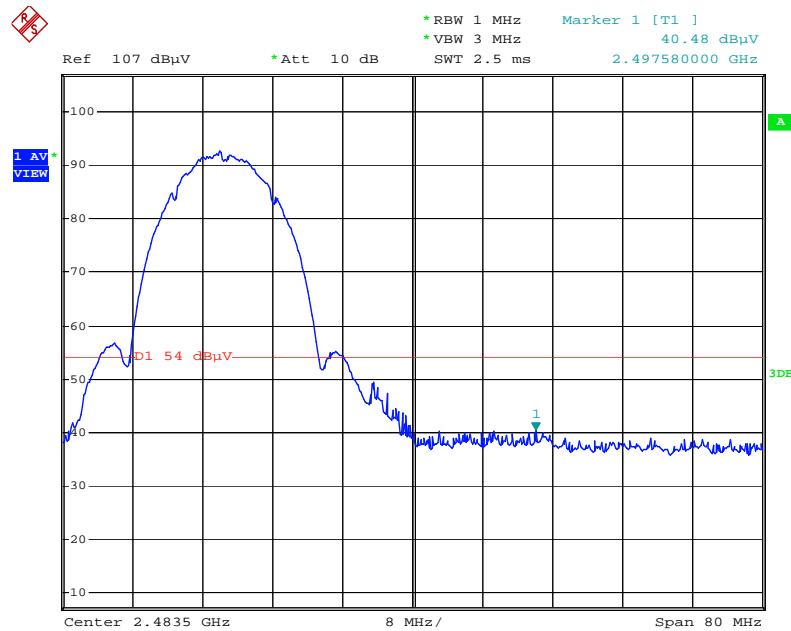
Date: 5.JAN.2014 15:31:22

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

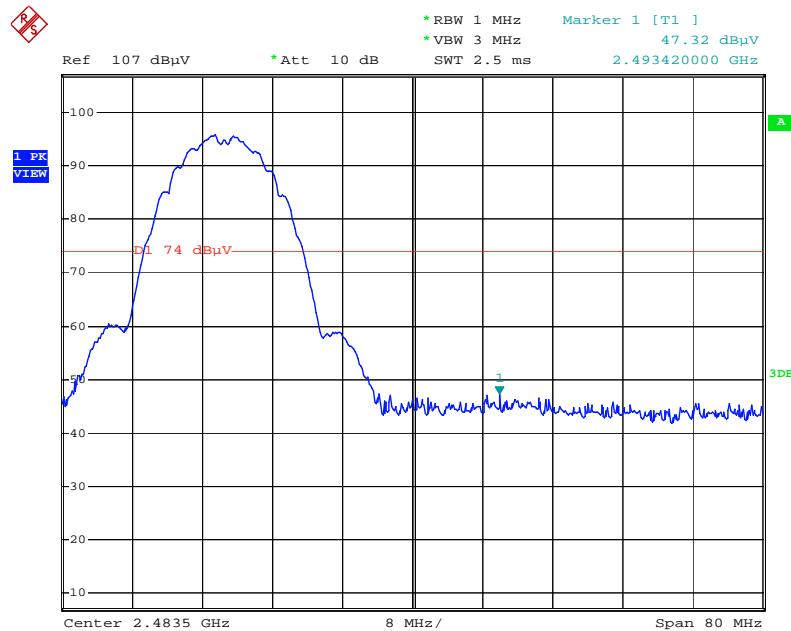
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802.11b: Band Edge, Right Side (Average)



Date: 5.JAN.2014 15:35:49

802.11b: Band Edge, Right Side (Peak)



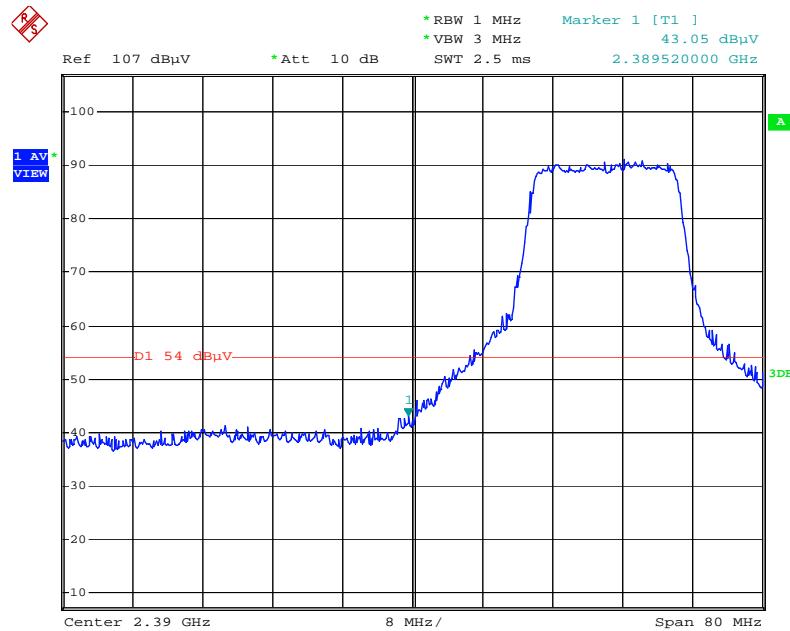
Date: 5.JAN.2014 15:36:41

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

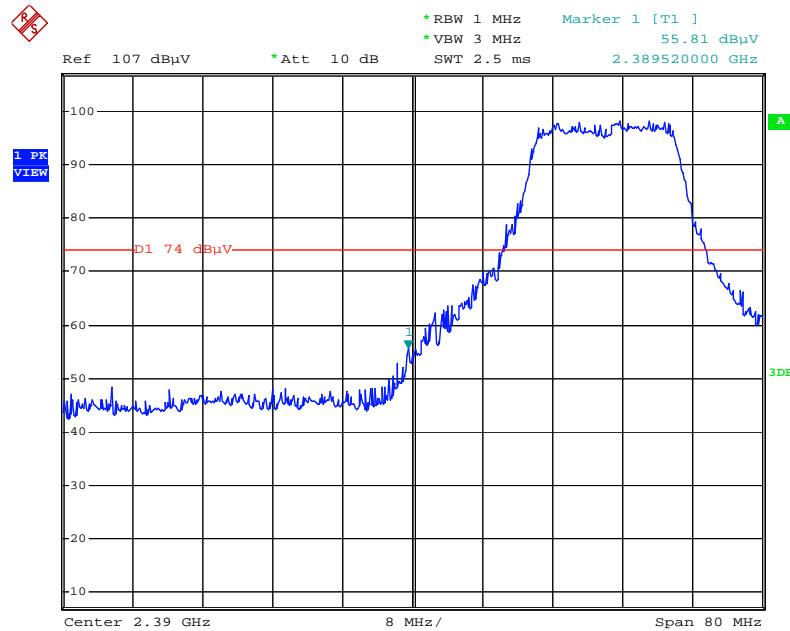
Report No.: 13021129-FCC-R3
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802.11g: Band Edge, Left Side (Average)



Date: 5.JAN.2014 15:48:00

802.11g: Band Edge, Left Side (Peak)



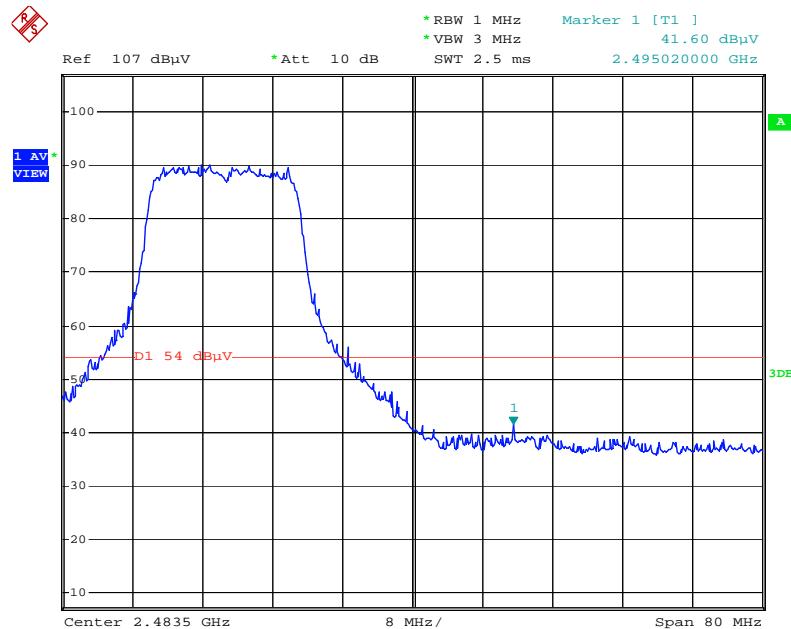
Date: 5.JAN.2014 15:47:11

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

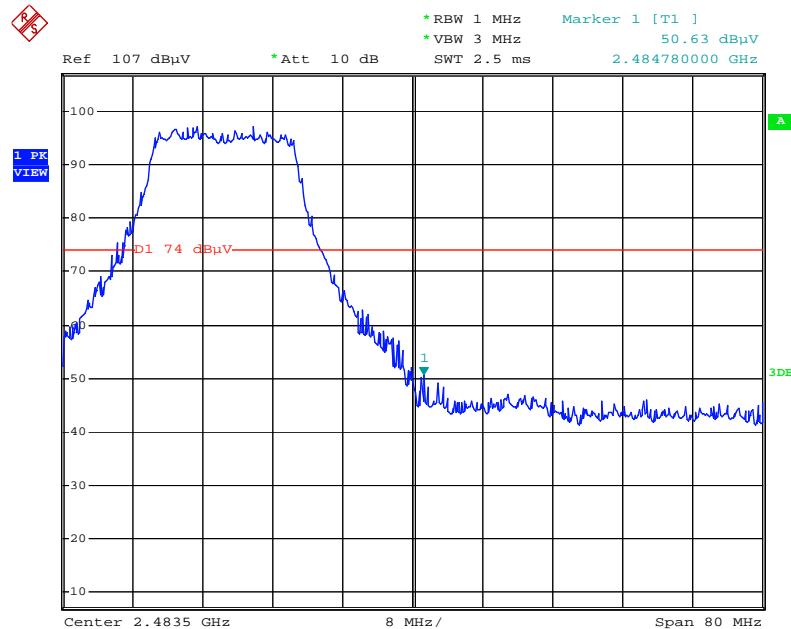
Report No.: 13021129-FCC-R3
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802.11g: Band Edge, Right Side (Average)



Date: 5.JAN.2014 15:52:45

802.11g: Band Edge, Right Side (Peak)



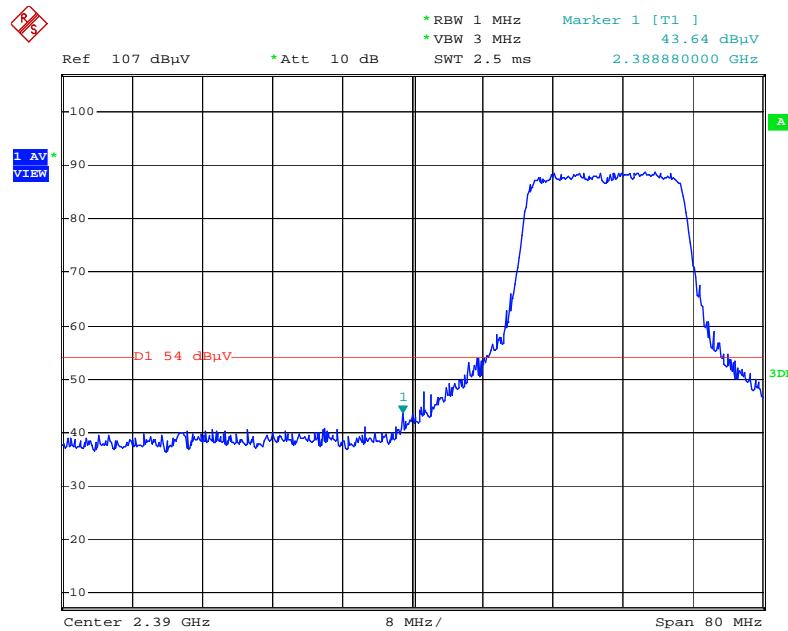
Date: 5.JAN.2014 15:53:36

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

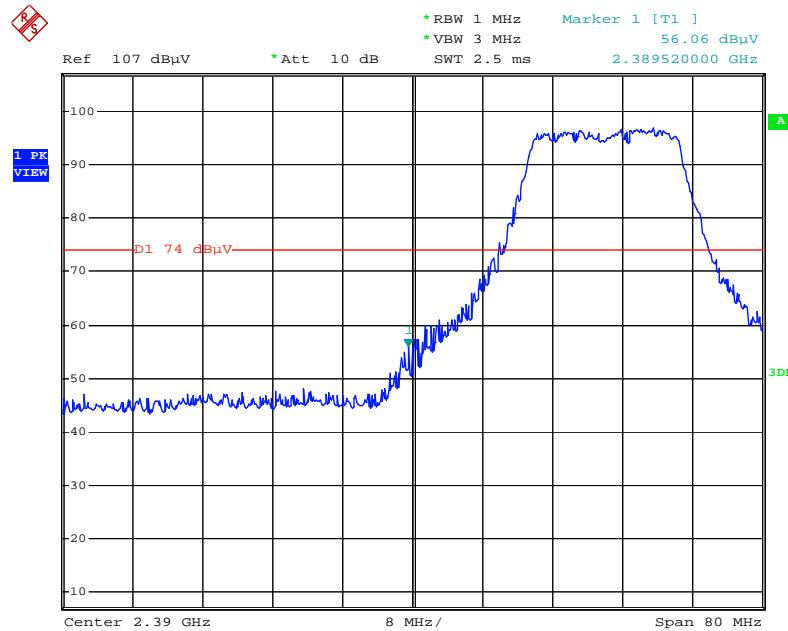
Report No.: 13021129-FCC-R3
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802.11n: Band Edge, Left Side (Average)



Date: 5.JAN.2014 15:58:31

802.11n: Band Edge, Left Side (Peak)



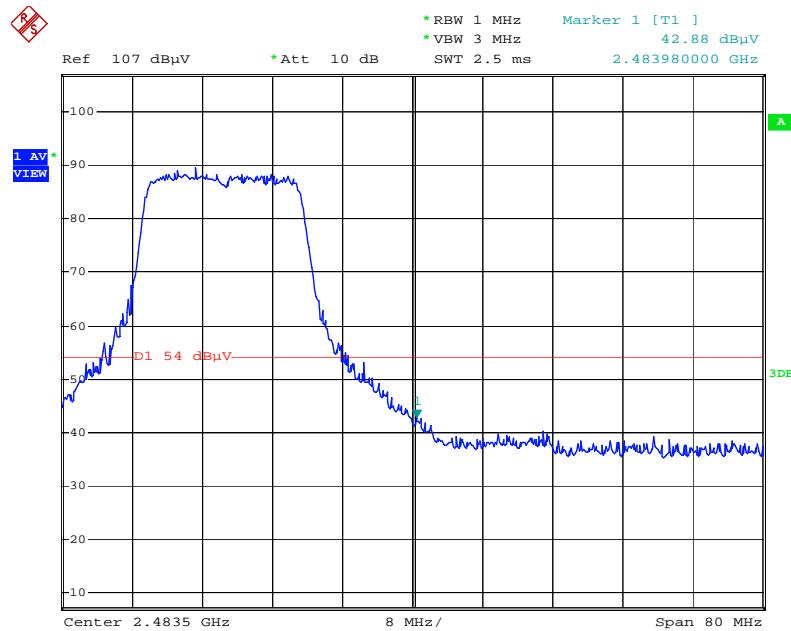
Date: 5.JAN.2014 15:57:49

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

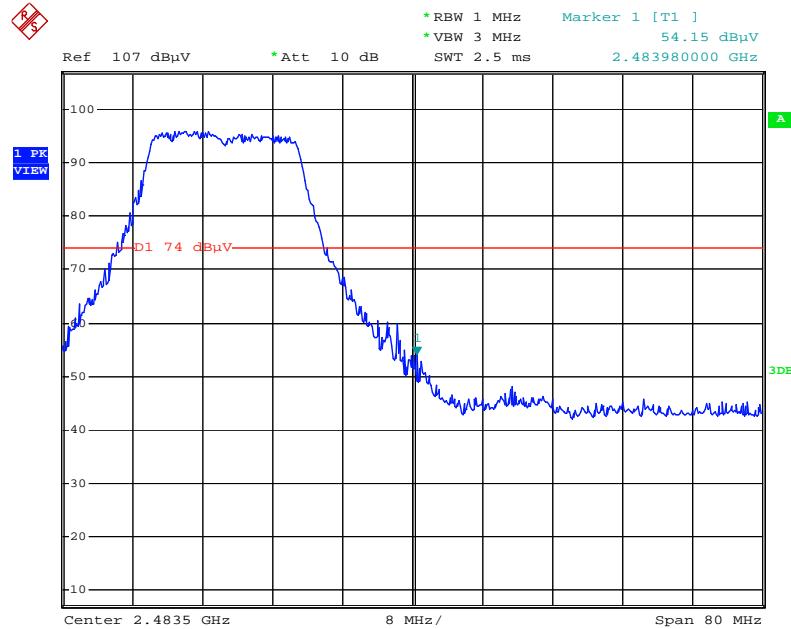
Report No.: 13021129-FCC-R3
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802.11n: Band Edge, Right Side (Average)



Date: 5.JAN.2014 16:00:36

802.11n: Band Edge, Right Side (Peak)



Date: 5.JAN.2014 16:01:51

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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5.7 §15.207 (a) - AC Power Line Conducted Emissions

Requirement:

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*Decreases with the logarithm of the frequency.

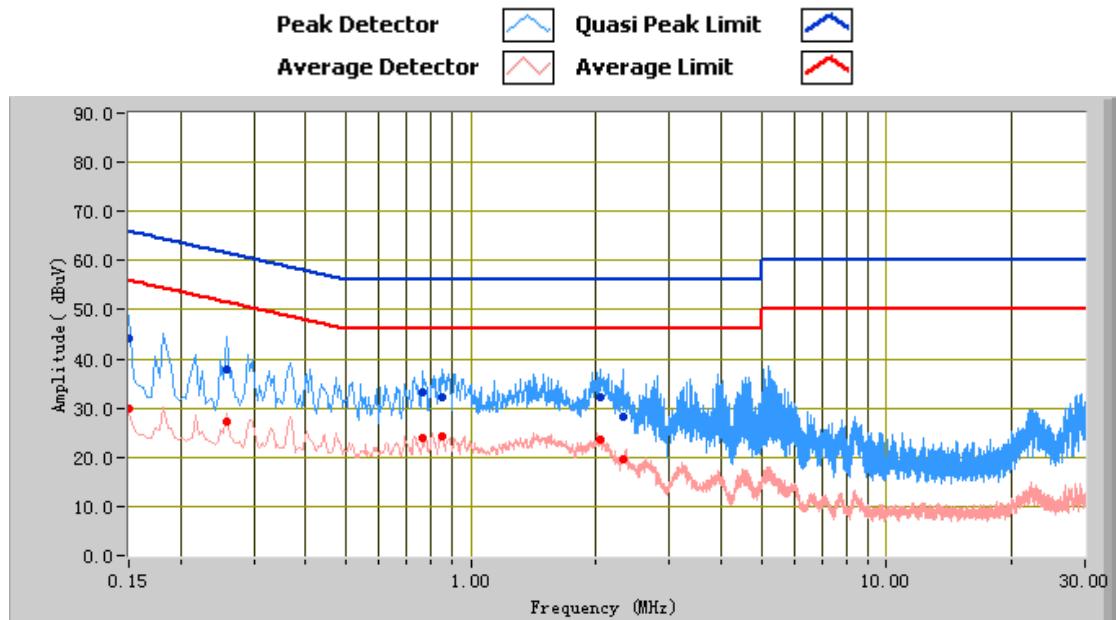
Procedures:

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is ± 3.5 dB.
4. Environmental Conditions Temperature 20°C
 Relative Humidity 50%
 Atmospheric Pressure 1019mbar
5. Test date: January 02, 2014
Tested By : Deon Dai

**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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Test Mode:**Transmitting Mode(Worse Case)****Test Data****Phase Line Plot at 110Vac, 60Hz**

Frequency (MHz)	Quasi Peak (dB μ V)	Limit (dB μ V)	Margin (dB)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Factors (dB)
0.26	37.90	61.50	-23.60	27.40	51.50	-24.10	11.44
0.15	44.31	66.00	-21.69	29.81	56.00	-26.19	12.22
2.04	32.16	56.00	-23.84	23.45	46.00	-22.55	10.88
0.85	32.14	56.00	-23.86	24.20	46.00	-21.80	10.80
2.32	28.26	56.00	-27.74	19.55	46.00	-26.45	10.88
0.77	33.13	56.00	-22.87	23.77	46.00	-22.23	10.87

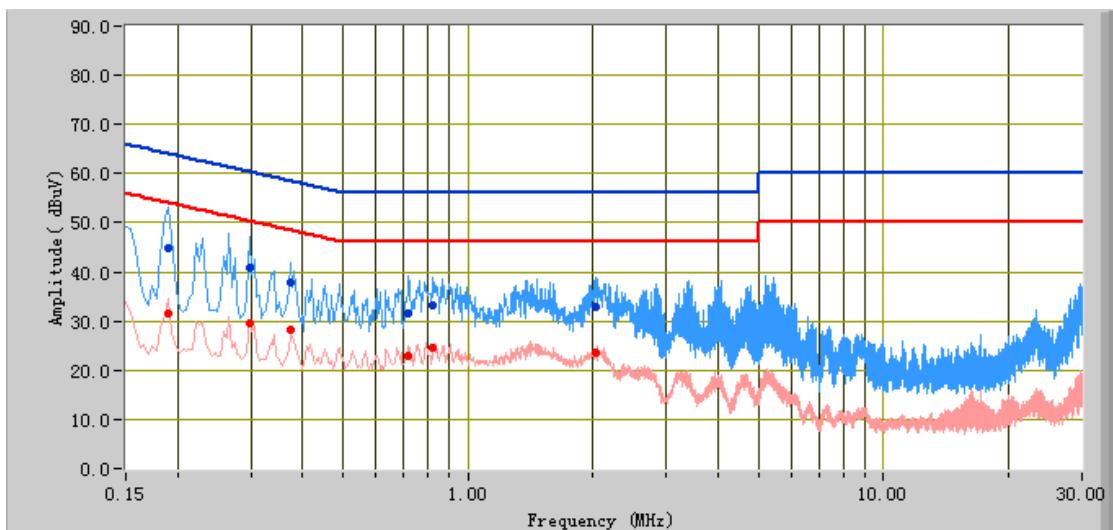
**SIEMIC, INC.**

Title: RF Test Report for 7inch Tablet PC
Main Model: MT-708 i
Serial Model: NTB-708 i, MT-788 i, NTB-788 i
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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Test Mode: Transmitting Mode(Worse Case)

Peak Detector Quasi Peak Limit
Average Detector Average Limit

**Test Data****Phase Neutral Plot at 110Vac, 60Hz**

Frequency (MHz)	Quasi Peak (dB μ V)	Limit (dB μ V)	Margin (dB)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Factors (dB)
0.19	44.96	64.04	-19.08	31.56	54.04	-22.47	11.65
0.30	40.85	60.30	-19.45	29.42	50.30	-20.88	11.38
0.37	37.75	58.41	-20.66	28.39	48.41	-20.03	11.26
0.72	31.44	56.00	-24.56	22.93	46.00	-23.07	10.90
0.82	33.10	56.00	-22.90	24.69	46.00	-21.31	10.83
2.03	32.87	56.00	-23.13	23.63	46.00	-22.37	10.92

5.8 §15.209, §15.205 & §15.247(d) - Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz & 1GHz above (3m & 10m) is +/-6dB.
4. Environmental Conditions Temperature 20°C
 Relative Humidity 50%
 Atmospheric Pressure 1019mbar
5. Test date : January 02, 2014
Tested By : Deon Dai

Requirement: §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Procedures:

Radiated Spurious Emissions Measurement

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Established procedures for performing radiated measurements shall be used (see C63.10). All detected emissions must comply with the applicable limits.

Measurement Detectors

§15.35(a) specifies that on frequencies less than and below 1000 MHz, the radiated emissions limits assume the use of a CISPR quasi-peak detector function and related measurement bandwidths. §15.35(b) specifies that on frequencies above 1000 MHz, the radiated emissions limits assume the use of an average detector and a minimum resolution bandwidth of 1 MHz. In addition, §15.35(b) that when average radiated emissions measurements are specified there is also a limit on the peak emissions level which is 20 dB above the applicable maximum permitted average emission limit. These specifications also apply to conducted emissions measurements.

1. CISPR Quasi-Peak Measurement

The specifications for the measuring instrument using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

2. Peak Power Measurement Procedure

Utilize the peak power measurement procedure specified in Section 8.1.1 with the following modifications:

Set analyzer center frequency to the frequency associated with the restricted band emission under examination.

Set RBW = 1 MHz.

Note that if the peak measured value complies with the average limit, it is not necessary to perform a separate average measurement. If this option is exercised, it should be so noted in the test report.

3. Average Power Measurement Procedures

The average restricted band emission levels must be measured with the EUT transmitting continuously ($\geq 98\%$ duty cycle) at its maximum power control level. Optionally, video triggering/signal gating can be used to ensure that measurements are performed only when the EUT is transmitting at its maximum power control level.

The average power measurement procedures described in Section 8.2 shall be used with the following modifications:

Set analyzer center frequency to the frequency associated with the restricted band emission.

Set span to at least 1 MHz.

Use peak marker function to determine the highest amplitude within the RBW (1 MHz).

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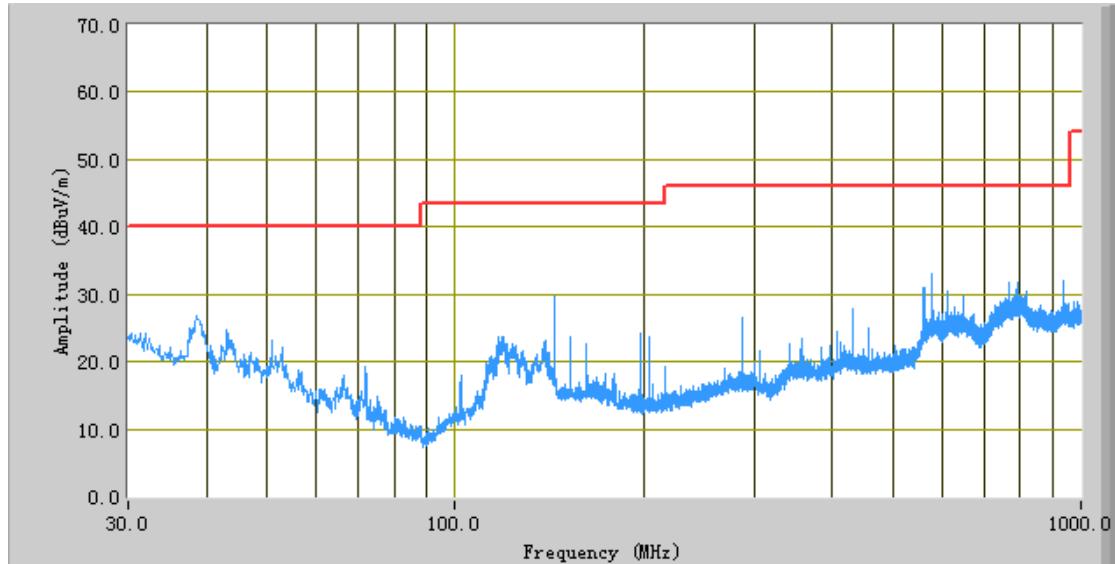
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Test Result: Pass

Test Mode:	Transmitting Mode(Worse Case)
-------------------	--------------------------------------

(Below 1GHz)

Peak Detector 
Quasi Peak Limit 

**Test Data****Vertical Polarity Plot @3m**

Frequency (MHz)	Peak (dB μ V/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dB μ V/m)	Margin (dB)
575.99	33.18	279.20	V	200.00	-23.36	46.00	-12.82
38.49	26.69	70.10	V	100.00	-26.81	40.00	-13.31
143.97	29.55	141.20	V	100.00	-32.17	43.50	-13.95
936.10	31.92	306.60	V	100.00	-19.28	46.00	-14.08
768.05	31.85	269.80	V	100.00	-16.89	46.00	-14.15
792.06	31.74	265.40	V	100.00	-18.41	46.00	-14.26

Note: Fast QP measurement performed, more than 20dB below limit so QP test data was not presented.

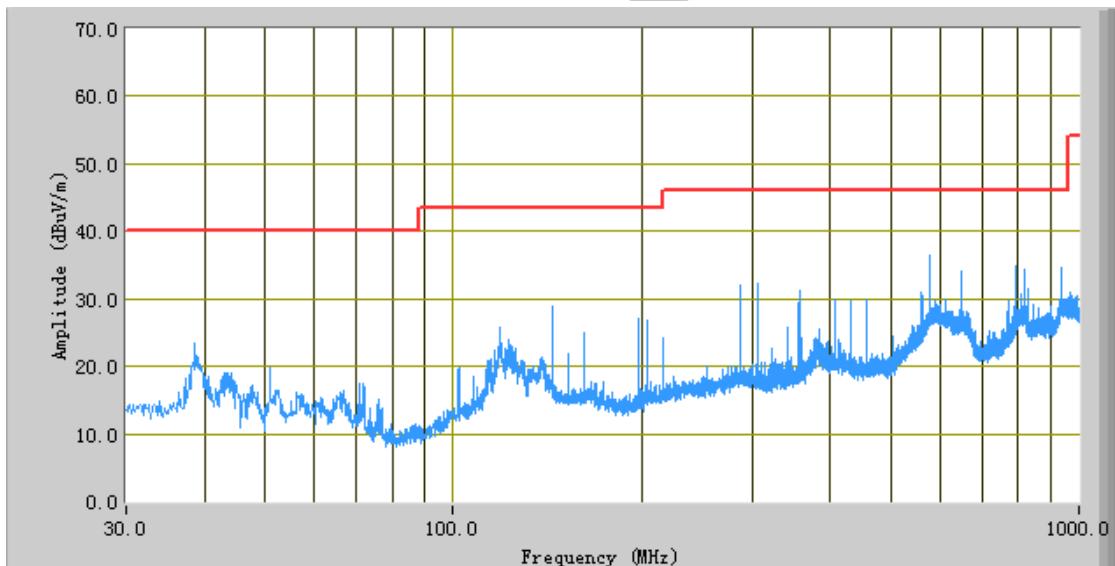
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Test Mode:**Transmitting Mode(Worse Case)****(Below 1GHz)**

Peak Detector
Quasi Peak Limit

**Test Data****Horizontal Polarity Plot @3m**

Frequency (MHz)	Peak (dB μ V/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dB μ V/m)	Margin (dB)
575.99	36.47	315.00	H	200.00	-21.56	46.00	-9.53
792.06	34.78	170.50	H	100.00	-20.21	46.00	-11.22
936.10	34.71	276.20	H	100.00	-17.67	46.00	-11.29
816.06	34.30	294.20	H	300.00	-18.68	46.00	-11.70
648.01	34.12	161.30	H	100.00	-21.32	46.00	-11.88
305.96	32.24	188.90	H	100.00	-30.11	46.00	-13.76

Note: Fast QP measurement performed, more than 20dB below limit so QP test data was not presented.

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Above 1 GHz:**Test Mode: Transmitting****Note: Other modes were verified, only the result of worst case basic rate mode was presented.****Mode: 802.11b**

Low Channel (2412 MHz)

Frequency (MHz)	Substituted level (dB μ V/m)	Detector (PK/AV)	Direction (degree)	Height (cm)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4824	32.25	AV	211	100	V	33.83	3.3	24	45.38	54	-8.62
4824	33.25	AV	158	190	H	33.83	3.3	24	46.38	54	-7.62
4824	46.95	PK	211	100	V	33.83	3.3	24	60.08	74	-13.92
4824	48.25	PK	158	190	H	33.83	3.3	24	61.38	74	-12.62
5485.5	31.25	AV	311	110	V	34.19	3.8	24	45.24	54	-8.76
5485.5	30.92	AV	360	180	H	34.19	3.8	24	44.91	54	-9.09
5485.5	40.25	PK	311	110	V	34.19	3.8	24	54.24	74	-19.76
5485.5	39.88	PK	360	180	H	34.19	3.8	24	53.87	74	-20.13

Middle Channel (2437 MHz)

Frequency (MHz)	Substituted level (dB μ V/m)	Detector (PK/AV)	Direction (degree)	Height (cm)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4874	33.24	AV	144	101	V	33.83	3.3	24	46.37	54	-7.63
4874	34.95	AV	199	198	H	33.83	3.3	24	48.08	54	-5.92
4874	46.58	PK	144	101	V	33.83	3.3	24	59.71	74	-14.29
4874	48.99	PK	199	198	H	33.83	3.3	24	62.12	74	-11.88
5565.5	30.24	AV	199	100	V	34.29	3.8	24	44.33	54	-9.67
5565.5	29.67	AV	259	190	H	34.29	3.8	24	43.76	54	-10.24
5565.5	39.85	PK	199	100	V	34.29	3.8	24	53.94	74	-20.06
5565.5	38.12	PK	259	190	H	34.29	3.8	24	52.21	74	-21.79

High Channel (2462 MHz)

Frequency (MHz)	Substituted level (dB μ V/m)	Detector (PK/AV)	Direction (degree)	Height (cm)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4924	31.29	AV	322	121	V	33.83	3.3	24	44.42	54	-9.58
4924	33.52	AV	188	200	H	33.83	3.3	24	46.65	54	-7.35
4924	46.25	PK	322	121	V	33.83	3.3	24	59.38	74	-14.62
4924	48.25	PK	188	200	H	33.83	3.3	24	61.38	74	-12.62
5573.5	30.25	AV	99	121	V	34.29	3.8	24	44.34	54	-9.66
5573.5	29.25	AV	211	189	H	34.29	3.8	24	43.34	54	-10.66
5573.5	41.25	PK	99	121	V	34.29	3.8	24	55.34	74	-18.66
5573.5	40.88	PK	211	189	H	34.29	3.8	24	54.97	74	-19.03

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Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
AC Line Conducted Emissions				
R&S EMI Test Receiver	ESPI3	101216	09/27/2013	09/26/2014
V-LISN	ESH3-Z5	838979/005	09/27/2013	09/26/2014
Com-Power Transient Limiter	LIT-153	531021	09/27/2013	09/26/2014
Universal Radio Communication Tester	CMU200	104031	09/27/2013	09/26/2014
A- INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120 092	10/09/2013	10/08/2014
SIEMIC Labview Conducted Emissions software	V1.0	N/A	N/A	N/A
RF conducted test				
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	CFG038	10/25/2013	10/24/2014
Power Splitter	1#	1#	02/02/2013	02/01/2014
Temperature/Humidity Chamber	1007H	N/A	01/07/2013	01/06/2014
DC Power Supply	E3640A	MY4000401 3	03/22/2013	03/21/2014
Radiated Emissions				
Hp Spectrum Analyzer	8563E	3821A09023	09/27/2013	09/26/2014
R&S EMI Receiver	ESPI3	101216	09/27/2013	09/26/2014
Antenna (30MHz~6GHz)	JB6	A121411	03/27/2013	03/26/2014
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	10/09/2013	10/08/2014
A- INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120 092	10/09/2013	10/08/2014
Horn Antenna (18~40GHz)	AH-840	101013	04/22/2013	04/22/2014
Microwave Pre-Amp (18~40GHz)	PA-840	181250	05/30/2013	05/29/2014
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2013	10/26/2014
MITEQ Pre-Amplifier (0.1 ~ 18GHz)	AMF-7D-00101800-30-10P	1451709	10/27/2013	10/26/2014
Universal Radio Communication Tester	CMU200	104031	09/27/2013	09/26/2014



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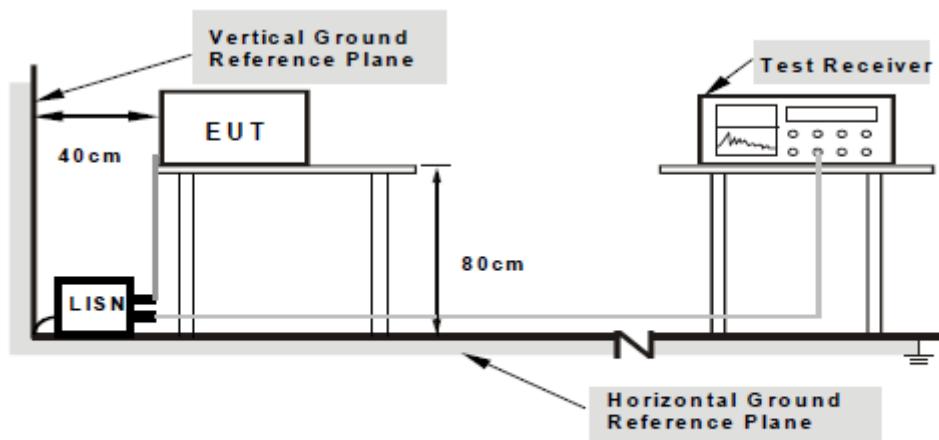
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Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in [Annex B](#).
2. The power supply for the EUT was fed through a $50\Omega/50\mu\text{H}$ EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1.

Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Description of Conducted Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the common scan range from 150 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.



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Sample Calculation Example

At 20 MHz

limit = 250 μ V = 47.96 dB μ V

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dB μ V
(Calibrated for system losses)

Therefore, Q-P margin = $47.96 - 40.00 = 7.96$ i.e. **7.96 dB below limit**

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Annex A. iii RADIATED EMISSIONS TEST DESCRIPTION

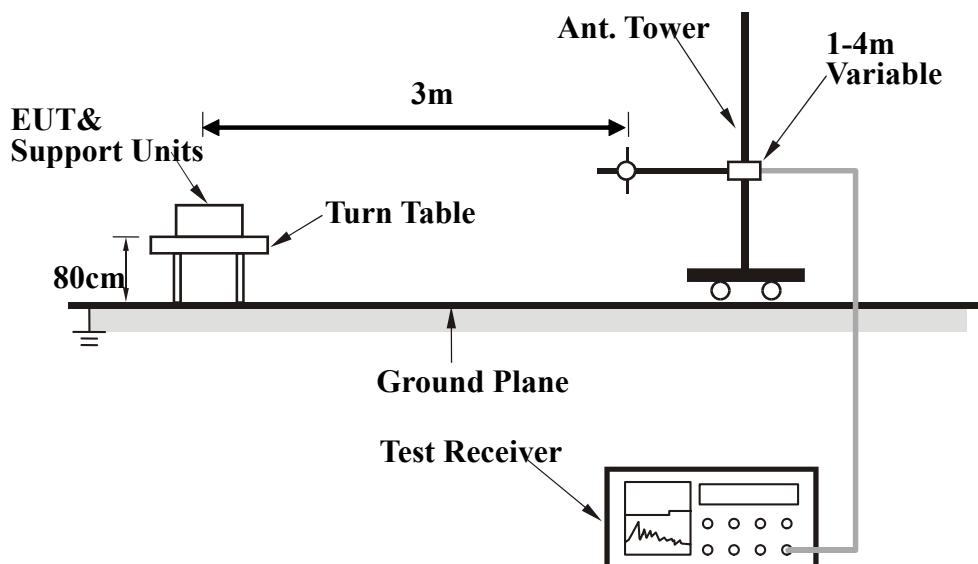
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10th Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer / receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



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Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.

2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.

3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.

4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.

5. Repeat step 4 until all frequencies need to be measured was complete.

6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\text{Average} = \text{Peak Value} + \text{Duty Factor} \text{ or}$$
$$\text{Set RBW} = 1\text{MHz}, \text{VBW} = 10\text{Hz}.$$

Note :

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



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Annex B. EUT AND TEST SETUP PHOTOGRAPHS

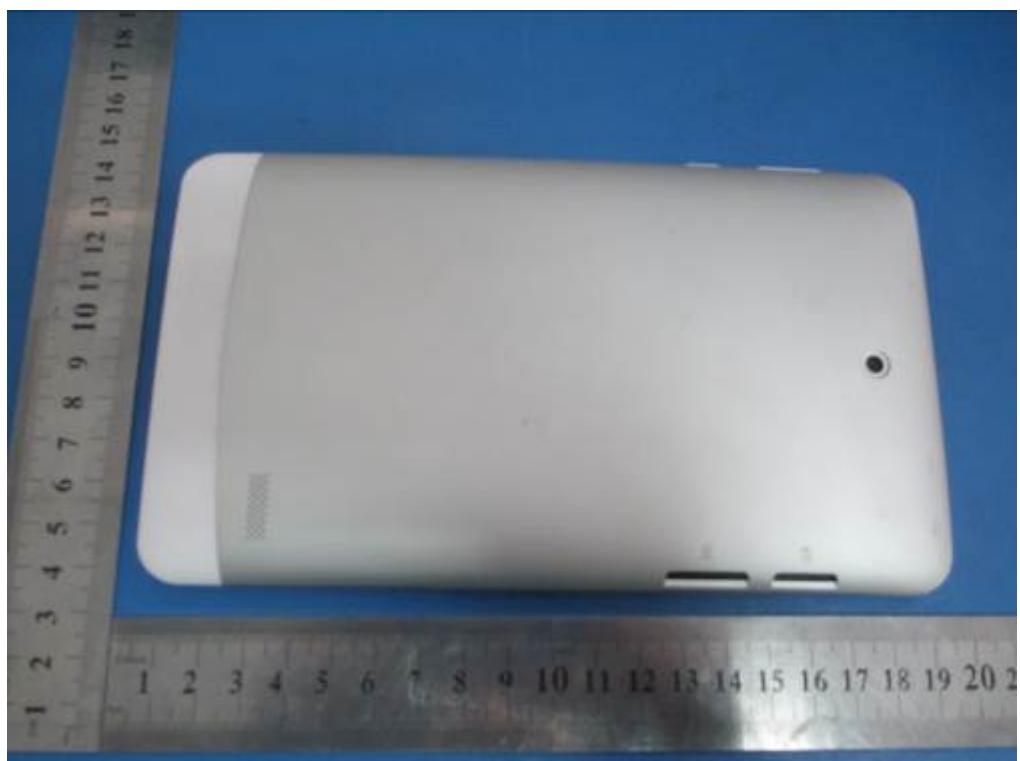
Annex B.i. Photograph 1: EUT External Photo



Whole Package - Top View



EUT - Front View



EUT - Rear View

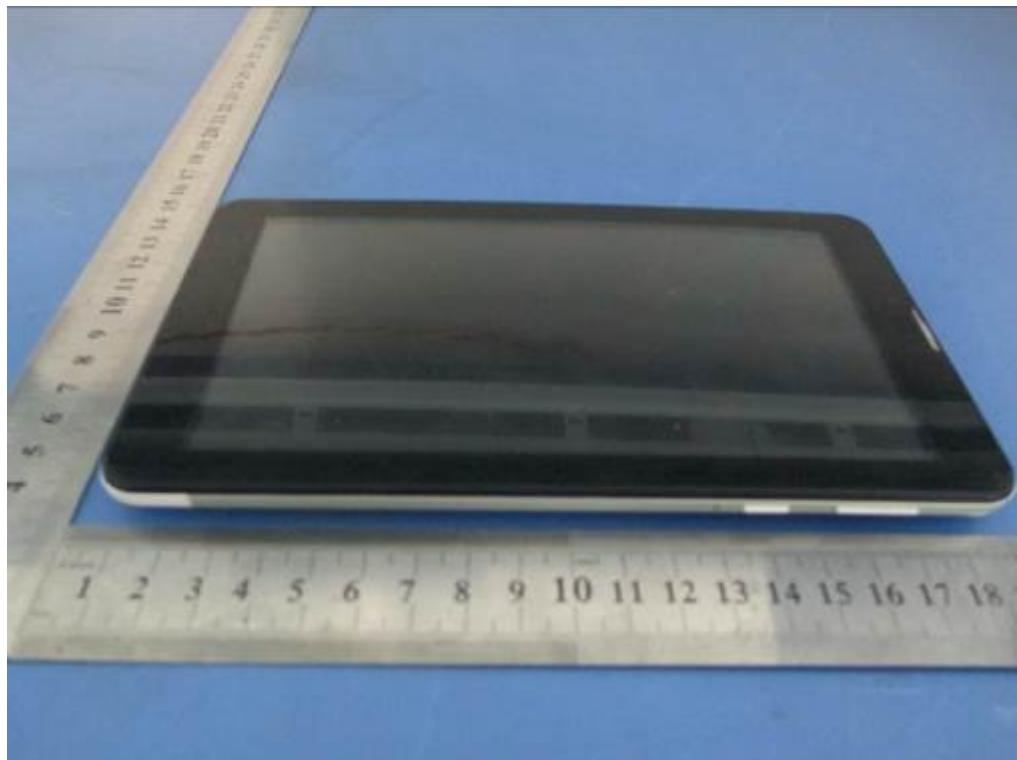


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EUT - Top View



EUT - Bottom View



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EUT - Left View



EUT - Right View



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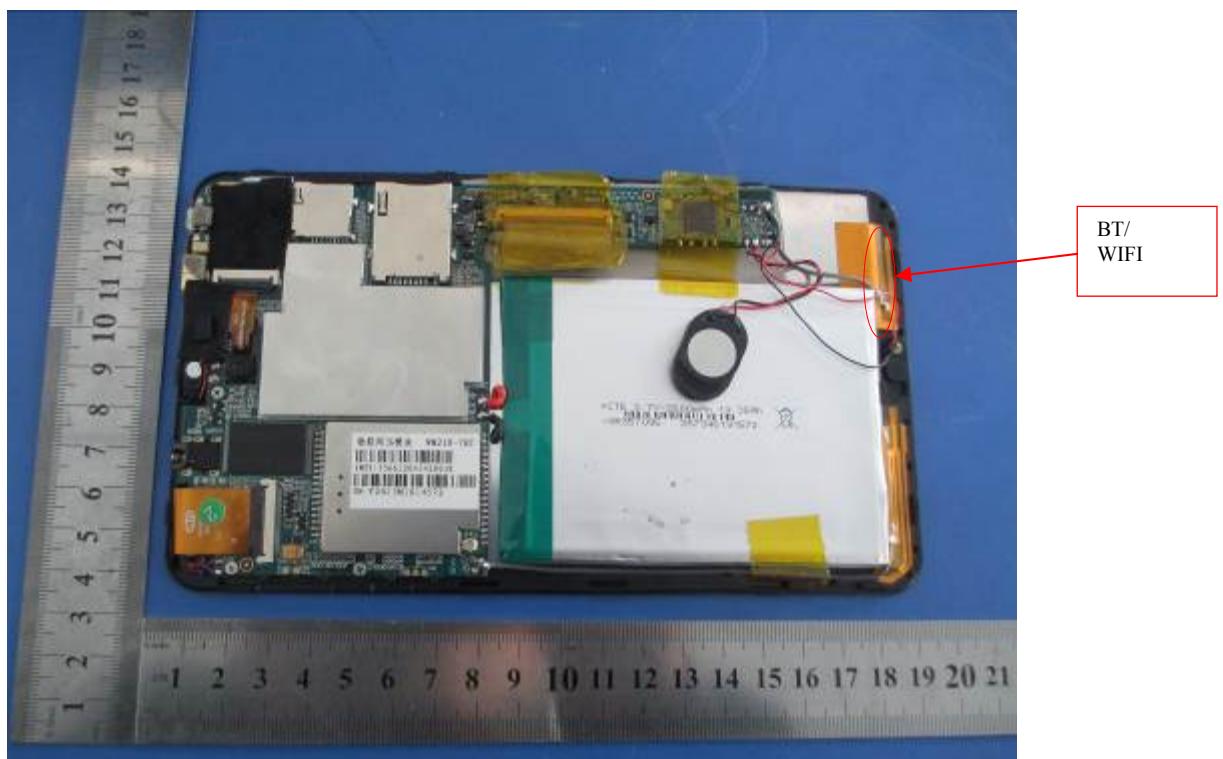
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Annex B.ii. Photograph 2: EUT Internal Photo



Cover Off - Top View 1



Cover Off - Top View 2



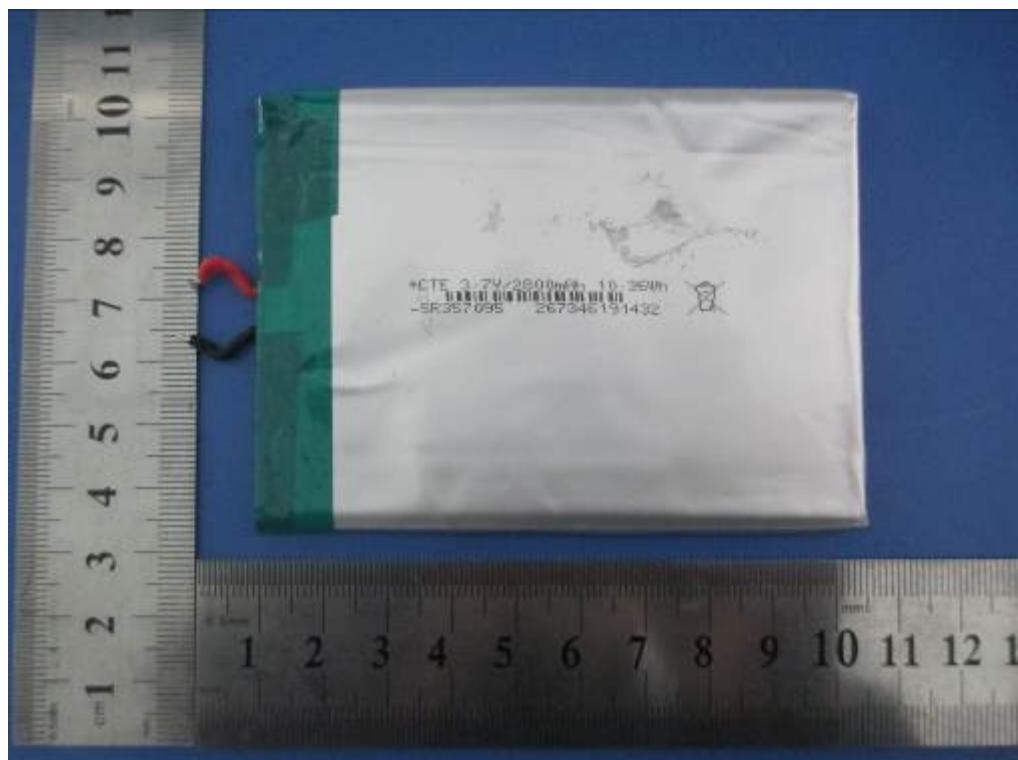
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2G / 3G antenna – Front View



Battery - Top View

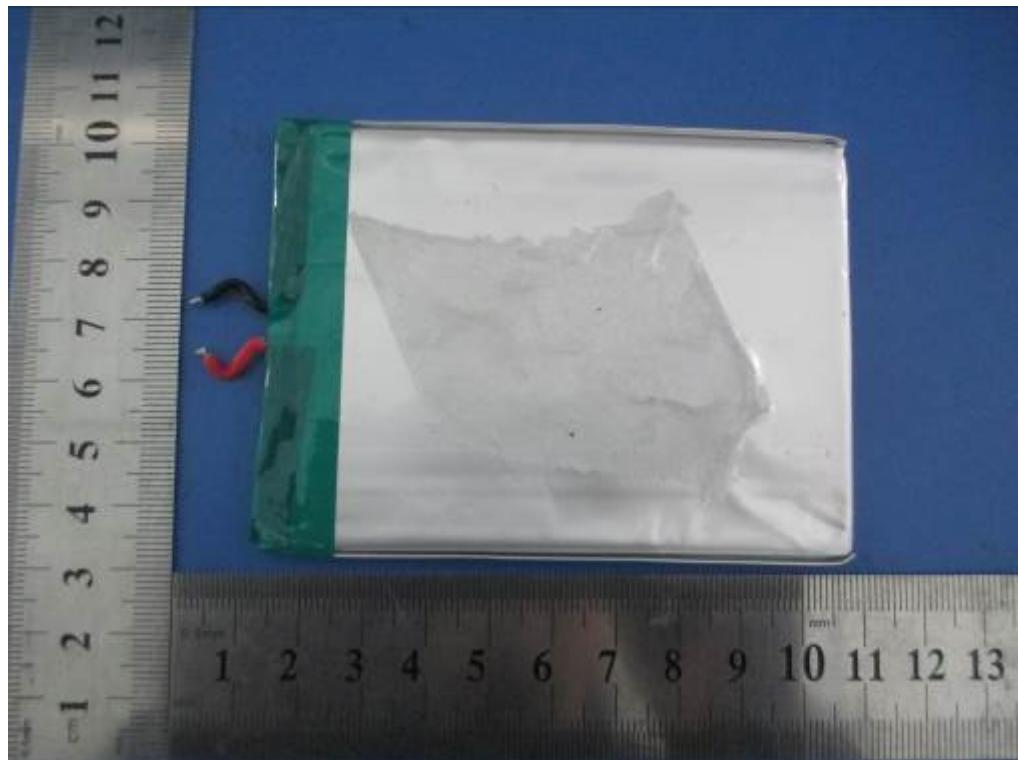


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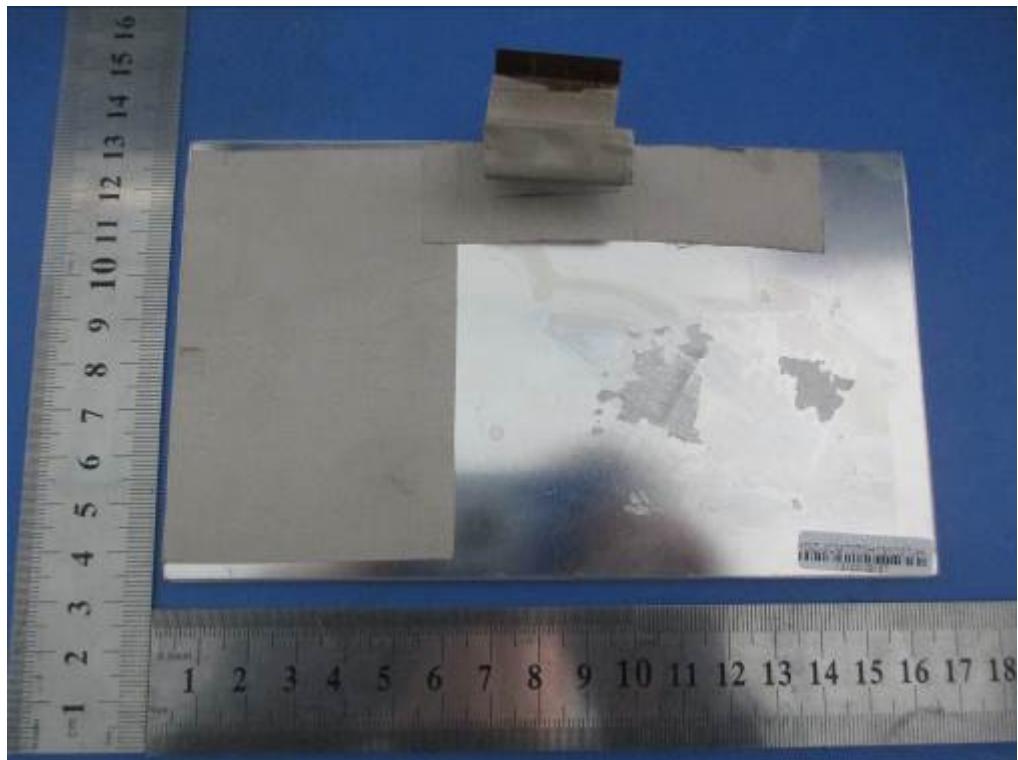
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Battery - Bottom View



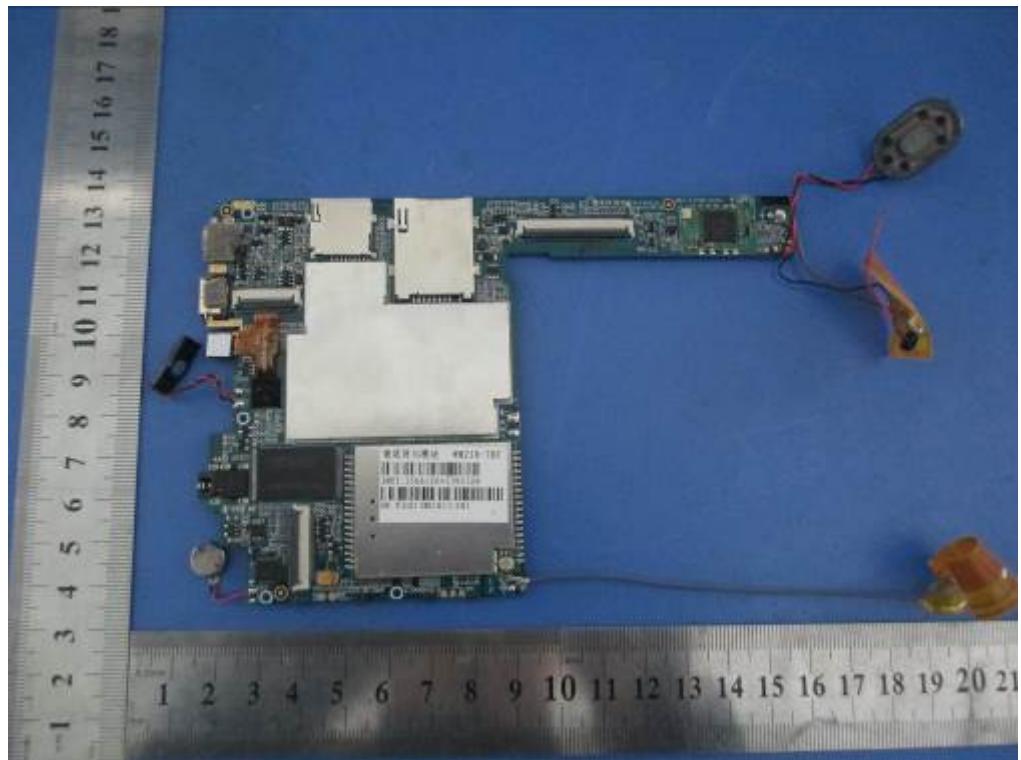
LCD - Top View



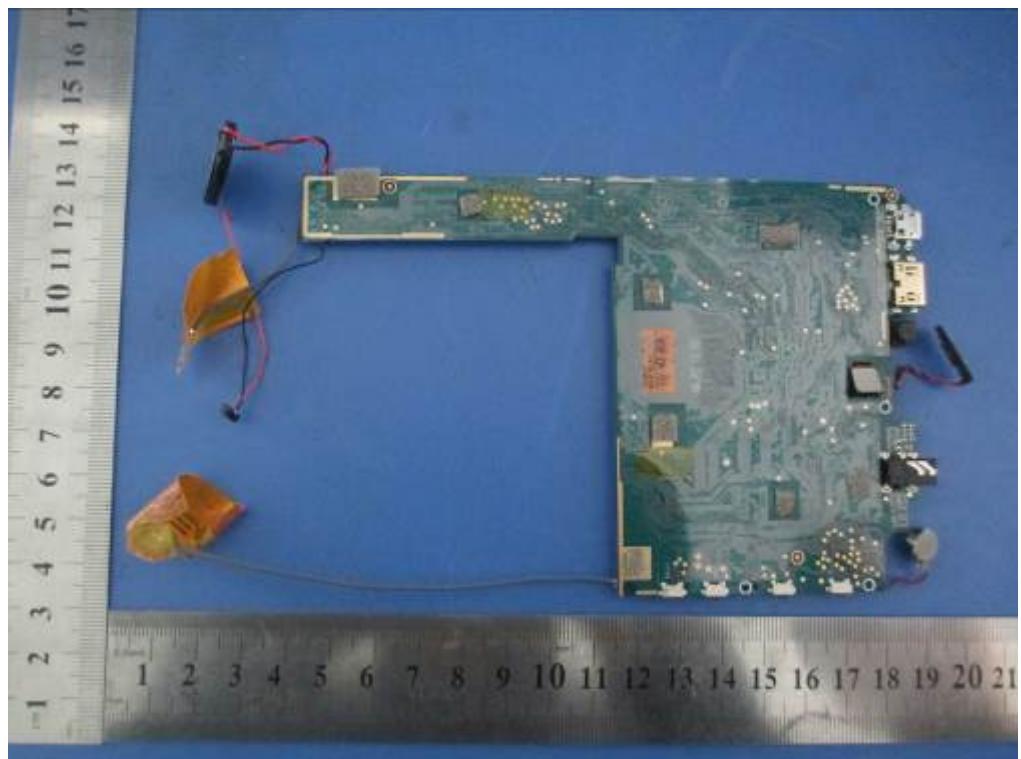
LCD - Bottom View



3G Module - Top View



EUT PCB - Top View



EUT PCB - Bottom View



Uncover Without Shielding - Top View



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Annex B.iii. Photograph 3: Test Setup Photo



Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View

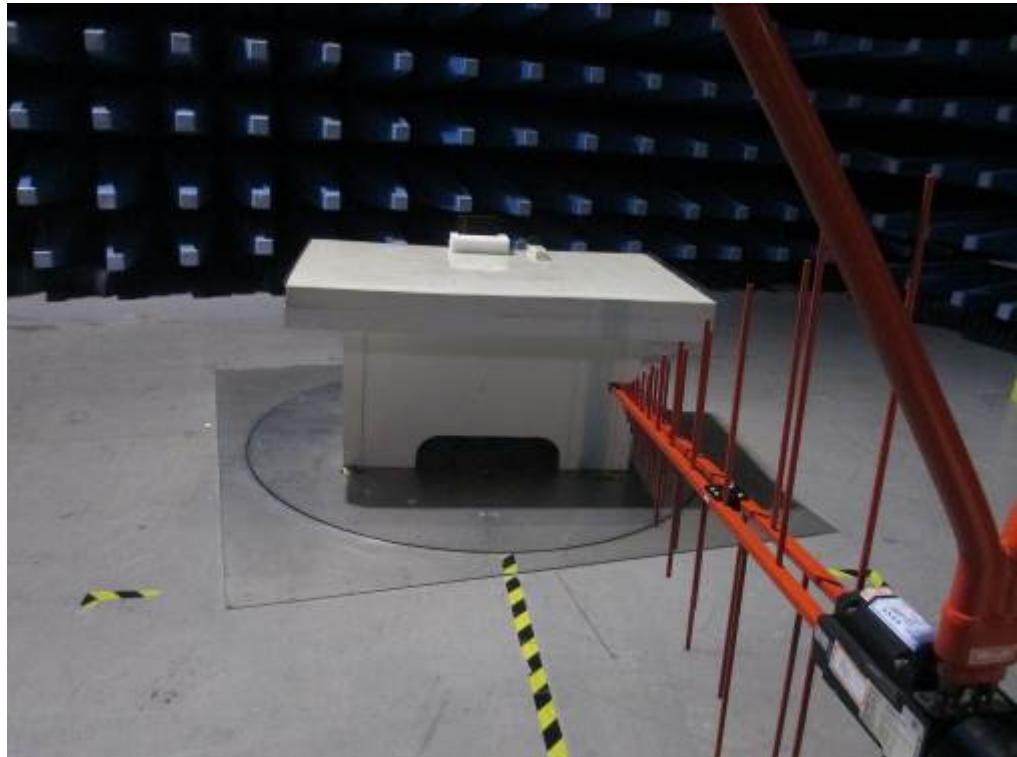


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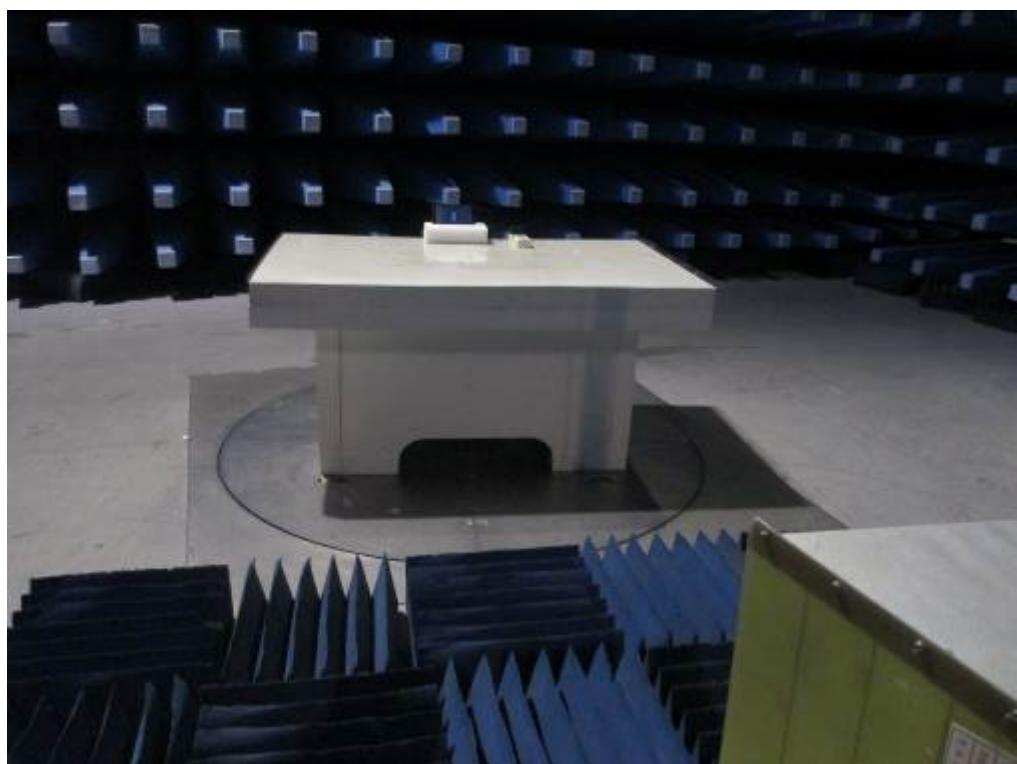
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Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz –Front View

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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description (Including Brand Name)	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A



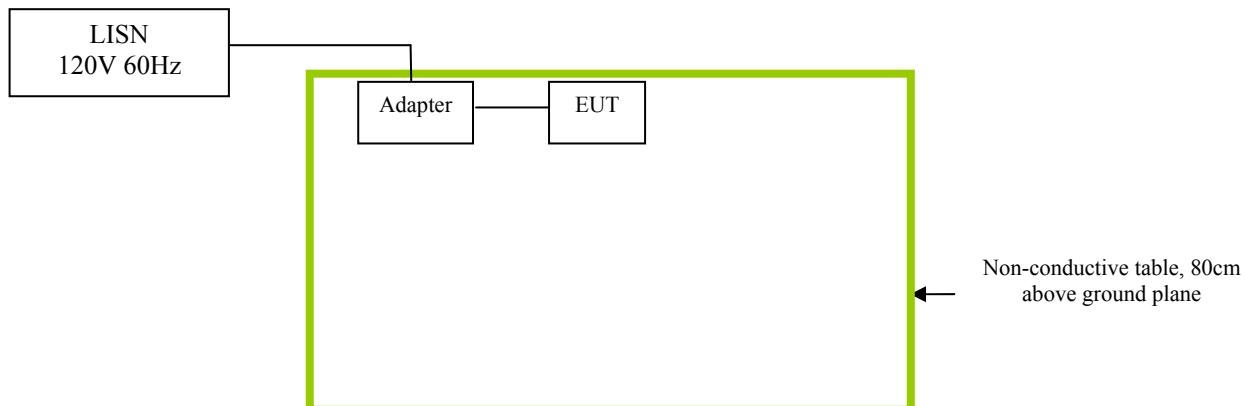
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Block Configuration Diagram for AC Line Conducted Emissions





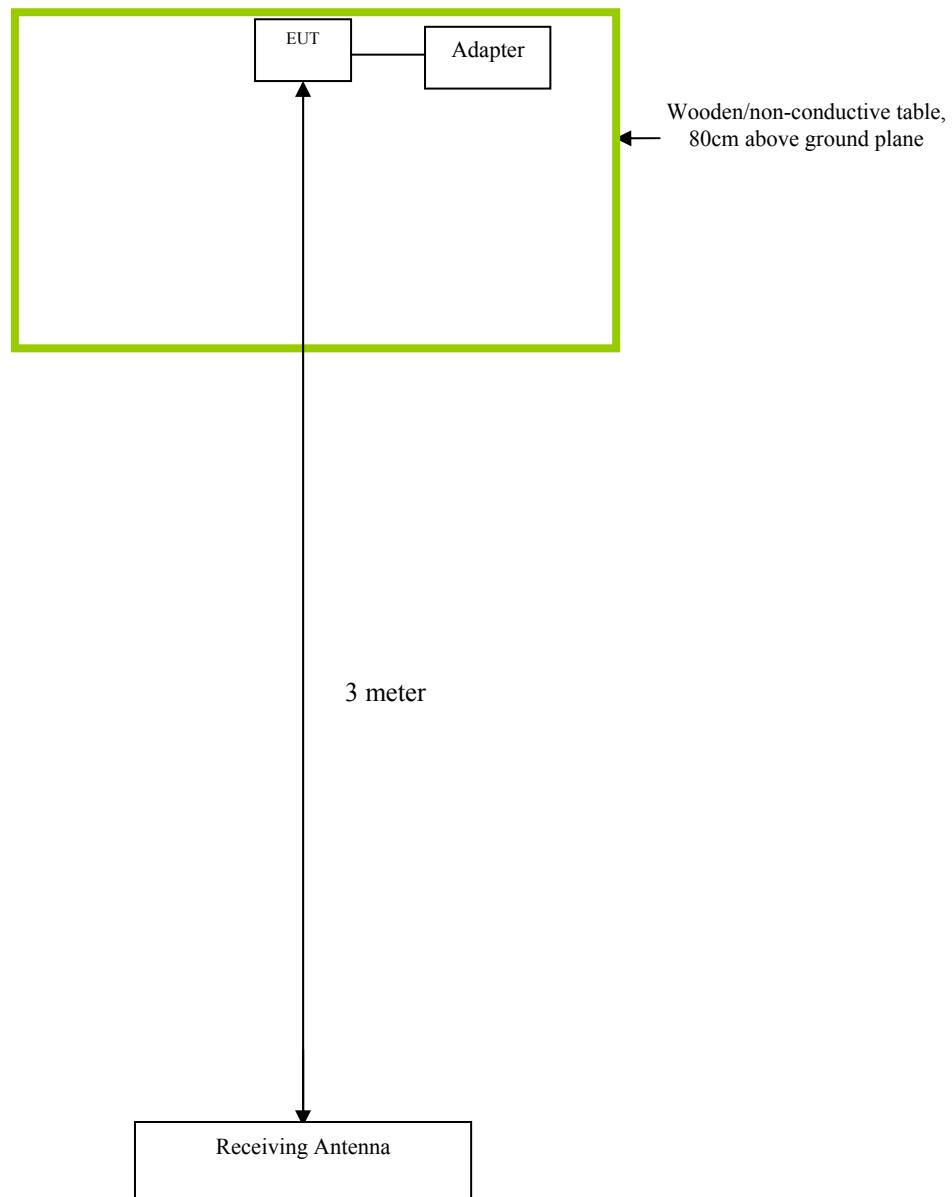
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Block Configuration Diagram for Radiated Emissions



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Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was continuously transmitting to stimulate the worst case.



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Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

MEERA INTERNATIONAL LIMITED

Date: 12/2/2013

Model Difference Description

We, MEERA INTERNATIONAL LIMITED , state that all model numbers for the product 7inch Tablet PC, FCC ID: 2AASXMTNTB708788I , namely MT-708 i, NTB-708 i, MT-788 i, NTB-788 i, are identical in circuitry and RF module, except model name for marketing reasons.

Signatory

Kalwani

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