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FCC TEST REPORT

Under
FCC 15 Subpart C, Paragraph 15.247

Operating in 2400 ~ 2483.5 MHz Band

Prepared For :

ILIFE TECHNOLOGY (HK) LIMITED

3rd Floor,Bld.3,LiJinChen Industrial Park,The East of Gong Ye Road,Longhua,shenzhen,China

FCC ID: OI2K701H
EUT: Tablet PC
Model: K701H

January 25, 2013 Issue Date:
Original Report Report Type:
<i>Eric Guo</i> Test Engineer: Eric Guo
 Review By: Apollo Liu / Manager

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1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1.2 Testing Laboratory

Sintek Lab

Site on File with the Federal Communications Commission – United States

Registration Number: 963441

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: 7353A

1.3 Details of Applicant

Name : ILIFE TECHNOLOGY (HK) LIMITED

Address : 3rd Floor, Bld.3, LiJinChen Industrial Park, The East of Gong Ye Road, Longhua, Shenzhen, China

Contact : Chris Yu

Tel : 86 755 22200901

Fax : N/A

1.4 Application Details

Date of Receipt of Application : December 20, 2012

Date of Receipt of Test Item : December 24, 2012

Date of Test : December 24, 2012~January 22, 2013

1.5 Test Item

Manufacturer : ILIFE TECHNOLOGY (HK) LIMITED

Address : 3rd Floor, Bld.3, LiJinChen Industrial Park, The East of Gong Ye Road, Longhua, Shenzhen, China

Trade Name : N/A

Model No.(Base) : K701H

Model No.(Extension) : D710.K701

Description : Tablet PC

Additional Information

Product Type : WLAN (1TX, 1RX)

Radio Type : Intentional Transceiver

Power Type : DC 5V/2000mA (Adapter model: TYP60-05020000U)

Modulation : see the below tables

Data Modulation : IEEE 802.11b: DQPSK, DBPSK, DSSS, and CCK

IEEE 802.11g: BPSK, QPSK, 16QAM, 64QAM

IEEE 802.11n: HT20/HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)

Date Rate (Mbps) : see the below table

Frequency Range : 2412~2462MHz

Channel Number : For 2.4GHz Band: 11 for 20MHz bandwidth; 7 for 40MHz bandwidth

Antenna : Internal

Antenna & Band Width

Antenna	Single (TX)		Two (TX)	
Band width Mode	20 MHz	40 MHz	20 MHz	40 MHz
802.11a	X	X	X	X
802.11b / 11,5.5,2 and 1 Mbps with auto-rate fall back	√	X	X	X
802.11g / 54,48,36,24,18,12,9&6 Mbps	√	X	X	X
Draft n / up to 150Mbps	√	√	X	X

1.6 Test Standards

FCC 15 Subpart C, Paragraph 15.247

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2. Technical Test

2.1 Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	PASS	Complies
FCC Part 15, Paragraph 15.107, 15.207	Conducted Test	PASS	Complies
FCC Part 15.205	Radiated Emission (Restricted Band Requirements)	PASS	Complies
FCC Part 15.109, 15.209	Radiated Emission (Spurious Emission)	PASS	Complies.
FCC Part 15 Subpart C Paragraph 15.247(a)(2)	Spectrum Bandwidth (6dB Bandwidth Measurement)	PASS	Complies.
FCC Part 15 Subpart C Paragraph 15.247(b)(3)	Maximum Peak Power	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(d)	100kHz Bandwidth of Frequency Band Edges	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(e)	Peak Power Spectral Density	PASS	Complies

* The digital circuit porting of the EUT has been tested and verified to comply with FCC Part 15, Subpart B., Class B Digital Devices and the associated Radio Receiver has also been tested and found to comply with FCC Part 15, Subpart B – Radio Receivers.

2.2 Antenna Requirement

A. Regulation

FCC 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. 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 Part 15C. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

B. Result

The antenna type used in this product is Dipole Antenna and fixed in the EUT and without connector. That no antenna other than furnished by the responsible party shall be used with the device. The EUT as tested meets the criteria of this rule by being antenna being permanently attached and professionally installed. The EUT is compliant with Section 15.203.

3. EUT Modifications

No modification by test lab.

4. Conducted Power Line Test

4.1 Test Equipment

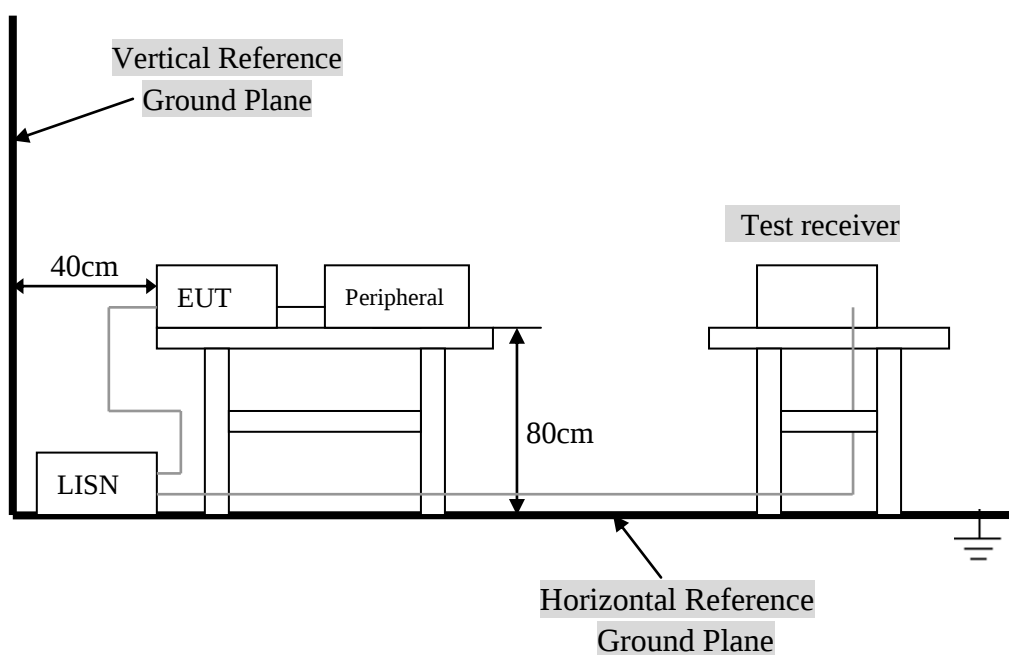
Please refer to Section 10 this report.

4.2 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission., the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4:2003 on conducted measurement. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

4.3 Test Setup



For the actual test configuration, Please refer to the related items – Photos of Testing.

4.4 Configuration of the EUT

The EUT was configured according to ANSI C63.4-2003. EUT was used DC5V. The operation frequency is from 2400MHz~2483.5MHz. Enable the signal transmitted from the EUT to Notebook PC. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

Note:

- 1) Operating Modes: Each of lowest, middle and highest channel frequencies transmits continuously for emissions measurements. The EUT operates in normal 802.11b/g/n for occupancy duration and frequency separation.
- 2) Special Test Software & Hardware: Special firmware and hardware provided by the Applicant are installed to allow the EUT to operate in 802.11b/g/n or at each channel frequency continuously. For example, the transmitter will be operated at each of lowest, middle and highest frequencies individually continuously during testing.
- 3) Transmitter Test Antenna: The EUT is tested with the antenna fitted in a manner typical of normal intended use as an integral / non-integral antenna equipment as describe with the test results.
- 4) Frequency(ies) Tested: 2412MHz, 2437MHz and 2462MHz were pre-tested, The worst case one, was chosen for conducted emission test.
- 5) Above 1GHz, the 2412MHz, 2437MHz and 2462MHz were tested individually.
- 6) Normal Test Modulation: 802.11b/g/n
- 7) Modulating Signal Source: Internal

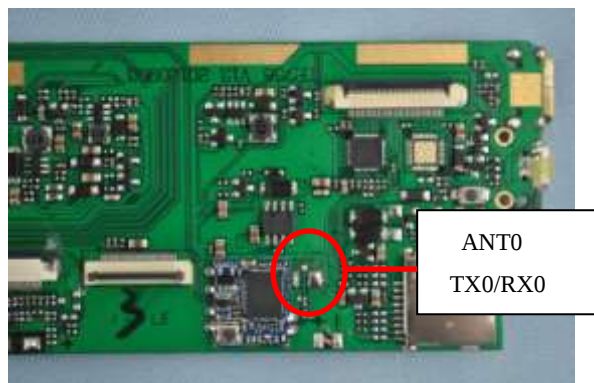
* Associated Antenna Descriptions: The antenna used in this product is embedded antenna.

A. EUT

Device	Manufacturer	Model #	FCC ID
Tablet PC	ILIFE TECHNOLOGY (HK) LIMITED	K701H	OI2K701H

Field Antenna For 2.4GHz Band

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Remark
0	SOUTHSTAR	WIFI Antenna N12-0548-R0A	Dipole	N/A	3.00	TX/RX



Note:

The EUT incorporates a WiFi function with 802.11b, 802.11g, and 802.11n. Physically, the EUT provides one completed transmit and receiver. The device was tested in a 802.11b/g/n type operation.

Carrier Frequencies For 2.4GHz Band

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400~2483.5Mhz	1	2412MHz	7	2442MHz
	2	2417MHz	8	2447MHz
	3	2422MHz	9	2452MHz
	4	2427MHz	10	2457MHz
	5	2432MHz	11	2462MHz
	6	2437MHz		

Test Modes For 2.4GHz Band

Test Items	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	Normal Link	Auto	-	-
Maximum Peak Conducted Output Power	MCS8/20MHz	26 Mbps	1/6/11	0
	MCS8/40MHz	65 Mbps	3/6/9	0
Power Spectral Density 6dB Spectrum Bandwidth	MCS8/20MHz	26 Mbps	1/6/11	0
	MCS8/40MHz	65 Mbps	3/6/9	0
Radiated Emissions 9kHz~1GHz	Normal Link	Auto	-	-
Radiated Emissions 1GHz~10 th Harmonic	MCS8/20MHz	26 Mbps	1/6/11	0
	MCS8/40MHz	65 Mbps	3/6/9	0
Band Edge Emissions	MCS8/20MHz	26 Mbps	1/11	0
	MCS8/40MHz	65 Mbps	3/9	0

Note: During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level, The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

B. Internal Devices

Device	Manufacturer	Model #	FCC ID
N/A			

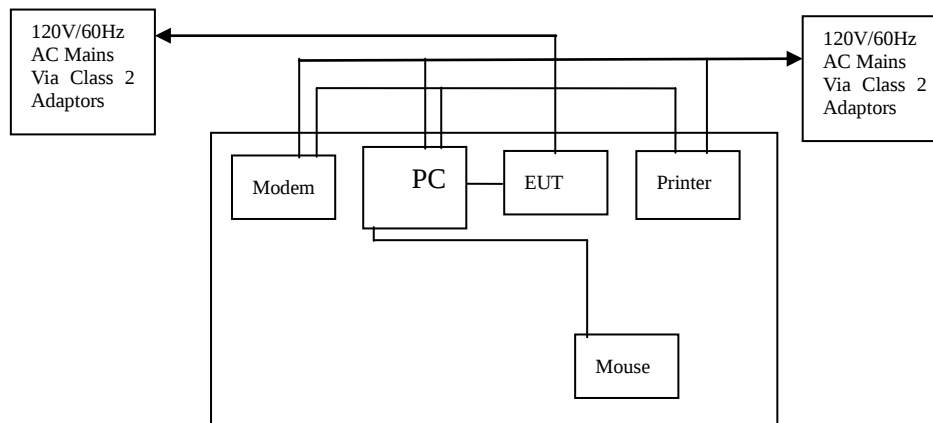
C. Peripherals

Device	Manufacturer	Model # Serial #	FCC ID/ DoC	Cable
Printer	HP	HP930C	DoC	1.5m unshielded power cord 1.2m unshielded data cable.
Modem	GVC	N/A	DoC	1.5m unshielded power cord 1.2m unshielded data cable.
Notebook	DELL	PP10L	DoC	1.5m unshielded power cord
PC	Dell	2400n	DoC	1.5m unshielded power cord

4. 5 EUT Operating Condition

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

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- A. Modulate output capacity of EUT up to specification.



4. 6 Conducted Power Line Emission Limits

FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency Range (MHz)	Class A QP/AV	Class B QP/AV
0.15 – 0.5	79/66	66-56/56-46
0.5 – 5.0	73/60	56/46
5.0 - 30	73/60	60/50

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

4. 7 Conducted Power Line Test Result

Product : Tablet PC
 Test Item : Conducted Emission Data
 Test Voltage : DC 5V/2000mA
 Test Result : **PASS**

Test Mode : Normal Link / Auto
 Temperature : 25 °C
 Humidity : 56%RH
 Adapter Model :

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

- Temperature : 26 °C
- Humidity : 53 % RH

Running Mode

FCC Part 15 Paragraph 15.207							
Frequency (MHz)	Emission (dBuV)		LINE/NEUTRAL	Limit (dBuV)		Margin (dB)	
	QP	AV		QP	AV	QP	AV
0.202	40.18	36.22	Line	63.53	53.53	-23.35	-17.31
0.202	43.76	36.31	Neutral	63.53	53.53	-19.77	-17.22
0.478	45.69	34.78	Line	56.37	46.37	-10.68	-11.59
0.274	42.56	32.18	Neutral	61.00	51.00	-18.44	-18.82
0.498	42.89	35.87	Line	56.03	46.03	-13.14	-10.16
0.474	49.37	37.38	Neutral	56.44	46.44	-7.07	-9.06

Note: NF = No Significant Peak was Found.

Charging Mode

FCC Part 15 Paragraph 15.207							
Frequency (MHz)	Emission (dBuV)		LINE/NEUTRAL	Limit (dBuV)		Margin (dB)	
	QP	AV		QP	AV	QP	AV
0.174	41.36	32.21	Line	64.77	54.77	-23.41	-22.56
0.202	41.41	34.48	Neutral	63.53	53.53	-22.12	-19.05
0.214	39.46	30.68	Line	63.05	53.05	-23.59	-22.37
0.234	37.84	31.56	Neutral	62.31	52.31	-24.47	-20.75
0.246	36.79	28.38	Line	61.89	51.89	-25.10	-23.51
0.474	44.86	41.25	Neutral	56.44	46.44	-11.58	-5.19

Note: NF = No Significant Peak was Found.

Data Transfer Mode

FCC Part 15 Paragraph 15.207							
Frequency (MHz)	Emission (dBuV)		LINE/NEUTRAL	Limit (dBuV)		Margin (dB)	
	QP	AV		QP	AV	QP	AV
0.154	53.54	39.68	Line	65.78	55.78	-12.24	-16.10
0.162	51.48	37.29	Neutral	65.36	55.36	-13.88	-18.07
0.166	50.92	36.31	Line	65.16	55.16	-14.24	-18.85
0.174	51.89	38.02	Neutral	64.77	54.77	-12.88	-16.75
0.178	51.82	38.92	Line	64.58	54.58	-12.76	-15.66
0.182	51.56	39.18	Neutral	64.39	54.39	-12.83	-15.21

Note: NF = No Significant Peak was Found.

Note:

- 1.Uncertainty in conducted emission measured is ± 2 dB.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = Emission Level - Limit Value.

Conducted Emission

EN55022

EUT: Tablet PC

M/N: K701H

Manufacturer: ILIFE TECHNOLOGY (HK) LIMITED

Operating Condition: Transmitter

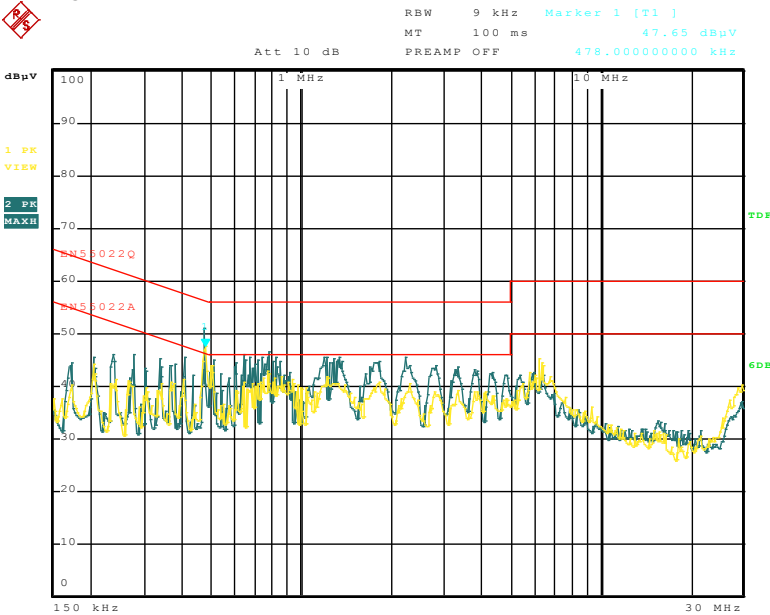
Test Site: Normal

Operator: Eric

Test Specification: LINE&NEUTRAL

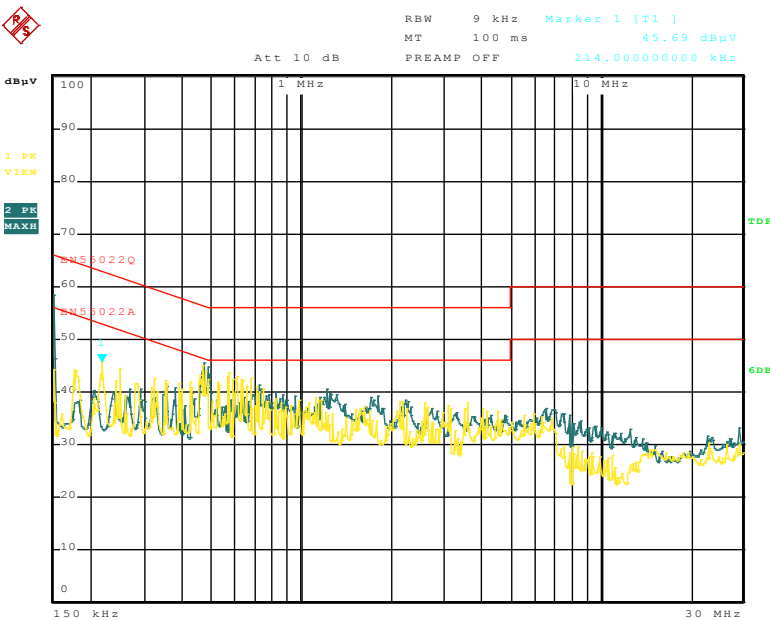
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Running Mode



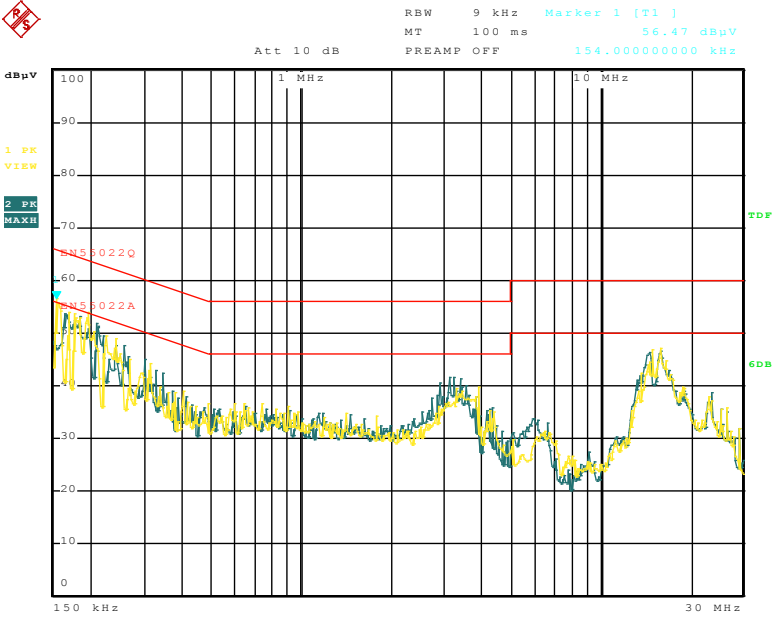
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Charging Mode:



Date: 22.JAN.2013 08:43:43

Data Transfer Mode:



Date: 22.JAN.2013 08:54:14

5. FCC Part 15.247 Requirements for 802.11b/g/n Systems

5.1 Test Equipment

Please refer to Section 10 this report.

5.2 Test Procedure

Refer to FCC 15.247(a)(2), ANSI C63.4: 2003

6 dB Bandwidth:

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

Peak Power:

1. Set the RBW $\geq$ DTS bandwidth.
2. Set VBW $\geq 3 \times$ RBW.
3. Set span $\geq$ RBW.
4. Sweep time = auto couple.
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.

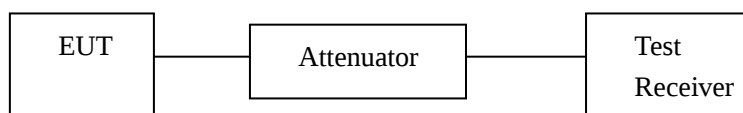
Band Edges Measurement:

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.
- c. The band edges was measured and recorded.

Peak Power Spectral Density:

- a. The testing follows Measurement Procedure 5.3.1 (Peak PSD) of FCC KDB Publication No.558074 D01 V02 DTS Meas. Guidance and TCB Workshop.
- b. The RF output of EUT was connected to the spectrum analyzer by a low loss cable. The path loss was compensated to the results for each measurement.
- c. Record the measurement data derived from the spectrum analyzer.
- d. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW)=100kHz. Video bandwidth(VBW) ≥ 300 KHz. In order to make an accurate measurement, set the span to 5-30% greater than Emission Bandwidth(EBW).
- e. Detector = peak, Sweep time = auto couple, Trace mode = max hold. Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- f. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3\text{kHz}/100\text{kHz}) = -15.2\text{dB}$.

5.3 Test Setup



5.4 Configuration of the EUT

Same as section 4.4 of this report

5.5 EUT Operating Condition

Same as section 4.5 of this report.

5.6 Limit

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 ~ 928 MHz, 2400 ~ 2483.5 MHz, and 5725 ~ 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.

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.

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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. 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 Section 15.205(c)).

According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

5. 7 Test Result

A. 6 dB Bandwidth

Product : Tablet PC

Test Item : 6 dB BW

Test Voltage : DC 5V (From Host)

Test Result : PASS

Test Mode : IEEE 802.11b/g/Draft n

Temperature : 25 °C

Humidity : 56%RH

IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (MHz)	FCC Limit (kHz)	Result
Low	2412	11.20	>500 kHz	PASS
Mid	2437	11.20		PASS
High	2462	11.20		PASS

IEEE 802.11g

Channel	Frequency (MHz)	Bandwidth (MHz)	FCC Limit (kHz)	Result
Low	2412	16.36	>500 kHz	PASS
Mid	2437	16.44		PASS
High	2462	16.44		PASS

Draft n MCS8 20MHz Ant.0

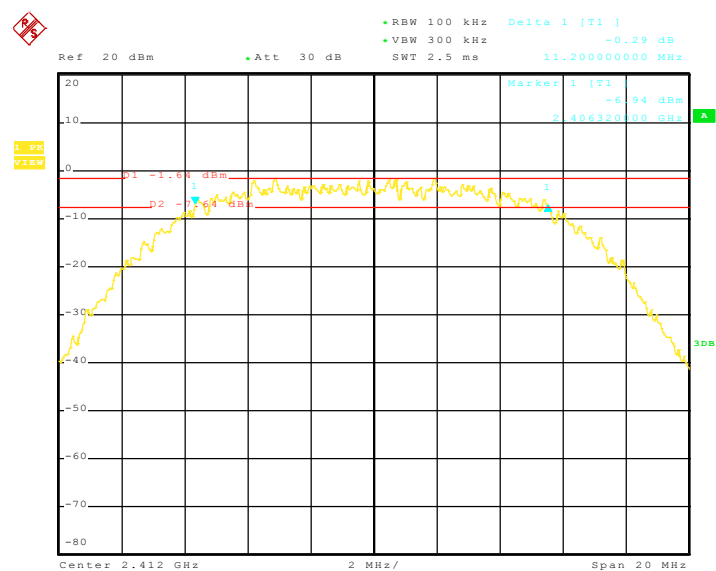
Channel	Frequency (MHz)	Bandwidth (MHz)	FCC Limit (kHz)	Result
Low	2412	16.80	>500 kHz	PASS
Mid	2437	17.04		PASS
High	2462	16.72		PASS

Draft n MCS8 40MHz Ant.0

Channel	Frequency (MHz)	Bandwidth (MHz)	FCC Limit (kHz)	Result
Low	2422	34.72	>500 kHz	PASS
Mid	2437	34.80		PASS
High	2452	34.80		PASS

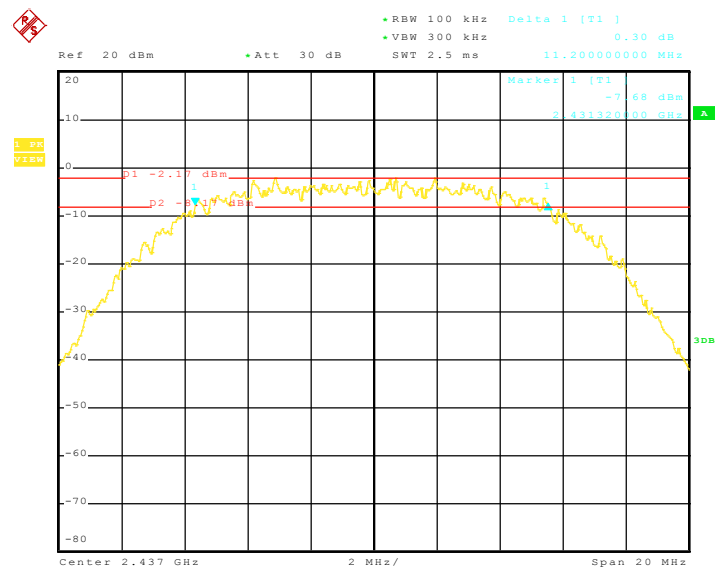
IEEE 802.11b

6dB Bandwidth (CH Low)



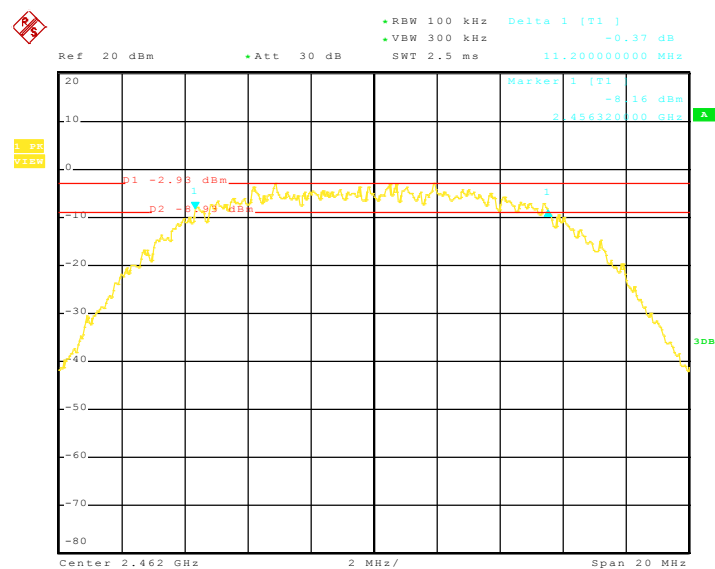
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6dB Bandwidth (CH Mid)



Date: 1.JAN.14502 01:17:49

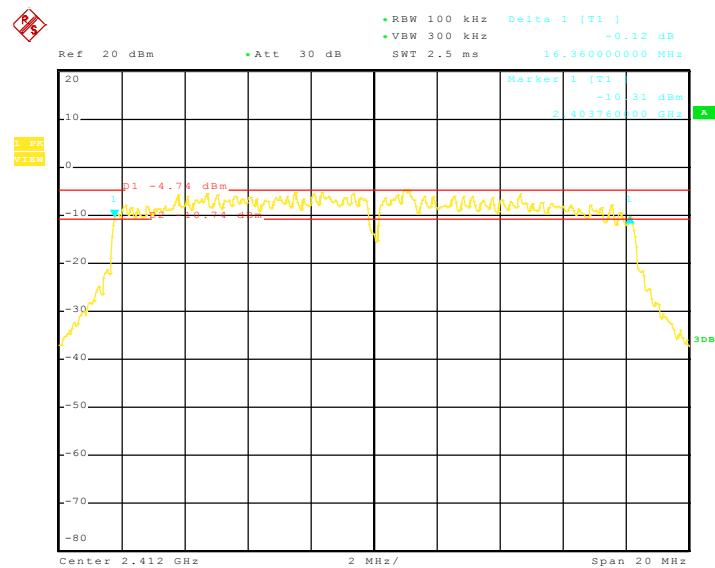
6dB Bandwidth (CH High)



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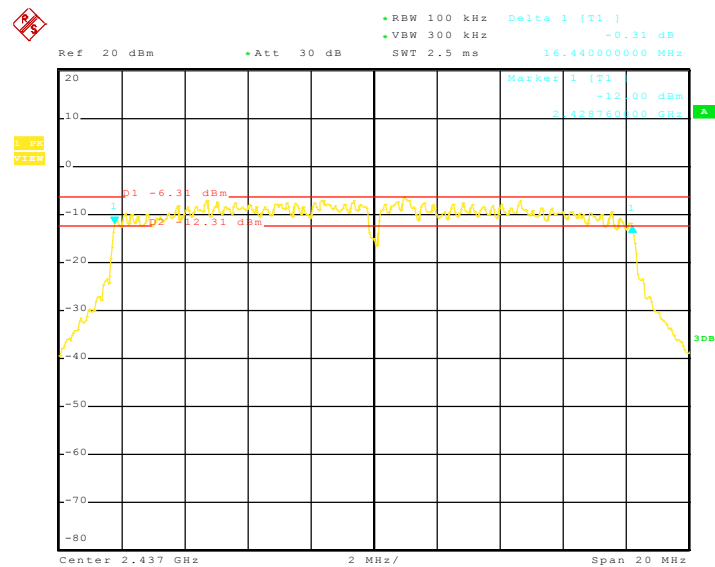
IEEE 802.11g

6dB Bandwidth (CH Low)



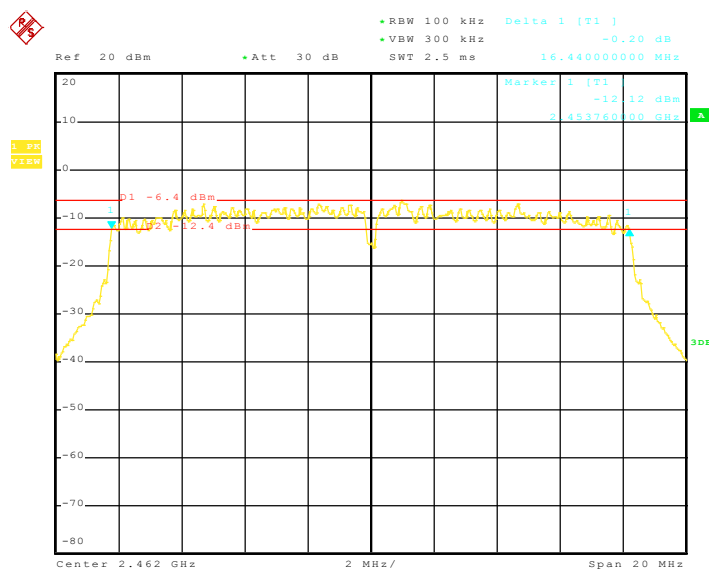
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6dB Bandwidth (CH Mid)



Date: 1.JAN.14502 01:09:47

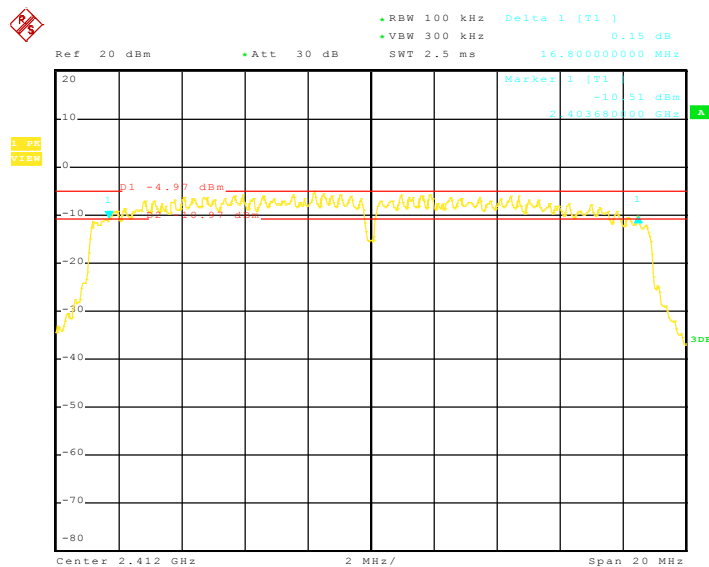
6dB Bandwidth (CH High)



Date: 1.JAN.14502 01:07:10

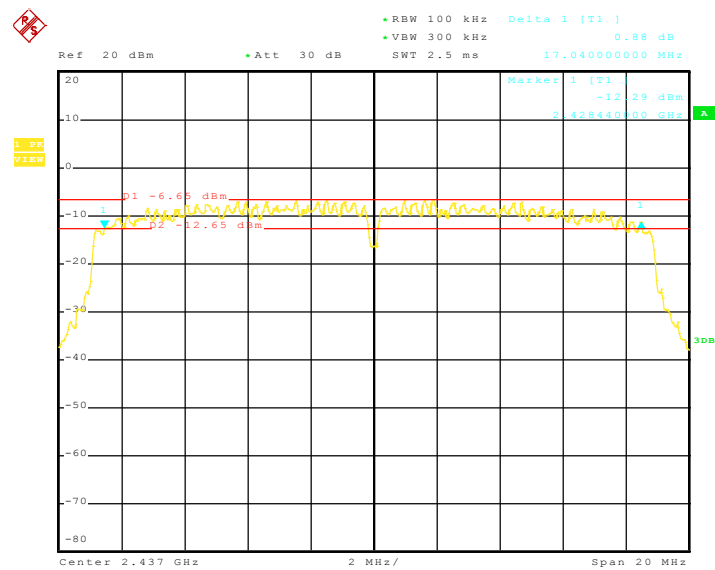
Draft n MCS8 20MHz Ant.0

6dB Bandwidth (CH Low)



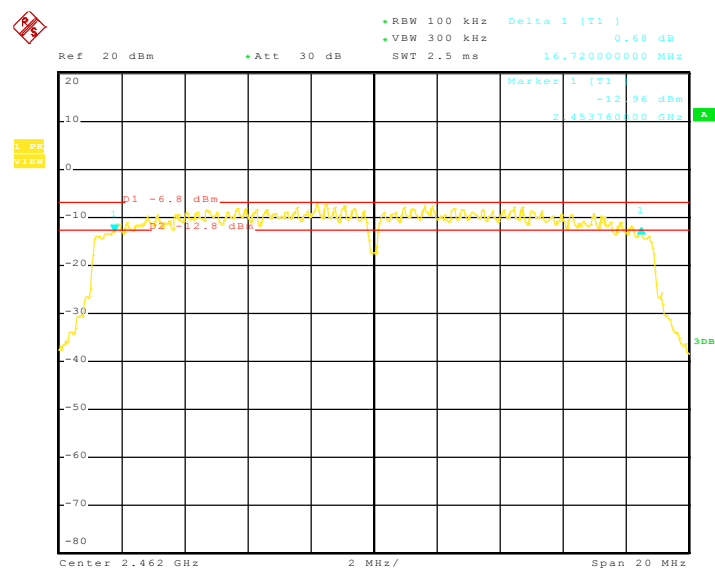
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6dB Bandwidth (CH Mid)



Date: 1.JAN.14502 00:58:47

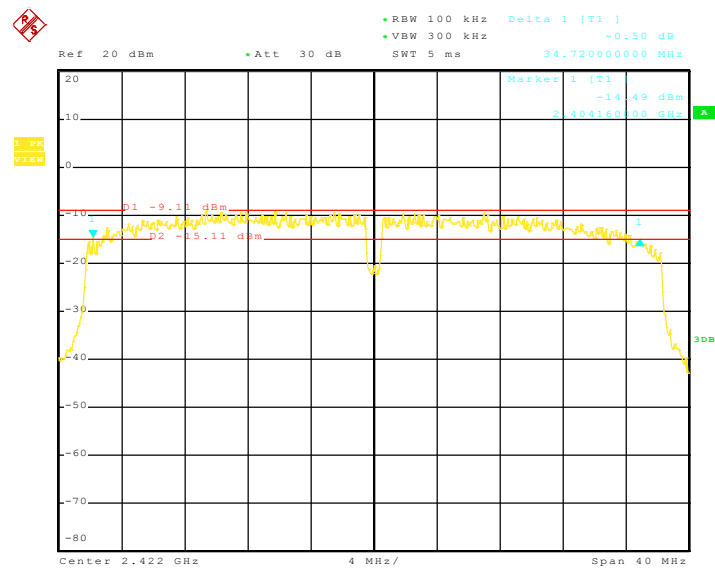
6dB Bandwidth (CH High)



Date: 1.JAN.14502 00:56:23

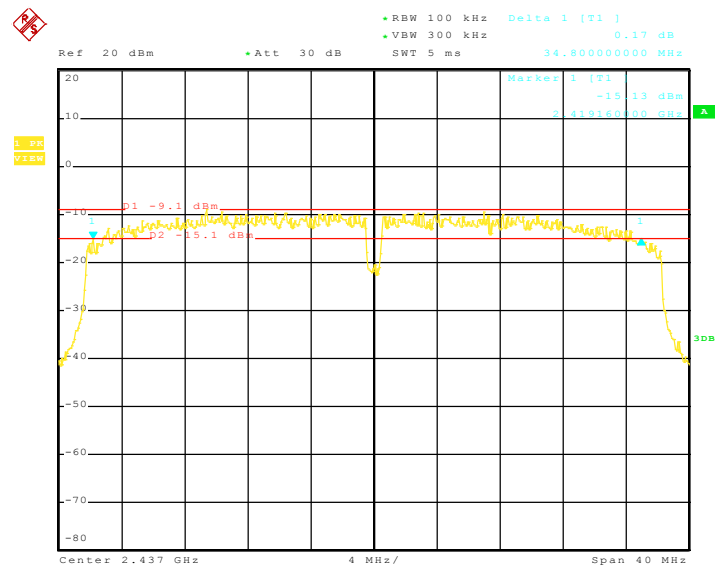
Draft n MCS8 40MHz Ant.0

6dB Bandwidth (CH Low)

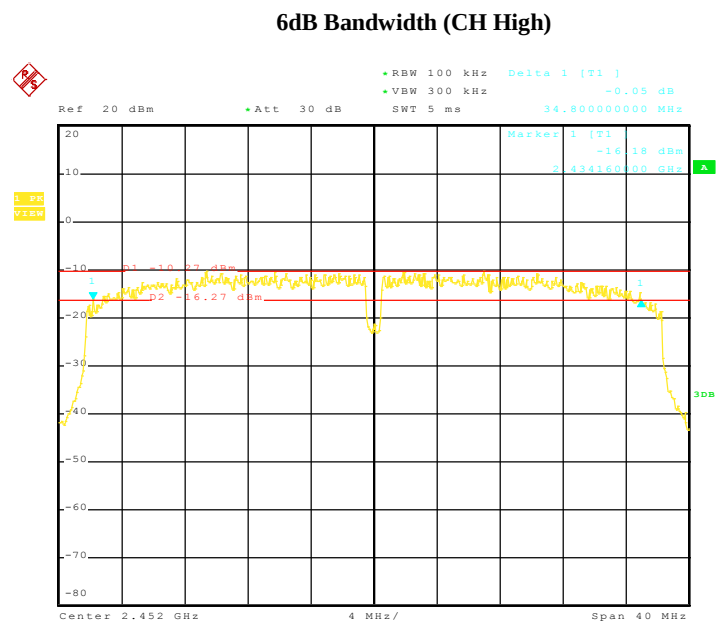


Date: 1.JAN.14502 00:53:35

6dB Bandwidth (CH Mid)



Date: 1.JAN.14502 00:51:46



Date: 1.JAN.14502 00:49:19

B. Peak Power

Product : Tablet PC
 Test Item : Peak Power
 Test Voltage : DC 5V (From Host)
 Test Result : **PASS**

Test Mode : IEEE 802.11b/g/Draft n
 Temperature : 25 °C
 Humidity : 56%RH

IEEE 802.11b

Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	2412	6.52	1.00/30.00	PASS
Mid	2437	5.37		PASS
High	2462	5.24		PASS

IEEE 802.11g

Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	2412	6.04	1.00/30.00	PASS
Mid	2437	4.14		PASS
High	2462	3.86		PASS

Draft n MCS8 20MHz Ant.0

Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	2412	5.43	1.00/30.00	PASS
Mid	2437	3.81		PASS
High	2462	3.67		PASS

Draft n MCS8 40MHz Ant.0

Channel	Frequency (MHz)	Output Power (dBm)	FCC Limit (W/dBm)	Result
Low	2422	2.66	1.00/30.00	PASS
Mid	2437	1.41		PASS
High	2452	1.37		PASS

C. Band Edges Measurement

Product	: Adsl Modem	Test Mode	: IEEE 802.11b/g/n
Test Item	: Band Edges Measurement	Temperature	: 25 °C
Test Voltage	: DC 5V (From Host)	Humidity	: 56%RH
Test Result	: PASS		

IEEE 802.11b-low

Freq. (MHz)	Emission (dBuV/m)		HORIZ / VERT	Limits (dBuV/m)		Margin (dB)	
	Peak	Average		Peak	Average		
2350.040	57.21	47.72	HORZ	74	54	-16.79	-6.28
2384.280	56.27	47.36	VERT	74	54	-17.73	-6.64
2390.460	59.27	48.44	HORZ	74	54	-14.73	-5.56
2390.640	57.90	48.19	VERT	74	54	-16.10	-5.81

IEEE 802.11b-High

Freq. (MHz)	Emission (dBuV/m)		HORIZ / VERT	Limits (dBuV/m)		Margin (dB)	
	Peak	Average		Peak	Average		
2483.540	57.20	47.69	HORZ	74	54	-16.80	-6.31
2484.460	56.41	47.42	VERT	74	54	-17.59	-6.58
2485.520	57.74	47.22	HORZ	74	54	-16.26	-6.78
2486.640	57.28	47.49	VERT	74	54	-16.72	-6.51

IEEE 802.11g-Low

Freq. (MHz)	Emission (dBuV/m)		HORIZ / VERT	Limits (dBuV/m)		Margin (dB)	
	Peak	Average		Peak	Average		
2352.140	57.45	47.41	HORZ	74	54	-16.55	-6.59
2385.260	58.21	47.08	VERT	74	54	-15.79	-6.92
2390.780	58.52	48.45	HORZ	74	54	-15.48	-5.55
2390.840	58.52	48.45	VERT	74	54	-15.48	-5.55

IEEE 802.11g-High

Freq. (MHz)	Emission (dBuV/m)		HORIZ / VERT	Limits (dBuV/m)		Margin (dB)	
	Peak	Average		Peak	Average		
2483.640	57.16	47.64	HORZ	74	54	-16.84	-6.36
2483.720	57.16	47.64	VERT	74	54	-16.84	-6.36
2485.420	56.96	47.34	HORZ	74	54	-17.04	-6.66
2486.560	57.51	47.22	VERT	74	54	-16.49	-6.78

IEEE 802.11n MCS8 20MHz Ant.0-Low

Freq. (MHz)	Emission (dBuV/m)		HORIZ / VERT	Limits (dBuV/m)		Margin (dB)	
	Peak	Average		Peak	Average		
2351.040	57.65	47.57	HORZ	74	54	-16.35	-6.43
2385.260	58.33	47.61	VERT	74	54	-15.67	-6.39
2390.540	59.93	48.65	HORZ	74	54	-14.07	-5.35
2390.720	60.86	48.99	VERT	74	54	-13.14	-5.01

IEEE 802.11n MCS8 20MHz Ant.0-High

Freq. (MHz)	Emission (dBuV/m)		HORIZ / VERT	Limits (dBuV/m)		Margin (dB)	
	Peak	Average		Peak	Average		
2484.840	58.16	47.22	HORZ	74	54	-15.84	-6.78
2485.144	57.85	47.28	VERT	74	54	-16.15	-6.72
2485.420	56.51	47.43	HORZ	74	54	-17.49	-6.57
2487.140	57.66	47.28	VERT	74	54	-16.34	-6.72

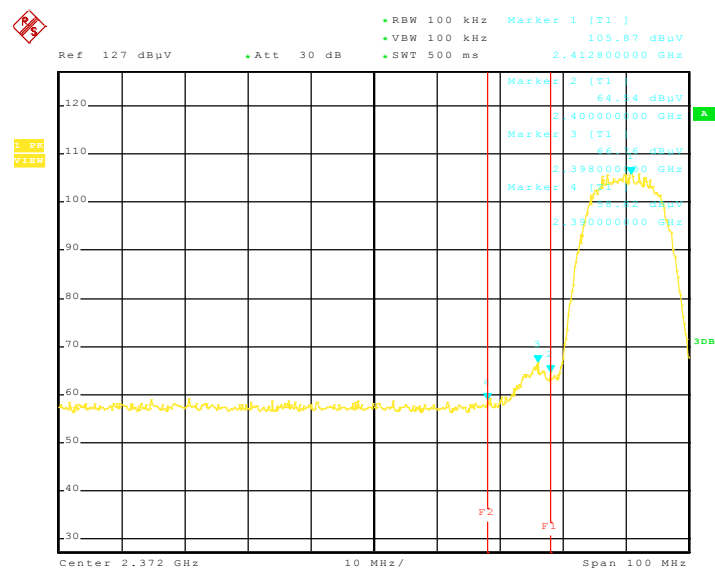
IEEE 802.11n MCS8 40MHz Ant.0-Low

Freq. (MHz)	Emission (dBuV/m)		HORIZ / VERT	Limits (dBuV/m)		Margin (dB)	
	Peak	Average		Peak	Average		
2351.340	58.06	47.65	HORZ	74	54	-15.94	-6.35
2384.120	57.84	48.50	VERT	74	54	-16.16	-5.50
2390.440	59.90	49.65	HORZ	74	54	-14.10	-4.35
2390.540	59.90	49.65	VERT	74	54	-14.10	-4.35

IEEE 802.11n MCS8 40MHz Ant.0-High

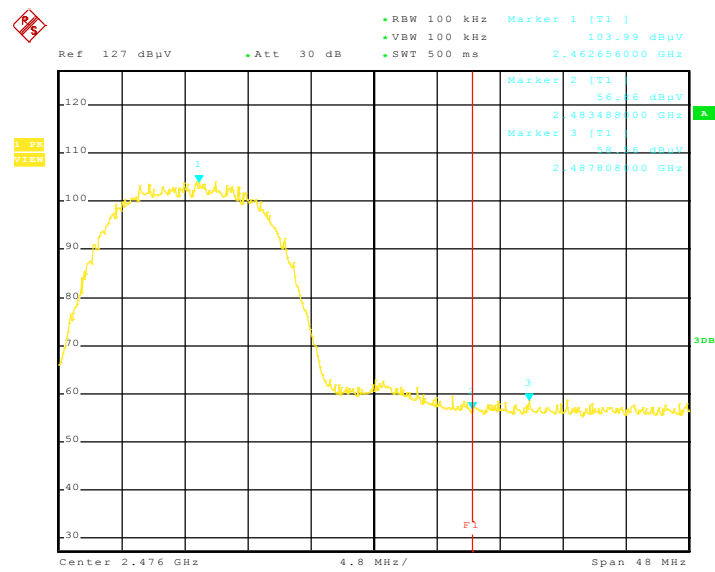
Freq. (MHz)	Emission (dBuV/m)		HORIZ / VERT	Limits (dBuV/m)		Margin (dB)	
	Peak	Average		Peak	Average		
2483.640	57.87	48.71	HORZ	74	54	-16.13	-5.29
2484.420	57.82	48.12	VERT	74	54	-16.18	-5.88
2485.260	57.89	47.95	HORZ	74	54	-16.11	-6.05
2485.640	57.13	47.34	VERT	74	54	-16.87	-6.66

IEEE 802.11b Channel: Low



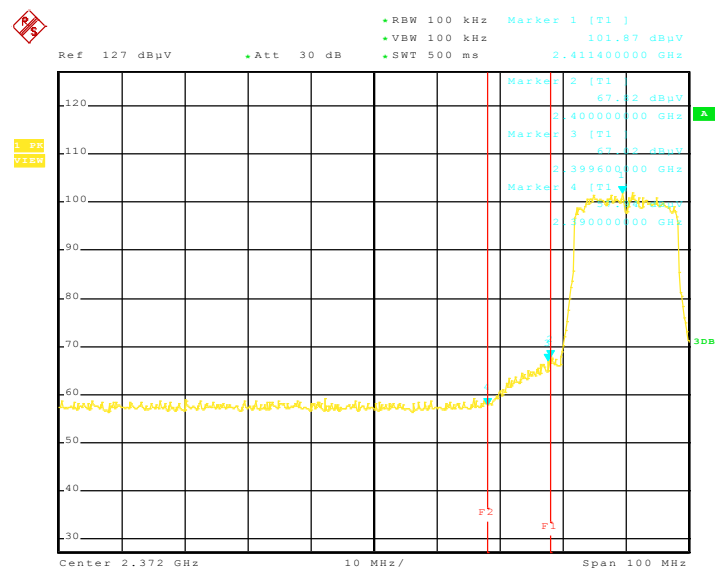
Date: 1.JAN.14502 01:02:48

IEEE 802.11b Channel: High



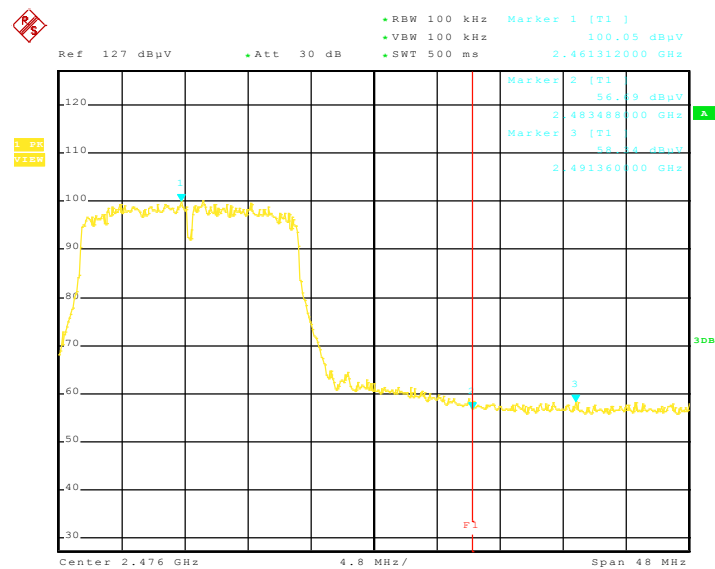
Date: 1.JAN.14502 01:10:22

IEEE 802.11g Channel: Low



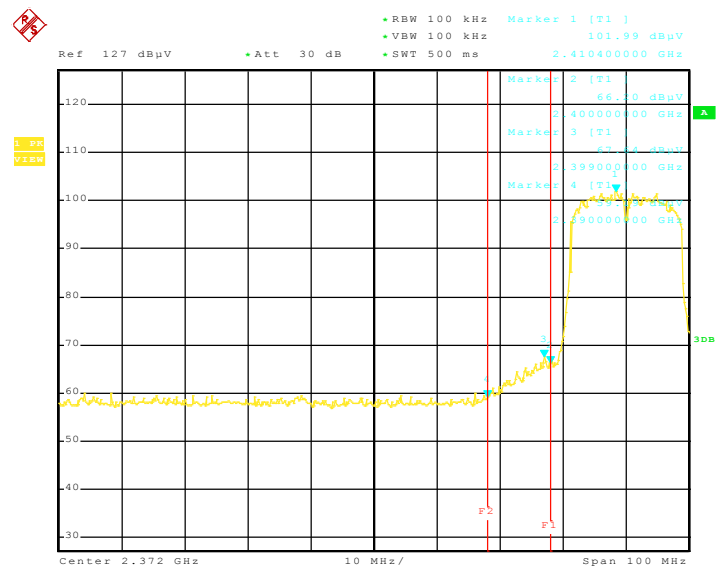
Date: 1.JAN.14502 01:15:07

IEEE 802.11g Channel: High



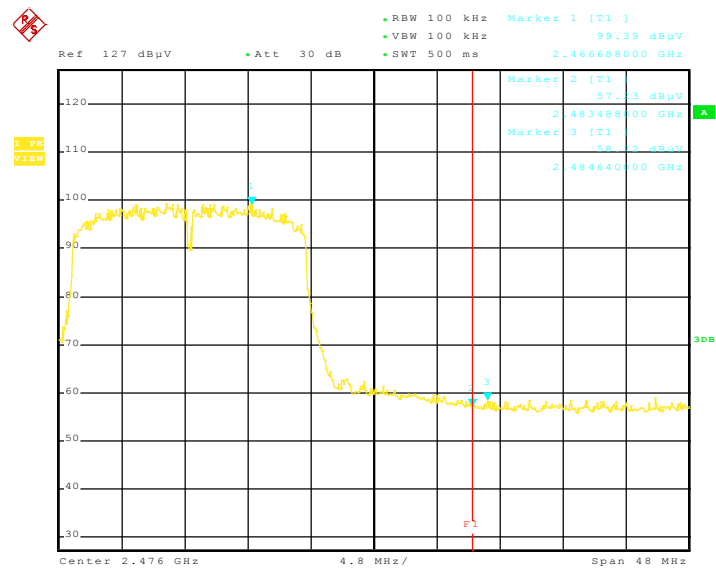
Date: 1.JAN.14502 01:18:22

IEEE 802.11n MCS8 20MHz Ant.0
Channel: Low



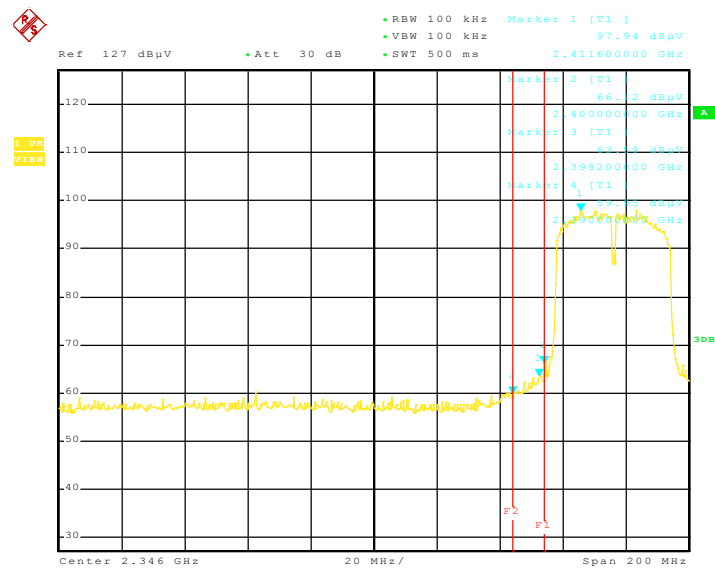
Date: 18.JAN.2013 10:26:47

IEEE 802.11n MCS8 20MHz Ant.0
Channel: High



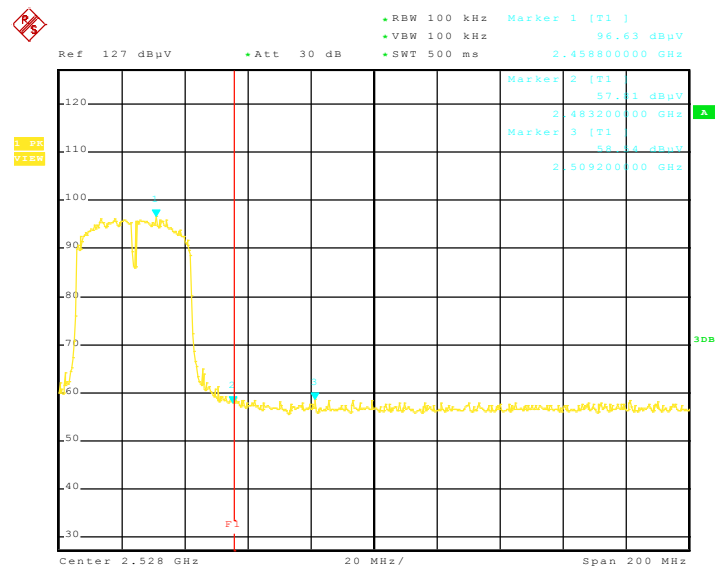
Date: 18.JAN.2013 10:31:14

IEEE 802.11n MCS8 40MHz Ant.0
Channel: Low



Date: 18.JAN.2013 10:39:43

IEEE 802.11n MCS8 40MHz Ant.0
Channel: High



Date: 18.JAN.2013 10:43:17

D. Peak Power Spectral Density

Product	: Tablet PC	Test Mode	: IEEE 802.11b/g/Draft n
Test Item	: Peak Power Spectral Density	Temperature	: 25 °C
Test Voltage	: DC 5V (From Host)	Humidity	: 56%RH
Test Result	: PASS		

IEEE 802.11b

Channel	Frequency (MHz)	100kHz PPSP (dBm)	BWCF Factor 100kHz to 3kHz	FCC Limit (dBm)	Result
Low	2412	-1.16	-15.23	8.00	PASS
Mid	2437	-2.59	-15.23		PASS
High	2462	-2.47	-15.23		PASS

IEEE 802.11g

Channel	Frequency (MHz)	100kHz PPSP (dBm)	BWCF Factor 100kHz to 3kHz	FCC Limit (dBm)	Result
Low	2412	-4.74	-15.23	8.00	PASS
Mid	2437	-5.99	-15.23		PASS
High	2462	-6.48	-15.23		PASS

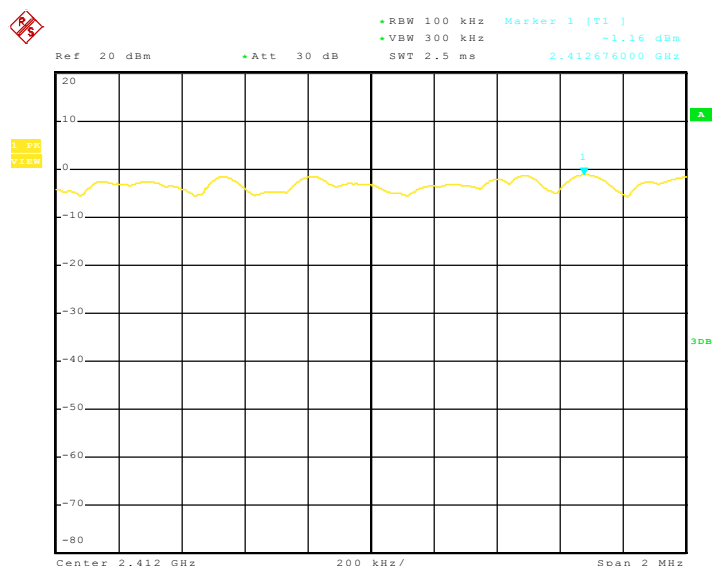
Draft n MCS0 20MHz Ant.0

Channel	Frequency (MHz)	100kHz PPSP (dBm)	BWCF Factor 100kHz to 3kHz	FCC Limit (dBm)	Result
Low	2412	-4.95	-15.23	8.00	PASS
Mid	2437	-6.92	-15.23		PASS
High	2462	-7.15	-15.23		PASS

Draft n MCS0 40MHz Ant.0

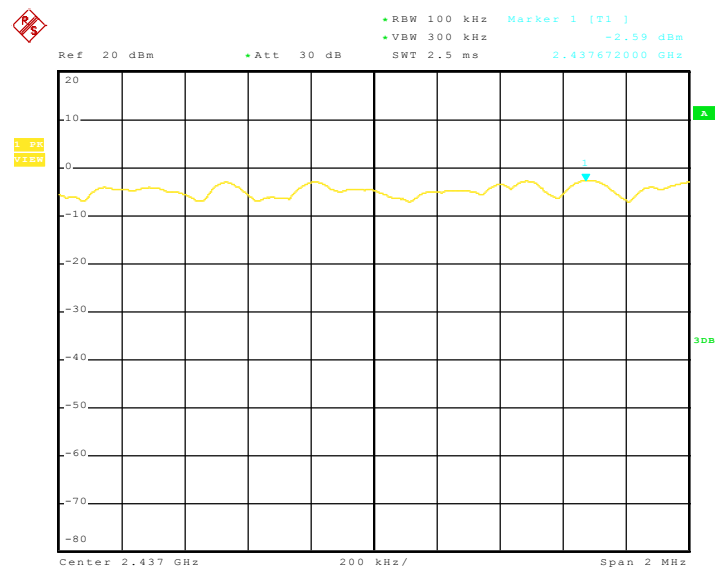
Channel	Frequency (MHz)	100kHz PPSP (dBm)	BWCF Factor 100kHz to 3kHz	FCC Limit (dBm)	Result
Low	2422	-9.98	-15.23	8.00	PASS
Mid	2437	-10.61	-15.23		PASS
High	2452	-10.14	-15.23		PASS

IEEE 802.11b Channel: Low



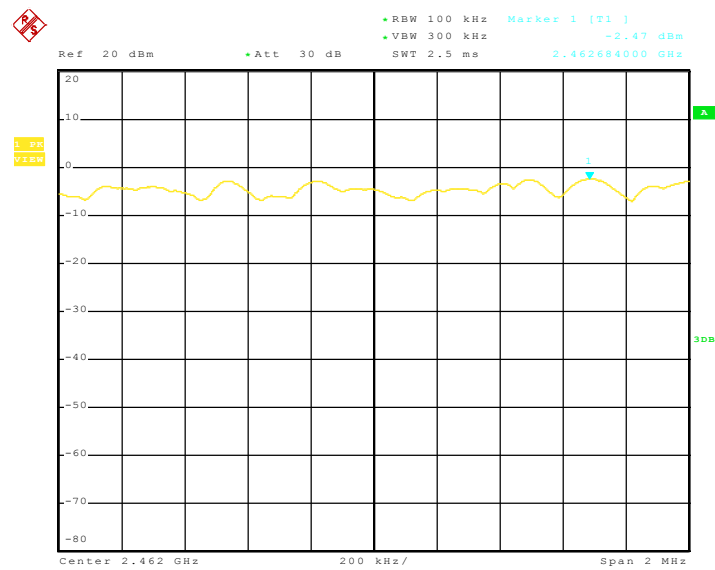
Date: 18.JAN.2013 10:47:44

IEEE 802.11b Channel: Mid



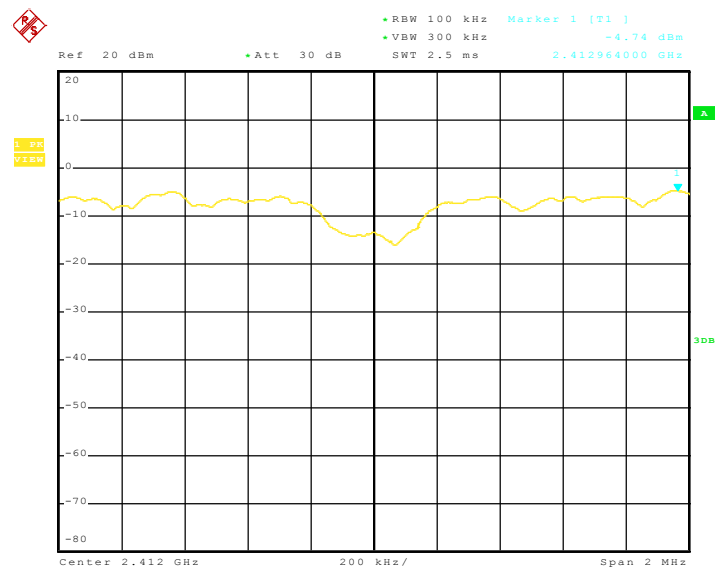
Date: 18.JAN.2013 10:48:36

IEEE 802.11b Channel: High



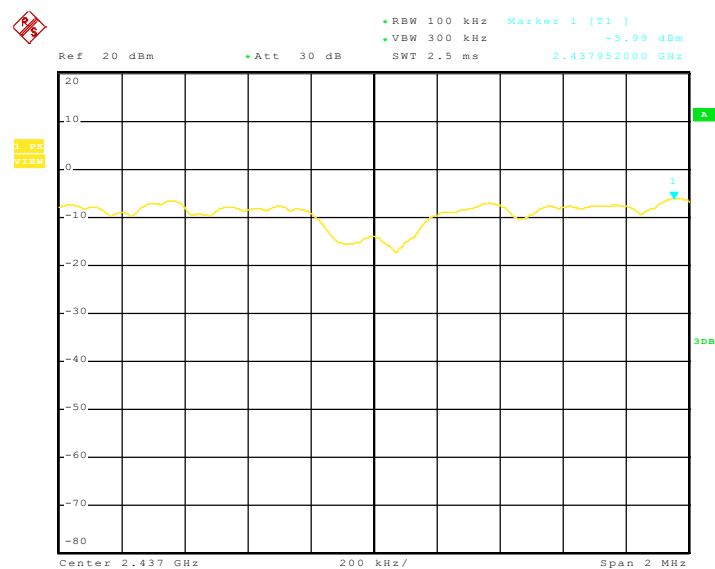
Date: 18.JAN.2013 10:54:43

IEEE 802.11g Channel: Low



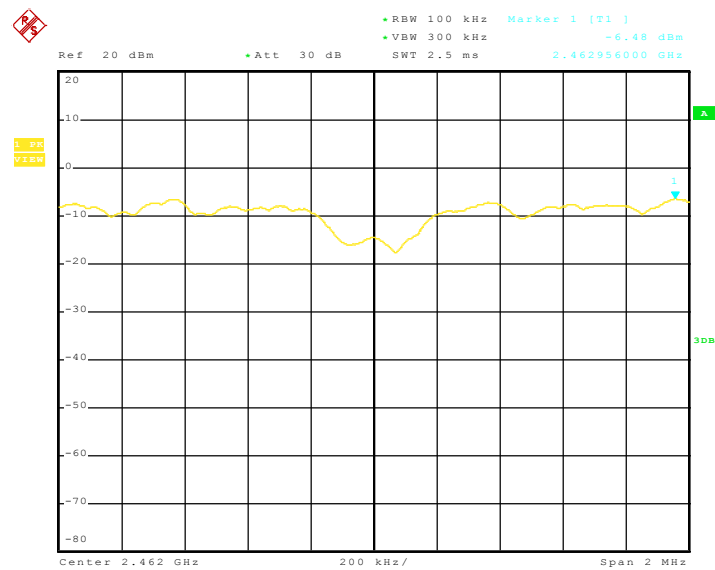
Date: 18.JAN.2013 11:03:57

IEEE 802.11g Channel: Mid



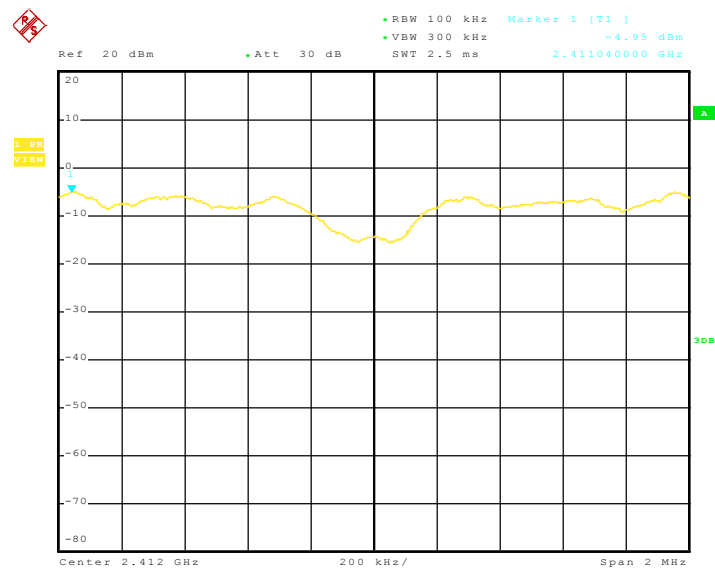
Date: 18.JAN.2013 11:05:50

IEEE 802.11g Channel: High



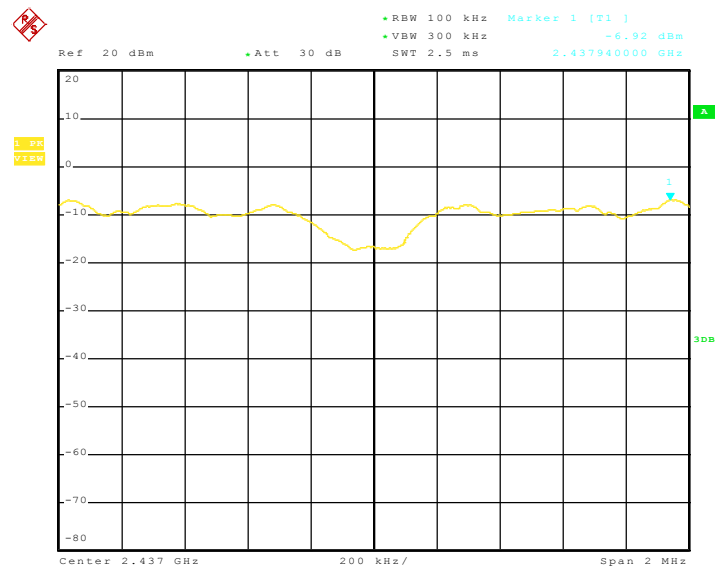
Date: 18.JAN.2013 11:08:20

Draft n MCS8 20MHz Ant.0/2412MHZ
(Channel: Low)



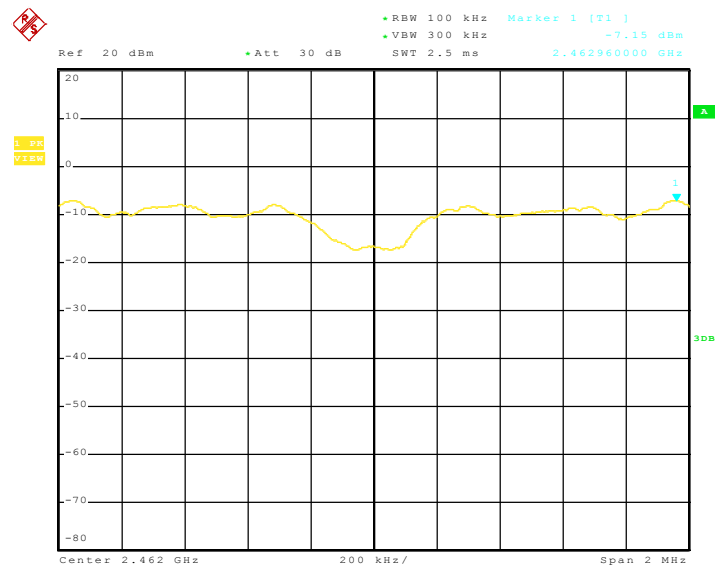
Date: 18.JAN.2013 11:10:57

Draft n MCS8 20MHz Ant.0/2437MHZ
(Channel: Mid)



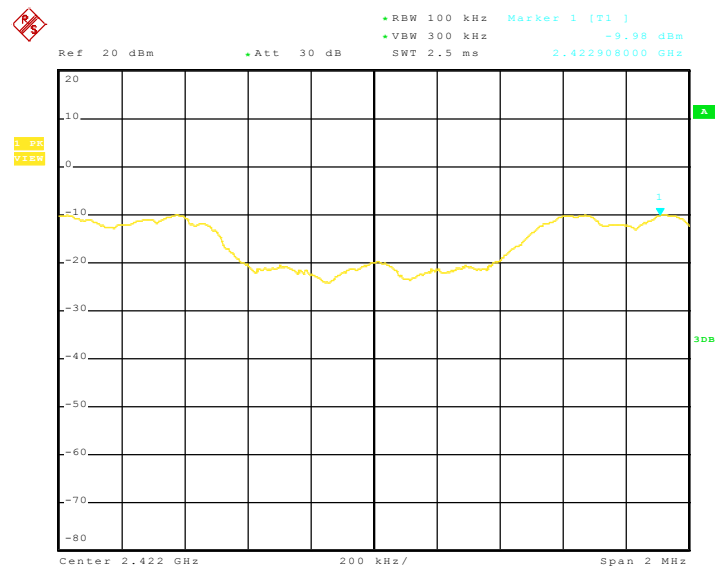
Date: 18.JAN.2013 11:12:24

Draft n MCS8 20MHz Ant.0/2462MHZ
(Channel: High)



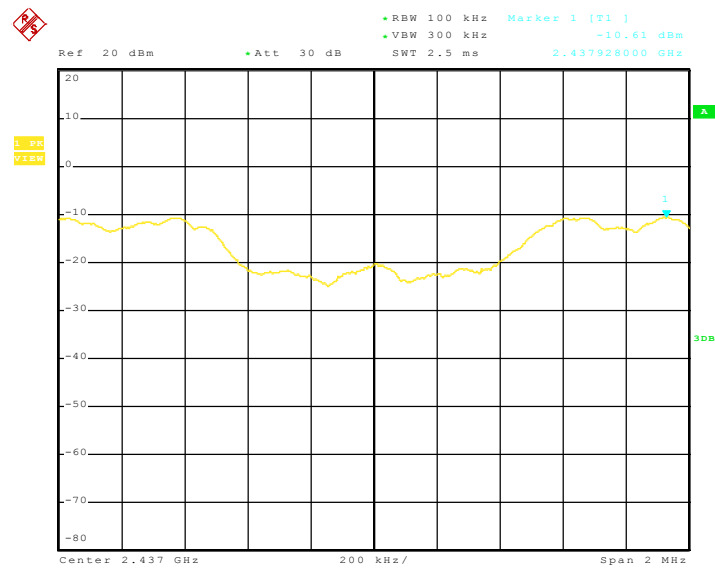
Date: 18.JAN.2013 11:13:25

Draft n MCS8 40MHz Ant.0/2422MHZ
(Channel: Low)



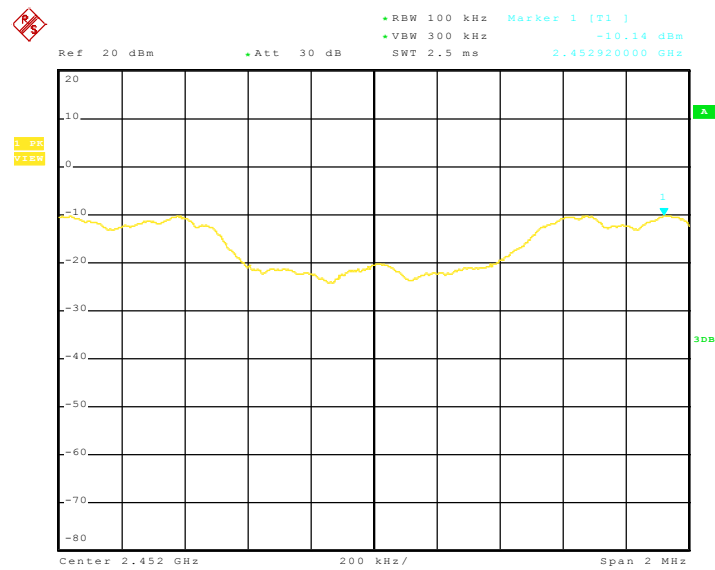
Date: 18.JAN.2013 11:19:36

Draft n MCS8 40MHz Ant.0/2437MHZ
(Channel: Mid)



Date: 18.JAN.2013 11:18:51

Draft n MCS8 40MHz Ant.0/2452MHZ
(Channel: High)



Date: 18.JAN.2013 11:22:16

6. Transmitter Spurious Radiated Emission at 3 Meters

6.1 Test Equipment

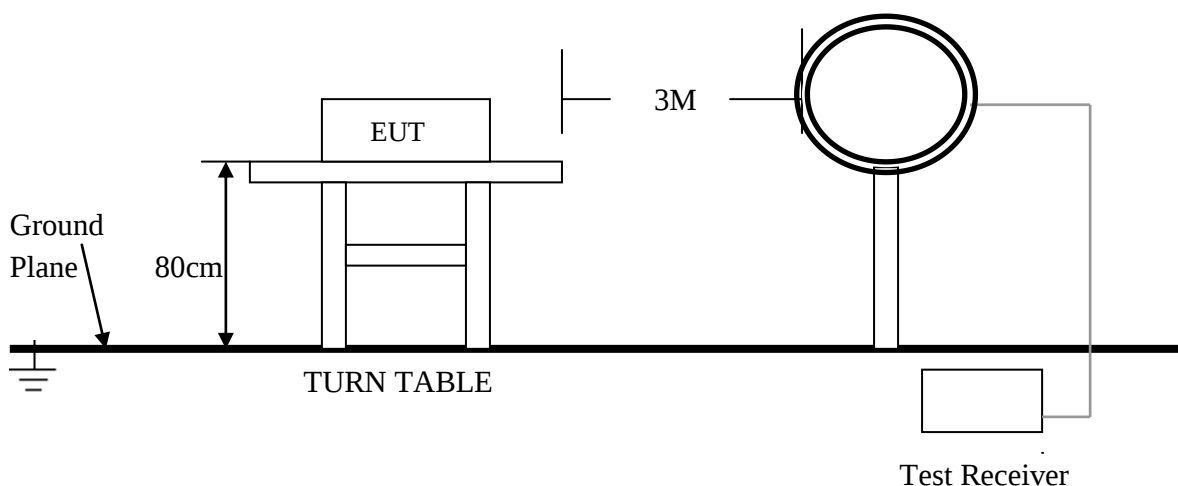
Please refer to Section 10 this report.

6.2 Test Procedure

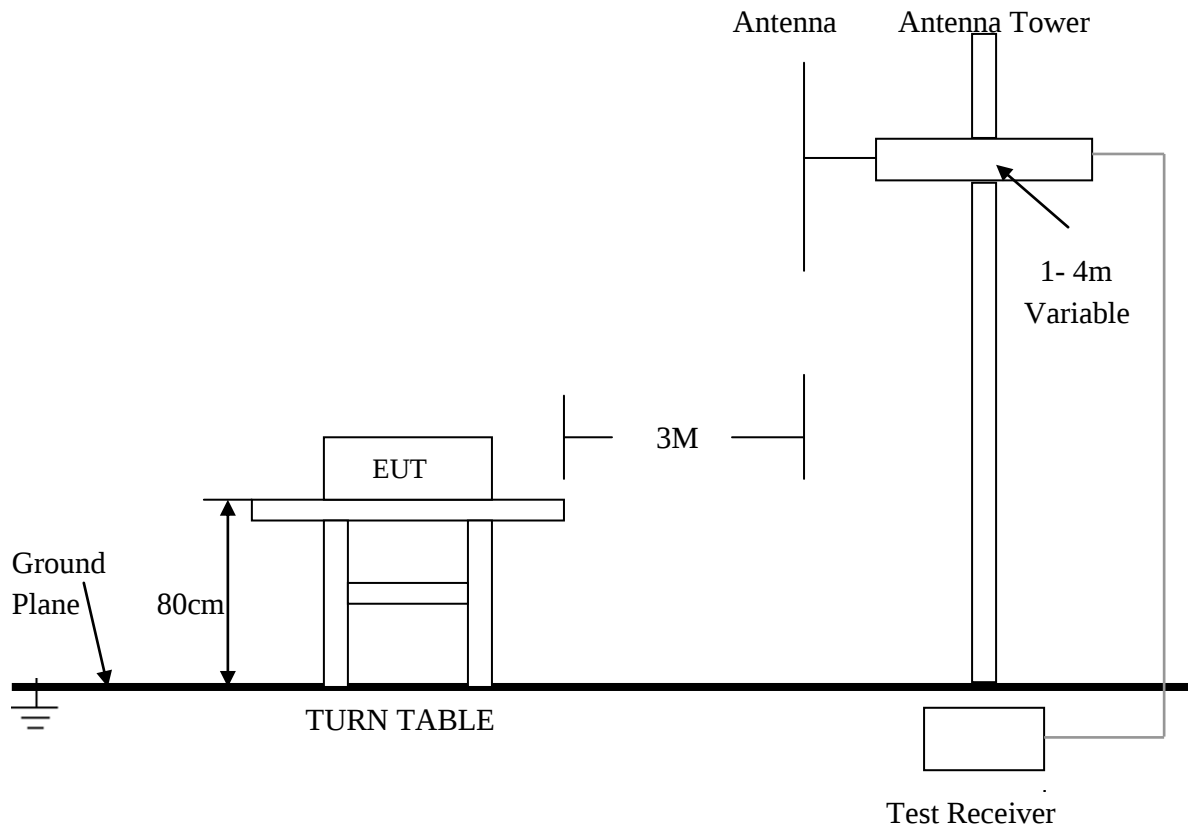
1. The EUT was tested according to ANSI C63.4 - 2003.
2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
3. The frequency spectrum from 9 kHz to 25 GHz was investigated. All readings from 9 kHz to 150 kHz are quasi-peak values with a resolution bandwidth of 200 Hz. All readings from 150 kHz to 30 MHz are quasi-peak values with a resolution bandwidth of 9 KHz. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
4. The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. The Receiving antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency. Emissions below 30MHz were measured with a loop antenna while emission above 30MHz were measured using a broadband E-field antenna.
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. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4 - 2003.

6.3 Test Setup

For Frequencies below 30 MHz



For the actual test configuration , please refer to the related items – Photos of Testing

For Frequencies above 30 MHz

For the actual test configuration , please refer to the related items – Photos of Testing

6. 4 Configuration of the EUT

Same as section 4.4 of this report

6. 5 EUT Operating Condition

Same as section 4.5 of this report.

6.6 Limit

In any 100 KHz bandwidth outside the operating frequency band, the radio frequency power that is produced by modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either at least 20 dB below that in any 100 KHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified in section 15.209(a), which lesser attenuation.

All other emissions inside restricted bands specified in section 15.205(a) shall not exceed the general radiated emission limits specified in section 15.209(a)

Note:

Applies to harmonics/spurious emissions that fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

47 CFR § 15.237(c): The emission limits as specified above are based on measurement instrument employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

FCC CFR 47, Part 15, Subpart C, Para. 15.205(a) – Restricted Frequency Bands

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
¹ 0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2655–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	(²)
13.36–13.41.			

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

² Above 38.6

FCC 47 CFR, Part 15.209(a) – Field Strength Limits within Restricted Frequency Bands

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

6. 7 Test Result

Product	: Tablet PC	Test Mode	: IEEE 802.11b/g/Draftn
Test Item	: Spurious Radiated Emissions	Temperature	: 25 °C
Test Voltage	: DC 5V (From Host)	Humidity	: 56%RH
Test Result	: PASS		

IEEE 802.11b Channel: Low

Freq. (MHz)	Emission (dBuV/m) Peak Detector	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4824.00	49.23	HORZ	74.0 / 54.0	-24.77
4824.00	48.01	VERT	74.0 / 54.0	-25.99
7236.00	49.32	HORZ	74.0 / 54.0	-24.68
7236.08	48.53	VERT	74.0 / 54.0	-25.47
9648.02	49.34	HORZ	74.0 / 54.0	-24.66
9648.10	47.22	VERT	74.0 / 54.0	-26.78
24120.04	-	HORZ	74.0 / 54.0	-
24120.20	-	VERT	74.0 / 54.0	-

IEEE 802.11b Channel: Mid

Freq. (MHz)	Emission (dBuV/m) Peak Detector	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4874.00	49.13	HORZ	74.0 / 54.0	-24.87
4874.00	48.55	VERT	74.0 / 54.0	-25.45
7311.00	49.61	HORZ	74.0 / 54.0	-24.39
7311.02	48.98	VERT	74.0 / 54.0	-25.02
9748.10	49.11	HORZ	74.0 / 54.0	-24.89
9748.00	47.52	VERT	74.0 / 54.0	-26.48
24370.10	-	HORZ	74.0 / 54.0	-
24370.00	-	VERT	74.0 / 54.0	-

IEEE 802.11b Channel: High

Freq. (MHz)	Emission (dBuV/m) Peak Detector	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4924.00	51.66	HORZ	74.0 / 54.0	-22.34
4924.00	51.15	VERT	74.0 / 54.0	-22.85
7386.12	51.34	HORZ	74.0 / 54.0	-22.66
7368.00	51.21	VERT	74.0 / 54.0	-22.79
9848.00	51.78	HORZ	74.0 / 54.0	-22.22
9848.00	51.12	VERT	74.0 / 54.0	-22.88
24620.11	-	HORZ	74.0 / 54.0	-
24620.00	-	VERT	74.0 / 54.0	-

- Note:**
- (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
 - (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
 - (3) Receiver setting (Peak Detector) : RBW=1MHz; VBW=1MHz; Span=100MHz
 - (4) Receiver setting (AVG Detector): RBW=1MHz; VBW=30Hz; Span=20MHz
 - (5) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
 - (6) Where an emission level is indicated by a -, levels had a margin greater than 20 dB when compared to the limit.

IEEE 802.11g Channel: Low

Freq. (MHz)	Emission (dBuV/m) Peak	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4824.00	52.06	HORZ	74.0 / 54.0	-21.94
4824.00	51.88	VERT	74.0 / 54.0	-22.12
7236.00	50.98	HORZ	74.0 / 54.0	-23.02
7236.08	51.45	VERT	74.0 / 54.0	-22.55
9648.02	52.10	HORZ	74.0 / 54.0	-21.90
9648.10	51.67	VERT	74.0 / 54.0	-22.33
24120.04	-	HORZ	74.0 / 54.0	-
24120.20	-	VERT	74.0 / 54.0	-

IEEE 802.11g Channel: Mid

Freq. (MHz)	Emission (dBuV/m) Peak	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4874.00	51.23	HORZ	74.0 / 54.0	-22.77
4874.00	50.12	VERT	74.0 / 54.0	-23.88
7311.00	51.86	HORZ	74.0 / 54.0	-22.14
7311.02	50.35	VERT	74.0 / 54.0	-23.65
9748.10	50.48	HORZ	74.0 / 54.0	-23.52
9748.00	49.19	VERT	74.0 / 54.0	-24.81
24370.10	-	HORZ	74.0 / 54.0	-
24370.00	-	VERT	74.0 / 54.0	-

IEEE 802.11g Channel: High

Freq. (MHz)	Emission (dBuV/m) Peak	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4924.00	49.44	HORZ	74.0 / 54.0	-24.56
4924.00	48.38	VERT	74.0 / 54.0	-25.62
7386.12	49.78	HORZ	74.0 / 54.0	-24.22
7368.00	47.36	VERT	74.0 / 54.0	-26.64
9848.00	48.88	HORZ	74.0 / 54.0	-25.12
9848.00	47.24	VERT	74.0 / 54.0	-26.76
24620.11	-	HORZ	74.0 / 54.0	-
24620.00	-	VERT	74.0 / 54.0	-

- Note:**
- (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
 - (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
 - (3) Receiver setting (Peak Detector) : RBW=1MHz; VBW=1MHz; Span=100MHz
 - (4) Receiver setting (AVG Detector): RBW=1MHz; VBW=30Hz; Span=20MHz
 - (5) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
 - (6) Where an emission level is indicated by a -, levels had a margin greater than 20 dB when compared to the limit.

Draft n MCS8 20MHz Ant.0 Channel: Low

Freq. (MHz)	Emission (dBuV/m) Peak /Av	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4824.00	50.14	HORZ	74.0 / 54.0	-23.86
4824.00	48.38	VERT	74.0 / 54.0	-25.62
7236.00	49.06	HORZ	74.0 / 54.0	-24.94
7236.08	47.65	VERT	74.0 / 54.0	-26.35
9648.02	48.48	HORZ	74.0 / 54.0	-25.52
9648.10	47.56	VERT	74.0 / 54.0	-26.44
24120.04	-	HORZ	74.0 / 54.0	-
24120.20	-	VERT	74.0 / 54.0	-

Draft n MCS8 20MHz Ant.0 Channel: Mid

Freq. (MHz)	Emission (dBuV/m) Peak	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4874.00	52.12	HORZ	74.0 / 54.0	-21.88
4874.00	51.54	VERT	74.0 / 54.0	-22.46
7311.00	51.22	HORZ	74.0 / 54.0	-22.78
7311.02	50.36	VERT	74.0 / 54.0	-23.64
9748.10	51.79	HORZ	74.0 / 54.0	-22.21
9748.00	50.18	VERT	74.0 / 54.0	-23.82
24370.10	-	HORZ	74.0 / 54.0	-
24370.00	-	VERT	74.0 / 54.0	-

Draft n MCS8 20MHz Ant.0 Channel: High

Freq. (MHz)	Emission (dBuV/m) Peak /Av	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4924.00	52.38	HORZ	74.0 / 54.0	-21.62
4924.00	51.44	VERT	74.0 / 54.0	-22.56
7386.12	50.94	HORZ	74.0 / 54.0	-23.06
7368.00	49.78	VERT	74.0 / 54.0	-24.22
9848.00	50.38	HORZ	74.0 / 54.0	-23.62
9848.00	50.14	VERT	74.0 / 54.0	-23.86
24620.11	-	HORZ	74.0 / 54.0	-
24620.00	-	VERT	74.0 / 54.0	-

- Note:**
- (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
 - (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
 - (3) Receiver setting (Peak Detector) : RBW=1MHz; VBW=1MHz; Span=100MHz
 - (4) Receiver setting (AVG Detector): RBW=1MHz; VBW=30Hz; Span=20MHz
 - (5) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
 - (6) Where an emission level is indicated by a -, levels had a margin greater than 20 dB when compared to the limit.

Draft n MCS8 40MHz Ant.0 Channel: Low

Freq. (MHz)	Emission (dBuV/m) Peak /Av	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4844.00	49.14	HORZ	74.0 / 54.0	-24.86
4844.00	48.78	VERT	74.0 / 54.0	-25.22
7266.00	49.14	HORZ	74.0 / 54.0	-24.86
7266.08	48.58	VERT	74.0 / 54.0	-25.42
9688.02	49.16	HORZ	74.0 / 54.0	-24.84
9688.10	47.52	VERT	74.0 / 54.0	-26.48
24220.04	-	HORZ	74.0 / 54.0	-
24220.20	-	VERT	74.0 / 54.0	-

Draft n MCS8 40MHz Ant.0 Channel: Mid

Freq. (MHz)	Emission (dBuV/m) Peak	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4874.00	49.94	HORZ	74.0 / 54.0	-24.06
4874.00	48.37	VERT	74.0 / 54.0	-25.63
7311.00	49.78	HORZ	74.0 / 54.0	-24.22
7311.02	48.15	VERT	74.0 / 54.0	-25.85
9748.10	48.64	HORZ	74.0 / 54.0	-25.36
9748.00	48.13	VERT	74.0 / 54.0	-25.87
24370.10	-	HORZ	74.0 / 54.0	-
24370.00	-	VERT	74.0 / 54.0	-

Draft n MCS8 40MHz Ant.0 Channel: High

Freq. (MHz)	Emission (dBuV/m) Peak /Av	HORIZ / VERT	Limits (dBuV/m) Peak / Average	Margin (dB)
4904.00	49.69	HORZ	74.0 / 54.0	-24.31
4904.00	48.11	VERT	74.0 / 54.0	-25.89
7356.12	48.74	HORZ	74.0 / 54.0	-25.26
7356.00	47.18	VERT	74.0 / 54.0	-26.82
9808.00	48.78	HORZ	74.0 / 54.0	-25.22
9808.00	47.25	VERT	74.0 / 54.0	-26.75
24520.11	-	HORZ	74.0 / 54.0	-
24520.00	-	VERT	74.0 / 54.0	-

- Note:**
- (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
 - (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
 - (3) Receiver setting (Peak Detector) : RBW=1MHz; VBW=1MHz; Span=100MHz
 - (4) Receiver setting (AVG Detector): RBW=1MHz; VBW=30Hz; Span=20MHz
 - (5) The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
 - (6) Where an emission level is indicated by a -, levels had a margin greater than 20 dB when compared to the limit.

General Radiated Emission Data

Product	: Tablet PC	Test Mode	: 802.11b_CH Mid/Charge/Data Storage
Test Item	: Fundamental Radiated Emission Data	Temperature	: 25 °C
Test Voltage	: DC 5V/2000mA	Humidity	: 56%RH
Test Result	: PASS	Model	:

For Frequency Below 30MHz

Freq. (MHz)	Emission (dBuV/m) QP Detector	HORIZ / VERT	Limits (dBuV/m)	Margin (dB)
N/A	N/A	N/A	N/A	N/A

- Note:**
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
 - (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
 - (3) Emission Level = Reading Level + Probe Factor + Cable Loss.

For Frequency Above 30MHz**Running Mode**

Freq. (MHz)	Emission (dBuV/m) QP Detector	HORIZ / VERT	Limits (dBuV/m)	Margin (dB)
441.000	38.55	HORZ	46.0	-7.45
114.000	32.59	VERT	43.5	-10.91
492.400	37.36	HORZ	46.0	-8.64
399.000	41.13	VERT	46.0	-4.87
513.000	38.78	HORZ	46.0	-7.22
513.000	38.67	VERT	46.0	-7.33

Charging Mode

Freq. (MHz)	Emission (dBuV/m) QP Detector	HORIZ / VERT	Limits (dBuV/m)	Margin (dB)
360.000	43.32	HORZ	46.0	-2.68
55.840	34.72	VERT	40.0	-5.28
399.000	44.82	HORZ	46.0	-1.18
114.000	34.61	VERT	43.5	-8.89
741.000	44.65	HORZ	46.0	-1.35
342.000	37.18	VERT	46.0	-8.82

Data Transfer Mode

Freq. (MHz)	Emission (dBuV/m) QP Detector	HORIZ / VERT	Limits (dBuV/m)	Margin (dB)
62.960	35.25	HORZ	40.0	-4.75
62.840	34.81	VERT	40.0	-5.19
151.120	41.52	HORZ	43.5	-1.98
148.480	36.62	VERT	43.5	-6.88
386.120	44.83	HORZ	46.0	-1.17
475.200	44.61	VERT	46.0	-1.39

- Note:**
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
 - (2) Emission Level = Reading Level + Probe Factor + Cable Loss.

7. RF Exposure Requirements

7.1 Test Equipment

Please refer to Section 10 this report.

7.2 Limit

According to FCC 15.247(e)(i) and FCC 1.1307(b)(1), Systems operating under provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commissions guidelines.

According to KDB 447498 D01 General RF Exposure v05, section 4.3.1

SAR Test Exclusion Thresholds for 100 MHz-6GHz and $\leq 50\text{mm}$

Frequency Range		Maximum measured transmitter power frequency(MHz)	SAR Limitation (mW)
Low Frequency(MHz)	High Frequency(MHz)		
2412	2462	2412	10

7.3 Test Result

Product : Tablet PC
 Test Item : RF Exposure
 Test Voltage : DC 5V
 Test Result : **PASS**

Test Mode : IEEE 802.11b/g/n
 Temperature : 25 °C
 Humidity : 56%RH

RF Exposure Requirements	Compliance with FCC Rules
EIRP= $P \times G$ Where: P=Power input to antenna G=Power gain of the antenna relative to an isotropic radiator	Maximum output power at antenna input terminal: 6.52 dBm = 4.49 mW (802.11b/g, 2412MHz) 5.43 dBm = 3.49 mW (Draft n, 2412MHz) Prediction distance: $\leq 50\text{mm}$ Antenna gain : 3.0 dBi SAR Test Exclusion Threshold is 10 mW 802.11b/g: 8.96 mW Draft n : 6.96 mW The max. output power E.I.R.P < 10 mW Conclusion: No SAR is required.

8. Photos of Testing

8. 1 EUT Test Photographs

Conducted emission test view



Radiated emission test view





8. 2 EUT Detailed Photographs

EUT top view





EUT bottom view

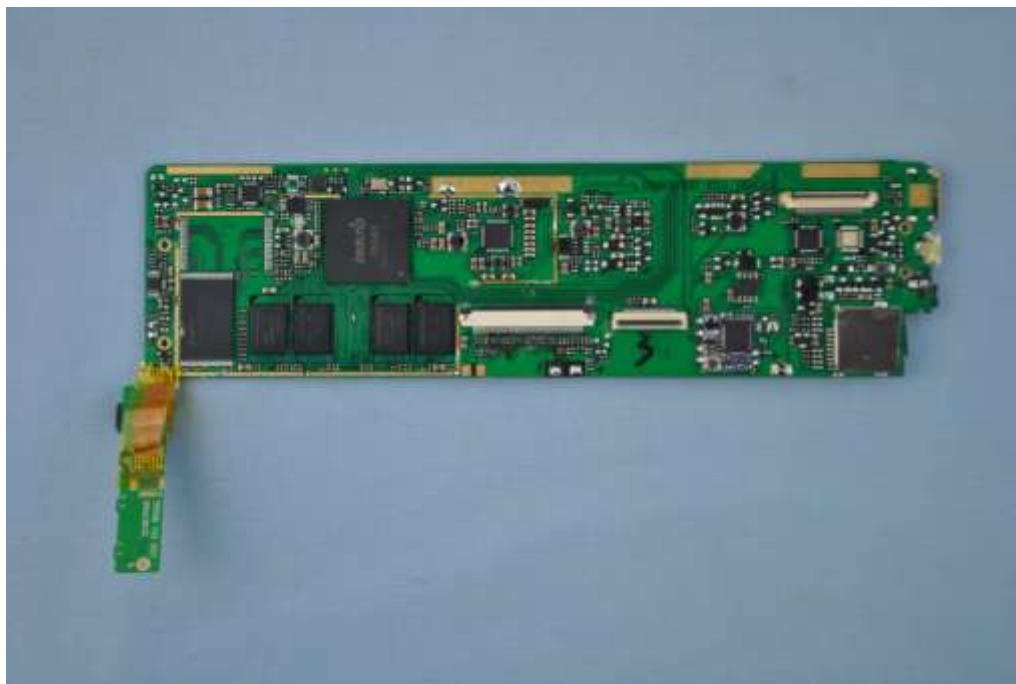




EUT inside whole view



Main & RF board component side



Main & RF board solder side



Adapter top view



Adapter side view



Adapter inside whole view



9. FCC ID Label

FCC ID: OI2K701H

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.

Proposed Label Location on EUT

EUT Bottom View/Proposed FCC ID Label Location



10. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

Equipment/ Facilities	Manufacturer	Model #	Serial No.	Due Date
Turntable	SinTek	N/A	N/A	NCR
Antenna Tower	SinTek	N/A	N/A	NCR
OATS	SinTek	N/A	N/A	Sep.28, 2013
Pre-Amplifier	Agilent	87405C	KMO-SZ155	Dec.6, 2013
Pre-Amplifier	Com-Power	PAM-840	KMO-SZ156	Dec.6, 2013
Horn Antenna	Com-Power	AH-840	KMO-SZ157	Dec.6, 2013
EMI Test Receiver	Rohde & Schwarz	ESPI7	KMO-SZ002	June 01, 2013
Spectrum Analyzer	Rohde & Schwarz	FSP40	KMO-SZ003	May 27, 2013
Signal Generator	FLUKE	PM5418+Y/C	KMO-SZ020	May 27, 2013
Loop Antenna	Rohde & Schwarz	HFH2-Z2	KMO-SZ004	Jan. 30, 2013
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	KMO-SZ005	Sep.18, 2013
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	KMO-SZ006	Sep.18, 2013
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120D	KMO-SZ007	Sep.18, 2013
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120D	KMO-SZ008	Sep.18, 2013
AMN	Rohde & Schwarz	ESH3-Z5	KMO-SZ009	May 27, 2013
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	KMO-SZ077	Nov.29, 2013
ISN	SCHWARZBECK	NTFM 8158 CAT3	KMO-SZ070	Nov.19, 2013
ISN	SCHWARZBECK	NTFM 8158 CAT5	KMO-SZ071	Nov.19, 2013
ISN	SCHWARZBECK	NTFM 8158 CAT6	KMO-SZ072	Nov.19, 2013
KMO Shielded Room	KMO	KMO-001	N/A	N/A
Coaxial Cable with N-Connectors	SCHWARZBECK	AK9515H	KMO-SZ037	Sep.18, 2013
SOHO Telephone Switching System	IKE	2000-108C	N/A	NCR
3m Anechoic Chamber	KMO	KMO-3AC	KMO-3AC-1	May 29, 2013
Temperature Chamber	TABAI	PSL-4GTW	N/A	Feb.10, 2013