FCC RADIO TEST REPORT

according to

47 CFR FCC Part 15 Subpart C § 15.247

Equipment : 11n wireless PCI Card

Model No. : LP-7635

Brand Name : None & Loopcomm Filing Type : New Application

Applicant : Loopcomm Technology Inc.

1F, NO. 114, Leng-Cheng Rd, Chung-Ho City, Taipei county,

235, Taiwan R.O.C.

FCC ID : VYTLP-7635

Manufacturer : Loopcomm Technology Inc.

1F, NO. 114, Leng-Cheng Rd, Chung-Ho City, Taipei county,

235, Taiwan R.O.C.

Received Date : Aug. 21, 2009 Final Test Date : Aug. 31, 2009

Statement

Test result included is only for the 802.11b/g part of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in **ANSI C63.4-2003** and **47 CFR FCC Part 15 Subpart C**.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.





SPORTON International Inc.

6F, No. 106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 Issued Date : Sep. 11, 2009 FCC ID : VYTLP-7635

Report No.: FR973022AC

: VYTLP-7635

History of This Test Report

Original Issue Date: Sep. 11, 2009

Report No.: FR973022AC

No additional attachment.

□ Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

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CERTIFICATE OF COMPLIANCE

according to

47 CFR FCC Part 15 Subpart C § 15.247

Equipment: 11n wireless PCI Card

Model No. : LP-7635

Brand Name: None & Loopcomm

Applicant : Loopcomm Technology Inc.

1F, NO. 114, Leng-Cheng Rd, Chung-Ho City,

Taipei county, 235, Taiwan R.O.C.

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Aug. 21, 2009 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

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1 SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C					
Part	Rule Section	Description of Test	Result	Under Limit	
3.1	15.207	AC Power Line Conducted Emissions	Complies	6.91 dB	
3.2	15.247(b)(3)	Maximum Conducted Output Power	Complies	40.37 dB	
3.3	15.247(e)	Power Spectral Density	Complies	45.16 dB	
3.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-	
3.5	15.247(d)	Radiated Emissions	Complies	0.70 dB	
3.6	15.247(d)	Band Edge Emissions	Complies	8.06 dB	
3.7	15.203	Antenna Requirements	Complies	-	

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Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Maximum Peak Conducted Output Power	±0.8dB	Confidence levels of 95%
Power Spectral Density	±0.5dB	Confidence levels of 95%
6dB Spectrum Bandwidth	±8.5×10 ⁻⁸	Confidence levels of 95%
Radiated Emissions (9kHz~30MHz)	±0.8dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	±1.9dB	Confidence levels of 95%
Radiated / Band Edge Emissions (1GHz~18GHz)	±1.9dB	Confidence levels of 95%
Radiated Emissions (18GHz~40GHz)	±1.9dB	Confidence levels of 95%
Temperature	±0.7	Confidence levels of 95%
Humidity	±3.2%	Confidence levels of 95%
DC / AC Power Source	±1.4%	Confidence levels of 95%

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2 GENERAL INFORMATION

2.1 Product Details

Only the radio detail of IEEE 802.11b/g is shown in the table below. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

Items	Description
Power Type	From host
Modulation	DSSS for IEEE 802.11b; OFDM for IEEE 802.11g
Data Modulation	DSSS (DBPSK / DQPSK / CCK); OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	DSSS (1/ 2/ 5.5/11) ; OFDM (6/9/12/18/24/36/48/54)
Frequency Range	2400 ~ 2483.5MHz
Channel Number	11b/g: 11
Channel Band Width (99%)	11b: 15.32 MHz ; 11g: 18.12 MHz
Conducted Output Power	11b: -10.37 dBm ; 11g: -11.98 dBm

2.2 Table for Filed Antenna

An	t. Antenna Type	Connector	Gain (dBi)	Remark
Α	Dipole Antenna	Reversed-SMA	3.00	TX / RX

2.3 Table for Carrier Frequencies

Frequency Allocation for 802.11b/g

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
2400~2483.5MHz	3	2422 MHz	9	2452 MHz
2400~2463.5WIFIZ	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz	-	-

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2.4 Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on the entire possible configuration for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
AC Power Line Conducted Emissions	Normal Mode	Auto	-
Maximum Conducted Output Power	11b/CCK	11 Mbps	1/6/11
Power Spectral Density			
6dB Spectrum Bandwidth	44 ~ / DDOL/	C MAlore a	410144
Radiated Emissions Above 1GHz	11g/BPSK	6 Mbps	1/6/11
Band Edge Emissions			
Radiated Emissions Below 1GHz	Normal Mode	Auto	-

2.5 Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
CO04-HY	Conduction	Hwa Ya	643075	IC 4086B-1	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-
03CH03-HY	SAC	Hwa Ya	643075	IC 4086B-1	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

2.6 Table for Supporting Units

Support Unit	Brand	Model	FCC ID	Remark	
P.C.	HP	DC579AV	DoC		
LCD Monitor	DELL	1703FPt	N/A		
P/S2 Keyboard	BTC	9110	E5XKB9110	Conducted	
P/S2 Mouse	HP	M-SBJ96	N/A	Conducted	
Modem	ACEEX	DM1414	IFAXDM1414		
Printer	EPSON	LQ300	DoC		
P.C.	HP	DC330ut	DoC		
P/S2 Keyboard	BTC	9110	E5XKB9110	5 "	
Mouse	HP	M-S69	DoC	Radiated	
LCD Monitor	DELL	1703FPt	N/A		

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2.7 Table for Parameters of Test Software Setting

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.

Power Parameters of IEEE 802.11b/g

Test Software Version	RT2860QA		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	19	19	19
IEEE 802.11g	19	19	19

2.8 EUT Operation during Test

An executive program, EMCTEST.EXE and RaUI under WIN XP, which generates a complete line of continuously repeating "H" pattern was used as the test software.

The P.C. sends "H" messages to the LCD monitor, and the LCD monitor displays "H" patterns on the screen.

Executed "ping.exe" to link with the remote workstation to receive and transmit data by LAN and WLAN.

Executed "RT2860QA" to keep transmitting signals at fixed frequency.

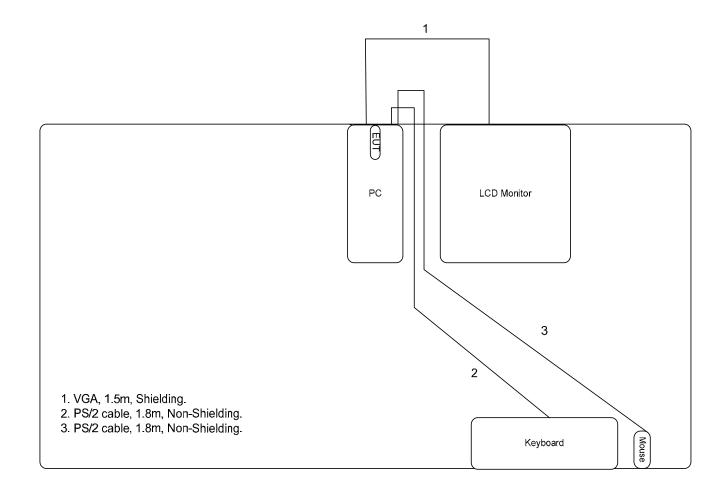
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2.9 Test Configuration

2.9.1 Radiation Emissions Test Configuration



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3 TEST RESULT

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Class B

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

3.1.2 Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.1.3 Test Procedures

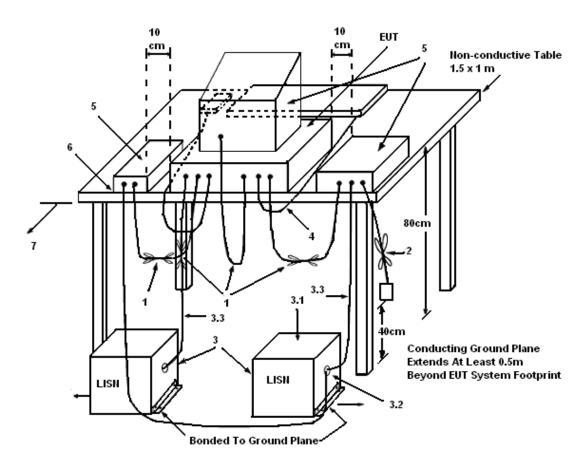
- 1. Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
- 4. The frequency range from 150 KHz to 30 MHz was searched.
- 5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. The measurement has to be done between each power line and ground at the power terminal.

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3.1.4 Test Setup Layout



LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω . LISN can be placed on top of, or immediately beneath, reference ground plane.
- (3.1) All other equipment powered from additional LISN(s).
- (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
- (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

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3.1.5 Test Deviation

There is no deviation with the original standard.

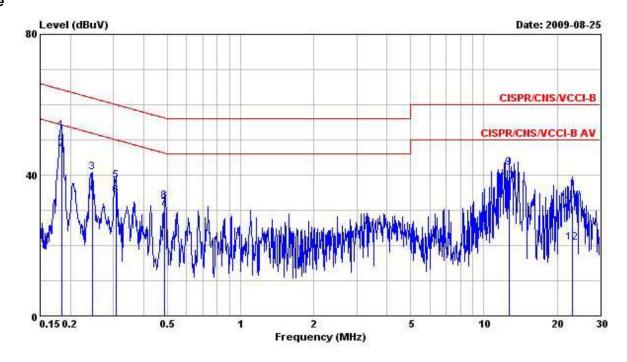
3.1.6 EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

3.1.7 Results of AC Power Line Conducted Emissions Measurement

Final Test date	Aug. 25, 2009	Test Site No.	CO04-HY
Temperature	25	Humidity	55%
Test Engineer	Chris	Configuration	Normal Mode

Line



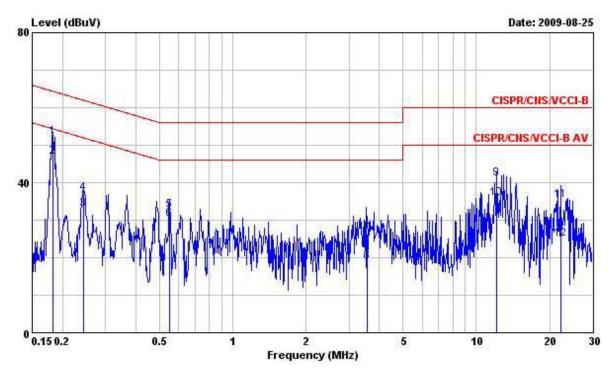
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	d .
1	0.1837660	52.60	-11.71	64.31	52.21	0.08	0.31	QP
2	@0.1837660	47.40	-6.91	54.31	47.01	0.08	0.31	Average
3	0.2455440	40.70	-21.21	61.91	40.36	0.08	0.26	QP
4	0.2455440	34.42	-17.49	51.91	34.08	0.08	0.26	Average
5	0.3067120	38.41	-21.65	60.06	38.13	0.09	0.19	QP
6	0.3067120	34.29	-15.77	50.06	34.01	0.09	0.19	Average
7	0.4889010	30.65	-15.54	46.19	30.46	0.09	0.10	Average
8	0.4889010	32.60	-23.59	56.19	32.41	0.09	0.10	QP
9	12.715	42.16	-17.84	60.00	41.47	0.30	0.39	QP
10	12.715	38.05	-11.95	50.00	37.36	0.30	0.39	Average
11	23.020	31.39	-28.61	60.00	30.42	0.44	0.53	QP
12	23.020	20.92	-29.08	50.00	19.95	0.44	0.53	Average

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Neutral



			0ver	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	e r
1	0.1824860	52.06	-12.31	64.37	51.67	0.08	0.31	QP
2	@0.1824860	46.88	-7.49	54.37	46.49	0.08	0.31	Average
3	0.2447120	32.79	-19.14	51.93	32.45	0.08	0.26	Average
4	0.2447120	36.98	-24.95	61.93	36.64	0.08	0.26	QP
5	0.5506230	32.75	-23.25	56.00	32.55	0.09	0.11	QP
6	0.5506230	30.21	-15.79	46.00	30.01	0.09	0.11	Average
7	3.550	26.35	-29.65	56.00	26.00	0.14	0.21	QP
8	3.550	18.84	-27.16	46.00	18.49	0.14	0.21	Average
9	12.105	41.05	-18.95	60.00	40.38	0.29	0.38	QP
10	12.105	35.75	-14.25	50.00	35.08	0.29	0.38	Average
11	22.180	35.27	-24.73	60.00	34.31	0.44	0.52	QP
12	22.180	25.11	-24.89	50.00	24.15	0.44	0.52	Average

Note:

Level = Read Level + LISN Factor + Cable Loss.

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3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limited has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

3.2.2 Measuring Instruments and Setting

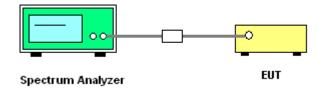
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Power Meter Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1000 kHz
VB	3000 kHz
Detector	rms
Trace	Max Hold
Sweep Time	Auto

3.2.3 Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- Test was performed in accordance with Measurement of Digital Transmission Systems Operating under Section 15.247.

3.2.4 Test Setup Layout



3.2.5 Test Deviation

There is no deviation with the original standard.

3.2.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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3.2.7 Test Result of Maximum Conducted Output Power

Final Test date	Aug. 31, 2009	Test Site No.	TH01-HY
Temperature	27	Humidity	57%
Test Engineer	Josh	Configuration	802.11b/g

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-10.37	30.00	Complies
6	2437 MHz	-11.68	30.00	Complies
11	2462 MHz	-13.70	30.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-12.19	30.00	Complies
6	2437 MHz	-11.98	30.00	Complies
11	2462 MHz	-15.85	30.00	Complies

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3.3 Power Spectral Density Measurement

3.3.1 Limit

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.

3.3.2 Measuring Instruments and Setting

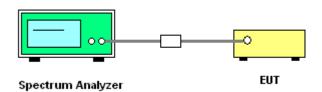
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	1.5MHz
RB	3 kHz
VB	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	500s

3.3.3 Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2. Set RBW of spectrum analyzer to 3 kHz and VBW to 30 kHz. Set Detector to Peak, Trace to Max Hold.
- 3. Mark the frequency with maximum peak power as the center of the display of the spectrum.
- 4. Set the span to 1.5MHz and the sweep time to 500s and record the maximum peak value.

3.3.4 Test Setup Layout



3.3.5 Test Deviation

There is no deviation with the original standard.

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3.3.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.3.7 Test Result of Power Spectral Density

Final Test date	Aug. 31, 2009	Test Site No.	TH01-HY
Temperature	27	Humidity	57%
Test Engineer	Josh	Configuration	802.11b/g

Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-37.16	8.00	Complies
6	2437 MHz	-38.55	8.00	Complies
11	2462 MHz	-39.89	8.00	Complies

Configuration IEEE 802.11g

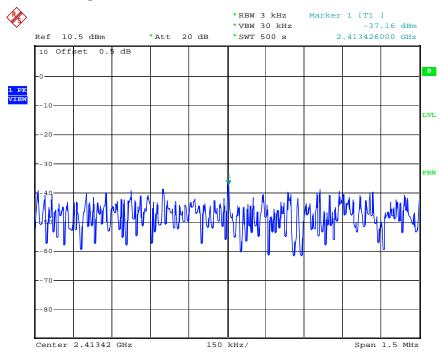
Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-42.84	8.00	Complies
6	2437 MHz	-42.00	8.00	Complies
11	2462 MHz	-46.47	8.00	Complies

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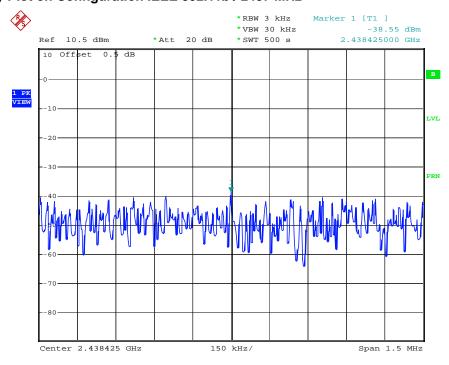
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Power Density Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 31.AUG.2009 11:04:30

Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



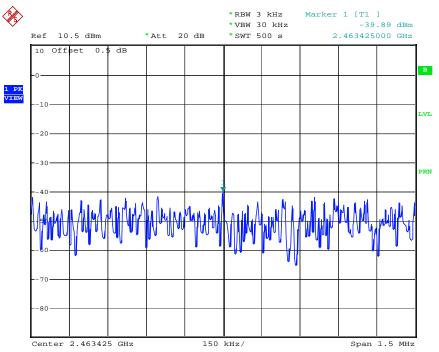
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Power Density Plot on Configuration IEEE 802.11b / 2462 MHz



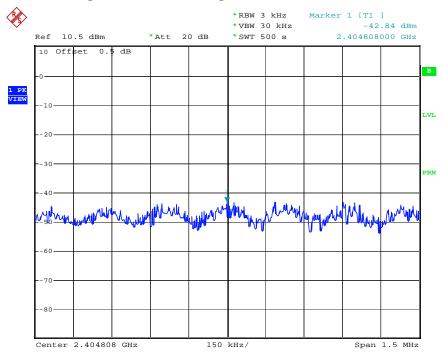
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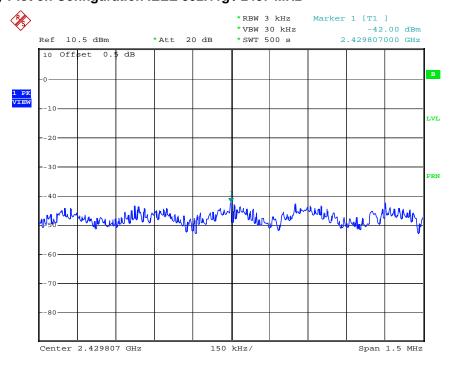
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Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 31.AUG.2009 10:31:43

Power Density Plot on Configuration IEEE 802.11g / 2437 MHz



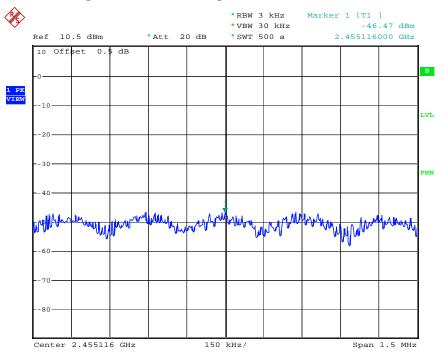
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Power Density Plot on Configuration IEEE 802.11g / 2462 MHz



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3.4 6dB Spectrum Bandwidth Measurement

3.4.1 Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

3.4.2 Measuring Instruments and Setting

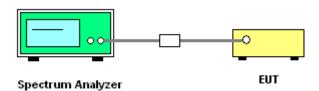
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.4.3 Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
- 2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
- 3. Measured the spectrum width with power higher than 6dB below carrier.

3.4.4 Test Setup Layout



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3.4.5 Test Deviation

There is no deviation with the original standard.

3.4.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.4.7 Test Result of 6dB Spectrum Bandwidth

Final Test date	Aug. 31, 2009	Test Site No.	TH01-HY
Temperature	27	Humidity	57%
Test Engineer	Josh	Configuration	802.11b/g

Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.56	15.32	500	Complies
6	2437 MHz	11.52	15.28	500	Complies
11	2462 MHz	11.68	15.32	500	Complies

Configuration IEEE 802.11g

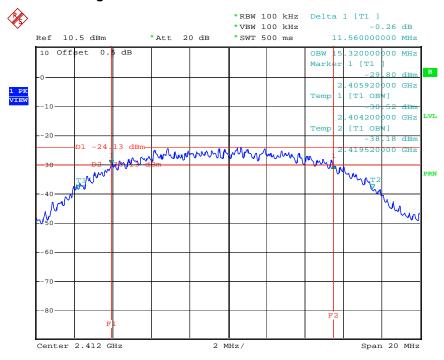
Channel	Frequency	Frequency 6dB Bandwidth (MHz) 99% Occupied Bandwidth (MHz)		Min. Limit (kHz)	Test Result
1	2412 MHz	16.48	17.56	500	Complies
6	2437 MHz	16.48	18.12	500	Complies
11	2462 MHz	16.52	16.92	500	Complies

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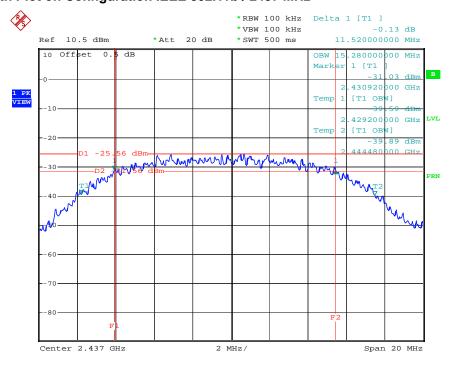
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 31.AUG.2009 11:02:56

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



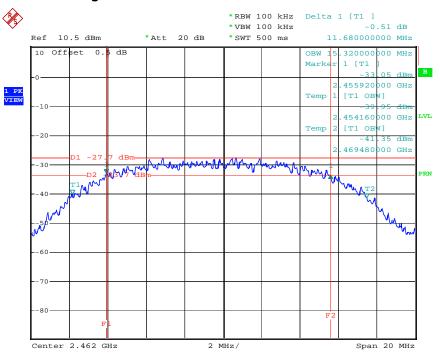
Date: 31.AUG.2009 11:00:18

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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz



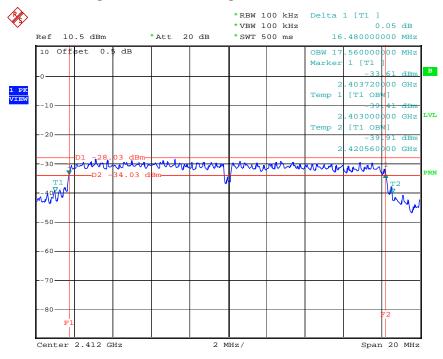
Date: 31.AUG.2009 10:58:07

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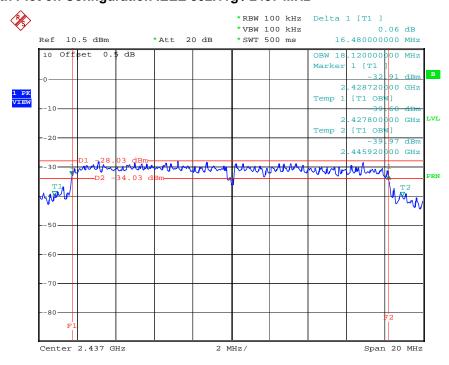
 FAX: 886-2-2696-2255
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 31.AUG.2009 10:27:41

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



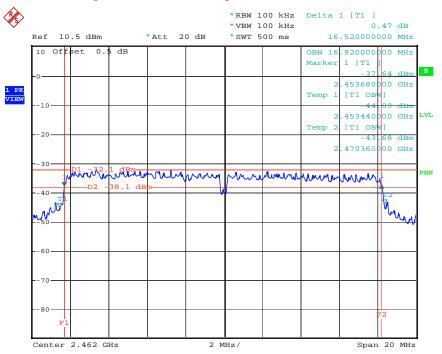
Date: 31.AUG.2009 10:20:16

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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



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3.5 Radiated Emissions Measurement

3.5.1 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

3.5.2 Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for peak

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

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3.5.3 Test Procedures

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

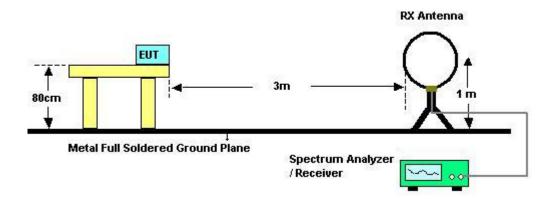
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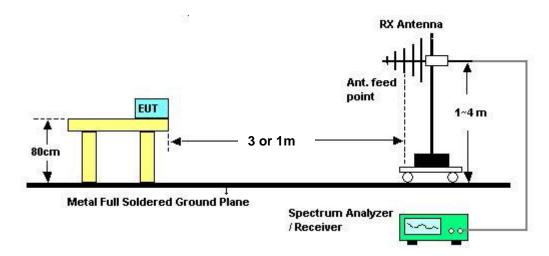
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3.5.4 Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

3.5.5 Test Deviation

There is no deviation with the original standard.

3.5.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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3.5.7 Results of Radiated Emissions (9kHz~30MHz)

Final Test date	Aug. 26, 2009	Test Site No.	03CH03-HY
Temperature	22	Humidity	62%
Test Engineer	Steven		

Freq.	Level	Over Limit	Limit Line	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

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

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

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

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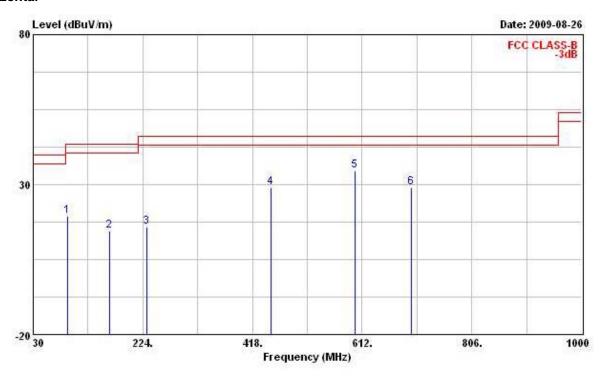
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3.5.8 Results of Radiated Emissions (30MHz~1GHz)

Final Test date	Aug. 26, 2009	Test Site No.	03CH03-HY
Temperature	22	Humidity	62%
Test Engineer	Steven	Configuration	Normal Mode

Horizontal



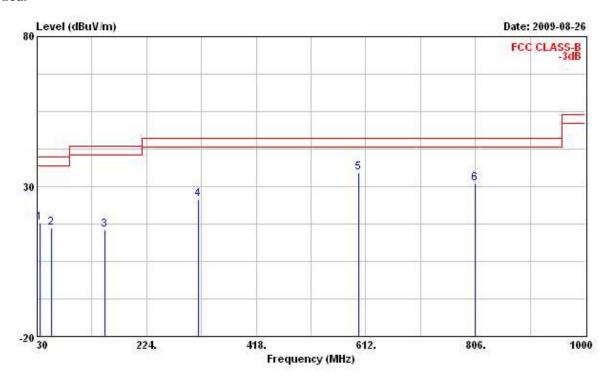
			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Ø.	cm	deg
1	90.140	19.39	-24.11	43.50	36.13	9.50	1.57	27.81	Peak		
2	164.830	14.40	-29.10	43.50	30.33	9.89	2.15	27.98	Peak		-
3	230.790	15.81	-30.19	46.00	30.94	10.48	2.61	28.21	Peak	777	-
4	450.980	28.92	-17.08	46.00	37.17	17.13	3.66	29.04	Peak		
5 @	599.390	34.71	-11.29	46.00	39.96	19.30	4.59	29.14	Peak		
6	699.300	29.11	-16.89	46.00	34.13	19.96	4.66	29.64	Peak		

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Vertical



			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	Mz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		- Cm	deg
1	35.820	17.80	-22.20	40.00	29.75	14.94	0.83	27.71	Peak	222	
2	56.190	16.28	-23.72	40.00	35.86	7.02	1.16	27.77	Peak		
3	149.310	15.38	-28.12	43.50	30.61	10.60	2.08	27.91	Peak		
4	315.180	25.58	-20.42	46.00	36.79	14.17	3.13	28.50	Peak		
5 @	599.390	34.56	-11.44	46.00	39.81	19.30	4.59	29.14	Peak		
6	805.030	31.10	-14.90	46.00	34.96	20.76	5.11	29.72	Peak		

Note:

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

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

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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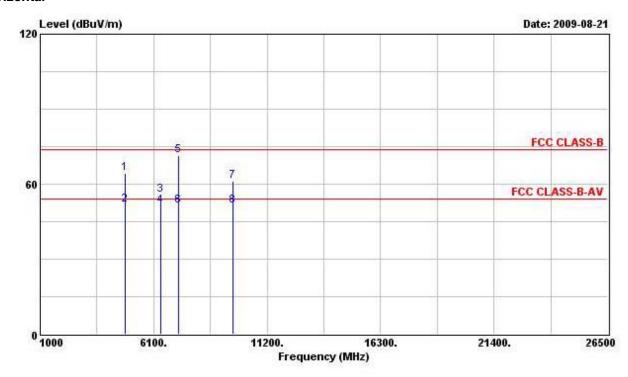
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3.5.9 Results for Radiated Emissions (1GHz~10th Harmonic)

Final Test date	Aug. 21, 2009	Test Site No.	03CH03-HY
Temperature	22	Humidity	62%
Test Engineer	Steven	Configuration	802.11b CH 1

Horizontal



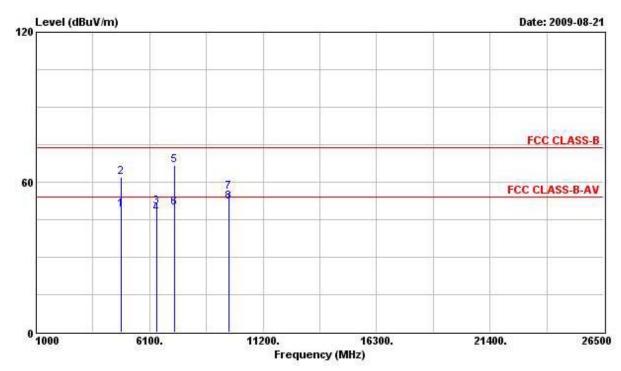
	Freq	Level			ReadAntenna Level Factor			Preamp Factor	Remark
	MHz	dBuV/m			dBuV	dB/m	dB	——dB	2
1	4826.000	64.44	-9.56	74.00	60.97	33.06	2.70	32.28	Peak
2 @	4826.000	51.82	-2.18	54.00	48.35	33.06	2.70	32.28	AVERAGE
3	6432.000	55.50	-18.50	74.00	49.07	34.19	4.15	31.91	PEAK
4 @	6432.000	51.50	-2.50	54.00	45.07	34.19	4.15	31.91	Average
5 @	7232.000	71.48	-2.52	74.00	63.82	35.78	4.55	32.67	PEAK
6 @	7232.000	51.48	-2.52	54.00	43.82	35.78	4.55	32.67	Average
7	9648.000	61.27	-12.73	74.00	49.82	38.41	5.32	32.28	PEAK
8 @	9648.000	51.27	-2.73	54.00	39.82	38.41	5.32	32.28	Average

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Vertical



	Freq	Level	Over Limit			Antenna Factor dB/m			Remark
	MKz	dBuV/m			dBuV				
1	4822.000	49.08	-4.92	54.00	45.61	33.06	2.70	32.28	AVERAGE
2	4822.000	61.92	-12.08	74.00	58.45	33.06	2.70	32.28	Peak
3	6432.000	50.26	-23.74	74.00	43.83	34.19	4.15	31.91	PEAK
4	6432.000	47.26	-6.74	54.00	40.83	34.19	4.15	31.91	Average
5	7232.000	66.85	-7.15	74.00	59.19	35.78	4.55	32.67	PEAK
6	7232.000	49.85	-4.15	54.00	42.19	35.78	4.55	32.67	Average
7	9648.000	55.96	-18.04	74.00	44.51	38.41	5.32	32.28	PEAK
8 @	9648.000	51.96	-2.04	54.00	40.51	38.41	5.32	32.28	Average

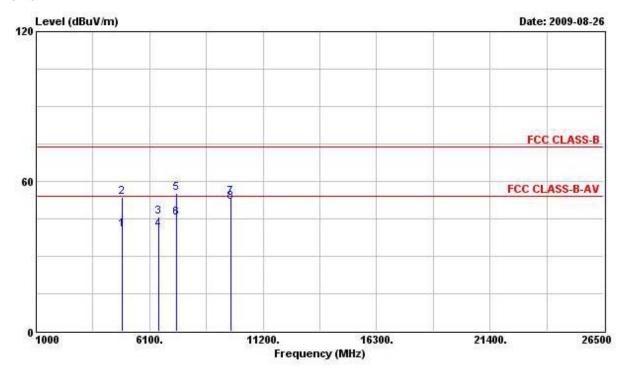
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Final Test date	Aug. 26, 2009	Test Site No.	03CH03-HY
Temperature	22	Humidity	62%
Test Engineer	Steven	Configuration	802.11b CH 6

Horizontal

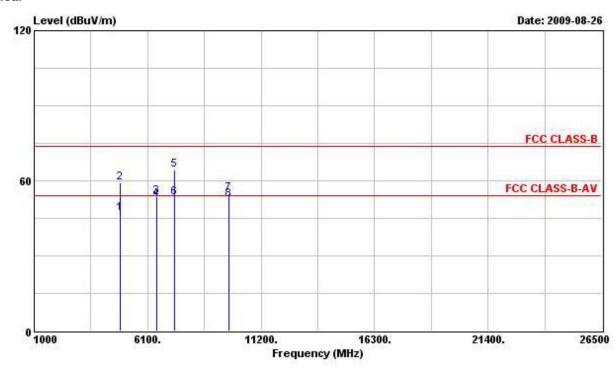


					ReadAntenna		Cable	Preamp	
	Freq	Level			Level dBuV	Tactor dB/m	Loss		Remark
	MHz	dBuV/m							
1	4874.000	40.84	-13.16	54.00	39.53	33.16	2.60	34.45	Average
2	4874.000	53.57	-20.43	74.00	52.26	33.16	2.60	34.45	Peak
3	6498.000	45.70	-28.30	74.00	41.64	34.20	4.16	34.30	Peak
4	6498.000	40.70	-13.30	54.00	36.64	34.20	4.16	34.30	Average
5	7311.000	55.40	-18.60	74.00	49.09	35.94	4.65	34.29	Peak
6	7311.000	45.56	-8.44	54.00	39.25	35.94	4.65	34.29	Average
7	9748.000	53.57	-20.43	74.00	44.12	38.62	5.42	34.58	Peak
8 @	9748.000	51.57	-2.43	54.00	42.12	38.62	5.42	34.58	Average

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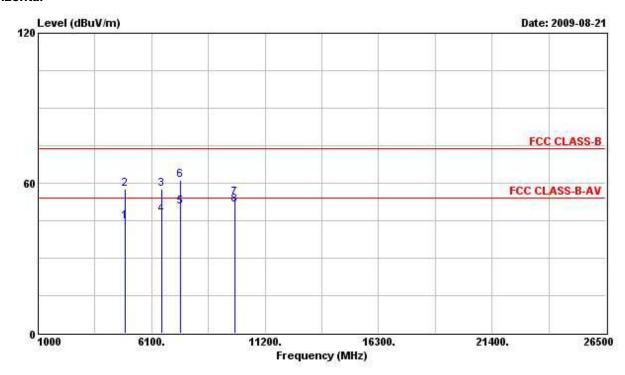
Freq	Level	1437 VALUE	1000					Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
4874.000	46.86	-7.14	54.00	45.55	33.16	2.60	34.45	Average
4874.000	59.32	-14.68	74.00	58.01	33.16	2.60	34.45	Peak
6498.000	53.57	-20.43	74.00	49.51	34.20	4.16	34.30	Peak
6498.000	52.57	-1.43	54.00	48.51	34.20	4.16	34.30	Average
7311.000	64.34	-9.66	74.00	58.03	35.94	4.65	34.29	Peak
7311.000	53.30	-0.70	54.00	46.99	35.94	4.65	34.29	Average
9748.000	54.67	-19.33	74.00	45.22	38.62	5.42	34.58	Peak
9748.000	52.67	-1.33	54.00	43.22	38.62	5.42	34.58	Average
	MHz 4874.000 4874.000 6498.000 6498.000 7311.000 9748.000	MHz dBuV/m 4874.000 46.86 4874.000 59.32 6498.000 53.57 6498.000 52.57 7311.000 64.34 7311.000 53.30 9748.000 54.67	MHz dBuV/m dB 4874.000 46.86 -7.14 4874.000 59.32 -14.68 6498.000 53.57 -20.43 6498.000 52.57 -1.43 7311.000 64.34 -9.66 7311.000 53.30 -0.70 9748.000 54.67 -19.33	Freq Level Limit Line MHz dBuV/m dB dBuV/m 4874.000 46.86 -7.14 54.00 4874.000 59.32 -14.68 74.00 6498.000 53.57 -20.43 74.00 6498.000 52.57 -1.43 54.00 7311.000 64.34 -9.66 74.00 7311.000 53.30 -0.70 54.00 9748.000 54.67 -19.33 74.00	MHz dBuV/m dB dBuV/m dB uV/m dBuV/m dBuV/m dBuV/m dBuV 4874.000 46.86 -7.14 54.00 45.55 4874.000 59.32 -14.68 74.00 58.01 6498.000 53.57 -20.43 74.00 49.51 6498.000 52.57 -1.43 54.00 48.51 7311.000 64.34 -9.66 74.00 58.03 7311.000 53.30 -0.70 54.00 46.99 9748.000 54.67 -19.33 74.00 45.22	Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 4874.000 46.86 -7.14 54.00 45.55 33.16 4874.000 59.32 -14.68 74.00 58.01 33.16 6498.000 53.57 -20.43 74.00 49.51 34.20 6498.000 52.57 -1.43 54.00 48.51 34.20 7311.000 64.34 -9.66 74.00 58.03 35.94 7311.000 53.30 -0.70 54.00 46.99 35.94 9748.000 54.67 -19.33 74.00 45.22 38.62	MHz Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 4874.000 46.86 -7.14 54.00 45.55 33.16 2.60 4874.000 59.32 -14.68 74.00 58.01 33.16 2.60 6498.000 53.57 -20.43 74.00 49.51 34.20 4.16 6498.000 52.57 -1.43 54.00 48.51 34.20 4.16 7311.000 64.34 -9.66 74.00 58.03 35.94 4.65 7311.000 53.30 -0.70 54.00 46.99 35.94 4.65 9748.000 54.67 -19.33 74.00 45.22 38.62 5.42	Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV/m dB/m dB dB 4874.000 46.86 -7.14 54.00 45.55 33.16 2.60 34.45 4874.000 59.32 -14.68 74.00 58.01 33.16 2.60 34.45 6498.000 53.57 -20.43 74.00 49.51 34.20 4.16 34.30 6498.000 52.57 -1.43 54.00 48.51 34.20 4.16 34.30 7311.000 64.34 -9.66 74.00 58.03 35.94 4.65 34.29 9748.000 54.67 -19.33 74.00 45.22 38.62 5.42 34.58

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Final Test date	Aug. 21, 2009	Test Site No.	03CH03-HY
Temperature	22	Humidity	62%
Test Engineer	Steven	Configuration	802.11b CH 11

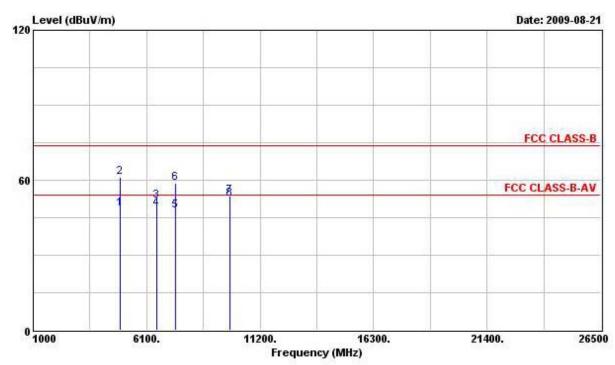


	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB)e ⁶
1	4921.920	44.44	-9.56	54.00	41.00	33.26	2.56	32.38	AVERAGE
2	4921.920	57.64	-16.36	74.00	54.20	33.26	2.56	32.38	Peak
3	6568.000	57.49	-16.51	74.00	50.98	34.34	4.18	32.00	PEAK
4 5	6568.000	47.49	-6.51	54.00	40.98	34.34	4.18	32.00	Average
5	7384.720	50.36	-3.64	54.00	41.76	36.15	4.75	32.30	AVERAGE
6 7	7384.720	61.10	-12.90	74.00	52.50	36.15	4.75	32.30	Peak
7	9848.000	54.20	-19.80	74.00	42.31	38.79	5.49	32.38	PEAK
8 @	9848.000	51.20	-2.80	54.00	39.31	38.79	5.49	32.38	Average

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 : VYTLP-7635



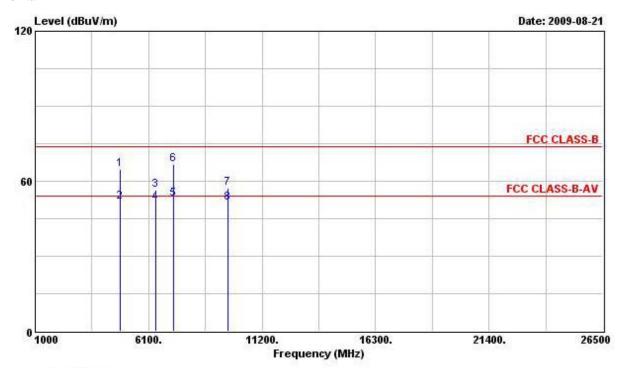
	Freq	Level	Over Limit	100 S.V. (1)		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4922.000	48.48	-5.52	54.00	45.04	33.26	2.56	32.38	AVERAGE
2 3	4922.000	61.08	-12.92	74.00	57.64	33.26	2.56	32.38	Peak
3	6568.000	51.57	-22.43	74.00	45.06	34.34	4.18	32.00	PEAK
4 5	6568.000	48.57	-5.43	54.00	42.06	34.34	4.18	32.00	Average
5	7383.800	47.67	-6.33	54.00	39.07	36.15	4.75	32.30	AVERAGE
6	7383.800	58.64	-15.36	74.00	50.04	36.15	4.75	32.30	Peak
7	9848.000	53.68	-20.32	74.00	41.79	38.79	5.49	32.38	PEAK
8 @	9848.000	52.68	-1.32	54.00	40.79	38.79	5.49	32.38	Average

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Final Test date	Aug. 21, 2009	Test Site No.	03CH03-HY
Temperature	22	Humidity	62%
Test Engineer	Steven	Configuration	802.11g CH 1

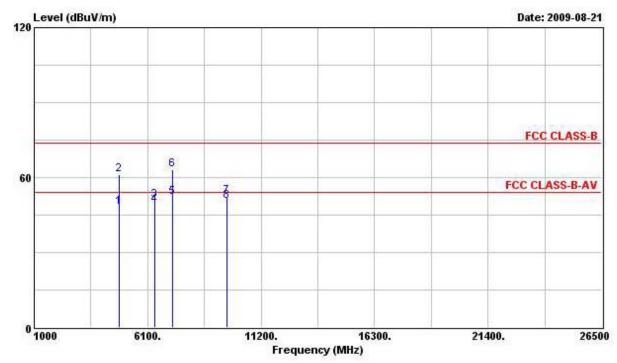


			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	дв	dB	
1	4824.000	64.74	-9.26	74.00	61.27	33.06	2.70	32.28	Peak
2 @	4824.000	51.59	-2.41	54.00	48.12	33.06	2.70	32.28	AVERAGE
3	6428.000	56.28	-17.72	74.00	49.87	34.18	4.13	31.91	PEAK
4 @	6428.000	51.28	-2.72	54.00	44.87	34.18	4.13	31.91	Average
5 @	7240.000	52.77	-1.23	54.00	45.04	35.78	4.55	32.61	Average
6	7240.000	66.77	-7.23	74.00	59.04	35.78	4.55	32.61	PEAK
7	9652.000	57.12	-16.88	74.00	45.67	38.41	5.32	32.28	PEAK
8 @	9652.000	51.12	-2.88	54.00	39.67	38.41	5.32	32.28	Average

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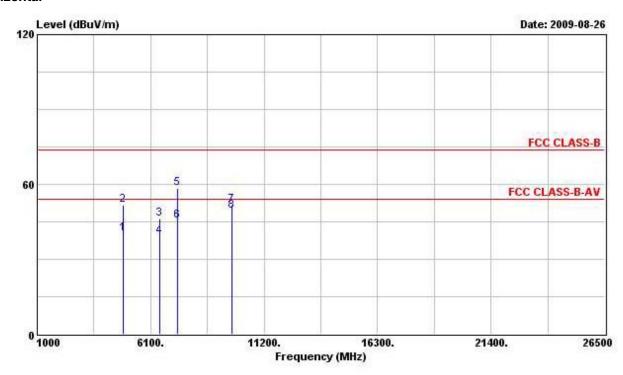
	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark
		dBuV/m	0 37012342356	dBuV/m	dBuV		dВ	dB	
1	4824.200	48.00	-6.00	54.00	44.53	33.06	2.70	32.28	AVERAGE
2 3	4824.200	61.27	-12.73	74.00	57.80	33.06	2.70	32.28	Peak
3	6428.000	50.80	-23.20	74.00	44.39	34.18	4.13	31.91	PEAK
1	6428.000	48.80	-5.20	54.00	42.39	34.18	4.13	31.91	Average
5 @	7232.000	52.15	-1.85	54.00	44.49	35.78	4.55	32.67	Average
6	7232.000	63.15	-10.85	74.00	55.49	35.78	4.55	32.67	PEAK
7	9644.000	52.42	-21.58	74.00	41.01	38.38	5.32	32.28	PEAK
8 @	9644.000	50.42	-3.58	54.00	39.01	38.38	5.32	32.28	Average

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Final Test date	Aug. 26, 2009	Test Site No.	03CH03-HY
Temperature	22	Humidity	62%
Test Engineer	Steven	Configuration	802.11g CH 6

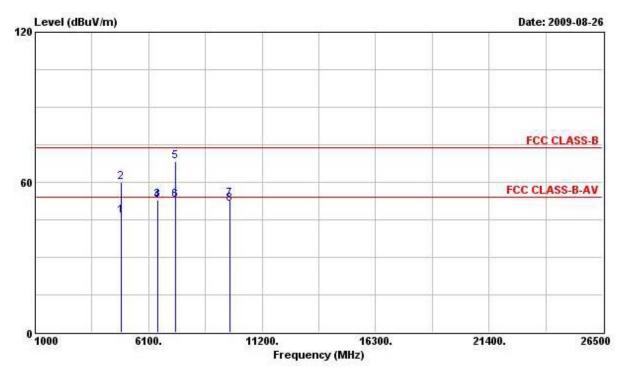


Freq	Level							
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	A T
4874.000	40.20	-13.80	54.00	38.89	33.16	2.60	34.45	Average
4874.000	51.69	-22.31	74.00	50.38	33.16	2.60	34.45	Peak
6498.000	46.09	-27.91	74.00	42.03	34.20	4.16	34.30	Peak
6498.000	39.09	-14.91	54.00	35.03	34.20	4.16	34.30	Average
7311.000	58.51	-15.49	74.00	52.20	35.94	4.65	34.29	Peak
7311.000	45.24	-8.76	54.00	38.93	35.94	4.65	34.29	Average
9748.000	51.52	-22.48	74.00	42.07	38.62	5.42	34.58	Peak
9748.000	49.52	-4.48	54.00	40.07	38.62	5.42	34.58	Average
	MHz 4874.000 4874.000 6498.000 6498.000 7311.000 7311.000	MHz dBuV/m 4874.000 40.20 4874.000 51.69 6498.000 39.09 7311.000 58.51 7311.000 45.24 9748.000 51.52	Freq Level Limit MHz dBuV/m dB 4874.000 40.20 -13.80 4874.000 51.69 -22.31 6498.000 46.09 -27.91 6498.000 39.09 -14.91 7311.000 58.51 -15.49 7311.000 45.24 -8.76 9748.000 51.52 -22.48	Freq Level Limit Line MHz dBuV/m dB dBuV/m 4874.000 40.20 -13.80 54.00 4874.000 51.69 -22.31 74.00 6498.000 46.09 -27.91 74.00 6498.000 39.09 -14.91 54.00 7311.000 58.51 -15.49 74.00 7311.000 45.24 -8.76 54.00 9748.000 51.52 -22.48 74.00	Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 4874.000 40.20 -13.80 54.00 38.89 4874.000 51.69 -22.31 74.00 50.38 6498.000 46.09 -27.91 74.00 42.03 6498.000 39.09 -14.91 54.00 35.03 7311.000 58.51 -15.49 74.00 52.20 7311.000 45.24 -8.76 54.00 38.93 9748.000 51.52 -22.48 74.00 42.07	Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m 4874.000 40.20 -13.80 54.00 38.89 33.16 4874.000 51.69 -22.31 74.00 50.38 33.16 6498.000 46.09 -27.91 74.00 42.03 34.20 6498.000 39.09 -14.91 54.00 35.03 34.20 7311.000 58.51 -15.49 74.00 52.20 35.94 7311.000 45.24 -8.76 54.00 38.93 35.94 9748.000 51.52 -22.48 74.00 42.07 38.62	Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 4874.000 40.20 -13.80 54.00 38.89 33.16 2.60 4874.000 51.69 -22.31 74.00 50.38 33.16 2.60 6498.000 46.09 -27.91 74.00 42.03 34.20 4.16 6498.000 39.09 -14.91 54.00 35.03 34.20 4.16 7311.000 58.51 -15.49 74.00 52.20 35.94 4.65 7311.000 45.24 -8.76 54.00 38.93 35.94 4.65 9748.000 51.52 -22.48 74.00 42.07 38.62 5.42	Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 4874.000 40.20 -13.80 54.00 38.89 33.16 2.60 34.45 4874.000 51.69 -22.31 74.00 50.38 33.16 2.60 34.45 6498.000 46.09 -27.91 74.00 42.03 34.20 4.16 34.30 6498.000 39.09 -14.91 54.00 35.03 34.20 4.16 34.30 7311.000 58.51 -15.49 74.00 52.20 35.94 4.65 34.29 7311.000 45.24 -8.76 54.00 38.93 35.94 4.65 34.29 9748.000 51.52 -22.48 74.00 42.07 38.62 5.42 34.58

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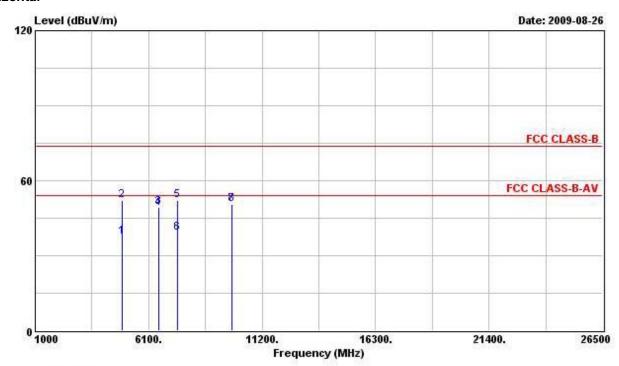
	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	Ø.
1	4874.000	46.55	-7.45	54.00	45.24	33.16	2.60	34.45	Average
2	4874.000	59.83	-14.17	74.00	58.52	33.16	2.60	34.45	Peak
3	6498.000	52.73	-21.27	74.00	48.67	34.20	4.16	34.30	Peak
4 @	6498.000	52.63	-1.37	54.00	48.57	34.20	4.16	34.30	Average
5	7311.000	68.45	-5.55	74.00	62.14	35.94	4.65	34.29	Peak
6 @	7311.000	52.99	-1.01	54.00	46.68	35.94	4.65	34.29	Average
7	9748.000	53.22	-20.78	74.00	43.77	38.62	5.42	34.58	Peak
8 @	9748.000	51.22	-2.78	54.00	41.77	38.62	5.42	34.58	Average

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Final Test date	Aug. 26, 2009	Test Site No.	03CH03-HY
Temperature	22	Humidity	62%
Test Engineer	Steven	Configuration	802.11g CH 11

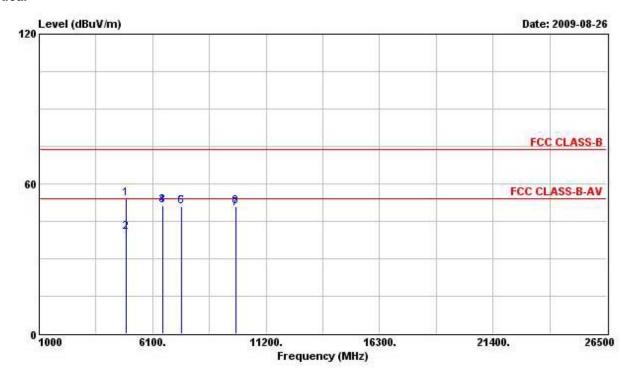


	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1
1	4924.000	37.62	-16.38	54.00	36.18	33.26	2.56	34.38	Average
2	4924.000	52.14	-21.86	74.00	50.70	33.26	2.56	34.38	Peak
3	6565.000	49.17	-24.83	74.00	44.98	34.30	4.18	34.29	Peak
4	6565.000	49.07	-4.93	54.00	44.88	34.30	4.18	34.29	Average
5	7386.000	52.22	-21.78	74.00	45.61	36.15	4.75	34.29	Peak
6	7386.000	38.96	-15.04	54.00	32.35	36.15	4.75	34.29	Average
7	9848.000	50.68	-23.32	74.00	40.94	38.79	5.49	34.54	Peak
8 @	9848.000	50.58	-3.42	54.00	40.84	38.79	5.49	34.54	Average

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			Over	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	(t
1	4924.000	54.11	-19.89	74.00	52.67	33.26	2.56	34.38	Peak
2 3	4924.000	40.50	-13.50	54.00	39.06	33.26	2.56	34.38	Average
3	6565.000	51.50	-22.50	74.00	47.31	34.30	4.18	34.29	Peak
4 @	6565.000	51.40	-2.60	54.00	47.21	34.30	4.18	34.29	Average
5	7386.000	50.97	-23.03	74.00	44.36	36.15	4.75	34.29	Peak
6 @	7386.000	50.87	-3.13	54.00	44.26	36.15	4.75	34.29	Average
7	9848.000	50.08	-3.92	54.00	40.34	38.79	5.49	34.54	Average
8	9848.000	51.08	-22.92	74.00	41.34	38.79	5.49	34.54	Peak

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

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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FCC TEST REPORT Report No.: FR973022AC

3.6 Band Edge and Fundamental Emissions Measurement

3.6.1 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

3.6.2 Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 KHz /100 KHz for Peak

3.6.3 Test Procedures

- 1. The test procedure is the same as section 3.5.3; only the frequency range investigated is limited to 100MHz around band edges.
- 2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

3.6.4 Test Setup Layout

This test setup layout is the same as that shown in section 3.5.4.

3.6.5 Test Deviation

There is no deviation with the original standard.

3.6.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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3.6.7 Test Result of Band Edge and Fundamental Emissions

Final Test date	Aug. 21, 2009	Test Site No.	03CH03-HY
Temperature	22	Humidity	62%
Test Engineer	Steven	Configuration	802.11b CH 1, 6, 11

Channel 1

				Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
		Freq	Level	Limit	Line	Line Level Fa				Remark	Pos	Pos
		MKz	dBuV/m	dB	dBuV/m							deg
1		2385.620	56.64	-17.36	74.00	25.76	28.29	2.58	0.00	Peak		
2	0	2410.890	77.94			47.03	28.33	2.58	0.00	Peak		
1	. 6	2387.330	43.91	-10.09	54.00	13.03	28.29	2.58	0.00	Average		
2	0	2411.460	69.49			38.58	28.33	2.58	0.00	Average		

An item 2 is Fundamental Emissions.

Channel 6

				Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
		Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
		MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB/m dB	dB		cm	deg
1	, in	2438.060	75.98			44.98	28.40	2.61	0.00	Peak	-	
1	. 0	2436.540	67.21			36.21	28.40	2.61	0.00	Average		

An item 1 is Fundamental Emissions.

Channel 11

			Freq	Level	Over Limit	500000000000000000000000000000000000000		Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos
		SE.	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		CIN.	deg
1	9	246	3.140	76.47			45.41	28.43	2.63	0.00	Peak		
2		248	7.650	56.67	-17.33	74.00	25.54	28.50	2.63	0.00	Peak		
1	0	246	1.620	67.97			36.91	28.43	2.63	0.00	Average		
2	0	248	6.890	44.18	-9.82	54.00	13.09	28.47	2.63	0.00	Average		

An item 1 is Fundamental Emissions.

Note:

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

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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Final Test date	Aug. 21, 2009	Test Site No.	03CH03-HY
Temperature	22	Humidity	62%
Test Engineer	Steven	Configuration	802.11g CH 1, 6, 11

Channel 1

			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	2388.850	59.62	-14.38	74.00	28.74	28.29	2.58	0.00	Peak		-
2 @	2406.330	76.13			45.22	28.33	2.58	0.00	Peak		
10	2390.000	45.94	-8.06	54.00	15.06	28.29	2.58	0.00	Average		
2 @	2404.810	65.26	3	6	34.35	28.33	2.58	0.00	Average		

An item 2 is Fundamental Emissions.

Channel 6

			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	Mz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 0	2440.340	75.47			44.47	28.40	2.61	0.00	Peak		1222
1 0	2439.770	64.29			33.29	28.40	2.61	0.00	Average		

An item 1 is Fundamental Emissions.

Channel 11

				Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
		Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	ē 2	Cm.	deg
	0	2460.290	74.01			42.95	28.43	2.63	0.00	Peak		
2		2487.650	57.36	-16.64	74.00	26.23	28.50	2.63	0.00	Peak		
1	9	2458.580	63.34			32.28	28.43	2.63	0.00	Average		
2	0	2483.500	44.45	-9.55	54.00	13.36	28.47	2.63	0.00	Average		0.00

An item 1 is Fundamental Emissions.

Note:

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

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

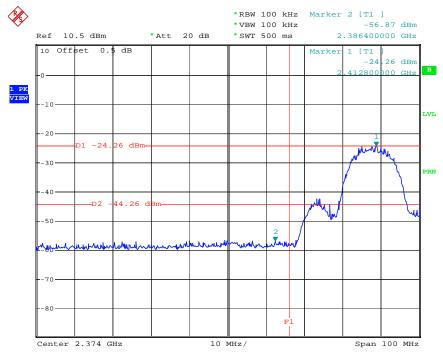
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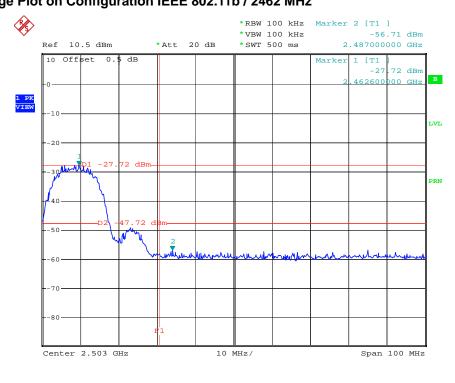
For Emission not in Restricted Band

Date:

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



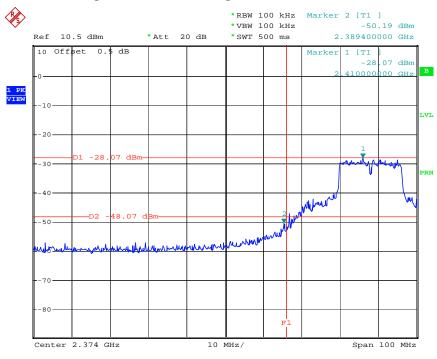
31.AUG.2009 10:54:25 High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



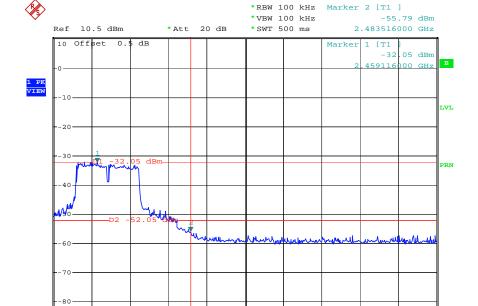
Date: 31.AUG.2009 10:56:06

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Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 31.AUG.2009 10:52:40 High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



Span 100 MHz

Date: 31.AUG.2009 10:40:31

Center 2.497716 GHz

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3.7 Antenna Requirements

3.7.1 Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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 the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

3.7.2 Antenna Connector Construction

Please refer to section 2.2 in this test report; antenna connector complied with the requirements.

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4 LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Apr. 15, 2009	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 23, 2009	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2009	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX 3102-26886-4		CB049	9kHz – 30MHz	Apr. 20, 2009	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSU26.5	100015	20Hz ~ 26.5GHz	Oct. 28, 2008	Conducted
.,						(TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jul. 31, 2009	Conducted
rowel weter	Nas					(TH01-HY)
	500	NRV-Z51	100666	DC ~ 30GHz	Aug. 05, 2009	Conducted
Power Sensor	R&S					(TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jul. 31, 2009	Conducted
						(TH01-HY)
DC Dawes Causes	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 13, 2009	Conducted
DC Power Source						(TH01-HY)
Temp. and Humidity	Oisset Farra	OTH 005 00 0	NAA DOAGO 004	N1/A	A 00 0000	Conducted
Chamber	Giant Force	GTH-225-20-S	MAB0103-001	N/A	Aug. 06, 2009	(TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 01, 2008	Conducted
						(TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2008	Conducted
						(TH01-HY)
Circal Consents	500	SMR40	100116	10MHz ~ 40GHz	Mar. 25, 2009	Conducted
Signal Generator	R&S					(TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	Jul. 12, 2009*	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is two year.

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 07, 2009	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 23, 2009	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jul. 21, 2009	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP30	100305	9 kHz - 40 GHz	Feb. 03, 2009	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 18, 2009	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	Apr. 28, 2009	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan.16, 2009	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Jan. 05, 2009	Radiation (03CH03-HY)
RF Cable-HIGH	F Cable-HIGH SUHNER		03CH03-HY	1 GHz - 40 GHz	Jan. 05, 2009	Radiation (03CH03-HY)
Turn Table	HD DS 420 420/650/00 0 – 360 degree		N/A	Radiation (03CH03-HY)		
Antenna Mast	HD	MA 240	240/560/00 1 m - 4 m N/A		Radiation (03CH03-HY)	

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	Jul. 28, 2008*	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Apr. 06, 2009*	Radiation (03CH03-HY)

Note: Calibration Interval of instruments listed above is two year.

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5 TEST LOCATION

SHIJR	ADD	:	6FI., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085

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6 TAF CERTIFICATE OF ACCREDITATION



Certificate No.: 1.1190-090318

財團法人全國認證基金會 Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.

EMC & Wireless Communications Laboratory

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2005

Accreditation Number : 1190

Originally Accredited : December 15, 2003

Effective Period : January 10, 2007 to January 09, 2010

Accredited Scope : Testing Field, see described in the Appendix

Specific Accreditation : Accreditation Program for Designated Testing Laboratory

Program for Commodities Inspection

Accreditation Program for Telecommunication Equipment

Testing Laboratory

Accreditation Program for BSMI Mutual Recognition

Arrangment with Foreign Authorities

Jay-San Chen

President, Taiwan Accreditation Foundation

- San Chen

Date: March 18, 2009

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix

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