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FCC RADIO TEST REPORT

Applicant's company	Wistron NeWeb Corporation
Applicant Address	No. 10-1, Li-hsin Road I, Science-baded Industrial Park, Hsinchu 300,
	Taiwan, R.O.C.
FCC ID	NKRUWASL2
Manufacturer's company 1	Wistron NeWeb Corporation
Manufacturer Address	No. 10-1, Li-hsin Road I, Science-baded Industrial Park, Hsinchu 300, Taiwan, R.O.C.
Manufacturer's company 2	WNC(Kunshan) Corporation
Manufacturer Address	No.88,Central Avenue, Area B, Kunshan Export Processing Zone, Kunshan City, Jiangsu, China.

Product Name	Stiletto 2
Brand Name	Sirius
Model Name	SL2, SL2R, SL2B, SL2C, UWA-SL2, SL2PK1,
	SL2PK1R, SL2PK1B, SL2PK1C, SL2TK1C
Test Rule	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz
Received Date	Aug. 14, 2007
Final Test Date	Aug. 20, 2007
Submission Type	Original Equipment
Multiple Listing	Please refer to section 3.7



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.





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History of This Test Report

Original Issue Date: Aug. 24, 2007

Report No.: FR782102

No additional attachment.

Additional attachment were issued as following record:

Attachment No.	Issue Date	Description



Certificate No.: CB9608058

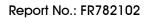
1. CERTIFICATE OF COMPLIANCE

Product Name	:	Stiletto 2
Brand Name	:	Sirius
Model Name	:	SL2, SL2R, SL2B, SL2C, UWA-SL2, SL2PK1, SL2PK1R, SL2PK1B, SL2PK1C,
		SL2TK1C
Applicant	:	Wistron NeWeb Corporation
Test Rule Part(s)	:	47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Aug. 14, 2007 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.

Wayne Hsu

SPORTON INTERNATIONAL INC.





2. SUMMARY OF THE TEST RESULT

	Applied Standard: 47 CFR FCC Part 15 Subpart C							
Part	Rule Section	Result	Under Limit					
4.1	15.207	AC Power Line Conducted Emissions	Complies	8.54 dB				
4.2	2 15.247(b)(3) Maximum Peak Conducted Output Power		Complies	14.96 dB				
4.3	15.247(e)	Power Spectral Density	Complies	24.35 dB				
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-				
4.5	4.5 15.247(d) Radiated Emissions		Complies	2.44 dB				
4.6	15.247(d)	Band Edge Emissions	Complies	5.86 dB				
4.7	15.203	Antenna Requirements		-				

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 °C	Confidence levels of 95%
Humidity	±3.2%	Confidence levels of 95%
DC / AC Power Source	±1.4%	Confidence levels of 95%



3. GENERAL INFORMATION

3.1. Product Details

Items	Description
Power Type	Power Adapter & Li-ion Battery
Modulation	DSSS for IEEE 802.11b ; OFDM for IEEE 802.11g
Data Modulation	DSSS (BPSK / QPSK / 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	11
Channel Band Width (99%)	11b: 13.80 MHz ; 11g: 16.52 MHz
Conducted Output Power	11b: 12.80 dBm ; 11g: 15.04 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

3.2. Accessories

Power	Brand	Model	Rating			
Adapter 1	DVE	DSA-15P-05 US 050125	Input: 100-240VAC, 50/60Hz, 0.5A			
			Output: +5V, 2.5A			
Adapter 2	DVE	DSA-15P-05 US 052130	Input: 100-240V, 50/60Hz, 0.5A			
			Output: +5.2V, 2.5A			
Adapter 2	OEM	AD\$0123-W 052250	Input: 100-240V, 50-60Hz, 0.35A			
			Output: 5.2V, 2.5A			
Li-ion Battery	ATL	584177	Rating: 3.7V, 1615mAh			
	Others					
Antenna Headphones, Ear Buds, USB Cable						

3.3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Function
1	ANTENOVA	3030A5645-01	PIFA Antenna	UFL	1.2	TX/RX

Ant. 2: Antenna Headphones (for Satellite receiver) for Test mode 1

Note: The two receiving antennas are only one will be used at the same time.



3.4. Table for Carrier Frequencies

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
2400~2463.5IVIH2	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz		

3.5. 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 all the possible configurations 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	Antenna
AC Power Line Conducted Emissions	Normal Link (Mode 1)	11 Mbps	6	1
Maximum Peak Conducted Output Power	11b/BPSK	1 Mbps	1/6/11	N/A
Power Spectral Density	11g/BPSK	6 Mbps	1/6/11	N/A
6dB Spectrum Bandwidth				
Radiated Emissions 9kHz~1GHz	Normal Link (Mode 11)	6 Mbps	6	1
Radiated Emissions 1GHz~10 th Harmonic	11b/BPSK (Mode 3)	1 Mbps	1/6/11	1
	11g/BPSK (Mode 3)	6 Mbps	1/6/11	1
Band Edge Emissions	11b/BPSK (Mode 3)	1 Mbps	1/11	1
	11g/BPSK (Mode 3)	6 Mbps	1/11	1

Test Mode

For conduction

Mode 1: EUT, Ear Buds and Power Adapter 1 – Play music

Mode 2: EUT, Ear Buds and Power Adapter 2 - Play music

Mode 3: EUT, Ear Buds and Power Adapter 3 - Play music

Mode 4: EUT, Ear Buds and Power Adapter 1 - Satellite radio

Mode 5: EUT, Ear Buds and Power Adapter 2 - Satellite radio

Mode 6: EUT, Ear Buds and Power Adapter 3 – Satellite radio

Mode 7: EUT, Ear Buds and Power Adapter 1 - Internet Radio

Mode 8: EUT, Ear Buds and Power Adapter 2 - Internet Radio

Mode 9: EUT, Ear Buds and Power Adapter 3 - Internet Radio

Due to Mode 1 generated the worst test result, so it was recorded in this report.



For Radiation (30MHz~1GHz) Mode 1: EUT, Antenna Headphones - Satellite radio Mode 2: EUT, Ear Buds and Power Adapter 1 - Play music Mode 3: EUT, Ear Buds and Power Adapter 2 - Play music Mode 4: EUT, Ear Buds and Power Adapter 3 - Play music Mode 5: EUT, Ear Buds and Power Adapter 1 - Satellite radio Mode 6: EUT, Ear Buds and Power Adapter 2 - Satellite radio Mode 7: EUT, Ear Buds and Power Adapter 3 - Satellite radio Mode 8: EUT, Ear Buds and Power Adapter 1 - Internet Radio Mode 9: EUT, Ear Buds and Power Adapter 2 - Internet Radio Mode 10: EUT, Ear Buds and Power Adapter 3 – Internet Radio Mode 11: EUT with Ear Buds - From PC download data and play music via USB Cable Due to Mode 11 generated the worst test result, so it was recorded in this report. For Radiated emission (above 1GHz) and Band-edge Mode 1: X-axis Mode 2: Y-axis Mode 3: Z-axis Due to Mode 3 generated the worst test result, so it was recorded in this report.

3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH03-HY	SAC	Hwa Ya	101377	IC 4088	-
CO04-HY	Conduction	Hwa Ya	101377	IC 4088	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC). Please refer section 6 for Test Site Address.

3.7. Table for Multiple Listing

Model Name: SL2, SL2R, SL2B, SL2C, UWA-SL2, SL2PK1, SL2PK1R, SL2PK1B, SL2PK1C, SL2TK1C All the models are identical, the difference model for difference brand served as marketing strategy.

3.8. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	D400	E2K24GBRL
Printer	EPSON	LQ-300+	N/A
Modem	ACEEX	DM1414	IFAXDM1414



3.9. 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	HyperTerminal					
Frequency	2412 MHz	2437 MHz	2462 MHz			
IEEE 802.11b	12	12	12			
IEEE 802.11g	12	12	12			

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

The program was executed as follows:

a. Turn on the power of all equipment.

b. The NB sends "H" messages to the panel, and the panel displays "H" patterns on the screen.

c. The NB sends "H " messages to the printer, then the printer prints them on the paper.

d. The NB sends " H " messages to the modem.

e. Repeat the steps from b to d.

At the same time, the following programs were executed:

Executed "HyperTerminal " to control the EUT continuously transmit RF signal.

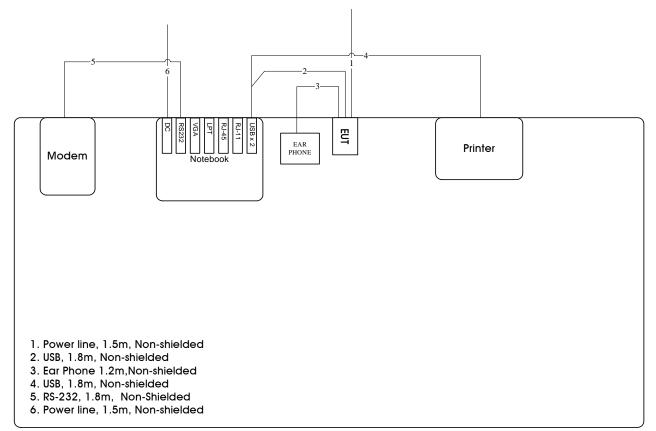
Executed " Media player " to play audio.



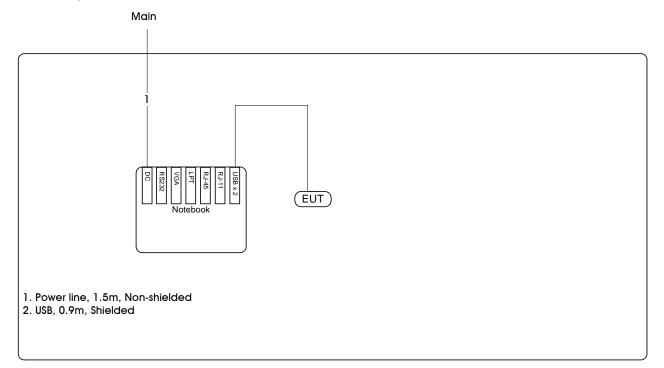
3.10.Test Configurations

3.10.1. Radiation Emissions Test Configuration

Test Configuration: 9kHz~30MHz (Mode 11)



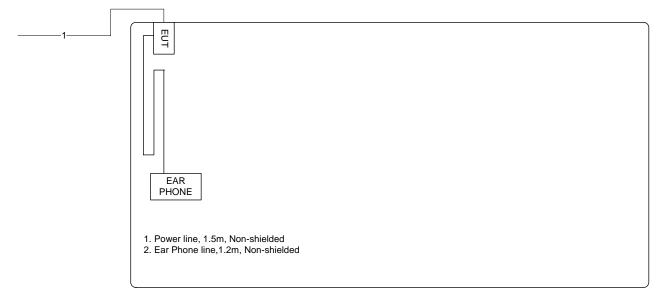
Test Configuration: Above 1GHz (Mode 3)





3.10.2. AC Power Line Conduction Emissions Test Configuration

Mode 1







4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. 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.

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

4.1.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

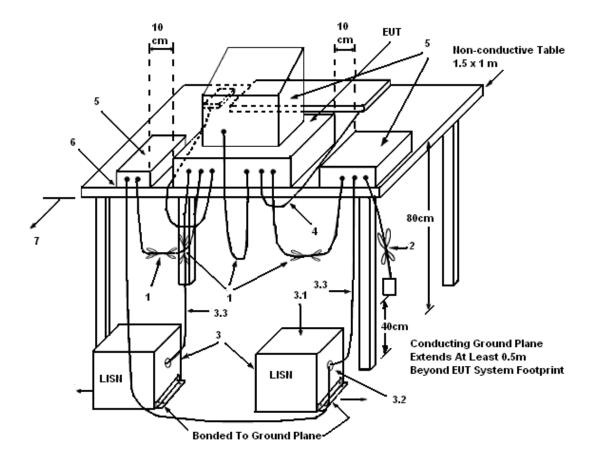
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.3. 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.



4.1.4. 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.



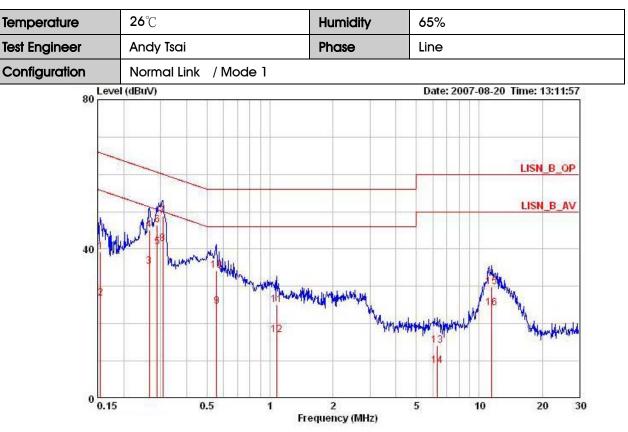
4.1.5. Test Deviation

There is no deviation with the original standard.

4.1.6. EUT Operation during Test

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

4.1.7. Results of AC Power Line Conducted Emissions Measurement

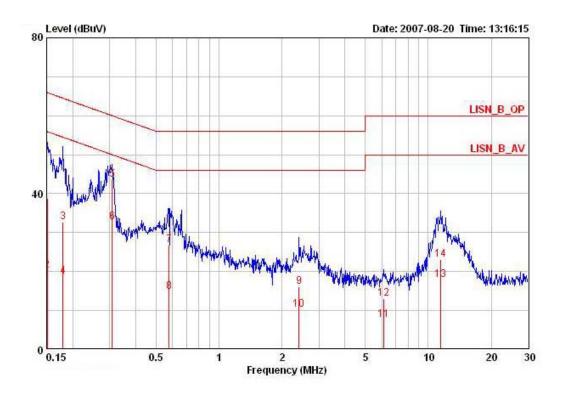


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBu¥	dB	dBuV	dBuV	dB	dB		
1	0.15485	39.26	-26.48	65.74	38.86	0.20	0.20	QP	LINE
2	0.15485	26.74	-29.00	55.74	26.34	0.20	0.20	AVERAGE	LINE
3	0.26442	35.39	-15.90	51.29	35.09	0.10	0.20	AVERAGE	LINE
4	0.26442	45.23	-16.06	61.29	44.93	0.10	0.20	QP	LINE
5	0.28935	40.45	-10.09	50.54	40.15	0.10	0.20	AVERAGE	LINE
6	0.28935	46.48	-14.06	60.54	46.18	0.10	0.20	QP	LINE
7	0.30671	48.72	-11.34	60.06	48.42	0.10	0.20	QP	LINE
8 @	0.30671	41.52	-8.54	50.06	41.22	0.10	0.20	AVERAGE	LINE
9	0.55520	24.65	-21.35	46.00	24.38	0.07	0.20	AVERAGE	LINE
LO	0.55520	34.15	-21.85	56.00	33.88	0.07	0.20	QP	LINE
11	1.077	25.04	-30.96	56.00	24.86	0.00	0.18	QP	LINE
12	1.077	16.97	-29.03	46.00	16.79	0.00	0.18	AVERAGE	LINE
13	6.285	14.16	-45.84	60.00	13.76	0.04	0.36	QP	LINE
14	6.285	8.69	-41.31	50.00	8.29	0.04	0.36	AVERAGE	LINE
15	11.498	29.94	-30.06	60.00	29.44	0.10	0.40	QP	LINE
16	11.498	24.29	-25.71	50.00	23.79	0.10	0.40	AVERAGE	LINE

Report Format Version: 01



Temperature	26 ℃	Humidity	65%
Test Engineer	Andy Tsai	Phase	Neutral
Configuration	Normal Link / Mode 1		



Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
MHz	dBuV	dB	dBuV	dBuV	dB	dB	÷	328
0.15080	38.91	-27.05	65.96	38.41	0.30	0.20	QP	NEUTRAL
0.15080	20.32	-35.64	55.96	19.82	0.30	0.20	AVERAGE	NEUTRAL
0.17961	32.69	-31.81	64.50	32.24	0.25	0.20	QP	NEUTRAL
0.17961	18.79	-35.71	54.50	18.34	0.25	0.20	AVERAGE	NEUTRAL
0.30834	43.49	-16.53	60.02	43.14	0.15	0.20	QP	NEUTRAL
0.30834	32.71	-17.31	50.02	32.36	0.15	0.20	AVERAGE	NEUTRAL
0.57617	26.81	-29.19	56.00	26.51	0.10	0.20	QP	NEUTRAL
0.57617	14.79	-31.21	46.00	14.49	0.10	0.20	AVERAGE	NEUTRAL
2.409	16.04	-39.96	56.00	15.74	0.10	0.20	QP	NEUTRAL
2.409	10.18	-35.82	46.00	9.88	0.10	0.20	AVERAGE	NEUTRAL
6.121	7.66	-42.34	50.00	7.23	0.10	0.33	AVERAGE	NEUTRAL
6.121	13.16	-46.84	60.00	12.73	0.10	0.33	QP	NEUTRAL
11.498	17.93	-32.07	50.00	17.43	0.10	0.40	AVERAGE	NEUTRAL
11.498	23.21	-36.79	60.00	22.71	0.10	0.40	QP	NEUTRAL

Note:

Level = Read Level + LISN Factor + Cable Loss.



4.2. Maximum Peak Output Power Measurement

4.2.1. 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.

4.2.2. Measuring Instruments and Setting

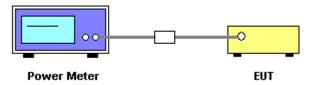
Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Filter No.	Auto
Measurement time	0.135 s ~ 26 s
Used Peak Sensor	NRV-Z32 (model 04)

4.2.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the power meter.
- 2. Turn on the EUT and power meter and then record the peak power value.
- 3. Repeat above procedures on all channels needed to be tested.

4.2.4. Test Setup Layout



4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



4.2.7. Test Result of Maximum Peak Output Power

Temperature	23 ℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11b/g

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	12.80	30.00	Complies
6	2437 MHz	12.41	30.00	Complies
11	2462 MHz	12.47	30.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.04	30.00	Complies
6	2437 MHz	14.44	30.00	Complies
11	2462 MHz	14.64	30.00	Complies



4.3. Power Spectral Density Measurement

4.3.1. 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.

4.3.2. Measuring Instruments and Setting

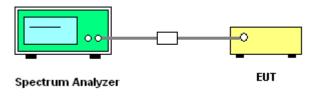
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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

4.3.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser.
- 2. Set RBW of spectrum analyzer to 3kHz and VBW to 30kHz. 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.

4.3.4. Test Setup Layout



4.3.5. Test Deviation

There is no deviation with the original standard.



4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.3.7. Test Result of Power Spectral Density

Temperature	23 ℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11b/g

Configuration IEEE 802.11b

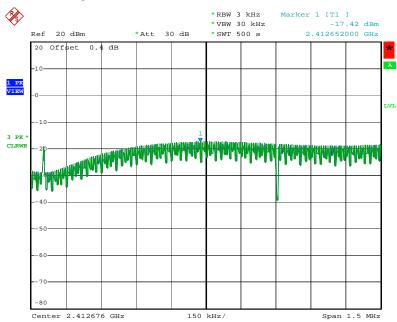
Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-17.42	8.00	Complies
6	2437 MHz	-17.29	8.00	Complies
11	2462 MHz	-17.76	8.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-17.86	8.00	Complies
6	2437 MHz	-16.83	8.00	Complies
11	2462 MHz	-16.35	8.00	Complies



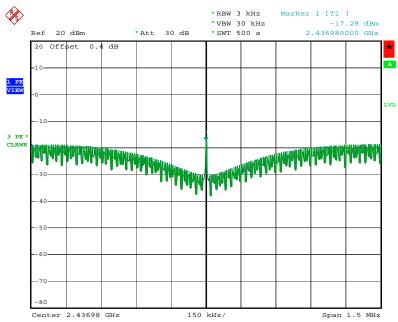




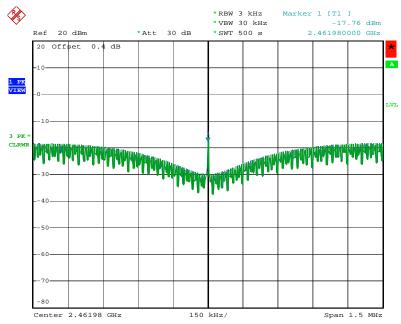
Power Density Plot on Configuration IEEE 802.11b / 2412 MHz

Date: 16.AUG.2007 15:22:57

Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



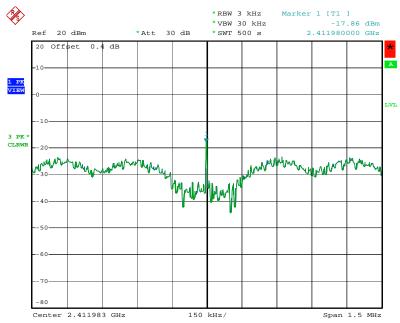




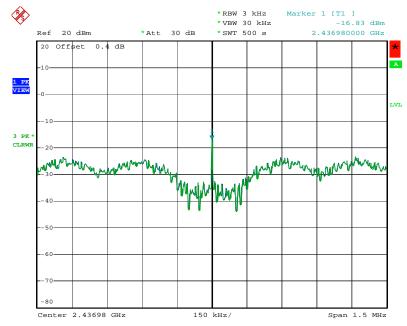
Power Density Plot on Configuration IEEE 802.11b / 2462 MHz

Date: 16.AUG.2007 15:15:22

Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



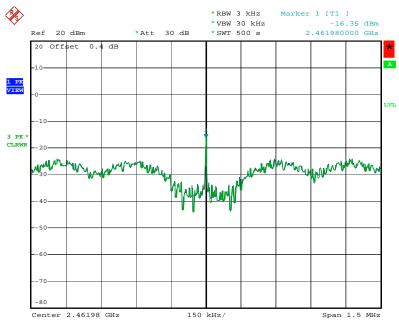




Power Density Plot on Configuration IEEE 802.11g / 2437 MHz

Date: 16.AUG.2007 15:19:50

Power Density Plot on Configuration IEEE 802.11g / 2462 MHz





4.4. 6dB Spectrum Bandwidth Measurement

4.4.1. Limit

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

4.4.2. Measuring Instruments and Setting

Please refer to section 5 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	

4.4.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser 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.

4.4.4. Test Setup Layout



Spectrum Analyzer





4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Test Result of 6dB Spectrum Bandwidth

Temperature	23 ℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11b/g

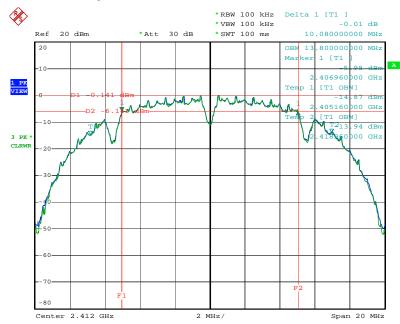
Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	10.08	13.80	500	Complies
6	2437 MHz	10.08	13.76	500	Complies
11	2462 MHz	10.08	13.76	500	Complies

Configuration IEEE 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.56	16.48	500	Complies
6	2437 MHz	16.60	16.52	500	Complies
11	2462 MHz	16.56	16.52	500	Complies

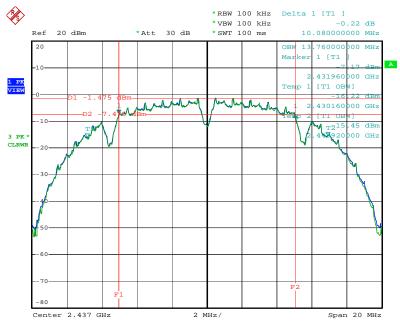




6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz

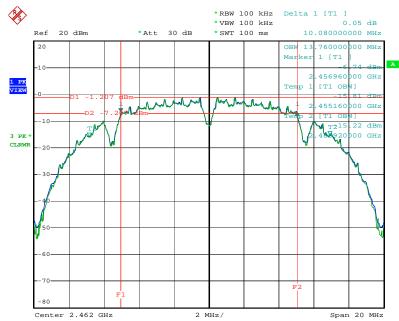
Date: 16.AUG.2007 15:22:32

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



Date: 16.AUG.2007 15:14:00

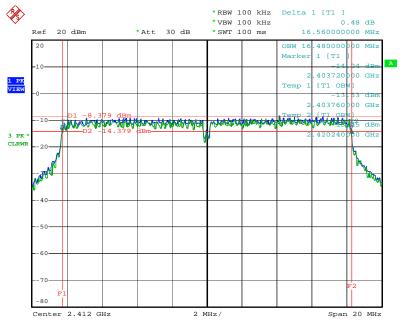




6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz

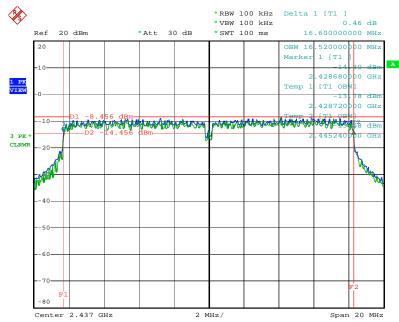
Date: 16.AUG.2007 15:15:07

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



Date: 16.AUG.2007 15:59:23

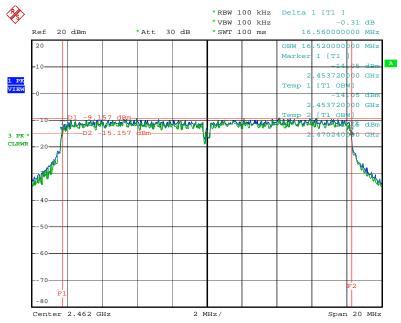




6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz

Date: 16.AUG.2007 15:19:33

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



Date: 16.AUG.2007 15:20:27



4.5. Radiated Emissions Measurement

4.5.1. 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

4.5.2. Measuring Instruments and Setting

Please refer to section 5 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)	100KHz / 100KHz for peak

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



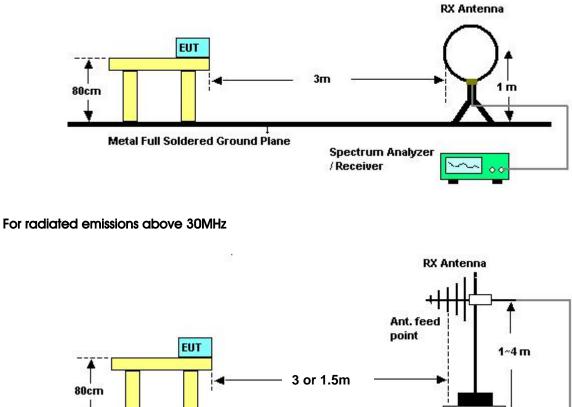
4.5.3. Test Procedures

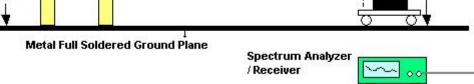
- Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting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



4.5.4. Test Setup Layout

For radiated emissions below 30MHz





Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



4.5.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	23 ℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Normal Link / Mode 11

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);

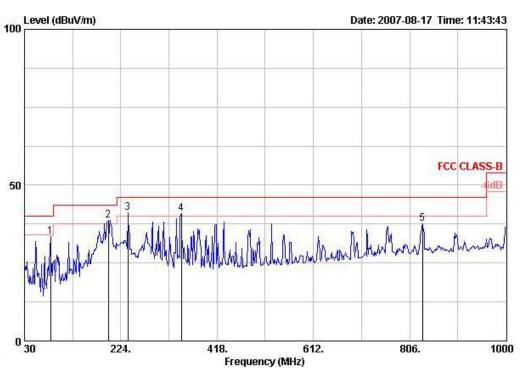
Limit line = specific limits (dBuV) + distance extrapolation factor.



4.5.8. Results of Radiated Emissions (30MHz~1GHz)

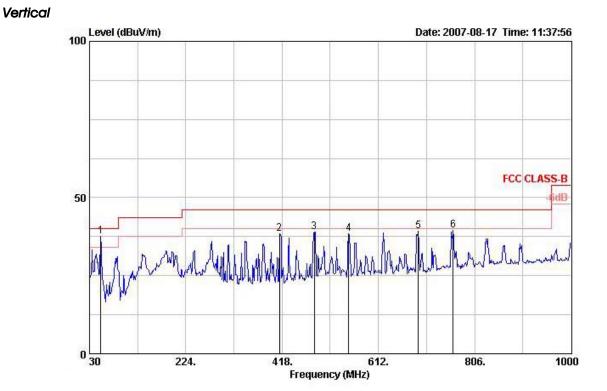
Temperature	23 ℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	Normal Link / Mode 11

Horizontal



			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		- <u> </u>	deg
1	82.380	33.61	-6.39	40.00	51.39	8.02	0.39	26.18	Peak	100	0
2 @	198.780	38.72	-4.78	43.50	53.01	10.22	0.95	25.45	Peak	100	0
3 !	238.550	41.21	-4.79	46.00	53.42	12.11	1.11	25.43	Peak	100	0
4 !	346.220	40.99	-5.01	46.00	49.62	15.19	1.16	24.99	Peak	100	0
5	832.190	37.52	-8.48	46.00	38.79	21.15	2.52	24.94	Peak	100	0





	Freq	Level	Over Limit	100000000	2120732	intenna Factor		2019-003-019-00.		Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
10	52.310	37.56	-2.44	40.00	54.79	8.54	0.62	26.39	Peak	400	0
2	413.150	38.53	-7.47	46.00	45.93	16.69	1.56	25.65	Peak	400	0
3	482.990	38.93	-7.07	46.00	45.87	17.59	1.68	26.21	Peak	400	0
4	551.860	38.43	-7.57	46.00	44.46	18.62	1.63	26.27	Peak	400	0
5	692.510	39.30	-6.70	46.00	43.45	19.68	2.13	25.97	Peak	400	0
6	762.350	39.62	-6.38	46.00	41.97	20.25	2.49	25.09	Peak	400	0

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.



4.5.9. Results for Radiated Emissions (1GHz \sim 10th Harmonic)

Temperature	23 ℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11b CH 1 / Z-axis

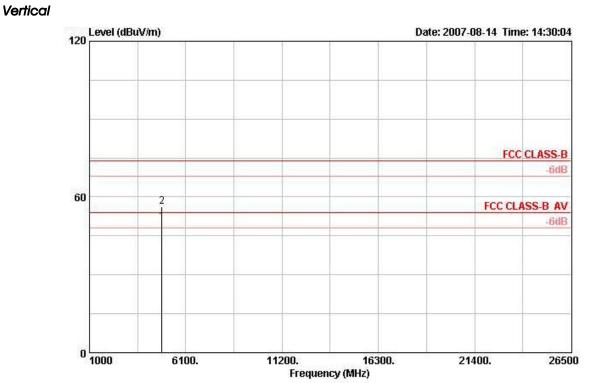
0 1000	6100.	11200.	16300.	21400.	265
				FUC CL	-6dB
0	2			Tec et	ASS-B AV
					-6dB
				FCC	CLASS-B

Horizontal

	Freq	Level				Antenna Factor				Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	90		deg
1	4823.990	44.69	-9.31	54.00	37.32	33.39	7.21	33.24	AVERAGE	119	8
2	4824.200	54.43	-19.57	74.00	47.06	33.39	7.21	33.24	PEAK	119	8





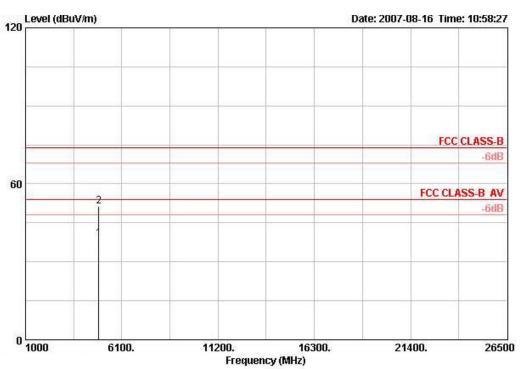


	Freq	Level				Antenna Factor			Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	5 5		deg
1!	4823.970	50.23	-3.77	54.00	42.86	33.39	7.21	33.24	AVERAGE	100	144
2	4824.000	56.28	-17.72	74.00	48.91	33.39	7.21	33.24	PEAK	100	144



Temperature	23 ℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11b CH 6 / Z-axis

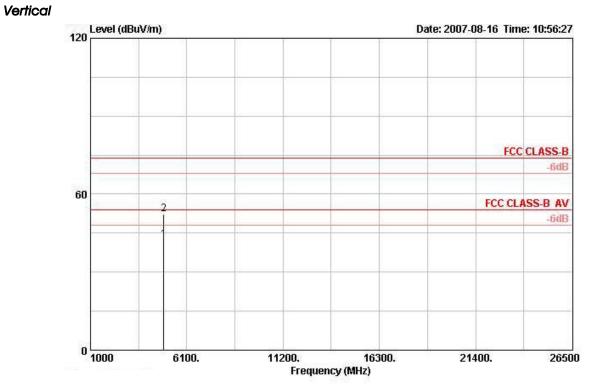
Horizontal



	Freq	Level				Antenna Factor				Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	5		deg
1	4873.930	38.81	-15.19	54.00	31.32	33.48	7.24	33.23	AVERAGE	108	3
2	4874.620	51.41	-22.59	74.00	43.92	33.48	7.24	33.23	PEAK	108	3







	Freq	Level				Antenna Factor		영양 집 집 같아요.		Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	5 <u> </u>		deg
1@	4873.970	42.49	-11.51	54.00	35.00	33.48	7.24	33.23	AVERAGE	114	29
2	4874.050	52.27	-21.73	74.00	44.77	33.48	7.24	33.23	PEAK	114	29



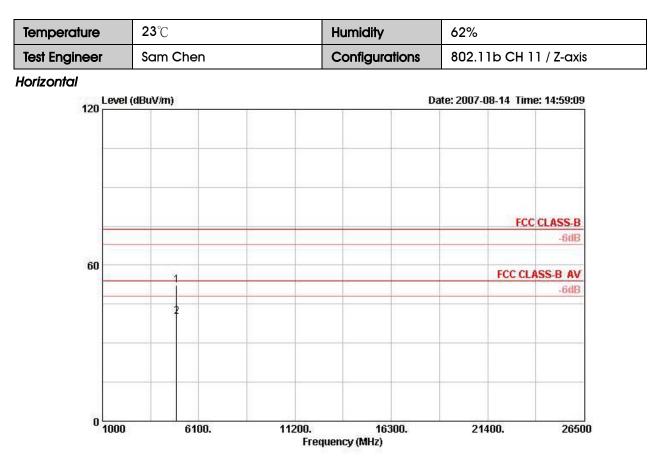
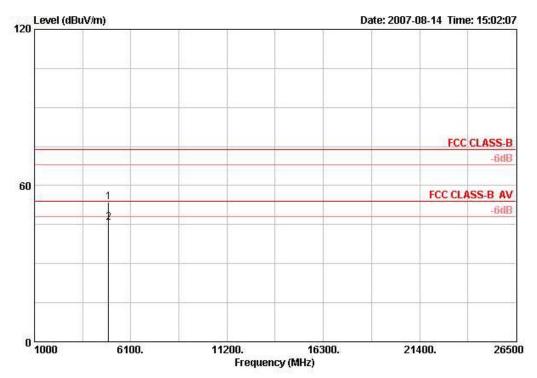


Table Pos	Ant Pos						Limit Line		Level	Freq
deg			dB	dB	dB/m	dBuV	dBuV/m	dB	dBuV/m	MHz
1	114	PEAK	33.22	7.26	33.58	44.68	74.00	-21.70	52.30	4923.890
1	114	AVERAGE	33.22	7.26	33.58	32.71	54.00	-13.67	40.33	4924.010





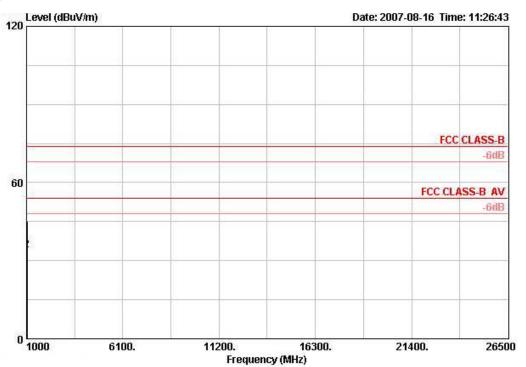
Vertical



	Freq	Level				Antenna Factor				Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	S		deg
1	4923.750	53.74	-20.26	74.00	46.12	33.58	7.26	33.22	PEAK	100	148
2 @	4923.950	45.91	-8.09	54.00	38.29	33.58	7.26	33.22	AVERAGE	100	148



Temperature	23 ℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11g CH 1 / Z-axis
Horizontal			



	Freq	Level				Antenna Factor				Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	·		deg
1	1030.640	45.27	-28.73	74.00	52.76	24.11	3.14	34.75	PEAK	100	70
2	1031.060	34.16	-19.84	54.00	41.66	24.11	3.14	34.75	AVERAGE	130	70





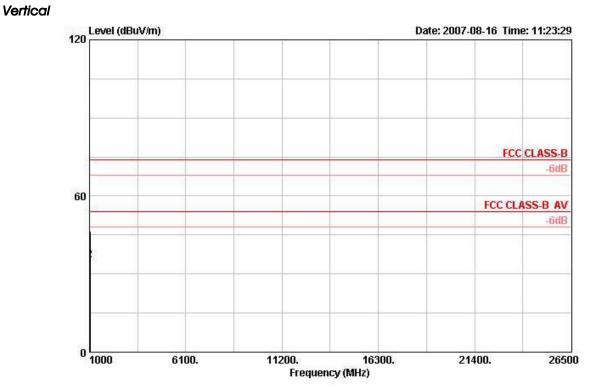
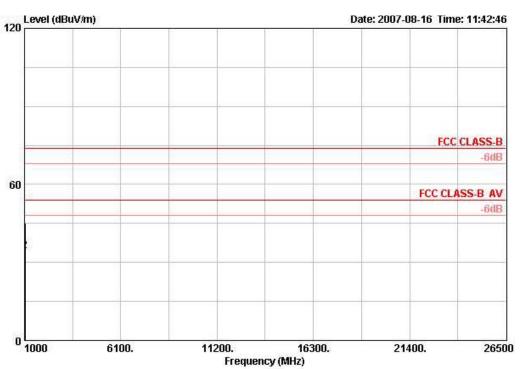


Table Pos	Ant Pos				Intenna Factor				Level	Freq
deg			dB	dB	dB/m	dBuV	dBuV/m	dB	dBuV/m	MHz
315	100	PEAK	34.75	3.14	24.11	53.86	74.00	-27.64	46.36	1029.020
315	100	AVERAGE	34.75	3.14	24.11	42.68	54.00	-18.82	35.18	1031.010



Temperature	23 ℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11g CH 6 / Z-axis

Horizontal



	Freq	Level				Antenna Factor				Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	1028.900	45.19	-28.81	74.00	52.68	24.11	3.14	34.75	PEAK	100	71
2	1031.020	34.20	-19.80	54.00	41.70	24.11	3.14	34.75	AVERAGE	100	71



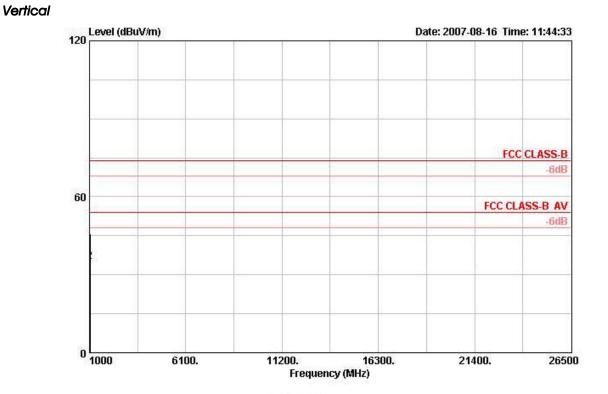


Table Pos	Ant Pos				Intenna Factor				Level	Freq
deg	cm.		dB	dB	dB/m	dBuV	dBuV/m	dB	dBuV/m	MHz
313	100	PEAK	34.75	3.14	24.11	53.16	74.00	-28.34	45.66	1030.480
313	100	AVERAGE	34.75	3.14	24.11	42.51	54.00	-18.99	35.01	1031.100



0 L 1000

6100.

FCC CLASS-B

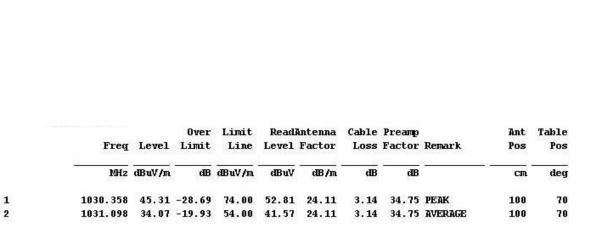
FCC CLASS-B AV

21400.

-6dB

26500

Temperature	23 °C	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11g CH 11 / Z-axis
Horizontal			
120 Level	(dBuV/m)		Date: 2007-08-16 Time: 13:21:52



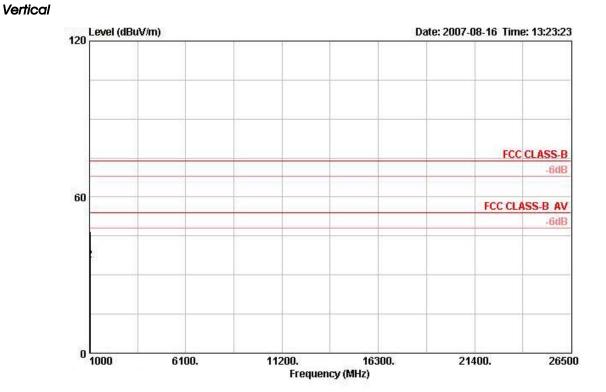
11200.

Frequency (MHz)

16300.







Freq	Level				Antenna Factor				Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBu¥	dB/m	dB	dB			deg
1030.358	46.74	-27.26	74.00	54.23	24.11	3.14	34.75	PEAK	100	302
1031.098	35.78	-18.22	54.00	43.28	24.11	3.14	34.75	AVERAGE	100	305

Note:

1 2

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.



4.6. Band Edge Emissions Measurement

4.6.1. 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

4.6.2. Measuring Instruments and Setting

Please refer to section 5 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

4.6.3. Test Procedures

- 1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
- 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.

4.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

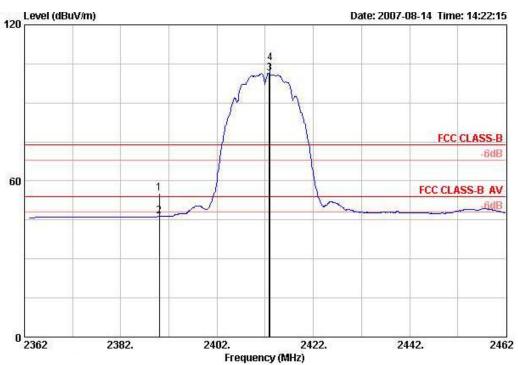
The EUT was programmed to be in continuously transmitting mode.



4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	23 ℃	Humidity	62%
Test Engineer	Sam Chen	Configurations	802.11b CH 1, 11

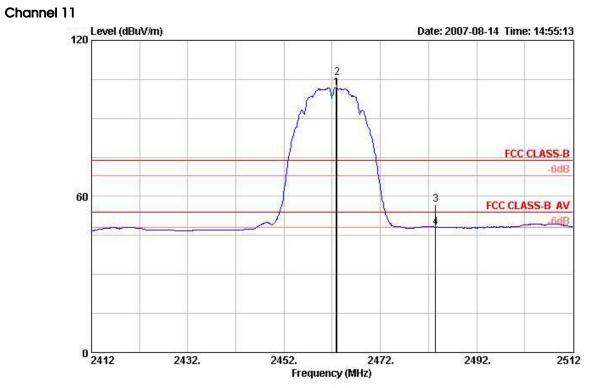




	Freq	Level		Limit Line		Antenna Factor			Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	2390.000	55.14	-18.86	74.00	22.11	28.05	4.98	0.00	PEAK	155	360
2	2390.000	46.28	-7.72	54.00	13.24	28.05	4.98	0.00	AVERAGE	155	360
3 @	2412.800	101.32			68.25	28.09	4.98	0.00	AVERAGE	155	360
4	2413.000	105.14			72.07	28.09	4.98	0.00	PEAK	155	360

Item 3, 4 are the fundamental frequency at 2412 MHz.

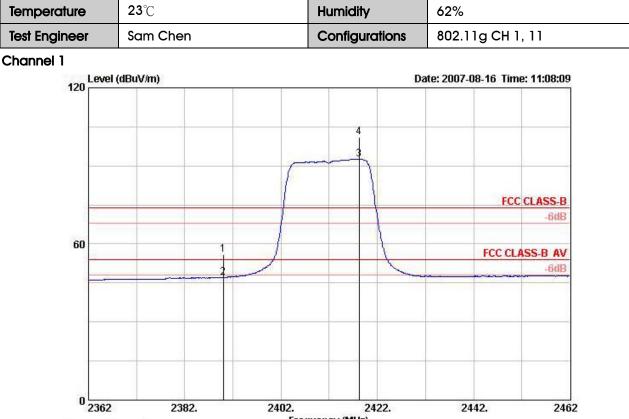




	Freq	Level				ntenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	s;		deg
10	2462.800	101.82			68.53	28.22	5.07	0.00	Average	151	352
2 @	2463.000	105.67			72.38	28.22	5.07	0.00	PEAK	151	352
3	2483.500	56.88	-17.12	74.00	23.51	28.26	5.11	0.00	PEAK	151	352
4 @	2483.500	48.14	-5.86	54.00	14.77	28.26	5.11	0.00	AVERAGE	151	352

Item 1, 2 are the fundamental frequency at 2462 MHz.





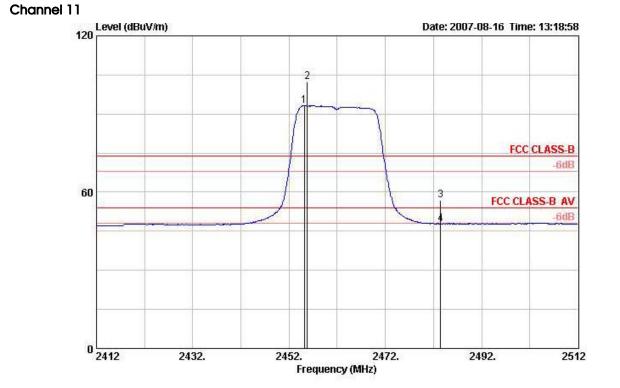
2402.	2422.
Frequer	ncy (MHz)

Freq	Level		Limit Line		Antenna Factor				Ant Pos	Table Pos
МНг	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1 2390.000	55.91	-18.09	74.00	22.87	28.05	4.98	0.00	PEAK	177	175
2 @ 2390.000	47.03	-6.97	54.00	14.00	28.05	4.98	0.00	AVERAGE	177	175
3 @ 2418.200	92.60			59.49	28.09	5.02	0.00	AVERAGE	177	175
4 @ 2418.200	101.10			67.98	28.09	5.02	0.00	PEAK	177	175

Item 3, 4 are the fundamental frequency at 2412 MHz.







				Limit		Antenna				Ant	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	5 <u> </u>	cm	deg
10	2455.200	93.19			59.91	28.22	5.07	0.00	AVERAGE	182	144
2 @	2455.800	102.24			68.95	28.22	5.07	0.00	PEAK	182	144
3	2483.500	56.77	-17.23	74.00	23.40	28.26	5.11	0.00	PEAK	182	144
4 @	2483.500	47.75	-6.25	54.00	14.38	28.26	5.11	0.00	AVERAGE	182	144

Item 1, 2 are the fundamental frequency at 2462 MHz.

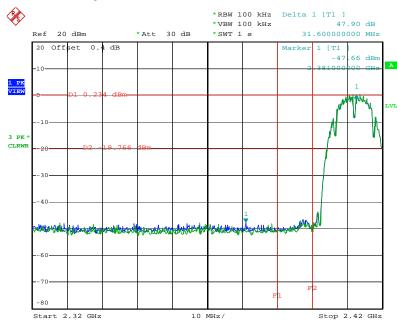
Note:

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

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



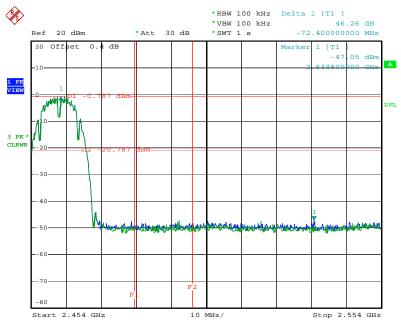
For Emission not in Restricted Band



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

Date: 16.AUG.2007 15:23:05

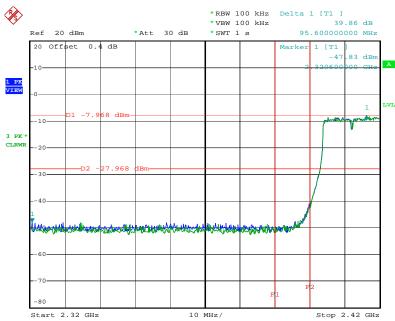
High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



Date: 16.AUG.2007 15:15:30



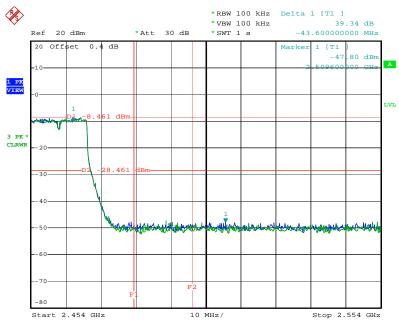




Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz

Date: 16.AUG.2007 15:59:56

High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 16.AUG.2007 15:20:51



4.7. Antenna Requirements

4.7.1. 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.

4.7.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.





5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100359	9kHz – 2.75GHz	Mar. 01, 2007	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Mar. 26, 2007	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
lsolation Transformer	Erika Fiedler OHG	D-65396 Walluf	58	45MHz-2.15GHz	N/A	Conduction (CO04-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 14, 2007	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	CPA9231A	1886	9 kHz - 2 GHz	Jan. 22, 2007	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jun.07, 2007	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	923364	26.5 GHz - 40 GHz	Jan. 22, 2007*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004/040	9 kHz - 40 GHz	Sep. 21, 2006	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 23, 2006*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 21, 2007	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	May 04, 2007	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	NCR	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec. 02, 2006	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec. 02, 2006	Radiation (03CH03-HY)
Turn Table	HD	D\$ 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)
Spectrum Analyzer	R&S	FSP30	100023	9kHz ~ 30GHz	Dec. 17, 2006	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jun. 27, 2007	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	May 04, 2007*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 03, 2007	Conducted (TH01-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 02, 2006	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20 MHz ~ 7 GHz	Dec. 01, 2006	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20 MHz ~ 1 GHz	Dec. 01, 2006	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Nov. 14, 2006	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 07, 2007	Conducted (TH01-HY)

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

* Calibration Interval of instruments listed above is two year.

NCR means Non-Calibration required.



6. 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



7. TAF CERTIFICATE OF ACCREDITATION

	Certificate No.: L1190-070110 財團法人全國認證基金會
	Taiwan Accreditation Foundation
Ce	rtificate of Accreditation
	This is to certify that
	Sporton International Inc.
	& Wireless Communications Laboratory
No.52, Hwa Ya 1st Ro	., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
is	s 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 Program	Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory
	Jay-san Chen
	Jay-San Chen President, Taiwan Accreditation Foundation Date : January 10, 2007