

FCC EMC TEST REPORT CERTIFICATE

according to

47 CFR FCC Part 15 Subpart B

Equipment : 300N Wireless LAN USB Adapter
Model No. : EW-7822GTN, GWU-H822GTn,
EW-7722UTn V2, EW-7822UAN,
GWU-H822UAn
Brand Name : EDIMAX
Filing Type : New Application
Applicant : EDIMAX TECHNOLOGY CO., LTD.
No.3, Wu Chuan 3rd Road, Wu-Ku Industrial
Park, Taipei Hsien, Taiwan
FCC ID : NDD9578221026
Manufacturer : EDIMAX TECHNOLOGY CO., LTD.
No.3, Wu Chuan 3rd Road, Wu-Ku Industrial
Park, Taipei Hsien, Taiwan
Received Date : Oct. 14, 2010
Final Test Date : Jan. 21, 2011
Multiple Listing : Please refer to section 2.3

Statement

Test result included is only for the equipment with PIFA Antenna 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 B**.

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



SPORTON International Inc.

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

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History of This Test Report

Original Issue Date: Jan. 28, 2011

Report No.: FC110510

Report No.	Issue Date	Description

CERTIFICATE OF COMPLIANCE CERTIFICATE

according to

47 CFR FCC Part 15 Subpart B

Equipment : 300N Wireless LAN USB Adapter
Model No. : EW-7822GTN, GWU-H822GTn,
EW-7722UTn V2, EW-7822UAN,
GWU-H822UAn
Brand Name : EDIMAX
Applicant : EDIMAX TECHNOLOGY CO., LTD.
No.3, Wu Chuan 3rd Road, Wu-Ku Industrial Park,
Taipei Hsien, Taiwan

WE HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4-2003 and the energy emitted by this equipment were passed 47 CFR FCC Part 15 Subpart B. Testing was carried out on Oct. 14, 2010 at SPORTON International Inc. LAB.



Wayne Hsu / Vice Manager

SPORTON International Inc.

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

1 SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart B				
Part	Rule Section	Description of Test	Result	Under Limit
3.1	15.107	AC Power Line Conducted Emissions	Complies	16.51 dB
3.2	15.109	Radiated Emissions	Complies	4.76 dB

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Radiated Emissions	±1.9dB	Confidence levels of 95%

2 GENERAL INFORMATION

2.1 Product Details

The RF detail of EUT is shown in this report. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.2 Table for Test Modes

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
AC Power Line Conducted Emissions	Normal Mode
Radiated Emissions (30MHz~1GHz)	Normal Mode
Radiated Emissions (Above 1GHz)	CRX 802.11g CH 6 / CRX 802.11n CH 6 (20MHz) / CRX 802.11n CH 6 (40MHz)

2.3 Table for Multiple Listing

No.	Brand Name	Model Name
1	Edimax	EW-7822GTN,GWU-H822GTn,EW-7722UTn V2, EW-7822UAN,GWU-H822UAN
2	Belkin	F7D2102

2.4 Table for Testing Locations

Test Site No.	Site Category	Location
CO04-HY	Conduction	Hwa Ya
03CH02-HY	SAC	Hwa Ya

Semi Anechoic Chamber (SAC).

2.5 Table for Supporting Units

Support Unit	Brand	Model	FCC ID	Remark
Notebook	DELL	E5500	DoC	Conducted Emissions
Modem	ACEEX	DM1414	DoC	
(USB)Mouse	Microsoft	1004	DoC	
Wireless AP (Remote workstation)	D-Link	DNS-G120	DoC	
Notebook	DELL	E5500	DoC	Radiated Emissions
Modem	ACEEX	DM1414	DoC	
(USB)Mouse	Microsoft	1004	DoC	

2.6 EUT Operation during Test

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

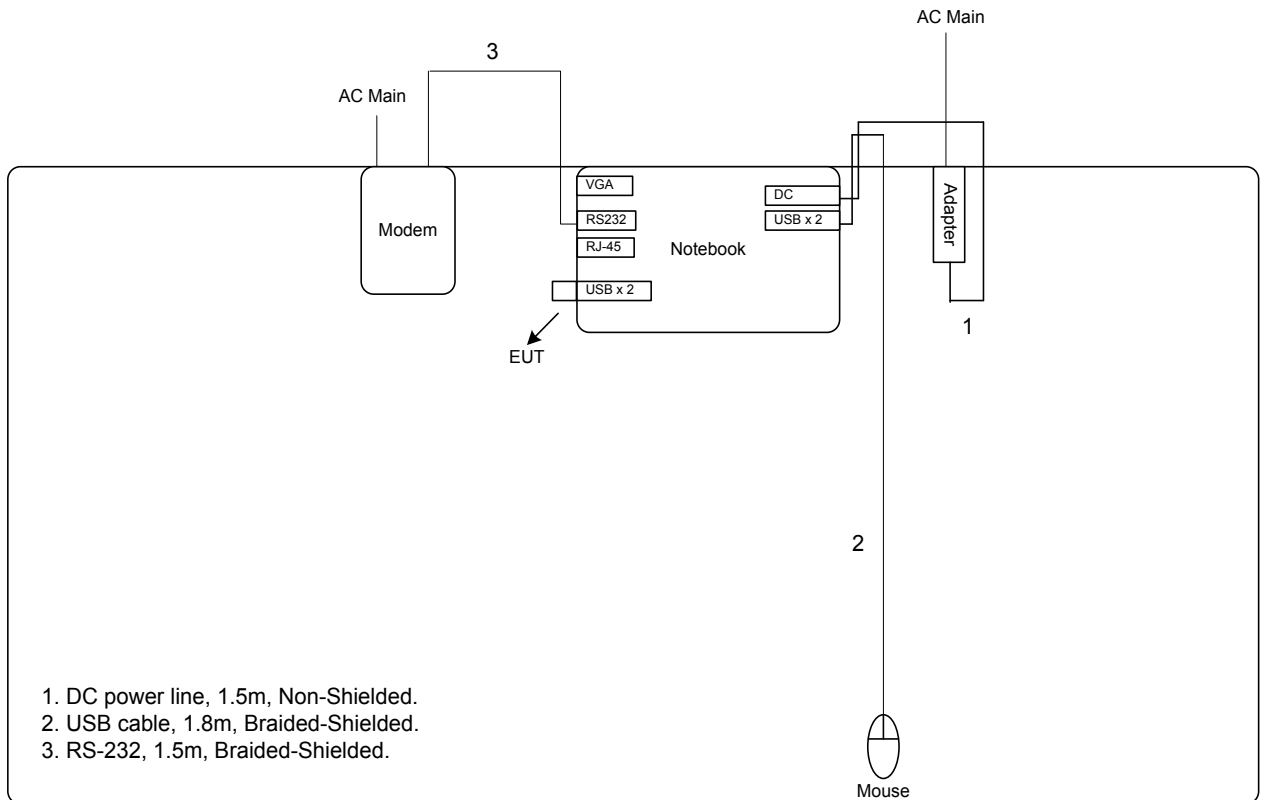
The program was executed as follows :

- Turn on the power of all equipment.
- The NB reads the test program from the hard disk drive and runs it.
- The NB sends "H" messages to the monitor, and the monitor displays "H" patterns on the screen.
- The NB sends "H" messages to the modem.
- The NB sends "H" messages to the internal hard disk, and the hard disk reads and writes the message.
- Repeat the steps from c to e.

At the same time, the following programs were executed:

- Executed " Realtek 11n single chip 9xC USB WLAN NIC " to the internal hard disk, and the hard disk reads and writes the message.
- Executed "ping.exe" to link with the remote workstation to receive and transmit data by wireless.

Radiation Emissions Test Configuration



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

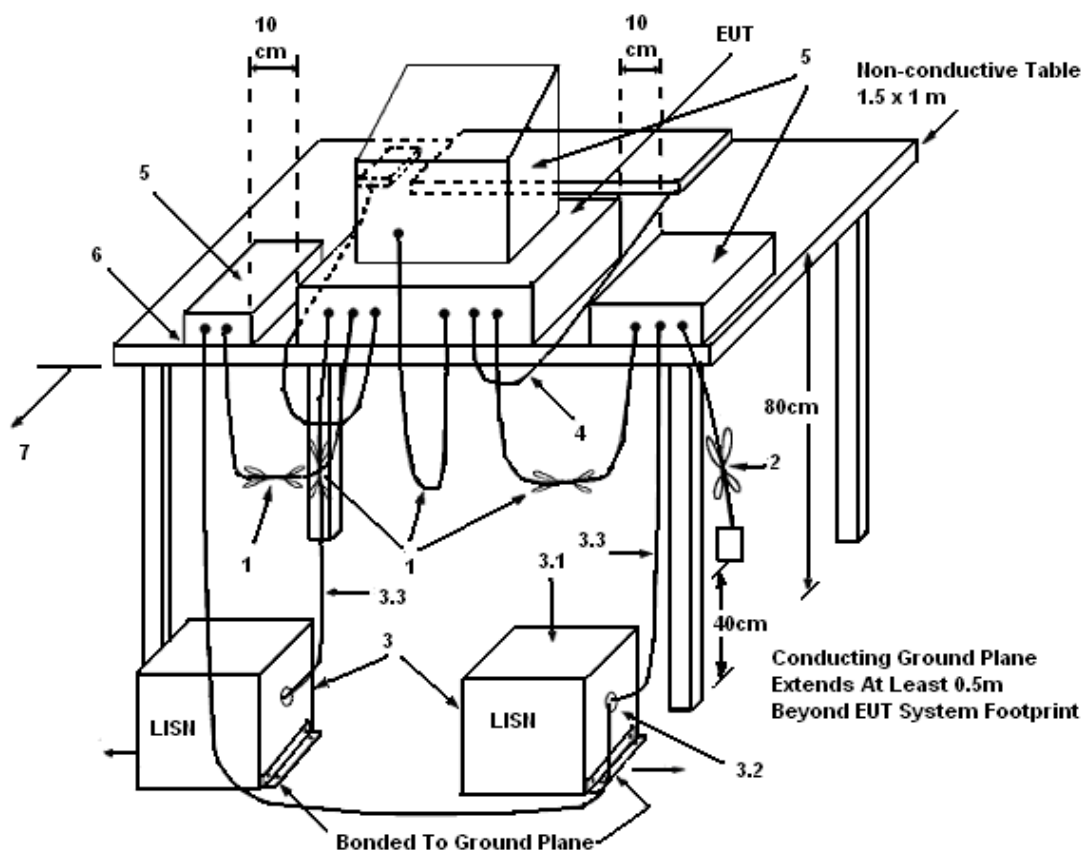
Please refer to section 4 of equipments list in this report. The following table is the setting of the receiver.

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. The EUT warm up about 15 minutes then start test.
2. 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.
3. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
5. The frequency range from 150 KHz to 30 MHz was searched.
6. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
7. The measurement has to be done between each power line and ground at the power terminal.

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.

3.1.5 Test Deviation

There is no deviation with the original standard.

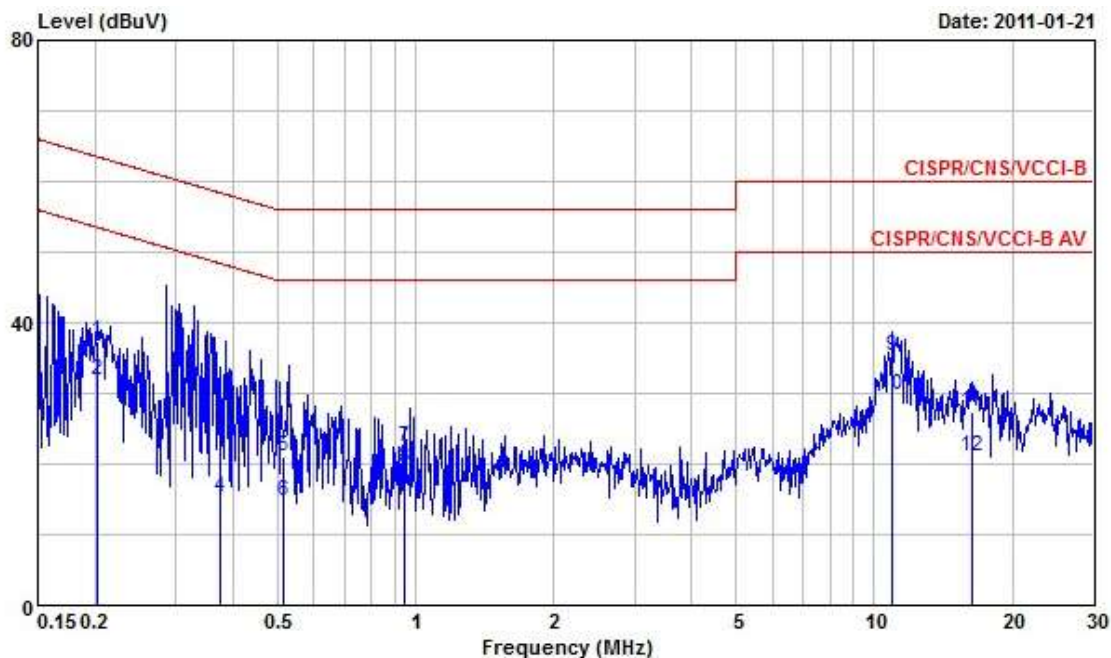
3.1.6 EUT Operation during Test

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

3.1.7 Results of AC Power Line Conducted Emissions Measurement

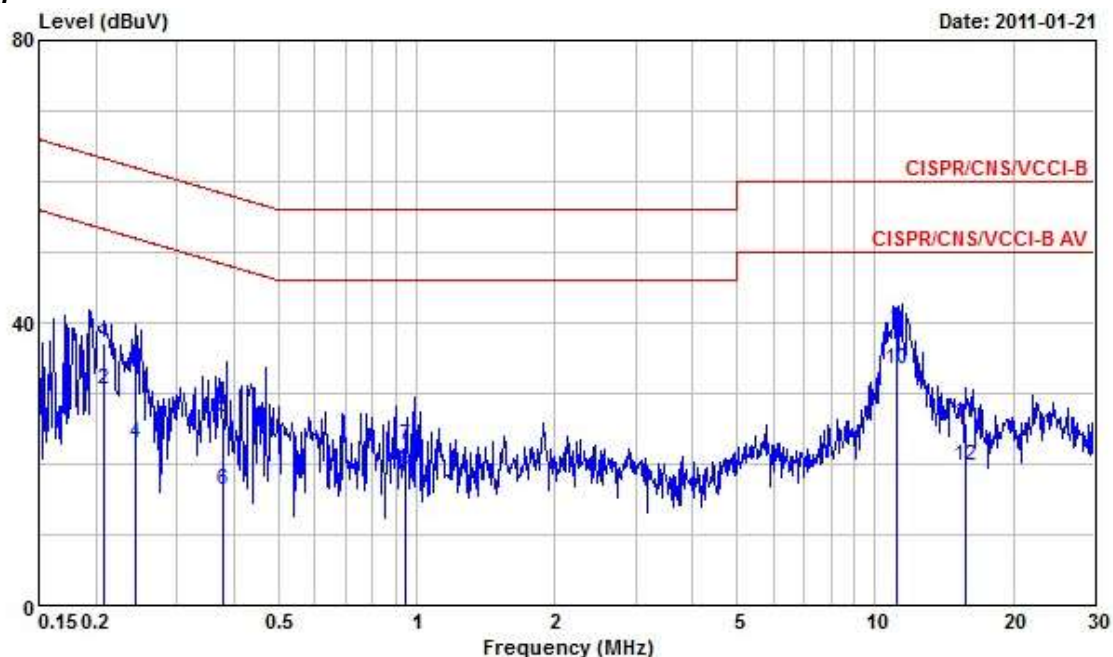
Final Test Date	Jan. 21, 2011	Test Site No.	CO04-HY
Temperature	22.3°C	Humidity	56.6%
Test Engineer	Jason	Configuration	Normal Mode

Line



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.2028850	37.41	-26.08	63.49	37.23	0.08	0.10	QP
2	0.2028850	31.80	-21.69	53.49	31.62	0.08	0.10	Average
3	0.3760120	25.86	-32.51	58.37	25.76	0.09	0.01	QP
4	0.3760120	15.34	-33.03	48.37	15.24	0.09	0.01	Average
5	0.5133420	21.03	-34.97	56.00	20.90	0.10	0.03	QP
6	0.5133420	14.64	-31.36	46.00	14.51	0.10	0.03	Average
7	0.9495420	22.46	-33.54	56.00	22.26	0.11	0.09	QP
8	0.9495420	19.46	-26.54	46.00	19.26	0.11	0.09	Average
9	10.960	35.16	-24.84	60.00	34.74	0.28	0.14	QP
10	10.960	29.62	-20.38	50.00	29.20	0.28	0.14	Average
11	16.310	27.28	-32.72	60.00	26.70	0.34	0.24	QP
12	16.310	21.01	-28.99	50.00	20.43	0.34	0.24	Average

Neutral



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.2083320	37.20	-26.07	63.27	37.03	0.08	0.09	QP
2	0.2083320	30.56	-22.71	53.27	30.39	0.08	0.09	Average
3	0.2429320	33.14	-28.86	62.00	32.99	0.08	0.07	QP
4	0.2429320	22.85	-29.15	52.00	22.70	0.08	0.07	Average
5	0.3795900	26.51	-31.78	58.29	26.42	0.08	0.01	QP
6	0.3795900	16.22	-32.07	48.29	16.13	0.08	0.01	Average
7	0.9495950	22.66	-33.34	56.00	22.47	0.10	0.09	QP
8	0.9495950	19.25	-26.75	46.00	19.06	0.10	0.09	Average
9	11.190	39.22	-20.78	60.00	38.79	0.28	0.15	QP
10	11.190	33.49	-16.51	50.00	33.06	0.28	0.15	Average
11	15.720	25.73	-34.27	60.00	25.12	0.34	0.27	QP
12	15.720	19.61	-30.39	50.00	19.00	0.34	0.27	Average

Note:

Level = Read Level + LISN Factor + Cable Loss.

3.2 Radiated Emissions Measurement

3.2.1 Limit

Measurements shall be made with a quasi-peak measuring receiver in the frequency range 30 MHz to 5th harmonic of highest frequency. The quasi-peak measuring receiver shall be in accordance with clause 2 of CISPR 16-1. Receivers with peak detectors shall be in accordance with clause 3 of CISPR 16-1, and shall have a 6 dB bandwidth in accordance with clause 2 of CISPR 16-1.

Frequency of Emission (MHz)	Field Strength QP Limit (dBuV/m) at 3m
30~88	40
88~216	43.5
216~960	46

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 spectrum analyzer and receiver.

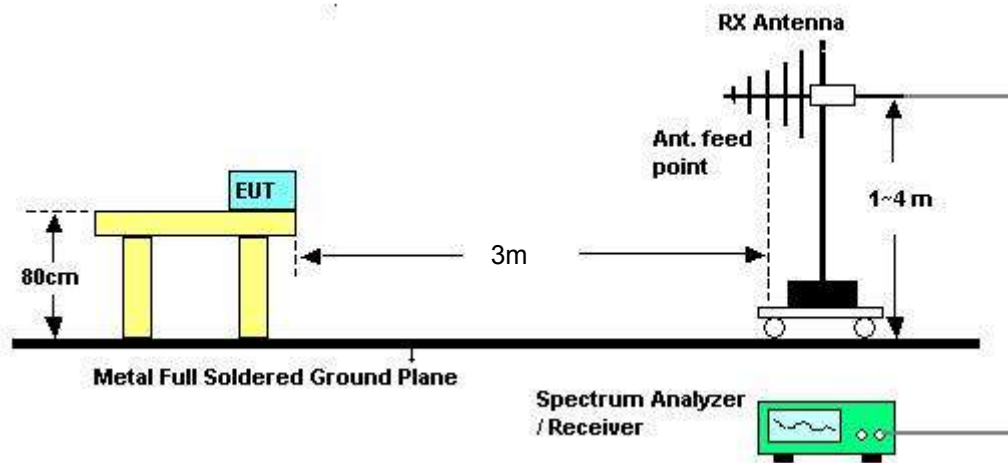
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

Spectrum Parameter	Setting
Start Frequency	1000 MHz
Stop Frequency	5th harmonic of highest frequency
RB / VB	1 MHz / 1MHz for Peak; 1 MHz / 10Hz for Average

3.2.3 Test Procedures

1. 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.

3.2.4 Test Setup Layout

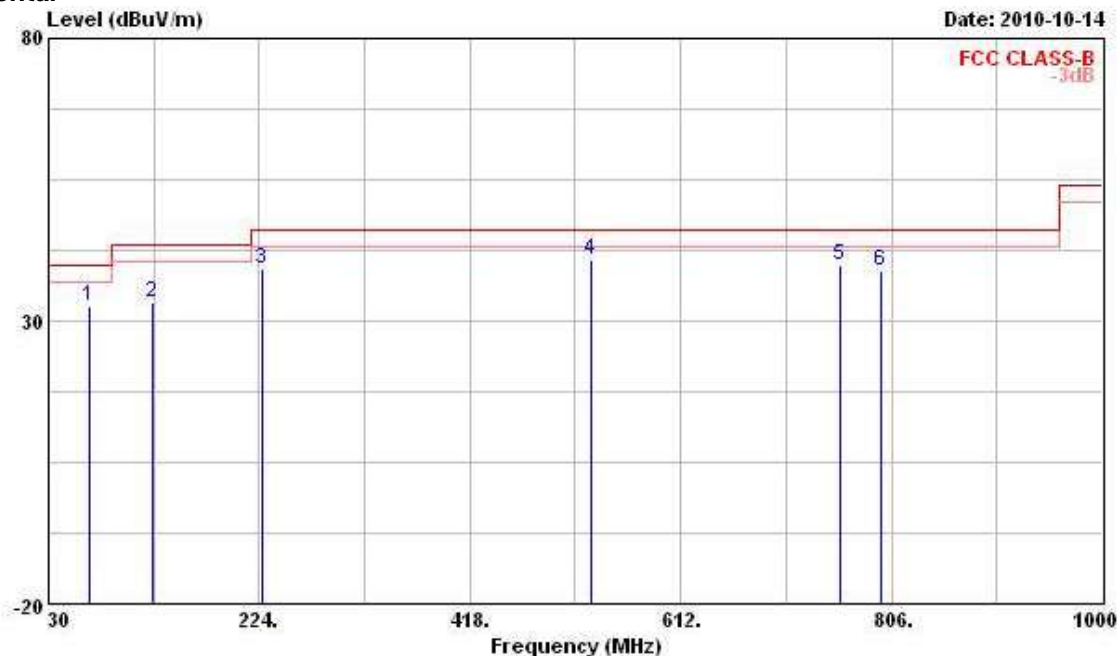


3.2.5 Test Deviation

There is no deviation with the original standard.

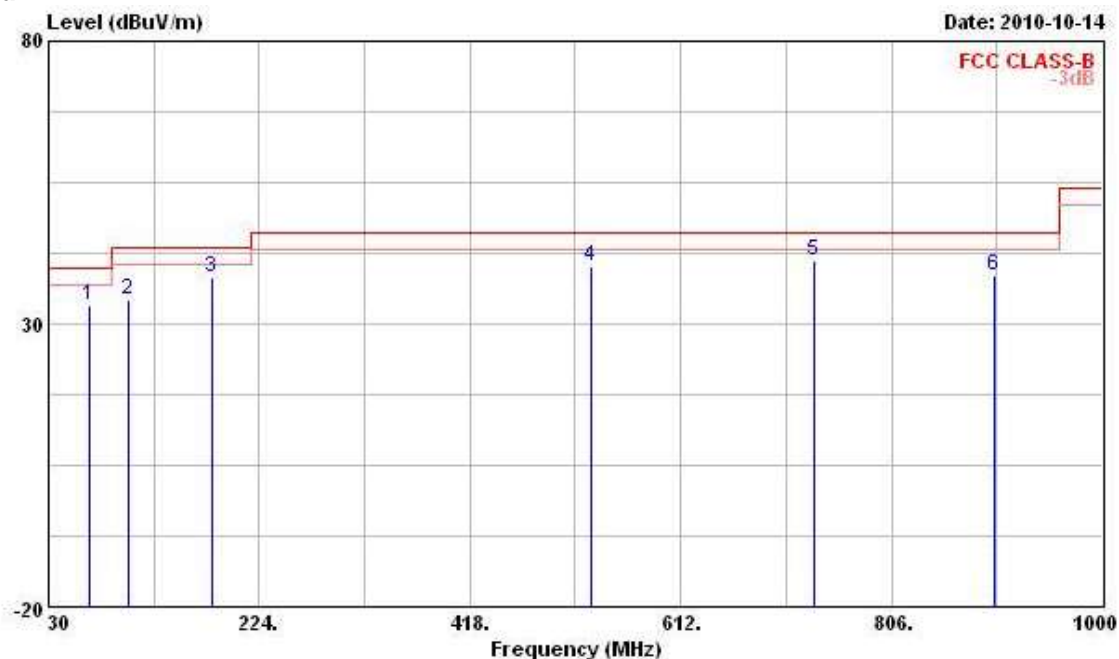
3.2.6 Results of Radiated Emissions (30MHz~1GHz)

Final Test Date	Oct. 14, 2010	Test Site No.	03CH02-HY
Temperature	21°C	Humidity	52%
Test Engineer	Chris	Configuration	Normal Mode

Horizontal

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	66.860	32.73	-7.27	40.00	52.30	6.85	1.30	27.72	Peak
2	125.060	33.14	-10.36	43.50	45.67	13.18	1.82	27.53	Peak
3	225.940	39.30	-6.70	46.00	51.51	12.21	2.51	26.93	Peak
4	529.550	40.79	-5.21	46.00	47.06	18.12	3.78	28.17	Peak
5	758.470	39.97	-6.03	46.00	43.53	19.68	4.61	27.85	Peak
6	796.300	39.02	-6.98	46.00	41.80	20.21	4.75	27.74	Peak

Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	66.860	33.18	-6.82	40.00	52.75	6.85	1.30	27.72	Peak
2	102.750	34.29	-9.21	43.50	48.71	11.53	1.64	27.59	Peak
3	180.350	38.10	-5.40	43.50	53.24	9.90	2.21	27.25	Peak
4	529.550	40.05	-5.95	46.00	46.32	18.12	3.78	28.17	Peak
5	734.220	41.24	-4.76	46.00	45.31	19.33	4.51	27.91	Peak
6	901.060	38.58	-7.42	46.00	40.85	20.08	5.00	27.35	Peak

Note:

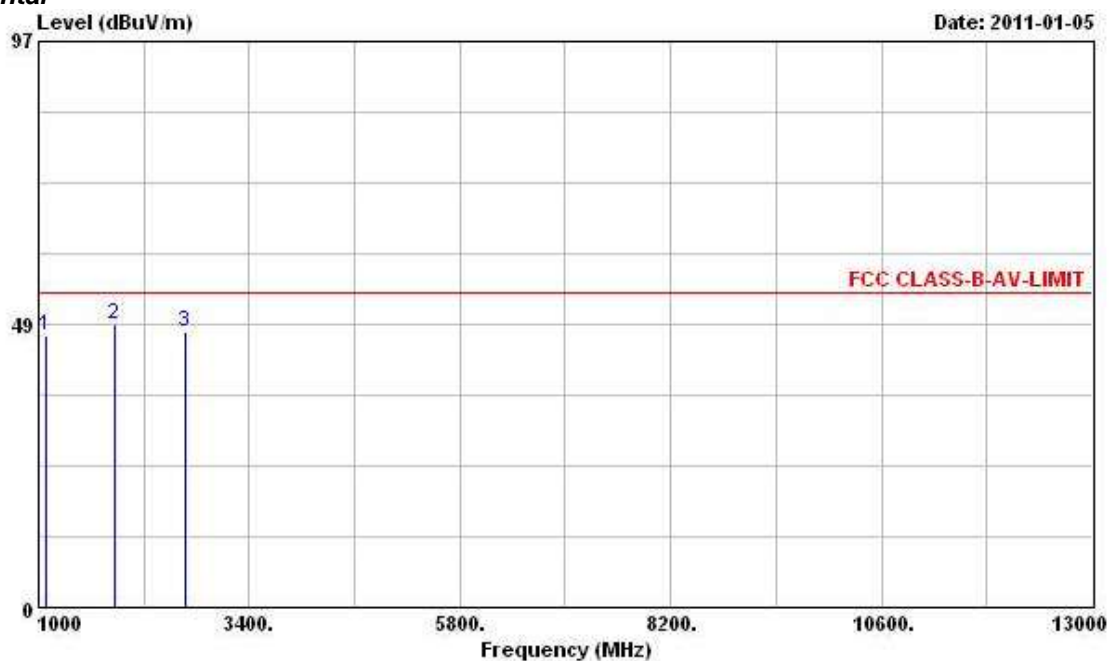
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

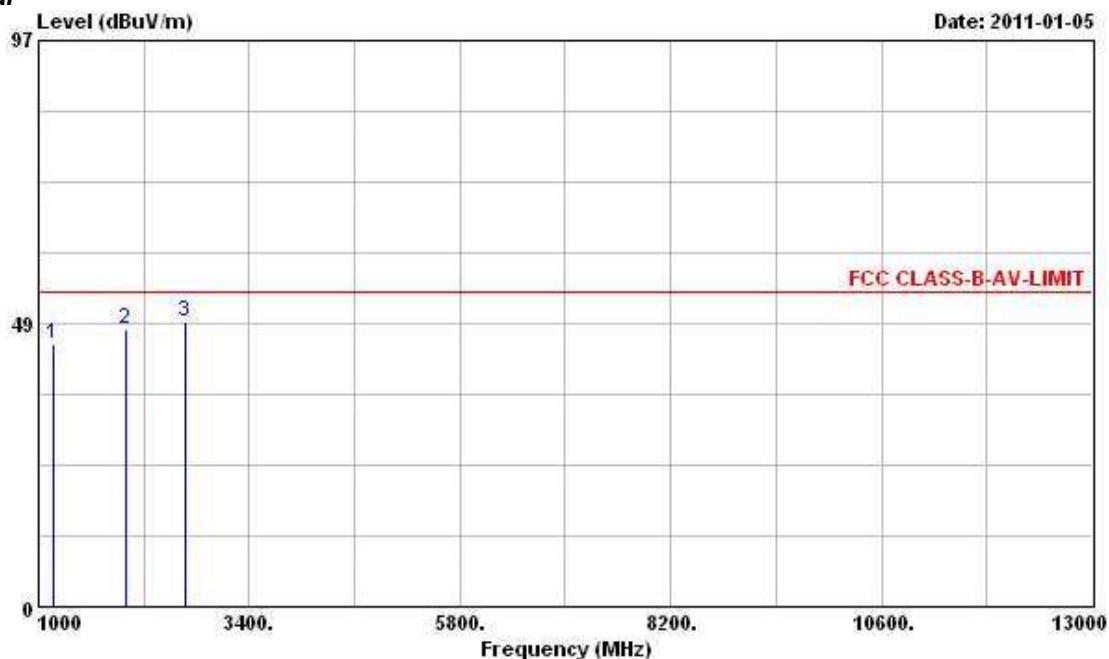
3.2.7 Results for Radiated Emissions (1GHz~5th harmonic of highest frequency)

Final Test Date	Jan. 05, 2011	Test Site No.	03CH02-HY
Temperature	21°C	Humidity	52%
Test Engineer	Chris	Configuration	CRX 802.11g Ch. 6

Horizontal

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Preamp Loss Factor	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	1094.000	46.43	-7.57	54.00	52.12	27.18	1.88	34.75 Peak
2	1860.000	48.52	-5.48	54.00	50.23	29.48	2.59	33.78 Peak
3	2662.000	47.09	-6.91	54.00	45.49	32.60	3.21	34.21 Peak

Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	1164.000	44.96	-9.04	54.00	50.36	27.35	1.95	34.70 Peak
2	1996.000	47.55	-6.45	54.00	47.82	30.60	2.72	33.59 Peak
3	2668.000	48.94	-5.06	54.00	47.27	32.67	3.21	34.21 Peak

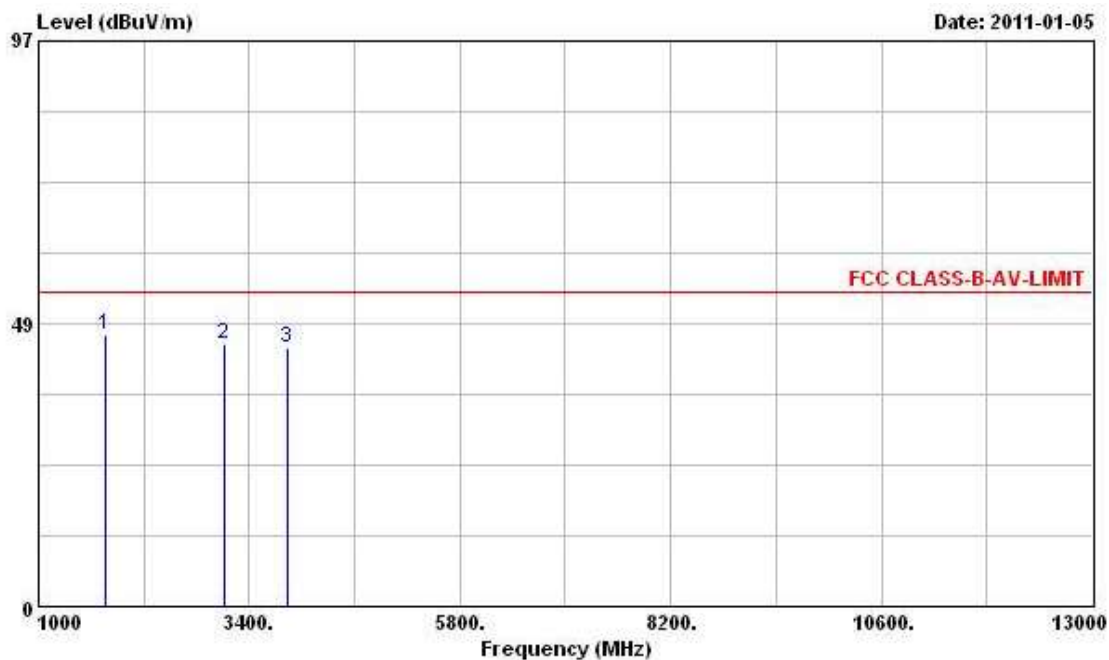
Note:

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.

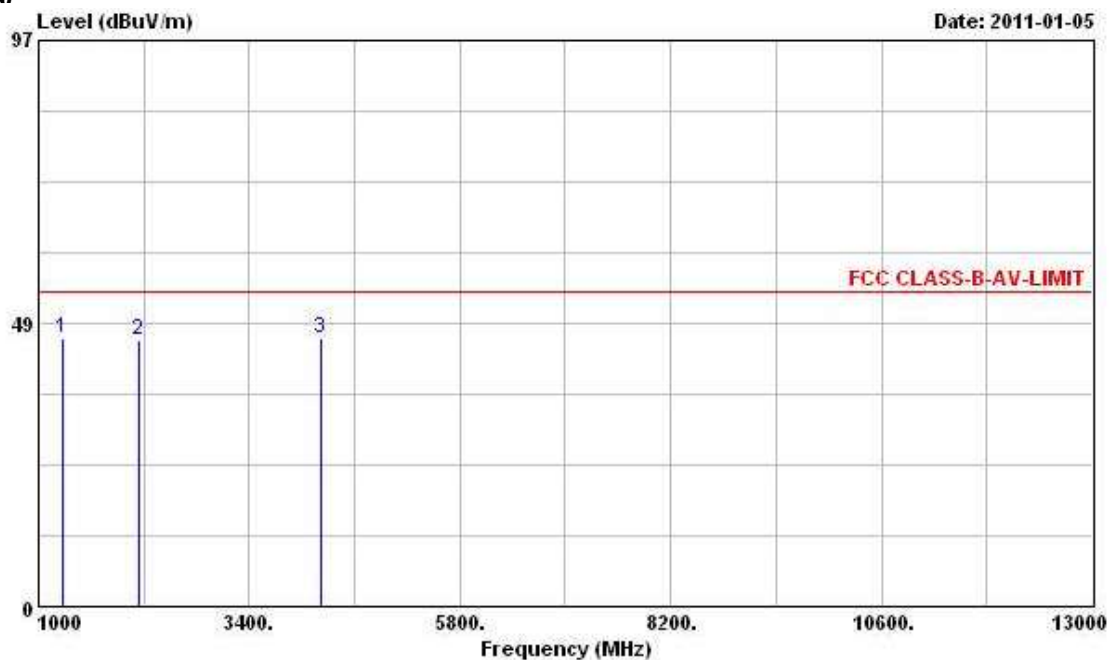
Final Test Date	Jan. 05, 2011	Test Site No.	03CH02-HY
Temperature	21°C	Humidity	52%
Test Engineer	Chris	Configuration	CRX 802.11n Ch. 6 (20MHz)

Horizontal

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	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	1756.000	46.52	-7.48	54.00	49.11	28.85	2.49	33.93 Peak
2	3124.000	45.09	-8.91	54.00	42.36	33.40	3.52	34.19 Peak
3	3842.000	44.43	-9.57	54.00	40.86	34.09	4.06	34.58 Peak

Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	1284.000	45.96	-8.04	54.00	50.79	27.66	2.07	34.56 Peak
2	2147.000	45.55	-8.45	54.00	45.44	31.10	2.81	33.80 Peak
3	4215.000	45.94	-8.06	54.00	41.95	34.46	4.22	34.69 Peak

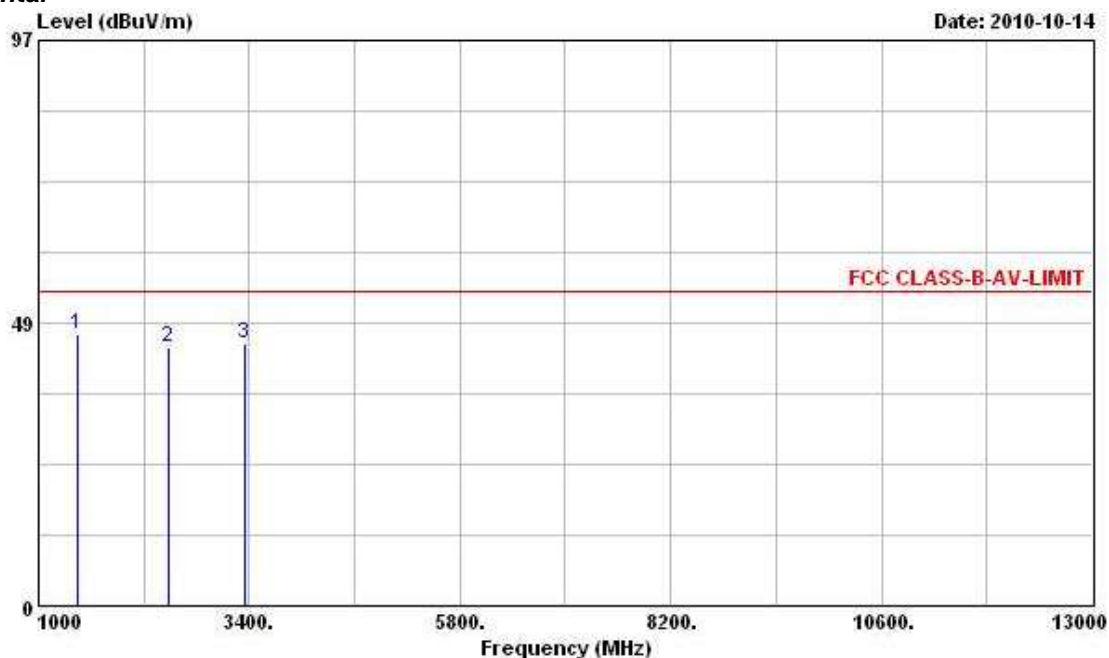
Note:

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).

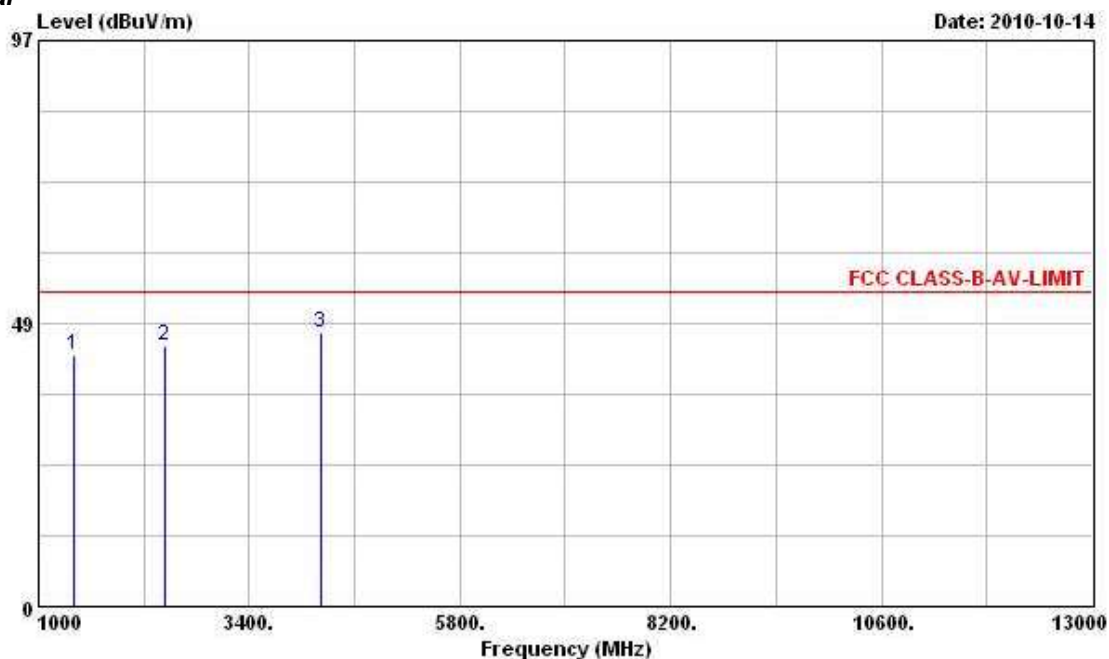
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Final Test Date	Oct. 14, 2010	Test Site No.	03CH02-HY
Temperature	21°C	Humidity	52%
Test Engineer	Chris	Configuration	CRX 802.11n Ch. 6 (40MHz)

Horizontal

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	1435.000	46.52	-7.48	54.00	51.24	27.46	2.22	34.40	Peak
2	2485.000	44.43	-9.57	54.00	43.49	32.13	3.08	34.27	Peak
3	3357.000	45.09	-8.91	54.00	42.47	33.40	3.72	34.50	Peak

Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	1396.000	42.96	-11.04	54.00	47.28	27.93	2.18	34.43	Peak
2	2436.000	44.55	-9.45	54.00	43.55	32.15	3.05	34.20	Peak
3	4219.000	46.94	-7.06	54.00	42.94	34.46	4.23	34.69	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.

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. 06, 2010	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99041	9kHz – 30MHz	Mar. 23, 2010	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Apr. 29, 2010	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2010	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	FSP40	100305/040	9 kHz - 40GHz	Feb. 02, 2010	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30 MHz - 1 GHz 3m	May 01, 2010	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100 kHz – 1.3 GHz	Jul. 23, 2010	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1GHz – 26.5 GHz	Jul. 23, 2010	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3117	00091920	1GHz~18GHz	Nov. 11, 2010	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz ~ 1GHz	Feb. 26, 2010	Radiation (03CH02-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX106	03CH02-HY	1GHz~40GHz	Feb. 26, 2010	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30 MHz - 2 GHz	Oct. 16, 2010	Radiation (03CH02-HY)
Turn Table	HD	DS 420	420/649/00	0 - 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	HD	MA 240	240/559/00	1 m - 4 m	N/A	Radiation (03CH02-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. 29, 2010*	Radiation (03CH02-HY)

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

5 TEST LOCATION

SHIJR	ADD : 6Fl., 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 : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2626
NEIHU	ADD : 4Fl., 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

6 NVLAP CERTIFICATE OF ACCREDITATION


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

Certificate No. : L1190-100529

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, 2010 to January 09, 2013
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 Accreditation Program for BSMI Mutual Recognition Arrangement with Foreign Authorities


Jay-San Chen
President, Taiwan Accreditation Foundation
Date : May 29, 2010

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