

FCC TEST REPORT

REPORT NO.: RF931027H06

MODEL NO.: WPC54G V5

RECEIVED: Oct. 28, 2004

TESTED: Nov. 01 to 04, 2004

ISSUED: Nov. 10, 2004

APPLICANT: Cisco-Linksys, LLC

ADDRESS: 121 Theory Drive Irvine, CA 92612 (USA)

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung Tsuen,

Chiung Lin Hsiang, Hsin Chu Hsien,

Taiwan, R.O.C.

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No. 2177-01



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1 CERTIFICATION

PRODUCT: Wireless-G Network Adapter

BRAND NAME: Linksys

MODEL NO.: WPC54G V5

TESTED: Nov. 01 to 04, 2004 **APPLICANT:** Cisco-Linksys, LLC

TEST ITEM: ENGINEERING SAMPLE

STANDARDS: 47 CFR Part 15, Subpart C (Section 15.247),

ANSI C63.4-2003

The above equipment (Model: WPC54G V5) has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Carol Liao DATE: Nov. 10, 2004

(Carol Liao)

TECHNICAL Flank Ching
ACCEPTANCE :

, **DATE**: Nov. 10, 2004

Responsible for RF (Hank Chung)

(Eric Lin, Manager)



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C							
Standard Section	Test Type and Limit	Result	REMARK				
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit Minimum passing margin is –10.39 dBuV at 0.180 MHz				
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit				
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit				
15.247(c)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is -3.70 dBuV at 4824.00MHz				
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit				
15.247(c)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit				



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless-G Network Adapter
MODEL NO.	WPC54G V5
POWER SUPPLY	3.3VDC from host equipment
MODULATION TYPE	CCK, OFDM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	1/2/5.5/6/9/11/12/18/24/36/48/54Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	15.94dBm
ANTENNA TYPE	Printed Antenna
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

- 1. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
- 2. The EUT complies with IEEE 802.11g draft standards, and backwards compatible with IEEE 802.11b products.
- 3. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided in this EUT.

Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

NOTE:

- 1. Below 1 GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
- 2. Above 1 GHz, the channel 1, 6, and 11 were tested individually.
- 3. Transfer rate, 11Mbps with CCK technique and 6Mbps with OFDM technique, the worst case, were chosen for final test.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Wireless-G Network Adapter. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C. (15.247)

ANSI C63.4: 2003

All tests have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of 47 CFR Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



3.4 DESCRIPTION OF SUPPORT UNITS

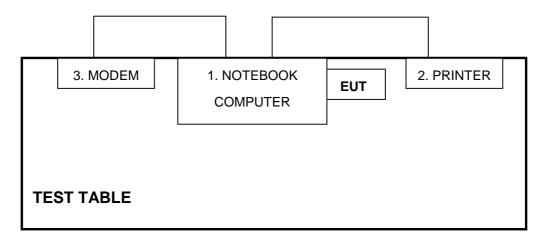
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	NOTEBOOK	DELL	C600	6DRV601	FCC DoC
2	PRINTER	HP	C2642A	MY79F1C3MZ	B94C2642X
3	MODEM	ACEEX	1414	0206026779	IFAXDM1414

No.	Signal cable description
1	NA
	1.8 m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core.
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.

Note: 1. All power cords of the above support units are unshielded (1.8m).

3.5 CONFIGURATION OF SYSTEM UNDER TEST



NOTE: 1. Please refer to the photos of test configuration in Item 5 also.



4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTE	ED LIMIT (dBµV)
0.15-0.5	Quasi-peak	Average
0.15-0.5 0.5-5 5-30	66 to 56 56 60	56 to 46 46 50

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- All emanations from a class B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ	ESCS 30	847124/029	Dec. 06, 2004
Test Receiver			
ROHDE & SCHWARZ LISN	ESHS-Z5	848773/004	Nov. 08, 2005
(for EUT)			
KYORITSU LISN (for peripheral)	KNW-407	8/1395/12	Jul. 23, 2005
RF Cable (JETBAO)	RG233/U	Cable_CA_01	Jul. 02, 2005
Terminator(for KYORITSU)	50	3	May 10, 2005
Software	Cond-V2e	NA	NA

NOTE:

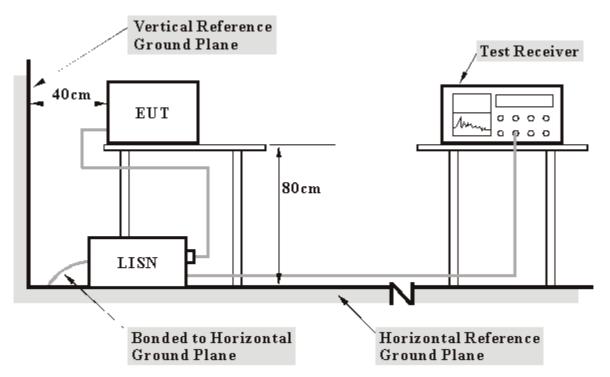
- 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The test was performed in ADT Shielded Room No. A.
- 3 The VCCI Con A Registration No. is C-817.
- 4 The measurement uncertainty is 2.53 dB, which is calculated as per the document CISPR 16-4



4.1.3 TEST PROCEDURES

- a. The EUT/HOST was placed 0.4 meters from the conducting wall of the shielded room with EUT/HOST being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT/HOST were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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



4.1.5 EUT OPERATING CONDITIONS

- a. Plug the EUT into the support unit 1 (Notebook computer) which placed on a testing table.
- b. The support unit 1 (Notebook computer) ran a test program "DutApi class 1.1.10" to enable EUT under transmission condition continuously at specific channel frequency.
- c. Notebook computer sends "H" messages to modem.
- d. Notebook computer sends "H" messages to printer, and the printer prints them on paper.



4.1.6 TEST RESULTS

EUT	Wireless-G Network Adapter	MODEL	WPC54G V5
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	26 deg. C, 64%RH, 973 hPa	TESTED BY	Rex Huang

	Freq.	Corr.	Reading	g Value		ssion vel	Lir	nit	Mar	gin
No		Factor	[dB ((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.31	45.40	-	45.71	-	65.58	55.58	-19.87	-
2	0.194	0.31	50.03	-	50.34	-	63.85	53.85	-13.51	-
3	0.392	0.33	33.83	-	34.16	-	58.02	48.02	-23.86	-
4	0.787	0.39	33.39	-	33.78		56.00	46.00	-22.22	-
5	6.199	1.03	34.99	-	36.02	-	60.00	50.00	-23.98	-
6	10.008	1.27	32.09	-	33.36	-	60.00	50.00	-26.64	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



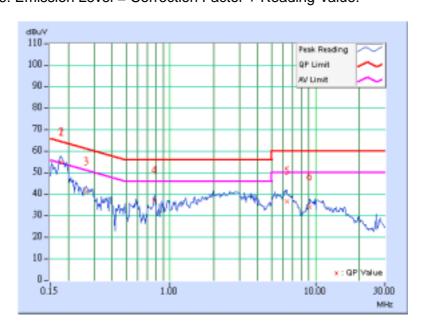


EUT	Wireless-G Network Adapter	MODEL	WPC54G V5
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	26 deg. C, 64%RH, 973 hPa	TESTED BY	Rex Huang

	Freq.	Corr.	Reading Value			sion vel	Limit		Margin	
No		Factor	[dB	(uV)]	[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.178	0.31	53.64	-	53.95	-	64.56	54.56	-10.61	-
2	0.180	0.31	53.78	-	54.09	-	64.48	54.48	-10.39	-
3	0.267	0.32	40.04	-	40.36		61.20	51.20	-20.85	-
4	0.783	0.39	35.97	ı	36.36	-	56.00	46.00	-19.64	-
5	6.363	1.00	35.59	-	36.59	-	60.00	50.00	-23.41	-
6	9.121	1.13	32.85	-	33.98	-	60.00	50.00	-26.02	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL	
HP Spectrum Analyzer	8594E	3710A04861	Sep. 23, 2005	
ADVANTEST Spectrum Analyzer	R3271A	85060311	Jun. 29, 2005	
CHASE RF Pre_Amplifier	CPA9232	1057	Aug. 06, 2005	
HP Pre_Amplifier	8449B	3008A01922	Oct. 13, 2005	
ROHDE & SCHWARZ Test Receiver	ESCS30	100287	Dec. 11, 2004	
CHASE Broadband Antenna	VULB9168	138	May 22, 2005	
Schwarzbeck Horn_Antenna	BBHA9120	D124	Jun. 16, 2005	
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170192	Feb. 16, 2005	
SCHWARZBECK Tunable	UHAP	897	Mar. 07, 2005	
Dipole Antenna	UNAF	091	Wai. 07, 2003	
SCHWARZBECK Tunable	VHAP	880	Mar. 07, 2005	
Dipole Antenna	VIIAF	000	Mai. 07, 2003	
RF Switches (ARNITSU)	CS-201	1565157	Dec. 01, 2004	
RF CABLE (Chaintek) 1GHz-20GHz	SF102	22054-2	Feb. 10. 2005	
RF Cable(RICHTEC)	9913-30M	STCCAB-30M- 1GHz-021	Dec. 01, 2004	
Software	AS60P8	NA	NA	
CHANCE MOST	AT-100	0203	NA	
Antenna Tower	A1-100	0203	INA	
CHANCE MOST Turn Table	TT-100	0203	NA	

Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Tunable Dipole Antenna) and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3. The test was performed in ADT Open Site No. C. 4. The FCC Site Registration No. is 656396. 5. The VCCI Site Registration No. is R-1626.

- 6. The CANADA Site Registration No. is IC 4824-3.
 7. The measurement uncertainty is 3.56 dB, which is calculated as per the document **CISPR 16-4**



4.2.3 TEST PROCEDURES

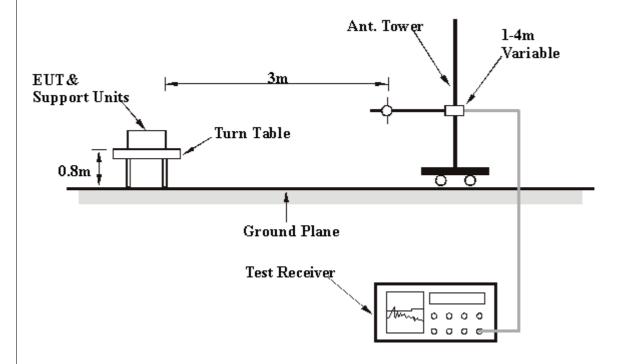
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.



4.2.4 TEST SETUP



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

4.2.5 EUT OPERATING CONDITIONS

Same as 4.1.5.



4.2.6 TEST RESULTS

EUT	Wireless-G Network Adapter	MODEL	WPC54G V5	
MODE	Channel 11	FREQUENCY	20 1000 MH -	
MODE	Onarino 11	RANGE	30-1000 MHz	
MIDUT DOWER		DETECTOR		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	FUNCTION &	Quasi-Peak, 120kHz	
(0.0.1)		BANDWIDTH	Quasi-Peak, 120kHz	
ENVIRONMENTAL	26 deg. C, 60%RH,	TEOTED DV	Davidora	
CONDITIONS	973 hPa	TESTED BY	Rex Huang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level	Limit	Margin	Antenna Height	Table Angle	Raw Value	Correction Factor		
		(dBuV/m)	(dBuV/m)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)		
1	200.00	25.60 QP	43.50	-17.90	2.17 H	19	16.00	9.60		
2	239.97	22.90 QP	46.00	-23.10	2.16 H	336	10.20	12.80		
3	360.03	27.70 QP	46.00	-18.30	2.14 H	14	10.70	17.10		
4	400.01	29.30 QP	46.00	-16.70	1.95 H	331	10.90	18.40		
5	480.04	31.60 QP	46.00	-14.40	1.54 H	7	11.40	20.20		
6	640.01	33.50 QP	46.00	-12.50	1.13 H	40	10.30	23.20		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No. Freq. (MHz)		Emission Level	Limit	Margin	Antenna Height	Table Angle	Raw Value	Correction Factor		
	(IVITZ)	(dBuV/m)	(dBuV/m)	(dB)	(m)	(m) (Degree) (dBuV)		(dB/m)		
1	160.00	24.40 QP	43.50	-19.10	1.00 V	201	13.00	11.40		
2	199.99	28.90 QP	43.50	-14.60	1.00 V	291	19.30	9.60		
3	360.01	27.20 QP	46.00	-18.80	1.00 V	15	10.10	17.10		
4	400.02	28.70 QP	46.00	-17.30	1.00 V	40	10.30	18.40		
5	480.02	31.30 QP	46.00	-14.70	1.81 V	232	11.10	20.20		
6	640.01	32.70 QP	46.00	-13.30	1.45 V	247	9.50	23.20		

- 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



4.2.7 TEST RESULTS - DSSS

EUT	Wireless-G Network Adapter	MODEL	WPC54G V5	
MODE	Channel 1	FREQUENCY	4000 05000M1	
MODE	Onarmor 1	RANGE	1000~25000MHz	
INPUT POWER		DETECTOR	Peak (PK)	
(SYSTEM)	120Vac, 60 Hz	FUNCTION &	Average (AV)	
(STSTEWI)		BANDWIDTH	1 MHz	
ENVIRONMENTAL	26 deg. C, 58%RH,	TESTED DV	Wen Yu	
CONDITIONS	973 hPa	TESTED BY		

	ANTENN	A POLARIT	Y & TES	ST DIST	ANCE: H	ORIZON	ITAL AT 3	S M
No.	Freq.	Emission	Limit	Margin	Antenna	Table	Raw Value	Correction
(MHz)	(MHz)	Level (dBuV/m)	(dBuV/m)	(dB)	Height (m)	Angle (Degree)	(dBuV)	Factor (dB/m)
1	2320.00	54.40 PK	74.00	-19.60	1.24 H	0	23.90	30.40
1	2320.00	47.50 AV	54.00	-6.50	1.24 H	0	17.10	30.40
2	2360.00	52.70 PK	74.00	-21.30	1.24 H	3	22.10	30.60
2	2360.00	43.90 AV	54.00	-10.10	1.24 H	3	13.30	30.60
3	2390.00	50.90 PK	74.00	-23.10	1.50 H	11	17.10	33.80
4	*2412.00	110.30 PK			1.50 H	11	80.40	29.90
4	*2412.00	103.30 AV			1.50 H	11	73.40	29.90
5	4824.00	60.10 PK	74.00	-13.90	1.31 H	338	23.90	36.20
5	4824.00	50.30 AV	54.00	-3.70	1.31 H	338	14.10	36.20
6	7236.00	49.60 PK	74.00	-24.40	1.08 H	9	7.90	41.70

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
No. Freq. (MHz)	Emission Level	Limit (dBuV/m)	Margin	Antenna Height	Table Angle	Raw Value	Correction Factor				
	(dBuV/m)	(ubu v/III)	(dB) (m)	(Degree)	(dBuV)	(dB/m)					
1	2320.00	44.00 PK	74.00	-30.00	1.23 V	172	13.60	30.40			
2	2360.00	41.70 PK	74.00	-32.30	1.17 V	241	11.10	30.60			
3	2390.00	41.00 PK	74.00	-33.00	1.20 V	114	7.20	33.80			
4	*2412.00	100.40 PK			1.20 V	114	70.50	29.90			
4	*2412.00	93.40 AV			1.20 V	114	63.50	29.90			
5	4824.00	54.40 PK	74.00	-19.60	1.35 V	15	18.20	36.20			
5	4824.00	44.40 AV	54.00	-9.60	1.35 V	15	8.10	36.20			
6	7236.00	48.90 PK	74.00	-25.10	1.19 V	80	7.20	41.70			

- 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. The limit value is defined as per 15.247
- 6. " * ": Fundamental frequency



EUT Wireless-G Network Adapter		MODEL	WPC54G V5
MODE	Channel 6	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	26 deg. C, 58%RH, 973 hPa	TESTED BY	Wen Yu

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	2360.00	53.90 PK	74.00	-20.10	1.03 H	350	23.30	30.60		
1	2360.00	44.20 AV	54.00	-9.80	1.03 H	350	13.60	30.60		
2	*2437.00	112.70 PK	74.00			9	82.70	30.00		
2	*2437.00	105.80 AV	54.00			9	75.80	30.00		
3	4874.00	54.90 PK	74.00	-19.10	1.42 H	338	18.40	36.50		
3	4874.00	45.10 AV	54.00	-8.90	1.42 H	338	8.60	36.50		
4	7311.00	49.30 PK	74.00	-24.70	1.15 H	38	7.50	41.80		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor		
	(1011 12)	(dBuV/m)	(ubu v/III)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)		
1	2360.00	43.30 PK	74.00	-30.70	1.23 V	258	12.70	30.60		
2	*2437.00	102.90 PK			1.19 V	114	72.90	30.00		
2	*2437.00	95.80 AV			1.19 V	114	65.80	30.00		
3	4874.00	54.20 PK	74.00	-19.80	1.20 V	95	17.80	36.50		
3	4874.00	43.70 AV	54.00	-10.30	1.20 V	95	7.20	36.50		
4	7311.00	48.60 PK	74.00	-25.40	1.66 V	238	6.90	41.80		

- 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. The limit value is defined as per 15.247
- 6. " * ": Fundamental frequency



EUT	Wireless-G Network Adapter	MODEL	WPC54G V5	
MODE	Channel 11	FREQUENCY RANGE	1000~25000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz	
ENVIRONMENTAL CONDITIONS	26 deg. C, 58%RH, 973 hPa	TESTED BY	Wen Yu	

	ANTENN	NA POLAR	ITY & TE	ST DIS	TANCE:	HORIZO	NTAL AT	3 M
No.	Freq.	Emission Level	Limit	Margin	Antenna	Table	Raw Value	Correction Factor
NO.	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	Height (m)	Angle (Degree)	(dBuV)	(dB/m)
1	2360.00	54.20 PK	74.00	-19.80	1.25 H	356	23.50	30.60
1	2360.00	44.60 AV	54.00	-9.40	1.25 H	356	14.00	30.60
2	*2462.00	112.60 PK			1.19 H	9	82.60	30.10
2	*2462.00	105.50 AV			1.19 H	9	75.40	30.10
3	2483.50	54.60 PK	74.00	-19.40	1.19 H	9	24.40	30.10
3	2483.50	47.40 AV	54.00	-6.60	1.19 H	9	17.30	30.10
4	4924.00	52.20 PK	74.00	-21.80	1.08 H	308	15.50	36.70
4	4924.00	41.50 AV	54.00	-12.50	1.08 H	308	4.80	36.70
5	7386.00	49.00 PK	74.00	-25.00	1.30 H	21	7.20	41.80

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No. Freq. (MHz)	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction				
	Level (dBuV/m)	(dBuV/m)	(dB)	Height (m)	Angle (Degree)	Value (dBuV)	Factor (dB/m)					
1	2360.00	42.70 PK	74.00	-31.30	1.19 V	242	12.10	30.60				
2	*2462.00	104.30 PK			1.22 V	116	74.20	30.10				
2	*2462.00	97.10 AV			1.22 V	116	67.00	30.10				
3	2483.50	46.30 PK	74.00	-27.70	1.22 V	116	16.10	30.10				
4	4924.00	50.50 PK	74.00	-23.50	1.30 V	357	13.80	36.70				
5	7386.00	48.70 PK	74.00	-25.30	1.56 V	288	6.90	41.80				

- Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



4.2.8 TEST RESULTS -OFDM

EUT	Wireless-G Network Adapter	MODEL	WPC54G V5	
MODE	Channel 1	FREQUENCY RANGE	1000~25000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz	
ENVIRONMENTAL CONDITIONS	26 deg. C, 58%RH, 973 hPa	TESTED BY	Wen Yu	

	ANTENN	A POLARIT	Y & TES	T DIST	ANCE: H	IORIZON	ITAL AT 3	ВМ
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2320.00	52.80 PK	74.00	-21.20	1.26 H	0	22.30	30.40
1	2320.00	46.30 AV	54.00	-7.70	1.26 H	0	15.90	30.40
2	2360.00	53.10 PK	74.00	-20.90	1.24 H	10	22.50	30.60
2	2360.00	43.10 AV	54.00	-10.90	1.24 H	10	12.50	30.60
3	2390.00	54.10 PK	74.00	-19.90	1.23 H	21	20.30	33.80
3	2390.00	46.40 AV	54.00	-7.60	1.23 H	21	12.60	33.80
4	*2412.00	105.30 PK			1.23 H	21	75.40	29.90
4	*2412.00	97.60 AV			1.23 H	21	67.80	29.90
5	4824.00	54.50 PK	74.00	-19.50	1.30 H	339	18.30	36.20
5	4824.00	42.90 AV	54.00	-11.10	1.30 H	339	6.70	36.20
6	7236.00	48.80 PK	74.00	-25.20	1.22 H	179	7.10	41.70

	ANTEN	NA POLAR	ITY & TE	ST DIS	TANCE:	VERTIC	AL AT 3 N	И
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	Raw Value	Correction Factor
1	2320.00	43.60 PK	74.00	-30.40	(m) 1.20 V	(Degree) 177	(dBuV) 13.20	(dB/m) 30.40
2	2360.00	42.40 PK	74.00	-31.60	1.15 V	240	11.80	30.60
3	2390.00	38.30 PK	74.00	-35.70	1.33 V	45	4.50	33.80
4	*2412.00	89.50 PK			1.33 V	45	59.60	29.90
4	*2412.00	81.80 AV			1.33 V	45	51.90	29.90
5	4824.00	50.00 PK	74.00	-24.00	1.33 V	255	13.80	36.20
6	7236.00	48.80 PK	74.00	-25.20	1.17 V	21	7.10	41.70

- 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. The limit value is defined as per 15.247
- 6. " * ": Fundamental frequency



EUT	Wireless-G Network Adapter	MODEL	WPC54G V5
MODE	Channel 6	FREQUENCY RANGE	1000~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	26 deg. C, 58%RH, 973 hPa	TESTED BY	Wen Yu

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)			
1	2360.00	53.60 PK	74.00	-20.40	1.22 H	21	22.90	30.60			
1	2360.00	43.50 AV	54.00	-10.50	1.22 H	21	12.90	30.60			
2	*2437.00	107.20 PK			1.15 H	2	77.20	30.00			
2	*2437.00	98.30 AV			1.15 H	2	68.30	30.00			
3	4874.00	53.70 PK	74.00	-20.30	1.33 H	341	17.30	36.50			
3	4874.00	41.90 AV	54.00	-12.10	1.33 H	341	5.40	36.50			
4	7311.00	49.30 PK	74.00	-24.70	1.23 H	283	7.60	41.80			

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction				
No.	(MHz)	Level	(dBuV/m)	_	Height	Angle	Value	Factor				
(IVITZ)	(dBuV/m)	(ubu v/III)	BuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)					
1	2360.00	44.00 PK	74.00	-30.00	1.20 V	241	13.30	30.60				
2	*2437.00	94.30 PK			1.25 V	95	64.30	30.00				
2	*2437.00	85.80 AV			1.25 V	95	55.80	30.00				
3	4874.00	49.10 PK	74.00	-24.90	1.35 V	259	12.60	36.50				
4	7311.00	48.70 PK	74.00	-25.30	1.20 V	87	7.00	41.80				

- 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. The limit value is defined as per 15.247
- 6. " * ": Fundamental frequency



EUT	Wireless-G Network Adapter		WPC54G V5	
MODE	Channel 11	FREQUENCY RANGE	1000~25000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz	
ENVIRONMENTAL CONDITIONS	26 deg. C, 58%RH, 973 hPa	TESTED BY	Wen Yu	

	ANTENN	A POLARIT	Y & TES	ST DIST	ANCE: H	ORIZON	ITAL AT 3	ВМ
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2360.00	53.40 PK	74.00	-20.60	1.25 H	17	22.80	30.60
1	2360.00	43.40 AV	54.00	-10.60	1.25 H	17	12.80	30.60
2	*2462.00	106.30 PK			1.18 H	6	76.20	30.10
2	*2462.00	98.30 AV			1.18 H	6	68.20	30.10
3	2483.50	56.20 PK	74.00	-17.80	1.18 H	6	26.10	30.10
3	2483.50	48.20 AV	54.00	-5.80	1.18 H	6	18.10	30.10
4	4924.00	45.90 PK	74.00	-28.10	1.00 H	73	9.30	36.70
5	7386.00	48.80 PK	74.00	-25.20	1.28 H	286	7.00	41.80

	ANTEN	NA POLAR	ITY & TE	ST DIS	TANCE:	VERTIC	AL AT 3 N	И
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor
(IVIFIZ)	(dBuV/m)	(dbd v/III)	V/III) (UB)	(m)	(Degree)	(dBuV)	(dB/m)	
1	2360.00	43.40 PK	74.00	-30.60	1.17 V	248	12.80	30.60
2	*2462.00	98.10 PK			1.20 V	115	68.10	30.10
2	*2462.00	89.80 AV			1.20 V	115	59.80	30.10
3	2483.50	48.10 PK	74.00	-25.90	1.20 V	115	18.00	30.10
4	4924.00	45.30 PK	74.00	-28.70	1.01 V	359	8.60	36.70
5	7386.00	49.00 PK	74.00	-25.00	1.15 V	28	7.10	41.80

- 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. The limit value is defined as per 15.247
- 6. " * ": Fundamental frequency



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 27, 2004

NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100 kHz VBW. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

4.3.4 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

4.3.5 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

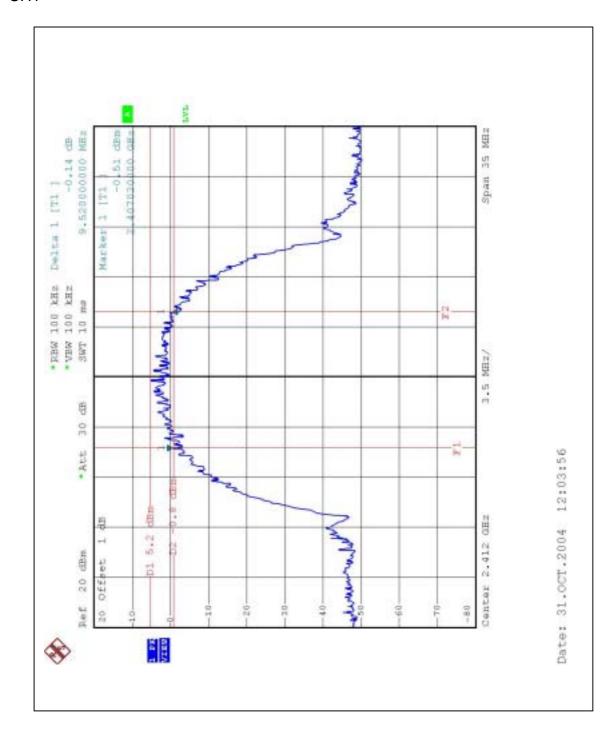


4.3.6 TEST RESULTS-DSSS

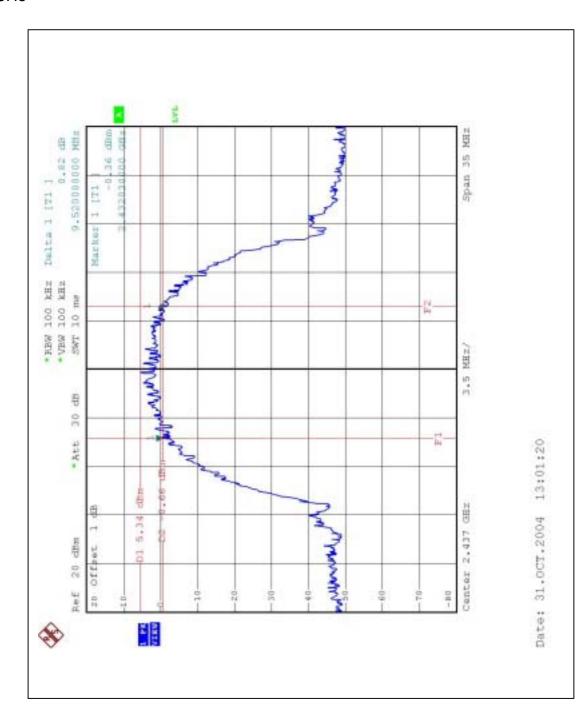
EUT	Wireless-G Network Adapter		
MODEL	WPC54G V5	ENVIRONMENTAL	27 deg. C, 68%RH,
WODEL		CONDITIONS	973 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Sky Liao

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	9.52	0.5	PASS
6	2437	9.52	0.5	PASS
11	2462	9.52	0.5	PASS

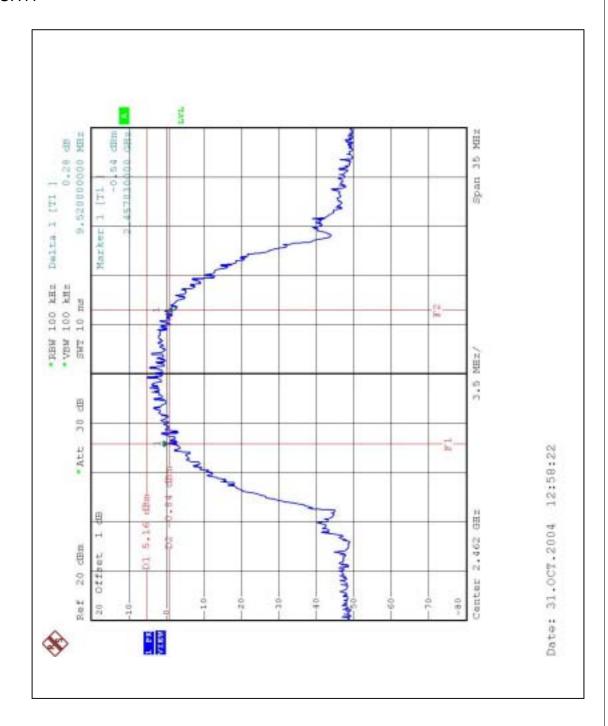












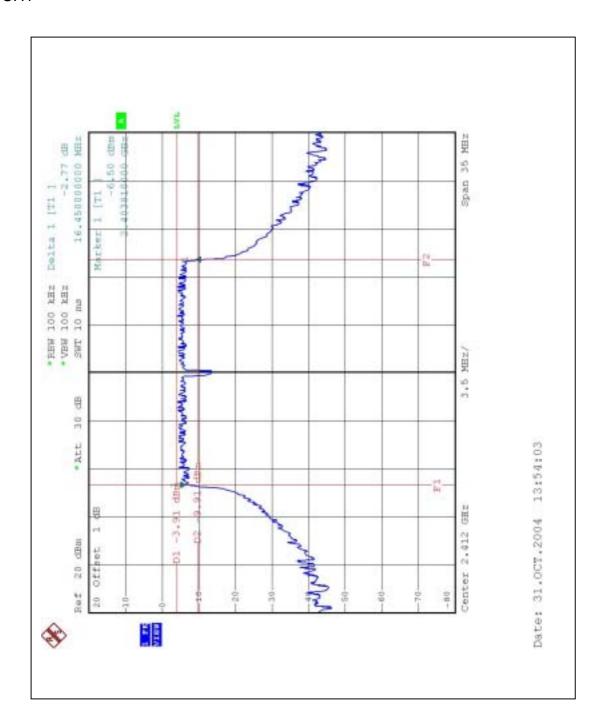


4.3.7 TEST RESULTS-OFDM

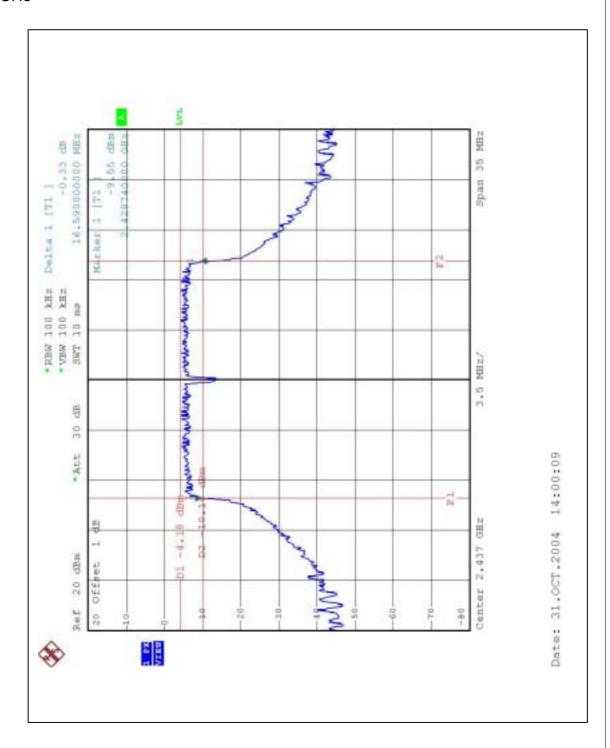
EUT	Wireless-G Network Adapter		
MODEL	WPC54G V5	ENVIRONMENTAL	27 deg. C, 68%RH,
WODEL		CONDITIONS	973 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Sky Liao

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.45	0.5	PASS
6	2437	16.59	0.5	PASS
11	2462	16.59	0.5	PASS

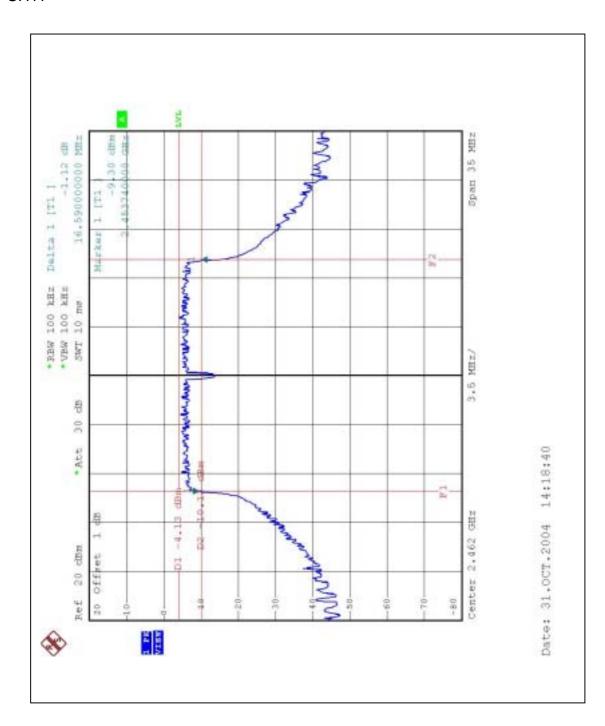














4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 27, 2004
Agilent SIGNAL GENERATOR	E8257C	MY43320668	Jan. 1, 2005
TEKTRONIX OSCILLOSCOPE	TDS 220	B027241	Jun. 30, 2005
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE:

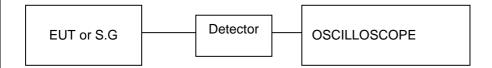
The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.4.3 TEST PROCEDURES

- 1. A detector was used on the output port of the EUT. An oscilloscope was used to read the peak response of the detector.
- 2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
- 3. Adjusted the power to have the same peak reading on oscilloscope. Record the power level.

4.4.4 TEST SETUP



4.4.5 EUT OPERATING CONDITIONS

Same as Item 4.3.5



4.4.6 TEST RESULTS - DSSS

EUT	Wireless-G Network Adapter		
MODEL	WPC54G V5	ENVIRONMENTAL	27 deg. C, 68%RH,
WODLL	WFC34G V3	CONDITIONS	973 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Sky Liao

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.73	30	PASS
6	2437	15.51	30	PASS
11	2462	15.94	30	PASS



4.4.7 TEST RESULTS - OFDM

EUT	Wireless-G Network Adapter		
MODEL	WPC54G V5	ENVIRONMENTAL	27 deg. C, 68%RH,
WODLE	WF 0340 V3	CONDITIONS	973 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Sky Liao

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.38	30	PASS
6	2437	15.15	30	PASS
11	2462	15.07	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 27, 2004

NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

4.5.4 TEST SETUP



4.5.5 EUT OPERATING CONDITIONS

Same as 4.3.5

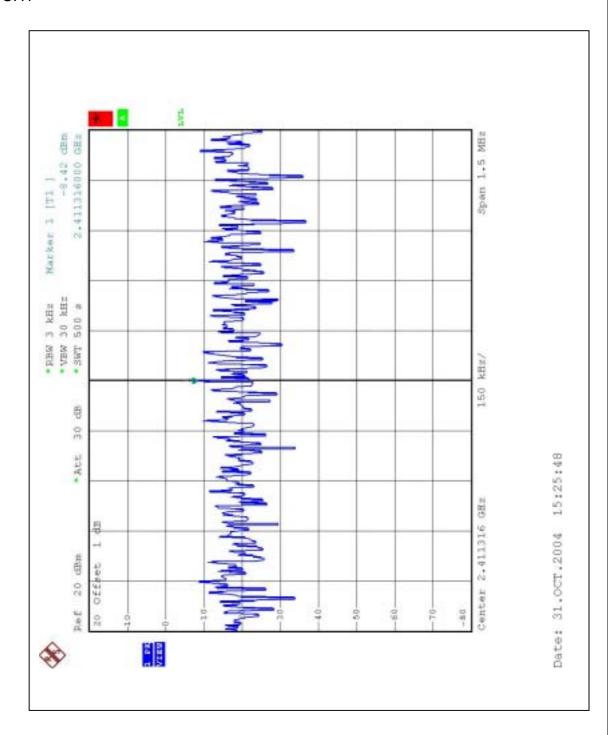


4.5.6 TEST RESULTS-DSSS

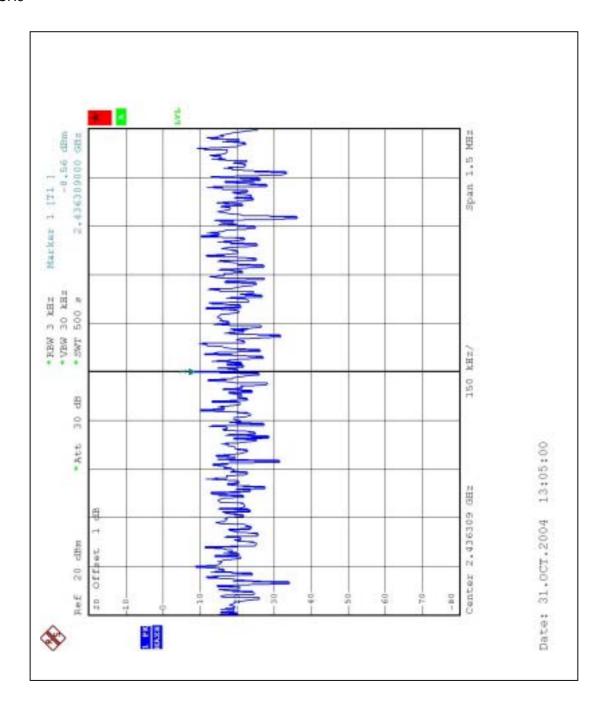
EUT	Wireless-G Network Adapter			
MODEL	WPC54G V5 ENVIRONMENTAL 27 deg. C, 689			
WODLE	WF C34G V3	CONDITIONS	973 hPa	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Sky Liao	

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-8.42	8	PASS
6	2437	-8.56	8	PASS
11	2462	-7.94	8	PASS

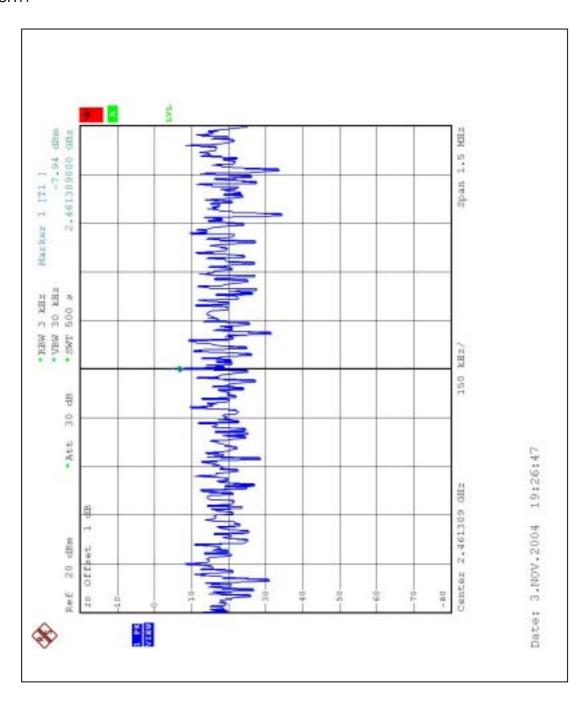












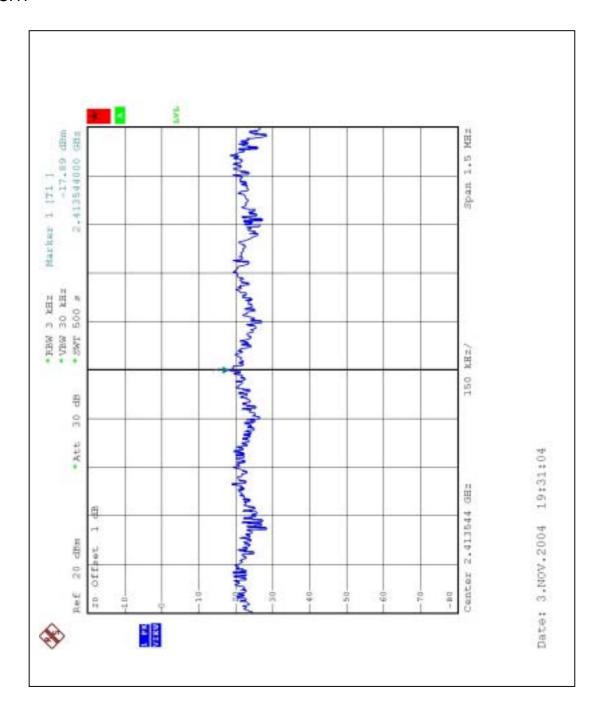


4.5.7 TEST RESULTS-OFDM

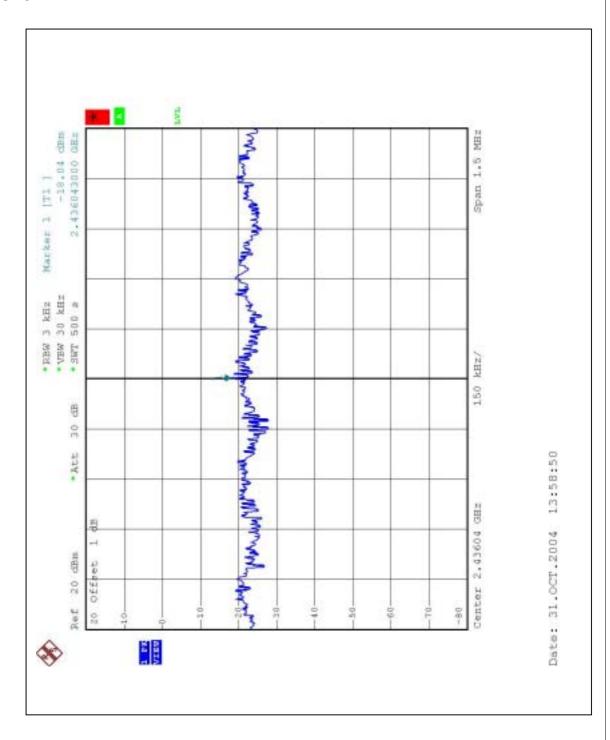
EUT	Wireless-G Network Adapter		
MODEL	WPC54G V5	ENVIRONMENTAL	27 deg. C, 68%RH,
WODLE	W1 C34G V3	CONDITIONS	973 hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Sky Liao

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-17.89	8	PASS
6	2437	-18.04	8	PASS
11	2462	-18.29	8	PASS

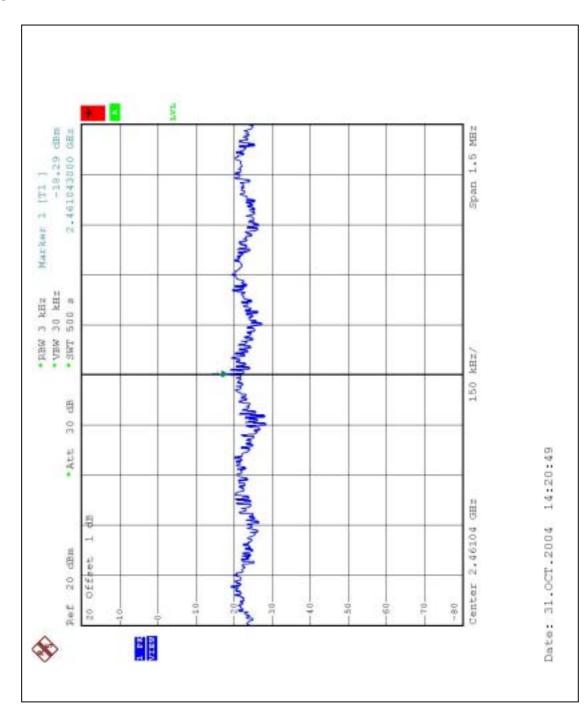














4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 1MHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 27, 2004

NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set RBW spectrum analyzer to 1 MHz and set VBW spectrum analyzer to 10 Hz with suitable frequency span including 1 MHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 EUT OPERATING CONDITION

Same as Item 4.3.5



4.6.5 TEST RESULTS - DSSS

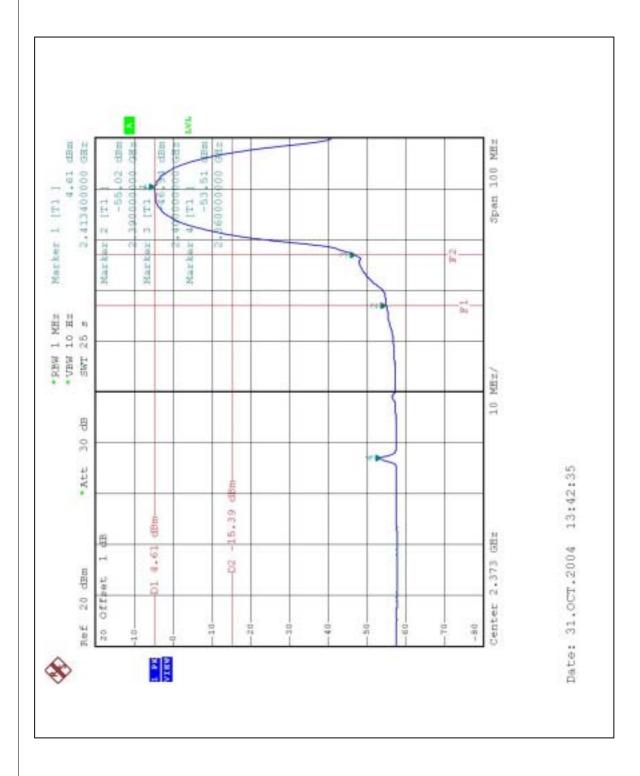
The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (1): The band edge emission plot on the following first page shows 59.63dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 103.3dBuV/m, so the maximum field strength in restrict band is 103.3-59.63=43.67dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 58.49dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2. is 105.5dBuV/m, so the maximum field strength in restrict band is 105.5-58.49=47.01dBuV/m which is under 54 dBuV/m limit.











4.6.6 TEST RESULTS - OFDM

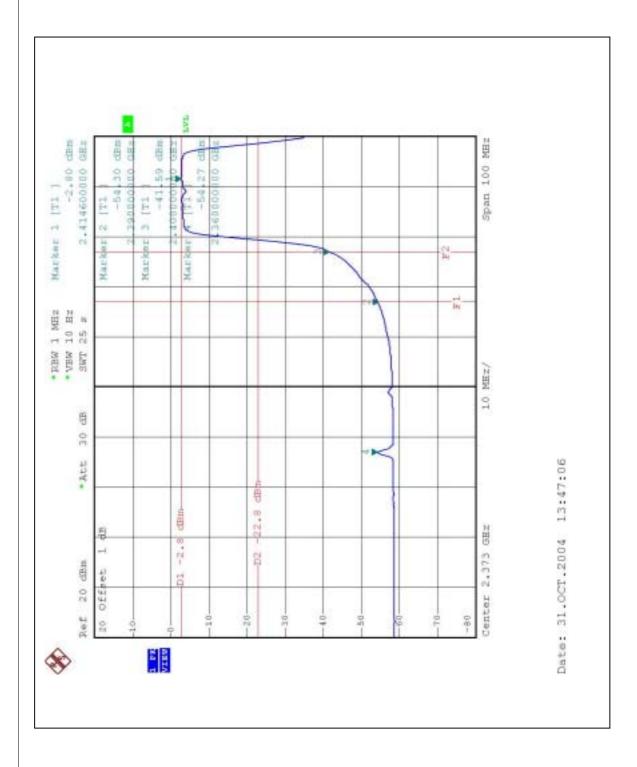
The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

Note - The delta method is only used up to 2 MHz away from the restricted bandage, The radiated emissions which located in other restricted frequency band, the result, please refer to 4.2.

NOTE (1): The band edge emission plot on the following first page shows 51.5dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2. is 97.6dBuV/m, so the maximum field strength in restrict band is 97.6-51.5=46.1dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 50.36dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2. is 98.3dBuV/m, so the maximum field strength in restrict band is 98.3-50.36=47.94dBuV/m which is under 54 dBuV/m limit.











4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Printed Antenna without connector. The maximum Gain of the antenna is 2.0dBi.



5 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST







RADIATED EMISSION TEST







6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA FCC, NVLAP, UL, A2LA

Germany TUV Rheinland

Japan VCCI Norway NEMKO

Canada INDUSTRY CANADA, CSA

R.O.C. CNLA, BSMI, DGT

Netherlands Telefication

Singapore PSB, GOST-ASIA (MOU)

Russia CERTIS (MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab: Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26052943 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3185050

Email: service@adt.com.tw
Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.