

FCC TEST REPORT

REPORT NO.: RF910529R03A

MODEL NO.: WE302

RECEIVED: May 29, 2002

TESTED: June 7 ~ June 12, 2002

APPLICANT: BROMAX COMMUNICATIONS, INC.

ADDRESS: No. 20, Kuang Fu Road, Hsin Chu Industrial

Park, Hu Kou, Hsin Chu, Taiwan, R.O.C.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei, Taiwan,

R.O.C.

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CERTIFICATION

PRODUCT: PCMCIA 11M Wireless LAN Card

MODEL NO.: WE302

BRAND: **Bromax**

APPLICANT: BROMAX COMMUNICATIONS, INC.

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

ANSI C63.4-1992

We, Advance Data Technology Corporation, hereby certify that one sample of the designation has been tested in our facility from June 7 ~ June 12, 2002, The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

Rennie Wang

APPROVED BY: Dr. Alan Lane

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				
	AC Power Conducted Emission		Meet the requirement of limit				
15.207	Limit: 48dBuV	PASS	Minimum passing margin is –16.37dBuV at 3.58MHz				
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				
	Transmitter Padiated Emissions		Meet the requirement of limit				
15.247(c)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Minimum passing margin is –8.4dBuV at 2374.2MHz				
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	PCMCIA 11M Wireless LAN Card
MODEL NO.	WE302
POWER SUPPLY	5.0VDC from host equipment
MODULATION TYPE	BPSK, QPSK, CCK
RADIO TECHNOLOGY	DSSS
TRANSFER RATE	1/2/5.5/11Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	18.45dBm
ANTENNA TYPE	Patch Antenna
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

- **1.** This EUT is designed with two outer appearances that are different from their plastic cover only. Please refer to EUT Photo.
- **2.** For more detailed features description, please refer to the manufacturer's specifications or User's Manual.

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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.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a PCMCIA 11M Wireless LAN Card. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR 47 Part 15, Subpart C. (15.247) ANSI C63.4: 1992

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 FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

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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	PP01L	TW-09C748- 12800-19O- B220	FCC DoC APPROVED
2	MODEM	ACEEX	1414	980020503	IFAXDM1414
3	PRINTER	EPSON	LQ-300+	DCGY017096	FCC DoC APPROVED

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame,
	w/o core.
	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic
3	frame, w/o core

NOTE: All power cords of the above support units are non shielded (1.8m).



4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

	Class B (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.45 - 30	48	-	

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. 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 Test	ESCS30	834115/016	Mar. 3, 2003
Receiver	E3C330	034113/010	Iviai. 3, 2003
ROHDE & SCHWARZ Artificial	ESH3-Z5	847265/023	lon 10 2002
Mains Network (For EUT)	E3H3-Z3	047200/023	Jan. 10, 2003
* ROHDE & SCHWARZ	ENY41	838119/028	Dog 10, 2002
4-wire ISN	CINT 41	030119/020	Dec. 10, 2002
* ROHDE & SCHWARZ	ENY22	837497/018	Dog 10, 2002
2-wire ISN	EINT 22	03/49//010	Dec. 10, 2002
EMCO L.I.S.N.	3825/2	9504-2359	July 10, 2002
(For peripherals)	3023/2	9504-2559	July 10, 2002
Software	Cond-V2L	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C03.01	July 11, 2002
Terminator (For EMCO LISN)	NA	E1-01-300	Feb. 20, 2003
Terminator (For EMCO LISN)	NA	E1-01-301	Feb. 20, 2003
Shielded Room	Site 3	ADT-C03	NA
VCCI Site Registration No.	Site 3	C-274	NA

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.
- 3. "*": These equipment are used for conducted telecom port test only (if tested).



4.1.3 TEST PROCEDURES

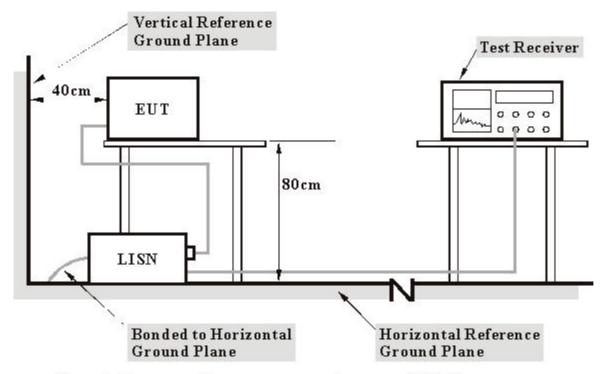
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 450 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 DEVIATION FROM TEST STANDARD

No deviation



4.1.5 TEST SETUP



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

2. Both of LISNs (AMN) 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.



4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT to a computer system placed on a testing table.
- The computer system ran a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. The computer system sent "H" messages to its screen.
- d. The computer system sent "H" messages to modem.
- e. The computer system sent "H" messages to printer and the printer prints them on paper.

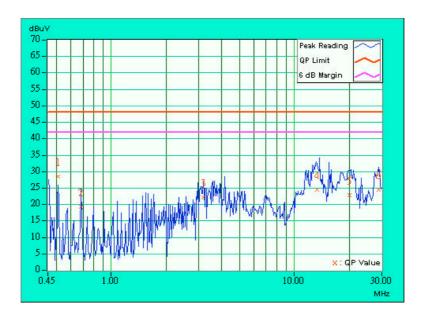


4.1.7 **TEST RESULTS**

EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny	y Yao

No	Freq.	Corr. Factor	Readin	_	Emissio	on Level (uV)]	Lir [dB (nit [uV)]	Mar (dl	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.513	0.12	27.99	1	28.11	-	48.00	-	-19.89	-
2	0.684	0.15	18.71	ı	18.86	ı	48.00	-	-29.14	-
3	3.188	0.26	21.55	1	21.81	1	48.00	-	-26.19	-
4	13.320	0.47	24.03	ı	24.50	ı	48.00	-	-23.50	-
5	19.926	0.60	22.29	1	22.89	1	48.00	-	-25.11	-
6	28.699	0.50	23.93	1	24.43	1	48.00	-	-23.57	-

- QP. and AV. are abbreviations of quasi-peak and average individually.
 "-": NA
 The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Emission Level = Reading Value + Correction Factor.

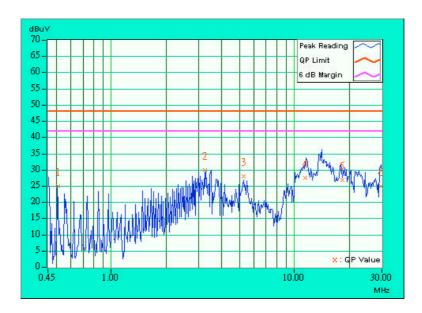




EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny	/ Yao

No	Freq.	Corr. Factor		g Value (uV)]	Emissio	on Level (uV)]	Lir [dB (nit (uV)]	Mar (d	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.513	0.12	23.53	-	23.65	-	48.00	1	-24.35	-
2	3.230	0.26	28.62	•	28.88	ı	48.00	•	-19.12	-
3	5.273	0.32	26.61	1	26.93	1	48.00	1	-21.07	-
4	11.457	0.46	26.15	-	26.61	-	48.00	1	-21.39	-
5	18.184	0.79	25.50	1	26.29	1	48.00	1	-21.71	-
6	29.609	1.37	23.58	-	24.95	-	48.00	1	-23.05	-

- QP. and AV. are abbreviations of quasi-peak and average individually.
 "-": NA
- The emission levels of other frequencies were very low against the limit.
 Margin value = Emission level Limit value
 Emission Level = Reading Value + Correction Factor.

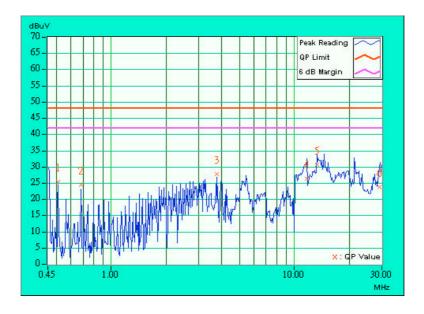




EUT	PCMCIA 11M Wireless LAN Card		WE302
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny	y Yao

No	Freq.	Corr. Factor	Readin	_	Emissio	n Level (uV)]	Lir [dB (Mar (d	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.513	0.12	24.95	-	25.07	ı	48.00	-	-22.93	-
2	0.684	0.15	24.00	-	24.15	ı	48.00	-	-23.85	-
3	3.750	0.29	27.26	-	27.55	-	48.00	-	-20.45	-
4	11.660	0.43	25.87	-	26.30	-	48.00	-	-21.70	-
5	13.309	0.47	30.07	-	30.54	-	48.00	-	-17.46	-
6	28.996	0.50	23.32	-	23.82	-	48.00	-	-24.18	-

- QP. and AV. are abbreviations of quasi-peak and average individually.
 "-": NA
 The emission levels of other frequencies were very low against the limit.
 Margin value = Emission level Limit value
 Emission Level = Reading Value + Correction Factor.

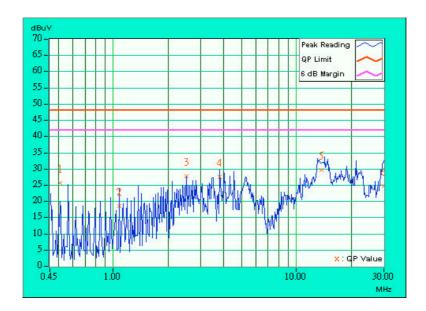




EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302	
MODE	Channel 6	6dB BANDWIDTH	9 kHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)	
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny	Yao	

No	No Freq.		Reading Value [dB (Uv)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.513	0.12	24.40	1	24.52	-	48.00	1	-23.48	-
2	1.074	0.20	17.30	ı	17.50	ı	48.00	•	-30.50	-
3	2.500	0.23	26.31		26.54	-	48.00	-	-21.46	-
4	3.797	0.29	26.14	ı	26.43	ı	48.00	•	-21.57	-
5	13.672	0.55	28.24	1	28.79	1	48.00	1	-19.21	-
6	29.852	1.39	23.40	-	24.79	-	48.00	•	-23.21	-

- QP. and AV. are abbreviations of quasi-peak and average individually.
 "-": NA
- The emission levels of other frequencies were very low against the limit.
 Margin value = Emission level Limit value
 Emission Level = Reading Value + Correction Factor.

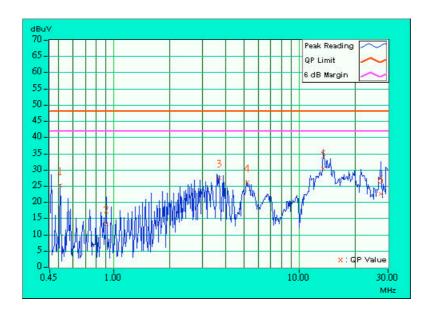




EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny	y Yao

No	Freq.	Corr. Factor	Readin	_	Emissio	on Level (uV)]	Lir [dB (Mar (dl	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.513	0.12	24.71	1	24.83	-	48.00	-	-23.17	-
2	0.915	0.19	13.00	ı	13.19	ı	48.00	-	-34.81	-
3	3.691	0.28	26.96	1	27.24	1	48.00	-	-20.76	-
4	5.230	0.32	25.65	ı	25.97	ı	48.00	-	-22.03	-
5	13.418	0.47	29.81	1	30.28	1	48.00	-	-17.72	-
6	27.516	0.50	22.11	-	22.61	-	48.00	-	-25.39	-

- QP. and AV. are abbreviations of quasi-peak and average individually.
 "-": NA
- The emission levels of other frequencies were very low against the limit.
 Margin value = Emission level Limit value
 Emission Level = Reading Value + Correction Factor.

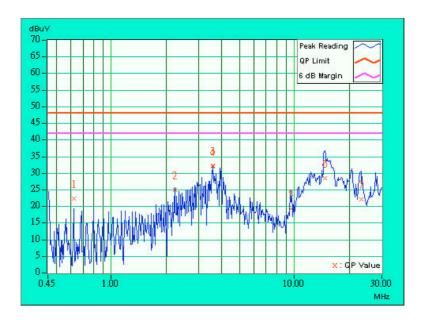




EUT	PCMCIA 11M Wireless LAN Card		WE302	
MODE	Channel 11	6dB BANDWIDTH	9 kHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)	
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao		

No	Freq.	Corr. Factor	Readin	_	Emissio		Lir [dB (Mar (dl	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.622	0.14	21.36	-	21.50	ı	48.00	-	-26.50	-
2	2.215	0.21	24.07	-	24.28	ı	48.00	-	-23.72	-
3	3.578	0.28	31.35	-	31.63	-	48.00	-	-16.37	-
4	3.578	0.28	31.07	-	31.35	-	48.00	-	-16.65	-
5	9.594	0.39	18.38	-	18.77	-	48.00	-	-29.23	-
6	14.605	0.58	27.60	-	28.18	-	48.00	-	-19.82	-
7	23.063	0.96	21.08	-	22.04	-	48.00	-	-25.96	-

- 1. QP. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": NA
- The emission levels of other frequencies were very low against the limit.
 Margin value = Emission level Limit value
- 5. Emission Level = Reading Value + Correction Factor.





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	Field Strength of Fundamental				
(MHz)	uV/m	dBuV/m			
30-88	100	40.0			
88-216	150	43.5			
216-960	200	46.0			
Above 960	500	54.0			

- 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	8590L	3544A01176	May 13, 2003
* HP Preamplifier	8447D	2944A08485	Oct. 30, 2002
* HP Preamplifier	8449B	3008A01201	Dec. 06, 2002
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2002
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 27, 2003
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2002
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 2, 2002
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 6, 2002
* EMCO Horn Antenna	3115	9312-4192	April 9, 2003
* EMCO Turn Table	1060	1115	NA
* SHOSHIN Tower	AP-4701	A6Y005	NA
* Software	AS61D4	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Aug. 2, 2002
* TIMES RF cable	LMR-600	CABLE-ST5-01	Aug. 2, 2002
Open Field Test Site	Site 5	ADT-R05	July 28, 2002
VCCI Site Registration No.	Site 5	R-1039	NA

NOTE: 1.The measurement uncertainty is less than +/- 3.0dB, 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.
- 3. "*" = These equipment are used for the final measurement.
- 4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.



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:

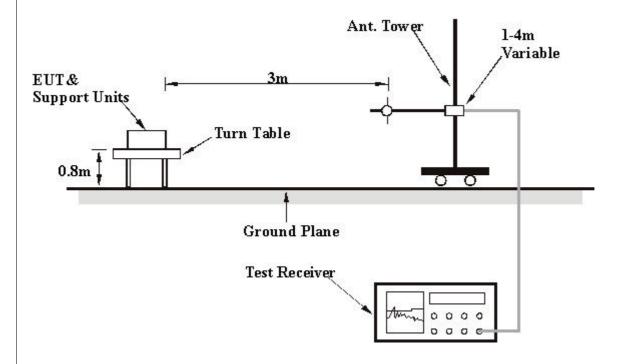
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 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 DEVIATION FROM TEST STANDARD

No deviation



4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.



4.2.7 TEST RESULTS

EUT	PCMCIA 11M Wireless LAN Card		WE302	
MODE	Channel 11	FREQUENCY	30-1000 MHz	
mode.	Ondrinor 11	RANGE		
INPUT POWER	120Vac, 60 Hz	DETECTOR	Quasi-Peak	
(SYSTEM)	120 vac, 60 Hz	FUNCTION		
ENVIRONMENTAL	30 deg. C, 50 % RH,	TESTED BY: Bunny Yao		
CONDITIONS	1050 hPa			

	ANT	ENNA F	POLARI	TY &	TEST [DISTAN	NCE: H	HORIZO	NTAI	_ AT 3 N	Л
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor
	(1711 12)	(dBuV/m)	(ubu v/III)	(ub)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)
1	132.00	20.8 QP	43.50	-22.70	1.61H	3	8.40	11.16	1.24	0.00	-12.40
2	176.00	26.8 QP	43.50	-16.70	1.67H	140	16.35	9.08	1.37	0.00	-10.45
3	220.00	24.6 QP	46.00	-21.40	1.24H	0	12.96	10.12	1.53	0.00	-11.65
4	264.00	26.3 QP	46.00	-19.70	1.57H	231	11.68	12.89	1.73	0.00	-14.62
5	308.00	21.6 QP	46.00	-24.40	1.32H	115	6.30	13.38	1.92	0.00	-15.30
6	352.00	23.8 QP	46.00	-22.20	1.41H	210	7.37	14.31	2.12	0.00	-16.43
7	396.00	24.1 QP	46.00	-21.90	1.00H	5	5.98	15.96	2.17	0.00	-18.12
8	440.00	22.3 QP	46.00	-23.70	1.09H	116	3.68	16.32	2.31	0.00	-18.62
9	484.00	22.4 QP	46.00	-23.60	1.86H	187	3.00	16.96	2.44	0.00	-19.40
10	528.00	28.3 QP	46.00	-17.70	1.85H	67	8.06	17.62	2.62	0.00	-20.24
11	572.00	23.5 QP	46.00	-22.50	1.40H	211	2.46	18.25	2.79	0.00	-21.04
12	616.00	25.5 QP	46.00	-20.50	1.46H	80	3.77	18.82	2.91	0.00	-21.73
13	924.00	22.0 QP	46.00	-24.00	1.19H	326	-2.72	21.00	3.71	0.00	-24.72

- 1. Emission level = Raw value Correction Factor
- 2. Correction Factor = Pre-Amp. Factor Ant. Factor Cable loss (Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
- 3. Margin value = Emission level Limit value
- 4. The other emission levels were very low against the limit.



EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302
MODE	Channel 11	FREQUENCY	30-1000 MHz
WODL	Charmer 11	RANGE	30-1000 MHZ
INPUT POWER	120Vac, 60 Hz	DETECTOR	Overi Beek
(SYSTEM)	120 vac, 60 112	FUNCTION	Quasi-Peak
ENVIRONMENTAL	30 deg. C, 50 % RH,	TESTED BY: Bunny `	Yao
CONDITIONS	1050 hPa		

	AN	ITENNA	POLA	RITY 8	& TEST	DIST	NCE:	VERTI	CAL	AT 3 M	
	Frea.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor
	((dBuV/m)	(4241,)	(==)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)
1	132.00	13.9 QP	43.50	-29.60	1.12H	3	1.50	11.16	1.24	0.00	-12.40
2	176.00	21.9 QP	43.50	-21.60	1.00H	209	11.45	9.08	1.37	0.00	-10.45
3	220.00	22.6 QP	46.00	-23.40	1.32H	105	10.96	10.12	1.53	0.00	-11.64
4	264.00	26.4 QP	46.00	-19.60	1.57H	109	11.78	12.89	1.73	0.00	-14.62
5	308.00	19.6 QP	46.00	-26.40	1.57H	34	4.30	13.38	1.92	0.00	-15.31
6	352.00	26.4 QP	46.00	-19.60	1.63H	4	9.97	14.31	2.12	0.00	-16.43
7	396.00	21.6 QP	46.00	-24.40	1.64H	157	3.48	15.96	2.17	0.00	-18.12
8	440.00	22.1 QP	46.00	-23.90	1.22H	145	3.48	16.32	2.31	0.00	-18.62
9	484.00	24.3 QP	46.00	-21.70	1.29H	25	4.90	16.96	2.44	0.00	-19.40
10	484.00	24.2 QP	46.00	-21.80	1.58H	94	4.80	16.96	2.44	0.00	-19.40
11	528.00	26.7 QP	46.00	-19.30	1.54H	305	6.46	17.62	2.62	0.00	-20.24
12	616.00	25.7 QP	46.00	-20.30	1.83H	144	3.97	18.82	2.91	0.00	-21.73
13	660.00	25.0 QP	46.00	-21.00	1.52H	227	2.68	19.25	3.07	0.00	-22.32
14	924.00	20.0 QP	46.00	-26.00	1.05H	146	-4.72	21.00	3.71	0.00	-24.72

- 1. Emission level = Raw value Correction Factor
- 2. Correction Factor = Pre-Amp. Factor Ant. Factor Cable loss (Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
- 3. Margin value = Emission level Limit value
- 4. The other emission levels were very low against the limit.



EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 50 % RH, 1050 hPa	TESTED BY: Bun	ny Yao

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M												
	Erog	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction		
No.	Freq.	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor		
	(MHz)	(dBuV/m)	(ubuv/III)	(ub)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)		
1	2374.20	45.6 AV	54.00	-8.40	1.06H	251	48.60	26.90	4.98	34.90	3.02		
2	2374.20	54.5 PK	74.00	-19.5	1.06H	251	57.50	26.90	4.98	34.90	3.02.		
3	*2412.00	110.4 PK	-	-	1.04H	249	78.20	27.11	5.10	0.00	-32.21		
4	*2412.00	103.8 AV	•	-	1.04H	249	71.60	27.11	5.10	0.00	-32.21		
5	4824.00	49.6 PK	74.00	-24.40	1.35H	229	45.60	31.43	7.23	34.63	-4.02		
6	4824.00	39.8 AV	54.00	-14.20	1.35H	229	35.80	31.43	7.23	34.63	-4.02		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction		
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor		
	(IVIIIZ)	(dBuV/m)	(ubu v/III)	(ub)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)		
1	2376.00	38.2 AV	54.00	-15.80	1.26V	25	41.20	26.90	4.98	34.90	3.02		
2	2376.00	46.7 PK	74.00	-27.30	1.26V	25	49.70	26.90	4.98	34.90	3.02		
3	*2412.00	103.4 PK	•	-	1.35V	23	71.20	27.11	5.10	0.00	-32.21		
4	*2412.00	97.9 AV	1	-	1.35V	23	65.70	27.11	5.10	0.00	-32.21		
5	4824.00	41.0 AV	54.00	-13.00	1.32V	78	37.00	31.43	7.23	34.63	-4.02		
6	4824.00	49.6 PK	74.00	-24.40	1.32V	78	45.60	31.43	7.23	34.63	-4.02		

- 1. Emission level = Raw value Correction Factor
- 2. Correction Factor = Pre-Amp. Factor Ant. Factor Cable loss (Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
- 3. Margin value = Emission level Limit value
- 4. " * ": Fundamental frequency
- 5. The other emission levels were very low against the limit.



EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 50 % RH, 1050 hPa	TESTED BY: Bun	iny Yao

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M												
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction		
No.		Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor		
	(MHz)	(dBuV/m)	(ubuv/III)	(ub)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)		
1	*2437.00	107.7 PK	-	-	1.03H	256	75.30	27.33	5.08	0.00	-32.40		
2	*2437.00	101.1 AV	•	-	1.03H	256	68.70	27.33	5.08	0.00	-32.40		
3	4874.00	38.5 AV	54.00	-15.50	1.30H	233	34.40	31.47	7.21	34.63	-4.05		
4	4874.00	48.2 PK	74.00	-25.80	1.30H	233	44.10	31.47	7.21	34.63	-4.05		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
	Eroa	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction		
No.	Freq. (MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor		
	(IVITZ)	(dBuV/m)	(ubu v/III)	(ub)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)		
1	*2437.00	101.3 PK	•	-	1.39V	27	68.90	27.33	5.08	0.00	-32.40		
2	*2437.00	94.8 AV	-	-	1.39V	27	62.40	27.33	5.08	0.00	-32.40		
3	4874.00	40.9 AV	54.00	-13.10	1.38V	70	36.80	31.47	7.21	34.63	-4.05		
4	4874.00	49.3 PK	74.00	-24.70	1.38V	70	45.20	31.47	7.21	34.63	-4.05		

- 1. Emission level = Raw value Correction Factor
- 2. Correction Factor = Pre-Amp. Factor Ant. Factor Cable loss. (Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
- 3. Margin value = Emission level Limit value
- 4. " * ": Fundamental frequency
- 5. The other emission levels were very low against the limit.



EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	30 deg. C, 50 % RH, 1050 hPa	TESTED BY: Bun	ny Yao

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M												
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction		
No.	No. (MHz) Lev	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor		
		(dBuV/m)			(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)		
1	*2462.00	105.9 PK	-	-	1.02H	262	73.50	27.33	5.08	0.00	-32.40		
2	*2462.00	98.7 AV	•	-	1.02H	262	66.34	27.33	5.08	0.00	-32.40		
3	2500.00	38.2 AV	54.00	-15.80	1.03H	268	40.50	27.54	5.06	34.90	2.31		
4	2500.00	47.5 PK	74.00	-26.50	1.03H	268	49.80	27.54	5.06	34.90	2.31		
5	4924.00	39.2 AV	54.00	-14.80	1.41H	227	35.10	31.51	7.21	34.62	-4.10		
6	4924.00	52.7 PK	74.00	-21.30	1.41H	227	48.60	31.51	7.21	34.62	-4.10		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
	Erog	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction		
No.	Freq. (MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Factor	Factor		
	(dBuV/m	(dBuV/m)	(ubu v/III)	(ub)	(m)	(Degree)	(dBuV)	(dB)	(dB)	(dB)	(dB)		
1	*2462.00	99.4 PK	•	-	1.39V	27	67.00	27.33	5.08	0.00	-32.40		
2	*2462.00	93.6 AV	•	-	1.39V	27	61.20	27.33	5.08	0.00	-32.40		
3	2500.00	37.7 AV	54.00	-16.30	1.42V	51	40.00	27.54	5.06	34.90	2.31		
4	2500.00	48.8 PK	74.00	-25.20	1.42V	51	51.10	27.54	5.06	34.90	2.31		
5	4924.00	40.3 AV	54.00	-13.70	1.29V	89	36.20	31.51	7.21	34.62	-4.10		
6	4924.00	49.2 PK	74.00	-24.80	1.29V	89	45.10	31.51	7.21	34.62	-4.10		

Emission level = Raw value - Correction Factor

- 3. Correction Factor = Pre-Amp. Factor Ant. Factor Cable loss (Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
- 1. Margin value = Emission level Limit value
- 2. " * ": Fundamental frequency
- 3. The other emission levels were very low against the limit.

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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
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

- 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 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



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

4.3.6 EUT OPERATING CONDITIONS

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



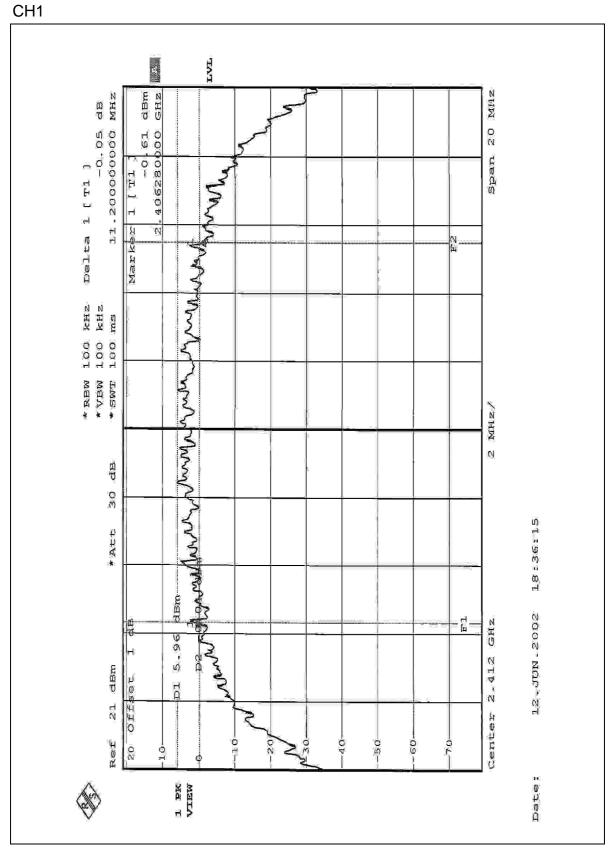
4.3.7 TEST RESULTS

EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 70%RH, 1005 hPa

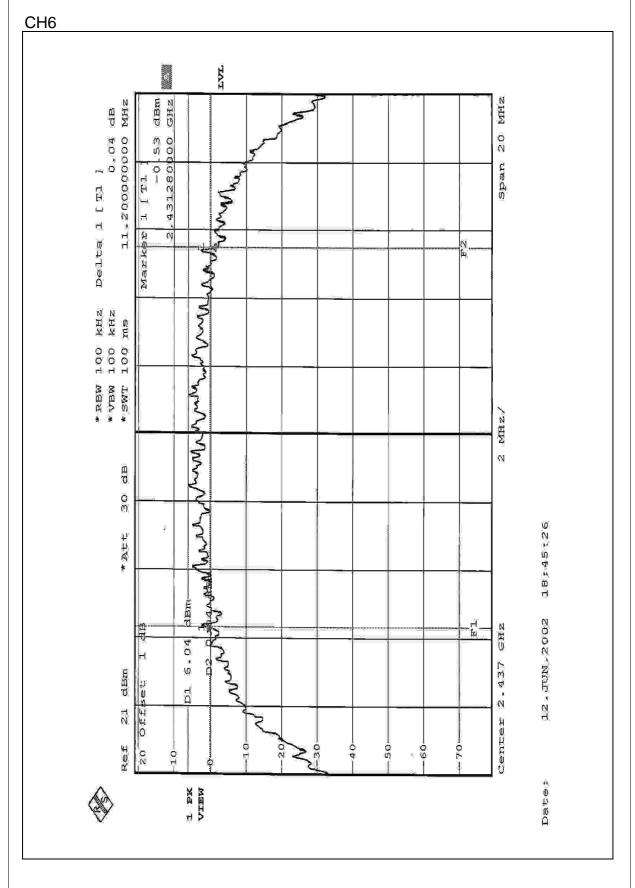
TESTED BY: Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.20	0.5	PASS
6	2437	11.20	0.5	PASS
11	2462	11.20	0.5	PASS



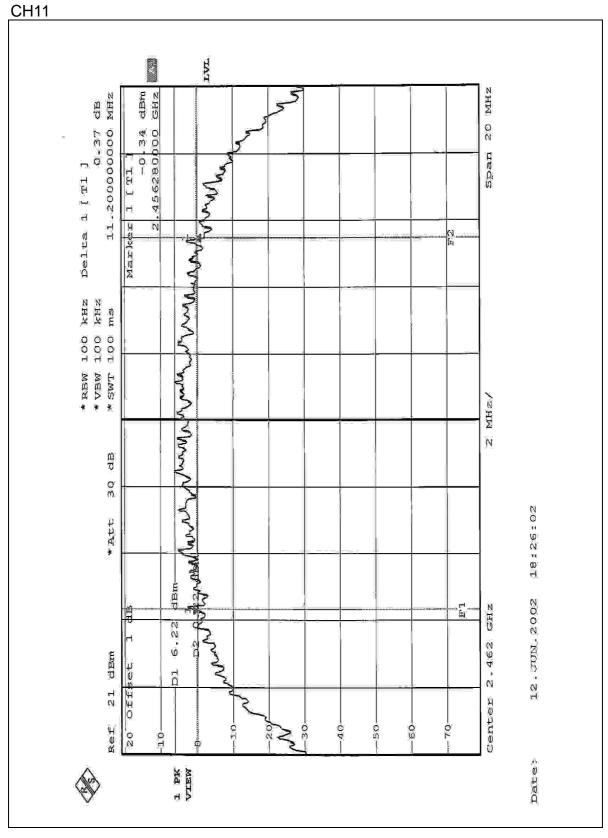














4.4 MAXIMUM PEAK OUTPUT POWER

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
SINGLE CHANNEL POWER METER	NRVS	100026	Feb. 21, 2003
PEAK POWER SENSOR	NRV-Z32	100013	Feb. 21, 2003

- 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.



4.4.3 TEST PROCEDURES

The transmitter output was connected to the peak power meter.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.7 TEST RESULTS

EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL	25 deg. C, 70%RH,
		CONDITIONS	1005 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	18.45	30	PASS
6	2437	18.31	30	PASS
11	2462	18.30	30	PASS

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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
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

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 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6



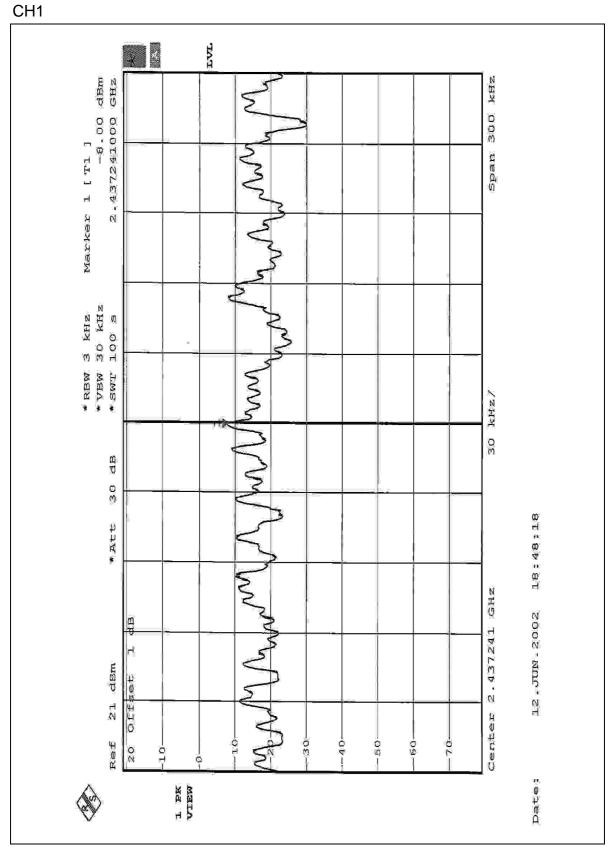
4.5.7 TEST RESULTS

EUT	PCMCIA 11M Wireless LAN Card	MODEL	WE302
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL	26 deg. C, 60%RH,
		CONDITIONS	1005 hPa

TESTED BY: Steven Lu

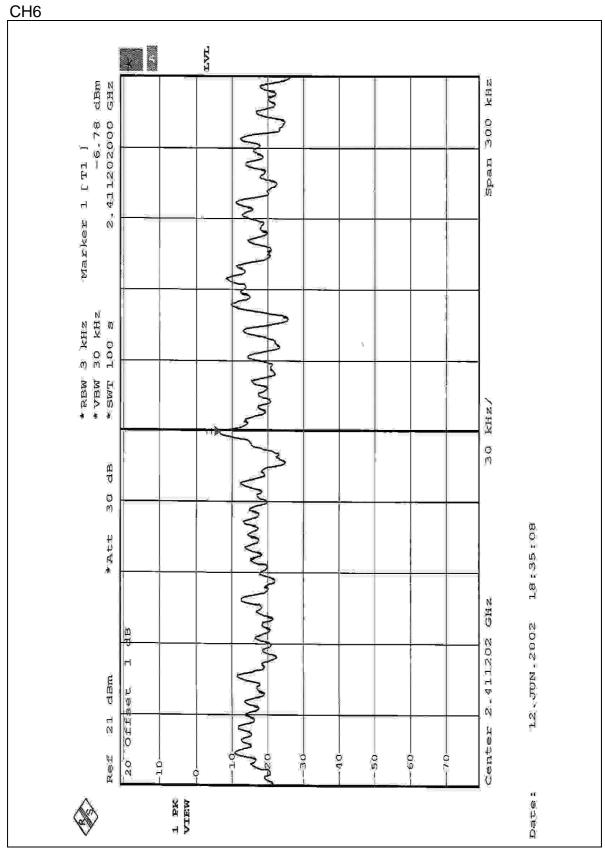
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-8.00	8	PASS
6	2437	-6.78	8	PASS
11	2462	-6.63	8	PASS



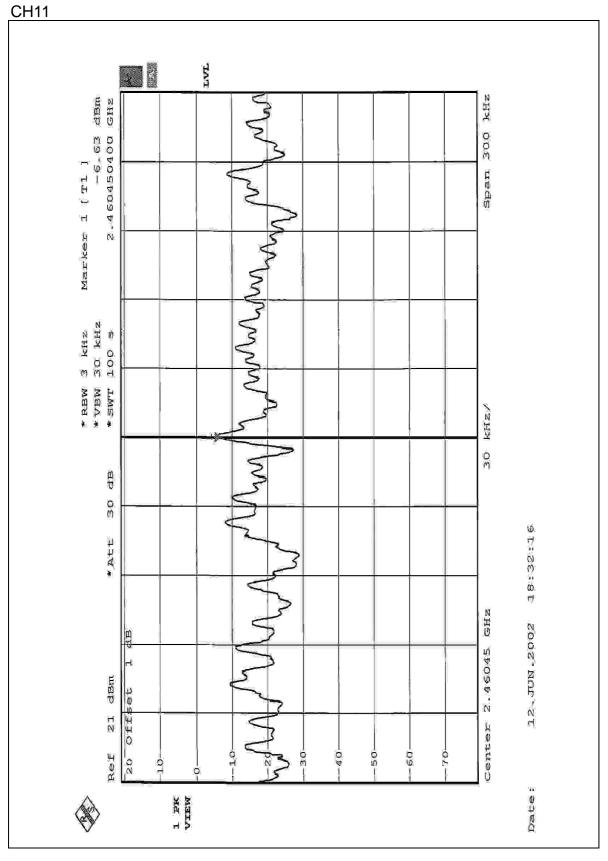














4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

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 both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation



4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

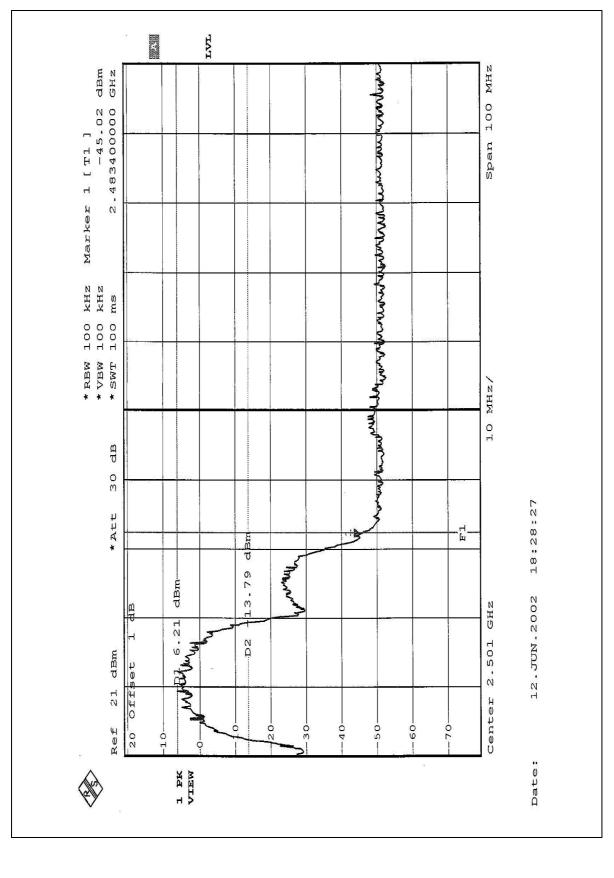
4.6.6 TEST RESULTS

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

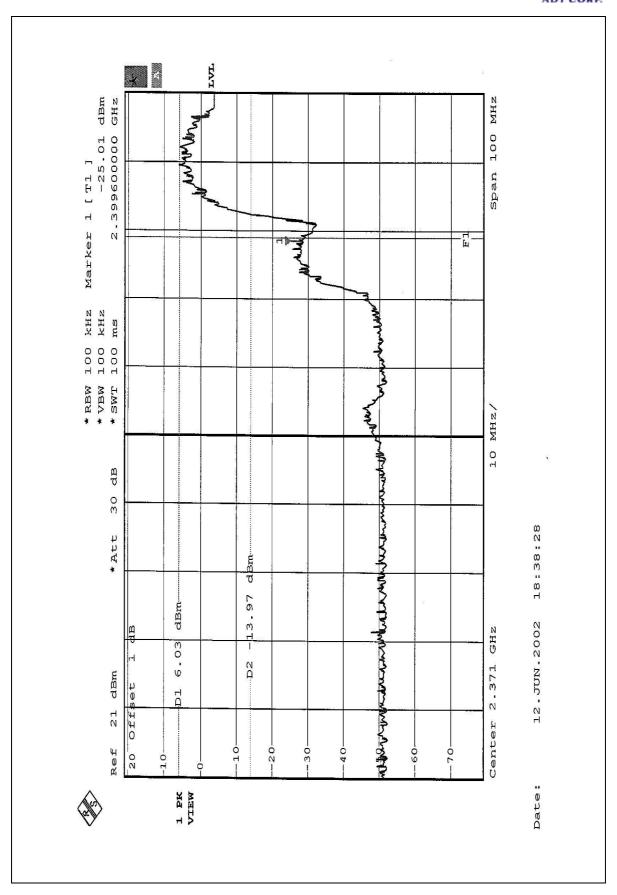
NOTE1: The band edge emission plot on the following first page shows 51.23dB delta between carrier maximum power and local maximum emission in restrict band (2.4834GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.6 is 80.3dBuV/m, so the maximum field strength in restrict band is 98.7-51.23=47.47 dBuV/m which is under 54 dBuV/m limit.

NOTE2: The band edge emission plot on the following second page shows 51.03dB delta between carrier maximum power and local maximum emission in restrict band (2.375GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.6 is 103.8dBuV/m, so the maximum field strength in restrict band is 103.8-51.03=52.77 dBuV/m which is under 54 dBuV/m limit.









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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

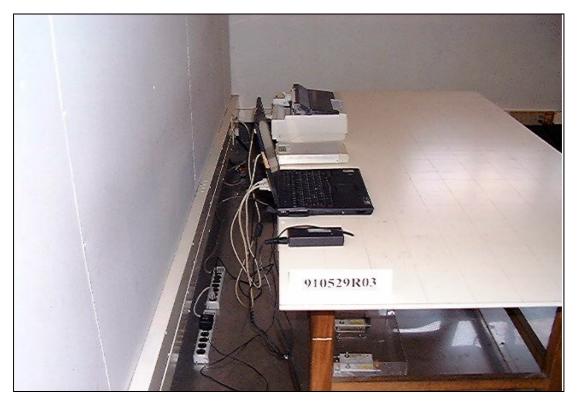
The antenna used in this product is Patch Antenna. There is no antenna connector. The maximum Gain of this antenna is 0dBi.



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

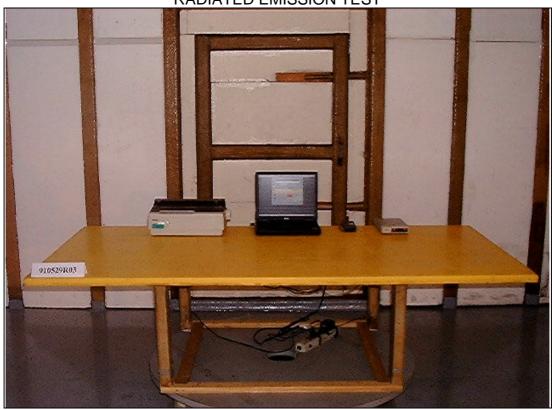
CONDUCTED EMISSION TEST

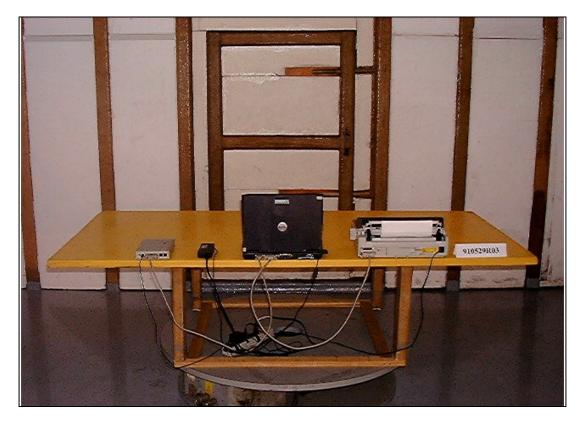






RADIATED EMISSION TEST





FCC ID: O6M-WE302



6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC 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 TUV Rheinland

Japan VCCI
New Zealand MoC
Norway NEMKO

R.O.C. BSMI, DGT, CNLA

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:

Lin Kou EMC Lab:Hsin Chu EMC Lab:Tel: 886-2-26052180Tel: 886-35-935343Fax: 886-2-26052943Fax: 886-35-935342

Lin Kou Safety Lab: Lin Kou RF&Telecom Lab

Tel: 886-2-26093195 Tel: 886-3-3270910 Fax: 886-2-26093184 Fax: 886-3-3270892

Email: service@mail.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.