

FCC TEST REPORT

REPORT NO.: RF920120R05A

MODEL NO.: WE602-BF

RECEIVED: Jan. 20, 2003

TESTED: Jan. 20 ~ Jan. 21, 2003

APPLICANT: BROMAX COMMUNICATIONS, INC.

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R.O.C.

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Lab Code: 200102-0

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1 CERTIFICATION

PRODUCT: 54M Wireless LAN CardBus Card

MODEL NO.: WE602-BF

BRAND: Bromax

APPLICANT: BROMAX COMMUNICATIONS, INC.

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

ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from Jan. 20 ~ Jan. 21, 2003, 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.

CHECKED BY: Lefour Charge ATE: Feb. 25, 2003

Kolony Chang

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	AC Power Conducted Emission Limit: 48dBuV	PASS	Minimum passing margin is –14.61dBuV at 0.204MHz					
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 Radiated Emissions		Meet the requirement of limit					
15.247(c)	Limit: Table 15.209	PASS	Minimum passing margin is –4.50dBuV at 2390.00MHz					
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	54M Wireless LAN CardBus Card
MODEL NO.	WE602-BF
POWER SUPPLY	3.3VDC from host equipment
MODULATION TYPE	BPSK, QPSK, CCK,16QAM, 64QAM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	1/2/5.5/6/9/11/12/18/24/36/48/54Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
BANDWIDTH OF EACH CHANNEL	22MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	19.42dBm
ANTENNA TYPE	Printed Antenna
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

- 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. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.

FCC ID: O6M-WE602B



3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to 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 54Mbps with OFDM technique, the worst case, were chosen for final test.
- 4. Test result A is for 802.11b(DSSS) and test result B is for 802.11g(OFDM).

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an 54M Wireless LAN CardBus Card. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR 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.



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	PRINTER	EPSON	LQ-300+	DCGY017076	FCC DoC APPROVED
2	NOTEBOOK	COMPAQ	1500TC	1V27KQFZ65G8	FCC DoC APPROVED

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

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

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

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. 03, 2003	
Receiver	200000	004110/010	Wai. 00, 2000	
ROHDE & SCHWARZ Artificial	ESH2-Z5	892107/003	July 10, 2003	
Mains Network (For EUT)	E3HZ-Z3	6921077003	July 10, 2003	
* ROHDE & SCHWARZ	ENY41	838119/028	Nov. 29, 2003	
4-wire ISN	CINT41	030119/020	1407. 29, 2003	
* ROHDE & SCHWARZ	ENY22	837497/018	Nov. 29, 2003	
2-wire ISN	CINT 22	03/49//010	NOV. 29, 2003	
EMCO L.I.S.N.	3825/2	9504-2359	July 10, 2002	
(For peripherals)	3023/2	9504-2359	July 10, 2003	
Software	Cond-V2M1	NA	NA	
RF cable (JYEBAO)	5D-FB	Cable-C03.01	July 11, 2003	
Terminator (For EMCO LISN)	NA	E1-01-300	Feb. 23, 2004	
Terminator (For EMCO LISN)	NA	E1-01-301	Feb. 23, 2004	

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. "*": These equipment are used for conducted telecom port test only (if tested).
- 3. The test was performed in ADT Shielded Room No. 3.
- 4. The VCCI Site Registration No. is C-274.



4.1.3 TEST PROCEDURES

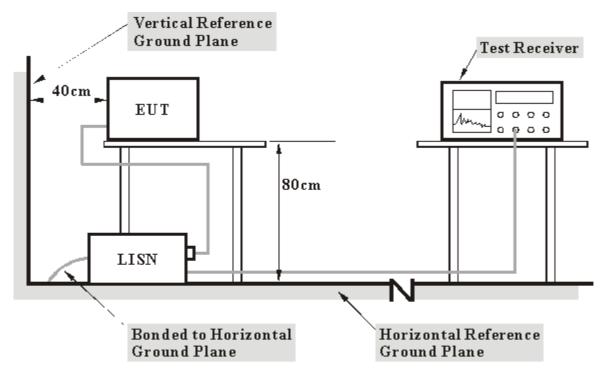
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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 150 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 (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.



4.1.6 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 printer and the printer prints them on paper.

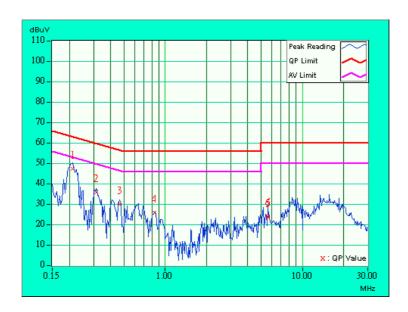


4.1.7 TEST RESULTS

EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny	y Yao

No	Freq.	Corr. Factor	Readin	_	Emissio	on Level (uV)]		nit (uV)]	Mar (dl	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.213	0.10	46.93	-	47.03	-	63.11	53.11	-16.08	-
2	0.314	0.10	35.52	ı	35.62	ı	59.86	49.86	-24.24	-
3	0.466	0.11	29.36	ı	29.47	ı	56.58	46.58	-27.11	-
4	0.834	0.17	25.37	-	25.54	-	56.00	46.00	-30.46	-
5	5.598	0.50	23.37	-	23.87	-	60.00	50.00	-36.13	-
6	5.598	0.50	23.55	-	24.05	-	60.00	50.00	-35.95	-

- 1. QP. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": NA
- 3. 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.

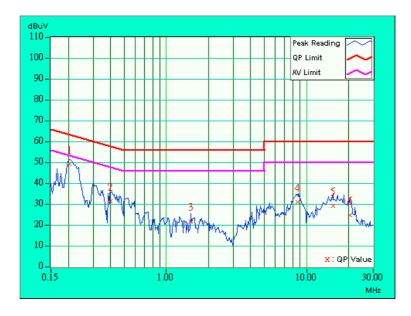




EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny	y Yao

No	Freq.	Corr. Factor		g Value (uV)]		on Level (uV)]		nit (uV)]	Mar (dl	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.205	0.10	48.71	-	48.81	-	63.42	53.42	-14.61	-
2	0.400	0.10	30.94	-	31.04	-	57.85	47.85	-26.81	-
3	1.500	0.25	21.20	-	21.45	-	56.00	46.00	-34.55	-
4	8.617	0.40	30.65	ı	31.05	-	60.00	50.00	-28.95	-
5	15.398	0.51	28.47	-	28.98	-	60.00	50.00	-31.02	_
6	20.406	0.61	24.26	-	24.87	-	60.00	50.00	-35.13	-

- 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.

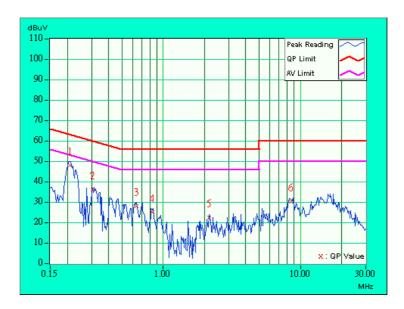




EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny	y Yao

No	Freq.	Corr. Factor	Readin	_	Emissio	on Level (uV)]		nit (uV)]	Mar (dl	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	47.73	-	47.83	-	63.26	53.26	-15.43	-
2	0.306	0.10	35.77	-	35.87	-	60.07	50.07	-24.20	-
3	0.638	0.14	27.76	-	27.90	-	56.00	46.00	-28.10	-
4	0.830	0.17	24.77	ı	24.94	ı	56.00	46.00	-31.06	-
5	2.176	0.32	22.03	ı	22.35	ı	56.00	46.00	-33.65	-
6	8.504	0.50	29.80	-	30.30	-	60.00	50.00	-29.70	-

- 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.

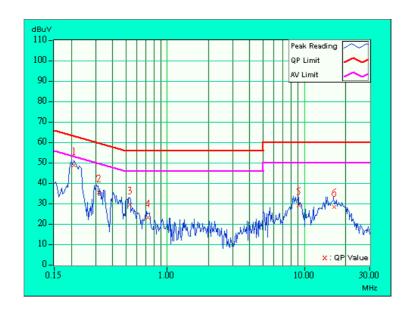




EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF	
MODE	Channel 6	6dB BANDWIDTH	9 kHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)	
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao		

No	Freq.	Corr. Factor		g Value (Uv)]	Emissio	on Level (uV)]		nit (uV)]	Mar (d	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	48.45	-	48.55	-	63.26	53.26	-14.71	-
2	0.318	0.10	34.92	-	35.02	-	59.76	49.76	-24.74	-
3	0.533	0.12	29.02	-	29.14	-	56.00	46.00	-26.86	-
4	0.728	0.15	22.89	-	23.04	ı	56.00	46.00	-32.96	-
5	9.090	0.40	28.59	-	28.99	-	60.00	50.00	-31.01	-
6	16.586	0.53	28.04	-	28.57	-	60.00	50.00	-31.43	-

- 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.

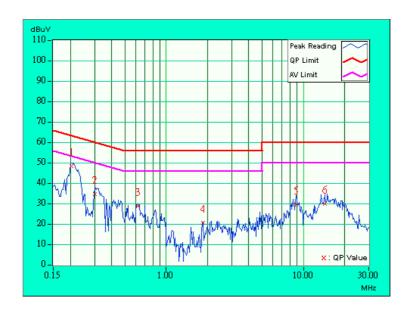




EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF	
MODE	Channel 11	6dB BANDWIDTH	9 kHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)	
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao		

No	Freq.	Corr. Factor	Readin	_	Emissio	on Level (uV)]		nit (uV)]	Mar (dl	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.205	0.10	47.89	-	47.99	-	63.42	53.42	-15.43	-
2	0.302	0.10	34.04	-	34.14	-	60.18	50.18	-26.04	-
3	0.619	0.14	28.12	-	28.26	-	56.00	46.00	-27.74	-
4	1.859	0.29	20.23	-	20.52	ı	56.00	46.00	-35.48	-
5	8.863	0.50	28.88	-	29.38	-	60.00	50.00	-30.62	-
6	14.391	0.68	29.30	-	29.98	-	60.00	50.00	-30.02	-

- 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.

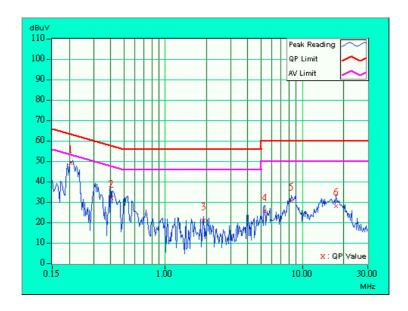




EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF	
MODE	Channel 11	6dB BANDWIDTH	9 kHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)	
ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao		

No	Freq.	Corr. Factor	Readin	_	Emissio	on Level (uV)]		nit (uV)]	Mar (dl	_
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.205	0.10	48.53	-	48.63	-	63.42	53.42	-14.79	-
2	0.404	0.10	31.80	-	31.90	-	57.77	47.77	-25.87	-
3	1.902	0.29	20.52	-	20.81	-	56.00	46.00	-35.19	-
4	5.336	0.40	24.96	-	25.36	ı	60.00	50.00	-34.64	-
5	8.332	0.40	30.33	-	30.73	-	60.00	50.00	-29.27	-
6	17.621	0.55	27.66	-	28.21	-	60.00	50.00	-31.79	-

- 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.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

- 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	3520A00667	Aug. 26, 2003	
*CHASE Preamplifier	CPA9231A/4 3215		Nov. 06, 2003	
* HP Preamplifier	8449B	3008A01201	Dec. 01, 2003	
* HP Preamplifier	8449B	3008A01292	Aug. 07, 2003	
* ROHDE & SCHWARZ TEST RECEIVER	ESVS10	846285/012	Sept. 16, 2003	
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 27, 2003	
SCHAFFNER Tunable Dipole Antenna	VHBA 9123	459	Nov. 22, 2003	
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	1404. 22, 2003	
* CHASE BILOG Antenna	CBL6112B	2751	March 30, 2003	
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 3, 2003	
* EMCO Horn Antenna	3115	9312-4192	April 9, 2003	
* CHANCE Turn Table & Tower Controller	ACS-I	NA	NA	
* Software	ADT_Radiate d_V5.09	NA	NA	
* ANRITSU RF Switches	MP59B	M51167	Aug. 21, 2003	
* TIMES RF cable	LMR-600	CABLE-ST6-01	Aug. 21, 2003	

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. "*" = These equipment are used for the final measurement.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The test was performed in ADT Open Site No. 6.
- 5. The VCCI Site Registration No. is R-728.



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:

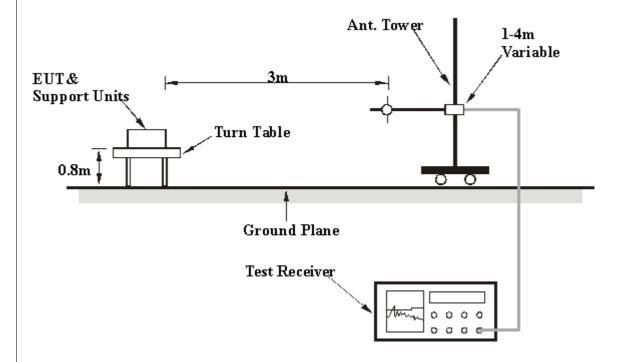
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 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	54M Wireless LAN CardBus Card	MODEL	WE602-BF
MODE Channel 11		FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22 deg. C, 48 % RH, 1050 hPa	TESTED BY: Bun	iny Yao

	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	221.50	23.9 QP	46.00	-22.10	1.56 H	172	12.50	11.50	
2	300.00	24.8 QP	46.00	-21.20	1.44 H	356	10.20	14.60	
3	439.00	24.4 QP	46.00	-21.60	1.78 H	16	6.20	18.20	
4	514.00	31.2 QP	46.00	-14.80	1.63 H	234	11.40	19.70	
5	596.50	28.0 QP	46.00	-18.00	1.70 H	333	6.60	21.50	
6	800.50	28.6 QP	46.00	-17.40	1.60 H	342	5.80	22.80	

	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	
(IVII IZ)	(dBuV/m)	(4247711)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)		
1	221.50	24.0 QP	46.00	-22.00	1.35 V	287	12.50	11.50	
2	325.50	30.6 QP	46.00	-15.40	1.20 V	265	15.50	15.10	
3	439.00	29.1 QP	46.00	-16.90	1.52 V	125	10.90	18.20	
4	500.50	26.3 QP	46.00	-19.70	1.49 V	15	6.90	19.40	
5	567.30	23.7 QP	46.00	-22.30	1.49 V	62	2.70	21.00	
6	800.50	29.0 QP	46.00	-17.00	1.16 V	276	6.20	22.80	

- 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.



4.2.8 TEST RESULTS (A)

EUT	54M Wireless LAN CardBus Card		WE602-BF	
MODE Channel 1		FREQUENCY Above 1000		
INPUT POWER (SYSTEM)	120Vac, 60 Hz		Peak(PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	22 deg. C, 48 % RH, 1050 hPa	TESTED BY: Bunny Yao		

	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	1608.00	40.5 PK	74.00	-33.50	1.21 H	158	11.00	29.40	
2	2390.00	59.6 PK	74.00	-14.40	1.26 H	184	26.10	33.50	
2	2390.00	47.3 AV	54.00	-6.70	1.26 H	184	13.80	29.40	
3	*2412.00	106.7 PK			1.26 H	184	73.10	33.60	
3	*2412.00	96.9 AV			1.26 H	184	63.30	33.50	
4	3216.00	42.6 PK	74.00	-31.40	1.80 H	280	6.10	36.50	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq. (MHz)	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	Raw Value	Correction Factor		
	(=)	(dBuV/m) (dBuV/m) (dB) (m)	(m)	(Degree)	(dBuV)	(dB/m)				
1	1608.00	40.5 PK	74.00	-33.50	1.03 V	256	11.00	29.40		
2	2390.00	55.6 PK	74.00	-18.40	1.23 V	168	22.10	33.50		
2	2390.00	44.3 AV	54.00	-9.70	1.23 V	168	10.80	29.40		
3	*2412.00	103.6 PK			1.23 V	168	70.00	33.60		
3	*2412.00	94.7 AV			1.23 V	168	61.10	33.50		
4	3216.00	41.6 PK	74.00	-32.40	1.74 V	45	5.10	36.50		

- 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. " * ": Fundamental frequency.
- 6. The other emission levels were very low against the limit.



EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF	
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	22 deg. C, 48 % RH, 1050 hPa	TESTED BY: Bunny Yao		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Correction	
No.		Level	(dBuV/m)	_	Height	Angle	Value	Factor	
	(MHz)	(dBuV/m)	(ubuv/III)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)	
1	1624.00	35.6 PK	74.00	-38.40	1.32 H	65	6.10	29.50	
2	*2437.00	105.5 PK			1.59 H	102	71.70	33.70	
2	*2437.00	96.1 AV			1.59 H	102	62.30	29.50	
3	3248.00	41.1 PK	74.00	-32.90	1.39 H	69	4.60	36.60	

	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		
(IVIHZ)	(IVITZ)	(dBuV/m)	(ubuv/III)	(db)	(m)	(Degree)	(dBuV)	(dB/m)		
1	1624.00	41.5 PK	74.00	-32.50	1.21 V	21	12.00	29.50		
2	*2437.00	102.5 PK			1.40 V	80	68.70	33.70		
2	*2437.00	91.1 AV			1.40 V	80	57.30	29.50		
3	3248.00	43.0 PK	74.00	-31.00	1.15 V	45	6.50	36.60		

- 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. " * " : Fundamental frequency.
- 6. The other emission levels were very low against the limit.



EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF	
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	22 deg. C, 48 % RH, 1050 hPa	TESTED BY: Bunny Yao		

	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	1641.00	44.4 PK	74.00	-29.60	1.32 H	22	14.90	29.60	
2	*2462.00	105.7 PK			1.38 H	280	71.90	33.80	
2	*2462.00	96.1 AV			1.38 H	280	62.30	29.60	
3	2483.50	56.4 PK	74.00	-17.60	1.37 H	280	22.50	33.80	
3	2483.50	47.1 AV	54.00	-6.90	1.37 H	280	13.20	33.80	
4	3282.00	43.4 PK	74.00	-30.60	1.11 H	45	6.80	36.60	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.		Level	-	•	Height	Angle	Value	Factor		
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)			
1	1641.00	42.9 PK	74.00	-31.10	1.02 V	12	13.40	29.60		
2	*2462.00	102.5 PK			1.20 V	287	68.70	33.80		
2	*2462.00	91.2 AV			1.20 V	287	57.40	29.60		
3	2483.50	54.8 PK	74.00	-19.20	1.10 V	12	20.90	33.80		
3	2483.50	45.9 AV	54.00	-8.10	1.10 V	12	12.00	33.80		
4	3282.00	41.2 PK	74.00	-32.80	1.47 V	30	4.60	36.60		

- 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. " * ": Fundamental frequency.
- 6. The other emission levels were very low against the limit.



4.2.9 TEST RESULTS (B)

EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		Peak(PK)
(OTOTEM)		FUNCTION	Average (AV)
ENVIRONMENTAL	22 deg. C, 48 % RH,	TESTED BY: Bunny Yao	
CONDITIONS	1050 hPa		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	Raw Value	Correction Factor	
	(1411 12)	(dBuV/m)	(ubuv/iii) (ub)	(m)	(Degree)	(dBuV)	(dB/m)		
1	1608.00	42.8 PK	74.00	-31.20	1.11 H	158	13.30	29.40	
2	2390.00	56.9 PK	74.00	-17.10	1.89 H	150	23.40	33.50	
2	2390.00	47.8 AV	54.00	-6.20	1.89 H	150	14.30	29.40	
3	*2412.00	107.3 PK			1.89 H	150	73.70	33.60	
3	*2412.00	93.4 AV			1.89 H	150	63.80	33.50	
4	3216.00	42.3 PK	74.00	-31.70	1.56 H	22	5.80	36.50	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Correction
No.	(MHz)	Level		_	Height	Angle	Value	Factor
	(IVIF1Z)	(dBuV/m)	(ubuv/III)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)
1	1608.00	41.5 PK	74.00	-32.50	1.48 V	48	12.00	29.40
2	2390.00	58.2 PK	74.00	-15.80	1.26 V	145	24.70	33.50
2	2390.00	49.5 AV	54.00	-4.50	1.26 V	145	16.00	29.40
3	*2412.00	103.7 PK			1.26 V	145	70.10	33.60
3	*2412.00	91.2 AV			1.26 V	145	57.60	33.50
4	3216.00	43.1 PK	74.00	-30.90	1.85 V	56	6.60	36.50

- 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. " * ": Fundamental frequency.
- 6. The other emission levels were very low against the limit.



EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22 deg. C, 48 % RH, 1050 hPa	TESTED BY: Bun	ny Yao

	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	1624.00	40.5 PK	74.00	-33.50	1.44 H	44	11.00	29.50	
2	*2437.00	106.8 PK			1.58 H	88	73.00	33.70	
2	*2437.00	97.3 AV			1.58 H	88	63.50	29.50	
3	3248.00	42.2 PK	74.00	-31.80	1.58 H	88	5.70	36.60	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	Raw Value	Correction Factor	
	(1711 12)	(dBuV/m)	(dbuv/III) (db)	(GD)	(m)	(Degree)	(dBuV)	(dB/m)	
1	1624.00	43.6 PK	74.00	-30.40	1.78 V	77	14.10	29.50	
2	*2437.00	102.9 PK			1.86 V	325	69.10	33.70	
2	*2437.00	90.5 AV			1.86 V	325	56.70	29.50	
3	3248.00	41.1 PK	74.00	-32.90	1.48 V	236	4.60	36.60	

- 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. " * " : Fundamental frequency.
- 6. The other emission levels were very low against the limit.



EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22 deg. C, 48 % RH, 1050 hPa	TESTED BY: Bun	iny Yao

	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	1641.00	42.8 PK	74.00	-31.20	1.25 H	56	13.30	29.60
2	*2462.00	107.4 PK			1.82 H	285	73.60	33.80
2	*2462.00	93.0 AV			1.82 H	285	59.20	29.60
3	2483.50	60.5 PK	74.00	-13.50	1.82 H	285	26.60	33.80
3	2483.50	48.6 AV	54.00	-5.40	1.82 H	285	14.70	33.80
4	3282.00	43.3 PK	74.00	-30.70	1.86 H	54	6.70	36.60

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction
No.	(MHz)	Level	-	_	Height	Angle	Value	Factor
	(IVIITIZ)	(dBuV/m)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)	
1	1641.00	42.8 PK	74.00	-31.20	1.02 V	158	13.30	29.60
2	*2462.00	103.4 PK			1.86 V	67	69.60	33.80
2	*2462.00	89.4 AV			1.86 V	67	55.60	29.60
3	2483.50	55.2 PK	74.00	-18.80	1.10 V	66	21.30	33.80
3	2483.50	46.5 AV	54.00	-7.50	1.10 V	66	12.60	33.80
4	3282.00	43.3 PK	74.00	-30.70	1.51 V	62	6.70	36.60

- 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. " * ": Fundamental frequency.
- 6. The other emission levels were very low against the limit.

FCC ID: O6M-WE602B



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 24, 2003

NOTE:

1. 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 (A)

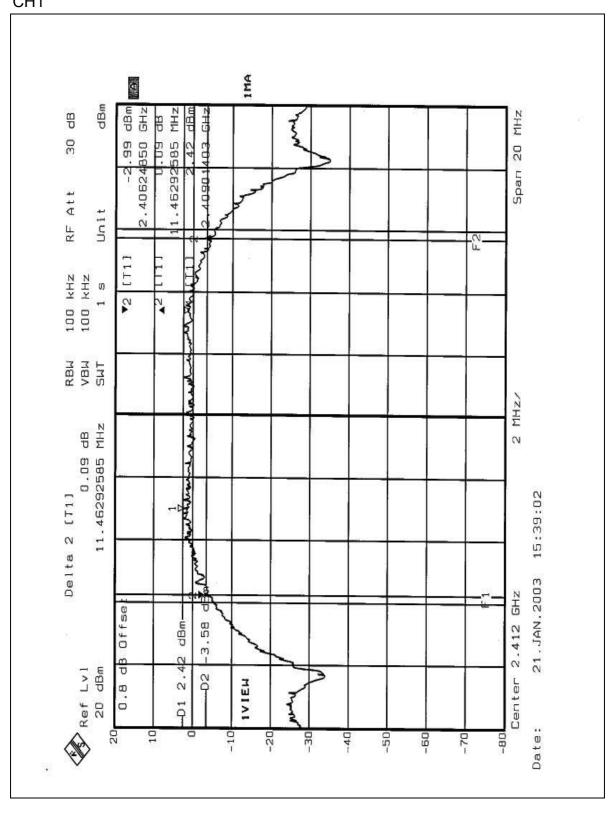
EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF
INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL	18 deg. C, 50%RH,
(SYSTEM)	120 vao, 00 112	CONDITIONS	1005 hPa

TESTED BY: Bunny Yao

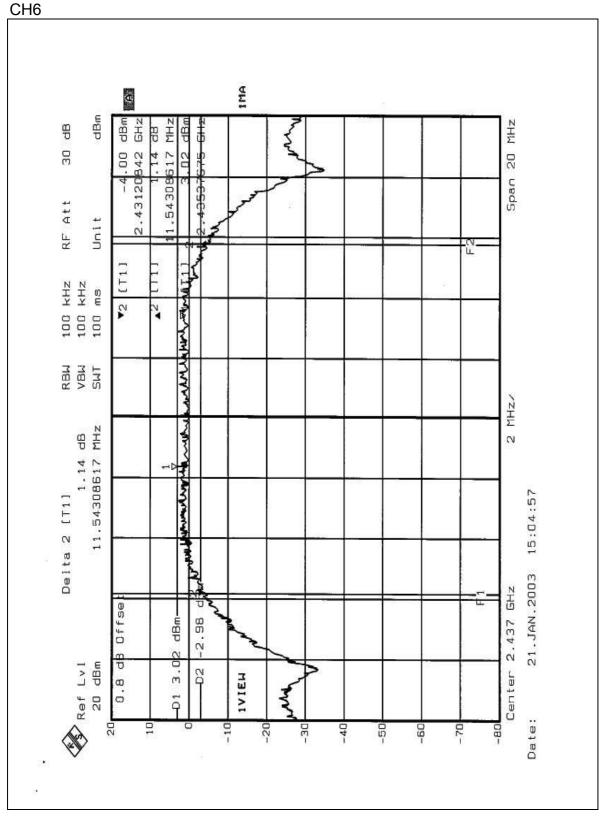
CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.49	0.5	PASS
6	2437	11.54	0.5	PASS
11	2462	10.70	0.5	PASS



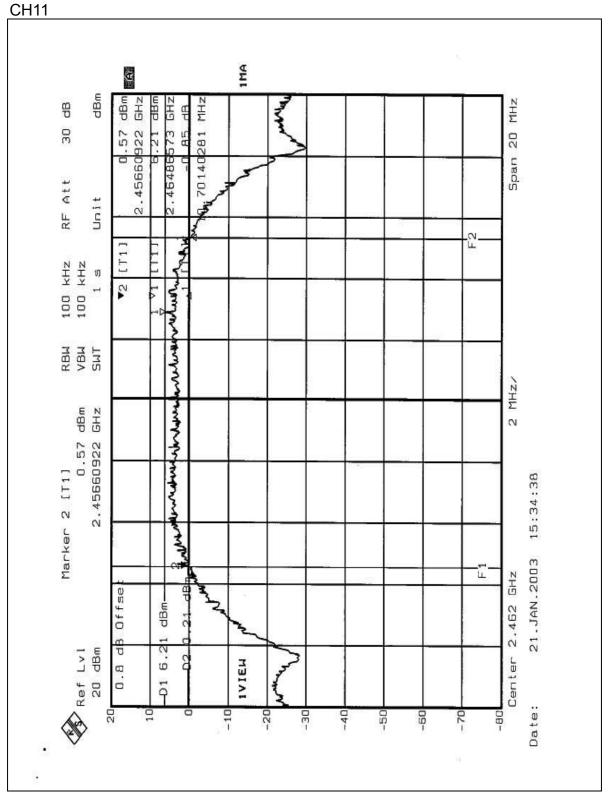
CH1













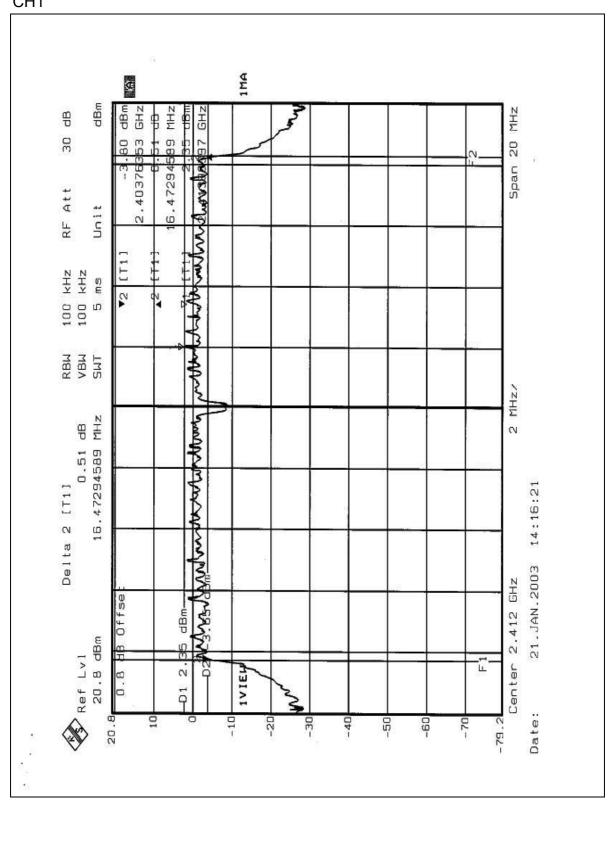
4.3.8 TEST RESULTS (B)

EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF
INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL	18 deg. C, 50%RH,
(SYSTEM)	120 vac, 00 112	CONDITIONS	1005 hPa

TESTED BY: Bunny Yao

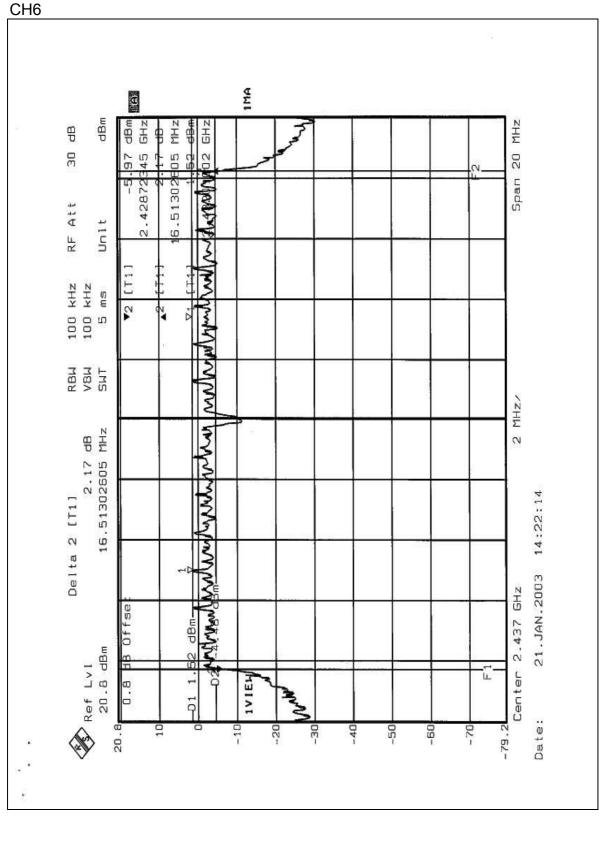
CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.47	0.5	PASS
6	2437	16.51	0.5	PASS
11	2462	16.51	0.5	PASS





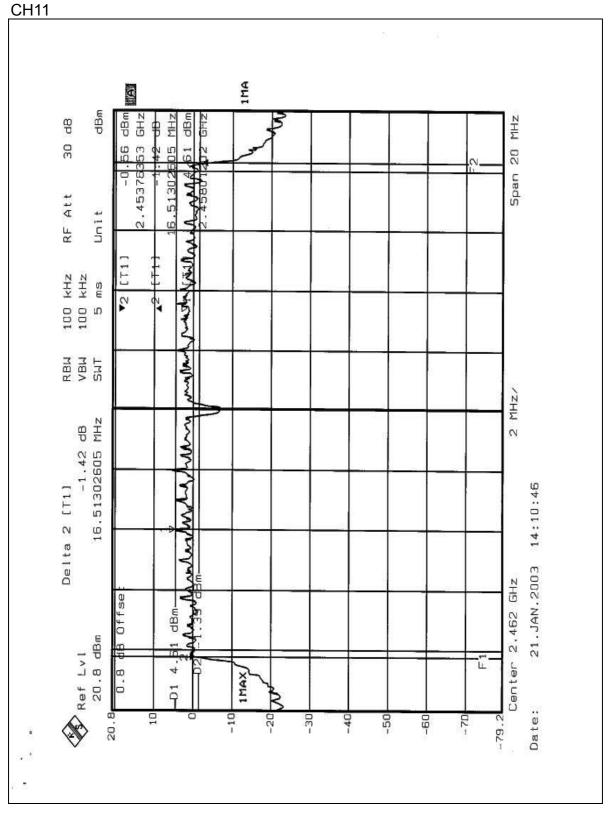












FCC ID: O6M-WE602B



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
POWER METER	E4416A	GB41291118	Jul. 30, 2003
PEAK POWER SENSOR	E9327A	US40440722	Jul. 30, 2003

NOTE:

1. 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 (A)

EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF	
INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL	18 deg. C, 50%RH,	
(SYSTEM)		CONDITIONS	1005 hPa	
TESTED BY: Bunny Yao				

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.60	30	PASS
6	2437	15.92	30	PASS
11	2462	18.00	30	PASS



4.4.8 TEST RESULTS (B)

EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF	
INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL	18 deg. C, 50%RH,	
(SYSTEM)	120 vac, 00 112	CONDITIONS	1005 hPa	
TESTED BY: Bunny Yao				

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	18.80	30	PASS
6	2437	19.42	30	PASS
11	2462	18.20	30	PASS

FCC ID: O6M-WE602B



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 24, 2003

NOTE:

1. 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



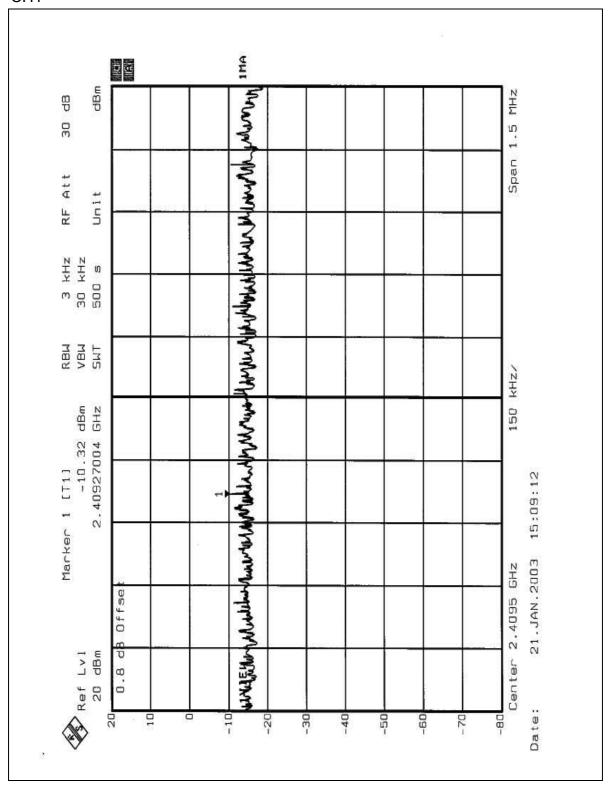
4.5.7 TEST RESULTS (A)

EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF
INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL	18 deg. C, 50%RH,
(SYSTEM)		CONDITIONS	1005 hPa

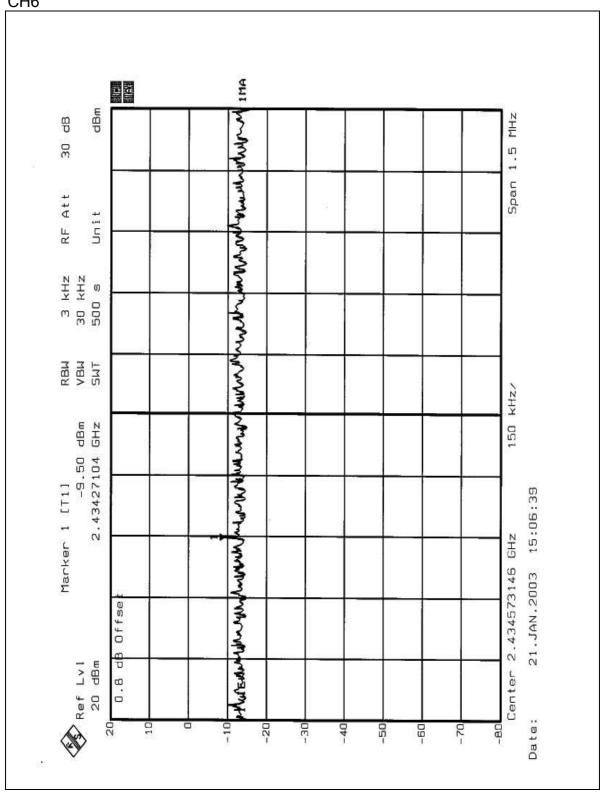
TESTED BY: Bunny Yao

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-10.32	8	PASS
6	2437	-9.50	8	PASS
11	2462	-7.90	8	PASS

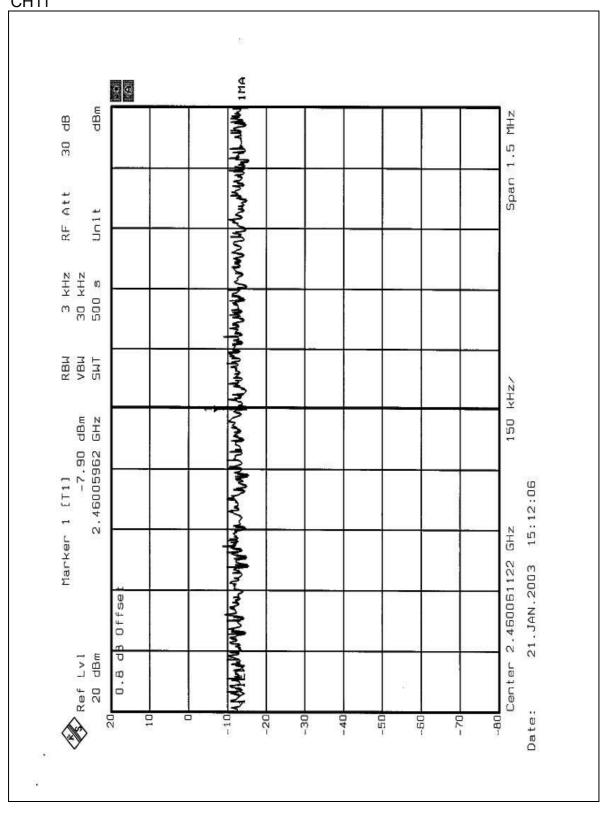














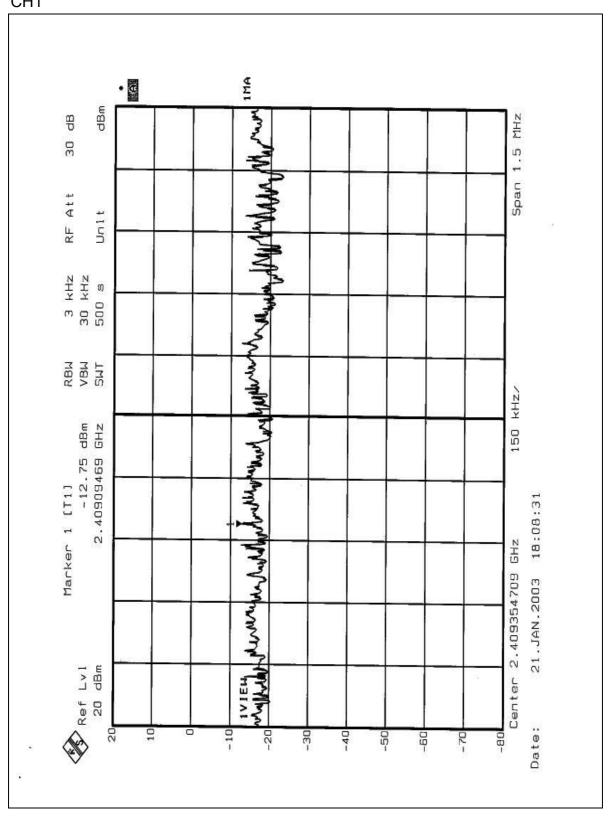
4.5.8 TEST RESULTS (B)

EUT	54M Wireless LAN CardBus Card	MODEL	WE602-BF
INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL	18 deg. C, 50%RH,
(SYSTEM)		CONDITIONS	1005 hPa

TESTED BY: Bunny Yao

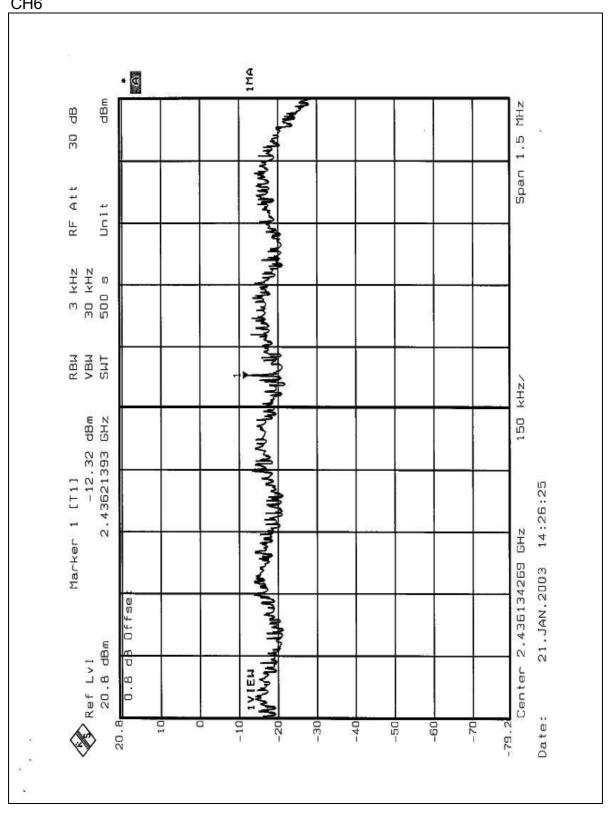
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-12.75	8	PASS
6	2437	-12.32	8	PASS
11	2462	-10.78	8	PASS



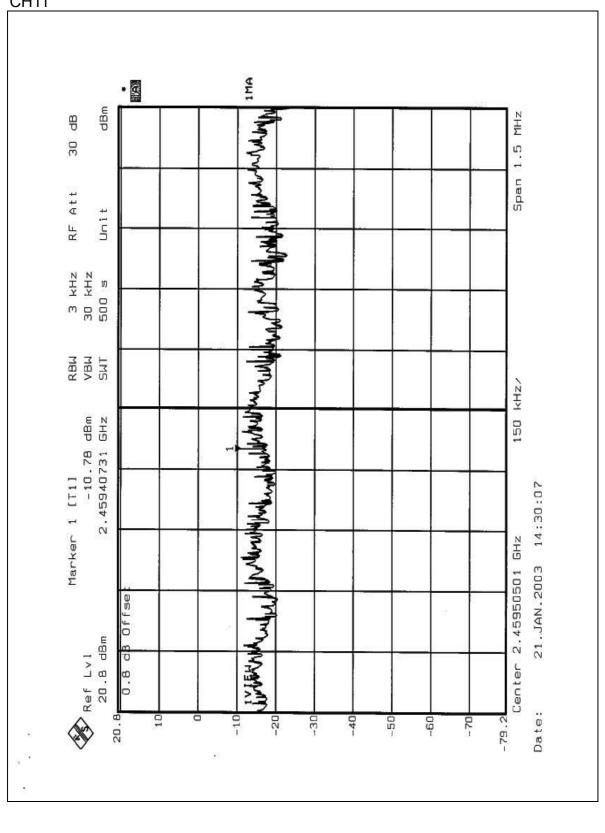














4.6 BAND EDGES MEASUREMENT

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 24, 2003

NOTE:

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

^{1.} The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

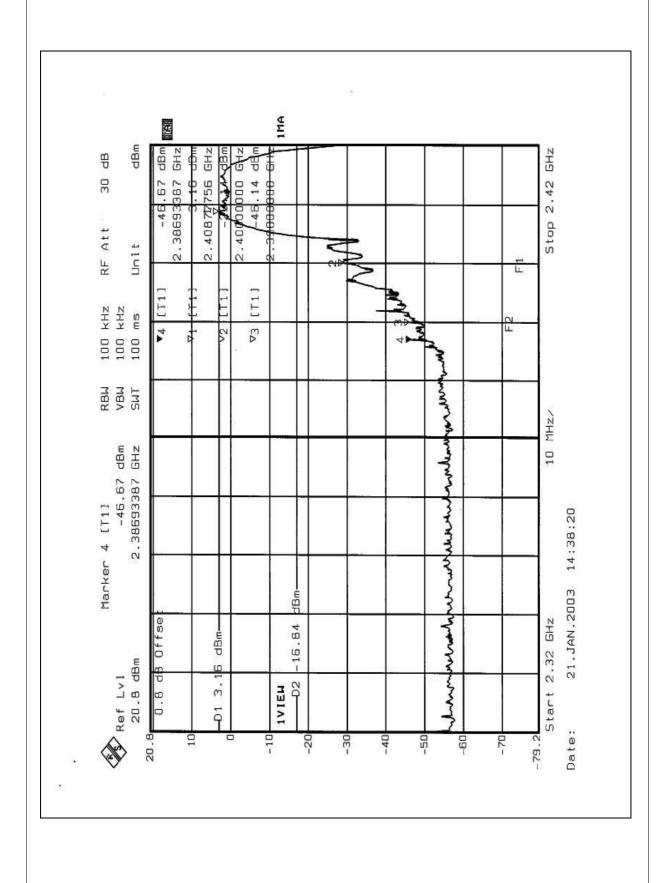
4.6.6 TEST RESULTS (A)

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).

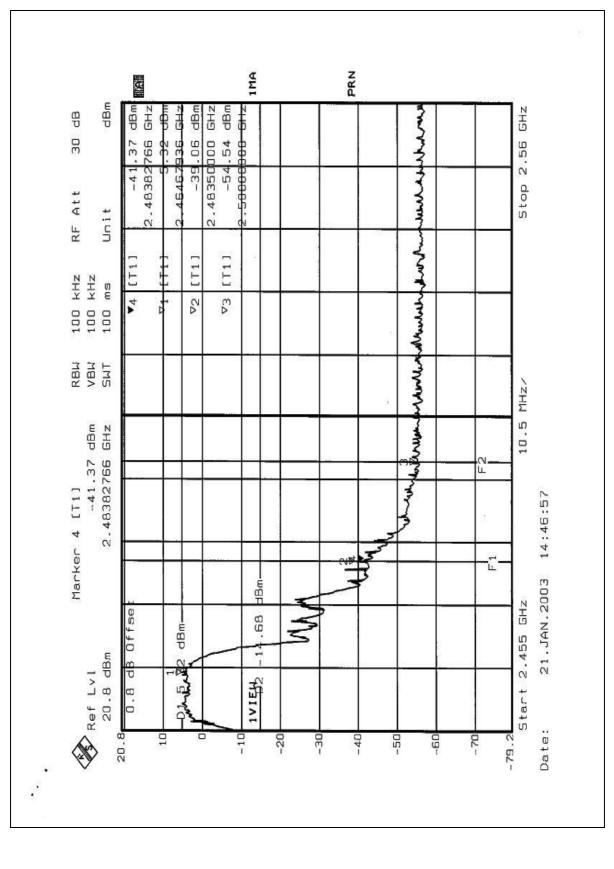
NOTE1: The band edge emission plot on the following first page shows 49.83dB delta between carrier maximum power and local maximum emission in restrict band (2.3869GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 (page 24) is 96.9dBuV/m, so the maximum field strength in restrict band is 96.9-49.83=47.07 dBuV/m which is under 54 dBuV/m limit.

NOTE2: The band edge emission plot on the following second page shows 46.69dB delta between carrier maximum power and local maximum emission in restrict band (2.4838GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 (page 26) is 96.1dBuV/m, so the maximum field strength in restrict band is 96.1-46.69=49.41 dBuV/m which is under 54 dBuV/m limit.











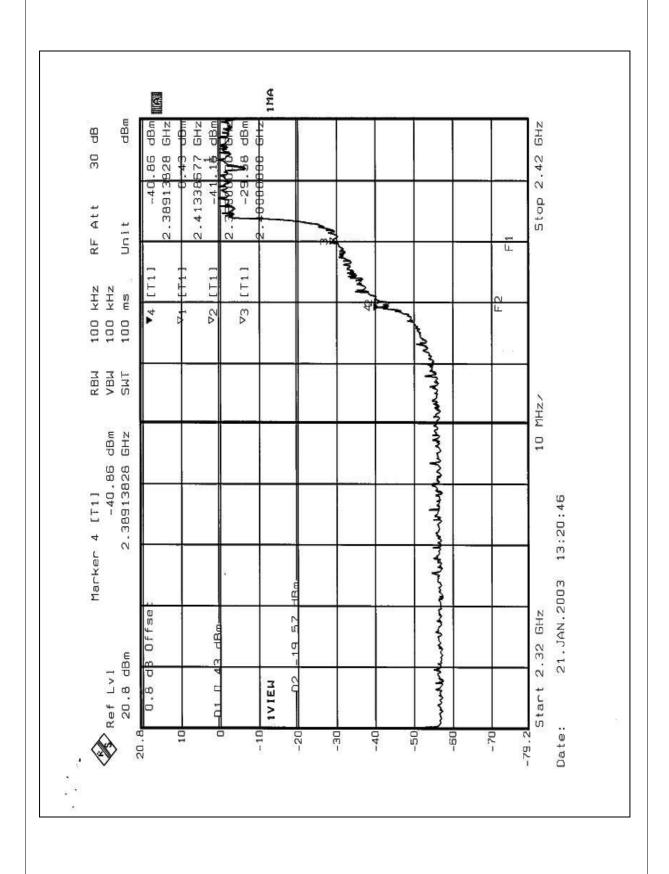
4.6.7 TEST RESULTS (B)

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).

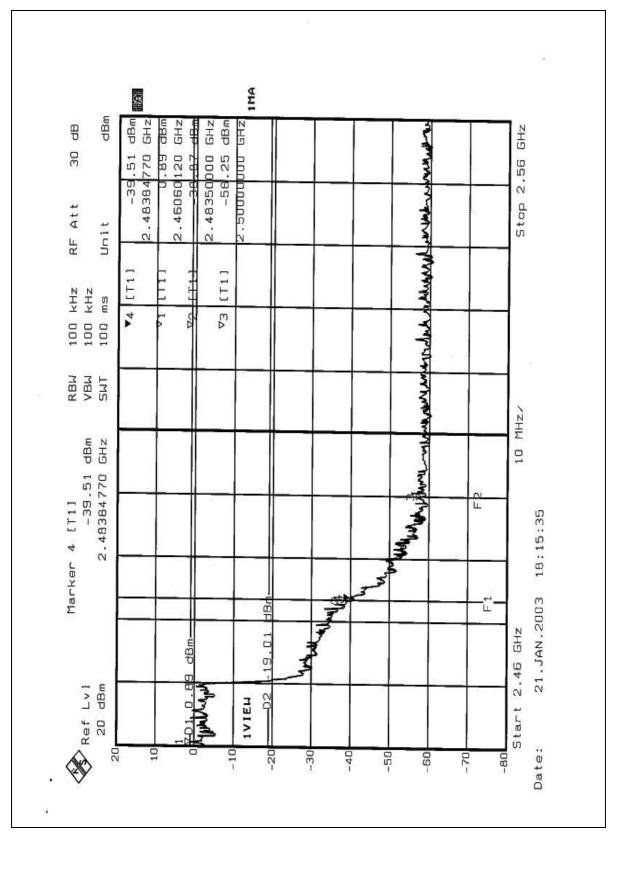
NOTE1: The band edge emission plot on the following first page shows 41.29dB delta between carrier maximum power and local maximum emission in restrict band (2.3891GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.9 (page 27) is 97.4dBuV/m, so the maximum field strength in restrict band is 93.4-41.29=52.11 dBuV/m which is under 54 dBuV/m limit.

NOTE2: The band edge emission plot on the following second page shows 40.40dB delta between carrier maximum power and local maximum emission in restrict band (2.4838GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.9 (page 29) is 93.0dBuV/m, so the maximum field strength in restrict band is 93.0-40.40=52.60 dBuV/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 an	tenna use	ed in this prod	luct is Printe	d Antenna.	There is no	antenna	connector
The ma	aximum G	ain of this an	itenna is onl	y -1dBi.			



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

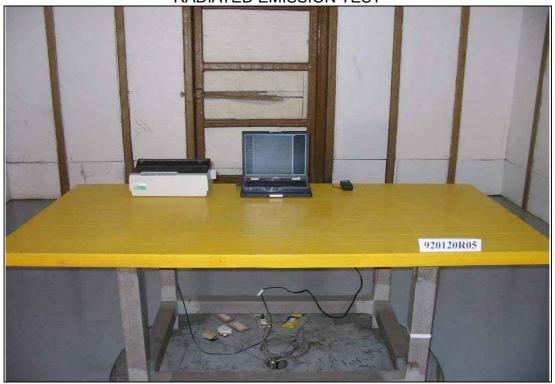


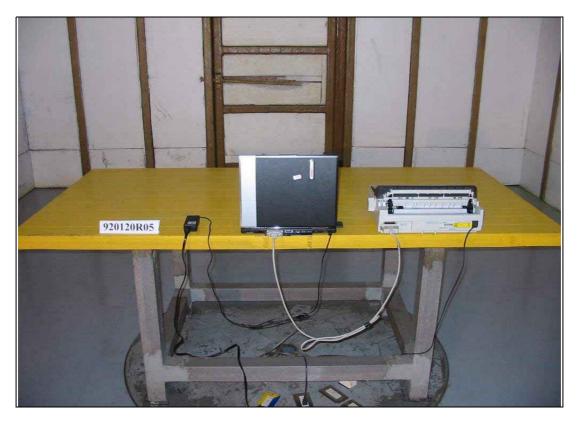






RADIATED EMISSION TEST





FCC ID: O6M-WE602B



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:

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 Hsin Chu EMC Lab:

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 Tel: 886-35-935343

 Fax: 886-2-26052943
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Lin Kou Safety Lab: Lin Kou RF&Telecom Lab

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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.