



FCC TEST REPORT

REPORT NO.: RF921229R02

MODEL NO.: Q802MIG

RECEIVED: December 29, 2003

TESTED: December 30 to 31, 2003

APPLICANT: Qcom Technology Inc.

ADDRESS: 7F,NO.178,MING CHUAN E. RD.SEC 3, TAIPEI
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1 CERTIFICATION

PRODUCT: Mini PCI 802.11g Wireless LAN Adapter
MODEL NO.: Q802MIG
BRAND: Qcom
APPLICANT: Qcom Technology Inc.
TEST ITEM: ENGINEERING SAMPLE
STANDARDS: FCC 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 December 30 to 31, 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.

PREPARED BY: _____


Rita Yi

DATE: Jan. 09, 2004

APPROVED BY: _____


Ellis Wu, Manager

DATE: Jan. 09, 2004



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC 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 -12.72dB at 0.177MHz
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 -3.29dB at 333.00MHz
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

NOTE: The information of measurement uncertainty is available upon the customer's request.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mini PCI 802.11g Wireless LAN Adapter
MODEL NO.	Q802MIG
POWER SUPPLY	3.3Vdc from host equipment
MODULATION TYPE	BPSK, QPSK, CCK, 16QAM, 64QAM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	54/48/36/24/18/12/11/9/6/5.5/2/1Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
MAXIMUM OUTPUT POWER	18.10dBm
ANTENNA TYPE	Printed antenna with 1.41dBi gain
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.For a 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 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 1GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1GHz, 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.
4. Two test results were presented in the following sections, the test result A was for CCK technique and the test result B was for OFDM technique.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Mini PCI 802.11g Wireless LAN Adapter. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247)
ANSI C63.4-1992

All test items 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

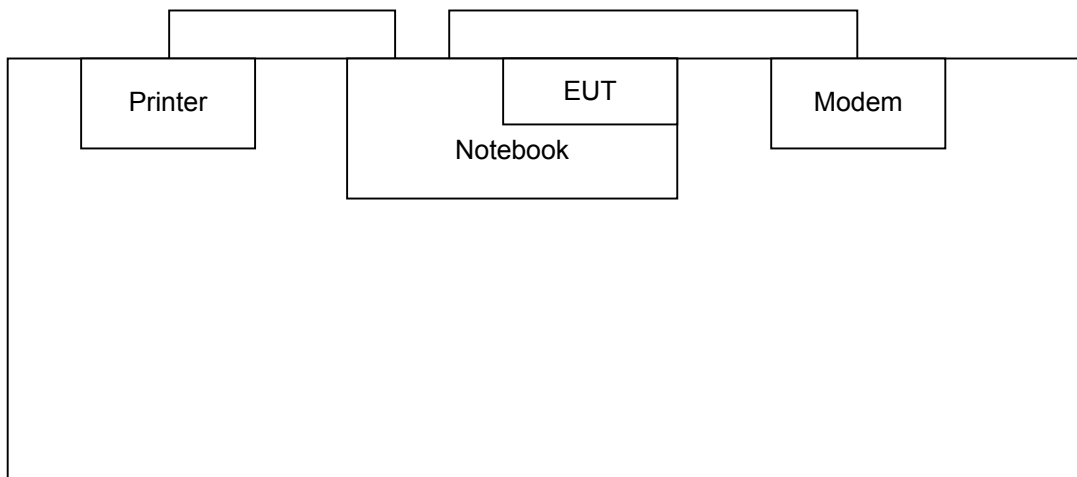
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	PP01L	TW-0791UH-12800-123-5423	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY017058	FCC DoC Approved
3	MODEM	ACEEX	1414	980020516	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2m 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: All power cords of the above support units are non shielded (1.8m).

3.5 CONFIGURATION OF SYSTEM UNDER TEST





4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. All emanations from a class A/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 Receiver	ESCS 30	838251/021	Jan. 20, 2004
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100218	Dec. 09, 2004
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100219	Dec. 09, 2004
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100220	Dec. 09, 2004
*ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 19, 2004
*ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Nov. 19, 2004
Software	Cond-V2M3	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	May 01, 2004
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010770	Mar. 24, 2004
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Apr. 06, 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. 10.
 4. The VCCI Site Registration No. is C-1312.



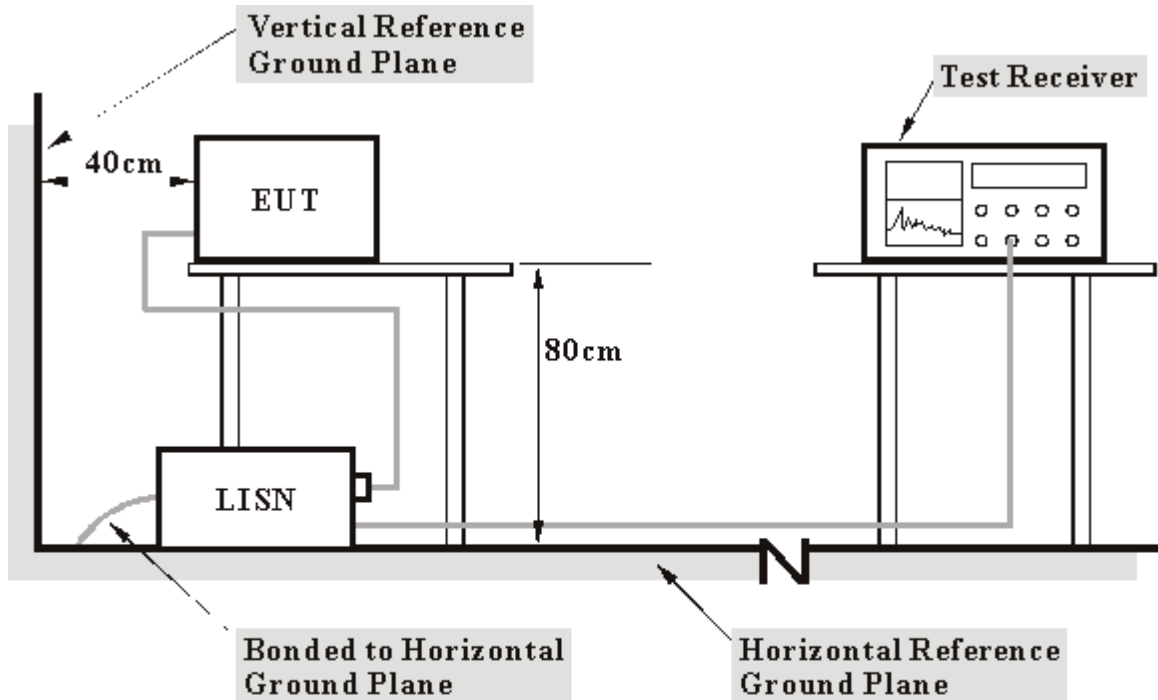
4.1.3 TEST PROCEDURES

- 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 under (Limit - 20dB) was not recorded.

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. Plug the EUT a notebook computer system placed on a testing table.
- b. 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.
- f. Steps b-e are repeated.

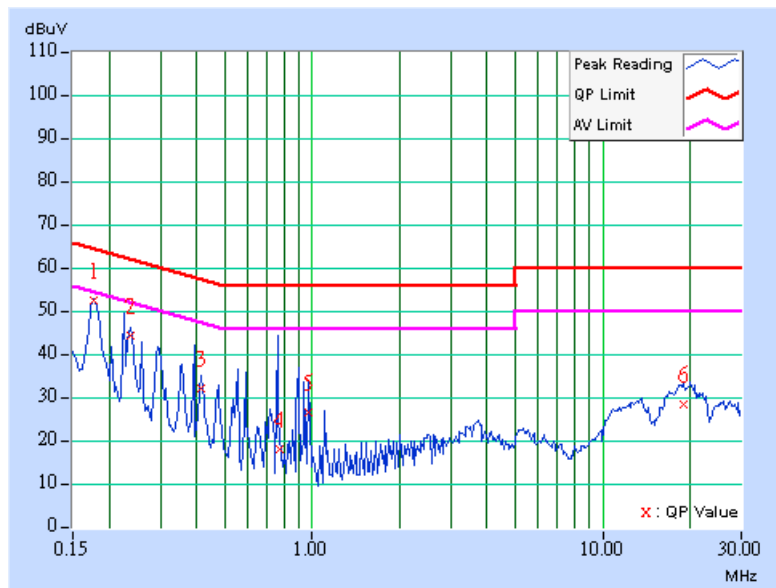


4.1.7 TEST RESULTS

EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
MODE	Channel 1	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.177	0.10	51.79	-	51.89	-	64.61
2	0.236	0.10	43.55	-	43.65	-	62.24	52.24	-18.59	-
3	0.416	0.10	31.43	-	31.53	-	57.52	47.52	-25.99	-
4	0.773	0.16	17.22	-	17.38	-	56.00	46.00	-38.62	-
5	0.974	0.20	25.70	-	25.90	-	56.00	46.00	-30.10	-
6	18.891	0.88	27.72	-	28.60	-	60.00	50.00	-31.40	-

- 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.

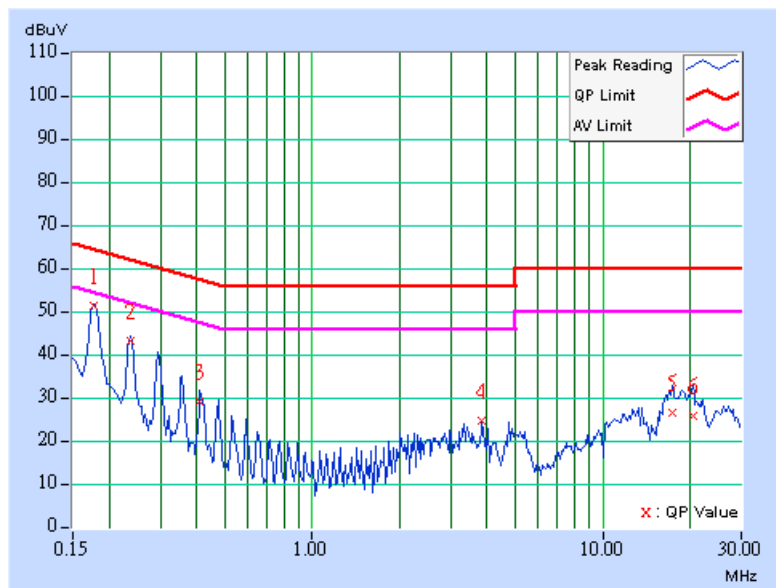




EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
MODE	Channel 1	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.10	50.74	-	50.84	-	64.61	54.61	-13.77	-
2	0.236	0.10	42.41	-	42.51	-	62.24	52.24	-19.73	-
3	0.412	0.10	28.50	-	28.60	-	57.61	47.61	-29.01	-
4	3.852	0.29	24.17	-	24.46	-	56.00	46.00	-31.54	-
5	17.277	0.75	26.02	-	26.77	-	60.00	50.00	-33.23	-
6	20.422	0.82	25.23	-	26.05	-	60.00	50.00	-33.95	-

- 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.

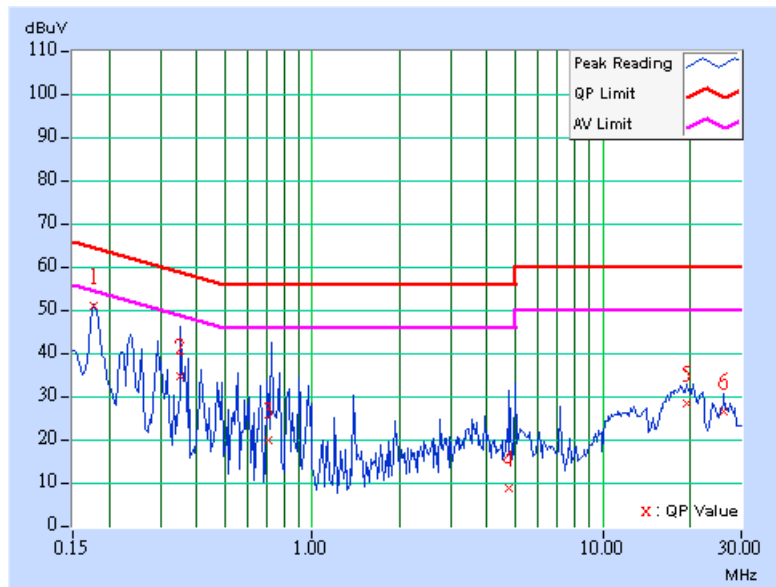




EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
MODE	Channel 6	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.10	50.06	-	50.16	-	64.61	54.61	-14.45	-
2	0.353	0.10	33.53	-	33.63	-	58.89	48.89	-25.26	-
3	0.711	0.15	18.74	-	18.89	-	56.00	46.00	-37.11	-
4	4.781	0.34	7.82	-	8.16	-	56.00	46.00	-47.84	-
5	19.492	0.89	27.39	-	28.28	-	60.00	50.00	-31.72	-
6	26.230	1.20	25.33	-	26.53	-	60.00	50.00	-33.47	-

- 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.

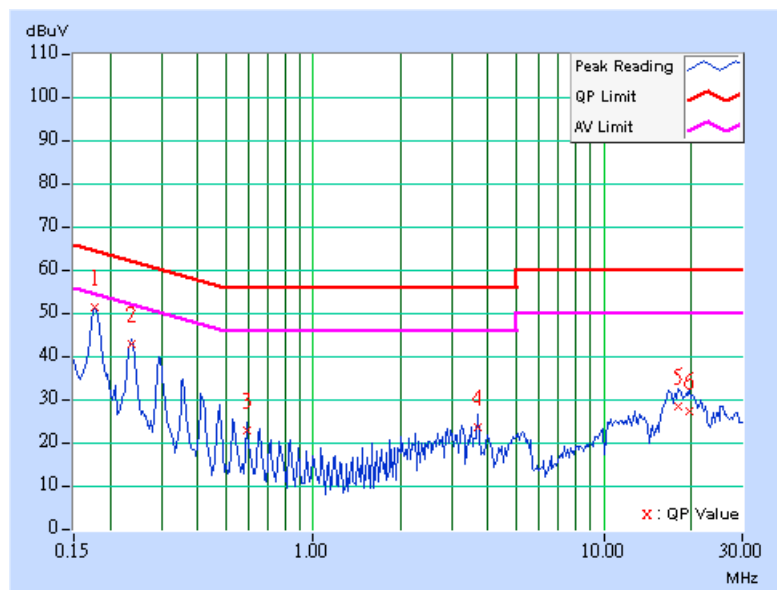




EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
MODE	Channel 6	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.177	0.10	50.55	-	50.65	-	64.61
2	0.236	0.10	42.01	-	42.11	-	62.24	52.24	-20.13	-
3	0.591	0.13	22.11	-	22.24	-	56.00	46.00	-33.76	-
4	3.680	0.28	22.80	-	23.08	-	56.00	46.00	-32.92	-
5	18.035	0.76	27.85	-	28.61	-	60.00	50.00	-31.39	-
6	19.809	0.80	26.79	-	27.59	-	60.00	50.00	-32.41	-

- 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.

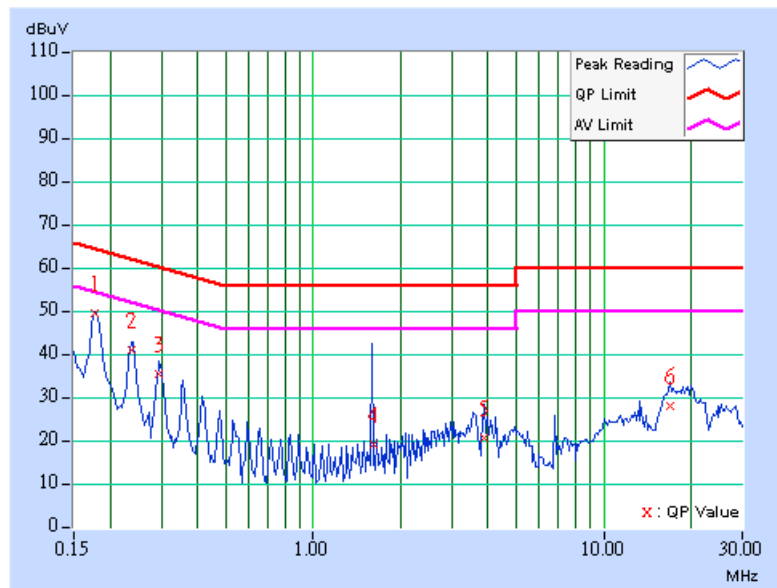




EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
MODE	Channel 11	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.177	0.10	48.86	-	48.96	-	64.61
2	0.236	0.10	40.13	-	40.23	-	62.24	52.24	-22.01	-
3	0.295	0.10	34.77	-	34.87	-	60.40	50.40	-25.53	-
4	1.609	0.20	18.24	-	18.44	-	56.00	46.00	-37.56	-
5	3.863	0.29	19.81	-	20.10	-	56.00	46.00	-35.90	-
6	16.855	0.84	27.25	-	28.09	-	60.00	50.00	-31.91	-

- 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.

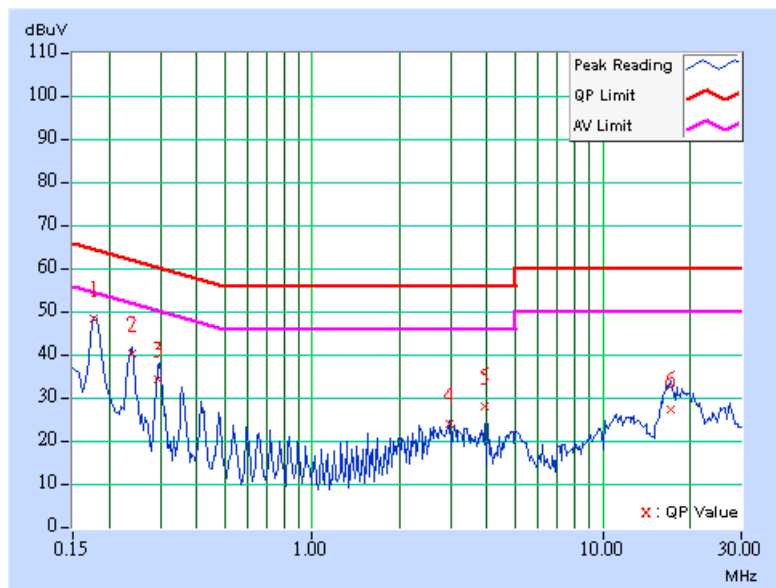




EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
MODE	Channel 11	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.10	47.78	-	47.88	-	64.61	54.61	-16.73	-
2	0.240	0.10	39.65	-	39.75	-	62.10	52.10	-22.35	-
3	0.295	0.10	33.75	-	33.85	-	60.40	50.40	-26.55	-
4	2.980	0.25	23.18	-	23.43	-	56.00	46.00	-32.57	-
5	3.938	0.30	27.51	-	27.81	-	56.00	46.00	-28.19	-
6	17.078	0.74	26.77	-	27.51	-	60.00	50.00	-32.49	-

- 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

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	8593E	3911A07465	Jul. 07, 2004
*HP Preamplifier	8447D	2944A10386	Aug. 12, 2004
* HP Preamplifier	8449B	3008A01201	Nov. 11, 2004
SCHAFFNER Tunable Dipole Antenna	VHBA 9123	459	Jun. 26, 2004
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
*SCHAFFNER TEST RECEIVER	SCR 3501	409	Jan. 26, 2004
* SCHAFFNER BILOG Antenna	CBL6111C	2727	Jul. 15, 2004
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	Jun 30, 2004
* ADT. Turn Table	TT100	0201	NA
* ADT. Tower	AT100	0201	NA
* Software	ADT_Radiated_V 5.14	NA	NA
* ANRITSU RF Switches	MP59B	6100237246	Oct. 17, 2004
* TIMES RF cable	LMR-600	CABLE-ST10-01	Oct. 17, 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 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. 10.
 5. The VCCI Site Registration No. is R-1625.



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.

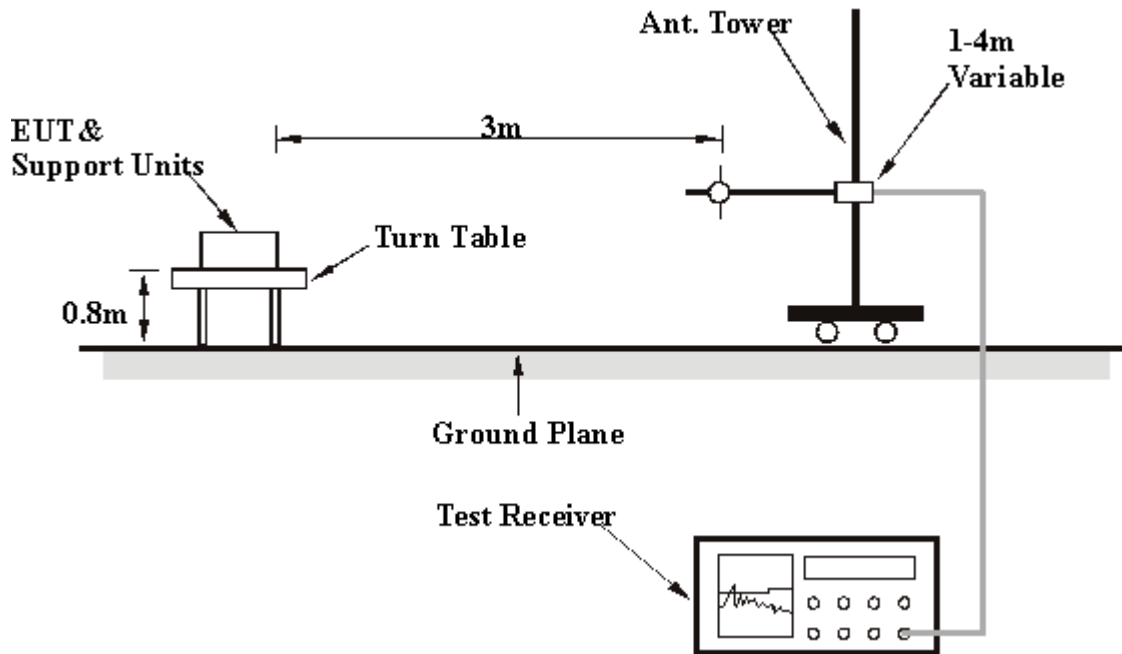
NOTE:

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 10 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	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
MODE	Channel 11	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22 deg. C, 70 % RH, 991hPa	TESTED BY: Martin Lee	

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	55.30	26.89 QP	40.00	-13.11	1.52 H	225	20.12	6.77
2	99.70	38.31 QP	43.50	-5.19	1.66 H	322	27.84	10.47
3	124.01	34.40 QP	43.50	-9.10	1.09 H	115	21.94	12.46
4	132.96	37.46 QP	43.50	-6.04	1.48 H	115	24.97	12.49
5	166.17	34.11 QP	43.50	-9.39	1.47 H	276	23.56	10.55
6	200.00	35.91 QP	43.50	-7.59	1.26 H	96	25.44	10.47
7	213.65	36.61 QP	43.50	-6.89	1.55 H	58	25.20	11.41
8	220.90	33.46 QP	46.00	-12.54	1.45 H	2	21.55	11.91
9	240.15	38.17 QP	46.00	-7.83	1.34 H	217	24.93	13.24
10	266.05	37.07 QP	46.00	-8.93	1.00 H	164	21.75	15.32
11	280.23	37.78 QP	46.00	-8.22	1.42 H	278	22.21	15.57
12	299.13	38.92 QP	46.00	-7.08	1.18 H	289	22.66	16.26
13	333.00	42.71 QP	46.00	-3.29	1.06 H	309	25.77	16.94
14	401.50	41.48 QP	46.00	-4.52	1.33 H	334	22.03	19.45
15	632.50	37.57 QP	46.00	-8.43	1.53 H	45	12.35	25.22
16	665.80	36.35 QP	46.00	-9.65	1.67 H	3	10.63	25.72

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 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.



EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
MODE	Channel 11	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22 deg. C, 70 % RH, 991hPa	TESTED BY: Martin Lee	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	33.31	35.66 QP	40.00	-4.34	1.28 V	284	17.80	17.86
2	72.60	31.67 QP	40.00	-8.33	1.38 V	230	24.98	6.69
3	78.25	29.80 QP	40.00	-10.20	1.55 V	315	22.24	7.56
4	124.03	38.98 QP	43.50	-4.52	1.21 V	148	26.52	12.46
5	131.03	39.62 QP	43.50	-3.88	1.15 V	65	27.14	12.48
6	152.60	31.06 QP	43.50	-12.44	1.37 V	44	19.65	11.41
7	166.35	29.61 QP	43.50	-13.89	1.51 V	108	19.07	10.54
8	199.25	31.12 QP	43.50	-12.38	1.18 V	248	20.66	10.46
9	213.86	29.15 QP	43.50	-14.35	1.10 V	161	17.72	11.43
10	240.15	32.20 QP	46.00	-13.80	1.46 V	220	18.96	13.24
11	299.30	31.34 QP	46.00	-14.66	1.90 V	181	15.08	16.26
12	335.00	36.45 QP	46.00	-9.55	1.06 V	95	19.47	16.98
13	399.80	37.89 QP	46.00	-8.11	1.16 V	157	18.48	19.41
14	632.50	35.95 QP	46.00	-10.05	1.25 V	0	10.73	25.22
15	667.50	38.97 QP	46.00	-7.03	1.00 V	13	13.23	25.73

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 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	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
CHANNEL	Channel 1	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	22 deg. C, 70 % RH, 991hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Martin Lee		

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	2390.00	35.95 PK	74.00	-38.05	1.00 H	178	2.77	33.18
1	2390.00	27.84 AV	54.00	-26.16	1.00 H	178	-5.34	33.18
2	*2412.00	102.91 PK			1.00 H	301	72.67	30.24
2	*2412.00	94.74 AV			1.00 H	301	64.50	30.24
3	4824.00	53.20 PK	74.00	-20.80	1.54 H	57	12.59	40.61
3	4824.00	44.50 AV	54.00	-9.50	1.54 H	57	3.89	40.61
4	9648.00	60.10 PK	74.00	-13.90	1.78 H	332	11.66	48.44
4	9648.00	47.60 AV	54.00	-6.40	1.78 H	332	-0.84	48.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	2390.00	37.77 PK	74.00	-36.23	1.00 V	170	4.59	33.18
1	2390.00	29.89 AV	54.00	-24.11	1.00 V	170	-3.29	33.18
2	*2412.00	108.24 PK			1.00 V	356	78.00	30.24
2	*2412.00	100.24 AV			1.00 V	356	70.00	30.24
3	4824.00	53.39 PK	74.00	-20.61	1.19 V	285	12.78	40.61
3	4824.00	46.76 AV	54.00	-7.24	1.19 V	285	6.15	40.61
4	9648.00	60.20 PK	74.00	-13.80	1.00 V	286	11.76	48.44
4	9648.00	48.23 AV	54.00	-5.77	1.00 V	286	-0.21	48.44

- REMARKS:**
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.



EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
CHANNEL	Channel 6	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	22 deg. C, 70 % RH, 991hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Martin Lee		

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	*2437.00	103.64 PK			1.00 H	83	73.33	30.31
1	*2437.00	95.64 AV			1.00 H	83	65.33	30.31
2	4874.00	52.40 PK	74.00	-21.60	1.35 H	187	11.80	40.60
2	4874.00	44.98 AV	54.00	-9.02	1.35 H	187	4.38	40.60
3	9748.00	60.12 PK	74.00	-13.88	1.68 H	325	11.47	48.65
3	9748.00	48.31 AV	54.00	-5.69	1.68 H	325	-0.34	48.65

ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2437.00	106.81 PK			1.00 V	246	76.50	30.31
1	*2437.00	98.48 AV			1.00 V	246	68.17	30.31
2	4874.00	51.83 PK	74.00	-22.17	1.59 V	62	11.23	40.60
2	4874.00	43.57 AV	54.00	-10.43	1.59 V	62	2.97	40.60
3	9748.00	59.54 PK	74.00	-14.46	1.54 V	285	10.89	48.65
3	9748.00	47.87 AV	54.00	-6.13	1.54 V	285	-0.78	48.65

- REMARKS:**
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.



EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
CHANNEL	Channel 11	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	22 deg. C, 70 % RH, 991hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Martin Lee		

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	*2462.00	106.54 PK			1.12 H	18	76.17	30.37
1	*2462.00	98.87 AV			1.12 H	18	68.50	30.37
2	2483.50	40.28 PK	74.00	-33.72	1.12 H	168	6.72	33.56
2	2483.50	32.35 AV	54.00	-21.65	1.12 H	168	-1.21	33.56
3	4924.00	51.66 PK	74.00	-22.34	1.12 H	226	11.02	40.64
3	4924.00	42.39 AV	54.00	-11.61	1.12 H	226	1.75	40.64
4	9848.00	59.78 PK	74.00	-14.22	1.74 H	287	10.77	49.01
4	9848.00	48.98 AV	54.00	-5.02	1.74 H	287	-0.03	49.01

ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2462.00	108.04 PK			1.07 V	11	77.67	30.37
1	*2462.00	100.04 AV			1.07 V	11	69.67	30.37
2	2483.50	45.78 PK	74.00	-28.22	1.14 V	348	12.22	33.56
2	2483.50	37.96 AV	54.00	-16.04	1.14 V	348	4.40	33.56
3	4924.00	53.49 PK	74.00	-20.51	1.15 V	283	12.85	40.64
3	4924.00	47.25 AV	54.00	-6.75	1.15 V	283	6.61	40.64
4	9848.00	59.90 PK	74.00	-14.10	1.20 V	252	10.89	49.01
4	9848.00	49.30 AV	54.00	-4.70	1.20 V	252	0.29	49.01

- REMARKS:**
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.



4.2.9. TEST RESULTS (B)

EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
CHANNEL	Channel 1	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	22 deg. C, 70 % RH, 991hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Martin Lee		

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	2390.00	42.56 PK	74.00	-31.44	1.74 H	327	9.38	33.18
1	2390.00	33.74 AV	54.00	-20.26	1.74 H	327	0.56	33.18
2	*2412.00	101.57 PK			1.15 H	220	71.33	30.24
2	*2412.00	92.24 AV			1.15 H	220	62.00	30.24
3	4824.00	52.20 PK	74.00	-21.80	1.02 H	184	11.59	40.61
3	4824.00	43.24 AV	54.00	-10.76	1.02 H	184	2.63	40.61
4	9648.00	56.99 PK	71.88	-14.89	1.74 H	327	8.55	48.44
4	9648.00	45.74 AV	63.06	-17.32	1.74 H	327	-2.70	48.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	2390.00	44.46 PK	74.00	-29.54	1.57 V	109	11.28	33.18
1	2390.00	35.07 AV	54.00	-18.93	1.57 V	109	1.89	33.18
2	*2412.00	103.07 PK			1.06 V	255	72.83	30.24
2	*2412.00	93.57 AV			1.06 V	255	63.33	30.24
3	4824.00	54.35 PK	74.00	-19.65	1.18 V	285	13.74	40.61
3	4824.00	47.79 AV	54.00	-6.21	1.18 V	285	7.18	40.61
4	9648.00	58.99 PK	73.78	-14.79	1.03 V	182	10.55	48.44
4	9648.00	47.24 AV	64.39	-17.15	1.03 V	182	-1.20	48.44

- REMARKS:**
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.



EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
CHANNEL	Channel 6	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	22 deg. C, 70 % RH, 991hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Martin Lee		

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	*2437.00	103.48 PK			1.14 H	15	73.17	30.31
1	*2437.00	93.98 AV			1.14 H	15	63.67	30.31
2	4874.00	50.75 PK	74.00	-23.25	1.29 H	279	10.15	40.60
2	4874.00	43.55 AV	54.00	-10.45	1.29 H	279	2.95	40.60
3	9748.00	58.63 PK	72.75	-14.12	1.46 H	294	9.98	48.65
3	9748.00	46.55 AV	63.33	-16.78	1.46 H	294	-2.10	48.65

ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2437.00	104.98 PK			1.19 V	190	74.67	30.31
1	*2437.00	95.98 AV			1.19 V	190	65.67	30.31
2	4874.00	53.20 PK	74.00	-20.80	1.03 V	288	12.60	40.60
2	4874.00	46.40 AV	54.00	-7.60	1.03 V	288	5.80	40.60
3	9748.00	58.33 PK	79.73	-21.40	1.19 V	187	9.68	48.65
3	9748.00	46.85 AV	70.17	-23.32	1.19 V	187	-1.80	48.65

- REMARKS:**
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.



EUT	Mini PCI 802.11g Wireless LAN Adapter	MODEL	Q802MIG
CHANNEL	Channel 11	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	22 deg. C, 70 % RH, 991hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Martin Lee		

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	*2462.00	100.37 PK			1.06 H	96	70.00	30.37
1	*2462.00	90.54 AV			1.06 H	96	60.17	30.37
2	2483.50	46.18 PK	74.00	-27.82	1.22 H	255	12.62	33.56
2	2483.50	37.03 AV	54.00	-16.97	1.22 H	255	3.47	33.56
3	4924.00	45.88 PK	74.00	-28.12	1.15 H	225	5.24	40.64
3	4924.00	36.80 AV	54.00	-17.20	1.15 H	225	-3.84	40.64
4	9848.00	59.83 PK	75.39	-15.56	1.74 H	290	10.82	49.01
4	9848.00	48.75 AV	66.24	-17.49	1.74 H	290	-0.26	49.01

ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	*2462.00	105.37 PK			1.05 V	10	75.00	30.37
1	*2462.00	95.54 AV			1.05 V	10	65.17	30.37
2	2483.50	54.35 PK	74.00	-19.65	1.08 V	272	20.79	33.56
2	2483.50	44.77 AV	54.00	-9.23	1.08 V	272	11.21	33.56
3	4924.00	54.70 PK	74.00	-19.30	1.16 V	284	14.06	40.64
3	4924.00	47.95 AV	54.00	-6.05	1.16 V	284	7.31	40.64
4	9848.00	59.94 PK	83.56	-23.61	1.15 V	201	10.93	49.01
4	9848.00	49.19 AV	73.98	-24.79	1.15 V	201	0.18	49.01

- REMARKS:**
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.



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	Aug. 12, 2004

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

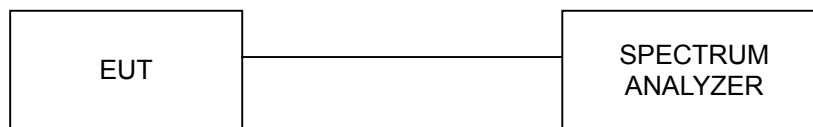
4.3.3 TEST PROCEDURE

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 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

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.