



FCC TEST REPORT

REPORT NO.: RF920514R03A

MODEL NO.: BCM94306MP

RECEIVED: July 17, 2003

TESTED: July 18 ~ Aug 1, 2003

APPLICANT: QUANTA COMPUTER INC.

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ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,
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0528
ILAC MRA



Lab Code: 200102-0



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1 CERTIFICATION

PRODUCT : 802.11g mini-PCI transmitter module
MODEL NO. : BCM94306MP
BRAND NAME : Broadcom
TESTED ITEM: ENGINEERING SAMPLE
APPLICANT : QUANTA COMPUTER 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 July 18 ~ Aug 1, 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: Wendy Liao, **DATE:** July 22, 2003
Wendy Liao

APPROVED BY: Dr. Alan Lane, **DATE:** July 22, 2003
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
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit Minimum passing margin is -14.08dBuV at 0.170MHz
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 -3.90dBuV/m at 159.99MHz
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	802.11g mini-PCI transmitter module
MODEL NO.	BCM94306MP
POWER SUPPLY	3.3VDC from host equipment
MODULATION TYPE	DSSS, OFDM
TRANSFER RATE	up to 54Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
CHANNEL SPACING	5MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	12.02dBm
ANTENNA TYPE	Inverted F with 1.68dBi and 2dBi gain
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. This report is issued as a supplementary report of ADT report no.: RF920514R03. The models in this report are identical to the original application one.
2. This report is prepared for FCC class II permissive change. The difference compared with the original design is adding another antenna types to this EUT for the test. The antenna types in this report are Inverted F antenna with 1.68dBi and 2dBi gain which model name is Arcade (200ARC), Aquila-C (X05, X10) separately.
3. The EUT supports 802.11g standards to provide maximum data rates of 54Mbps.
4. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided 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, the worst case, 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 cases, were chosen for final test.
4. Test result (A) is for CCK technique and test result (B) is for OFDM technique.
5. For spurious measurement, the test results with 1.6Bi and 2dBi gain were presented in the test report.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 802.11g mini-PCI transmitter module. 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	Notebook	Dell	PP01L	TW-09C748- 12800-190- B220	FCC DoC
2	PRINTER	EPSON	LQ-300+	DCGY017096	FCC DoC Approved
3	MODEM	ACEEX	1414	980020569	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).



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	ESCS30	847793/022	Mar. 10, 2004
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH2-Z5	828075/003	July 08, 2004
ROHDE & SCHWARZ 200-A Four-line V-Network	ENV4200	830326/018	Oct. 30, 2003
* ROHDE & SCHWARZ 4-wire ISN	ENY41	838119/028	Nov. 29, 2003
* ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/018	Nov. 29, 2003
EMCO-L.I.S.N. (for peripheral)	3825/2	90031627	July 08, 2004
Software	Cond-V2M1	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C05.01	May. 23, 2004
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-305	Feb. 23, 2004
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-306	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. 5.
 4. The VCCI Site Registration No. is C-1093.



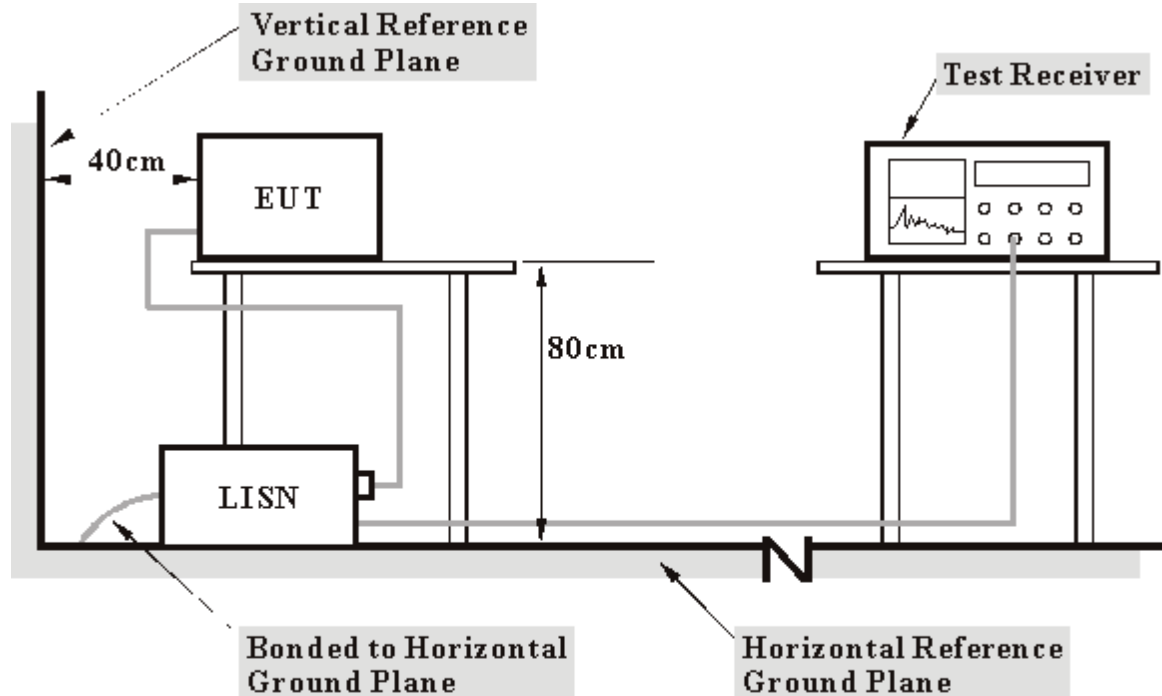
4.1.3 TEST PROCEDURES

- 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 150kHz to 30MHz 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.
- 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 printer and the printer prints them on paper.



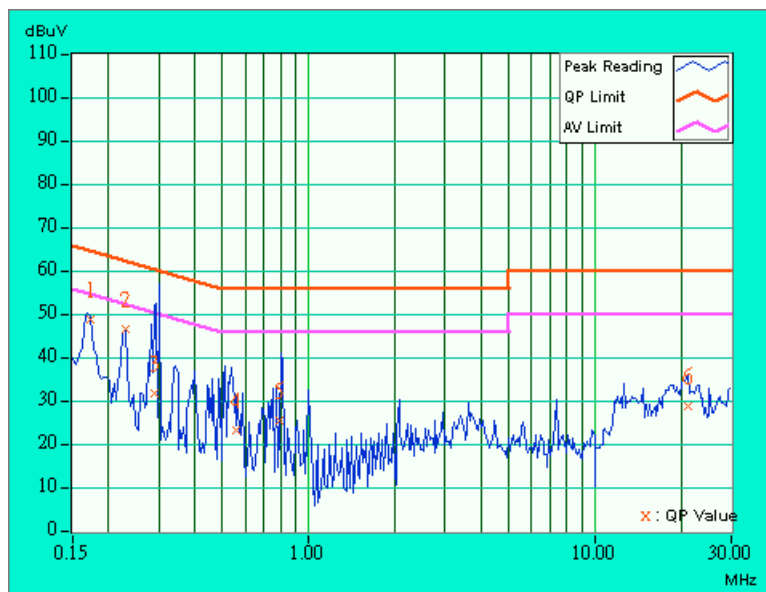
4.1.7 TEST RESULTS

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 1	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	0.173	0.10	47.74	-	47.84	-	64.79	54.79	-16.95	-
2	0.228	0.10	45.38	-	45.48	-	62.52	52.52	-17.04	-
3	0.289	0.10	30.69	-	30.79	-	60.54	50.54	-29.75	-
4	0.560	0.13	21.97	-	22.10	-	56.00	46.00	-33.90	-
5	0.794	0.17	24.37	-	24.54	-	56.00	46.00	-31.46	-
6	21.297	1.25	27.76	-	29.01	-	60.00	50.00	-30.99	-

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.



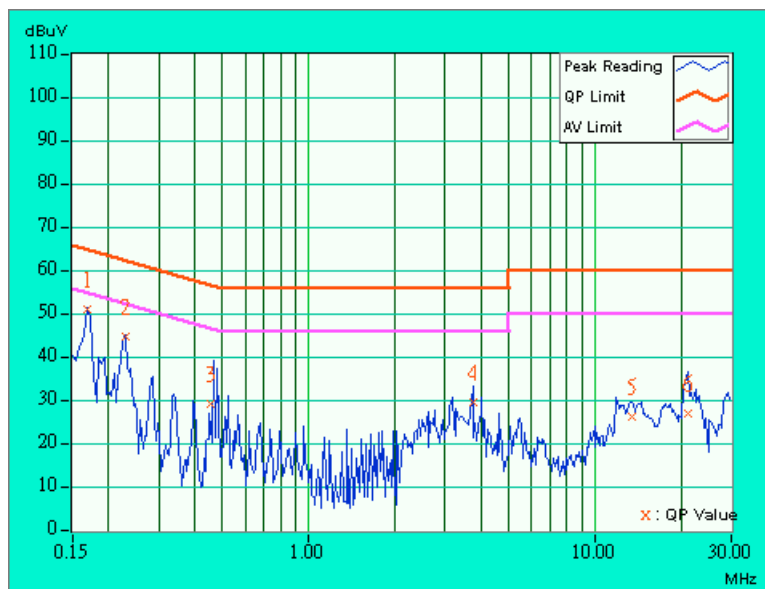


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 1	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	0.170	0.10	50.39	-	50.49	-	64.98	54.98	-14.49	-
2	0.228	0.10	43.79	-	43.89	-	62.52	52.52	-18.63	-
3	0.455	0.11	28.42	-	28.53	-	56.78	46.78	-28.25	-
4	3.742	0.23	28.56	-	28.79	-	56.00	46.00	-27.21	-
5	13.523	0.50	25.57	-	26.07	-	60.00	50.00	-33.93	-
6	21.258	0.90	26.26	-	27.16	-	60.00	50.00	-32.84	-

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.



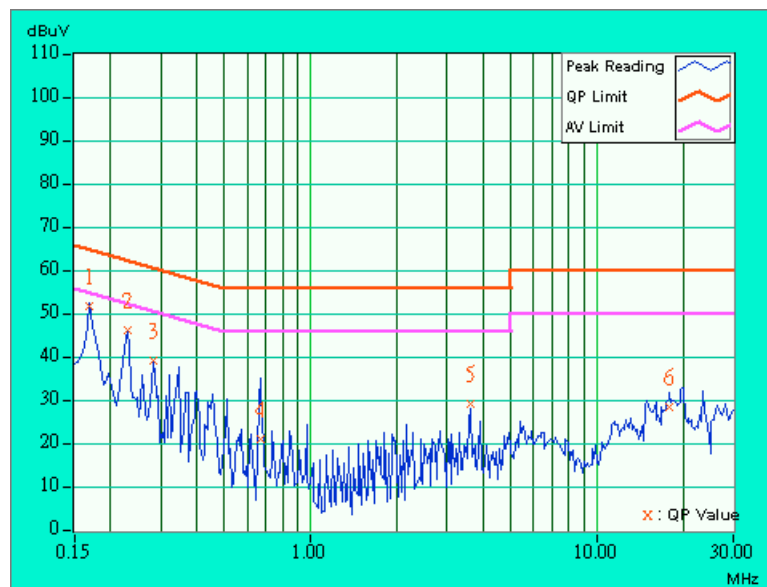


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 6	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	0.170	0.10	50.80	-	50.90	-	64.98	54.98	-14.08	-
2	0.228	0.10	45.22	-	45.32	-	62.52	52.52	-17.20	-
3	0.283	0.10	38.20	-	38.30	-	60.73	50.73	-22.43	-
4	0.670	0.14	19.99	-	20.13	-	56.00	46.00	-35.87	-
5	3.633	0.31	28.02	-	28.33	-	56.00	46.00	-27.67	-
6	17.930	1.07	27.33	-	28.40	-	60.00	50.00	-31.60	-

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.



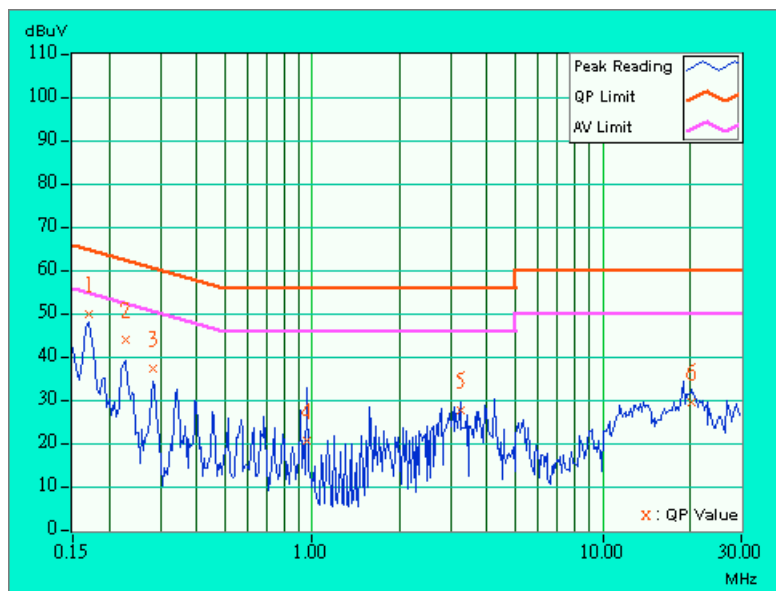


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 6	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	0.170	0.10	48.97	-	49.07	-	64.98	54.98	-15.91	-
2	0.228	0.10	43.31	-	43.41	-	62.52	52.52	-19.11	-
3	0.283	0.10	36.37	-	36.47	-	60.73	50.73	-24.26	-
4	0.963	0.19	19.67	-	19.86	-	56.00	46.00	-36.14	-
5	3.238	0.23	26.90	-	27.13	-	56.00	46.00	-28.87	-
6	20.172	0.91	28.59	-	29.50	-	60.00	50.00	-30.50	-

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.



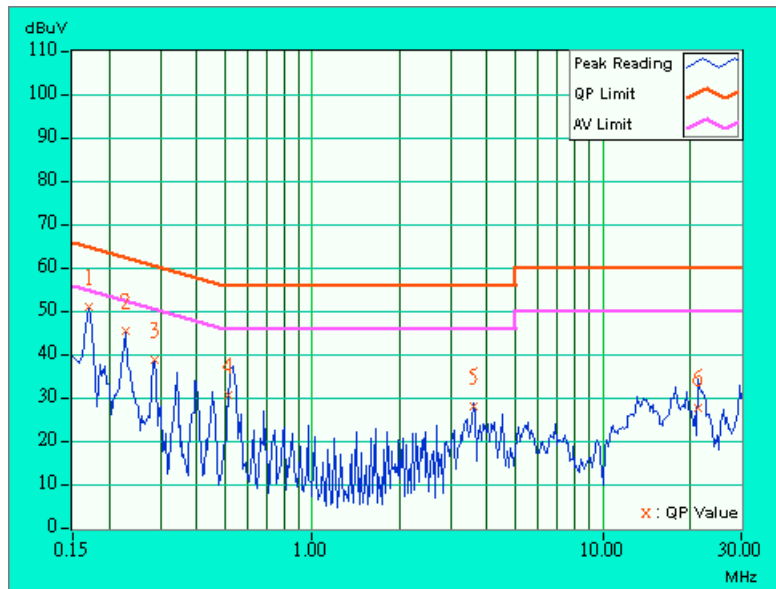


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	0.170	0.10	49.79	-	49.89	-	64.98	54.98	-15.09	-
2	0.228	0.10	44.18	-	44.28	-	62.52	52.52	-18.24	-
3	0.287	0.10	37.50	-	37.60	-	60.62	50.62	-23.02	-
4	0.512	0.12	29.35	-	29.47	-	56.00	46.00	-26.53	-
5	3.586	0.31	26.74	-	27.05	-	56.00	46.00	-28.95	-
6	21.395	1.25	26.56	-	27.81	-	60.00	50.00	-32.19	-

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.



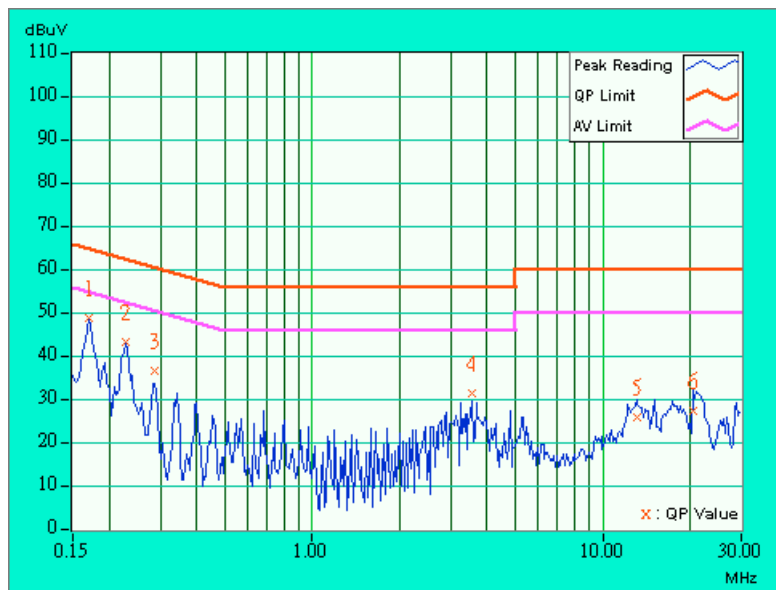


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	48.09	-	48.19	-	64.98	54.98	-16.79	-
2	0.228	0.10	42.47	-	42.57	-	62.52	52.52	-19.95	-
3	0.287	0.10	35.82	-	35.92	-	60.62	50.62	-24.70	-
4	3.531	0.23	30.64	-	30.87	-	56.00	46.00	-25.13	-
5	13.152	0.48	24.91	-	25.39	-	60.00	50.00	-34.61	-
6	20.609	0.90	26.44	-	27.34	-	60.00	50.00	-32.66	-

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.





5 TEST TYPES AND RESULTS

5.1 RADIATED EMISSION MEASUREMENT

5.1.1 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.



5.1.2 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	Feb. 13, 2004
SCHAFFNER Tunable Dipole Antenna	VHBA 9123	459	Nov. 22, 2003
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
* CHASE BILOG Antenna	CBL6112B	2751	March 21, 2004
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	Jun 30, 2004
* EMCO Horn Antenna	3115	9312-4192	Mar. 23 2004
* CHANCE Turn Table & Tower Controller	ACS-I	NA	NA
* Software	ADT_Radiate d_V5.14	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.



5.1.3 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.

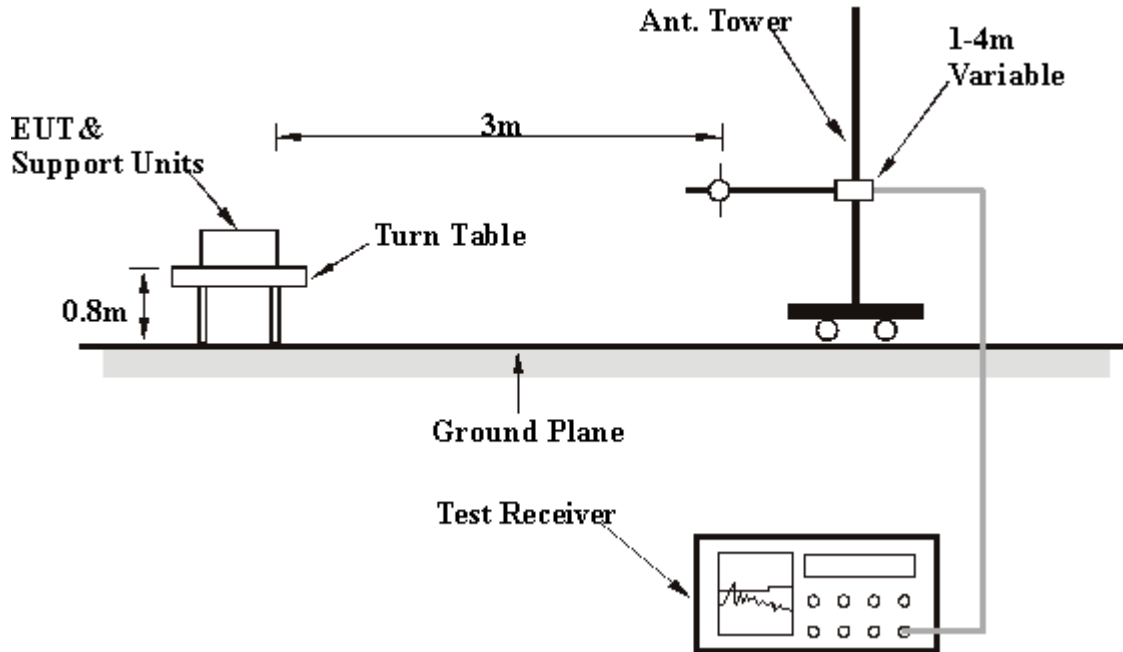
NOTE:

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.

5.1.4 DEVIATION FROM TEST STANDARD

No deviation

5.1.5 TEST SETUP



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

5.1.6 EUT OPERATING CONDITIONS

Same as 4.1.6



5.1.7 TEST RESULTS (A)

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11 (1.68dBi gain)	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	120.02	30.6 QP	43.50	-12.90	1.25 H	6	17.90	12.70
2	159.99	39.6 QP	43.50	-3.90	1.55 H	3	29.00	10.60
3	200.09	38.9 QP	43.50	-4.60	1.18 H	0	28.80	10.10
4	240.00	34.3 QP	46.00	-11.70	1.96 H	351	21.70	12.60
5	280.00	34.5 QP	46.00	-11.50	1.59 H	76	20.40	14.10
6	320.00	32.5 QP	46.00	-13.50	1.42 H	3	17.60	15.00
7	360.00	39.0 QP	46.00	-7.00	1.08 H	34	22.90	16.10
8	480.00	30.7 QP	46.00	-15.30	1.18 H	3	11.90	18.90

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	120.04	36.5 QP	43.50	-7.00	1.29 V	2	23.80	12.70
2	160.04	27.8 QP	43.50	-15.80	1.17 V	84	17.20	10.60
3	200.04	27.1 QP	43.50	-16.40	1.31 V	2	17.00	10.10
4	240.01	24.8 QP	46.00	-21.20	1.14 V	194	12.20	12.60
5	360.01	29.7 QP	46.00	-16.30	1.15 V	2	13.70	16.10
6	640.01	28.9 QP	46.00	-17.10	1.71 V	10	7.90	21.10

- 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.



EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11 (2dBi gain)	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	120.00	37.2 QP	43.50	-6.30	1.13 H	308	24.90	12.30
2	160.00	37.0 QP	43.50	-6.50	1.30 H	27	22.70	14.30
3	200.00	36.0 QP	43.50	-7.50	1.25 H	224	24.80	11.20
4	240.00	34.8 QP	46.00	-11.20	1.04 H	221	21.60	13.20
5	278.75	34.6 QP	46.00	-11.40	1.12 H	70	20.00	14.60
6	319.57	26.7 QP	46.00	-19.30	1.05 H	223	11.10	15.60
7	359.44	36.8 QP	46.00	-9.20	1.36 H	32	20.10	16.70
8	400.51	33.9 QP	46.00	-12.10	1.16 H	164	16.20	17.70
9	480.03	28.9 QP	46.00	-17.10	1.08 H	2	9.10	19.70
10	600.81	30.2 QP	46.00	-15.80	1.29 H	147	7.60	22.60
11	639.99	36.4 QP	46.00	-9.60	1.21 H	2	13.30	23.10

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	120.40	35.0 QP	43.50	-8.50	1.71 V	315	22.70	12.30
2	160.00	35.0 QP	43.50	-8.50	1.13 V	227	20.70	14.30
3	201.40	32.0 QP	43.50	-11.50	1.10 V	74	20.70	11.30
4	240.00	29.8 QP	46.00	-16.20	1.31 V	62	16.60	13.20
5	320.00	31.0 QP	46.00	-15.00	1.32 V	62	15.40	15.60
6	360.00	36.0 QP	46.00	-10.00	1.14 V	138	19.30	16.70
7	480.01	28.3 QP	46.00	-17.70	1.00 V	46	8.50	19.70
8	640.01	32.9 QP	46.00	-13.10	1.21 V	214	9.70	23.10
9	704.00	32.5 QP	46.00	-13.50	1.58 V	2	8.40	24.10

- 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.



EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	CCK (1.68dBi gain)	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 1		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	43.6 PK	74.00	-30.40	1.08 H	0	14.90	28.60
2	*2412.00	102.8 PK			1.08 H	0	70.30	32.50
2	*2412.00	83.6 AV			1.08 H	0	51.10	32.50
3	3216.00	44.4 PK	74.00	-29.60	1.15 H	35	9.60	34.80
4	4824.00	47.0 PK	74.00	-27.00	1.09 H	34	8.70	38.30

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	1608.00	38.0 PK	74.00	-36.00	1.12 V	34	9.30	28.60
2	*2412.00	99.5 PK			1.00 V	137	67.00	32.50
2	*2412.00	81.9 AV			1.00 V	137	49.40	32.50
3	3216.00	46.4 PK	74.00	-27.60	1.15 V	34	11.60	34.80
4	4824.00	48.2 PK	74.00	-25.80	1.35 V	62	9.90	38.30

- 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	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	CCK (2dBi gain)	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 1		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	41.9 PK	74.00	-32.10	1.13 H	62	11.40	30.50
2	*2412.00	100.0 PK			1.05 H	43	65.70	34.30
2	*2412.00	81.1 AV			1.05 H	43	46.80	34.30
3	3216.00	49.1 PK	74.00	-24.90	1.39 H	94	11.40	37.70
4	4824.00	48.9 PK	74.00	-25.10	1.27 H	318	6.90	42.00

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	1608.00	42.4 PK	74.00	-31.60	1.82 V	94	11.90	30.50
2	*2412.00	103.1 PK			1.28 V	352	68.80	34.30
2	*2412.00	83.8 AV			1.28 V	352	49.40	34.30
3	3216.00	47.6 PK	74.00	-26.40	1.44 V	138	9.90	37.70
4	4824.00	48.7 PK	74.00	-25.30	1.44 V	138	6.70	42.00

- 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	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	CCK (1.68dBi gain)	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 6		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	44.3 PK	74.00	-29.70	1.20 H	41	15.60	28.70
2	*2437.00	104.6 PK			1.16 H	34	72.00	32.60
2	*2437.00	85.7 AV			1.16 H	34	53.10	32.60
3	3248.00	44.6 PK	74.00	-29.40	1.27 H	35	9.60	34.90
4	4874.00	48.3 PK	74.00	-25.70	1.12 H	74	9.70	38.60

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	1624.20	45.0 PK	74.00	-29.00	1.19 V	27	16.30	28.70
2	*2437.00	99.1 PK			1.65 V	74	66.50	32.60
2	*2437.00	80.4 AV			1.65 V	74	47.80	32.60
3	3248.00	45.4 PK	74.00	-28.60	1.45 V	91	10.40	34.90
4	4874.00	47.3 PK	74.00	-26.70	1.37 V	82	8.70	38.60

- 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	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	CCK (2dBi gain)	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 6		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	42.0 PK	74.00	-32.00	1.18 H	24	11.40	30.60
2	*2437.00	97.4 PK			1.14 H	85	62.90	34.40
2	*2437.00	78.1 AV			1.14 H	85	43.70	34.40
3	3248.00	45.8 PK	74.00	-28.20	1.05 H	334	8.00	37.80
4	4874.00	46.2 PK	74.00	-27.80	1.13 H	34	4.10	42.10

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	1624.50	41.9 PK	74.00	-32.10	1.10 V	207	11.30	30.60
2	*2437.00	101.5 PK			1.23 V	350	67.10	34.40
2	*2437.00	81.6 AV			1.23 V	350	47.20	34.40
3	3248.00	49.2 PK	74.00	-24.80	1.35 V	225	11.40	37.80
4	4874.00	49.0 PK	74.00	-25.00	1.12 V	34	6.90	42.10

- 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	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	CCK (1.68dBi gain)	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 11		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	43.2 PK	74.00	-30.80	1.18 H	85	14.40	28.70
2	*2462.00	102.3 PK			1.42 H	264	69.50	32.80
2	*2462.00	82.8 AV			1.42 H	264	50.00	32.80
3	3282.00	45.1 PK	74.00	-28.90	1.01 H	41	10.00	35.10
4	4924.00	49.5 PK	74.00	-24.50	1.15 H	34	10.70	38.70

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	1641.00	41.7 PK	74.00	-32.30	1.31 V	281	12.90	28.70
2	*2462.00	103.9 PK			1.00 V	24	71.10	32.80
2	*2462.00	84.2 AV			1.00 V	24	51.40	32.80
3	3282.00	45.8 PK	74.00	-28.20	1.72 V	341	10.70	35.10
4	4924.00	48.7 PK	74.00	-25.30	1.52 V	74	9.90	38.70

- 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	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	CCK (2dBi gain)	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 11		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	43.9 PK	74.00	-30.10	1.52 H	48	13.10	30.70
2	*2462.00	95.5 PK			1.20 H	34	61.00	34.50
2	*2462.00	76.9 AV			1.20 H	34	42.30	34.50
3	3282.00	48.4 PK	74.00	-25.60	1.10 H	241	10.50	37.90
4	4924.00	49.1 PK	74.00	-24.90	1.13 H	62	6.90	42.20

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	1641.00	43.1 PK	74.00	-30.90	1.52 V	84	12.30	30.70
2	*2462.00	97.9 PK			1.20 V	34	63.40	34.50
2	*2462.00	78.0 AV			1.20 V	34	43.50	34.50
3	3282.00	47.4 PK	74.00	-26.60	1.14 V	34	9.50	37.90
4	4924.00	49.3 PK	74.00	-24.70	1.05 V	29	7.10	42.20

- 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.



5.1.8 TEST RESULTS (B)

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11 (1.68dBi gain)	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	120.02	30.6 QP	43.50	-12.90	1.25 H	6	17.90	12.70
2	159.99	39.6 QP	43.50	-3.90	1.55 H	3	29.00	10.60
3	200.09	38.9 QP	43.50	-4.60	1.18 H	0	28.80	10.10
4	240.00	34.3 QP	46.00	-11.70	1.96 H	351	21.70	12.60
5	280.00	34.5 QP	46.00	-11.50	1.59 H	76	20.40	14.10
6	320.00	32.5 QP	46.00	-13.50	1.42 H	3	17.60	15.00
7	360.00	39.0 QP	46.00	-7.00	1.08 H	34	22.90	16.10
8	480.00	30.7 QP	46.00	-15.30	1.18 H	3	11.90	18.90

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	120.04	36.5 QP	43.50	-7.00	1.29 V	2	23.80	12.70
2	160.04	27.8 QP	43.50	-15.80	1.17 V	84	17.20	10.60
3	200.04	27.1 QP	43.50	-16.40	1.31 V	2	17.00	10.10
4	240.01	24.8 QP	46.00	-21.20	1.14 V	194	12.20	12.60
5	360.01	29.7 QP	46.00	-16.30	1.15 V	2	13.70	16.10
6	640.01	28.9 QP	46.00	-17.10	1.71 V	10	7.90	21.10

- 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.



EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11 (2dBi gain)	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

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	120.00	37.2 QP	43.50	-6.30	1.13 H	308	24.90	12.30
2	160.00	37.0 QP	43.50	-6.50	1.30 H	27	22.70	14.30
3	200.00	36.0 QP	43.50	-7.50	1.25 H	224	24.80	11.20
4	240.00	34.8 QP	46.00	-11.20	1.04 H	221	21.60	13.20
5	278.75	34.6 QP	46.00	-11.40	1.12 H	70	20.00	14.60
6	319.57	26.7 QP	46.00	-19.30	1.05 H	223	11.10	15.60
7	359.44	36.8 QP	46.00	-9.20	1.36 H	32	20.10	16.70
8	400.51	33.9 QP	46.00	-12.10	1.16 H	164	16.20	17.70
9	480.03	28.9 QP	46.00	-17.10	1.08 H	2	9.10	19.70
10	600.81	30.2 QP	46.00	-15.80	1.29 H	147	7.60	22.60
11	639.99	36.4 QP	46.00	-9.60	1.21 H	2	13.30	23.10

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	120.40	35.0 QP	43.50	-8.50	1.71 V	315	22.70	12.30
2	160.00	35.0 QP	43.50	-8.50	1.13 V	227	20.70	14.30
3	201.40	32.0 QP	43.50	-11.50	1.10 V	74	20.70	11.30
4	240.00	29.8 QP	46.00	-16.20	1.31 V	62	16.60	13.20
5	320.00	31.0 QP	46.00	-15.00	1.32 V	62	15.40	15.60
6	360.00	36.0 QP	46.00	-10.00	1.14 V	138	19.30	16.70
7	480.01	28.3 QP	46.00	-17.70	1.00 V	46	8.50	19.70
8	640.01	32.9 QP	46.00	-13.10	1.21 V	214	9.70	23.10
9	704.00	32.5 QP	46.00	-13.50	1.58 V	2	8.40	24.10

- 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.



EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	OFDM	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 1 (1.68dBi gain)		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	41.6 PK	74.00	-32.40	1.12 H	74	12.90	28.60
2	*2412.00	101.0 PK			1.05 H	190	68.50	32.50
2	*2412.00	83.6 AV			1.05 H	190	51.10	32.50
3	3216.00	45.4 PK	74.00	-28.60	1.52 H	62	10.60	34.80
4	4824.00	48.4 PK	74.00	-25.60	1.32 H	85	10.10	38.30

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	41.6 PK	74.00	-32.40	1.17 V	62	12.90	28.60
2	*2412.00	94.8 PK			2.04 V	224	62.30	32.50
2	*2412.00	79.5 AV			2.04 V	224	47.00	32.50
3	3216.00	43.4 PK	74.00	-30.60	1.04 V	35	8.60	34.80
4	4824.00	47.7 PK	74.00	-26.30	1.21 V	34	9.40	38.30

- 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	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	OFDM	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 1 (2dBi gain)		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M								
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	41.0 PK	74.00	-33.00	1.12 H	229	10.50	30.50
2	*2412.00	98.8 PK			1.15 H	32	64.50	34.30
2	*2412.00	80.7 AV			1.15 H	32	46.40	34.30
3	3216.00	44.1 PK	74.00	-29.90	1.13 H	228	6.40	37.70
4	4824.00	49.4 PK	74.00	-24.60	1.07 H	84	7.40	42.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M								
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	40.8 PK	74.00	-33.20	1.36 V	28	10.30	30.50
2	*2412.00	99.8 PK			1.21 V	341	65.40	34.30
2	*2412.00	82.0 AV			1.21 V	341	47.60	34.30
3	3216.00	45.8 PK	74.00	-28.20	1.04 V	91	8.10	37.70
4	4824.00	47.5 PK	74.00	-26.50	1.13 V	184	5.50	42.00

- 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	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	OFDM	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 6 (1.68dBi gain)		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	42.4 PK	74.00	-31.60	1.18 H	35	13.70	28.70
2	*2437.00	93.6 PK			2.18 H	146	61.00	32.60
2	*2437.00	75.6 AV			2.18 H	146	43.00	32.60
3	3248.00	45.4 PK	74.00	-28.60	1.07 H	35	10.40	34.90
4	4874.00	48.6 PK	74.00	-25.40	1.12 H	81	10.00	38.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	41.1 PK	74.00	-32.90	1.30 V	335	12.40	28.70
2	*2437.00	95.6 PK			1.18 V	84	63.00	32.60
2	*2437.00	78.8 AV			1.18 V	84	46.20	32.60
3	3248.00	44.9 PK	74.00	-29.10	1.84 V	75	9.90	34.90
4	4874.00	48.7 PK	74.00	-25.30	1.22 V	341	10.10	38.60
4	4874.00	37.7 AV	54.00	-16.30	1.44 V	21	-0.90	38.60

- 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	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	OFDM	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 6 (2dBi gain)		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	42.5 PK	74.00	-31.50	1.70 H	227	11.90	30.60
2	*2437.00	94.5 PK			1.07 H	36	60.10	34.40
2	*2437.00	76.5 AV			1.07 H	36	42.10	34.40
3	3248.60	45.2 PK	74.00	-28.80	1.23 H	234	7.40	37.80
4	4874.00	50.5 PK	74.00	-23.50	1.48 H	37	8.40	42.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	1624.50	41.5 PK	74.00	-32.50	1.16 V	34	10.90	30.60
2	*2437.00	95.2 PK			1.33 V	358	60.80	34.40
2	*2437.00	77.4 AV			1.33 V	358	43.00	34.40
3	3248.60	46.0 PK	74.00	-28.00	1.33 V	281	8.20	37.80
4	4874.00	48.0 PK	74.00	-26.00	1.13 V	79	5.90	42.10

- 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	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	OFDM	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 11 (1.68dBi gain)		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	41.9 PK	74.00	-32.10	1.35 H	35	13.10	28.70
2	*2462.00	95.2 PK			1.94 H	275	62.40	32.80
2	*2462.00	78.0 AV			1.94 H	275	45.20	32.80
3	3282.00	45.6 PK	74.00	-28.40	1.45 H	84	10.50	35.10
4	4924.00	48.9 PK	74.00	-25.10	1.17 H	34	10.10	38.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	40.5 PK	74.00	-33.50	1.05 V	338	11.70	28.70
2	*2462.00	95.8 PK			1.51 V	154	63.00	32.80
2	*2462.00	80.1 AV			1.51 V	154	47.30	32.80
3	3282.00	46.0 PK	74.00	-28.00	1.17 V	35	10.90	35.10
4	4924.00	48.5 PK	74.00	-25.50	1.34 V	85	9.70	38.70

- 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	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	OFDM	FREQUENCY RANGE	Above 1000MHz
CHANNEL	Channel 11 (2dBi gain)		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	42.7 PK	74.00	-31.30	1.54 H	87	11.90	30.70
2	*2462.00	92.5 PK			1.00 H	334	58.00	34.50
2	*2462.00	73.7 AV			1.00 H	334	39.20	34.50
3	3282.00	48.6 PK	74.00	-25.40	1.14 H	154	10.70	37.90
4	4924.00	49.8 PK	74.00	-24.20	1.33 H	24	7.60	42.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	44.1 PK	74.00	-29.90	1.15 V	84	13.30	30.70
2	*2462.00	94.1 PK			1.30 V	351	59.60	34.50
2	*2462.00	76.2 AV			1.30 V	351	41.70	34.50
3	3282.00	45.2 PK	74.00	-28.80	1.71 V	84	7.30	37.90
4	4924.00	49.5 PK	74.00	-24.50	1.10 V	214	7.30	42.20

- 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.



5.2 6dB BANDWIDTH MEASUREMENT

5.2.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

5.2.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 23, 2004

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

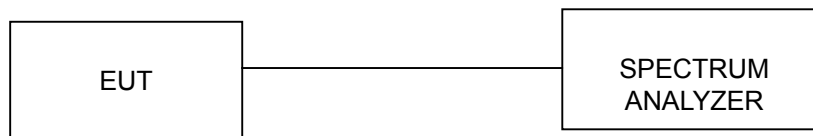
5.2.3 TEST PROCEDURE

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

5.2.4 DEVIATION FROM TEST STANDARD

No deviation

5.2.5 TEST SETUP



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

5.2.6 EUT OPERATING CONDITIONS

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



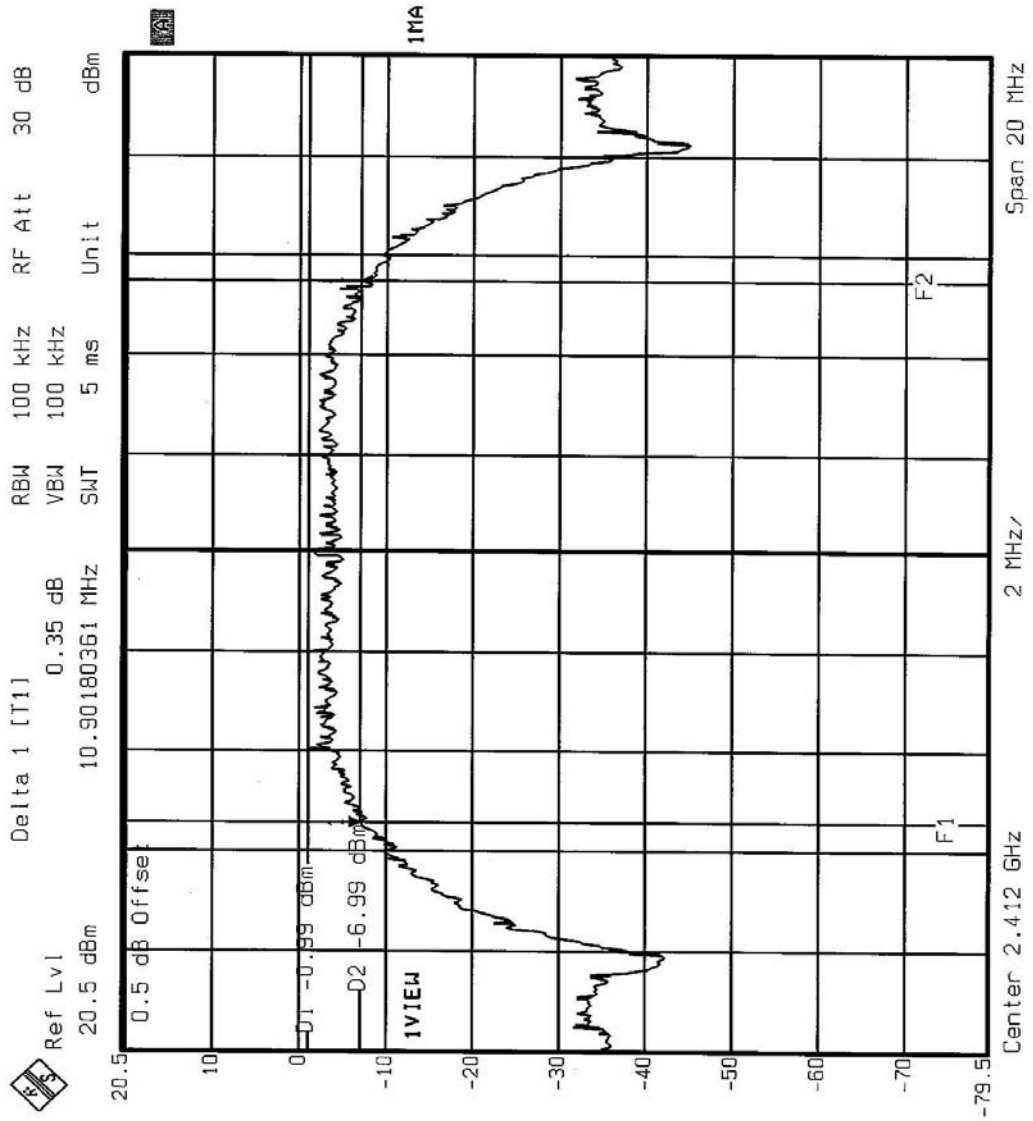
5.2.7 TEST RESULTS

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
		MODE	CCK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 70%RH, 991hPa
TESTED BY: Ansen Lei			

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.902	0.5	PASS
6	2437	10.782	0.5	PASS
11	2462	11.142	0.5	PASS

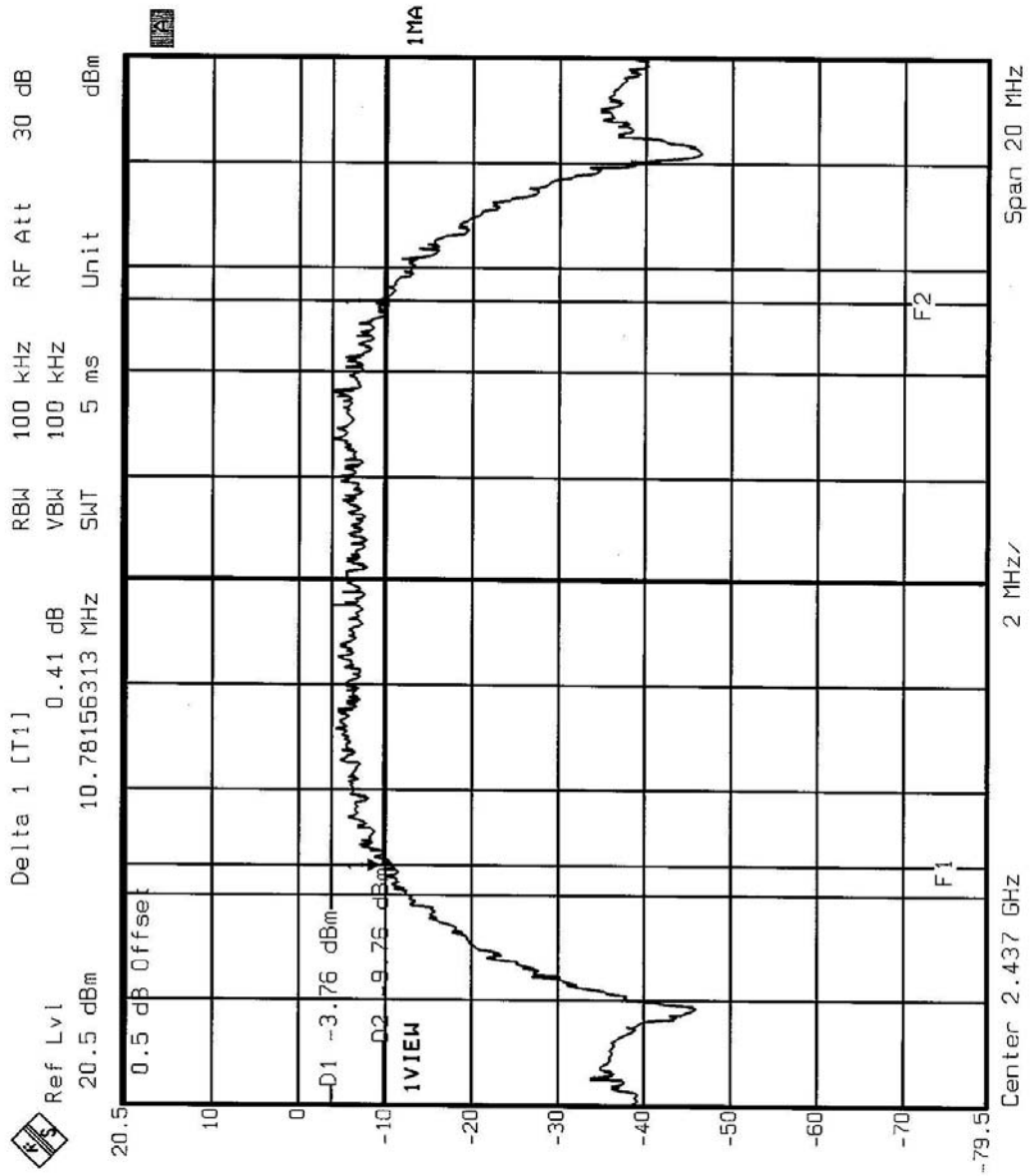


CH1



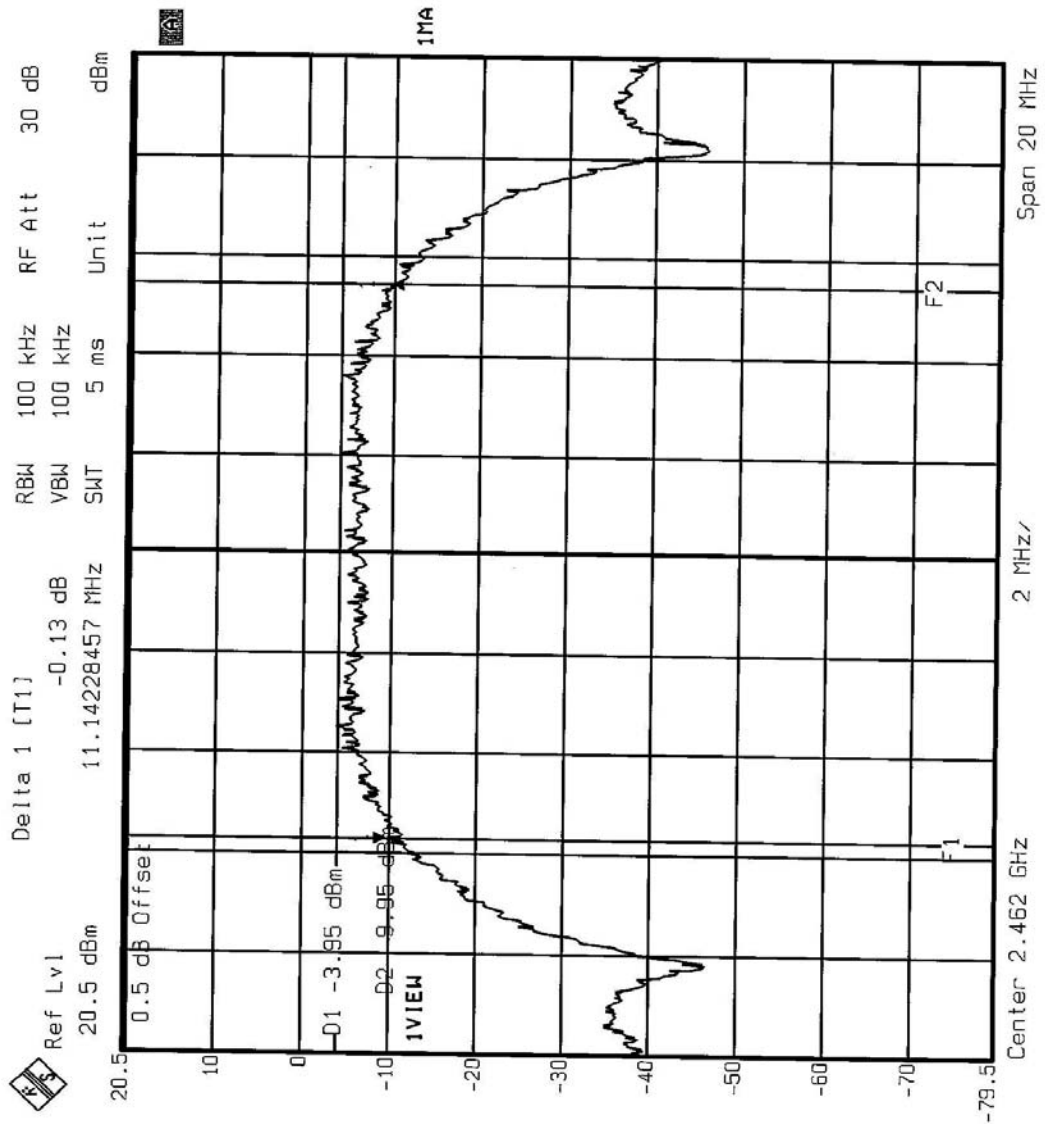


CH6





CH11



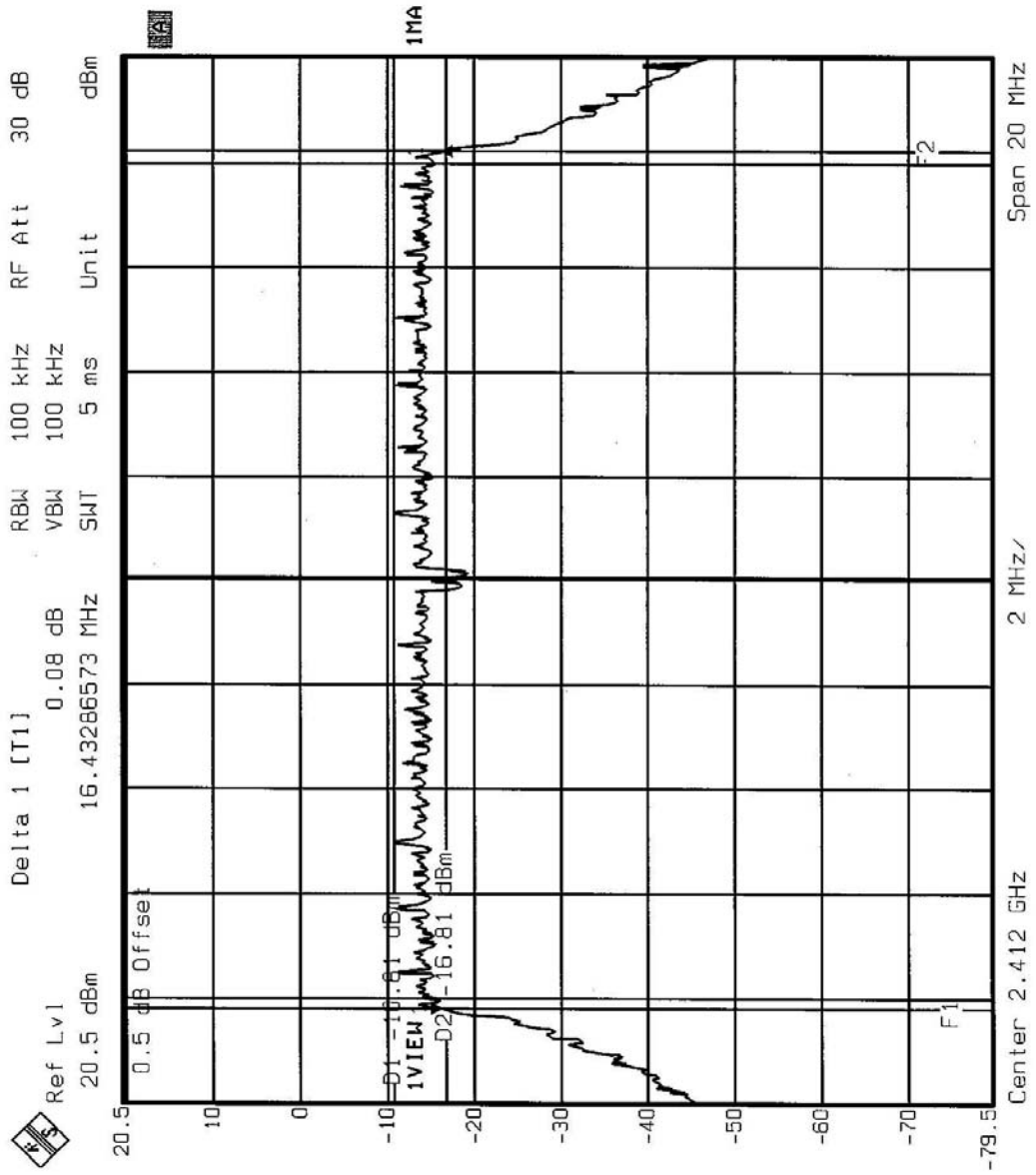


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
		MODE	OFDM
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 70%RH, 991hPa
TESTED BY: Ansen Lei			

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.433	0.5	PASS
6	2437	16.433	0.5	PASS
11	2462	16.433	0.5	PASS

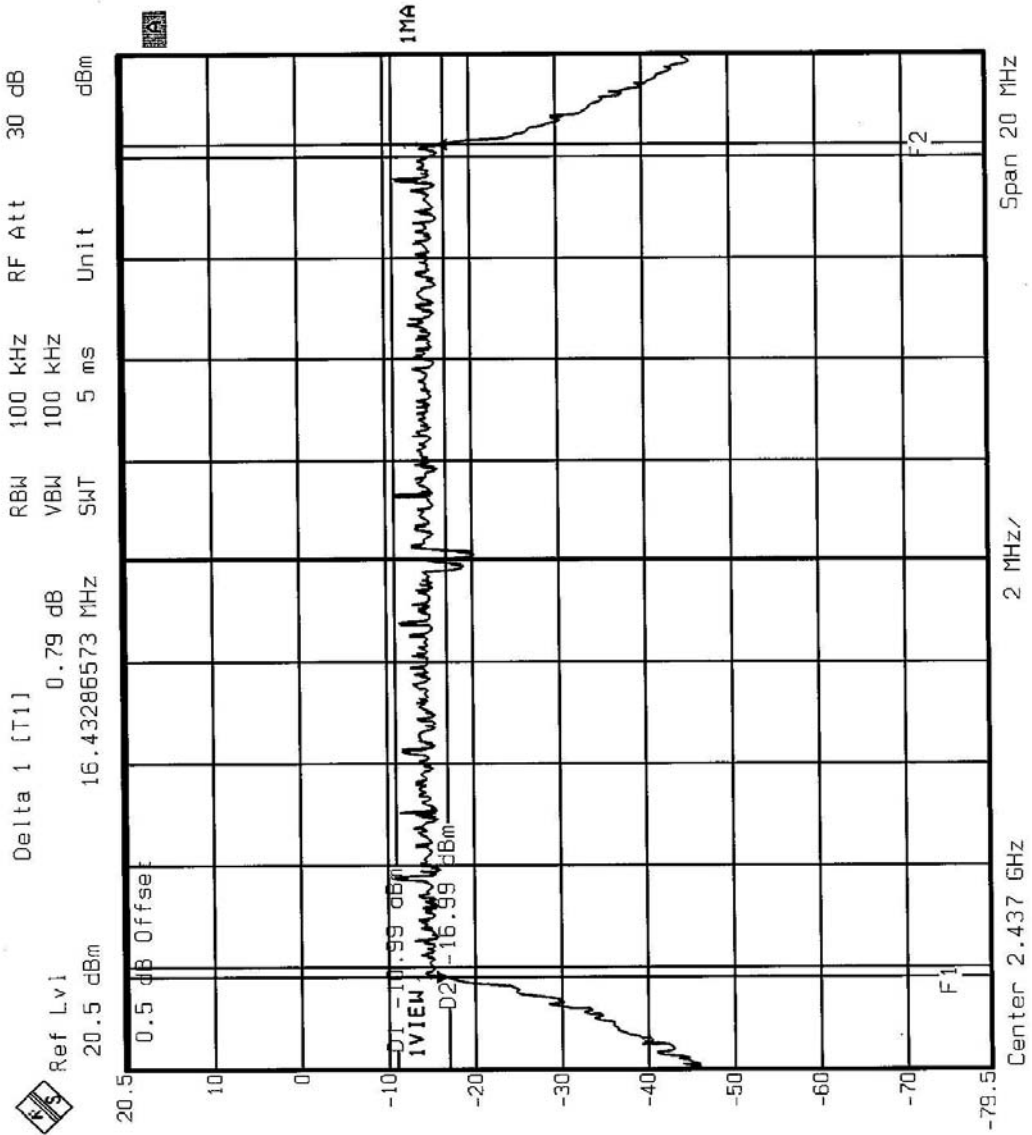


CH1



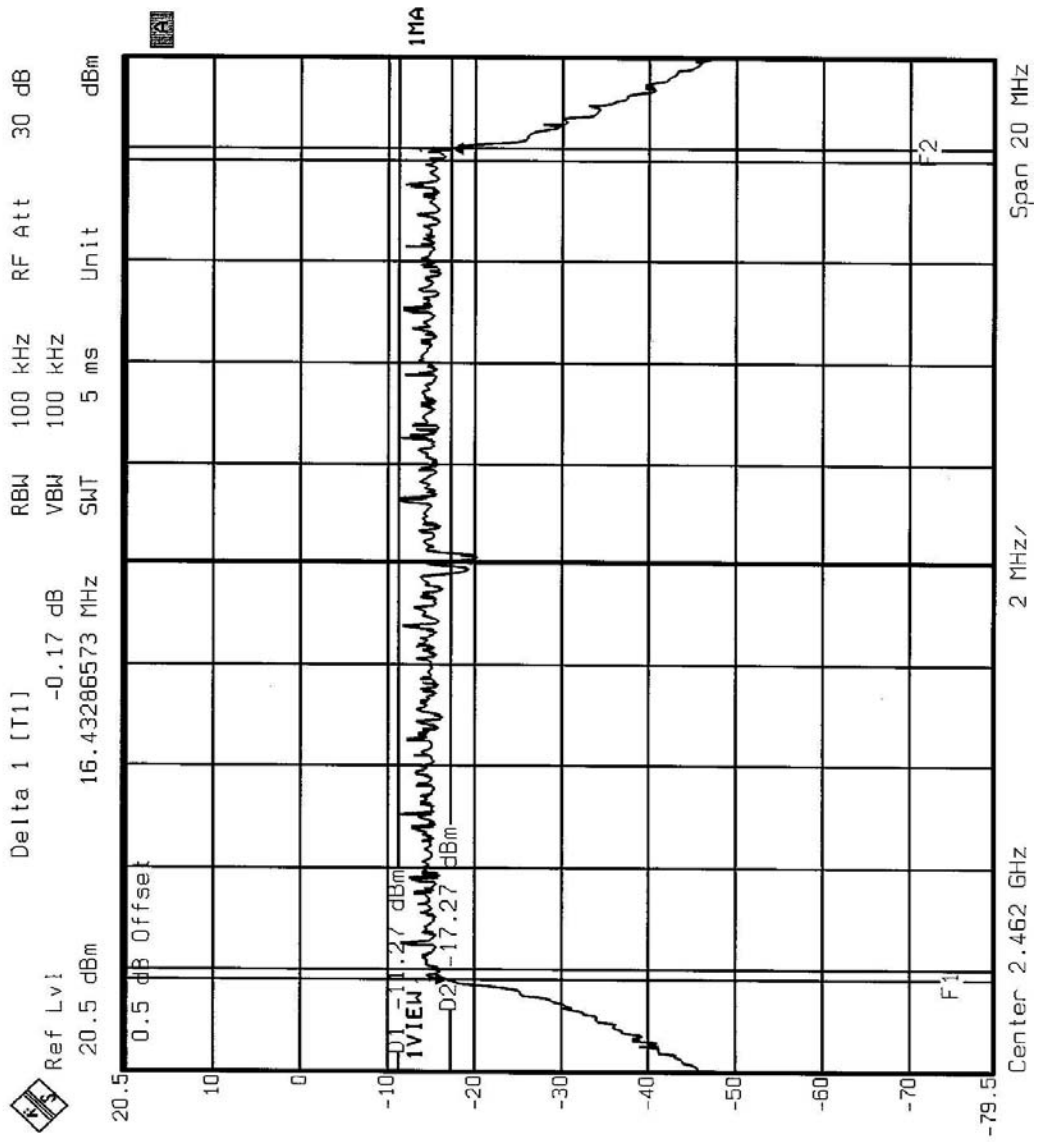


CH6





CH11





5.3 MAXIMUM PEAK OUTPUT POWER

5.3.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

5.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Jul. 23, 2004
R&S SIGNAL GENERATOR	SMP04	100011	May 28, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	B048470	Mar. 05, 2004
NARDA DETECTOR	4503A	FSCM99899	NA

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



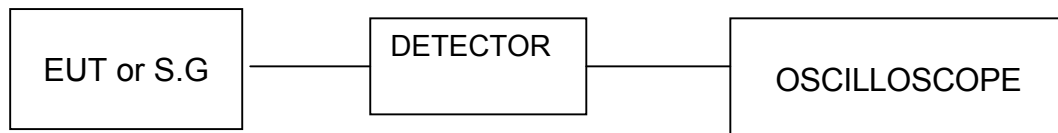
5.3.3 TEST PROCEDURES

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

5.3.4 DEVIATION FROM TEST STANDARD

No deviation

5.3.5 TEST SETUP



5.3.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



5.3.7 TEST RESULTS

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
		MODE	CCK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 70%RH, 991hPa
TESTED BY: Ansen Lei			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	11.82	30	PASS
6	2437	11.37	30	PASS
11	2462	10.36	30	PASS

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
		MODE	OFDM
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 70%RH, 991hPa
TESTED BY: Ansen Lei			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	12.02	30	PASS
6	2437	11.59	30	PASS
11	2462	11.66	30	PASS



5.4 POWER SPECTRAL DENSITY MEASUREMENT

5.4.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

5.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 23, 2004

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

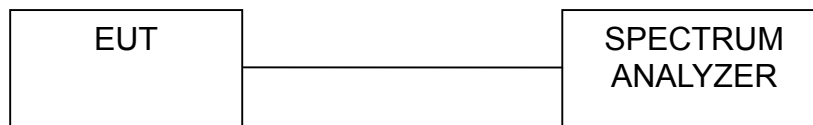
5.4.3 TEST PROCEDURE

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 3kHz RBW and 30kHz 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.

5.4.4 DEVIATION FROM TEST STANDARD

No deviation

5.4.5 TEST SETUP



5.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6



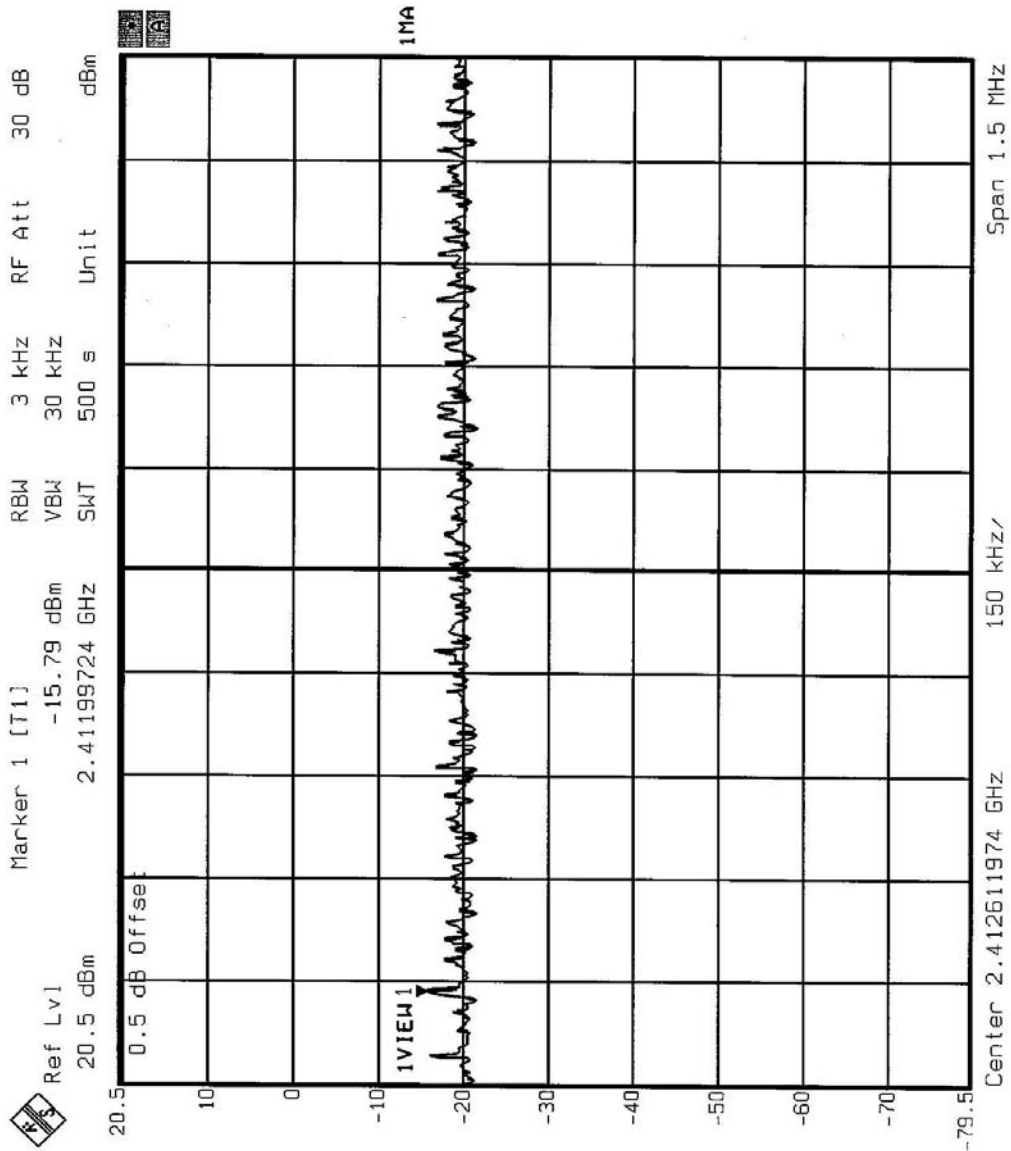
5.4.7 TEST RESULTS

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
		MODE	CCK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 70%RH, 991hPa
TESTED BY: Ansen Lei			

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-15.79	8	PASS
6	2437	-15.48	8	PASS
11	2462	-16.03	8	PASS

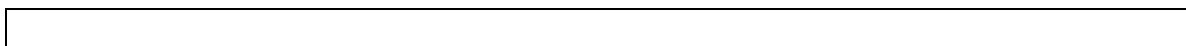
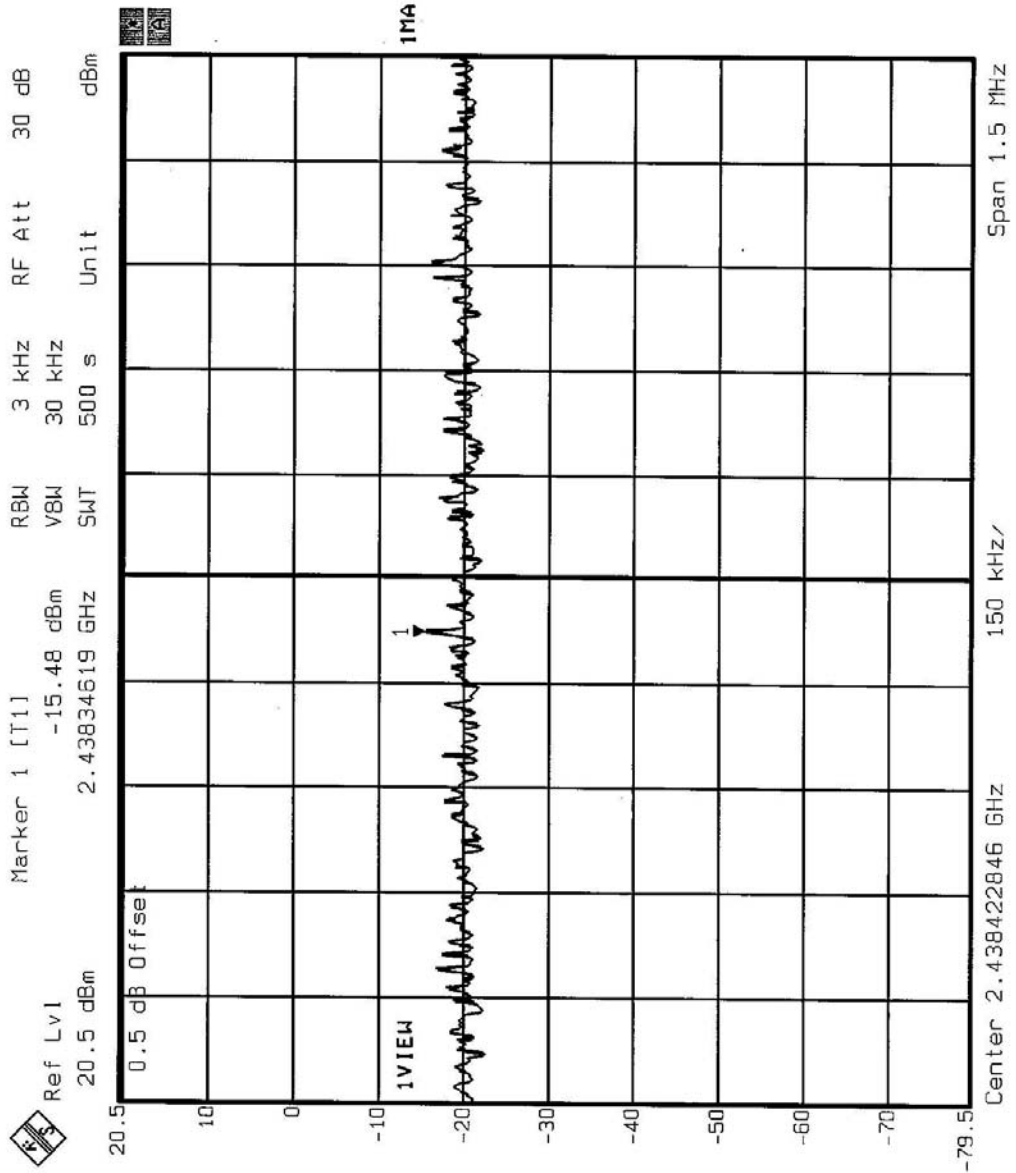


CH1



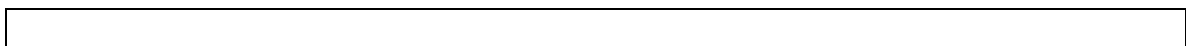
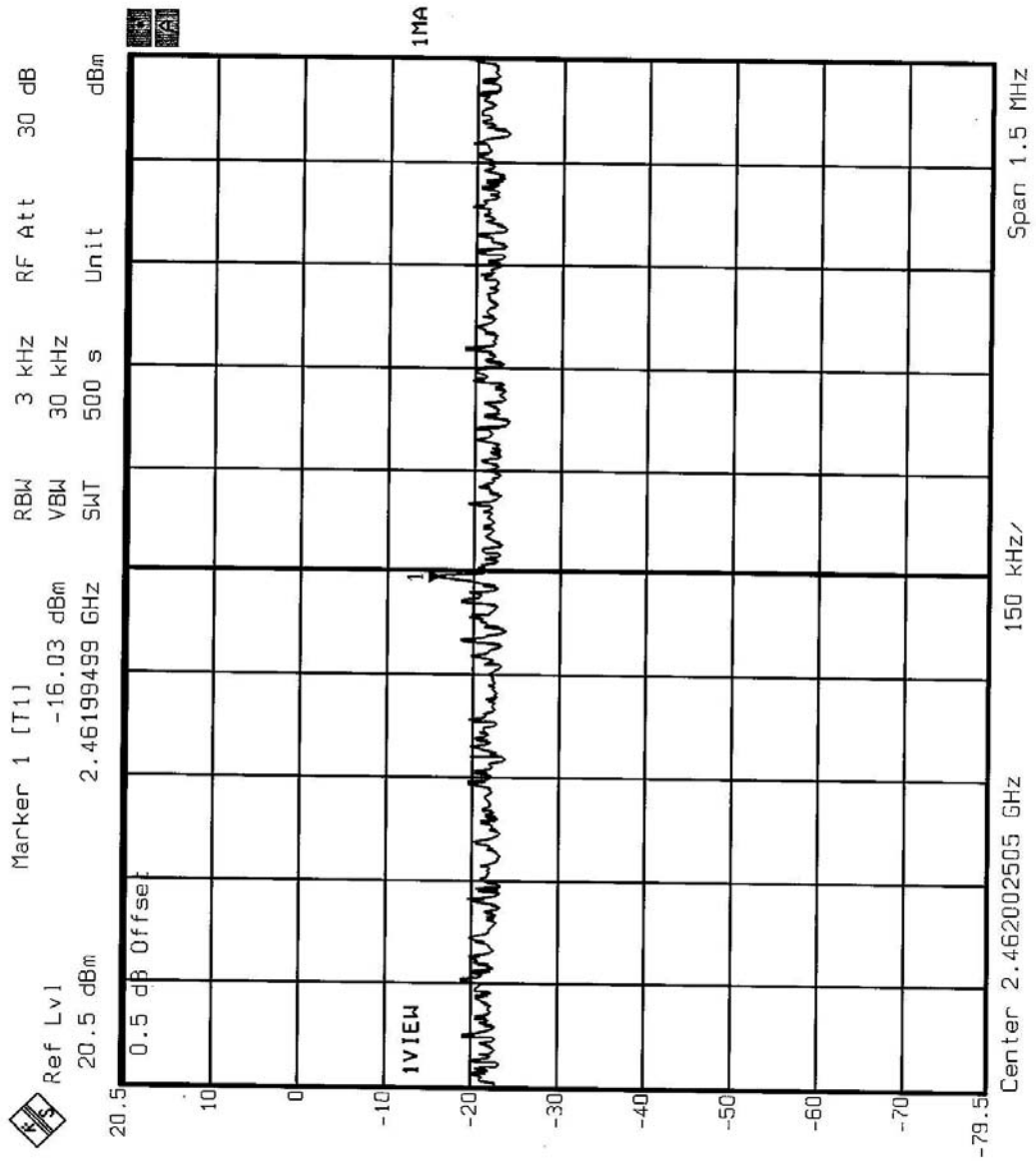


CH6





CH11



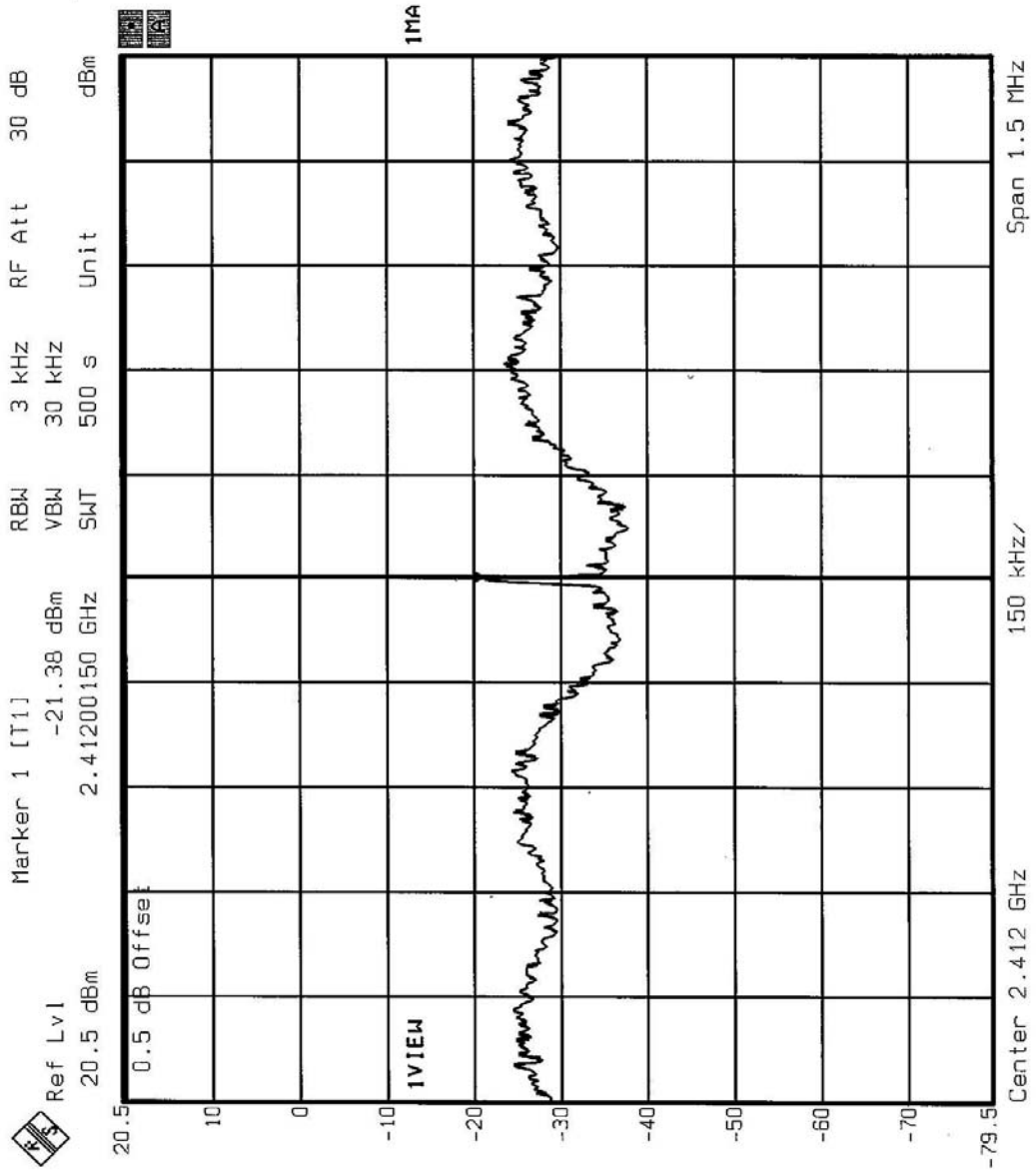


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
		MODE	OFDM
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 70%RH, 991hPa
TESTED BY: Ansen Lei			

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-21.38	8	PASS
6	2437	-21.13	8	PASS
11	2462	-20.96	8	PASS

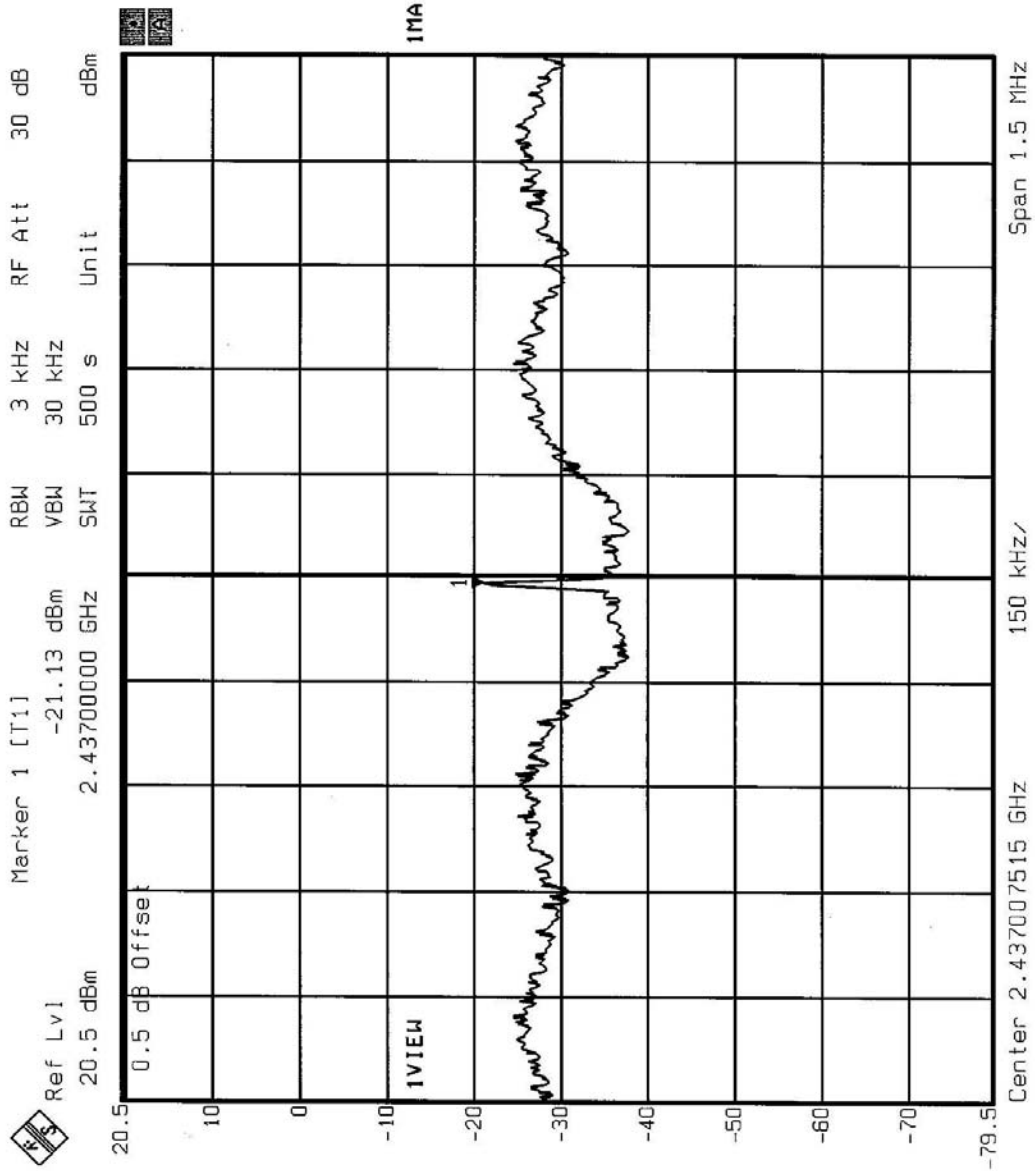


CH1



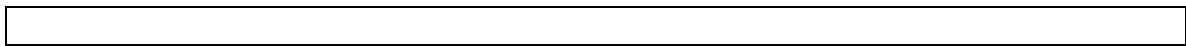
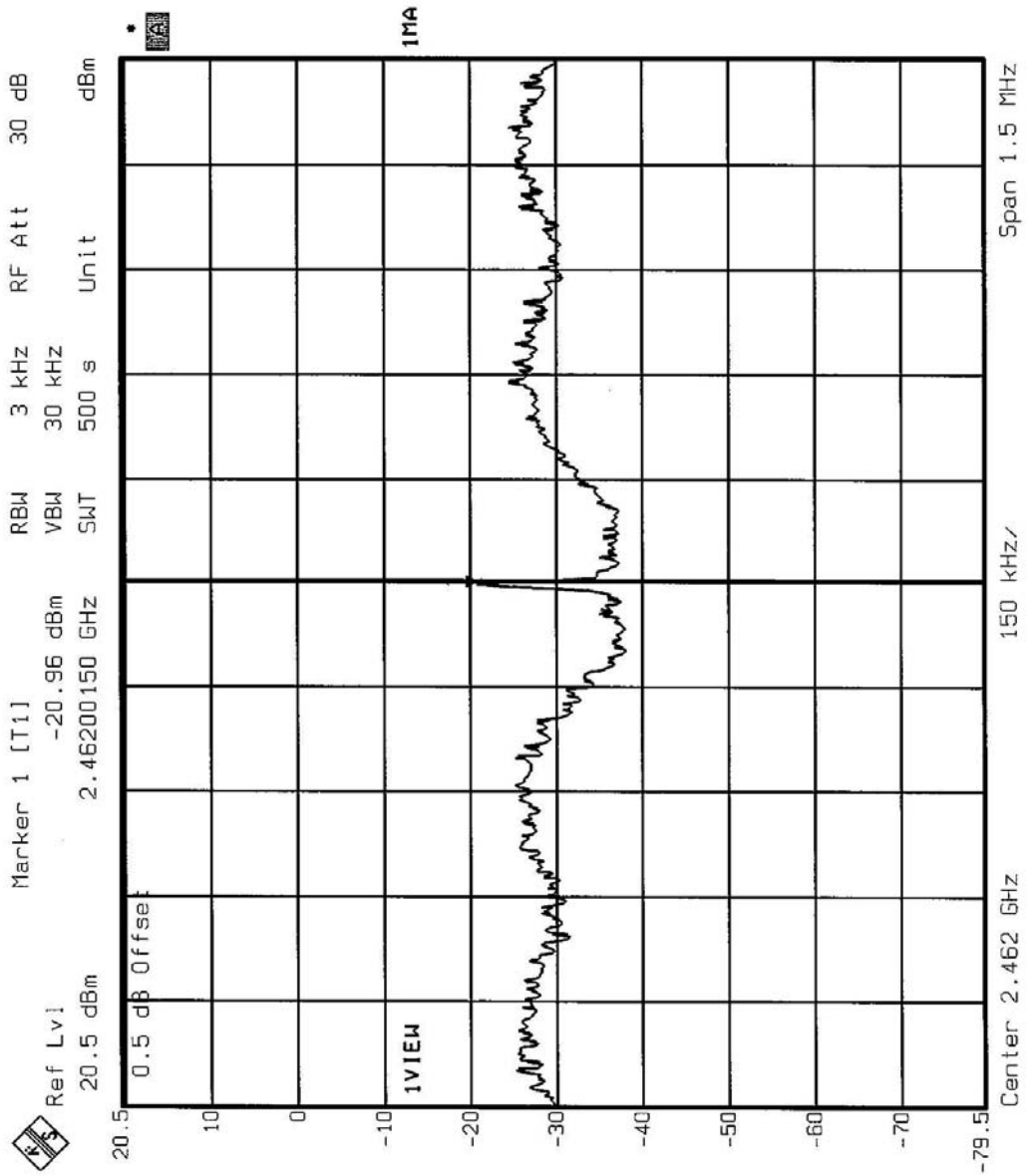


CH6





CH11





5.5 BAND EDGES MEASUREMENT

5.5.1 LIMITS OF BAND EDGES MEASUREMENT

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

5.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 23, 2004

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

5.5.3 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 100kHz for CCK technique and 1MHz and 300Hz for OFDM technique with suitable frequency span including 100kHz bandwidth from band edge. The band edges was measured and recorded.

5.5.4 DEVIATION FROM TEST STANDARD

No deviation



5.5.5 EUT OPERATING CONDITION

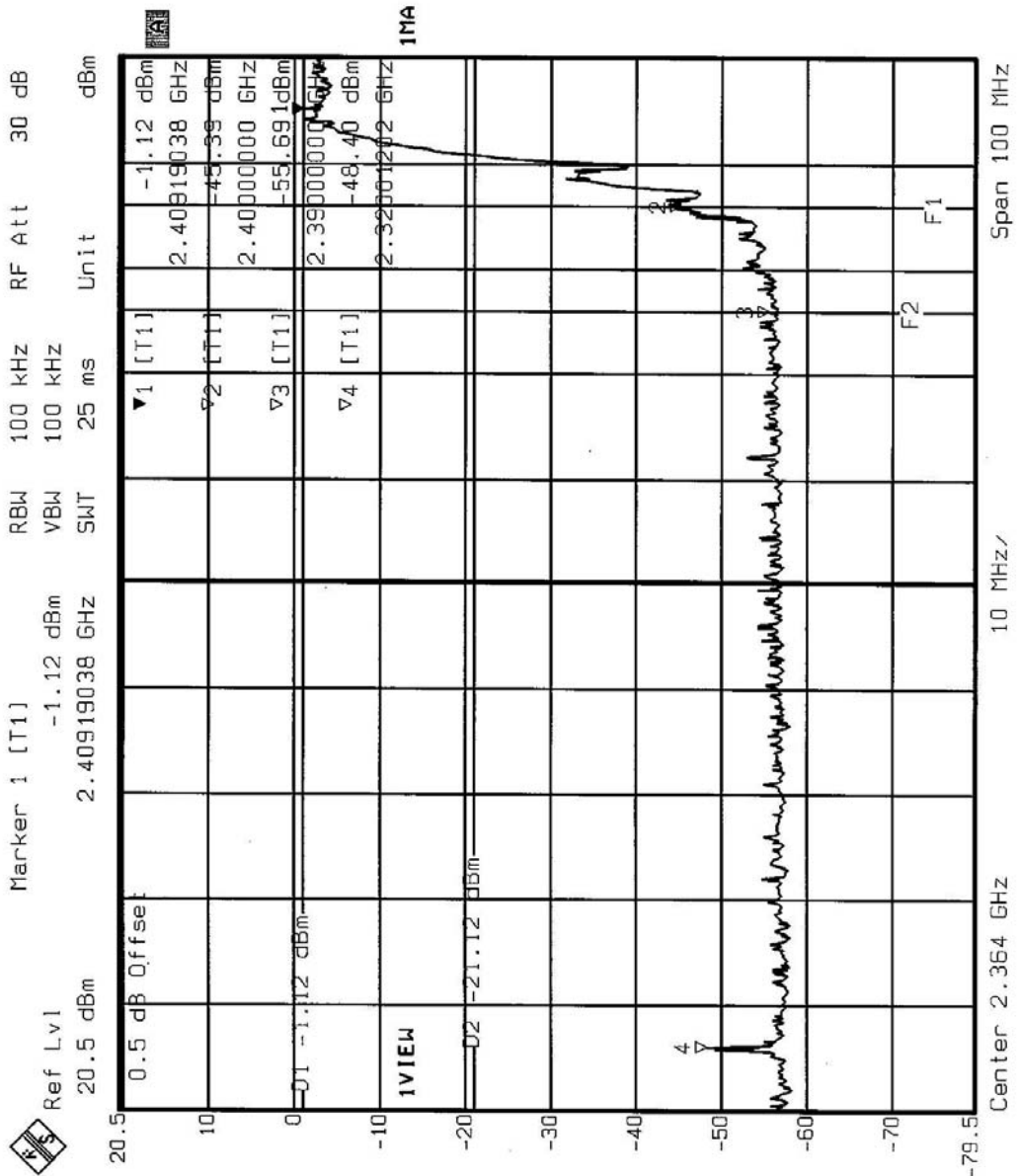
Same as Item 4.3.6

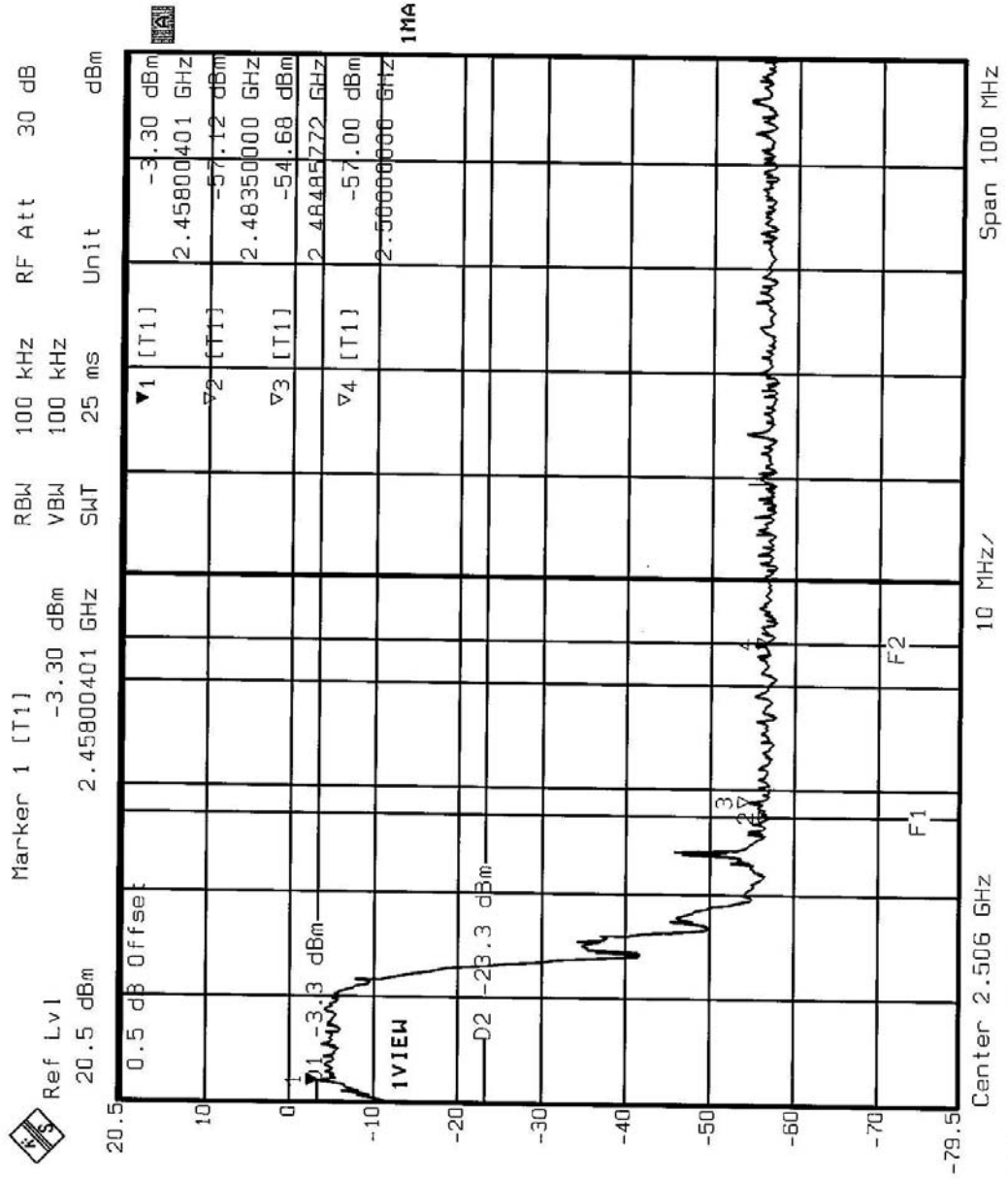
5.5.6 TEST RESULTS

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).

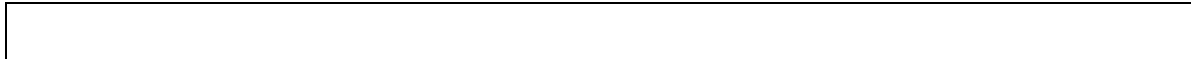
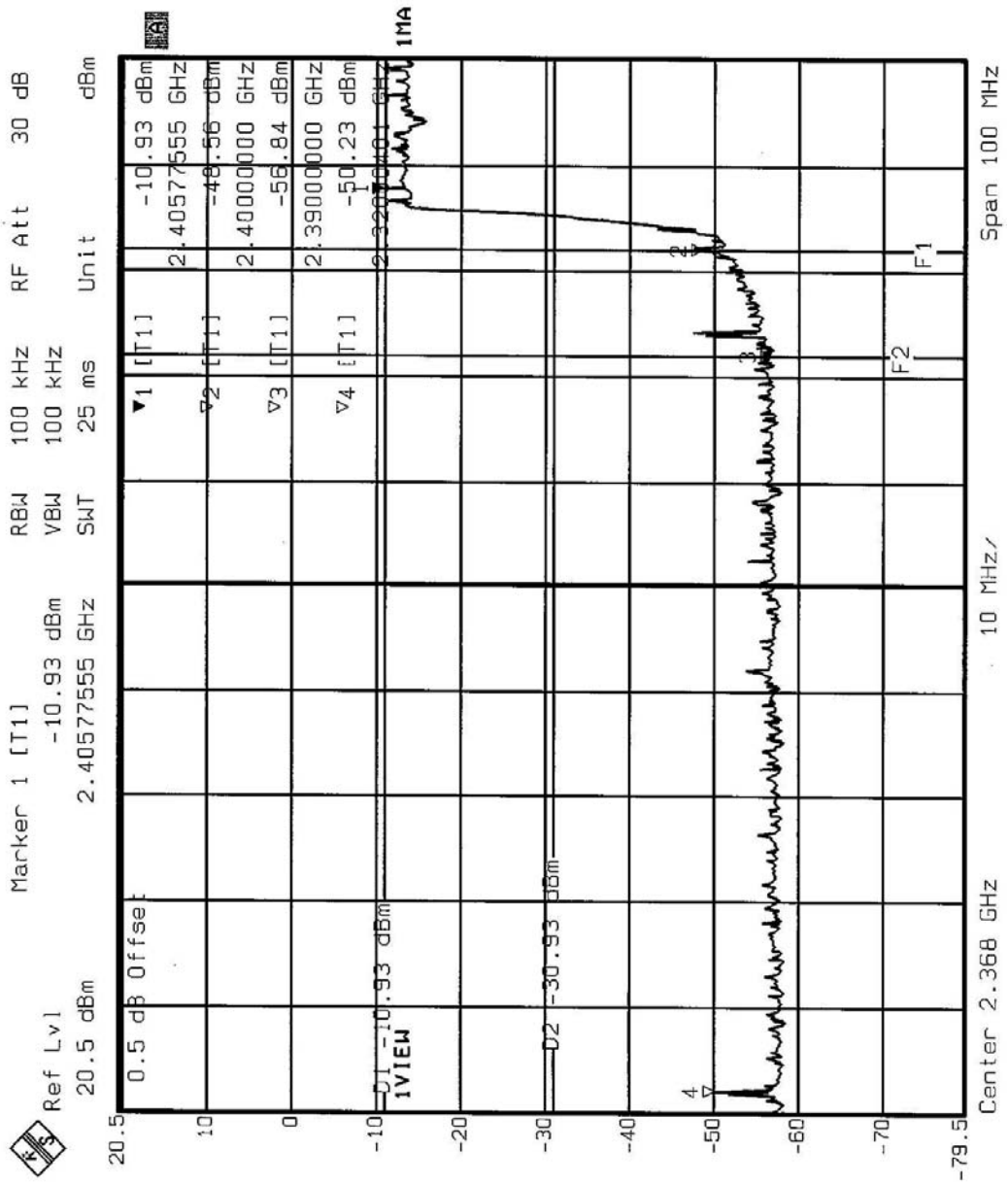
NOTE 1: The band edge emission plot on the following 1-2 pages shows 47.28dB / 51.38dB delta between carrier maximum power and local maximum emission in restrict band (2.3200GHz / 2.4849GHz). The emission of carrier strength list in the test result of channel 1of CCK technique at the item 4.2.7 is 83.8dBuV/m, so the maximum field strength in restrict band is $83.8 - 47.28 = 36.52$ dBuV/m which is under 54dBuV/m limit.

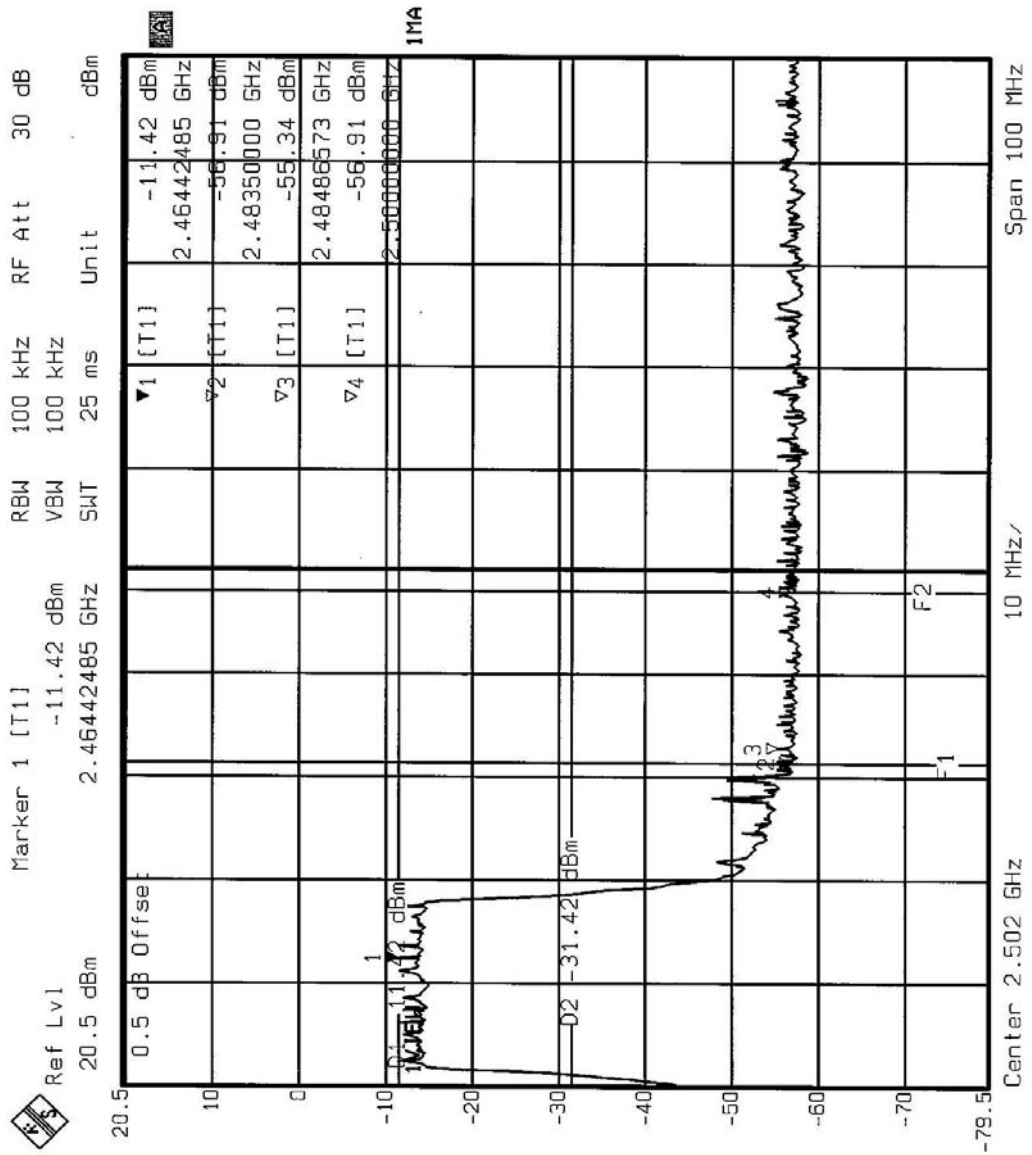
NOTE 2: The band edge emission plot on the following 3-4 pages shows 39.30dB / 43.92dB delta between carrier maximum power and local maximum emission in restrict band (2.3200GHz / 2.4849GHz). The emission of carrier strength list in the test result of channel 1 of OFDM technique at the item 4.2.7 is 83.6dBuV/m, so the maximum field strength in restrict band is $83.60 - 39.30 = 44.30$ dBuV/m which is under 54dBuV/m limit.













5.6 ANTENNA REQUIREMENT

5.6.1 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.

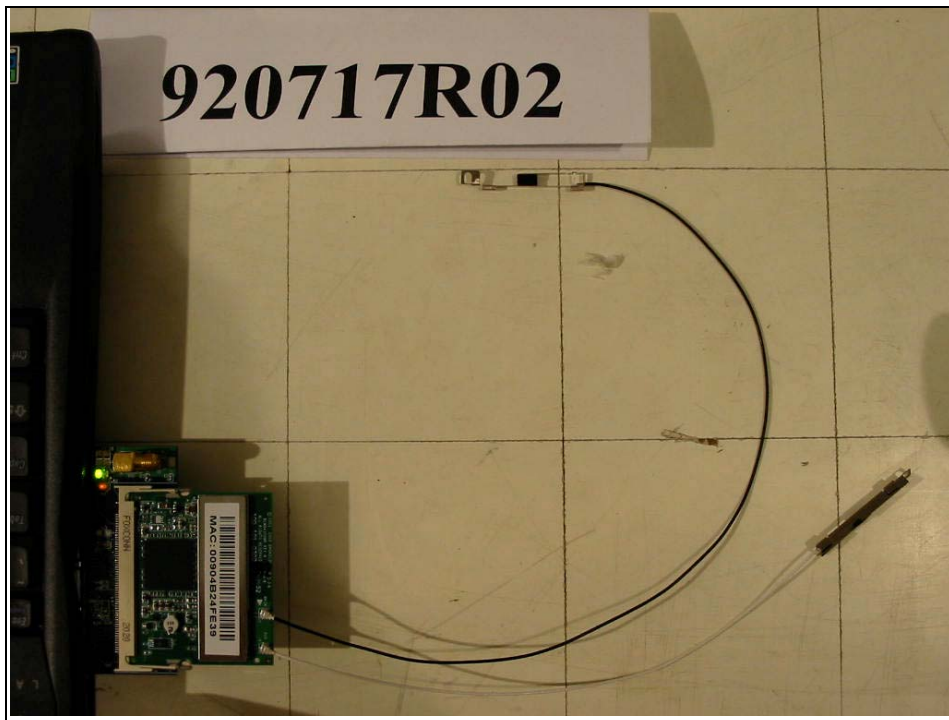
5.6.2 ANTENNA CONNECTED CONSTRUCTION

The antenna types used in this product are Inverted F antennas with UFL connector. The maximum Gain of this antenna is 2dBi.

6 PHOTOGRAPHS OF THE TEST CONFIGURATION

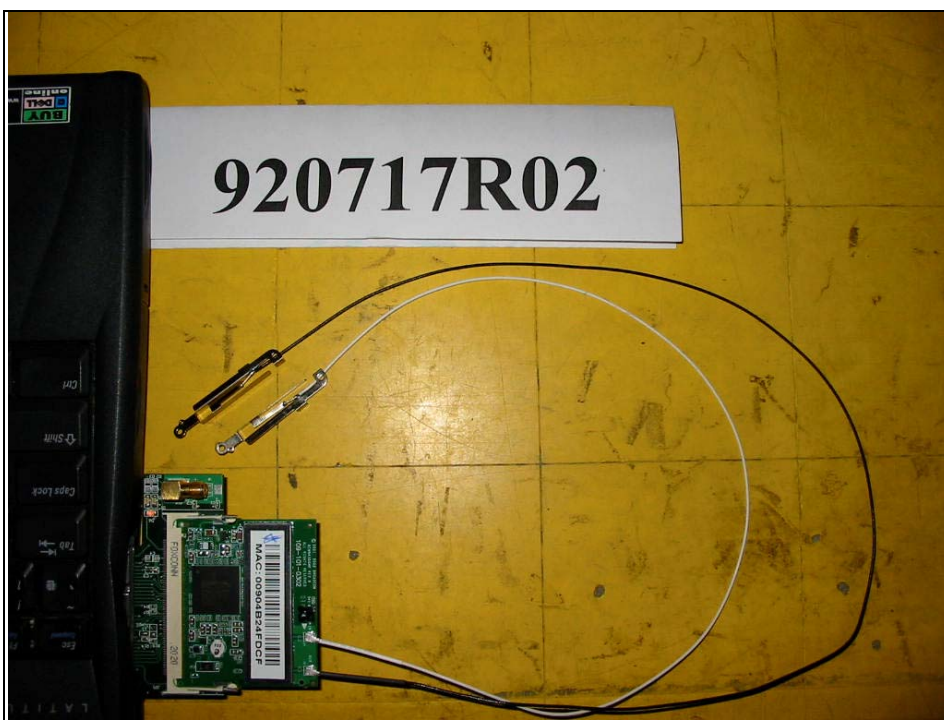
CONDUCTED EMISSION TEST





RADIATED EMISSION TEST







7 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
Germany	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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Fax: 886-35-935342

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Tel: 886-3-3270910

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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.