



FCC TEST REPORT

REPORT NO.: RF920514R03

MODEL NO.: BCM94306MP

RECEIVED: May 14, 2003

TESTED: May 19, 2003 ~ May 28, 2003

APPLICANT: QUANTA COMPUTER INC.

ADDRESS: 7F, No. 116, Hou Kang St., Shih Lin, Taipei,
Taiwan, R.O.C.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,
Taiwan, R.O.C.

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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
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 May 19, 2003 to May 28, 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 : Emily Lu for **DATE :** May 29, 2003

APPROVED BY : Dr. Alan Lane, JVP for **DATE :** May 29, 2003

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 -2.40dBuV at 597.23MHz
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	11.82dBm
ANTENNA TYPE	Inverted F and Printed Dipole*
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. Please refer to the following table for nine types of antennas provided to this EUT. The antennas marked with “*” were chosen for final test of radiated measurement.

No.	Antenna Type	Model No.	Gain (dBi)
*1	Inverted F (metal)	OA2, 14”	1.26
2	Inverted F (metal)	OA2, 15”	0.99
3	Inverted F (metal)	OA5, 14”	-0.04
4	Inverted F (metal)	OA5, 15”	0.63
5	Inverted F (metal)	OA6L, 15”	0.63
*6	Printed Dipole (PCB)	OA6, 14”	4.68
7	Printed Dipole (PCB)	OA6, 15”	1.18
8	Inverted F (PCB)	YA1A, 15”	0.85
*9	Inverted F (PCBI)	YA1A ,15.7”	0.92

2. The EUT supports 802.11g standards to provide maximum data rates of 54Mbps.
3. 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. Three test results with A, B, C represent antenna #1, #6 and #9 which mentioned on section 3.1.

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-09C748-12800-19O-B220	FCC DoC APPROVED
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 23, 2003
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 23, 2003
Software	Cond-V2M1	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C05.01	July 19, 2003
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.



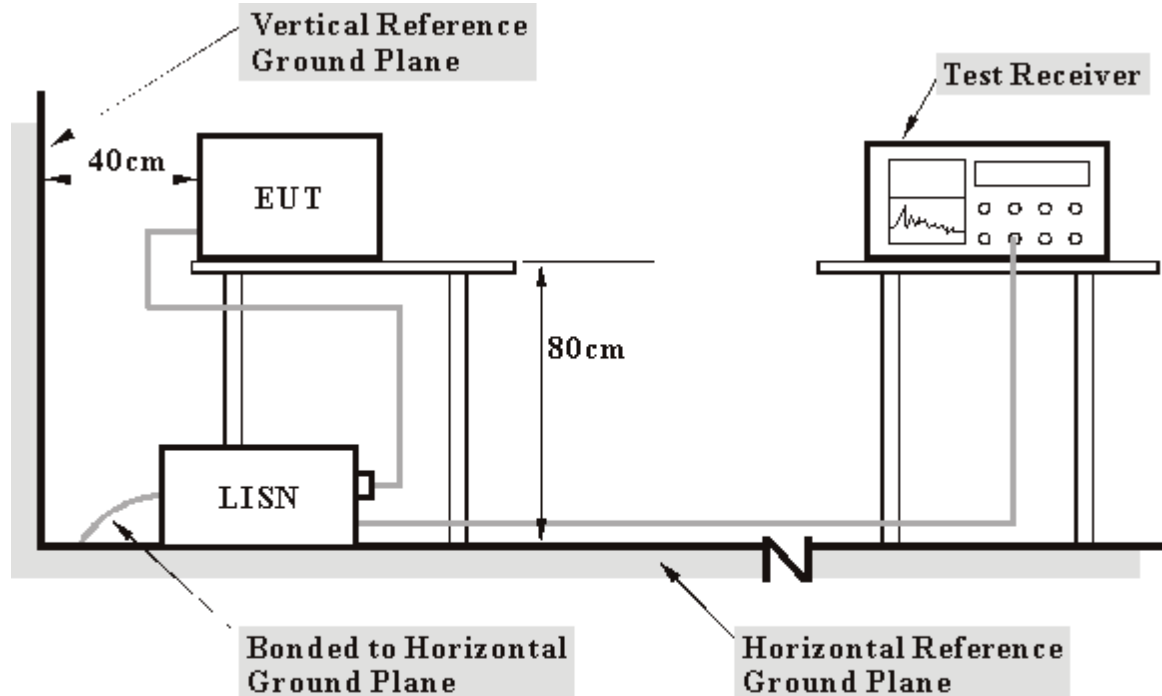
4.1.3 TEST PROCEDURES

- 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.

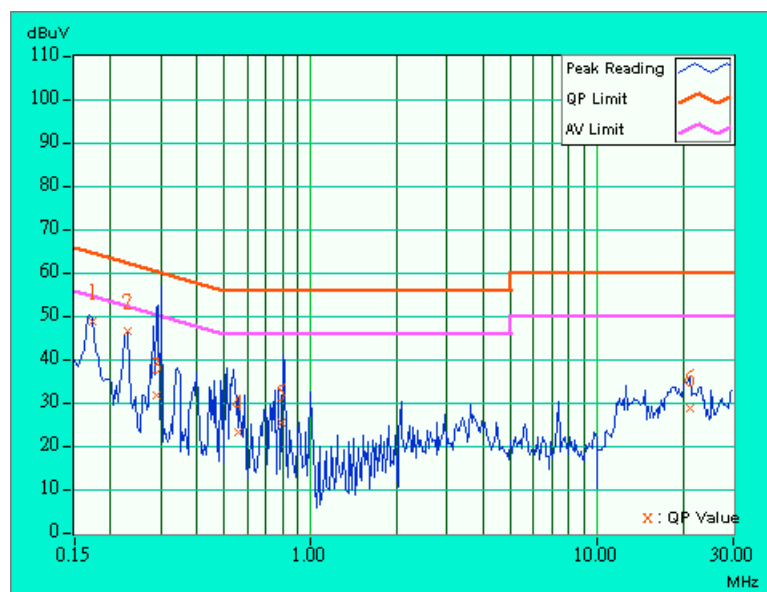
4.1.7 TEST RESULTS

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.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	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.

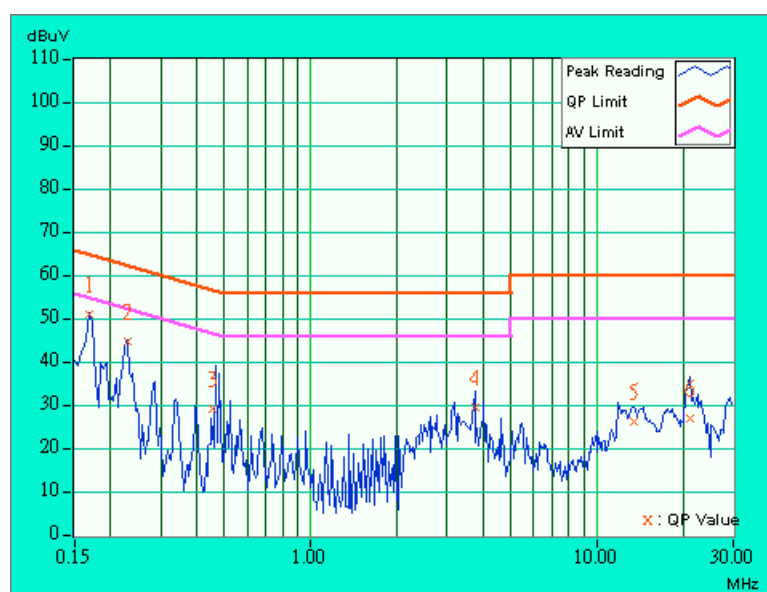


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 1	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	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.

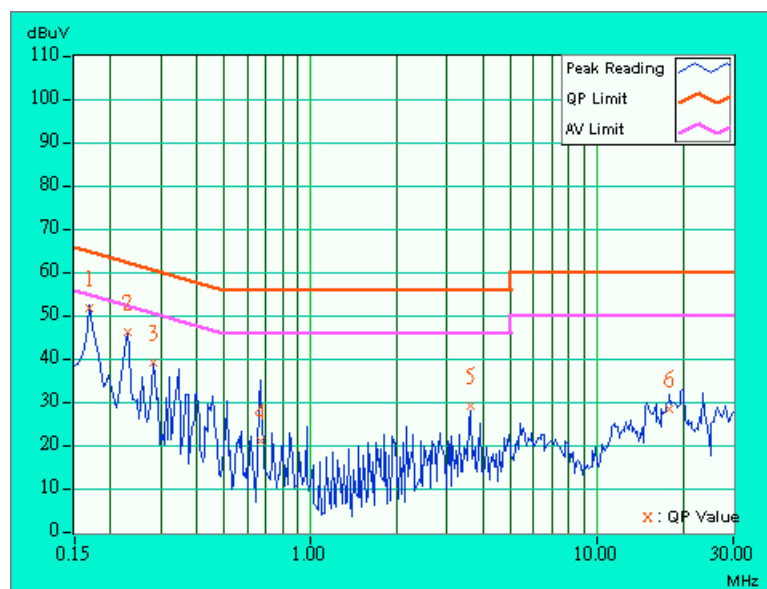


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 6	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	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.

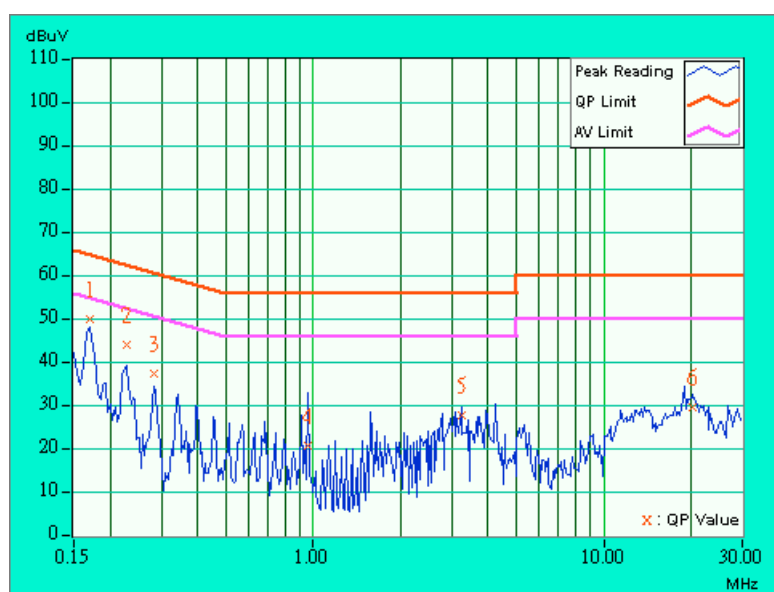


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 6	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	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.

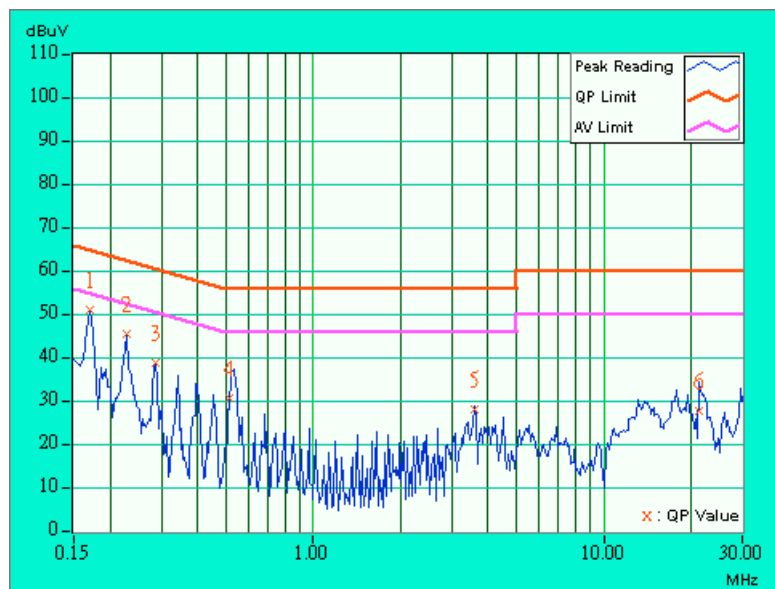


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	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.

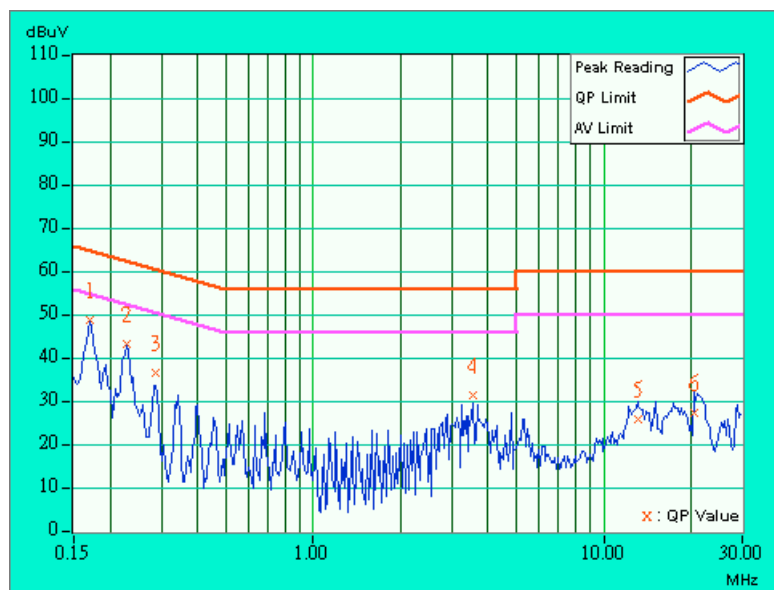


EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	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.



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	8590L	3544A01176	May 13, 2004
* HP Preamplifier	8447D	2944A08485	May 01, 2004
* HP Preamplifier	8449B	3008A01201	Dec. 01, 2003
* HP Preamplifier	8449B	3008A01292	Aug. 07, 2003
* Spectrum Analyzer	8593E	3926A04191	Mar. 24, 2004
* Test Receiver	ESI7	838496/016	Feb. 23, 2004
SCHAFFNER Tunable Dipole Antenna	VHBA 9123	459	Nov. 22, 2003
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 02, 2003
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 03, 2003
* EMCO Horn Antenna	3115	9312-4192	Mar. 23, 2004
* EMCO Turn Table	1060	1115	NA
* SHOSHIN Tower	AP-4701	A6Y005	NA
* Software	ADT_Radiated_V5.09	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Jul. 11. 2003
* TIMES RF cable	LMR-600	CABLE-ST5-01	Jul. 11. 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. 5.
5. The VCCI Site Registration No. is R-1039.



4.2.3 TEST PROCEDURES

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

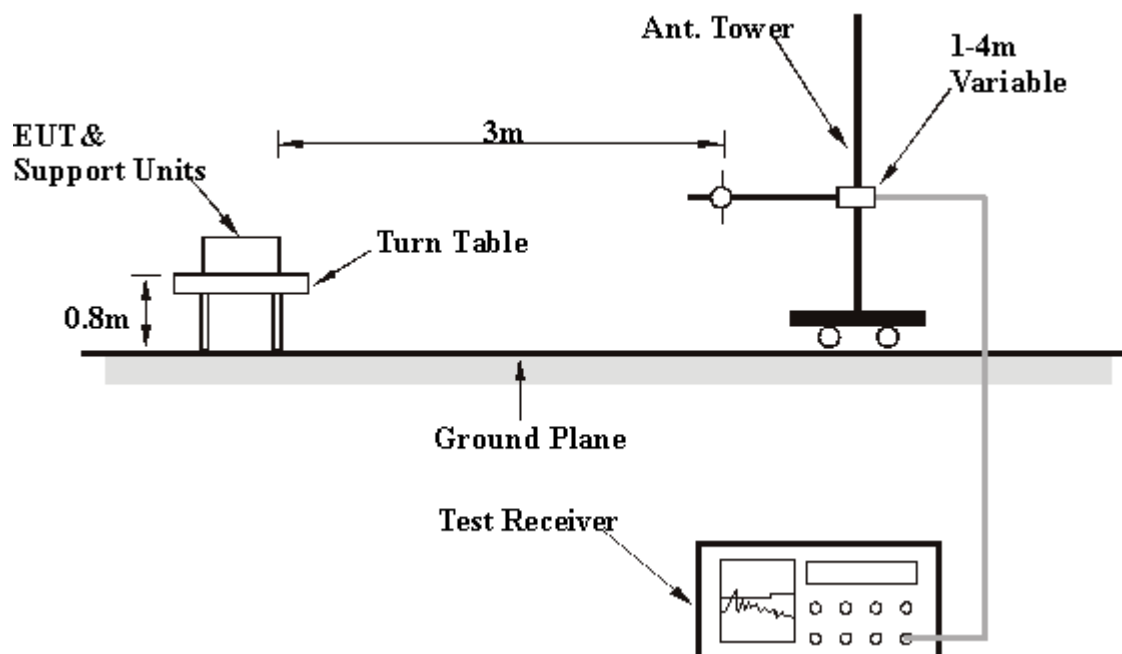
NOTE:

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS (A)

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11	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	113.00	40.6 QP	43.50	-2.90	1.00 H	0	27.50	13.00
2	116.64	38.4 QP	43.50	-5.10	1.00 H	24	25.20	13.30
3	154.34	32.5 QP	43.50	-11.00	1.00 H	209	21.30	11.20
4	195.71	33.5 QP	43.50	-10.00	1.60 H	224	22.60	10.90
5	239.18	32.1 QP	46.00	-13.90	1.60 H	186	17.50	14.60
6	314.00	37.6 QP	46.00	-8.40	1.60 H	212	20.50	17.00
7	352.38	34.0 QP	46.00	-12.00	1.60 H	32	16.20	17.80
8	399.36	35.0 QP	46.00	-11.00	1.60 H	210	15.90	19.10
9	478.38	42.4 QP	46.00	-3.60	1.60 H	23	21.80	20.60

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	124.83	38.5 QP	43.50	-5.00	1.00 V	237	25.30	13.20
2	155.30	35.2 QP	43.50	-8.30	1.00 V	221	24.00	11.10
3	203.88	40.6 QP	43.50	-2.90	1.00 V	43	29.30	11.30
4	235.18	42.4 QP	46.00	-3.60	1.35 V	215	28.10	14.20
5	280.88	36.1 QP	46.00	-9.90	1.35 V	34	19.60	16.50
6	320.88	25.4 QP	46.00	-20.60	1.35 V	221	8.30	17.20
7	360.85	35.4 QP	46.00	-10.60	1.35 V	37	17.40	18.00
8	422.48	42.1 QP	46.00	-3.90	1.35 V	212	22.70	19.40
9	507.10	37.5 QP	46.00	-8.50	1.35 V	222	16.40	21.20
10	597.48	42.8 QP	46.00	-3.20	1.35 V	67	20.20	22.60
11	636.23	35.3 QP	46.00	-10.70	1.35 V	209	12.50	22.80

- 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	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	43.3 PK	74.00	-30.70	1.24 H	118	15.40	27.90
2	*2412.00	100.2 PK			1.16 H	166	69.10	31.10
2	*2412.00	85.0 AV			1.16 H	166	53.90	27.90
3	3216.00	46.8 PK	74.00	-27.20	1.62 H	90	12.70	34.10
4	4824.00	46.4 PK	74.00	-27.60	1.12 H	35	8.90	37.50

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	40.3 PK	74.00	-33.70	1.32 V	165	12.40	27.90
2	*2412.00	97.8 PK			1.00 V	142	66.70	31.10
2	*2412.00	82.0 AV			1.00 V	142	50.90	27.90
3	3216.00	43.5 PK	74.00	-30.50	1.36 V	185	9.40	34.10
4	4824.00	46.9 PK	74.00	-27.10	1.31 V	152	9.40	37.50

- 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	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	39.7 PK	74.00	-34.30	1.34 H	78	11.70	28.00
2	*2437.00	100.7 PK			1.06 H	69	69.60	31.10
2	*2437.00	84.8 AV			1.06 H	69	53.60	28.00
3	3249.00	46.8 PK	74.00	-27.20	1.52 H	174	12.70	34.10
4	4874.00	48.5 PK	74.00	-25.50	1.44 H	18	10.90	37.60

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	1624.00	40.8 PK	74.00	-33.20	1.21 V	241	12.80	28.00
2	*2437.00	100.0 PK			1.00 V	153	68.90	31.10
2	*2437.00	83.9 AV			1.00 V	153	52.80	28.00
3	3248.00	46.9 PK	74.00	-27.10	1.44 V	21	12.70	34.10
4	4874.00	47.3 PK	74.00	-26.70	1.51 V	34	9.70	37.60

- 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	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	44.6 PK	74.00	-29.40	1.18 H	32	16.50	28.10
2	*2462.00	94.4 PK			1.24 H	174	63.10	31.20
2	*2462.00	79.0 AV			1.24 H	174	47.80	28.10
3	3282.00	46.2 PK	74.00	-27.80	1.44 H	45	12.00	34.20
4	4924.00	47.6 PK	74.00	-26.40	1.15 H	32	9.90	37.60

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	1641.00	40.4 PK	74.00	-33.60	1.31 V	247	12.30	28.10
2	*2462.00	94.9 PK			1.00 V	16	63.70	31.20
2	*2462.00	80.6 AV			1.00 V	16	49.30	28.10
3	3282.00	46.5 PK	74.00	-27.50	1.39 V	224	12.30	34.20
4	4924.00	47.6 PK	74.00	-26.40	1.15 V	51	9.90	37.60

- 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 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 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	35.1 PK	74.00	-38.90	1.24 H	118	7.20	27.90
2	*2412.00	87.6 PK			1.16 H	198	56.50	31.10
2	*2412.00	83.8 AV			1.16 H	198	52.70	27.90
3	3216.00	46.9 PK	74.00	-27.10	1.62 H	90	12.80	34.10
4	4824.00	47.3 PK	74.00	-26.70	1.26 H	241	9.80	37.50

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	1.13 V	120	12.90	27.90
2	*2412.00	94.2 PK			1.00 V	20	63.20	31.10
2	*2412.00	80.3 AV			1.00 V	20	49.20	27.90
3	3216.00	43.2 PK	74.00	-30.80	1.40 V	112	9.10	34.10
4	3216.00	52.5 PK	74.00	-21.50	1.13 V	165	18.50	34.10

- 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 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 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	39.7 PK	74.00	-34.30	1.34 H	78	11.70	28.00
2	*2437.00	102.0 PK			1.06 H	153	70.90	31.10
2	*2437.00	87.0 AV			1.06 H	153	55.90	28.00
3	3249.00	46.8 PK	74.00	-27.20	1.75 H	241	12.70	34.10
4	4874.00	48.8 PK	74.00	-25.20	1.23 H	150	11.20	37.60

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	40.8 PK	74.00	-33.20	1.21 V	162	12.80	28.00
2	*2437.00	93.4 PK			1.33 V	187	62.20	31.10
2	*2437.00	79.1 AV			1.33 V	187	48.00	28.00
3	3248.00	46.9 PK	74.00	-27.10	1.44 V	21	12.80	34.10
4	4874.00	57.1 PK	74.00	-16.90	1.44 V	21	19.50	37.60
4	4874.00	37.7 AV	54.00	-16.30	1.44 V	21	0.20	31.10

- 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		
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	40.5 PK	74.00	-33.50	1.21 H	148	12.40	28.10
2	*2462.00	93.8 PK			1.25 H	213	62.60	31.20
2	*2462.00	79.3 AV			1.25 H	213	48.10	28.10
3	3282.00	46.7 PK	74.00	-27.30	1.48 H	225	12.50	34.20
4	4924.00	61.1 PK	74.00	-12.90	1.25 H	213	23.50	37.60

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	1641.00	40.5 PK	74.00	-33.50	1.21 V	148	12.40	28.10
2	*2462.00	90.6 PK			1.54 V	248	59.40	31.20
2	*2462.00	76.8 AV			1.54 V	248	45.60	28.10
3	3282.00	46.7 PK	74.00	-27.30	1.57 V	164	12.50	34.20
4	4924.00	61.1 PK	74.00	-12.90	1.25 V	213	23.50	37.60

- 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.

4.2.8 TEST RESULTS (B)

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11	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	117.00	38.9 QP	43.50	-4.60	2.50 H	101	25.60	13.30
2	121.62	36.8 QP	43.50	-6.70	2.02 H	171	23.50	13.40
3	157.81	33.8 QP	43.50	-9.70	1.81 H	40	22.80	11.00
4	200.66	31.3 QP	43.50	-12.20	2.09 H	88	20.30	11.00
5	238.82	36.7 QP	46.00	-9.30	1.50 H	210	22.20	14.60
6	278.57	39.3 QP	46.00	-6.70	1.23 H	202	22.80	16.50
7	322.14	41.6 QP	46.00	-4.40	1.23 H	46	24.40	17.20
8	361.61	35.5 QP	46.00	-10.50	1.61 H	211	17.40	18.00
9	402.15	40.7 QP	46.00	-5.30	1.00 H	24	21.50	19.10
10	438.73	33.5 QP	46.00	-12.50	1.73 H	213	13.90	19.60
11	479.62	34.8 QP	46.00	-11.20	1.00 H	31	14.10	20.60

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	120.00	38.2 QP	43.50	-5.30	1.45 V	208	24.70	13.50
2	200.00	28.1 QP	43.50	-15.40	1.29 V	52	17.10	11.00
3	240.00	31.2 QP	46.00	-14.80	1.45 V	262	16.60	14.70
4	280.00	30.7 QP	46.00	-15.30	1.40 V	91	14.20	16.50
5	320.00	26.6 QP	46.00	-19.40	1.13 V	211	9.50	17.10
6	400.00	30.8 QP	46.00	-15.20	1.10 V	116	11.70	19.10
7	480.00	30.8 QP	46.00	-15.20	1.31 V	47	10.20	20.60
8	519.79	34.7 QP	46.00	-11.30	1.09 V	259	13.60	21.20
9	800.00	30.7 QP	46.00	-15.30	1.28 V	101	5.80	24.90

- 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	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	41.3 PK	74.00	-32.70	1.08 H	141	13.40	27.90
2	*2412.00	95.7 PK			1.08 H	141	64.70	31.10
2	*2412.00	80.9 AV			1.08 H	141	49.90	27.90
3	3216.00	45.3 PK	74.00	-28.70	1.57 H	238	11.20	34.10
4	4824.00	47.2 PK	74.00	-26.80	1.08 H	141	9.70	37.50

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	39.6 PK	74.00	-34.40	1.18 V	204	11.70	27.90
2	*2412.00	90.6 PK			1.11 V	216	59.60	31.10
2	*2412.00	76.9 AV			1.11 V	216	45.90	27.90
3	3216.00	45.3 PK	74.00	-28.70	1.46 V	262	11.20	34.10
4	4824.00	49.4 PK	74.00	-24.60	1.40 V	94	11.90	37.50

- 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	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	41.2 PK	74.00	-32.80	1.15 H	24	13.20	28.00
2	*2437.00	93.1 PK			1.14 H	245	62.00	31.10
2	*2437.00	77.8 AV			1.14 H	245	46.70	28.00
3	3248.00	44.8 PK	74.00	-29.20	1.30 H	52	10.70	34.10
4	4874.00	48.5 PK	74.00	-25.50	1.15 H	24	10.90	37.60

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	1624.00	38.8 PK	74.00	-35.20	1.17 V	72	10.80	28.00
2	*2437.00	93.1 PK			1.38 V	85	61.90	31.10
2	*2437.00	77.9 AV			1.38 V	85	46.80	28.00
3	3248.00	46.1 PK	74.00	-27.90	1.30 V	52	11.90	34.10
4	4874.00	48.0 PK	74.00	-26.00	1.58 V	117	10.40	37.60

- 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	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	1647.00	40.4 PK	74.00	-33.60	1.38 H	24	12.30	28.10
2	*2462.00	94.3 PK			1.11 H	144	63.10	31.20
2	*2462.00	74.6 AV			1.11 H	144	43.40	28.10
3	3282.00	46.6 PK	74.00	-27.40	1.38 H	24	12.40	34.20
4	4924.00	34.8 PK	74.00	-39.20	1.38 H	24	-2.80	37.60

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	1647.00	39.1 PK	74.00	-34.90	1.38 V	24	11.00	28.10
2	*2462.00	93.5 PK			1.45 V	224	62.30	31.20
2	*2462.00	77.5 AV			1.45 V	224	46.30	28.10
3	3282.00	46.8 PK	74.00	-27.20	1.38 V	24	12.50	34.20
4	4924.00	47.8 PK	74.00	-26.20	1.38 V	24	10.10	37.60

- 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 1		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 66%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	41.3 PK	74.00	-32.70	1.43 H	86	13.40	27.90
2	*2412.00	84.4 PK			1.48 H	261	53.30	31.10
2	*2412.00	71.9 AV			1.48 H	261	40.80	27.90
3	3216.00	45.3 PK	74.00	-28.70	1.86 H	186	11.20	34.10
4	4821.00	47.1 PK	74.00	-26.90	1.50 H	186	9.70	37.50

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	42.0 PK	74.00	-32.00	1.25 V	198	14.10	27.90
2	*2412.00	84.8 PK			1.04 V	84	53.70	31.10
2	*2412.00	70.8 AV			1.04 V	84	39.70	27.90
3	3216.00	46.1 PK	74.00	-27.90	1.33 V	24	12.10	34.10
4	4824.00	47.8 PK	74.00	-26.20	1.22 V	206	10.30	37.50
5	7235.00	51.4 PK	74.00	-22.60	1.29 V	158	9.90	41.50

- 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		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 66%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	41.2 PK	74.00	-32.80	1.41 H	103	13.20	28.00
2	*2437.00	81.9 PK			1.51 H	360	50.80	31.10
2	*2437.00	68.9 AV			1.51 H	360	37.80	28.00
3	3248.00	44.8 PK	74.00	-29.20	1.54 H	194	10.70	34.10
4	4874.00	47.2 PK	74.00	-26.80	1.55 H	209	9.70	37.60

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	38.8 PK	74.00	-35.20	1.54 V	132	10.80	28.00
2	*2437.00	80.3 PK			1.26 V	254	49.10	31.10
2	*2437.00	68.2 AV			1.26 V	254	37.00	28.00
3	3248.00	46.6 PK	74.00	-27.40	1.45 V	206	12.50	34.10
4	4874.00	48.3 PK	74.00	-25.70	1.23 V	215	10.70	37.60

- 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 11		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 66%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	1647.00	40.5 PK	74.00	-33.50	1.51 H	210	12.40	28.10
2	*2462.00	91.4 PK			1.25 H	250	60.20	31.20
2	*2462.00	75.3 AV			1.25 H	250	44.10	28.10
3	3282.00	46.6 PK	74.00	-27.40	1.15 H	120	12.40	34.20
4	4924.00	48.2 PK	74.00	-25.80	1.38 H	222	10.60	37.60

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	1647.00	39.6 PK	74.00	-34.40	1.08 V	215	11.50	28.10
2	*2462.00	83.7 PK			2.03 V	154	52.50	31.20
2	*2462.00	73.3 AV			2.03 V	154	42.10	28.10
3	3282.00	46.3 PK	74.00	-27.70	1.80 V	188	12.10	34.20
4	4924.00	47.6 PK	74.00	-26.40	1.11 V	222	10.00	37.60

- 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.

4.2.9 TEST RESULTS (C)

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	Channel 11	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	116.58	37.5 QP	43.50	-6.00	1.32 H	202	24.30	13.30
2	163.25	35.8 QP	43.50	-7.70	1.32 H	26	25.00	10.80
3	197.03	30.8 QP	43.50	-12.70	1.32 H	210	19.90	10.90
4	243.90	35.1 QP	46.00	-10.90	1.32 H	172	20.00	15.00
5	284.95	25.7 QP	46.00	-20.30	1.32 H	279	9.10	16.60
6	324.88	27.1 QP	46.00	-18.90	1.32 H	76	9.90	17.20
7	364.88	33.6 QP	46.00	-12.40	1.32 H	37	15.40	18.10
8	402.23	39.5 QP	46.00	-6.50	1.32 H	123	20.30	19.10
9	759.40	24.9 QP	46.00	-21.10	1.04 H	250	0.60	24.30

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	117.48	38.8 QP	43.50	-4.70	1.29 V	212	25.50	13.30
2	159.18	36.6 QP	43.50	-6.90	1.29 V	40	25.70	10.90
3	199.23	38.1 QP	43.50	-5.40	1.29 V	218	27.10	11.00
4	243.43	35.5 QP	46.00	-10.50	1.45 V	40	20.60	15.00
5	280.90	38.3 QP	46.00	-7.70	1.45 V	211	21.80	16.50
6	317.13	31.5 QP	46.00	-14.50	1.41 V	149	14.40	17.10
7	360.23	37.2 QP	46.00	-8.80	1.41 V	35	19.20	18.00
8	402.28	36.1 QP	46.00	-9.90	1.41 V	218	17.00	19.10
9	438.23	43.2 QP	46.00	-2.80	1.41 V	49	23.60	19.60
10	597.23	43.6 QP	46.00	-2.40	1.53 V	247	21.00	22.60

- 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.

EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
MODE	CCK	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	41.3 PK	74.00	-32.70	1.36 H	218	13.40	27.90
2	*2412.00	98.5 PK			1.41 H	176	67.40	31.10
2	*2412.00	80.8 AV			1.41 H	176	49.70	27.90
3	3216.00	47.1 PK	74.00	-26.90	1.39 H	41	13.10	34.10
4	4824.00	47.9 PK	74.00	-26.10	1.24 H	52	10.40	37.50

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	40.9 PK	74.00	-33.10	1.33 V	74	13.00	27.90
2	*2412.00	93.3 PK			1.61 V	241	62.20	31.10
2	*2412.00	78.6 AV			1.61 V	241	47.50	27.90
3	3216.00	45.0 PK	74.00	-29.00	1.52 V	117	10.90	34.10
4	4824.00	47.2 PK	74.00	-26.80	1.22 V	252	9.70	37.50

- 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	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	41.2 PK	74.00	-32.80	1.31 H	50	13.20	28.00
2	*2437.14	99.1 PK			1.20 H	241	68.00	31.20
2	*2437.14	83.1 AV			1.20 H	241	51.90	28.00
3	3248.00	46.1 PK	74.00	-27.90	1.55 H	172	11.90	34.10
4	4874.00	48.2 PK	74.00	-25.80	1.31 H	94	10.60	37.60

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	1624.00	41.3 PK	74.00	-32.70	1.30 V	24	13.30	28.00
2	*2437.00	95.4 PK			1.25 V	171	64.30	31.10
2	*2437.00	79.1 AV			1.25 V	171	48.00	28.00
3	3248.00	45.9 PK	74.00	-28.10	1.63 V	112	11.70	34.10
4	4874.00	48.1 PK	74.00	-25.90	1.24 V	47	10.50	37.60

- 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	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	44.9 PK	74.00	-29.10	1.20 H	241	16.80	28.10
2	*2462.00	97.7 PK			1.01 H	68	66.50	31.20
2	*2462.00	82.6 AV			1.01 H	68	51.40	28.10
3	3282.00	45.2 PK	74.00	-28.80	1.57 H	104	11.00	34.20
4	4924.00	47.4 PK	74.00	-26.60	1.27 H	244	9.70	37.60

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	1641.00	39.5 PK	74.00	-34.50	1.24 V	85	11.40	28.10
2	*2462.00	91.3 PK			1.49 V	208	60.00	31.20
2	*2462.00	77.0 AV			1.49 V	208	45.80	28.10
3	3282.00	45.2 PK	74.00	-28.80	1.78 V	45	11.00	34.20
4	4924.00	47.8 PK	74.00	-26.20	1.18 V	207	10.10	37.60

- 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 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 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	41.5 PK	74.00	-32.50	1.00 H	148	13.60	27.90
2	*2412.00	94.2 PK			1.21 H	124	63.10	31.10
2	*2412.00	79.9 AV			1.21 H	124	48.80	27.90
3	3216.00	47.6 PK	74.00	-26.40	1.55 H	245	13.50	34.10
4	4824.00	59.2 PK	74.00	-14.80	1.24 H	157	21.70	37.50

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	40.9 PK	74.00	-33.10	1.33 V	74	13.00	27.90
2	*2412.00	92.4 PK			1.61 V	117	61.40	31.10
2	*2412.00	78.0 AV			1.61 V	117	46.90	27.90
3	3216.00	45.5 PK	74.00	-28.50	1.52 V	174	11.40	34.10
4	4824.00	50.8 PK	74.00	-23.20	1.22 V	252	13.40	37.50

- 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		
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	41.2 PK	74.00	-32.80	1.32 H	108	13.20	28.00
2	*2437.00	92.1 PK			1.08 H	234	60.90	31.10
2	*2437.00	78.3 AV			1.08 H	234	47.10	28.00
3	3248.00	46.8 PK	74.00	-27.20	1.55 H	72	12.70	34.10
4	4874.00	52.8 PK	74.00	-21.20	1.08 H	234	15.20	37.60

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	41.3 PK	74.00	-32.70	1.14 V	117	13.30	28.00
2	*2437.00	88.0 PK			1.25 V	225	56.90	31.10
2	*2437.00	75.0 AV			1.25 V	225	43.90	28.00
3	3248.00	45.9 PK	74.00	-28.10	1.46 V	163	11.80	34.10
4	4874.00	50.1 PK	74.00	-23.90	1.41 V	113	12.50	37.60

- 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 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 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	44.8 PK	74.00	-29.20	1.42 H	147	16.70	28.10
2	*2462.00	92.5 PK			1.42 H	67	61.30	31.20
2	*2462.00	78.9 AV			1.42 H	67	47.70	28.10
3	3282.00	45.1 PK	74.00	-28.90	1.25 H	167	10.90	34.20
4	4924.00	53.3 PK	74.00	-20.70	1.41 H	254	15.70	37.60

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	1641.00	39.8 PK	74.00	-34.20	1.24 V	100	11.70	28.10
2	*2462.00	88.7 PK			1.47 V	145	57.50	31.20
2	*2462.00	75.8 AV			1.47 V	145	44.50	28.10
3	3282.00	45.2 PK	74.00	-28.80	1.78 V	45	11.00	34.20
4	4924.00	49.4 PK	74.00	-24.60	1.47 V	145	11.80	37.60

- 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.



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

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

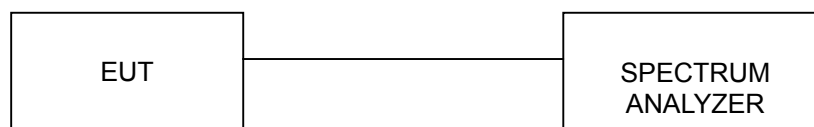
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 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.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



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

4.3.6 EUT OPERATING CONDITIONS

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

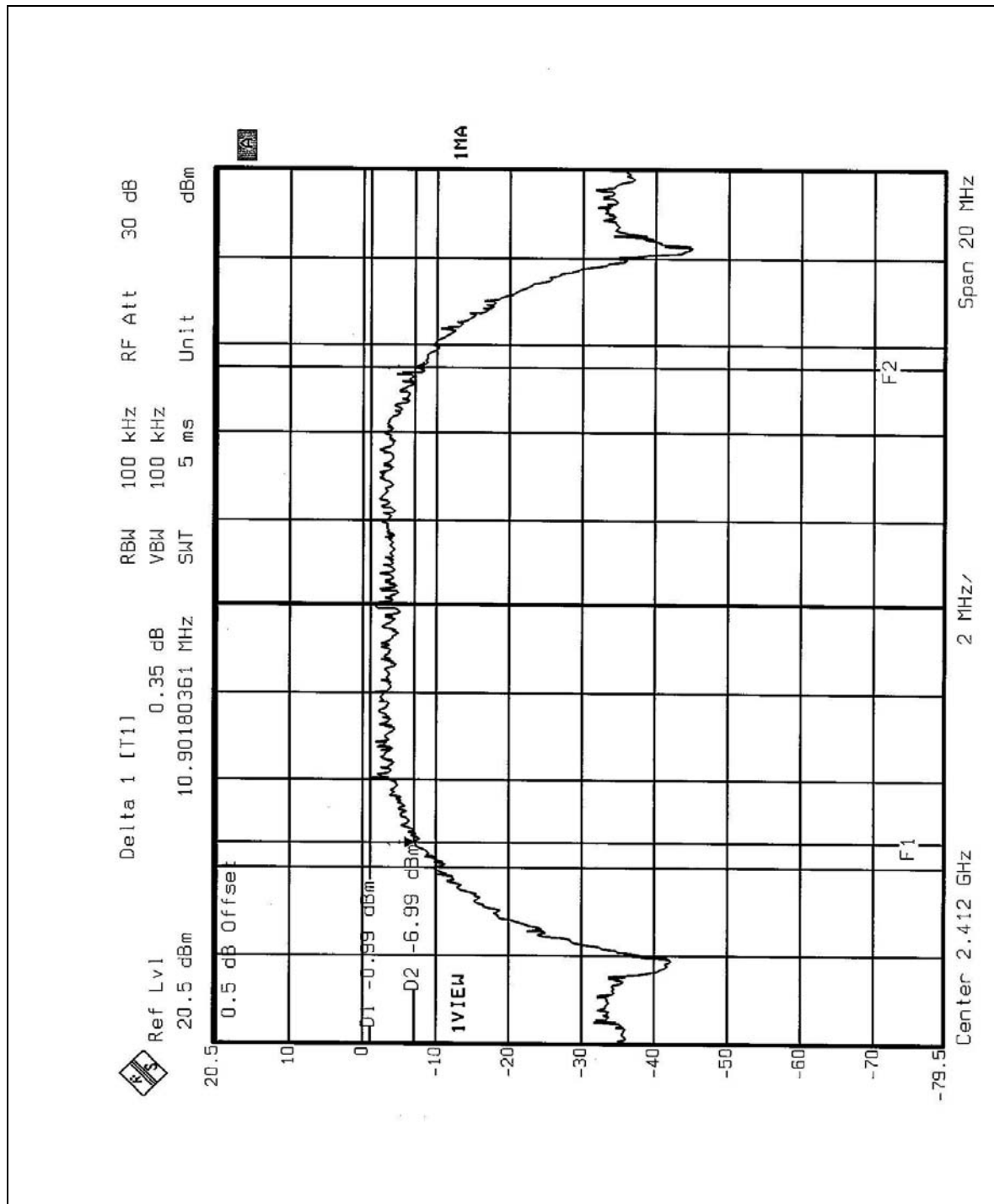


4.3.7 TEST RESULTS

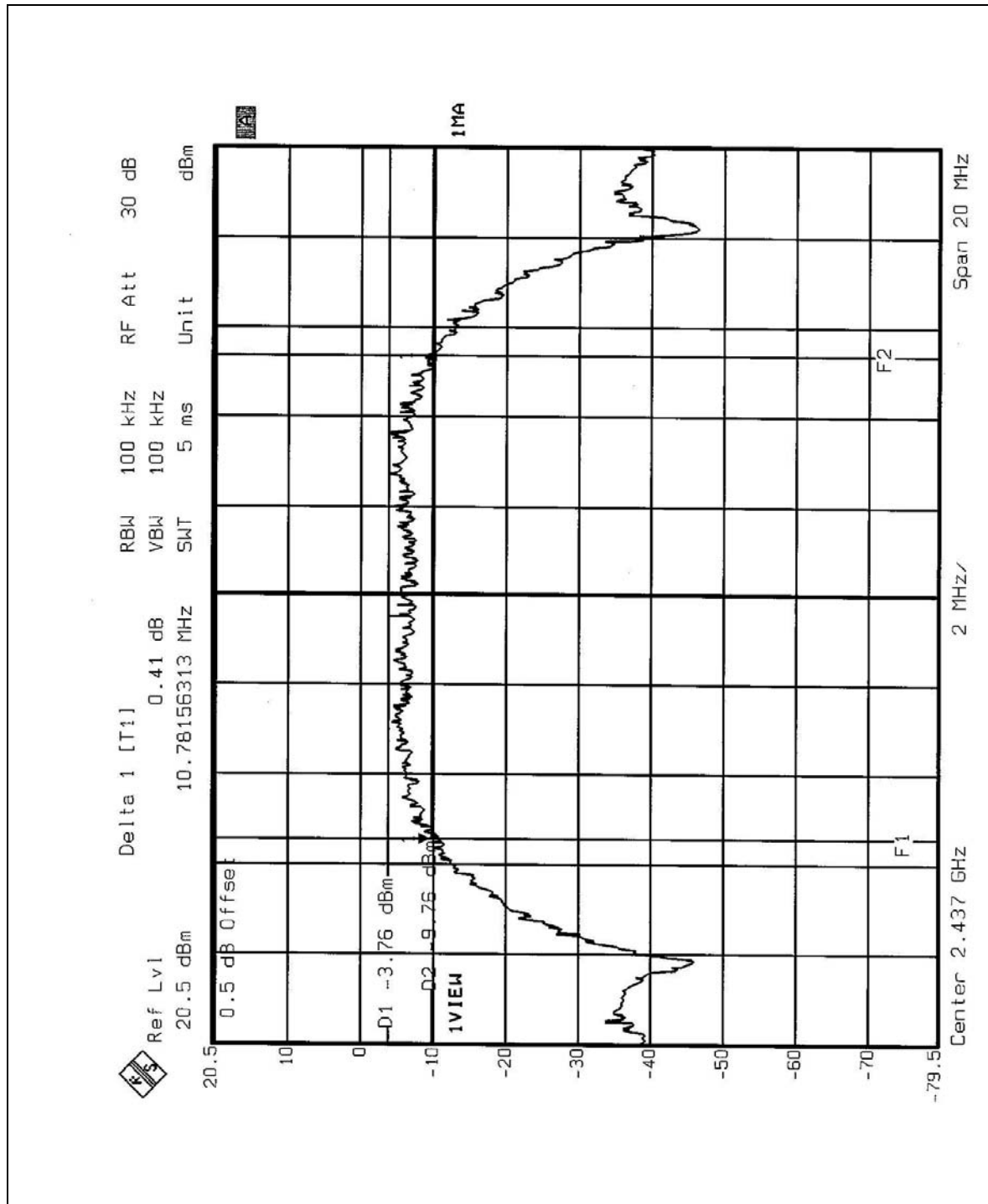
EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
		MODE	CCK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 70%RH, 991hPa
TESTED BY: Ansen Lei			

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

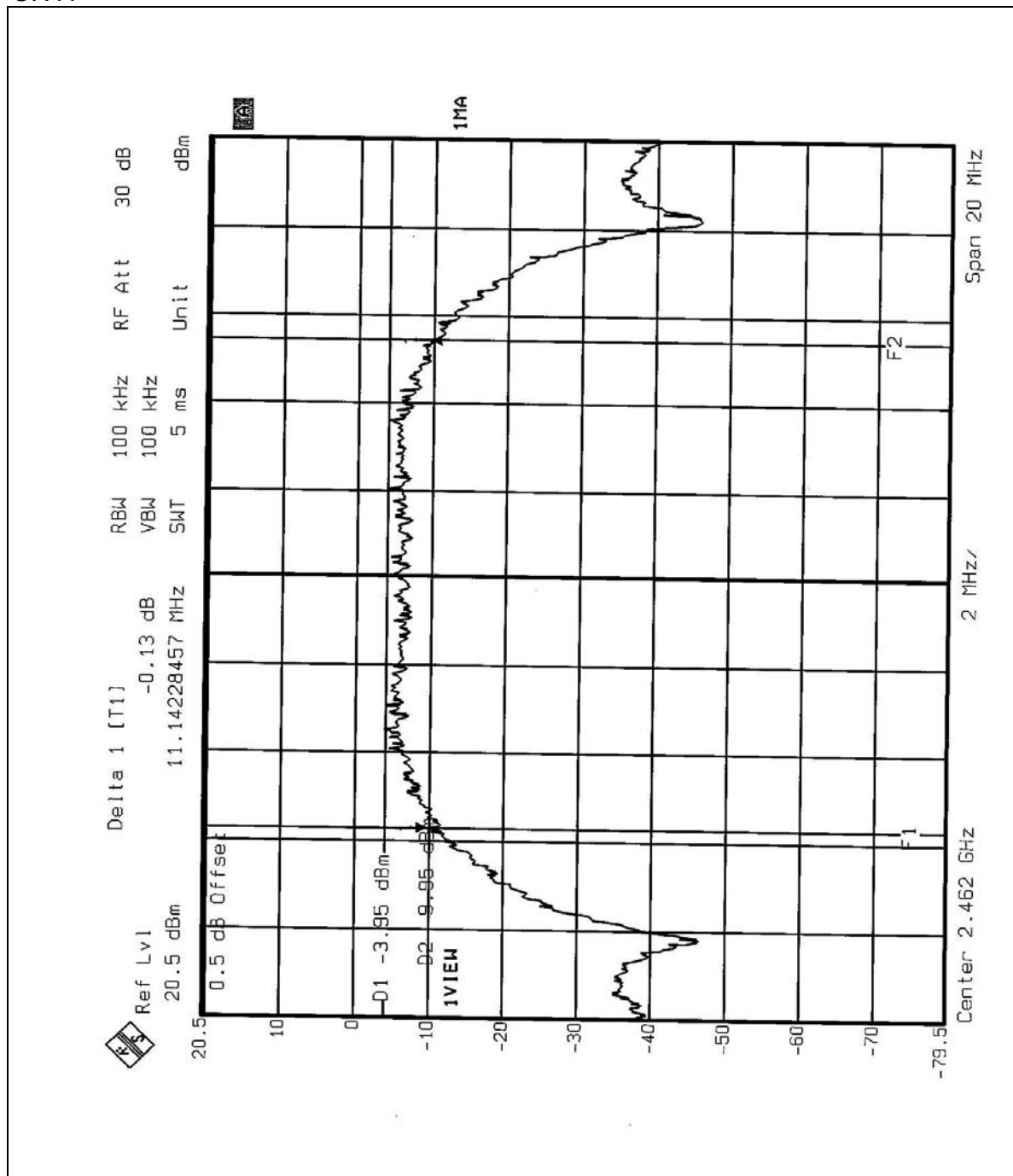
CH1



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

Delta 1 [T1] 0.08 dB 100 kHz RBW 100 kHz VBW 5 ms SWT 16.43286573 MHz 30 dB RF Att Unit dBm

Ref Lvl 20.5 dBm

0.5 dB Offset

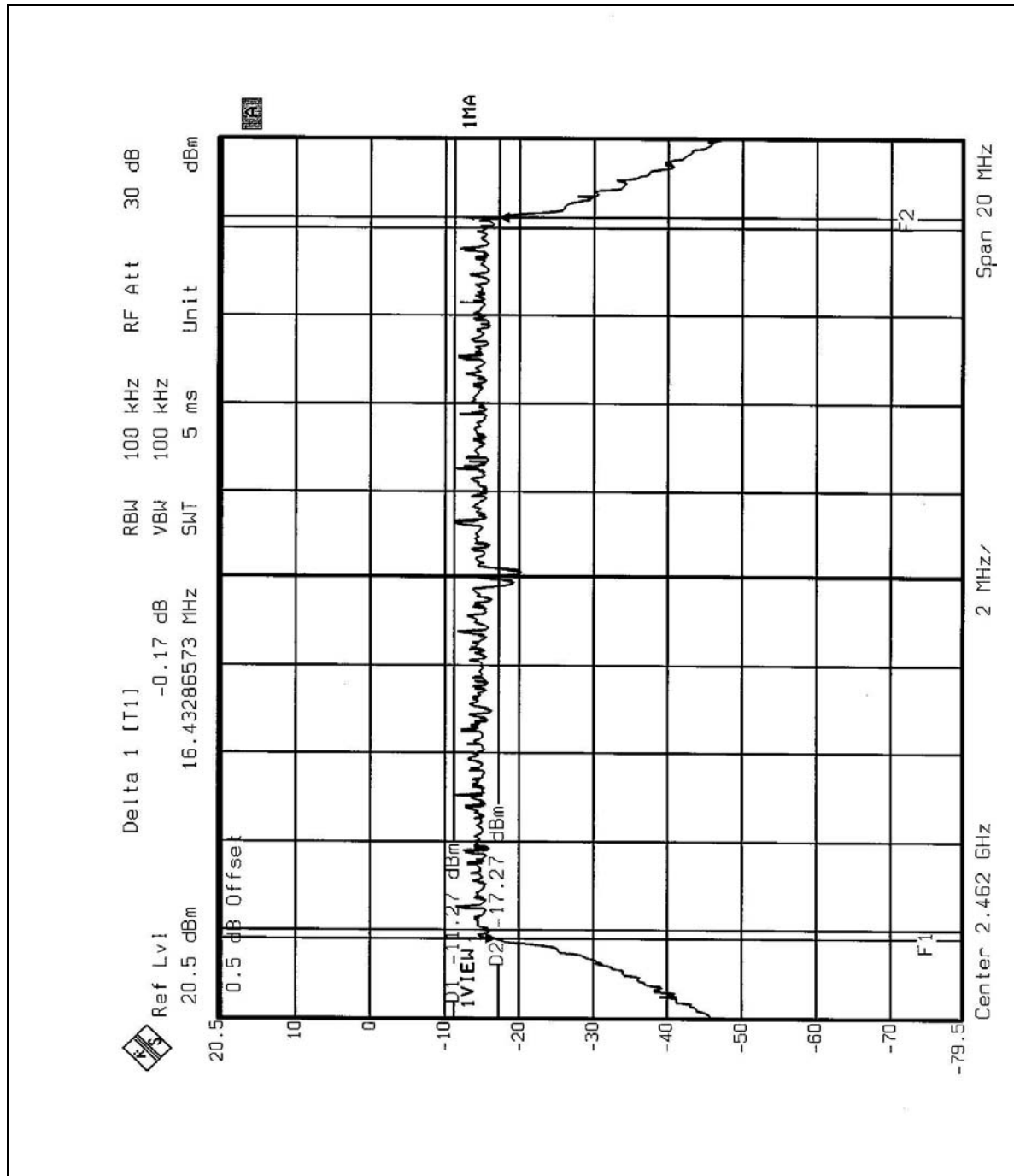
1VIEW 02-16.81 dBm

F1 F2

Center 2.412 GHz Span 20 MHz

Delta 1 [T1]
Ref Lvl 20.5 dBm
0.5 dB Offset
1V1EW
D2
F1
F2
Center 2.437 GHz
Span 20 MHz

CH11



4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
POWER METER	E4416A	GB41291118	July 30, 2003
PEAK POWER SENSOR	E9327A	US40440722	July 30, 2003

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

4.4.3 TEST PROCEDURES

The transmitter output was connected to the peak power meter.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS

EUT	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	11.62	30	PASS
6	2437	11.17	30	PASS
11	2462	10.16	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	11.82	30	PASS
6	2437	11.39	30	PASS
11	2462	11.46	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

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

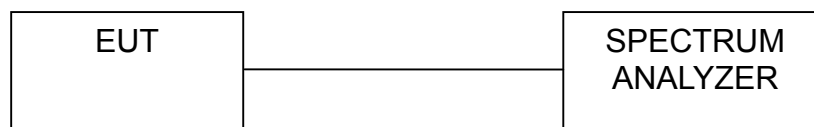
4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 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.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

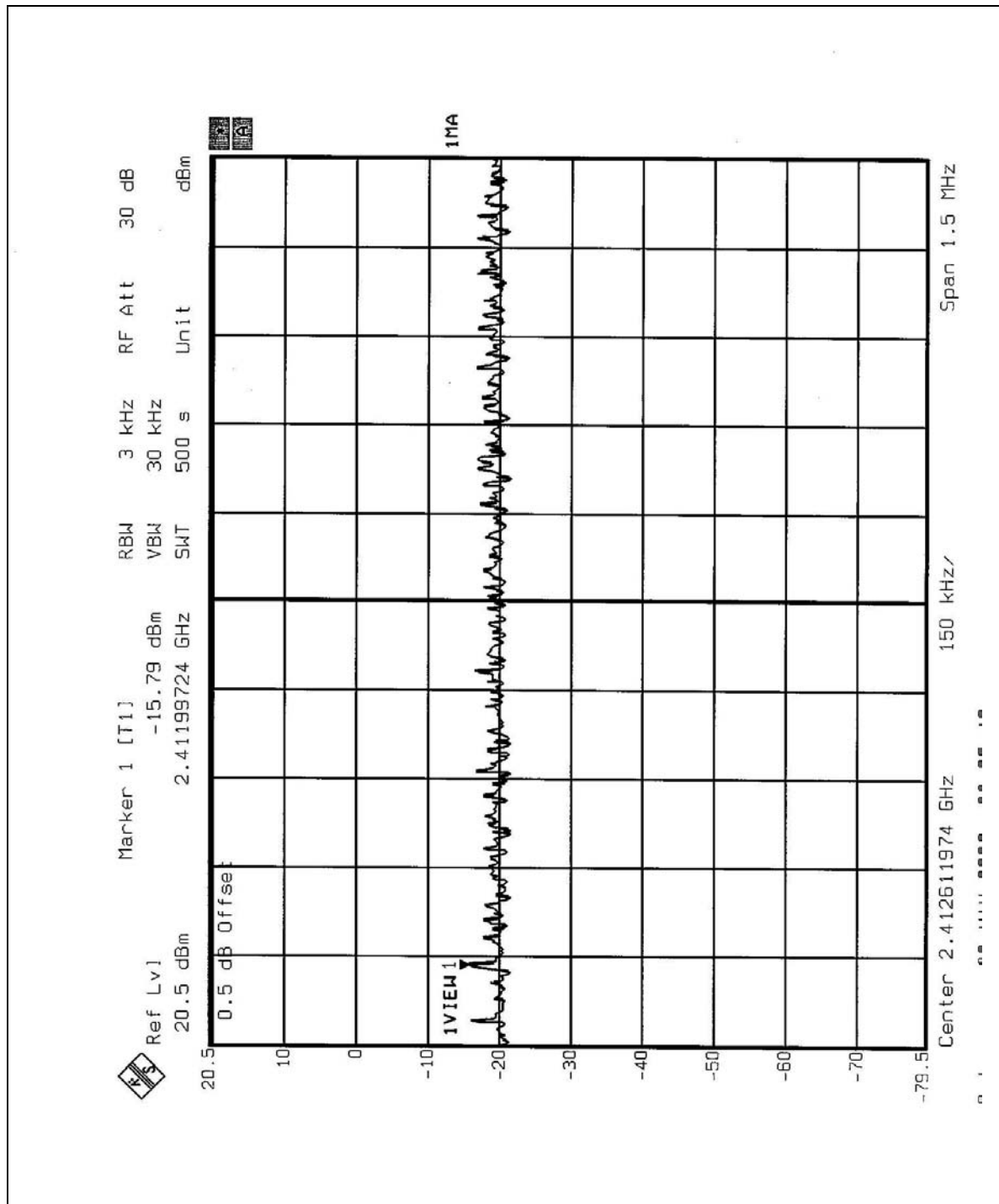
Same as 4.3.6

4.5.7 TEST RESULTS

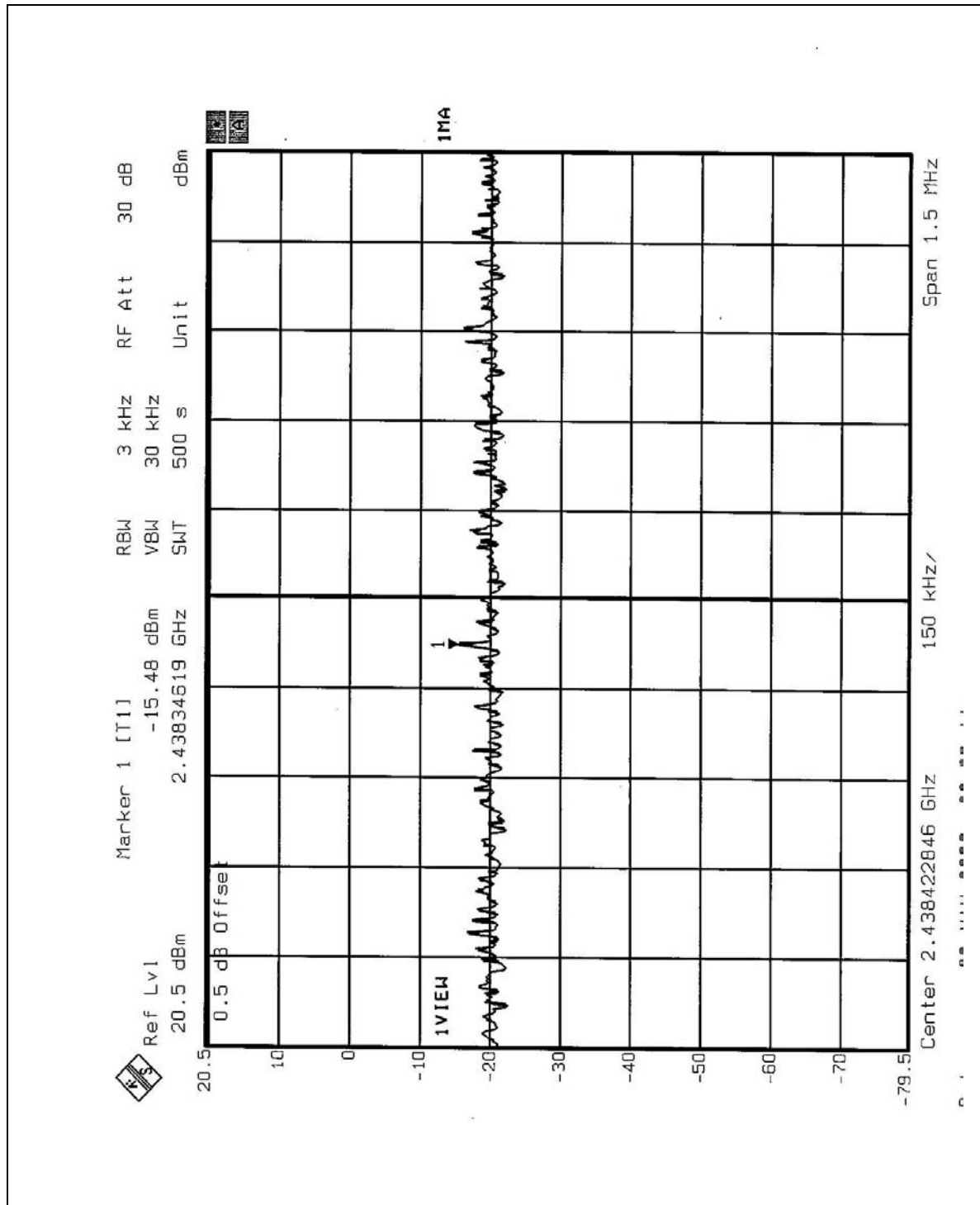
EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
		MODE	CCK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 70%RH, 991hPa
TESTED BY: Ansen Lei			

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

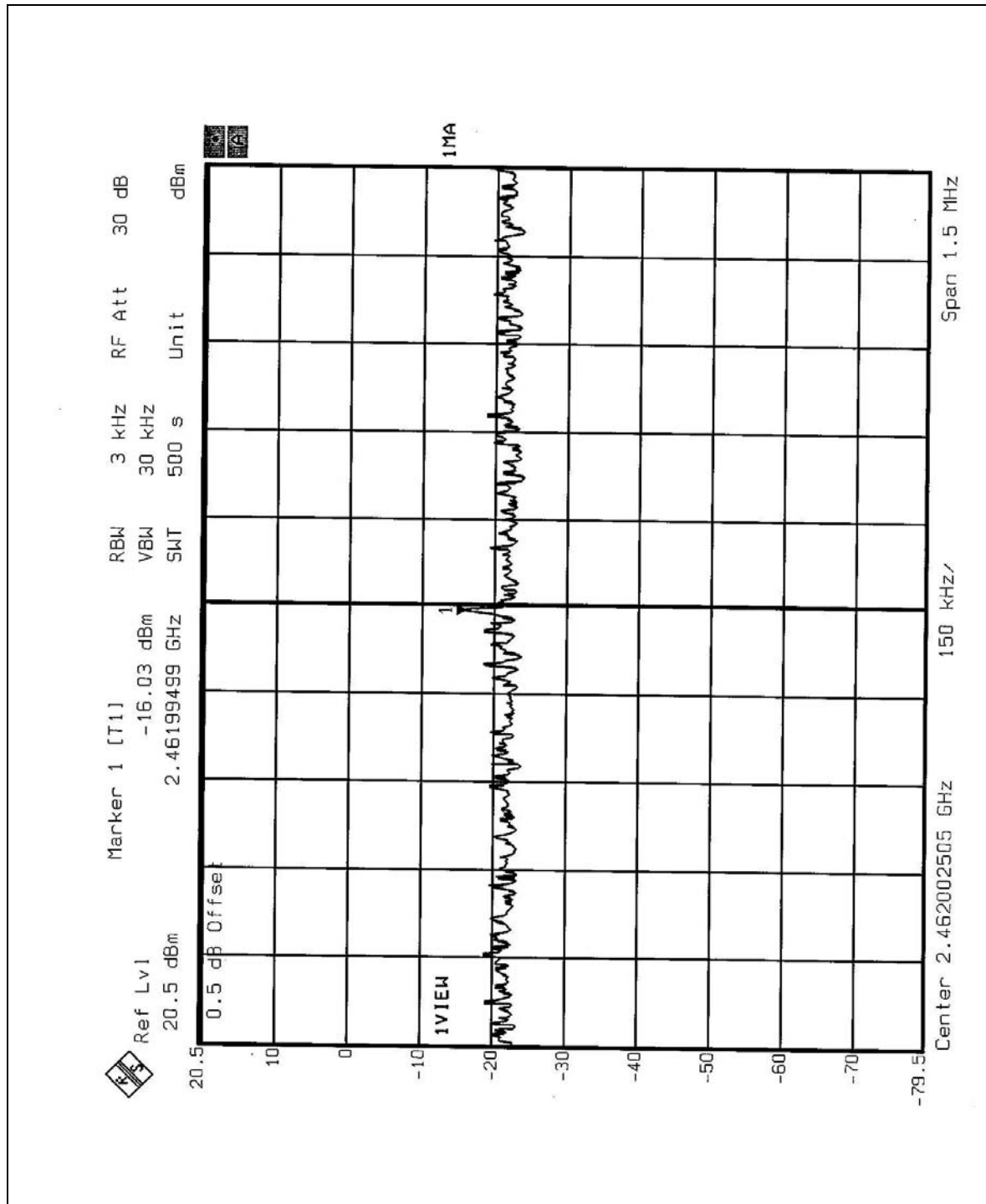
CH1



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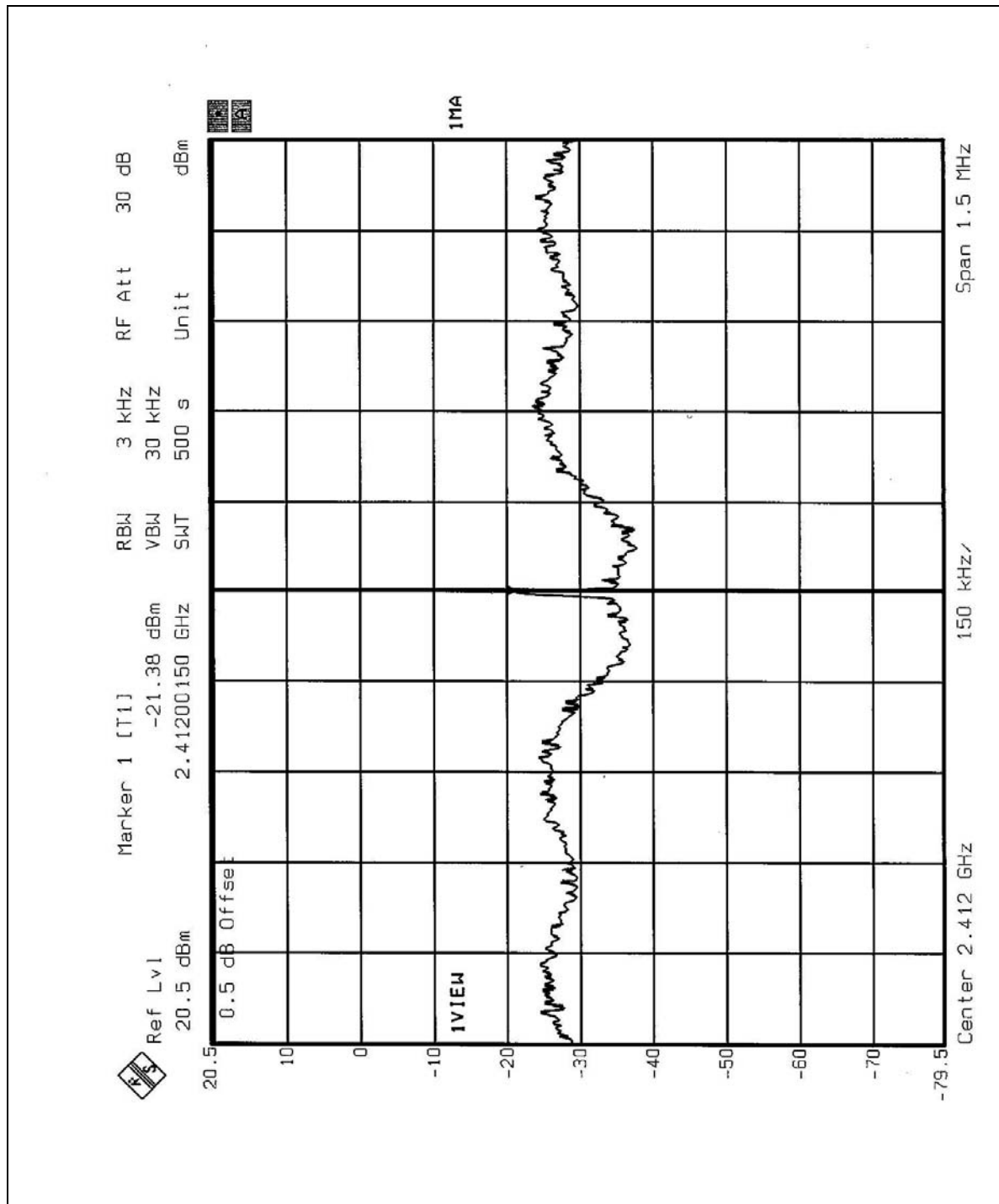




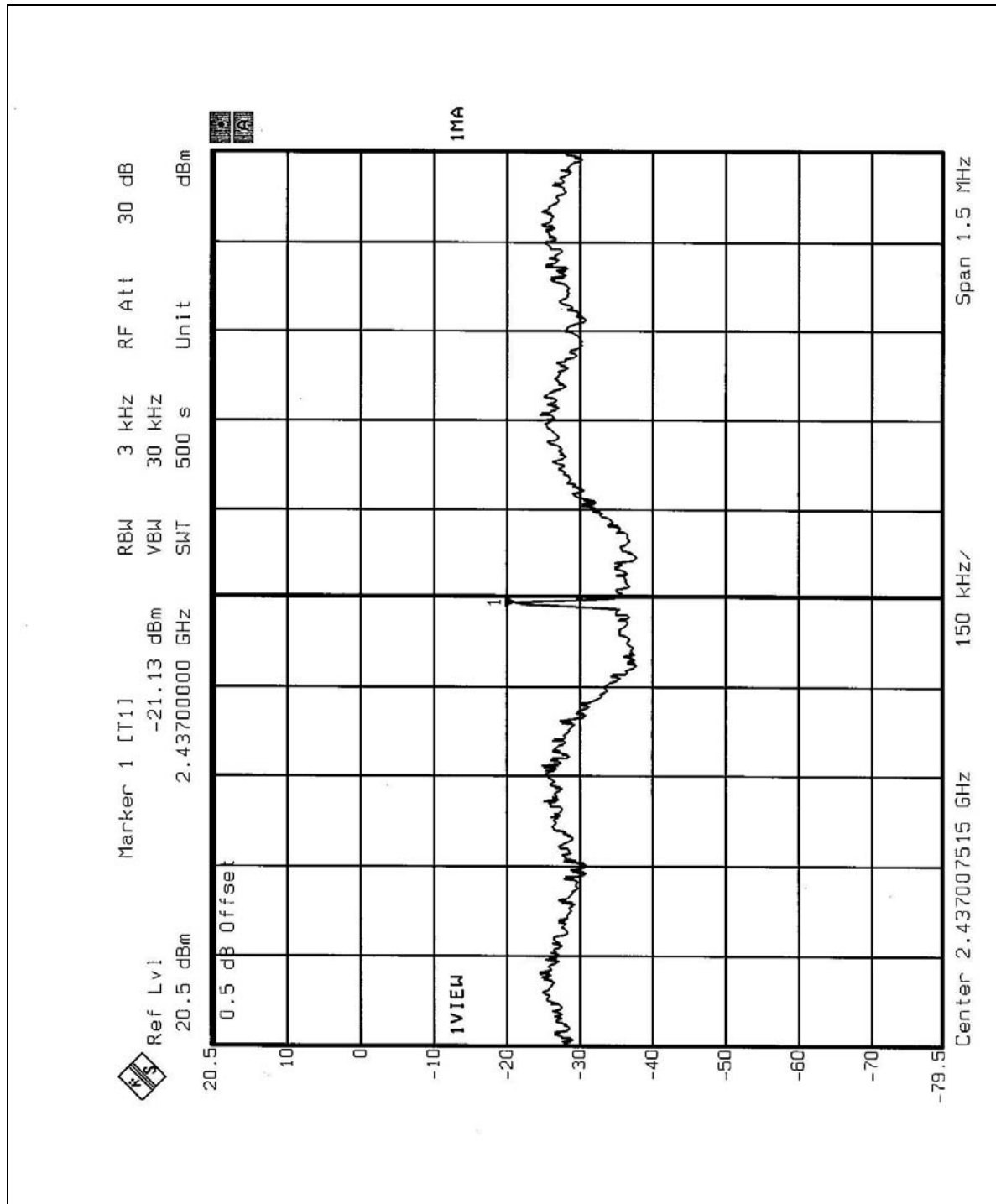
EUT	802.11g mini-PCI transmitter module	MODEL	BCM94306MP
		MODE	OFDM
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 70%RH, 991hPa
TESTED BY: Ansen Lei			

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

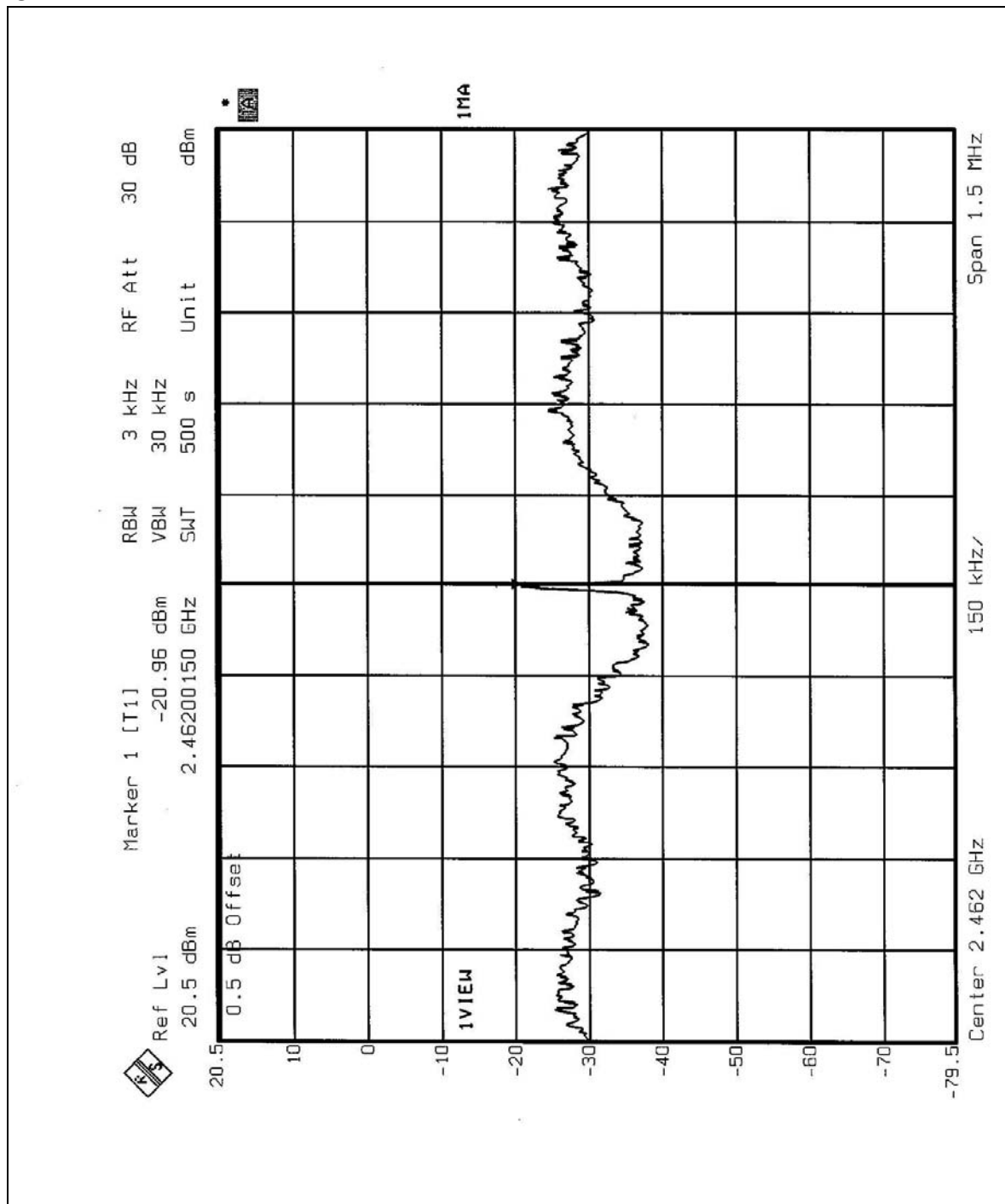
CH1



CH6



CH11



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

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

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge. The band edges were measured and recorded.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

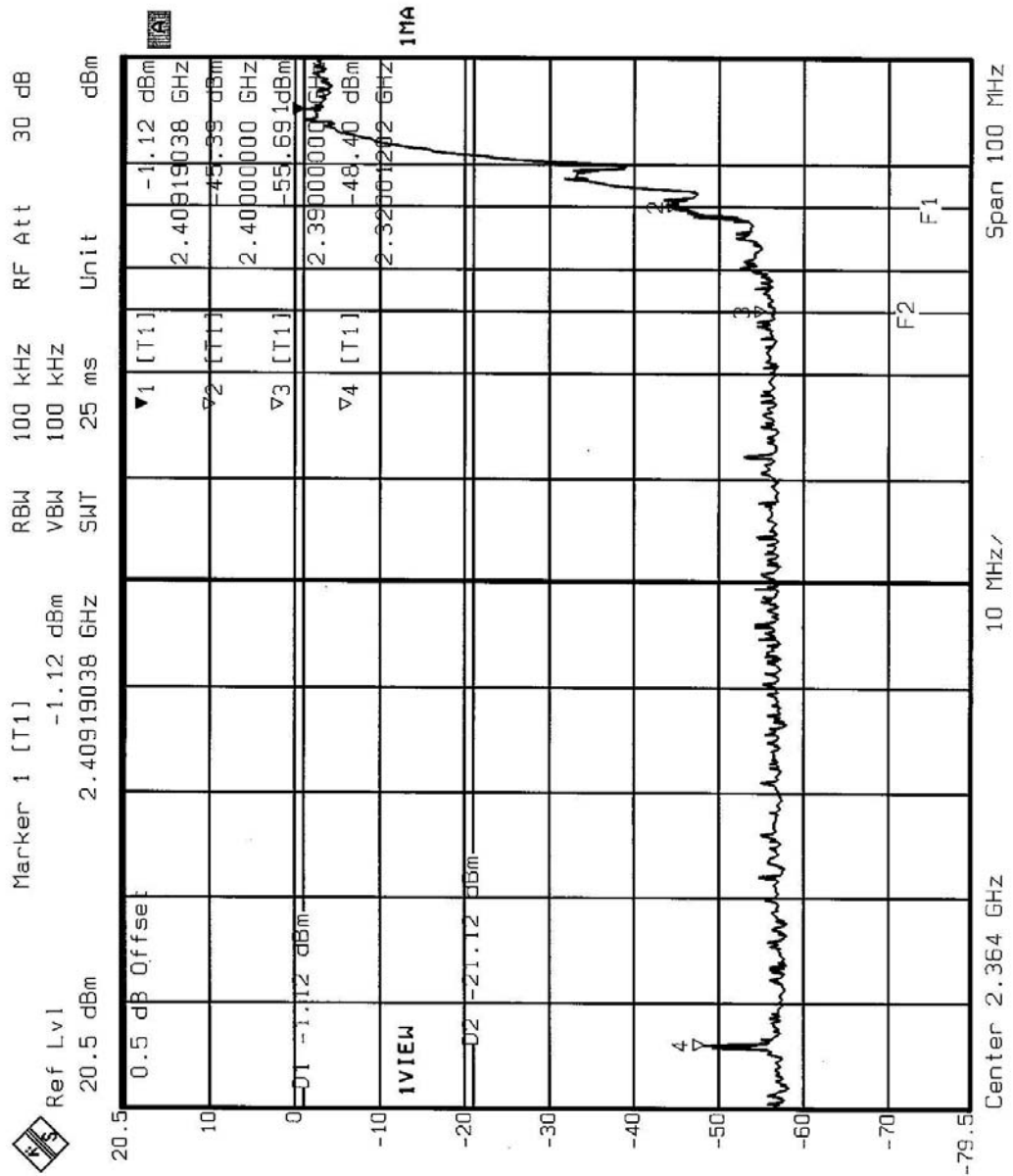
Same as Item 4.3.6

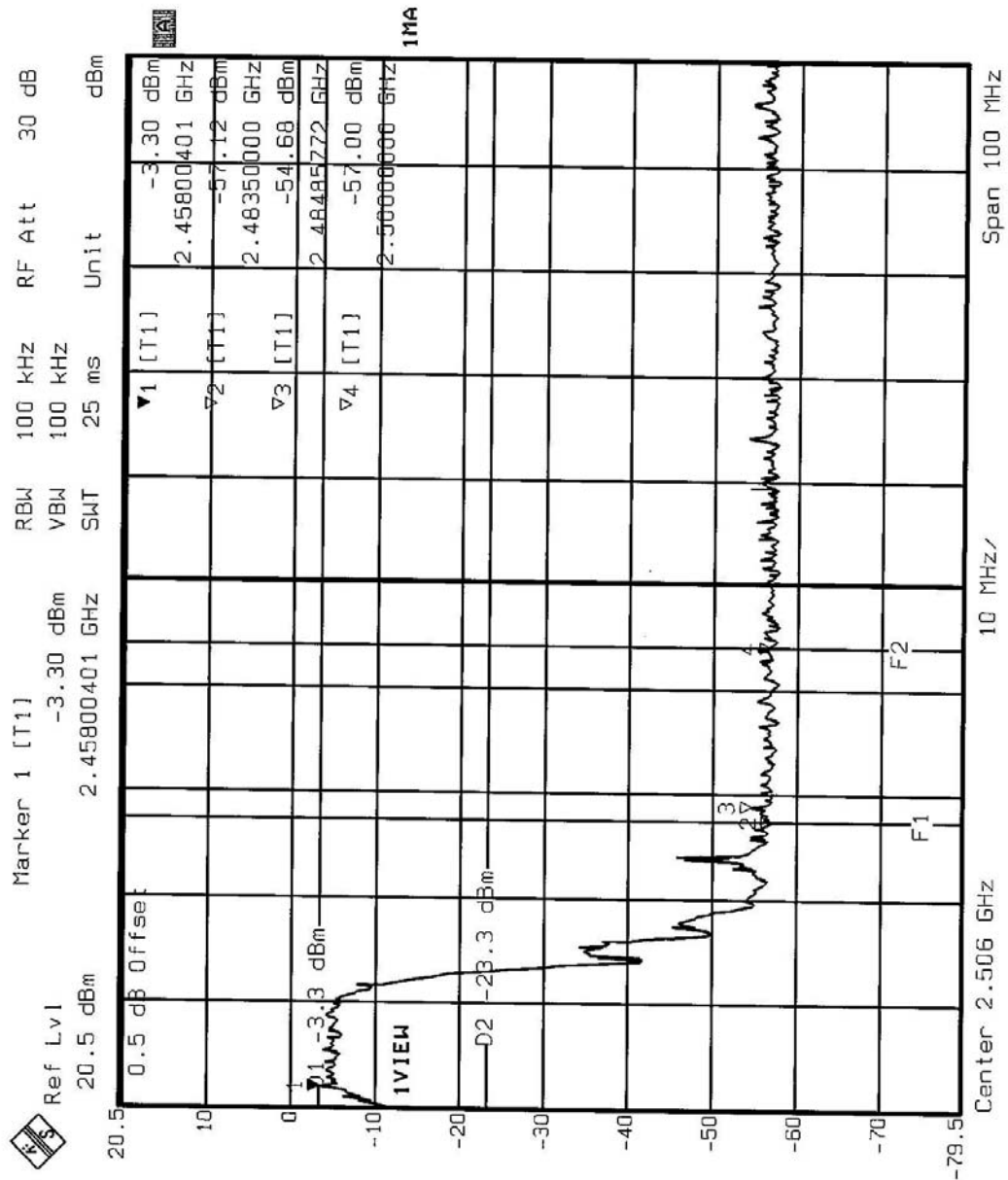
4.6.6 TEST RESULTS

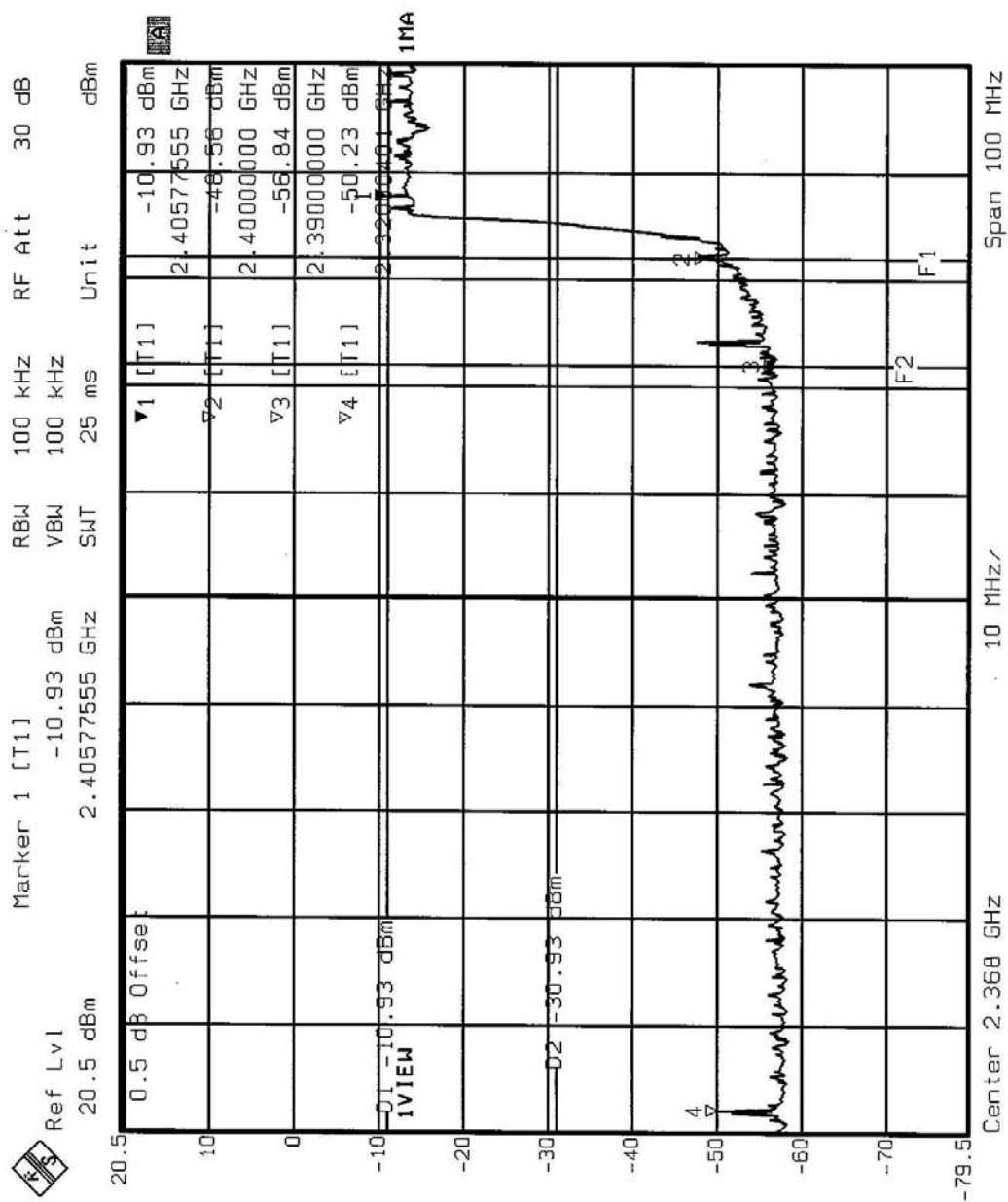
The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

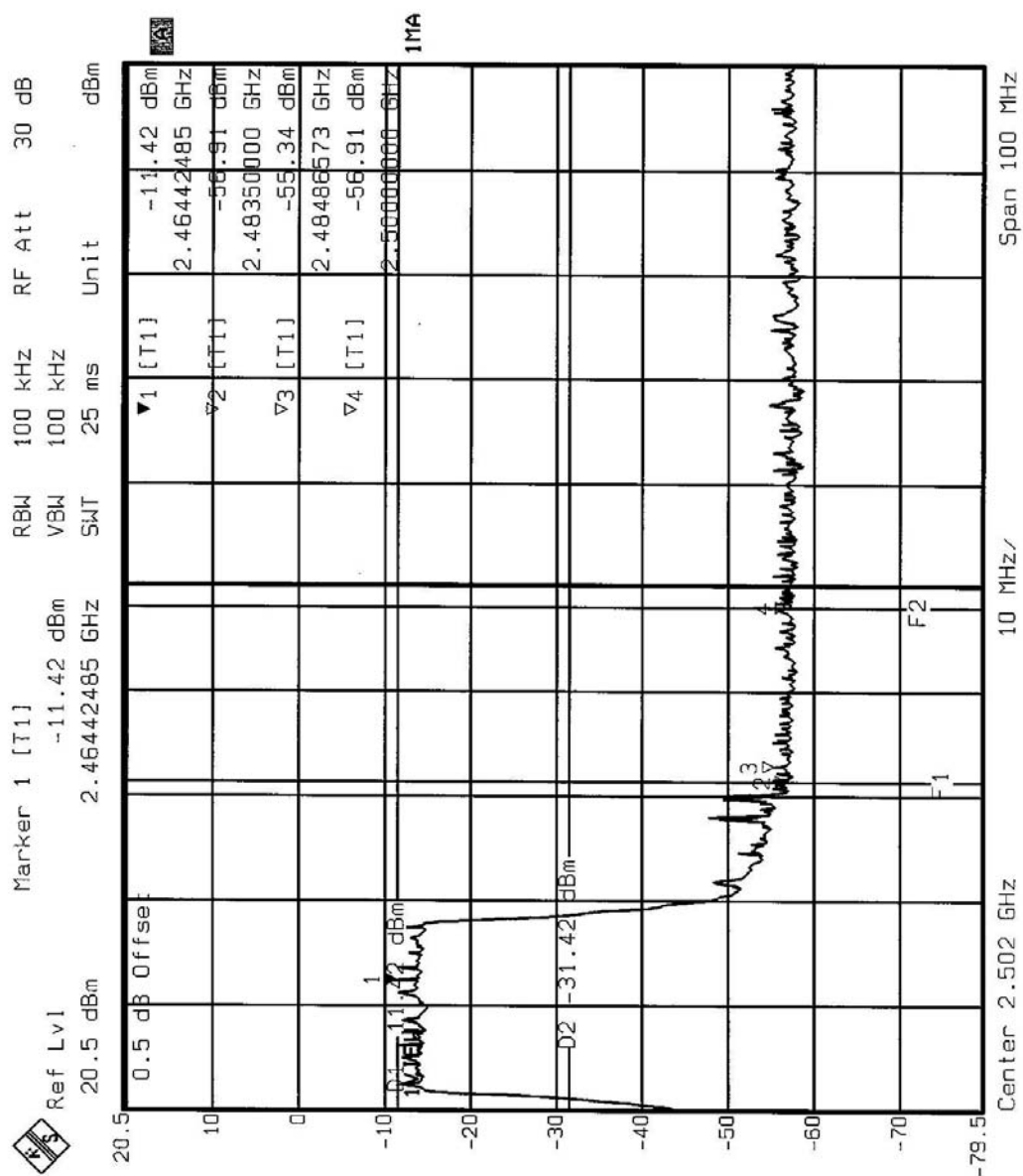
NOTE 1: The band edge emission plot on the following 1-2 pages shows 47.28dB / 51.38dB delta between carrier maximum power and local maximum emission in restrict band (2.3200GHz / 2.4849GHz). The emission of carrier strength list in the test result of channel 1 of CCK technique at the item 4.2.7 is 85.0dBuV/m, so the maximum field strength in restrict band is $85.0 - 47.28 = 37.72$ 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 83.8dBuV/m, so the maximum field strength in restrict band is $83.80 - 39.30 = 44.50$ dBuV/m which is under 54dBuV/m limit.











4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

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

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

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna types used in this product are Inverted F and Printed Dipole with UFL connector. The maximum Gain of this antenna is 4.68dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

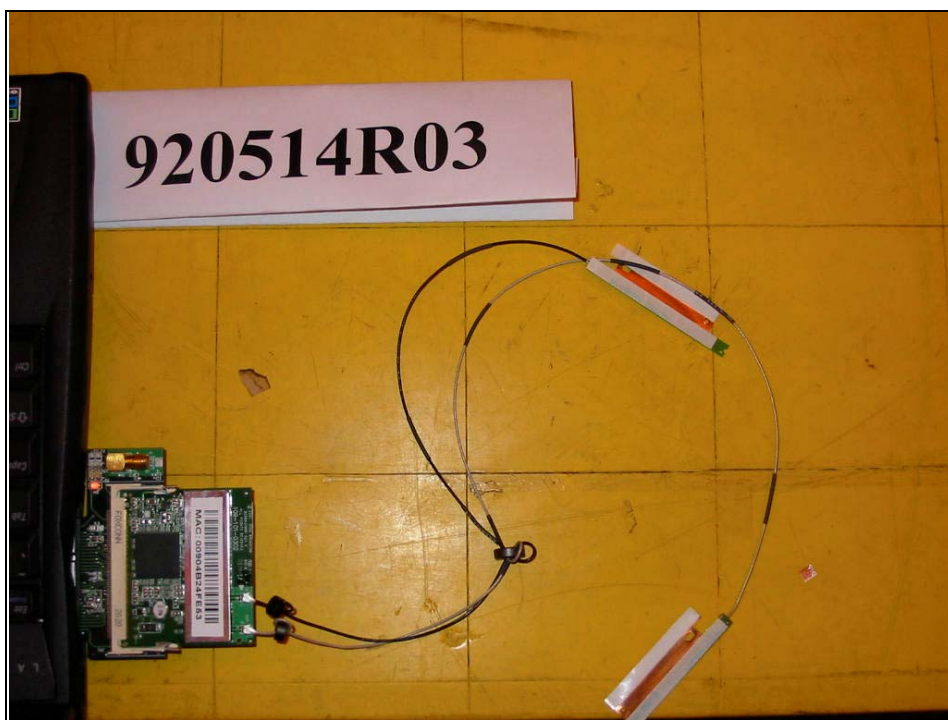
CONDUCTED EMISSION TEST





RADIATED EMISSION TEST







6 INFORMATION ON THE TESTING LABORATORIES

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

Lin Kou EMC Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC Lab:

Tel: 886-35-935343

Fax: 886-35-935342

Lin Kou Safety Lab:

Tel: 886-2-26093195

Fax: 886-2-26093184

Lin Kou RF&Telecom Lab

Tel: 886-3-3270910

Fax: 886-3-3270892

Email: service@mail.adt.com.tw

Web Site: www.adt.com.tw

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