



# FCC TEST REPORT

**REPORT NO.:** RF931009L04

**MODEL NO.:** WAP54G v2

**RECEIVED:** Oct. 11, 2004

**TESTED:** Oct. 11 ~ Oct. 21, 2004

**APPLICANT:** Cisco-Linksys, LLC

**ADDRESS:** 121 Theory Drive, Irvine, CA 92612, U.S.A.

**ISSUED BY:** Advance Data Technology Corporation

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang 244, Taipei Hsien, Taiwan, R.O.C.

**TEST LOCATION:** No. 19, Hwa Ya 2<sup>nd</sup> Rd., Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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No. 2177-01



0528  
ILAC MRA



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## 1 CERTIFICATION

**PRODUCT :** Wireless-G Access Point

**BRAND NAME :** Linksys

**MODEL NO. :** WAP54G v2

**APPLICANT :** Cisco-Linksys, LLC

**TESTED :** Oct. 11 ~ Oct. 21, 2004

**TEST SAMPLE :** ENGINEERING SAMPLE

**STANDARDS :** FCC Part 15, Subpart C (Section 15.247),  
ANSI C63.4-2003

The above equipment has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** Windy Chou, **DATE:** Oct. 22, 2004  
( Windy Chou )

**TECHNICAL  
ACCEPTANCE :** Gary Chang, **DATE:** Oct. 22, 2004  
Responsible for RF ( Gary Chang )

**APPROVED BY :** Cody Chang, **DATE:** Oct. 22, 2004  
( Cody Chang, Deputy Manager )

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -14.25dB at 0.384MHz
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 -1.12dB at 4924.00MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(e)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

Measurement	Frequency	Uncertainty
Conducted emissions	9k~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.73 dB
	200MHz ~ 1000MHz	3.74 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB



### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Wireless-G Access Point
<b>MODEL NO.</b>	WAP54G v2
<b>POWER SUPPLY</b>	12.0Vdc from Power Adapter
<b>MODULATION TYPE</b>	BPSK, QPSK, CCK, 16QAM, 64QAM
<b>RADIO TECHNOLOGY</b>	DSSS, OFDM
<b>TRANSFER RATE</b>	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
<b>FREQUENCY RANGE</b>	2412MHz ~ 2462MHz
<b>NUMBER OF CHANNEL</b>	11
<b>MAXIMUM OUTPUT POWER</b>	40.365mW
<b>ANTENNA TYPE</b>	Dipole antenna with 5dBi gain
<b>DATA CABLE</b>	NA
<b>I/O PORTS</b>	RJ45
<b>ASSOCIATED DEVICES</b>	NA

**NOTE:**

1. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
2. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.
3. The EUT was powered by the following adapter:

<b>Brand:</b>	Linksys
<b>Model:</b>	WD411200500
<b>Input:</b>	120V ac, 60Hz, 11W
<b>Output:</b>	12Vdc, 500mA

4. The above EUT information was declared by manufacturer and 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.

<b>Channel</b>	<b>Frequency</b>	<b>Channel</b>	<b>Frequency</b>
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. From our experience and technical viewpoint, we have chosen data rates 11Mbps for CCK technique and 6Mbps for OFDM technique, as the worst cases for the test among other data rates.
4. Two test results were presented in the following sections. The test result A was for CCK technique and the test result B was for OFDM technique.

### **3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS**

The EUT is a Wireless-G Access Point. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart C. (15.247)**  
**ANSI C63.4-2003**

All test items have been performed and recorded as per the above standards.

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



### 3.4 DESCRIPTION OF SUPPORT UNITS

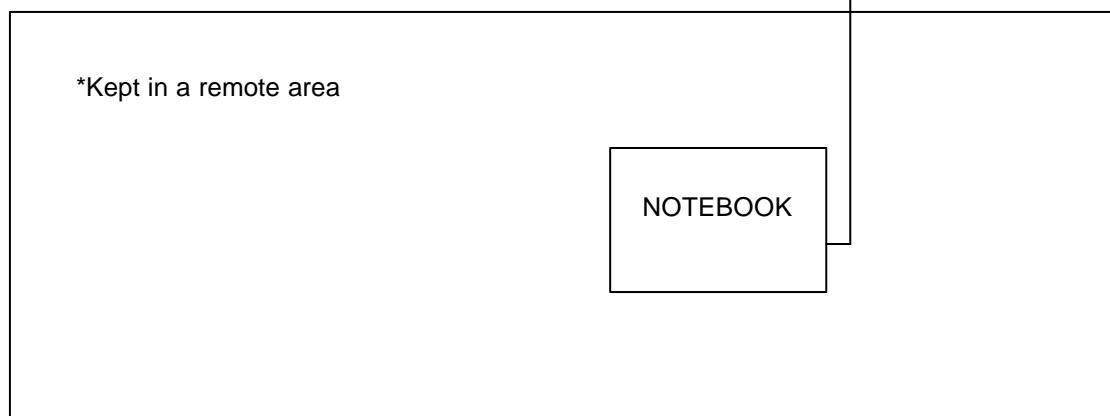
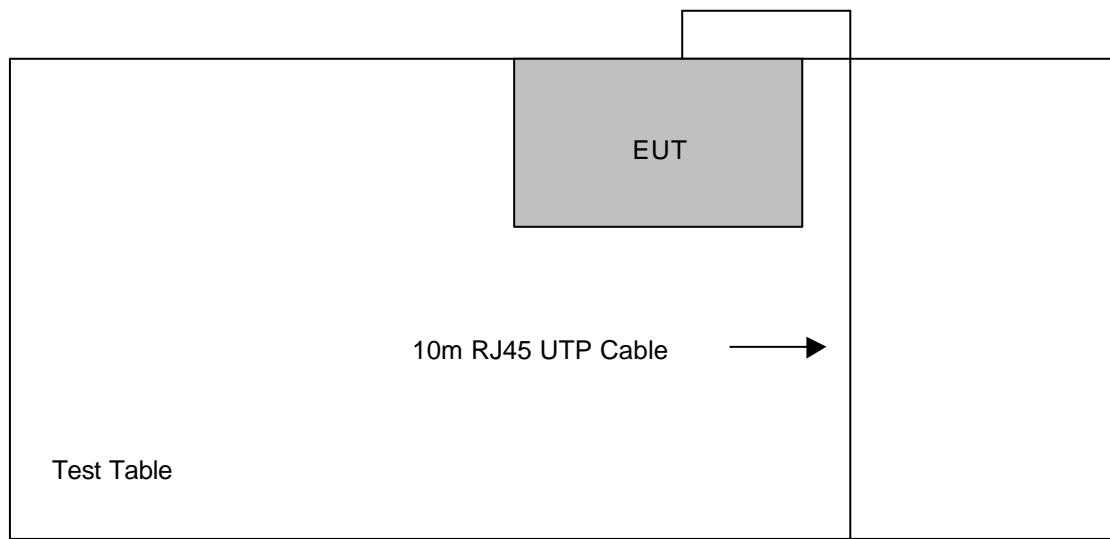
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	16484462992	E2K24CLNS

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

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

### 3.5 CONFIGURATION OF SYSTEM UNDER TEST





## 4 TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ 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
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Dec. 12, 2004
RF signal cable Woken	5D-FB	Cable-HYC01-01	Mar. 02, 2005
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Mar. 03, 2005
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Mar. 02, 2005
Software ADT	ADT_Cond_V3	NA	NA

**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. The test was performed in HwaYa Shielded Room 1.  
 3. The VCCI Site Registration No. is C-2040.



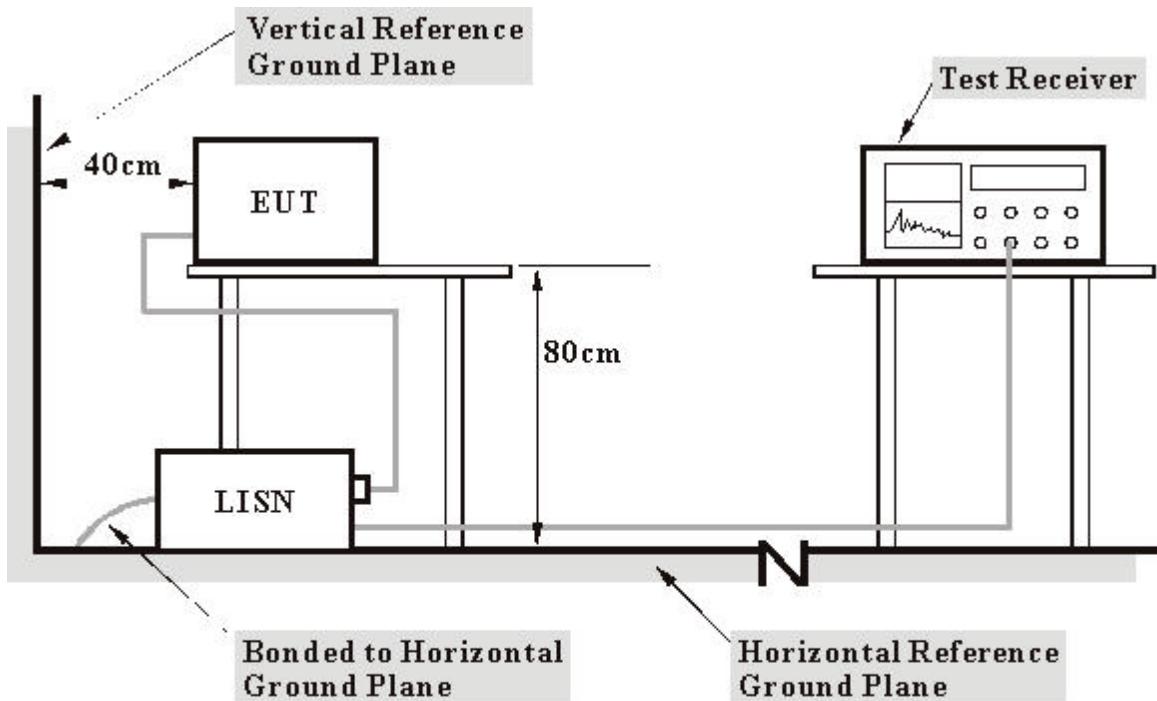
#### 4.1.3 TEST PROCEDURES

- 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 under Limit - 20dB was not recorded.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



**Note:**

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared another notebook system to act as a communication partner and placed it outside of testing area.
- c. The communication partner run a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency via an RJ45 cable.
- a. The communication partner sent data to EUT by command "PING".

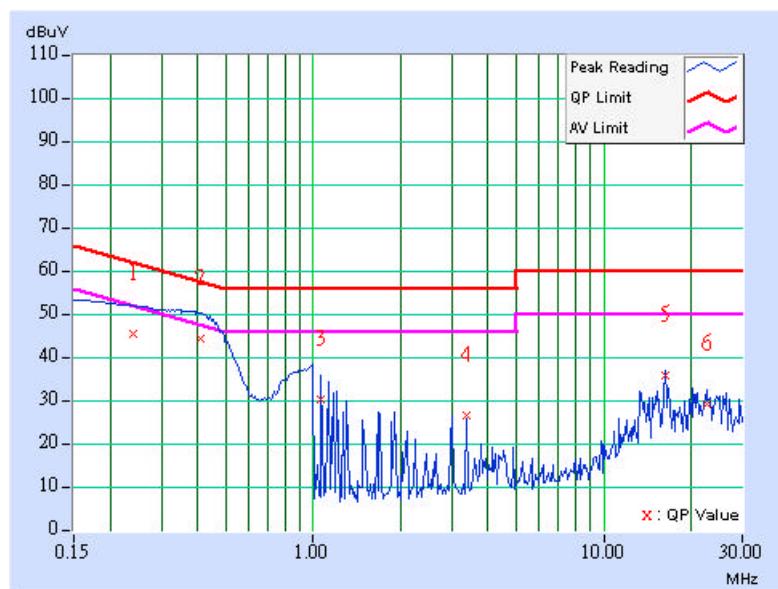
## 4.1.7 TEST RESULTS

<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	1	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>PHASE</b>	Line (L)
<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 64% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.240	0.12	44.50	-	44.62	-	62.10	52.10	-17.48	-
2	0.408	0.13	43.26	-	43.39	-	57.69	47.69	-14.31	-
3	1.066	0.15	29.45	-	29.60	-	56.00	46.00	-26.40	-
4	3.387	0.19	25.51	-	25.70	-	56.00	46.00	-30.30	-
5	16.230	0.84	35.00	-	35.84	-	60.00	50.00	-24.16	-
6	22.582	1.09	28.32	-	29.41	-	60.00	50.00	-30.59	-

**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.

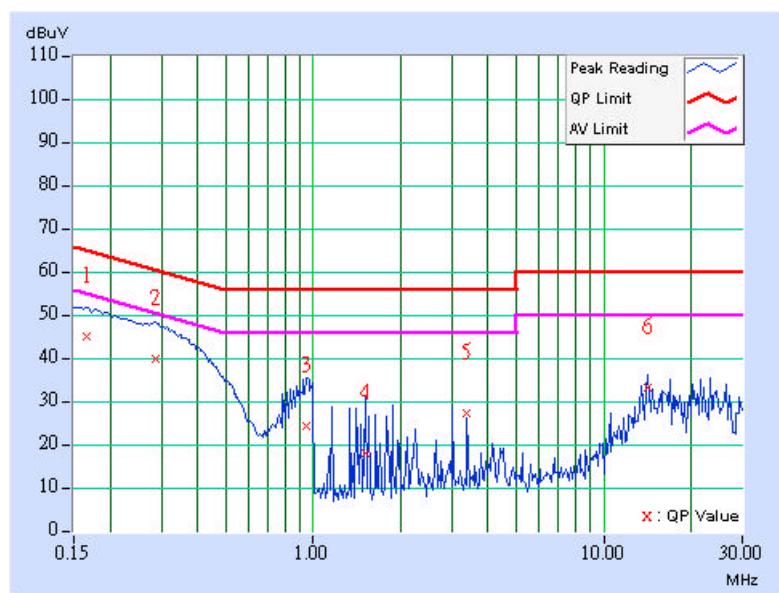


<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	1	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>PHASE</b>	Neutral (N)
<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 64% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	44.65	-	44.75	-	65.18	55.18	-20.42	-
2	0.287	0.11	39.53	-	39.64	-	60.62	50.62	-20.98	-
3	0.947	0.15	23.96	-	24.11	-	56.00	46.00	-31.89	-
4	1.509	0.16	17.56	-	17.72	-	56.00	46.00	-38.28	-
5	3.387	0.19	26.67	-	26.86	-	56.00	46.00	-29.14	-
6	14.148	0.58	32.68	-	33.26	-	60.00	50.00	-26.74	-

**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.

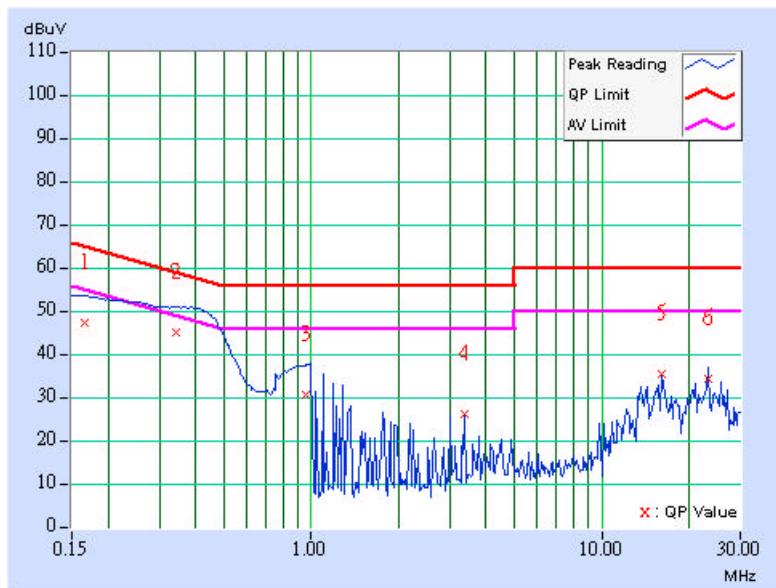


<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	6	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>PHASE</b>	Line (L)
<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 64% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

No	Freq. [MHz]	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.11	46.47	-	46.58	-	65.18	55.18	-18.60	-
2	0.341	0.12	44.01	-	44.13	-	59.17	49.17	-15.03	-
3	0.963	0.15	29.53	-	29.68	-	56.00	46.00	-26.32	-
4	3.383	0.19	25.32	-	25.51	-	56.00	46.00	-30.49	-
5	16.168	0.84	34.45	-	35.29	-	60.00	50.00	-24.71	-
6	23.129	1.11	33.25	-	34.36	-	60.00	50.00	-25.64	-

**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.

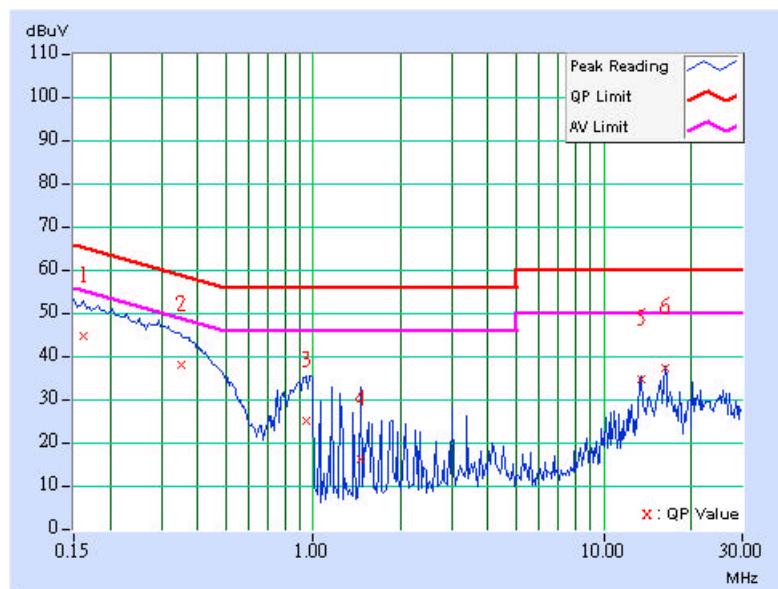


<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	6	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>PHASE</b>	Neutral (N)
<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 64% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	44.07	-	44.17	-	65.38	55.38	-21.20	-
2	0.349	0.11	37.33	-	37.44	-	58.98	48.98	-21.54	-
3	0.947	0.15	24.65	-	24.80	-	56.00	46.00	-31.20	-
4	1.449	0.15	15.53	-	15.68	-	56.00	46.00	-40.32	-
5	13.418	0.53	34.01	-	34.54	-	60.00	50.00	-25.46	-
6	16.230	0.66	36.90	-	37.56	-	60.00	50.00	-22.44	-

**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.

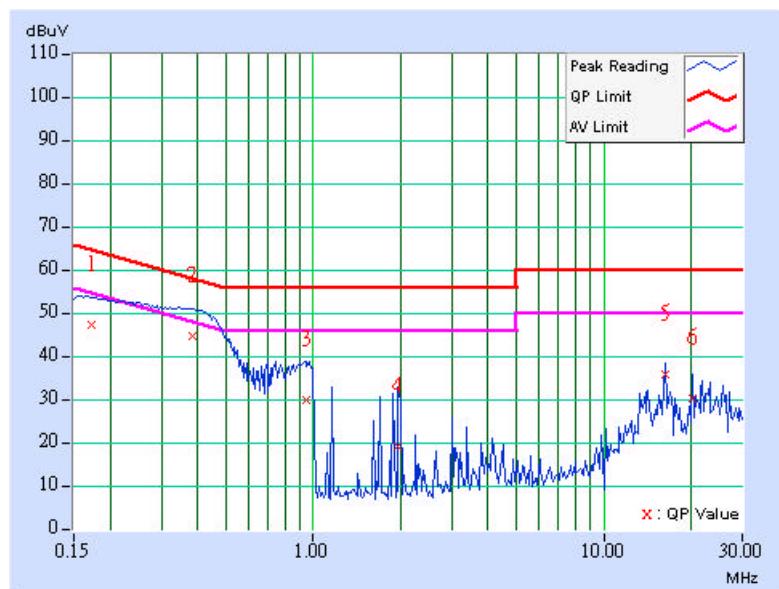


<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	11	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>PHASE</b>	Line (L)
<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 64% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.11	46.56	-	46.67	-	64.79	54.79	-18.12	-
2	<b>0.384</b>	<b>0.13</b>	<b>43.81</b>	-	<b>43.94</b>	-	<b>58.18</b>	<b>48.18</b>	<b>-14.25</b>	-
3	0.943	0.15	28.95	-	29.10	-	56.00	46.00	-26.90	-
4	1.965	0.16	18.17	-	18.33	-	56.00	46.00	-37.67	-
5	16.227	0.84	34.95	-	35.79	-	60.00	50.00	-24.21	-
6	20.262	1.03	29.52	-	30.55	-	60.00	50.00	-29.45	-

**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.

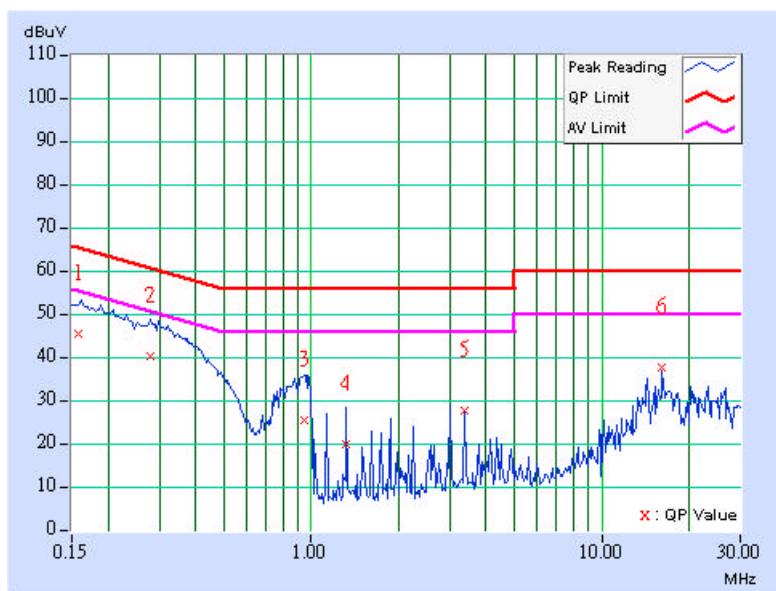


<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	11	<b>6dB BANDWIDTH</b>	9 kHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>PHASE</b>	Netural (N)
<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 64% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

No	Freq. Factor	Corr. [MHz]	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.
1	0.158	0.10	44.83	-	44.93	-	65.58	55.58	-20.65	-
2	0.279	0.11	39.70	-	39.81	-	60.85	50.85	-21.04	-
3	0.943	0.15	24.85	-	25.00	-	56.00	46.00	-31.00	-
4	1.324	0.15	19.49	-	19.64	-	56.00	46.00	-36.36	-
5	3.383	0.19	26.98	-	27.17	-	56.00	46.00	-28.83	-
6	16.168	0.66	37.21	-	37.87	-	60.00	50.00	-22.13	-

**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 (dB<sub>uV/m</sub>) = 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
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Jan. 13, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 15, 2004
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2005
Preamplifier Agilent	8449B	3008A01961	Jan. 22, 2005
Preamplifier Agilent	8447D	2944A10629	Jan. 14, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Mar. 04, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Mar. 04, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	NA

**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. The test was performed in HwaYa Chamber 1.  
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.  
 4. The IC Site Registration No. is IC4924-2.



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

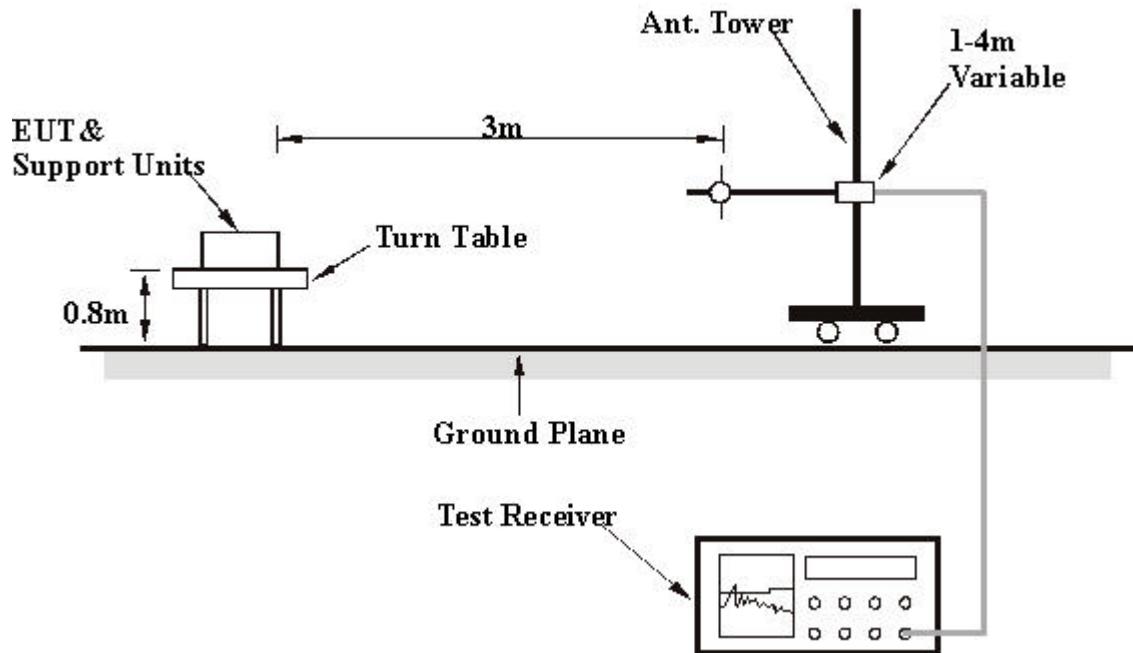
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP



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

#### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



## 4.2.7 TEST RESULTS

<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	11	<b>FREQUENCY RANGE</b>	Below 1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60Hz	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>ENVIRONMENTAL CONDITIONS</b>	27 deg. C, 52% RH, 991 hPa	<b>TESTED BY</b>	Rush Kao

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
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	249.66	36.46 QP	46.00	-9.54	1.50 H	208	23.35	13.11
2	300.20	34.21 QP	46.00	-11.79	1.25 H	214	19.79	14.41
3	399.34	36.69 QP	46.00	-9.31	1.00 H	274	19.98	16.71
4	500.42	41.56 QP	46.00	-4.44	1.75 H	346	22.98	18.58
5	700.64	34.84 QP	46.00	-11.16	1.00 H	70	12.82	22.03
6	751.18	36.01 QP	46.00	-9.99	1.00 H	88	12.77	23.25
7	900.86	37.36 QP	46.00	-8.64	1.50 H	316	12.54	24.82

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	11	<b>FREQUENCY RANGE</b>	Below 1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60Hz	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>ENVIRONMENTAL CONDITIONS</b>	27 deg. C, 52% RH, 991 hPa	<b>TESTED BY</b>	Rush Kao

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
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	47.49	34.77 QP	40.00	-5.23	1.25 V	73	19.76	15.01
2	109.70	37.68 QP	43.50	-5.82	1.25 V	157	25.83	11.86
3	249.66	37.40 QP	46.00	-8.60	1.75 V	121	24.29	13.11
4	300.20	38.37 QP	46.00	-7.63	1.00 V	157	23.96	14.41
5	399.34	39.57 QP	46.00	-6.43	1.25 V	289	22.85	16.71
6	500.42	42.13 QP	46.00	-3.87	1.00 V	256	23.55	18.58
7	599.56	31.14 QP	46.00	-14.86	1.75 V	112	10.32	20.82
8	700.64	31.94 QP	46.00	-14.06	1.25 V	301	9.91	22.03
9	751.18	34.86 QP	46.00	-11.14	1.50 V	232	11.62	23.25

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

## 4.2.8 TEST RESULTS (A)

<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	1	<b>FREQUENCY RANGE</b>	1~25 GHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak (PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 60% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
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	51.28 PK	74.00	-22.72	1.00 H	224	22.61	28.67
1	1608.00	44.29 AV	54.00	-9.71	1.00 H	224	15.62	28.67
2	2390.00	45.06 PK	74.00	-28.94	1.07 H	360	13.26	31.80
2	2390.00	38.37 AV	54.00	-15.63	1.07 H	360	6.57	31.80
3	*2412.00	102.07 PK			1.07 H	360	70.20	31.87
3	*2412.00	95.38 AV			1.07 H	360	63.51	31.87
4	3216.00	52.38 PK	74.00	-21.62	1.00 H	295	17.40	34.98
4	3216.00	47.17 AV	54.00	-6.83	1.00 H	295	12.19	34.98
5	4824.00	56.15 PK	74.00	-17.85	1.00 H	283	18.04	38.11
5	4824.00	52.49 AV	54.00	-1.51	1.00 H	283	14.38	38.11

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
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	49.30 PK	74.00	-24.70	1.34 V	17	20.63	28.67
1	1608.00	40.81 AV	54.00	-13.19	1.34 V	17	12.14	28.67
2	2390.00	57.80 PK	74.00	-16.20	1.15 V	210	26.00	31.80
2	2390.00	50.73 AV	54.00	-3.27	1.15 V	210	18.93	31.80
3	*2412.00	114.81 PK			1.15 V	210	82.94	31.87
3	*2412.00	107.74 AV			1.15 V	210	75.87	31.87
4	3216.00	50.66 PK	74.00	-23.34	1.00 V	240	15.68	34.98
4	3216.00	42.89 AV	54.00	-11.11	1.00 V	240	7.91	34.98
5	4824.00	53.76 PK	74.00	-20.24	1.08 V	360	15.65	38.11
5	4824.00	51.26 AV	54.00	-2.74	1.08 V	360	13.15	38.11

- 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.



<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	6	<b>FREQUENCY RANGE</b>	1~25 GHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 60% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

**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	44.99 PK	74.00	-29.01	1.29 H	360	16.23	28.76
1	1624.00	39.56 AV	54.00	-14.44	1.29 H	360	10.80	28.76
2	*2437.00	104.16 PK			1.17 H	114	72.21	31.95
2	*2437.00	95.18 AV			1.17 H	114	63.23	31.95
3	3248.00	50.82 PK	74.00	-23.18	1.03 H	221	15.82	35.00
3	3248.00	46.01 AV	54.00	-7.99	1.03 H	221	11.01	35.00
4	4874.00	52.17 PK	74.00	-21.83	1.17 H	114	13.89	38.28
4	4874.00	43.74 AV	54.00	-10.26	1.17 H	114	5.46	38.28

**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	48.42 PK	74.00	-25.58	1.00 V	360	19.66	28.76
1	1624.00	42.59 AV	54.00	-11.41	1.00 V	360	13.83	28.76
2	*2437.00	114.23 PK			1.05 V	48	82.28	31.95
2	*2437.00	107.43 AV			1.05 V	48	75.48	31.95
3	3248.00	53.27 PK	74.00	-20.73	1.03 V	112	18.27	35.00
3	3248.00	48.30 AV	54.00	-5.70	1.03 V	112	13.30	35.00
4	4874.00	56.18 PK	74.00	-17.82	1.18 V	112	17.90	38.28
4	4874.00	52.25 AV	54.00	-1.75	1.18 V	112	13.97	38.28

**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.



<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	11	<b>FREQUENCY RANGE</b>	1~25 GHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 60% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

**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	44.93 PK	74.00	-29.07	1.32 H	360	16.08	28.85
1	1641.00	39.27 AV	54.00	-14.73	1.32 H	360	10.42	28.85
2	*2462.00	103.28 PK			1.00 H	48	71.26	32.02
2	*2462.00	96.49 AV			1.00 H	48	64.47	32.02
3	2483.50	48.35 PK	74.00	-25.65	1.00 H	48	16.26	32.09
3	2483.50	41.56 AV	54.00	-12.44	1.00 H	48	9.47	32.09
4	3282.00	49.76 PK	74.00	-24.24	1.13 H	224	14.74	35.02
4	3282.00	45.05 AV	54.00	-8.95	1.13 H	224	10.03	35.02
5	4924.00	52.63 PK	74.00	-21.37	1.00 H	332	14.14	38.49
5	4924.00	41.91 AV	54.00	-12.09	1.00 H	332	3.42	38.49

**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	48.57 PK	74.00	-25.43	1.00 V	24	19.72	28.85
1	1641.00	44.21 AV	54.00	-9.79	1.00 V	24	15.36	28.85
2	*2462.00	114.14 PK			1.05 V	11	82.12	32.02
2	*2462.00	107.25 AV			1.05 V	11	75.23	32.02
3	2483.50	59.21 PK	74.00	-14.79	1.05 V	11	27.12	32.09
3	2483.50	52.32 AV	54.00	-1.68	1.05 V	11	20.23	32.09
4	3282.00	50.98 PK	74.00	-23.02	1.17 V	246	15.96	35.02
4	3282.00	44.41 AV	54.00	-9.59	1.17 V	246	9.39	35.02
5	4924.00	56.66 PK	74.00	-17.34	1.09 V	114	18.17	38.49
5	4924.00	52.40 AV	54.00	-1.60	1.09 V	114	13.91	38.49

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ \* ” : Fundamental frequency.

## 4.2.9 TEST RESULTS (B)

<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	1	<b>FREQUENCY RANGE</b>	1~25 GHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 60% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

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	46.20 PK	74.00	-27.80	1.00 H	66	17.53	28.67
1	1608.00	39.61 AV	54.00	-14.39	1.00 H	66	10.94	28.67
2	2390.00	45.14 PK	74.00	-28.86	1.04 H	330	13.34	31.80
2	2390.00	39.34 AV	54.00	-14.66	1.04 H	330	7.54	31.80
3	*2412.00	97.61 PK			1.04 H	330	65.74	31.87
3	*2412.00	91.81 AV			1.04 H	330	59.94	31.87
4	3216.00	50.00 PK	74.00	-24.00	1.06 H	246	15.02	34.98
4	3216.00	42.73 AV	54.00	-11.27	1.06 H	246	7.75	34.98
5	4824.00	49.55 PK	74.00	-24.45	1.12 H	224	11.44	38.11
5	4824.00	39.90 AV	54.00	-14.10	1.12 H	224	1.79	38.11

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	50.10 PK	74.00	-23.90	1.00 V	347	21.43	28.67
1	1608.00	44.71 AV	54.00	-9.29	1.00 V	347	16.04	28.67
2	2390.00	57.19 PK	74.00	-16.81	1.09 V	22	25.39	31.80
2	2390.00	51.82 AV	54.00	-2.18	1.09 V	22	20.02	31.80
3	*2412.00	109.66 PK			1.09 V	22	77.79	31.87
3	*2412.00	103.31 AV			1.09 V	22	71.44	31.87
4	3216.00	50.07 PK	74.00	-23.93	1.00 V	40	15.09	34.98
4	3216.00	42.63 AV	54.00	-11.37	1.00 V	40	7.65	34.98
5	4824.00	58.70 PK	74.00	-15.30	1.16 V	355	20.59	38.11
5	4824.00	52.25 AV	54.00	-1.75	1.16 V	355	14.14	38.11

- 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.

<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	6	<b>FREQUENCY RANGE</b>	1~25 GHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 60% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

**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	45.91 PK	74.00	-28.09	1.11 H	60	17.15	28.76
1	1624.00	38.70 AV	54.00	-15.30	1.11 H	60	9.94	28.76
2	*2437.00	98.64 PK			1.09 H	132	66.69	31.95
2	*2437.00	92.57 AV			1.09 H	132	60.62	31.95
3	3248.00	52.72 PK	74.00	-21.28	1.00 H	298	17.72	35.00
3	3248.00	47.23 AV	54.00	-6.77	1.00 H	298	12.23	35.00
4	4874.00	50.15 PK	74.00	-23.85	1.00 H	360	11.87	38.28
4	4874.00	43.13 AV	54.00	-10.87	1.00 H	360	4.85	38.28

**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	47.47 PK	74.00	-26.53	1.00 V	251	18.71	28.76
1	1624.00	43.37 AV	54.00	-10.63	1.00 V	251	14.61	28.76
2	*2437.00	111.46 PK			1.09 V	360	79.51	31.95
2	*2437.00	104.73 AV			1.09 V	360	72.78	31.95
3	3248.00	52.06 PK	74.00	-21.94	1.09 V	253	17.06	35.00
3	3248.00	46.61 AV	54.00	-7.39	1.09 V	253	11.61	35.00
4	4874.00	60.04 PK	74.00	-13.96	1.00 V	221	21.76	38.28
4	4874.00	52.18 AV	54.00	-1.82	1.00 V	221	13.90	38.28

**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.



<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>CHANNEL</b>	11	<b>FREQUENCY RANGE</b>	1~25 GHz
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 60% RH, 991 hPa	<b>TESTED BY</b>	Leo Hung

**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	46.13 PK	74.00	-27.87	1.16 H	43	17.28	28.85
1	1641.00	40.89 AV	54.00	-13.11	1.16 H	43	12.04	28.85
2	*2462.00	97.14 PK			1.16 H	307	65.12	32.02
2	*2462.00	91.45 AV			1.16 H	307	59.43	32.02
3	2483.50	46.09 PK	74.00	-27.91	1.16 H	307	14.00	32.09
3	2483.50	40.40 AV	54.00	-13.60	1.16 H	307	8.31	32.09
4	3282.00	49.12 PK	74.00	-24.88	1.15 H	245	14.10	35.02
4	3282.00	45.65 AV	54.00	-8.35	1.15 H	245	10.63	35.02
5	4924.00	49.84 PK	74.00	-24.16	1.11 H	296	11.35	38.49
5	4924.00	43.42 AV	54.00	-10.58	1.11 H	296	4.93	38.49

**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	49.92 PK	74.00	-24.08	1.00 V	23	21.07	28.85
1	1641.00	46.30 AV	54.00	-7.70	1.00 V	23	17.45	28.85
2	*2462.00	110.25 PK			1.07 V	360	78.23	32.02
2	*2462.00	103.69 AV			1.07 V	360	71.67	32.02
3	2483.50	59.20 PK	74.00	-14.80	1.07 V	360	27.11	32.09
3	2483.50	52.64 AV	54.00	-1.36	1.07 V	360	20.55	32.09
4	3282.00	51.23 PK	74.00	-22.77	1.15 V	245	16.21	35.02
4	3282.00	44.76 AV	54.00	-9.24	1.15 V	245	9.74	35.02
5	4924.00	60.39 PK	74.00	-13.61	1.00 V	3	21.90	38.49
5	<b>4924.00</b>	<b>52.88 AV</b>	<b>54.00</b>	<b>-1.12</b>	<b>1.00 V</b>	<b>3</b>	<b>14.39</b>	<b>38.49</b>

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* ” : Fundamental frequency.



### 4.3 6dB BANDWIDTH MEASUREMENT

#### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

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



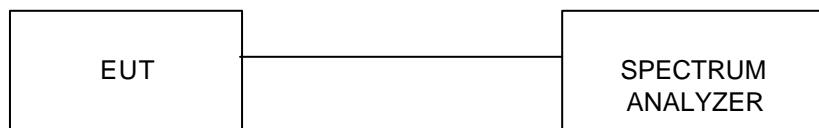
#### 4.3.3 TEST PROCEDURE

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

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.3.5 TEST SETUP



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

#### 4.3.6 EUT OPERATING CONDITIONS

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

FCC ID: Q87-HGA5T-2

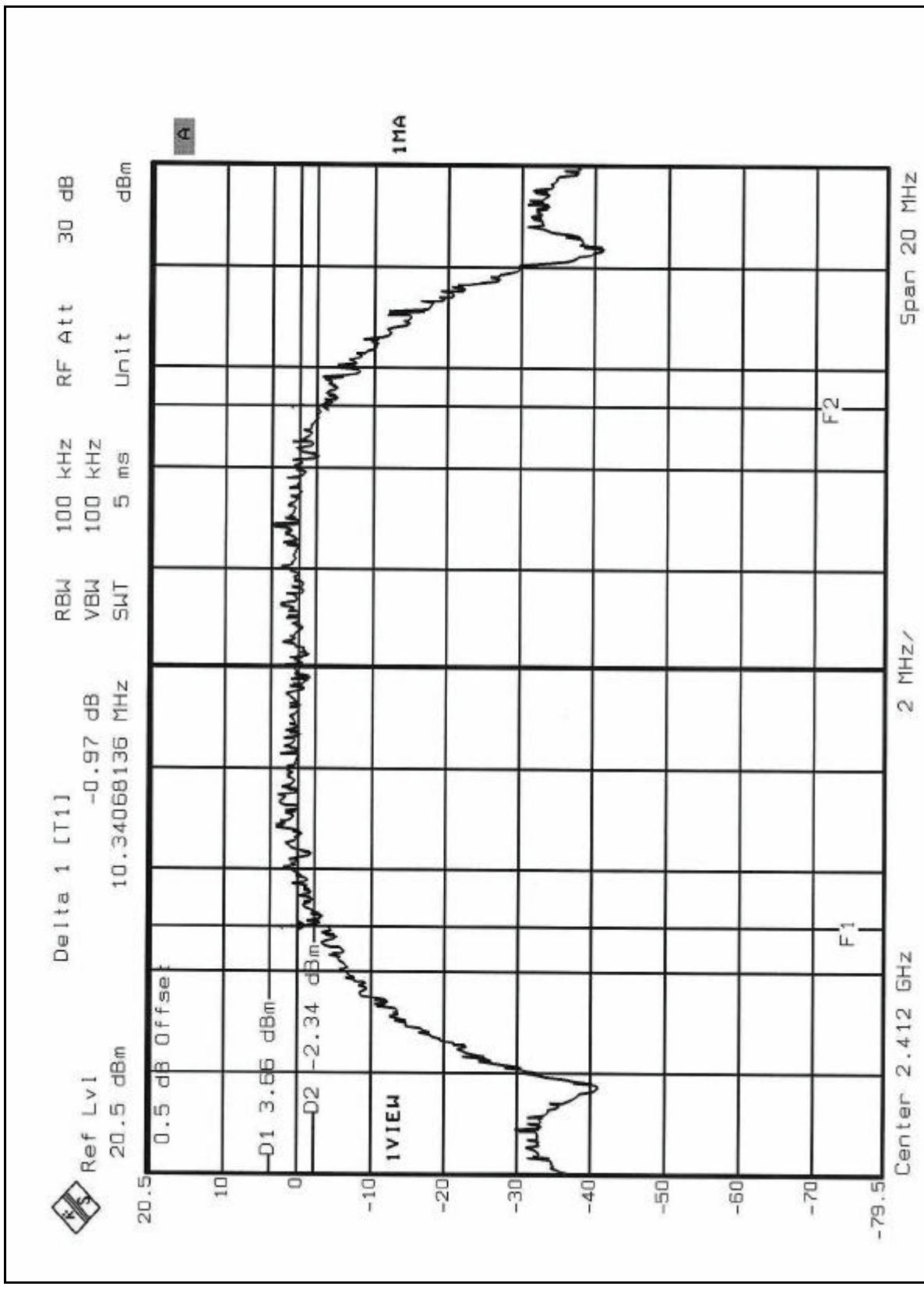


#### 4.3.7 TEST RESULTS (A)

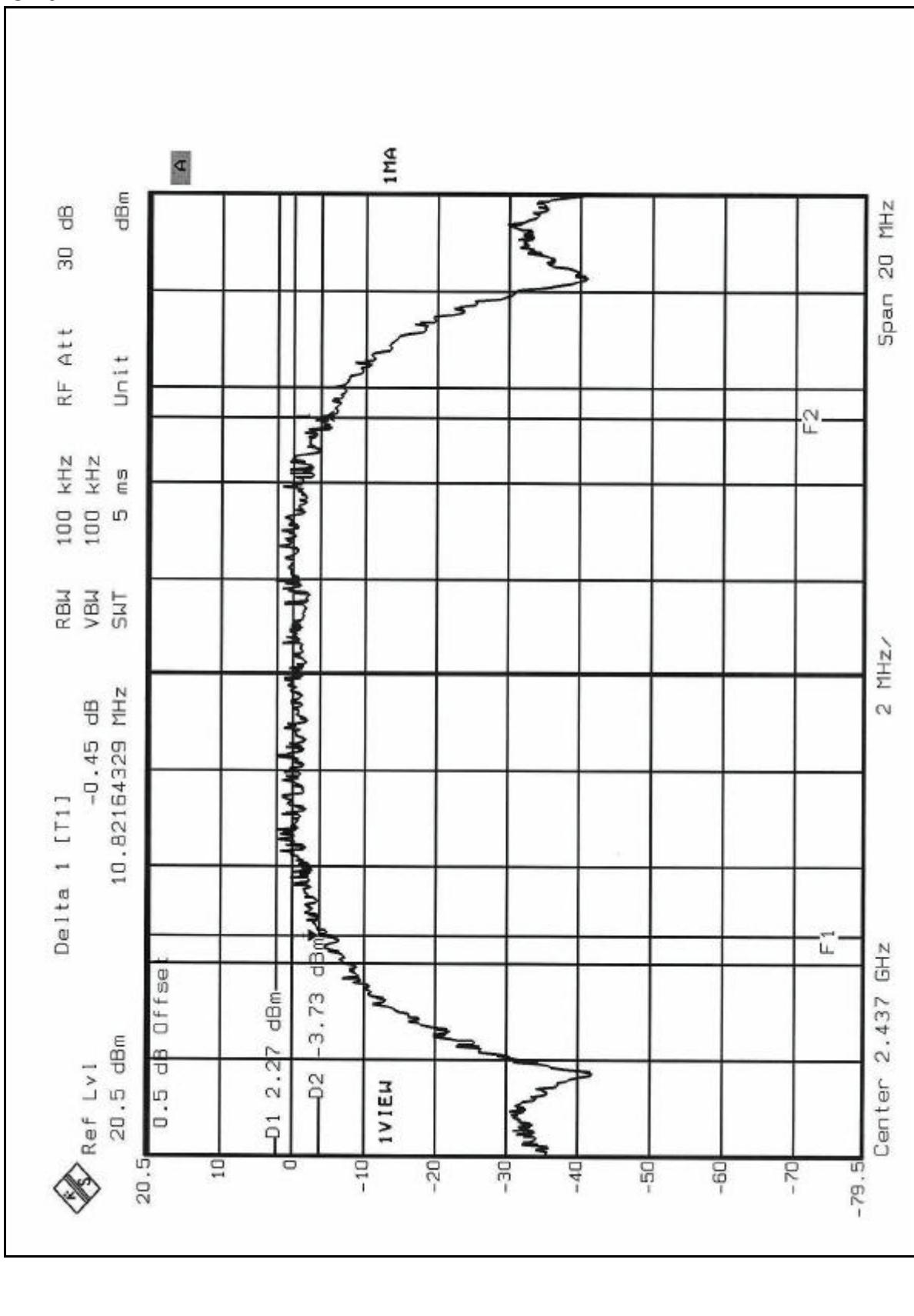
<b>EUT</b>	Wireless-G Access Point	<b>MODEL</b>	WAP54G v2
<b>INPUT POWER (SYSTEM)</b>	120 Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	23 deg. C, 67% RH, 991 hPa
<b>TESTED BY</b>	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.34	0.5	PASS
6	2437	10.82	0.5	PASS
11	2462	10.54	0.5	PASS

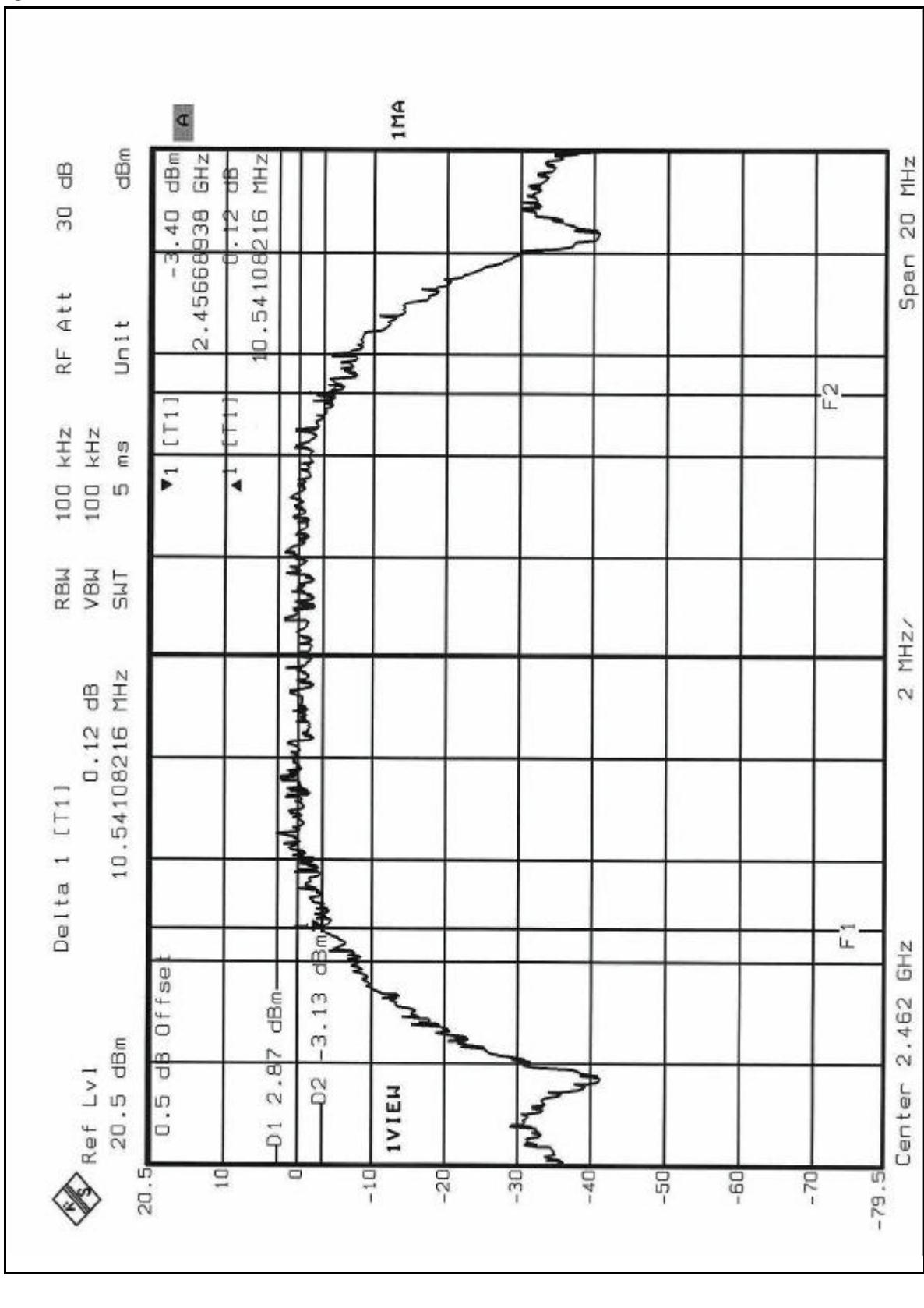
CH1



CH6



CH11



FCC ID: Q87-HGA5T-2

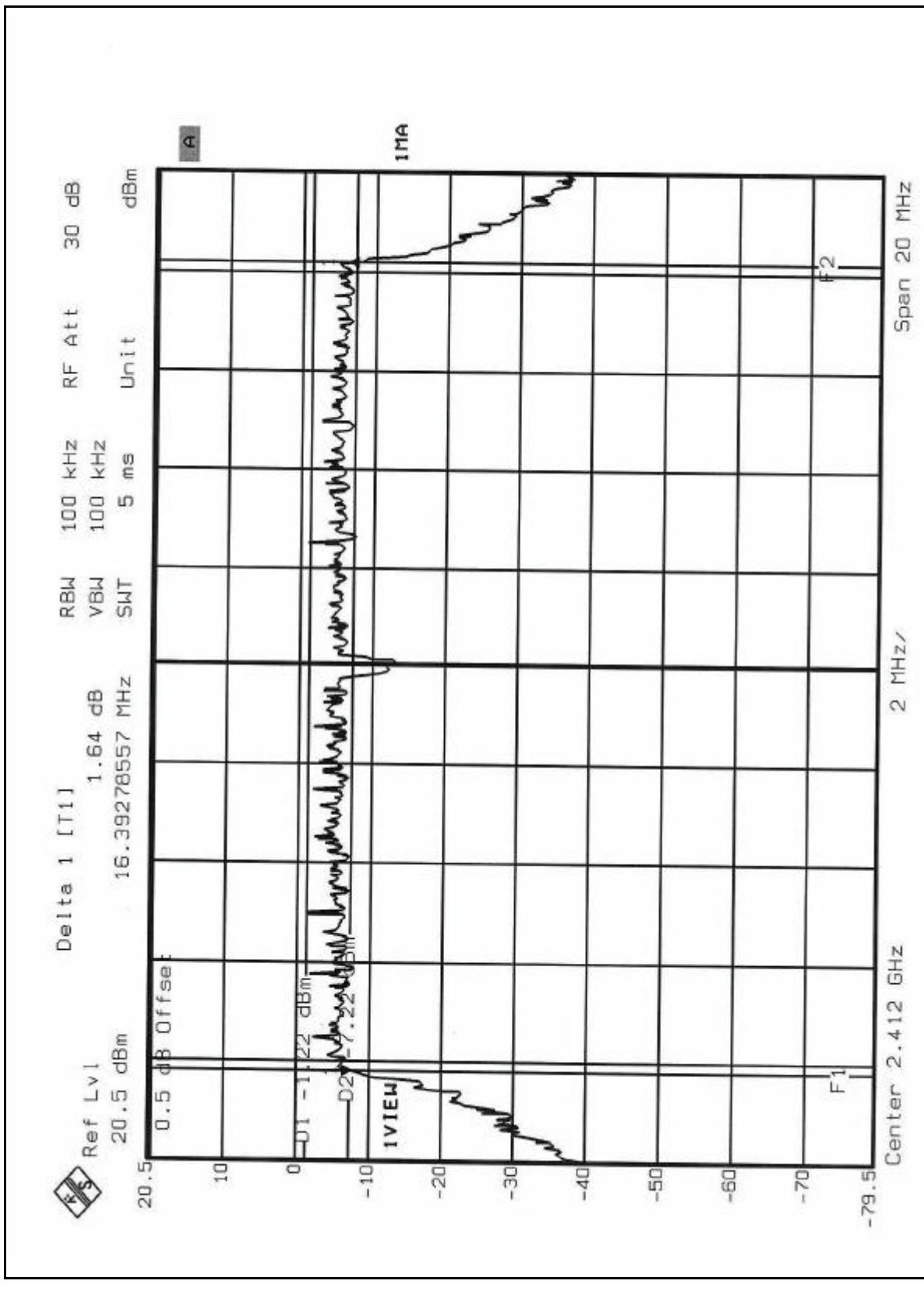


#### 4.3.8 TEST RESULTS (B)

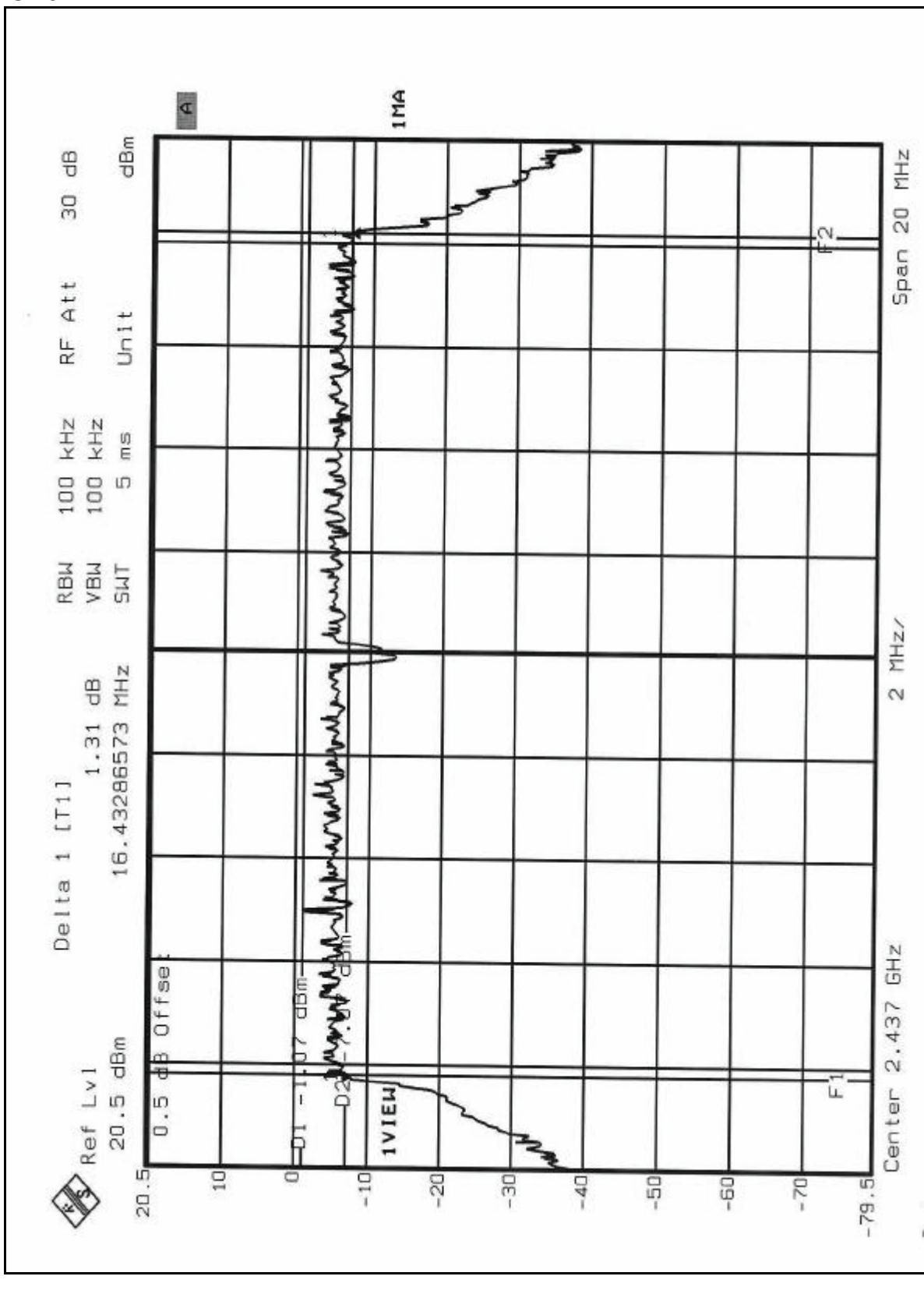
EUT	Wireless-G Access Point	MODEL	WAP54G v2
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	23 deg. C, 67% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.39	0.5	PASS
6	2437	16.43	0.5	PASS
11	2462	16.35	0.5	PASS

CH1



CH6



CH11

