

FCC TEST REPORT

REPORT NO.: RF931118L02

MODEL NO.: WAP54GP

RECEIVED: Nov. 24, 2004

TESTED: Nov. 24, 2004 ~ Apr. 28, 2005

ISSUED: Apr. 29, 2005

APPLICANT: Cisco-Linksys LLC

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ISSUED BY: Advance Data Technology Corporation

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ILAC MRA



No. 2177-01

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1. CERTIFICATION

PRODUCT: Wireless-G Access Point with POE
BRAND NAME: Linksys
MODEL NO.: WAP54GP
TEST SAMPLE: ENGINEERING SAMPLE
TESTED: Nov. 24, 2004 ~ Apr. 28, 2005
APPLICANT: Cisco-Linksys LLC
STANDARDS: FCC Part 15, Subpart C (Section 15.247),
ANSI C63.4-2003

The above equipment have 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 : Candice Chen , **DATE:** Apr. 29, 2005
(Candice Chen)

TECHNICAL
ACCEPTANCE : Gary Chang , **DATE:** Apr. 29, 2005
Responsible for RF (Gary Chang)

APPROVED BY : Cody Chang , **DATE:** Apr. 29, 2005
(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 -9.94dB at 0.248MHz
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(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -1.02dB at 4874.00MHz
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB 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	9kHz~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

EUT	Wireless-G Access Point with POE
MODEL NO.	WAP54GP
POWER SUPPLY	48Vdc from POE 12Vdc from AC adapter
MODULATION TYPE	CCK, QPSK, BPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	28.184mW
ANTENNA TYPE	Please refer to the note 2 as below
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT was tested with the following adapter and POE (Power over Ethernet):

Adapter:

BRAND:	LINKSYS
MODEL:	411210003CT
INPUT:	120Vac, 60Hz, 20W
OUTPUT:	12Vdc, 1000mA
POWER LINE:	DC 1.8m non-shielded cable without core

POE :

BRAND:	BH
MODEL :	SA06L48-V
INPUT :	100-240Vac, 50-60Hz, 0.6A
OUTPUT :	48Vdc, 0.4A
POWER LINE:	AC 1.8m non-shielded cable without core

2. There are 4 antenna combinations provided to this EUT. The information about those antennas as below table:

Item	Ant. Type	Ant. Gain
1	Dipole antenna	3dBi
2	Dipole antenna	5dBi
3	Dipole antenna	7dBi
4	Dipole antenna	7dBi (with cradle)

3. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.
4. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
5. 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.

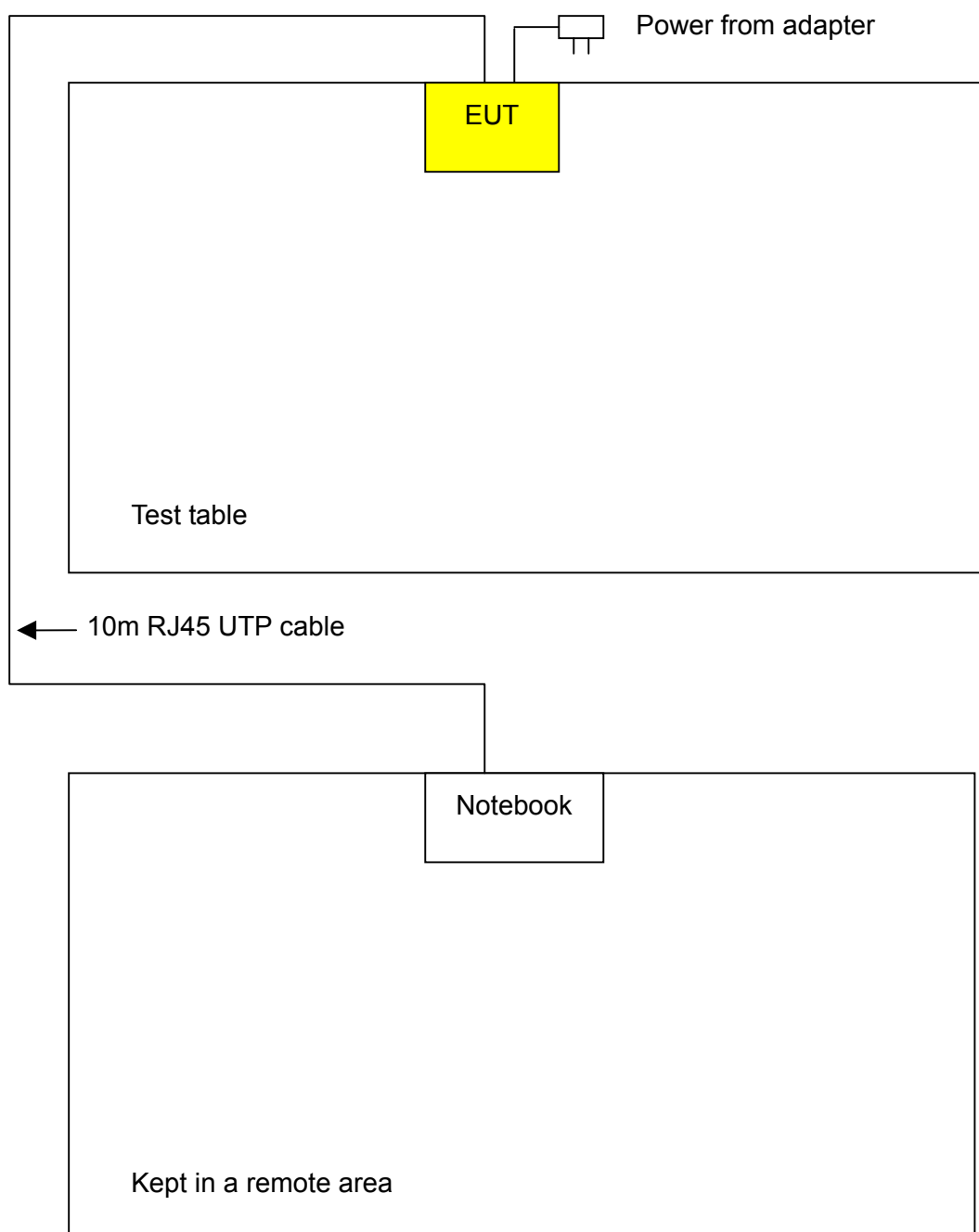
3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

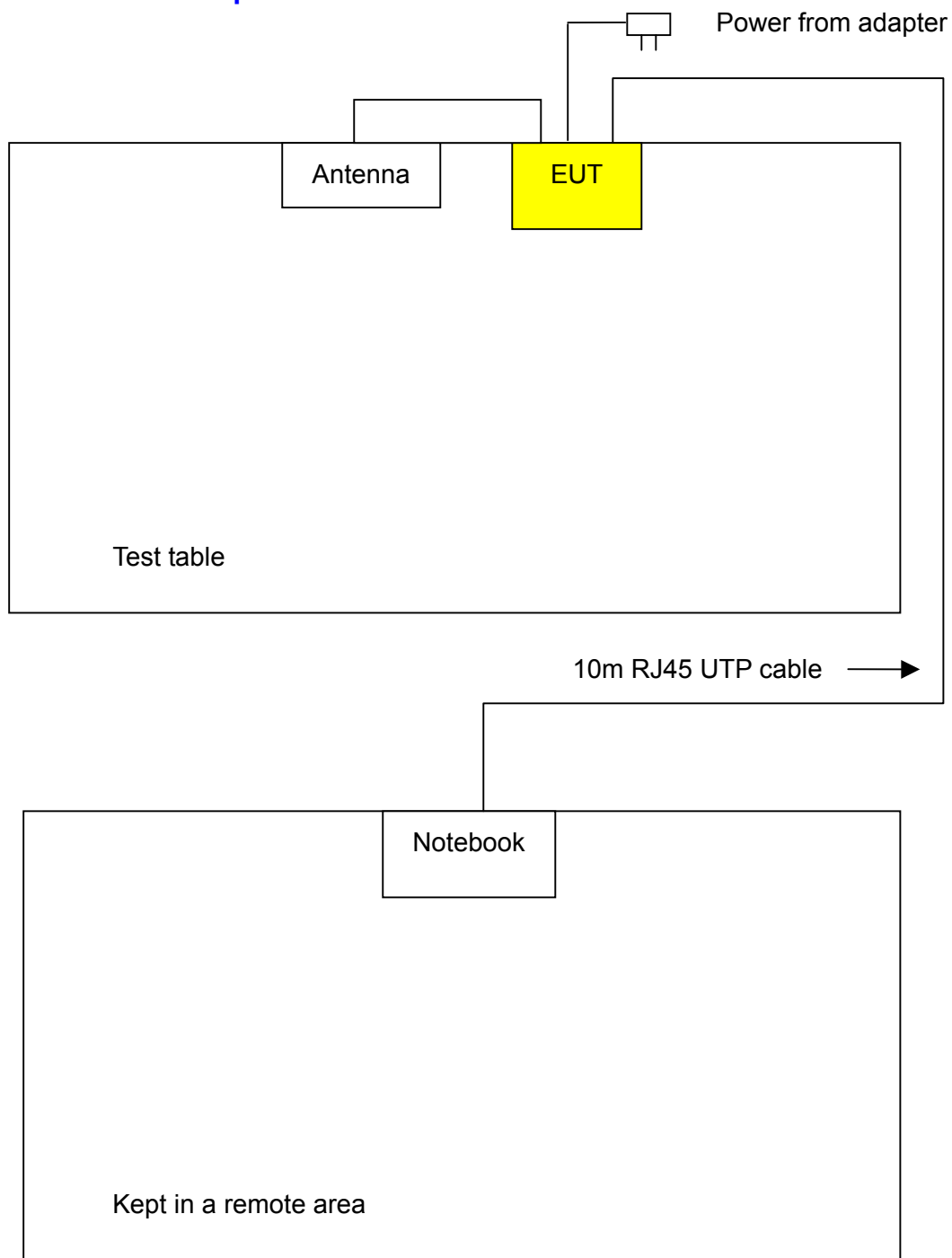
Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

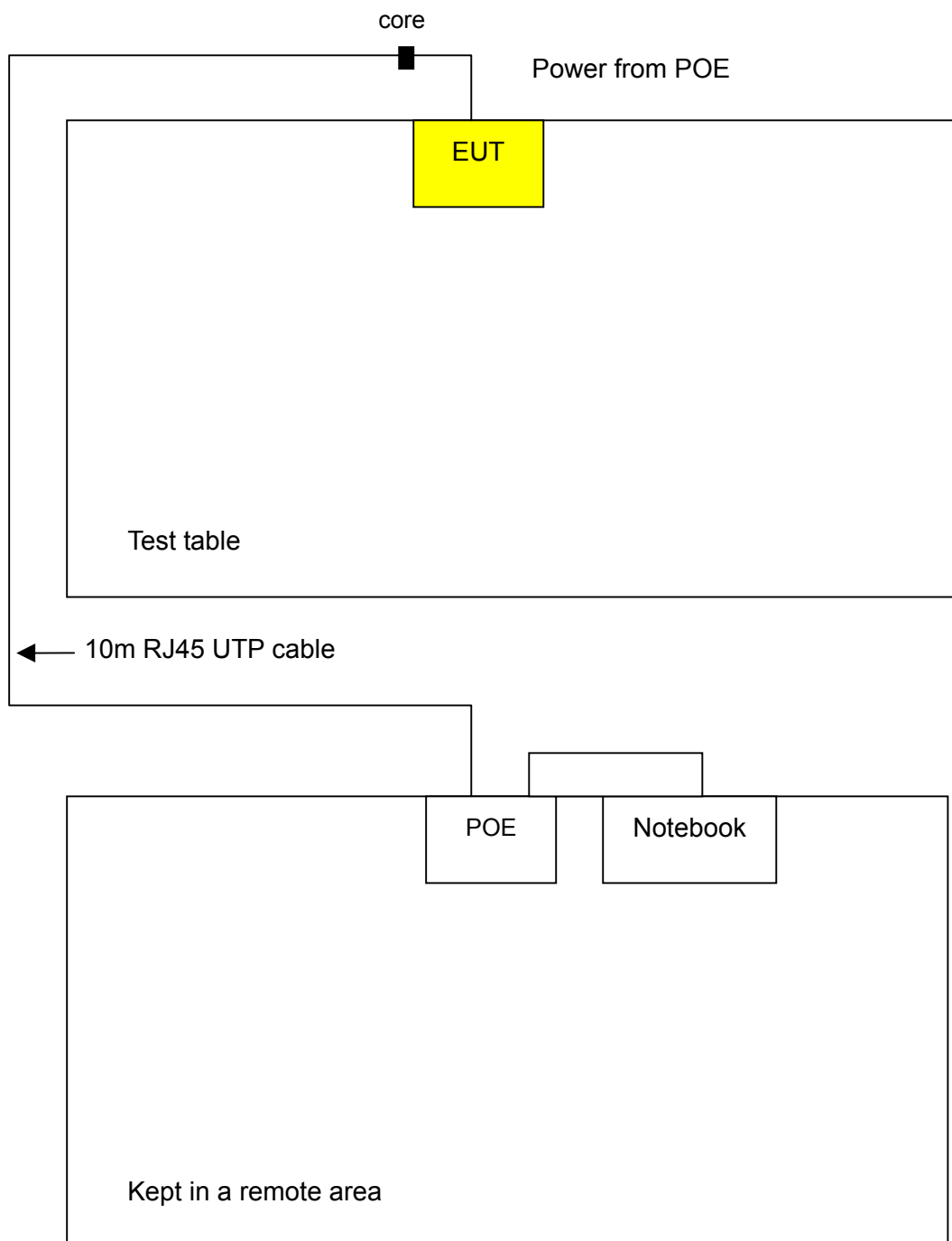
Test Mode A~ C with Adapter:



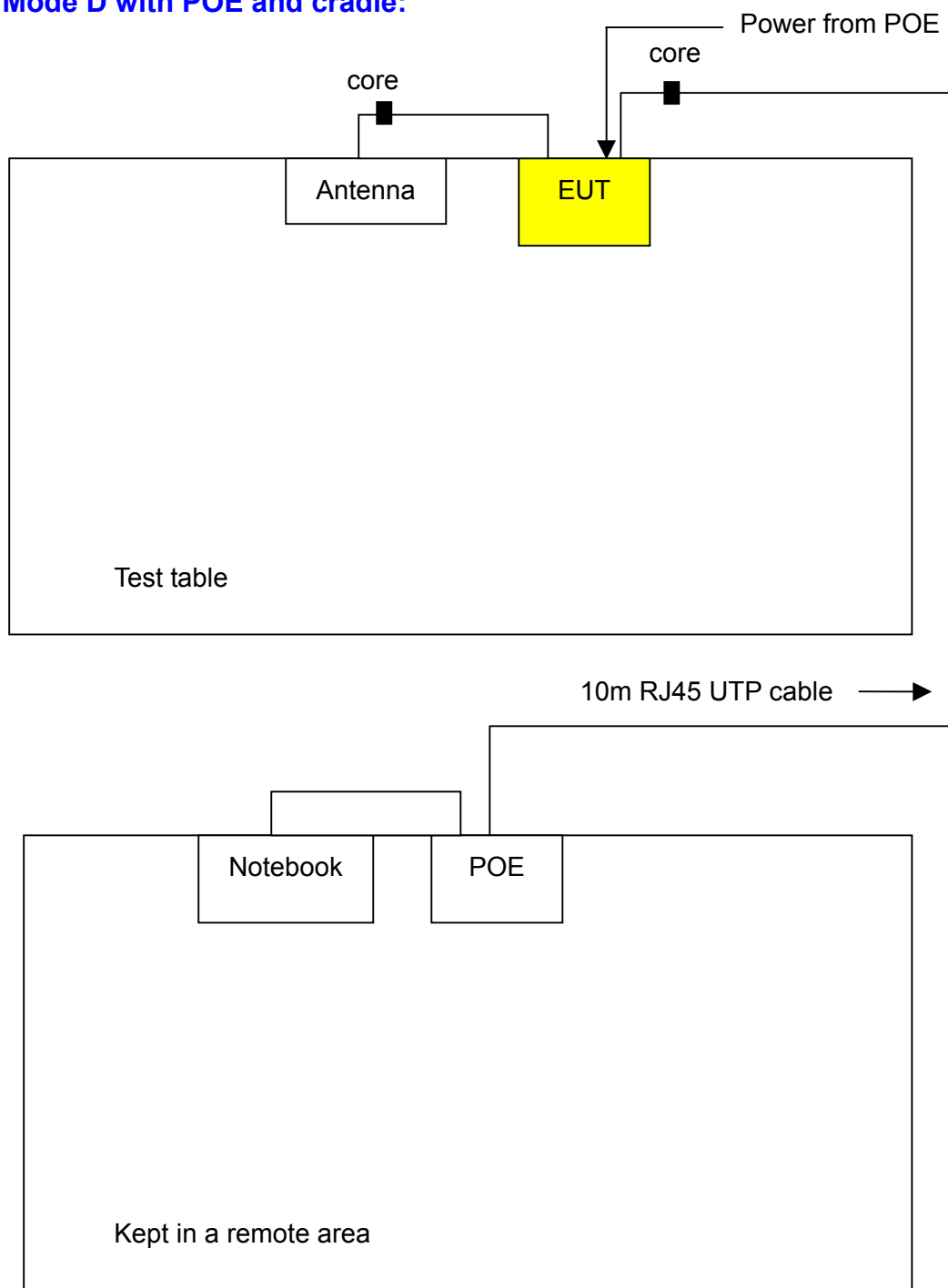
Test Mode D with Adapter and cradle:



Test Mode A~ C with POE:



Test Mode D with POE and cradle:



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
A	Note 1	x	Note 2	Note 3	3dBi antenna
B	Note 1	x	Note 2	Note 3	5dBi antenna
C	Note 1	x	Note 2	Note 3	7dBi antenna
D	Note 1	x	Note 2	Note 3	7dBi antenna with cradle

Where PLC: Power Line Conducted Emission

RE<1G RE: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

Note 1: Pre-scan shown antenna has no effect for PLC test and only worst case recorded in the report.

Note 2: Pre-scan shown Adapter and POE has no effect for radiated emission about 1GHz and only worst case recorded in the report.

Note 3: Conducted RF measurement in independent of antennas and POE.

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	Power by
C	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Adapter
C	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	POE

Radiated Emission Test (Below 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	Power by
A	802.11g	1 to 11	11	OFDM	BPSK	6	Adapter
B	802.11g	1 to 11	11	OFDM	BPSK	6	Adapter
C	802.11g	1 to 11	11	OFDM	BPSK	6	Adapter
D	802.11g	1 to 11	11	OFDM	BPSK	6	Adapter
A	802.11g	1 to 11	11	OFDM	BPSK	6	POE
B	802.11g	1 to 11	11	OFDM	BPSK	6	POE
C	802.11g	1 to 11	11	OFDM	BPSK	6	POE
D	802.11g	1 to 11	11	OFDM	BPSK	6	POE



Radiated Emission Test (Above 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	Power by
A	802.11b	1 to 11	1, 6, 11	DSSS	CCK	11	Adapter
B	802.11b	1 to 11	1, 6, 11	DSSS	CCK	11	Adapter
C	802.11b	1 to 11	1, 6, 11	DSSS	CCK	11	Adapter
D	802.11b	1 to 11	1, 6, 11	DSSS	CCK	11	Adapter
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Adapter
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Adapter
C	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Adapter
D	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Adapter

Bandedge Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 11	DSSS	CCK	11
802.11g	1 to 11	1, 11	OFDM	BPSK	6

Antenna Port Conducted Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	CCK	11
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Wireless-G Access Point with POE. 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	24729091408	FCC DoC Approved

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

NOTE: 1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 act as a communication partner to transfer data.

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
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 16, 2005
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 09, 2006
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Feb. 15, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 15, 2006
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.



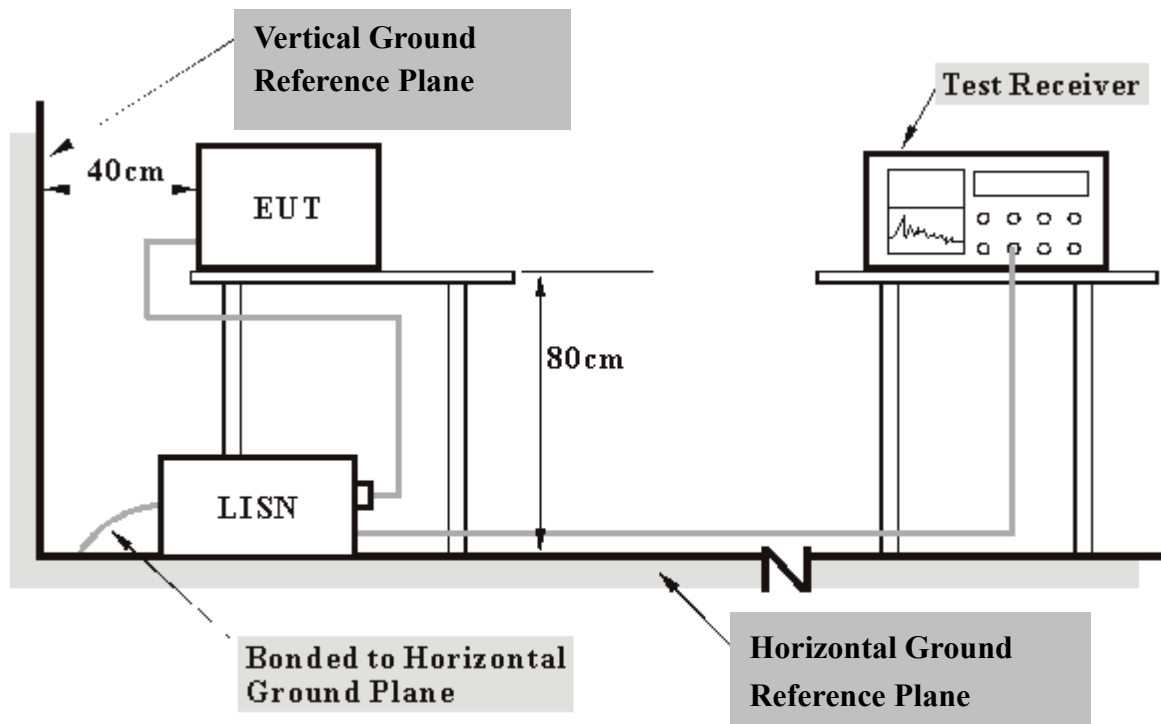
4.1.3 TEST PROCEDURES

- 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

- Connected the EUT to a notebook system via RJ45 cable and placed on a testing table.
- The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- The notebook system sent "H" messages to its screen.
- The notebook system sent "H" messages to modem.
- The notebook system sent "H" messages to printer, and the printer printed them on paper.
- Steps c ~ e were repeated.

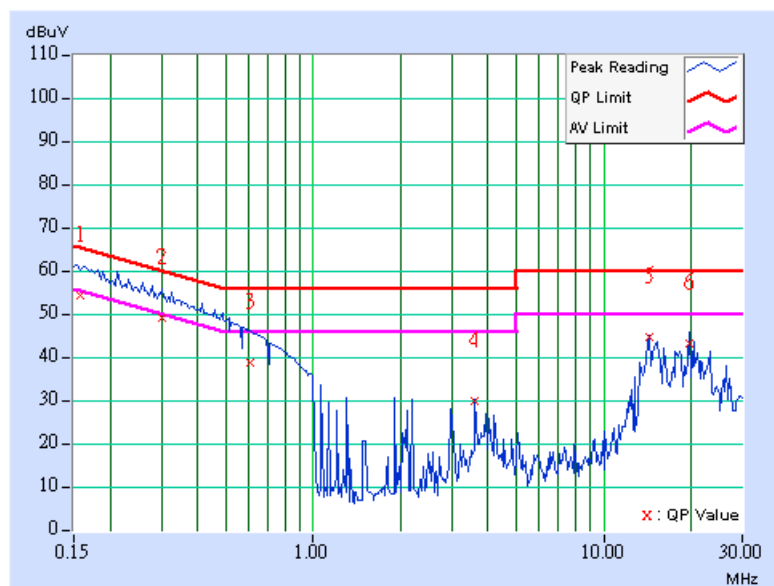
4.1.7 TEST RESULTS

Conducted Worst-Case Data with Adapter

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 1
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 24%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Leo Hung		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB (uV)]	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.11	53.47	-	53.58	-	65.58	55.58	-12.00	-
2	0.302	0.12	48.32	-	48.44	-	60.18	50.18	-11.73	-
3	0.603	0.13	38.03	-	38.16	-	56.00	46.00	-17.84	-
4	3.613	0.20	29.16	-	29.36	-	56.00	46.00	-26.64	-
5	14.336	0.72	43.95	-	44.67	-	60.00	50.00	-15.33	-
6	19.707	1.01	42.35	-	43.36	-	60.00	50.00	-16.64	-

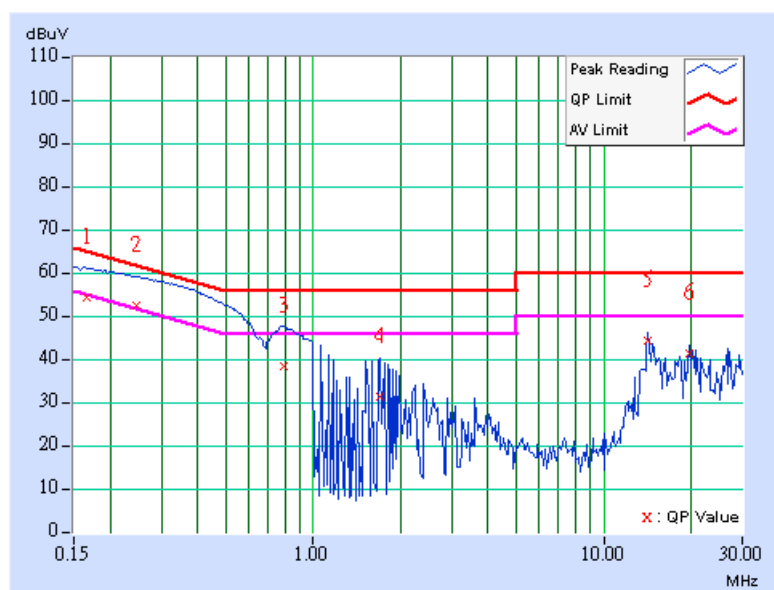
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 2
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	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	53.77	-	53.87	-	65.18	55.18	-11.30	-
2	0.248	0.11	51.78	21.53	51.89	21.64	61.84	51.84	-9.94	-30.19
3	0.795	0.13	37.74	-	37.87	-	56.00	46.00	-18.13	-
4	1.703	0.16	30.68	-	30.84	-	56.00	46.00	-25.16	-
5	14.215	0.58	43.76	-	44.34	-	60.00	50.00	-15.66	-
6	19.707	0.71	40.64	-	41.35	-	60.00	50.00	-18.65	-

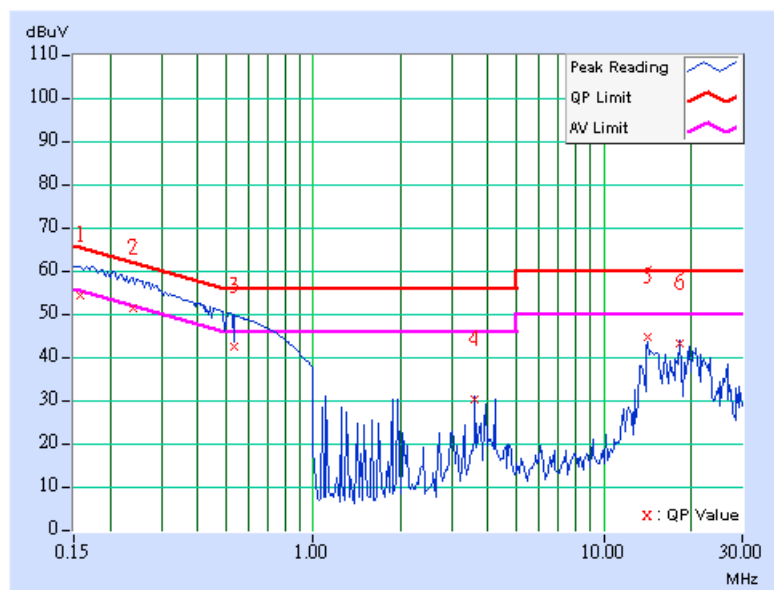
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 1
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	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	0.158	0.11	53.37	-	53.48	-	65.58	55.58	-12.10	-
2	0.240	0.12	50.61	-	50.73	-	62.10	52.10	-11.37	-
3	0.537	0.13	41.79	-	41.92	-	56.00	46.00	-14.08	-
4	3.613	0.20	29.59	-	29.79	-	56.00	46.00	-26.21	-
5	14.152	0.70	43.92	-	44.62	-	60.00	50.00	-15.38	-
6	18.242	0.94	42.25	-	43.19	-	60.00	50.00	-16.81	-

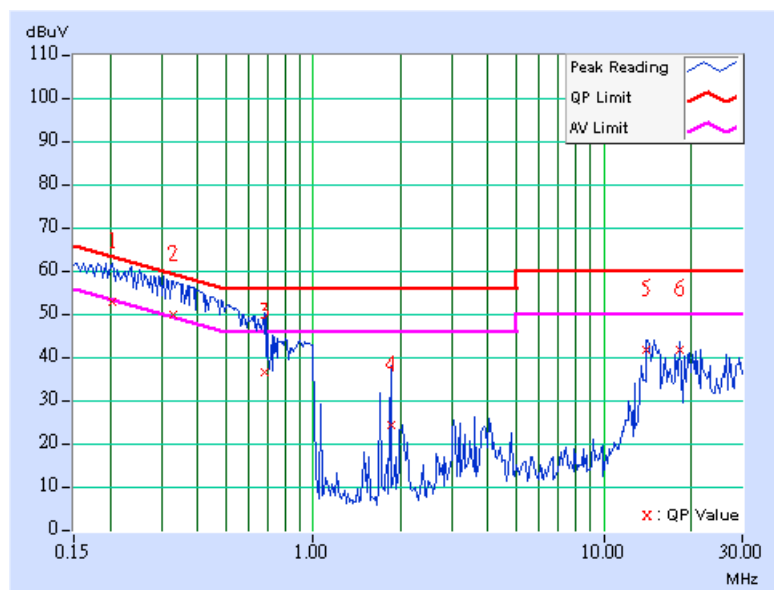
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 2
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	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	0.205	0.11	52.30	-	52.41	-	63.42	53.42	-11.01	-
2	0.330	0.11	49.14	-	49.25	-	59.46	49.46	-10.20	-
3	0.677	0.12	35.88	-	36.00	-	56.00	46.00	-20.00	-
4	1.852	0.16	23.63	-	23.79	-	56.00	46.00	-32.21	-
5	14.031	0.57	41.06	-	41.63	-	60.00	50.00	-18.37	-
6	18.242	0.69	41.07	-	41.76	-	60.00	50.00	-18.24	-

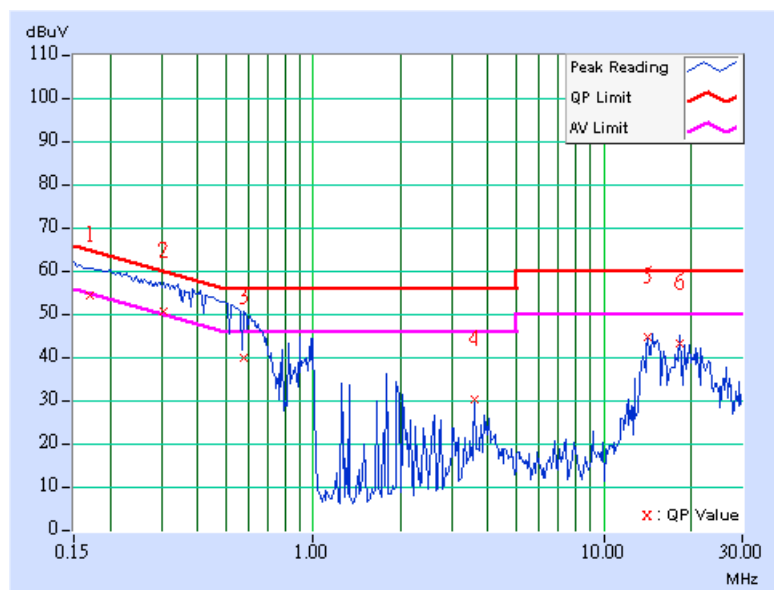
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 1
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	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	0.170	0.11	53.65	-	53.76	-	64.98	54.98	-11.22	-
2	0.306	0.12	49.74	-	49.86	-	60.07	50.07	-10.21	-
3	0.576	0.13	39.21	-	39.34	-	56.00	46.00	-16.66	-
4	3.609	0.20	29.57	-	29.77	-	56.00	46.00	-26.23	-
5	14.152	0.70	43.72	-	44.42	-	60.00	50.00	-15.58	-
6	18.242	0.94	42.22	-	43.16	-	60.00	50.00	-16.84	-

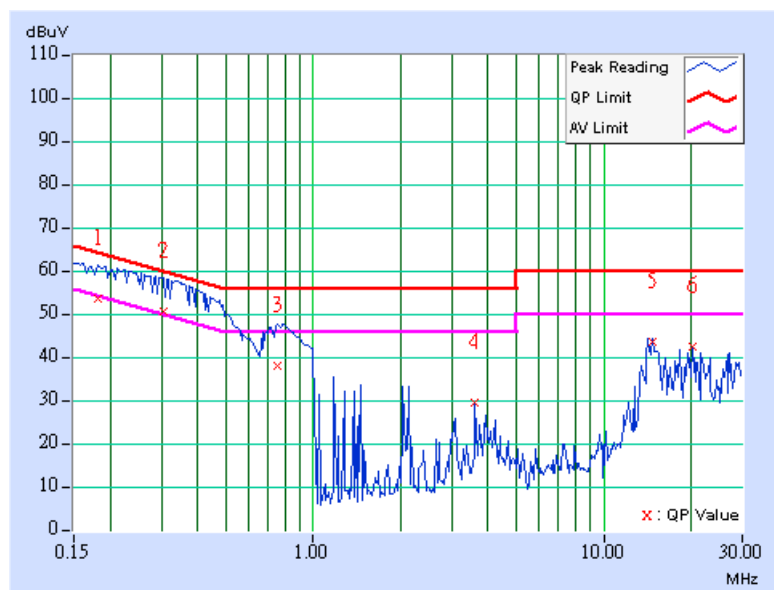
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 2
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	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	0.181	0.11	53.12	-	53.23	-	64.43	54.43	-11.20	-
2	0.306	0.11	49.88	-	49.99	-	60.07	50.07	-10.08	-
3	0.752	0.13	37.62	-	37.75	-	56.00	46.00	-18.25	-
4	3.609	0.19	29.02	-	29.21	-	56.00	46.00	-26.79	-
5	14.703	0.62	43.12	-	43.74	-	60.00	50.00	-16.26	-
6	20.258	0.71	41.86	-	42.57	-	60.00	50.00	-17.43	-

- 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.

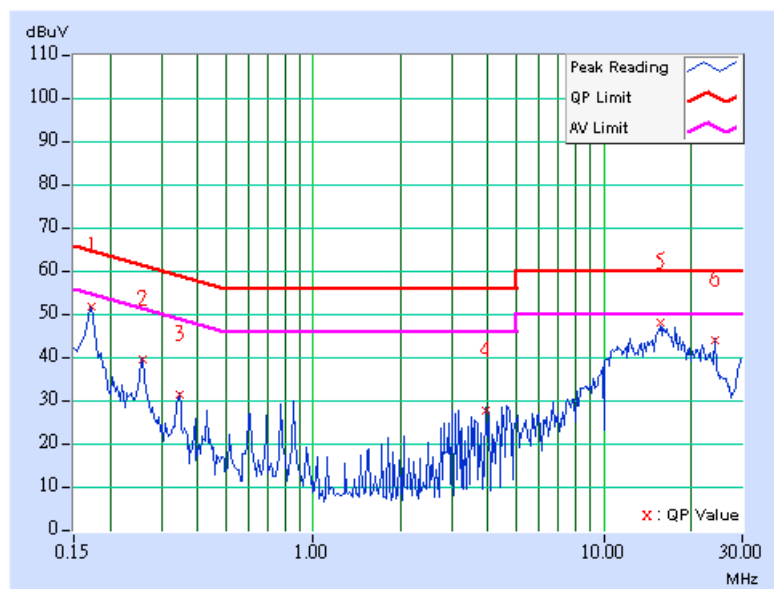


Conducted Worst-Case Data with POE

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 1
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

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	50.51	-	50.62	-	64.79	54.79	-14.18	-
2	0.259	0.11	38.15	-	38.26	-	61.45	51.45	-23.19	-
3	0.345	0.11	30.12	-	30.23	-	59.07	49.07	-28.84	-
4	3.953	0.39	26.53	-	26.92	-	56.00	46.00	-29.08	-
5	15.620	0.61	46.85	-	47.46	-	60.00	50.00	-12.54	-
6	24.191	1.30	42.64	-	43.94	-	60.00	50.00	-16.06	-

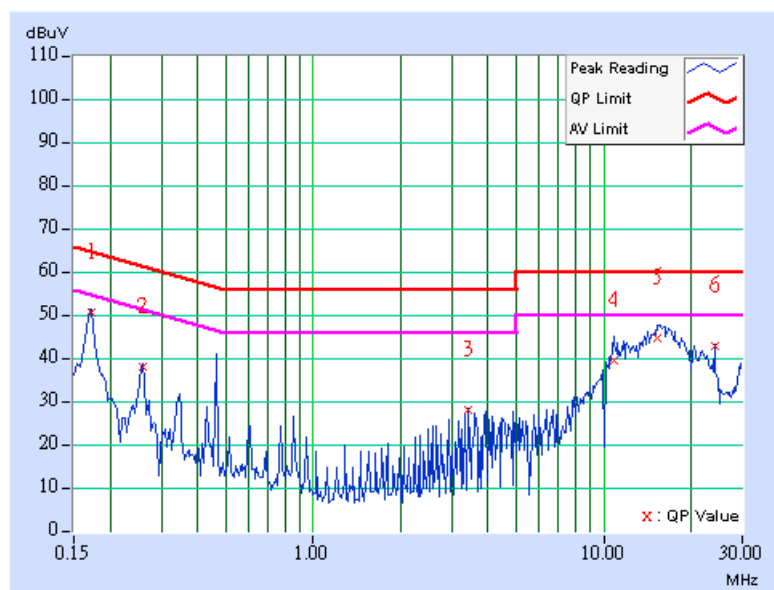
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 2
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

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	50.07	-	50.18	-	64.79	54.79	-14.62	-
2	0.259	0.11	37.29	-	37.40	-	61.45	51.45	-24.05	-
3	3.434	0.35	27.39	-	27.74	-	56.00	46.00	-28.26	-
4	10.816	0.44	38.84	-	39.28	-	60.00	50.00	-20.72	-
5	15.378	0.47	44.09	-	44.56	-	60.00	50.00	-15.44	-
6	24.191	0.83	42.02	-	42.85	-	60.00	50.00	-17.15	-

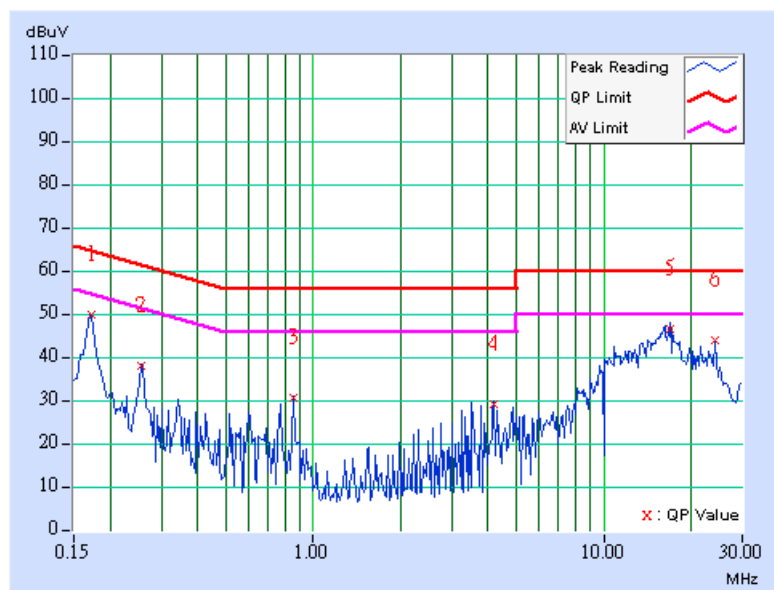
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 1
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

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	48.55	-	48.66	-	64.79	54.79	-16.14	-
2	0.255	0.11	36.75	-	36.86	-	61.58	51.58	-24.72	-
3	0.857	0.21	29.52	-	29.73	-	56.00	46.00	-26.27	-
4	4.203	0.40	27.94	-	28.34	-	56.00	46.00	-27.66	-
5	16.893	0.73	45.38	-	46.11	-	60.00	50.00	-13.89	-
6	24.188	1.30	42.72	-	44.02	-	60.00	50.00	-15.98	-

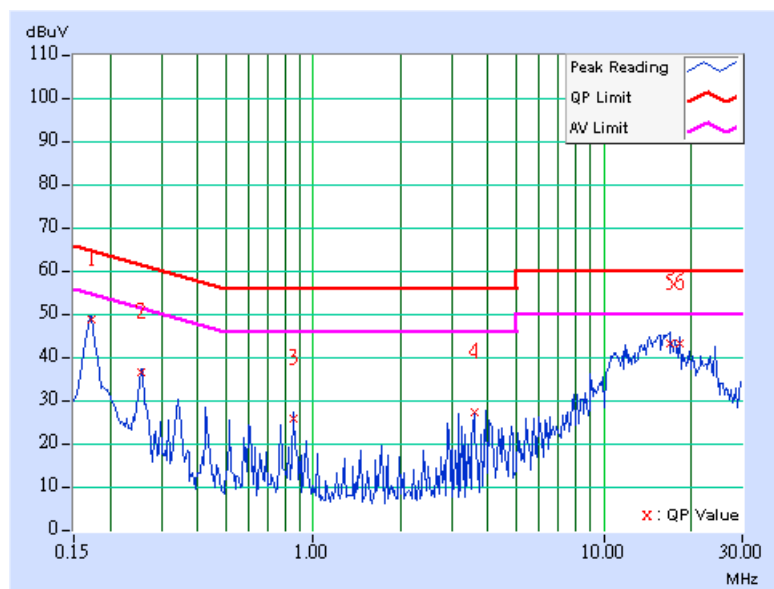
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 2
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

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	48.25	-	48.36	-	64.79	54.79	-16.44	-
2	0.255	0.11	36.01	-	36.12	-	61.58	51.58	-25.46	-
3	0.857	0.21	25.11	-	25.32	-	56.00	46.00	-30.68	-
4	3.602	0.36	26.91	-	27.27	-	56.00	46.00	-28.73	-
5	16.880	0.56	42.66	-	43.22	-	60.00	50.00	-16.78	-
6	18.242	0.63	42.69	-	43.32	-	60.00	50.00	-16.68	-

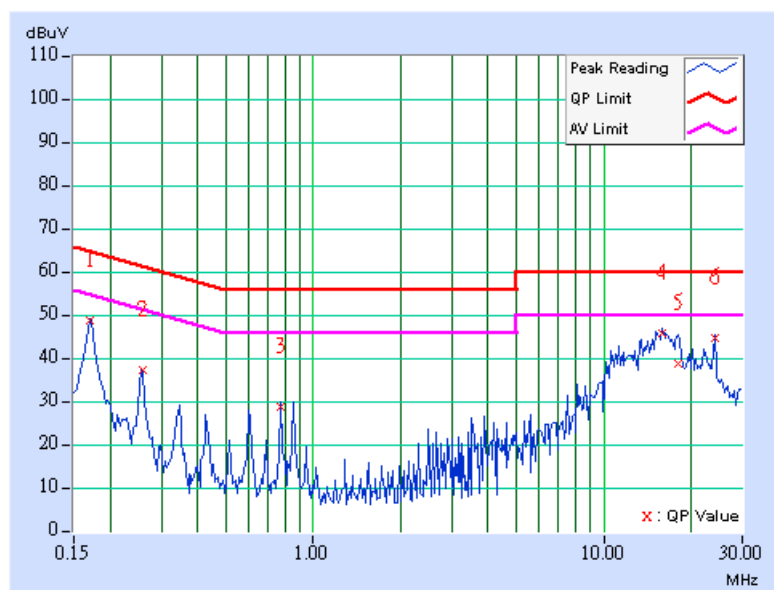
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 1
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

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	0.170	0.11	47.44	-	47.55	-	64.98	54.98	-17.44	-
2	0.259	0.11	35.97	-	36.08	-	61.45	51.45	-25.37	-
3	0.771	0.19	27.71	-	27.90	-	56.00	46.00	-28.10	-
4	15.977	0.64	44.56	-	45.20	-	60.00	50.00	-14.80	-
5	18.090	0.85	37.70	-	38.55	-	60.00	50.00	-21.45	-
6	24.188	1.30	43.67	-	44.97	-	60.00	50.00	-15.03	-

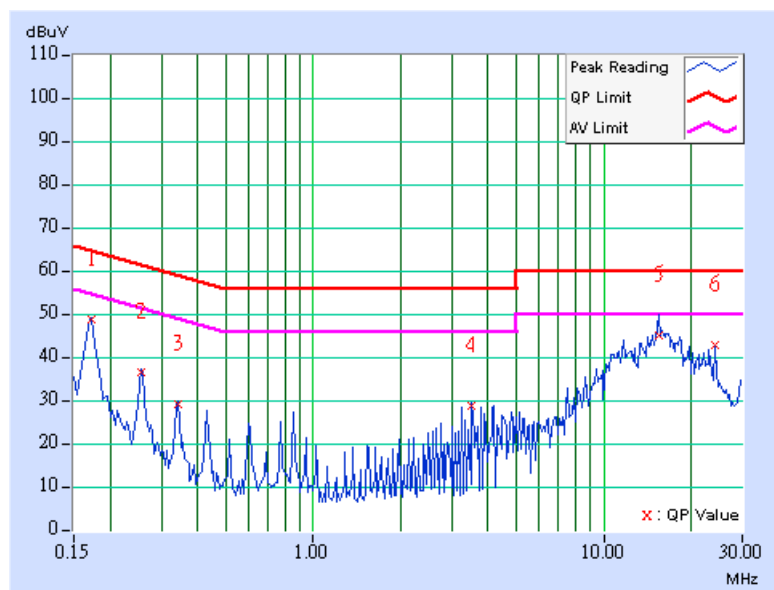
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	PHASE	Line 2
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	23deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

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	47.89	-	48.00	-	64.79	54.79	-16.80	-
2	0.255	0.11	35.71	-	35.82	-	61.58	51.58	-25.76	-
3	0.341	0.11	28.26	-	28.37	-	59.17	49.17	-30.80	-
4	3.516	0.36	28.19	-	28.55	-	56.00	46.00	-27.45	-
5	15.429	0.47	44.40	-	44.87	-	60.00	50.00	-15.13	-
6	24.188	0.83	42.25	-	43.08	-	60.00	50.00	-16.92	-

- 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. 31, 2005
HP Preamplifier	8447D	2944A08485	Apr. 26, 2006
* HP Preamplifier	8449B	3008A01638	Sep. 30, 2005
*SCHAFFNER TEST RECEIVER	SCR 3501	408	Jan. 03, 2006
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Feb. 03, 2006
SCHWARZBECK Tunable Dipole Antenna	VHA 9103	NA	Oct. 29, 2005
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
* CHASE BILOG Antenna	CBL6112A	2221	Oct 19, 2005
* EMCO Horn Antenna	3115	6714	Oct. 28, 2005
* EMCO Horn Antenna	3115	9312-4192	Feb. 28, 2006
* EMCO Turn Table	1060	1115	NA
* CHANCE Tower	CM-AT40	CM-A010	NA
* Software	ADT_Radiated _V7.5.14	NA	NA
* ADT RF Switches	EM-H-01-1	1002	Dec. 02, 2005
* TIMES RF cable	LMR-600	CABLE-ST5-01	Dec. 02, 2005

- 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. 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 OATS. 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 the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

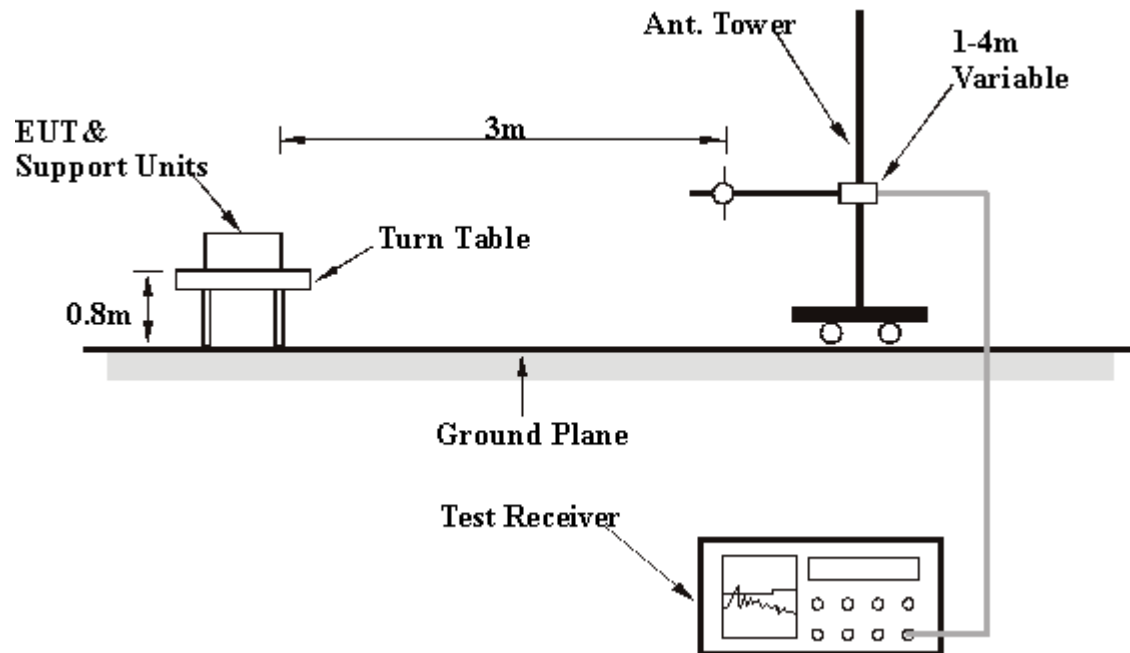
NOTE:

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

Below 1GHz Worst-Case Data with Adapter

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 74%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Nick Chen	TEST MODE	A

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	67.70	24.11 QP	40.00	-15.89	2.25 H	200	17.32	6.79
2	133.33	29.29 QP	43.50	-14.21	1.40 H	222	17.33	11.96
3	166.68	28.97 QP	43.50	-14.53	1.51 H	310	18.63	10.34
4	200.02	26.87 QP	43.50	-16.63	1.90 H	355	16.58	10.29
5	300.03	30.63 QP	46.00	-15.37	1.72 H	291	14.98	15.65
6	375.02	32.43 QP	46.00	-13.57	1.82 H	269	14.97	17.46
7	500.03	34.24 QP	46.00	-11.76	1.78 H	43	14.02	20.22
8	625.04	36.25 QP	46.00	-9.75	2.04 H	58	13.62	22.63
9	666.68	33.52 QP	46.00	-12.48	2.11 H	0	10.49	23.03
10	750.09	35.69 QP	46.00	-10.31	1.27 H	109	11.70	23.99
11	800.02	33.28 QP	46.00	-12.72	1.77 H	26	8.99	24.29

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	69.15	25.61 QP	40.00	-14.39	1.69 V	327	18.78	6.83
2	85.24	25.04 QP	40.00	-14.96	1.40 V	219	16.40	8.64
3	133.35	32.65 QP	43.50	-10.85	1.81 V	85	20.69	11.96
4	166.63	29.46 QP	43.50	-14.04	1.96 V	263	19.12	10.34
5	200.02	28.58 QP	43.50	-14.92	2.05 V	209	18.29	10.29
6	249.80	29.33 QP	46.00	-16.67	1.16 V	0	15.93	13.40
7	375.03	32.77 QP	46.00	-13.23	1.63 V	115	15.31	17.46
8	500.09	39.20 QP	46.00	-6.80	1.06 V	327	18.98	20.22
9	625.05	34.73 QP	46.00	-11.27	2.55 V	319	12.10	22.63
10	667.63	37.06 QP	46.00	-8.94	3.00 V	312	14.02	23.04
11	800.03	31.75 QP	46.00	-14.25	1.63 V	148	7.46	24.29

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

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 74%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Nick Chen	TEST MODE	B

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	85.62	24.69 QP	40.00	-15.31	1.69 H	142	16.00	8.69
2	133.33	27.16 QP	43.50	-16.34	1.74 H	124	15.20	11.96
3	166.65	28.21 QP	43.50	-15.29	1.44 H	36	17.87	10.34
4	300.02	31.99 QP	46.00	-14.01	2.08 H	111	16.34	15.65
5	375.09	32.71 QP	46.00	-13.29	1.62 H	358	15.25	17.46
6	500.08	34.15 QP	46.00	-11.85	1.38 H	296	13.93	20.22
7	625.04	36.52 QP	46.00	-9.48	1.94 H	305	13.89	22.63
8	667.25	33.95 QP	46.00	-12.05	2.15 H	4	10.91	23.04
9	800.10	35.69 QP	46.00	-10.31	1.26 H	49	11.40	24.29

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	83.06	28.61 QP	40.00	-11.39	2.05 V	109	20.26	8.35
2	133.34	27.96 QP	43.50	-15.54	1.51 V	23	16.00	11.96
3	166.62	29.14 QP	43.50	-14.36	1.92 V	231	18.80	10.34
4	200.03	27.11 QP	43.50	-16.39	2.21 V	342	16.82	10.29
5	249.99	28.40 QP	46.00	-17.60	1.44 V	296	14.99	13.41
6	375.06	33.06 QP	46.00	-12.94	1.74 V	329	15.60	17.46
7	475.02	33.94 QP	46.00	-12.06	1.37 V	55	14.32	19.62
8	500.03	31.91 QP	46.00	-14.09	1.84 V	105	11.69	20.22
9	625.06	33.42 QP	46.00	-12.58	1.66 V	334	10.79	22.63
10	666.67	35.12 QP	46.00	-10.88	2.16 V	64	12.09	23.03
11	800.06	34.32 QP	46.00	-11.68	2.51 V	324	10.03	24.29
12	850.07	33.12 QP	46.00	-12.88	1.22 V	79	8.43	24.69

REMARKS:

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

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 74%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Nick Chen	TEST MODE	C

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	72.32	21.69 QP	40.00	-18.31	1.63 H	96	14.58	7.11
2	133.24	28.51 QP	43.50	-14.99	1.74 H	204	16.54	11.97
3	166.66	28.96 QP	43.50	-14.54	1.51 H	84	18.62	10.34
4	300.06	28.94 QP	46.00	-17.06	1.42 H	79	13.29	15.65
5	400.03	35.71 QP	46.00	-10.29	2.00 H	71	17.31	18.40
6	500.03	38.14 QP	46.00	-7.86	1.99 H	263	17.92	20.22
7	625.06	34.29 QP	46.00	-11.71	2.41 H	117	11.66	22.63
8	666.62	33.47 QP	46.00	-12.53	2.14 H	168	10.44	23.03
9	750.08	31.48 QP	46.00	-14.52	2.43 H	84	7.49	23.99
10	800.01	34.96 QP	46.00	-11.04	1.61 H	94	10.67	24.29

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	69.30	26.98 QP	40.00	-13.02	2.41 V	149	20.14	6.84
2	83.07	27.81 QP	40.00	-12.19	1.82 V	241	19.46	8.35
3	133.33	33.09 QP	43.50	-10.41	1.77 V	201	21.13	11.96
4	166.65	27.52 QP	43.50	-15.98	1.26 V	299	17.18	10.34
5	200.04	29.68 QP	43.50	-13.82	1.42 V	185	19.39	10.29
6	325.02	28.86 QP	46.00	-17.14	1.66 V	247	12.77	16.09
7	375.02	28.59 QP	46.00	-17.41	1.98 V	74	11.13	17.46
8	500.01	32.85 QP	46.00	-13.15	1.54 V	50	12.63	20.22
9	625.02	37.56 QP	46.00	-8.44	1.14 V	187	14.93	22.63
10	750.03	30.04 QP	46.00	-15.96	1.40 V	0	6.05	23.99

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

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 74%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Nick Chen	TEST MODE	D

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	72.31	21.69 QP	40.00	-18.31	2.77 H	59	14.58	7.11
2	133.36	28.94 QP	43.50	-14.56	1.85 H	74	16.98	11.96
3	166.67	30.51 QP	43.50	-12.99	2.09 H	172	20.17	10.34
4	300.02	30.71 QP	46.00	-15.29	1.59 H	203	15.06	15.65
5	400.06	36.05 QP	46.00	-9.95	1.76 H	10	17.65	18.40
6	500.03	37.14 QP	46.00	-8.86	1.49 H	102	16.92	20.22
7	625.03	35.96 QP	46.00	-10.04	2.72 H	67	13.33	22.63
8	666.68	33.49 QP	46.00	-12.51	1.95 H	308	10.46	23.03
9	750.04	31.77 QP	46.00	-14.23	2.00 H	119	7.78	23.99
10	800.06	34.29 QP	46.00	-11.71	1.55 H	39	10.00	24.29

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	62.15	26.17 QP	40.00	-13.83	1.84 V	118	19.55	6.62
2	85.61	35.15 QP	40.00	-4.85	1.52 V	33	26.47	8.68
3	125.03	30.11 QP	43.50	-13.39	1.88 V	206	17.87	12.24
4	133.34	37.11 QP	43.50	-6.39	1.62 V	75	25.15	11.96
5	200.09	27.96 QP	43.50	-15.54	2.05 V	79	17.66	10.30
6	240.09	28.14 QP	46.00	-17.86	1.46 V	315	15.35	12.79
7	325.04	26.71 QP	46.00	-19.29	1.87 V	294	10.62	16.09
8	375.00	31.96 QP	46.00	-14.04	2.41 V	78	14.50	17.46
9	500.02	34.98 QP	46.00	-11.02	1.75 V	85	14.76	20.22
10	625.01	37.59 QP	46.00	-8.41	1.54 V	105	14.96	22.63
11	666.96	36.11 QP	46.00	-9.89	1.85 V	291	13.08	23.03
12	750.01	34.85 QP	46.00	-11.15	2.18 V	65	10.86	23.99

- 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.

Below 1GHz Worst-Case Data with POE

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 74%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Nick Chen	TEST MODE	A

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	72.34	22.17 QP	40.00	-17.83	1.42 H	348	15.05	7.12
2	119.38	32.69 QP	43.50	-10.81	1.16 H	105	20.33	12.36
3	141.24	28.12 QP	43.50	-15.38	1.75 H	141	16.45	11.67
4	184.64	35.63 QP	43.50	-7.87	1.00 H	188	25.66	9.97
5	222.72	28.69 QP	46.00	-17.31	2.47 H	221	16.98	11.71
6	242.52	33.94 QP	46.00	-12.06	1.75 H	207	21.00	12.94
7	273.92	34.21 QP	46.00	-11.79	1.29 H	158	19.33	14.88
8	375.02	32.28 QP	46.00	-13.72	1.33 H	282	14.82	17.46
9	500.03	39.47 QP	46.00	-6.53	1.59 H	73	19.25	20.22
10	625.00	39.63 QP	46.00	-6.37	1.90 H	112	17.00	22.63
11	800.02	30.73 QP	46.00	-15.27	1.41 H	20	6.44	24.29

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	76.40	29.17 QP	40.00	-10.83	1.71 V	173	21.61	7.56
2	120.20	37.93 QP	43.50	-5.57	1.53 V	20	25.53	12.40
3	133.34	32.99 QP	43.50	-10.51	1.91 V	92	21.03	11.96
4	162.66	30.73 QP	43.50	-12.77	1.08 V	20	20.25	10.48
5	184.32	37.87 QP	43.50	-5.63	1.24 V	115	27.91	9.96
6	234.30	33.03 QP	46.00	-12.97	1.19 V	317	20.60	12.43
7	375.02	30.33 QP	46.00	-15.67	1.11 V	20	12.87	17.46
8	500.02	43.76 QP	46.00	-2.24	1.38 V	37	23.54	20.22
9	625.03	37.36 QP	46.00	-8.64	1.85 V	0	14.73	22.63
10	667.63	35.19 QP	46.00	-10.81	1.27 V	45	12.15	23.04
11	750.03	31.09 QP	46.00	-14.91	2.47 V	218	7.10	23.99

REMARKS:

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

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 74%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Nick Chen	TEST MODE	B

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	86.82	20.69 QP	40.00	-19.31	1.09 H	77	11.85	8.84
2	119.63	32.69 QP	43.50	-10.81	1.72 H	74	20.31	12.38
3	152.26	30.49 QP	43.50	-13.01	1.93 H	351	19.47	11.02
4	184.41	37.11 QP	43.50	-6.39	2.18 H	100	27.15	9.96
5	209.37	29.84 QP	43.50	-13.66	1.53 H	42	18.97	10.87
6	266.64	37.29 QP	46.00	-8.71	1.75 H	84	22.56	14.73
7	375.05	32.69 QP	46.00	-13.31	1.88 H	150	15.23	17.46
8	500.09	40.95 QP	46.00	-5.05	1.99 H	6	20.73	20.22
9	625.03	38.11 QP	46.00	-7.89	1.61 H	79	15.48	22.63
10	750.06	33.46 QP	46.00	-12.54	1.70 H	296	9.47	23.99

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	86.32	29.63 QP	40.00	-10.37	1.84 V	3	20.85	8.78
2	114.18	34.69 QP	43.50	-8.81	1.63 V	75	22.76	11.93
3	174.23	37.25 QP	43.50	-6.25	1.42 V	89	27.18	10.07
4	184.63	37.19 QP	43.50	-6.31	1.62 V	72	27.22	9.97
5	193.71	33.92 QP	43.50	-9.58	1.09 V	88	23.76	10.16
6	234.16	34.96 QP	46.00	-11.04	1.28 V	296	22.54	12.42
7	375.06	33.42 QP	46.00	-12.58	2.01 V	10	15.96	17.46
8	500.08	38.16 QP	46.00	-7.84	1.84 V	79	17.94	20.22
9	625.04	37.24 QP	46.00	-8.76	1.49 V	72	14.61	22.63
10	667.66	34.95 QP	46.00	-11.05	2.05 V	96	11.91	23.04
11	750.06	33.74 QP	46.00	-12.26	1.79 V	59	9.75	23.99

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

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 74%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Nick Chen	TEST MODE	C

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	85.24	28.13 QP	40.00	-11.87	1.06 H	72	19.49	8.64
2	112.32	30.29 QP	43.50	-13.21	1.82 H	71	18.51	11.78
3	151.16	30.96 QP	43.50	-12.54	1.42 H	5	19.87	11.09
4	184.34	39.41 QP	43.50	-4.09	2.00 H	86	29.45	9.96
5	251.58	35.18 QP	46.00	-10.82	1.77 H	33	21.57	13.61
6	282.41	36.98 QP	46.00	-9.02	1.90 H	47	21.85	15.13
7	500.09	42.65 QP	46.00	-3.35	2.34 H	196	22.43	20.22
8	750.07	31.49 QP	46.00	-14.51	3.01 H	351	7.50	23.99
9	800.06	35.92 QP	46.00	-10.08	1.29 H	42	11.63	24.29

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	86.26	27.72 QP	40.00	-12.28	1.00 V	292	18.95	8.77
2	108.66	36.44 QP	43.50	-7.06	1.07 V	333	24.96	11.48
3	142.55	29.85 QP	43.50	-13.65	1.09 V	127	18.26	11.59
4	173.34	37.48 QP	43.50	-6.02	1.41 V	277	27.38	10.10
5	193.74	34.93 QP	43.50	-8.57	1.72 V	237	24.77	10.16
6	223.02	33.94 QP	46.00	-12.06	1.26 V	181	22.21	11.73
7	242.92	31.63 QP	46.00	-14.37	1.75 V	21	18.66	12.97
8	375.02	33.82 QP	46.00	-12.18	1.23 V	87	16.36	17.46
9	500.02	43.84 QP	46.00	-2.16	1.14 V	48	23.62	20.22
10	625.01	35.53 QP	46.00	-10.47	1.79 V	278	12.90	22.63
11	667.63	36.51 QP	46.00	-9.49	2.61 V	328	13.47	23.04
12	750.02	33.41 QP	46.00	-12.59	1.11 V	235	9.42	23.99

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

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 74%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Nick Chen	TEST MODE	D

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	85.59	27.36 QP	40.00	-12.64	2.14 H	96	18.68	8.68
2	112.36	31.28 QP	43.50	-12.22	1.85 H	306	19.50	11.78
3	151.36	29.41 QP	43.50	-14.09	1.63 H	205	18.33	11.08
4	184.36	38.11 QP	43.50	-5.39	1.29 H	17	28.15	9.96
5	251.52	34.12 QP	46.00	-11.88	2.01 H	99	20.52	13.60
6	282.42	35.27 QP	46.00	-10.73	1.84 H	100	20.14	15.13
7	500.03	41.39 QP	46.00	-4.61	1.55 H	329	21.17	20.22
8	750.02	30.56 QP	46.00	-15.44	1.38 H	20	6.57	23.99
9	800.03	34.91 QP	46.00	-11.09	1.24 H	331	10.62	24.29

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	74.96	28.69 QP	40.00	-11.31	1.55 V	38	21.29	7.40
2	83.32	28.17 QP	40.00	-11.83	1.34 V	305	19.79	8.38
3	110.13	38.19 QP	43.50	-5.31	1.62 V	72	26.59	11.60
4	141.62	35.16 QP	43.50	-8.34	2.00 V	76	23.51	11.65
5	184.63	40.19 QP	43.50	-3.31	2.06 V	87	30.22	9.97
6	223.31	35.91 QP	46.00	-10.09	1.02 V	342	24.17	11.74
7	235.26	33.41 QP	46.00	-12.59	1.60 V	57	20.92	12.49
8	375.00	31.29 QP	46.00	-14.71	1.66 V	172	13.83	17.46
9	499.98	43.62 QP	46.00	-2.38	1.01 V	129	23.40	20.22
10	625.03	38.14 QP	46.00	-7.86	1.34 V	129	15.51	22.63
11	750.03	35.19 QP	46.00	-10.81	1.18 V	62	11.20	23.99

- 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.

802.11b DSSS modulation (3dBi antenna)

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	1200.00	45.80 PK	74.00	-28.20	1.01 H	200	18.79	27.01
1	1200.00	42.20 AV	54.00	-11.80	1.01 H	200	15.19	27.01
2	2038.00	47.50 PK	74.00	-26.50	1.02 H	150	16.85	30.65
2	2038.00	43.60 AV	54.00	-10.40	1.02 H	150	12.95	30.65
3	2386.00	41.35 PK	74.00	-32.65	1.08 H	336	9.56	31.79
3	2386.00	37.84 AV	54.00	-16.16	1.08 H	336	6.05	31.79
4	*2412.00	95.35 PK			1.08 H	336	63.48	31.87
4	*2412.00	91.84 AV			1.08 H	336	59.97	31.87
5	4824.00	55.75 PK	74.00	-18.25	1.00 H	203	17.63	38.11
5	4824.00	52.91 AV	54.00	-1.09	1.00 H	203	14.79	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	1600.00	43.58 PK	74.00	-30.42	1.12 V	240	14.95	28.63
1	1600.00	42.10 AV	54.00	-11.90	1.12 V	240	13.47	28.63
2	2038.00	48.24 PK	74.00	-25.76	1.21 V	48	17.59	30.65
2	2038.00	43.56 AV	54.00	-10.44	1.21 V	48	12.91	30.65
3	2386.00	51.32 PK	74.00	-22.68	1.04 V	234	19.53	31.79
3	2386.00	48.03 AV	54.00	-5.97	1.04 V	234	16.24	31.79
4	*2412.00	106.32 PK			1.04 V	234	74.45	31.87
4	*2412.00	102.03 AV			1.04 V	234	70.16	31.87
5	4824.00	54.27 PK	74.00	-19.73	1.05 V	185	16.15	38.11
5	4824.00	50.43 AV	54.00	-3.57	1.05 V	185	12.31	38.11

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	1200.00	42.58 PK	74.00	-31.42	1.01 H	320	15.57	27.01
1	1200.00	38.16 AV	54.00	-15.84	1.01 H	320	11.15	27.01
2	2063.00	42.19 PK	74.00	-31.81	1.00 H	50	11.50	30.69
2	2063.00	36.90 AV	54.00	-17.10	1.00 H	50	6.21	30.69
3	*2437.00	96.88 PK			1.07 H	202	64.93	31.95
3	*2437.00	93.37 AV			1.07 H	202	61.42	31.95
4	4874.00	54.40 PK	74.00	-19.60	1.00 H	196	16.11	38.28
4	4874.00	51.12 AV	54.00	-2.88	1.00 H	196	12.83	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	1600.00	44.58 PK	74.00	-29.42	1.05 V	90	15.95	28.63
1	1600.00	43.10 AV	54.00	-10.90	1.05 V	90	14.47	28.63
2	2063.00	45.68 PK	74.00	-28.32	1.20 V	163	14.99	30.69
2	2063.00	42.59 AV	54.00	-11.41	1.20 V	163	11.90	30.69
3	*2437.00	108.33 PK			1.11 V	19	76.38	31.95
3	*2437.00	104.92 AV			1.11 V	19	72.97	31.95
4	4874.00	53.93 PK	74.00	-20.07	1.07 V	305	15.64	38.28
4	4874.00	49.93 AV	54.00	-4.07	1.07 V	305	11.64	38.28

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	1200.00	46.80 PK	74.00	-27.20	1.10 H	47	19.79	27.01
1	1200.00	42.50 AV	54.00	-11.50	1.10 H	47	15.49	27.01
2	2088.00	46.20 PK	74.00	-27.80	1.00 H	360	15.47	30.73
2	2088.00	43.10 AV	54.00	-10.90	1.00 H	360	12.37	30.73
3	*2462.00	96.40 PK			1.22 H	251	64.38	32.02
3	*2462.00	93.20 AV			1.22 H	251	61.18	32.02
4	2488.00	43.40 PK	74.00	-30.60	1.22 H	251	11.30	32.10
4	2488.00	40.20 AV	54.00	-13.80	1.22 H	251	8.10	32.10
5	4924.00	55.01 PK	74.00	-18.99	1.05 H	237	16.52	38.49
5	4924.00	51.63 AV	54.00	-2.37	1.05 H	237	13.14	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	1600.00	43.50 PK	74.00	-30.50	1.01 V	264	14.87	28.63
1	1600.00	43.10 AV	54.00	-10.90	1.01 V	264	14.47	28.63
2	2088.00	48.50 PK	74.00	-25.50	1.20 V	30	17.77	30.73
2	2088.00	44.19 AV	54.00	-9.81	1.20 V	30	13.46	30.73
3	*2462.00	108.05 PK			1.07 V	208	76.03	32.02
3	*2462.00	105.61 AV			1.07 V	208	73.59	32.02
4	2488.00	56.05 PK	74.00	-17.95	1.07 V	208	23.95	32.10
4	2488.00	52.61 AV	54.00	-1.39	1.07 V	208	20.51	32.10
5	4924.00	55.24 PK	74.00	-18.76	1.11 V	80	16.75	38.49
5	4924.00	52.06 AV	54.00	-1.94	1.11 V	80	13.57	38.49

- 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.
 5. “ * ” : Fundamental frequency

802.11b DSSS modulation (5dBi antenna)

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	1200.00	44.28 PK	74.00	-29.72	1.10 H	250	17.27	27.01
1	1200.00	41.41 AV	54.00	-12.59	1.10 H	250	14.40	27.01
2	2038.00	45.89 PK	74.00	-28.11	1.01 H	258	15.24	30.65
2	2038.00	41.21 AV	54.00	-12.79	1.01 H	258	10.56	30.65
3	2386.00	37.21 PK	74.00	-36.79	1.01 H	142	5.42	31.79
3	2386.00	34.79 AV	54.00	-19.21	1.01 H	142	3.00	31.79
4	*2412.00	91.21 PK			1.01 H	142	59.34	31.87
4	*2412.00	88.79 AV			1.01 H	142	56.92	31.87
5	4824.00	53.04 PK	74.00	-20.96	1.12 H	248	14.93	38.11
5	4824.00	50.56 AV	54.00	-3.44	1.12 H	248	12.45	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	1600.00	44.96 PK	74.00	-29.04	1.04 V	323	16.33	28.63
1	1600.00	41.97 AV	54.00	-12.03	1.04 V	323	13.34	28.63
2	2038.00	46.76 PK	74.00	-27.24	1.00 V	261	16.11	30.65
2	2038.00	44.19 AV	54.00	-9.81	1.00 V	261	13.54	30.65
3	2386.00	53.48 PK	74.00	-20.52	1.12 V	149	21.69	31.79
3	2386.00	50.05 AV	54.00	-3.95	1.12 V	149	18.26	31.79
4	*2412.00	107.48 PK			1.12 V	149	75.61	31.87
4	*2412.00	104.05 AV			1.12 V	149	72.18	31.87
5	4824.00	53.98 PK	74.00	-20.02	1.00 V	258	15.86	38.11
5	4824.00	50.69 AV	54.00	-3.31	1.00 V	258	12.57	38.11

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	1200.00	44.26 PK	74.00	-29.74	1.28 H	300	17.25	27.01
1	1200.00	40.59 AV	54.00	-13.41	1.28 H	300	13.58	27.01
2	2063.00	44.28 PK	74.00	-29.72	1.25 H	260	13.59	30.69
2	2063.00	38.60 AV	54.00	-15.40	1.25 H	260	7.91	30.69
3	*2437.00	96.96 PK			1.07 H	336	65.01	31.95
3	*2437.00	93.64 AV			1.07 H	336	61.69	31.95
4	4874.00	54.81 PK	74.00	-19.19	1.00 H	195	16.52	38.28
4	4874.00	51.77 AV	54.00	-2.23	1.00 H	195	13.48	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	1600.00	46.09 PK	74.00	-27.91	1.16 V	355	17.46	28.63
1	1600.00	43.55 AV	54.00	-10.45	1.16 V	355	14.92	28.63
2	2063.00	47.45 PK	74.00	-26.55	1.21 V	1	16.76	30.69
2	2063.00	44.50 AV	54.00	-9.50	1.21 V	1	13.81	30.69
3	*2437.00	109.67 PK			1.10 V	304	77.72	31.95
3	*2437.00	106.35 AV			1.10 V	304	74.40	31.95
4	4874.00	53.81 PK	74.00	-20.19	1.13 V	123	15.52	38.28
4	4874.00	50.05 AV	54.00	-3.95	1.13 V	123	11.76	38.28

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	1200.00	47.58 PK	74.00	-26.42	1.10 H	40	20.57	27.01
1	1200.00	43.66 AV	54.00	-10.34	1.10 H	40	16.65	27.01
2	2088.00	45.70 PK	74.00	-28.30	1.00 H	54	14.97	30.73
2	2088.00	42.96 AV	54.00	-11.04	1.00 H	54	12.23	30.73
3	*2462.00	97.85 PK			1.21 H	154	65.83	32.02
3	*2462.00	34.58 AV			1.21 H	154	2.56	32.02
4	2488.00	44.70 PK	74.00	-29.30	1.21 H	154	12.60	32.10
4	2488.00	42.10 AV	54.00	-11.90	1.21 H	154	10.00	32.10
5	4924.00	56.21 PK	74.00	-17.79	1.11 H	200	17.72	38.49
5	4924.00	51.29 AV	54.00	-2.71	1.11 H	200	12.80	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	1600.00	44.21 PK	74.00	-29.79	1.00 V	250	15.58	28.63
1	1600.00	44.10 AV	54.00	-9.90	1.00 V	250	15.47	28.63
2	2088.00	48.70 PK	74.00	-25.30	1.21 V	300	17.97	30.73
2	2088.00	45.01 AV	54.00	-8.99	1.21 V	300	14.28	30.73
3	*2462.00	108.51 PK			1.05 V	200	76.49	32.02
3	*2462.00	104.57 AV			1.05 V	200	72.55	32.02
4	2488.00	57.14 PK	74.00	-16.86	1.05 V	200	25.04	32.10
4	2488.00	51.89 AV	54.00	-2.11	1.05 V	200	19.79	32.10
5	4924.00	56.21 PK	74.00	-17.79	1.10 V	45	17.72	38.49
5	4924.00	51.26 AV	54.00	-2.74	1.10 V	45	12.77	38.49

- 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.
 5. “ * ” : Fundamental frequency

802.11b DSSS modulation (7dBi antenna)

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	C

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	1200.00	45.78 PK	74.00	-28.22	1.12 H	251	18.77	27.01
1	1200.00	41.99 AV	54.00	-12.01	1.12 H	251	14.98	27.01
2	2038.00	46.36 PK	74.00	-27.64	1.02 H	325	15.71	30.65
2	2038.00	42.80 AV	54.00	-11.20	1.02 H	325	12.15	30.65
3	2386.00	38.79 PK	74.00	-35.21	1.14 H	150	7.00	31.79
3	2386.00	35.37 AV	54.00	-18.63	1.14 H	150	3.58	31.79
4	*2412.00	93.41 PK			1.14 H	150	61.54	31.87
4	*2412.00	90.47 AV			1.14 H	150	58.60	31.87
5	4824.00	54.79 PK	74.00	-19.21	1.00 H	197	16.67	38.11
5	4824.00	51.42 AV	54.00	-2.58	1.00 H	197	13.30	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	1600.00	45.89 PK	74.00	-28.11	1.15 V	314	18.16	27.73
1	1600.00	43.16 AV	54.00	-10.84	1.15 V	314	15.43	27.73
2	2038.00	47.52 PK	74.00	-26.48	1.12 V	304	18.23	29.29
2	2038.00	44.56 AV	54.00	-9.44	1.12 V	304	15.27	29.29
3	2386.00	54.46 PK	74.00	-19.54	1.08 V	197	23.68	30.78
3	2386.00	51.54 AV	54.00	-2.46	1.08 V	197	20.76	30.78
4	*2412.00	109.41 PK			1.08 V	197	78.53	30.88
4	*2412.00	106.19 AV			1.08 V	197	75.31	30.88
5	4824.00	51.93 PK	74.00	-22.07	1.14 V	156	15.48	36.45
5	4824.00	46.58 AV	54.00	-7.42	1.14 V	156	10.13	36.45

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	C

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	1200.00	43.85 PK	74.00	-30.15	1.31 H	360	16.84	27.01
1	1200.00	39.32 AV	54.00	-14.68	1.31 H	360	12.31	27.01
2	2063.00	43.16 PK	74.00	-30.84	1.36 H	360	12.47	30.69
2	2063.00	37.72 AV	54.00	-16.28	1.36 H	360	7.03	30.69
3	*2437.00	96.24 PK			1.09 H	150	64.29	31.95
3	*2437.00	92.53 AV			1.09 H	150	60.58	31.95
4	4874.00	55.64 PK	74.00	-18.36	1.00 H	84	17.36	38.28
4	4874.00	52.98 AV	54.00	-1.02	1.00 H	84	14.70	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	1600.00	45.42 PK	74.00	-28.58	1.07 V	185	16.79	28.63
1	1600.00	42.63 AV	54.00	-11.37	1.07 V	185	14.00	28.63
2	2063.00	46.56 PK	74.00	-27.44	1.00 V	294	15.87	30.69
2	2063.00	43.28 AV	54.00	-10.72	1.00 V	294	12.59	30.69
3	*2437.00	110.24 PK			1.19 V	329	78.29	31.95
3	*2437.00	106.01 AV			1.19 V	329	74.06	31.95
4	4874.00	53.49 PK	74.00	-20.51	1.00 V	200	15.21	38.28
4	4874.00	50.02 AV	54.00	-3.98	1.00 V	200	11.74	38.28

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	C

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	1200.00	45.26 PK	74.00	-28.74	1.14 H	249	18.25	27.01
1	1200.00	41.83 AV	54.00	-12.17	1.14 H	249	14.82	27.01
2	2088.00	45.99 PK	74.00	-28.01	1.00 H	290	15.26	30.73
2	2088.00	42.95 AV	54.00	-11.05	1.00 H	290	12.22	30.73
3	*2462.00	94.58 PK		20.58	1.10 H	151	62.56	32.02
3	*2462.00	91.58 AV		37.58	1.10 H	151	59.56	32.02
4	2487.00	40.25 PK	74.00	-33.75	1.10 H	151	8.15	32.10
4	2487.00	37.50 AV	54.00	-16.50	1.10 H	151	5.40	32.10
5	4924.00	54.63 PK	74.00	-19.37	1.00 H	198	16.14	38.49
5	4924.00	51.24 AV	54.00	-2.76	1.00 H	198	12.75	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	1066.00	44.13 PK	74.00	-29.87	1.05 V	88	17.55	26.58
1	1066.00	42.24 AV	54.00	-11.76	1.05 V	88	15.66	26.58
2	2088.00	47.17 PK	74.00	-26.83	1.14 V	155	16.44	30.73
2	2088.00	45.13 AV	54.00	-8.87	1.14 V	155	14.40	30.73
3	*2462.00	110.53 PK			1.14 V	202	78.51	32.02
3	*2462.00	107.89 AV			1.14 V	202	75.87	32.02
4	2487.00	55.89 PK	74.00	-18.11	1.14 V	202	23.79	32.10
4	2487.00	52.86 AV	54.00	-1.14	1.14 V	202	20.76	32.10
5	4924.00	51.81 PK	74.00	-22.19	1.01 V	291	13.32	38.49
5	4924.00	47.40 AV	54.00	-6.60	1.01 V	291	8.91	38.49

- 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.
 5. “ * ” : Fundamental frequency

802.11b DSSS modulation (7dBi antenna with cardle)

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	D

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	1200.00	43.04 PK	74.00	-30.96	1.19 H	360	16.05	26.99
1	1200.00	39.08 AV	54.00	-14.92	1.19 H	360	12.09	26.99
2	2038.00	44.30 PK	74.00	-29.70	1.04 H	101	14.79	29.51
2	2038.00	40.75 AV	54.00	-13.25	1.04 H	101	11.24	29.51
3	2390.00	52.97 PK	74.00	-21.03	1.06 H	252	22.00	30.97
3	2390.00	43.35 AV	54.00	-10.65	1.06 H	252	12.38	30.97
4	*2412.00	91.65 PK			1.06 H	252	60.59	31.06
4	*2412.00	88.25 AV			1.06 H	252	57.19	31.06
5	4824.00	50.42 PK	74.00	-23.58	1.01 H	313	13.99	36.43
5	4824.00	46.58 AV	54.00	-7.42	1.01 H	313	10.15	36.43

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	1600.00	44.74 PK	74.00	-29.26	1.18 V	95	16.78	27.96
1	1600.00	42.33 AV	54.00	-11.67	1.18 V	95	14.37	27.96
2	2038.00	43.92 PK	74.00	-30.08	1.12 V	360	14.41	29.51
2	2038.00	40.79 AV	54.00	-13.21	1.12 V	360	11.28	29.51
3	2390.00	51.32 PK	74.00	-22.68	1.00 V	234	20.35	30.97
3	2390.00	43.80 AV	54.00	-10.20	1.00 V	234	12.83	30.97
4	*2412.00	104.40 PK			1.00 V	234	73.34	31.06
4	*2412.00	101.41 AV			1.00 V	234	70.35	31.06
5	4824.00	49.77 PK	74.00	-24.23	1.31 V	39	13.34	36.43
5	4824.00	45.29 AV	54.00	-8.71	1.31 V	39	8.86	36.43

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	D

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	1200.00	43.35 PK	74.00	-30.65	1.20 H	10	16.36	26.99
1	1200.00	39.65 AV	54.00	-14.35	1.20 H	10	12.66	26.99
2	2063.00	44.52 PK	74.00	-29.48	1.06 H	121	14.89	29.63
2	2063.00	40.86 AV	54.00	-13.14	1.06 H	121	11.23	29.63
3	*2437.00	92.08 PK			1.04 H	255	60.91	31.17
3	*2437.00	88.69 AV			1.04 H	255	57.52	31.17
4	4874.00	50.23 PK	74.00	-23.77	1.00 H	300	13.69	36.54
4	4874.00	47.85 AV	54.00	-6.15	1.00 H	300	11.31	36.54

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	1600.00	44.90 PK	74.00	-29.10	1.15 V	110	16.94	27.96
1	1600.00	42.62 AV	54.00	-11.38	1.15 V	110	14.66	27.96
2	2063.00	44.21 PK	74.00	-29.79	1.11 V	123	14.58	29.63
2	2063.00	41.20 AV	54.00	-12.80	1.11 V	123	11.57	29.63
3	*2437.00	104.86 PK			1.00 V	256	73.69	31.17
3	*2437.00	101.75 AV			1.00 V	256	70.58	31.17
4	4874.00	49.96 PK	74.00	-24.04	1.28 V	10	13.42	36.54
4	4874.00	45.83 AV	54.00	-8.17	1.28 V	10	9.29	36.54

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	D

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	1200.00	44.30 PK	74.00	-29.70	1.21 H	350	17.31	26.99
1	1200.00	39.58 AV	54.00	-14.42	1.21 H	350	12.59	26.99
2	2088.00	44.86 PK	74.00	-29.14	1.04 H	123	15.11	29.75
2	2088.00	41.15 AV	54.00	-12.85	1.04 H	123	11.40	29.75
3	*2462.00	91.28 PK			1.27 H	250	60.00	31.28
3	*2462.00	88.54 AV			1.27 H	250	57.26	31.28
4	2483.50	51.14 PK	74.00	-22.86	1.27 H	250	19.77	31.37
4	2483.50	43.90 AV	54.00	-10.10	1.27 H	250	12.53	31.37
5	4924.00	51.20 PK	74.00	-22.80	1.00 H	300	14.54	36.66
5	4924.00	47.20 AV	54.00	-6.80	1.00 H	300	10.54	36.66

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	1600.00	44.96 PK	74.00	-29.04	1.20 V	100	17.00	27.96
1	1600.00	42.83 AV	54.00	-11.17	1.20 V	100	14.87	27.96
2	2088.00	44.25 PK	74.00	-29.75	1.20 V	256	14.50	29.75
2	2088.00	41.36 AV	54.00	-12.64	1.20 V	256	11.61	29.75
3	*2462.00	104.35 PK			1.18 V	227	73.07	31.28
3	*2462.00	101.29 AV			1.18 V	227	70.01	31.28
4	2483.50	53.13 PK	74.00	-20.87	1.18 V	227	21.76	31.37
4	2483.50	44.22 AV	54.00	-9.78	1.18 V	227	12.85	31.37
5	4924.00	50.20 PK	74.00	-23.80	1.28 V	50	13.54	36.66
5	4924.00	45.48 AV	54.00	-8.52	1.28 V	50	8.82	36.66

- 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.
 5. “ * ” : Fundamental frequency

802.11g OFDM modulation (3dBi antenna)

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	1200.00	43.27 PK	74.00	-30.73	1.12 H	270	16.26	27.01
1	1200.00	40.25 AV	54.00	-13.75	1.12 H	270	13.24	27.01
2	2038.00	45.17 PK	74.00	-28.83	1.12 H	320	14.52	30.65
2	2038.00	43.08 AV	54.00	-10.92	1.12 H	320	12.43	30.65
3	2390.00	47.17 PK	74.00	-26.83	1.04 H	120	15.37	31.80
3	2390.00	31.97 AV	54.00	-22.03	1.04 H	120	0.17	31.80
4	*2412.00	91.17 PK			1.04 H	120	59.30	31.87
4	*2412.00	81.97 AV			1.04 H	120	50.10	31.87
5	4824.00	50.33 PK	74.00	-23.67	1.08 H	246	12.21	38.11
5	4824.00	37.10 AV	54.00	-16.90	1.08 H	246	-1.02	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	1200.00	43.28 PK	74.00	-30.72	1.15 V	245	16.27	27.01
1	1200.00	40.15 AV	54.00	-13.85	1.15 V	245	13.14	27.01
2	2038.00	45.82 PK	74.00	-28.18	1.12 V	260	15.17	30.65
2	2038.00	42.70 AV	54.00	-11.30	1.12 V	260	12.05	30.65
3	2390.00	55.31 PK	74.00	-18.69	1.11 V	303	23.51	31.80
3	2390.00	46.60 AV	54.00	-7.40	1.11 V	303	14.80	31.80
4	*2412.00	105.31 PK			1.11 V	303	73.44	31.87
4	*2412.00	96.60 AV			1.11 V	303	64.73	31.87
5	4824.00	47.15 PK	74.00	-26.85	1.21 V	168	9.03	38.11
5	4824.00	35.75 AV	54.00	-18.25	1.21 V	168	-2.37	38.11

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	1200.00	41.22 PK	74.00	-32.78	1.00 H	180	14.21	27.01
1	1200.00	40.27 AV	54.00	-13.73	1.00 H	180	13.26	27.01
2	2063.00	47.25 PK	74.00	-26.75	1.00 H	350	16.56	30.69
2	2063.00	44.05 AV	54.00	-9.95	1.00 H	350	13.36	30.69
3	*2437.00	94.91 PK			1.08 H	203	62.96	31.95
3	*2437.00	85.87 AV			1.08 H	203	53.92	31.95
4	4874.00	49.24 PK	74.00	-24.76	1.01 H	150	10.96	38.28
4	4874.00	36.85 AV	54.00	-17.15	1.01 H	150	-1.43	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	1600.00	42.28 PK	74.00	-31.72	1.12 V	200	13.65	28.63
1	1600.00	40.16 AV	54.00	-13.84	1.12 V	200	11.53	28.63
2	2063.00	45.89 PK	74.00	-28.11	1.14 V	204	15.20	30.69
2	2063.00	43.68 AV	54.00	-10.32	1.14 V	204	12.99	30.69
3	*2437.00	106.23 PK			1.10 V	6	74.28	31.95
3	*2437.00	97.21 AV			1.10 V	6	65.26	31.95
4	4874.00	50.16 PK	74.00	-23.84	1.04 V	250	11.88	38.28
4	4874.00	37.25 AV	54.00	-16.75	1.04 V	250	-1.03	38.28

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

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	1200.00	43.59 PK	74.00	-30.41	1.00 H	54	16.58	27.01
1	1200.00	39.86 AV	54.00	-14.14	1.00 H	54	12.85	27.01
2	2088.00	48.70 PK	74.00	-25.30	1.05 H	100	17.97	30.73
2	2088.00	44.38 AV	54.00	-9.62	1.05 H	100	13.65	30.73
3	*2462.00	94.99 PK			1.24 H	251	62.97	32.02
3	*2462.00	86.31 AV			1.24 H	251	54.29	32.02
4	2483.50	44.99 PK	74.00	-29.01	1.24 H	251	12.90	32.09
4	2483.50	36.31 AV	54.00	-17.69	1.24 H	251	4.22	32.09
5	4924.00	49.24 PK	74.00	-24.76	1.01 H	360	10.75	38.49
5	4924.00	36.02 AV	54.00	-17.98	1.01 H	360	-2.47	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	1600.00	44.07 PK	74.00	-29.93	1.01 V	147	15.44	28.63
1	1600.00	41.68 AV	54.00	-12.32	1.01 V	147	13.05	28.63
2	2088.00	48.25 PK	74.00	-25.75	1.21 V	168	17.52	30.73
2	2088.00	44.39 AV	54.00	-9.61	1.21 V	168	13.66	30.73
3	*2437.00	106.42 PK			1.11 V	1	74.47	31.95
3	*2437.00	97.44 AV			1.11 V	1	65.49	31.95
4	2483.50	56.42 PK	74.00	-17.58	1.11 V	1	24.33	32.09
4	2483.50	47.44 AV	54.00	-6.56	1.11 V	1	15.35	32.09
5	4924.00	50.38 PK	74.00	-23.62	1.04 V	54	11.89	38.49
5	4924.00	38.01 AV	54.00	-15.99	1.04 V	54	-0.48	38.49

- 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.
 5. “ * ” : Fundamental frequency

802.11g OFDM modulation (5dBi antenna)

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	1200.00	46.03 PK	74.00	-27.97	1.12 H	250	19.02	27.01
1	1200.00	42.58 AV	54.00	-11.42	1.12 H	250	15.57	27.01
2	2038.00	47.10 PK	74.00	-26.90	1.00 H	250	16.45	30.65
2	2038.00	44.50 AV	54.00	-9.50	1.00 H	250	13.85	30.65
3	2390.00	42.49 PK	74.00	-31.51	1.08 H	337	10.69	31.80
3	2390.00	33.47 AV	54.00	-20.53	1.08 H	337	1.67	31.80
4	*2412.00	93.41 PK			1.08 H	337	61.54	31.87
4	*2412.00	84.39 AV			1.08 H	337	52.52	31.87
5	4824.00	49.55 PK	74.00	-24.45	1.00 H	190	11.43	38.11
5	4824.00	36.70 AV	54.00	-17.30	1.00 H	190	-1.42	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	1600.00	45.28 PK	74.00	-28.72	1.20 V	300	16.65	28.63
1	1600.00	42.80 AV	54.00	-11.20	1.20 V	300	14.17	28.63
2	2038.00	47.89 PK	74.00	-26.11	1.15 V	250	17.24	30.65
2	2038.00	44.75 AV	54.00	-9.25	1.15 V	250	14.10	30.65
3	2390.00	55.27 PK	74.00	-18.73	1.13 V	174	23.47	31.80
3	2390.00	46.04 AV	54.00	-7.96	1.13 V	174	14.24	31.80
4	*2412.00	106.19 PK			1.13 V	174	74.32	31.87
4	*2412.00	96.96 AV			1.13 V	174	65.09	31.87
5	4824.00	48.74 PK	74.00	-25.26	1.18 V	187	10.62	38.11
5	4824.00	35.72 AV	54.00	-18.28	1.18 V	187	-2.40	38.11

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	1200.00	44.21 PK	74.00	-29.79	1.00 H	350	17.20	27.01
1	1200.00	41.53 AV	54.00	-12.47	1.00 H	350	14.52	27.01
2	2063.00	47.68 PK	74.00	-26.32	1.00 H	340	16.99	30.69
2	2063.00	44.01 AV	54.00	-9.99	1.00 H	340	13.32	30.69
3	*2437.00	91.22 PK			1.10 H	50	59.27	31.95
3	*2437.00	82.37 AV			1.10 H	50	50.42	31.95
4	4874.00	49.88 PK	74.00	-24.12	1.01 H	150	11.60	38.28
4	4874.00	37.02 AV	54.00	-16.98	1.01 H	150	-1.26	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	1600.00	44.85 PK	74.00	-29.15	1.14 V	200	16.22	28.63
1	1600.00	41.78 AV	54.00	-12.22	1.14 V	200	13.15	28.63
2	2063.00	47.39 PK	74.00	-26.61	1.10 V	200	16.70	30.69
2	2063.00	45.63 AV	54.00	-8.37	1.10 V	200	14.94	30.69
3	*2437.00	107.30 PK			1.10 V	303	75.35	31.95
3	*2437.00	98.21 AV			1.10 V	303	66.26	31.95
4	4874.00	46.51 PK	74.00	-27.49	1.23 V	184	8.22	38.28
4	4874.00	35.03 AV	54.00	-18.97	1.23 V	184	-3.26	38.28

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	B

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	1200.00	43.22 PK	74.00	-30.78	1.10 H	125	16.21	27.01
1	1200.00	39.21 AV	54.00	-14.79	1.10 H	125	12.20	27.01
2	2088.00	47.52 PK	74.00	-26.48	1.01 H	180	16.79	30.73
2	2088.00	44.75 AV	54.00	-9.25	1.01 H	180	14.02	30.73
3	*2462.00	91.21 PK			1.00 H	145	59.19	32.02
3	*2462.00	82.64 AV			1.00 H	145	50.62	32.02
4	2483.50	40.49 PK	74.00	-33.51	1.00 H	145	8.40	32.09
4	2483.50	31.92 AV	54.00	-22.08	1.00 H	145	-0.17	32.09
5	4924.00	47.22 PK	74.00	-26.78	1.01 H	185	8.73	38.49
5	4924.00	34.60 AV	54.00	-19.40	1.01 H	185	-3.89	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	1200.00	44.21 PK	74.00	-29.79	1.05 V	140	17.20	27.01
1	1200.00	41.07 AV	54.00	-12.93	1.05 V	140	14.06	27.01
2	2088.00	48.05 PK	74.00	-25.95	1.14 V	120	17.32	30.73
2	2088.00	45.30 AV	54.00	-8.70	1.14 V	120	14.57	30.73
3	*2462.00	106.03 PK			1.10 V	138	74.01	32.02
3	*2462.00	96.95 AV			1.10 V	138	64.93	32.02
4	2483.50	55.31 PK	74.00	-18.69	1.10 V	138	23.22	32.09
4	2483.50	46.23 AV	54.00	-7.77	1.10 V	138	14.14	32.09
5	4924.00	50.01 PK	74.00	-23.99	1.10 V	245	11.52	38.49
5	4924.00	37.21 AV	54.00	-16.79	1.10 V	245	-1.28	38.49

- 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.
 5. “ * ” : Fundamental frequency

802.11g OFDM modulation (7dBi antenna)

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	c

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	1200.00	44.92 PK	74.00	-29.08	1.15 H	276	17.91	27.01
1	1200.00	41.35 AV	54.00	-12.65	1.15 H	276	14.34	27.01
2	2390.00	55.10 PK	74.00	-18.90	1.07 H	339	23.30	31.80
2	2390.00	45.12 AV	54.00	-8.88	1.07 H	339	13.32	31.80
3	*2412.00	94.51 PK			1.07 H	339	62.64	31.87
3	*2412.00	85.34 AV			1.07 H	339	53.47	31.87
4	4824.00	47.94 PK	74.00	-26.06	1.09 H	193	9.82	38.11
4	4824.00	35.80 AV	54.00	-18.20	1.09 H	193	-2.32	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	1466.00	44.55 PK	74.00	-29.45	1.20 V	360	16.61	27.94
1	1466.00	41.40 AV	54.00	-12.60	1.20 V	360	13.46	27.94
2	2038.00	46.91 PK	74.00	-27.09	1.18 V	10	16.26	30.65
2	2038.00	43.47 AV	54.00	-10.53	1.18 V	10	12.82	30.65
3	2390.00	54.30 PK	74.00	-19.70	1.00 V	315	22.50	31.80
3	2390.00	46.01 AV	54.00	-7.99	1.00 V	315	14.21	31.80
4	*2412.00	108.52 PK			1.00 V	315	76.65	31.87
4	*2412.00	99.65 AV			1.00 V	315	67.78	31.87
5	4824.00	49.78 PK	74.00	-24.22	1.17 V	5	11.67	38.11
5	4824.00	37.28 AV	54.00	-16.72	1.17 V	5	-0.83	38.11

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	C

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	1333.00	42.74 PK	74.00	-31.26	1.00 H	281	15.26	27.48
1	1333.00	39.47 AV	54.00	-14.53	1.00 H	281	11.99	27.48
2	2063.00	46.27 PK	74.00	-27.73	1.00 H	280	15.58	30.69
2	2063.00	43.07 AV	54.00	-10.93	1.00 H	280	12.38	30.69
3	*2437.00	93.31 PK			1.11 H	150	61.36	31.95
3	*2437.00	84.17 AV			1.11 H	150	52.22	31.95
4	4874.00	48.73 PK	74.00	-25.27	1.00 H	196	10.44	38.28
4	4874.00	35.90 AV	54.00	-18.10	1.00 H	196	-2.39	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	1600.00	43.97 PK	74.00	-30.03	1.15 V	204	15.34	28.63
1	1600.00	40.76 AV	54.00	-13.24	1.15 V	204	12.13	28.63
2	2063.00	46.91 PK	74.00	-27.09	1.12 V	208	16.22	30.69
2	2063.00	44.21 AV	54.00	-9.79	1.12 V	208	13.52	30.69
3	*2437.00	109.10 PK			1.20 V	333	77.15	31.95
3	*2437.00	100.21 AV			1.20 V	333	68.26	31.95
4	4874.00	49.76 PK	74.00	-24.24	1.03 V	360	11.47	38.28
4	4874.00	36.62 AV	54.00	-17.38	1.03 V	360	-1.67	38.28

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	C

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	1200.00	42.31 PK	74.00	-31.69	1.23 H	203	15.30	27.01
1	1200.00	38.32 AV	54.00	-15.68	1.23 H	203	11.31	27.01
2	2088.00	47.01 PK	74.00	-26.99	1.01 H	189	16.28	30.73
2	2088.00	43.52 AV	54.00	-10.48	1.01 H	189	12.79	30.73
3	*2462.00	93.24 PK			1.40 H	147	61.22	32.02
3	*2462.00	84.17 AV			1.40 H	147	52.15	32.02
4	2483.50	54.10 PK	74.00	-19.90	1.40 H	147	22.01	32.09
4	2483.50	45.11 AV	54.00	-8.89	1.40 H	147	13.02	32.09
5	4924.00	47.62 PK	74.00	-26.38	1.03 H	328	9.13	38.49
5	4924.00	34.47 AV	54.00	-19.53	1.03 H	328	-4.02	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	1200.00	43.79 PK	74.00	-30.21	1.00 V	207	16.78	27.01
1	1200.00	40.38 AV	54.00	-13.62	1.00 V	207	13.37	27.01
2	2088.00	47.51 PK	74.00	-26.49	1.05 V	360	16.78	30.73
2	2088.00	44.91 AV	54.00	-9.09	1.05 V	360	14.18	30.73
3	*2462.00	108.14 PK			1.14 V	348	76.12	32.02
3	*2462.00	99.41 AV			1.14 V	348	67.39	32.02
4	2483.50	54.82 PK	74.00	-19.18	1.14 V	348	22.73	32.09
4	2483.50	45.86 AV	54.00	-8.14	1.14 V	348	13.77	32.09
5	4924.00	49.96 PK	74.00	-24.04	1.00 V	1	11.47	38.49
5	4924.00	36.86 AV	54.00	-17.14	1.00 V	1	-1.63	38.49

- 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.
 5. “ * ” : Fundamental frequency

802.11g OFDM modulation (7dBi antenna with cardle)

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	D

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	1200.00	45.15 PK	74.00	-28.85	1.21 H	26	18.16	26.99
1	1200.00	41.57 AV	54.00	-12.43	1.21 H	26	14.58	26.99
2	2038.00	43.45 PK	74.00	-30.55	1.28 H	94	13.94	29.51
2	2038.00	39.70 AV	54.00	-14.30	1.28 H	94	10.19	29.51
3	2390.00	51.74 PK	74.00	-22.26	1.08 H	286	20.77	30.97
3	2390.00	43.42 AV	54.00	-10.58	1.08 H	286	12.45	30.97
4	*2412.00	89.94 PK			1.08 H	286	58.88	31.06
4	*2412.00	80.79 AV			1.08 H	286	49.73	31.06

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	1600.00	46.21 PK	74.00	-27.79	1.02 V	260	18.25	27.96
1	1600.00	43.94 AV	54.00	-10.06	1.02 V	260	15.98	27.96
2	2038.00	44.03 PK	74.00	-29.97	1.31 V	189	14.52	29.51
2	2038.00	40.18 AV	54.00	-13.82	1.31 V	189	10.67	29.51
3	2390.00	53.72 PK	74.00	-20.28	1.00 V	308	22.75	30.97
3	2390.00	43.24 AV	54.00	-10.76	1.00 V	308	12.27	30.97
4	*2412.00	104.81 PK			1.00 V	308	73.75	31.06
4	*2412.00	96.36 AV			1.00 V	308	65.30	31.06
5	4824.00	49.78 PK	74.00	-24.22	1.02 V	179	13.35	36.43
5	4824.00	35.78 AV	54.00	-18.22	1.02 V	179	-0.65	36.43

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	D

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	1200.00	44.01 PK	74.00	-29.99	1.23 H	132	17.02	26.99
1	1200.00	39.71 AV	54.00	-14.29	1.23 H	132	12.72	26.99
2	2063.00	42.50 PK	74.00	-31.50	1.08 H	53	12.87	29.63
2	2063.00	38.54 AV	54.00	-15.46	1.08 H	53	8.91	29.63
3	*2437.00	91.68 PK			1.04 H	250	60.51	31.17
3	*2437.00	83.05 AV			1.04 H	250	51.88	31.17

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	1600.00	45.88 PK	74.00	-28.12	1.17 V	93	17.92	27.96
1	1600.00	43.28 AV	54.00	-10.72	1.17 V	93	15.32	27.96
2	2063.00	44.79 PK	74.00	-29.21	1.04 V	52	15.16	29.63
2	2063.00	41.94 AV	54.00	-12.06	1.04 V	52	12.31	29.63
3	*2437.00	105.79 PK			1.14 V	51	74.62	31.17
3	*2437.00	97.15 AV			1.14 V	51	65.98	31.17
4	4874.00	48.93 PK	74.00	-25.07	1.08 V	350	12.39	36.54
4	4874.00	35.62 AV	54.00	-18.38	1.08 V	350	-0.92	36.54

- 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.
 5. “ * ” : Fundamental frequency

EUT	Wireless-G Access Point with POE	MEASUREMENT DETAIL	
MODEL	WAP54GP	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24deg. C, 55%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	D

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	1200.00	42.93 PK	74.00	-31.07	1.26 H	153	15.94	26.99
1	1200.00	39.09 AV	54.00	-14.91	1.26 H	153	12.10	26.99
2	2088.00	41.76 PK	74.00	-32.24	1.00 H	153	12.01	29.75
2	2088.00	37.88 AV	54.00	-16.12	1.00 H	153	8.13	29.75
3	*2462.00	90.69 PK			1.05 H	248	59.41	31.28
3	*2462.00	81.66 AV			1.05 H	248	50.38	31.28
4	2483.50	52.18 PK	74.00	-21.82	1.05 H	248	20.81	31.37
4	2483.50	43.80 AV	54.00	-10.20	1.05 H	248	12.43	31.37

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	1600.00	45.05 PK	74.00	-28.95	1.12 V	94	17.09	27.96
1	1600.00	42.70 AV	54.00	-11.30	1.12 V	94	14.74	27.96
2	2088.00	45.24 PK	74.00	-28.76	1.06 V	90	15.49	29.75
2	2088.00	42.04 AV	54.00	-11.96	1.06 V	90	12.29	29.75
3	*2462.00	103.28 PK			1.19 V	224	72.00	31.28
3	*2462.00	95.17 AV			1.19 V	224	63.89	31.28
4	2483.50	52.73 PK	74.00	-21.27	1.19 V	224	21.36	31.37
4	2483.50	44.34 AV	54.00	-9.66	1.19 V	224	12.97	31.37
5	4924.00	47.86 PK	74.00	-26.14	1.10 V	360	11.20	36.66
5	4924.00	34.98 AV	54.00	-19.02	1.10 V	360	-1.68	36.66

- 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.
 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	FSEK 30	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.

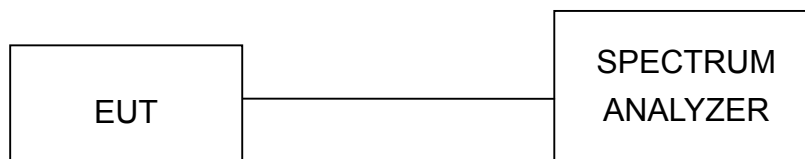
4.3.3 TEST PROCEDURE

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



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.

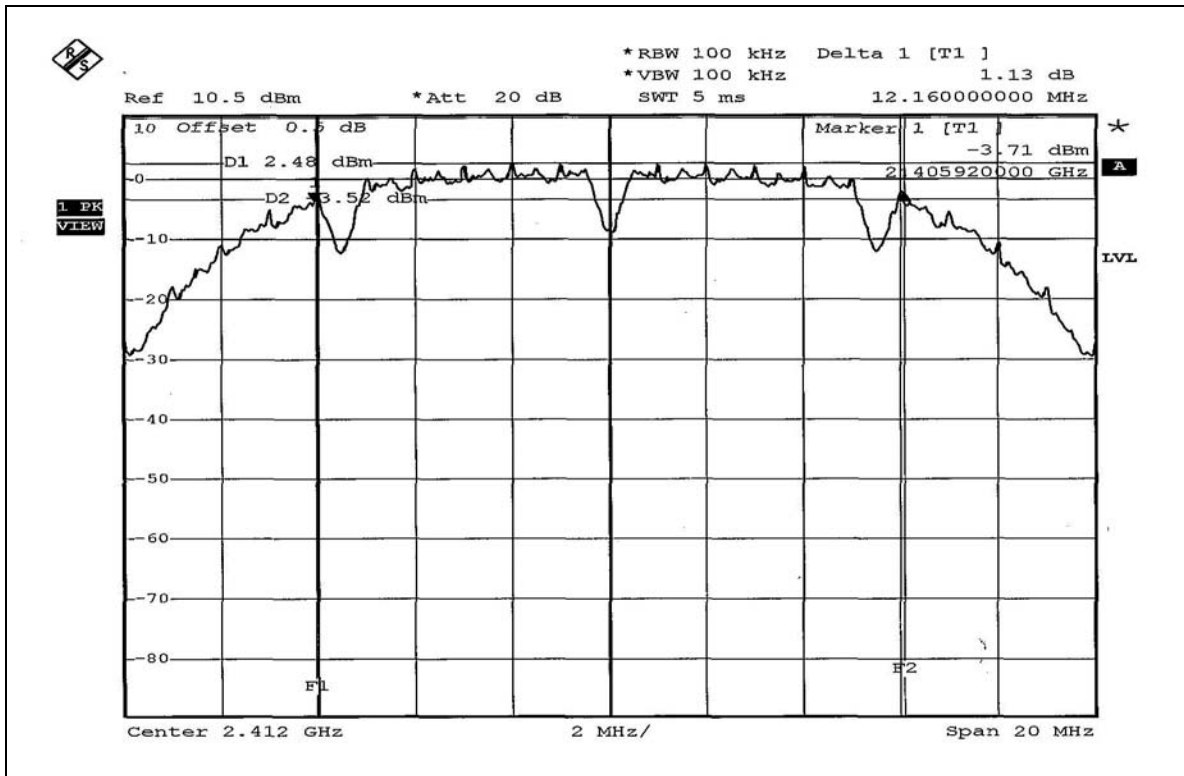
4.3.7 TEST RESULTS

802.11b DSSS modulation

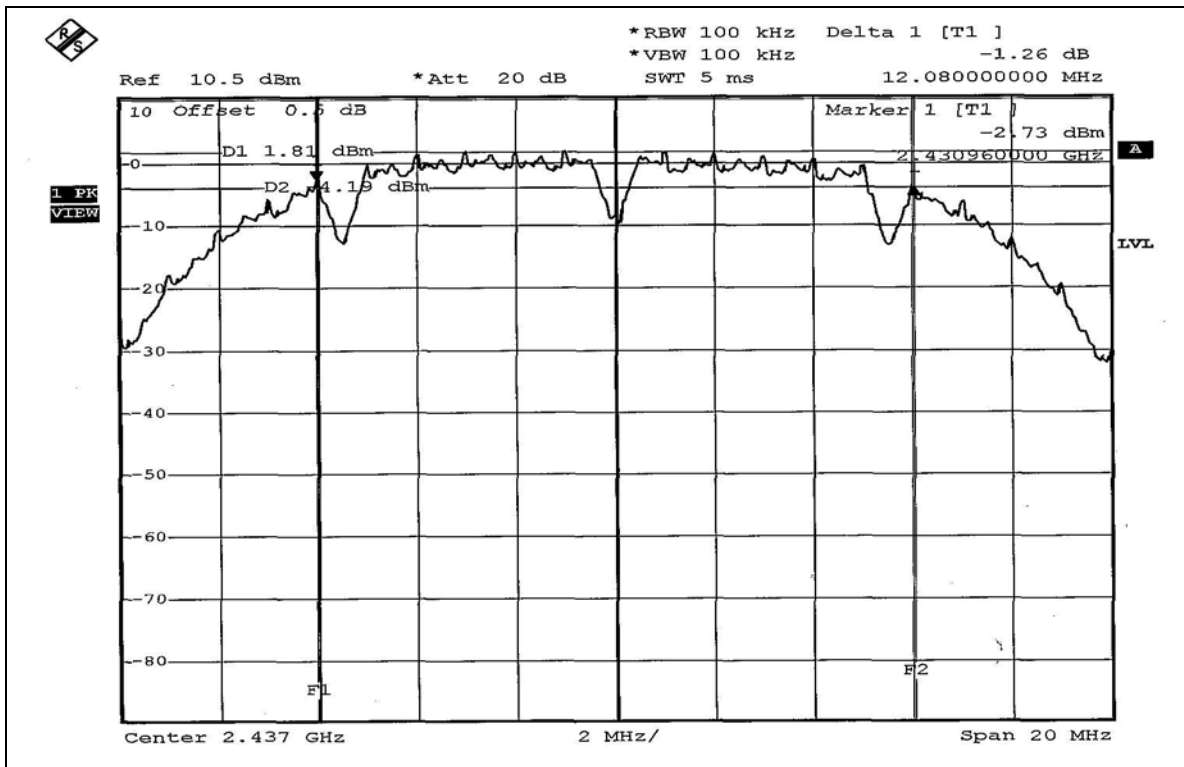
EUT	Wireless-G Access Point with POE	MODEL	WAP54GP
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 56%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.16	0.5	PASS
6	2437	12.08	0.5	PASS
11	2462	12.20	0.5	PASS

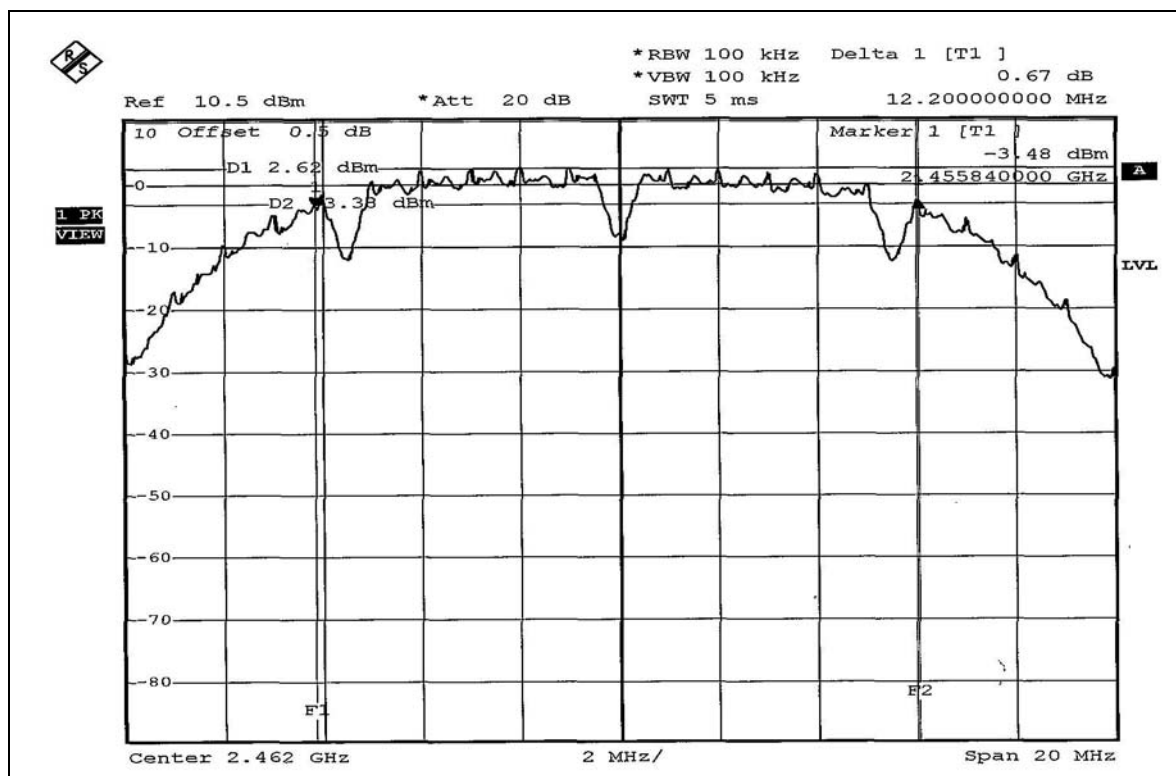
CH1



CH6



CH11

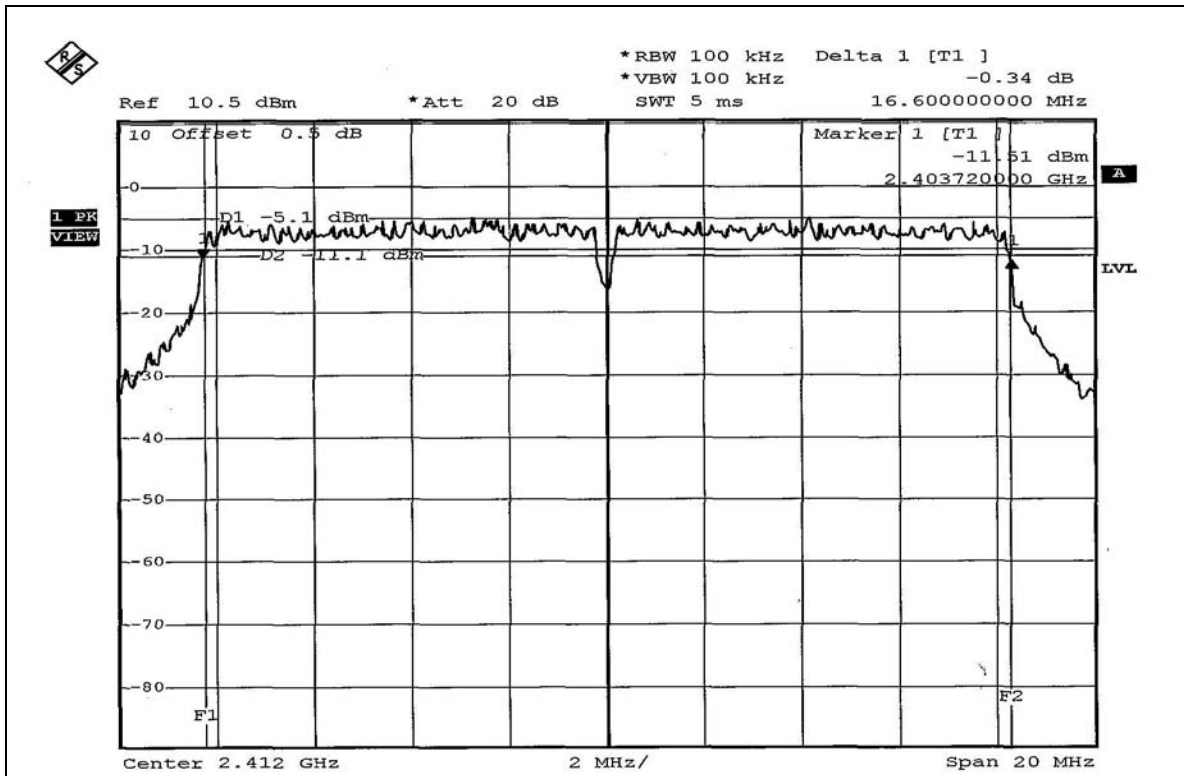


802.11g OFDM modulation

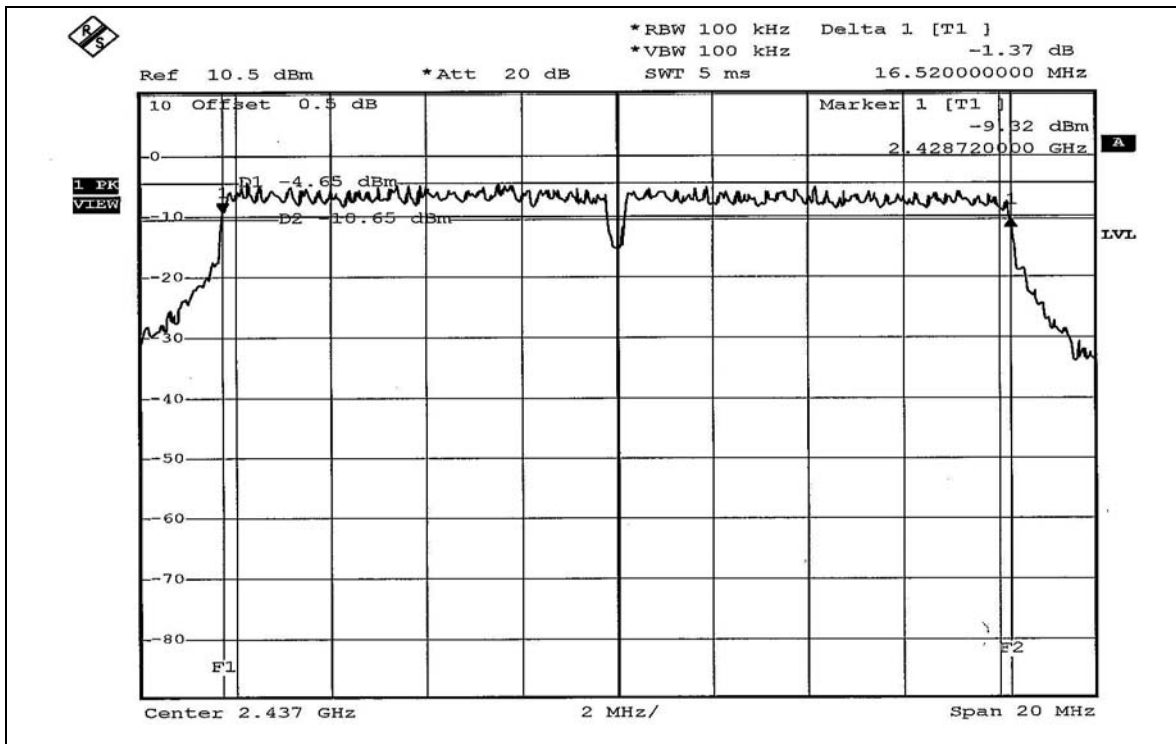
EUT	Wireless-G Access Point with POE	MODEL	WAP54GP
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 56%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.60	0.5	PASS
6	2437	16.52	0.5	PASS
11	2462	16.52	0.5	PASS

CH1



CH6



10 Offset 0.5 dB

Marker 1 [T1]

-8.27 dBm

2.453720000 GHz

D1 -3.13 dBm

D2 -9.13 dBm

1 PK VIEW

F1

F2

Center 2.462 GHz

2 MHz/

Span 20 MHz

Ref 10.5 dBm

*Att 20 dB

*RBW 100 kHz

*VBW 100 kHz

SWT 5 ms

Delta 1 [T1]

-0.52 dB

16.520000000 MHz

LVL

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 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 06, 2005
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Dec. 07, 2005
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE:

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

4.4.3 TEST PROCEDURES

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

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

802.11b DSSS modulation

EUT	Wireless-G Access Point with POE	MODEL	WAP54GP
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 56%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	20.277	13.07	29	PASS
6	2437	25.468	14.06	29	PASS
11	2462	28.184	14.50	29	PASS

Note: According to 15.247 (b)(4), the maximum antenna gain 7dBi is higher than 6dBi, so the limit of peak power should be reduced by 1dBi.

802.11g OFDM modulation

EUT	Wireless-G Access Point with POE	MODEL	WAP54GP
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 56%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	16.032	12.05	29	PASS
6	2437	15.959	12.03	29	PASS
11	2462	16.106	12.07	29	PASS

Note: According to 15.247 (b)(4), the maximum antenna gain 7dBi is higher than 6dBi, so the limit of peak power should be reduced by 1dBi.

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
R&S 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.

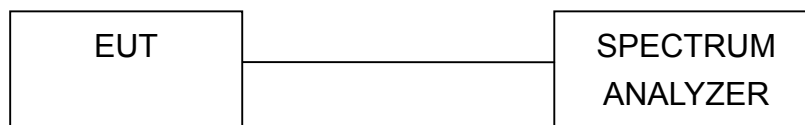
4.5.3 TEST PROCEDURE

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 CONDITION

Same as Item 4.3.6

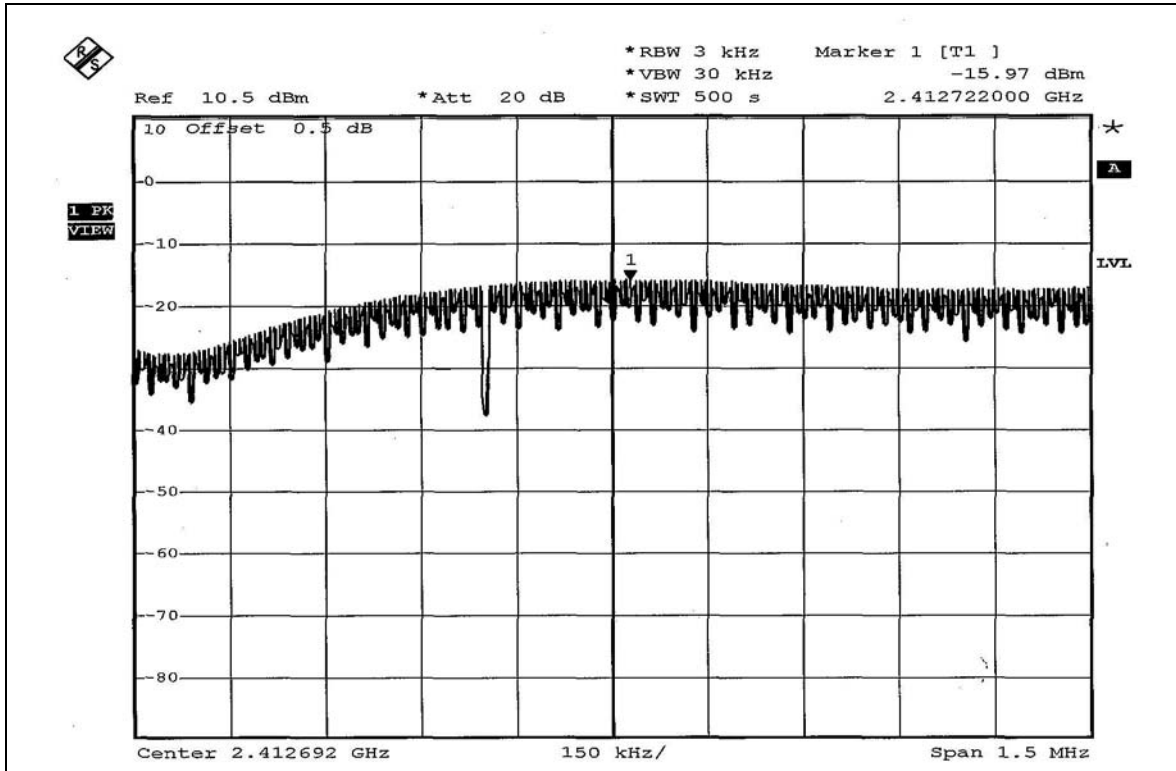
4.5.7 TEST RESULTS

802.11b DSSS modulation

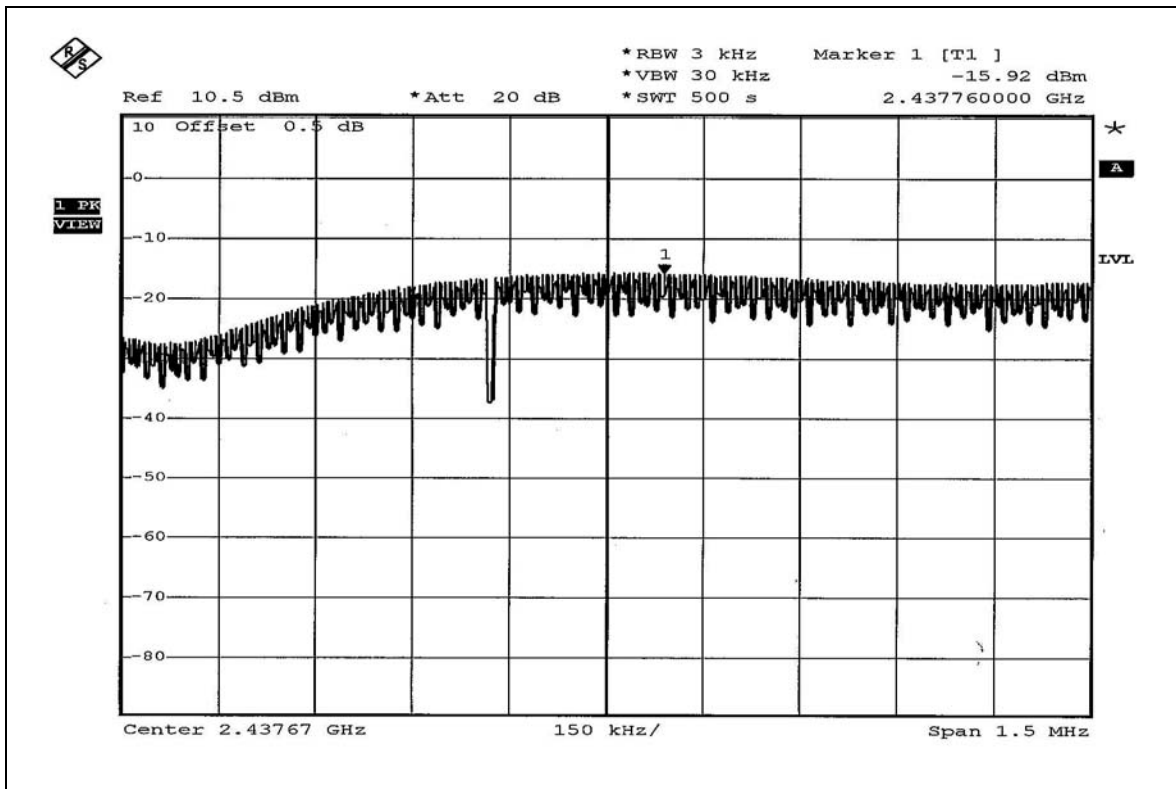
EUT	Wireless-G Access Point with POE	MODEL	WAP54GP
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 56%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-15.97	8	PASS
6	2437	-15.92	8	PASS
11	2462	-15.32	8	PASS

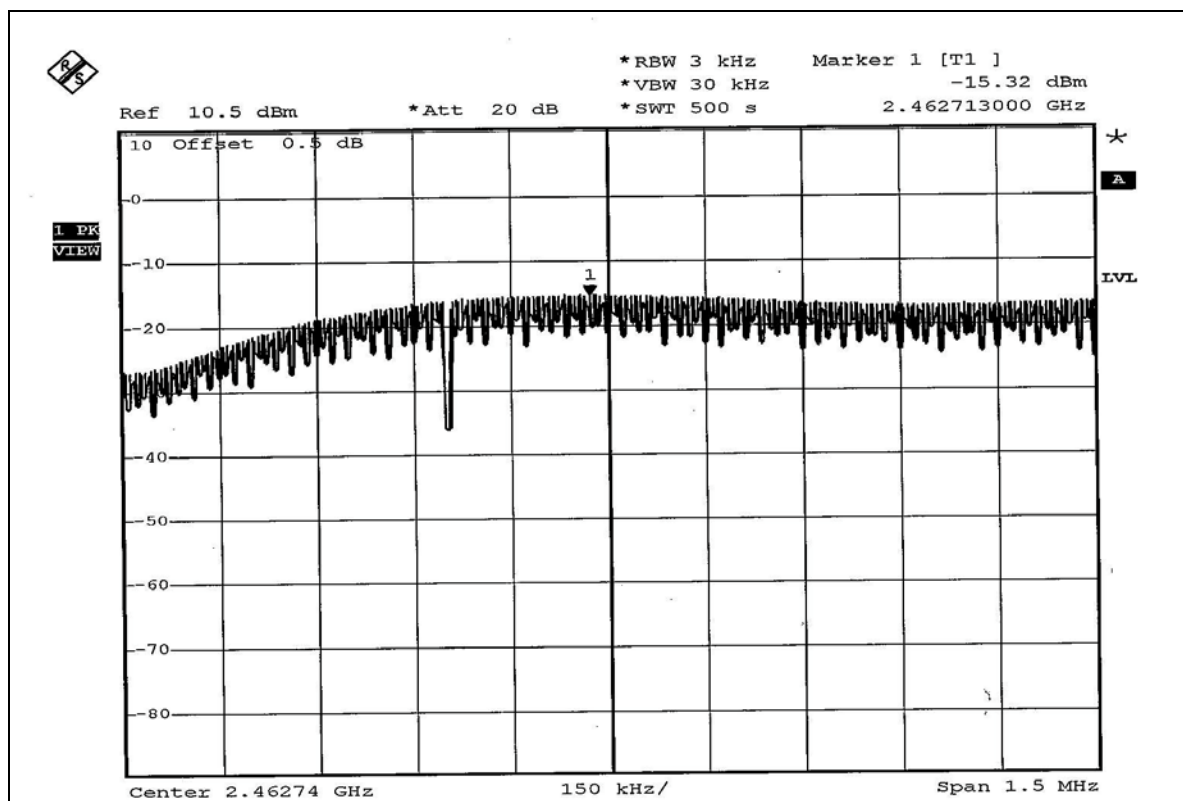
CH1



CH6



CH11

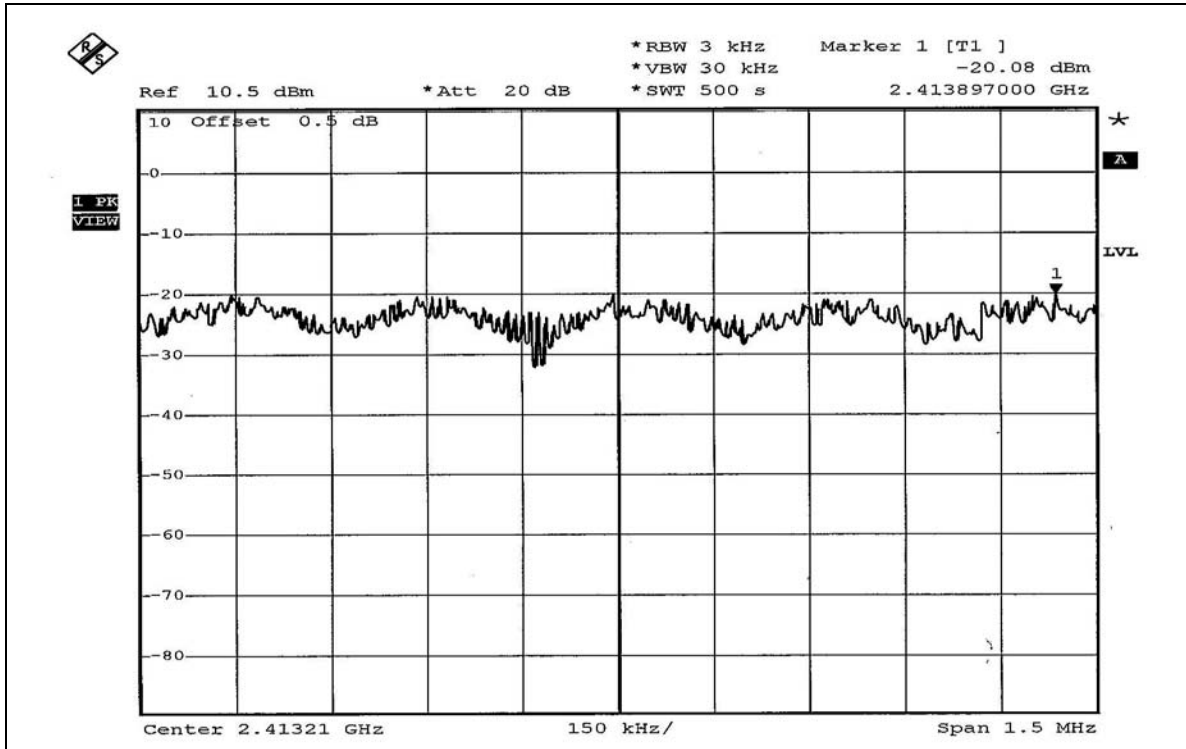


**802.11g OFDM modulation**

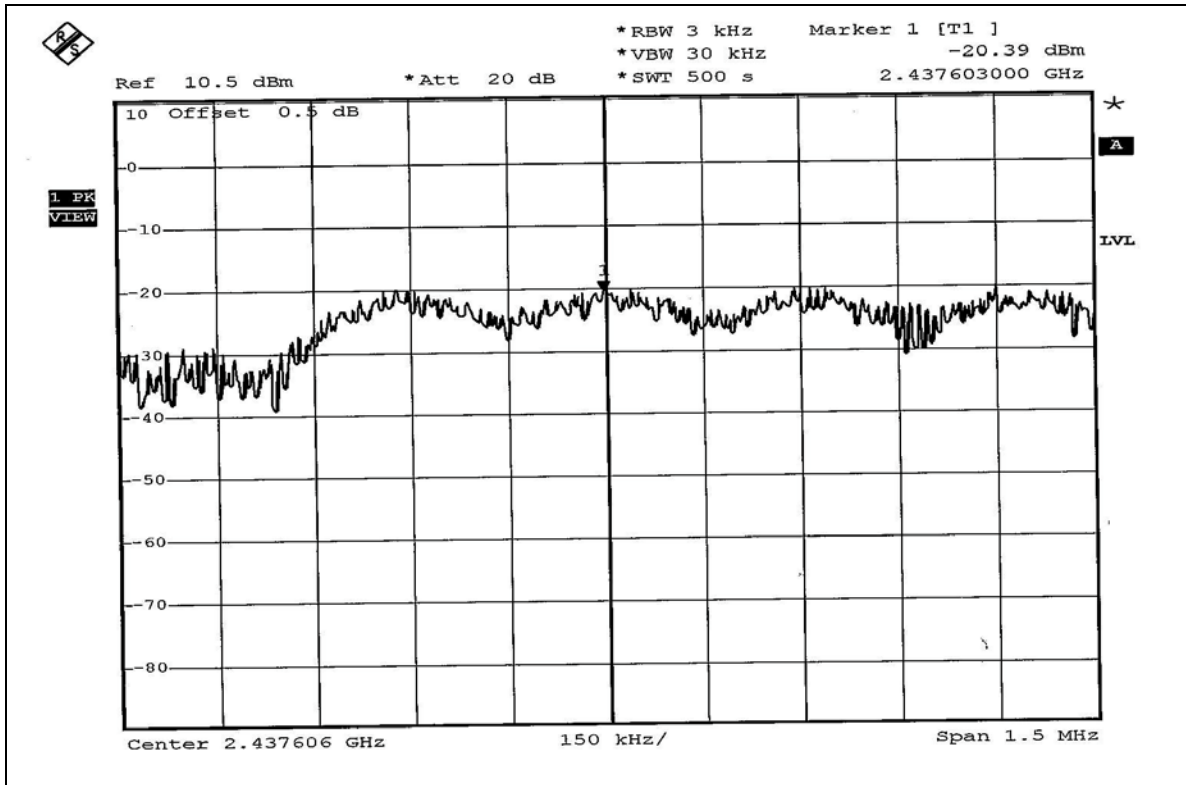
EUT	Wireless-G Access Point with POE	MODEL	WAP54GP
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 56%RH, 991hPa
TESTED BY	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-20.08	8	PASS
6	2437	-20.39	8	PASS
11	2462	-20.13	8	PASS

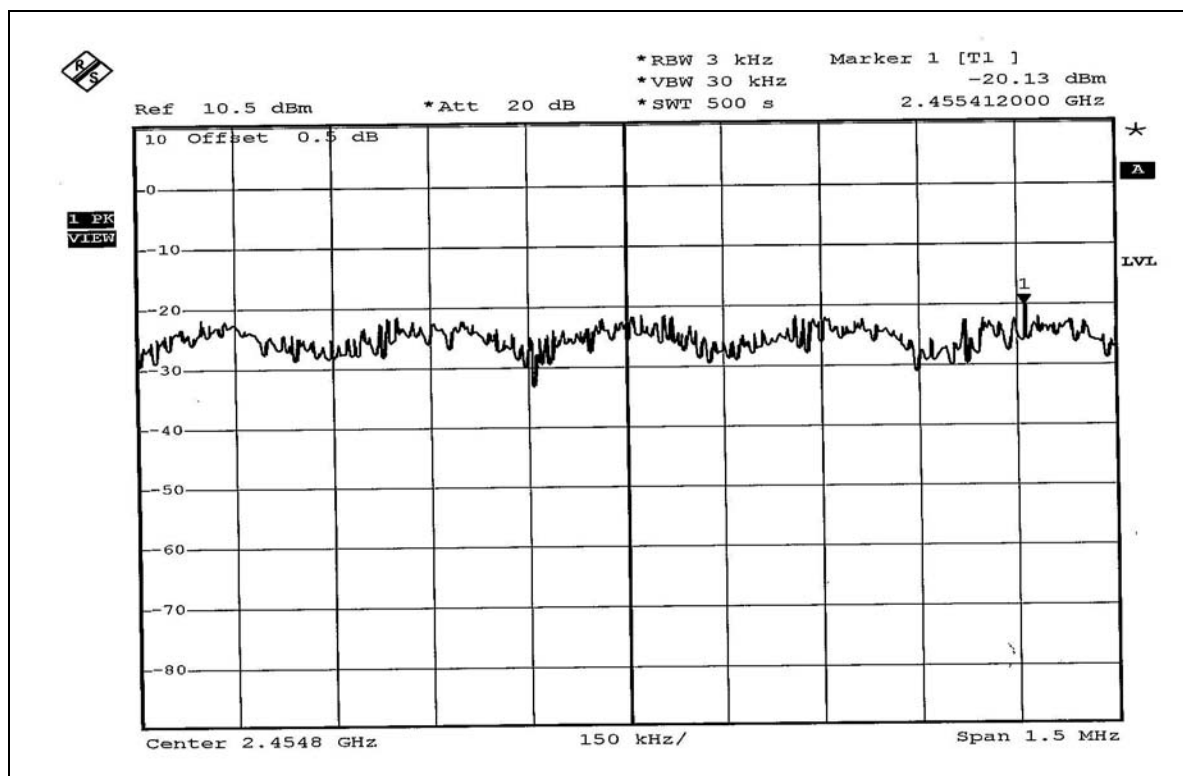
CH1



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
R&S 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.

4.6.3 TEST PROCEDURE

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

The spectrum plots (Peak RBW=VBW=100kHz ; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

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 12 images. D2 line indicates the highest level, and D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(d).

4.6.7 TEST RESULTS

802.11b DSSS modulation

3dBi antenna:

NOTE 1: The band edge emission plot on page 95 show 58.17dBc delta between carrier maximum power and local maximum emission in restrict band (2.3860GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.32dBuV/m (Peak), so the maximum field strength in restrict band is $106.32 - 58.17 = 48.15$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 95 show 61.01dBc delta between carrier maximum power and local maximum emission in restrict band (2.3862GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.03dBuV/m (Average), so the maximum field strength in restrict band is $102.03 - 61.01 = 41.02$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on the page 96 show 52.03dBc delta between carrier maximum power and local maximum emission in restrict band (2.4879GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.05dBuV/m (Peak), so the maximum field strength in restrict band is $108.05 - 52.03 = 56.02$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the page 97 show 57.42dBc delta between carrier maximum power and local maximum emission in restrict band (2.4875GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.61dBuV/m (Average), so the maximum field strength in restrict band is $105.61 - 57.42 = 48.19$ dBuV/m which is under 54dBuV/m limit.

**5dBi antenna:**

NOTE 1: The band edge emission plot on page 95 show 58.17dBc delta between carrier maximum power and local maximum emission in restrict band (2.3860GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 107.48dBuV/m (Peak), so the maximum field strength in restrict band is $107.48 - 58.17 = 49.31$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 95 show 61.01dBc delta between carrier maximum power and local maximum emission in restrict band (2.3862GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 104.05dBuV/m (Average), so the maximum field strength in restrict band is $104.05 - 61.01 = 43.04$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on the page 96 show 52.03dBc delta between carrier maximum power and local maximum emission in restrict band (2.4879GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.51dBuV/m (Peak), so the maximum field strength in restrict band is $108.51 - 52.03 = 56.48$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the page 97 show 57.42dBc delta between carrier maximum power and local maximum emission in restrict band (2.4875GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.57dBuV/m (Average), so the maximum field strength in restrict band is $104.57 - 57.42 = 47.15$ dBuV/m which is under 54dBuV/m limit.

**7dBi antenna:**

NOTE 1: The band edge emission plot on page 95 show 58.17dBc delta between carrier maximum power and local maximum emission in restrict band (2.3860GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 109.41dBuV/m (Peak), so the maximum field strength in restrict band is $109.41 - 58.17 = 51.24$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 95 show 61.01dBc delta between carrier maximum power and local maximum emission in restrict band (2.3862GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.19dBuV/m (Average), so the maximum field strength in restrict band is $106.19 - 61.01 = 45.18$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on the page 96 show 52.03dBc delta between carrier maximum power and local maximum emission in restrict band (2.4879GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 110.53dBuV/m (Peak), so the maximum field strength in restrict band is $110.53 - 52.03 = 58.50$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the page 97 show 57.42dBc delta between carrier maximum power and local maximum emission in restrict band (2.4875GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 107.89dBuV/m (Average), so the maximum field strength in restrict band is $107.89 - 57.42 = 50.47$ dBuV/m which is under 54dBuV/m limit.

**7dBi antenna with cradle:**

NOTE 1: The band edge emission plot on page 95 show 58.17dBc delta between carrier maximum power and local maximum emission in restrict band (2.3860GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 104.40dBuV/m (Peak), so the maximum field strength in restrict band is $104.40 - 58.17 = 46.23$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 95 show 61.01dBc delta between carrier maximum power and local maximum emission in restrict band (2.3862GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 101.41dBuV/m (Average), so the maximum field strength in restrict band is $101.41 - 61.01 = 40.40$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on the page 96 show 52.03dBc delta between carrier maximum power and local maximum emission in restrict band (2.4879GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.35dBuV/m (Peak), so the maximum field strength in restrict band is $104.35 - 52.03 = 52.32$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the page 97 show 57.42dBc delta between carrier maximum power and local maximum emission in restrict band (2.4875GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.29dBuV/m (Average), so the maximum field strength in restrict band is $101.29 - 57.42 = 43.87$ dBuV/m which is under 54dBuV/m limit.

**802.11g OFDM modulation****3dBi antenna:**

NOTE 1: The band edge emission plot on page 98 show 52.91dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.31dBuV/m (Peak), so the maximum field strength in restrict band is $105.31 - 52.91 = 52.40$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 98 show 57.37dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 96.60dBuV/m (Average), so the maximum field strength in restrict band is $96.60 - 57.37 = 39.23$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on page 99 show 52.08dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 106.42dBuV/m (Peak), so the maximum field strength in restrict band is $106.42 - 52.08 = 54.34$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 100 show 55.94dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 97.44dBuV/m (Average), so the maximum field strength in restrict band is $97.44 - 55.94 = 41.50$ dBuV/m which is under 54dBuV/m limit.

**5dBi antenna:**

NOTE 1: The band edge emission plot on page 98 show 52.91dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.19dBuV/m (Peak), so the maximum field strength in restrict band is $106.19 - 52.91 = 53.28$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 98 show 57.37dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 96.96dBuV/m (Average), so the maximum field strength in restrict band is $96.96 - 57.37 = 39.59$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on page 99 show 52.08dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 106.03dBuV/m (Peak), so the maximum field strength in restrict band is $106.03 - 52.08 = 53.95$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 100 show 55.94dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 96.95dBuV/m (Average), so the maximum field strength in restrict band is $96.95 - 55.94 = 41.01$ dBuV/m which is under 54dBuV/m limit.

**7dBi antenna:**

NOTE 1: The band edge emission plot on page 98 show 52.91dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.52dBuV/m (Peak), so the maximum field strength in restrict band is $108.52 - 52.91 = 55.61$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 98 show 57.37dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.65dBuV/m (Average), so the maximum field strength in restrict band is $99.65 - 57.37 = 42.28$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on page 99 show 52.08dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.14dBuV/m (Peak), so the maximum field strength in restrict band is $108.14 - 52.08 = 56.06$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 100 show 55.94dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 99.41dBuV/m (Average), so the maximum field strength in restrict band is $99.41 - 55.94 = 43.47$ dBuV/m which is under 54dBuV/m limit.

**7dBi antenna with cradle:**

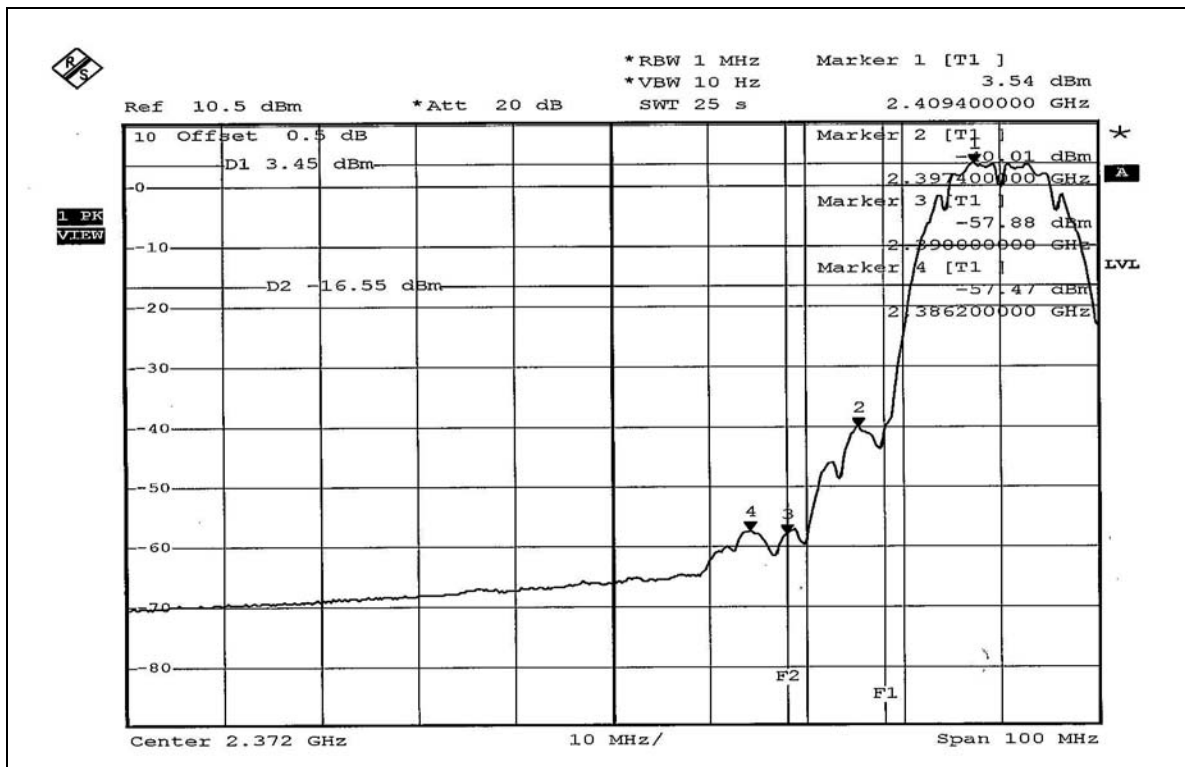
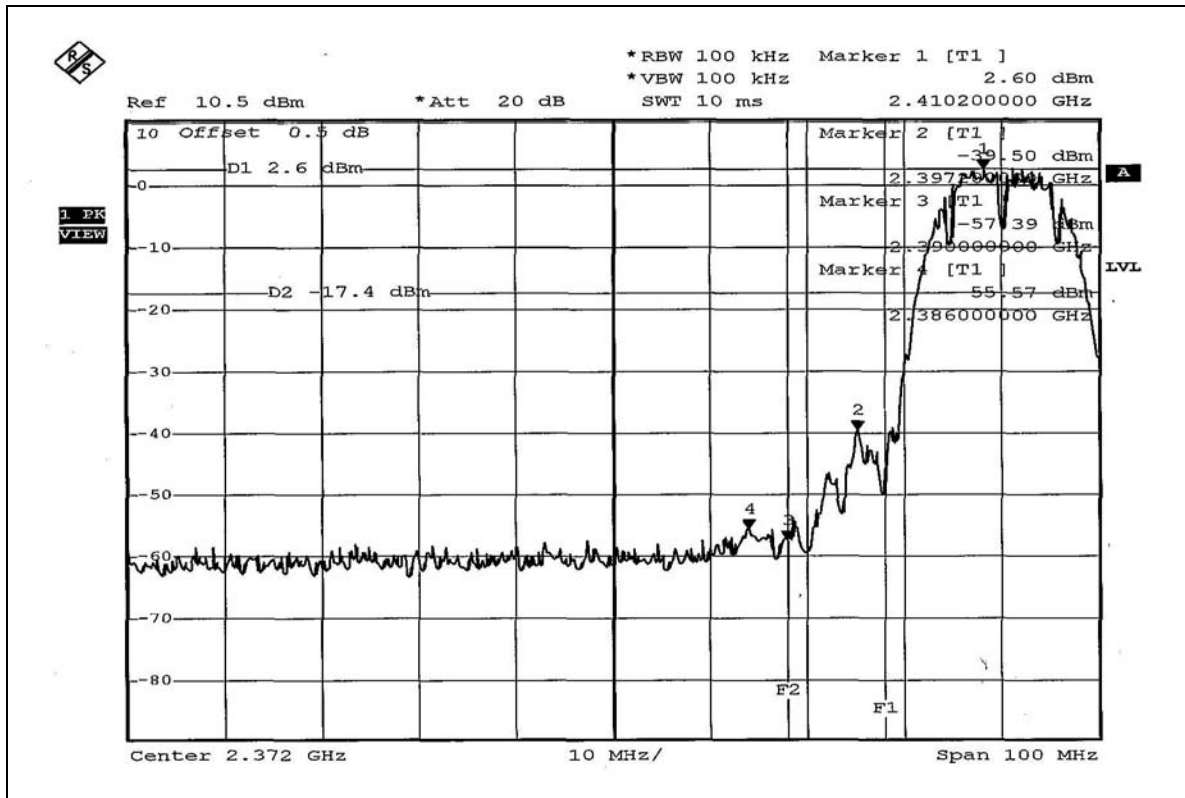
NOTE 1: The band edge emission plot on page 98 show 52.91dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 104.81dBuV/m (Peak), so the maximum field strength in restrict band is $104.81 - 52.91 = 51.90$ dBuV/m which is under 74dBuV/m limit.

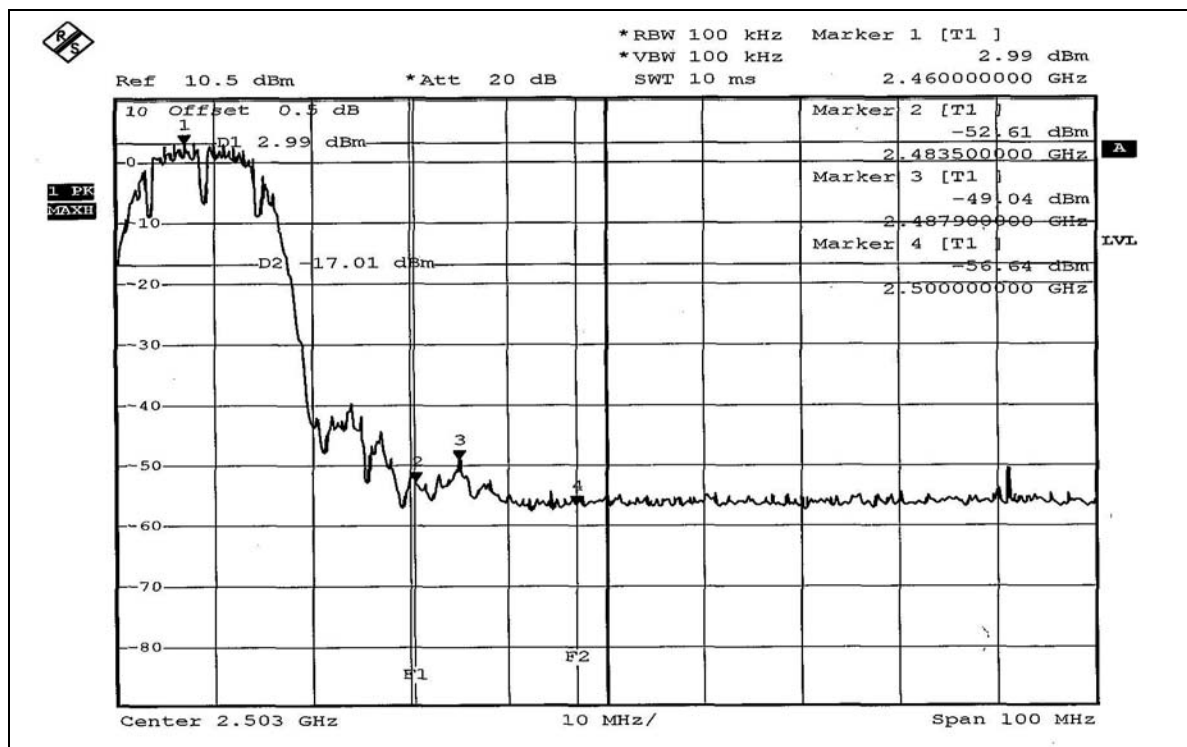
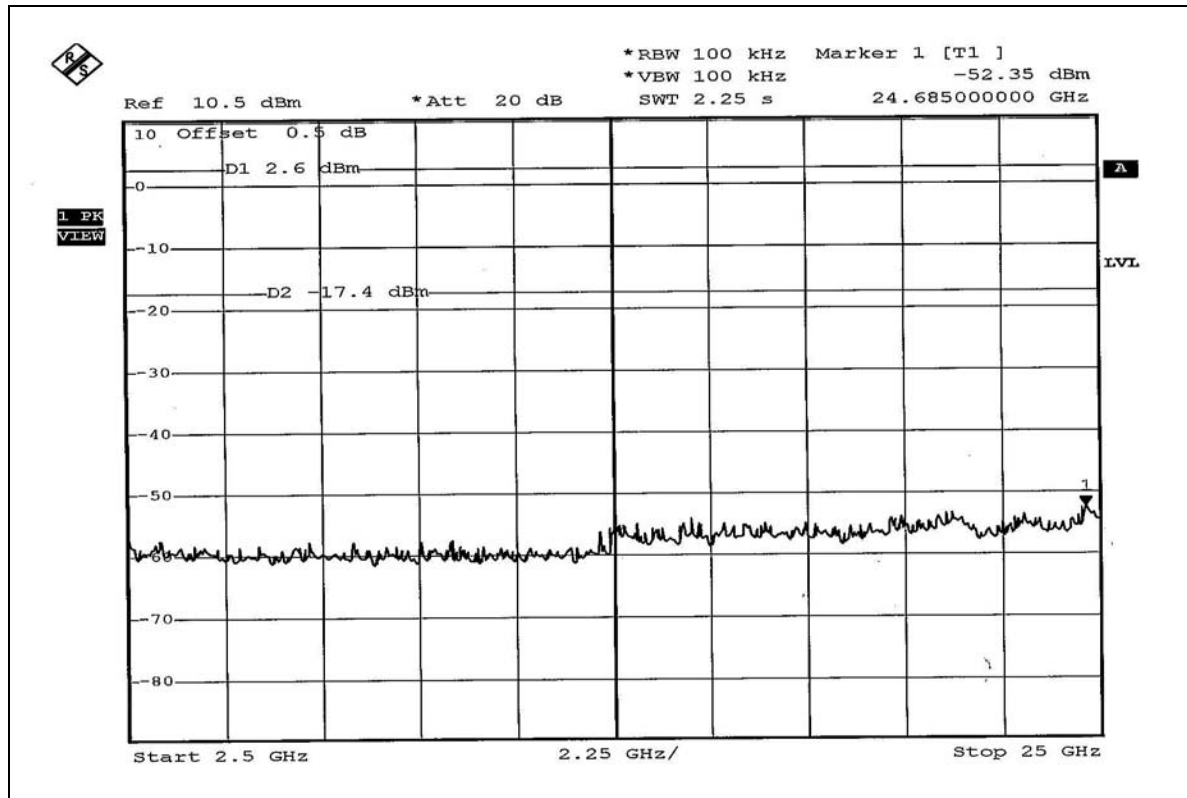
The band edge emission plot on page 98 show 57.37dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 96.36dBuV/m (Average), so the maximum field strength in restrict band is $96.36 - 57.37 = 38.99$ dBuV/m which is under 54dBuV/m limit.

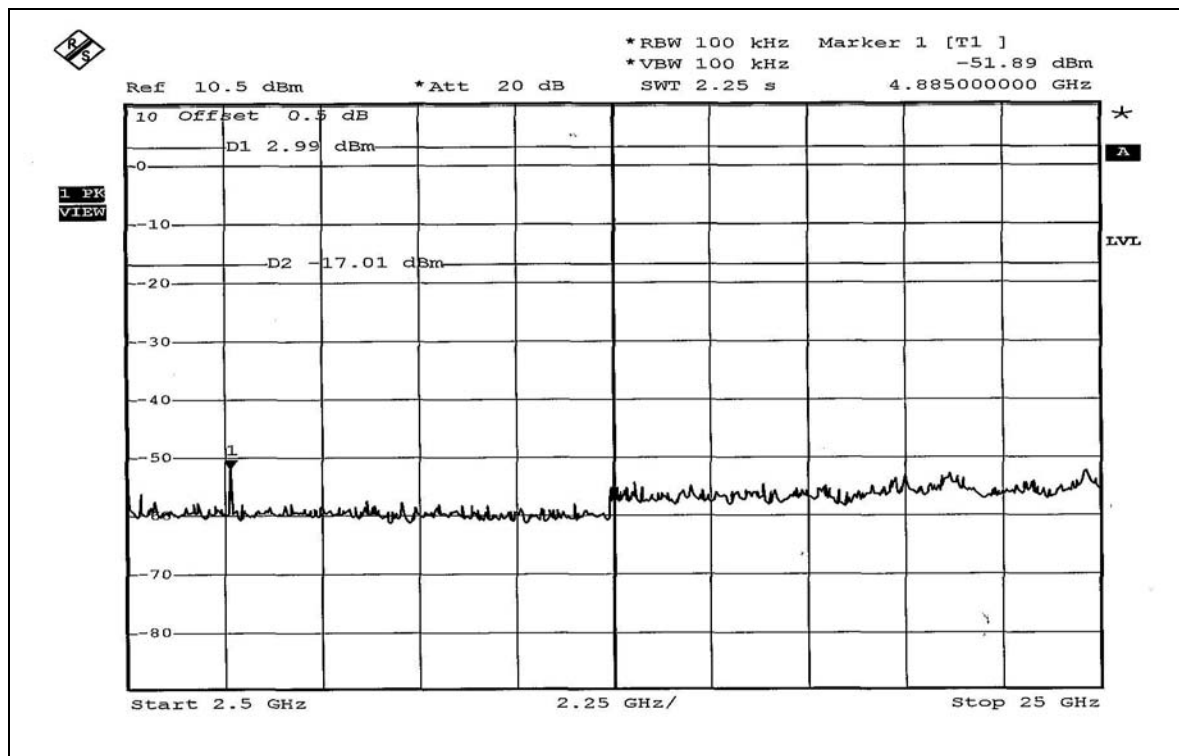
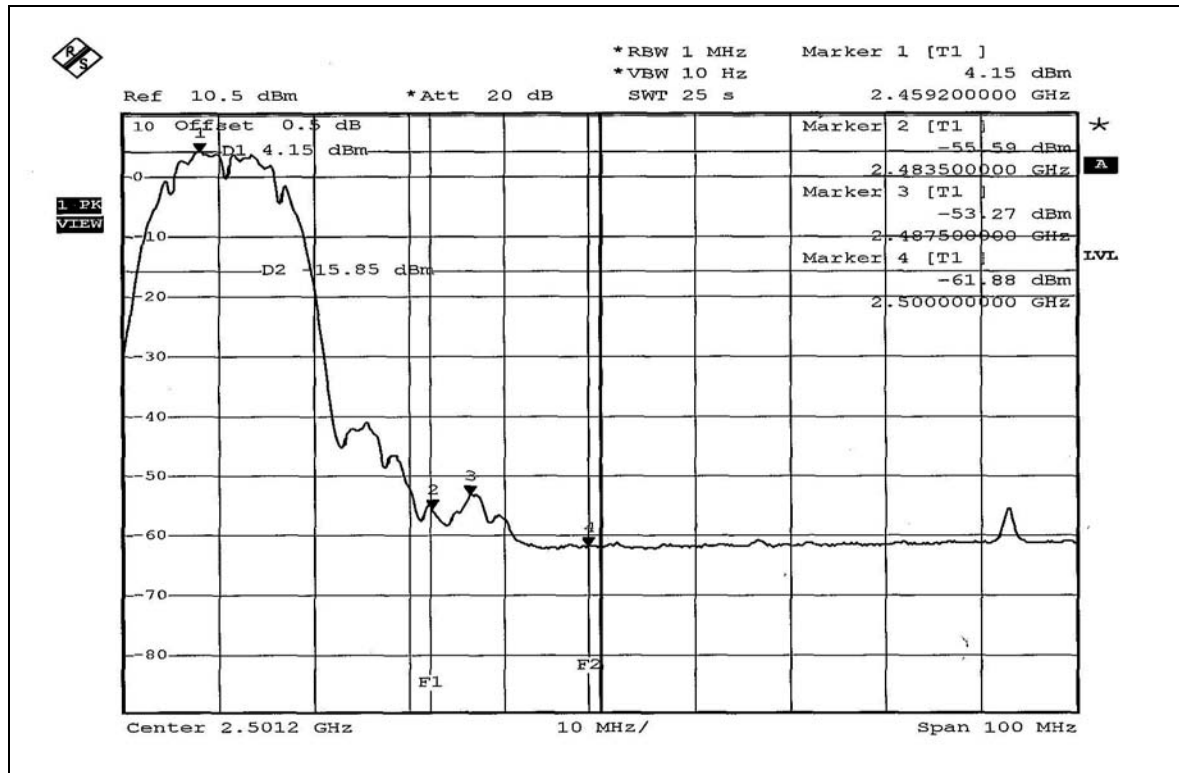
NOTE 2: The band edge emission plot on page 99 show 52.08dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 103.28dBuV/m (Peak), so the maximum field strength in restrict band is $103.28 - 52.08 = 51.20$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 100 show 55.94dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 95.17dBuV/m (Average), so the maximum field strength in restrict band is $95.17 - 55.94 = 39.23$ dBuV/m which is under 54dBuV/m limit.

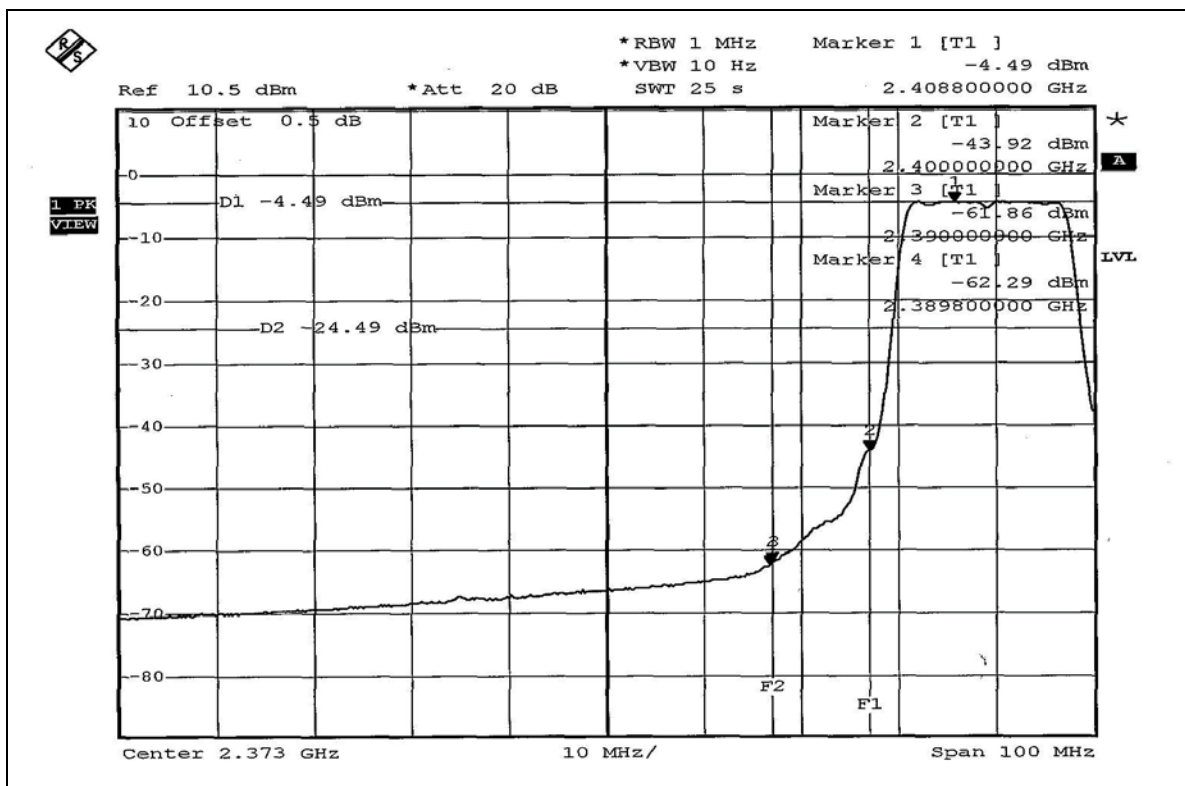
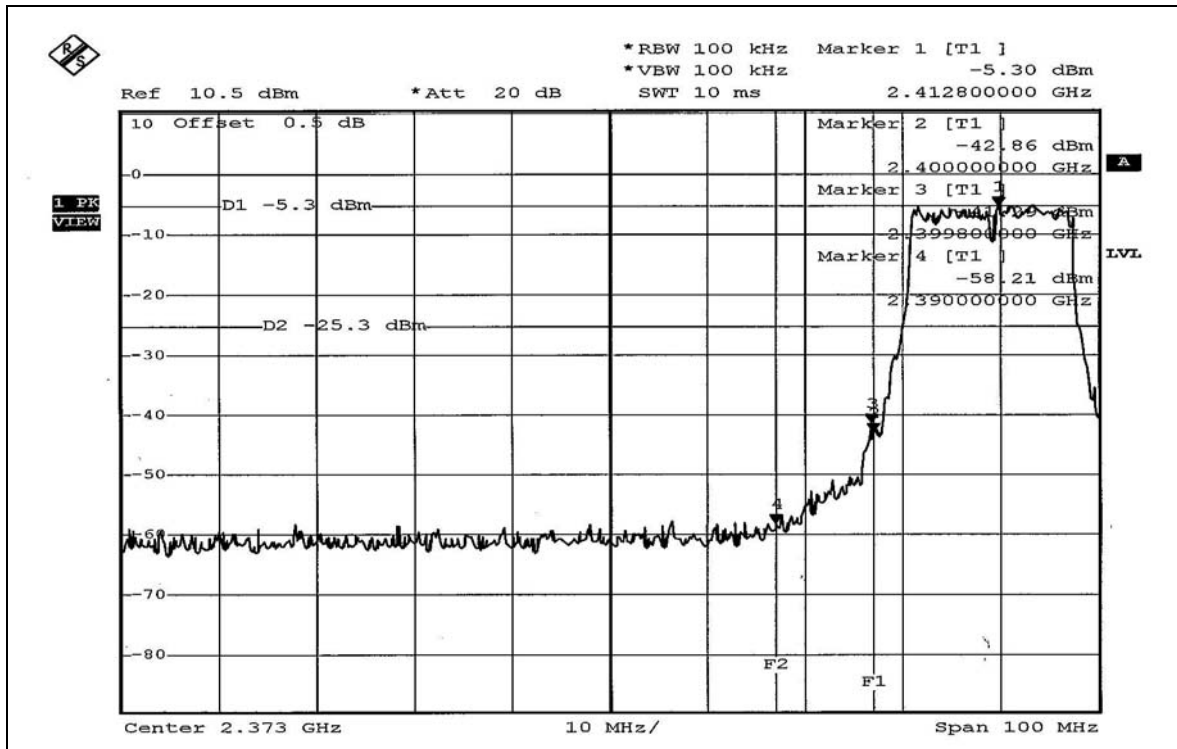
802.11b DSSS modulation

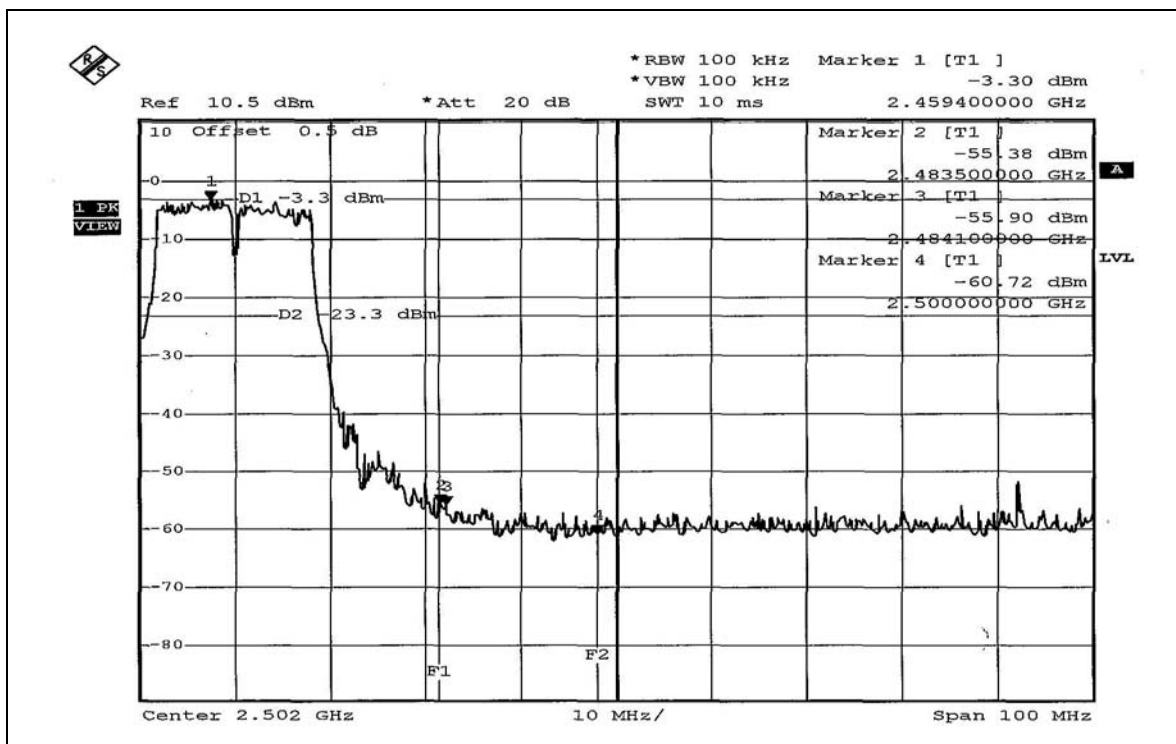
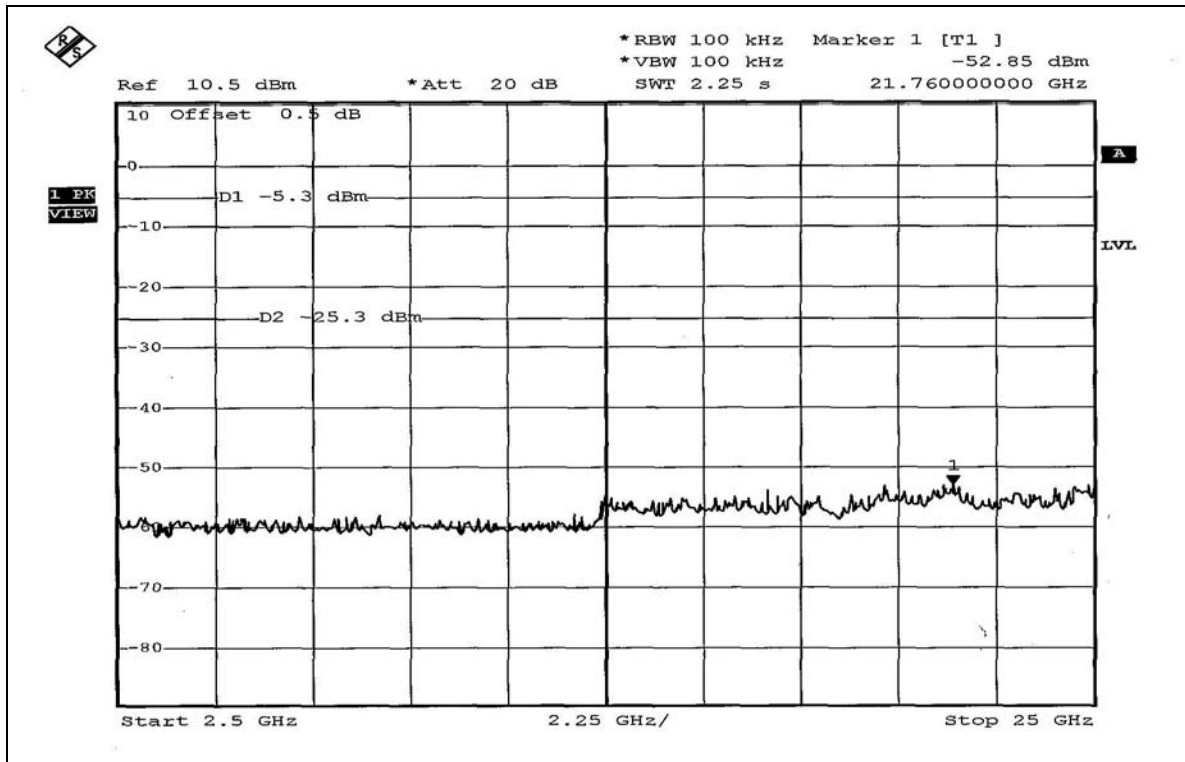


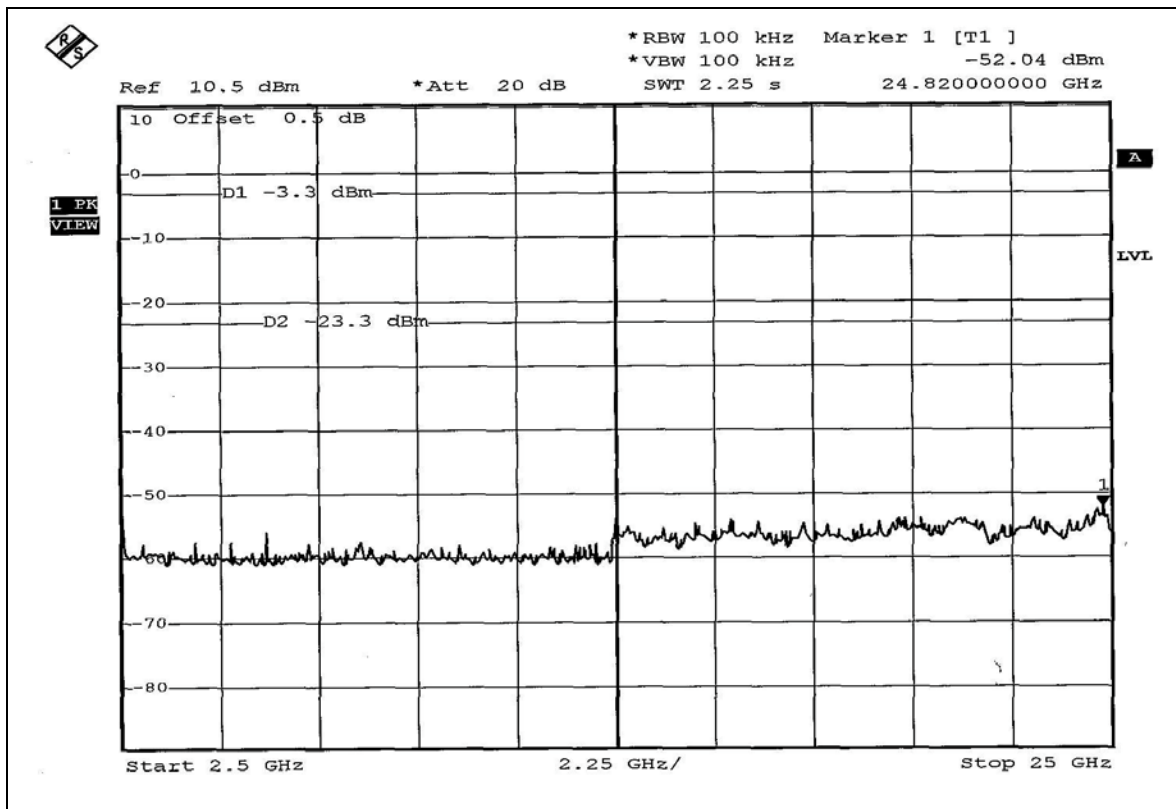
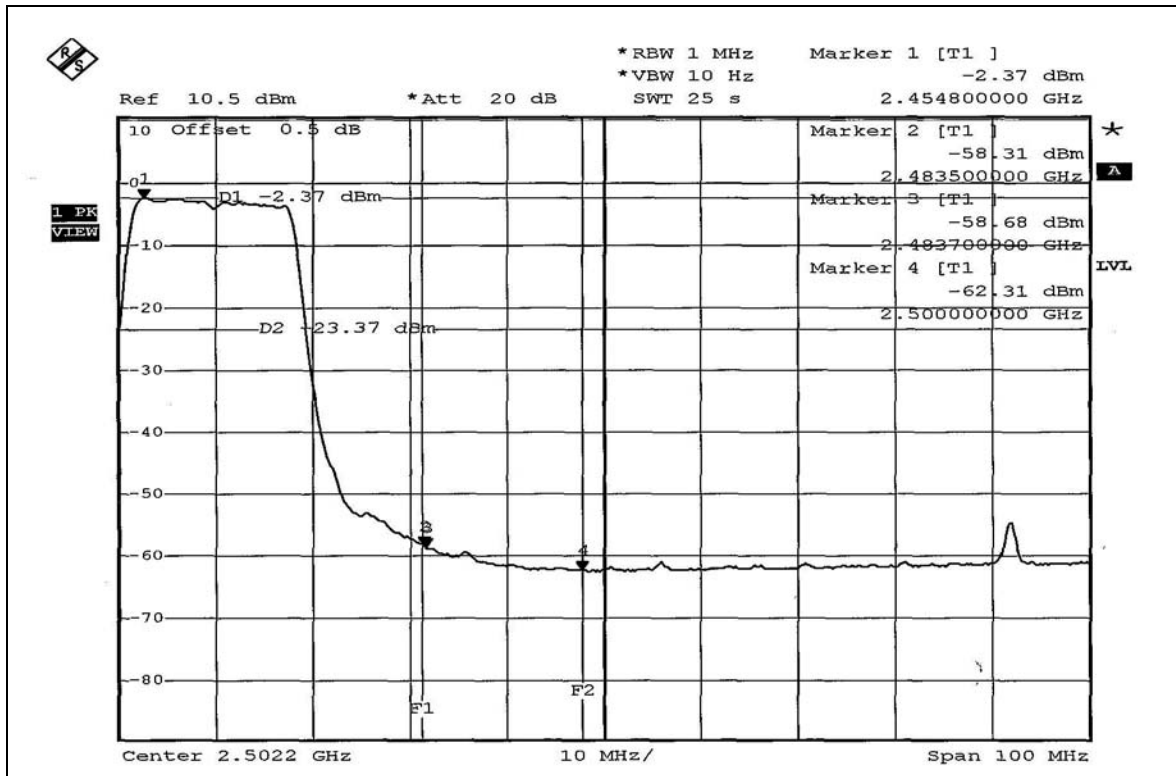




802.11g OFDM modulation









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 used in this product is Dipole antenna with Reversed SMA antenna connector. The maximum Gain of the antenna is 7dBi.

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST

Test Mode A with Adapter



Test Mode B with Adapter



Test Mode C with Adapter



Test Mode D with Adapter



Test Mode A with POE



Test Mode B with POE



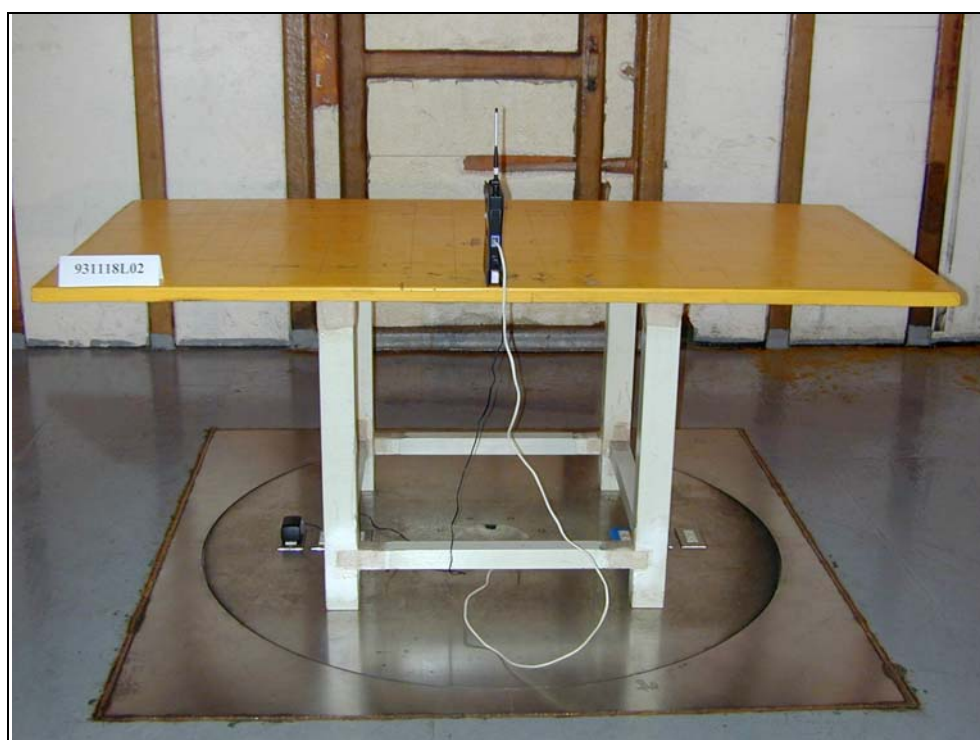
Test Mode C with POE



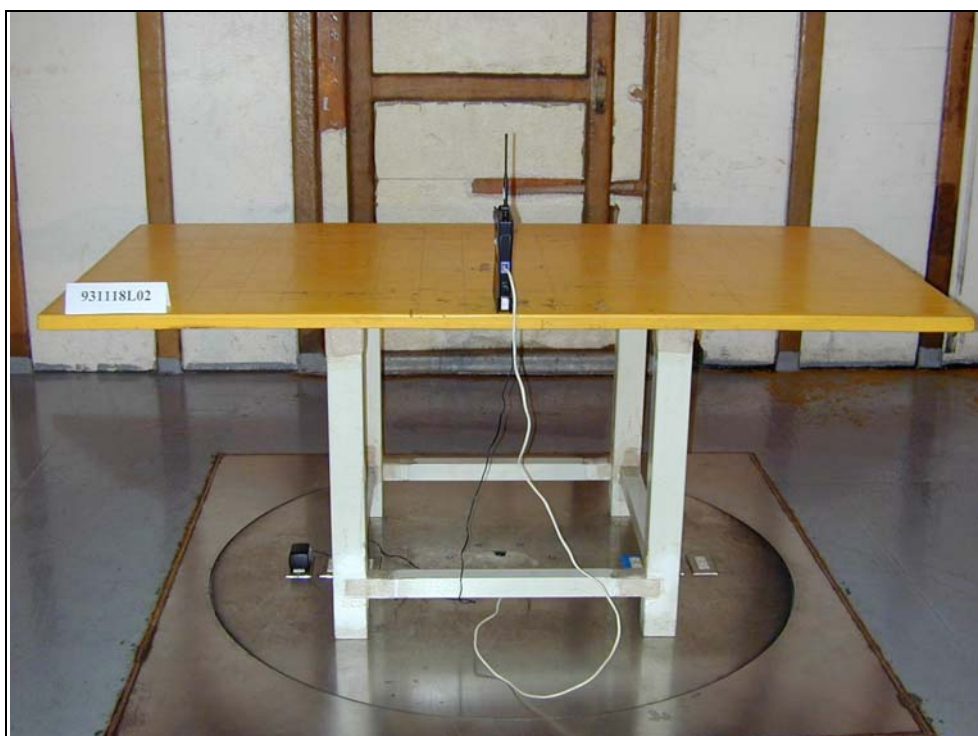
Test Mode D with POE



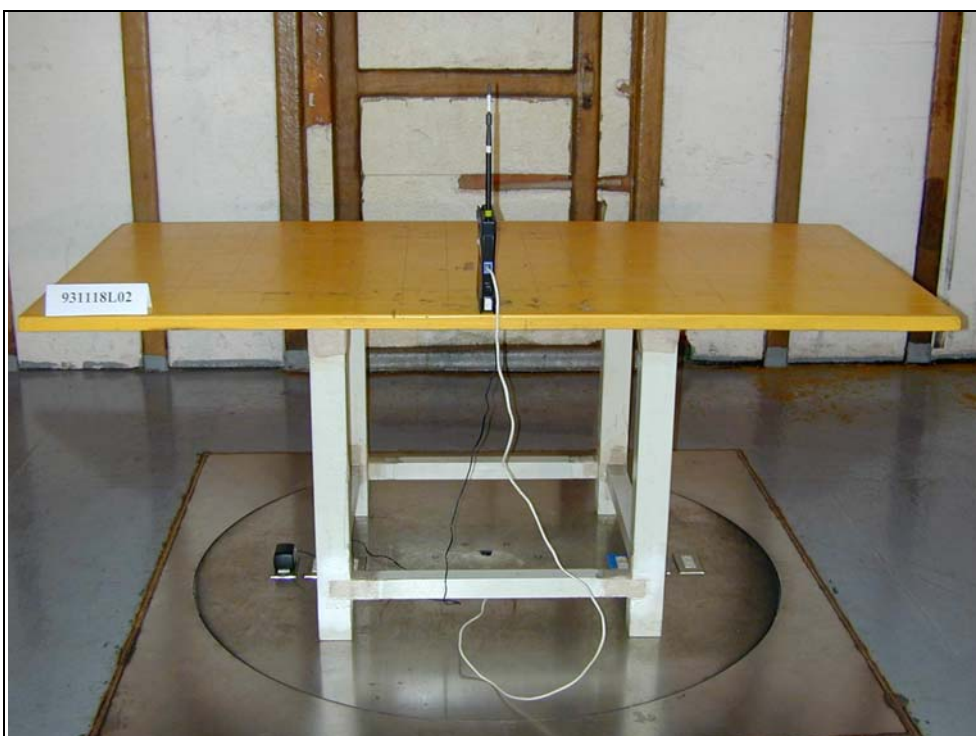
RADIATED EMISSION TEST
Test Mode A with Adapter



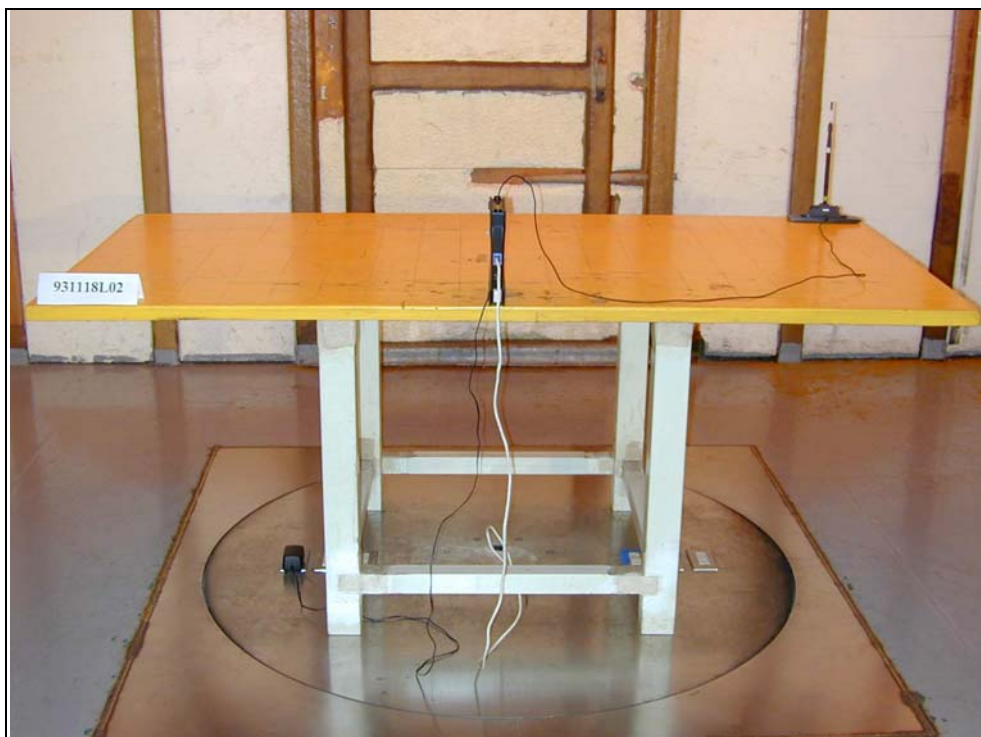
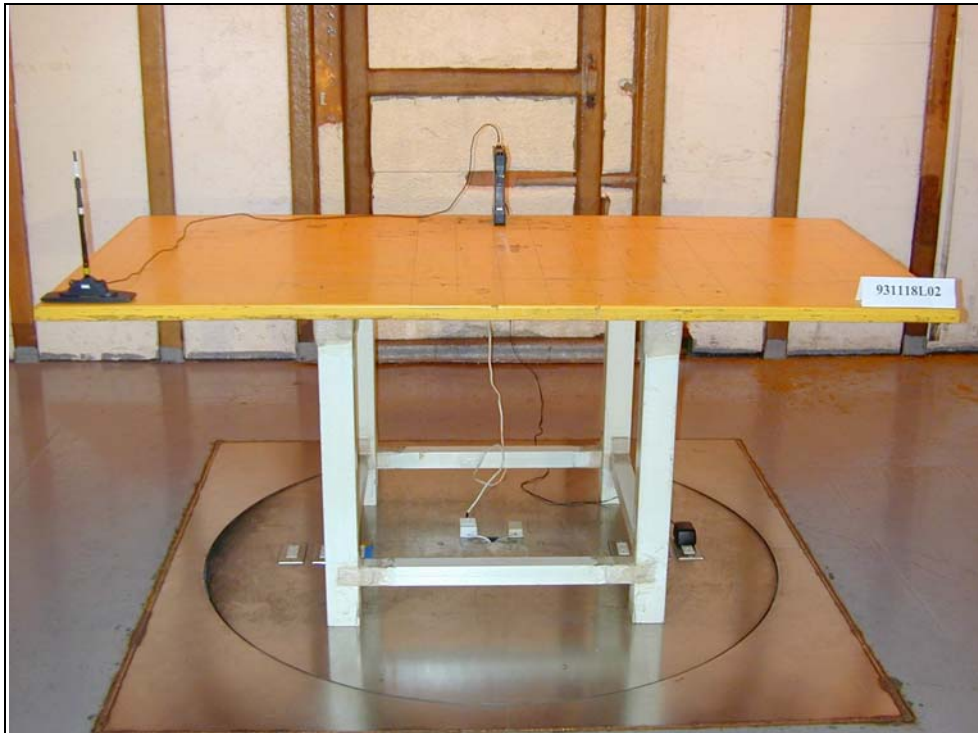
Test Mode B with Adapter



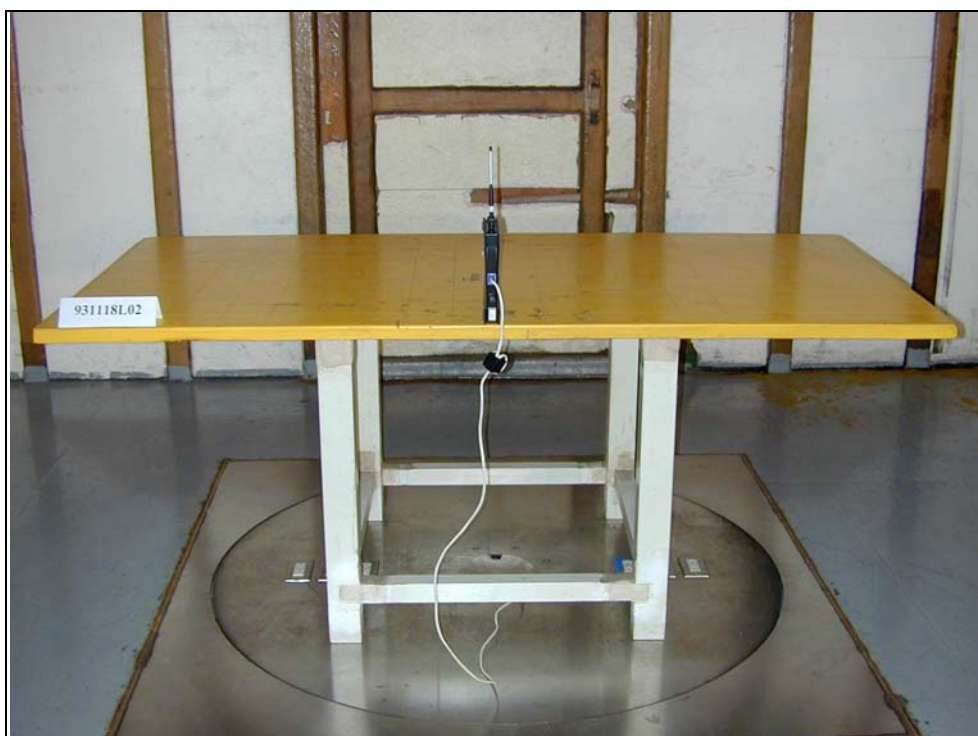
Test Mode C with Adapter



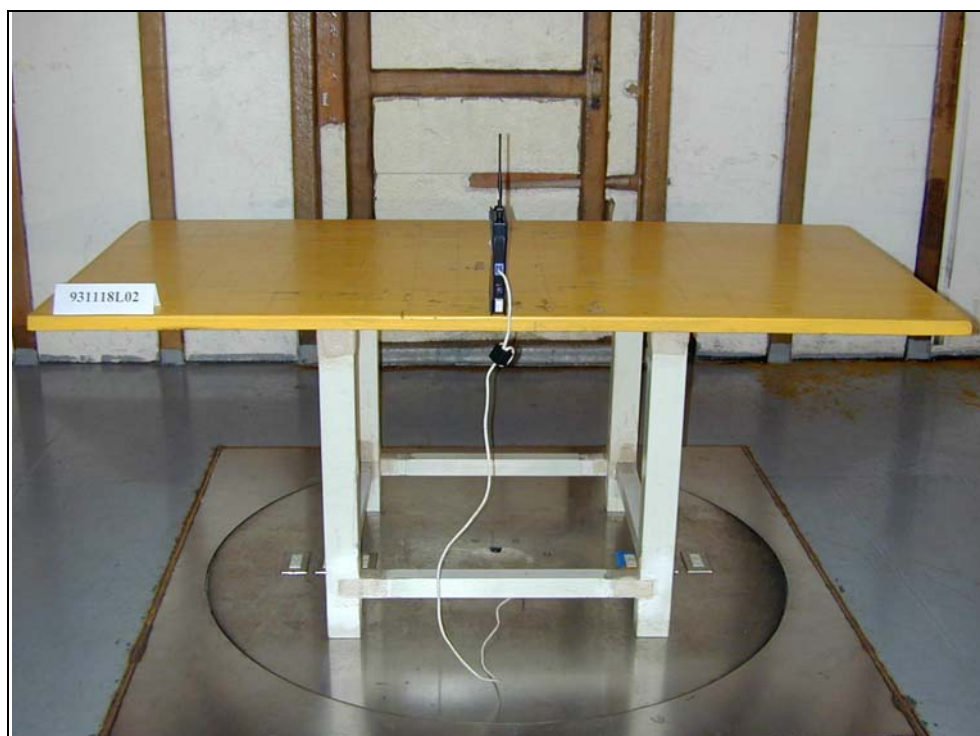
Test Mode D with Adapter



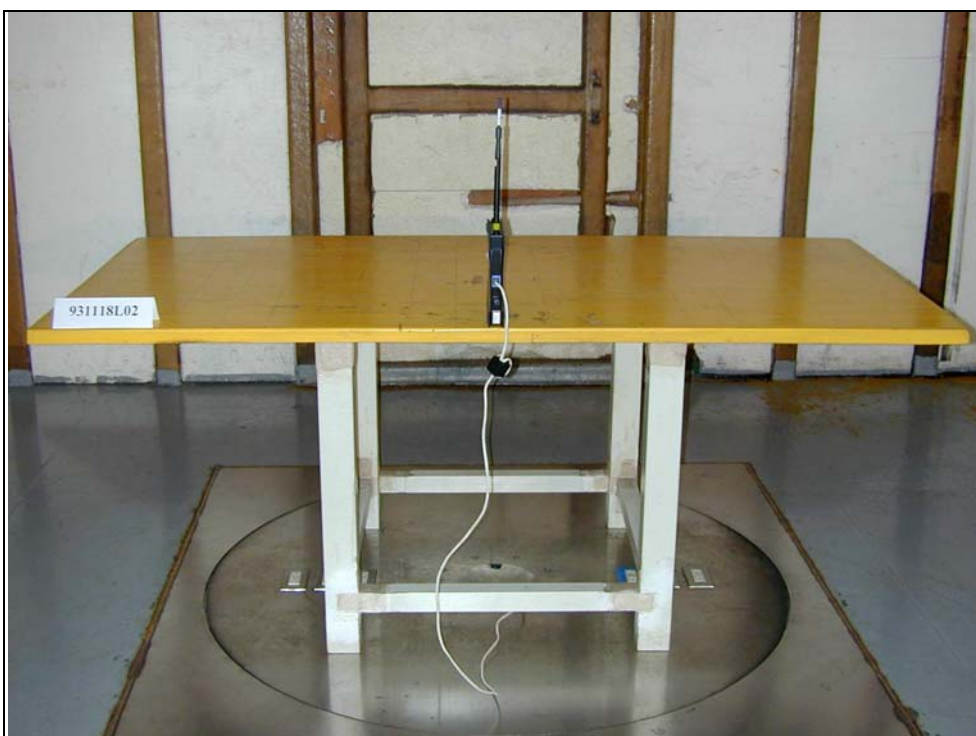
Test Mode A with POE



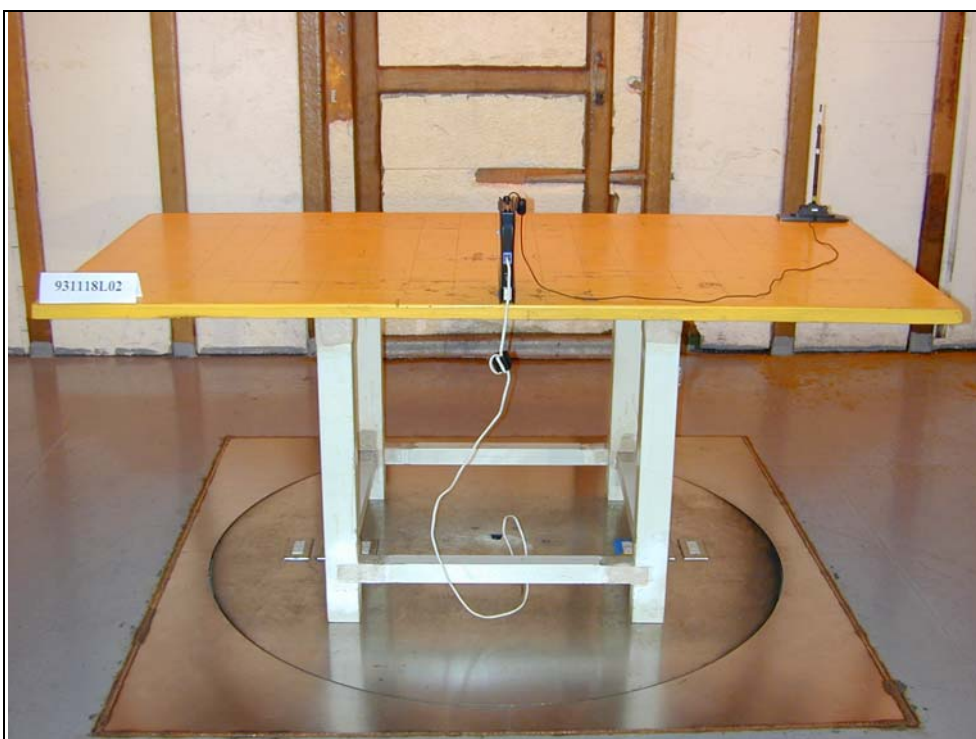
Test Mode B with POE



Test Mode C with POE



Test Mode D with POE



6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, NVLAP, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

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Fax: 886-3-3185050

Linko RF Lab.

Tel: 886-3-3270910

Fax: 886-3-3270892

Web Site: www.adt.com.tw

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