

FCC TEST REPORT

REPORT NO.: RF930821L01B

MODEL NO.: EP-6800 (refer to page 6 for other model)

RECEIVED: NA

TESTED: Jun. 15 ~ Sep. 09, 2004

ISSUED: Aug. 25, 2005

APPLICANT: SparkLAN Communications, Inc.

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0528
ILAC MRA



No. 2177-01

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1. CERTIFICATION

PRODUCT: 125 Mbps 802.11g Wireless Powerline Access Point

MODEL: EP-6800 (refer to page 6 for other model)

BRAND: SparkLAN (refer to page 6 for other brand)

APPLICANT: SparkLAN Communications, Inc.

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart C (Section 15.247),
ANSI C63.4-2001

The above equipment (model no.: EP-6800) is identical to model no. WHAPC-100GE, which has been tested by **Advance Data Technology Corporation** from Jun. 15 ~ Sep. 09, 2004, 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 : Andrea Hsia , **DATE:** Aug. 25, 2005
Andrea Hsia

TECHNICAL
ACCEPTANCE : Gary Chang , **DATE:** Aug. 25, 2005
Responsible for RF Gary Chang

APPROVED BY : Cody Chang , **DATE:** Aug. 25, 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 -2.16dB at 1.312MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(c)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -0.38dB at 37.78MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(c)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

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

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	125 Mbps 802.11g Wireless Powerline Access Point
MODEL NO.	EP-6800
POWER SUPPLY	120Vac, 60Hz from AC line
MODULATION TYPE	CCK, DQPSK, DBPSK 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	25.351mW
ANTENNA TYPE	Inverted-F antenna with 0dBi gain
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	NA

NOTE:

1. This is a duplicate report of RF930821L01, the differences are changing the product name, brand name, model name, applicant and appearance due to marketing requirement.
2. The models as below are identical to each other expect for their model designation, brand name and product name, due to marketing requirement.

Model Name	Brand	Product name	Description
EP-6800	SparkLAN	125 Mbps 802.11g Wireless Powerline Access Point	For marketing different
TPL-110AP	TRENDnet	125 Mbps 802.11g Wireless Powerline Access Point	For marketing different

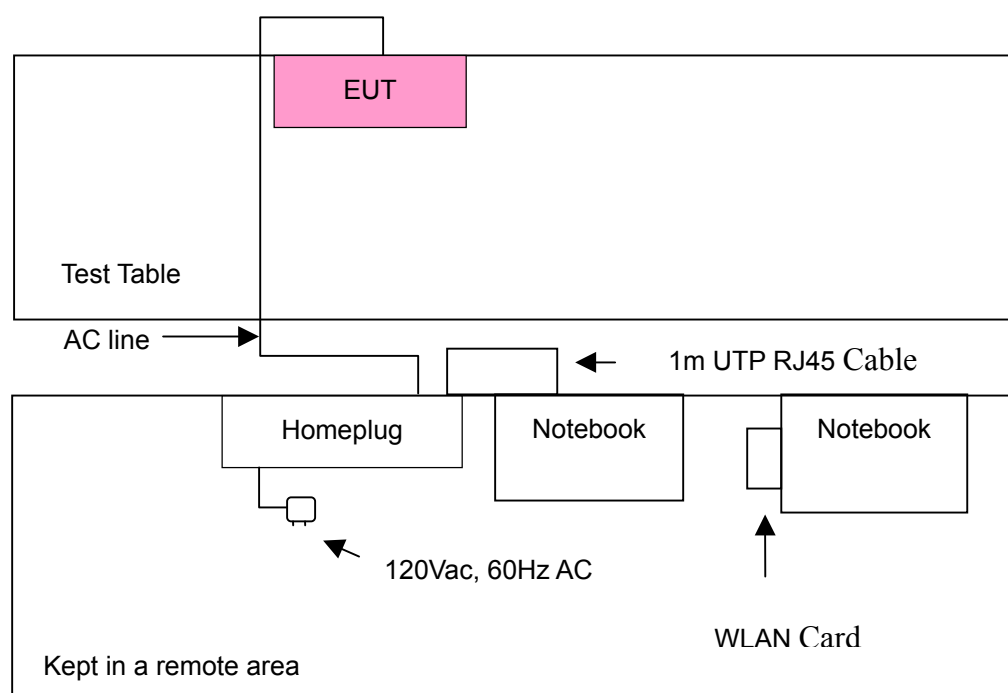
3. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b devices to the network. With its high-speed data transmissions of up to 54Mbps.
4. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

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



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE<1G	RE≥1G	APCM	
-	√	√	√	√	-

Where **PLC**: Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	11	OFDM	BPSK	6

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.

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

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



3.2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 125 Mbps 802.11g Wireless Powerline Access Point. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247)

ANSI C63.4: 2001

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.

3.2.4 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	12130898320	E2K24CLNS
2	NOTEBOOK COMPUTER	DELL	PP05L	25191592336	E2K24CLNS
3	WLAN CARD	NA	WN825G	NA	ACQWN825Gv2

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

NOTE: 1. All power cords of the above support units are non shielded (1.8m).

2. Item 1~3 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	Dec. 12, 2004
RF signal cable Woken	5D-FB	Cable-HYC01-01	Mar. 02, 2005
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Mar. 03, 2005
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Mar. 02, 2005
Software ADT	ADT_Cond_V3	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.



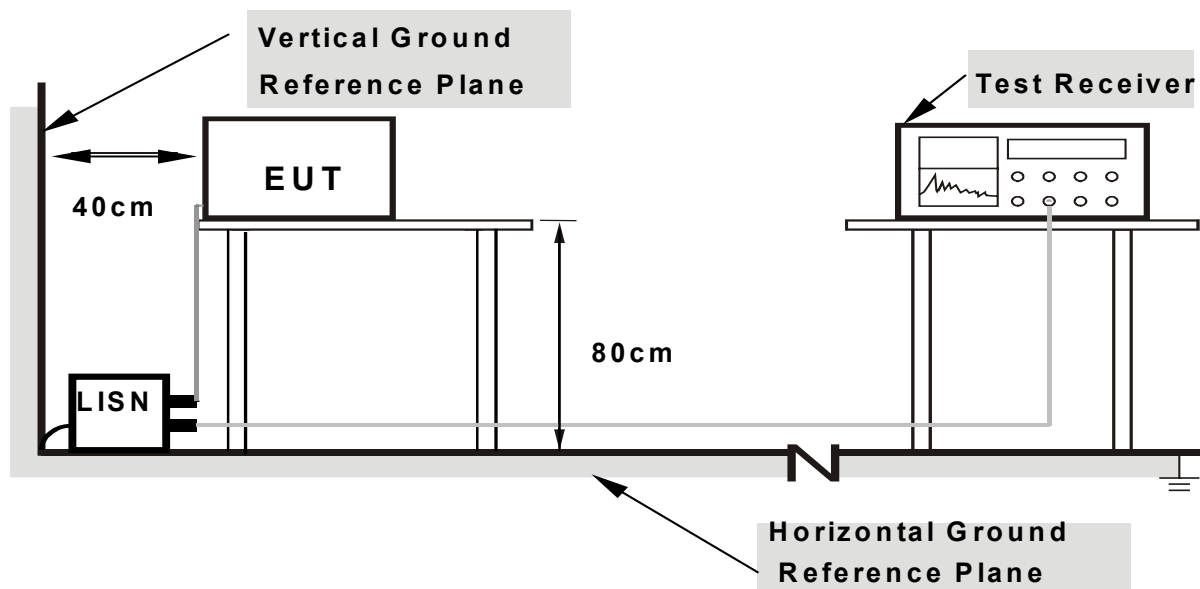
4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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

4.1.6 EUT OPERATING CONDITIONS

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

4.1.7 TEST RESULTS

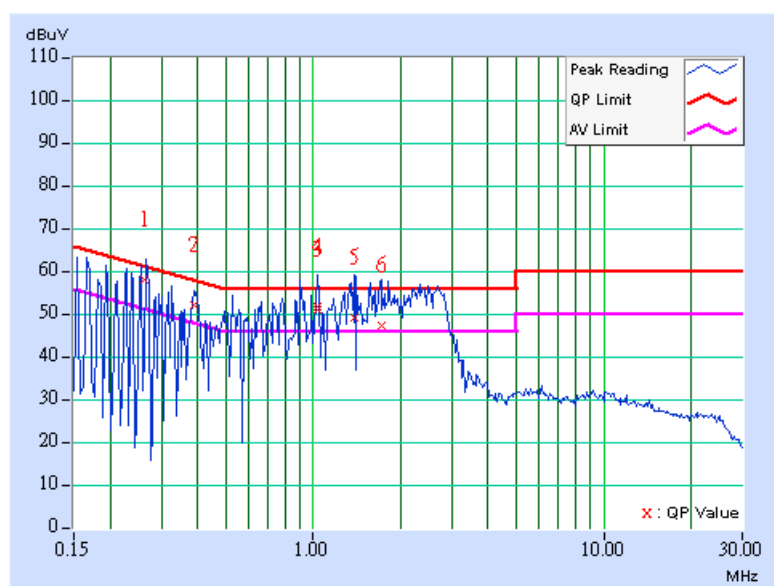
CONDUCTED WORST-CASE DATA

EUT	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	PHASE	Line 1
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Rush Kao		

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	0.262	0.12	58.14	46.04	58.26	46.16	61.37	51.37	-3.11	-5.21
2	0.388	0.13	51.97	39.86	52.10	39.99	58.10	48.10	-6.00	-8.11
3	1.031	0.15	50.79	34.02	50.94	34.17	56.00	46.00	-5.06	-11.83
4	1.031	0.15	51.87	34.59	52.02	34.74	56.00	46.00	-3.98	-11.26
5	1.387	0.15	49.23	32.78	49.38	32.93	56.00	46.00	-6.62	-13.07
6	1.711	0.16	47.31	33.51	47.47	33.67	56.00	46.00	-8.53	-12.33

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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.

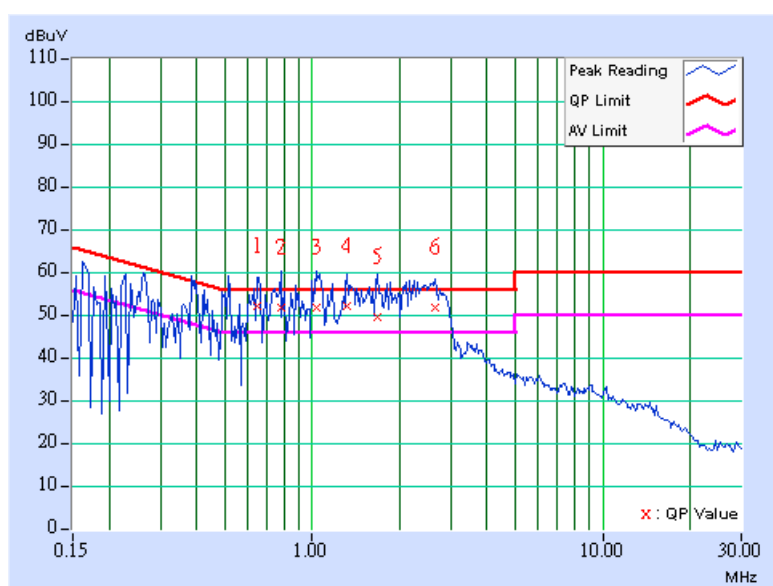


EUT	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	PHASE	Line 2
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Rush Kao		

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	0.650	0.12	52.13	41.30	52.25	41.42	56.00	46.00	-3.75	-4.58
2	0.779	0.13	51.77	32.86	51.90	32.99	56.00	46.00	-4.10	-13.01
3	1.031	0.15	51.55	35.46	51.70	35.61	56.00	46.00	-4.30	-10.39
4	1.324	0.15	52.15	37.15	52.30	37.30	56.00	46.00	-3.70	-8.70
5	1.684	0.16	49.32	38.10	49.48	38.26	56.00	46.00	-6.52	-7.74
6	2.641	0.17	51.68	42.88	51.85	43.05	56.00	46.00	-4.15	-2.95

*(The test data is in accordance with ADT Report No.: RF930821L01.)

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 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.

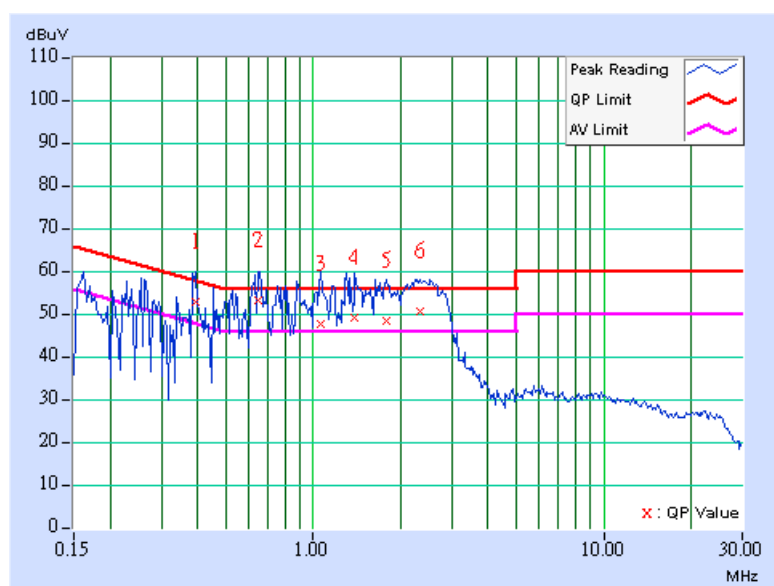


EUT	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	PHASE	Line 1
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Rush Kao		

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	0.396	0.13	52.92	38.43	53.05	38.56	57.93	47.93	-4.89	-9.38
2	0.650	0.13	53.23	37.89	53.36	38.02	56.00	46.00	-2.64	-7.98
3	1.055	0.15	47.73	33.38	47.88	33.53	56.00	46.00	-8.12	-12.47
4	1.391	0.15	49.17	32.89	49.32	33.04	56.00	46.00	-6.68	-12.96
5	1.777	0.16	48.46	35.00	48.62	35.16	56.00	46.00	-7.38	-10.84
6	2.344	0.17	50.72	37.11	50.89	37.28	56.00	46.00	-5.11	-8.72

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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.

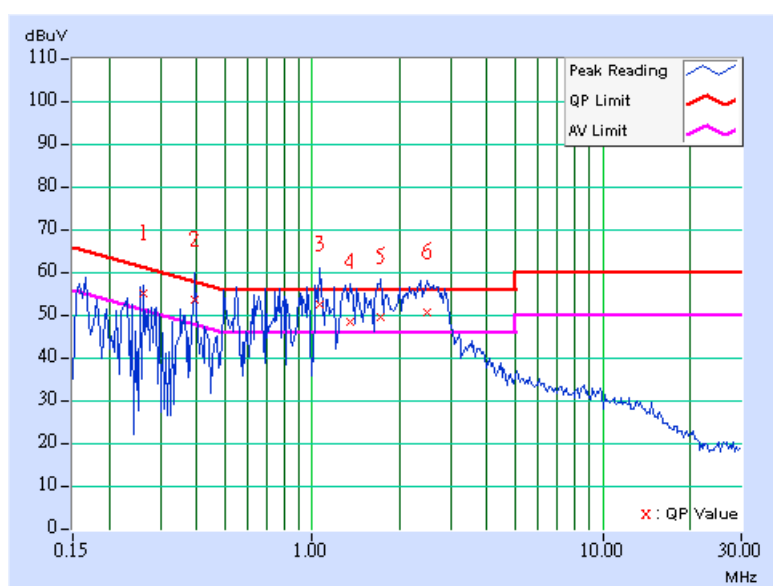


EUT	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	PHASE	Line 2
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Rush Kao		

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	0.263	0.11	55.03	42.69	55.14	42.80	61.33	51.33	-6.19	-8.53
2	0.396	0.12	53.38	38.99	53.50	39.11	57.93	47.93	-4.44	-8.83
3	1.063	0.15	52.58	35.15	52.73	35.30	56.00	46.00	-3.27	-10.70
4	1.355	0.15	48.45	34.49	48.60	34.64	56.00	46.00	-7.40	-11.36
5	1.719	0.16	49.58	38.04	49.74	38.20	56.00	46.00	-6.26	-7.80
6	2.488	0.17	50.67	39.97	50.84	40.14	56.00	46.00	-5.16	-5.86

*(The test data is in accordance with ADT Report No.: RF930821L01.)

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 6. Emission Level = Correction Factor + Reading Value.

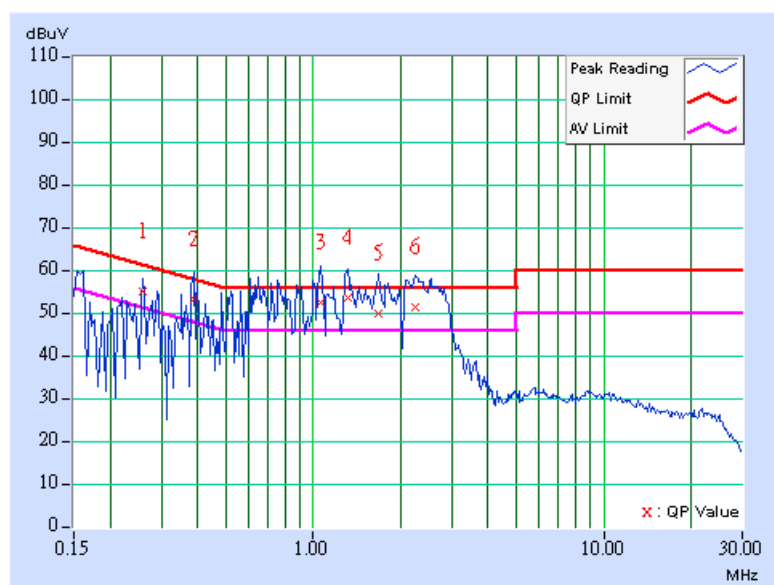


EUT	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	PHASE	Line 1
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Rush Kao		

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	0.259	0.12	55.11	42.69	55.23	42.81	61.45	51.45	-6.22	-8.64
2	0.388	0.13	53.26	38.69	53.39	38.82	58.10	48.10	-4.71	-9.28
3	1.066	0.15	52.32	34.07	52.47	34.22	56.00	46.00	-3.53	-11.78
4	1.313	0.15	53.69	36.18	53.84	36.33	56.00	46.00	-2.16	-9.67
5	1.676	0.16	49.90	35.45	50.06	35.61	56.00	46.00	-5.94	-10.39
6	2.242	0.17	51.23	37.47	51.40	37.64	56.00	46.00	-4.60	-8.36

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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.

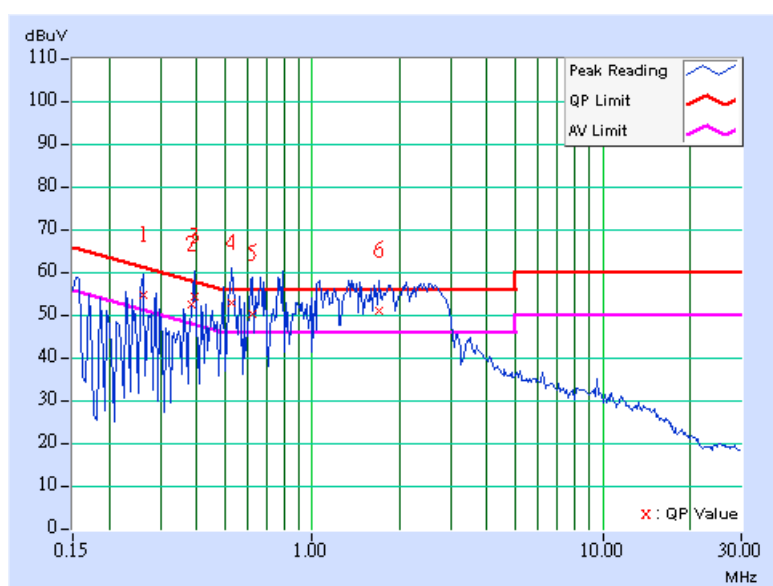


EUT	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	PHASE	Line 2
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Rush Kao		

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	0.263	0.11	54.49	42.06	54.60	42.17	61.33	51.33	-6.73	-9.16
2	0.385	0.12	52.31	36.27	52.43	36.39	58.18	48.18	-5.75	-11.79
3	0.392	0.12	54.12	39.72	54.24	39.84	58.02	48.02	-3.78	-8.18
4	0.529	0.12	52.90	34.75	53.02	34.87	56.00	46.00	-2.98	-11.13
5	0.623	0.12	50.07	38.13	50.19	38.25	56.00	46.00	-5.81	-7.75
6	1.699	0.16	50.80	38.93	50.96	39.09	56.00	46.00	-5.04	-6.91

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Feb. 09, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Dec. 15, 2004
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-404	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170242	Feb. 23, 2005
Preamplifier Agilent	8447D	2944A10631	Jan. 15, 2005
Preamplifier Agilent	8449B	3008A01960	Jan. 22, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219272/4	Mar. 04, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219275/4	Mar. 04, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 3.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The IC Site Registration No. is IC4924-4.

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak method or average method as specified and then reported in data sheet.

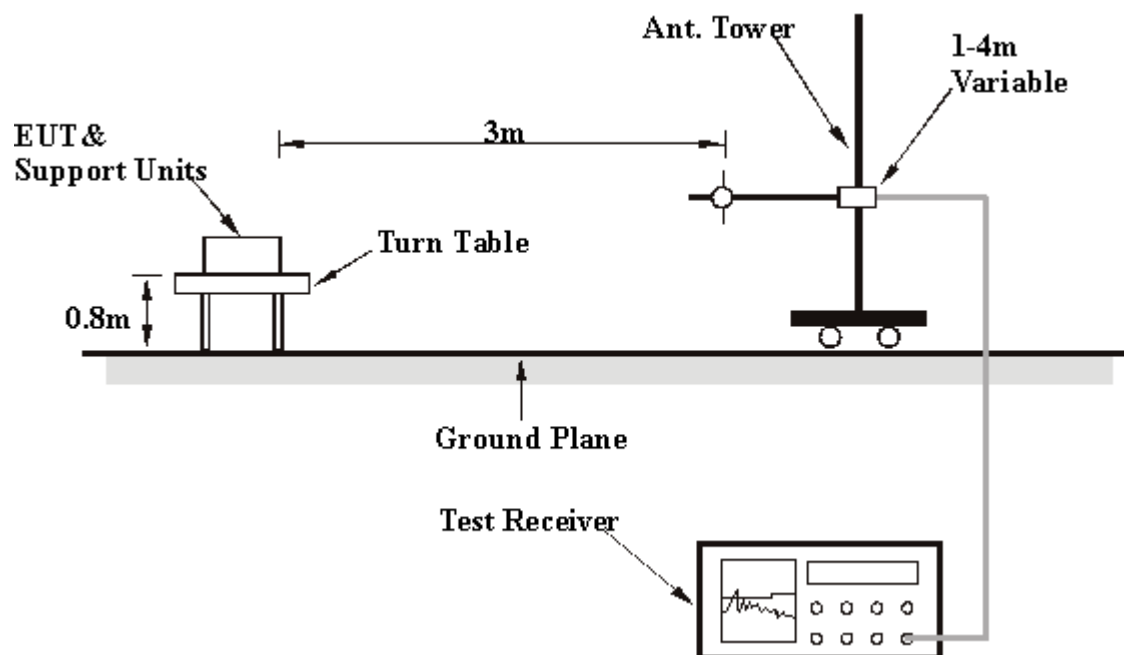
NOTE:

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 1 kHz 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

RADIATED WORST-CASE DATA: BELOW 1GHz

EUT	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Leo Hung		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.78	36.66 QP	40.00	-3.34	3.00 H	70	21.70	14.96
2	99.98	35.93 QP	43.50	-7.57	2.00 H	337	25.02	10.91
3	150.52	38.21 QP	43.50	-5.29	2.00 H	163	23.51	14.70
4	199.12	36.66 QP	43.50	-6.84	1.50 H	310	25.32	11.34
5	249.66	28.93 QP	46.00	-17.07	1.00 H	61	15.83	13.11
6	300.20	37.38 QP	46.00	-8.62	1.00 H	79	22.97	14.41
7	399.34	39.30 QP	46.00	-6.70	2.50 H	268	22.59	16.71
8	449.88	31.69 QP	46.00	-14.31	2.00 H	133	13.70	18.00
9	500.42	38.41 QP	46.00	-7.59	2.00 H	334	19.83	18.58
10	550.96	36.49 QP	46.00	-9.51	1.50 H	205	17.00	19.49
11	599.56	42.97 QP	46.00	-3.03	1.25 H	205	22.15	20.82
12	650.10	36.69 QP	46.00	-9.31	1.25 H	313	15.22	21.47
13	700.64	36.22 QP	46.00	-9.78	2.50 H	205	14.20	22.03
14	751.18	32.08 QP	46.00	-13.92	2.00 H	310	8.84	23.25
15	799.78	40.18 QP	46.00	-5.82	1.75 H	295	16.72	23.46
16	850.32	31.03 QP	46.00	-14.97	1.75 H	127	7.11	23.92
17	900.86	41.56 QP	46.00	-4.44	1.50 H	52	16.74	24.82

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25 deg. C, 60% RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Leo Hung		

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	37.78	39.62 QP	40.00	-0.38	1.00 V	31	24.66	14.96
2	99.98	35.57 QP	43.50	-7.93	1.50 V	259	24.66	10.91
3	150.52	36.20 QP	43.50	-7.30	1.25 V	313	21.50	14.70
4	199.12	35.07 QP	43.50	-8.43	1.00 V	298	23.73	11.34
5	251.60	28.97 QP	46.00	-17.03	1.25 V	304	15.84	13.13
6	300.20	35.01 QP	46.00	-10.99	1.50 V	70	20.60	14.41
7	399.34	39.89 QP	46.00	-6.11	1.50 V	88	23.18	16.71
8	449.88	31.02 QP	46.00	-14.98	1.75 V	241	13.03	18.00
9	500.42	41.87 QP	46.00	-4.13	1.00 V	91	23.29	18.58
10	550.96	33.39 QP	46.00	-12.61	1.75 V	223	13.91	19.49
11	599.56	39.59 QP	46.00	-6.41	1.75 V	109	18.77	20.82
12	650.10	32.68 QP	46.00	-13.32	1.00 V	307	11.21	21.47
13	700.64	38.54 QP	46.00	-7.46	1.50 V	52	16.51	22.03
14	751.18	29.26 QP	46.00	-16.74	2.00 V	298	6.01	23.25
15	799.78	35.60 QP	46.00	-10.40	2.00 V	7	12.14	23.46
16	900.86	37.87 QP	46.00	-8.13	1.00 V	124	13.05	24.82

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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

EUT	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Leo Hung		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1608.00	49.54 PK	74.00	-24.46	1.57 H	210	19.41	30.13
1	1608.00	46.73 AV	54.00	-7.27	1.57 H	210	16.60	30.13
2	2390.00	34.01 PK	74.00	-39.99	1.00 H	360	0.18	33.83
2	2390.00	27.36 AV	54.00	-26.64	1.00 H	360	-6.47	33.83
3	*2412.00	92.38 PK			1.00 H	360	58.45	33.93
3	*2412.00	85.73 AV			1.00 H	360	51.80	33.93
4	3216.00	51.86 PK	74.00	-22.14	1.21 H	272	15.52	36.33
4	3216.00	46.37 AV	54.00	-7.63	1.21 H	272	10.03	36.33
5	4824.00	39.27 PK	74.00	-34.73	1.00 H	112	-1.39	40.66
5	4824.00	51.26 AV	54.00	-2.74	1.00 H	112	10.60	40.66

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	1608.00	45.81 PK	74.00	-28.19	1.00 V	229	15.68	30.13
1	1608.00	40.81 AV	54.00	-13.19	1.00 V	229	10.68	30.13
2	2390.00	46.77 PK	74.00	-27.23	1.09 V	247	12.94	33.83
2	2390.00	41.20 AV	54.00	-12.80	1.09 V	247	7.37	33.83
3	*2412.00	105.14 PK			1.09 V	247	71.21	33.93
3	*2412.00	99.57 AV			1.09 V	247	65.64	33.93
4	3216.00	52.15 PK	74.00	-21.85	1.33 V	220	15.81	36.33
4	3216.00	46.68 AV	54.00	-7.32	1.33 V	220	10.34	36.33
5	4824.00	51.72 PK	74.00	-22.28	1.02 V	225	11.06	40.66
5	4824.00	38.81 AV	54.00	-15.19	1.02 V	225	-1.85	40.66

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Leo Hung		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1624.00	49.38 PK	74.00	-24.62	1.60 H	204	19.22	30.16
1	1624.00	46.80 AV	54.00	-7.20	1.60 H	204	16.64	30.16
2	*2437.00	91.80 PK			1.00 H	265	57.75	34.05
2	*2437.00	85.36 AV			1.00 H	265	51.31	34.05
3	3248.00	52.36 PK	74.00	-21.64	1.24 H	263	16.00	36.36
3	3248.00	46.27 AV	54.00	-7.73	1.24 H	263	9.91	36.36
4	4874.00	51.06 PK	74.00	-22.94	1.12 H	288	10.37	40.69
4	4874.00	38.59 AV	54.00	-15.41	1.12 H	288	-2.10	40.69

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1624.00	44.78 PK	74.00	-29.22	1.00 V	360	14.62	30.16
1	1624.00	41.29 AV	54.00	-12.71	1.00 V	360	11.13	30.16
2	*2437.00	104.81 PK			1.01 V	225	70.76	34.05
2	*2437.00	99.22 AV			1.01 V	225	65.17	34.05
3	3248.00	49.77 PK	74.00	-24.23	1.00 V	227	13.41	36.36
3	3248.00	41.86 AV	54.00	-12.14	1.00 V	227	5.50	36.36
4	4874.00	50.09 PK	74.00	-23.91	1.00 V	112	9.40	40.69
4	4874.00	38.62 AV	54.00	-15.38	1.00 V	112	-2.07	40.69

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	CCK	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991hPa
TRANSFER RATE	11Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Leo Hung		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1641.00	44.79 PK	74.00	-29.21	1.20 H	199	14.61	30.18
1	1641.00	40.82 AV	54.00	-13.18	1.20 H	199	10.64	30.18
2	*2462.00	97.11 PK			1.81 H	277	62.95	34.16
2	*2462.00	90.30 AV			1.81 H	277	56.14	34.16
3	2483.50	39.44 PK	74.00	-34.56	1.81 H	277	5.18	34.26
3	2483.50	32.63 AV	54.00	-21.37	1.81 H	277	-1.63	34.26
4	3282.00	49.43 PK	74.00	-24.57	1.36 H	65	13.04	36.40
4	3282.00	40.26 AV	54.00	-13.74	1.36 H	65	3.87	36.40
5	4924.00	50.69 PK	74.00	-23.31	1.22 H	144	9.83	40.86
5	4924.00	39.53 AV	54.00	-14.47	1.22 H	144	-1.33	40.86

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1641.00	48.93 PK	74.00	-25.07	1.21 V	206	18.75	30.18
1	1641.00	46.98 AV	54.00	-7.02	1.21 V	206	16.80	30.18
2	*2462.00	105.24 PK			1.12 V	228	71.08	34.16
2	*2462.00	100.22 AV			1.12 V	228	66.06	34.16
3	2483.50	47.57 PK	74.00	-26.43	1.12 V	228	13.31	34.26
3	2483.50	42.55 AV	54.00	-11.45	1.12 V	228	8.29	34.26
4	3282.00	50.37 PK	74.00	-23.63	1.25 V	278	13.98	36.40
4	3282.00	43.24 AV	54.00	-10.76	1.25 V	278	6.85	36.40
5	4924.00	50.59 PK	74.00	-23.41	1.07 V	22	9.73	40.86
5	4924.00	39.04 AV	54.00	-14.96	1.07 V	22	-1.82	40.86

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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

EUT	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Rush Kao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1608.00	49.21 PK	74.00	-24.79	1.57 H	210	19.08	30.13
1	1608.00	46.93 AV	54.00	-7.07	1.57 H	210	16.80	30.13
2	2390.00	37.21 PK	74.00	-36.79	1.00 H	10	3.38	33.83
2	2390.00	31.09 AV	54.00	-22.91	1.00 H	10	-2.74	33.83
3	*2412.00	89.90 PK			1.00 H	10	55.97	33.93
3	*2412.00	83.78 AV			1.00 H	10	49.85	33.93
4	3216.00	54.59 PK	74.00	-19.41	1.23 H	260	18.25	36.33
4	3216.00	50.69 AV	54.00	-3.31	1.23 H	260	14.35	36.33
5	4824.00	51.08 PK	74.00	-22.92	1.21 H	257	10.42	40.66
5	4824.00	39.14 AV	54.00	-14.86	1.21 H	257	-1.52	40.66

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	1608.00	46.60 PK	74.00	-27.40	1.52 V	144	16.47	30.13
1	1608.00	41.98 AV	54.00	-12.02	1.52 V	144	11.85	30.13
2	2390.00	49.52 PK	74.00	-24.48	1.06 V	255	15.69	33.83
2	2390.00	42.52 AV	54.00	-11.48	1.06 V	255	8.69	33.83
3	*2412.00	102.22 PK			1.06 V	255	68.29	33.93
3	*2412.00	95.21 AV			1.06 V	255	61.28	33.93
4	3216.00	54.10 PK	74.00	-19.90	1.00 V	230	17.76	36.33
4	3216.00	49.49 AV	54.00	-4.51	1.00 V	230	13.15	36.33
5	4824.00	51.36 PK	74.00	-22.64	1.03 V	331	10.70	40.66
5	4824.00	38.62 AV	54.00	-15.38	1.03 V	331	-2.04	40.66

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Rush Kao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1624.00	47.80 PK	74.00	-26.20	1.52 H	82	17.64	30.16
1	1624.00	45.02 AV	54.00	-8.98	1.52 H	82	14.86	30.16
2	*2437.00	93.15 PK			1.76 H	280	59.10	34.05
2	*2437.00	86.42 AV			1.76 H	280	52.37	34.05
3	3248.00	52.84 PK	74.00	-21.16	1.04 H	275	16.48	36.36
3	3248.00	48.22 AV	54.00	-5.78	1.04 H	275	11.86	36.36
4	4874.00	50.11 PK	74.00	-23.89	1.00 H	248	9.42	40.69
4	4874.00	38.92 AV	54.00	-15.08	1.00 H	248	-1.77	40.69

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1624.00	45.87 PK	74.00	-28.13	1.49 V	146	15.71	30.16
1	1624.00	42.55 AV	54.00	-11.45	1.49 V	146	12.39	30.16
2	*2437.00	102.55 PK			1.13 V	232	68.50	34.05
2	*2437.00	95.78 AV			1.13 V	232	61.73	34.05
3	3248.00	51.64 PK	74.00	-22.36	1.00 V	225	15.28	36.36
3	3248.00	45.77 AV	54.00	-8.23	1.00 V	225	9.41	36.36
4	4874.00	50.41 PK	74.00	-23.59	1.07 V	114	9.72	40.69
4	4874.00	38.46 AV	54.00	-15.54	1.07 V	114	-2.23	40.69

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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	125 Mbps 802.11g Wireless Powerline Access Point	MEASUREMENT DETAIL	
MODEL	EP-6800	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Rush Kao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1641.00	48.44 PK	74.00	-25.56	1.55 H	209	18.26	30.18
1	1641.00	45.99 AV	54.00	-8.01	1.55 H	209	15.81	30.18
2	*2462.00	94.15 PK			1.76 H	294	59.99	34.16
2	*2462.00	87.35 AV			1.76 H	294	53.19	34.16
3	2483.50	43.20 PK	74.00	-30.80	1.76 H	294	8.94	34.26
3	2483.50	36.40 AV	54.00	-17.60	1.76 H	294	2.14	34.26
4	3282.00	51.84 PK	74.00	-22.16	1.65 H	263	15.45	36.40
4	3282.00	46.09 AV	54.00	-7.91	1.65 H	263	9.70	36.40
5	4924.00	52.79 PK	74.00	-21.21	1.02 H	225	11.93	40.86
5	4924.00	39.79 AV	54.00	-14.21	1.02 H	225	-1.07	40.86

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1641.00	44.94 PK	74.00	-29.06	1.35 V	230	14.76	30.18
1	1641.00	39.63 AV	54.00	-14.37	1.35 V	230	9.45	30.18
2	*2462.00	101.55 PK			1.02 V	244	67.39	34.16
2	*2462.00	95.01 AV			1.02 V	244	60.85	34.16
3	2483.50	50.60 PK	74.00	-23.40	1.02 V	244	16.34	34.26
3	2483.50	44.06 AV	54.00	-9.94	1.02 V	244	9.80	34.26
4	3282.00	51.44 PK	74.00	-22.56	1.29 V	225	15.05	36.40
4	3282.00	45.77 AV	54.00	-8.23	1.29 V	225	9.38	36.40
5	4924.00	50.78 PK	74.00	-23.22	1.00 V	360	9.92	40.86
5	4924.00	38.68 AV	54.00	-15.32	1.00 V	360	-2.18	40.86

*(The test data is in accordance with ADT Report No.: RF930821L01.)

- 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, 2004

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

4.3.3 TEST PROCEDURE

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

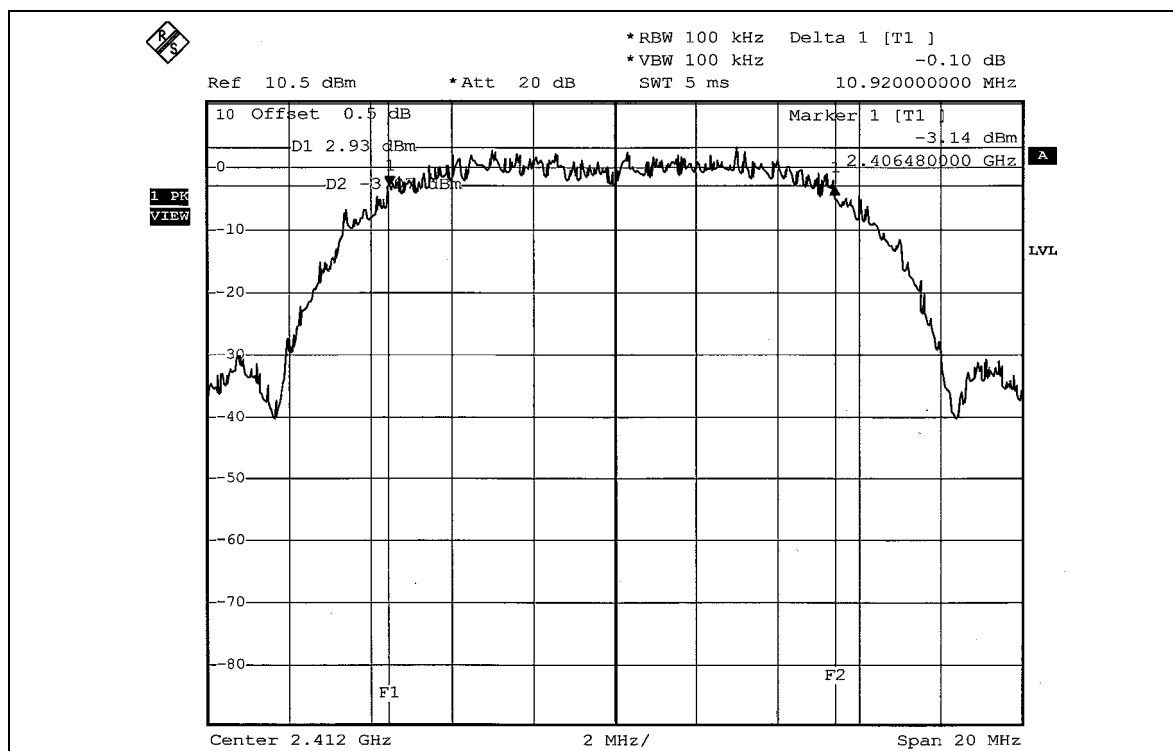
802.11b DSSS MODULATION

EUT	125 Mbps 802.11g Wireless Powerline Access Point	MODEL	EP-6800
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991hPa
TESTED BY	Rush Kao		

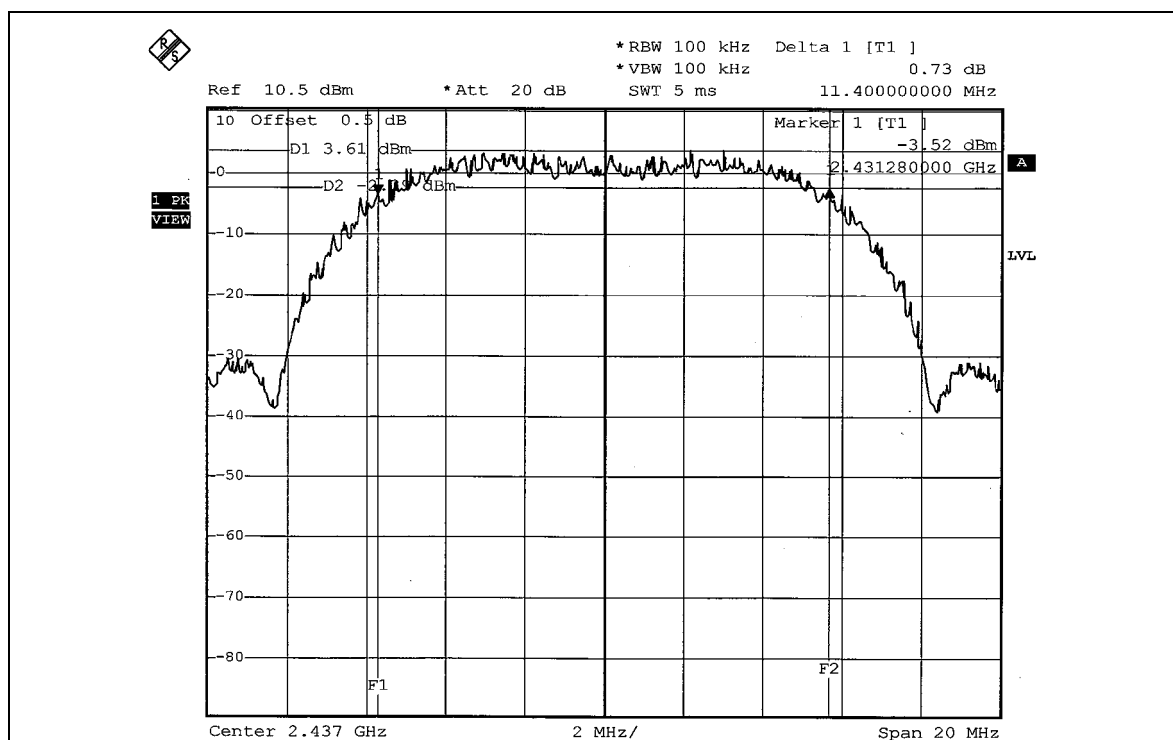
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.92	0.5	PASS
6	2437	11.40	0.5	PASS
11	2462	10.64	0.5	PASS

*(The test data is in accordance with ADT Report No.: RF930821L01.)

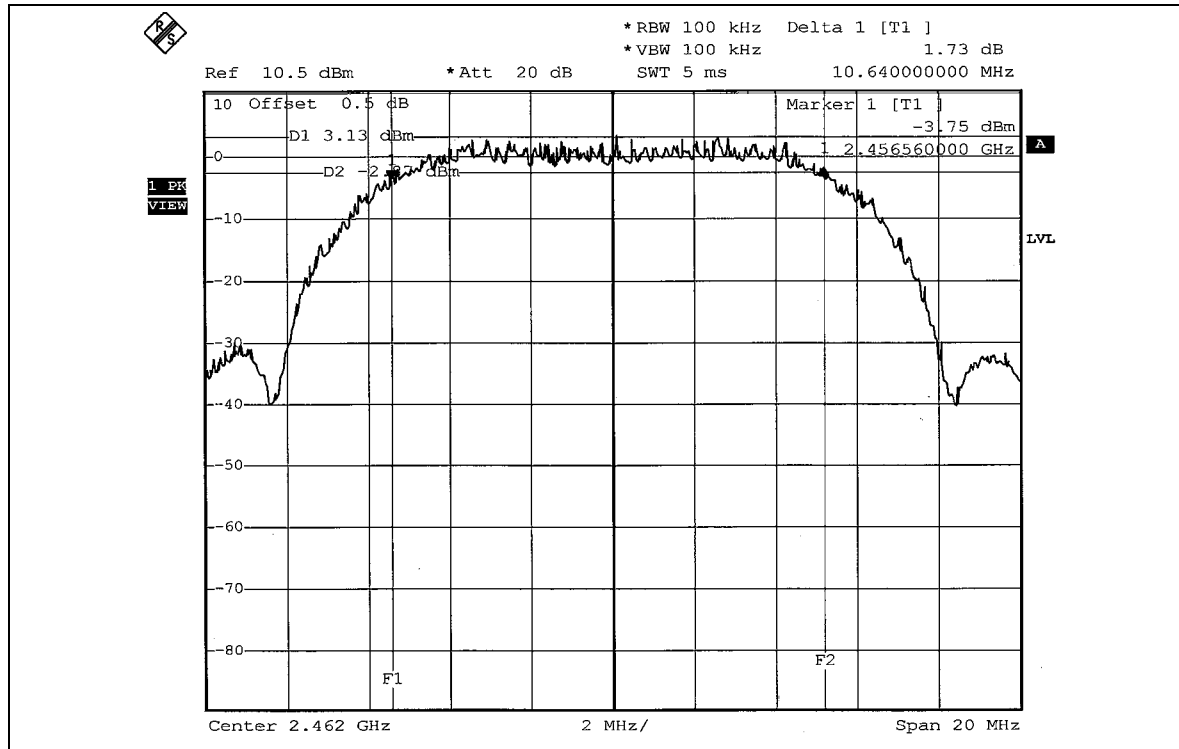
CH1



CH6



CH11



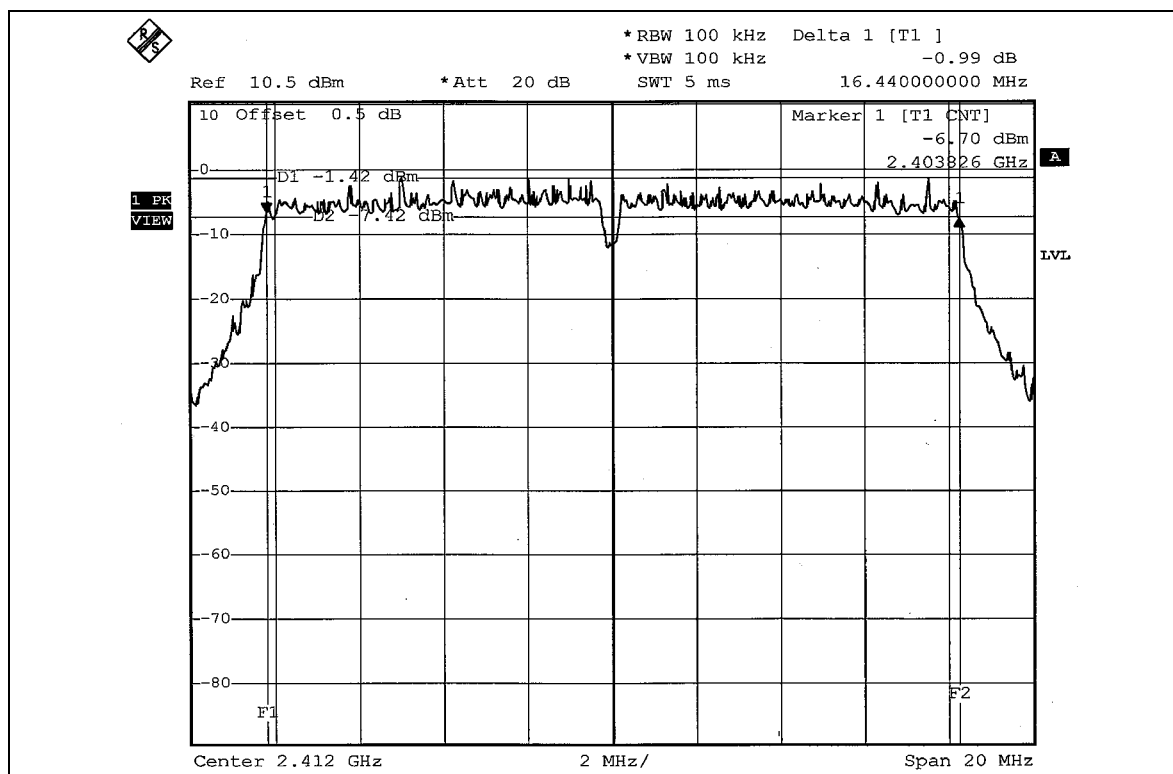
802.11g OFDM MODULATION

EUT	125 Mbps 802.11g Wireless Powerline Access Point	MODEL	EP-6800
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991hPa
TESTED BY	Rush Kao		

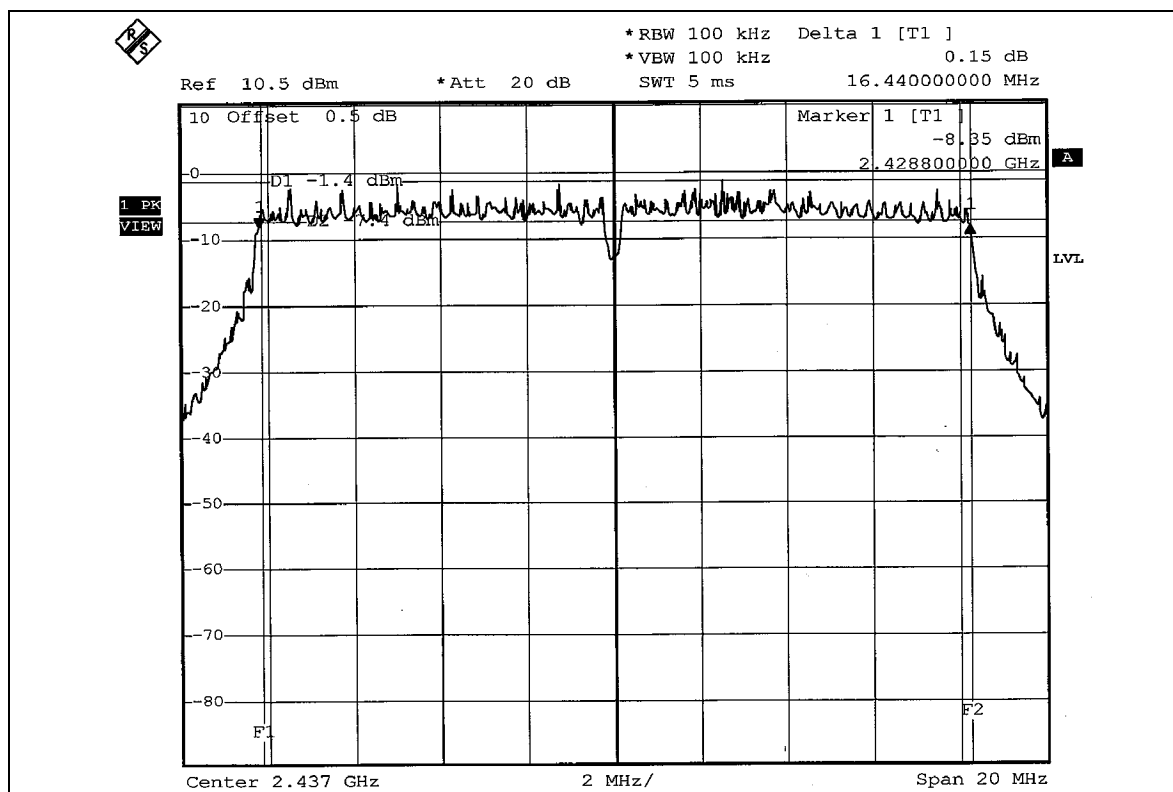
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.44	0.5	PASS
6	2437	16.44	0.5	PASS
11	2462	16.40	0.5	PASS

*(The test data is in accordance with ADT Report No.: RF930821L01)

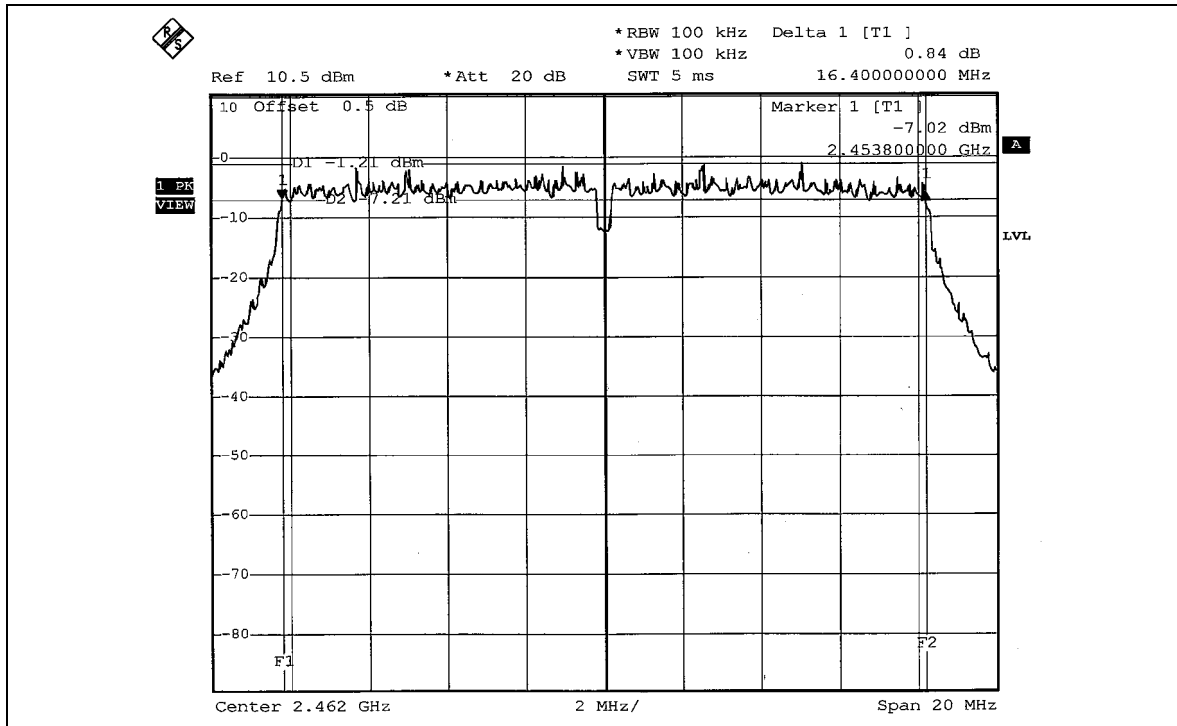
CH1



CH6



CH11



4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 31, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	C019167	Feb. 01, 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	125 Mbps 802.11g Wireless Powerline Access Point	MODEL	EP-6800
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991hPa
TESTED BY	Rush Kao		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	25.177	14.01	30	PASS
6	2437	25.293	14.03	30	PASS
11	2462	25.119	14.00	30	PASS

802.11g OFDM MODULATION

EUT	125 Mbps 802.11g Wireless Powerline Access Point	MODEL	EP-6800
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991hPa
TESTED BY	Rush Kao		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	25.119	14.00	30	PASS
6	2437	25.119	14.00	30	PASS
11	2462	25.351	14.04	30	PASS

*(The test data is in accordance with ADT Report No.: RF930821L01)

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, 2004

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

4.5.3 TEST PROCEDURE

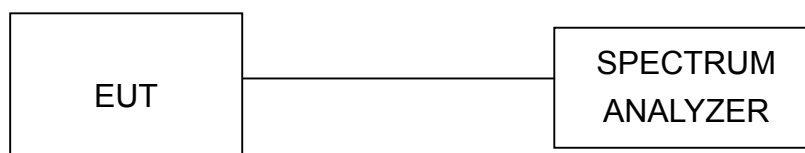
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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

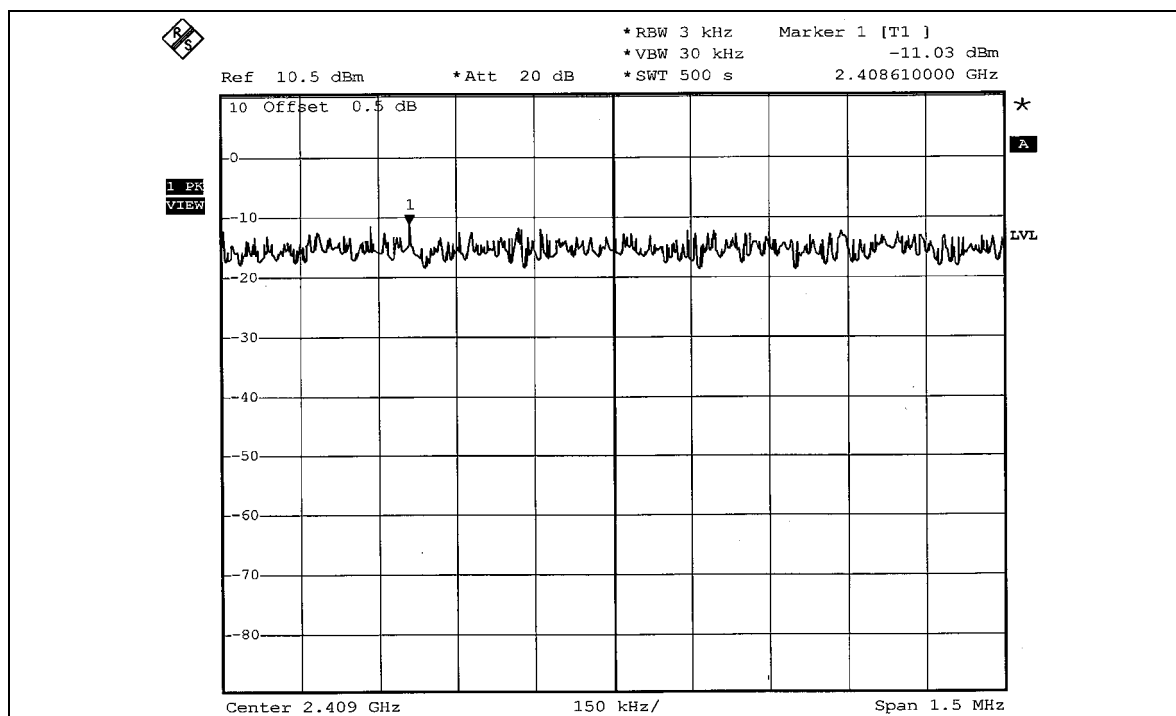
802.11b DSSS MODULATION

EUT	125 Mbps 802.11g Wireless Powerline Access Point	MODEL	EP-6800
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991hPa
TESTED BY	Rush Kao		

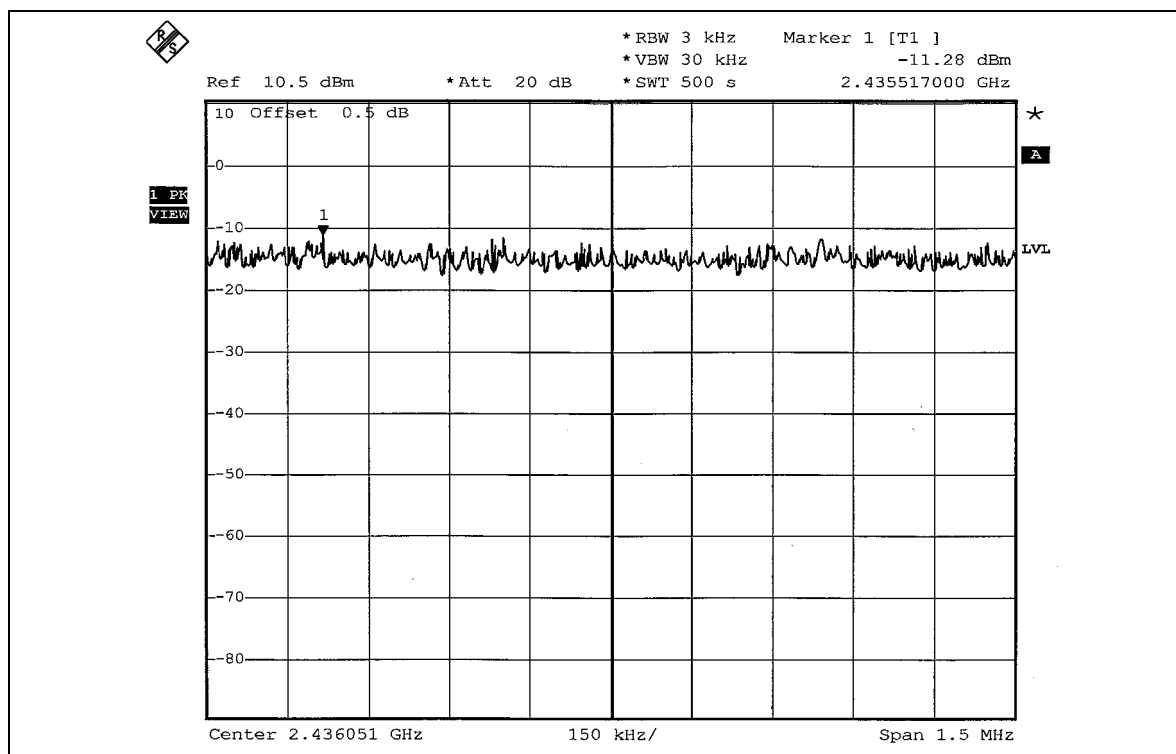
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.03	8	PASS
6	2437	-11.28	8	PASS
11	2462	-11.15	8	PASS

*(The test data is in accordance with ADT Report No.: RF930821L01)

CH1

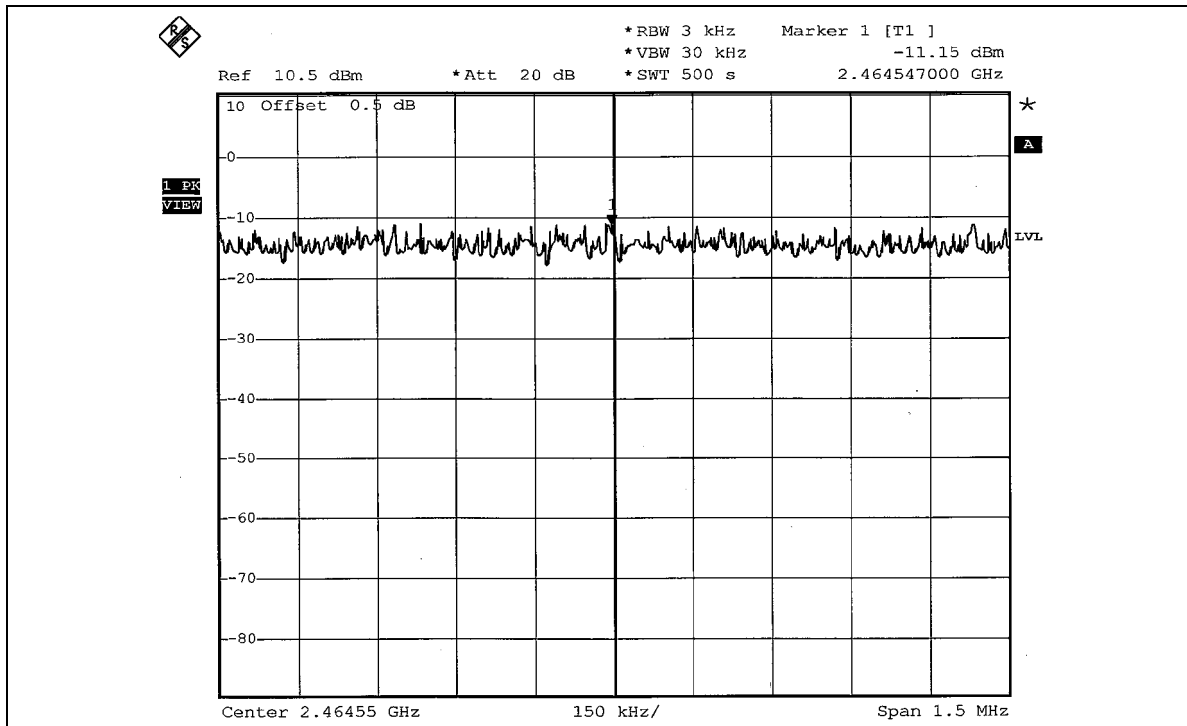


CH6





CH11





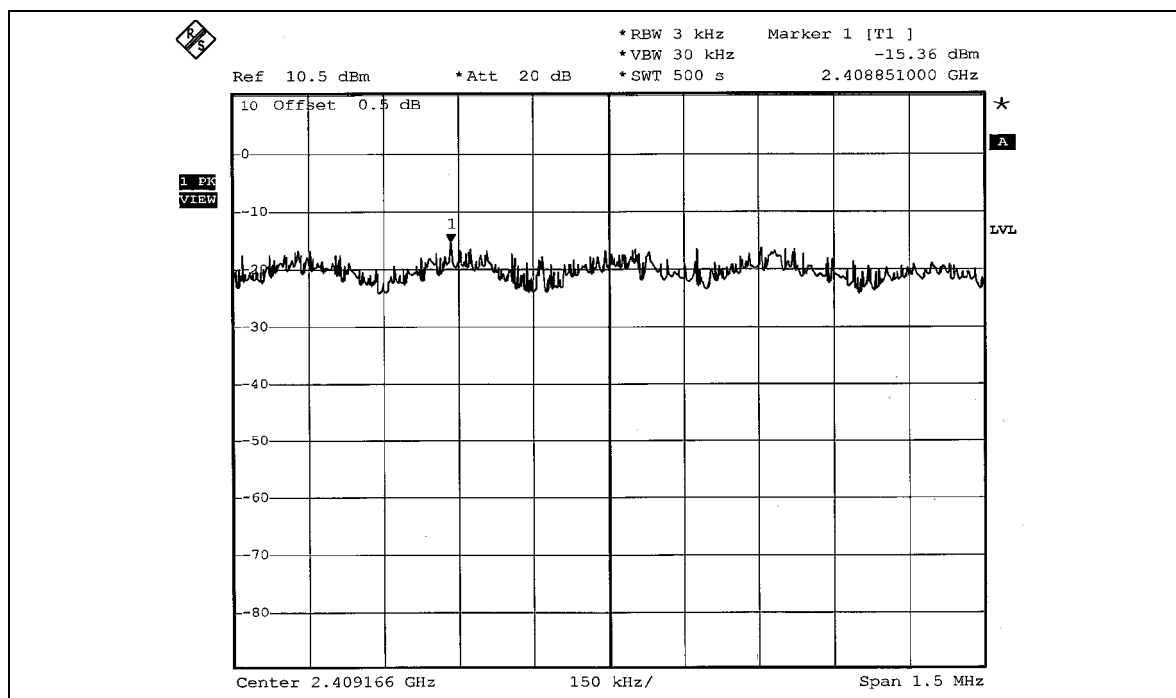
802.11g OFDM MODULATION

EUT	125 Mbps 802.11g Wireless Powerline Access Point	MODEL	EP-6800
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991hPa
TESTED BY	Rush Kao		

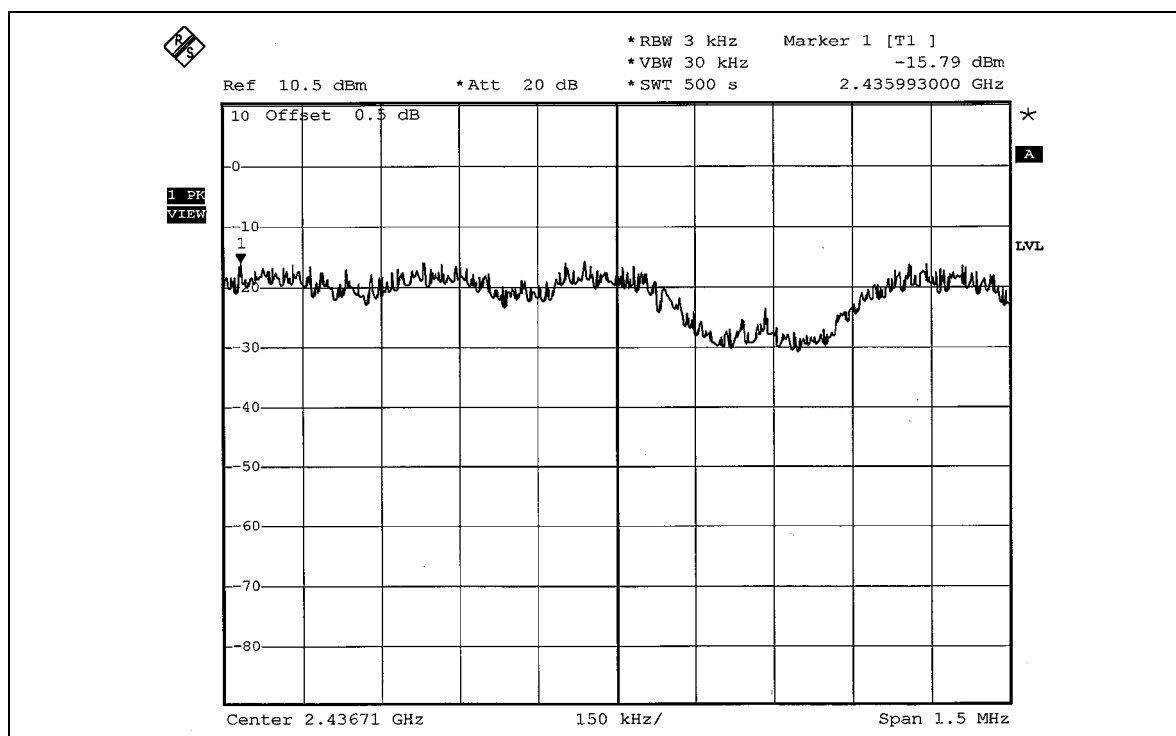
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-15.36	8	PASS
6	2437	-15.79	8	PASS
11	2462	-15.69	8	PASS

*(The test data is in accordance with ADT Report No.: RF930821L01)

CH1

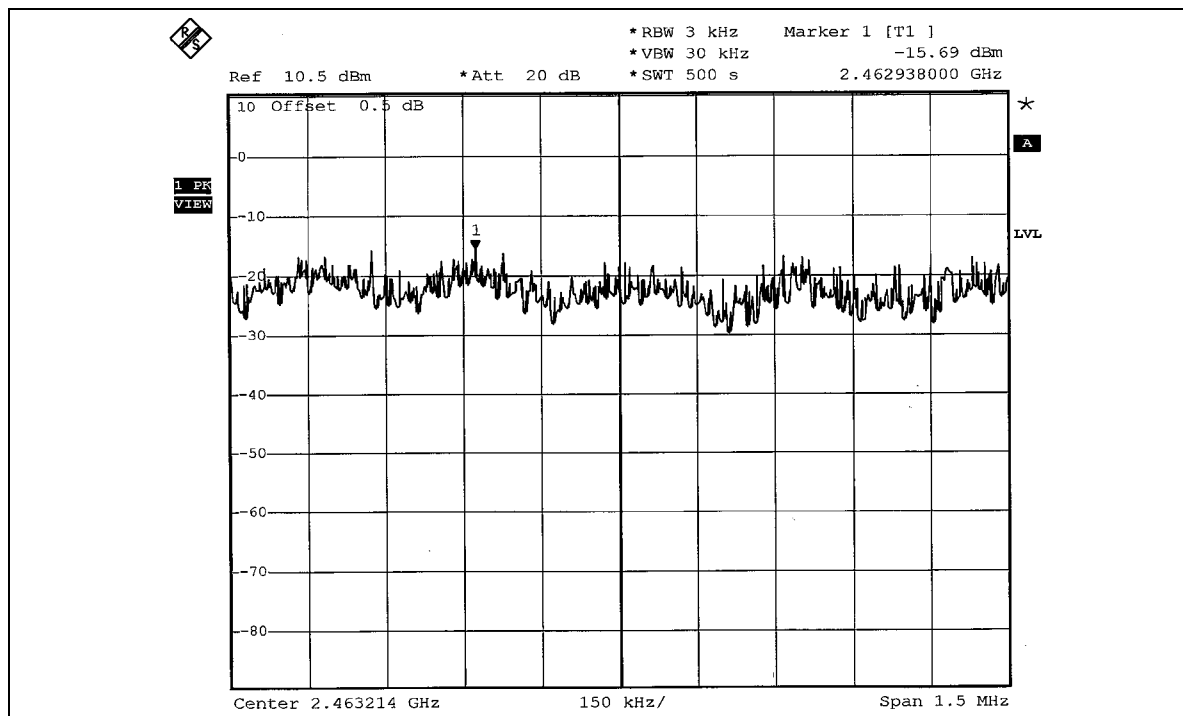


CH6





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, 2004

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

4.6.3 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=1kHz) 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).

802.11b DSSS MODULATION

NOTE 1:

The band edge emission plot on page 53 show 55.89dBc delta between carrier maximum power and local maximum emission in restrict band (2.3896GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.14dBuV/m (Peak), so the maximum field strength in restrict band is $105.14 - 55.89 = 49.25\text{dBuV/m}$, which is under 74dBuV/m limit.

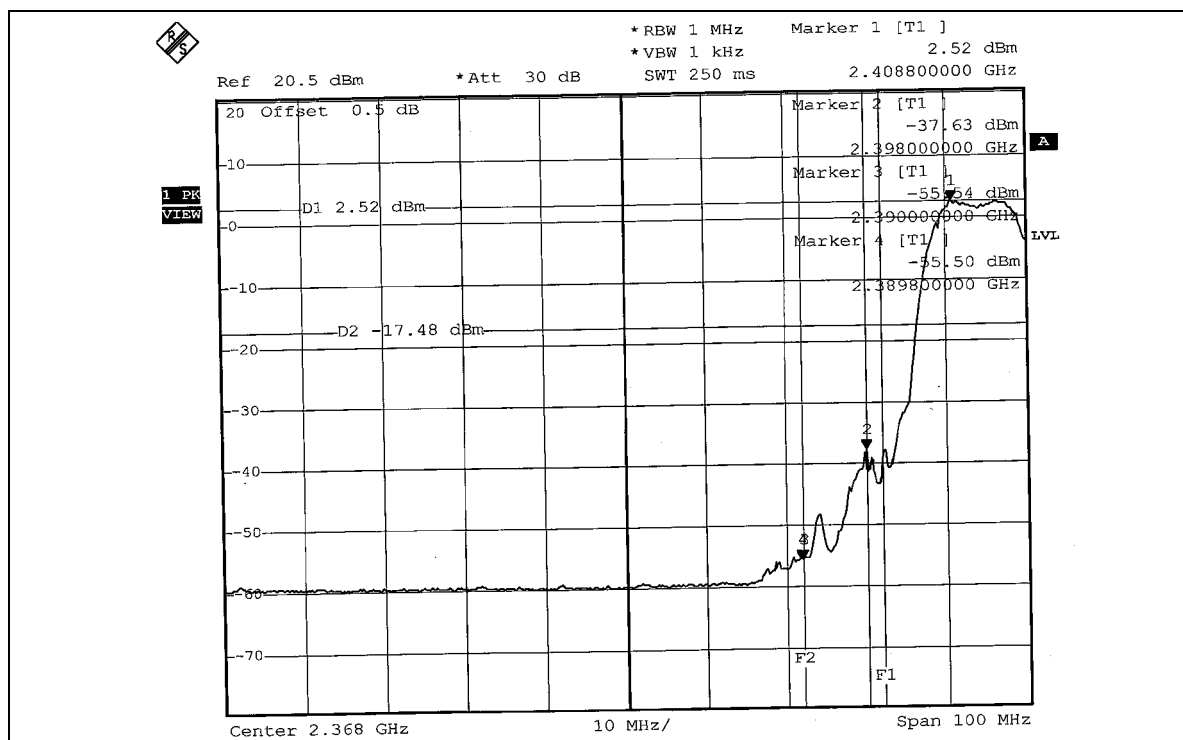
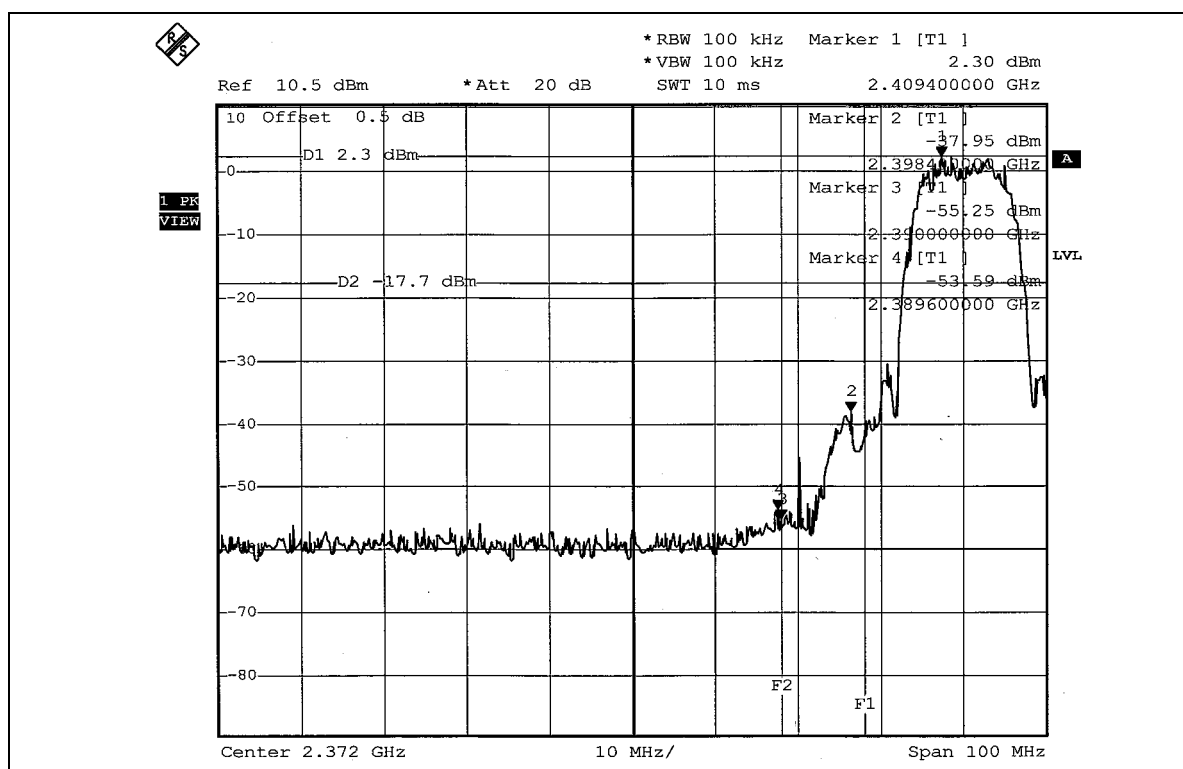
The band edge emission plot on page 53 show 58.02dBc delta between carrier maximum power and local maximum emission in restrict band (2.3898GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.57dBuV/m (Average), so the maximum field strength in restrict band is $99.57 - 58.02 = 41.55\text{dBuV/m}$, which is under 54dBuV/m limit.

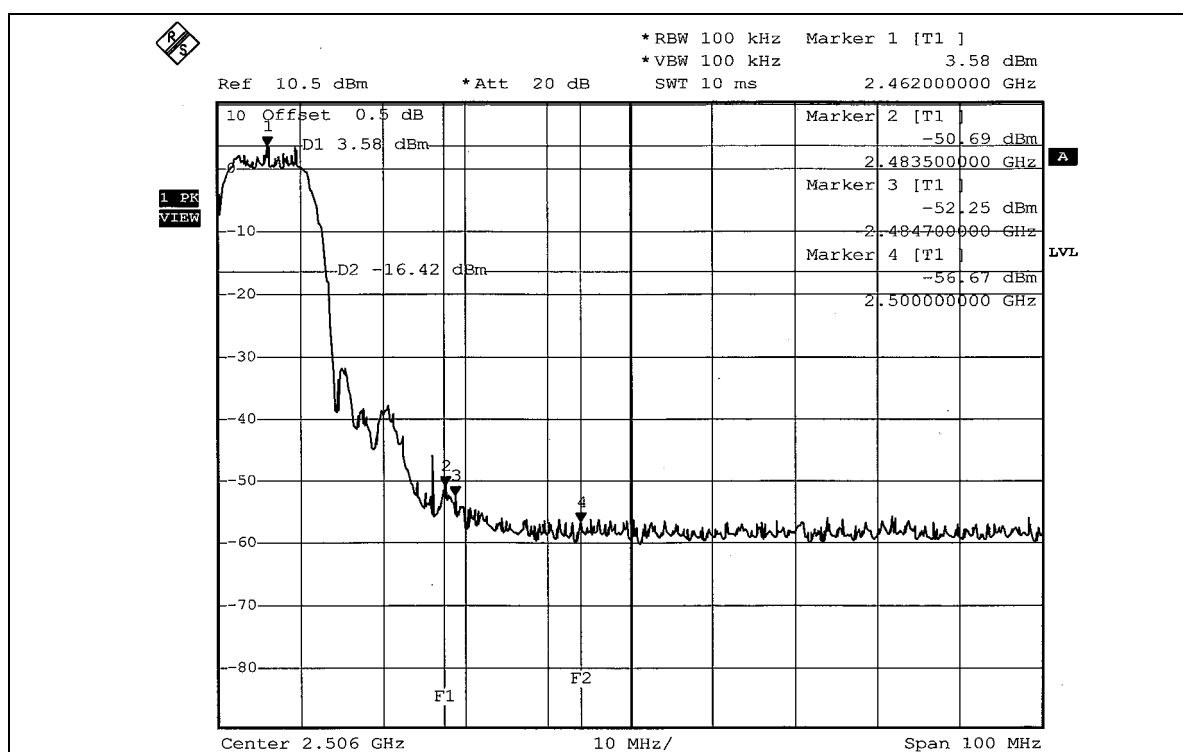
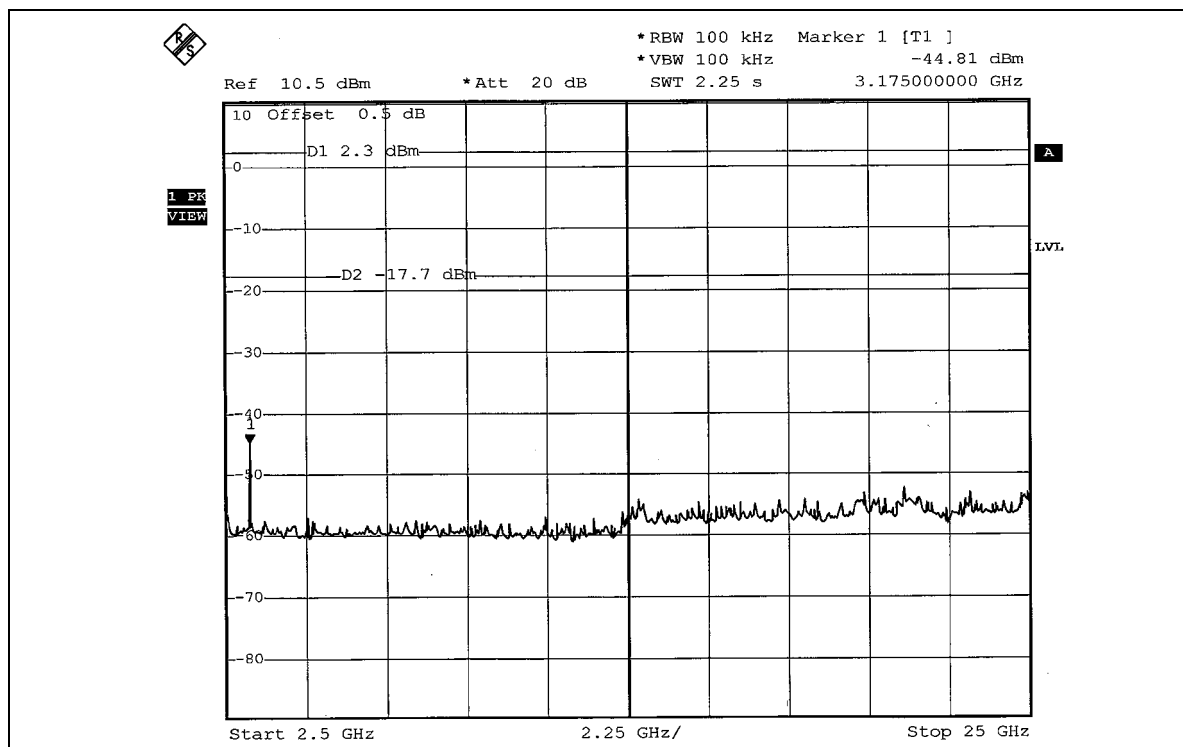
NOTE 2:

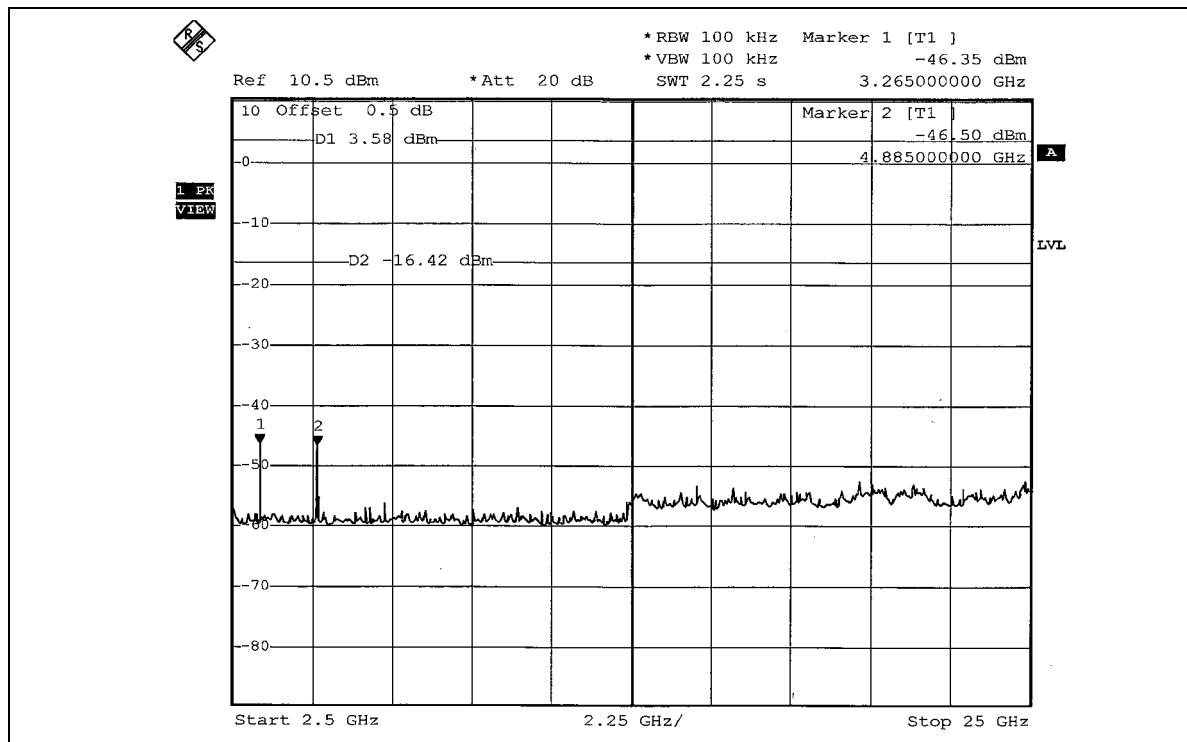
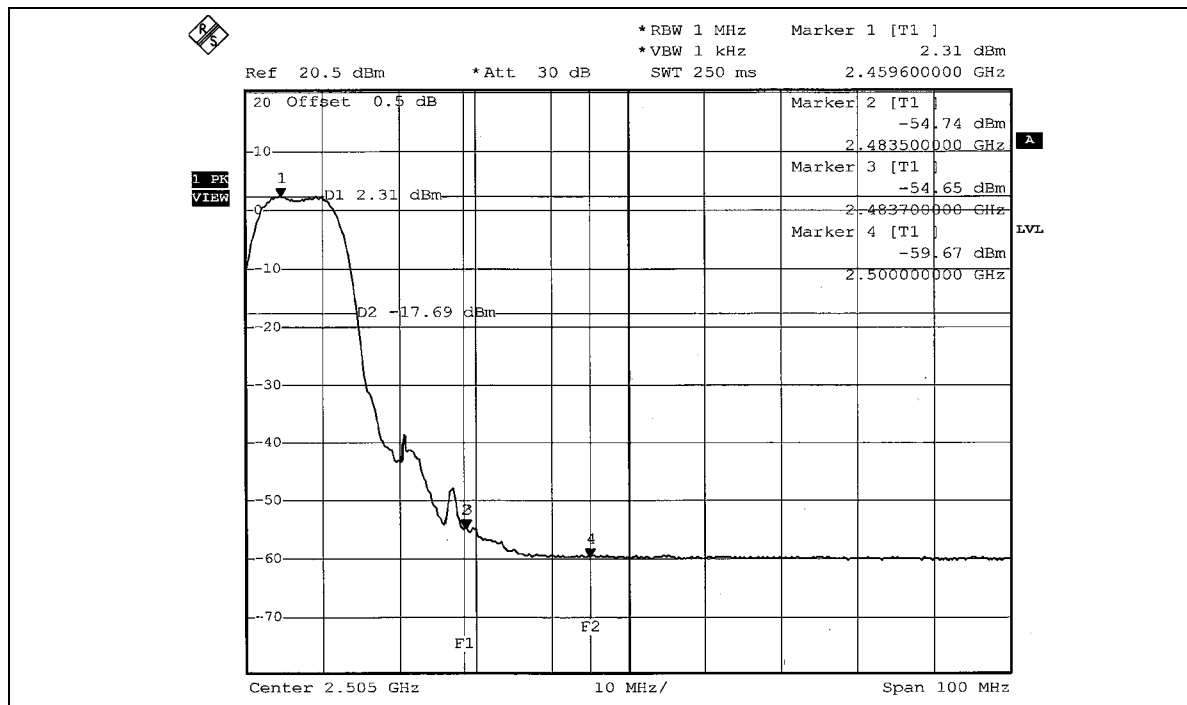
The band edge emission plot on the page 54 show 54.27dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.24dBuV/m (Peak), so the maximum field strength in restrict band is $105.24 - 54.27 = 50.97\text{dBuV/m}$, which is under 74dBuV/m limit.

The band edge emission plot on the page 55 show 56.96dBc delta between carrier maximum power and local maximum emission in restrict band (2.4837GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 100.22dBuV/m (Average), so the maximum field strength in restrict band is $100.22 - 56.96 = 43.26\text{dBuV/m}$, which is under 54dBuV/m limit.

*(The test data is in accordance with ADT Report No.: RF930821L01)







802.11g OFDM MODULATION

NOTE 1:

The band edge emission plot on page 57 show 48.73dBc delta between carrier maximum power and local maximum emission in restrict band (2.3896GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.22dBuV/m (Peak), so the maximum field strength in restrict band is $102.22 - 48.73 = 53.49\text{dBuV/m}$, which is under 74dBuV/m limit.

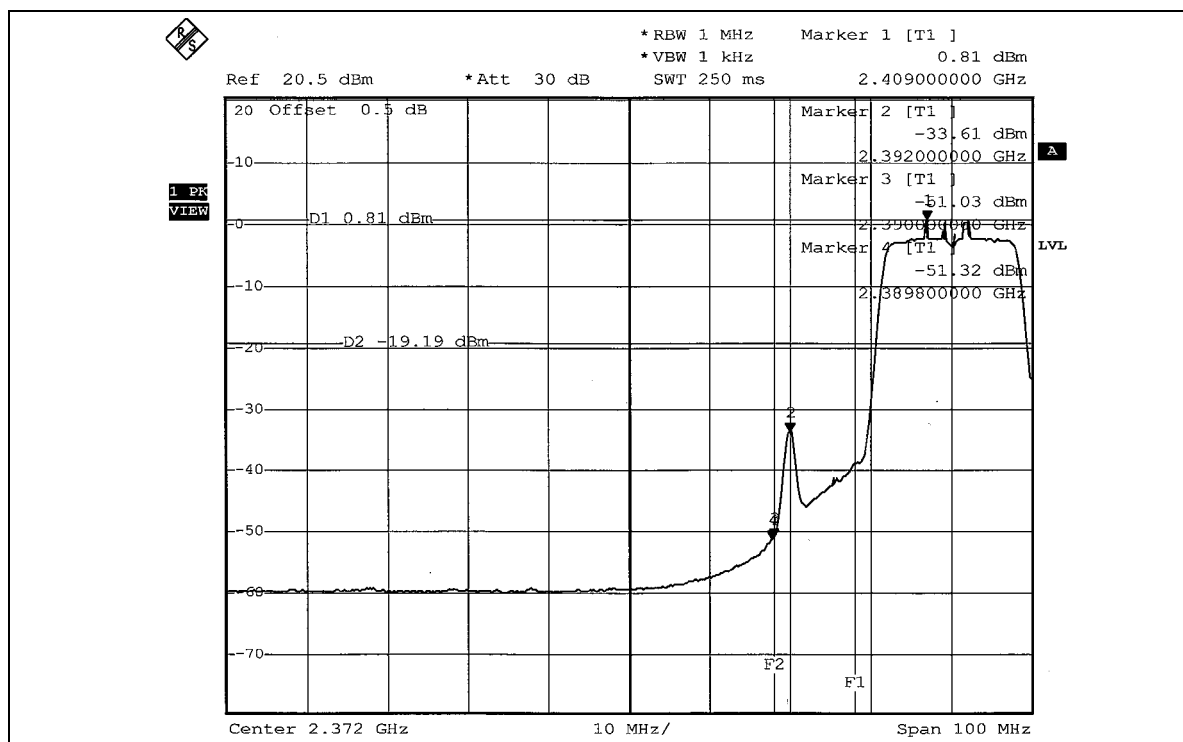
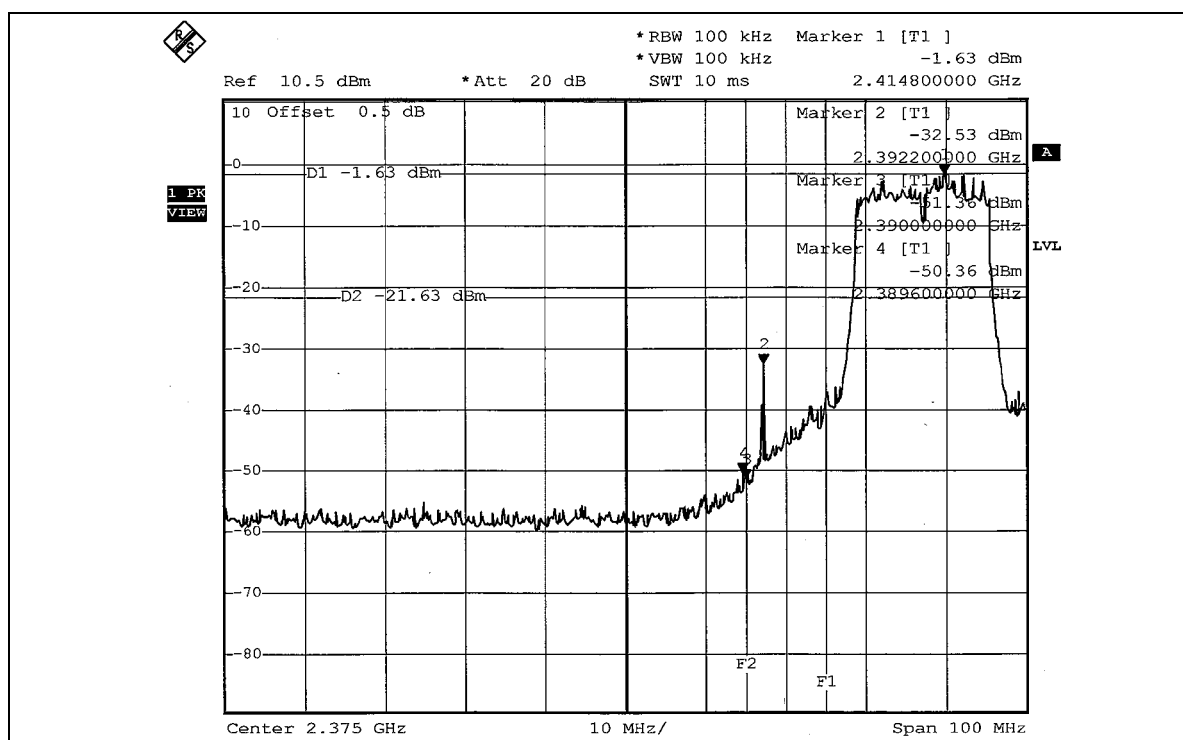
The band edge emission plot on page 57 show 51.84dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 95.21dBuV/m (Average), so the maximum field strength in restrict band is $95.21 - 51.84 = 43.37\text{dBuV/m}$, which is under 54dBuV/m limit.

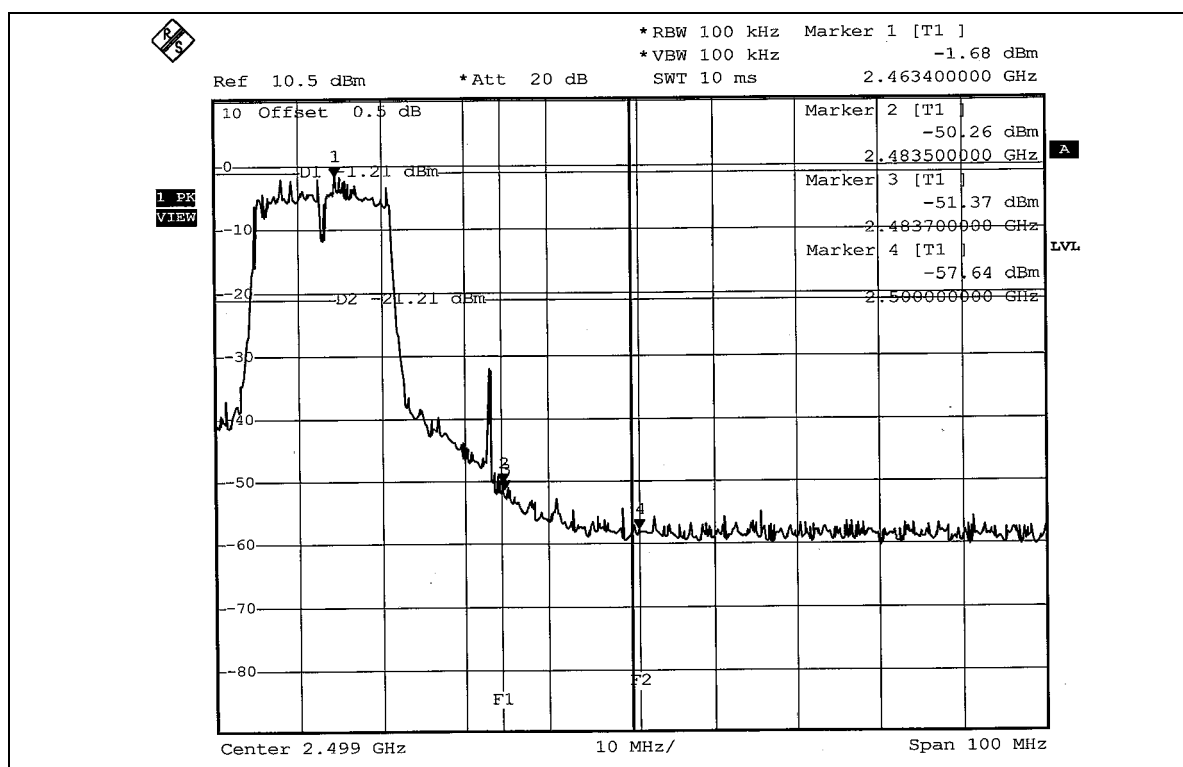
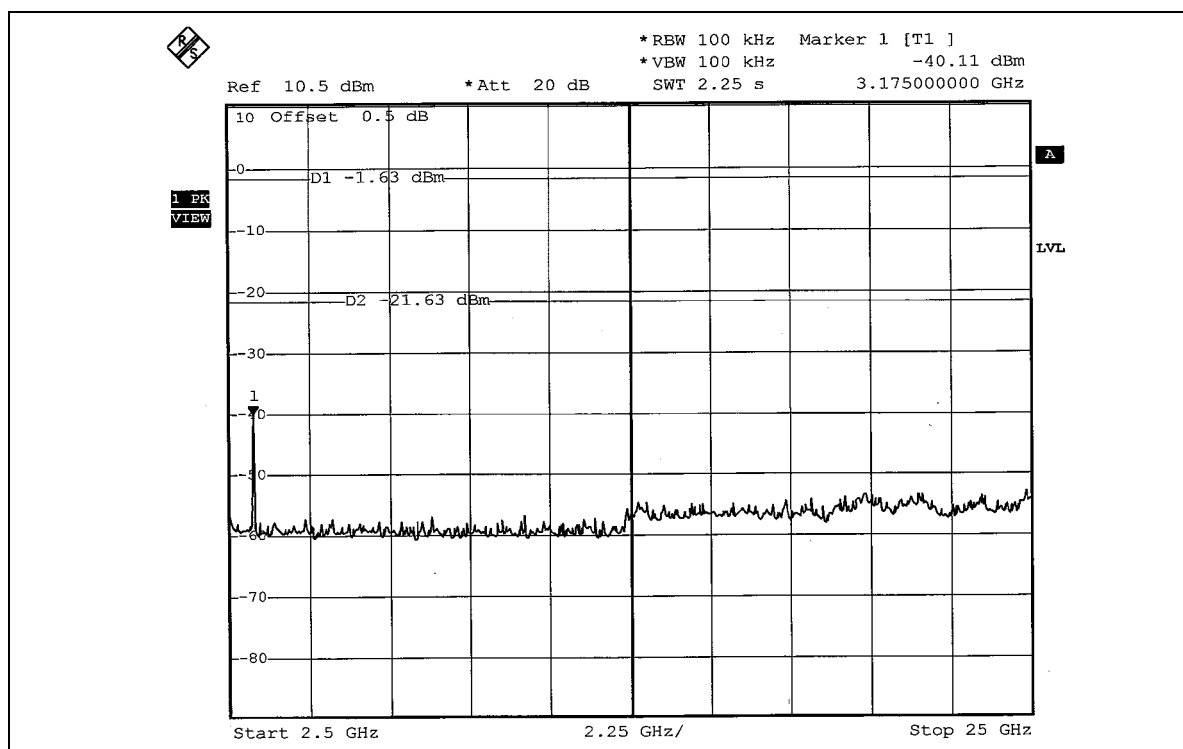
NOTE 2:

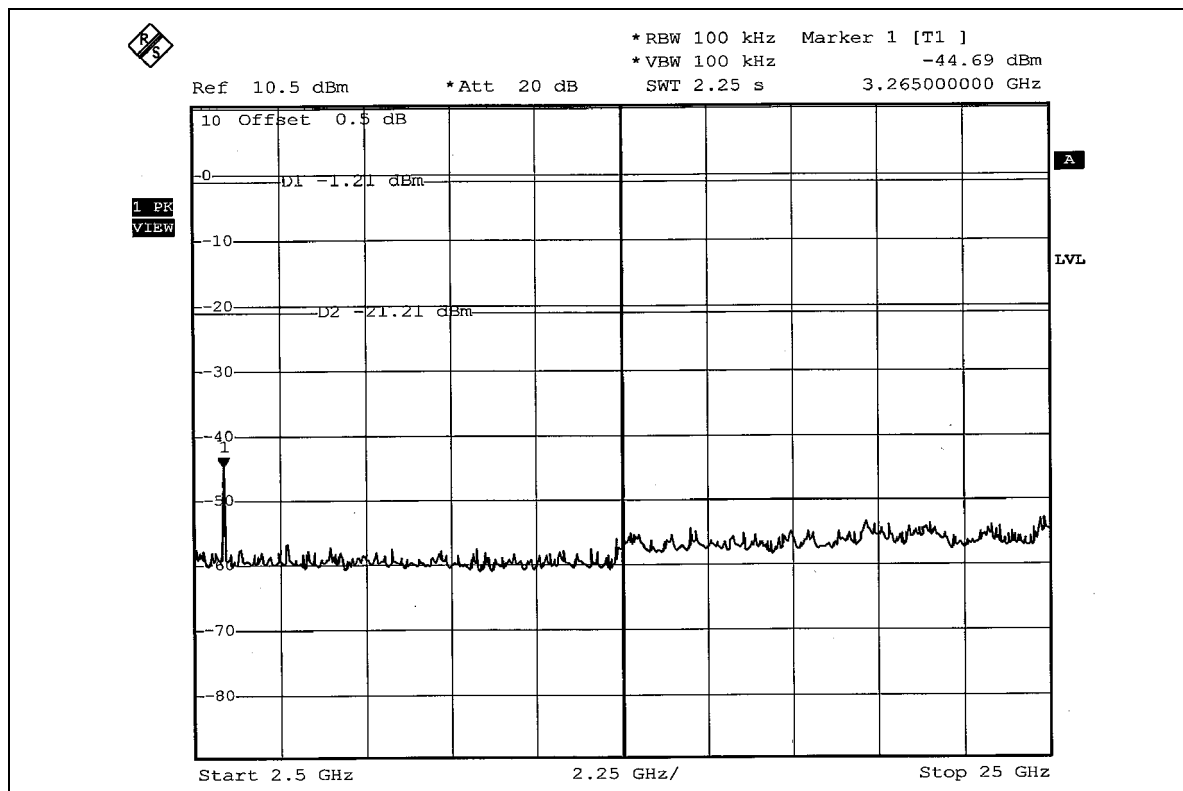
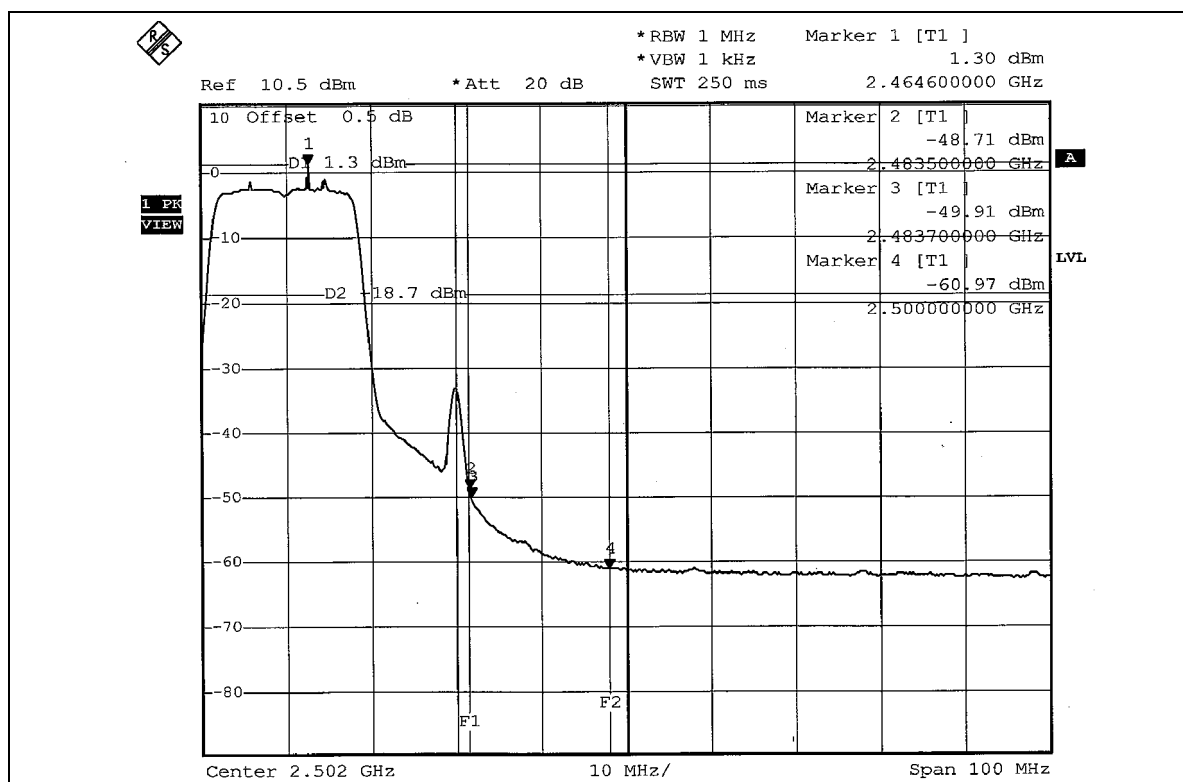
The band edge emission plot on the page 58 show 48.58dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.55dBuV/m (Peak), so the maximum field strength in restrict band is $101.55 - 48.58 = 52.97\text{dBuV/m}$, which is under 74dBuV/m limit.

The band edge emission plot on the page 59 show 50.01dBc 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 95.01dBuV/m (Average), so the maximum field strength in restrict band is $95.01 - 50.01 = 45.00\text{dBuV/m}$, which is under 54dBuV/m limit.

*(The test data is in accordance with ADT Report No.: RF930821L01)









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.

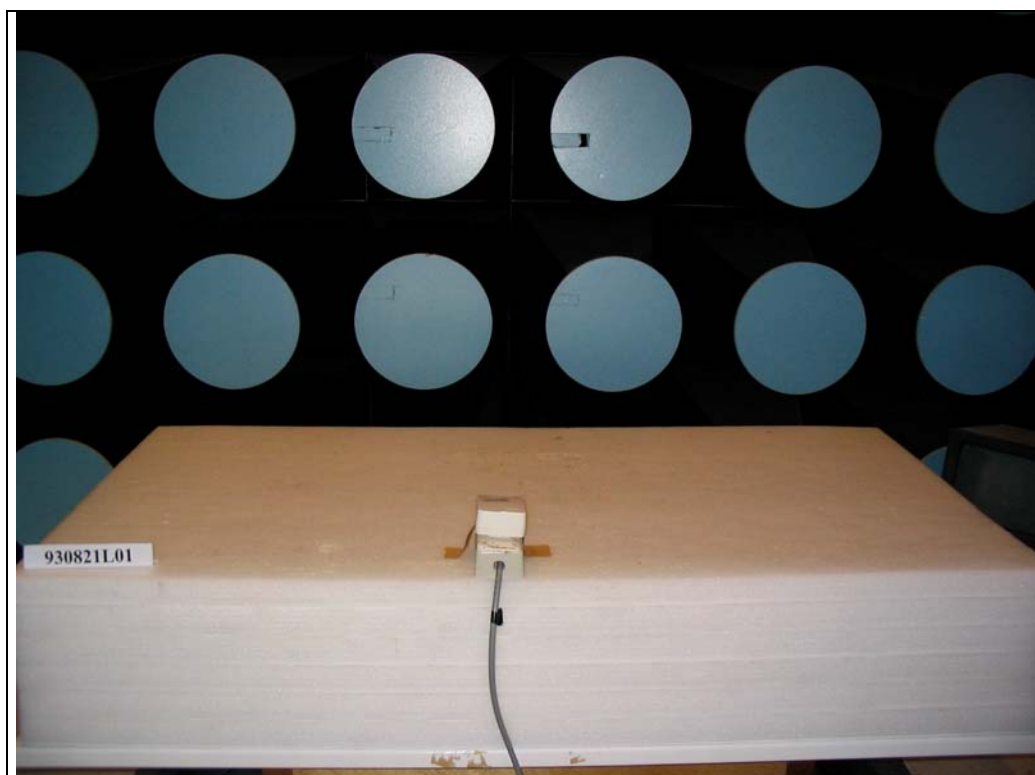
4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Inverted-F antenna without connector. And the maximum Gain of this antenna is 0dBi.

5. PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST



RADIATED EMISSION TEST



6. INFORMATION ON THE TESTING LABORATORIES

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

Linko EMC/RF Lab:

Tel: 886-2-26052180

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