FCC TEST REPORT (PART 15)

REPORT NO.: RF950109L04

MODEL NO.: HERM100

RECEIVED: Jan. 11, 2006

TESTED: Jan. 16 ~ Apr. 03, 2006

ISSUED: Apr. 06, 2006

APPLICANT: High Tech Computer Corp.

ADDRESS: 1F, 6-3, Bau-Chian Rd., Hsin Tien, Taipei, Taiwan, R.O.C.

ISSUED BY: Advance Data Technology Corporation

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

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NO. 2177-01

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1. CERTIFICATION

PRODUCT:	Pocket PC Phone
MODEL NO.:	HERM100
TEST SAMPLE:	ENGINEERING SAMPLE
TESTED:	Jan. 16 ~ Apr. 03, 2006
APPLICANT:	High Tech Computer Corp.
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	: Andrea Hsia	, **DATE:**	Apr. 06, 2006
TECHNICAL ACCEPTANCE Responsible for RF	: Long Chen	, **DATE:**	Apr. 06, 2006
APPROVED BY	: Gary Chang / Supervisor	, **DATE:**	Apr. 06, 2006

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 –8.22dB at 0.666MHz.
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 –2.54dB at 2390.00MHz.
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

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

PRODUCT	Pocket PC Phone
MODEL NO.	HERM100
FCC ID	NM8HERM100
POWER SUPPLY	3.70Vdc from rechargeable lithium battery 5.00Vdc from power adapter 5.15Vdc from power adapter 5.00Vdc from host equipment
MODULATION TYPE	Wireless LAN: CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM Bluetooth: GFSK for FHSS
MODULATION TECHNOLOGY	DSSS, OFDM, FHSS
TRANSFER RATE	Wireless LAN: 802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps Bluetooth: 723Kbps
FREQUENCY RANGE	Wireless LAN: 802.11b & 802.11g: 2.412 ~ 2.462GHz Bluetooth: 2.402 ~ 2.480GHz
NUMBER OF CHANNEL	Wireless LAN: 802.11b & 802.11g: 11 Bluetooth: 79
OUTPUT POWER	Wireless LAN: 39.902mW for 802.11b 50.466mW for 802.11g Bluetooth: 1.000mW
ANTENNA TYPE	Wireless LAN: PIFA antenna with -1.0dBi gain Bluetooth: PIFA antenna with -1.0dBi gain
DATA CABLE	1.2m USB shielded cable without core 1.7m non-shielded cable for earphone
I/O PORTS	Refer to user's manual
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT was designed with two functions. One with CCD and the other without CCD function.
2. The EUT is a GSM850/PCS1900/GPRS/E-GPRS Pocket PC Phone with wireless LAN and bluetooth functions. This report is only covered the functions of wireless LAN and bluetooth. The mobile phone function is covered in another two test reports, which standards used are FCC Part 24 and FCC Part 22.

3. The EUT have lithium battery listed as below:

STANDARD BATTERY:	
MODEL:	PA16A
RATING:	3.7Vdc, 1350mAh

4. The EUT was operated with following power adapters:

ADAPTER 1:	
BRAND:	TPT
MODEL:	JHA050100UU05
INPUT:	100-240Vac ~ 50-60Hz, 0.3A,
OUTPUT:	5.00Vdc, 1A
POWER LINE:	DC 1.8m non-shielded cable without core

ADAPTER 2:	
BRAND:	PHIHONG
MODEL:	PSAA05A-050
INPUT:	100~240Vac, 0.2A, 50-60Hz
OUTPUT:	5.15Vdc, 1A
POWER LINE:	DC 1.8m non-shielded cable without core

ADAPTER 3:	
BRAND:	Delta
MODEL:	ADP-5FH B
INPUT:	100-240Vdc ~ 0.2A, 50-60Hz
OUTPUT:	5.00Vdc, 1A
POWER LINE:	DC 1.8m non-shielded cable without core

5. The EUT operates in the 2.4GHz frequency spectrum and complies with 802.11b & 802.11g techniques.
6. 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

Since the EUT is considered a portable unit, it was pre-tested on the positioned of each 3 axis. For wireless LAN function, the worst case was found when positioned on Z-plane. Therefore only the test data of this Z-plane was used for radiated test.

There are 6 test modes presented in the report as below.

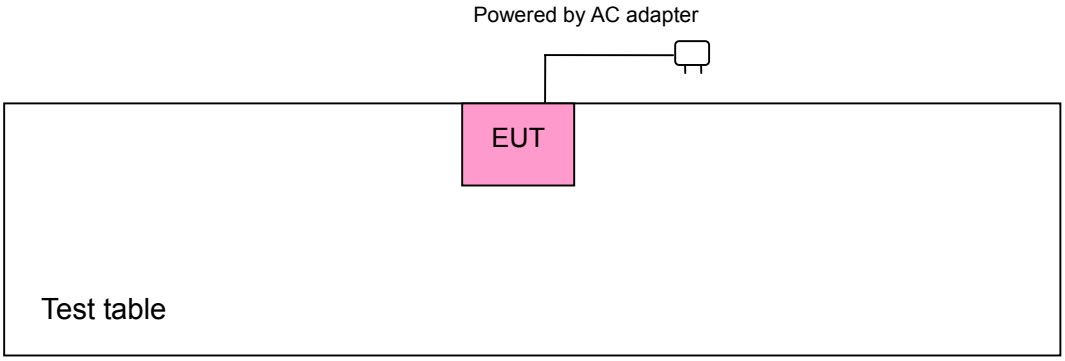
TEST MODE	TEST CONDITION
A	The EUT with standard battery connected, and was powered by the adapter 1 with CCD.
B	The EUT with standard battery connected, and was powered by the adapter 1 without CCD.
C	The EUT with standard battery connected, and was powered by the adapter 2 with CCD.
D	The EUT with standard battery connected, and was powered by the adapter 3 with CCD.
E	The EUT with standard battery connected with the earphone, and was powered by standard battery with CCD.
F	The EUT connected with notebook via USB cable with CCD.

11 channels are provided to the EUT for wireless LAN function:

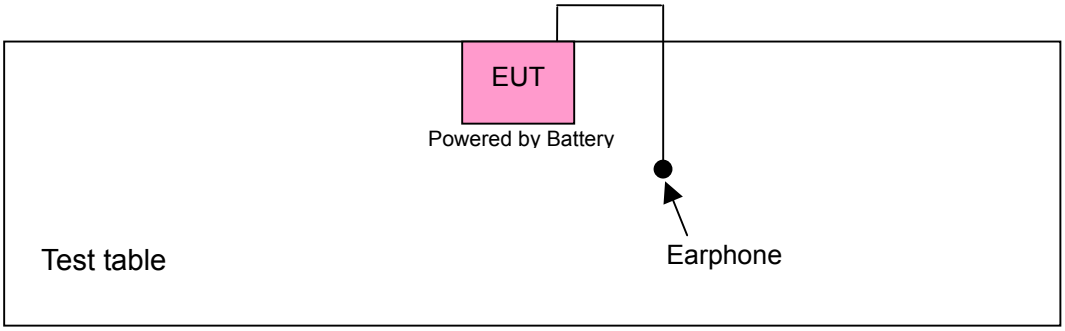
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

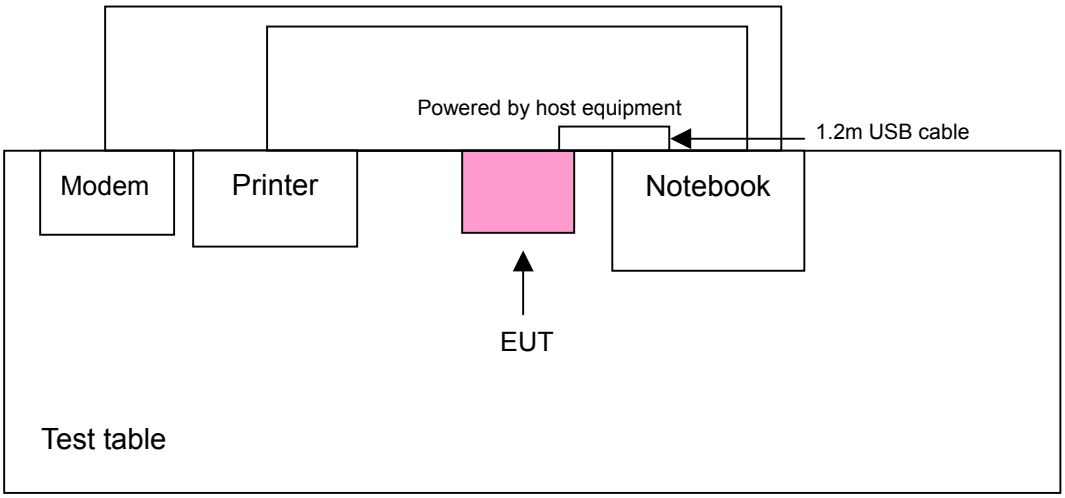
TEST MODE A, B, C, D



TEST MODE E



TEST MODE F



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE<1G	RE≥1G	APCM	
A	√	√	-	-	The EUT with standard battery connected, and was powered by the adapter 1 with CCD.
B	√	√	-	-	The EUT with standard battery connected, and was powered by the adapter 1 without CCD.
C	√	√	-	-	The EUT with standard battery connected, and was powered by the adapter 2 with CCD.
D	√	√	-	-	The EUT with standard battery connected, and was powered by the adapter 3 with CCD.
E	-	√	-	-	The EUT with standard battery connected with the earphone, and was powered by standard battery with CCD.
F	√	√	√	√	The EUT connected with notebook via USB cable with CCD.

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: "-" means no effect.

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	1 to 11	1, 6, 11	11g OFDM	BPSK	6
B	1 to 11	1, 6, 11	11g OFDM	BPSK	6
C	1 to 11	1, 6, 11	11g OFDM	BPSK	6
D	1 to 11	1, 6, 11	11g OFDM	BPSK	6
F	1 to 11	1, 6, 11	11g 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, antenna ports (if EUT with antenna diversity architecture), X, Y and Z Axis.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
A	1 to 11	11	11g OFDM	BPSK	6	Z
B	1 to 11	11	11g OFDM	BPSK	6	Z
C	1 to 11	11	11g OFDM	BPSK	6	Z
D	1 to 11	11	11g OFDM	BPSK	6	Z
E	1 to 11	11	11g OFDM	BPSK	6	Z
F	1 to 11	11	11g OFDM	BPSK	6	Z

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, antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
E	1 to 11	1, 6, 11	11b DSSS	DBPSK	1
E	1 to 11	1, 6, 11	11g 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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
1 to 11	1, 11	11b DSSS	DBPSK	1
1 to 11	1, 11	11g 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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
1 to 11	1, 6, 11	11b DSSS	DBPSK	1
1 to 11	1, 6, 11	11g OFDM	BPSK	6

3.3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. 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.

3.3.4 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	12130898320	E2K24CLNS
2	MODEM	ACEEX	1414V/3	0401008248	IFAXDM1414
3	PRINTER	EPSON	LQ-300+	DCGY047265	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2 m shielded cable without core
3	1.2 m shielded cable without core

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

4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	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. 11, 2006
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 06, 2007
LISN SCHWARZBECK	NNBL 8226-2	8226-142	May 02, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 07, 2007
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.

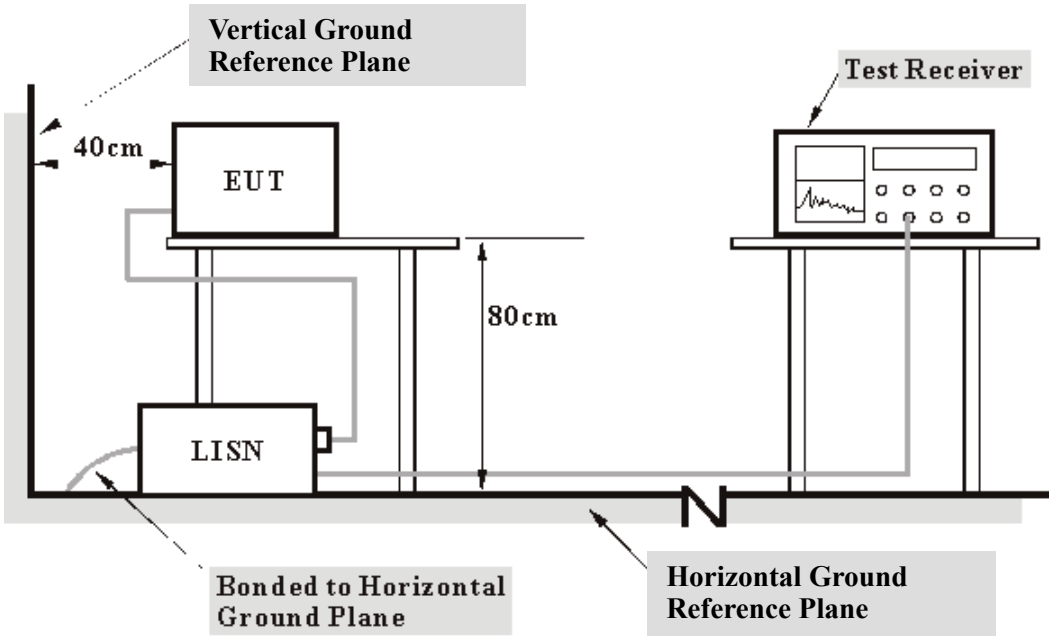
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

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

TEST MODE A ~ D:

The EUT placed on the testing table and set it under transmission condition continuously at specific channel frequency.

TEST MODE E:

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

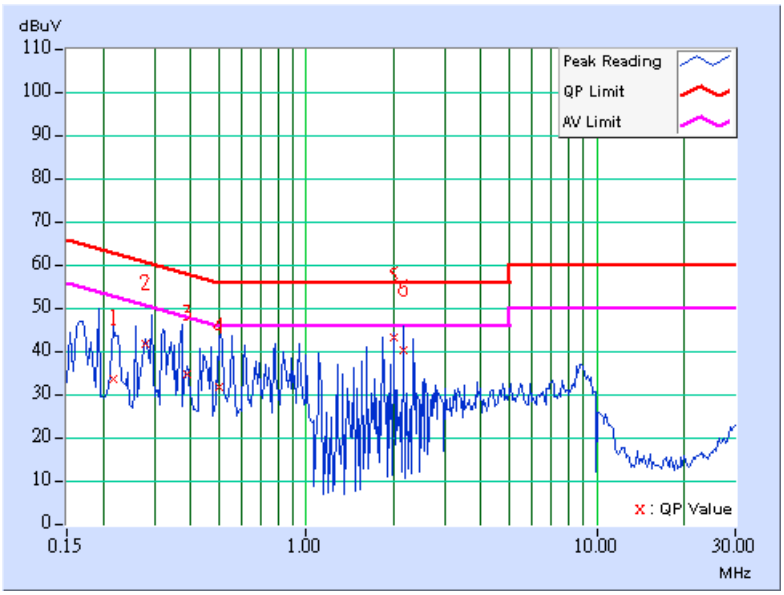
4.1.7 TEST RESULTS

CONDUCTED WORST CASE DATA (FOR ADAPTER: JHA050100UU05 WITH CCD):

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	**PHASE**	Line 1
MODULATION TYPE	BPSK	**6dB BANDWIDTH**	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TRANSFER RATE	6Mbps	**TEST MODE**	A
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.216	0.10	33.56	-	33.66	-	62.96	52.96	-29.30	-
2	0.278	0.10	41.54	-	41.64	-	60.87	50.87	-19.23	-
3	0.388	0.10	34.57	-	34.67	-	58.11	48.11	-23.44	-
4	0.504	0.12	31.61	-	31.73	-	56.00	46.00	-24.27	-
5	2.000	0.20	43.01	-	43.21	-	56.00	46.00	-12.79	-
6	2.172	0.22	40.31	-	40.53	-	56.00	46.00	-15.47	-

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.

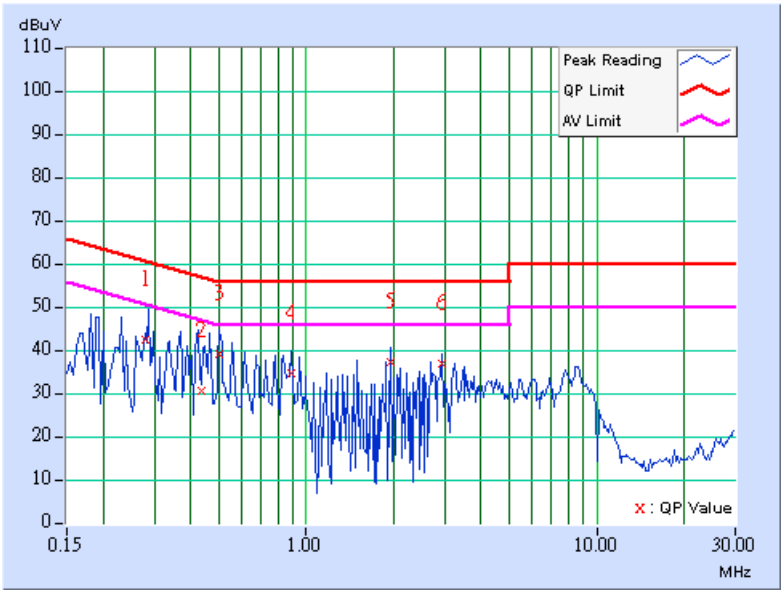


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	A
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.280	0.10	42.13	-	42.23	-	60.81	50.81	-18.58	-
2	0.439	0.11	30.45	-	30.56	-	57.09	47.09	-26.53	-
3	0.502	0.12	38.86	-	38.98	-	56.00	46.00	-17.02	-
4	0.892	0.18	34.54	-	34.72	-	56.00	46.00	-21.28	-
5	1.949	0.20	37.08	-	37.28	-	56.00	46.00	-18.72	-
6	2.949	0.33	36.71	-	37.04	-	56.00	46.00	-18.96	-

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.

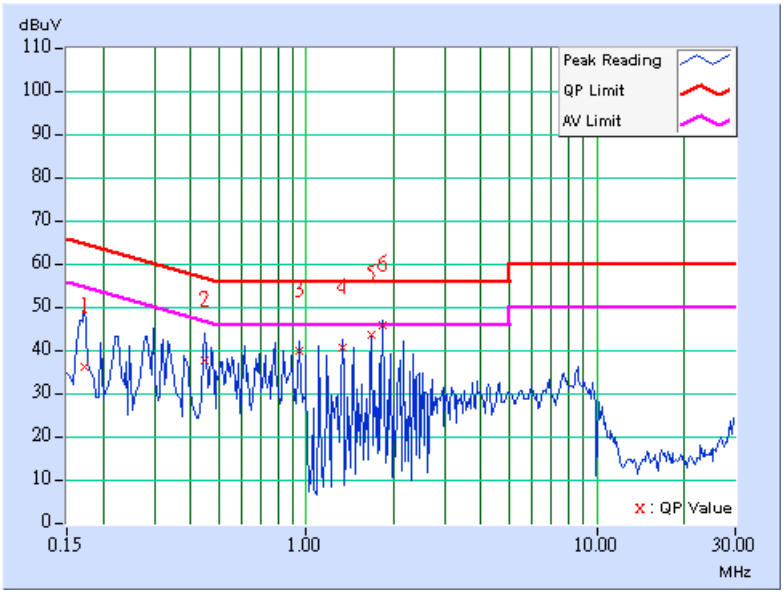


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	A
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.10	36.05	-	36.15	-	64.79	54.79	-28.64	-
2	0.447	0.11	37.75	-	37.86	-	56.93	46.93	-19.08	-
3	0.947	0.19	39.91	-	40.10	-	56.00	46.00	-15.90	-
4	1.332	0.20	40.72	-	40.92	-	56.00	46.00	-15.08	-
5	1.672	0.20	43.38	-	43.58	-	56.00	46.00	-12.42	-
6	1.836	0.20	45.83	33.53	46.03	33.73	56.00	46.00	-9.97	-12.27

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

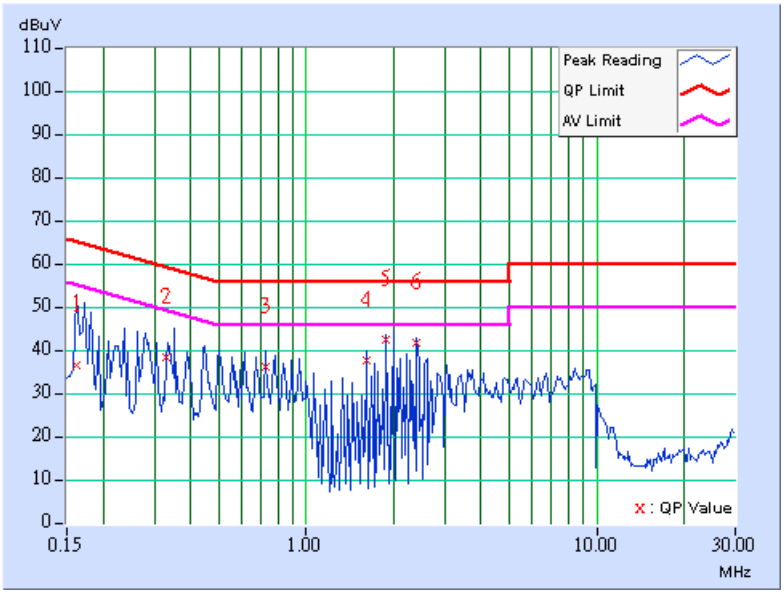
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value.
5. Correction factor = Insertion loss + Cable loss.
6. Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	A
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	36.41	-	36.51	-	65.38	55.38	-28.87	-
2	0.332	0.10	38.41	-	38.51	-	59.41	49.41	-20.90	-
3	0.724	0.15	36.07	-	36.22	-	56.00	46.00	-19.78	-
4	1.613	0.20	37.50	-	37.70	-	56.00	46.00	-18.30	-
5	1.891	0.20	42.31	-	42.51	-	56.00	46.00	-13.49	-
6	2.395	0.25	41.71	-	41.96	-	56.00	46.00	-14.04	-

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.

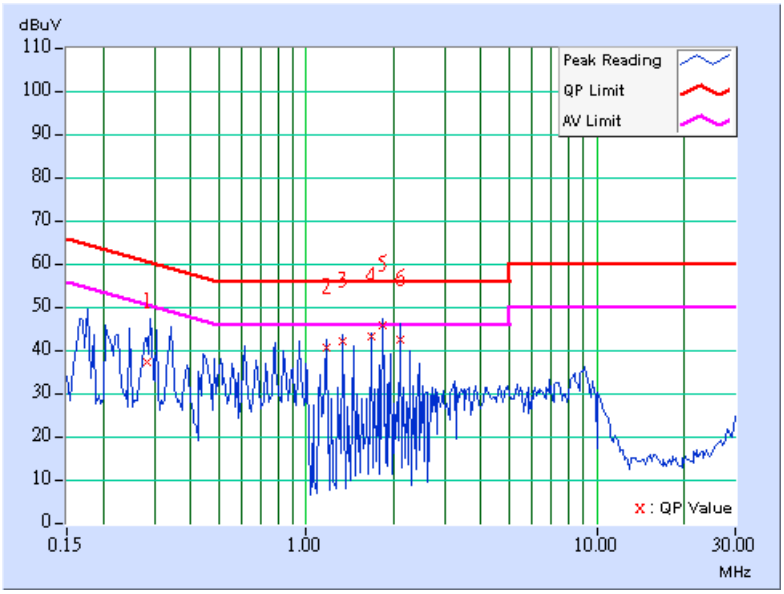


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	A
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.283	0.10	37.02	-	37.12	-	60.73	50.73	-23.61	-
2	1.168	0.20	40.65	-	40.85	-	56.00	46.00	-15.15	-
3	1.336	0.20	41.99	-	42.19	-	56.00	46.00	-13.81	-
4	1.672	0.20	43.15	-	43.35	-	56.00	46.00	-12.65	-
5	1.836	0.20	45.73	-	45.93	-	56.00	46.00	-10.07	-
6	2.117	0.22	42.37	-	42.59	-	56.00	46.00	-13.41	-

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.

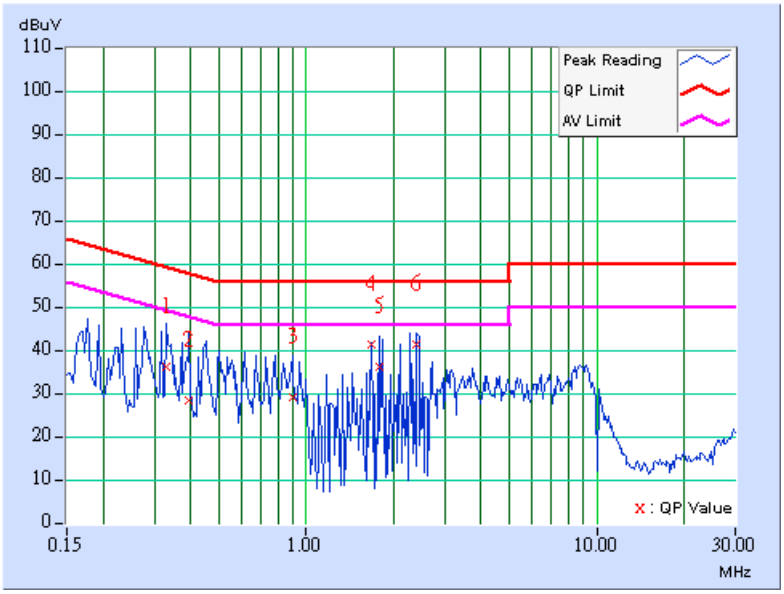


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	A
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.330	0.10	36.01	-	36.11	-	59.46	49.46	-23.35	-
2	0.396	0.10	28.37	-	28.47	-	57.93	47.93	-29.46	-
3	0.896	0.18	28.94	-	29.12	-	56.00	46.00	-26.88	-
4	1.668	0.20	41.15	-	41.35	-	56.00	46.00	-14.65	-
5	1.777	0.20	36.00	-	36.20	-	56.00	46.00	-19.80	-
6	2.395	0.25	41.25	-	41.50	-	56.00	46.00	-14.50	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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

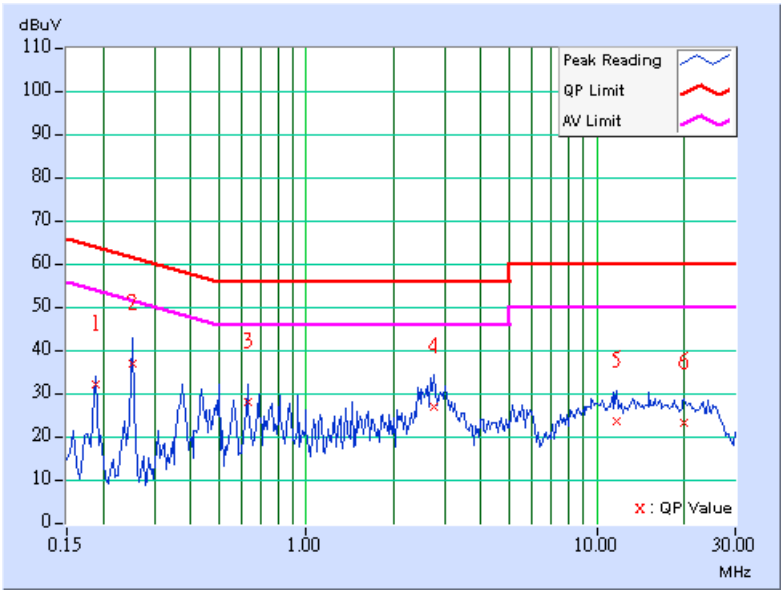


CONDUCTED WORST CASE DATA (FOR ADAPTER: JHA050100UU05 WITHOUT CCD):

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	B
TESTED BY	Long Chen		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	31.80	-	31.90	-	64.08	54.08	-32.18	-
2	0.252	0.10	36.63	-	36.73	-	61.71	51.71	-24.98	-
3	0.627	0.10	27.45	-	27.55	-	56.00	46.00	-28.45	-
4	2.750	0.26	26.61	-	26.87	-	56.00	46.00	-29.13	-
5	11.670	0.45	23.01	-	23.46	-	60.00	50.00	-36.54	-
6	20.025	0.56	22.77	-	23.33	-	60.00	50.00	-36.67	-

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.

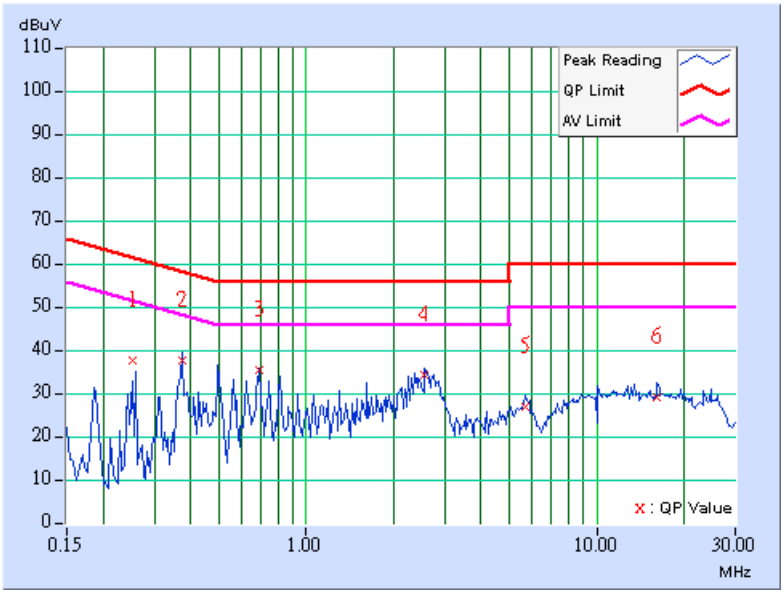


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	B
TESTED BY	Long Chen		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.252	0.10	37.06	-	37.16	-	61.70	51.70	-24.54	-
2	0.373	0.10	37.06	-	37.16	-	58.44	48.44	-21.28	-
3	0.685	0.15	34.82	-	34.97	-	56.00	46.00	-21.03	-
4	2.556	0.25	33.66	-	33.91	-	56.00	46.00	-22.09	-
5	5.675	0.40	26.59	-	26.99	-	60.00	50.00	-33.01	-
6	16.148	0.61	28.64	-	29.25	-	60.00	50.00	-30.75	-

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.

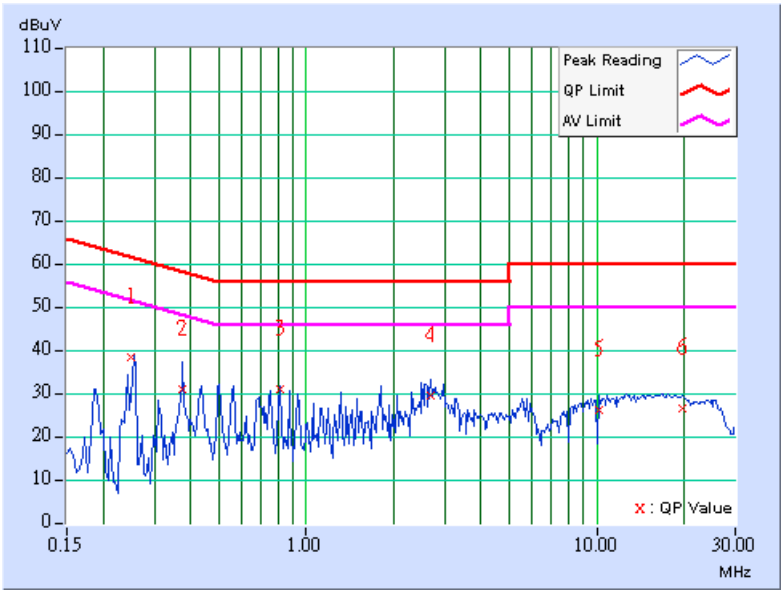


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	B
TESTED BY	Long Chen		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.250	0.10	37.91	-	38.01	-	61.74	51.74	-23.73	-
2	0.377	0.10	30.56	-	30.66	-	58.35	48.35	-27.69	-
3	0.810	0.10	30.38	-	30.48	-	56.00	46.00	-25.52	-
4	2.676	0.26	29.05	-	29.31	-	56.00	46.00	-26.69	-
5	10.156	0.37	25.60	-	25.97	-	60.00	50.00	-34.03	-
6	19.750	0.56	26.08	-	26.64	-	60.00	50.00	-33.36	-

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.

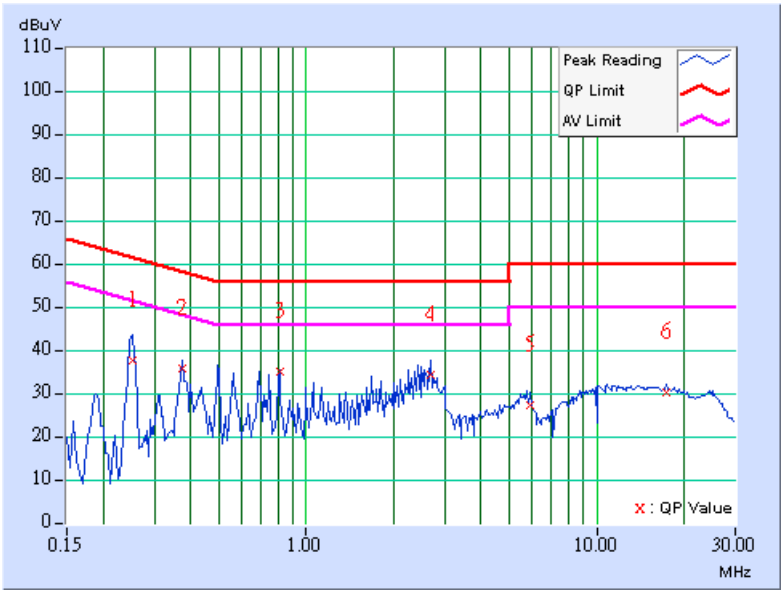


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	B
TESTED BY	Long Chen		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.252	0.10	37.30	-	37.40	-	61.71	51.71	-24.31	-
2	0.377	0.10	35.29	-	35.39	-	58.35	48.35	-22.96	-
3	0.810	0.17	34.41	-	34.58	-	56.00	46.00	-21.42	-
4	2.680	0.26	34.03	-	34.29	-	56.00	46.00	-21.71	-
5	5.922	0.40	26.86	-	27.26	-	60.00	50.00	-32.74	-
6	17.324	0.60	29.76	-	30.36	-	60.00	50.00	-29.64	-

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.

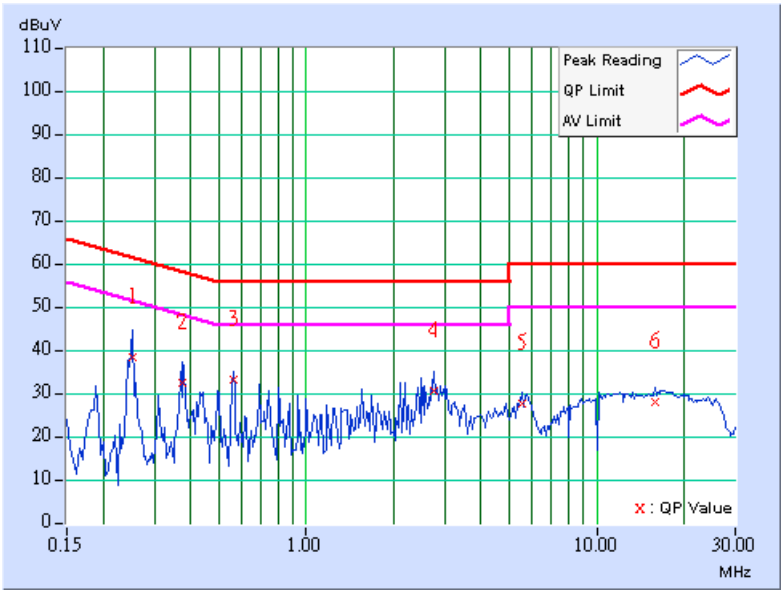


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	B
TESTED BY	Long Chen		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.252	0.10	37.89	-	37.99	-	61.71	51.71	-23.72	-
2	0.373	0.10	31.94	-	32.04	-	58.44	48.44	-26.40	-
3	0.560	0.10	32.56	-	32.66	-	56.00	46.00	-23.34	-
4	2.738	0.26	30.22	-	30.48	-	56.00	46.00	-25.52	-
5	5.543	0.37	27.20	-	27.57	-	60.00	50.00	-32.43	-
6	15.820	0.62	27.51	-	28.13	-	60.00	50.00	-31.87	-

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.

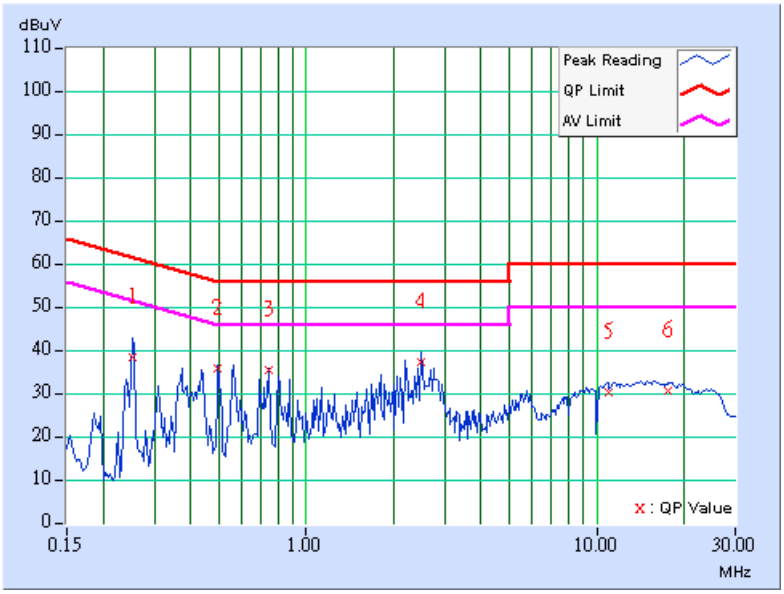


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	B
TESTED BY	Long Chen		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.252	0.10	37.91	-	38.01	-	61.71	51.71	-23.70	-
2	0.498	0.12	35.18	-	35.30	-	56.04	46.04	-20.74	-
3	0.748	0.16	34.89	-	35.05	-	56.00	46.00	-20.95	-
4	2.492	0.24	36.76	-	37.00	-	56.00	46.00	-19.00	-
5	10.957	0.49	29.87	-	30.36	-	60.00	50.00	-29.64	-
6	17.684	0.59	30.16	-	30.75	-	60.00	50.00	-29.25	-

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.



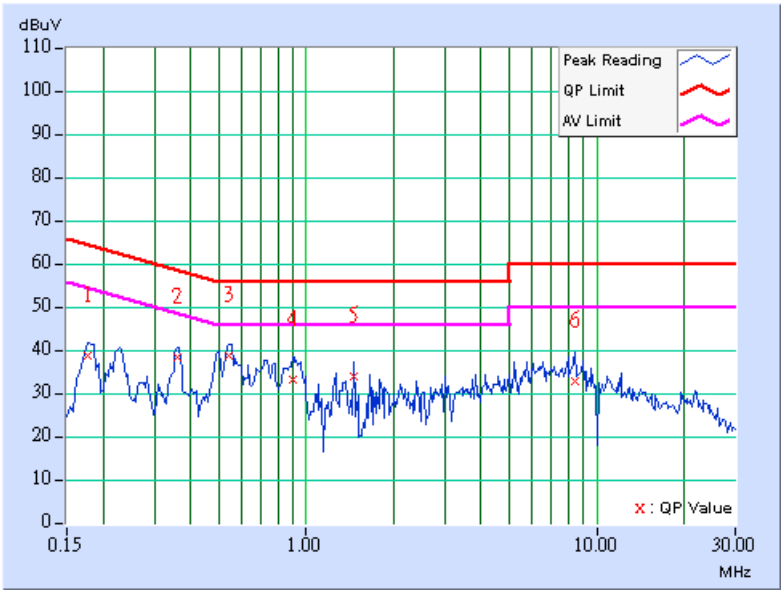
Conducted Worst Case Data (For adapter: PSAA05A-050):

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	C
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.176	0.10	38.29	-	38.39	-	64.67	54.67	-26.28	-
2	0.361	0.10	37.82	-	37.92	-	58.71	48.71	-20.79	-
3	0.541	0.12	38.32	-	38.44	-	56.00	46.00	-17.56	-
4	0.896	0.18	32.82	-	33.00	-	56.00	46.00	-23.00	-
5	1.449	0.20	33.64	-	33.84	-	56.00	46.00	-22.16	-
6	8.434	0.54	32.61	-	33.15	-	60.00	50.00	-26.85	-

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.

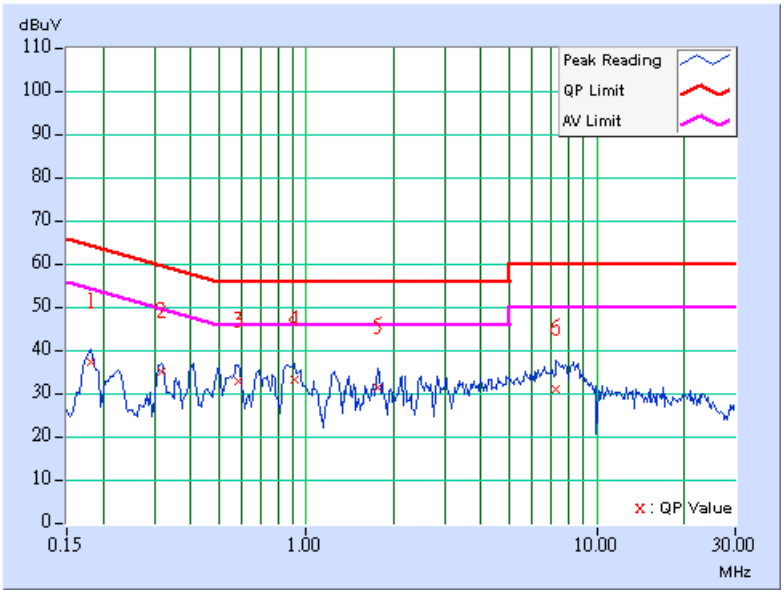


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	C
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.10	37.09	-	37.19	-	64.43	54.43	-27.24	-
2	0.318	0.10	34.55	-	34.65	-	59.76	49.76	-25.11	-
3	0.584	0.13	32.50	-	32.63	-	56.00	46.00	-23.37	-
4	0.912	0.19	32.78	-	32.97	-	56.00	46.00	-23.03	-
5	1.754	0.20	31.05	-	31.25	-	56.00	46.00	-24.75	-
6	7.273	0.46	30.60	-	31.06	-	60.00	50.00	-28.94	-

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.

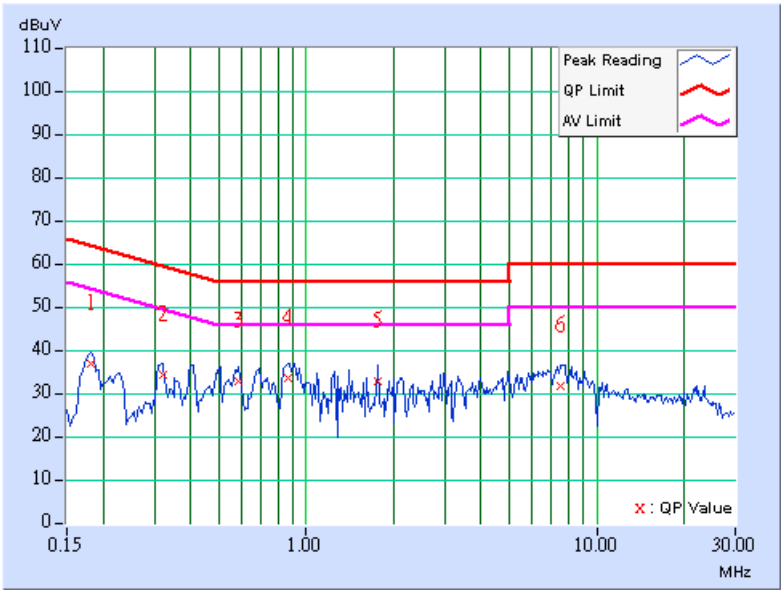


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	C
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.10	36.53	-	36.63	-	64.43	54.43	-27.80	-
2	0.322	0.10	34.02	-	34.12	-	59.66	49.66	-25.54	-
3	0.584	0.13	32.32	-	32.45	-	56.00	46.00	-23.55	-
4	0.861	0.18	33.09	-	33.27	-	56.00	46.00	-22.73	-
5	1.773	0.20	32.33	-	32.53	-	56.00	46.00	-23.47	-
6	7.492	0.52	31.20	-	31.72	-	60.00	50.00	-28.28	-

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.

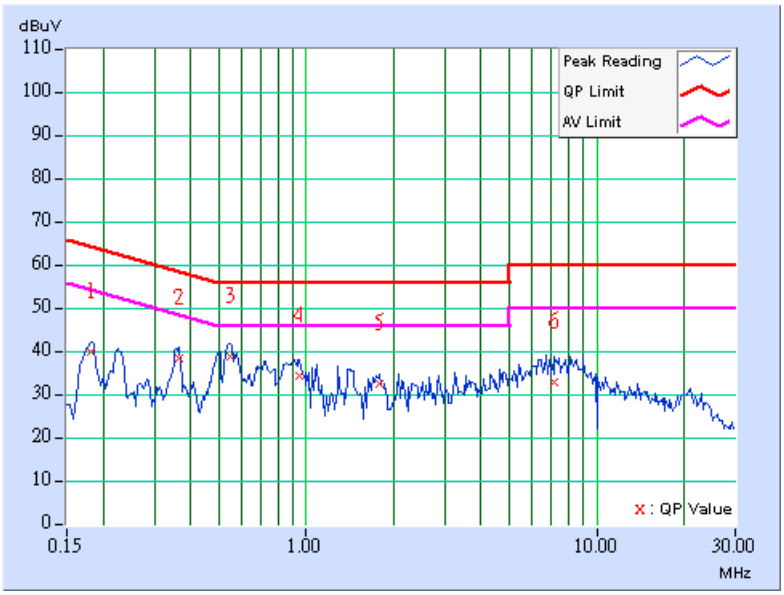


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	C
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.10	39.42	-	39.52	-	64.43	54.43	-24.91	-
2	0.365	0.10	38.22	-	38.32	-	58.62	48.62	-20.30	-
3	0.548	0.12	38.56	-	38.68	-	56.00	46.00	-17.32	-
4	0.951	0.19	33.81	-	34.00	-	56.00	46.00	-22.00	-
5	1.793	0.20	32.21	-	32.41	-	56.00	46.00	-23.59	-
6	7.176	0.46	32.60	-	33.06	-	60.00	50.00	-26.94	-

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.

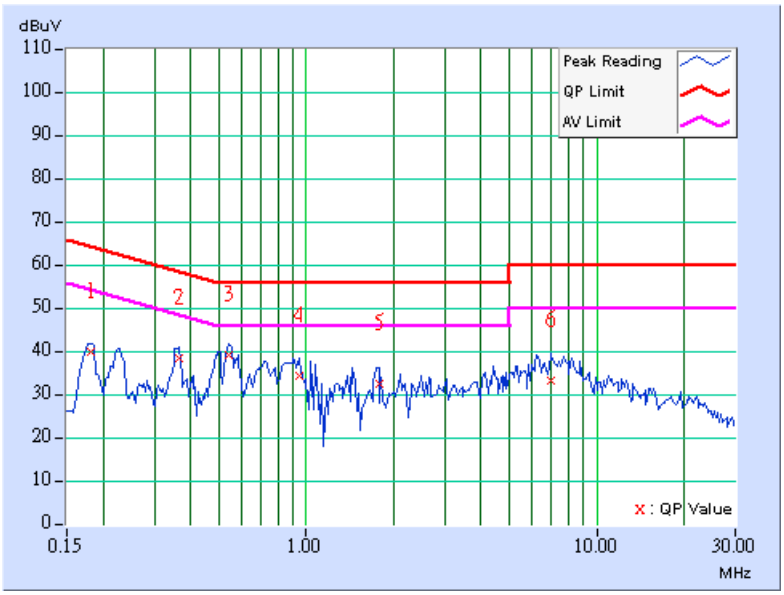


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	C
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.10	39.40	-	39.50	-	64.43	54.43	-24.93	-
2	0.365	0.10	38.16	-	38.26	-	58.62	48.62	-20.36	-
3	0.545	0.12	38.66	-	38.78	-	56.00	46.00	-17.22	-
4	0.943	0.19	33.79	-	33.98	-	56.00	46.00	-22.02	-
5	1.785	0.20	32.23	-	32.43	-	56.00	46.00	-23.57	-
6	6.918	0.51	32.77	-	33.28	-	60.00	50.00	-26.72	-

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.

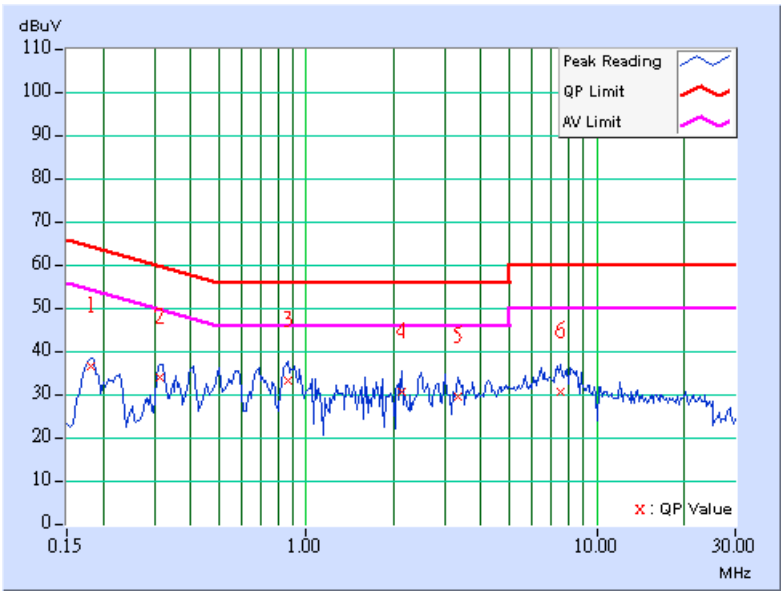


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	C
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	0.10	36.07	-	36.17	-	64.43	54.43	-28.26	-
2	0.314	0.10	33.77	-	33.87	-	59.86	49.86	-25.99	-
3	0.869	0.18	33.05	-	33.23	-	56.00	46.00	-22.77	-
4	2.125	0.22	30.23	-	30.45	-	56.00	46.00	-25.55	-
5	3.332	0.38	29.21	-	29.59	-	56.00	46.00	-26.41	-
6	7.527	0.46	30.36	-	30.82	-	60.00	50.00	-29.18	-

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.



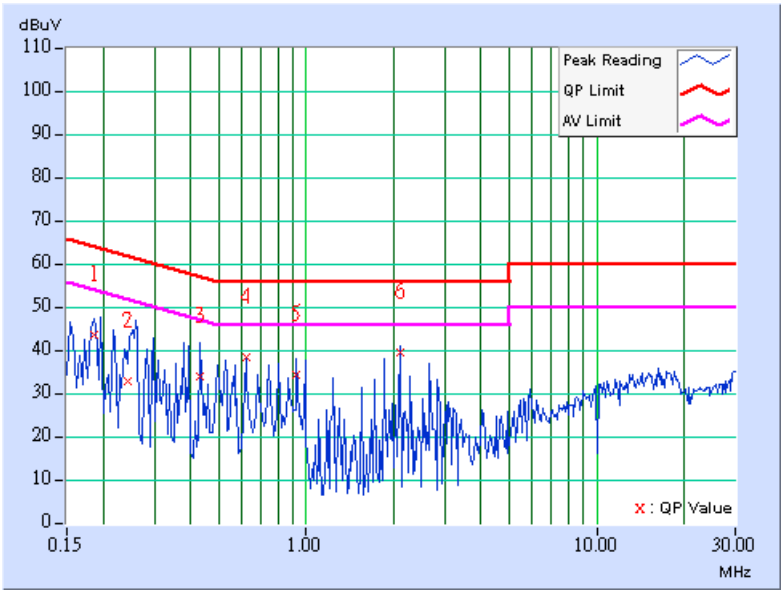
Conducted Worst Case Data (For adapter: ADP-5FH B):

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	D
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.10	43.42	-	43.52	-	64.24	54.24	-20.72	-
2	0.244	0.10	32.76	-	32.86	-	61.95	51.95	-29.09	-
3	0.431	0.11	33.87	-	33.98	-	57.23	47.23	-23.25	-
4	0.619	0.14	38.22	-	38.36	-	56.00	46.00	-17.64	-
5	0.927	0.19	34.20	-	34.39	-	56.00	46.00	-21.61	-
6	2.102	0.21	39.56	-	39.77	-	56.00	46.00	-16.23	-

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.

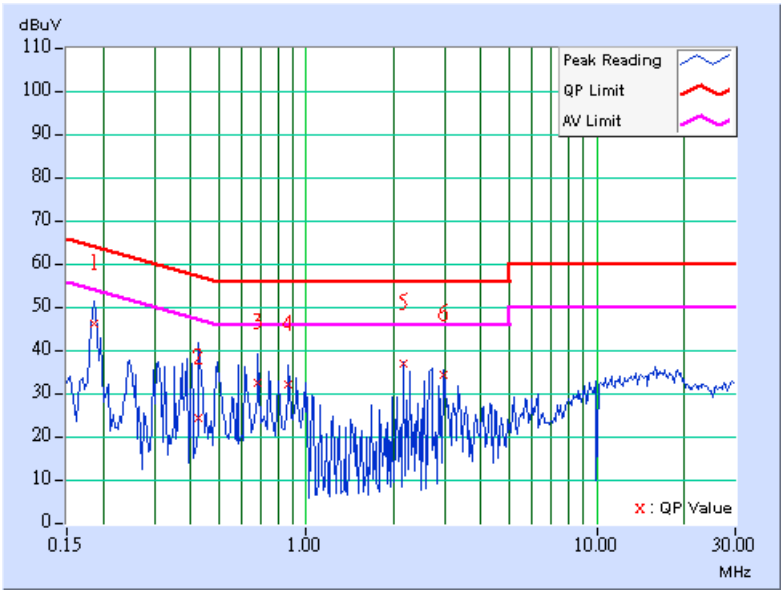


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	D
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.10	46.10	-	46.20	-	64.25	54.25	-18.05	-
2	0.427	0.10	24.03	-	24.13	-	57.30	47.30	-33.17	-
3	0.681	0.15	32.18	-	32.33	-	56.00	46.00	-23.67	-
4	0.865	0.18	31.98	-	32.16	-	56.00	46.00	-23.84	-
5	2.164	0.22	36.72	-	36.94	-	56.00	46.00	-19.06	-
6	2.973	0.33	34.09	-	34.42	-	56.00	46.00	-21.58	-

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.

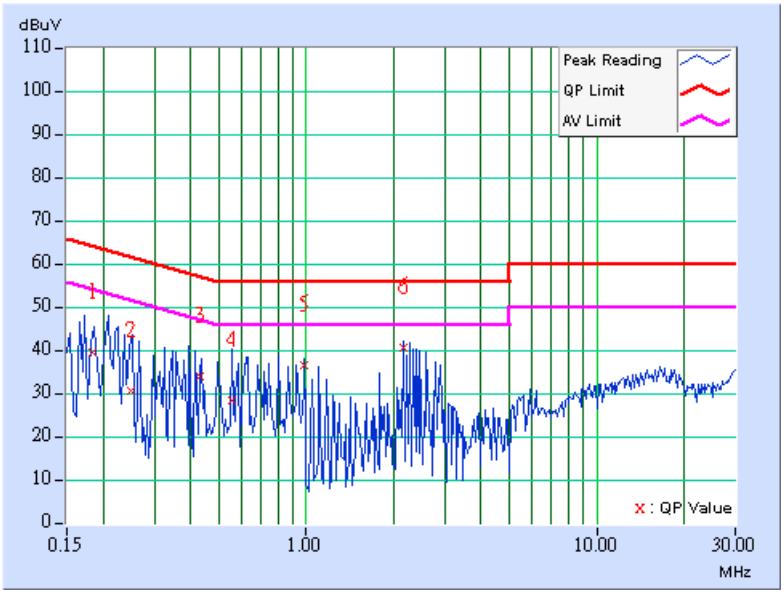


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	D
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.184	0.10	39.52	-	39.62	-	64.32	54.32	-24.70	-
2	0.250	0.10	30.42	-	30.52	-	61.76	51.76	-31.24	-
3	0.431	0.11	33.95	-	34.06	-	57.23	47.23	-23.18	-
4	0.556	0.13	28.14	-	28.27	-	56.00	46.00	-27.73	-
5	0.986	0.20	36.52	-	36.72	-	56.00	46.00	-19.28	-
6	2.160	0.22	40.41	-	40.63	-	56.00	46.00	-15.37	-

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.

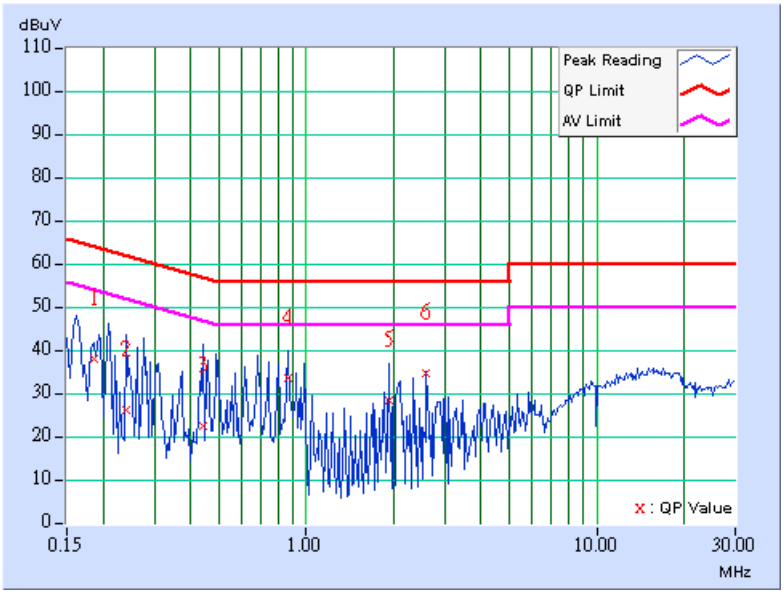


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	D
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.186	0.10	37.82	-	37.92	-	64.21	54.21	-26.29	-
2	0.240	0.10	26.05	-	26.15	-	62.10	52.10	-35.95	-
3	0.439	0.11	22.40	-	22.51	-	57.08	47.08	-34.57	-
4	0.861	0.18	33.57	-	33.75	-	56.00	46.00	-22.25	-
5	1.922	0.20	28.21	-	28.41	-	56.00	46.00	-27.59	-
6	2.590	0.28	34.47	-	34.75	-	56.00	46.00	-21.25	-

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.

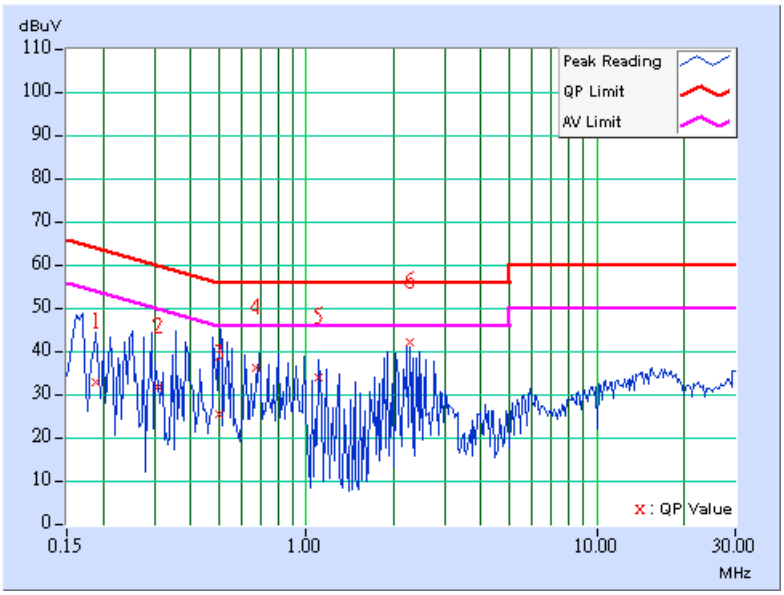


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	D
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	32.60	-	32.70	-	64.08	54.08	-31.38	-
2	0.308	0.10	31.53	-	31.63	-	60.04	50.04	-28.41	-
3	0.500	0.12	25.35	-	25.47	-	56.00	46.00	-30.53	-
4	0.676	0.15	35.89	-	36.04	-	56.00	46.00	-19.96	-
5	1.109	0.20	33.93	-	34.13	-	56.00	46.00	-21.87	-
6	2.273	0.24	42.17	-	42.41	-	56.00	46.00	-13.59	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

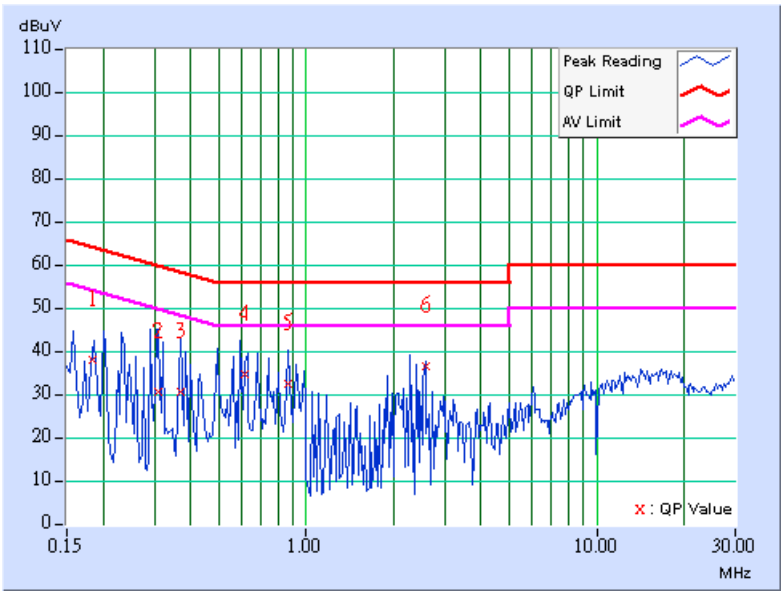
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value.
5. Correction factor = Insertion loss + Cable loss.
6. Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	D
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.184	0.10	37.94	-	38.04	-	64.30	54.30	-26.26	-
2	0.310	0.10	30.58	-	30.68	-	59.97	49.97	-29.29	-
3	0.369	0.10	30.47	-	30.57	-	58.53	48.53	-27.96	-
4	0.616	0.14	34.57	-	34.71	-	56.00	46.00	-21.29	-
5	0.865	0.18	32.42	-	32.60	-	56.00	46.00	-23.40	-
6	2.586	0.28	36.23	-	36.51	-	56.00	46.00	-19.49	-

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.

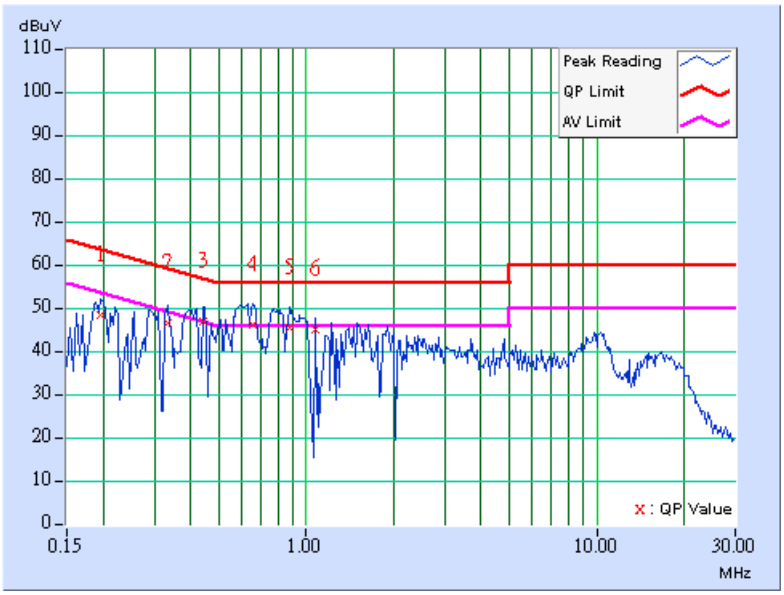


CONDUCTED WORST CASE DATA (FOR USB CABLE)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	F
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.10	48.26	-	48.36	-	63.74	53.74	-15.38	-
2	0.334	0.10	46.37	-	46.47	-	59.36	49.36	-12.89	-
3	0.443	0.11	46.84	-	46.95	-	57.01	47.01	-10.06	-
4	0.654	0.14	46.22	26.67	46.36	26.81	56.00	46.00	-9.64	-19.19
5	0.880	0.18	45.41	-	45.59	-	56.00	46.00	-10.41	-
6	1.074	0.20	44.86	-	45.06	-	56.00	46.00	-10.94	-

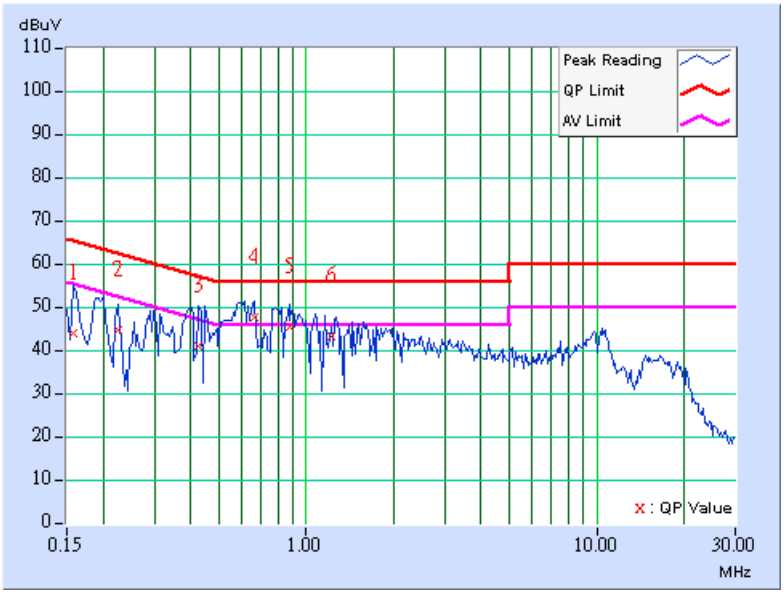
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	F
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	43.91	-	44.01	-	65.58	55.58	-21.57	-
2	0.224	0.10	44.55	-	44.65	-	62.66	52.66	-18.01	-
3	0.427	0.10	40.91	-	41.01	-	57.30	47.30	-16.29	-
4	0.662	0.14	47.48	30.76	47.62	30.90	56.00	46.00	-8.38	-15.10
5	0.873	0.18	45.47	-	45.65	-	56.00	46.00	-10.35	-
6	1.224	0.20	43.11	-	43.31	-	56.00	46.00	-12.69	-

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.

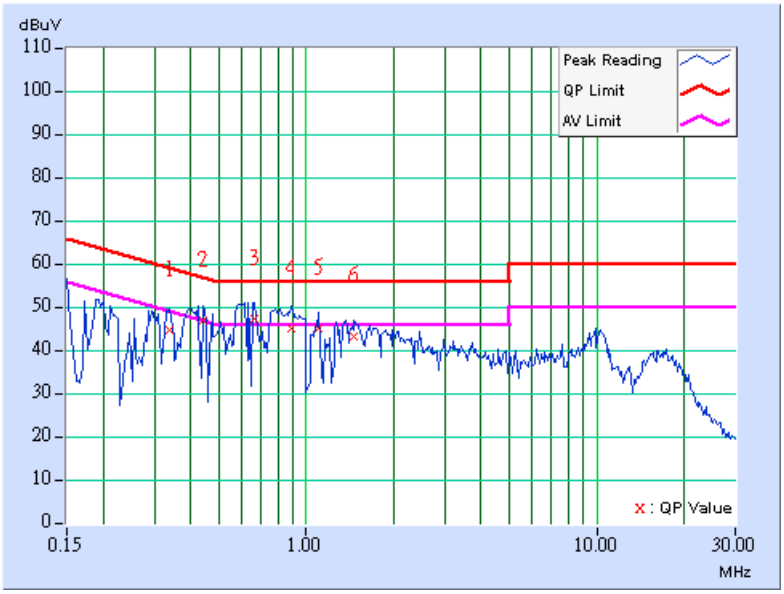


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	F
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.338	0.10	44.47	-	44.57	-	59.26	49.26	-14.69	-
2	0.443	0.11	46.74	-	46.85	-	57.01	47.01	-10.16	-
3	0.662	0.14	47.39	30.80	47.53	30.94	56.00	46.00	-8.47	-15.06
4	0.888	0.18	45.12	-	45.30	-	56.00	46.00	-10.70	-
5	1.102	0.20	44.90	-	45.10	-	56.00	46.00	-10.90	-
6	1.465	0.20	43.18	-	43.38	-	56.00	46.00	-12.62	-

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.

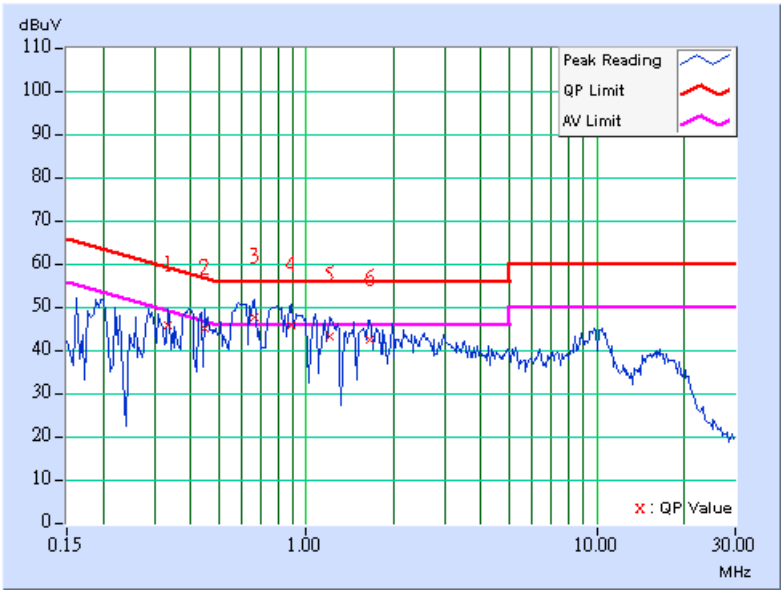


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	F
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.334	0.10	45.61	-	45.71	-	59.36	49.36	-13.65	-
2	0.447	0.11	44.94	-	45.05	-	56.93	46.93	-11.89	-
3	**0.666**	**0.14**	**47.64**	**31.48**	**47.78**	**31.62**	**56.00**	**46.00**	**-8.22**	**-14.38**
4	0.884	0.18	45.64	-	45.82	-	56.00	46.00	-10.18	-
5	1.203	0.20	43.00	-	43.20	-	56.00	46.00	-12.80	-
6	1.660	0.20	42.54	-	42.74	-	56.00	46.00	-13.26	-

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.

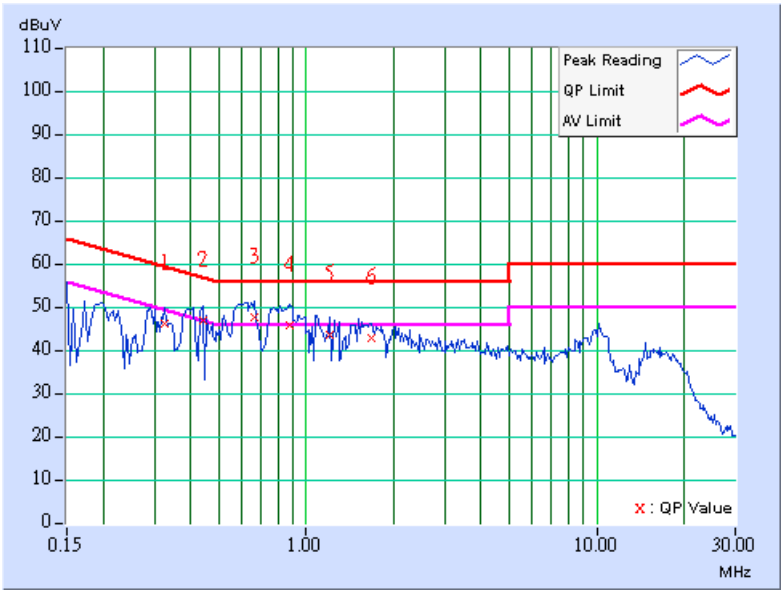


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	F
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.326	0.10	46.03	-	46.13	-	59.56	49.56	-13.43	-
2	0.439	0.11	46.67	-	46.78	-	57.08	47.08	-10.30	-
3	0.662	0.14	47.57	30.09	47.71	30.23	56.00	46.00	-8.29	-15.77
4	0.873	0.18	45.76	-	45.94	-	56.00	46.00	-10.06	-
5	1.207	0.20	43.60	-	43.80	-	56.00	46.00	-12.20	-
6	1.668	0.20	42.65	-	42.85	-	56.00	46.00	-13.15	-

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.

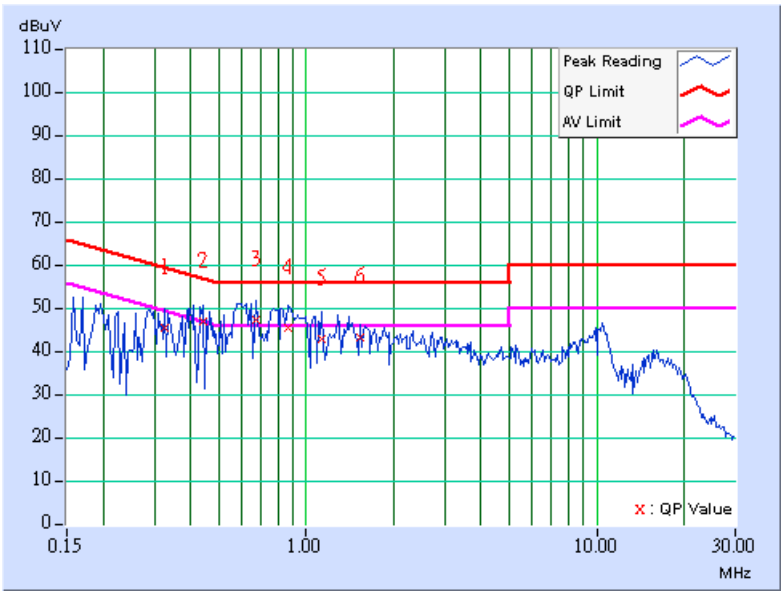


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	TEST MODE	F
TESTED BY	Jay Hsu		

NO	FREQ.	CORR. FACTOR	READING VALUE [dB (uV)]		EMISSION LEVEL [dB (uV)]		LIMIT [dB (uV)]		MARGIN (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.326	0.10	45.23	-	45.33	-	59.56	49.56	-14.23	-
2	0.439	0.11	46.79	-	46.90	-	57.08	47.08	-10.18	-
3	0.670	0.14	47.33	30.43	47.47	30.57	56.00	46.00	-8.53	-15.43
4	0.865	0.18	45.52	-	45.70	-	56.00	46.00	-10.30	-
5	1.125	0.20	42.80	-	43.00	-	56.00	46.00	-13.00	-
6	1.539	0.20	42.96	-	43.16	-	56.00	46.00	-12.84	-

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.



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	100033	May. 19, 2006
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100025	Dec. 05, 2006
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Jun. 01, 2006
HORN Antenna SCHWARZBECK	9120D	9120D-408	Jan. 08, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Jan. 19, 2007
Preamplifier Agilent	8447D	2944A10633	Nov. 04, 2006
Preamplifier Agilent	8449B	3008A01964	Oct. 30, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	214377/4	Dec. 13, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219272/4	Dec. 13, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	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 2.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The VCCI Site Registration No. is R-237.
5. The IC Site Registration No. is IC4924-3.

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 the peak, quasi-peak or average method as specified and then reported in a data sheet.

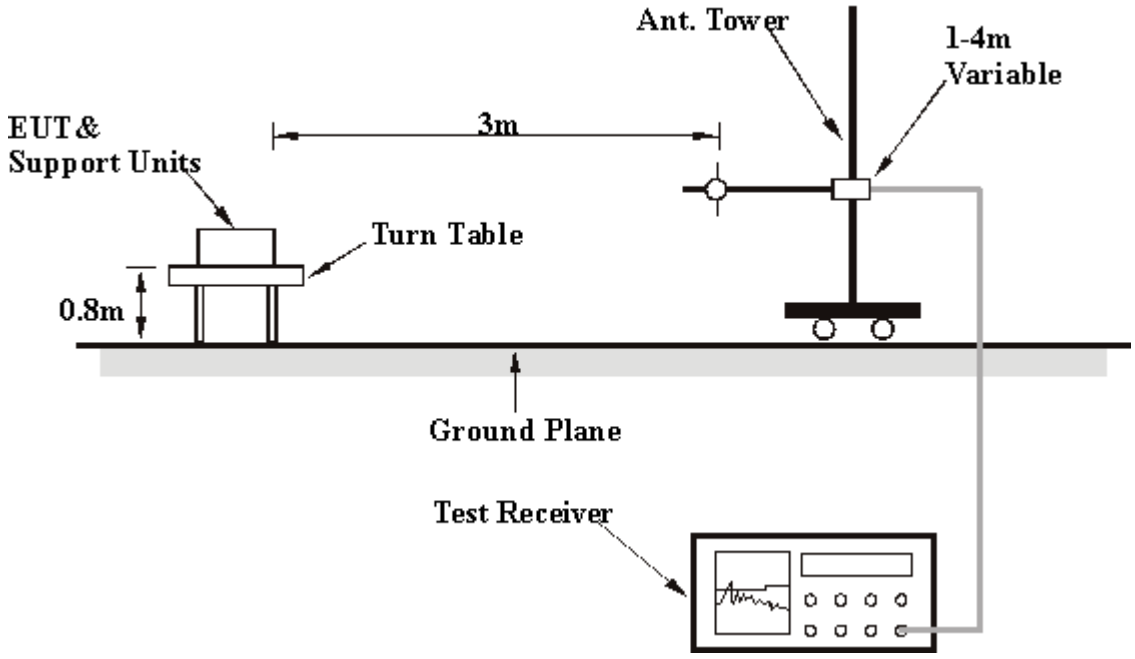
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for 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

RADIATED WORST CASE DATA (FOR ADAPTER: JHA050100UU05 WITH CCD):

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	22deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Long Chen		

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	39.72	15.73 QP	40.00	-24.27	1.50 H	271	1.31	14.42
2	51.38	15.43 QP	40.00	-24.57	1.50 H	241	1.12	14.31
3	173.85	18.71 QP	43.50	-24.79	1.25 H	73	6.05	12.66
4	228.28	16.66 QP	46.00	-29.34	1.50 H	37	4.65	12.02
5	834.77	26.73 QP	46.00	-19.27	1.50 H	70	-0.26	26.99
6	865.87	26.78 QP	46.00	-19.22	1.50 H	70	-0.50	27.27

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	31.94	29.60 QP	40.00	-10.40	1.00 V	328	16.79	12.81
2	47.49	33.23 QP	40.00	-6.77	1.00 V	157	18.67	14.56
3	142.75	17.53 QP	43.50	-25.97	1.00 V	94	4.18	13.35
4	228.28	16.88 QP	46.00	-29.12	1.00 V	76	4.86	12.02
5	823.11	26.16 QP	46.00	-19.84	1.00 V	202	-0.73	26.88
6	930.02	27.71 QP	46.00	-18.29	1.00 V	43	-0.33	28.04

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.

RADIATED WORST CASE DATA (FOR ADAPTER: JHA050100UU05 WITHOUT CCD):

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TEST MODE	B
TESTED BY	Long Chen		

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	59.16	15.48 QP	40.00	-24.52	1.25 H	82	1.92	13.56
2	136.91	16.38 QP	43.50	-27.12	1.25 H	97	3.44	12.95
3	185.51	16.39 QP	43.50	-27.11	1.00 H	277	4.51	11.88
4	239.94	22.60 QP	46.00	-23.40	1.25 H	79	10.23	12.37
5	409.06	21.76 QP	46.00	-24.24	1.00 H	226	3.31	18.46
6	753.13	25.00 QP	46.00	-21.00	1.00 H	31	-1.31	26.31

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	57.21	30.06 QP	40.00	-9.94	1.00 V	1	16.31	13.75
2	216.61	20.96 QP	46.00	-25.04	1.00 V	157	9.29	11.67
3	286.59	21.04 QP	46.00	-24.96	1.25 V	145	5.84	15.20
4	407.11	22.27 QP	46.00	-23.73	1.00 V	163	3.84	18.43
5	739.52	25.74 QP	46.00	-20.26	1.25 V	169	-0.14	25.87
6	902.81	26.94 QP	46.00	-19.06	1.00 V	64	-0.69	27.62

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.

RADIATED WORST CASE DATA (FOR ADAPTER: PSAA05A-050):

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 68%RH, 991hPa	TEST MODE	C
TESTED BY	Long Chen		

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	39.72	16.55 QP	40.00	-23.45	1.50 H	145	2.13	14.42
2	113.59	19.90 QP	43.50	-23.60	1.25 H	286	9.34	10.56
3	185.51	20.91 QP	43.50	-22.59	1.25 H	100	9.03	11.88
4	206.89	16.52 QP	43.50	-26.98	1.00 H	82	5.14	11.38
5	593.73	22.42 QP	46.00	-23.58	1.25 H	94	-0.51	22.93
6	891.14	26.83 QP	46.00	-19.17	1.25 H	145	-0.67	27.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	55.27	23.68 QP	40.00	-16.32	1.00 V	217	9.75	13.93
2	109.70	21.51 QP	43.50	-21.99	1.25 V	19	11.30	10.21
3	164.13	20.03 QP	43.50	-23.47	1.00 V	130	6.56	13.47
4	185.51	20.77 QP	43.50	-22.73	1.00 V	73	8.89	11.88
5	206.89	19.82 QP	43.50	-23.68	1.00 V	79	8.45	11.38
6	216.61	18.25 QP	46.00	-27.75	1.00 V	94	6.58	11.67

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.

RADIATED WORST CASE DATA (FOR ADAPTER: ADP-5FH B):

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 68%RH, 991hPa	TEST MODE	D
TESTED BY	Long Chen		

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	39.72	19.51 QP	40.00	-20.49	3.00 H	79	5.09	14.42
2	142.75	20.57 QP	43.50	-22.93	1.25 H	322	7.22	13.35
3	195.23	21.53 QP	43.50	-21.97	1.75 H	133	10.13	11.40
4	354.63	19.14 QP	46.00	-26.86	1.75 H	250	2.31	16.83
5	799.78	26.43 QP	46.00	-19.57	2.00 H	139	-0.24	26.67
6	875.59	26.70 QP	46.00	-19.30	1.50 H	154	-0.66	27.36

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	63.05	23.41 QP	40.00	-16.59	1.00 V	130	10.28	13.13
2	127.19	24.70 QP	43.50	-18.80	1.00 V	31	12.80	11.90
3	142.75	25.46 QP	43.50	-18.04	1.25 V	100	12.10	13.35
4	226.33	23.92 QP	46.00	-22.08	1.00 V	142	11.96	11.96
5	755.07	26.10 QP	46.00	-19.90	1.50 V	13	-0.22	26.33
6	826.99	26.53 QP	46.00	-19.47	1.00 V	13	-0.39	26.92

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.

RADIATED WORST CASE DATA (POWER FROM BATTERY):

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	3.7Vdc
ENVIRONMENTAL CONDITIONS	22deg. C, 68%RH, 991hPa	TEST MODE	E
TESTED BY	Long Chen		

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	16.98 QP	40.00	-23.02	1.00 H	319	3.08	13.91
2	68.88	19.28 QP	40.00	-20.72	1.25 H	238	6.81	12.47
3	142.75	21.38 QP	43.50	-22.12	1.00 H	22	8.02	13.35
4	164.13	22.42 QP	43.50	-21.08	1.25 H	40	8.96	13.47
5	195.23	30.18 QP	43.50	-13.32	1.25 H	10	18.77	11.40
6	206.89	30.20 QP	43.50	-13.30	1.00 H	145	18.82	11.38

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	66.93	21.48 QP	40.00	-18.52	1.00 V	172	8.79	12.69
2	173.85	17.81 QP	43.50	-25.69	1.25 V	97	5.15	12.66
3	195.23	23.29 QP	43.50	-20.21	1.25 V	91	11.89	11.40
4	206.89	21.69 QP	43.50	-21.81	1.25 V	94	10.31	11.38
5	762.85	25.76 QP	46.00	-20.24	1.00 V	76	-0.63	26.39
6	898.92	27.53 QP	46.00	-18.47	1.00 V	10	-0.04	27.57

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.

RADIATED WORST CASE DATA (USB CABLE):

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	22deg. C, 68%RH, 991hPa	TEST MODE	F
TESTED BY	Long Chen		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	113.59	28.88 QP	43.50	-14.62	3.00 H	250	18.32	10.56
2	166.07	25.46 QP	43.50	-18.04	2.00 H	238	12.16	13.31
3	199.12	25.83 QP	43.50	-17.67	1.50 H	10	14.62	11.21
4	257.43	27.50 QP	46.00	-18.50	1.75 H	334	14.88	12.62
5	399.34	31.80 QP	46.00	-14.20	1.75 H	325	13.52	18.28
6	702.59	31.24 QP	46.00	-14.76	3.00 H	25	6.83	24.40

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	57.21	28.02 QP	40.00	-11.98	1.00 V	115	14.27	13.75
2	133.03	26.99 QP	43.50	-16.51	1.50 V	223	14.46	12.53
3	166.07	27.10 QP	43.50	-16.40	1.50 V	352	13.80	13.31
4	300.20	27.72 QP	46.00	-18.28	1.50 V	220	11.82	15.89
5	399.34	26.52 QP	46.00	-19.48	1.00 V	250	8.24	18.28
6	702.59	34.86 QP	46.00	-11.14	1.00 V	10	10.46	24.40

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 TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Long Chen		

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	2390.00	57.09 PK	74.00	-16.91	1.03 H	332	25.18	31.91
1	2390.00	43.62 AV	54.00	-10.38	1.03 H	332	11.71	31.91
2	*2412.00	100.52 PK			1.03 H	332	68.48	32.04
2	*2412.00	97.12 AV			1.03 H	332	65.08	32.04
3	4824.00	52.07 PK	74.00	-21.93	1.02 H	258	14.56	37.51
3	4824.00	39.18 AV	54.00	-14.82	1.02 H	258	1.67	37.51

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	2390.00	59.20 PK	74.00	-14.80	1.20 V	165	27.29	31.91
1	2390.00	45.52 AV	54.00	-8.48	1.20 V	165	13.61	31.91
2	*2412.00	102.63 PK			1.20 V	165	70.59	32.04
2	*2412.00	99.02 AV			1.20 V	165	66.98	32.04
3	4824.00	53.62 PK	74.00	-20.38	1.06 V	248	16.11	37.51
3	4824.00	40.65 AV	54.00	-13.35	1.06 V	248	3.14	37.51

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 TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Long Chen		

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	*2437.00	100.64 PK			1.06 H	331	68.44	32.20
1	*2437.00	96.28 AV			1.06 H	331	64.08	32.20
2	4874.00	47.52 PK	74.00	-26.48	1.03 H	210	9.97	37.55
2	4874.00	35.20 AV	54.00	-18.80	1.03 H	210	-2.35	37.55

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	*2437.00	102.95 PK			1.17 V	140	70.75	32.20
1	*2437.00	99.17 AV			1.17 V	140	66.97	32.20
2	4874.00	50.23 PK	74.00	-23.77	1.00 V	256	12.68	37.55
2	4874.00	37.84 AV	54.00	-16.16	1.00 V	256	0.29	37.55

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 TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Long Chen		

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	*2462.00	99.33 PK			1.06 H	335	66.98	32.35
1	*2462.00	96.21 AV			1.06 H	335	63.86	32.35
2	2483.50	55.90 PK	74.00	-18.10	1.06 H	335	23.41	32.49
2	2483.50	42.61 AV	54.00	-11.39	1.06 H	335	10.12	32.49
3	4924.00	47.58 PK	74.00	-26.42	1.24 H	10	10.00	37.58
3	4924.00	34.26 AV	54.00	-19.74	1.24 H	10	-3.32	37.58

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	*2462.00	101.41 PK			1.15 V	141	69.06	32.35
1	*2462.00	98.41 AV			1.15 V	141	66.06	32.35
2	2483.50	57.56 PK	74.00	-16.44	1.15 V	141	25.07	32.49
2	2483.50	44.93 AV	54.00	-9.07	1.15 V	141	12.44	32.49
3	4924.00	49.96 PK	74.00	-24.04	1.00 V	254	12.38	37.58
3	4924.00	36.87 AV	54.00	-17.13	1.00 V	254	-0.71	37.58

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 TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Long Chen		

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	2390.00	67.96 PK	74.00	-6.04	1.52 H	136	36.05	31.91
1	2390.00	49.14 AV	54.00	-4.86	1.52 H	136	17.23	31.91
2	*2412.00	103.33 PK			1.52 H	136	71.29	32.04
2	*2412.00	93.50 AV			1.52 H	136	61.46	32.04
3	4824.00	46.63 PK	74.00	-27.37	1.10 H	2	9.12	37.51
3	4824.00	34.46 AV	54.00	-19.54	1.10 H	2	-3.05	37.51

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	2390.00	69.71 PK	74.00	-4.29	1.20 V	140	37.80	31.91
1	**2390.00**	**51.46 AV**	**54.00**	**-2.54**	**1.20 V**	**140**	**19.55**	**31.91**
2	*2412.00	105.08 PK			1.48 V	34	73.04	32.04
2	*2412.00	95.82 AV			1.48 V	34	63.78	32.04
3	4824.00	50.41 PK	74.00	-23.59	1.46 V	259	12.90	37.51
3	4824.00	37.12 AV	54.00	-16.88	1.46 V	259	-0.39	37.51

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 TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Long Chen		

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	*2437.00	103.87 PK			1.02 H	337	71.67	32.20
1	*2437.00	94.02 AV			1.02 H	337	61.82	32.20
2	4874.00	47.09 PK	74.00	-26.91	1.08 H	54	9.54	37.55
2	4874.00	35.12 AV	54.00	-18.88	1.08 H	54	-2.43	37.55

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	*2437.00	105.70 PK			1.17 V	141	73.50	32.20
1	*2437.00	95.25 AV			1.17 V	141	63.05	32.20
2	4874.00	49.46 PK	74.00	-24.54	1.28 V	274	11.91	37.55
2	4874.00	37.34 AV	54.00	-16.66	1.28 V	274	-0.21	37.55

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 TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Long Chen		

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	*2462.00	103.28 PK			1.01 H	334	70.93	32.35
1	*2462.00	93.47 AV			1.01 H	334	61.12	32.35
2	2483.50	66.55 PK	74.00	-7.45	1.01 H	334	34.06	32.49
2	2483.50	47.43 AV	54.00	-6.57	1.01 H	334	14.94	32.49
3	4924.00	46.44 PK	74.00	-27.56	1.00 H	256	8.86	37.58
3	4924.00	36.00 AV	54.00	-18.00	1.00 H	256	-1.58	37.58

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	*2462.00	104.75 PK			1.15 V	140	72.40	32.35
1	*2462.00	94.94 AV			1.15 V	140	62.59	32.35
2	2483.50	68.02 PK	74.00	-5.98	1.15 V	140	35.53	32.49
2	2483.50	48.90 AV	54.00	-5.10	1.15 V	140	16.41	32.49
3	4924.00	49.44 PK	74.00	-24.56	1.00 V	265	11.93	37.51
3	4924.00	36.44 AV	54.00	-17.56	1.00 V	265	-1.07	37.51

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. 14, 2006

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

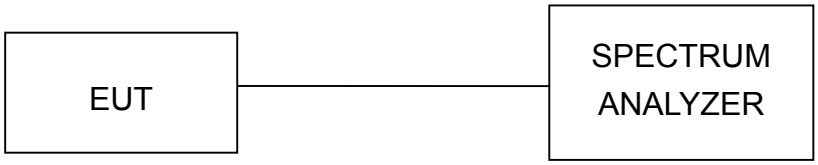
4.3.3 TEST PROCEDURE

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.

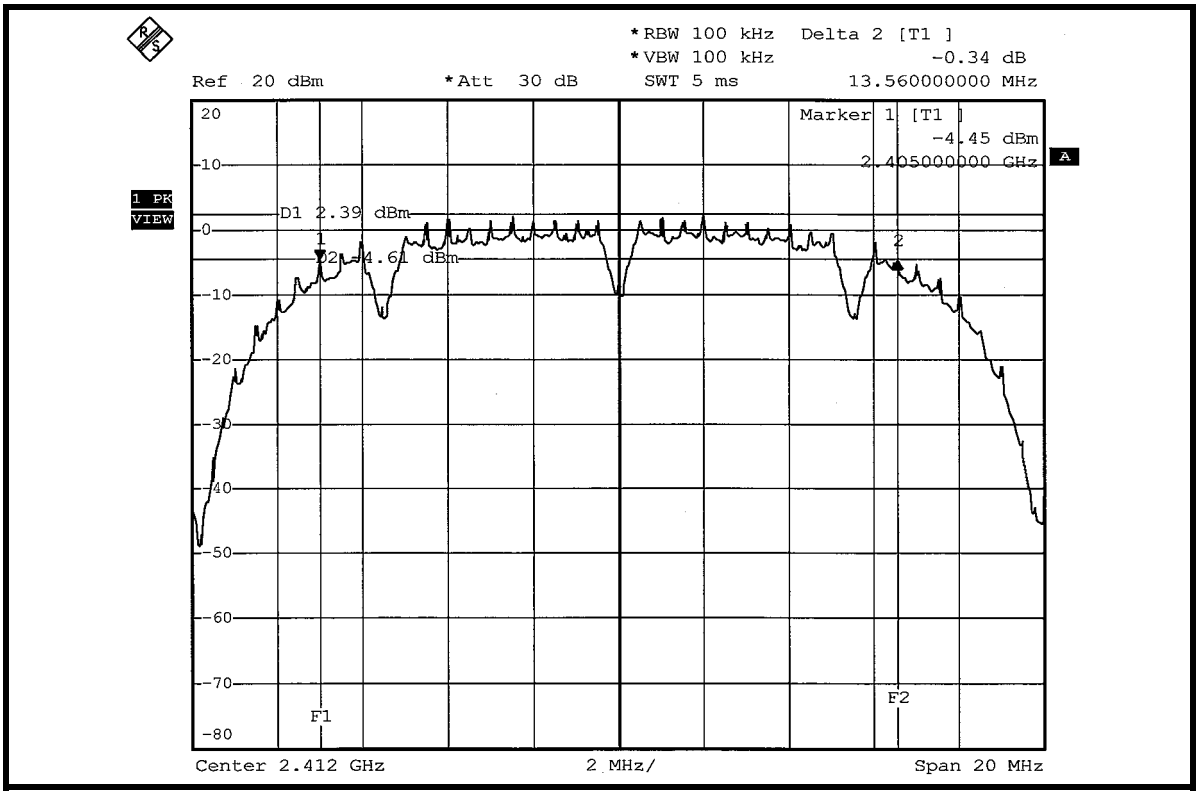
4.3.7 TEST RESULTS

802.11b DSSS MODULATION

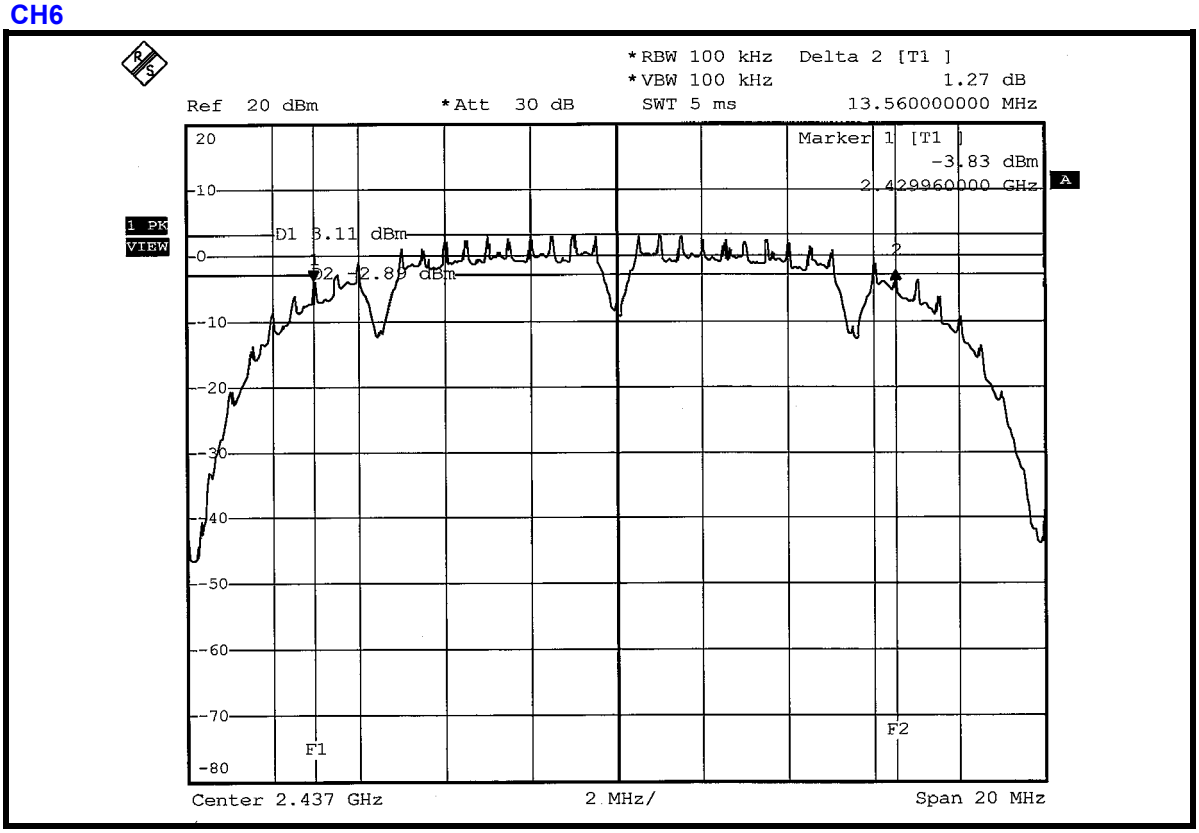
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TESTED BY	Jay Hsu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	13.56	0.5	PASS
6	2437	13.56	0.5	PASS
11	2462	13.56	0.5	PASS

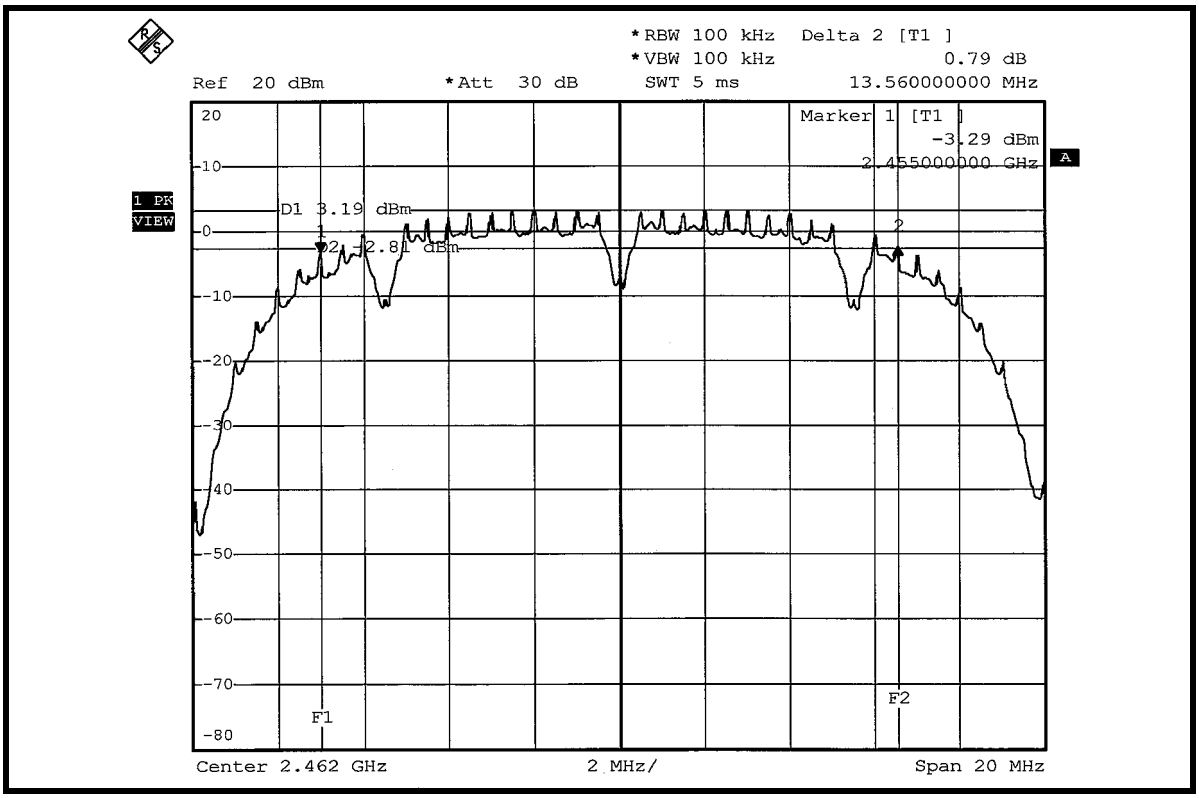
CH1


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 2 [T1]
-0.34 dB
13.560000000 MHz
Ref 20 dBm
*Att 30 dB
Marker 1 [T1]
-4.45 dBm
2.405000000 GHz
1 PK
VIEW
D1 2.39 dBm
D2 -4.61 dBm
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz

CH6


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 2 [T1]
1.27 dB
13.560000000 MHz
Ref 20 dBm
*Att 30 dB
Marker 1 [T1]
-3.83 dBm
2.429960000 GHz
1 PK
VIEW
D1 3.11 dBm
D2 -2.89 dBm
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

CH11

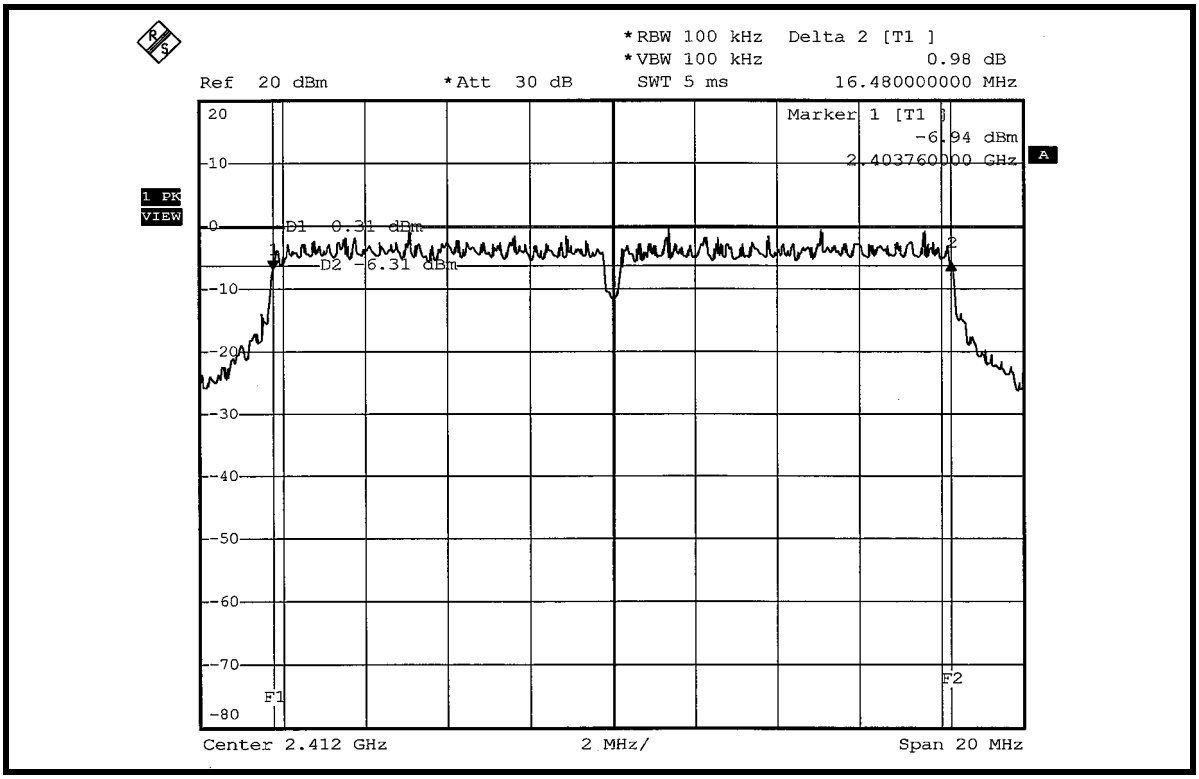

*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 2 [T1]
0.79 dB
13.560000000 MHz
Ref 20 dBm
*Att 30 dB
Marker 1 [T1]
-3.29 dBm
2.455000000 GHz
1 PK
VIEW
D1 3.19 dBm
D2 -2.81 dBm
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

802.11g OFDM MODULATION

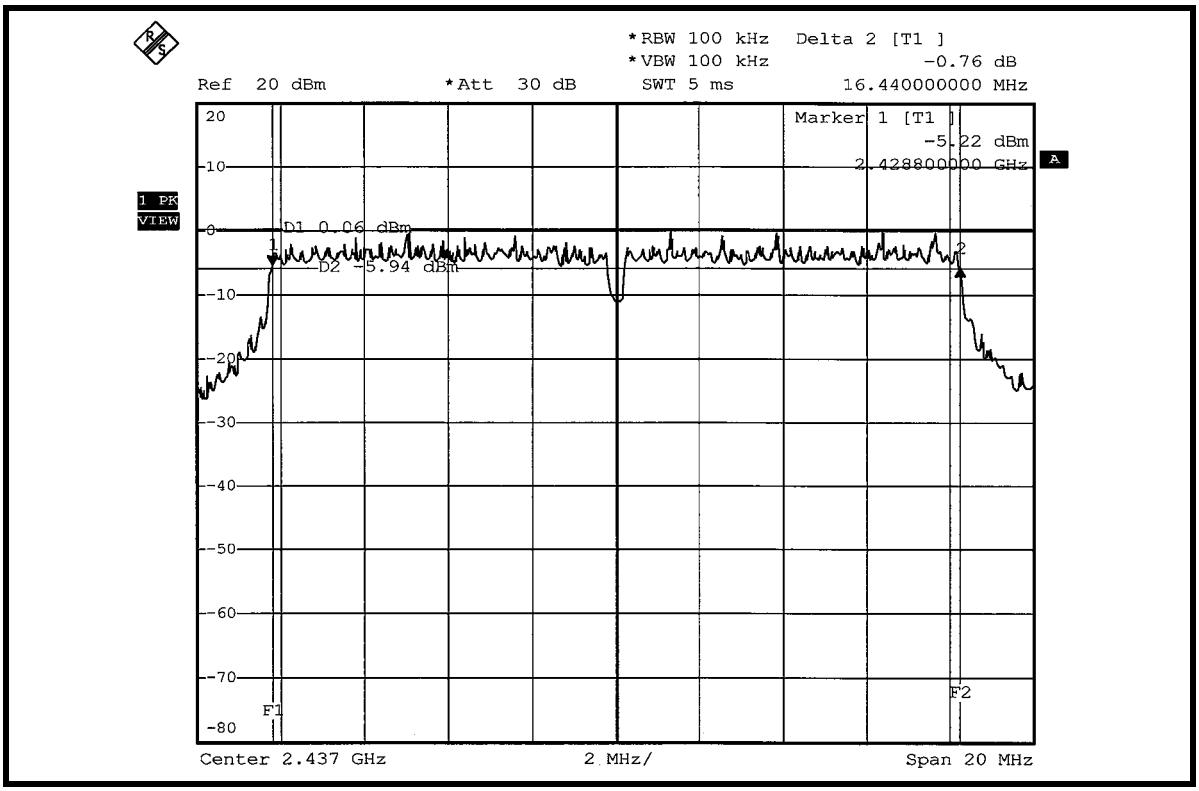
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TESTED BY	Jay Hsu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.48	0.5	PASS
6	2437	16.44	0.5	PASS
11	2462	16.48	0.5	PASS

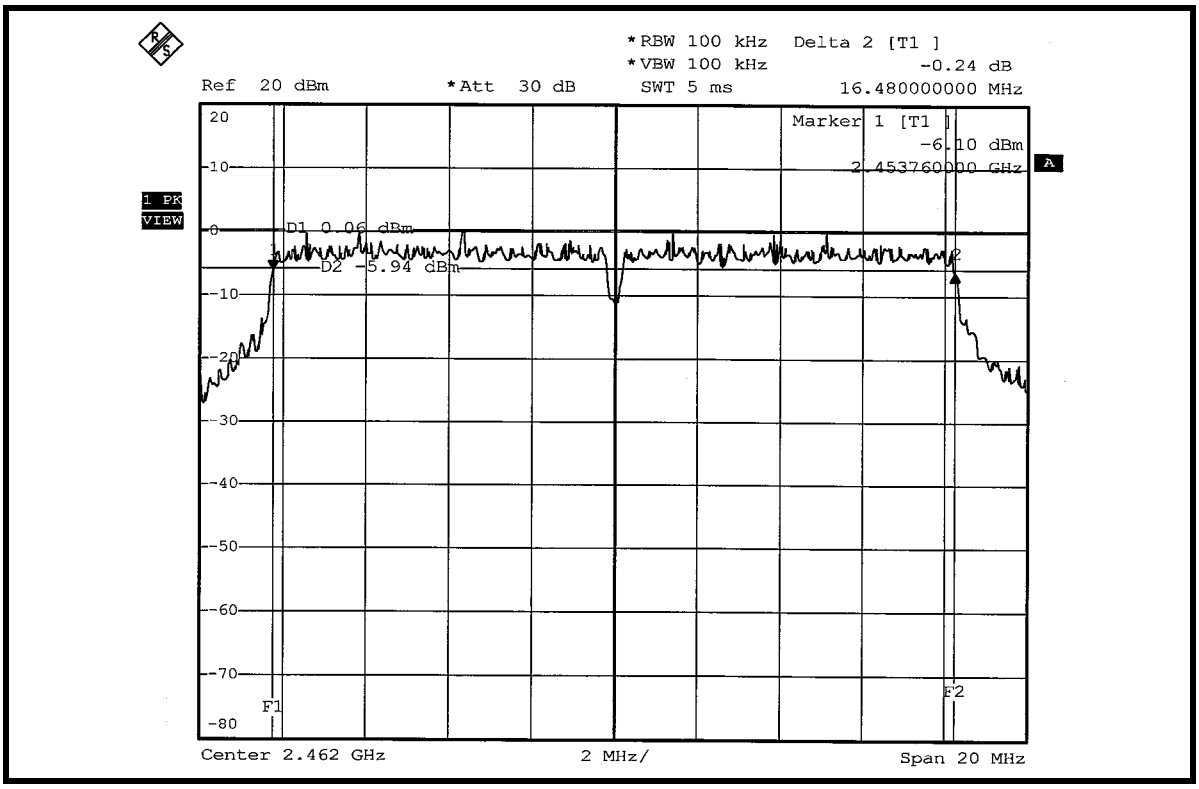
CH1


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 5 ms
Delta 2 [T1]
0.98 dB
16.480000000 MHz
Marker 1 [T1]
-6.94 dBm
2.403760000 GHz
1 PK
VIEW
D1 0.31 dBm
D2 -6.31 dBm
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz

CH6


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 5 ms
Delta 2 [T1]
-0.76 dB
16.440000000 MHz
Marker 1 [T1]
-5.22 dBm
2.428800000 GHz
1 PK
VIEW
D1 0.06 dBm
D2 -5.94 dBm
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

CH11


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 2 [T1]
-0.24 dB
16.480000000 MHz
Ref 20 dBm
*Att 30 dB
Marker 1 [T1]
-6.10 dBm
2.453760000 GHz
1 PK
VIEW
D1 0.06 dBm
D2 -5.94 dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 07, 2006
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Nov. 28, 2006
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

MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TESTED BY	Jay Hsu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	31.769	15.02	30	PASS
6	2437	35.645	15.52	30	PASS
11	2462	39.902	16.01	30	PASS

802.11g OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg. C, 63%RH, 991hPa
TESTED BY	Jay Hsu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	44.668	16.50	30	PASS
6	2437	50.466	17.03	30	PASS
11	2462	50.119	17.00	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

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

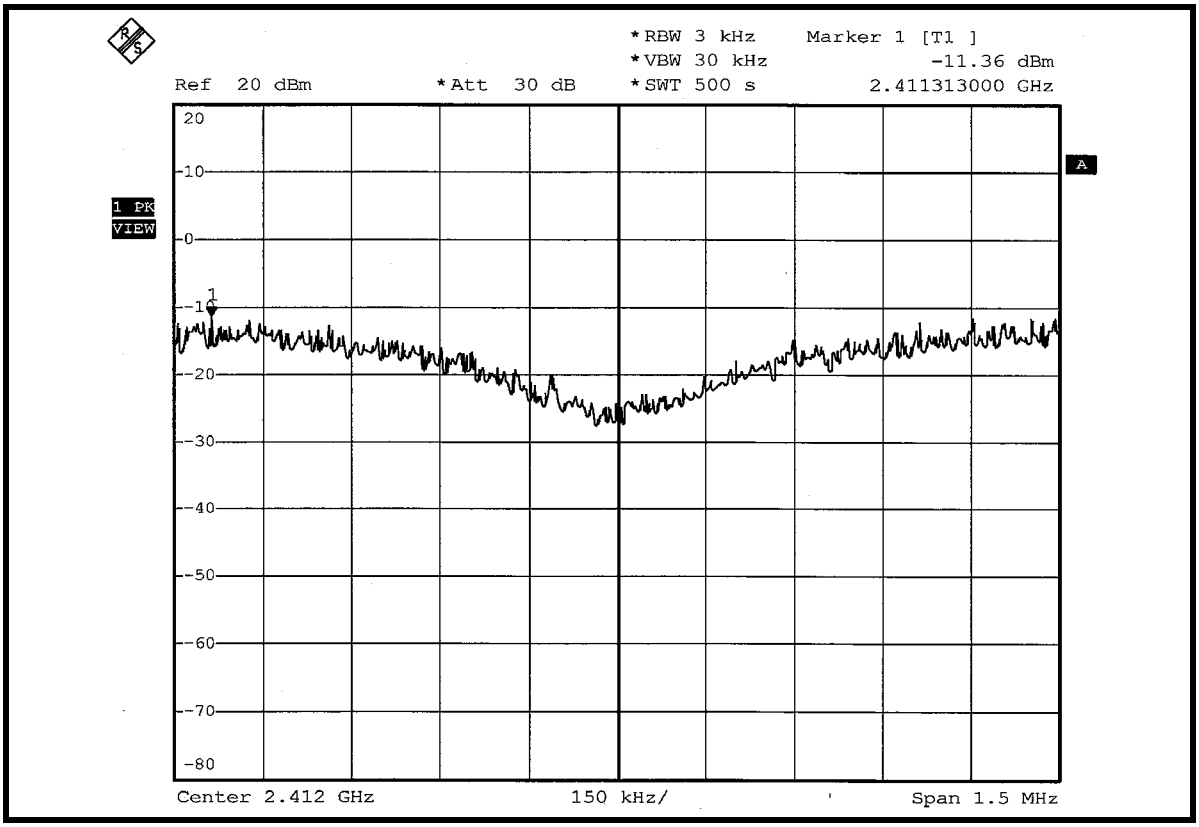
4.5.7 TEST RESULTS

802.11b DSSS MODULATION

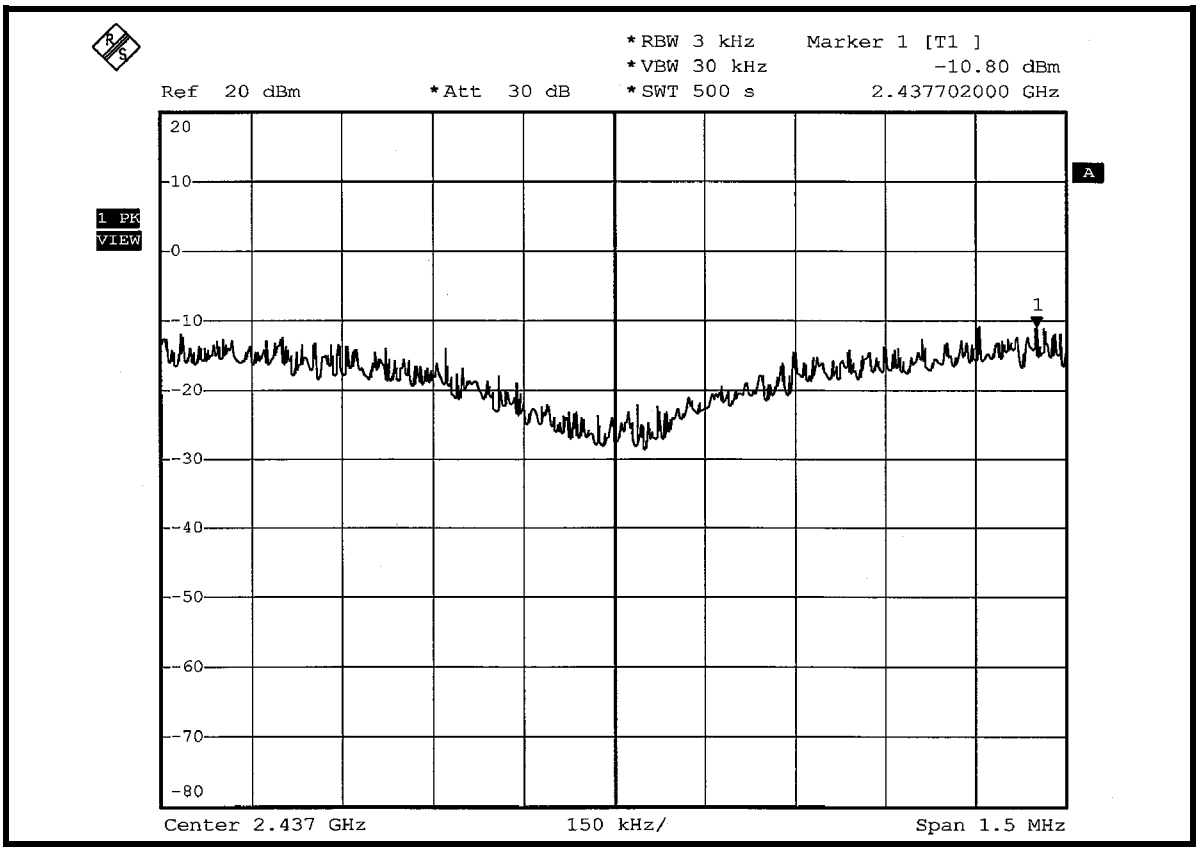
MODULATION TYPE	DBPSK	**TRANSFER RATE**	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	22deg. C, 63%RH, 991hPa
TESTED BY	Jay Hsu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.36	8	PASS
6	2437	-10.80	8	PASS
11	2462	-10.39	8	PASS

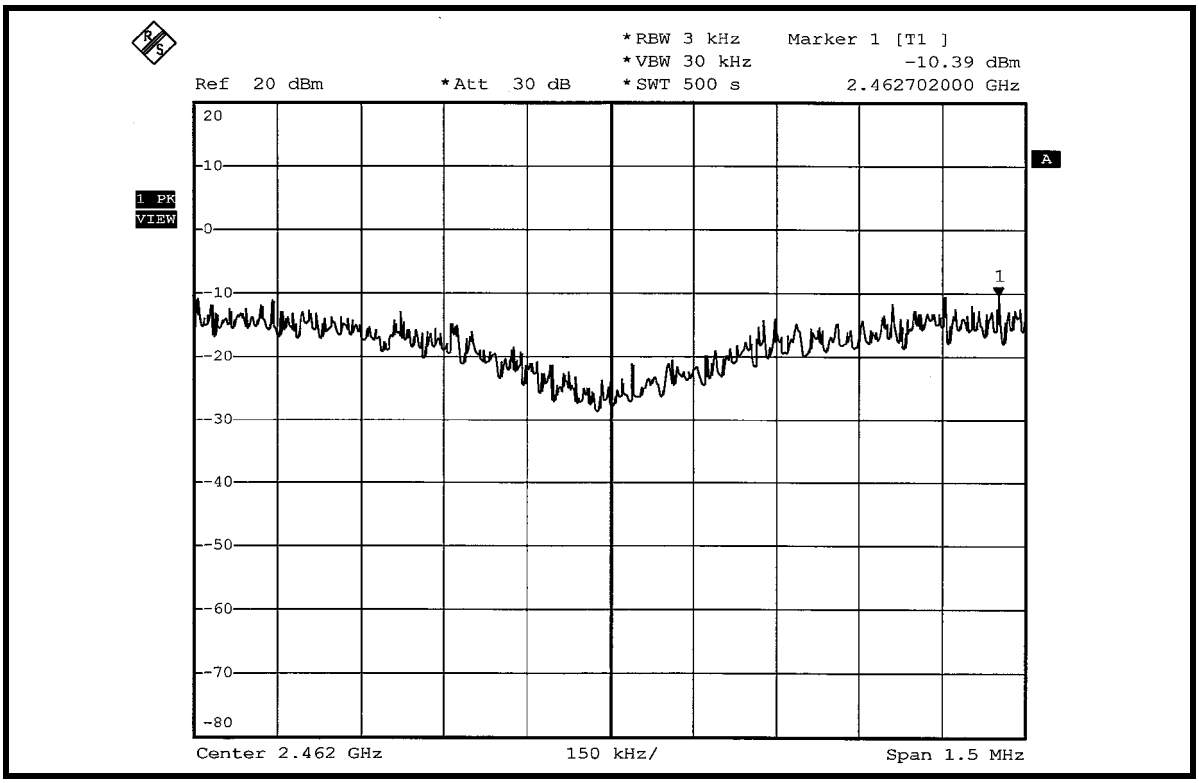
CH1


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-11.36 dBm
2.411313000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
20
-10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.412 GHz
150 kHz/
Span 1.5 MHz

CH6


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-10.80 dBm
2.437702000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
20
-10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437 GHz
150 kHz/
Span 1.5 MHz

CH11

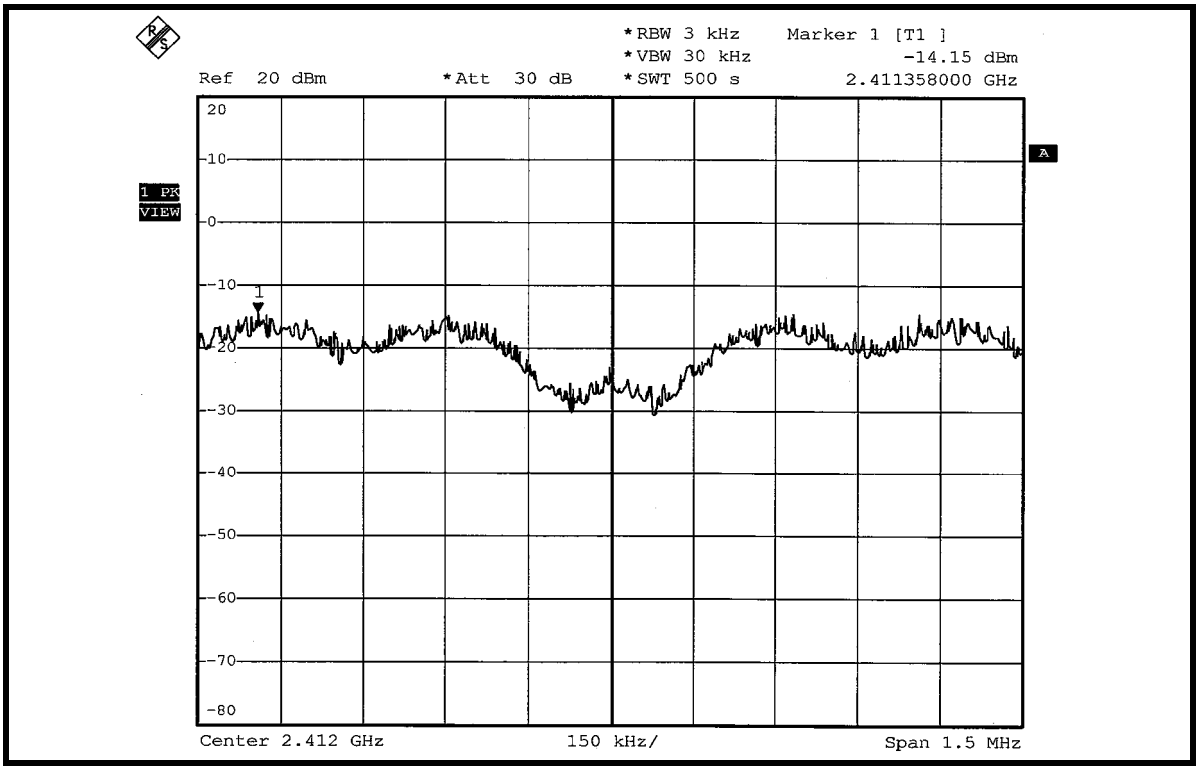

*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-10.39 dBm
2.462702000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
1
Center 2.462 GHz
150 kHz/
Span 1.5 MHz

802.11g OFDM MODULATION

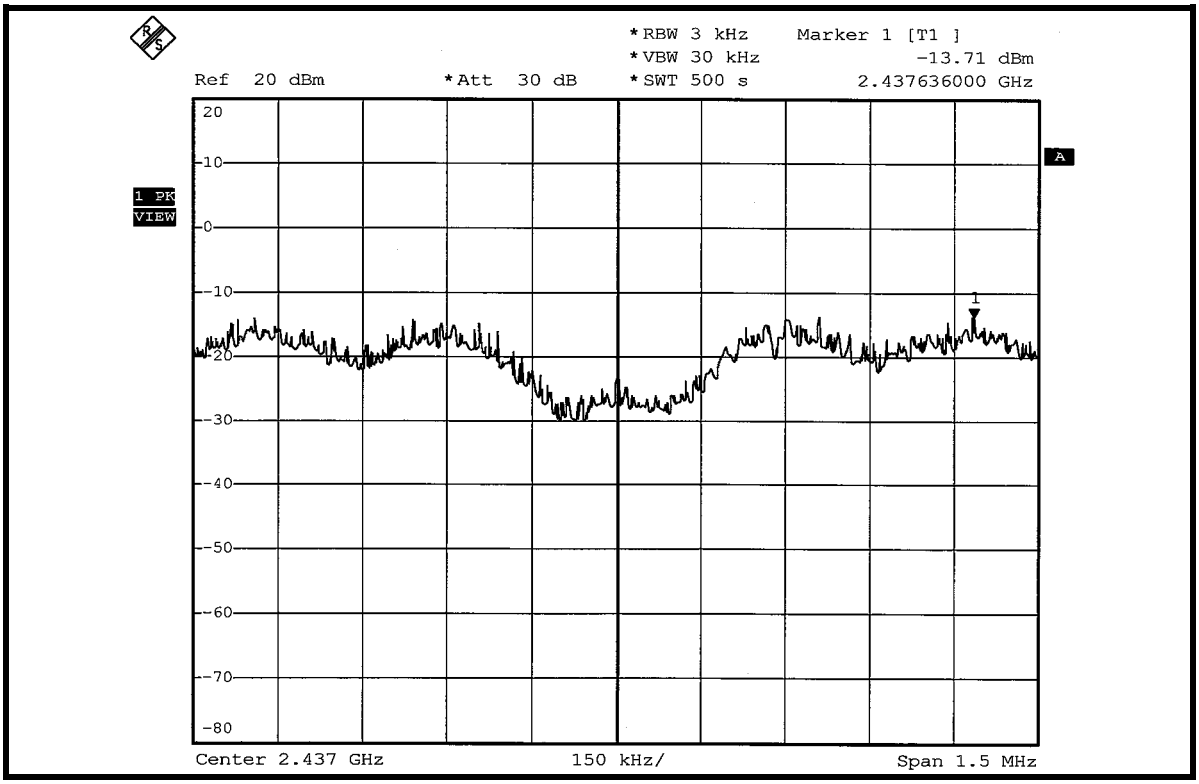
MODULATION TYPE	BPSK	**TRANSFER RATE**	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	22deg. C, 63%RH, 991hPa
TESTED BY	Jay Hsu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.15	8	PASS
6	2437	-13.71	8	PASS
11	2462	-13.61	8	PASS

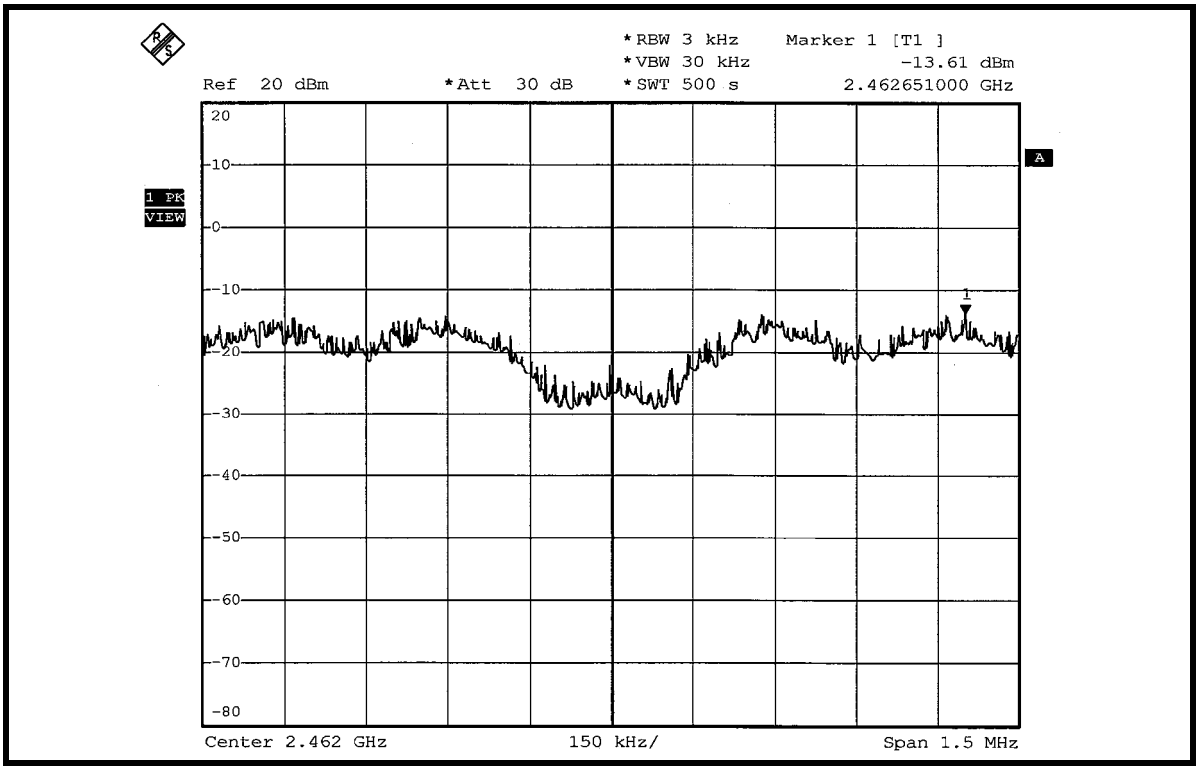
CH1


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-14.15 dBm
2.411358000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.412 GHz
150 kHz/
Span 1.5 MHz

CH6


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-13.71 dBm
2.437636000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437 GHz
150 kHz/
Span 1.5 MHz

CH11


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-13.61 dBm
2.462651000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462 GHz
150 kHz/
Span 1.5 MHz

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. 14, 2006

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

802.11b DSSS MODULATION

NOTE 1:

The band edge emission plot on page 83 show 49.35dBc delta between carrier maximum power and local maximum emission in restrict band (2.3884GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.63dBuV/m (Peak), so the maximum field strength in restrict band is 102.63 – 49.35 = 53.28dBuV/m, which is under 74dBuV/m limit.

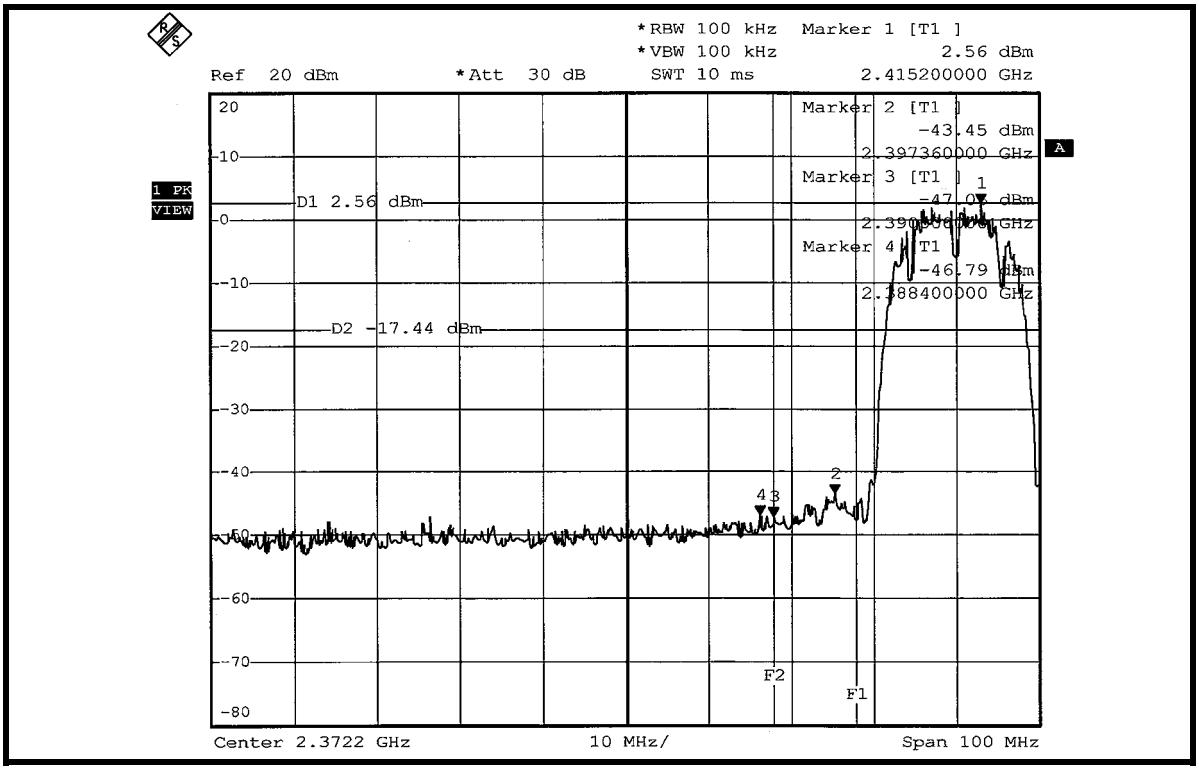
The band edge emission plot on page 83 show 52.79dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.02dBuV/m (Average), so the maximum field strength in restrict band is 99.02 –52.79 = 46.23dBuV/m, which is under 54dBuV/m limit.

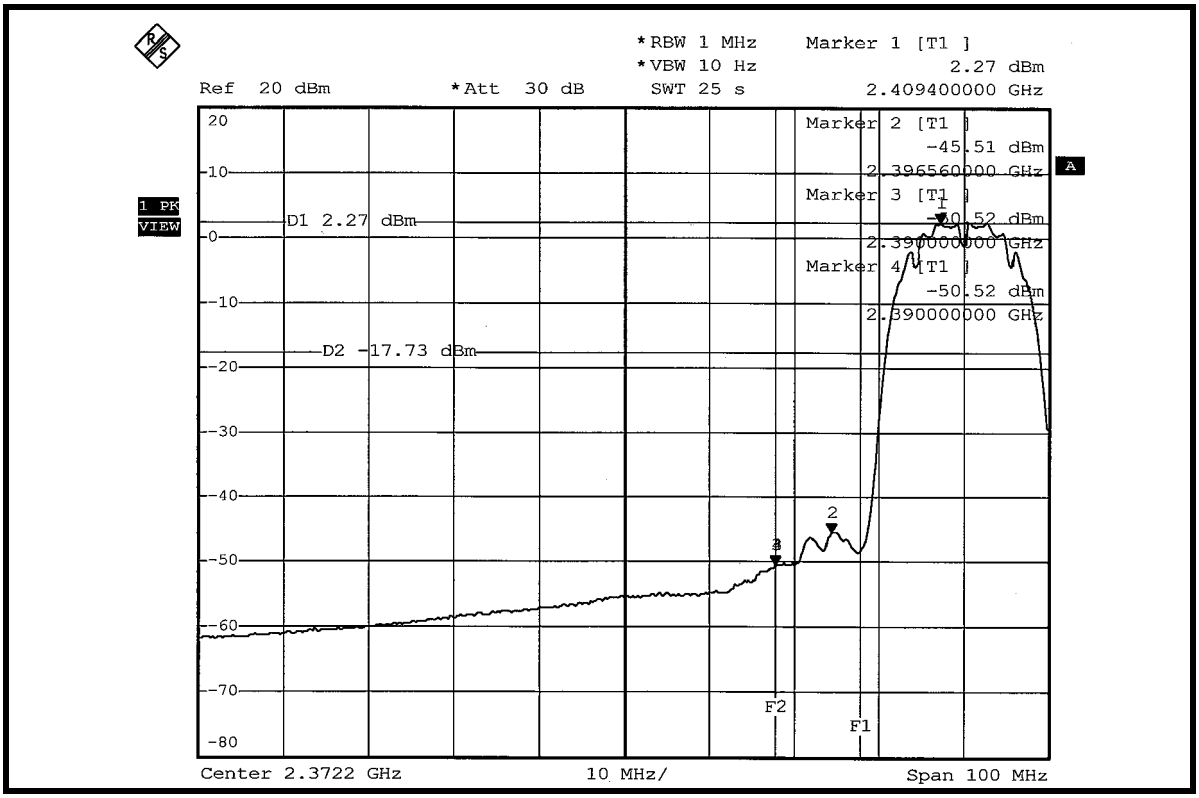
NOTE 2:

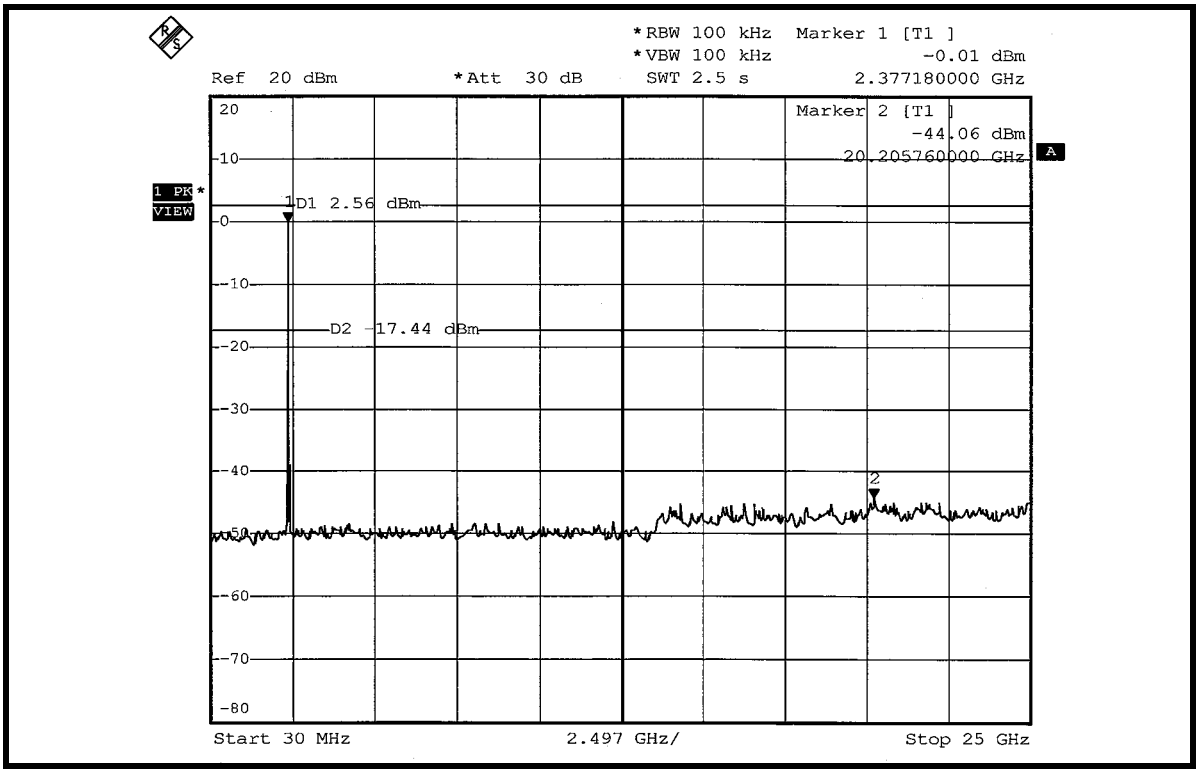
The band edge emission plot on the page 84 show 50.66dBc delta between carrier maximum power and local maximum emission in restrict band (2.4877GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.41dBuV/m (Peak), so the maximum field strength in restrict band is 101.41 –50.66 = 50.75dBuV/m, which is under 74dBuV/m limit.

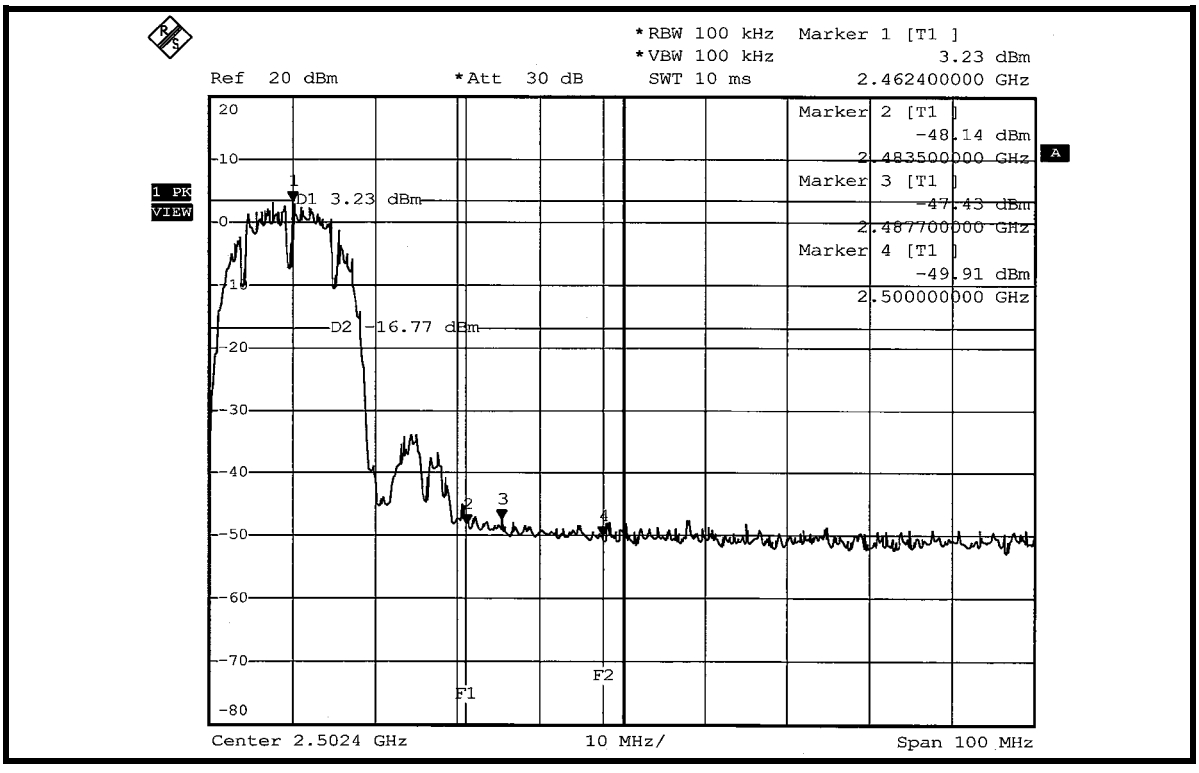
The band edge emission plot on the page 85 show 51.35dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 98.41dBuV/m (Average), so the maximum field strength in restrict band is 98.41 –51.35 = 45.62dBuV/m, which is under 54dBuV/m limit.

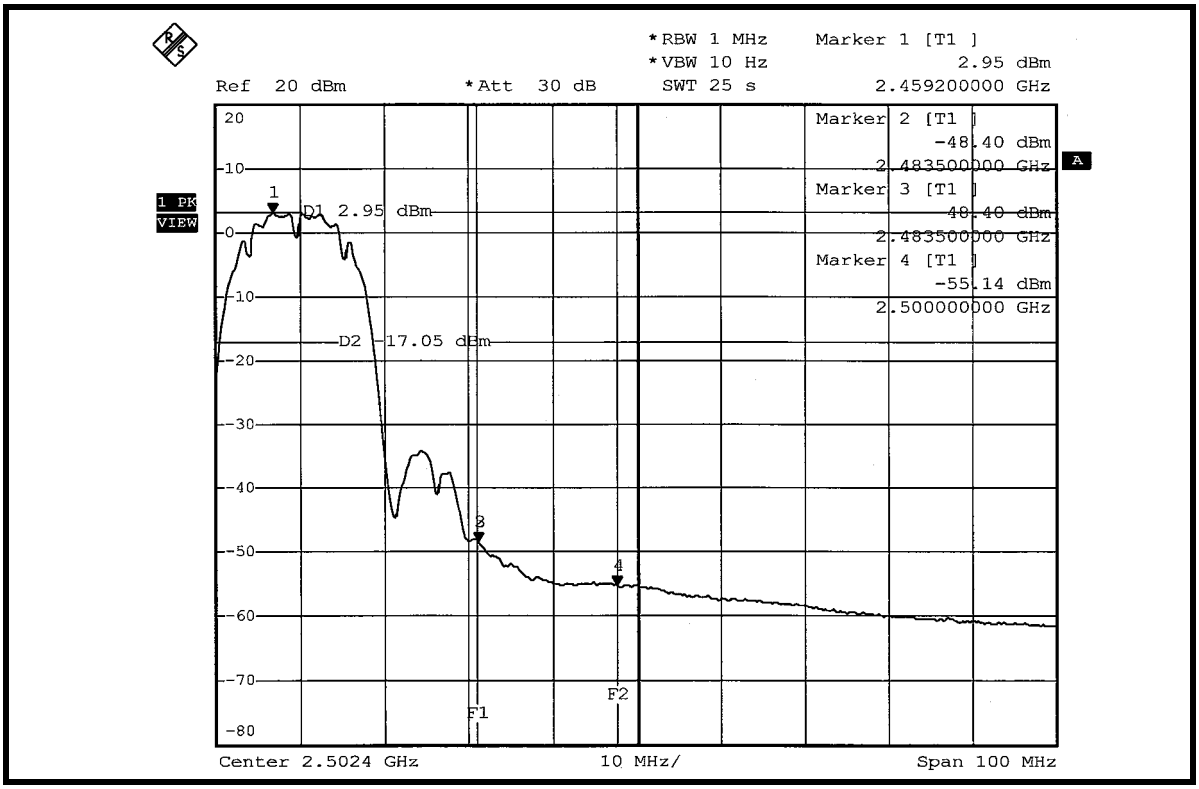
802.11b DSSS MODULATION

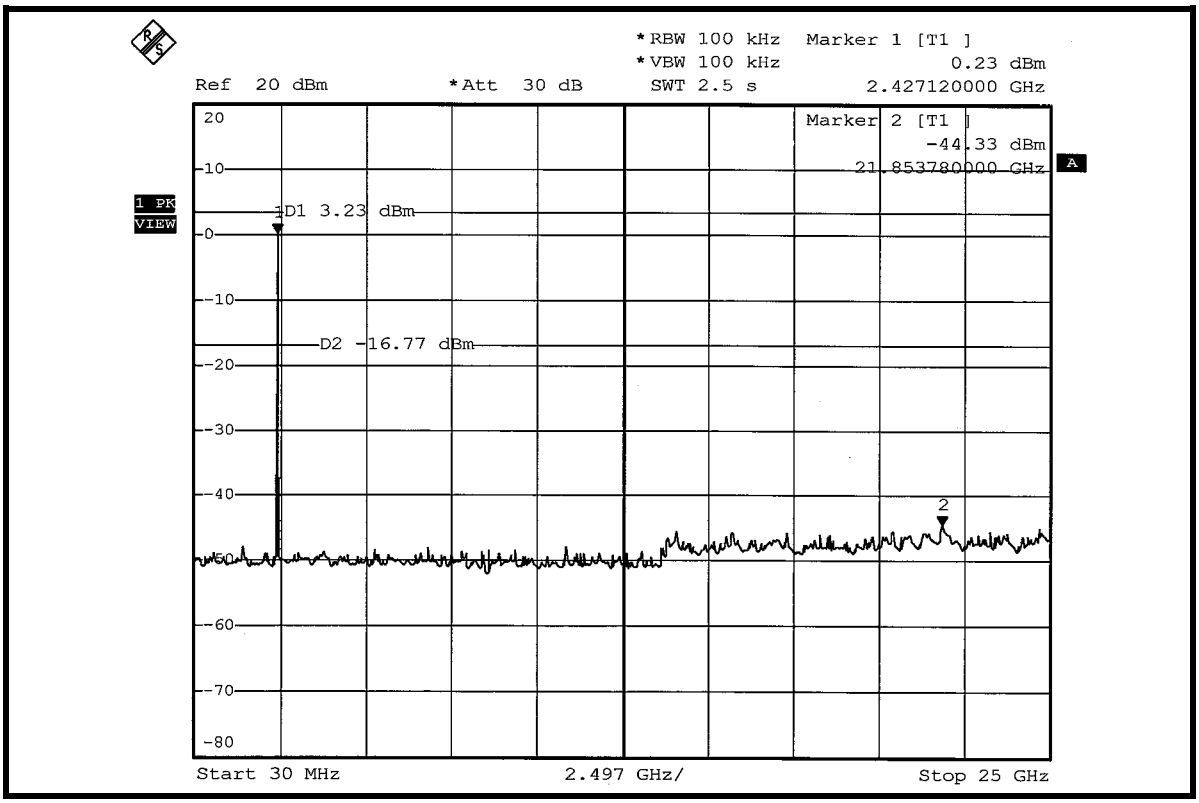





*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
-0.01 dBm
2.377180000 GHz
Ref 20 dBm
*Att 30 dB
Marker 2 [T1]
-44.06 dBm
20.205760000 GHz
1 PK
VIEW
D1 2.56 dBm
D2 -17.44 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
3.23 dBm
2.462400000 GHz
Ref 20 dBm
*Att 30 dB
Marker 2 [T1]
-48.14 dBm
2.483500000 GHz
Marker 3 [T1]
-47.43 dBm
2.487700000 GHz
Marker 4 [T1]
-49.91 dBm
2.500000000 GHz
1 PK
VIEW
D1 3.23 dBm
D2 -16.77 dBm
F1
F2
Center 2.5024 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
SWT 25 s
Marker 1 [T1]
2.95 dBm
2.459200000 GHz
Ref 20 dBm
*Att 30 dB
Marker 2 [T1]
-48.40 dBm
2.483500000 GHz
Marker 3 [T1]
-48.40 dBm
2.483500000 GHz
Marker 4 [T1]
-55.14 dBm
2.500000000 GHz
1 PK
VIEW
D1 2.95 dBm
D2 -17.05 dBm
F1
F2
Center 2.5024 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
0.23 dBm
2.427120000 GHz
Ref 20 dBm
*Att 30 dB
Marker 2 [T1]
-44.33 dBm
21.853780000 GHz
1 PK
VIEW
D1 3.23 dBm
D2 -16.77 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

802.11g OFDM MODULATION

NOTE 1:

The band edge emission plot on page 87 show 42.00dBc delta between carrier maximum power and local maximum emission in restrict band (2.3892GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.08dBuV/m (Peak), so the maximum field strength in restrict band is 105.08 – 42.00 = 63.08dBuV/m, which is under 74dBuV/m limit.

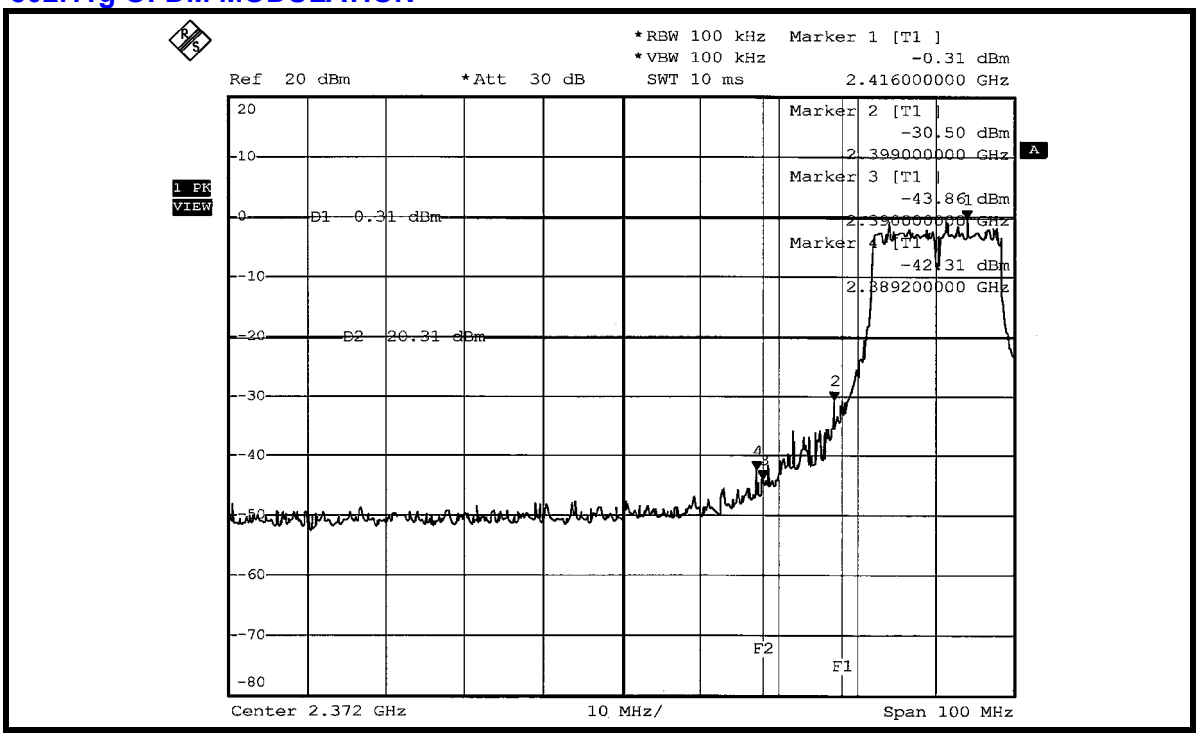
The band edge emission plot on page 87 show 47.83Bc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 95.82dBuV/m (Average), so the maximum field strength in restrict band is 95.82 –47.83 = 47.99dBuV/m, which is under 54dBuV/m limit.

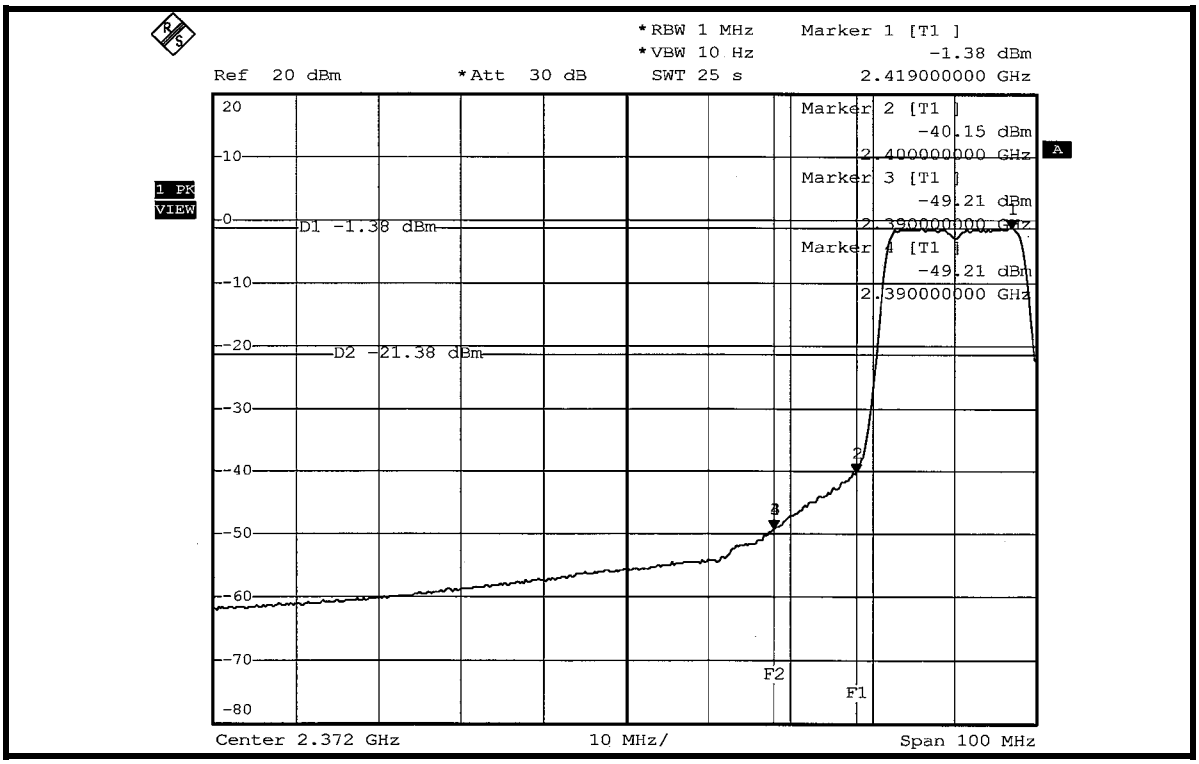
NOTE 2:

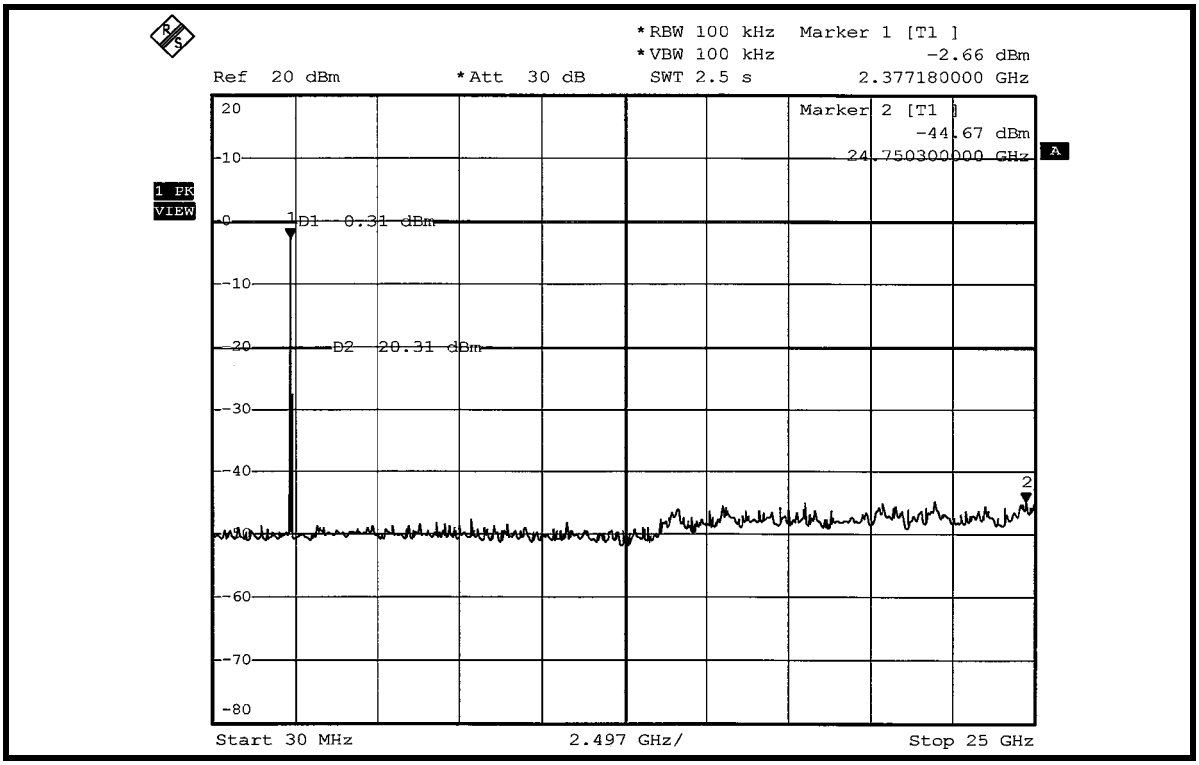
The band edge emission plot on the page 88 show 39.12dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.75dBuV/m (Peak), so the maximum field strength in restrict band is 104.75 –39.12 = 65.63dBuV/m, which is under 74dBuV/m limit.

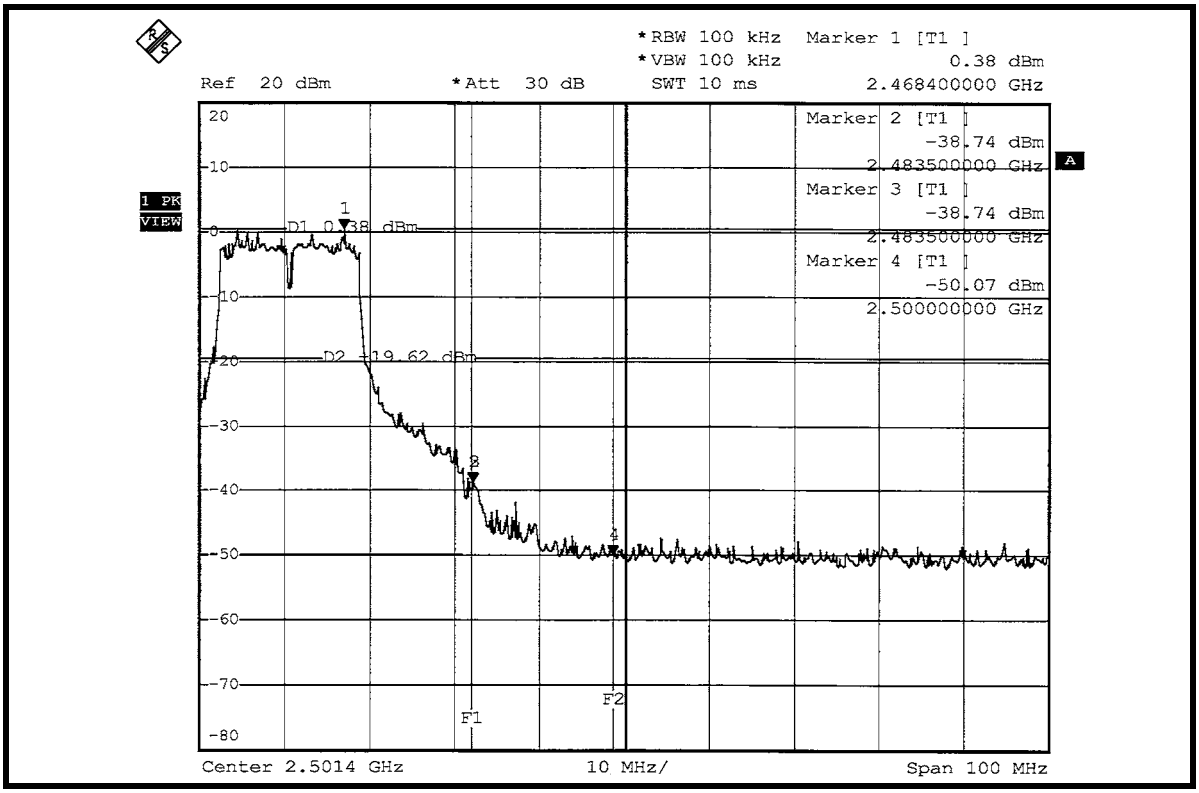
The band edge emission plot on the page 89 show 42.02dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 94.94dBuV/m (Average), so the maximum field strength in restrict band is 94.94 –42.02 = 52.92dBuV/m, which is under 54dBuV/m limit.

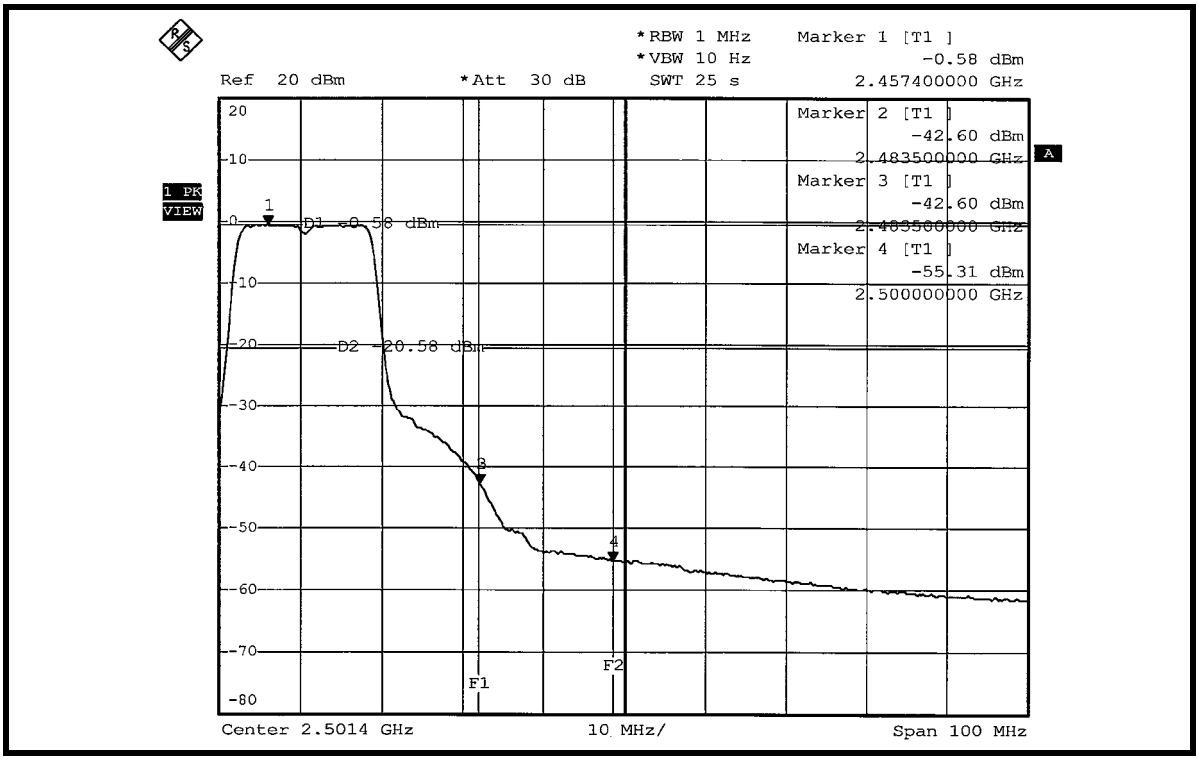
802.11g OFDM MODULATION

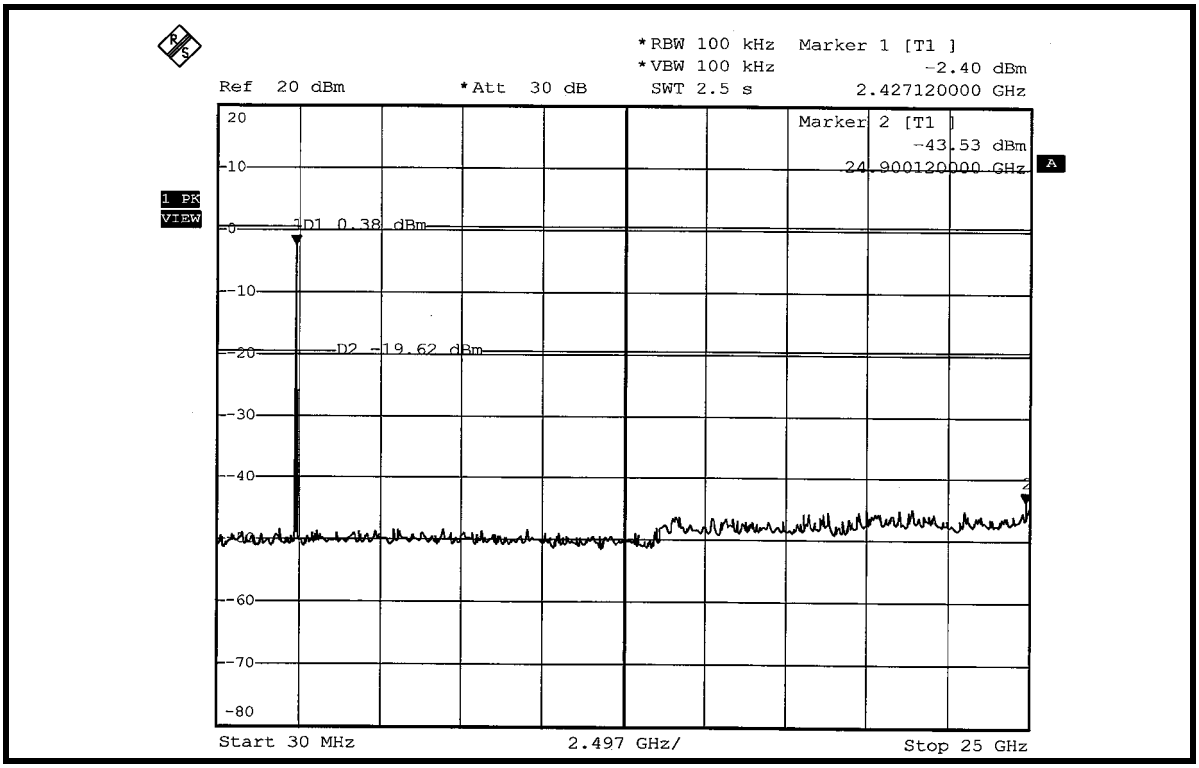





*RBW 100 kHz
*VBW 100 kHz
SWT 2.5 s
Marker 1 [T1]
-2.66 dBm
2.377180000 GHz
Ref 20 dBm
*Att 30 dB
Marker 2 [T1]
-44.67 dBm
24.750300000 GHz
1 PK
VIEW
D1 0.31 dBm
D2 20.31 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
0.38 dBm
2.468400000 GHz
Ref 20 dBm
*Att 30 dB
Marker 2 [T1]
-38.74 dBm
2.483500000 GHz
Marker 3 [T1]
-38.74 dBm
2.483500000 GHz
Marker 4 [T1]
-50.07 dBm
2.500000000 GHz
1 PK
VIEW
D1 0.38 dBm
D2 -19.62 dBm
F1
F2
Center 2.5014 GHz
10 MHz/
Span 100 MHz


*RBW 1 MHz
*VBW 10 Hz
Ref 20 dBm
*Att 30 dB
SWT 25 s
Marker 1 [T1]
-0.58 dBm
2.457400000 GHz
Marker 2 [T1]
-42.60 dBm
2.483500000 GHz
Marker 3 [T1]
-42.60 dBm
2.483500000 GHz
Marker 4 [T1]
-55.31 dBm
2.500000000 GHz
1 PK
VIEW
A
D1 -0.58 dBm
D2 -20.58 dBm
F1
F2
Center 2.5014 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 2.5 s
Marker 1 [T1]
-2.40 dBm
2.427120000 GHz
Marker 2 [T1]
-43.53 dBm
24.900120000 GHz
1 PK
VIEW
A
D1 0.38 dBm
D2 -19.62 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

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 PIFA antenna without connector. The maximum Gain of the antenna is –1.0dBi.

5. 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, 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
Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:
Tel: 886-3-3183232
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.

APPENDIX-A

MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test