

FCC TEST REPORT

REPORT NO.: RF960319L08

MODEL NO.: WET200

RECEIVED: May 10, 2007

TESTED: May 16 ~ May 30, 2007

ISSUED: Jun. 01, 2007

APPLICANT: Cisco-Linksys LLC

ADDRESS: 121 Theory Drive Irvine, CA 92617 (USA)

ISSUED BY: Advance Data Technology Corporation

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1. CERTIFICATION

PRODUCT: Wireless-G Business Ethernet Bridge

MODEL: WET200

BRAND: Linksys

APPLICANT: Cisco-Linksys LLC

TESTED: May 16 ~ May 30, 2007

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

ANSI C63.4-2003

The above equipment (model: WET200) 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 : Rennie Wang , **DATE:** Jun. 01, 2007
Rennie Wang / Senior Specialist

TECHNICAL
ACCEPTANCE : Long Chen , **DATE:** Jun. 01, 2007
Responsible for RF Long Chen / Senior Engineer

APPROVED BY : Gary Chang , **DATE:** Jun. 01, 2007
Gary Chang / Supervisor

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 -11.15dB at 9.762MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -1.02dB at 50.47MHz, 250.02MHz, 375.30MHz
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 ~ 1000MHz	4.03 dB
	1GHz ~ 40GHz	2.26 dB

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Wireless-G Business Ethernet Bridge
MODEL NO.	WET200
FCC ID	Q87-WET200
POWER SUPPLY	48Vdc from PoE 12Vdc from AC adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	64.121mW
ANTENNA TYPE	Dipole antenna with 1.8dBi gain
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	Adapter x3

NOTE:

1. The EUT was powered with following adapters & PoE:

Adapter 1	
Brand	Linksys
Model	RH41-1200500DU
Input Power	120Vac, 60Hz, 16W
Output Power	12Vdc, 500mA
Power Line	1.9m non-shielded cable with one core

Adapter 2	
Brand	Linksys (EXH)
Model	AD12V/0.5A-SW
Input Power	100-240Vac, 50-60Hz, 0.5A
Output Power	12Vdc, 0.5A MAX
Power Line	1.8m non-shielded cable with one core

Adapter 3	
Brand	Linksys (ENG)
Model	AD12V/0.5A-SW
Input Power	100-240Vac, 50-60Hz, 0.2A
Output Power	12Vdc, 0.5A MAX
Power Line	1.8m non-shielded cable with one core

PoE	
Brand	PowerDsine™ 3001
Model	PD-3001/AC
Input Power	100-250Vac, 50-60Hz, 0.5A
Output Power	48Vdc, 0.35A

**The PoE is for support unit only.

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

3.2 DESCRIPTION OF TEST MODES

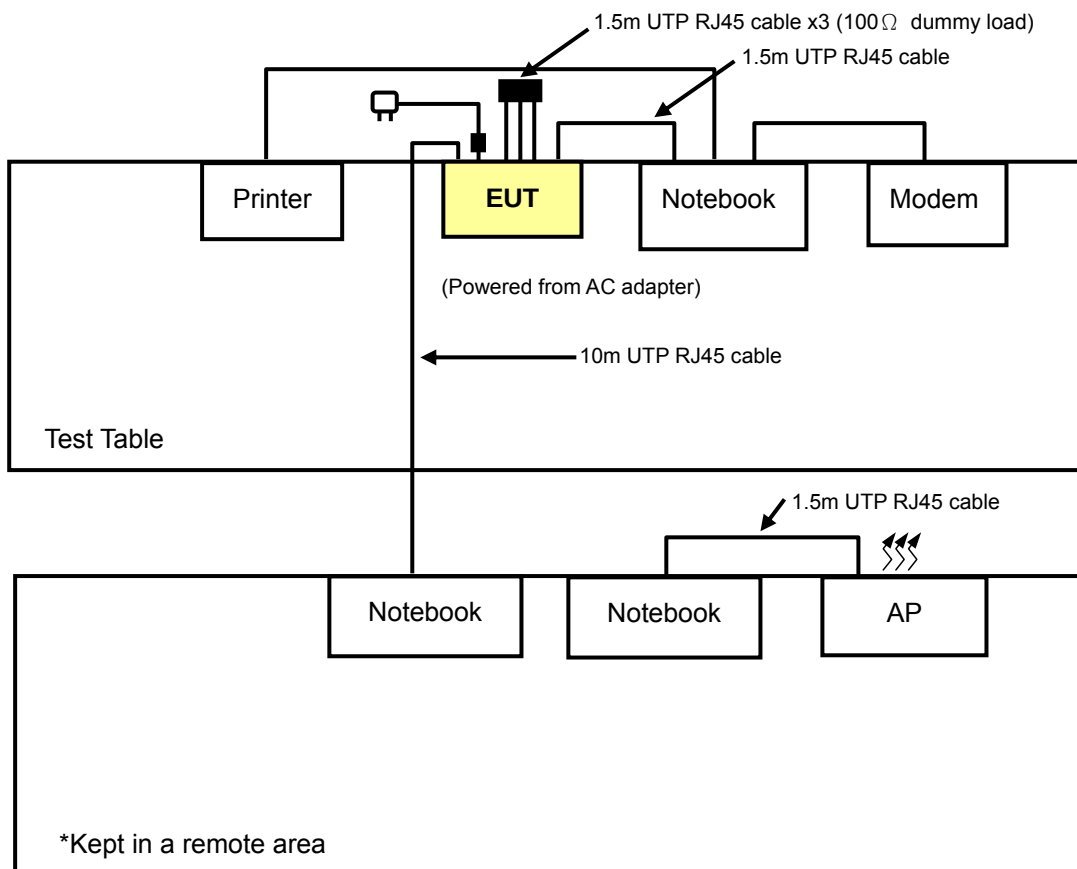
Eleven channels are provided to this EUT.

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

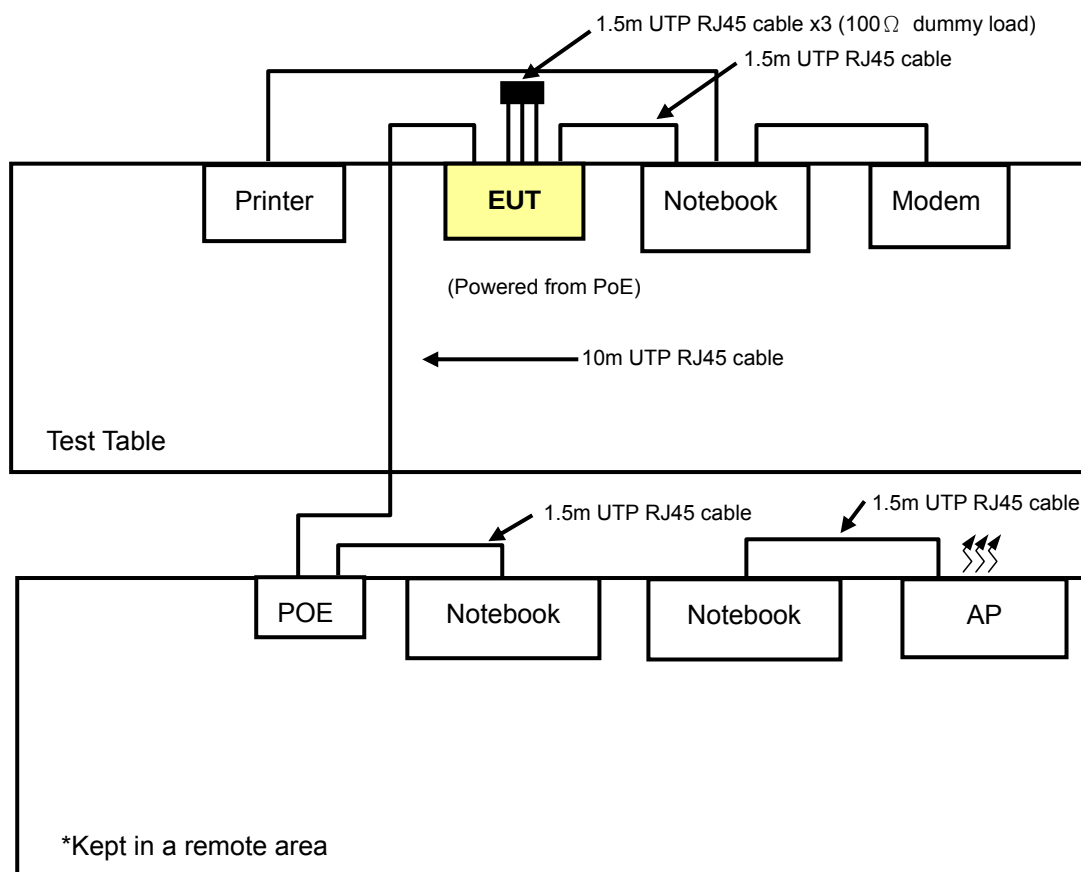
3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

For radiated emission below 1GHz test:

Test mode A, B, C (adapter mode):

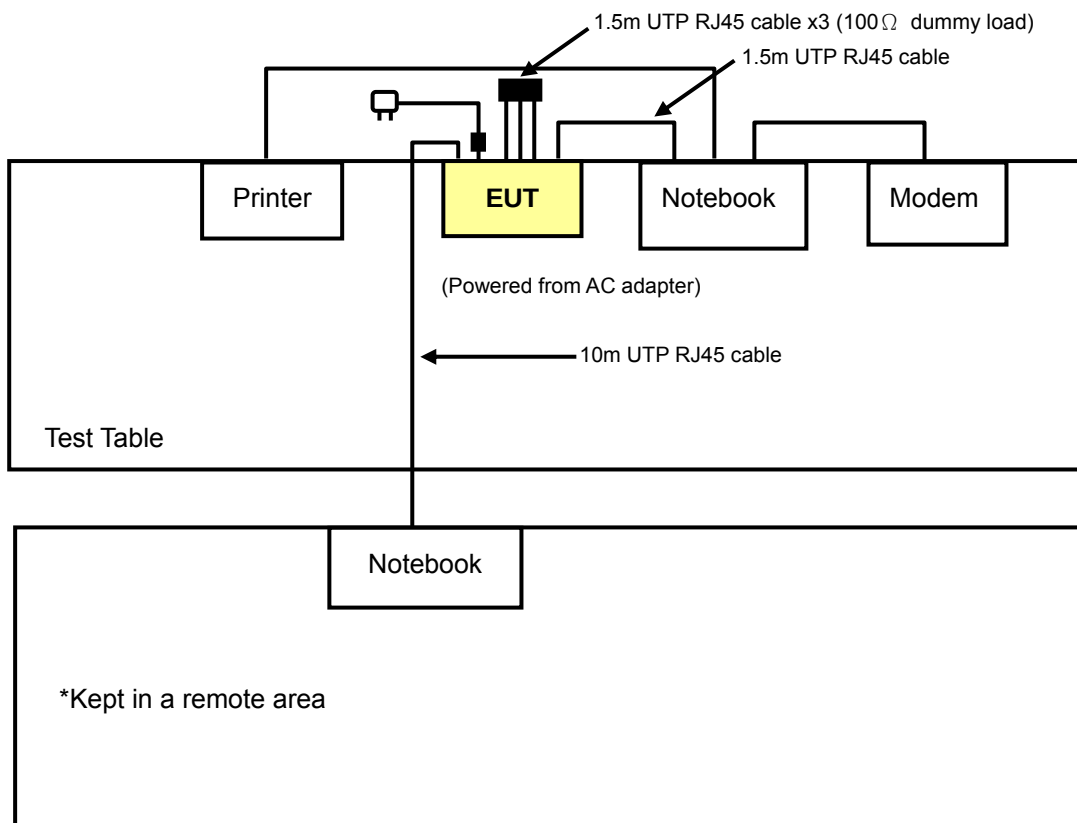


Test mode D (PoE mode):

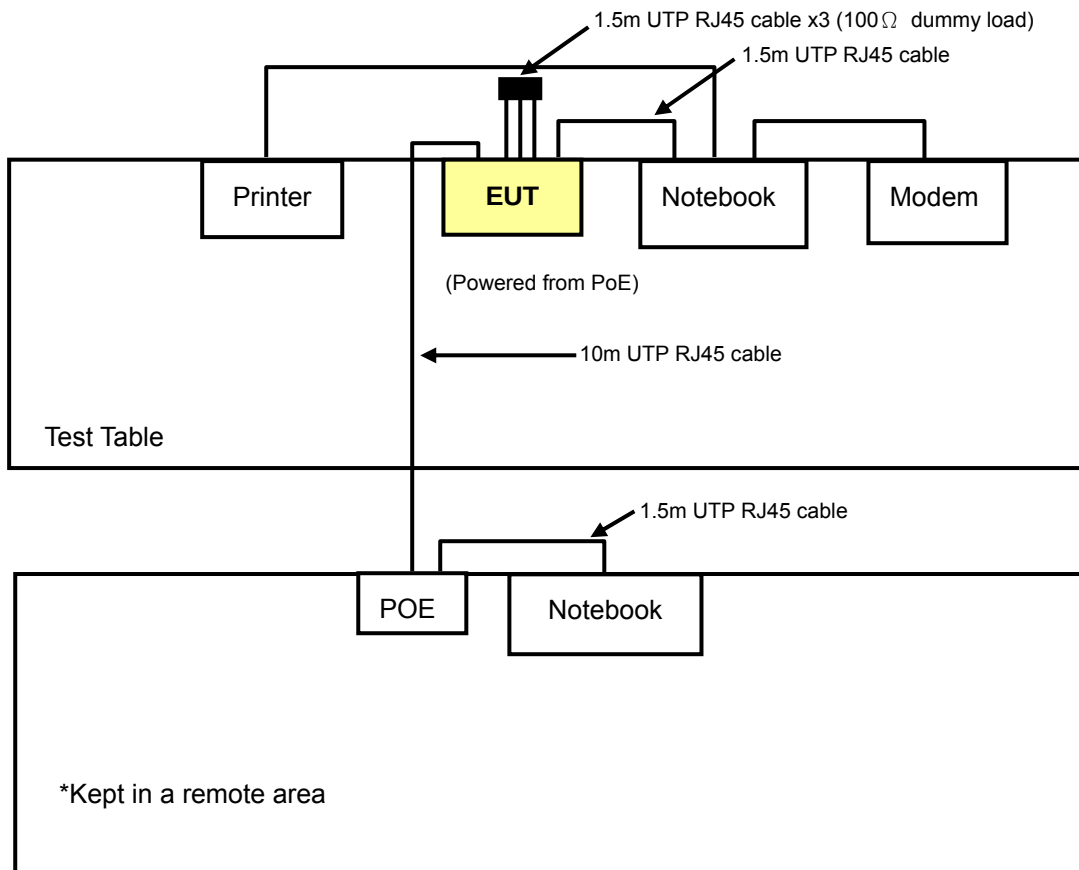


For radiated emission above 1GHz test:

Test mode A, B, C (adapter mode):



Test mode D (PoE mode):



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE<1G	RE≥1G	APCM	
A	√	√	√	√	Powered from Adapter 1
B	√	√	-	-	Powered from Adapter 2
C	√	√	-	-	Powered from Adapter 3
D	√	√	-	-	Powered from PoE

Where **PLC:** Power Line Conducted Emission

RE<1G: 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	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
C	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
D	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

RADIATED EMISSION TEST (BELOW 1 GHz):

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
A	802.11g	1 to 11	11	OFDM	BPSK	6	Z
B	802.11g	1 to 11	11	OFDM	BPSK	6	Z
C	802.11g	1 to 11	11	OFDM	BPSK	6	Z
D	802.11g	1 to 11	11	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, X, Y, Z Axis and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	Z
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Z

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.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 11	DSSS	DBPSK	1
A	802.11g	1 to 11	1, 11	OFDM	BPSK	6

ANTENNA PORT CONDUCTED MEASUREMENT:

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

3.2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an 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.

3.2.4 DESCRIPTION OF SUPPORT UNITS

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

For radiated emission below 1GHz test:

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	D600	CN-0G5152-486 43-49C-8398	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY017096	FCC DoC Approved
3	MODEM	ACEEX	1414	980020502	IFAXDM1414
4	NOTEBOOK COMPUTER	DELL	PP05L	24729091408	FCC DoC Approved
5	NOTEBOOK COMPUTER	DELL	PP05L	20375526736	FCC DoC Approved
6	AP	LINKSYS	NA	NA	NA
7	PoE	PowerDsine™ 3001	PD-3001/AC	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.5m UTP RJ45 cable
2	1.8m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
4	10m UTP RJ45 cable
5	1.5m UTP RJ45 cable
6	NA
7	NA

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 4-7 is acted as a communication partner to transfer data.
3. Item 7 was provided by client.

For all tests besides radiated emission below 1GHz test:

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	33898721680	E2K24CLNS
2	PRINTER	EPSON	LQ-300+	DCGY054146	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008260	IFAXDM1414
4	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS
5	PoE	PowerDsine™ 3001	PD-3001/AC	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.5m UTP RJ45 cable
2	1.6m shielded cable
3	1.6m shielded cable
4	10m UTP RJ45 cable
5	NA

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 4-5 is acted as a communication partner to transfer data.
3. Item 5 was provided by client.

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	100288	Sep. 25, 2007
RF signal cable Woken	5D-FB	Cable-HYCO3-01	Jan. 06, 2008
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 08, 2008
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jan. 16, 2008
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 2.
 3. The VCCI Site Registration No. is C-2047.

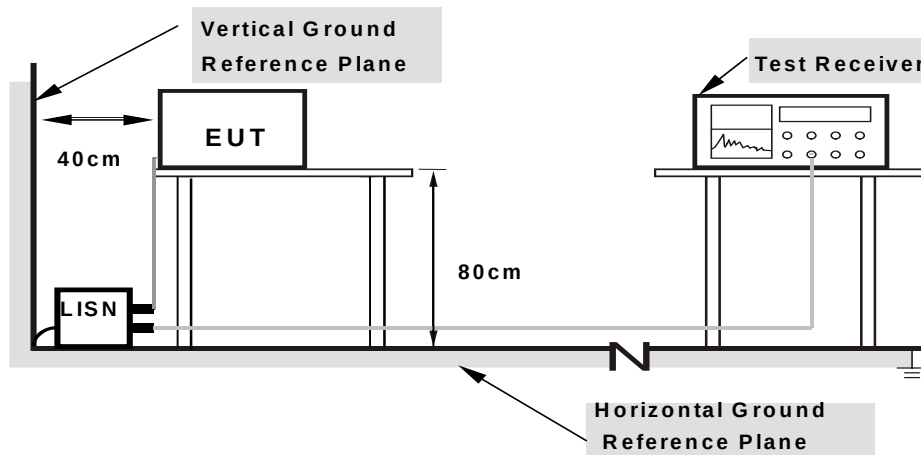
4.1.3 TEST PROCEDURES

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- Connected the EUT to a notebook placed on a testing table.
- The notebook ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the system in full functions.
- Prepared another notebook system to act as a communication partner and placed it outside of testing area.
- The communication partner connected with EUT via a UTP cable and run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The communication partner sent data to EUT by command "PING".

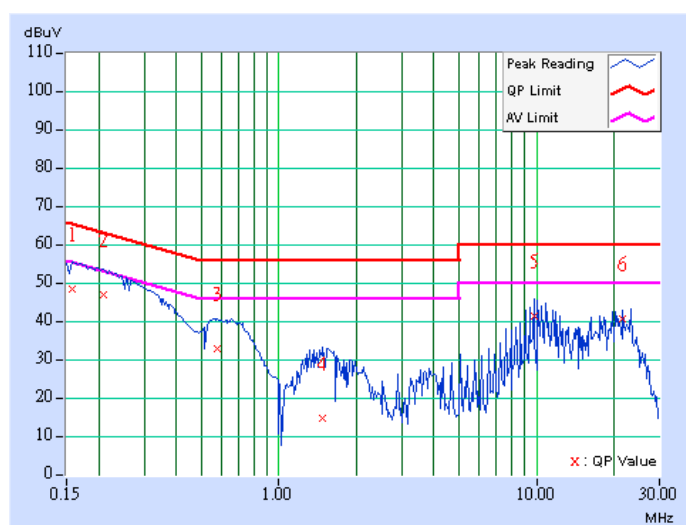
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA FOR TEST MODE A: ADAPTER 1

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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	47.96	-	48.06	-	65.58	55.58	-17.52	-
2	0.209	0.10	46.33	-	46.43	-	63.26	53.26	-16.83	-
3	0.580	0.10	32.22	-	32.32	-	56.00	46.00	-23.68	-
4	1.484	0.16	14.34	-	14.50	-	56.00	46.00	-41.50	-
5	9.762	0.33	40.94	-	41.27	-	60.00	50.00	-18.73	-
6	21.664	0.65	40.12	-	40.77	-	60.00	50.00	-19.23	-

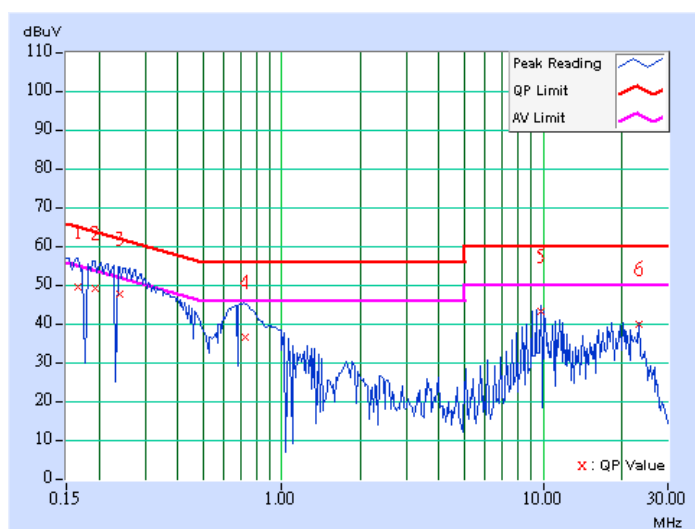
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	49.12	-	49.22	-	65.18	55.18	-15.96	-
2	0.193	0.10	48.43	-	48.53	-	63.91	53.91	-15.38	-
3	0.240	0.10	47.22	-	47.32	-	62.10	52.10	-14.78	-
4	0.728	0.16	35.99	-	36.15	-	56.00	46.00	-19.85	-
5	9.758	0.42	42.71	-	43.13	-	60.00	50.00	-16.87	-
6	23.129	0.66	39.29	-	39.95	-	60.00	50.00	-20.05	-

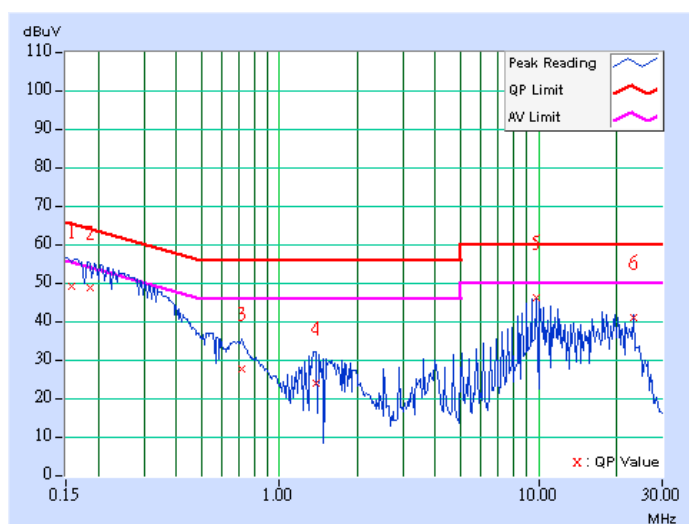
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	48.53	-	48.63	-	65.58	55.58	-16.95	-
2	0.185	0.10	47.98	-	48.08	-	64.25	54.25	-16.17	-
3	0.720	0.11	27.10	-	27.21	-	56.00	46.00	-28.79	-
4	1.387	0.15	23.32	-	23.47	-	56.00	46.00	-32.53	-
5	9.754	0.33	45.74	-	46.07	-	60.00	50.00	-13.93	-
6	23.129	0.73	40.37	-	41.10	-	60.00	50.00	-18.90	-

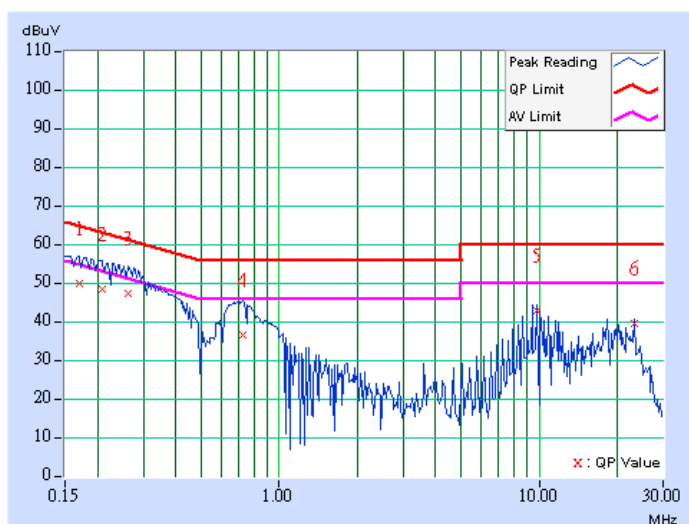
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	49.17	-	49.27	-	64.98	54.98	-15.71	-
2	0.209	0.10	47.89	-	47.99	-	63.26	53.26	-15.27	-
3	0.263	0.10	46.63	-	46.73	-	61.33	51.33	-14.60	-
4	0.724	0.16	36.07	-	36.23	-	56.00	46.00	-19.77	-
5	9.758	0.42	42.46	-	42.88	-	60.00	50.00	-17.12	-
6	23.129	0.66	38.81	-	39.47	-	60.00	50.00	-20.53	-

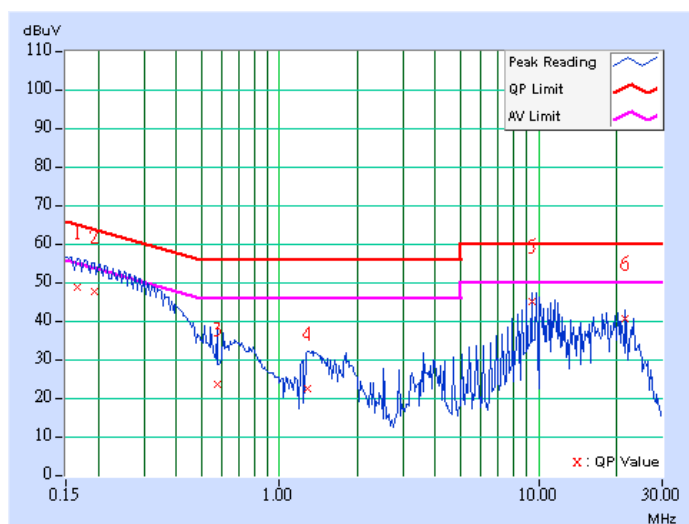
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	48.27	-	48.37	-	65.18	55.18	-16.81	-
2	0.193	0.10	47.19	-	47.29	-	63.91	53.91	-16.62	-
3	0.576	0.10	22.87	-	22.97	-	56.00	46.00	-33.03	-
4	1.289	0.14	21.90	-	22.04	-	56.00	46.00	-33.96	-
5	9.391	0.32	44.65	-	44.97	-	60.00	50.00	-15.03	-
6	21.664	0.65	39.94	-	40.59	-	60.00	50.00	-19.41	-

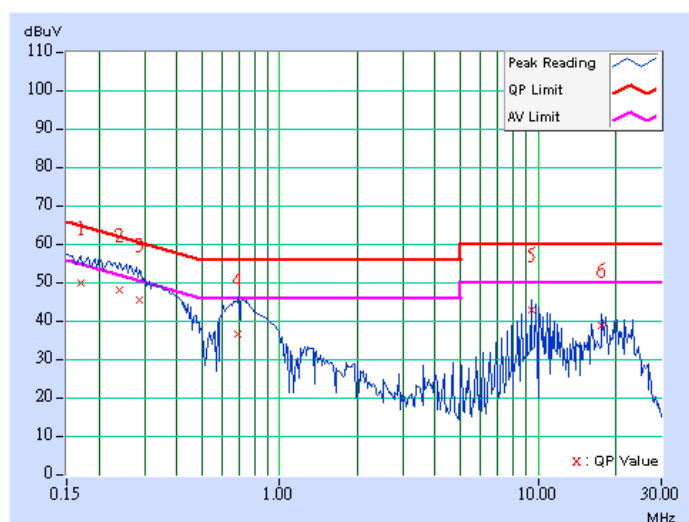
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	49.31	-	49.41	-	64.98	54.98	-15.57	-
2	0.240	0.10	47.45	-	47.55	-	62.10	52.10	-14.55	-
3	0.287	0.10	45.04	-	45.14	-	60.62	50.62	-15.48	-
4	0.693	0.15	36.06	-	36.21	-	56.00	46.00	-19.79	-
5	9.391	0.41	42.47	-	42.88	-	60.00	50.00	-17.12	-
6	17.695	0.53	38.25	-	38.78	-	60.00	50.00	-21.22	-

- 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.

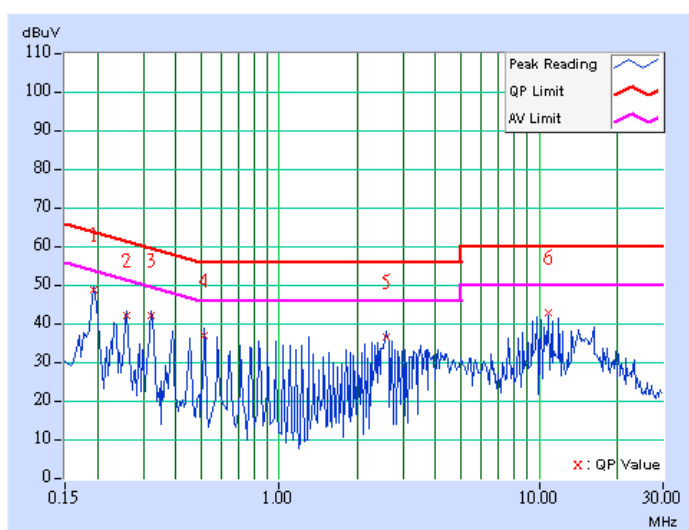


FOR TEST MODE B: ADAPTER 2

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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.37	-	48.47	-	63.91	53.91	-15.44	-
2	0.259	0.10	41.76	-	41.86	-	61.45	51.45	-19.59	-
3	0.322	0.10	42.01	-	42.11	-	59.66	49.66	-17.55	-
4	0.517	0.10	36.76	-	36.86	-	56.00	46.00	-19.14	-
5	2.586	0.24	36.46	-	36.70	-	56.00	46.00	-19.30	-
6	10.848	0.36	42.68	-	43.04	-	60.00	50.00	-16.96	-

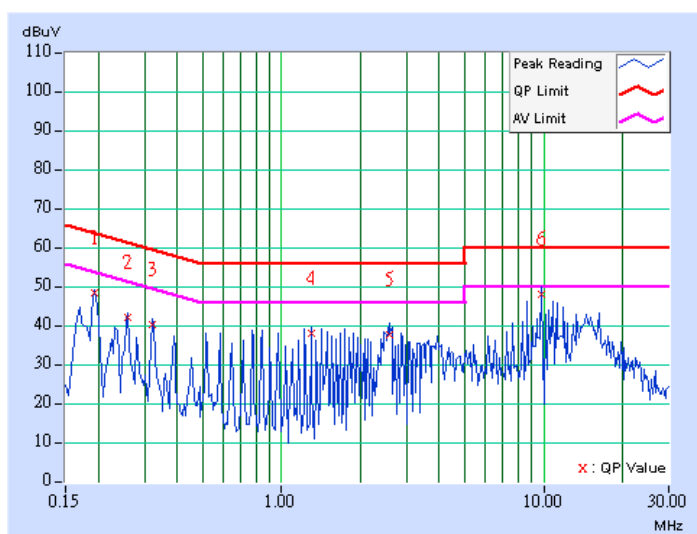
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.17	-	48.27	-	63.91	53.91	-15.64	-
2	0.259	0.10	41.66	-	41.76	-	61.45	51.45	-19.69	-
3	0.322	0.10	40.12	-	40.22	-	59.66	49.66	-19.44	-
4	1.293	0.21	37.76	-	37.97	-	56.00	46.00	-18.03	-
5	2.586	0.24	37.47	-	37.71	-	56.00	46.00	-18.29	-
6	9.766	0.42	47.66	-	48.08	-	60.00	50.00	-11.92	-

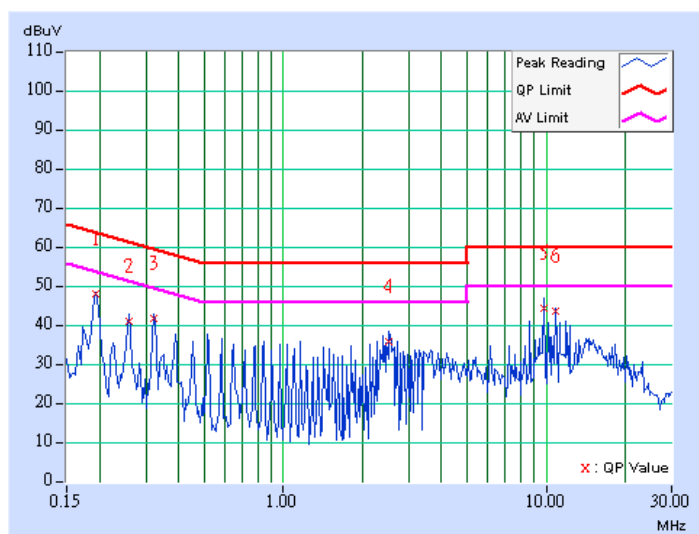
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	47.78	-	47.88	-	63.91	53.91	-16.03	-
2	0.259	0.10	40.81	-	40.91	-	61.45	51.45	-20.54	-
3	0.322	0.10	41.58	-	41.68	-	59.66	49.66	-17.98	-
4	2.523	0.24	35.41	-	35.65	-	56.00	46.00	-20.35	-
5	9.762	0.33	44.27	-	44.60	-	60.00	50.00	-15.40	-
6	10.844	0.36	43.26	-	43.62	-	60.00	50.00	-16.38	-

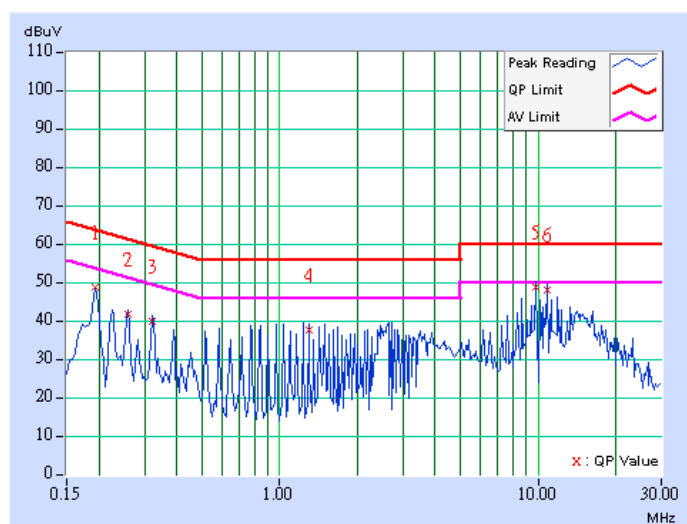
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.44	-	48.54	-	63.91	53.91	-15.37	-
2	0.259	0.10	41.58	-	41.68	-	61.45	51.45	-19.77	-
3	0.322	0.10	39.61	-	39.71	-	59.66	49.66	-19.95	-
4	1.293	0.21	37.44	-	37.65	-	56.00	46.00	-18.35	-
5	9.762	0.42	48.43	-	48.85	-	60.00	50.00	-11.15	-
6	10.848	0.44	47.72	-	48.16	-	60.00	50.00	-11.84	-

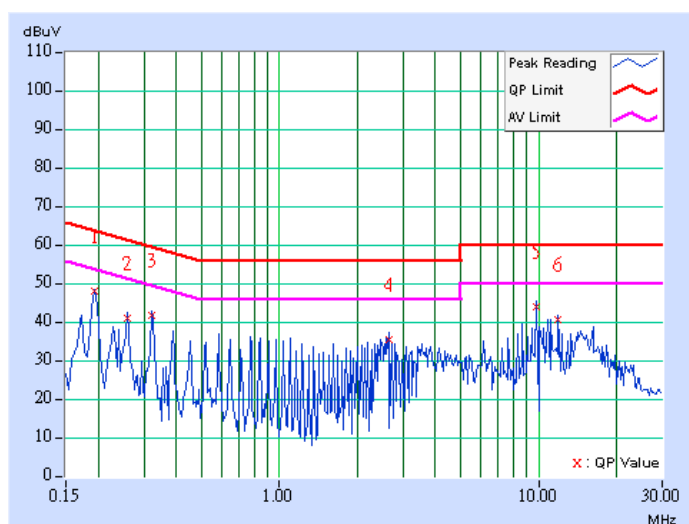
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	47.66	-	47.76	-	63.91	53.91	-16.15	-
2	0.259	0.10	40.73	-	40.83	-	61.45	51.45	-20.62	-
3	0.322	0.10	41.52	-	41.62	-	59.66	49.66	-18.04	-
4	2.652	0.24	35.01	-	35.25	-	56.00	46.00	-20.75	-
5	9.762	0.33	43.84	-	44.17	-	60.00	50.00	-15.83	-
6	11.930	0.39	40.40	-	40.79	-	60.00	50.00	-19.21	-

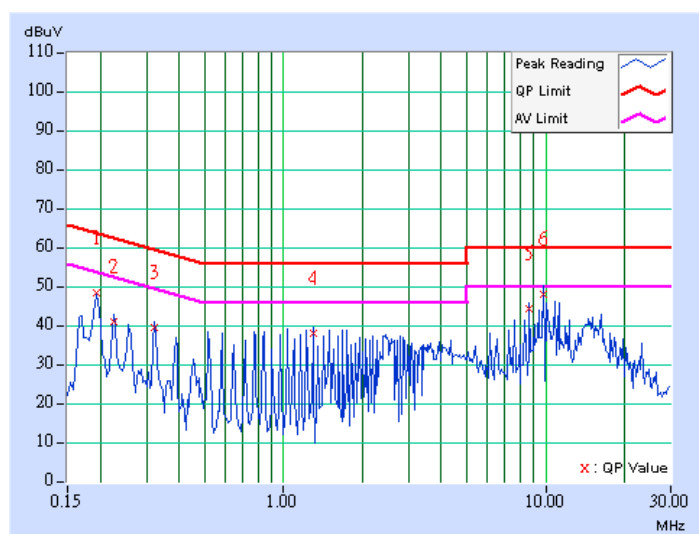
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	47.92	-	48.02	-	63.91	53.91	-15.89	-
2	0.224	0.10	40.87	-	40.97	-	62.66	52.66	-21.69	-
3	0.322	0.10	39.29	-	39.39	-	59.66	49.66	-20.27	-
4	1.293	0.21	37.56	-	37.77	-	56.00	46.00	-18.23	-
5	8.676	0.40	43.97	-	44.37	-	60.00	50.00	-15.63	-
6	9.762	0.42	47.83	-	48.25	-	60.00	50.00	-11.75	-

- 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.

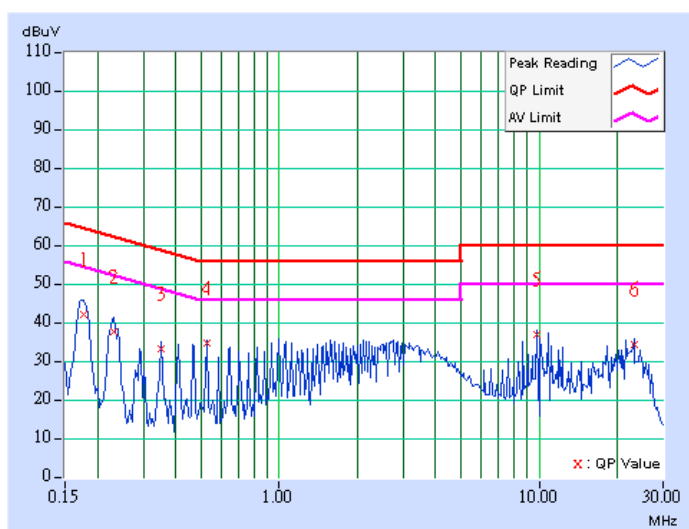


FOR TEST MODE C: ADAPTER 3

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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.10	41.43	-	41.53	-	64.61	54.61	-23.08	-
2	0.232	0.10	36.90	-	37.00	-	62.38	52.38	-25.38	-
3	0.349	0.10	32.44	-	32.54	-	58.98	48.98	-26.44	-
4	0.525	0.10	34.10	-	34.20	-	56.00	46.00	-21.80	-
5	9.758	0.33	36.47	-	36.80	-	60.00	50.00	-23.20	-
6	23.125	0.73	33.86	-	34.59	-	60.00	50.00	-25.41	-

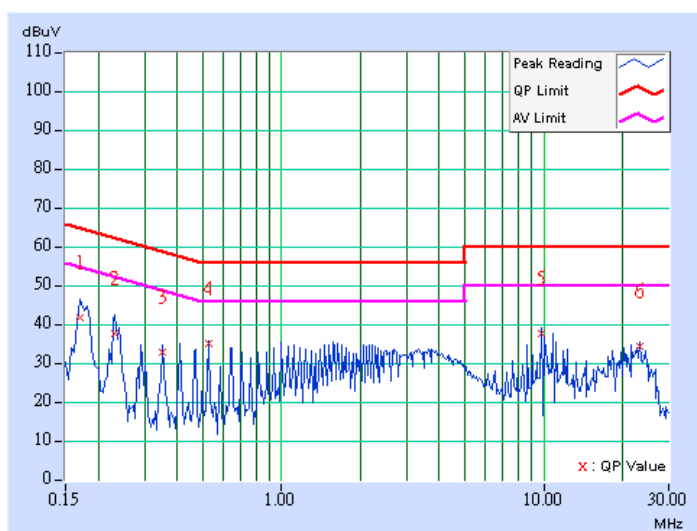
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	41.21	-	41.31	-	64.98	54.98	-23.67	-
2	0.232	0.10	37.04	-	37.14	-	62.38	52.38	-25.24	-
3	0.353	0.10	32.29	-	32.39	-	58.89	48.89	-26.50	-
4	0.529	0.12	34.38	-	34.50	-	56.00	46.00	-21.50	-
5	9.758	0.42	37.20	-	37.62	-	60.00	50.00	-22.38	-
6	23.125	0.66	33.82	-	34.48	-	60.00	50.00	-25.52	-

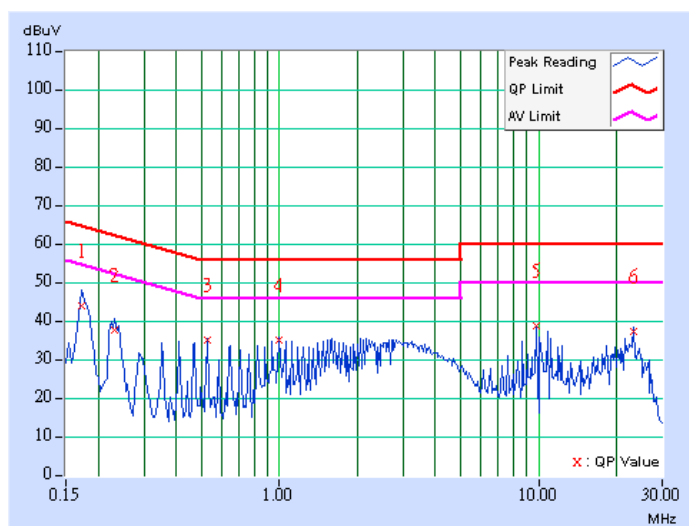
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.10	43.25	-	43.35	-	64.79	54.79	-21.44	-
2	0.232	0.10	37.08	-	37.18	-	62.38	52.38	-25.20	-
3	0.529	0.10	34.30	-	34.40	-	56.00	46.00	-21.60	-
4	0.998	0.11	34.40	-	34.51	-	56.00	46.00	-21.49	-
5	9.758	0.33	38.24	-	38.57	-	60.00	50.00	-21.43	-
6	23.129	0.73	36.84	-	37.57	-	60.00	50.00	-22.43	-

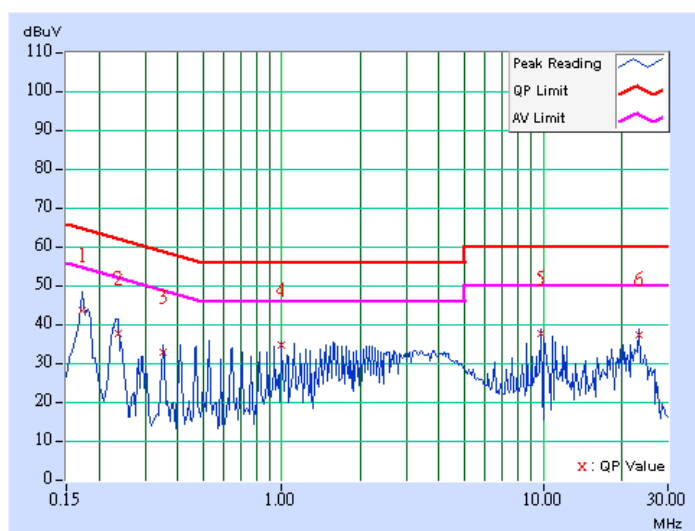
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.10	43.13	-	43.23	-	64.79	54.79	-21.56	-
2	0.236	0.10	37.04	-	37.14	-	62.24	52.24	-25.10	-
3	0.353	0.10	32.35	-	32.45	-	58.89	48.89	-26.44	-
4	0.998	0.21	33.99	-	34.20	-	56.00	46.00	-21.80	-
5	9.758	0.42	37.12	-	37.54	-	60.00	50.00	-22.46	-
6	23.129	0.66	36.72	-	37.38	-	60.00	50.00	-22.62	-

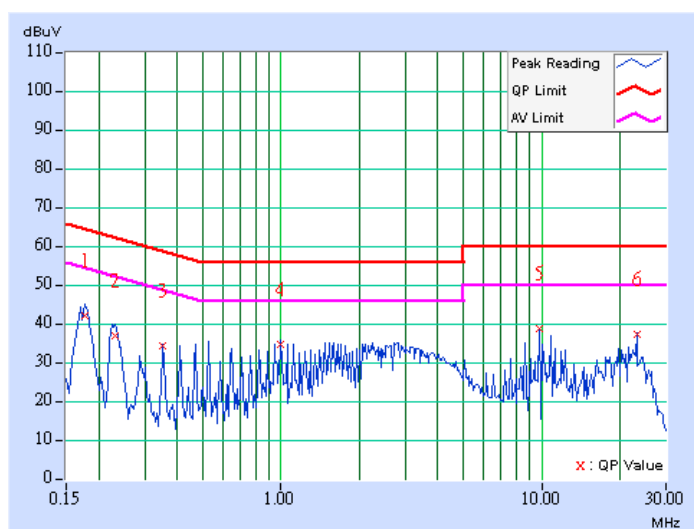
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.10	41.61	-	41.71	-	64.61	54.61	-22.90	-
2	0.232	0.10	36.39	-	36.49	-	62.38	52.38	-25.89	-
3	0.353	0.10	33.70	-	33.80	-	58.89	48.89	-25.09	-
4	1.000	0.11	34.09	-	34.20	-	56.00	46.00	-21.80	-
5	9.758	0.33	37.98	-	38.31	-	60.00	50.00	-21.69	-
6	23.129	0.73	36.74	-	37.47	-	60.00	50.00	-22.53	-

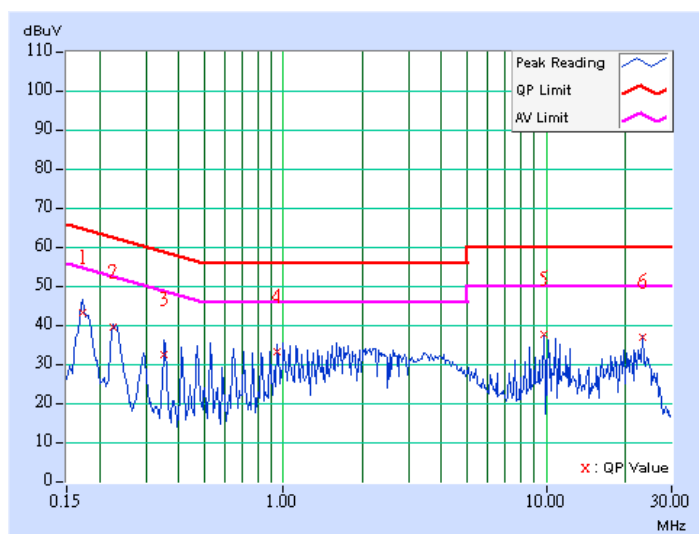
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.10	42.81	-	42.91	-	64.79	54.79	-21.88	-
2	0.224	0.10	39.00	-	39.10	-	62.66	52.66	-23.56	-
3	0.353	0.10	32.05	-	32.15	-	58.89	48.89	-26.74	-
4	0.943	0.20	32.51	-	32.71	-	56.00	46.00	-23.29	-
5	9.762	0.42	37.20	-	37.62	-	60.00	50.00	-22.38	-
6	23.129	0.66	36.46	-	37.12	-	60.00	50.00	-22.88	-

- 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.

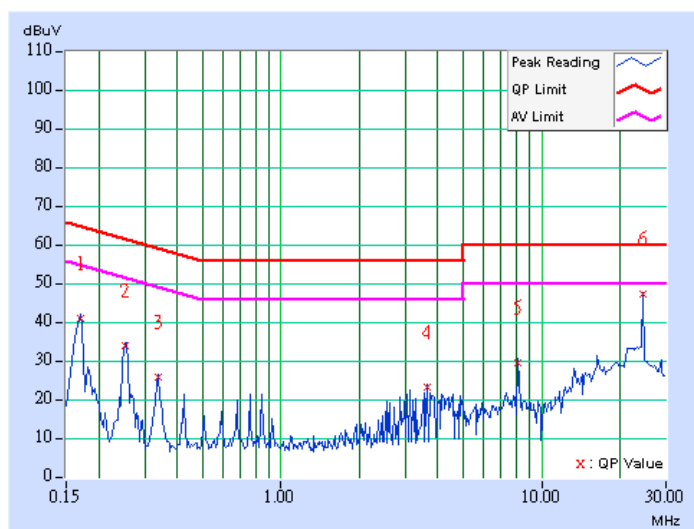


FOR TEST MODE D: POE

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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	40.42	-	40.52	-	64.98	54.98	-24.46	-
2	0.252	0.10	33.35	-	33.45	-	61.71	51.71	-28.26	-
3	0.338	0.10	25.15	-	25.25	-	59.26	49.26	-34.01	-
4	3.633	0.27	22.65	-	22.92	-	56.00	46.00	-33.08	-
5	8.117	0.31	28.70	-	29.01	-	60.00	50.00	-30.99	-
6	24.348	0.79	46.58	-	47.37	-	60.00	50.00	-12.63	-

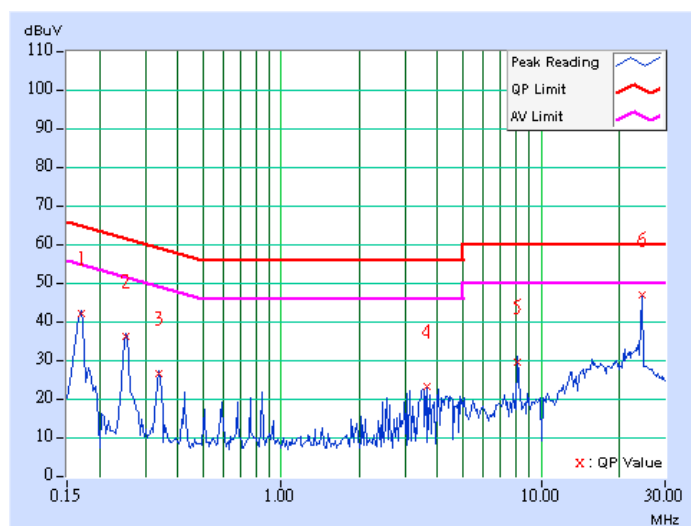
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	41.54	-	41.64	-	64.98	54.98	-23.34	-
2	0.252	0.10	35.44	-	35.54	-	61.71	51.71	-26.17	-
3	0.338	0.10	25.83	-	25.93	-	59.26	49.26	-33.33	-
4	3.633	0.27	22.79	-	23.06	-	56.00	46.00	-32.94	-
5	8.113	0.38	28.81	-	29.19	-	60.00	50.00	-30.81	-
6	24.348	0.70	46.32	-	47.02	-	60.00	50.00	-12.98	-

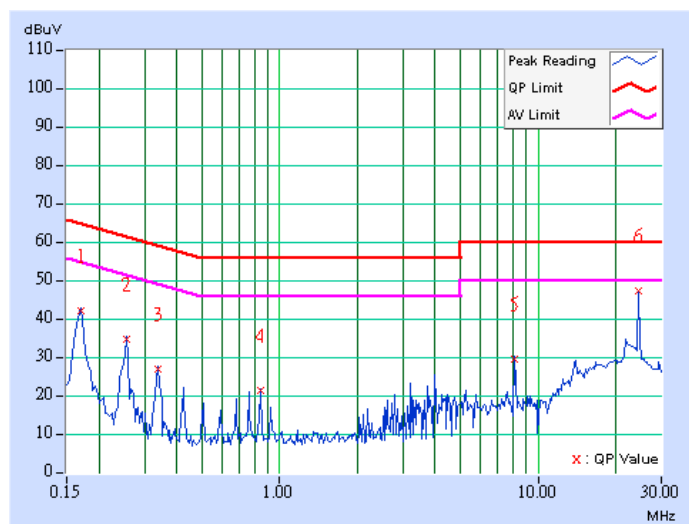
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	41.29	-	41.39	-	64.98	54.98	-23.59	-
2	0.255	0.10	33.94	-	34.04	-	61.58	51.58	-27.54	-
3	0.338	0.10	26.07	-	26.17	-	59.26	49.26	-33.09	-
4	0.845	0.11	20.66	-	20.77	-	56.00	46.00	-35.23	-
5	8.113	0.31	28.67	-	28.98	-	60.00	50.00	-31.02	-
6	24.348	0.79	46.70	-	47.49	-	60.00	50.00	-12.51	-

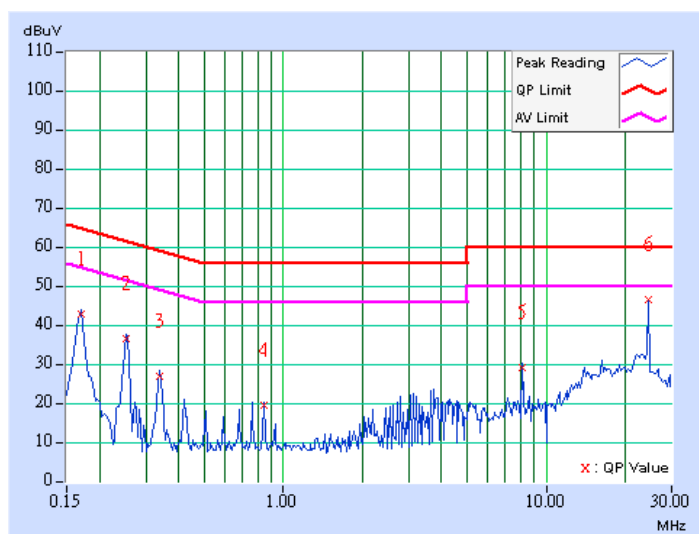
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TESTED BY	Lori Chiu	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	42.15	-	42.25	-	64.98	54.98	-22.73	-
2	0.252	0.10	36.01	-	36.11	-	61.71	51.71	-25.60	-
3	0.338	0.10	26.51	-	26.61	-	59.26	49.26	-32.65	-
4	0.845	0.18	18.91	-	19.09	-	56.00	46.00	-36.91	-
5	8.113	0.38	28.40	-	28.78	-	60.00	50.00	-31.22	-
6	24.348	0.70	46.12	-	46.82	-	60.00	50.00	-13.18	-

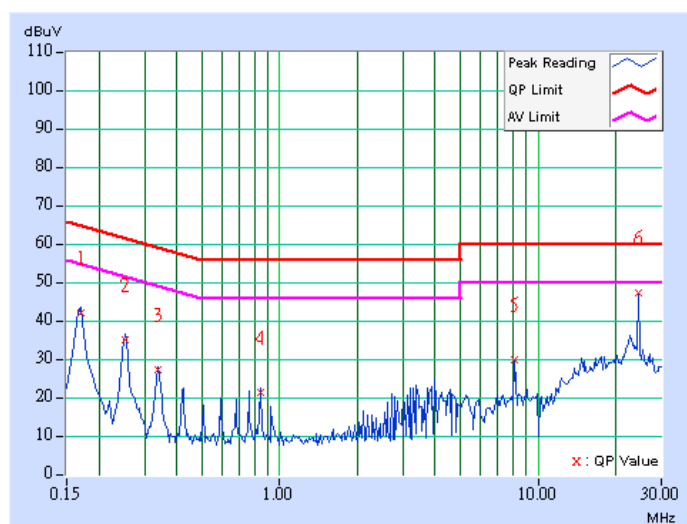
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	41.62	-	41.72	-	64.98	54.98	-23.26	-
2	0.252	0.10	34.45	-	34.55	-	61.71	51.71	-27.16	-
3	0.338	0.10	26.45	-	26.55	-	59.26	49.26	-32.71	-
4	0.845	0.11	20.72	-	20.83	-	56.00	46.00	-35.17	-
5	8.117	0.31	29.24	-	29.55	-	60.00	50.00	-30.45	-
6	24.348	0.79	46.78	-	47.57	-	60.00	50.00	-12.43	-

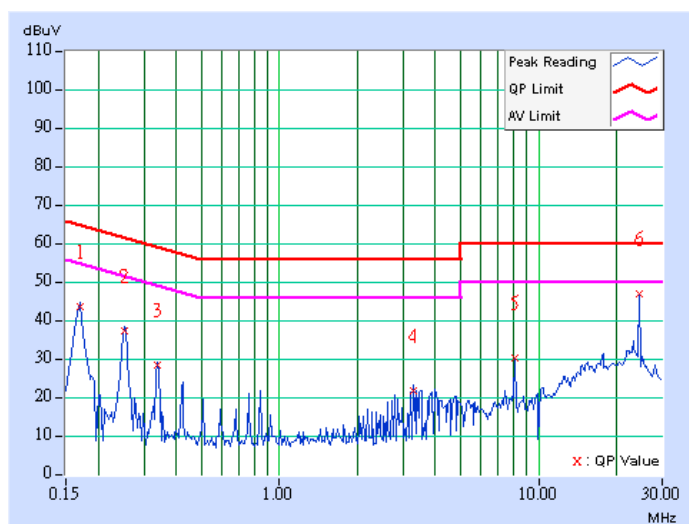
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	43.18	-	43.28	-	64.98	54.98	-21.70	-
2	0.252	0.10	36.70	-	36.80	-	61.71	51.71	-24.91	-
3	0.338	0.10	27.67	-	27.77	-	59.26	49.26	-31.49	-
4	3.293	0.26	21.11	-	21.37	-	56.00	46.00	-34.63	-
5	8.117	0.38	29.79	-	30.17	-	60.00	50.00	-29.83	-
6	24.348	0.70	46.34	-	47.04	-	60.00	50.00	-12.96	-

- 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.



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

BELOW 1GHz TEST:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Preamplifier	8449B	3008A01292	Aug. 06, 2007
HP Preamplifier	8449B	3008A01638	Sep. 17, 2007
SCHAFFNER TEST RECEIVER	SCR 3501	408	Dec. 24, 2007
CHASE BILOG Antenna	CBL6111D	21872	Aug. 01, 2007
EMCO Horn Antenna	3115	00028257	Sep. 11, 2007
EMCO Horn Antenna	3115	9312-4192	Apr. 19, 2008
ADT. Turn Table	TT100	0505	NA
ADT. Tower	AT100	0505	NA
Software	ADT_Radiated _V7.5.14	NA	NA
ADT RF Switches BOX	EM-H-01-1	1002	Aug. 23, 2007
TIMES RF cable	LMR-600	CABLE-ST5-01	Aug. 23, 2007

- 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 horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in ADT Open Site No. 5.
4. The VCCI Site Registration No. R-1039.
5. The Industry Canada Reference No. IC 3789A-5

ABOVE 1GHz TEST:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Dec. 29, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 01, 2007
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 04, 2008
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-405	Dec. 18, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 16, 2008
Preamplifier Agilent	8449B	3008A1960	Oct. 30, 2007
Preamplifier Agilent	8447D	2944A10631	Oct. 30, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	230128/4	Nov. 14, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	233233/4	Nov. 14, 2007
Software ADT.	ADT_Radiated_V7.6	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 4.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The IC Site Registration No. is IC3789B-4.

4.2.3 TEST PROCEDURES

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

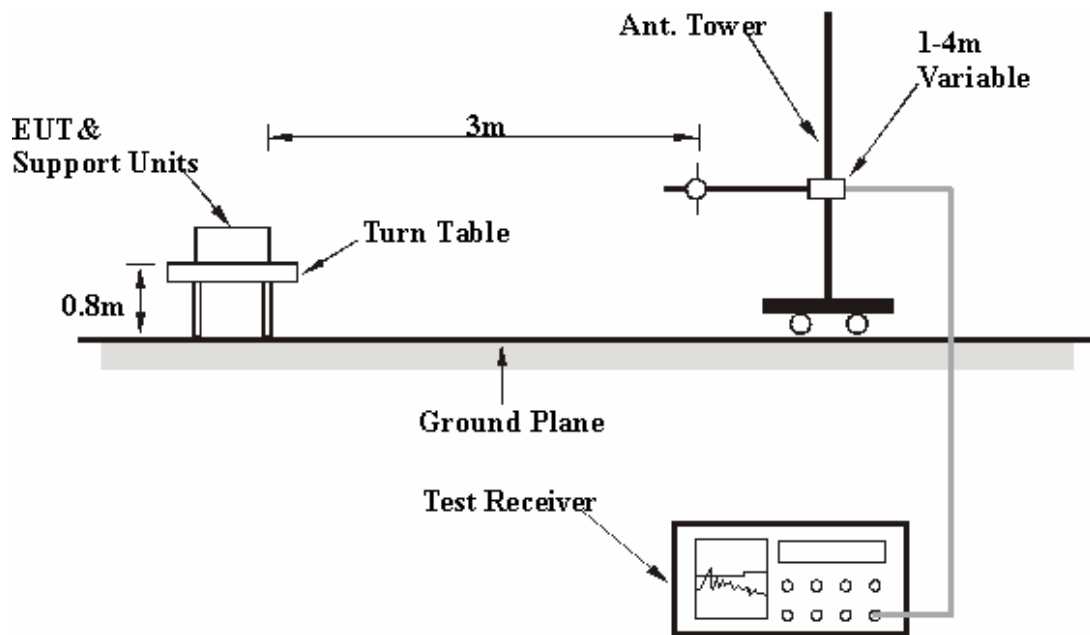
NOTE:

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS

RADIATED WORST-CASE DATA: BELOW 1GHz

FOR TEST MODE A: ADAPTER 1

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	30deg. C, 62%RH, 983hPa
TESTED BY	Rober Tsai	INPUT POWER (SYSTEM)	120Vac, 60 Hz

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	115.90	36.87 QP	43.50	-6.63	1.69 H	293	24.82	12.05
2	165.00	36.76 QP	43.50	-6.74	1.54 H	239	25.50	11.26
3	250.02	44.98 QP	46.00	-1.02	1.28 H	301	31.25	13.73
4	375.02	44.93 QP	46.00	-1.07	1.00 H	69	27.30	17.63
5	500.02	40.45 QP	46.00	-5.55	1.45 H	162	19.56	20.89
6	528.03	35.84 QP	46.00	-10.16	1.20 H	126	13.58	22.26
7	600.01	35.96 QP	46.00	-10.04	1.21 H	194	13.05	22.91
8	625.12	37.99 QP	46.00	-8.01	1.00 H	224	14.61	23.38
9	750.01	35.93 QP	46.00	-10.07	2.04 H	67	9.50	26.43
10	800.10	33.31 QP	46.00	-12.69	1.14 H	202	7.09	26.22
11	900.02	43.27 QP	46.00	-2.73	1.21 H	288	15.26	28.01

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	30deg. C, 62%RH, 983hPa
TESTED BY	Rober Tsai	INPUT POWER (SYSTEM)	120Vac, 60 Hz

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	47.81	38.97 QP	40.00	-1.03	1.29 V	69	29.19	9.78
2	54.80	37.30 QP	40.00	-2.70	1.00 V	198	30.05	7.25
3	66.77	33.99 QP	40.00	-6.01	1.00 V	236	27.53	6.46
4	78.17	35.13 QP	40.00	-4.87	1.00 V	77	27.29	7.84
5	86.14	35.76 QP	40.00	-4.24	1.88 V	150	26.74	9.02
6	113.12	34.32 QP	43.50	-9.18	1.39 V	250	22.48	11.84
7	125.01	37.74 QP	43.50	-5.76	1.21 V	173	25.30	12.44
8	151.87	33.99 QP	43.50	-9.51	1.99 V	270	21.88	12.11
9	165.35	40.07 QP	43.50	-3.43	1.00 V	215	28.84	11.23
10	250.03	44.33 QP	46.00	-1.67	1.00 V	234	30.60	13.73
11	375.20	42.43 QP	46.00	-3.57	2.24 V	128	24.80	17.63
12	500.02	40.71 QP	46.00	-5.29	1.15 V	107	19.82	20.89
13	528.09	40.00 QP	46.00	-6.00	1.05 V	75	17.74	22.26
14	625.21	38.96 QP	46.00	-7.04	1.99 V	319	15.58	23.38
15	750.00	37.50 QP	46.00	-8.50	1.20 V	319	11.07	26.43
16	900.01	41.27 QP	46.00	-4.73	1.00 V	316	13.26	28.01

- 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.

FOR TEST MODE B: ADAPTER 2

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	30deg. C, 62%RH, 983hPa
TESTED BY	Rober Tsai	INPUT POWER (SYSTEM)	120Vac, 60 Hz

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	112.90	34.62 QP	43.50	-8.88	1.75 H	264	22.80	11.82
2	125.10	33.90 QP	43.50	-9.60	1.56 H	298	21.46	12.44
3	144.90	36.56 QP	43.50	-6.94	1.22 H	207	24.12	12.44
4	165.30	35.19 QP	43.50	-8.31	1.27 H	130	23.96	11.23
5	250.10	40.93 QP	46.00	-5.07	1.30 H	305	27.19	13.74
6	375.30	42.18 QP	46.00	-3.82	1.46 H	226	24.54	17.64
7	500.70	38.80 QP	46.00	-7.20	1.48 H	146	17.88	20.92
8	625.70	41.02 QP	46.00	-4.98	1.33 H	249	17.63	23.39
9	732.30	40.28 QP	46.00	-5.72	1.00 H	285	14.54	25.74
10	801.20	35.52 QP	46.00	-10.48	1.09 H	348	9.26	26.26

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	30deg. C, 62%RH, 983hPa
TESTED BY	Rober Tsai	INPUT POWER (SYSTEM)	120Vac, 60 Hz

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	47.77	38.93 QP	40.00	-1.07	1.00 V	128	29.12	9.81
2	59.10	36.89 QP	40.00	-3.11	1.10 V	315	30.76	6.13
3	78.30	35.37 QP	40.00	-4.63	1.15 V	13	27.51	7.86
4	125.10	41.28 QP	43.50	-2.22	1.00 V	144	28.84	12.44
5	144.30	36.66 QP	43.50	-6.84	1.32 V	137	24.19	12.47
6	165.30	37.27 QP	43.50	-6.23	1.26 V	76	26.04	11.23
7	249.70	44.92 QP	46.00	-1.08	1.00 V	94	31.22	13.70
8	375.30	44.91 QP	46.00	-1.09	1.63 V	289	27.27	17.64
9	500.70	40.18 QP	46.00	-5.82	1.33 V	297	19.26	20.92
10	528.90	41.17 QP	46.00	-4.83	1.53 V	281	18.87	22.30
11	625.70	39.08 QP	46.00	-6.92	1.44 V	79	15.69	23.39
12	731.50	43.39 QP	46.00	-2.61	1.36 V	102	17.68	25.71
13	901.00	38.32 QP	46.00	-7.68	1.24 V	258	10.28	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.

FOR TEST MODE C: ADAPTER 3

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	30deg. C, 62%RH, 983hPa
TESTED BY	Rober Tsai	INPUT POWER (SYSTEM)	120Vac, 60 Hz

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	125.10	32.52 QP	43.50	-10.98	1.25 H	254	20.08	12.44
2	165.30	35.37 QP	43.50	-8.13	1.16 H	167	24.14	11.23
3	250.10	42.78 QP	46.00	-3.22	1.40 H	205	29.04	13.74
4	375.70	42.07 QP	46.00	-3.93	1.51 H	126	24.42	17.65
5	500.70	36.93 QP	46.00	-9.07	1.27 H	254	16.01	20.92
6	564.70	40.73 QP	46.00	-5.27	1.36 H	122	17.52	23.21
7	600.50	39.22 QP	46.00	-6.78	1.44 H	31	16.30	22.92
8	625.70	37.35 QP	46.00	-8.65	1.17 H	115	13.96	23.39
9	730.00	37.86 QP	46.00	-8.14	1.50 H	281	12.21	25.65
10	751.00	37.94 QP	46.00	-8.06	1.00 H	82	11.51	26.43
11	901.00	37.52 QP	46.00	-8.48	1.34 H	149	9.48	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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	30deg. C, 62%RH, 983hPa
TESTED BY	Rober Tsai	INPUT POWER (SYSTEM)	120Vac, 60 Hz

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	50.47	38.98 QP	40.00	-1.02	1.00 V	259	30.59	8.39
2	59.55	35.81 QP	40.00	-4.19	1.00 V	132	29.80	6.01
3	78.00	35.14 QP	40.00	-4.86	1.00 V	205	27.32	7.82
4	125.10	39.73 QP	43.50	-3.77	1.00 V	133	27.29	12.44
5	133.30	40.39 QP	43.50	-3.11	1.00 V	19	27.82	12.57
6	165.30	38.39 QP	43.50	-5.11	1.00 V	222	27.16	11.23
7	250.10	44.95 QP	46.00	-1.05	1.05 V	58	31.21	13.74
8	375.30	44.98 QP	46.00	-1.02	1.00 V	112	27.34	17.64
9	500.70	41.49 QP	46.00	-4.51	1.21 V	293	20.57	20.92
10	528.90	39.67 QP	46.00	-6.33	1.44 V	250	17.37	22.30
11	625.70	36.75 QP	46.00	-9.25	1.36 V	132	13.36	23.39
12	731.50	40.53 QP	46.00	-5.47	1.18 V	153	14.82	25.71
13	751.00	35.90 QP	46.00	-10.10	1.09 V	22	9.47	26.43
14	901.00	40.92 QP	46.00	-5.08	1.28 V	237	12.88	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.

FOR TEST MODE D: POE

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	30deg. C, 62%RH, 983hPa
TESTED BY	Rober Tsai	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	116.20	37.43 QP	43.50	-6.07	1.53 H	156	25.36	12.07
2	125.10	38.54 QP	43.50	-4.96	1.12 H	246	26.10	12.44
3	165.30	35.01 QP	43.50	-8.49	1.24 H	294	23.78	11.23
4	192.80	35.11 QP	43.50	-8.39	1.34 H	20	25.62	9.49
5	250.10	44.96 QP	46.00	-1.04	1.00 H	272	31.22	13.74
6	375.30	42.80 QP	46.00	-3.20	1.00 H	211	25.16	17.64
7	500.70	39.37 QP	46.00	-6.63	1.02 H	190	18.45	20.92
8	626.50	38.53 QP	46.00	-7.47	1.28 H	196	15.13	23.40
9	731.50	40.33 QP	46.00	-5.67	1.00 H	279	14.62	25.71
10	860.50	39.12 QP	46.00	-6.88	1.24 H	331	11.28	27.84
11	901.00	39.93 QP	46.00	-6.07	1.31 H	355	11.89	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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	30deg. C, 62%RH, 983hPa
TESTED BY	Rober Tsai	INPUT POWER (SYSTEM)	120Vac, 60 Hz

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	48.30	36.10 QP	40.00	-3.90	1.00 V	268	26.60	9.50
2	57.00	36.62 QP	40.00	-3.38	1.00 V	337	29.94	6.68
3	84.75	36.46 QP	40.00	-3.54	1.00 V	207	27.65	8.81
4	125.10	36.86 QP	43.50	-6.64	1.00 V	127	24.42	12.44
5	147.70	36.27 QP	43.50	-7.23	1.00 V	276	23.96	12.31
6	165.30	36.68 QP	43.50	-6.82	1.00 V	197	25.45	11.23
7	183.60	32.35 QP	43.50	-11.15	1.00 V	0	22.59	9.76
8	250.10	44.92 QP	46.00	-1.08	1.00 V	149	31.18	13.74
9	375.30	41.45 QP	46.00	-4.55	1.29 V	165	23.81	17.64
10	529.00	41.49 QP	46.00	-4.51	1.00 V	244	19.18	22.31
11	626.50	36.08 QP	46.00	-9.92	1.14 V	334	12.68	23.40
12	692.50	38.13 QP	46.00	-7.87	1.18 V	269	13.74	24.39
13	731.50	44.06 QP	46.00	-1.94	1.21 V	323	18.35	25.71
14	901.00	38.33 QP	46.00	-7.67	1.00 V	190	10.29	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.

ABOVE 1GHz WORST-CASE DATA
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	24deg. C, 66%RH, 983hPa
TESTED BY	Morgan Chen	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1608.00	58.19 PK	74.00	-15.81	1.00 H	298	28.18	30.01
2	1608.00	48.57 AV	54.00	-5.43	1.00 H	298	18.56	30.01
3	2390.00	58.56 PK	74.00	-15.44	1.11 H	354	26.31	32.25
4	2390.00	48.25 AV	54.00	-5.75	1.11 H	354	16.00	32.25
5	*2412.00	99.25 PK			1.08 H	310	66.91	32.34
6	*2412.00	95.01 AV			1.08 H	310	62.67	32.34
7	3216.00	49.25 PK	74.00	-24.75	1.00 H	325	14.73	34.52
8	3216.00	40.83 AV	54.00	-13.17	1.00 H	325	6.31	34.52
9	4824.00	47.38 PK	74.00	-26.62	1.19 H	352	8.78	38.60
10	4824.00	43.25 AV	54.00	-10.75	1.19 H	352	4.65	38.60
11	6432.00	56.89 PK	79.25	-22.36	1.00 H	253	14.33	42.56
12	6432.00	52.95 AV	75.01	-22.06	1.00 H	253	10.39	42.56

- 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 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	24deg. C, 66%RH, 983hPa
TESTED BY	Morgan Chen	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1608.00	59.38 PK	74.00	-14.62	1.20 V	76	29.37	30.01
2	1608.00	49.62 AV	54.00	-4.38	1.20 V	76	19.61	30.01
3	2390.00	59.60 PK	74.00	-14.40	1.07 V	175	27.35	32.25
4	2390.00	49.83 AV	54.00	-4.17	1.07 V	175	17.58	32.25
5	*2412.00	108.45 PK			1.09 V	168	76.11	32.34
6	*2412.00	104.35 AV			1.09 V	168	72.01	32.34
7	3216.00	50.30 PK	74.00	-23.70	1.13 V	184	15.78	34.52
8	3216.00	44.22 AV	54.00	-9.78	1.13 V	184	9.70	34.52
9	4824.00	55.68 PK	74.00	-18.32	1.00 V	181	17.08	38.60
10	4824.00	51.84 AV	54.00	-2.16	1.00 V	181	13.24	38.60
11	6432.00	59.25 PK	88.45	-29.20	1.25 V	159	16.69	42.56
12	6432.00	55.10 AV	84.35	-29.25	1.25 V	159	12.54	42.56

- 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	24deg. C, 66%RH, 983hPa
TESTED BY	Morgan Chen	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1624.00	58.02 PK	74.00	-15.98	1.00 H	253	27.98	30.04
2	1624.00	48.35 AV	54.00	-5.65	1.00 H	253	18.31	30.04
3	*2437.00	99.35 PK			1.05 H	298	66.92	32.43
4	*2437.00	95.11 AV			1.05 H	298	62.68	32.43
5	3248.00	49.05 PK	74.00	-24.95	1.05 H	341	14.50	34.55
6	3248.00	40.35 AV	54.00	-13.65	1.05 H	341	5.80	34.55
7	4874.00	47.55 PK	74.00	-26.45	1.22 H	320	8.81	38.74
8	4874.00	43.11 AV	54.00	-10.89	1.22 H	320	4.37	38.74
9	6496.00	56.55 PK	79.35	-22.80	1.00 H	275	13.70	42.85
10	6496.00	52.75 AV	75.11	-22.36	1.00 H	275	9.90	42.85

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1624.00	59.15 PK	74.00	-14.85	1.18 V	57	29.11	30.04
2	1624.00	48.92 AV	54.00	-5.08	1.18 V	57	18.88	30.04
3	*2437.00	108.64 PK			1.00 V	23	76.21	32.43
4	*2437.00	104.45 AV			1.00 V	23	72.02	32.43
5	3248.00	50.11 PK	74.00	-23.89	1.08 V	171	15.56	34.55
6	3248.00	44.08 AV	54.00	-9.92	1.08 V	171	9.53	34.55
7	4874.00	55.79 PK	74.00	-18.21	1.00 V	190	17.05	38.74
8	4874.00	51.90 AV	54.00	-2.10	1.00 V	190	13.16	38.74
9	6496.00	59.08 PK	88.64	-29.56	1.18 V	325	16.23	42.85
10	6496.00	54.89 AV	84.45	-29.56	1.18 V	325	12.04	42.85

- 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	24deg. C, 66%RH, 983hPa
TESTED BY	Morgan Chen	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1641.00	57.98 PK	74.00	-16.02	1.08 H	305	27.91	30.07
2	1641.00	48.22 AV	54.00	-5.78	1.08 H	305	18.15	30.07
3	*2462.00	99.56 PK			1.13 H	325	67.03	32.53
4	*2462.00	95.78 AV			1.13 H	325	63.25	32.53
5	2483.50	58.15 PK	74.00	-15.85	1.08 H	345	25.54	32.61
6	2483.50	48.61 AV	54.00	-5.39	1.08 H	345	16.00	32.61
7	2499.00	59.05 PK	74.00	-14.95	1.10 H	305	26.38	32.67
8	2499.00	48.98 AV	54.00	-5.02	1.10 H	305	16.31	32.67
9	3282.00	49.11 PK	74.00	-24.89	1.13 H	55	14.53	34.58
10	3282.00	40.53 AV	54.00	-13.47	1.13 H	55	5.95	34.58
11	4924.00	48.35 PK	74.00	-25.65	1.05 H	346	9.48	38.87
12	4924.00	44.15 AV	54.00	-9.85	1.05 H	346	5.28	38.87
13	6565.00	56.71 PK	79.56	-22.85	1.04 H	263	13.66	43.05
14	6565.00	52.81 AV	75.78	-22.97	1.04 H	263	9.76	43.05

- 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	24deg. C, 66%RH, 983hPa
TESTED BY	Morgan Chen	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1641.00	57.62 PK	74.00	-16.38	1.00 V	302	27.55	30.07
2	1641.00	48.05 AV	54.00	-5.95	1.00 V	302	17.98	30.07
3	*2462.00	108.42 PK			1.00 V	210	75.89	32.53
4	*2462.00	104.18 AV			1.00 V	210	71.65	32.53
5	2483.50	57.72 PK	74.00	-16.28	1.00 V	345	25.11	32.61
6	2483.50	48.29 AV	54.00	-5.71	1.00 V	345	15.68	32.61
7	2499.00	58.35 PK	74.00	-15.65	1.00 V	256	25.68	32.67
8	2499.00	48.56 AV	54.00	-5.44	1.00 V	256	15.89	32.67
9	3282.00	48.98 PK	74.00	-25.02	1.08 V	322	14.40	34.58
10	3282.00	40.01 AV	54.00	-13.99	1.08 V	322	5.43	34.58
11	4924.00	55.35 PK	74.00	-18.65	1.15 V	305	16.48	38.87
12	4924.00	49.02 AV	54.00	-4.98	1.15 V	305	10.15	38.87
13	6565.00	57.20 PK	88.42	-31.22	1.00 V	265	14.15	43.05
14	6565.00	53.06 AV	84.18	-31.12	1.00 V	265	10.01	43.05

- 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	24deg. C, 66%RH, 983hPa
TESTED BY	Morgan Chen	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1608.00	58.05 PK	74.00	-15.95	1.00 H	305	28.04	30.01
2	1608.00	48.37 AV	54.00	-5.63	1.00 H	305	18.36	30.01
3	2390.00	56.35 PK	74.00	-17.65	1.03 H	325	24.10	32.25
4	2390.00	45.28 AV	54.00	-8.72	1.03 H	325	13.03	32.25
5	*2412.00	99.45 PK			1.08 H	122	67.11	32.34
6	*2412.00	89.37 AV			1.08 H	122	57.03	32.34
7	3216.00	49.35 PK	74.00	-24.65	1.08 H	301	14.83	34.52
8	3216.00	43.21 AV	54.00	-10.79	1.08 H	301	8.69	34.52
9	4824.00	46.98 PK	74.00	-27.02	1.08 H	315	8.38	38.60
10	4824.00	33.22 AV	54.00	-20.78	1.08 H	315	-5.38	38.60
11	6432.00	58.05 PK	79.45	-21.40	1.05 H	305	15.49	42.56
12	6432.00	53.89 AV	69.37	-15.48	1.05 H	305	11.33	42.56

- 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 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24deg. C, 66%RH, 983hPa
TESTED BY	Morgan Chen	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1608.00	59.18 PK	74.00	-14.82	1.15 V	56	29.17	30.01
2	1608.00	49.43 AV	54.00	-4.57	1.15 V	56	19.42	30.01
3	2390.00	72.55 PK	74.00	-1.45	1.05 V	308	40.30	32.25
4	2390.00	52.56 AV	54.00	-1.44	1.05 V	308	20.31	32.25
5	*2412.00	109.39 PK			1.08 V	305	77.05	32.34
6	*2412.00	99.29 AV			1.08 V	305	66.95	32.34
7	3216.00	50.15 PK	74.00	-23.85	1.06 V	356	15.63	34.52
8	3216.00	44.08 AV	54.00	-9.92	1.06 V	356	9.56	34.52
9	4824.00	53.58 PK	74.00	-20.42	1.05 V	309	14.98	38.60
10	4824.00	43.42 AV	54.00	-10.58	1.05 V	309	4.82	38.60
11	6432.00	59.15 PK	89.39	-30.24	1.09 V	315	16.59	42.56
12	6432.00	55.02 AV	79.29	-24.27	1.09 V	315	12.46	42.56

- 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	24deg. C, 66%RH, 983hPa
TESTED BY	Morgan Chen	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1624.00	57.89 PK	74.00	-16.11	1.10 H	315	27.85	30.04
2	1624.00	47.75 AV	54.00	-6.25	1.10 H	315	17.71	30.04
3	*2437.00	100.38 PK			1.08 H	305	67.95	32.43
4	*2437.00	90.45 AV			1.08 H	305	58.02	32.43
5	3248.00	49.15 PK	74.00	-24.85	1.02 H	332	14.60	34.55
6	3248.00	43.02 AV	54.00	-10.98	1.02 H	332	8.47	34.55
7	4874.00	46.55 PK	74.00	-27.45	1.08 H	315	7.81	38.74
8	4874.00	34.85 AV	54.00	-19.15	1.08 H	315	-3.89	38.74
9	6496.00	58.02 PK	80.38	-22.36	1.05 H	344	15.17	42.85
10	6496.00	52.98 AV	70.45	-17.47	1.05 H	344	10.13	42.85

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1624.00	59.08 PK	74.00	-14.92	1.21 V	55	29.04	30.04
2	1624.00	48.81 AV	54.00	-5.19	1.21 V	55	18.77	30.04
3	*2437.00	110.45 PK			1.11 V	321	78.02	32.43
4	*2437.00	100.34 AV			1.11 V	321	67.91	32.43
5	3248.00	50.55 PK	74.00	-23.45	1.00 V	174	16.00	34.55
6	3248.00	44.11 AV	54.00	-9.89	1.00 V	174	9.56	34.55
7	4874.00	53.68 PK	74.00	-20.32	1.08 V	305	14.94	38.74
8	4874.00	43.51 AV	54.00	-10.49	1.08 V	305	4.77	38.74
9	6496.00	59.11 PK	90.45	-31.34	1.13 V	315	16.26	42.85
10	6496.00	54.91 AV	80.34	-25.43	1.13 V	315	12.06	42.85

- 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	24deg. C, 66%RH, 983hPa
TESTED BY	Morgan Chen	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1641.00	58.02 PK	74.00	-15.98	1.00 H	302	27.95	30.07
2	1641.00	48.48 AV	54.00	-5.52	1.00 H	302	18.41	30.07
3	*2462.00	99.58 PK			1.13 H	22	67.05	32.53
4	*2462.00	89.67 AV			1.13 H	22	57.14	32.53
5	2483.50	56.85 PK	74.00	-17.15	1.05 H	355	24.24	32.61
6	2483.50	45.71 AV	54.00	-8.29	1.05 H	355	13.10	32.61
7	3282.00	49.38 PK	74.00	-24.62	1.03 H	320	14.80	34.58
8	3282.00	40.91 AV	54.00	-13.09	1.03 H	320	6.33	34.58
9	4924.00	47.58 PK	74.00	-26.42	1.05 H	11	8.71	38.87
10	4924.00	34.01 AV	54.00	-19.99	1.05 H	11	-4.86	38.87
11	6565.00	57.01 PK	79.58	-22.57	1.05 H	351	13.96	43.05
12	6565.00	52.33 AV	69.67	-17.34	1.05 H	351	9.28	43.05

- 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	24deg. C, 66%RH, 983hPa
TESTED BY	Morgan Chen	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1641.00	59.18 PK	74.00	-14.82	1.18 V	59	29.11	30.07
2	1641.00	49.25 AV	54.00	-4.75	1.18 V	59	19.18	30.07
3	*2462.00	109.43 PK			1.05 V	344	76.90	32.53
4	*2462.00	99.38 AV			1.05 V	344	66.85	32.53
5	2483.50	72.05 PK	74.00	-1.95	1.00 V	329	39.44	32.61
6	2483.50	52.71 AV	54.00	-1.29	1.00 V	329	20.10	32.61
7	3282.00	50.55 PK	74.00	-23.45	1.08 V	166	15.97	34.58
8	3282.00	44.39 AV	54.00	-9.61	1.08 V	166	9.81	34.58
9	4924.00	53.22 PK	74.00	-20.78	1.08 V	352	14.35	38.87
10	4924.00	43.38 AV	54.00	-10.62	1.08 V	352	4.51	38.87
11	6565.00	59.89 PK	89.43	-29.54	1.09 V	151	16.84	43.05
12	6565.00	55.35 AV	79.38	-24.03	1.09 V	151	12.30	43.05

- 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	FSP 40	100040	Jun. 07, 2007

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

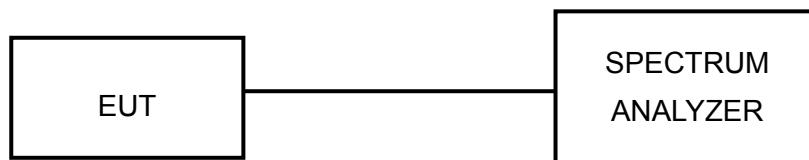
4.3.3 TEST PROCEDURE

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.

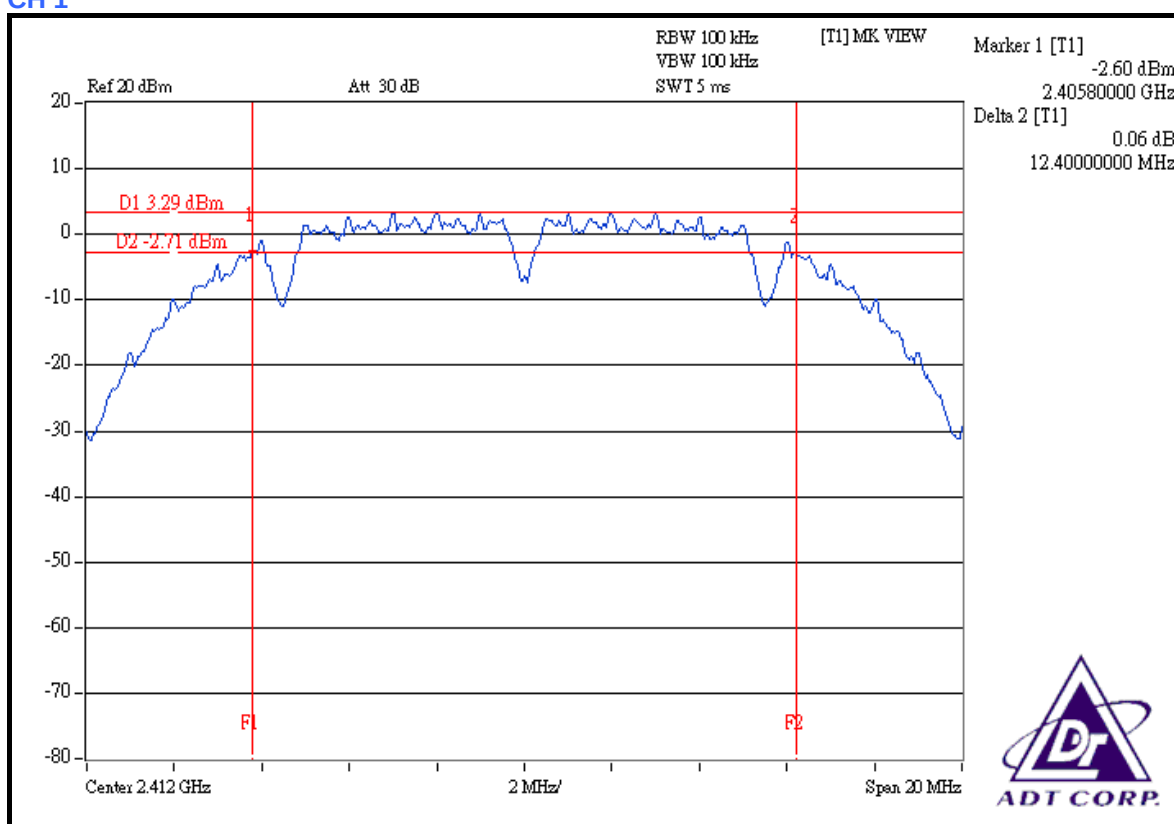
4.3.7 TEST RESULTS

802.11b DSSS MODULATION

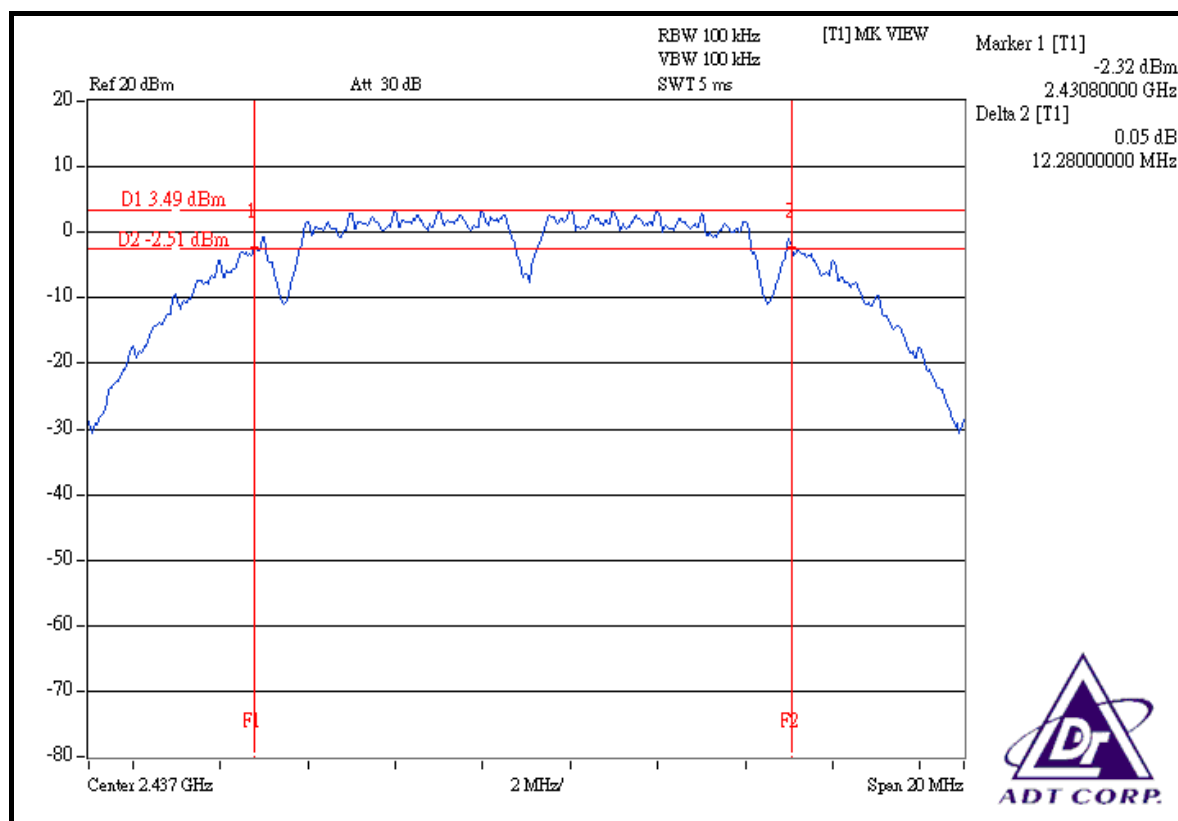
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.40	0.5	PASS
6	2437	12.28	0.5	PASS
11	2462	12.40	0.5	PASS

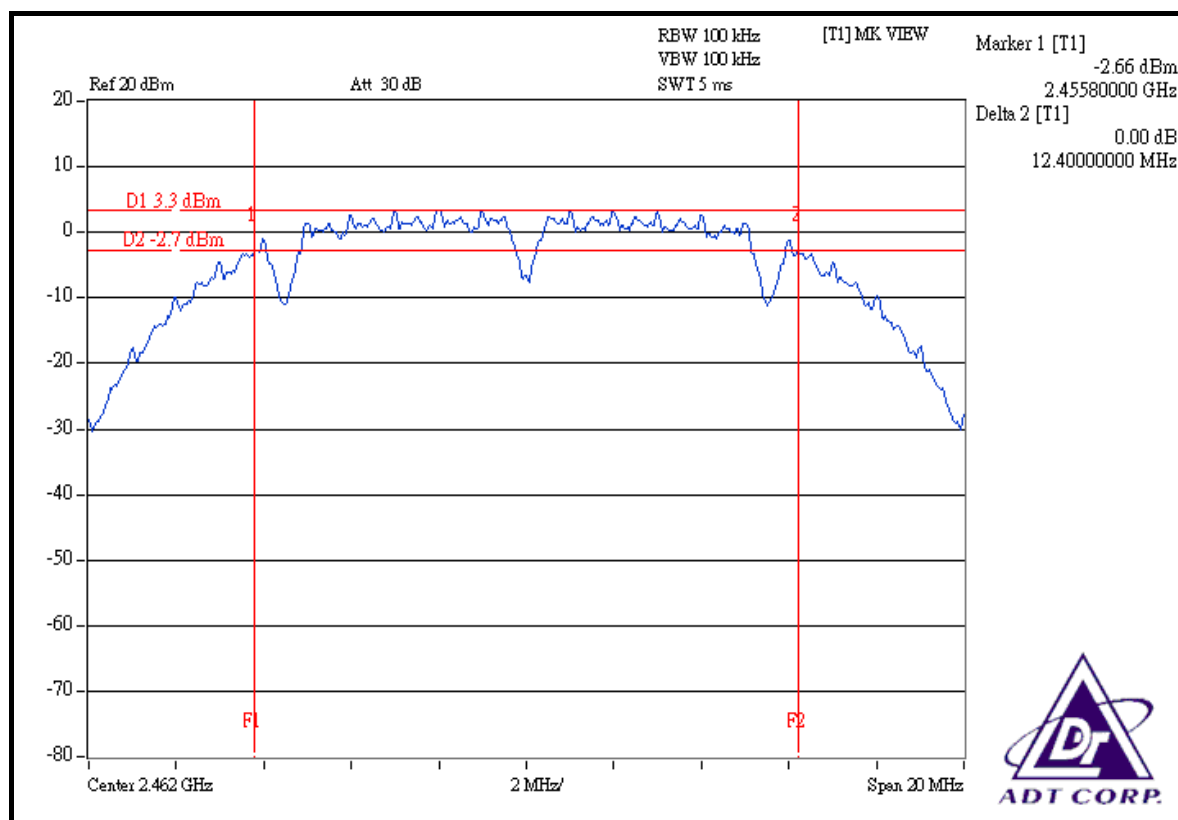
CH 1



CH 6



CH 11

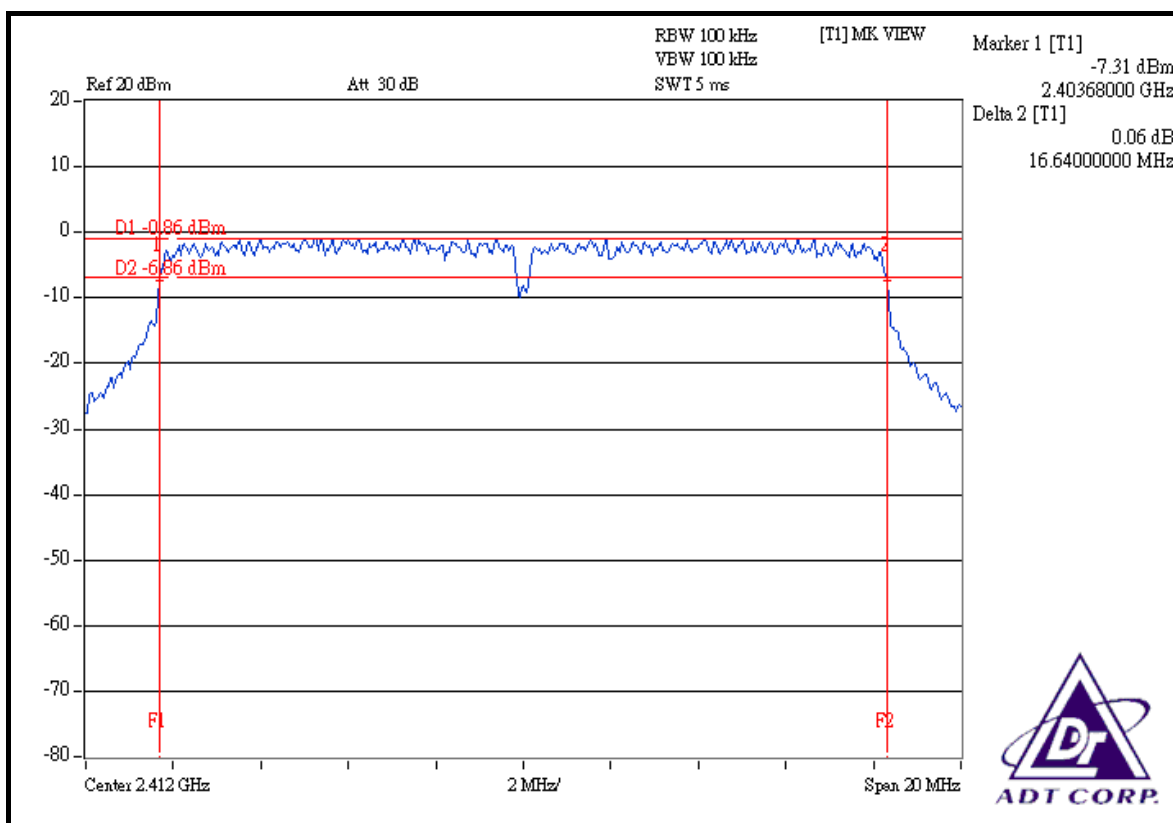


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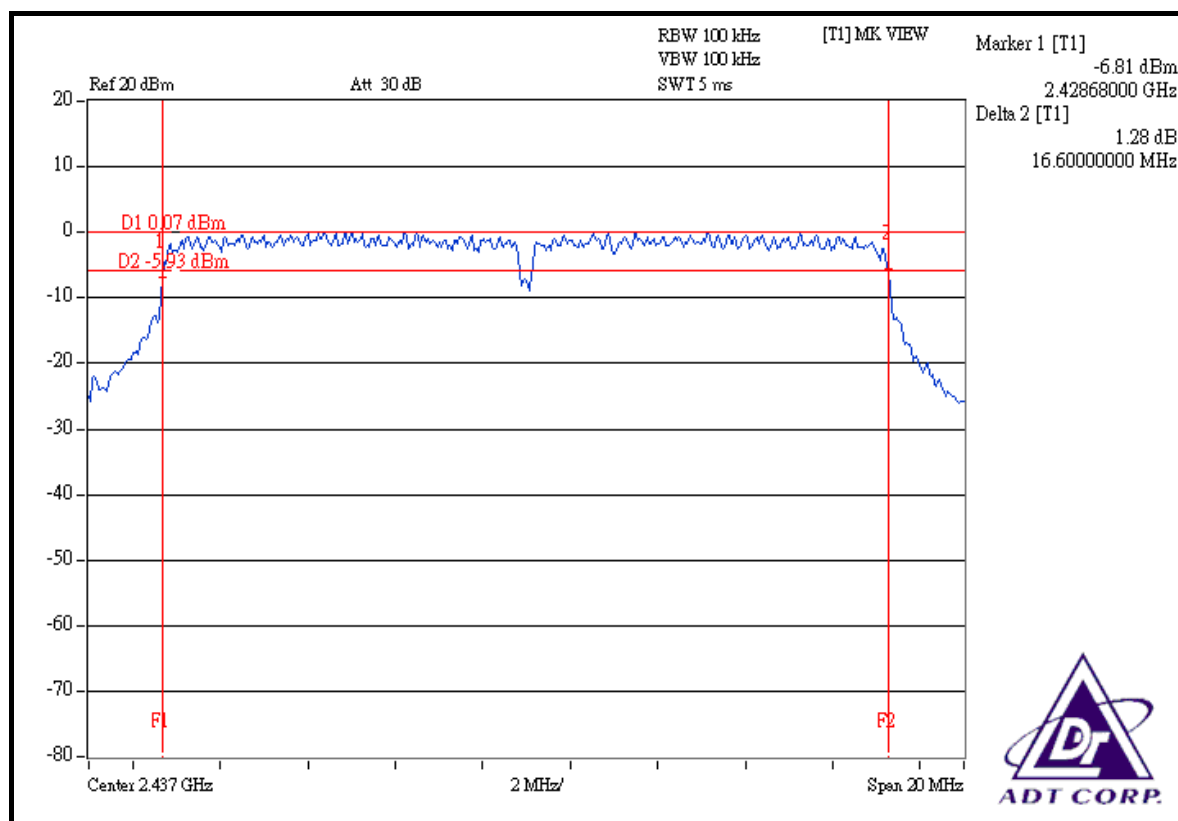
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.64	0.5	PASS
6	2437	16.60	0.5	PASS
11	2462	16.60	0.5	PASS

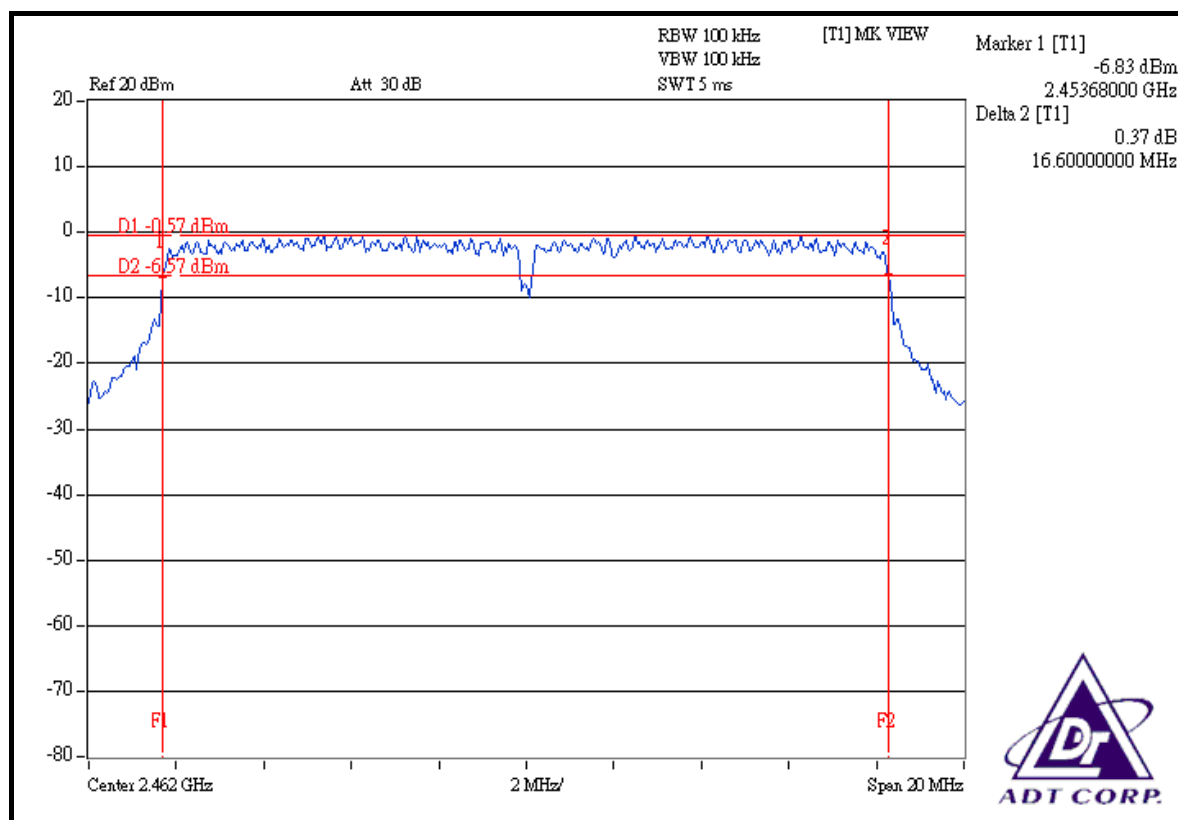
CH 1



CH 6



CH 11



4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100040	Jun. 07, 2007
R&S SIGNAL GENERATOR	SML03	102843	Aug. 31, 2007
TEKTRONIX OSCILLOSCOPE	TDS1012	C037299	Nov. 27, 2007
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	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	39.994	16.02	30	PASS
6	2437	39.902	16.01	30	PASS
11	2462	40.644	16.09	30	PASS

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MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	50.119	17.00	30	PASS
6	2437	64.121	18.07	30	PASS
11	2462	50.816	17.06	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 &	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 07, 2007

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

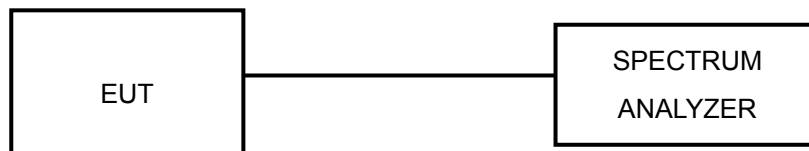
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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

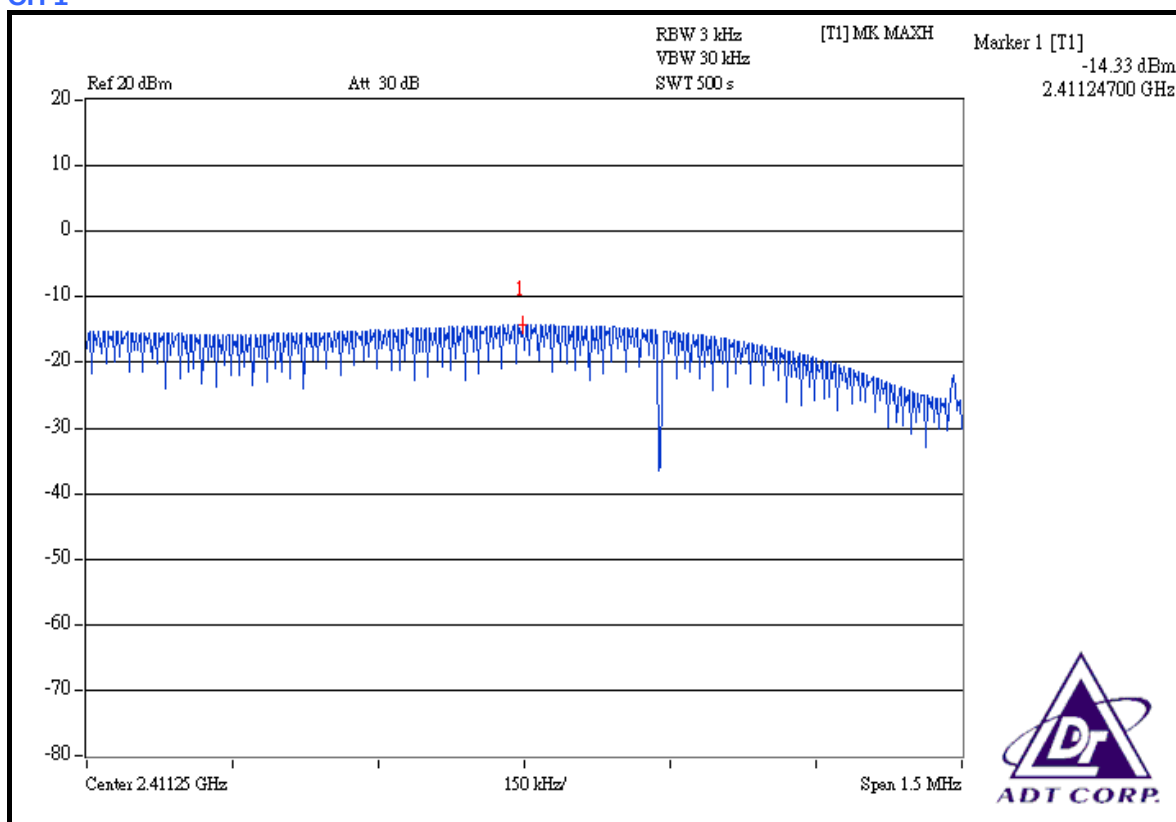
4.5.7 TEST RESULTS

802.11b DSSS MODULATION

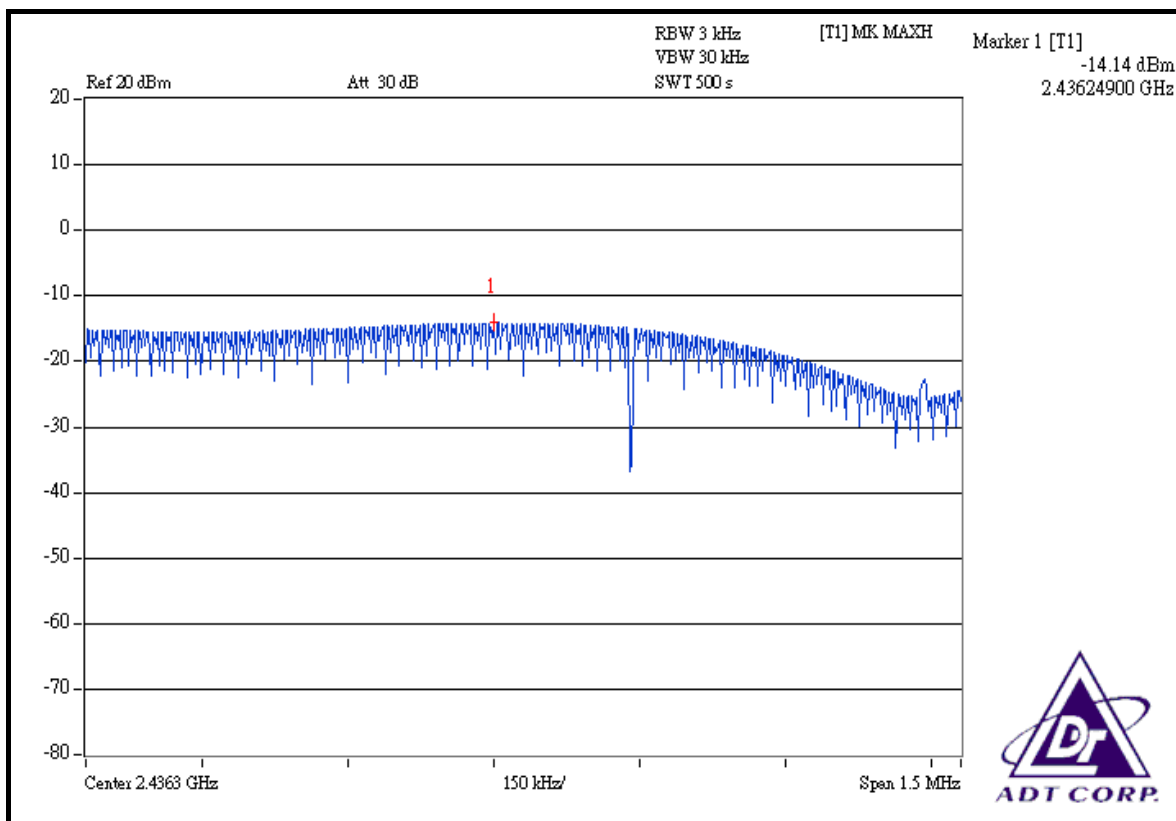
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.33	8	PASS
6	2437	-14.14	8	PASS
11	2462	-14.33	8	PASS

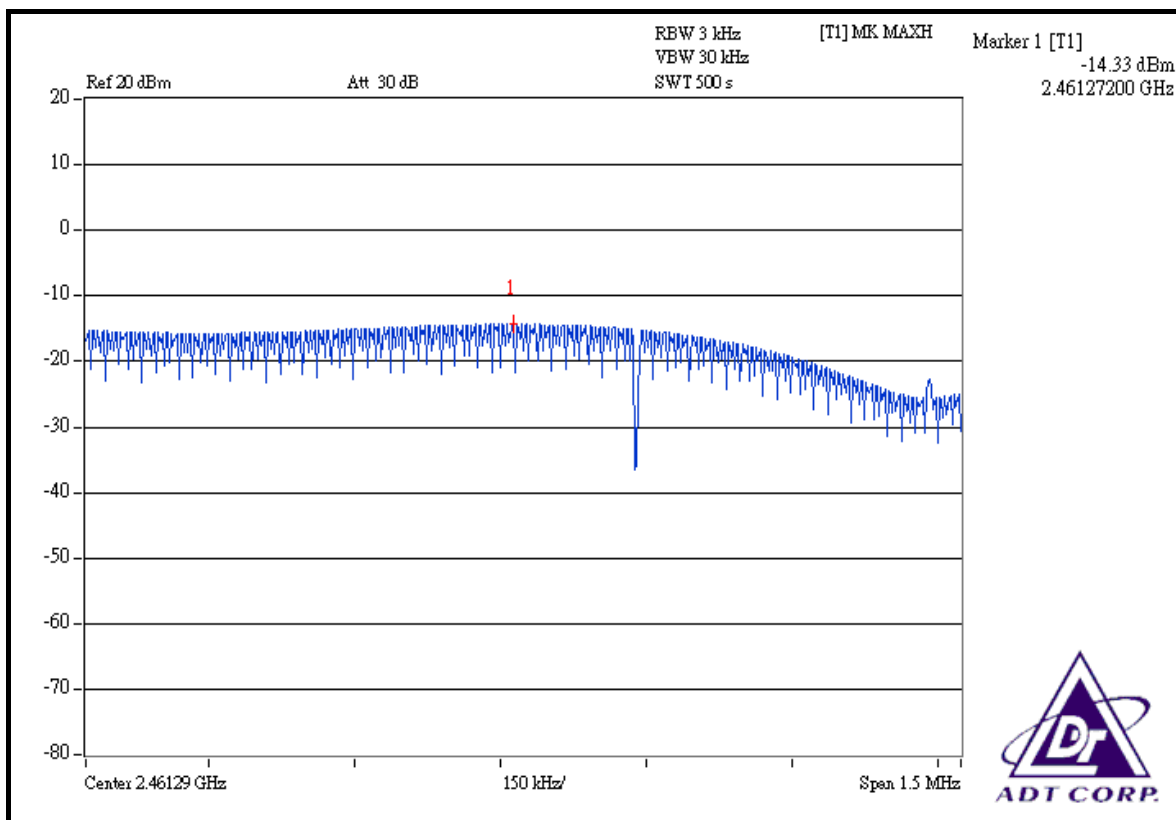
CH 1



CH 6



CH 11

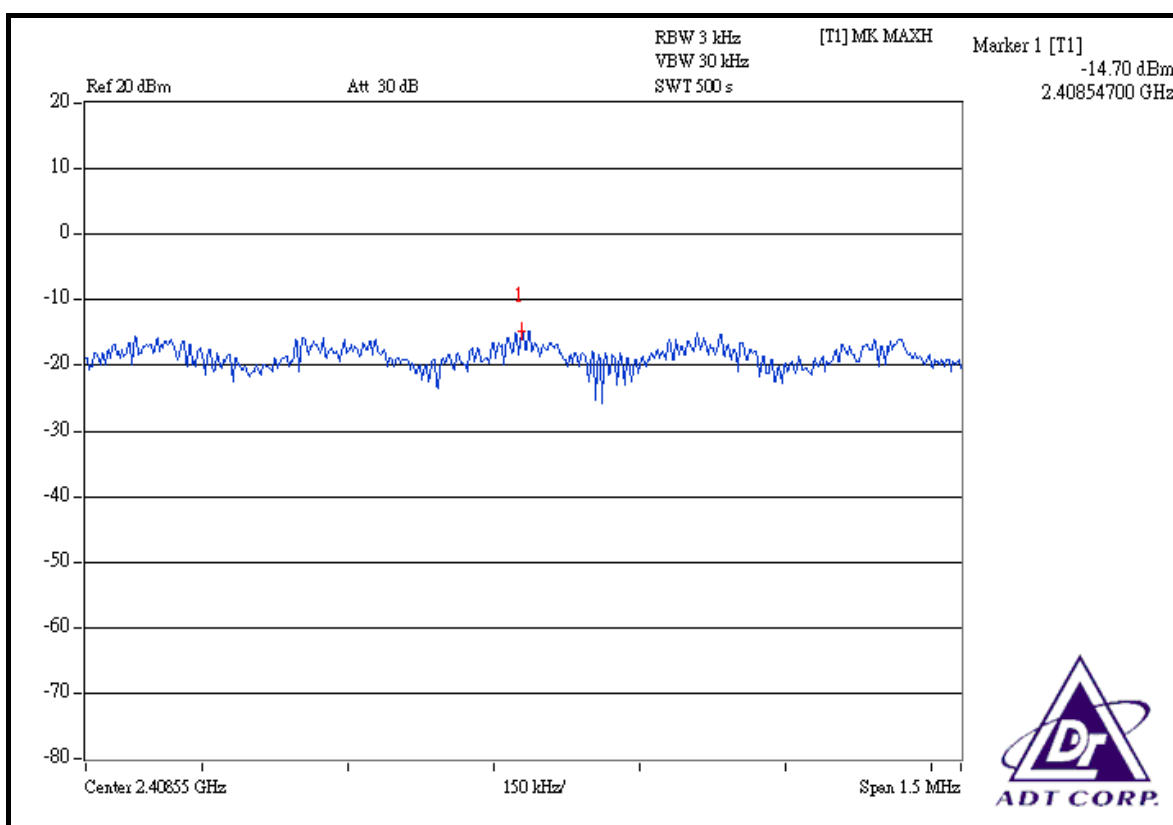


802.11g OFDM MODULATION

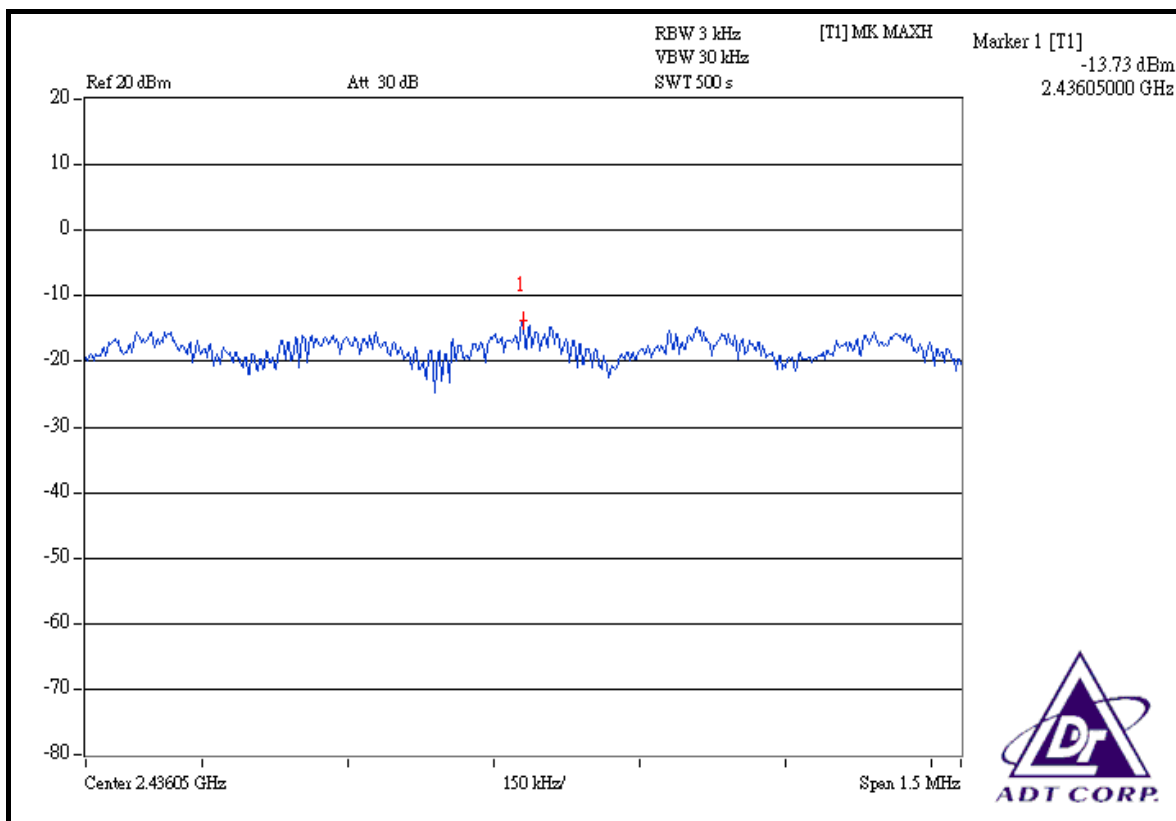
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.70	8	PASS
6	2437	-13.73	8	PASS
11	2462	-14.61	8	PASS

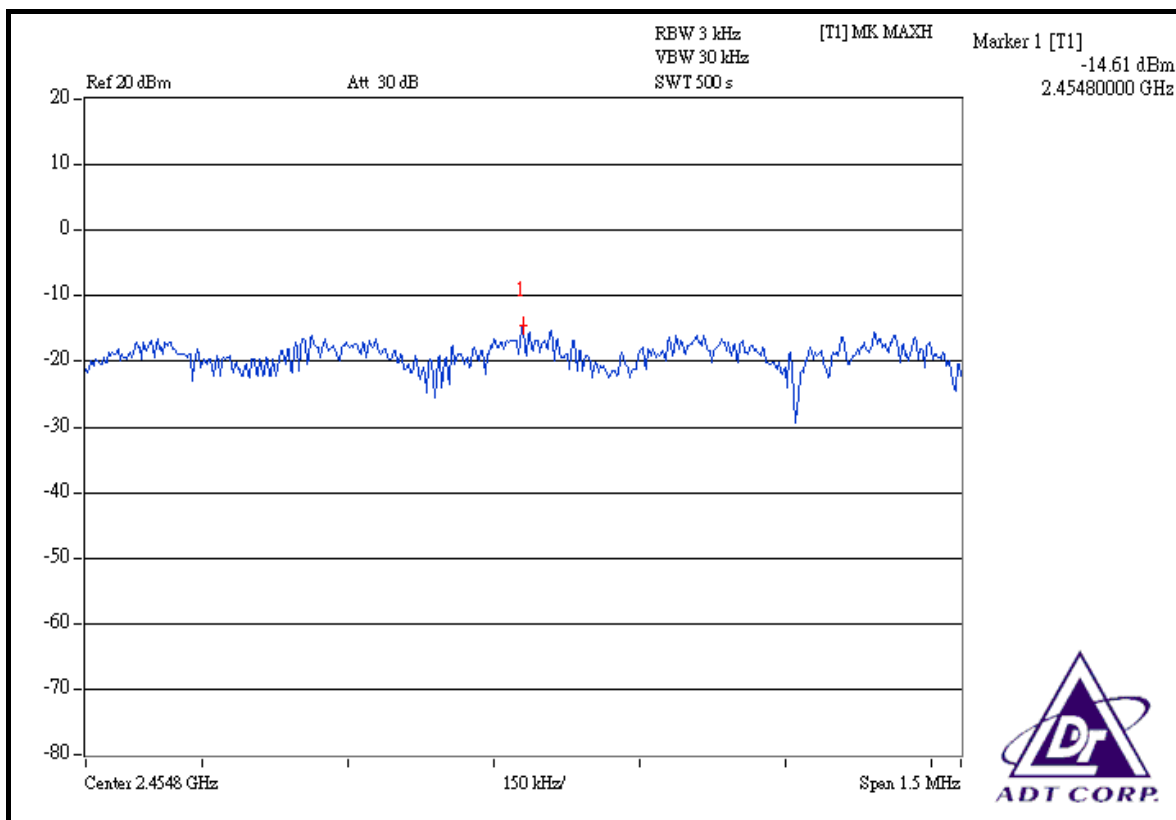
CH 1



CH 6



CH 11



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	FSP 40	100040	Jun. 07, 2007

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 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).

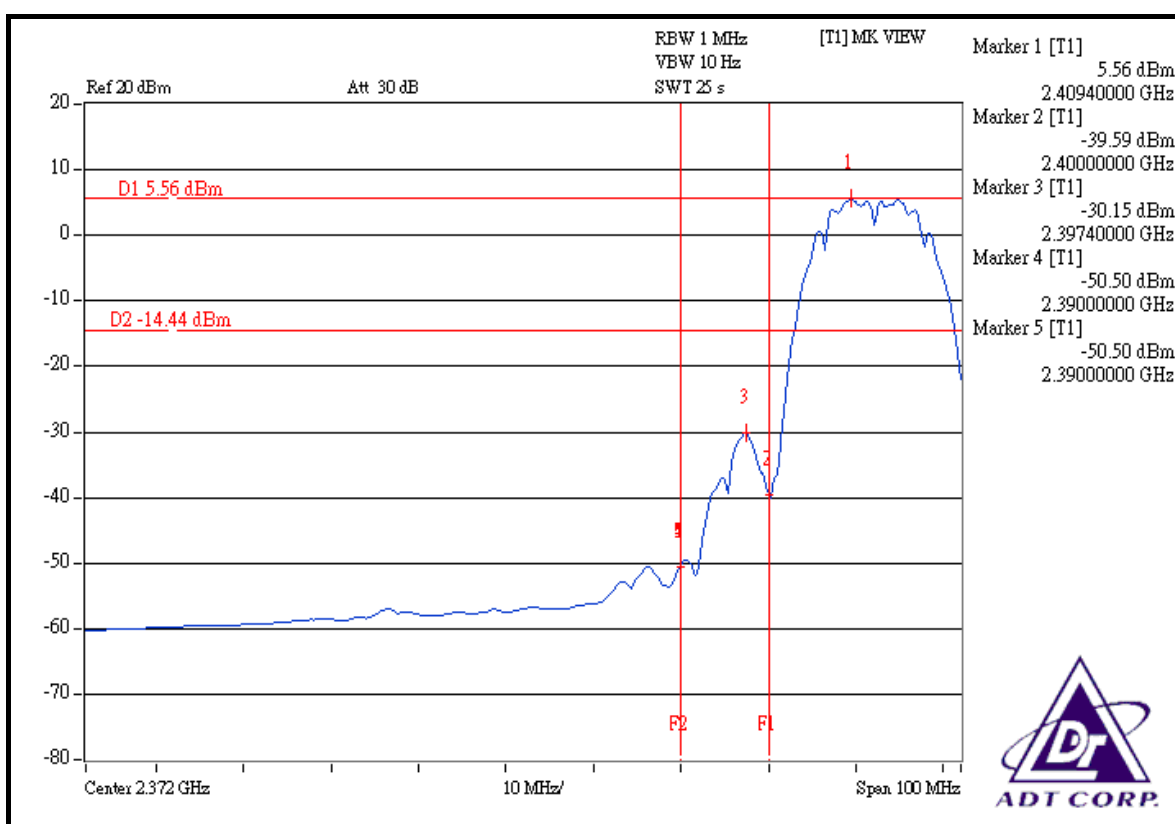
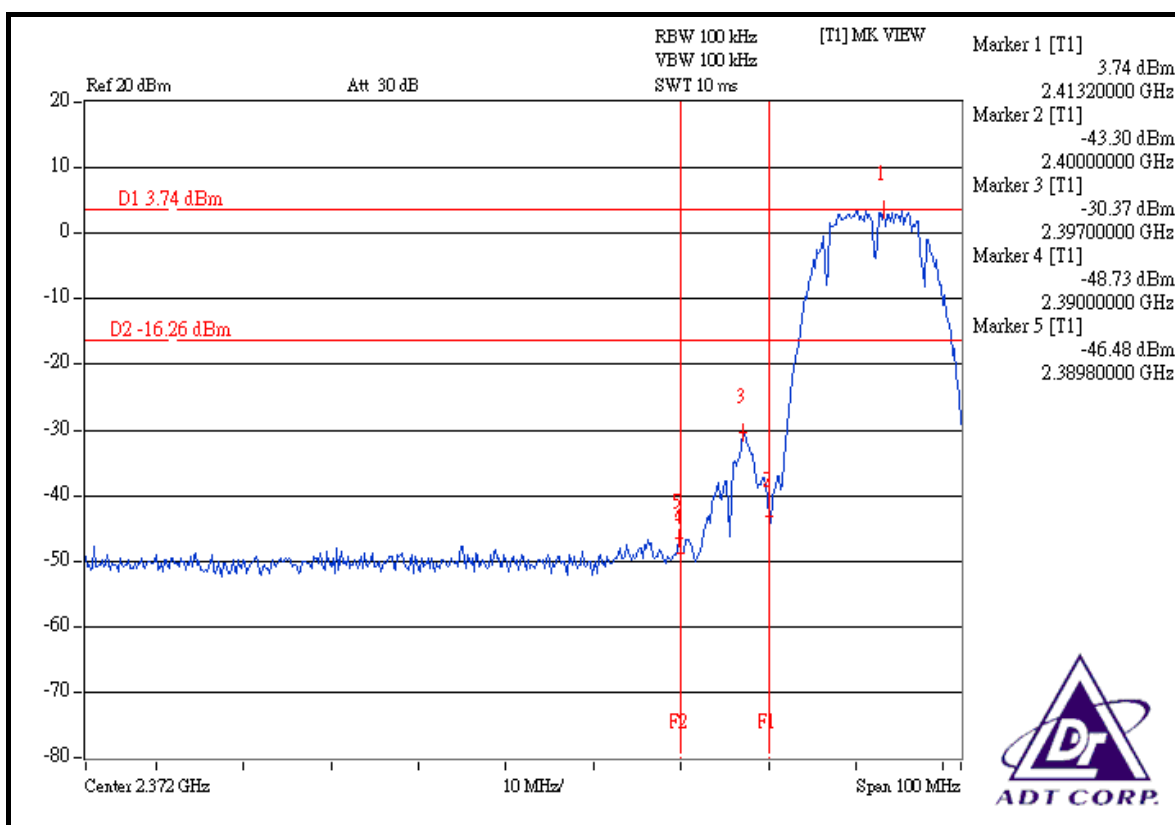
802.11b DSSS MODULATION

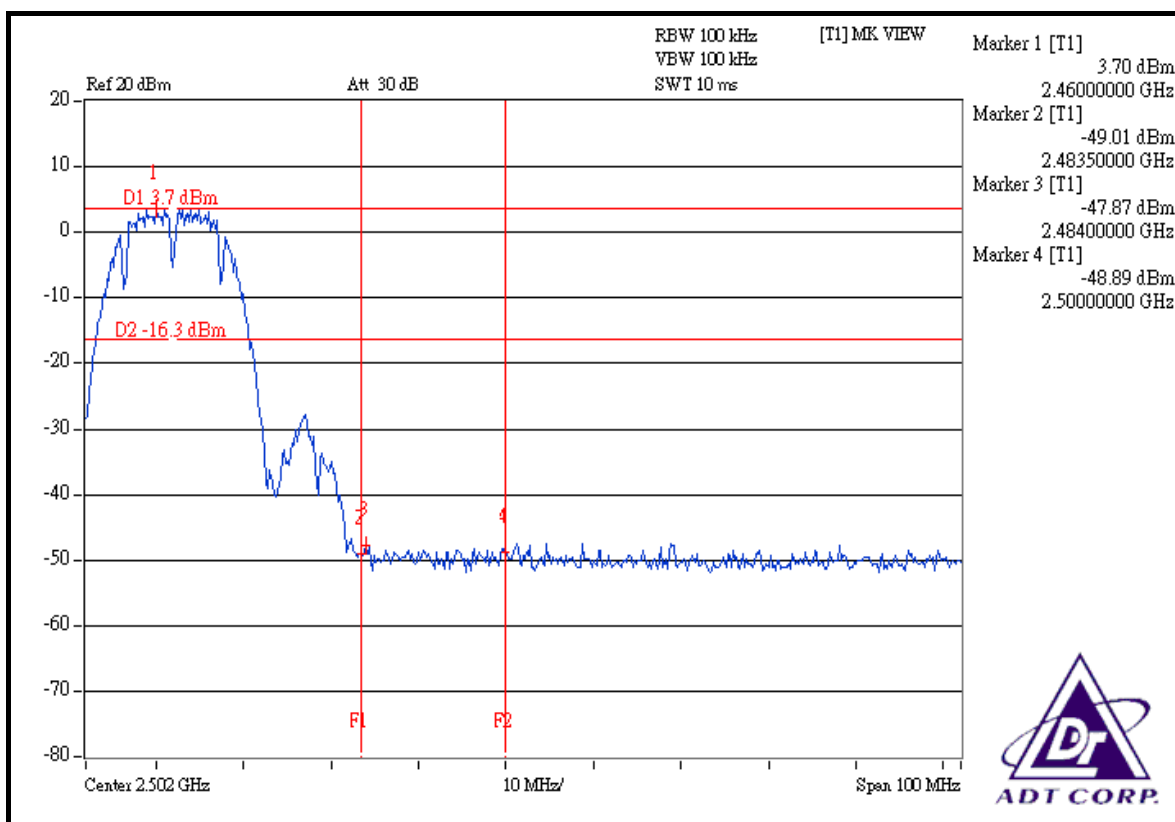
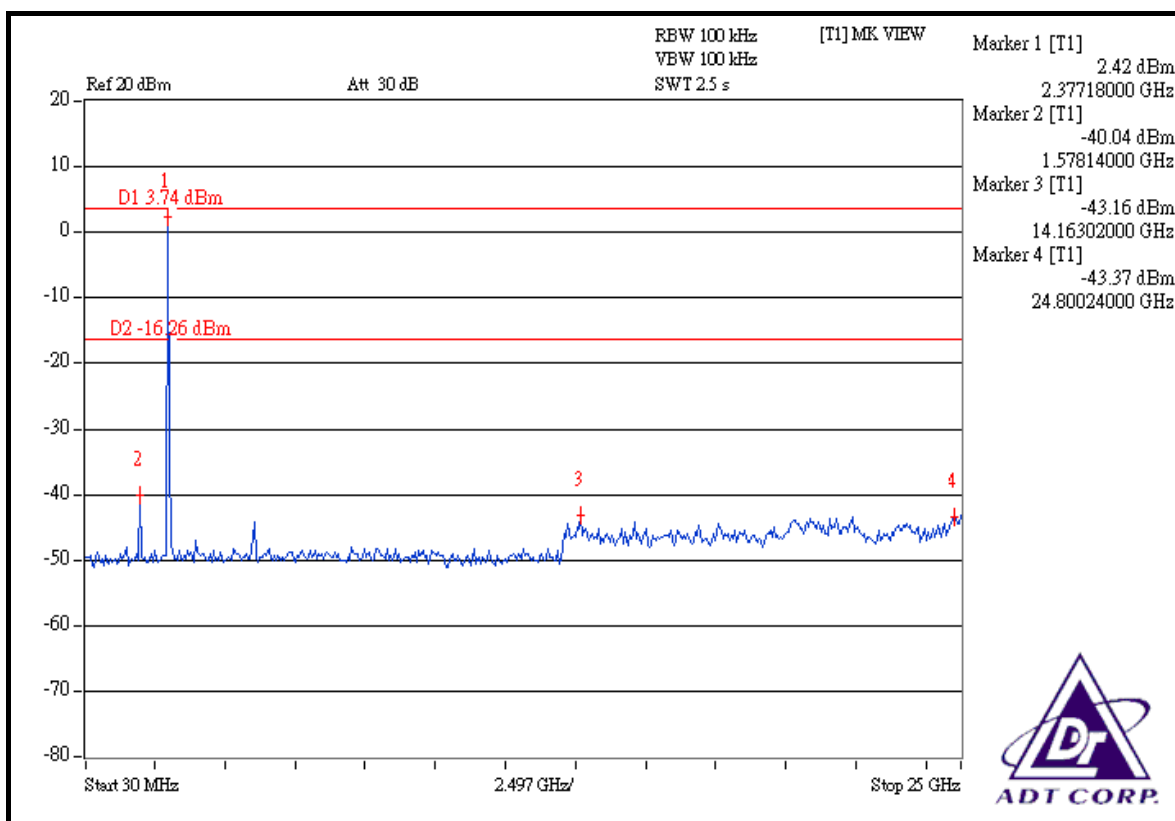
NOTE 1: The band edge emission plot on following first page shows 50.22dBc delta between carrier maximum power and local maximum emission in restrict band (2.38980GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.45dBuV/m (Peak), so the maximum field strength in restrict band is $108.45 - 50.22 = 58.23$ dBuV/m, which is under 74dBuV/m limit.

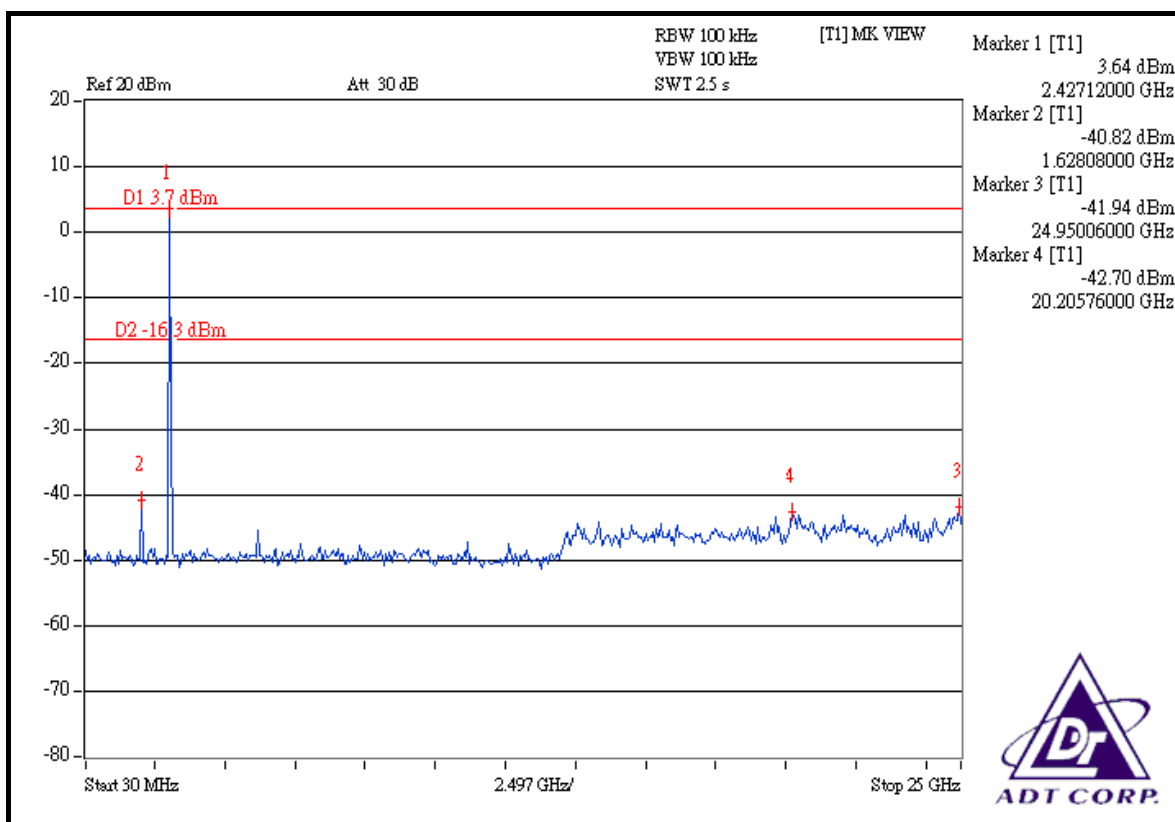
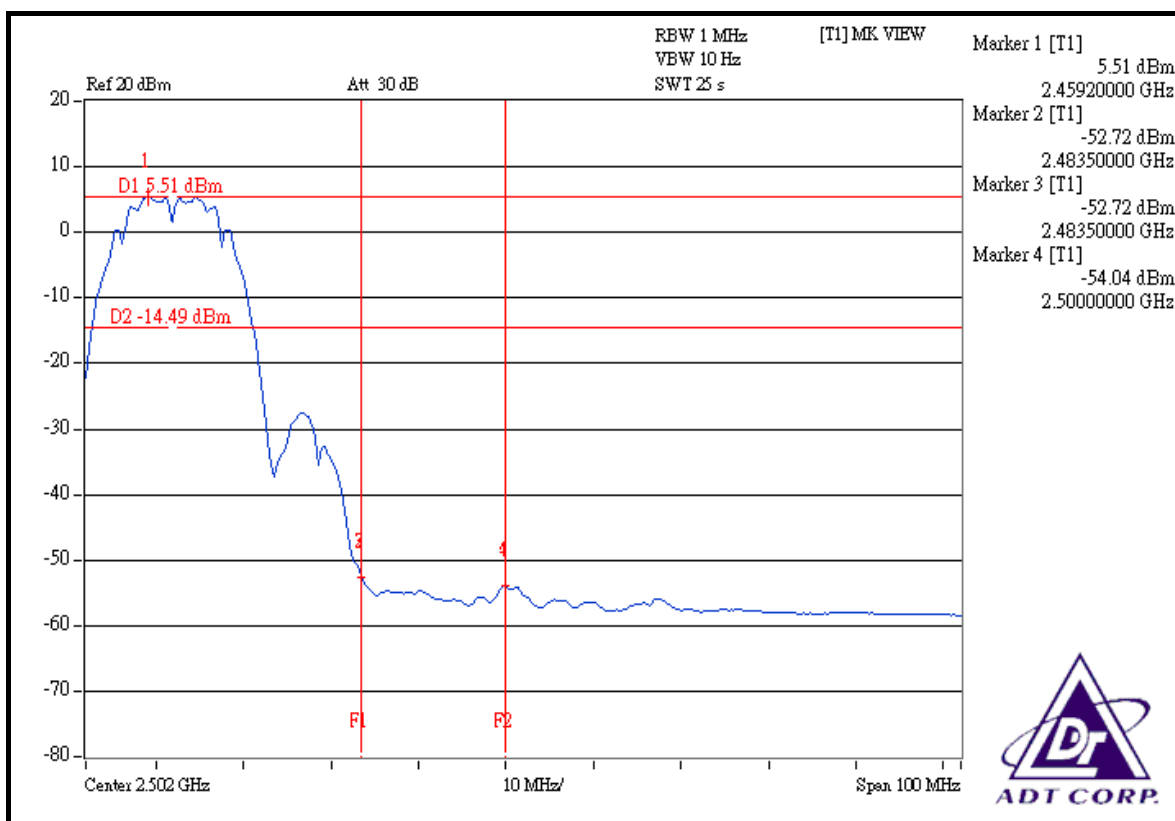
The band edge emission plot on following first page shows 56.06dBc delta between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 104.35dBuV/m (Average), so the maximum field strength in restrict band is $104.35 - 56.06 = 48.29$ dBuV/m, which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on following second page shows 51.57dBc delta between carrier maximum power and local maximum emission in restrict band (2.48400GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.42dBuV/m (Peak), so the maximum field strength in restrict band is $108.42 - 51.57 = 56.85$ dBuV/m, which is under 74dBuV/m limit.

The band edge emission plot on following third page shows 58.23dBc delta between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.18dBuV/m (Average), so the maximum field strength in restrict band is $104.18 - 58.23 = 45.95$ dBuV/m, which is under 54dBuV/m limit.







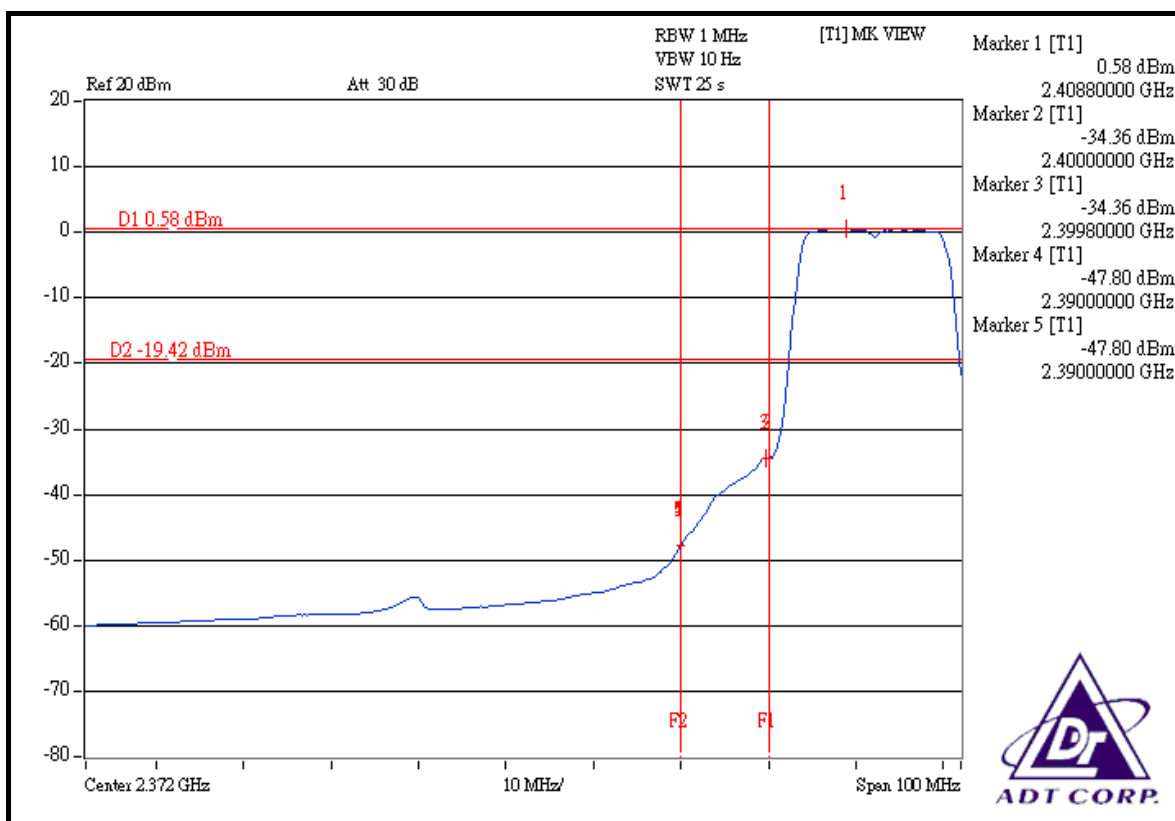
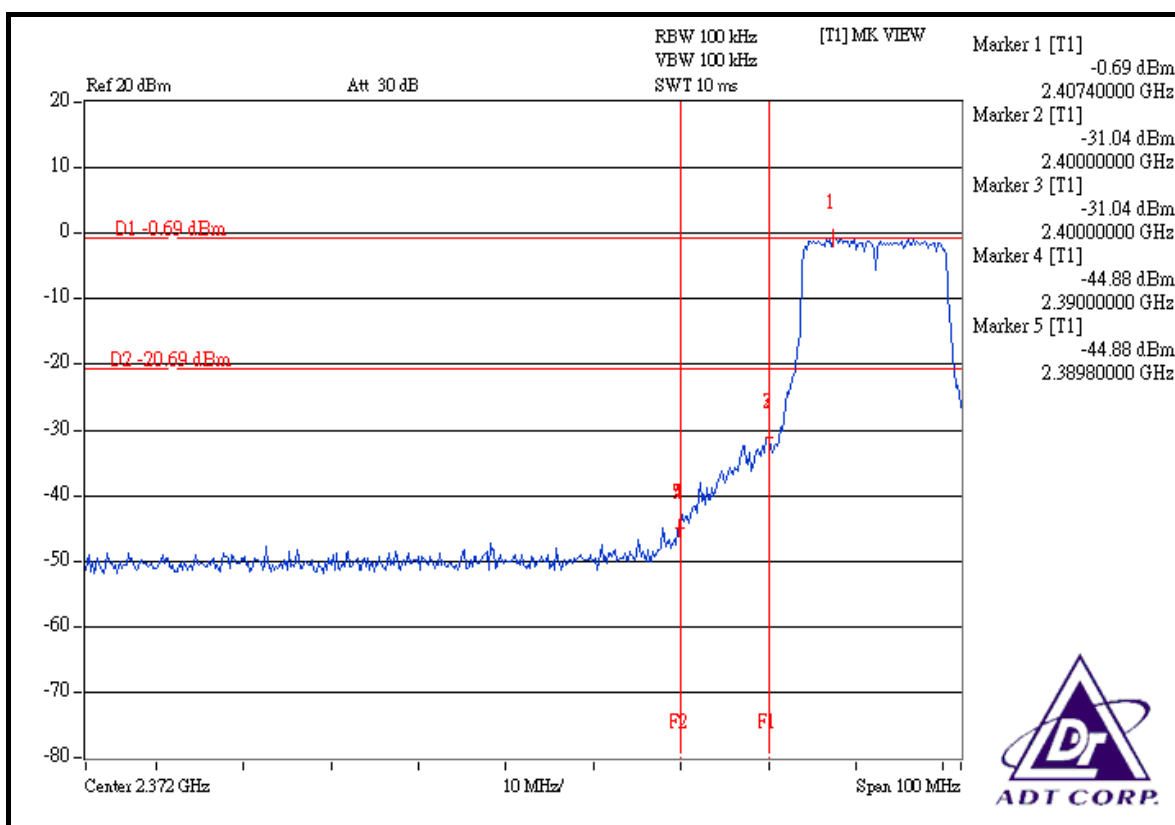
802.11g OFDM MODULATION

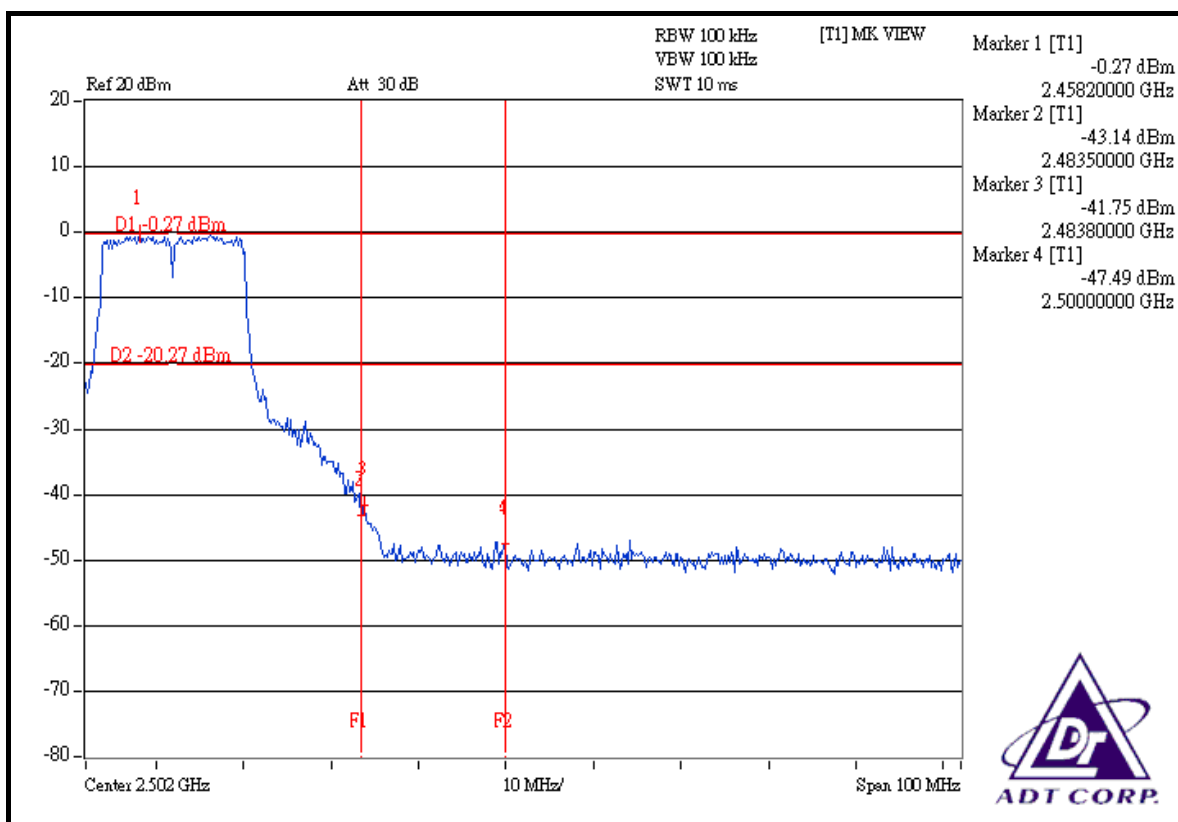
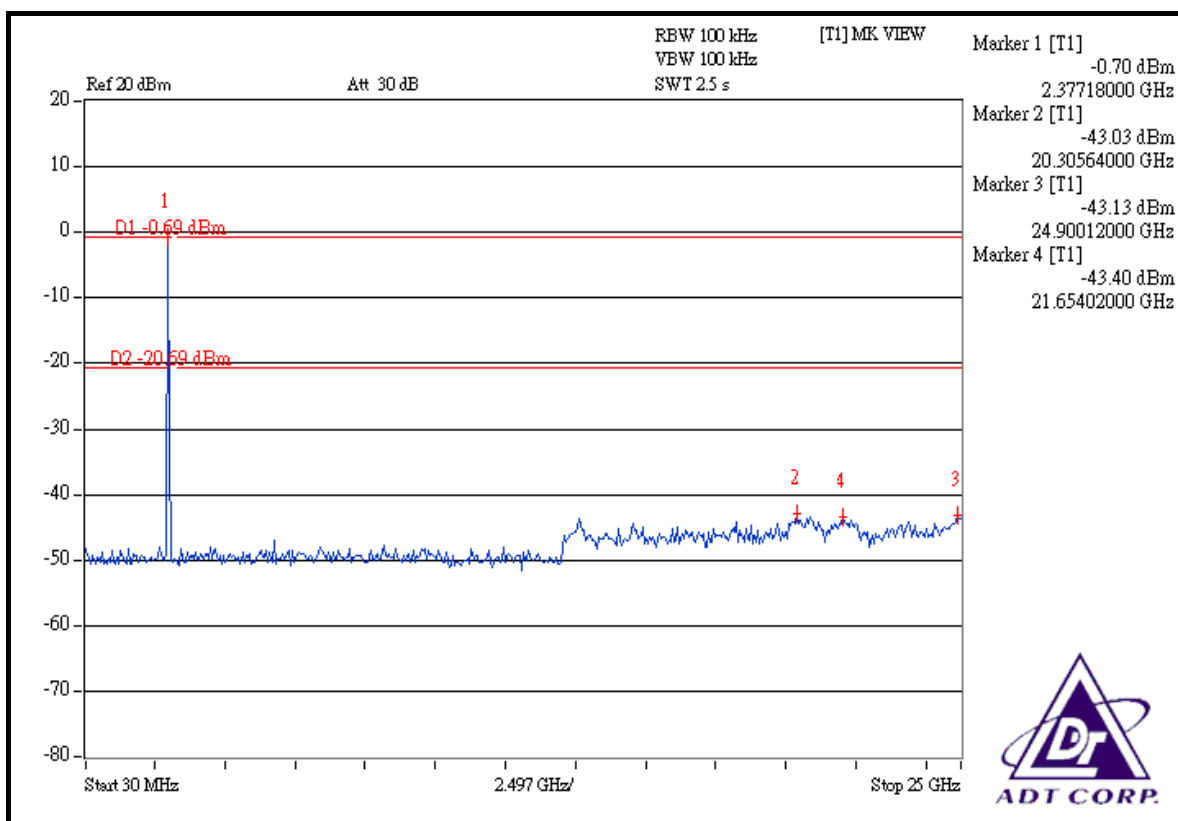
NOTE 1: The band edge emission plot on following first page shows 44.19dBc delta between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 109.39dBuV/m (Peak), so the maximum field strength in restrict band is $109.39 - 44.19 = 65.20$ dBuV/m, which is under 74dBuV/m limit.

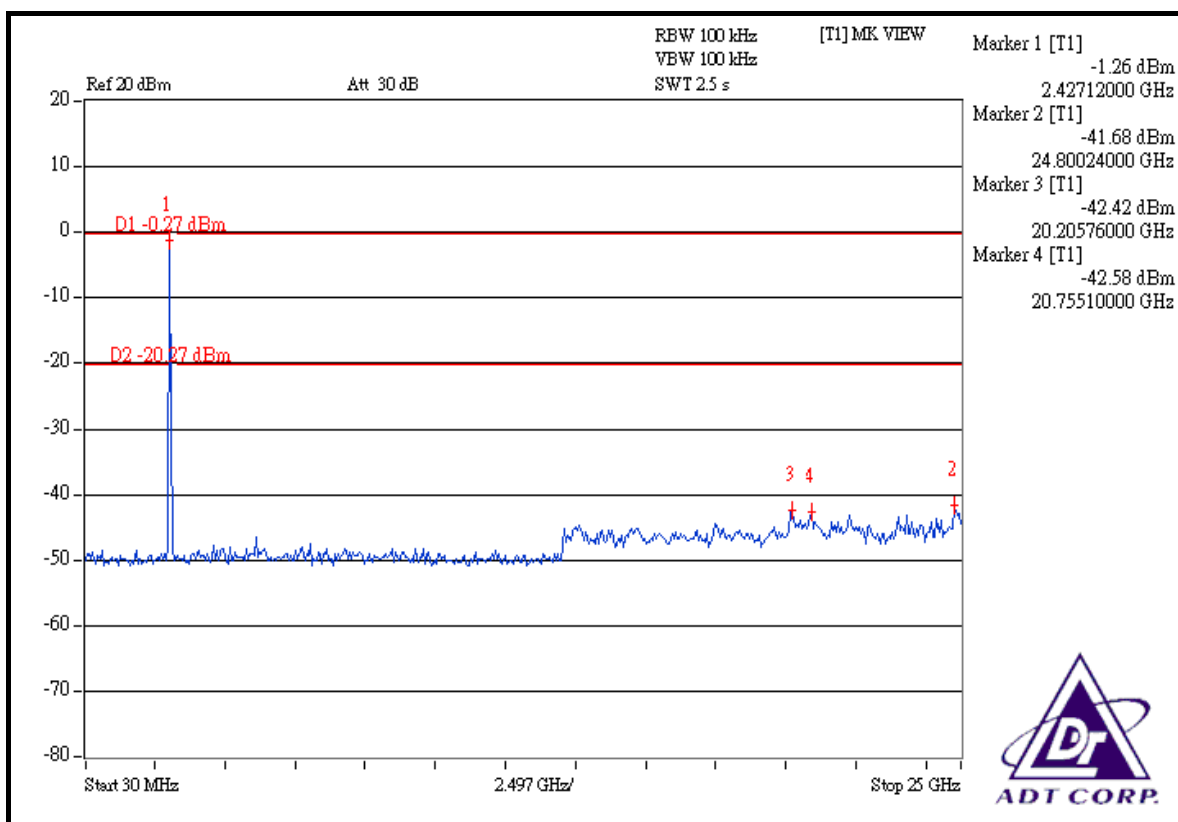
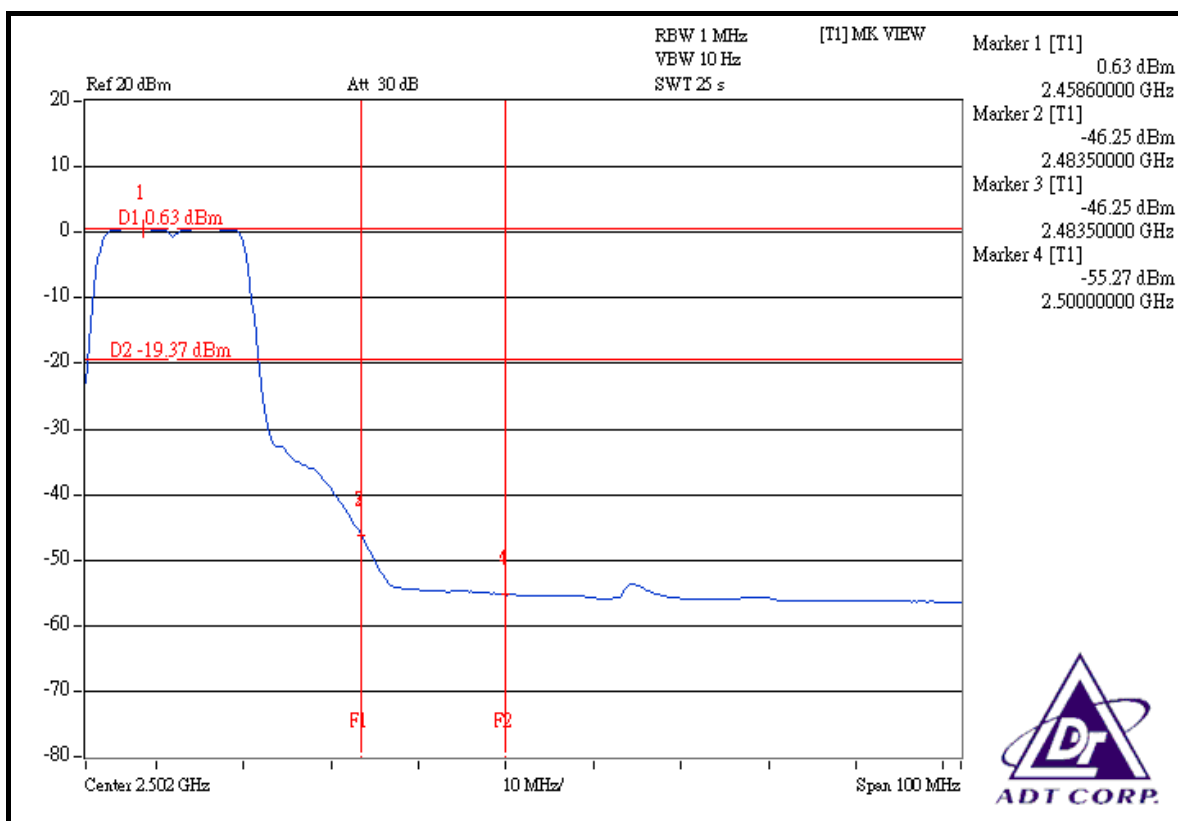
The band edge emission plot on following first page shows 48.38dBc delta between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.29dBuV/m (Average), so the maximum field strength in restrict band is $99.29 - 48.38 = 50.91$ dBuV/m, which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on following second page shows 41.48dBc delta between carrier maximum power and local maximum emission in restrict band (2.48380GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.43dBuV/m (Peak), so the maximum field strength in restrict band is $109.43 - 41.48 = 67.95$ dBuV/m, which is under 74dBuV/m limit.

The band edge emission plot on following third page shows 46.88dBc delta between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 99.38dBuV/m (Average), so the maximum field strength in restrict band is $99.38 - 46.88 = 52.50$ dBuV/m, which is under 54dBuV/m limit.







4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Dipole antenna with Reverse SMA connector. The maximum Gain of the antenna is 1.8dBi.

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

6. INFORMATION ON THE TESTING LABORATORIES

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

USA	FCC, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, NCC
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: 886-2-26051924

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

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.