

FCC TEST REPORT

REPORT NO.: RF950509L08

MODEL NO.: WAP4400N

RECEIVED: Jun. 01, 2006

TESTED: Jun. 04 ~ Jun. 17, 2006

ISSUED: Jun. 21, 2006

APPLICANT: Cisco-Linksys LLC

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

ISSUED BY: Advance Data Technology Corporation

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R.O.C.

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1. CERTIFICATION

PRODUCT: Wireless-N Access Point with Power Over Ethernet

MODEL: WAP4400N

BRAND: Linksys

APPLICANT: Cisco-Linksys LLC

TESTED: Jun. 04 ~ Jun. 17, 2006

TEST SAMPLE: ENGINEERING SAMPLE

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

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

PREPARED BY : Andrea Hsia , **DATE:** Jun. 21, 2006
Andrea Hsia

TECHNICAL
ACCEPTANCE : Long Chen , **DATE:** Jun. 21, 2006
Responsible for RF Long Chen

APPROVED BY : Gary Chang , **DATE:** Jun. 21, 2006
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 -10.77dB at 0.384MHz.
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit : min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -1.06dB at 2390.00MHz.
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44dB
Radiated emissions	30MHz ~ 200MHz (Horizontal)	3.47 dB
	30MHz ~ 200MHz (Vertical)	3.62 dB
	200MHz ~1000MHz (Horizontal)	3.64 dB
	200MHz ~1000MHz (Vertical)	3.62 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless-N Access Point with Power Over Ethernet
MODEL NO.	WAP4400N
FCC ID	Q87-WAP4400N
POWER SUPPLY	12Vdc from AC Adapter 48Vdc from POE
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/ 5.5/ 2/ 1Mbps 802.11g: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6Mbps Draft 802.11n (20MHz): 144.444/ 130.000/ 115.556/ 86.667/ 57.778/ 43.333/ 28.889/ 14.444/ 72.2/ 65.0/ 57.8/ 43.3/ 28.9/ 21.7/ 14.4/ 7.2Mbps Draft 802.11n (40MHz): 300/ 270/ 240/ 180/ 120/ 90/ 60/ 30/ 150/ 135/ 120/ 90/ 60/ 45/ 30/ 15Mbps
FREQUENCY RANGE	2400MHz ~ 2483.5MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, draft 802.11n (20MHz) 7 for draft 802.11n (40MHz), 802.11b (CB mode)
MAXIMUM OUTPUT POWER	253.533mW
ANTENNA TYPE	Dipole antenna with 3.14dBi gain
DATA CABLE	NA
I/O PORTS	NA

NOTE:

1. The EUT incorporates a MIMO function with 802.11b, 802.11g, draft 802.11n. Physically, the card provides two completed transmitters and three receivers.
2. The EUT is 2 * 3 spatial MIMO (2Tx & 3Rx) without beam forming function that only operate dual chain configuration (both chain 0 and chain 1 transceivers are operational).
3. When the EUT operating in 802.11b, 802.11g, the software operation, which is defined by manufacturer, only set dual Tx.
4. When the EUT operating in 802.11b with "Channel Binding function", the software operation, which is defined by manufacturer, only set dual Tx.
5. When the EUT operating in draft 802.11n, the software operation, which is defined by manufacturer, only set 0 ~ 15 of "MCS" (MCS: Modulation and Coding Schemes) for dual Tx.
6. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.
7. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 300Mbps.
8. 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.
9. The EUT was tested with following adapter:

BRAND:	Linksys
MODEL:	RH48-1201000DU
INPUT:	110Vac, 60Hz
OUTPUT:	12Vdc, 1A
POWER LINE:	1.8m non-shielded cable with core

3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided for 802.11b, 802.11g, draft 802.11n (20MHz):

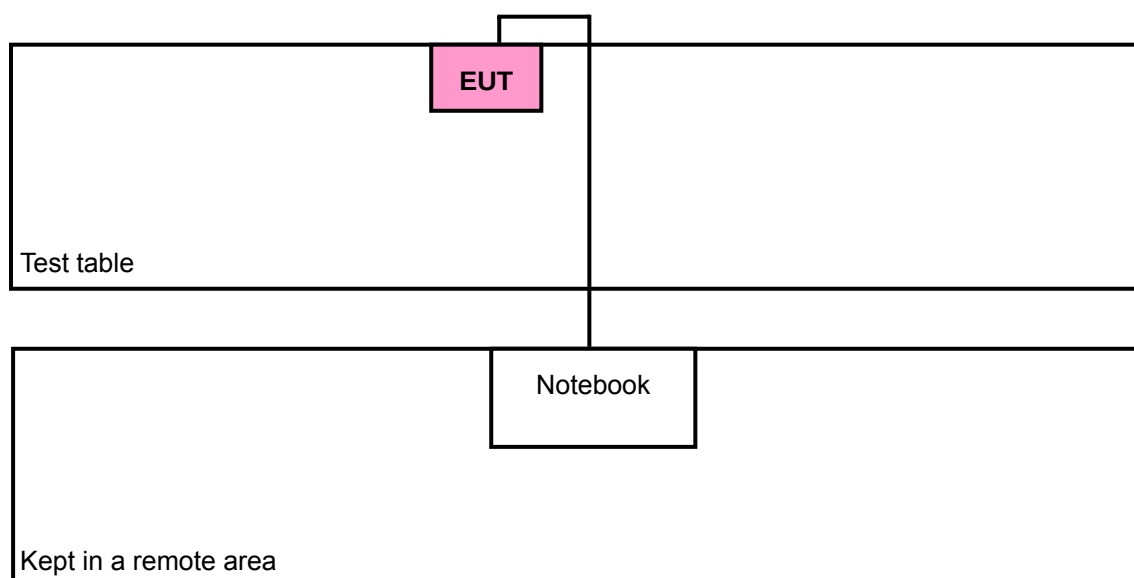
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

Seven channels are provided for 802.11b(CB mode), draft 802.11n (40MHz):

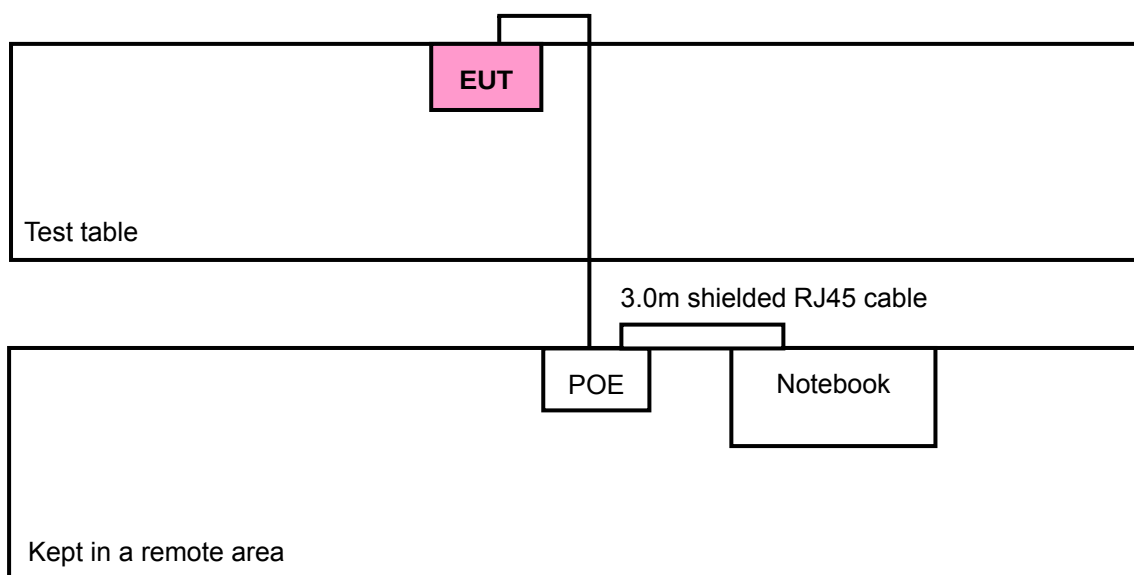
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2422MHz	5	2442MHz
2	2427MHz	6	2447MHz
3	2432MHz	7	2452MHz
4	2437MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Test Mode A:



Test Mode B:



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE < 1G	RE ≥ 1G	APCM	
A	√	√	-	-	Power from AC Adapter
B	√	√	√	√	Power 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

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)	TX CONDITION
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Dual
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Dual
A	Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Dual
B	Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Dual
A	Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15	Dual
B	Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15	Dual
A	802.11b (CB Mode)	1 to 7	1, 4, 7	DSSS	DBPSK	1	Dual
B	802.11b (CB Mode)	1 to 7	1, 4, 7	DSSS	DBPSK	1	Dual

RADIATED EMISSION TEST (BELOW 1 GHz):

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX CONDITION
A	802.11g	1 to 11	1	OFDM	BPSK	6	Dual
B	802.11g	1 to 11	1	OFDM	BPSK	6	Dual
A	Draft 802.11n (20MHz)	1 to 11	1	OFDM	BPSK	7.2	Dual
B	Draft 802.11n (20MHz)	1 to 11	1	OFDM	BPSK	7.2	Dual
A	Draft 802.11n (40MHz)	1 to 7	1	OFDM	BPSK	15	Dual
B	Draft 802.11n (40MHz)	1 to 7	1	OFDM	BPSK	15	Dual
A	802.11b (CB Mode)	1 to 7	1	DSSS	DBPSK	1	Dual
B	802.11b (CB Mode)	1 to 7	1	DSSS	DBPSK	1	Dual

RADIATED EMISSION TEST (ABOVE 1 GHz):

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX CONDITION
B	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	Dual
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Dual
B	Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Dual
B	Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15	Dual
B	802.11b(CB Mode)	1 to 7	1, 4, 7	DSSS	DBPSK	1	Dual

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)	TX CONDITION
B	802.11b	1 to 11	1, 11	DSSS	DBPSK	1	Dual
B	802.11g	1 to 11	1, 11	OFDM	BPSK	6	Dual
B	Draft 802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	7.2	Dual
B	Draft 802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	15	Dual
B	802.11b(CB Mode)	1 to 7	1, 7	DSSS	DBPSK	1	Dual

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)	TX CONDITION
B	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	Dual
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Dual
B	Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Dual
B	Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15	Dual
B	802.11b(CB Mode)	1 to 7	1, 4, 7	DSSS	DBPSK	1	Dual

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247)

ANSI C63.4-2003

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

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

3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	33898721680	E2K24CLNS
2	POE	PowerDsine™ 301	PD-3001/AC	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.8m shielded cable

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

4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 11, 2006
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 06, 2007
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Feb. 15, 2007
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 07, 2007
Software ADT	ADT_Cond_V3	NA	NA

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

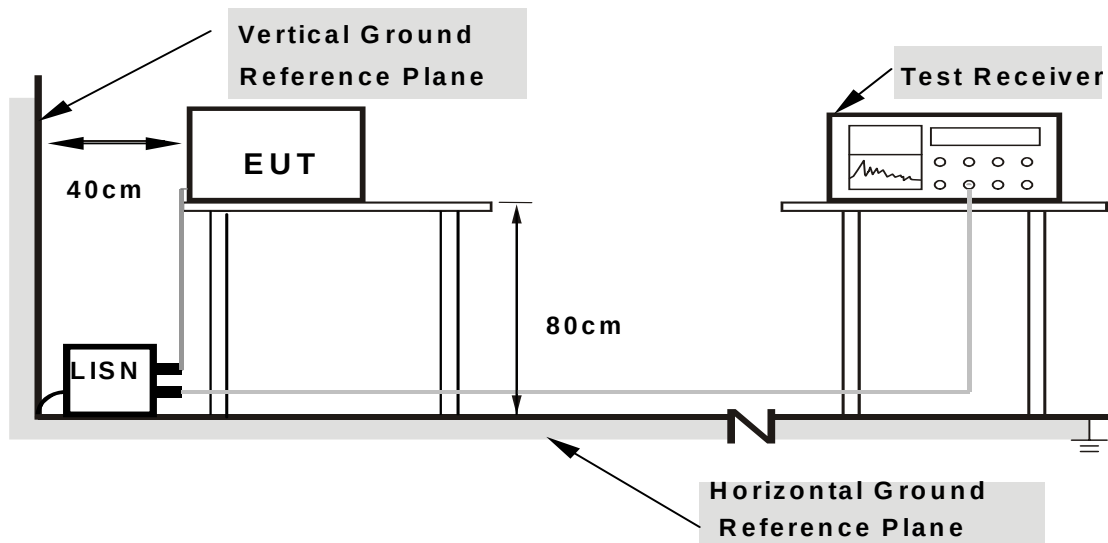
4.1.3 TEST PROCEDURES

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.1.6 EUT OPERATING CONDITIONS

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

The communication partner sent data to EUT by command "PING".

4.1.7 TEST RESULTS

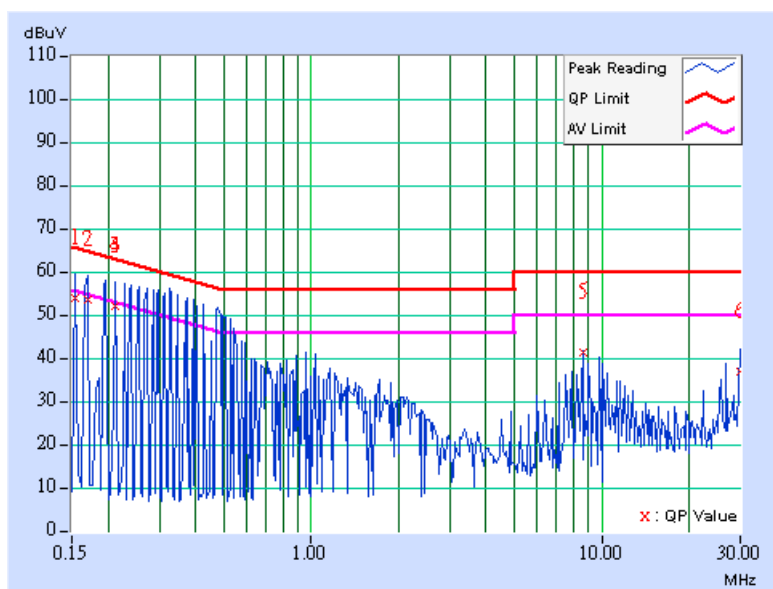
CONDUCTED WORST-CASE DATA: 802.11g OFDM MODULATION:

FOR TEST MODE A: POWER FROM AC ADAPTER

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

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	0.154	0.10	52.70	-	52.80	-	65.79	55.79	-12.99	-
2	0.170	0.10	52.27	-	52.37	-	64.98	54.98	-12.61	-
3	0.213	0.10	50.92	-	51.02	-	63.11	53.11	-12.09	-
4	0.213	0.10	50.90	-	51.00	-	63.11	53.11	-12.11	-
5	8.621	0.46	40.08	-	40.54	-	60.00	50.00	-19.46	-
6	29.840	1.32	35.72	-	37.04	-	60.00	50.00	-22.96	-

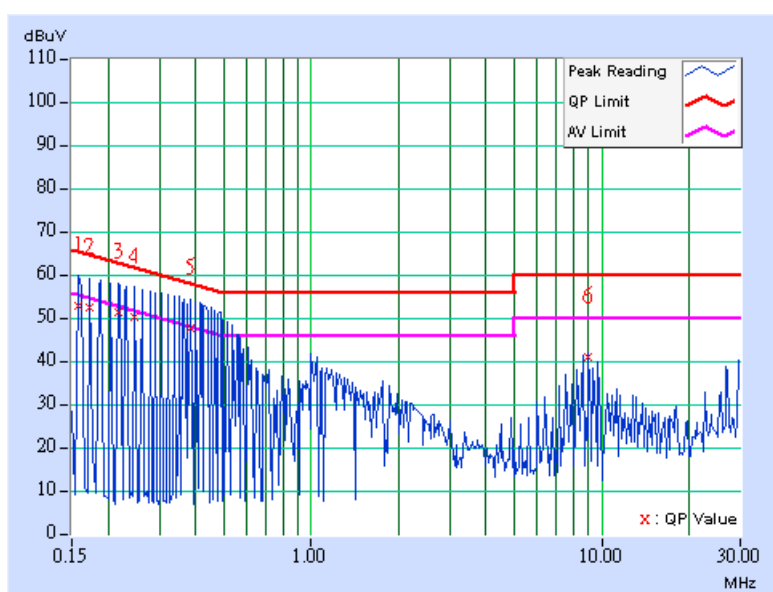
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	52.68	-	52.78	-	65.58	55.58	-12.80	-
2	0.173	0.10	52.27	-	52.37	-	64.79	54.79	-12.42	-
3	0.216	0.10	50.94	-	51.04	-	62.96	52.96	-11.92	-
4	0.248	0.10	49.94	-	50.04	-	61.84	51.84	-11.80	-
5	0.384	0.10	47.31	-	47.41	-	58.18	48.18	-10.77	-
6	8.996	0.44	40.55	-	40.99	-	60.00	50.00	-19.01	-

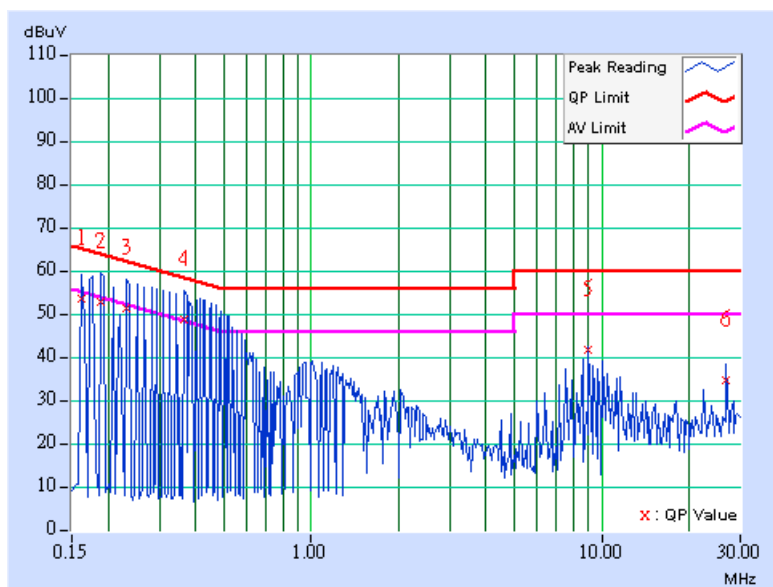
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	52.46	-	52.56	-	65.38	55.38	-12.82	-
2	0.189	0.10	51.68	-	51.78	-	64.08	54.08	-12.30	-
3	0.232	0.10	50.32	-	50.42	-	62.38	52.38	-11.96	-
4	0.365	0.10	47.69	-	47.79	-	58.62	48.62	-10.83	-
5	8.996	0.46	40.61	-	41.07	-	60.00	50.00	-18.93	-
6	26.879	1.14	33.81	-	34.95	-	60.00	50.00	-25.05	-

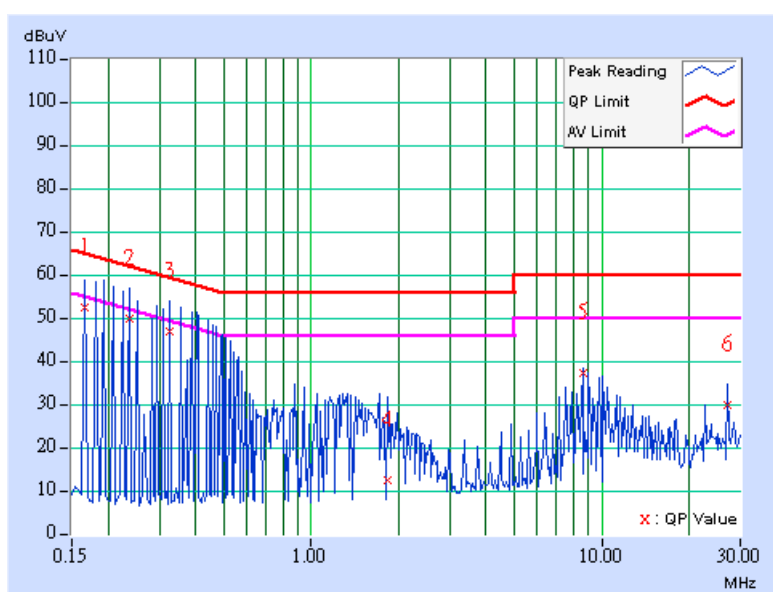
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = 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 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	51.92	-	52.02	-	65.18	55.18	-13.16	-
2	0.236	0.10	49.19	-	49.29	-	62.24	52.24	-12.95	-
3	0.326	0.10	46.32	-	46.42	-	59.56	49.56	-13.14	-
4	1.840	0.18	11.96	-	12.14	-	56.00	46.00	-43.86	-
5	8.621	0.44	36.75	-	37.19	-	60.00	50.00	-22.81	-
6	27.191	0.63	29.36	-	29.99	-	60.00	50.00	-30.01	-

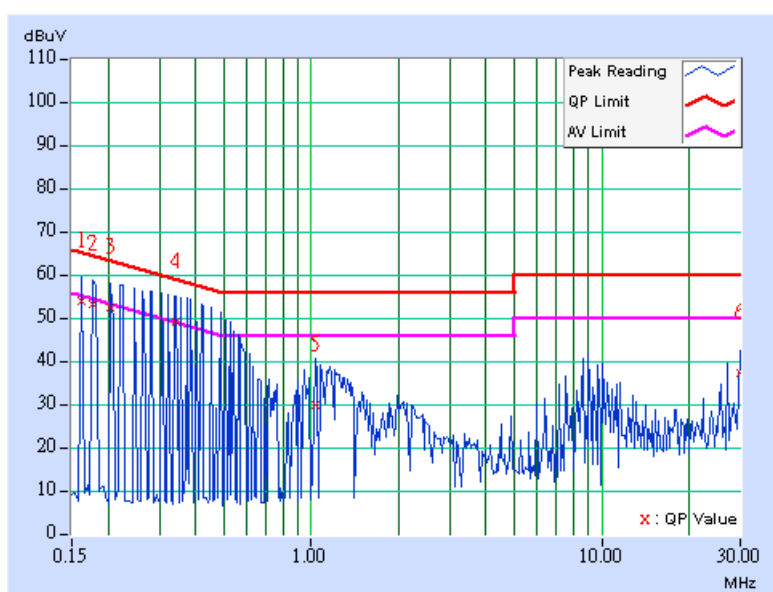
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	52.64	-	52.74	-	65.38	55.38	-12.64	-
2	0.177	0.10	52.17	-	52.27	-	64.61	54.61	-12.34	-
3	0.205	0.10	51.18	-	51.28	-	63.42	53.42	-12.14	-
4	0.341	0.10	48.11	-	48.21	-	59.17	49.17	-10.96	-
5	1.035	0.20	28.59	-	28.79	-	56.00	46.00	-27.21	-
6	29.836	1.32	36.23	-	37.55	-	60.00	50.00	-22.45	-

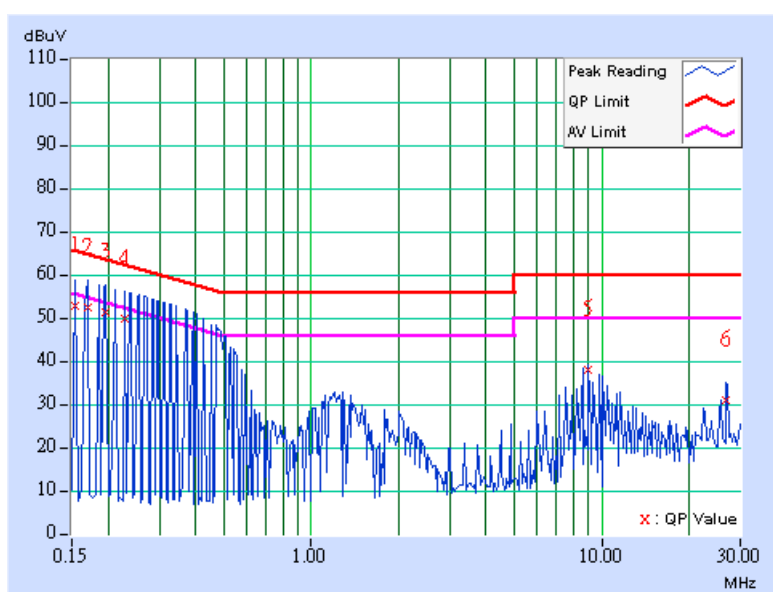
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.10	52.18	-	52.28	-	65.79	55.79	-13.51	-
2	0.170	0.10	51.83	-	51.93	-	64.98	54.98	-13.05	-
3	0.197	0.10	50.74	-	50.84	-	63.74	53.74	-12.90	-
4	0.228	0.10	49.52	-	49.62	-	62.52	52.52	-12.90	-
5	8.996	0.44	37.50	-	37.94	-	60.00	50.00	-22.06	-
6	26.852	0.63	30.38	-	31.01	-	60.00	50.00	-28.99	-

- 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.

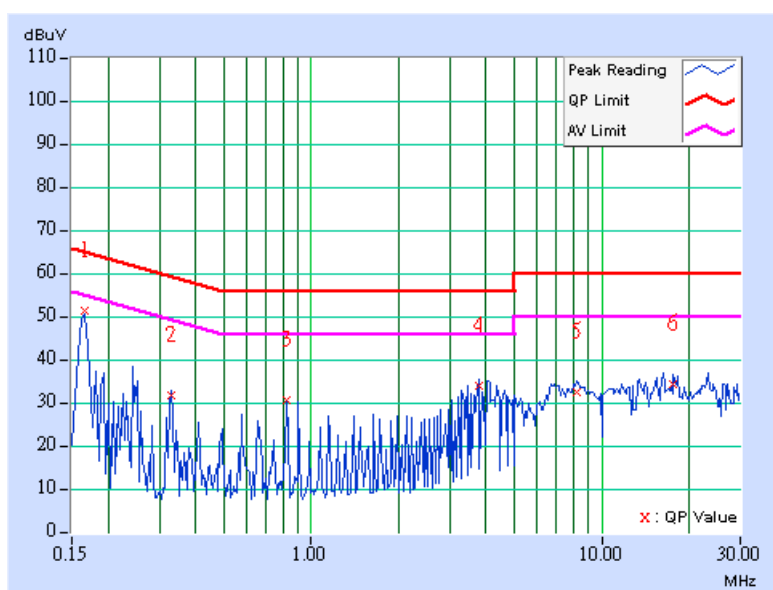


FOR TEST MODE B: POWER FROM POE

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	22deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor [dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	50.64	-	50.74	-	65.18	55.18	-14.44	-
2	0.330	0.10	30.93	-	31.03	-	59.46	49.46	-28.43	-
3	0.823	0.17	30.15	-	30.32	-	56.00	46.00	-25.68	-
4	3.785	0.44	33.52	-	33.96	-	56.00	46.00	-22.04	-
5	8.230	0.46	31.94	-	32.40	-	60.00	50.00	-27.60	-
6	17.695	0.74	33.72	-	34.46	-	60.00	50.00	-25.54	-

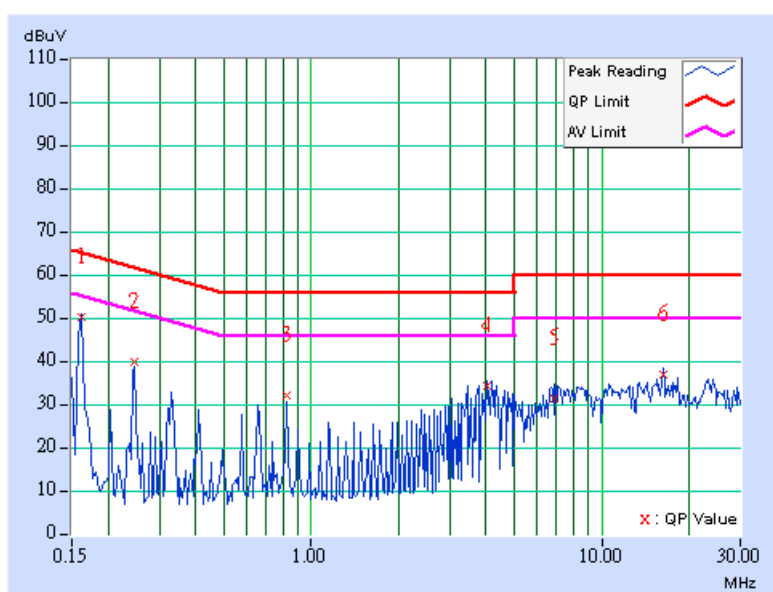
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	22deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	49.66	-	49.76	-	65.38	55.38	-15.62	-
2	0.248	0.10	39.42	-	39.52	-	61.84	51.84	-22.32	-
3	0.822	0.10	31.49	-	31.59	-	56.00	46.00	-24.41	-
4	4.035	0.37	34.01	-	34.38	-	56.00	46.00	-21.62	-
5	6.914	0.41	30.80	-	31.21	-	60.00	50.00	-28.79	-
6	16.227	0.55	36.39	-	36.94	-	60.00	50.00	-23.06	-

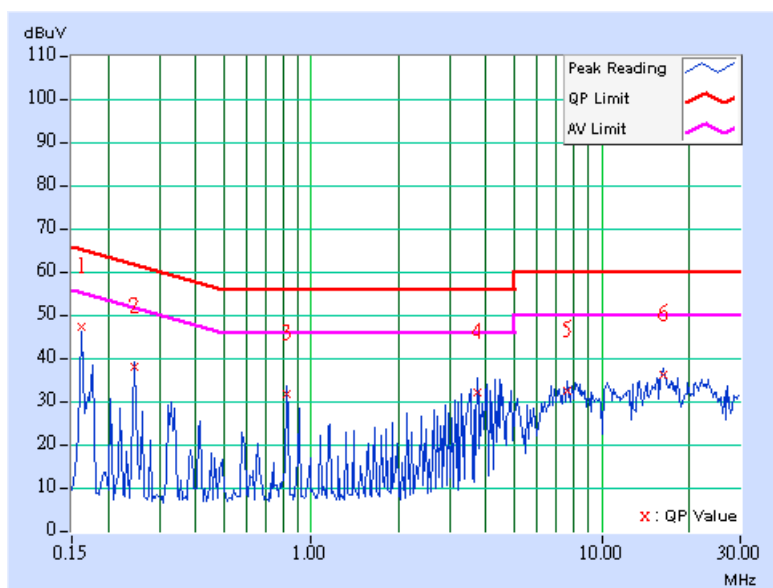
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	22deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	46.83	-	46.93	-	65.38	55.38	-18.45	-
2	0.248	0.10	37.50	-	37.60	-	61.84	51.84	-24.24	-
3	0.826	0.17	31.09	-	31.26	-	56.00	46.00	-24.74	-
4	3.711	0.43	31.57	-	32.00	-	56.00	46.00	-24.00	-
5	7.590	0.46	31.92	-	32.38	-	60.00	50.00	-27.62	-
6	16.227	0.68	35.71	-	36.39	-	60.00	50.00	-23.61	-

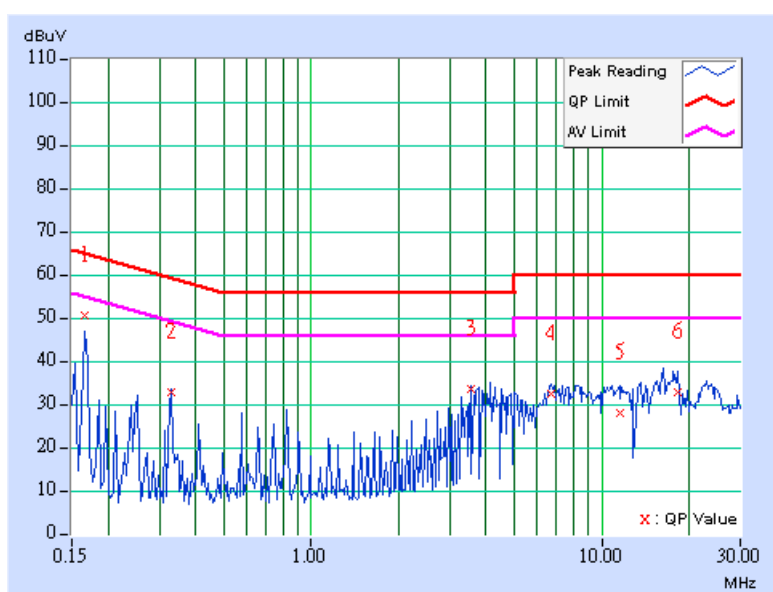
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = 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	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	22deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	49.98	-	50.08	-	65.18	55.18	-15.10	-
2	0.330	0.10	32.31	-	32.41	-	59.46	49.46	-27.05	-
3	3.544	0.33	32.97	-	33.30	-	56.00	46.00	-22.70	-
4	6.677	0.41	32.04	-	32.45	-	60.00	50.00	-27.55	-
5	11.527	0.48	27.47	-	27.95	-	60.00	50.00	-32.05	-
6	18.242	0.59	32.32	-	32.91	-	60.00	50.00	-27.09	-

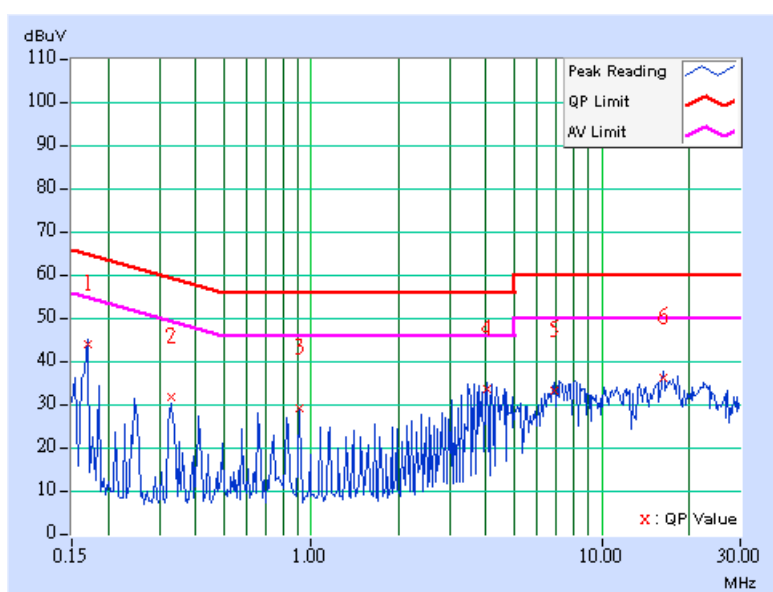
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	22deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	43.39	-	43.49	-	64.98	54.98	-21.49	-
2	0.330	0.10	31.21	-	31.31	-	59.46	49.46	-28.15	-
3	0.908	0.18	28.46	-	28.64	-	56.00	46.00	-27.36	-
4	4.043	0.47	33.07	-	33.54	-	56.00	46.00	-22.46	-
5	6.852	0.47	32.67	-	33.14	-	60.00	50.00	-26.86	-
6	16.227	0.68	35.71	-	36.39	-	60.00	50.00	-23.61	-

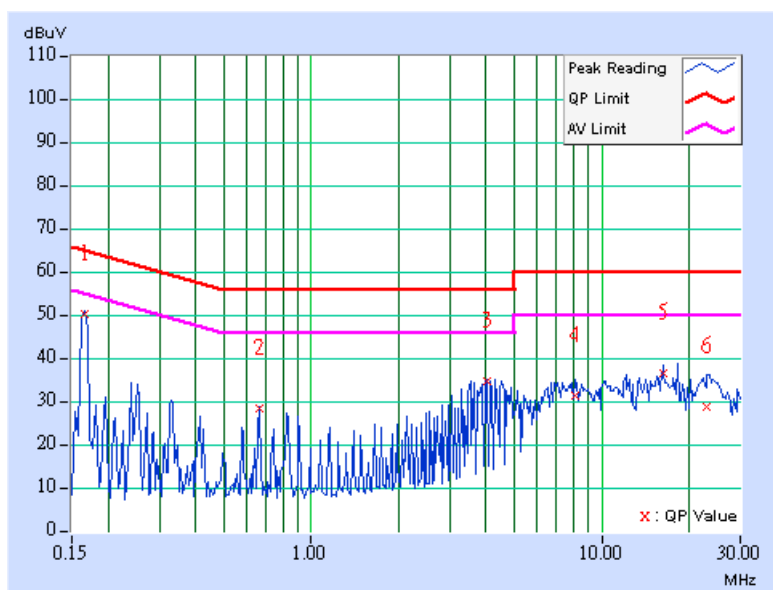
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	22deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	49.56	-	49.66	-	65.18	55.18	-15.52	-
2	0.662	0.10	27.97	-	28.07	-	56.00	46.00	-27.93	-
3	4.047	0.37	34.05	-	34.42	-	56.00	46.00	-21.58	-
4	8.094	0.43	31.00	-	31.43	-	60.00	50.00	-28.57	-
5	16.227	0.55	36.07	-	36.62	-	60.00	50.00	-23.38	-
6	23.047	0.63	28.26	-	28.89	-	60.00	50.00	-31.11	-

- 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.

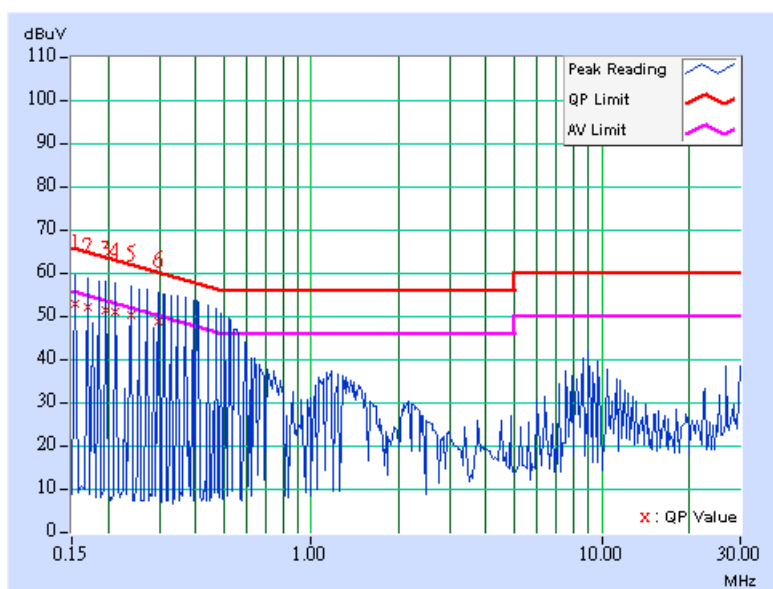


**DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:
FOR TEST MODE A: POWER FROM AC ADAPTER**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.10	52.76	-	52.86	-	65.79	55.79	-12.93	-
2	0.170	0.10	52.29	-	52.39	-	64.98	54.98	-12.59	-
3	0.197	0.10	51.42	-	51.52	-	63.74	53.74	-12.22	-
4	0.213	0.10	50.86	-	50.96	-	63.11	53.11	-12.15	-
5	0.240	0.10	50.10	-	50.20	-	62.10	52.10	-11.90	-
6	0.298	0.10	48.63	-	48.73	-	60.29	50.29	-11.56	-

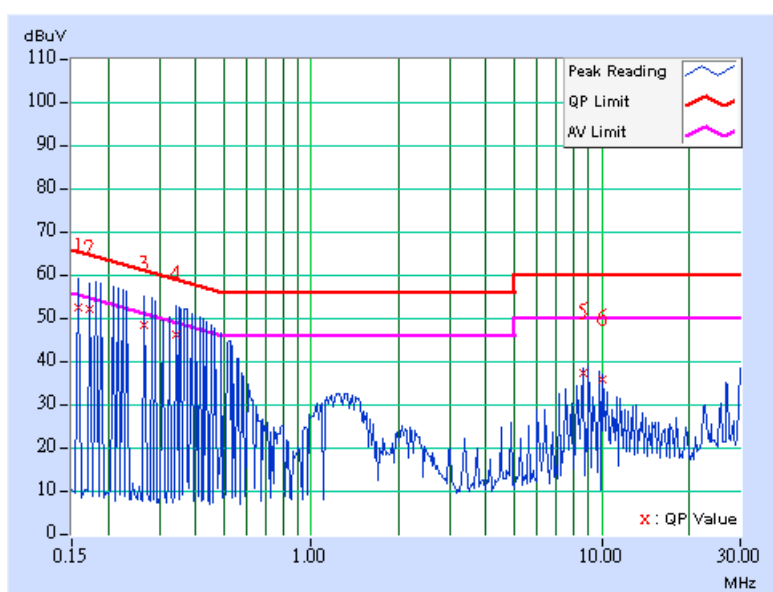
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	52.20	-	52.30	-	65.58	55.58	-13.28	-
2	0.173	0.10	51.59	-	51.69	-	64.79	54.79	-13.10	-
3	0.267	0.10	48.16	-	48.26	-	61.20	51.20	-12.94	-
4	0.341	0.10	45.89	-	45.99	-	59.17	49.17	-13.18	-
5	8.621	0.44	37.13	-	37.57	-	60.00	50.00	-22.43	-
6	10.121	0.46	35.46	-	35.92	-	60.00	50.00	-24.08	-

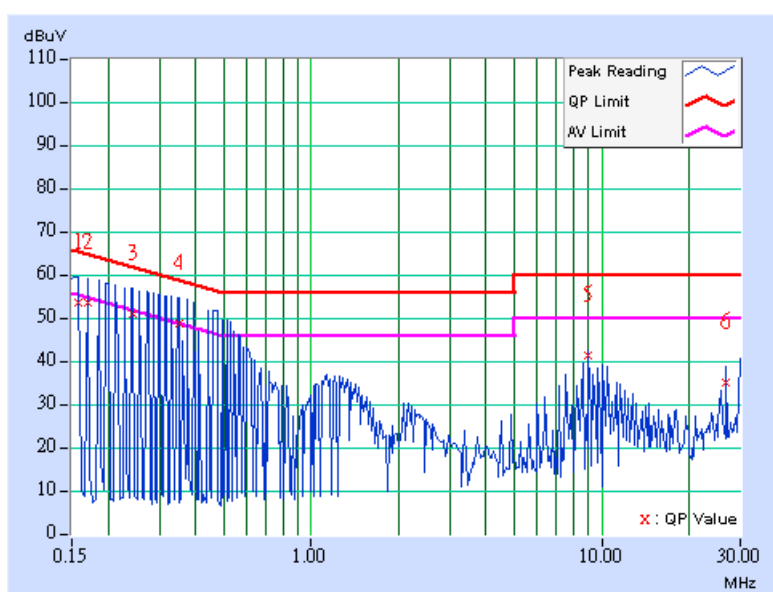
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	52.58	-	52.68	-	65.58	55.58	-12.90	-
2	0.170	0.10	52.45	-	52.55	-	64.98	54.98	-12.43	-
3	0.244	0.10	50.08	-	50.18	-	61.97	51.97	-11.79	-
4	0.349	0.10	47.79	-	47.89	-	58.98	48.98	-11.09	-
5	8.996	0.46	40.47	-	40.93	-	60.00	50.00	-19.07	-
6	26.828	1.14	33.94	-	35.08	-	60.00	50.00	-24.92	-

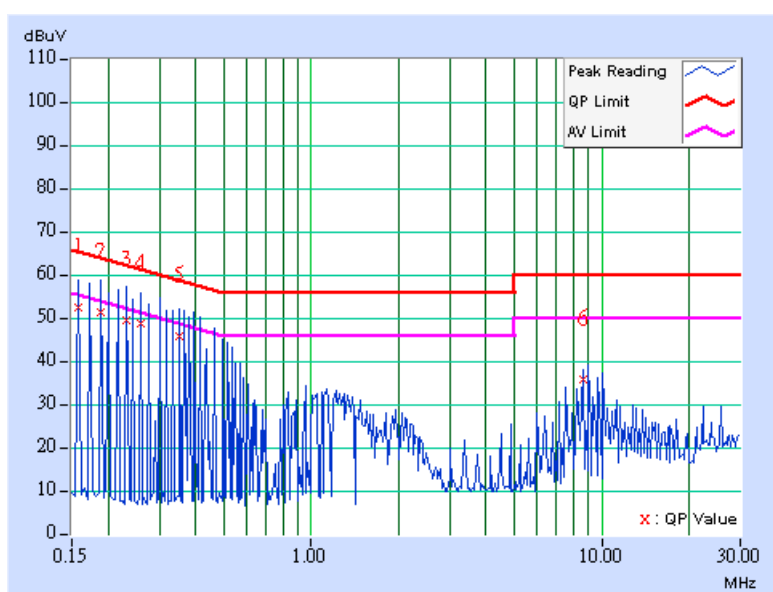
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	52.10	-	52.20	-	65.58	55.58	-13.38	-
2	0.189	0.10	50.98	-	51.08	-	64.08	54.08	-13.00	-
3	0.232	0.10	49.32	-	49.42	-	62.38	52.38	-12.96	-
4	0.259	0.10	48.27	-	48.37	-	61.45	51.45	-13.08	-
5	0.353	0.10	45.58	-	45.68	-	58.89	48.89	-13.21	-
6	8.617	0.44	35.55	-	35.99	-	60.00	50.00	-24.01	-

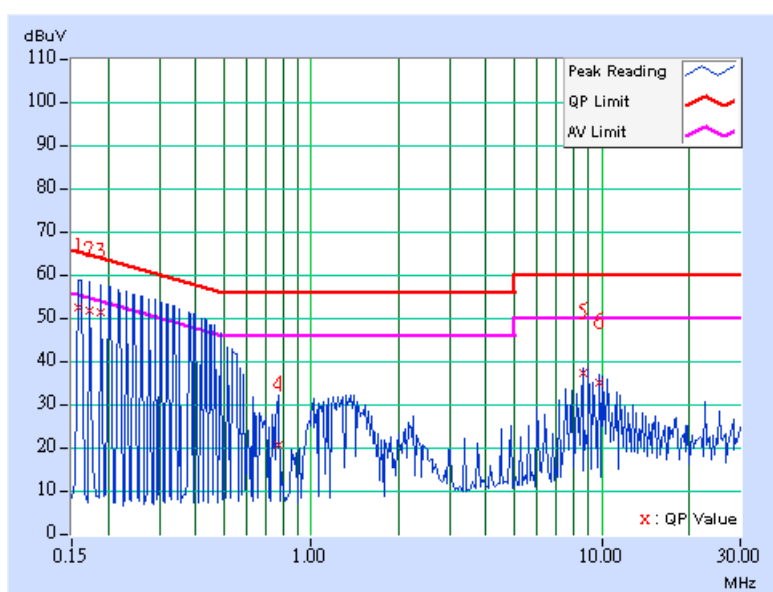
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	52.18	-	52.28	-	65.58	55.58	-13.30	-
2	0.173	0.10	51.55	-	51.65	-	64.79	54.79	-13.14	-
3	0.189	0.10	50.92	-	51.02	-	64.08	54.08	-13.06	-
4	0.775	0.16	20.37	-	20.53	-	56.00	46.00	-35.47	-
5	8.621	0.46	36.81	-	37.27	-	60.00	50.00	-22.73	-
6	9.746	0.46	34.66	-	35.12	-	60.00	50.00	-24.88	-

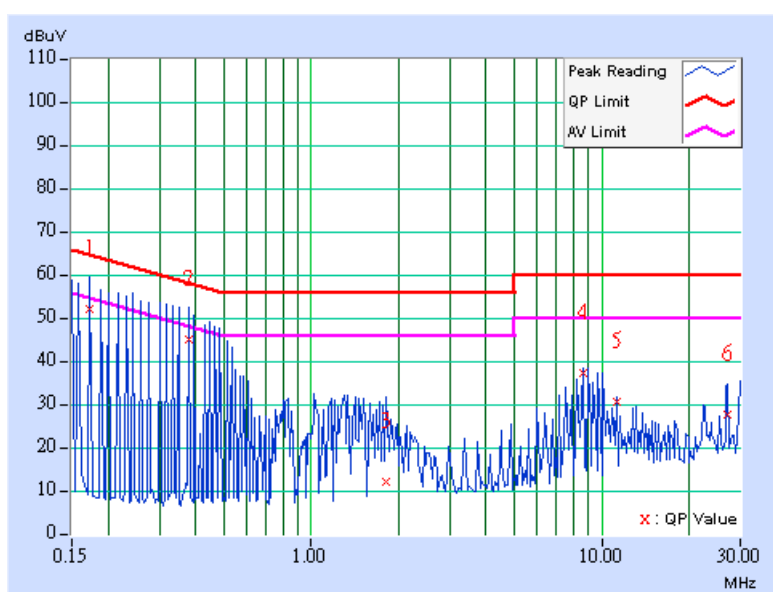
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.10	51.71	-	51.81	-	64.79	54.79	-12.98	-
2	0.380	0.10	44.66	-	44.76	-	58.27	48.27	-13.51	-
3	1.816	0.18	11.60	-	11.78	-	56.00	46.00	-44.22	-
4	8.621	0.44	36.71	-	37.15	-	60.00	50.00	-22.85	-
5	11.246	0.48	30.28	-	30.76	-	60.00	50.00	-29.24	-
6	27.223	0.63	27.22	-	27.85	-	60.00	50.00	-32.15	-

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

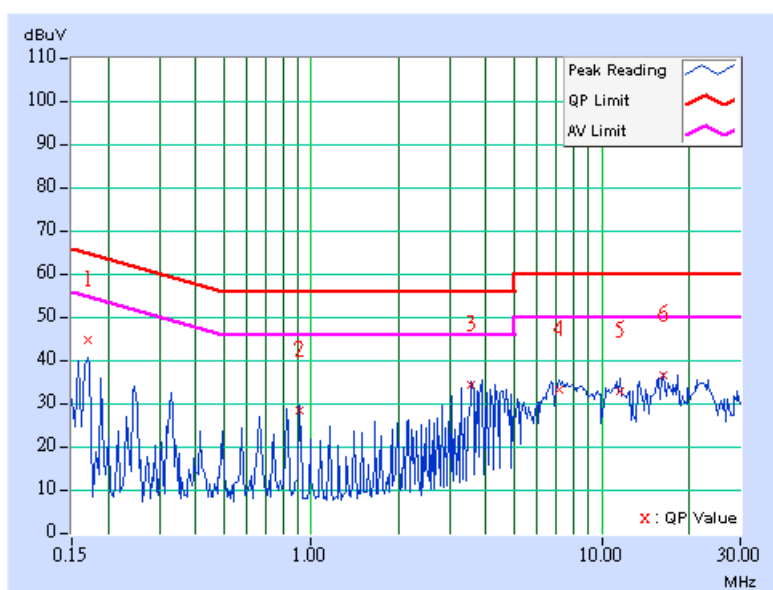


FOR TEST MODE B: POWER FROM POE

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	43.96	-	44.06	-	64.98	54.98	-20.92	-
2	0.908	0.18	27.79	-	27.97	-	56.00	46.00	-28.03	-
3	3.559	0.41	33.67	-	34.08	-	56.00	46.00	-21.92	-
4	7.117	0.46	32.75	-	33.21	-	60.00	50.00	-26.79	-
5	11.586	0.51	32.18	-	32.69	-	60.00	50.00	-27.31	-
6	16.227	0.68	36.05	-	36.73	-	60.00	50.00	-23.27	-

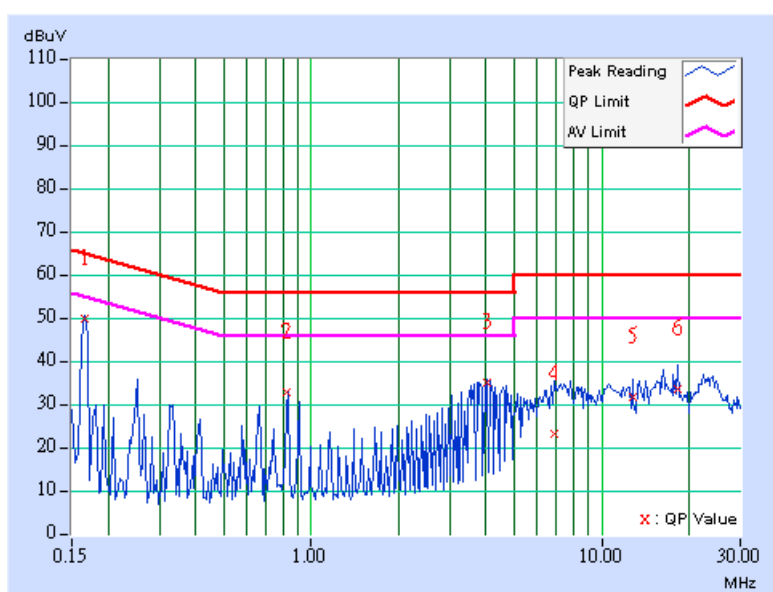
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	49.40	-	49.50	-	65.18	55.18	-15.68	-
2	0.827	0.10	32.21	-	32.31	-	56.00	46.00	-23.69	-
3	4.054	0.37	34.42	-	34.79	-	56.00	46.00	-21.21	-
4	6.859	0.41	22.84	-	23.25	-	60.00	50.00	-36.75	-
5	12.809	0.50	31.41	-	31.91	-	60.00	50.00	-28.09	-
6	18.180	0.59	33.29	-	33.88	-	60.00	50.00	-26.12	-

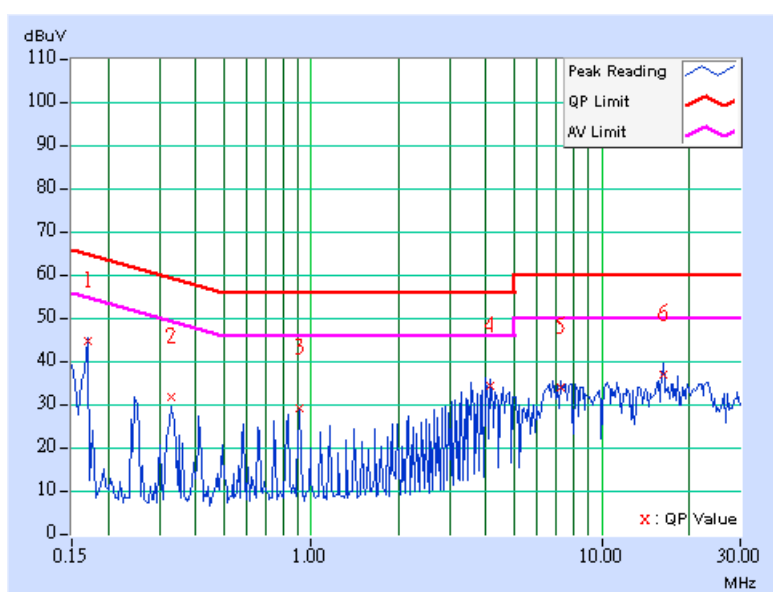
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	44.04	-	44.14	-	64.98	54.98	-20.84	-
2	0.330	0.10	31.19	-	31.29	-	59.46	49.46	-28.17	-
3	0.912	0.19	28.76	-	28.95	-	56.00	46.00	-27.05	-
4	4.141	0.47	33.76	-	34.23	-	56.00	46.00	-21.77	-
5	7.203	0.46	33.27	-	33.73	-	60.00	50.00	-26.27	-
6	16.227	0.68	36.23	-	36.91	-	60.00	50.00	-23.09	-

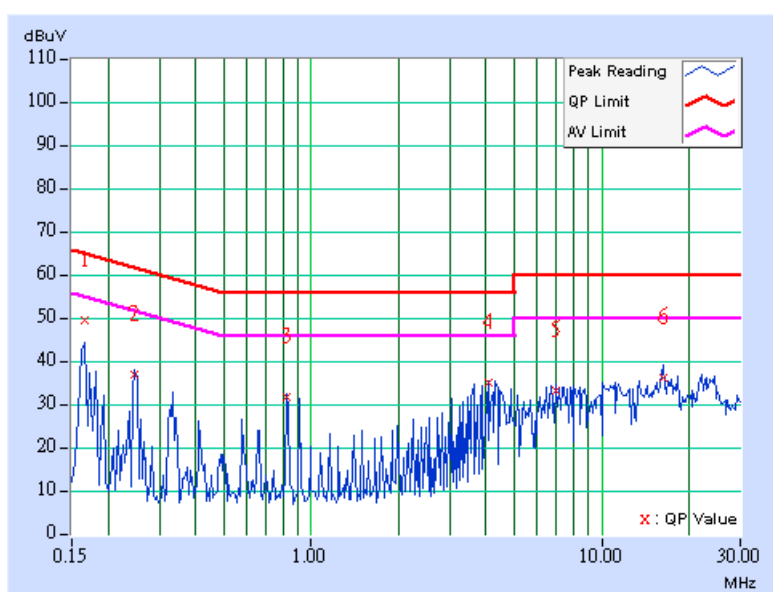
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	48.89	-	48.99	-	65.18	55.18	-16.19	-
2	0.248	0.10	36.38	-	36.48	-	61.84	51.84	-25.36	-
3	0.826	0.10	31.35	-	31.45	-	56.00	46.00	-24.55	-
4	4.059	0.37	34.58	-	34.95	-	56.00	46.00	-21.05	-
5	6.957	0.41	32.86	-	33.27	-	60.00	50.00	-26.73	-
6	16.230	0.55	35.77	-	36.32	-	60.00	50.00	-23.68	-

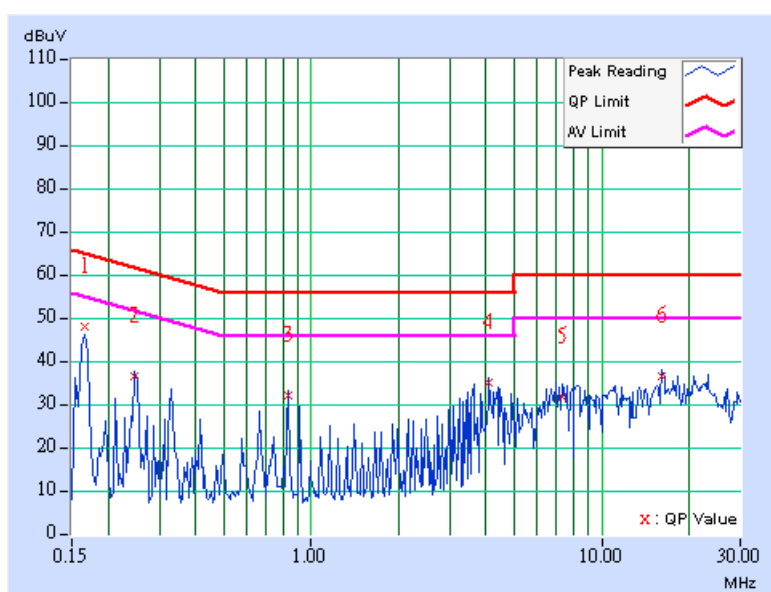
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	47.29	-	47.39	-	65.18	55.18	-17.79	-
2	0.248	0.10	35.92	-	36.02	-	61.84	51.84	-25.82	-
3	0.830	0.17	31.71	-	31.88	-	56.00	46.00	-24.12	-
4	4.063	0.47	34.54	-	35.01	-	56.00	46.00	-20.99	-
5	7.293	0.46	31.36	-	31.82	-	60.00	50.00	-28.18	-
6	16.168	0.68	35.85	-	36.53	-	60.00	50.00	-23.47	-

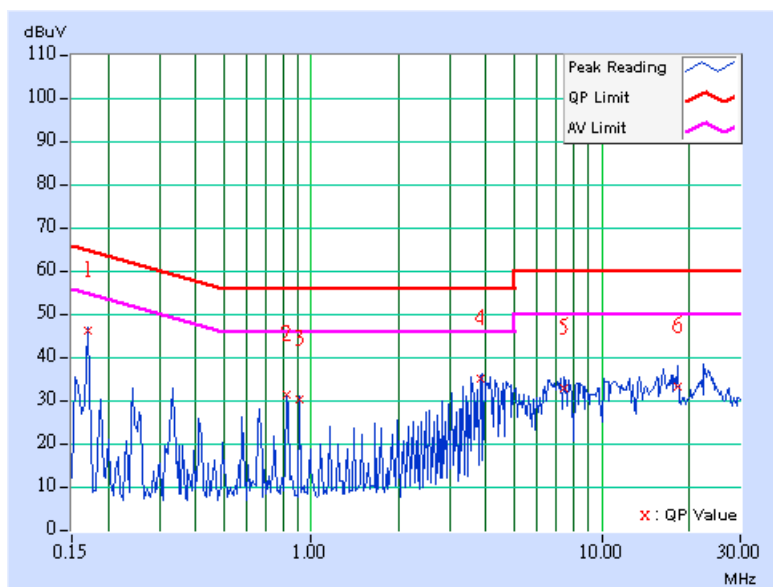
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	45.55	-	45.65	-	64.98	54.98	-19.33	-
2	0.826	0.10	30.99	-	31.09	-	56.00	46.00	-24.91	-
3	0.912	0.10	29.62	-	29.72	-	56.00	46.00	-26.28	-
4	3.813	0.35	34.57	-	34.92	-	56.00	46.00	-21.08	-
5	7.375	0.42	32.31	-	32.73	-	60.00	50.00	-27.27	-
6	18.180	0.59	32.88	-	33.47	-	60.00	50.00	-26.53	-

- 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.

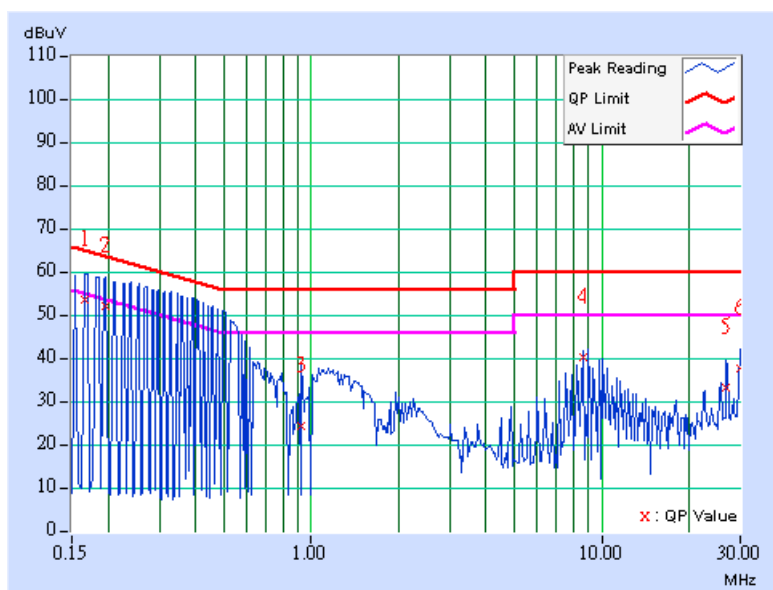


**DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:
FOR TEST MODE A: POWER FROM AC ADAPTER**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	52.22	-	52.32	-	65.18	55.18	-12.86	-
2	0.197	0.10	51.05	-	51.15	-	63.75	53.75	-12.60	-
3	0.927	0.19	23.22	-	23.41	-	56.00	46.00	-32.59	-
4	8.621	0.46	39.15	-	39.61	-	60.00	50.00	-20.39	-
5	26.879	1.14	32.05	-	33.19	-	60.00	50.00	-26.81	-
6	29.832	1.32	36.29	-	37.61	-	60.00	50.00	-22.39	-

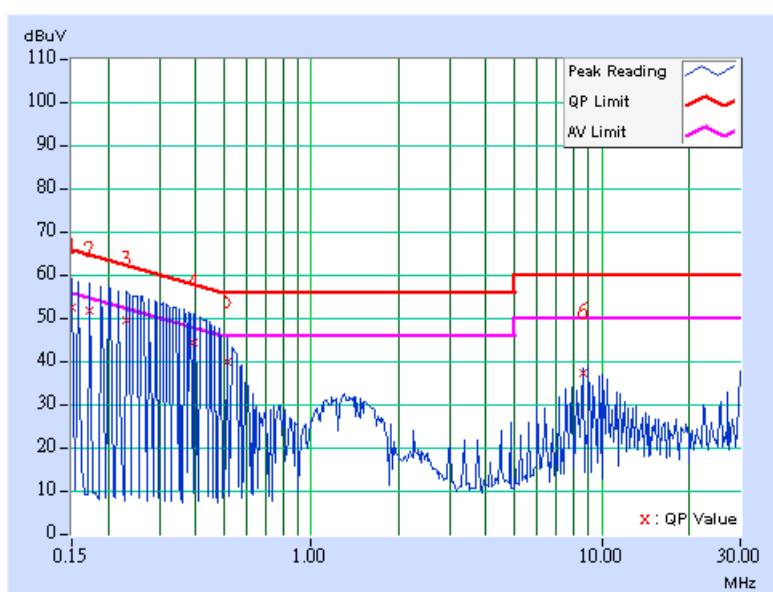
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = 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	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	52.05	-	52.15	-	66.00	56.00	-13.85	-
2	0.173	0.10	51.45	-	51.55	-	64.79	54.79	-13.24	-
3	0.232	0.10	49.14	-	49.24	-	62.38	52.38	-13.14	-
4	0.396	0.10	44.13	-	44.23	-	57.93	47.93	-13.70	-
5	0.513	0.10	39.49	-	39.59	-	56.00	46.00	-16.41	-
6	8.621	0.44	36.87	-	37.31	-	60.00	50.00	-22.69	-

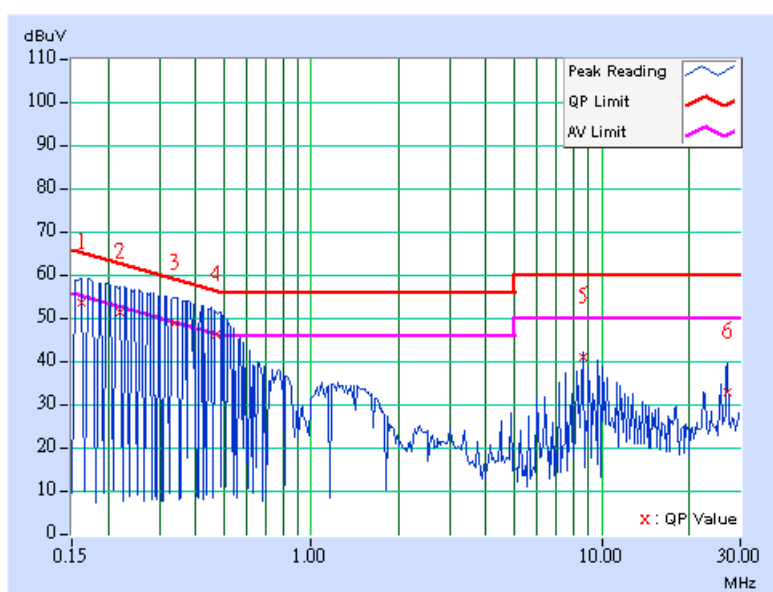
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	52.38	-	52.48	-	65.38	55.38	-12.90	-
2	0.220	0.10	50.46	-	50.56	-	62.81	52.81	-12.25	-
3	0.338	0.10	47.87	-	47.97	-	59.26	49.26	-11.29	-
4	0.470	0.11	45.14	-	45.25	-	56.51	46.51	-11.26	-
5	8.621	0.46	39.96	-	40.42	-	60.00	50.00	-19.58	-
6	27.180	1.16	31.69	-	32.85	-	60.00	50.00	-27.15	-

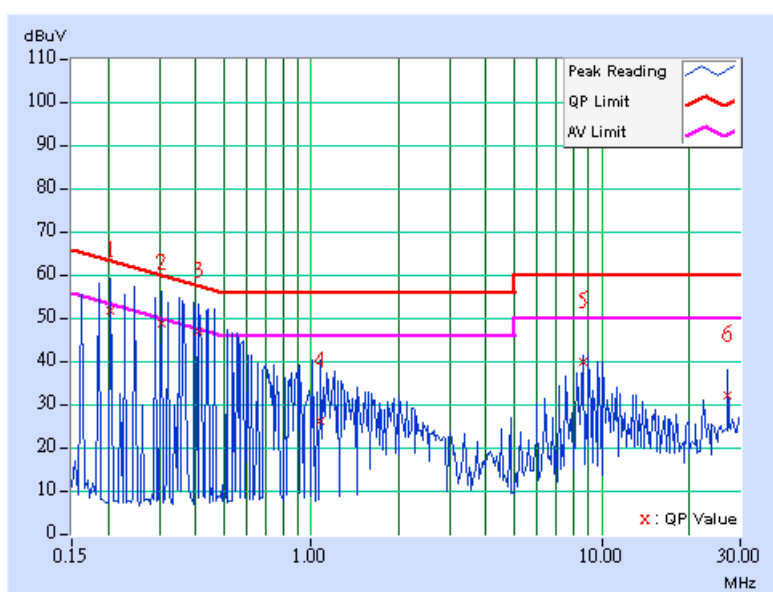
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.205	0.10	51.27	-	51.37	-	63.42	53.42	-12.05	-
2	0.306	0.10	48.23	-	48.33	-	60.07	50.07	-11.74	-
3	0.412	0.10	46.58	-	46.68	-	57.61	47.61	-10.93	-
4	1.070	0.11	25.83	-	25.94	-	56.00	46.00	-30.06	-
5	8.617	0.44	39.26	-	39.70	-	60.00	50.00	-20.30	-
6	27.242	0.63	31.66	-	32.29	-	60.00	50.00	-27.71	-

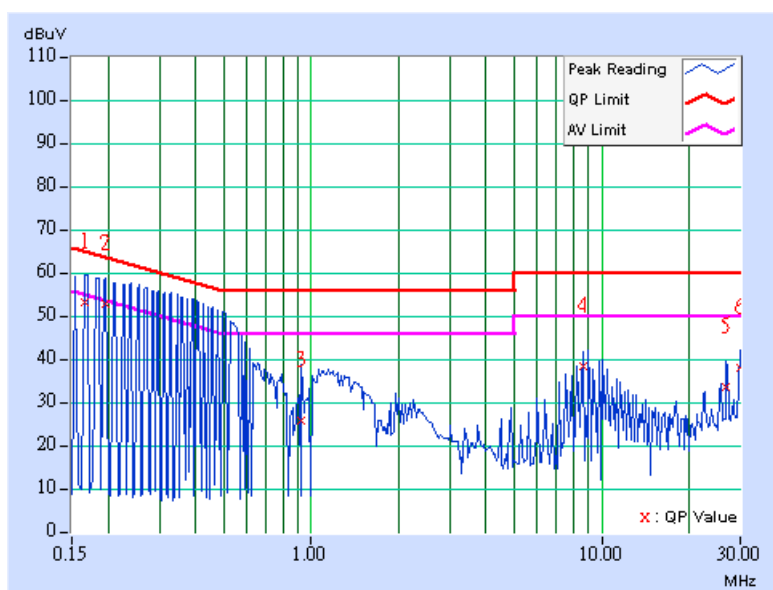
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 7	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	52.00	-	52.10	-	65.18	55.18	-13.08	-
2	0.197	0.10	51.55	-	51.65	-	63.75	53.75	-12.10	-
3	0.927	0.19	24.55	-	24.74	-	56.00	46.00	-31.26	-
4	8.621	0.46	37.20	-	37.66	-	60.00	50.00	-22.34	-
5	26.879	1.14	32.25	-	33.39	-	60.00	50.00	-26.61	-
6	29.832	1.32	36.88	-	38.20	-	60.00	50.00	-21.80	-

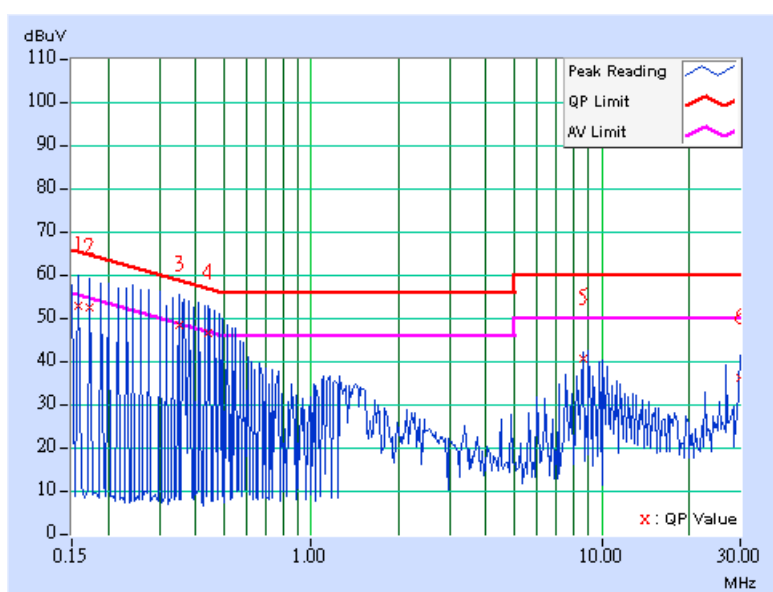
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 7	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	52.32	-	52.42	-	65.58	55.58	-13.16	-
2	0.173	0.10	51.95	-	52.05	-	64.79	54.79	-12.74	-
3	0.349	0.10	47.74	-	47.84	-	58.98	48.98	-11.14	-
4	0.443	0.10	45.90	-	46.00	-	57.01	47.01	-11.01	-
5	8.621	0.44	40.15	-	40.59	-	60.00	50.00	-19.41	-
6	29.836	0.63	35.83	-	36.46	-	60.00	50.00	-23.54	-

- 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.

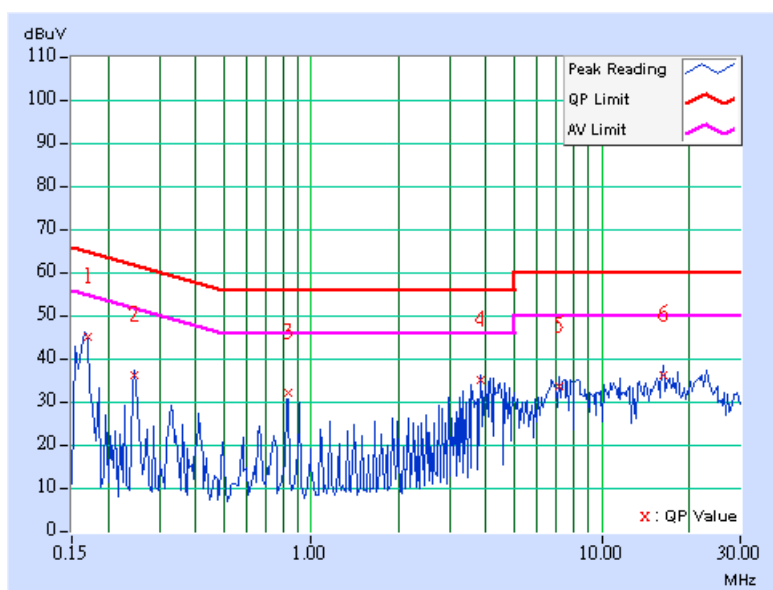


FOR TEST MODE B: POWER FROM POE

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	44.34	-	44.44	-	64.98	54.98	-20.54	-
2	0.248	0.10	35.76	-	35.86	-	61.84	51.84	-25.98	-
3	0.830	0.17	31.69	-	31.86	-	56.00	46.00	-24.14	-
4	3.816	0.45	34.55	-	35.00	-	56.00	46.00	-21.00	-
5	7.133	0.46	32.92	-	33.38	-	60.00	50.00	-26.62	-
6	16.227	0.68	35.73	-	36.41	-	60.00	50.00	-23.59	-

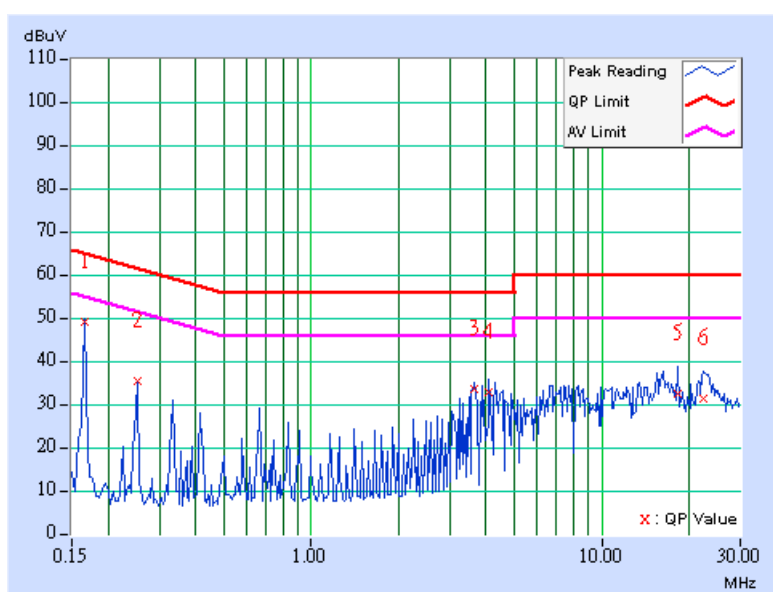
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	48.47	-	48.57	-	65.18	55.18	-16.61	-
2	0.252	0.10	34.83	-	34.93	-	61.71	51.71	-26.78	-
3	3.652	0.34	33.17	-	33.51	-	56.00	46.00	-22.49	-
4	4.063	0.37	32.41	-	32.78	-	56.00	46.00	-23.22	-
5	18.172	0.59	31.84	-	32.43	-	60.00	50.00	-27.57	-
6	22.484	0.63	30.95	-	31.58	-	60.00	50.00	-28.42	-

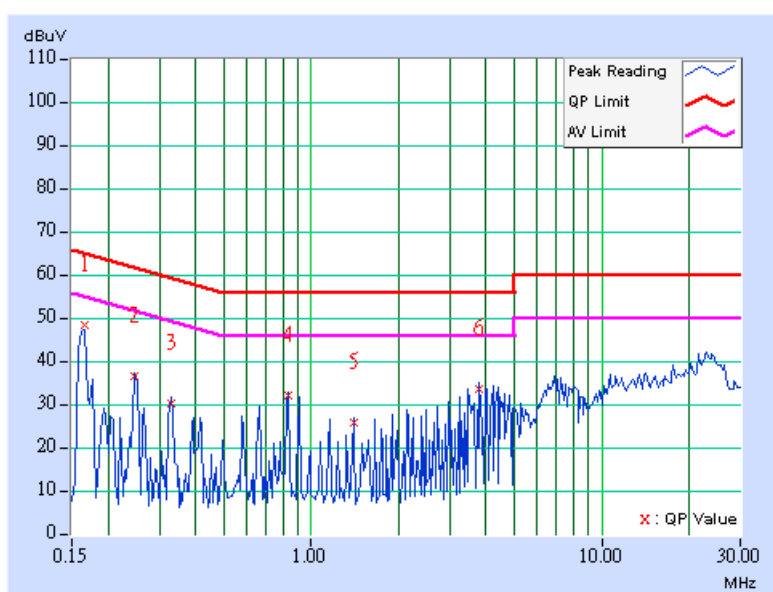
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 4	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	48.13	-	48.23	-	65.18	55.18	-16.95	-
2	0.248	0.10	36.18	-	36.28	-	61.84	51.84	-25.56	-
3	0.330	0.10	29.95	-	30.05	-	59.46	49.46	-29.41	-
4	0.830	0.17	31.65	-	31.82	-	56.00	46.00	-24.18	-
5	1.406	0.20	25.60	-	25.80	-	56.00	46.00	-30.20	-
6	3.805	0.44	33.18	-	33.62	-	56.00	46.00	-22.38	-

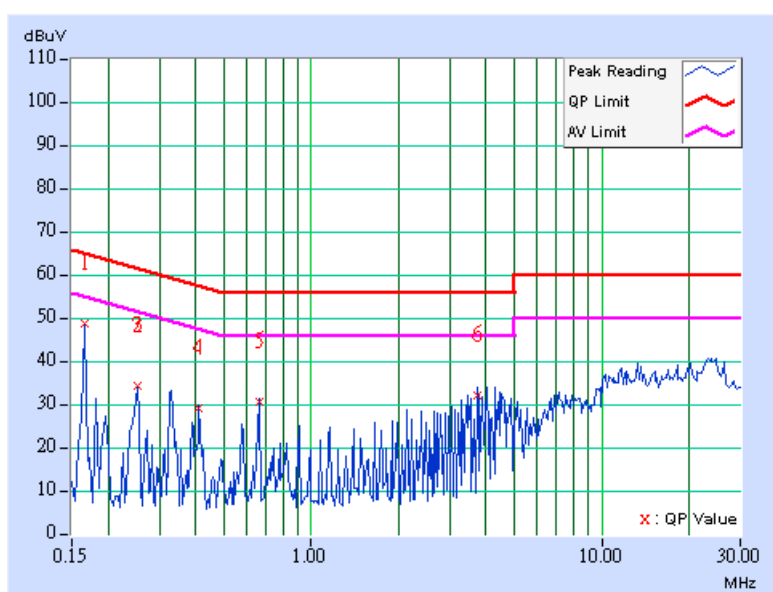
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 4	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	48.67	-	48.77	-	65.18	55.18	-16.41	-
2	0.252	0.10	34.26	-	34.36	-	61.71	51.71	-27.35	-
3	0.252	0.10	34.28	-	34.38	-	61.71	51.71	-27.33	-
4	0.412	0.10	28.93	-	29.03	-	57.61	47.61	-28.58	-
5	0.662	0.10	30.50	-	30.60	-	56.00	46.00	-25.40	-
6	3.717	0.35	32.00	-	32.35	-	56.00	46.00	-23.65	-

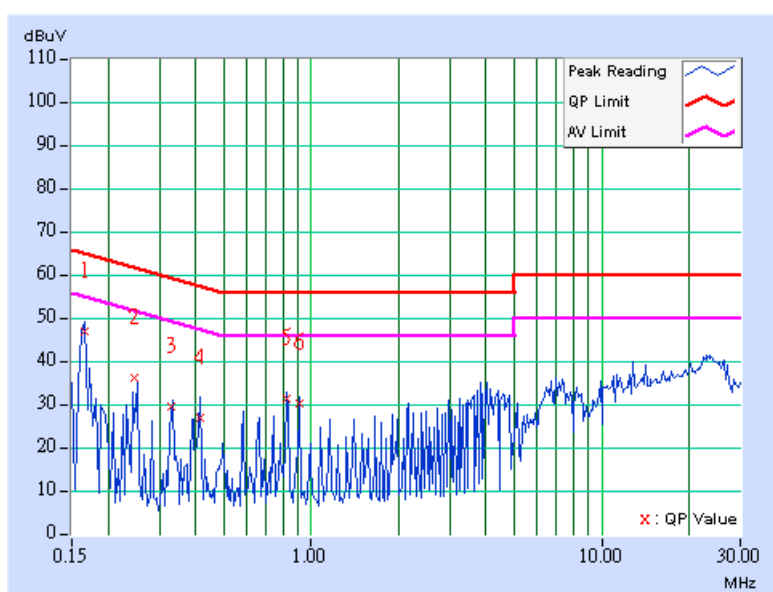
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	46.95	-	47.05	-	65.18	55.18	-18.13	-
2	0.248	0.10	36.03	-	36.13	-	61.83	51.83	-25.70	-
3	0.332	0.10	29.52	-	29.62	-	59.41	49.41	-29.79	-
4	0.416	0.10	26.89	-	26.99	-	57.54	47.54	-30.54	-
5	0.826	0.17	31.37	-	31.54	-	56.00	46.00	-24.46	-
6	0.912	0.19	30.36	-	30.55	-	56.00	46.00	-25.45	-

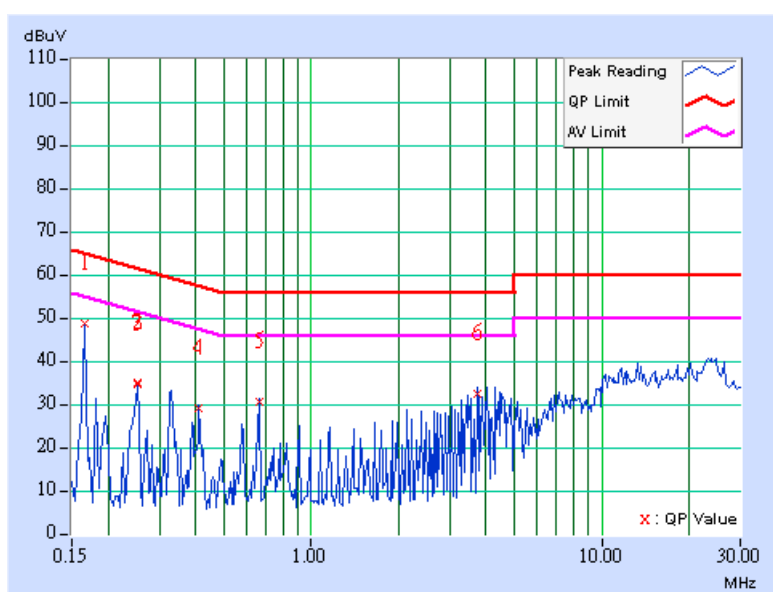
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	48.55	-	48.65	-	65.18	55.18	-16.53	-
2	0.252	0.10	34.88	-	34.98	-	61.71	51.71	-26.73	-
3	0.252	0.10	34.33	-	34.43	-	61.71	51.71	-27.28	-
4	0.412	0.10	28.88	-	28.98	-	57.61	47.61	-28.63	-
5	0.662	0.10	30.45	-	30.55	-	56.00	46.00	-25.45	-
6	3.717	0.35	32.18	-	32.53	-	56.00	46.00	-23.47	-

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

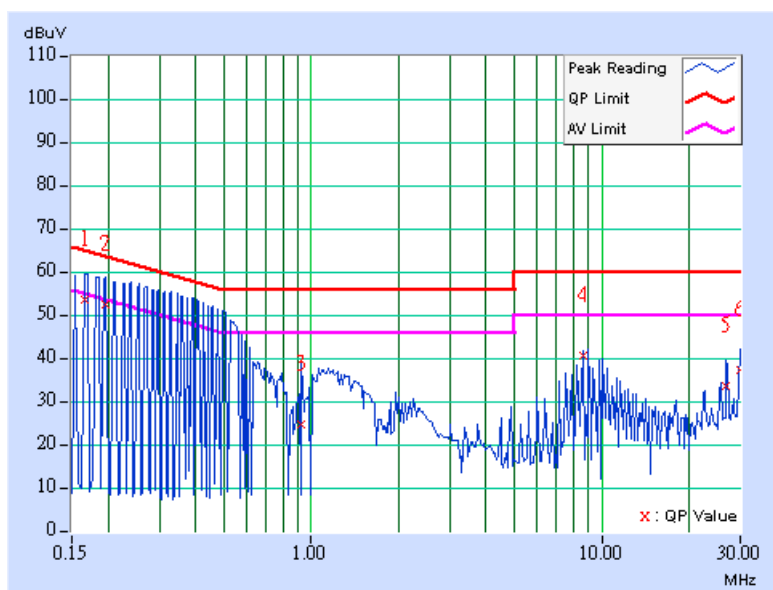


**802.11b (CB mode) DSSS MODULATION: DUAL TX:
FOR TEST MODE A: POWER FROM AC ADAPTER**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	52.31	-	52.41	-	65.18	55.18	-12.77	-
2	0.197	0.10	51.11	-	51.21	-	63.74	53.74	-12.53	-
3	0.927	0.19	23.37	-	23.56	-	56.00	46.00	-32.44	-
4	8.621	0.46	39.45	-	39.91	-	60.00	50.00	-20.09	-
5	26.879	1.14	32.35	-	33.49	-	60.00	50.00	-26.51	-
6	29.832	1.32	36.09	-	37.41	-	60.00	50.00	-22.59	-

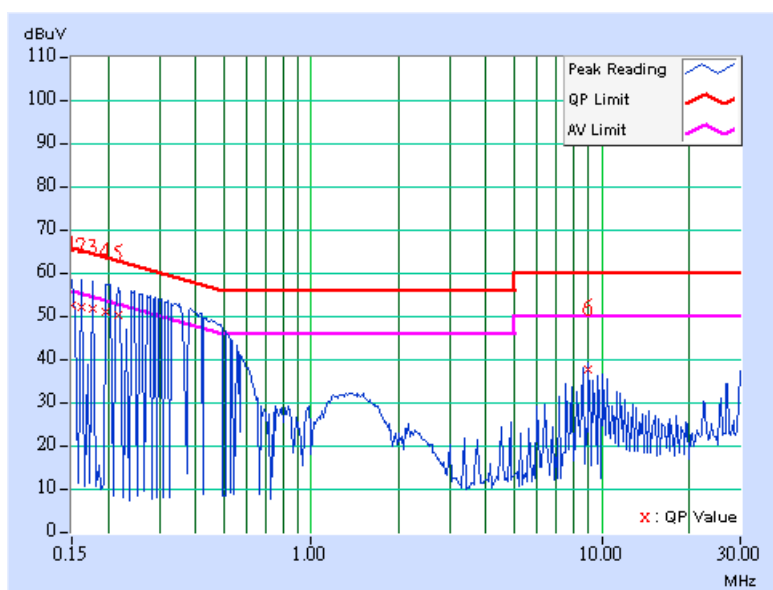
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	52.01	-	52.11	-	66.00	56.00	-13.89	-
2	0.162	0.10	51.80	-	51.90	-	65.38	55.38	-13.48	-
3	0.177	0.10	51.33	-	51.43	-	64.61	54.61	-13.18	-
4	0.197	0.10	50.50	-	50.60	-	63.74	53.74	-13.14	-
5	0.216	0.10	49.81	-	49.91	-	62.96	52.96	-13.05	-
6	8.996	0.44	37.44	-	37.88	-	60.00	50.00	-22.12	-

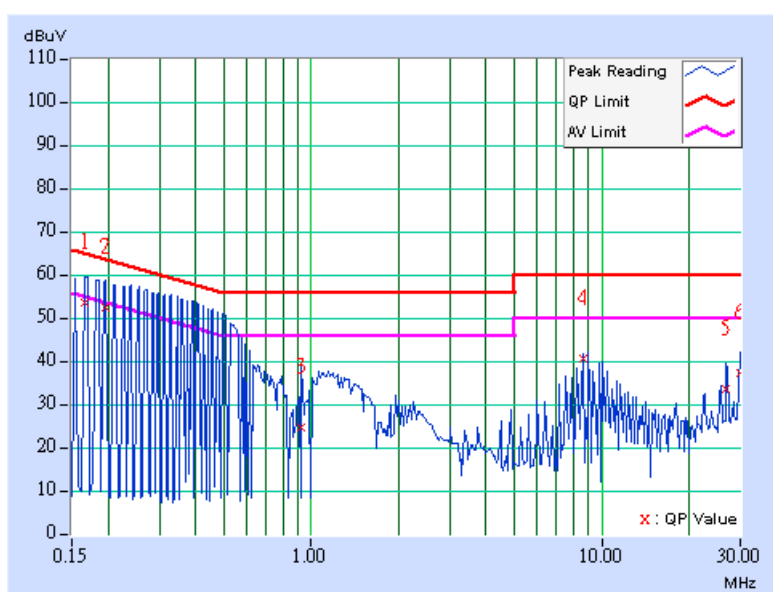
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = 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 4	PHASE	Line 1
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	52.38	-	52.48	-	65.18	55.18	-12.70	-
2	0.197	0.10	51.25	-	51.35	-	63.75	53.75	-12.40	-
3	0.927	0.19	23.45	-	23.64	-	56.00	46.00	-32.36	-
4	8.621	0.46	39.59	-	40.05	-	60.00	50.00	-19.95	-
5	26.879	1.14	32.42	-	33.56	-	60.00	50.00	-26.44	-
6	29.832	1.32	36.18	-	37.50	-	60.00	50.00	-22.50	-

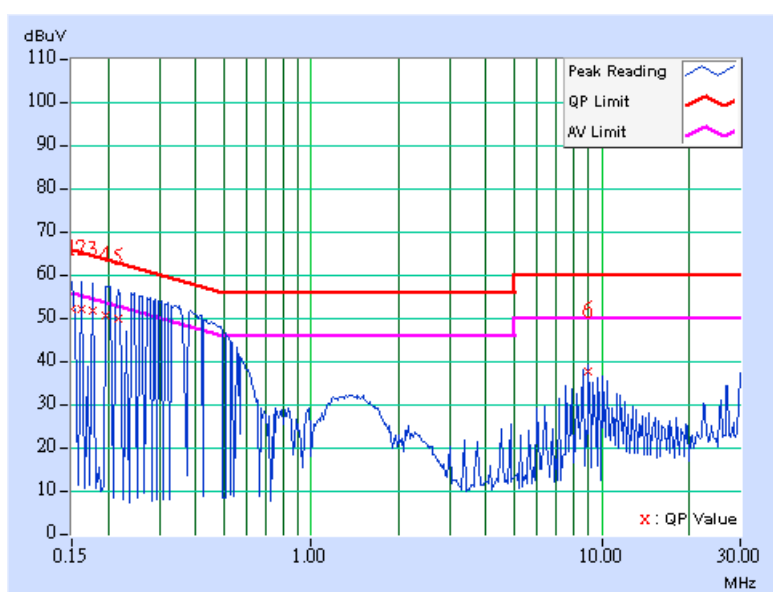
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	51.75	-	51.85	-	66.00	56.00	-14.15	-
2	0.162	0.10	51.71	-	51.81	-	65.37	55.37	-13.56	-
3	0.177	0.10	51.25	-	51.35	-	64.61	54.61	-13.26	-
4	0.197	0.10	50.41	-	50.51	-	63.74	53.74	-13.23	-
5	0.216	0.10	49.72	-	49.82	-	62.95	52.95	-13.13	-
6	8.996	0.44	37.32	-	37.76	-	60.00	50.00	-22.24	-

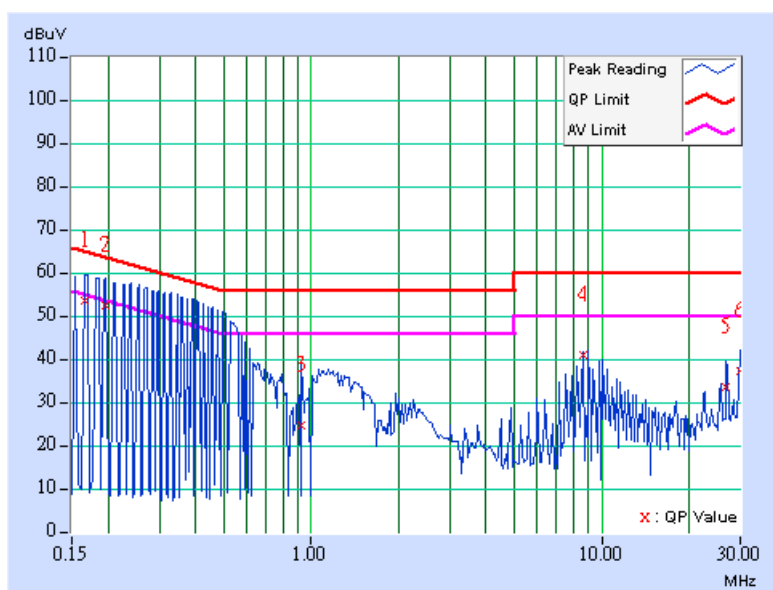
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 1
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	52.42	-	52.52	-	65.18	55.18	-12.66	-
2	0.197	0.10	51.32	-	51.42	-	63.74	53.74	-12.32	-
3	0.927	0.19	23.58	-	23.77	-	56.00	46.00	-32.23	-
4	8.621	0.46	39.63	-	40.09	-	60.00	50.00	-19.91	-
5	26.879	1.14	32.50	-	33.64	-	60.00	50.00	-26.36	-
6	29.832	1.32	36.21	-	37.53	-	60.00	50.00	-22.47	-

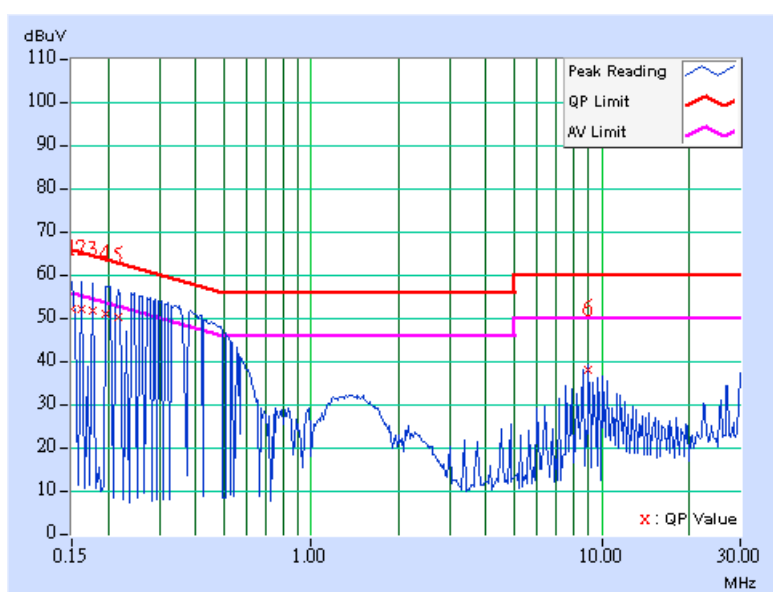
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	A
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	51.88	-	51.98	-	66.00	56.00	-14.02	-
2	0.162	0.10	51.79	-	51.89	-	65.38	55.38	-13.49	-
3	0.177	0.10	51.33	-	51.43	-	64.61	54.61	-13.18	-
4	0.197	0.10	50.55	-	50.65	-	63.75	53.75	-13.10	-
5	0.216	0.10	49.85	-	49.95	-	62.96	52.96	-13.01	-
6	8.996	0.44	37.56	-	38.00	-	60.00	50.00	-22.00	-

- 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.

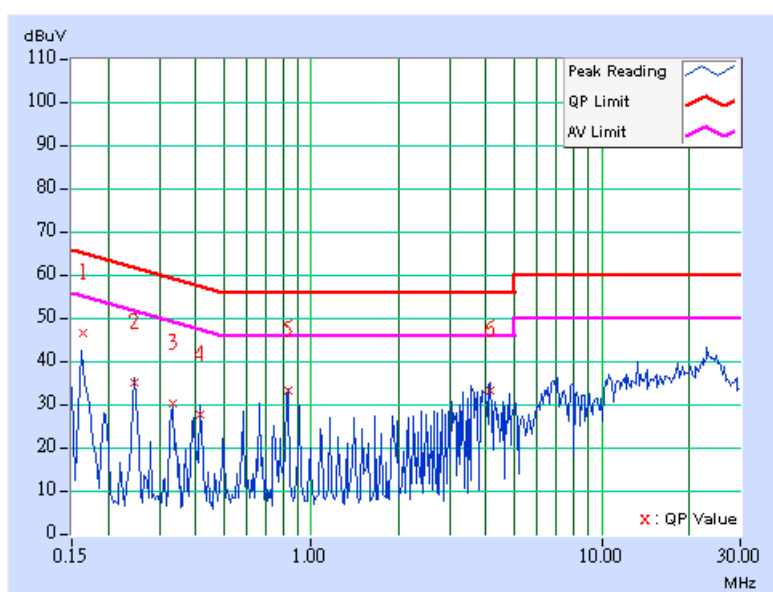


FOR TEST MODE B: POWER FROM POE

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.163	0.10	46.07	-	46.17	-	65.29	55.29	-19.12	-
2	0.248	0.10	34.85	-	34.95	-	61.84	51.84	-26.89	-
3	0.334	0.10	29.92	-	30.02	-	59.36	49.36	-29.34	-
4	0.416	0.10	27.34	-	27.44	-	57.54	47.54	-30.09	-
5	0.830	0.17	32.73	-	32.90	-	56.00	46.00	-23.10	-
6	4.148	0.47	32.77	-	33.24	-	56.00	46.00	-22.76	-

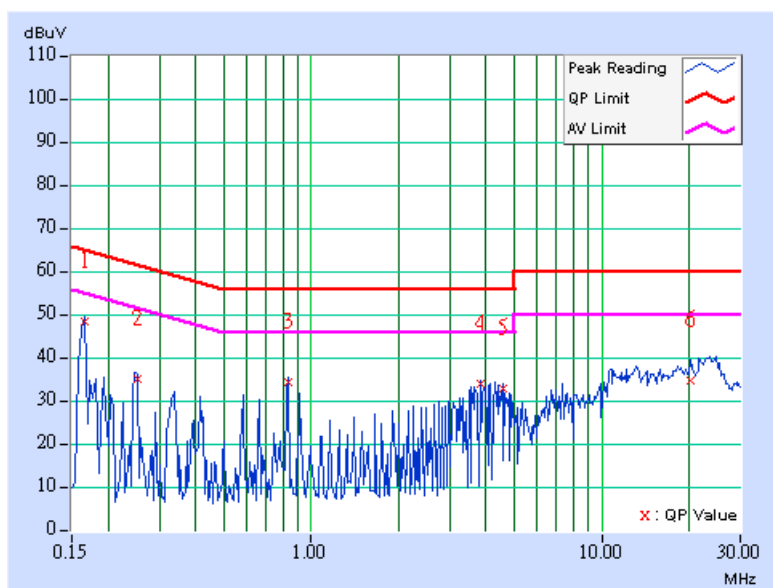
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = 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	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	48.03	-	48.13	-	65.18	55.18	-17.05	-
2	0.252	0.10	34.50	-	34.60	-	61.71	51.71	-27.11	-
3	0.830	0.10	33.95	-	34.05	-	56.00	46.00	-21.95	-
4	3.820	0.35	33.58	-	33.93	-	56.00	46.00	-22.07	-
5	4.569	0.38	32.17	-	32.55	-	56.00	46.00	-23.45	-
6	20.266	0.63	34.29	-	34.92	-	60.00	50.00	-25.08	-

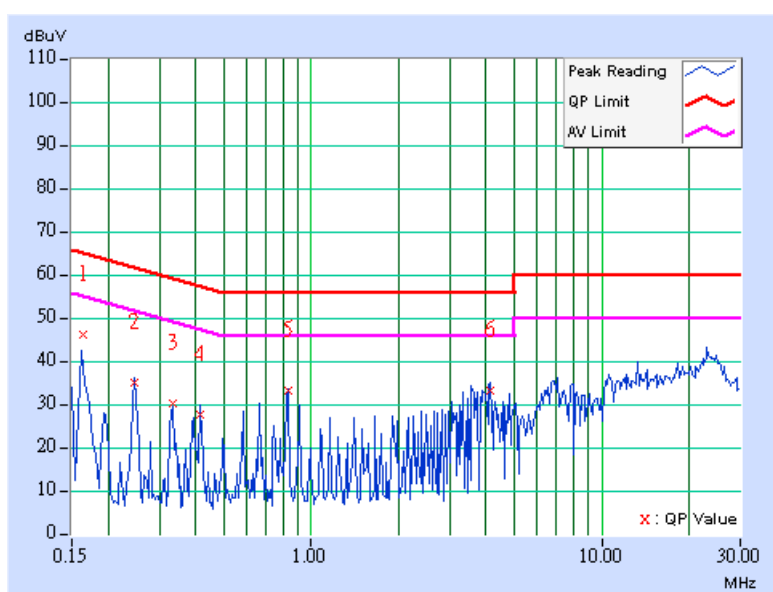
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 4	PHASE	Line 1
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.164	0.10	45.98	-	46.08	-	65.28	55.28	-19.20	-
2	0.248	0.10	34.76	-	34.86	-	61.84	51.84	-26.98	-
3	0.333	0.10	29.89	-	29.99	-	59.36	49.36	-29.37	-
4	0.416	0.10	27.29	-	27.39	-	57.54	47.54	-30.14	-
5	0.830	0.17	32.69	-	32.86	-	56.00	46.00	-23.14	-
6	4.148	0.47	32.71	-	33.18	-	56.00	46.00	-22.82	-

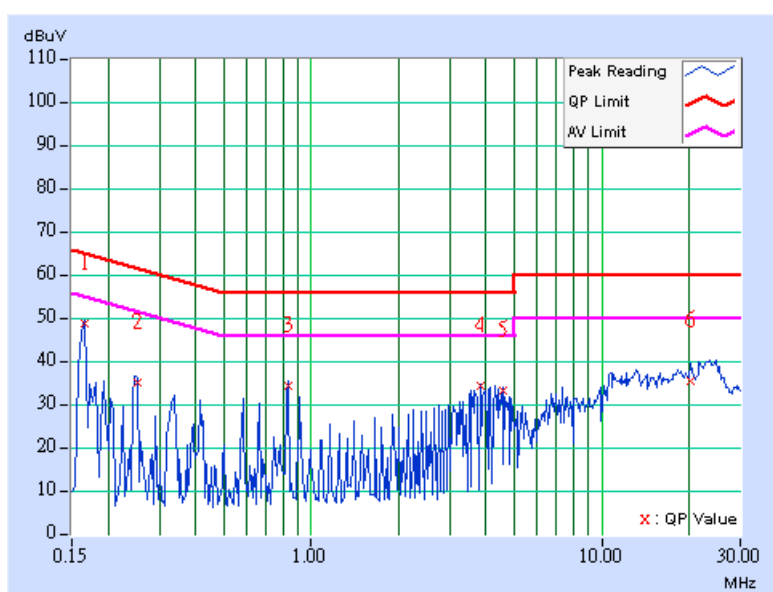
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 4	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	48.22	-	48.32	-	65.17	55.17	-16.85	-
2	0.252	0.10	34.65	-	34.75	-	61.70	51.70	-26.95	-
3	0.830	0.10	33.99	-	34.09	-	56.00	46.00	-21.91	-
4	3.820	0.35	33.85	-	34.20	-	56.00	46.00	-21.80	-
5	4.569	0.38	32.75	-	33.13	-	56.00	46.00	-22.87	-
6	20.266	0.63	34.85	-	35.48	-	60.00	50.00	-24.52	-

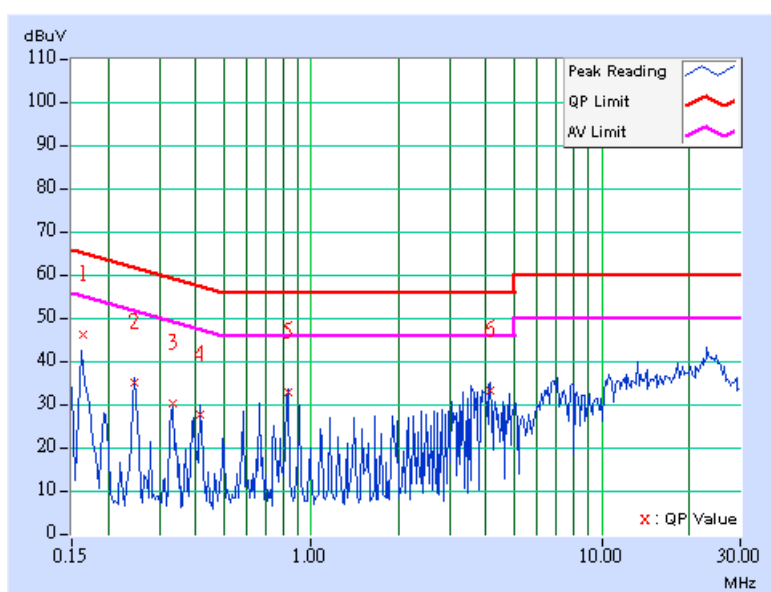
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 7	PHASE	Line 1
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.164	0.10	45.91	-	46.01	-	65.28	55.28	-19.27	-
2	0.248	0.10	34.71	-	34.81	-	61.84	51.84	-27.03	-
3	0.333	0.10	29.81	-	29.91	-	59.37	49.37	-29.46	-
4	0.415	0.10	27.21	-	27.31	-	57.54	47.54	-30.23	-
5	0.830	0.17	32.61	-	32.78	-	56.00	46.00	-23.22	-
6	4.149	0.47	32.68	-	33.15	-	56.00	46.00	-22.85	-

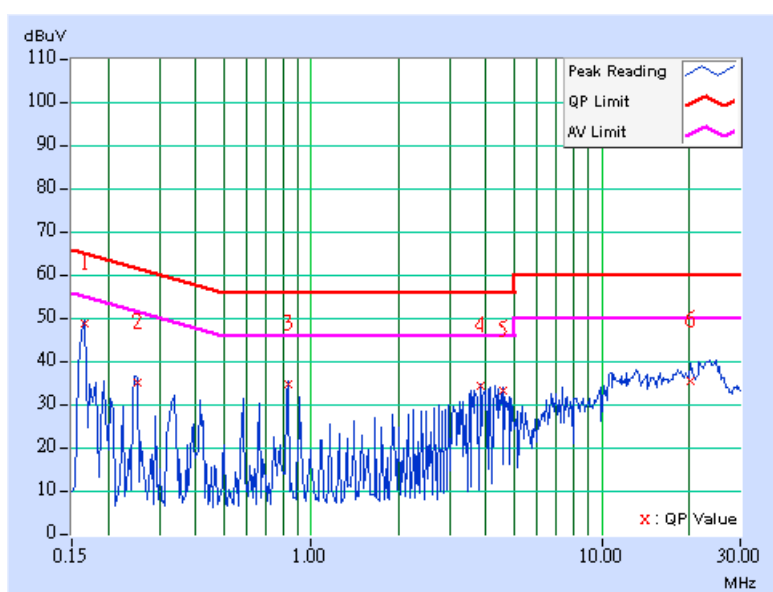
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH, 991hPa	TEST MODE	B
TESTED BY	Morgan Chen		

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	48.29	-	48.39	-	65.18	55.18	-16.79	-
2	0.251	0.10	34.69	-	34.79	-	61.71	51.71	-26.92	-
3	0.830	0.10	34.11	-	34.21	-	56.00	46.00	-21.79	-
4	3.821	0.35	33.95	-	34.30	-	56.00	46.00	-21.70	-
5	4.569	0.38	32.85	-	33.23	-	56.00	46.00	-22.77	-
6	20.266	0.63	34.89	-	35.52	-	60.00	50.00	-24.48	-

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



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400 / F(kHz)	300
0.490 ~ 1.705	24000 / F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Jan. 01, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Dec. 04, 2006
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 15, 2007
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-404	Jan. 01, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 19, 2007
Preamplifier Agilent	8449B	3008A01960	Nov. 09, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219268/4	Dec. 20, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	230129/4	Dec. 20, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

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

4.2.3 TEST PROCEDURES

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

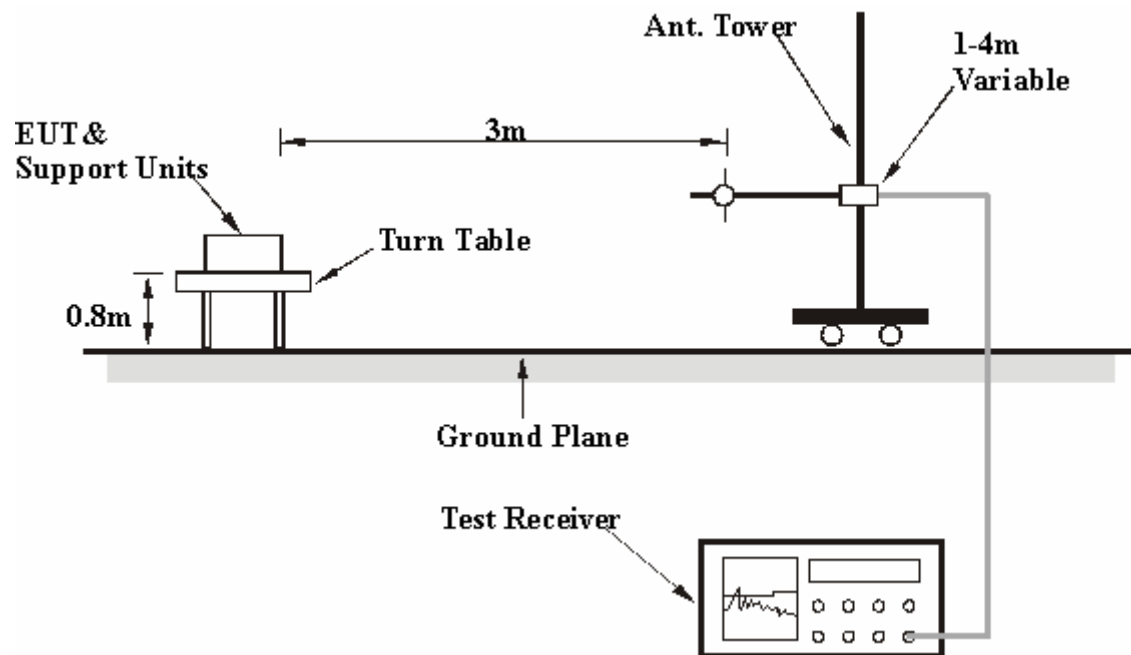
NOTE:

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6.

4.2.7 TEST RESULTS

**BELOW 1GHz WORST-CASE DATA: 802.11g OFDM MODULATION: DUAL TX:
FOR TEST MODE A: POWER FROM AC ADAPTER**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH, 991hPa	TEST MODE	A
TESTED BY	Brad Wu		

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	199.12	35.87 QP	43.50	-7.63	1.25 H	217	25.06	10.81
2	239.94	42.61 QP	46.00	-3.39	1.25 H	289	30.51	12.10
3	325.47	39.38 QP	46.00	-6.62	1.00 H	274	23.60	15.78
4	700.64	41.27 QP	46.00	-4.73	1.25 H	343	17.11	24.16
5	725.91	40.54 QP	46.00	-5.46	1.00 H	325	15.55	24.99
6	799.78	41.91 QP	46.00	-4.09	1.00 H	127	15.81	26.11

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	47.49	35.02 QP	40.00	-4.98	1.00 V	22	20.24	14.78
2	199.12	42.26 QP	43.50	-1.24	1.00 V	121	31.45	10.81
3	239.94	39.69 QP	46.00	-6.31	1.50 V	256	27.59	12.10
4	325.47	38.36 QP	46.00	-7.64	1.25 V	190	22.58	15.78
5	444.05	41.08 QP	46.00	-4.92	1.00 V	22	22.49	18.59
6	799.78	40.60 QP	46.00	-5.40	1.00 V	226	14.50	26.11

REMARKS:

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

FOR TEST MODE B: POWER FROM POE

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH, 991hPa	TEST MODE	B
TESTED BY	Brad Wu		

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	164.13	39.07 QP	43.50	-4.43	1.25 H	142	26.10	12.97
2	239.94	44.15 QP	46.00	-1.85	1.25 H	109	32.05	12.10
3	325.47	38.50 QP	46.00	-7.50	1.00 H	223	22.72	15.78
4	700.64	42.55 QP	46.00	-3.45	1.50 H	70	18.39	24.16
5	725.91	39.61 QP	46.00	-6.39	1.00 H	217	14.61	24.99
6	799.78	41.15 QP	46.00	-4.85	1.00 H	100	15.05	26.11

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.38	38.86 QP	40.00	-1.14	1.00 V	58	24.63	14.23
2	76.65	38.81 QP	40.00	-1.19	1.00 V	184	27.94	10.87
3	199.12	40.67 QP	43.50	-2.83	1.25 V	244	29.86	10.81
4	479.04	38.97 QP	46.00	-7.03	1.00 V	121	19.55	19.42
5	799.78	41.43 QP	46.00	-4.57	1.00 V	187	15.33	26.11
6	900.86	40.44 QP	46.00	-5.56	1.25 V	55	12.95	27.49

REMARKS:

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

DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

FOR TEST MODE A: POWER FROM AC ADAPTER

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 63%RH, 991hPa	TEST MODE	A
TESTED BY	Brad Wu		

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	239.94	41.89 QP	46.00	-4.11	1.25 H	157	29.79	12.10
2	319.64	39.63 QP	46.00	-6.37	1.00 H	169	23.93	15.70
3	399.34	35.06 QP	46.00	-10.94	1.00 H	244	17.28	17.78
4	700.64	41.42 QP	46.00	-4.58	1.50 H	73	17.26	24.16
5	725.91	40.71 QP	46.00	-5.29	1.00 H	85	15.71	24.99
6	799.78	41.84 QP	46.00	-4.16	1.00 H	79	15.73	26.11

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	47.49	34.76 QP	40.00	-5.24	1.25 V	163	19.98	14.78
2	199.12	40.85 QP	43.50	-2.65	1.00 V	223	30.04	10.81
3	325.47	36.66 QP	46.00	-9.34	1.25 V	178	20.88	15.78
4	479.04	39.93 QP	46.00	-6.07	1.00 V	175	20.51	19.42
5	700.64	35.92 QP	46.00	-10.08	1.50 V	115	11.76	24.16
6	799.78	38.36 QP	46.00	-7.64	1.00 V	178	12.25	26.11

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

FOR TEST MODE B: POWER FROM POE

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 63%RH, 991hPa	TEST MODE	B
TESTED BY	Brad Wu		

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	239.94	42.23 QP	46.00	-3.77	1.25 H	55	30.13	12.10
2	319.64	39.76 QP	46.00	-6.24	1.00 H	202	24.06	15.70
3	399.34	35.52 QP	46.00	-10.48	1.00 H	238	17.75	17.78
4	700.64	41.25 QP	46.00	-4.75	1.25 H	244	17.09	24.16
5	799.78	42.53 QP	46.00	-3.47	1.50 H	124	16.42	26.11
6	825.05	38.45 QP	46.00	-7.55	1.00 H	247	12.03	26.43

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.38	38.49 QP	40.00	-1.51	1.25 V	172	24.26	14.23
2	78.60	38.83 QP	40.00	-1.17	1.00 V	22	28.18	10.65
3	199.12	41.73 QP	43.50	-1.77	1.25 V	22	30.92	10.81
4	479.04	39.15 QP	46.00	-6.85	1.00 V	109	19.73	19.42
5	725.91	37.92 QP	46.00	-8.08	1.50 V	337	12.93	24.99
6	799.78	38.70 QP	46.00	-7.30	1.00 V	163	12.59	26.11

REMARKS:

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

DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

FOR TEST MODE A: POWER FROM AC ADAPTER

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for draft 802.11n (40MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 63%RH, 991hPa	TEST MODE	A
TESTED BY	Brad Wu		

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	239.94	42.05 QP	46.00	-3.95	1.25 H	49	29.95	12.10
2	325.47	39.03 QP	46.00	-6.97	1.25 H	247	23.25	15.78
3	399.34	34.56 QP	46.00	-11.44	1.00 H	37	16.78	17.78
4	700.64	41.01 QP	46.00	-4.99	1.50 H	70	16.85	24.16
5	725.91	40.45 QP	46.00	-5.55	1.00 H	91	15.46	24.99
6	799.78	42.07 QP	46.00	-3.93	1.00 H	145	15.96	26.11

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	47.49	35.13 QP	40.00	-4.87	1.50 V	295	20.35	14.78
2	199.12	41.24 QP	43.50	-2.26	1.00 V	127	30.43	10.81
3	224.39	38.60 QP	46.00	-7.40	1.25 V	142	27.02	11.58
4	325.47	36.41 QP	46.00	-9.59	1.00 V	193	20.63	15.78
5	479.04	39.95 QP	46.00	-6.05	1.50 V	178	20.53	19.42
6	799.78	38.93 QP	46.00	-7.07	1.00 V	166	12.82	26.11

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

FOR TEST MODE B: POWER FROM POE

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for draft 802.11n (40MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 63%RH, 991hPa	TEST MODE	B
TESTED BY	Brad Wu		

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	239.94	41.66 QP	46.00	-4.34	1.50 H	31	29.56	12.10
2	278.82	41.36 QP	46.00	-4.64	1.00 H	97	26.86	14.50
3	319.64	39.57 QP	46.00	-6.43	1.25 H	187	23.87	15.70
4	700.64	41.17 QP	46.00	-4.83	1.25 H	265	17.01	24.16
5	799.78	42.96 QP	46.00	-3.04	1.00 H	76	16.85	26.11
6	825.05	38.72 QP	46.00	-7.28	1.00 H	253	12.29	26.43

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.38	38.43 QP	40.00	-1.57	1.25 V	22	24.20	14.23
2	76.65	38.50 QP	40.00	-1.50	1.50 V	103	27.63	10.87
3	199.12	41.02 QP	43.50	-2.48	1.00 V	142	30.22	10.81
4	325.47	37.74 QP	46.00	-8.26	1.00 V	193	21.97	15.78
5	479.04	39.14 QP	46.00	-6.86	1.00 V	109	19.72	19.42
6	799.78	39.60 QP	46.00	-6.40	1.50 V	175	13.49	26.11

REMARKS:

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

802.11b(CB mode) DSSS MODULATION: DUAL TX:

FOR TEST MODE A: POWER FROM AC ADAPTER

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TEST MODE	A
TESTED BY	Brad Wu		

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	239.94	42.23 QP	46.00	-3.77	1.00 H	94	30.13	12.10
2	325.47	38.78 QP	46.00	-7.22	1.50 H	259	23.00	15.78
3	399.34	34.70 QP	46.00	-11.30	1.00 H	238	16.92	17.78
4	700.64	41.35 QP	46.00	-4.65	1.50 H	133	17.19	24.16
5	725.91	40.35 QP	46.00	-5.65	1.00 H	145	15.36	24.99
6	799.78	41.62 QP	46.00	-4.38	1.00 H	61	15.52	26.11

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	47.49	35.75 QP	40.00	-4.25	1.25 V	316	20.97	14.78
2	199.12	41.84 QP	43.50	-1.66	1.00 V	13	31.03	10.81
3	325.47	36.65 QP	46.00	-9.35	1.00 V	175	20.87	15.78
4	479.04	39.81 QP	46.00	-6.19	1.25 V	163	20.39	19.42
5	700.64	35.58 QP	46.00	-10.42	1.50 V	115	11.42	24.16
6	799.78	38.77 QP	46.00	-7.23	1.00 V	166	12.66	26.11

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

FOR TEST MODE B: POWER FROM POE

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TEST MODE	B
TESTED BY	Brad Wu		

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	239.94	42.29 QP	46.00	-3.71	1.25 H	118	30.19	12.10
2	278.82	41.54 QP	46.00	-4.46	1.00 H	142	27.04	14.50
3	319.64	39.57 QP	46.00	-6.43	1.00 H	223	23.87	15.70
4	399.34	35.09 QP	46.00	-10.91	1.00 H	256	17.32	17.78
5	700.64	41.56 QP	46.00	-4.44	1.50 H	25	17.40	24.16
6	799.78	42.15 QP	46.00	-3.85	1.00 H	118	16.04	26.11

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.38	38.90 QP	40.00	-1.10	1.00 V	148	24.66	14.23
2	78.60	38.67 QP	40.00	-1.33	1.25 V	154	28.02	10.65
3	199.12	41.58 QP	43.50	-1.92	1.00 V	175	30.77	10.81
4	325.47	37.85 QP	46.00	-8.15	1.00 V	172	22.07	15.78
5	479.04	39.13 QP	46.00	-6.87	1.50 V	67	19.71	19.42
6	799.78	39.32 QP	46.00	-6.68	1.00 V	130	13.21	26.11

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

802.11b DSSS MODULATION: DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	43.25 PK	74.00	-30.75	1.12 H	249	15.09	28.16
1	1125.00	40.09 AV	54.00	-13.91	1.12 H	249	11.94	28.16
2	2386.00	50.01 PK	74.00	-23.99	1.38 H	59	17.92	32.09
2	2386.00	46.67 AV	54.00	-7.33	1.38 H	59	14.58	32.09
3	*2412.00	102.07 PK			1.38 H	59	69.89	32.18
3	*2412.00	98.73 AV			1.38 H	59	66.55	32.18
4	4824.00	51.16 PK	74.00	-22.84	1.16 H	286	12.53	38.63
4	4824.00	46.32 AV	54.00	-7.68	1.16 H	286	7.69	38.63

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	1125.00	46.67 PK	74.00	-27.33	1.05 V	275	18.52	28.16
1	1125.00	43.47 AV	54.00	-10.53	1.05 V	275	15.31	28.16
2	2386.00	61.59 PK	74.00	-12.41	1.20 V	215	29.50	32.09
2	2386.00	52.48 AV	54.00	-1.52	1.20 V	215	20.39	32.09
3	*2412.00	107.89 PK			1.18 V	7	75.71	32.18
3	*2412.00	104.54 AV			1.18 V	7	72.36	32.18
4	4824.00	55.74 PK	74.00	-18.26	1.04 V	312	17.11	38.63
4	4824.00	51.84 AV	54.00	-2.16	1.04 V	312	13.21	38.63

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. The limit value is defined as per 15.247.
6. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	43.47 PK	74.00	-30.53	1.10 H	262	15.31	28.16
1	1125.00	40.35 AV	54.00	-13.65	1.10 H	262	12.20	28.16
2	*2437.00	105.53 PK			1.40 H	62	73.26	32.27
2	*2437.00	102.24 AV			1.40 H	62	69.97	32.27
3	4874.00	52.36 PK	74.00	-21.64	1.15 H	286	13.59	38.77
3	4874.00	47.58 AV	54.00	-6.42	1.15 H	286	8.81	38.77

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	1125.00	47.58 PK	74.00	-26.42	1.20 V	311	19.42	28.16
1	1125.00	44.16 AV	54.00	-9.84	1.20 V	311	16.00	28.16
2	*2437.00	111.30 PK			1.19 V	206	79.03	32.27
2	*2437.00	107.92 AV			1.19 V	206	75.65	32.27
3	4874.00	56.19 PK	74.00	-17.81	1.03 V	313	17.42	38.77
3	4874.00	52.85 AV	54.00	-1.15	1.03 V	313	14.08	38.77

- 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. The limit value is defined as per 15.247.
 6. “ * ”: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	43.36 PK	74.00	-30.64	1.13 H	252	15.20	28.16
1	1125.00	40.21 AV	54.00	-13.79	1.13 H	252	12.05	28.16
2	*2462.00	104.48 PK			1.39 H	60	72.12	32.36
2	*2462.00	101.16 AV			1.39 H	60	68.80	32.36
3	2483.50	50.52 PK	74.00	-23.48	1.39 H	60	18.08	32.44
3	2483.50	47.20 AV	54.00	-6.80	1.39 H	60	14.76	32.44
4	4924.00	52.23 PK	74.00	-21.77	1.14 H	291	13.33	38.90
4	4924.00	47.45 AV	54.00	-6.55	1.14 H	291	8.55	38.90

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	1125.00	47.46 PK	74.00	-26.54	1.21 V	304	19.30	28.16
1	1125.00	44.05 AV	54.00	-9.95	1.21 V	304	15.89	28.16
2	*2462.00	110.24 PK			1.15 V	5	77.88	32.36
2	*2462.00	106.83 AV			1.15 V	5	74.47	32.36
3	2488.00	61.26 PK	74.00	-12.74	1.15 V	33	28.80	32.46
3	2488.00	52.87 AV	54.00	-1.13	1.15 V	33	20.41	32.46
4	4924.00	56.39 PK	74.00	-17.61	1.05 V	316	17.49	38.90
4	4924.00	52.86 AV	54.00	-1.14	1.05 V	316	13.96	38.90

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. The limit value is defined as per 15.247.
6. “ * ”: Fundamental frequency.

802.11g OFDM MODULATION: DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	46.71 PK	74.00	-27.29	1.17 H	62	18.55	28.16
1	1125.00	43.25 AV	54.00	-10.75	1.17 H	62	15.09	28.16
2	2390.00	55.18 PK	74.00	-18.82	1.36 H	54	23.08	32.10
2	2390.00	45.42 AV	54.00	-8.58	1.36 H	54	13.32	32.10
3	*2412.00	103.87 PK			1.36 H	54	71.69	32.18
3	*2412.00	94.11 AV			1.36 H	54	61.93	32.18
4	4824.00	48.97 PK	74.00	-25.03	1.17 H	9	10.34	38.63
4	4824.00	35.86 AV	54.00	-18.14	1.17 H	9	-2.77	38.63

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	1125.00	46.62 PK	74.00	-27.38	1.08 V	244	18.46	28.16
1	1125.00	43.38 AV	54.00	-10.62	1.08 V	244	15.23	28.16
2	2390.00	70.20 PK	74.00	-3.80	1.18 V	218	38.10	32.10
2	2390.00	52.94 AV	54.00	-1.06	1.18 V	218	20.84	32.10
3	*2412.00	111.15 PK			1.18 V	215	78.97	32.18
3	*2412.00	101.63 AV			1.18 V	215	69.45	32.18
4	4824.00	51.36 PK	74.00	-22.64	1.16 V	214	12.73	38.63
4	4824.00	37.25 AV	54.00	-16.75	1.16 V	214	-1.38	38.63

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. The limit value is defined as per 15.247.
6. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	46.95 PK	74.00	-27.05	1.15 H	61	18.80	28.16
1	1125.00	43.48 AV	54.00	-10.52	1.15 H	61	15.32	28.16
2	2382.00	54.71 PK	74.00	-19.29	1.35 H	59	22.64	32.07
2	2382.00	45.03 AV	54.00	-8.97	1.35 H	59	12.96	32.07
3	*2437.00	106.92 PK			1.35 H	59	74.65	32.27
3	*2437.00	97.24 AV			1.35 H	59	64.97	32.27
4	2483.50	52.88 PK	74.00	-21.12	1.35 H	59	20.44	32.44
4	2483.50	43.20 AV	54.00	-10.80	1.35 H	59	10.76	32.44
5	4874.00	48.67 PK	74.00	-25.33	1.15 H	14	9.90	38.77
5	4874.00	35.52 AV	54.00	-18.48	1.15 H	14	-3.25	38.77

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	1125.00	47.25 PK	74.00	-26.75	1.01 V	139	19.09	28.16
1	1125.00	44.02 AV	54.00	-9.98	1.01 V	139	15.87	28.16
2	2382.00	65.62 PK	74.00	-8.38	1.15 V	220	33.55	32.07
2	2382.00	52.57 AV	54.00	-1.43	1.15 V	220	20.50	32.07
3	*2437.00	114.29 PK			1.15 V	220	82.02	32.27
3	*2437.00	104.78 AV			1.15 V	220	72.51	32.27
4	2483.50	63.75 PK	74.00	-10.25	1.15 V	220	31.31	32.44
4	2483.50	50.74 AV	54.00	-3.26	1.15 V	220	18.30	32.44
5	4874.00	51.49 PK	74.00	-22.51	1.08 V	226	12.72	38.77
5	4874.00	37.36 AV	54.00	-16.64	1.08 V	226	-1.41	38.77

- 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. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	46.82 PK	74.00	-27.18	1.30 H	70	18.66	28.16
1	1125.00	43.41 AV	54.00	-10.59	1.30 H	70	15.25	28.16
2	*2462.00	104.02 PK			1.37 H	53	71.66	32.36
2	*2462.00	94.25 AV			1.37 H	53	61.89	32.36
3	2483.50	55.13 PK	74.00	-18.87	1.37 H	53	22.69	32.44
3	2483.50	45.36 AV	54.00	-8.64	1.37 H	53	12.92	32.44
4	4924.00	48.92 PK	74.00	-25.08	1.22 H	97	10.02	38.90
4	4924.00	35.73 AV	54.00	-18.27	1.22 H	97	-3.17	38.90

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	1125.00	46.51 PK	74.00	-27.49	1.07 V	243	18.35	28.16
1	1125.00	43.30 AV	54.00	-10.70	1.07 V	243	15.14	28.16
2	*2462.00	111.54 PK			1.14 V	225	79.18	32.36
2	*2462.00	101.77 AV			1.14 V	225	69.41	32.36
3	2483.50	69.86 PK	74.00	-4.14	1.15 V	217	37.42	32.44
3	2483.50	52.88 AV	54.00	-1.12	1.15 V	217	20.44	32.44
4	4924.00	51.23 PK	74.00	-22.77	1.15 V	207	12.33	38.90
4	4924.00	37.14 AV	54.00	-16.86	1.15 V	207	-1.76	38.90

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. The limit value is defined as per 15.247.
6. “ * ”: Fundamental frequency.

DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 63%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	46.58 PK	74.00	-27.42	1.16 H	219	18.42	28.16
1	1125.00	43.11 AV	54.00	-10.89	1.16 H	219	14.95	28.16
2	2390.00	52.63 PK	74.00	-21.37	1.21 H	257	20.53	32.10
2	2390.00	43.28 AV	54.00	-10.72	1.21 H	257	11.18	32.10
3	*2412.00	99.73 PK			1.23 H	262	67.55	32.18
3	*2412.00	90.38 AV			1.23 H	262	58.20	32.18
4	4824.00	48.66 PK	74.00	-25.34	1.26 H	233	10.03	38.63
4	4824.00	35.57 AV	54.00	-18.43	1.26 H	233	-3.06	38.63

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	1125.00	46.51 PK	74.00	-27.49	1.04 V	51	18.35	28.16
1	1125.00	43.25 AV	54.00	-10.75	1.04 V	51	15.09	28.16
2	2390.00	65.15 PK	74.00	-8.85	1.22 V	33	33.05	32.10
2	2390.00	52.84 AV	54.00	-1.16	1.22 V	33	20.74	32.10
3	*2412.00	109.66 PK			1.24 V	36	77.48	32.18
3	*2412.00	99.94 AV			1.24 V	36	67.76	32.18
4	4824.00	51.18 PK	74.00	-22.82	1.17 V	41	12.55	38.63
4	4824.00	37.09 AV	54.00	-16.91	1.17 V	41	-1.54	38.63

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. The limit value is defined as per 15.247.
6. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	46.88 PK	74.00	-27.12	1.13 H	204	18.73	28.16
1	1125.00	43.41 AV	54.00	-10.59	1.13 H	204	15.25	28.16
2	2390.00	54.76 PK	74.00	-19.24	1.21 H	247	22.66	32.10
2	2390.00	44.88 AV	54.00	-9.12	1.21 H	247	12.78	32.10
3	*2437.00	103.56 PK			1.25 H	252	71.29	32.27
3	*2437.00	93.68 AV			1.25 H	252	61.41	32.27
4	2483.50	48.88 PK	74.00	-25.12	1.26 H	263	16.44	32.44
4	2483.50	39.03 AV	54.00	-14.97	1.26 H	263	6.59	32.44
5	4874.00	48.38 PK	74.00	-25.62	1.25 H	213	9.61	38.77
5	4874.00	35.21 AV	54.00	-18.79	1.25 H	213	-3.56	38.77

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	1125.00	47.13 PK	74.00	-26.87	1.18 V	46	18.98	28.16
1	1125.00	43.95 AV	54.00	-10.05	1.18 V	46	15.80	28.16
2	2390.00	63.08 PK	74.00	-10.92	1.23 V	38	30.98	32.10
2	2390.00	52.53 AV	54.00	-1.47	1.23 V	38	20.43	32.10
3	*2437.00	112.42 PK			1.22 V	36	80.15	32.27
3	*2437.00	103.13 AV			1.22 V	36	70.86	32.27
4	2483.50	57.73 PK	74.00	-16.27	1.24 V	35	25.29	32.44
4	2483.50	46.45 AV	54.00	-7.55	1.24 V	35	14.01	32.44
5	4874.00	51.27 PK	74.00	-22.73	1.29 V	43	12.50	38.77
5	4874.00	37.19 AV	54.00	-16.81	1.29 V	43	-1.58	38.77

- 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. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	46.50 PK	74.00	-27.50	1.18 H	267	18.34	28.16
1	1125.00	43.12 AV	54.00	-10.88	1.18 H	267	14.96	28.16
2	*2462.00	99.41 PK			1.22 H	261	67.05	32.36
2	*2462.00	89.92 AV			1.22 H	261	57.56	32.36
3	2483.50	54.64 PK	74.00	-19.36	1.20 H	253	22.20	32.44
3	2483.50	45.12 AV	54.00	-8.88	1.20 H	253	12.68	32.44
4	4924.00	48.73 PK	74.00	-25.27	1.25 H	243	9.83	38.90
4	4924.00	35.55 AV	54.00	-18.45	1.25 H	243	-3.35	38.90

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	1125.00	46.32 PK	74.00	-27.68	1.14 V	34	18.16	28.16
1	1125.00	43.07 AV	54.00	-10.93	1.14 V	34	14.91	28.16
2	*2462.00	109.12 PK			1.20 V	28	76.76	32.36
2	*2462.00	99.45 AV			1.20 V	28	67.09	32.36
3	2485.00	69.47 PK	74.00	-4.53	1.20 V	38	37.02	32.45
3	2485.00	52.52 AV	54.00	-1.48	1.20 V	38	20.07	32.45
4	4924.00	51.11 PK	74.00	-22.89	1.17 V	50	12.21	38.90
4	4924.00	37.03 AV	54.00	-16.97	1.17 V	50	-1.87	38.90

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. The limit value is defined as per 15.247.
6. “ * ”: Fundamental frequency.

DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	46.63 PK	74.00	-27.37	1.28 H	63	18.48	28.16
1	1125.00	43.14 AV	54.00	-10.86	1.28 H	63	14.98	28.16
2	2390.00	53.05 PK	74.00	-20.95	1.37 H	107	20.95	32.10
2	2390.00	43.21 AV	54.00	-10.79	1.37 H	107	11.11	32.10
3	*2422.00	95.51 PK			1.42 H	34	63.29	32.22
3	*2422.00	85.67 AV			1.42 H	34	53.45	32.22
4	4844.00	46.57 PK	74.00	-27.43	1.32 H	78	7.89	38.68
4	4844.00	33.28 AV	54.00	-20.72	1.32 H	78	-5.40	38.68

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	1125.00	46.54 PK	74.00	-27.46	1.15 V	165	18.38	28.16
1	1125.00	43.28 AV	54.00	-10.72	1.15 V	165	15.12	28.16
2	2388.00	65.09 PK	74.00	-8.91	1.14 V	274	33.00	32.09
2	2388.00	52.86 AV	54.00	-1.14	1.14 V	274	20.77	32.09
3	*2422.00	104.92 PK			1.15 V	224	72.70	32.22
3	*2422.00	95.32 AV			1.15 V	224	63.10	32.22
4	4844.00	49.07 PK	74.00	-24.93	1.22 V	61	10.39	38.68
4	4844.00	35.78 AV	54.00	-18.22	1.22 V	61	-2.90	38.68

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. The limit value is defined as per 15.247.
6. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	46.78 PK	74.00	-27.22	1.14 H	127	18.62	28.16
1	1125.00	43.28 AV	54.00	-10.72	1.14 H	127	15.12	28.16
2	2390.00	57.32 PK	74.00	-16.68	1.10 H	28	25.22	32.10
2	2390.00	44.63 AV	54.00	-9.37	1.10 H	28	12.53	32.10
3	*2437.00	97.58 PK			1.13 H	20	65.31	32.27
3	*2437.00	87.96 AV			1.13 H	20	55.69	32.27
4	2483.50	53.83 PK	74.00	-20.17	1.18 H	59	21.39	32.44
4	2483.50	44.46 AV	54.00	-9.54	1.18 H	59	12.02	32.44
5	4874.00	46.85 PK	74.00	-27.15	1.22 H	107	8.08	38.77
5	4874.00	33.61 AV	54.00	-20.39	1.22 H	107	-5.16	38.77

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	1125.00	46.87 PK	74.00	-27.13	1.21 V	187	18.71	28.16
1	1125.00	43.57 AV	54.00	-10.43	1.21 V	187	15.41	28.16
2	2390.00	68.23 PK	74.00	-5.77	1.26 V	201	36.13	32.10
2	2390.00	52.17 AV	54.00	-1.83	1.26 V	201	20.07	32.10
3	*2437.00	107.35 PK			1.17 V	166	75.08	32.27
3	*2437.00	97.81 AV			1.17 V	166	65.54	32.27
4	2484.00	71.64 PK	74.00	-2.36	1.14 V	339	39.20	32.44
4	2484.00	52.80 AV	54.00	-1.20	1.14 V	339	20.36	32.44
5	4874.00	49.13 PK	74.00	-24.87	1.71 V	153	10.36	38.77
5	4874.00	35.81 AV	54.00	-18.19	1.71 V	153	-2.96	38.77

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. The limit value is defined as per 15.247.
6. “ * ”: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	46.31 PK	74.00	-27.69	1.31 H	82	18.16	28.16
1	1125.00	42.82 AV	54.00	-11.18	1.31 H	82	14.66	28.16
2	*2452.00	95.08 PK			1.39 H	20	62.75	32.33
2	*2452.00	84.94 AV			1.39 H	20	52.61	32.33
3	2483.50	56.45 PK	74.00	-17.55	1.28 H	74	24.01	32.44
3	2483.50	46.77 AV	54.00	-7.23	1.28 H	74	14.33	32.44
4	4904.00	46.39 PK	74.00	-27.61	1.12 H	180	7.54	38.85
4	4904.00	33.05 AV	54.00	-20.95	1.12 H	180	-5.80	38.85

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	1125.00	46.13 PK	74.00	-27.87	1.28 V	166	17.98	28.16
1	1125.00	42.89 AV	54.00	-11.11	1.28 V	166	14.73	28.16
2	*2452.00	104.41 PK			1.13 V	198	72.08	32.33
2	*2452.00	94.86 AV			1.13 V	198	62.53	32.33
3	2487.00	65.99 PK	74.00	-8.01	1.15 V	338	33.54	32.45
3	2487.00	52.83 AV	54.00	-1.17	1.15 V	338	20.38	32.45
4	4904.00	48.86 PK	74.00	-25.14	1.12 V	205	10.01	38.85
4	4904.00	35.55 AV	54.00	-18.45	1.12 V	205	-3.30	38.85

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. The limit value is defined as per 15.247.
6. “ * ”: Fundamental frequency.

802.11b(CB mode) DSSS MODULATION: DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	43.03 PK	74.00	-30.97	1.07 H	64	14.87	28.16
1	1125.00	39.88 AV	54.00	-14.12	1.07 H	64	11.73	28.16
2	2390.00	48.91 PK	74.00	-25.09	1.24 H	201	16.81	32.10
2	2390.00	45.31 AV	54.00	-8.69	1.24 H	201	13.21	32.10
3	*2431.00	104.46 PK			1.11 H	24	72.21	32.25
3	*2431.00	100.85 AV			1.11 H	24	68.60	32.25
4	4864.00	53.43 PK	74.00	-20.57	1.20 H	0	14.69	38.74
4	4864.00	48.17 AV	54.00	-5.83	1.20 H	0	9.43	38.74

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	1125.00	46.50 PK	74.00	-27.50	1.17 V	107	18.34	28.16
1	1125.00	43.32 AV	54.00	-10.68	1.17 V	107	15.16	28.16
2	2390.00	61.26 PK	74.00	-12.74	1.00 V	191	29.16	32.10
2	2390.00	52.81 AV	54.00	-1.19	1.00 V	191	20.71	32.10
3	*2431.00	112.10 PK			1.16 V	207	79.85	32.25
3	*2431.00	108.36 AV			1.16 V	207	76.11	32.25
4	4864.00	56.27 PK	74.00	-17.73	1.15 V	310	17.53	38.74
4	4864.00	52.63 AV	54.00	-1.37	1.15 V	310	13.89	38.74

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. The limit value is defined as per 15.247.
6. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	43.69 PK	74.00	-30.31	1.28 H	97	15.53	28.16
1	1125.00	40.67 AV	54.00	-13.33	1.28 H	97	12.52	28.16
2	*2444.00	107.62 PK			1.35 H	28	75.32	32.30
2	*2444.00	103.94 AV			1.35 H	28	71.64	32.30
3	4894.00	53.58 PK	74.00	-20.42	1.21 H	141	14.76	38.82
3	4894.00	48.31 AV	54.00	-5.69	1.21 H	141	9.49	38.82

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	1125.00	47.76 PK	74.00	-26.24	1.21 V	144	19.60	28.16
1	1125.00	44.32 AV	54.00	-9.68	1.21 V	144	16.16	28.16
2	*2446.00	114.41 PK			1.13 V	209	82.10	32.31
2	*2446.00	110.68 AV			1.13 V	209	78.37	32.31
3	4894.00	56.61 PK	74.00	-17.39	1.08 V	197	17.79	38.82
3	4894.00	52.81 AV	54.00	-1.19	1.08 V	197	13.99	38.82

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * ”: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 62%RH, 991hPa	TESTED BY	Brad Wu

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	1125.00	43.25 PK	74.00	-30.75	1.02 H	74	15.09	28.16
1	1125.00	40.10 AV	54.00	-13.90	1.02 H	74	11.95	28.16
2	*2442.00	104.48 PK			1.10 H	29	72.19	32.29
2	*2442.00	100.86 AV			1.10 H	29	68.57	32.29
3	2483.50	51.89 PK	74.00	-22.11	1.10 H	29	19.45	32.44
3	2483.50	45.27 AV	54.00	-8.73	1.10 H	29	12.83	32.44
4	4884.00	53.51 PK	74.00	-20.49	1.19 H	22	14.71	38.80
4	4884.00	48.26 AV	54.00	-5.74	1.19 H	22	9.46	38.80

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	1125.00	47.23 PK	74.00	-26.77	1.02 V	94	19.07	28.16
1	1125.00	43.86 AV	54.00	-10.14	1.02 V	94	15.70	28.16
2	*2442.00	112.10 PK			1.15 V	210	79.81	32.29
2	*2442.00	108.32 AV			1.15 V	210	76.03	32.29
3	2483.50	60.61 PK	74.00	-13.39	1.16 V	219	28.17	32.44
3	2483.50	52.73 AV	54.00	-1.27	1.16 V	219	20.29	32.44
4	4884.00	55.75 PK	74.00	-18.25	1.10 V	251	16.95	38.80
4	4884.00	51.82 AV	54.00	-2.18	1.10 V	251	13.02	38.80

- 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. The limit value is defined as per 15.247.
 6. “ * ”: Fundamental frequency.

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYZER	FSEK 30	100049	Aug. 14, 2006

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

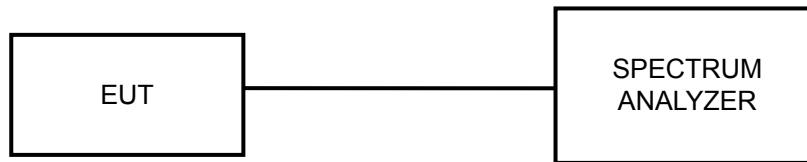
4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP

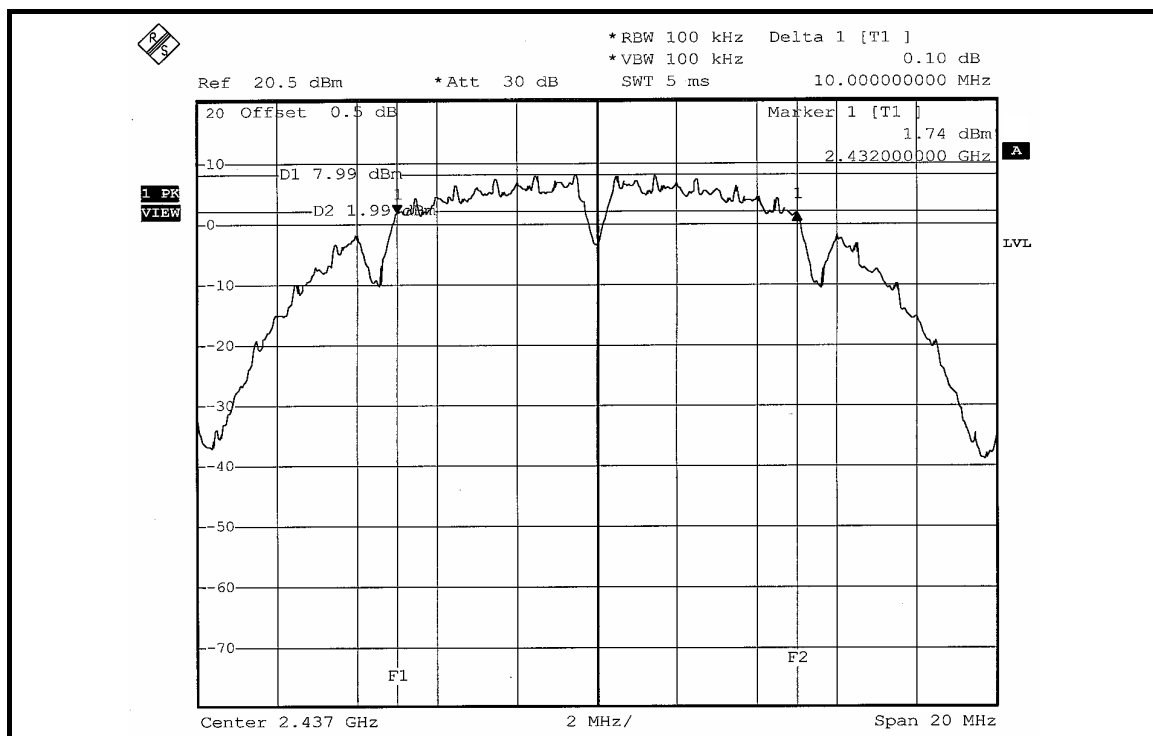


4.3.6 EUT OPERATING CONDITIONS

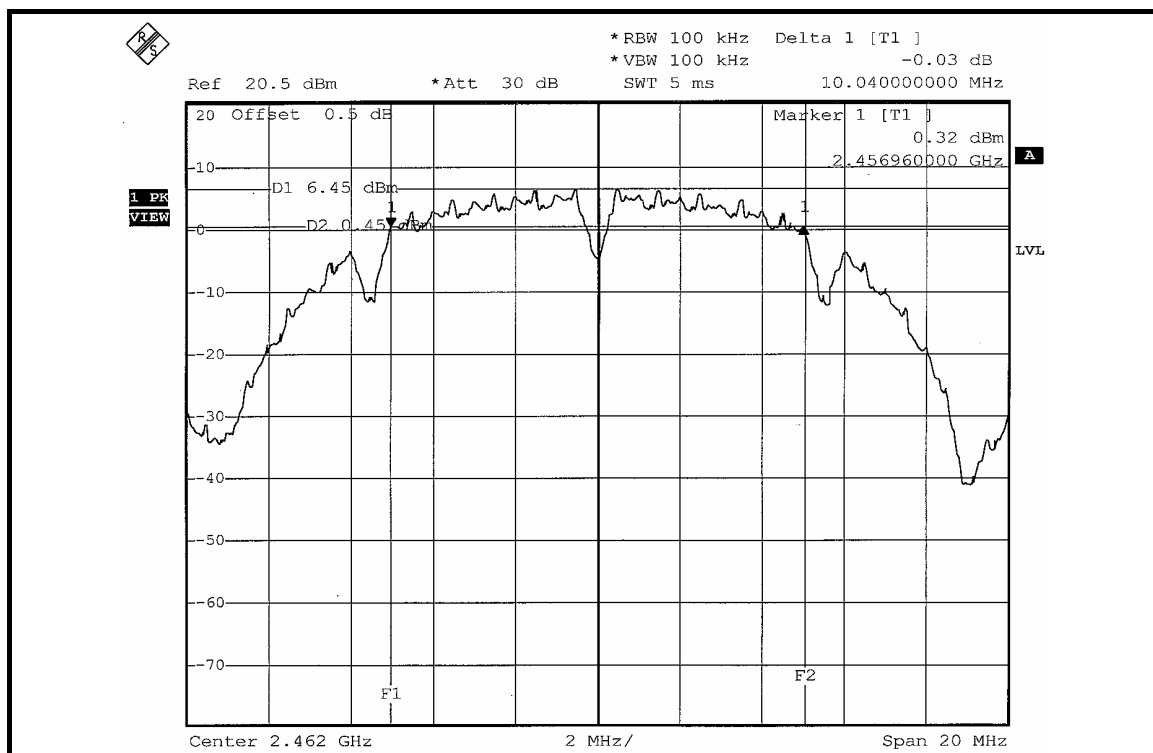
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



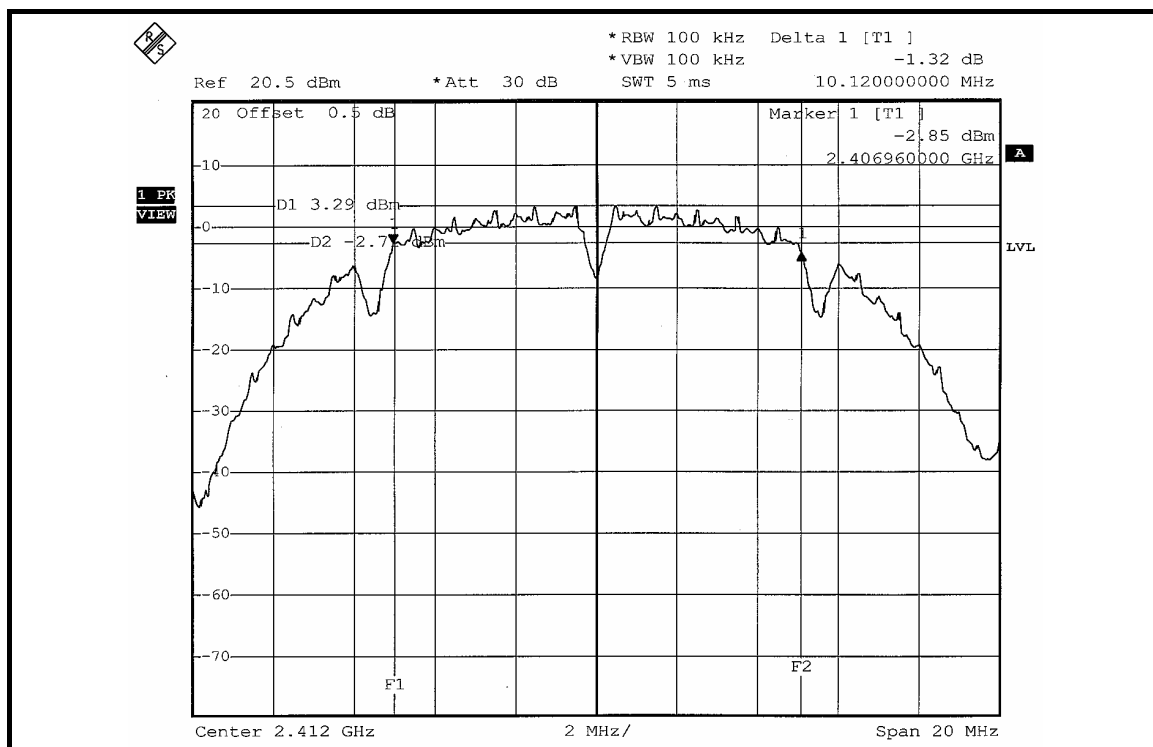
CH 6



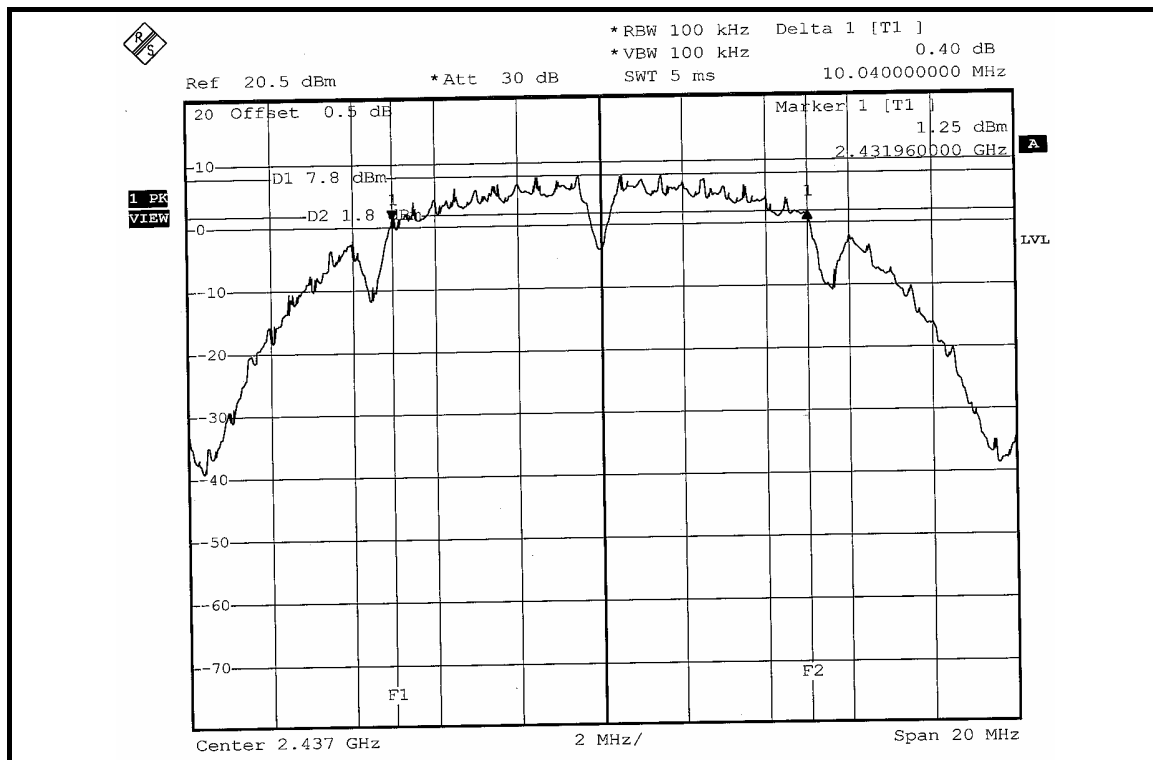
CH 11



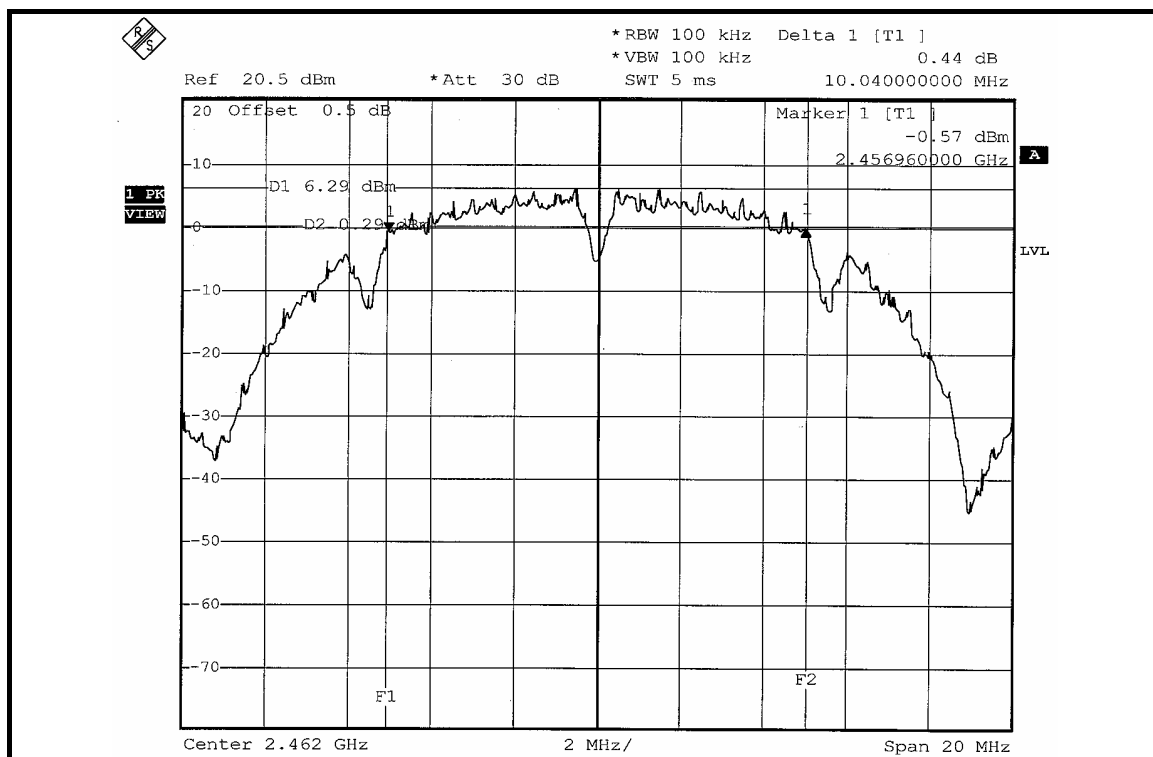
FOR CHAIN 1: CH 1



CH 6



CH 11

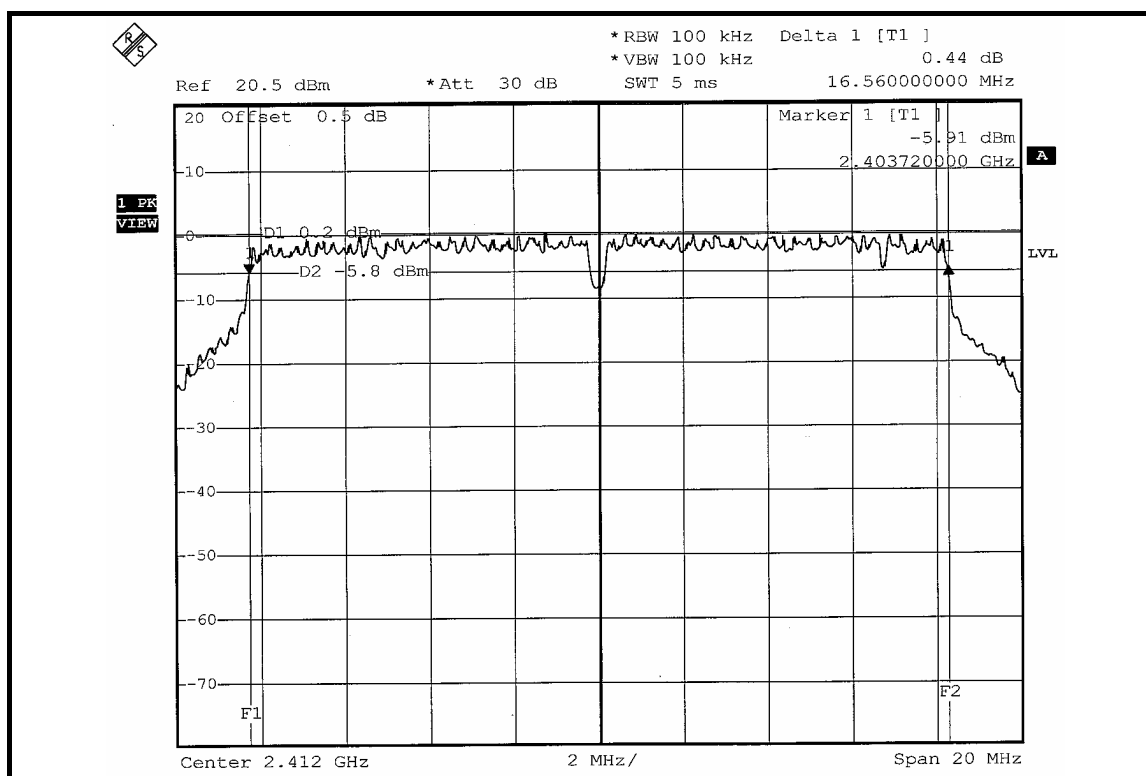


802.11g OFDM MODULATION:

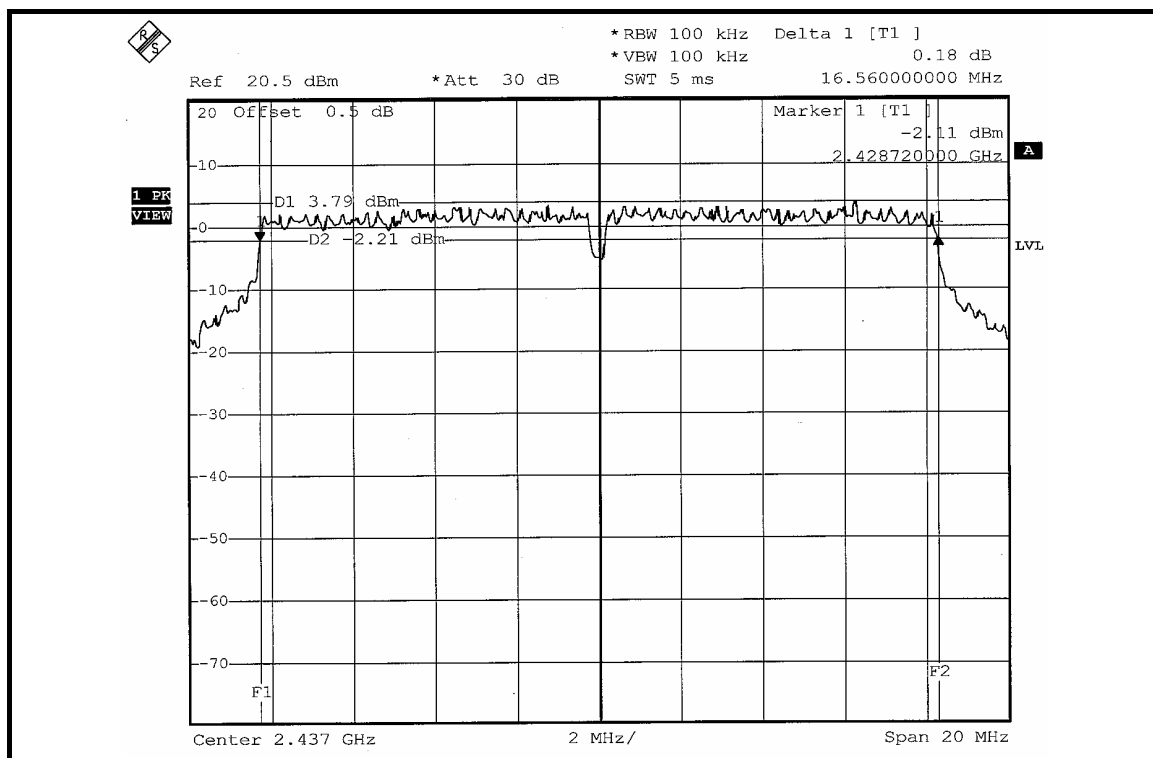
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.56	16.56	0.5	PASS
6	2437	16.56	16.56	0.5	PASS
11	2462	16.60	16.48	0.5	PASS

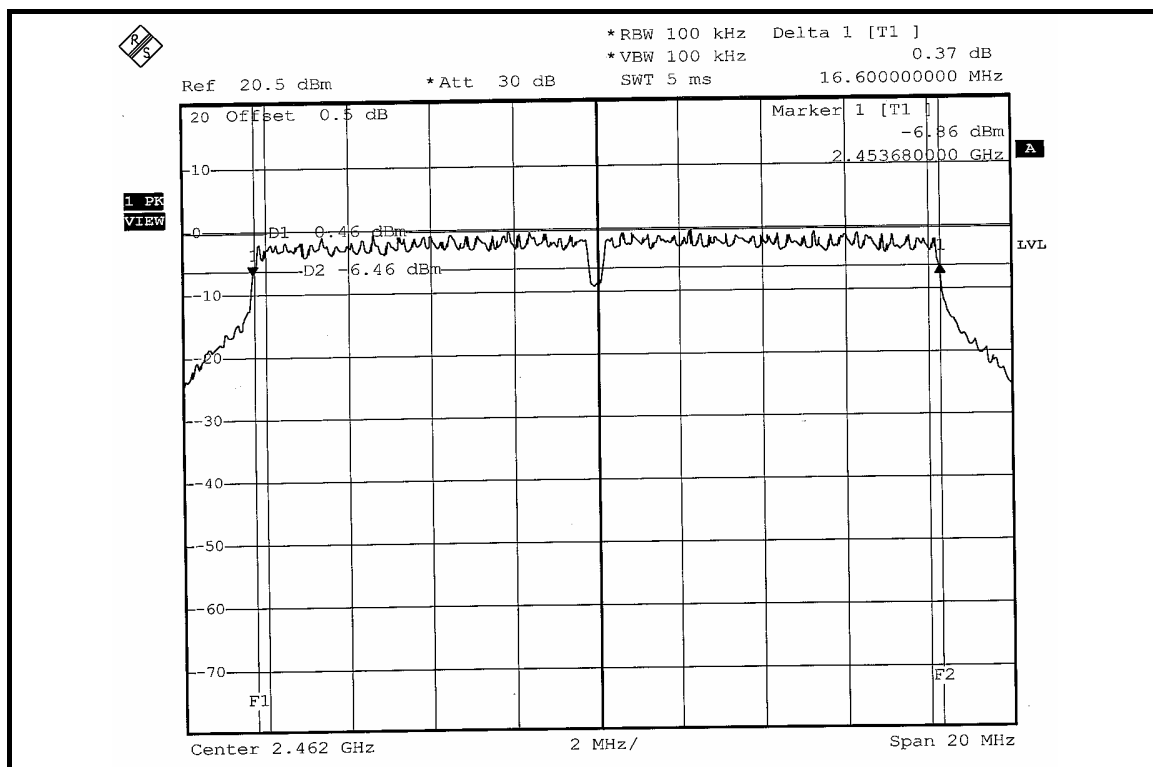
FOR CHAIN 0: CH 1



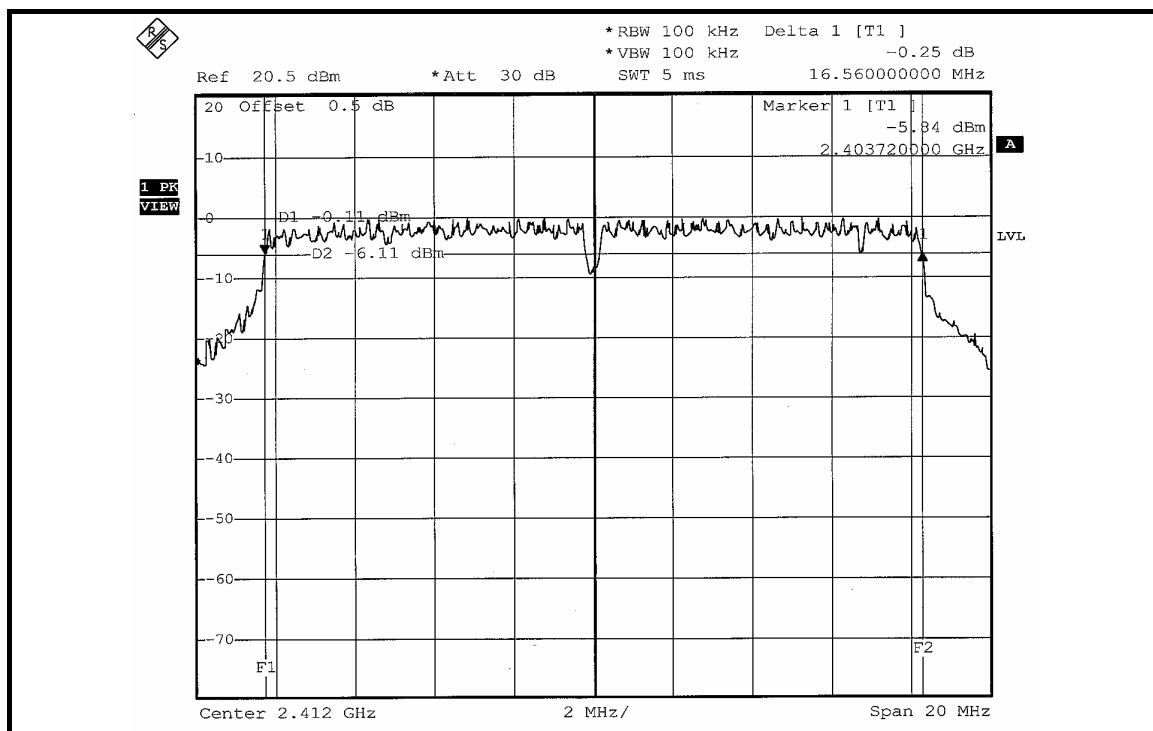
CH 6



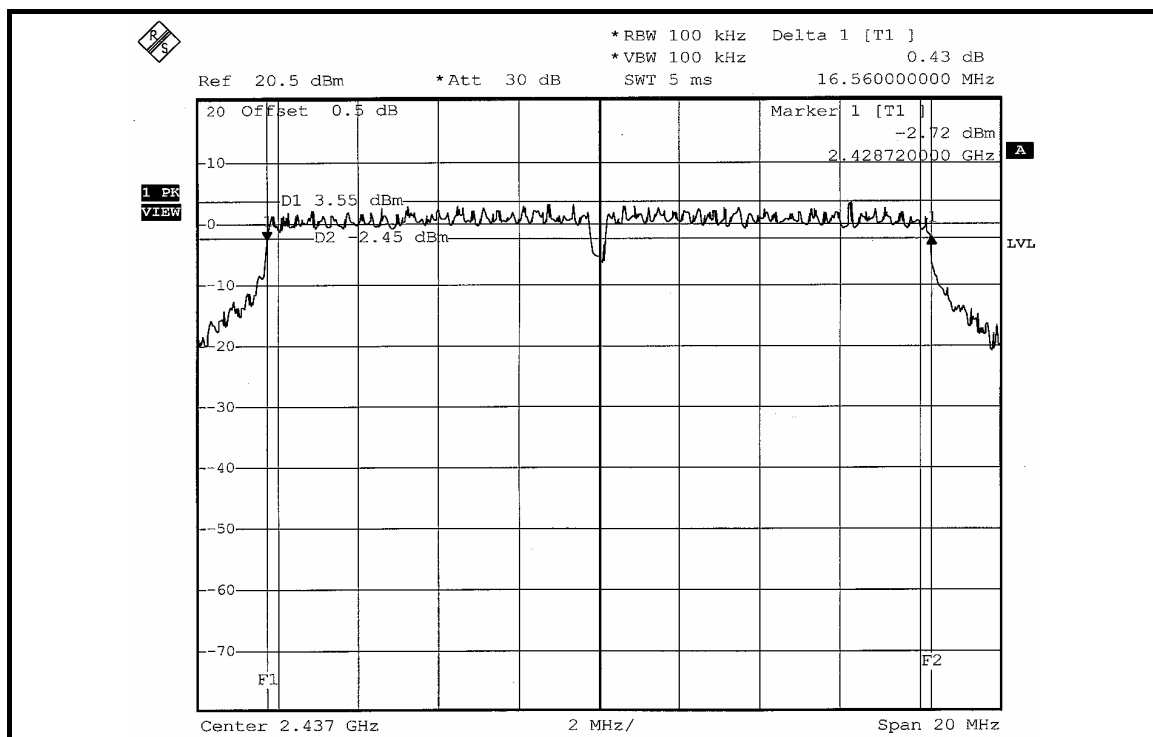
CH 11



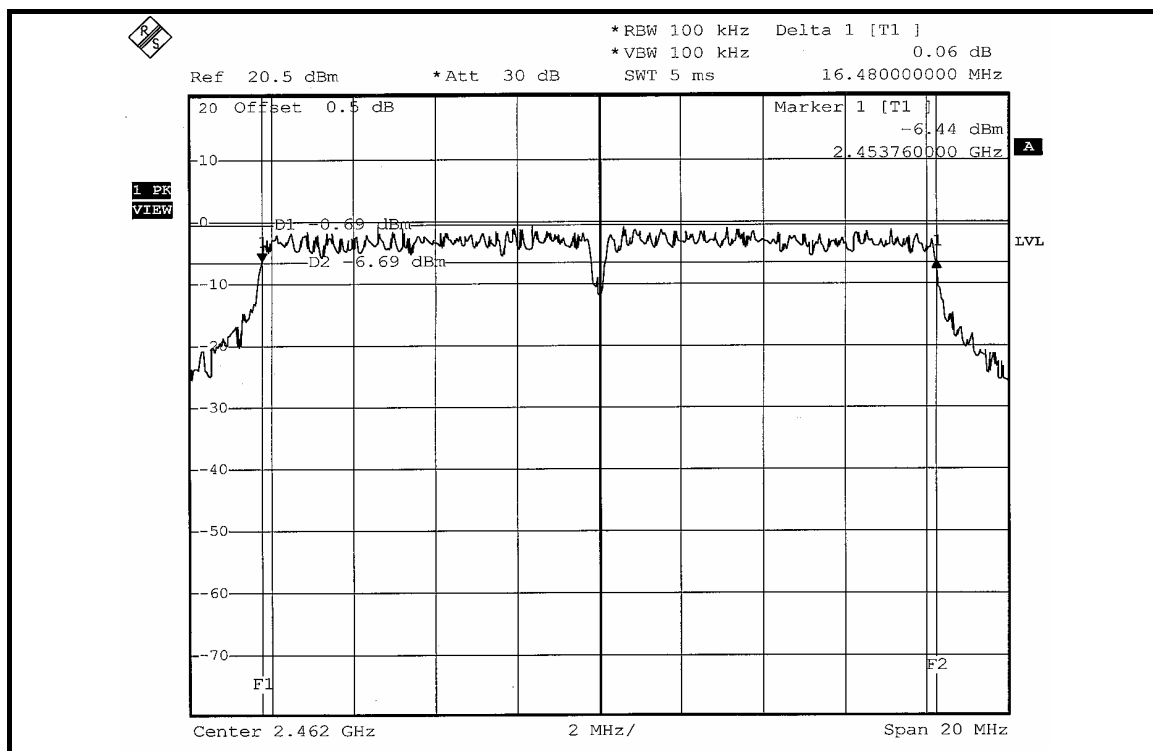
FOR CHAIN 1: CH 1



CH 6



CH 11

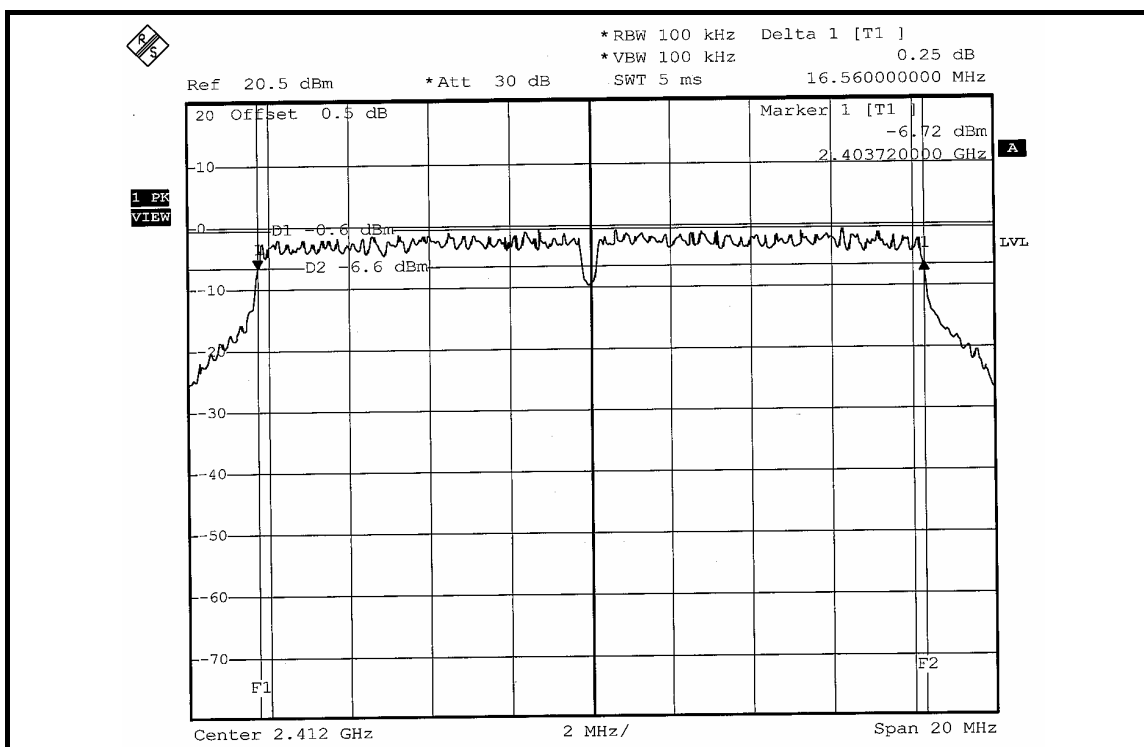


DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

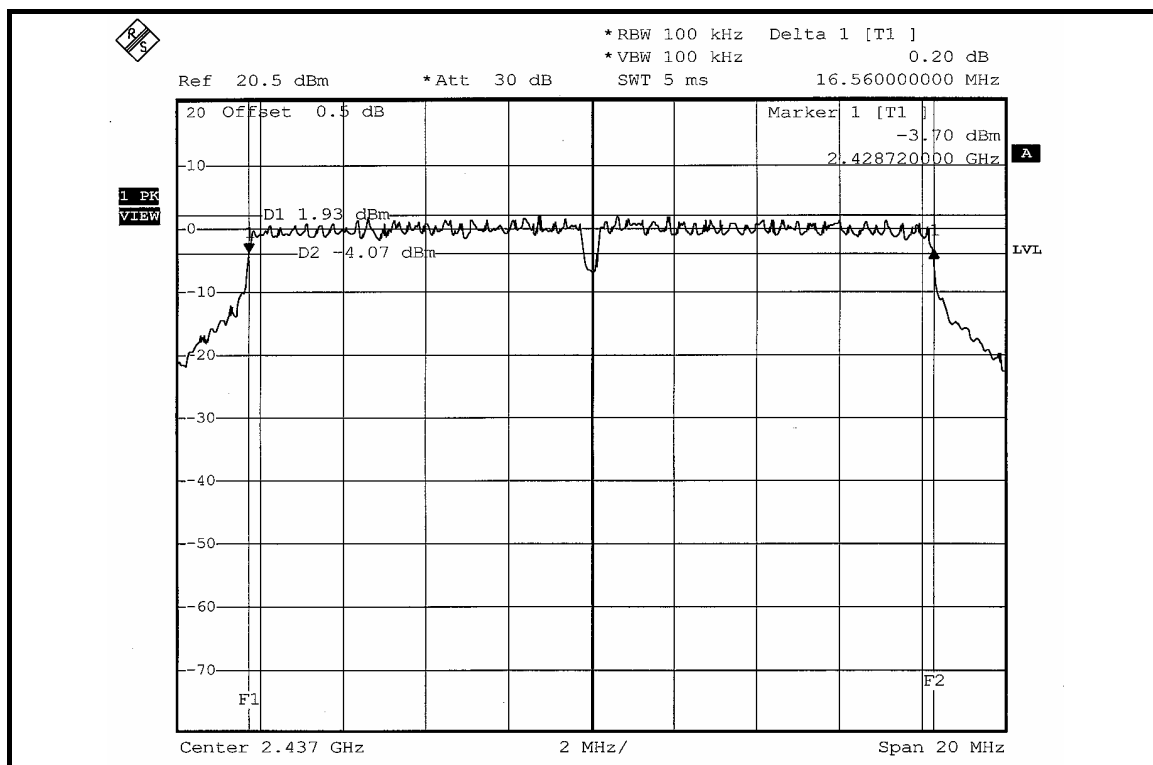
MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.56	16.56	0.5	PASS
6	2437	16.56	16.52	0.5	PASS
11	2462	16.56	16.56	0.5	PASS

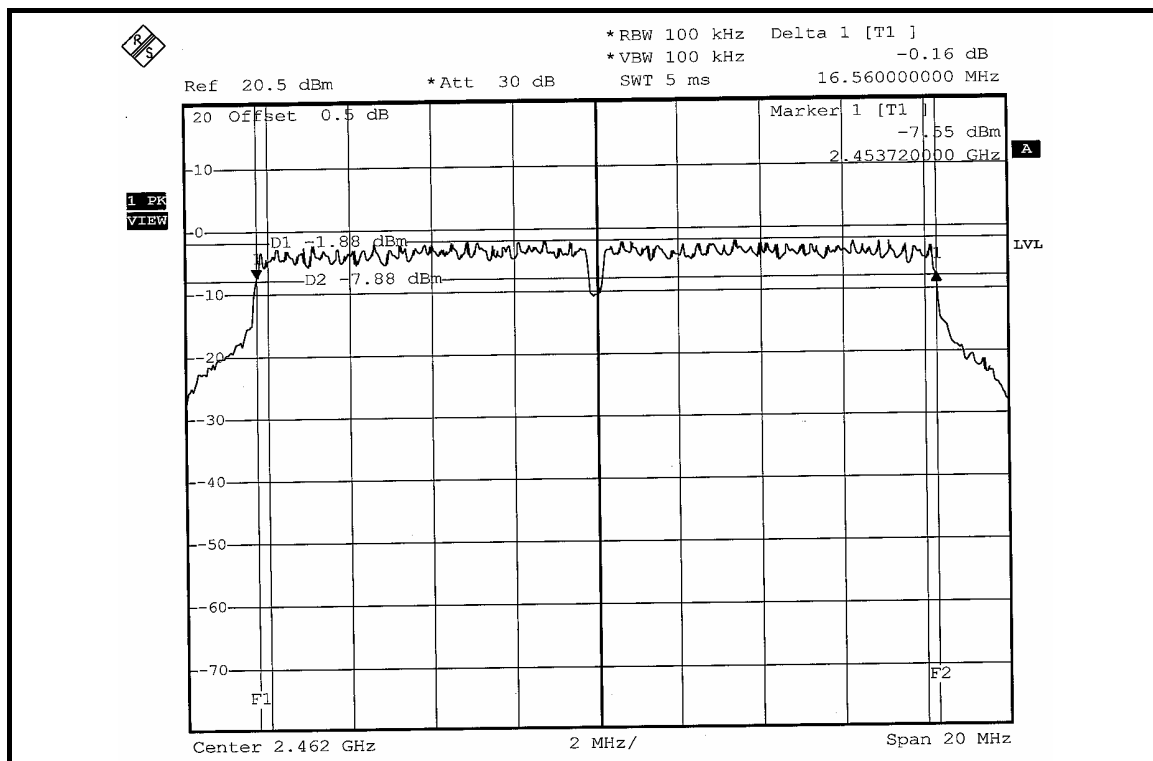
FOR CHAIN 0: CH 1



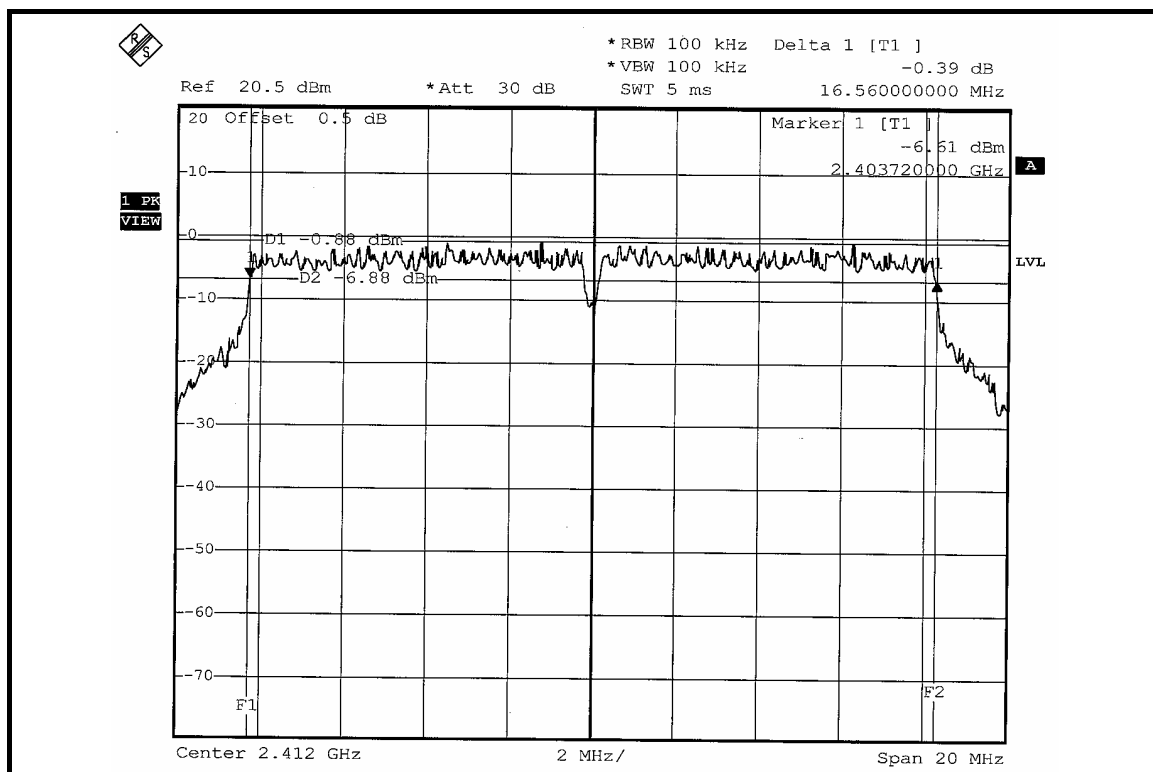
CH 6



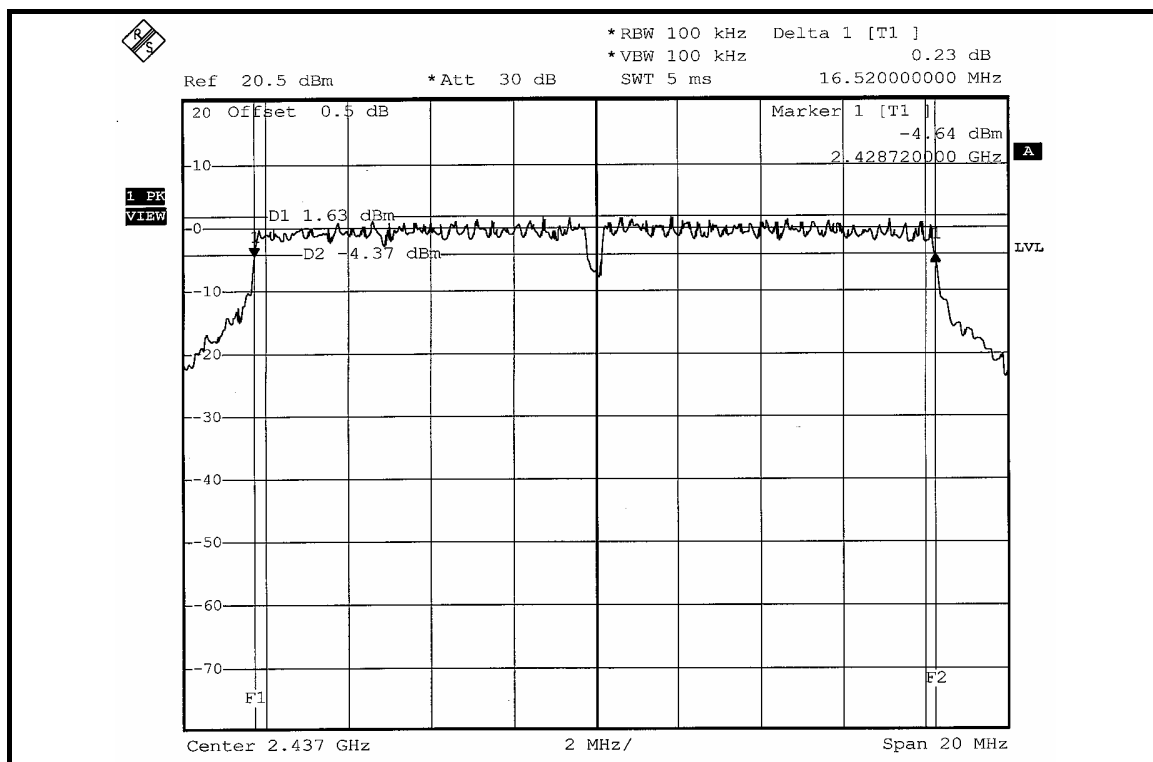
CH 11



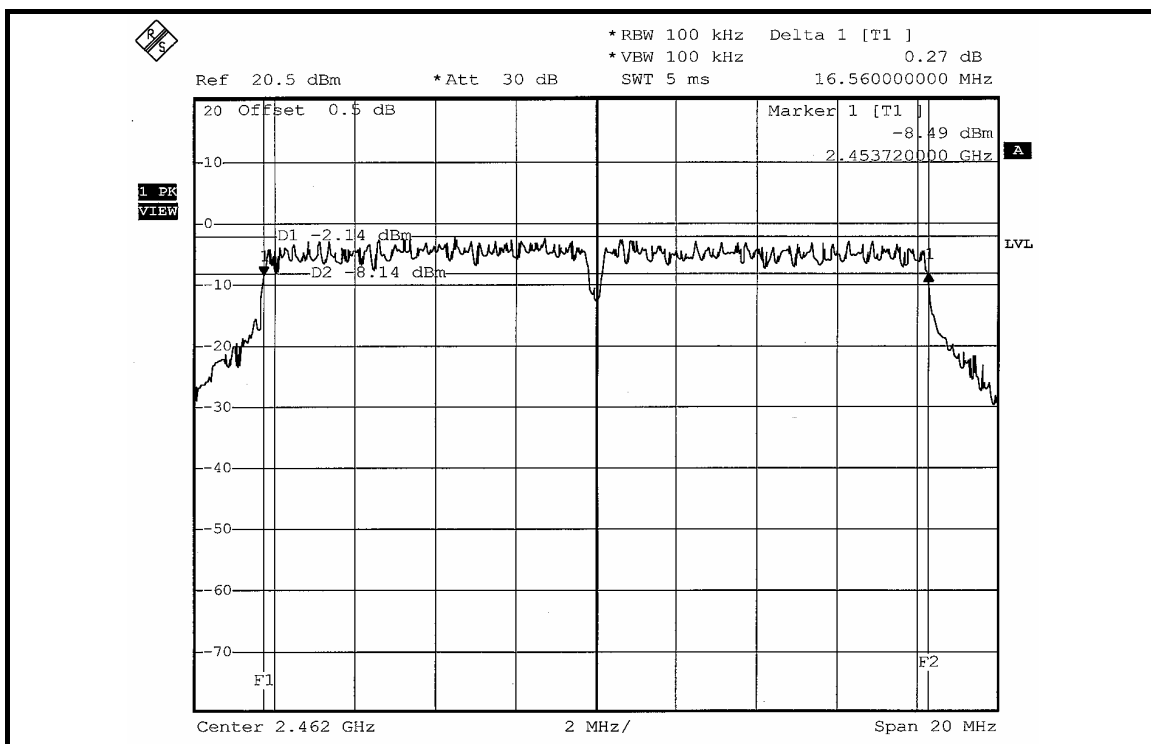
FOR CHAIN 1: CH 1



CH 6



CH 11

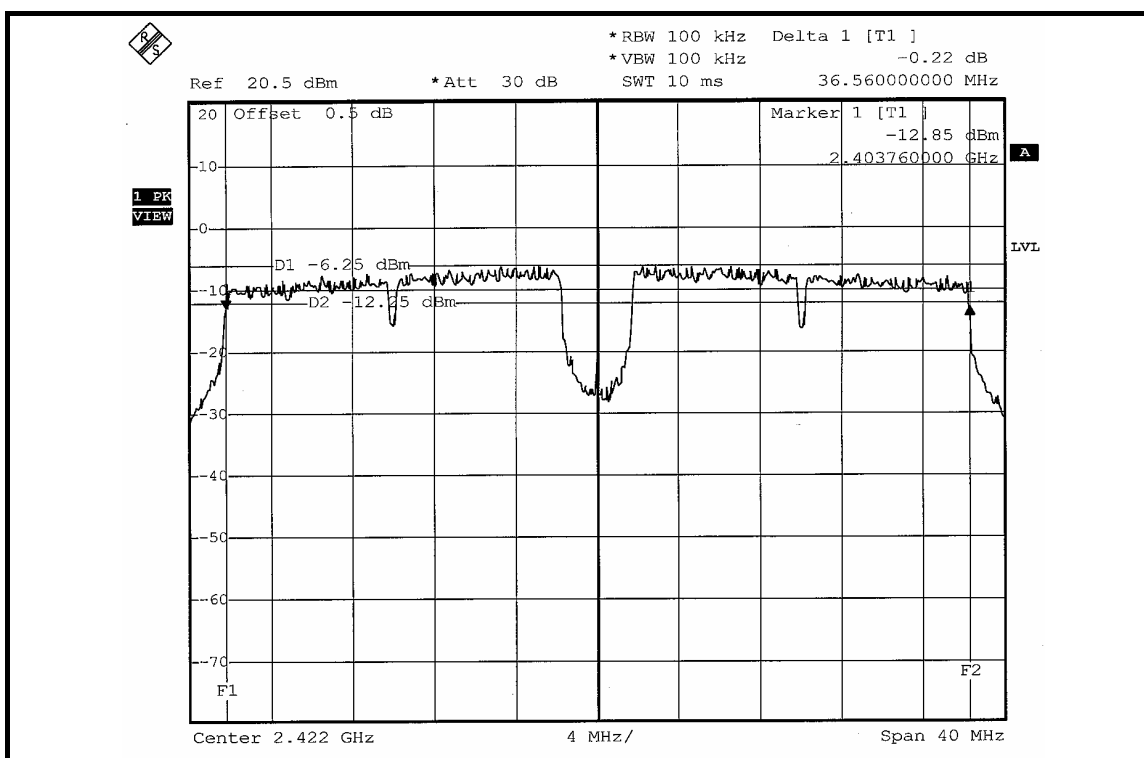


DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

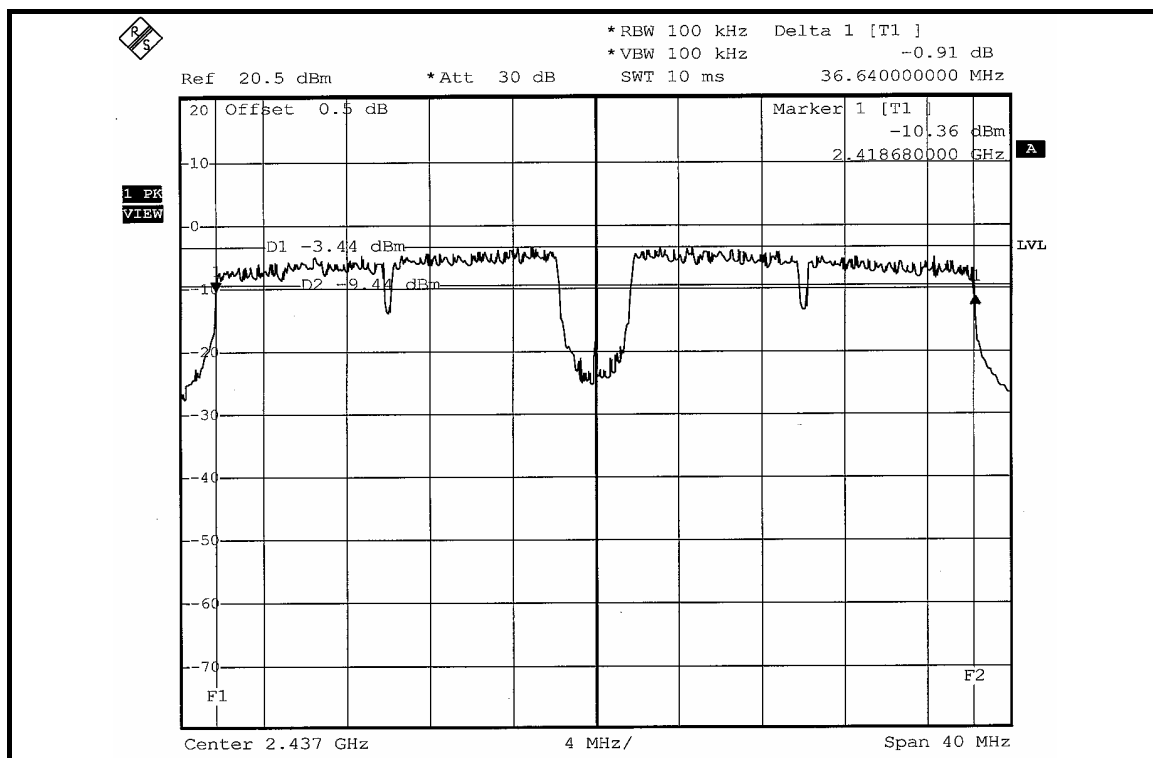
MODULATION TYPE	BPSK	TRANSFER RATE	15Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	36.56	36.56	0.5	PASS
4	2437	36.64	36.64	0.5	PASS
7	2452	36.56	36.48	0.5	PASS

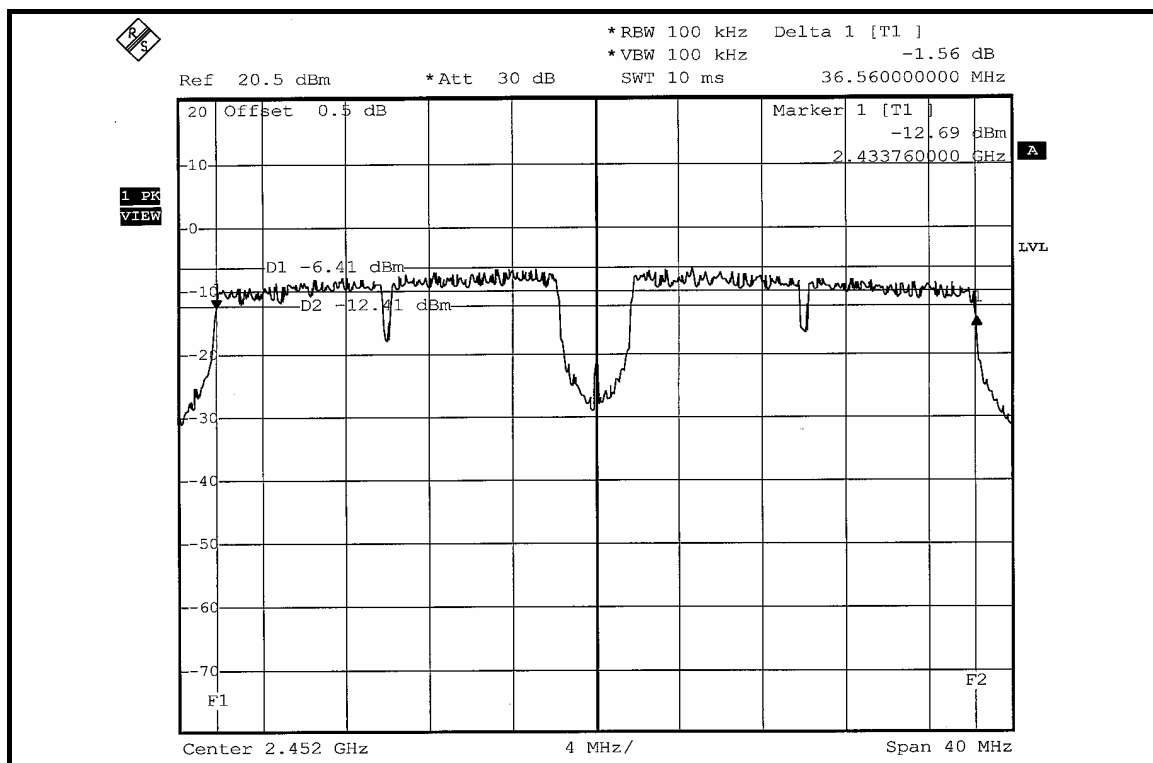
FOR CHAIN 0: CH 1



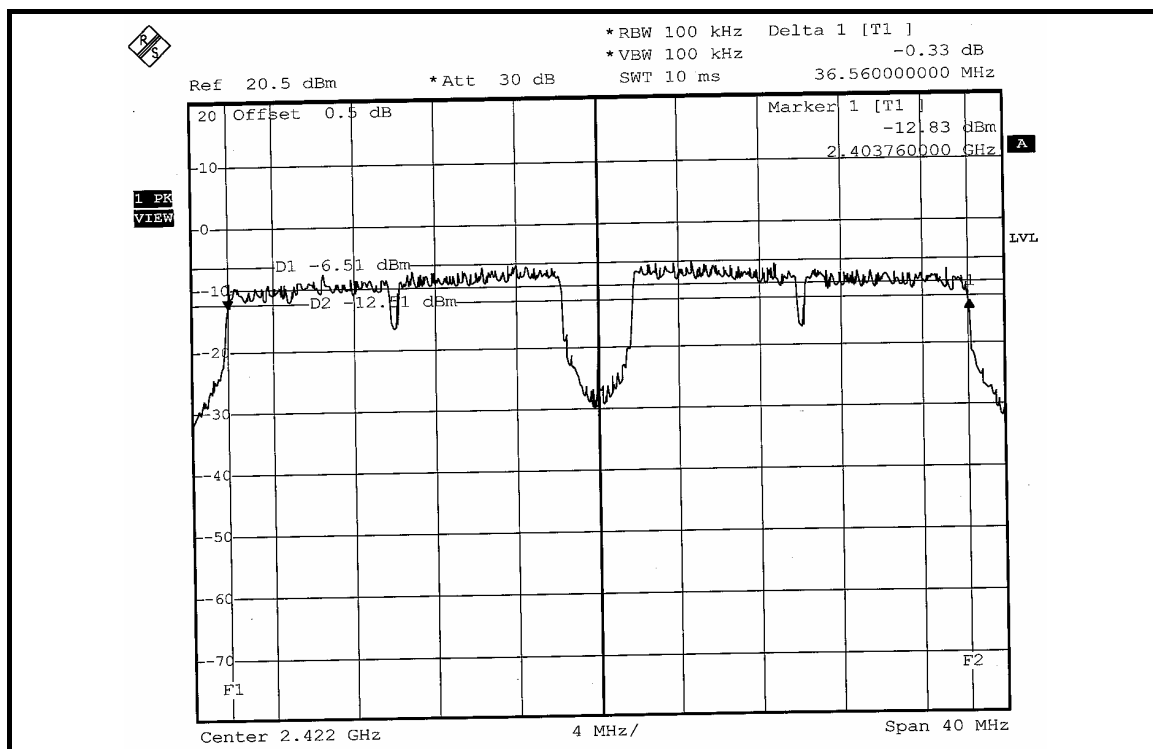
CH 4



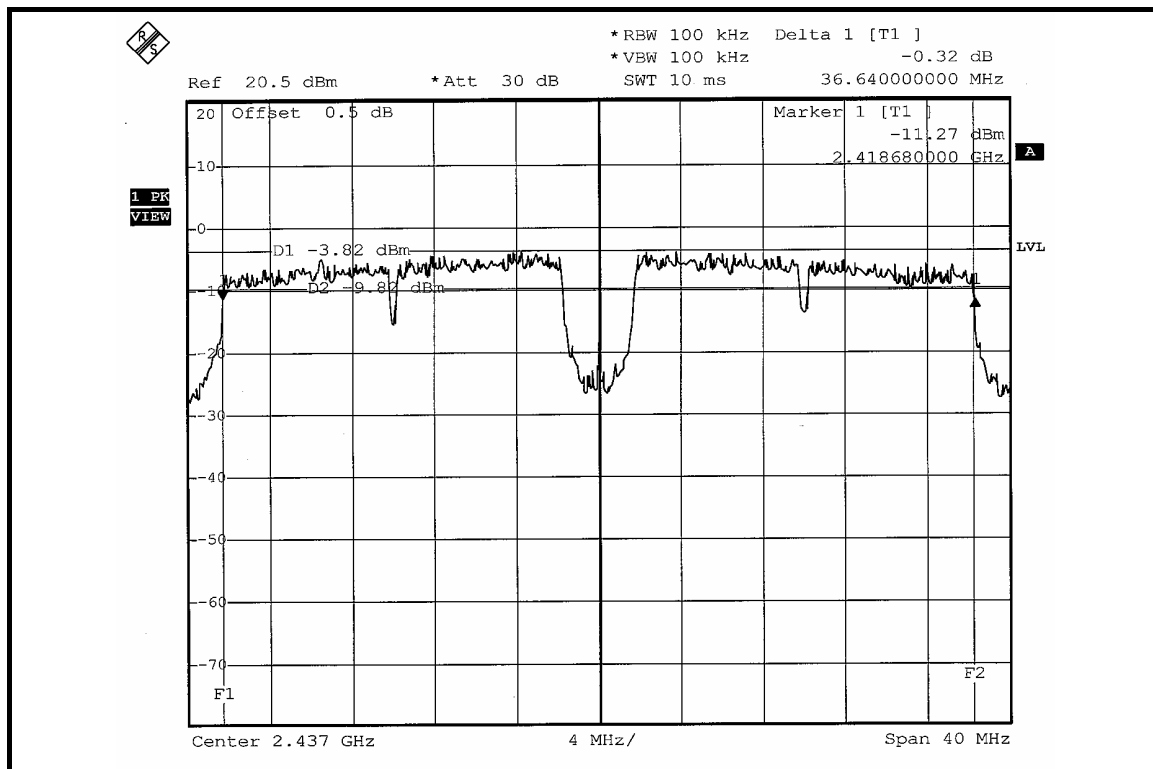
CH 7



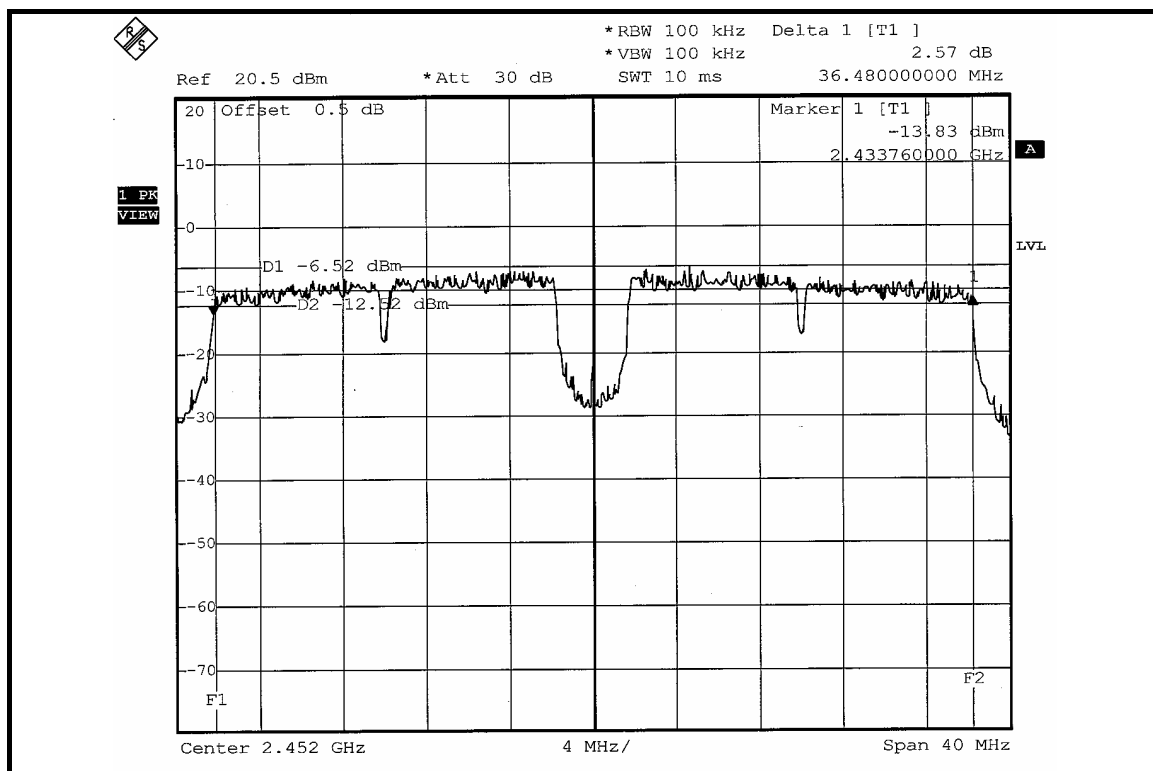
FOR CHAIN 1: CH 1



CH 4



CH 7

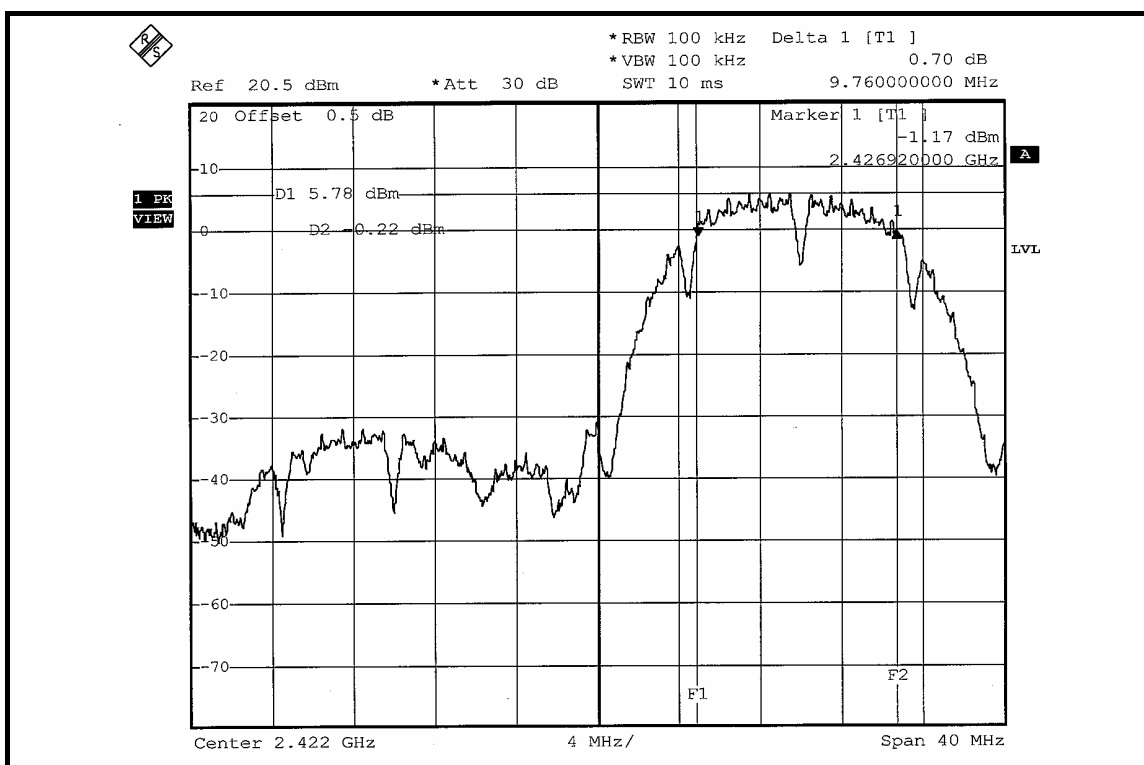


802.11b (CB mode) OFDM MODULATION: DUAL TX:

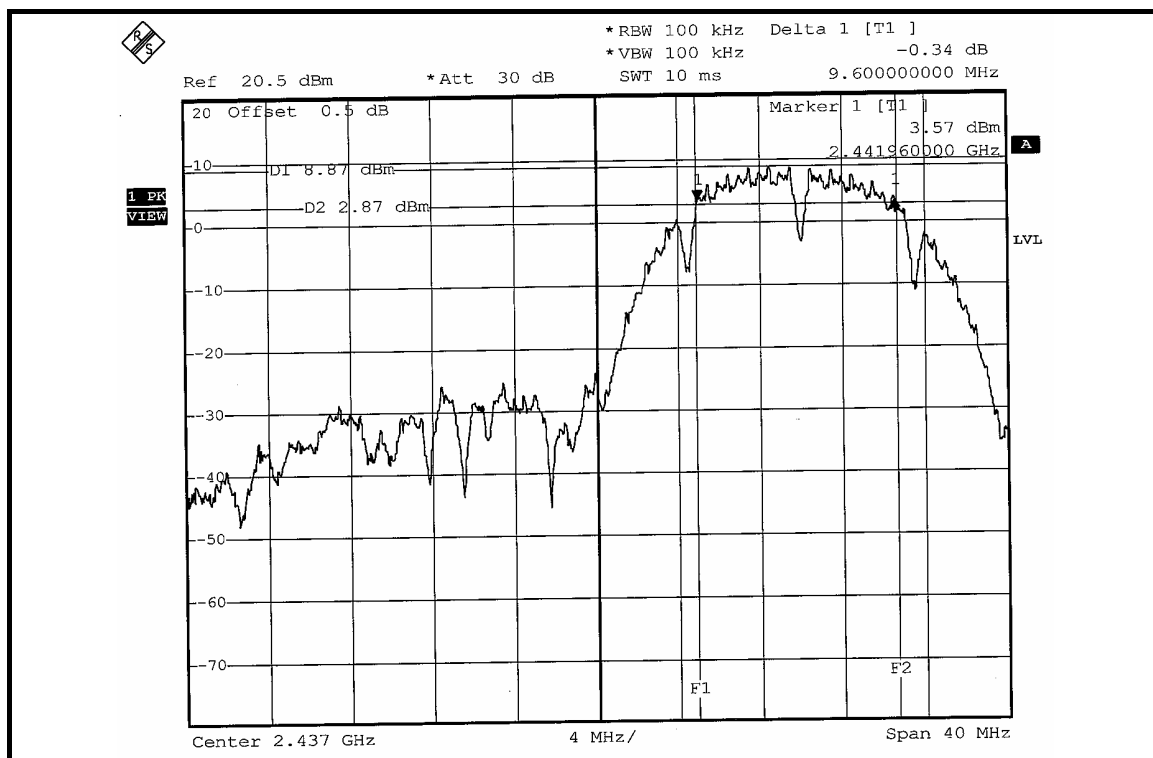
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	9.76	9.52	0.5	PASS
4	2437	9.60	9.60	0.5	PASS
7	2452	9.76	9.60	0.5	PASS

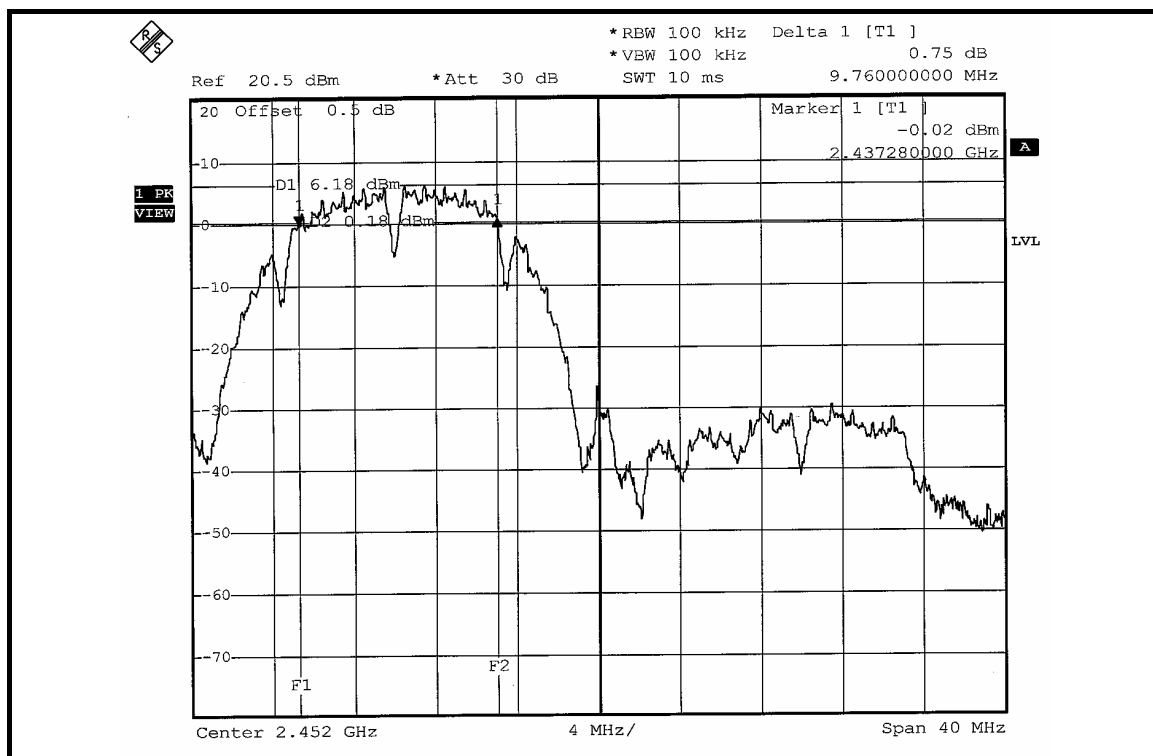
FOR CHAIN 0: CH 1



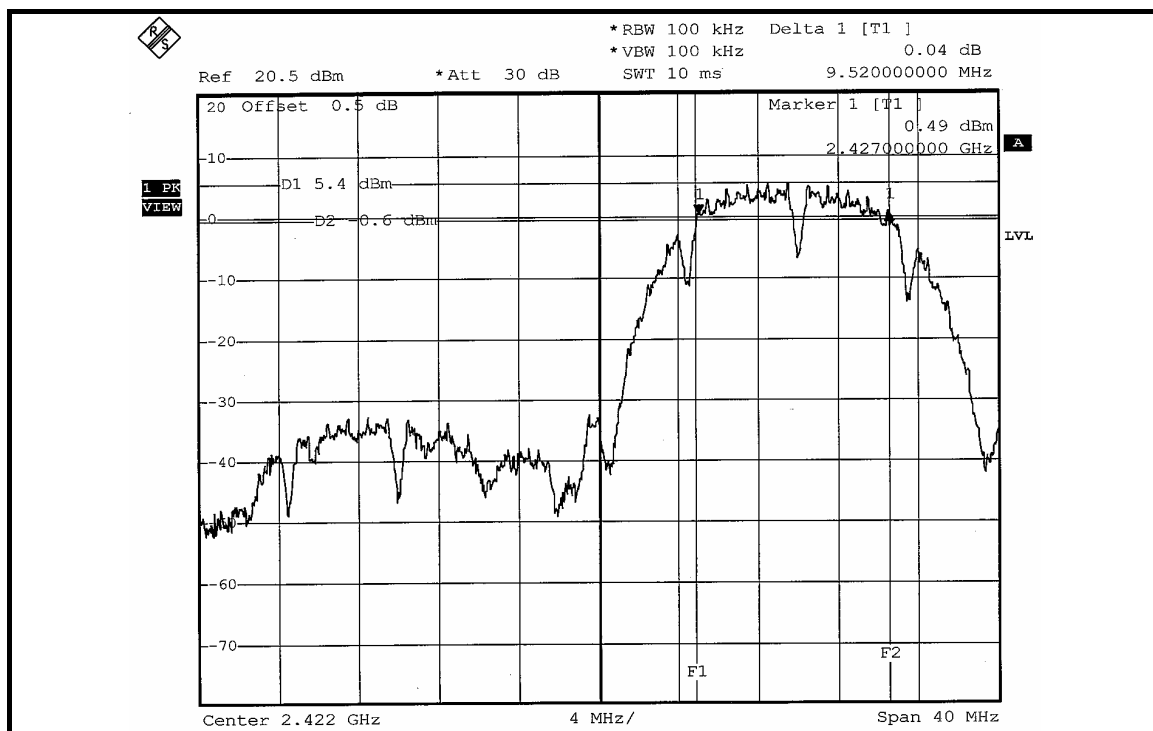
CH 4



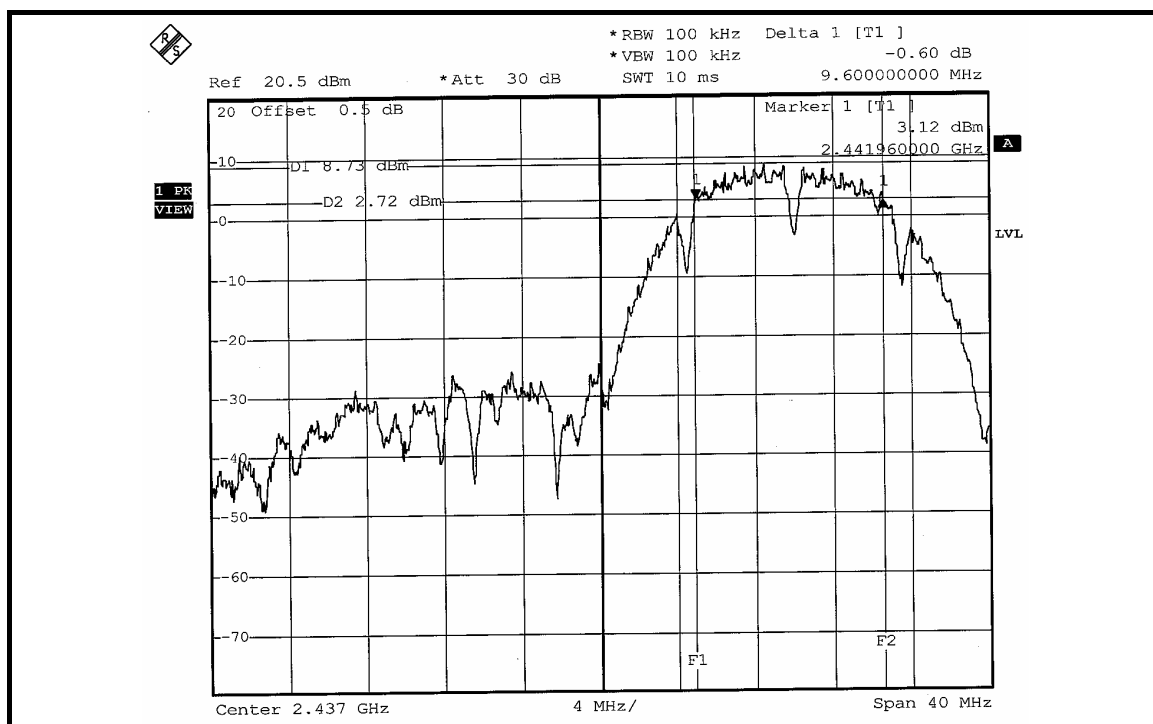
CH 7



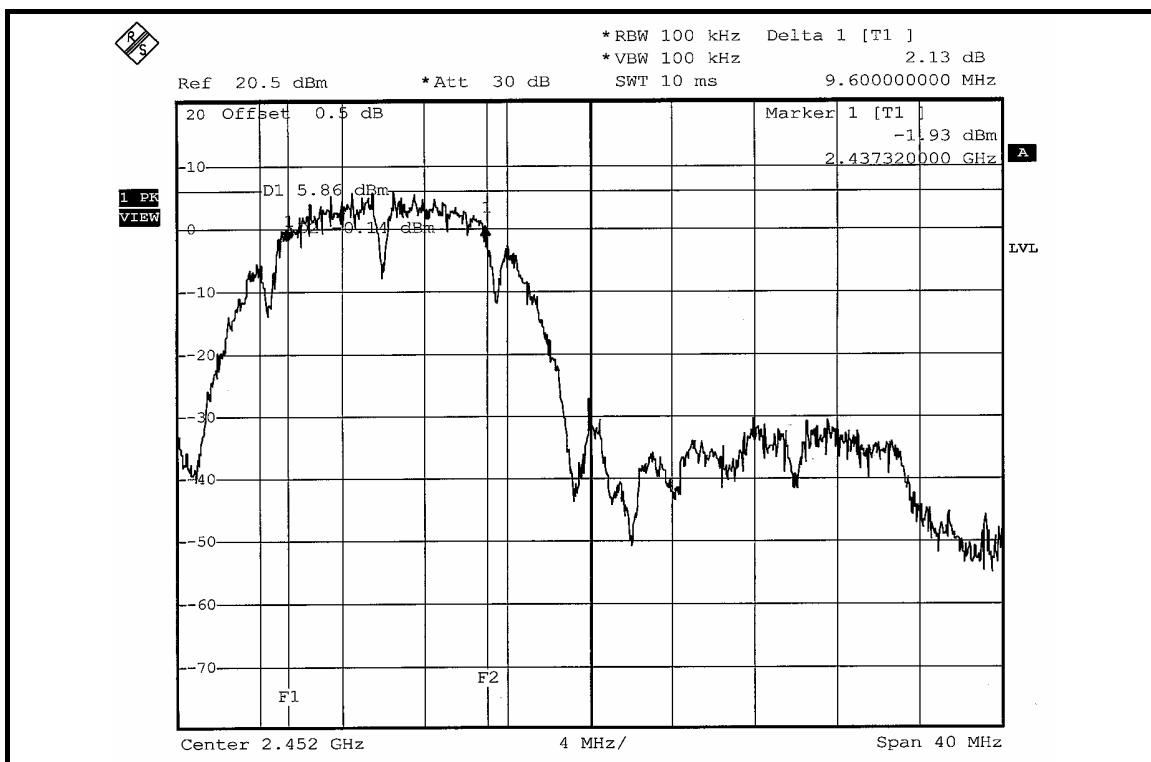
FOR CHAIN 1: CH 1



CH 4



CH 7



4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 07, 2006
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Nov. 28, 2006
NARDA DETECTOR	4503A	FSCM99899	NA

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

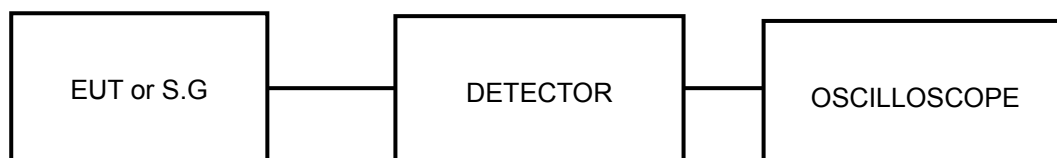
4.4.3 TEST PROCEDURES

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

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

4.4.7 TEST RESULTS

802.11b DSSS MODULATION:

MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	40.179	39.902	16.04	16.01	80.081	19.035	30	PASS
6	2437	113.240	112.720	20.54	20.52	225.960	23.540	30	PASS
11	2462	80.168	79.433	19.04	19.00	159.601	22.030	30	PASS

802.11g OFDM MODULATION:

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	51.168	50.933	17.09	17.07	102.101	20.090	30	PASS
6	2437	101.625	100.693	20.07	20.03	202.318	23.060	30	PASS
11	2462	45.082	44.771	16.54	16.51	89.853	19.535	30	PASS

DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	51.286	50.816	17.10	17.06	102.102	20.090	30	PASS
6	2437	101.158	100.925	20.05	20.04	202.083	23.055	30	PASS
11	2462	45.082	44.875	16.54	16.52	89.957	19.540	30	PASS

DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

MODULATION TYPE	BPSK	TRANSFER RATE	15Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2422	32.137	31.915	15.07	15.04	64.052	18.065	30	PASS
4	2437	50.933	50.582	17.07	17.04	101.515	20.065	30	PASS
7	2452	28.840	28.510	14.60	14.55	57.350	17.585	30	PASS

802.11b (CB mode) OFDM MODULATION: DUAL TX:

MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2422	64.269	63.387	18.08	18.02	127.636	21.060	30	PASS
4	2437	127.350	126.183	21.05	21.01	253.533	24.040	30	PASS
7	2452	63.533	63.241	18.03	18.01	126.774	21.030	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

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

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

4.5.3 TEST PROCEDURE

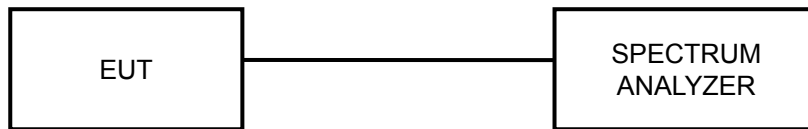
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6.

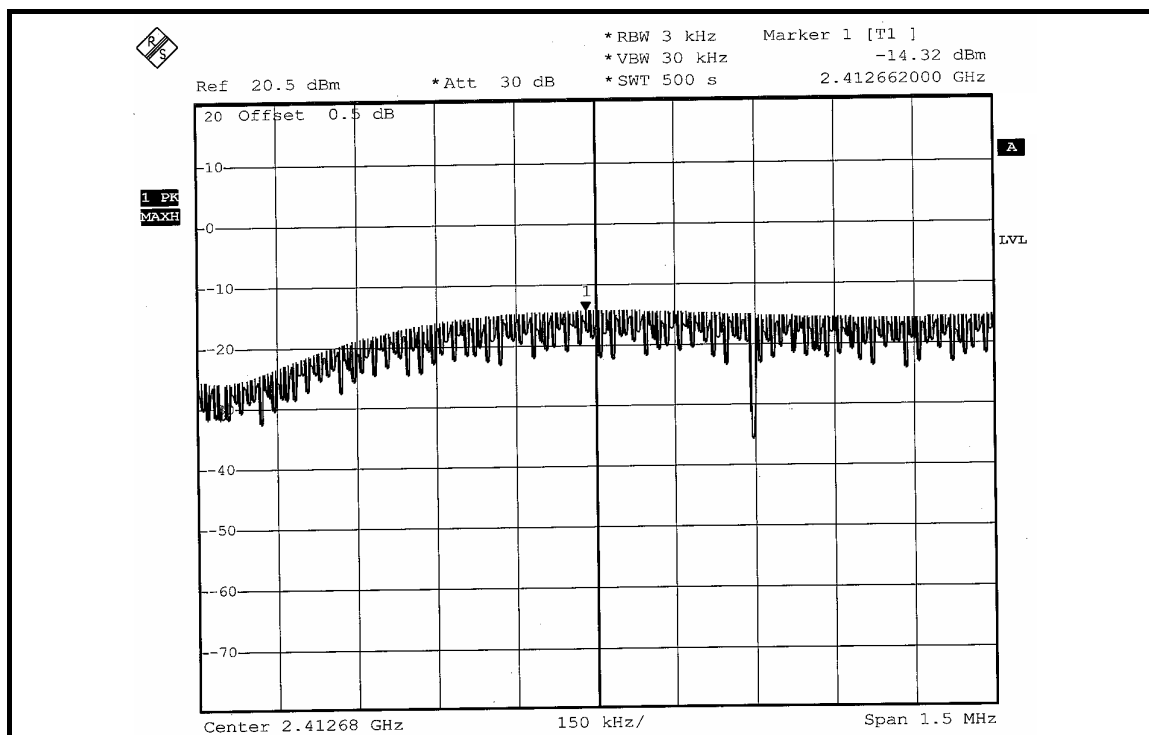
4.5.7 TEST RESULTS

802.11b DSSS MODULATION:

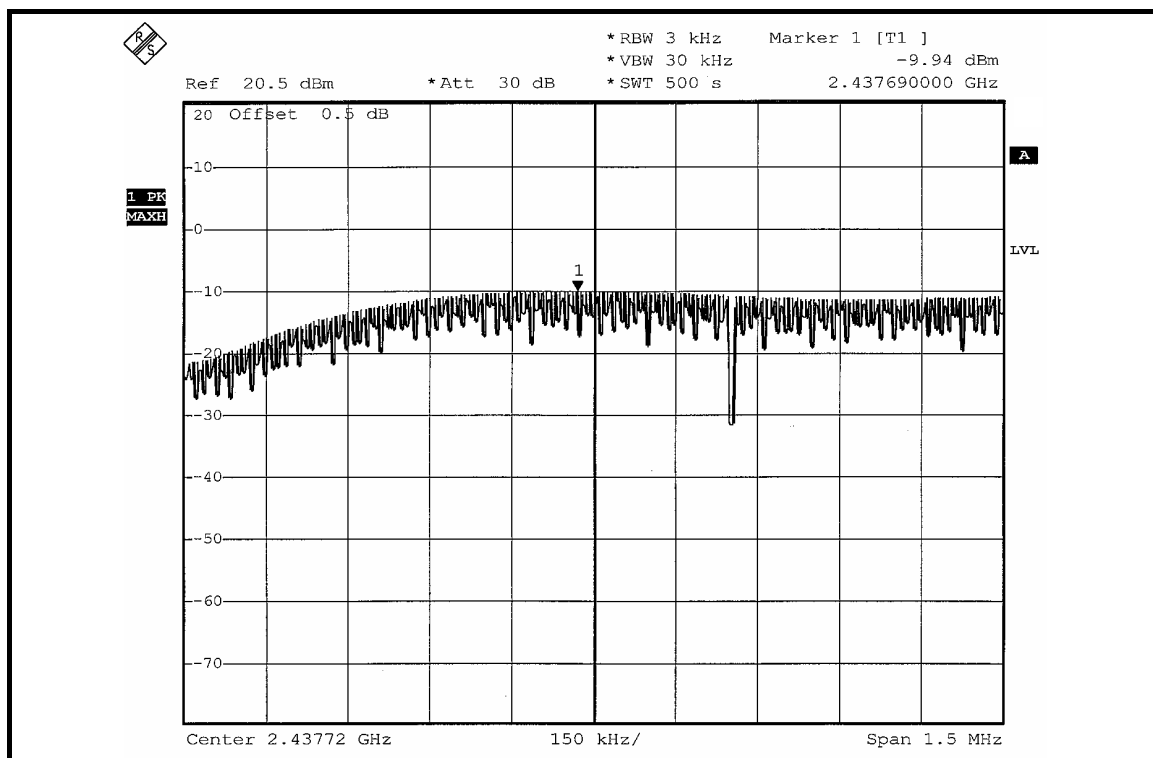
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	0.037	0.036	-14.32	-14.40	0.073	-11.367	8	PASS
6	2437	0.101	0.100	-9.94	-10.01	0.201	-6.968	8	PASS
11	2462	0.077	0.076	-11.13	-11.22	0.153	-8.153	8	PASS

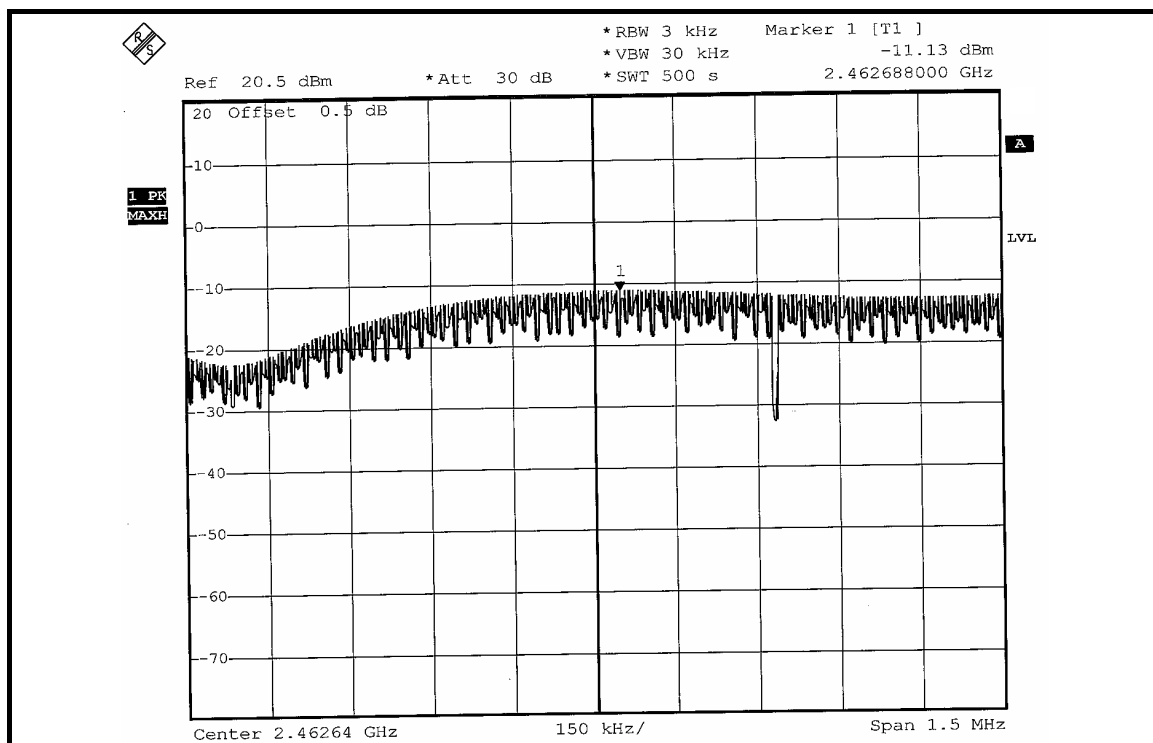
FOR CHAIN 0: CH 1



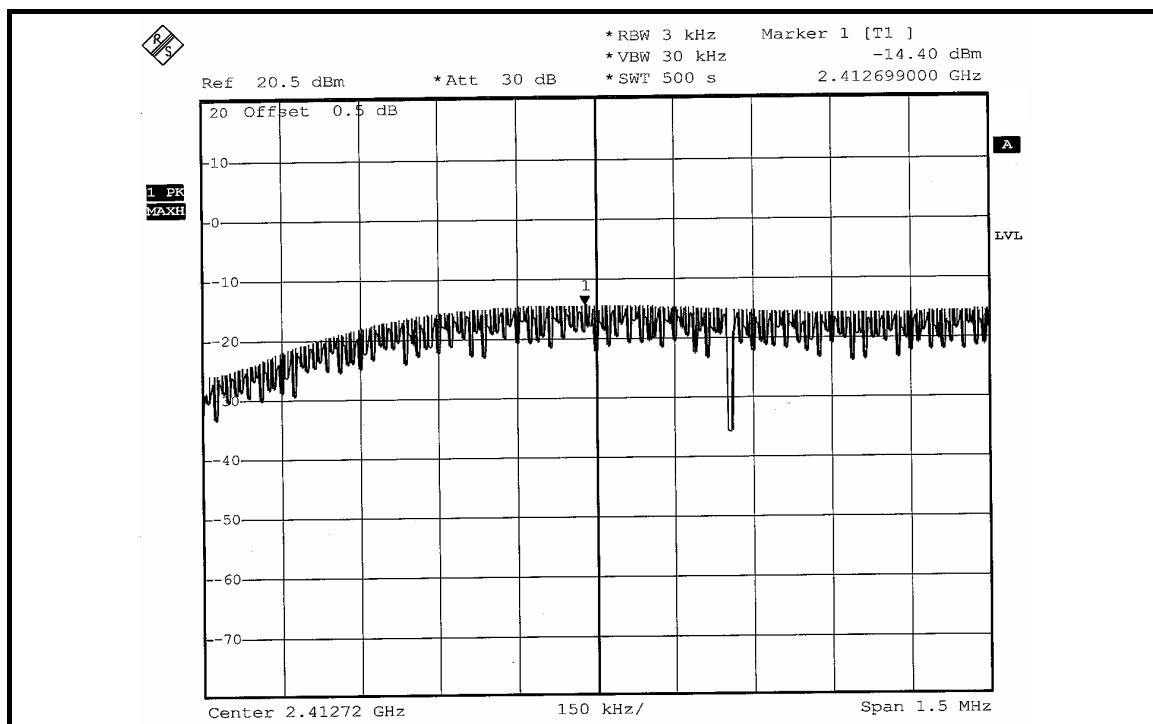
CH 6



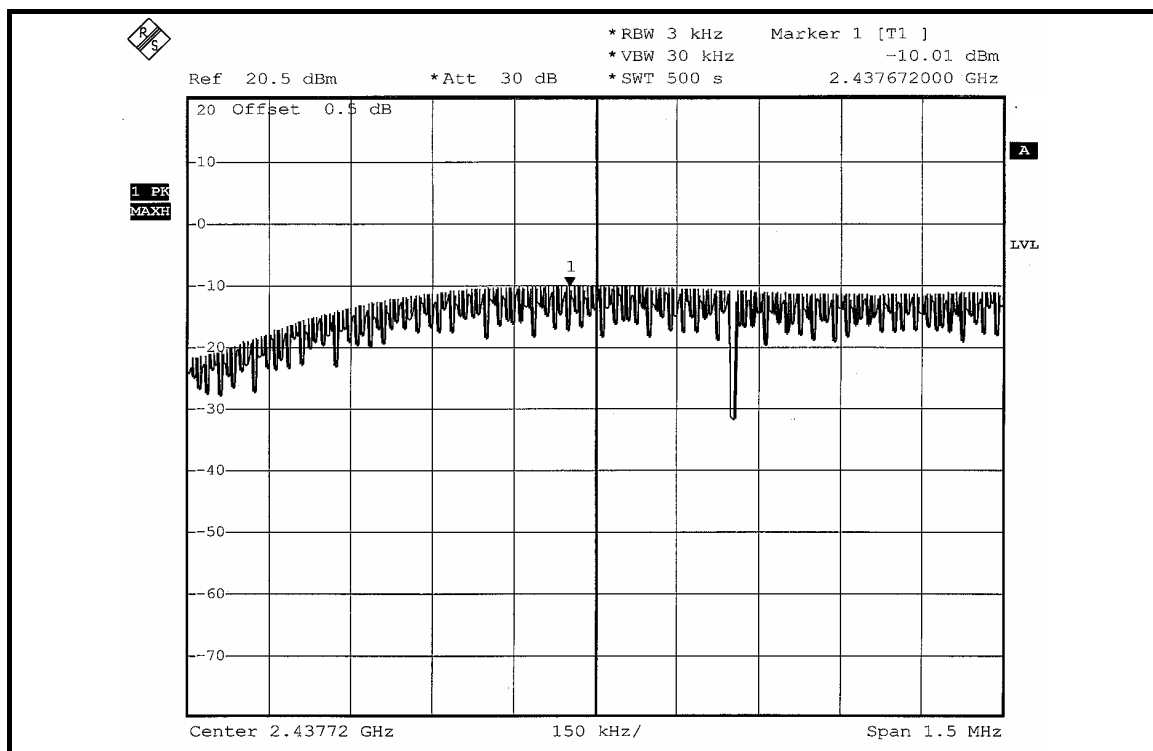
CH 11



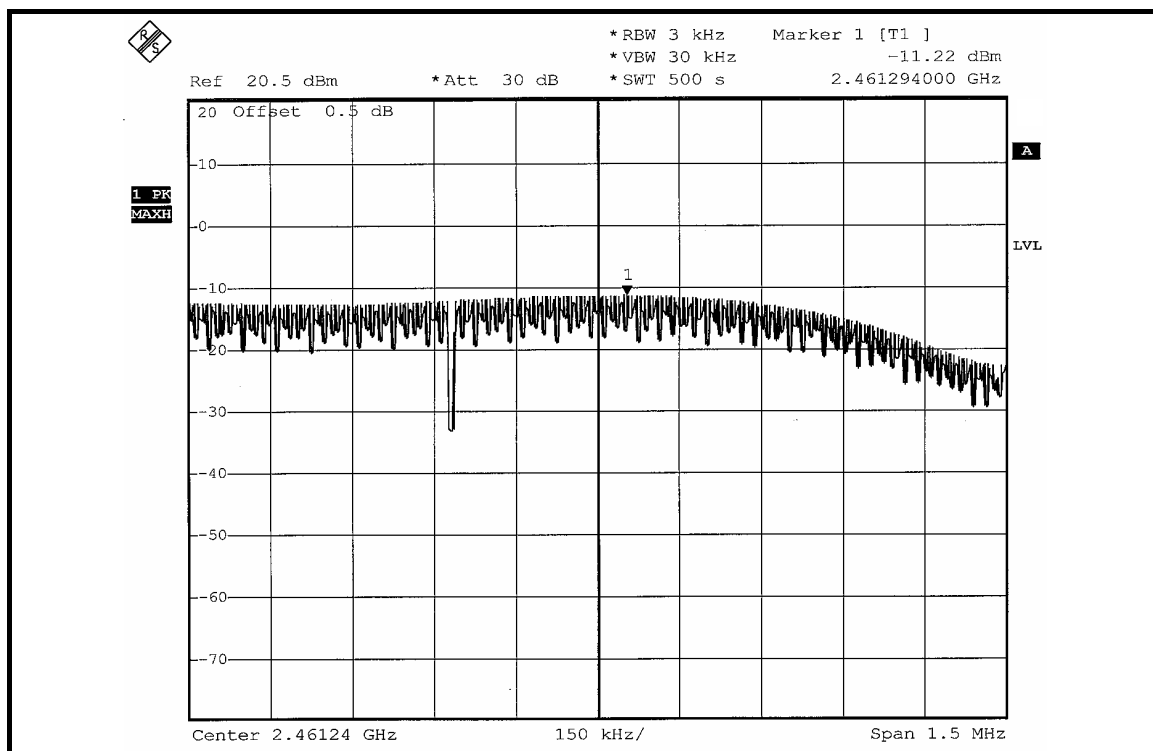
FOR CHAIN 1: CH 1



CH 6



CH 11

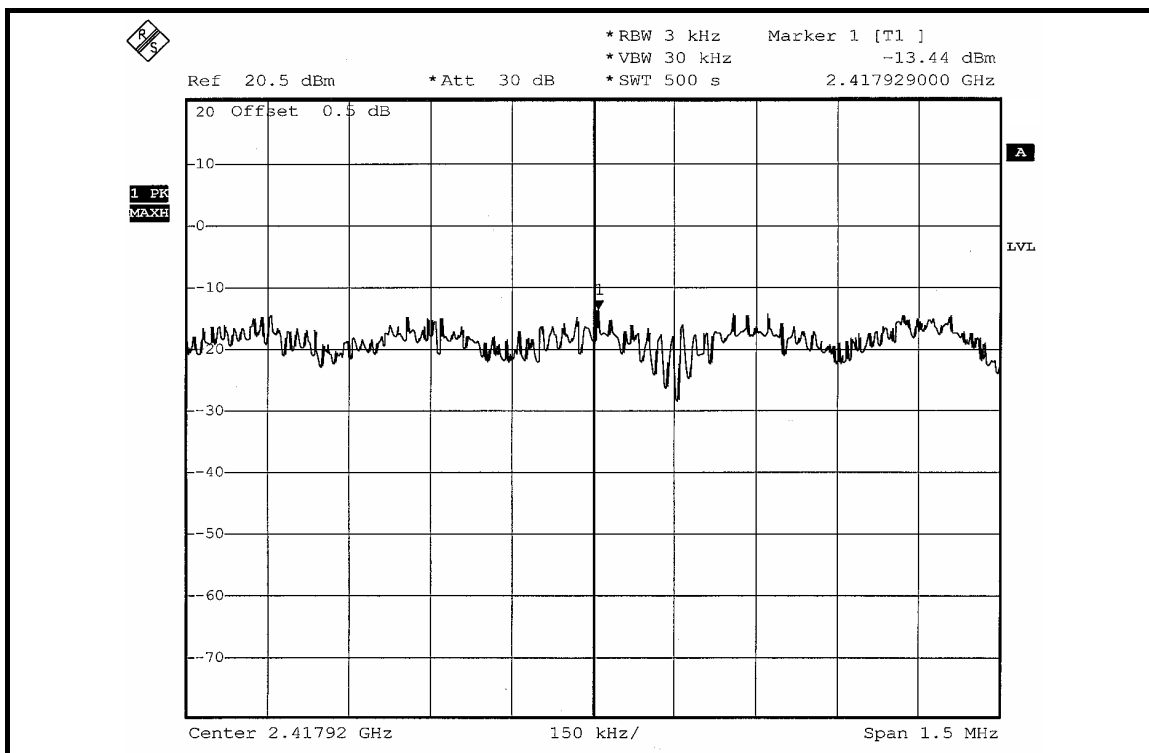


802.11g OFDM MODULATION:

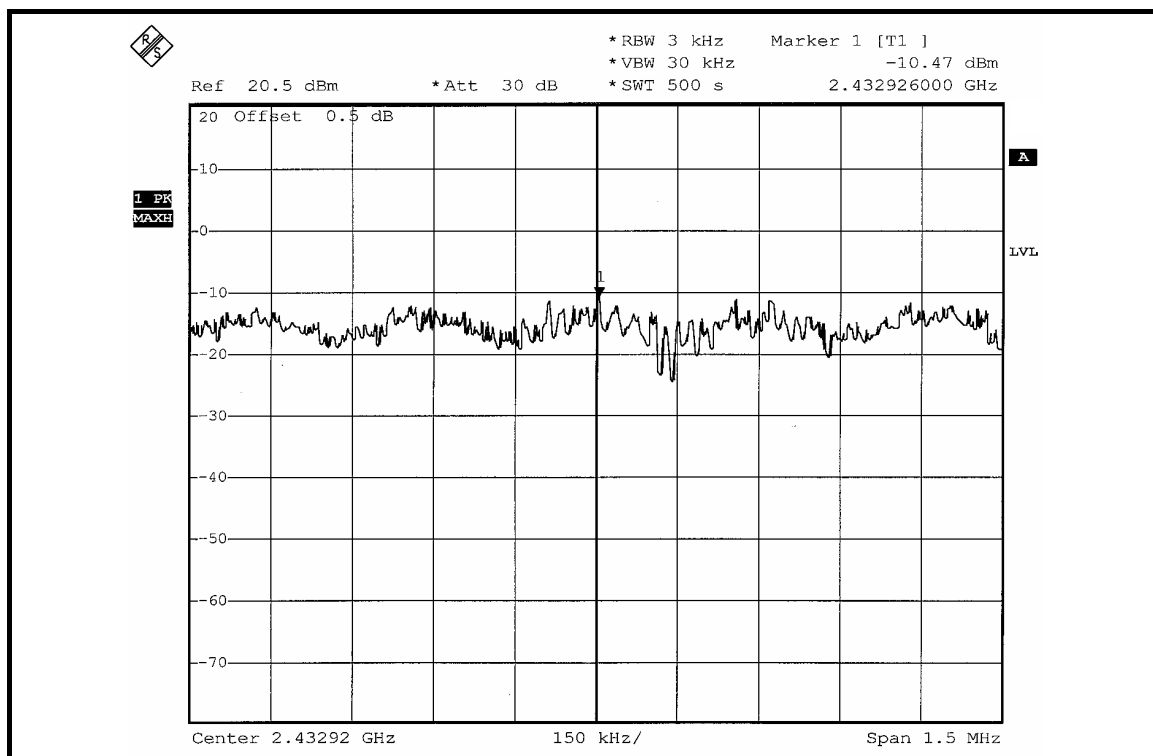
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	0.045	0.041	-13.44	-13.87	0.086	-10.655	8	PASS
6	2437	0.090	0.087	-10.47	-10.61	0.177	-7.520	8	PASS
11	2462	0.041	0.040	-13.91	-13.97	0.081	-10.915	8	PASS

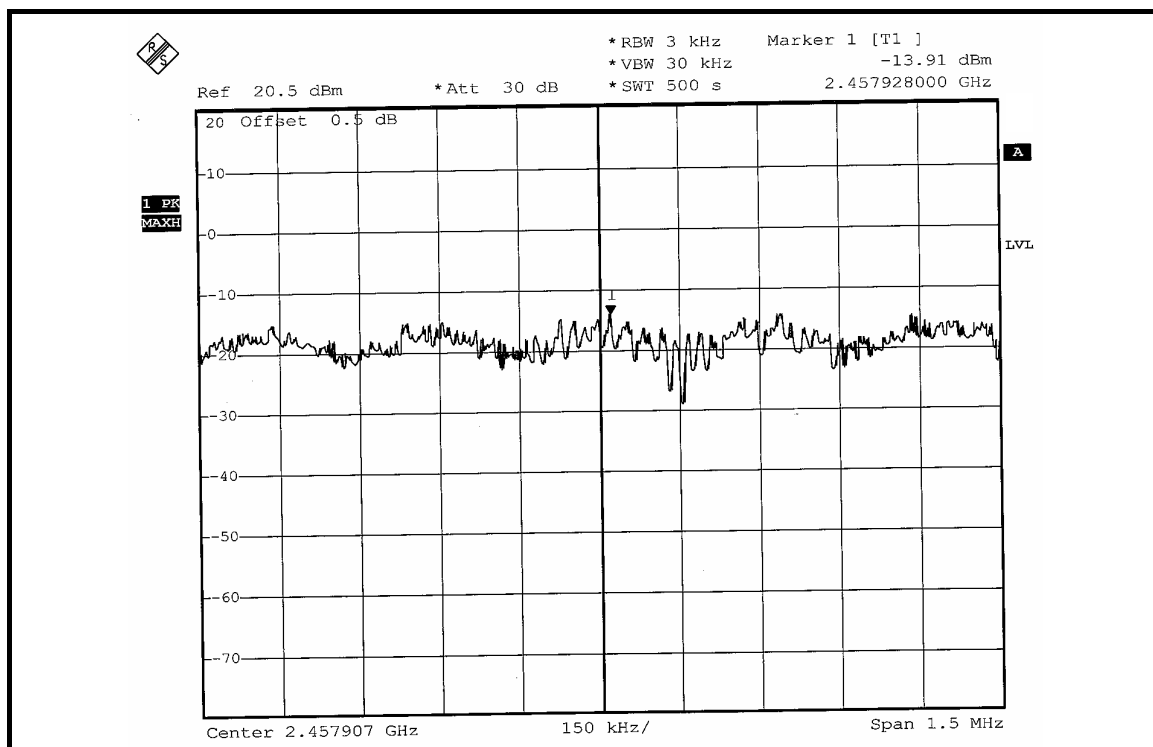
FOR CHAIN 0: CH 1



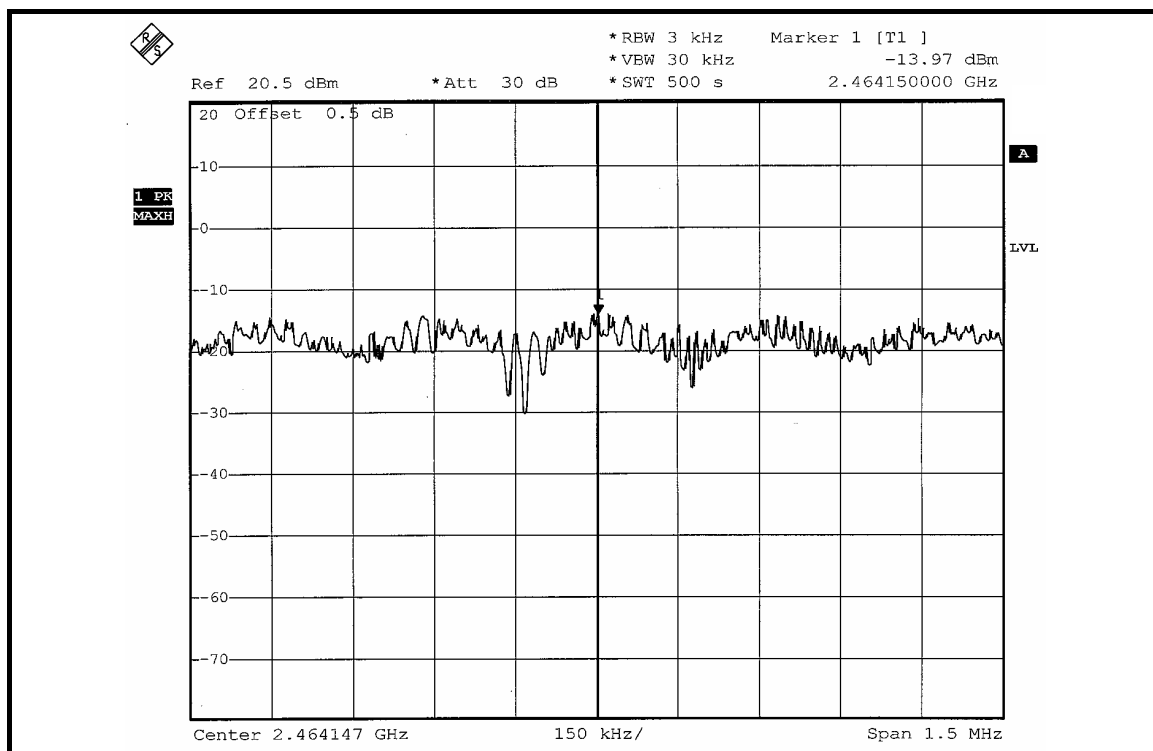
CH 6



CH 11



CH 11

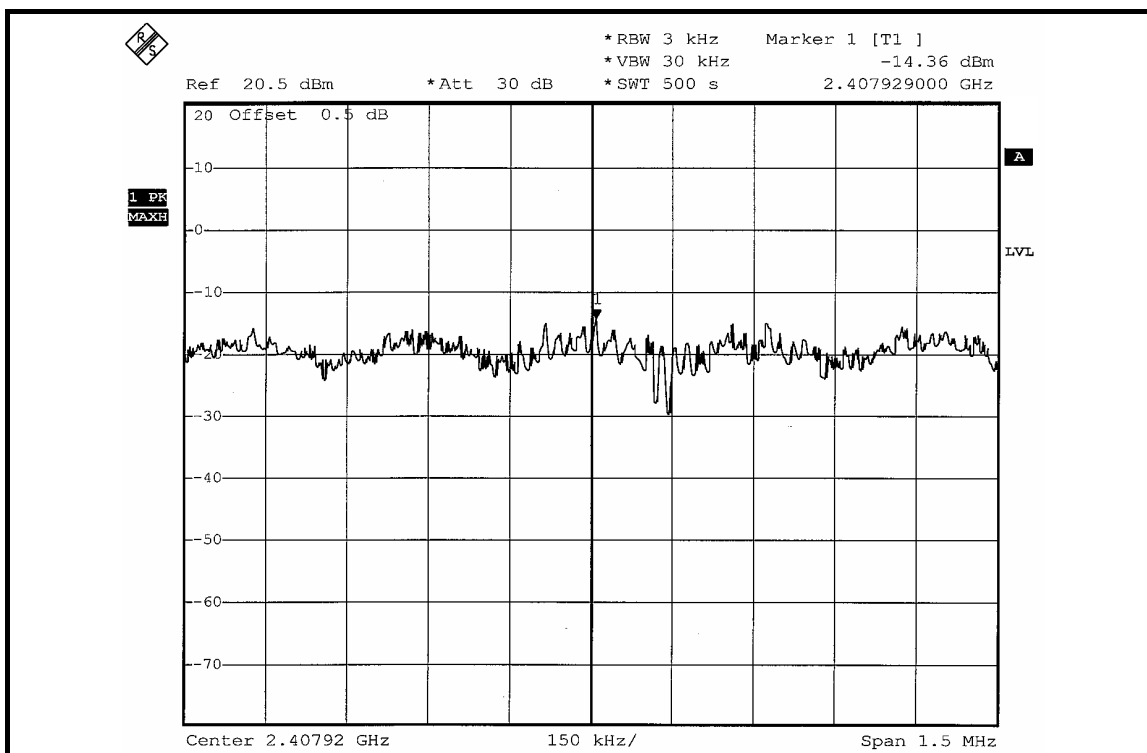


DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

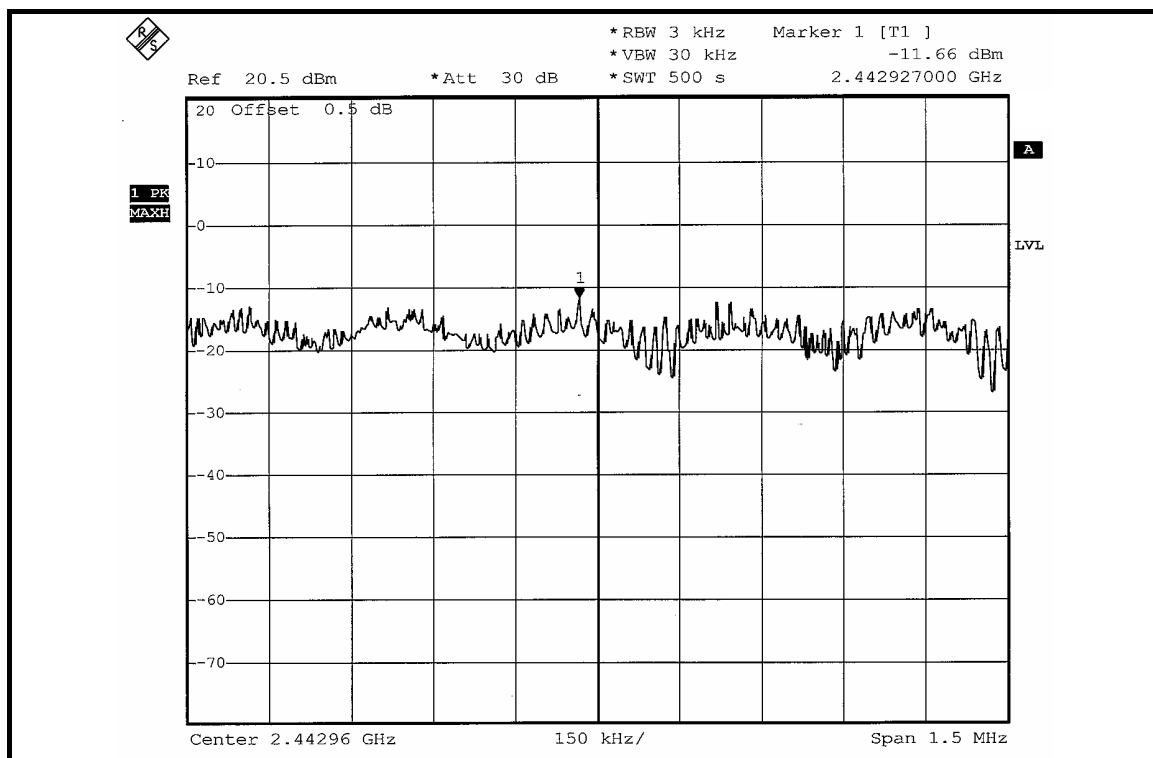
MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	0.037	0.039	-14.36	-14.12	0.076	-11.192	8	PASS
6	2437	0.068	0.062	-11.66	-12.06	0.130	-8.861	8	PASS
11	2462	0.033	0.033	-14.76	-14.83	0.066	-11.805	8	PASS

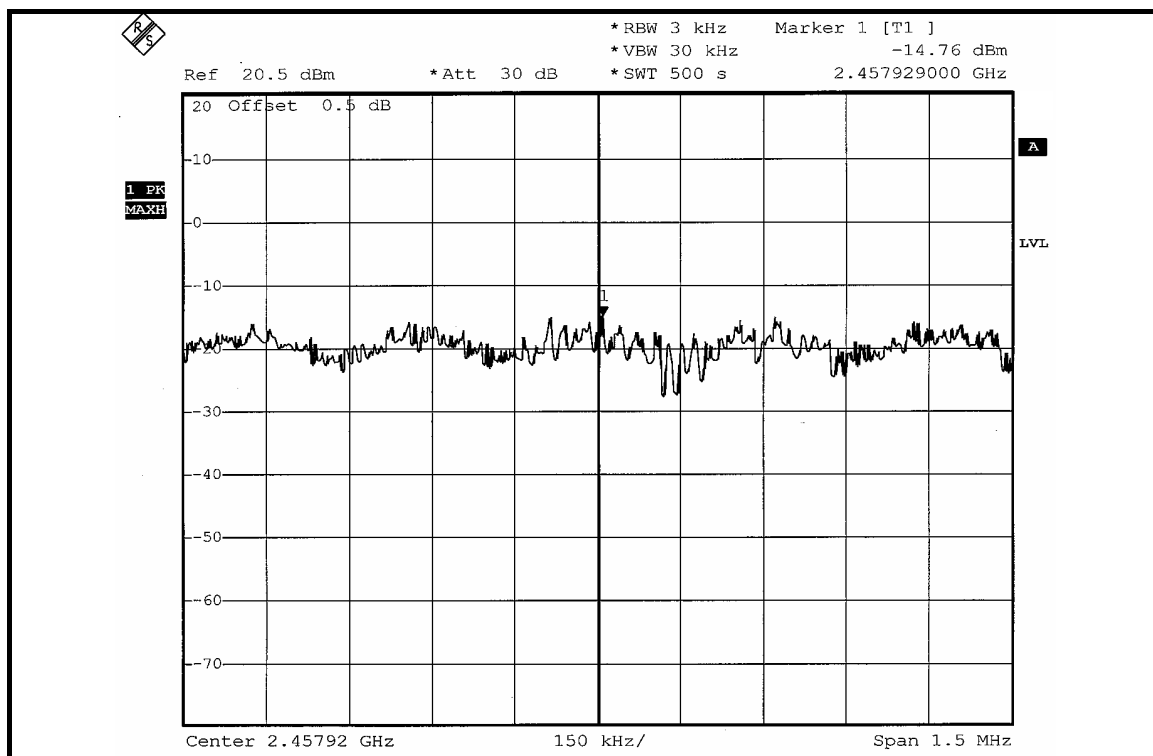
FOR CHAIN 0: CH 1



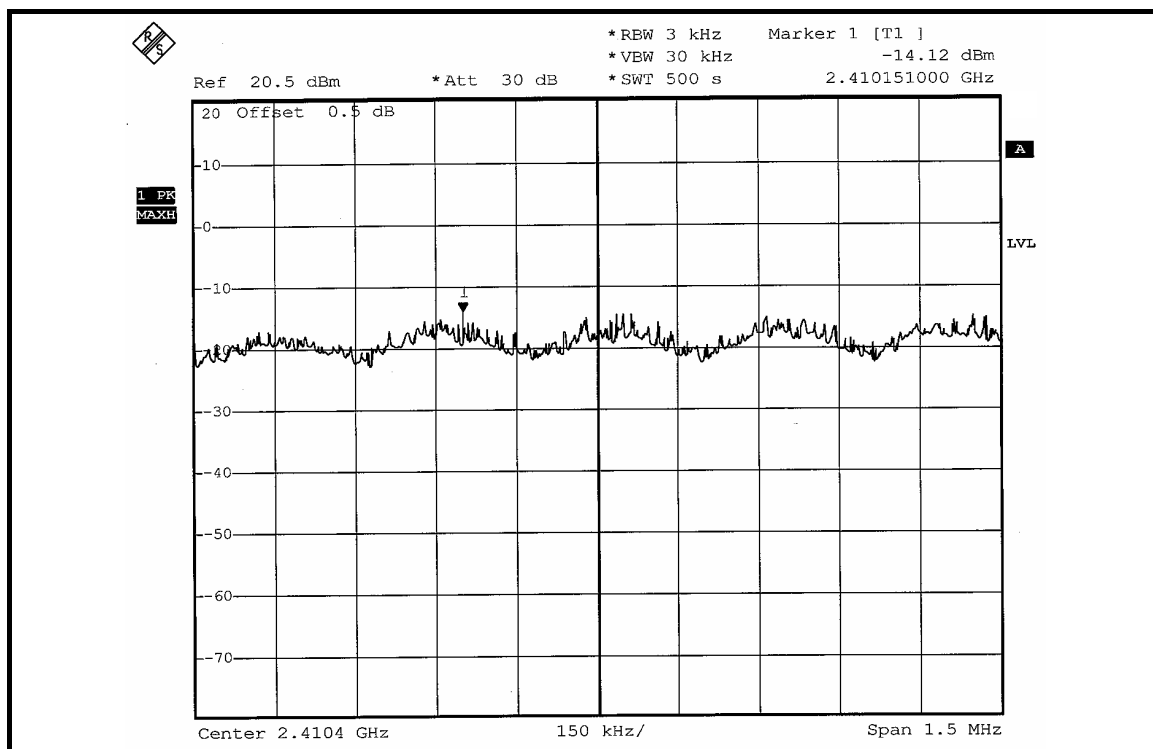
CH 6



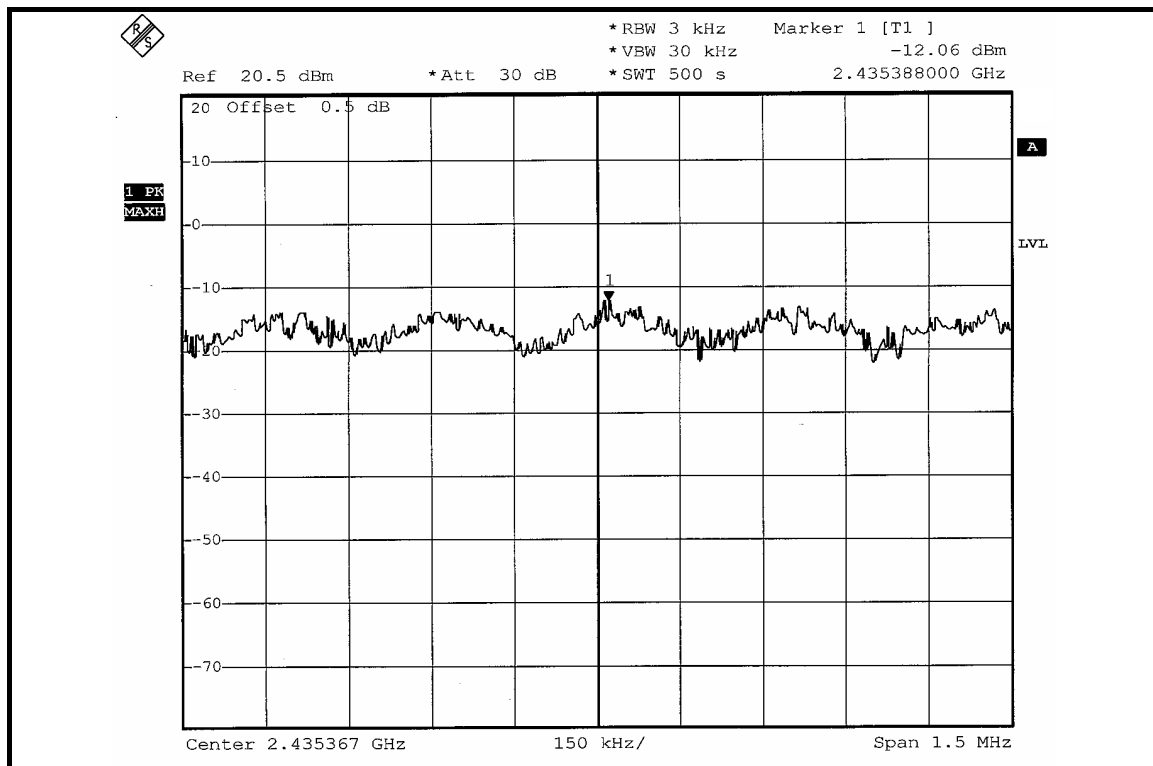
CH 11



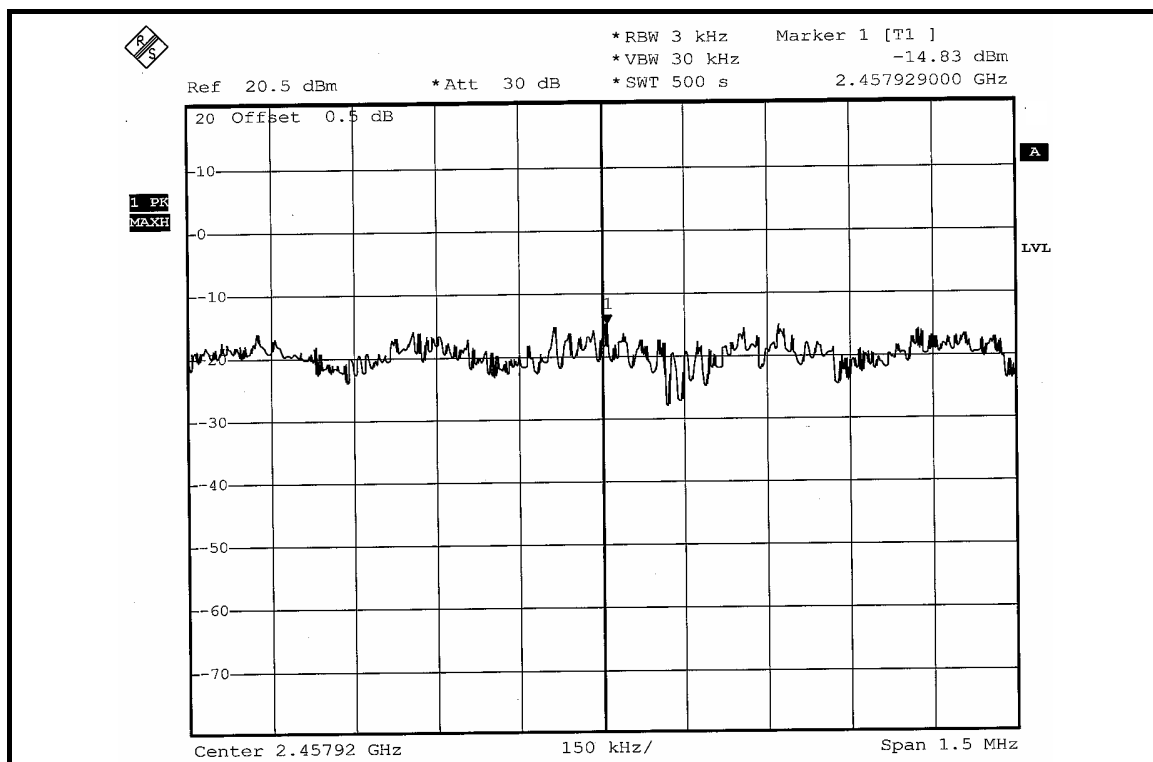
FOR CHAIN 1: CH 1



CH 6



CH 11

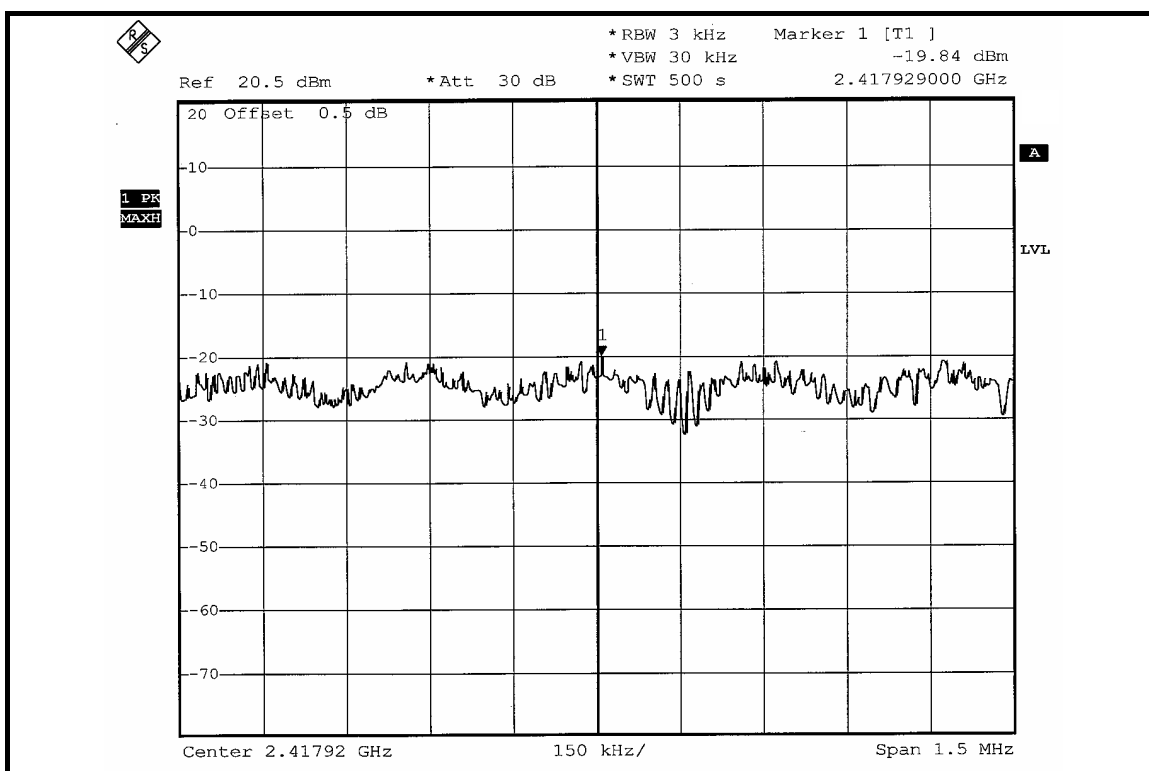


DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

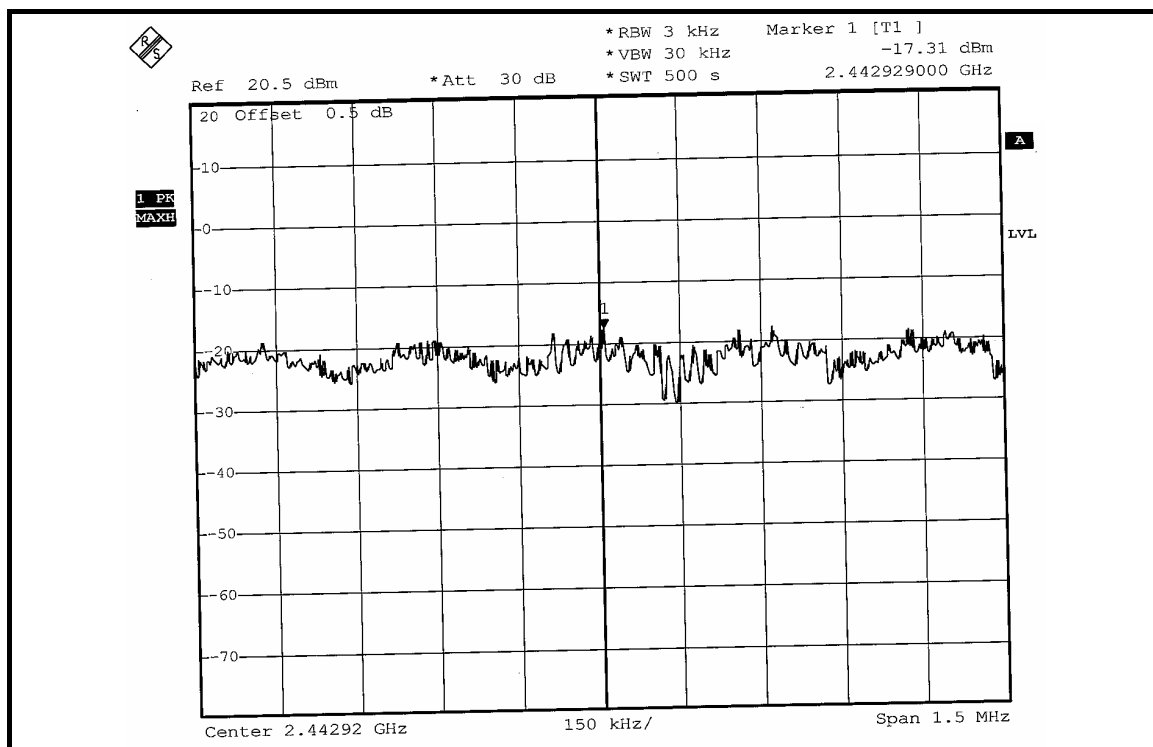
MODULATION TYPE	BPSK	TRANSFER RATE	15Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2422	0.010	0.010	-19.84	-20.02	0.020	-16.990	8	PASS
4	2437	0.019	0.018	-17.31	-17.36	0.037	-14.318	8	PASS
7	2452	0.009	0.009	-20.35	-20.45	0.018	-17.447	8	PASS

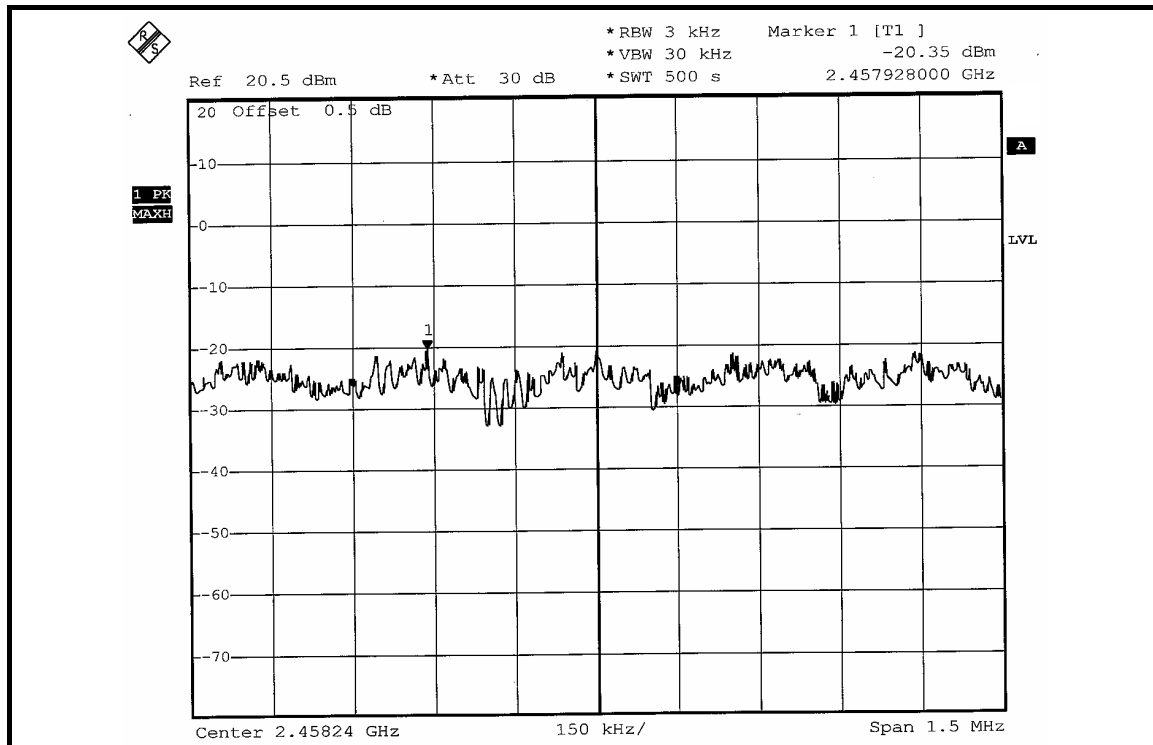
FOR CHAIN 0: CH 1



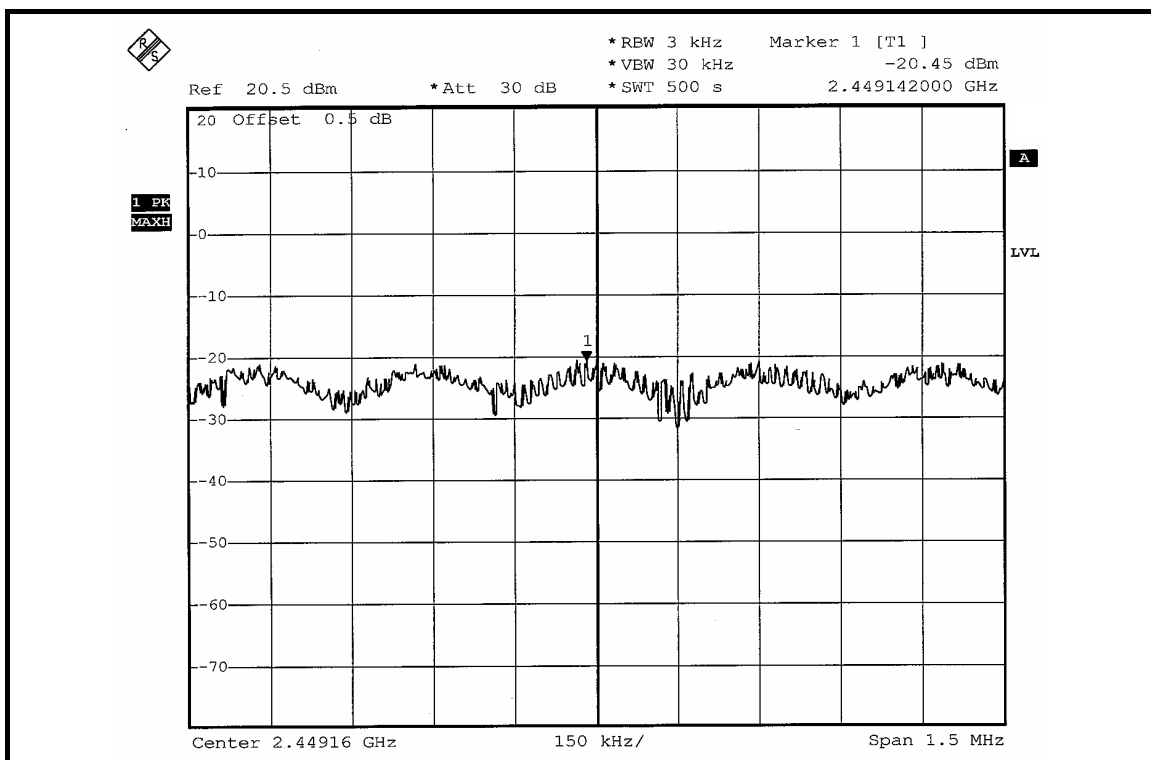
CH 4



CH 7



CH 7

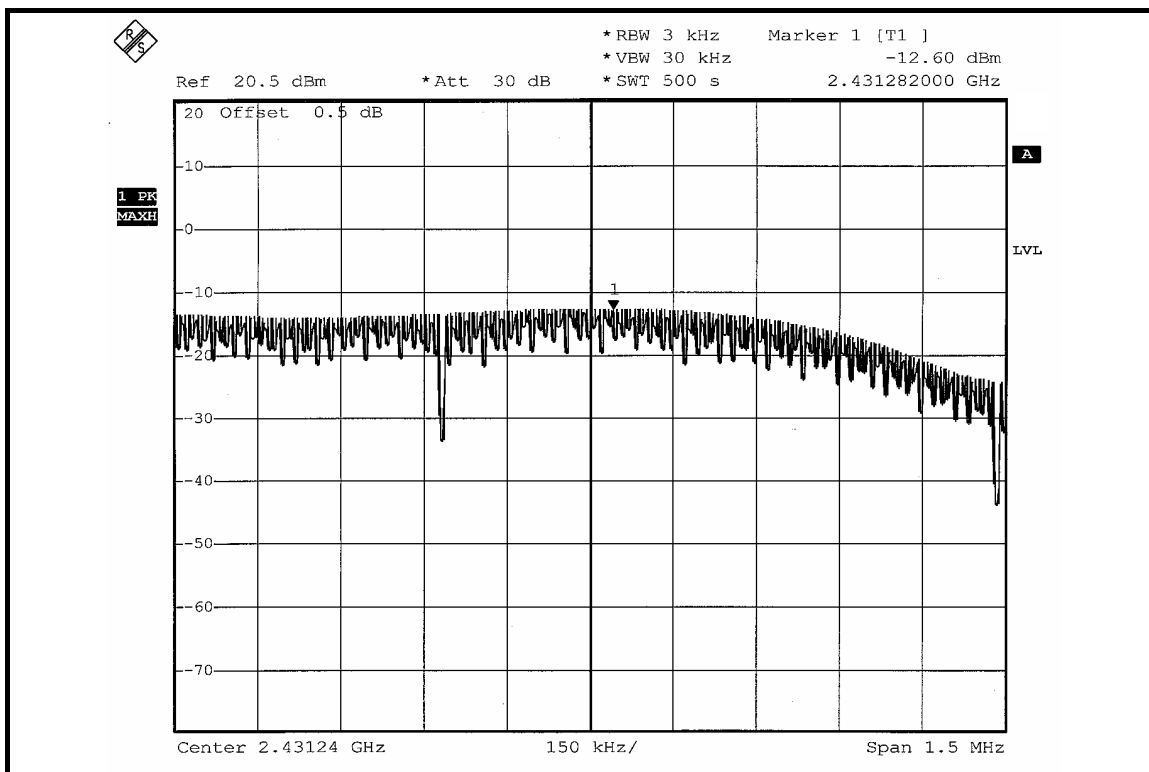


802.11b (CB mode) OFDM MODULATION: DUAL TX:

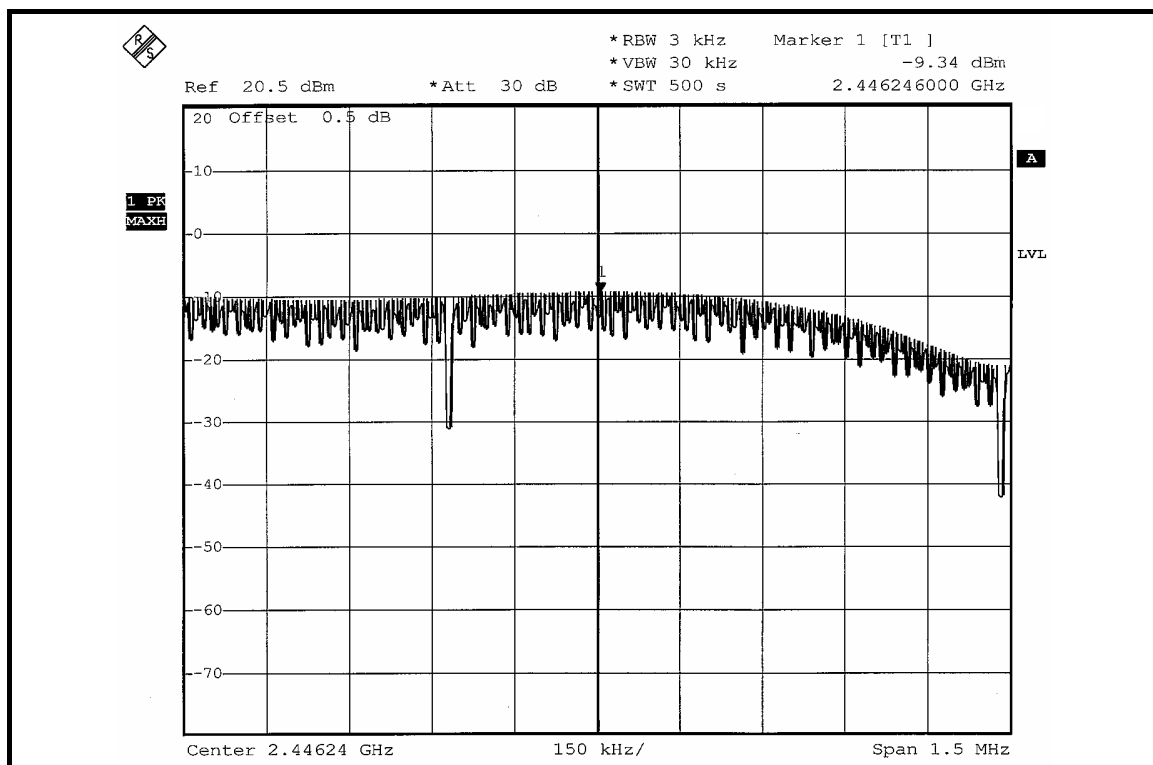
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2422	0.055	0.052	-12.60	-12.85	0.107	-9.706	8	PASS
4	2437	0.116	0.106	-9.34	-9.74	0.222	-6.536	8	PASS
7	2452	0.060	0.058	-12.23	-12.33	0.118	-9.281	8	PASS

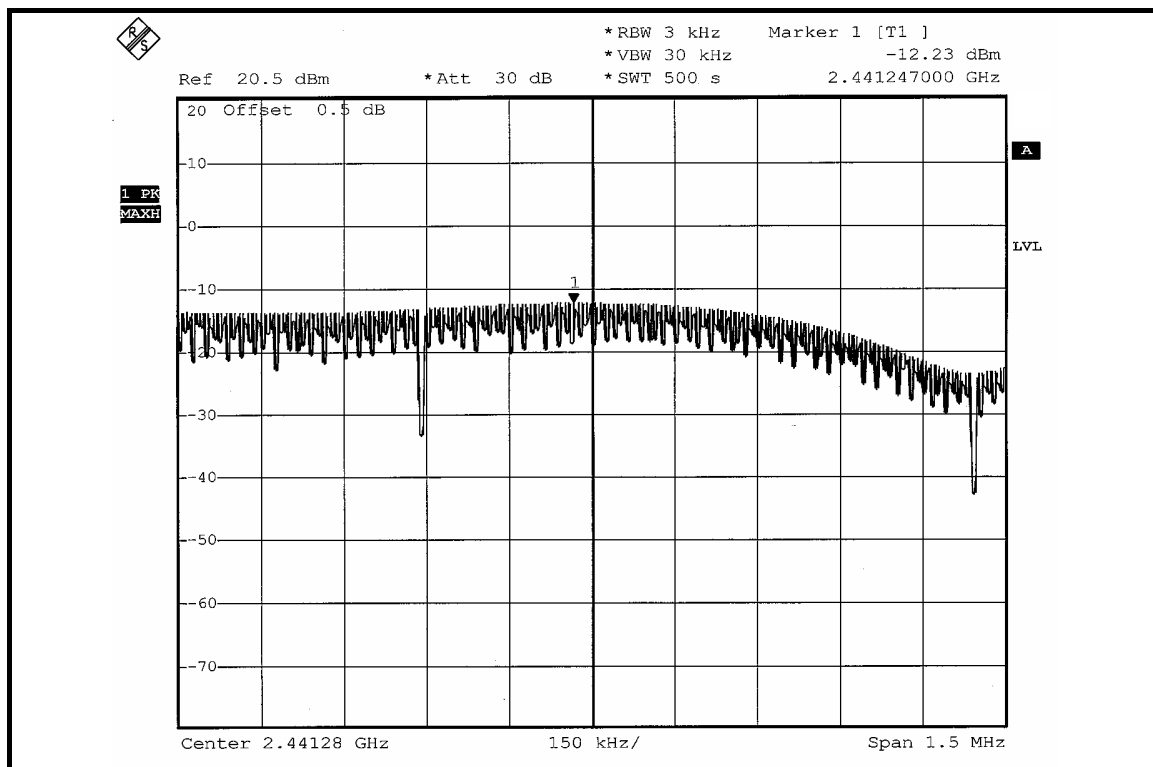
FOR CHAIN 0: CH 1



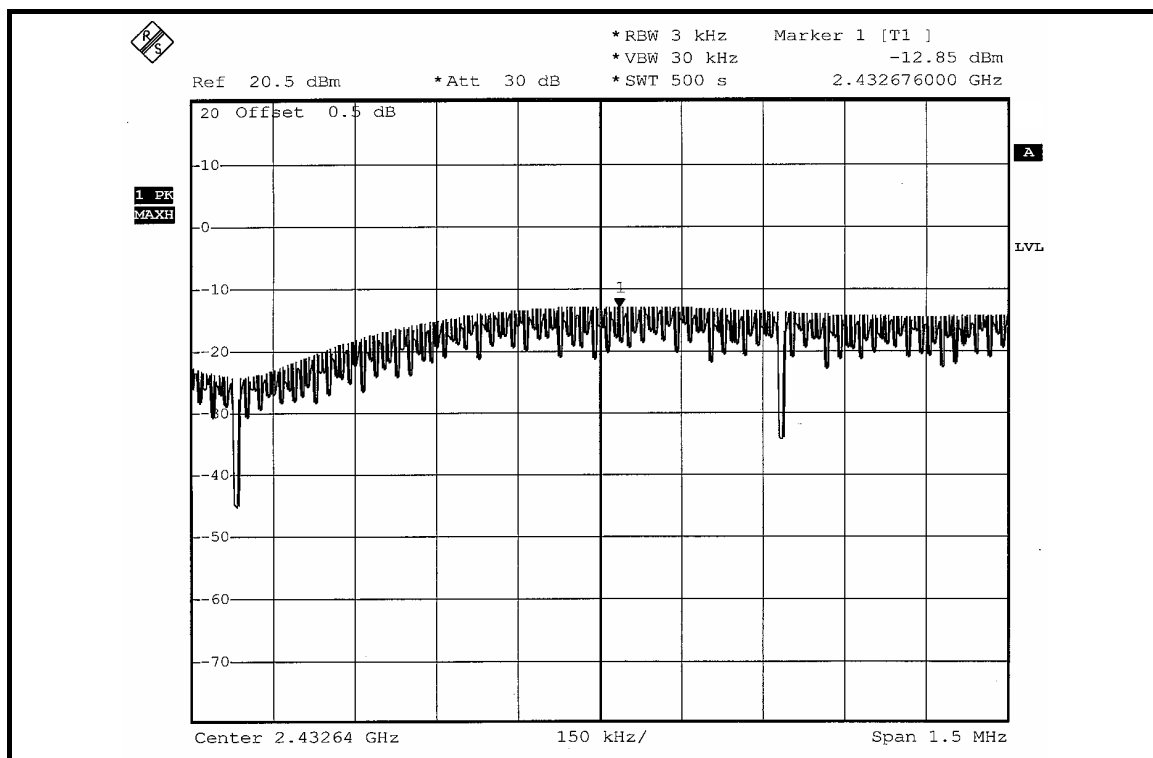
CH 4



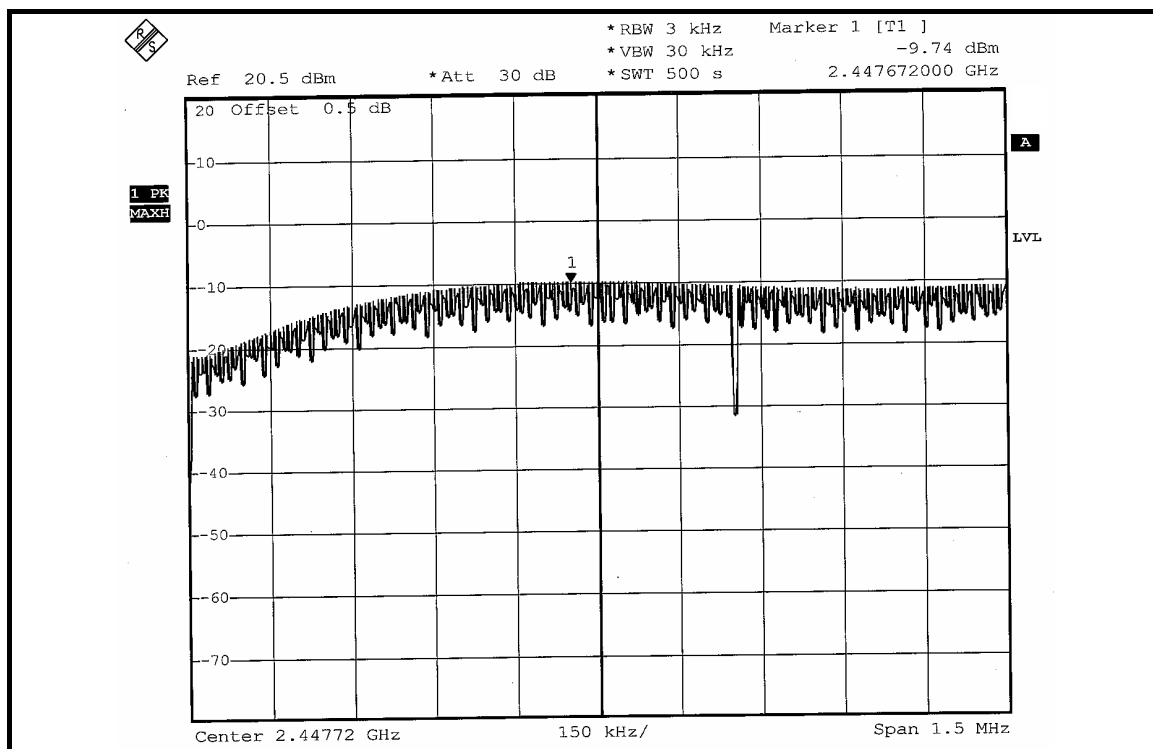
CH 7



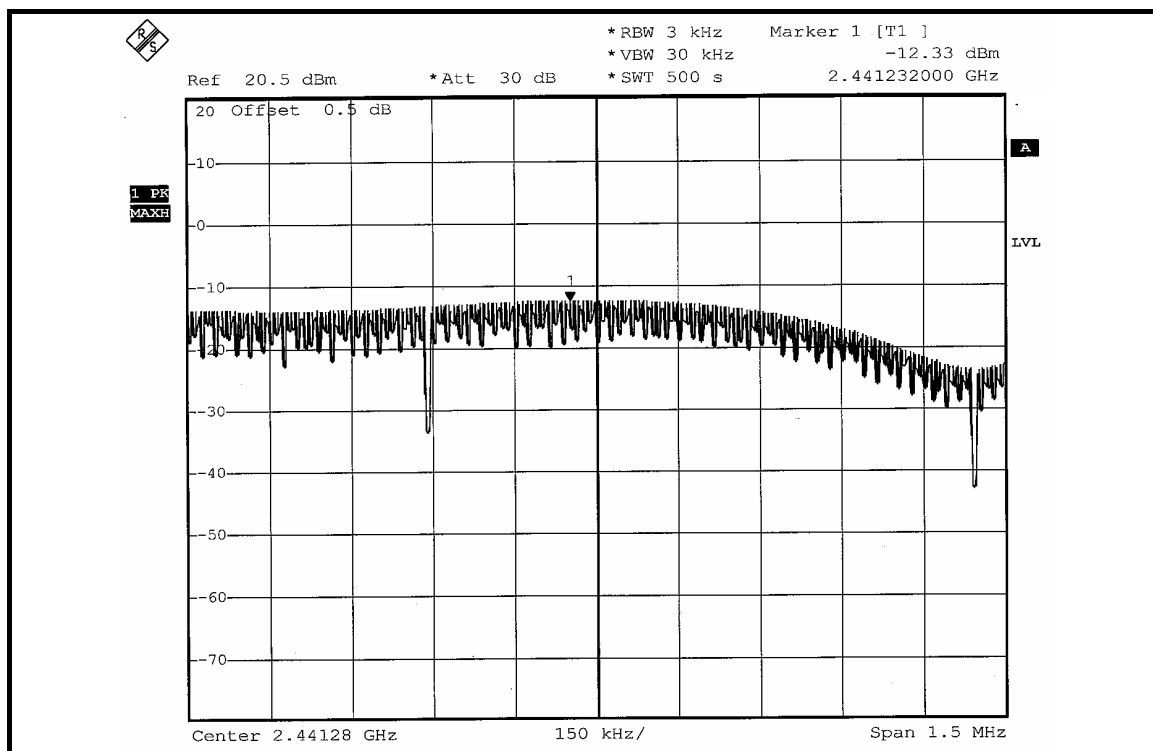
FOR CHAIN 1: CH 1



CH 4



CH 7



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

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

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

4.6.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = VBW = 100kHz; Average RBW = 1MHz, VBW = 10Hz)

NOTE: The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.

4.6.4 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 30 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:

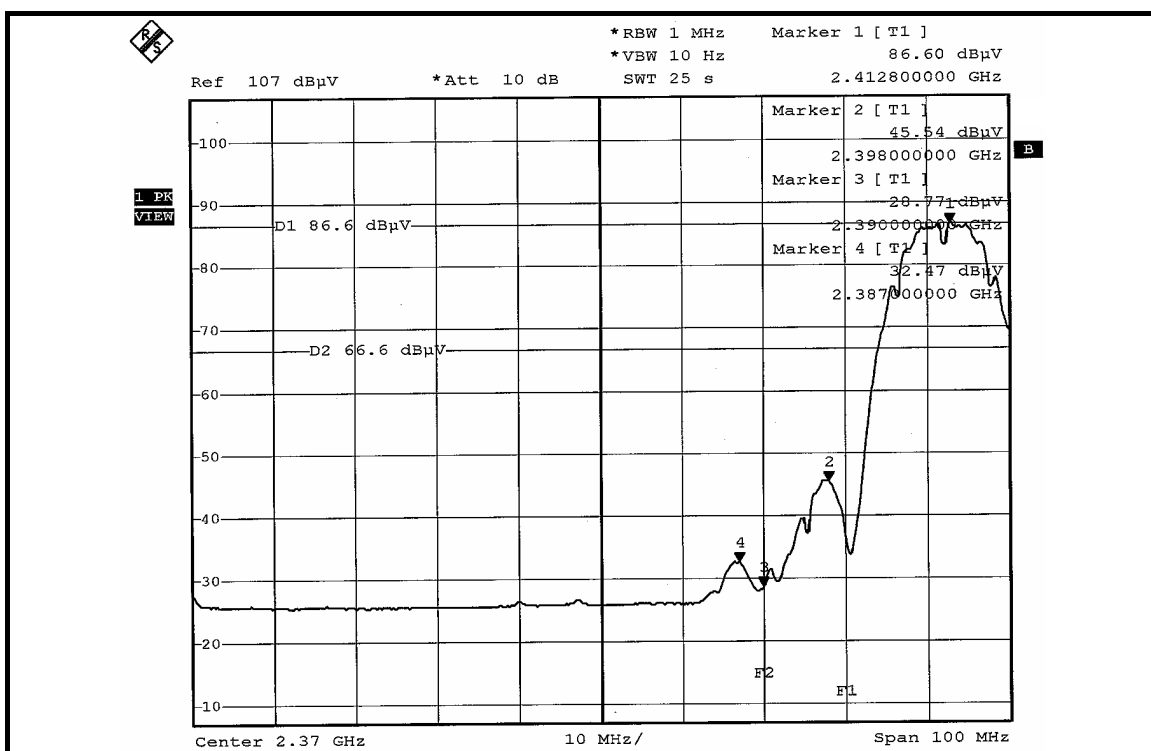
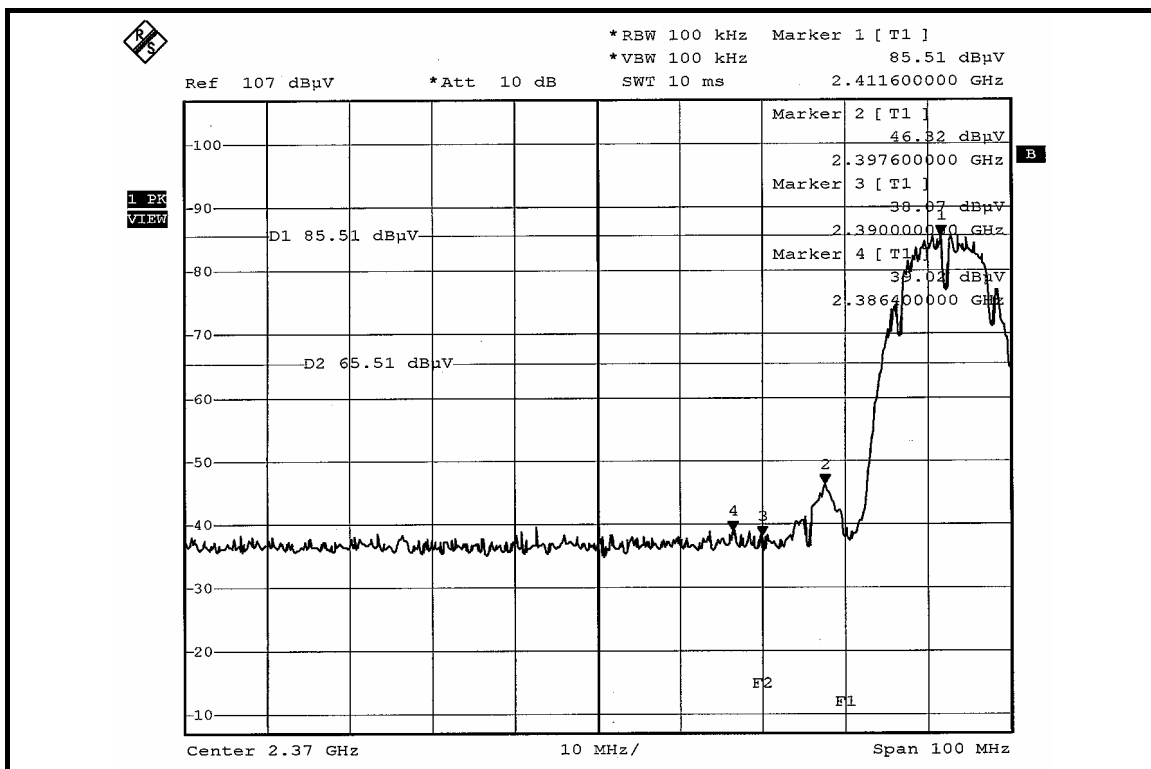
The band edge emission plot of DSSS technique on the next page shows 46.49dBc between carrier maximum power and local maximum emission in restrict band (2.3864GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 107.89dBuV/m (Peak), so the maximum field strength in restrict band is $107.89 - 46.49 = 61.40$ dBuV/m which is under 74dBuV/m limit.

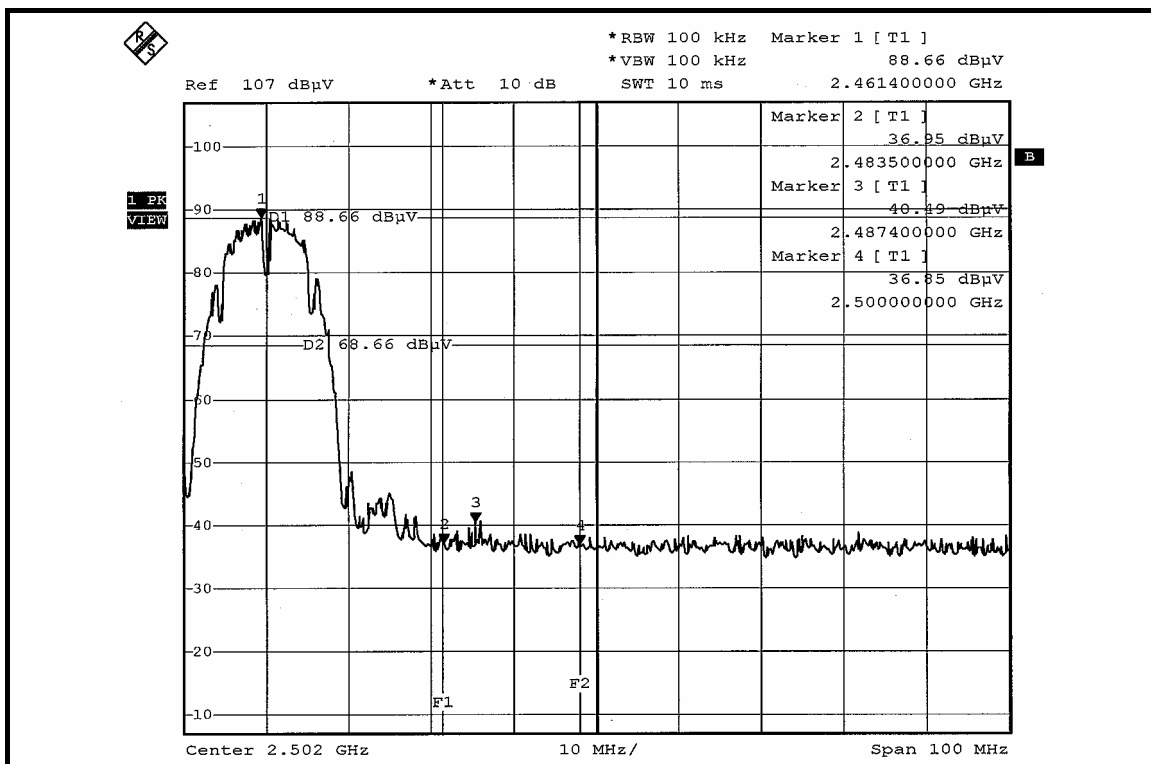
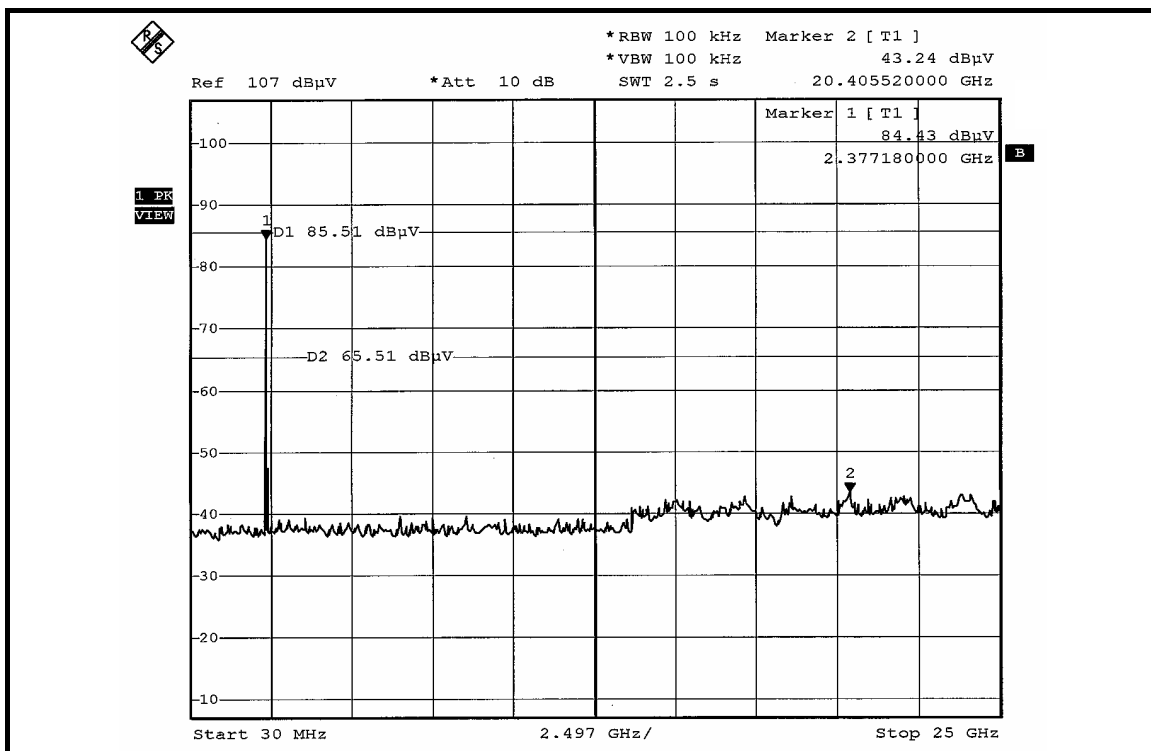
The band edge emission plot of DSSS technique on the next page shows 54.13dBc between carrier maximum power and local maximum emission in restrict band (2.3870GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 104.54dBuV/m (Average), so the maximum field strength in restrict band is $104.54 - 54.13 = 50.41$ dBuV/m which is under 54dBuV/m limit.

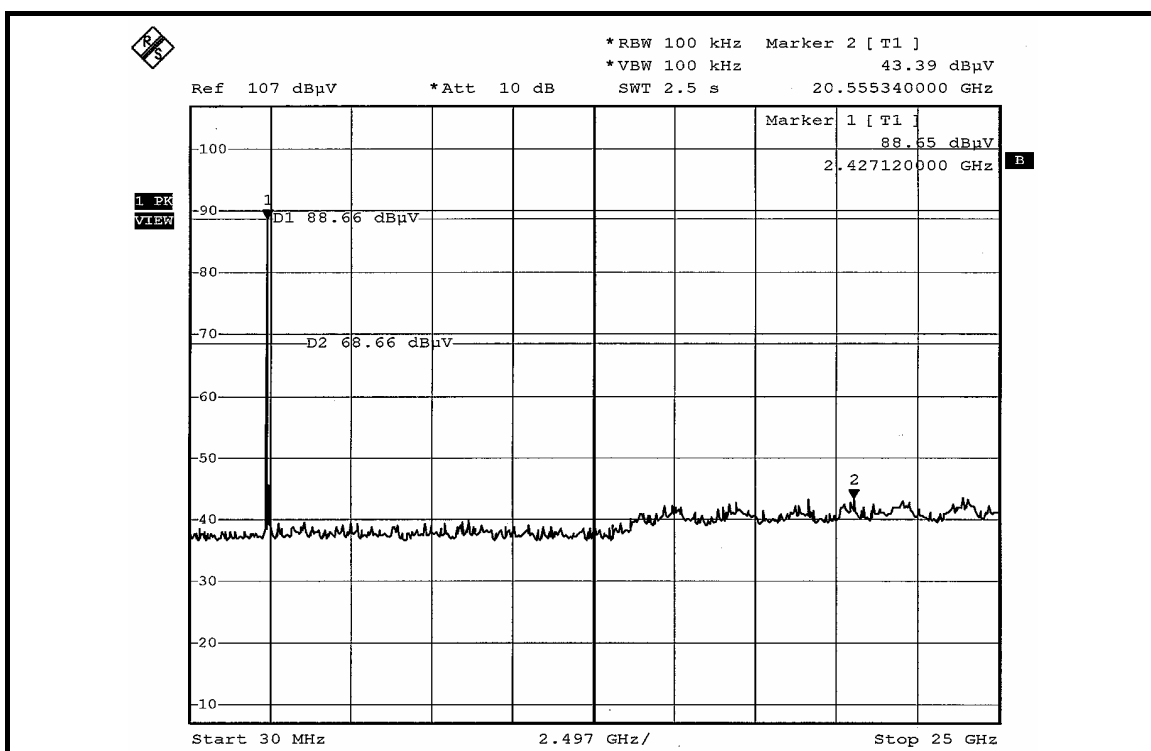
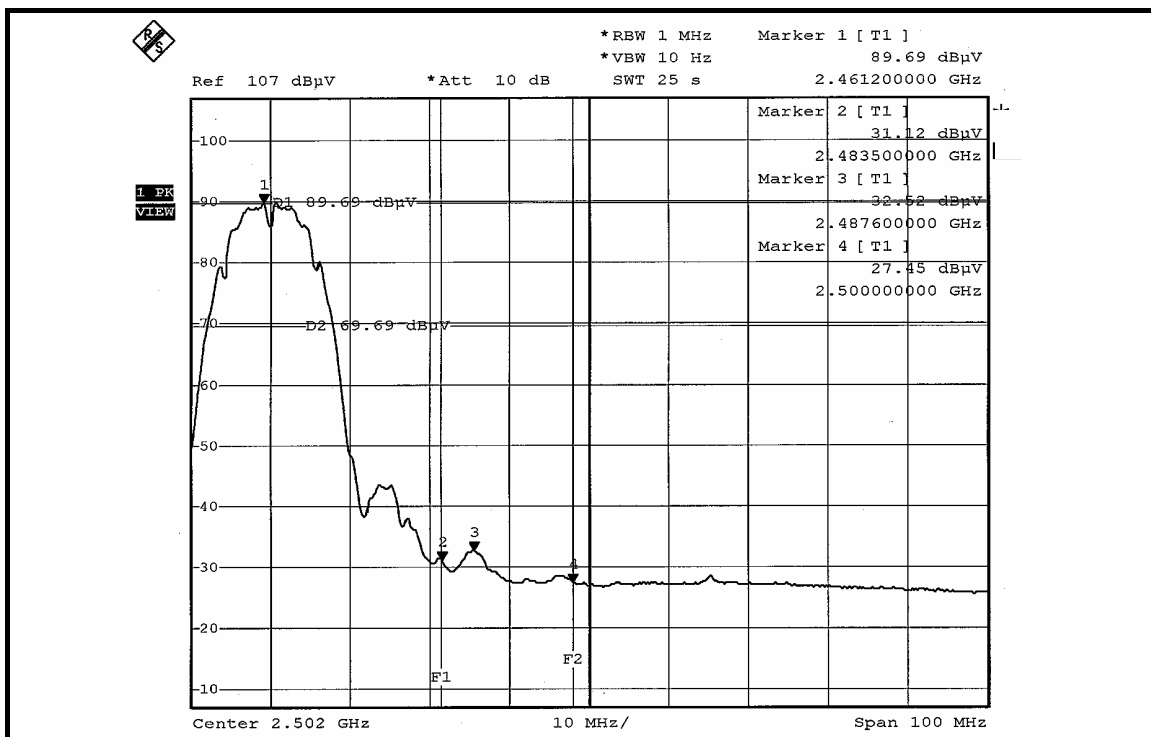
NOTE 2:

The band edge emission plot of DSSS technique on the next second page shows 48.17dBc between carrier maximum power and local maximum emission in restrict band (2.4874GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 110.24dBuV/m (Peak), so the maximum field strength in restrict band is $110.24 - 48.17 = 62.07$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of DSSS technique on the next third page shows 57.17dBc between carrier maximum power and local maximum emission in restrict band (2.4876GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 106.83dBuV/m (Average), so the maximum field strength in restrict band is $106.83 - 57.17 = 49.66$ dBuV/m which is under 54dBuV/m limit.







802.11g OFDM MODULATION:

NOTE 1:

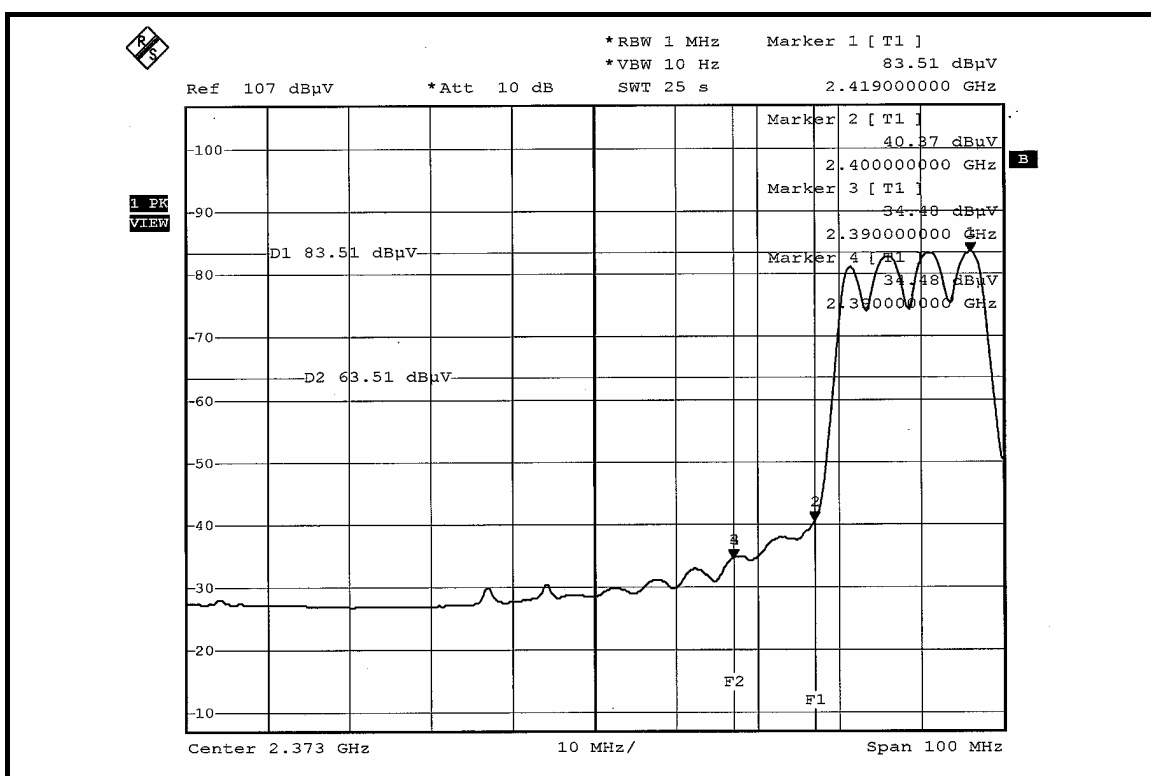
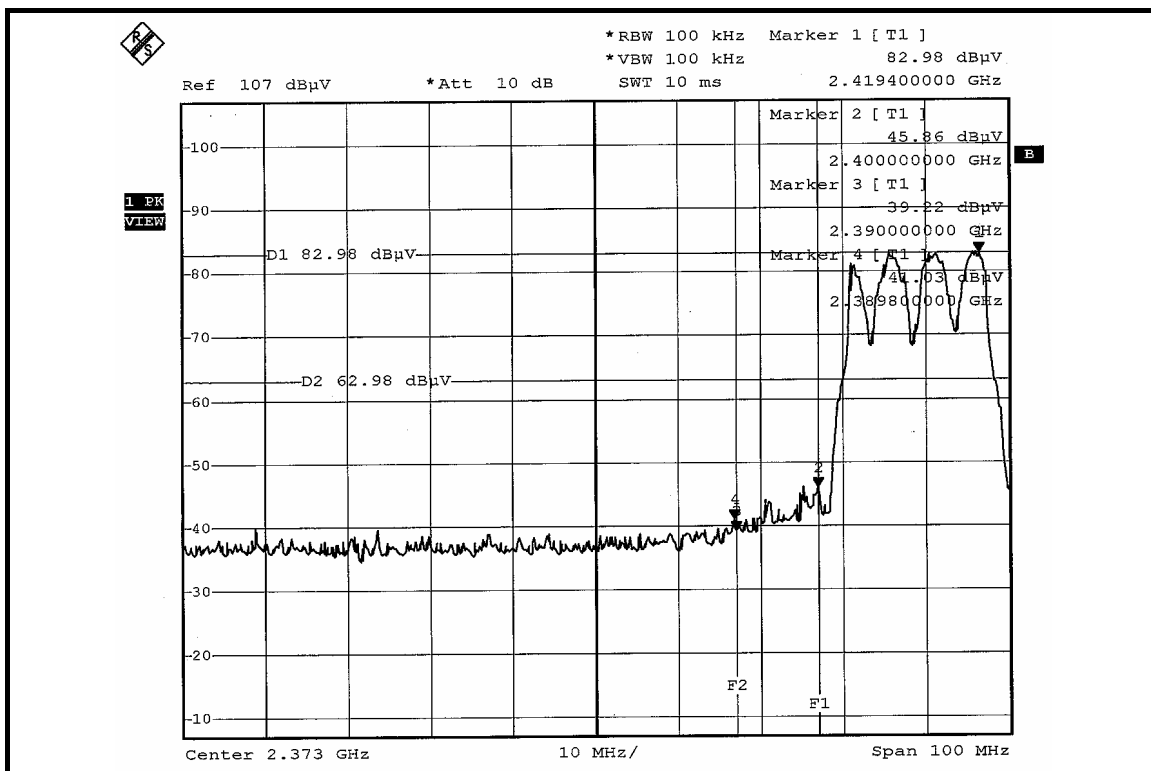
The band edge emission plot of OFDM technique on the next page shows 41.95dBc between carrier maximum power and local maximum emission in restrict band (2.3898GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 111.15dBuV/m (Peak), so the maximum field strength in restrict band is $111.15 - 41.95 = 69.20$ dBuV/m which is under 74dBuV/m limit.

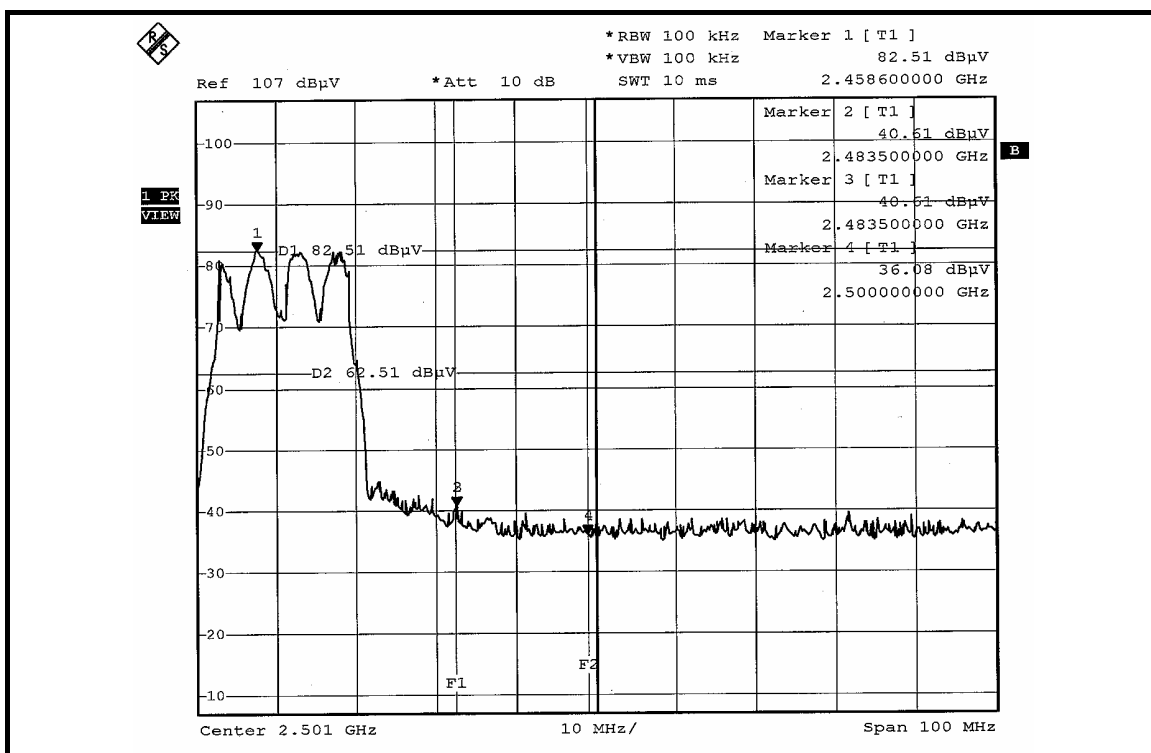
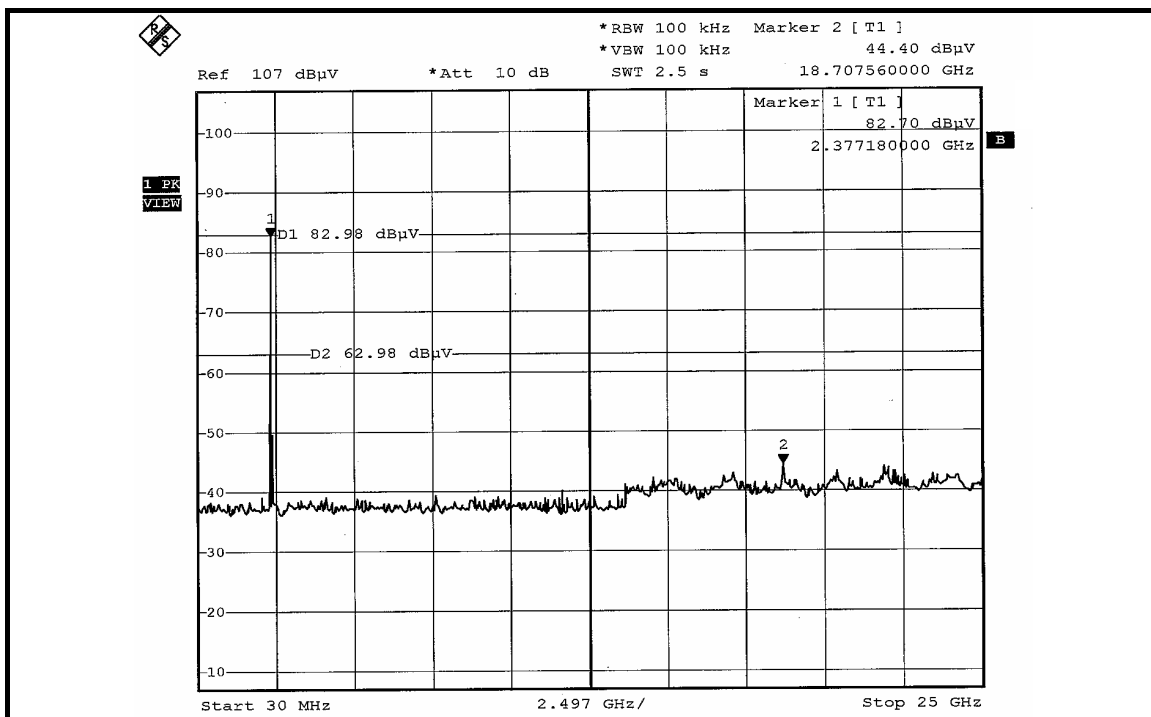
The band edge emission plot of OFDM technique on the next page shows 49.03dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 101.63dBuV/m (Average), so the maximum field strength in restrict band is $101.63 - 49.03 = 52.60$ dBuV/m which is under 54dBuV/m limit.

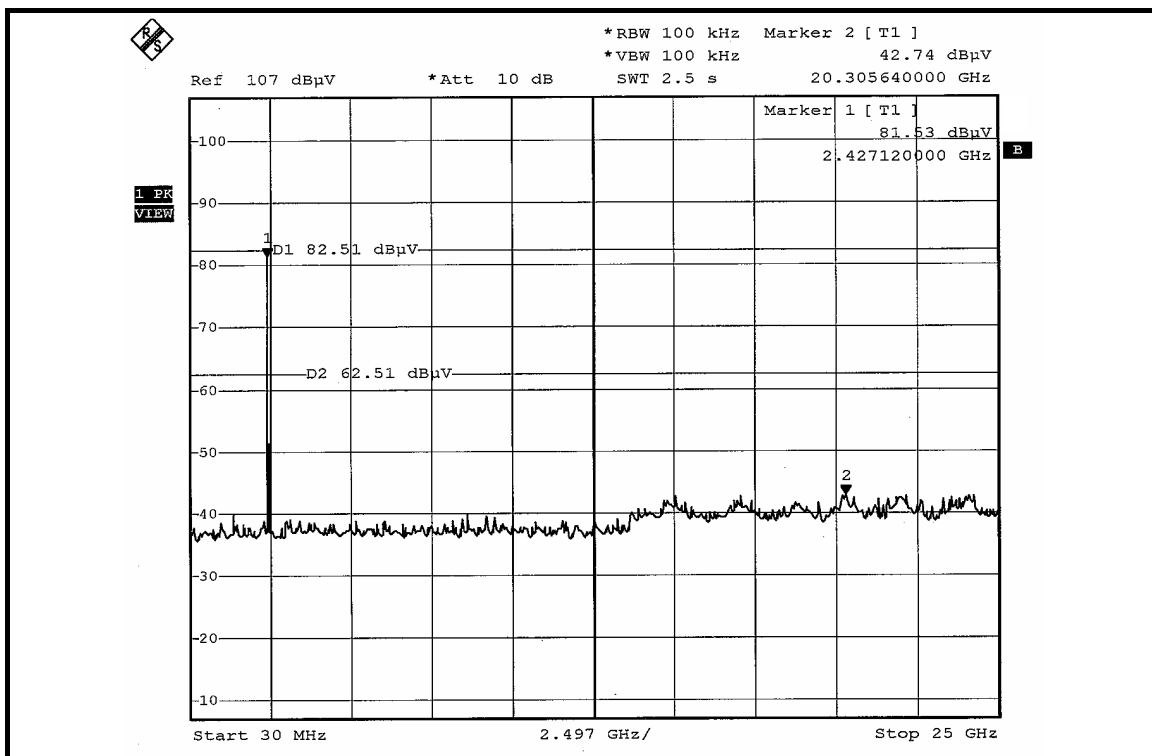
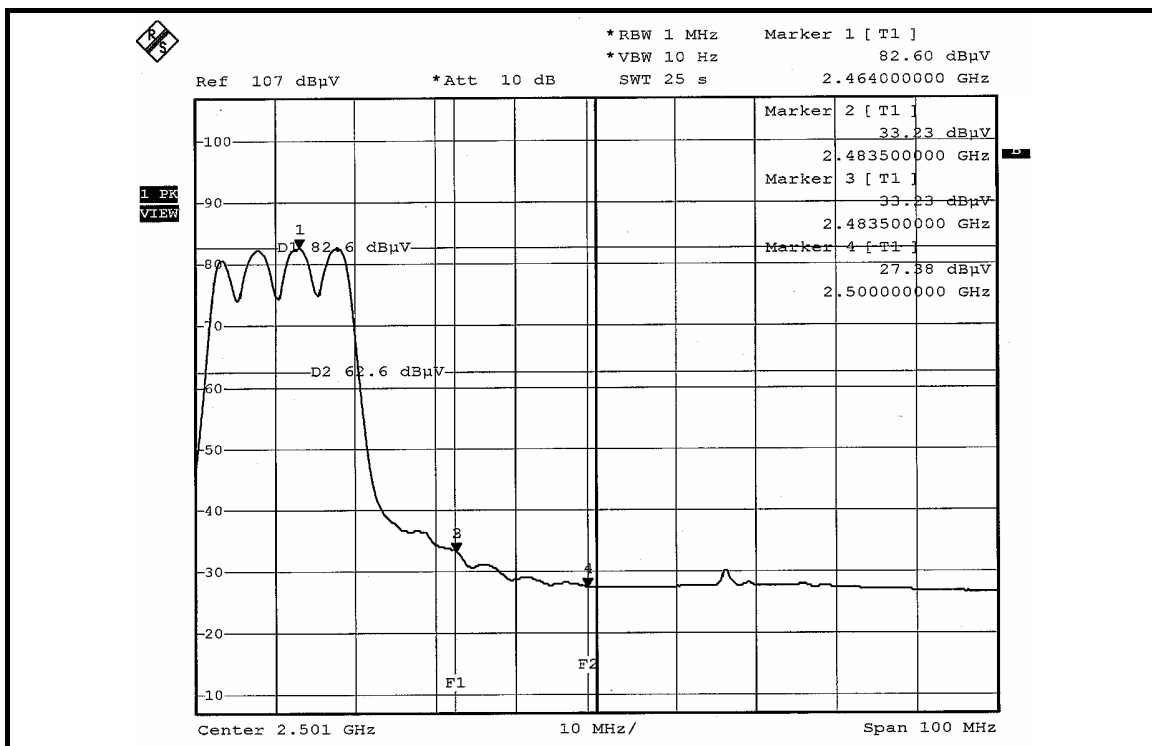
NOTE 2:

The band edge emission plot of OFDM technique on the next second page shows 41.90dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 111.54dBuV/m (Peak), so the maximum field strength in restrict band is $111.54 - 41.90 = 69.64$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of OFDM technique on the next third page shows 49.37dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.77dBuV/m (Average), so the maximum field strength in restrict band is $101.77 - 49.37 = 52.40$ dBuV/m which is under 54dBuV/m limit.







DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

NOTE 1:

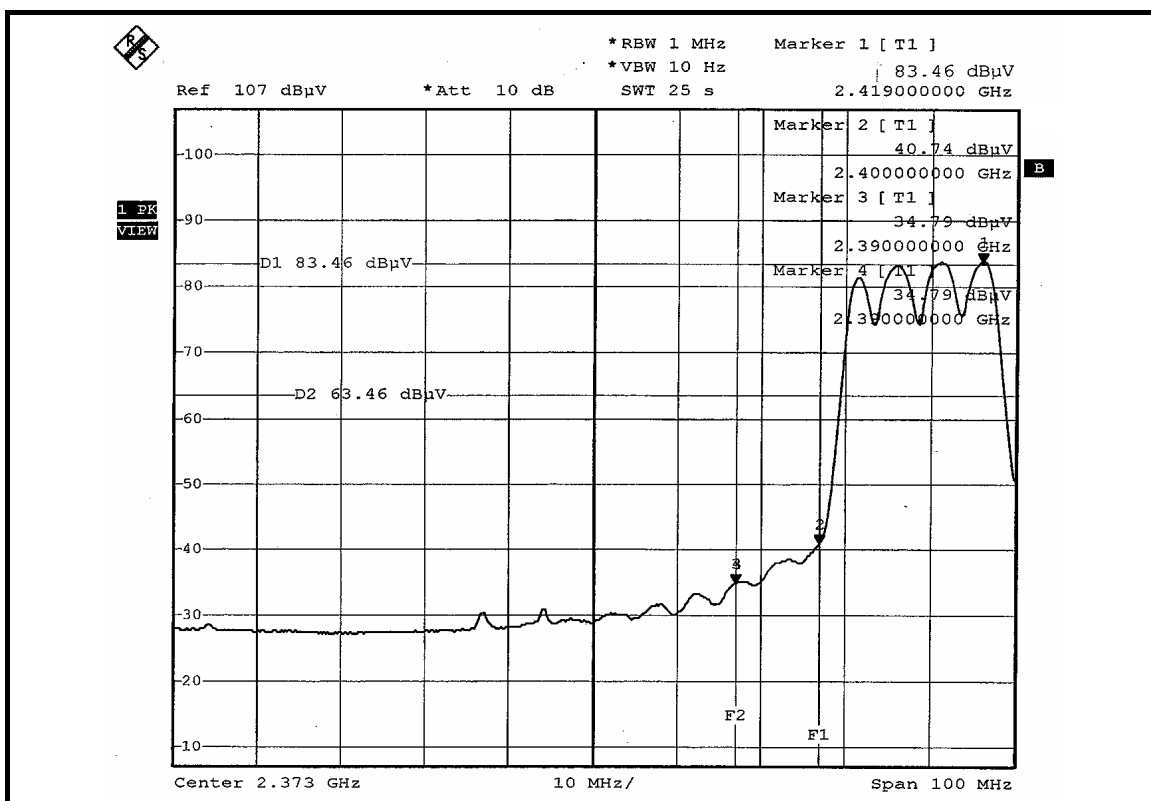
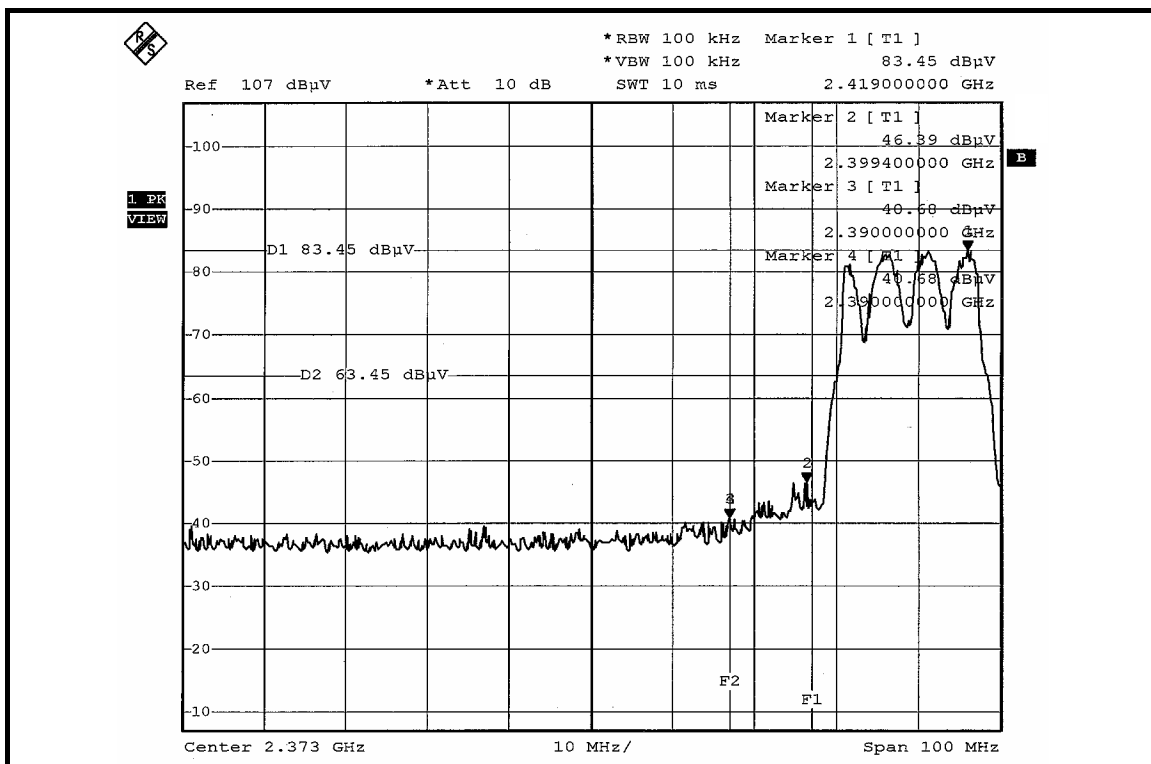
The band edge emission plot of OFDM technique on the next page shows 42.77dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 109.66dBuV/m (Peak), so the maximum field strength in restrict band is $109.66 - 42.77 = 66.89$ dBuV/m which is under 74dBuV/m limit.

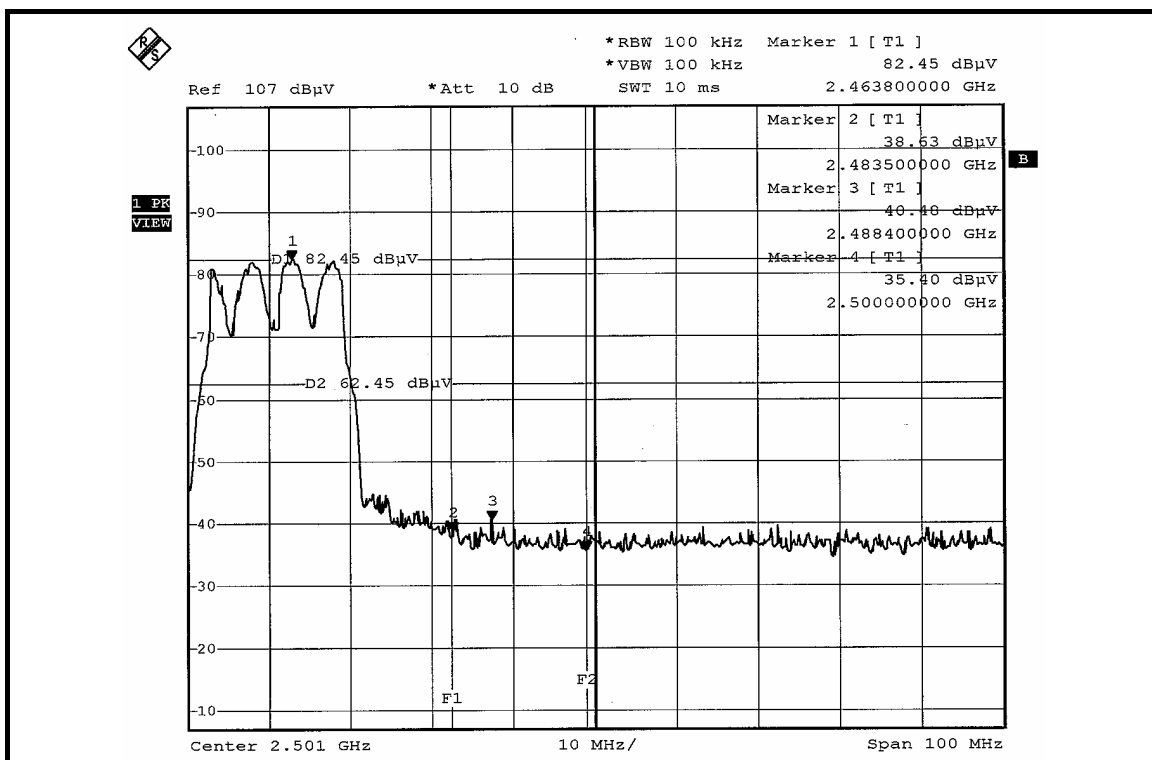
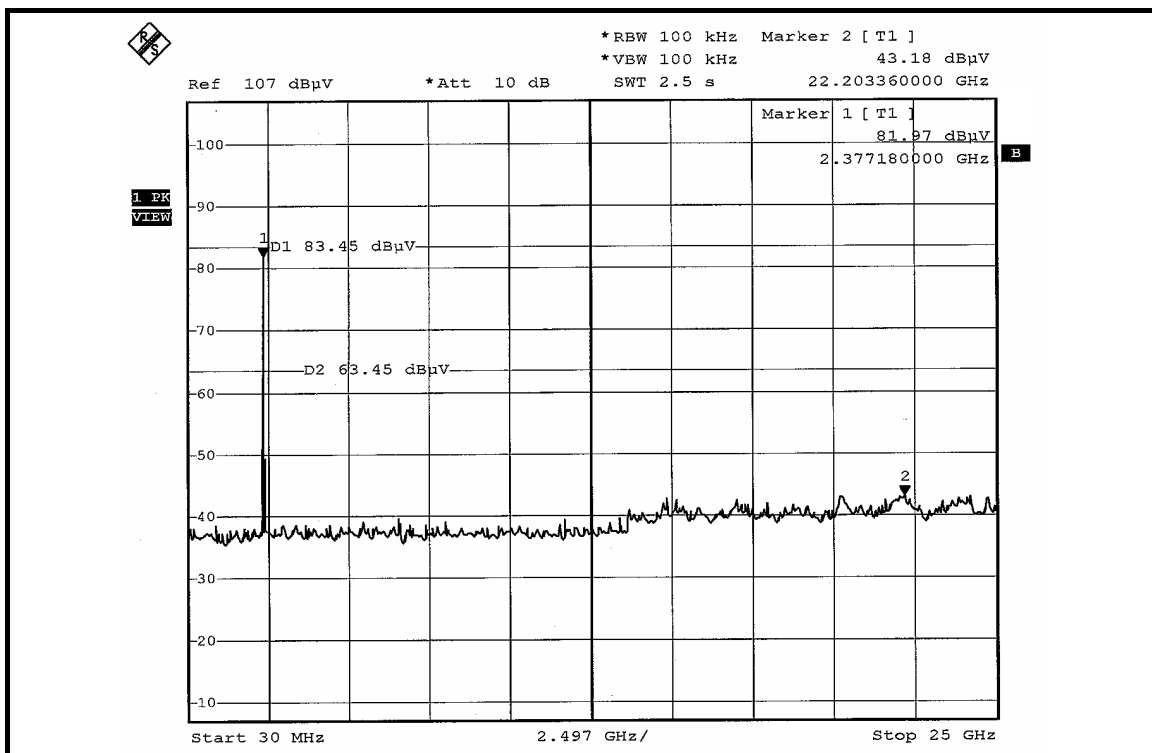
The band edge emission plot of OFDM technique on the next page shows 48.67dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.94dBuV/m (Average), so the maximum field strength in restrict band is $99.94 - 48.67 = 51.27$ dBuV/m which is under 54dBuV/m limit.

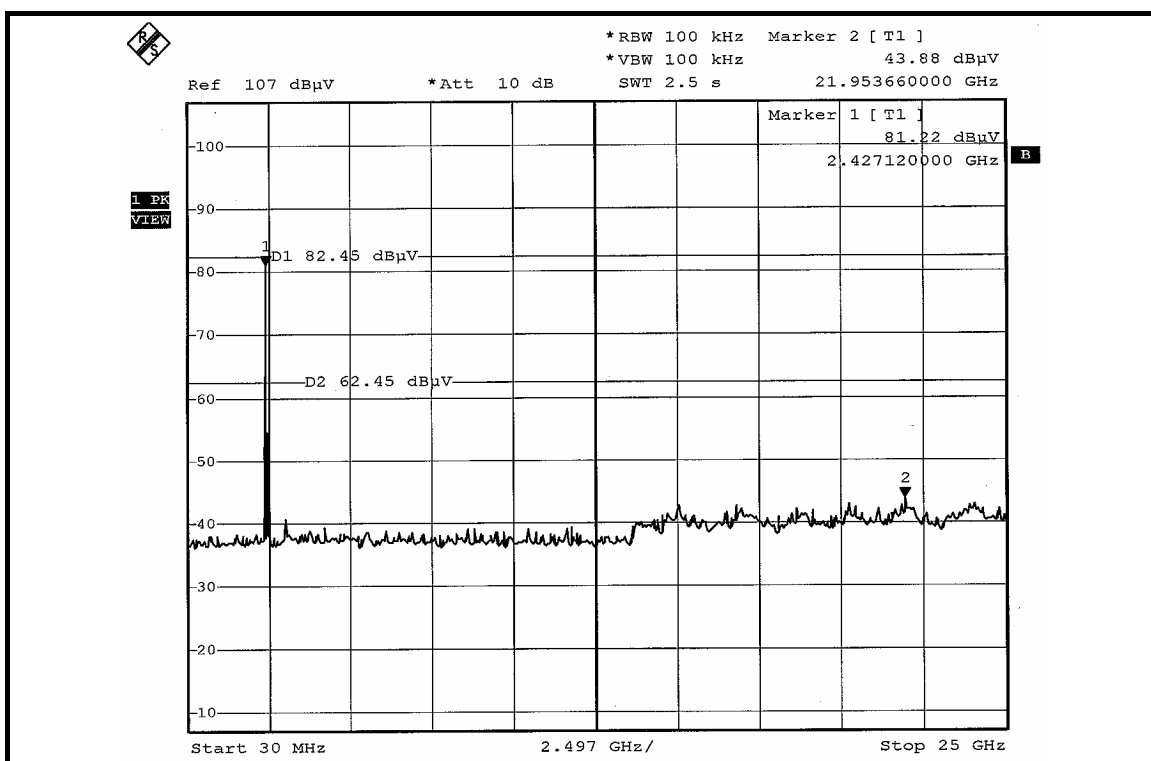
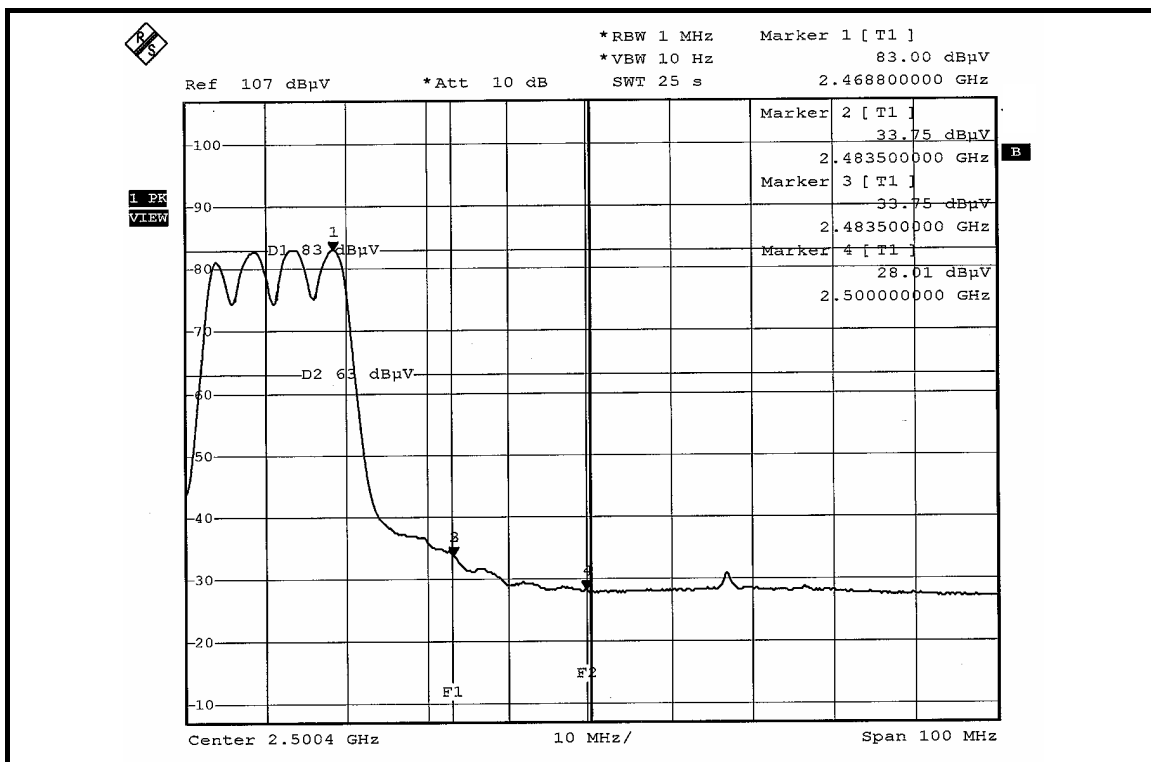
NOTE 2:

The band edge emission plot of OFDM technique on the next second page shows 41.97dBc between carrier maximum power and local maximum emission in restrict band (2.4884GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 109.12dBuV/m (Peak), so the maximum field strength in restrict band is $109.12 - 41.97 = 67.15$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of OFDM technique on the next third page shows 49.25dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 99.45dBuV/m (Average), so the maximum field strength in restrict band is $99.45 - 49.25 = 50.20$ dBuV/m which is under 54dBuV/m limit.







DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

NOTE 1:

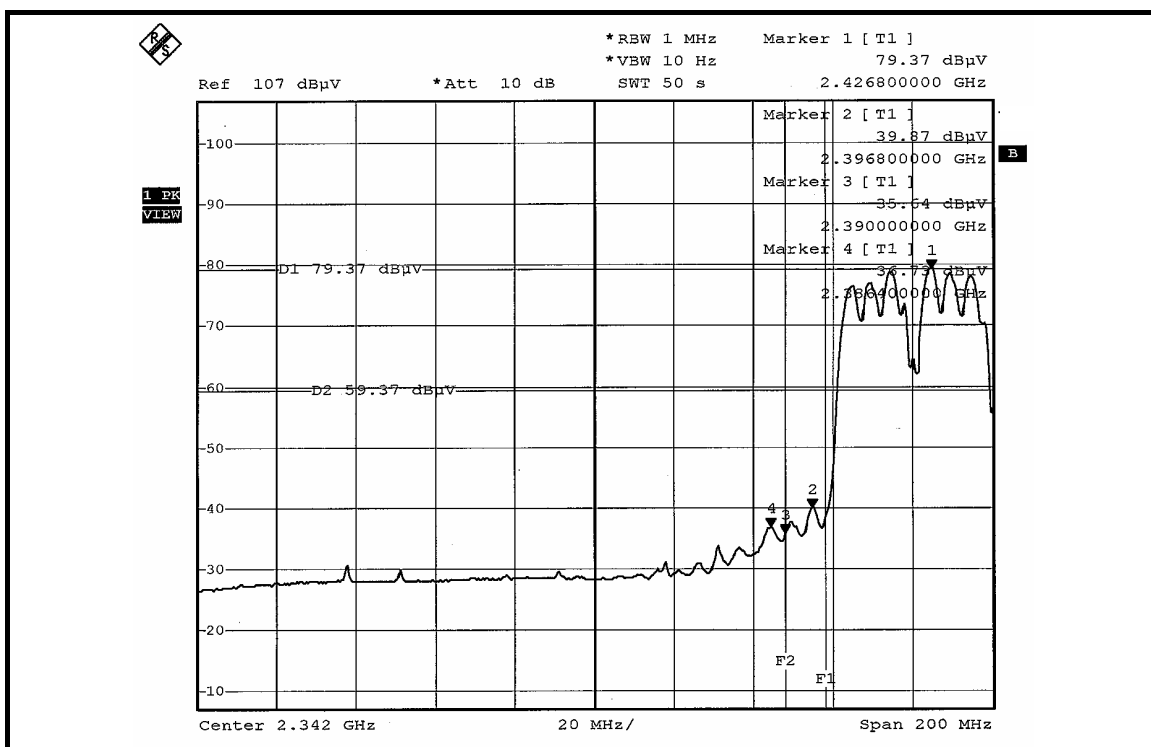
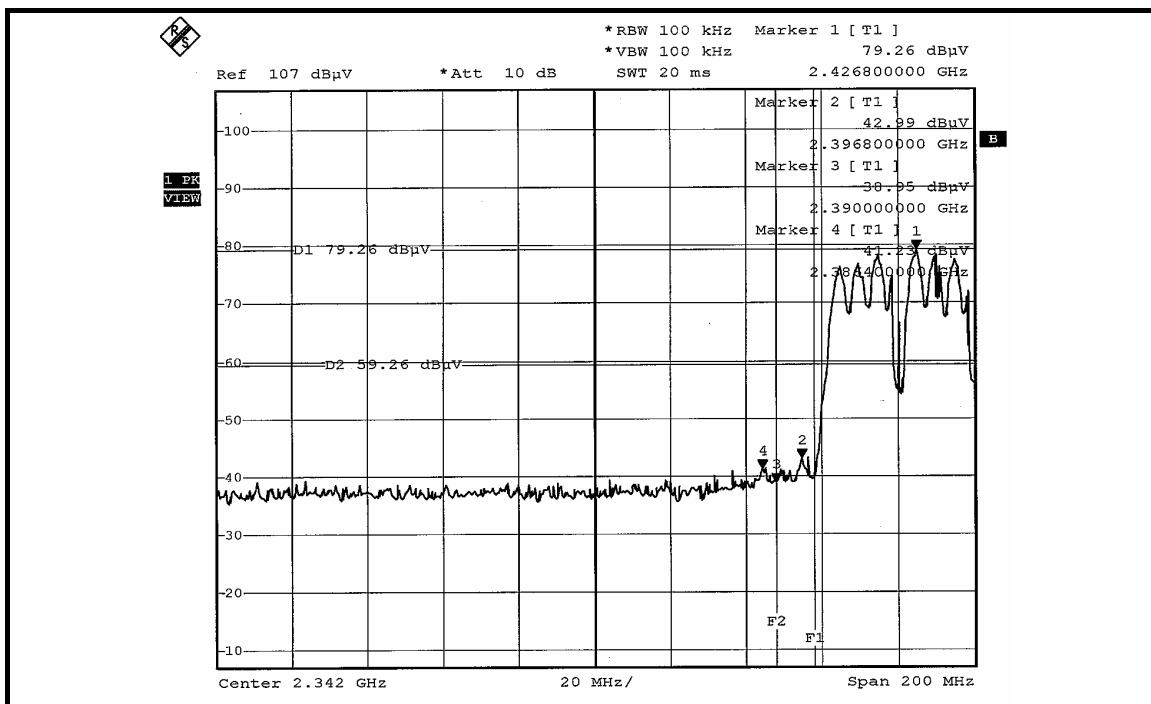
The band edge emission plot of OFDM technique on the next page shows 38.03dBc between carrier maximum power and local maximum emission in restrict band (2.3864GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 104.92dBuV/m (Peak), so the maximum field strength in restrict band is $104.92 - 38.03 = 66.89$ dBuV/m which is under 74dBuV/m limit.

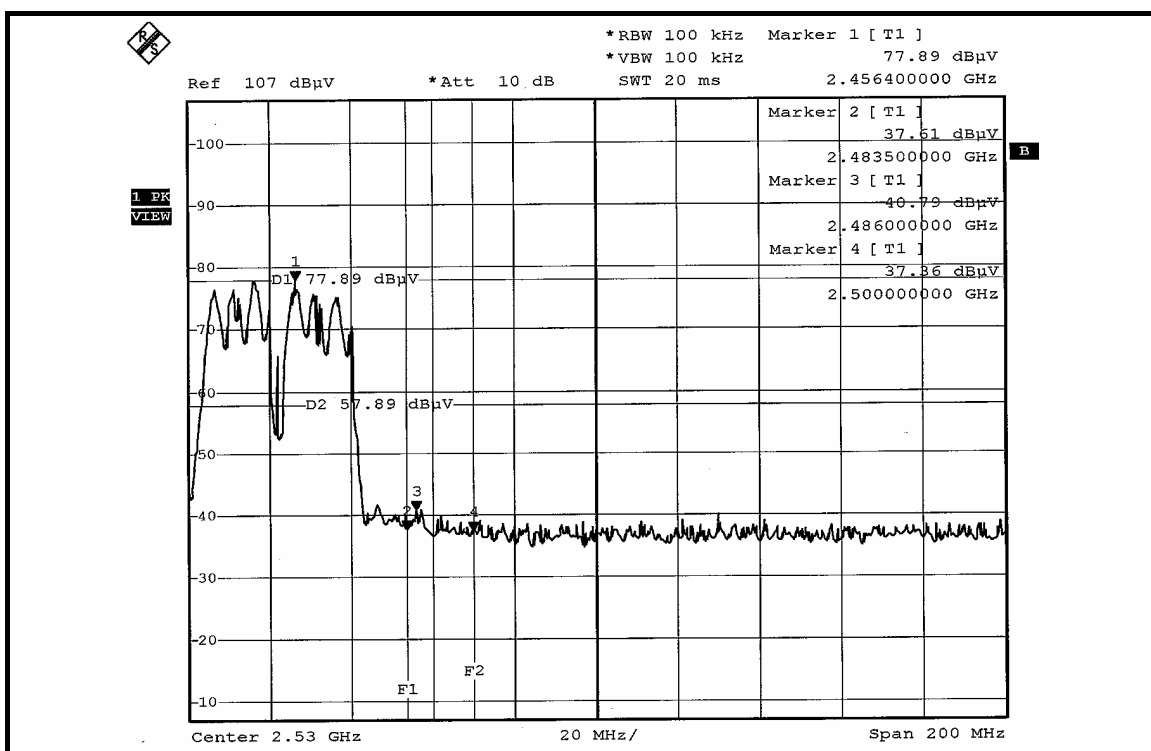
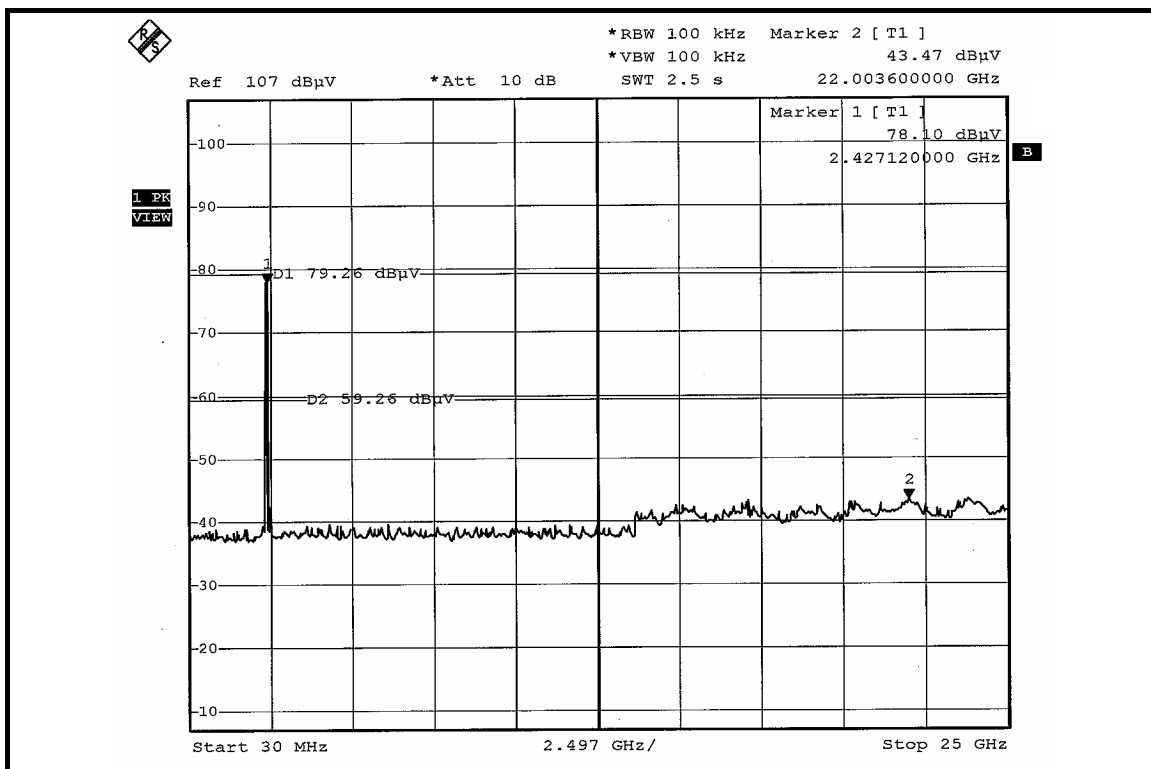
The band edge emission plot of OFDM technique on the next page shows 42.64dBc between carrier maximum power and local maximum emission in restrict band (2.3864GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 95.32dBuV/m (Average), so the maximum field strength in restrict band is $95.32 - 42.64 = 52.68$ dBuV/m which is under 54dBuV/m limit.

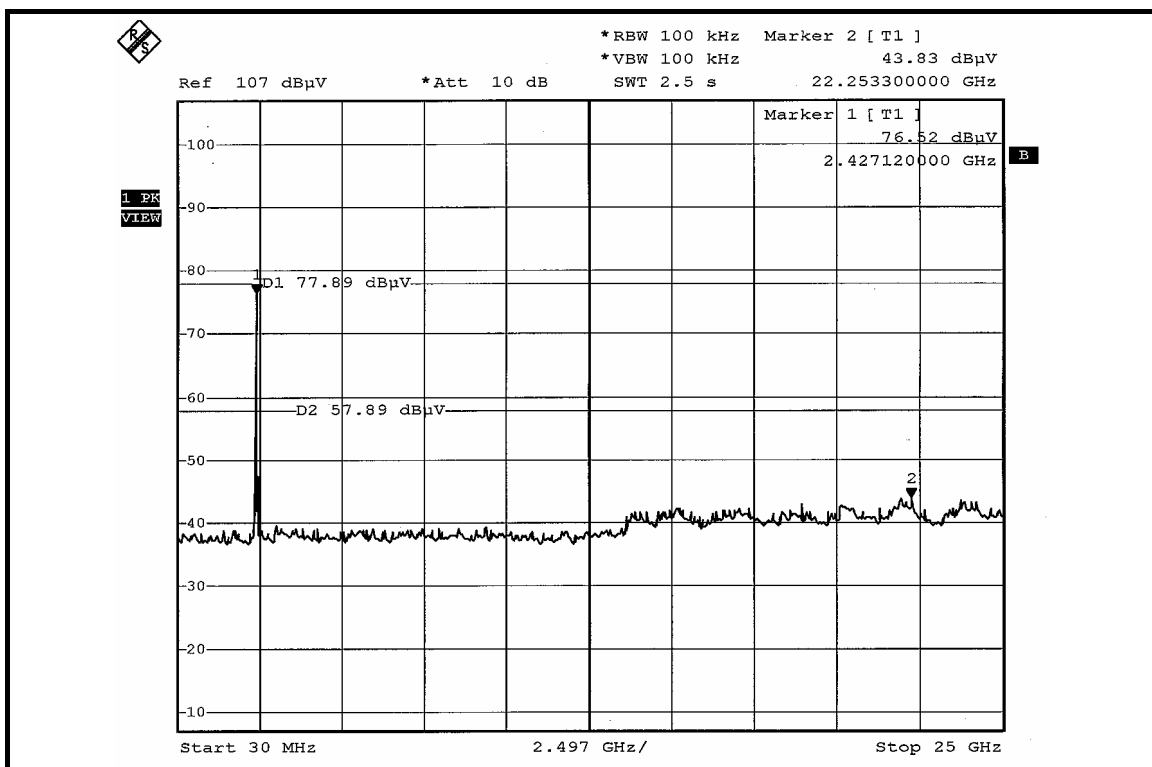
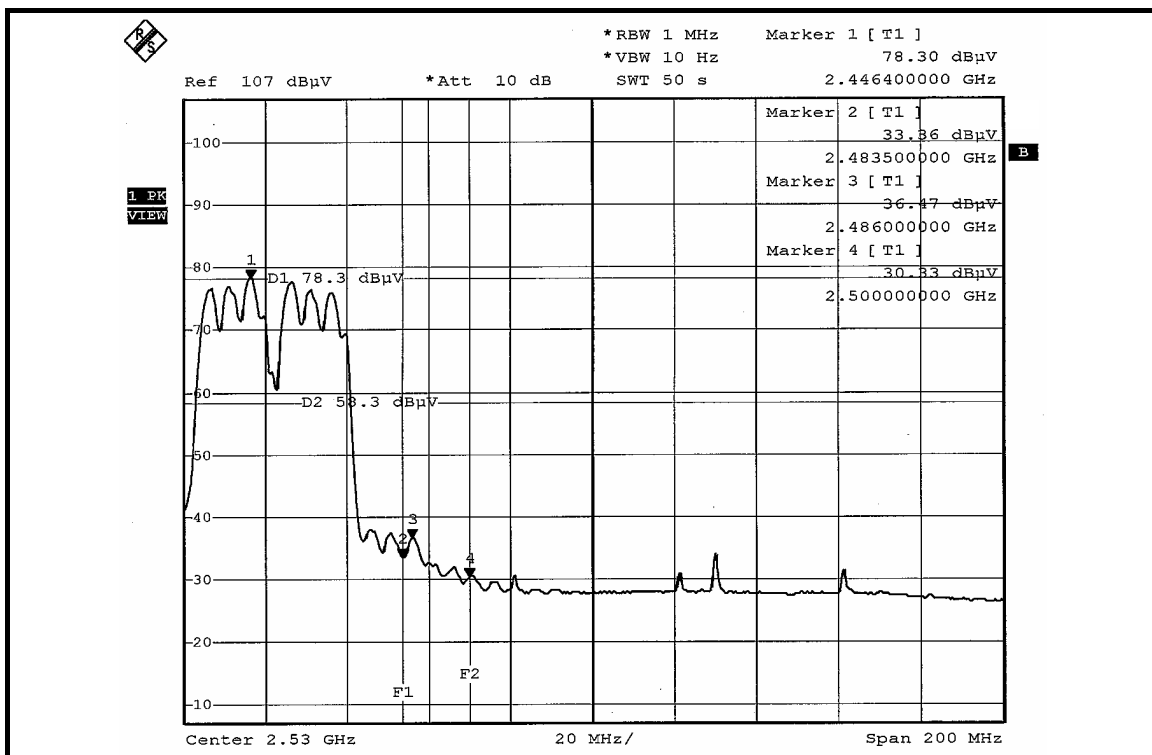
NOTE 2:

The band edge emission plot of OFDM technique on the next second page shows 37.10dBc between carrier maximum power and local maximum emission in restrict band (2.4860GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 104.41dBuV/m (Peak), so the maximum field strength in restrict band is $104.41 - 37.10 = 67.31$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of OFDM technique on the next third page shows 41.83dBc between carrier maximum power and local maximum emission in restrict band (2.4860GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 94.86dBuV/m (Average), so the maximum field strength in restrict band is $94.86 - 41.83 = 53.03$ dBuV/m which is under 54dBuV/m limit.







802.11b (CB mode) OFDM MODULATION: DUAL TX:

NOTE 1:

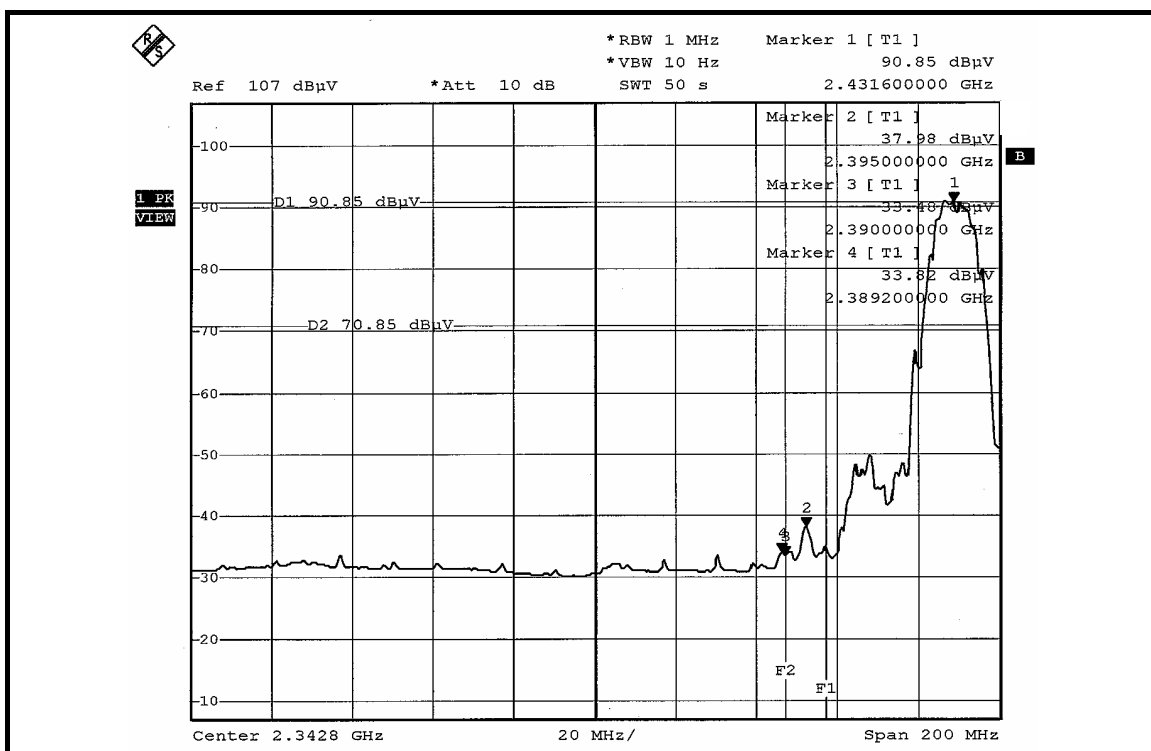
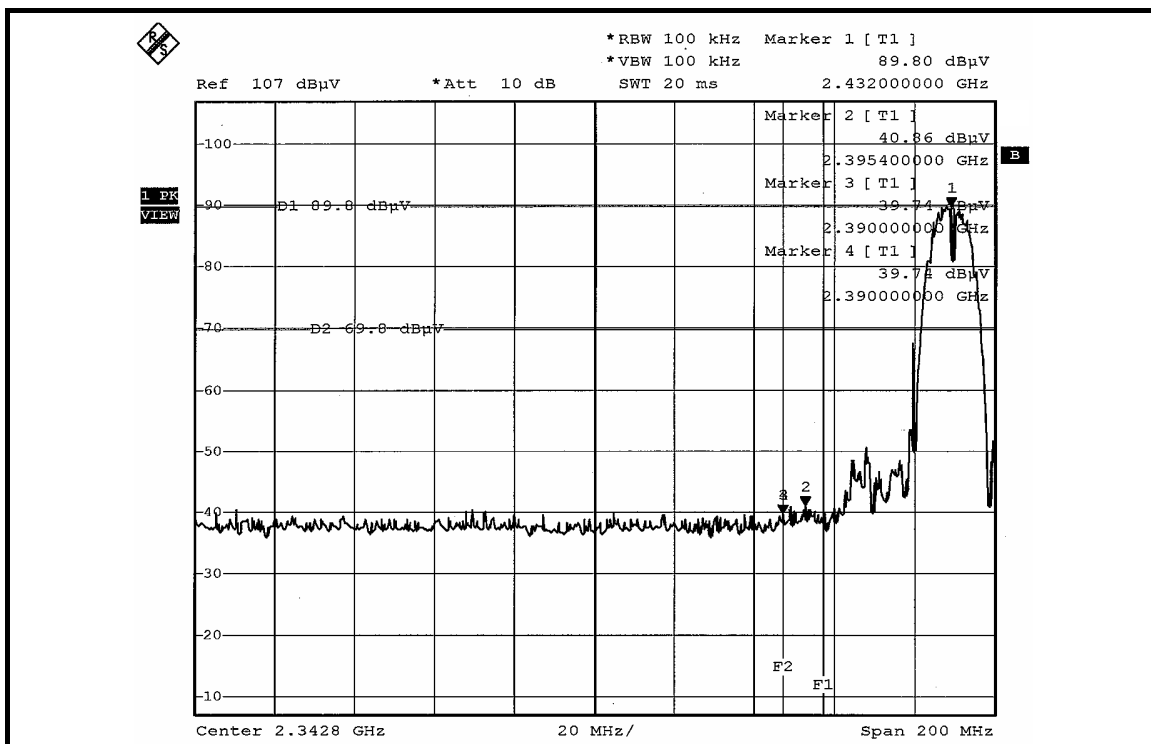
The band edge emission plot of DSSS technique on the next page shows 50.06dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 112.10dBuV/m (Peak), so the maximum field strength in restrict band is $112.10 - 50.06 = 62.04$ dBuV/m which is under 74dBuV/m limit.

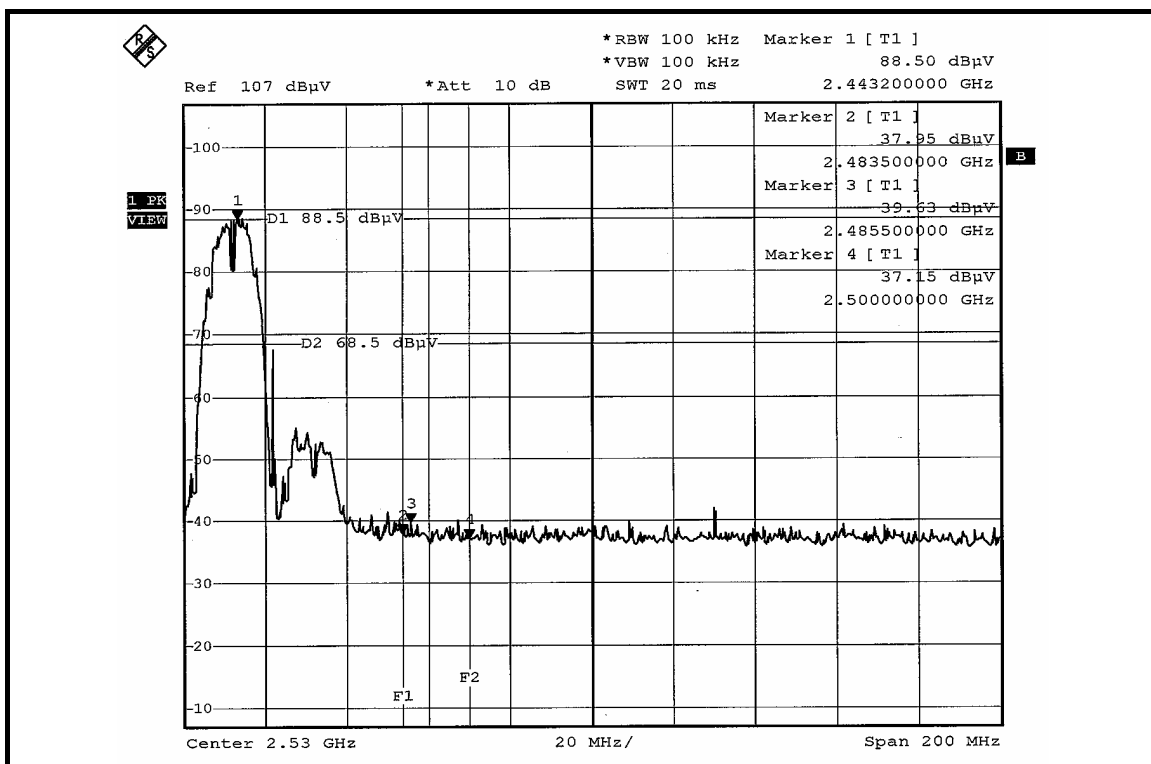
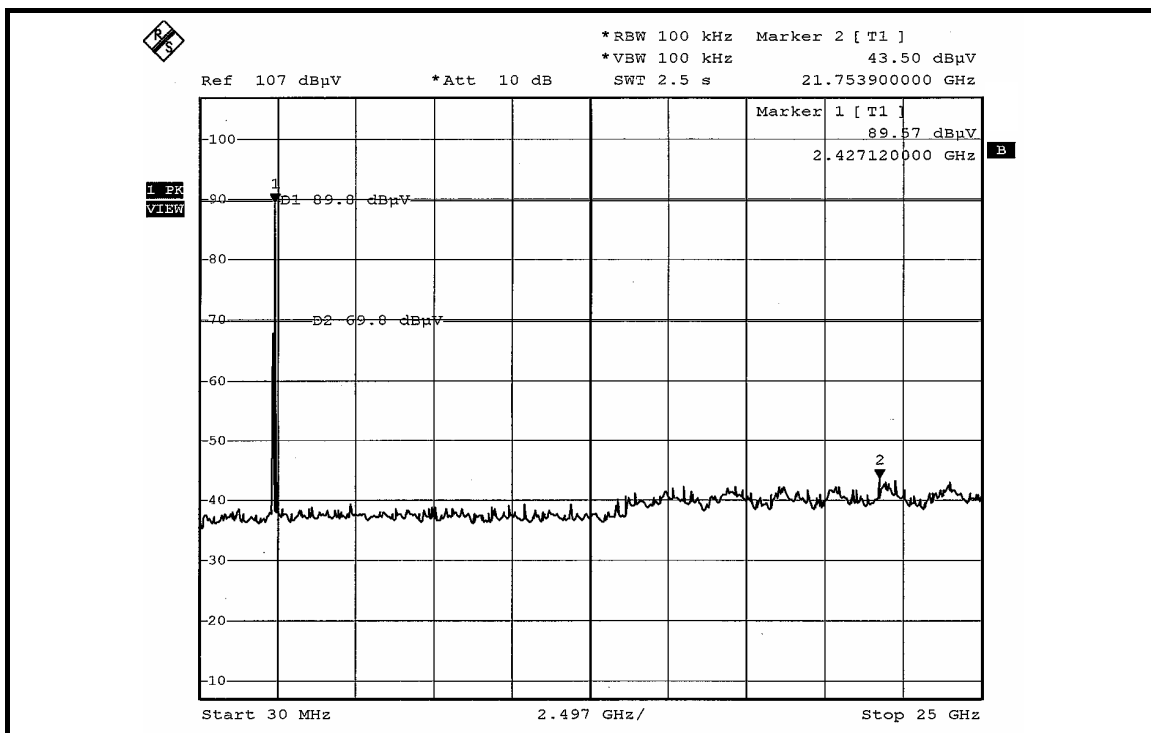
The band edge emission plot of DSSS technique on the next page shows 57.03dBc between carrier maximum power and local maximum emission in restrict band (2.3892GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.36dBuV/m (Average), so the maximum field strength in restrict band is $108.36 - 57.03 = 51.33$ dBuV/m which is under 54dBuV/m limit.

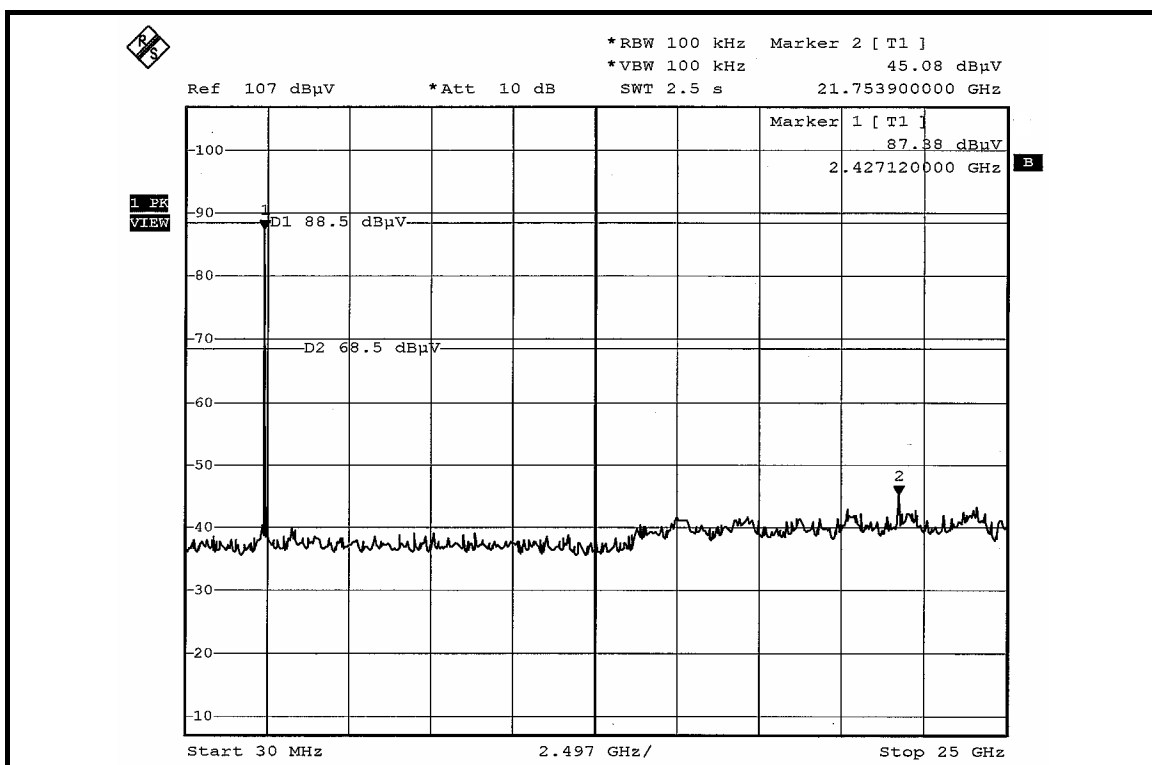
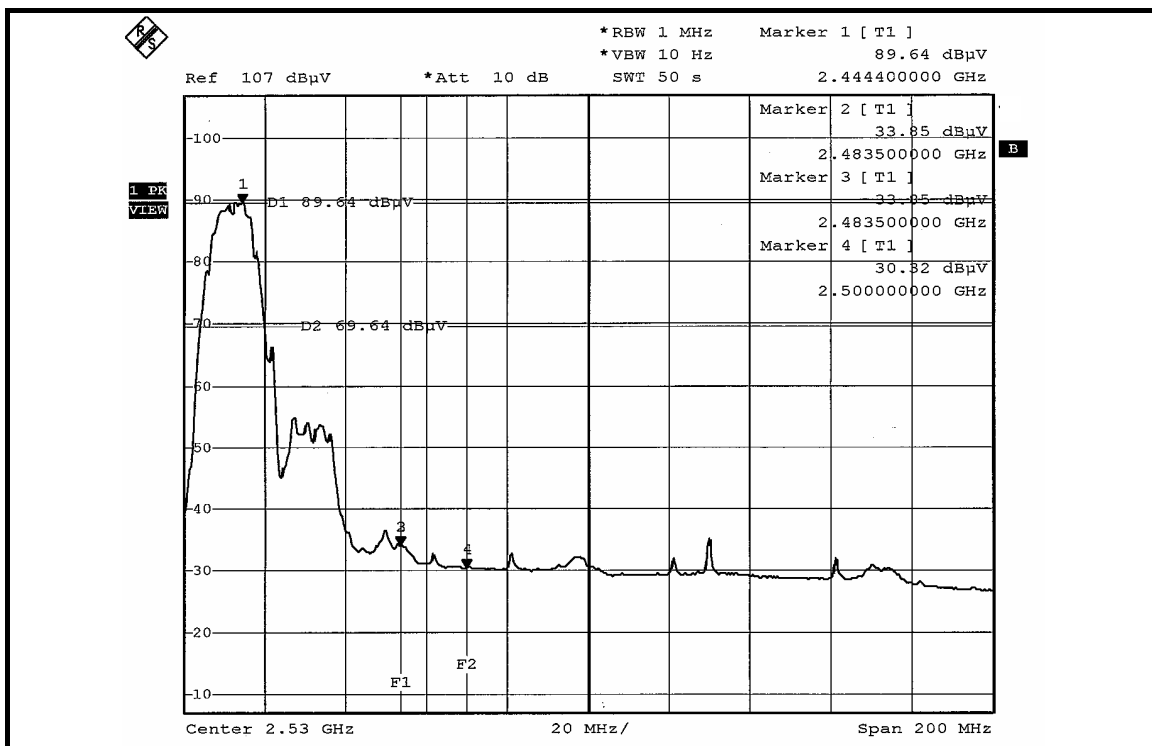
NOTE 2:

The band edge emission plot of DSSS technique on the next second page shows 48.87dBc between carrier maximum power and local maximum emission in restrict band (2.4855GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 112.10dBuV/m (Peak), so the maximum field strength in restrict band is $112.10 - 48.87 = 63.23$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of DSSS technique on the next third page shows 55.79dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 108.32dBuV/m (Average), so the maximum field strength in restrict band is $108.32 - 55.79 = 52.53$ 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 without connector. The maximum Gain of the antenna is 3.14dBi.

5. INFORMATION ON THE TESTING LABORATORIES

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

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

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

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

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab: Linko RF Lab.

Tel: 886-3-3183232

Fax: 886-3-3185050

Tel: 886-3-3270910

Fax: 886-3-3270892

Web Site: www.adt.com.tw

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

APPENDIX-A

MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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