FCC TEST REPORT

REPORT NO.: RF950525L03B
MODEL NO.: WPCM-164GN
SERIES NO.: AWLC6045
RECEIVED: May 29, 2006
TESTED: May 29 ~ Jun. 07, 2006
ISSUED: Aug. 23, 2006

APPLICANT: Gemtek Technology Co., Ltd.
ADDRESS: No.1, Jen Ai Road, Hsinchu Industrial Park, Hukou Hsinchu, Taiwan, R.O.C. 303

ISSUED BY: Advance Data Technology Corporation
LAB ADDRESS: 47 14th Lin, Chiapau Tsun, Linko, Taipei, Taiwan, R.O.C.
TEST LOCATION: No. 19, Hwa Ya 2nd Rd., Kueishan, Taoyuan, Taiwan, R.O.C.

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1. CERTIFICATION

PRODUCT:	300N Wireless Cardbus Adapter
MODEL NO.:	WPCM-164GN
SERIES NO.:	AWLC6045
BRAND:	Gemtek, Airlink101
APPLICANT:	Gemtek Technology Co., Ltd.
TESTED:	May 29 ~ Jun. 07, 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 : Peggy Chen , **DATE:** Aug. 23, 2006
Peggy Chen

TECHNICAL ACCEPTANCE : Long Chen , **DATE:** Aug. 23, 2006
Responsible for RF
Long Chen

APPROVED BY : Gary Chang , **DATE:** Aug. 23, 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 –17.70dB at 0.226MHz.
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 –1.11dB at 4824.00MHz.
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	300N Wireless Cardbus Adapter
MODEL NO.	WPCM-164GN
SERIES NO.	AWLC6045
FCC ID	MXF-P950808GN
POWER SUPPLY	3.3Vdc from host equipment
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	212.585mW
ANTENNA TYPE	Printed right antenna with 2.6dBi gain Printed left antenna with 3.6dBi gain Printed center antenna with 0.9dBi gain
DATA CABLE	NA
I/O PORTS	NA

NOTE:

1. This is a duplicate report of RF950525L03A (ADT No.: 950615L04), the difference is changing the model name, brand name, product name, applicant and outward appearance.
2. The models as below are identical to each other expect for their model designation due to marketing requirement.

Brand	Model
Gemtek	WPCM-164GN
Airlink101	AWLC6045

3. The EUT incorporates a MIMO function with 802.11b, 802.11g, draft 802.11n. Physically, the card provides two completed transmitters and three receivers.
4. 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).
5. When the EUT operating in 802.11b, 802.11g, the software operation, which is defined by manufacturer, only set dual Tx.
6. When the EUT operating in 802.11b with “Channel Binding function”, the software operation, which is defined by manufacturer, only set dual Tx.
7. 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.

8. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.
9. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 300Mbps.
10. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

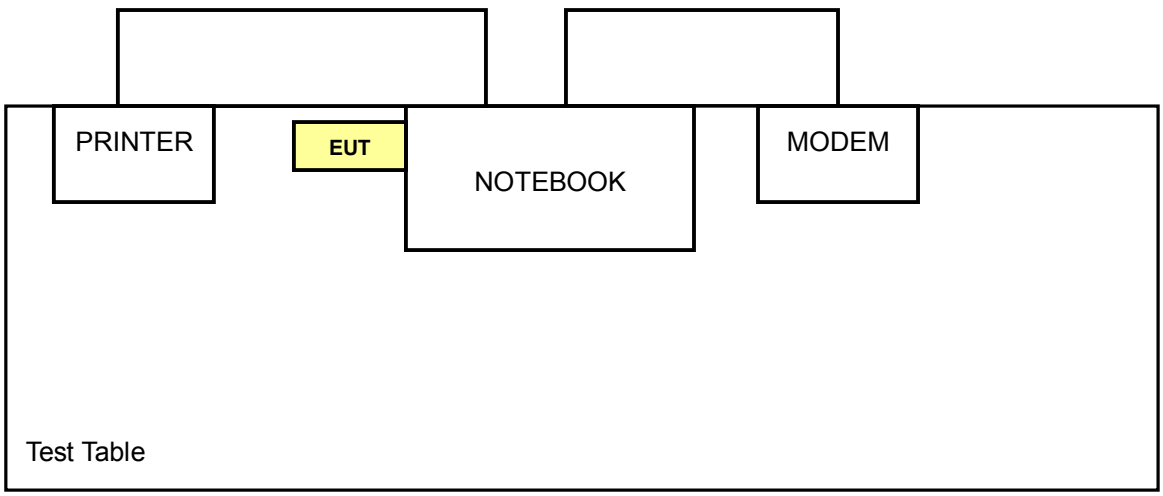
Eleven channels are provided for 802.11b, 802.11g, draft 802.11n (20MHz):

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



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

Where **PLC:** Power Line Conducted Emission **RE < 1G:** Radiated Emission below 1GHz
RE ≥ 1G: Radiated Emission above 1GHz **APCM:** Antenna Port Conducted Measurement

POWER LINE CONDUCTED EMISSION TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX CONDITION
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Dual
Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Dual
Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15	Dual
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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX CONDITION
802.11g	1 to 11	1	OFDM	BPSK	6	Dual
Draft 802.11n (20MHz)	1 to 11	1	OFDM	BPSK	7.2	Dual
Draft 802.11n (40MHz)	1 to 7	1	OFDM	BPSK	15	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.

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

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX CONDITION
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	Dual
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Dual
Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Dual
Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15	Dual
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	PRINTER	EPSON	LQ-300+	DCGY047265	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008248	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2m shielded cable
3	1.2m 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 (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

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

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 11, 2006
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 06, 2007
LISN 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.

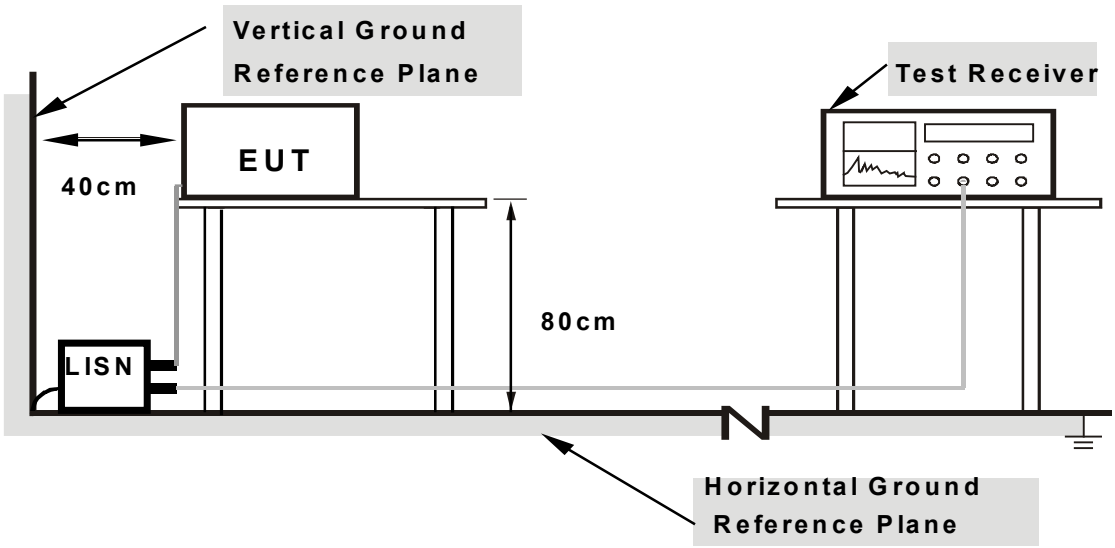
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

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

a. Connected the EUT into the notebook system and placed on a testing table.

b. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.

c. The notebook system show “H” messages to modem.

d. The notebook system sent "H" messages to printer and the printer prints them on paper.

e. Repeated item c ~ d.

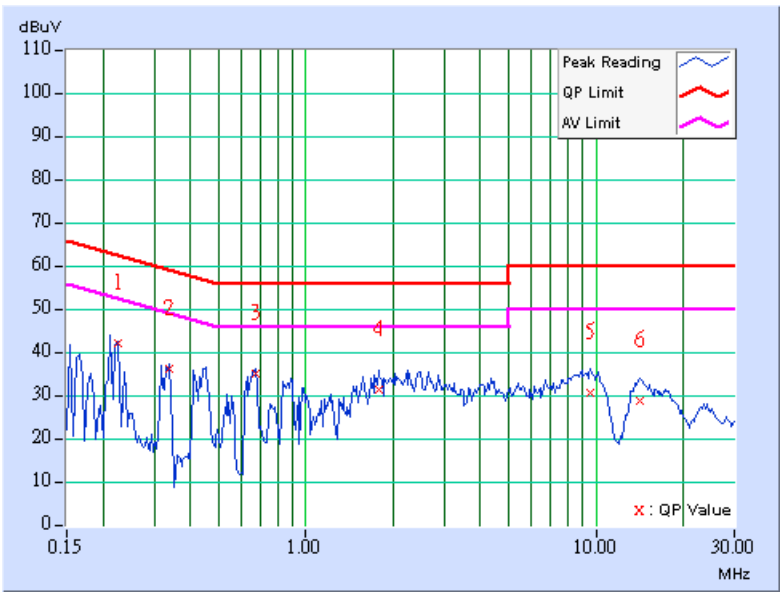
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11g OFDM MODULATION:

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	20deg. C, 60%RH, 991hPa	**TESTED BY**	Match Tsui

	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	0.224	0.10	41.55	-	41.65	-	62.66	52.66	-21.01	-
2	0.338	0.10	35.56	-	35.66	-	59.26	49.26	-23.60	-
3	0.670	0.14	34.51	-	34.65	-	56.00	46.00	-21.35	-
4	1.781	0.20	30.92	-	31.12	-	56.00	46.00	-24.88	-
5	9.613	0.46	30.09	-	30.55	-	60.00	50.00	-29.45	-
6	14.211	0.60	28.13	-	28.73	-	60.00	50.00	-31.27	-

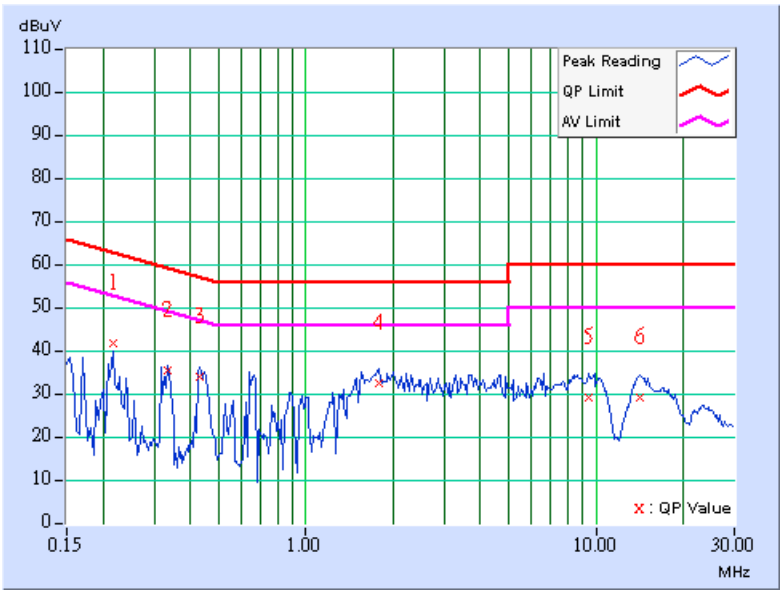
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.216	0.10	41.45	-	41.55	-	62.96	52.96	-21.41	-
2	0.334	0.10	35.06	-	35.16	-	59.36	49.36	-24.20	-
3	0.431	0.10	33.70	-	33.80	-	57.23	47.23	-23.43	-
4	1.785	0.18	32.21	-	32.39	-	56.00	46.00	-23.61	-
5	9.398	0.45	28.65	-	29.10	-	60.00	50.00	-30.90	-
6	14.184	0.52	28.71	-	29.23	-	60.00	50.00	-30.77	-

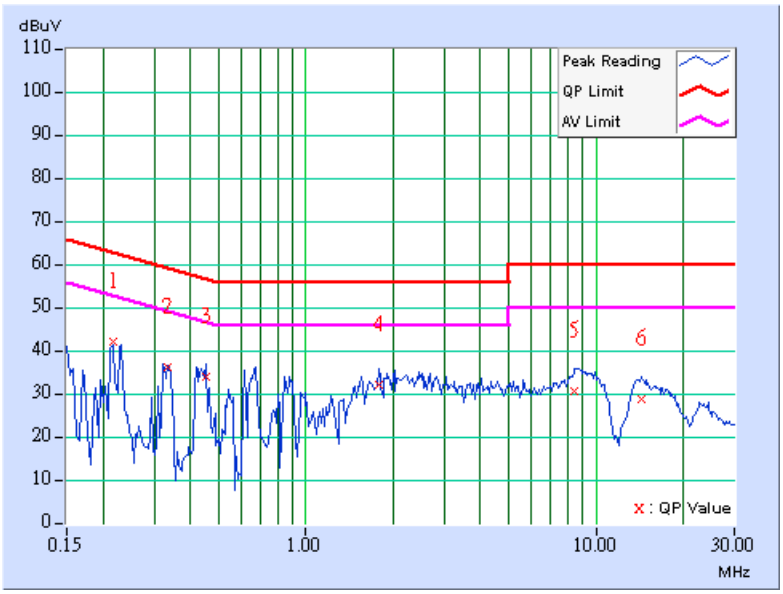
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.216	0.10	41.79	-	41.89	-	62.96	52.96	-21.07	-
2	0.334	0.10	35.81	-	35.91	-	59.36	49.36	-23.45	-
3	0.451	0.11	33.31	-	33.42	-	56.86	46.86	-23.44	-
4	1.781	0.20	31.52	-	31.72	-	56.00	46.00	-24.28	-
5	8.465	0.46	30.13	-	30.59	-	60.00	50.00	-29.41	-
6	14.293	0.61	28.19	-	28.80	-	60.00	50.00	-31.20	-

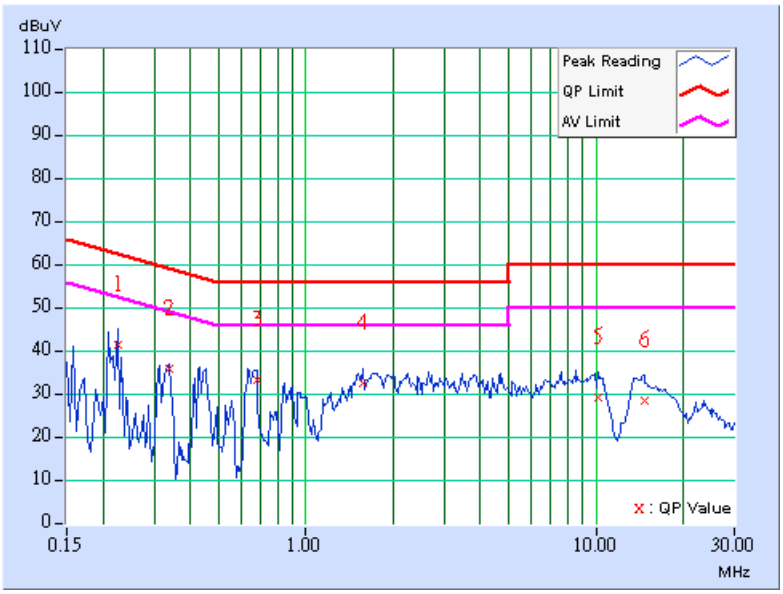
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.224	0.10	41.05	-	41.15	-	62.66	52.66	-21.51	-
2	0.338	0.10	35.58	-	35.68	-	59.26	49.26	-23.58	-
3	0.677	0.10	32.83	-	32.93	-	56.00	46.00	-23.07	-
4	1.570	0.16	32.09	-	32.25	-	56.00	46.00	-23.75	-
5	10.223	0.46	28.91	-	29.37	-	60.00	50.00	-30.63	-
6	14.645	0.53	28.06	-	28.59	-	60.00	50.00	-31.41	-

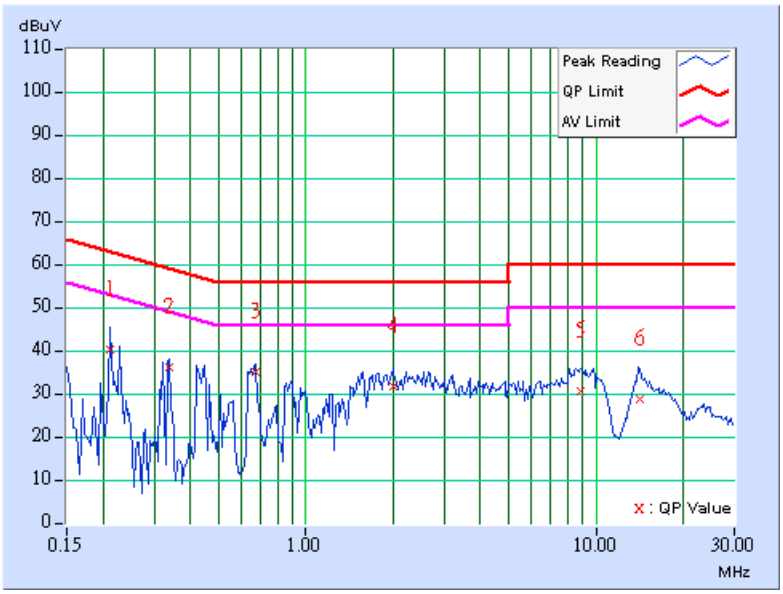
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.213	0.10	39.93	-	40.03	-	63.11	53.11	-23.08	-
2	0.338	0.10	35.84	-	35.94	-	59.26	49.26	-23.32	-
3	0.673	0.15	34.59	-	34.74	-	56.00	46.00	-21.26	-
4	2.008	0.20	31.42	-	31.62	-	56.00	46.00	-24.38	-
5	8.848	0.46	30.23	-	30.69	-	60.00	50.00	-29.31	-
6	14.121	0.60	28.21	-	28.81	-	60.00	50.00	-31.19	-

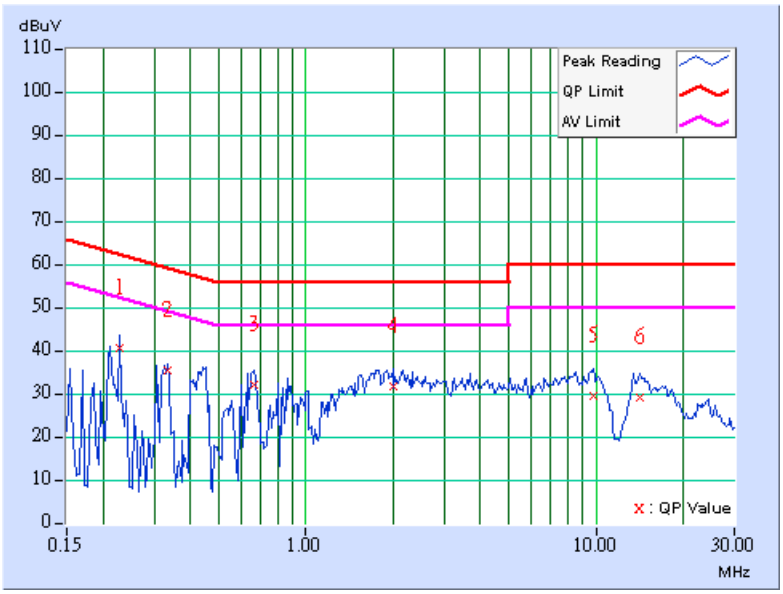
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.228	0.10	40.22	-	40.32	-	62.52	52.52	-22.20	-
2	0.334	0.10	35.12	-	35.22	-	59.36	49.36	-24.14	-
3	0.662	0.10	31.77	-	31.87	-	56.00	46.00	-24.13	-
4	2.008	0.20	31.42	-	31.62	-	56.00	46.00	-24.38	-
5	9.785	0.46	29.17	-	29.63	-	60.00	50.00	-30.37	-
6	14.160	0.52	28.79	-	29.31	-	60.00	50.00	-30.69	-

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.

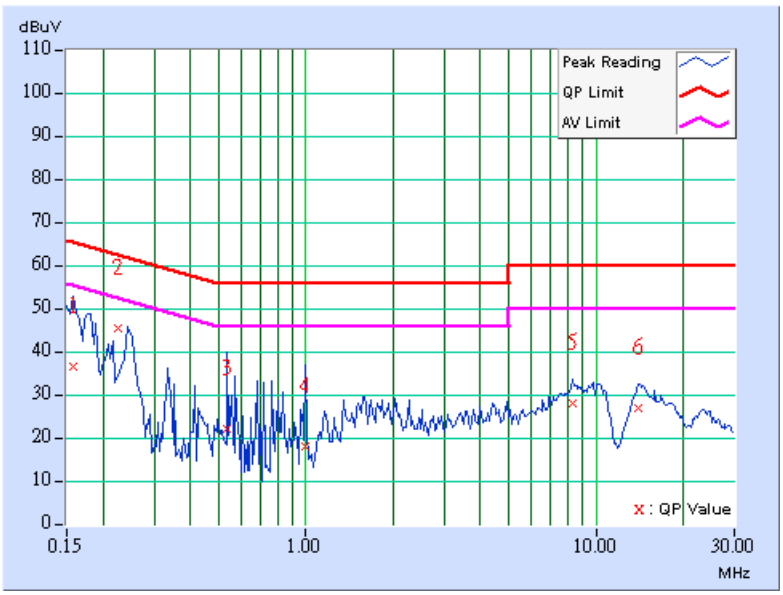


DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	36.15	-	36.25	-	65.58	55.58	-29.33	-
2	**0.226**	**0.10**	**44.80**	**-**	**44.90**	**-**	**62.60**	**52.60**	**-17.70**	**-**
3	0.537	0.12	21.64	-	21.76	-	56.00	46.00	-34.24	-
4	0.998	0.20	17.41	-	17.61	-	56.00	46.00	-38.39	-
5	8.309	0.46	27.57	-	28.03	-	60.00	50.00	-31.97	-
6	13.949	0.59	26.55	-	27.14	-	60.00	50.00	-32.86	-

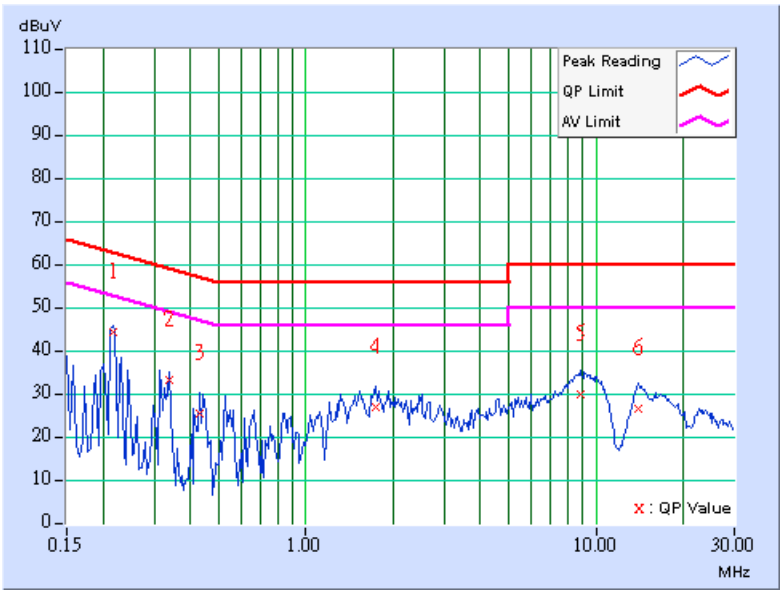
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.216	0.10	43.99	-	44.09	-	62.96	52.96	-18.87	-
2	0.338	0.10	32.69	-	32.79	-	59.26	49.26	-26.47	-
3	0.431	0.10	24.98	-	25.08	-	57.23	47.23	-32.15	-
4	1.734	0.17	26.37	-	26.54	-	56.00	46.00	-29.46	-
5	8.867	0.44	29.53	-	29.97	-	60.00	50.00	-30.03	-
6	13.965	0.52	26.11	-	26.63	-	60.00	50.00	-33.37	-

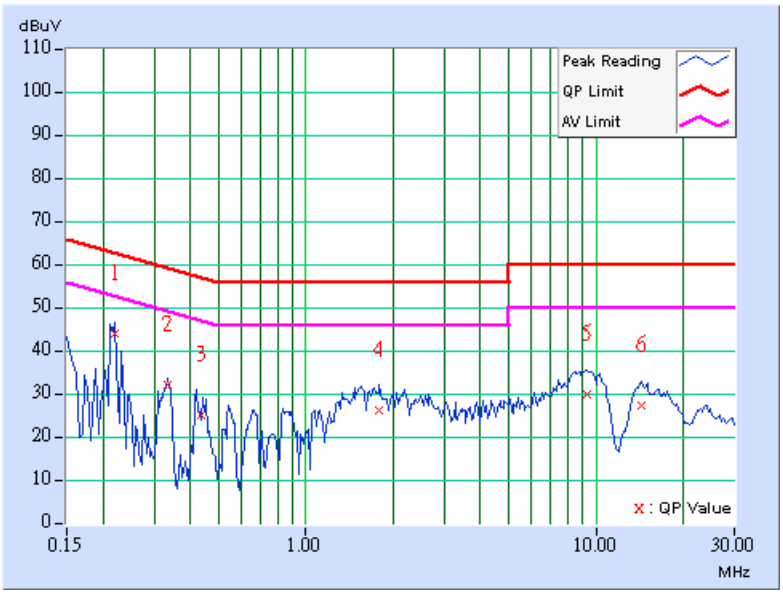
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.220	0.10	43.55	-	43.65	-	62.81	52.81	-19.16	-
2	0.334	0.10	31.78	-	31.88	-	59.36	49.36	-27.48	-
3	0.439	0.11	24.40	-	24.51	-	57.09	47.09	-32.58	-
4	1.793	0.20	25.69	-	25.89	-	56.00	46.00	-30.11	-
5	9.324	0.46	29.51	-	29.97	-	60.00	50.00	-30.03	-
6	14.430	0.61	26.89	-	27.50	-	60.00	50.00	-32.50	-

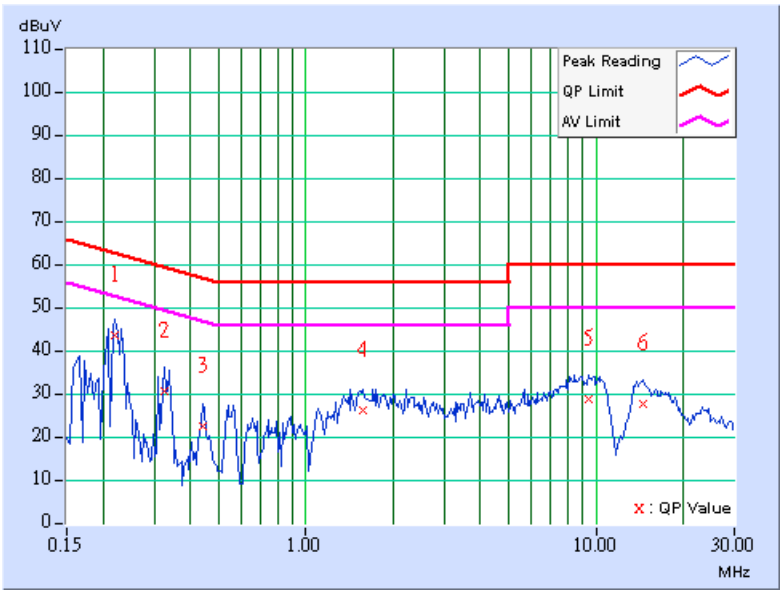
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.220	0.10	43.33	-	43.43	-	62.81	52.81	-19.38	-
2	0.326	0.10	30.33	-	30.43	-	59.56	49.56	-29.13	-
3	0.439	0.10	21.96	-	22.06	-	57.08	47.08	-35.02	-
4	1.566	0.16	25.79	-	25.95	-	56.00	46.00	-30.05	-
5	9.449	0.45	28.34	-	28.79	-	60.00	50.00	-31.21	-
6	14.516	0.52	27.13	-	27.65	-	60.00	50.00	-32.35	-

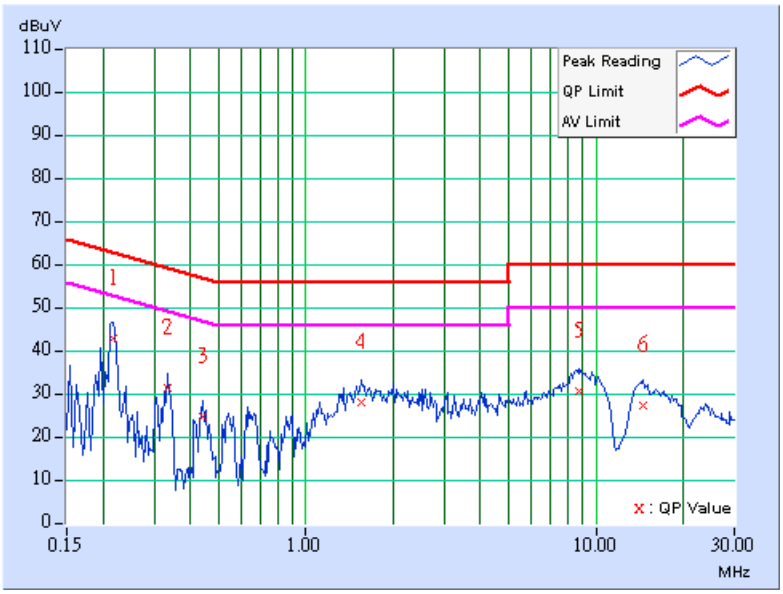
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.216	0.10	42.40	-	42.50	-	62.96	52.96	-20.46	-
2	0.334	0.10	30.83	-	30.93	-	59.36	49.36	-28.43	-
3	0.443	0.11	24.27	-	24.38	-	57.01	47.01	-32.63	-
4	1.559	0.20	27.39	-	27.59	-	56.00	46.00	-28.41	-
5	8.797	0.46	30.21	-	30.67	-	60.00	50.00	-29.33	-
6	14.578	0.62	26.64	-	27.26	-	60.00	50.00	-32.74	-

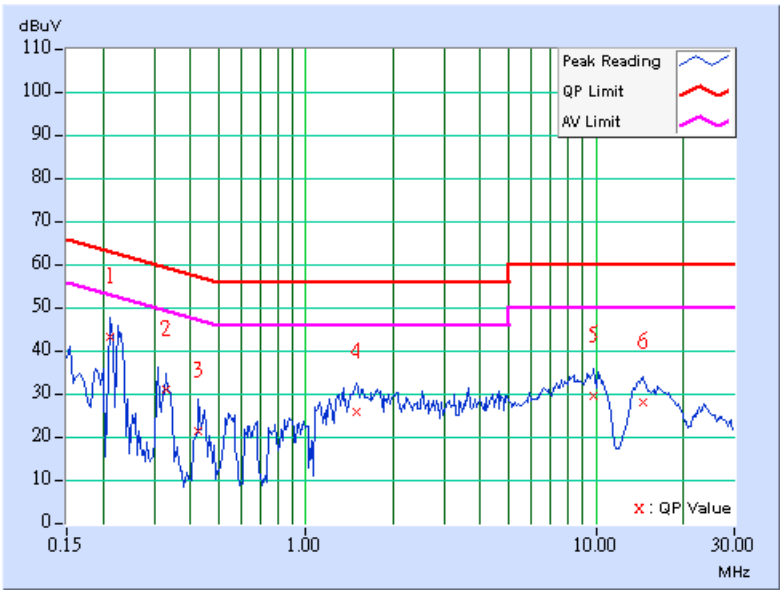
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.213	0.10	42.99	-	43.09	-	63.11	53.11	-20.02	-
2	0.330	0.10	30.61	-	30.71	-	59.46	49.46	-28.75	-
3	0.427	0.10	20.97	-	21.07	-	57.30	47.30	-36.23	-
4	1.500	0.15	25.35	-	25.50	-	56.00	46.00	-30.50	-
5	9.863	0.46	28.93	-	29.39	-	60.00	50.00	-30.61	-
6	14.461	0.52	27.47	-	27.99	-	60.00	50.00	-32.01	-

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.

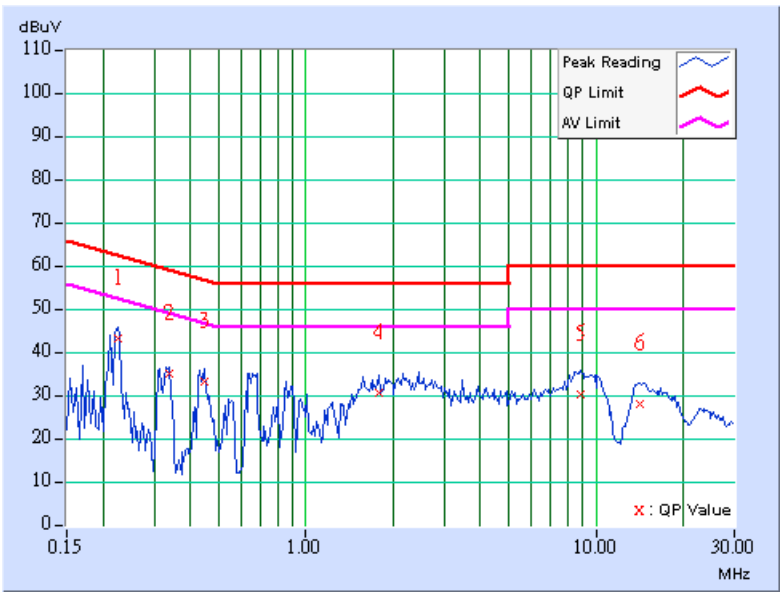


DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.224	0.10	42.74	-	42.84	-	62.66	52.66	-19.82	-
2	0.338	0.10	34.44	-	34.54	-	59.26	49.26	-24.72	-
3	0.447	0.11	32.87	-	32.98	-	56.93	46.93	-23.96	-
4	1.785	0.20	30.04	-	30.24	-	56.00	46.00	-25.76	-
5	8.867	0.46	29.63	-	30.09	-	60.00	50.00	-29.91	-
6	14.207	0.60	27.47	-	28.07	-	60.00	50.00	-31.93	-

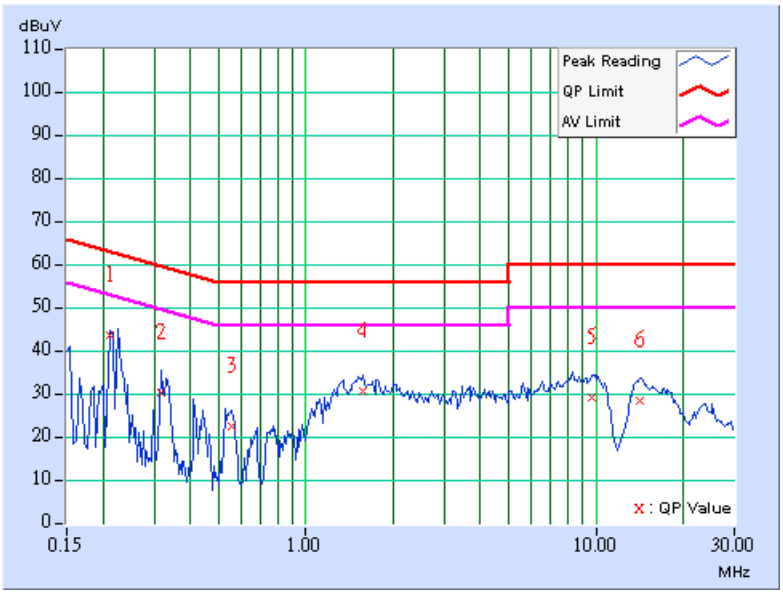
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.213	0.10	43.23	-	43.33	-	63.11	53.11	-19.78	-
2	0.318	0.10	29.82	-	29.92	-	59.76	49.76	-29.84	-
3	0.556	0.10	22.11	-	22.21	-	56.00	46.00	-33.79	-
4	1.570	0.16	30.10	-	30.26	-	56.00	46.00	-25.74	-
5	9.676	0.46	28.89	-	29.35	-	60.00	50.00	-30.65	-
6	14.141	0.52	27.86	-	28.38	-	60.00	50.00	-31.62	-

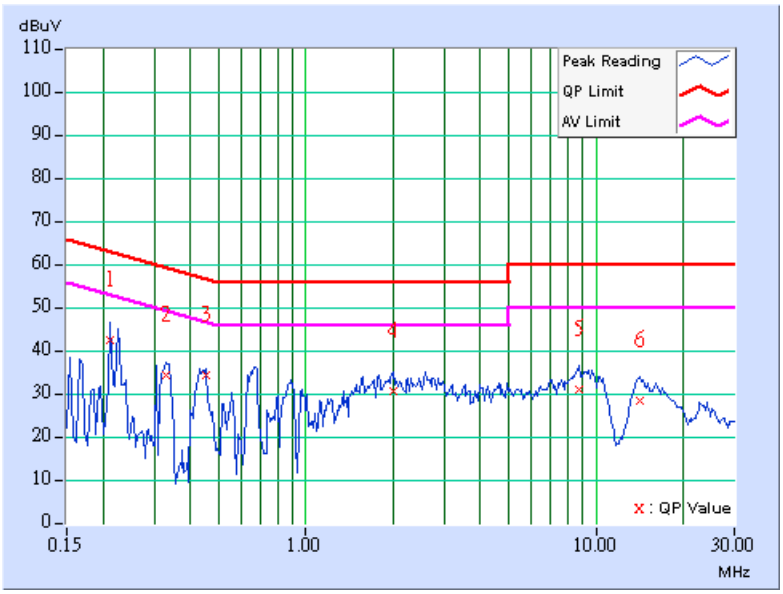
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.213	0.10	41.93	-	42.03	-	63.11	53.11	-21.08	-
2	0.330	0.10	33.93	-	34.03	-	59.46	49.46	-25.43	-
3	0.451	0.11	33.87	-	33.98	-	56.86	46.86	-22.88	-
4	2.000	0.20	30.14	-	30.34	-	56.00	46.00	-25.66	-
5	8.695	0.46	30.37	-	30.83	-	60.00	50.00	-29.17	-
6	14.254	0.60	27.91	-	28.51	-	60.00	50.00	-31.49	-

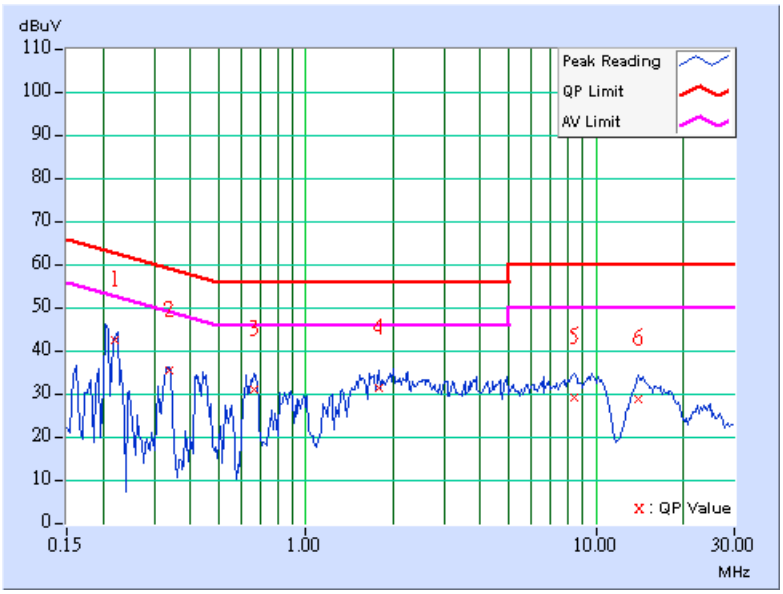
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.219	0.10	41.94	-	42.04	-	62.87	52.87	-20.83	-
2	0.338	0.10	35.07	-	35.17	-	59.26	49.26	-24.09	-
3	0.662	0.10	30.54	-	30.64	-	56.00	46.00	-25.36	-
4	1.797	0.18	30.98	-	31.16	-	56.00	46.00	-24.84	-
5	8.375	0.44	28.80	-	29.24	-	60.00	50.00	-30.76	-
6	14.051	0.52	28.41	-	28.93	-	60.00	50.00	-31.07	-

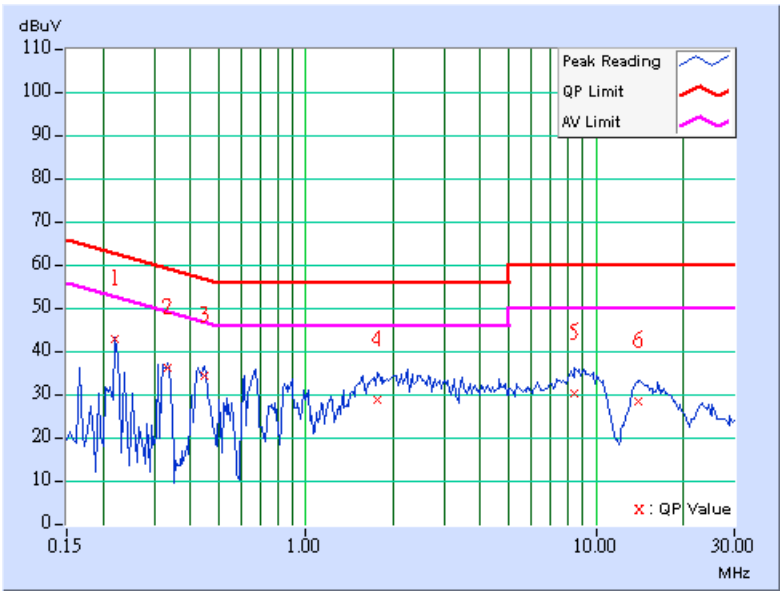
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.220	0.10	42.20	-	42.30	-	62.81	52.81	-20.51	-
2	0.334	0.10	35.57	-	35.67	-	59.36	49.36	-23.69	-
3	0.447	0.11	33.99	-	34.10	-	56.93	46.93	-22.84	-
4	1.773	0.20	28.31	-	28.51	-	56.00	46.00	-27.49	-
5	8.414	0.46	29.93	-	30.39	-	60.00	50.00	-29.61	-
6	14.043	0.60	28.01	-	28.61	-	60.00	50.00	-31.39	-

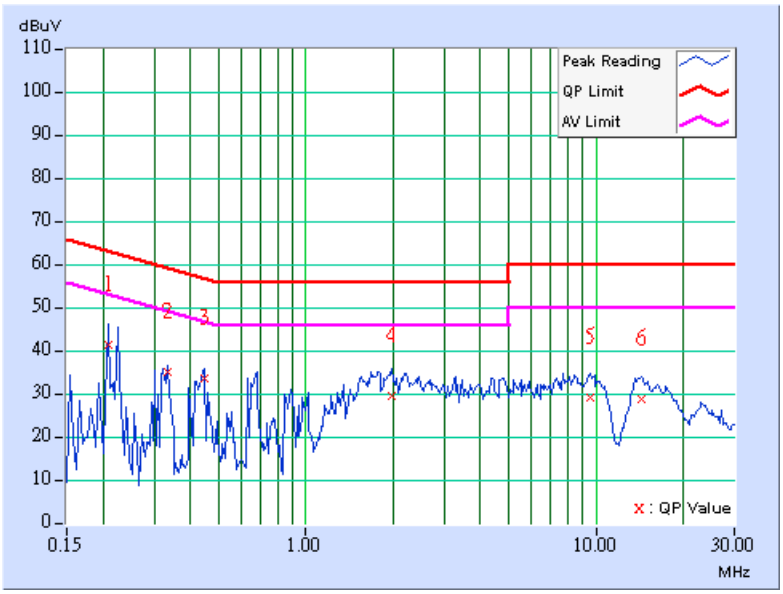
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.209	0.10	41.14	-	41.24	-	63.26	53.26	-22.02	-
2	0.334	0.10	34.76	-	34.86	-	59.36	49.36	-24.50	-
3	0.447	0.10	33.33	-	33.43	-	56.93	46.93	-23.50	-
4	1.977	0.20	29.24	-	29.44	-	56.00	46.00	-26.56	-
5	9.520	0.45	28.66	-	29.11	-	60.00	50.00	-30.89	-
6	14.422	0.52	28.36	-	28.88	-	60.00	50.00	-31.12	-

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.

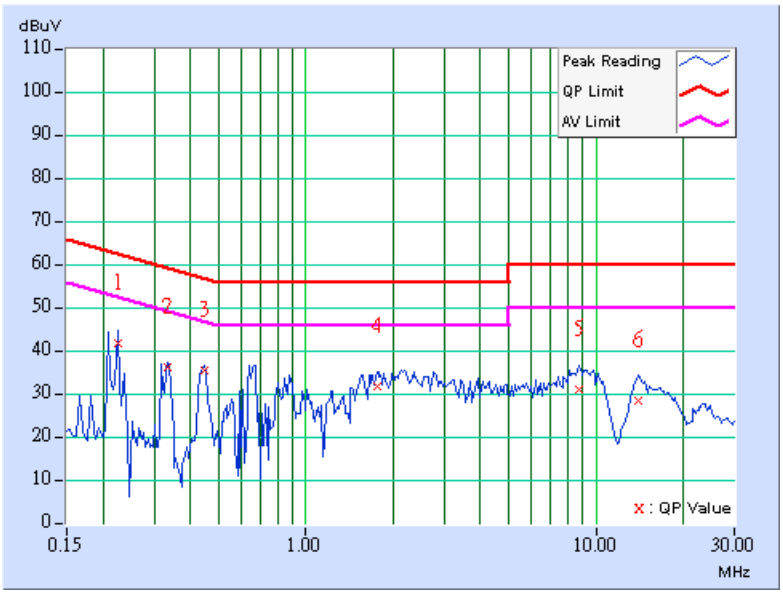


802.11b (CB mode) DSSS MODULATION: DUAL TX:

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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.224	0.10	41.43	-	41.53	-	62.66	52.66	-21.13	-
2	0.334	0.10	35.59	-	35.69	-	59.36	49.36	-23.67	-
3	0.447	0.11	35.04	-	35.15	-	56.93	46.93	-21.79	-
4	1.758	0.20	31.22	-	31.42	-	56.00	46.00	-24.58	-
5	8.742	0.46	30.45	-	30.91	-	60.00	50.00	-29.09	-
6	14.055	0.60	27.96	-	28.56	-	60.00	50.00	-31.44	-

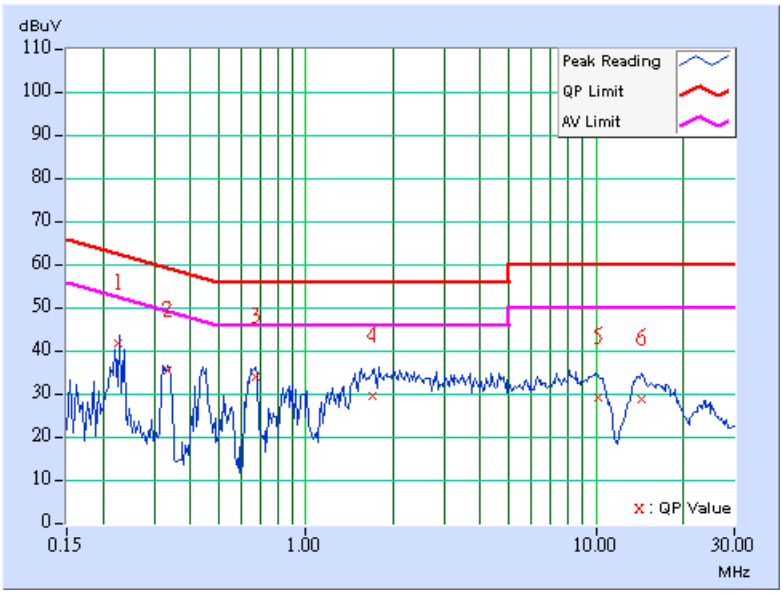
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.224	0.10	41.49	-	41.59	-	62.66	52.66	-21.07	-
2	0.334	0.10	35.20	-	35.30	-	59.36	49.36	-24.06	-
3	0.670	0.10	33.46	-	33.56	-	56.00	46.00	-22.44	-
4	1.703	0.17	29.26	-	29.43	-	56.00	46.00	-26.57	-
5	10.129	0.46	28.84	-	29.30	-	60.00	50.00	-30.70	-
6	14.371	0.52	28.44	-	28.96	-	60.00	50.00	-31.04	-

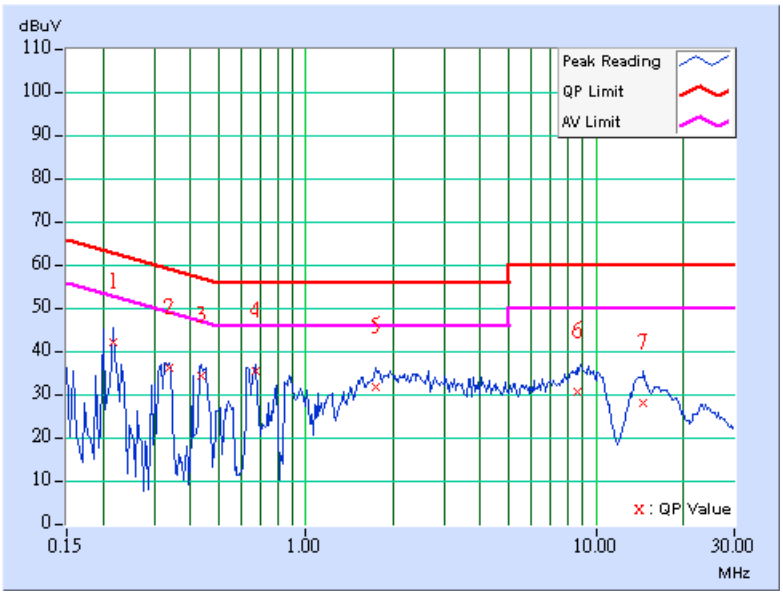
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 1
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.216	0.10	41.59	-	41.69	-	62.96	52.96	-21.27	-
2	0.338	0.10	35.78	-	35.88	-	59.26	49.26	-23.38	-
3	0.435	0.11	33.98	-	34.09	-	57.15	47.15	-23.07	-
4	0.670	0.14	34.77	-	34.91	-	56.00	46.00	-21.09	-
5	1.750	0.20	31.12	-	31.32	-	56.00	46.00	-24.68	-
6	8.594	0.46	30.23	-	30.69	-	60.00	50.00	-29.31	-
7	14.543	0.61	27.71	-	28.32	-	60.00	50.00	-31.68	-

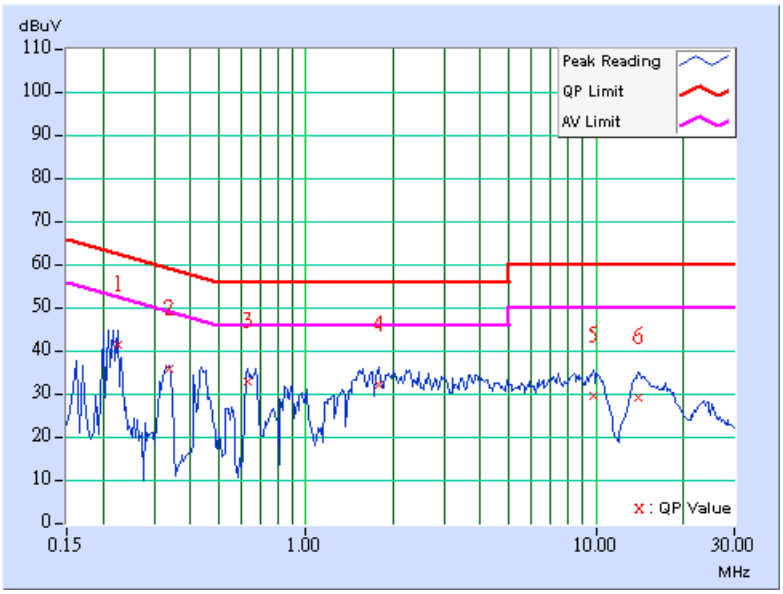
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.224	0.10	40.91	-	41.01	-	62.66	52.66	-21.65	-
2	0.338	0.10	35.25	-	35.35	-	59.26	49.26	-23.91	-
3	0.634	0.10	32.60	-	32.70	-	56.00	46.00	-23.30	-
4	1.785	0.18	31.77	-	31.95	-	56.00	46.00	-24.05	-
5	9.813	0.46	29.01	-	29.47	-	60.00	50.00	-30.53	-
6	14.055	0.52	28.69	-	29.21	-	60.00	50.00	-30.79	-

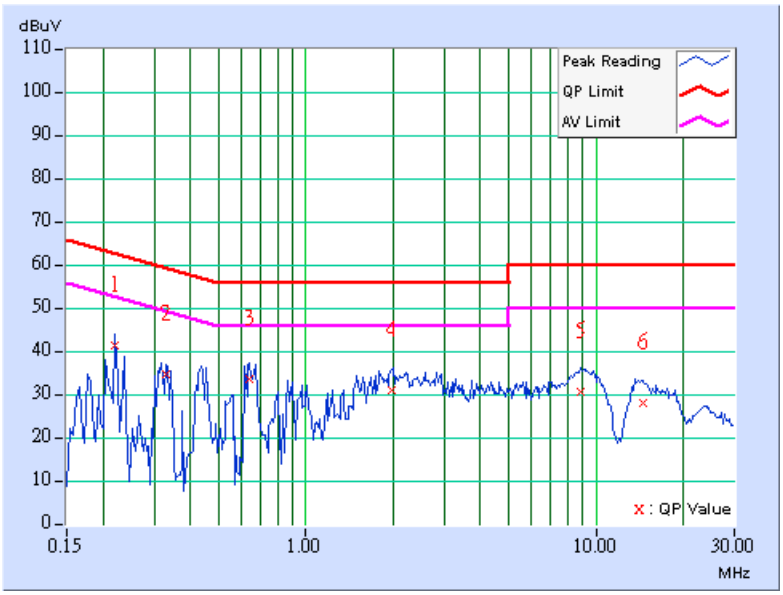
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.220	0.10	41.03	-	41.13	-	62.81	52.81	-21.68	-
2	0.328	0.10	34.11	-	34.21	-	59.49	49.49	-25.28	-
3	0.638	0.14	32.99	-	33.13	-	56.00	46.00	-22.87	-
4	1.973	0.20	30.61	-	30.81	-	56.00	46.00	-25.19	-
5	8.863	0.46	30.27	-	30.73	-	60.00	50.00	-29.27	-
6	14.523	0.61	27.55	-	28.16	-	60.00	50.00	-31.84	-

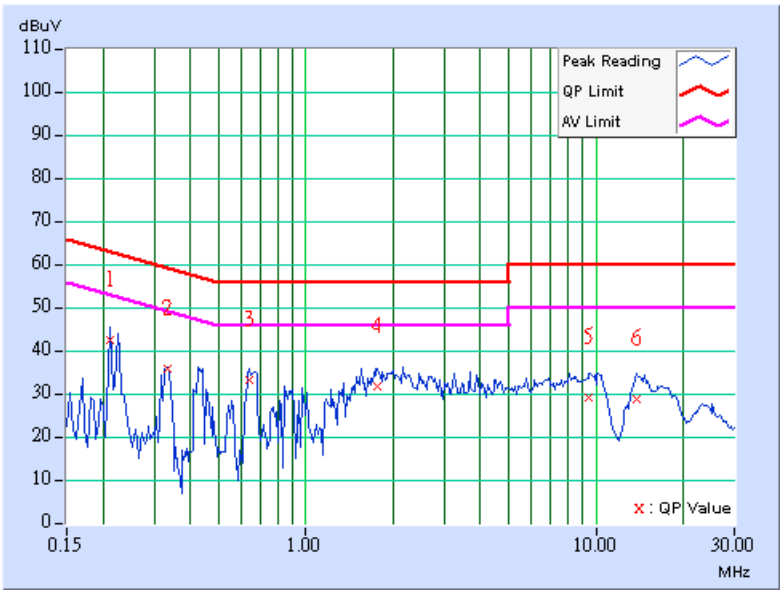
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	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	0.213	0.10	41.99	-	42.09	-	63.11	53.11	-21.02	-
2	0.334	0.10	35.30	-	35.40	-	59.36	49.36	-23.96	-
3	0.642	0.10	32.76	-	32.86	-	56.00	46.00	-23.14	-
4	1.770	0.18	31.27	-	31.45	-	56.00	46.00	-24.55	-
5	9.500	0.45	28.82	-	29.27	-	60.00	50.00	-30.73	-
6	13.902	0.51	28.41	-	28.92	-	60.00	50.00	-31.08	-

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.



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.

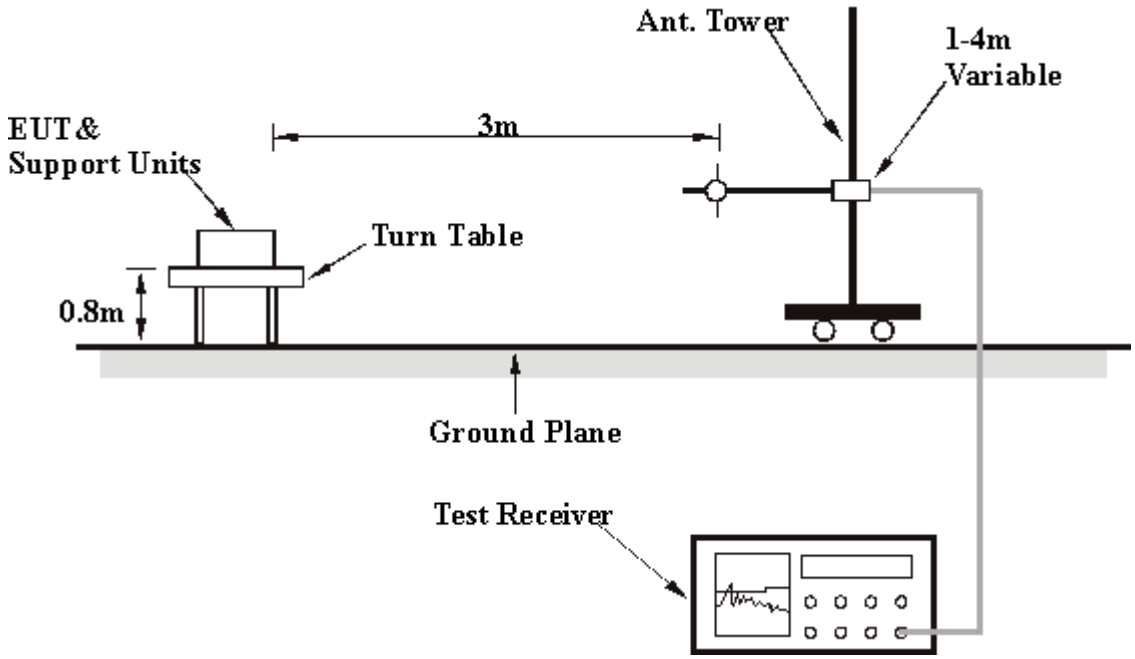
NOTE:

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:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	**FREQUENCY RANGE**	Below 1000MHz
MODULATION TYPE	BPSK for 802.11g	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TRANSFER RATE	6Mbps	**DETECTOR FUNCTION**	Quasi-Peak
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	166.07	28.90 QP	43.50	-14.60	1.00 H	307	16.06	12.83
2	267.15	29.46 QP	46.00	-16.54	1.25 H	46	15.82	13.63
3	300.20	30.56 QP	46.00	-15.44	1.00 H	4	15.12	15.43
4	331.30	43.01 QP	46.00	-2.99	1.50 H	310	27.15	15.86
5	463.49	27.83 QP	46.00	-18.17	1.00 H	79	8.80	19.03
6	731.74	31.92 QP	46.00	-14.08	1.25 H	157	6.74	25.18

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	333.25	33.96 QP	46.00	-12.04	1.50 V	211	18.07	15.89
2	399.34	29.07 QP	46.00	-16.93	1.50 V	205	11.29	17.78
3	467.37	26.63 QP	46.00	-19.37	1.50 V	112	7.50	19.13
4	572.34	26.99 QP	46.00	-19.01	1.00 V	136	5.29	21.69
5	731.74	28.16 QP	46.00	-17.84	1.50 V	1	2.97	25.18
6	865.87	31.88 QP	46.00	-14.12	1.25 V	319	4.91	26.97

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:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	**FREQUENCY RANGE**	Below 1000MHz
MODULATION TYPE	BPSK for draft 802.11n (20MHz)	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	**DETECTOR FUNCTION**	Quasi-Peak
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	199.12	27.84 QP	43.50	-15.66	1.25 H	16	17.03	10.81
2	333.25	42.46 QP	46.00	-3.54	1.25 H	115	26.57	15.89
3	393.51	28.14 QP	46.00	-17.86	1.00 H	16	10.56	17.58
4	465.43	28.64 QP	46.00	-17.36	1.00 H	10	9.56	19.08
5	733.69	30.71 QP	46.00	-15.29	1.25 H	136	5.47	25.25
6	928.08	31.07 QP	46.00	-14.93	1.00 H	334	2.31	28.76

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	199.12	24.73 QP	43.50	-18.77	1.00 V	10	13.92	10.81
2	333.25	32.14 QP	46.00	-13.86	1.25 V	199	16.26	15.89
3	399.34	29.74 QP	46.00	-16.26	1.25 V	190	11.96	17.78
4	465.43	25.17 QP	46.00	-20.83	1.25 V	247	6.08	19.08
5	572.34	26.45 QP	46.00	-19.55	1.00 V	160	4.76	21.69
6	933.91	31.94 QP	46.00	-14.06	1.25 V	256	2.90	29.04

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

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

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	**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	27.71 QP	43.50	-15.79	1.25 H	31	16.90	10.81
2	267.15	29.41 QP	46.00	-16.59	1.00 H	34	15.78	13.63
3	333.25	43.59 QP	46.00	-2.41	1.25 H	133	27.71	15.89
4	397.39	29.20 QP	46.00	-16.80	1.00 H	76	11.49	17.71
5	731.74	30.98 QP	46.00	-15.02	1.25 H	55	5.79	25.18
6	863.93	30.90 QP	46.00	-15.10	1.00 H	55	3.96	26.94

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	70.82	25.36 QP	40.00	-14.64	1.00 V	325	13.82	11.54
2	199.12	24.32 QP	43.50	-19.18	1.00 V	28	13.51	10.81
3	331.30	31.46 QP	46.00	-14.54	1.25 V	211	15.60	15.86
4	397.39	27.82 QP	46.00	-18.18	1.25 V	28	10.11	17.71
5	467.37	26.53 QP	46.00	-19.47	1.00 V	277	7.40	19.13
6	867.82	29.63 QP	46.00	-16.37	1.25 V	343	2.64	26.99

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

802.11b DSSS MODULATION: 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	22deg. C, 64%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	2390.00	59.37 PK	74.00	-14.63	1.07 H	220	27.27	32.10
1	2390.00	49.52 AV	54.00	-4.48	1.07 H	220	17.42	32.10
2	*2412.00	107.99 PK			1.39 H	159	75.81	32.18
2	*2412.00	104.27 AV			1.39 H	159	72.09	32.18
3	4824.00	56.53 PK	74.00	-17.47	1.34 H	191	17.90	38.63
3	4824.00	52.66 AV	54.00	-1.34	1.34 H	191	14.03	38.63
4	7236.00	53.92 PK	74.00	-20.08	1.34 H	46	8.63	45.29
4	7236.00	42.75 AV	54.00	-11.25	1.34 H	46	-2.54	45.29

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	47.90 PK	74.00	-26.10	1.08 V	156	15.80	32.10
1	2390.00	44.15 AV	54.00	-9.85	1.08 V	156	12.05	32.10
2	*2412.00	102.65 PK			1.10 V	188	70.47	32.18
2	*2412.00	98.90 AV			1.10 V	188	66.72	32.18
3	4824.00	55.92 PK	74.00	-18.08	1.10 V	240	17.29	38.63
3	**4824.00**	**52.89 AV**	**54.00**	**-1.11**	**1.10 V**	**240**	**14.26**	**38.63**
4	7236.00	52.50 PK	74.00	-21.50	1.10 V	270	7.21	45.29
4	7236.00	41.85 AV	54.00	-12.15	1.10 V	270	-3.44	45.29

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
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	22deg. C, 64%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	*2437.00	109.04 PK			1.47 H	152	76.77	32.27
1	*2437.00	105.36 AV			1.47 H	152	73.09	32.27
2	4874.00	57.12 PK	74.00	-16.88	1.08 H	137	18.35	38.77
2	4874.00	52.72 AV	54.00	-1.28	1.08 H	137	13.95	38.77
3	7311.00	54.02 PK	74.00	-19.98	1.30 H	204	8.53	45.49
3	7311.00	42.83 AV	54.00	-11.17	1.30 H	204	-2.66	45.49

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	103.59 PK			1.06 V	191	71.32	32.27
1	*2437.00	99.93 AV			1.06 V	191	67.66	32.27
2	4874.00	54.82 PK	74.00	-19.18	1.14 V	235	16.05	38.77
2	4874.00	51.73 AV	54.00	-2.27	1.14 V	235	12.96	38.77
3	7311.00	52.41 PK	74.00	-21.59	1.14 V	258	6.92	45.49
3	7311.00	41.72 AV	54.00	-12.28	1.14 V	258	-3.77	45.49

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. 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	22deg. C, 64%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	*2462.00	107.86 PK			1.42 H	160	75.50	32.36
1	*2462.00	104.14 AV			1.42 H	160	71.78	32.36
2	2483.50	58.87 PK	74.00	-15.13	1.07 H	20	26.43	32.44
2	2483.50	49.22 AV	54.00	-4.78	1.07 H	20	16.78	32.44
3	4924.00	56.46 PK	74.00	-17.54	1.04 H	172	17.56	38.90
3	4924.00	52.13 AV	54.00	-1.87	1.04 H	172	13.23	38.90
4	7386.00	53.87 PK	74.00	-20.13	1.24 H	187	8.18	45.69
4	7386.00	42.68 AV	54.00	-11.32	1.24 H	187	-3.01	45.69

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.18 PK			1.06 V	173	69.82	32.36
1	*2462.00	98.43 AV			1.06 V	173	66.07	32.36
2	2483.50	47.26 PK	74.00	-26.74	1.03 V	79	14.82	32.44
2	2483.50	43.51 AV	54.00	-10.49	1.03 V	79	11.07	32.44
3	4924.00	55.71 PK	74.00	-18.29	1.06 V	221	16.81	38.90
3	4924.00	52.67 AV	54.00	-1.33	1.06 V	221	13.77	38.90
4	7236.00	52.22 PK	74.00	-21.78	1.09 V	187	6.93	45.29
4	7236.00	41.51 AV	54.00	-12.49	1.09 V	187	-3.78	45.29

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
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	22deg. C, 64%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	2390.00	66.99 PK	74.00	-7.01	1.02 H	215	34.89	32.10
1	2390.00	52.70 AV	54.00	-1.30	1.02 H	215	20.60	32.10
2	*2412.00	109.81 PK			1.02 H	217	77.63	32.18
2	*2412.00	99.41 AV			1.02 H	217	67.23	32.18
3	4824.00	49.64 PK	74.00	-24.36	1.00 H	177	11.01	38.63
3	4824.00	37.70 AV	54.00	-16.30	1.00 H	177	-0.93	38.63
4	7236.00	53.68 PK	74.00	-20.32	1.00 H	108	8.39	45.29
4	7236.00	41.05 AV	54.00	-12.95	1.00 H	108	-4.24	45.29

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.26 PK	74.00	-17.74	1.08 V	236	24.16	32.10
1	2390.00	47.71 AV	54.00	-6.29	1.08 V	236	15.61	32.10
2	*2412.00	102.97 PK			1.00 V	83	70.79	32.18
2	*2412.00	93.12 AV			1.00 V	83	60.94	32.18
3	4824.00	47.67 PK	74.00	-26.33	1.00 V	68	9.04	38.63
3	4824.00	35.19 AV	54.00	-18.81	1.00 V	68	-3.44	38.63
4	7236.00	54.72 PK	74.00	-19.28	1.05 V	214	9.43	45.29
4	7236.00	42.08 AV	54.00	-11.92	1.05 V	214	-3.21	45.29

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
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	22deg. C, 64%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	2390.00	63.24 PK	74.00	-10.76	1.11 H	173	31.14	32.10
1	2390.00	50.87 AV	54.00	-3.13	1.11 H	173	18.77	32.10
2	*2437.00	112.50 PK			1.05 H	197	80.23	32.27
2	*2437.00	103.12 AV			1.05 H	197	70.85	32.27
3	2483.50	64.50 PK	74.00	-9.50	1.07 H	172	32.06	32.44
3	2483.50	52.49 AV	54.00	-1.51	1.07 H	172	20.05	32.44
4	4874.00	49.81 PK	74.00	-24.19	1.09 H	154	11.04	38.77
4	4874.00	37.85 AV	54.00	-16.15	1.09 H	154	-0.92	38.77
5	7311.00	53.82 PK	74.00	-20.18	1.10 H	124	8.33	45.49
5	7311.00	41.19 AV	54.00	-12.81	1.10 H	124	-4.30	45.49

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	53.83 PK	74.00	-20.17	1.04 V	96	21.73	32.10
1	2390.00	43.96 AV	54.00	-10.04	1.04 V	96	11.86	32.10
2	*2437.00	106.08 PK			1.03 V	92	73.81	32.27
2	*2437.00	96.21 AV			1.03 V	92	63.94	32.27
3	2483.50	55.45 PK	74.00	-18.55	1.04 V	100	23.01	32.44
3	2483.50	45.58 AV	54.00	-8.42	1.04 V	100	13.14	32.44
4	4874.00	47.78 PK	74.00	-26.22	1.08 V	162	9.01	38.77
4	4874.00	35.35 AV	54.00	-18.65	1.08 V	162	-3.42	38.77
5	7311.00	54.83 PK	74.00	-19.17	1.20 V	113	9.34	45.49
5	7311.00	42.20 AV	54.00	-11.80	1.20 V	113	-3.29	45.49

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. 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	22deg. C, 64%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	*2462.00	110.36 PK			1.00 H	212	78.00	32.36
1	*2462.00	99.57 AV			1.00 H	212	67.21	32.36
2	2483.50	68.40 PK	74.00	-5.60	1.00 H	208	35.96	32.44
2	2483.50	52.50 AV	54.00	-1.50	1.00 H	208	20.06	32.44
3	4924.00	49.47 PK	74.00	-24.53	1.00 H	83	10.57	38.90
3	4924.00	37.53 AV	54.00	-16.47	1.00 H	83	-1.37	38.90
4	7386.00	53.55 PK	74.00	-20.45	1.00 H	157	7.86	45.69
4	7386.00	40.96 AV	54.00	-13.04	1.00 H	157	-4.73	45.69

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.41 PK			1.00 V	84	71.05	32.36
1	*2462.00	93.43 AV			1.00 V	84	61.07	32.36
2	2483.50	45.48 PK	74.00	-28.52	1.00 V	107	13.04	32.44
2	2483.50	35.50 AV	54.00	-18.50	1.00 V	107	3.06	32.44
3	4924.00	47.53 PK	74.00	-26.47	1.03 V	254	8.63	38.90
3	4924.00	35.05 AV	54.00	-18.95	1.03 V	254	-3.85	38.90
4	7386.00	54.60 PK	74.00	-19.40	1.09 V	235	8.91	45.69
4	7386.00	41.97 AV	54.00	-12.03	1.09 V	235	-3.72	45.69

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
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	2390.00	64.79 PK	74.00	-9.21	1.11 H	191	32.69	32.10
1	2390.00	52.85 AV	54.00	-1.15	1.11 H	191	20.75	32.10
2	*2412.00	109.10 PK			1.12 H	199	76.92	32.18
2	*2412.00	98.03 AV			1.12 H	199	65.85	32.18
3	4824.00	50.08 PK	74.00	-23.92	1.05 H	174	11.45	38.63
3	4824.00	36.84 AV	54.00	-17.16	1.05 H	174	-1.79	38.63
4	7236.00	52.41 PK	74.00	-21.59	1.15 H	278	7.12	45.29
4	7236.00	40.37 AV	54.00	-13.63	1.15 H	278	-4.92	45.29

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	45.68 PK	74.00	-28.32	1.24 V	172	13.58	32.10
1	2390.00	44.06 AV	54.00	-9.94	1.24 V	172	11.96	32.10
2	*2412.00	106.87 PK			1.05 V	272	74.69	32.18
2	*2412.00	95.25 AV			1.05 V	272	63.07	32.18
3	4824.00	49.61 PK	74.00	-24.39	1.57 V	235	10.98	38.63
3	4824.00	38.44 AV	54.00	-15.56	1.57 V	235	-0.19	38.63
4	7236.00	51.71 PK	74.00	-22.29	1.40 V	101	6.42	45.29
4	7236.00	39.92 AV	54.00	-14.08	1.40 V	101	-5.37	45.29

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
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	22deg. C, 64%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	2390.00	65.93 PK	74.00	-8.07	1.40 H	118	33.83	32.10
1	2390.00	52.87 AV	54.00	-1.13	1.40 H	118	20.77	32.10
2	*2437.00	114.57 PK			1.37 H	117	82.30	32.27
2	*2437.00	103.64 AV			1.37 H	117	71.37	32.27
3	2483.50	63.53 PK	74.00	-10.47	1.36 H	99	31.09	32.44
3	2483.50	50.96 AV	54.00	-3.04	1.36 H	99	18.52	32.44
4	4874.00	52.33 PK	74.00	-21.67	1.37 H	189	13.56	38.77
4	4874.00	38.17 AV	54.00	-15.83	1.37 H	189	-0.60	38.77
5	7311.00	52.97 PK	74.00	-21.03	1.00 H	36	7.48	45.49
5	7311.00	40.76 AV	54.00	-13.24	1.00 H	36	-4.73	45.49

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.16 PK	74.00	-12.84	1.29 V	69	29.06	32.10
1	2390.00	49.60 AV	54.00	-4.40	1.29 V	69	17.50	32.10
2	*2437.00	111.93 PK			1.14 V	248	79.66	32.27
2	*2437.00	100.37 AV			1.14 V	248	68.10	32.27
3	4874.00	51.68 PK	74.00	-22.32	1.41 V	210	12.91	38.77
3	4874.00	40.71 AV	54.00	-13.29	1.41 V	210	1.94	38.77
4	7311.00	51.82 PK	74.00	-22.18	1.24 V	167	6.33	45.49
4	7311.00	40.01 AV	54.00	-13.99	1.24 V	167	-5.48	45.49

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. 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	22deg. C, 64%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	*2462.00	108.37 PK			1.38 H	110	76.01	32.36
1	*2462.00	97.67 AV			1.38 H	110	65.31	32.36
2	2483.50	64.32 PK	74.00	-9.68	1.28 H	204	31.88	32.44
2	2483.50	52.65 AV	54.00	-1.35	1.28 H	204	20.21	32.44
3	4924.00	49.64 PK	74.00	-24.36	1.12 H	163	10.74	38.90
3	4924.00	36.41 AV	54.00	-17.59	1.12 H	163	-2.49	38.90
4	7386.00	52.33 PK	74.00	-21.67	1.32 H	254	6.64	45.69
4	7386.00	40.21 AV	54.00	-13.79	1.32 H	254	-5.48	45.69

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.92 PK			1.08 V	263	73.56	32.36
1	*2462.00	94.28 AV			1.08 V	263	61.92	32.36
2	2483.50	60.90 PK	74.00	-13.10	1.12 V	257	28.46	32.44
2	2483.50	49.26 AV	54.00	-4.74	1.12 V	257	16.82	32.44
3	4924.00	49.23 PK	74.00	-24.77	1.47 V	186	10.33	38.90
3	4924.00	38.06 AV	54.00	-15.94	1.47 V	186	-0.84	38.90
4	7386.00	51.55 PK	74.00	-22.45	1.21 V	80	5.86	45.69
4	7386.00	39.71 AV	54.00	-14.29	1.21 V	80	-5.98	45.69

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
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	22deg. C, 64%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	2390.00	67.27 PK	74.00	-6.73	1.38 H	280	35.17	32.10
1	2390.00	52.59 AV	54.00	-1.41	1.38 H	280	20.49	32.10
2	*2422.00	107.03 PK			1.35 H	284	74.81	32.22
2	*2422.00	95.83 AV			1.35 H	284	63.61	32.22
3	4844.00	49.56 PK	74.00	-24.44	1.07 H	213	10.88	38.68
3	4844.00	36.39 AV	54.00	-17.61	1.07 H	213	-2.29	38.68
4	7266.00	52.15 PK	74.00	-21.85	1.09 H	236	6.78	45.37
4	7266.00	40.09 AV	54.00	-13.91	1.09 H	236	-5.28	45.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.60 PK	74.00	-8.40	1.04 V	98	33.50	32.10
1	2390.00	51.08 AV	54.00	-2.92	1.04 V	98	18.98	32.10
2	*2422.00	105.36 PK			1.04 V	98	73.14	32.22
2	*2422.00	94.32 AV			1.04 V	98	62.10	32.22
3	4844.00	49.26 PK	74.00	-24.74	1.21 V	29	10.58	38.68
3	4844.00	38.07 AV	54.00	-15.93	1.21 V	29	-0.61	38.68
4	7266.00	51.46 PK	74.00	-22.54	1.11 V	225	6.09	45.37
4	7266.00	39.70 AV	54.00	-14.30	1.11 V	225	-5.67	45.37

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	22deg. C, 64%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	2390.00	67.45 PK	74.00	-6.55	1.35 H	278	35.35	32.10
1	2390.00	52.43 AV	54.00	-1.57	1.35 H	278	20.33	32.10
2	*2437.00	108.62 PK			1.33 H	280	76.35	32.27
2	*2437.00	97.34 AV			1.33 H	280	65.07	32.27
3	2483.50	65.68 PK	74.00	-8.32	1.33 H	279	33.24	32.44
3	2483.50	51.35 AV	54.00	-2.65	1.33 H	279	18.91	32.44
4	4874.00	51.23 PK	74.00	-22.77	1.01 H	24	12.46	38.77
4	4874.00	38.06 AV	54.00	-15.94	1.01 H	24	-0.71	38.77
5	7311.00	52.65 PK	74.00	-21.35	1.10 H	198	7.16	45.49
5	7311.00	40.60 AV	54.00	-13.40	1.10 H	198	-4.89	45.49

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.66 PK	74.00	-8.34	1.05 V	100	33.56	32.10
1	2390.00	50.66 AV	54.00	-3.34	1.05 V	100	18.56	32.10
2	*2437.00	106.83 PK			1.05 V	100	74.56	32.27
2	*2437.00	95.57 AV			1.05 V	100	63.30	32.27
3	2483.50	63.89 PK	74.00	-10.11	1.05 V	100	31.45	32.44
3	2483.50	49.58 AV	54.00	-4.42	1.05 V	100	17.14	32.44
4	4874.00	49.17 PK	74.00	-24.83	1.01 V	236	10.40	38.77
4	4874.00	37.96 AV	54.00	-16.04	1.01 V	236	-0.81	38.77
5	7311.00	51.72 PK	74.00	-22.28	1.06 V	84	6.23	45.49
5	7311.00	39.96 AV	54.00	-14.04	1.06 V	84	-5.53	45.49

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. 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	22deg. C, 64%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	*2452.00	105.14 PK			1.33 H	281	72.81	32.33
1	*2452.00	94.10 AV			1.33 H	281	61.77	32.33
2	2483.50	64.29 PK	74.00	-9.71	1.32 H	280	31.85	32.44
2	2483.50	52.41 AV	54.00	-1.59	1.32 H	280	19.97	32.44
3	4904.00	49.71 PK	74.00	-24.29	1.05 H	241	10.86	38.85
3	4904.00	36.62 AV	54.00	-17.38	1.05 H	241	-2.23	38.85
4	7356.00	52.26 PK	74.00	-21.74	1.13 H	269	6.65	45.61
4	7356.00	40.20 AV	54.00	-13.80	1.13 H	269	-5.41	45.61

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	*2452.00	103.60 PK			1.32 V	287	71.27	32.33
1	*2452.00	92.58 AV			1.32 V	287	60.25	32.33
2	2483.50	62.75 PK	74.00	-11.25	1.32 V	287	30.31	32.44
2	2483.50	50.89 AV	54.00	-3.11	1.32 V	287	18.45	32.44
3	4904.00	49.13 PK	74.00	-24.87	1.02 V	253	10.28	38.85
3	4904.00	37.05 AV	54.00	-16.95	1.02 V	253	-1.80	38.85
4	7356.00	51.29 PK	74.00	-22.71	1.01 V	192	5.68	45.61
4	7356.00	39.48 AV	54.00	-14.52	1.01 V	192	-6.13	45.61

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	22deg. C, 64%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	2346.00	61.82 PK	74.00	-12.18	1.06 H	97	29.89	31.93
1	2346.00	52.71 AV	54.00	-1.29	1.06 H	97	20.78	31.93
2	*2432.00	110.57 PK			1.70 H	100	78.31	32.26
2	*2432.00	106.80 AV			1.70 H	100	74.54	32.26
3	4864.00	52.31 PK	74.00	-21.69	1.23 H	151	13.57	38.74
3	4864.00	46.59 AV	54.00	-7.41	1.23 H	151	7.85	38.74
4	7296.00	55.00 PK	74.00	-19.00	1.05 H	213	9.55	45.45
4	7296.00	42.76 AV	54.00	-11.24	1.05 H	213	-2.69	45.45

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	2346.00	51.38 PK	74.00	-22.62	1.09 V	168	19.45	31.93
1	2346.00	47.71 AV	54.00	-6.29	1.09 V	168	15.78	31.93
2	*2432.00	105.47 PK			1.09 V	168	73.21	32.26
2	*2432.00	101.80 AV			1.09 V	168	69.54	32.26
3	4864.00	50.14 PK	74.00	-23.86	1.06 V	203	11.40	38.74
3	4864.00	42.04 AV	54.00	-11.96	1.06 V	203	3.30	38.74
4	7296.00	53.86 PK	74.00	-20.14	1.01 V	234	8.41	45.45
4	7296.00	41.65 AV	54.00	-12.35	1.01 V	234	-3.80	45.45

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. 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	22deg. C, 64%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	*2442.00	109.77 PK			1.64 H	98	77.48	32.29
1	*2442.00	106.08 AV			1.64 H	98	73.79	32.29
2	2483.50	60.39 PK	74.00	-13.61	1.00 H	107	27.95	32.44
2	2483.50	51.73 AV	54.00	-2.27	1.00 H	107	19.29	32.44
3	4884.00	54.38 PK	74.00	-19.62	1.51 H	153	15.58	38.80
3	4884.00	49.28 AV	54.00	-4.72	1.51 H	153	10.48	38.80
4	7326.00	55.24 PK	74.00	-18.76	1.01 H	256	9.71	45.53
4	7326.00	43.07 AV	54.00	-10.93	1.01 H	256	-2.46	45.53

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	*2442.00	105.25 PK			1.10 V	170	72.96	32.29
1	*2442.00	101.57 AV			1.10 V	170	69.28	32.29
2	2483.50	50.90 PK	74.00	-23.10	1.10 V	170	18.46	32.44
2	2483.50	47.22 AV	54.00	-6.78	1.10 V	170	14.78	32.44
3	4884.00	52.29 PK	74.00	-21.71	1.07 V	223	13.49	38.80
3	4884.00	44.18 AV	54.00	-9.82	1.07 V	223	5.38	38.80
4	7326.00	53.97 PK	74.00	-20.03	1.09 V	265	8.44	45.53
4	7326.00	41.78 AV	54.00	-12.22	1.09 V	265	-3.75	45.53

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	22deg. C, 64%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	2360.00	61.66 PK	74.00	-12.34	1.04 H	70	29.67	31.99
1	2360.00	52.50 AV	54.00	-1.50	1.04 H	70	20.51	31.99
2	*2447.00	111.18 PK			1.68 H	112	78.87	32.31
2	*2447.00	107.42 AV			1.68 H	112	75.11	32.31
3	4894.00	54.12 PK	74.00	-19.88	1.52 H	36	15.30	38.82
3	4894.00	49.42 AV	54.00	-4.58	1.52 H	36	10.60	38.82
4	7341.00	57.37 PK	74.00	-16.63	1.35 H	100	11.80	45.57
4	7341.00	47.75 AV	54.00	-6.25	1.35 H	100	2.18	45.57

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	*2447.00	106.09 PK			1.10 V	161	73.78	32.31
1	*2447.00	102.43 AV			1.10 V	161	70.12	32.31
2	4894.00	53.26 PK	74.00	-20.74	1.09 V	217	14.44	38.82
2	4894.00	45.17 AV	54.00	-8.83	1.09 V	217	6.35	38.82
3	7341.00	55.91 PK	74.00	-18.09	1.06 V	219	10.34	45.57
3	7341.00	43.77 AV	54.00	-10.23	1.06 V	219	-1.80	45.57

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

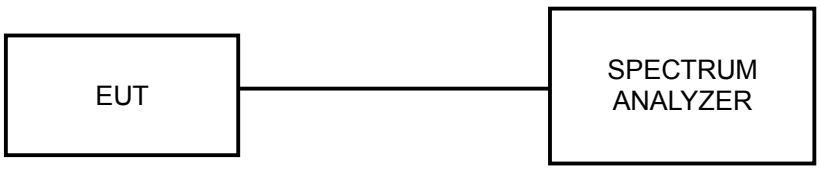
4.3.3 TEST PROCEDURE

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.

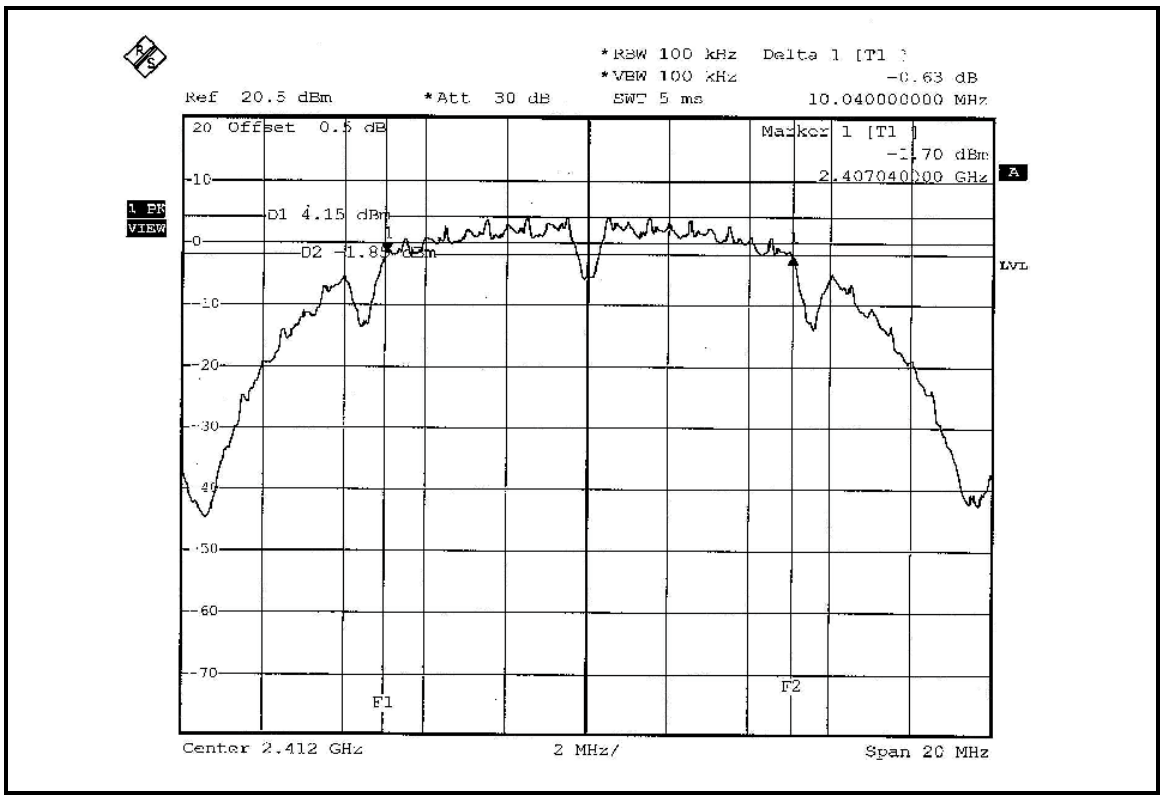
4.3.7 TEST RESULTS

802.11b DSSS MODULATION:

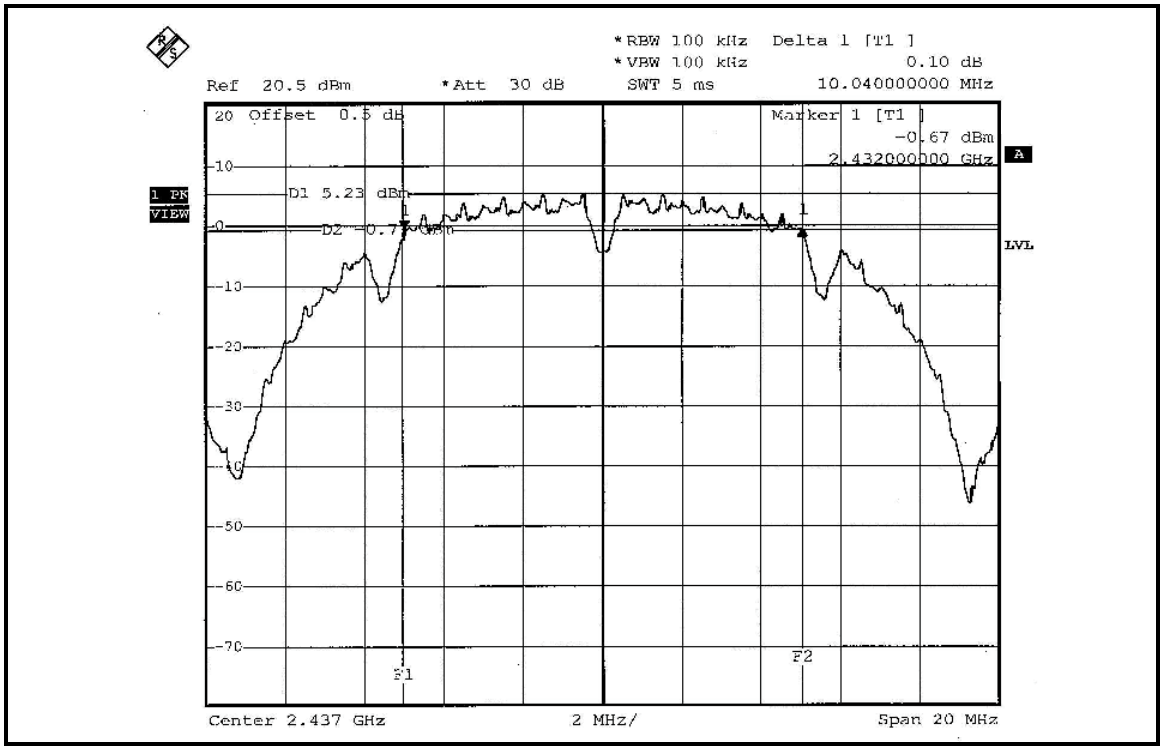
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	10.04	9.96	0.5	PASS
6	2437	10.04	10.08	0.5	PASS
11	2462	10.08	10.08	0.5	PASS

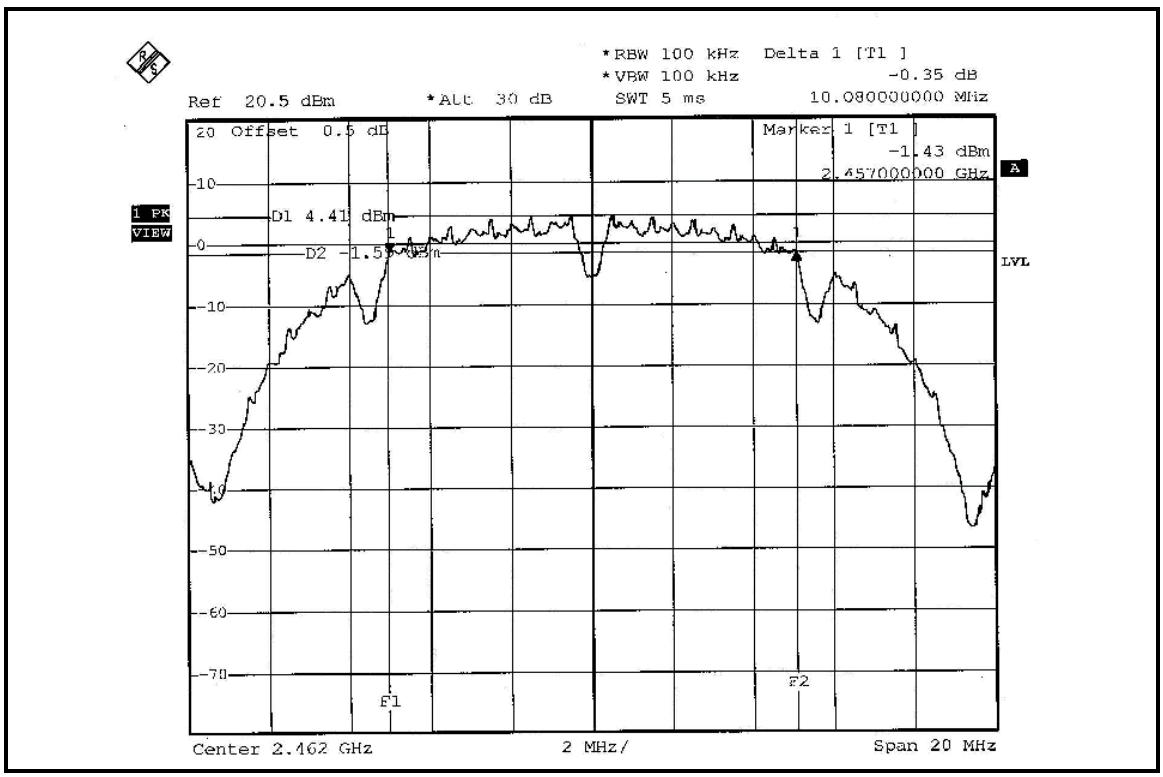
FOR CHAIN 0: CH 1



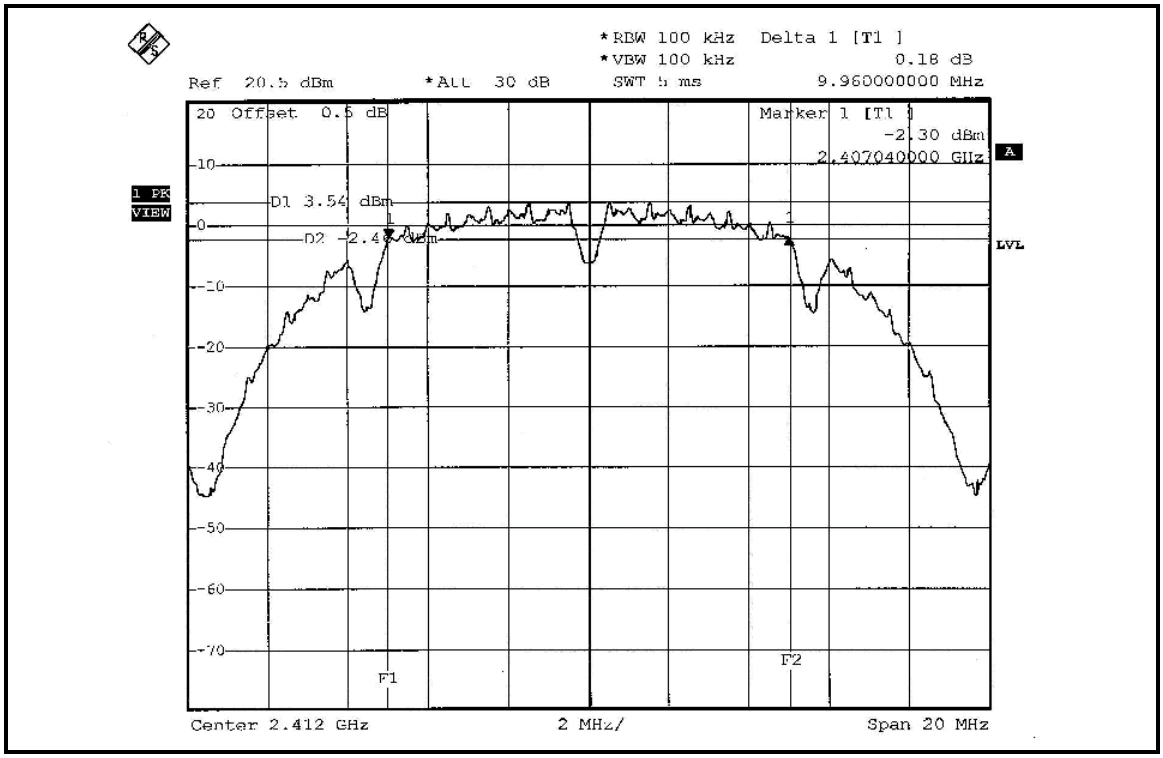
CH 6


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.10 dB
10.040000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-0.67 dBm
2.432000000 GHz
1 PK
VIEW
D1 5.23 dBm
D2 -0.77 dBm
A
LVL
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

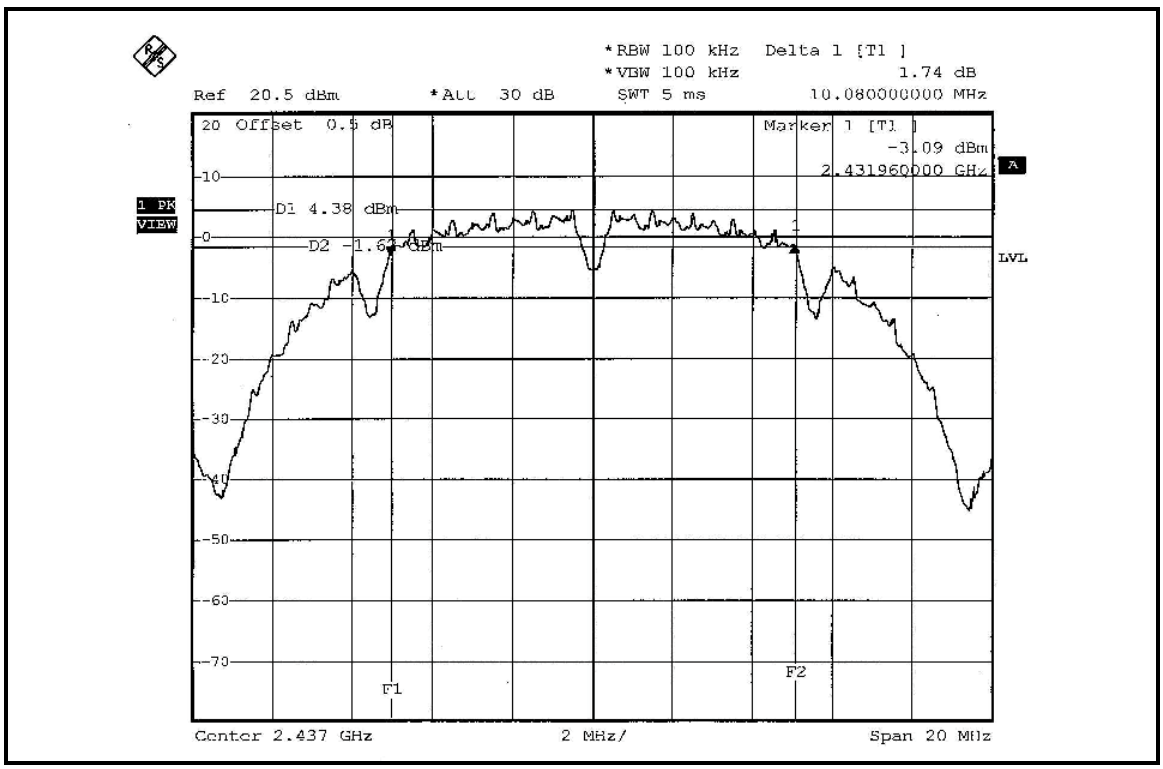
CH 11


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
-0.35 dB
10.080000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-1.43 dBm
2.457000000 GHz
1 PK
VIEW
D1 4.41 dBm
D2 -1.59 dBm
A
LVL
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

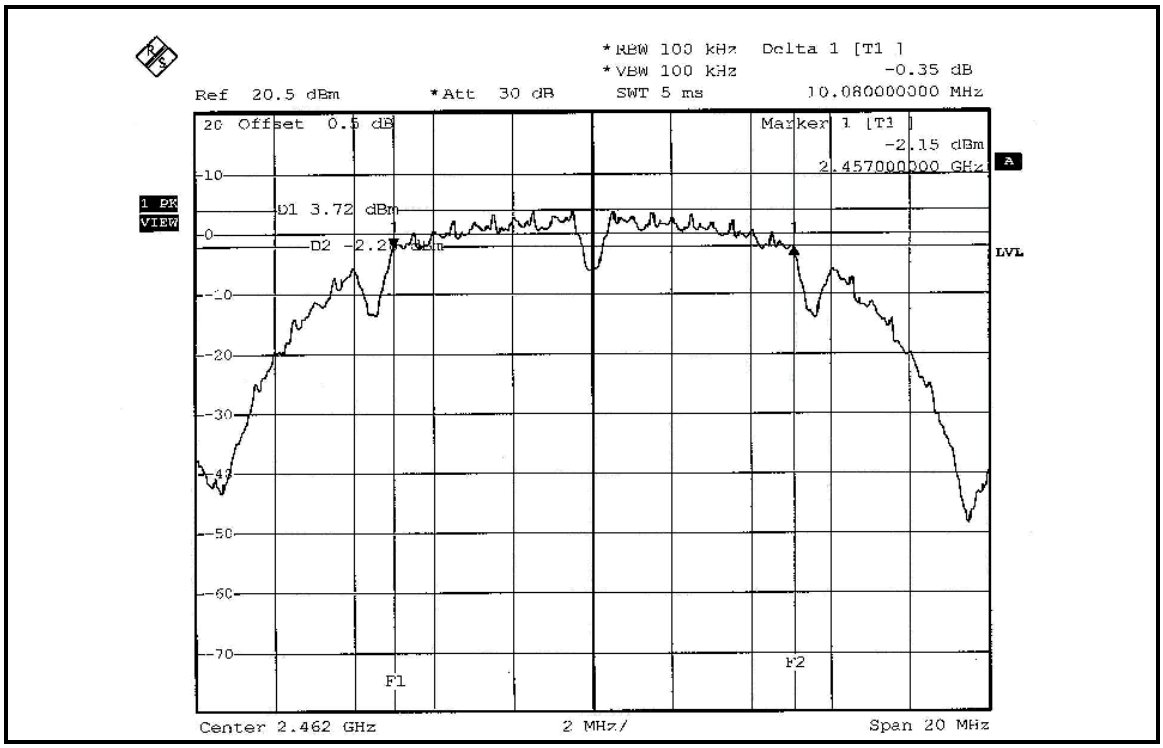
FOR CHAIN 1: CH 1



CH 6



CH 11

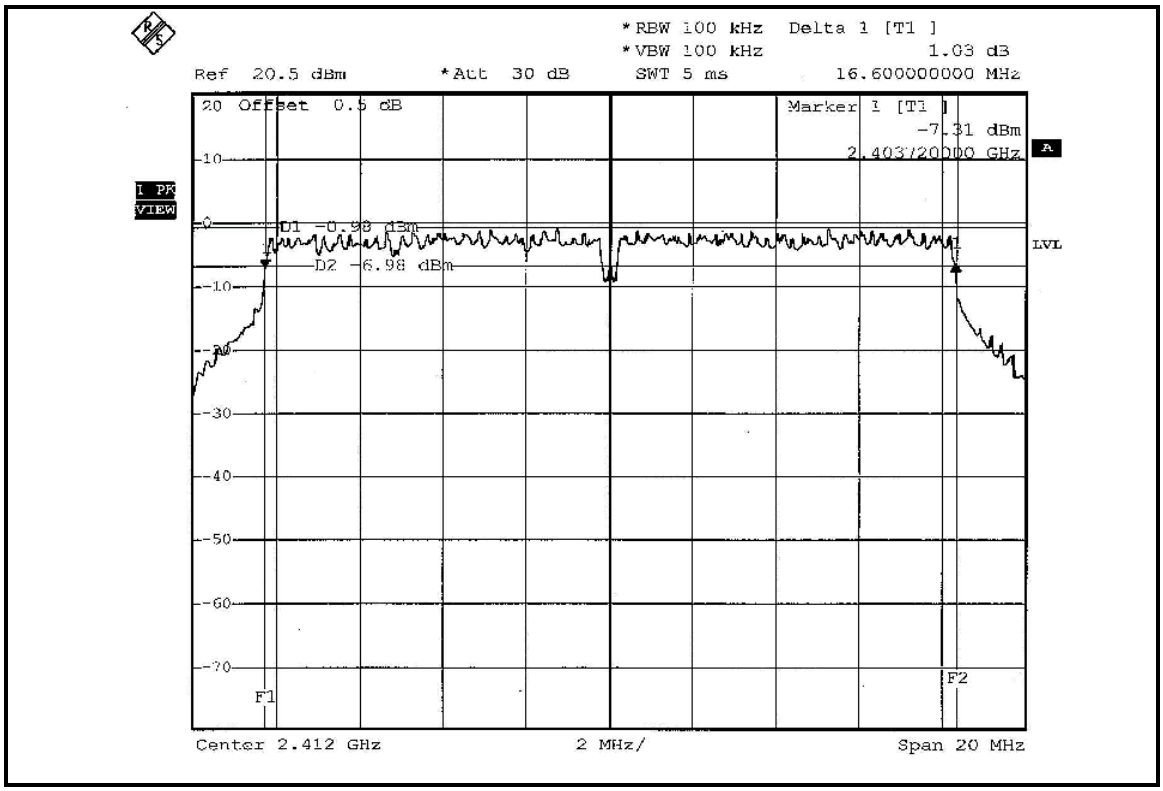

*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
-0.35 dB
10.080000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-2.15 dBm
2.457000000 GHz
1 PK
VIEW
D1 3.72 dBm
D2 -2.28 dBm
LVL
10
0
-10
-20
-30
-40
-50
-60
-70
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

802.11g OFDM MODULATION:

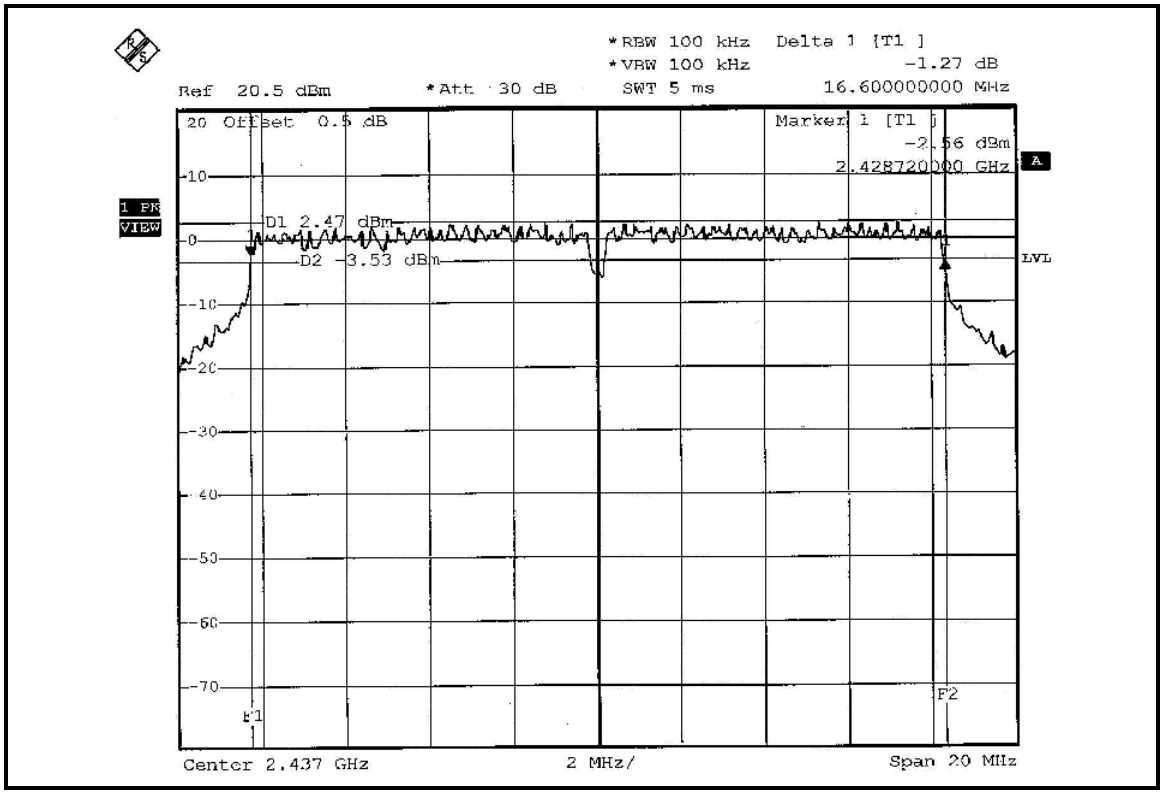
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.6	16.6	0.5	PASS
6	2437	16.6	16.6	0.5	PASS
11	2462	16.6	16.6	0.5	PASS

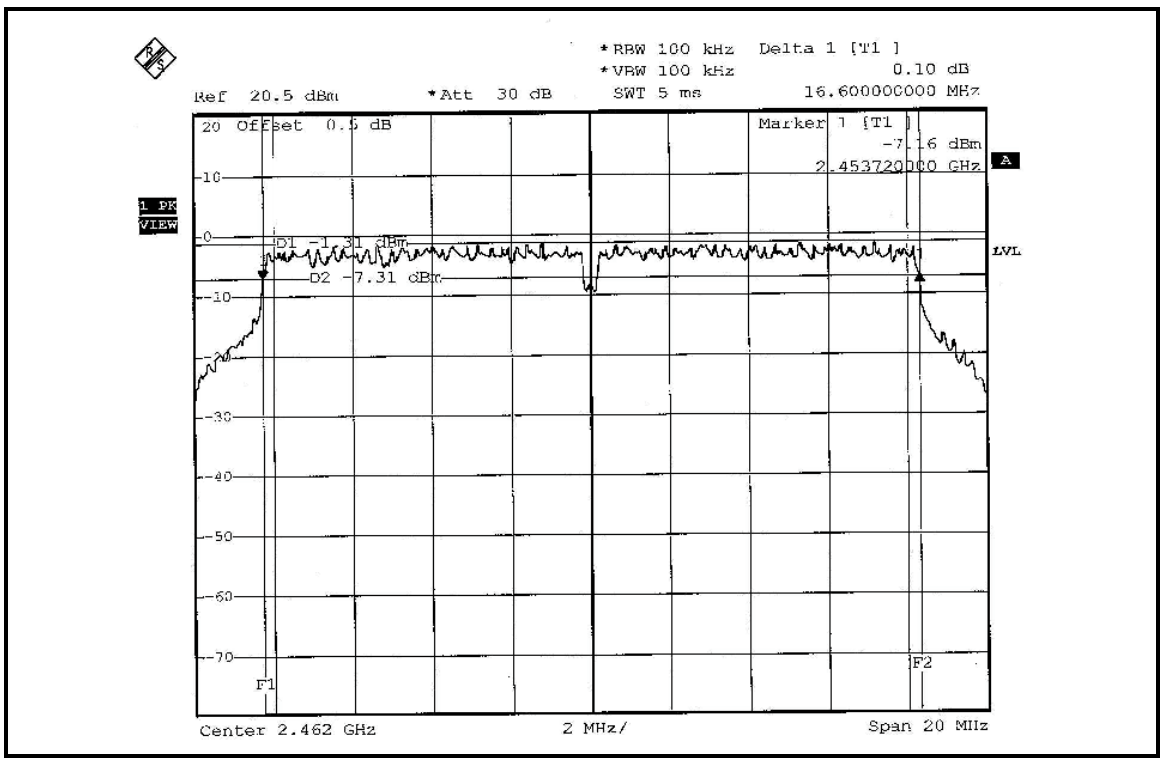
FOR CHAIN 0: CH 1



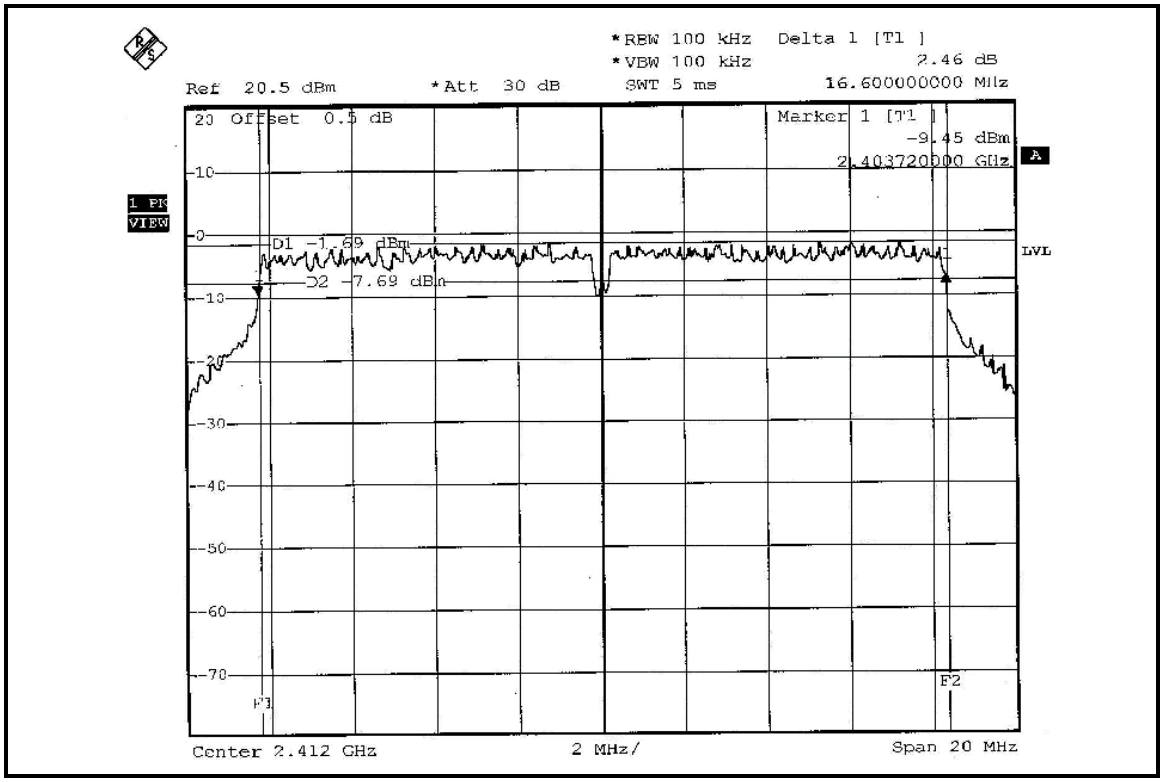
CH 6


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
-1.27 dB
16.600000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-2.56 dBm
2.428720000 GHz
1 PK VIEW
D1 2.47 dBm
D2 -3.53 dBm
LVL
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

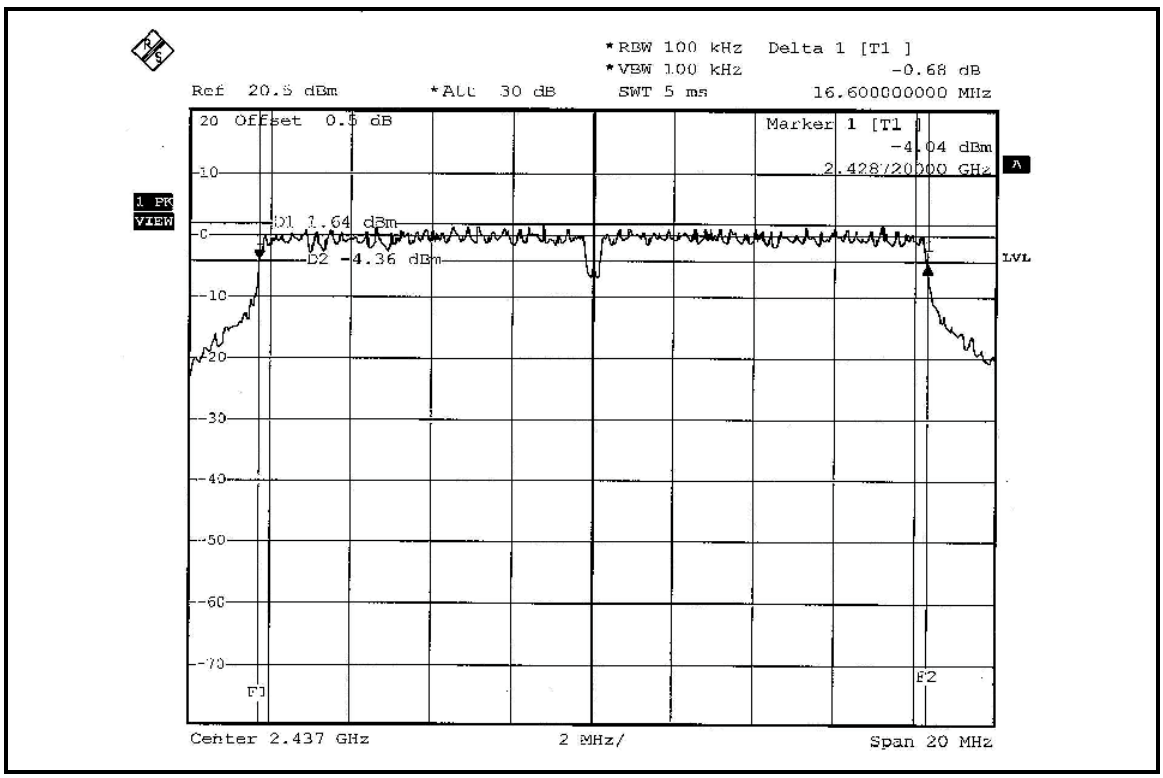
CH 11


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.10 dB
16.600000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-7.16 dBm
2.453720000 GHz
1 PK VIEW
D1 -1.31 dBm
D2 -7.31 dBm
LVL
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

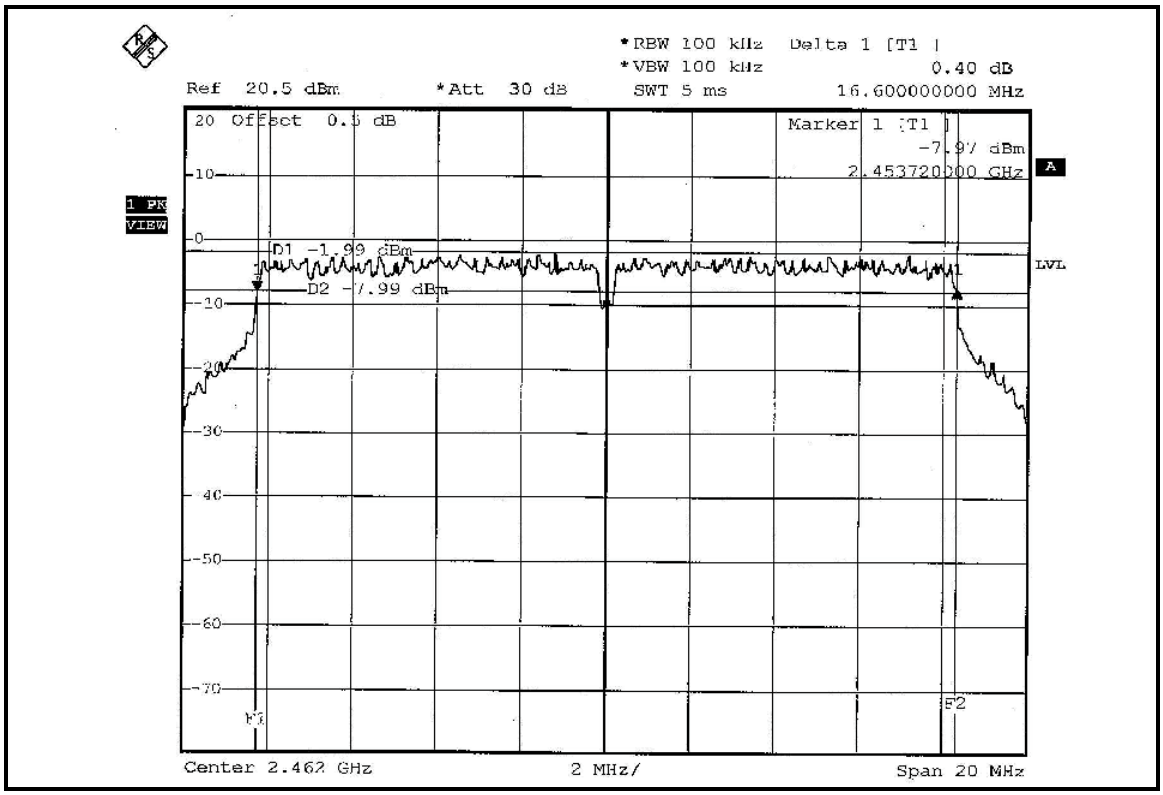
FOR CHAIN 1: CH 1



CH 6



CH 11

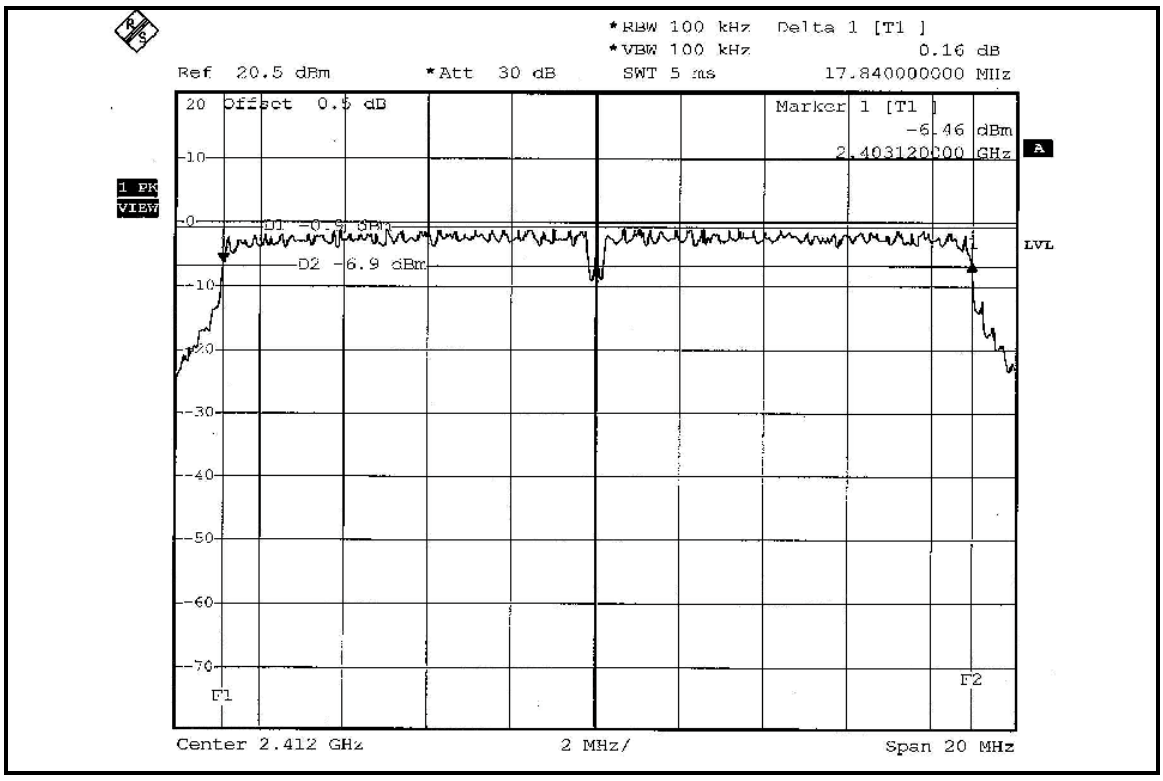

*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.40 dB
16.600000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-7.97 dBm
2.453720000 GHz
1 PK
VIEW
A
LVL
D1 -1.99 dBm
D2 -7.99 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.462 GHz
2 MHz/
Span 20 MHz

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

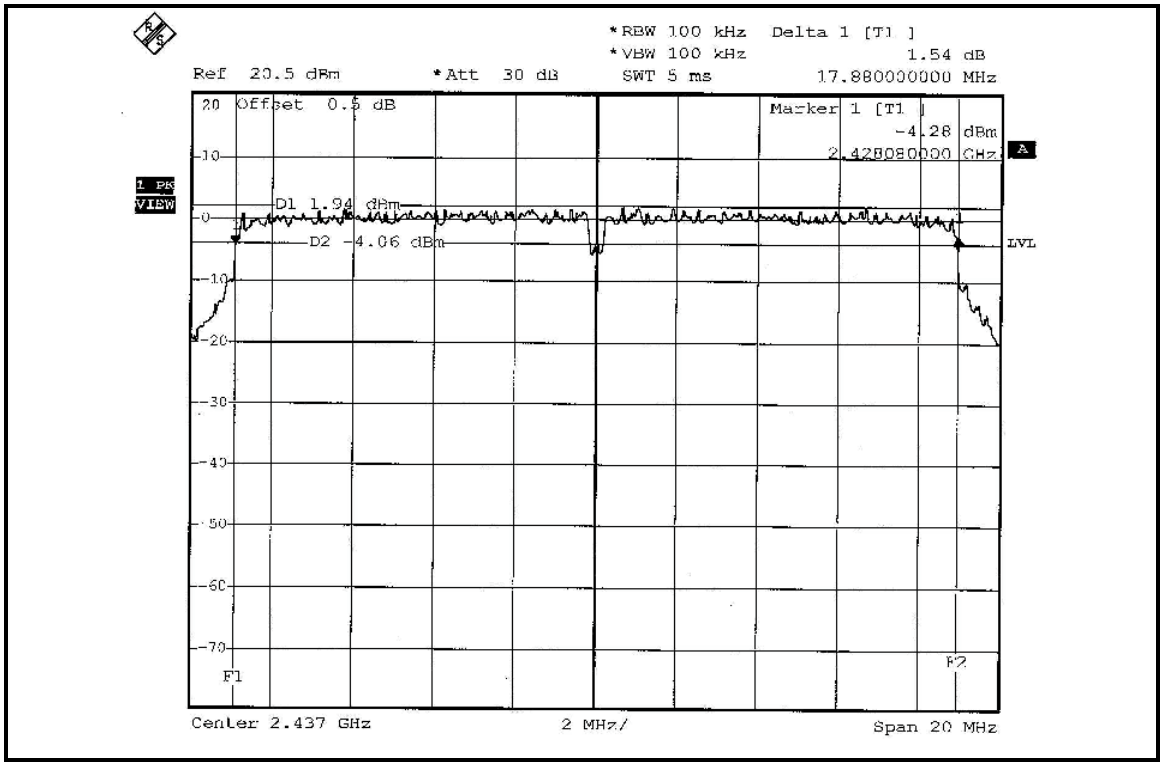
MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.84	17.76	0.5	PASS
6	2437	17.88	17.88	0.5	PASS
11	2462	17.88	17.84	0.5	PASS

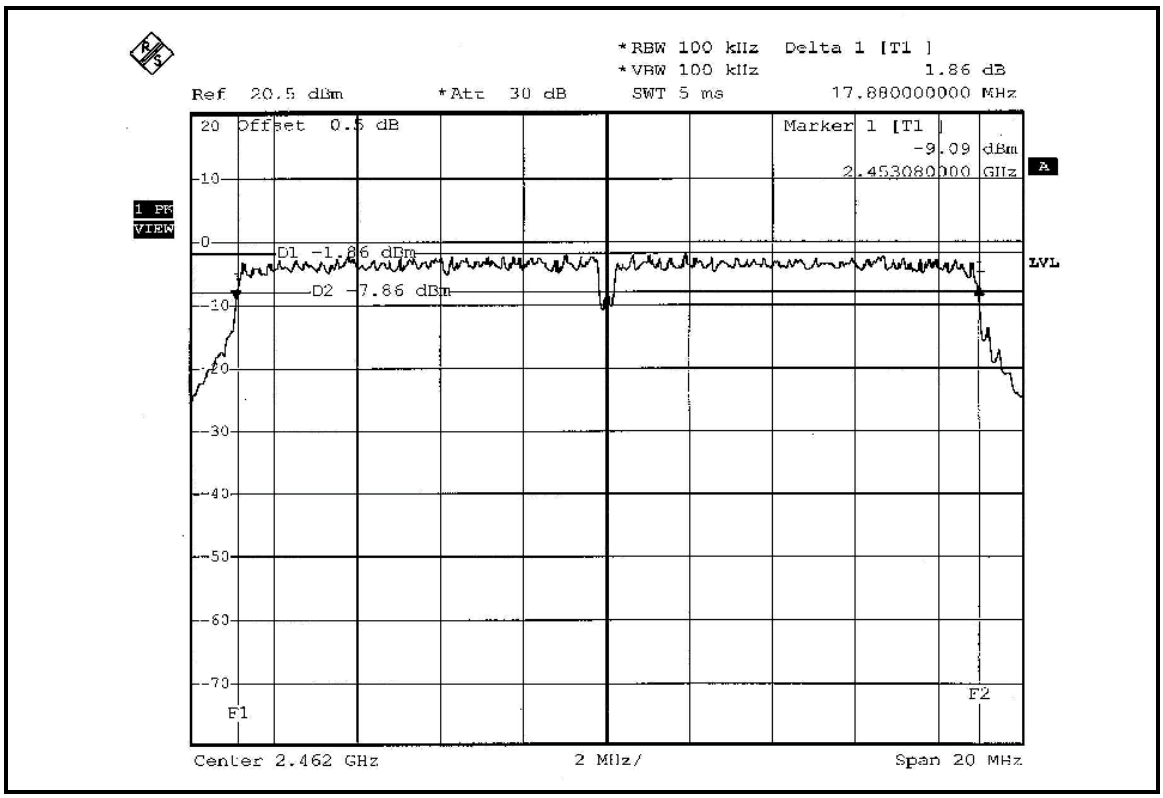
FOR CHAIN 0: CH 1



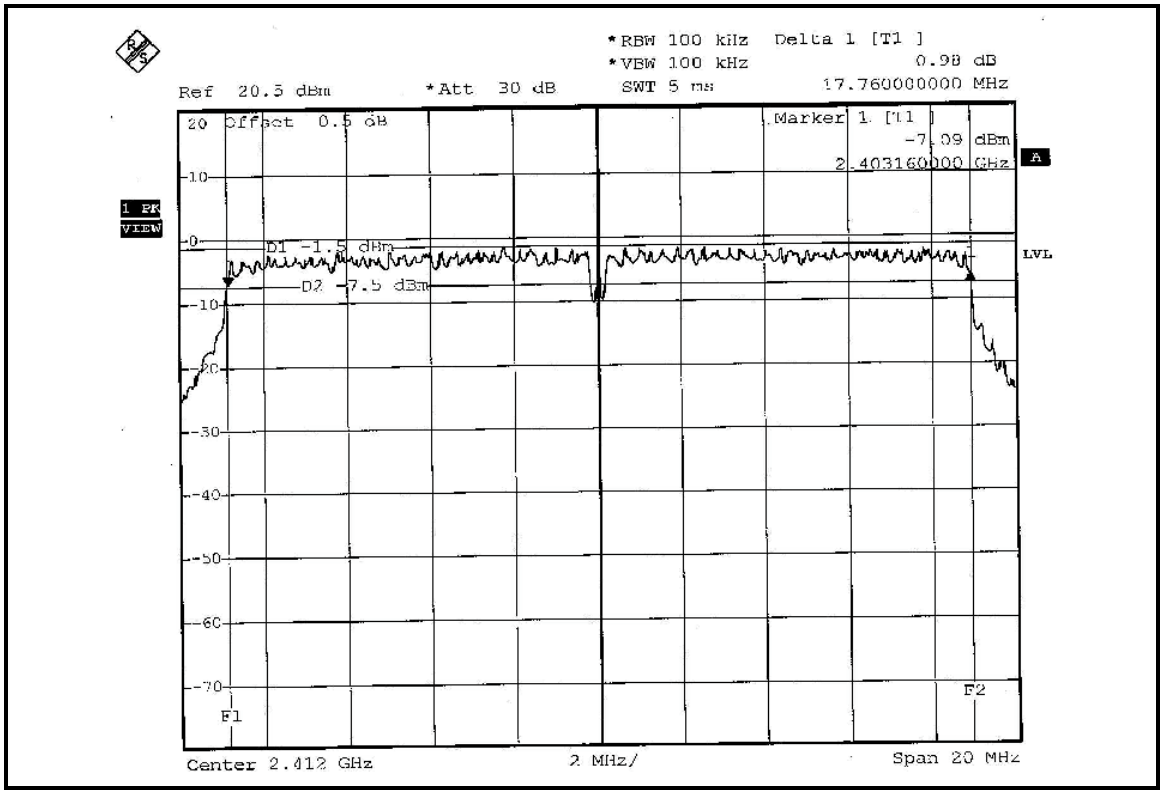
CH 6


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
1.54 dB
17.880000000 MHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
Marker 1 [T1]
-4.28 dBm
2.428080000 GHz
1 PK VIEW
D1 1.94 dBm
D2 -4.06 dBm
LVL
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

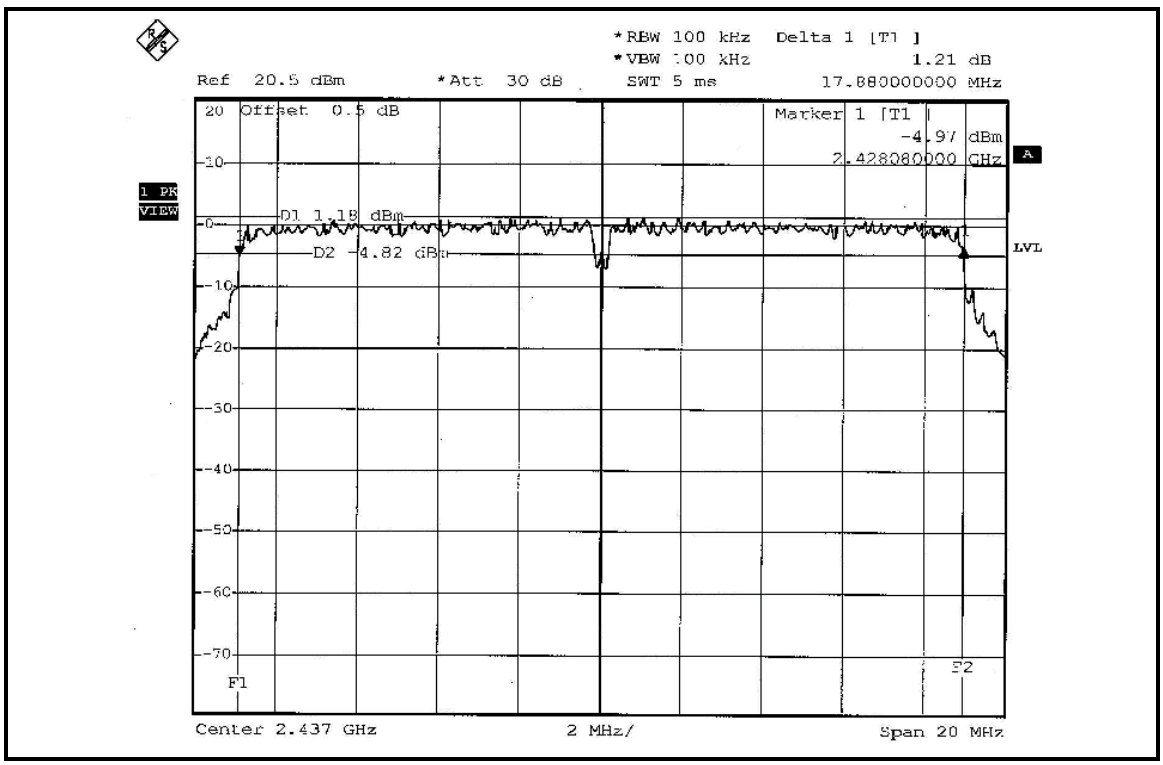
CH 11


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
1.86 dB
17.880000000 MHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
Marker 1 [T1]
-9.09 dBm
2.453080000 GHz
1 PK VIEW
D1 -1.86 dBm
D2 -7.86 dBm
LVL
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

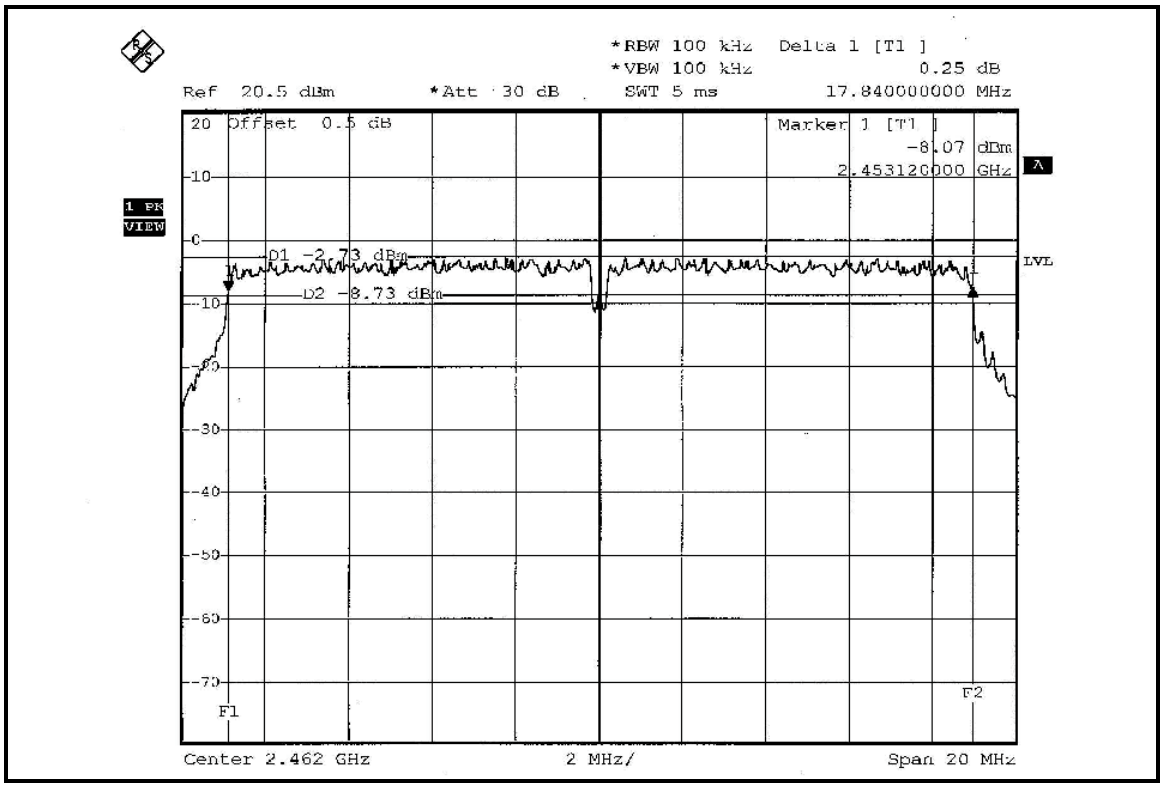
FOR CHAIN 1: CH 1



CH 6



CH 11

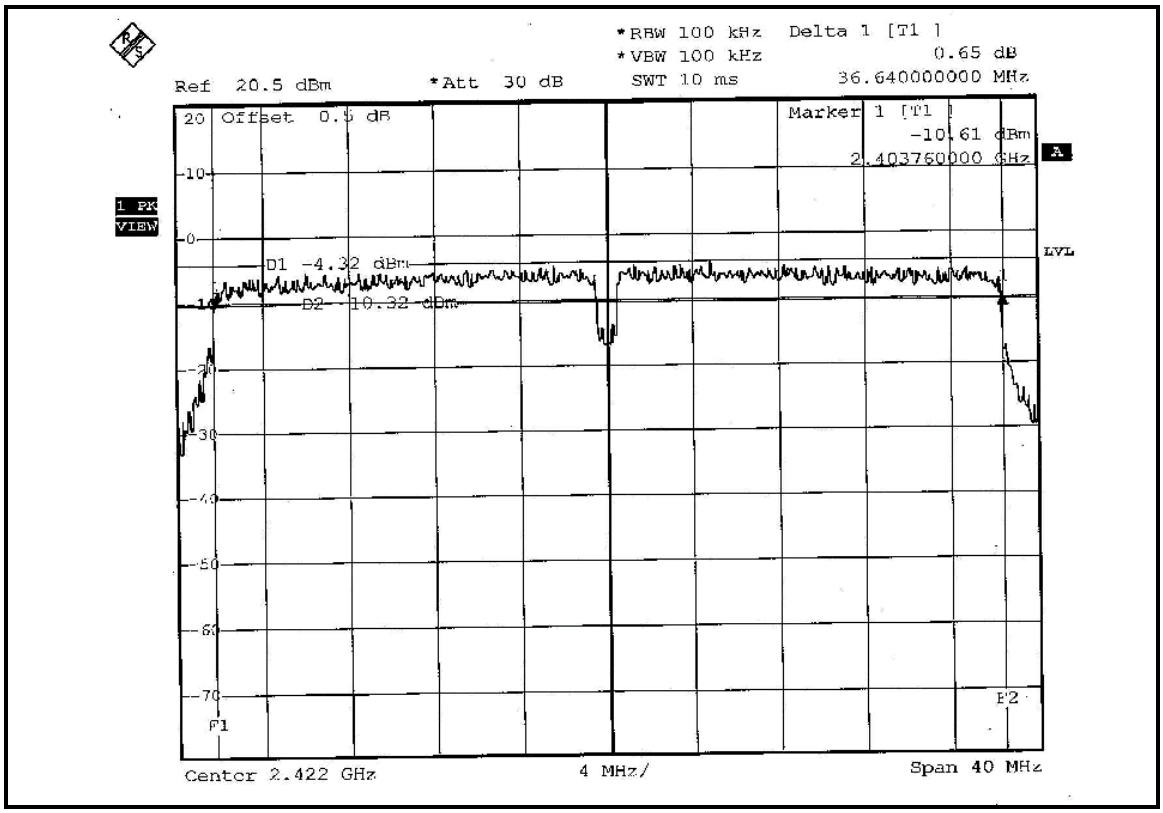

*RBW 100 kHz
*VBW 100 kHz
Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
0.25 dB
17.840000000 MHz
Offset 0.5 dB
Marker 1 [T1]
-8.07 dBm
2.453120000 GHz
1 PK
VIEW
D1 -2.73 dBm
D2 -8.73 dBm
LVL
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

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

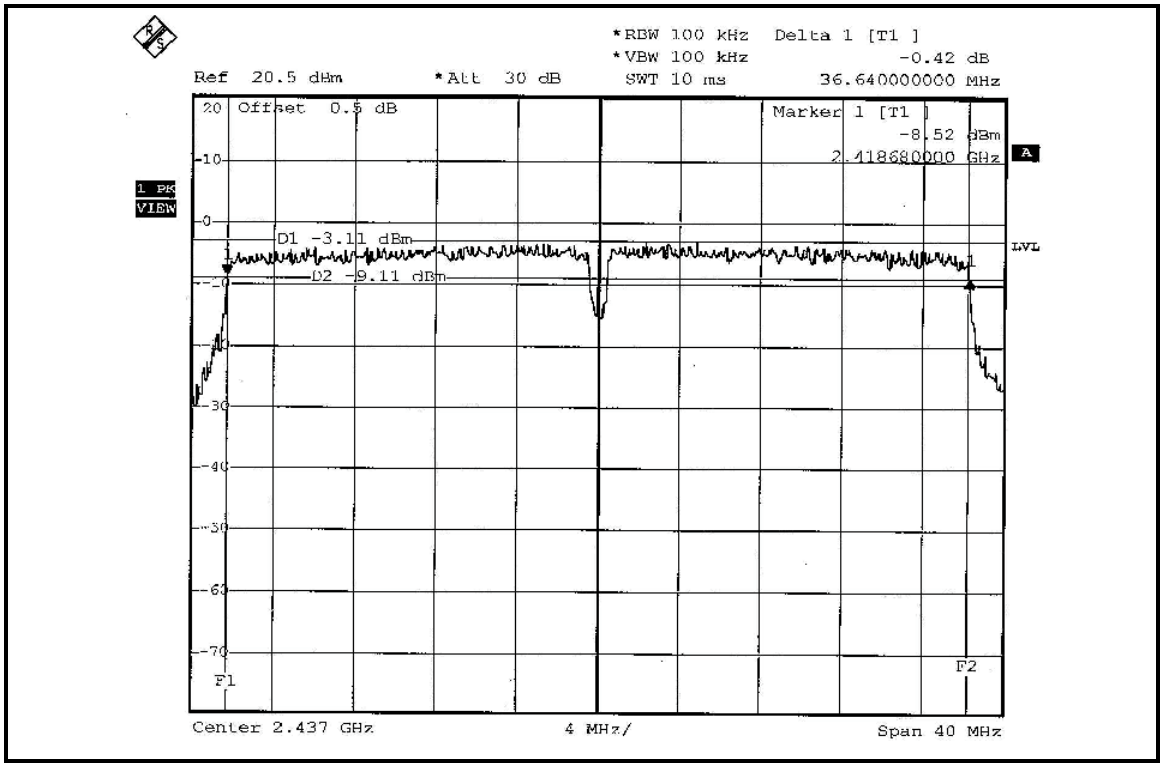
MODULATION TYPE	BPSK	TRANSFER RATE	15Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	36.64	36.72	0.5	PASS
4	2437	36.64	36.64	0.5	PASS
7	2452	36.64	36.64	0.5	PASS

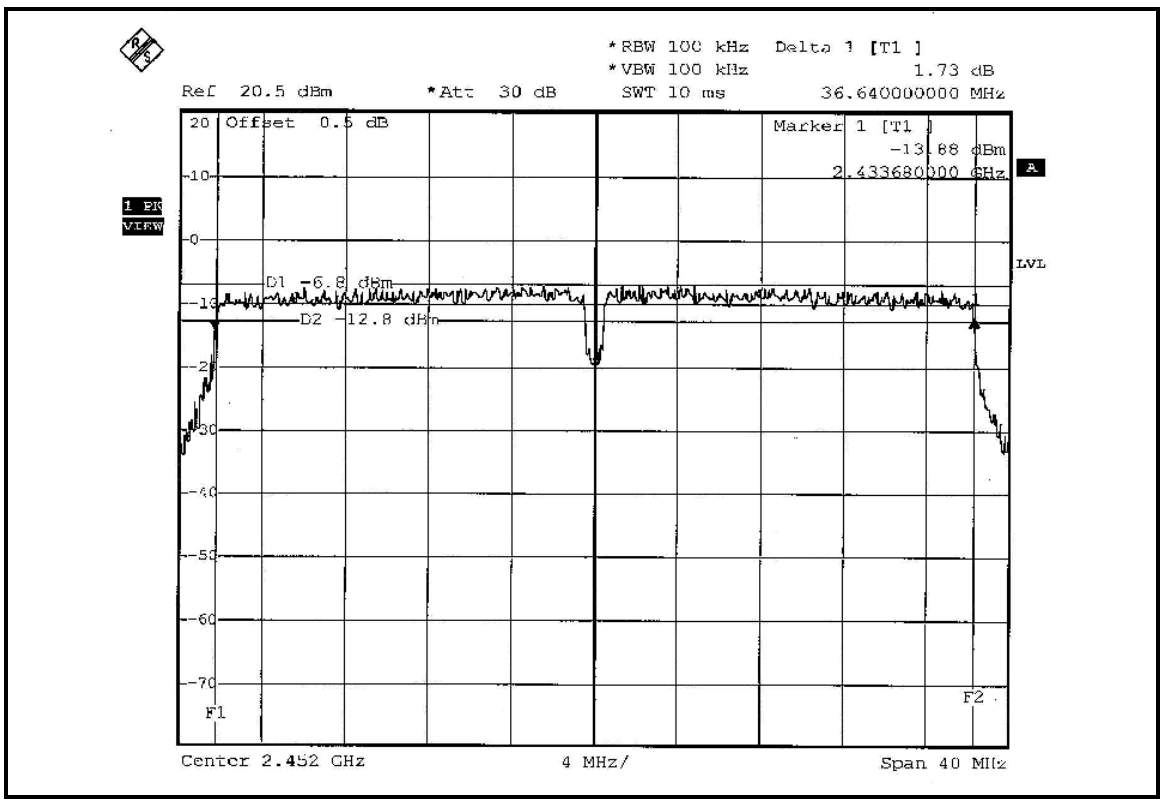
FOR CHAIN 0: CH 1



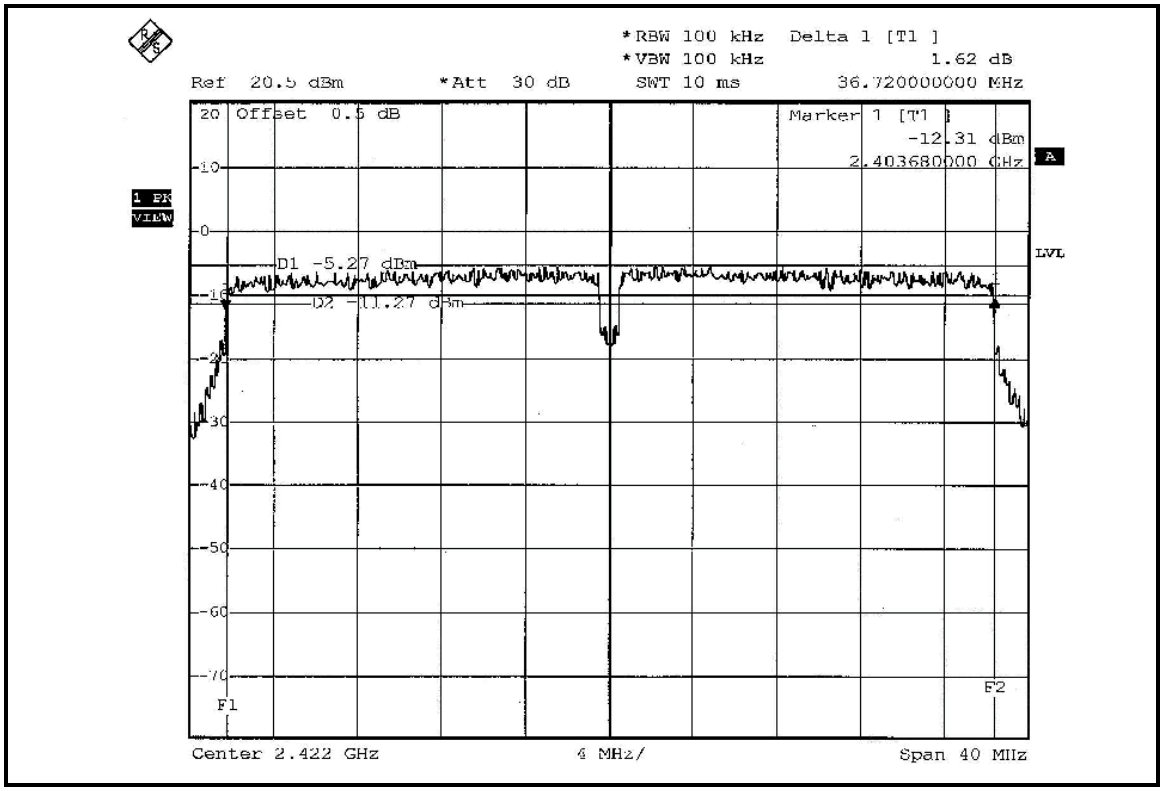
CH 4


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Delta 1 [T1]
-0.42 dB
36.640000000 MHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
Marker 1 [T1]
-8.52 dBm
2.418680000 GHz
D1 -3.11 dBm
D2 -9.11 dBm
F1
F2
Center 2.437 GHz
4 MHz/
Span 40 MHz

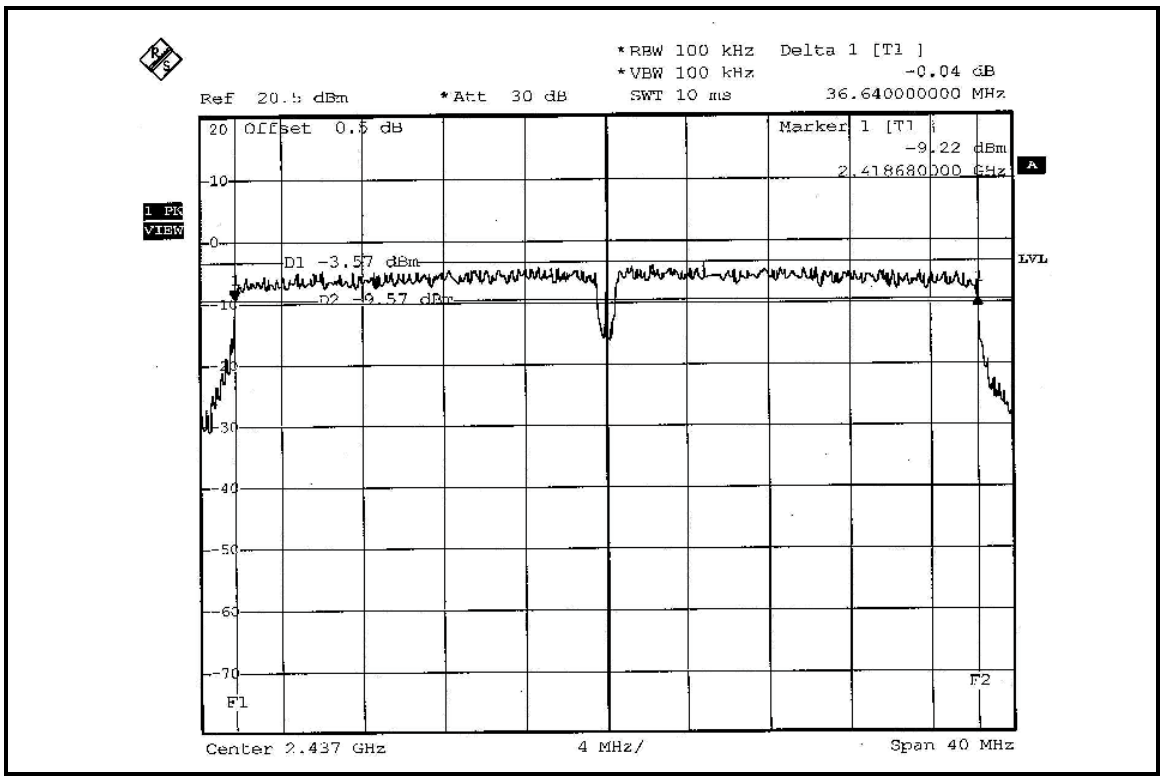
CH 7


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Delta 1 [T1]
1.73 dB
36.640000000 MHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
Marker 1 [T1]
-13.88 dBm
2.433680000 GHz
D1 -6.8 dBm
D2 -12.8 dBm
F1
F2
Center 2.452 GHz
4 MHz/
Span 40 MHz

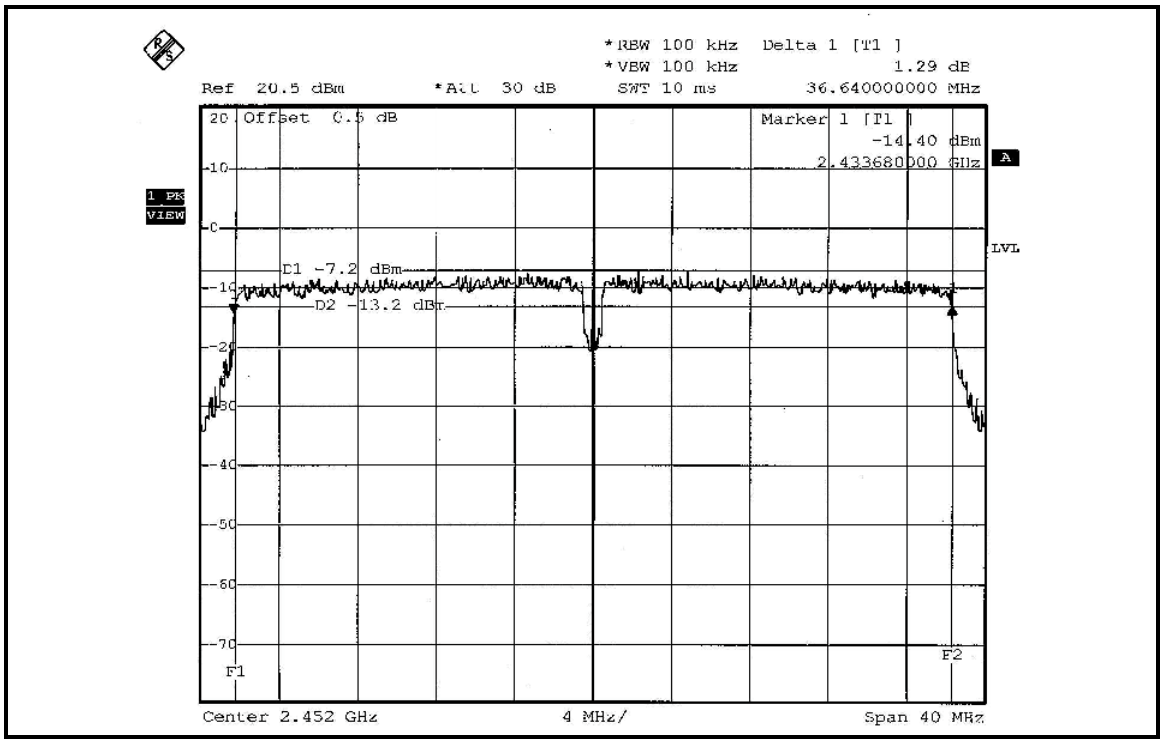
FOR CHAIN 1: CH 1



CH 4



CH 7

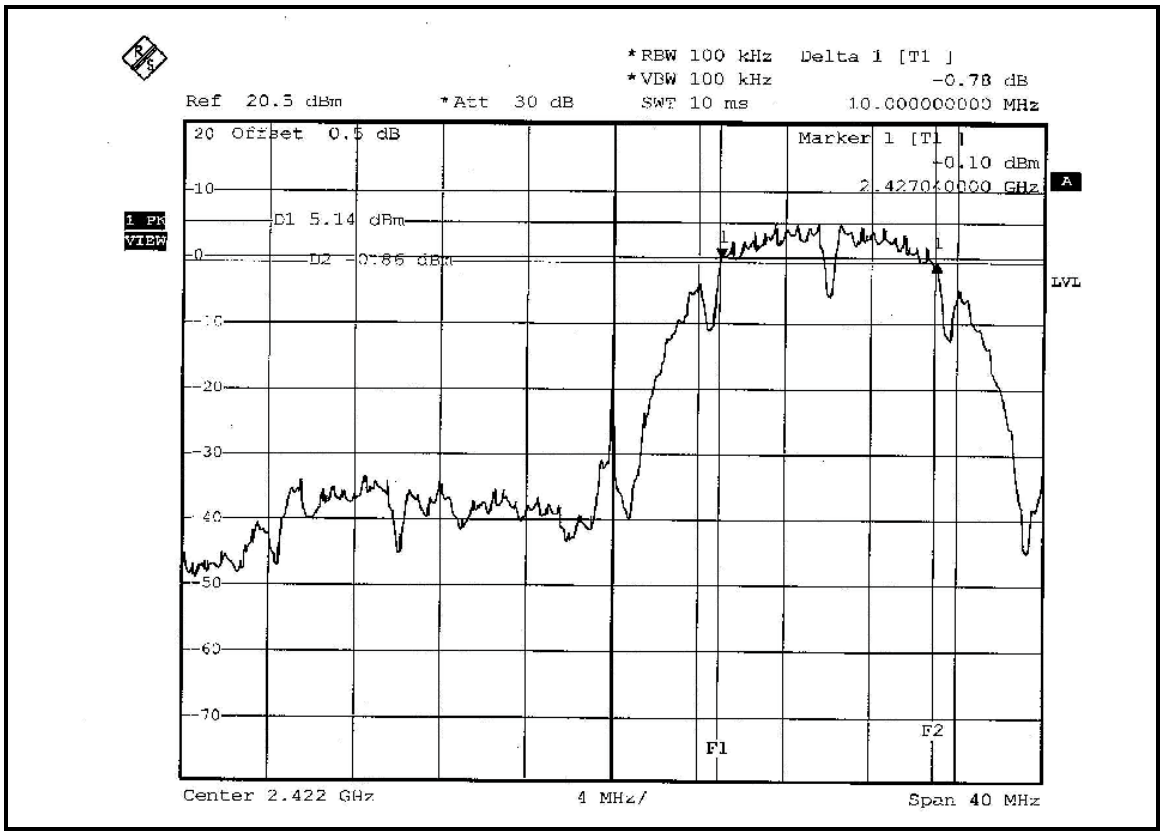

*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Delta 1 [T1]
1.29 dB
36.640000000 MHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
Marker 1 [T1]
-14.40 dBm
2.433680000 GHz
1 PK
VIEW
A
LVL
D1 -7.2 dBm
D2 -13.2 dBm
F1
F2
Center 2.452 GHz
4 MHz/
Span 40 MHz

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

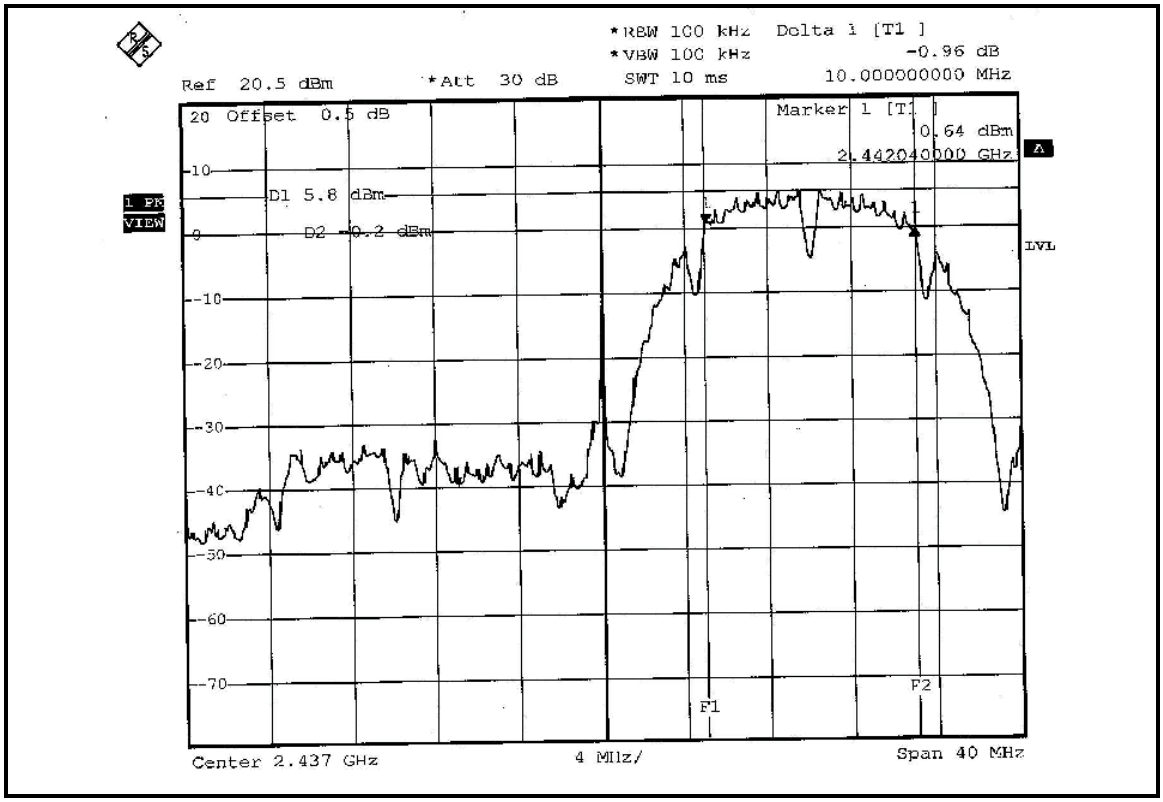
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	10.00	10.08	0.5	PASS
4	2437	10.00	10.08	0.5	PASS
7	2452	10.08	9.92	0.5	PASS

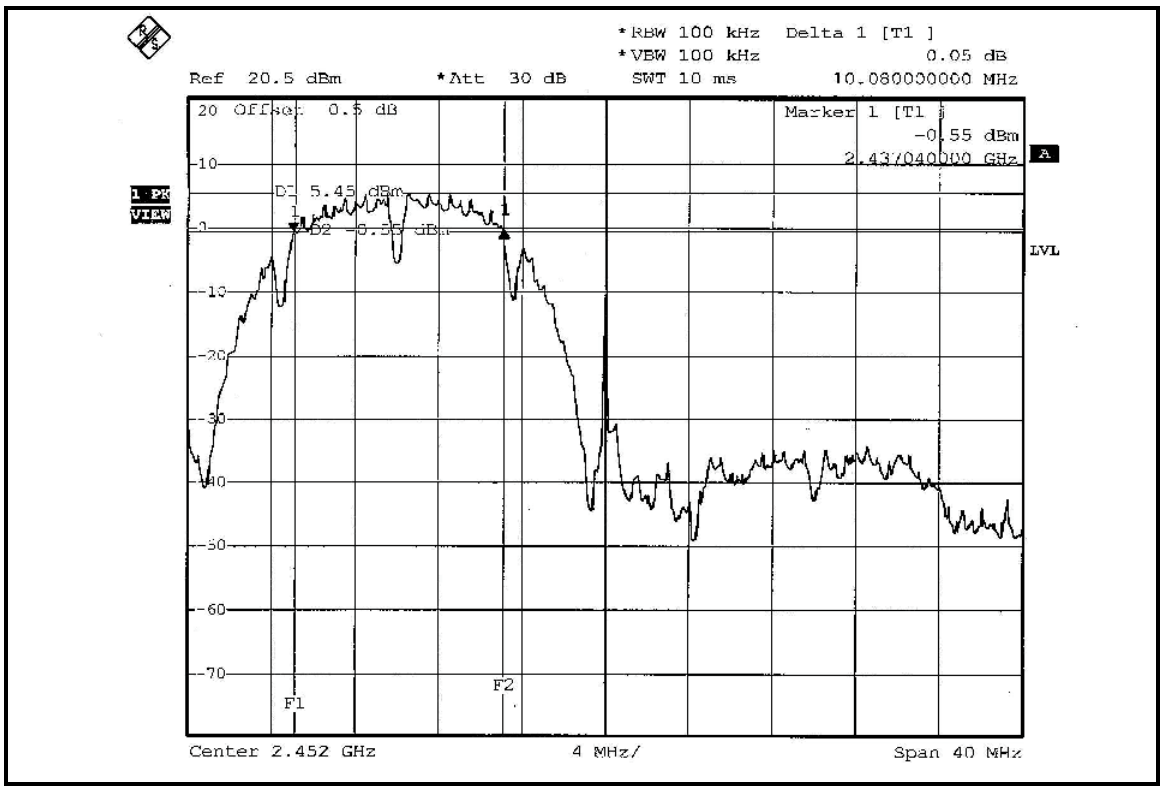
FOR CHAIN 0: CH 1



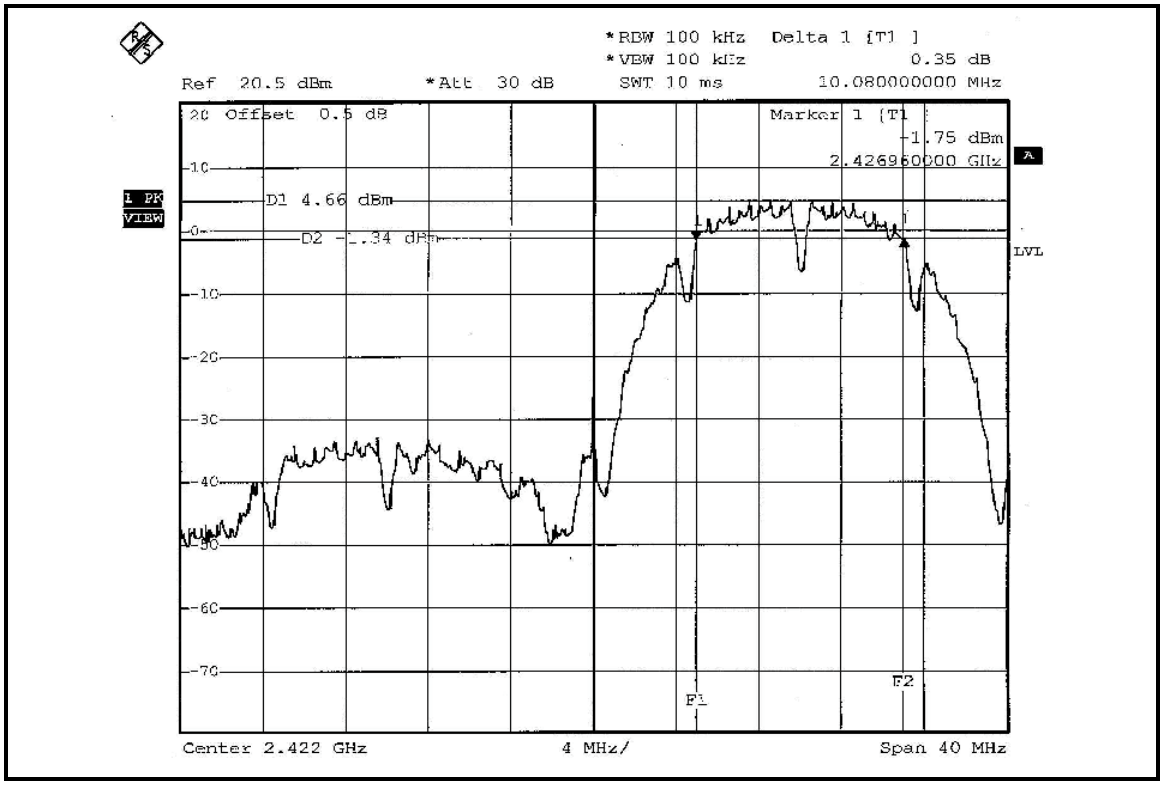
CH 4


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Delta 1 [T1]
-0.96 dB
10.000000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
0.64 dBm
2.442040000 GHz
D1 5.8 dBm
D2 -0.2 dBm
1 PK VIEW
A
LVL
F1
F2
Center 2.437 GHz
4 MHz/
Span 40 MHz

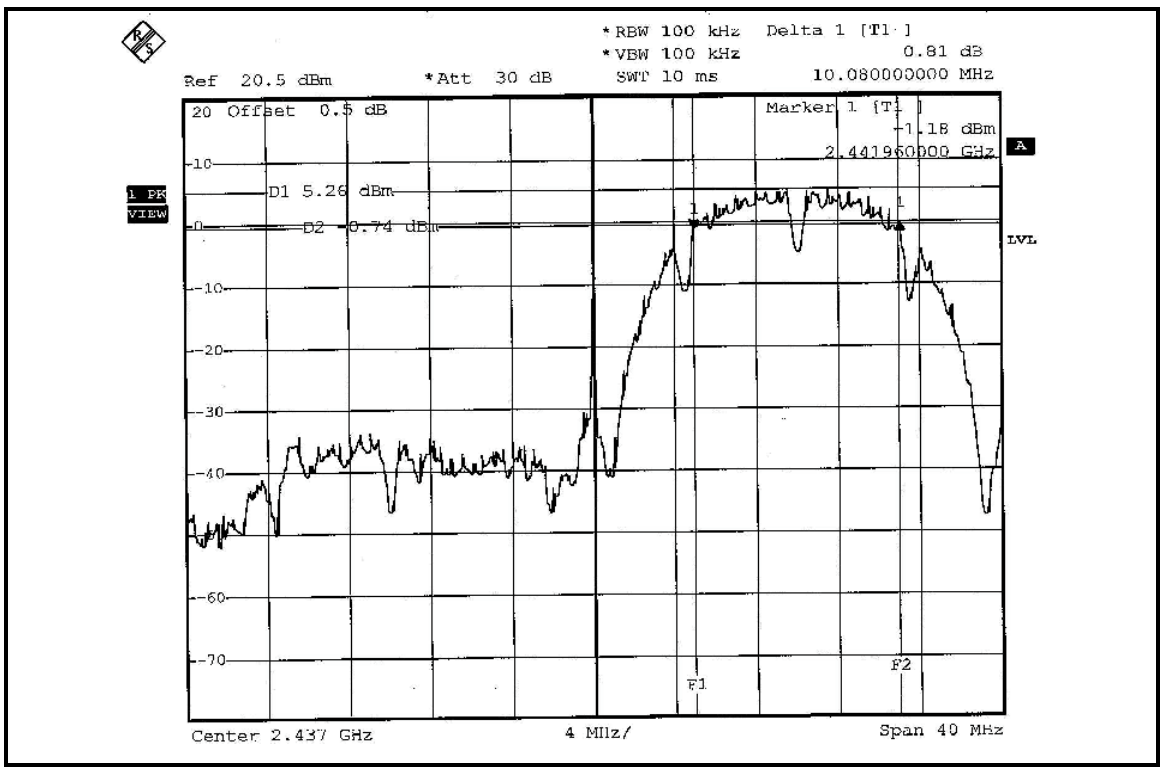
CH 7


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Delta 1 [T1]
0.05 dB
10.080000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-0.55 dBm
2.437040000 GHz
D1 5.45 dBm
D2 -0.55 dBm
1 PK VIEW
A
LVL
F1
F2
Center 2.452 GHz
4 MHz/
Span 40 MHz

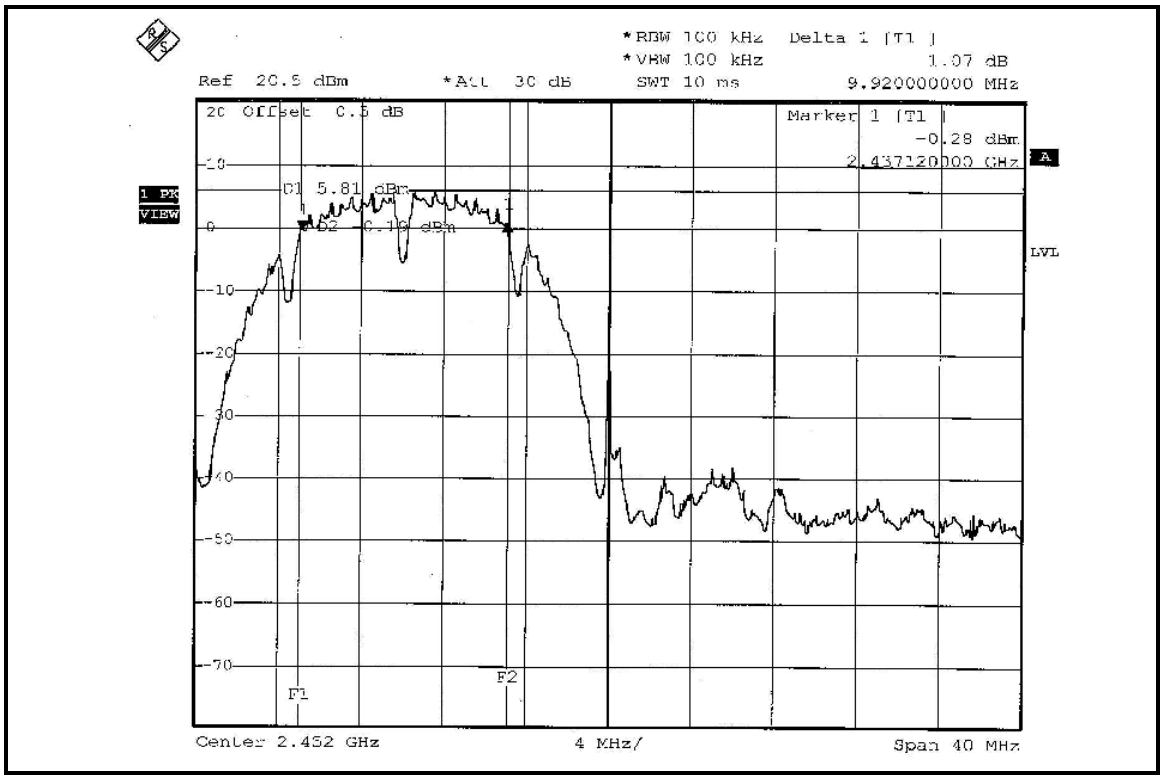
FOR CHAIN 1: CH 1



CH 4



CH 7


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Delta 1 [T1]
1.07 dB
9.920000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-0.28 dBm
2.437120000 GHz
1 PK VIEW
D1 5.81 dBm
D2 -4.19 dBm
LVL
F1
F2
Center 2.452 GHz
4 MHz/
Span 40 MHz

4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 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	66.374	66.988	18.22	18.26	133.362	21.250	30	PASS
6	2437	84.140	84.528	19.25	19.27	168.668	22.270	30	PASS
11	2462	64.714	67.298	18.11	18.28	132.012	21.206	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	52.602	52.966	17.21	17.24	105.568	20.235	30	PASS
6	2437	105.439	105.925	20.23	20.25	211.364	23.250	30	PASS
11	2462	47.206	47.424	16.74	16.76	94.63	19.760	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	53.211	53.580	17.26	17.29	106.791	20.285	30	PASS
6	2437	105.925	106.660	20.25	20.28	**212.585**	23.275	30	PASS
11	2462	47.315	47.643	16.75	16.78	94.958	19.775	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	37.931	37.670	15.79	15.76	75.601	18.785	30	PASS
4	2437	47.863	47.315	16.80	16.75	95.178	19.785	30	PASS
7	2452	23.659	23.605	14.24	14.23	47.264	16.745	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	66.527	66.988	18.23	18.26	133.515	21.255	30	PASS
4	2437	84.528	84.723	19.27	19.28	169.251	22.285	30	PASS
7	2452	65.464	67.298	18.16	18.28	132.762	21.231	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

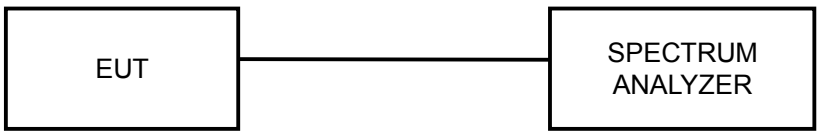
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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.

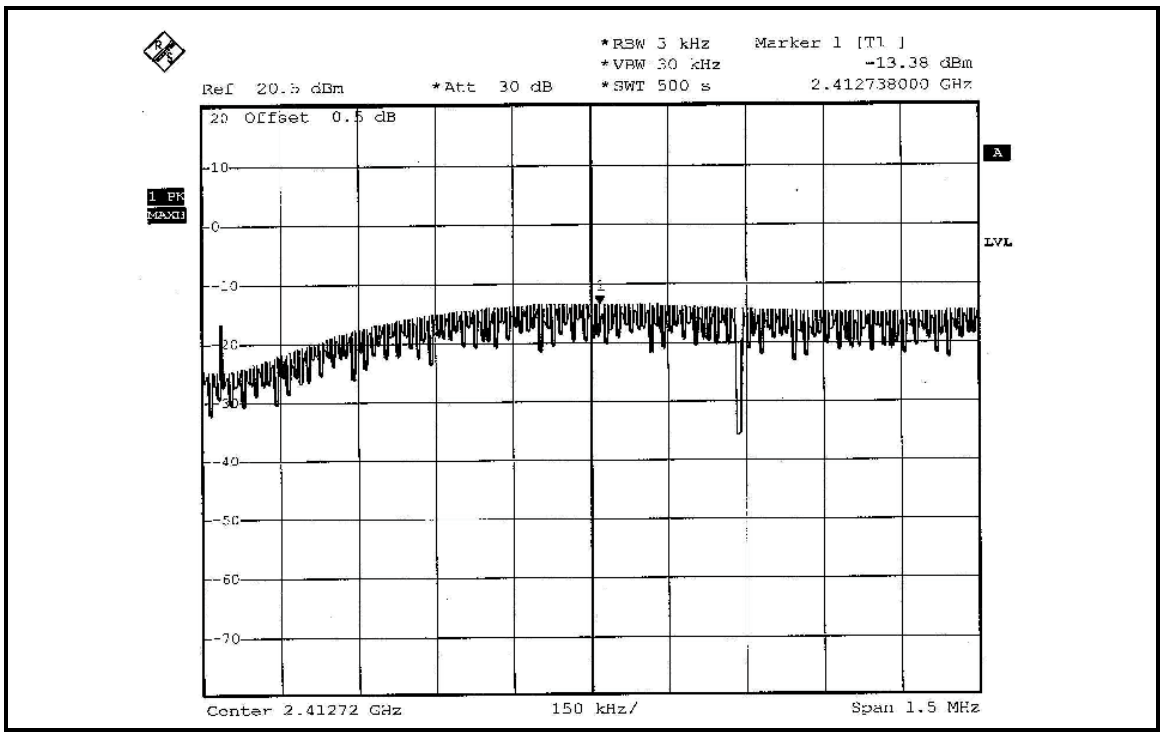
4.5.7 TEST RESULTS

802.11b DSSS MODULATION:

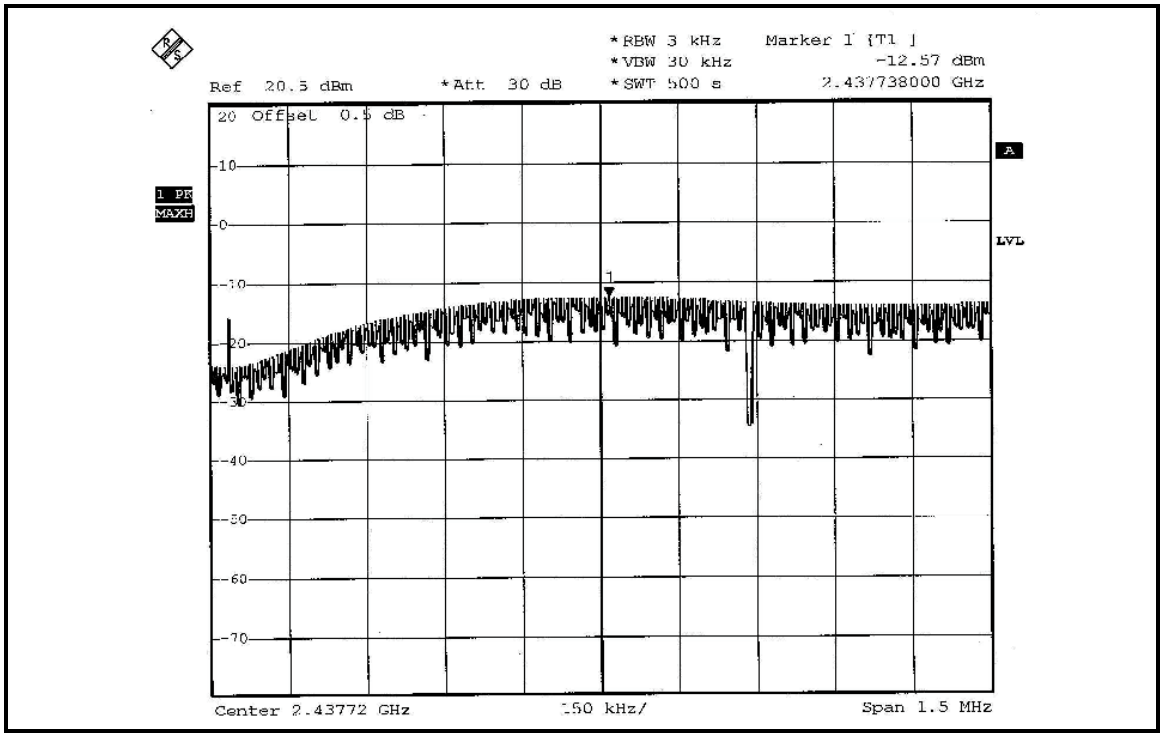
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

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	0.046	0.040	-13.38	-13.99	0.086	-10.66	8	PASS
6	2437	0.055	0.048	-12.57	-13.16	0.103	-9.87	8	PASS
11	2462	0.047	0.041	-13.30	-13.92	0.088	-10.56	8	PASS

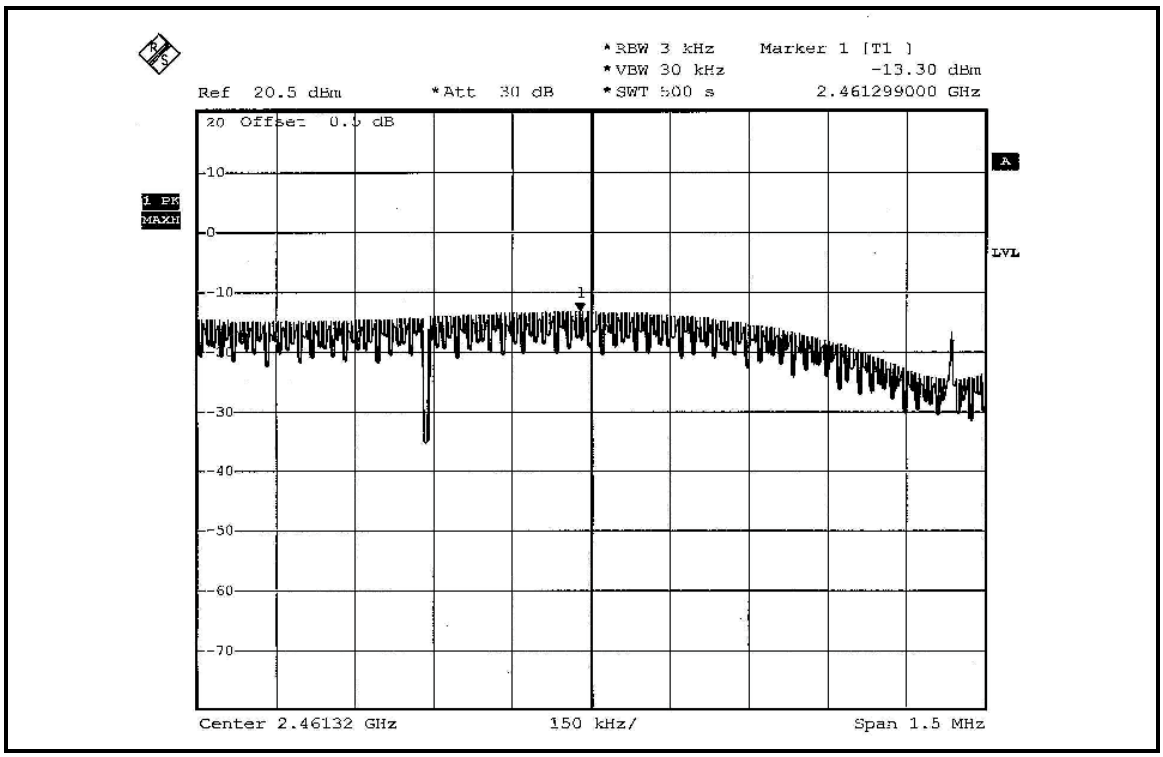
FOR CHAIN 0: CH 1



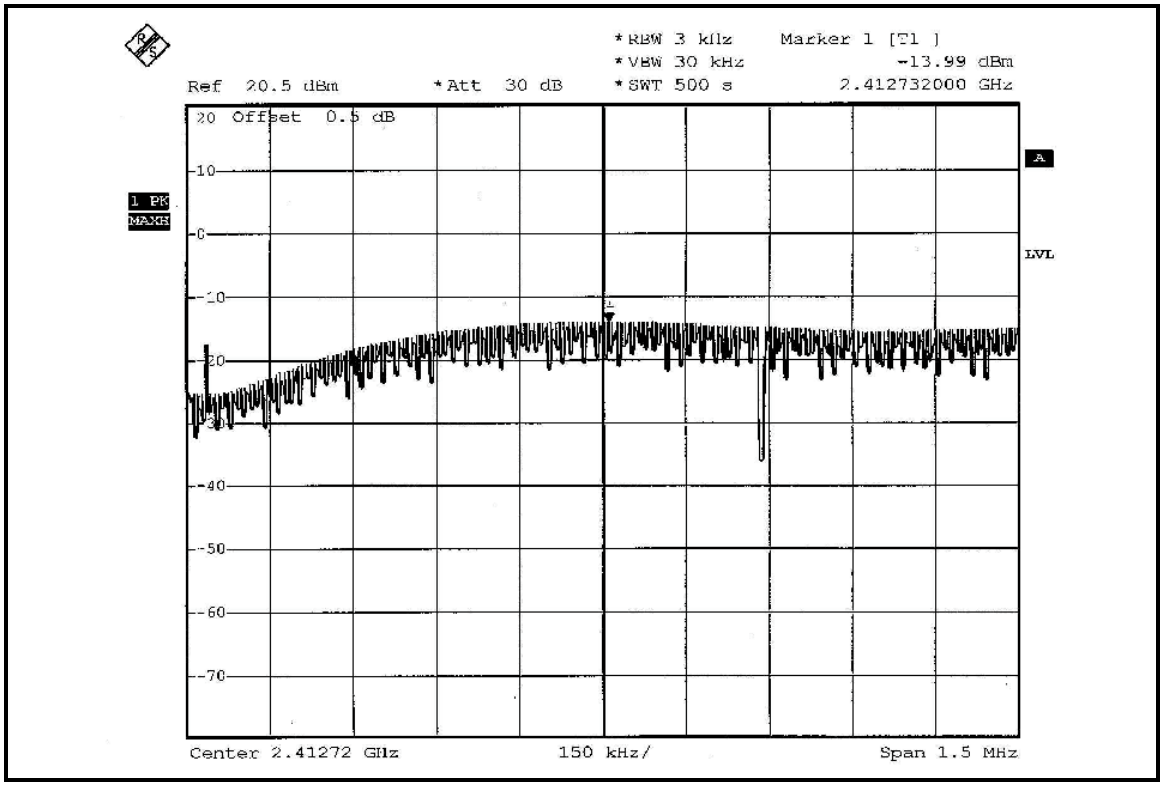
CH 6


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-12.57 dBm
2.437738000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
Center 2.43772 GHz
150 kHz/
Span 1.5 MHz

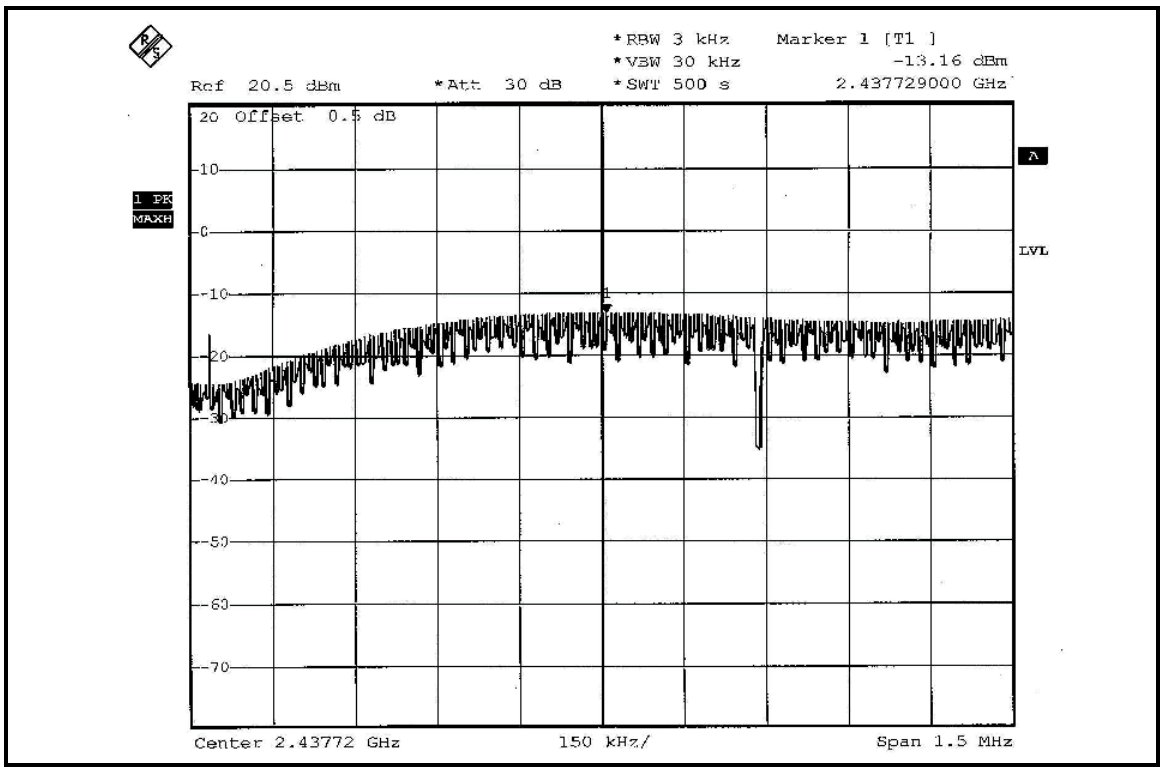
CH 11


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-13.30 dBm
2.461299000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
Center 2.46132 GHz
150 kHz/
Span 1.5 MHz

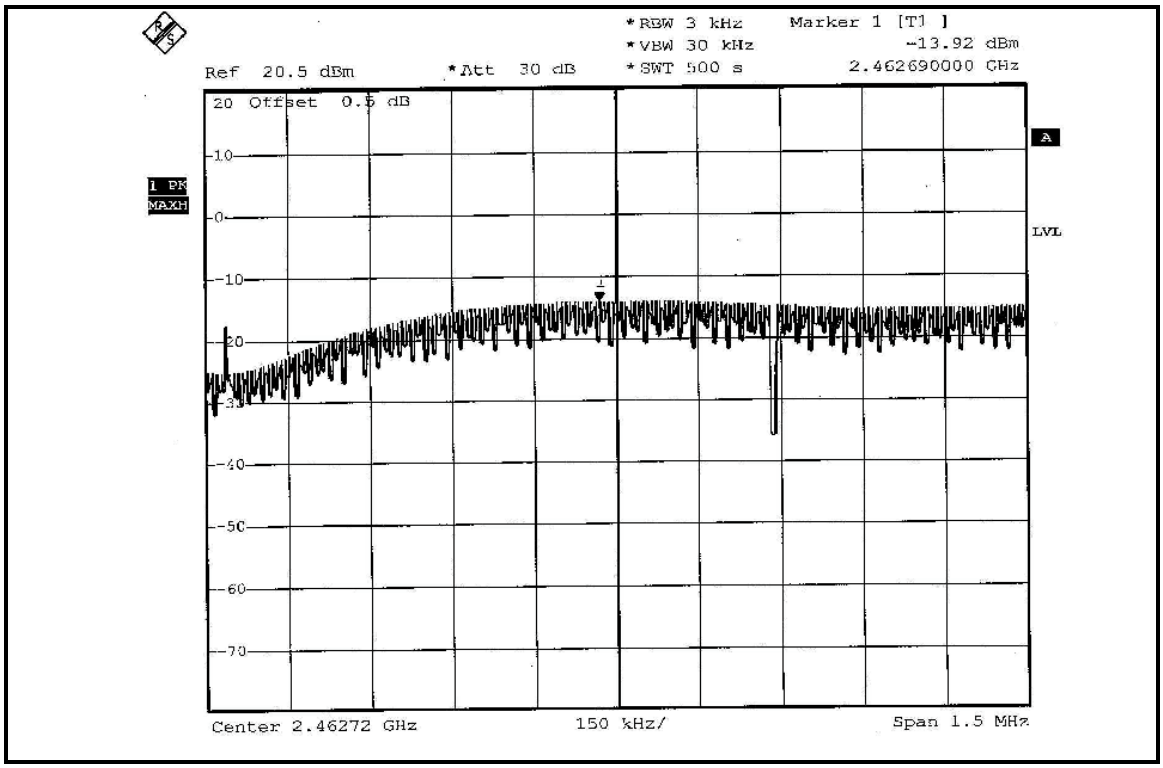
FOR CHAIN 1: CH 1



CH 6



CH 11

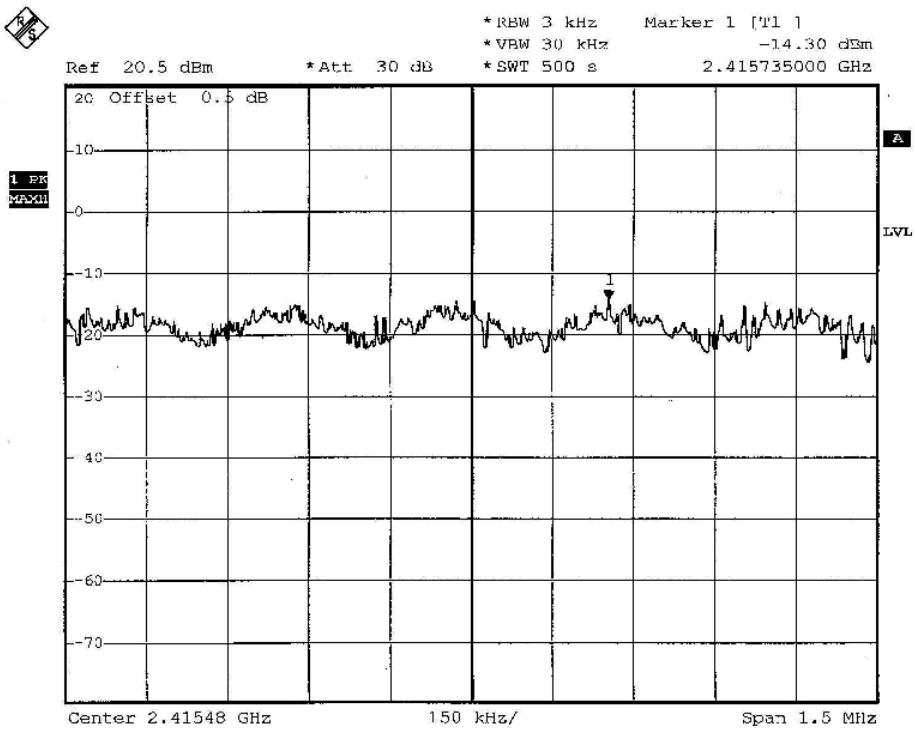

*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-13.92 dBm
2.462690000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.46272 GHz
150 kHz/
Span 1.5 MHz

802.11g OFDM MODULATION:

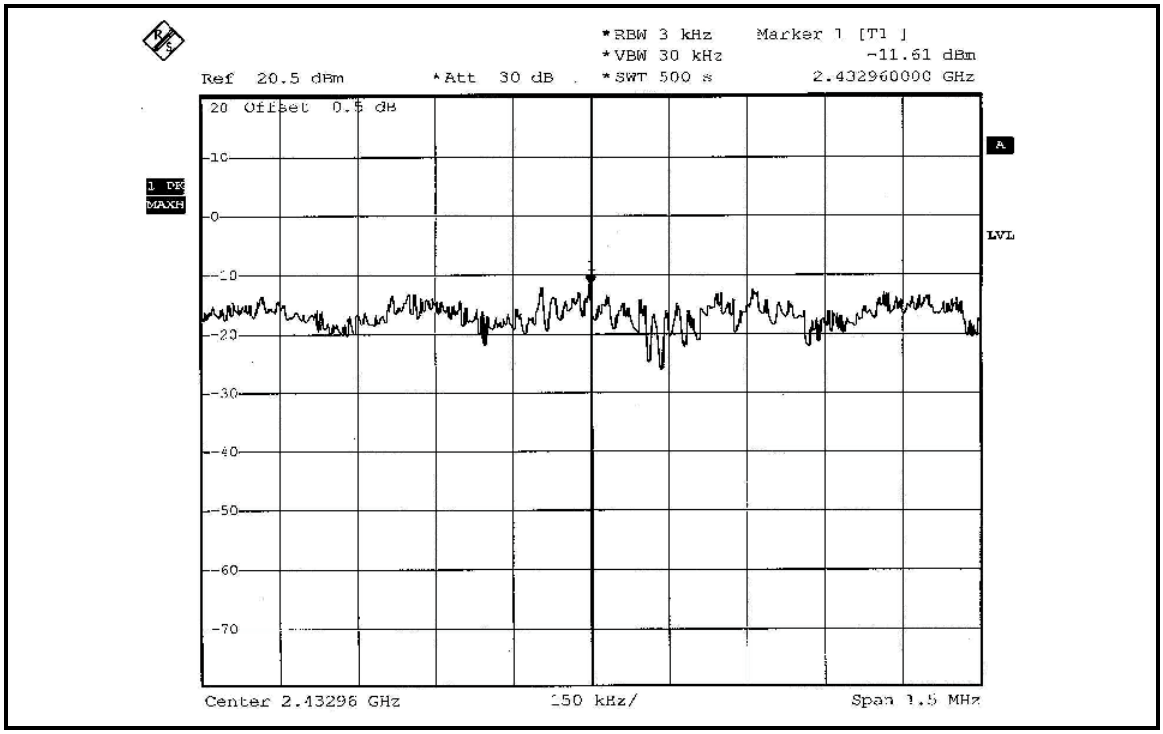
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

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	0.033	-14.30	-14.82	0.070	-11.55	8	PASS
6	2437	0.069	0.060	-11.61	-12.19	0.129	-8.89	8	PASS
11	2462	0.035	0.031	-14.53	-15.15	0.066	-11.80	8	PASS

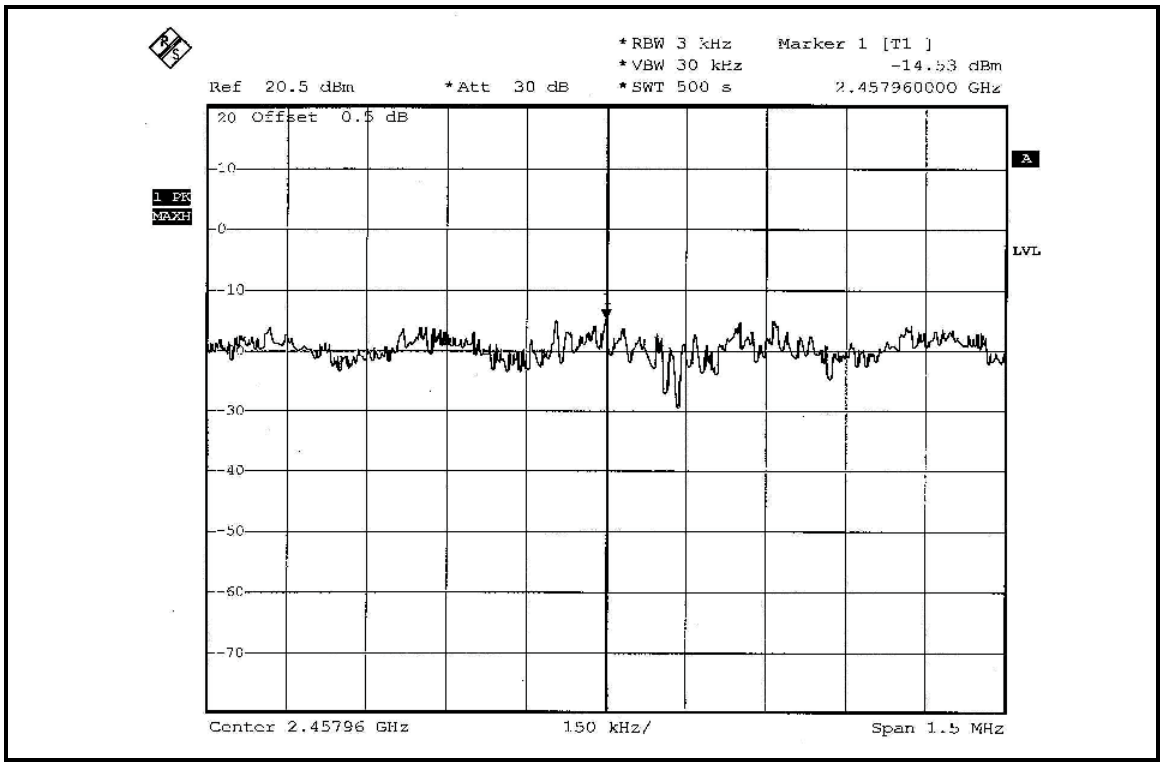
FOR CHAIN 0: CH 1



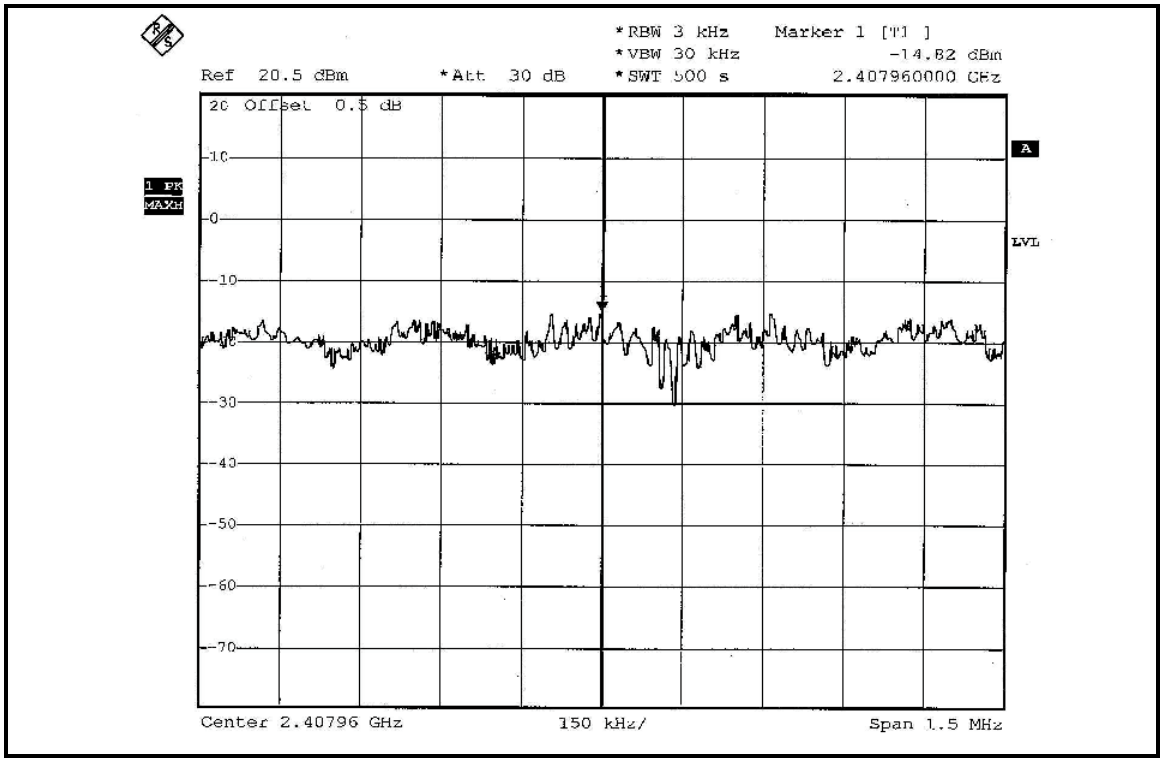
CH 6


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-11.61 dBm
2.432960000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.43296 GHz
150 kHz/
Span 1.5 MHz

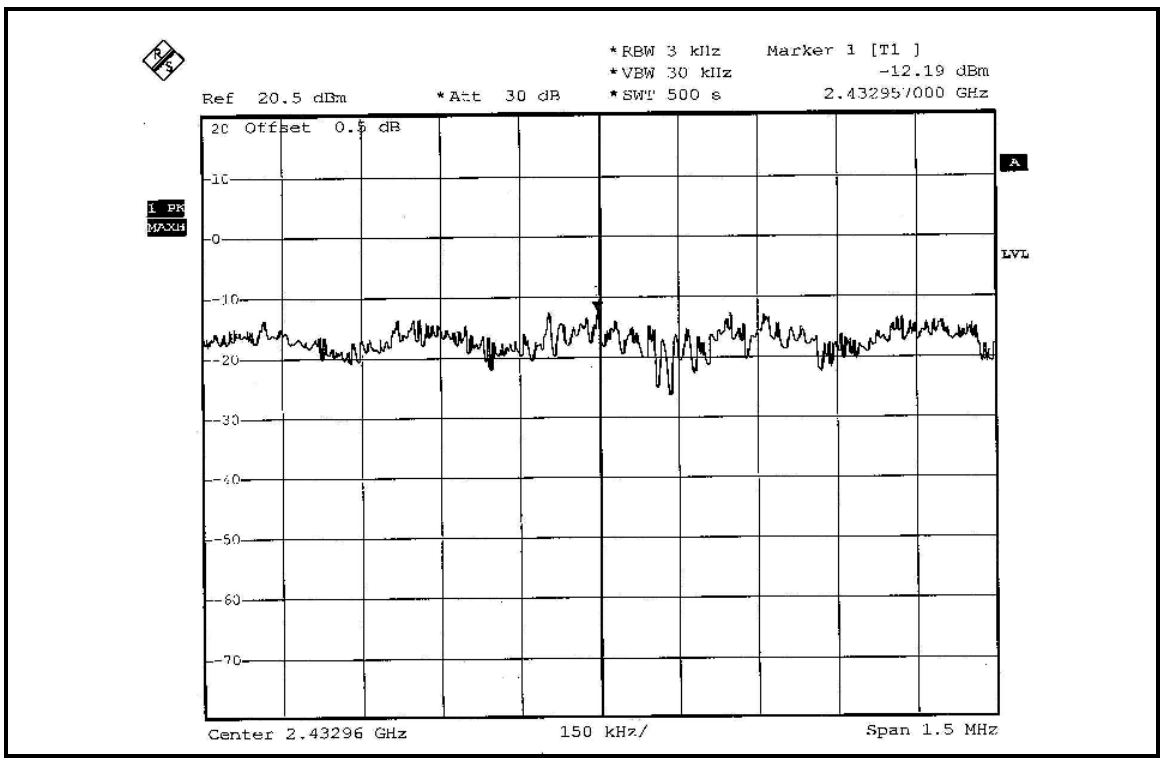
CH 11


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-14.53 dBm
2.457960000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.45796 GHz
150 kHz/
Span 1.5 MHz

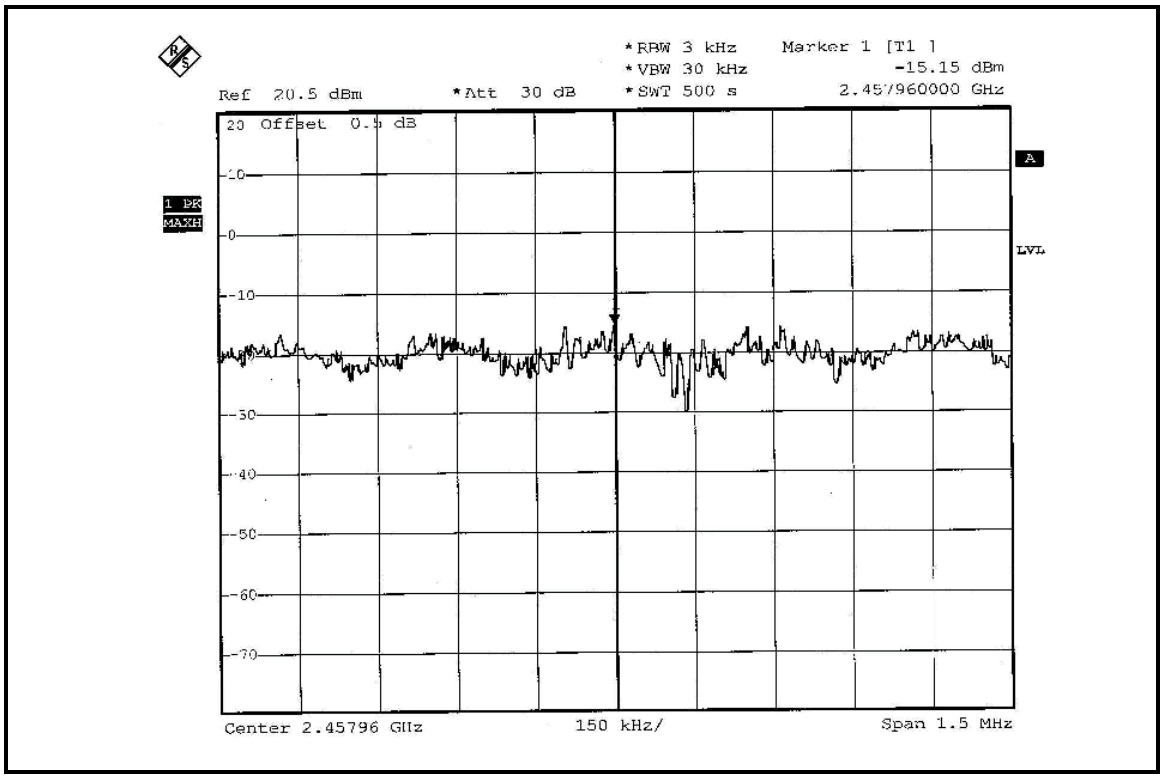
FOR CHAIN 1: CH 1



CH 6



CH 11

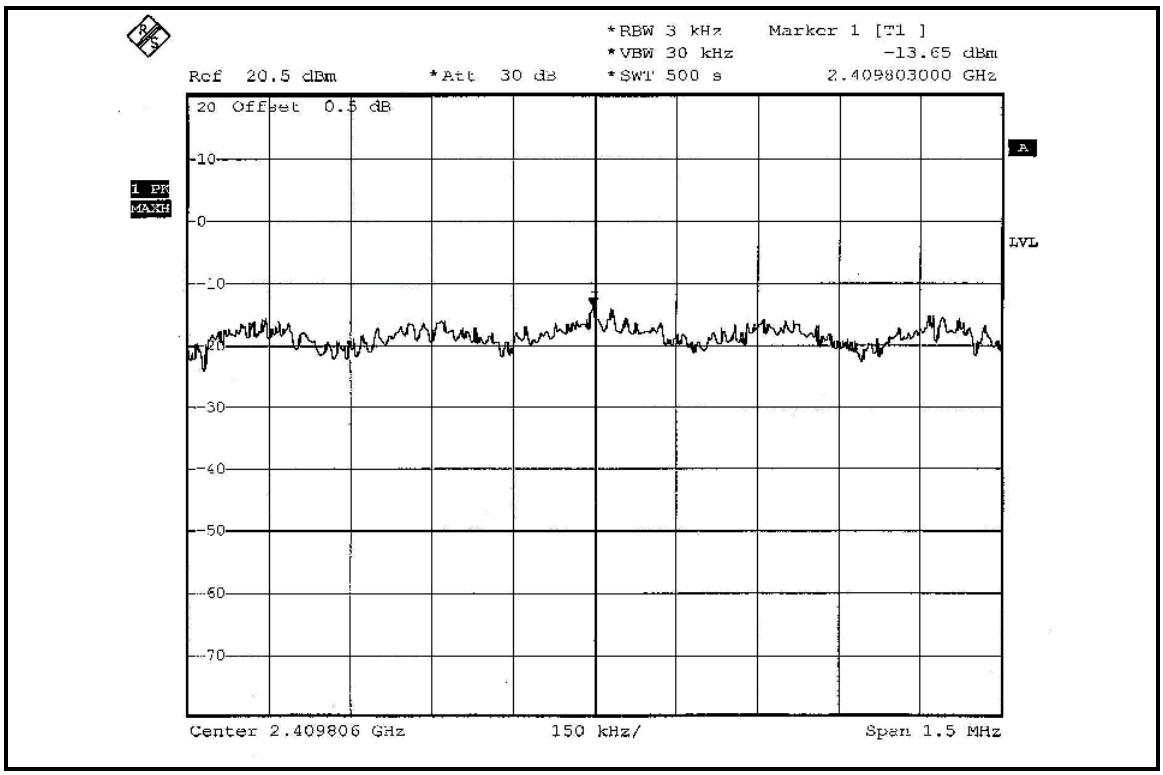

*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-15.15 dBm
2.457960000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PR
MAXH
A
LVL
10
0
-10
-30
-40
-50
-60
-70
Center 2.45796 GHz
150 kHz/
Span 1.5 MHz

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

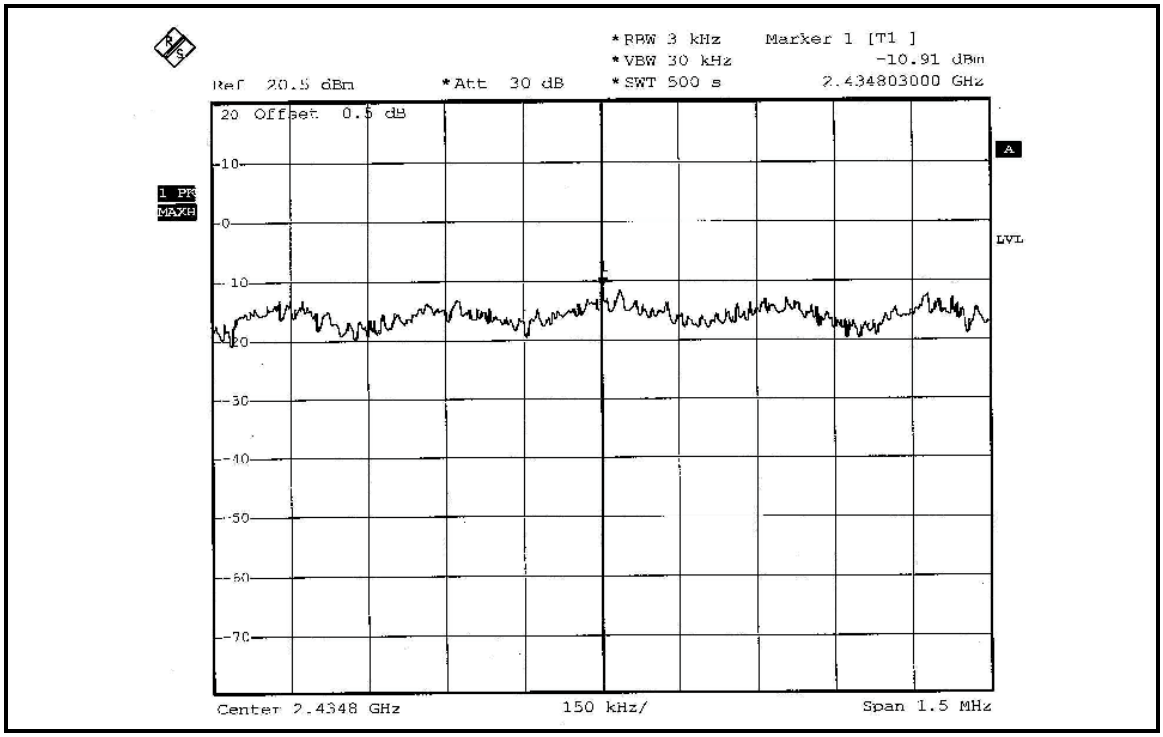
MODULATION TYPE	BPSK	**TRANSFER RATE**	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	22deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

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	0.043	0.038	-13.65	-14.22	0.081	-10.92	8	PASS
6	2437	0.081	0.074	-10.91	-11.32	0.155	-8.10	8	PASS
11	2462	0.040	0.033	-14.00	-14.85	0.073	-11.37	8	PASS

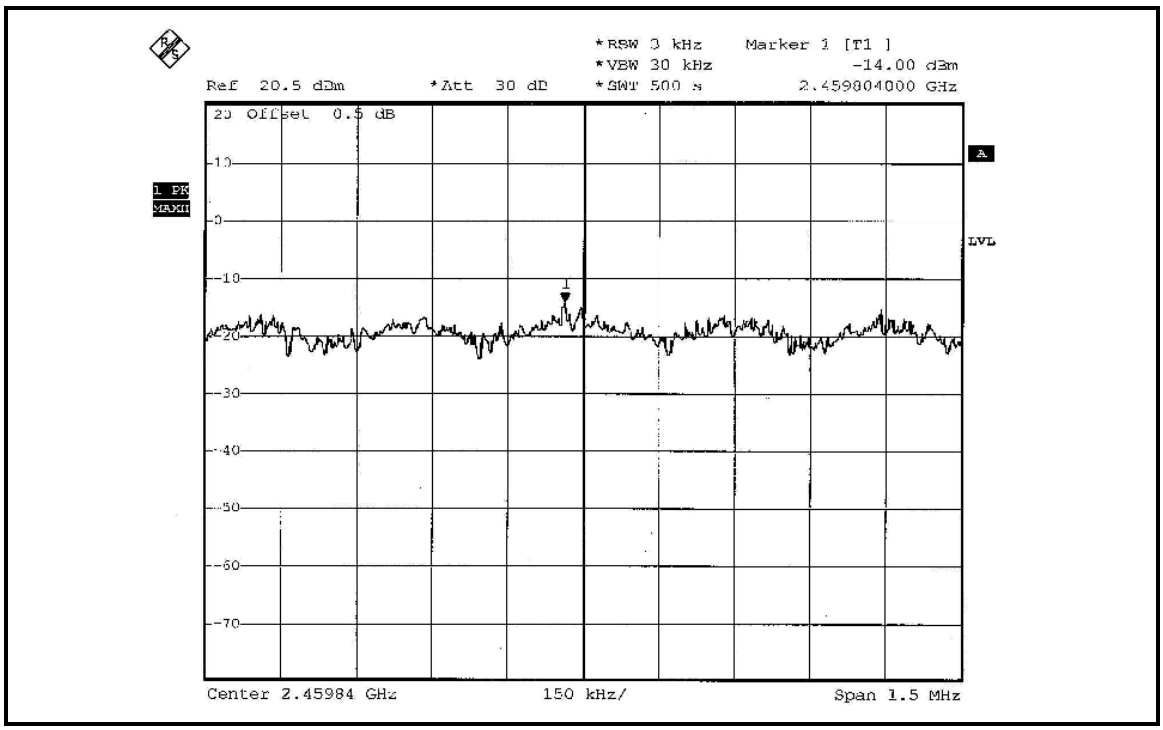
FOR CHAIN 0: CH 1



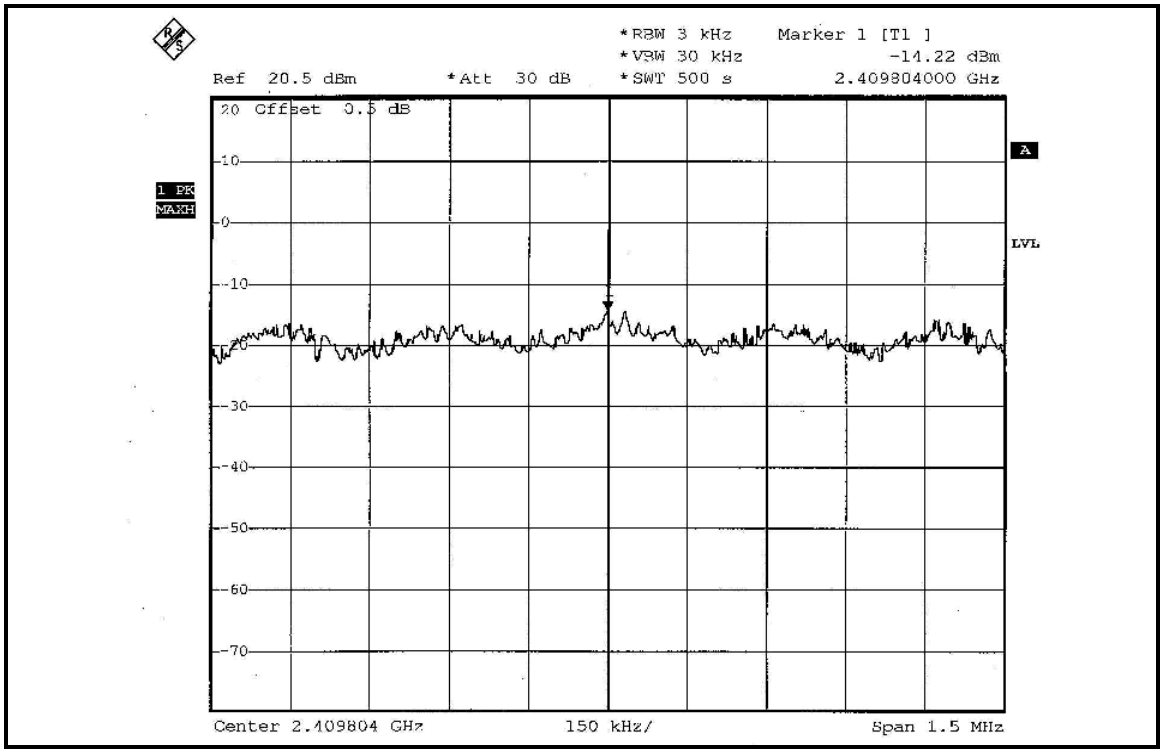
CH 6


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-10.91 dBm
2.434803000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.4348 GHz
150 kHz/
Span 1.5 MHz

CH 11


*RSW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-14.00 dBm
2.459804000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.45984 GHz
150 kHz/
Span 1.5 MHz

FOR CHAIN 1: CH 1



CH 6