



FCC TEST REPORT

REPORT NO.: RF950703L07

MODEL NO.: DWA-552

OEM MODEL NO.: DWA-547

RECEIVED: Jun. 27, 2006

TESTED: Jun. 27 ~ Jul. 20, 2006

ISSUED: Aug. 18, 2006

APPLICANT: D-Link Corporation

ADDRESS: 17595 Mt. Herrmann, Fountain Valley, CA 92708,
U.S.A.

ISSUED BY: Advance Data Technology Corporation

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

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei
Shan Hsiang, Taoyuan Hsien 333, Taiwan,
R.O.C.

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1. CERTIFICATION

PRODUCT: D-Link DWA-552 Xtreme N™ Desktop Adapter
MODEL: DWA-552
OEM MODEL: DWA-547
BRAND: D-Link
APPLICANT: D-Link Corporation
TESTED: Jun. 27 ~ Jul. 20, 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. 18, 2006
Peggy Chen

TECHNICAL ACCEPTANCE : Long Chen , **DATE:** Aug. 18, 2006
Responsible for RF Long Chen

APPROVED BY : Gary Chang , **DATE:** Aug. 18, 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 -12.17dB at 0.646MHz.
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 -1.13dB at 7311.0MHz.
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz (Horizontal)	3.47 dB
	30MHz ~ 200MHz (Vertical)	3.64 dB
	200MHz ~1000MHz (Horizontal)	3.65 dB
	200MHz ~1000MHz (Vertical)	3.64 dB
	1GHz ~ 18GHz	2.56 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	D-Link DWA-552 Xtreme N™ Desktop Adapter
MODEL NO.	DWA-552
OEM MODEL NO.	DWA-547
FCC ID	KA2WA552A1
POWER SUPPLY	5Vdc 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)
MAXIMUM OUTPUT POWER	214.022mW
ANTENNA TYPE	Dipole antenna with 2.0dBi gain
DATA CABLE	NA
I/O PORTS	NA

NOTE:

- Two models are provided to this EUT due to marketing requirement.
- The EUT incorporates a MIMO function with 802.11b, 802.11g, draft 802.11n. Physically, the card provides two completed transmitters and three receivers or three completed transmitters and three receivers controlled by software.
- The EUT is 2* 3 or 3 * 3 spatial MIMO (2Tx & 3Rx or 3Tx & 3Rx) without beam forming function. That operate dual or triple chain configuration (both chain 0 and chain 1 transceivers (for 2Tx & 3Rx) or all chain 0, chain 1 and chain 2 transceivers (for 3Tx & 3Rx) are operational). The EUT was pre-tested under 2TX & 3RX and 3TX & 3RX, 3TX & 3RX is found to be the worst for the final all test items. 2TX & 3RX was tested for radiated emission test only.
- When the EUT operating in 802.11b, 802.11g, the software operation, which is defined by manufacturer, set dual or triple Tx.
- 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 or triple Tx.
- The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.
- The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 300Mbps.
- 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

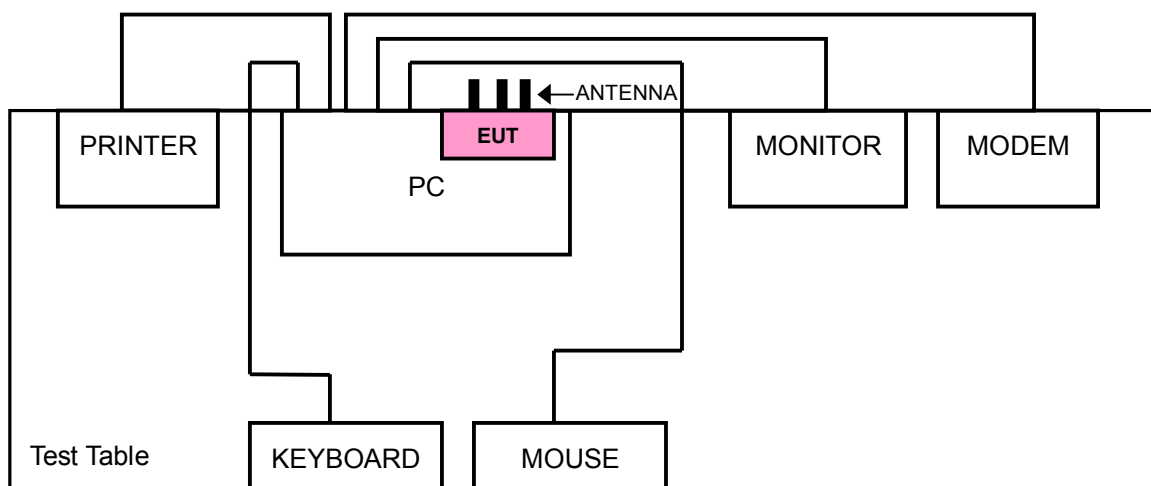
Eleven channels are provided for 802.11b, 802.11g, draft 802.11n (20MHz):

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 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	triple
Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	triple
Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15	triple

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

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	triple
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	triple
Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	triple
Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15	triple

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	PC	Micro Star	Hetis 865G Giga	3AS0119572	FCC DoC Approved
2	LCD MONITOR	ACER	AL1721	ET.L0408.0104 04001E6PK00	FCC DoC Approved
3	PRINTER	EPSON	LQ-300+	DCGY054147	FCC DoC Approved
4	MODEM	ACEEX	1414V/3	0401008269	IFAXDM1414
5	KEYBOARD	HP	SK-1688	C0306114659	GYUR84SK
6	MOUSE	HP	M-S69	M4-010565	INZ211443

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.8m shielded cable
3	1.2m shielded cable
4	1.2m shielded cable
5	1.3m shielded cable
6	1.8m shielded cable

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

4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

4.1.2 TEST INSTRUMENTS

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

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

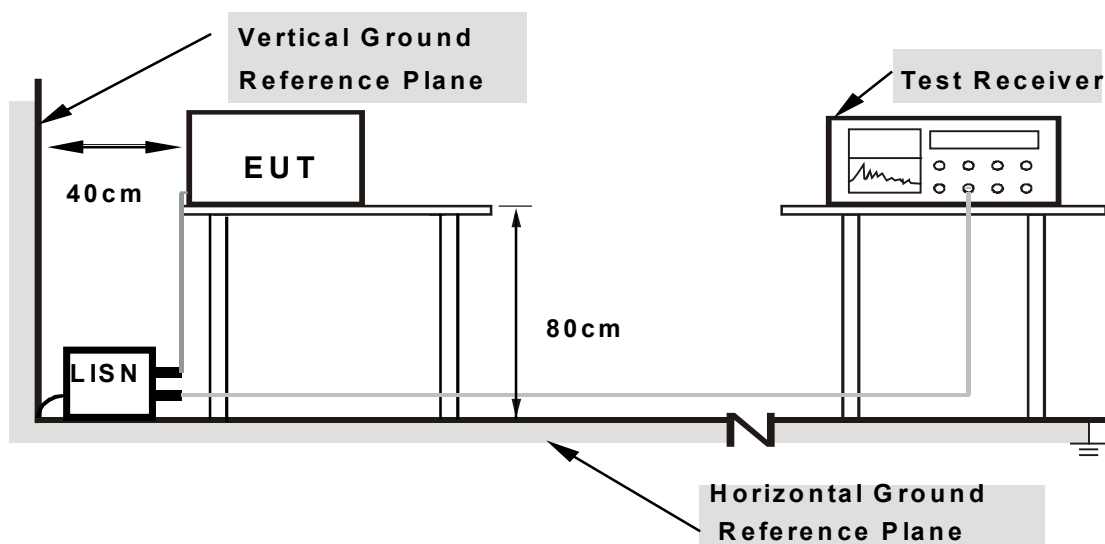
4.1.3 TEST PROCEDURES

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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

4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT into the computer system and placed on a testing table.
- b. The computer system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. The computer system sent "H" messages to monitor, and the monitor displayed them on the screen.
- d. The computer system show "H" messages to modem.
- e. The computer system sent "H" messages to printer and the printer prints them on paper.
- f. Repeated item c ~e.

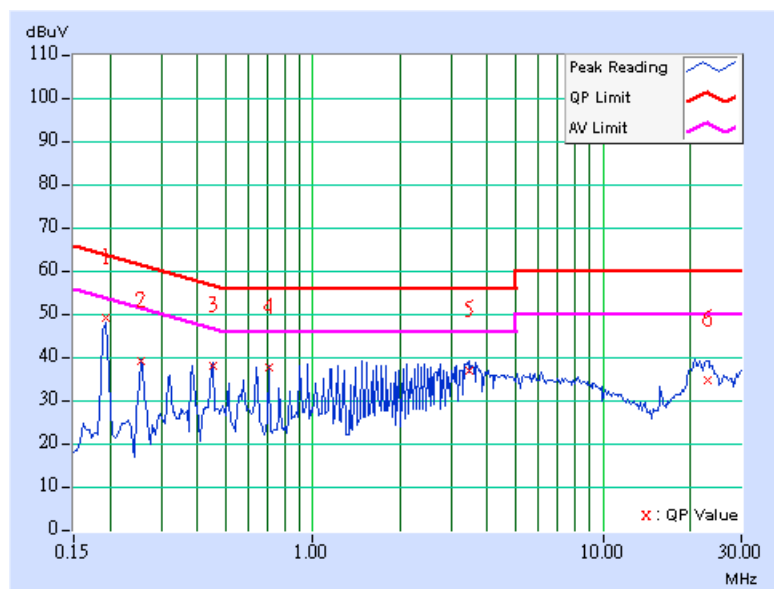
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11g OFDM MODULATION: TRIPLE TX:

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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.25	-	48.35	-	63.91	53.91	-15.56	-
2	0.255	0.10	38.38	-	38.48	-	61.58	51.58	-23.10	-
3	0.451	0.11	37.17	-	37.28	-	56.86	46.86	-19.58	-
4	0.705	0.15	36.66	-	36.81	-	56.00	46.00	-19.19	-
5	3.465	0.40	36.09	-	36.49	-	56.00	46.00	-19.51	-
6	23.028	0.95	33.74	-	34.69	-	60.00	50.00	-25.31	-

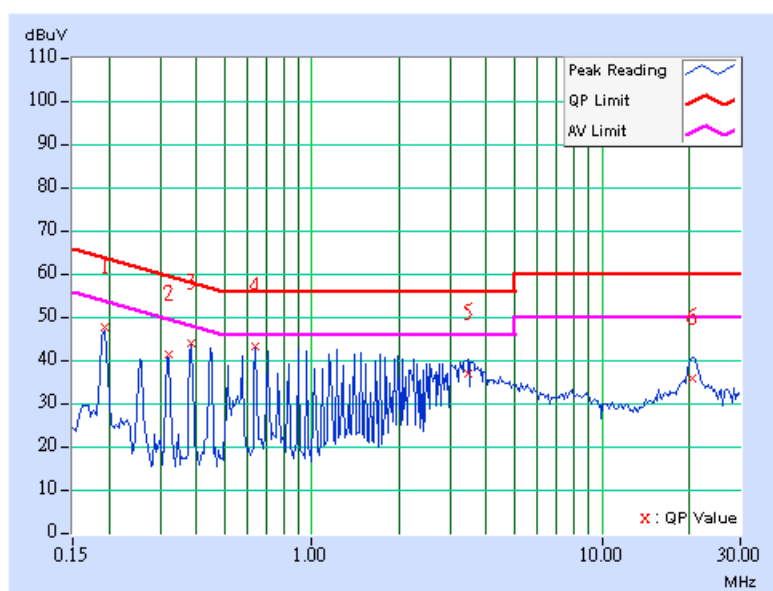
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	47.02	-	47.12	-	63.91	53.91	-16.79	-
2	0.322	0.10	40.73	-	40.83	-	59.66	49.66	-18.83	-
3	0.384	0.10	43.53	-	43.63	-	58.18	48.18	-14.55	-
4	0.642	0.10	42.88	-	42.98	-	56.00	46.00	-13.02	-
5	3.460	0.32	36.25	-	36.57	-	56.00	46.00	-19.43	-
6	20.506	0.63	35.34	-	35.97	-	60.00	50.00	-24.03	-

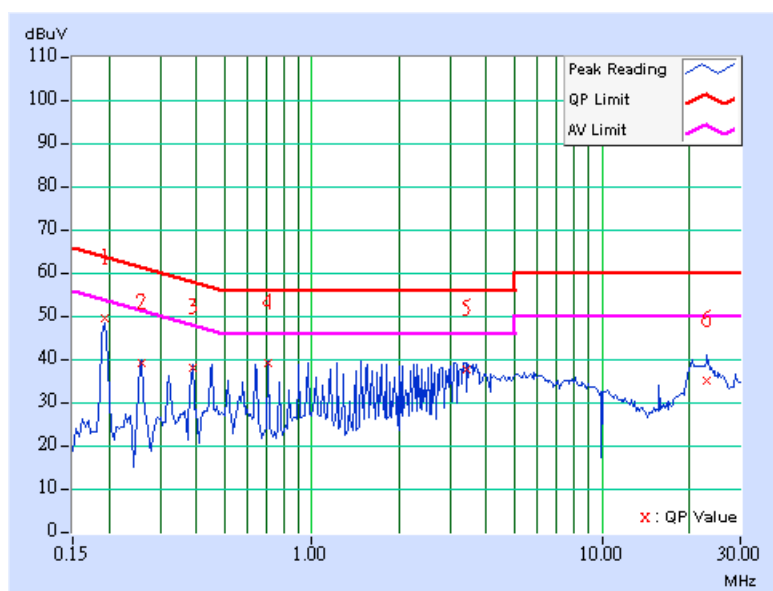
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.55	-	48.65	-	63.91	53.91	-15.26	-
2	0.259	0.10	38.48	-	38.58	-	61.45	51.45	-22.87	-
3	0.388	0.10	37.07	-	37.17	-	58.10	48.10	-20.93	-
4	0.709	0.15	38.16	-	38.31	-	56.00	46.00	-17.69	-
5	3.410	0.39	36.69	-	37.08	-	56.00	46.00	-18.92	-
6	23.040	0.95	34.30	-	35.25	-	60.00	50.00	-24.75	-

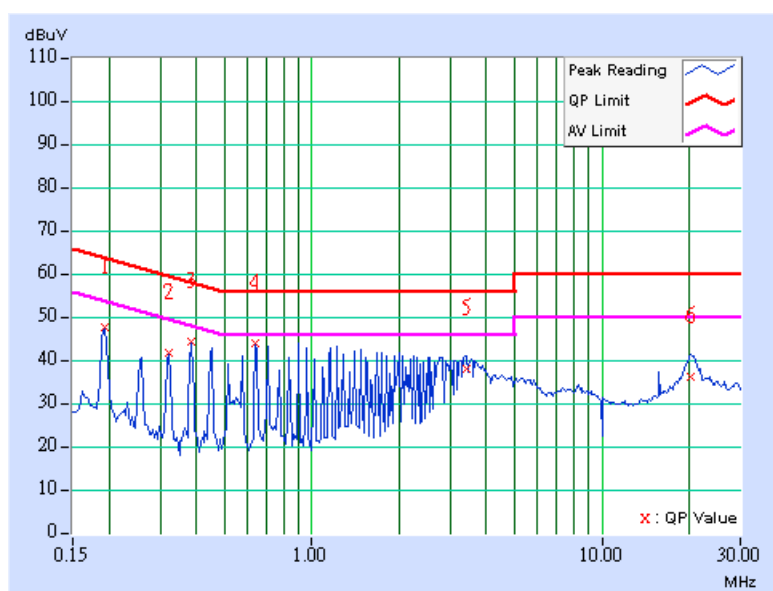
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	47.10	-	47.20	-	63.91	53.91	-16.71	-
2	0.322	0.10	41.15	-	41.25	-	59.66	49.66	-18.41	-
3	0.386	0.10	43.71	-	42.81	-	58.16	48.16	-15.35	-
4	0.642	0.10	43.41	-	42.51	-	56.00	46.00	-13.49	-
5	3.410	0.32	37.49	-	37.81	-	56.00	46.00	-18.19	-
6	20.266	0.63	35.66	-	36.29	-	60.00	50.00	-23.71	-

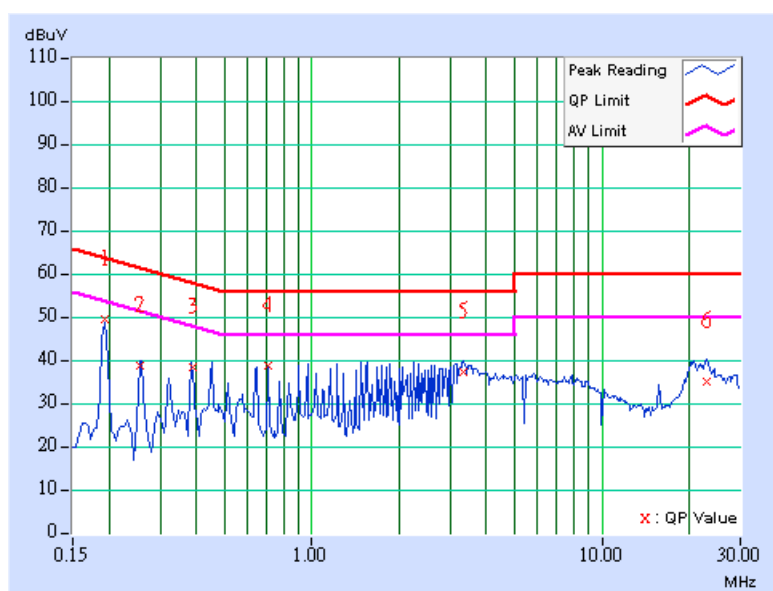
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.53	-	48.63	-	63.91	53.91	-15.28	-
2	0.255	0.10	38.03	-	38.13	-	61.58	51.58	-23.45	-
3	0.387	0.10	37.63	-	37.73	-	58.13	48.13	-20.40	-
4	0.709	0.15	38.12	-	38.27	-	56.00	46.00	-17.73	-
5	3.348	0.38	36.33	-	36.71	-	56.00	46.00	-19.29	-
6	23.057	0.95	34.10	-	35.05	-	60.00	50.00	-24.95	-

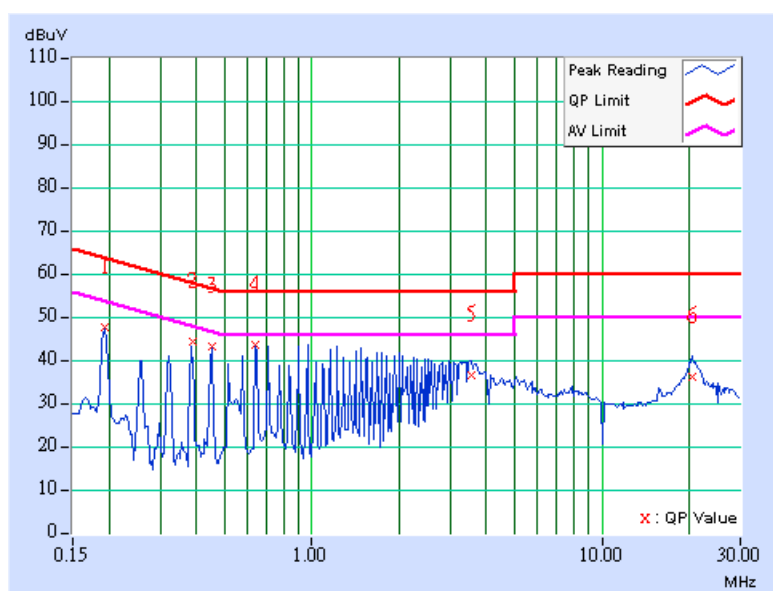
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	47.12	-	47.22	-	63.91	53.91	-16.69	-
2	0.387	0.10	43.67	-	43.77	-	58.13	48.13	-14.36	-
3	0.451	0.10	42.78	-	42.88	-	56.86	46.86	-13.98	-
4	0.642	0.10	43.17	-	43.27	-	56.00	46.00	-12.73	-
5	3.539	0.33	36.09	-	36.42	-	56.00	46.00	-19.58	-
6	20.474	0.63	35.79	-	36.42	-	60.00	50.00	-23.58	-

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

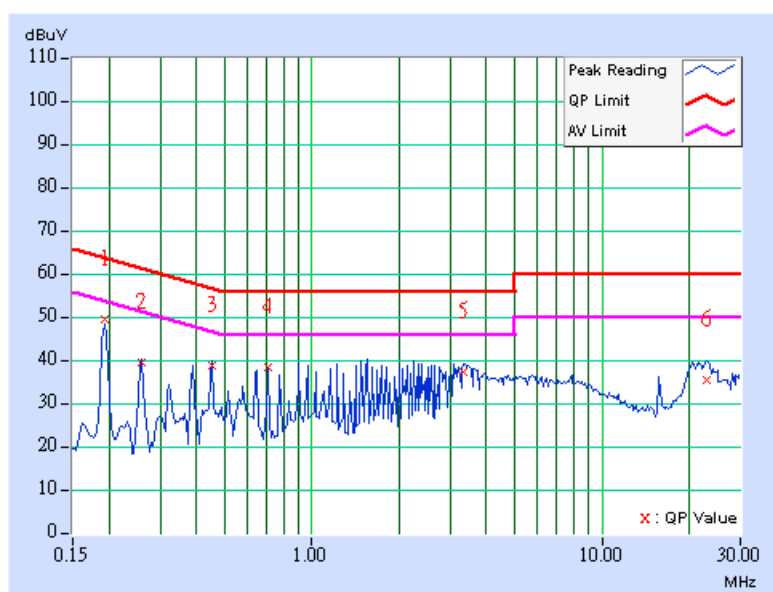


DRAFT 802.11n (20MHz) OFDM MODULATION: TRIPLE TX:

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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.51	-	48.61	-	63.91	53.91	-15.30	-
2	0.259	0.10	38.56	-	38.66	-	61.45	51.45	-22.79	-
3	0.451	0.11	37.95	-	38.06	-	56.86	46.86	-18.80	-
4	0.709	0.15	37.48	-	37.63	-	56.00	46.00	-18.37	-
5	3.352	0.38	36.55	-	36.93	-	56.00	46.00	-19.07	-
6	22.879	0.95	34.53	-	35.48	-	60.00	50.00	-24.52	-

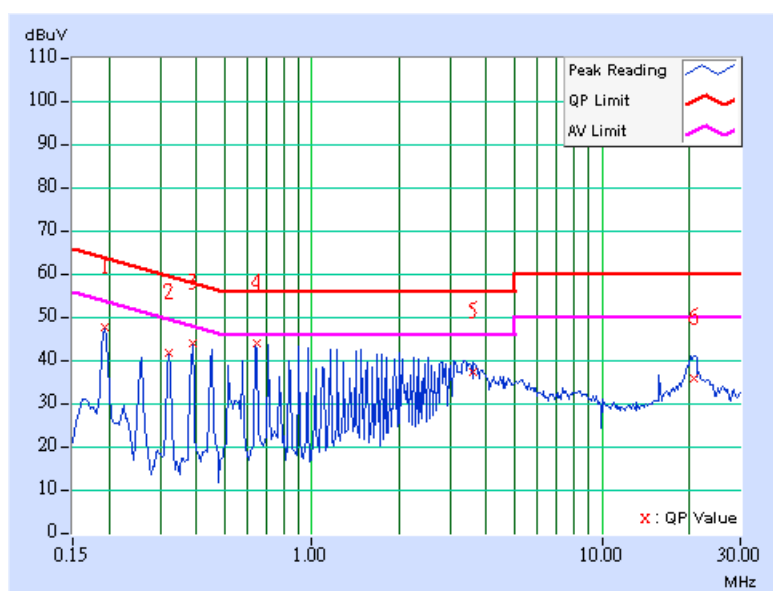
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	47.04	-	47.14	-	63.91	53.91	-16.77	-
2	0.322	0.10	41.21	-	41.31	-	59.66	49.66	-18.35	-
3	0.388	0.10	43.33	-	43.43	-	58.10	48.10	-14.67	-
4	0.645	0.10	43.59	-	43.69	-	56.00	46.00	-12.31	-
5	3.609	0.34	36.94	-	37.28	-	56.00	46.00	-18.72	-
6	20.745	0.63	35.48	-	36.11	-	60.00	50.00	-23.89	-

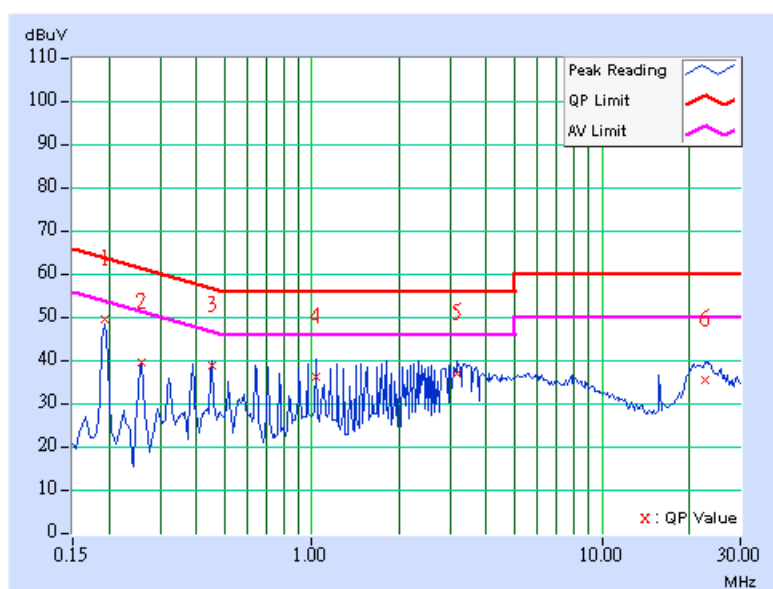
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.51	-	48.61	-	63.91	53.91	-15.30	-
2	0.259	0.10	38.64	-	38.74	-	61.45	51.45	-22.71	-
3	0.451	0.11	38.07	-	38.18	-	56.86	46.86	-18.68	-
4	1.031	0.20	35.41	-	35.61	-	56.00	46.00	-20.39	-
5	3.160	0.36	36.20	-	36.56	-	56.00	46.00	-19.44	-
6	22.758	0.94	34.46	-	35.40	-	60.00	50.00	-24.60	-

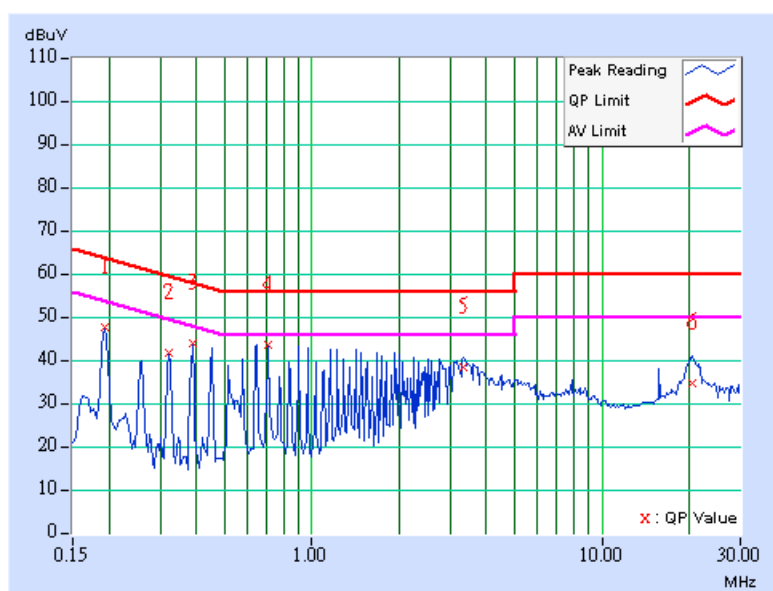
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	47.08	-	47.18	-	63.91	53.91	-16.73	-
2	0.322	0.10	41.19	-	41.29	-	59.66	49.66	-18.37	-
3	0.388	0.10	43.47	-	43.57	-	58.10	48.10	-14.53	-
4	0.709	0.10	42.93	-	43.03	-	56.00	46.00	-12.97	-
5	3.352	0.31	37.95	-	38.26	-	56.00	46.00	-17.74	-
6	20.621	0.63	34.21	-	34.84	-	60.00	50.00	-25.16	-

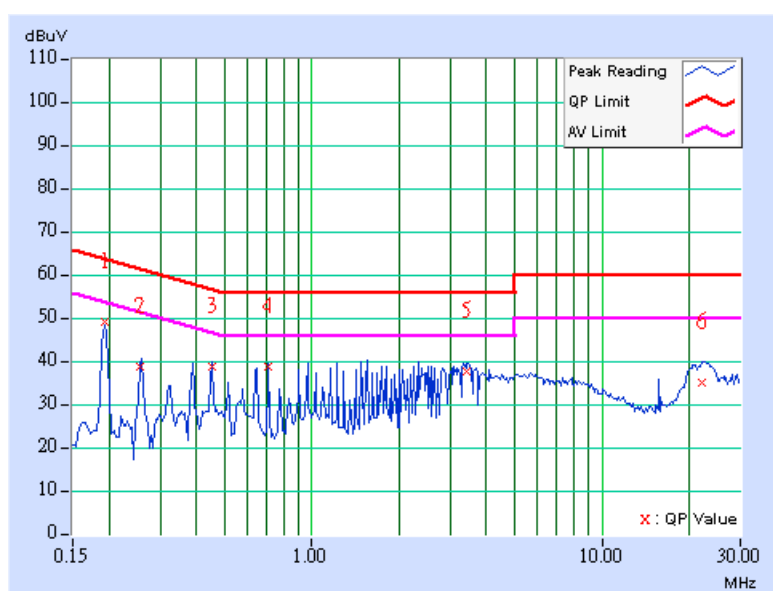
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.51	-	48.61	-	63.91	53.91	-15.30	-
2	0.255	0.10	37.79	-	37.89	-	61.58	51.58	-23.69	-
3	0.451	0.11	37.93	-	38.04	-	56.86	46.86	-18.82	-
4	0.709	0.15	38.10	-	38.25	-	56.00	46.00	-17.75	-
5	3.418	0.39	36.85	-	37.24	-	56.00	46.00	-18.76	-
6	22.125	0.92	34.37	-	35.29	-	60.00	50.00	-24.71	-

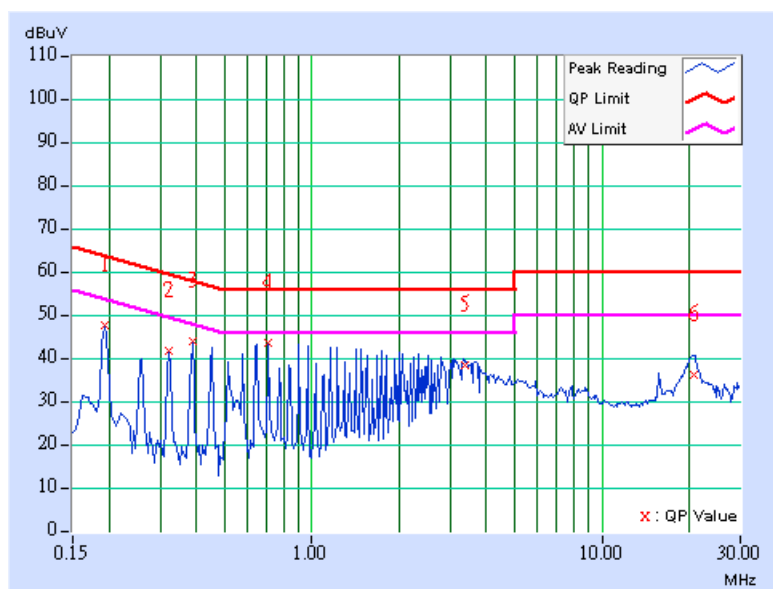
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	47.04	-	47.14	-	63.91	53.91	-16.77	-
2	0.322	0.10	41.11	-	41.21	-	59.66	49.66	-18.45	-
3	0.388	0.10	43.53	-	43.63	-	58.10	48.10	-14.47	-
4	0.709	0.10	43.02	-	43.12	-	56.00	46.00	-12.88	-
5	3.354	0.32	37.83	-	38.15	-	56.00	46.00	-17.85	-
6	20.637	0.63	35.65	-	36.28	-	60.00	50.00	-23.72	-

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

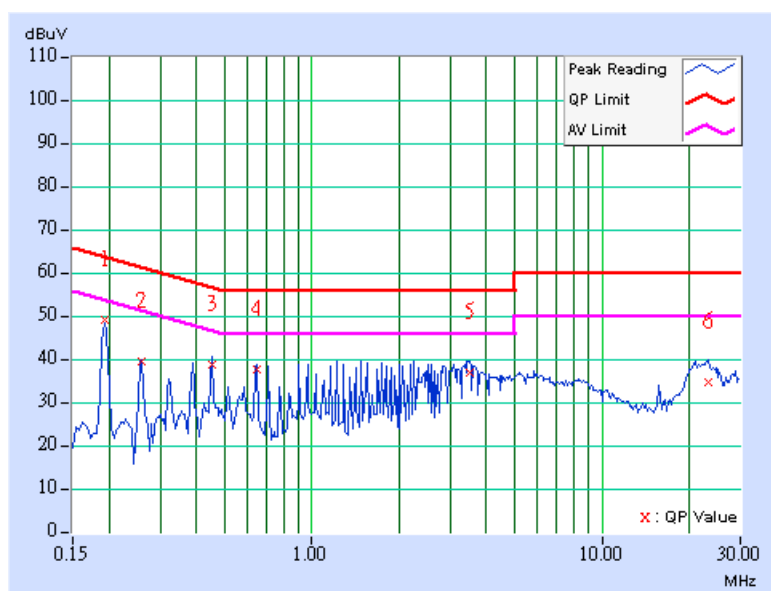


DRAFT 802.11n (40MHz) OFDM MODULATION: TRIPLE TX:

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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.39	-	48.49	-	63.91	53.91	-15.42	-
2	0.259	0.10	38.54	-	38.64	-	61.45	51.45	-22.81	-
3	0.451	0.11	37.77	-	37.88	-	56.86	46.86	-18.98	-
4	0.646	0.14	36.79	-	36.93	-	56.00	46.00	-19.07	-
5	3.484	0.40	36.13	-	36.53	-	56.00	46.00	-19.47	-
6	23.297	0.96	33.72	-	34.68	-	60.00	50.00	-25.32	-

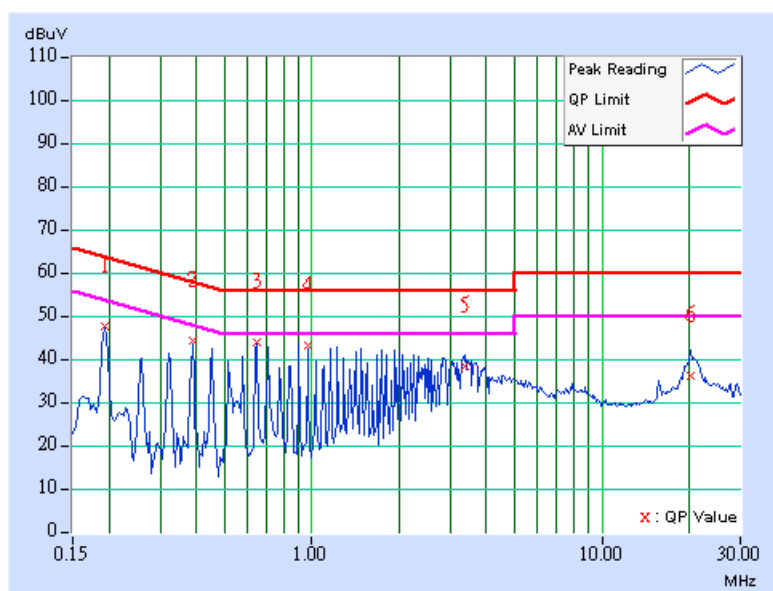
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	47.02	-	47.12	-	63.91	53.91	-16.79	-
2	0.388	0.10	43.63	-	43.73	-	58.10	48.10	-14.37	-
3	0.646	0.10	43.53	-	43.63	-	56.00	46.00	-12.37	-
4	0.966	0.10	42.61	-	42.71	-	56.00	46.00	-13.29	-
5	3.355	0.32	37.88	-	38.20	-	56.00	46.00	-17.80	-
6	20.324	0.63	35.63	-	36.26	-	60.00	50.00	-23.74	-

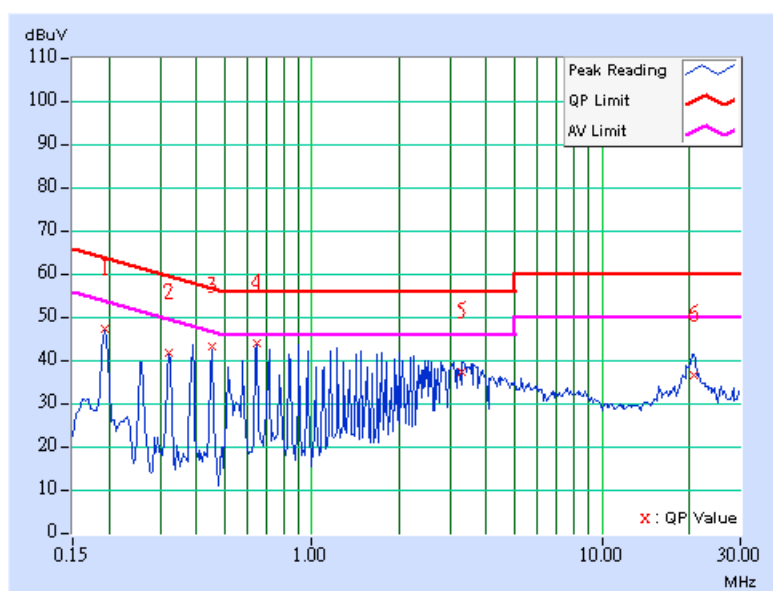
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.41	-	48.51	-	63.91	53.91	-15.40	-
2	0.255	0.10	37.59	-	37.69	-	61.58	51.58	-23.89	-
3	0.453	0.11	37.65	-	37.76	-	56.81	46.81	-19.05	-
4	1.227	0.20	37.85	-	38.05	-	56.00	46.00	-17.95	-
5	3.484	0.40	36.23	-	36.63	-	56.00	46.00	-19.37	-
6	23.302	0.96	33.83	-	34.79	-	60.00	50.00	-25.21	-

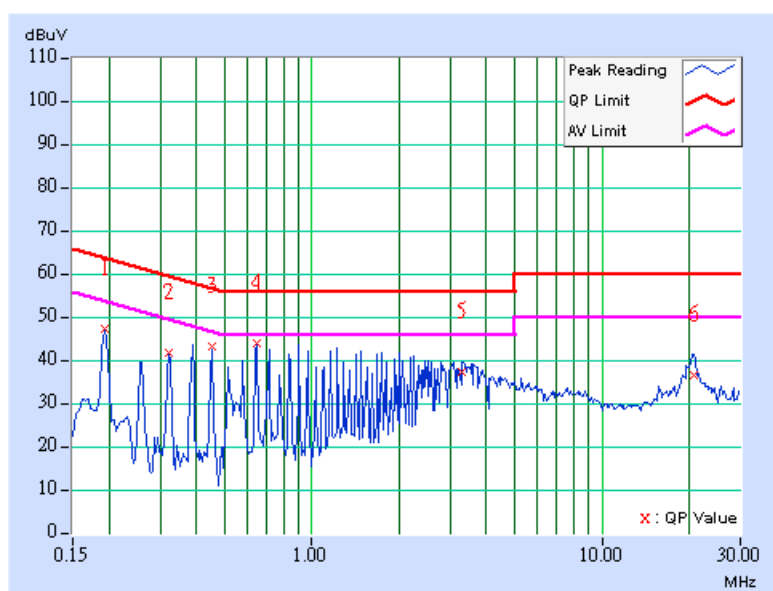
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	46.94	-	47.04	-	63.91	53.91	-16.87	-
2	0.322	0.10	41.19	-	41.29	-	59.66	49.66	-18.37	-
3	0.451	0.10	42.54	-	41.64	-	56.86	46.86	-15.22	-
4	0.646	0.10	43.57	-	43.67	-	56.00	46.00	-12.33	-
5	3.289	0.31	36.68	-	36.99	-	56.00	46.00	-19.01	-
6	20.719	0.63	35.86	-	36.49	-	60.00	50.00	-23.51	-

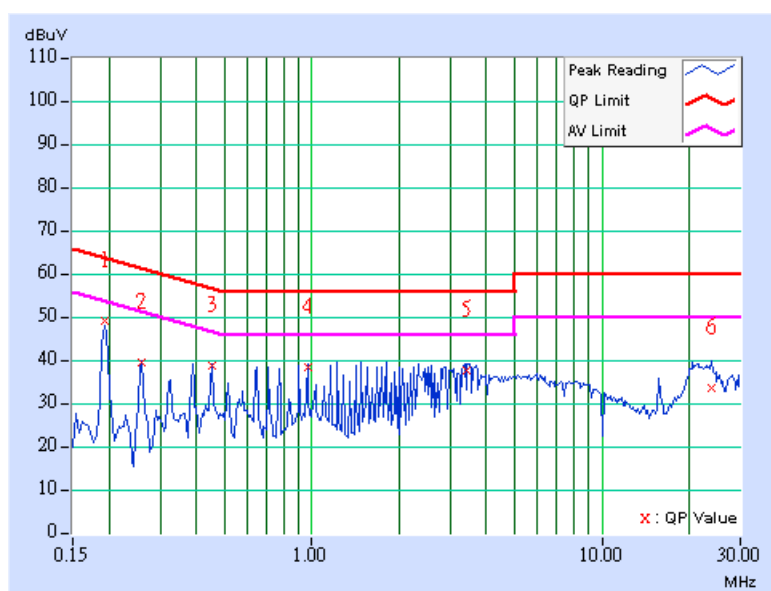
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	48.45	-	48.55	-	63.91	53.91	-15.36	-
2	0.259	0.10	38.80	-	38.90	-	61.45	51.45	-22.55	-
3	0.451	0.11	37.97	-	38.08	-	56.86	46.86	-18.78	-
4	0.968	0.19	37.39	-	37.58	-	56.00	46.00	-18.42	-
5	3.422	0.39	36.89	-	37.28	-	56.00	46.00	-18.72	-
6	23.826	0.98	32.82	-	33.80	-	60.00	50.00	-26.20	-

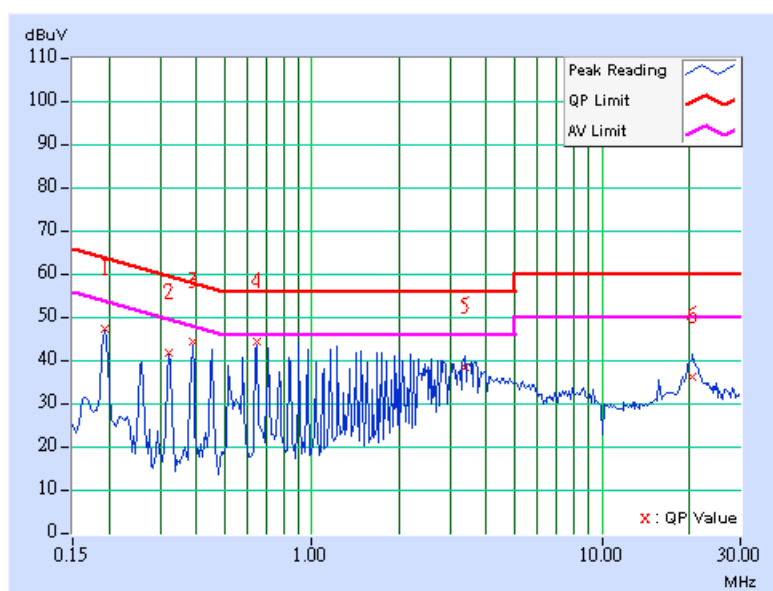
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 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

No	Freq. [MHz]	Corr. Factor [dB]	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	46.64	-	46.74	-	63.91	53.91	-17.17	-
2	0.322	0.10	41.07	-	41.17	-	59.66	49.66	-18.49	-
3	0.388	0.10	43.69	-	43.79	-	58.10	48.10	-14.31	-
4	0.646	0.10	43.73	-	43.83	-	56.00	46.00	-12.17	-
5	3.355	0.32	37.72	-	38.04	-	56.00	46.00	-17.96	-
6	20.590	0.63	35.62	-	36.25	-	60.00	50.00	-23.75	-

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



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	ESIB7	100188	Dec. 20, 2006
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 27, 2006
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Jan. 15, 2007
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Jan. 22, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170147	Jan. 26, 2007
Preamplifier Agilent	8449B	3008A01961	Oct. 23, 2006
Preamplifier Agilent	8447D	2944A10629	Oct. 27, 2006
RF signal cable HUBER+SUHNER	SUCOFLEX 104	214380/4	Jan. 16, 2007
RF signal cable HUBER+SUHNER	SUCOFLEX 104	219266/4	Jan. 16, 2007
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	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 1.
 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 IC4924-2.

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.

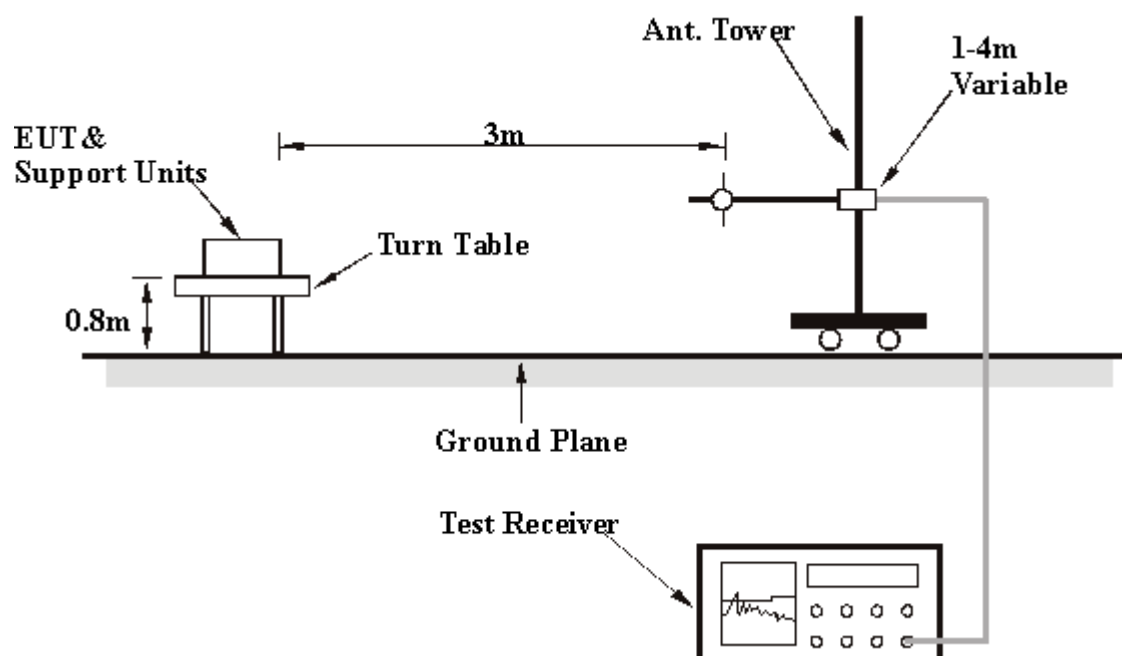
NOTE:

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: TRIPLE TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27deg. C, 69%RH, 991hPa	TESTED BY	Match Tsui

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	479.04	33.04 QP	46.00	-12.96	2.00 H	211	13.45	19.60
2	506.25	34.98 QP	46.00	-11.02	2.00 H	178	14.77	20.20
3	533.47	31.18 QP	46.00	-14.82	1.50 H	160	10.38	20.80
4	580.12	34.57 QP	46.00	-11.43	1.00 H	268	12.61	21.96
5	675.37	36.90 QP	46.00	-9.10	1.00 H	37	13.31	23.59
6	737.58	32.73 QP	46.00	-13.27	2.00 H	310	7.36	25.37
7	809.50	31.03 QP	46.00	-14.97	2.00 H	55	4.91	26.13
8	881.42	31.15 QP	46.00	-14.85	1.00 H	310	4.22	26.93

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	479.04	32.46 QP	46.00	-13.54	1.00 V	334	12.86	19.60
2	506.25	31.80 QP	46.00	-14.20	1.00 V	19	11.60	20.20
3	537.35	34.20 QP	46.00	-11.80	1.00 V	319	13.32	20.88
4	580.12	32.43 QP	46.00	-13.57	1.00 V	268	10.47	21.96
5	613.17	32.84 QP	46.00	-13.16	1.00 V	268	10.21	22.63
6	675.37	34.26 QP	46.00	-11.74	2.00 V	34	10.67	23.59
7	760.90	31.46 QP	46.00	-14.54	1.00 V	346	5.64	25.83
8	795.89	32.09 QP	46.00	-13.91	1.00 V	319	6.12	25.98
9	906.69	37.28 QP	46.00	-8.72	1.00 V	304	9.88	27.39
10	933.91	34.50 QP	46.00	-11.50	1.00 V	223	5.83	28.66
11	945.57	36.07 QP	46.00	-9.93	1.00 V	253	6.86	29.21

- 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: TRIPLE TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27deg. C, 69%RH, 991hPa	TESTED BY	Match Tsui

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	177.74	31.26 QP	43.50	-12.24	2.00 H	298	18.94	12.31
2	479.04	33.14 QP	46.00	-12.86	1.50 H	16	13.54	19.60
3	506.25	32.91 QP	46.00	-13.09	1.00 H	109	12.71	20.20
4	539.30	31.85 QP	46.00	-14.15	1.00 H	109	10.93	20.93
5	601.50	31.32 QP	46.00	-14.68	2.00 H	349	8.82	22.50
6	675.37	37.15 QP	46.00	-8.85	2.00 H	193	13.56	23.59
7	708.42	31.59 QP	46.00	-14.41	2.00 H	193	7.17	24.41
8	739.52	32.44 QP	46.00	-13.56	2.00 H	193	7.00	25.44
9	799.78	33.58 QP	46.00	-12.42	2.00 H	298	7.58	26.00

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	479.04	32.48 QP	46.00	-13.52	1.50 V	331	12.88	19.60
2	510.14	32.63 QP	46.00	-13.37	1.00 V	262	12.34	20.29
3	539.30	34.04 QP	46.00	-11.96	1.00 V	280	13.11	20.93
4	570.40	35.08 QP	46.00	-10.92	1.00 V	10	13.38	21.70
5	603.45	35.18 QP	46.00	-10.82	1.00 V	10	12.65	22.52
6	644.27	31.07 QP	46.00	-14.93	1.50 V	331	8.10	22.97
7	675.37	35.26 QP	46.00	-10.74	1.00 V	262	11.67	23.59
8	751.18	32.02 QP	46.00	-13.98	1.00 V	304	6.24	25.78
9	758.96	32.33 QP	46.00	-13.67	1.00 V	67	6.51	25.82
10	805.61	31.87 QP	46.00	-14.13	1.00 V	154	5.79	26.07
11	914.47	34.91 QP	46.00	-11.09	1.00 V	67	7.16	27.76
12	947.52	35.43 QP	46.00	-10.57	1.00 V	64	6.13	29.30

- 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: TRIPLE TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27deg. C, 69%RH, 991hPa	TESTED BY	Match Tsui

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	479.04	33.12 QP	46.00	-12.88	1.50 H	190	13.52	19.60
2	519.86	32.03 QP	46.00	-13.97	1.00 H	238	11.53	20.50
3	603.45	31.62 QP	46.00	-14.38	1.50 H	328	9.10	22.52
4	675.37	36.49 QP	46.00	-9.51	1.50 H	28	12.90	23.59
5	704.53	31.62 QP	46.00	-14.38	1.50 H	37	7.33	24.29
6	739.52	32.98 QP	46.00	-13.02	1.50 H	28	7.54	25.44
7	803.67	33.01 QP	46.00	-12.99	1.50 H	190	6.96	26.05
8	879.48	33.21 QP	46.00	-12.79	2.00 H	34	6.30	26.91

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	479.04	32.13 QP	46.00	-13.87	1.50 V	244	12.53	19.60
2	519.86	31.35 QP	46.00	-14.65	1.00 V	319	10.85	20.50
3	539.30	34.91 QP	46.00	-11.09	1.00 V	199	13.98	20.93
4	570.40	34.40 QP	46.00	-11.60	1.00 V	49	12.69	21.70
5	613.17	33.68 QP	46.00	-12.32	1.00 V	220	11.05	22.63
6	675.37	35.22 QP	46.00	-10.78	1.50 V	76	11.63	23.59
7	751.18	31.69 QP	46.00	-14.31	1.00 V	115	5.91	25.78
8	809.50	32.32 QP	46.00	-13.68	1.00 V	277	6.19	26.13
9	933.91	34.95 QP	46.00	-11.05	1.00 V	277	6.29	28.66
10	947.52	35.74 QP	46.00	-10.26	1.00 V	247	6.44	29.30

- 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.



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	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27deg. C, 69%RH, 991hPa	TESTED BY	Match Tsui

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	502.36	31.23 QP	46.00	-14.77	1.00 H	160	11.11	20.12
2	537.35	32.05 QP	46.00	-13.95	1.00 H	70	11.16	20.88
3	595.67	32.96 QP	46.00	-13.04	1.00 H	283	10.58	22.37
4	671.48	39.19 QP	46.00	-6.81	1.50 H	154	15.69	23.50
5	708.42	31.60 QP	46.00	-14.40	1.50 H	100	7.19	24.41
6	737.58	33.42 QP	46.00	-12.58	1.00 H	118	8.05	25.37
7	803.67	31.03 QP	46.00	-14.97	1.00 H	295	4.98	26.05
8	879.48	39.24 QP	46.00	-6.76	1.00 H	316	12.33	26.91
9	933.91	31.85 QP	46.00	-14.15	1.00 H	283	3.18	28.66
10	949.46	35.03 QP	46.00	-10.97	1.00 H	160	5.64	29.39

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	539.30	34.52 QP	46.00	-11.48	1.50 V	313	13.59	20.93
2	570.40	34.93 QP	46.00	-11.07	1.00 V	268	13.22	21.70
3	675.37	33.10 QP	46.00	-12.90	1.00 V	268	9.51	23.59
4	731.74	31.12 QP	46.00	-14.88	1.00 V	139	5.94	25.18
5	805.61	31.01 QP	46.00	-14.99	1.00 V	316	4.94	26.07
6	879.48	40.55 QP	46.00	-5.45	1.50 V	331	13.64	26.91
7	914.47	33.72 QP	46.00	-12.28	1.00 V	292	5.97	27.76
8	951.40	35.52 QP	46.00	-10.48	1.00 V	268	6.13	29.39

- 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	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27deg. C, 69%RH, 991hPa	TESTED BY	Match Tsui

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	539.30	32.53 QP	46.00	-13.47	2.50 H	46	11.60	20.93
2	574.29	32.63 QP	46.00	-13.37	2.00 H	67	10.82	21.81
3	675.37	37.01 QP	46.00	-8.99	2.00 H	7	13.42	23.59
4	704.53	33.53 QP	46.00	-12.47	2.50 H	46	9.24	24.29
5	743.41	32.51 QP	46.00	-13.49	1.50 H	328	6.95	25.56
6	758.96	31.08 QP	46.00	-14.92	1.00 H	346	5.26	25.82
7	799.78	31.64 QP	46.00	-14.36	2.00 H	67	5.65	26.00
8	879.48	40.24 QP	46.00	-5.76	2.00 H	97	13.32	26.91
9	933.91	32.42 QP	46.00	-13.58	1.00 H	31	3.76	28.66
10	949.46	36.89 QP	46.00	-9.11	2.00 H	133	7.50	29.39

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	539.30	35.06 QP	46.00	-10.94	1.50 V	256	14.14	20.93
2	570.40	32.20 QP	46.00	-13.80	1.00 V	331	10.50	21.70
3	603.45	32.87 QP	46.00	-13.13	1.00 V	331	10.35	22.52
4	673.43	32.36 QP	46.00	-13.64	1.00 V	280	8.81	23.55
5	751.18	31.30 QP	46.00	-14.70	1.00 V	115	5.51	25.78
6	782.28	32.98 QP	46.00	-13.02	1.00 V	115	7.06	25.92
7	784.23	31.74 QP	46.00	-14.26	1.00 V	331	5.82	25.93
8	879.48	32.17 QP	46.00	-13.83	1.00 V	259	5.26	26.91
9	933.91	34.87 QP	46.00	-11.13	1.00 V	322	6.21	28.66
10	947.52	35.52 QP	46.00	-10.48	1.00 V	61	6.22	29.30

- 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	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27deg. C, 69%RH, 991hPa	TESTED BY	Match Tsui

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	224.39	35.45 QP	46.00	-10.55	1.50 H	124	23.82	11.63
2	539.30	32.63 QP	46.00	-13.37	1.50 H	190	11.70	20.93
3	580.12	32.80 QP	46.00	-13.20	1.50 H	58	10.84	21.96
4	675.37	36.24 QP	46.00	-9.76	1.50 H	154	12.65	23.59
5	739.52	32.19 QP	46.00	-13.81	1.50 H	154	6.75	25.44
6	797.84	31.66 QP	46.00	-14.34	1.50 H	190	5.68	25.99
7	933.91	32.04 QP	46.00	-13.96	1.00 H	340	3.37	28.66
8	945.57	31.37 QP	46.00	-14.63	1.00 H	232	2.16	29.21

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	539.30	34.81 QP	46.00	-11.19	1.00 V	322	13.89	20.93
2	560.68	32.89 QP	46.00	-13.11	1.00 V	322	11.45	21.45
3	595.67	33.58 QP	46.00	-12.42	1.00 V	355	11.21	22.37
4	671.48	34.12 QP	46.00	-11.88	1.00 V	322	10.61	23.50
5	751.18	32.19 QP	46.00	-13.81	1.00 V	217	6.40	25.78
6	795.89	31.03 QP	46.00	-14.97	1.50 V	352	5.05	25.98
7	879.48	31.47 QP	46.00	-14.53	1.00 V	322	4.55	26.91
8	914.47	34.31 QP	46.00	-11.69	1.00 V	190	6.55	27.76
9	947.52	35.49 QP	46.00	-10.51	1.50 V	265	6.19	29.30

- 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: TRIPLE 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	2372.00	55.00 PK	74.00	-19.00	1.03 H	236	23.68	31.32
1	2372.00	45.01 AV	54.00	-8.99	1.03 H	236	13.69	31.32
2	2389.00	53.54 PK	74.00	-20.46	1.03 H	126	22.16	31.38
2	2389.00	46.39 AV	54.00	-7.61	1.03 H	126	15.01	31.38
3	*2412.00	108.43 PK			1.03 H	127	76.97	31.46
3	*2412.00	104.73 AV			1.03 H	127	73.27	31.46
4	4824.00	47.16 PK	74.00	-26.84	1.63 H	103	10.03	37.13
4	4824.00	39.48 AV	54.00	-14.52	1.63 H	103	2.35	37.13

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	2372.00	58.58 PK	74.00	-15.42	1.33 V	204	27.26	31.32
1	2372.00	50.98 AV	54.00	-3.02	1.33 V	204	19.66	31.32
2	2389.00	58.43 PK	74.00	-15.57	1.08 V	177	27.05	31.38
2	2389.00	52.01 AV	54.00	-1.99	1.08 V	177	20.63	31.38
3	*2412.00	116.76 PK			1.10 V	199	85.30	31.46
3	*2412.00	112.14 AV			1.10 V	199	80.68	31.46
4	3216.00	51.86 PK	96.76	-44.90	1.07 V	342	18.75	33.11
4	3216.00	48.68 AV	92.14	-43.46	1.07 V	342	15.57	33.11
5	4824.00	53.76 PK	74.00	-20.24	1.04 V	133	16.63	37.13
5	4824.00	51.73 AV	54.00	-2.27	1.04 V	133	14.60	37.13
6	7236.00	56.53 PK	96.76	-40.23	1.24 V	168	11.99	44.54
6	7236.00	49.38 AV	92.14	-42.76	1.24 V	168	4.84	44.54
7	9648.00	57.73 PK	96.76	-39.03	1.41 V	145	10.16	47.57
7	9648.00	47.99 AV	92.14	-44.15	1.41 V	145	0.42	47.57

- 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.

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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	54.60 PK	74.00	-19.40	1.24 H	133	23.21	31.39
1	2390.00	45.60 AV	54.00	-8.40	1.24 H	133	14.21	31.39
2	*2437.00	110.05 PK			1.24 H	133	78.51	31.54
2	*2437.00	106.43 AV			1.24 H	133	74.89	31.54
3	2483.50	55.35 PK	74.00	-18.65	1.22 H	133	23.65	31.70
3	2483.50	46.28 AV	54.00	-7.72	1.22 H	133	14.58	31.70
4	4874.00	48.34 PK	74.00	-25.66	1.52 H	164	11.05	37.29
4	4874.00	41.29 AV	54.00	-12.71	1.52 H	164	4.00	37.29
5	7311.00	58.37 PK	74.00	-15.63	1.52 H	141	13.59	44.79
5	7311.00	50.18 AV	54.00	-3.82	1.52 H	141	5.40	44.79

- 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	57.11 PK	74.00	-16.89	1.49 V	13	25.72	31.39
1	2390.00	47.54 AV	54.00	-6.46	1.49 V	13	16.15	31.39
2	*2437.00	118.12 PK			1.41 V	356	86.58	31.54
2	*2437.00	114.28 AV			1.41 V	356	82.74	31.54
3	2483.50	57.57 PK	74.00	-16.43	1.45 V	358	25.87	31.70
3	2483.50	48.51 AV	54.00	-5.49	1.45 V	358	16.81	31.70
4	3248.00	51.51 PK	74.00	-22.49	1.12 V	324	18.32	33.19
4	3248.00	48.24 AV	54.00	-5.76	1.12 V	324	15.05	33.19
5	4874.00	53.02 PK	74.00	-20.98	1.17 V	0	15.73	37.29
5	4874.00	49.36 AV	54.00	-4.64	1.17 V	0	12.07	37.29
6	7311.00	59.26 PK	74.00	-14.74	1.09 V	161	14.48	44.79
6	7311.00	52.87 AV	54.00	-1.13	1.09 V	161	8.09	44.79
7	9748.00	59.60 PK	98.12	-38.52	1.01 V	187	11.78	47.82
7	9748.00	52.44 AV	94.28	-41.84	1.01 V	187	4.62	47.82

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	109.19 PK			1.06 H	132	77.57	31.62
1	*2462.00	105.77 AV			1.06 H	132	74.15	31.62
2	2483.50	51.64 PK	74.00	-22.36	1.05 H	245	19.94	31.70
2	2483.50	43.35 AV	54.00	-10.65	1.05 H	245	11.66	31.70
3	2487.00	54.75 PK	74.00	-19.25	1.16 H	265	23.04	31.71
3	2487.00	46.66 AV	54.00	-7.34	1.16 H	265	14.95	31.71
4	2500.00	54.72 PK	74.00	-19.28	1.12 H	252	22.97	31.75
4	2500.00	46.58 AV	54.00	-7.42	1.12 H	252	14.83	31.75
5	4924.00	48.29 PK	74.00	-25.71	1.47 H	131	10.85	37.44
5	4924.00	41.31 AV	54.00	-12.69	1.47 H	131	3.87	37.44
6	7386.00	56.77 PK	74.00	-17.23	1.47 H	199	11.87	44.90
6	7386.00	49.16 AV	54.00	-4.84	1.47 H	199	4.26	44.90

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

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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	117.10 PK			1.25 V	238	85.48	31.62
1	*2462.00	112.46 AV			1.25 V	238	80.84	31.62
2	2483.50	58.78 PK	74.00	-15.22	1.00 V	233	27.08	31.70
2	2483.50	50.22 AV	54.00	-3.78	1.00 V	233	18.52	31.70
3	2487.00	61.68 PK	74.00	-12.32	1.09 V	256	29.97	31.71
3	2487.00	52.75 AV	54.00	-1.25	1.09 V	256	21.04	31.71
4	2500.00	61.61 PK	74.00	-12.39	1.01 V	240	29.86	31.75
4	2500.00	52.20 AV	54.00	-1.80	1.01 V	240	20.45	31.75
5	3282.00	51.76 PK	74.00	-22.24	1.06 V	335	18.49	33.27
5	3282.00	48.82 AV	54.00	-5.18	1.06 V	335	15.55	33.27
6	4924.00	52.06 PK	74.00	-21.94	1.14 V	155	14.62	37.44
6	4924.00	50.86 AV	54.00	-3.14	1.14 V	155	13.42	37.44
7	7386.00	58.30 PK	74.00	-15.70	1.35 V	126	13.40	44.90
7	7386.00	52.30 AV	54.00	-1.70	1.35 V	126	7.40	44.90
8	9848.00	60.20 PK	97.10	-36.9	1.32 V	143	12.14	48.06
8	9848.00	53.87 AV	92.46	-38.59	1.32 V	14	5.81	48.06

- 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: TRIPLE 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	61.08 PK	74.00	-12.92	1.01 H	217	29.69	31.39
1	2390.00	47.57 AV	54.00	-6.43	1.01 H	217	16.18	31.39
2	*2412.00	110.84 PK			1.02 H	213	79.38	31.46
2	*2412.00	100.35 AV			1.02 H	213	68.89	31.46
3	3216.00	46.52 PK	74.00	-27.48	1.62 H	321	13.41	33.11
3	3216.00	41.34 AV	54.00	-12.66	1.62 H	321	8.23	33.11
4	4824.00	45.67 PK	74.00	-28.33	1.34 H	241	8.54	37.13
4	4824.00	33.15 AV	54.00	-20.85	1.34 H	241	-3.98	37.13

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	71.58 PK	74.00	-2.42	1.29 V	232	40.19	31.39
1	2390.00	52.03 AV	54.00	-1.97	1.29 V	232	20.64	31.39
2	*2412.00	115.74 PK			1.30 V	235	84.28	31.46
2	*2412.00	105.34 AV			1.30 V	235	73.88	31.46
3	3216.00	53.08 PK	74.00	-20.92	1.33 V	319	19.97	33.11
3	3216.00	50.32 AV	54.00	-3.68	1.33 V	319	17.21	33.11
4	4824.00	46.52 PK	74.00	-27.48	1.26 V	321	9.39	37.13
4	4824.00	34.59 AV	54.00	-19.41	1.26 V	321	-2.54	37.13
5	7236.00	57.15 PK	74.00	-16.85	1.36 V	167	12.61	44.54
5	7236.00	43.76 AV	54.00	-10.24	1.36 V	167	-0.78	44.54

- 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	55.59 PK	74.00	-18.41	1.04 H	243	24.20	31.39
1	2390.00	45.52 AV	54.00	-8.48	1.04 H	243	14.13	31.39
2	*2437.00	111.16 PK			1.06 H	243	79.62	31.54
2	*2437.00	101.34 AV			1.06 H	243	69.80	31.54
3	2483.50	57.37 PK	74.00	-16.63	1.10 H	244	25.67	31.70
3	2483.50	46.94 AV	54.00	-7.06	1.10 H	244	15.24	31.70
4	4874.00	45.54 PK	74.00	-28.46	1.07 H	53	8.25	37.29
4	4874.00	33.10 AV	54.00	-20.90	1.07 H	53	-4.19	37.29

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	60.77 PK	74.00	-13.23	1.12 V	170	29.38	31.39
1	2390.00	50.58 AV	54.00	-3.42	1.12 V	170	19.19	31.39
2	*2437.00	117.83 PK			1.06 V	218	86.29	31.54
2	*2437.00	107.41 AV			1.06 V	218	75.87	31.54
3	2483.50	61.62 PK	74.00	-12.38	1.06 V	116	29.92	31.70
3	2483.50	51.58 AV	54.00	-2.42	1.06 V	116	19.88	31.70
4	3248.00	53.16 PK	74.00	-20.84	1.45 V	316	19.97	33.19
4	3248.00	50.40 AV	54.00	-3.60	1.45 V	316	17.21	33.19
5	4874.00	51.28 PK	74.00	-22.72	1.16 V	135	13.99	37.29
5	4874.00	37.30 AV	54.00	-16.70	1.16 V	135	0.01	37.29
6	7311.00	58.79 PK	74.00	-15.21	1.24 V	170	14.01	44.79
6	7311.00	45.40 AV	54.00	-8.60	1.24 V	170	0.62	44.79

- 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	109.47 PK			1.26 H	106	77.85	31.62
1	*2462.00	99.72 AV			1.26 H	106	68.10	31.62
2	2483.50	65.32 PK	74.00	-8.68	1.18 H	105	33.62	31.70
2	2483.50	48.45 AV	54.00	-5.55	1.18 H	105	16.75	31.70
3	4924.00	45.31 PK	74.00	-28.69	1.28 H	211	7.87	37.44
3	4924.00	33.16 AV	54.00	-20.84	1.28 H	211	-4.28	37.44

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	114.05 PK			1.01 V	232	82.43	31.62
1	*2462.00	105.01 AV			1.01 V	232	73.39	31.62
2	2483.50	69.32 PK	74.00	-4.68	1.24 V	98	37.62	31.70
2	2483.50	52.25 AV	54.00	-1.75	1.24 V	98	20.55	31.70
3	3282.00	52.89 PK	94.05	-41.16	1.36 V	307	19.62	33.27
3	3282.00	50.10 AV	85.01	-34.91	1.36 V	307	16.83	33.27
4	4924.00	46.11 PK	74.00	-27.89	1.24 V	24	8.67	37.44
4	4924.00	34.10 AV	54.00	-19.90	1.24 V	24	-3.34	37.44
5	7386.00	57.08 PK	74.00	-16.92	1.32 V	187	12.18	44.90
5	7386.00	43.56 AV	54.00	-10.44	1.32 V	187	-1.34	44.90

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



DRAFT 802.11n (20MHz) OFDM MODULATION: TRIPLE 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	60.62 PK	74.00	-13.38	1.76 H	113	29.23	31.39
1	2390.00	47.42 AV	54.00	-6.58	1.76 H	113	16.03	31.39
2	*2412.00	107.05 PK			1.80 H	106	75.59	31.46
2	*2412.00	98.00 AV			1.80 H	106	66.54	31.46
3	3216.00	45.64 PK	87.05	-41.41	1.33 H	225	12.53	33.11
3	3216.00	39.50 AV	78.00	-38.50	1.33 H	225	6.39	33.11

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	72.68 PK	74.00	-1.32	1.05 V	205	41.29	31.39
1	2390.00	52.67 AV	54.00	-1.33	1.05 V	205	21.28	31.39
2	*2412.00	113.77 PK			1.07 V	204	82.31	31.46
2	*2412.00	103.85 AV			1.07 V	204	72.39	31.46
3	3216.00	50.73 PK	93.77	-43.04	1.12 V	337	17.62	33.11
3	3216.00	47.52 AV	83.85	-36.33	1.12 V	337	14.41	33.11
4	4824.00	46.94 PK	74.00	-27.06	1.08 V	215	9.81	37.13
4	4824.00	34.15 AV	54.00	-19.85	1.08 V	215	-2.98	37.13

- 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	58.06 PK	74.00	-15.94	1.46 H	110	26.67	31.39
1	2390.00	48.98 AV	54.00	-5.02	1.46 H	110	17.59	31.39
2	*2437.00	109.79 PK			1.47 H	101	78.25	31.54
2	*2437.00	100.64 AV			1.47 H	101	69.10	31.54
3	2483.50	58.17 PK	74.00	-15.83	1.47 H	103	26.47	31.70
3	2483.50	48.42 AV	54.00	-5.58	1.47 H	103	16.72	31.70
4	3248.00	47.77 PK	89.79	-42.02	1.71 H	325	14.58	33.19
4	3248.00	40.86 AV	80.64	-39.78	1.71 H	325	7.67	33.19

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	60.73 PK	74.00	-13.27	1.08 V	175	29.34	31.39
1	2390.00	51.42 AV	54.00	-2.58	1.08 V	175	20.03	31.39
2	*2437.00	116.94 PK			1.02 V	227	85.40	31.54
2	*2437.00	108.14 AV			1.02 V	227	76.60	31.54
3	2483.50	60.42 PK	74.00	-13.58	1.02 V	230	28.72	31.70
3	2483.50	51.13 AV	54.00	-2.87	1.02 V	230	19.43	31.70
4	3248.00	52.67 PK	96.94	-44.27	1.13 V	325	19.49	33.19
4	3248.00	49.79 AV	88.14	-38.35	1.13 V	325	16.61	33.19
5	4874.00	48.04 PK	74.00	-25.96	1.25 V	160	10.75	37.29
5	4874.00	35.47 AV	54.00	-18.53	1.25 V	160	-1.82	37.29
6	7311.00	57.27 PK	74.00	-16.73	1.17 V	169	12.49	44.79
6	7311.00	43.77 AV	54.00	-10.23	1.17 V	169	-1.01	44.79

- 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	107.15 PK			1.72 H	109	75.53	31.62
1	*2462.00	97.86 AV			1.72 H	109	66.24	31.62
2	2483.50	59.03 PK	74.00	-14.97	1.72 H	109	27.33	31.70
2	2483.50	47.89 AV	54.00	-6.11	1.72 H	109	16.19	31.70
3	3282.00	44.89 PK	87.15	-42.26	1.45 H	237	11.62	33.27
3	3282.00	38.67 AV	77.86	-39.19	1.45 H	237	5.40	33.27

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	113.65 PK			1.27 V	263	82.03	31.62
1	*2462.00	103.72 AV			1.27 V	263	72.10	31.62
2	2483.50	71.13 PK	74.00	-2.87	1.01 V	262	39.43	31.70
2	2483.50	52.73 AV	54.00	-1.27	1.01 V	262	21.03	31.70
3	3282.00	50.46 PK	93.65	-43.19	1.10 V	246	17.19	33.27
3	3282.00	47.38 AV	83.72	-36.34	1.10 V	246	14.11	33.27
4	4924.00	46.00 PK	74.00	-28.00	1.27 V	121	8.56	37.44
4	4924.00	33.12 AV	54.00	-20.88	1.27 V	121	-4.32	37.44

- 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: TRIPLE 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	27deg. C, 69%RH, 991hPa	TESTED BY	Match Tsui

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	56.80 PK	74.00	-17.20	1.00 H	144	25.41	31.39
1	2390.00	46.47 AV	54.00	-7.53	1.00 H	144	15.08	31.39
2	*2422.00	99.80 PK			1.22 H	144	68.31	31.49
2	*2422.00	90.89 AV			1.22 H	144	59.40	31.49
3	3229.00	45.97 PK	79.80	-33.83	1.34 H	217	12.83	33.14
3	3229.00	39.69 AV	70.89	-31.20	1.34 H	217	6.55	33.14
4	4844.00	46.07 PK	74.00	-27.93	1.04 H	360	8.88	37.19
4	4844.00	33.74 AV	54.00	-20.26	1.04 H	360	-3.45	37.19

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	69.33 PK	74.00	-4.67	1.12 V	307	37.94	31.39
1	2390.00	52.79 AV	54.00	-1.21	1.12 V	307	21.40	31.39
2	*2422.00	107.50 PK			1.12 V	205	76.01	31.49
2	*2422.00	98.31 AV			1.12 V	205	66.82	31.49
3	3229.00	50.20 PK	87.50	-37.30	1.26 V	345	17.06	33.14
3	3229.00	46.72 AV	78.31	-31.59	1.26 V	345	13.58	33.14
4	4844.00	45.79 PK	74.00	-28.21	1.12 V	0	8.60	37.19
4	4844.00	32.96 AV	54.00	-21.04	1.12 V	0	-4.23	37.19

- 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	27deg. C, 69%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.41 PK	74.00	-16.59	1.04 H	213	26.02	31.39
1	2390.00	46.52 AV	54.00	-7.48	1.04 H	213	15.13	31.39
2	*2437.00	103.55 PK			1.04 H	213	72.01	31.54
2	*2437.00	94.87 AV			1.04 H	213	63.33	31.54
3	2483.50	55.68 PK	74.00	-18.32	1.03 H	213	23.98	31.70
3	2483.50	46.99 AV	54.00	-7.01	1.03 H	213	15.29	31.70
4	3249.00	47.98 PK	83.55	-35.57	1.29 H	217	14.79	33.19
4	3249.00	42.91 AV	74.87	-31.96	1.29 H	217	9.72	33.19
5	4874.00	46.90 PK	74.00	-27.10	1.01 H	0	9.61	37.29
5	4874.00	33.85 AV	54.00	-20.15	1.01 H	0	-3.44	37.29

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	66.03 PK	74.00	-7.97	1.02 V	120	34.64	31.39
1	2390.00	51.41 AV	54.00	-2.59	1.02 V	120	20.02	31.39
2	*2437.00	110.90 PK			1.02 V	120	79.36	31.54
2	*2437.00	101.72 AV			1.02 V	120	70.18	31.54
3	2483.50	60.70 PK	74.00	-13.30	1.00 V	119	29.00	31.70
3	2483.50	51.93 AV	54.00	-2.07	1.00 V	119	20.23	31.70
4	3249.00	52.05 PK	90.90	-38.85	1.10 V	332	18.86	33.19
4	3249.00	49.56 AV	81.72	-32.16	1.10 V	332	16.37	33.19
5	4874.00	46.90 PK	74.00	-27.10	1.20 V	360	9.61	37.29
5	4874.00	33.85 AV	54.00	-20.15	1.20 V	360	-3.44	37.29

- 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 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	60.61 PK	74.00	-13.39	1.57 H	106	29.22	31.39
1	2390.00	45.84 AV	54.00	-8.16	1.57 H	106	14.45	31.39
2	*2452.00	100.08 PK			1.54 H	104	68.49	31.59
2	*2452.00	91.06 AV			1.54 H	104	59.47	31.59
3	3269.00	46.12 PK	80.08	-33.96	1.33 H	213	12.88	33.24
3	3269.00	40.20 AV	71.06	-30.86	1.33 H	213	6.96	33.24

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	107.95 PK			1.04 V	117	76.36	31.59
1	*2452.00	98.94 AV			1.04 V	117	67.35	31.59
2	2483.50	66.52 PK	74.00	-7.48	1.02 V	117	34.82	31.70
2	2483.50	52.20 AV	54.00	-1.80	1.02 V	117	20.50	31.70
3	3269.00	48.92 PK	87.95	-39.03	1.00 V	201	15.68	33.24
3	3269.00	45.29 AV	78.94	-33.65	1.00 V	201	12.05	33.24
4	4904.00	47.01 PK	74.00	-26.99	1.00 V	360	9.63	37.38
4	4904.00	33.96 AV	54.00	-20.04	1.00 V	360	-3.42	37.38

- 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 DSSS MODULATION: DUAL TX:

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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	54.44 PK	74.00	-19.56	1.20 H	311	23.05	31.39
1	2390.00	45.51 AV	54.00	-8.49	1.20 H	311	14.12	31.39
2	*2437.00	106.21 PK			1.23 H	312	74.67	31.54
2	*2437.00	103.08 AV			1.23 H	312	71.54	31.54
3	2483.50	55.06 PK	74.00	-18.94	1.22 H	330	23.36	31.70
3	2483.50	45.48 AV	54.00	-8.52	1.22 H	330	13.78	31.70
4	4874.00	48.18 PK	74.00	-25.82	1.24 H	133	10.89	37.29
4	4874.00	41.15 AV	54.00	-12.85	1.24 H	133	3.86	37.29
5	7311.00	57.29 PK	74.00	-16.71	1.58 H	139	12.50	44.79
5	7311.00	48.60 AV	54.00	-5.40	1.58 H	139	3.81	44.79

- 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	56.82 PK	74.00	-17.18	1.43 V	7	25.43	31.39
1	2390.00	47.37 AV	54.00	-6.63	1.43 V	7	15.98	31.39
2	*2437.00	116.07 PK			1.56 V	23	84.53	31.54
2	*2437.00	112.14 AV			1.56v	23	80.60	31.54
3	2483.50	56.82 PK	74.00	-17.18	1.43 V	11	25.12	31.70
3	2483.50	48.24 AV	54.00	-5.76	1.43 V	11	16.54	31.70
4	3248.00	51.08 PK	96.07	-44.99	1.13 V	298	17.89	33.19
4	3248.00	48.16 AV	92.14	-43.98	1.13 V	298	14.97	33.19
5	4874.00	52.97 PK	74.00	-21.03	1.17 V	149	15.68	37.29
5	4874.00	49.19 AV	54.00	-4.81	1.17 V	149	11.90	37.29
6	7311.00	57.55 PK	74.00	-16.45	1.16 V	255	12.77	44.79
6	7311.00	49.86 AV	54.00	-4.14	1.16 V	255	5.08	44.79
7	9748.00	58.58 PK	96.07	-37.49	1.25 V	115	10.76	47.82
7	9748.00	50.25 AV	92.14	-41.89	1.25 V	115	2.43	47.82

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

802.11g OFDM MODULATION: DUAL TX:

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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	105.07 PK			1.00 H	200	73.45	31.62
1	*2462.00	95.51 AV			1.00 H	200	63.89	31.62
2	2483.50	63.80 PK	74.00	-10.20	1.01 H	206	32.10	31.70
2	2483.50	46.94 AV	54.00	-7.06	1.01 H	206	15.24	31.70
3	4924.00	45.27 PK	74.00	-28.73	1.22 H	156	7.83	37.44
3	4924.00	33.10 AV	54.00	-20.90	1.22 H	156	-4.34	37.44

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	113.29 PK			1.25 V	262	81.67	31.62
1	*2462.00	104.12 AV			1.25 V	262	72.50	31.62
2	2483.50	68.77 PK	74.00	-5.23	1.06 V	183	37.07	31.70
2	2483.50	51.58 AV	54.00	-2.42	1.06 V	183	19.88	31.70
3	3282.00	51.64 PK	93.29	-41.65	1.33 V	218	18.37	33.27
3	3282.00	49.53 AV	84.12	-34.59	1.33 V	218	16.26	33.27
4	4924.00	45.20 PK	74.00	-28.80	1.06 V	146	7.76	37.44
4	4924.00	33.05 AV	54.00	-20.95	1.06 V	146	-4.39	37.44
5	7386.00	53.84 PK	93.29	-39.45	1.06 V	25	8.94	44.90
5	7386.00	41.24 AV	84.12	-42.88	1.06 V	25	-3.66	44.90

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

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	105.29 PK			1.79 H	111	73.67	31.62
1	*2462.00	96.10 AV			1.79 H	111	64.48	31.62
2	2483.50	58.24 PK	74.00	-15.76	1.75 H	113	26.54	31.70
2	2483.50	46.47 AV	54.00	-7.53	1.75 H	113	14.77	31.70
3	3282.00	43.07 PK	85.29	-42.22	1.02 H	64	9.80	33.27
3	3282.00	37.67 AV	76.10	-38.43	1.02 H	64	4.40	33.27

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	111.12 PK			1.02 V	216	79.50	31.62
1	*2462.00	102.32 AV			1.02 V	216	70.70	31.62
2	2483.50	68.47 PK	74.00	-5.53	1.00 V	243	36.77	31.70
2	2483.50	49.82 AV	54.00	-4.18	1.00 V	243	18.12	31.70
3	3282.00	48.37 PK	91.12	-42.75	1.16 V	252	15.10	33.27
3	3282.00	45.56 AV	82.32	-36.76	1.16 V	252	12.29	33.27
4	4924.00	45.92 PK	74.00	-28.08	1.16 V	157	8.48	37.44
4	4924.00	33.04 AV	54.00	-20.96	1.16 V	157	-4.40	37.44

- 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	28deg. C, 67%RH, 991hPa	TESTED BY	Lori Chiu

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	55.63 PK	74.00	-18.37	1.23 H	234	24.24	31.39
1	2390.00	45.09 AV	54.00	-8.91	1.23 H	234	13.70	31.39
2	*2422.00	97.25 PK			1.23 H	232	65.76	31.49
2	*2422.00	87.77 AV			1.23 H	232	56.28	31.49
3	3229.00	44.77 PK	77.25	-32.48	1.27 H	114	11.63	33.14
3	3229.00	38.59 AV	67.77	-29.18	1.27 H	114	5.45	33.14
4	4844.00	46.00 PK	74.00	-28.00	1.23 H	233	8.81	37.19
4	4844.00	32.86 AV	54.00	-21.14	1.23 H	233	-4.33	37.19

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	68.15 PK	74.00	-5.85	1.03 V	264	36.76	31.39
1	2390.00	50.47 AV	54.00	-3.53	1.03 V	264	19.08	31.39
2	*2422.00	105.56 PK			1.07 V	182	74.07	31.49
2	*2422.00	96.13 AV			1.07 V	182	64.64	31.49
3	3229.00	49.34 PK	85.56	-36.22	1.14 V	338	16.20	33.14
3	3229.00	45.42 AV	76.13	-30.71	1.14 V	338	12.28	33.14
4	4844.00	45.18 PK	74.00	-28.82	1.07 V	321	7.99	37.19
4	4844.00	32.64 AV	54.00	-21.36	1.07 V	321	-4.55	37.19

- 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.

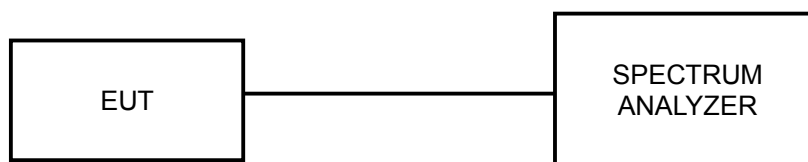
4.3.3 TEST PROCEDURE

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.



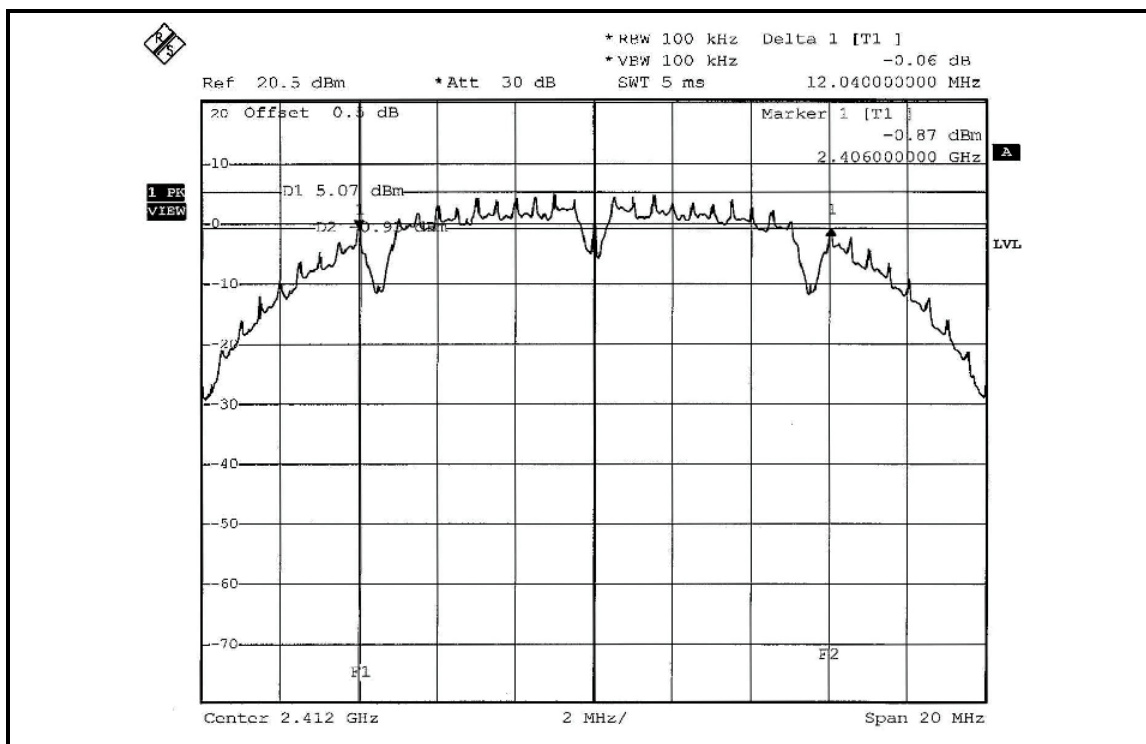
4.3.7 TEST RESULTS

802.11b DSSS MODULATION: TRIPLE TX:

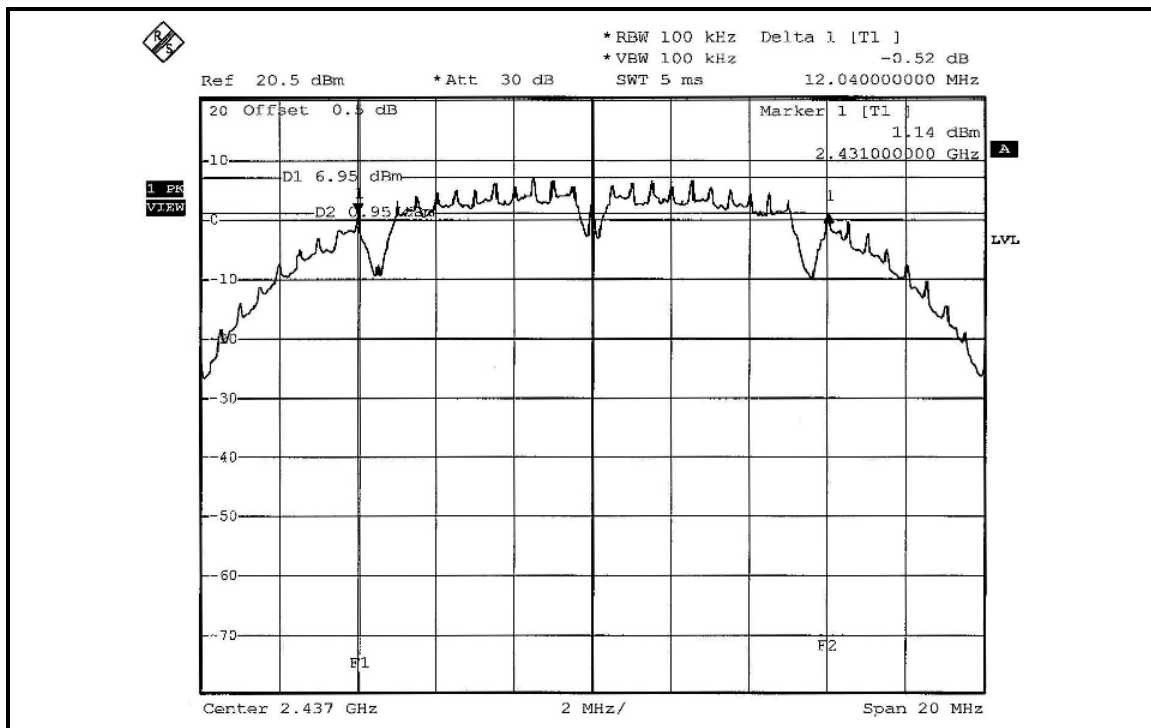
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	28deg.C, 67%RH, 991hPa
TESTED BY	Lori Chiu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	12.04	12.00	12.00	0.5	PASS
6	2437	12.04	12.04	12.48	0.5	PASS
11	2462	12.08	12.04	12.00	0.5	PASS

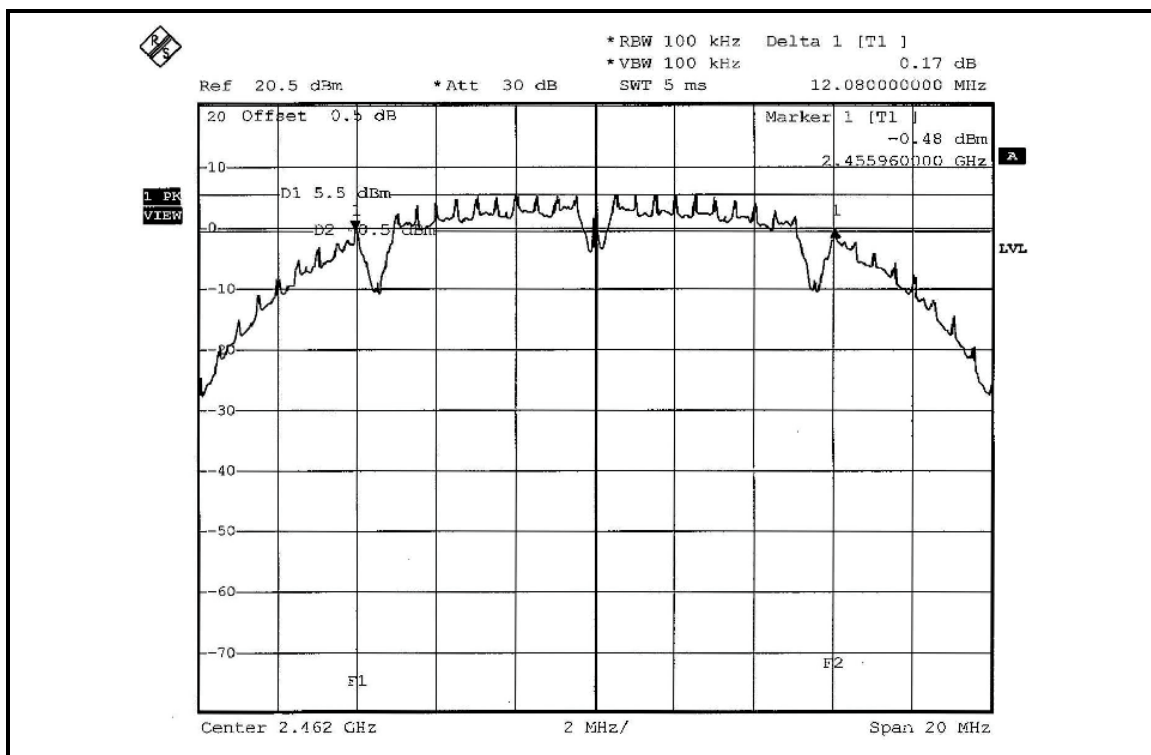
FOR CHAIN 0: CH 1



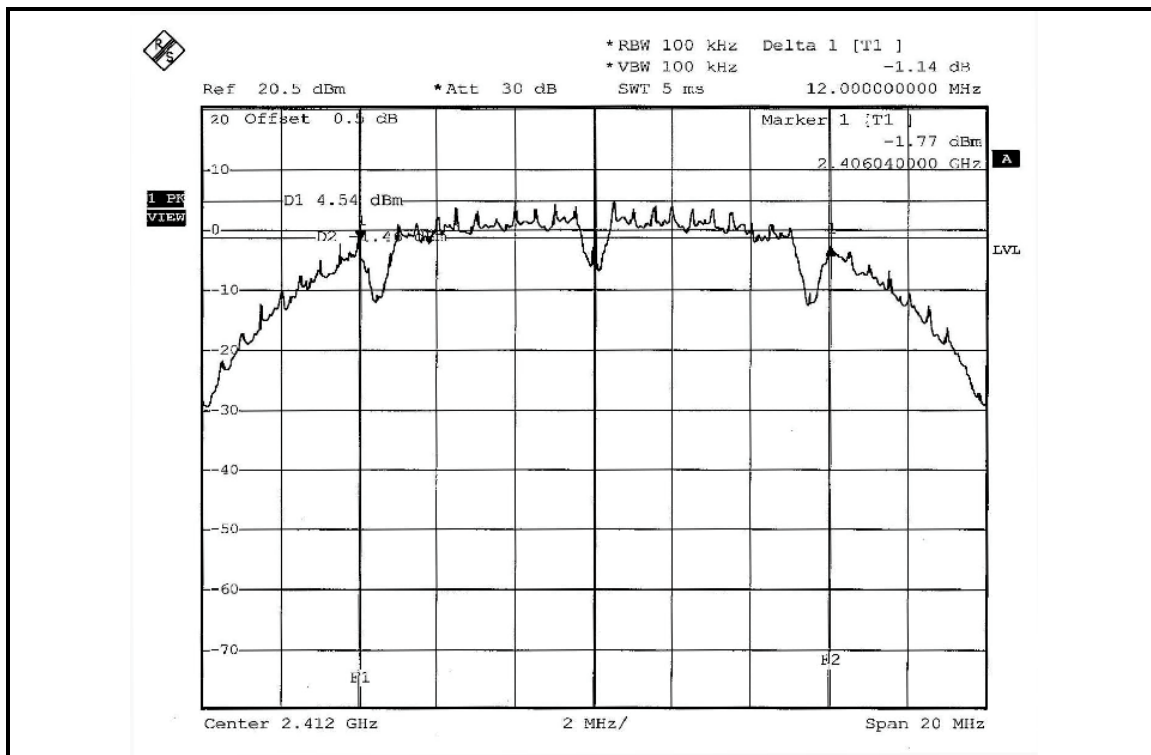
CH 6



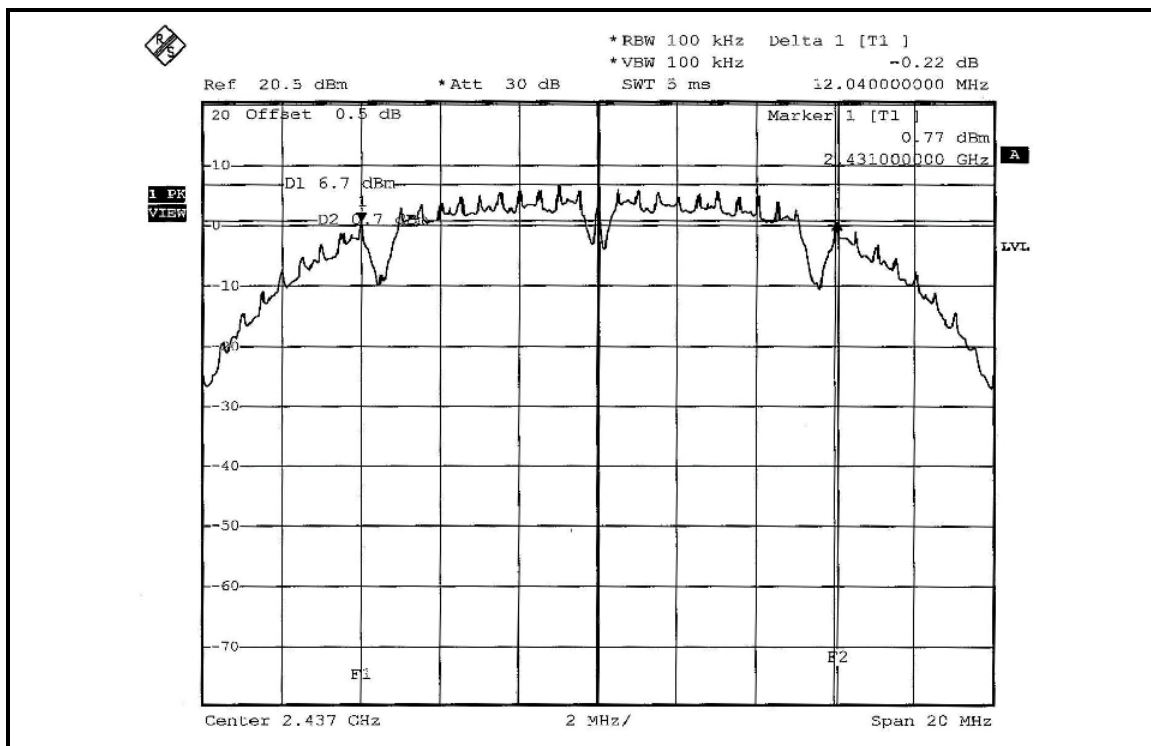
CH 11



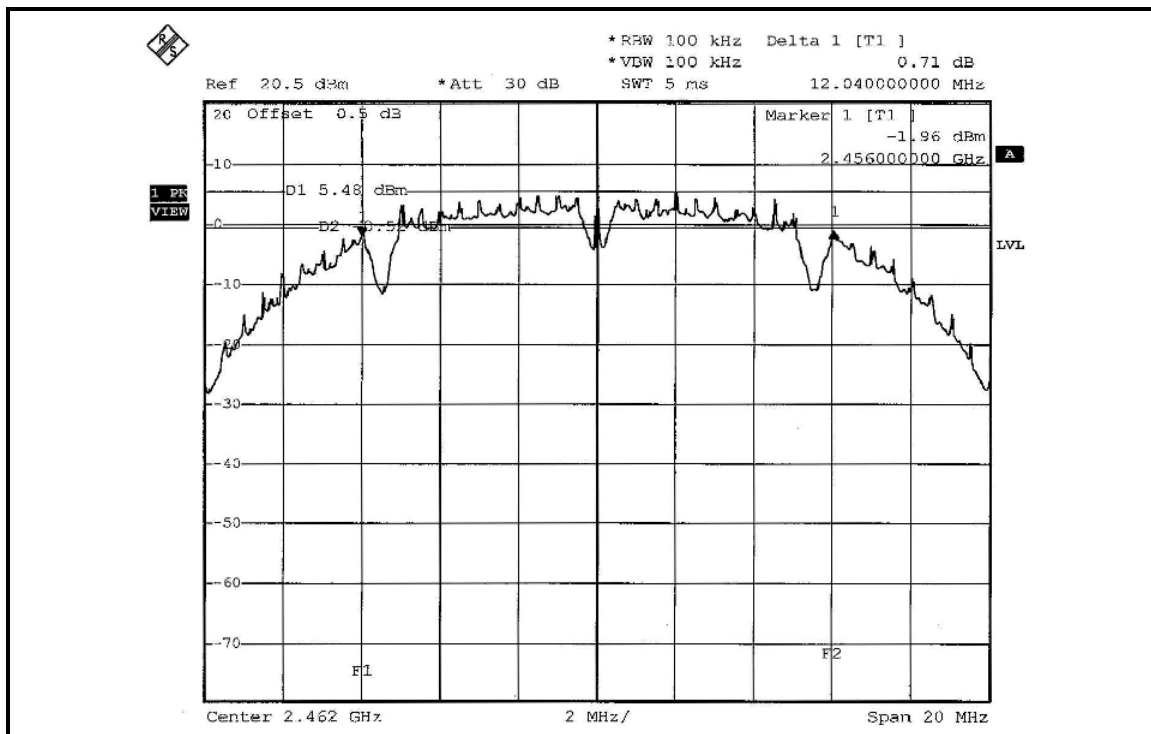
FOR CHAIN 1: CH 1



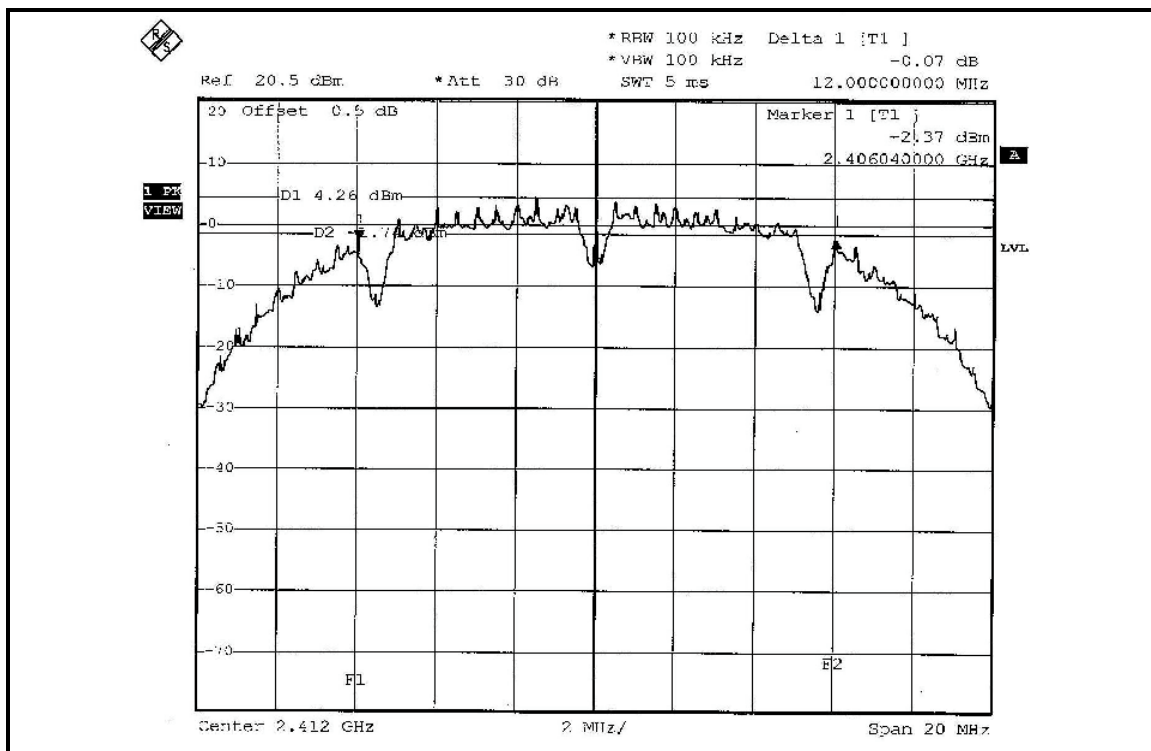
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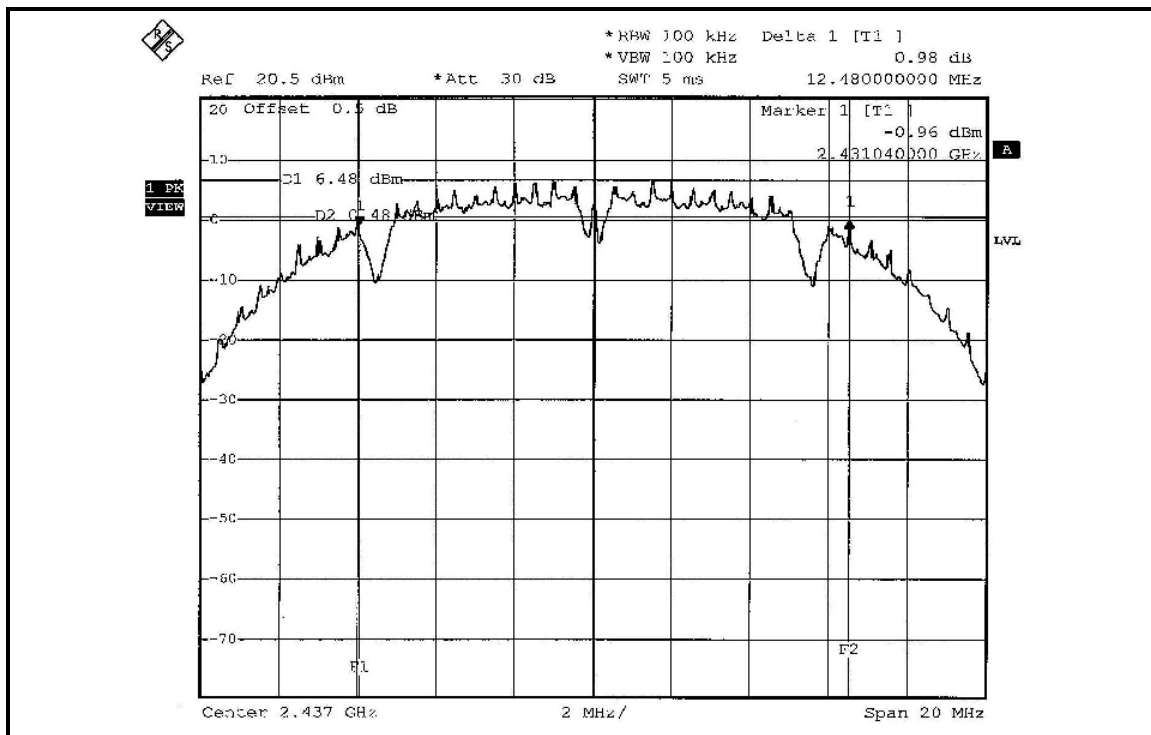
CH 11



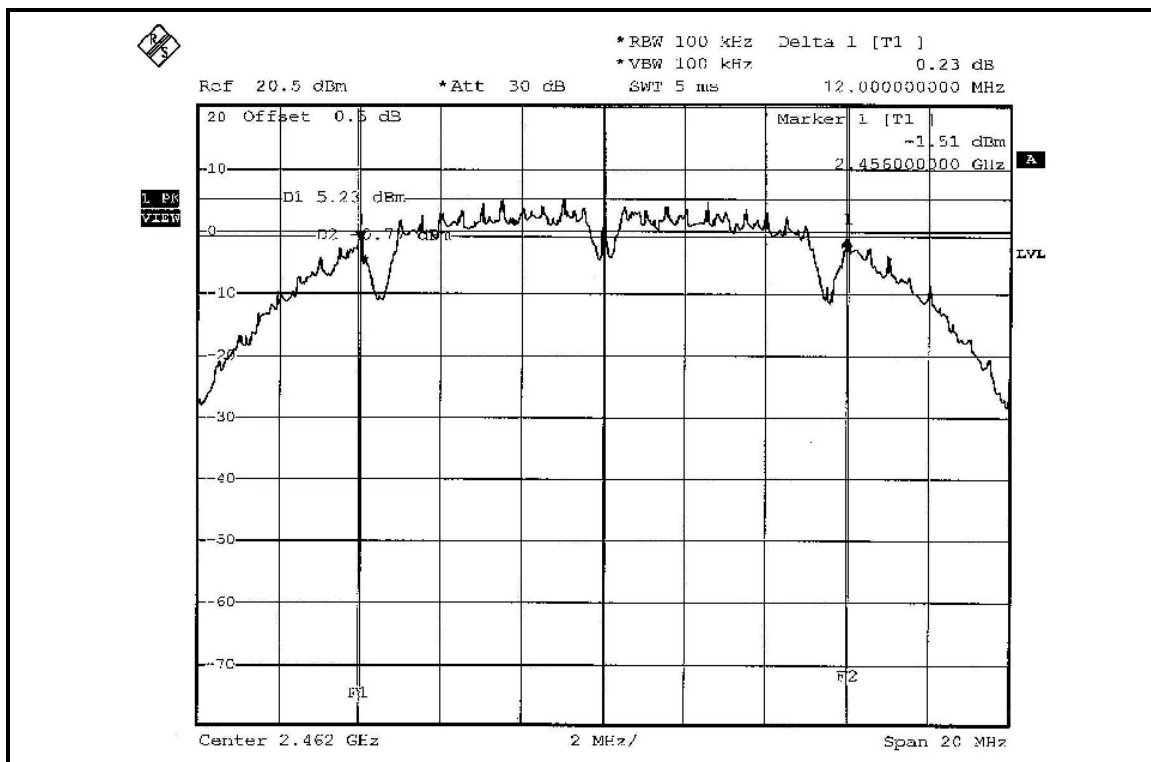
FOR CHAIN 2: CH 1



CH 6



CH 11

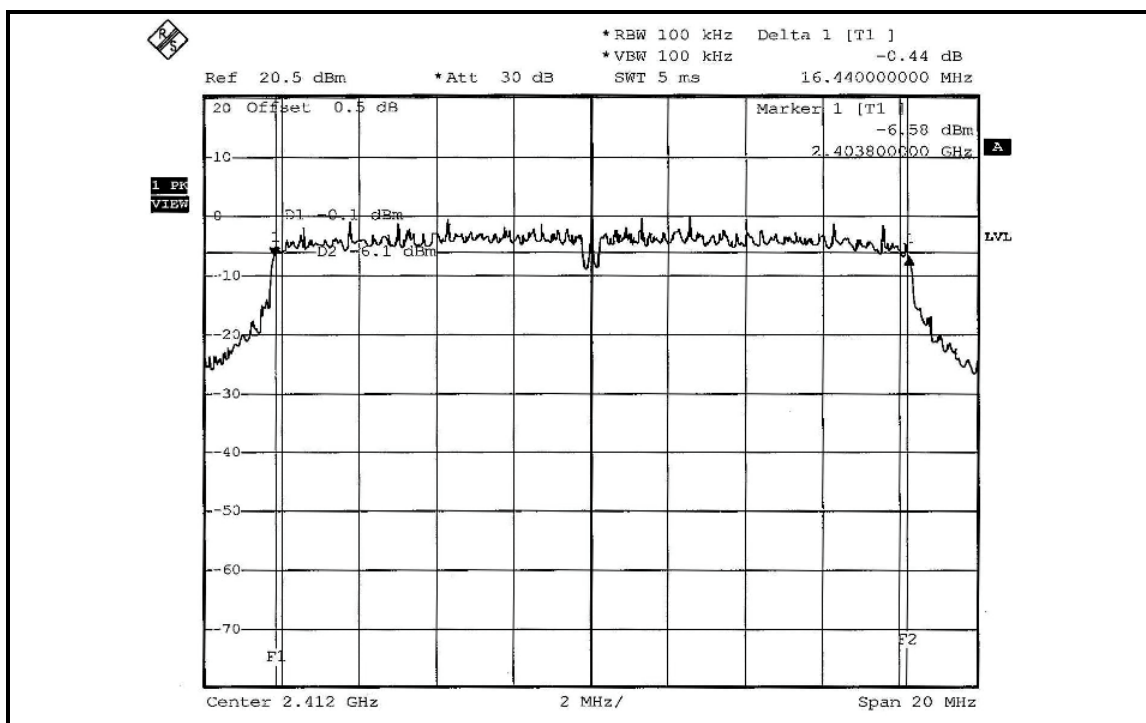


802.11g OFDM MODULATION: TRIPLE TX:

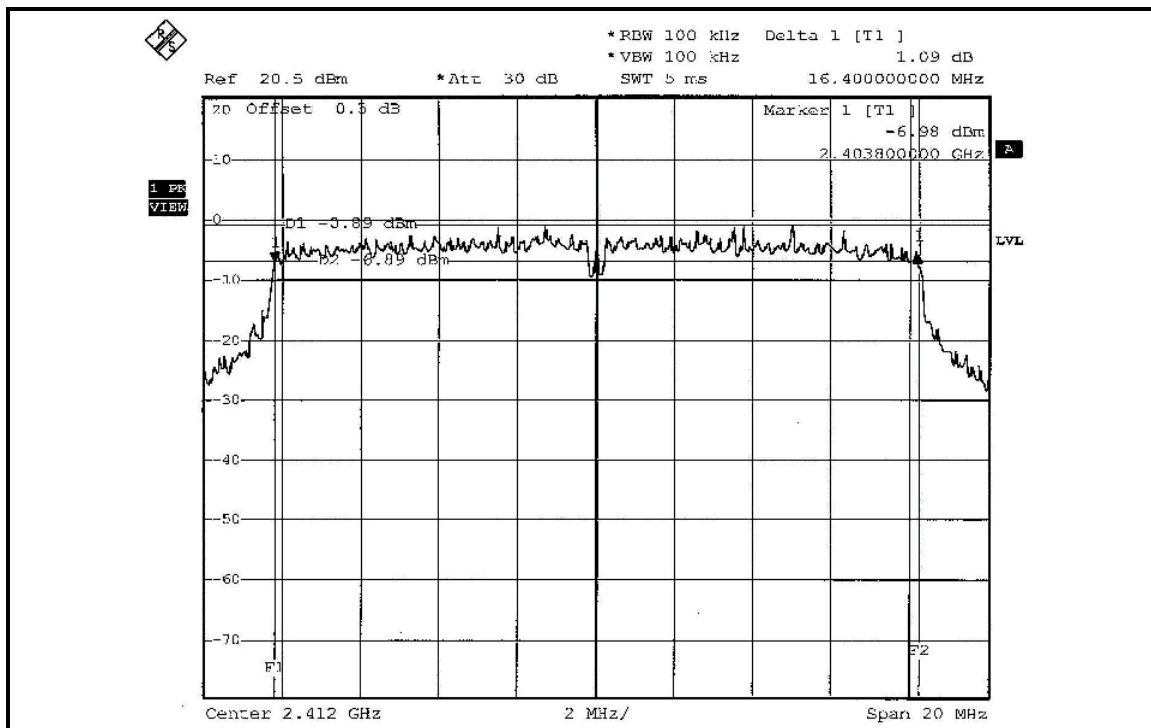
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	28deg.C, 67%RH, 991hPa
TESTED BY	Lori Chiu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	16.44	16.40	16.44	0.5	PASS
6	2437	16.40	16.40	16.40	0.5	PASS
11	2462	16.40	16.40	16.44	0.5	PASS

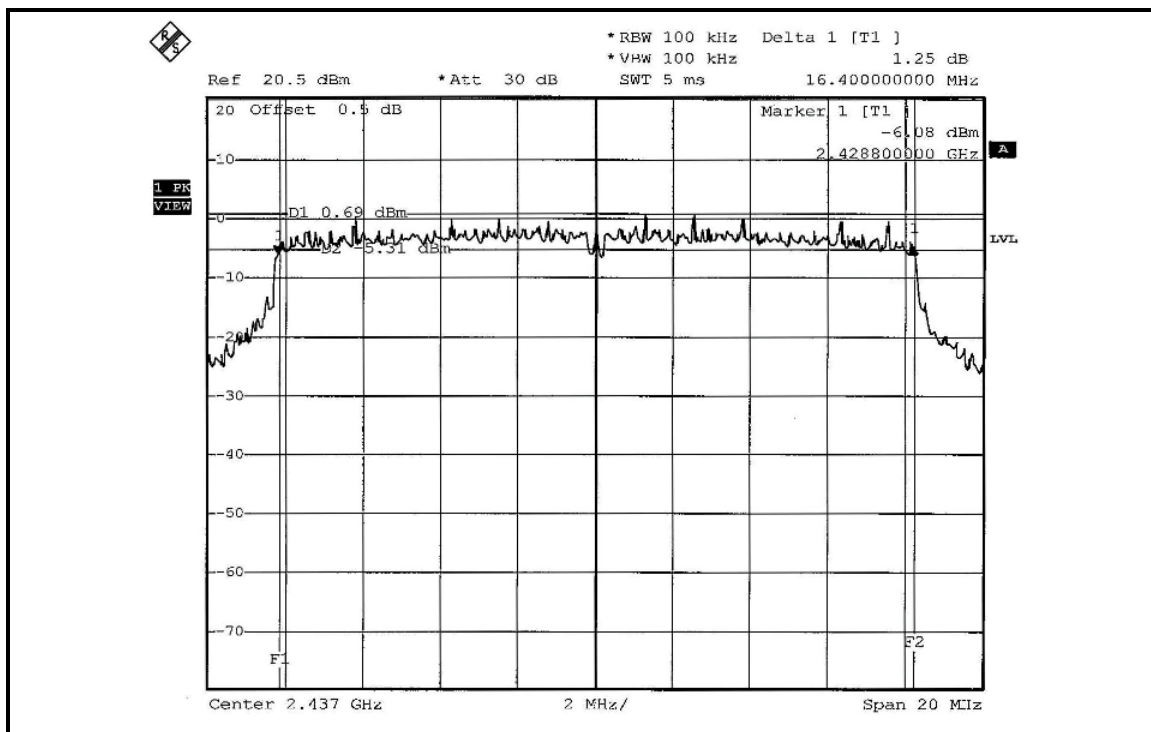
FOR CHAIN 0: CH 1



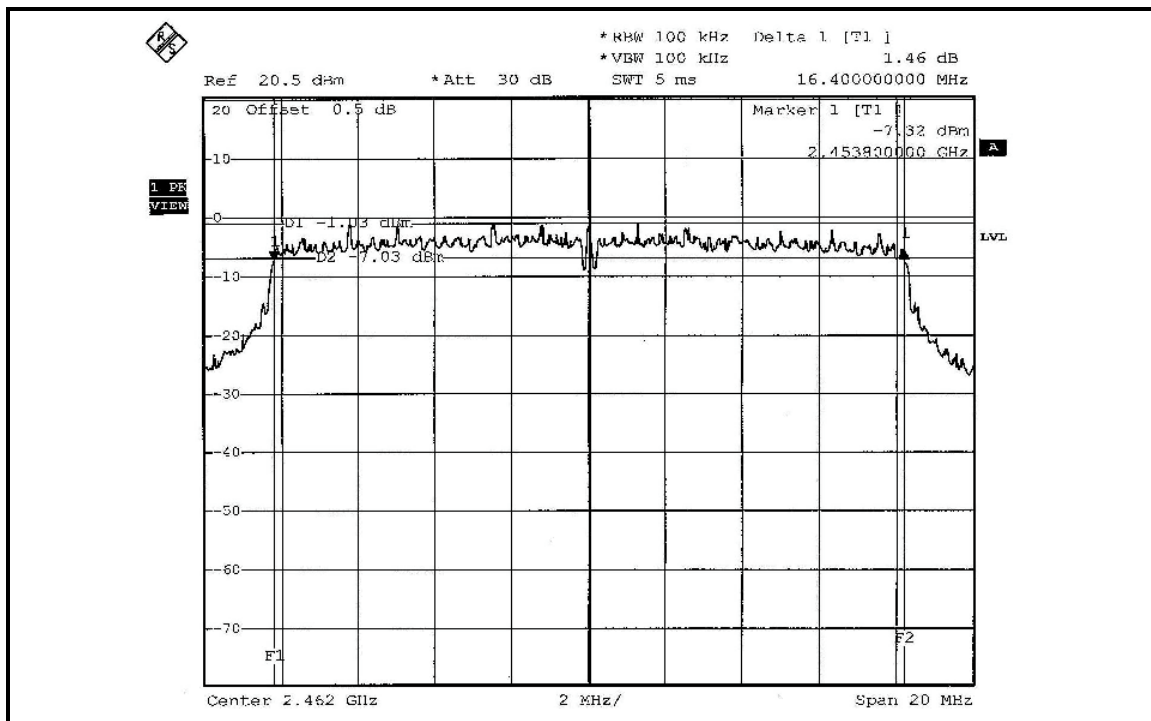
FOR CHAIN 1: CH 1



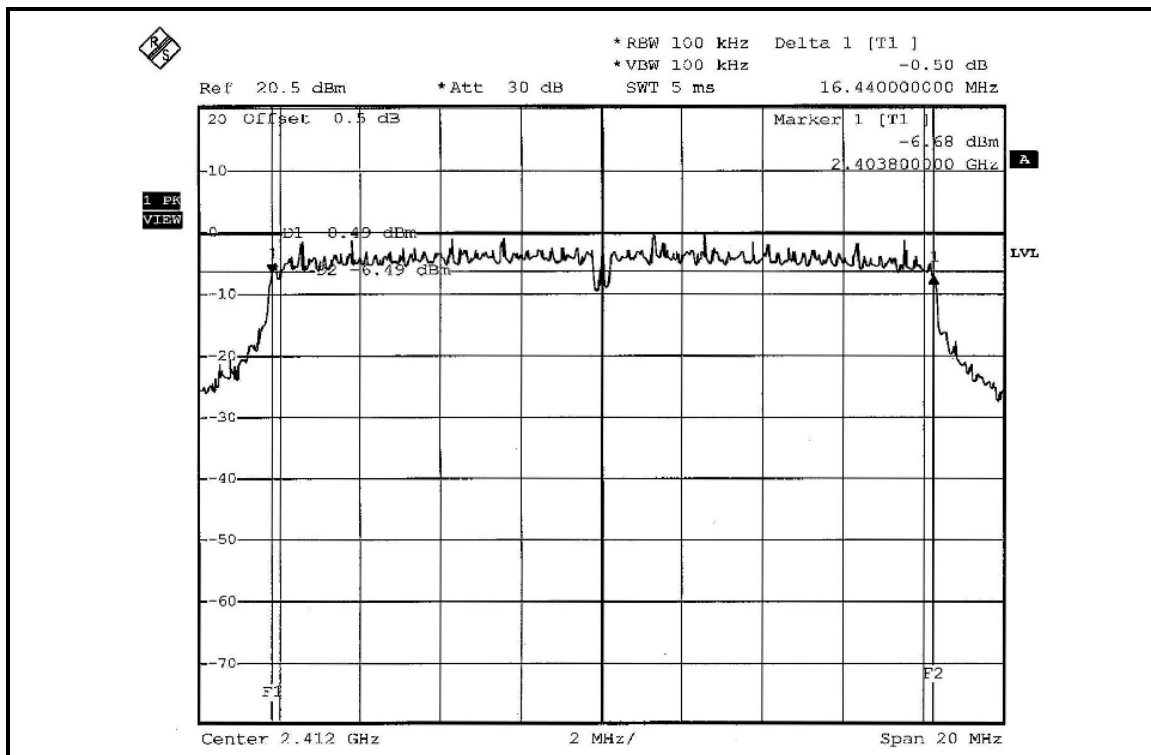
CH 6



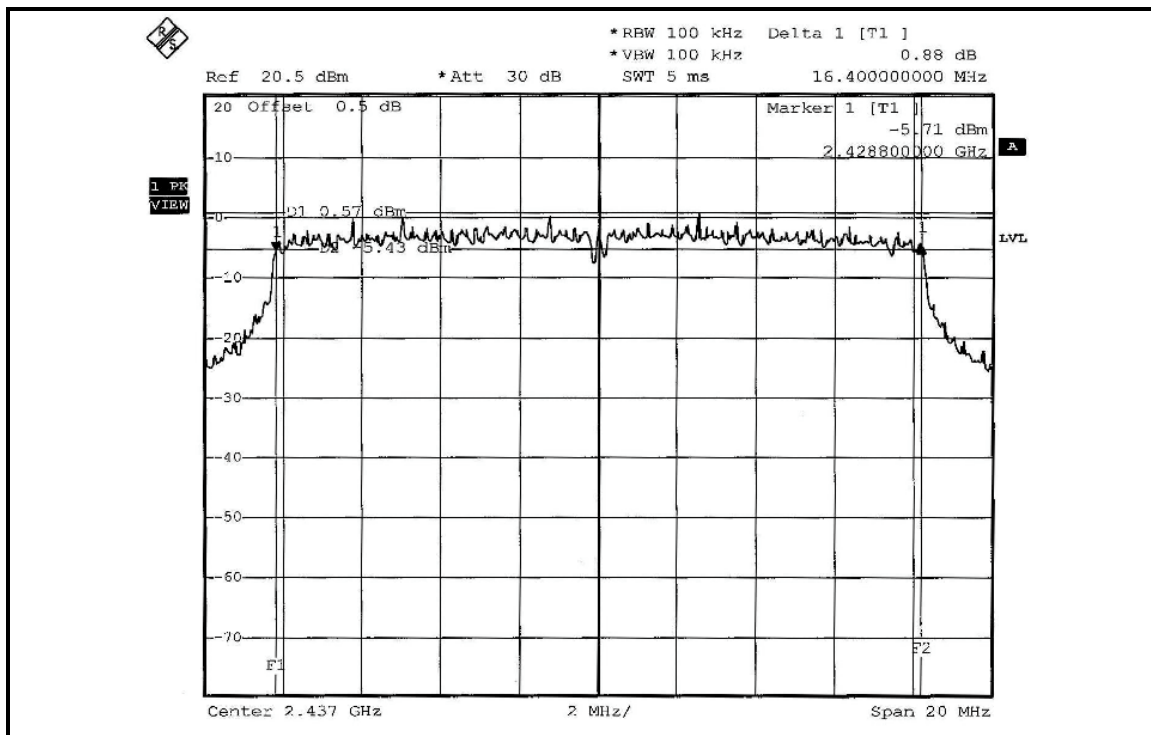
CH 11



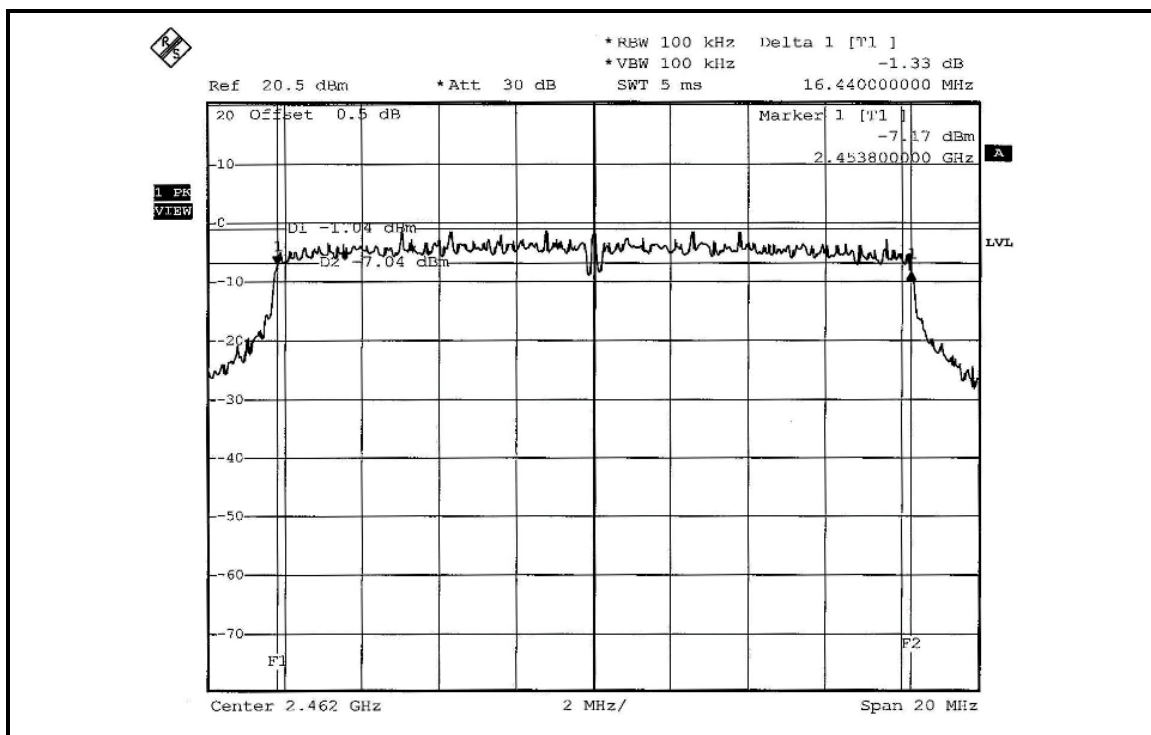
FOR CHAIN 2: CH 1



CH 6



CH 11



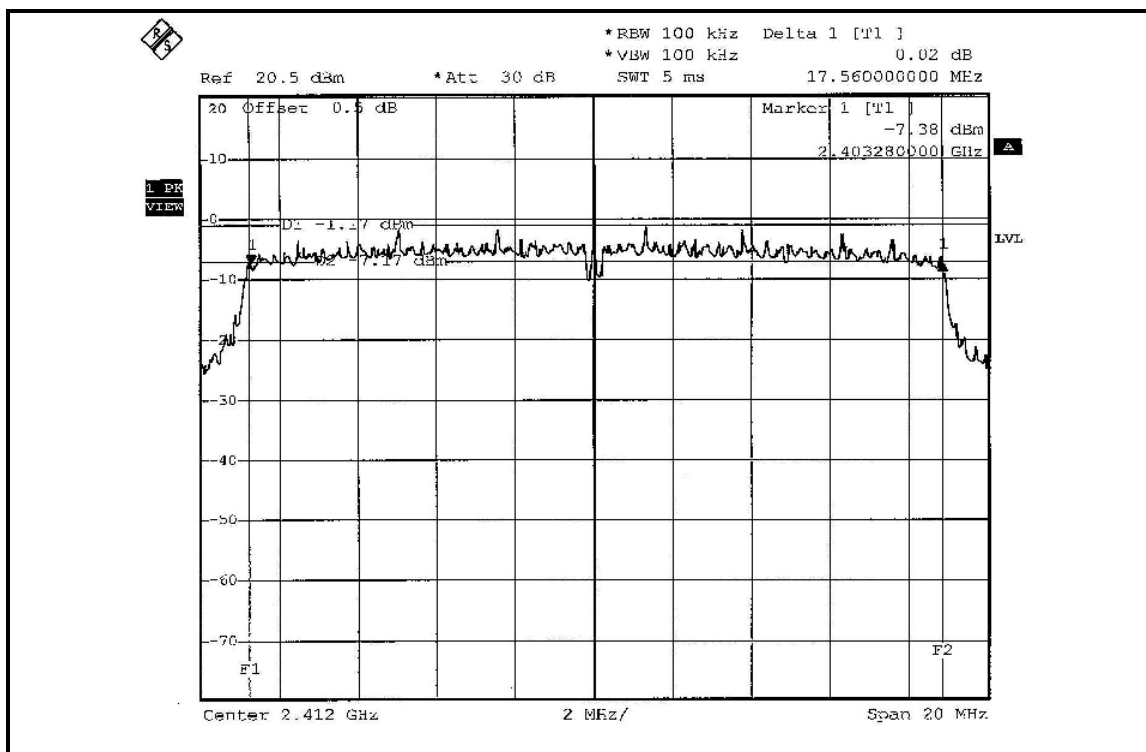


DRAFT 802.11n (20MHz) OFDM MODULATION: TRIPLE TX:

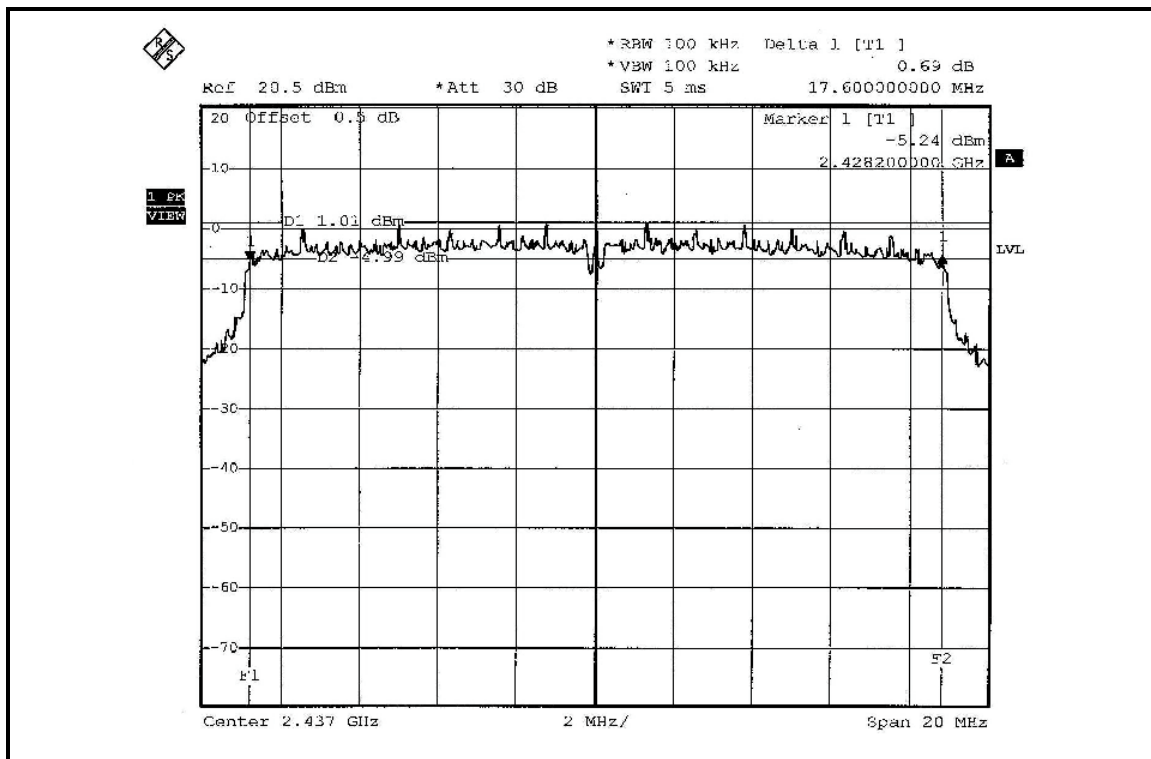
MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63%RH, 991hPa
TESTED BY	Lori Chiu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	17.56	17.60	17.64	0.5	PASS
6	2437	17.60	17.60	17.60	0.5	PASS
11	2462	17.60	17.60	17.64	0.5	PASS

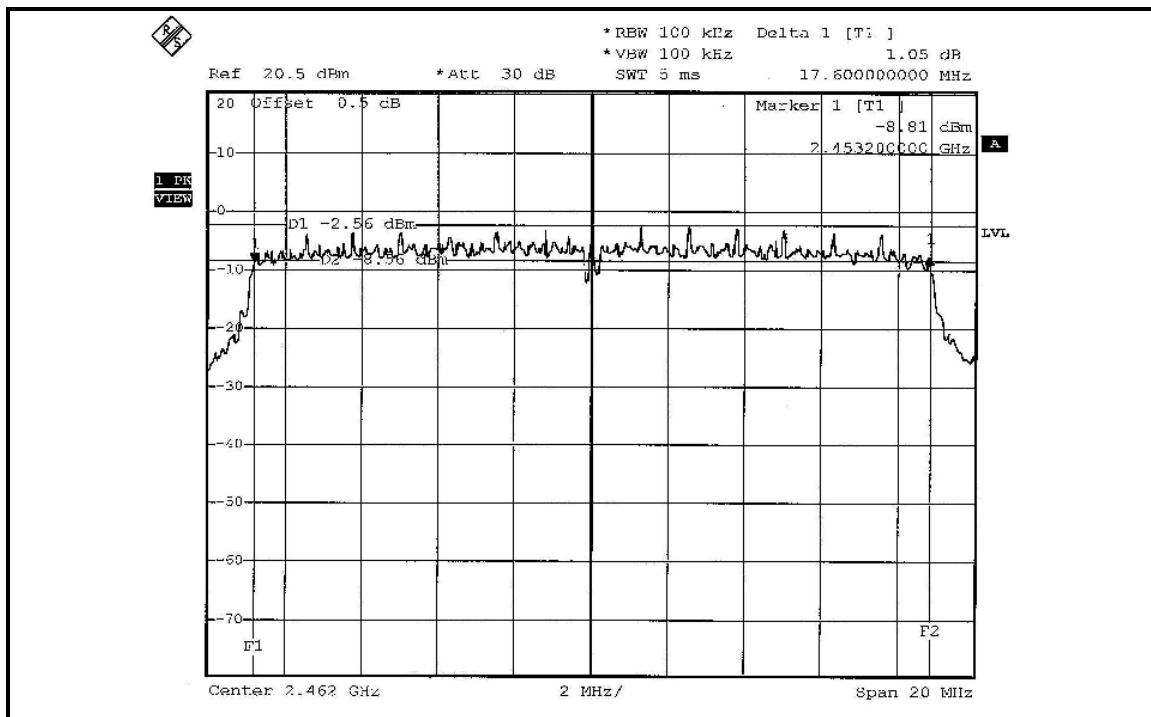
FOR CHAIN 0: CH 1



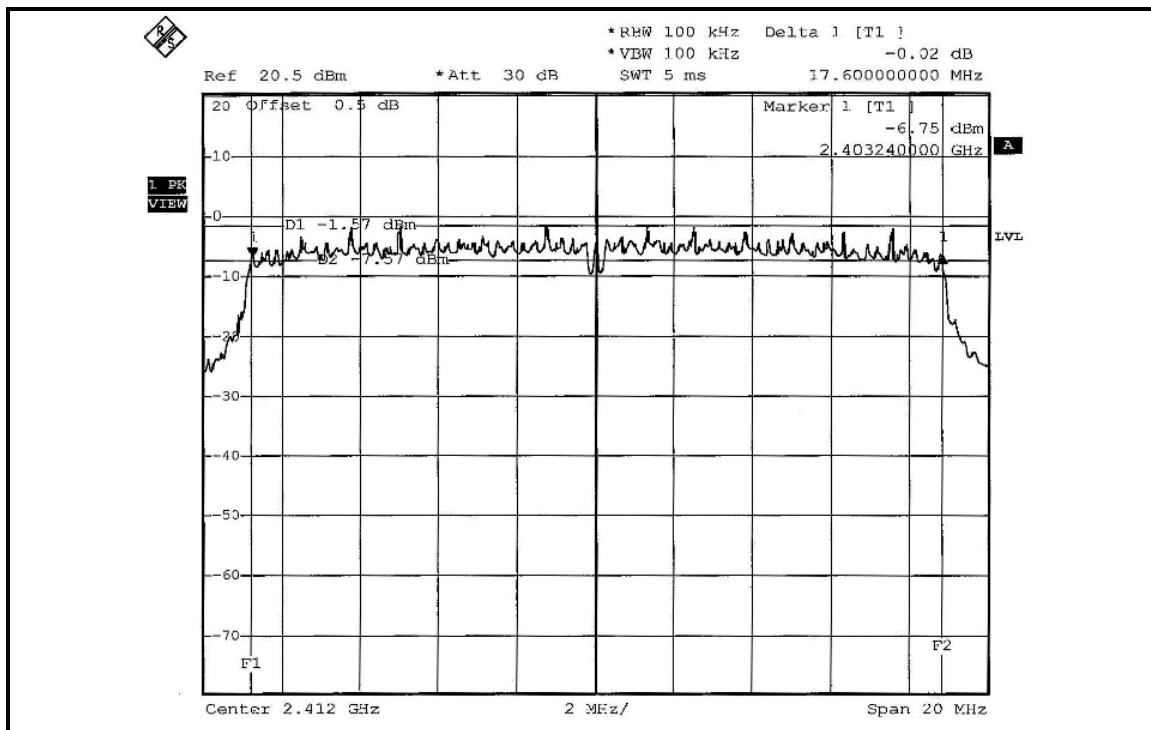
CH 6



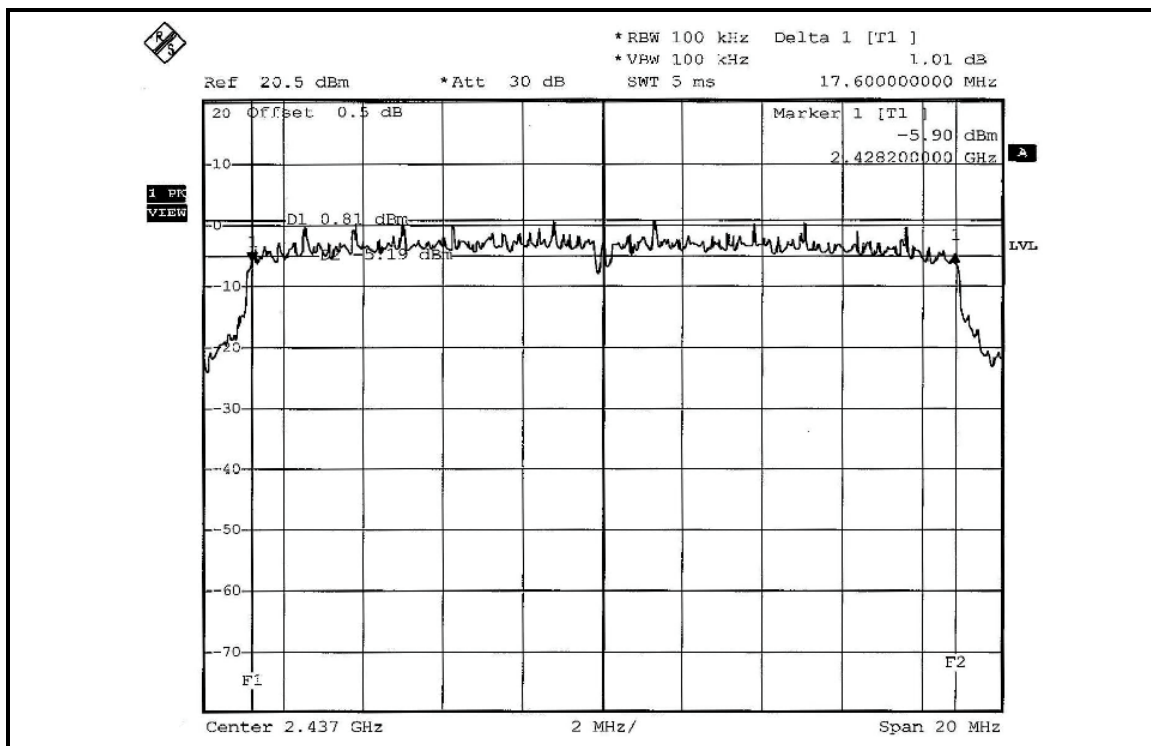
CH 11



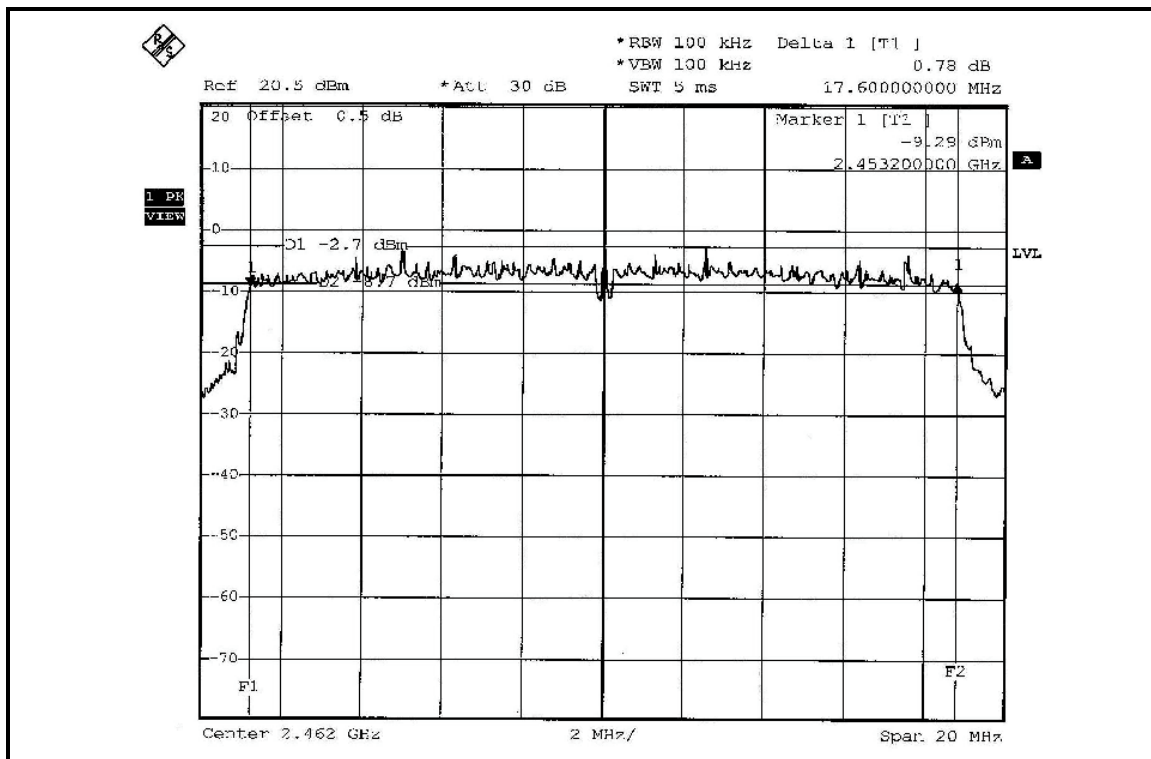
FOR CHAIN 1: CH 1



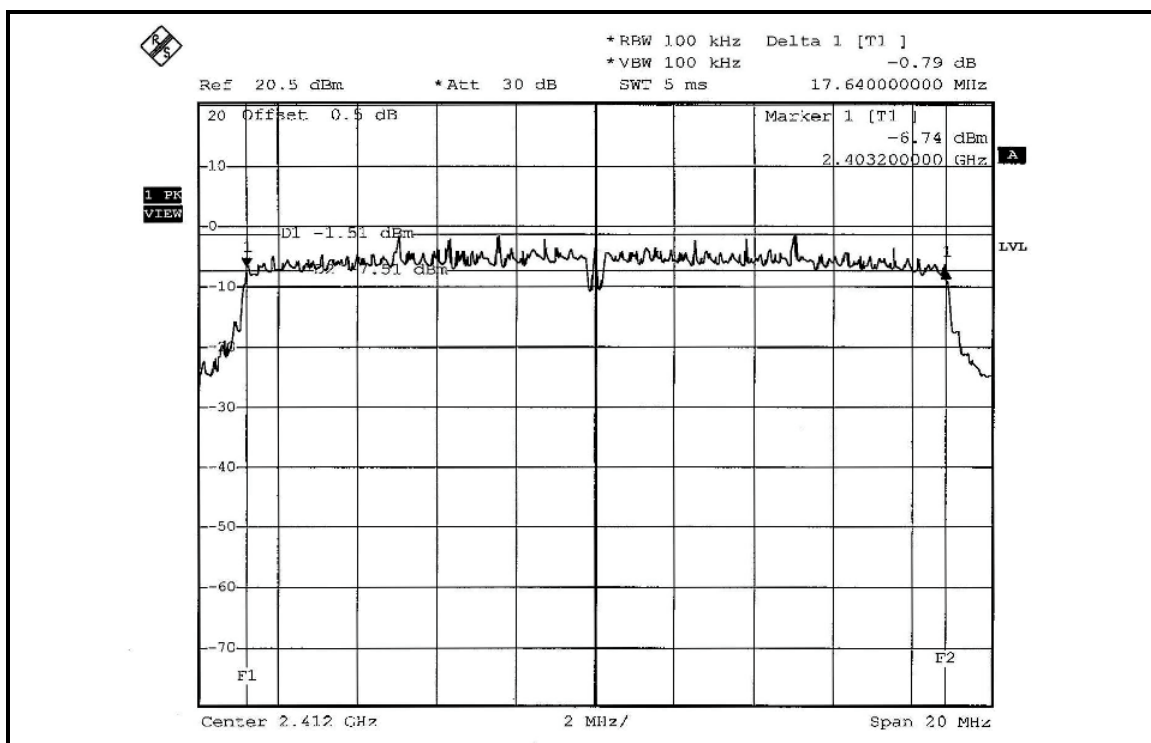
CH 6



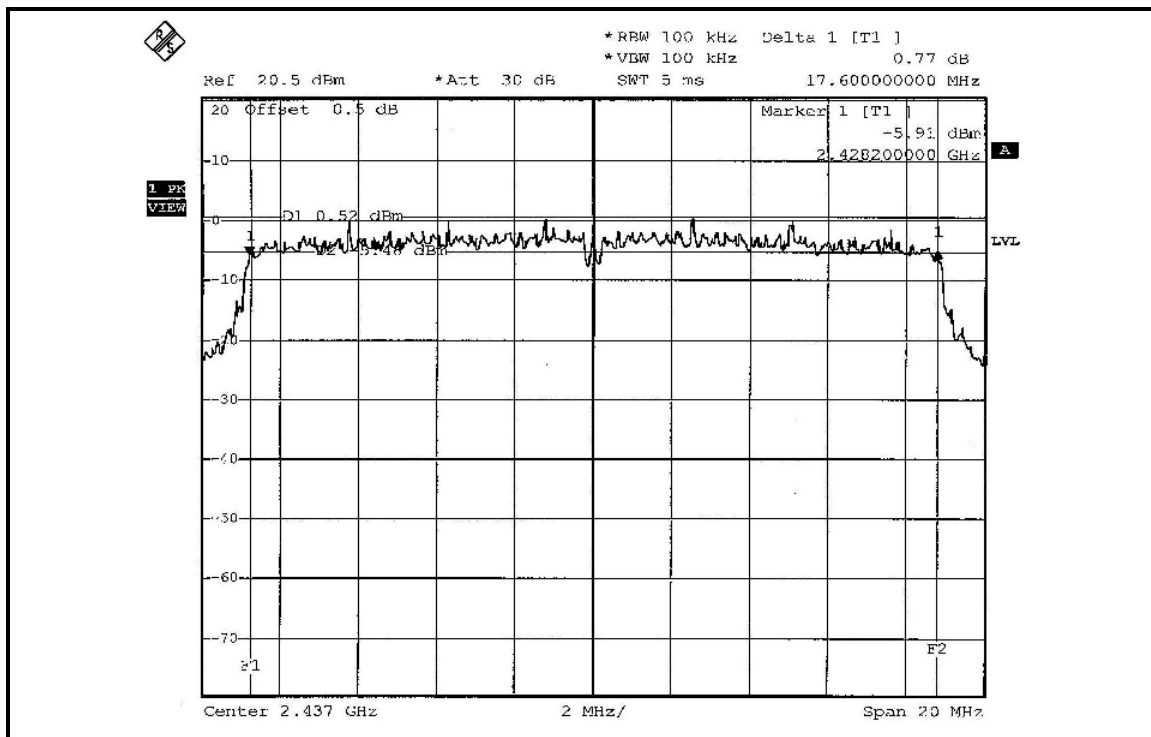
CH 11



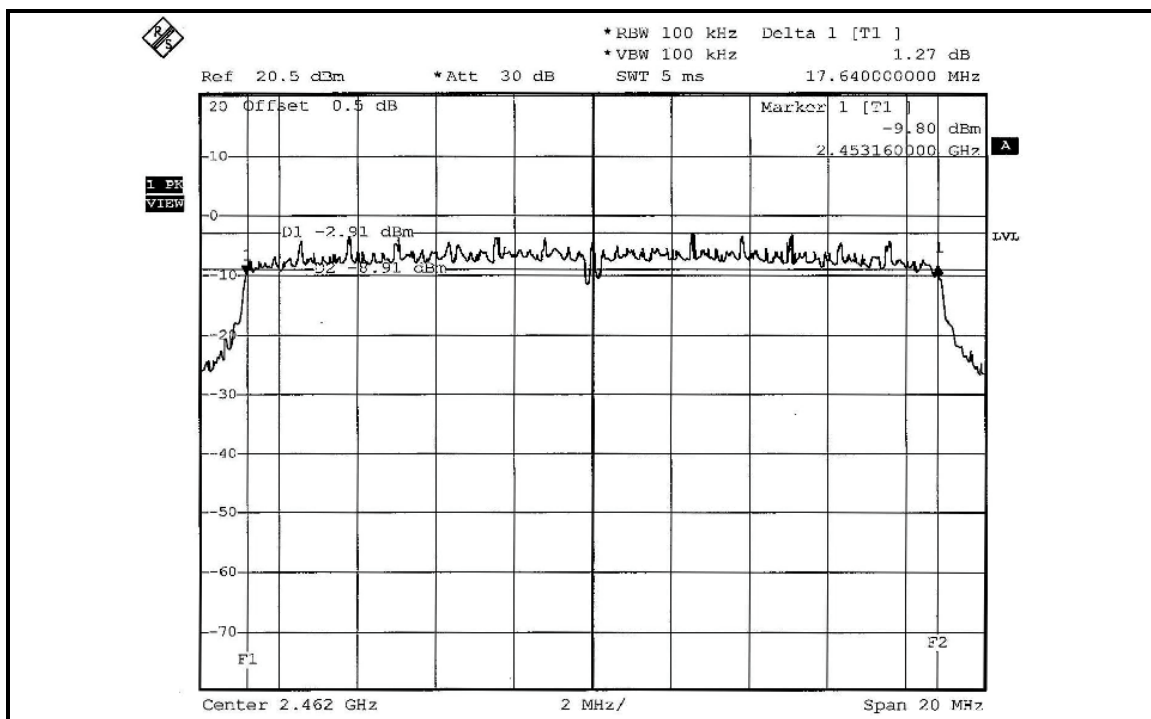
FOR CHAIN 2: CH 1



CH 6



CH 11

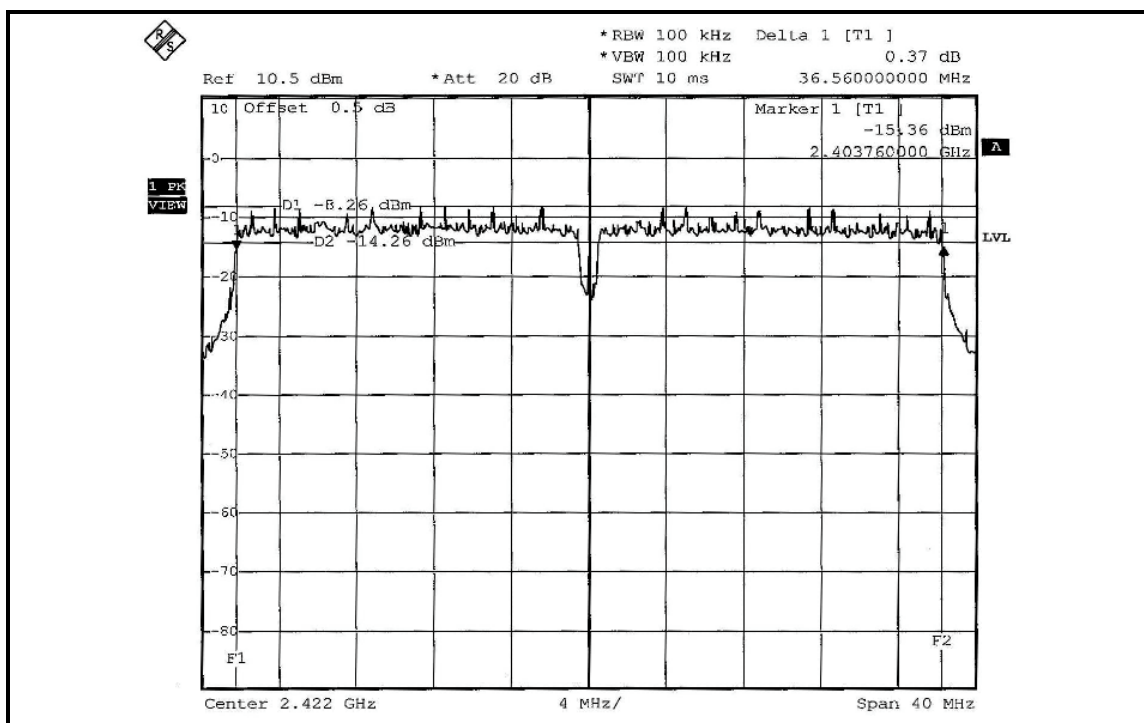


DRAFT 802.11n (40MHz) OFDM MODULATION: TRIPLE TX:

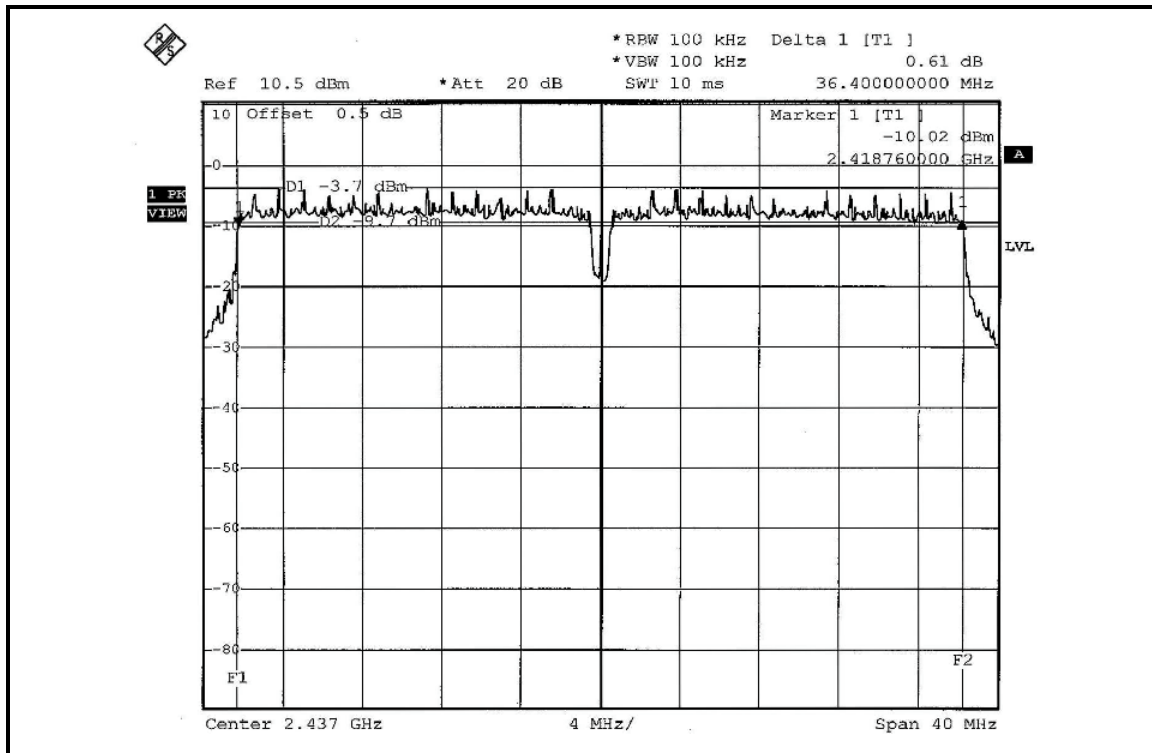
MODULATION TYPE	BPSK	TRANSFER RATE	15Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	28deg.C, 67%RH, 991hPa
TESTED BY	Lori Chiu		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2422	36.56	36.56	36.48	0.5	PASS
4	2437	36.40	36.48	36.56	0.5	PASS
7	2452	36.56	36.56	36.48	0.5	PASS

FOR CHAIN 0: CH 1



CH 4



CH 7

