

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.5Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 962hPa	TESTED BY	Rex Huang

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	69.10 PK	74.00	-4.90	1.34 H	138	39.40	29.70
1	2390.00	53.40 AV	54.00	-0.60	1.34 H	138	23.70	29.70
2	*2412.00	109.40 PK			1.47 H	140	79.60	29.80
2	*2412.00	101.10 AV			1.47 H	140	71.30	29.80
3	4824.00	46.40 PK	74.00	-27.60	1.30 H	3	11.30	35.10
3	4824.00	34.10 AV	54.00	-19.90	1.30 H	3	-1.00	35.10
4	7236.00	50.70 PK	74.00	-23.30	1.27 H	21	10.20	40.50
4	7236.00	37.60 AV	54.00	-16.40	1.27 H	21	-2.90	40.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.40 PK	74.00	-5.60	1.00 V	52	38.70	29.70
1	2390.00	50.60 AV	54.00	-3.40	1.00 V	52	20.90	29.70
2	*2412.00	108.00 PK			1.39 V	294	78.20	29.80
2	*2412.00	100.50 AV			1.39 V	294	70.70	29.80
3	4824.00	46.70 PK	74.00	-27.30	1.00 V	19	11.60	35.10
3	4824.00	34.50 AV	54.00	-19.50	1.00 V	19	-0.60	35.10
4	7236.00	51.60 PK	74.00	-22.40	1.07 V	26	11.10	40.50
4	7236.00	38.40 AV	54.00	-15.60	1.07 V	26	-2.10	40.50

- 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	6.5Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 962hPa	TESTED BY	Rex Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	112.50 PK			1.40 H	211	82.60	29.90
1	*2437.00	101.90 AV			1.40 H	211	72.00	29.90
2	4874.00	52.10 PK	74.00	-21.90	1.32 H	357	16.80	35.30
2	4874.00	37.80 AV	54.00	-16.20	1.32 H	357	2.50	35.30
3	7311.00	50.40 PK	74.00	-23.60	1.34 H	7	9.70	40.70
3	7311.00	37.50 AV	54.00	-16.50	1.34 H	7	-3.20	40.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	112.30 PK			1.40 V	308	82.40	29.90
1	*2437.00	101.70 AV			1.40 V	308	71.80	29.90
2	4874.00	51.90 PK	74.00	-22.10	1.34 V	15	16.60	35.30
2	4874.00	37.60 AV	54.00	-16.40	1.34 V	15	2.30	35.30
3	7311.00	51.10 PK	74.00	-22.90	1.20 V	18	10.40	40.70
3	7311.00	38.00 AV	54.00	-16.00	1.20 V	18	-2.70	40.70

- 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.

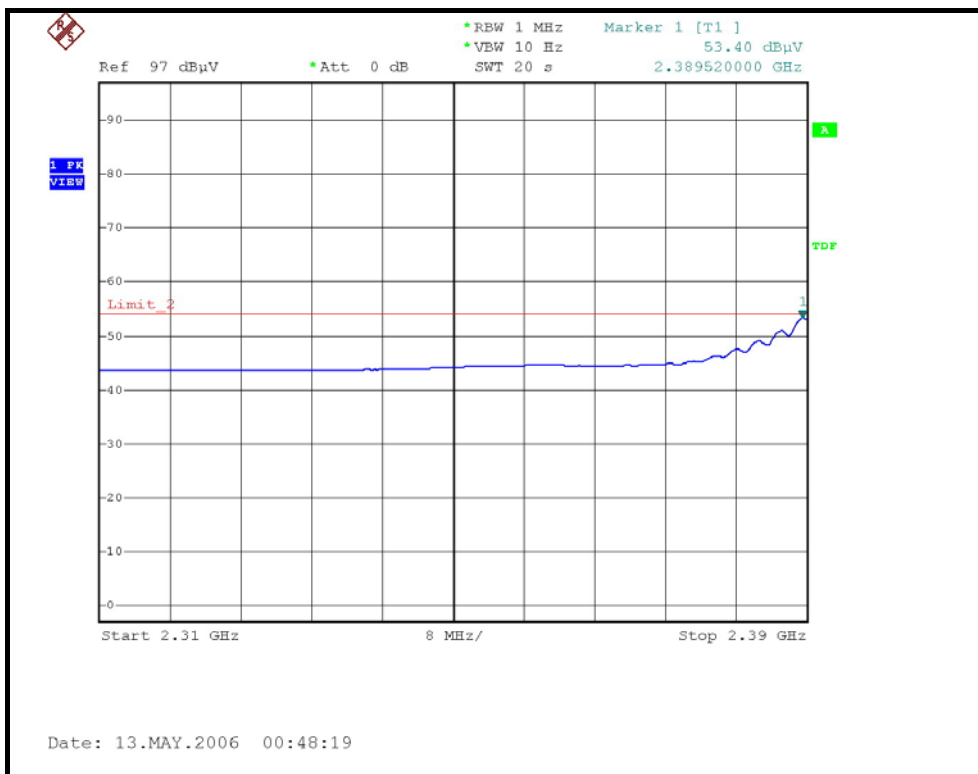
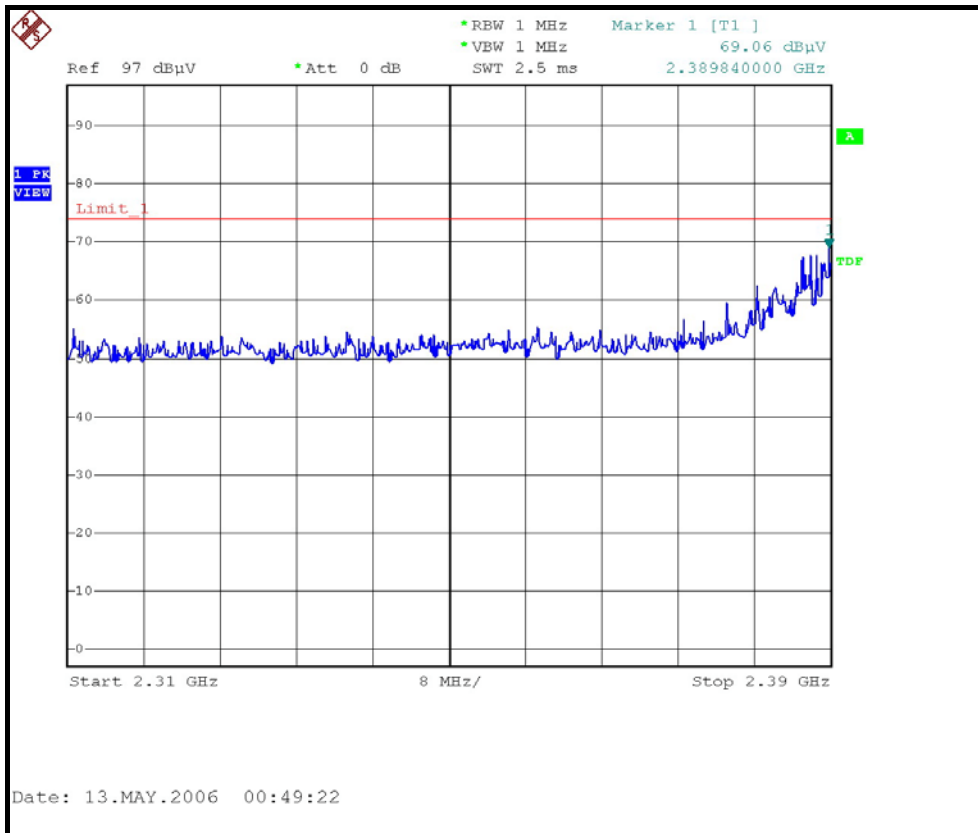
EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.5Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 962hPa	TESTED BY	Rex Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.00 PK			1.38 H	136	80.00	30.00
1	*2462.00	100.90 AV			1.38 H	136	70.90	30.00
2	2483.50	64.30 PK	74.00	-9.70	1.40 H	136	34.20	30.10
2	2483.50	51.10 AV	54.00	-2.90	1.40 H	136	21.00	30.10
3	2484.30	65.30 PK	74.00	-8.70	1.40 H	136	35.20	30.10
3	2484.30	52.60 AV	54.00	-1.40	1.40 H	136	22.50	30.10
4	4924.00	46.40 PK	74.00	-27.60	1.33 H	359	10.90	35.50
4	4924.00	33.90 AV	54.00	-20.10	1.33 H	359	-1.60	35.50
5	7386.00	50.60 PK	74.00	-23.40	1.27 H	13	9.80	40.80
5	7386.00	37.40 AV	54.00	-16.60	1.27 H	13	-3.40	40.80

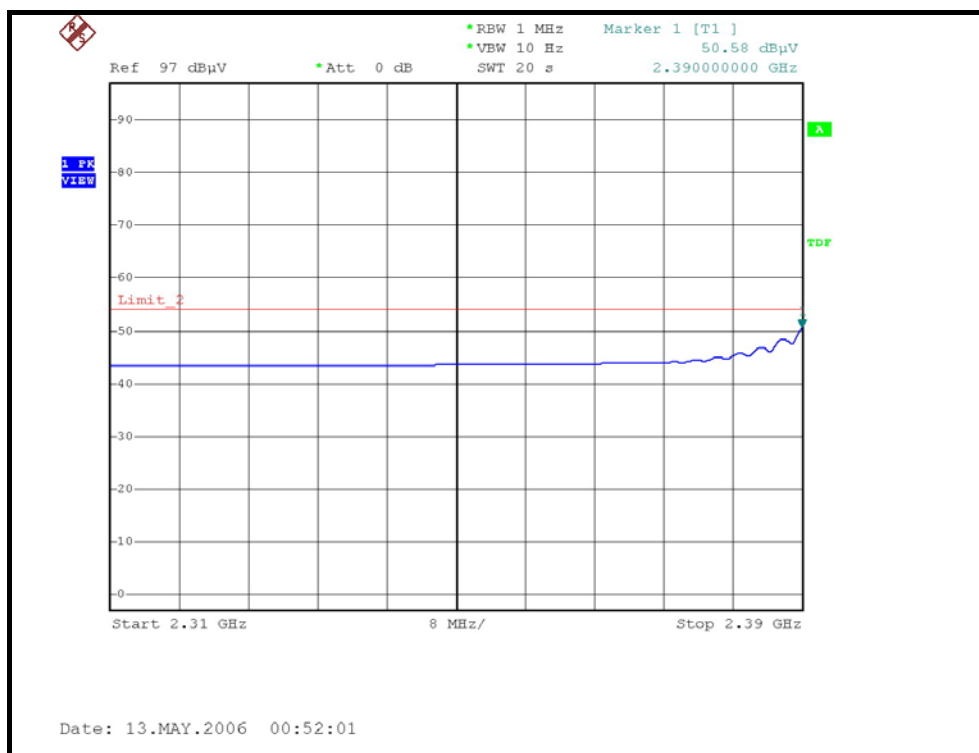
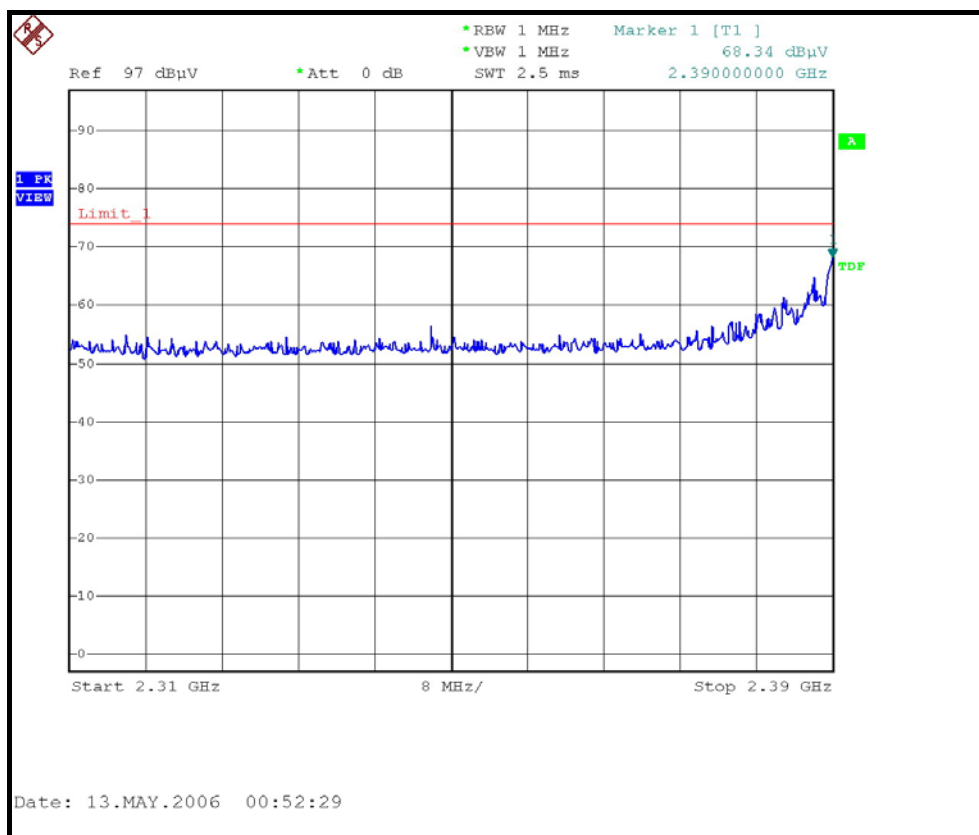
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.80 PK			1.40 V	310	79.80	30.00
1	*2462.00	100.00 AV			1.40 V	310	70.00	30.00
2	2483.80	69.10 PK	74.00	-4.90	1.00 V	304	39.00	30.10
2	2483.80	52.70 AV	54.00	-1.30	1.00 V	304	22.60	30.10
3	4924.00	46.70 PK	74.00	-27.30	1.11 V	17	11.20	35.50
3	4924.00	34.30 AV	54.00	-19.70	1.11 V	17	-1.20	35.50
4	7386.00	51.40 PK	74.00	-22.60	1.12 V	13	10.60	40.80
4	7386.00	38.10 AV	54.00	-15.90	1.12 V	13	-2.70	40.80

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

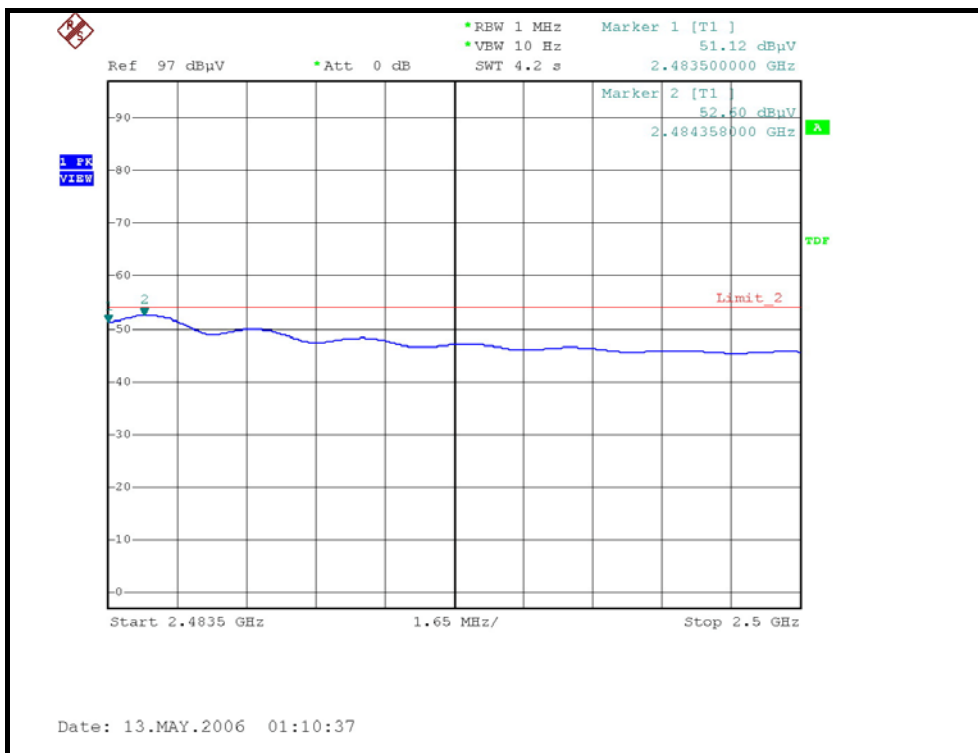
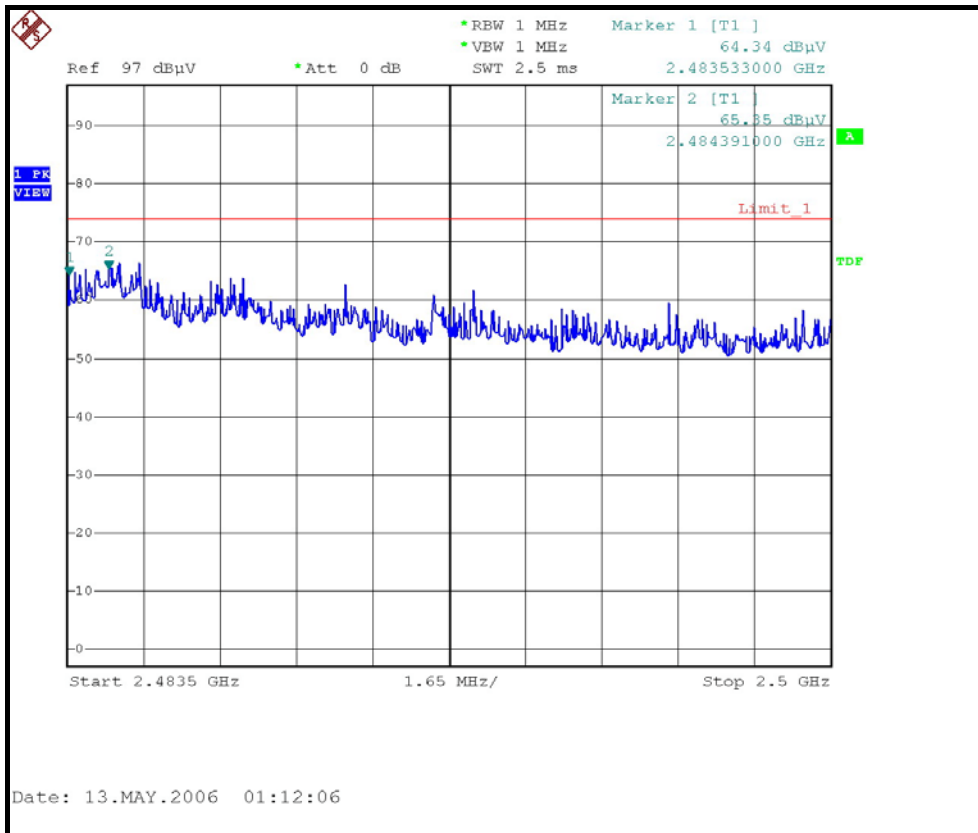
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH1, HORIZONTAL)



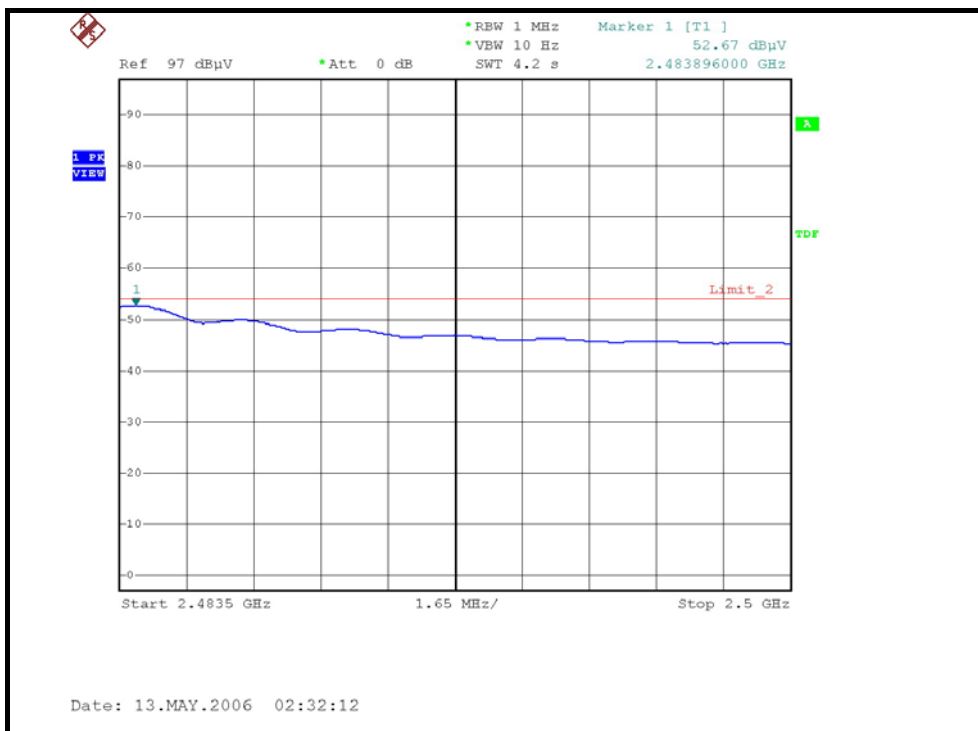
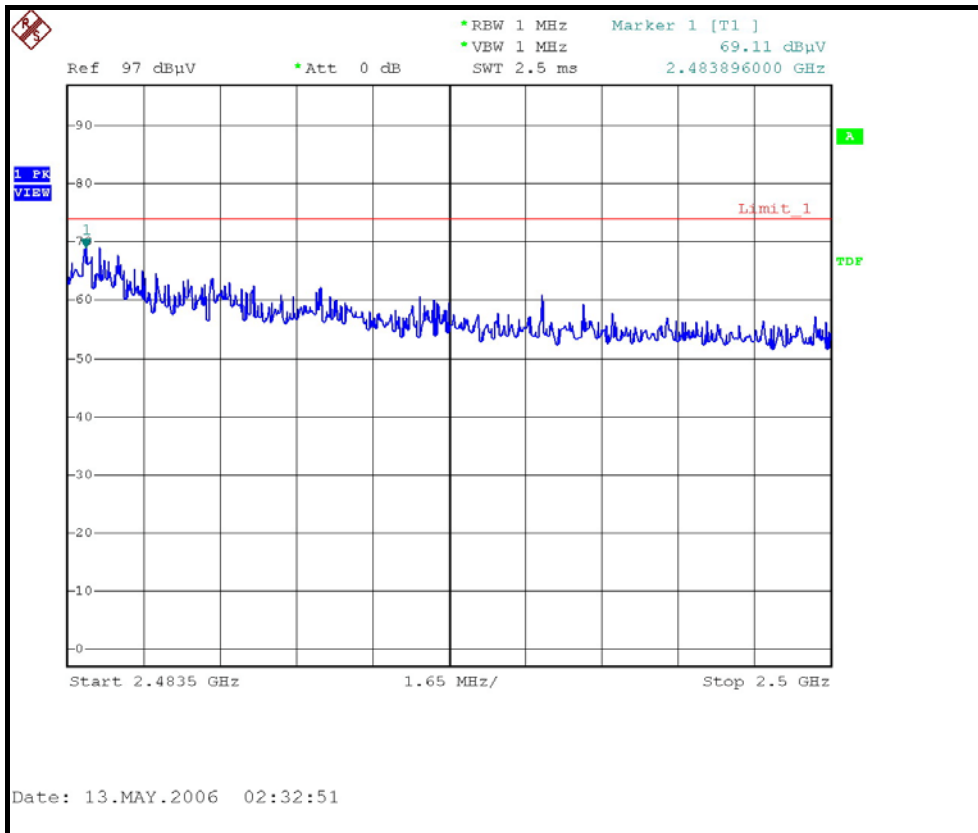
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH1, VERTICAL)



RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH11, HORIZONTAL)



RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH11, VERTICAL)



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	13.5Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 962hPa	TESTED BY	Rex Huang

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	68.70 PK	74.00	-5.30	1.40 H	210	39.00	29.70
1	2390.00	53.70 AV	54.00	-0.30	1.40 H	210	24.00	29.70
2	*2422.00	106.60 PK			1.56 H	208	76.70	29.90
2	*2422.00	96.30 AV			1.56 H	208	66.40	29.90
3	4844.00	45.90 PK	74.00	-28.10	1.32 H	354	10.70	35.20
3	4844.00	33.30 AV	54.00	-20.70	1.32 H	354	-1.90	35.20
4	7266.00	50.30 PK	74.00	-23.70	1.31 H	8	9.70	40.60
4	7266.00	37.20 AV	54.00	-16.80	1.31 H	8	-3.40	40.60

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	2388.80	68.10 PK	74.00	-5.90	1.15 V	305	38.40	29.70
1	2388.80	50.20 AV	54.00	-3.80	1.15 V	305	20.50	29.70
2	*2422.00	105.50 PK			1.18 V	306	75.60	29.90
2	*2422.00	95.00 AV			1.18 V	306	65.10	29.90
3	4844.00	46.40 PK	74.00	-27.60	1.26 V	16	11.20	35.20
3	4844.00	34.00 AV	54.00	-20.00	1.26 V	16	-1.20	35.20
4	7266.00	51.40 PK	74.00	-22.60	1.15 V	22	10.80	40.60
4	7266.00	37.80 AV	54.00	-16.20	1.15 V	22	-2.80	40.60

- 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	13.5Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 962hPa	TESTED BY	Rex Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.00 PK			1.44 H	207	78.10	29.90
1	*2437.00	97.70 AV			1.44 H	207	67.80	29.90
2	4874.00	46.20 PK	74.00	-27.80	1.35 H	1	10.90	35.30
2	4874.00	33.10 AV	54.00	-20.90	1.35 H	1	-2.20	35.30
3	7311.00	50.50 PK	74.00	-23.50	1.29 H	17	9.80	40.70
3	7311.00	37.30 AV	54.00	-16.70	1.29 H	17	-3.40	40.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.20 PK			1.18 V	303	76.30	29.90
1	*2437.00	95.80 AV			1.18 V	303	65.90	29.90
2	4874.00	46.30 PK	74.00	-27.70	1.27 V	32	11.00	35.30
2	4874.00	34.10 AV	54.00	-19.90	1.27 V	32	-1.20	35.30
3	7311.00	51.20 PK	74.00	-22.80	1.14 V	13	10.50	40.70
3	7311.00	37.90 AV	54.00	-16.10	1.14 V	13	-2.80	40.70

- 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.

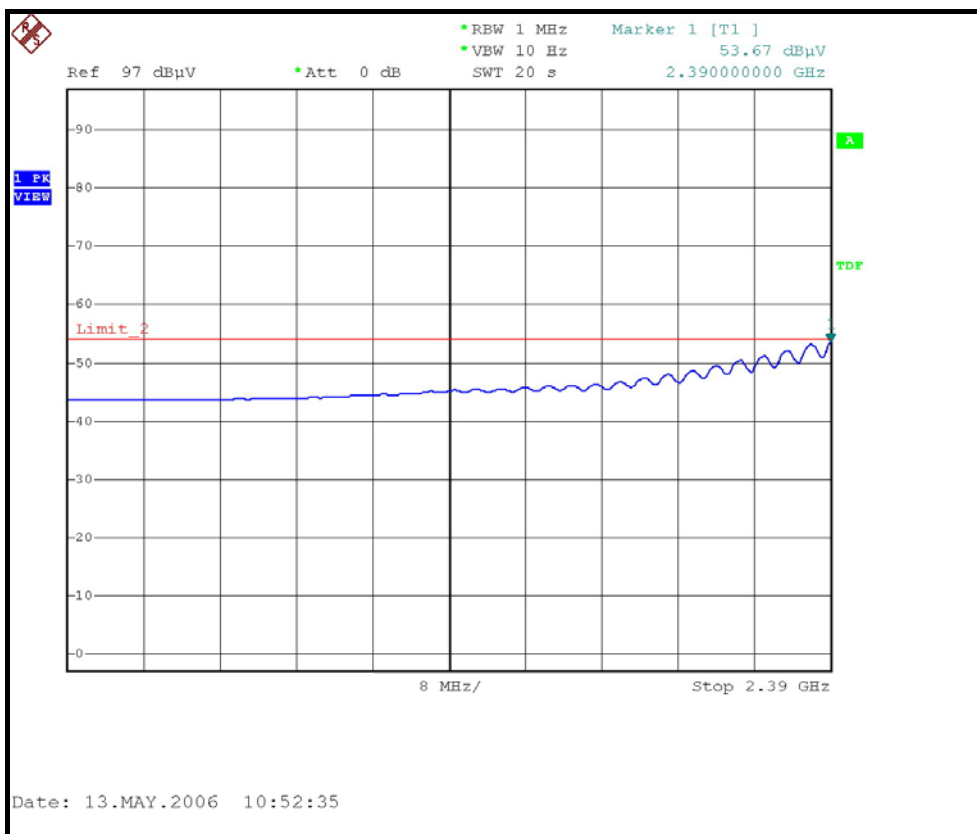
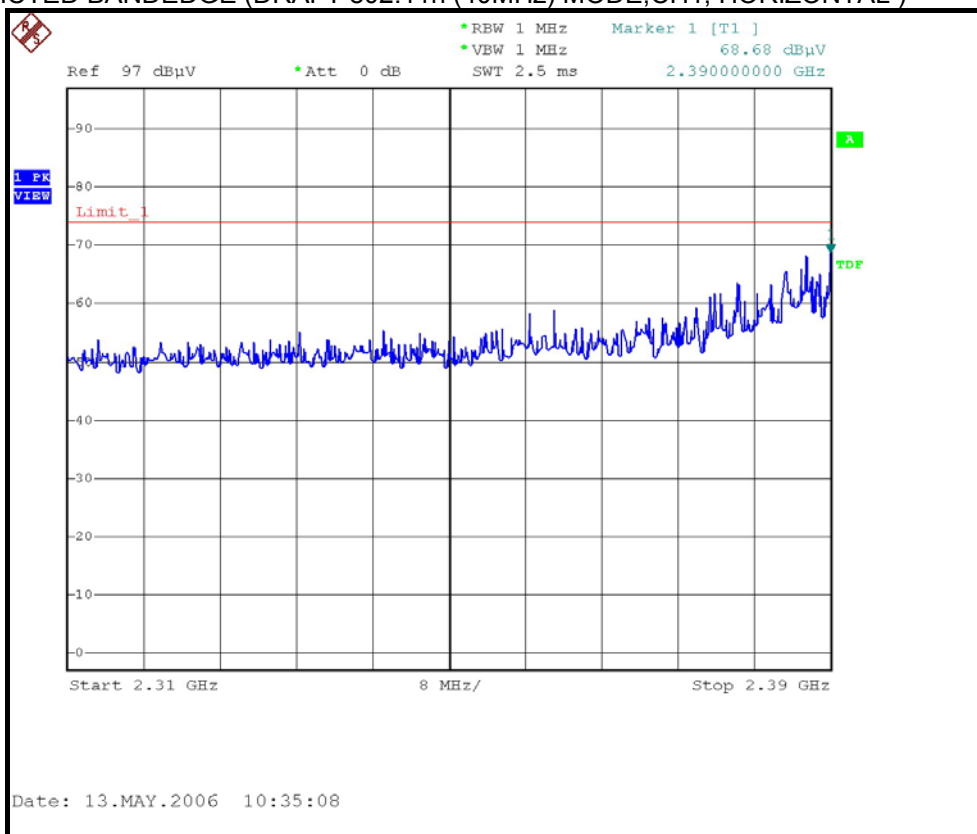
EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	13.5Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 70%RH, 962hPa	TESTED BY	Rex Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.60 PK			1.42 H	210	75.60	30.00
1	*2452.00	96.00 AV			1.42 H	210	66.00	30.00
2	2483.90	70.70 PK	74.00	-3.30	1.41 H	205	40.60	30.10
2	2483.90	52.50 AV	54.00	-1.50	1.41 H	205	22.40	30.10
3	4904.00	45.60 PK	74.00	-28.40	1.34 H	2	10.20	35.40
3	4904.00	33.00 AV	54.00	-21.00	1.34 H	2	-2.40	35.40
4	7356.00	50.60 PK	74.00	-23.40	1.27 H	13	9.80	40.80
4	7356.00	37.40 AV	54.00	-16.60	1.27 H	13	-3.40	40.80

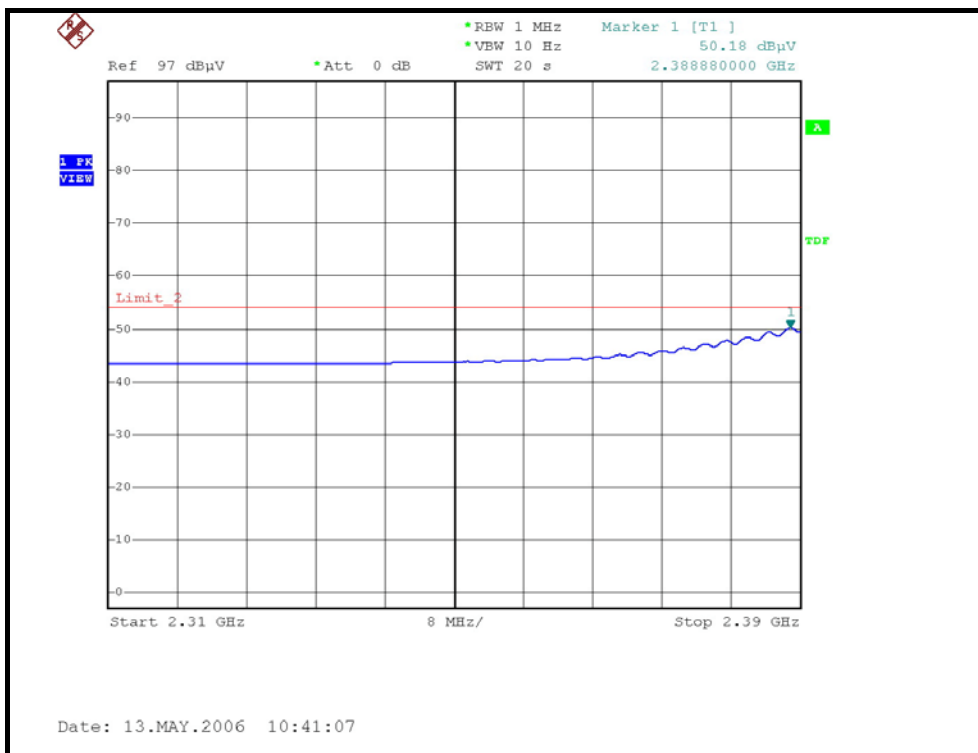
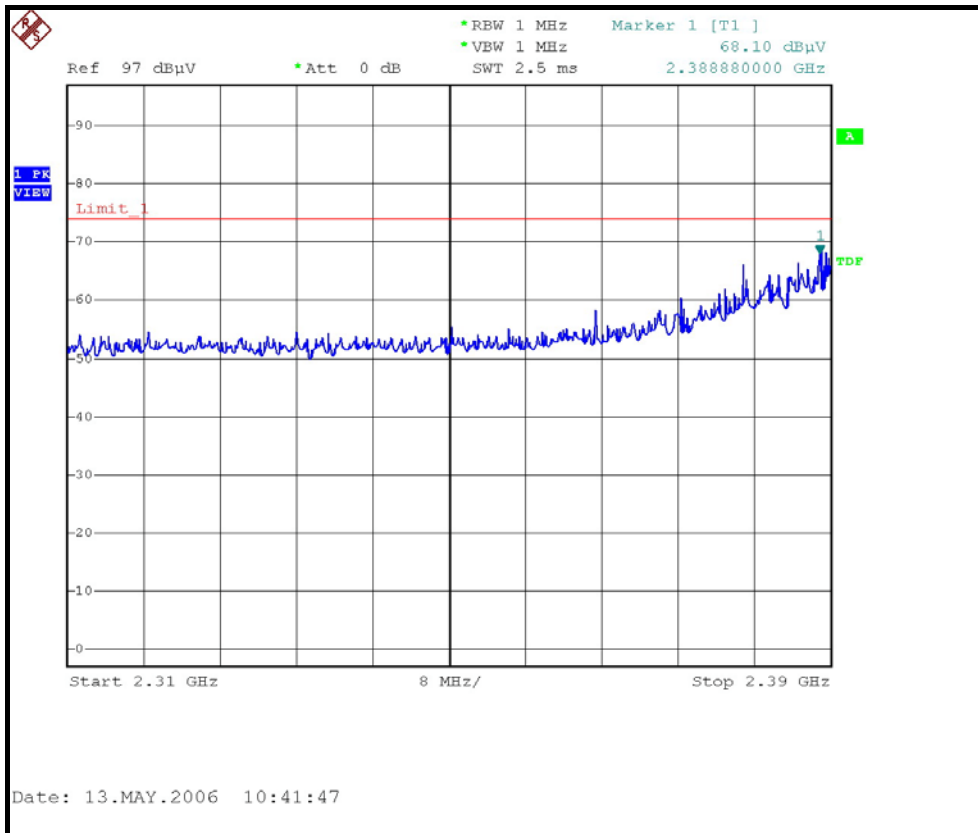
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.60 PK			1.18 V	304	75.60	30.00
1	*2452.00	95.50 AV			1.18 V	304	65.50	30.00
2	2483.50	69.30 PK	74.00	-4.70	1.18 V	309	39.20	30.10
2	2483.50	52.70 AV	54.00	-1.30	1.18 V	309	22.60	30.10
3	2485.30	70.20 PK	74.00	-3.80	1.18 V	309	40.10	30.10
3	2485.30	53.20 AV	54.00	-0.80	1.18 V	309	23.10	30.10
4	4904.00	46.10 PK	74.00	-27.90	1.16 V	23	10.70	35.40
4	4904.00	33.90 AV	54.00	-20.10	1.16 V	23	-1.50	35.40
5	7356.00	51.30 PK	74.00	-22.70	1.11 V	12	10.50	40.80
5	7356.00	37.90 AV	54.00	-16.10	1.11 V	12	-2.90	40.80

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

RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE,CH1, HORIZONTAL)

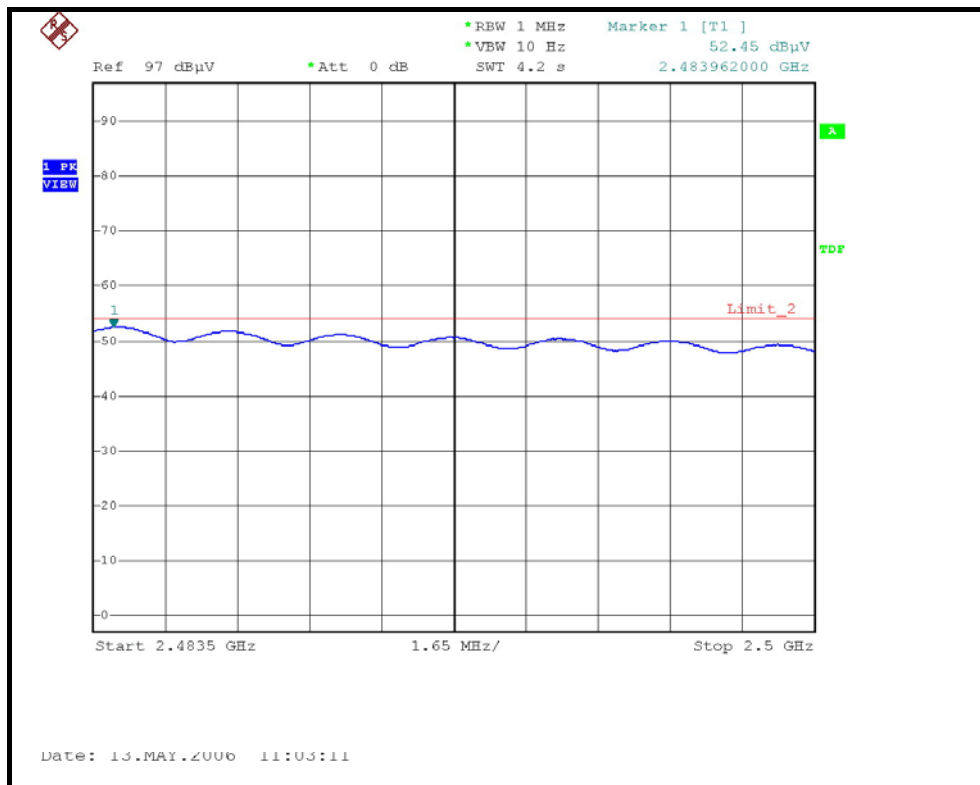
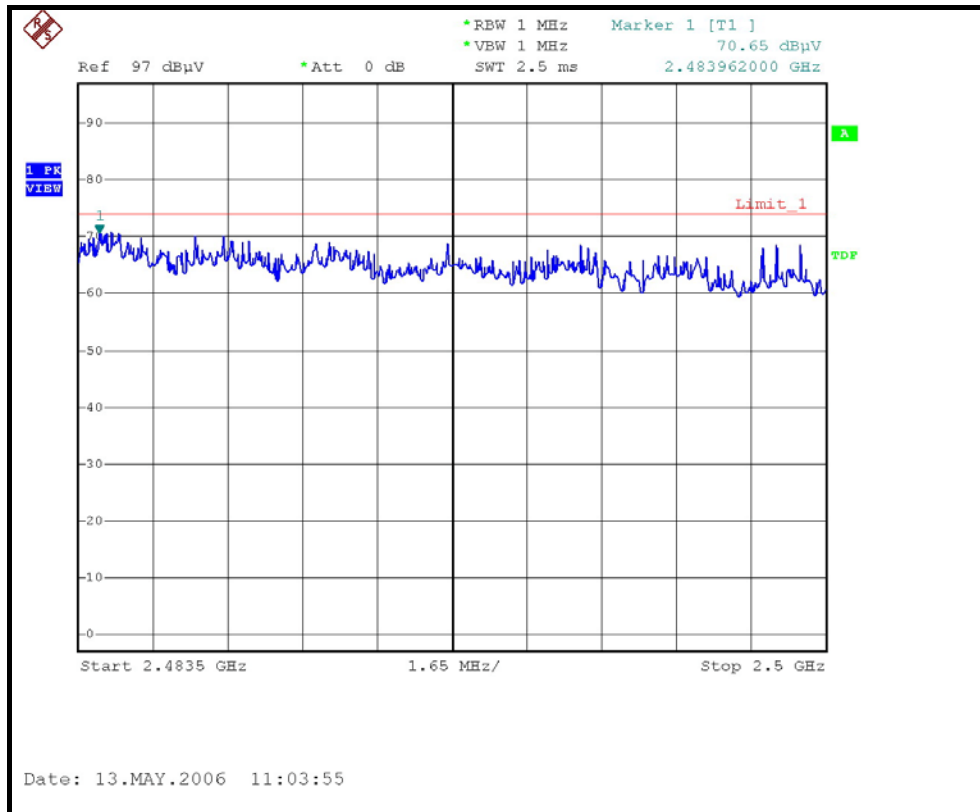


RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE,CH1, VERTICAL)

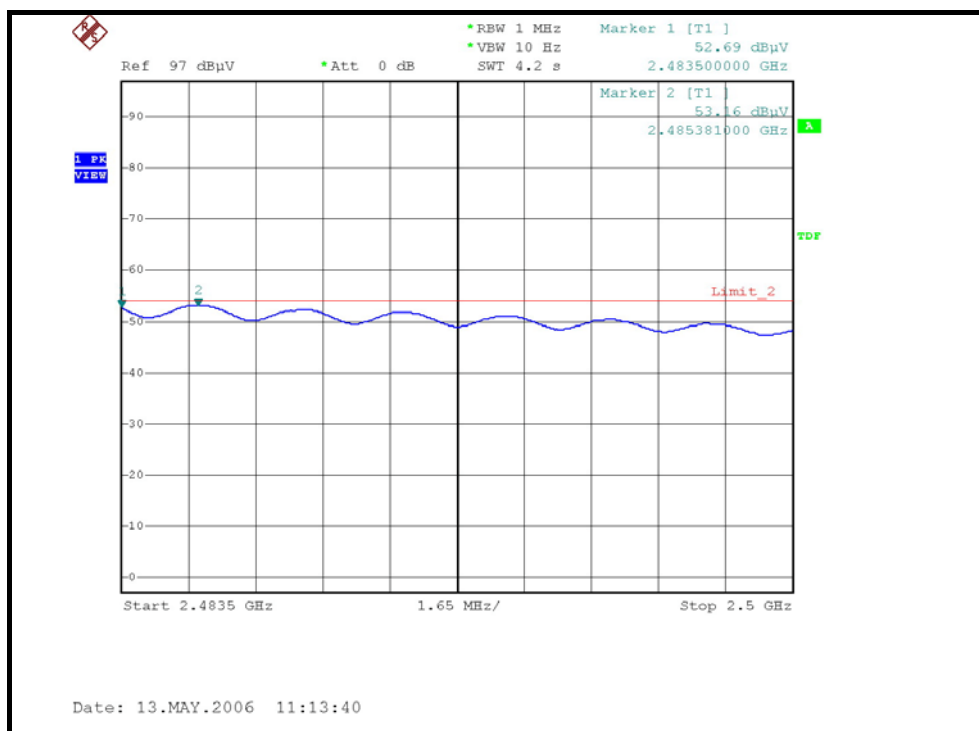
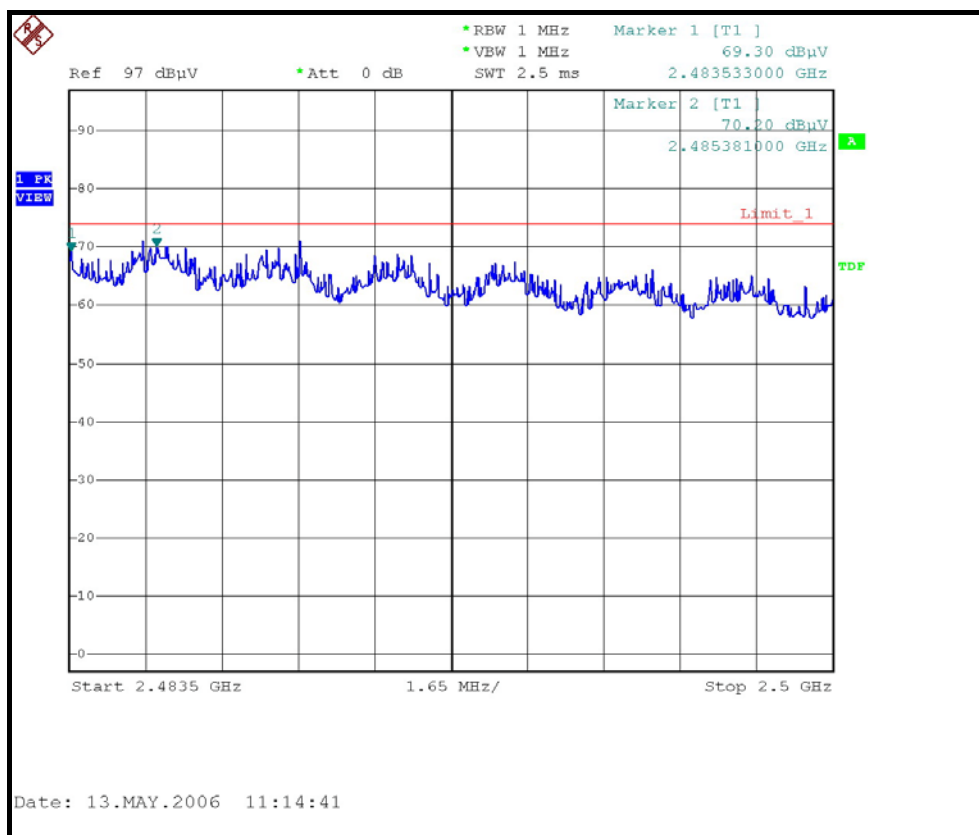




RESTRICTED BANDEGE (DRAFT 802.11n (40MHz) MODE,CH7, HORIZONTAL)



RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE,CH7, VERTICAL)





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
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006

NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

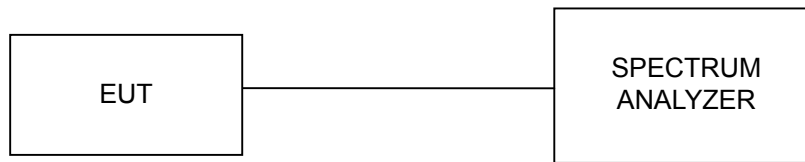
4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

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

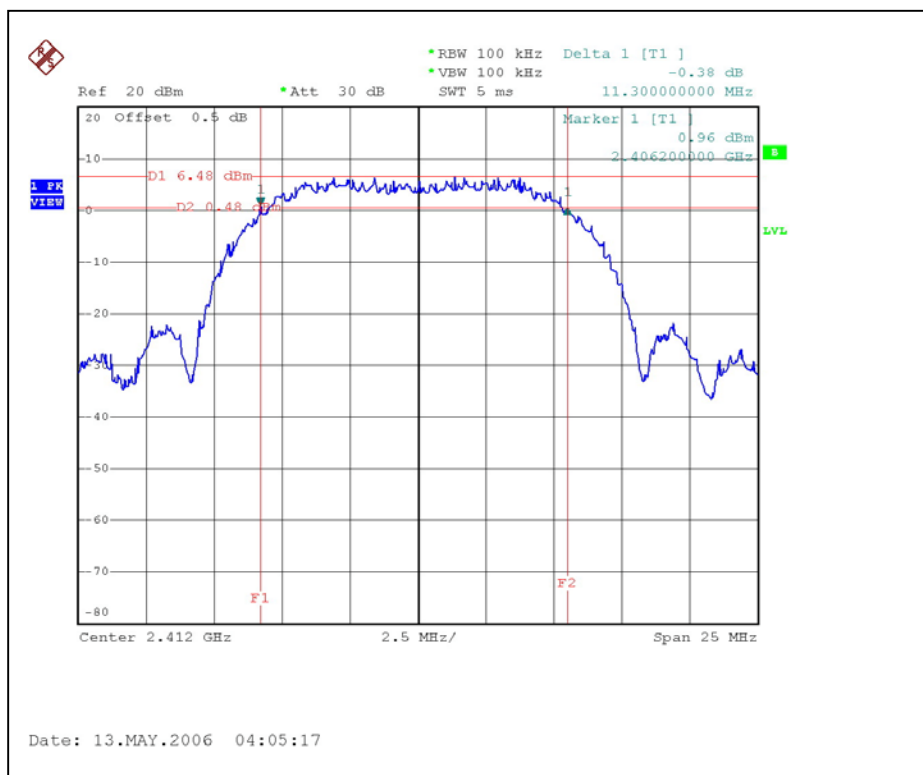
4.3.7 TEST RESULTS

802.11b DSSS MODULATION:

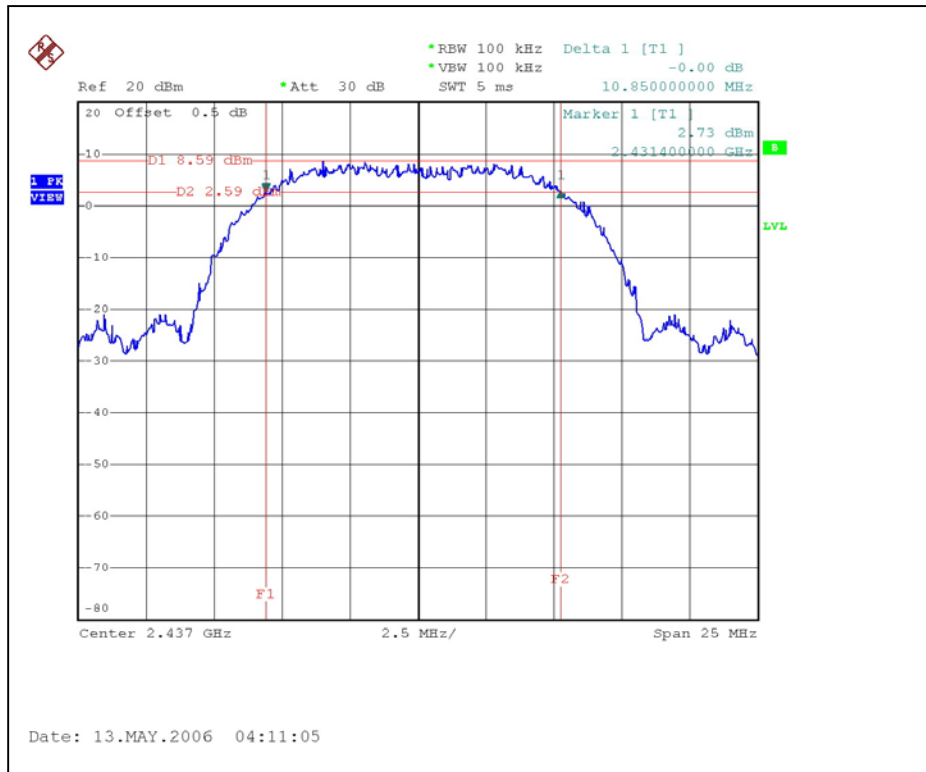
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 68%RH, 962hPa
TESTED BY	Sky Liao		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	11.30	0.5	PASS
6	2437	10.85	0.5	PASS
11	2462	10.80	0.5	PASS

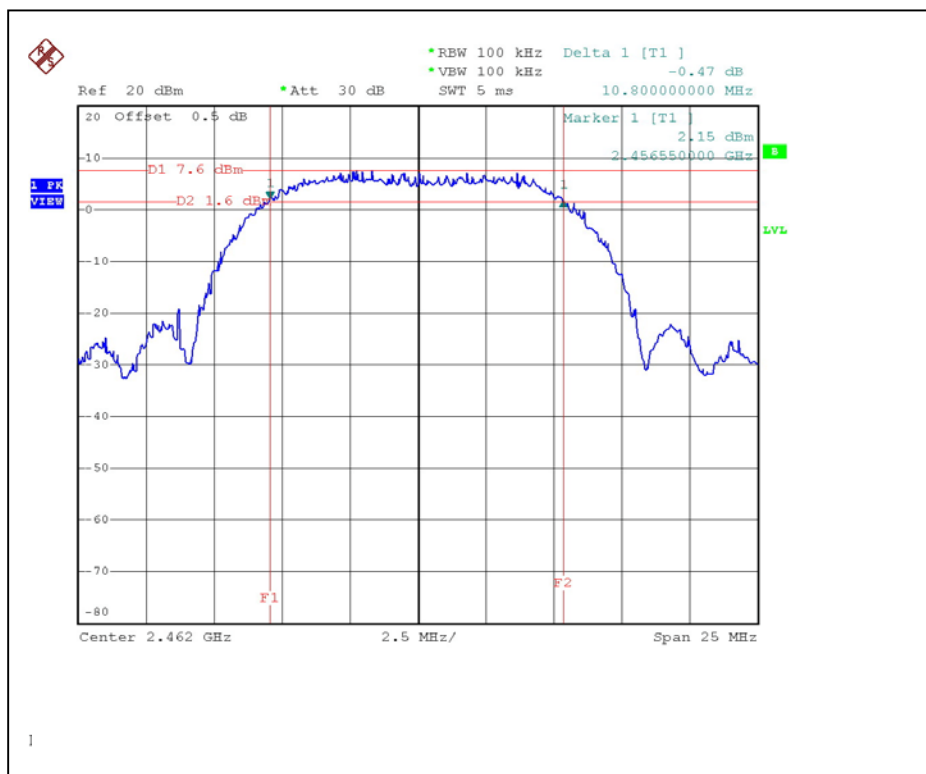
CH1



CH6



CH11

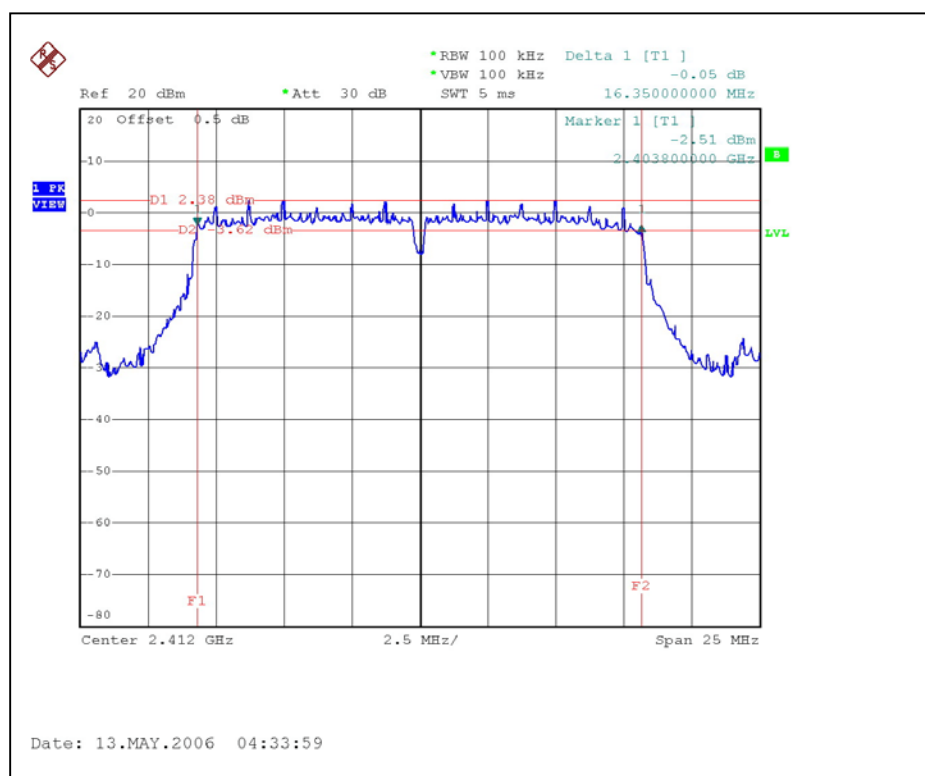


802.11g OFDM MODULATION:

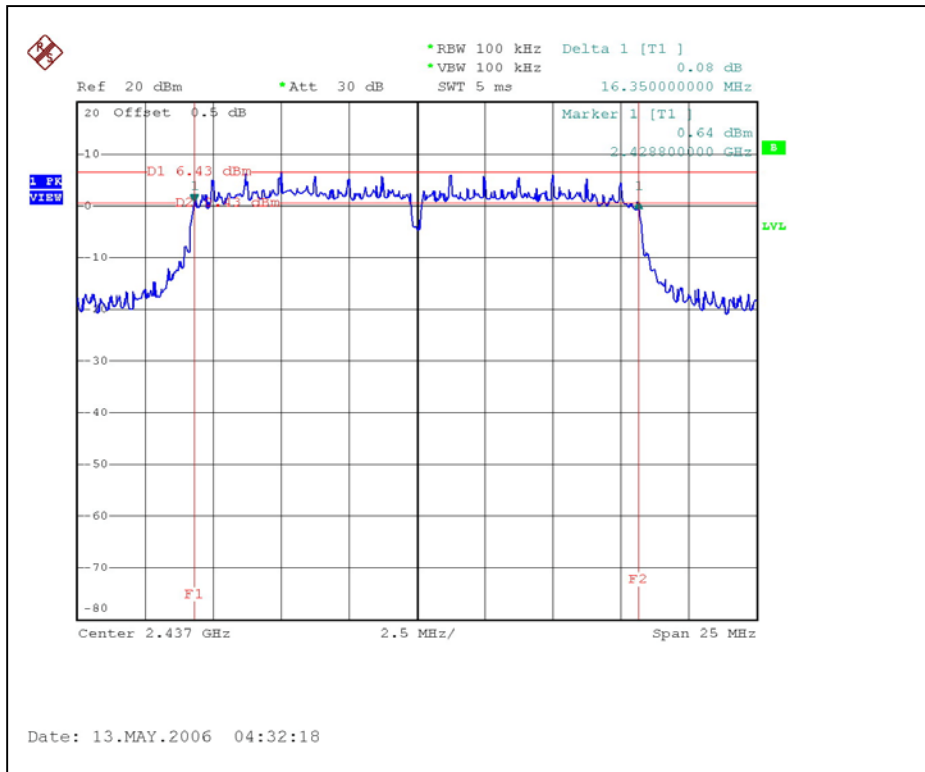
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 68%RH, 962hPa
TESTED BY	Sky Liao		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.35	0.5	PASS
6	2437	16.35	0.5	PASS
11	2462	16.35	0.5	PASS

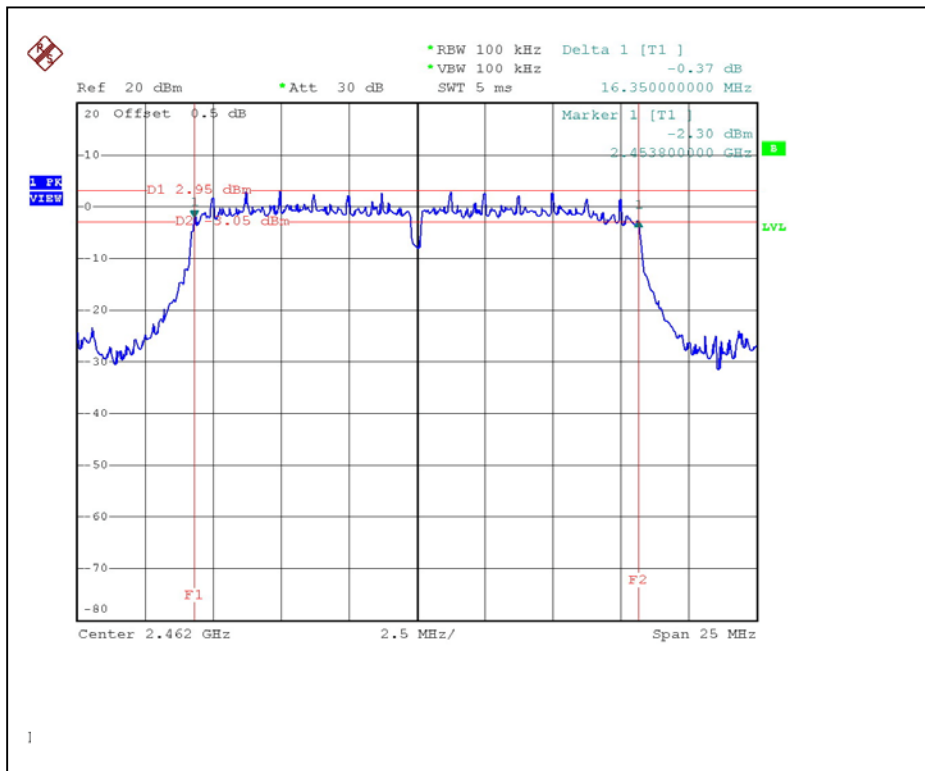
CH1



CH6



CH11

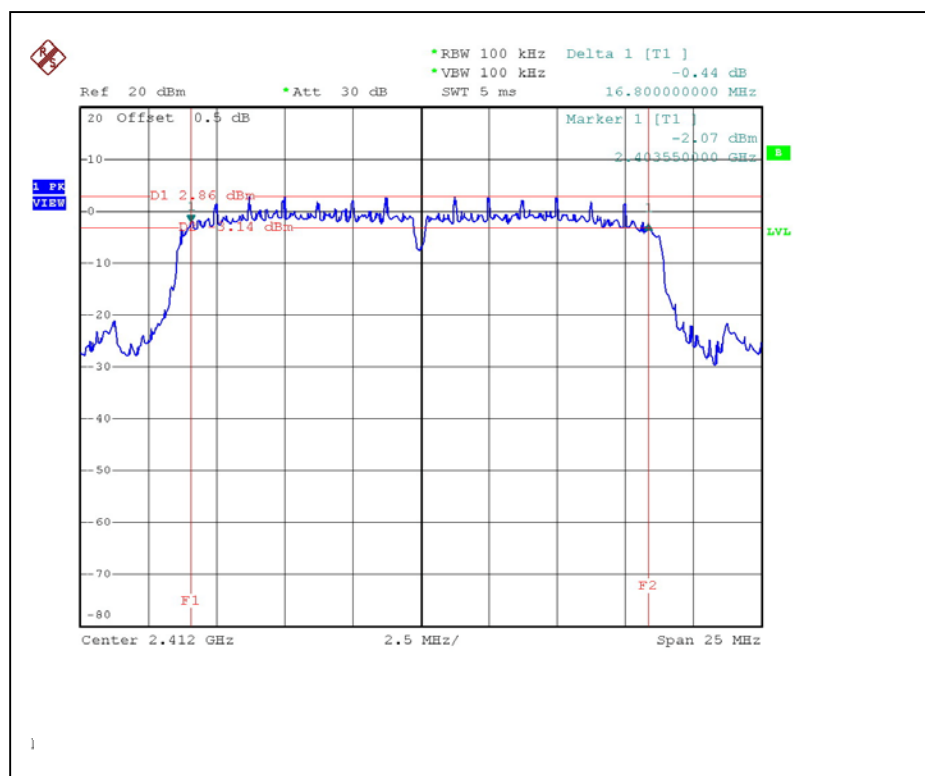


DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

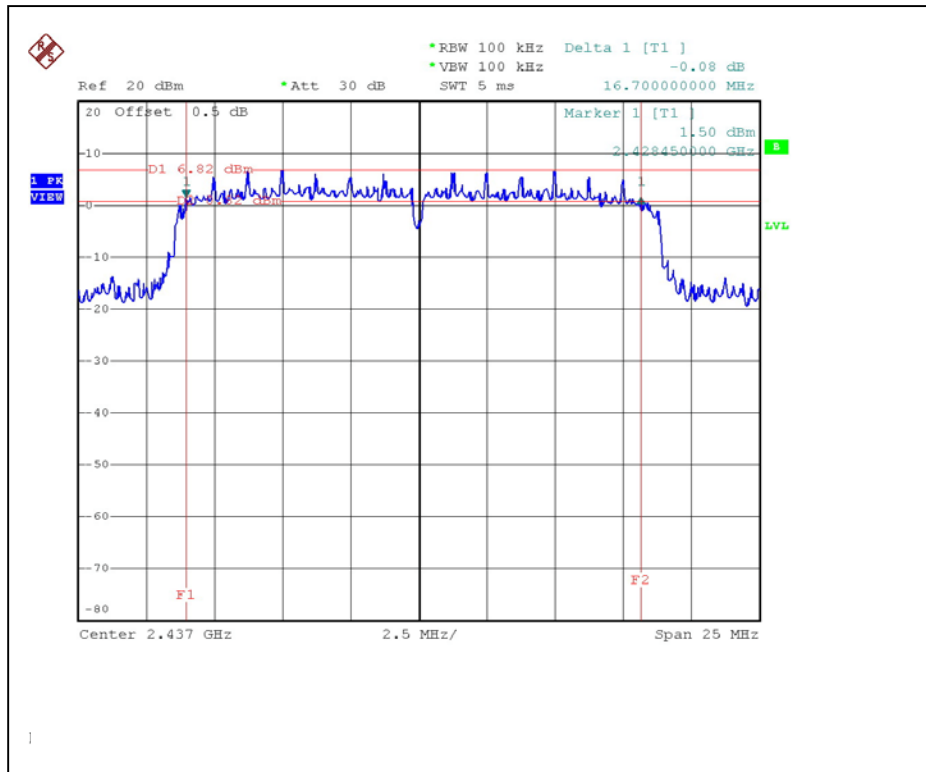
MODULATION TYPE	BPSK	TRANSFER RATE	6.5Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 68%RH, 962hPa
TESTED BY	Sky Liao		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.80	16.85	0.5	PASS
6	2437	16.70	16.60	0.5	PASS
11	2462	16.90	16.90	0.5	PASS

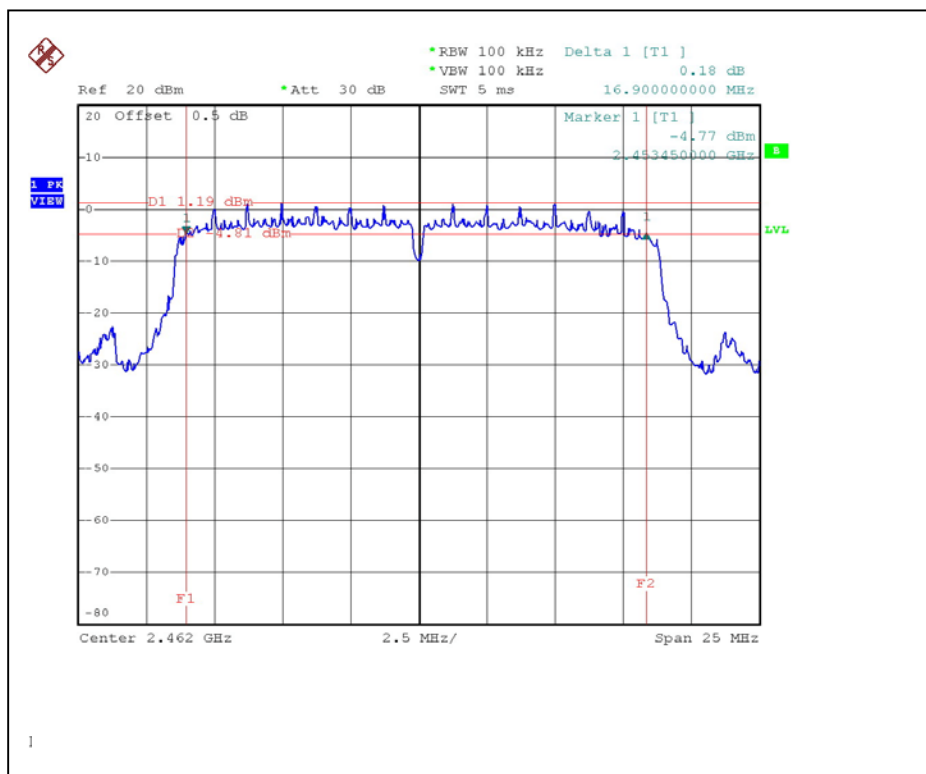
FOR CHAIN 0: CH1



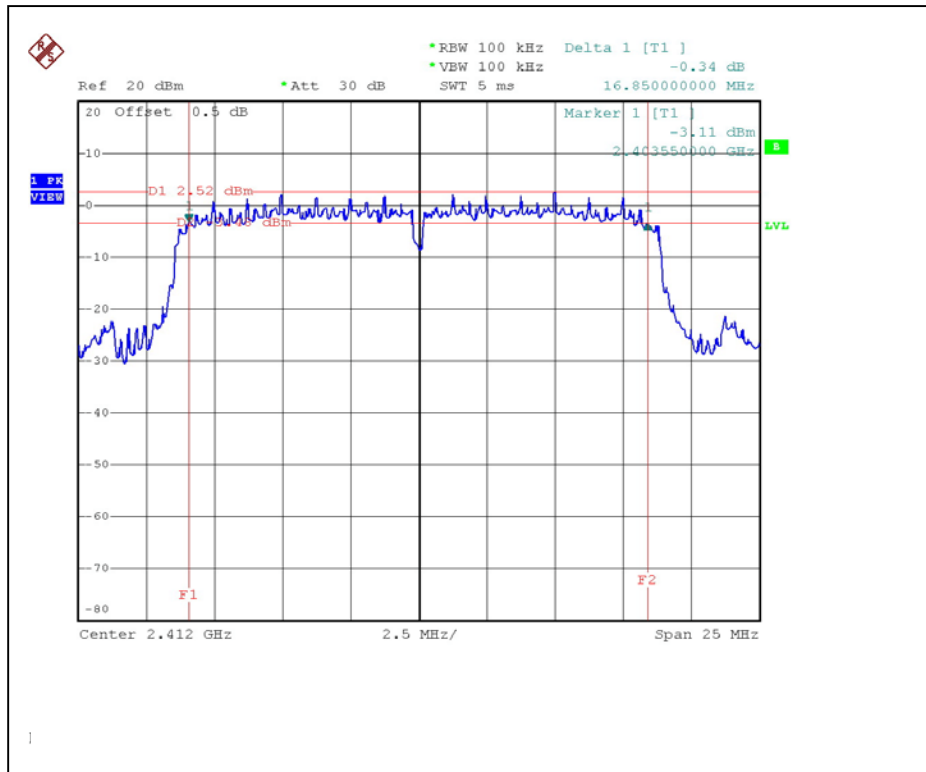
CH6



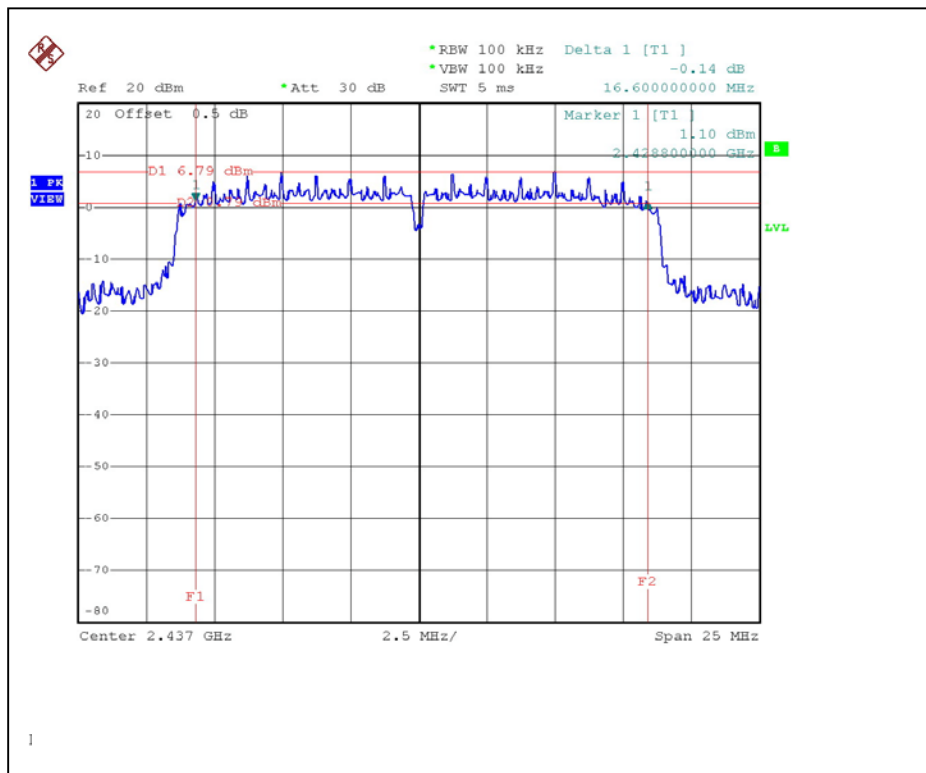
CH11



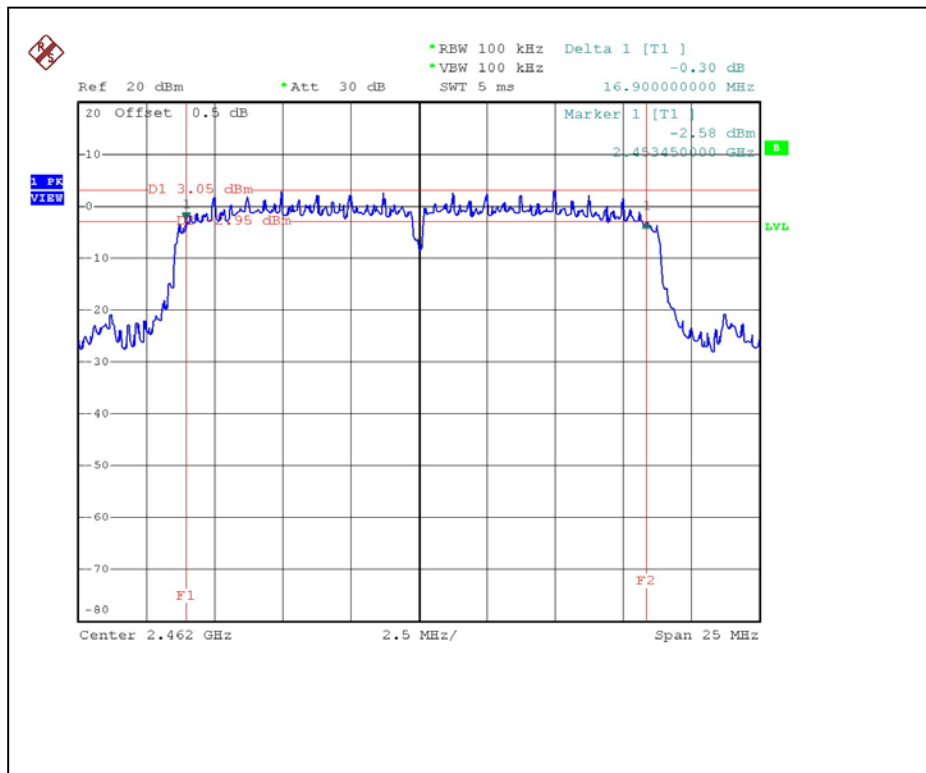
FOR CHAIN 1: CH1



CH6



CH11

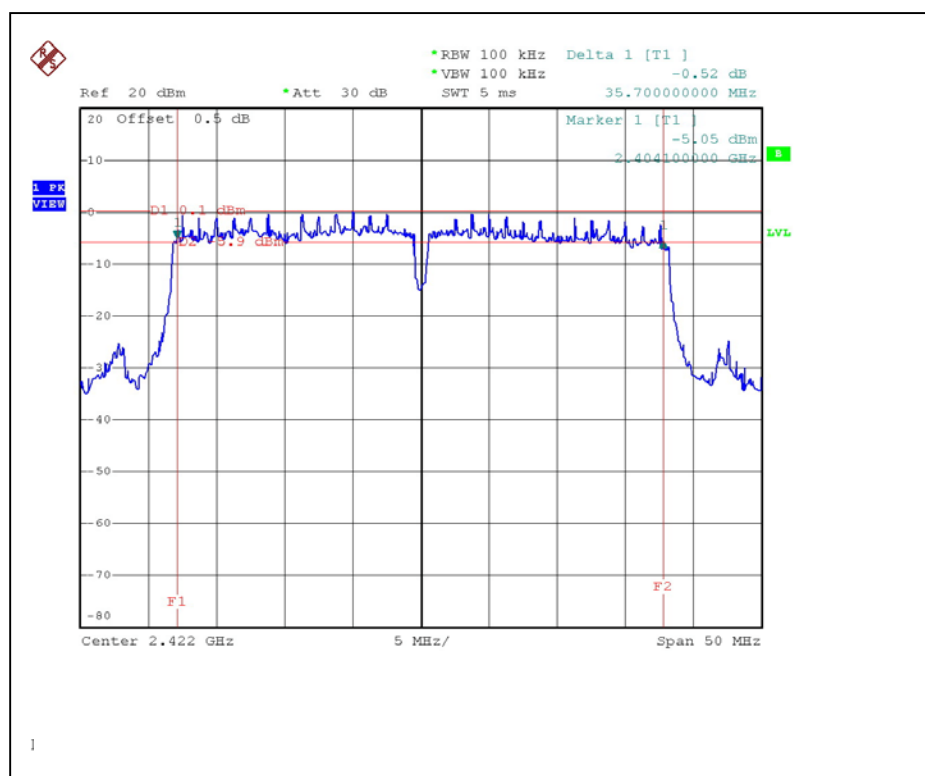


DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

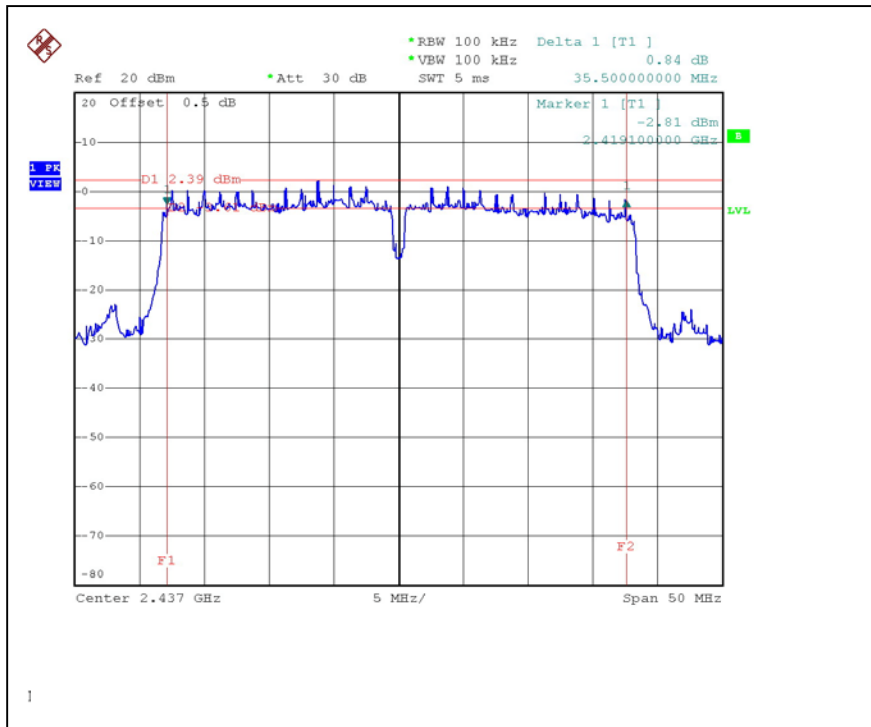
MODULATION TYPE	BPSK	TRANSFER RATE	13.5Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 68%RH, 962hPa
TESTED BY	Sky Liao		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	35.7	36.1	0.5	PASS
4	2437	35.5	36.1	0.5	PASS
7	2452	36.1	35.8	0.5	PASS

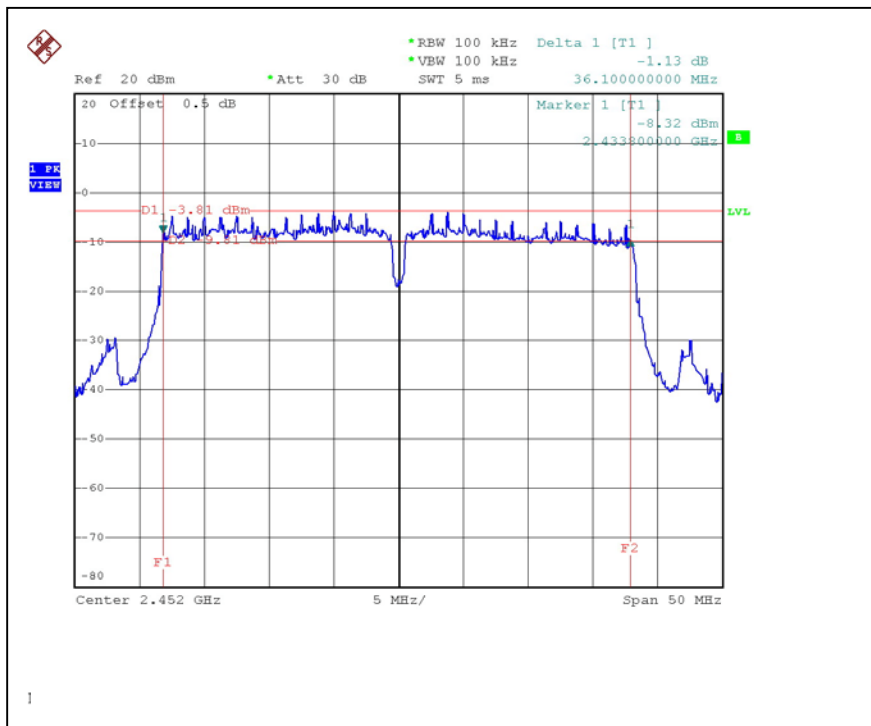
FOR CHAIN 0: CH1



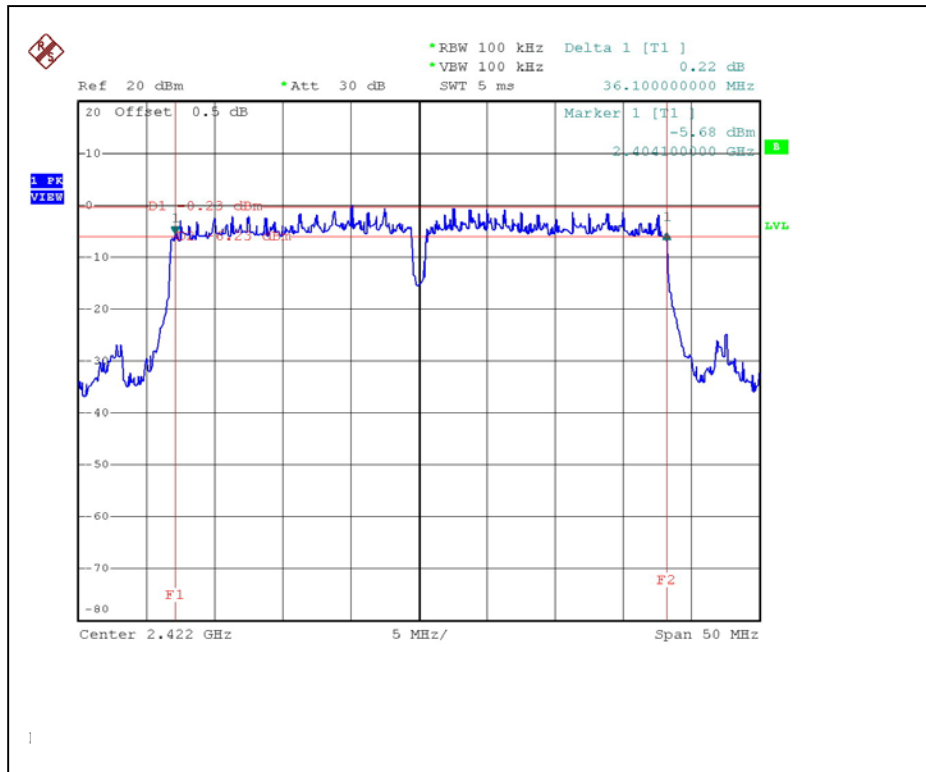
CH4



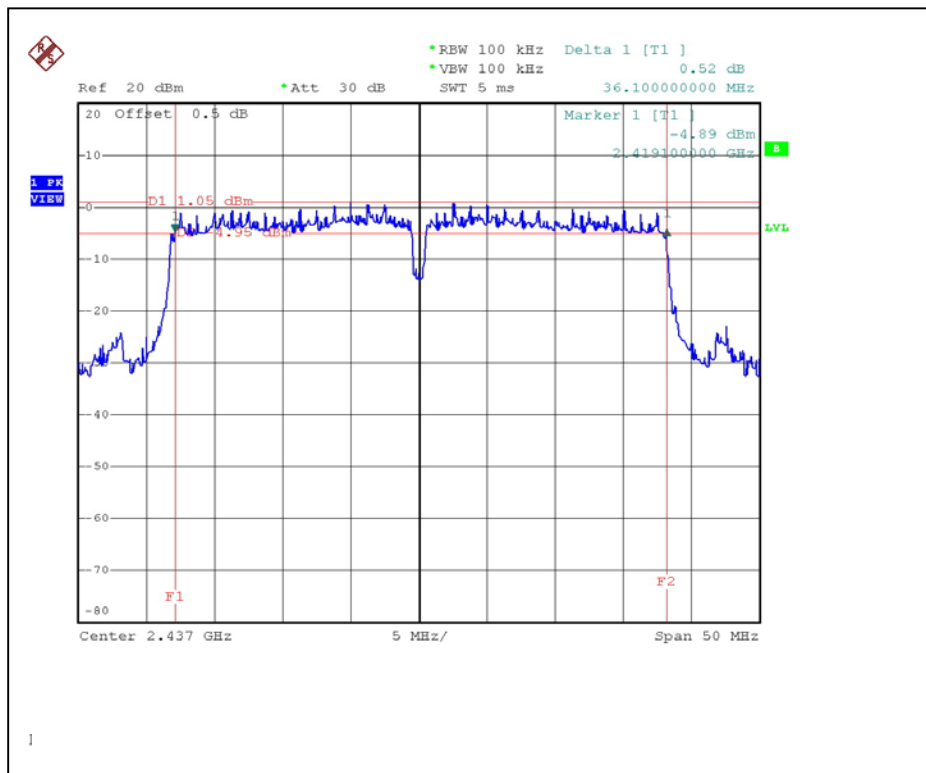
CH7



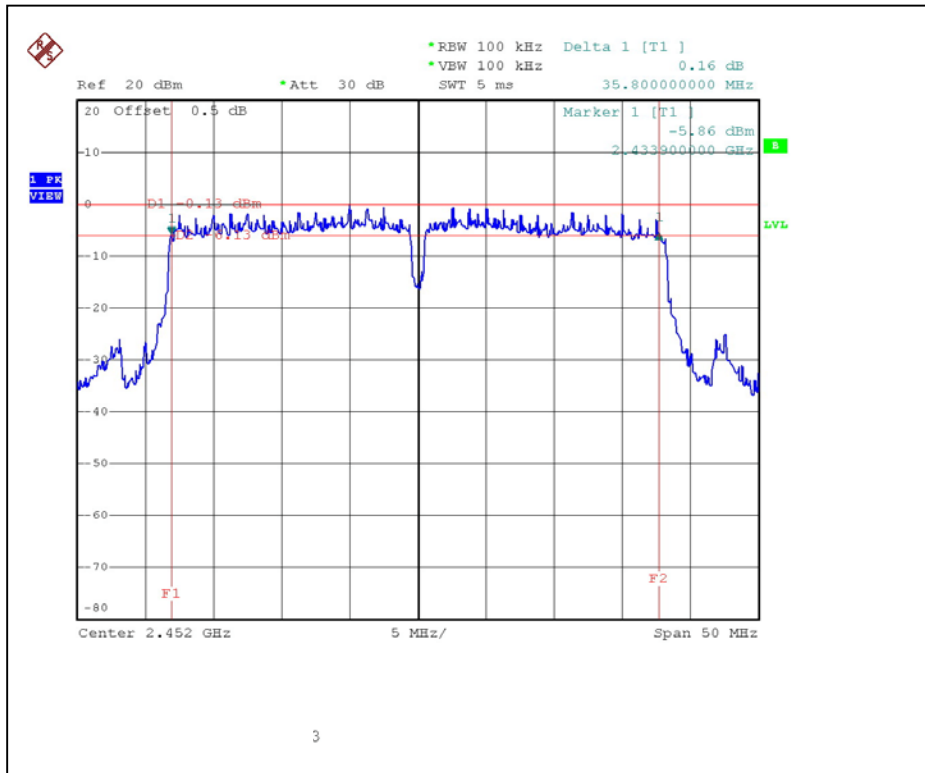
FOR CHAIN 1: CH1



CH4



CH7





4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2006

NOTE:

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

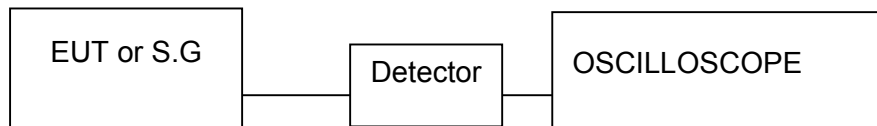
4.4.3 TEST PROCEDURES

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

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.3 TEST SETUP



4.4.5 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS

802.11b DSSS MODULATION:

MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 68%RH, 962hPa
TESTED BY	Sky Liao		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	84.140	19.25	30	PASS
6	2437	133.352	21.25	30	PASS
11	2462	105.925	20.25	30	PASS

802.11g OFDM MODULATION:

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 68%RH, 962hPa
TESTED BY	Sky Liao		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	103.514	20.15	30	PASS
6	2437	188.365	22.75	30	PASS
11	2462	98.855	19.95	30	PASS

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

MODULATION TYPE	BPSK	TRANSFER RATE	6.5Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 68%RH, 962hPa
TESTED BY	Sky Liao		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	84.14	90.16	19.25	19.55	174.297	22.4	30	PASS
6	2437	188.36	199.53	22.75	23.00	387.891	25.9	30	PASS
11	2462	70.79	101.16	18.50	20.05	171.953	22.4	30	PASS

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

MODULATION TYPE	BPSK	TRANSFER RATE	13.5Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	22deg.C, 68%RH, 962hPa
TESTED BY	Sky Liao		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2422	84.14	80.35	19.25	19.05	164.492	22.2	30	PASS
4	2437	103.51	102.33	20.15	20.10	205.844	23.1	30	PASS
7	2452	68.87	82.22	18.38	19.15	151.089	21.8	30	PASS