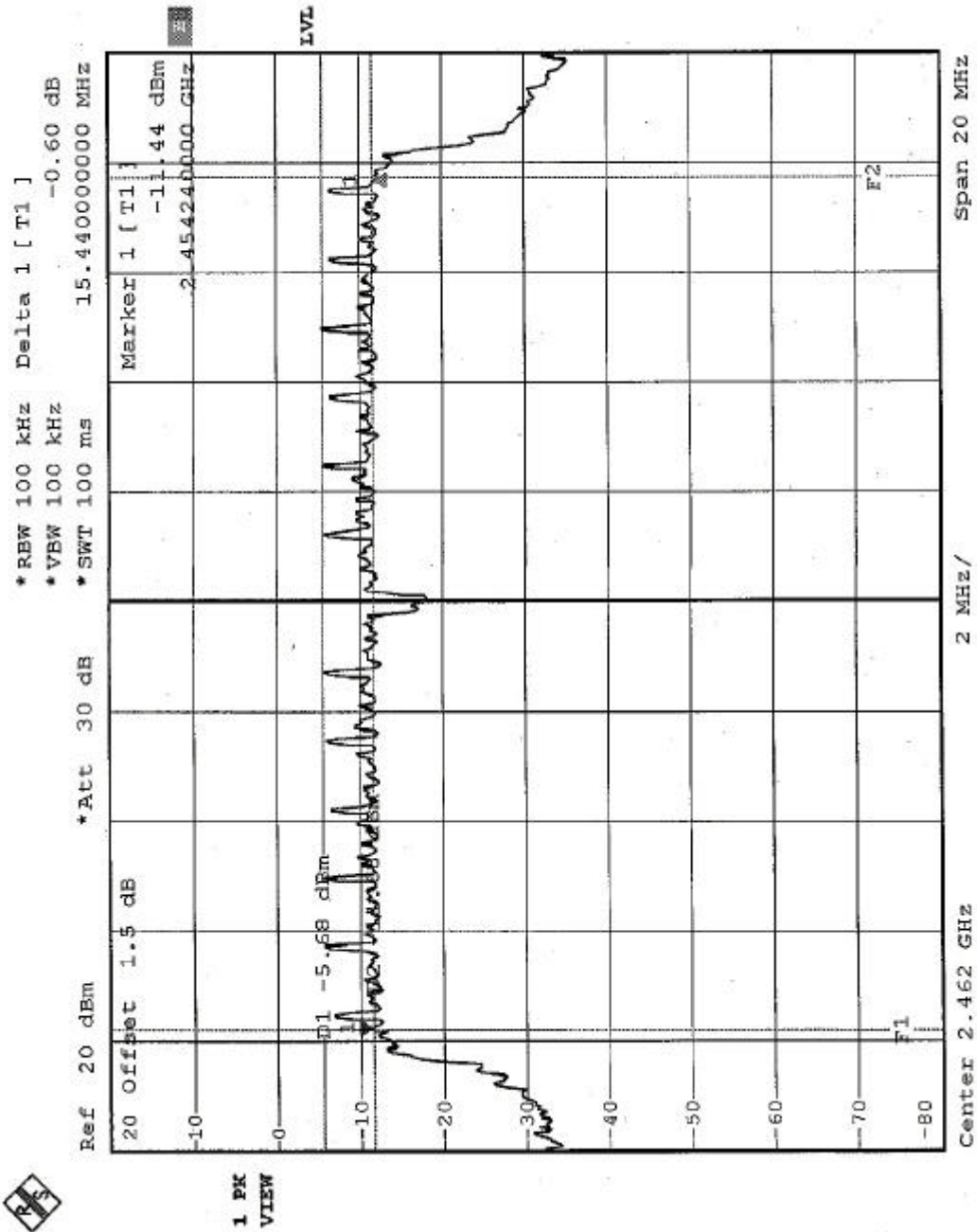




CH11





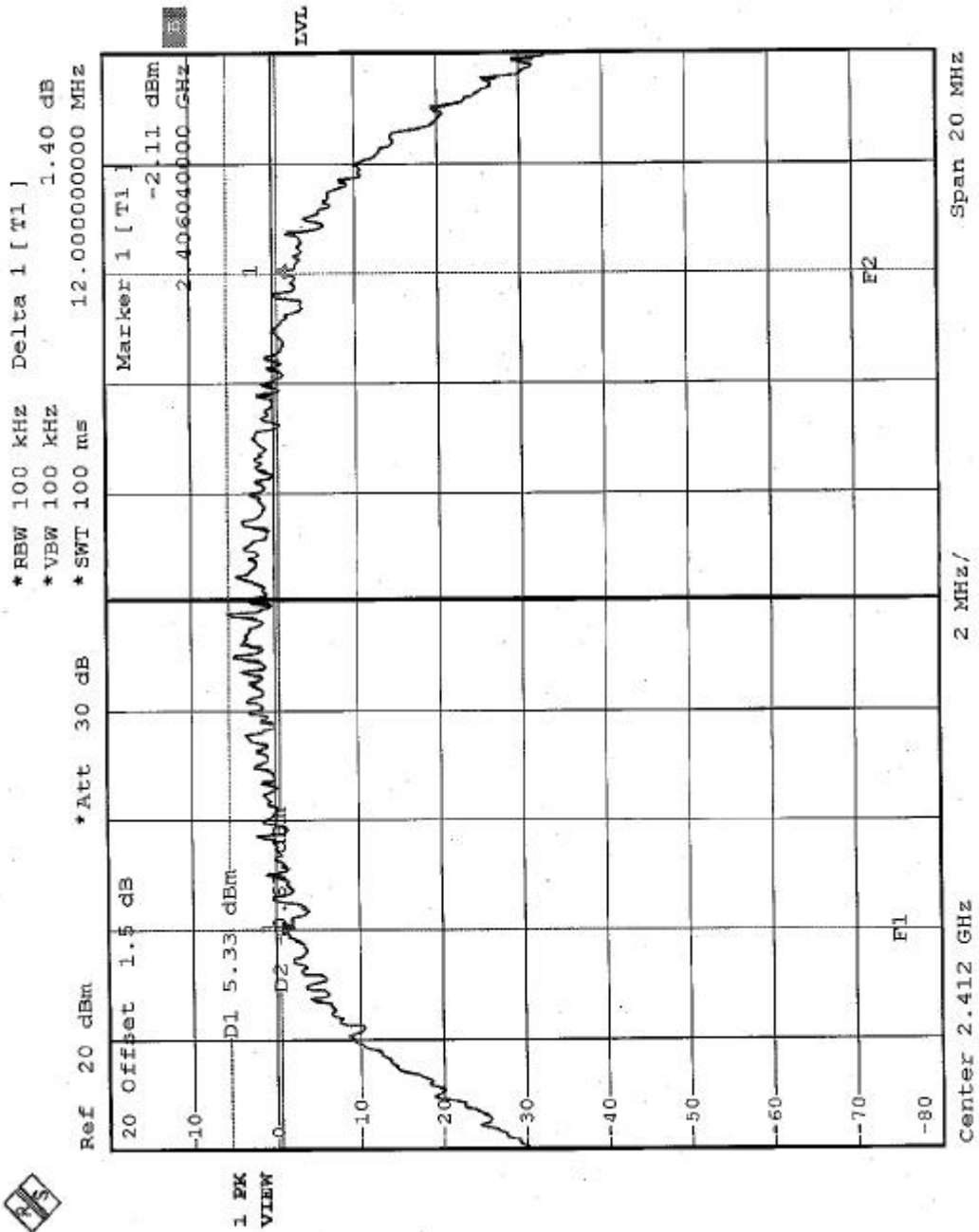
## 4.3.8 TEST RESULTS(B)-DSSS

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 2	<b>TESTED BY</b>	Hunk Chung

<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>6 dB BANDWIDTH (MHz)</b>	<b>MINIMUM LIMIT (MHz)</b>	<b>PASS/FAIL</b>
1	2412	12.00	0.5	PASS
6	2437	11.52	0.5	PASS
11	2462	11.48	0.5	PASS

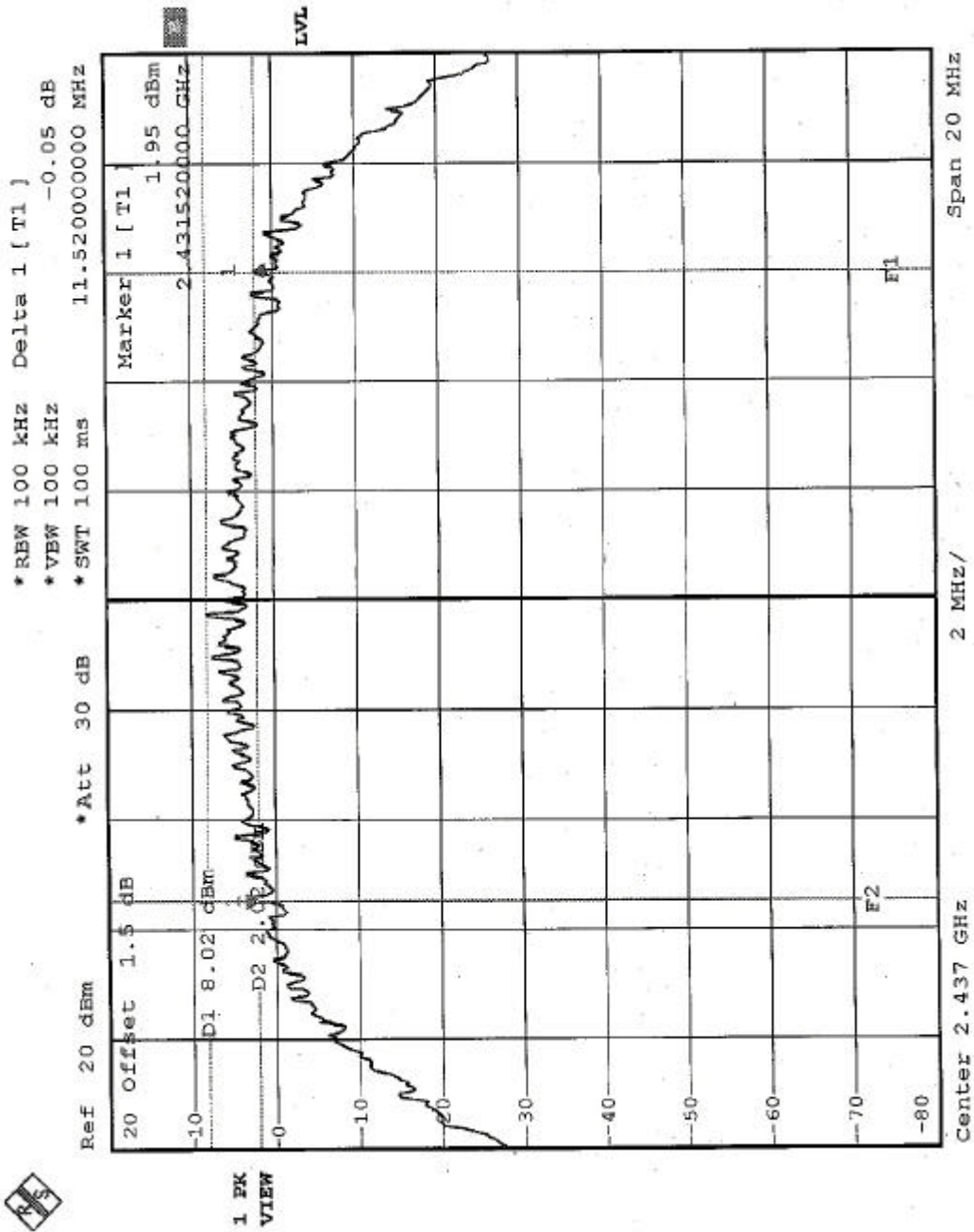


CH1



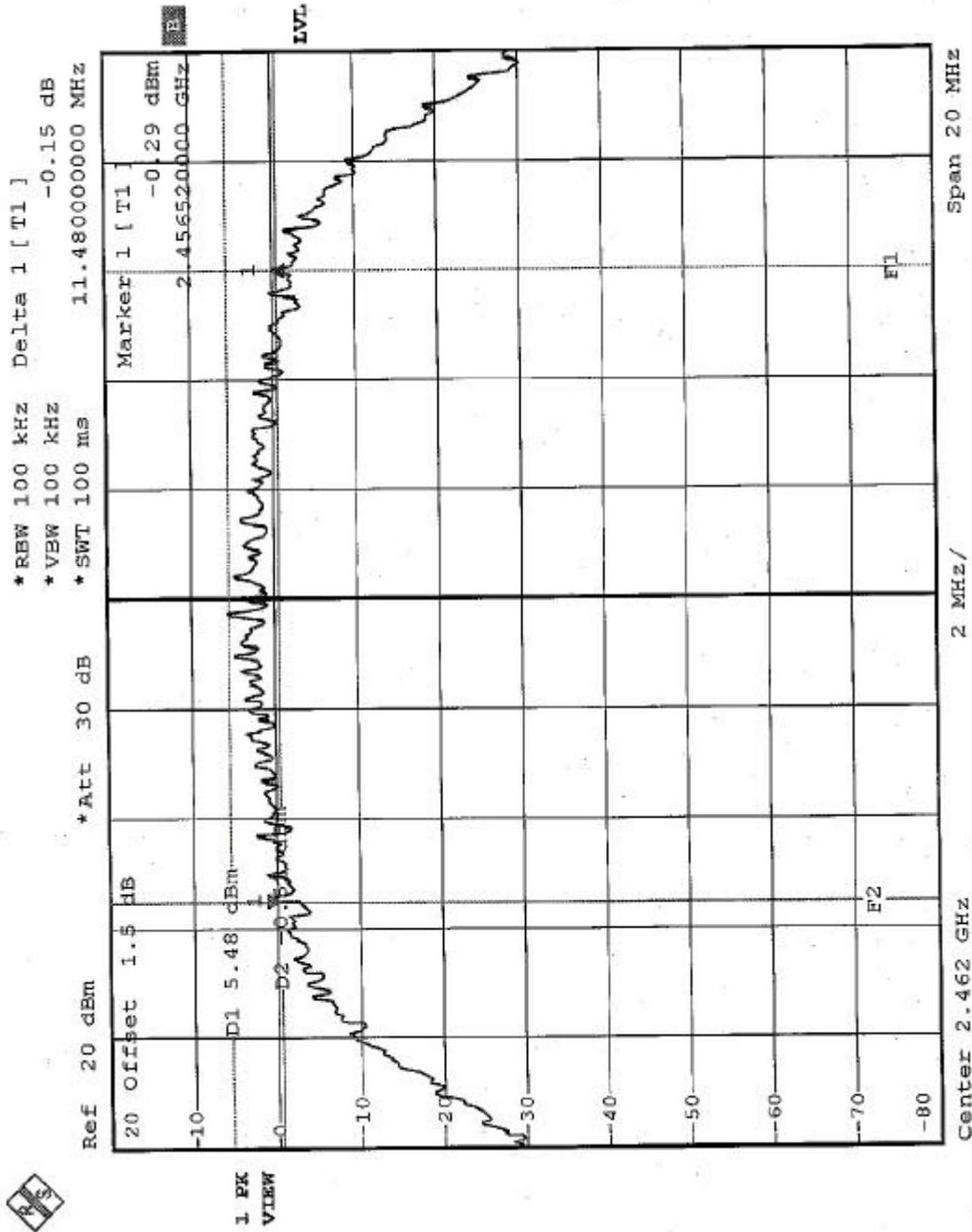


CH6





CH11





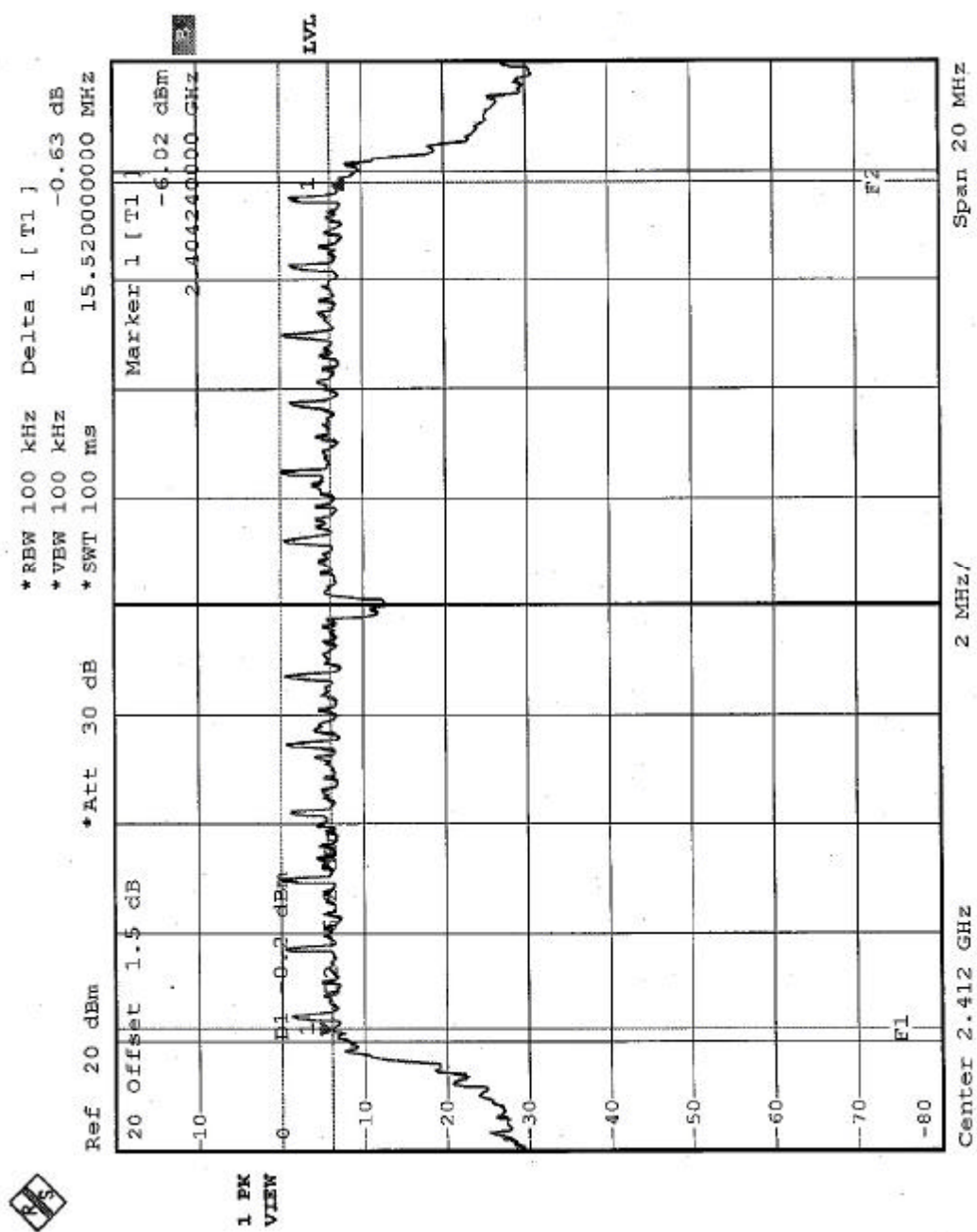
## 4.3.9 TEST RESULTS(B)-OFDM

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 2	<b>TESTED BY</b>	Hunk Chung

<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>6 dB BANDWIDTH (MHz)</b>	<b>MINIMUM LIMIT (MHz)</b>	<b>PASS/FAIL</b>
1	2412	15.52	0.5	PASS
6	2437	15.24	0.5	PASS
11	2462	15.48	0.5	PASS

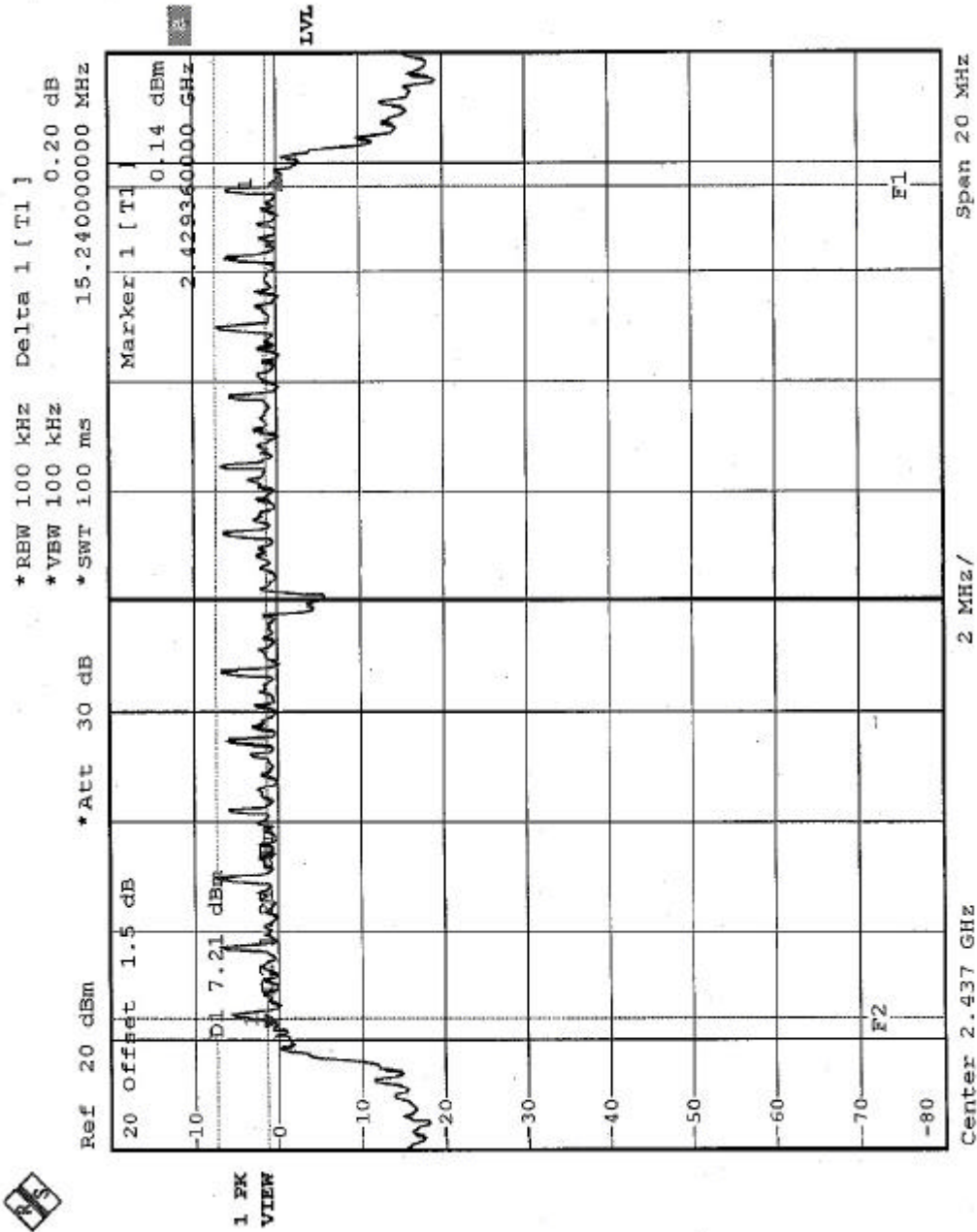


CH1





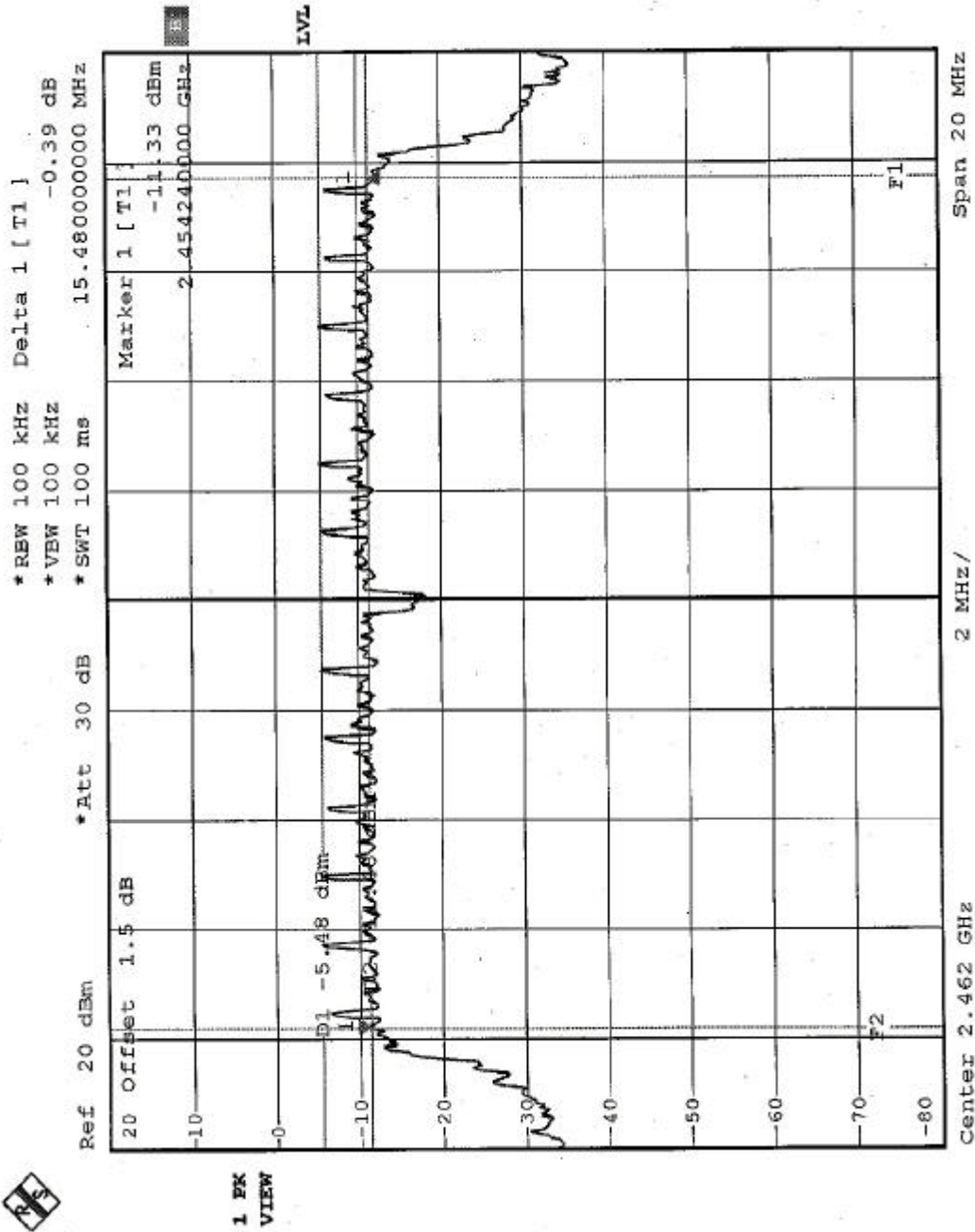
CH6







CH11





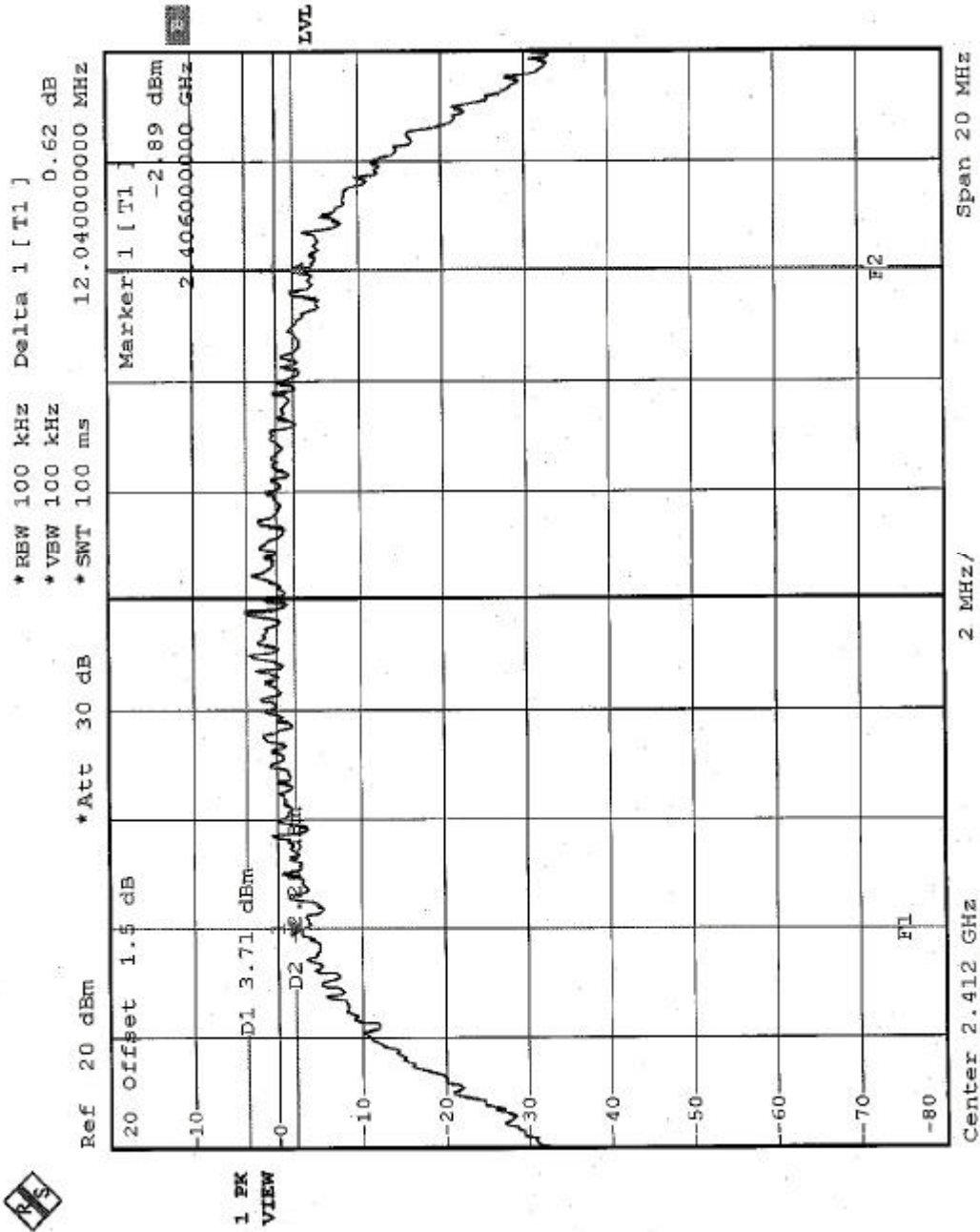
## 4.3.10 TEST RESULTS(C)-DSSS

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 3	<b>TESTED BY</b>	Hunk Chung

<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>6 dB BANDWIDTH (MHz)</b>	<b>MINIMUM LIMIT (MHz)</b>	<b>PASS/FAIL</b>
1	2412	12.04	0.5	PASS
6	2437	11.08	0.5	PASS
11	2462	11.48	0.5	PASS

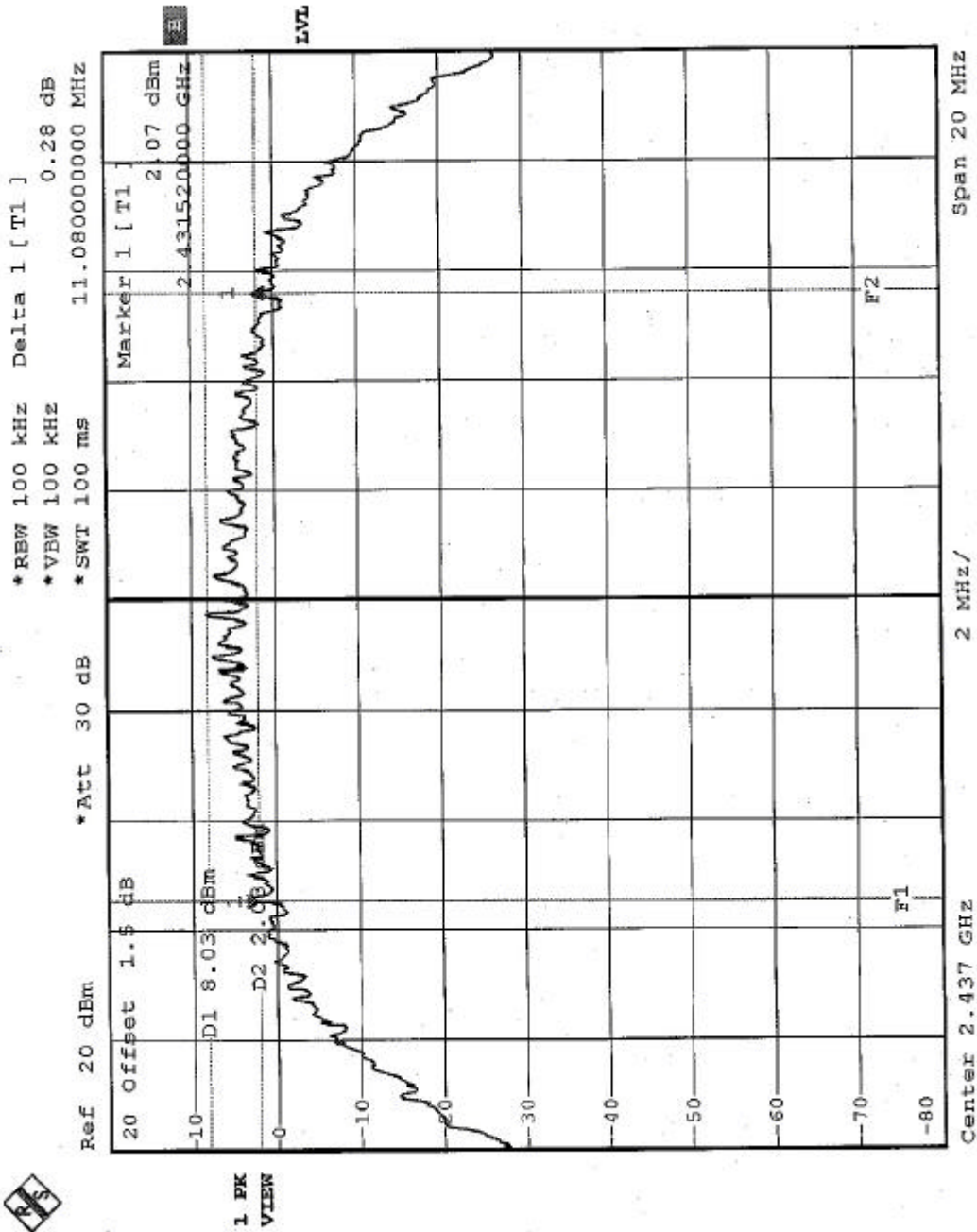


CH1



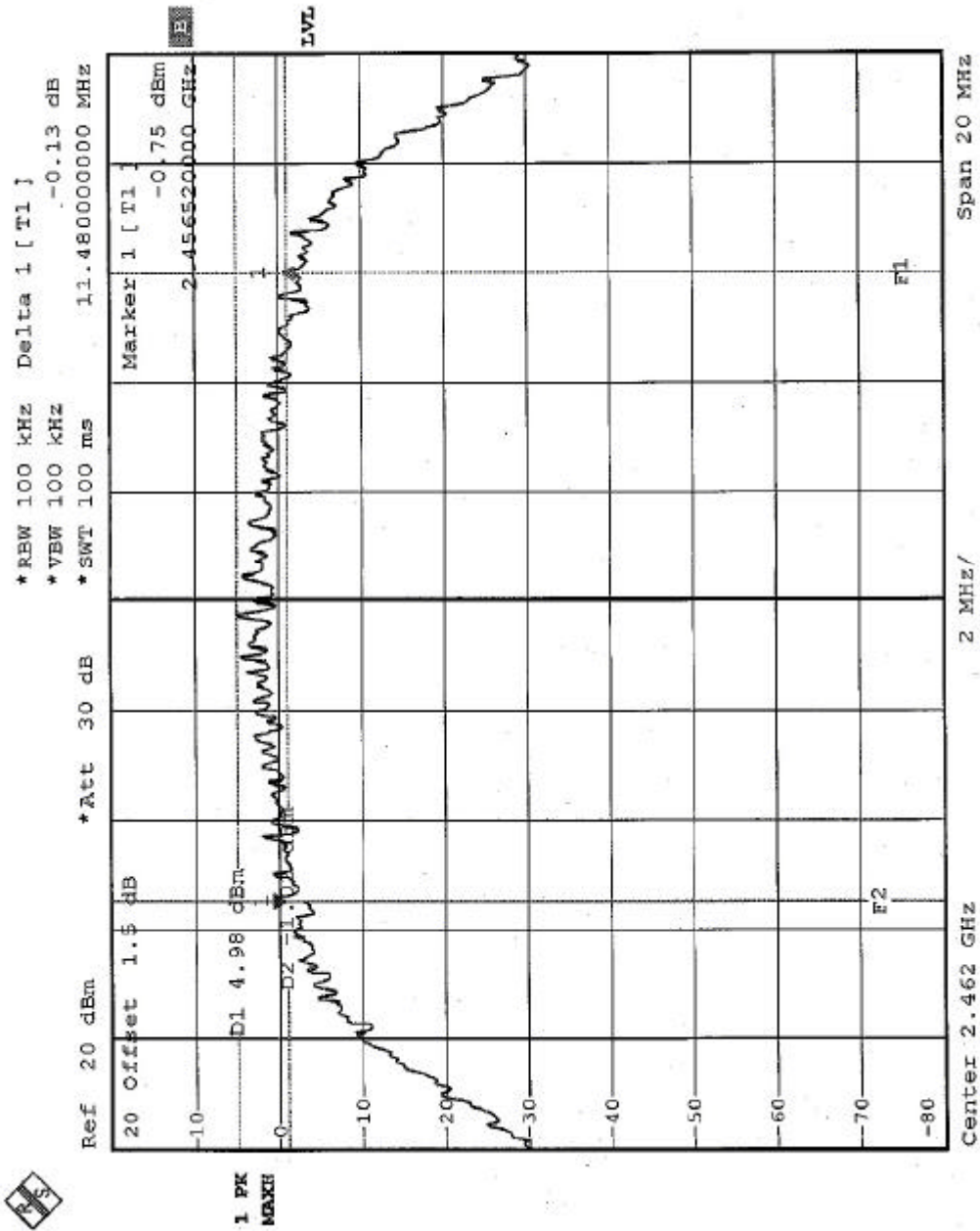


CH6





CH11





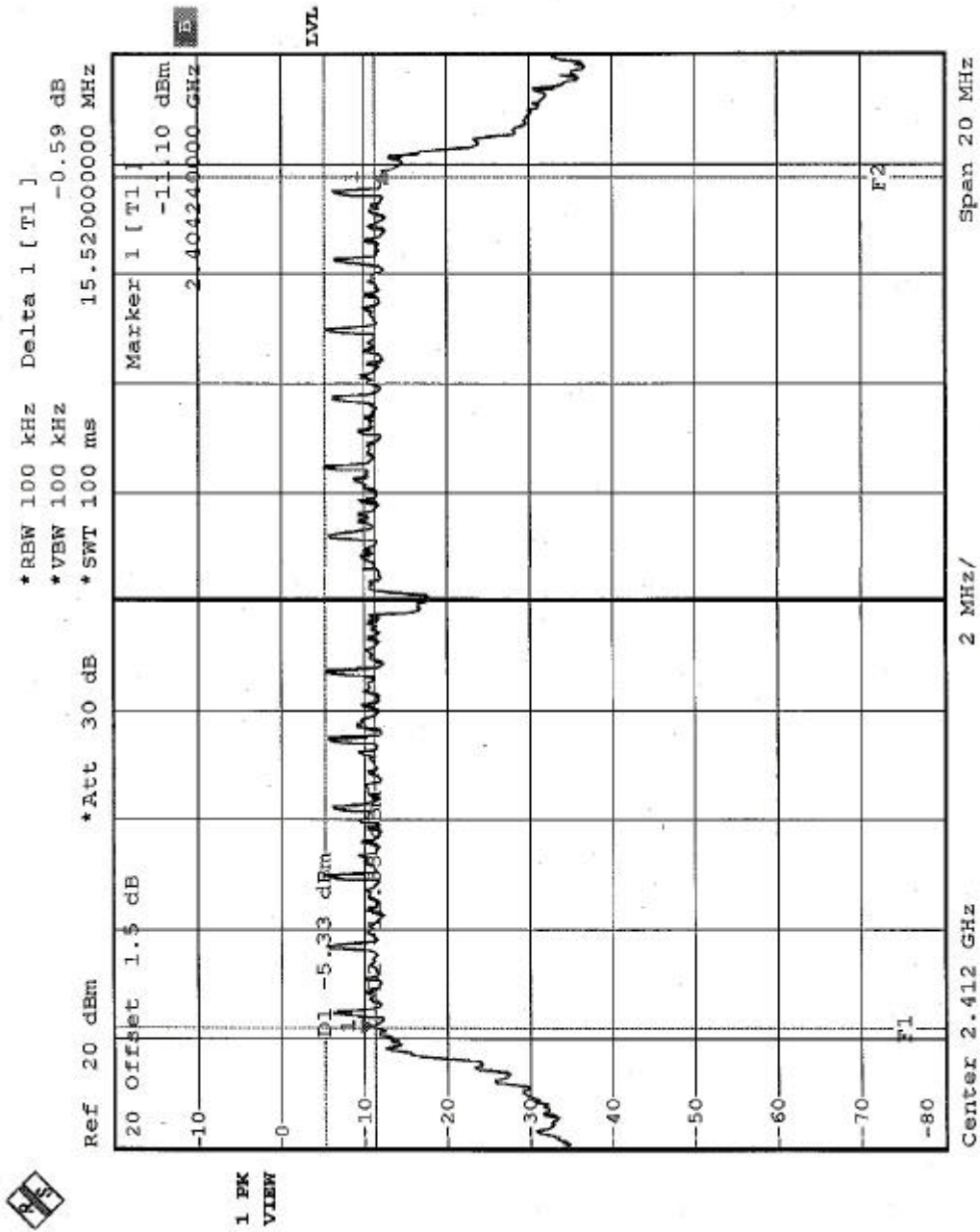
4.3.11 TEST RESULTS(C)-OFDM

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 3	<b>TESTED BY</b>	Hunk Chung

<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>6 dB BANDWIDTH (MHz)</b>	<b>MINIMUM LIMIT (MHz)</b>	<b>PASS/FAIL</b>
1	2412	15.52	0.5	PASS
6	2437	15.24	0.5	PASS
11	2462	15.60	0.5	PASS

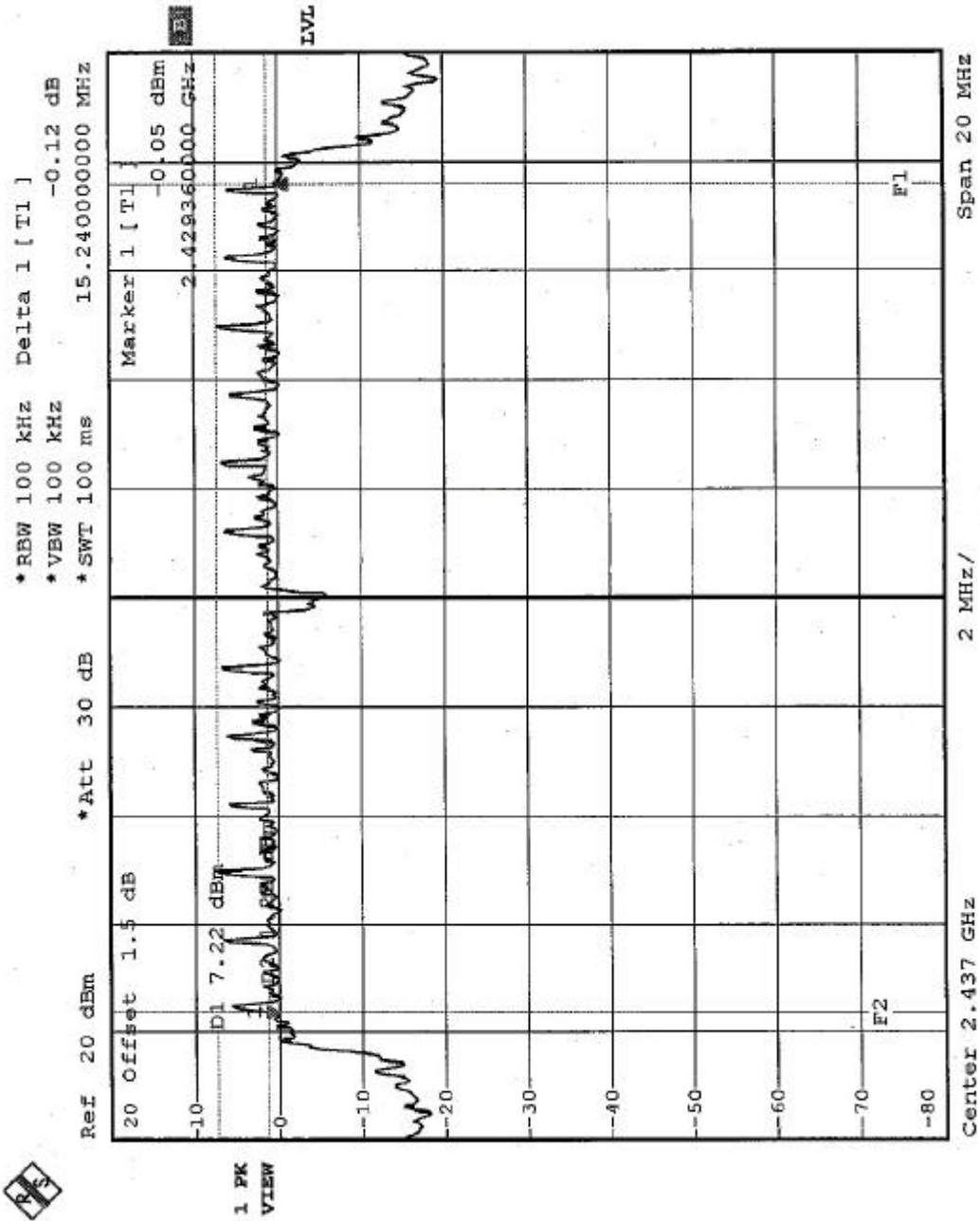


CH1





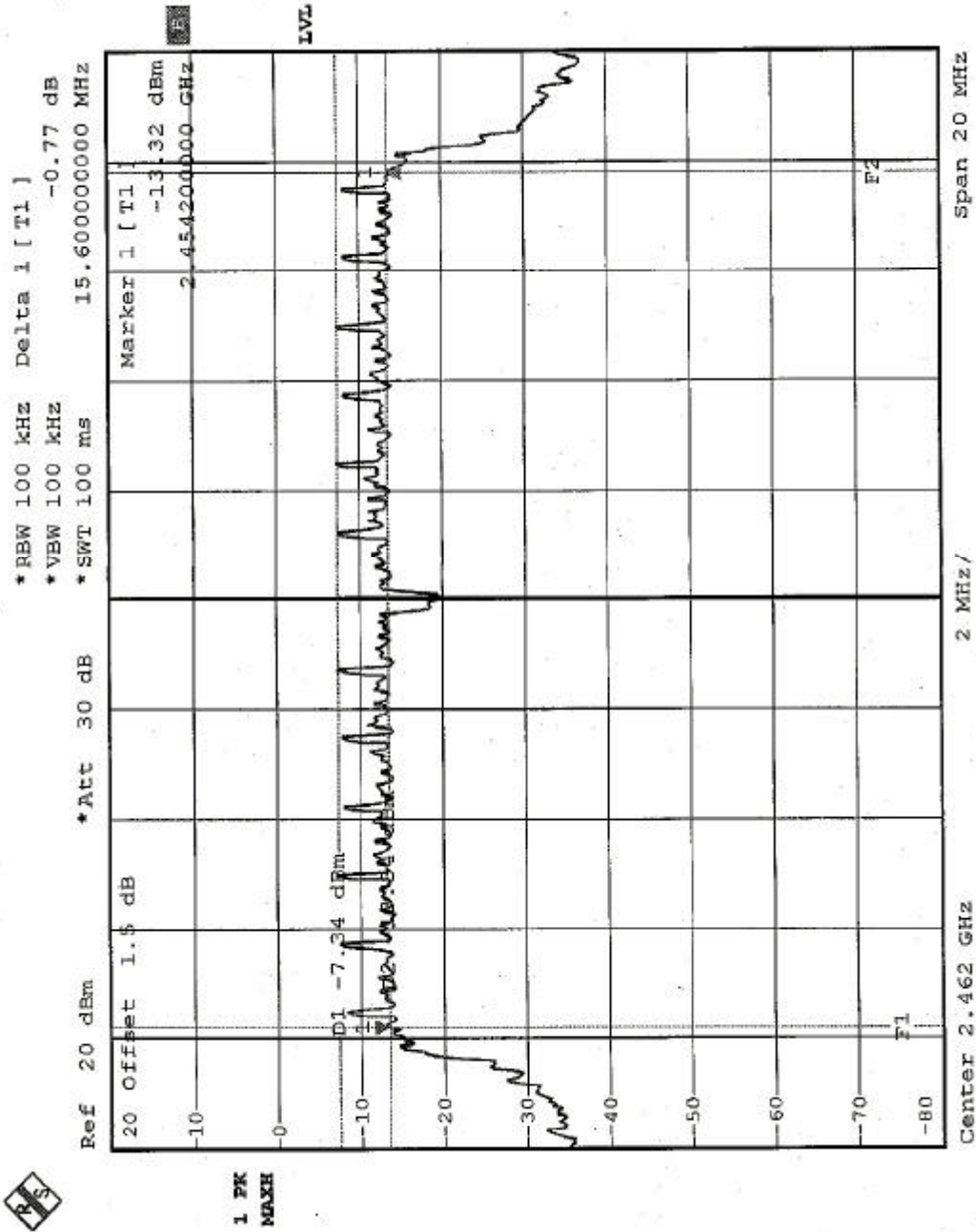
CH6







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#### 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 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
POWER METER	E4416A	GB41291118	July 30, 2003
PEAK POWER SENSOR	E9327A	US40440722	July 30, 2003

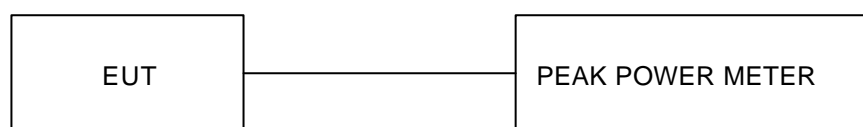
**NOTE:**

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.

#### 4.4.3 TEST PROCEDURES

The transmitter output was connected to the peak power meter.

#### 4.4.4 TEST SETUP



#### 4.4.5 EUT OPERATING CONDITIONS

Same as Item 4.3.5



## 4.4.6 TEST RESULTS(A)-DSSS

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 1	<b>TESTED BY</b>	Hank Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	11.97	30	PASS
6	2437	17.84	30	PASS
11	2462	13.55	30	PASS

## 4.4.7 TEST RESULTS(A)-OFDM

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 1	<b>TESTED BY</b>	Hank Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	6.34	30	PASS
6	2437	18.09	30	PASS
11	2462	5.27	30	PASS



## 4.4.8 TEST RESULTS(B)-DSSS

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 2	<b>TESTED BY</b>	Hank Chung

<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>PEAK POWER OUTPUT (dBm)</b>	<b>PEAK POWER LIMIT (dBm)</b>	<b>PASS/FAIL</b>
1	2412	15.05	30	PASS
6	2437	17.85	30	PASS
11	2462	15.38	30	PASS

## 4.4.9 TEST RESULTS(B)-OFDM

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 2	<b>TESTED BY</b>	Hank Chung

<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>PEAK POWER OUTPUT (dBm)</b>	<b>PEAK POWER LIMIT (dBm)</b>	<b>PASS/FAIL</b>
1	2412	10.48	30	PASS
6	2437	18.07	30	PASS
11	2462	5.40	30	PASS



## 4.4.10 TEST RESULTS(C)-DSSS

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 3	<b>TESTED BY</b>	Hank Chung

<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>PEAK POWER OUTPUT (dBm)</b>	<b>PEAK POWER LIMIT (dBm)</b>	<b>PASS/FAIL</b>
1	2412	13.50	30	PASS
6	2437	17.86	30	PASS
11	2462	14.94	30	PASS

## 4.4.11 TEST RESULTS(C)-OFDM

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 3	<b>TESTED BY</b>	Hank Chung

<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>PEAK POWER OUTPUT (dBm)</b>	<b>PEAK POWER LIMIT (dBm)</b>	<b>PASS/FAIL</b>
1	2412	5.83	30	PASS
6	2437	18.10	30	PASS
11	2462	3.80	30	PASS



## 4.5 POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

### 4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 2003

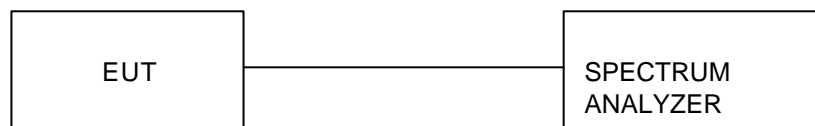
**NOTE:**

- 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.

#### 4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded. The sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

#### 4.5.4 TEST SETUP



#### 4.5.5 EUT OPERATING CONDITIONS

Same as 4.3.5





## 4.5.6 TEST RESULTS(A)-DSSS

<b>EUT</b>	IEEE 802.11g miniPCI	<b>MODEL</b>	WN4401
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 60 %RH, 979 hPa
<b>TEST MODE</b>	Antenna 1	<b>TESTED BY</b>	Hank Chung

<b>CHANNEL NUMBER</b>	<b>CHANNEL FREQUENCY (MHz )</b>	<b>RF POWER LEVEL IN 3 KHz BW (dBm)</b>	<b>MAXIMUM LIMIT (dBm)</b>	<b>PASS/FAIL</b>
1	2412	-11.72	8	PASS
6	2437	-6.15	8	PASS
11	2462	-10.56	8	PASS



CH1

