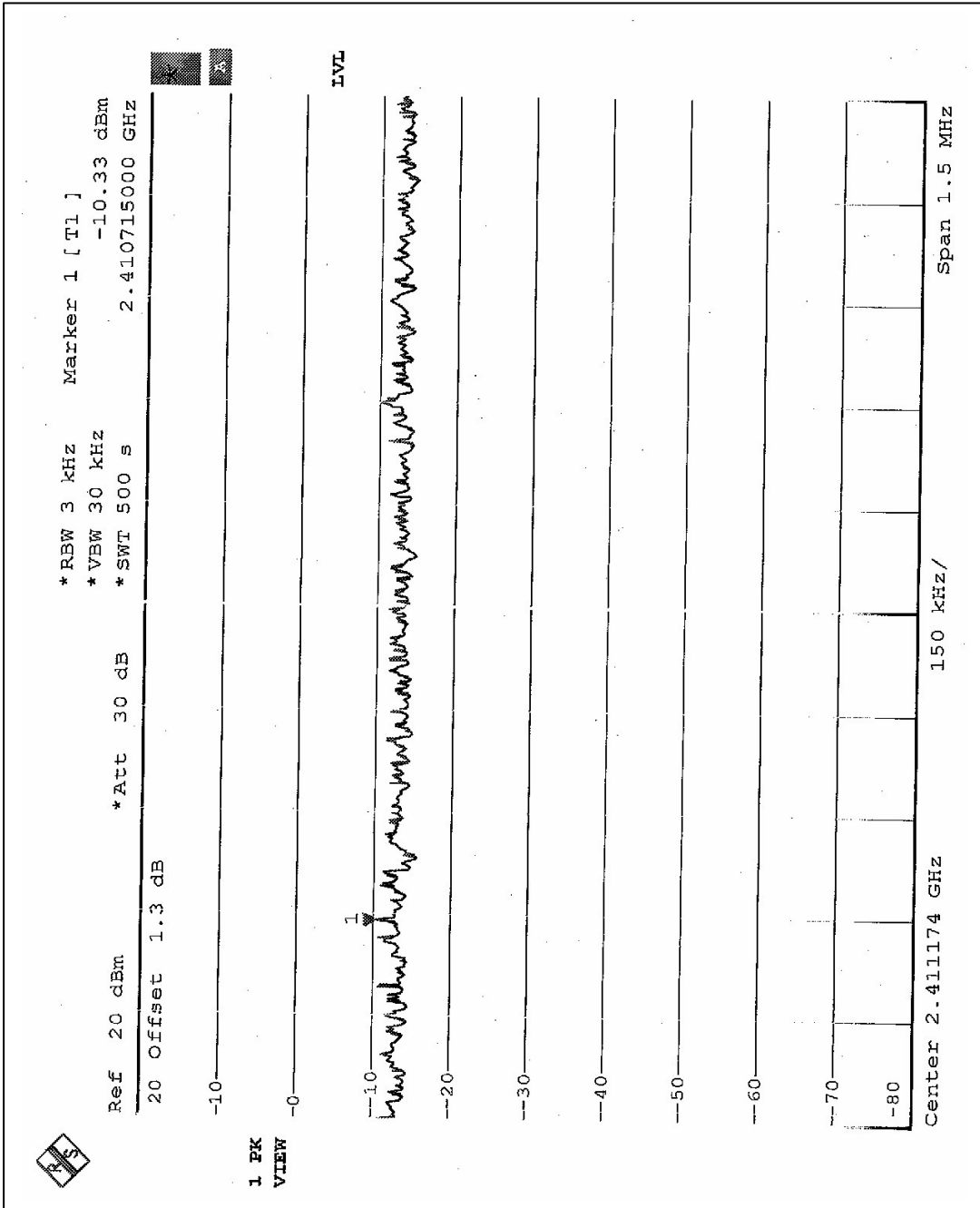


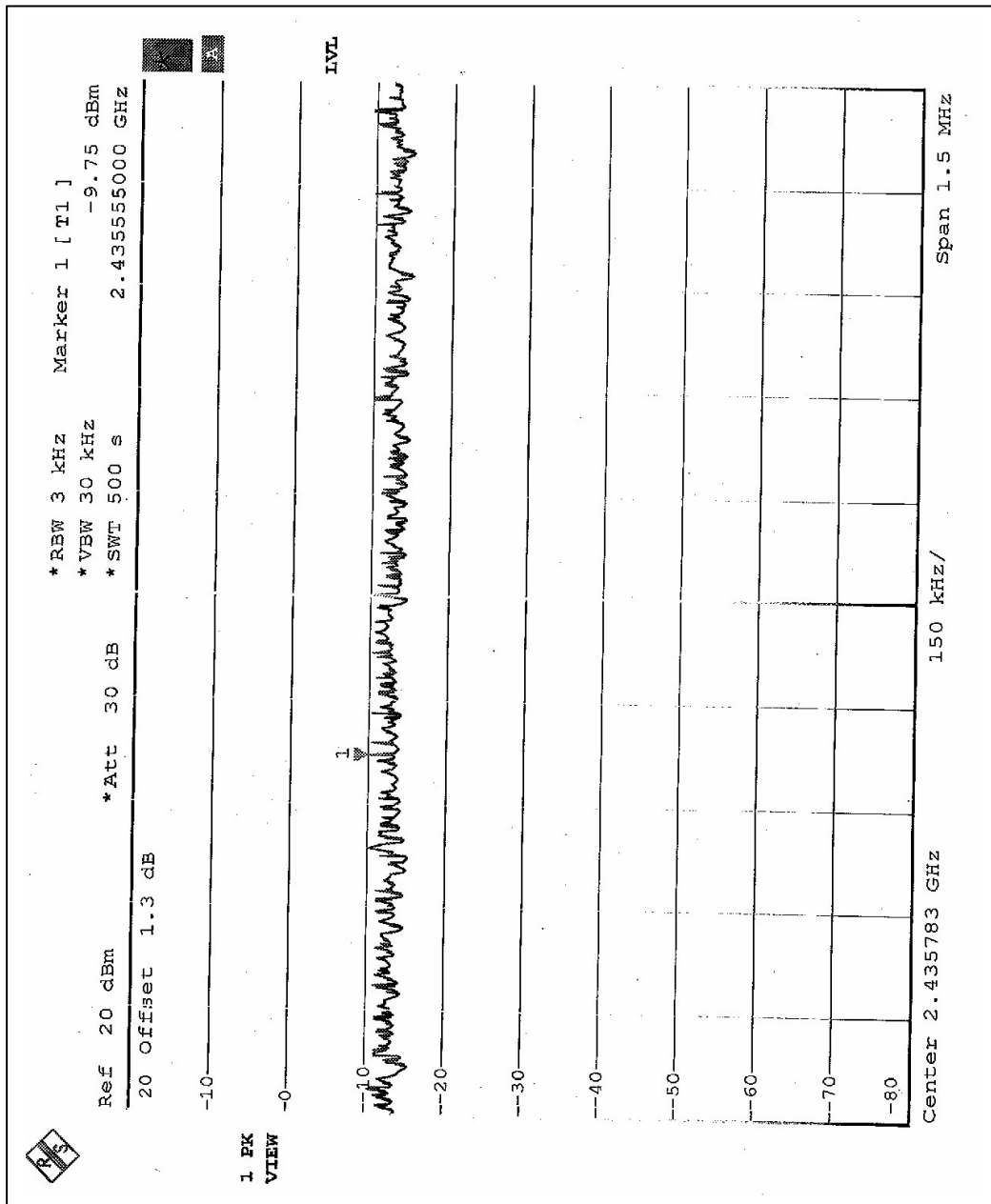


CH1



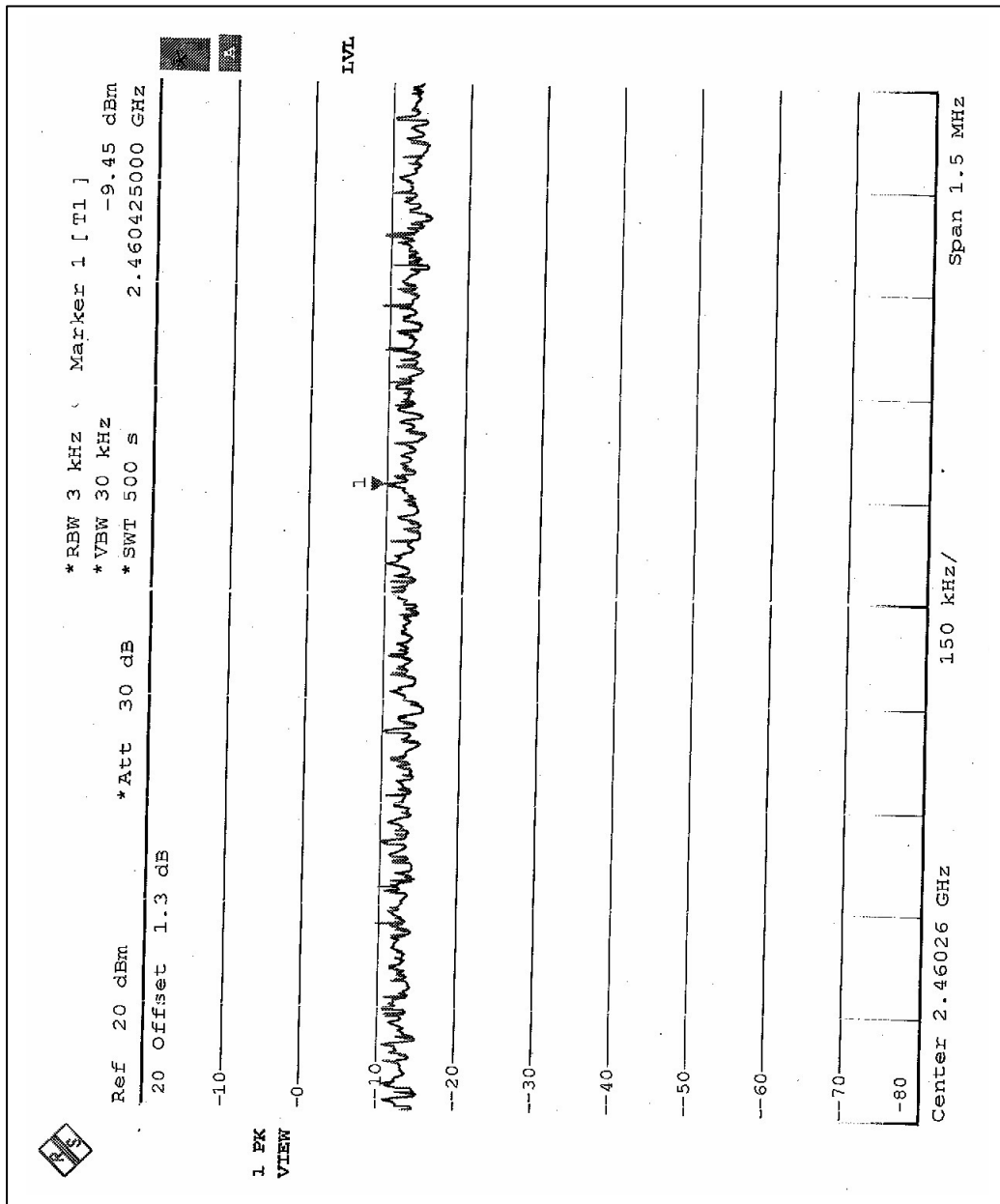


CH6





CH11



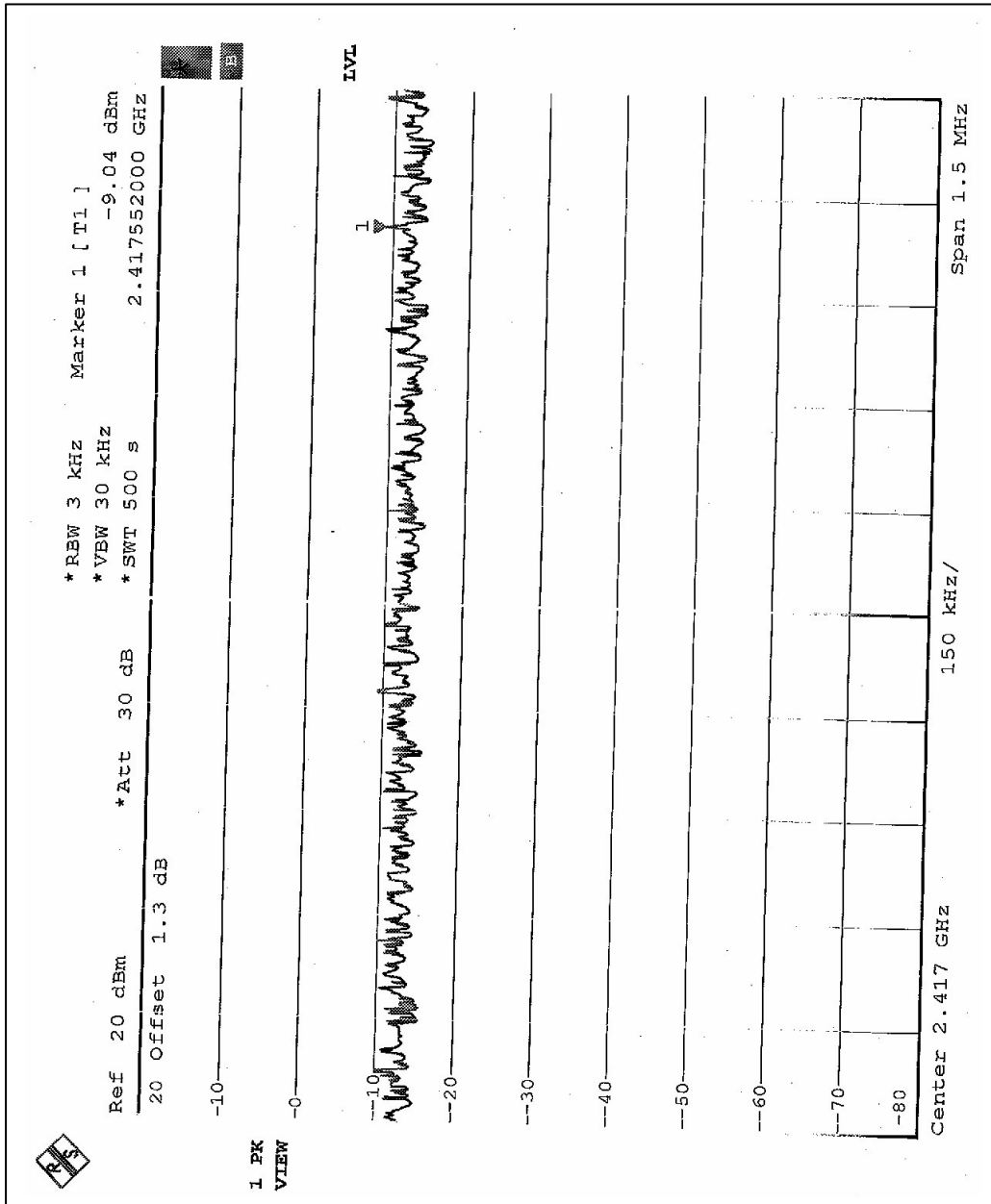


EUT	802.11b/g MiniPCI Module	MODEL	G11FNF
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26 deg. C, 59 %RH, 979 hPa
TEST MODE	Antenna 2	TESTED BY	Hank Chung

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
2	2417	-9.36	8	PASS
6	2437	-9.75	8	PASS
10	2457	-9.30	8	PASS

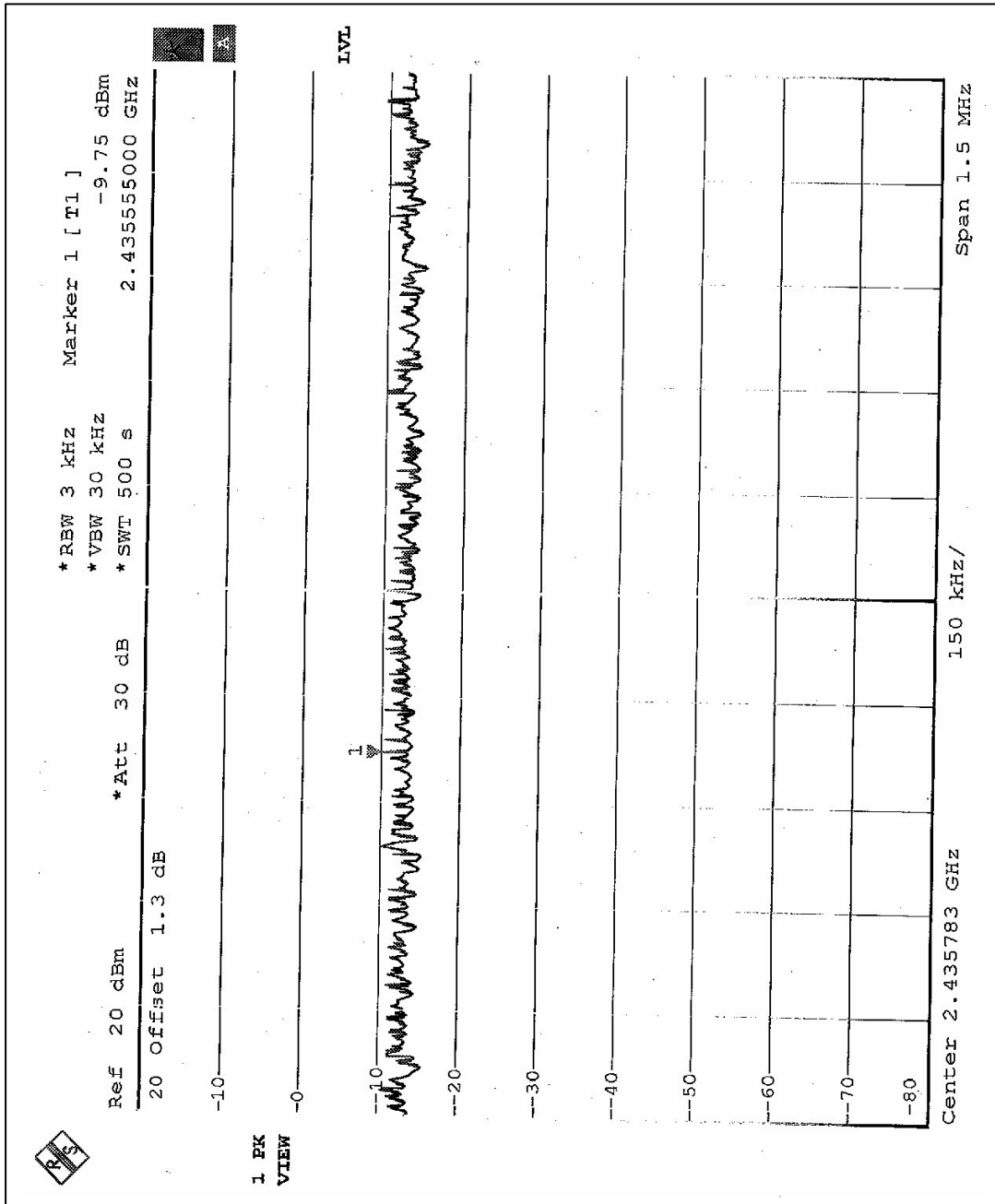


CH2



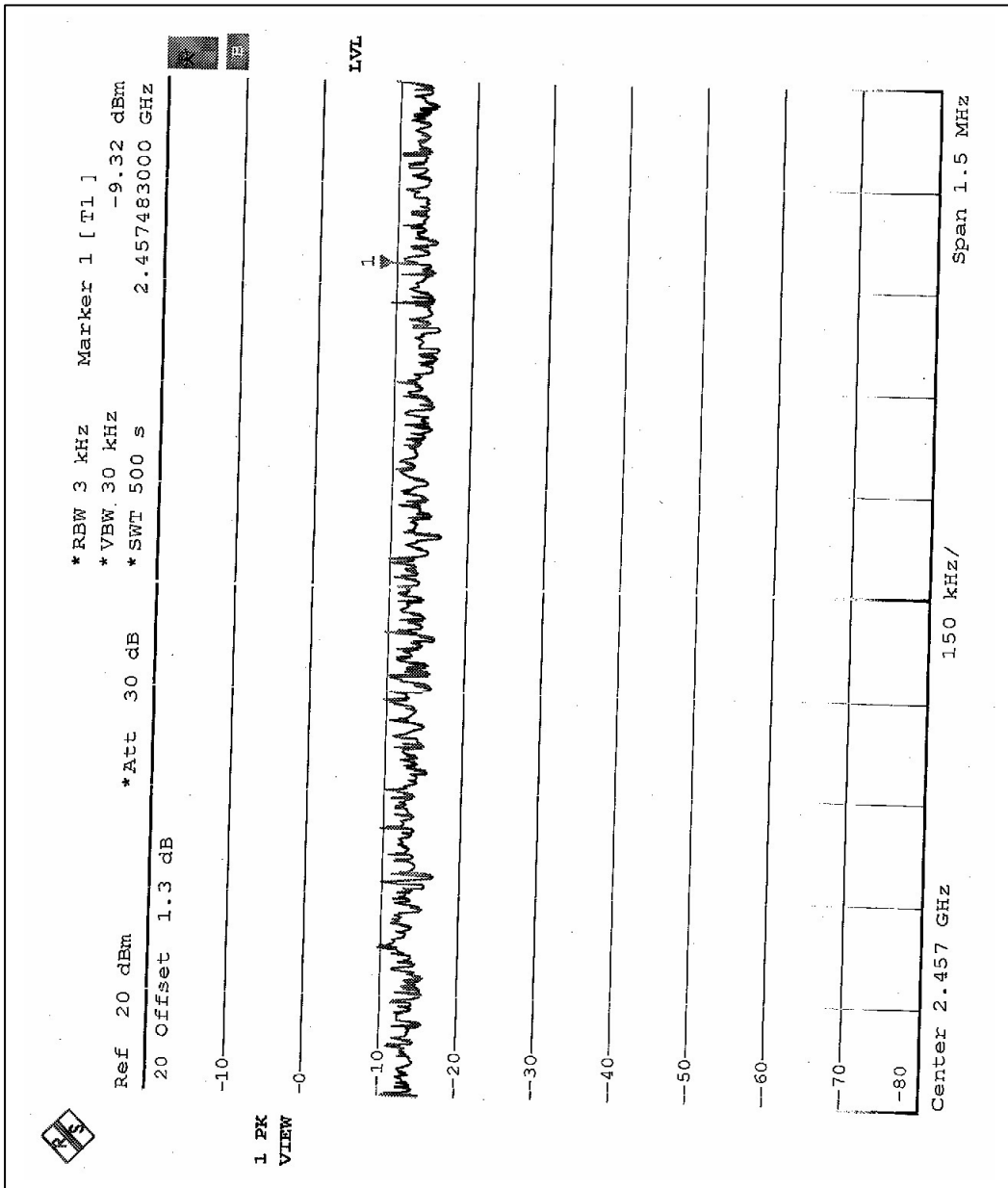


CH6





CH10





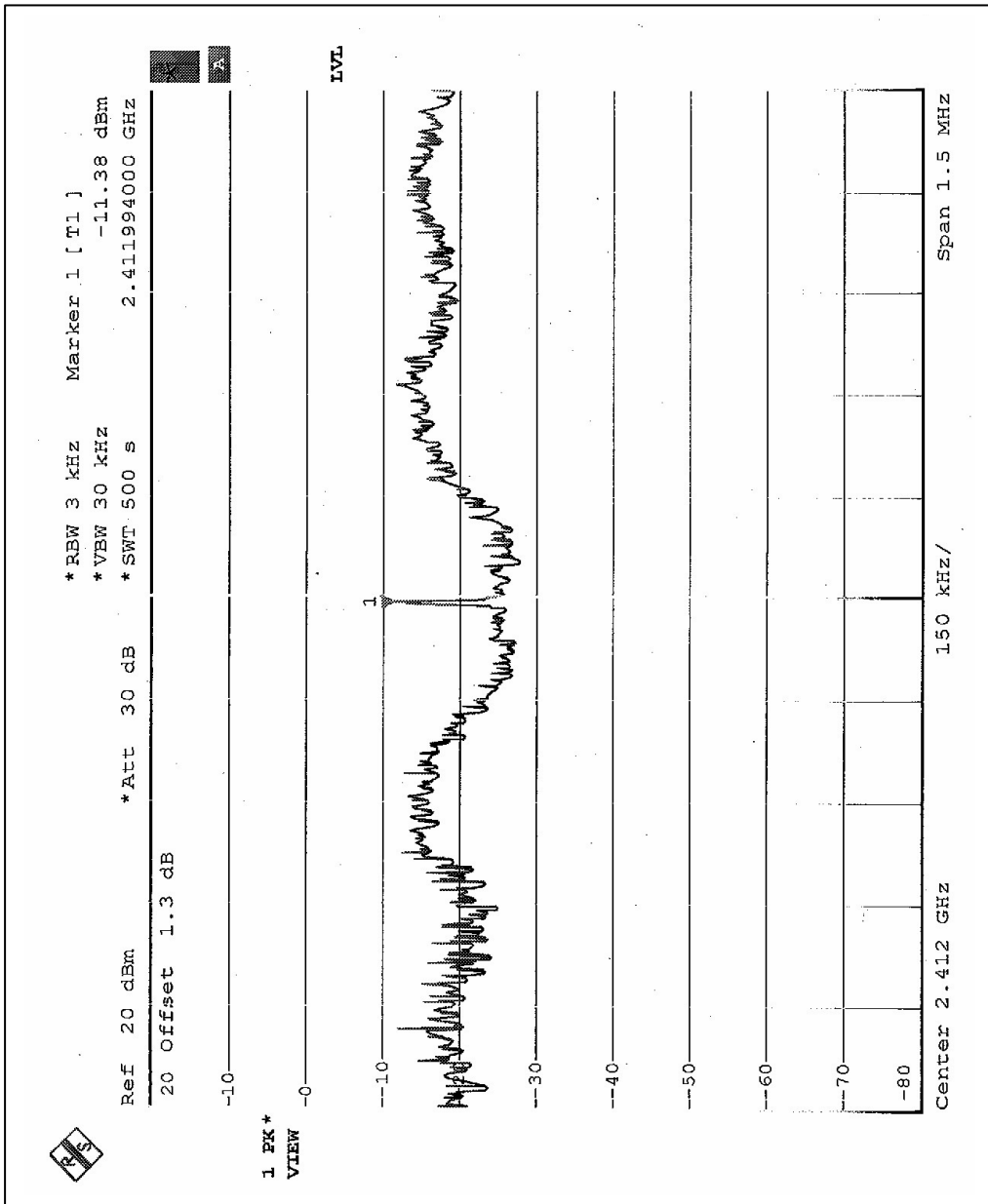
4.5.7 TEST RESULTS-OFDM

EUT	802.11b/g MiniPCI Module	MODEL	G11FNF
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26 deg. C, 59 %RH, 979 hPa
TEST MODE	Antenna 1&3	TESTED BY	Hank Chung

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.38	8	PASS
6	2437	-11.10	8	PASS
11	2462	-11.83	8	PASS

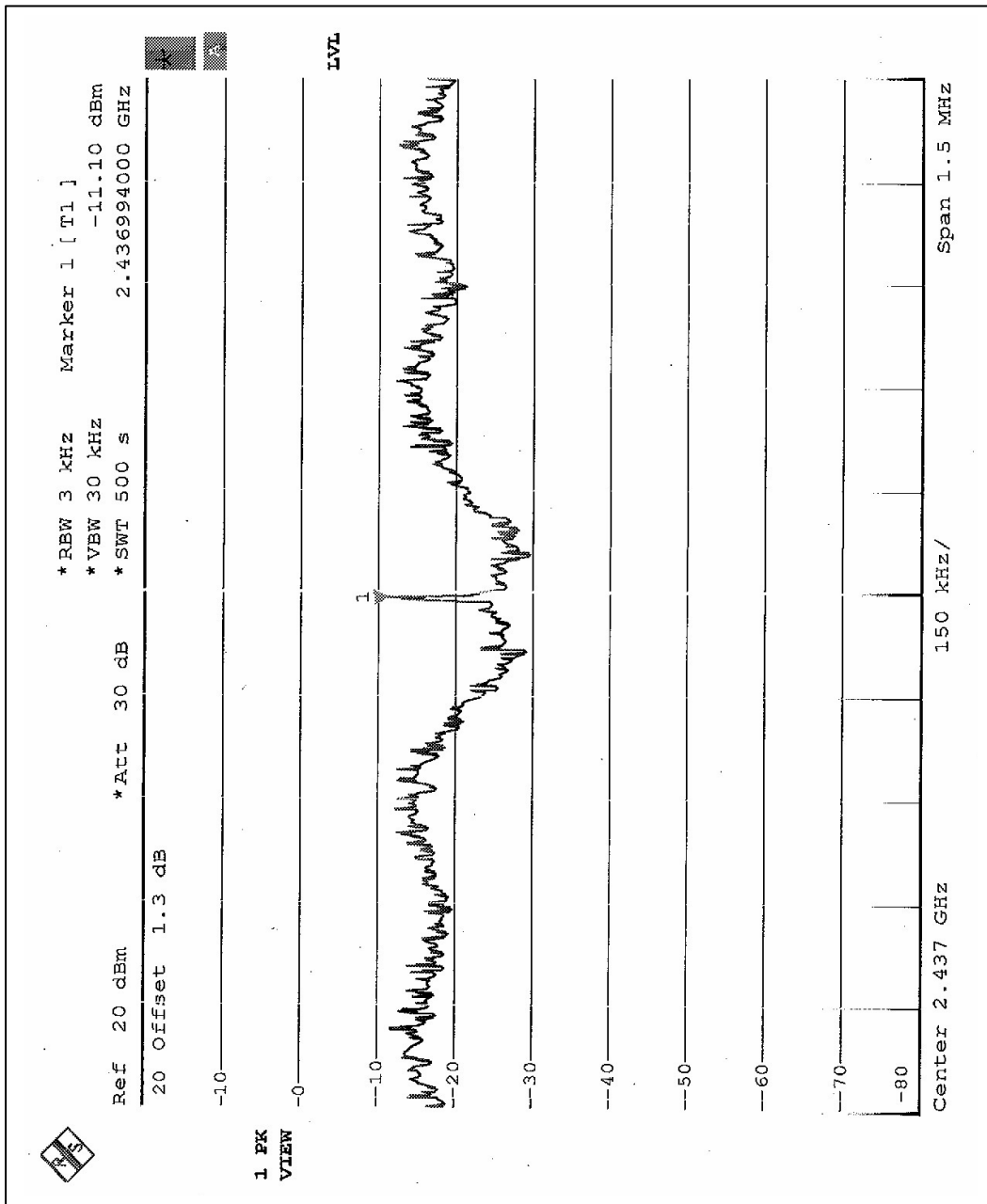


CH1



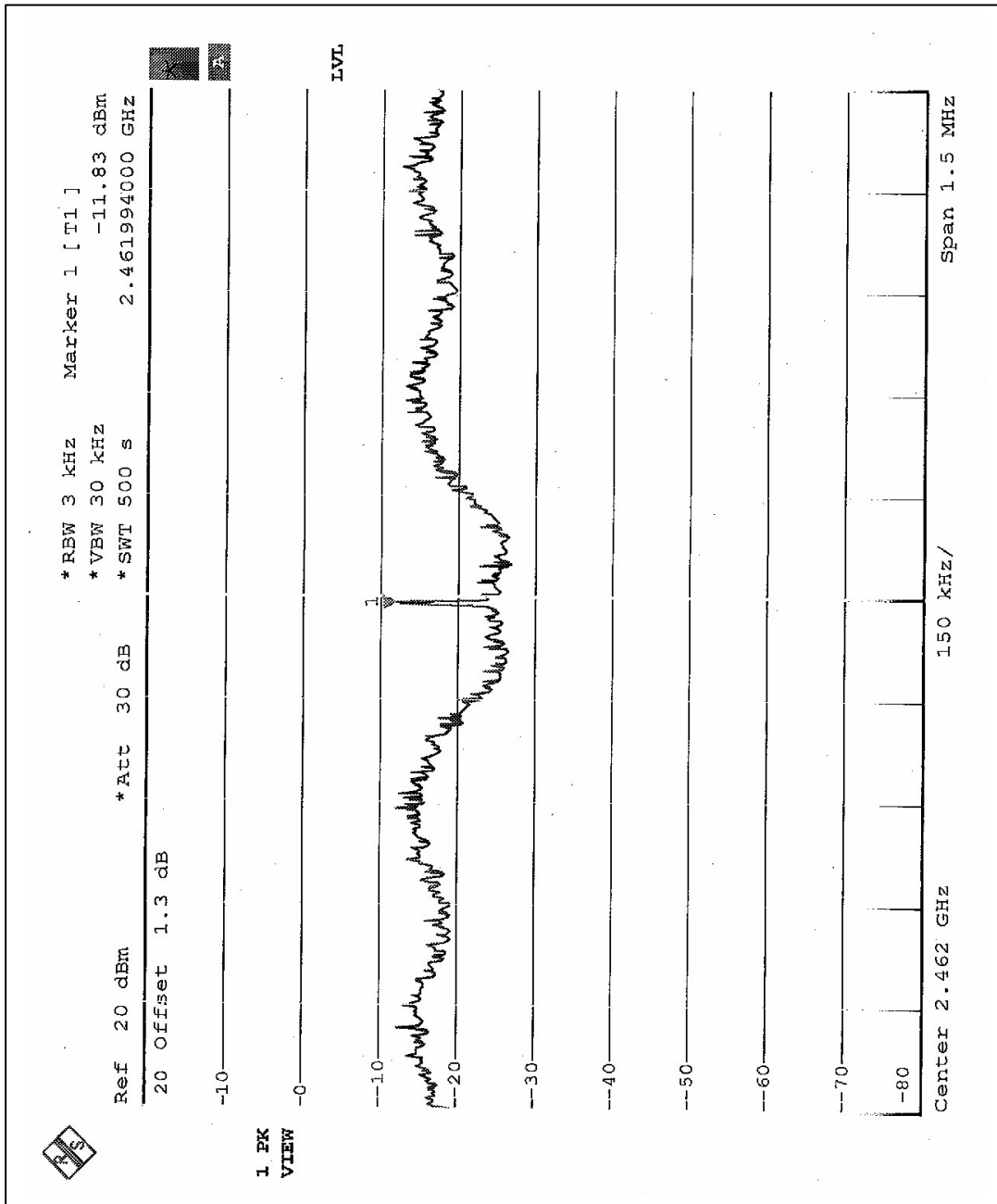


CH6





CH11



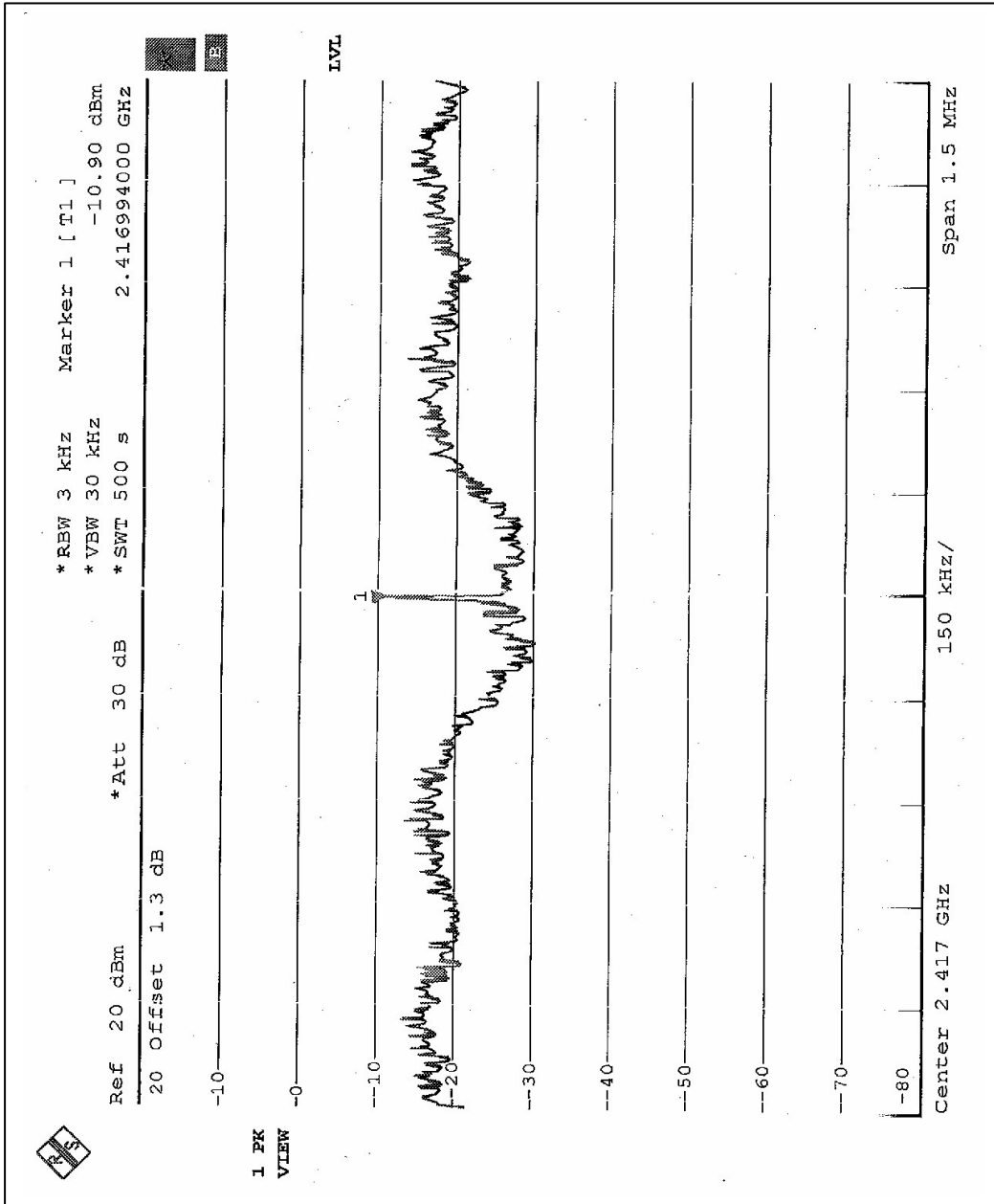


EUT	802.11b/g MiniPCI Module	MODEL	G11FNF
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26 deg. C, 59 %RH, 979 hPa
TEST MODE	Antenna 2	TESTED BY	Hank Chung

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
2	2417	-10.90	8	PASS
6	2437	-11.10	8	PASS
10	2457	-10.66	8	PASS

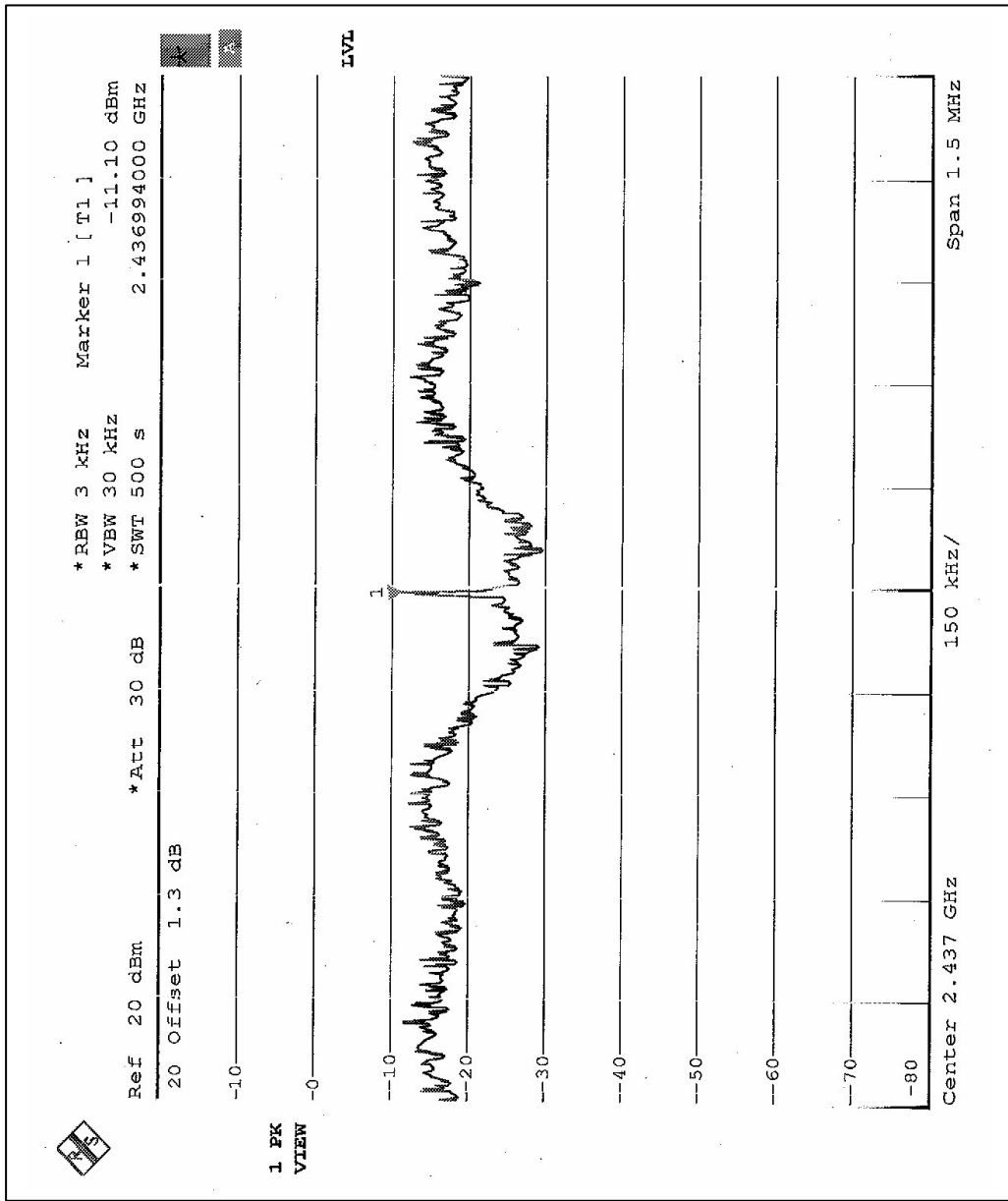


CH2



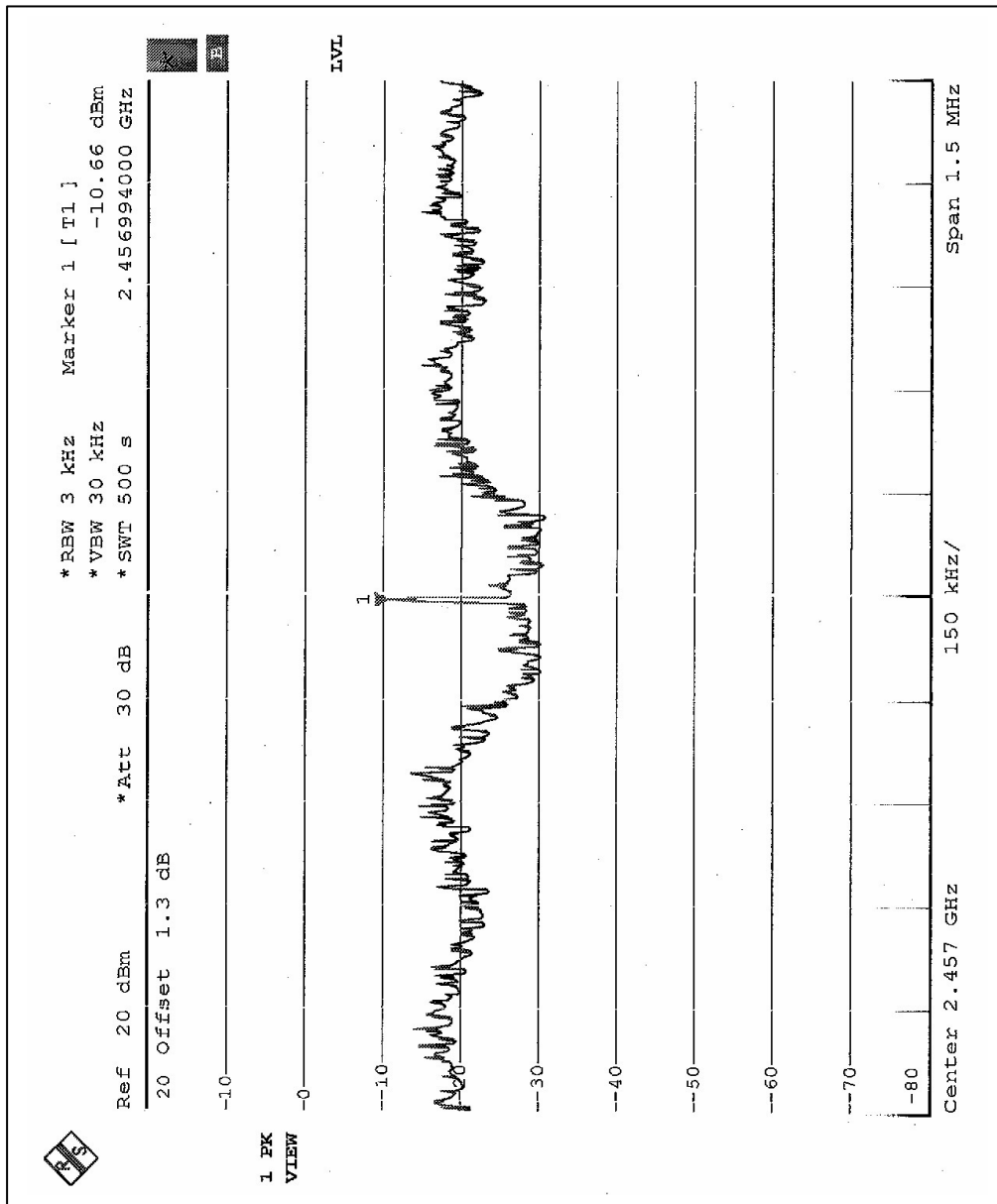


CH6





CH10





4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

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

NOTE:

- 1.The measurement uncertainty is less than $\pm 2.6\text{dB}$, 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.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 EUT OPERATING CONDITION

Same as Item 4.3.5



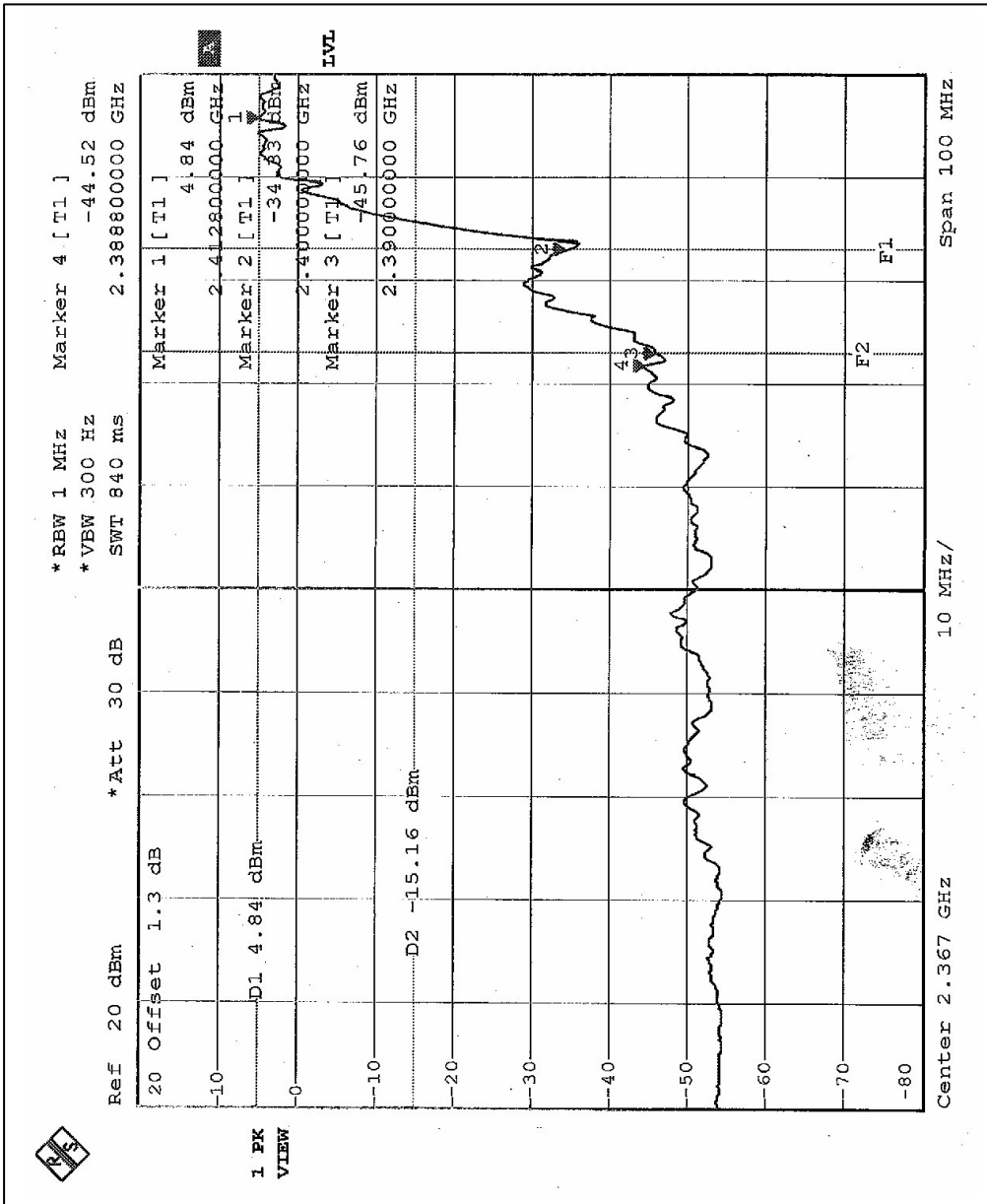
4.6.5 TEST RESULTS - DSSS

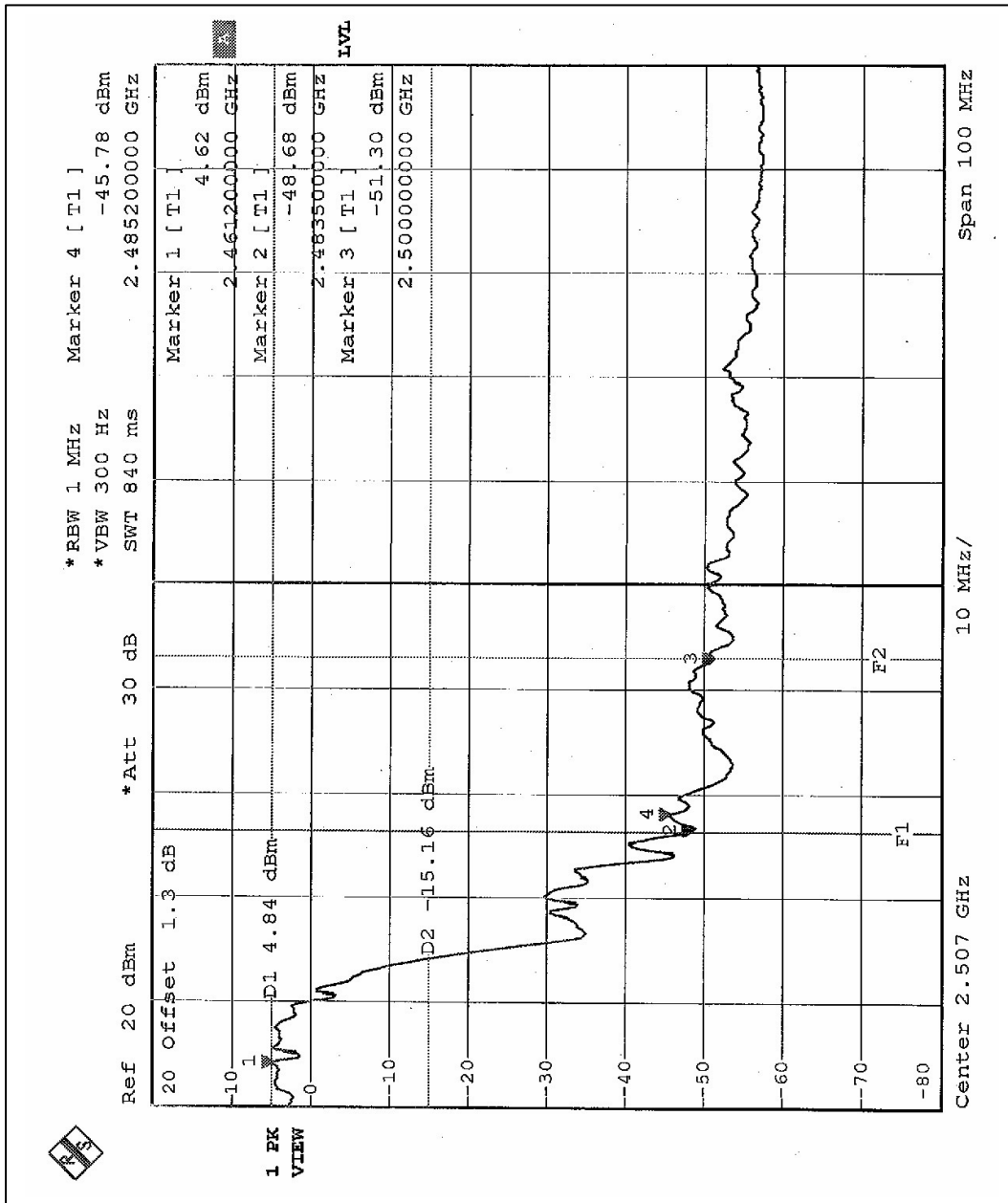
◆ TEST MODE: Antenna 1&3

The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

NOTE (1): The band edge emission plot on the following first page shows 49.36dB delta between carrier maximum power and local maximum emission in restrict band (2.388GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 100.5dBuV/m, so the maximum field strength in restrict band is $100.5-49.36=51.2$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 50.62dB delta between carrier maximum power and local maximum emission in restrict band (2.4852GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 100.7dBuV/m, so the maximum field strength in restrict band is $100.7-50.62=50.08$ dBuV/m which is under 54 dBuV/m limit.





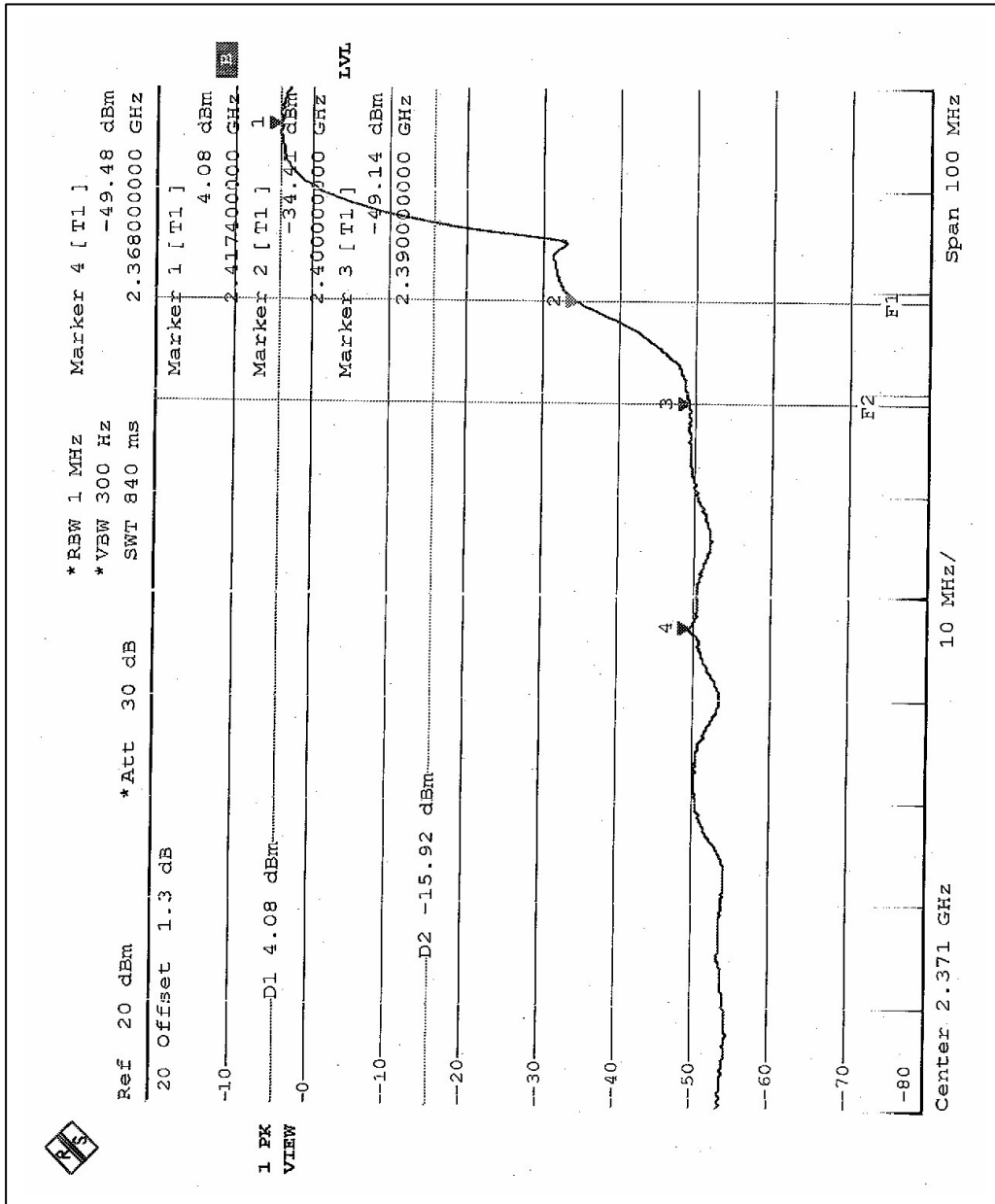


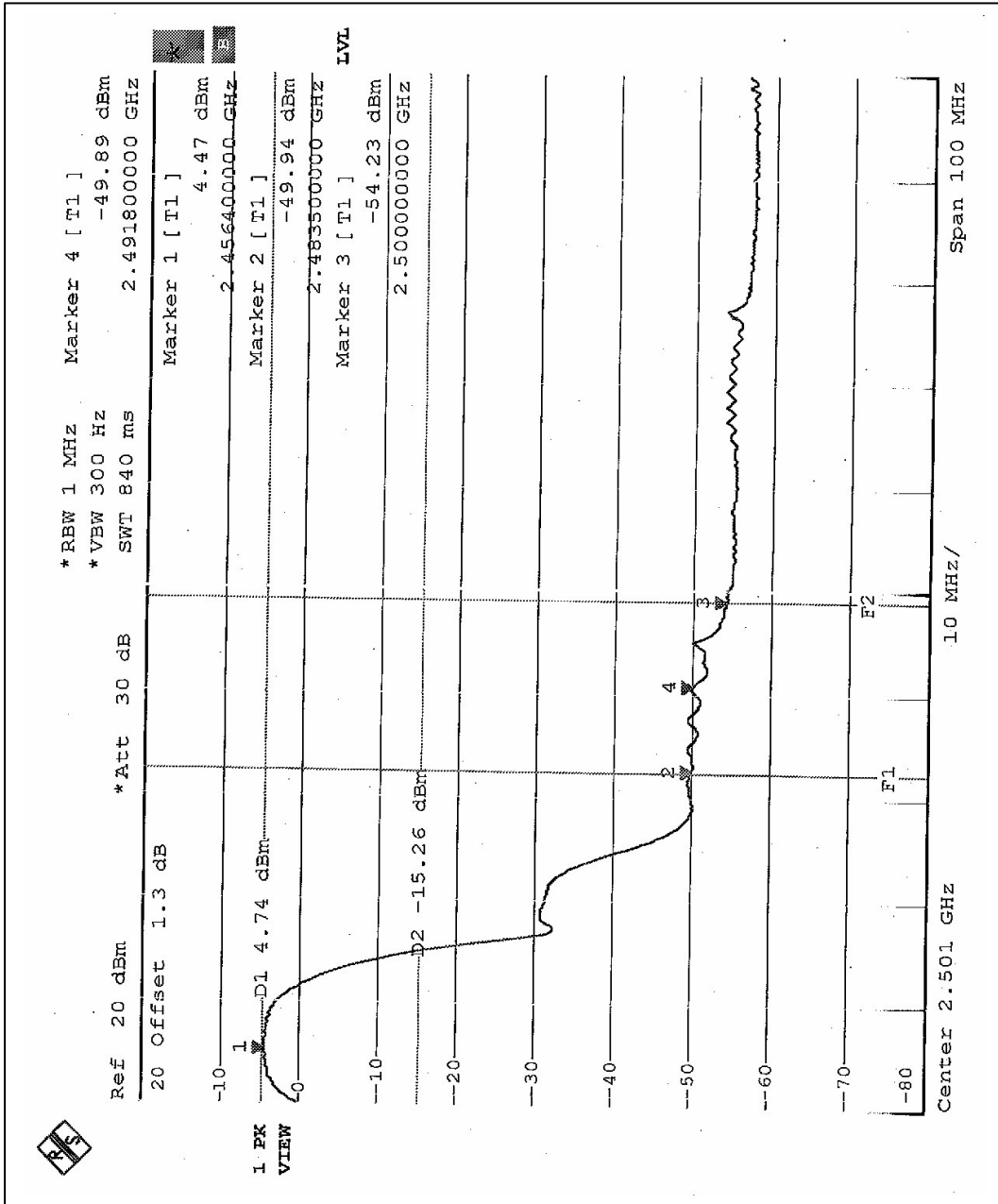
◆ TEST MODE: Antenna 2

The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

NOTE (1): The band edge emission plot on the following first page shows 53.22dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 97.8dBuV/m, so the maximum field strength in restrict band is $97.8 - 53.22 = 44.58$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 54.63dB delta between carrier maximum power and local maximum emission in restrict band (2.4918GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 98.1dBuV/m, so the maximum field strength in restrict band is $98.1 - 54.63 = 43.47$ dBuV/m which is under 54 dBuV/m limit.







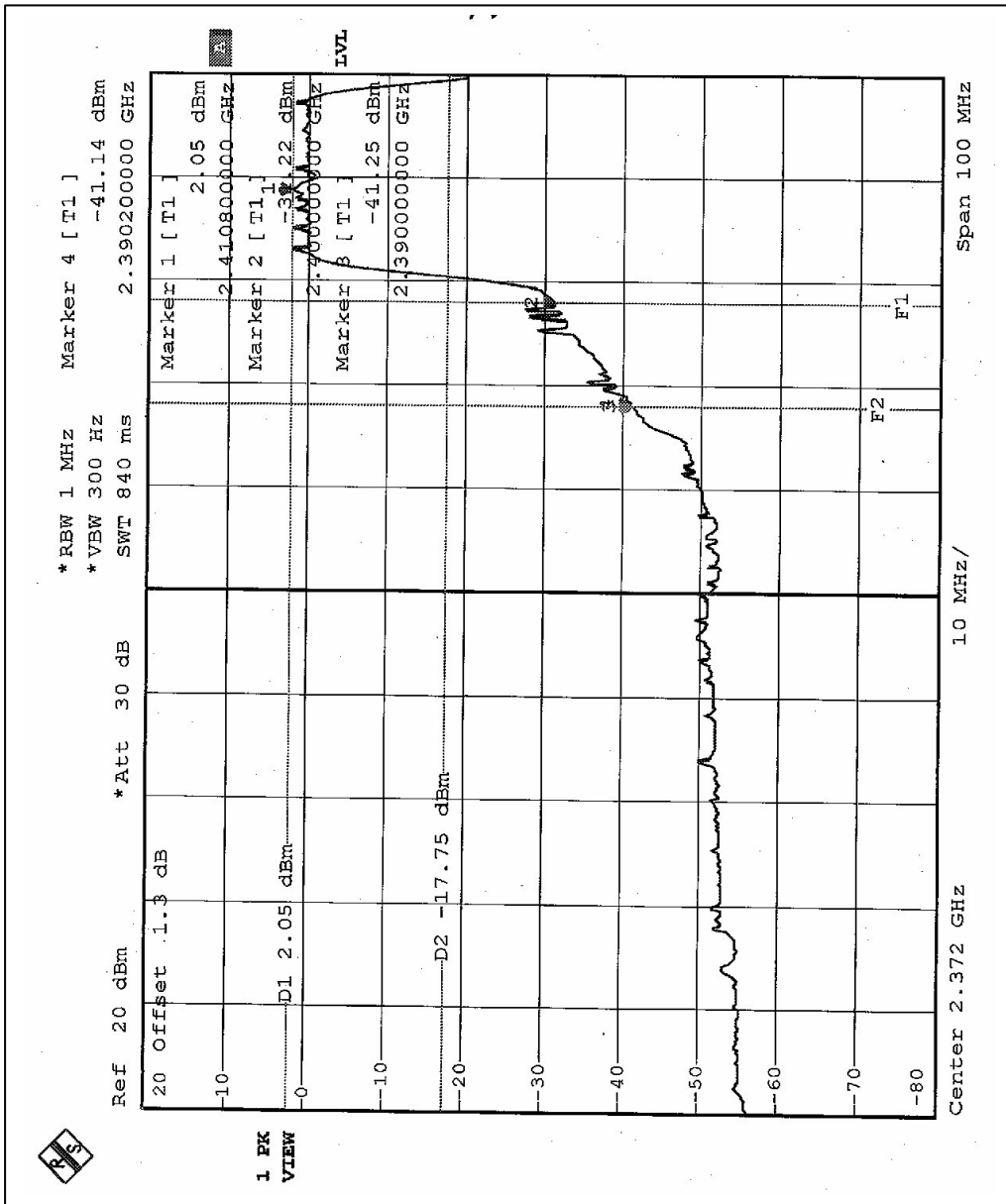
4.6.6 TEST RESULTS-OFDM

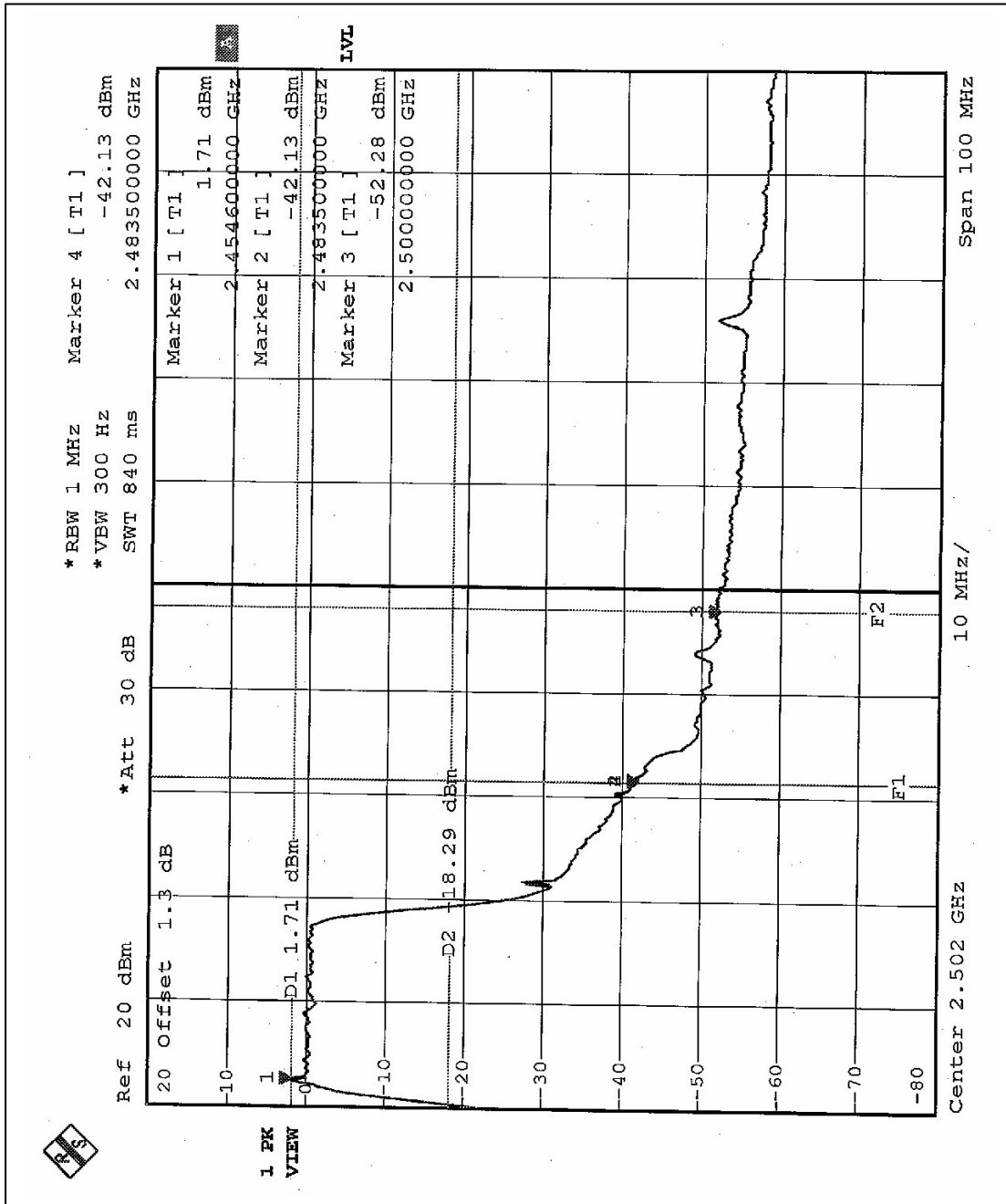
◆ TEST MODE: Antenna 1&3

The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

NOTE (1): The band edge emission plot on the following first page shows 43.19dB delta between carrier maximum power and local maximum emission in restrict band (2.3902GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 95.7dBuV/m, so the maximum field strength in restrict band is $95.7-43.19=52.51$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 43.84dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 95.7dBuV/m, so the maximum field strength in restrict band is $95.7-43.84=51.86$ dBuV/m which is under 54 dBuV/m limit.





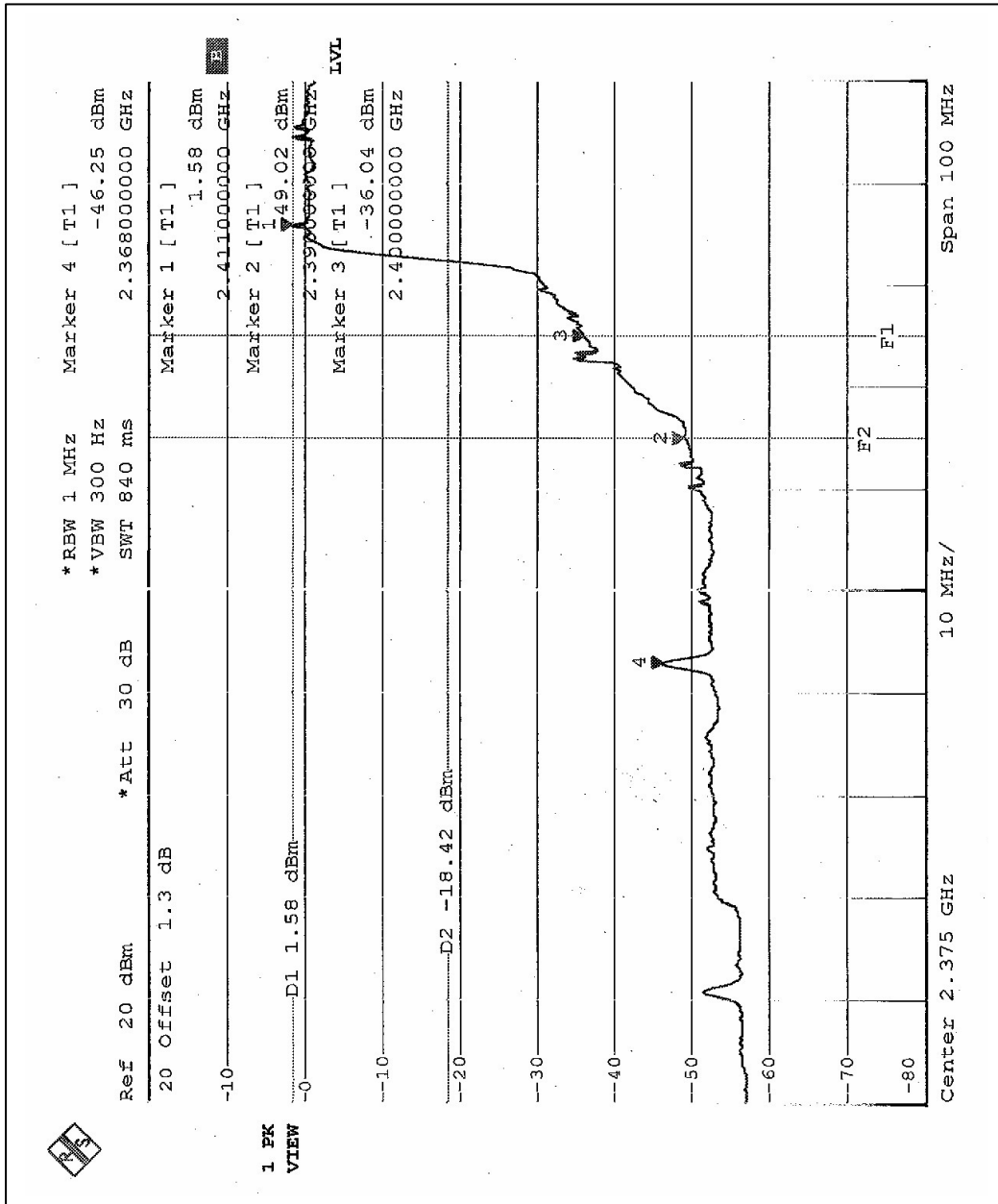


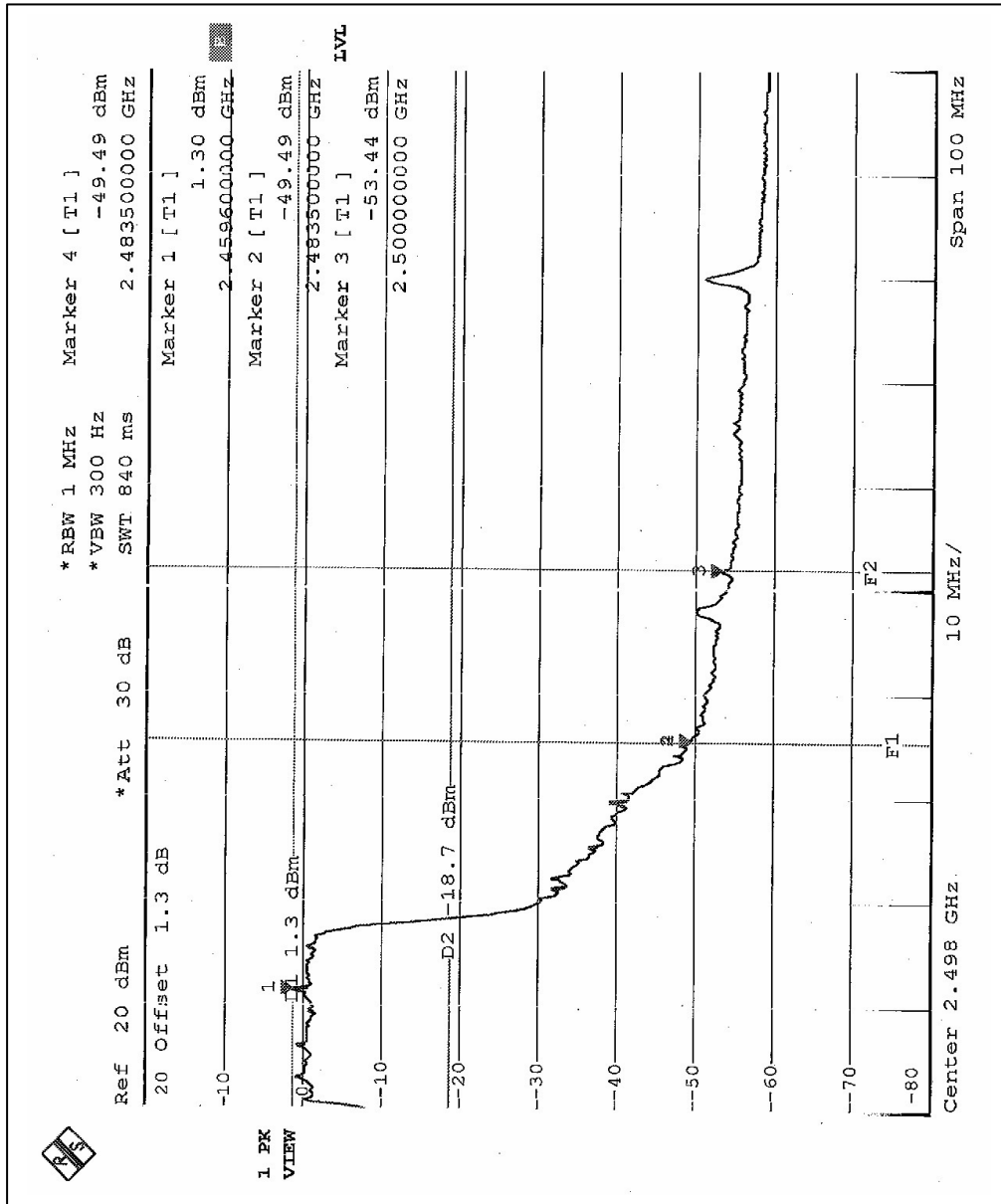
◆ TEST MODE: Antenna 2

The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

NOTE (1): The band edge emission plot on the following first page shows 46.47dB delta between carrier maximum power and local maximum emission in restrict band (2.3680GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 94.3dBuV/m, so the maximum field strength in restrict band is $94.3-47.83=46.47$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 50.79dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 94.4dBuV/m, so the maximum field strength in restrict band is $94.4-50.79=43.61$ dBuV/m which is under 54 dBuV/m limit.







4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

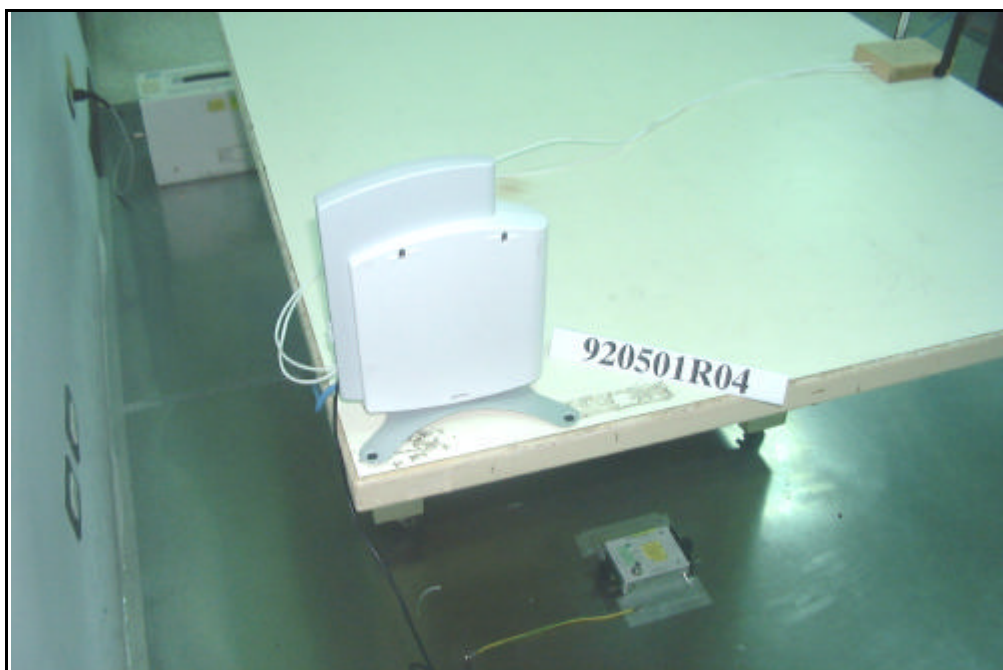
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

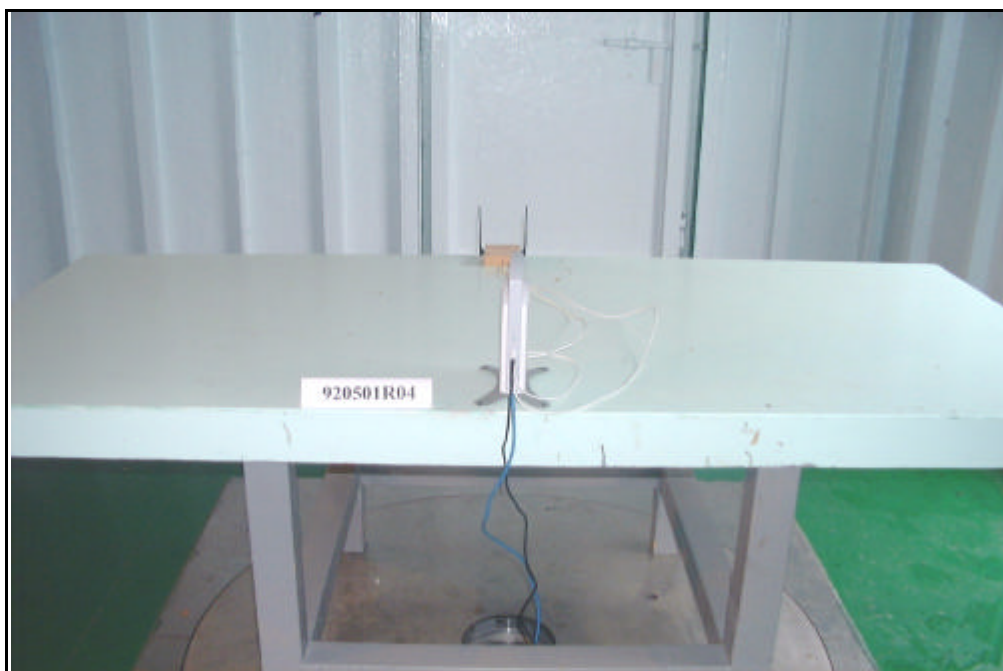
4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna types used in this product are omni directional antenna (dipole), Omni directional (mono-pole) Antenna and Dual band Omni directional (dipole) Antenna with MMCX connector. And the maximum Gain of this antenna is only 5dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP, UL
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
Canada	INDUSTRY CANADA
R.O.C.	CNLA, BSMI

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

www.adt.com.tw/index.5/phtml.

If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26052943

Hsin Chu EMC Lab:

Tel: 886-35-935343

Fax: 886-35-935342

Lin Kou Safety Lab:

Tel: 886-2-26093195

Fax: 886-2-26093184

Lin Kou RF&Telecom Lab

Tel: 886-3-3270910

Fax: 886-3-3270892

Email: service@adt.com.tw

Web Site: www.adt.com.tw

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