



### 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	FSP	1093.4495.30	Dec. 19, 2004

**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.



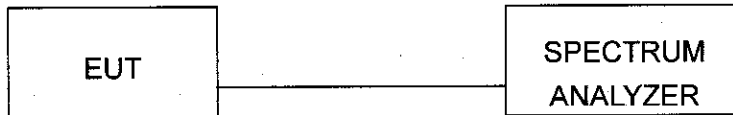
### 4.3.3 TEST PROCEDURE

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 6 dB.

### 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.



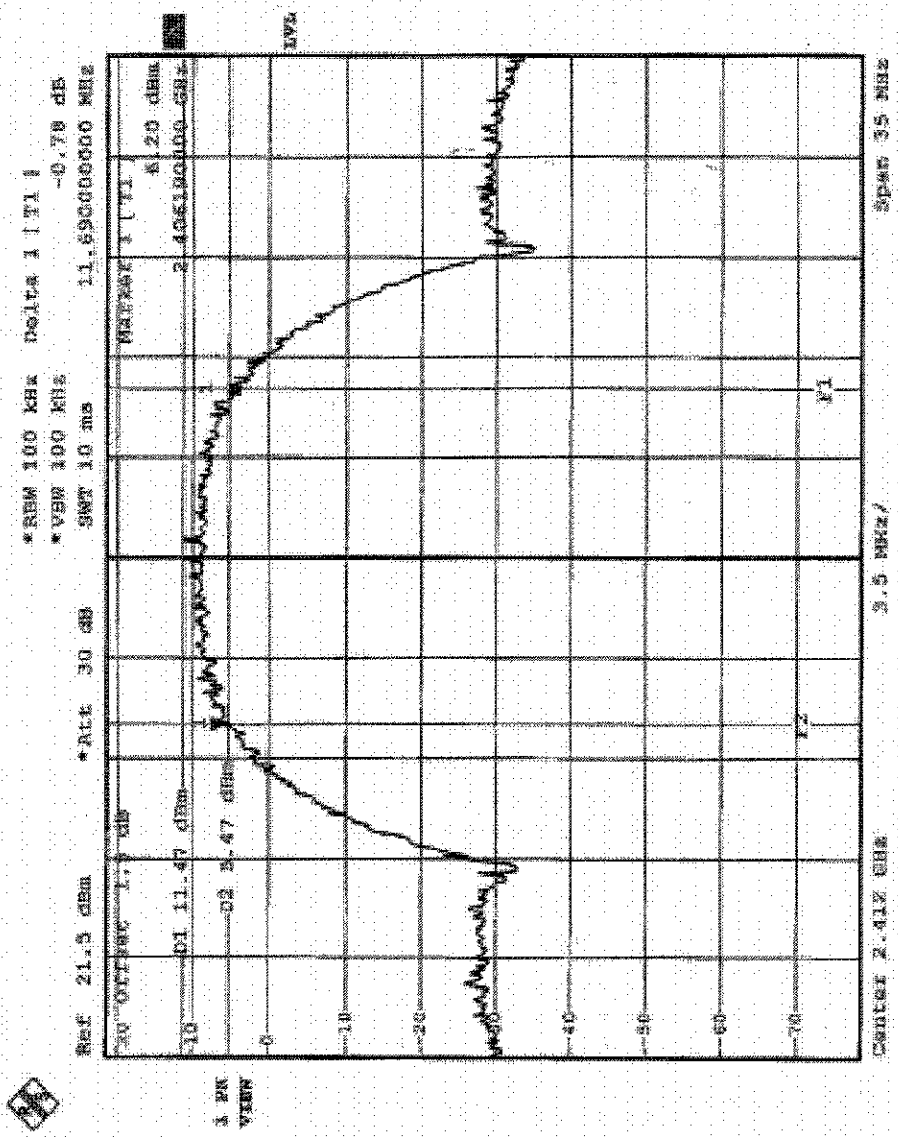
## 4.3.7 TEST RESULTS -DSSS

<b>EUT</b>	Flanker Pro Single Radio AP	<b>MODEL</b>	AP-AG-AT-01
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	21deg. C, 58%RH, 972 hPa
<b>TESTED BY</b>	Eric Lee		

<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>6dB BANDWIDTH (MHz)</b>	<b>MINIMUM LIMIT (MHz)</b>	<b>PASS/FAIL</b>
1	2412	11.69	0.5	PASS
6	2437	11.27	0.5	PASS
11	2462	11.20	0.5	PASS

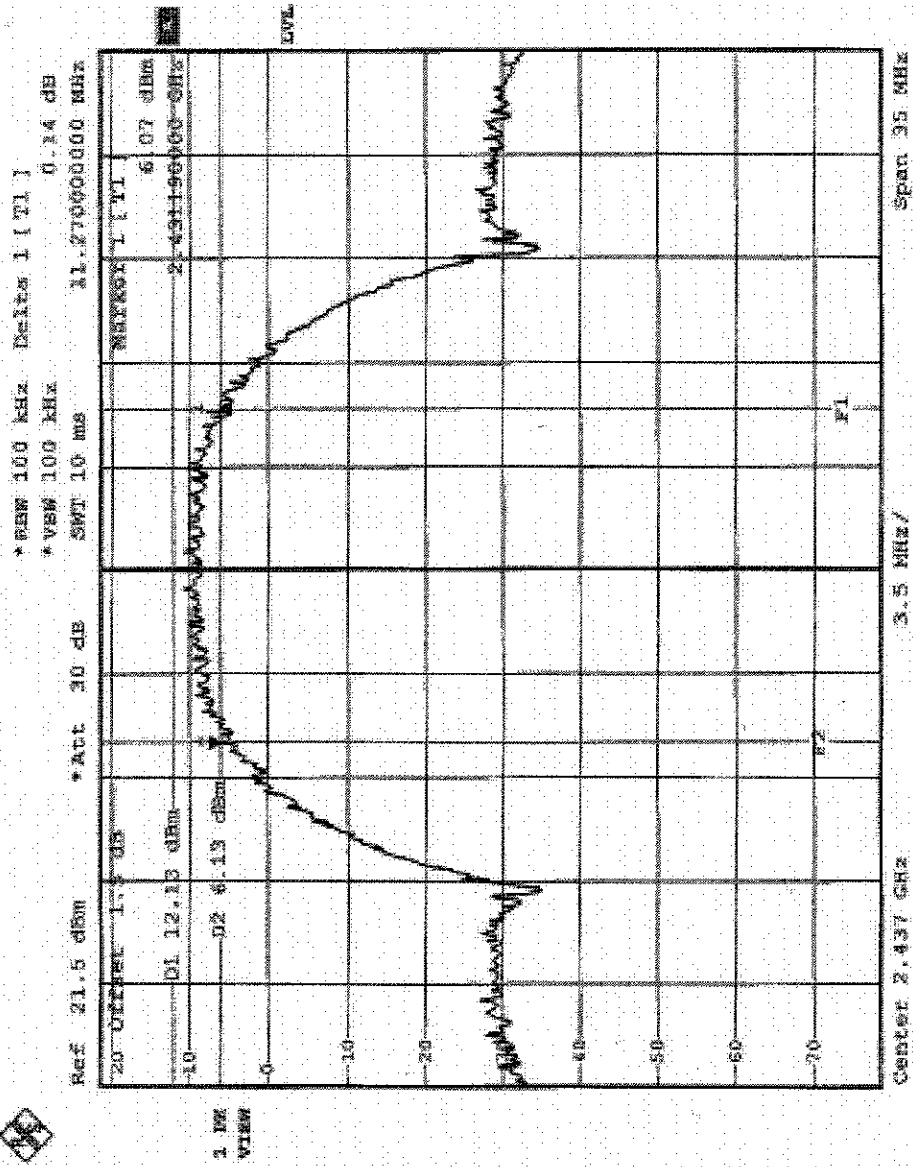


CH1



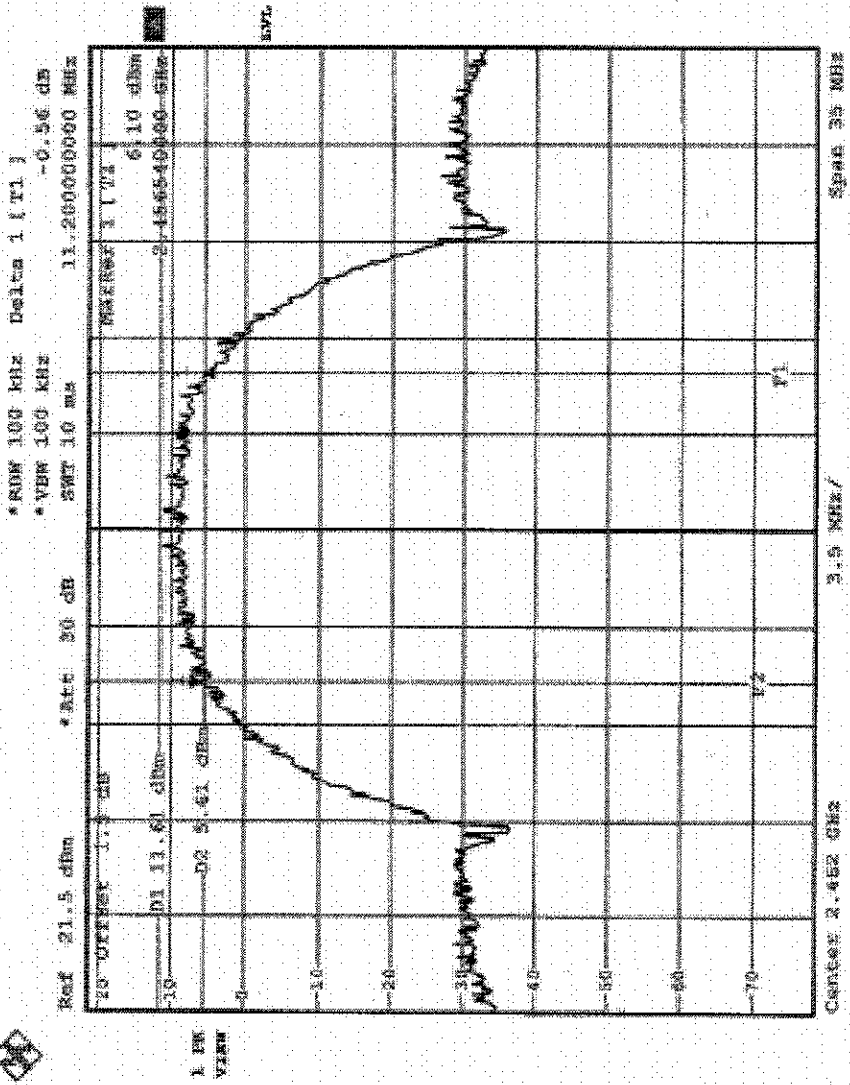


CH6





CH11





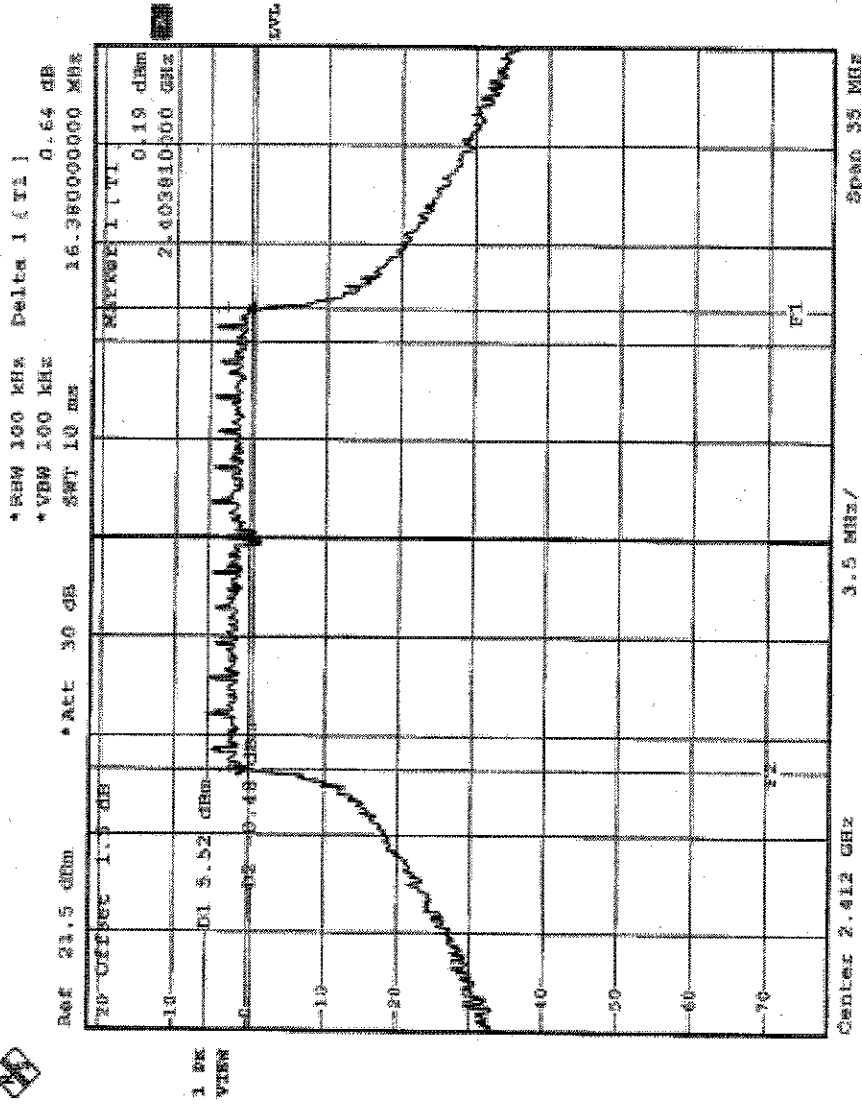
## 4.3.8 TEST RESULTS -OFDM

<b>EUT</b>	Flanker Pro Single Radio AP	<b>MODEL</b>	AP-AG-AT-01
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	21deg. C, 58%RH, 972 hPa
<b>TESTED BY</b>	Eric Lee		

<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>6dB BANDWIDTH (MHz)</b>	<b>MINIMUM LIMIT (MHz)</b>	<b>PASS/FAIL</b>
1	2412	16.38	0.5	PASS
6	2437	16.38	0.5	PASS
11	2462	16.38	0.5	PASS



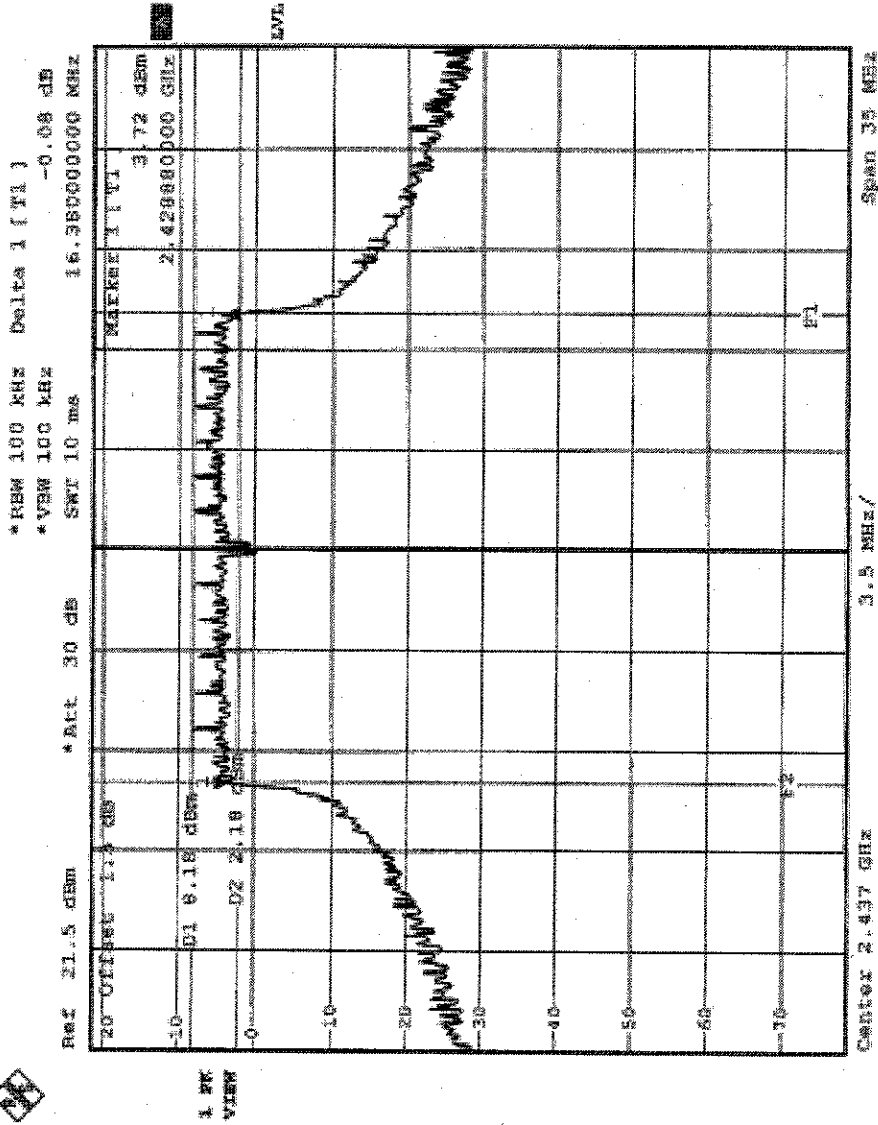
CH 1





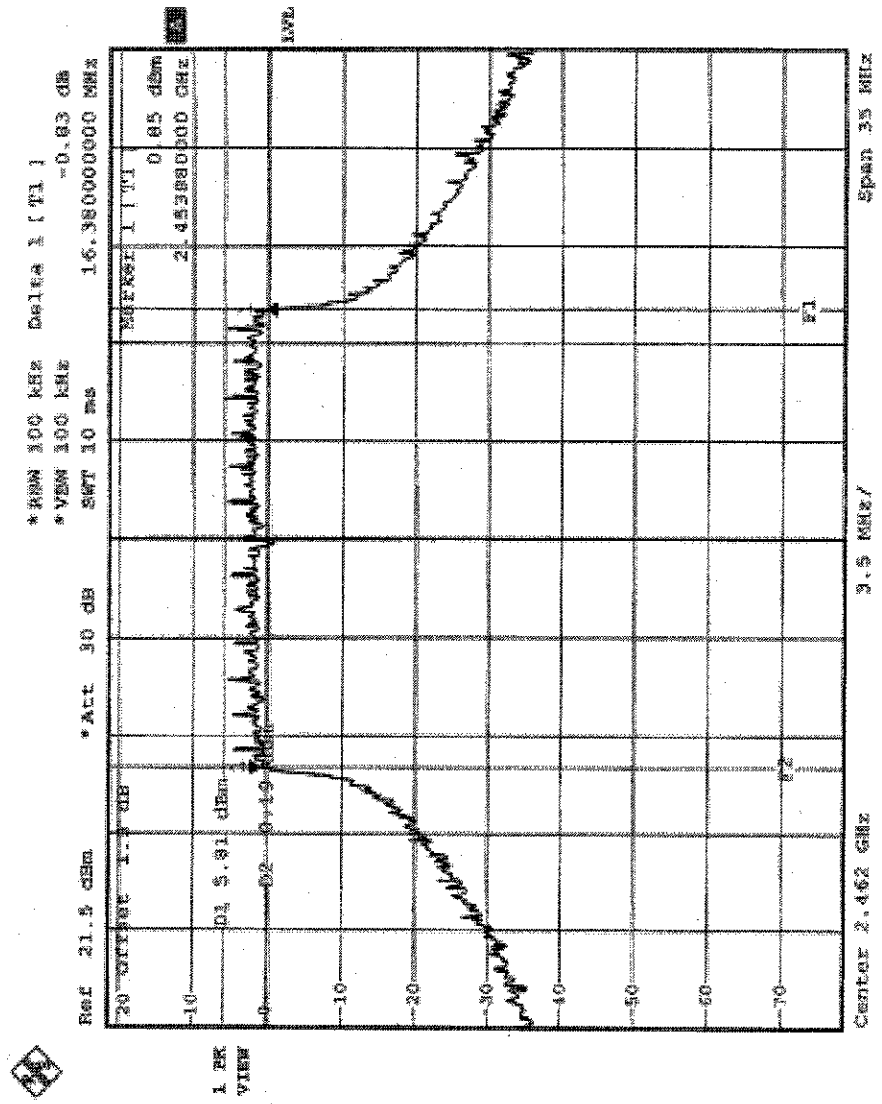


CH6





CH11





#### 4.4 MAXIMUM PEAK OUTPUT POWER

##### 4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

**Note:**

1. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

##### 4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP30	100019	Dec. 19, 2004
R&S SIGNAL GENERATOR	SMP04	100011	May 28, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	B048470	Mar. 05, 2004
NARDA DETECTOR	4503A	FSCM99899	NA

**NOTE:**

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



#### 4.4.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the 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 TEST SETUP



#### 4.4.5 EUT OPERATING CONDITIONS

Same as Item 4.3.6



## 4.4.6 TEST RESULTS -DSSS

<b>EUT</b>	Flanker Pro Single Radio AP	<b>MODEL</b>	AP-AG-AT-01
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	19deg. C, 64%RH, 972 hPa
<b>TESTED BY</b>	Eric Lee		

**Antenna 1 (Gain: 2.5dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	20.30	30	PASS
6	2437	21.34	30	PASS
11	2462	21.50	30	PASS

**Antenna 2 (Gain: 2.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	21.52	30	PASS
6	2437	21.94	30	PASS
11	2462	21.42	30	PASS

**Antenna 3 (Gain: 3.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	20.30	30	PASS
6	2437	21.34	30	PASS
11	2462	21.50	30	PASS

**Antenna 4 (Gain: 10.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	18.23	26	PASS
6	2437	20.90	26	PASS
11	2462	19.00	26	PASS



<b>EUT</b>	Flanker Pro Single Radio AP	<b>MODEL</b>	AP-AG-AT-01
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	19deg. C, 64%RH, 972 hPa
<b>TESTED BY</b>	Eric Lee		

**Antenna 5 (Gain: 14.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	8.61	22	PASS
6	2437	13.62	22	PASS
11	2462	13.65	22	PASS

**Antenna 6 (Gain: 14.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	12.50	22	PASS
6	2437	17.82	22	PASS
11	2462	15.74	22	PASS

**Antenna 7 (Gain: 24.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
3	2422	8.61	24	PASS
6	2437	9.50	24	PASS
9	2452	8.54	24	PASS



## 4.4.7 TEST RESULTS -OFDM

<b>EUT</b>	Flanker Pro Single Radio AP	<b>MODEL</b>	AP-AG-AT-01
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	19deg. C, 64%RH, 972 hPa
<b>TESTED BY</b>	Eric Lee		

**Antenna 1 (Gain: 2.5dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	21.09	30	PASS
6	2437	22.09	30	PASS
11	2462	21.37	30	PASS

**Antenna 2 (Gain: 2.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	20.82	30	PASS
6	2437	23.28	30	PASS
11	2462	21.43	30	PASS

**Antenna 3 (Gain: 3.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	21.09	30	PASS
6	2437	22.09	30	PASS
11	2462	21.37	30	PASS

**Antenna 4 (Gain: 10.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.20	26	PASS
6	2437	21.00	26	PASS
11	2462	16.33	26	PASS



<b>EUT</b>	Flanker Pro Single Radio AP	<b>MODEL</b>	AP-AG-AT-01
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	19deg. C, 64%RH, 972 hPa
<b>TESTED BY</b>	Eric Lee		

**Antenna 5 (Gain: 14.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	10.12	22	PASS
6	2437	18.05	22	PASS
11	2462	11.91	22	PASS

**Antenna 6 (Gain: 14.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	12.00	22	PASS
6	2437	18.01	22	PASS
11	2462	14.72	22	PASS

**Antenna 7 (Gain: 24.0dBi)**

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
3	2422	11.86	24	PASS
6	2437	11.57	24	PASS
9	2452	12.01	24	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, 2004

**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/3 kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3 kHz for a full response of the mixer in the spectrum analyzer.

#### 4.5.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.5.5 TEST SETUP



#### 4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



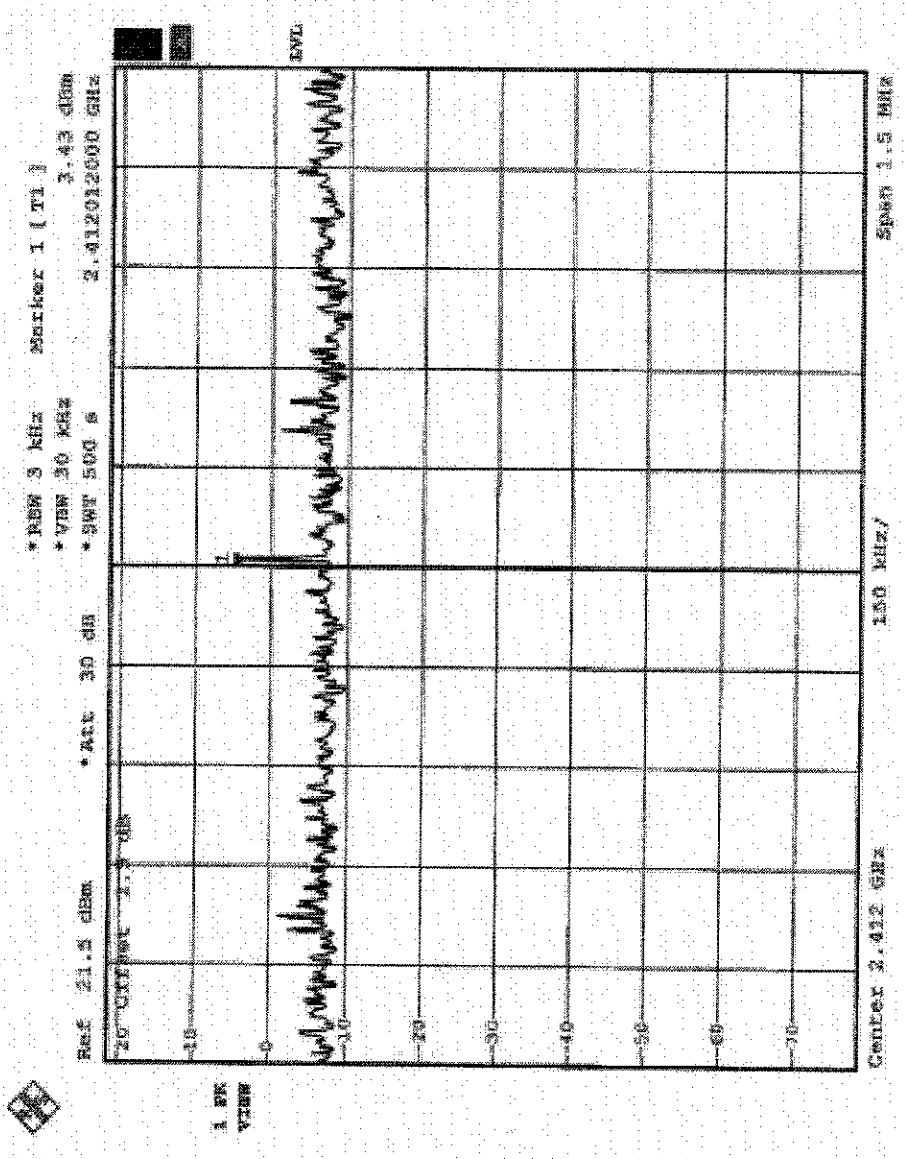
## 4.5.7 TEST RESULTS-DSSS

<b>EUT</b>	Flanker Pro Single Radio AP	<b>MODEL</b>	AP-AG-AT-01
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	21deg. C, 58RH, 972 hPa
<b>TESTED BY</b>	Eric Lee		

<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	3.43	8	PASS
6	2437	4.65	8	PASS
11	2462	4.48	8	PASS

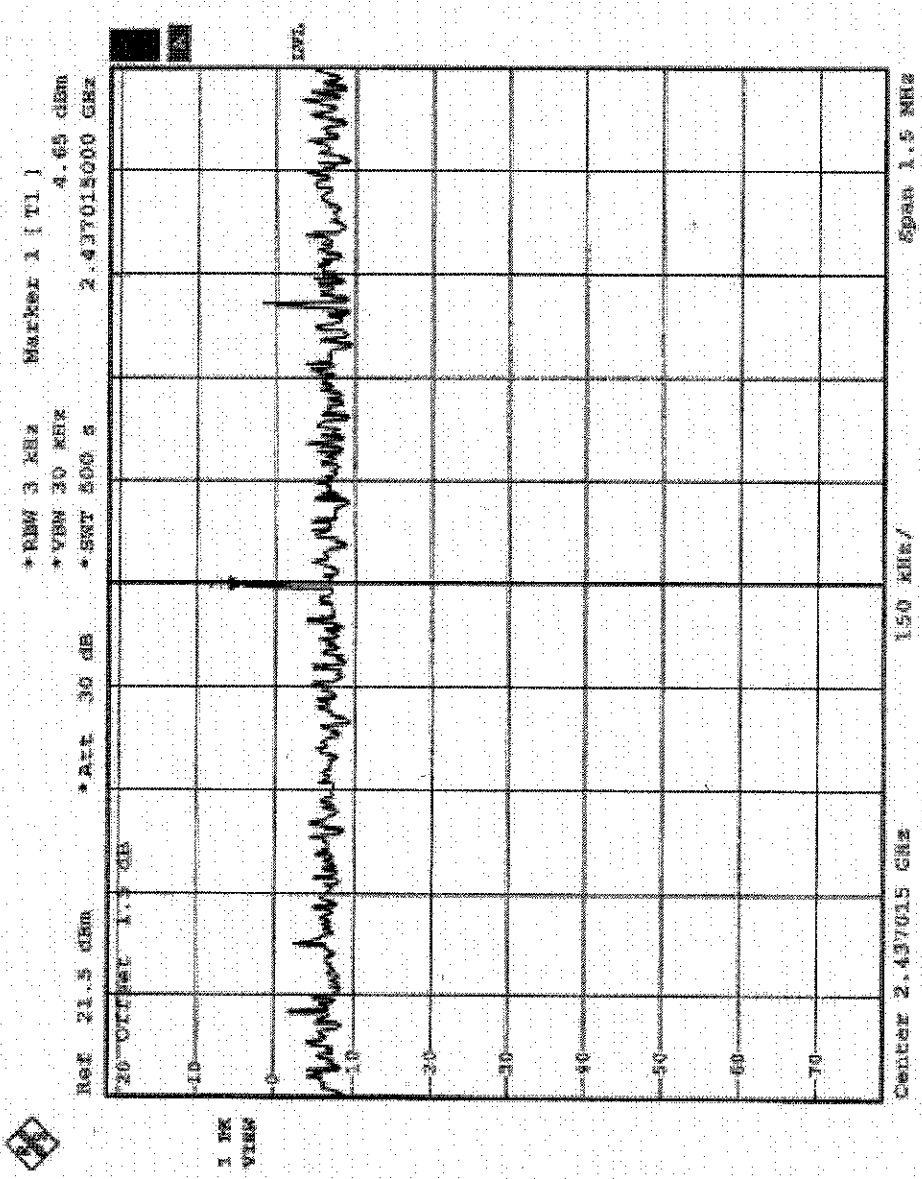


CH1



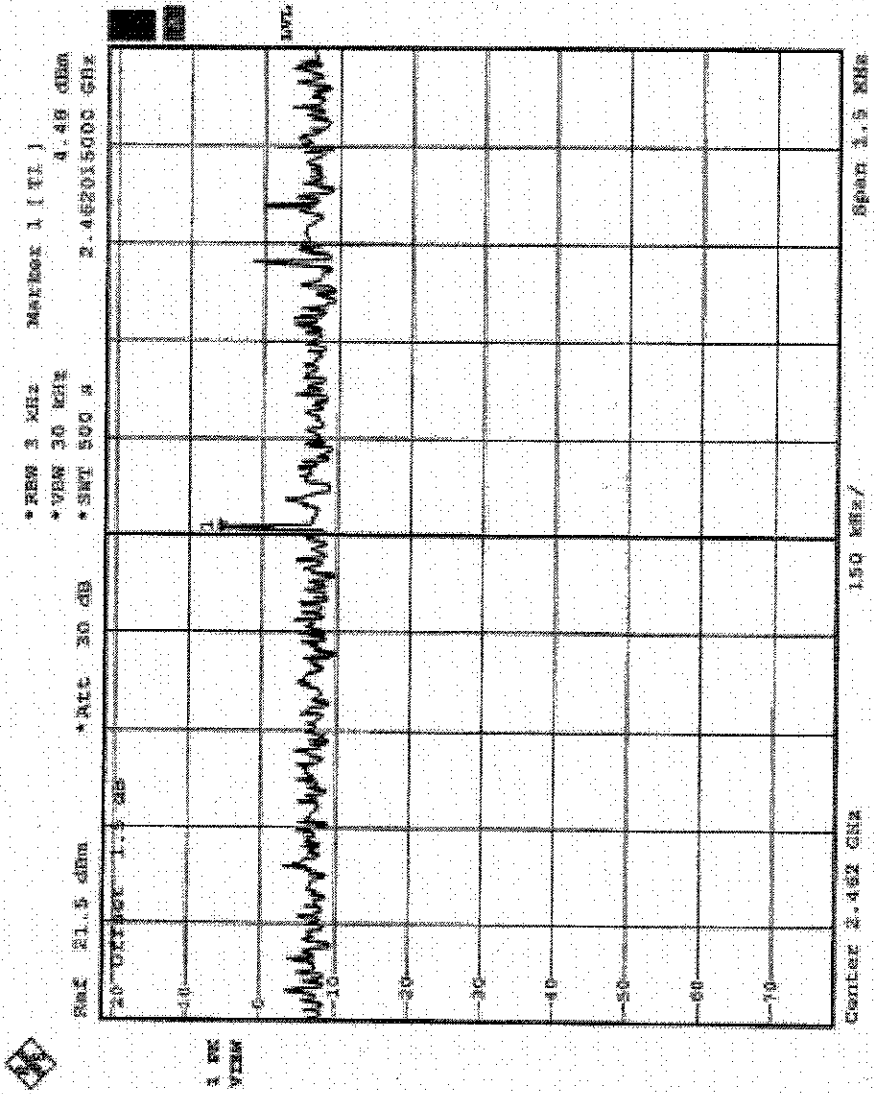


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CH11



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VIEW



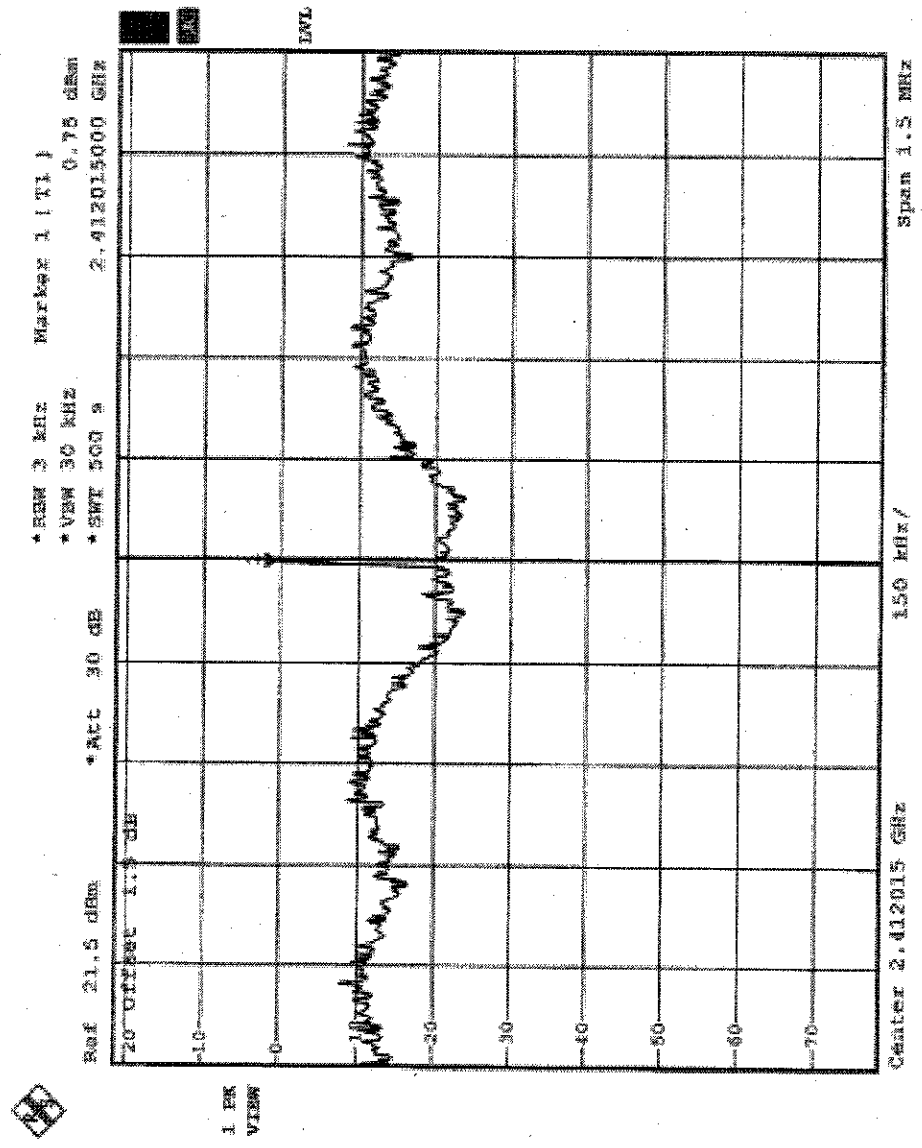
## 4.5.8 TEST RESULTS-OFDM

<b>EUT</b>	Flanker Pro Single Radio AP	<b>MODEL</b>	AP-AG-AT-01
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	21deg. C, 58RH, 972 hPa
<b>TESTED BY</b>	Eric Lee		

<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	0.75	8	PASS
6	2437	4.12	8	PASS
11	2462	1.98	8	PASS



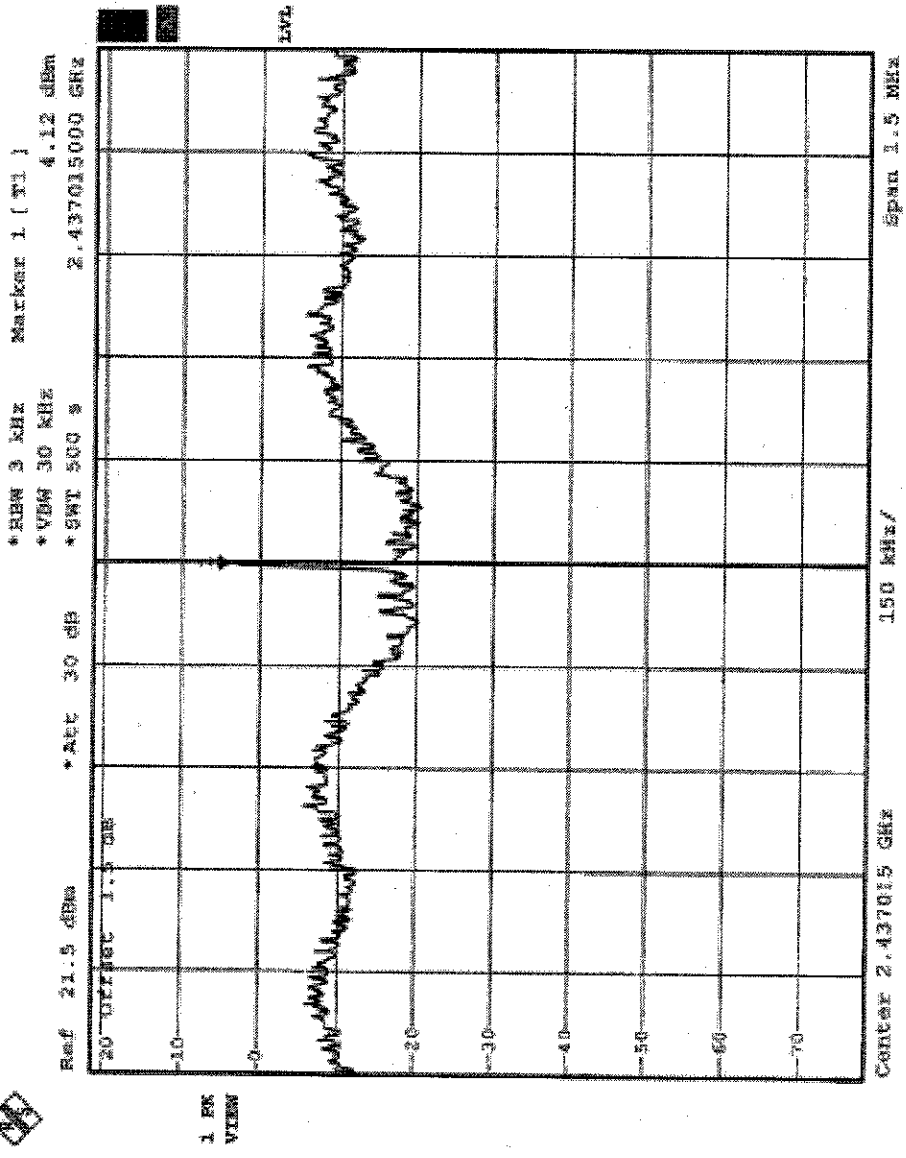
CH1





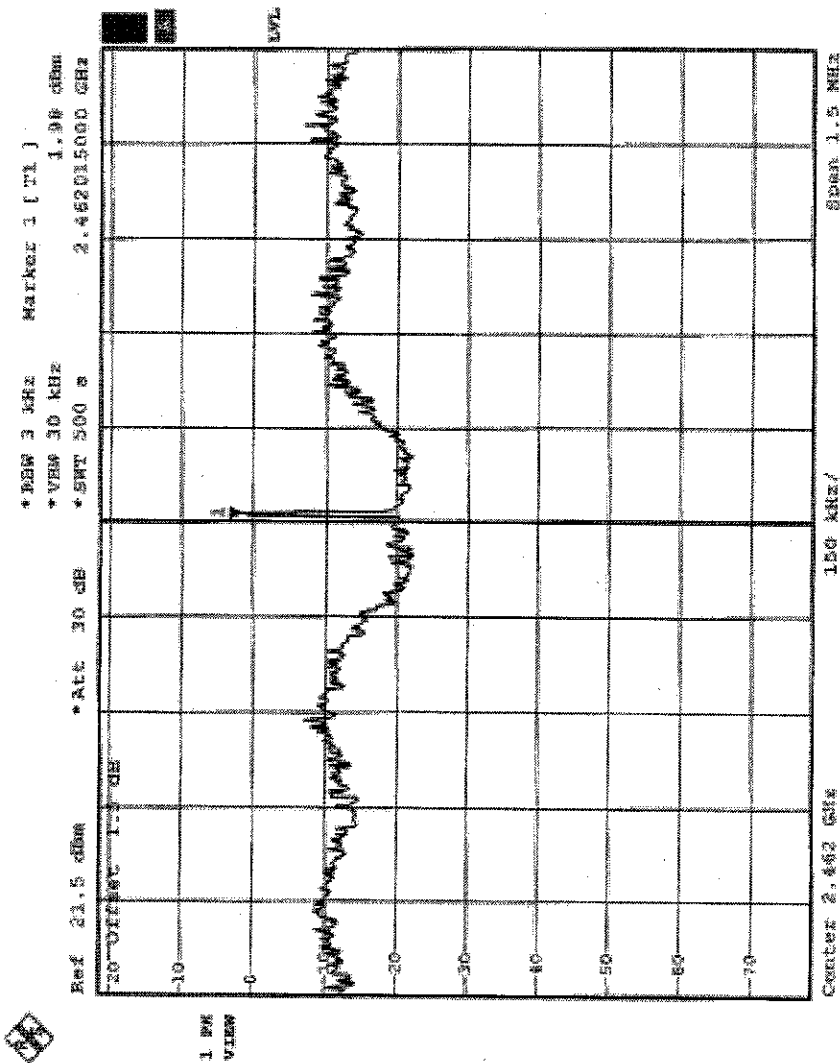


CH6





CH11





## 4.6 BAND EDGES MEASUREMENT

### 4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below  $-20\text{dB}$  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, 2004

**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 DEVIATION FROM TEST STANDARD

No deviation



#### 4.6.5 EUT OPERATING CONDITION

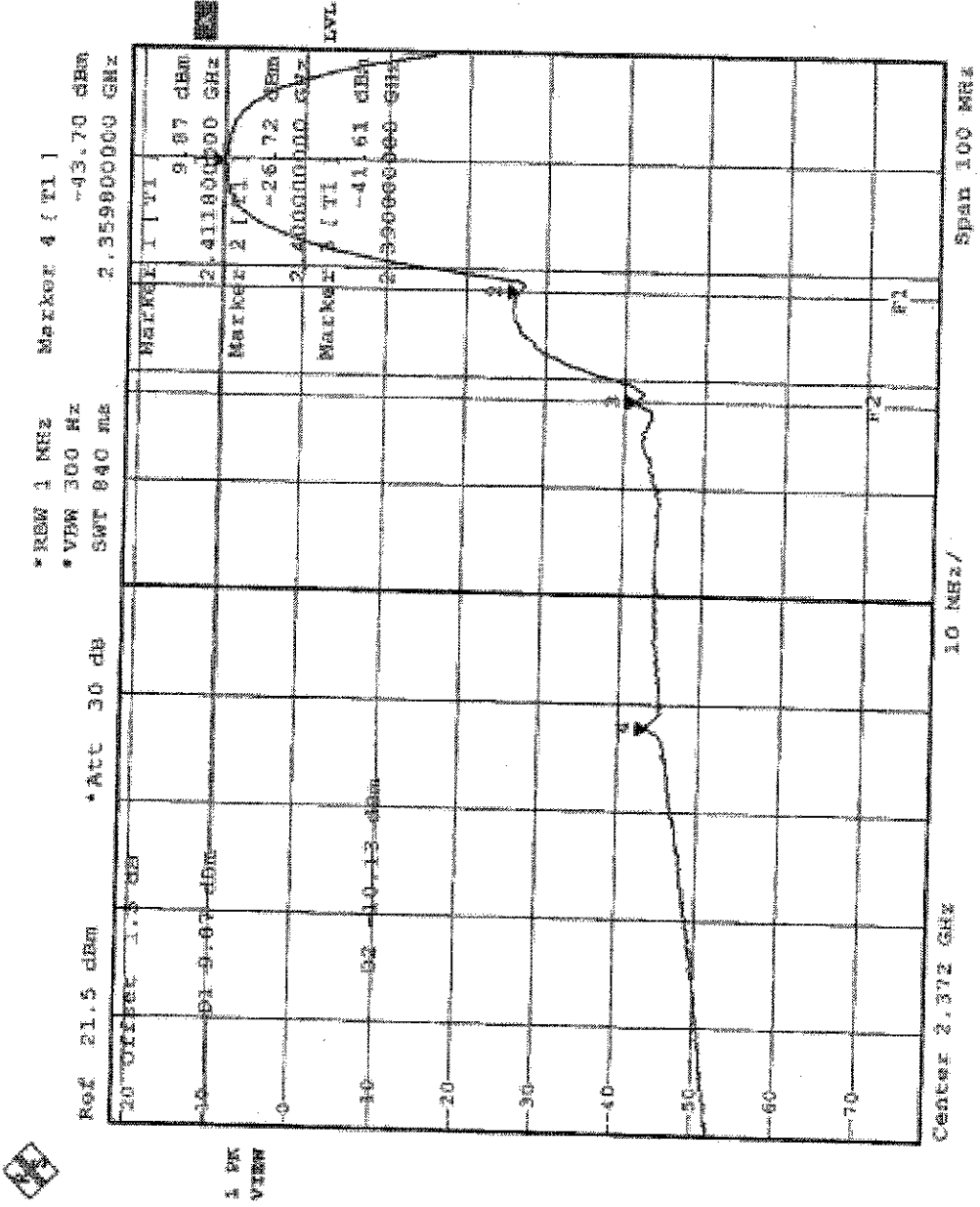
Same as Item 4.3.6

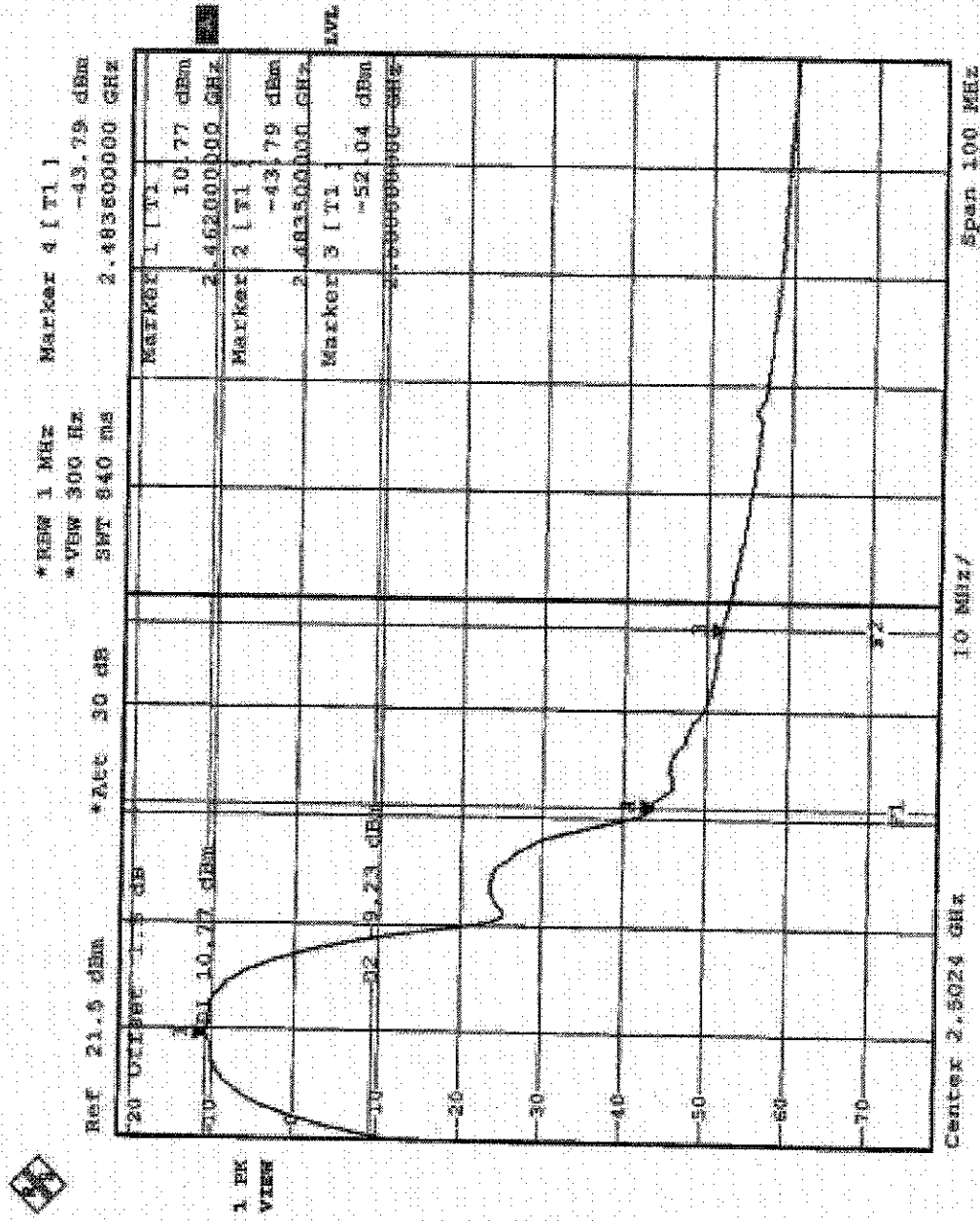
#### 4.6.6 TEST RESULTS –DSSS (Antenna 1)

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

**NOTE (1):** The band edge emission plot on the following first page shows 51.48dB 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 is 103.80dBuV/m, so the maximum field strength in restrict band is  $103.80 - 51.48 = 52.32$  dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 54.56 dB 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 is 105.20dBuV/m, so the maximum field strength in restrict band is  $105.20 - 54.56 = 50.64$  dBuV/m which is under 54 dBuV/m limit.





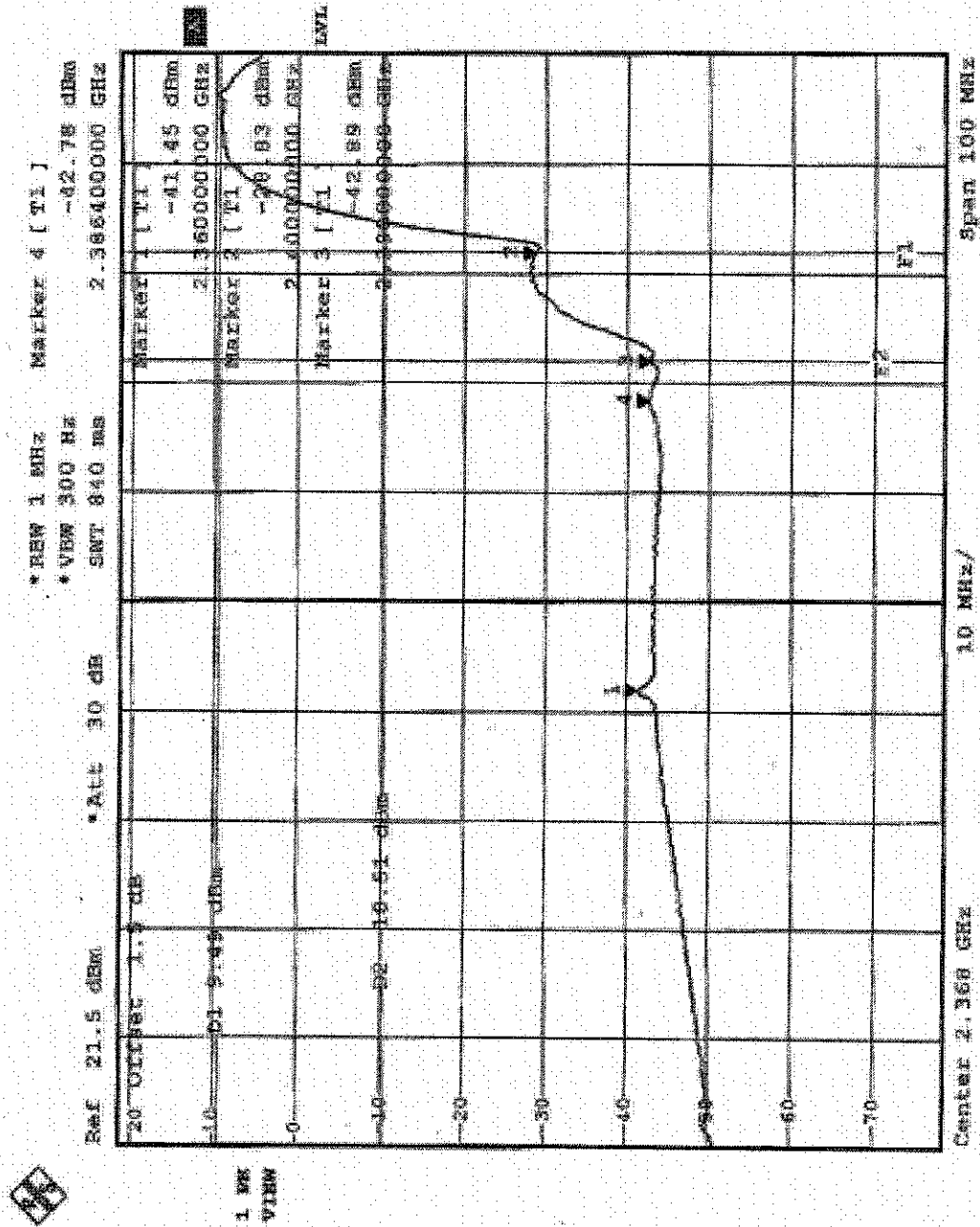


#### 4.6.7 TEST RESULTS –DSSS (Antenna 2)

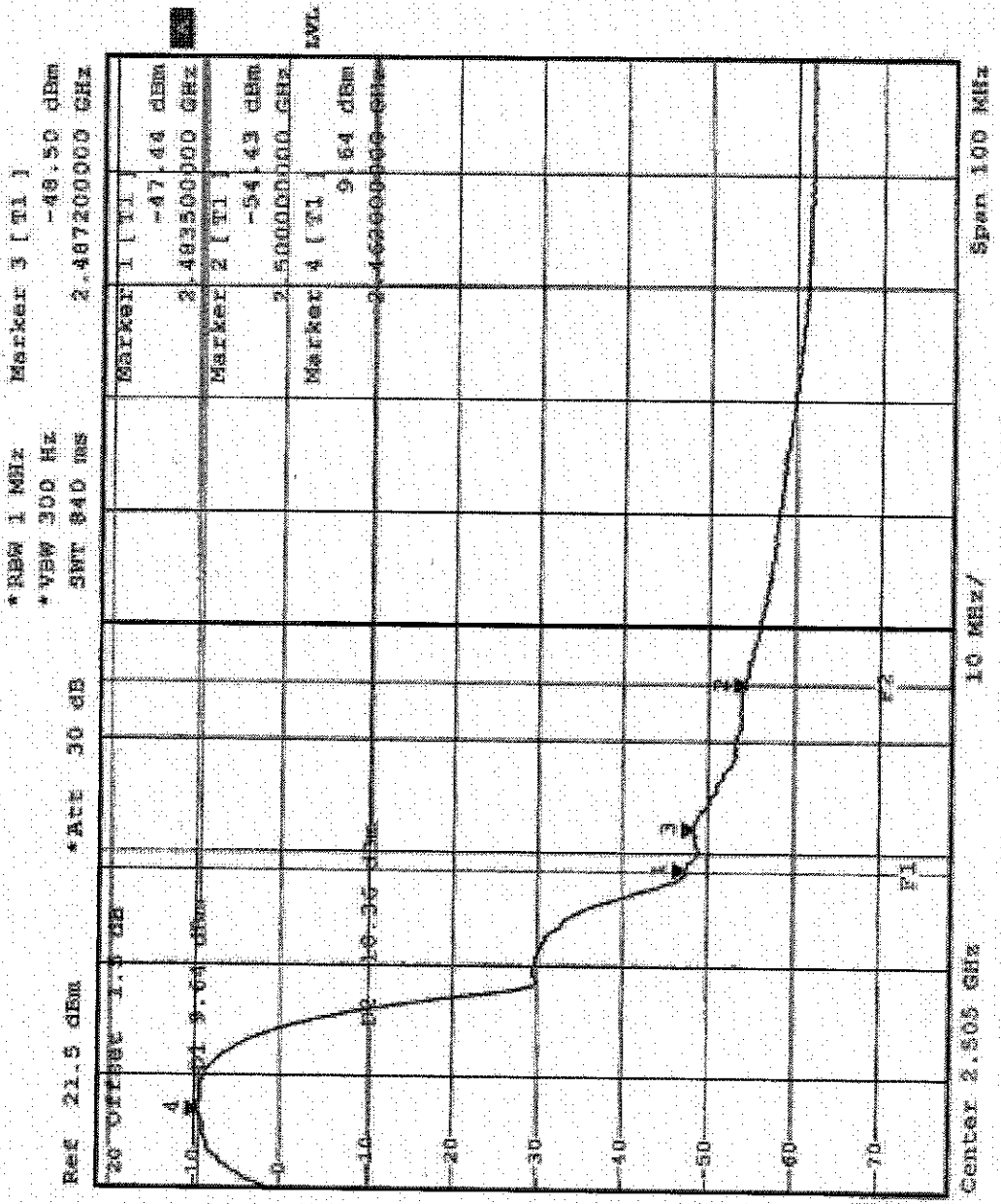
The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

**NOTE (1):** The band edge emission plot on the following first page shows 52.38dB 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 is 103.60dBuV/m, so the maximum field strength in restrict band is  $103.60 - 52.38 = 51.22$ dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 57.08 dB 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 is 105.70dBuV/m, so the maximum field strength in restrict band is  $105.70 - 57.08 = 48.62$ dBuV/m which is under 54 dBuV/m limit.







1 PK  
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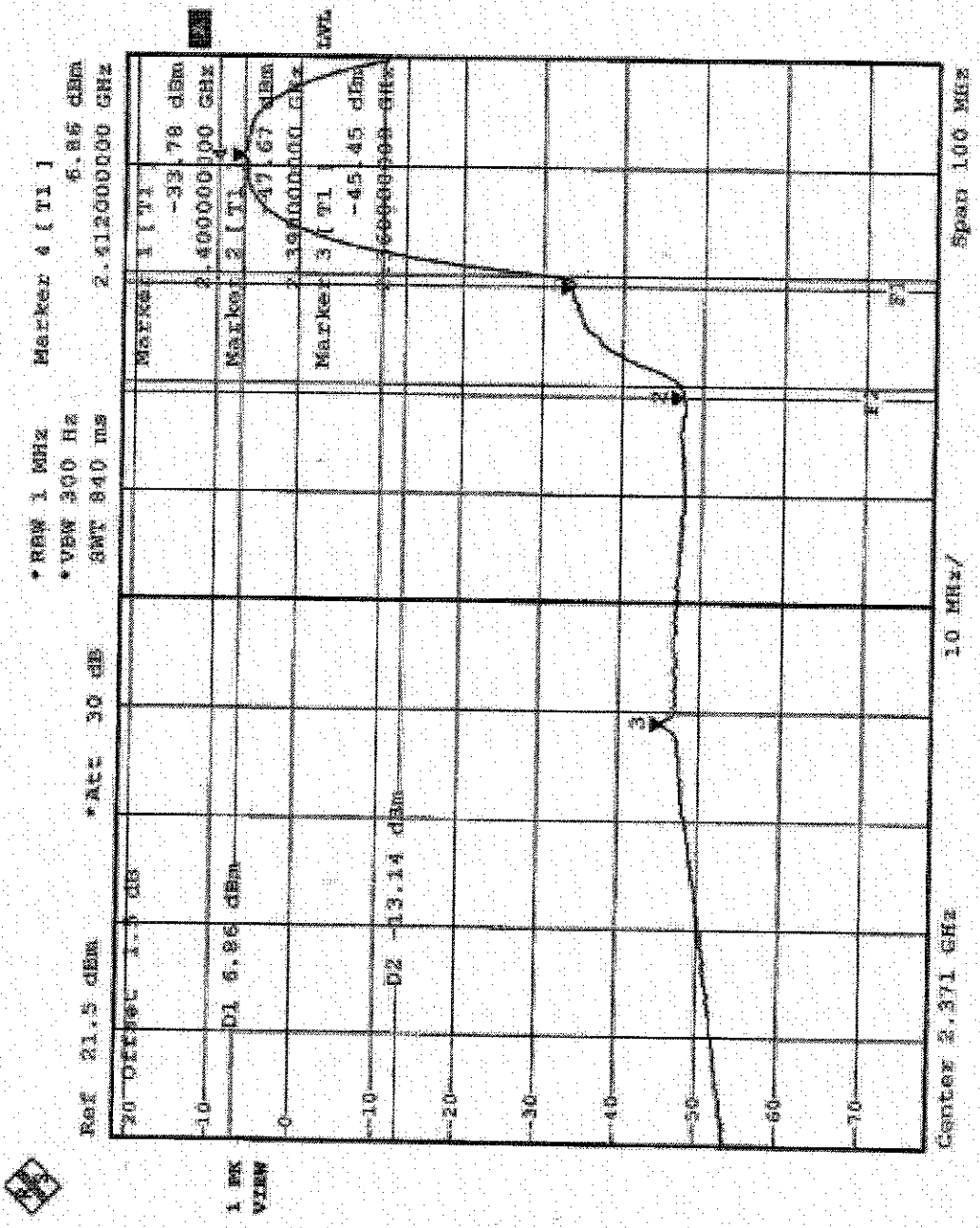


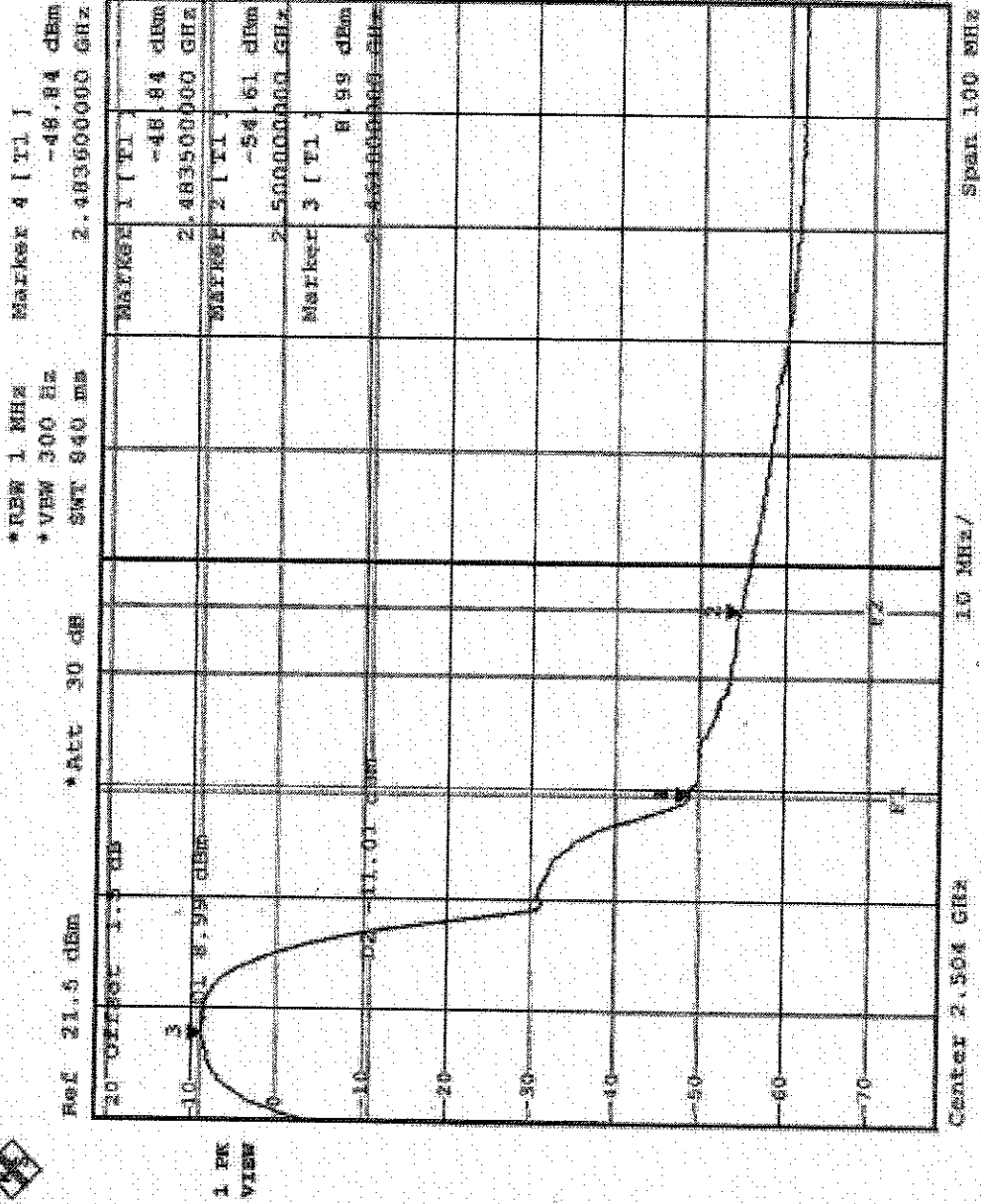
#### 4.6.8 TEST RESULTS –DSSS (Antenna 3)

The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, and 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 54.53dB 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 is 100.30dBuV/m, so the maximum field strength in restrict band is  $100.30 - 54.53 = 45.77$  dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 57.83 dB 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 is 102.10dBuV/m, so the maximum field strength in restrict band is  $102.10 - 57.83 = 44.27$  dBuV/m which is under 54 dBuV/m limit.





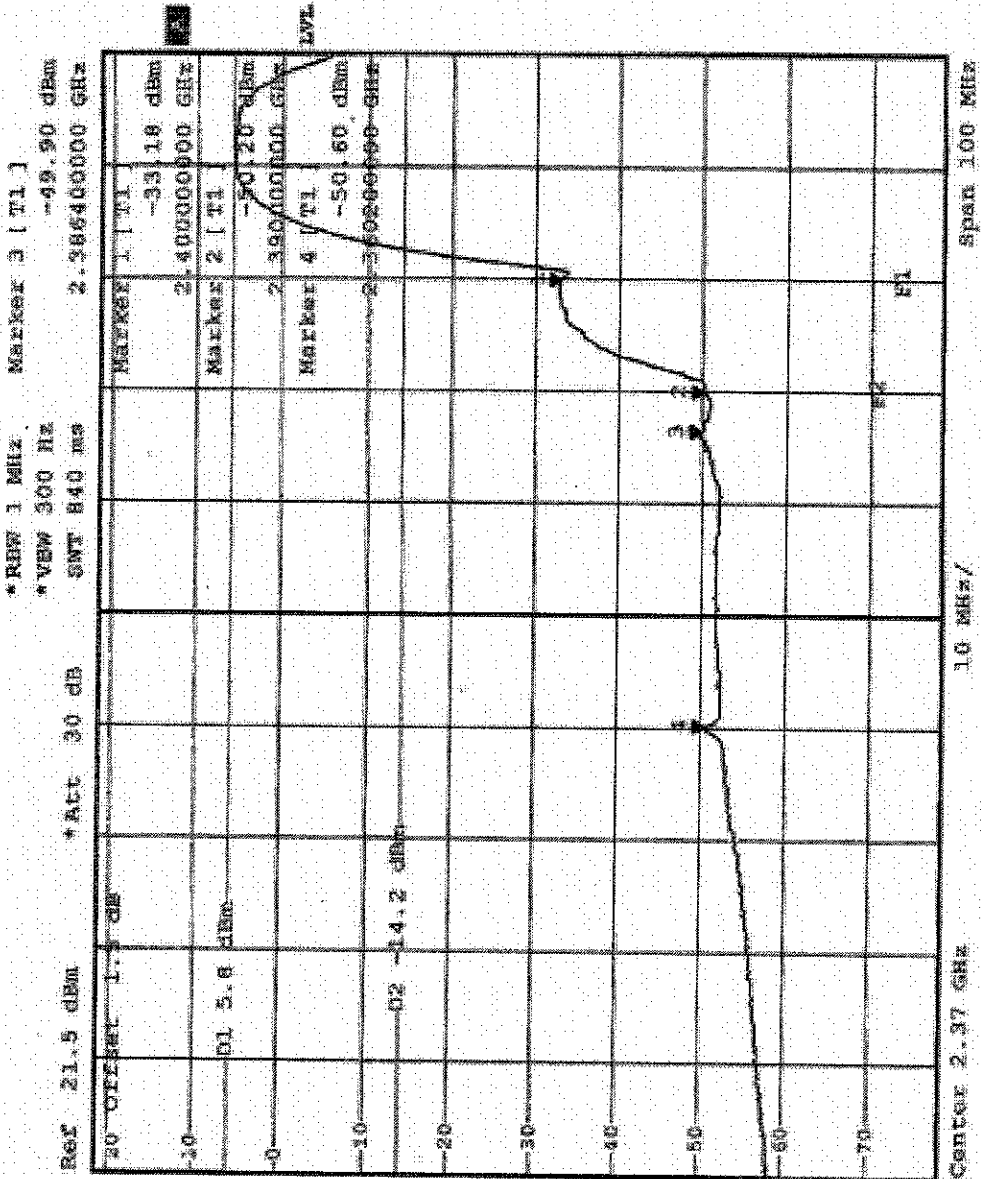


#### 4.6.9 TEST RESULTS –DSSS (Antenna 4)

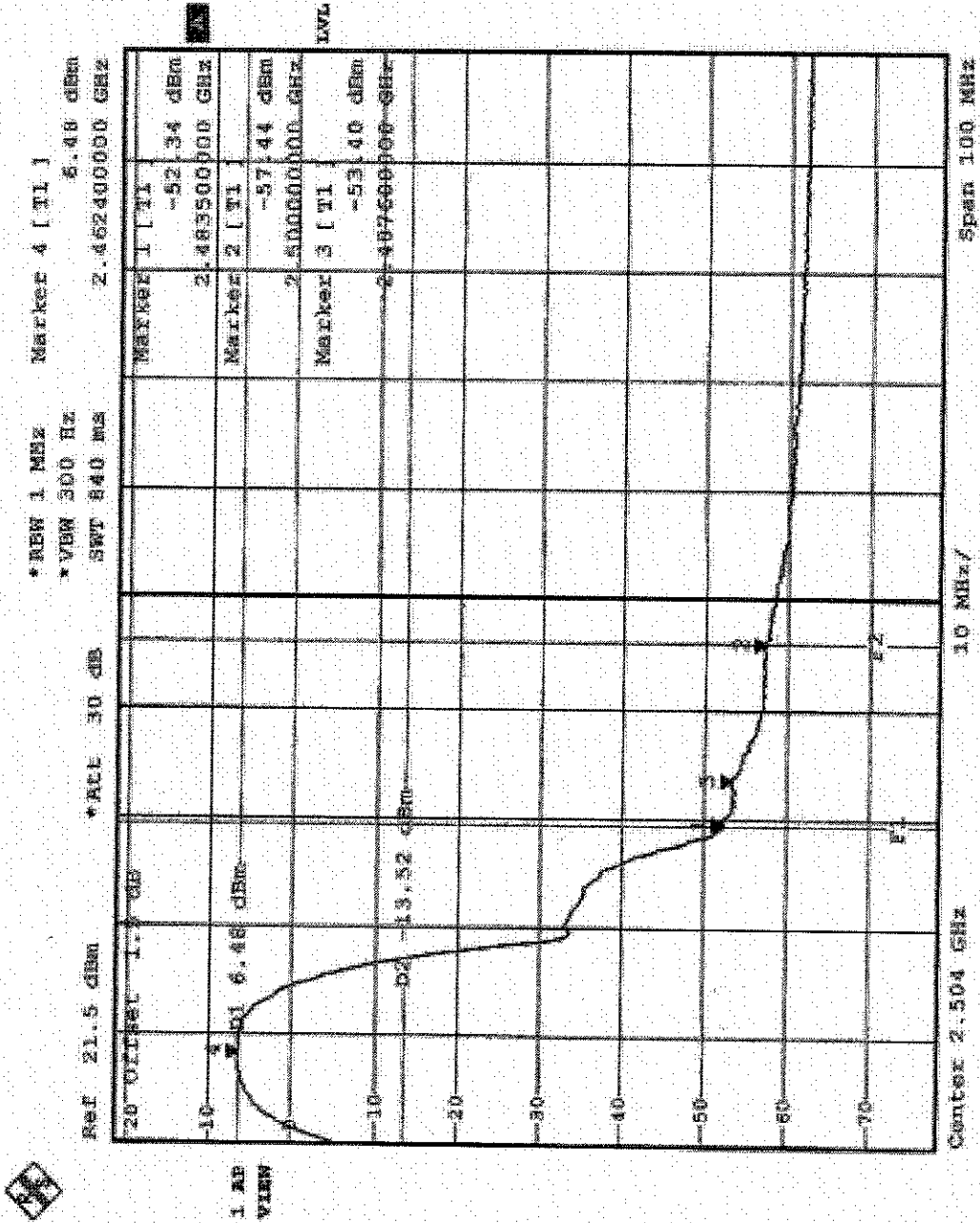
The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

**NOTE (1):** The band edge emission plot on the following first page shows 56.00dB delta between carrier maximum power and local maximum emission in restrict band (2.3864GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 107.80dBuV/m, so the maximum field strength in restrict band is  $107.80 - 56.00 = 51.80$  dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 58.82 dB 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 is 109.00dBuV/m, so the maximum field strength in restrict band is  $109.00 - 58.82 = 50.20$  dBuV/m which is under 54 dBuV/m limit.



1 MK VIEW





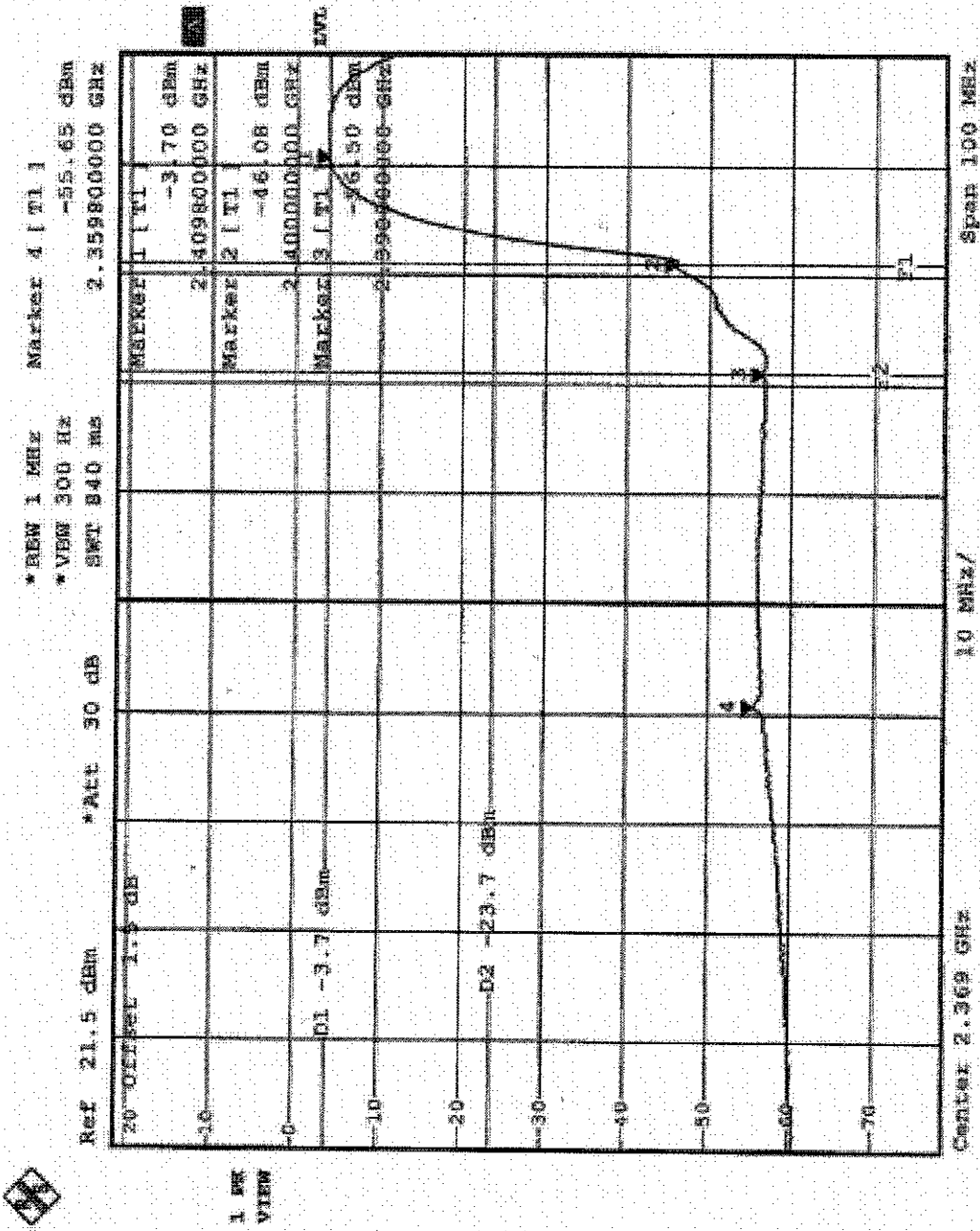
#### 4.6.10 TEST RESULTS –DSSS (Antenna 5)

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

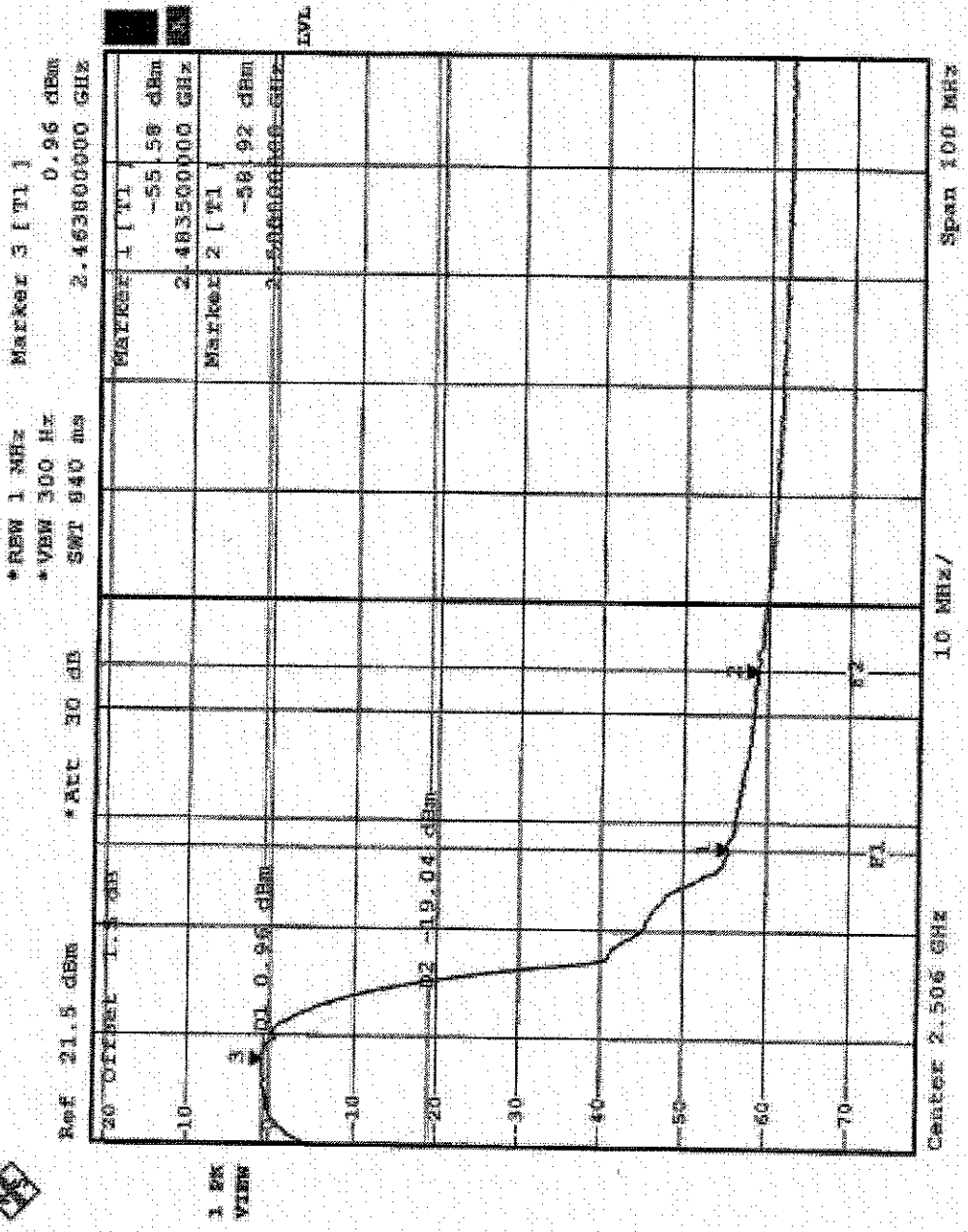
**NOTE (1):** The band edge emission plot on the following first page shows 52.80dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 104.30dBuV/m, so the maximum field strength in restrict band is  $104.30 - 52.80 = 51.50$  dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 56.54 dB 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 is 109.60dBuV/m, so the maximum field strength in restrict band is  $109.60 - 56.54 = 53.06$  dBuV/m which is under 54 dBuV/m limit.





1 PR VIEW





#### 4.6.11 TEST RESULTS –DSSS (Antenna 6)

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

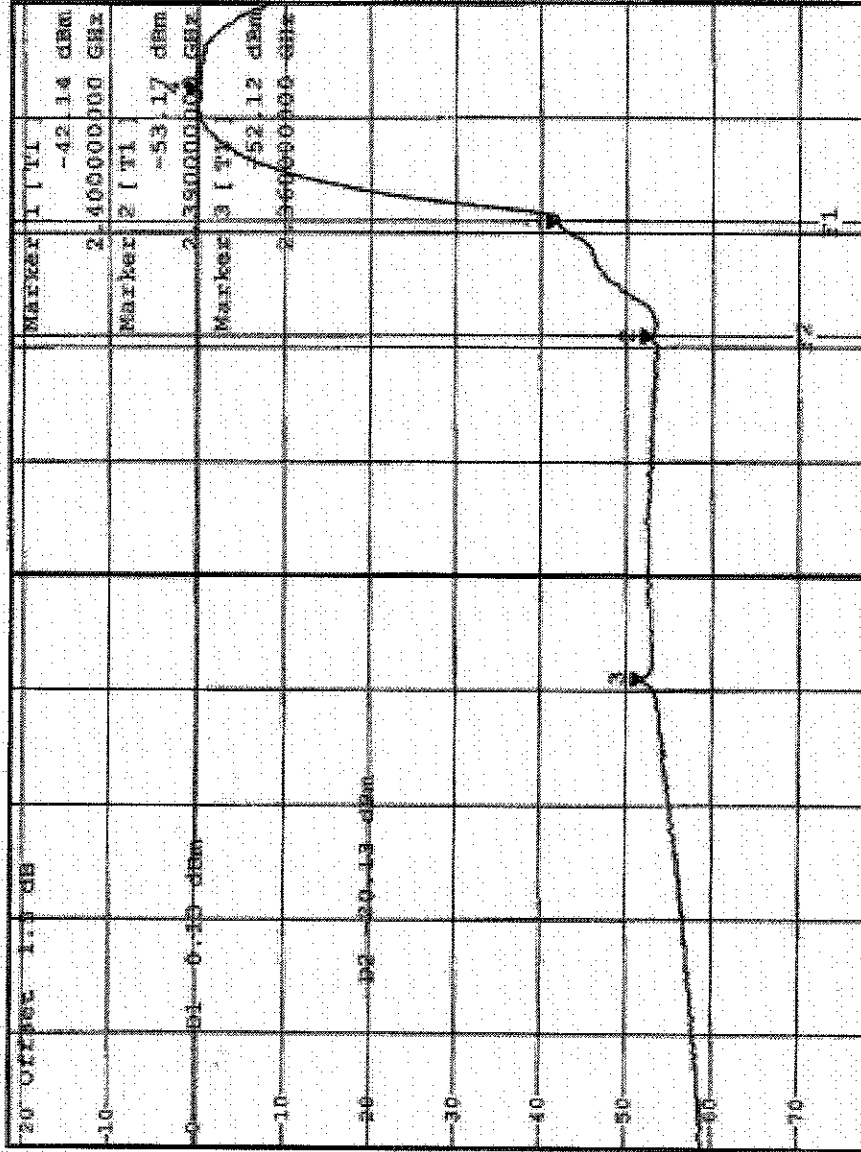
**NOTE (1):** The band edge emission plot on the following first page shows 53.04dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 105.50dBuV/m, so the maximum field strength in restrict band is  $105.50 - 53.04 = 52.46$ dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 57.87 dB 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 is 108.10dBuV/m, so the maximum field strength in restrict band is  $108.10 - 57.87 = 50.23$ dBuV/m which is under 54 dBuV/m limit.



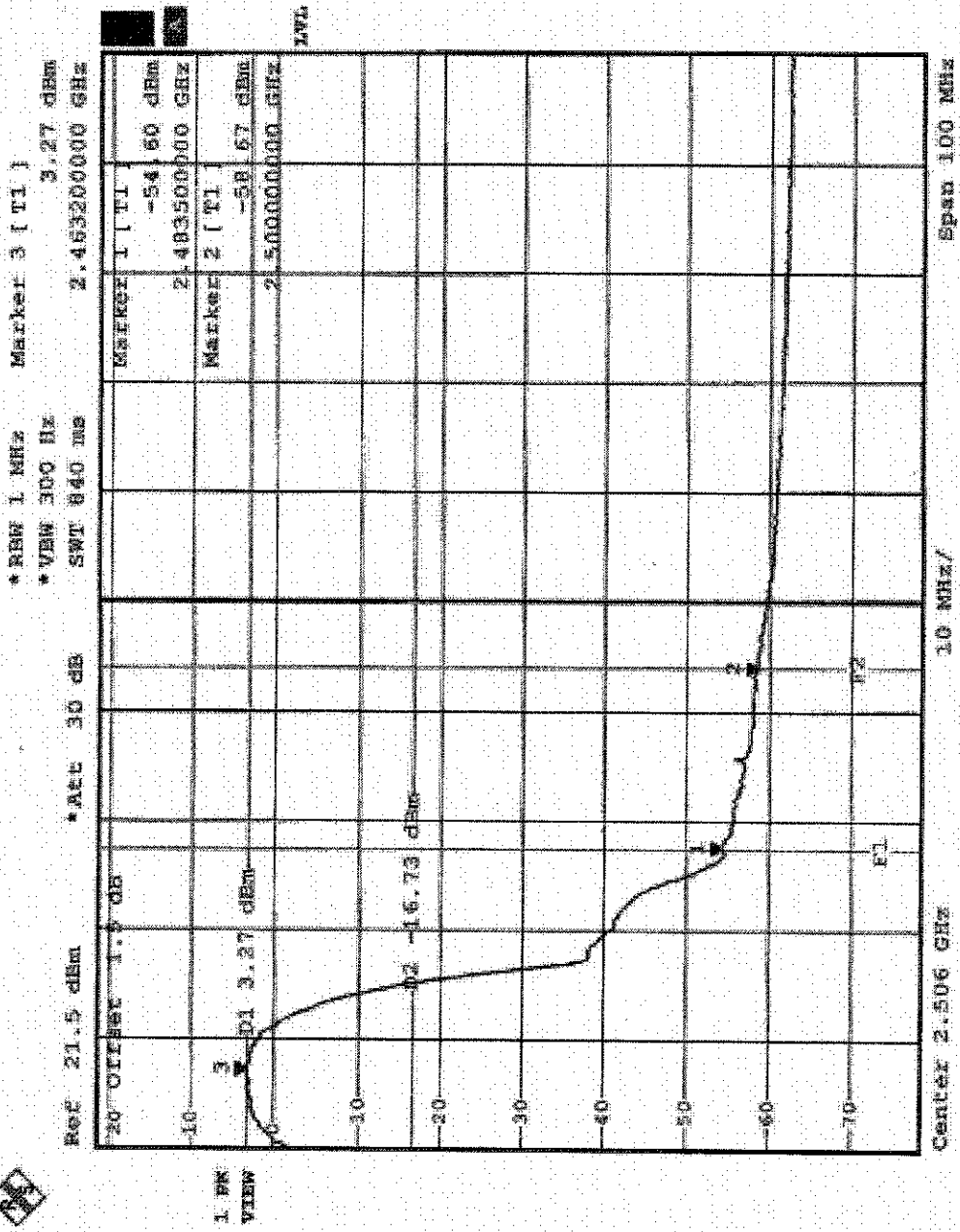
\*RAW 1 MHz Marker 4 [TL] -0.13 dBm  
 \*VIEW 300 Hz SWI 840 ms 2.411600000 GHz

Ref 21.5 dBm \*Att 30 dB



Center 2.411 GHz Span 100 MHz 10 MHz/

1 BK VIEW



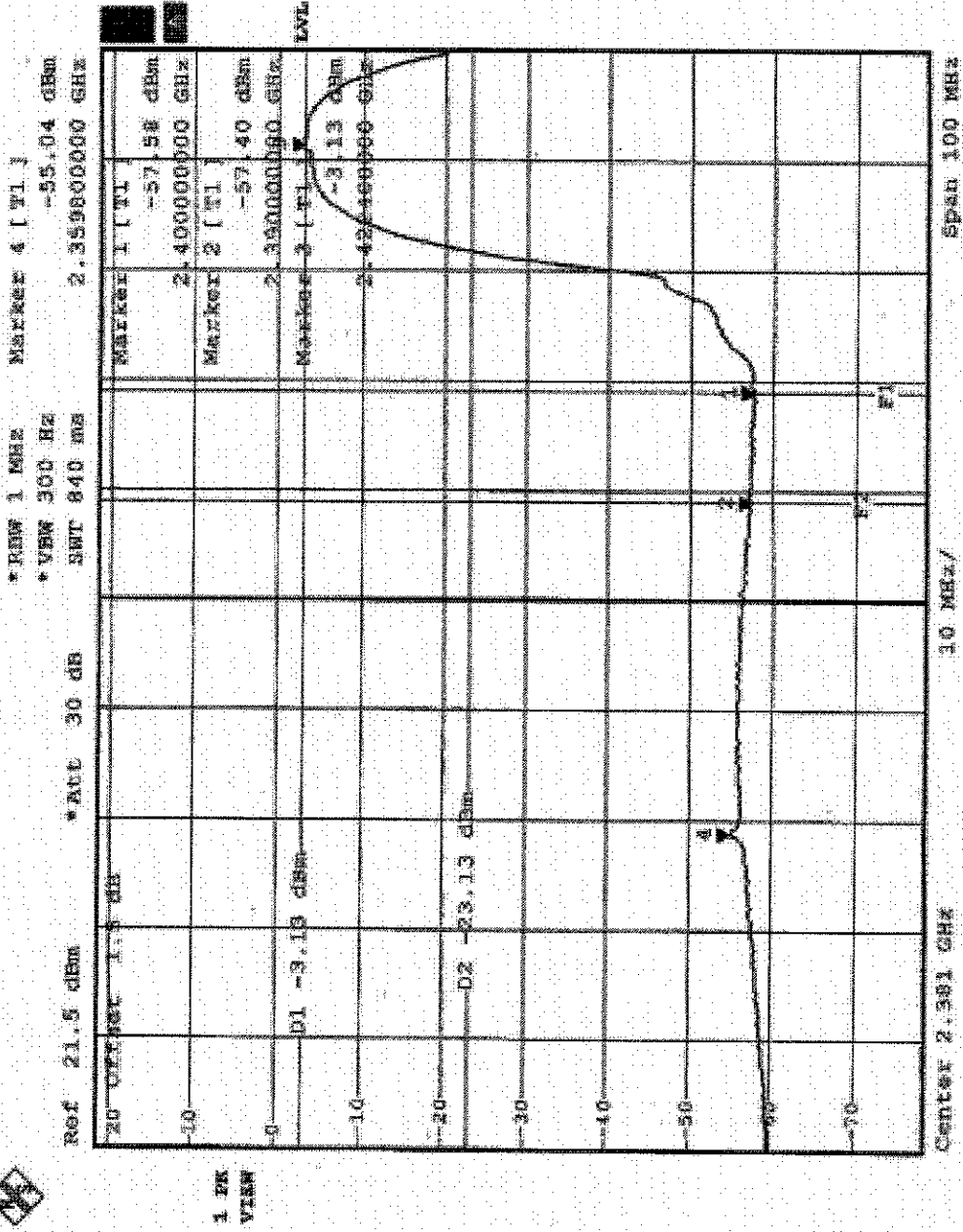


#### 4.6.12 TEST RESULTS –DSSS (Antenna 7)

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

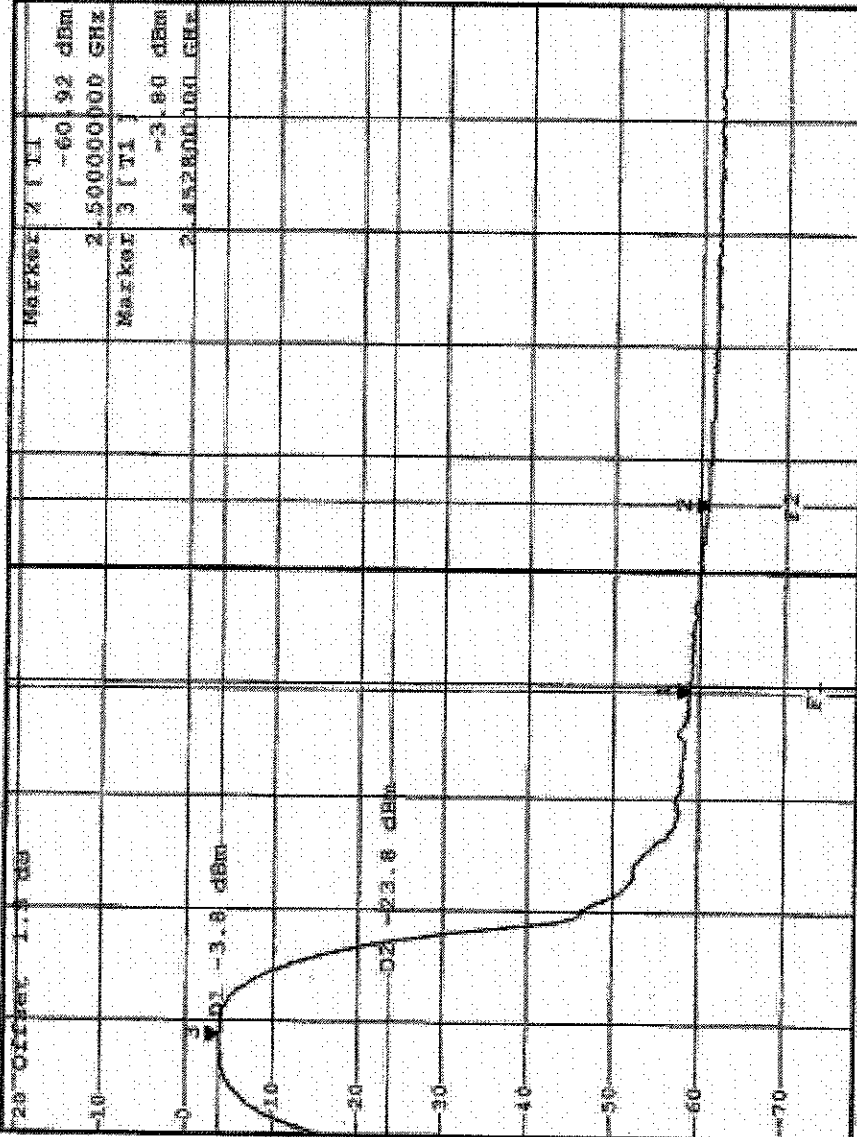
**NOTE (1):** The band edge emission plot on the following first page shows 54.27dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 107.60dBuV/m, so the maximum field strength in restrict band is  $107.60 - 54.27 = 53.33$ dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 55.03 dB 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 is 108.20dBuV/m, so the maximum field strength in restrict band is  $108.20 - 55.03 = 53.17$ dBuV/m which is under 54 dBuV/m limit.





\* RBW 1 MHz  
 \* VBW 300 Hz  
 \* SMT 840 ms  
 \* All 30 dB  
 Ref 21.9 dBm  
 20 Offset 1.1 dB



Center 2.494 GHz  
 10 MHz /  
 Span 100 MHz



1. PR  
 VIEW



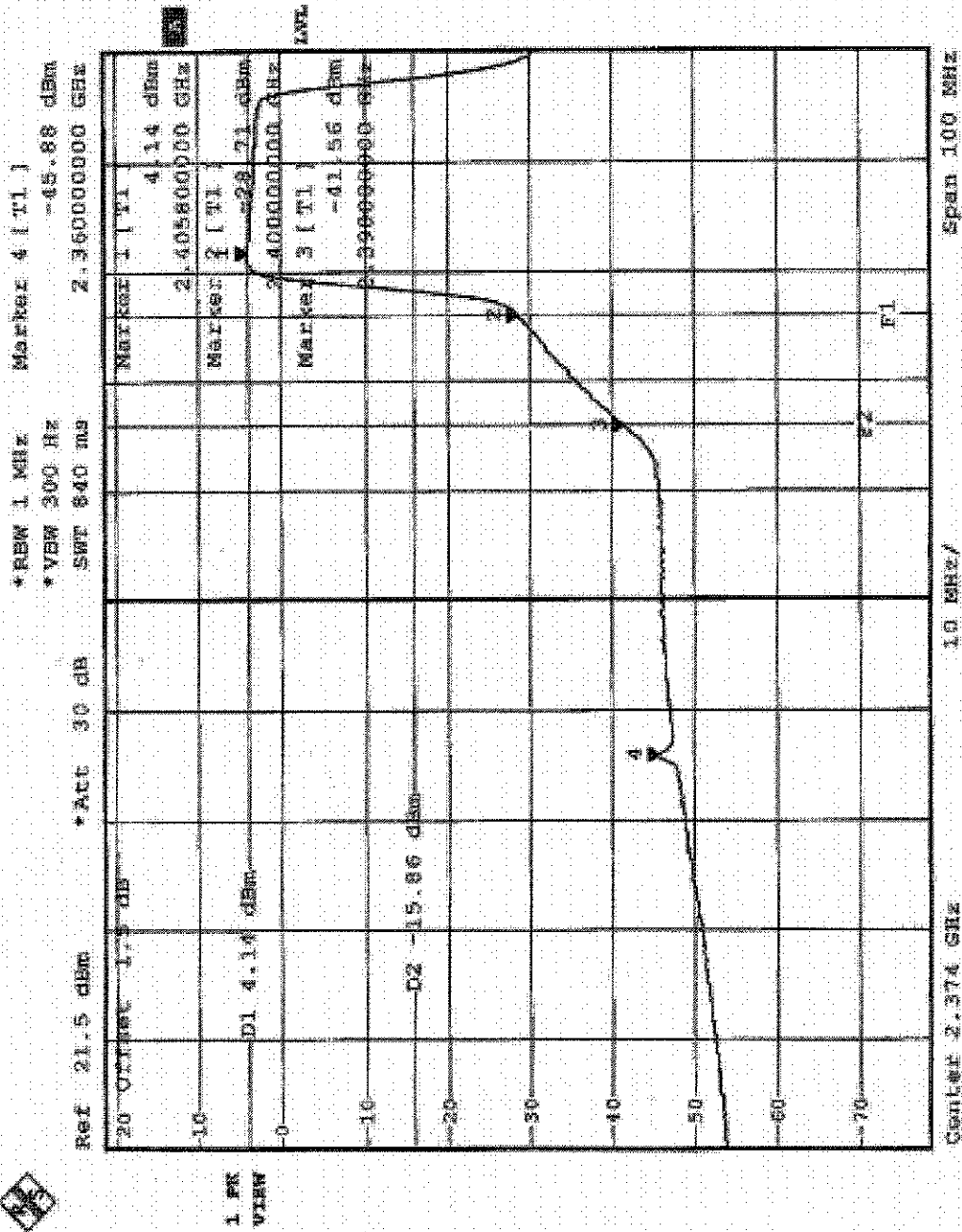


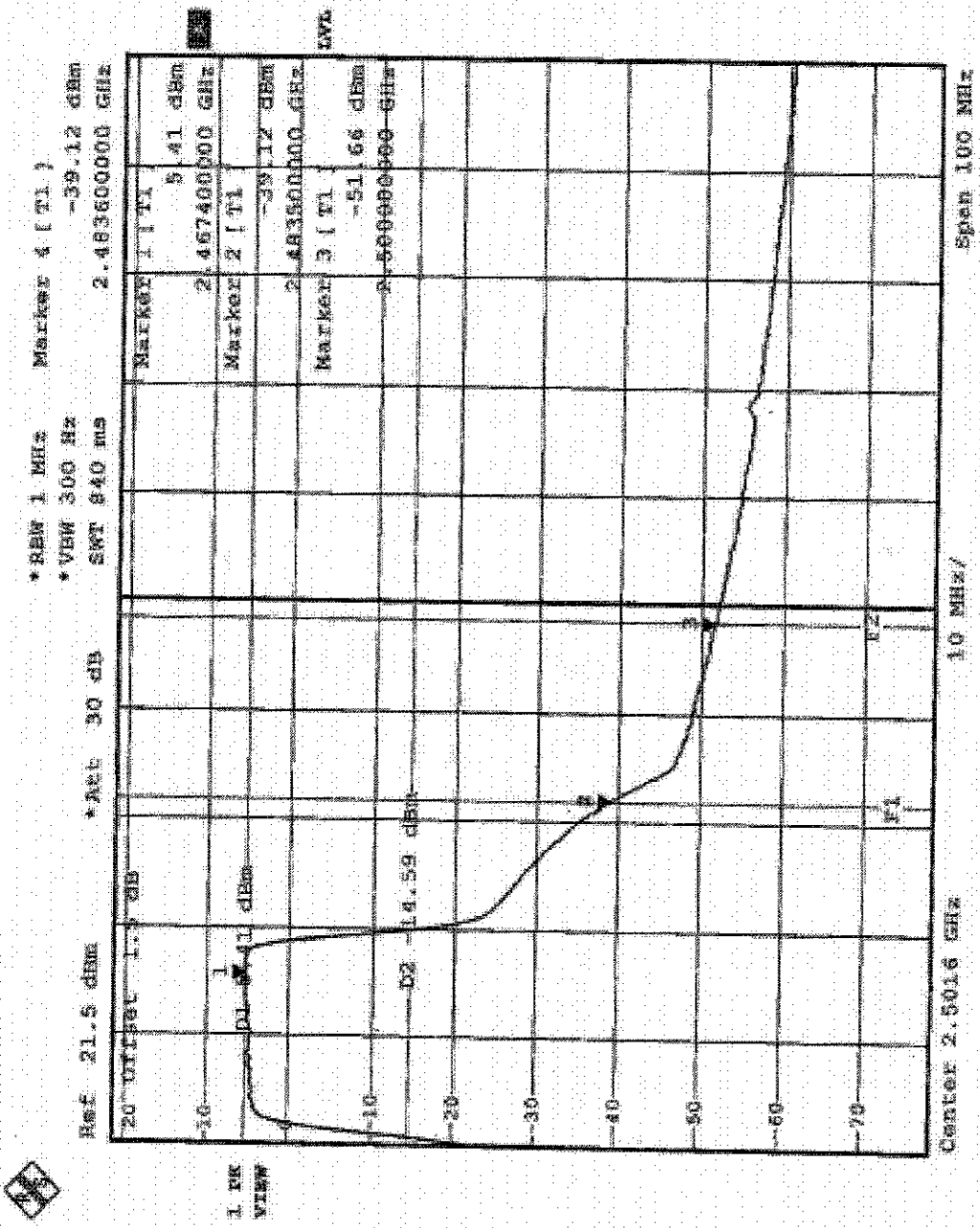
#### 4.6.13 TEST RESULTS –OFDM (Antenna 1)

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

**NOTE (1):** The band edge emission plot on the following first page shows 45.70dB delta between carrier maximum power and local maximum emission in restrict band (2.390GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 98.50dBuV/m, so the maximum field strength in restrict band is  $98.50 - 45.70 = 52.80$  dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 44.53 dB 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 is 98.00dBuV/m, so the maximum field strength in restrict band is  $98.00 - 44.53 = 53.47$  dBuV/m which is under 54 dBuV/m limit.







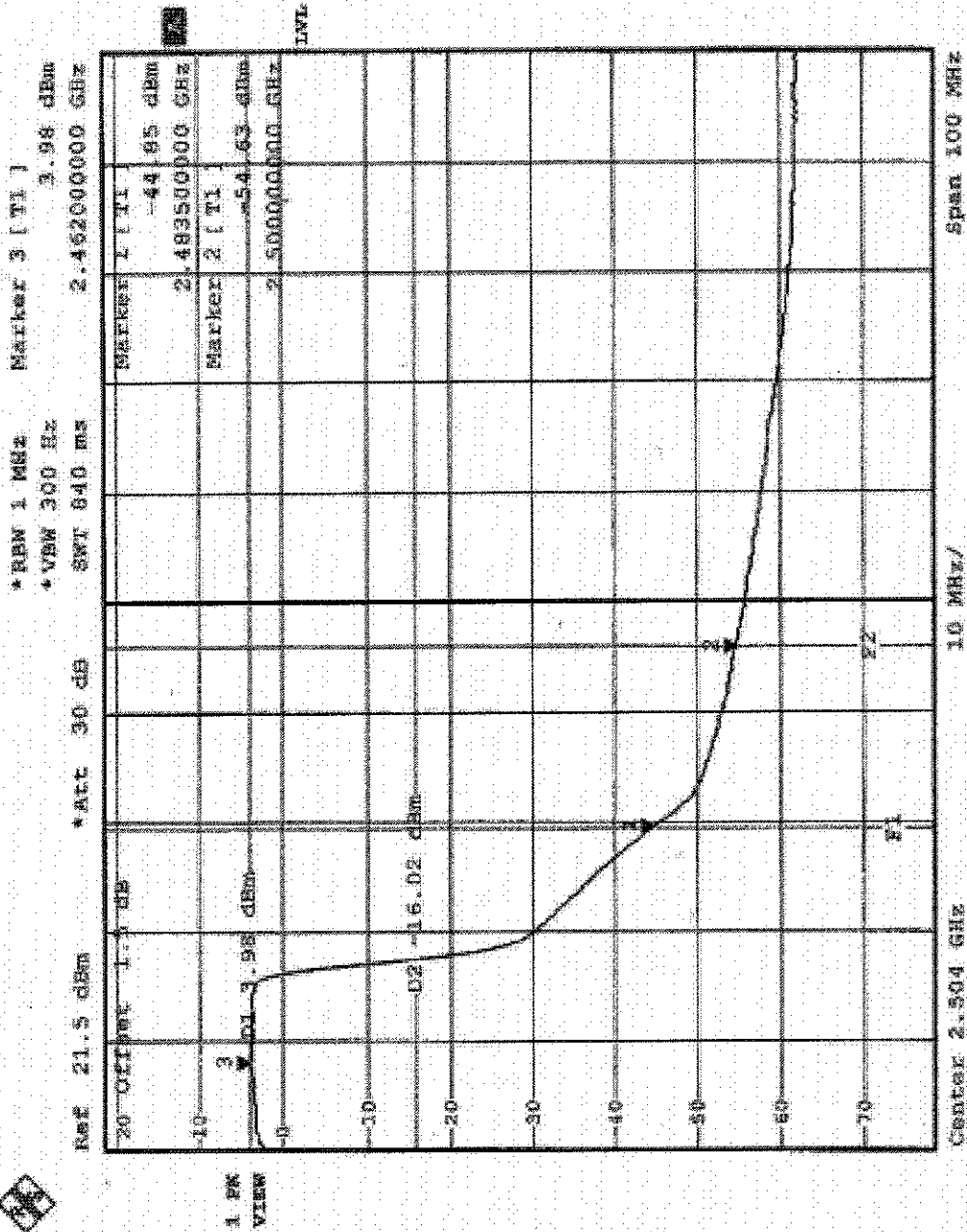
#### 4.6.14 TEST RESULTS –OFDM (Antenna 2)

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

**NOTE (1):** The band edge emission plot on the following first page shows 46.66dB delta between carrier maximum power and local maximum emission in restrict band (2.390GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 98.20dBuV/m, so the maximum field strength in restrict band is  $98.20 - 46.66 = 51.54$  dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 48.83 dB 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 is 100.20dBuV/m, so the maximum field strength in restrict band is  $100.20 - 48.83 = 51.37$  dBuV/m which is under 54 dBuV/m limit.





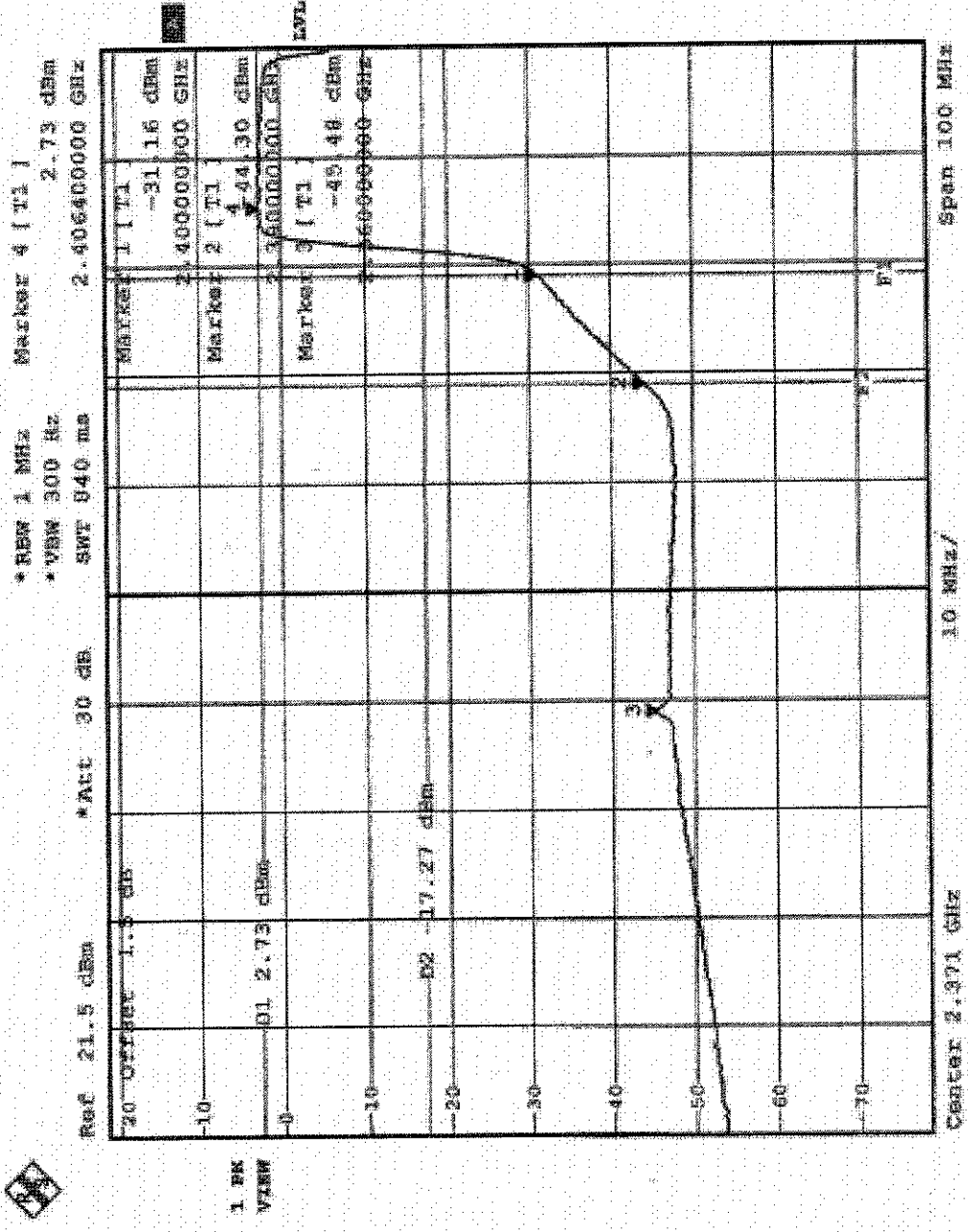


#### 4.6.15 TEST RESULTS –OFDM (Antenna 3)

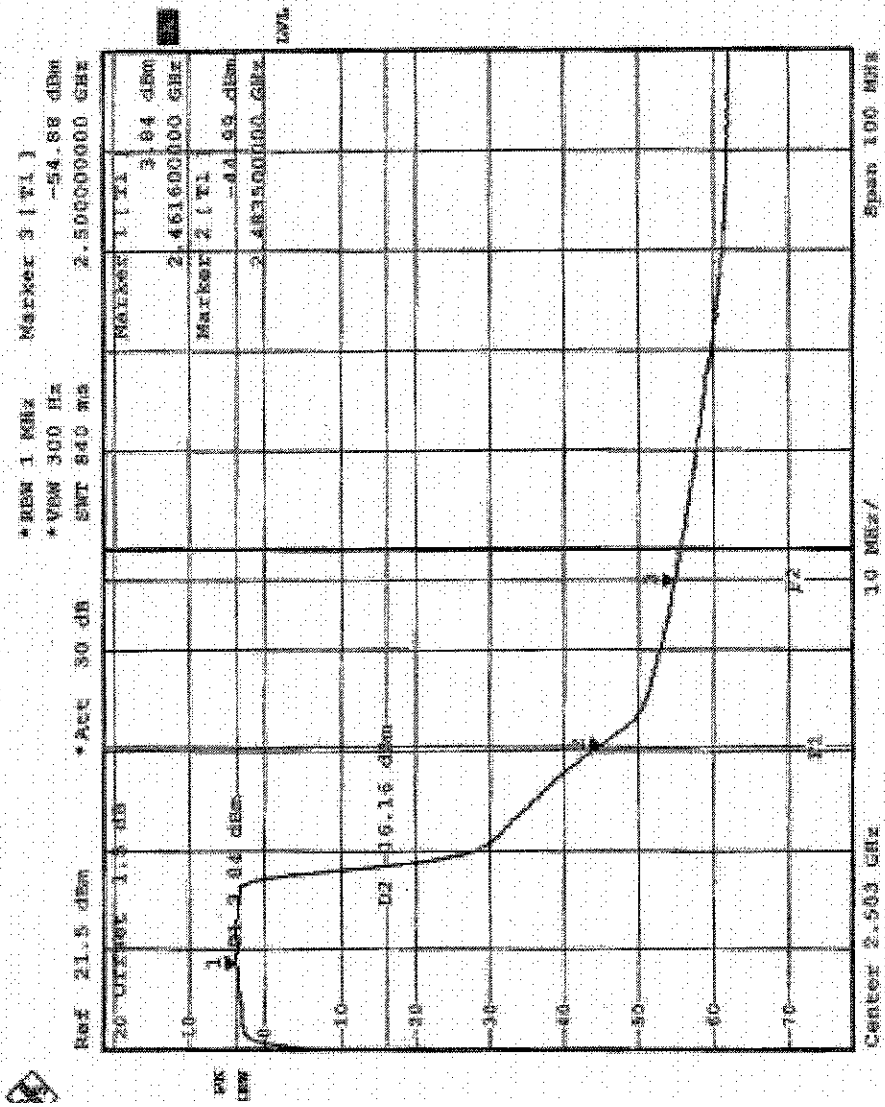
The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

**NOTE (1):** The band edge emission plot on the following first page shows 47.03dB delta between carrier maximum power and local maximum emission in restrict band (2.390GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 98.50dBuV/m, so the maximum field strength in restrict band is  $98.50 - 47.03 = 51.47$  dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 48.83 dB 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 is 98.90dBuV/m, so the maximum field strength in restrict band is  $98.90 - 48.83 = 50.07$  dBuV/m which is under 54 dBuV/m limit.









#### 4.6.16 TEST RESULTS –OFDM (Antenna 4)

The spectrum plots are attached on the following 2 pages. D1 line indicates the highest level, and 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 48.92dB delta between carrier maximum power and local maximum emission in restrict band (2.390GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 100.20dBuV/m, so the maximum field strength in restrict band is  $100.20 - 48.92 = 51.28$  dBuV/m which is under 54 dBuV/m limit.

**NOTE (2):** The band edge emission plot on the following second page shows 49.94 dB 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 is 101.50dBuV/m, so the maximum field strength in restrict band is  $101.50 - 49.94 = 51.56$  dBuV/m which is under 54 dBuV/m limit.

