



## Appendix for Test report

## Appendix A: DTS (6 dB) Bandwidth

In this document, the "DTS6dBBW" refers to the measured "DTS (6 dB) Bandwidth" value. In this Appendix, the "fc(DTS6dBBW)" refers to the centre of the measured "DTS6dBBW". The introduction of the "fc(DTS6dBBW)" is due to that other measurements use it as the spectrum analyzer setting.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

### Part I - Test Results

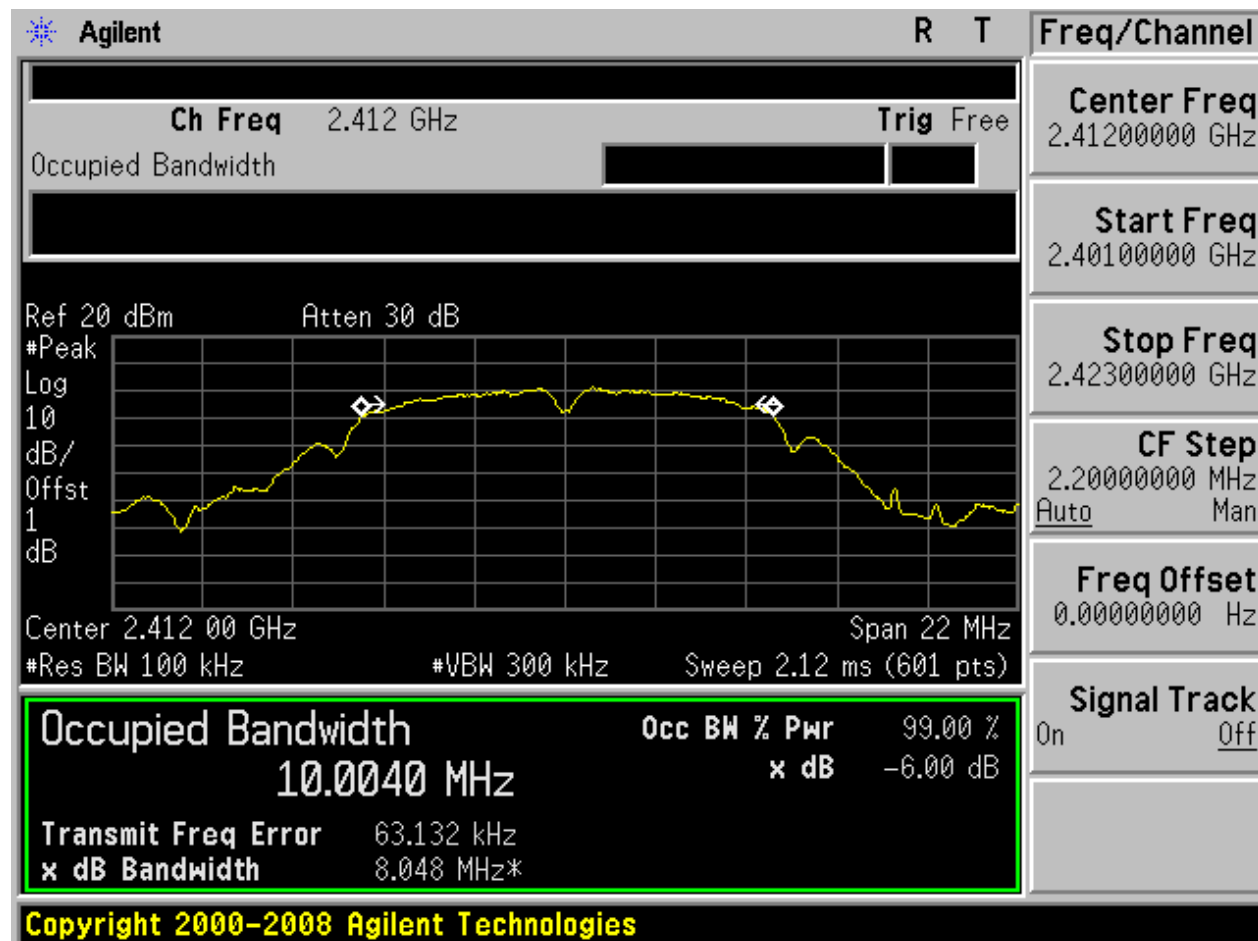
| Test Mode | Test Channel | Frequency[MHz] | Ant   | DTS6dBBW[MHz] | Verdict |
|-----------|--------------|----------------|-------|---------------|---------|
| 11B       | L            | 2412           | Ant 1 | 8.05          | pass    |
| 11B       | L            | 2412           | Ant 2 | 8.07          | pass    |
| 11B       | M            | 2437           | Ant 1 | 8.15          | pass    |
| 11B       | M            | 2437           | Ant 2 | 8.17          | pass    |
| 11B       | H            | 2462           | Ant 1 | 7.99          | pass    |
| 11B       | H            | 2462           | Ant 2 | 8.07          | pass    |
| 11G       | L            | 2412           | Ant 1 | 15.72         | pass    |
| 11G       | L            | 2412           | Ant 2 | 15.73         | pass    |
| 11G       | M            | 2437           | Ant 1 | 16.39         | pass    |
| 11G       | M            | 2437           | Ant 2 | 16.42         | pass    |
| 11G       | H            | 2462           | Ant 1 | 15.96         | pass    |
| 11G       | H            | 2462           | Ant 2 | 15.70         | pass    |
| 11N20     | L            | 2412           | Ant 1 | 15.99         | pass    |
| 11N20     | L            | 2412           | Ant 2 | 17.30         | pass    |
| 11N20     | M            | 2437           | Ant 1 | 17.62         | pass    |
| 11N20     | M            | 2437           | Ant 2 | 17.66         | pass    |
| 11N20     | H            | 2462           | Ant 1 | 17.25         | pass    |
| 11N20     | H            | 2462           | Ant 2 | 17.27         | pass    |
| 11N20m    | L            | 2412           | Ant 1 | 15.73         | pass    |
| 11N20m    | L            | 2412           | Ant 2 | 15.74         | pass    |
| 11N20m    | M            | 2437           | Ant 1 | 17.62         | pass    |
| 11N20m    | M            | 2437           | Ant 2 | 17.65         | pass    |
| 11N20m    | H            | 2462           | Ant 1 | 16.89         | pass    |
| 11N20m    | H            | 2462           | Ant 2 | 17.46         | pass    |
| 11N40     | L            | 2422           | Ant 1 | 36.36         | pass    |
| 11N40     | L            | 2422           | Ant 2 | 36.38         | pass    |
| 11N40     | M            | 2437           | Ant 1 | 36.56         | pass    |
| 11N40     | M            | 2437           | Ant 2 | 36.57         | pass    |



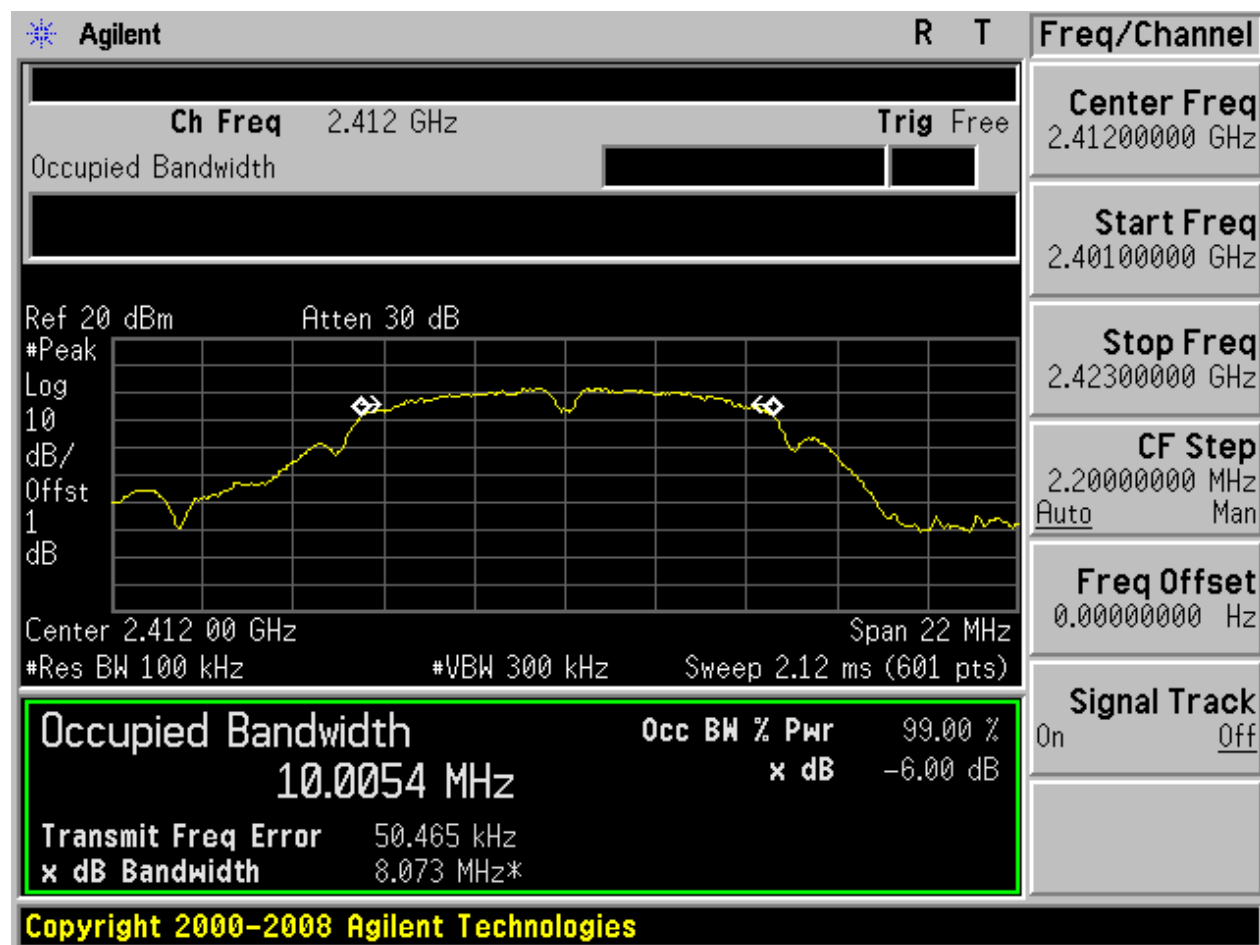
| Test Mode | Test Channel | Frequency[MHz] | Ant   | DTS6dBBW[MHz] | Verdict |
|-----------|--------------|----------------|-------|---------------|---------|
| 11N40     | H            | 2452           | Ant 1 | 36.42         | pass    |
| 11N40     | H            | 2452           | Ant 2 | 36.45         | pass    |
| 11N40m    | L            | 2422           | Ant 1 | 36.38         | pass    |
| 11N40m    | L            | 2422           | Ant 2 | 36.40         | pass    |
| 11N40m    | M            | 2437           | Ant 1 | 36.56         | pass    |
| 11N40m    | M            | 2437           | Ant 2 | 36.58         | pass    |
| 11N40m    | H            | 2452           | Ant 1 | 36.44         | pass    |
| 11N40m    | H            | 2452           | Ant 2 | 36.44         | pass    |

## Part II - Test Plots

### 2.1 11B\_L@Ant 1

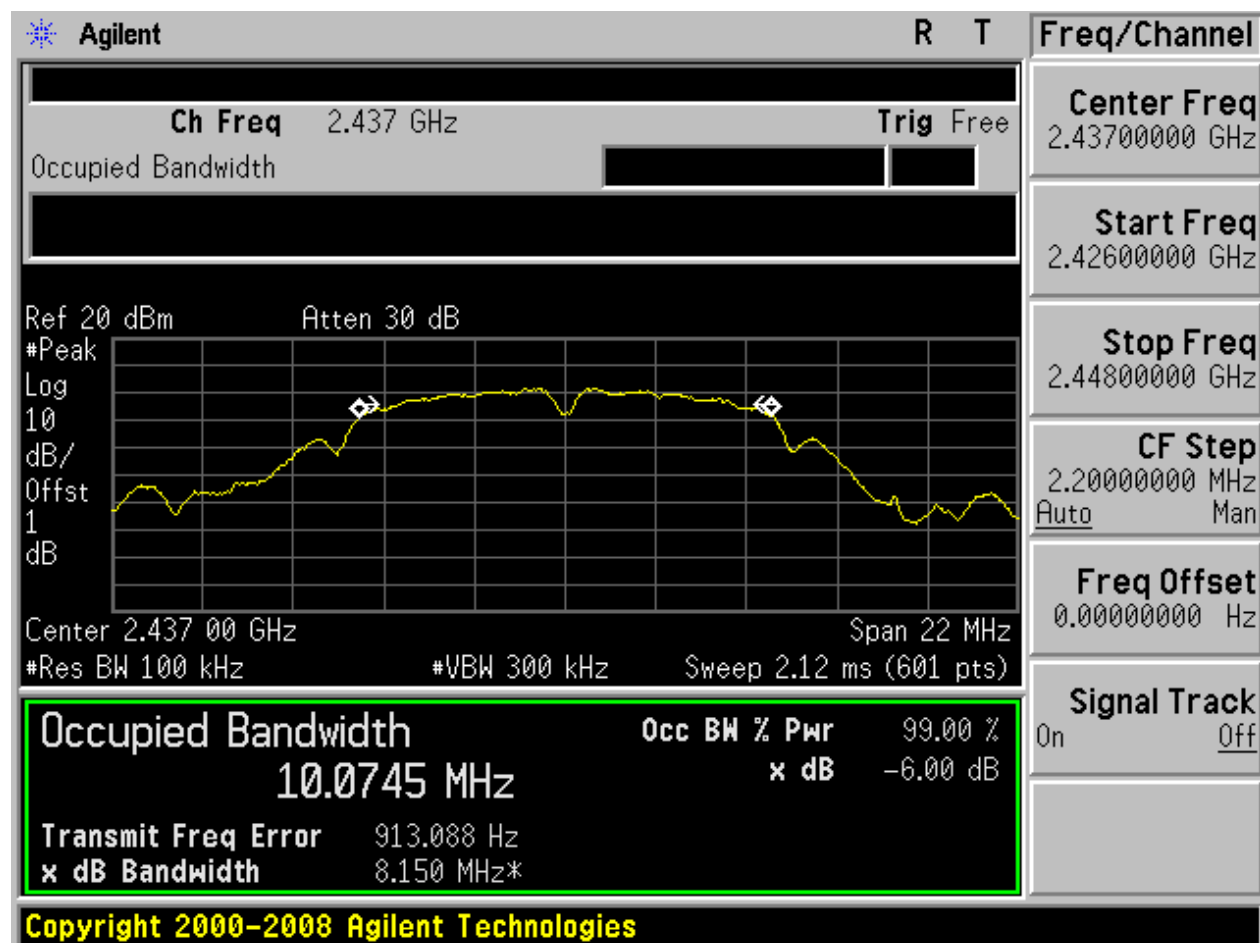


## 2.2 11B\_L@Ant 2

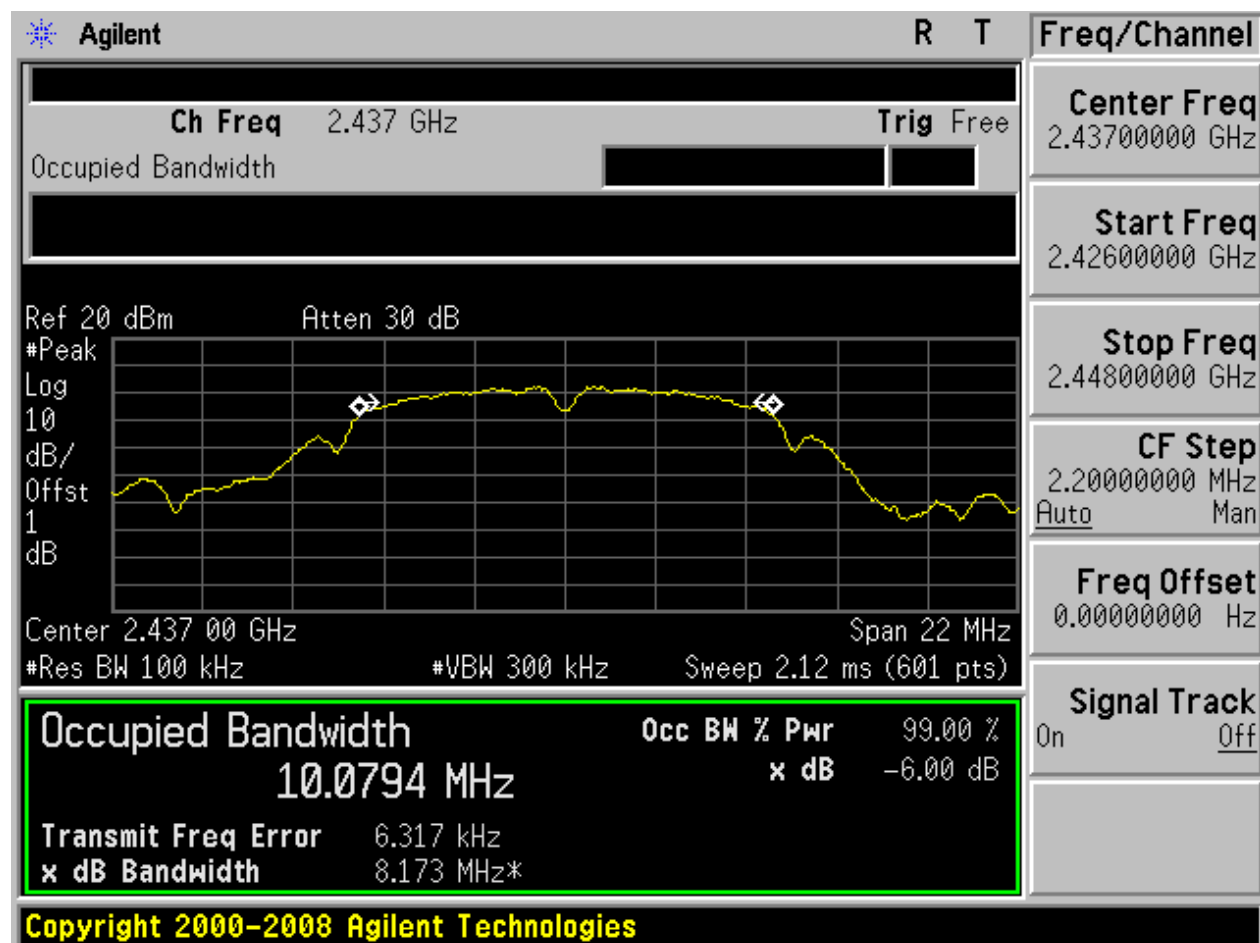




## 2.3 11B\_M@Ant 1

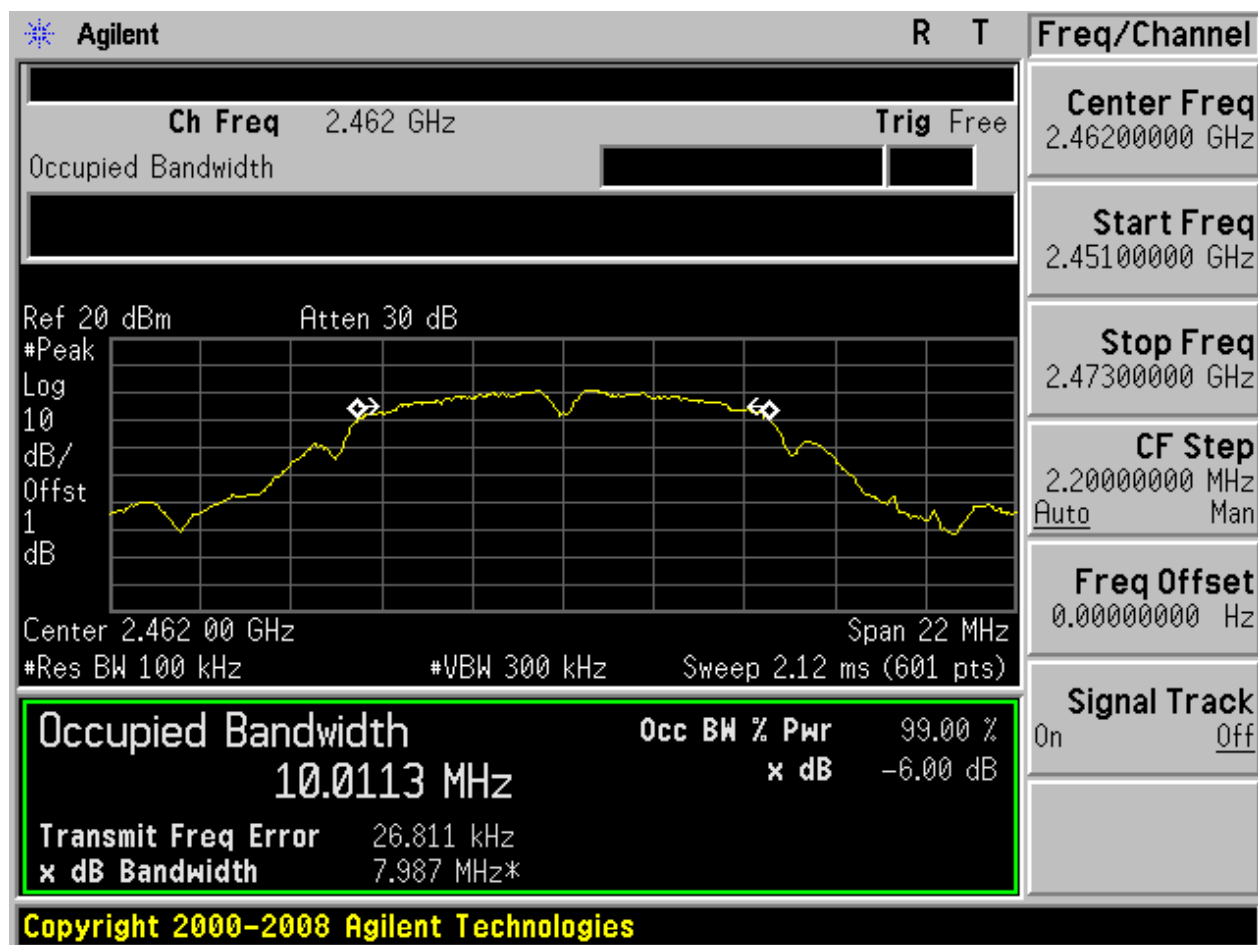


## 2.4 11B\_M@Ant 2



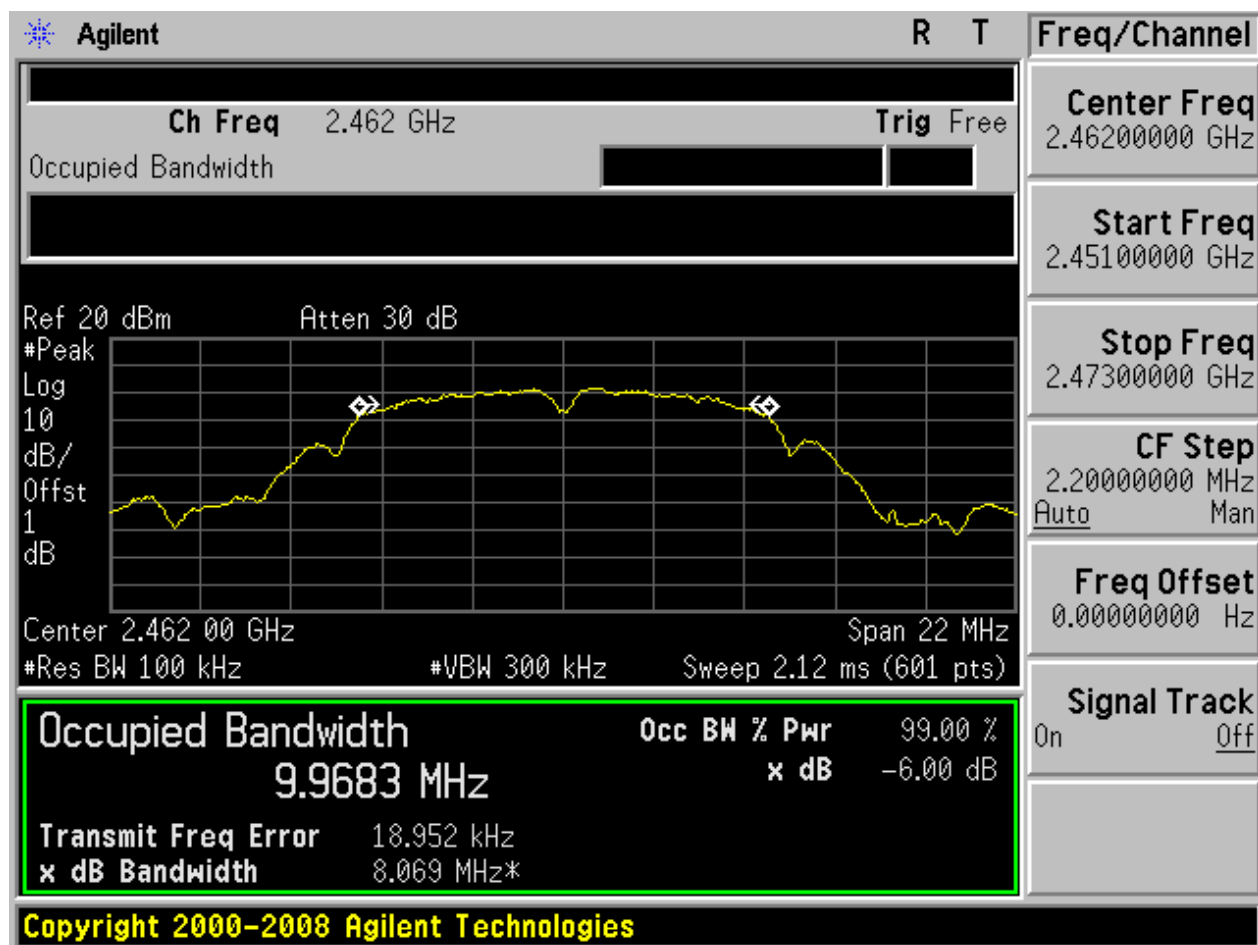


## 2.5 11B\_H@Ant 1

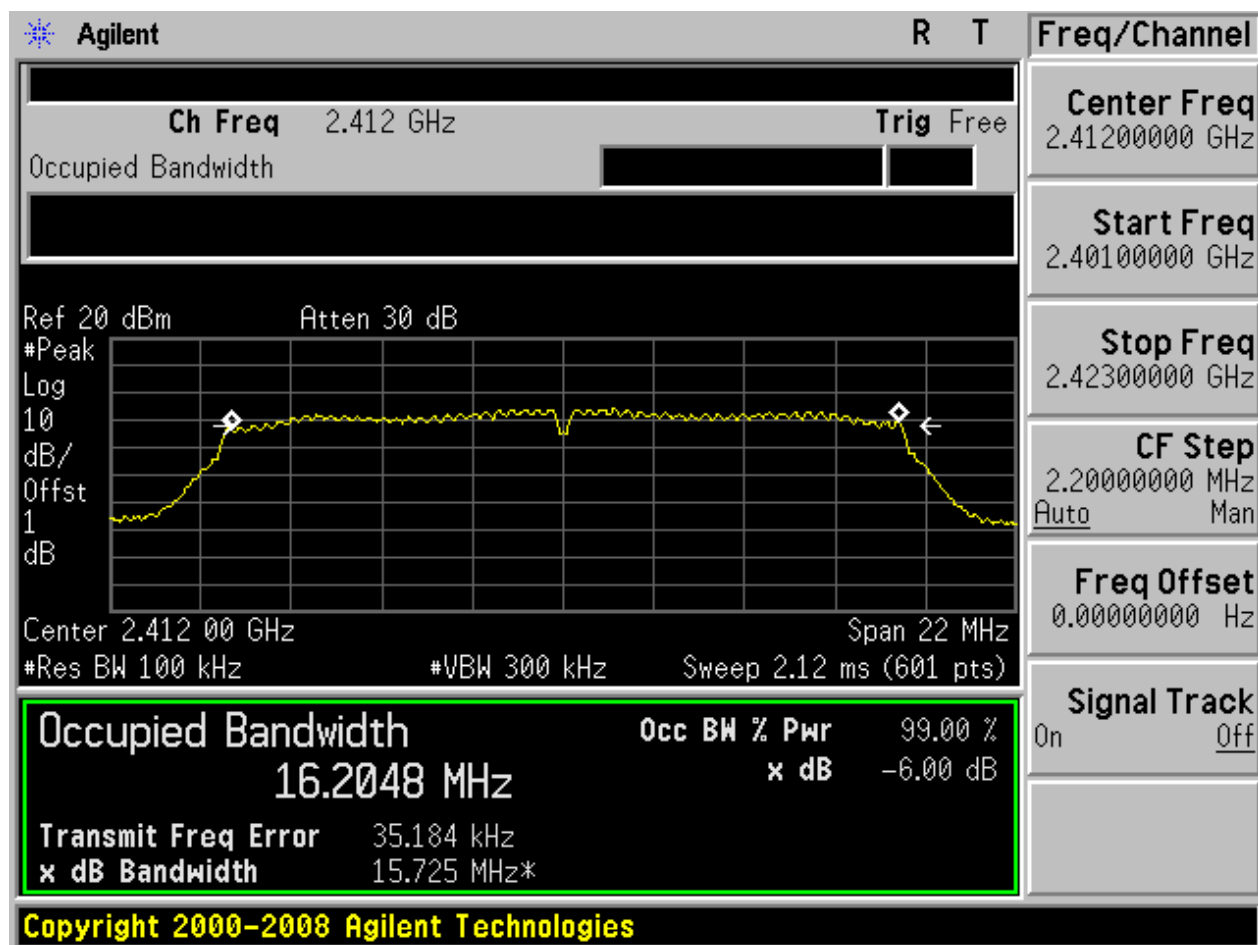




## 2.6 11B\_H@Ant 2

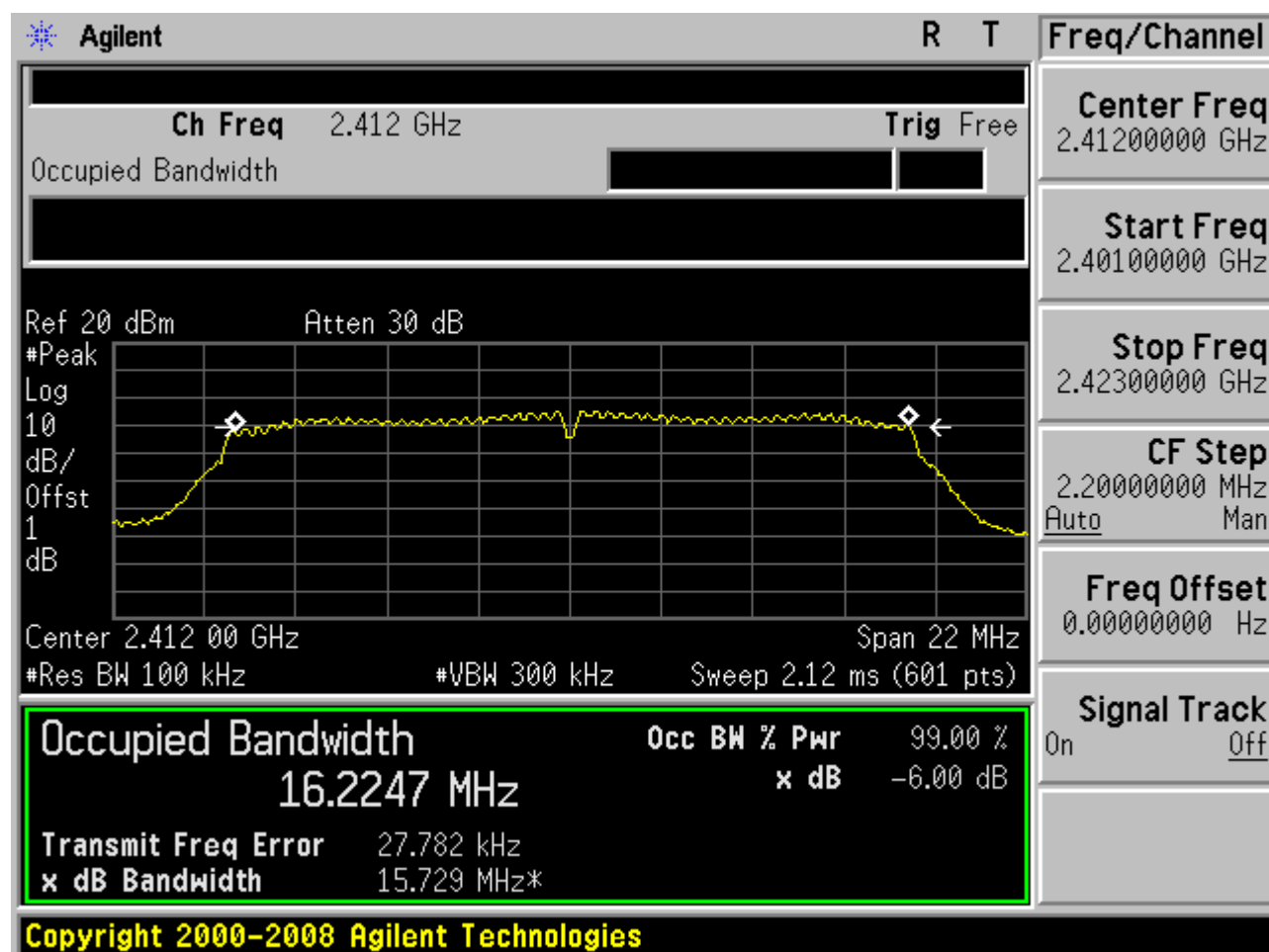


## 2.7 11G\_L@Ant 1



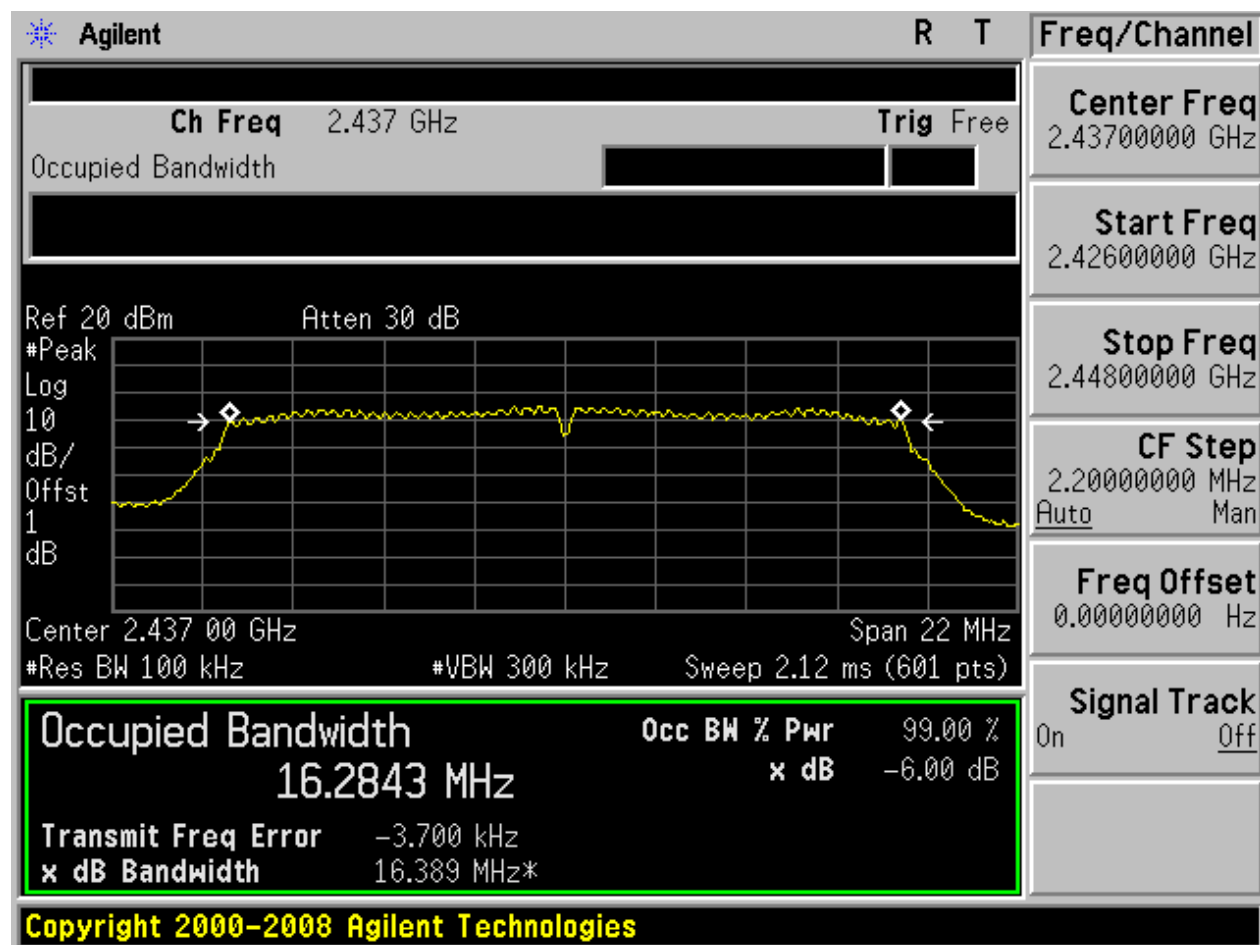


## 2.8 11G\_L@Ant 2



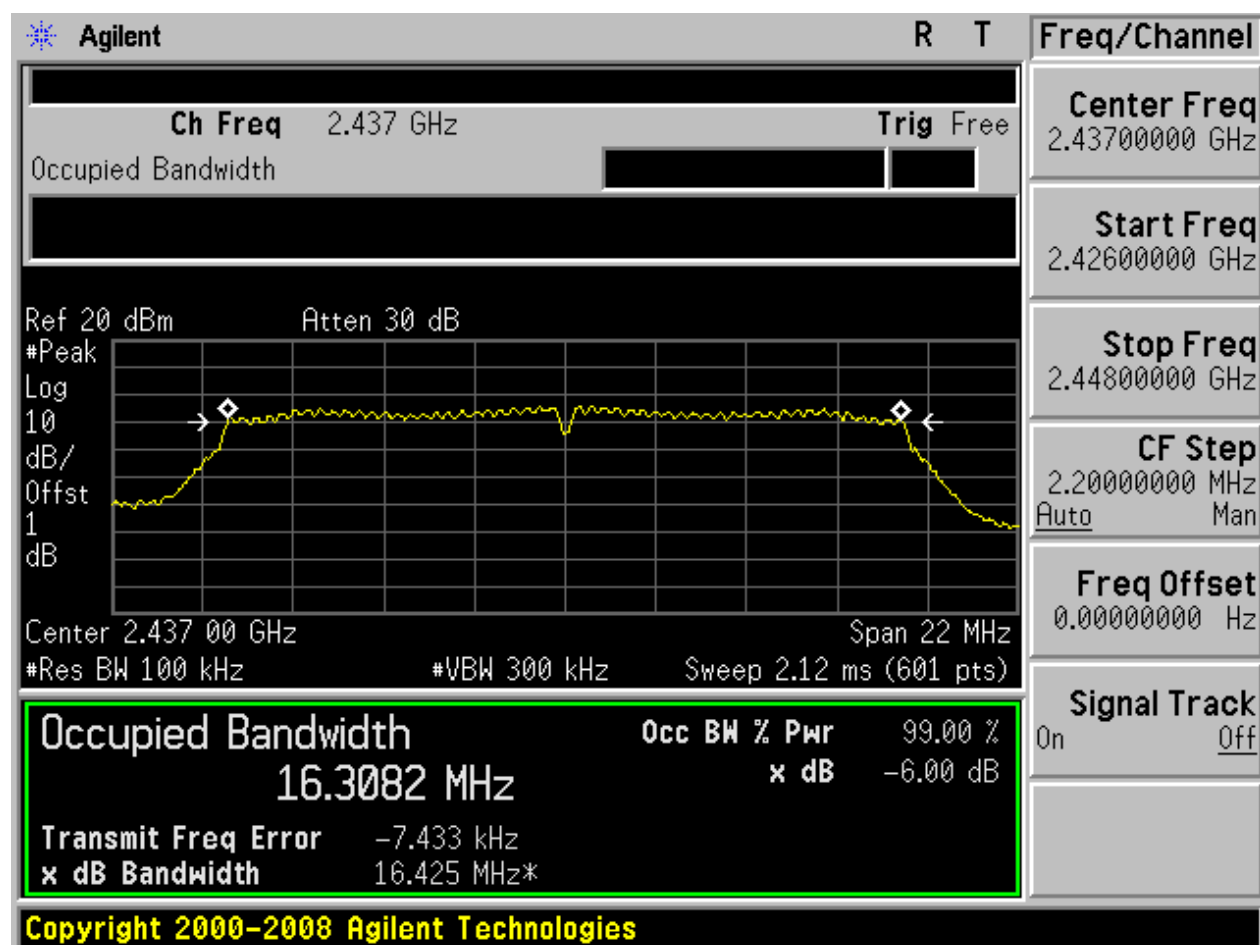


## 2.9 11G\_M@Ant 1



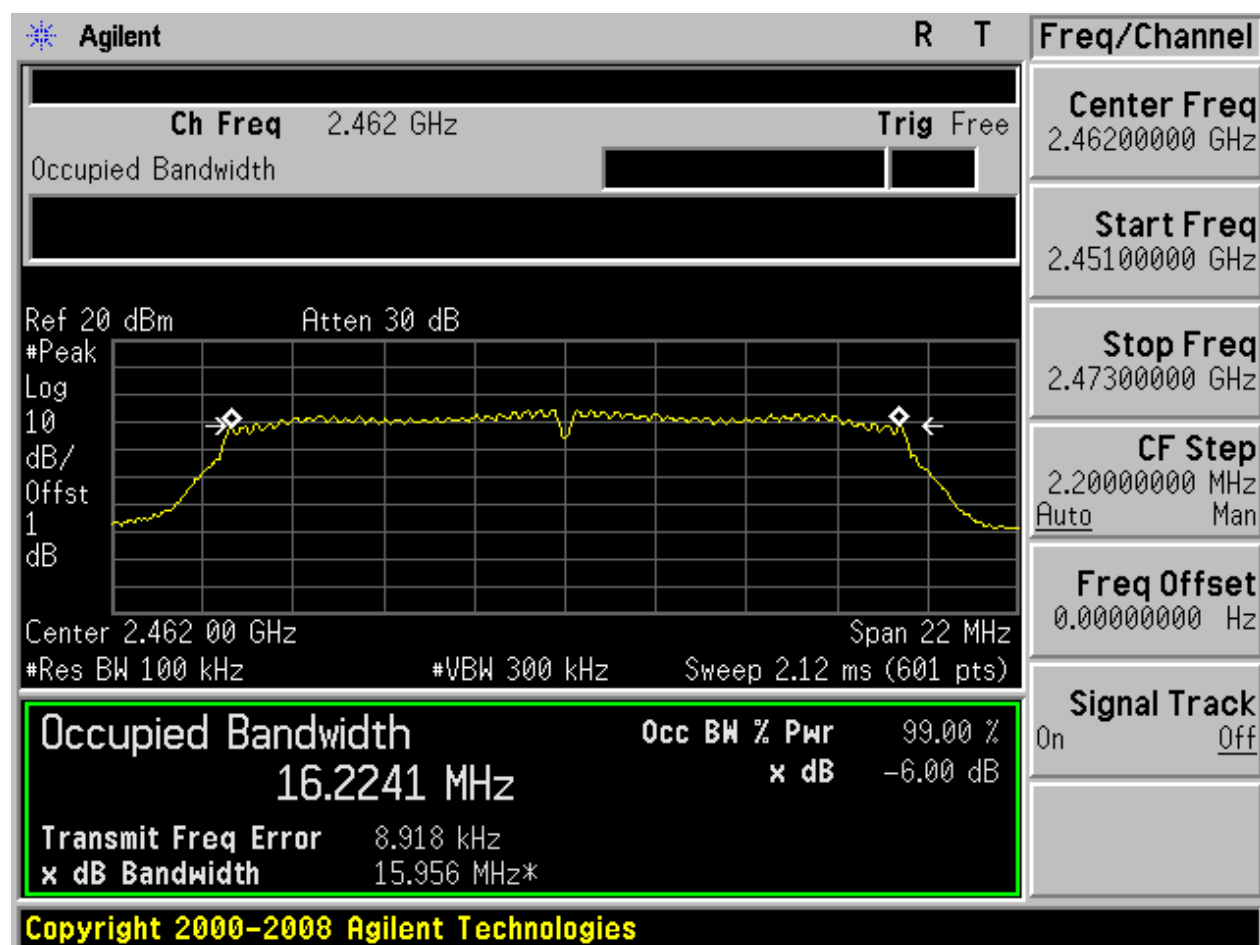


## 2.10 11G\_M@Ant 2



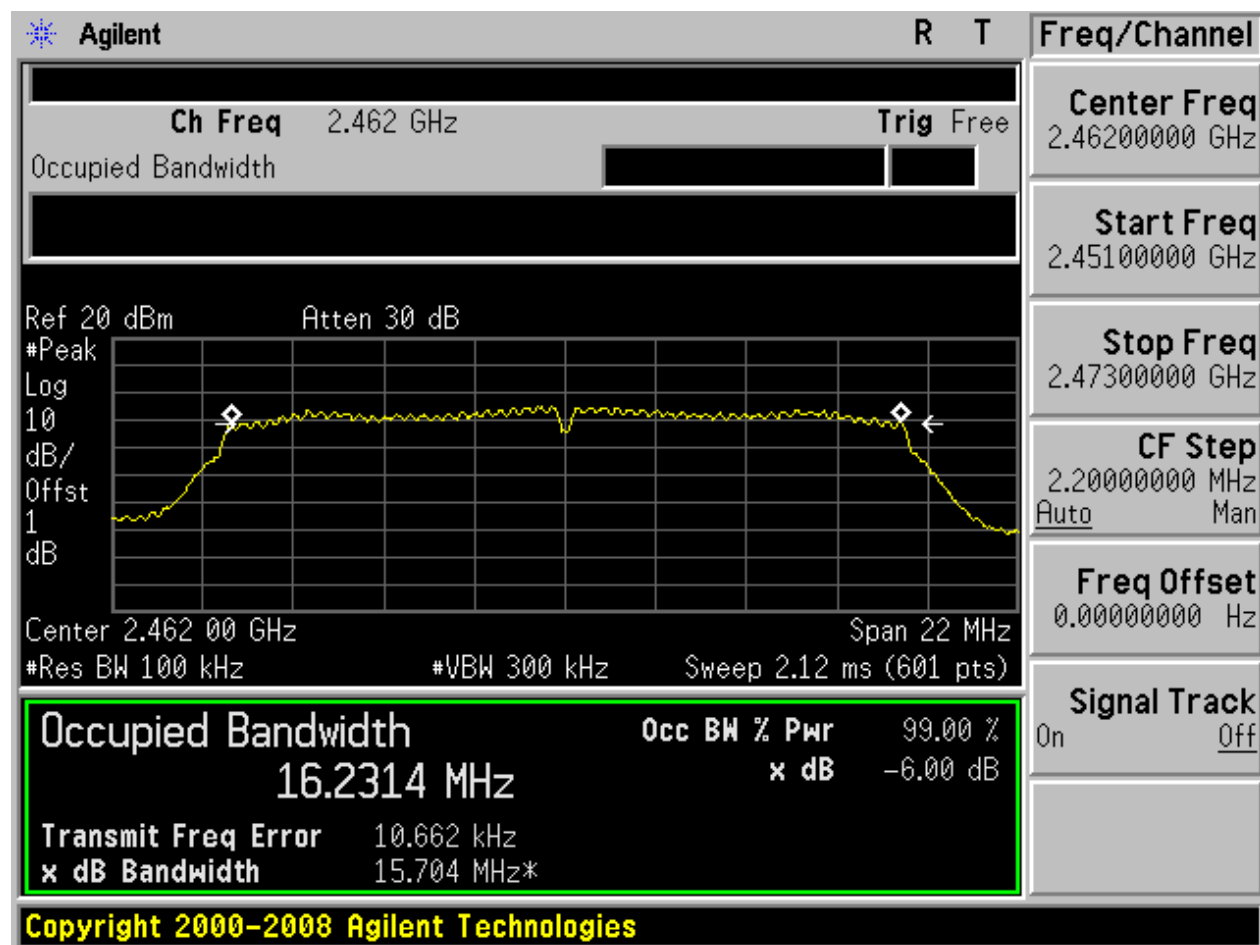


## 2.11 11G\_H@Ant 1

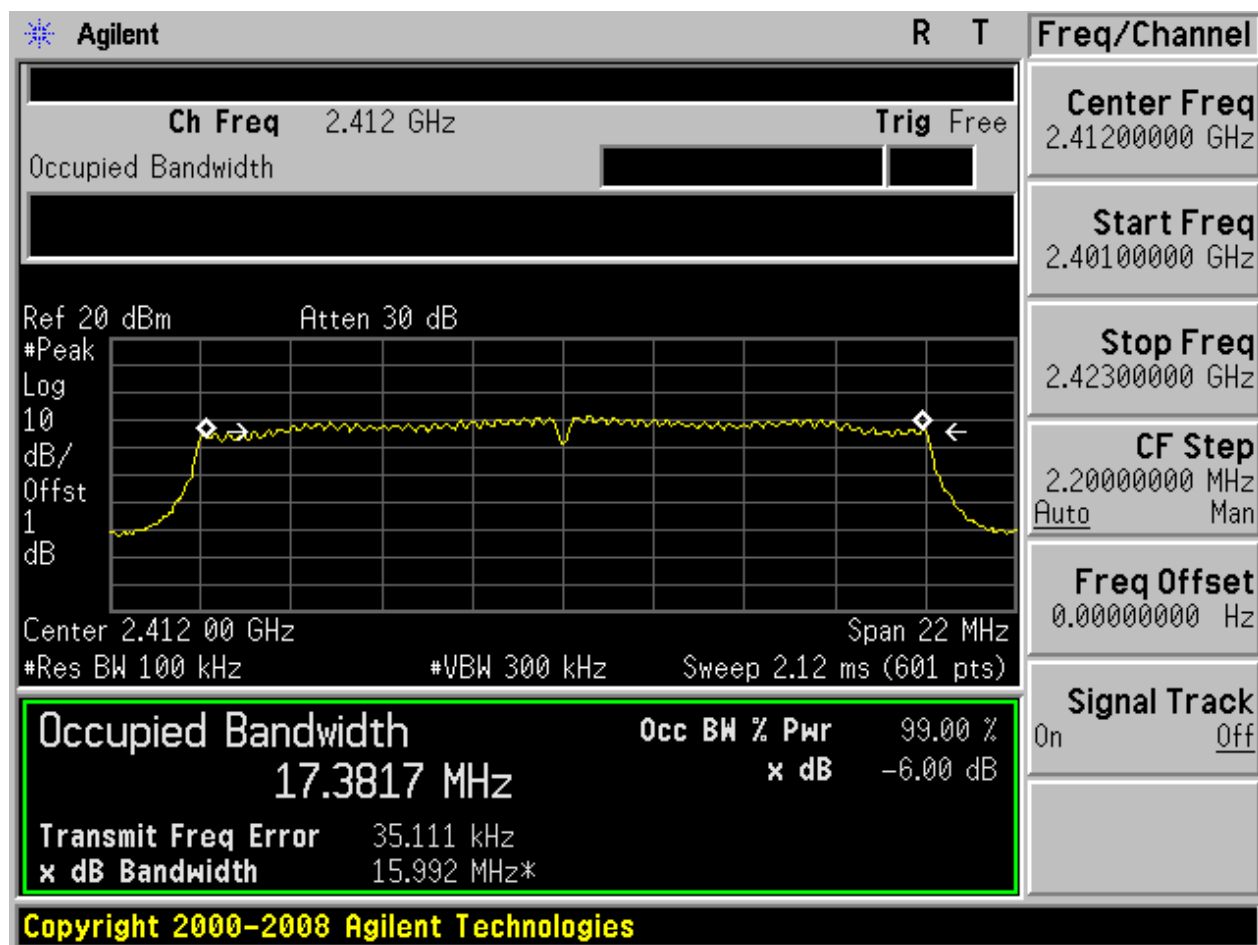




## 2.12 11G\_H@Ant 2

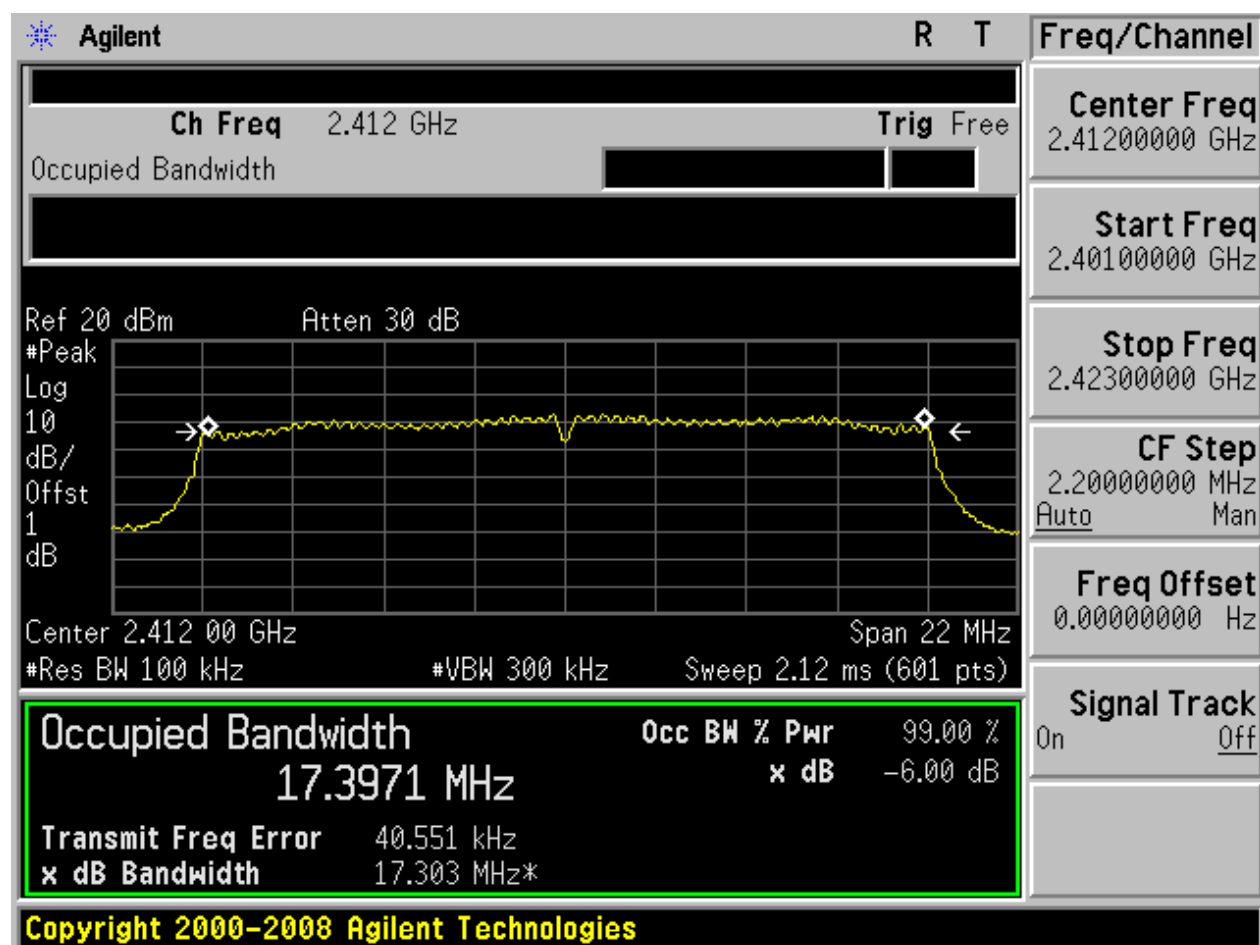


## 2.13 11N20\_L@Ant 1



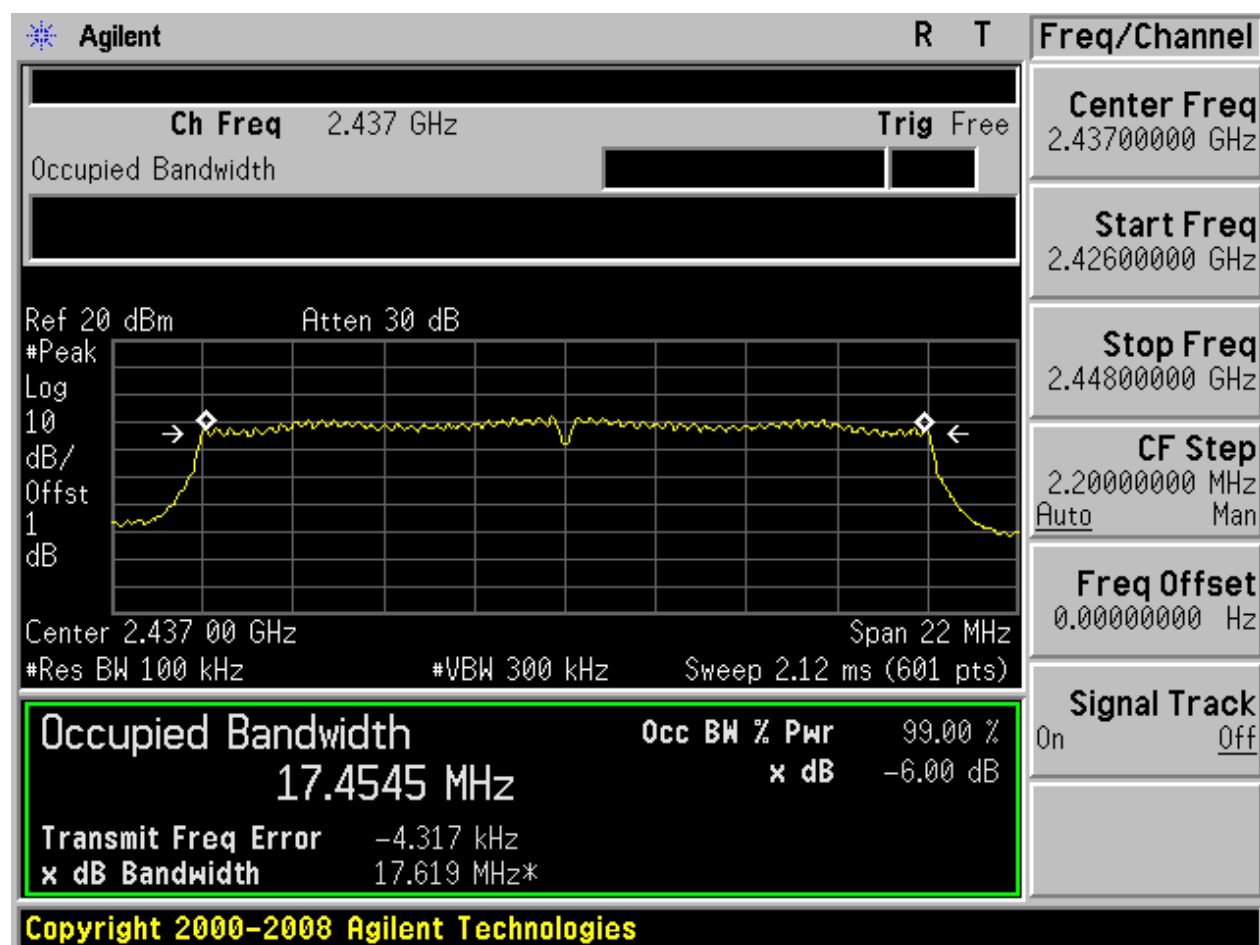


## 2.14 11N20\_L@Ant 2



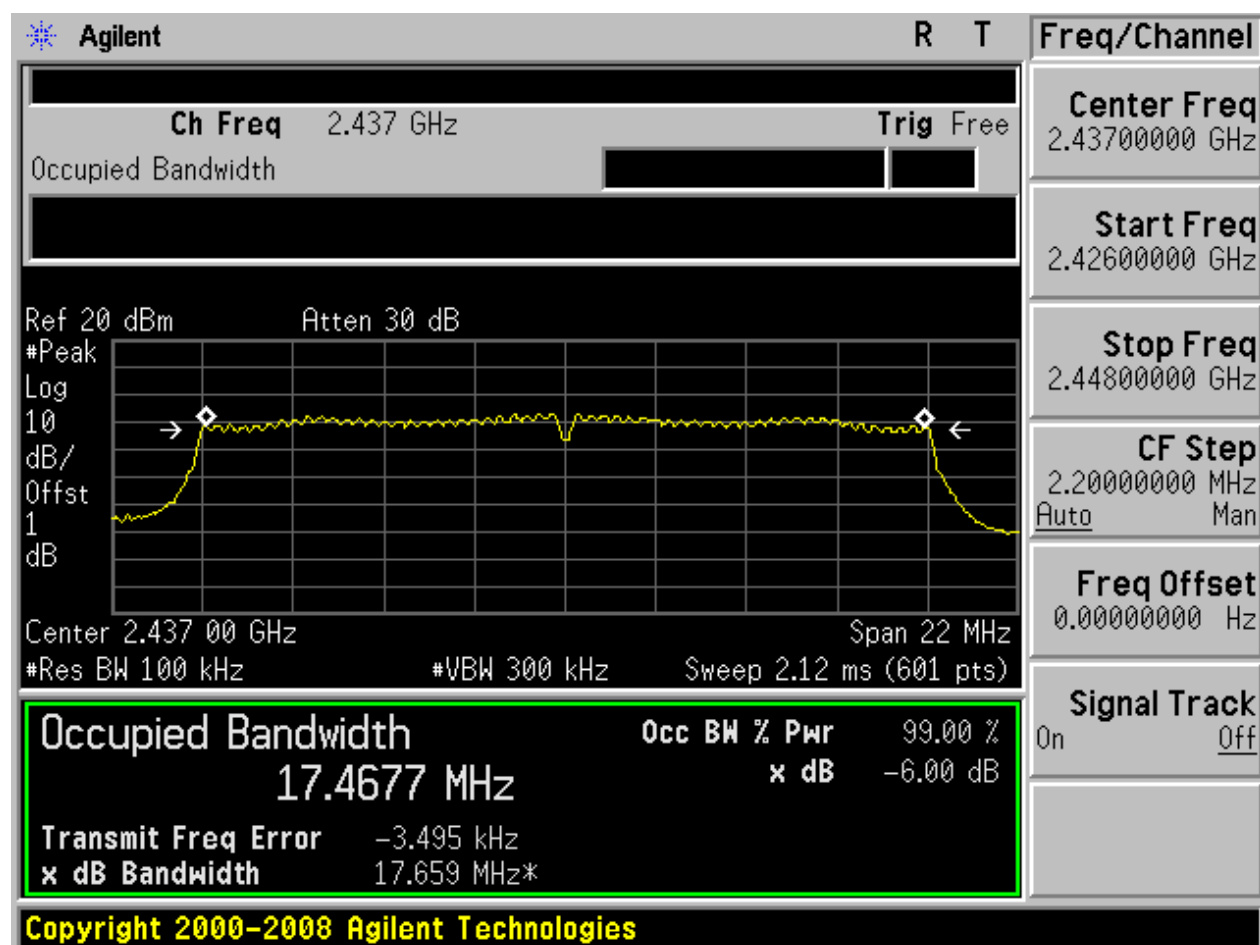


## 2.15 11N20\_M@Ant 1

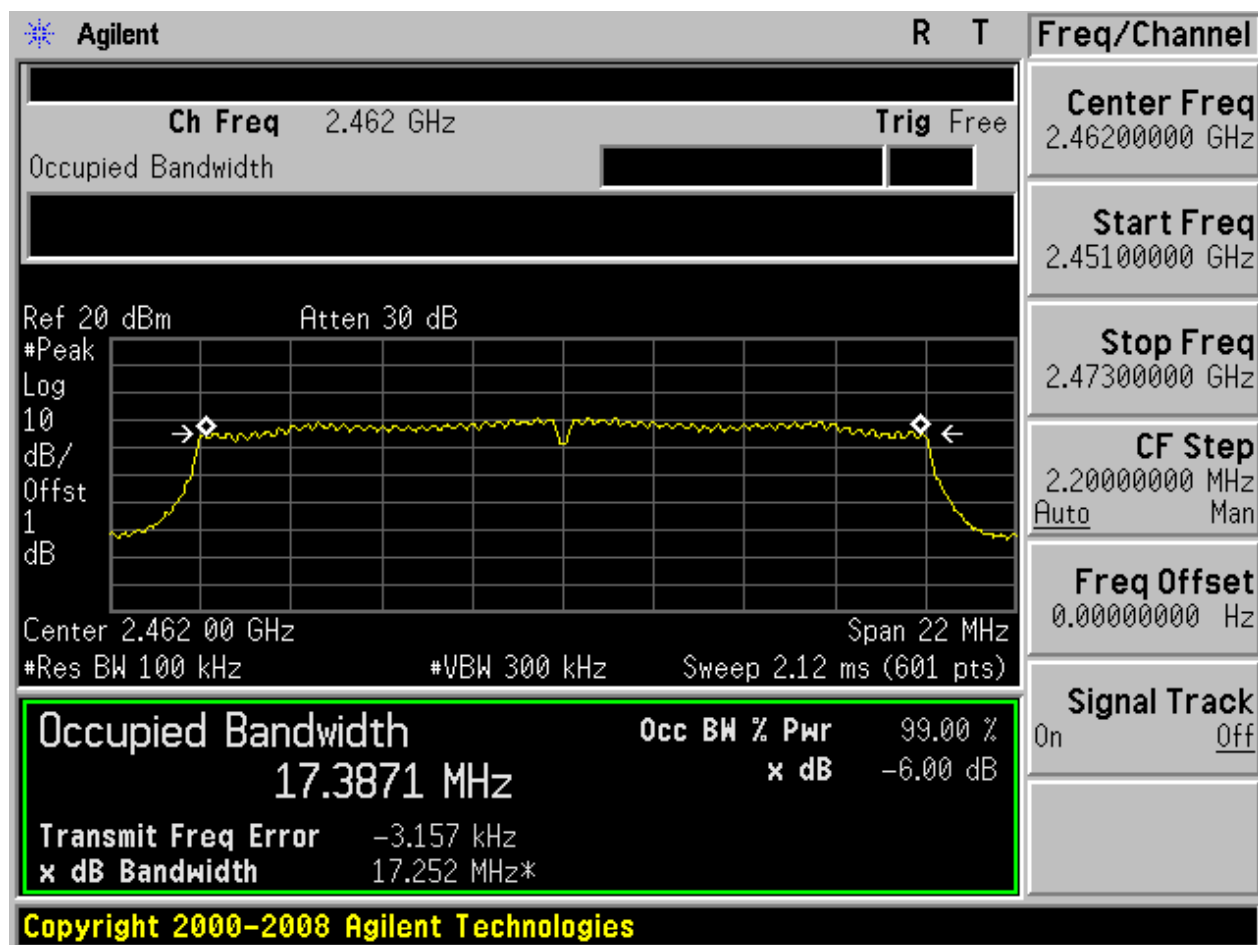




## 2.16 11N20\_M@Ant 2

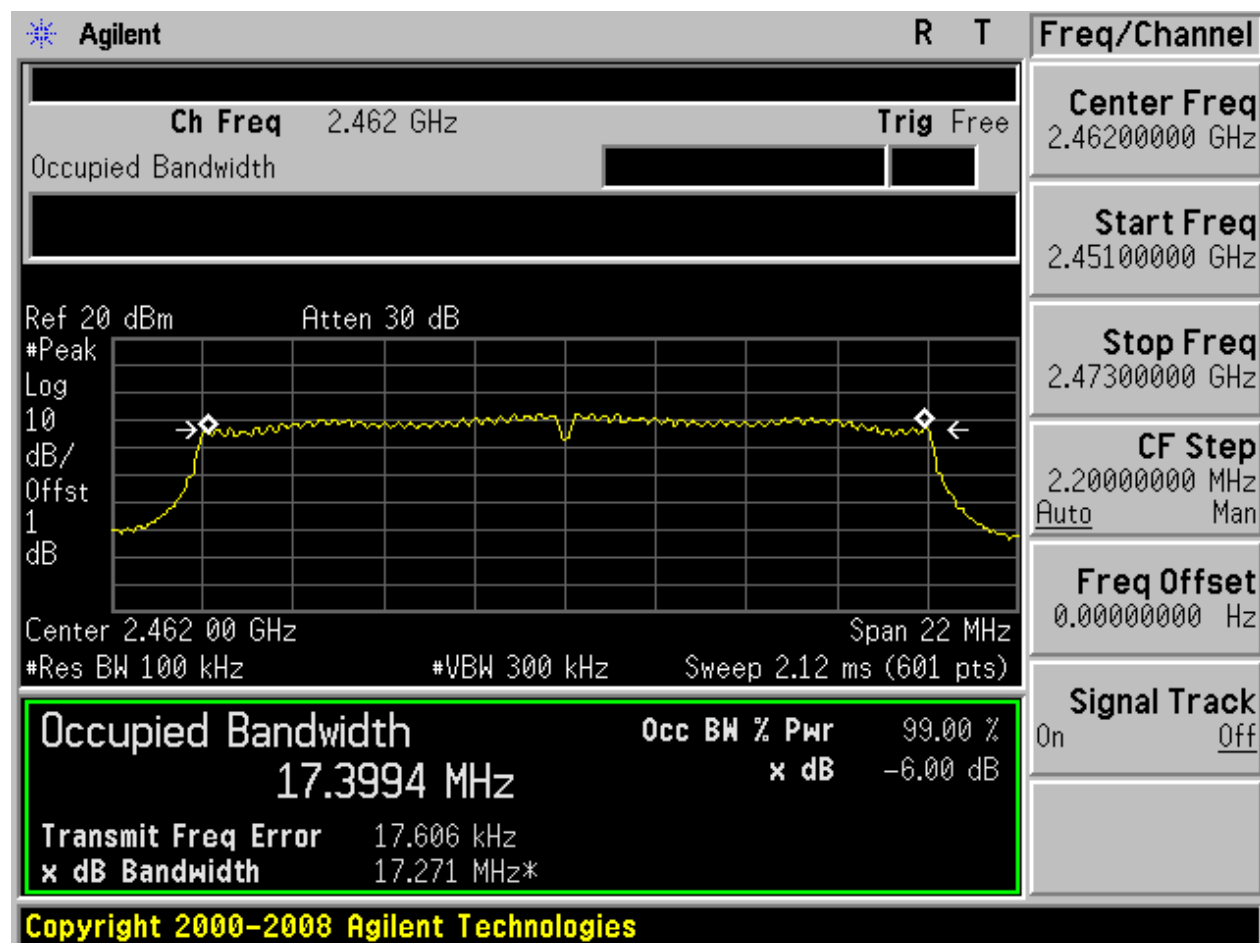


## 2.17 11N20\_H@Ant 1



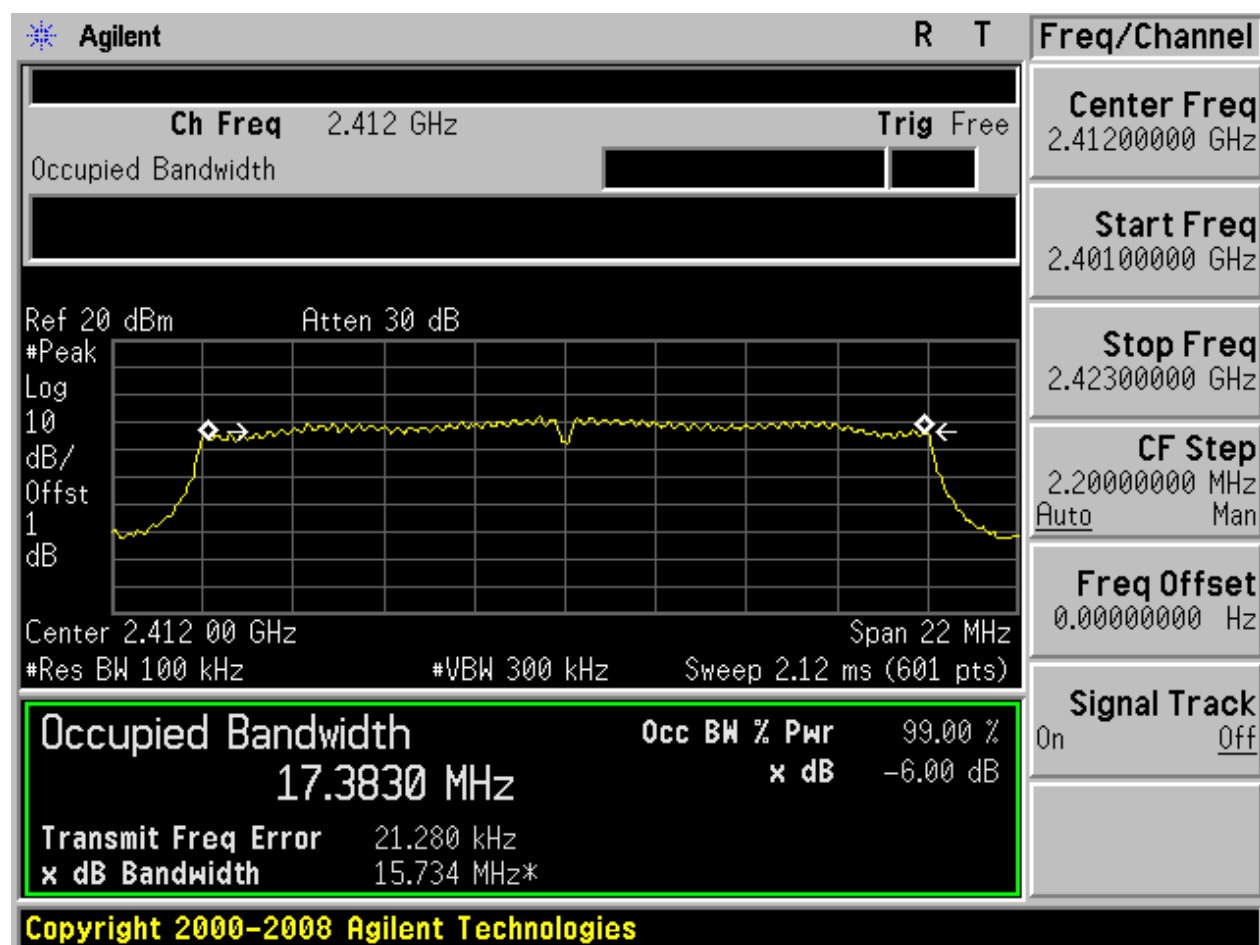


## 2.18 11N20\_H@Ant 2



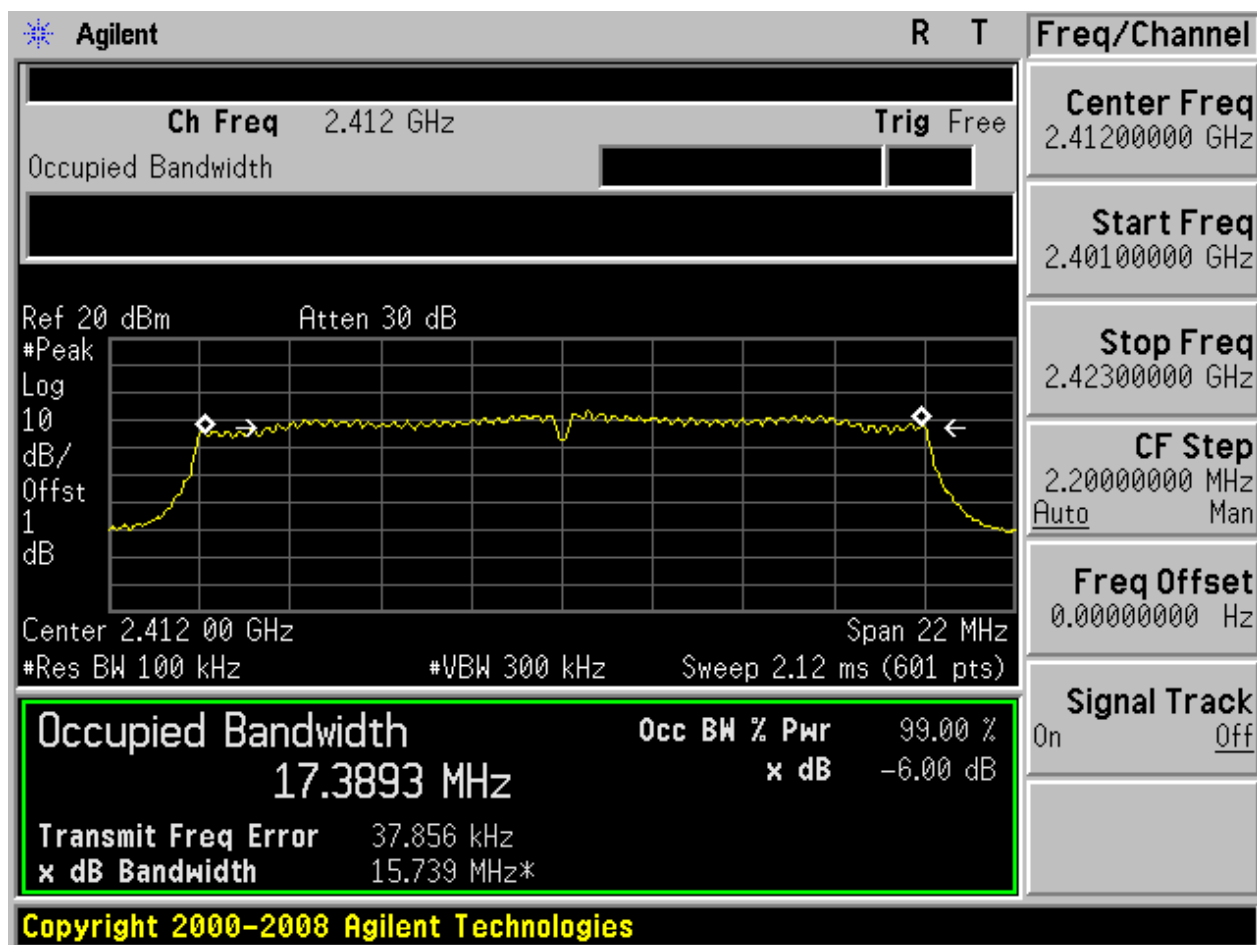


## 2.13 11N20m\_L@Ant 1

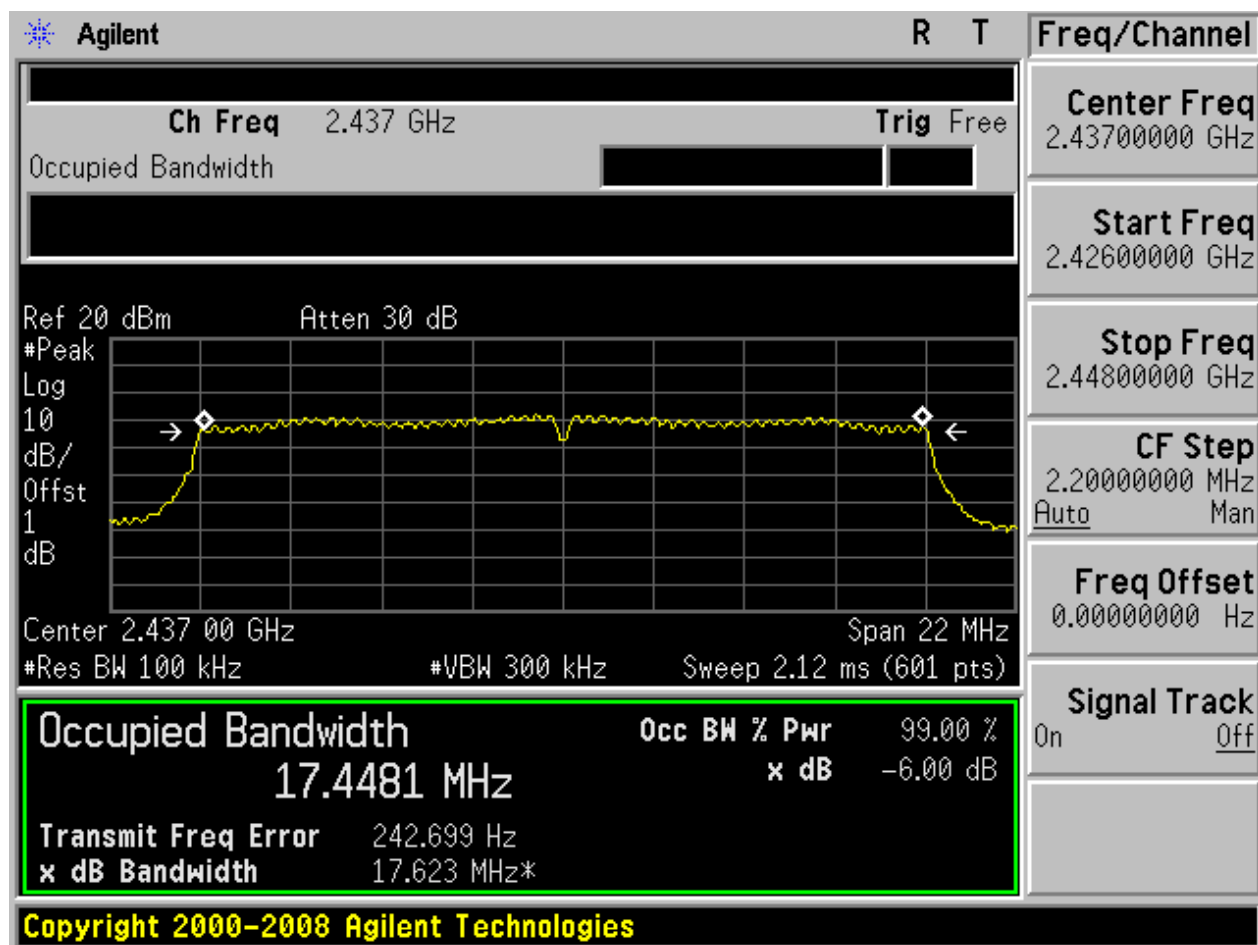




## 2.14 11N20m\_L@Ant 2

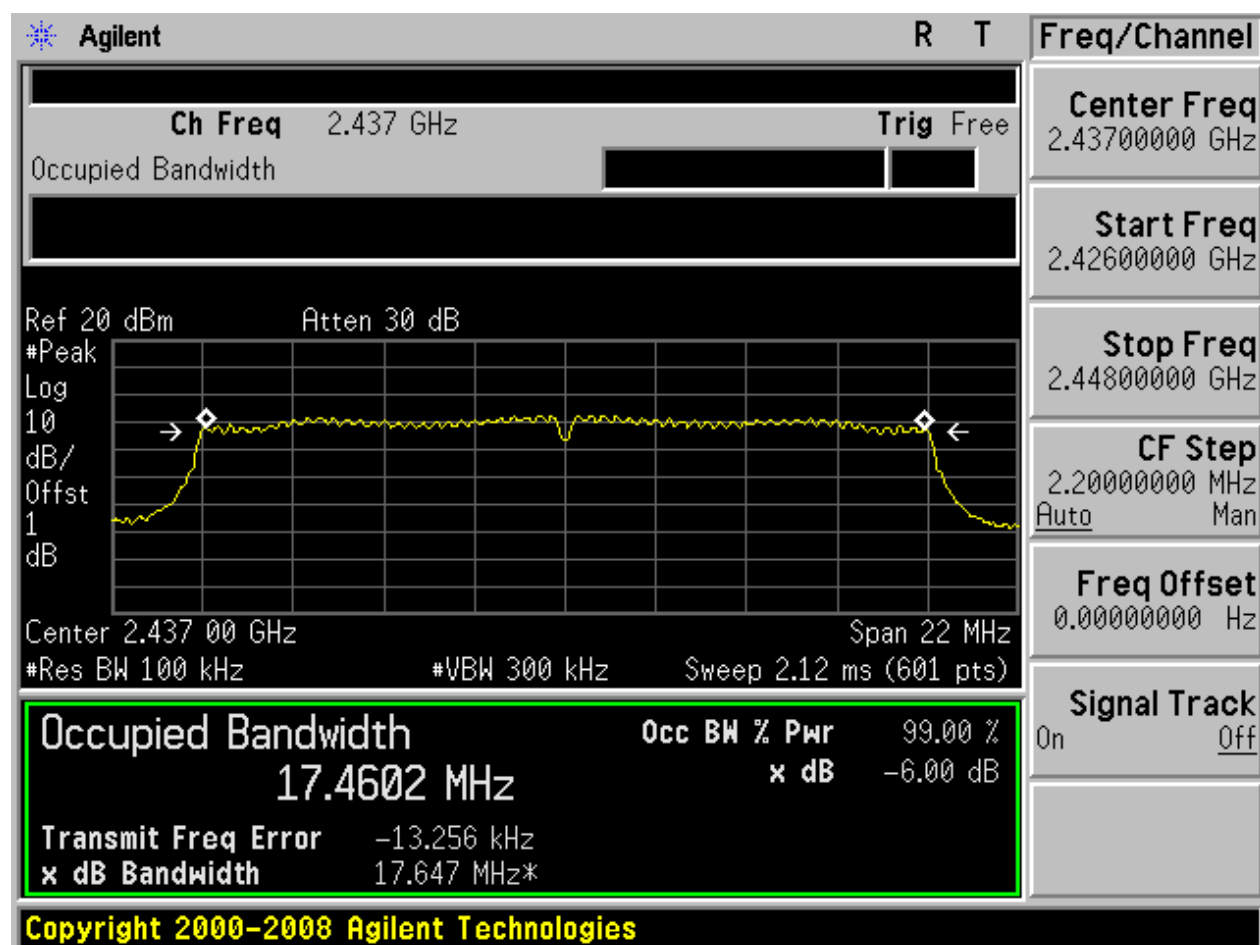


## 2.15 11N20m\_M@Ant 1



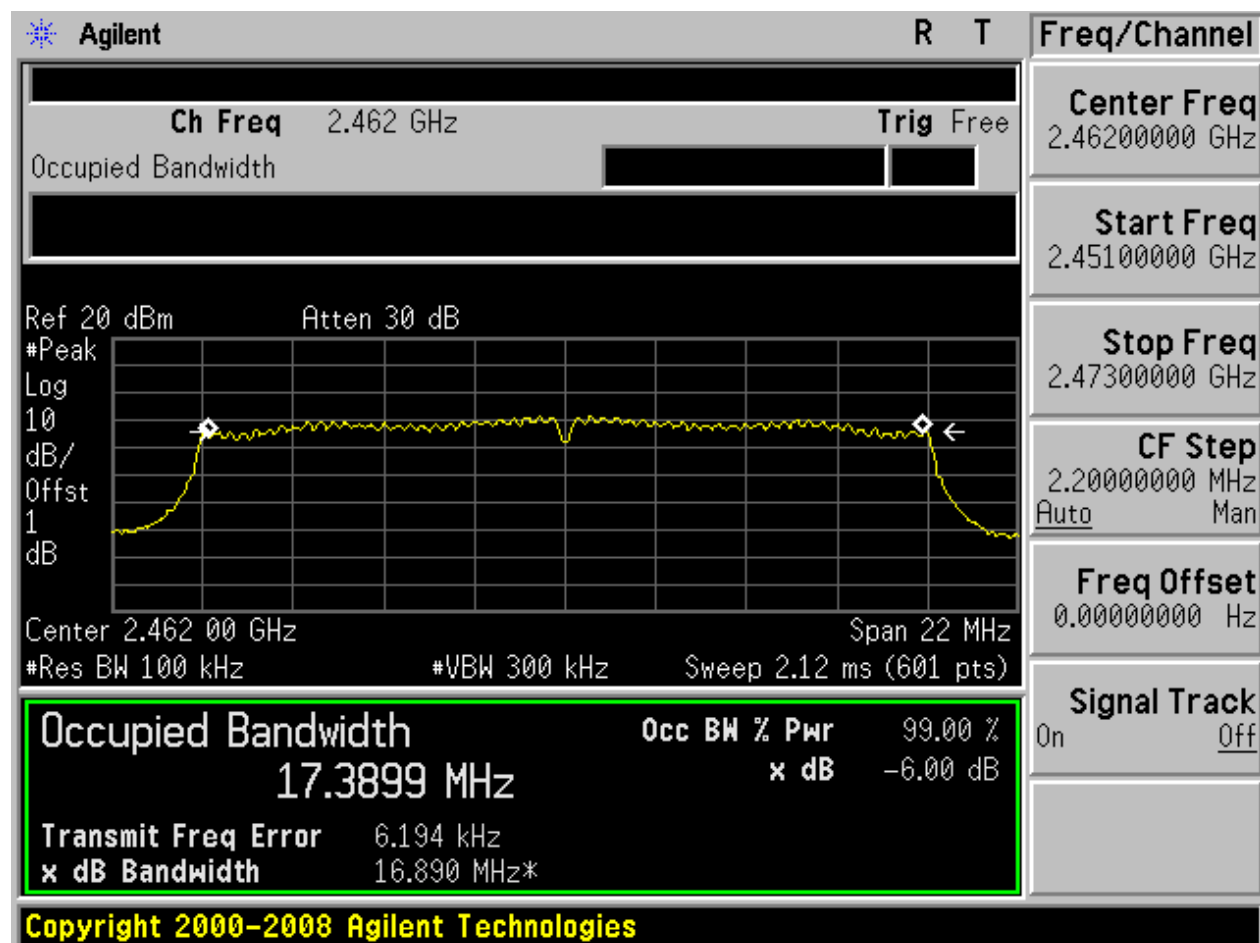


## 2.16 11N20m\_M@Ant 2

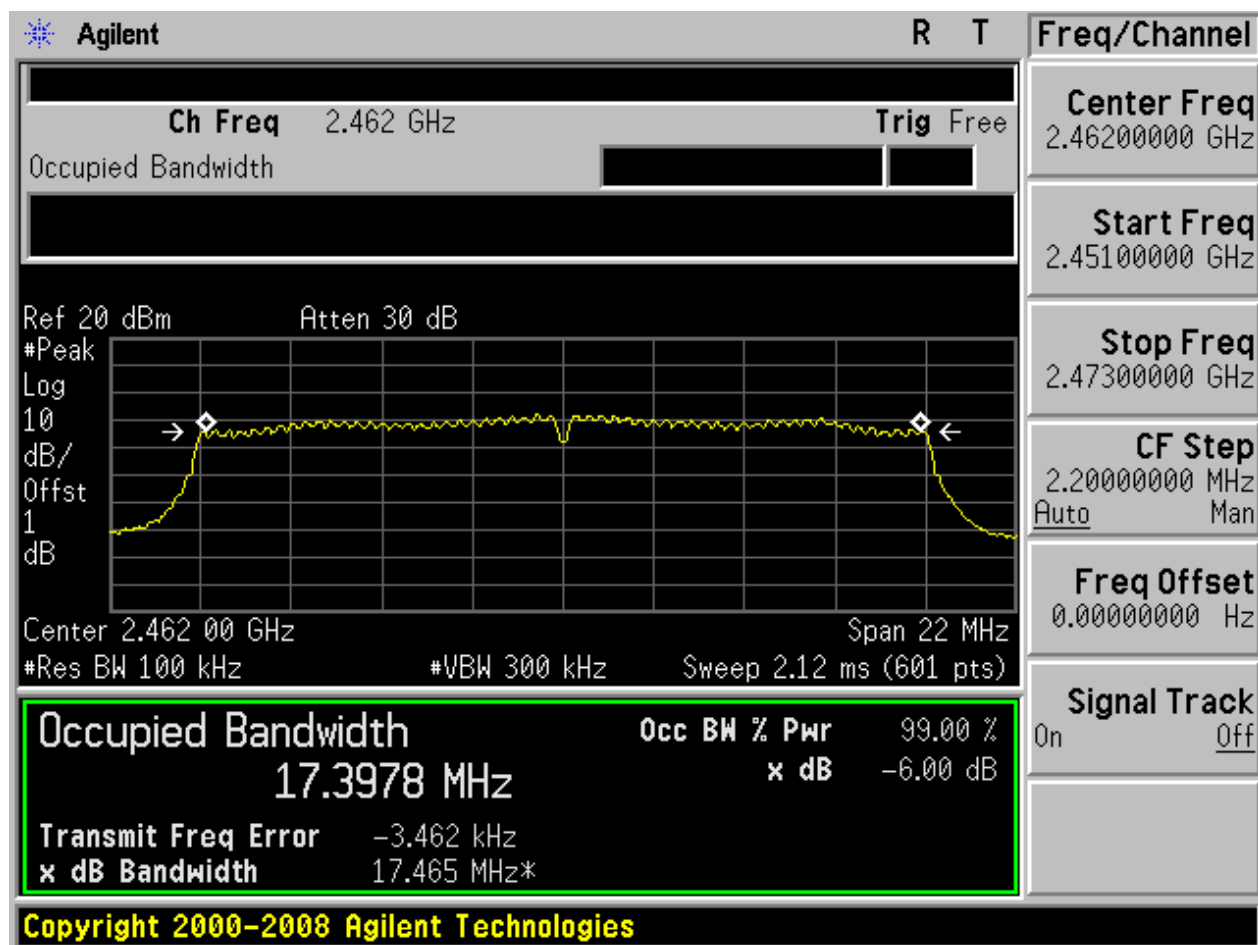




## 2.17 11N20m\_H@Ant 1

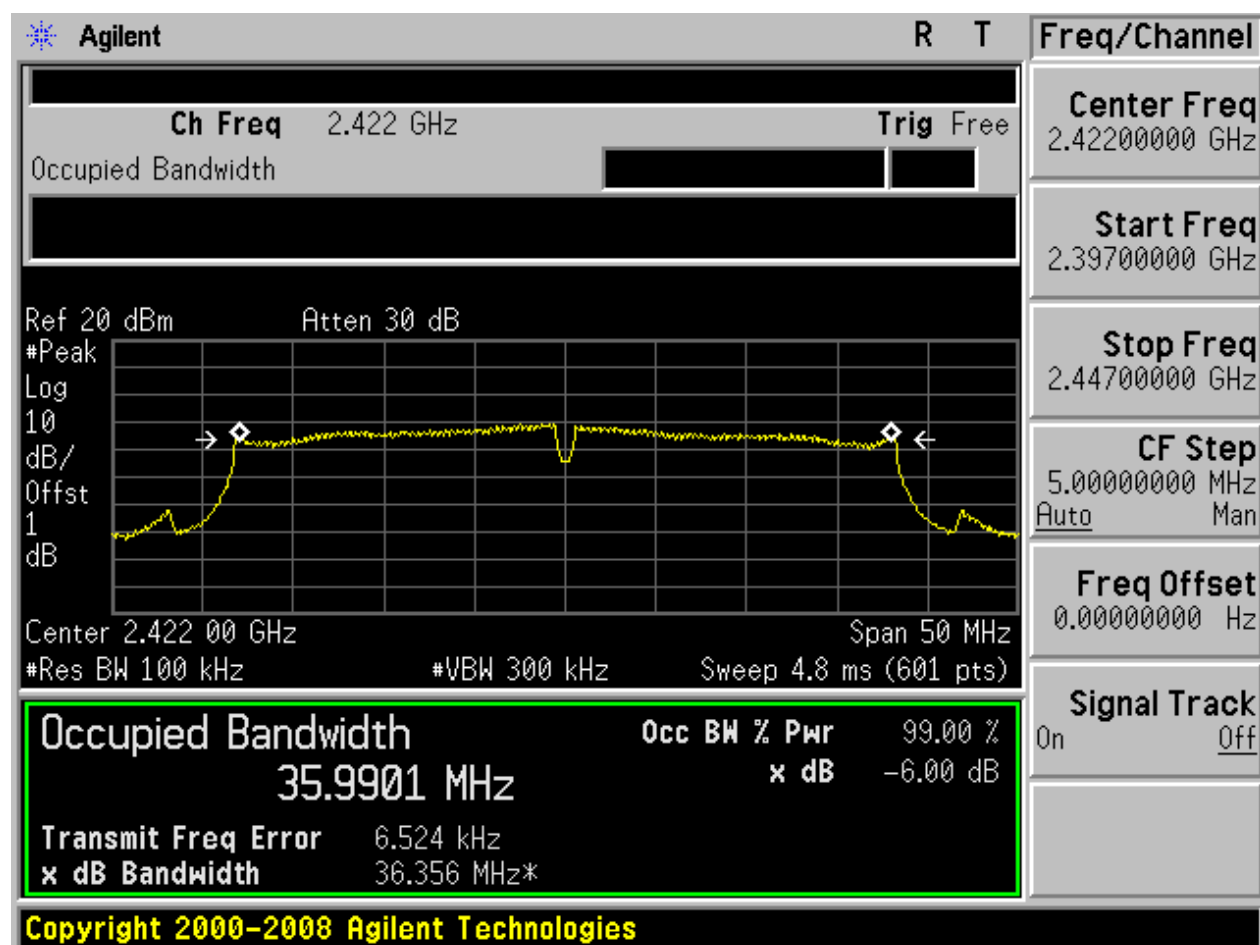


## 2.18 11N20m\_H@Ant 2

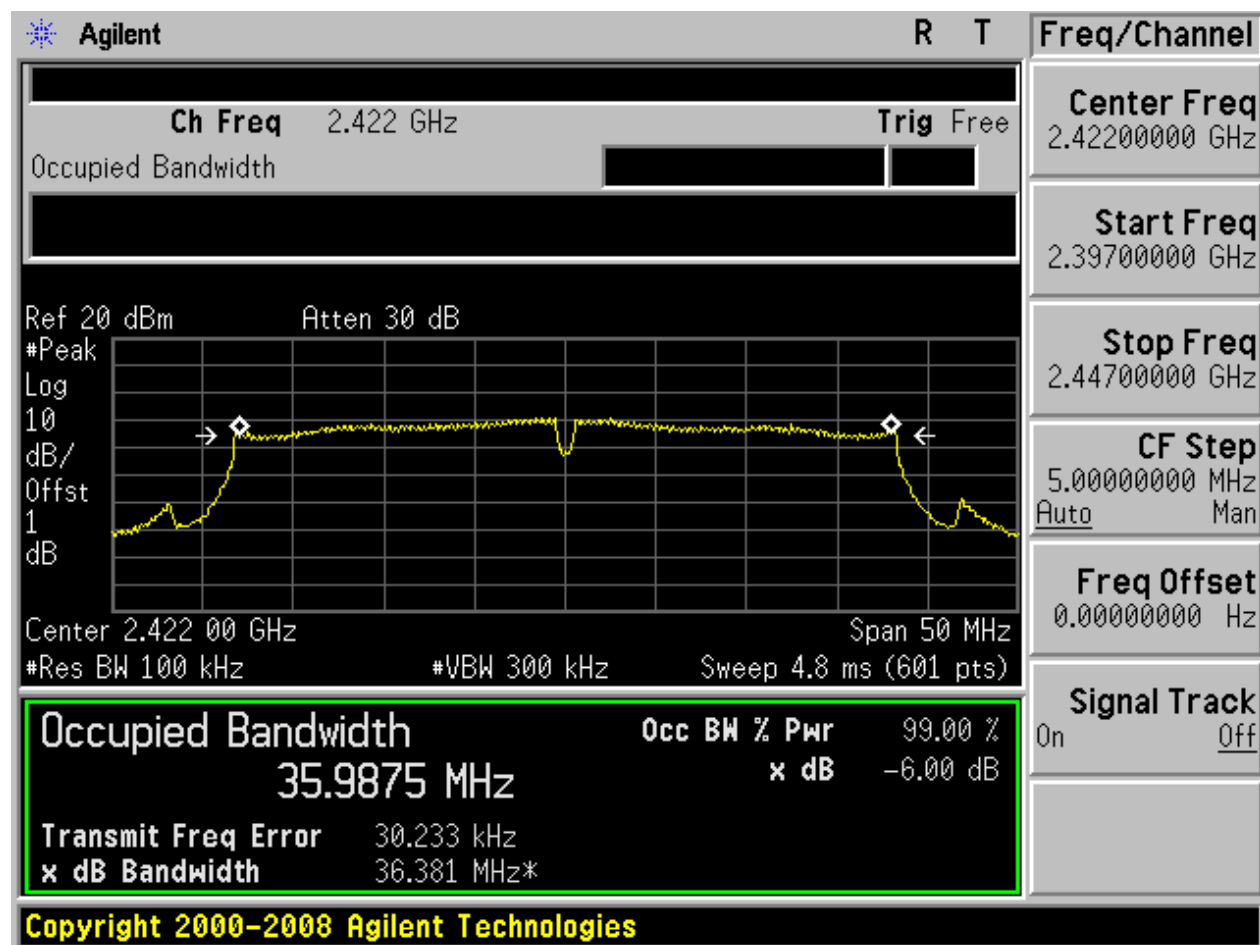




## 2.19 11N40\_L@Ant 1

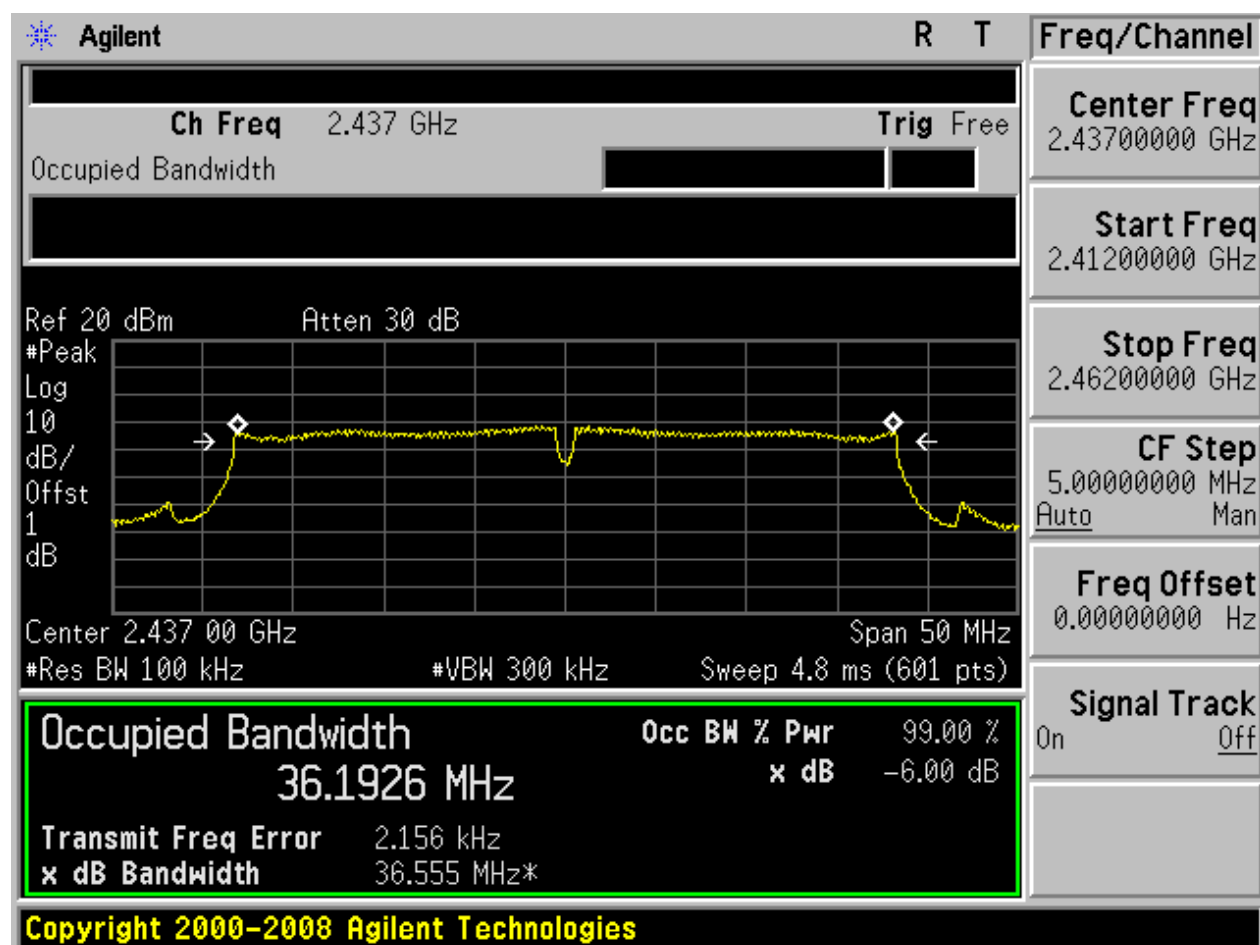


## 2.20 11N40\_L@Ant 2



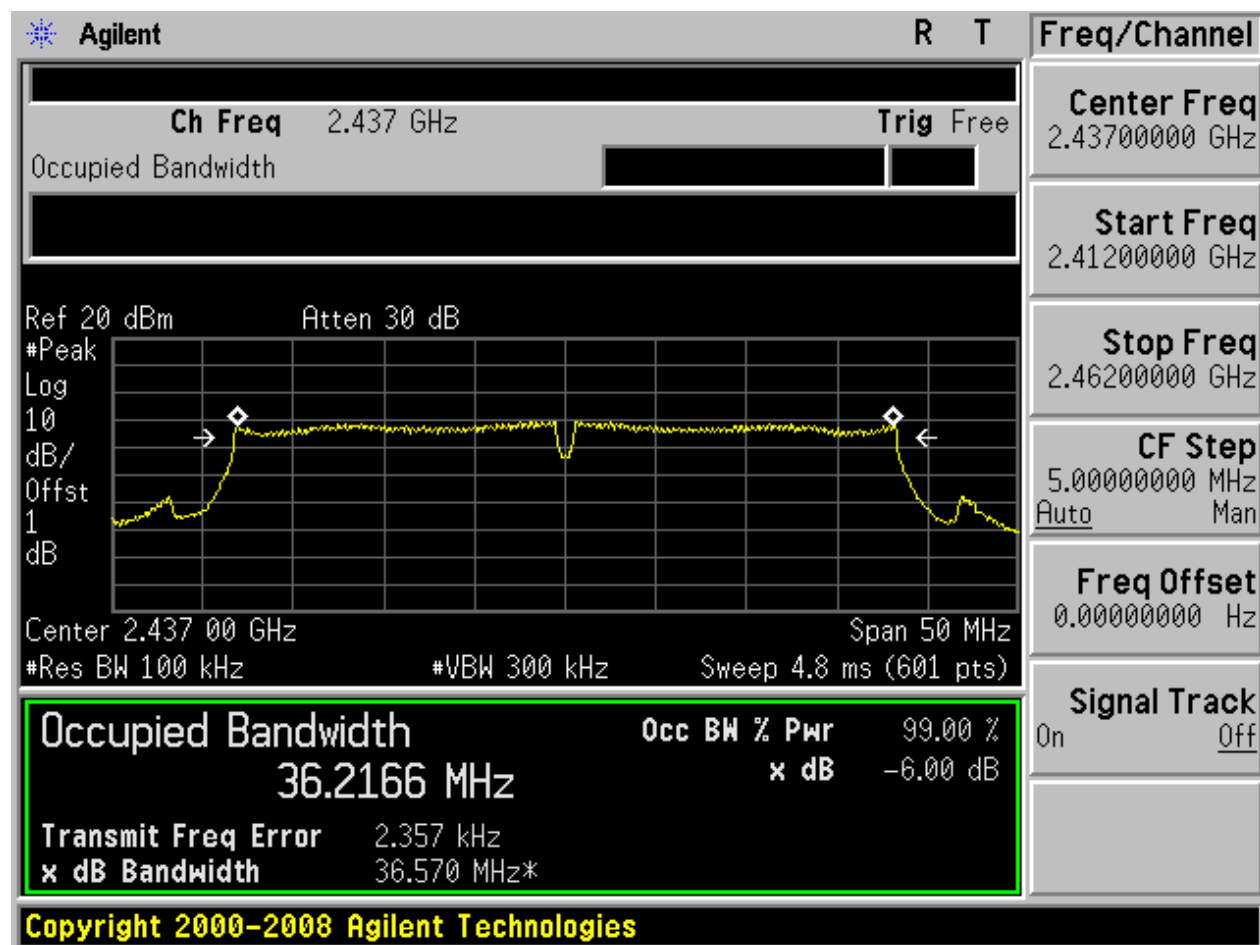


## 2.21 11N40\_M@Ant 1

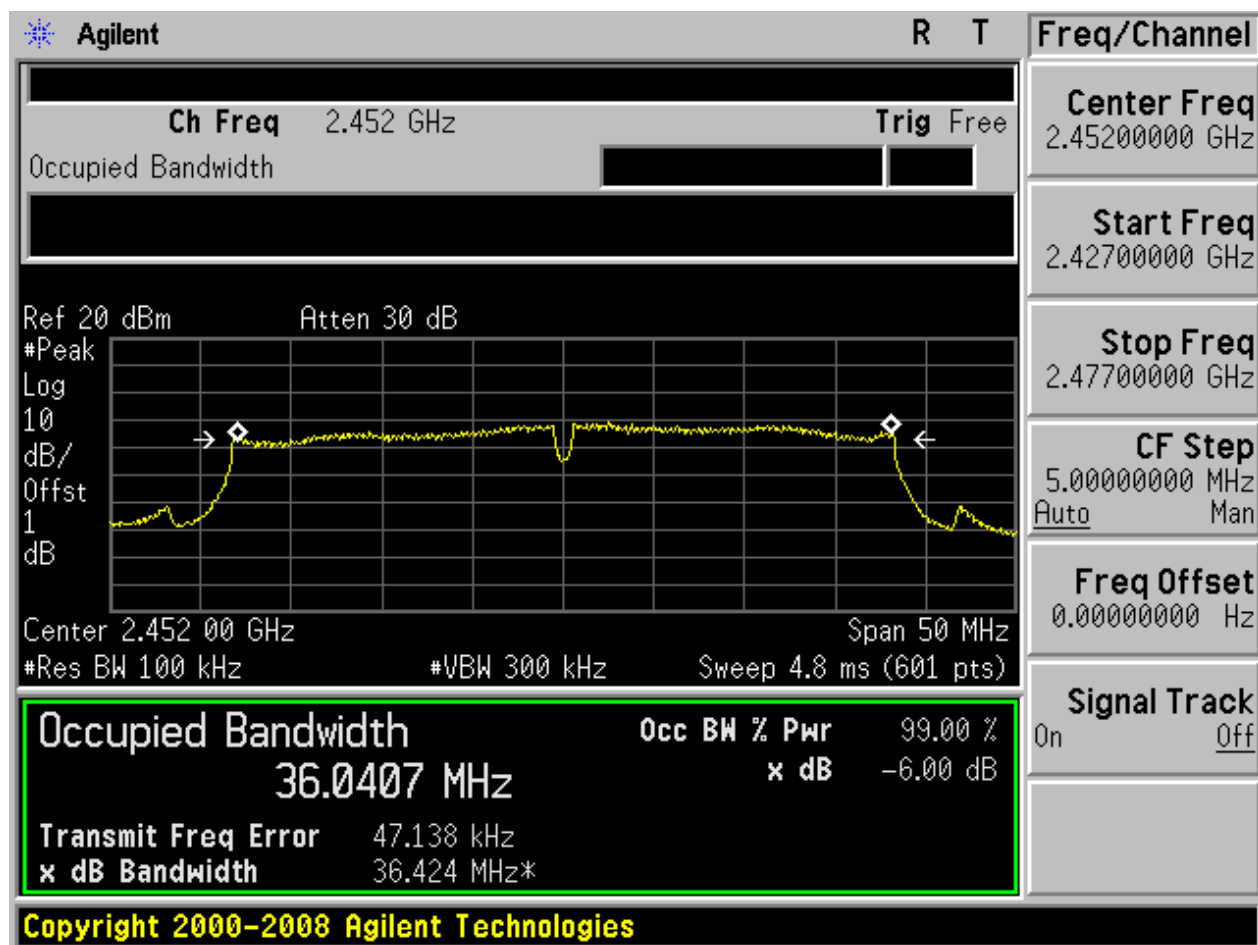




## 2.22 11N40\_M@Ant 2

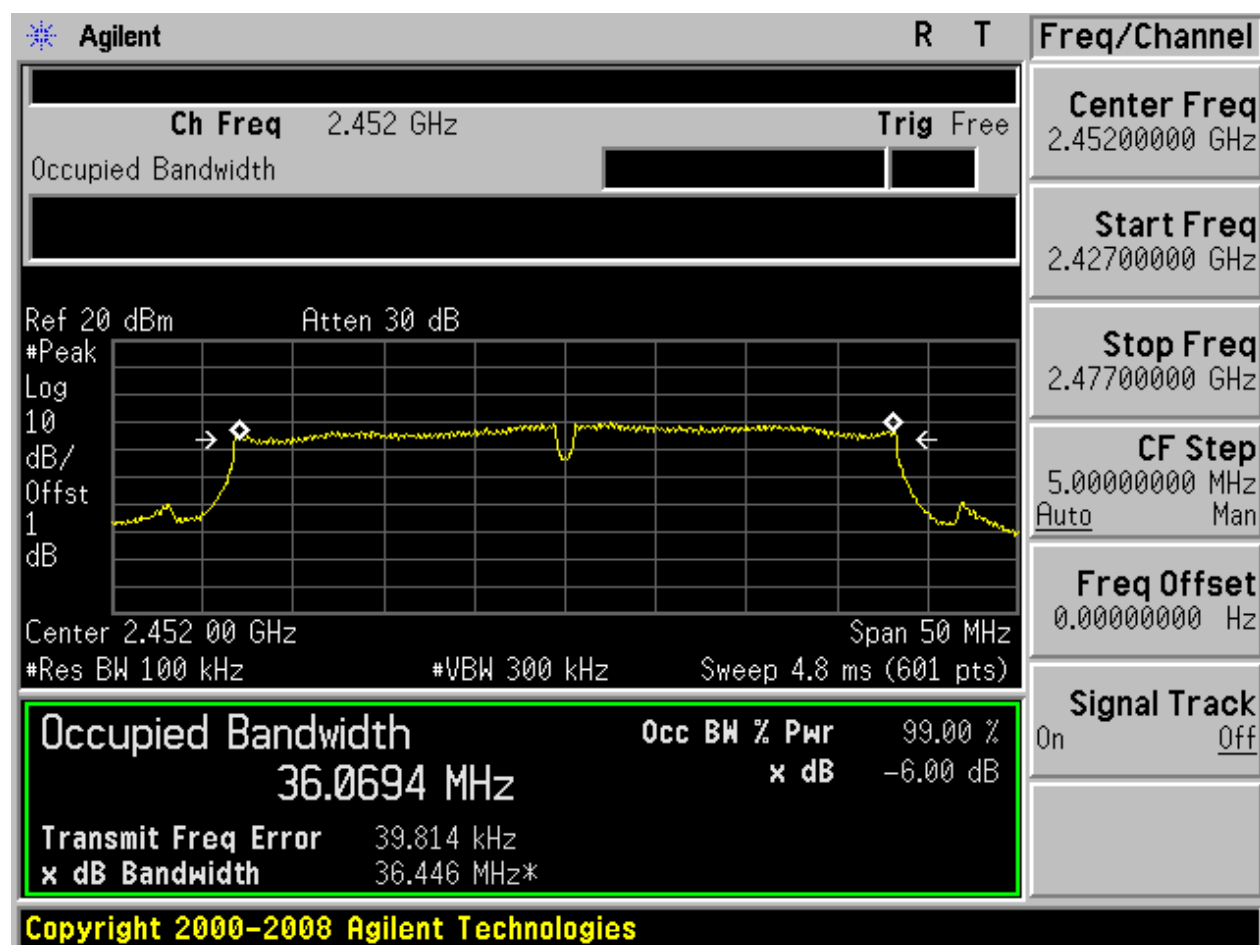


## 2.23 11N40\_H@Ant 1

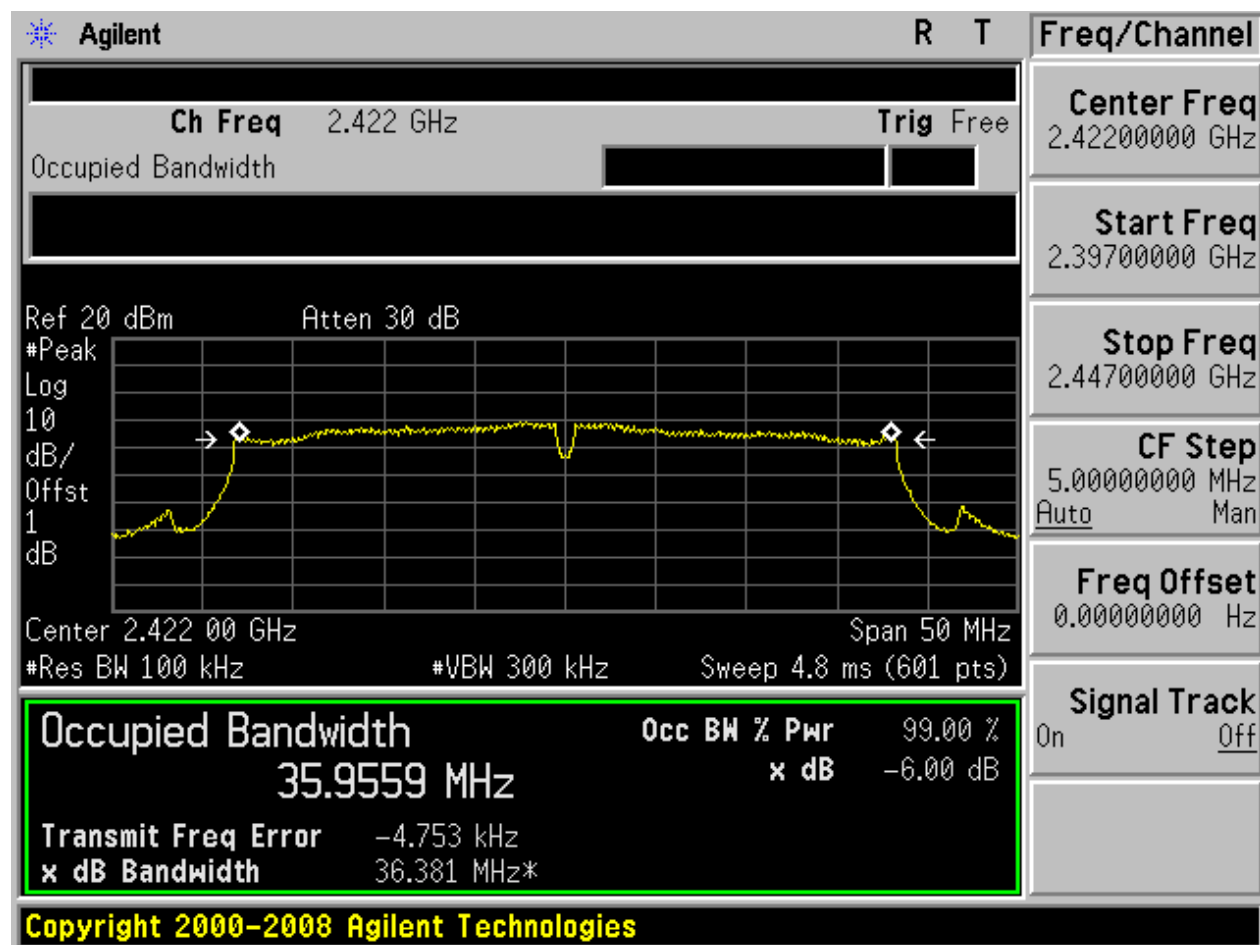




## 2.24 11N40\_H@Ant 2

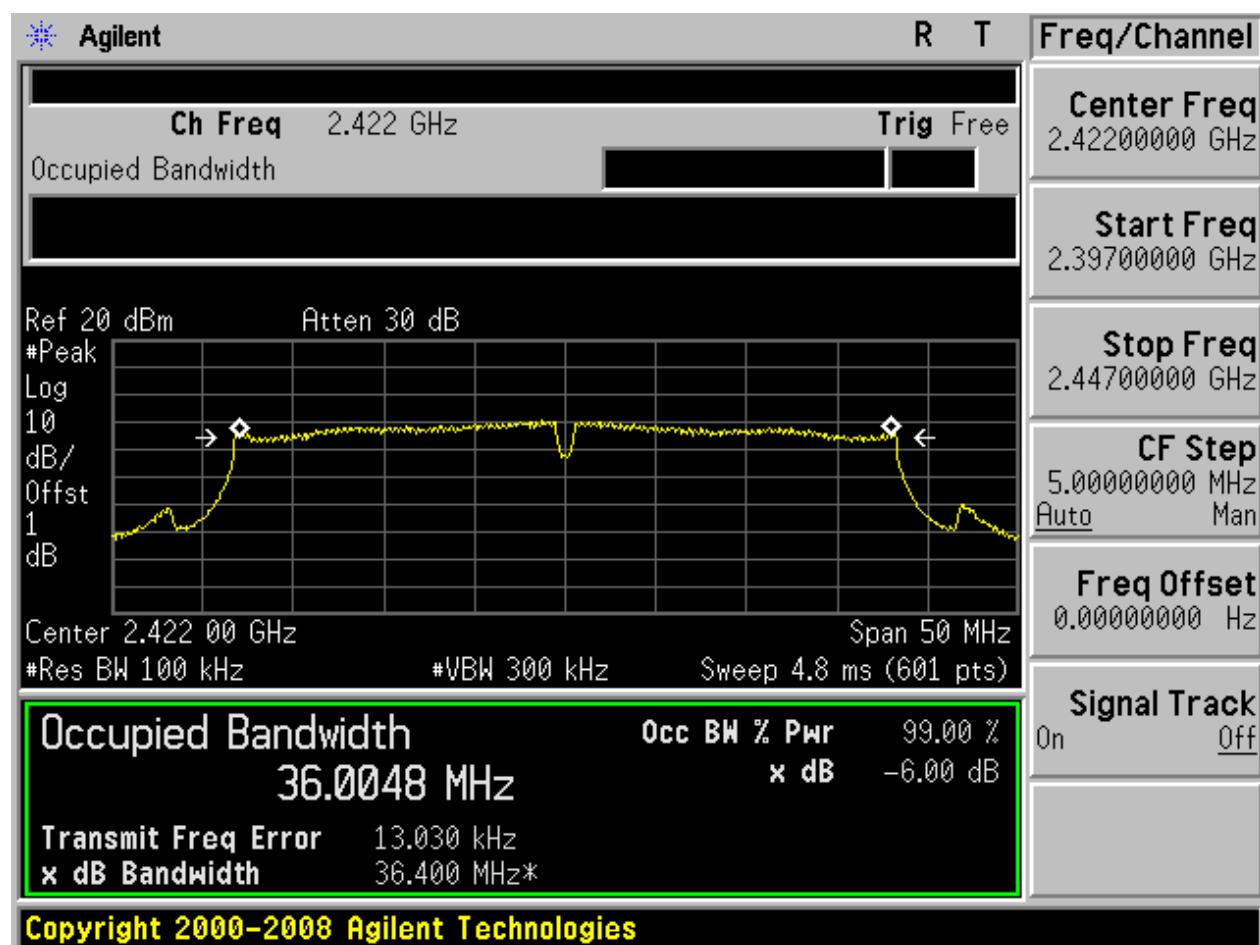


## 2.31 11N40m\_L@Ant 1



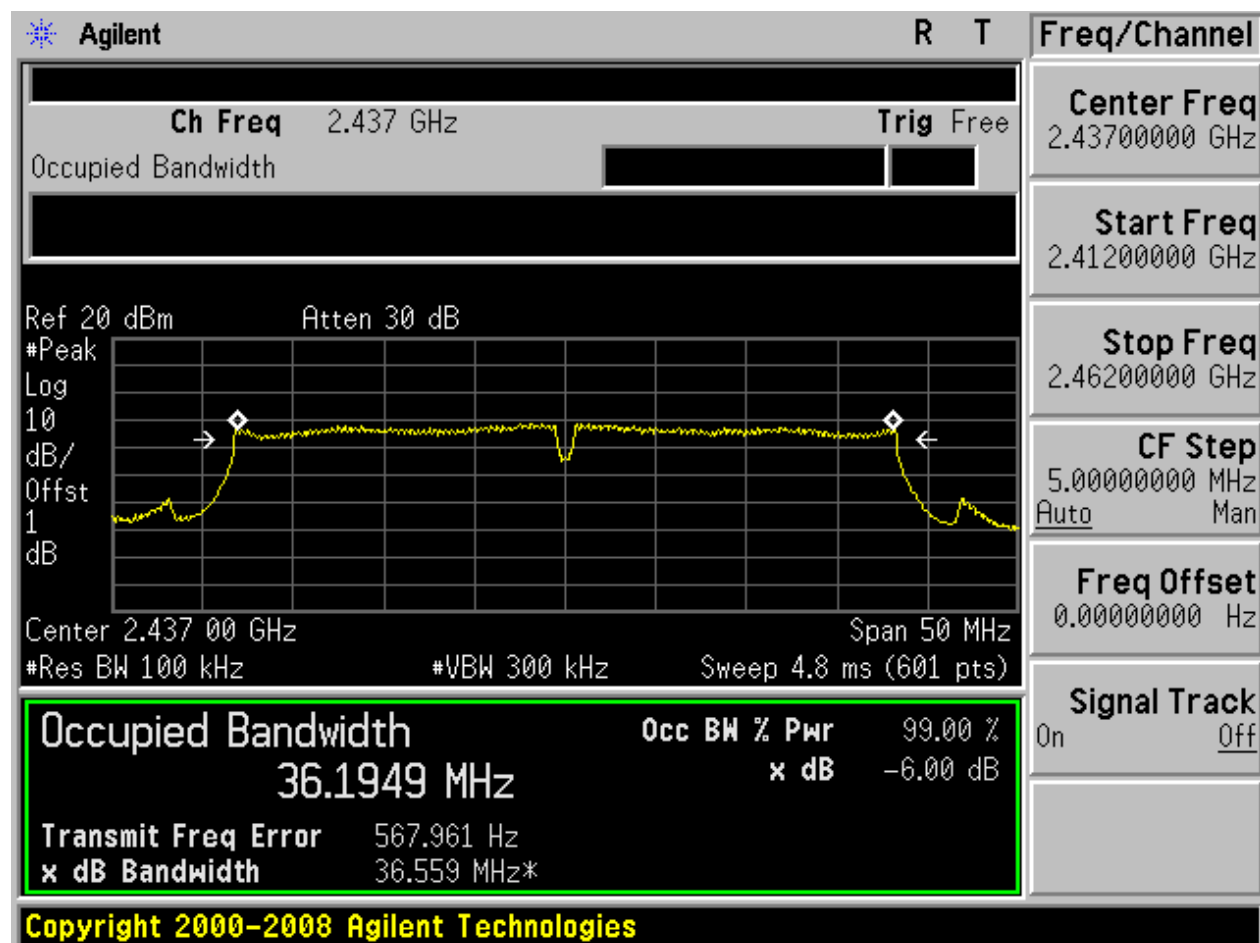


## 2.32 11N40m\_L@Ant 2



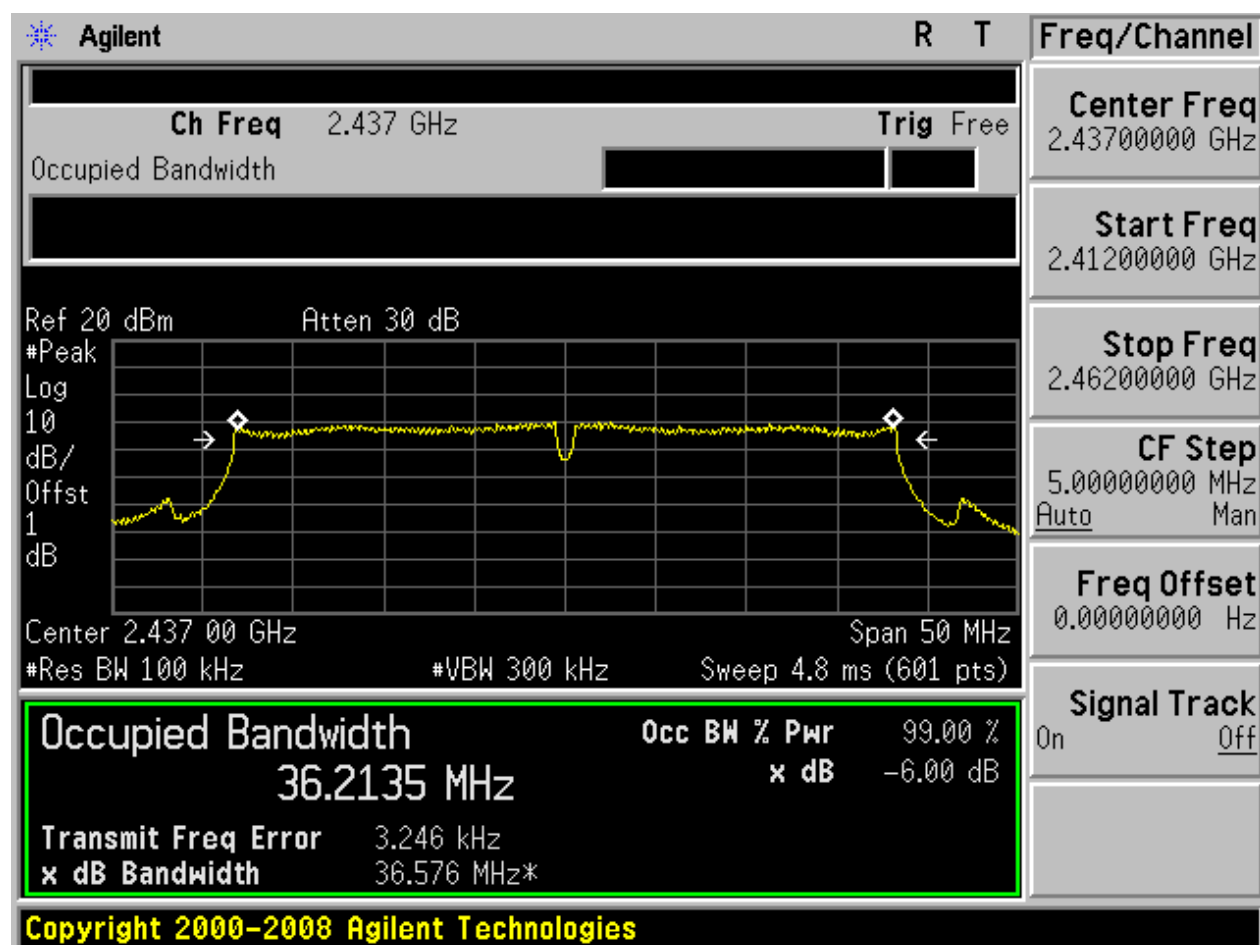


## 2.33 11N40m\_M@Ant 1



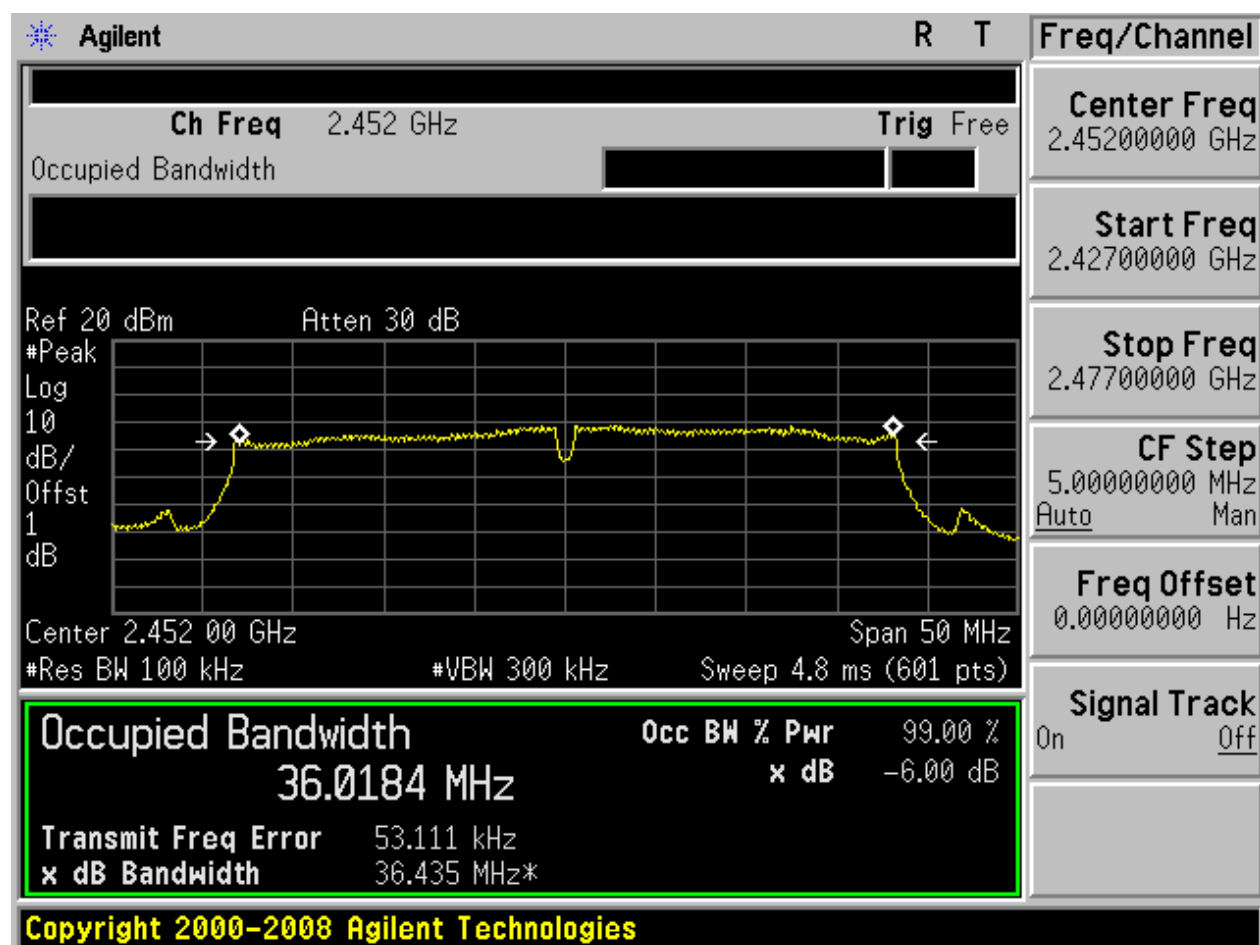


## 2.34 11N40m\_M@Ant 2



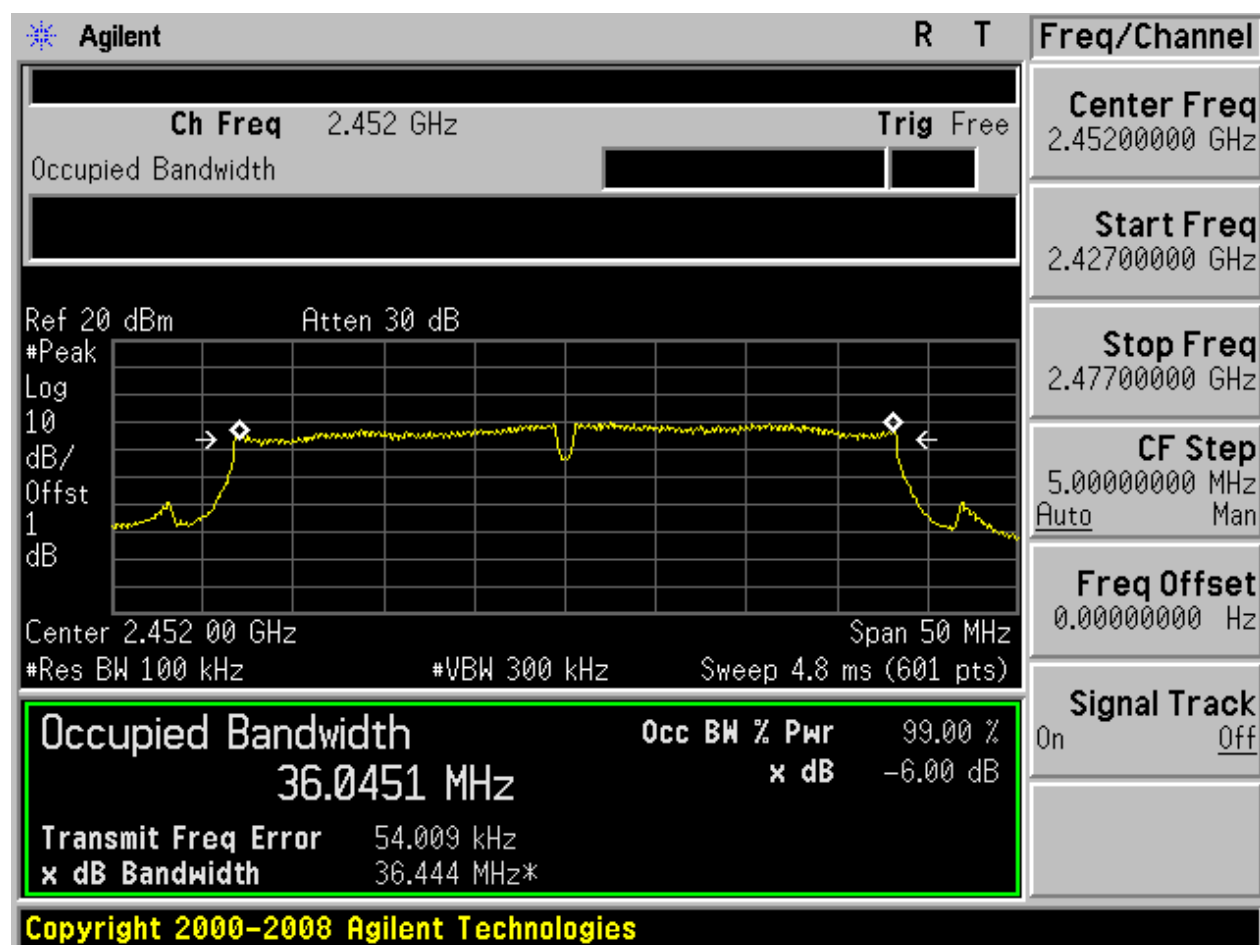


## 2.35 11N40m\_H@Ant 1





## 2.36 11N40m\_H@Ant 2



## Appendix B: Occupied Bandwidth

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

### Part I - Test Results

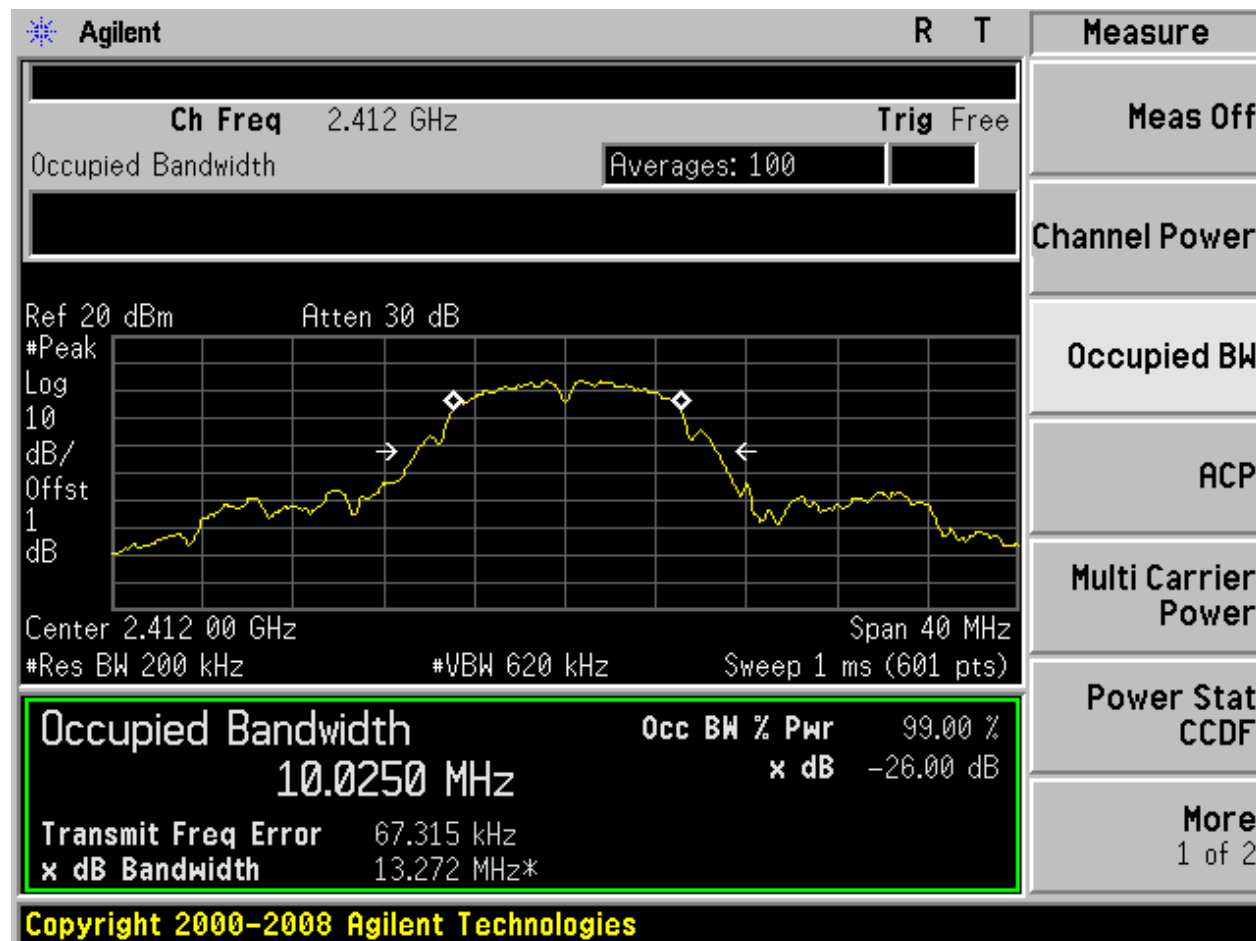
| Test Mode | Test Channel | Frequency[MHz] | Ant   | Occupied Bandwidth [MHz] | Verdict |
|-----------|--------------|----------------|-------|--------------------------|---------|
| 11B       | L            | 2412           | Ant 1 | 10.03                    | pass    |
| 11B       | L            | 2412           | Ant 2 | 10.01                    | pass    |
| 11B       | M            | 2437           | Ant 1 | 10.11                    | pass    |
| 11B       | M            | 2437           | Ant 2 | 10.13                    | pass    |
| 11B       | H            | 2462           | Ant 1 | 10.07                    | pass    |
| 11B       | H            | 2462           | Ant 2 | 10.01                    | pass    |
| 11G       | L            | 2412           | Ant 1 | 16.22                    | pass    |
| 11G       | L            | 2412           | Ant 2 | 16.23                    | pass    |
| 11G       | M            | 2437           | Ant 1 | 16.34                    | pass    |
| 11G       | M            | 2437           | Ant 2 | 16.34                    | pass    |
| 11G       | H            | 2462           | Ant 1 | 16.25                    | pass    |
| 11G       | H            | 2462           | Ant 2 | 16.24                    | pass    |
| 11N20     | L            | 2412           | Ant 1 | 17.40                    | pass    |
| 11N20     | L            | 2412           | Ant 2 | 17.40                    | pass    |
| 11N20     | M            | 2437           | Ant 1 | 17.44                    | pass    |
| 11N20     | M            | 2437           | Ant 2 | 17.48                    | pass    |
| 11N20     | H            | 2462           | Ant 1 | 17.39                    | pass    |
| 11N20     | H            | 2462           | Ant 2 | 17.40                    | pass    |
| 11N20m    | L            | 2412           | Ant 1 | 17.35                    | pass    |
| 11N20m    | L            | 2412           | Ant 2 | 17.39                    | pass    |
| 11N20m    | M            | 2437           | Ant 1 | 17.45                    | pass    |
| 11N20m    | M            | 2437           | Ant 2 | 17.46                    | pass    |
| 11N20m    | H            | 2462           | Ant 1 | 17.41                    | pass    |
| 11N20m    | H            | 2462           | Ant 2 | 17.44                    | pass    |
| 11N40     | L            | 2422           | Ant 1 | 35.93                    | pass    |
| 11N40     | L            | 2422           | Ant 2 | 36.02                    | pass    |
| 11N40     | M            | 2437           | Ant 1 | 36.14                    | pass    |
| 11N40     | M            | 2437           | Ant 2 | 36.25                    | pass    |
| 11N40     | H            | 2452           | Ant 1 | 35.99                    | pass    |
| 11N40     | H            | 2452           | Ant 2 | 36.12                    | pass    |
| 11N40m    | L            | 2422           | Ant 1 | 35.96                    | pass    |
| 11N40m    | L            | 2422           | Ant 2 | 36.00                    | pass    |
| 11N40m    | M            | 2437           | Ant 1 | 36.22                    | pass    |
| 11N40m    | M            | 2437           | Ant 2 | 36.24                    | pass    |



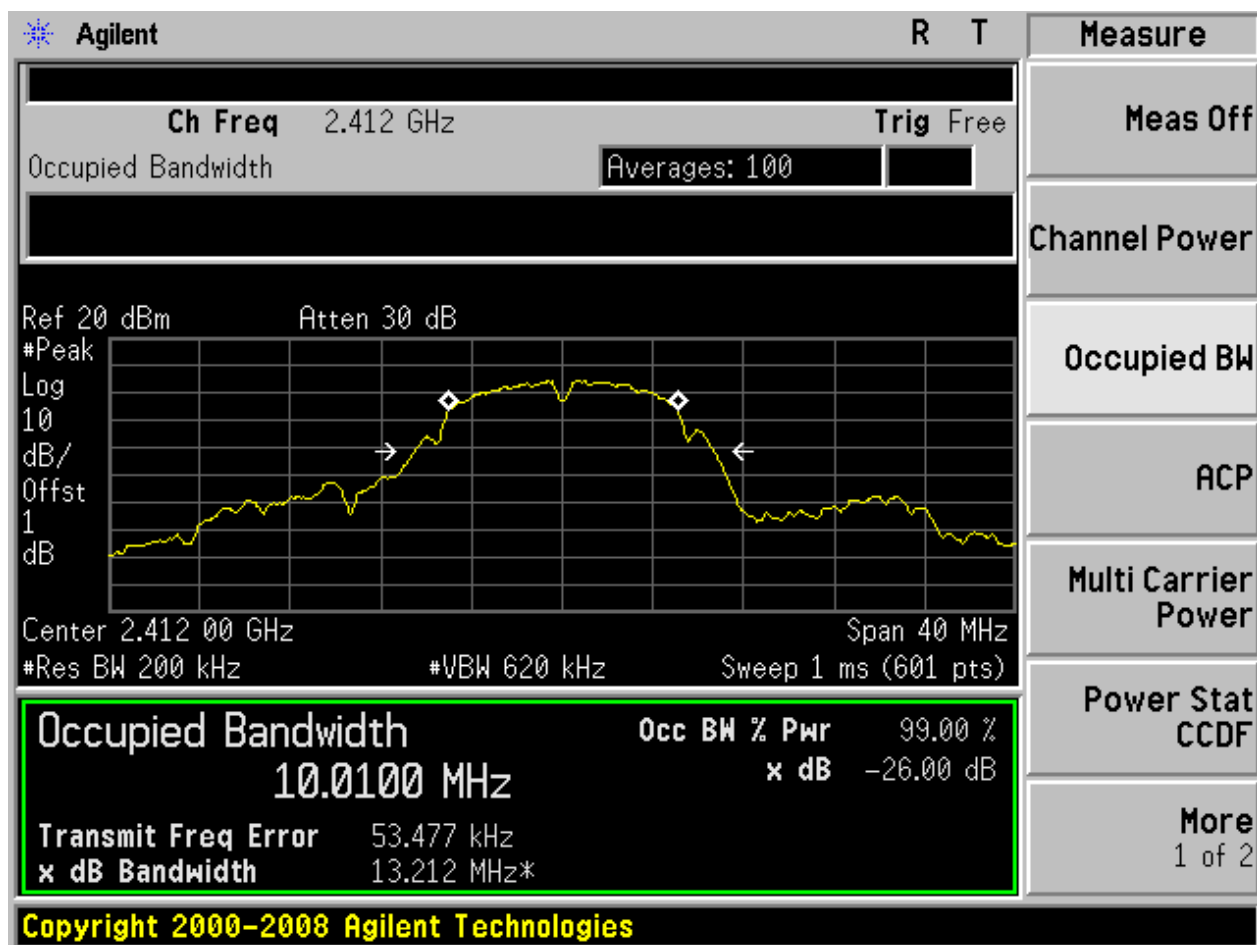
| Test Mode | Test Channel | Frequency[MHz] | Ant   | Occupied Bandwidth [MHz] | Verdict |
|-----------|--------------|----------------|-------|--------------------------|---------|
| 11N40m    | H            | 2452           | Ant 1 | 36.03                    | pass    |
| 11N40m    | H            | 2452           | Ant 2 | 36.01                    | pass    |

## Part II - Test Plots

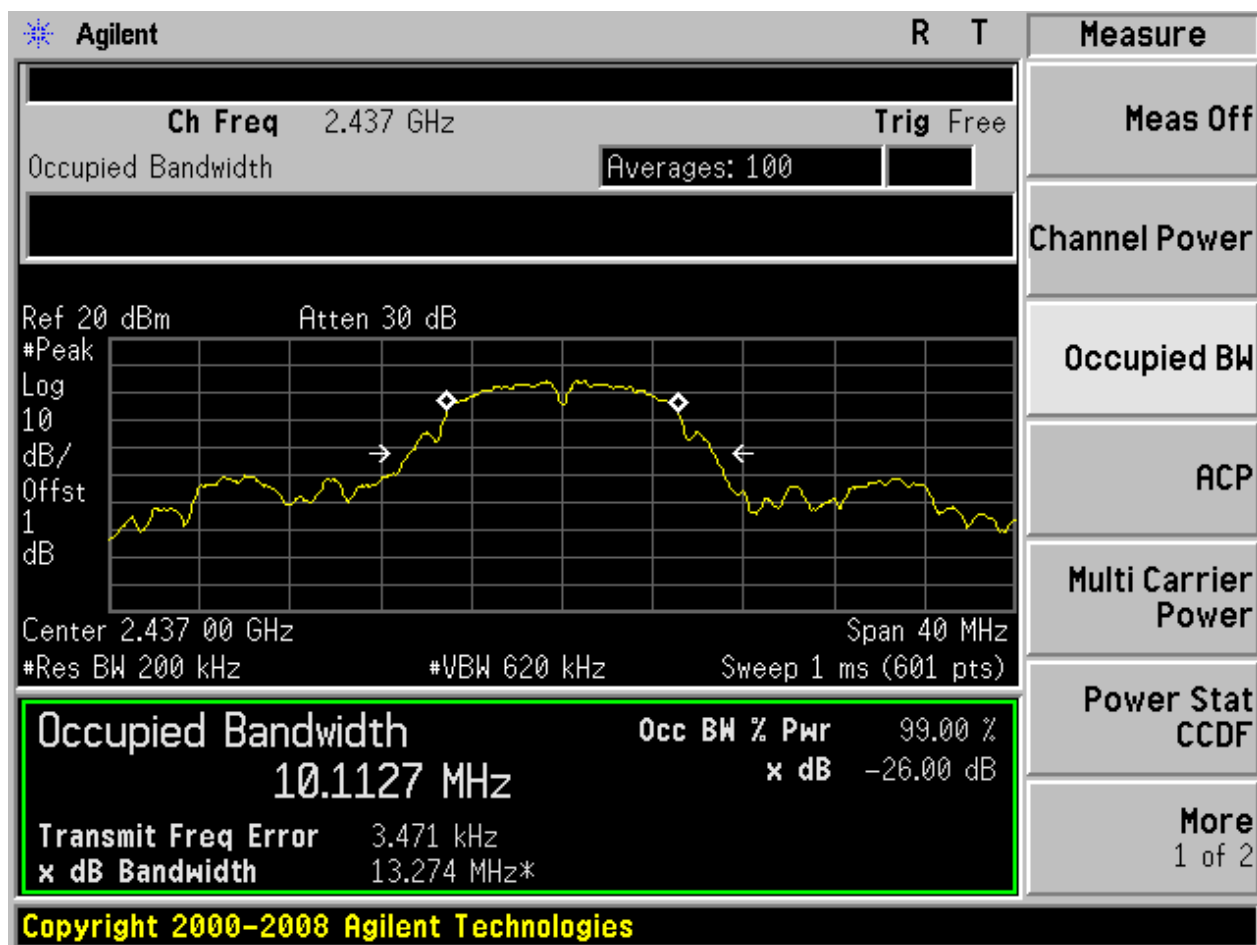
### 2.1 11B\_L@Ant 1



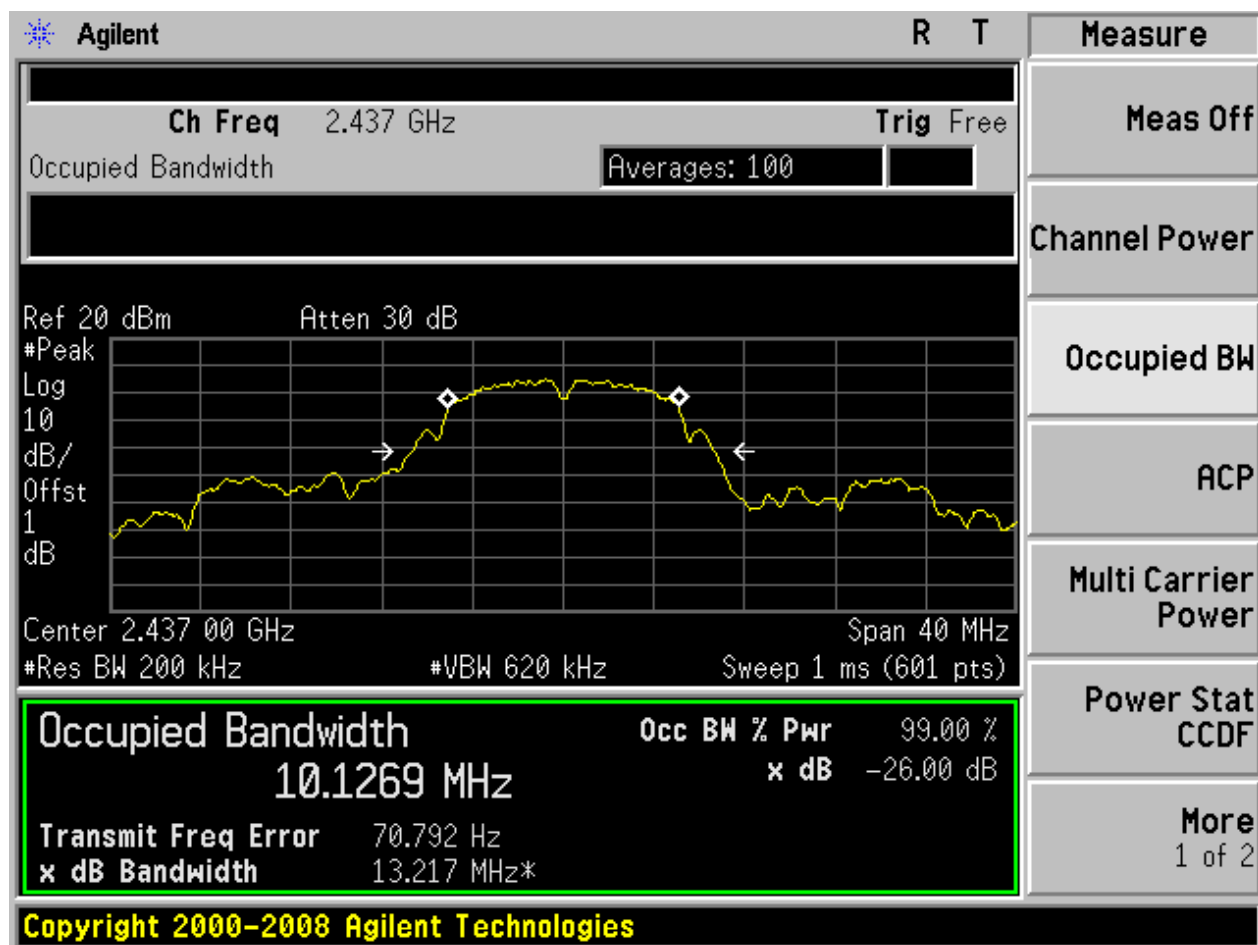
## 2.2 11B\_L@Ant 2



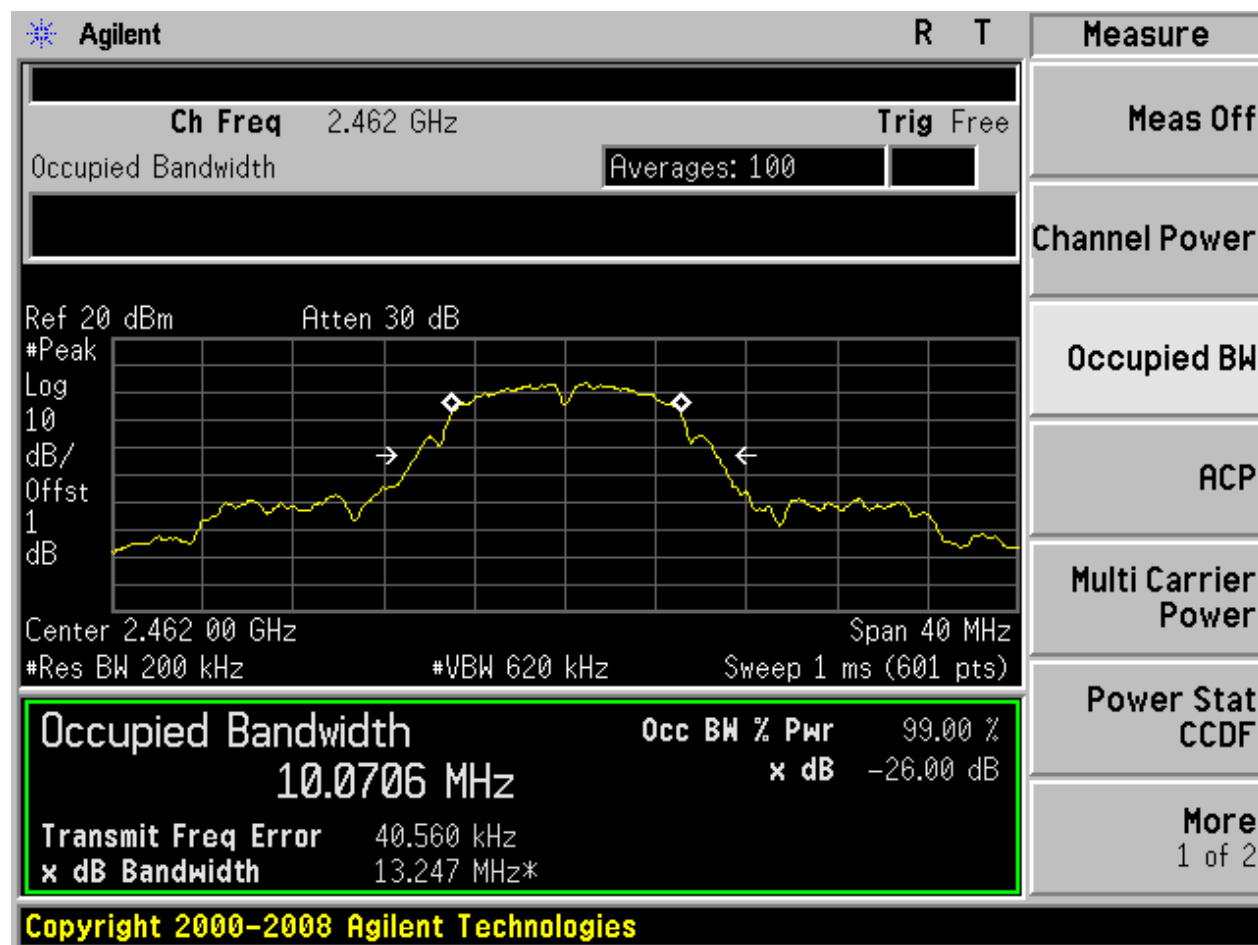
### 2.3 11B\_M@Ant 1



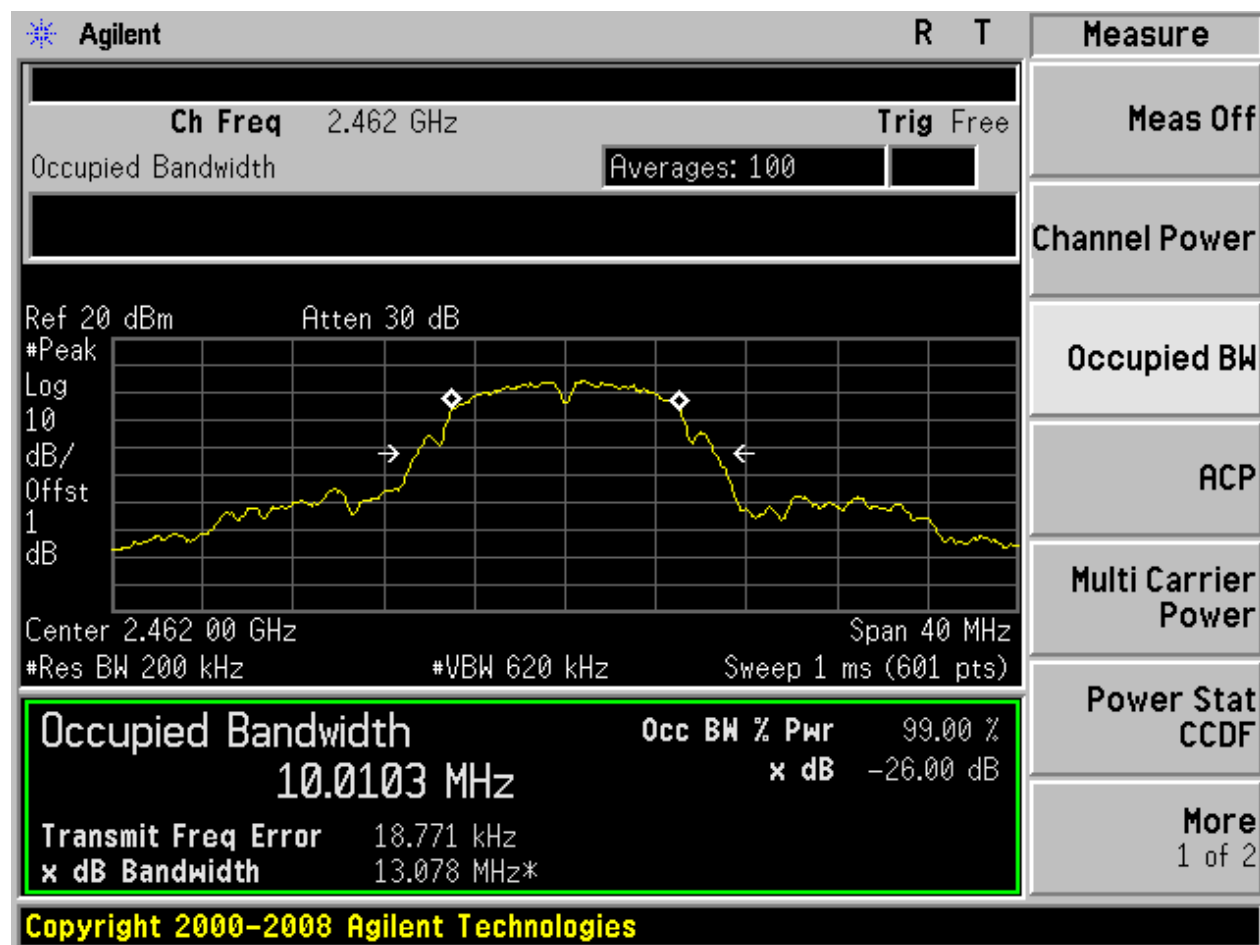
## 2.4 11B\_M@Ant 2



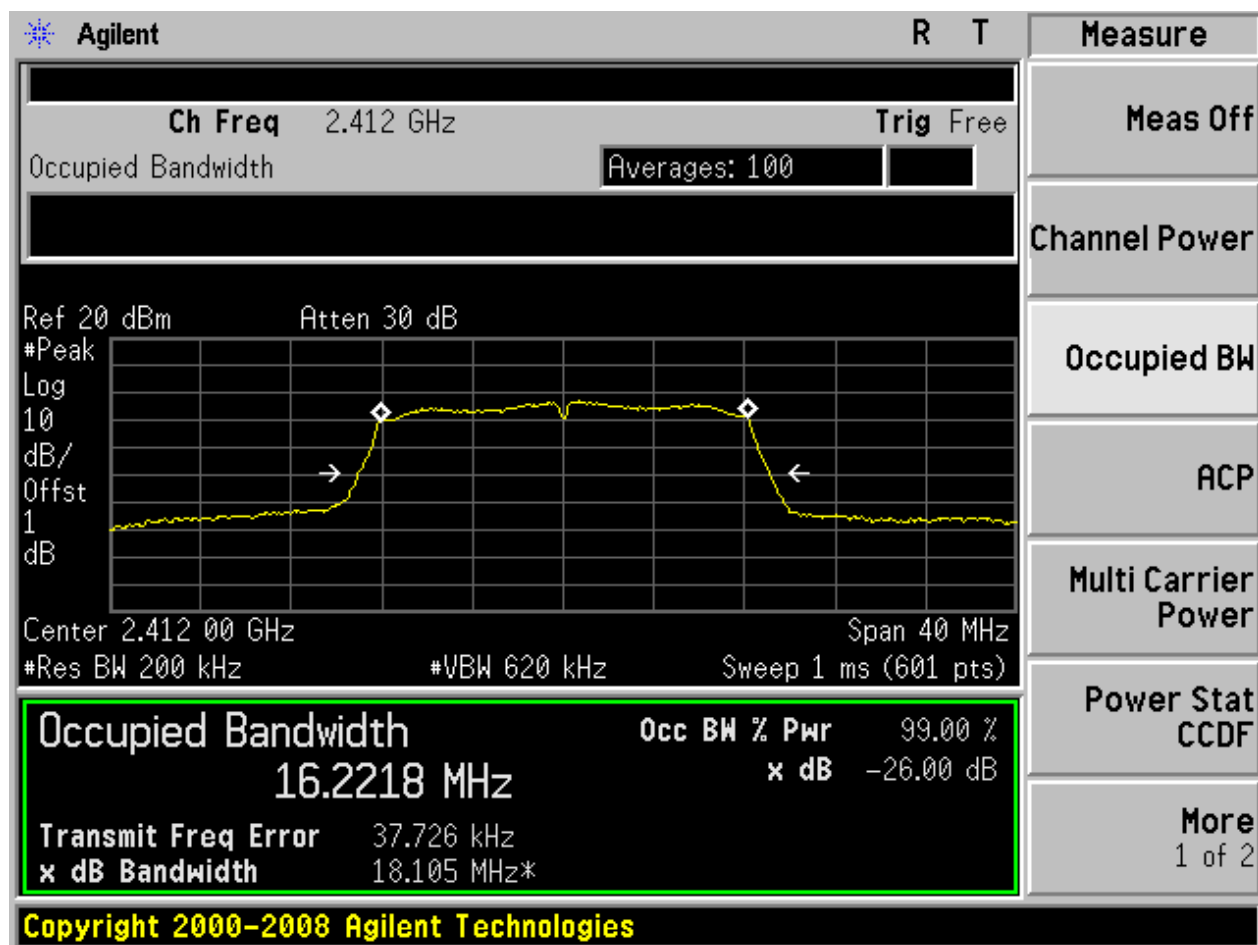
## 2.5 11B\_H@Ant 1



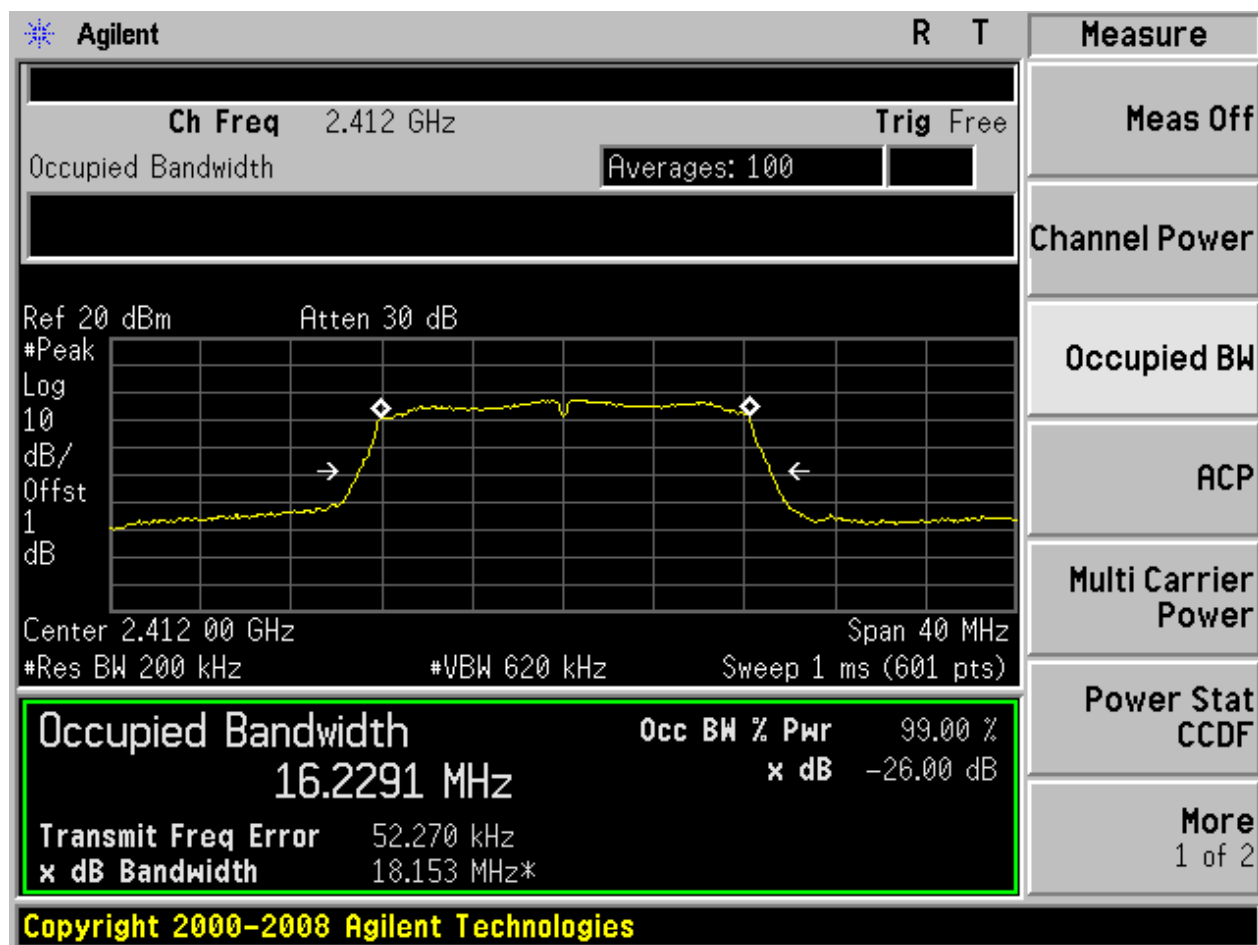
## 2.6 11B\_H@Ant 2



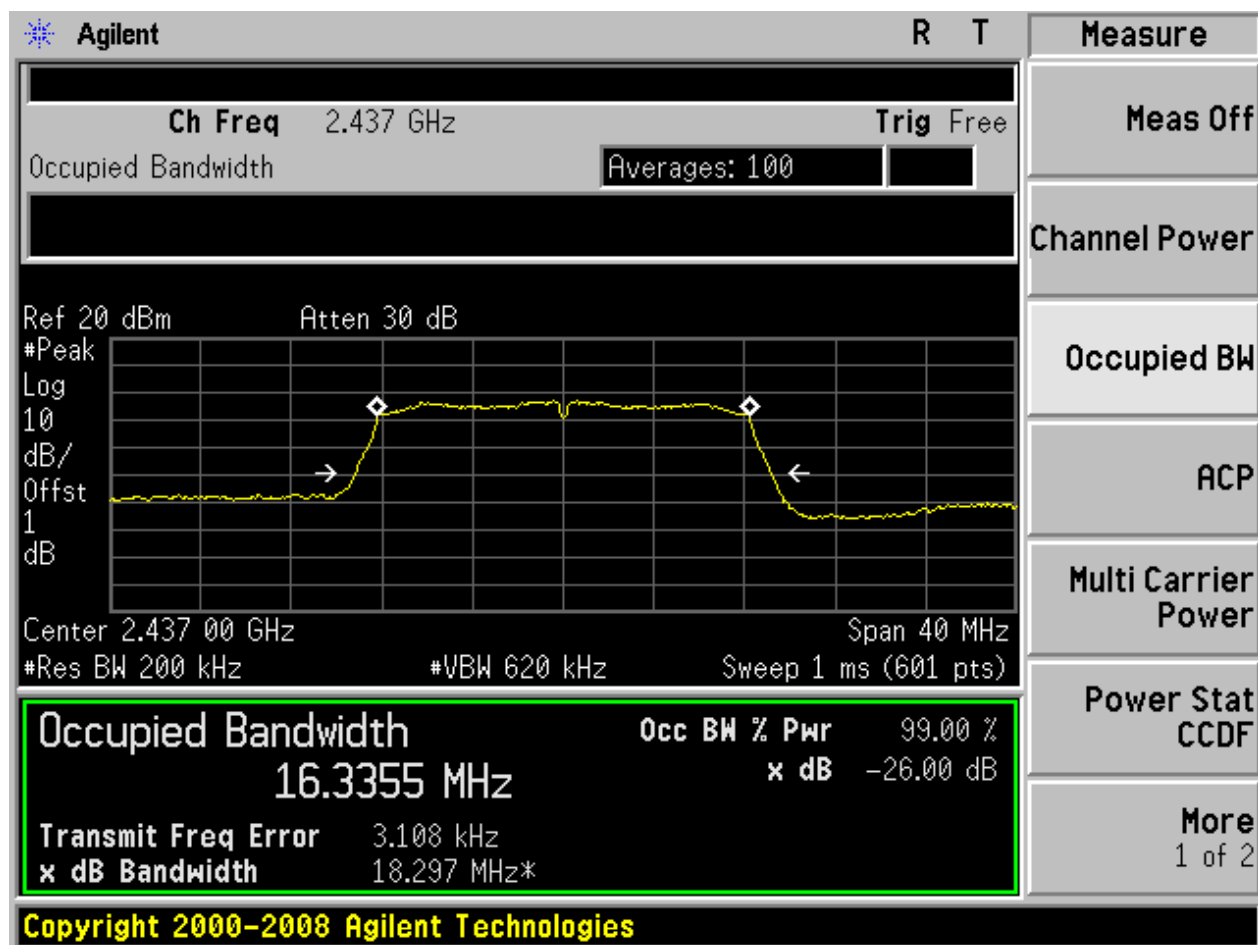
## 2.7 11G\_L@Ant 1



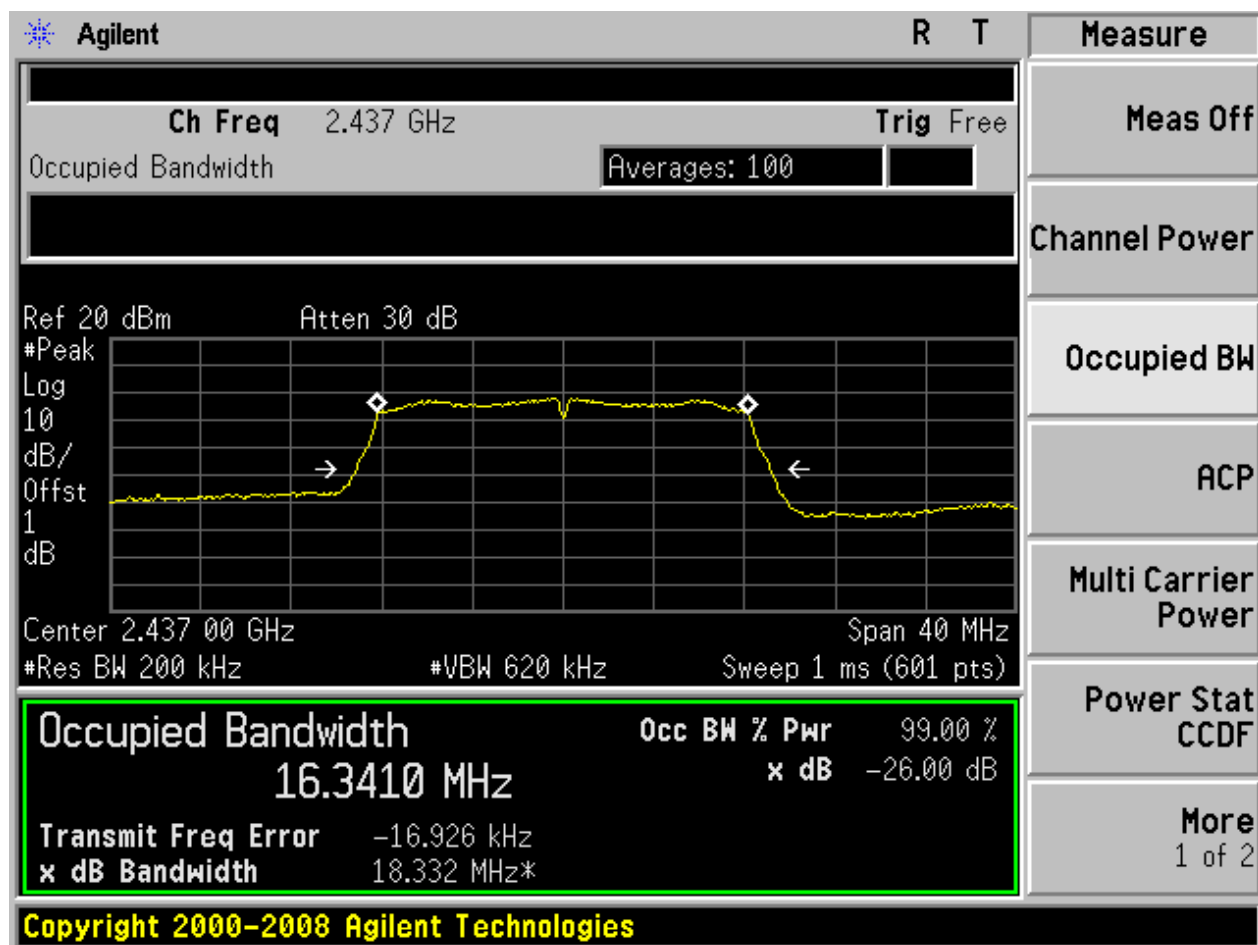
## 2.8 11G\_L@Ant 2



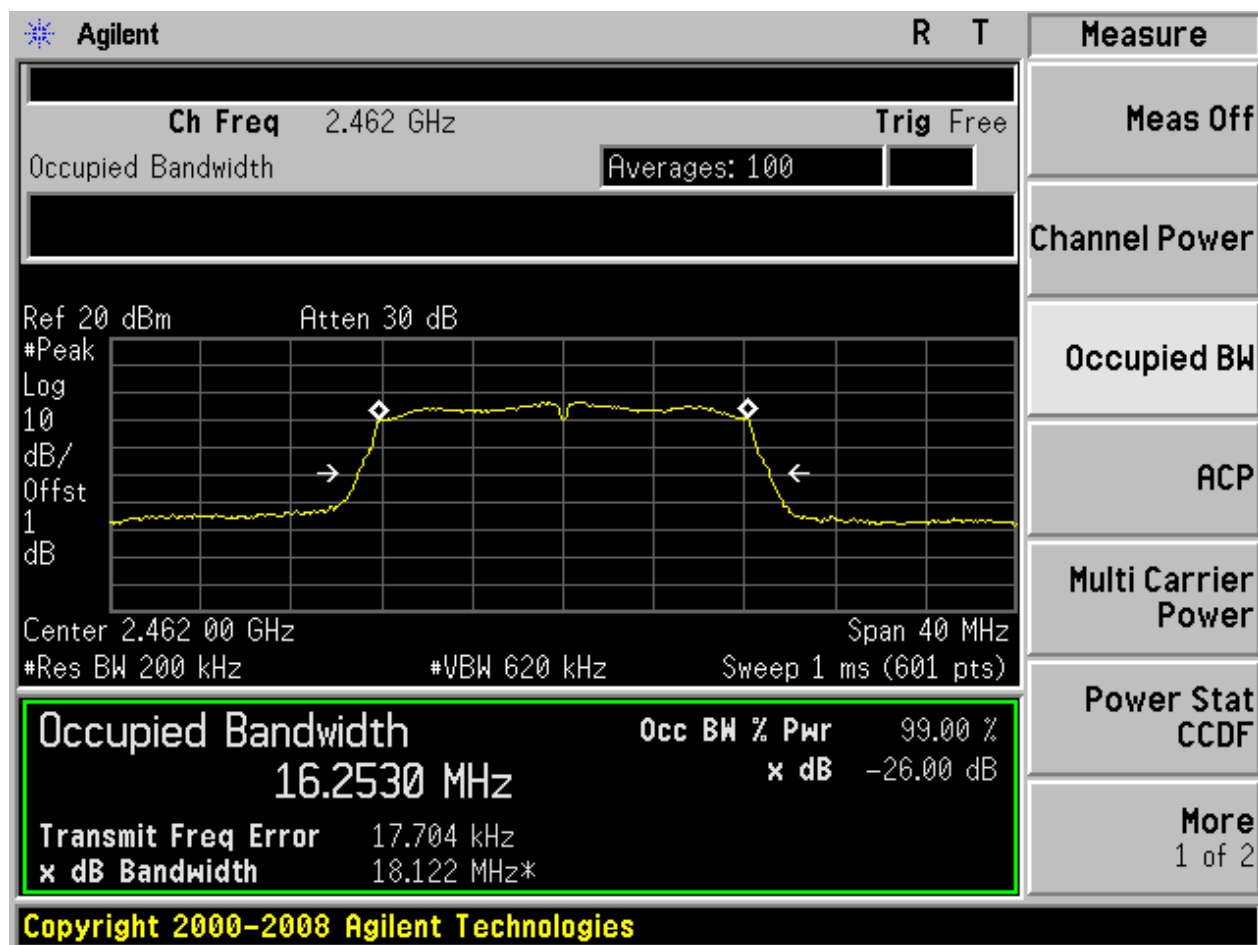
## 2.9 11G\_M@Ant 1



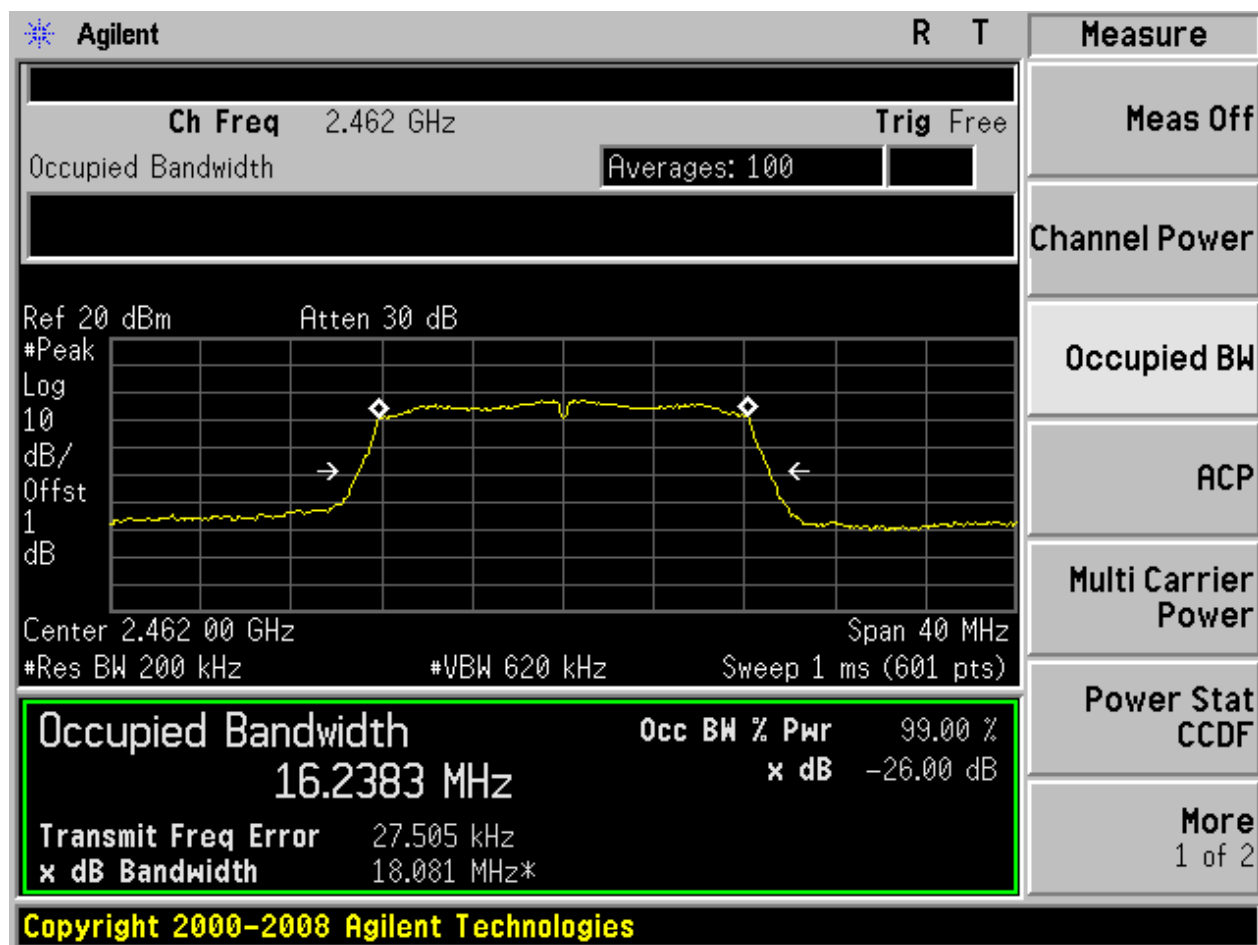
## 2.10 11G\_M@Ant 2



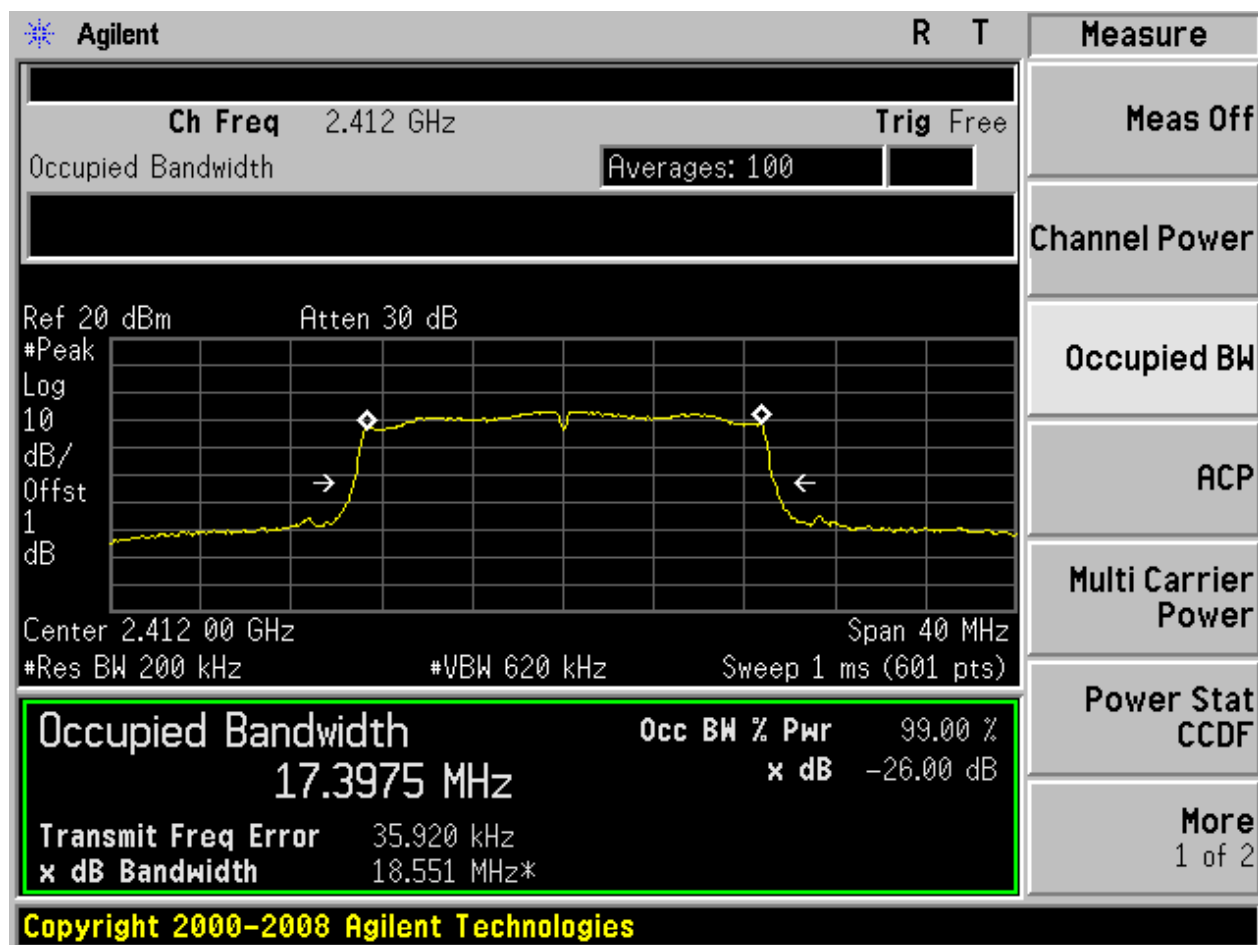
## 2.11 11G\_H@Ant 1



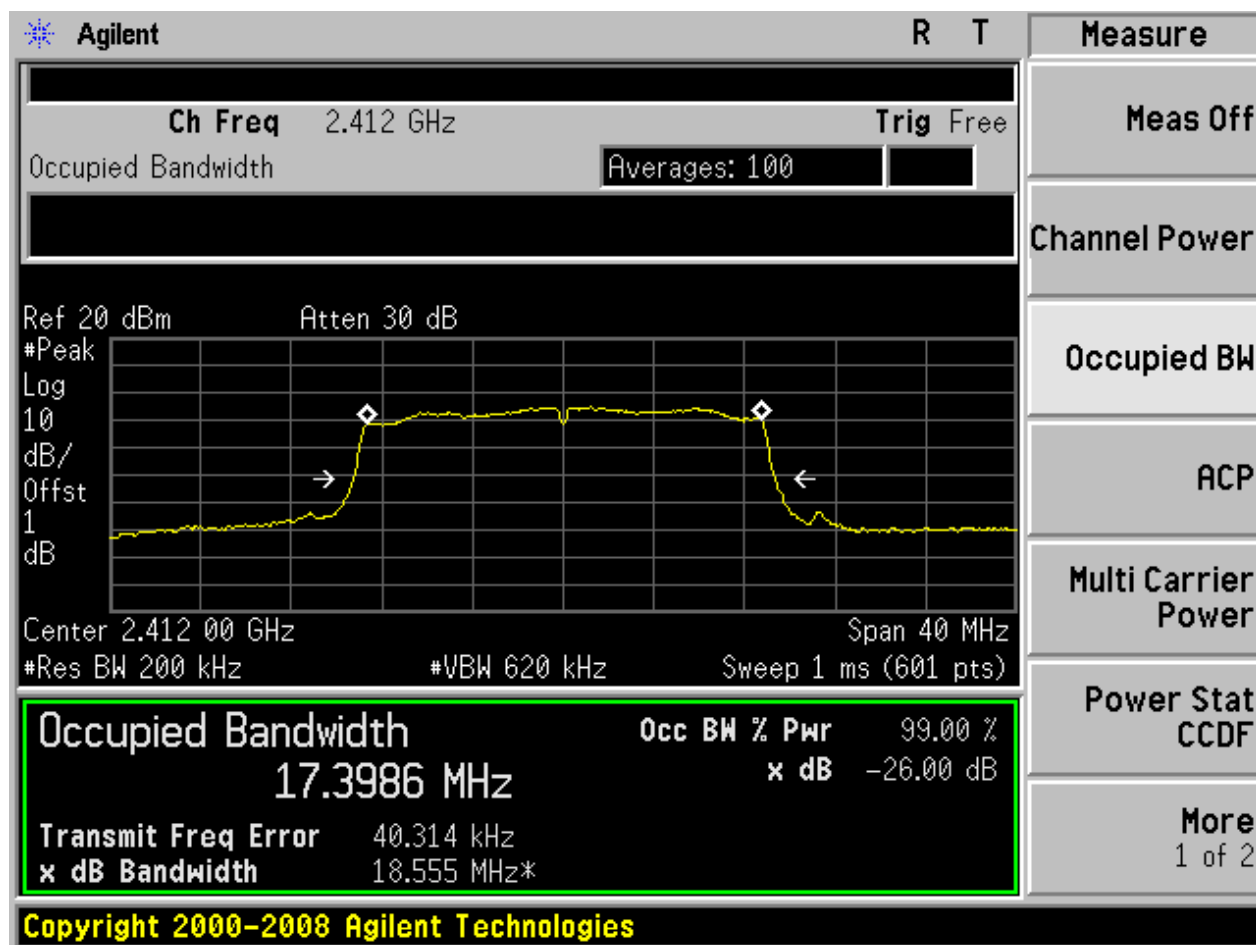
## 2.12 11G\_H@Ant 2



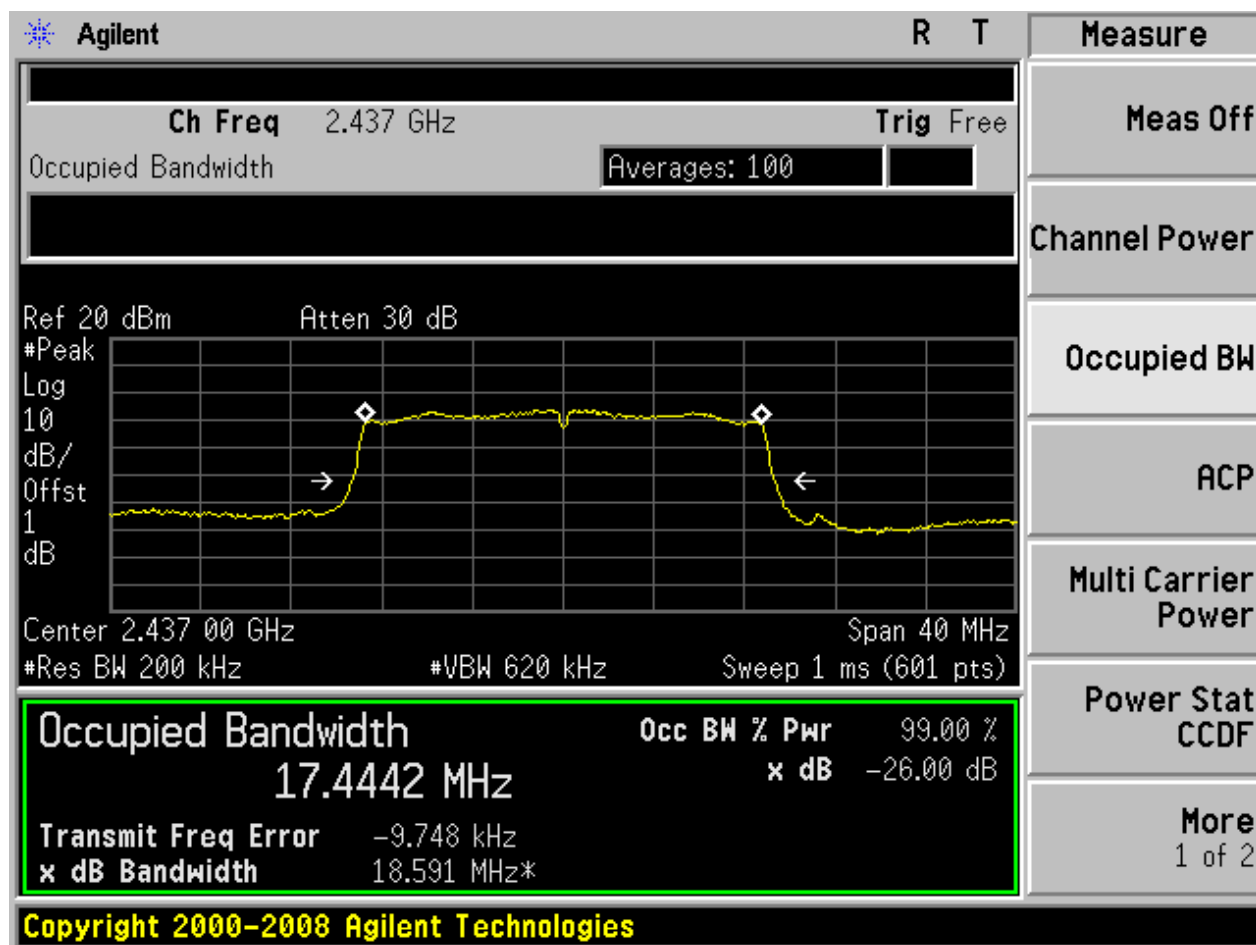
## 2.13 11N20\_L@Ant 1



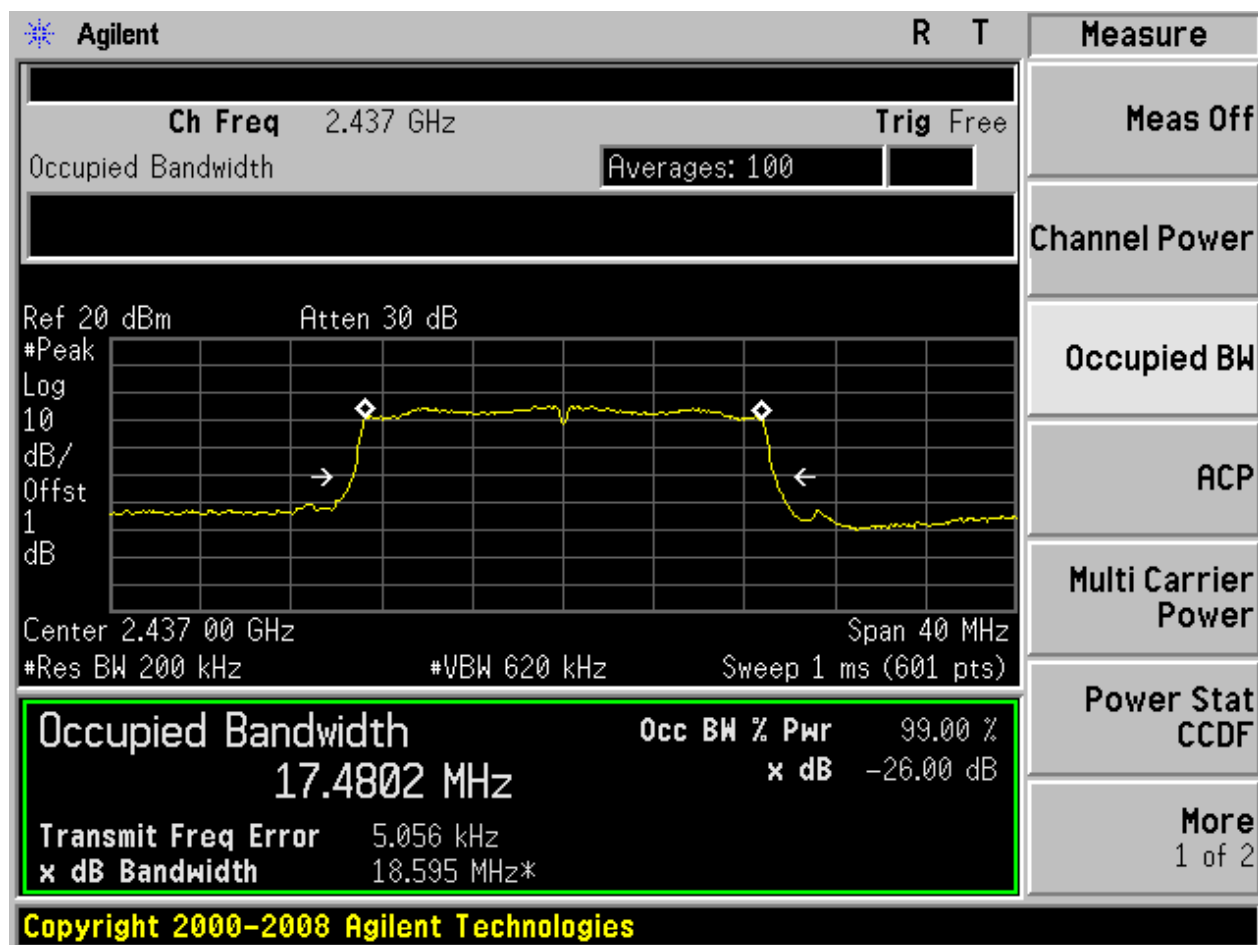
## 2.14 11N20\_L@Ant 2



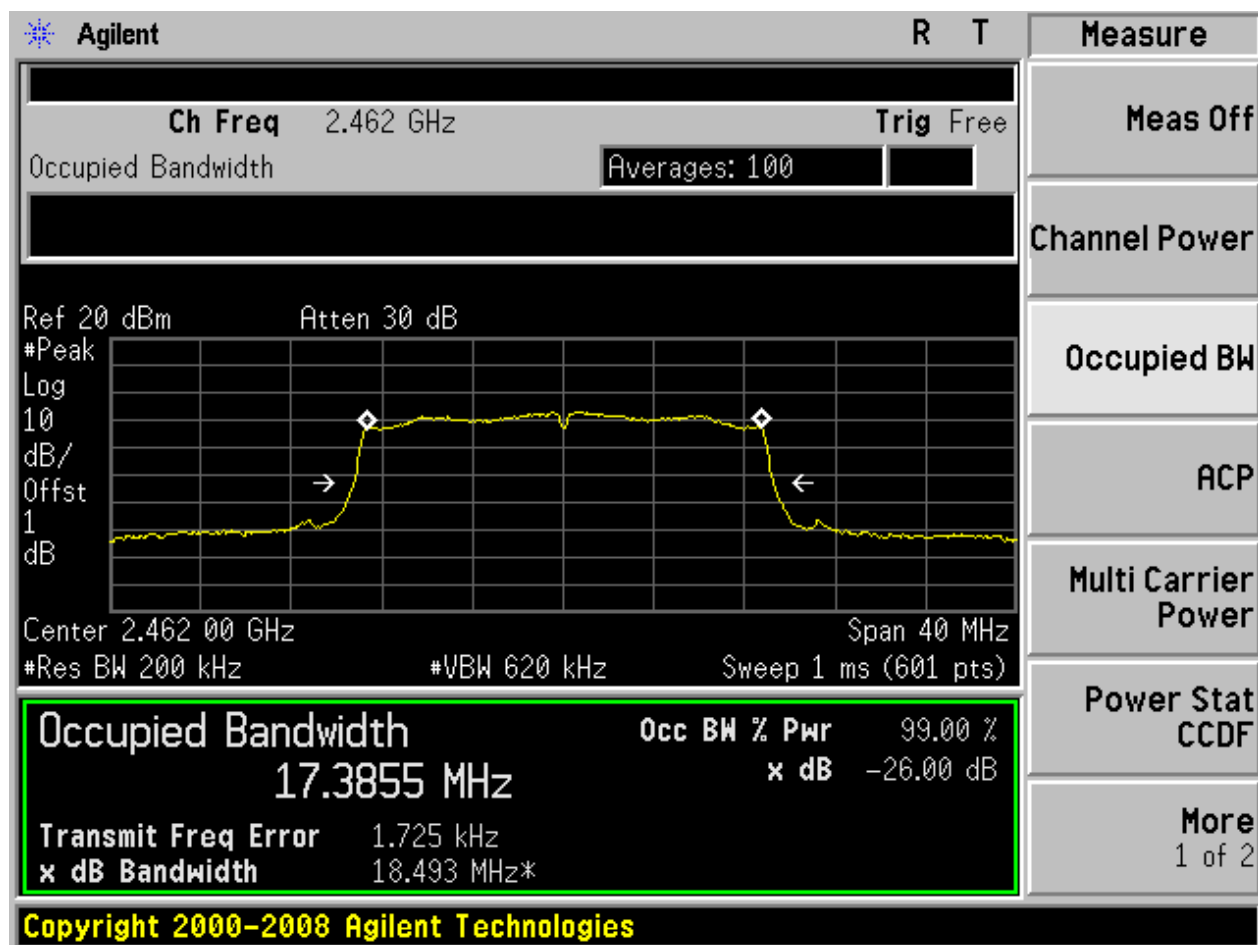
## 2.15 11N20\_M@Ant 1



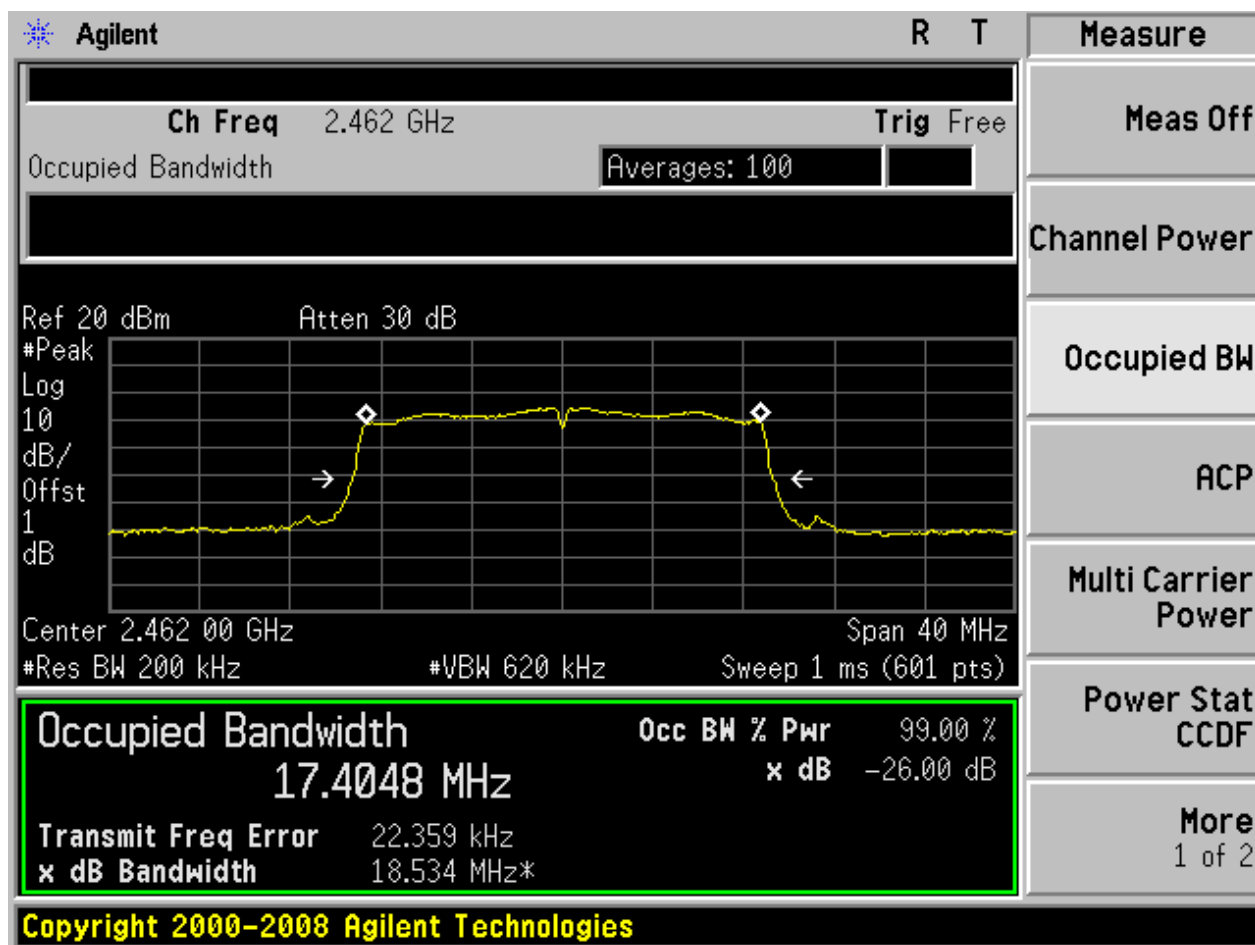
## 2.16 11N20\_M@Ant 2



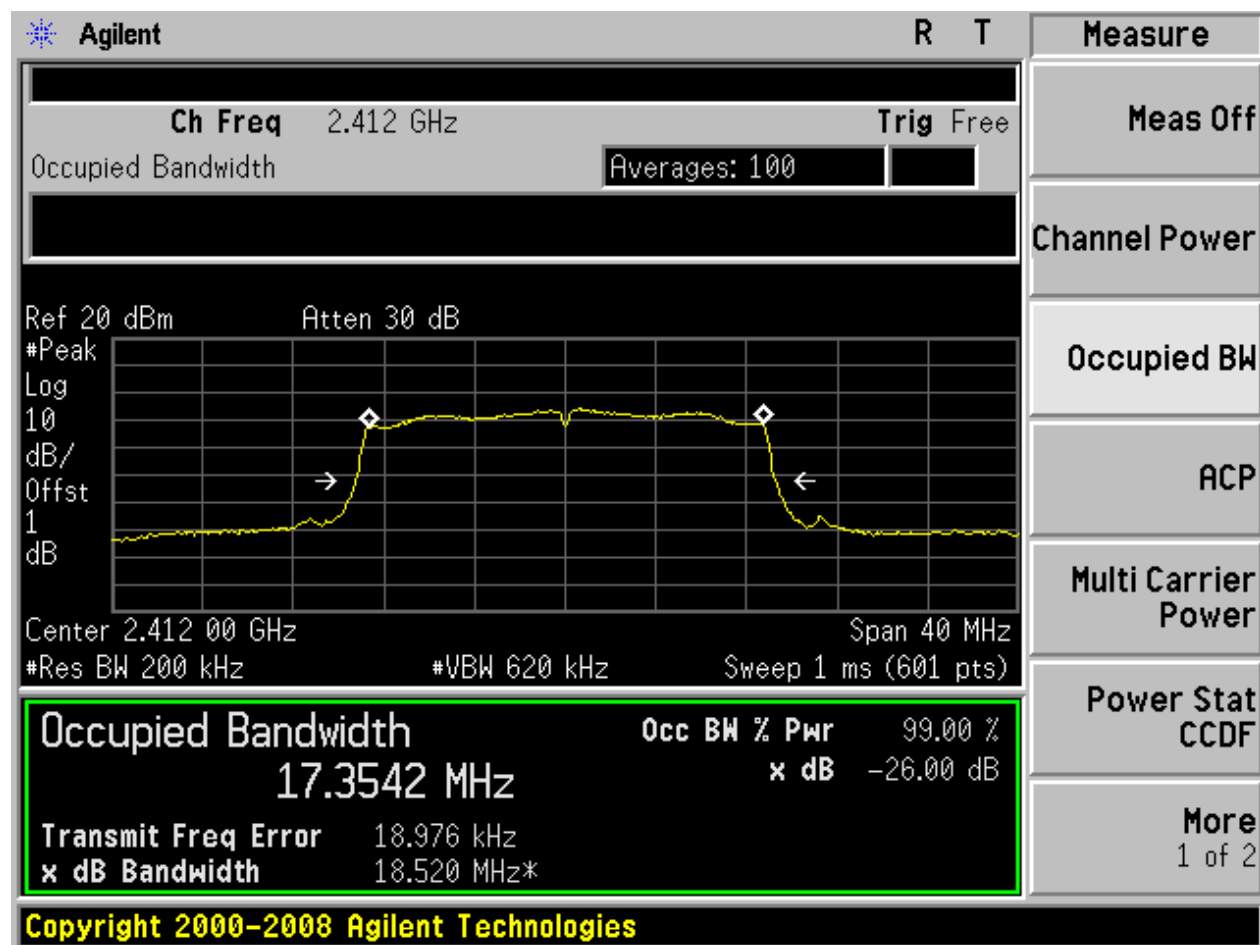
## 2.17 11N20\_H@Ant 1



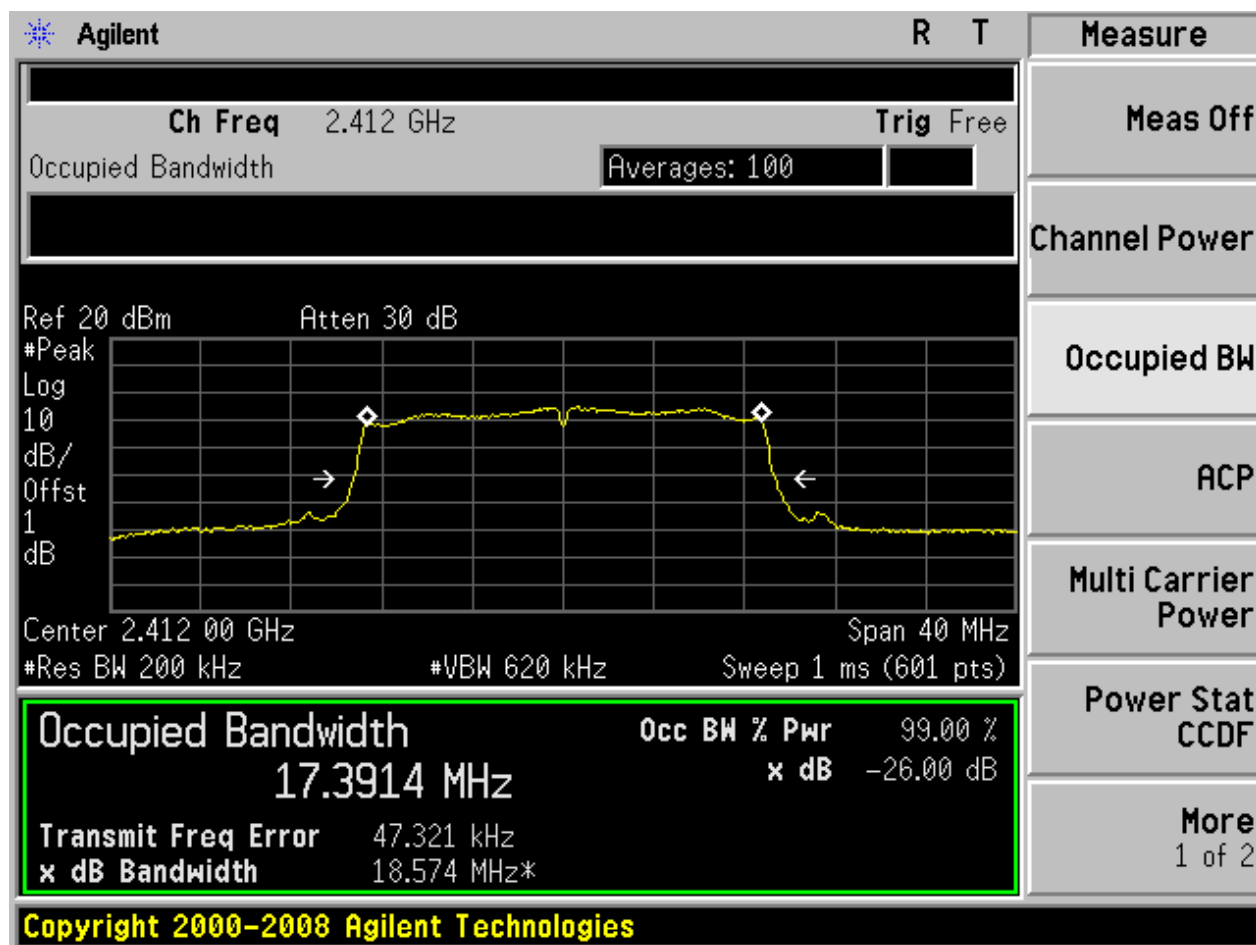
## 2.18 11N20\_H@Ant 2



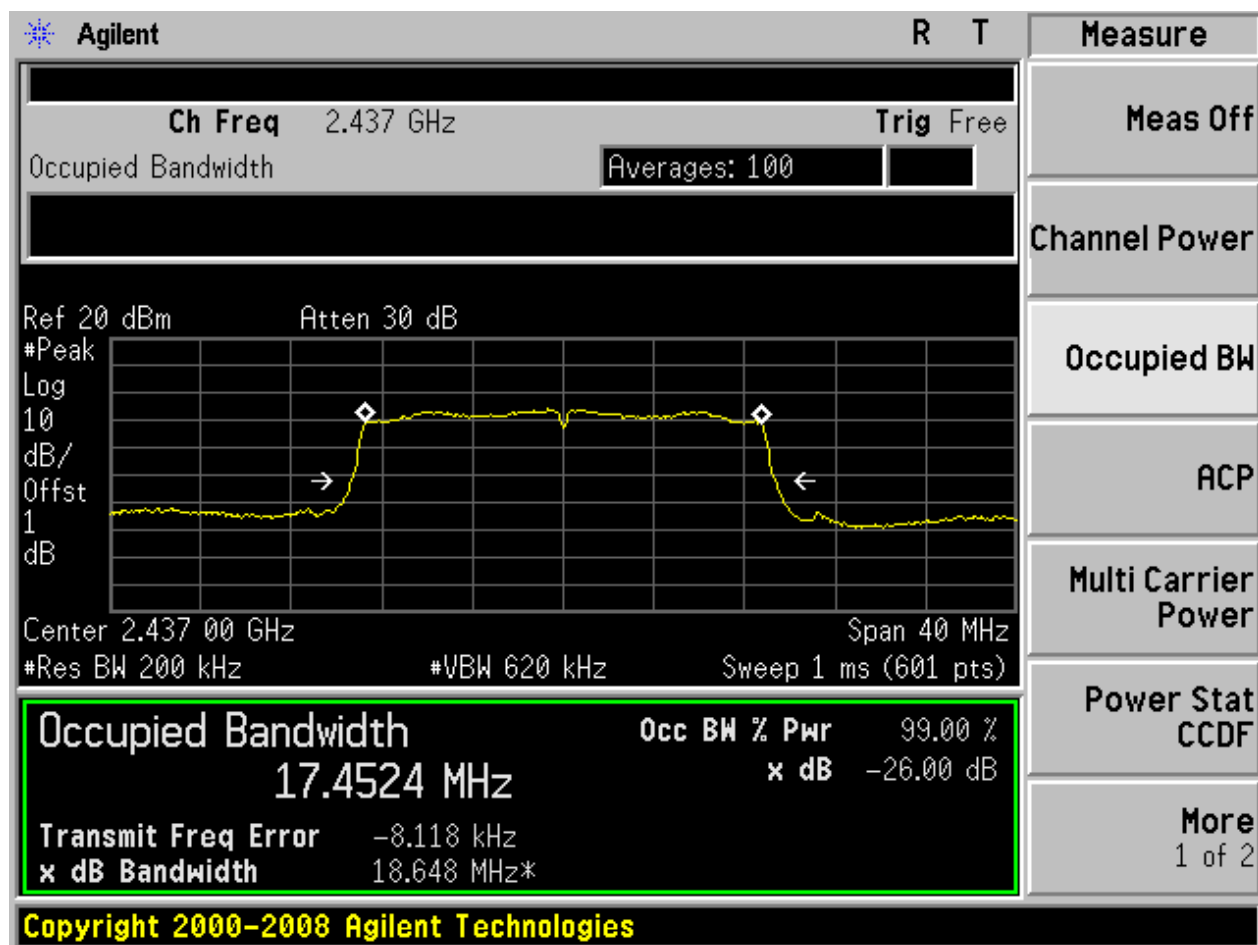
## 2.13 11N20m\_L@Ant 1

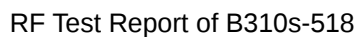


## 2.14 11N20m\_L@Ant 2



## 2.15 11N20m\_M@Ant 1





Agilent R T Measure

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth Averages: 100

Ref 20 dBm Atten 30 dB

#Peak Log 10 dB/Offst 1 dB

Center 2.437 00 GHz Span 40 MHz

#Res BW 200 kHz #VBW 620 kHz Sweep 1 ms (601 pts)

**Occupied Bandwidth** 17.4609 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -2.805 kHz

x dB Bandwidth 18.701 MHz\*

Meas Off

Channel Power

Occupied BW

ACP

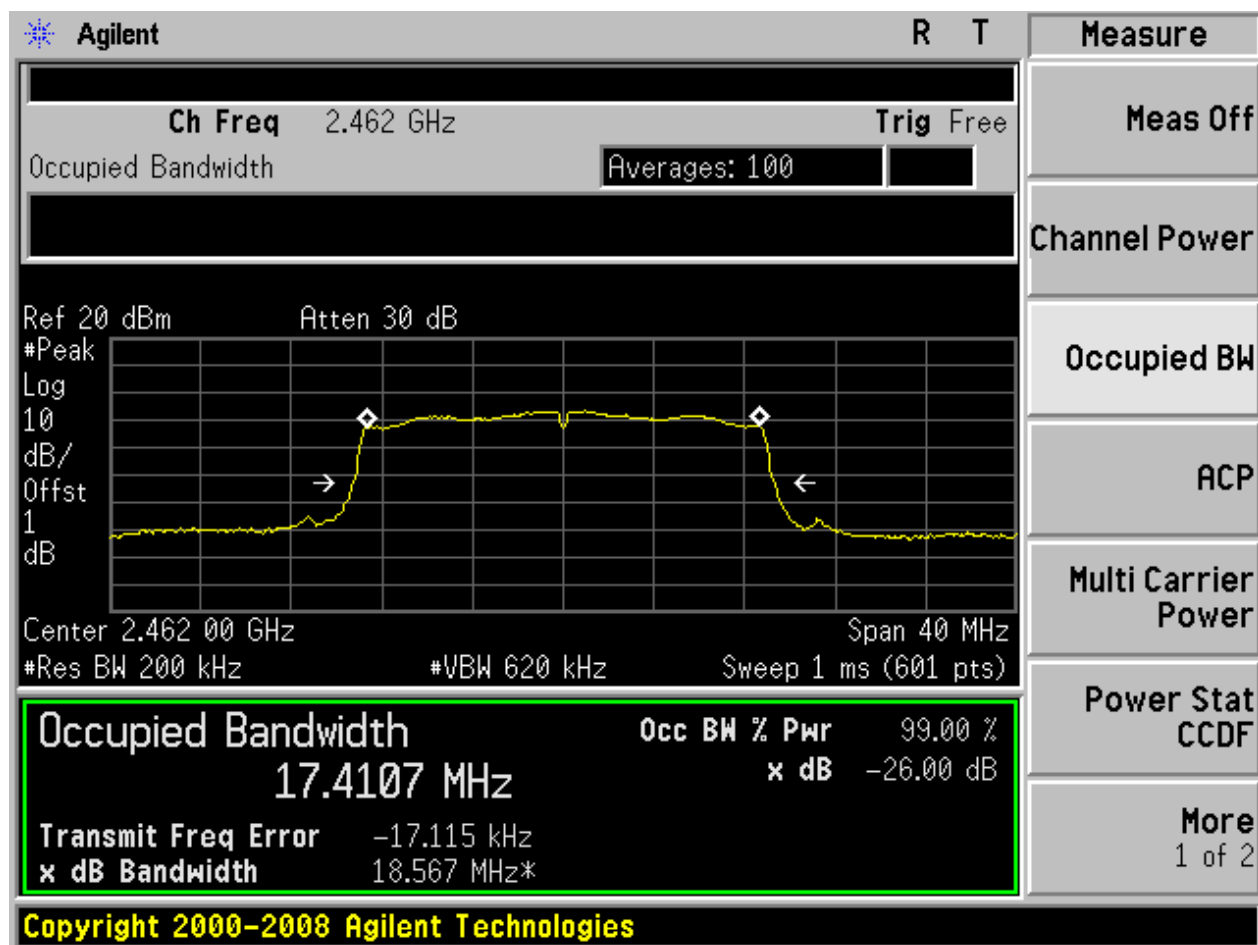
Multi Carrier Power

Power Stat CCDF

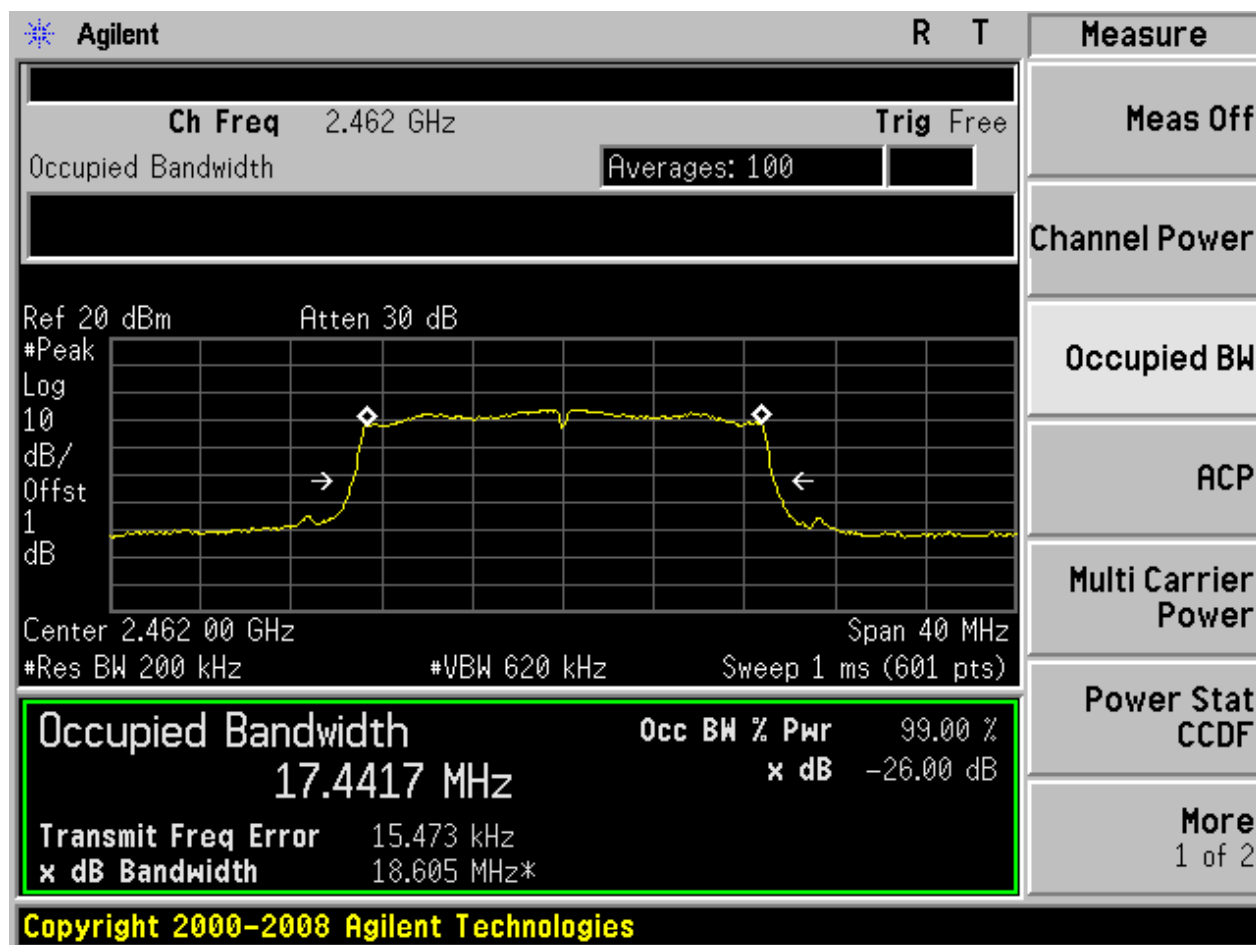
More 1 of 2

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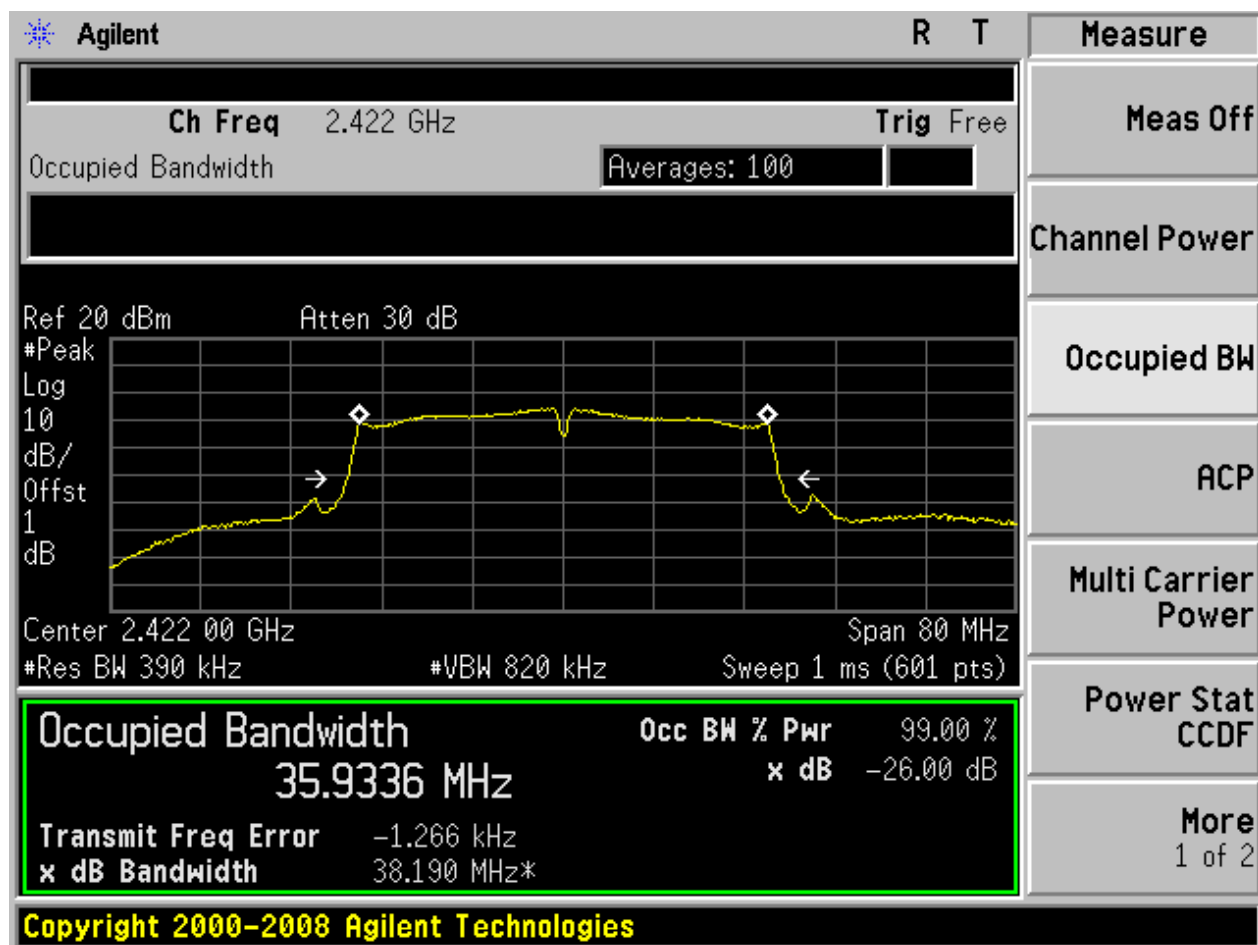
## 2.17 11N20m\_H@Ant 1



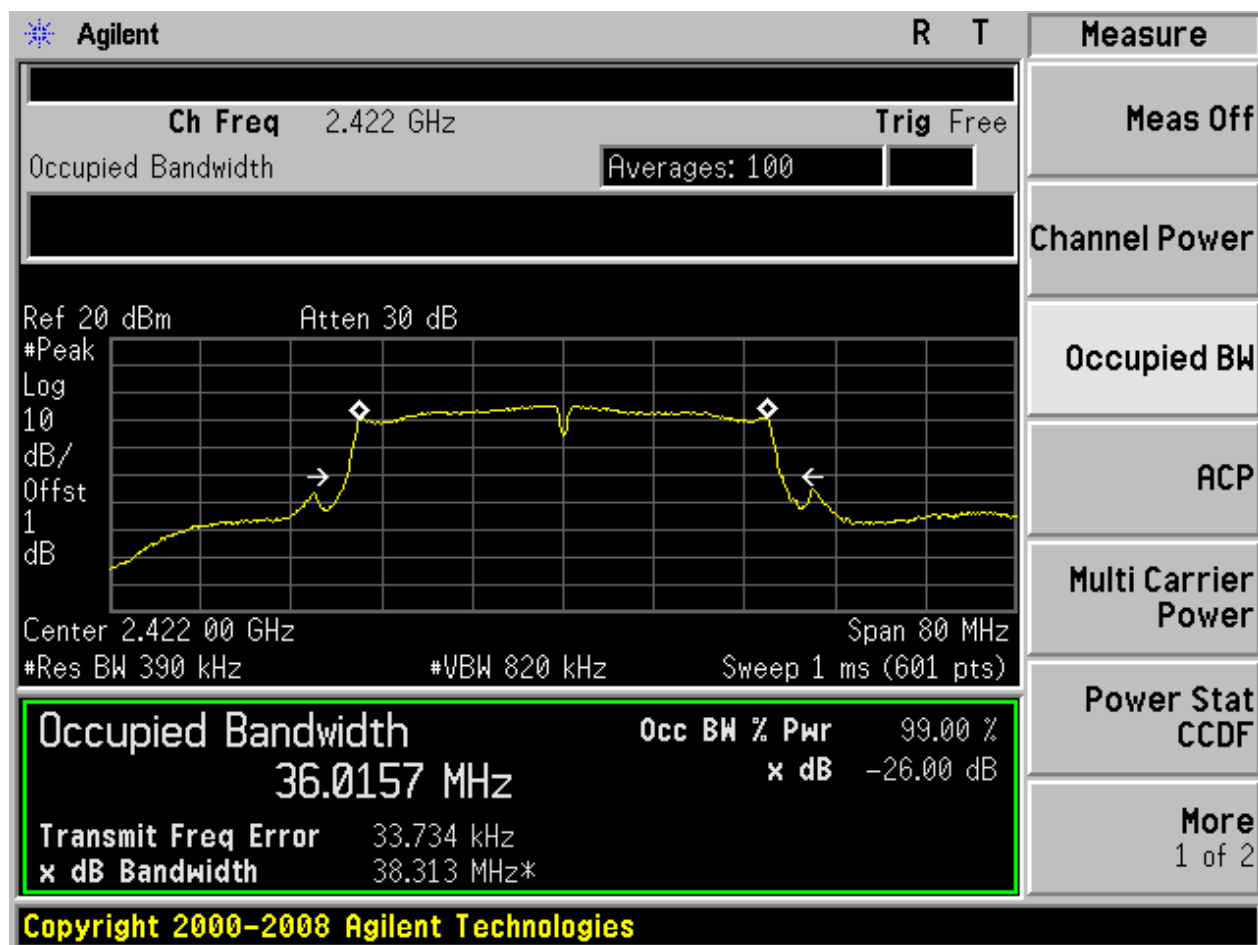
## 2.18 11N20m\_H@Ant 2



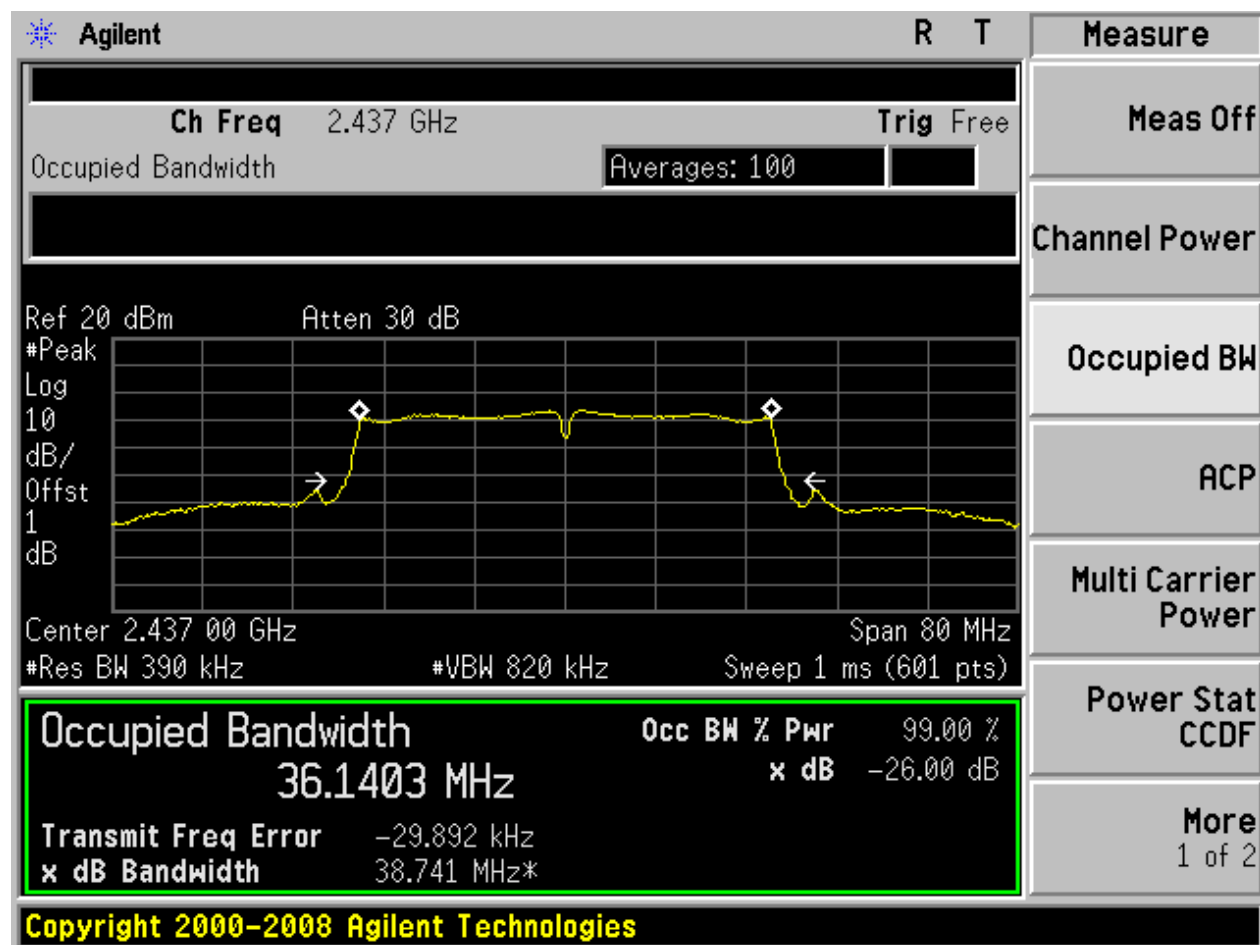
## 2.19 11N40\_L@Ant 1



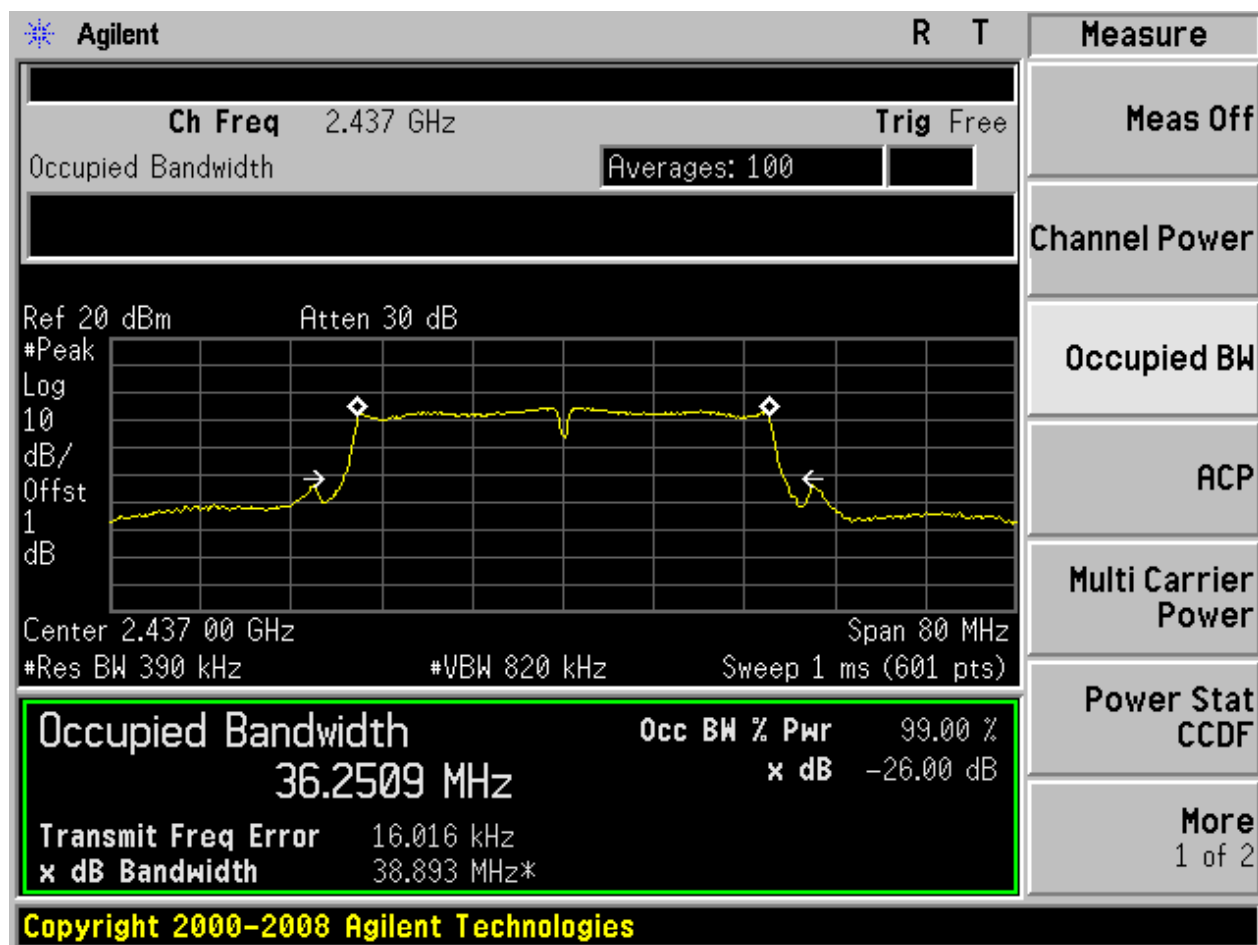
## 2.20 11N40\_L@Ant 2



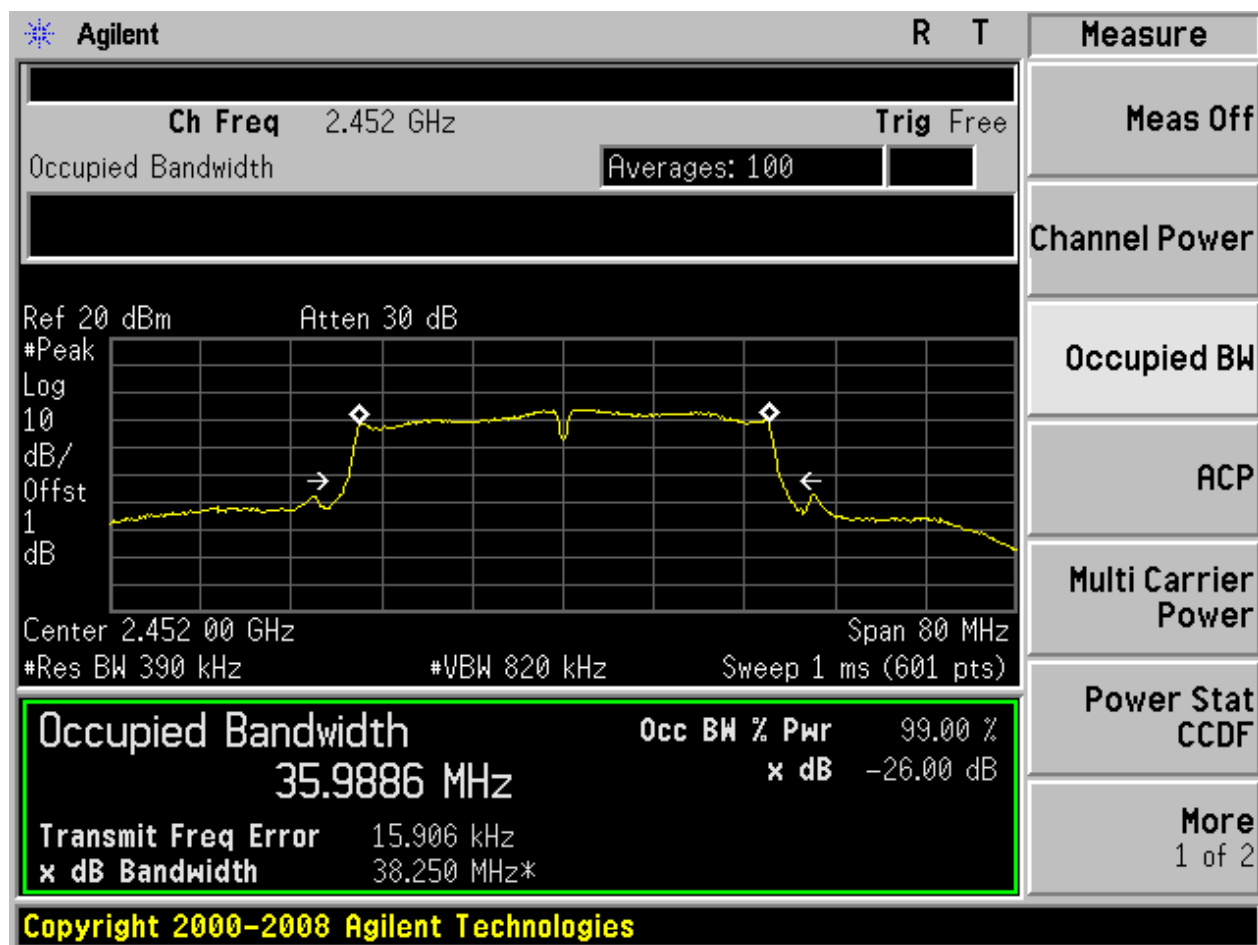
## 2.21 11N40\_M@Ant 1



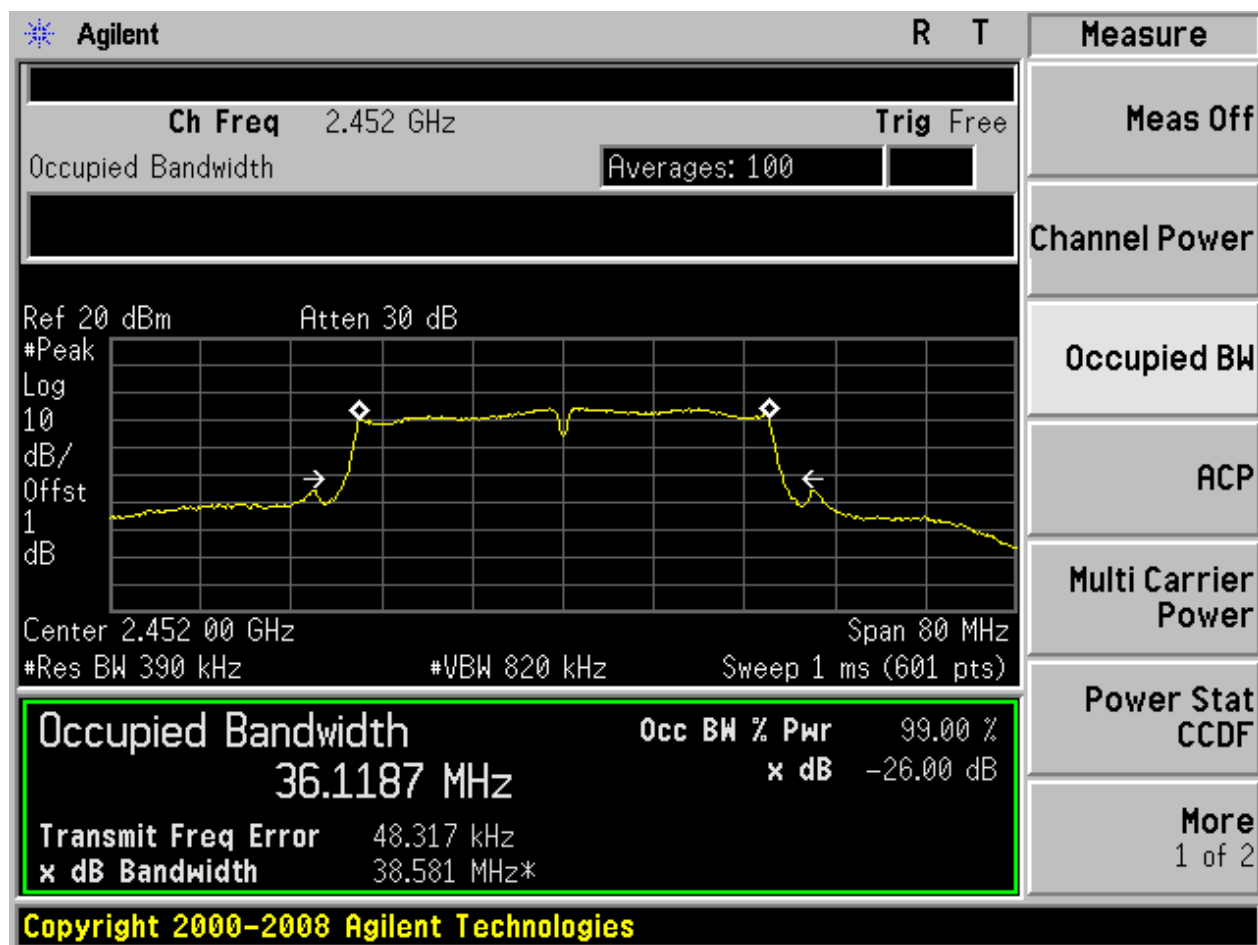
## 2.22 11N40\_M@Ant 2



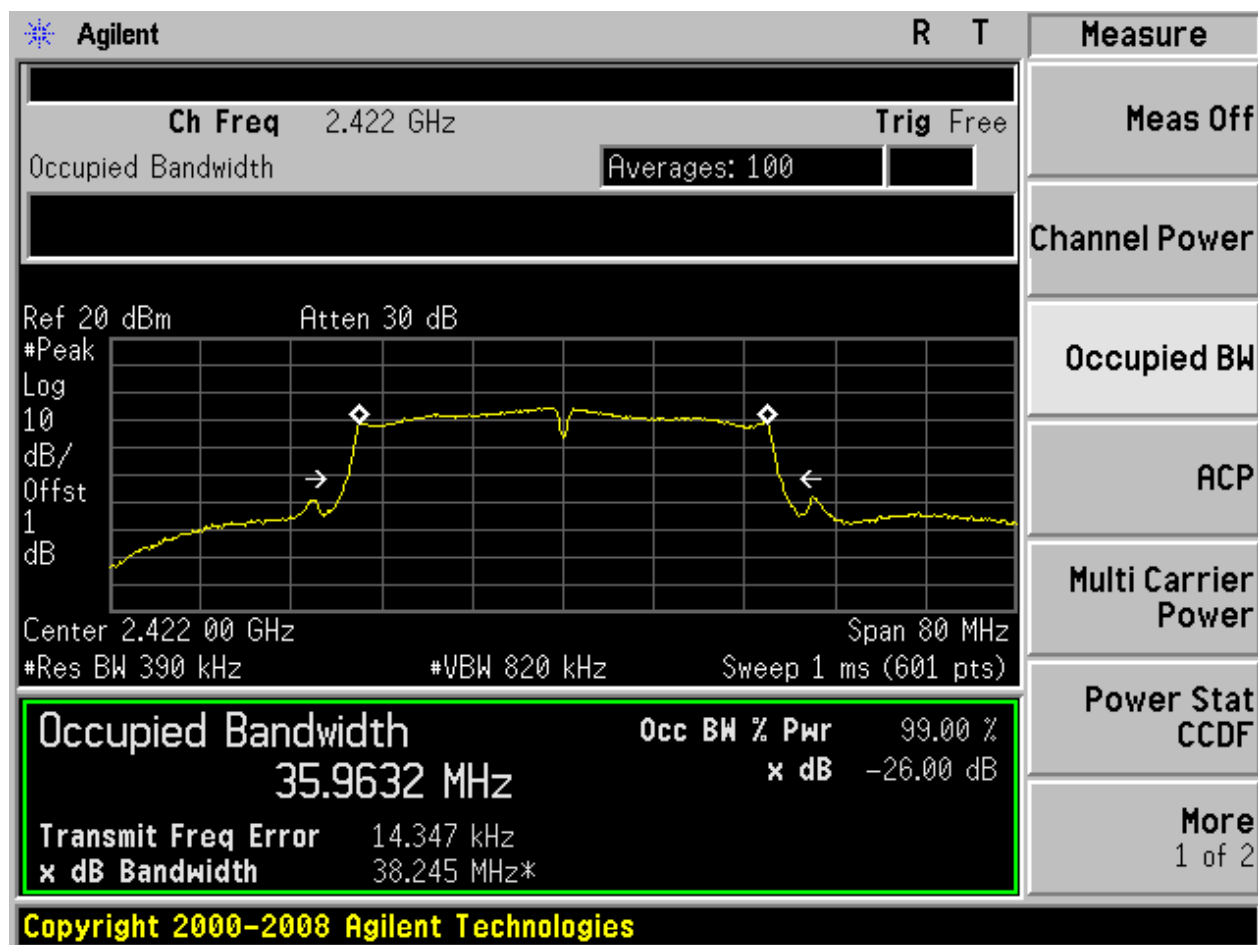
## 2.23 11N40\_H@Ant 1



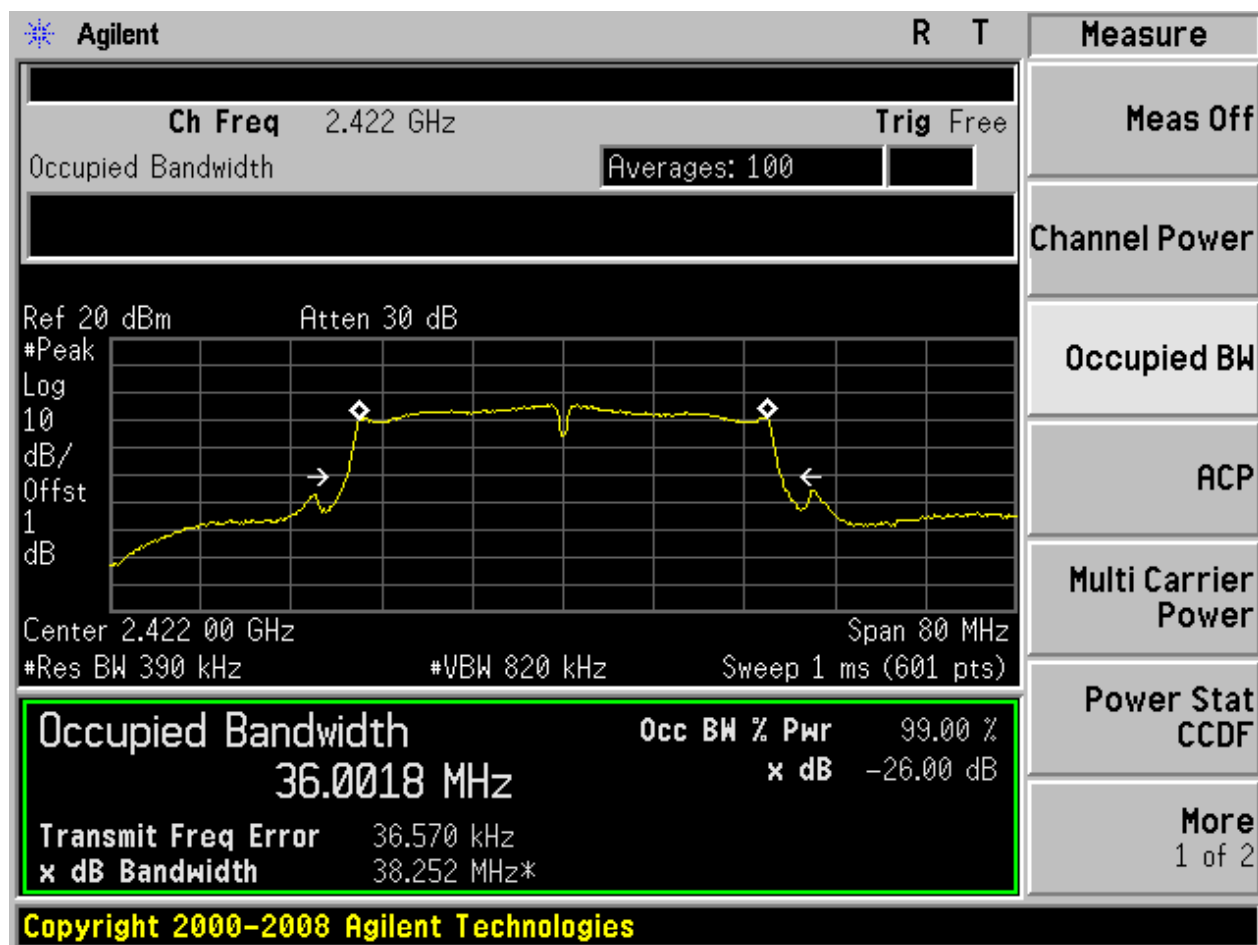
## 2.24 11N40\_H@Ant 2



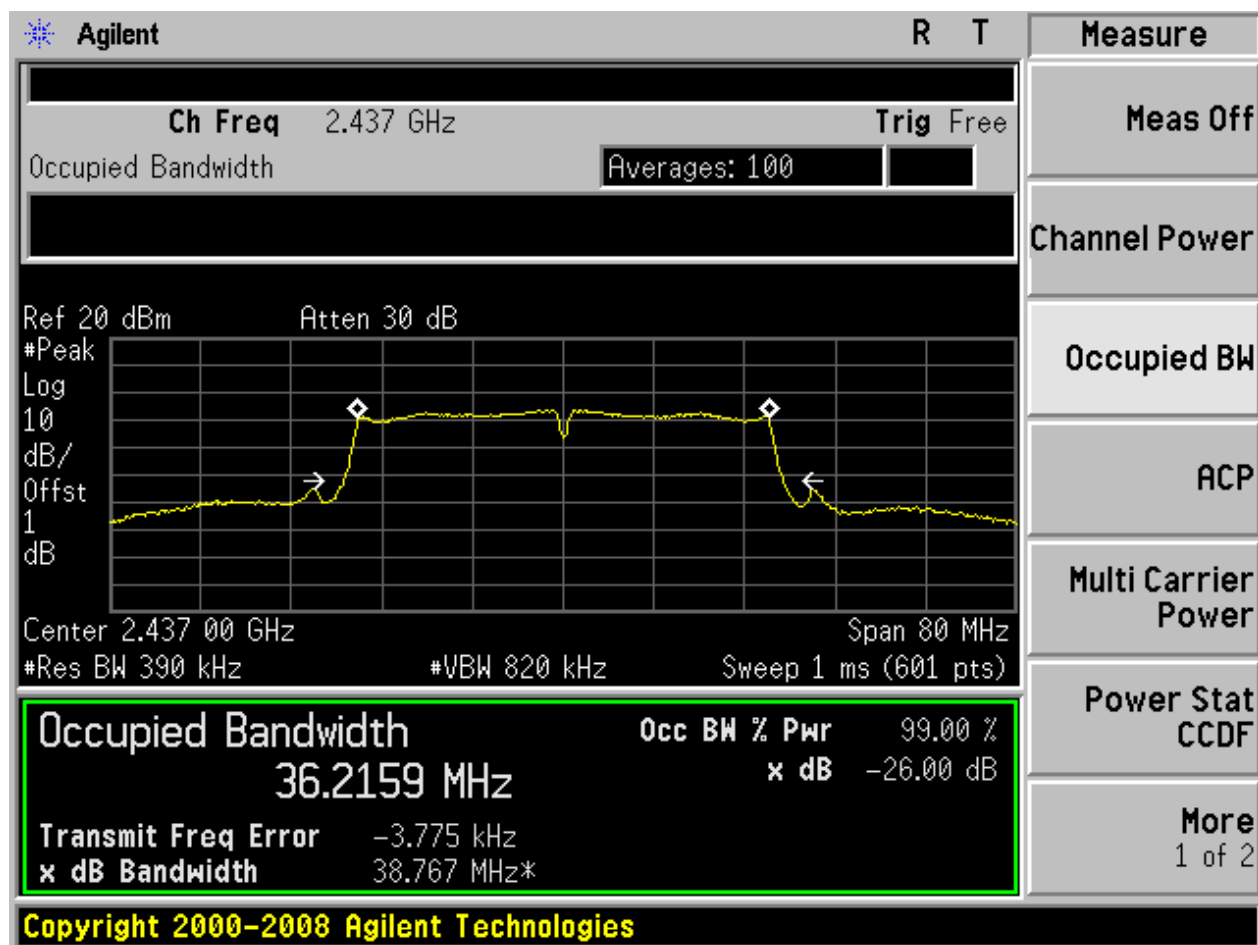
## 2.31 11N40m\_L@Ant 1



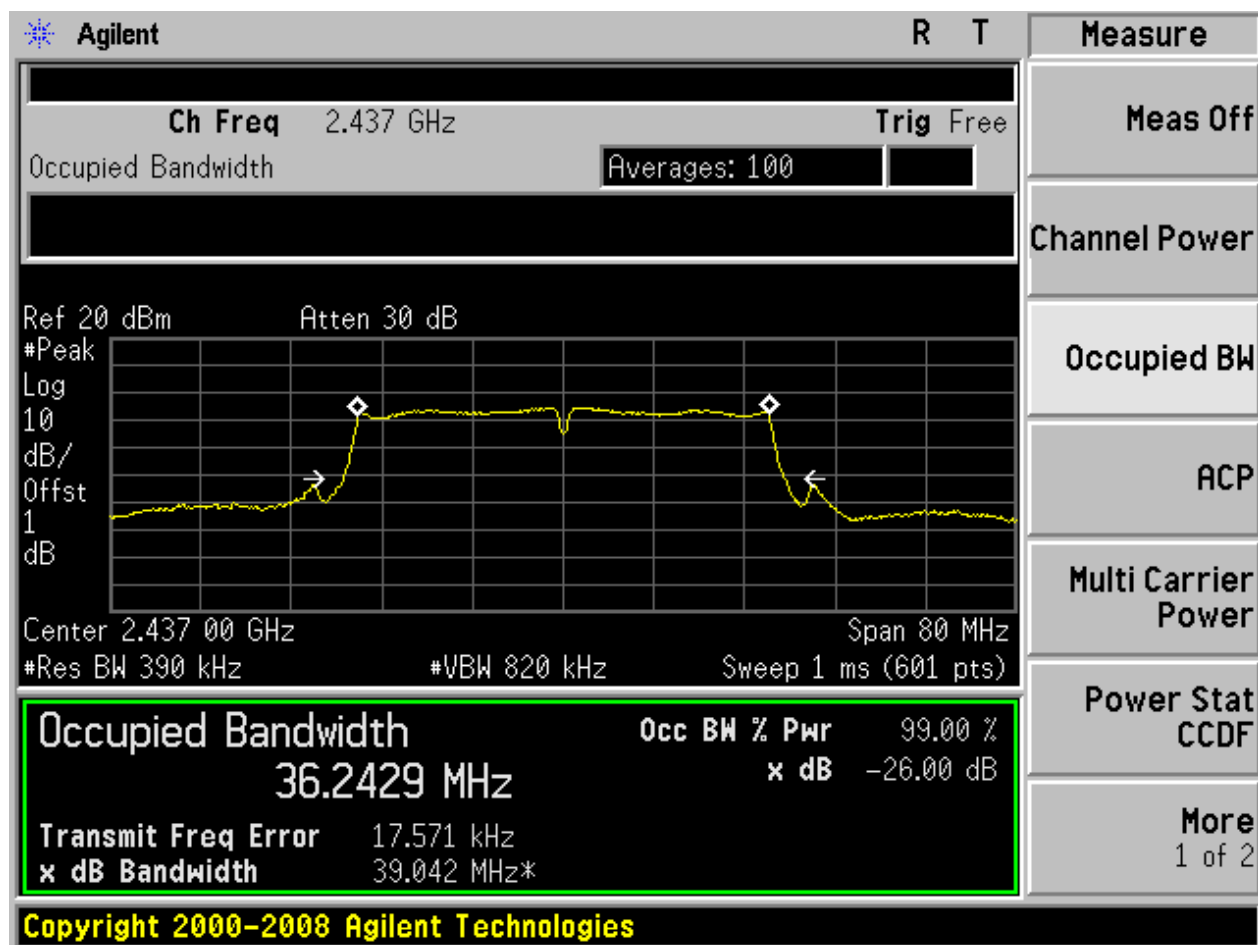
## 2.32 11N40m\_L@Ant 2



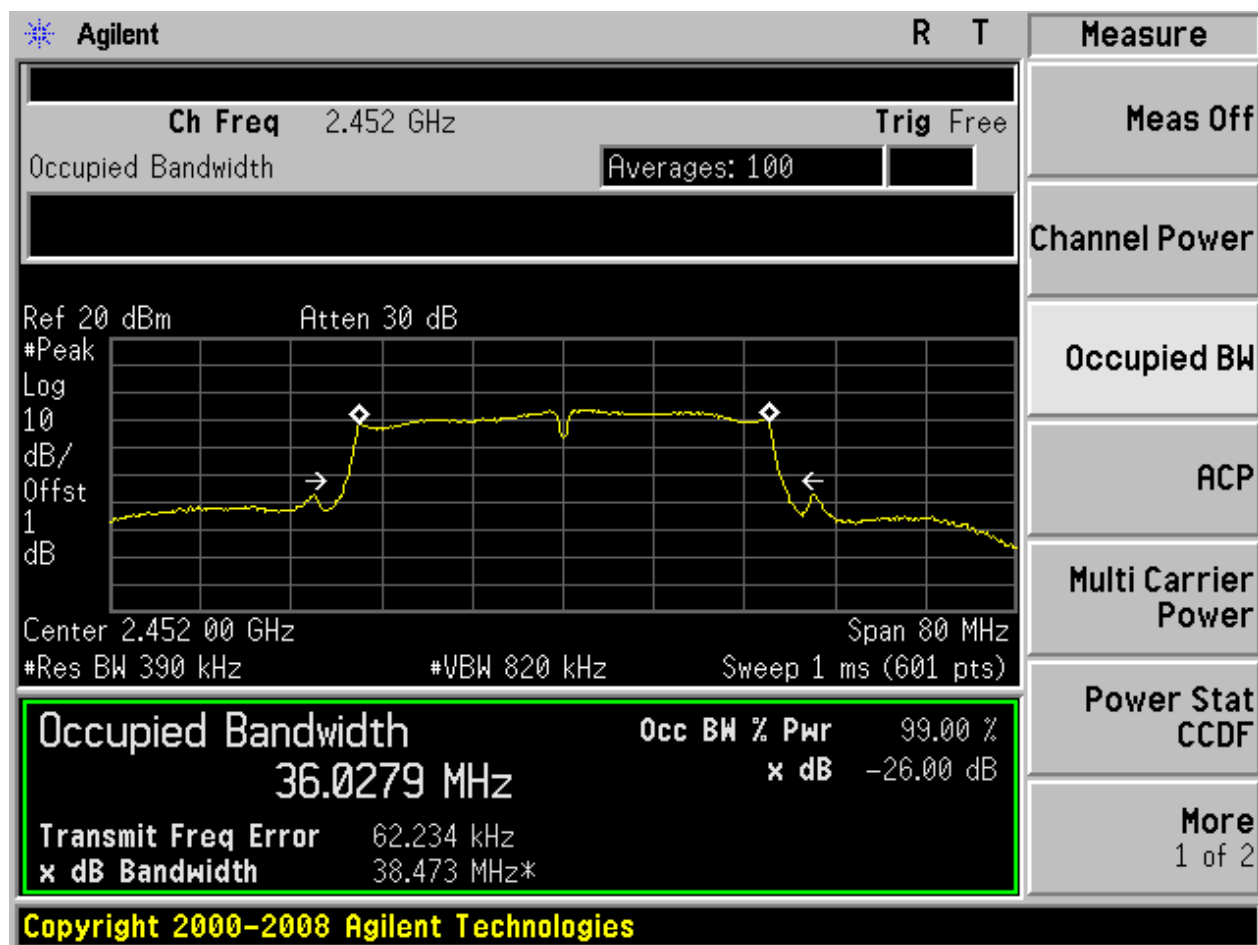
## 2.33 11N40m\_M@Ant 1



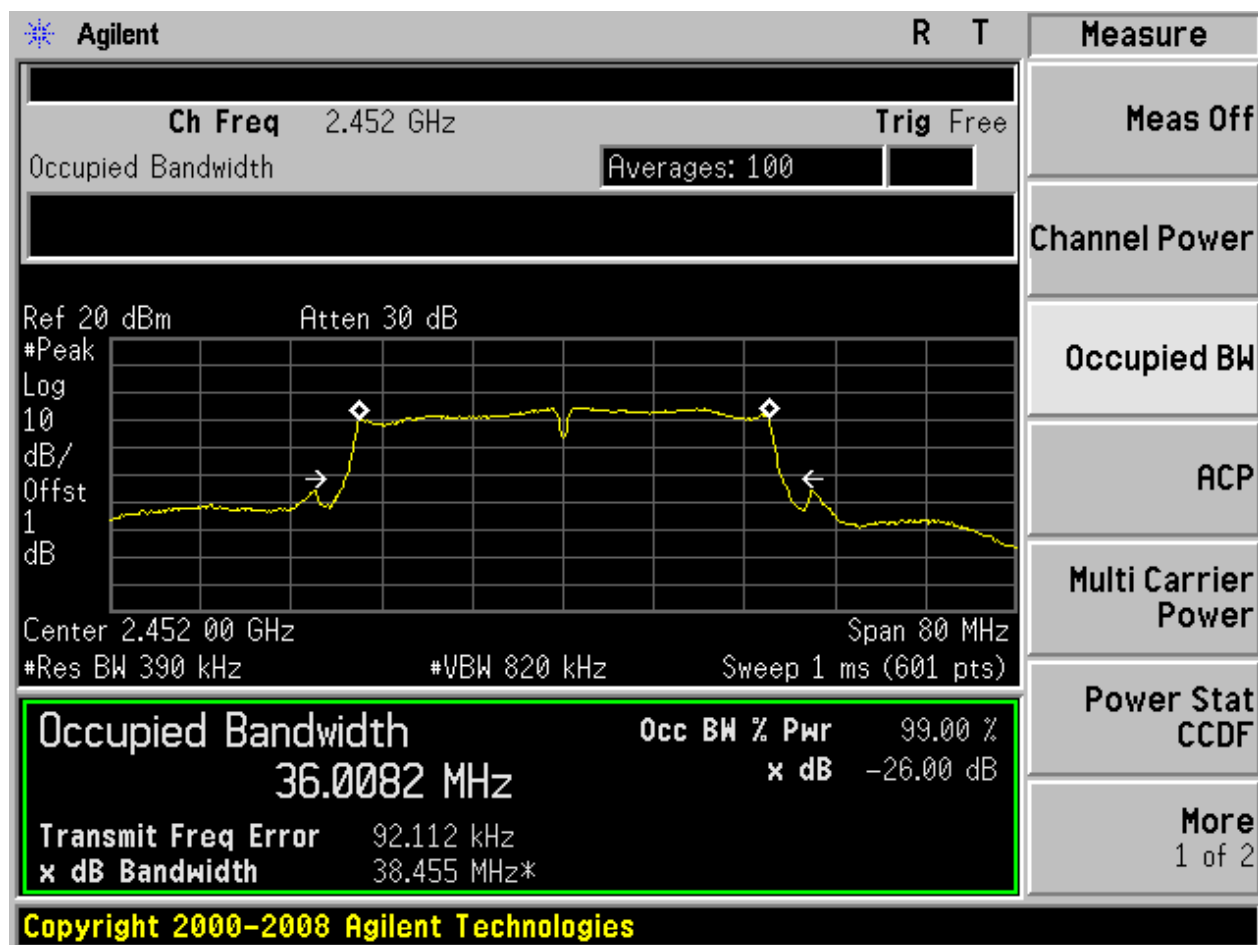
## 2.34 11N40m\_M@Ant 2



## 2.35 11N40m\_H@Ant 1



## 2.36 11N40m\_H@Ant 2



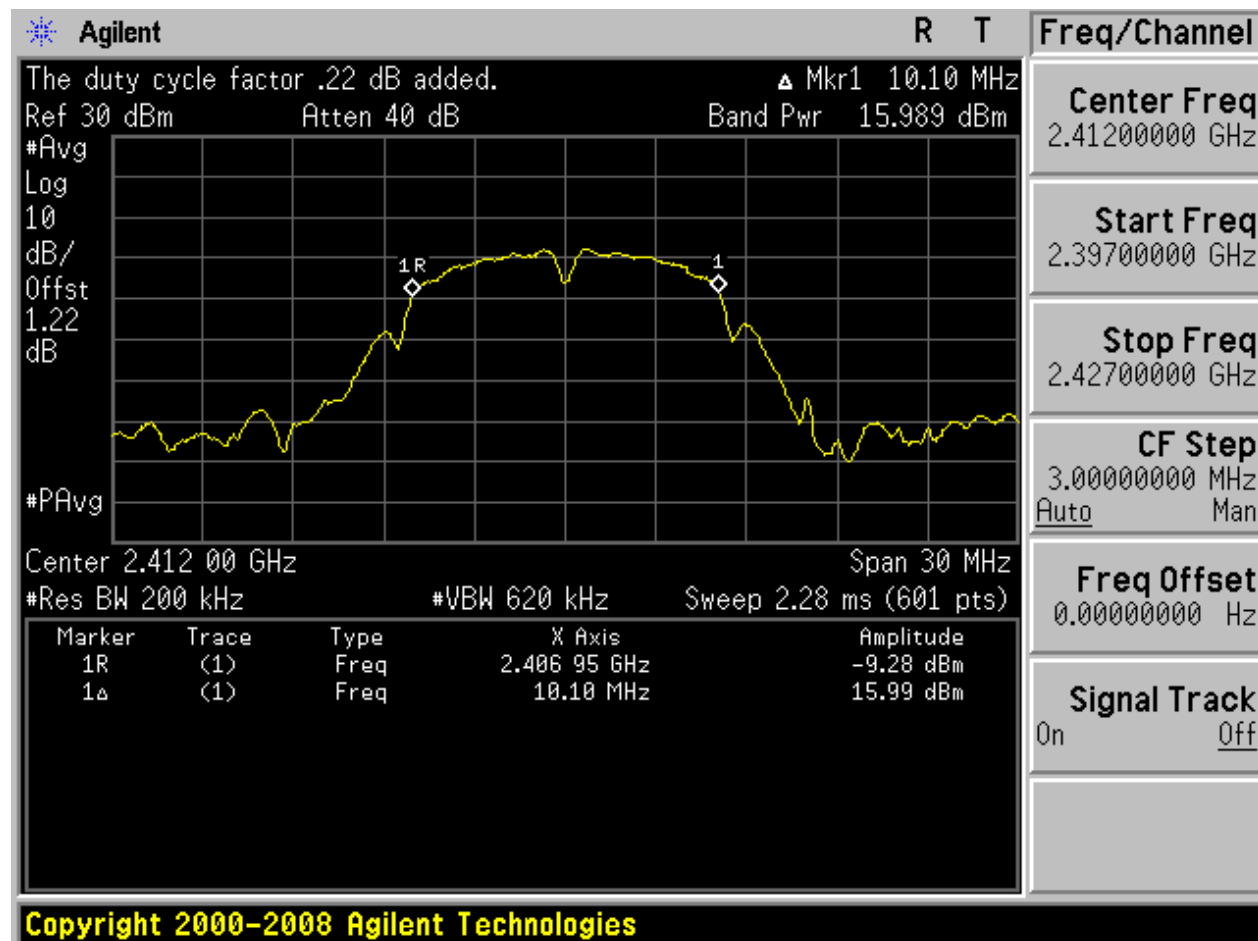
## Appendix C: Maximum Conducted Average Output Power

### Part I - Test Results

| Test Mode | Test Channel | Frequency[MHz] | Ant   | Power[dBm] | Verdict |
|-----------|--------------|----------------|-------|------------|---------|
| 11B       | L            | 2412           | Ant 1 | 15.99      | pass    |
| 11B       | L            | 2412           | Ant 2 | 16.73      | pass    |
| 11B       | M            | 2437           | Ant 1 | 16.56      | pass    |
| 11B       | M            | 2437           | Ant 2 | 17.48      | pass    |
| 11B       | H            | 2462           | Ant 1 | 15.71      | pass    |
| 11B       | H            | 2462           | Ant 2 | 16.38      | pass    |
| 11G       | L            | 2412           | Ant 1 | 11.49      | pass    |
| 11G       | L            | 2412           | Ant 2 | 12.50      | pass    |
| 11G       | M            | 2437           | Ant 1 | 12.60      | pass    |
| 11G       | M            | 2437           | Ant 2 | 13.26      | pass    |
| 11G       | H            | 2462           | Ant 1 | 11.53      | pass    |
| 11G       | H            | 2462           | Ant 2 | 12.28      | pass    |
| 11N20     | L            | 2412           | Ant 1 | 8.63       | pass    |
| 11N20     | L            | 2412           | Ant 2 | 10.20      | pass    |
| 11N20     | M            | 2437           | Ant 1 | 9.37       | pass    |
| 11N20     | M            | 2437           | Ant 2 | 10.68      | pass    |
| 11N20     | H            | 2462           | Ant 1 | 8.56       | pass    |
| 11N20     | H            | 2462           | Ant 2 | 9.63       | pass    |
| 11N20m    | L            | 2412           | Ant 1 | 8.87       | pass    |
| 11N20m    | L            | 2412           | Ant 2 | 9.74       | pass    |
| 11N20m    | M            | 2437           | Ant 1 | 9.77       | pass    |
| 11N20m    | M            | 2437           | Ant 2 | 10.50      | pass    |
| 11N20m    | H            | 2462           | Ant 1 | 8.59       | pass    |
| 11N20m    | H            | 2462           | Ant 2 | 9.30       | pass    |
| 11N40     | L            | 2422           | Ant 1 | 8.54       | pass    |
| 11N40     | L            | 2422           | Ant 2 | 10.24      | pass    |
| 11N40     | M            | 2437           | Ant 1 | 8.84       | pass    |
| 11N40     | M            | 2437           | Ant 2 | 10.06      | pass    |
| 11N40     | H            | 2452           | Ant 1 | 8.55       | pass    |
| 11N40     | H            | 2452           | Ant 2 | 9.60       | pass    |
| 11N40m    | L            | 2422           | Ant 1 | 8.80       | pass    |
| 11N40m    | L            | 2422           | Ant 2 | 10.02      | pass    |
| 11N40m    | M            | 2437           | Ant 1 | 9.09       | pass    |
| 11N40m    | M            | 2437           | Ant 2 | 10.25      | pass    |
| 11N40m    | H            | 2452           | Ant 1 | 8.60       | pass    |
| 11N40m    | H            | 2452           | Ant 2 | 9.58       | pass    |

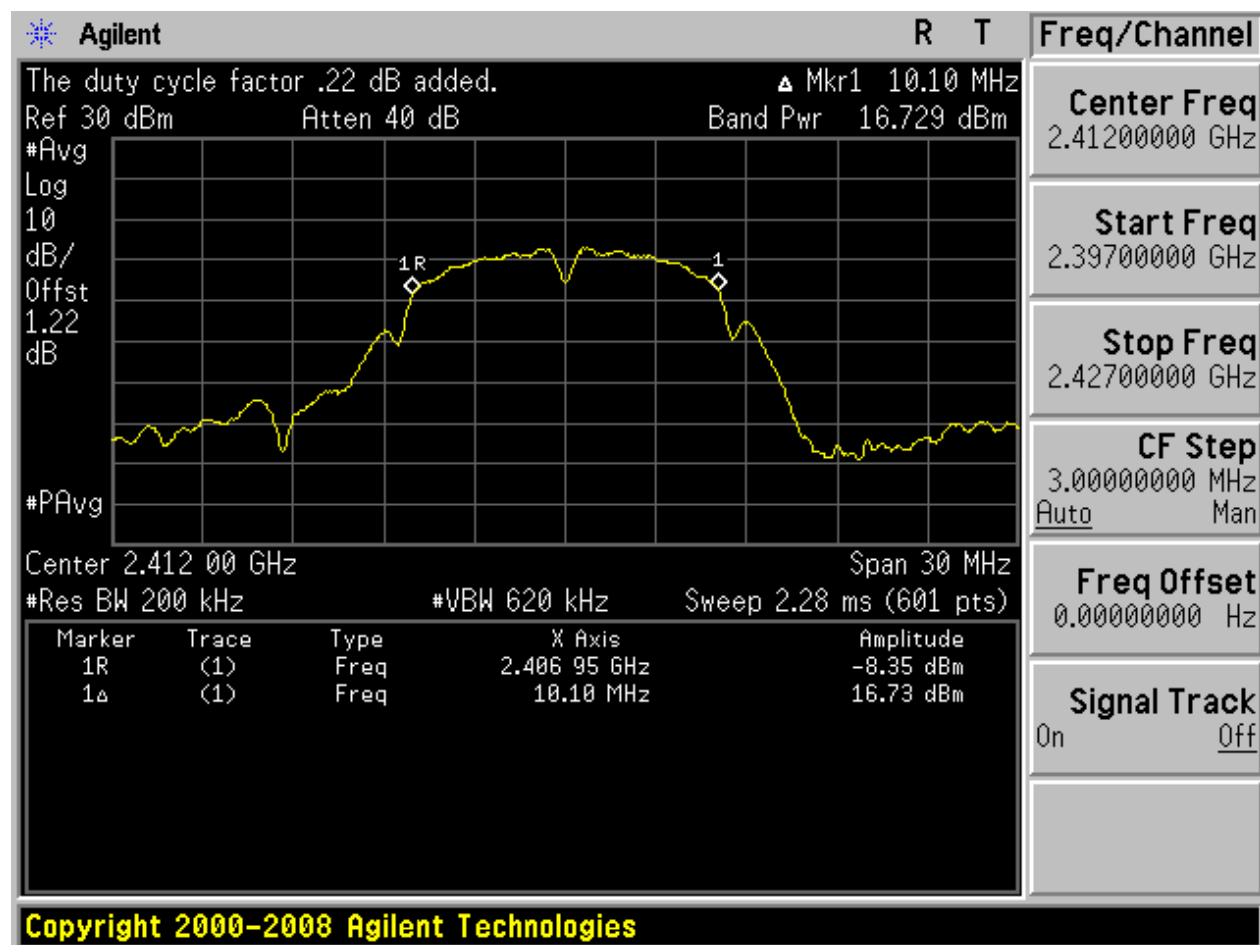
## Part II - Test Plots

### 2.1 11B\_L@Ant 1



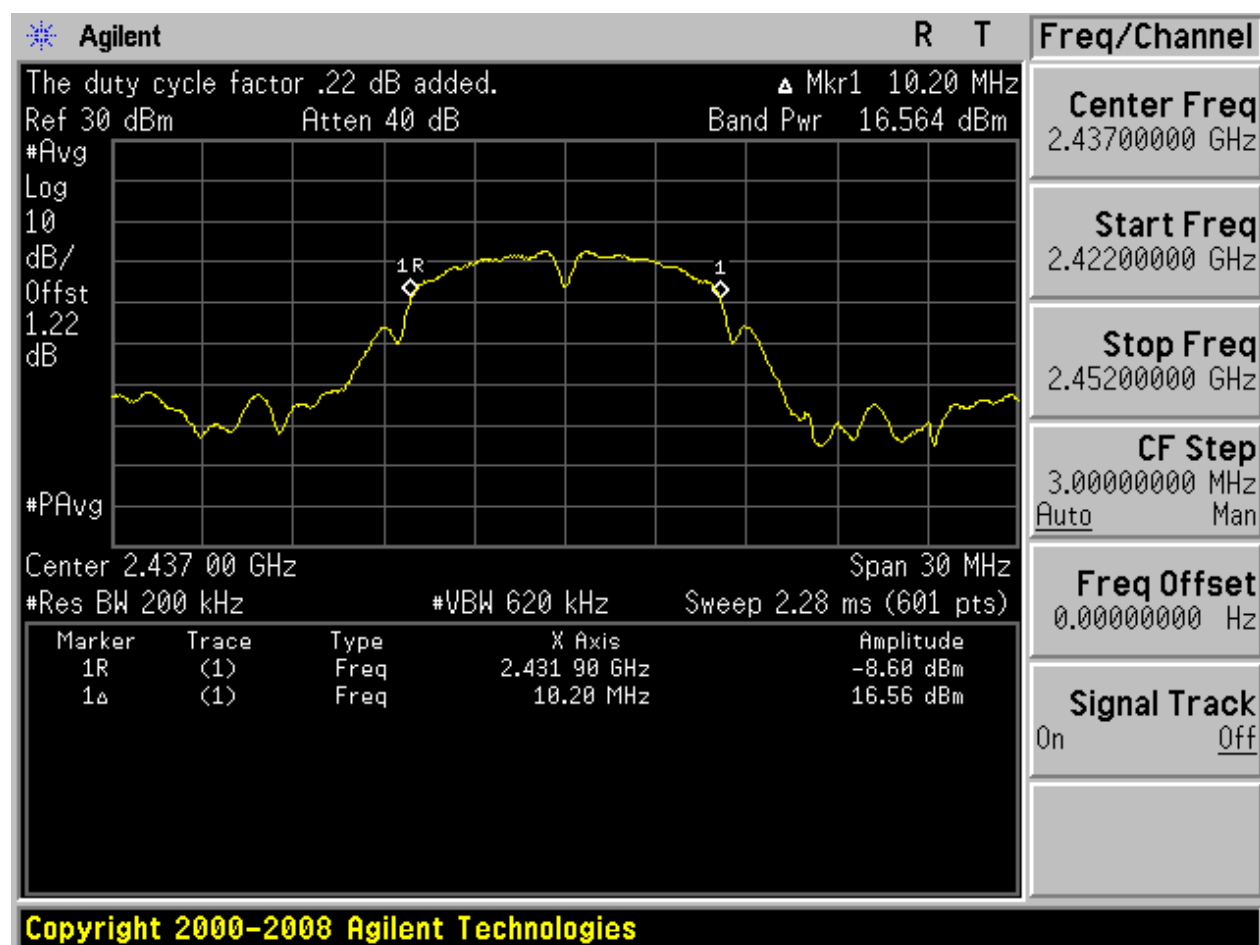


## 2.2 11B\_L@Ant 2

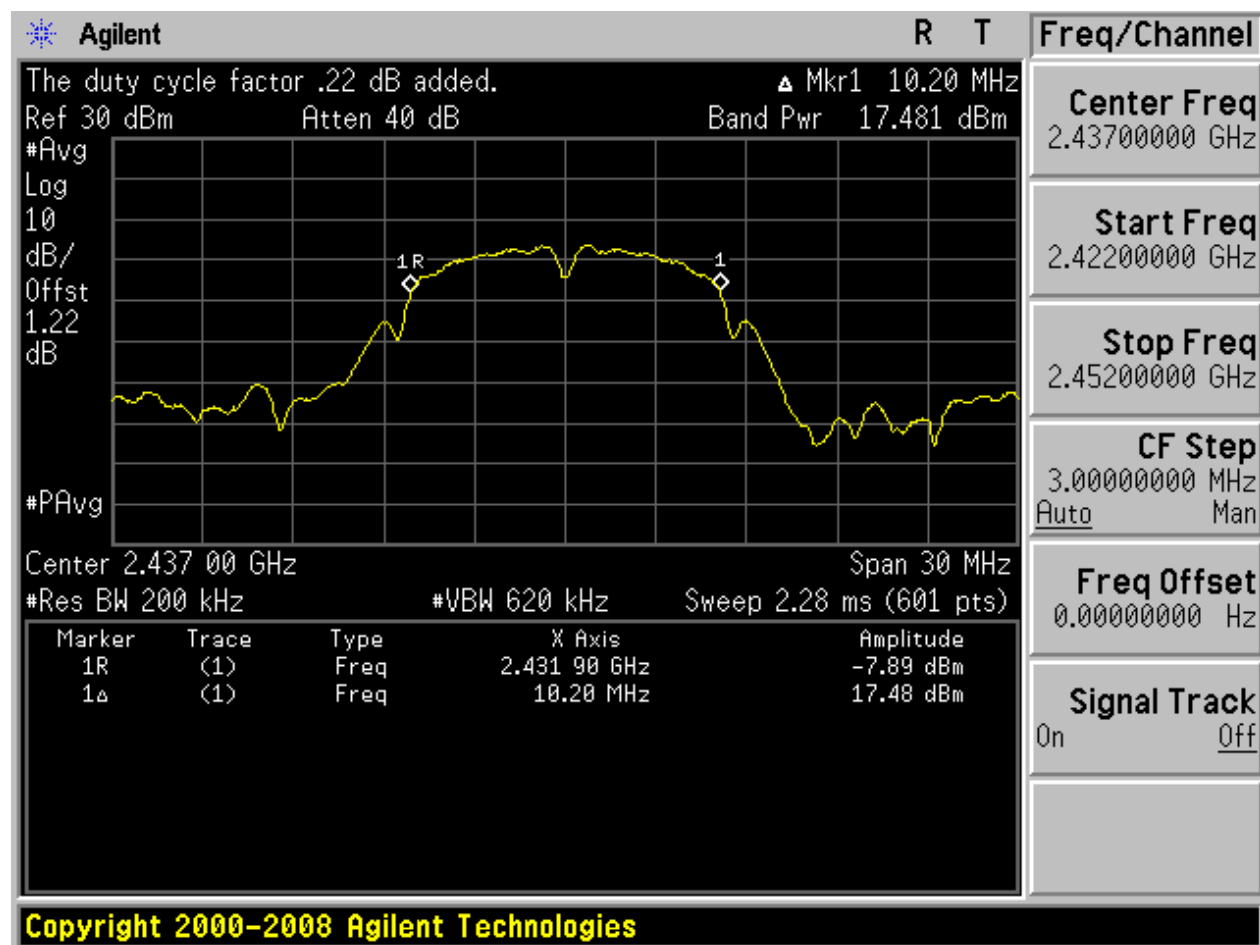




## 2.3 11B\_M@Ant 1

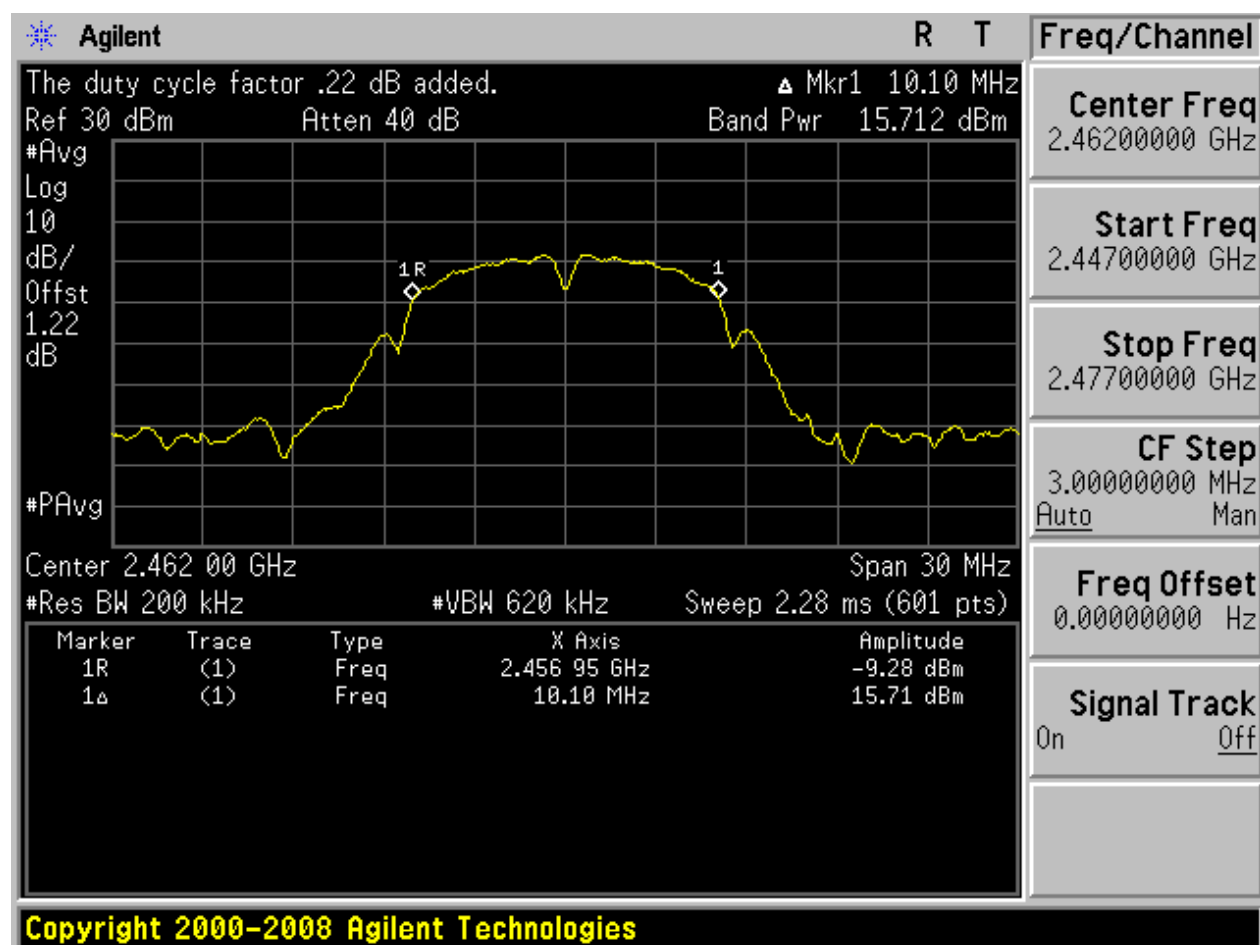


## 2.4 11B\_M@Ant 2



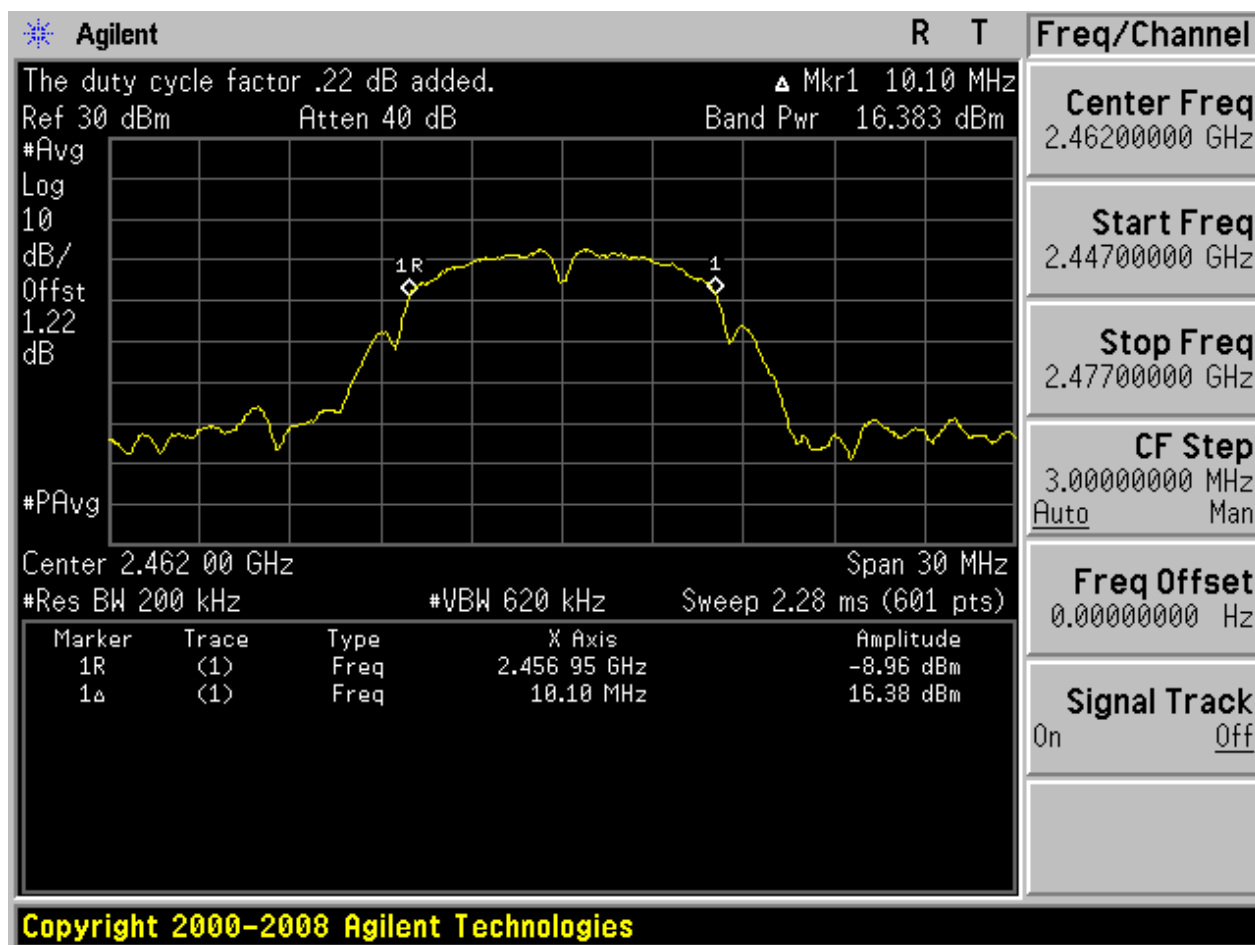


## 2.5 11B\_H@Ant 1



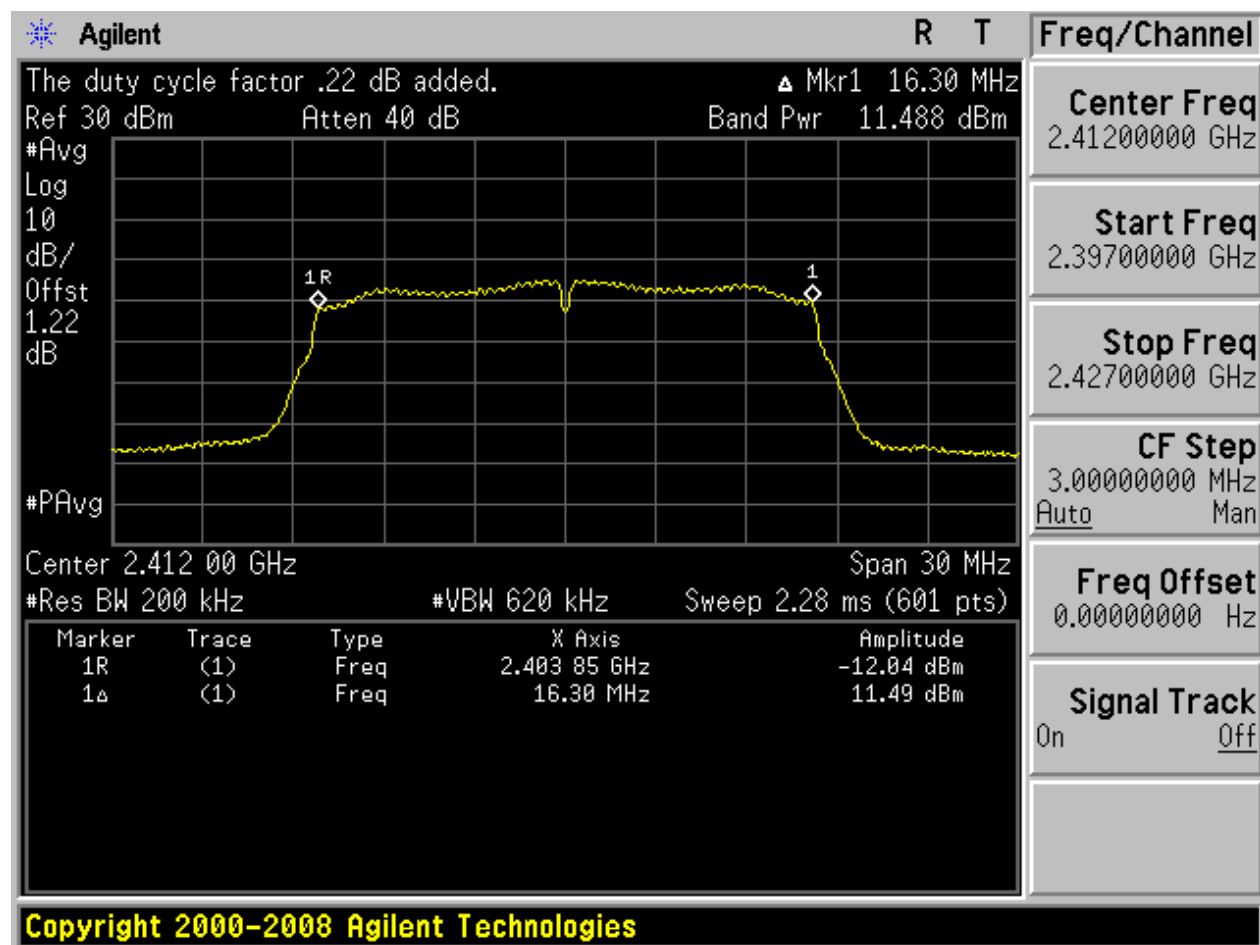


## 2.6 11B\_H@Ant 2



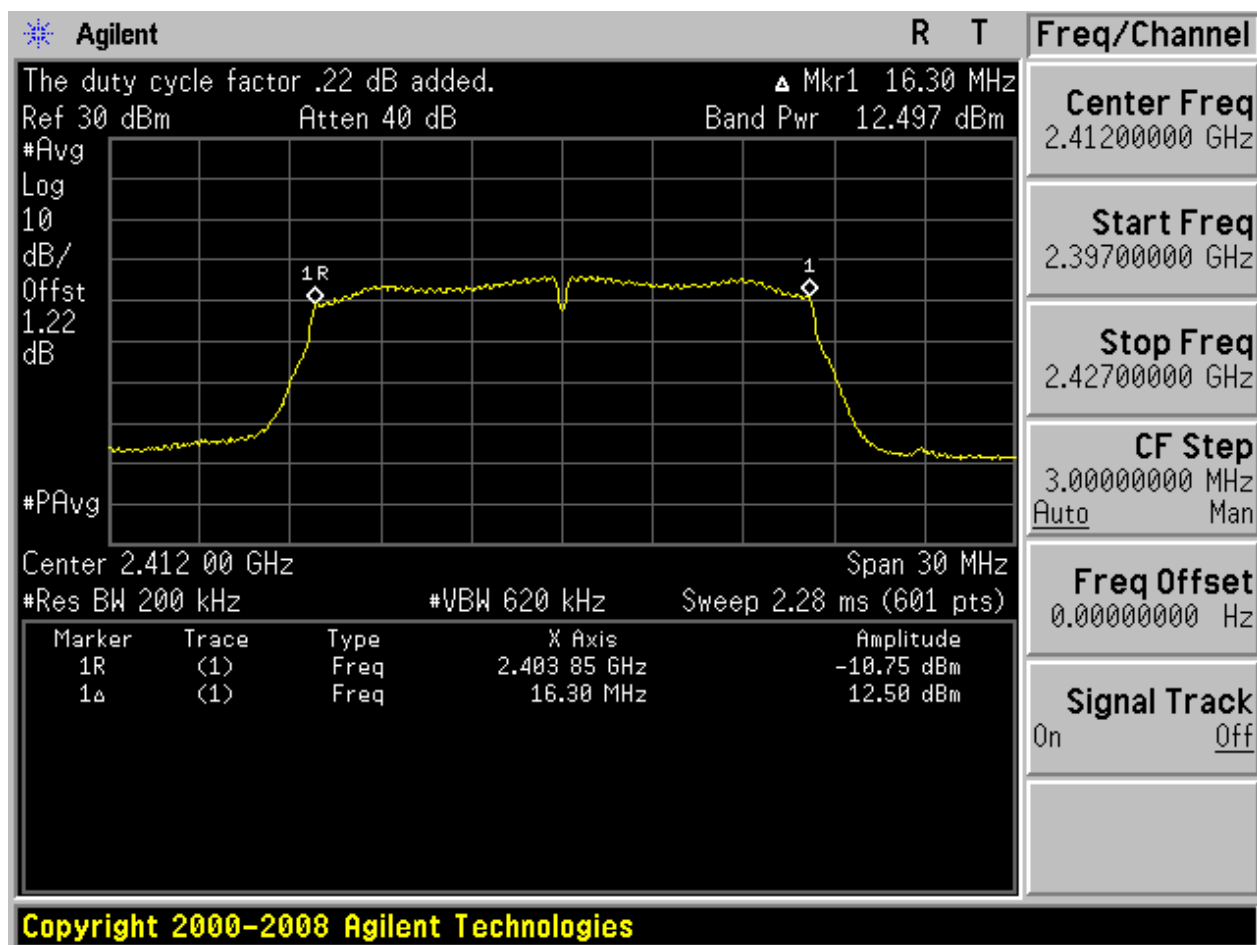


## 2.7 11G\_L@Ant 1



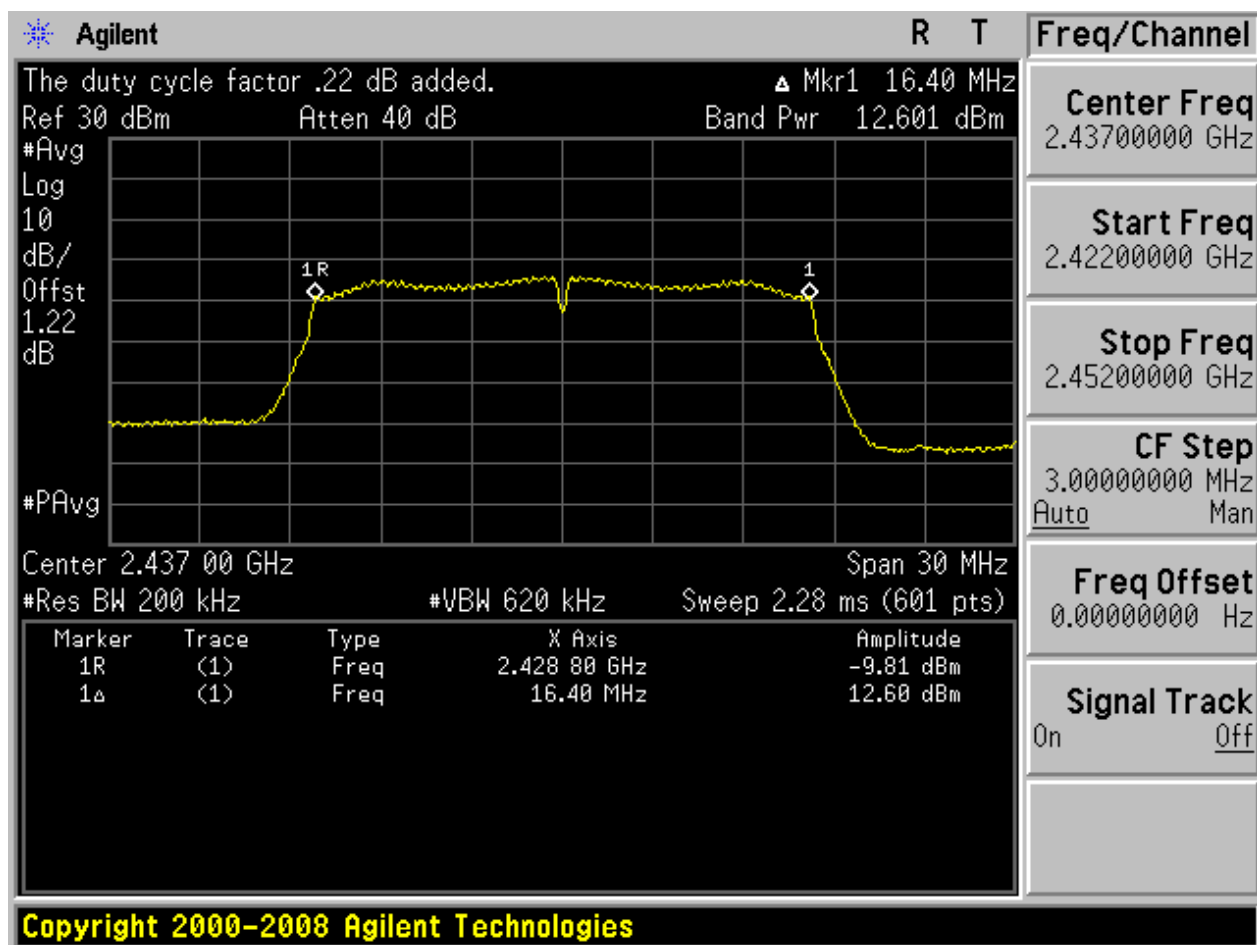


## 2.8 11G\_L@Ant 2



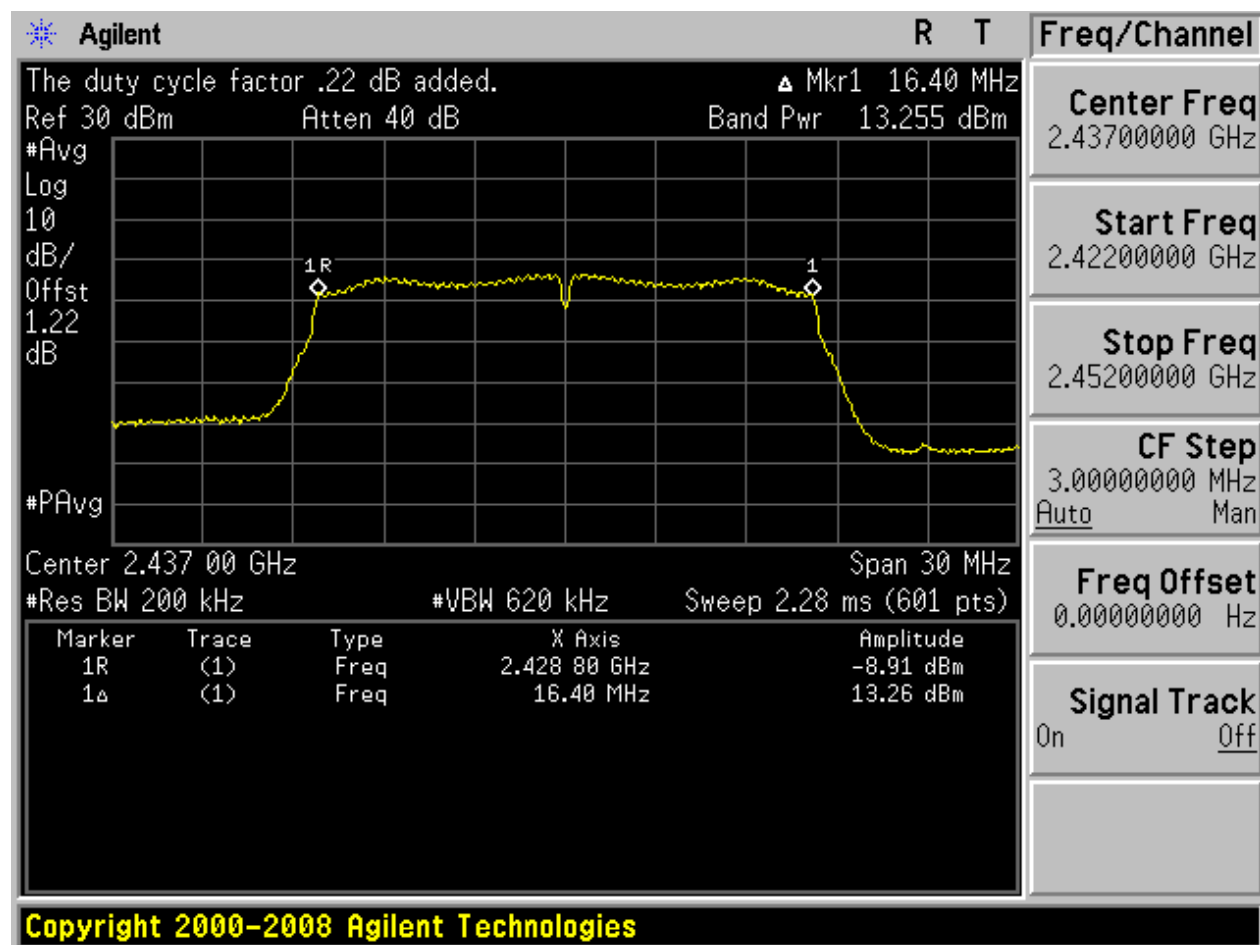


## 2.9 11G\_M@Ant 1



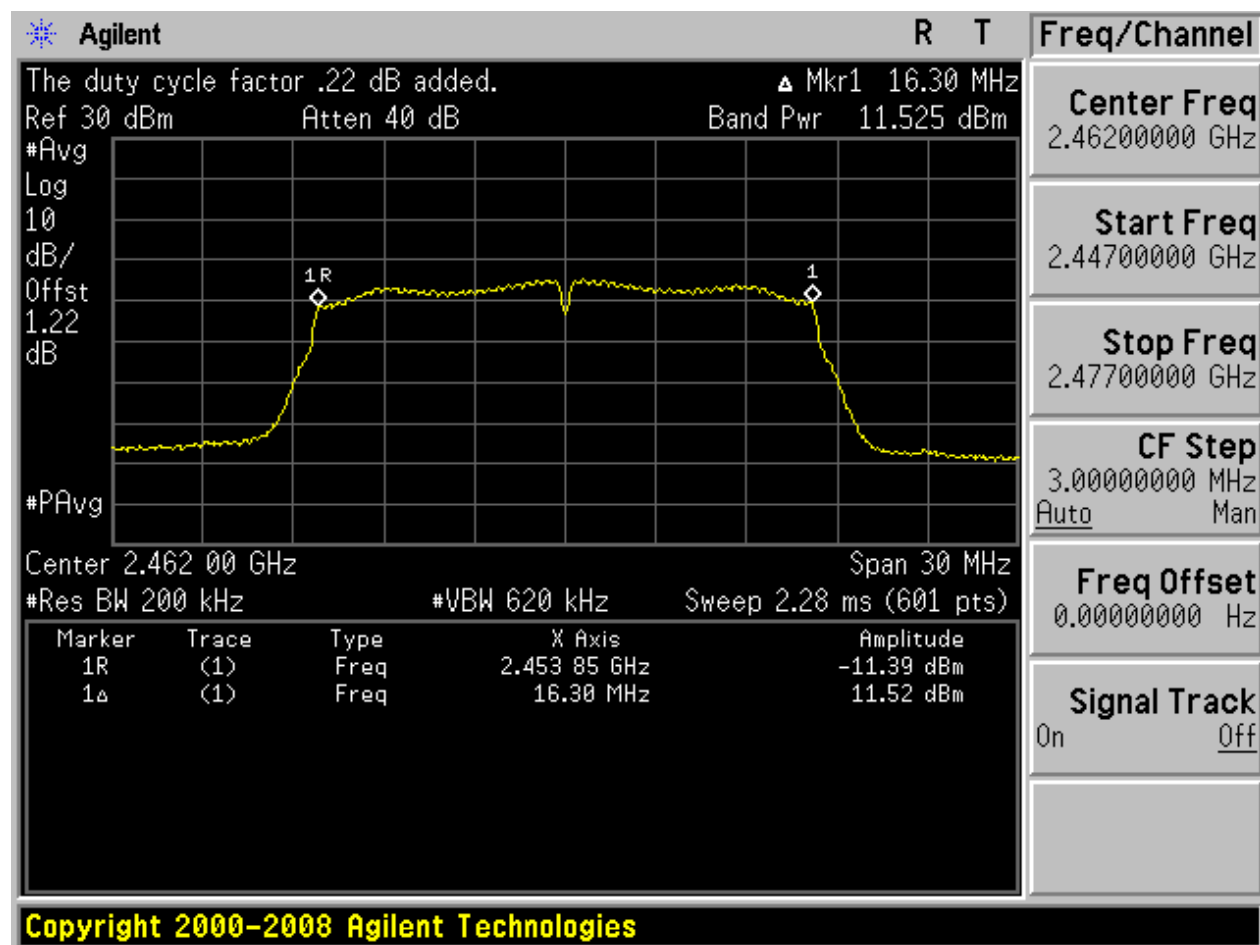


## 2.10 11G\_M@Ant 2



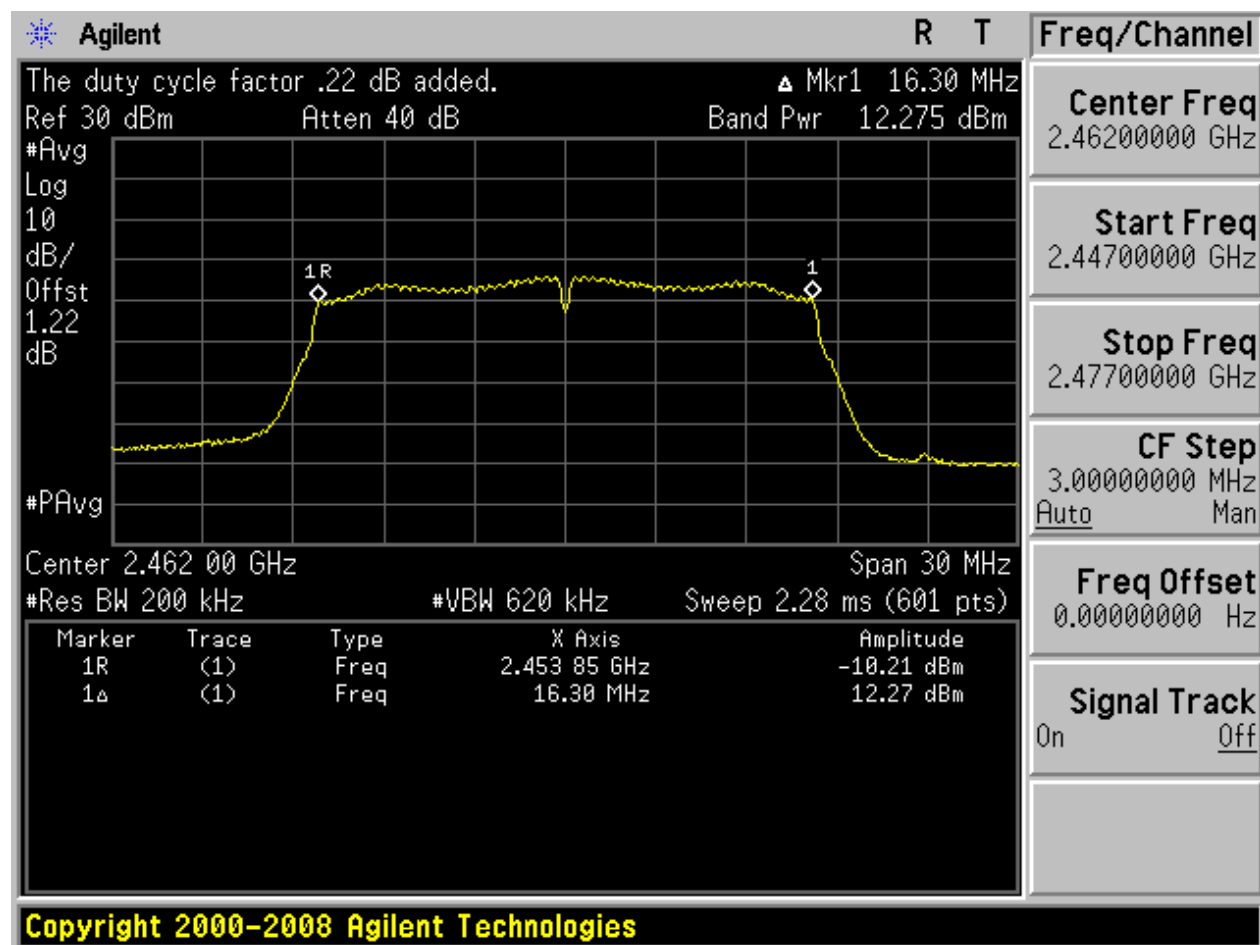


## 2.11 11G\_H@Ant 1



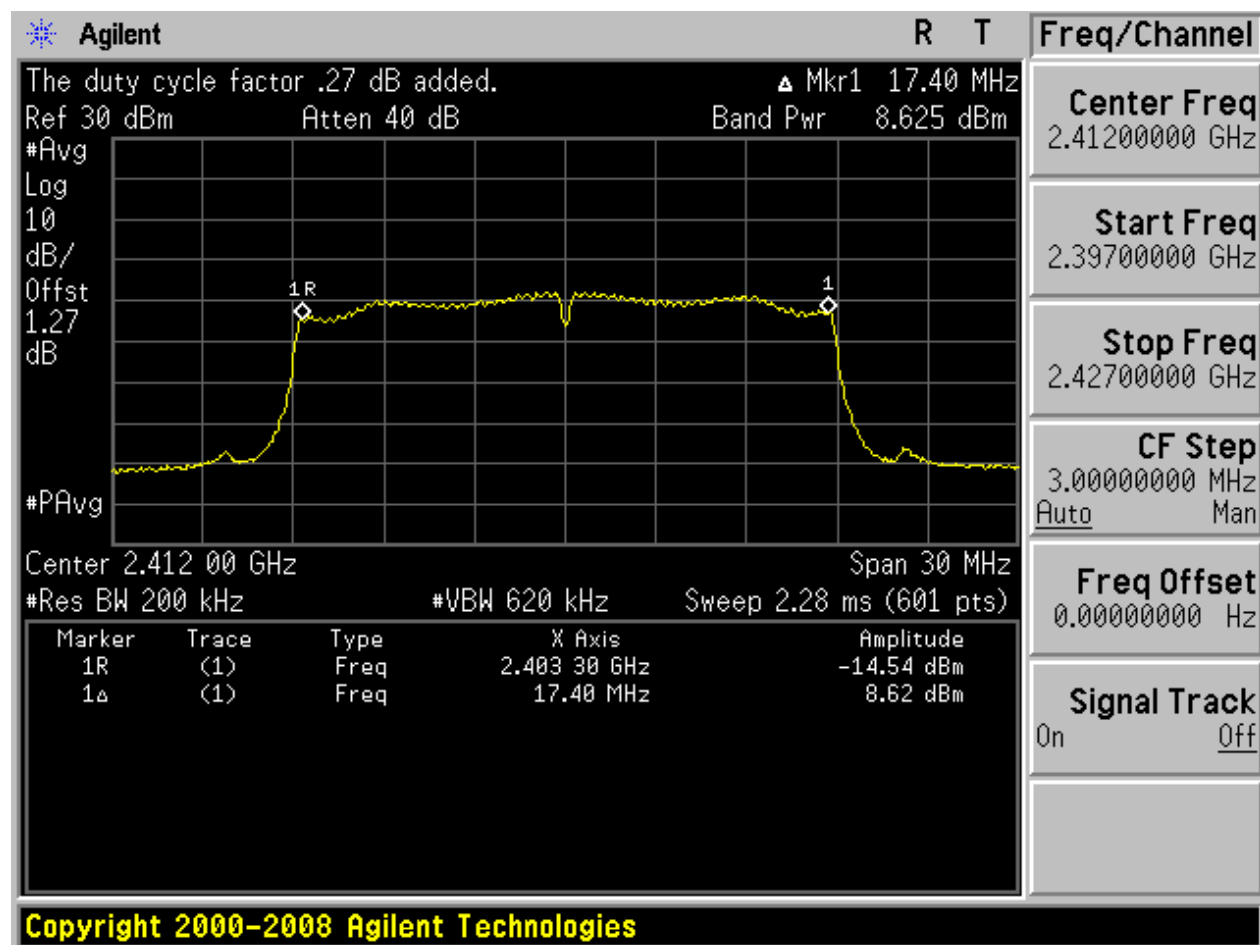


## 2.12 11G\_H@Ant 2



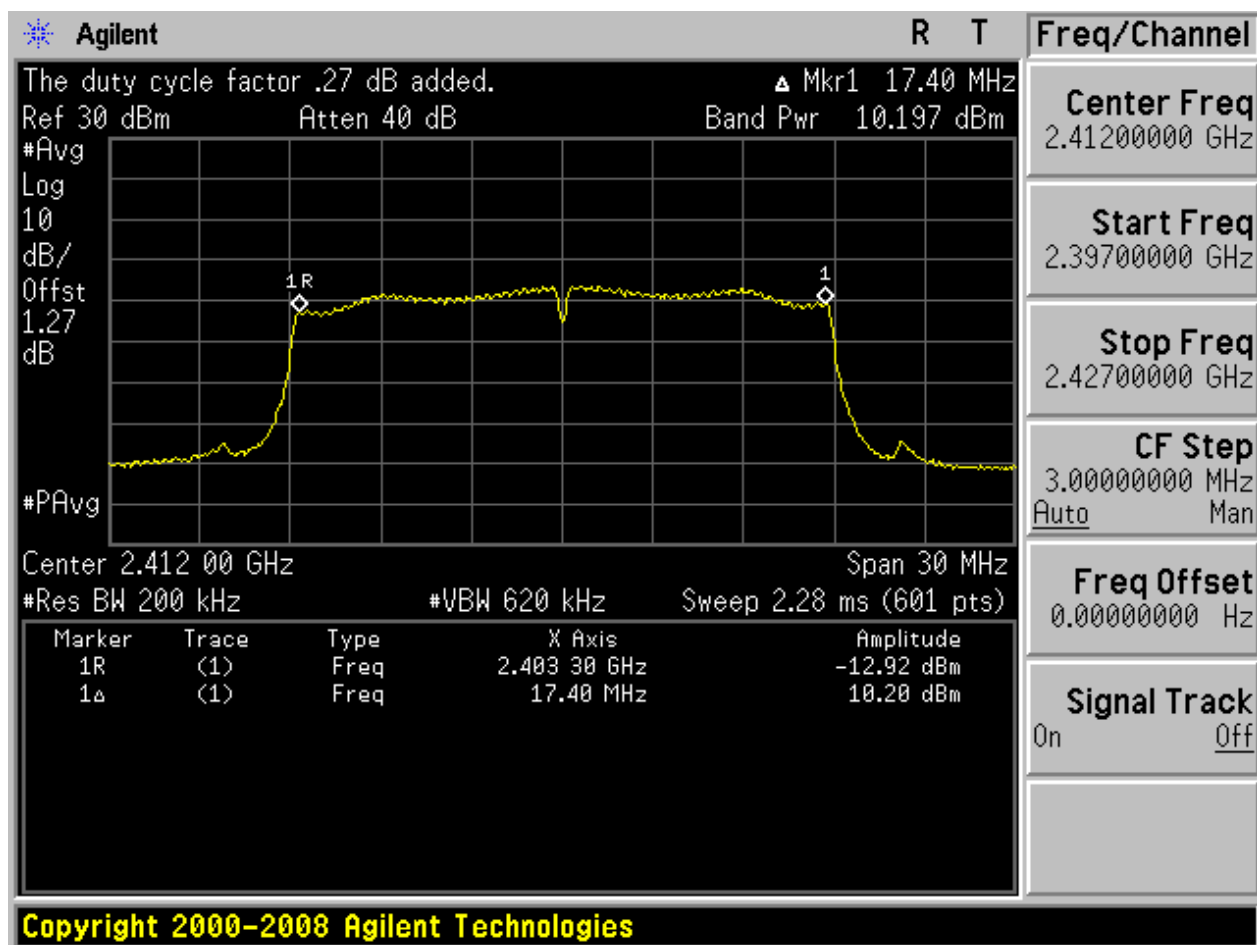


## 2.13 11N20\_L@Ant 1



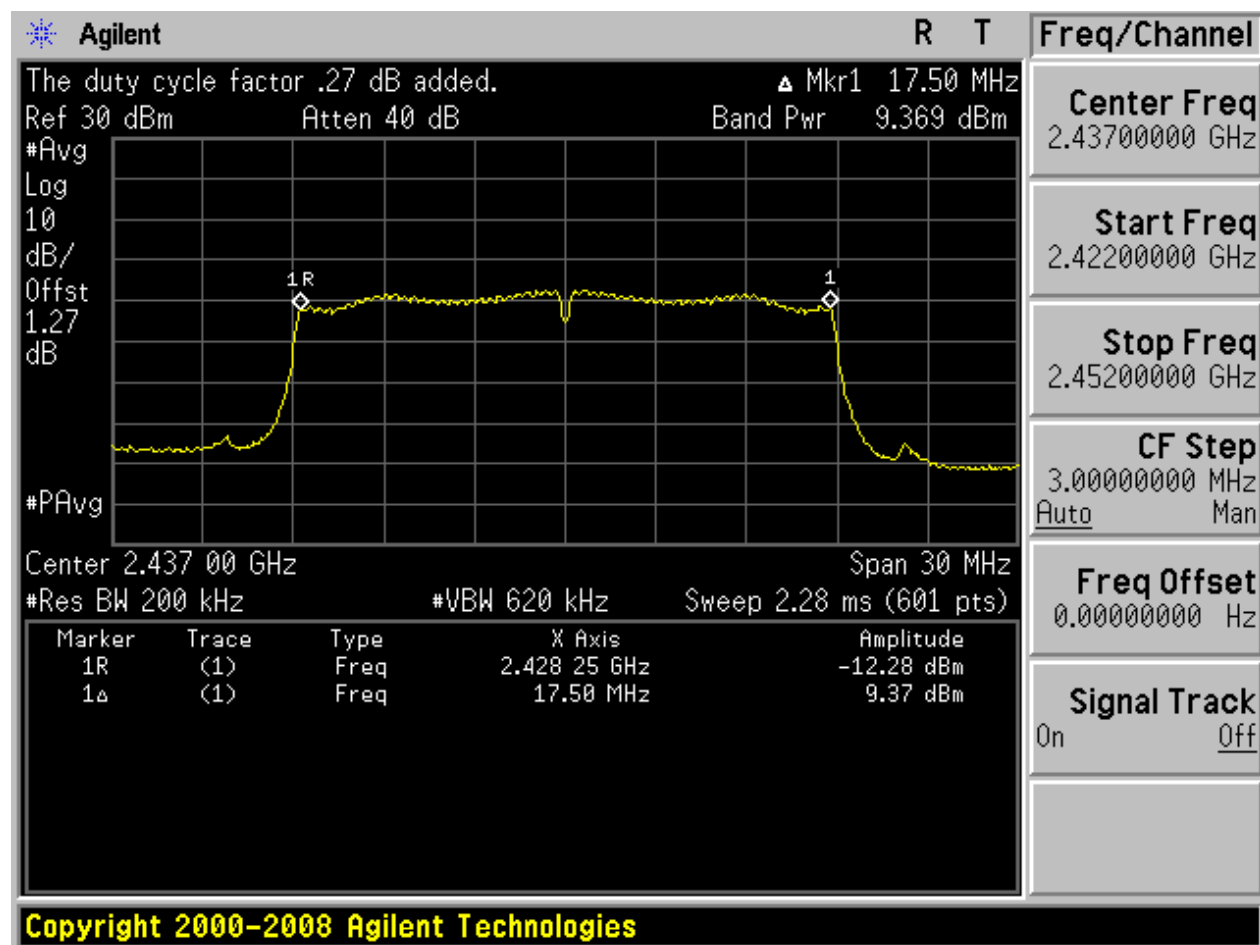


## 2.14 11N20\_L@Ant 2



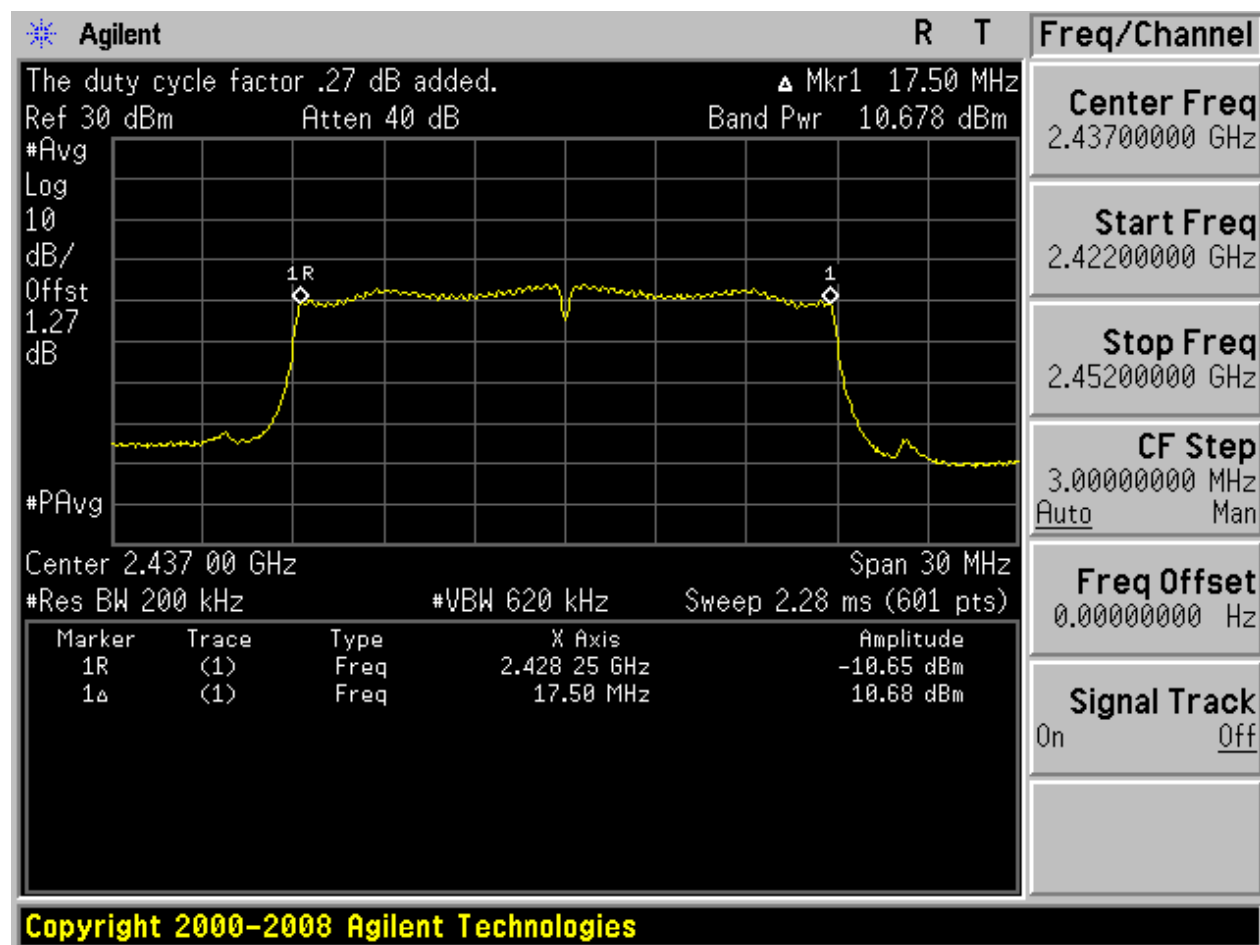


## 2.15 11N20\_M@Ant 1



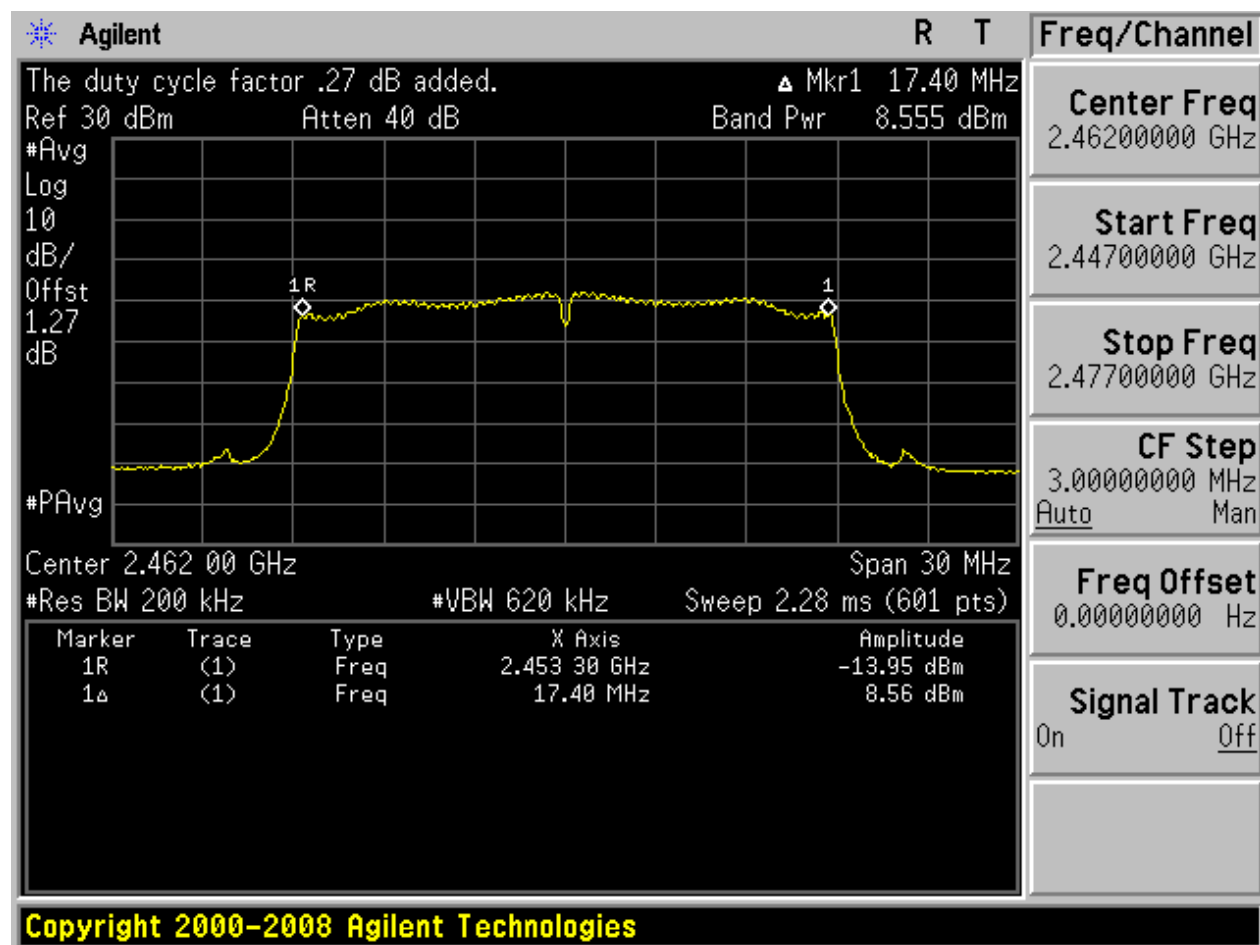


## 2.16 11N20\_M@Ant 2



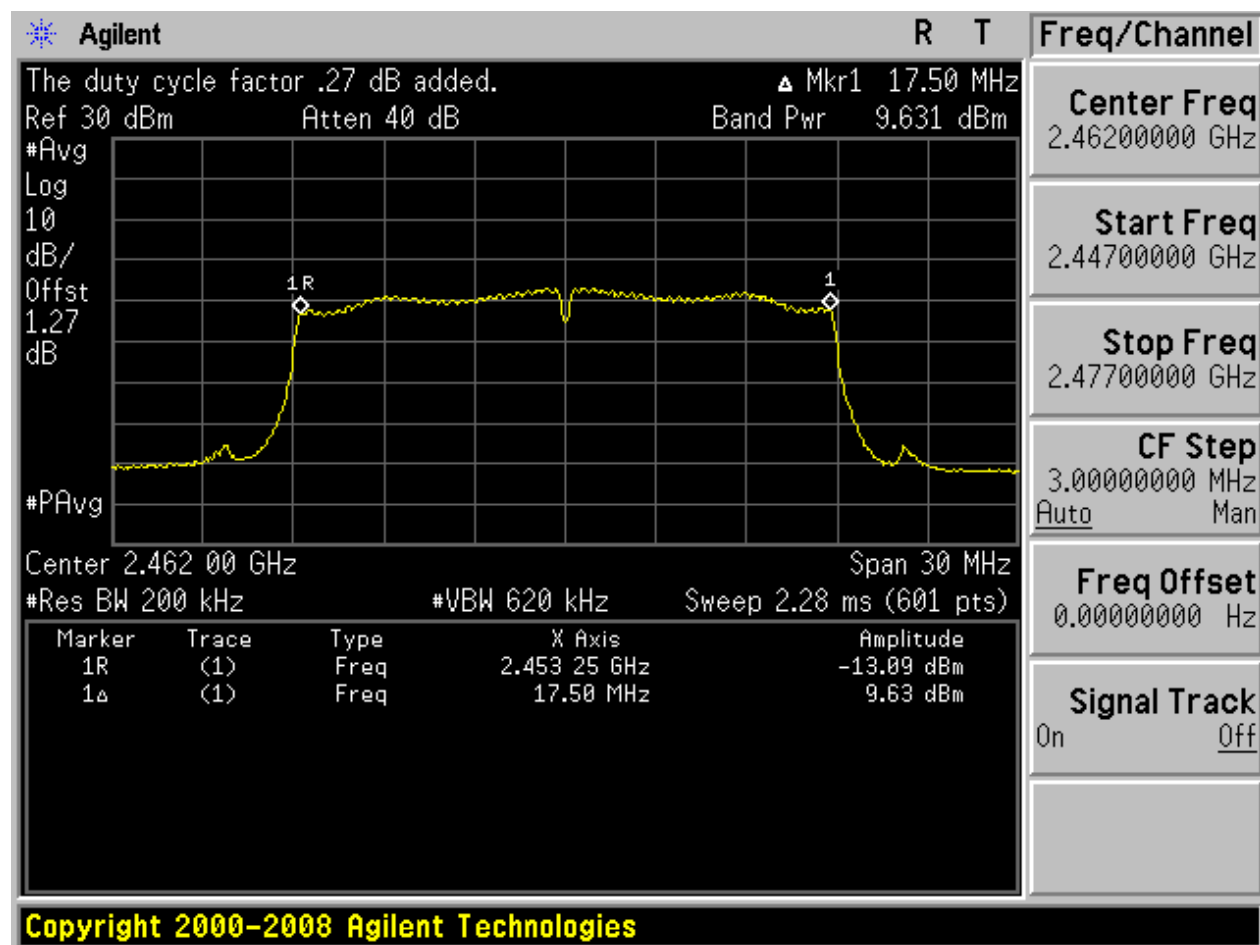


## 2.17 11N20\_H@Ant 1



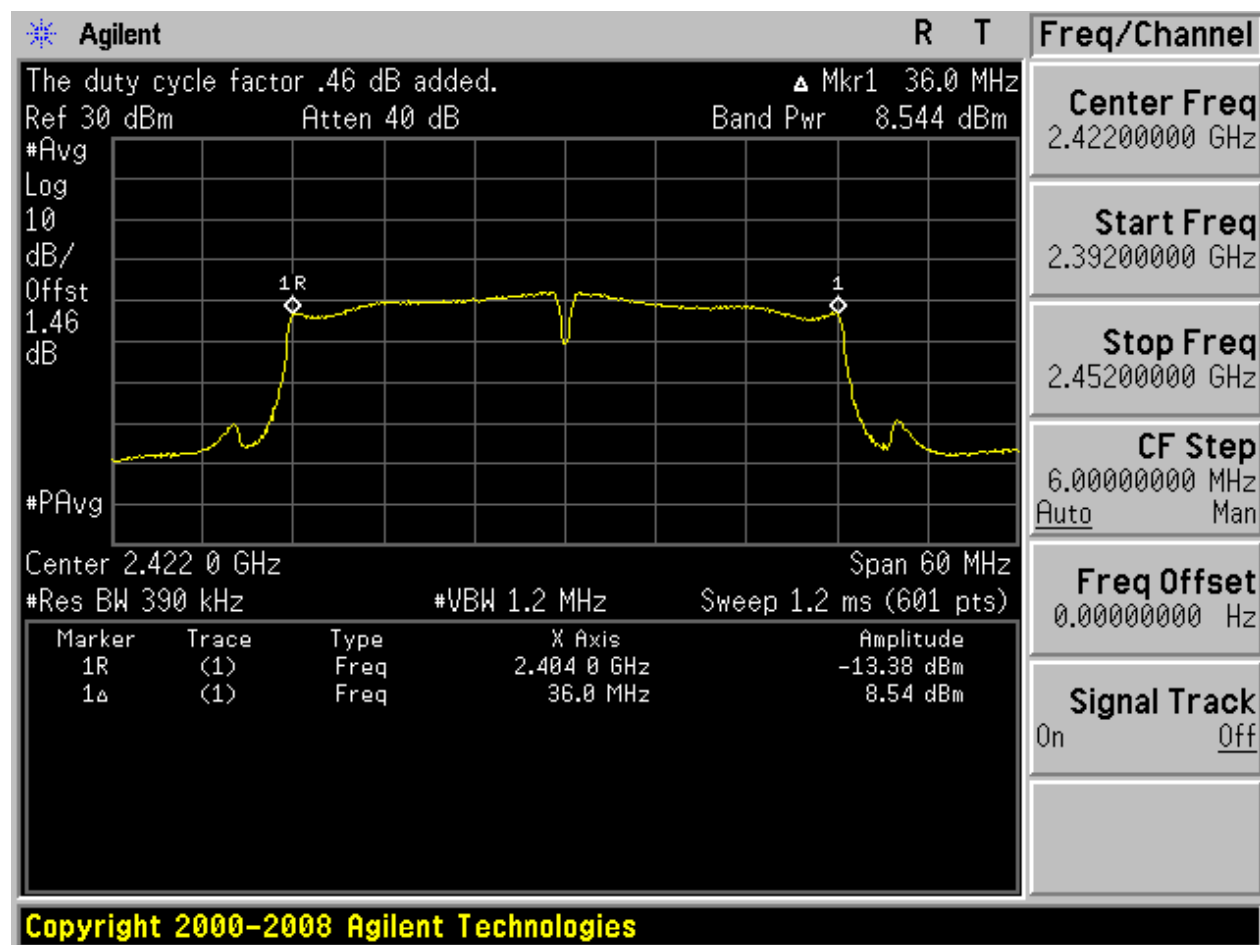


## 2.18 11N20\_H@Ant 2



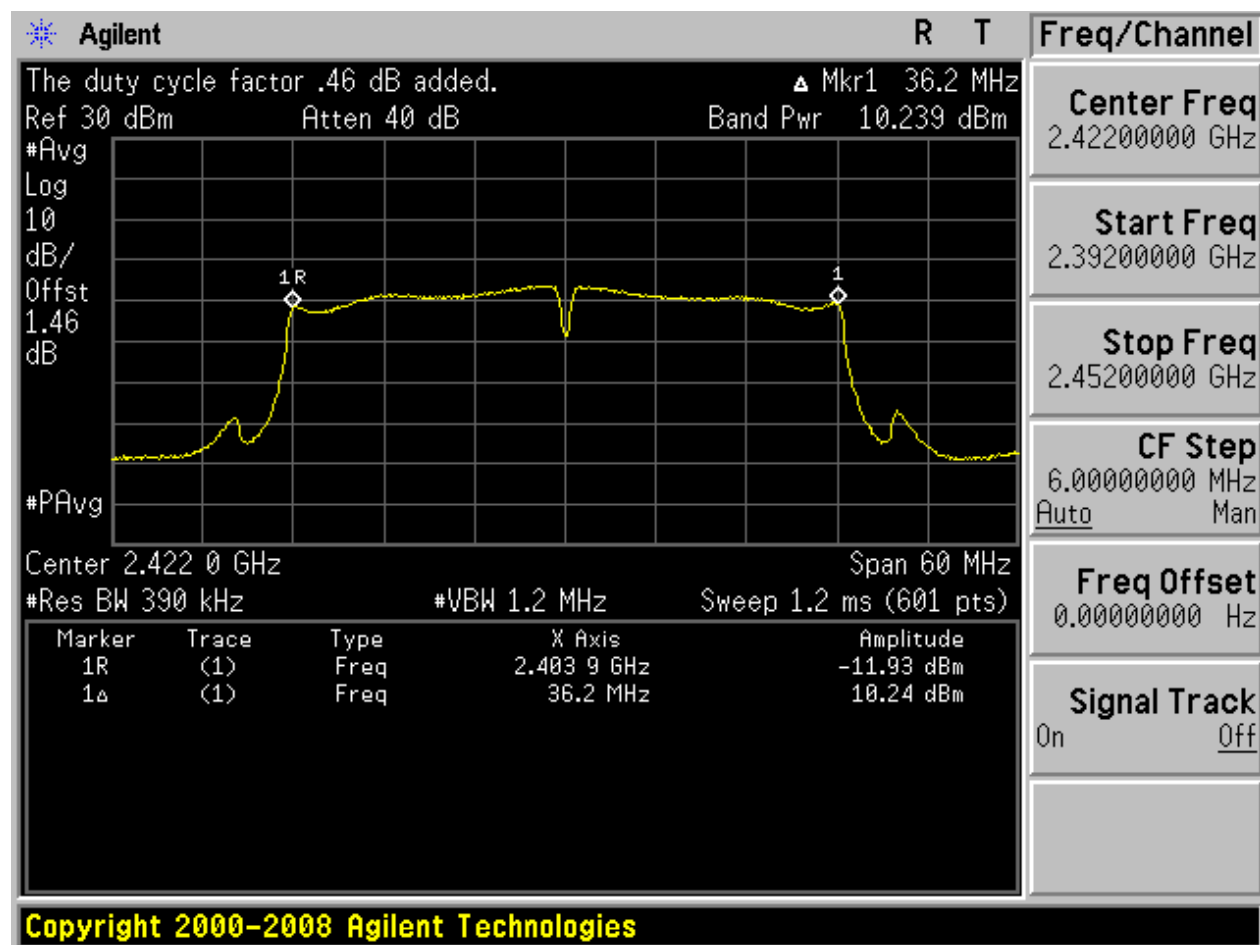


## 2.19 11N40\_L@Ant 1



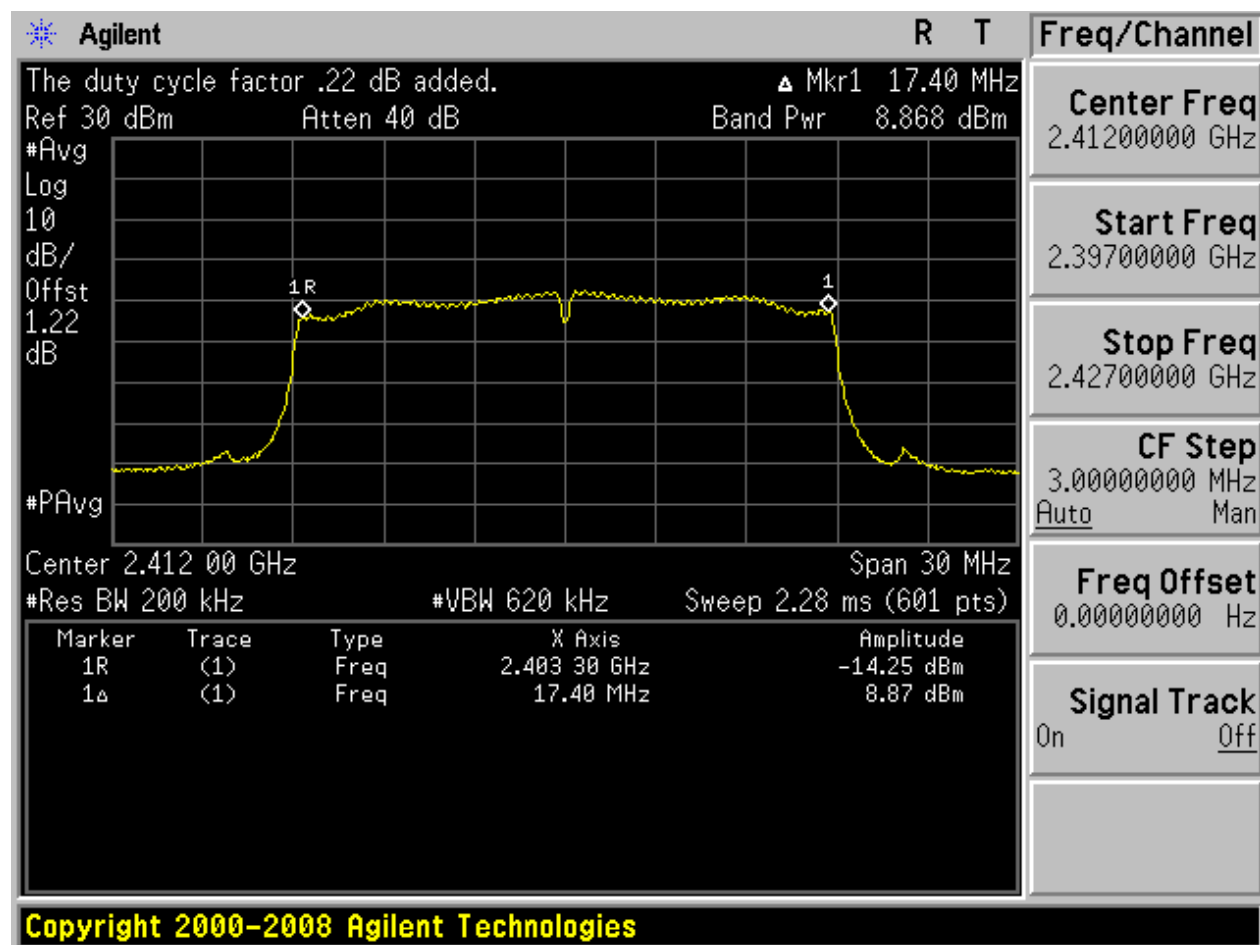


## 2.20 11N40\_L@Ant 2



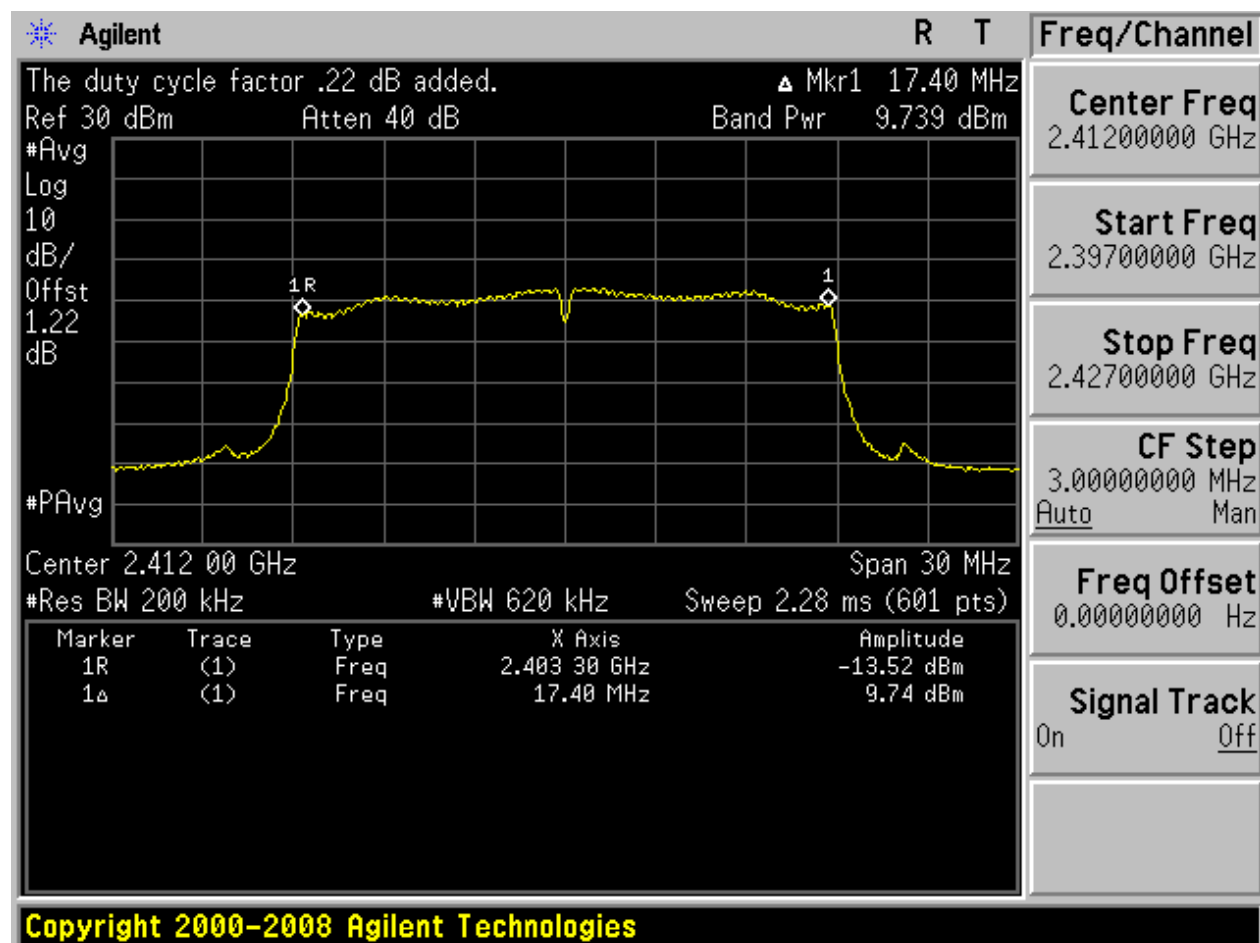


## 2.13 11N20m\_L@Ant 1



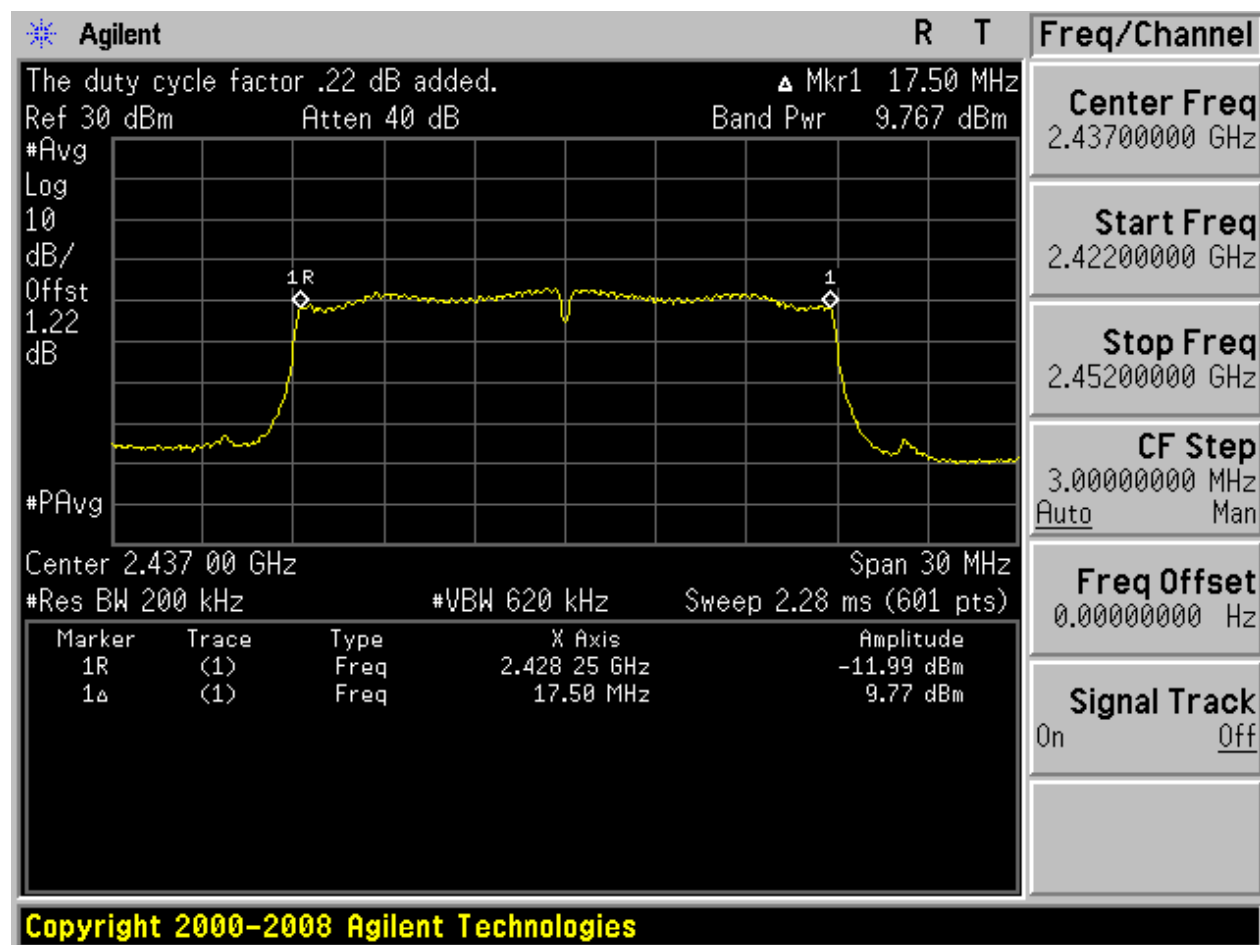


## 2.14 11N20m\_L@Ant 2



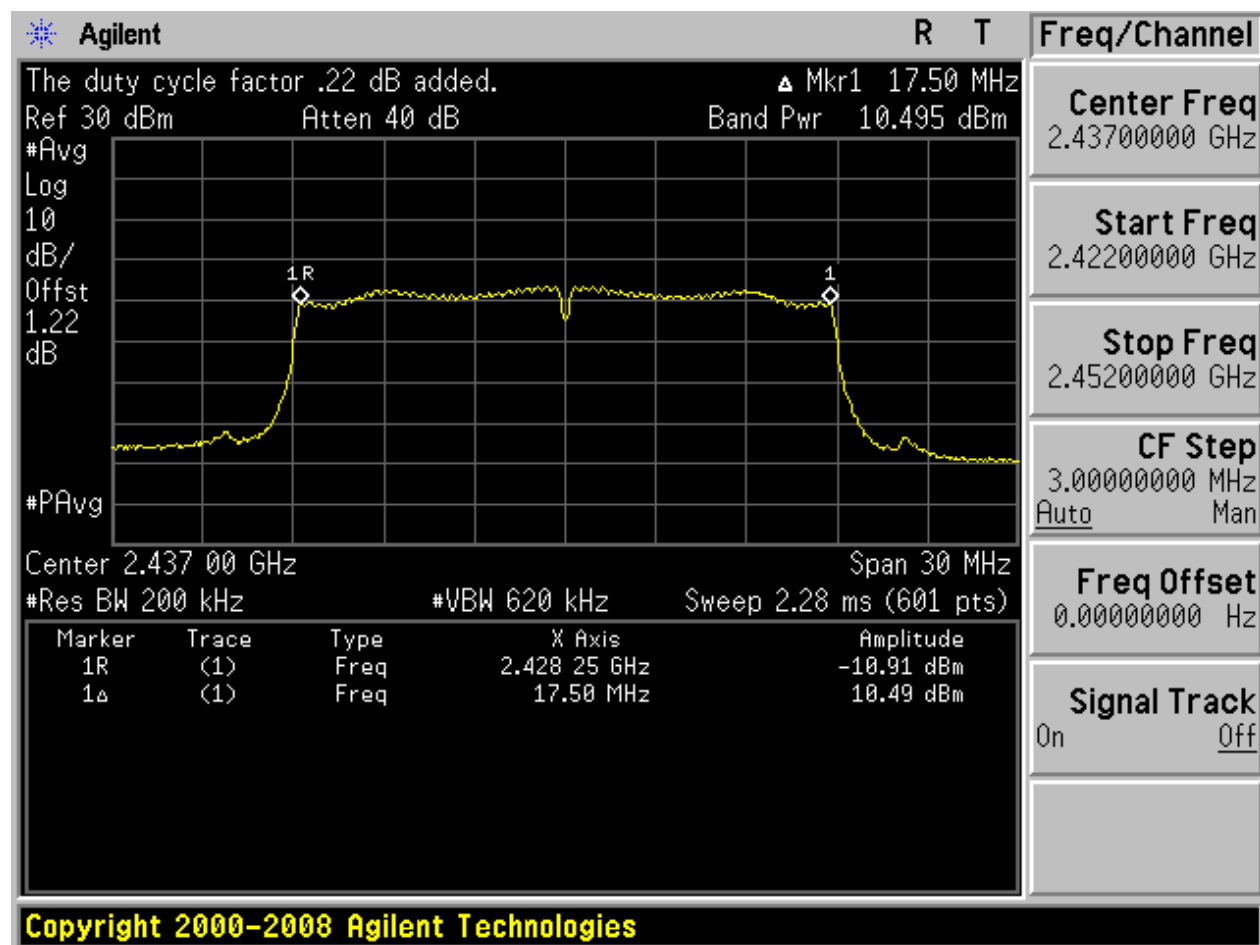


## 2.15 11N20m\_M@Ant 1



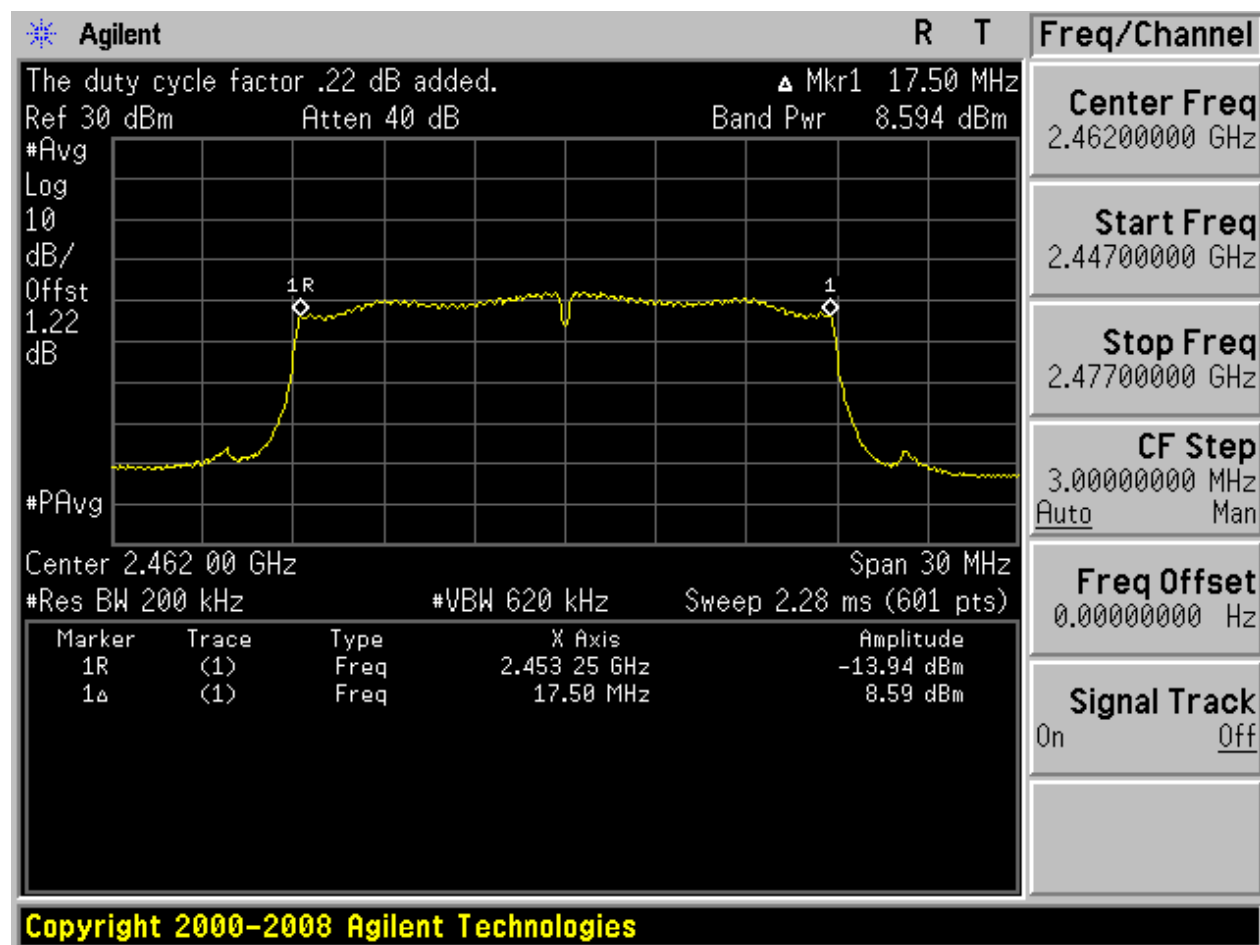


## 2.16 11N20m\_M@Ant 2



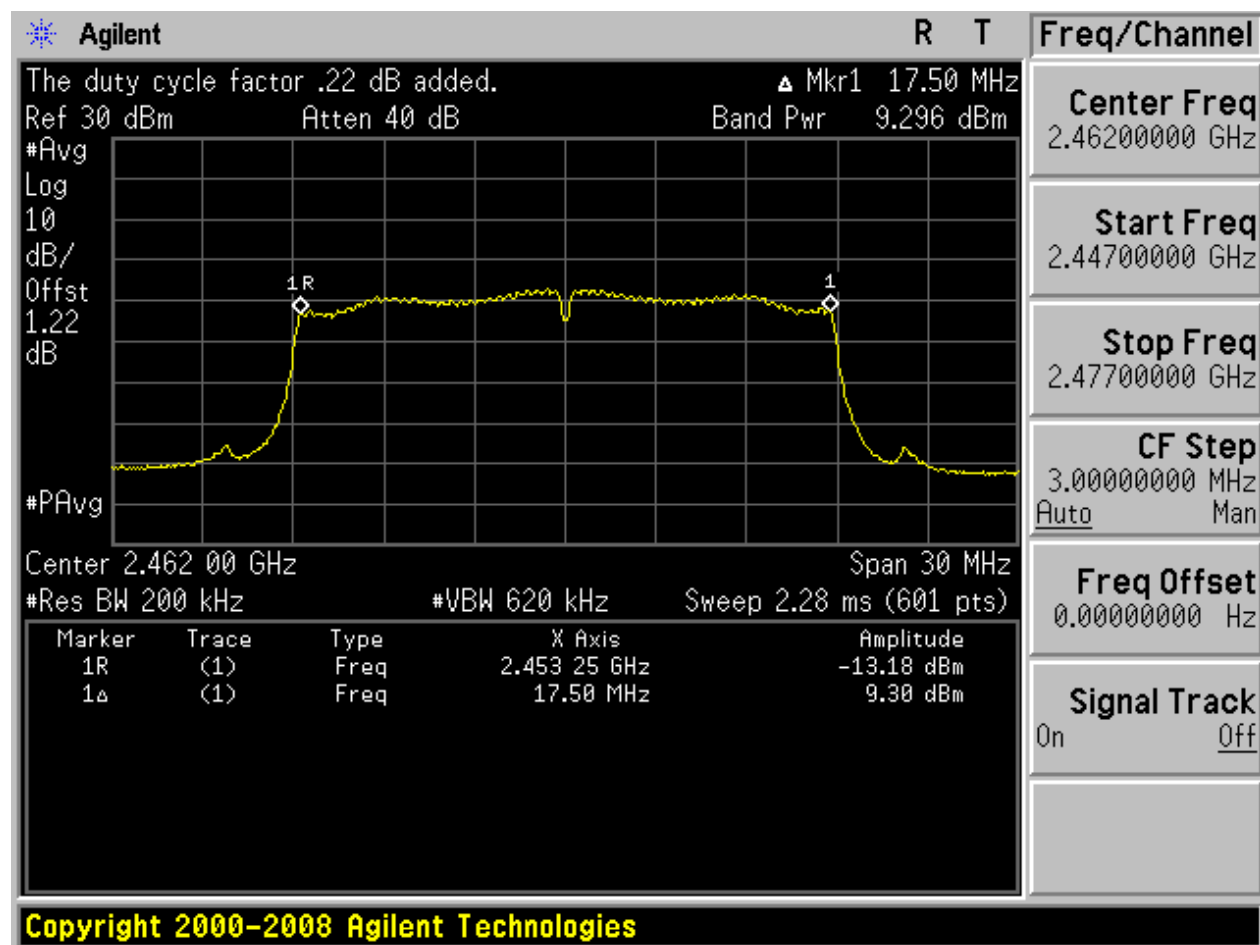


## 2.17 11N20m\_H@Ant 1



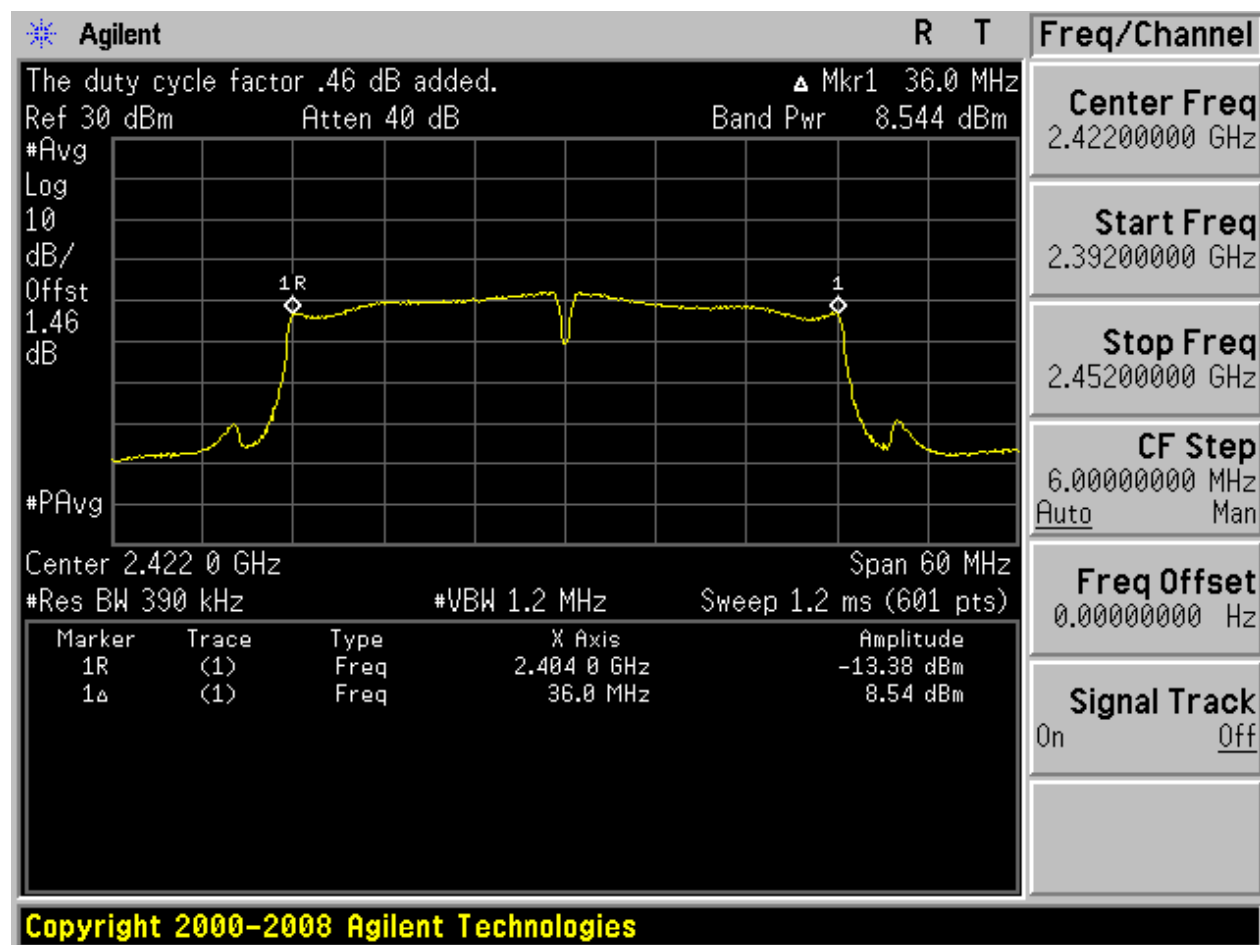


## 2.18 11N20m\_H@Ant 2



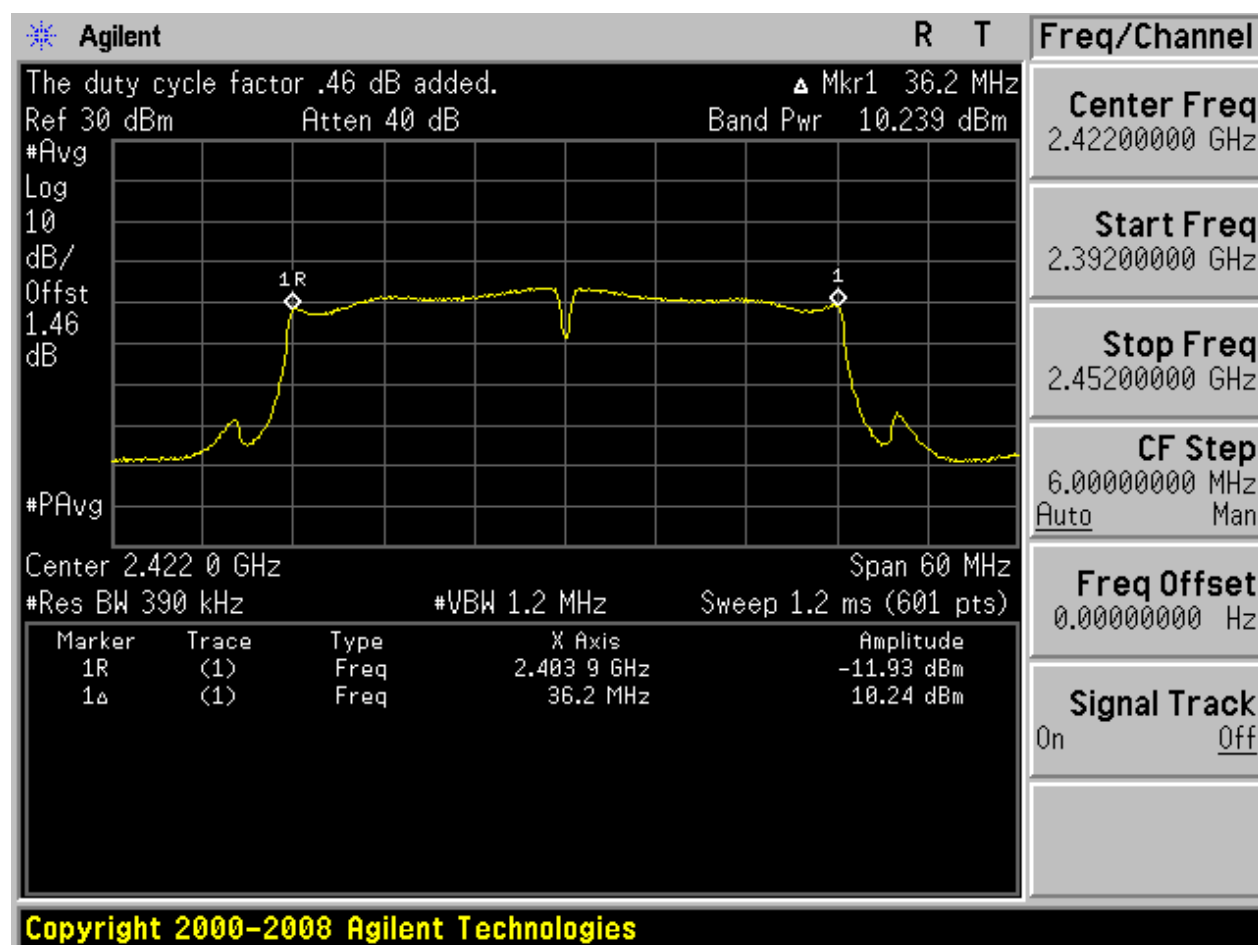


## 2.19 11N40\_L@Ant 1



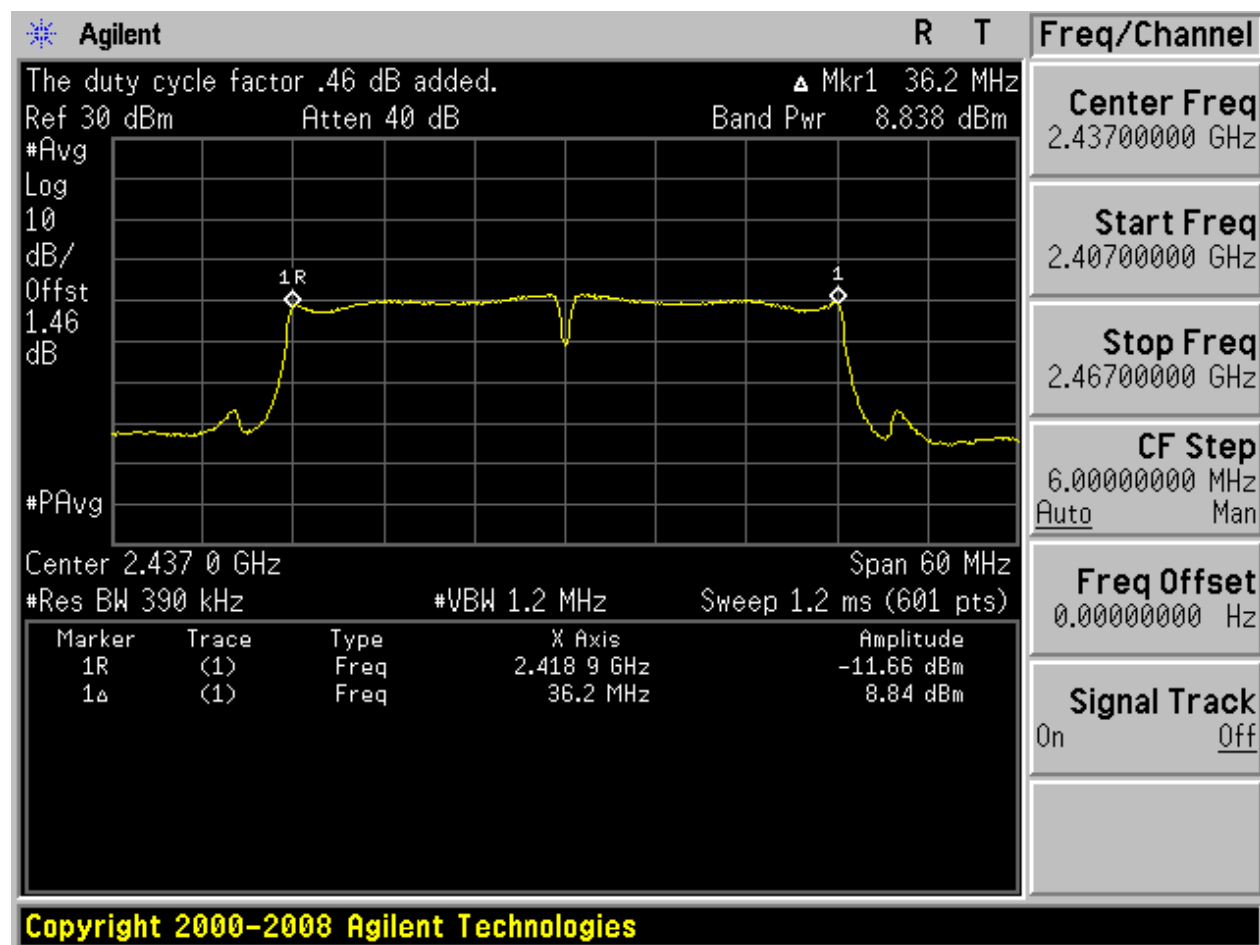


## 2.20 11N40\_L@Ant 2



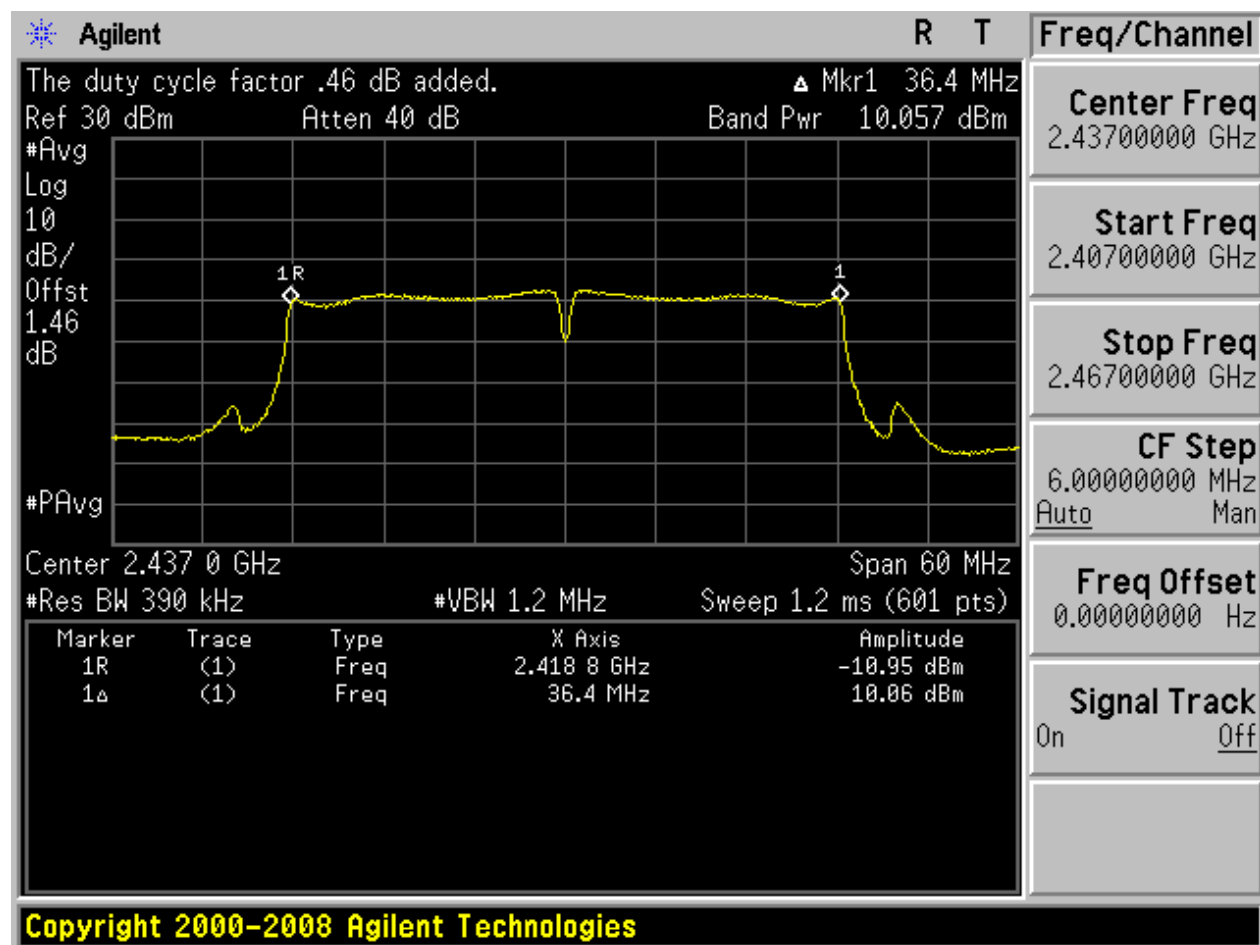


## 2.21 11N40\_M@Ant 1



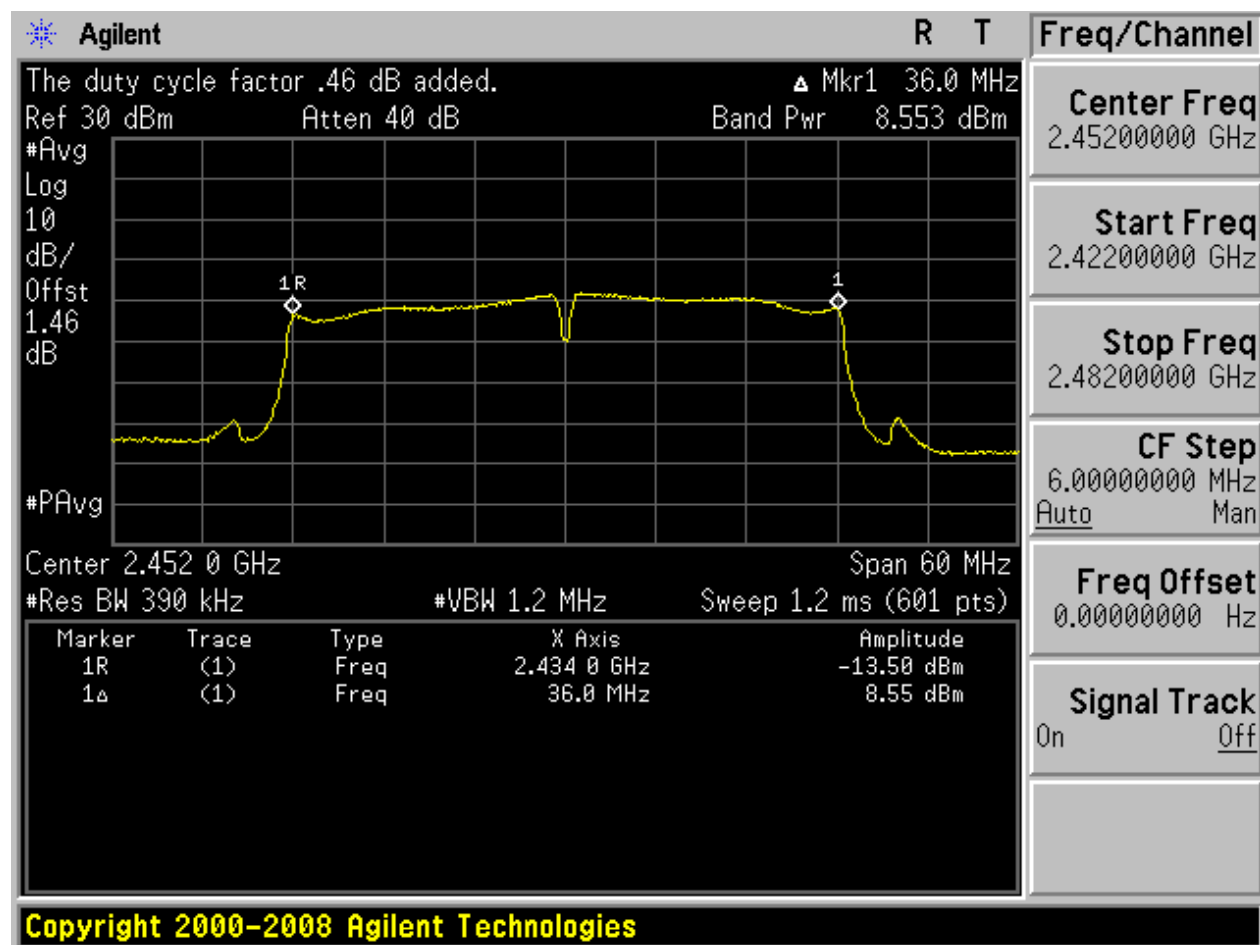


## 2.22 11N40\_M@Ant 2



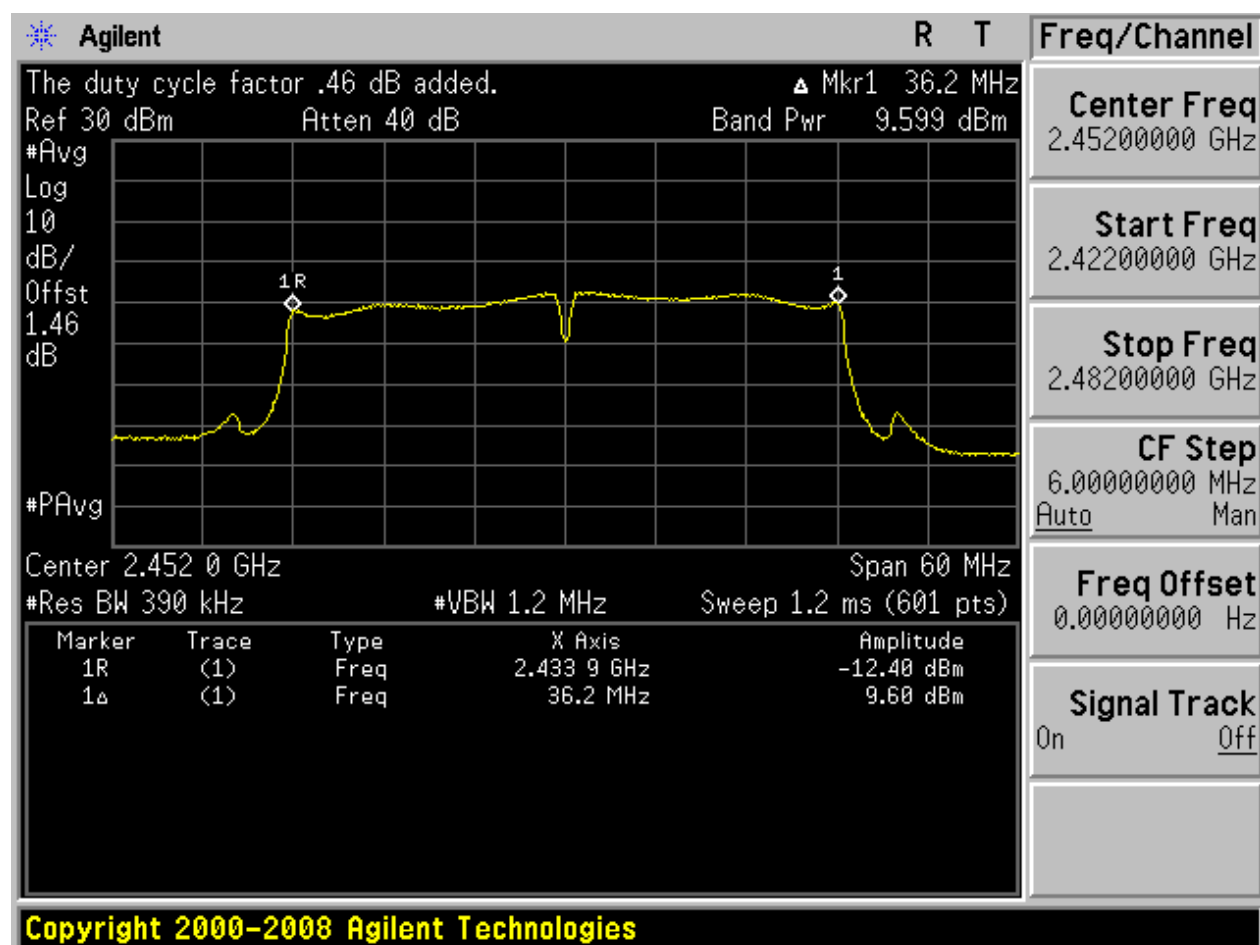


## 2.23 11N40\_H@Ant 1



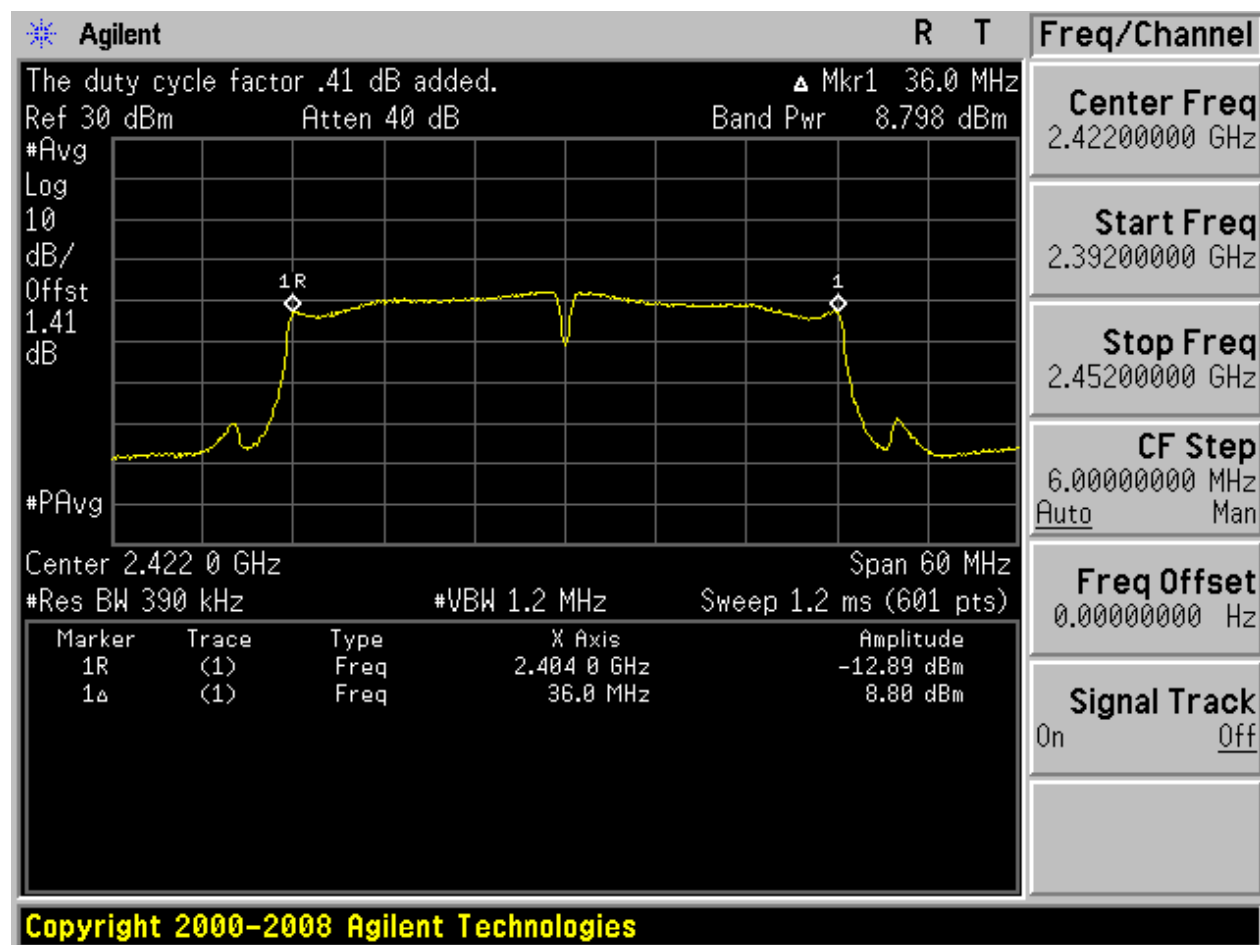


## 2.24 11N40\_H@Ant 2



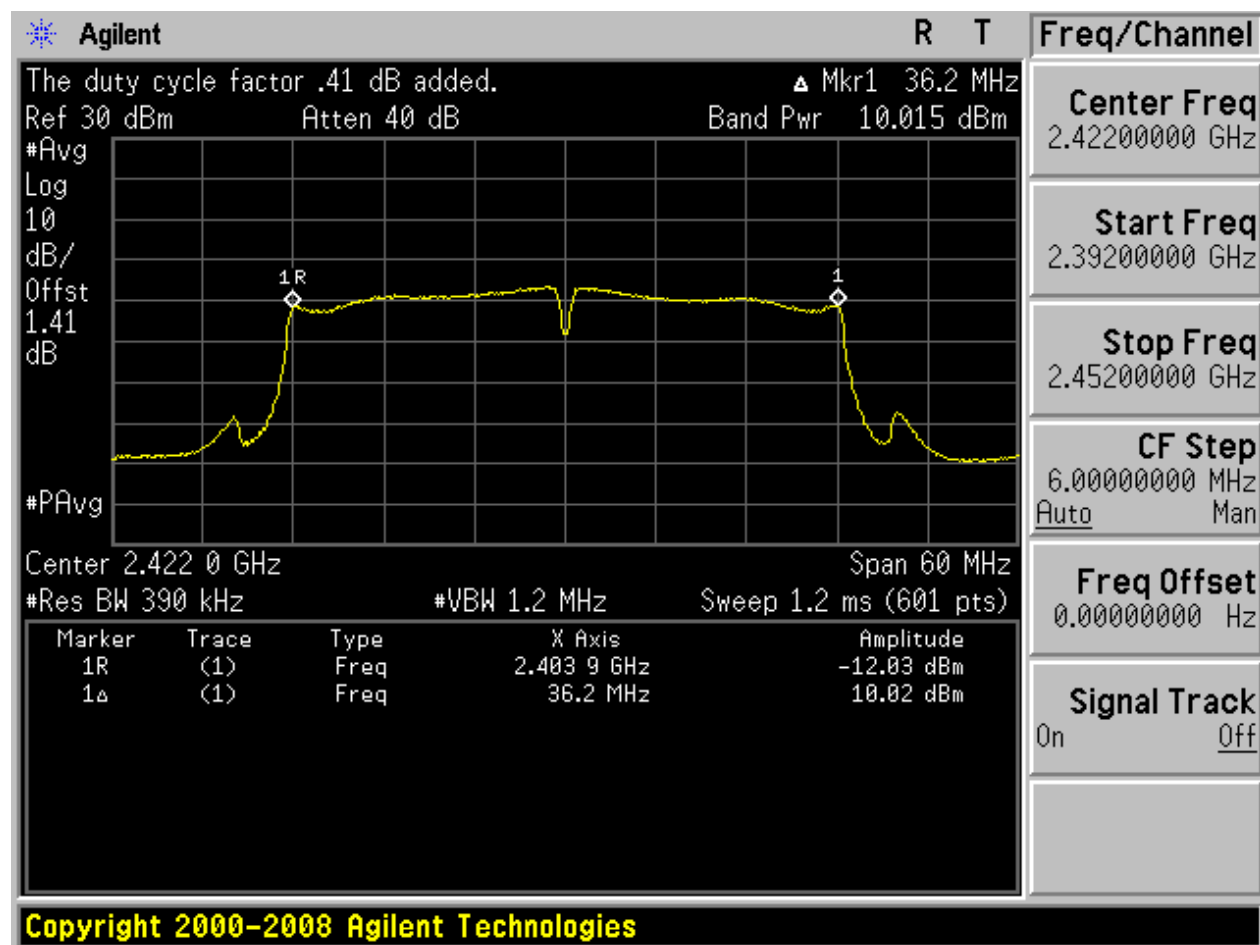


## 2.31 11N40m\_L@Ant 1



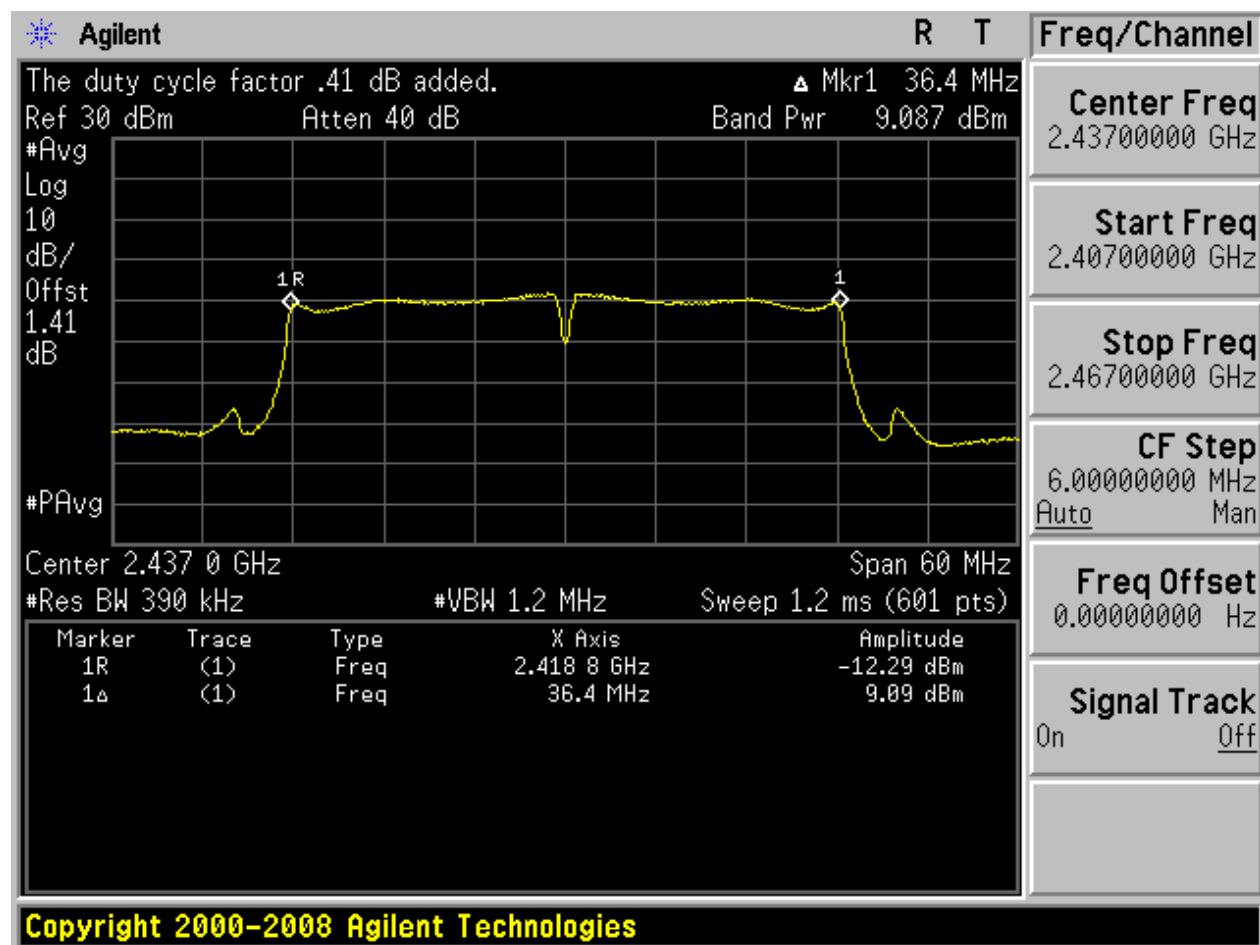


## 2.32 11N40m\_L@Ant 2



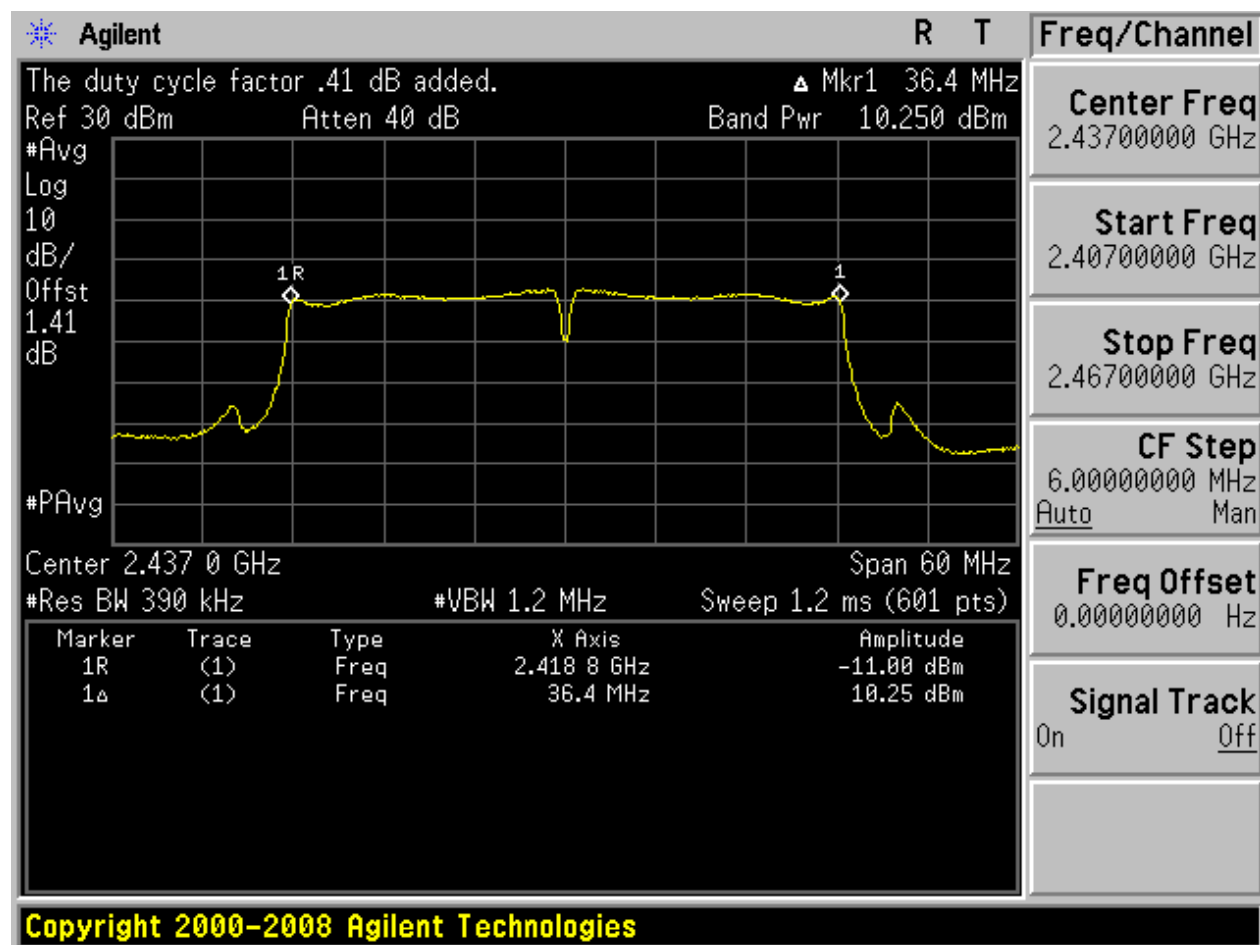


## 2.33 11N40m\_M@Ant 1



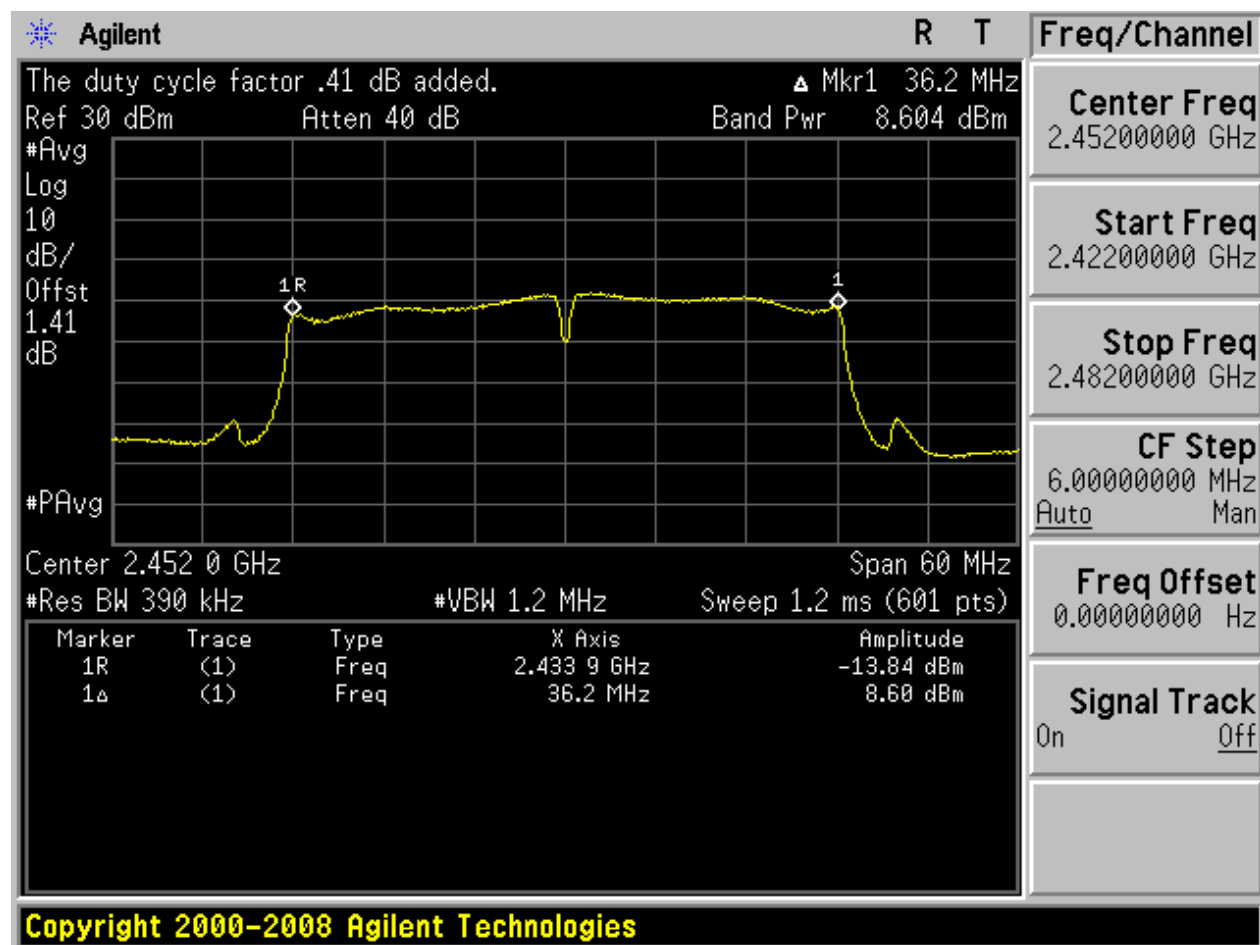


## 2.34 11N40m\_M@Ant 2



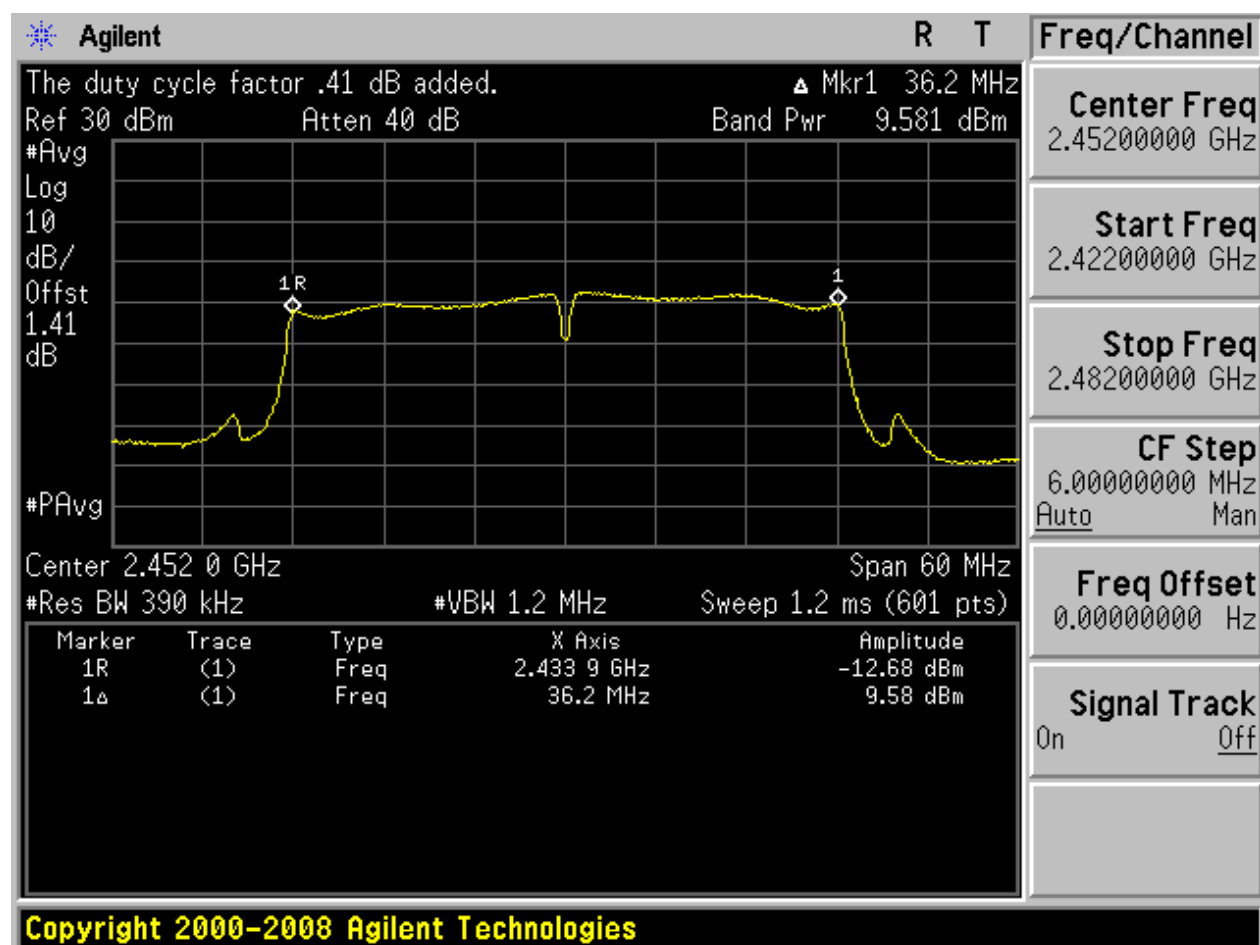


## 2.35 11N40m\_H@Ant 1





## 2.36 11N40m\_H@Ant 2



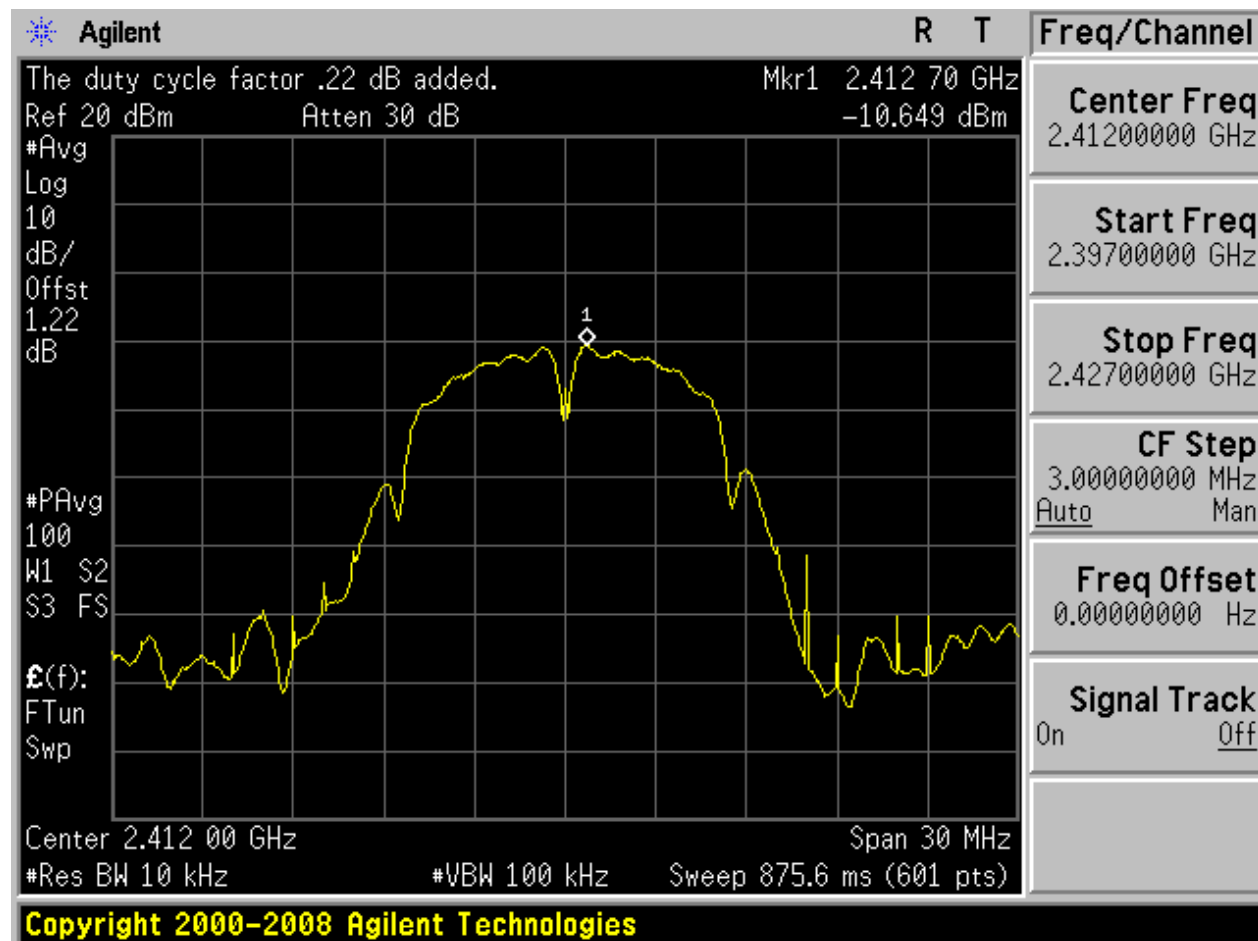
## Appendix D: Maximum Power Spectral Density Level

### Part I - Test Results

| Test Mode | Test Channel | Frequency[MHz] | Ant   | PD[MHz] | Verdict |
|-----------|--------------|----------------|-------|---------|---------|
| 11B       | L            | 2412           | Ant 1 | -10.65  | pass    |
| 11B       | L            | 2412           | Ant 2 | -9.91   | pass    |
| 11B       | M            | 2437           | Ant 1 | -10.12  | pass    |
| 11B       | M            | 2437           | Ant 2 | -9.31   | pass    |
| 11B       | H            | 2462           | Ant 1 | -10.92  | pass    |
| 11B       | H            | 2462           | Ant 2 | -10.33  | pass    |
| 11G       | L            | 2412           | Ant 1 | -16.77  | pass    |
| 11G       | L            | 2412           | Ant 2 | -15.88  | pass    |
| 11G       | M            | 2437           | Ant 1 | -16.18  | pass    |
| 11G       | M            | 2437           | Ant 2 | -15.37  | pass    |
| 11G       | H            | 2462           | Ant 1 | -16.68  | pass    |
| 11G       | H            | 2462           | Ant 2 | -16.06  | pass    |
| 11N20     | L            | 2412           | Ant 1 | -19.95  | pass    |
| 11N20     | L            | 2412           | Ant 2 | -18.36  | pass    |
| 11N20     | M            | 2437           | Ant 1 | -19.59  | pass    |
| 11N20     | M            | 2437           | Ant 2 | -18.17  | pass    |
| 11N20     | H            | 2462           | Ant 1 | -20.11  | pass    |
| 11N20     | H            | 2462           | Ant 2 | -18.74  | pass    |
| 11N20m    | L            | 2412           | Ant 1 | -19.67  | pass    |
| 11N20m    | L            | 2412           | Ant 2 | -18.82  | pass    |
| 11N20m    | M            | 2437           | Ant 1 | -19.11  | pass    |
| 11N20m    | M            | 2437           | Ant 2 | -18.45  | pass    |
| 11N20m    | H            | 2462           | Ant 1 | -19.96  | pass    |
| 11N20m    | H            | 2462           | Ant 2 | -19.08  | pass    |
| 11N40     | L            | 2422           | Ant 1 | -22.87  | pass    |
| 11N40     | L            | 2422           | Ant 2 | -21.35  | pass    |
| 11N40     | M            | 2437           | Ant 1 | -23.33  | pass    |
| 11N40     | M            | 2437           | Ant 2 | -22.47  | pass    |
| 11N40     | H            | 2452           | Ant 1 | -23.08  | pass    |
| 11N40     | H            | 2452           | Ant 2 | -22.33  | pass    |
| 11N40m    | L            | 2422           | Ant 1 | -22.53  | pass    |
| 11N40m    | L            | 2422           | Ant 2 | -21.46  | pass    |
| 11N40m    | M            | 2437           | Ant 1 | -23.32  | pass    |
| 11N40m    | M            | 2437           | Ant 2 | -22.36  | pass    |
| 11N40m    | H            | 2452           | Ant 1 | -23.00  | pass    |
| 11N40m    | H            | 2452           | Ant 2 | -22.19  | pass    |

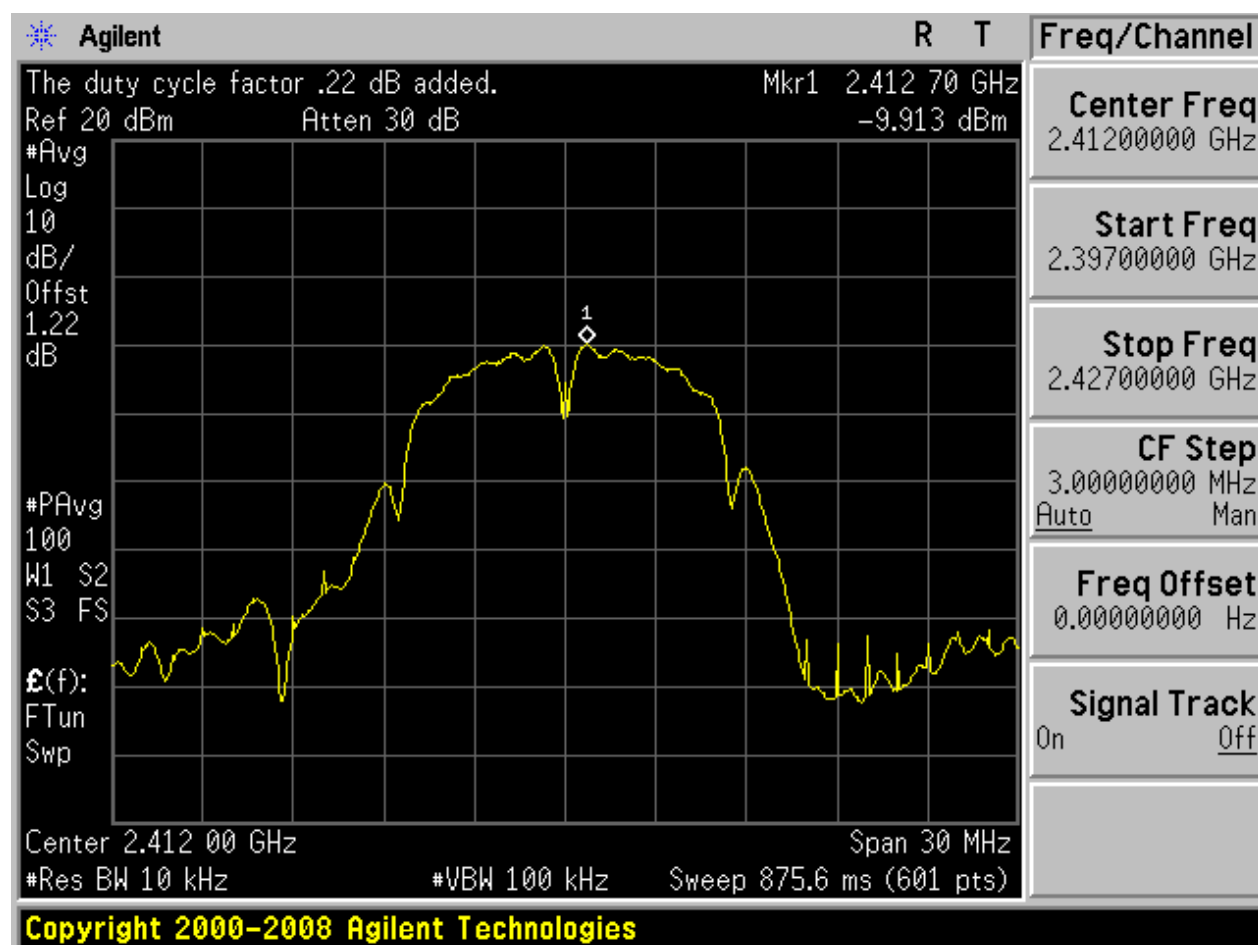
## Part II - Test Plots

### 2.1 11B\_L@Ant 1



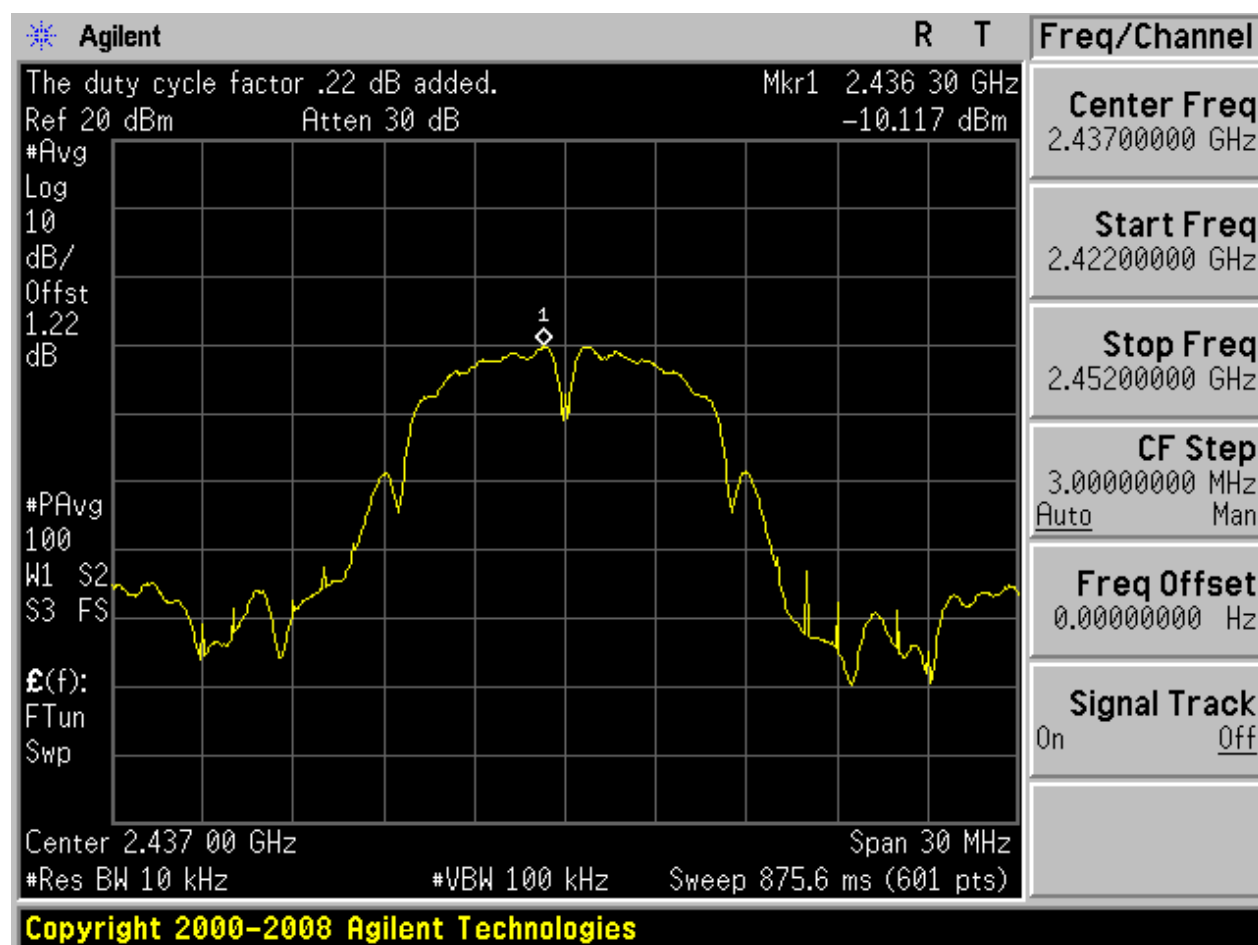


## 2.2 11B\_L@Ant 2



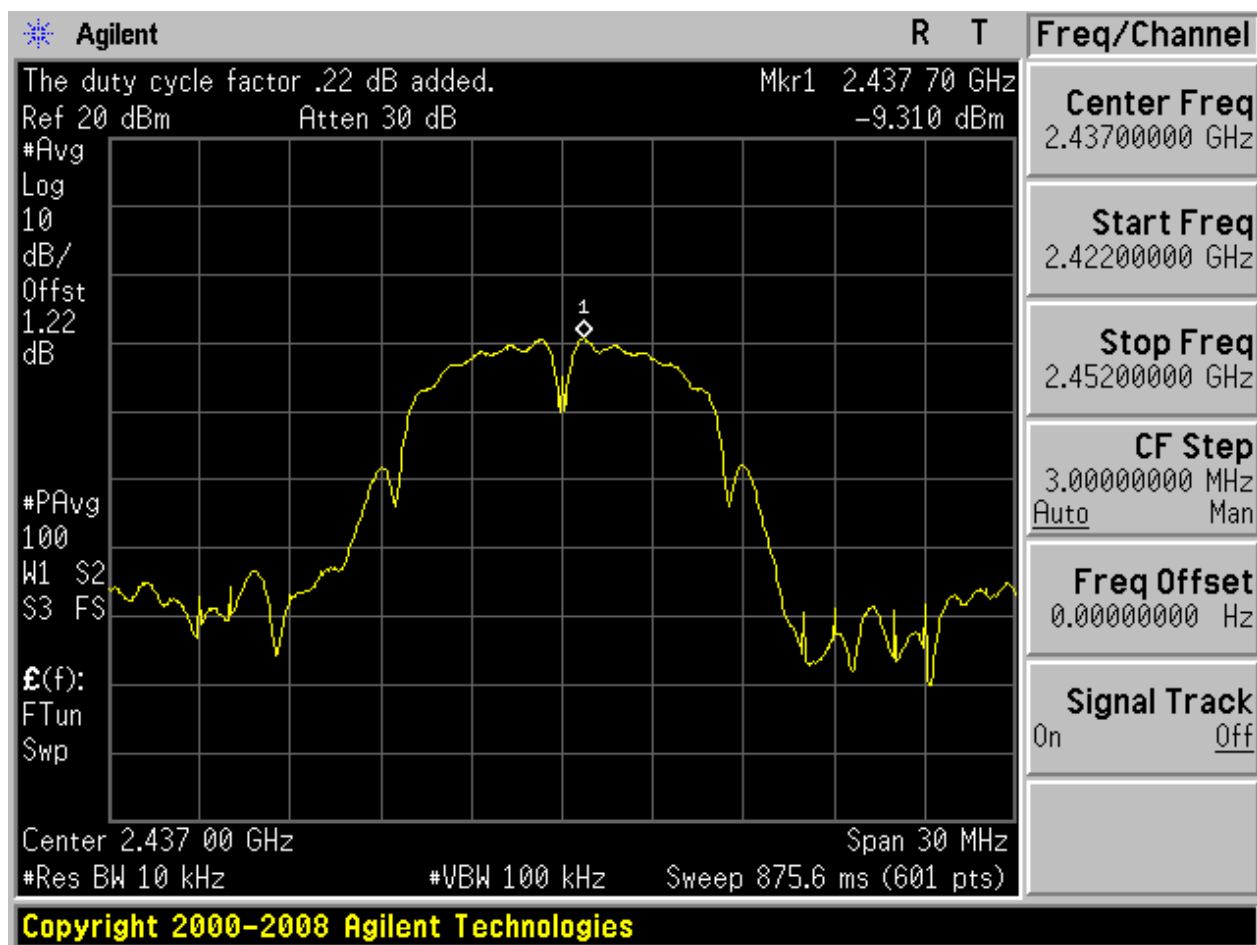


## 2.3 11B\_M@Ant 1



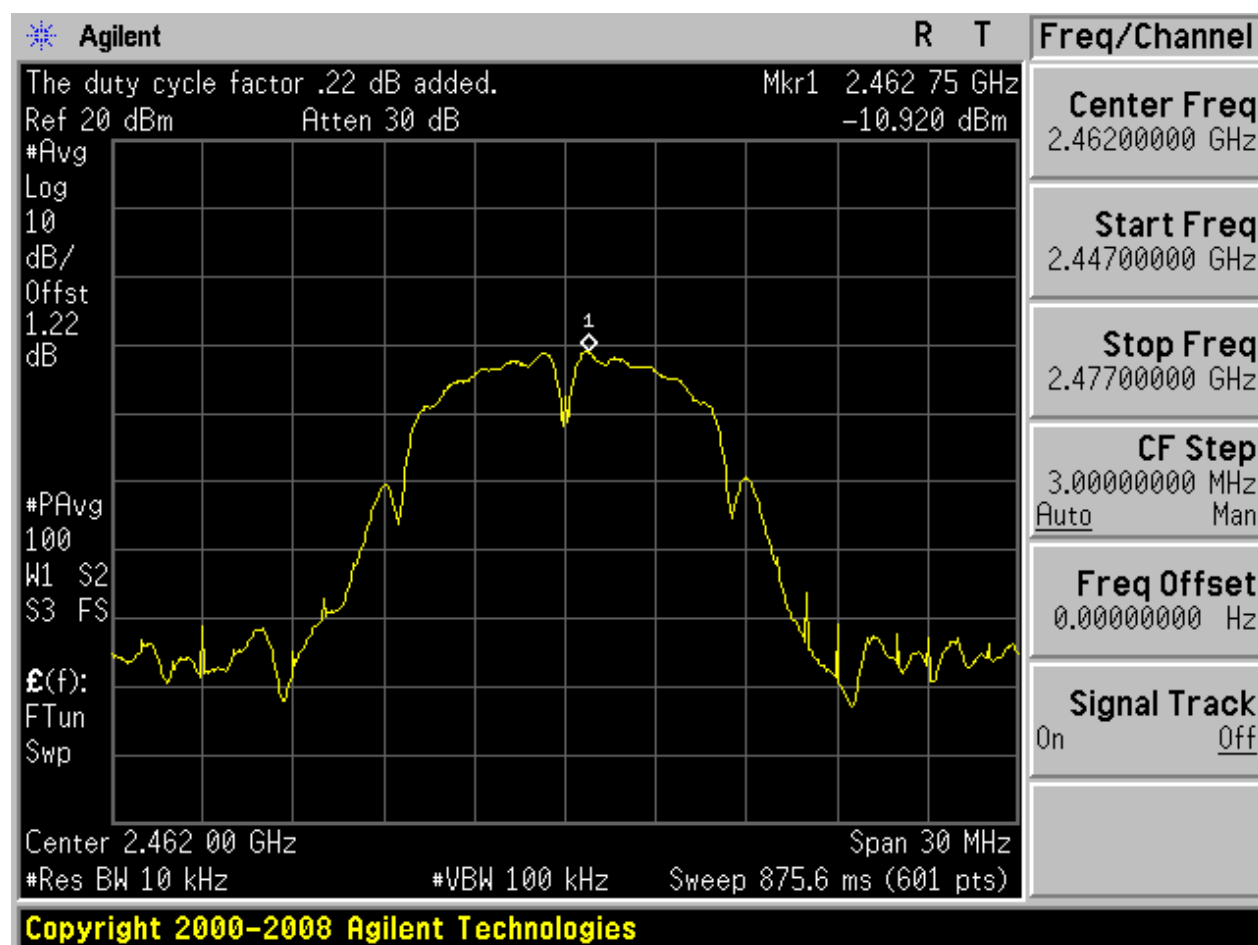


## 2.4 11B\_M@Ant 2



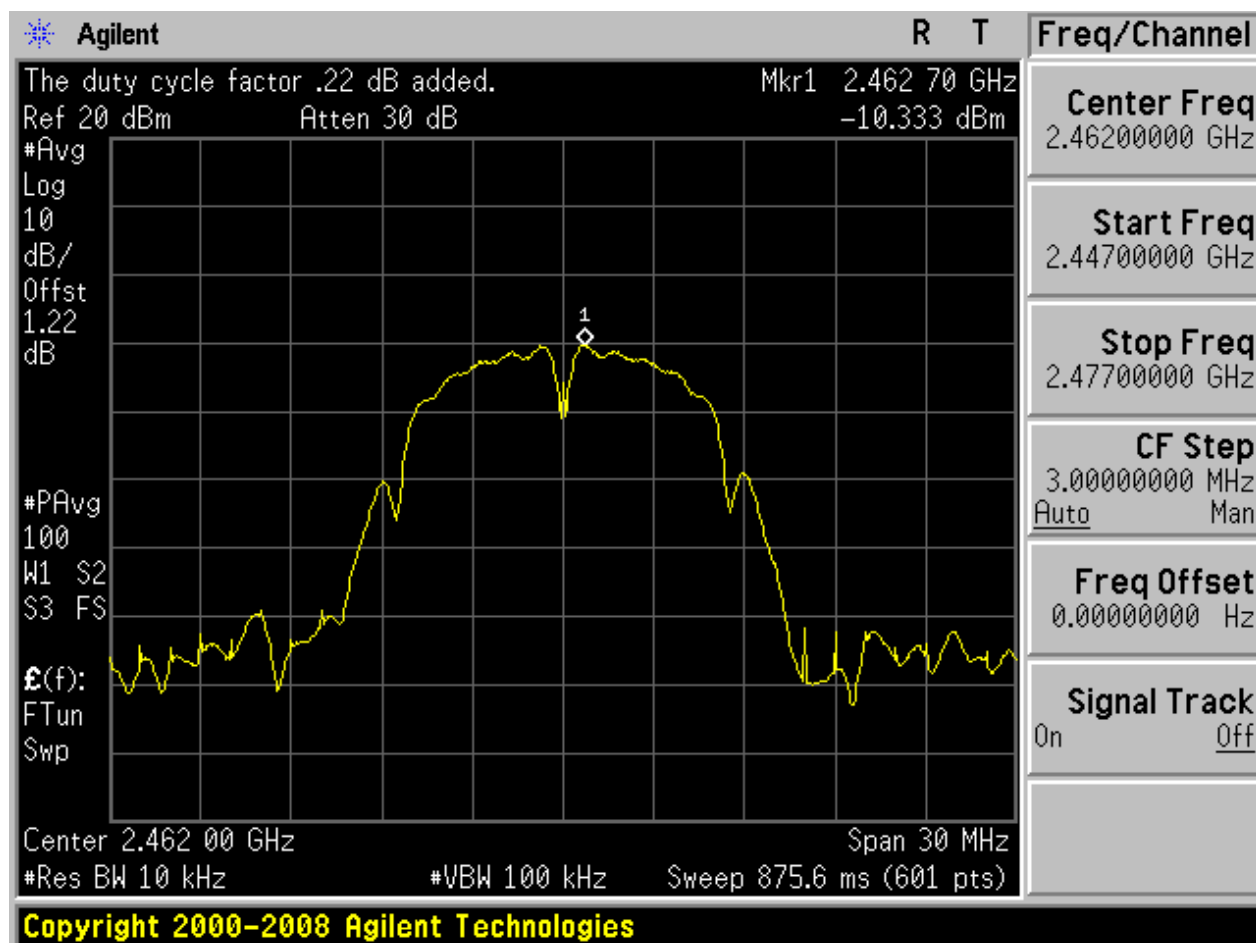


## 2.5 11B\_H@Ant 1



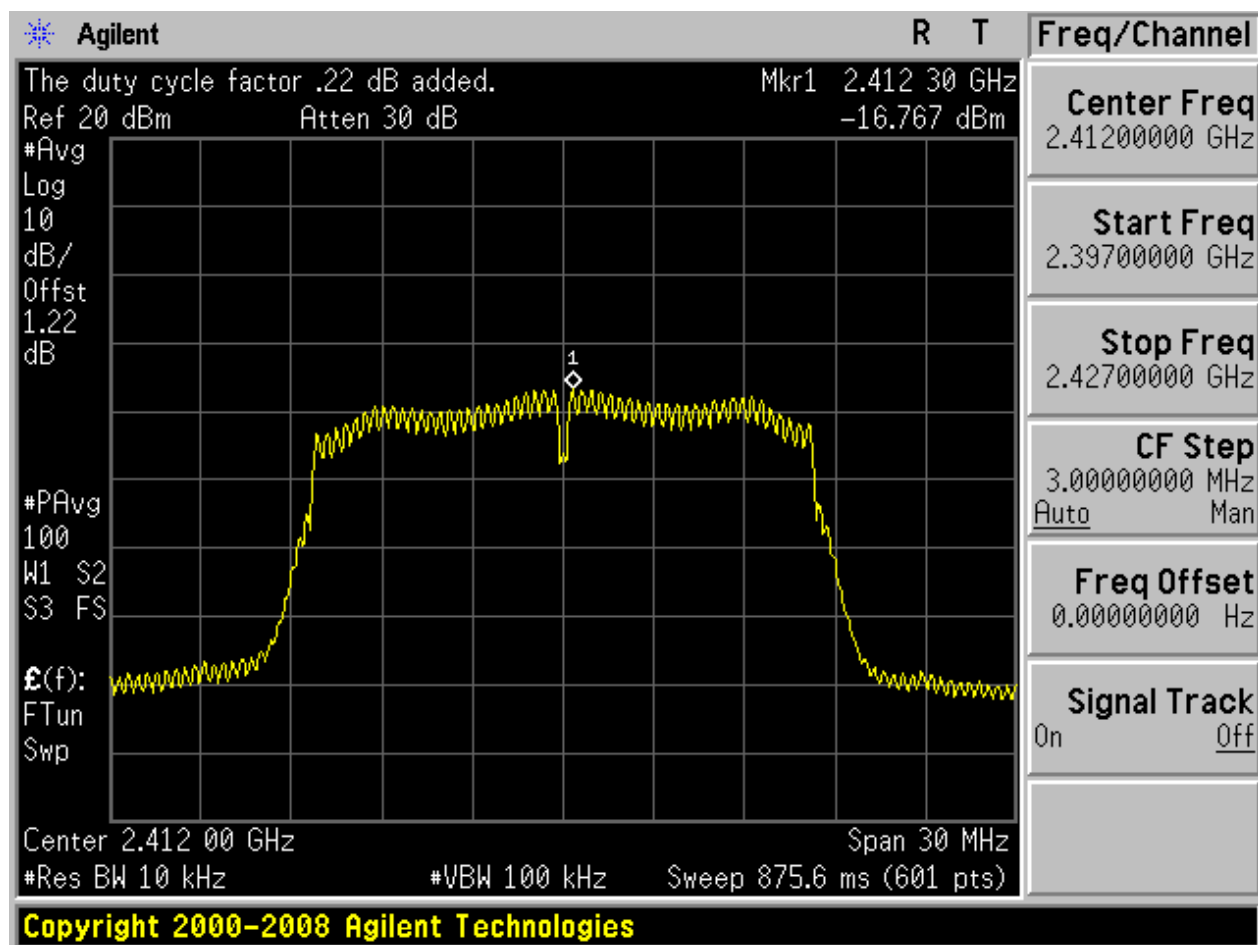


## 2.6 11B\_H@Ant 2

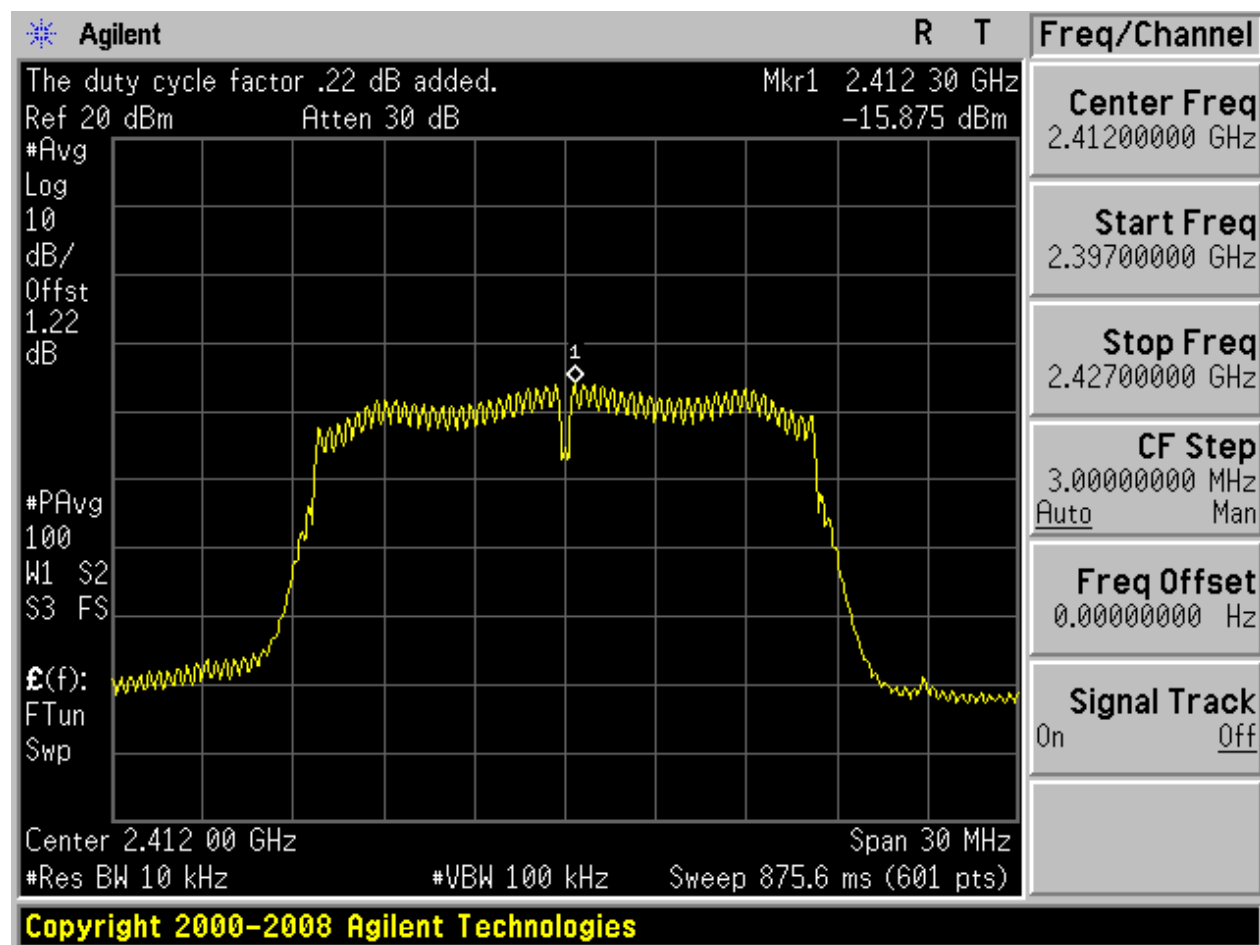




## 2.7 11G\_L@Ant 1

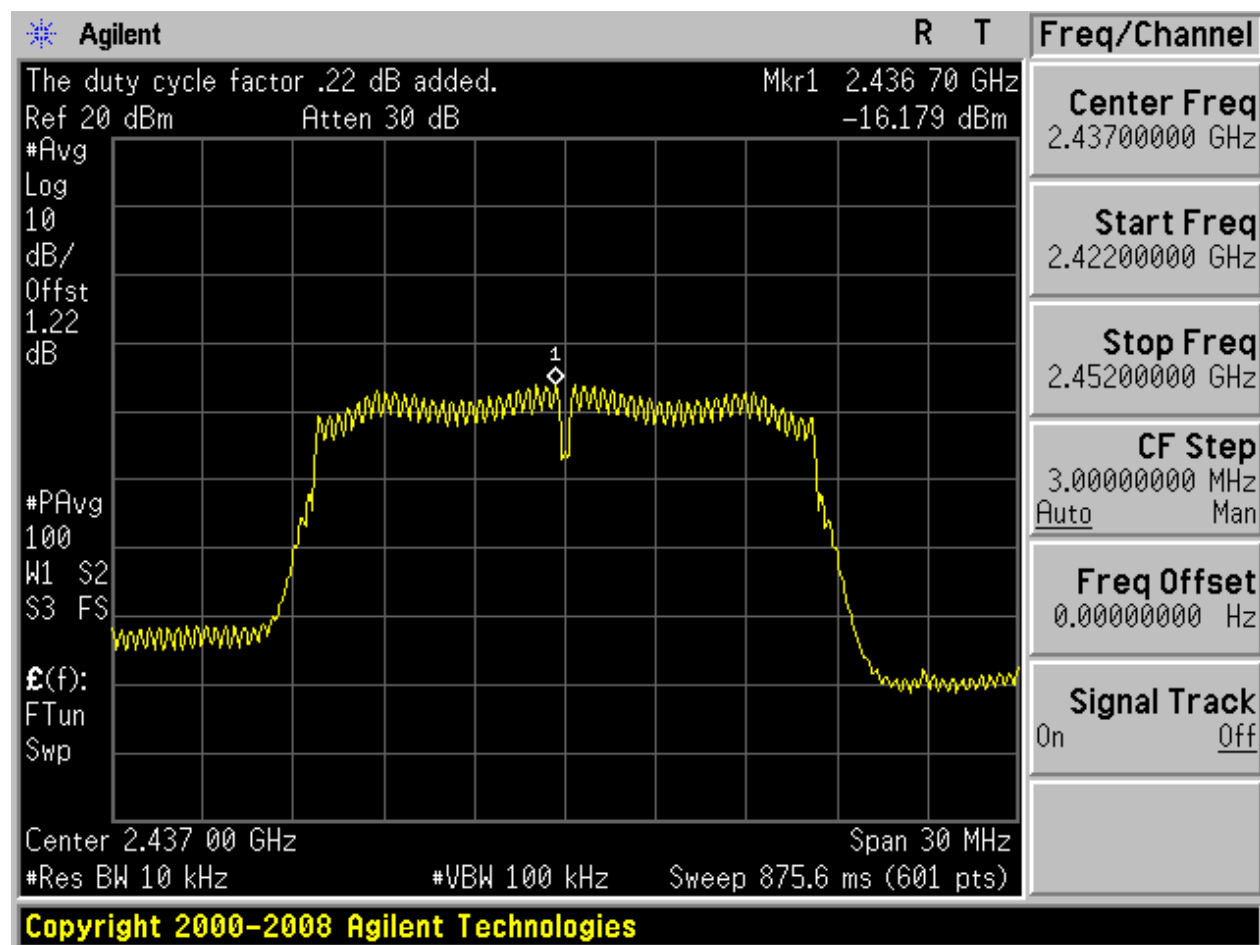


## 2.8 11G\_L@Ant 2



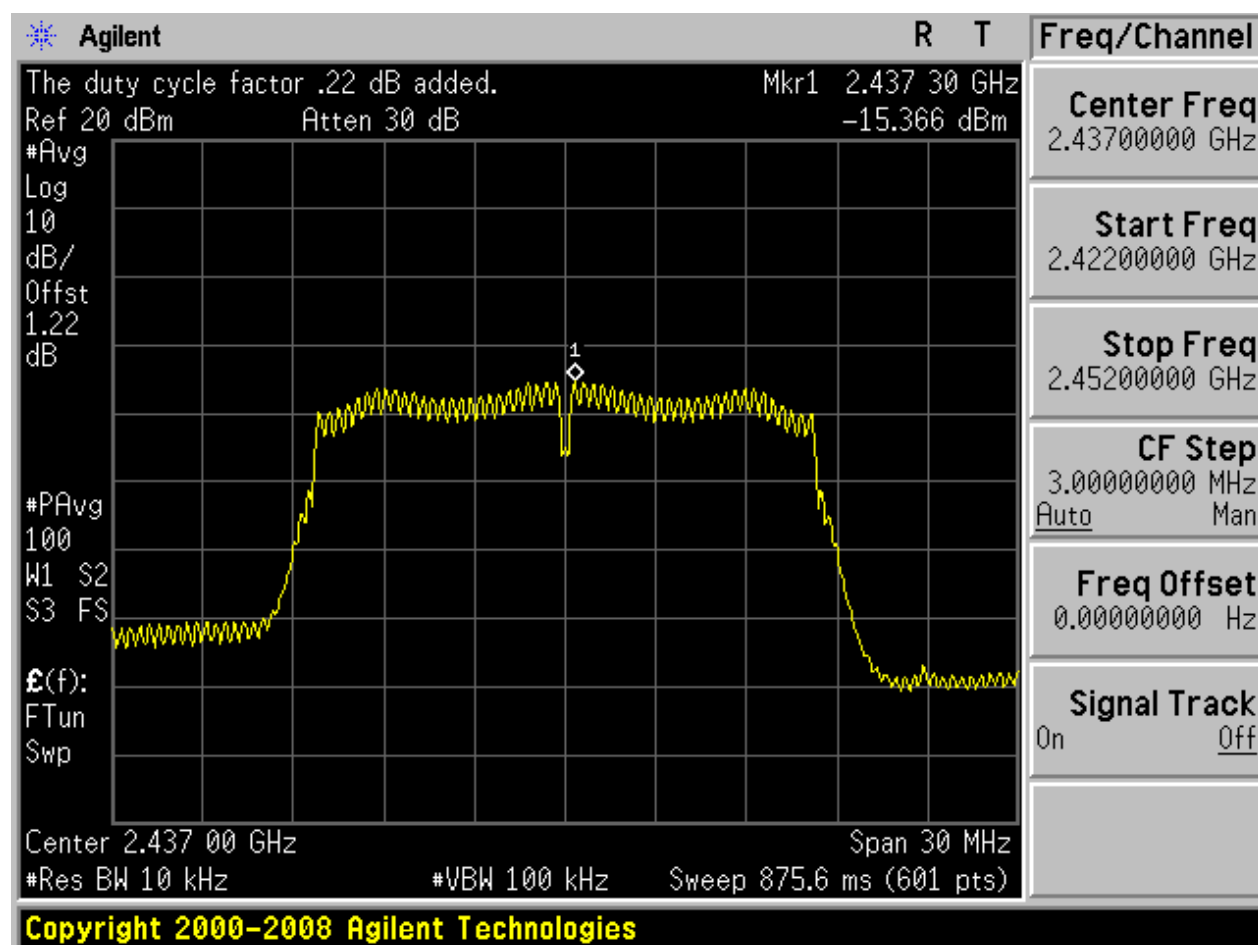


## 2.9 11G\_M@Ant 1



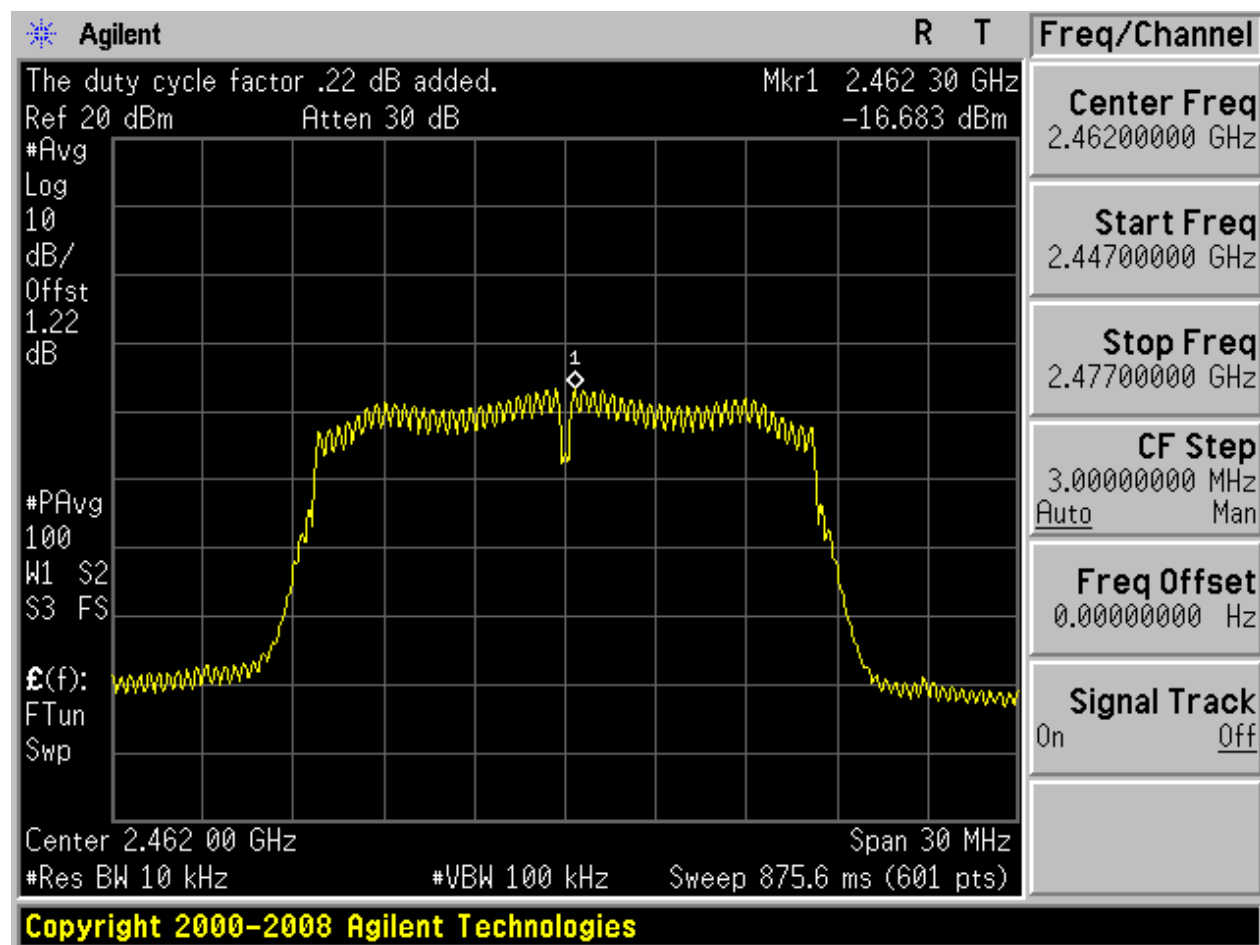


## 2.10 11G\_M@Ant 2



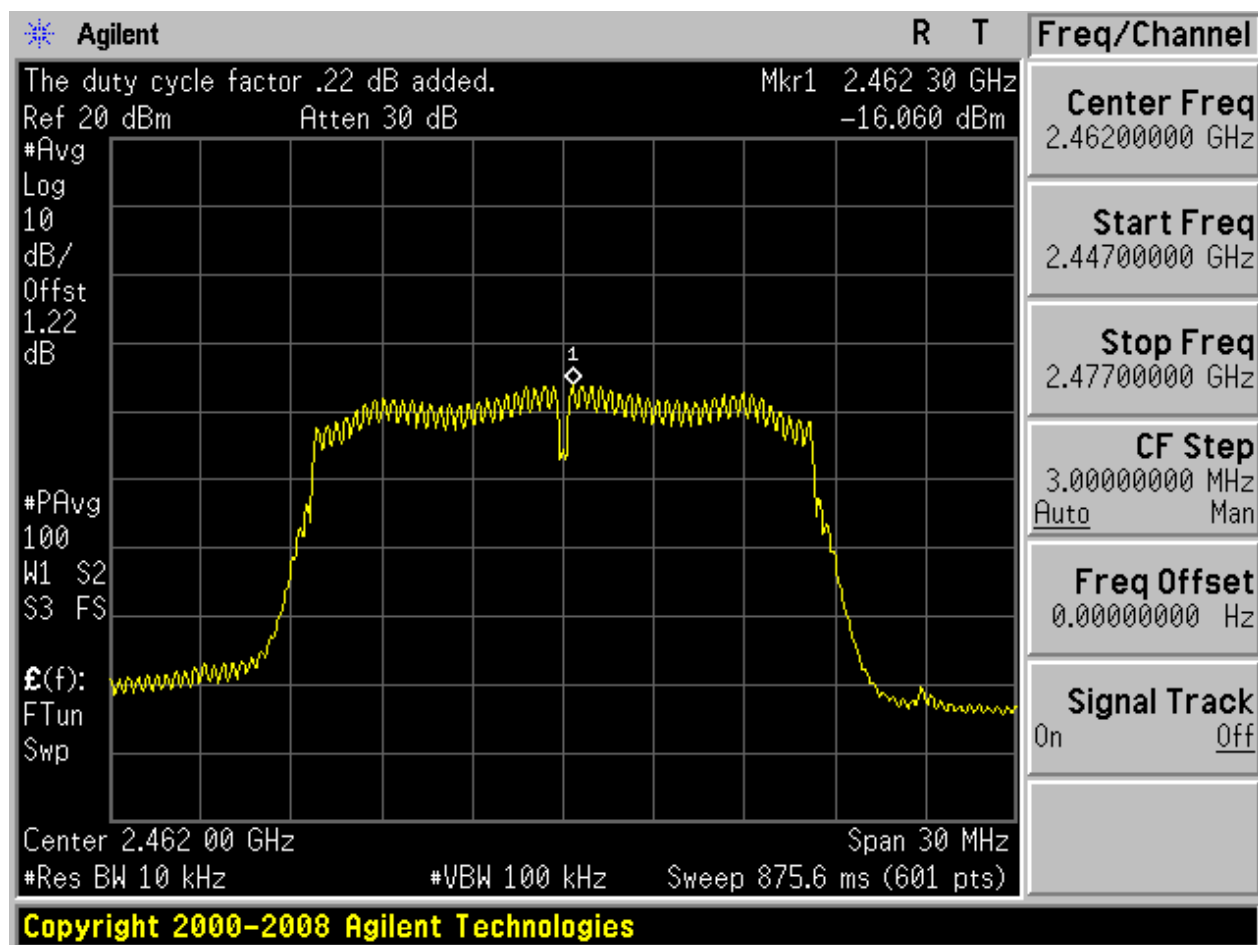


## 2.11 11G\_H@Ant 1

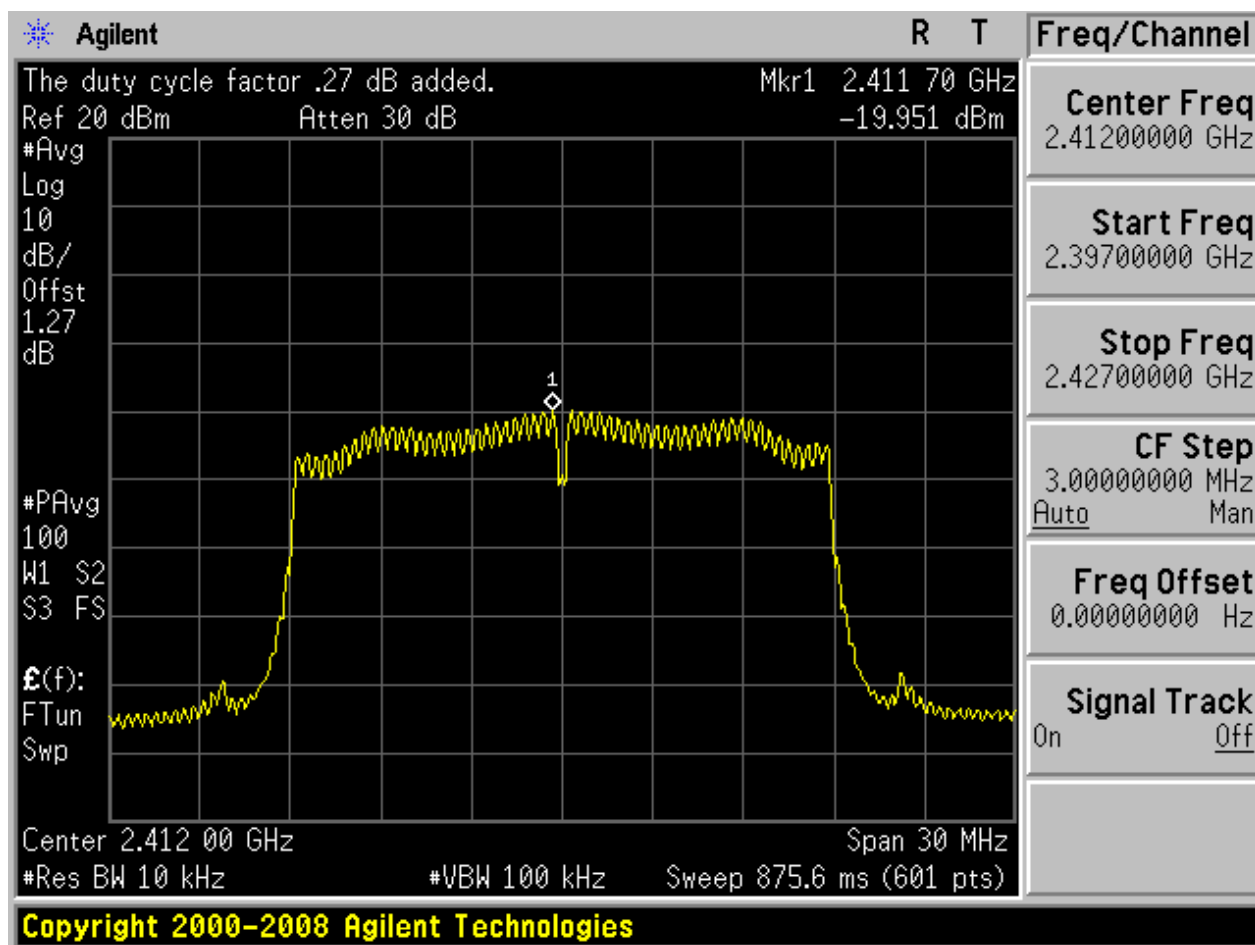




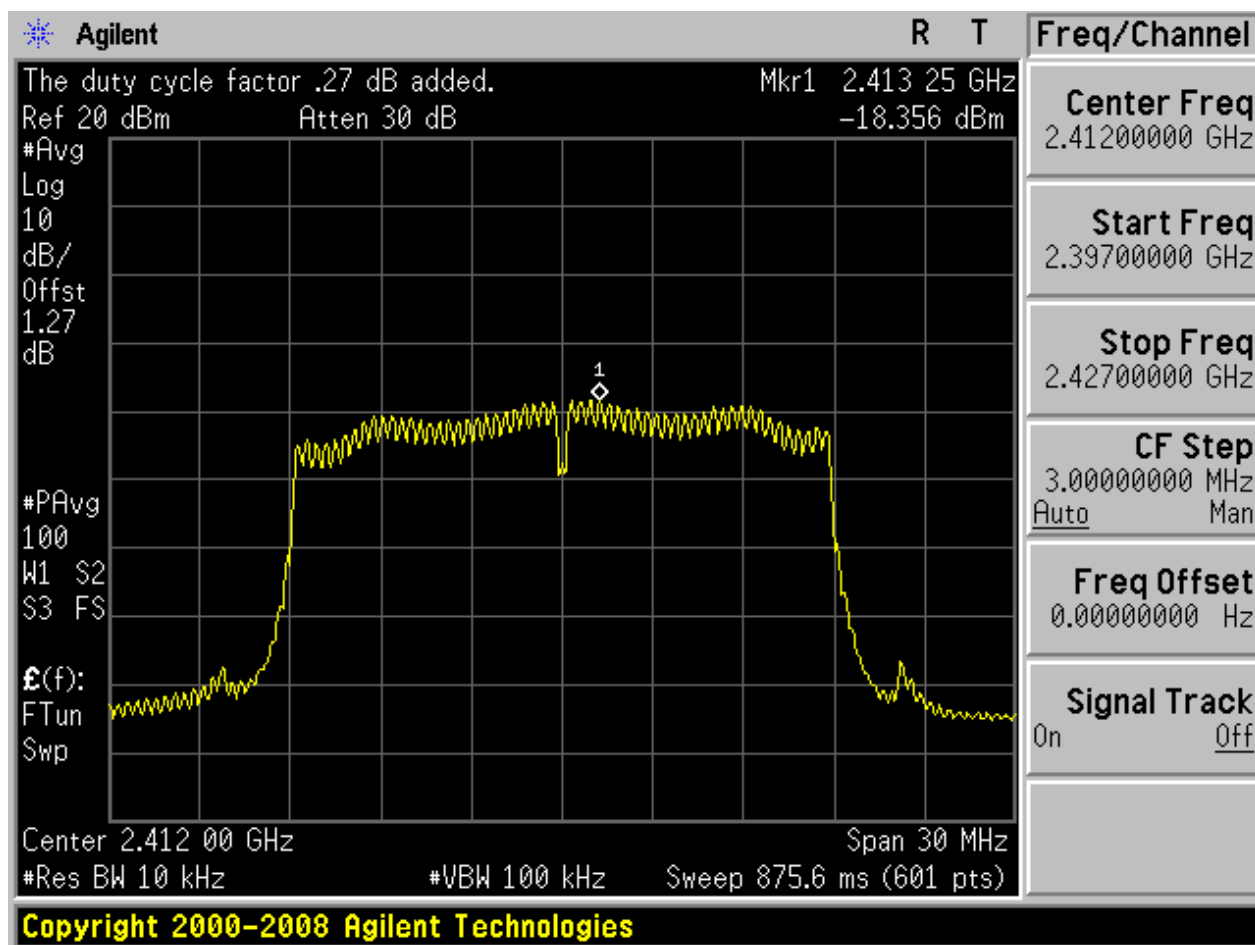
## 2.12 11G\_H@Ant 2



## 2.13 11N20\_L@Ant 1

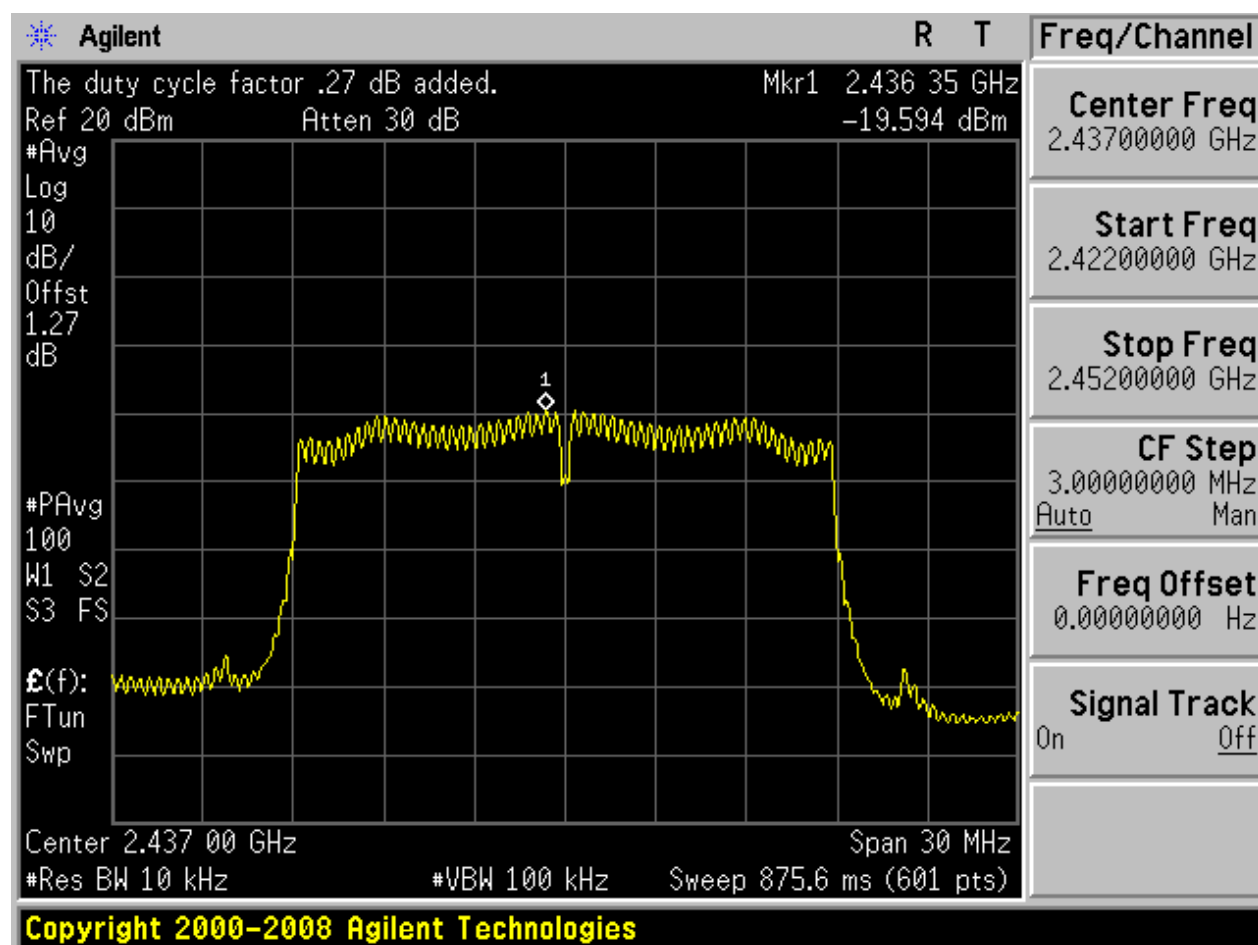


## 2.14 11N20\_L@Ant 2



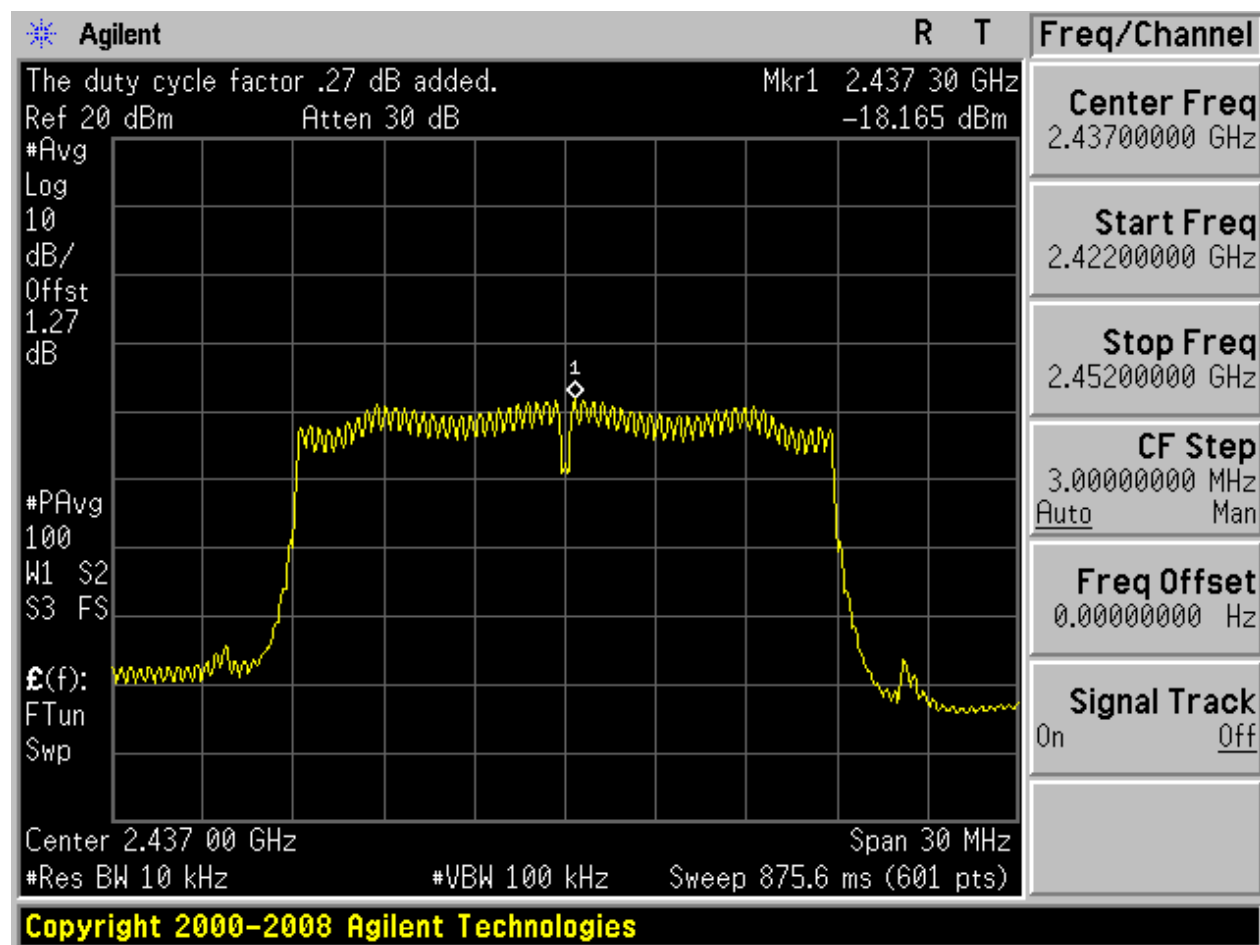


## 2.15 11N20\_M@Ant 1

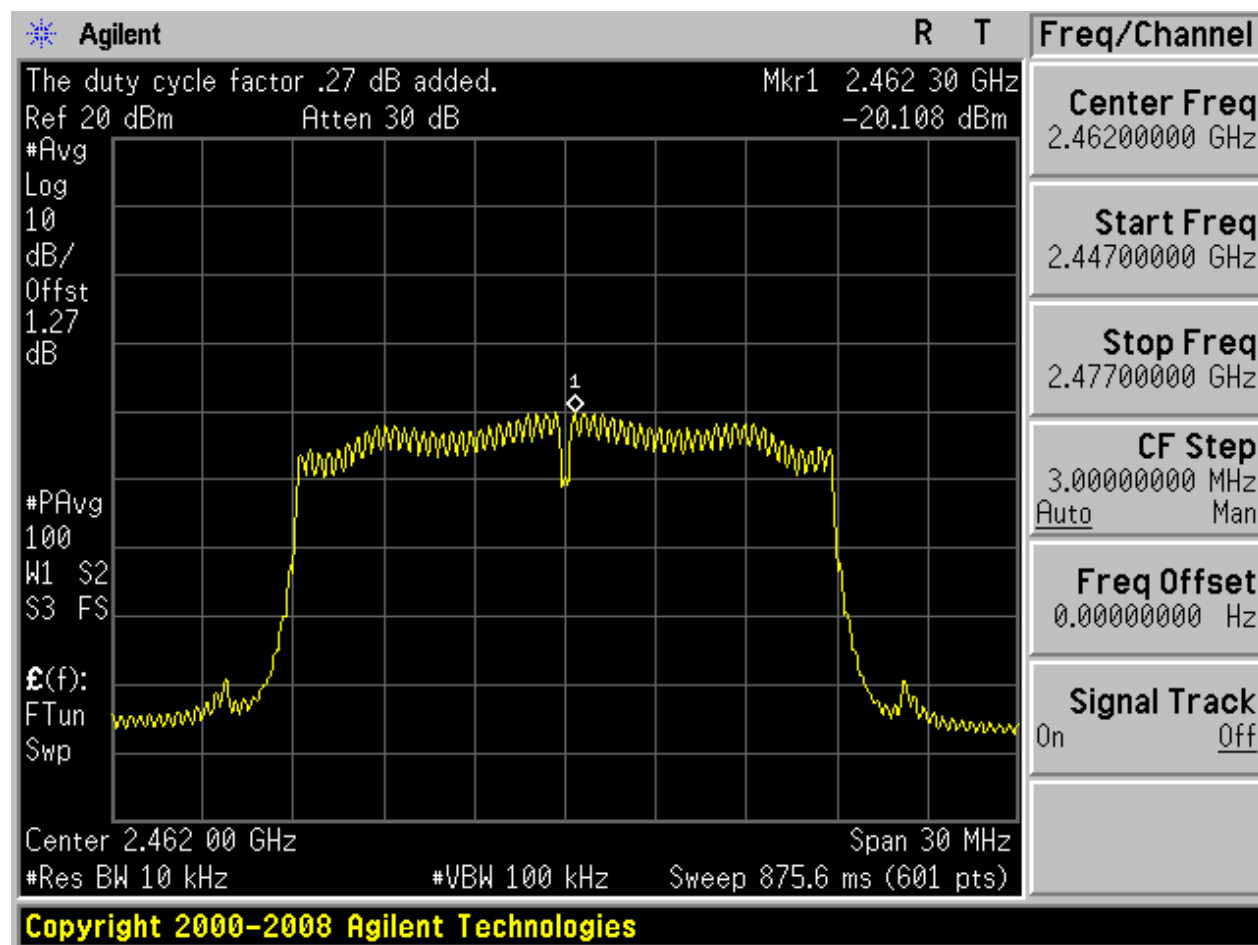




## 2.16 11N20\_M@Ant 2

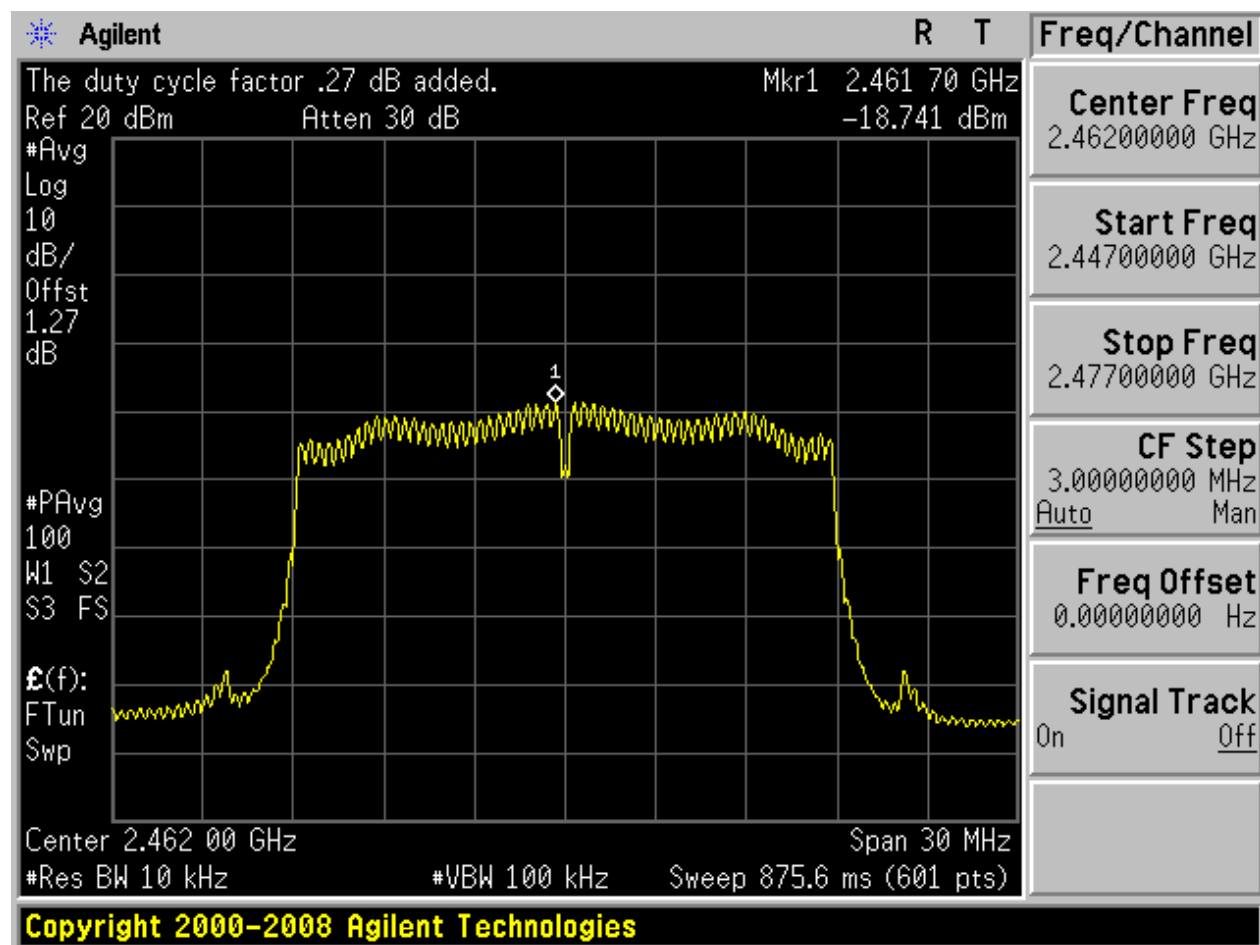


## 2.17 11N20\_H@Ant 1



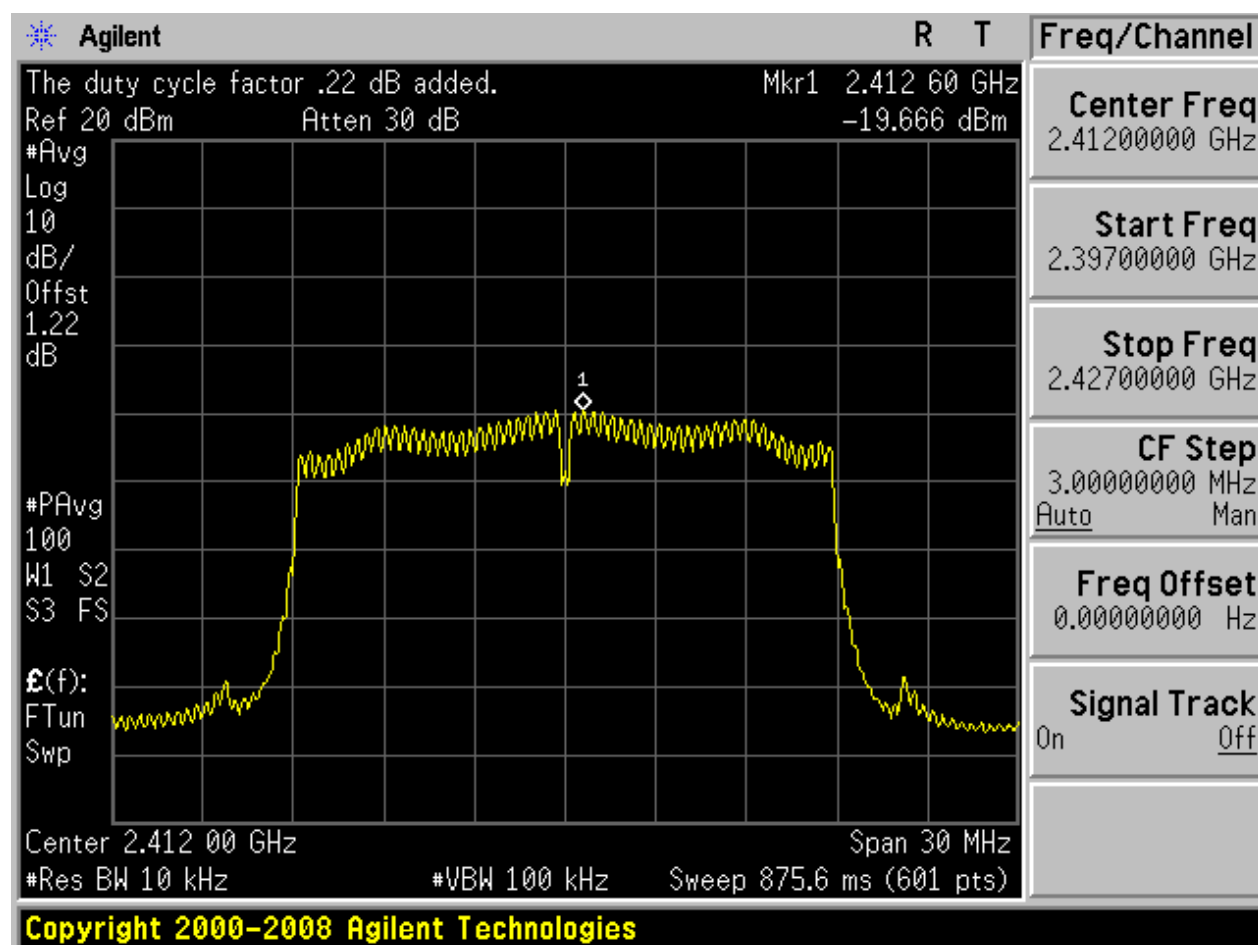


## 2.18 11N20\_H@Ant 2

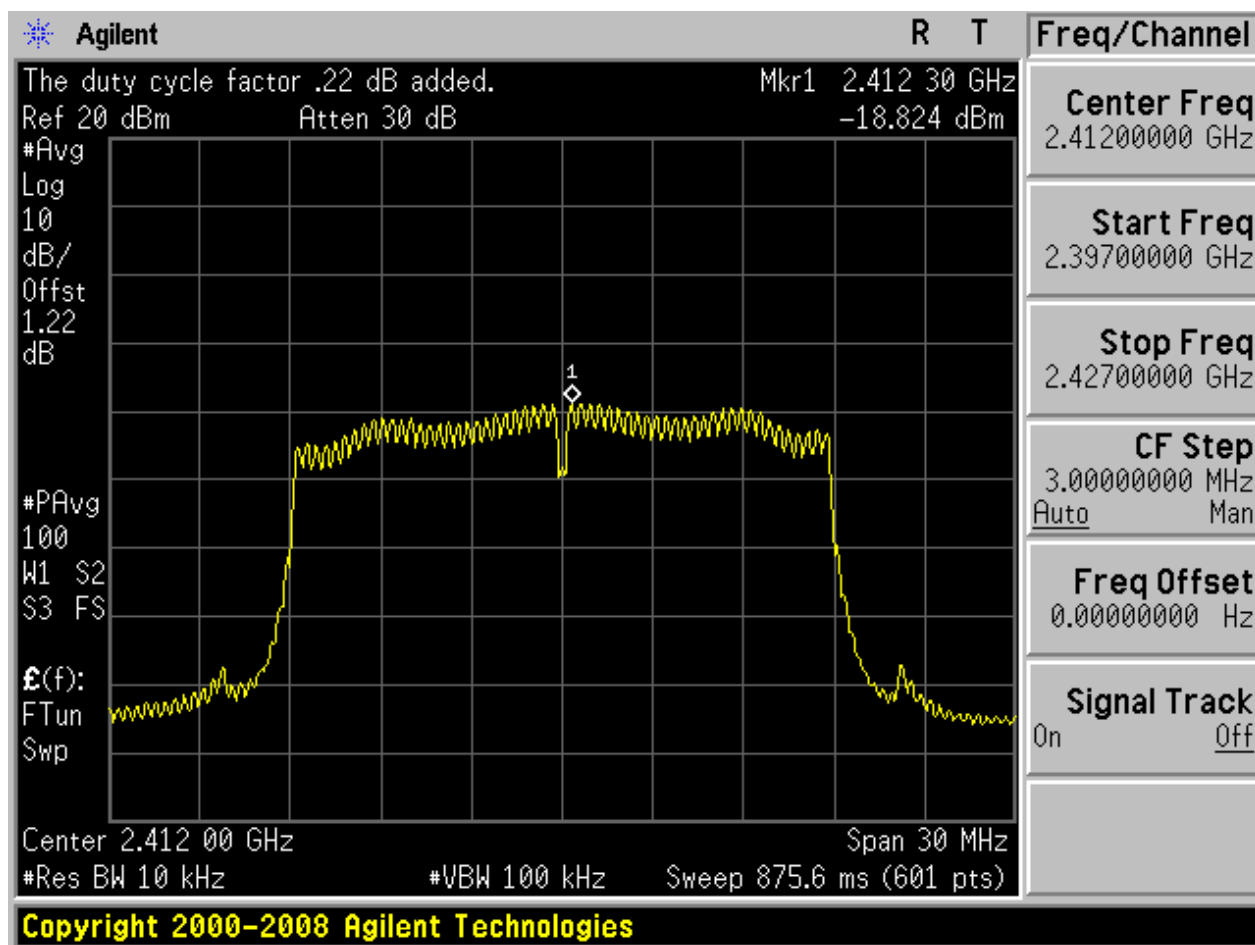




## 2.13 11N20m\_L@Ant 1

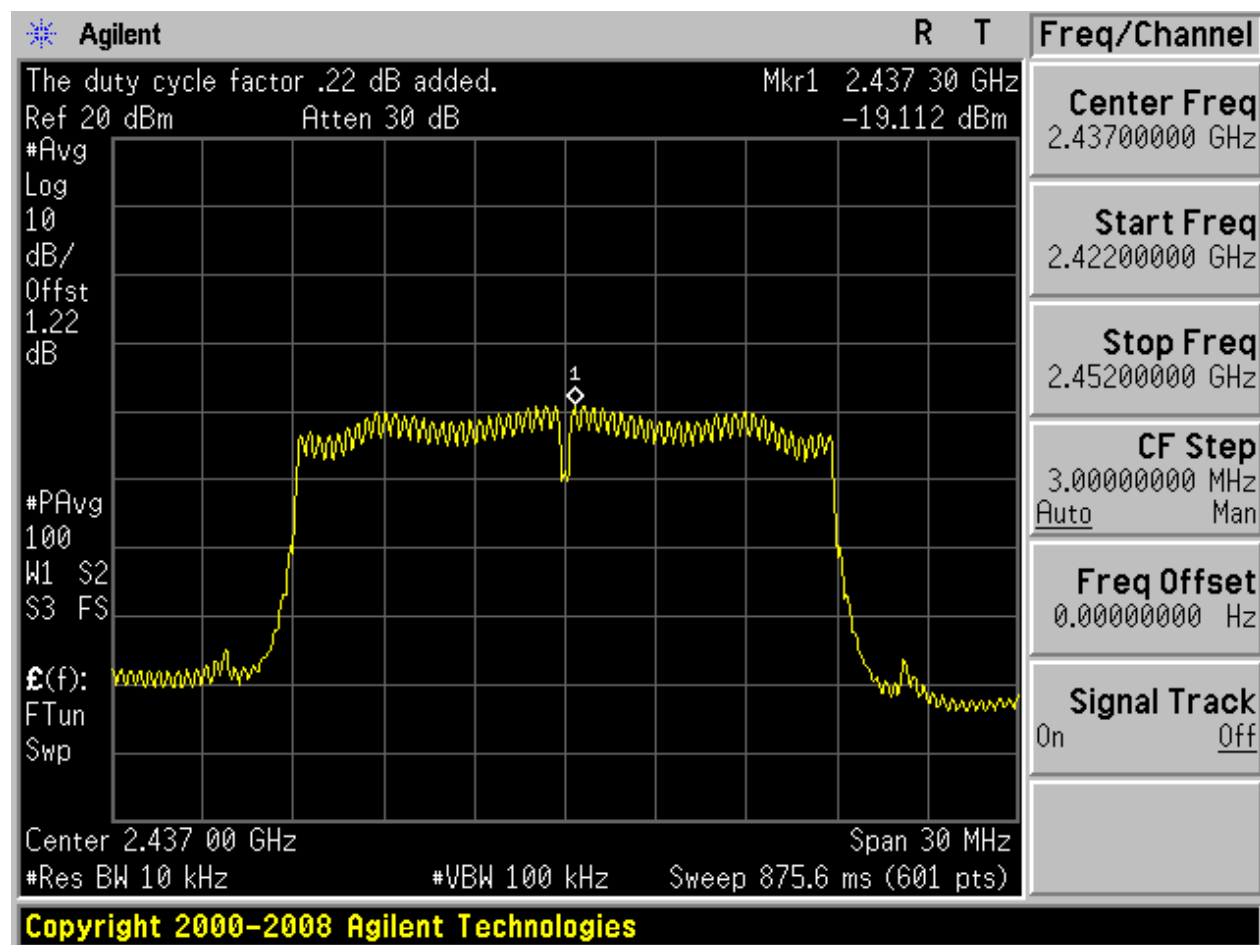


## 2.14 11N20m\_L@Ant 2



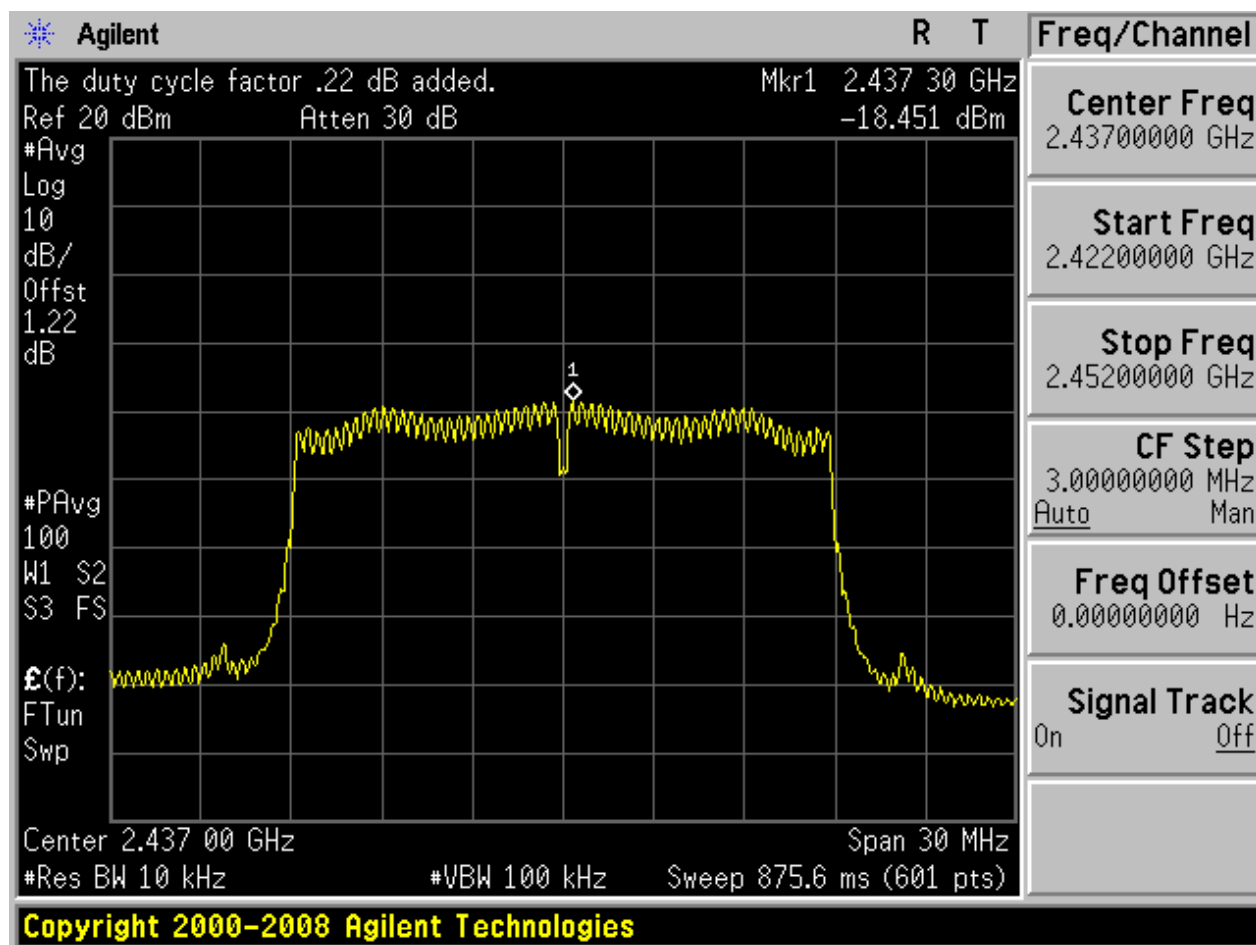


## 2.15 11N20m\_M@Ant 1



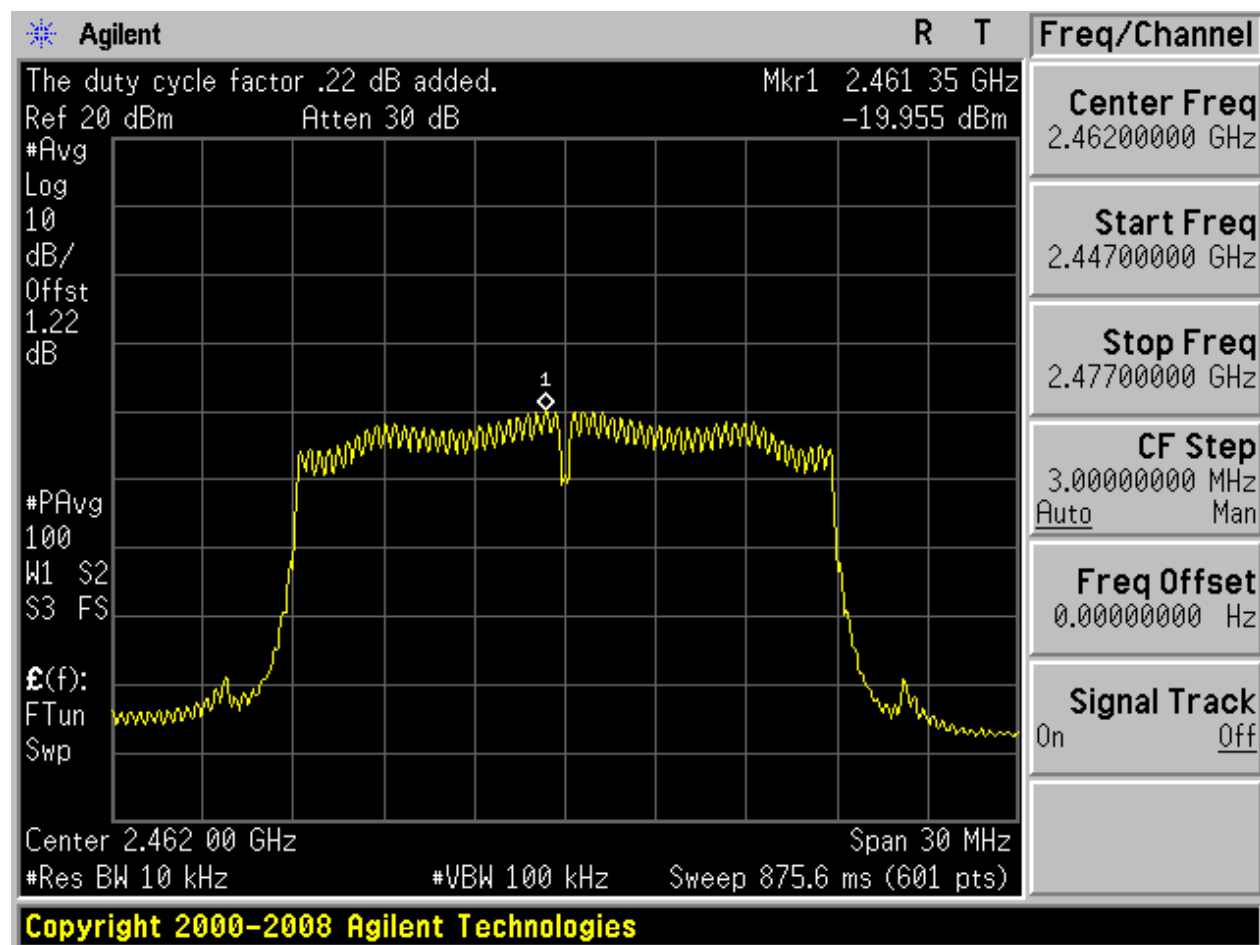


## 2.16 11N20m\_M@Ant 2



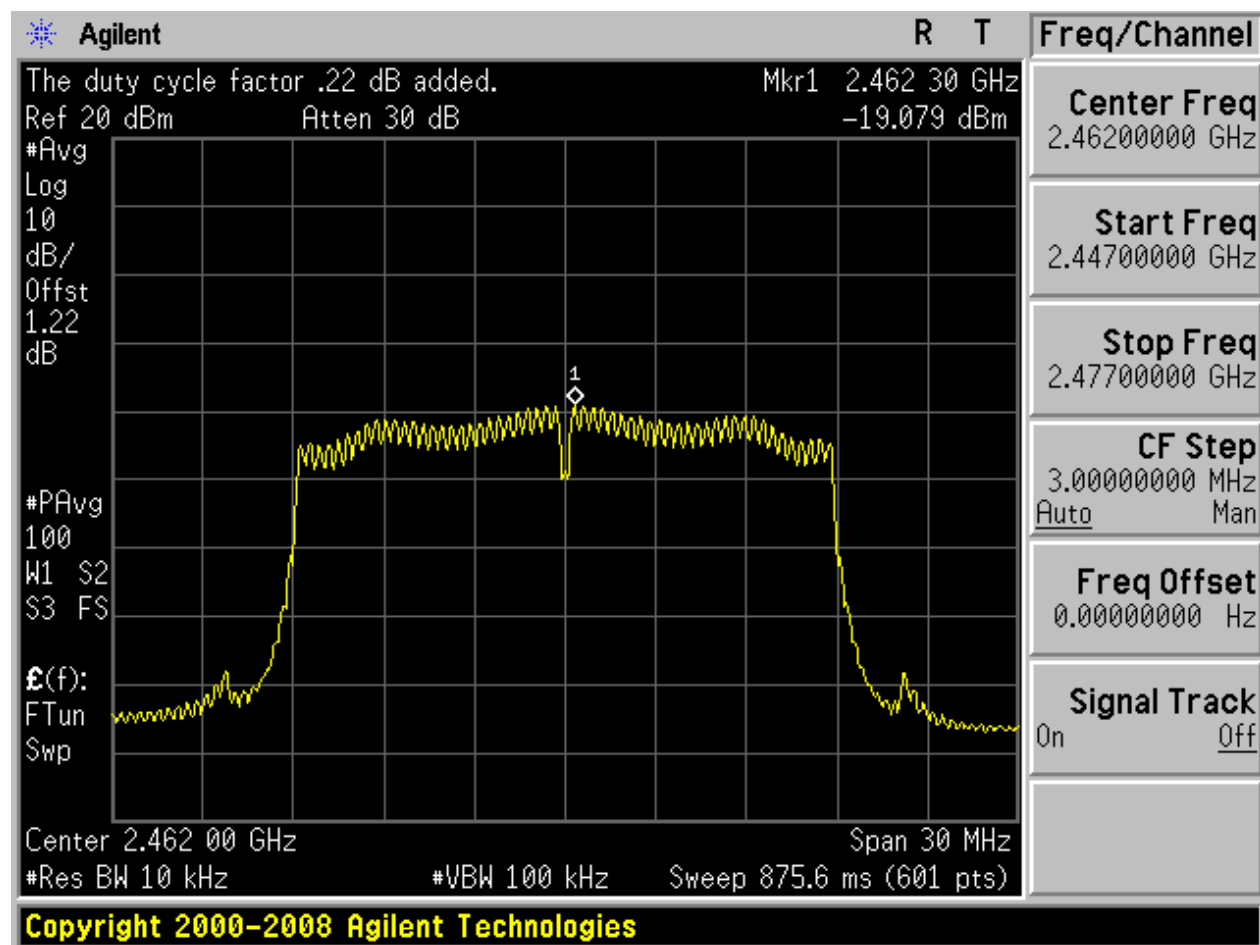


## 2.17 11N20m\_H@Ant 1



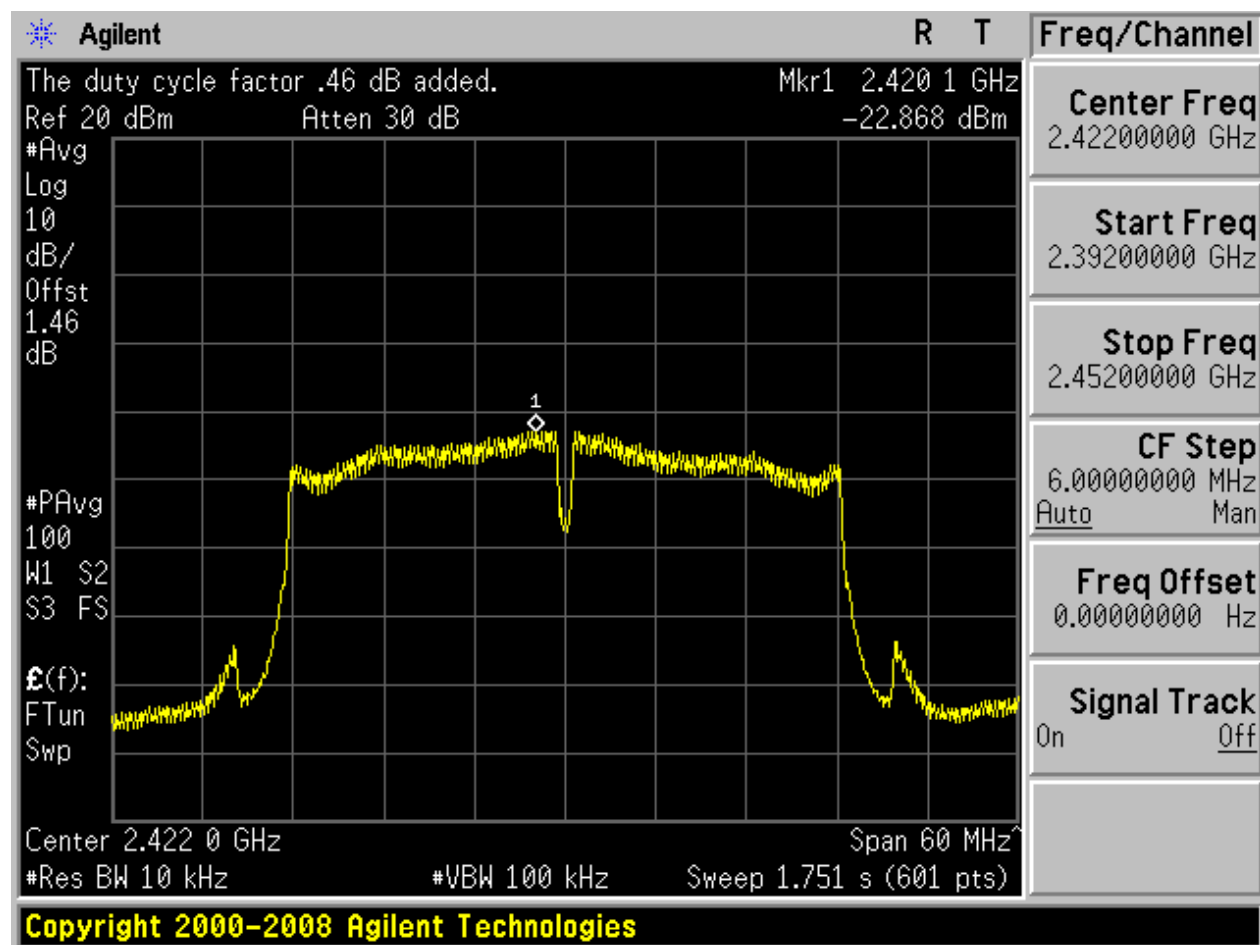


## 2.18 11N20m\_H@Ant 2



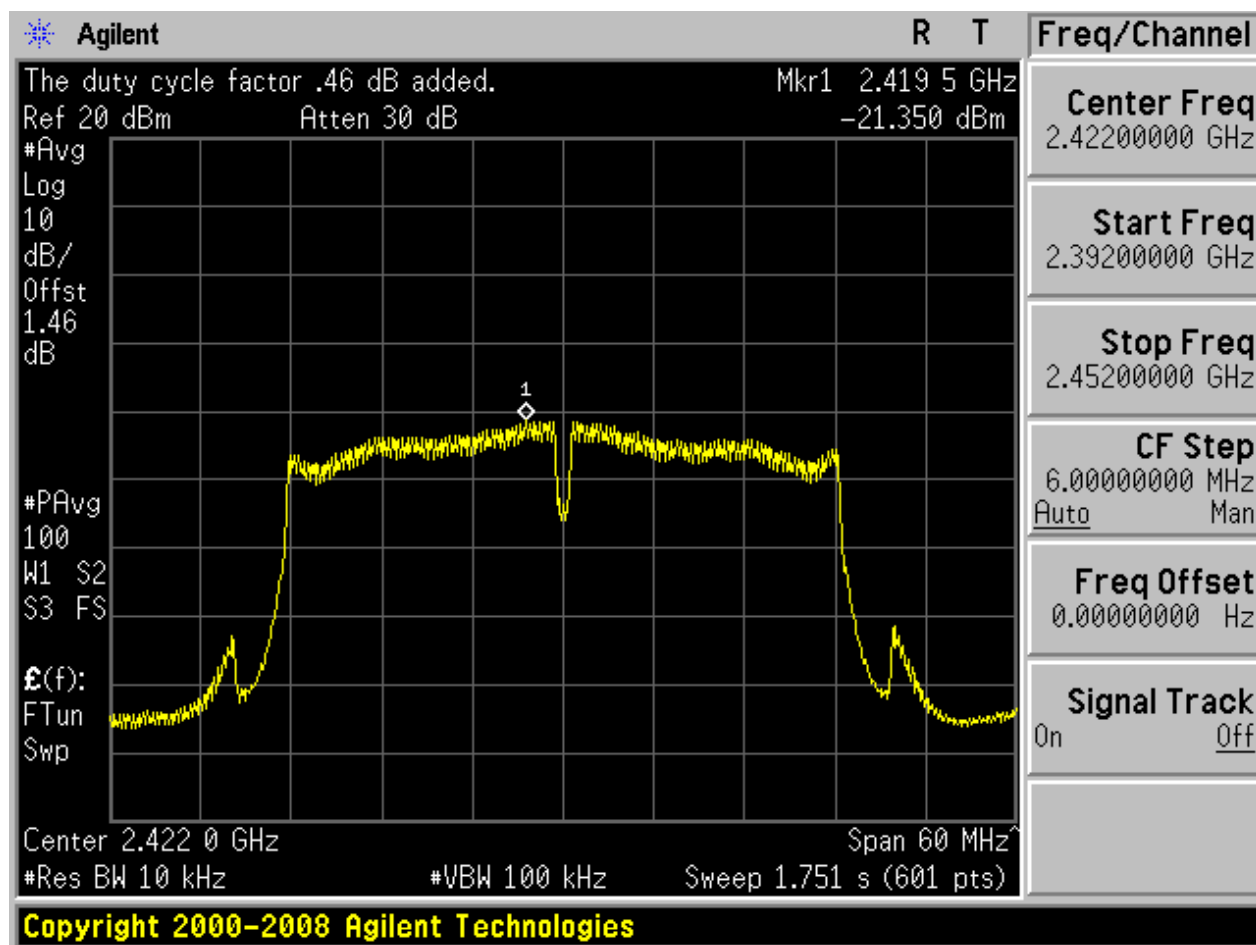


## 2.19 11N40\_L@Ant 1



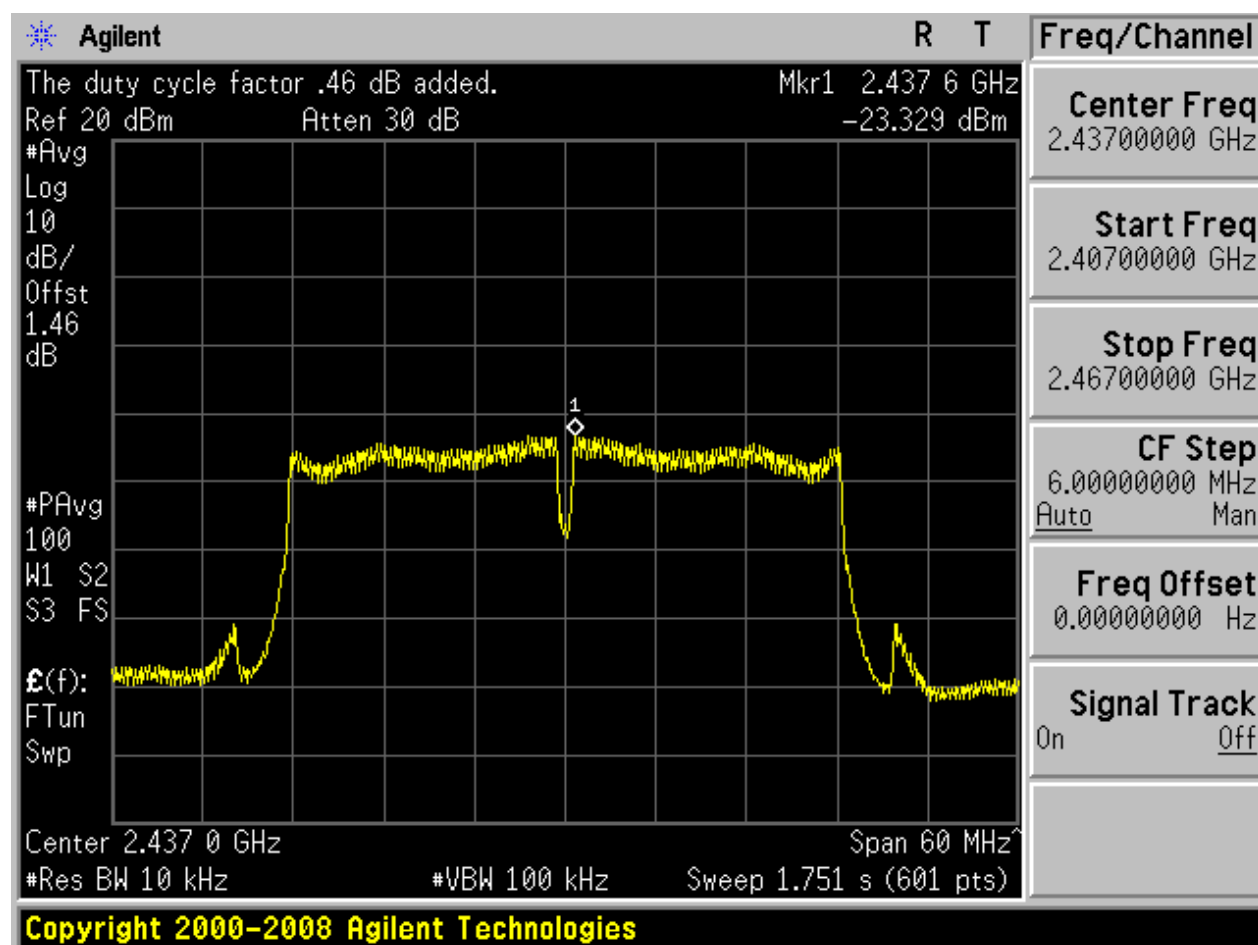


## 2.20 11N40\_L@Ant 2



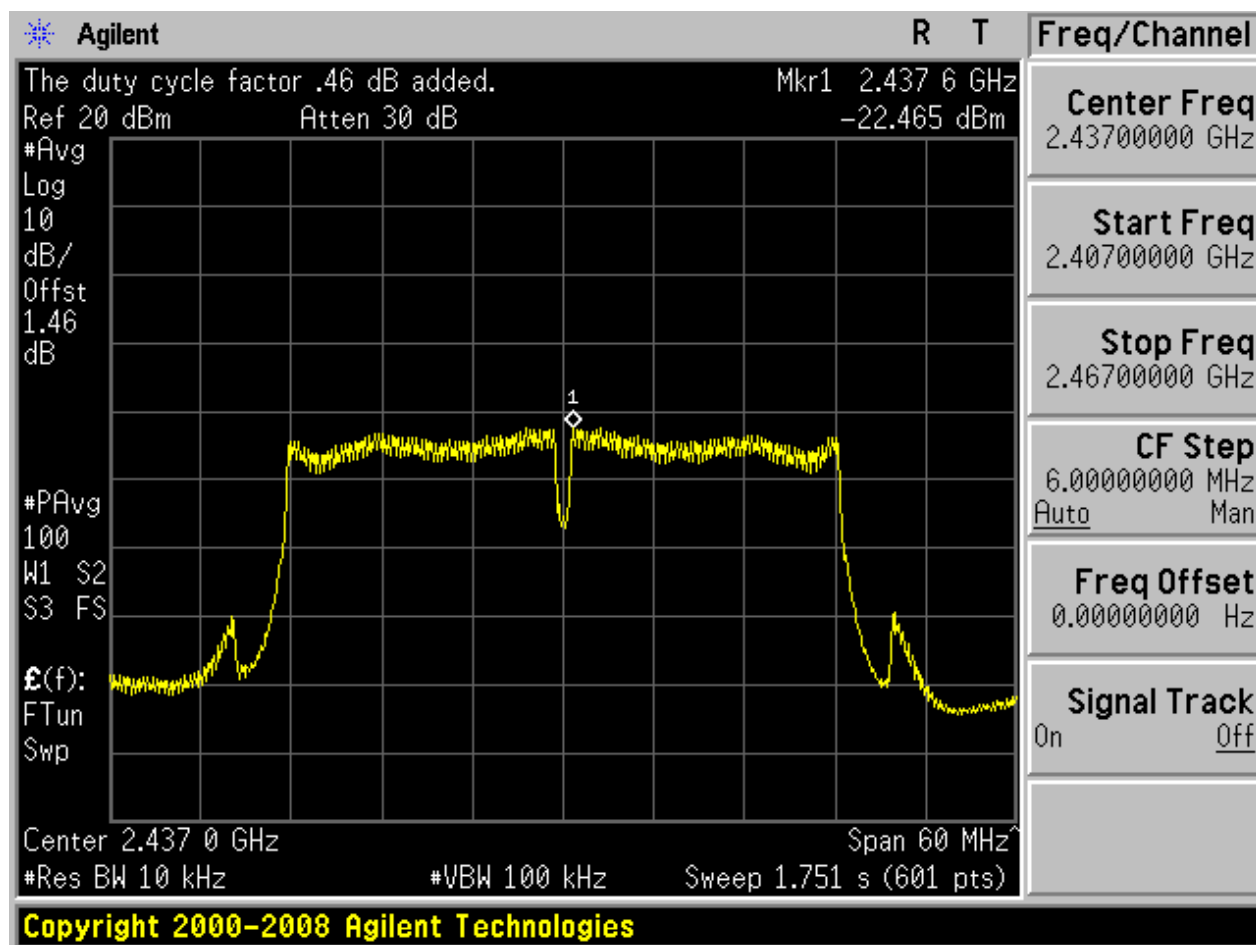


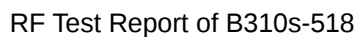
## 2.21 11N40\_M@Ant 1





## 2.22 11N40\_M@Ant 2





**Agilent** R T

The duty cycle factor .46 dB added. Mkr1 2.454 5 GHz  
 Ref 20 dB Atten 30 dB -23.081 dBm

#Avg 10  
 Log  
 dB/  
 Offst 1.46  
 dB

#PAvg 100  
 W1 S2  
 S3 FS

£(f):  
 FTun  
 Swp

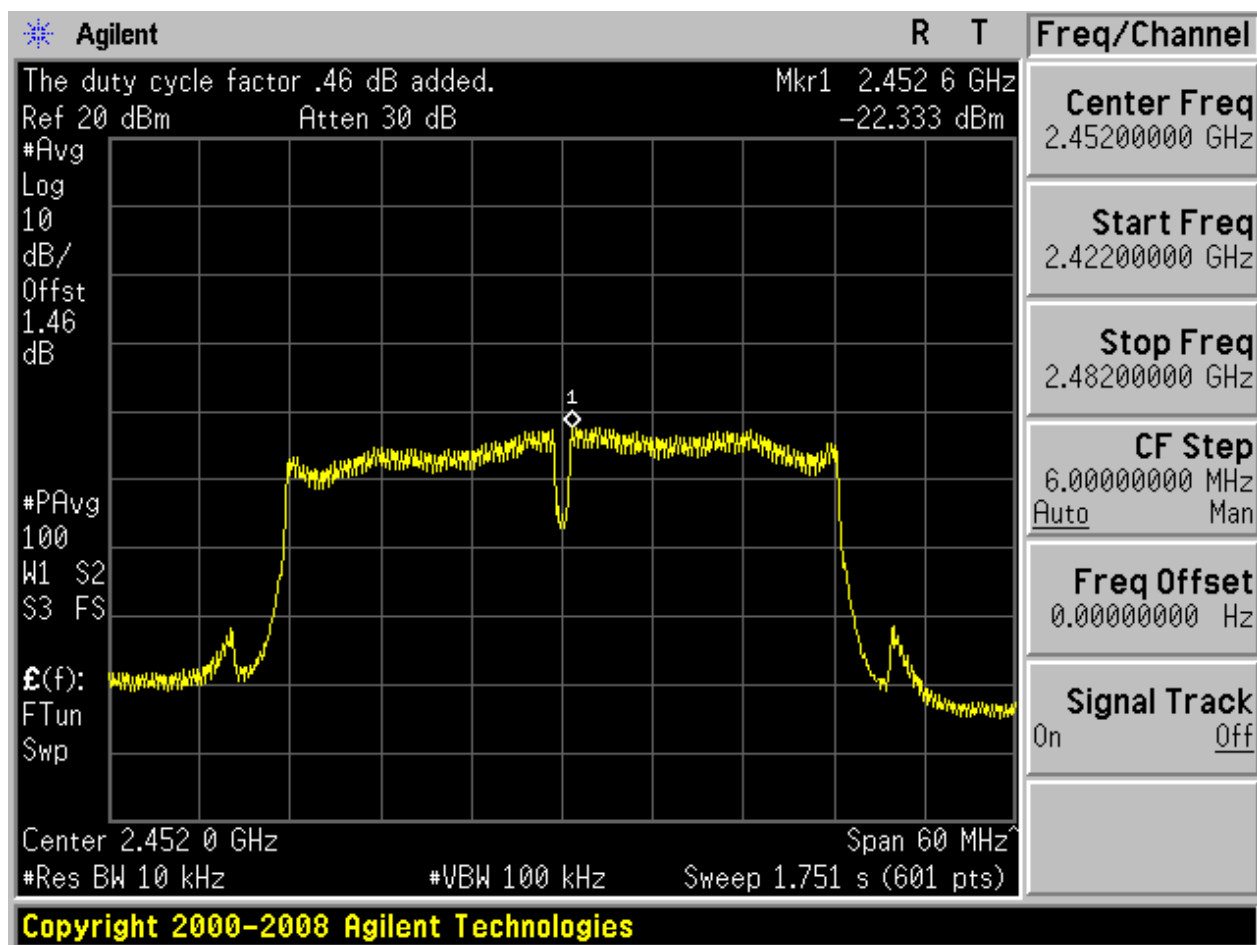
Center 2.452 0 GHz Span 60 MHz  
 #Res BW 10 kHz #VBW 100 kHz Sweep 1.751 s (601 pts)

**Freq/Channel**  
 Center Freq 2.45200000 GHz  
 Start Freq 2.42200000 GHz  
 Stop Freq 2.48200000 GHz  
 CF Step 6.00000000 MHz  
 Auto Man  
 Freq Offset 0.00000000 Hz  
 Signal Track On Off

**Copyright 2000-2008 Agilent Technologies**

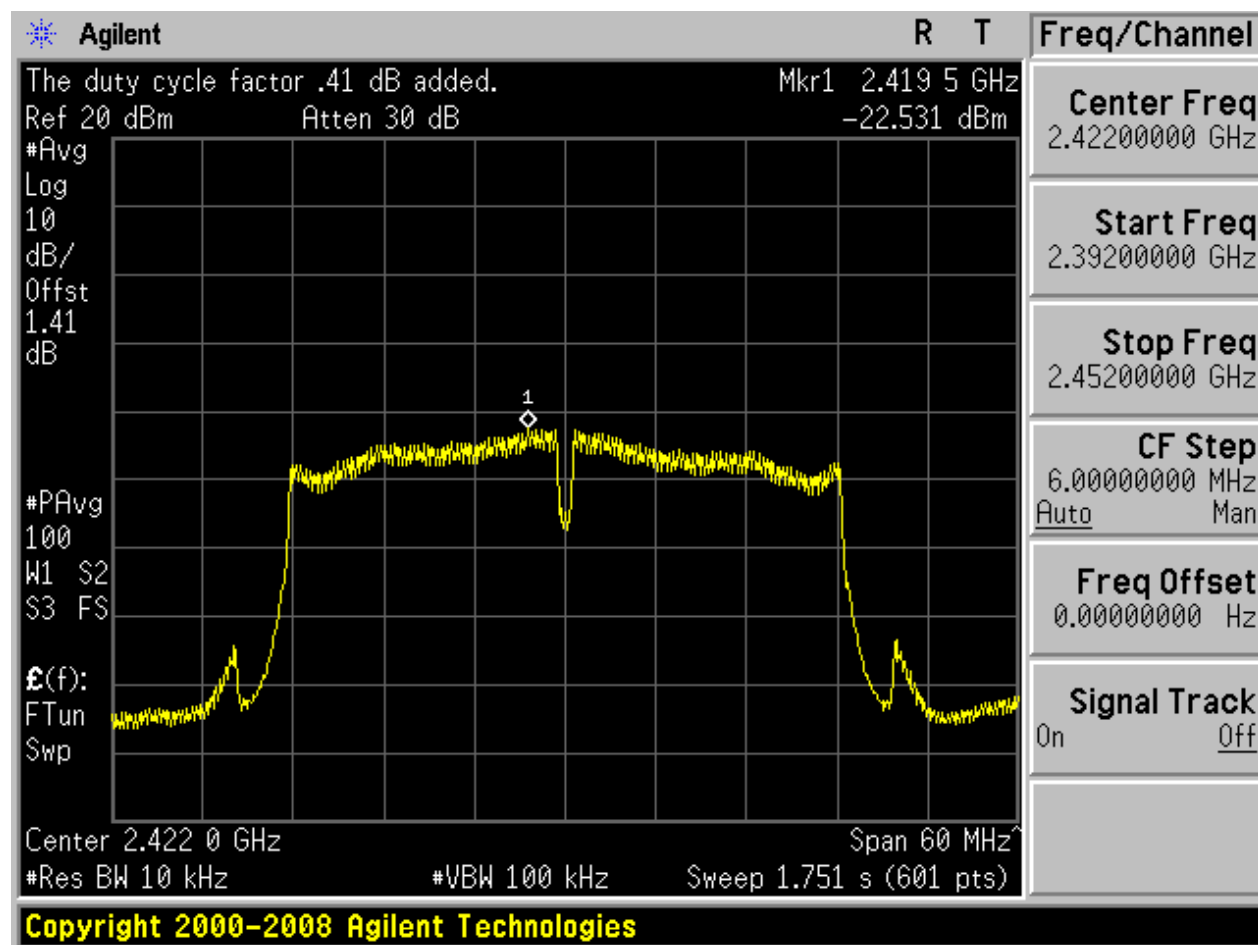


## 2.24 11N40\_H@Ant 2



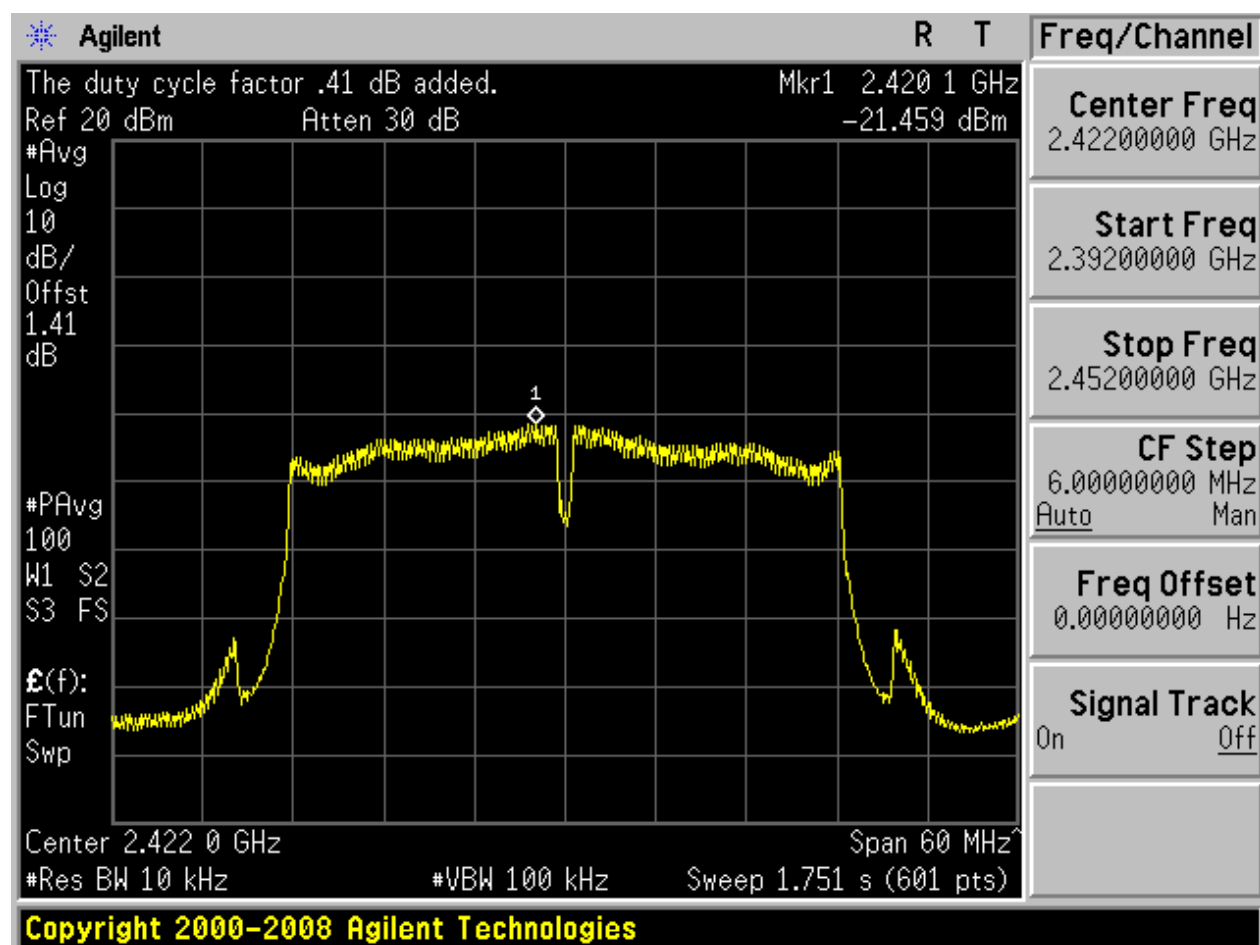


## 2.31 11N40m\_L@Ant 1

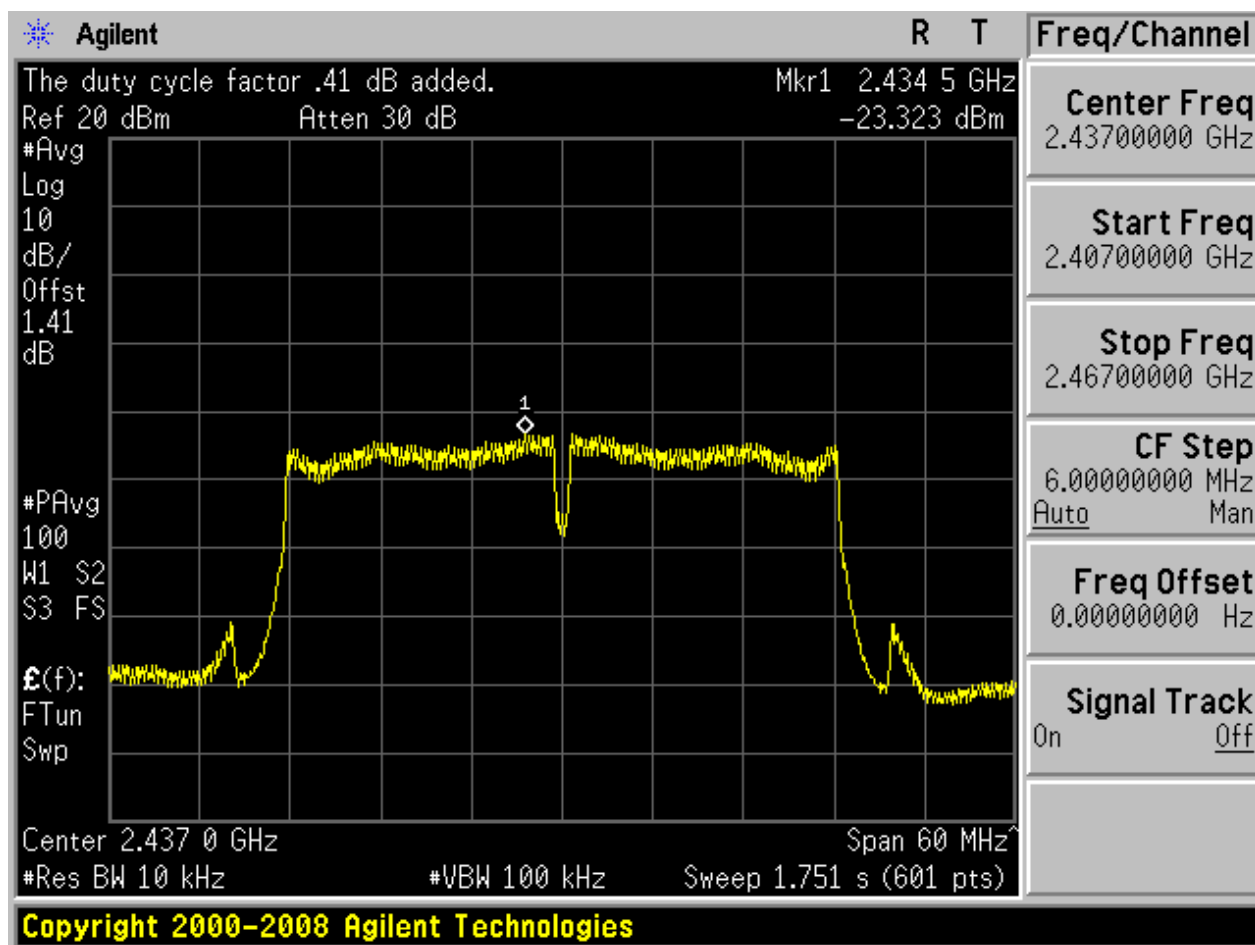




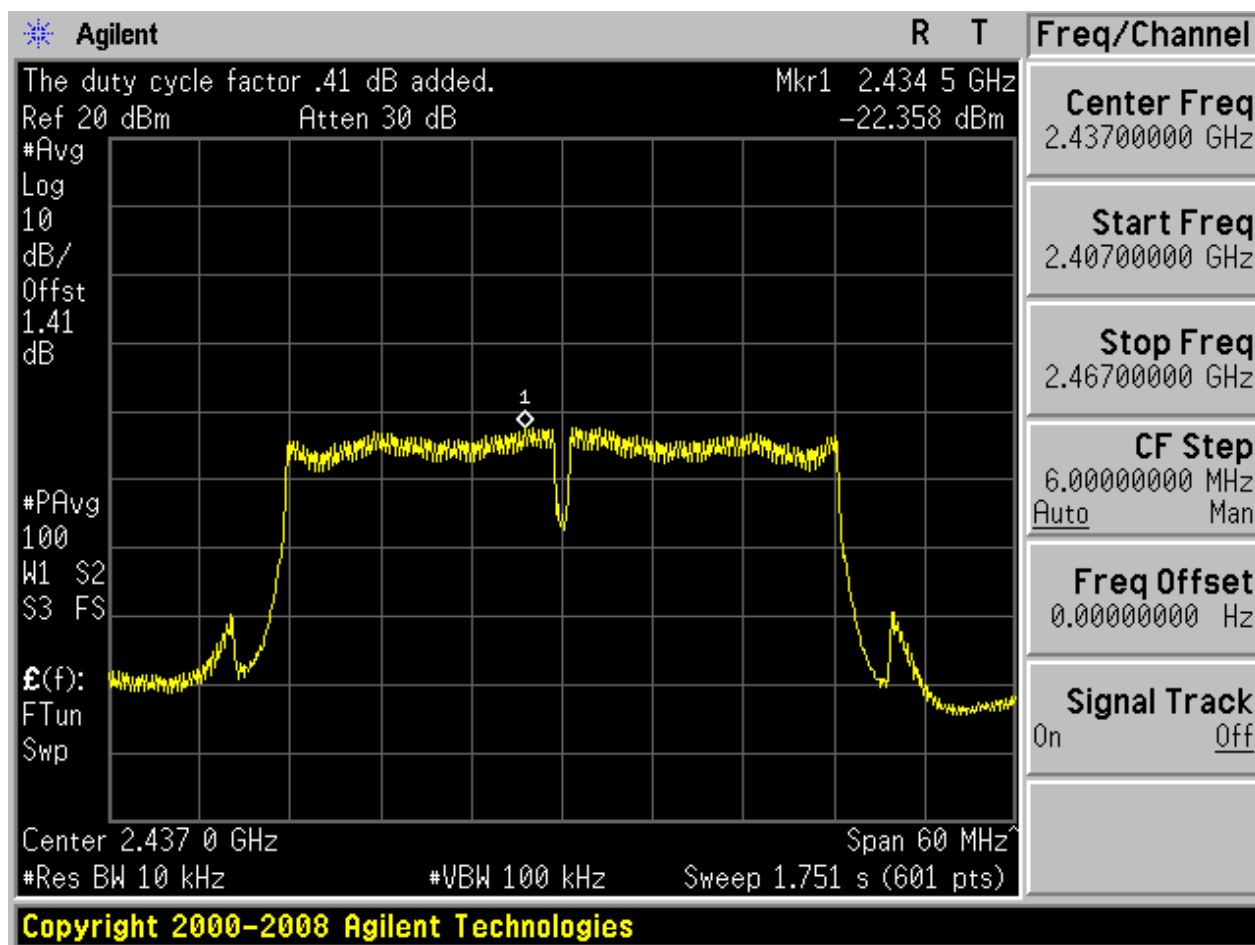
## 2.32 11N40m\_L@Ant 2



### 2.33 11N40m\_M@Ant 1

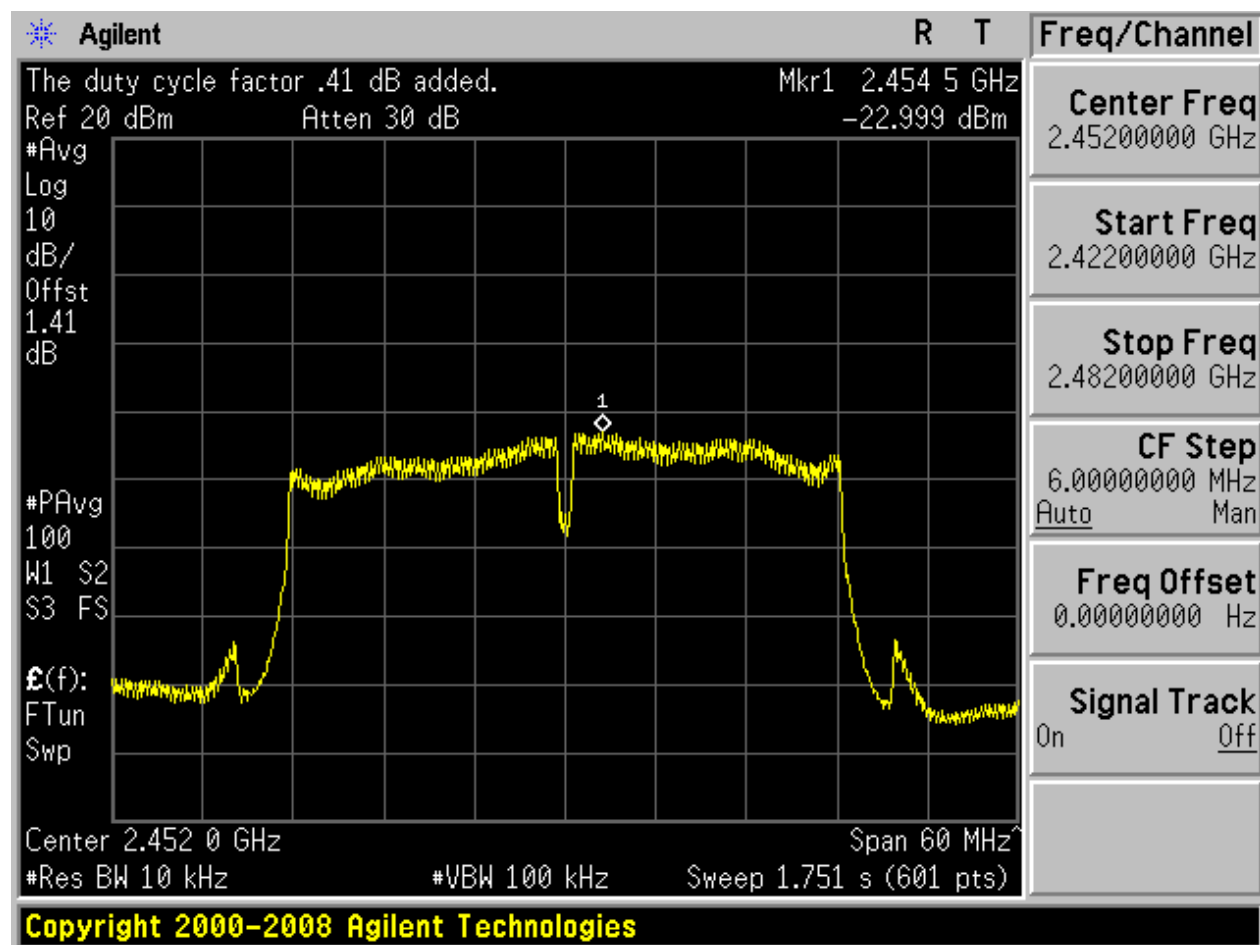


## 2.34 11N40m\_M@Ant 2

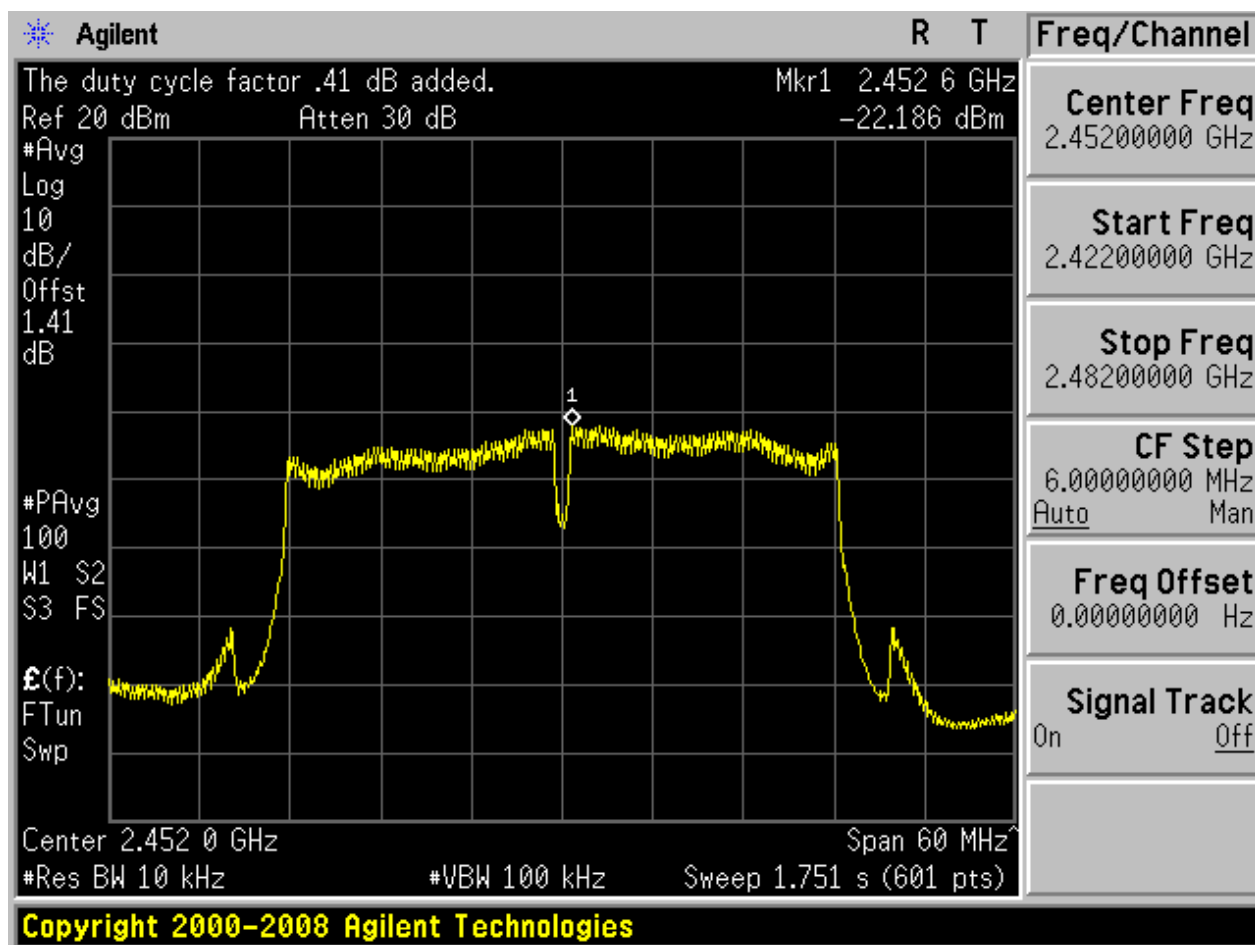




## 2.35 11N40m\_H@Ant 1



## 2.36 11N40m\_H@Ant 2



## Appendix E: Band Edges Compliance

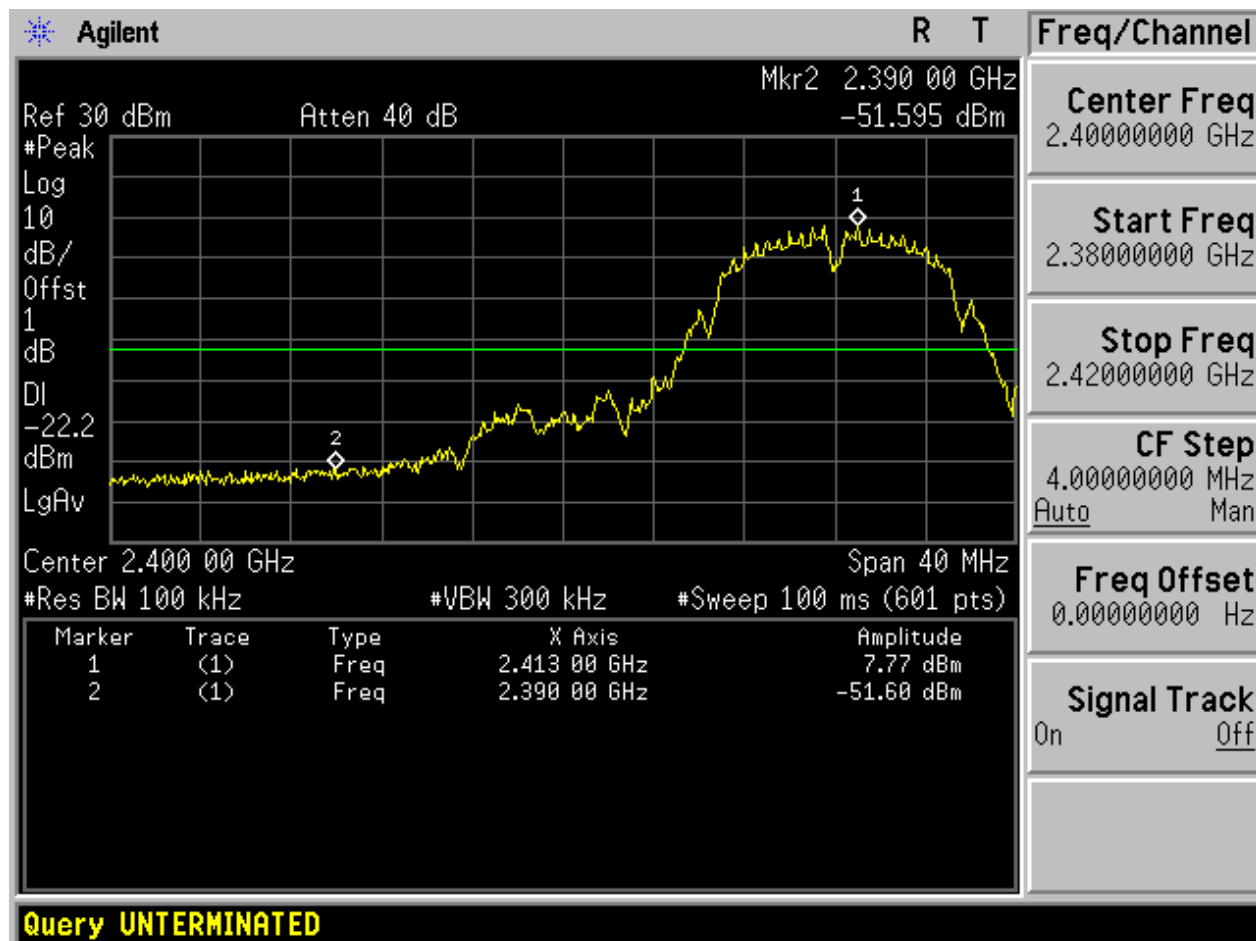
### Part I - Test Results

| Test Mode | Test Channel | Frequency[MHz] | Ant   | Carrier Power[dBm] | Max.Spurious Level[dBm] | Verdict |
|-----------|--------------|----------------|-------|--------------------|-------------------------|---------|
| 11B       | L            | 2412           | Ant 1 | 7.77               | -51.60                  | pass    |
| 11B       | L            | 2412           | Ant 2 | 8.42               | -53.31                  | pass    |
| 11B       | H            | 2462           | Ant 1 | 6.93               | -47.12                  | pass    |
| 11B       | H            | 2462           | Ant 2 | 7.97               | -47.90                  | pass    |
| 11G       | L            | 2412           | Ant 1 | .40                | -49.34                  | pass    |
| 11G       | L            | 2412           | Ant 2 | 1.49               | -50.85                  | pass    |
| 11G       | H            | 2462           | Ant 1 | .33                | -45.78                  | pass    |
| 11G       | H            | 2462           | Ant 2 | 1.76               | -44.84                  | pass    |
| 11N20     | L            | 2412           | Ant 1 | -1.73              | -52.48                  | pass    |
| 11N20     | L            | 2412           | Ant 2 | -.40               | -51.70                  | pass    |
| 11N20     | H            | 2462           | Ant 1 | -1.67              | -49.18                  | pass    |
| 11N20     | H            | 2462           | Ant 2 | -.64               | -47.17                  | pass    |
| 11N20m    | L            | 2412           | Ant 1 | -1.67              | -50.80                  | pass    |
| 11N20m    | L            | 2412           | Ant 2 | -.46               | -50.61                  | pass    |
| 11N20m    | H            | 2462           | Ant 1 | -1.37              | -47.82                  | pass    |
| 11N20m    | H            | 2462           | Ant 2 | -1.28              | -46.79                  | pass    |
| 11N40     | L            | 2422           | Ant 1 | -4.18              | -47.14                  | pass    |
| 11N40     | L            | 2422           | Ant 2 | -2.39              | -47.71                  | pass    |

| Test Mode | Test Channel | Frequency[MHz] | Ant   | Carrier Power[dBm] | Max.Spurious Level[dBm] | Verdict |
|-----------|--------------|----------------|-------|--------------------|-------------------------|---------|
| 11N40     | H            | 2452           | Ant 1 | -4.28              | -44.72                  | pass    |
| 11N40     | H            | 2452           | Ant 2 | -3.58              | -45.19                  | pass    |
| 11N40m    | L            | 2422           | Ant 1 | -4.01              | -48.65                  | pass    |
| 11N40m    | L            | 2422           | Ant 2 | -2.92              | -45.77                  | pass    |
| 11N40m    | H            | 2452           | Ant 1 | -4.78              | -44.14                  | pass    |
| 11N40m    | H            | 2452           | Ant 2 | -3.44              | -45.63                  | pass    |

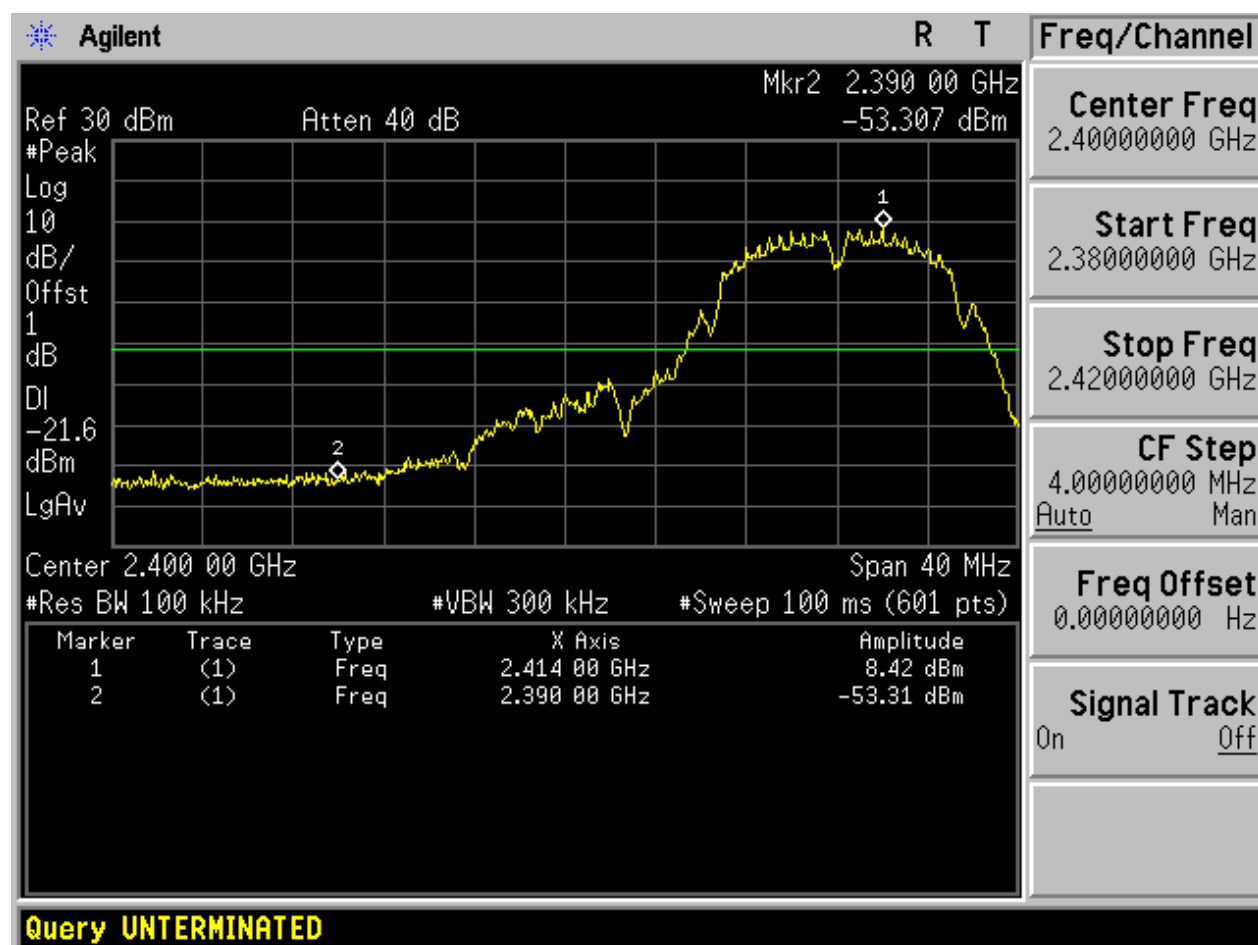
## Part II - Test Plots

### 2.1 11B\_L@Ant 1



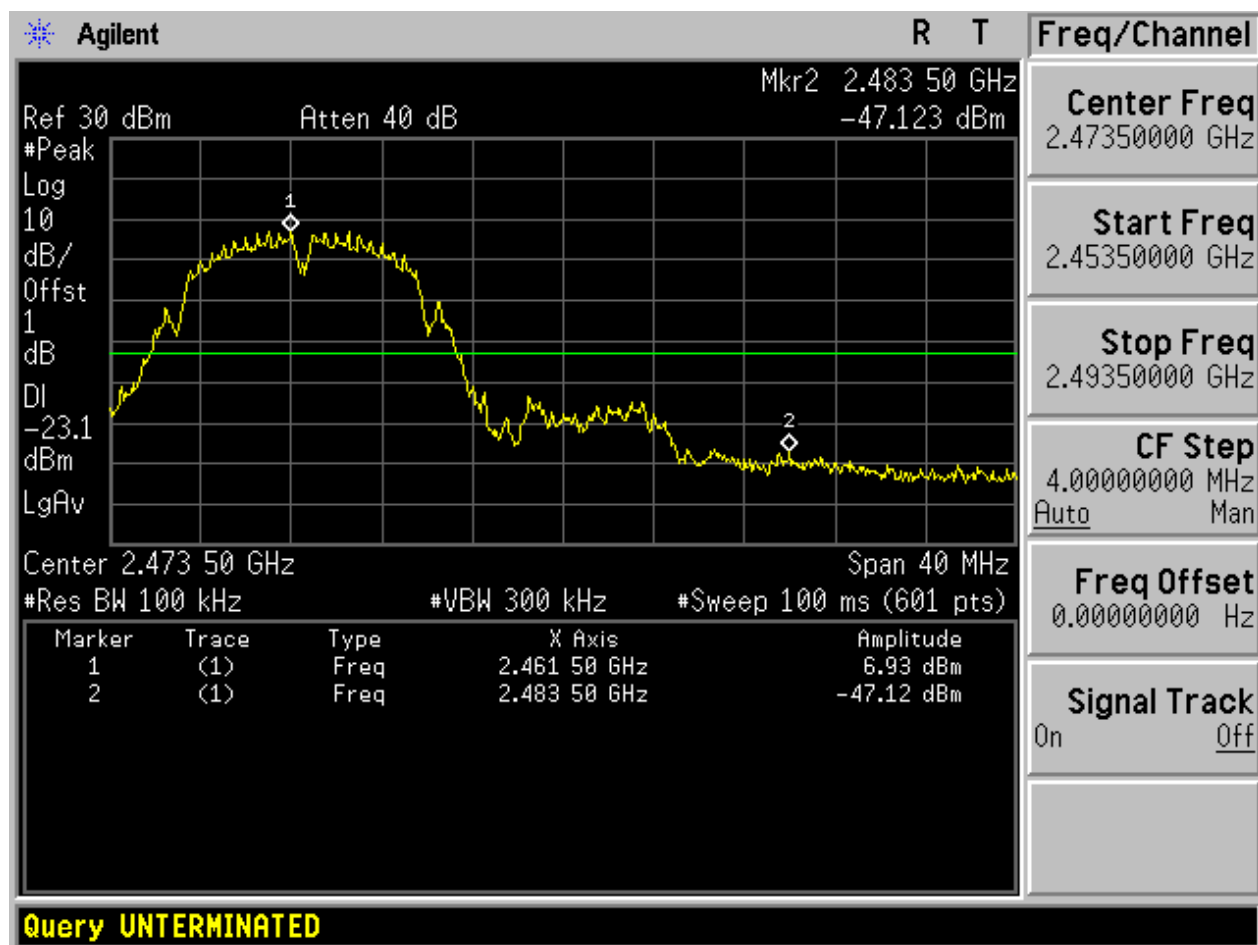


## 2.2 11B\_L@Ant 2



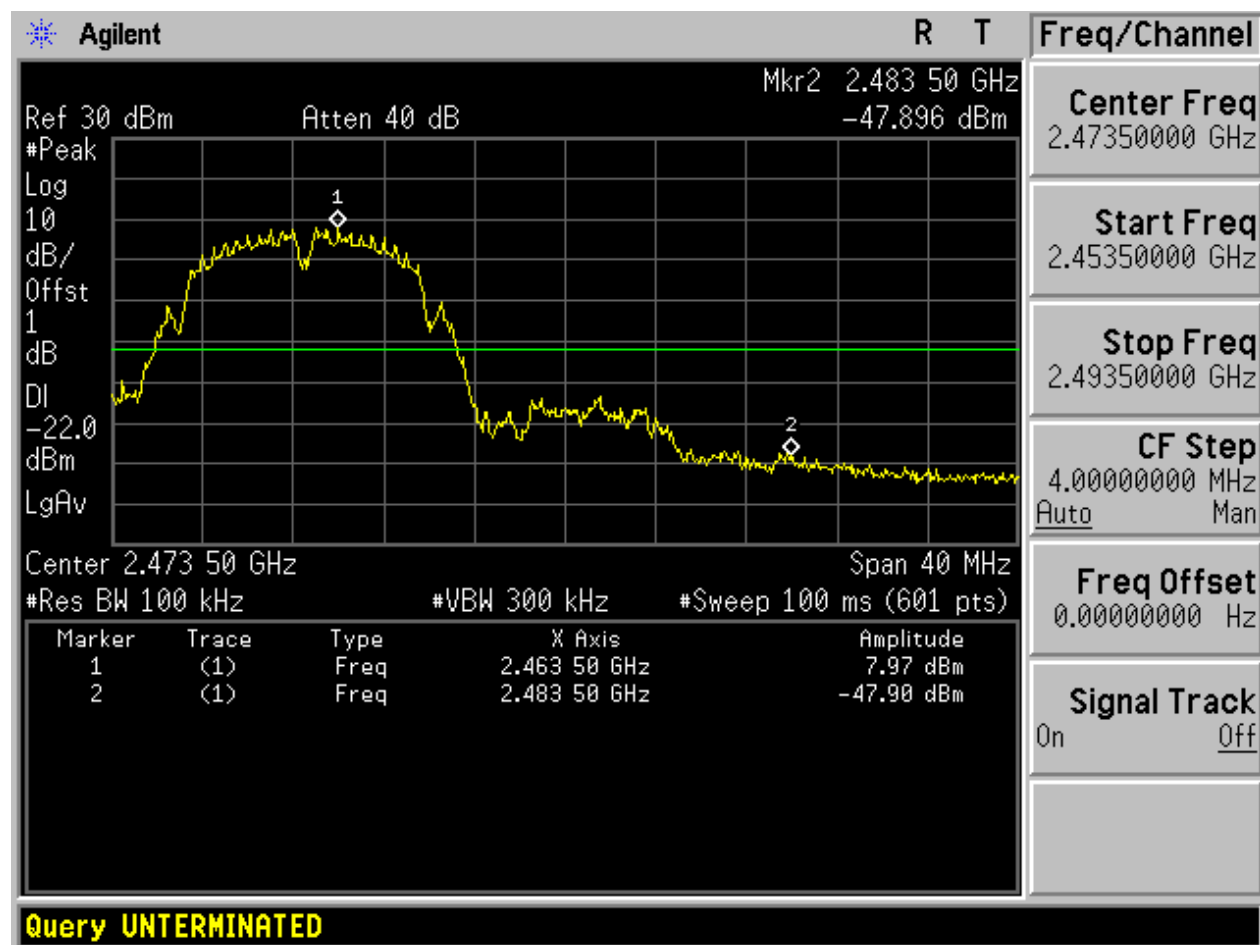


## 2.3 11B\_H@Ant 1



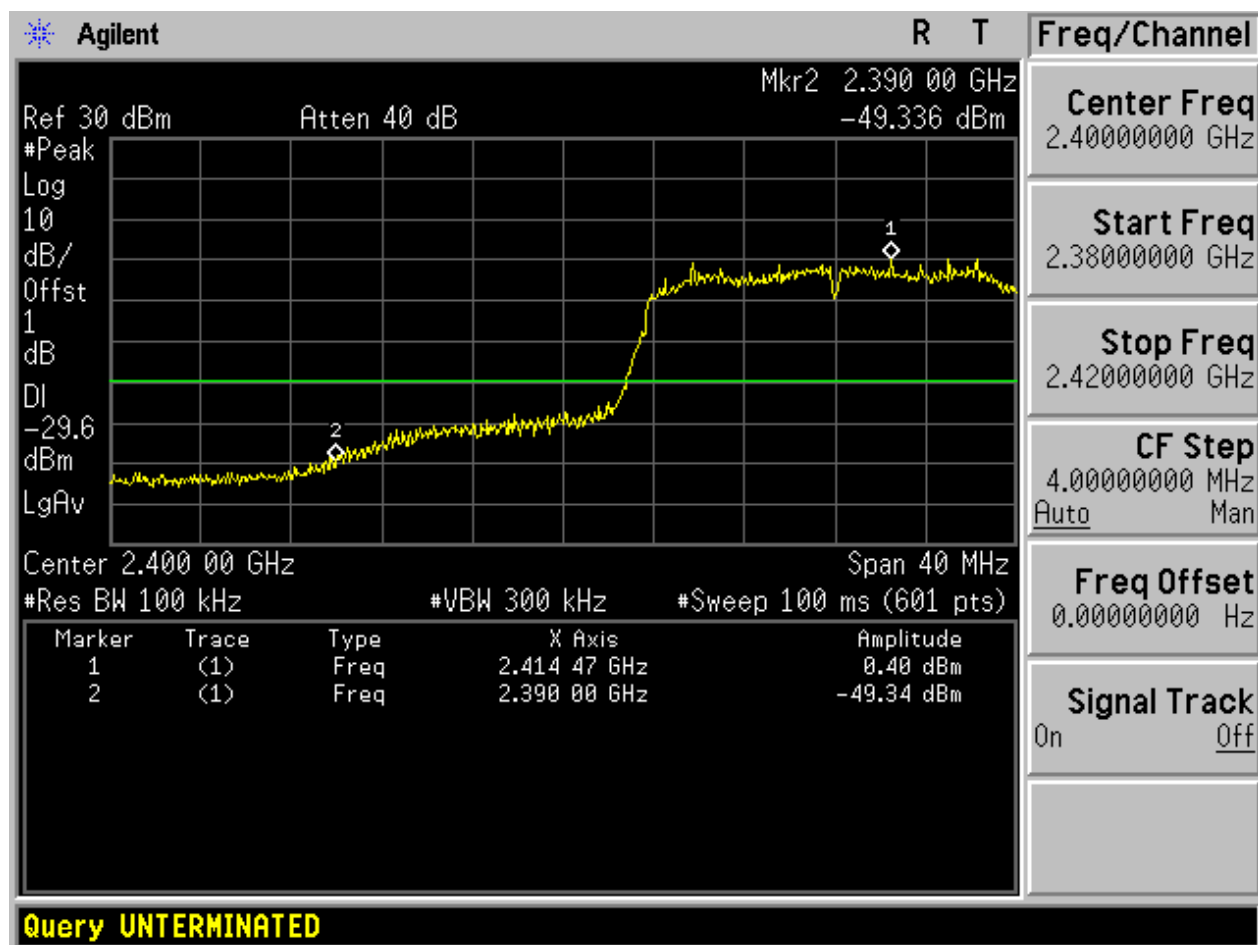


## 2.4 11B\_H@Ant 2



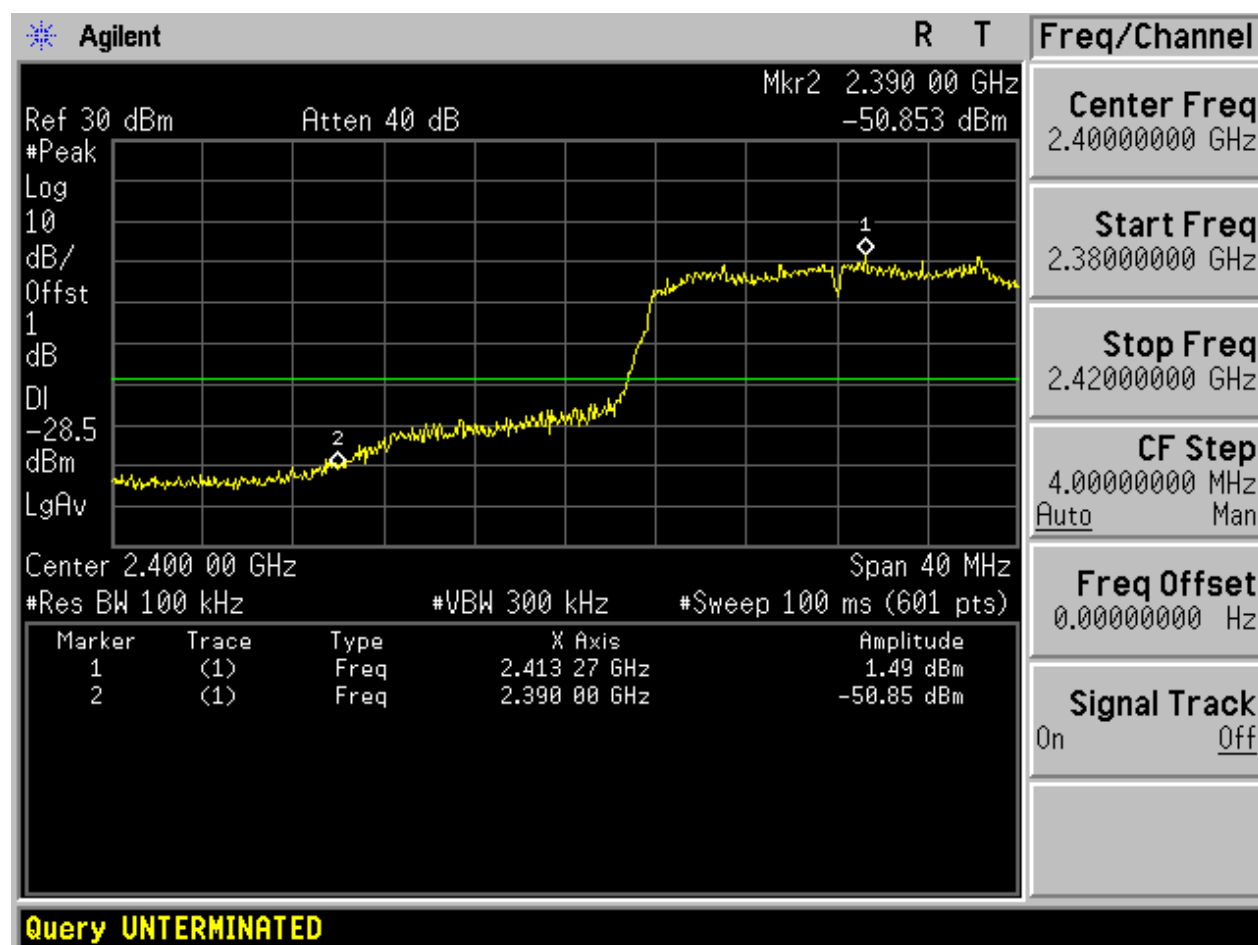


## 2.5 11G\_L@Ant 1



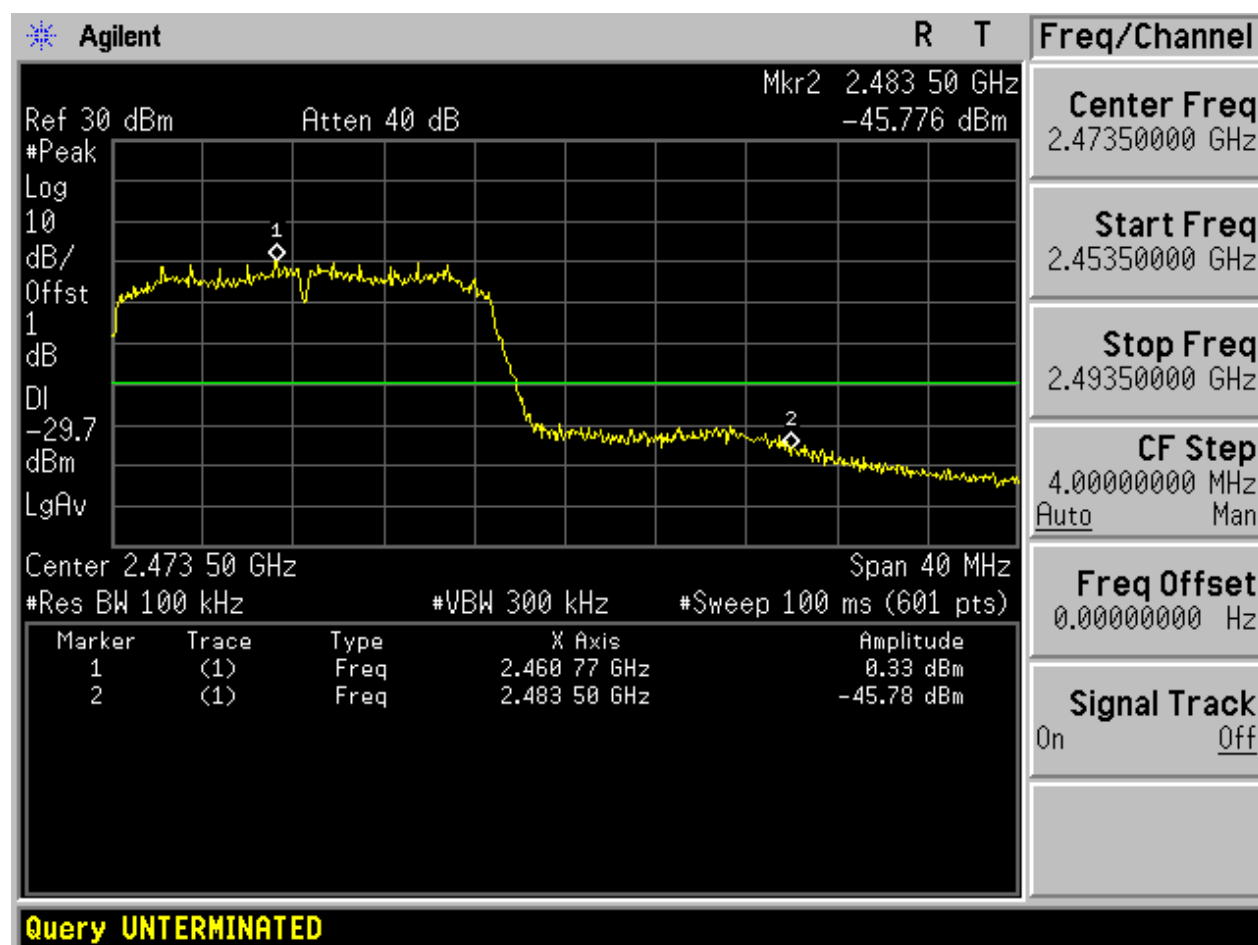


## 2.6 11G\_L@Ant 2

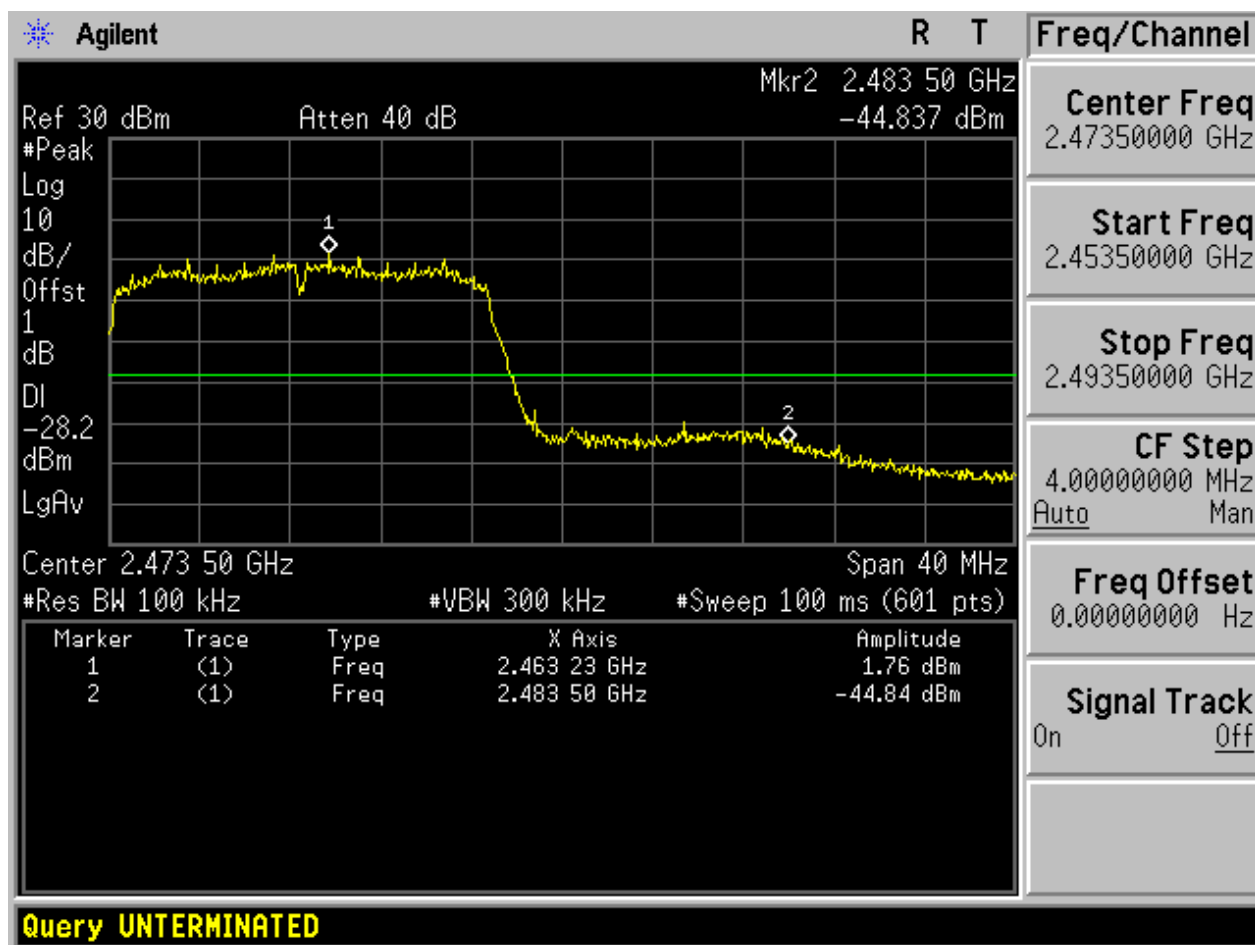




## 2.7 11G\_H@Ant 1

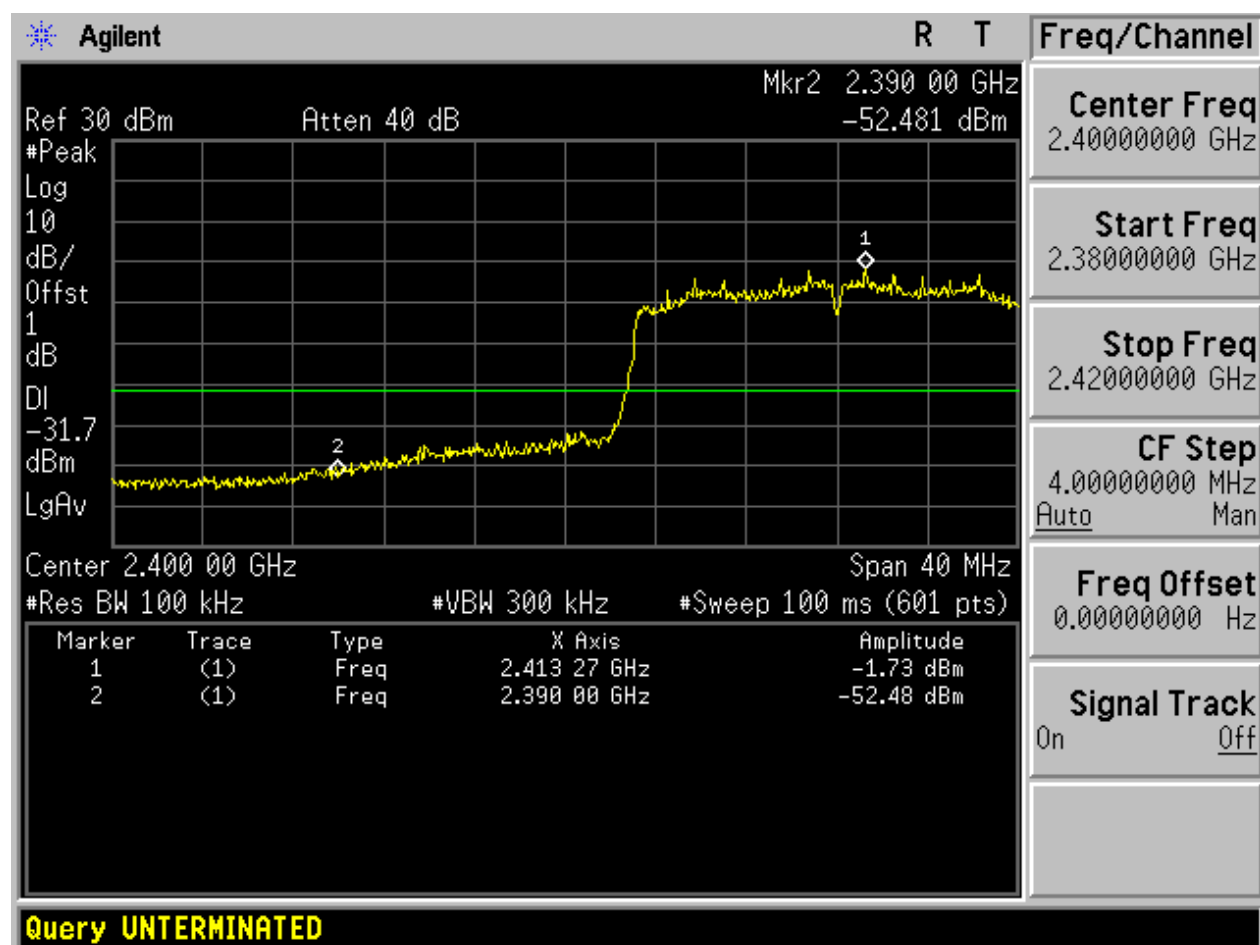


## 2.8 11G\_H@Ant 2



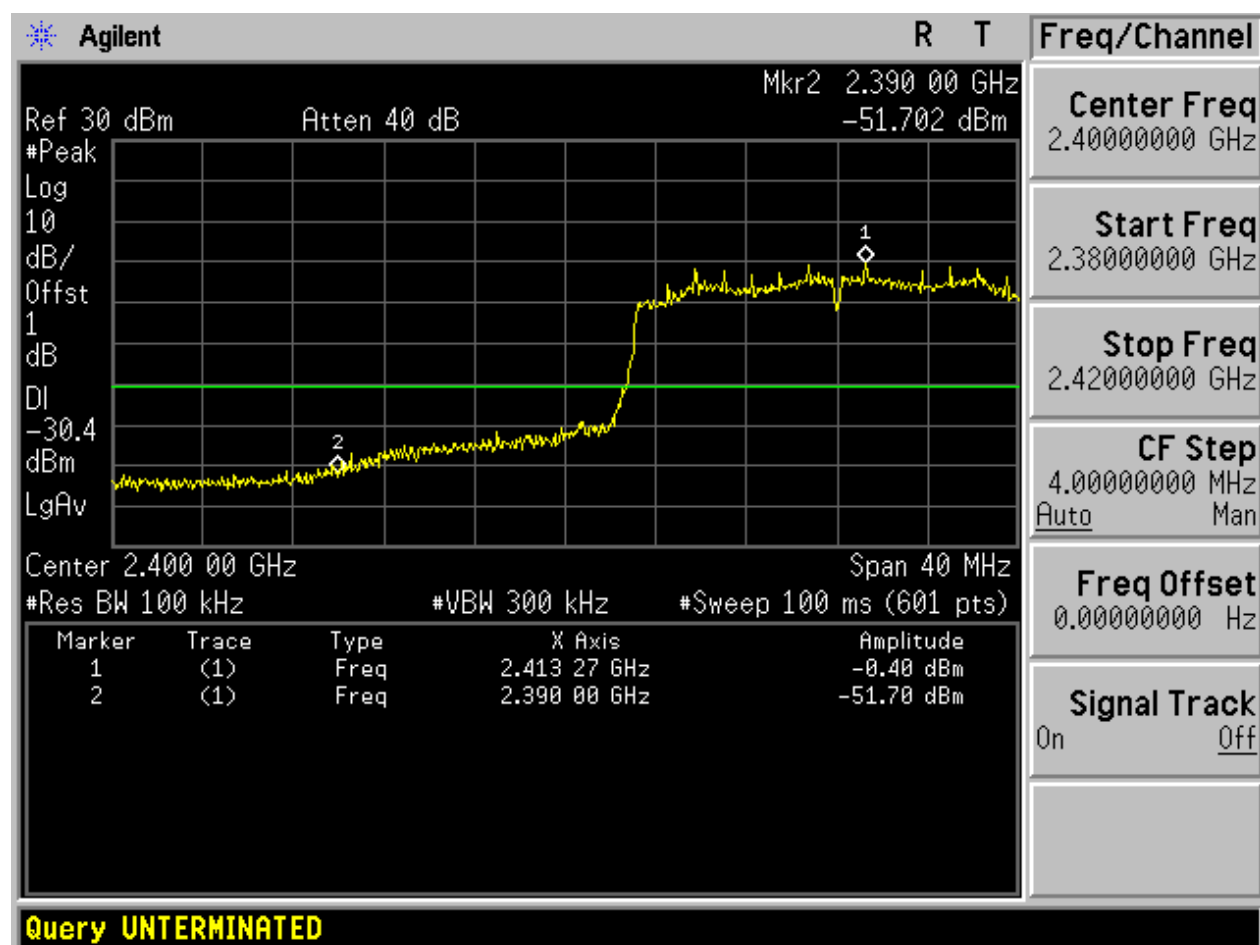


## 2.9 11N20\_L@Ant 1



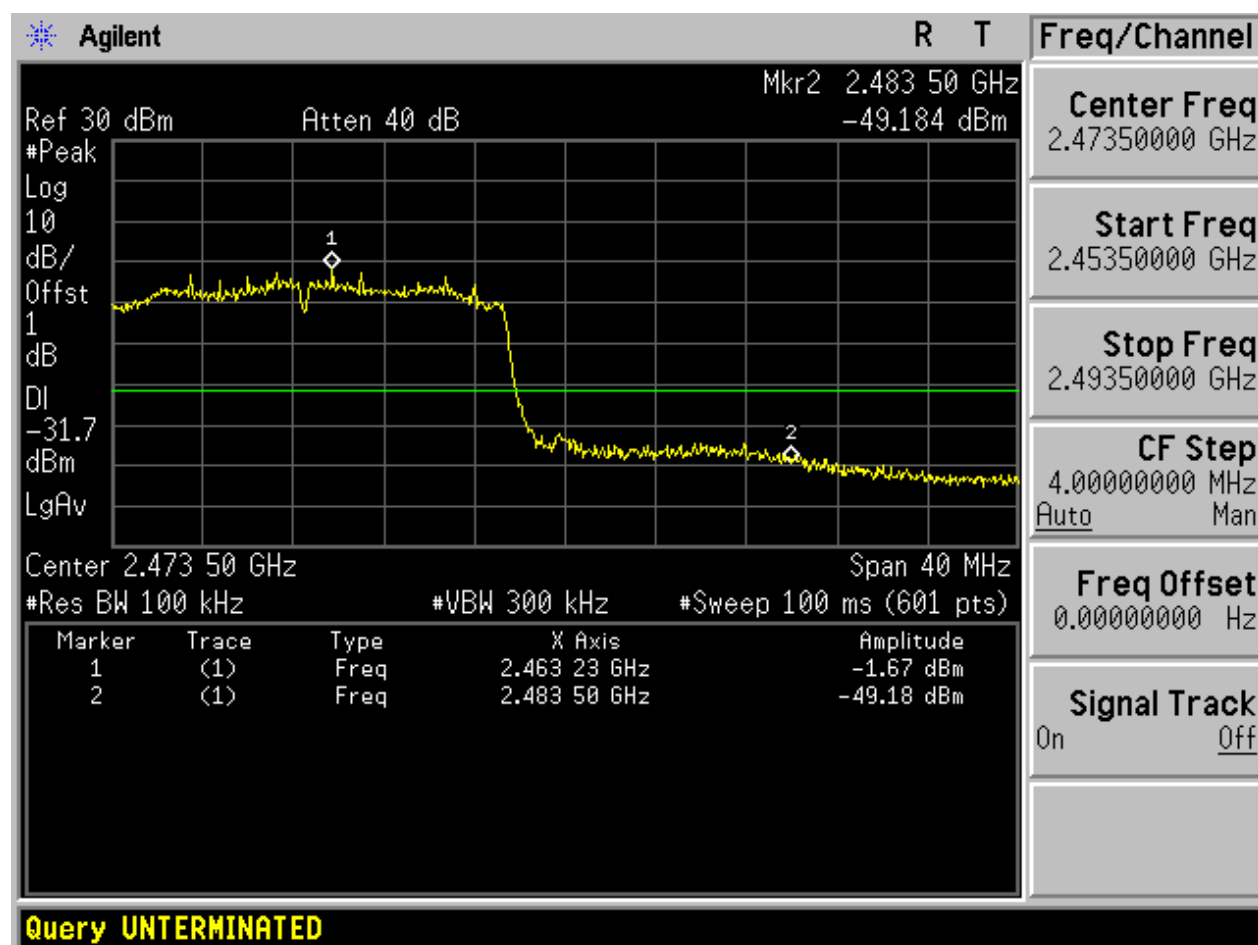


## 2.10 11N20\_L@Ant 2



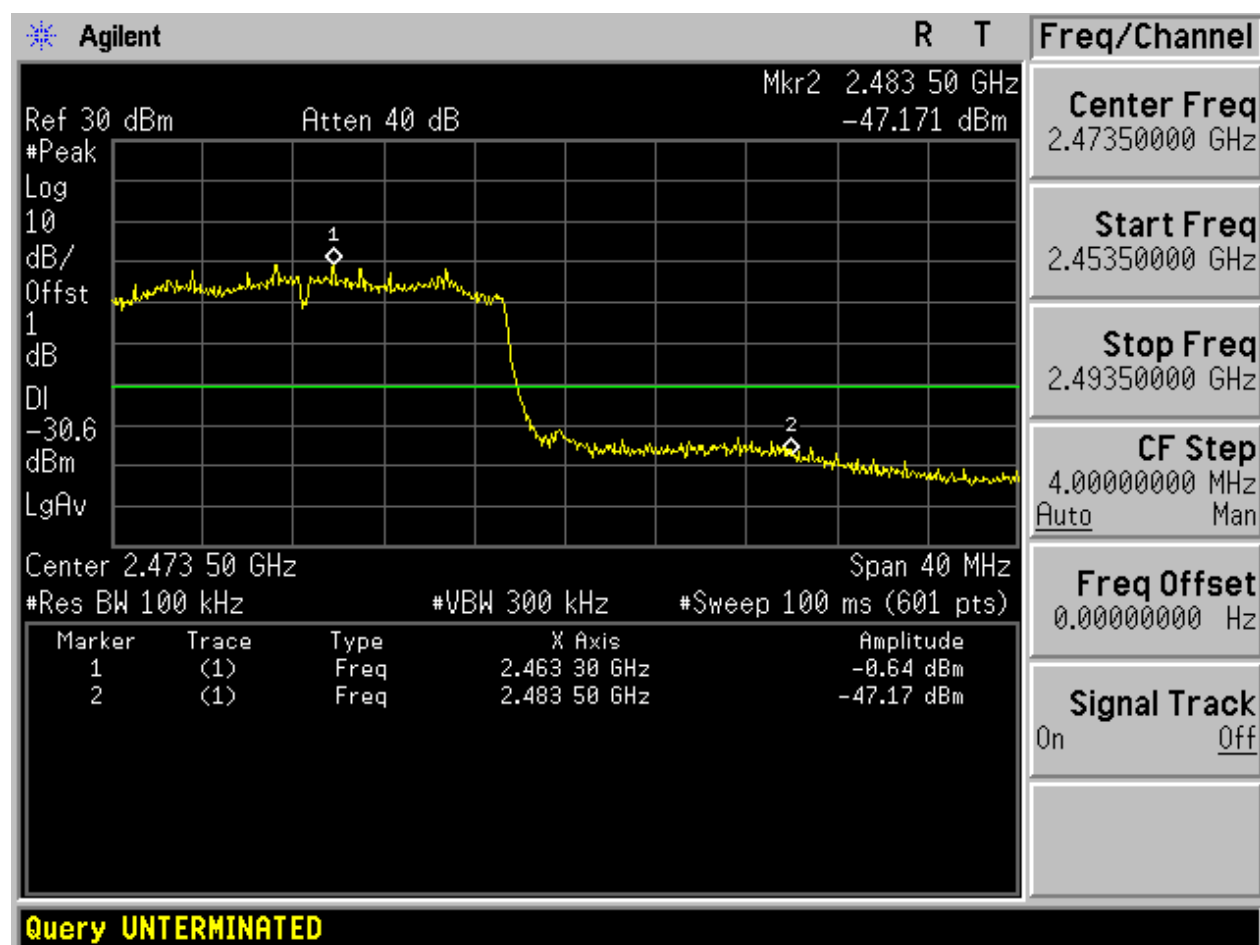


## 2.11 11N20\_H@Ant 1



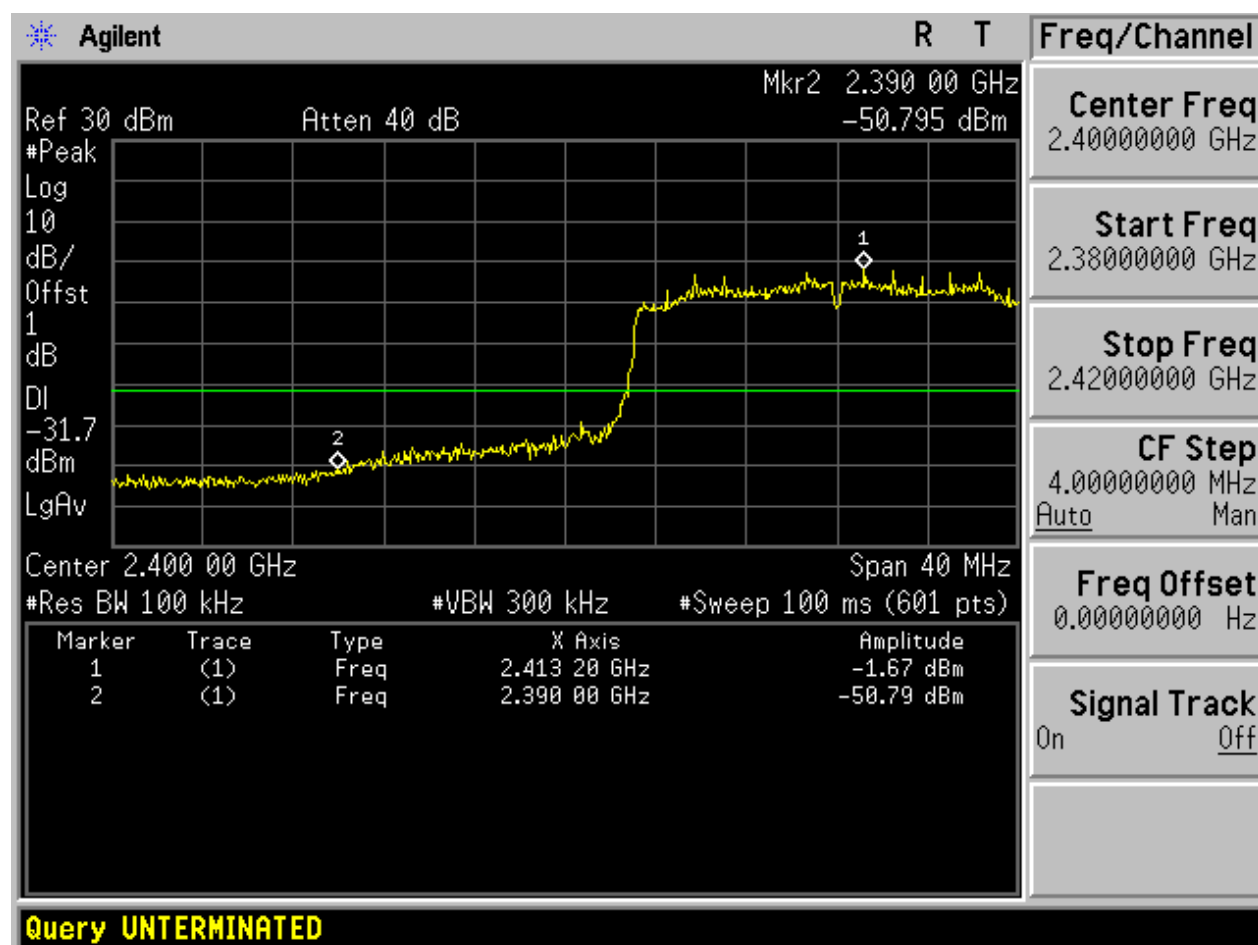


## 2.12 11N20\_H@Ant 2



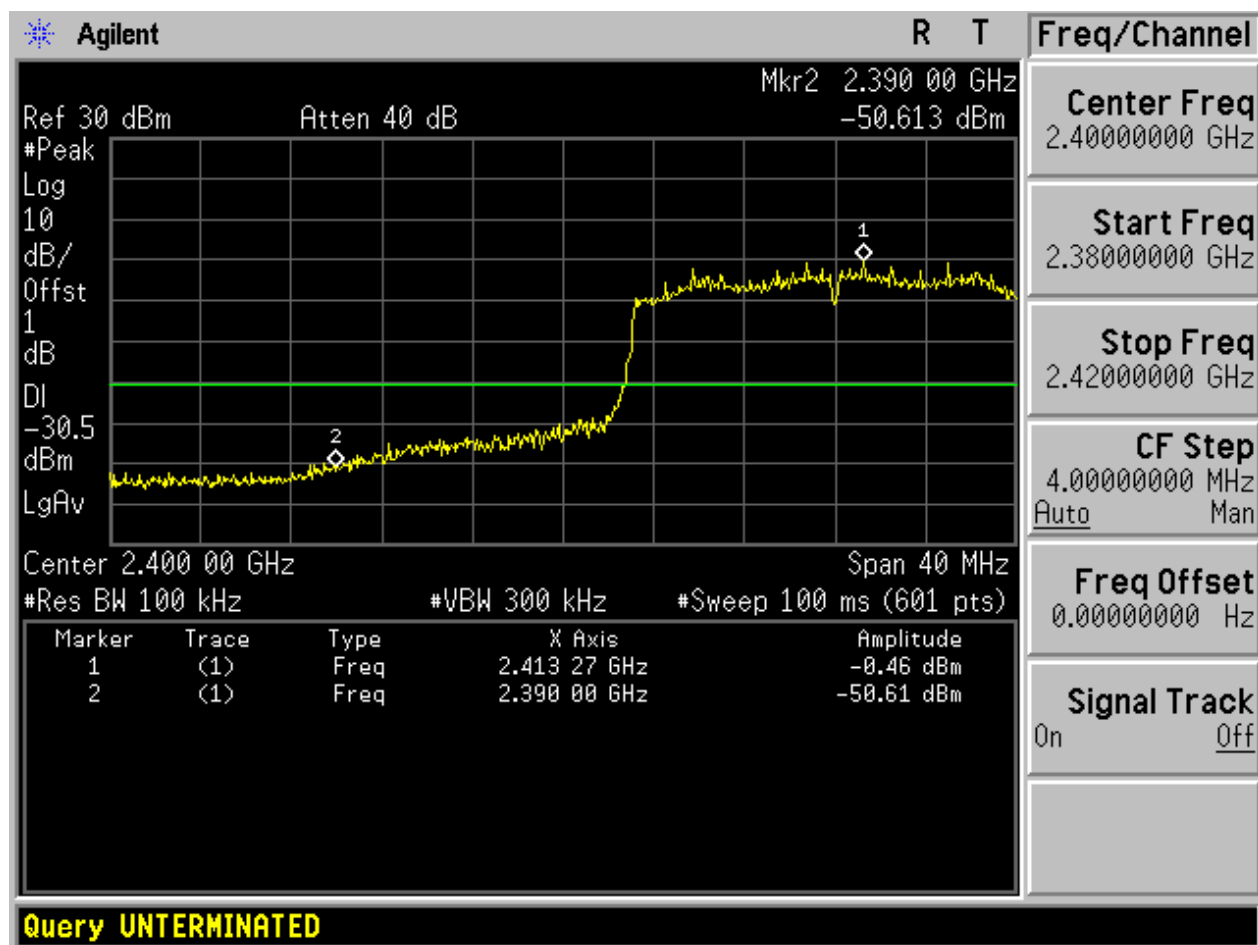


## 2.9 11N20m\_L@Ant 1



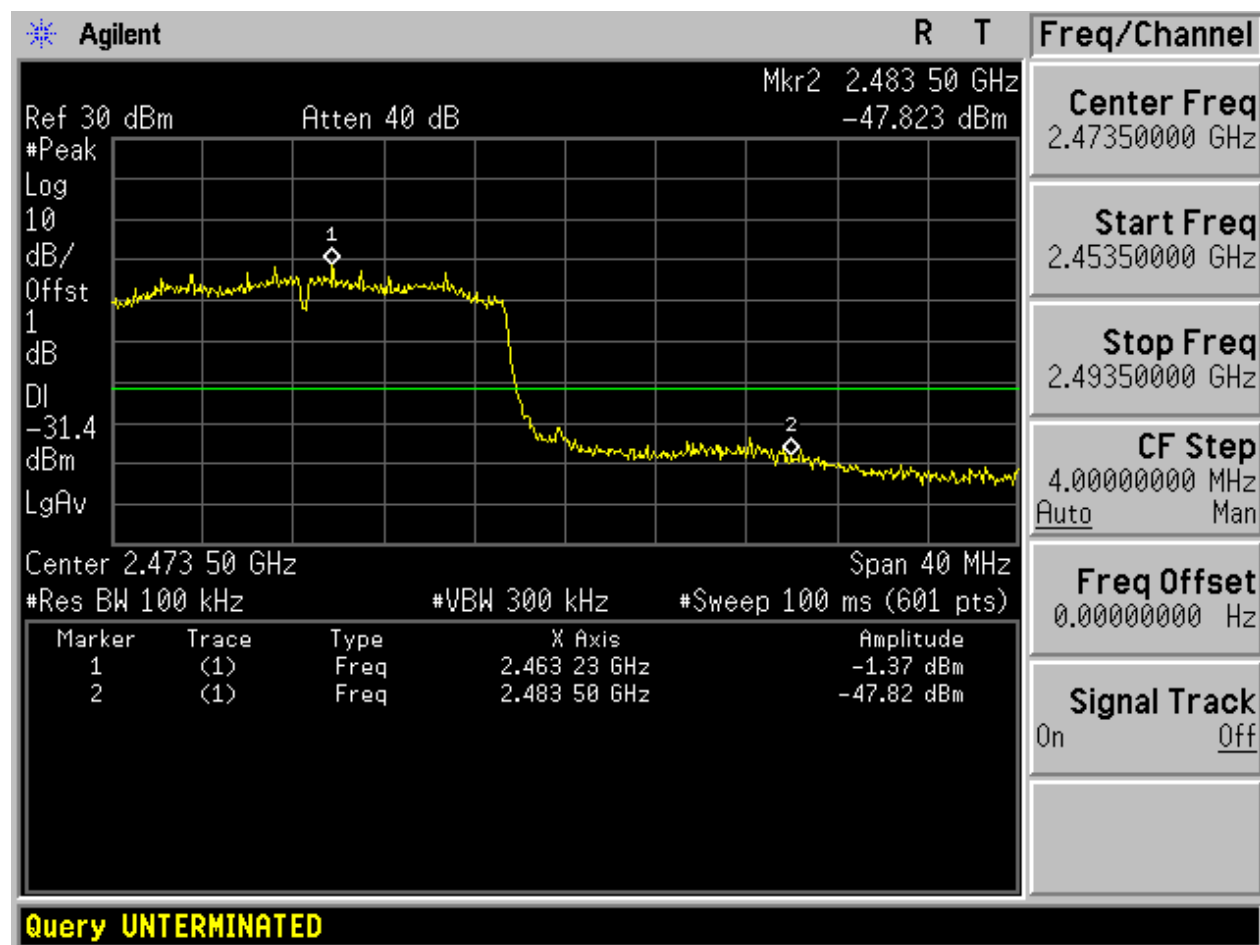


## 2.10 11N20m\_L@Ant 2



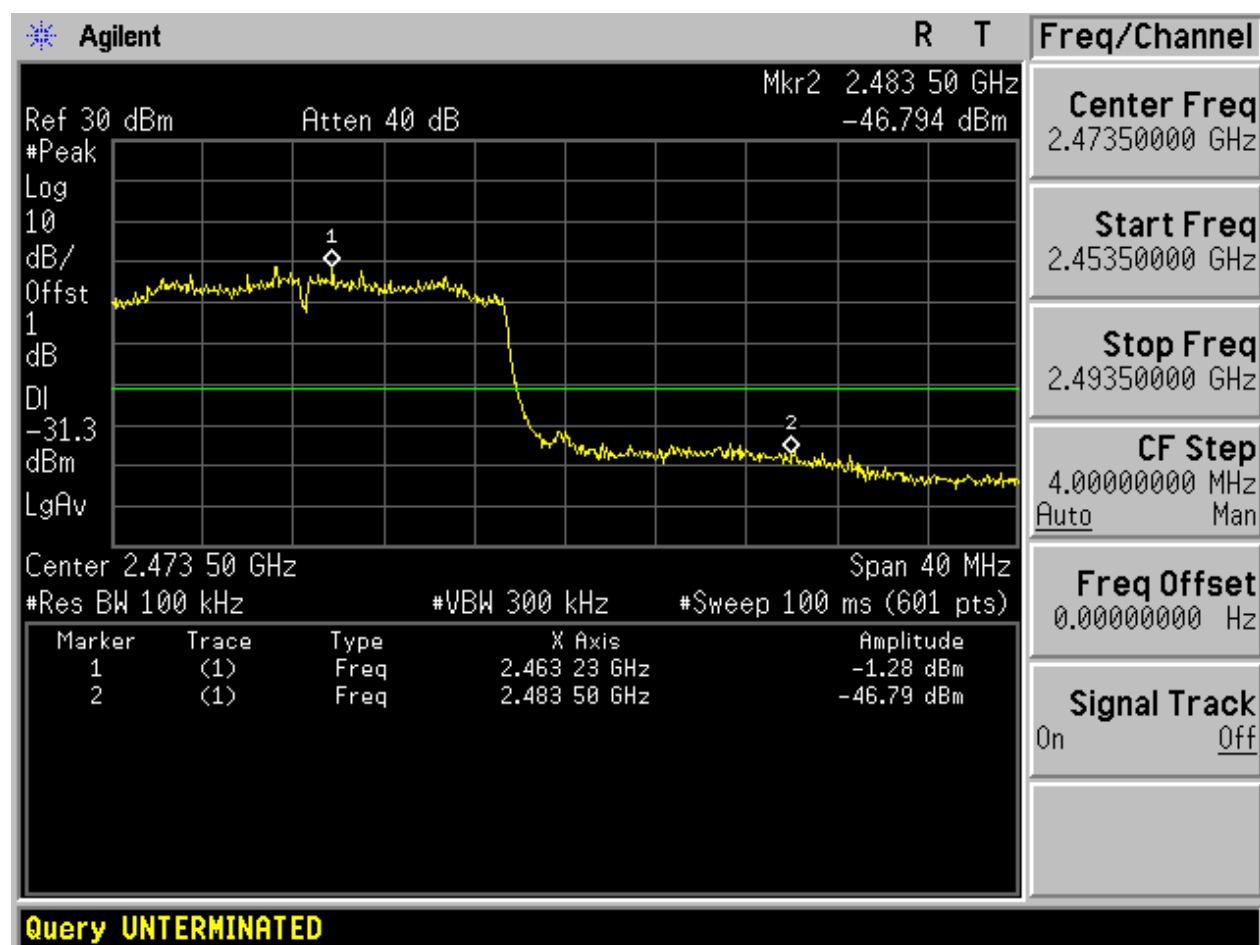


## 2.11 11N20m\_H@Ant 1

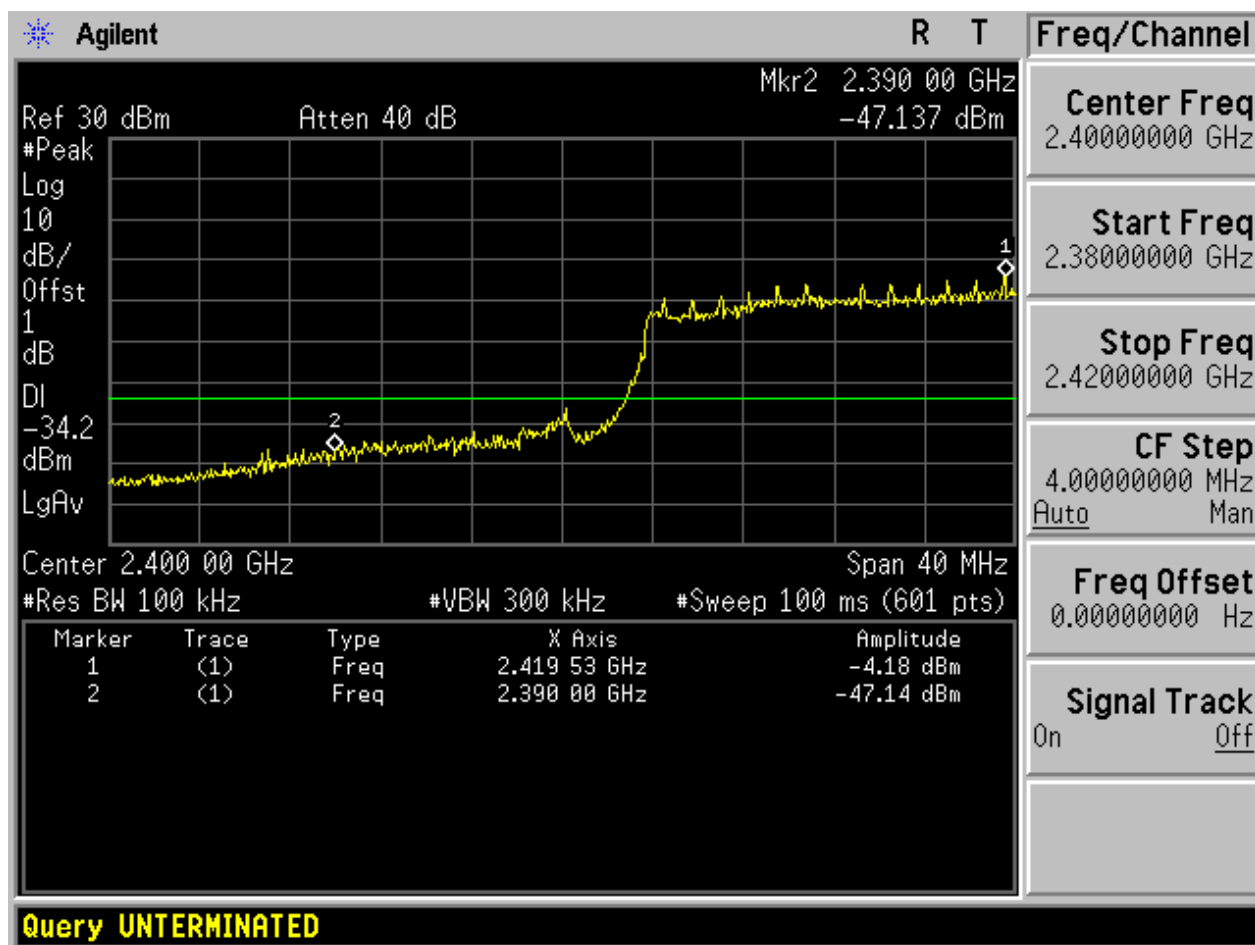




## 2.12 11N20m\_H@Ant 2

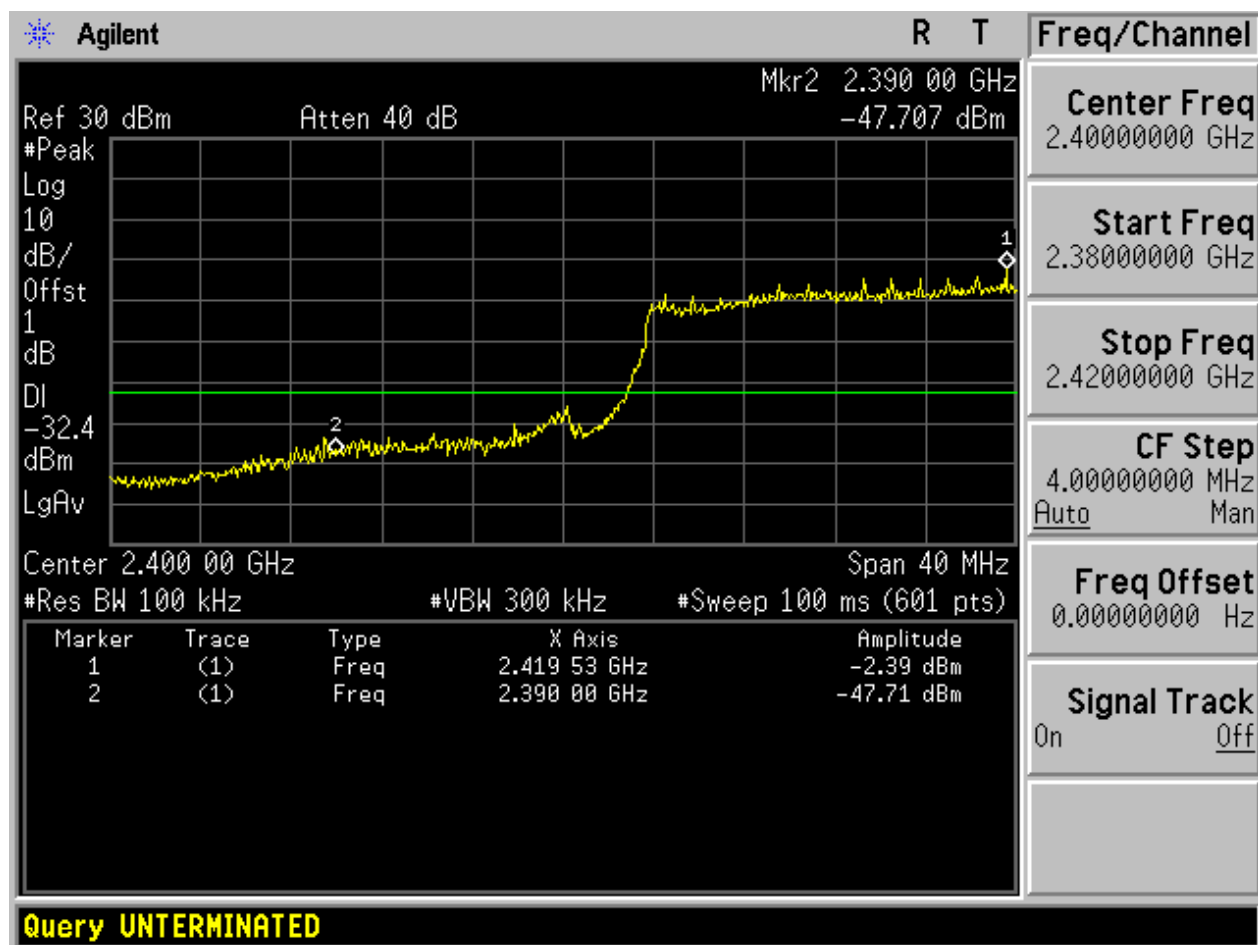


## 2.13 11N40\_L@Ant 1



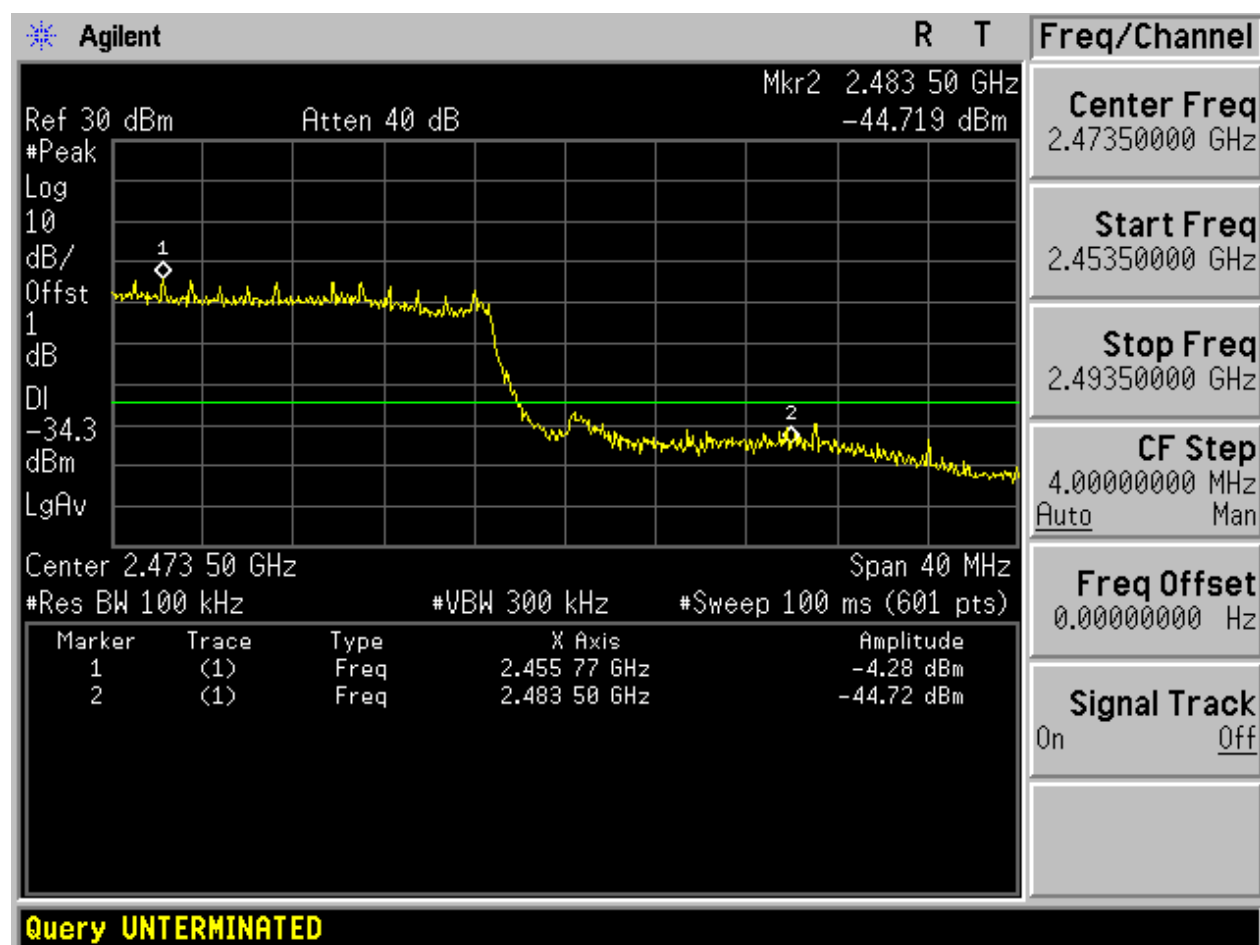


## 2.14 11N40\_L@Ant 2



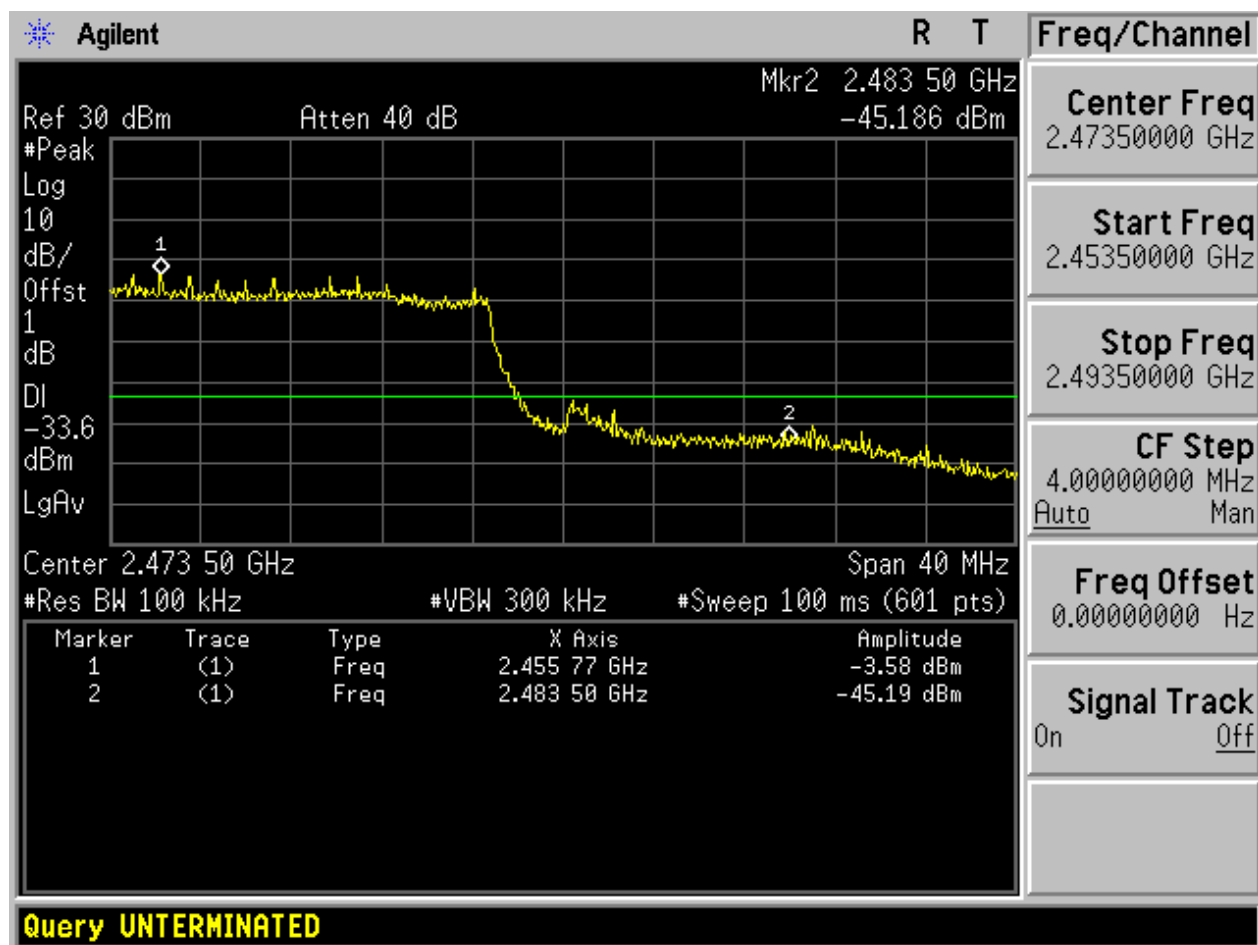


## 2.15 11N40\_H@Ant 1



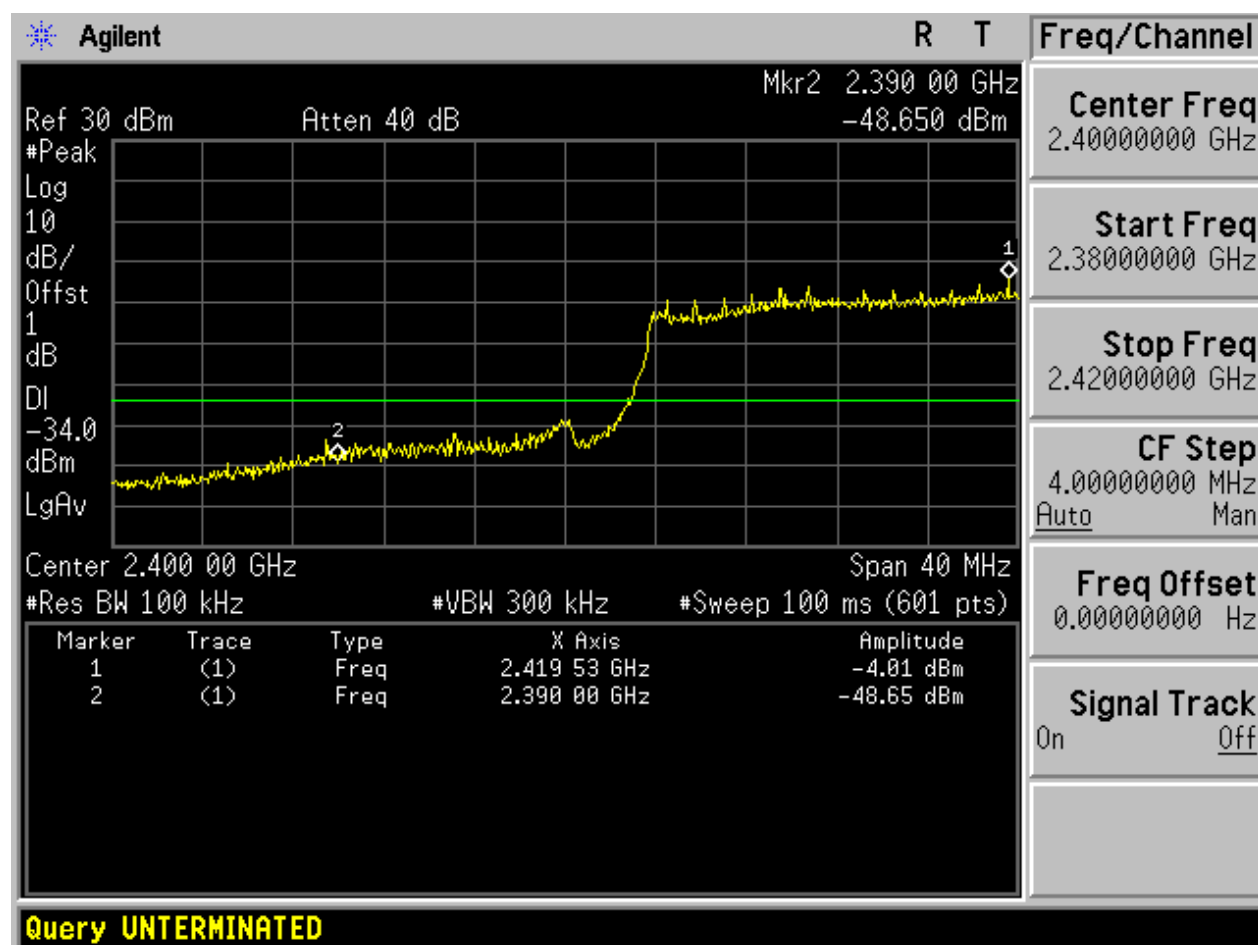


## 2.16 11N40\_H@Ant 2



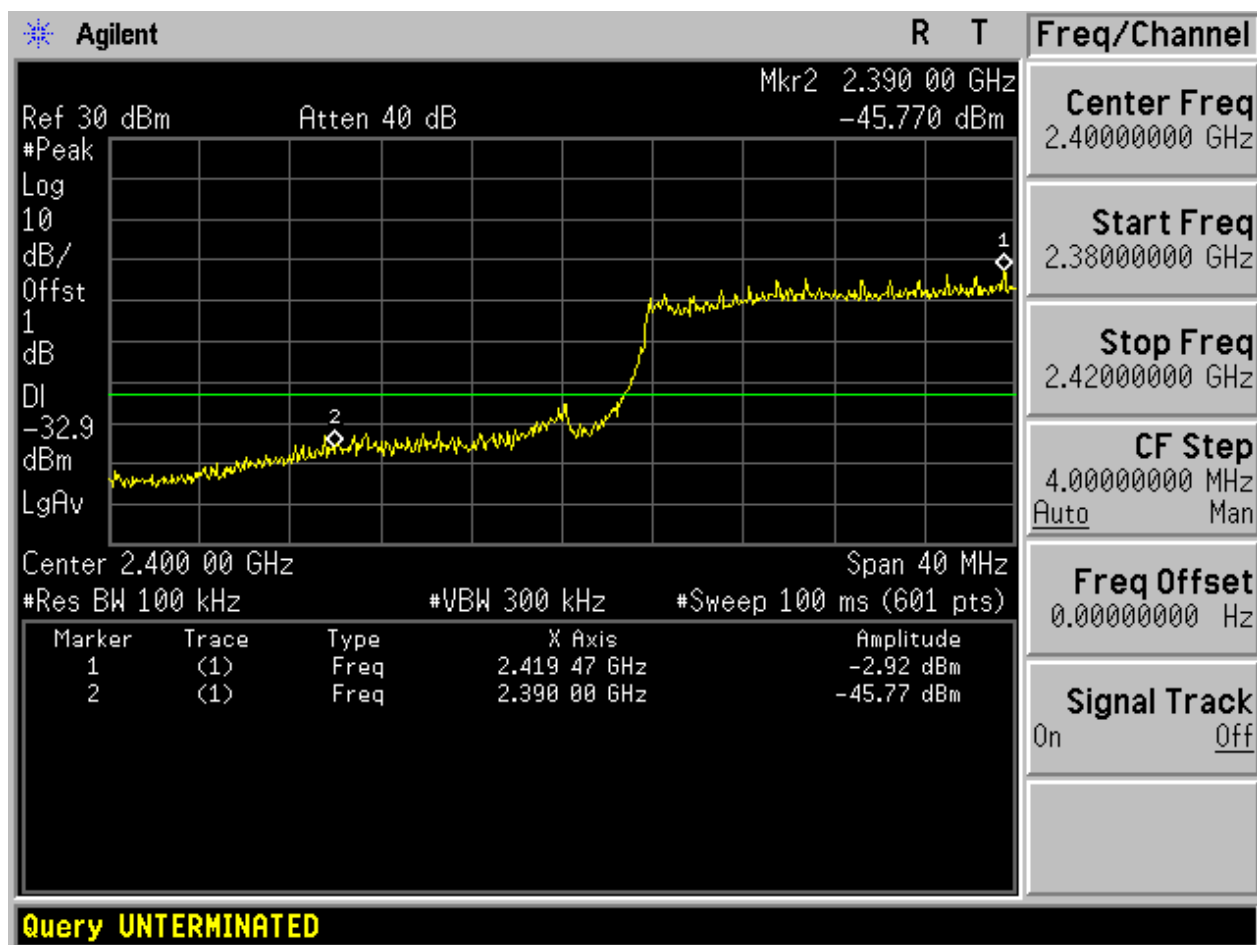


## 2.21 11N40m\_L@Ant 1

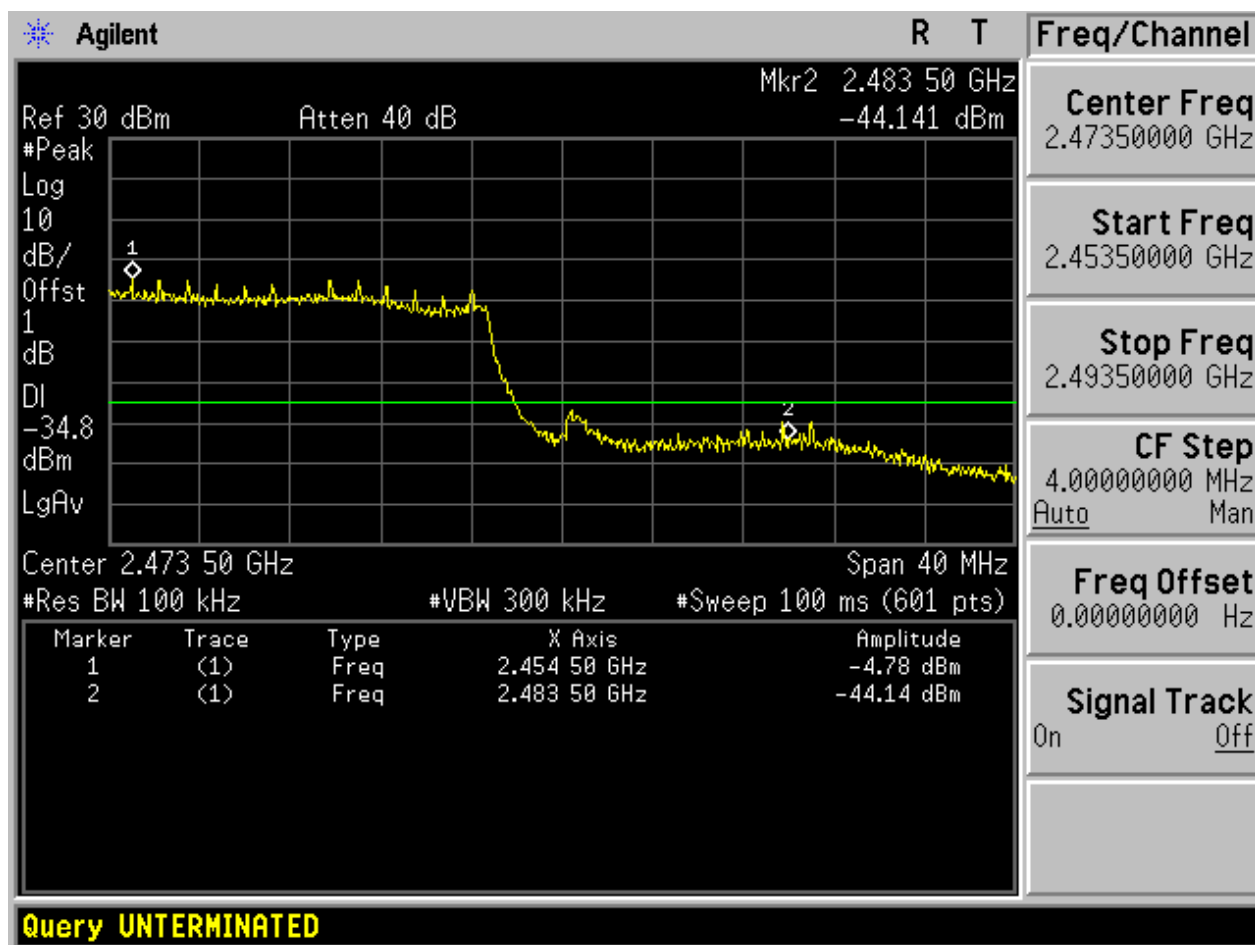




## 2.22 11N40m\_L@Ant 2

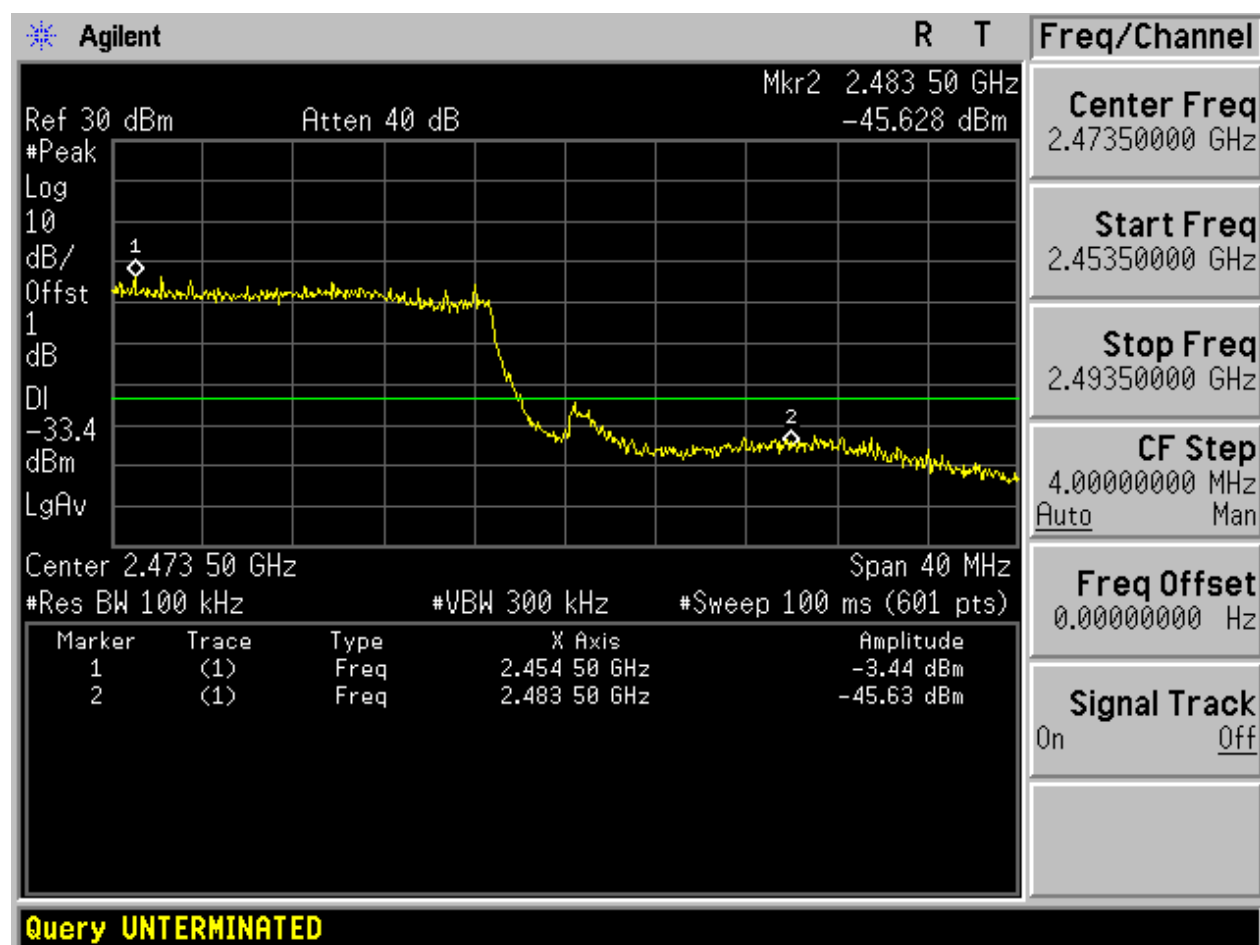


## 2.23 11N40m\_H@Ant 1





## 2.24 11N40m\_H@Ant 2



## Appendix F: Unwanted Emissions into Non-Restricted Frequency

### Bands

In this Appendix, the "Pref", which is used as the reference level, refers to the peak power level in any 100 kHz bandwidth within the fundamental emission, the "Puw" refers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

Considering that the higher ratio of RBW to the span for the frequency ranges below 30 MHz makes the results determination be complicated, a narrower RBW other than 100 kHz is used for these ranges. The measured value should add a RBW correction factor (RBWCF) where  $RBWCF [dB] = 10 \times \lg(100 [kHz]/\text{narrower RBW} [kHz])$ . As to this Appendix, the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain and used as respective results for each chain, due to the relative-limit requirement.

In the result table, the "< Limit" denotes that "The Puw [dBm] is less than Pref[dBm]-30[dBm], see test plots for detailed".

### Part I - Test Results

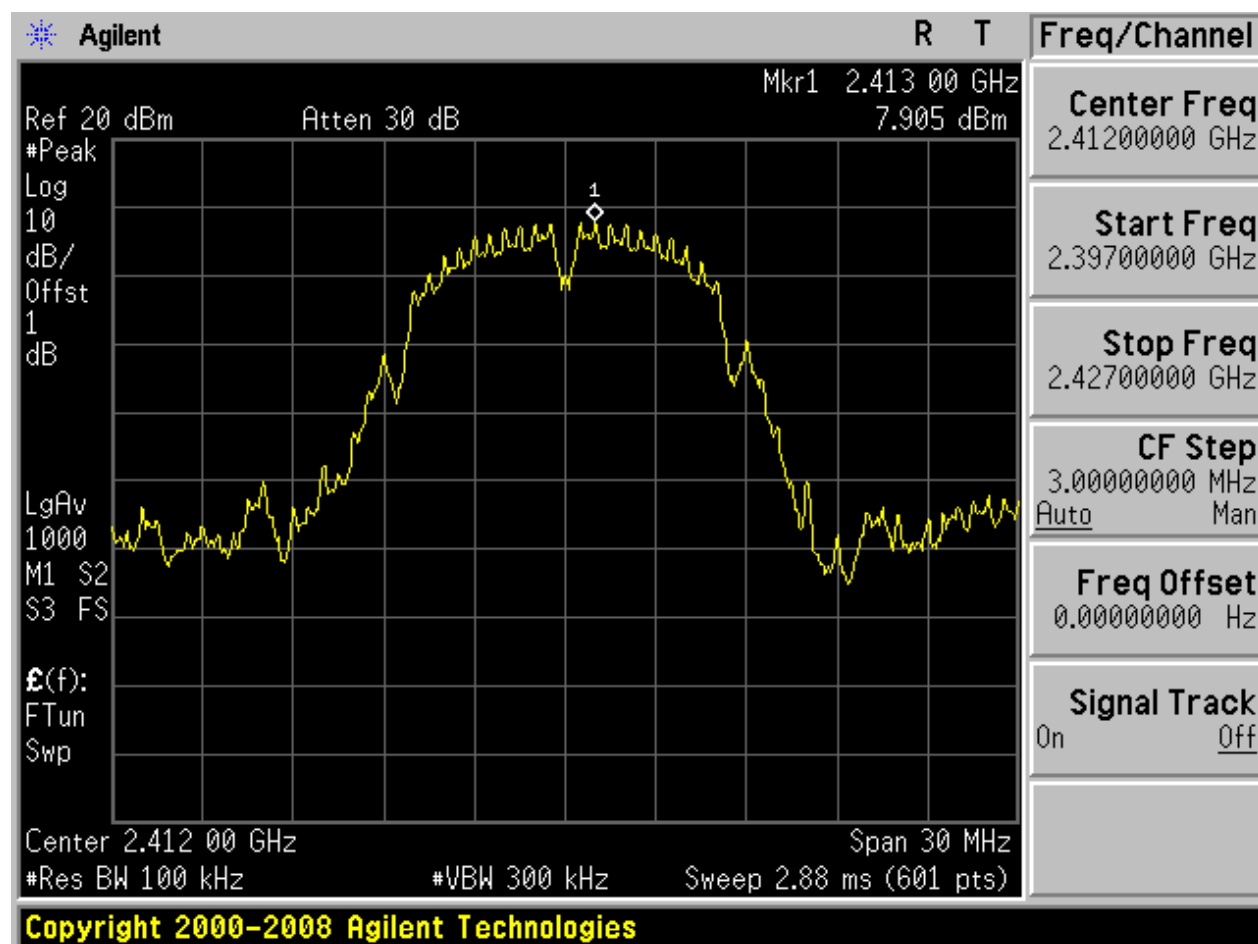
| Test Mode | Test Channel | Frequency[MHz] | Ant   | Pref[dBm] | Puw[dBm] | Verdict |
|-----------|--------------|----------------|-------|-----------|----------|---------|
| 11B       | L            | 2412           | Ant 1 | 7.9       | <limit   | pass    |
| 11B       | L            | 2412           | Ant 2 | 9.03      | <limit   | pass    |
| 11B       | M            | 2437           | Ant 1 | 8.75      | <limit   | pass    |
| 11B       | M            | 2437           | Ant 2 | 9.56      | <limit   | pass    |
| 11B       | H            | 2462           | Ant 1 | 7.72      | <limit   | pass    |
| 11B       | H            | 2462           | Ant 2 | 8.5       | <limit   | pass    |
| 11G       | L            | 2412           | Ant 1 | 0.99      | <limit   | pass    |
| 11G       | L            | 2412           | Ant 2 | 2.94      | <limit   | pass    |
| 11G       | M            | 2437           | Ant 1 | 2.34      | <limit   | pass    |
| 11G       | M            | 2437           | Ant 2 | 3.26      | <limit   | pass    |
| 11G       | H            | 2462           | Ant 1 | 1.85      | <limit   | pass    |
| 11G       | H            | 2462           | Ant 2 | 2.62      | <limit   | pass    |
| 11N20     | L            | 2412           | Ant 1 | -0.92     | <limit   | pass    |
| 11N20     | L            | 2412           | Ant 2 | 0.55      | <limit   | pass    |
| 11N20     | M            | 2437           | Ant 1 | -0.86     | <limit   | pass    |
| 11N20     | M            | 2437           | Ant 2 | 0.53      | <limit   | pass    |
| 11N20     | H            | 2462           | Ant 1 | -1.34     | <limit   | pass    |

| Test Mode | Test Channel | Frequency[MHz] | Ant   | Pref[dBm] | Puw[dBm] | Verdict |
|-----------|--------------|----------------|-------|-----------|----------|---------|
| 11N20     | H            | 2462           | Ant 2 | -1.1      | <limit   | pass    |
| 11N20m    | L            | 2412           | Ant 1 | -0.7      | <limit   | pass    |
| 11N20m    | L            | 2412           | Ant 2 | 0.31      | <limit   | pass    |
| 11N20m    | M            | 2437           | Ant 1 | -0.34     | <limit   | pass    |
| 11N20m    | M            | 2437           | Ant 2 | 0.11      | <limit   | pass    |
| 11N20m    | H            | 2462           | Ant 1 | -1.03     | <limit   | pass    |
| 11N20m    | H            | 2462           | Ant 2 | -0.47     | <limit   | pass    |
| 11N40     | L            | 2422           | Ant 1 | -3.58     | <limit   | pass    |
| 11N40     | L            | 2422           | Ant 2 | -2.24     | <limit   | pass    |
| 11N40     | M            | 2437           | Ant 1 | -4.14     | <limit   | pass    |
| 11N40     | M            | 2437           | Ant 2 | -3.28     | <limit   | pass    |
| 11N40     | H            | 2452           | Ant 1 | -4.01     | <limit   | pass    |
| 11N40     | H            | 2452           | Ant 2 | -3.03     | <limit   | pass    |
| 11N40m    | L            | 2422           | Ant 1 | -3.37     | <limit   | pass    |
| 11N40m    | L            | 2422           | Ant 2 | -1.93     | <limit   | pass    |
| 11N40m    | M            | 2437           | Ant 1 | -4.28     | <limit   | pass    |
| 11N40m    | M            | 2437           | Ant 2 | -3.05     | <limit   | pass    |
| 11N40m    | H            | 2452           | Ant 1 | -3.71     | <limit   | pass    |
| 11N40m    | H            | 2452           | Ant 2 | -2.62     | <limit   | pass    |

## Part II - Test Plots

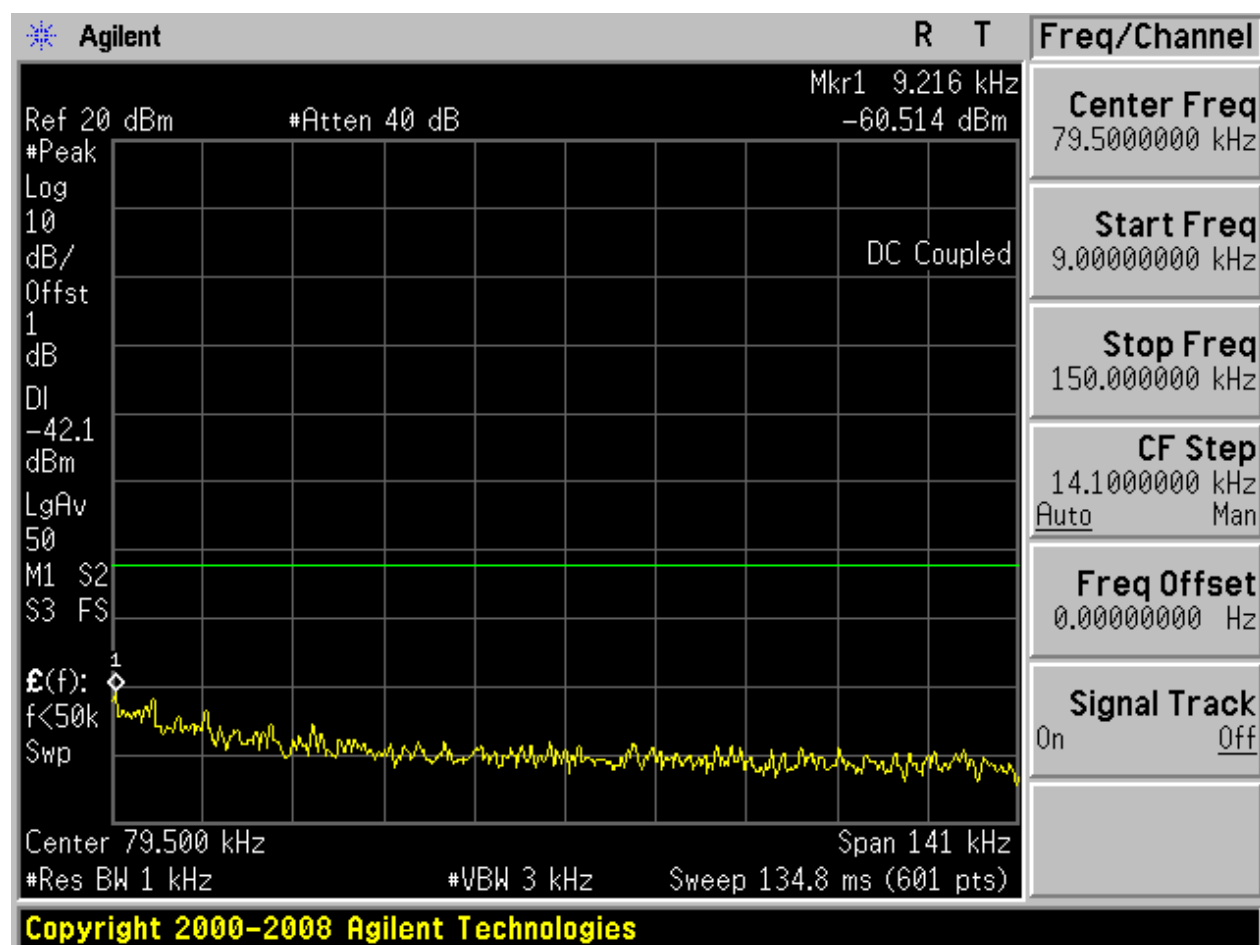
### 2.1 11B\_L@Ant 1

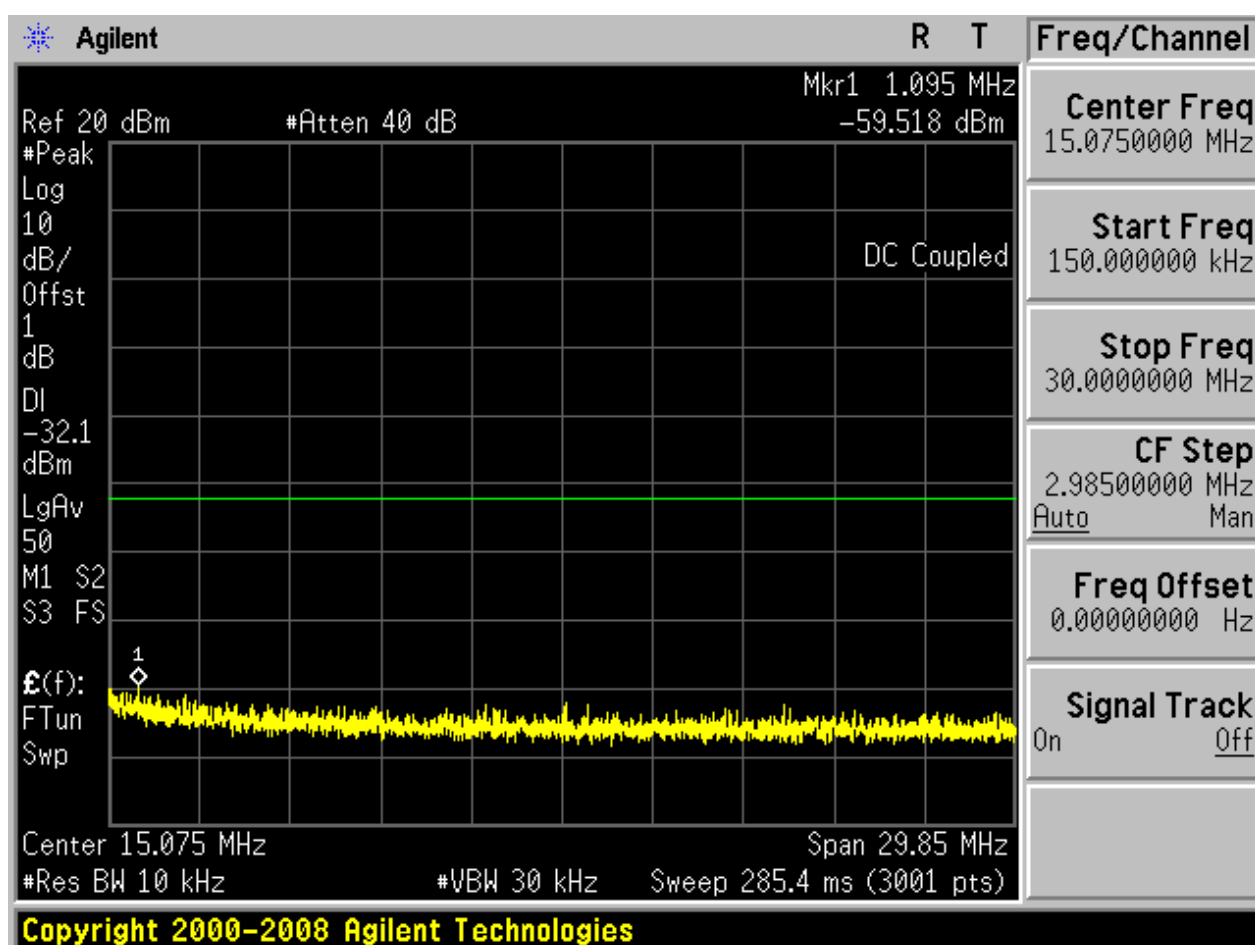
Pref:

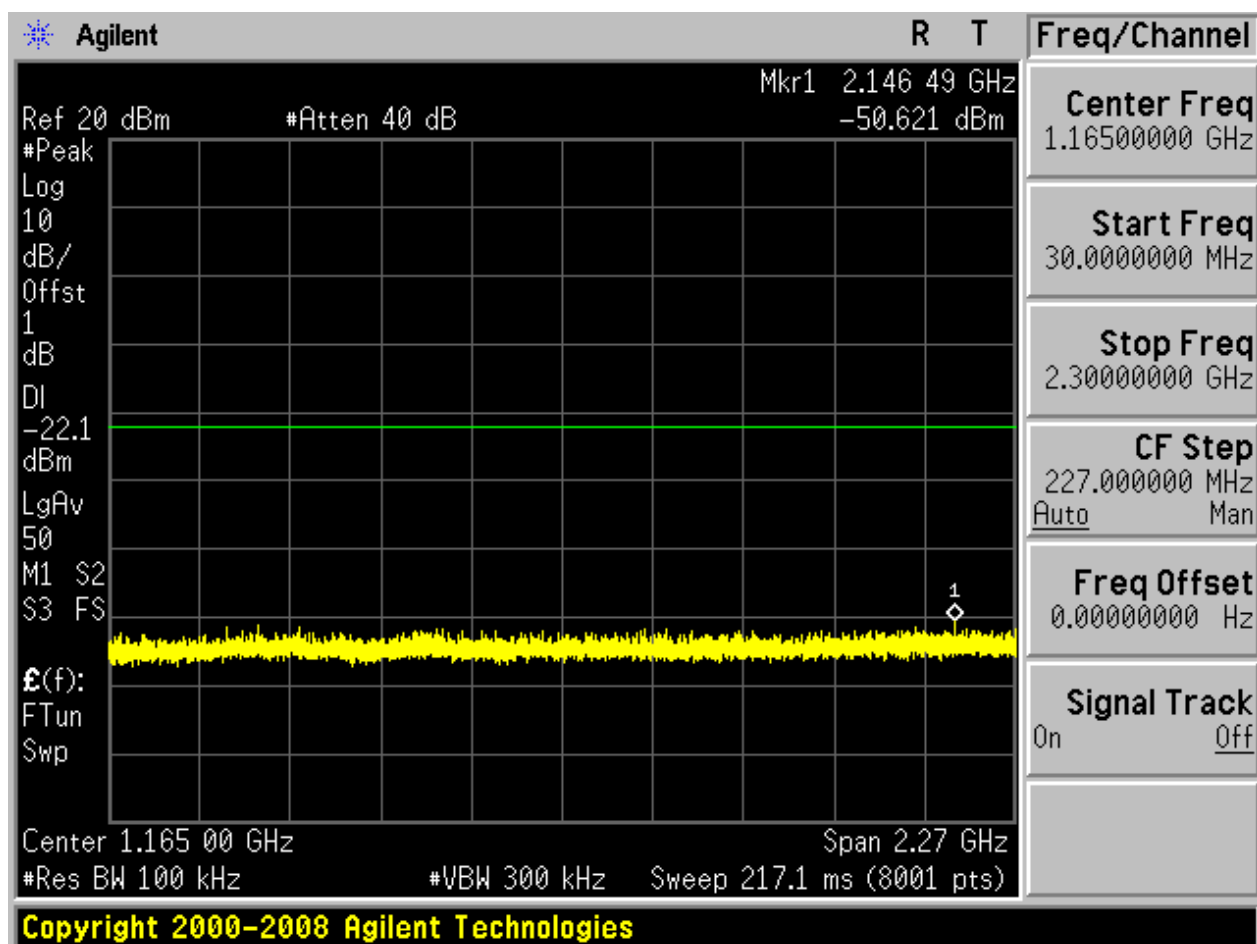


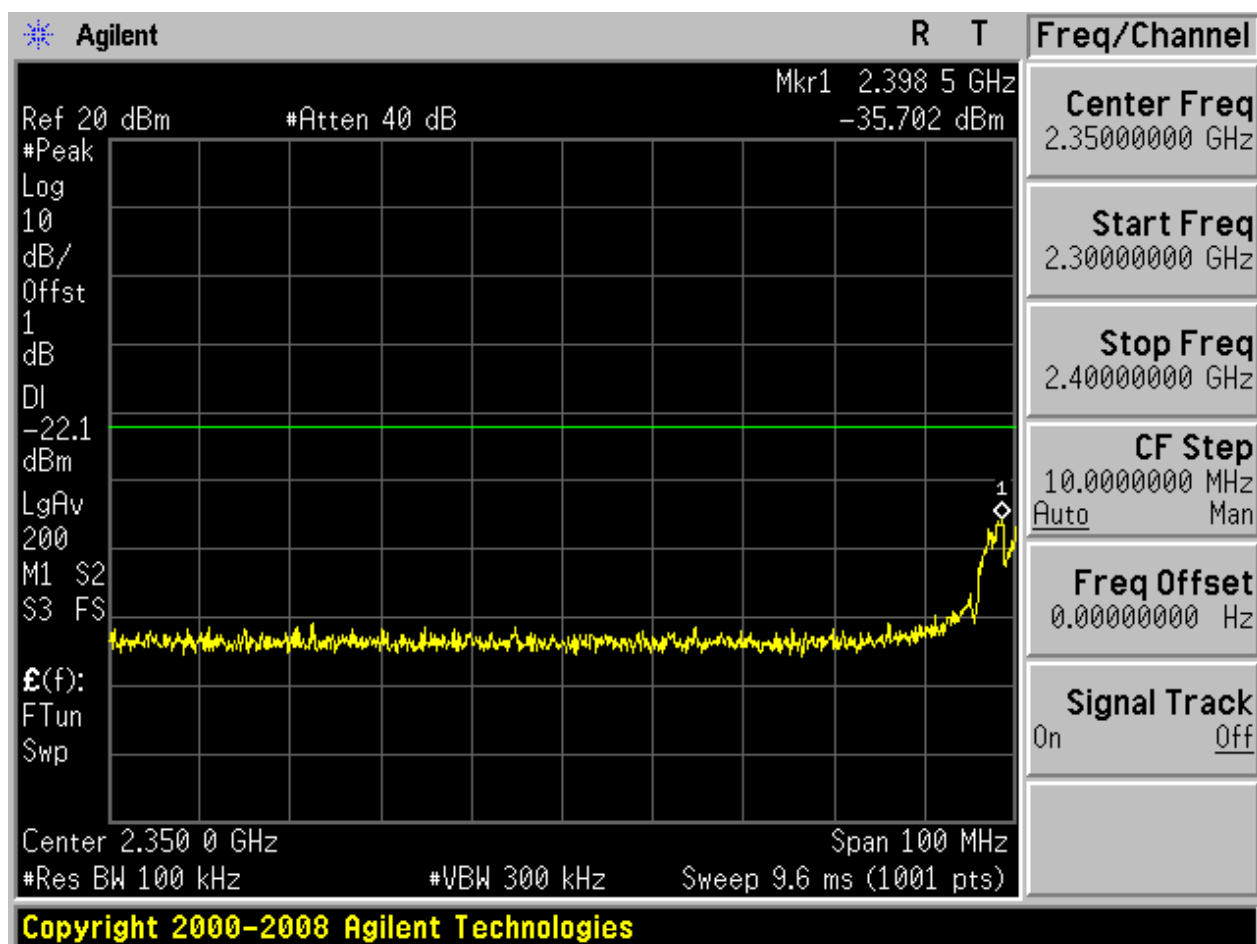


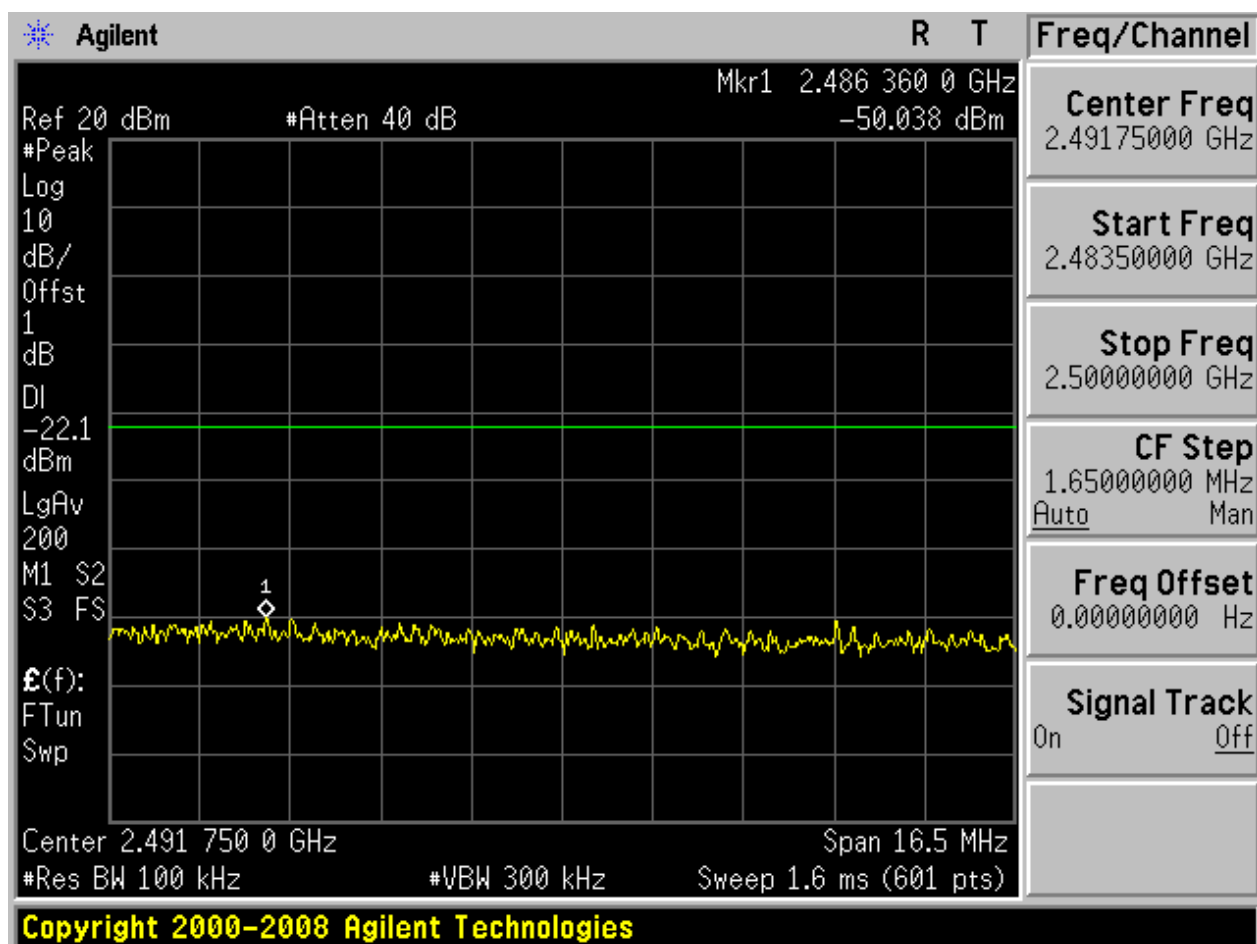
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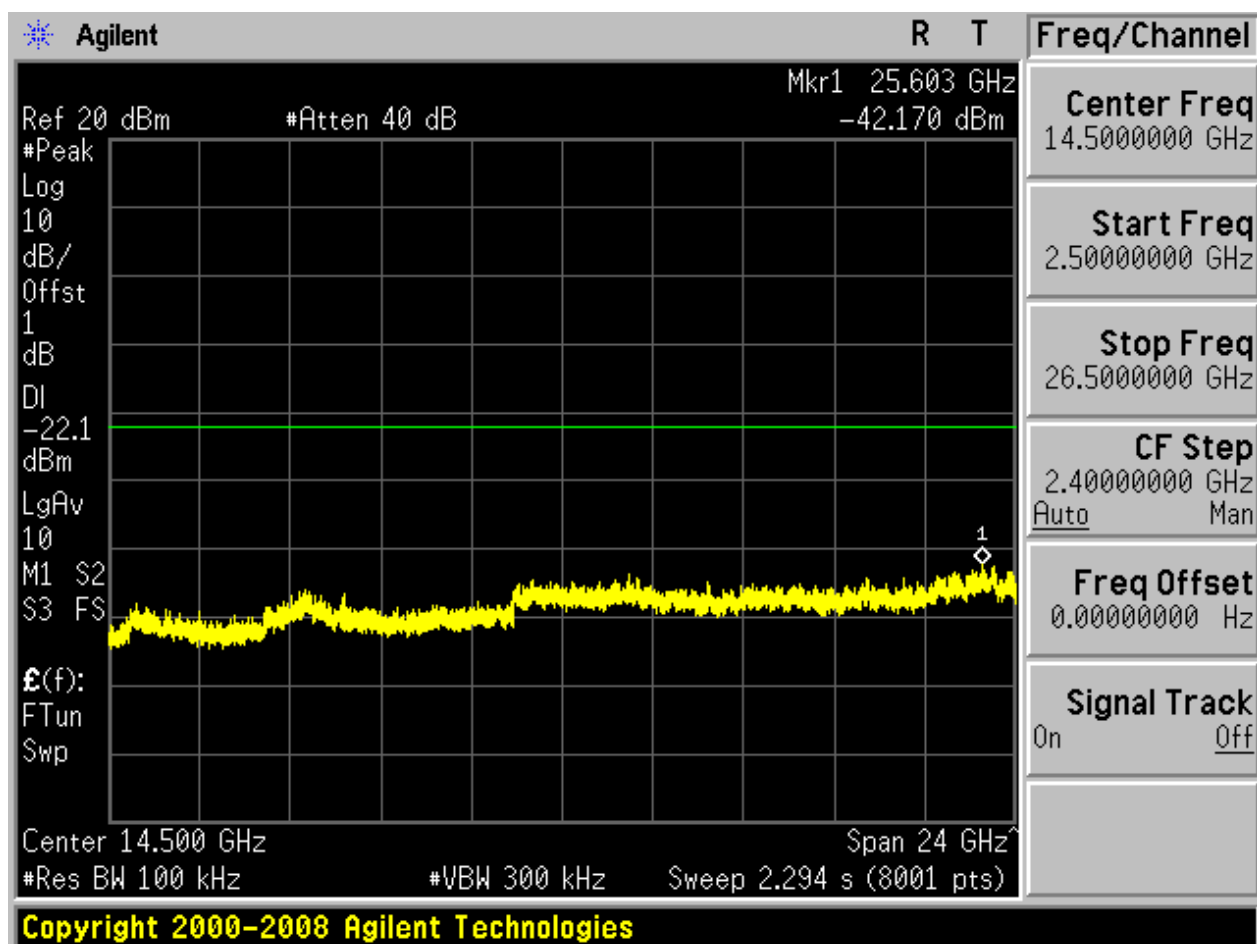








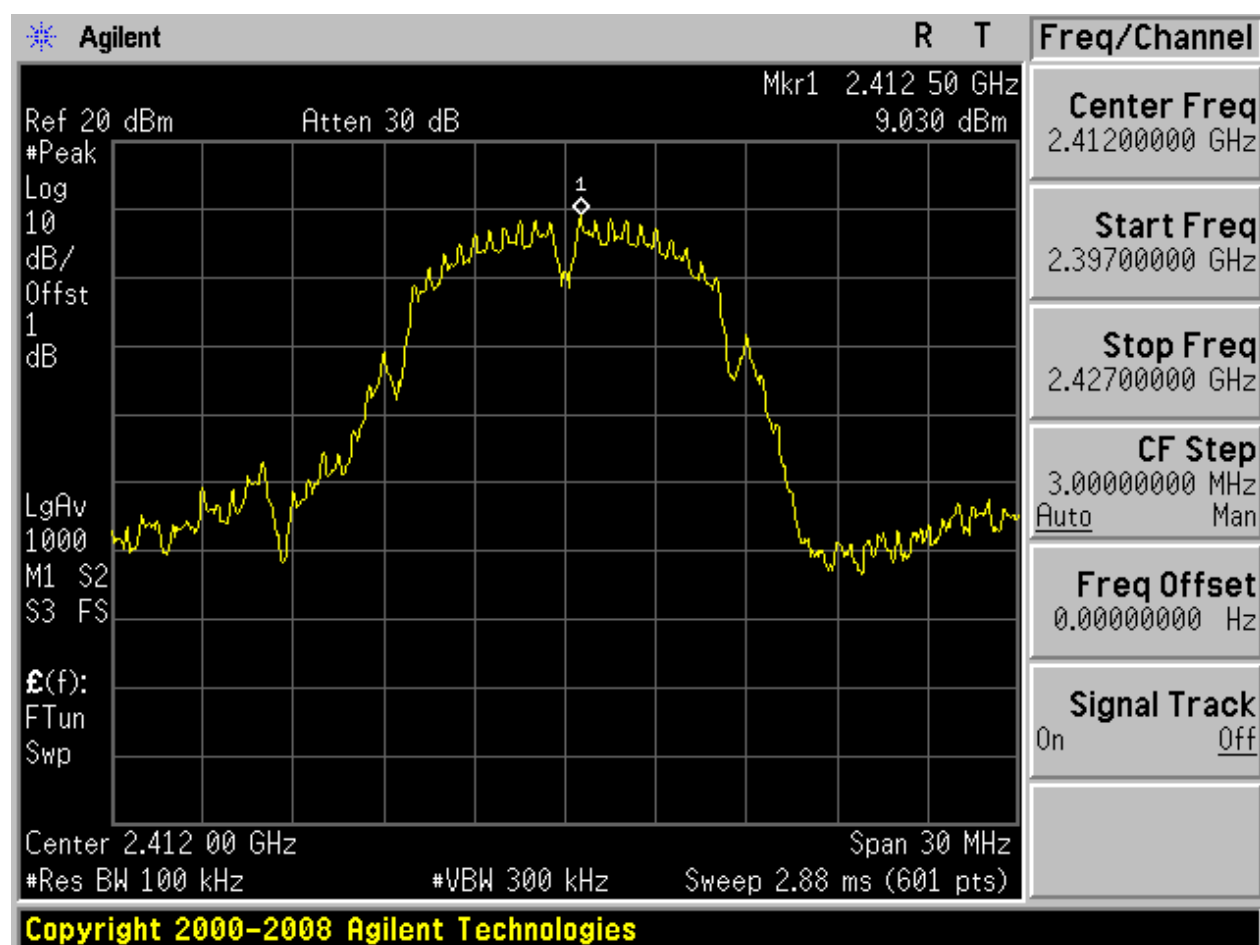






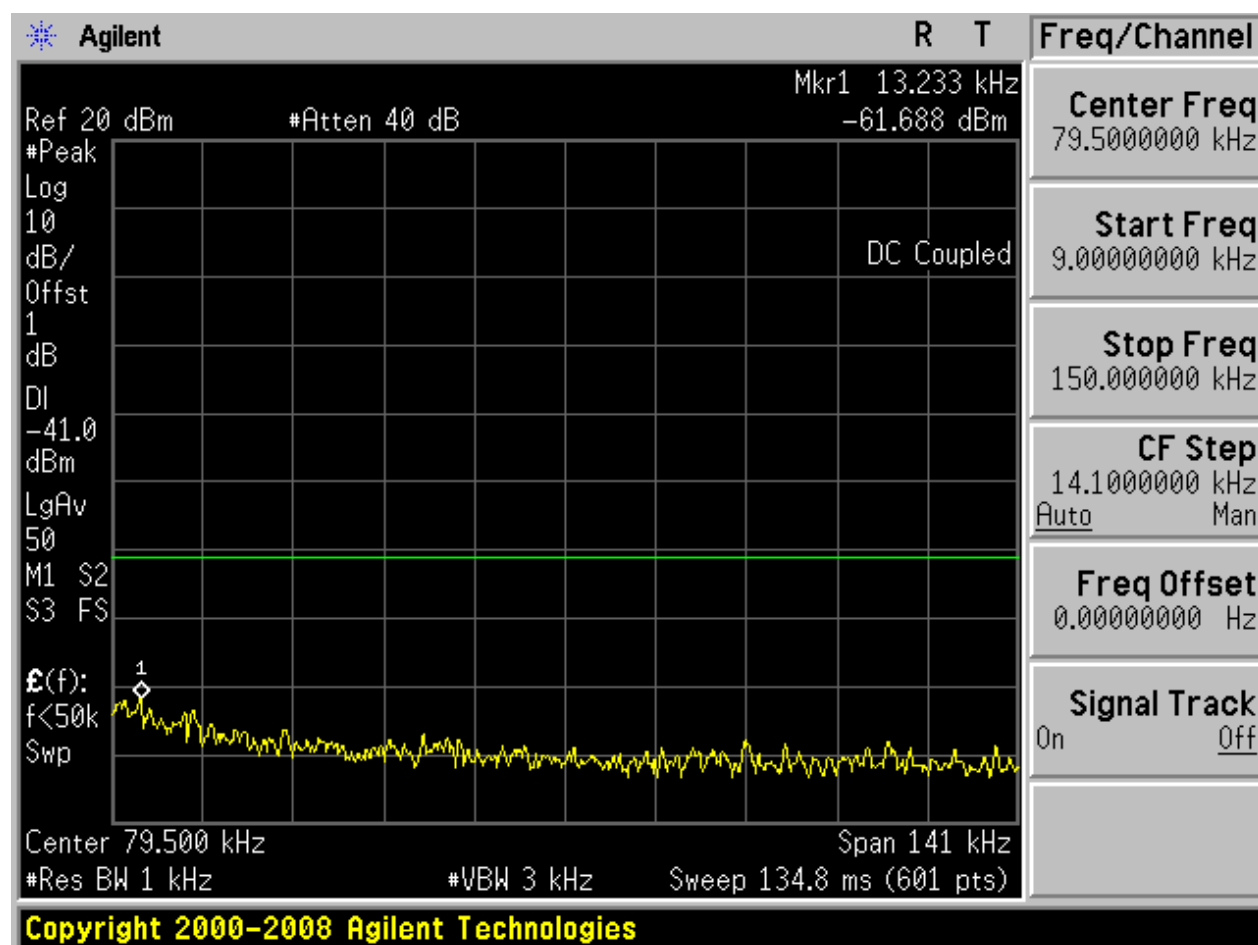
## 2.2 11B\_L@Ant 2

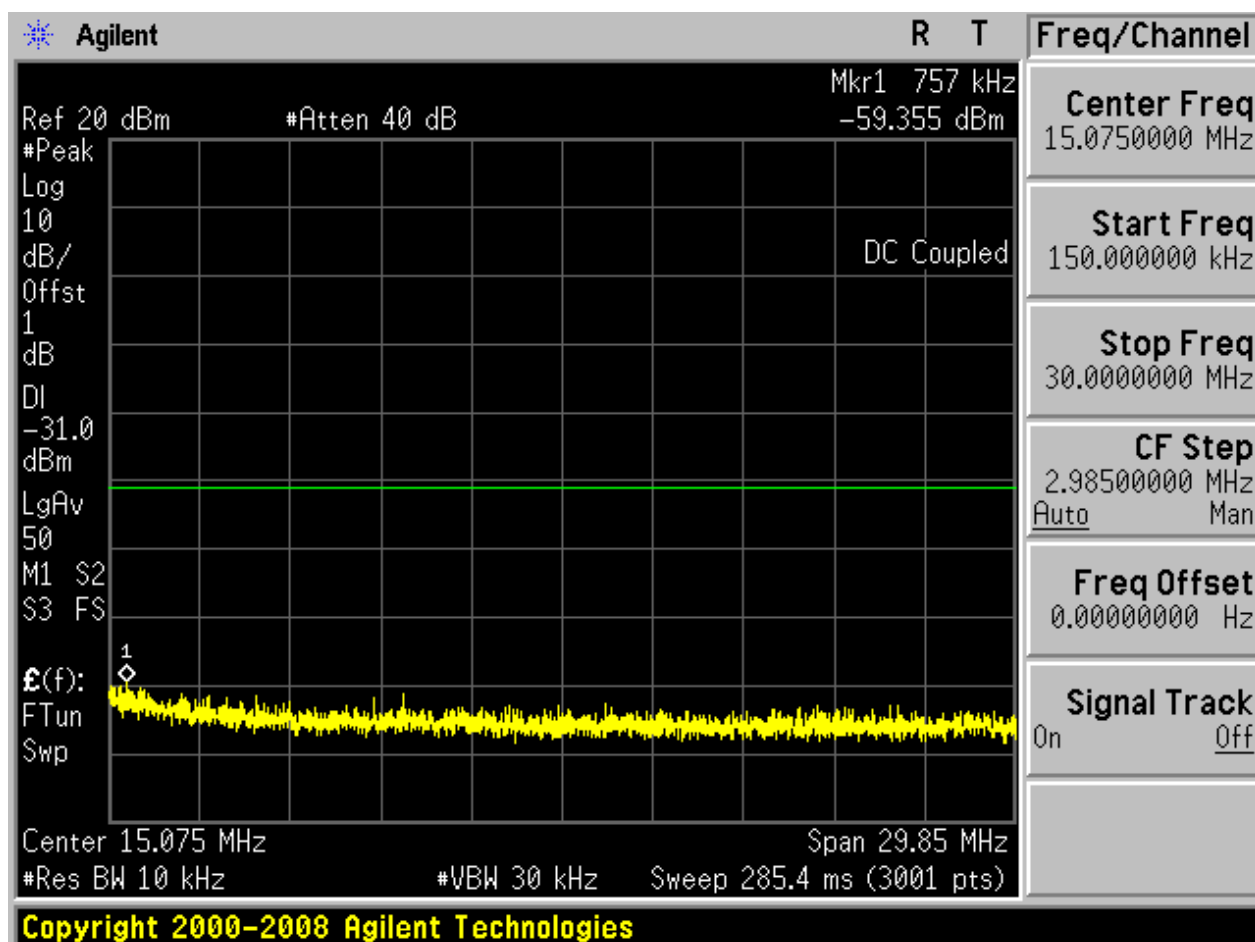
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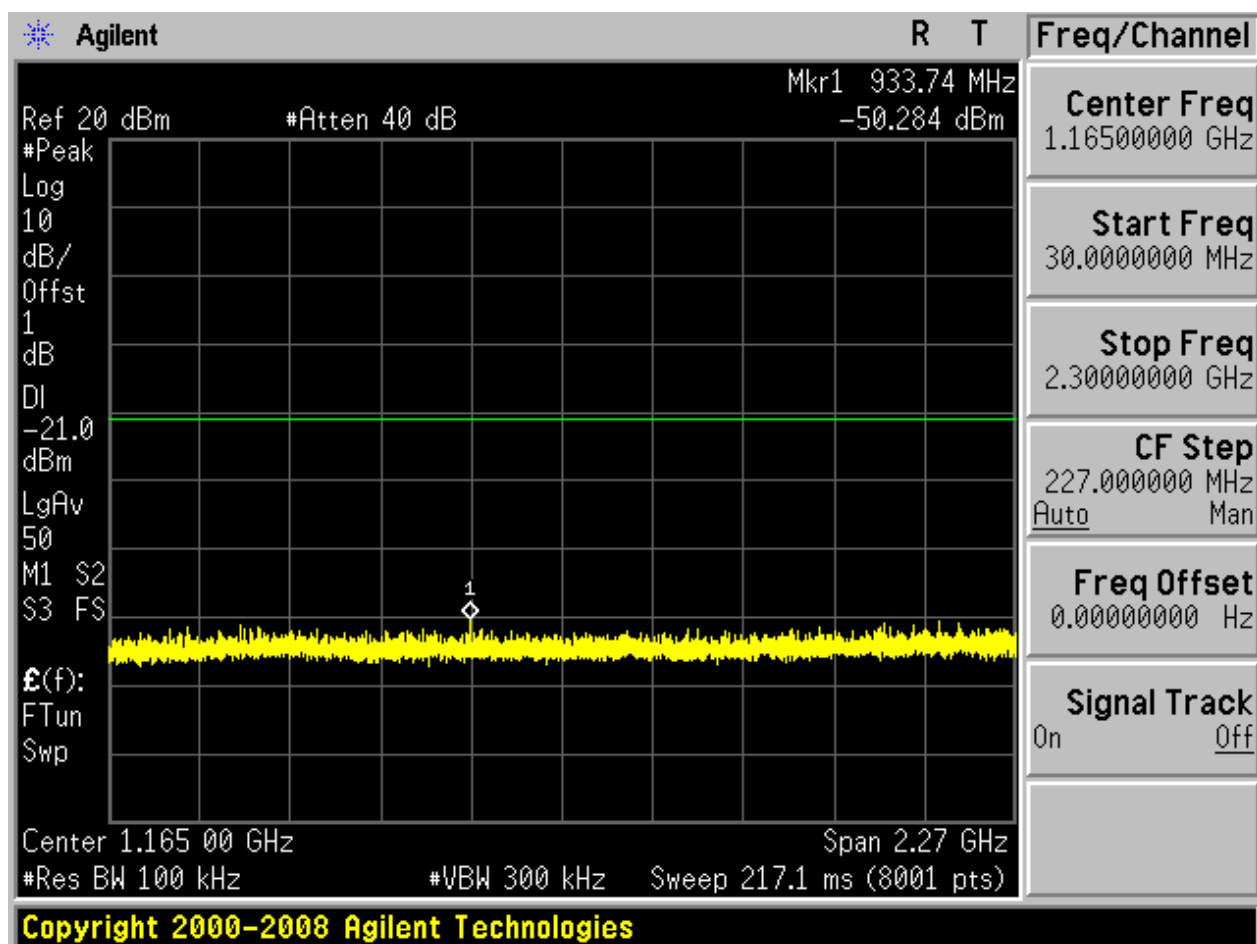


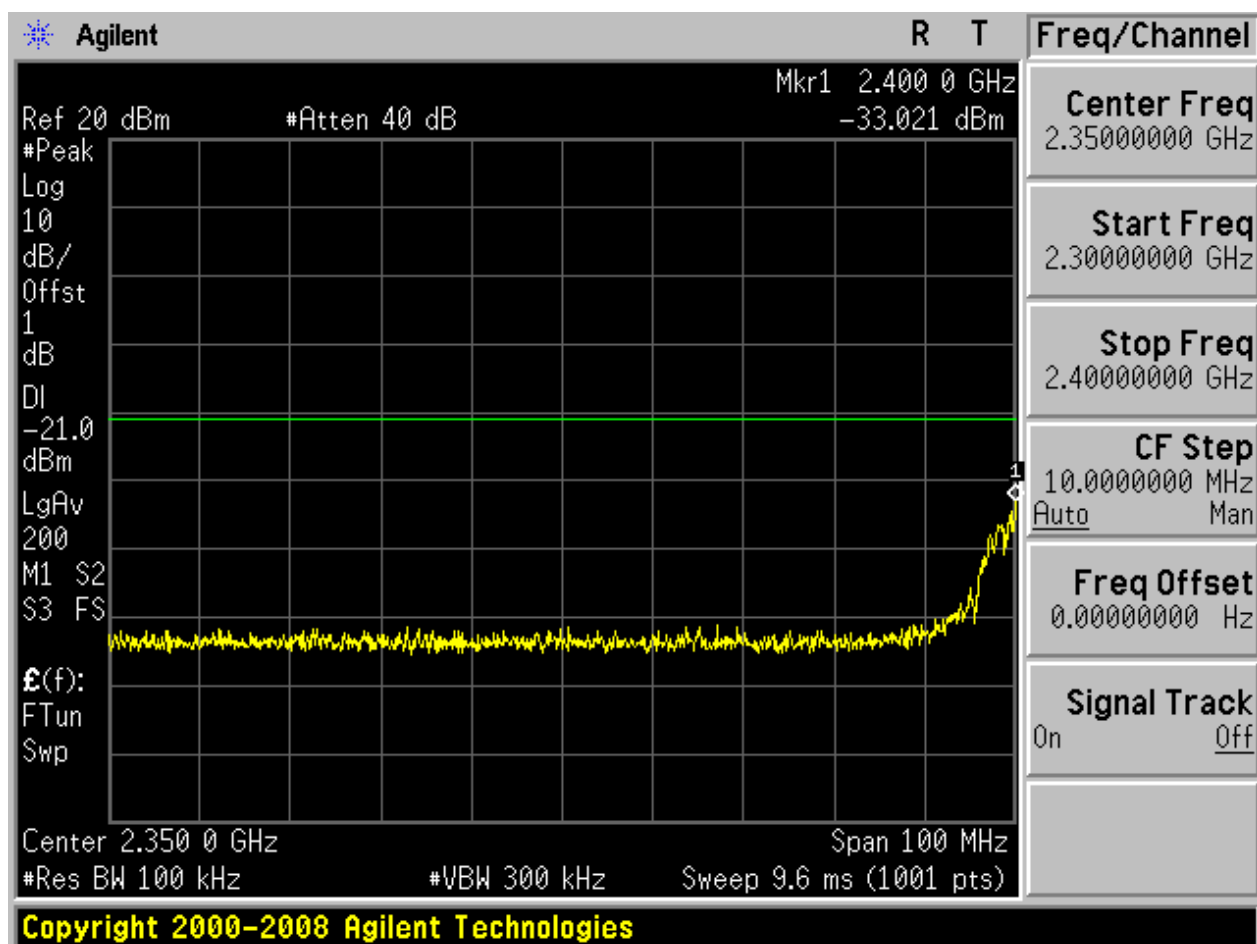


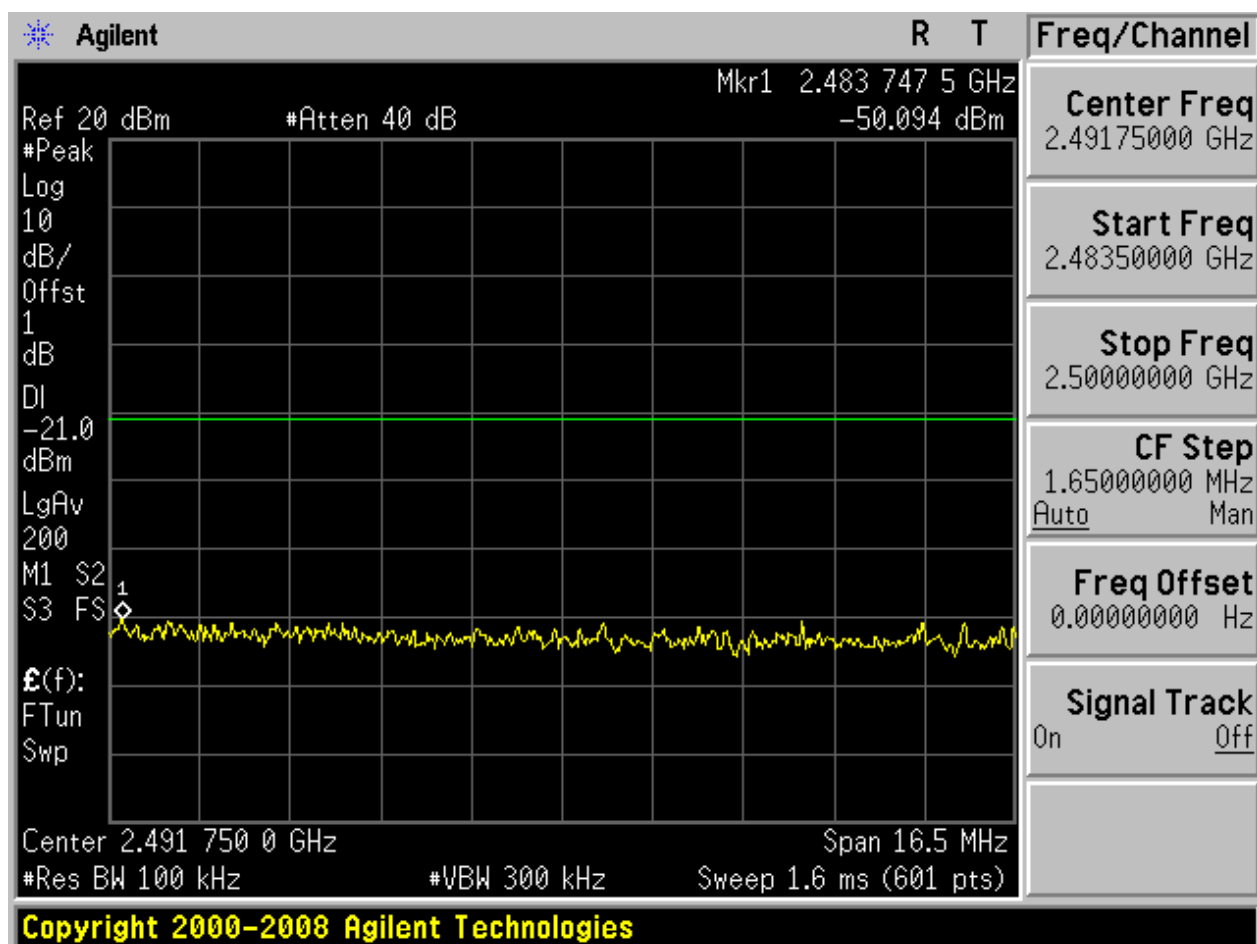
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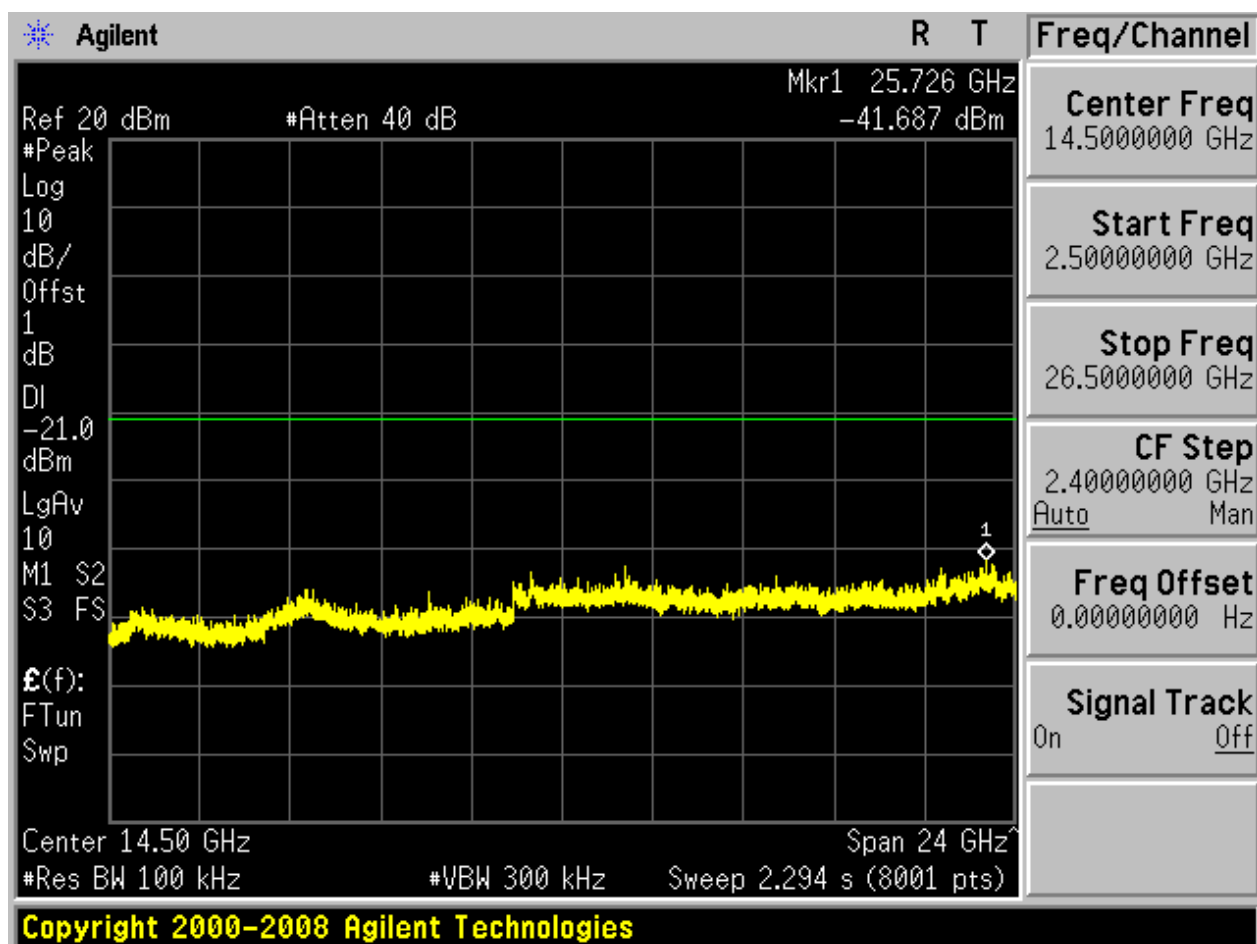






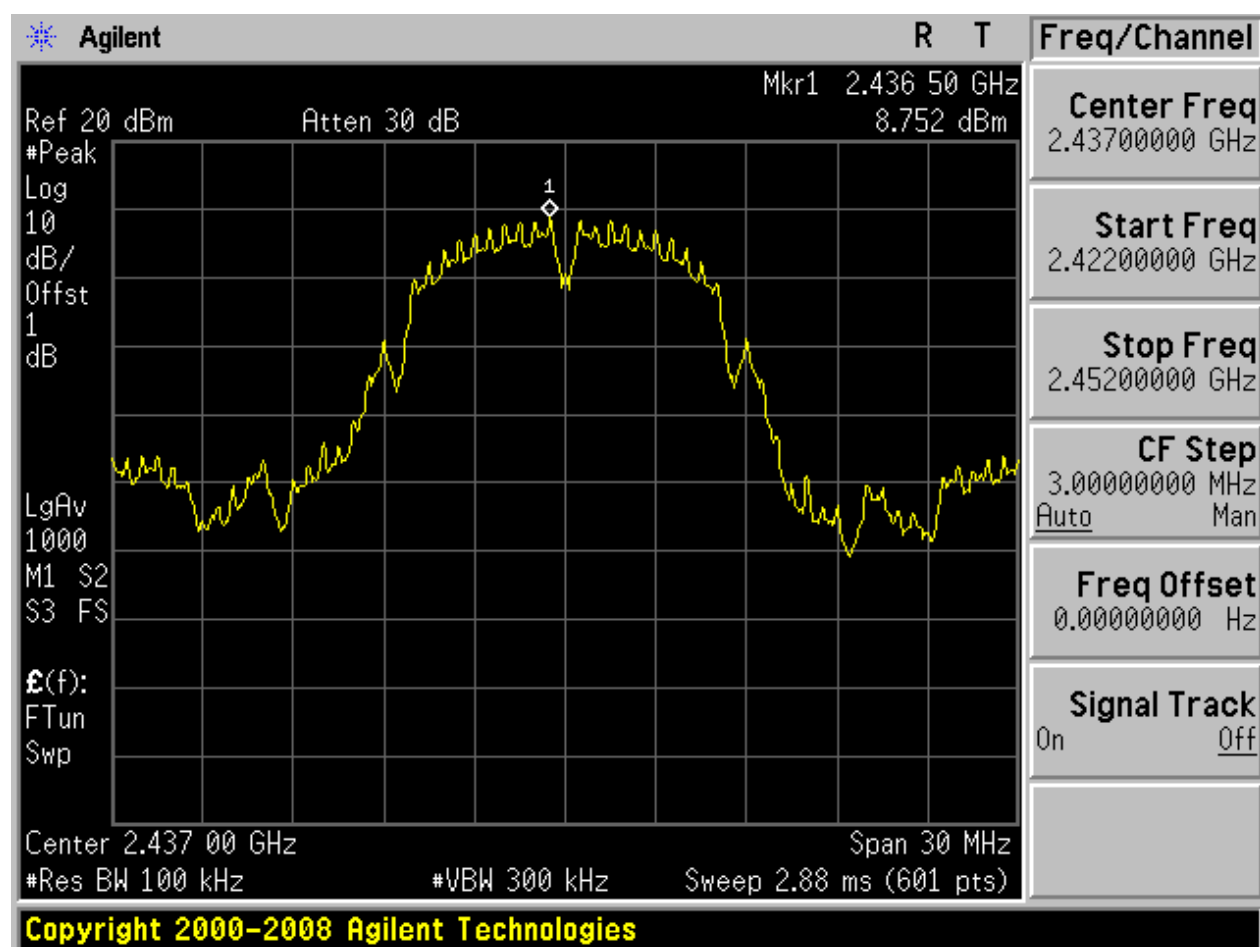






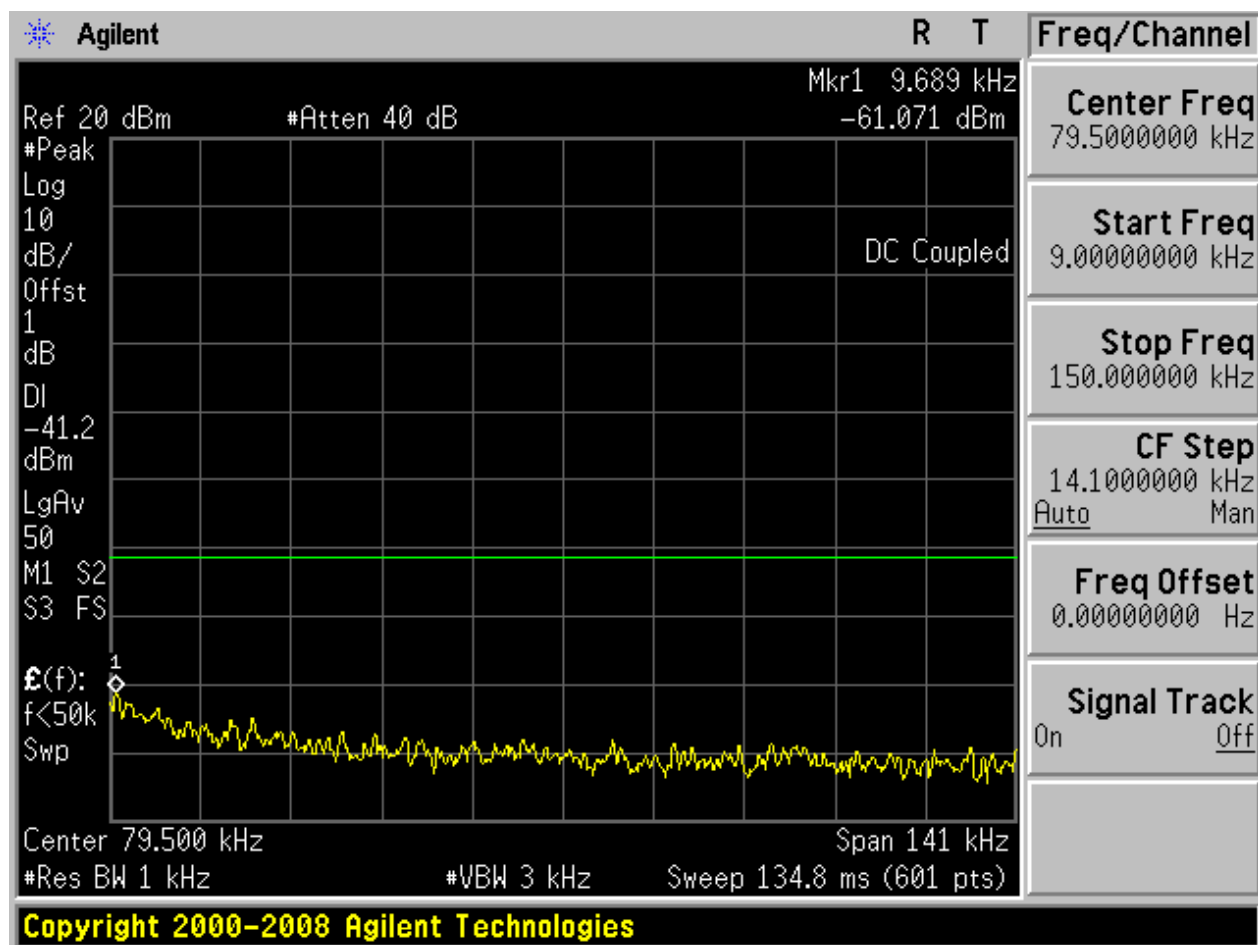
## 2.3 11B\_M@Ant 1

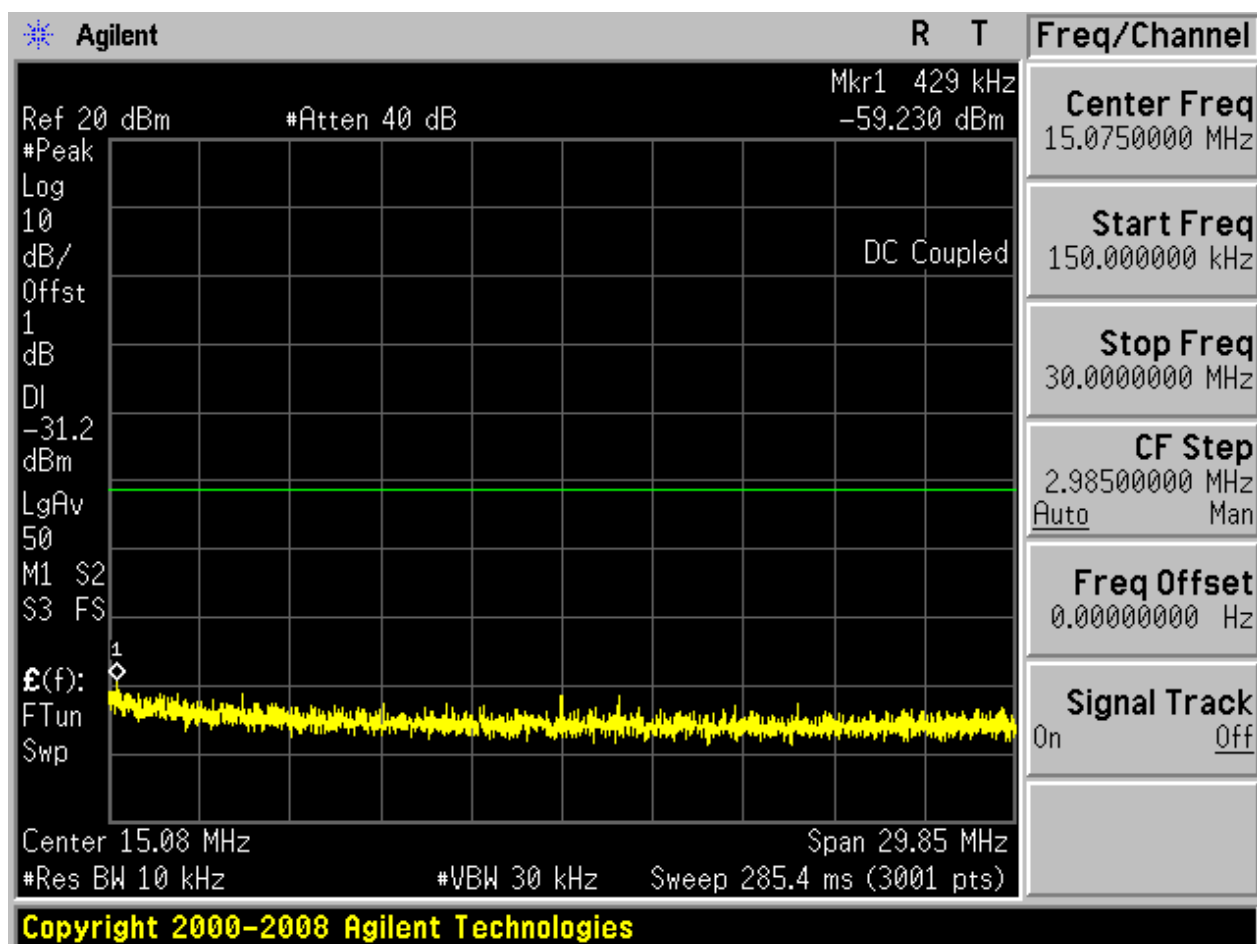
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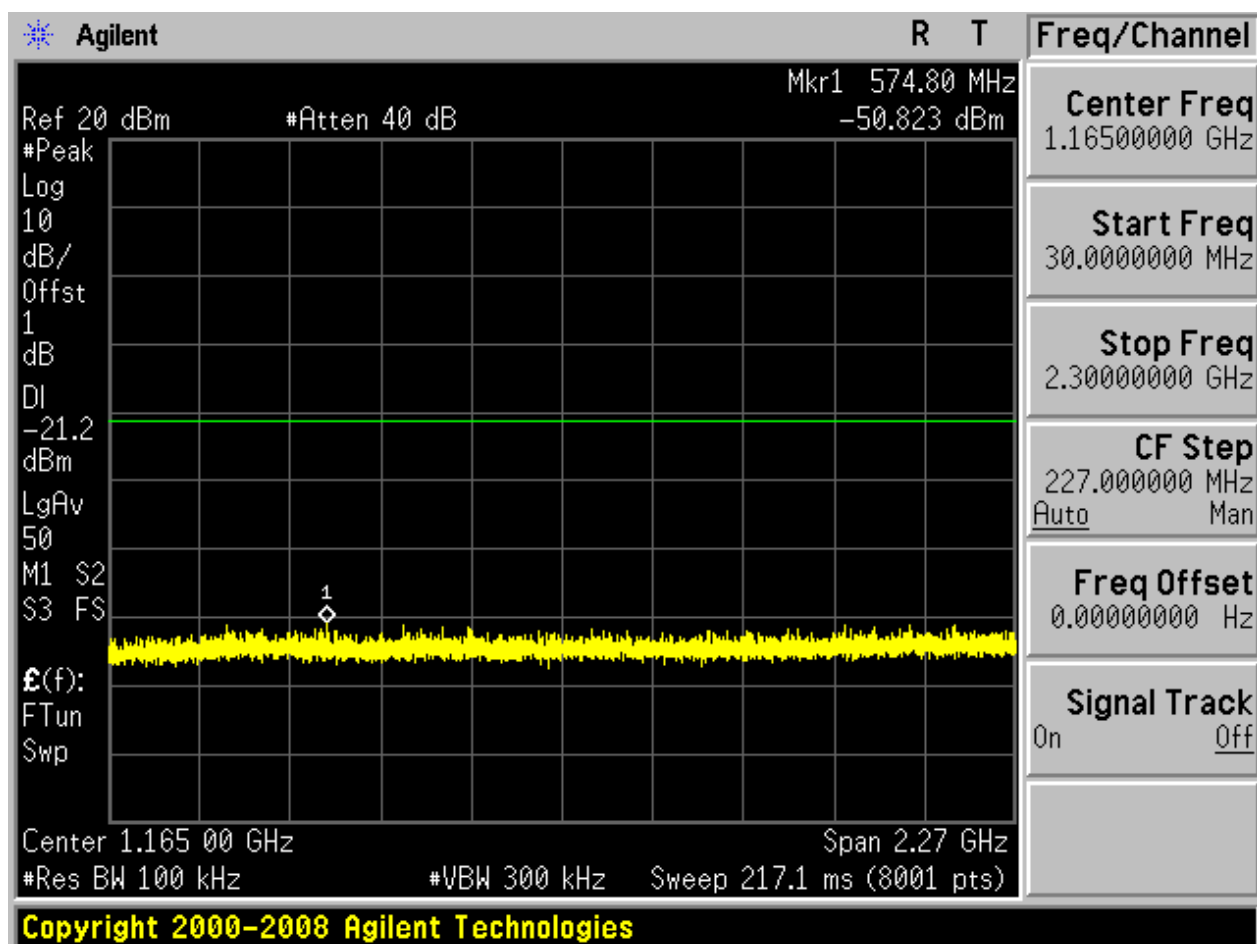


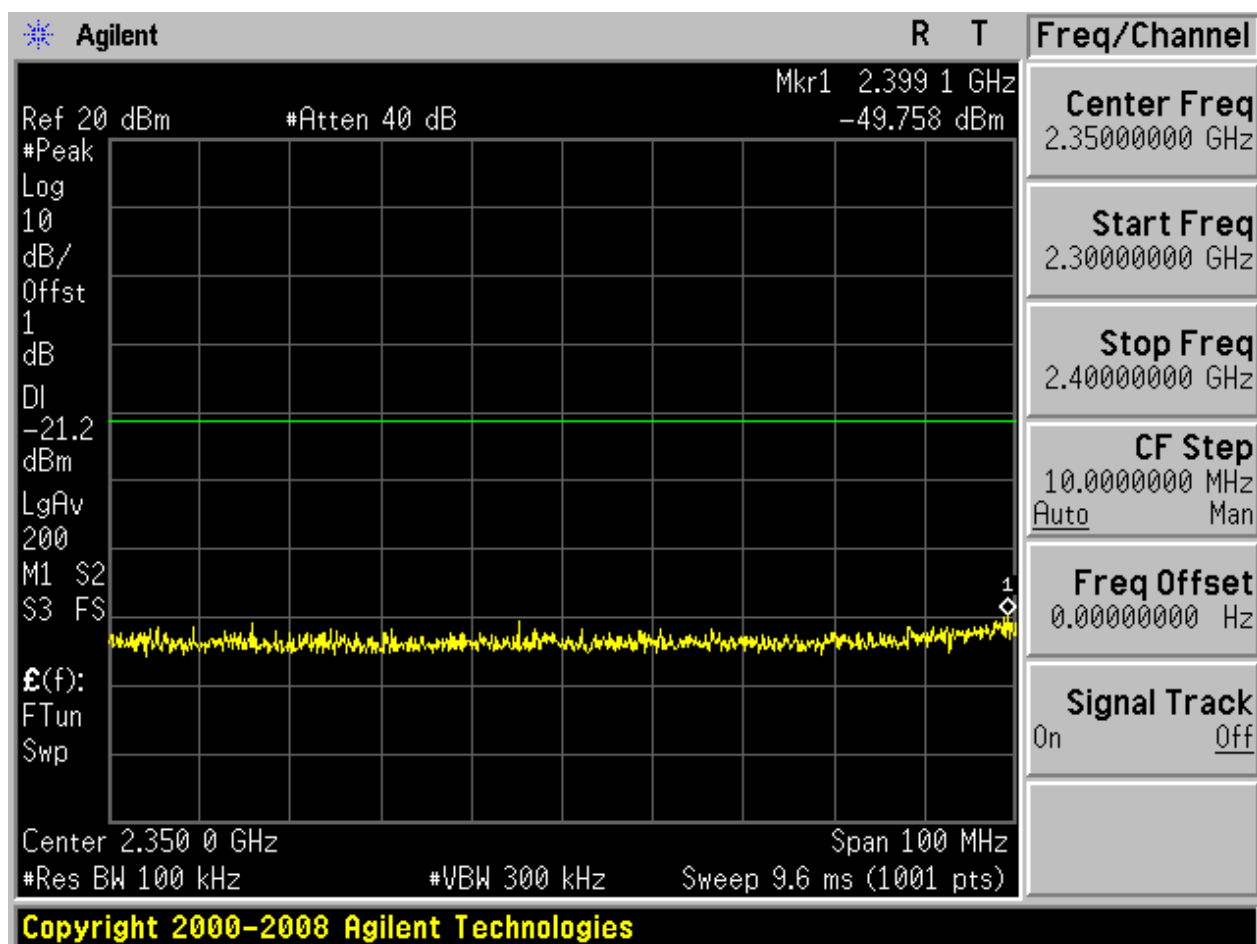


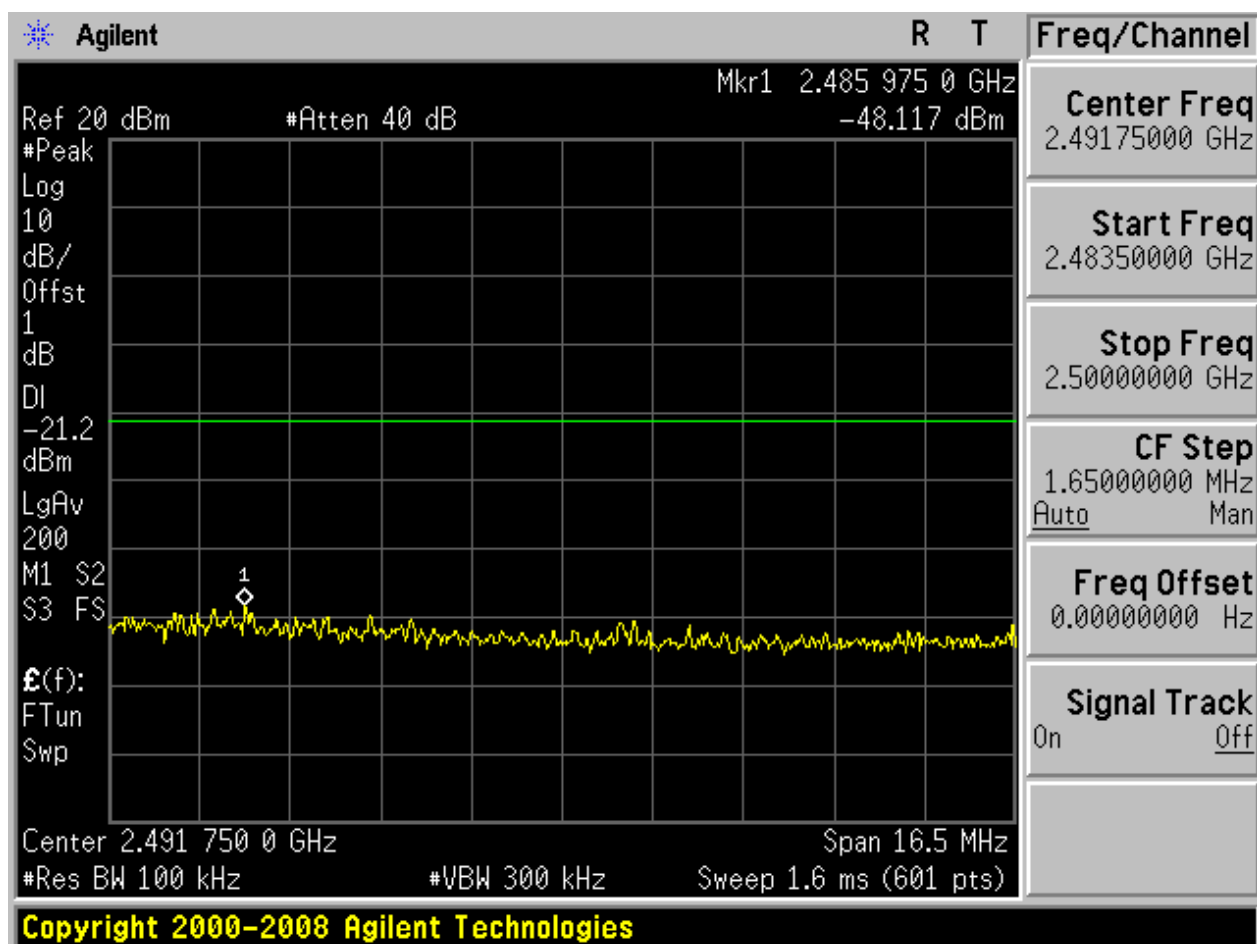
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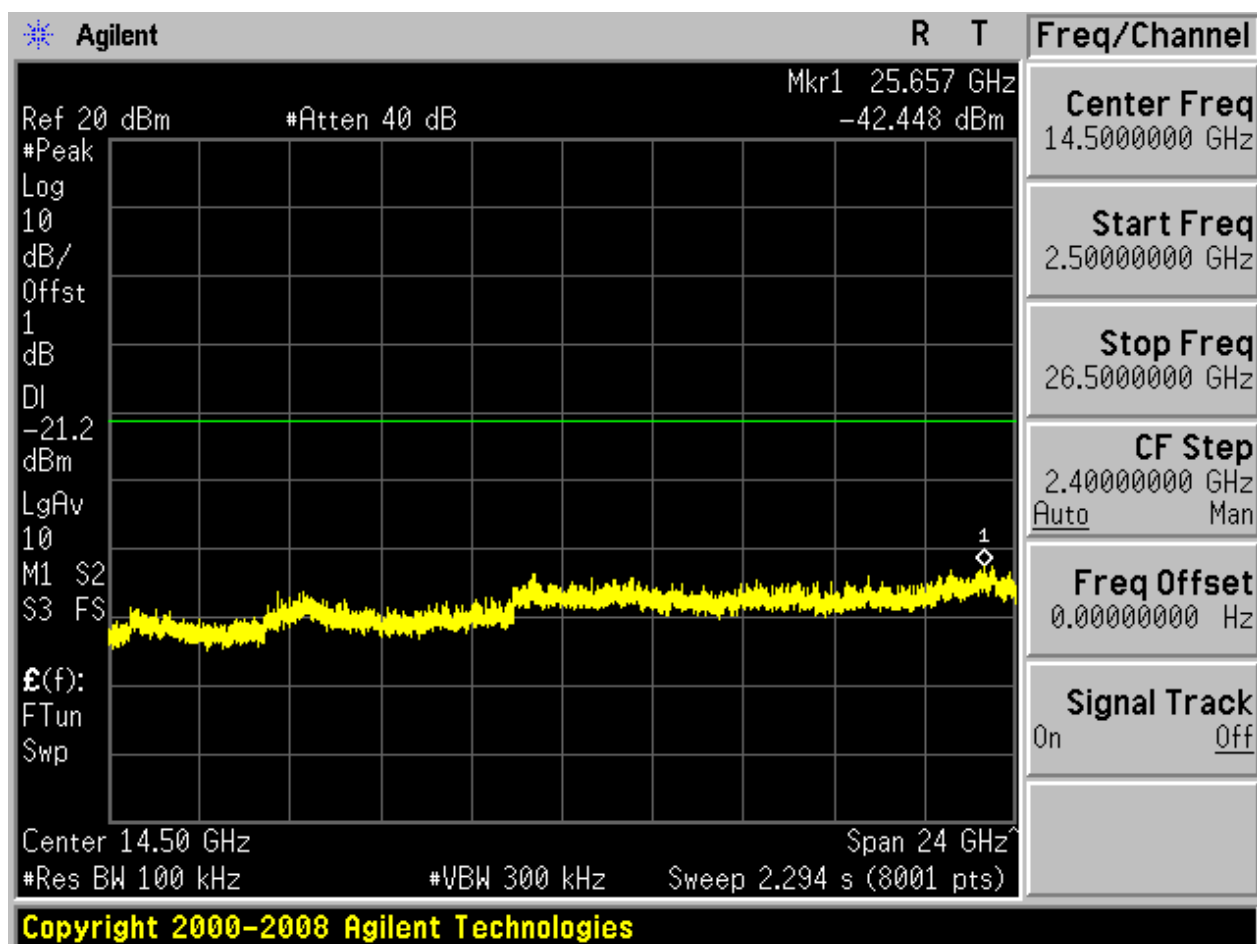






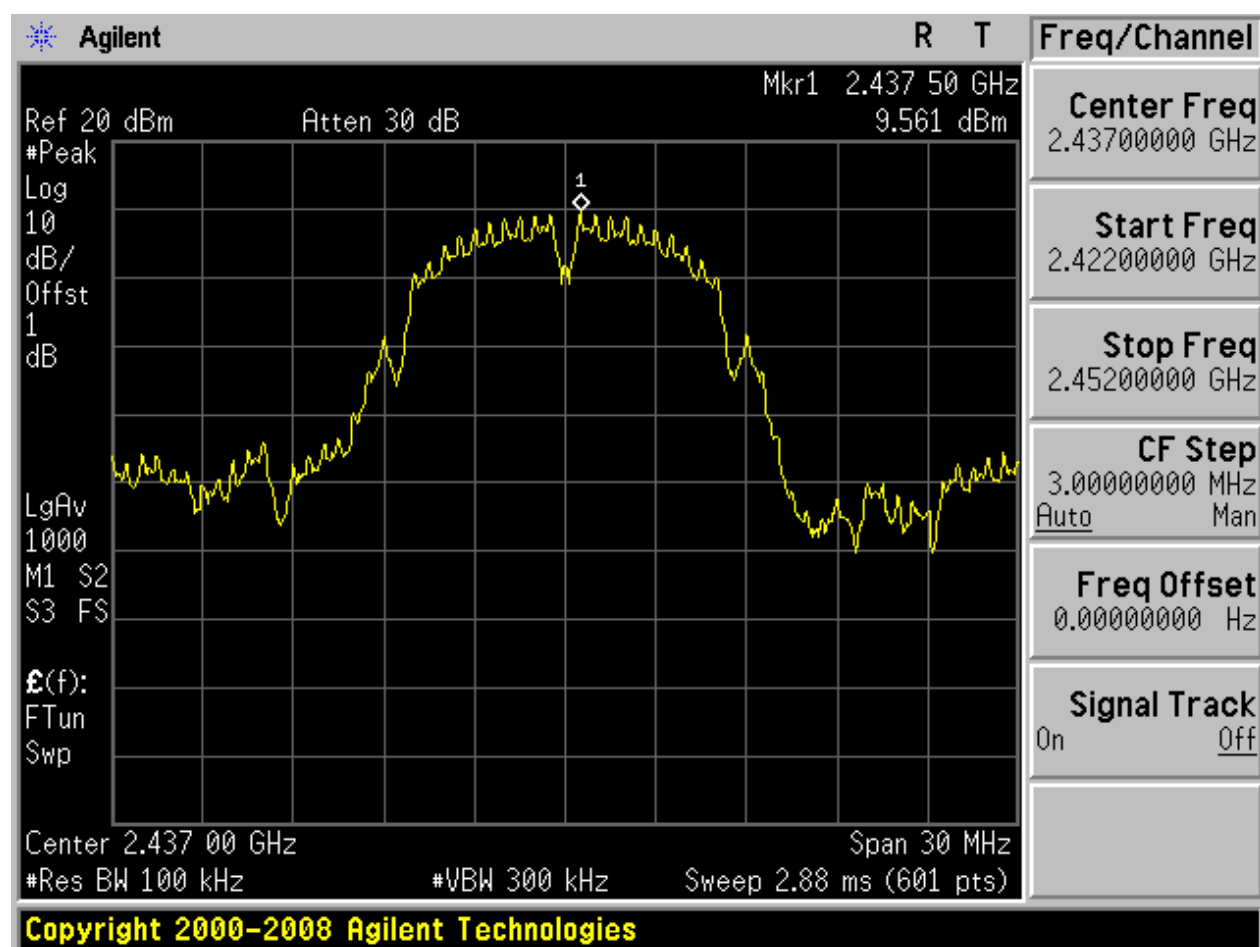




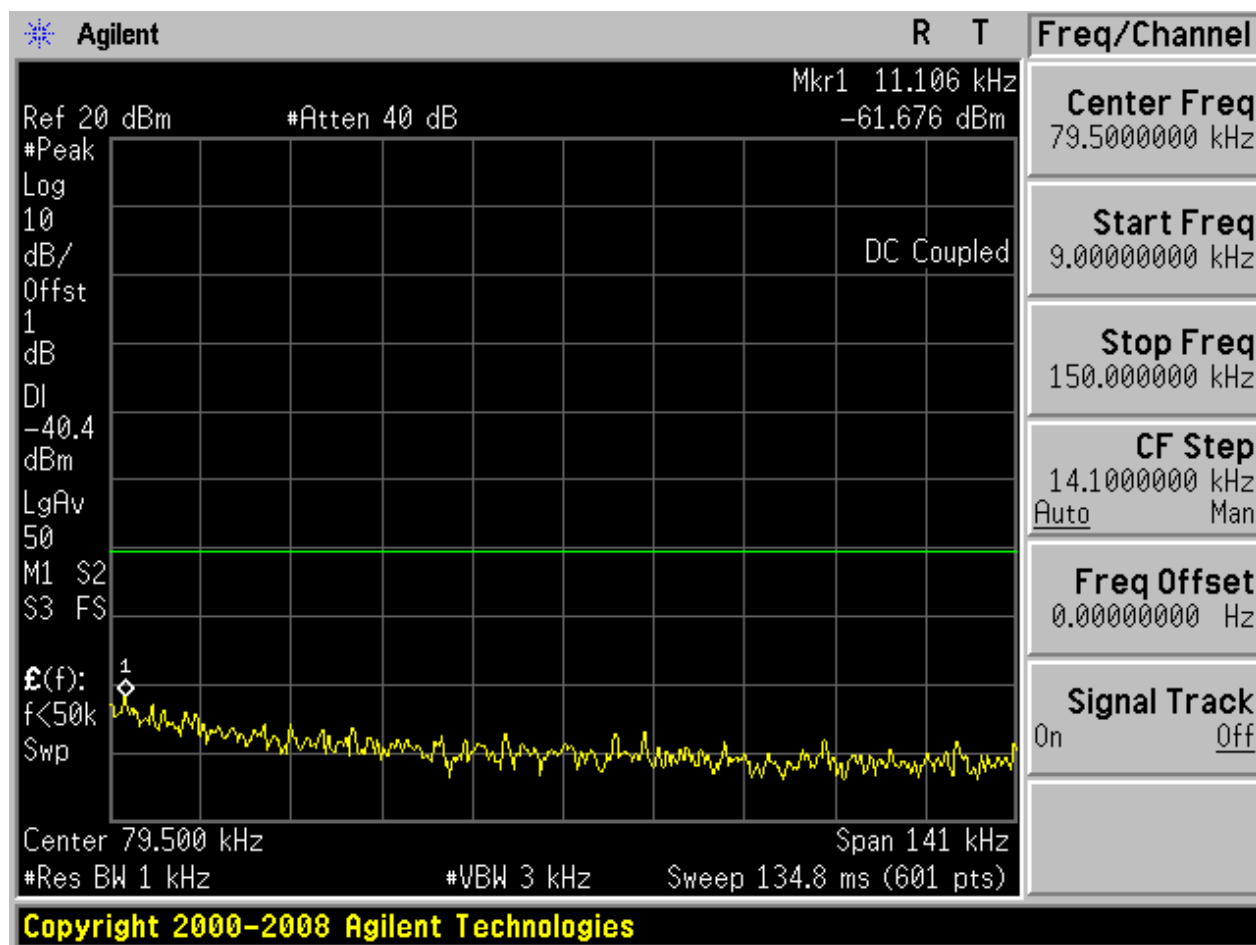


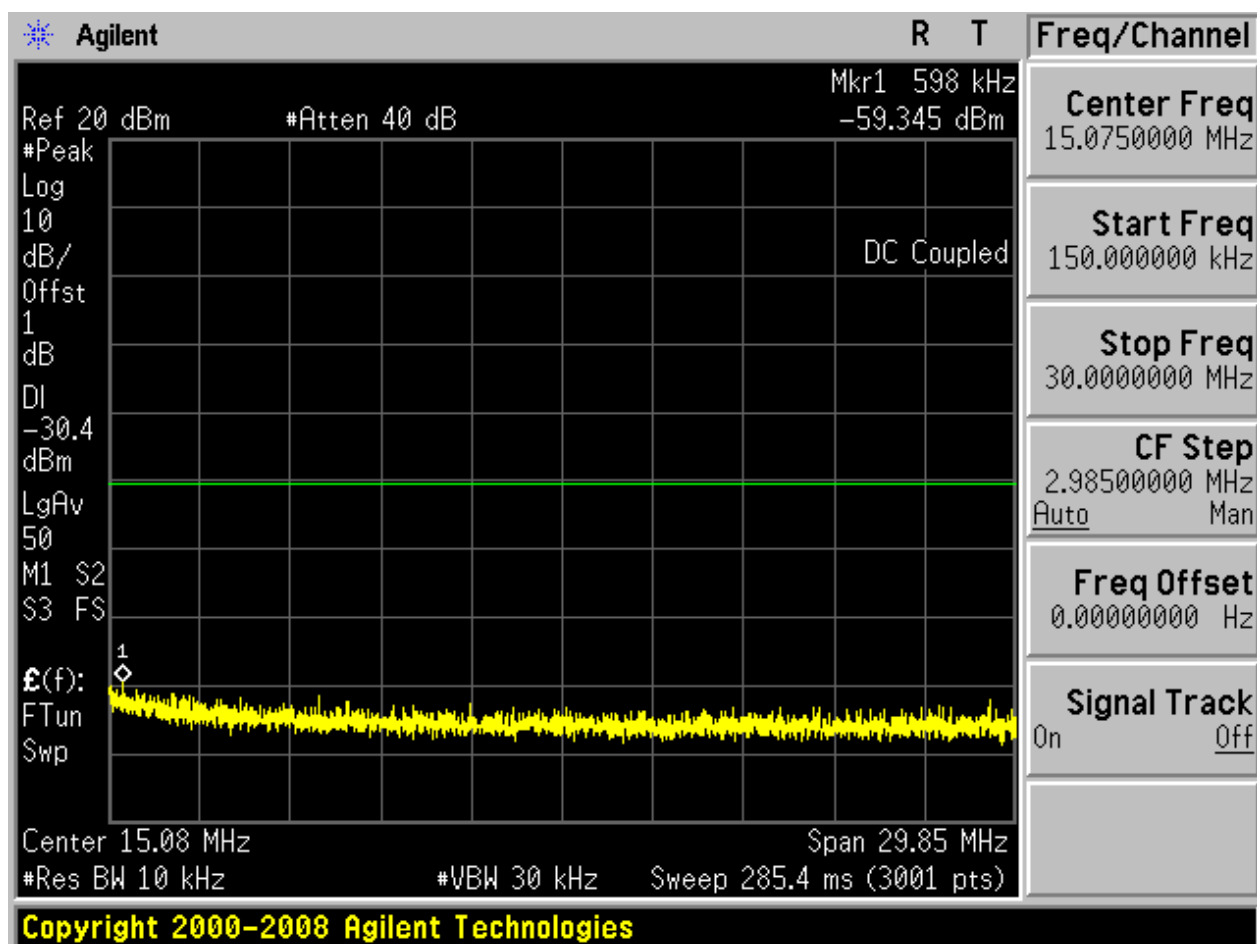
## 2.4 11B\_M@Ant 2

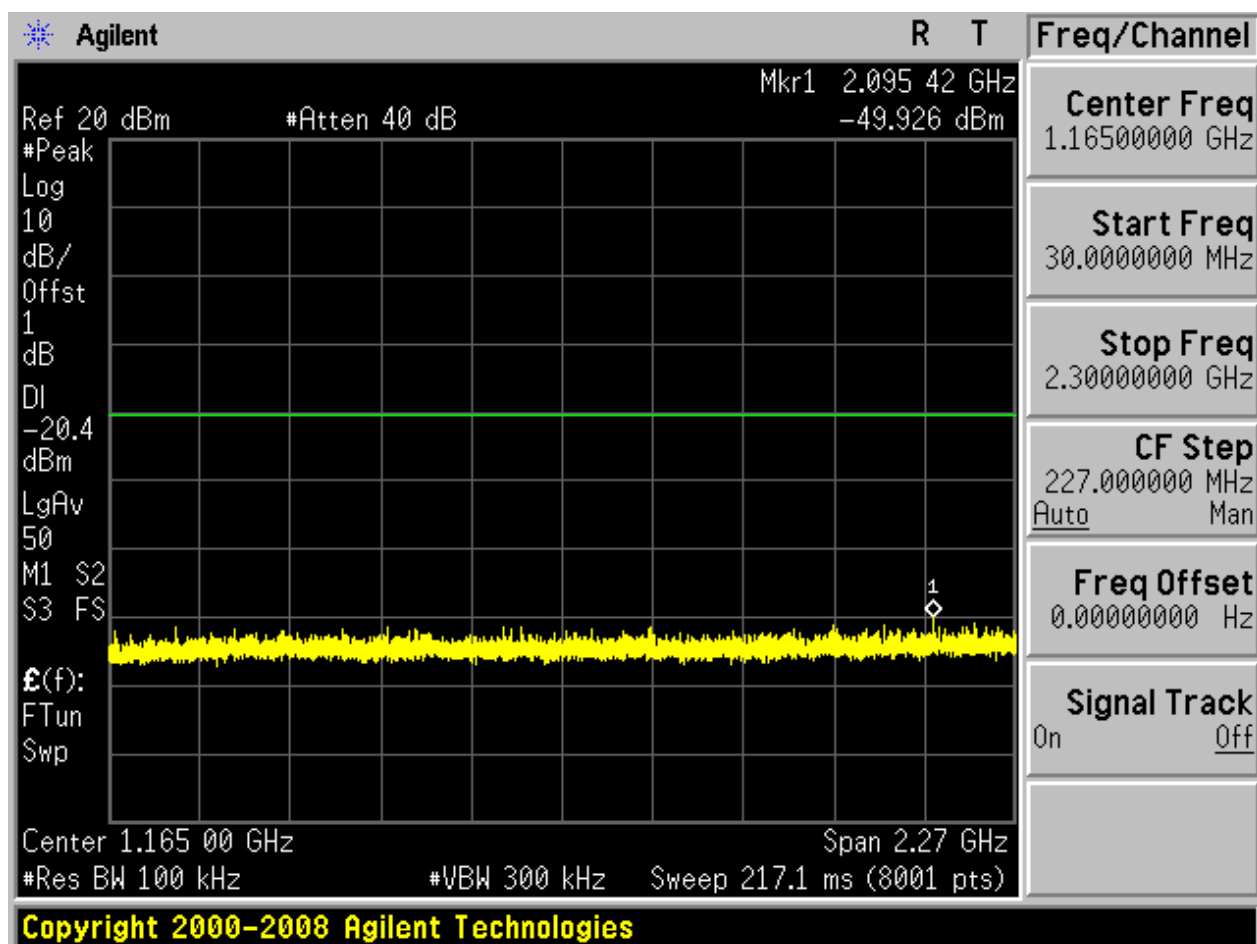
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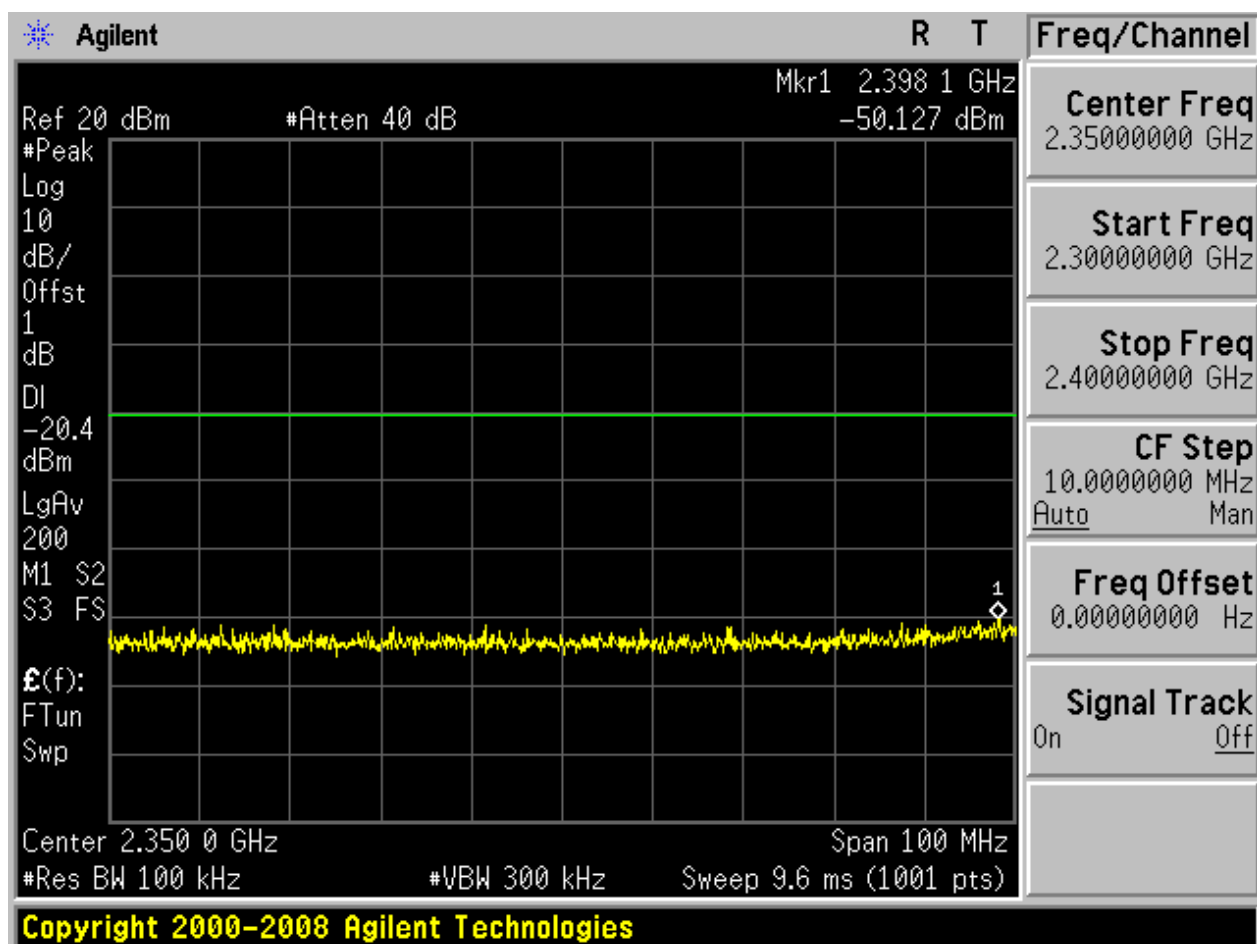


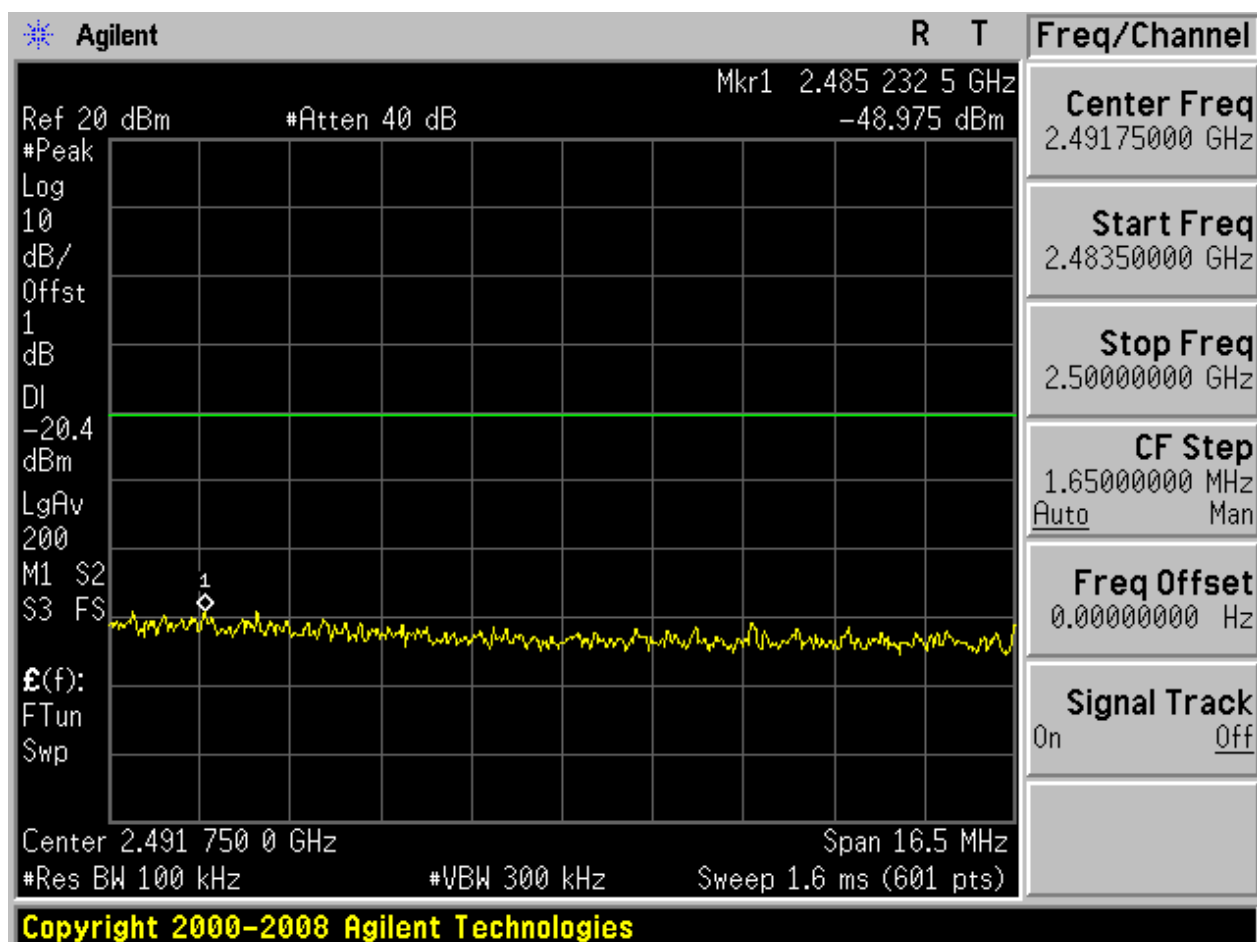
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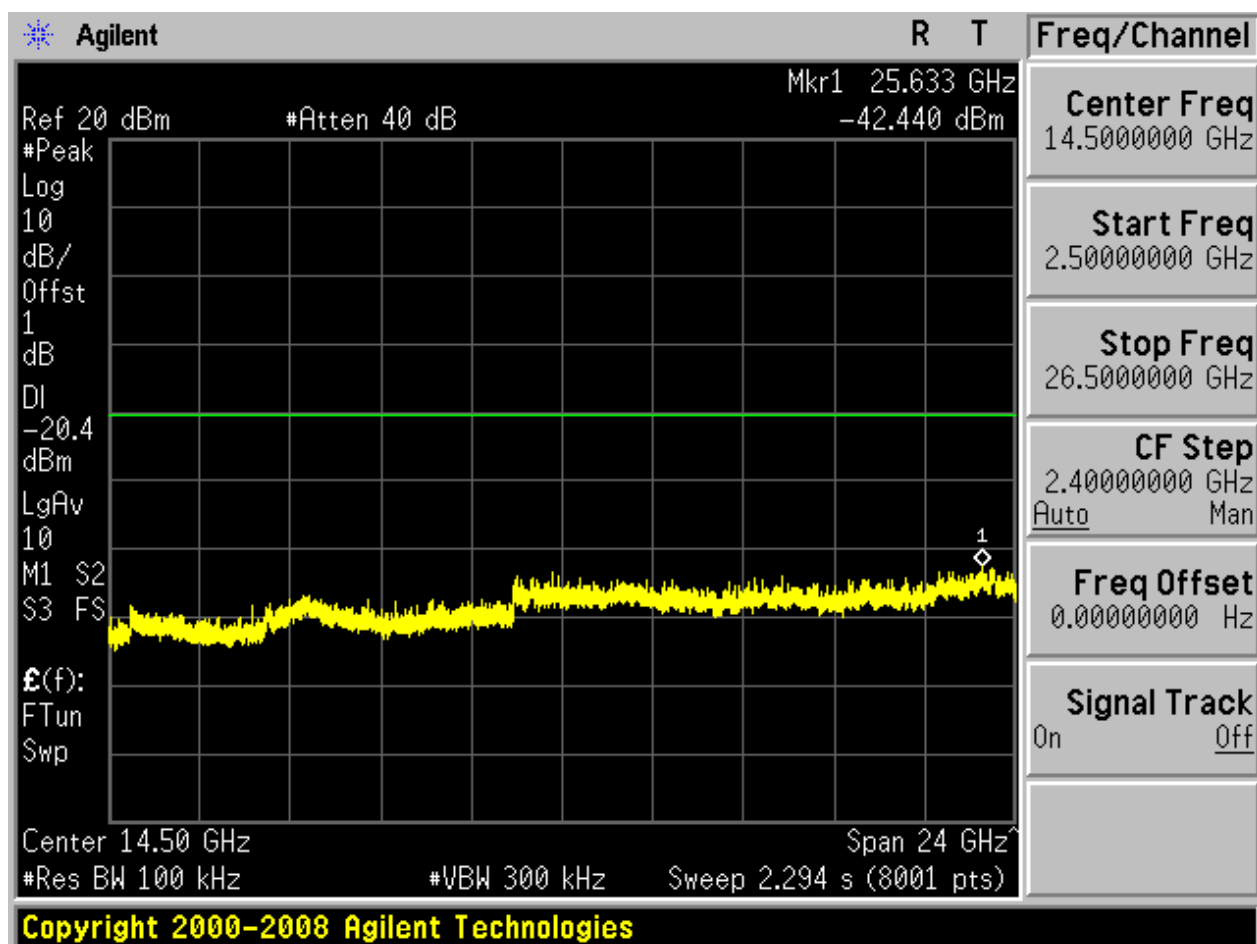






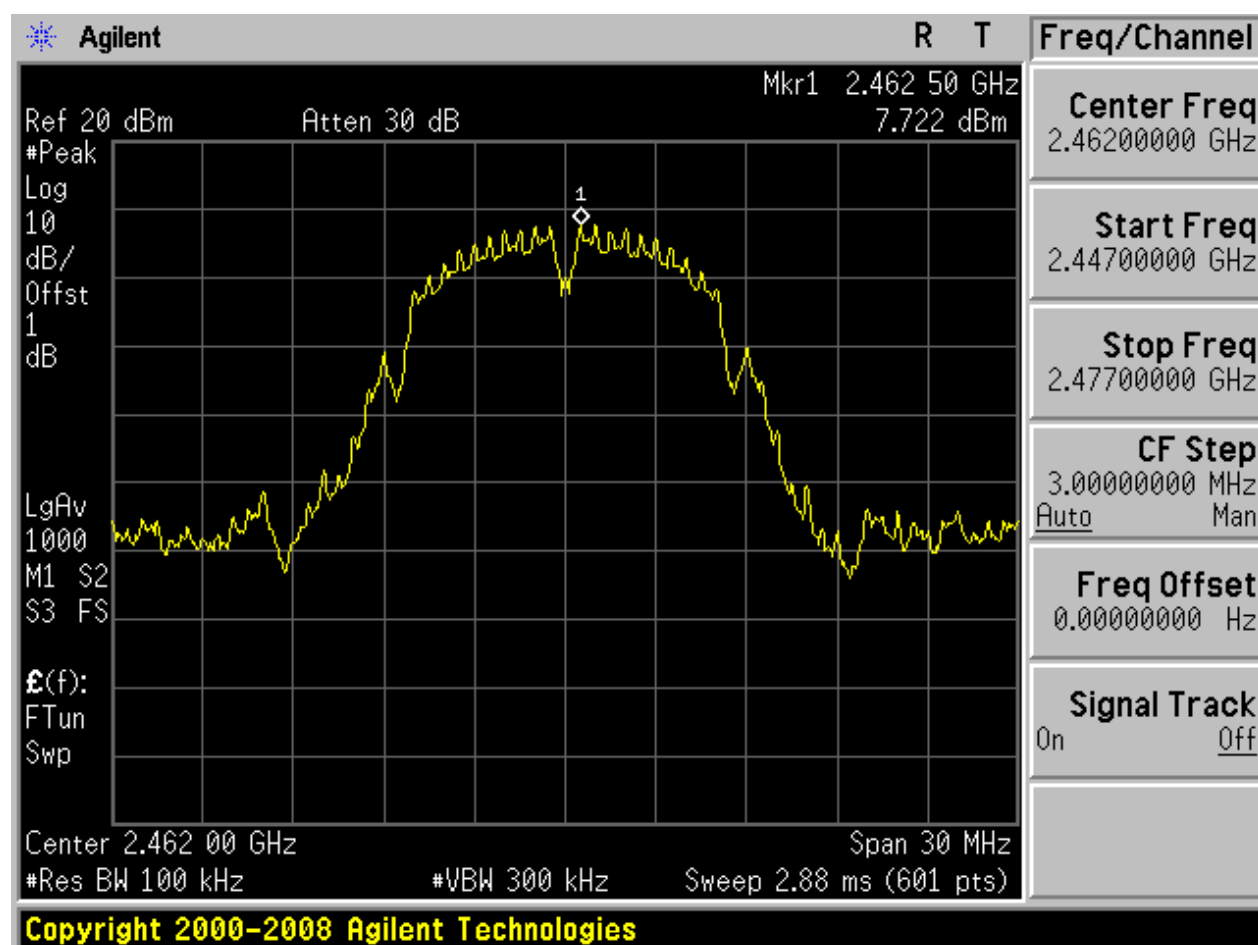






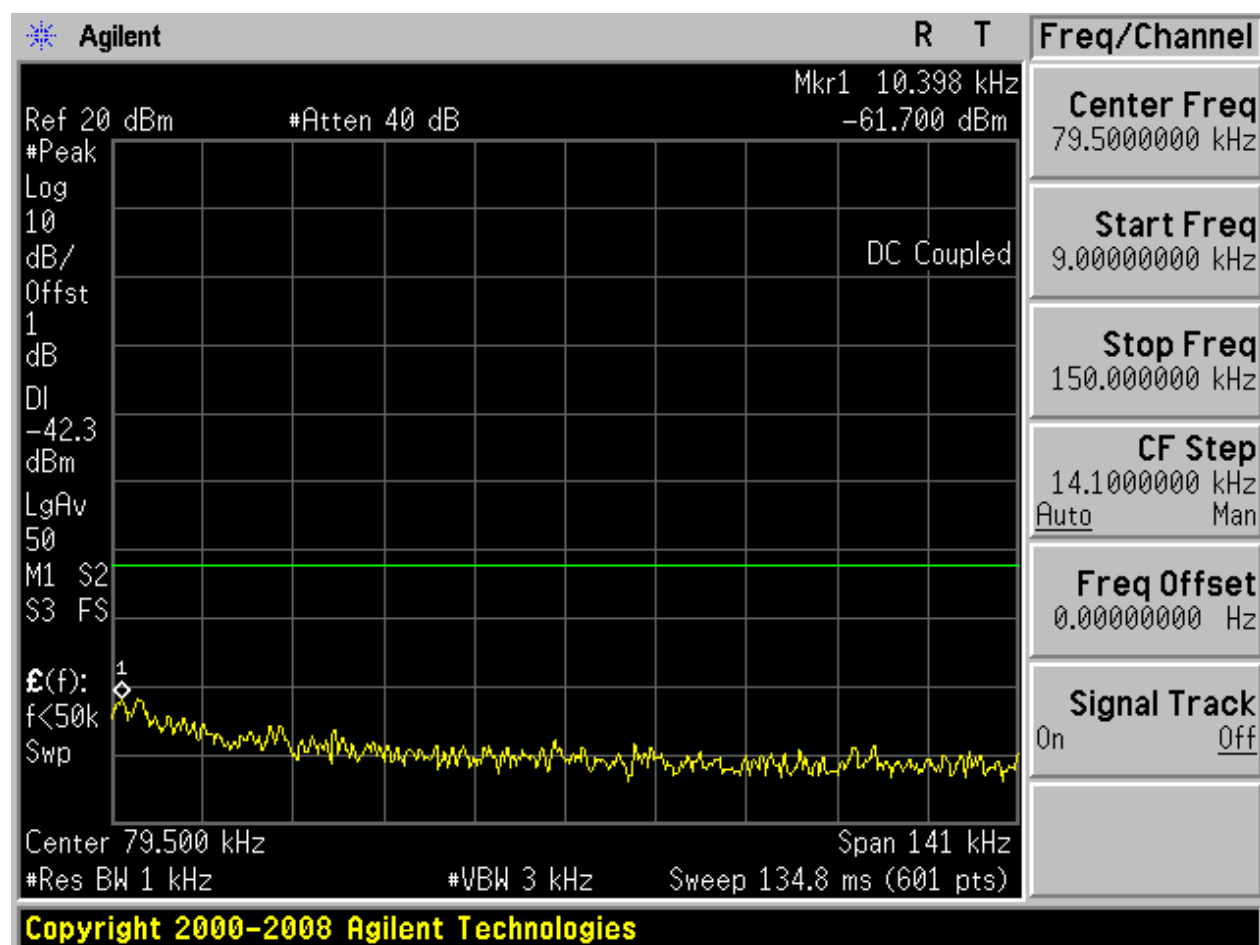
## 2.5 11B\_H@Ant 1

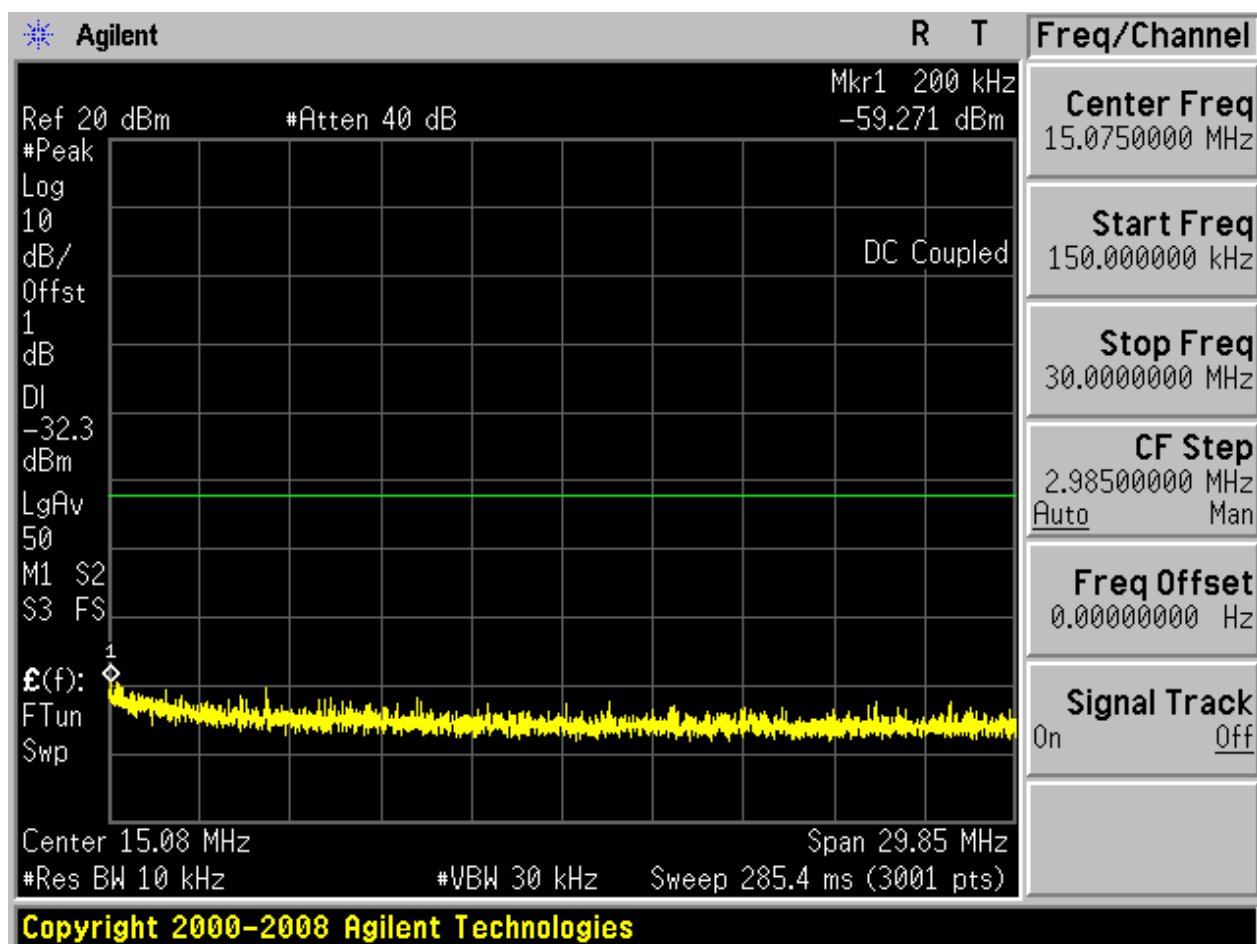
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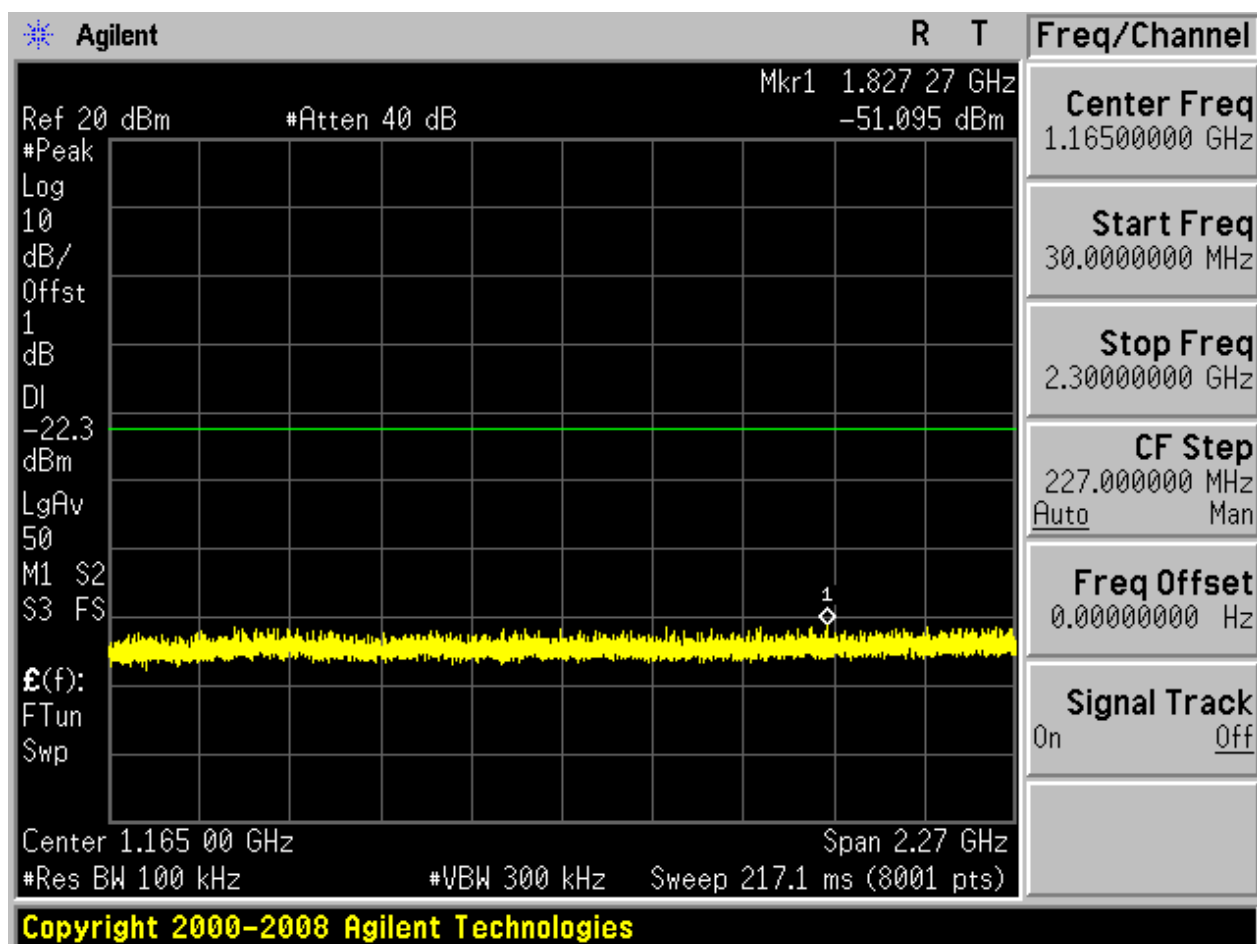


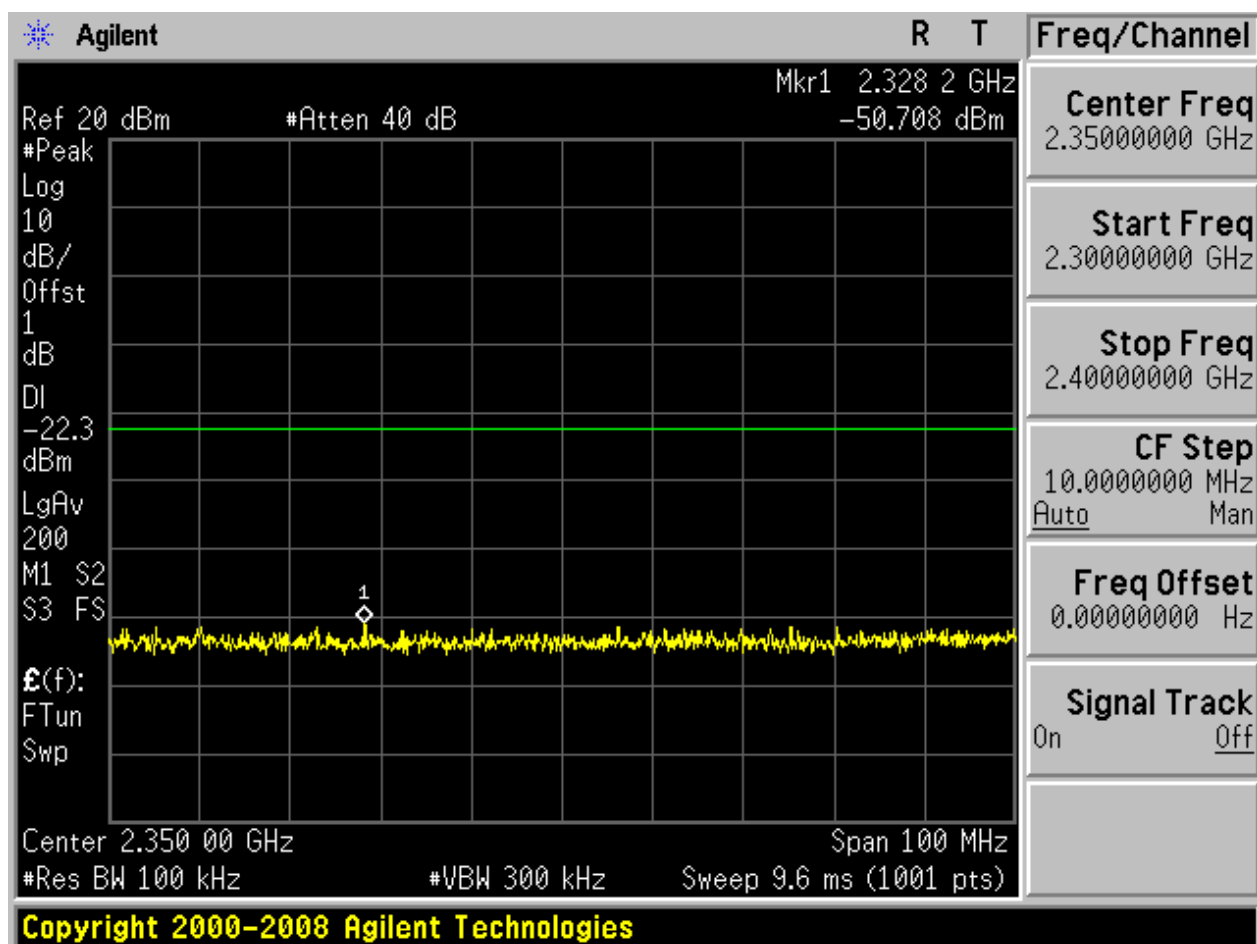


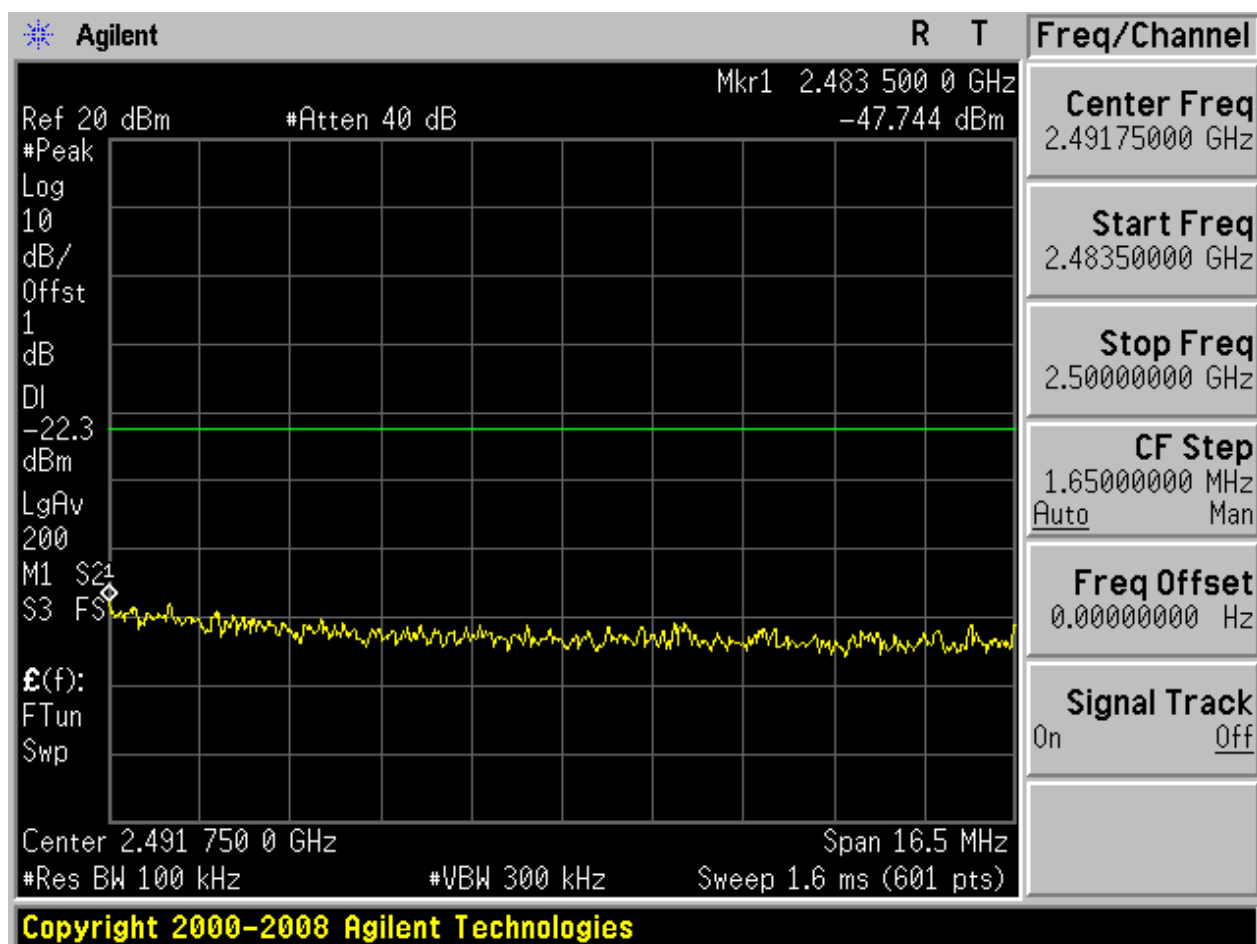
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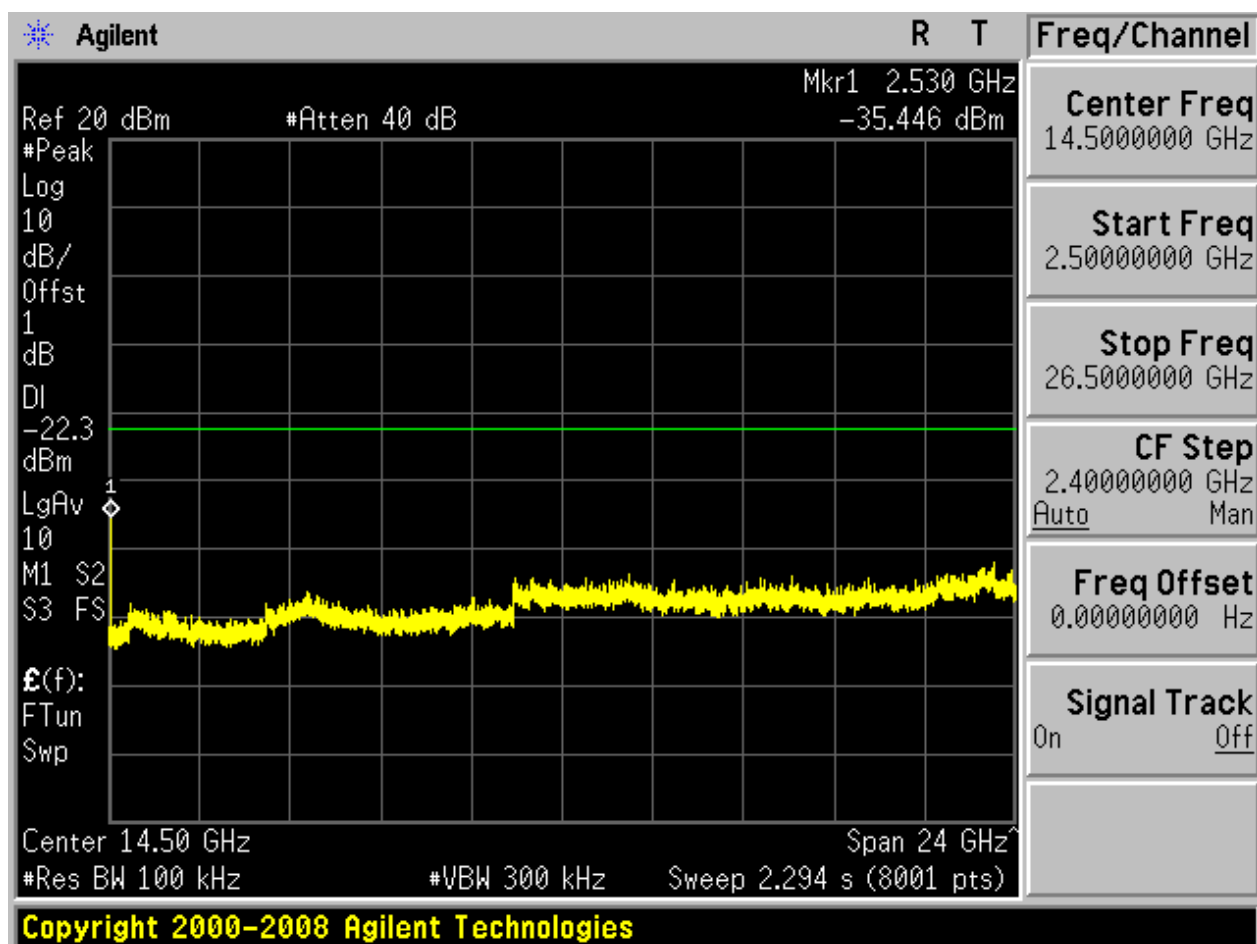






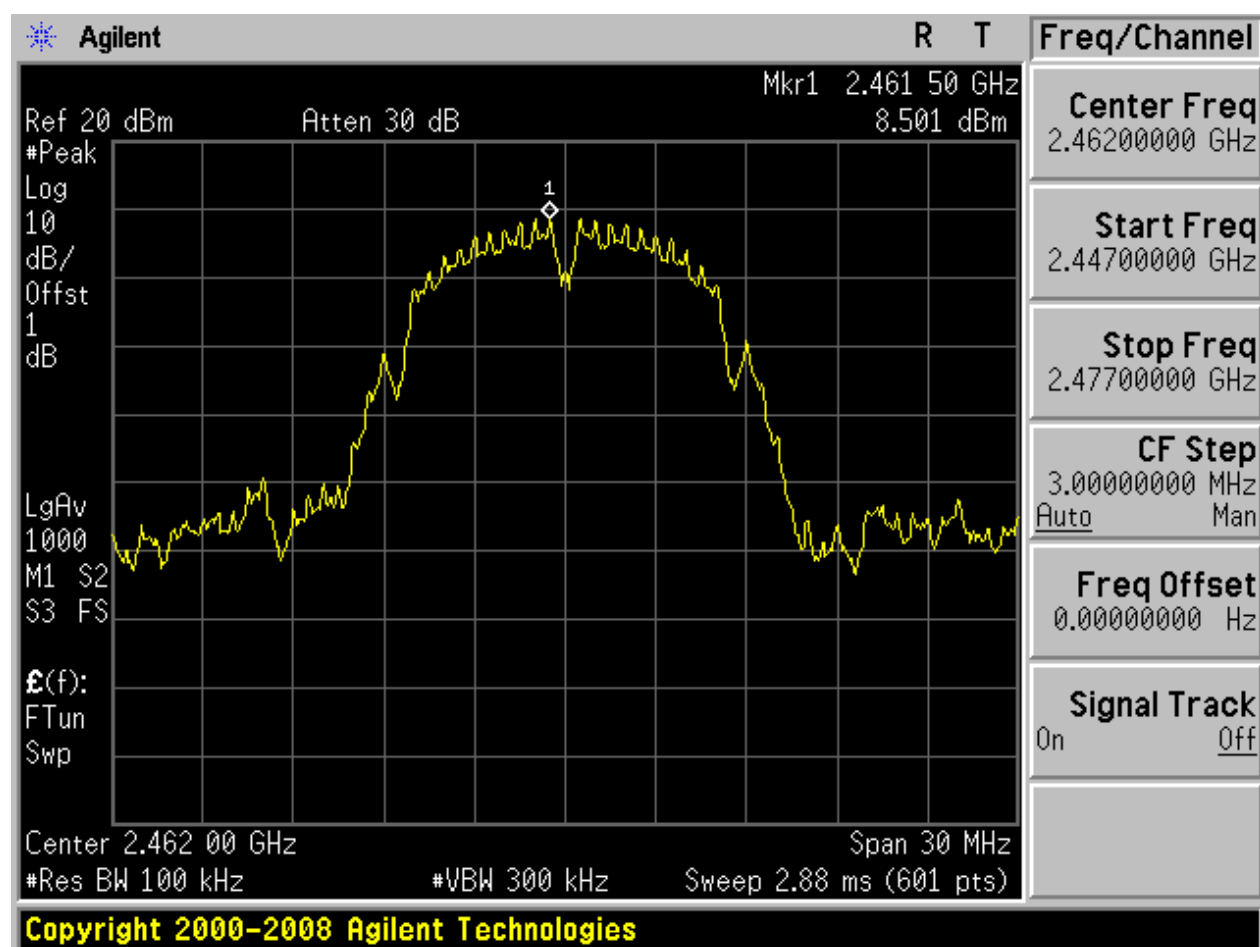






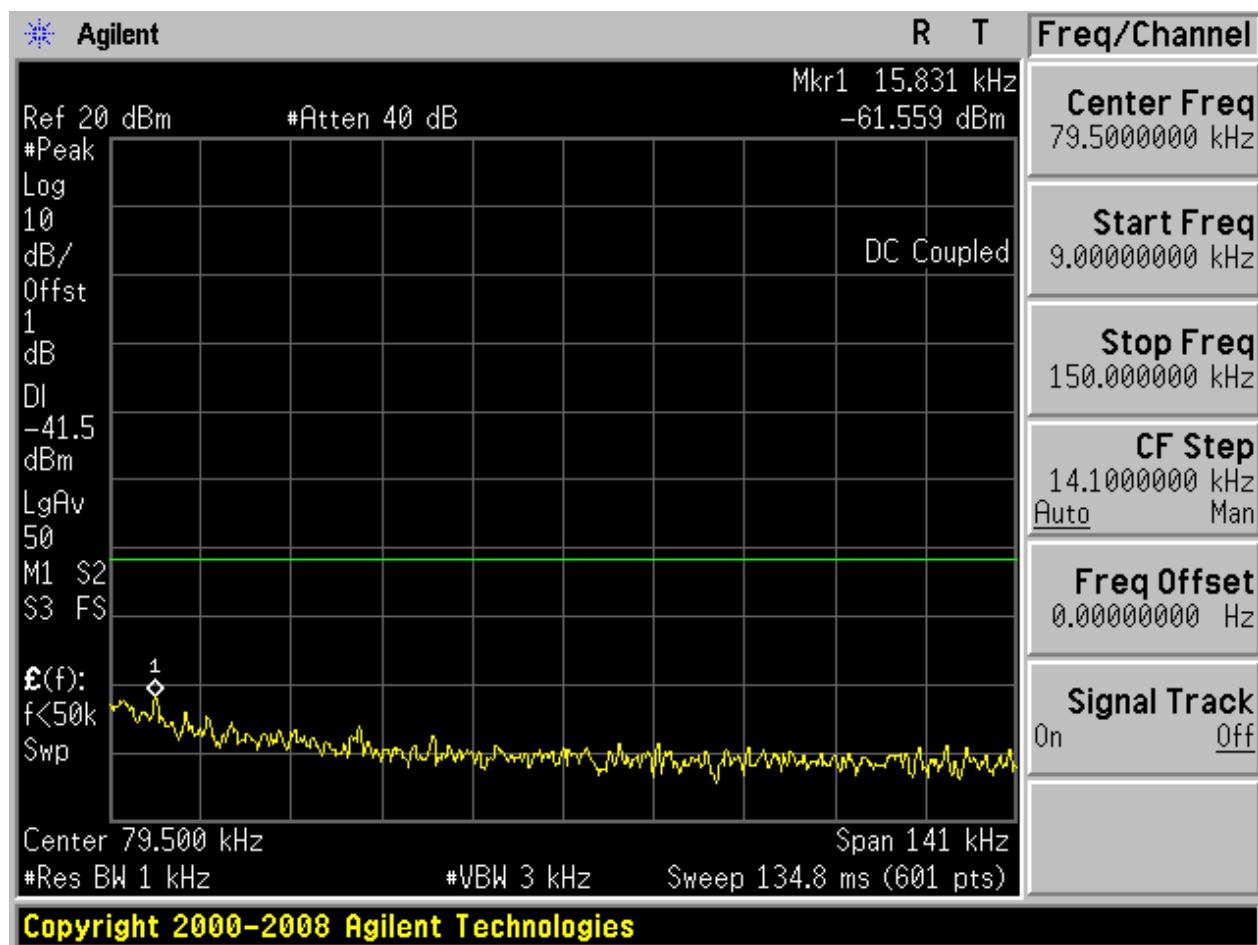
## 2.6 11B\_H@Ant 2

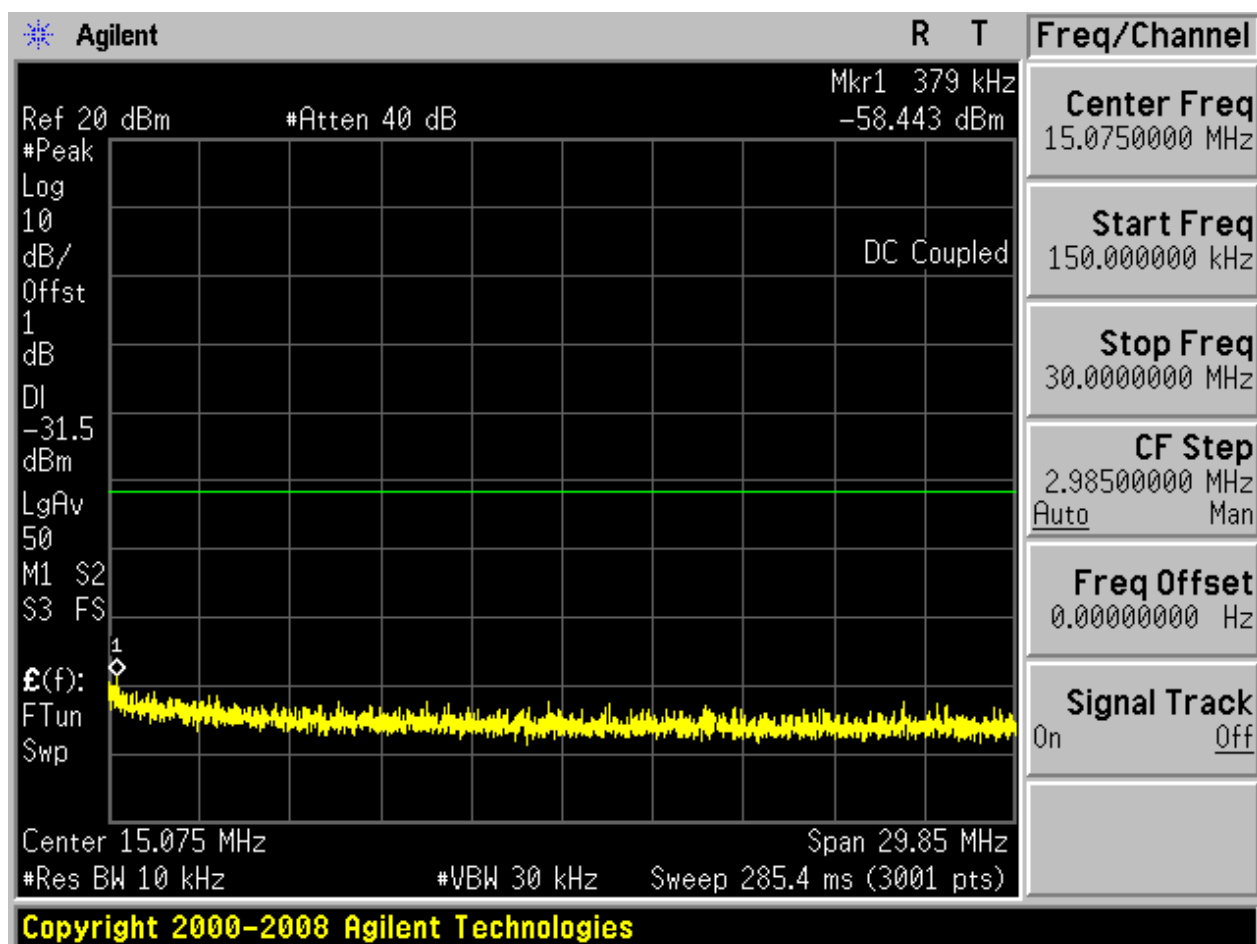
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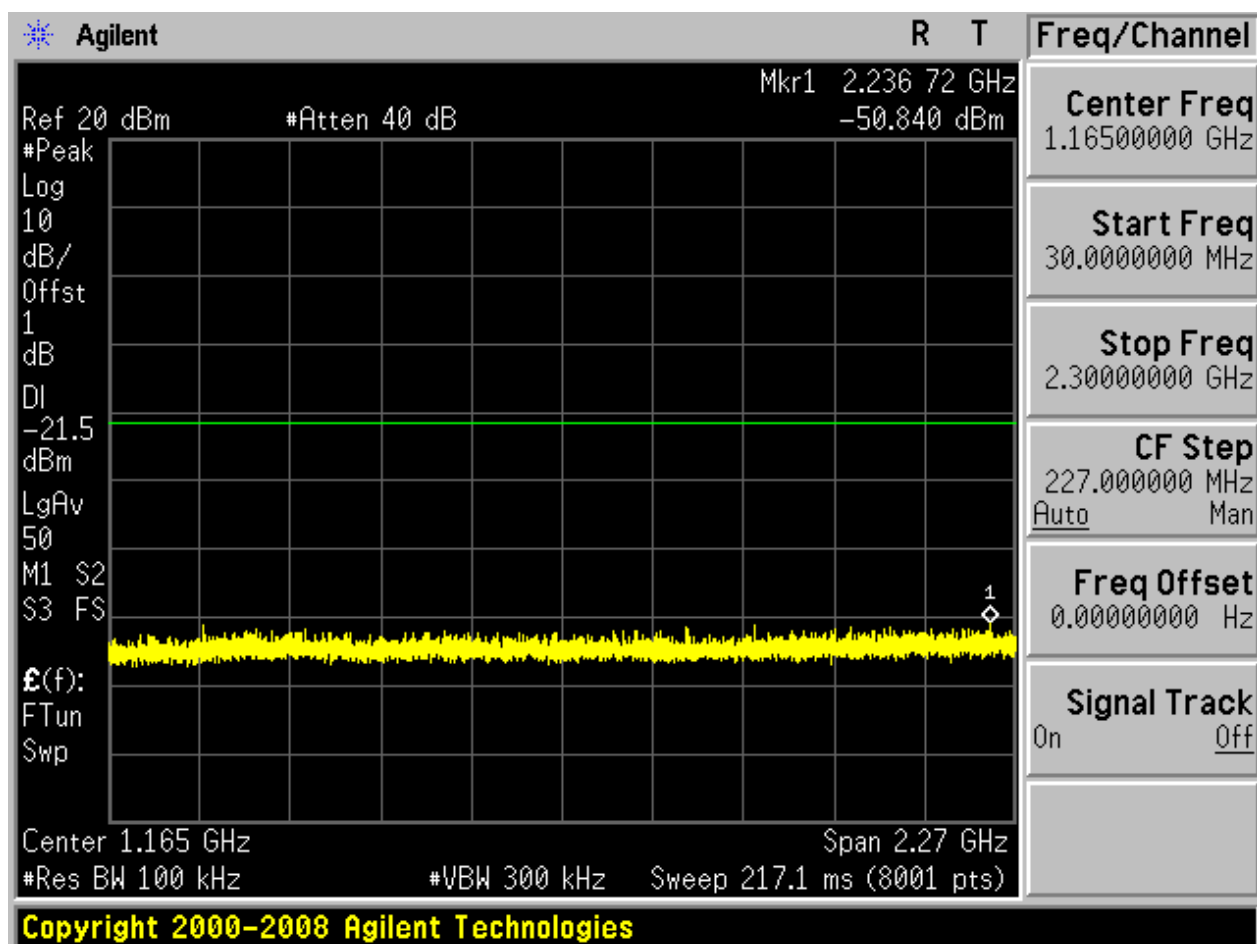


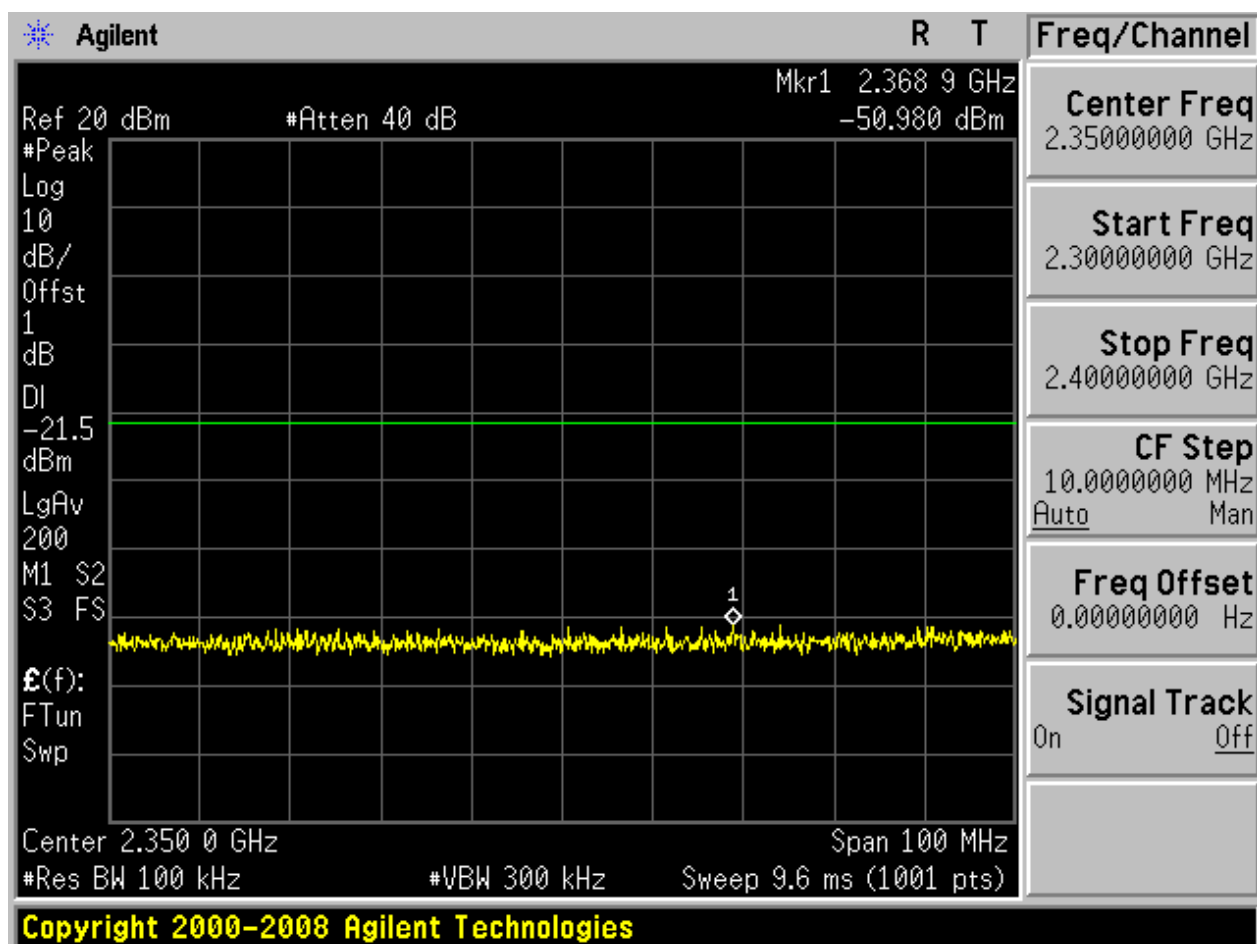


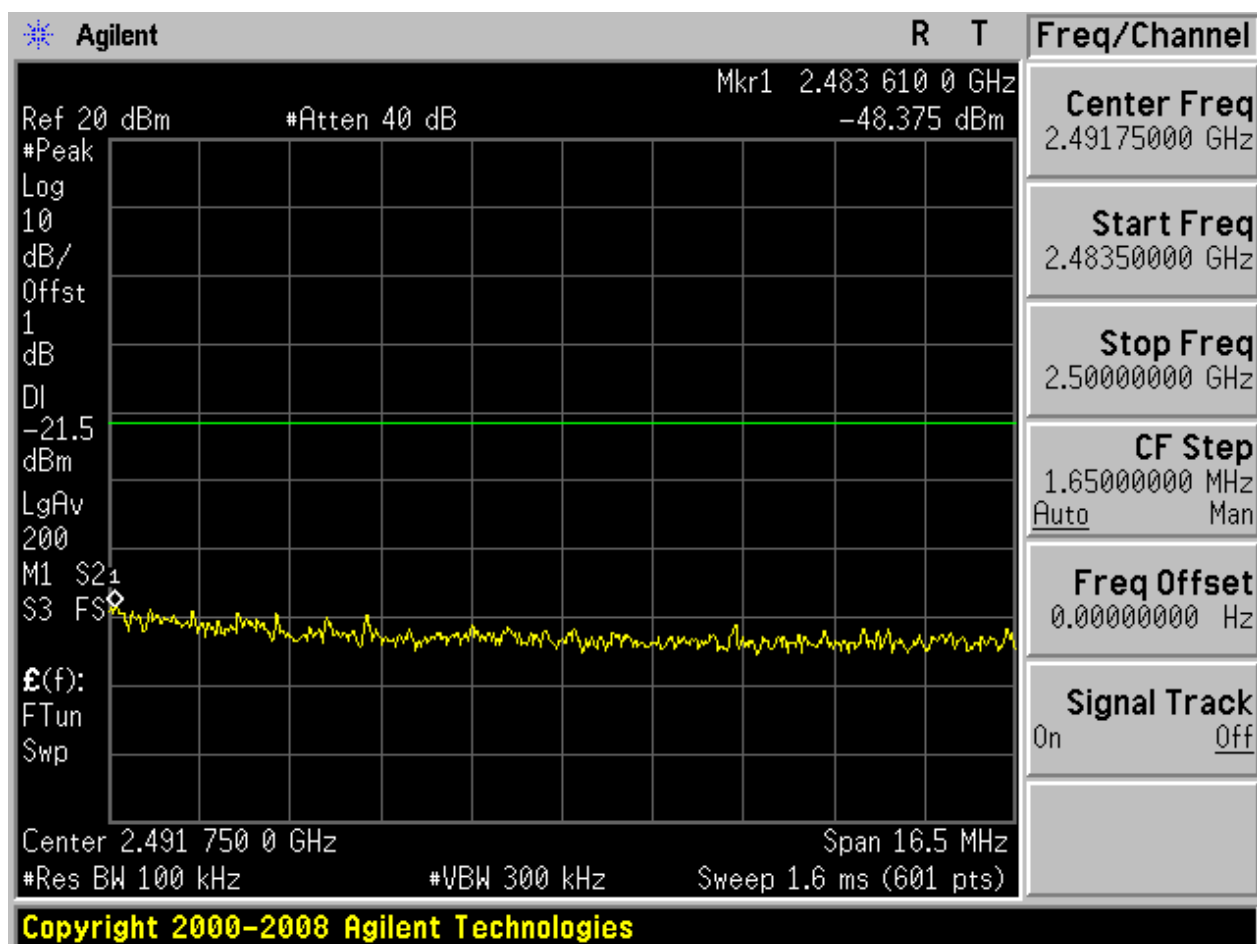
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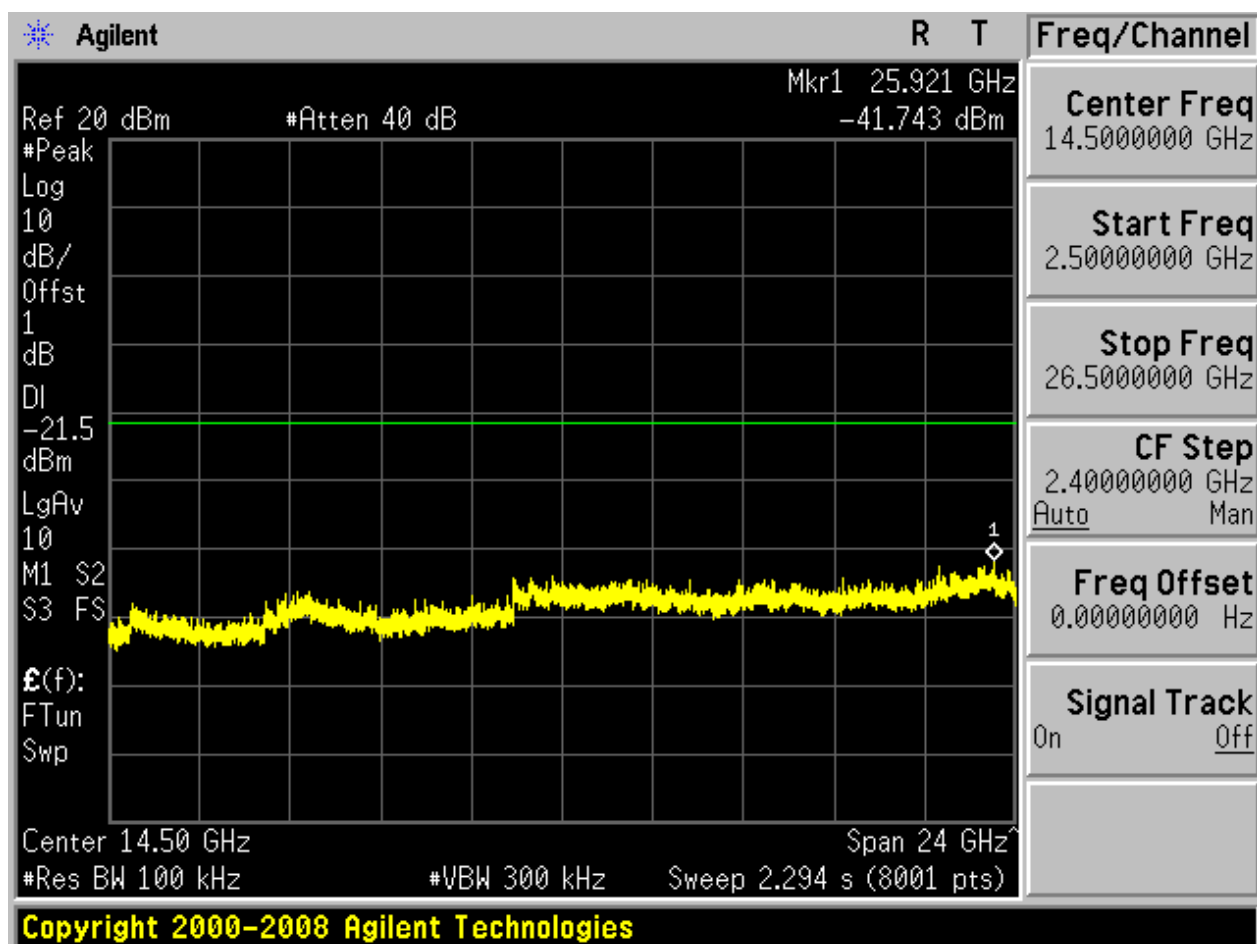








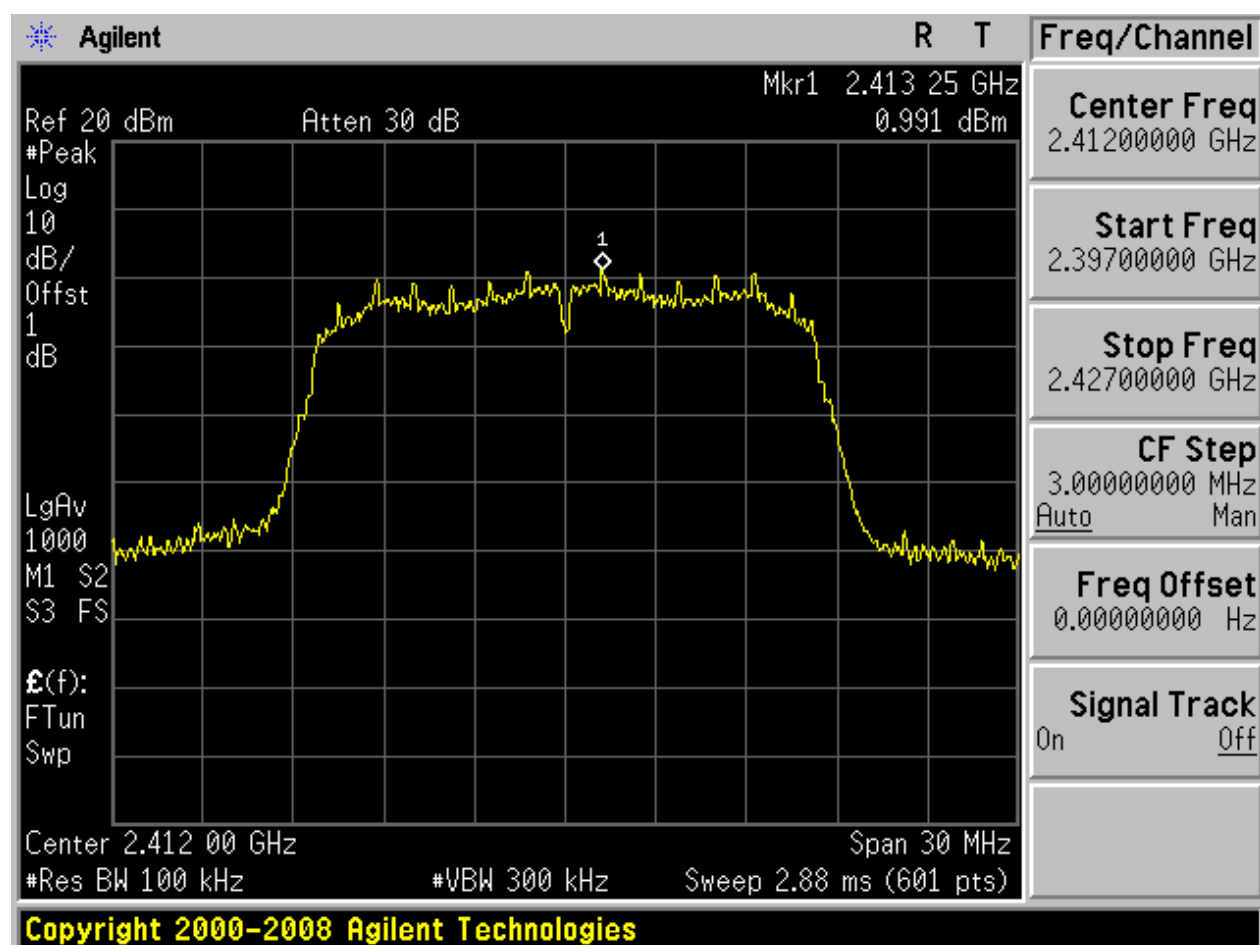




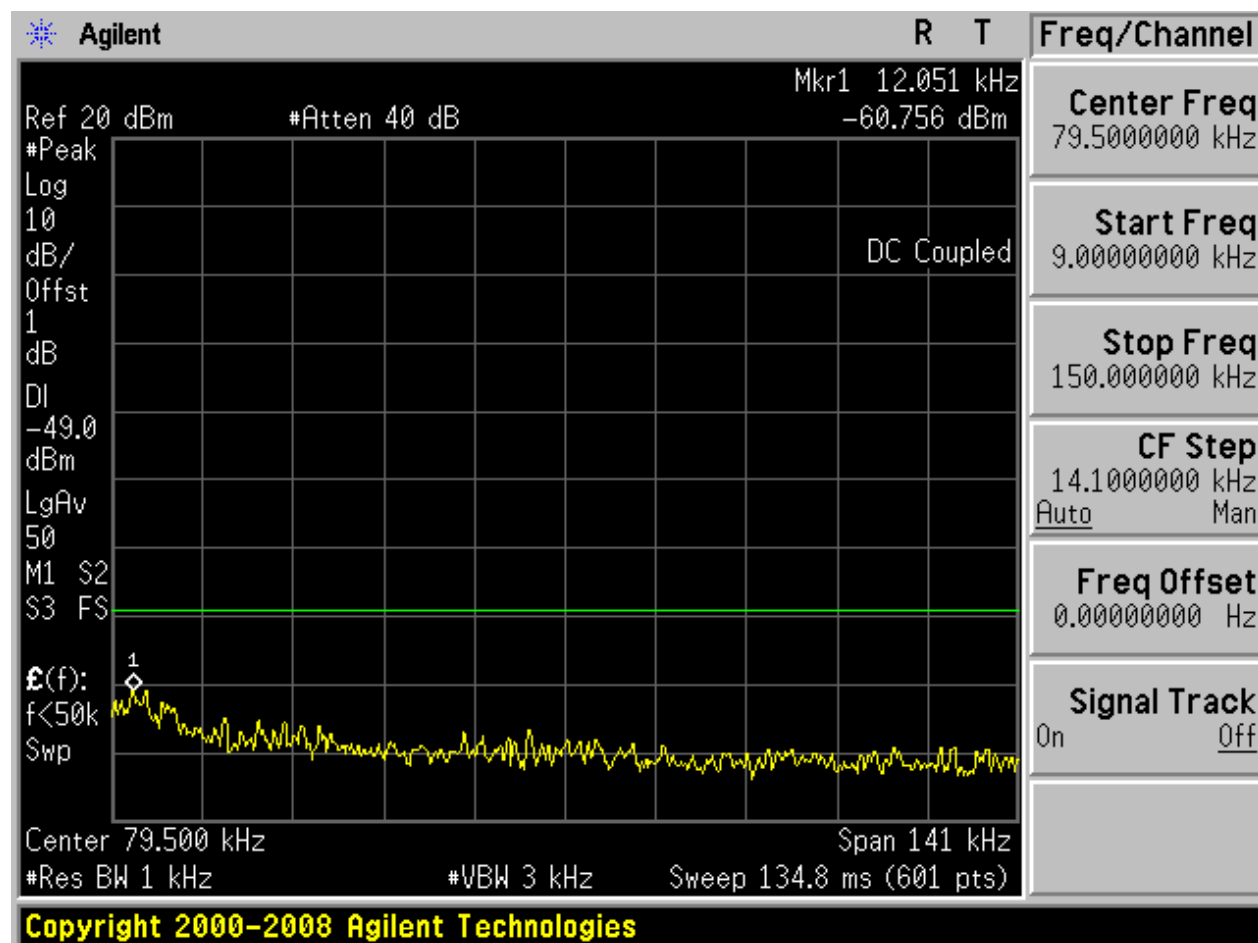


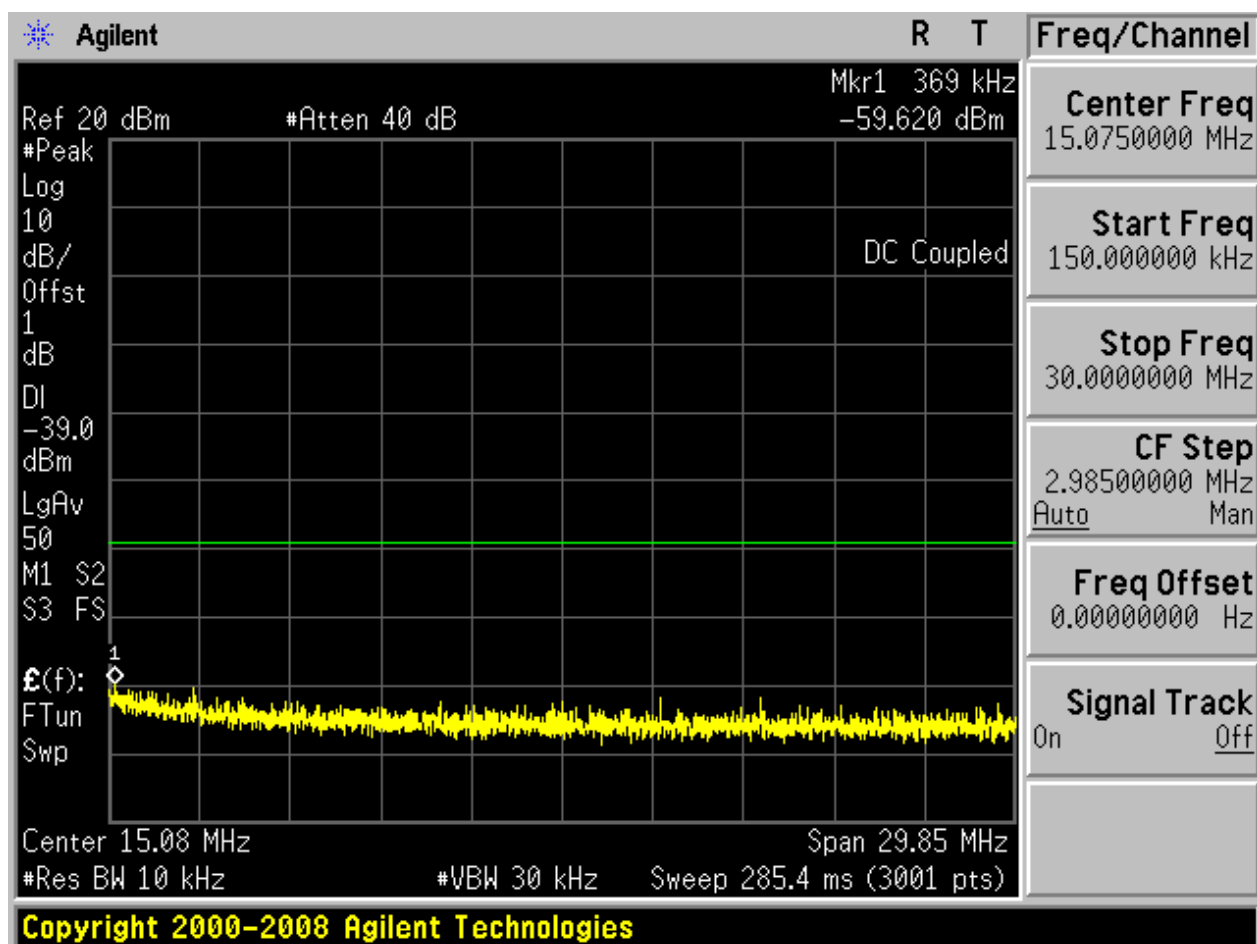
## 2.7 11G\_L@Ant 1

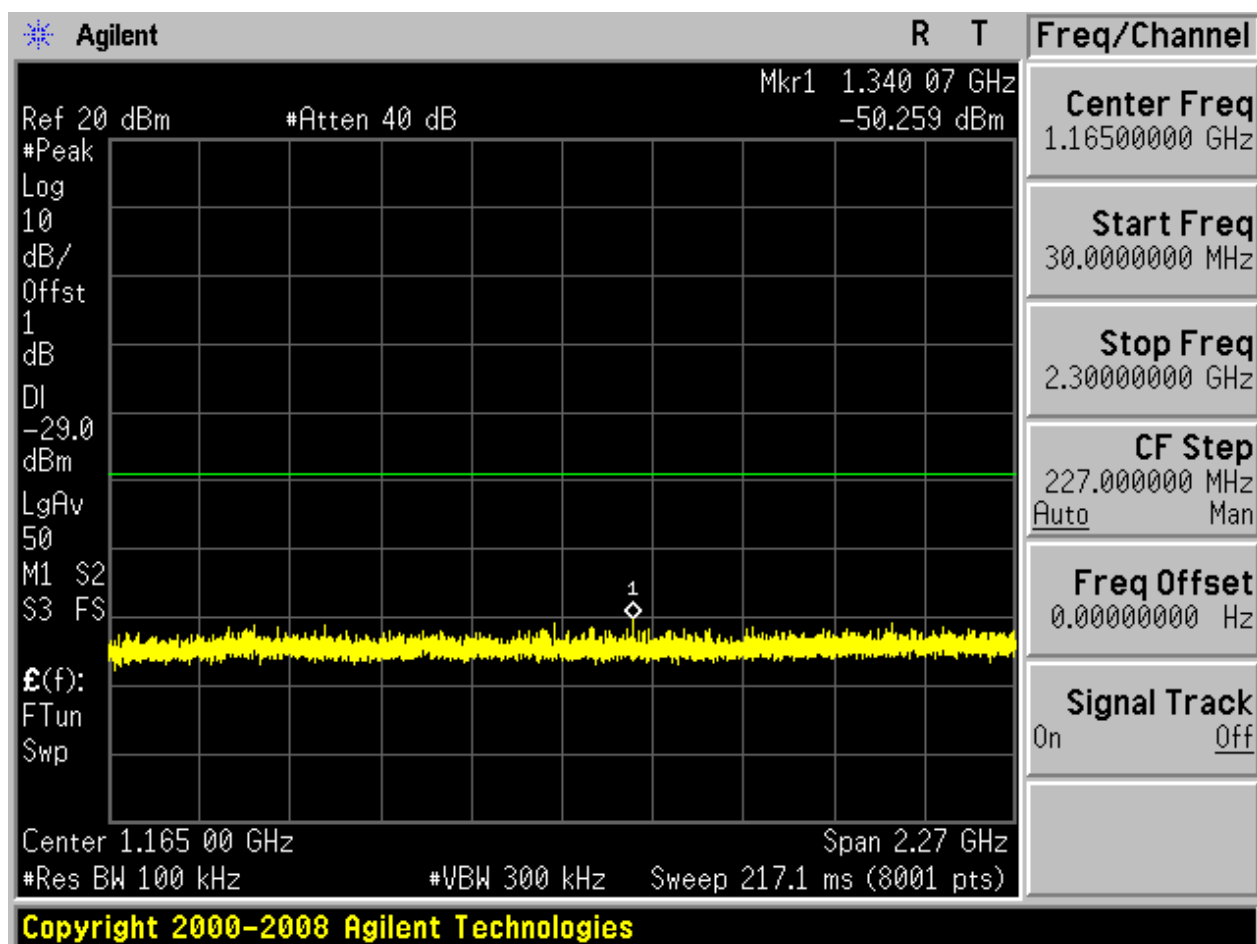
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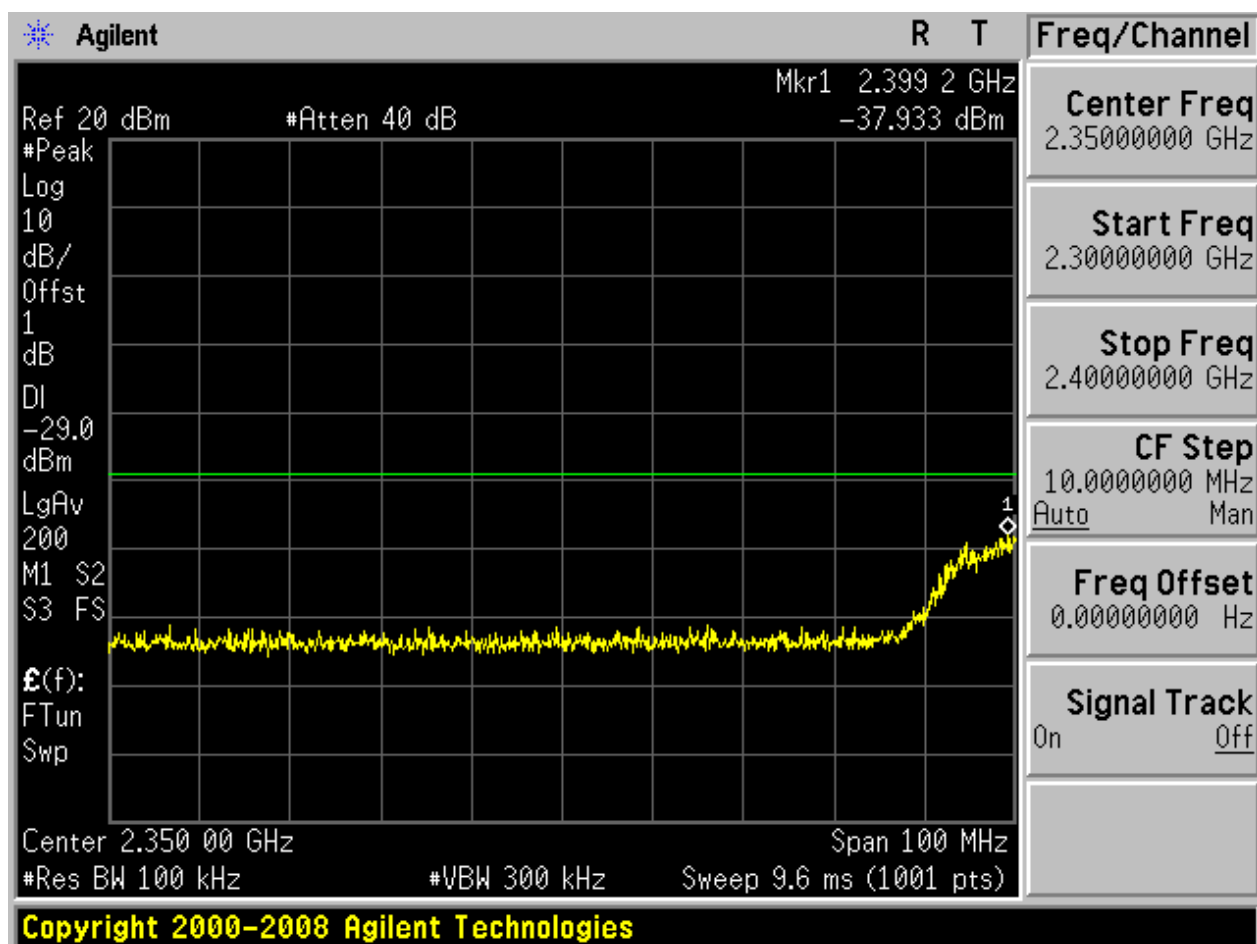


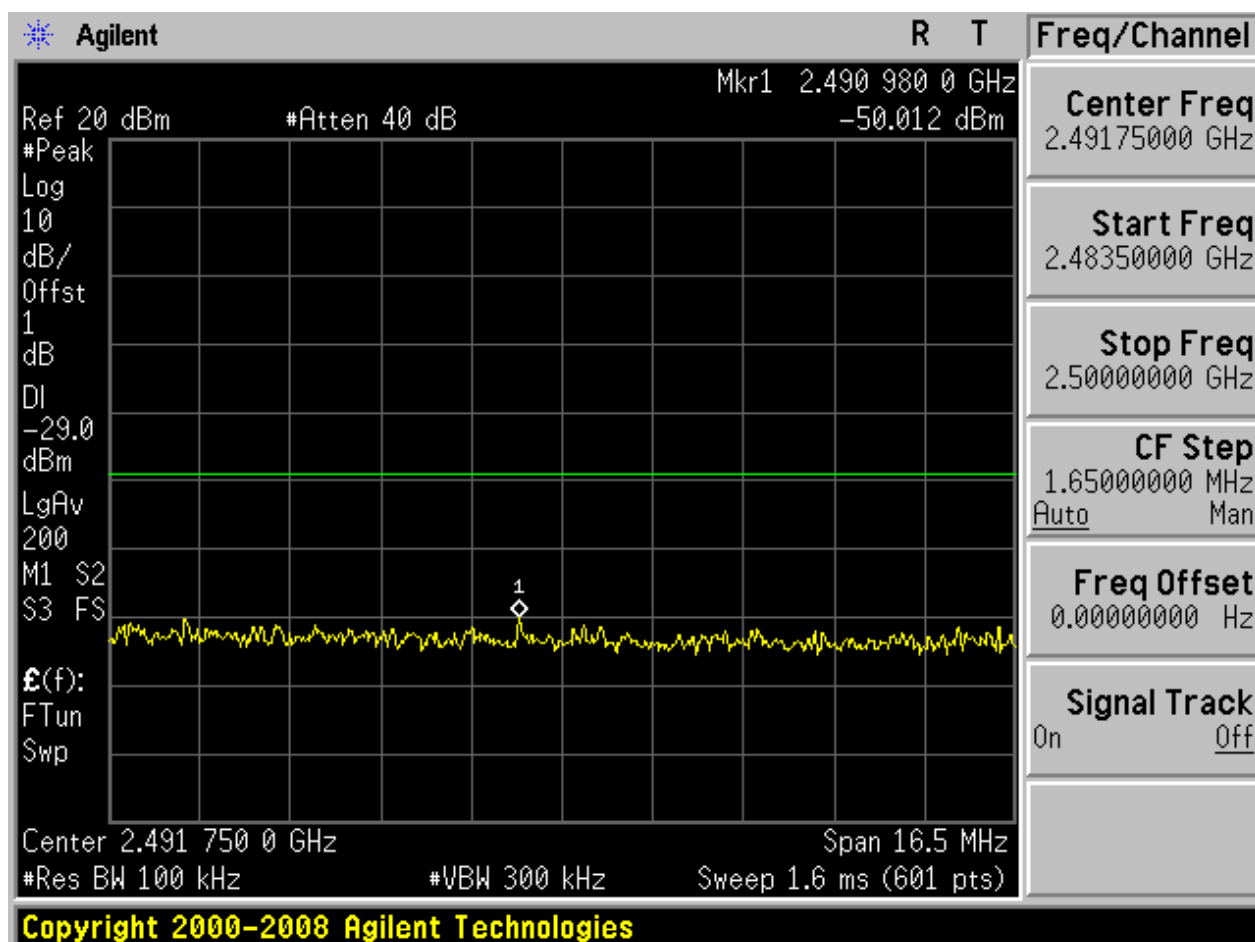
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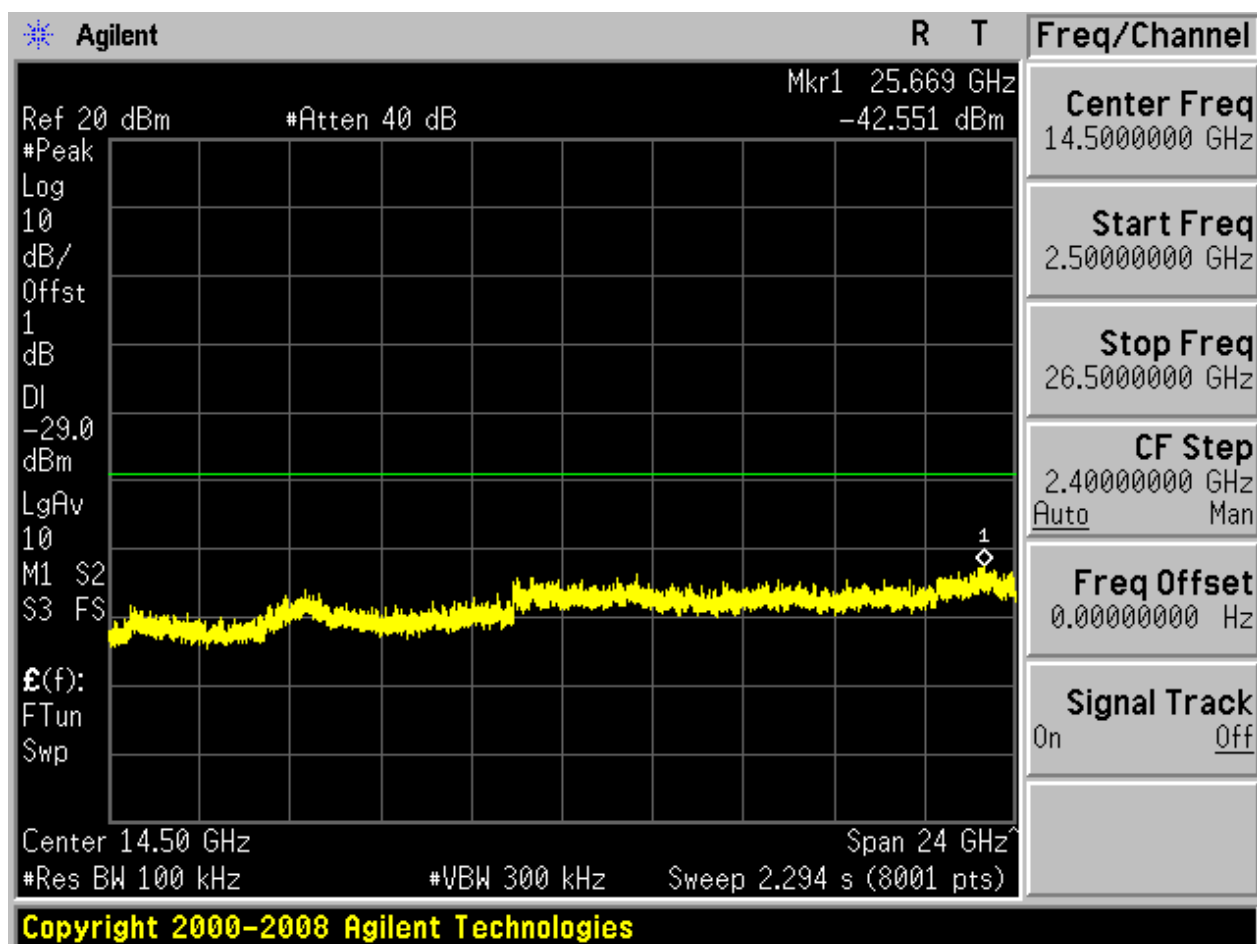








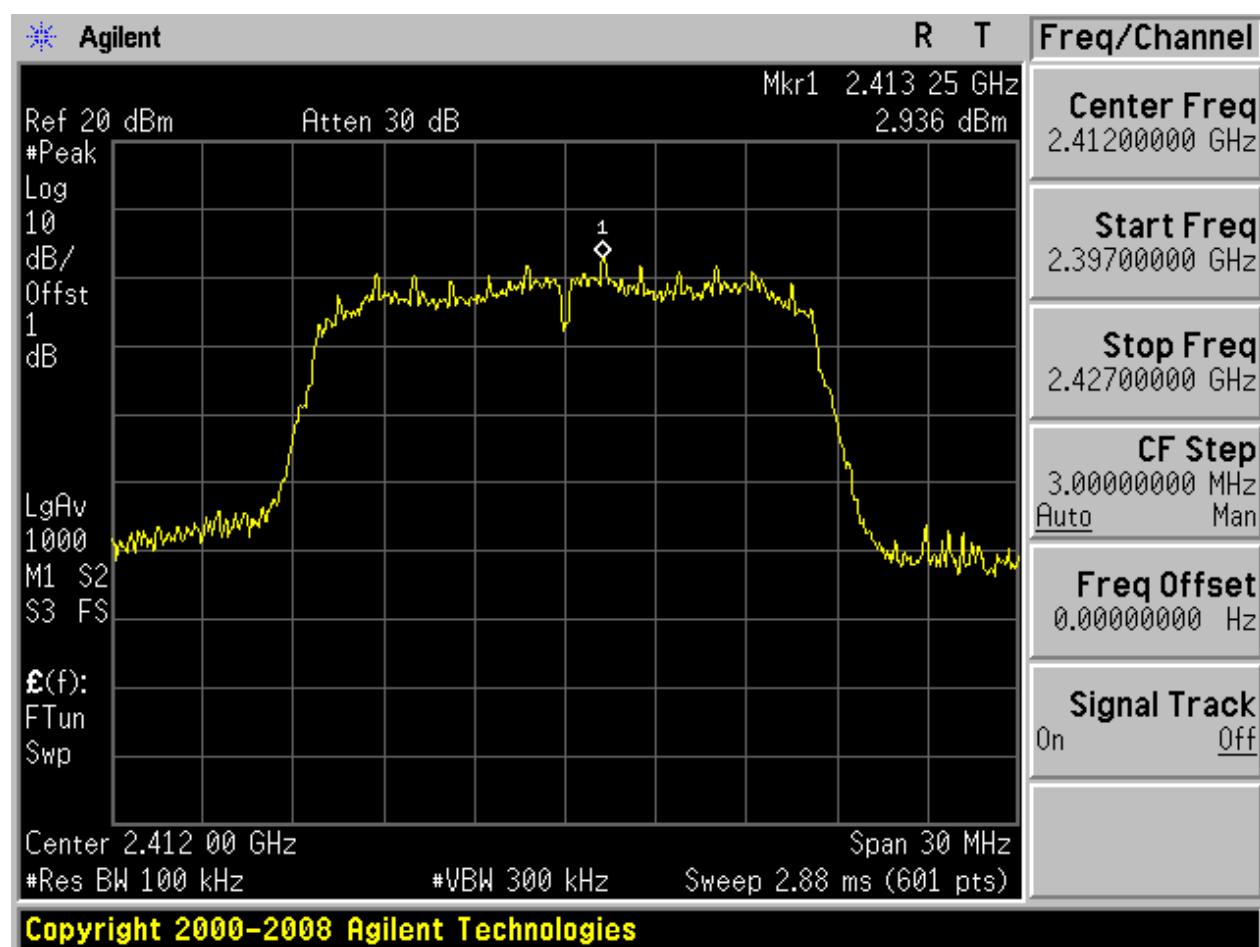




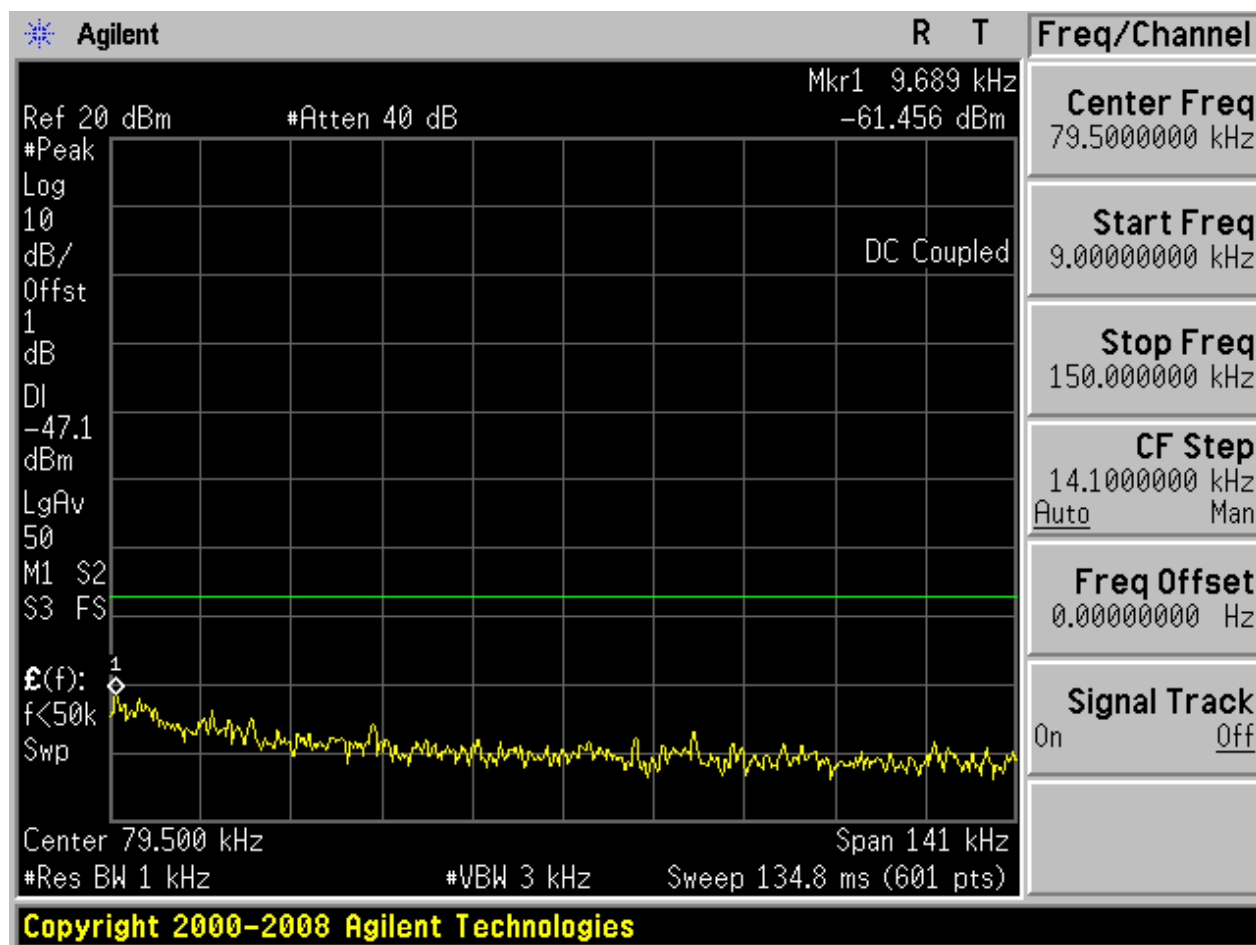


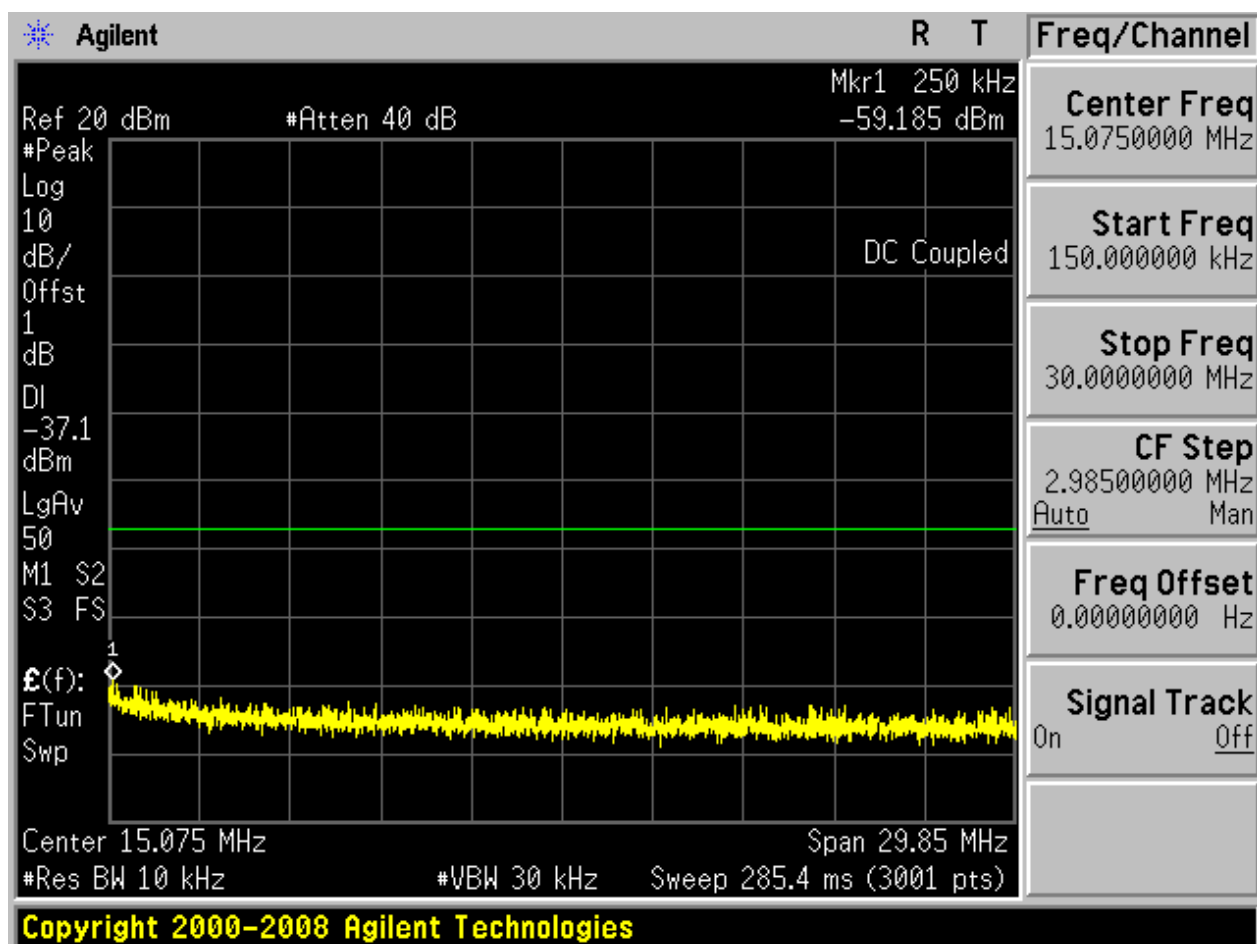
## 2.8 11G\_L@Ant 2

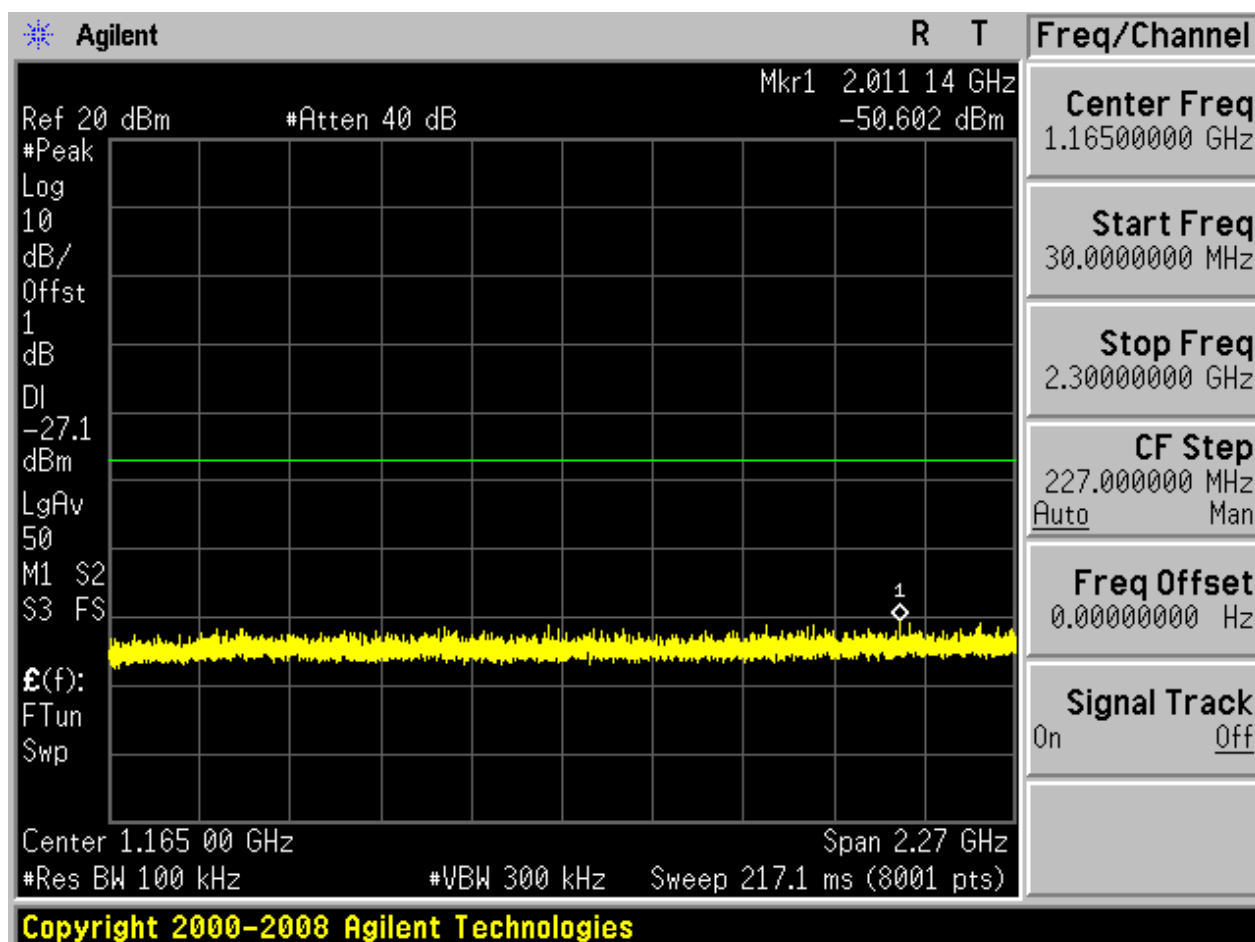
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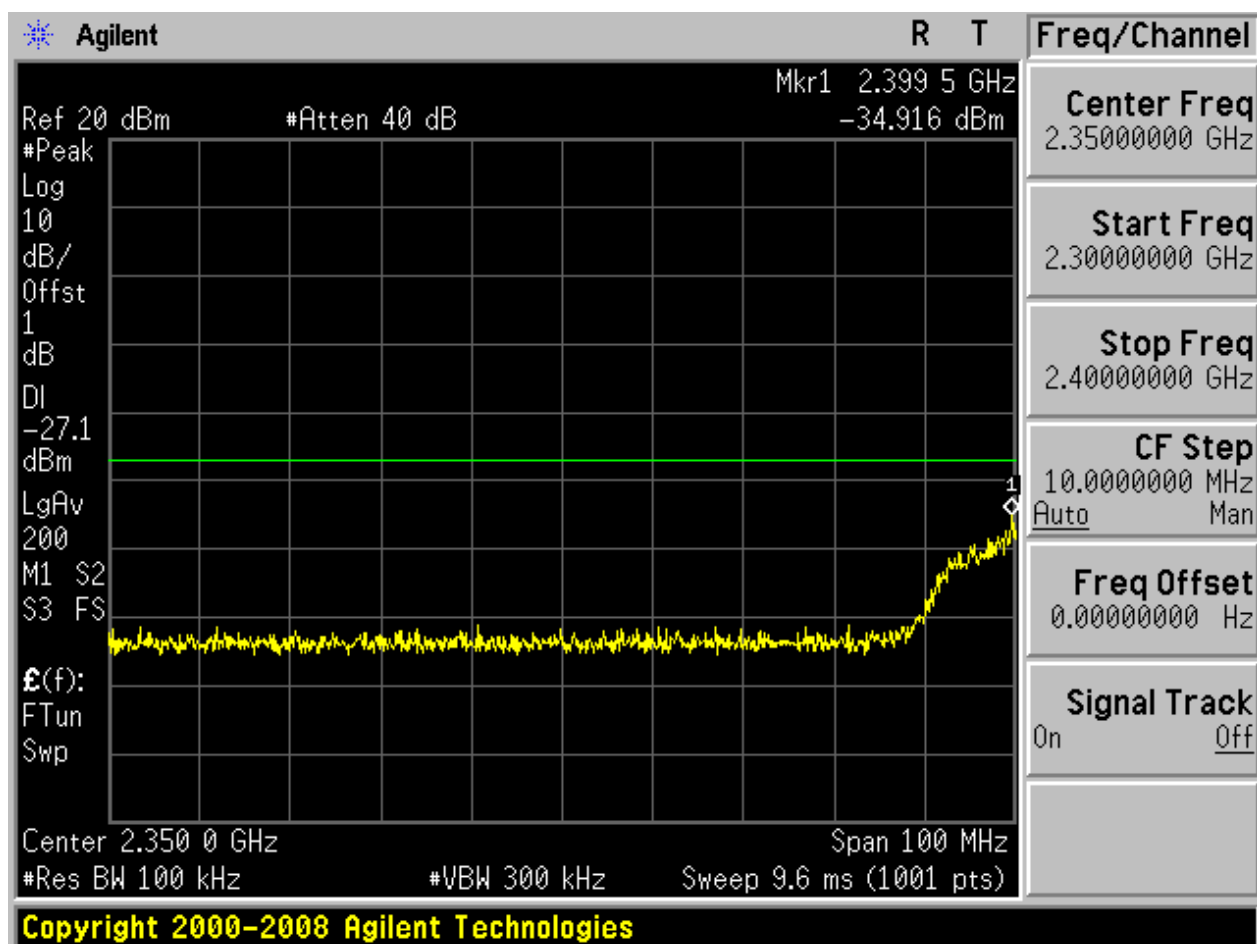


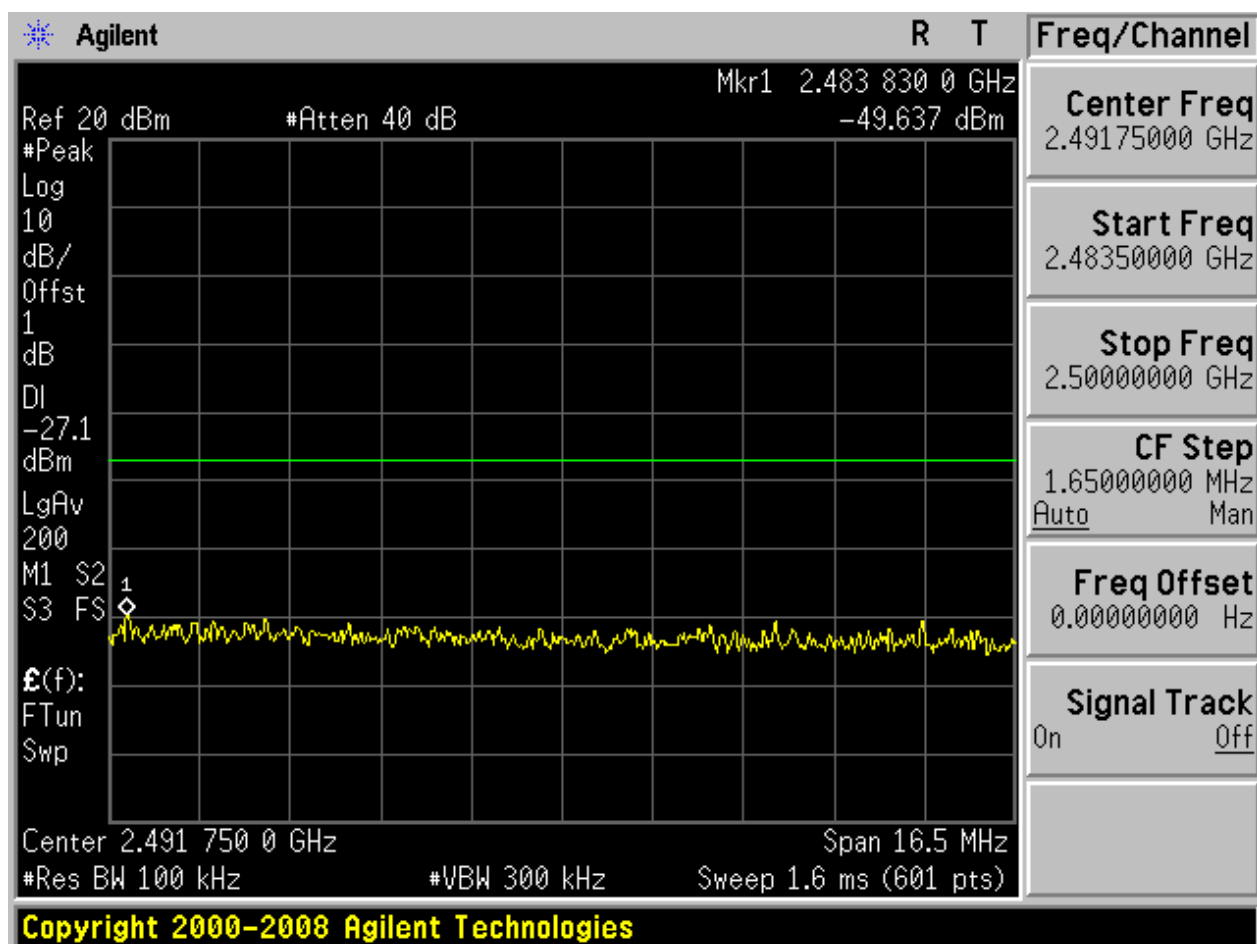
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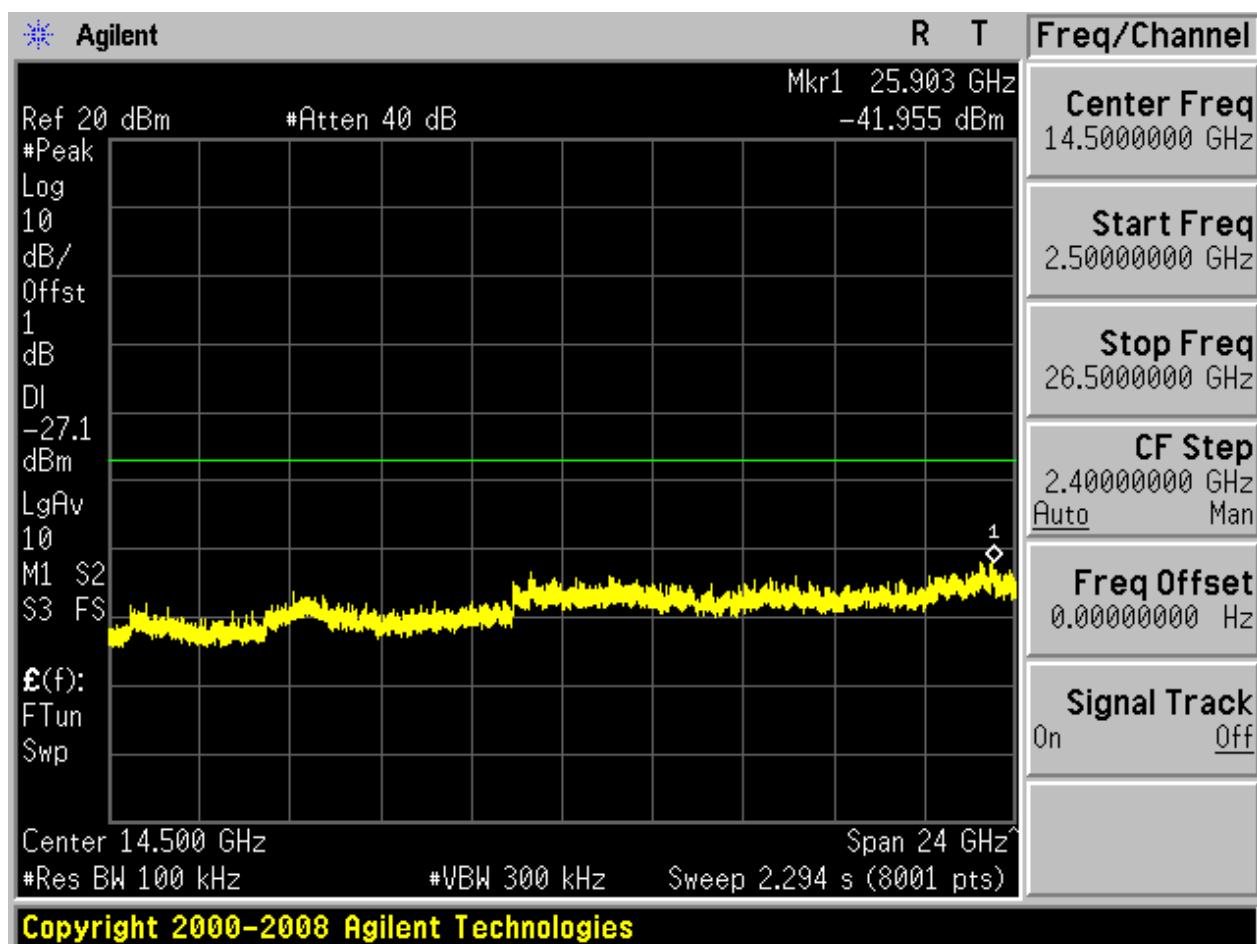








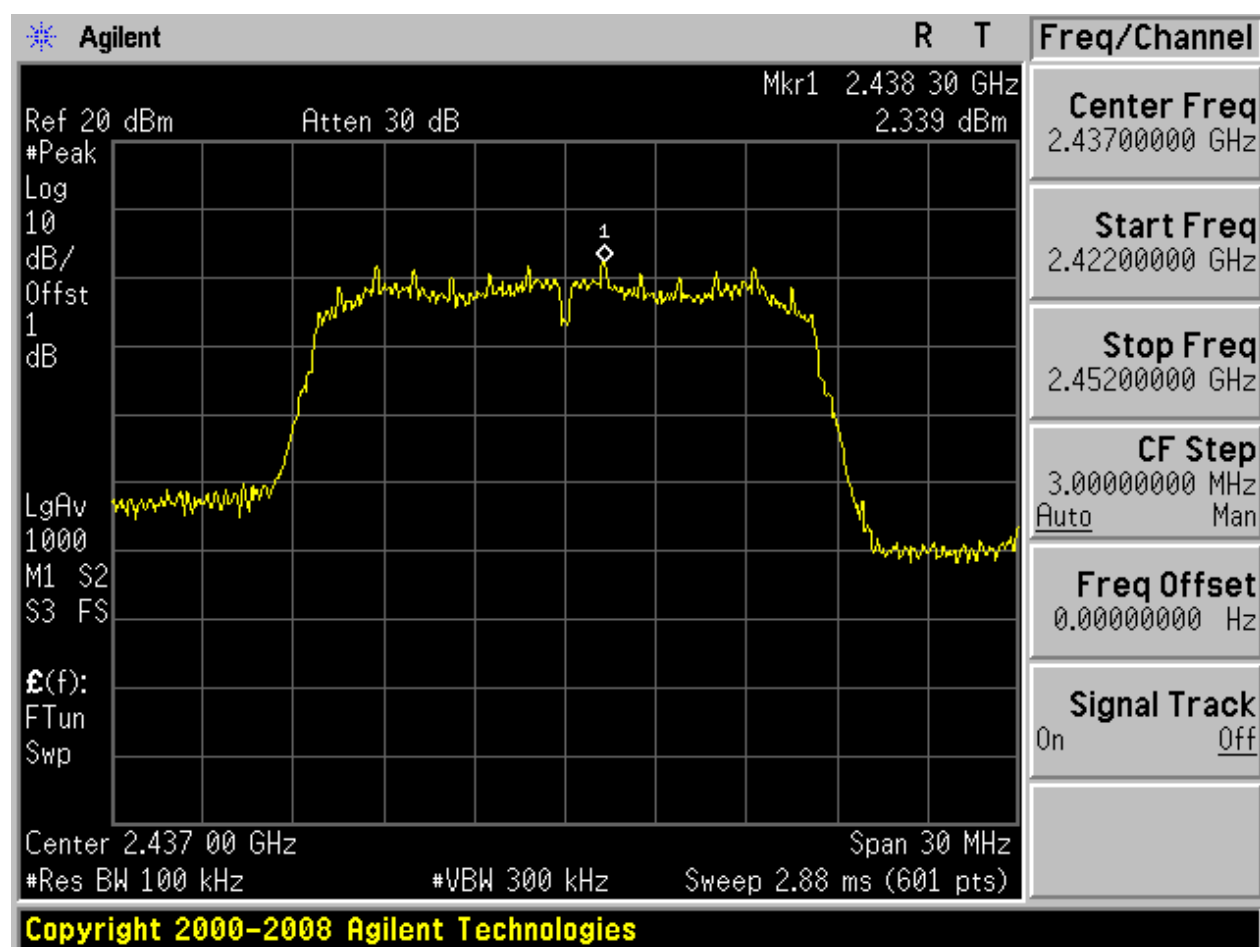






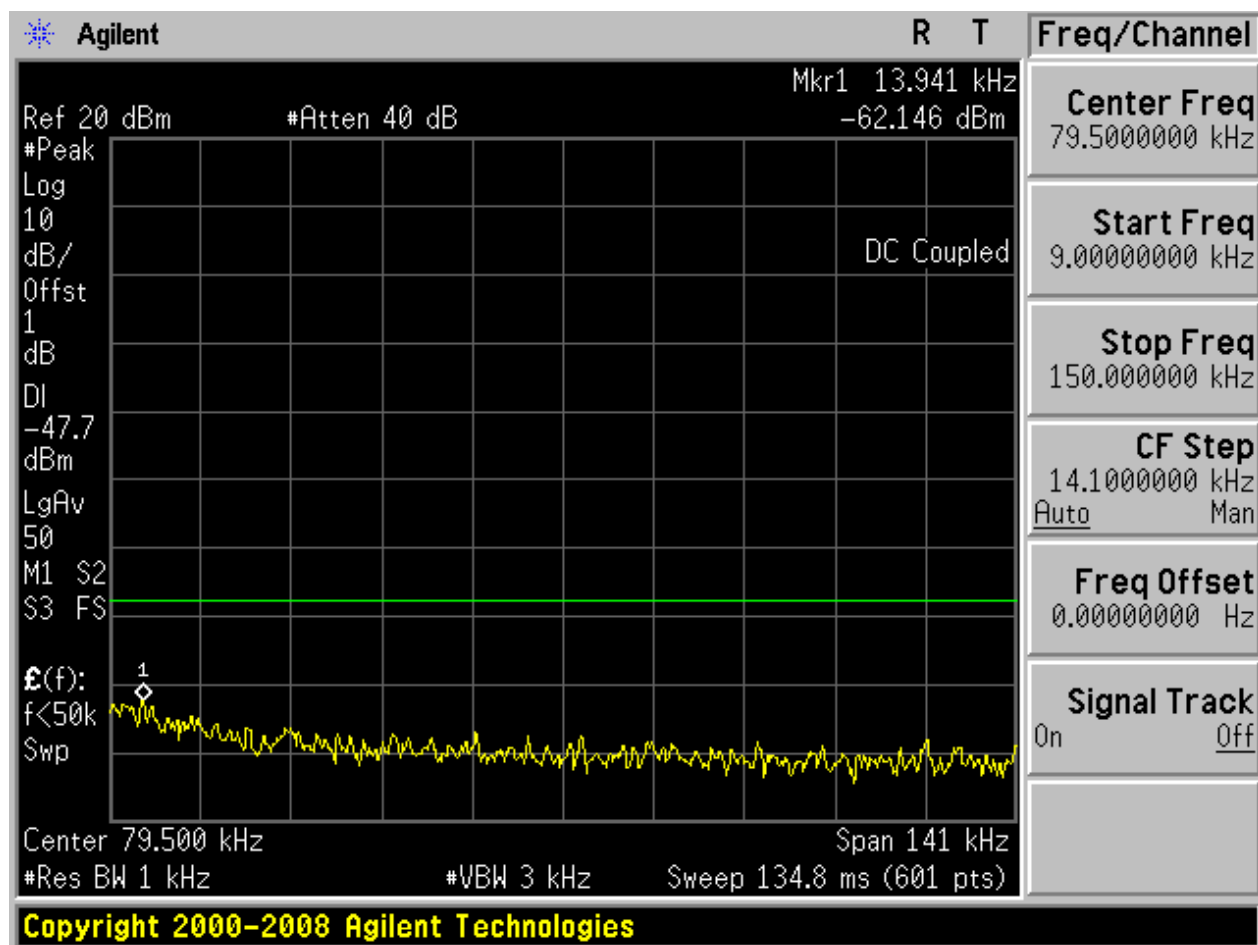
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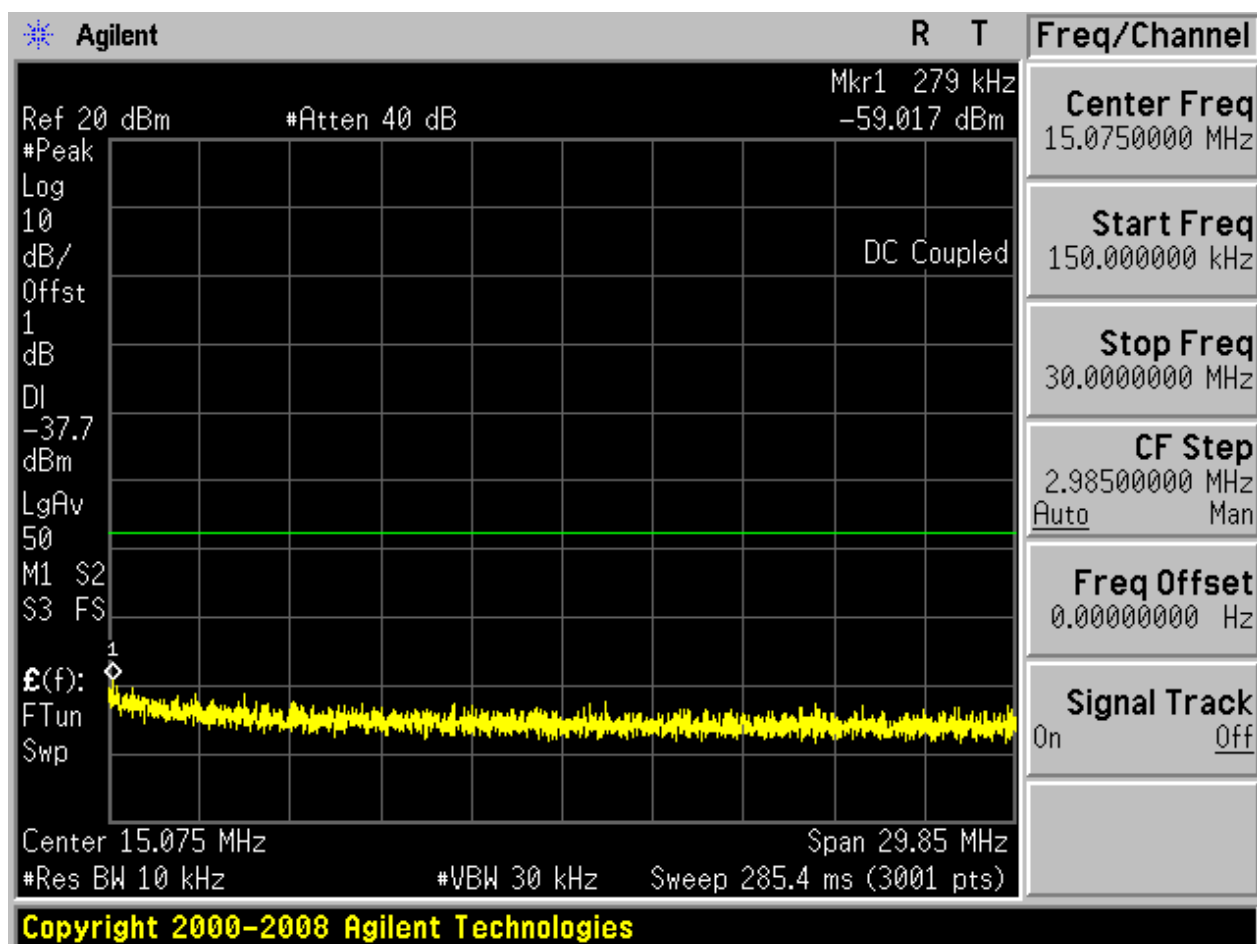
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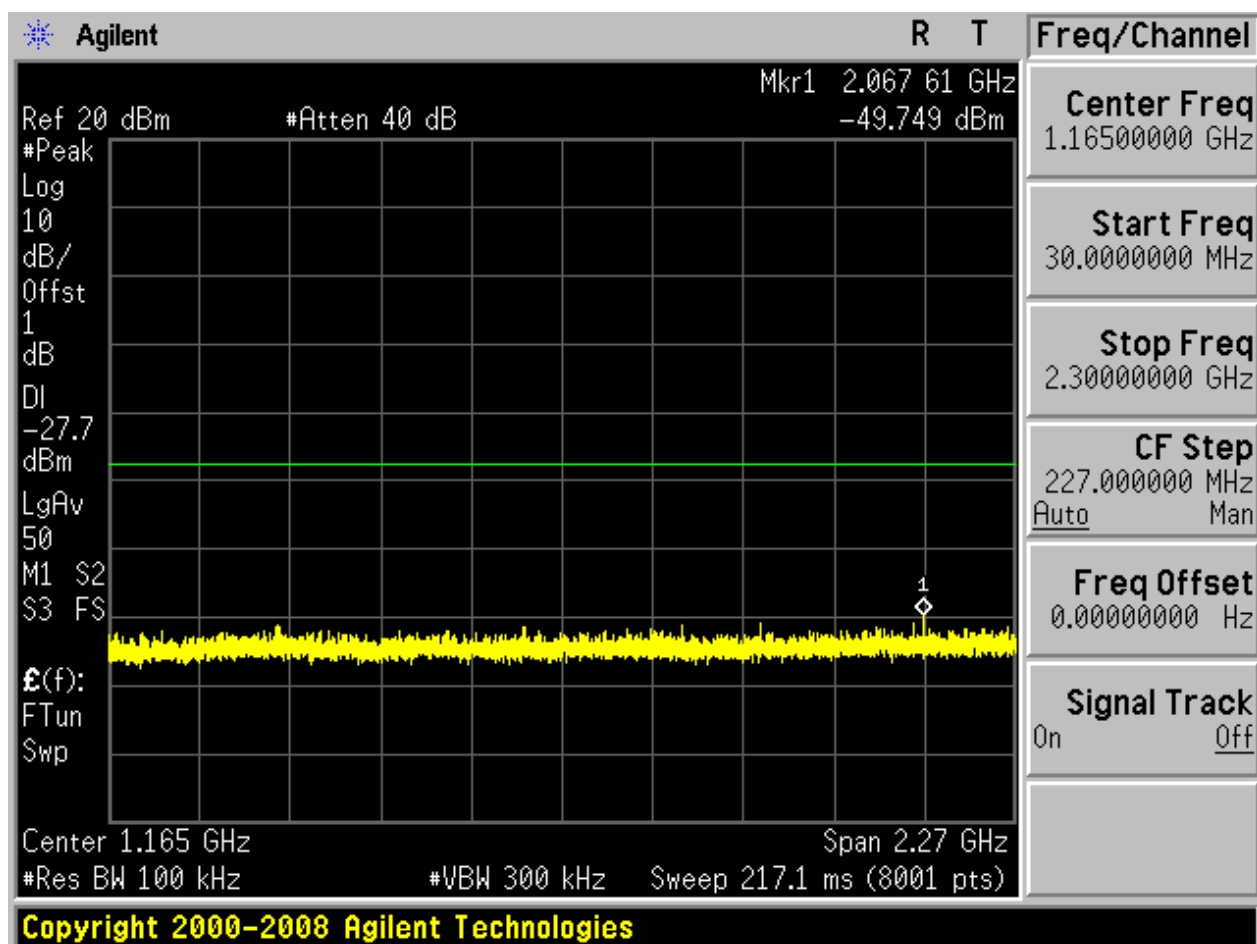


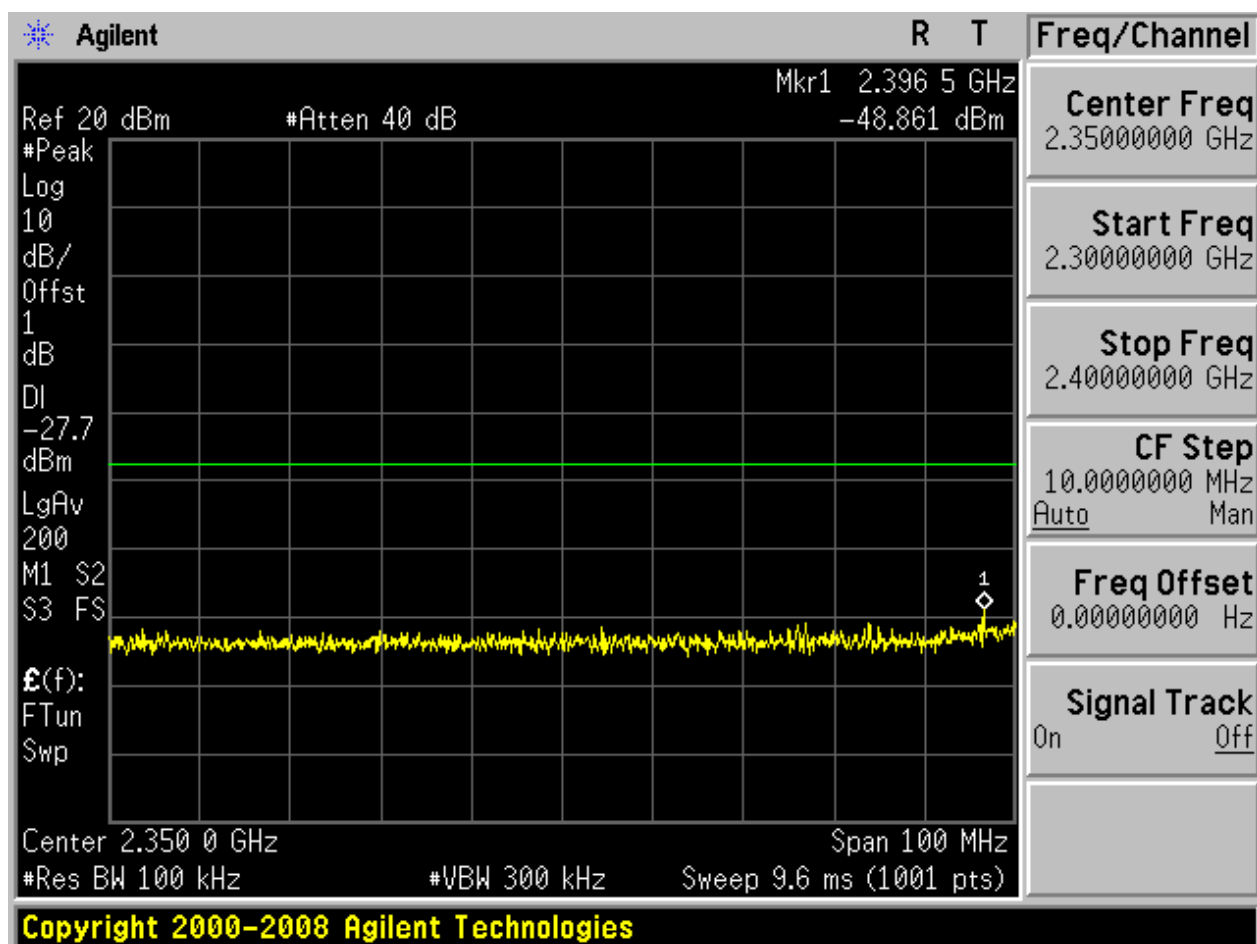


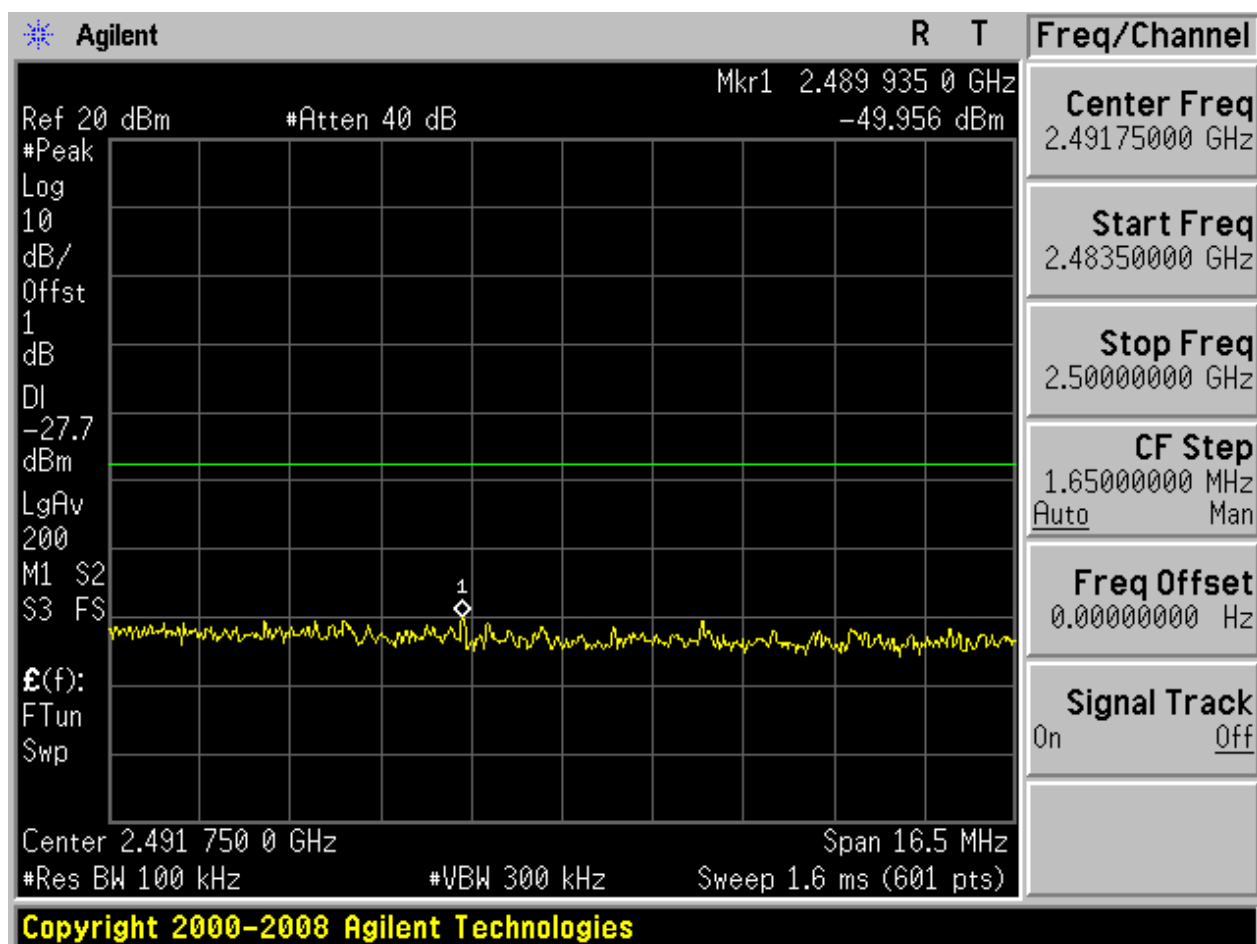
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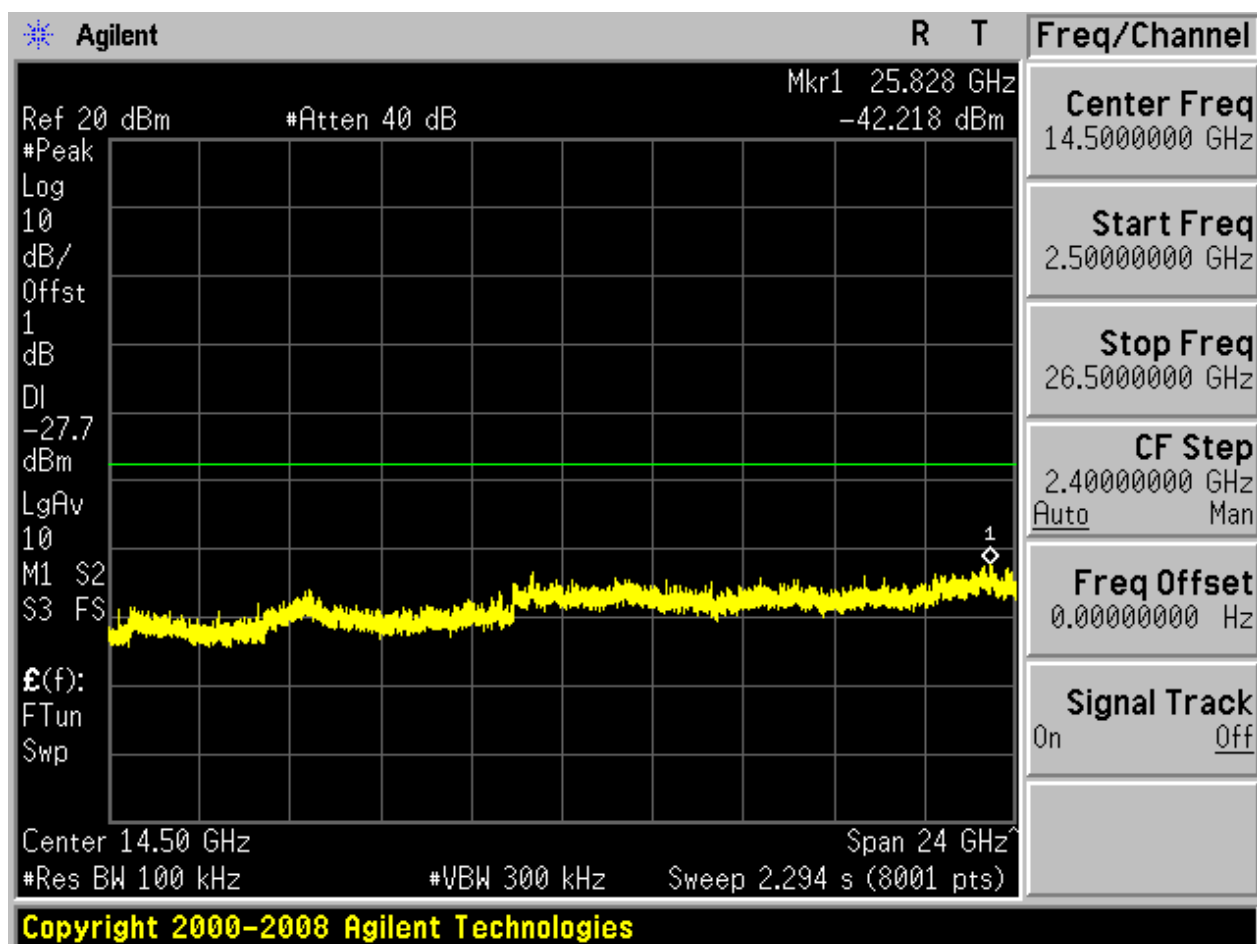






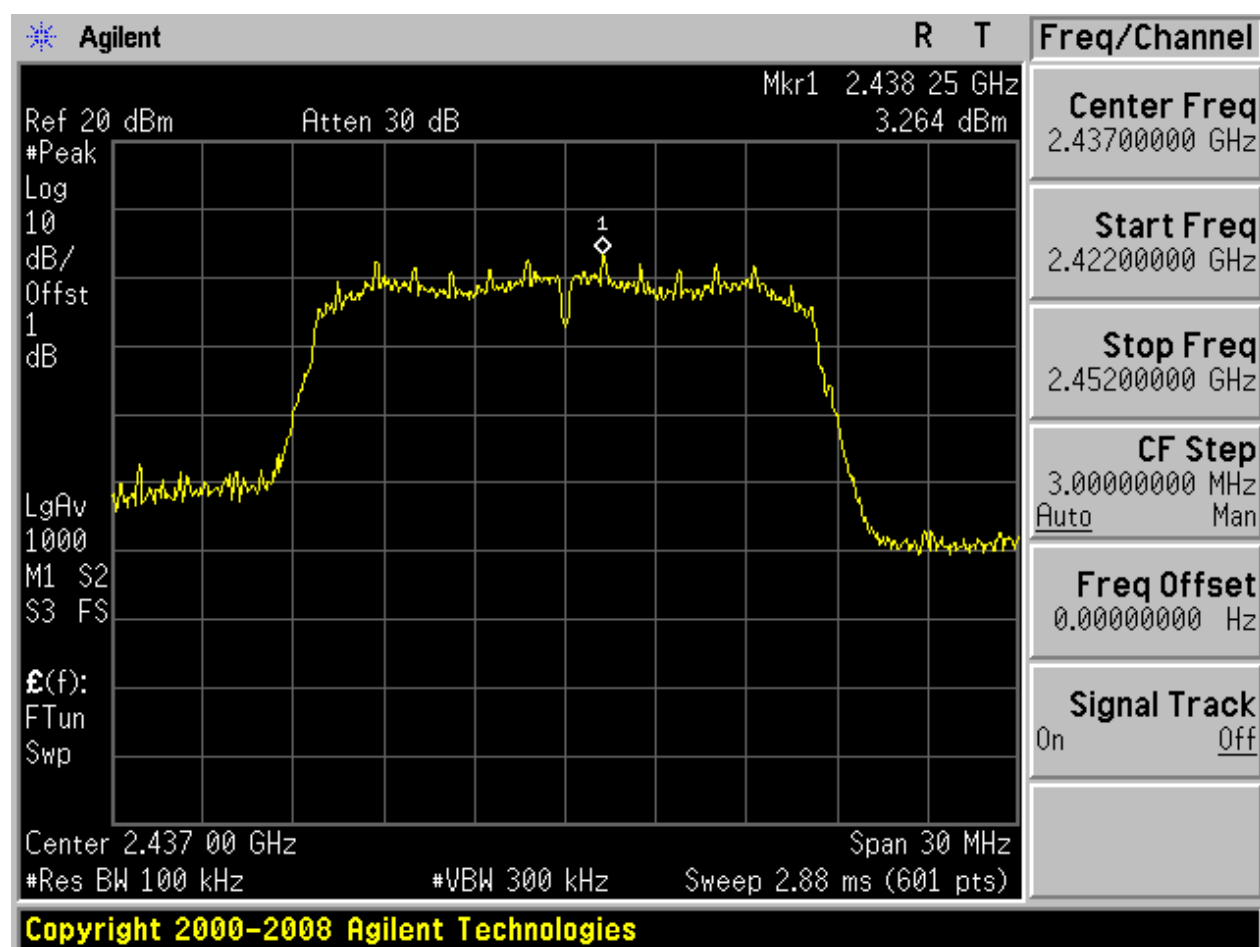






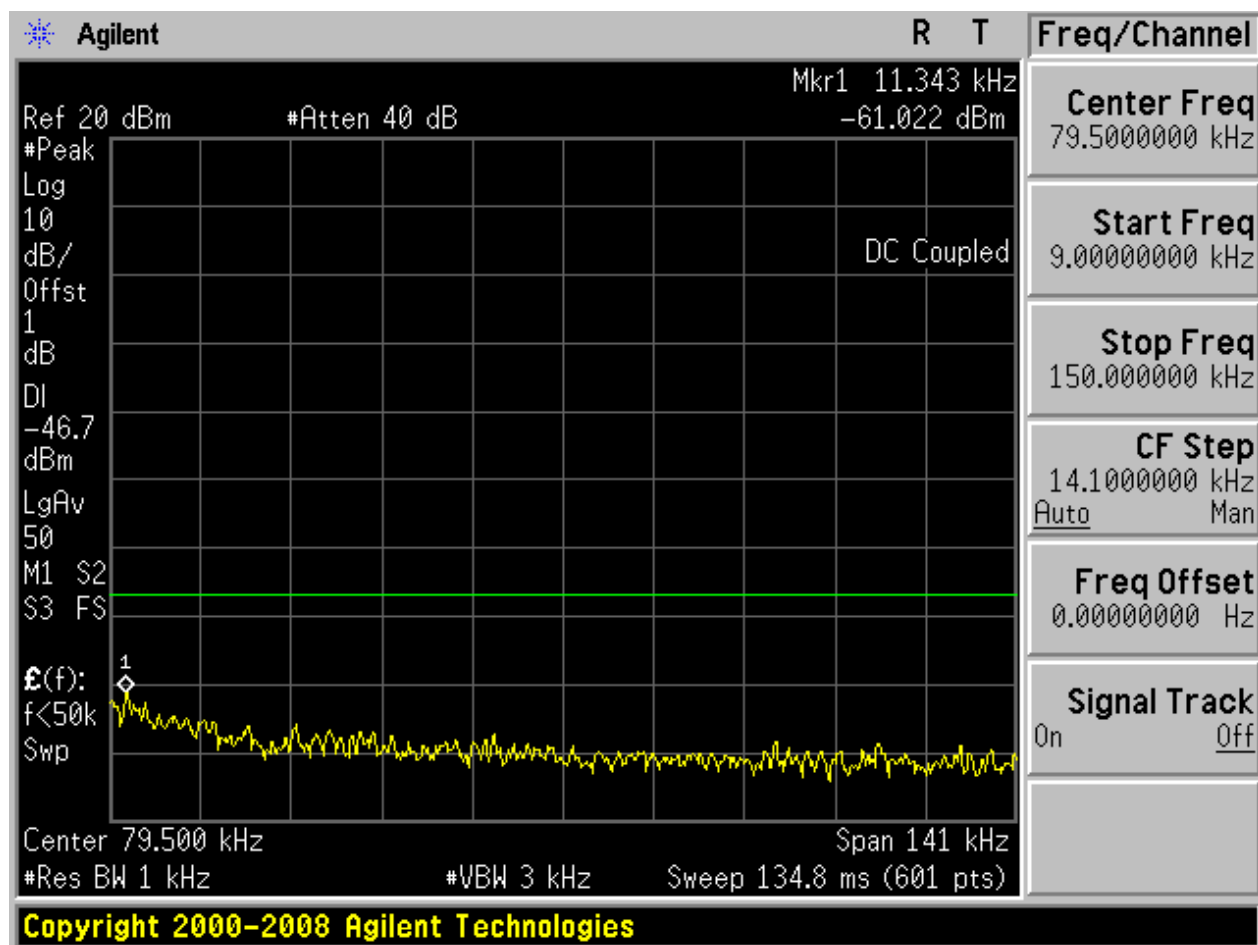
## 2.10 11G\_M@Ant 2

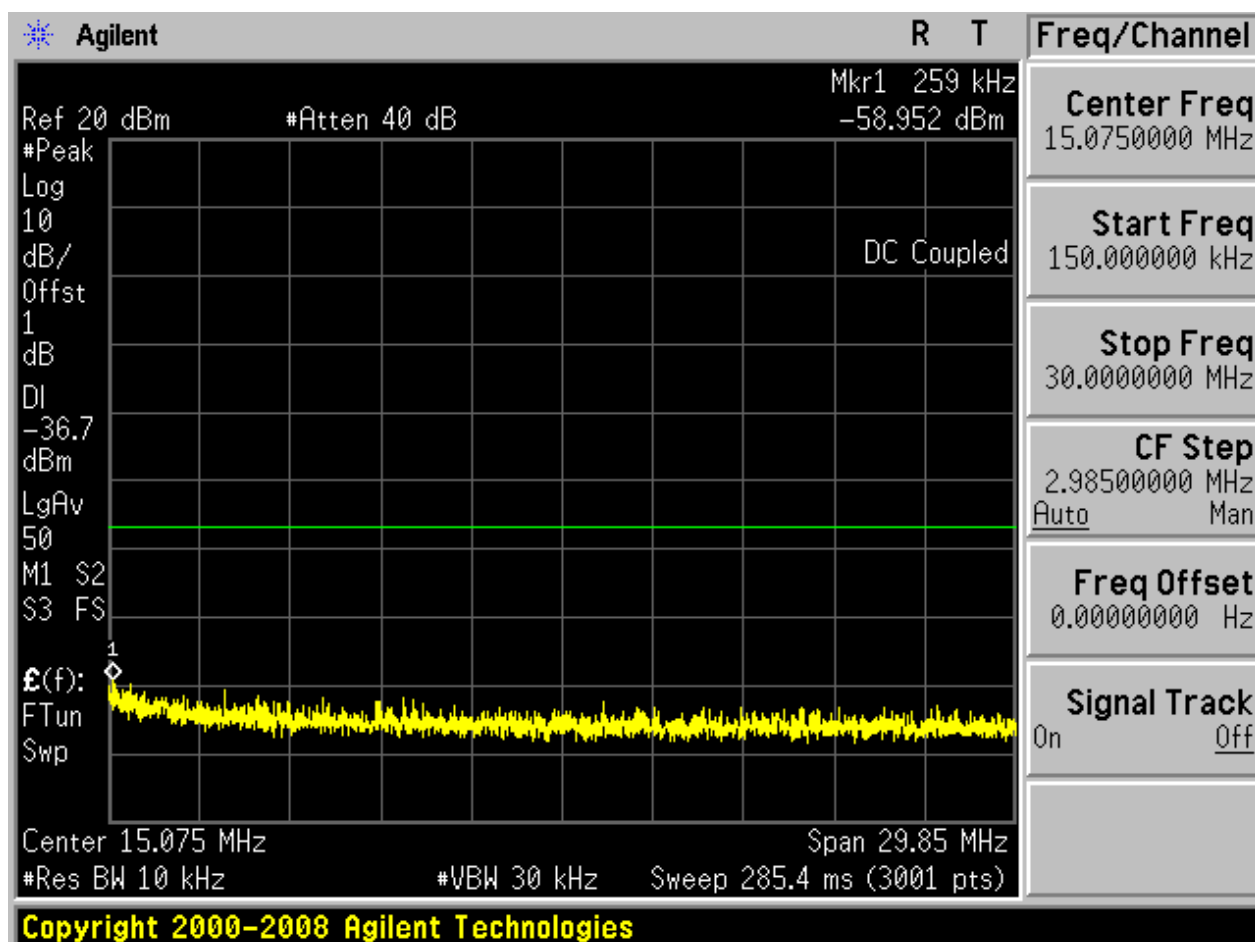
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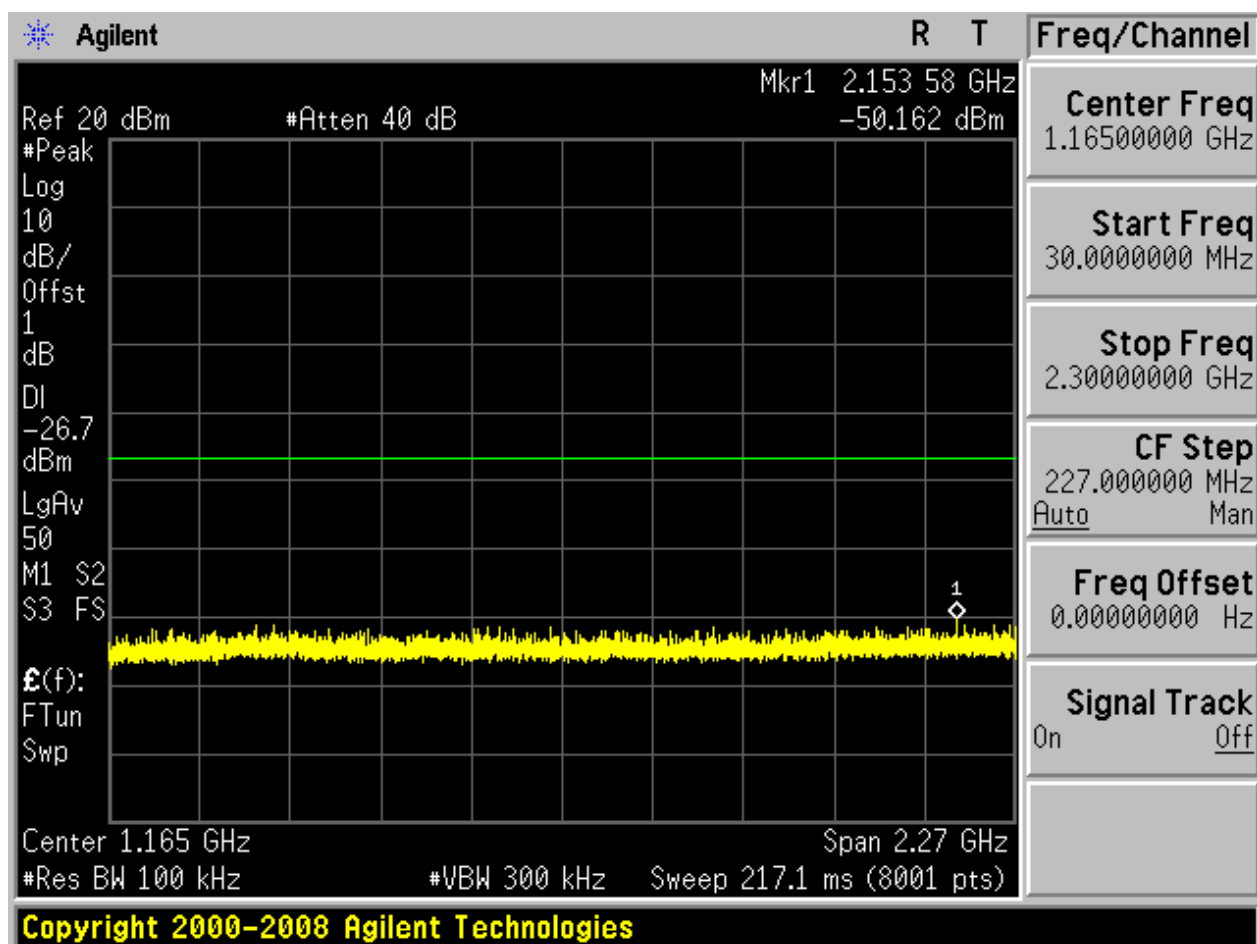


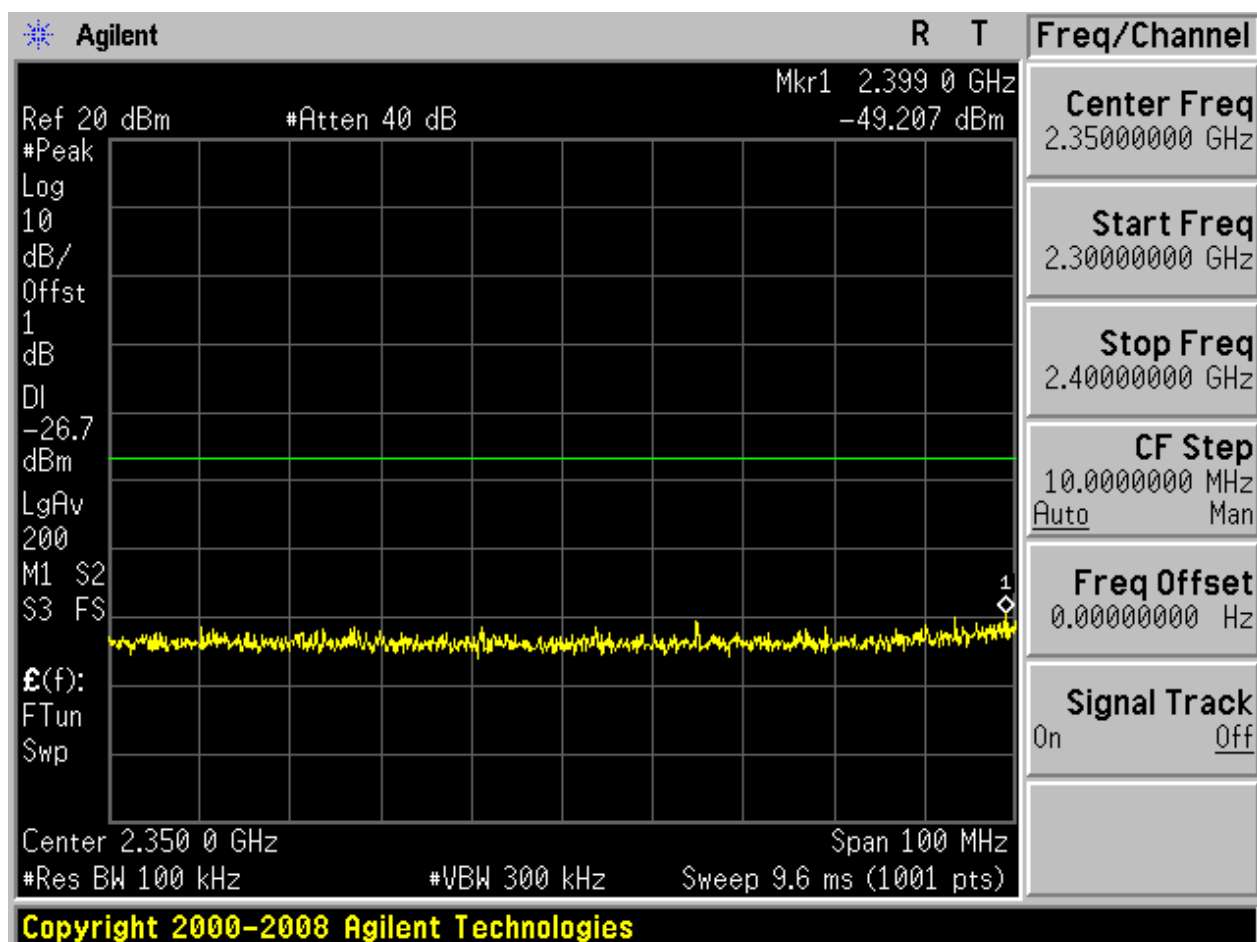


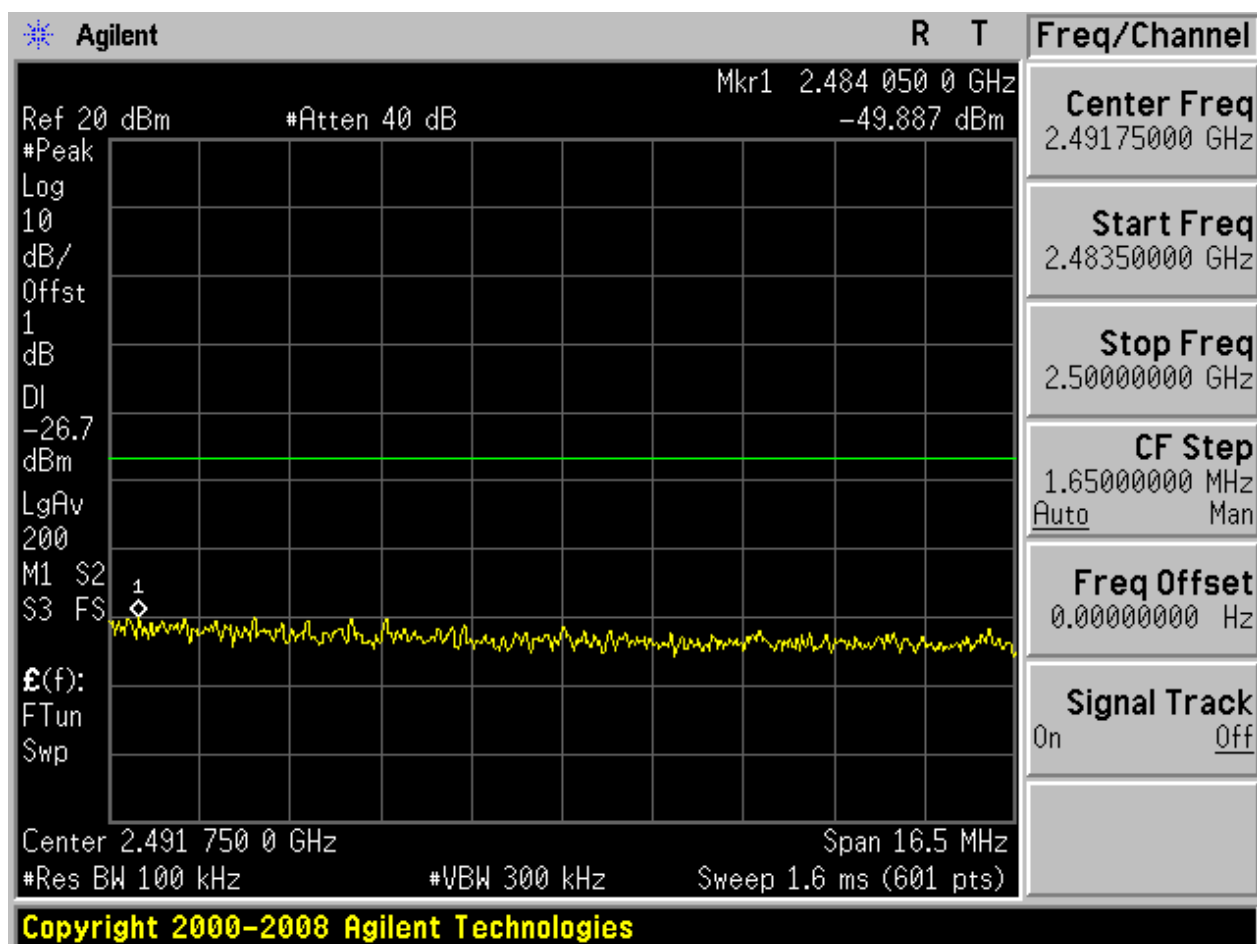
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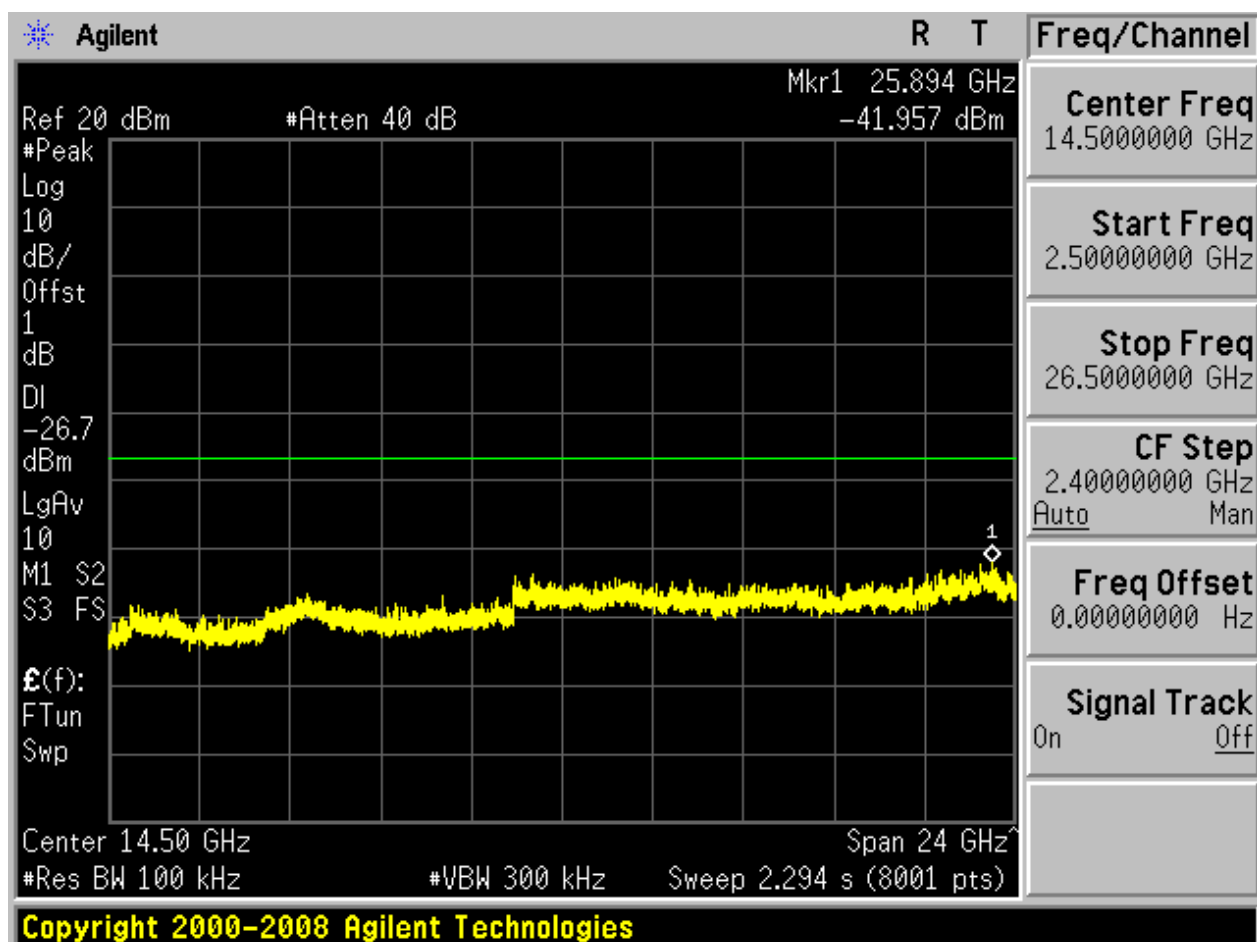






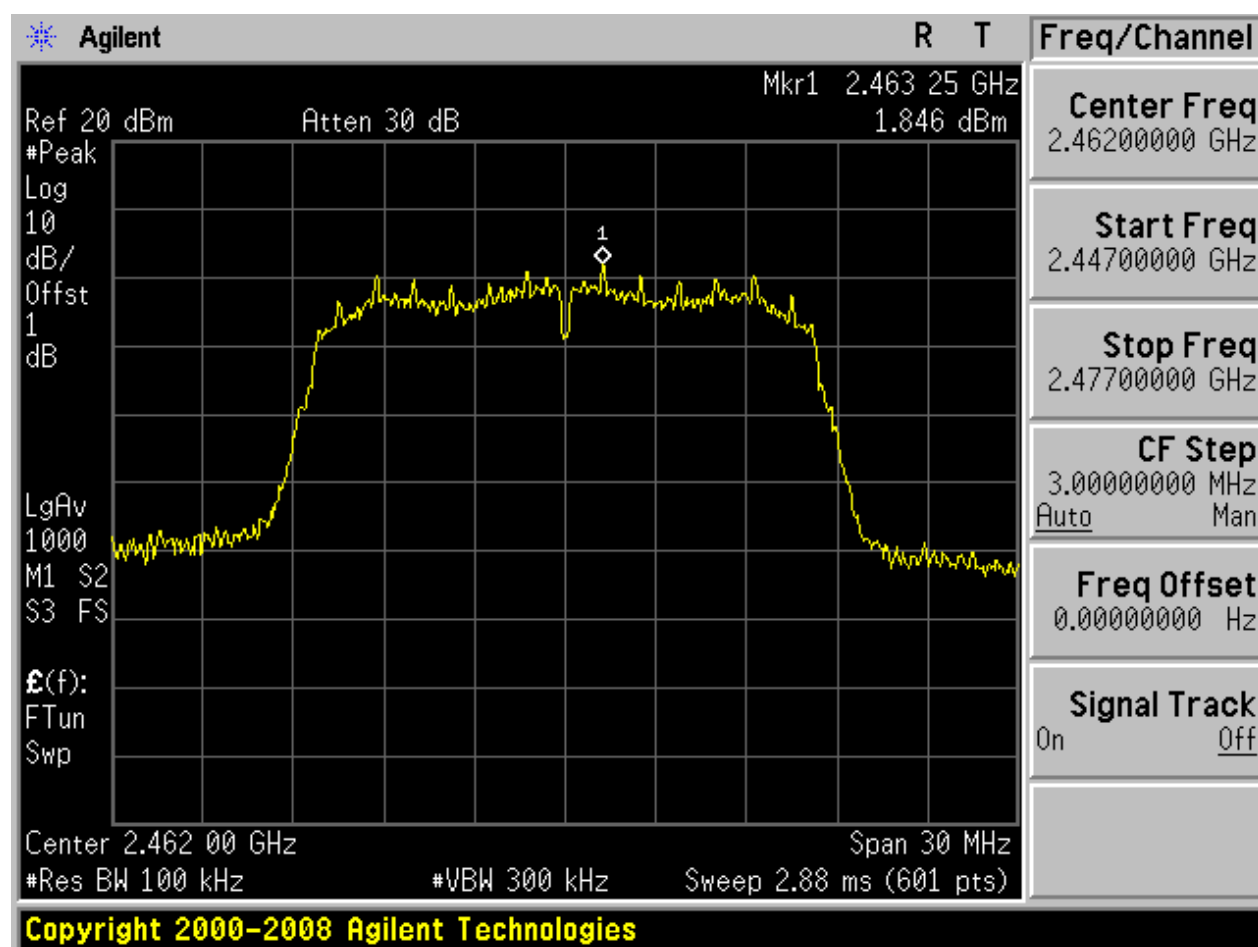






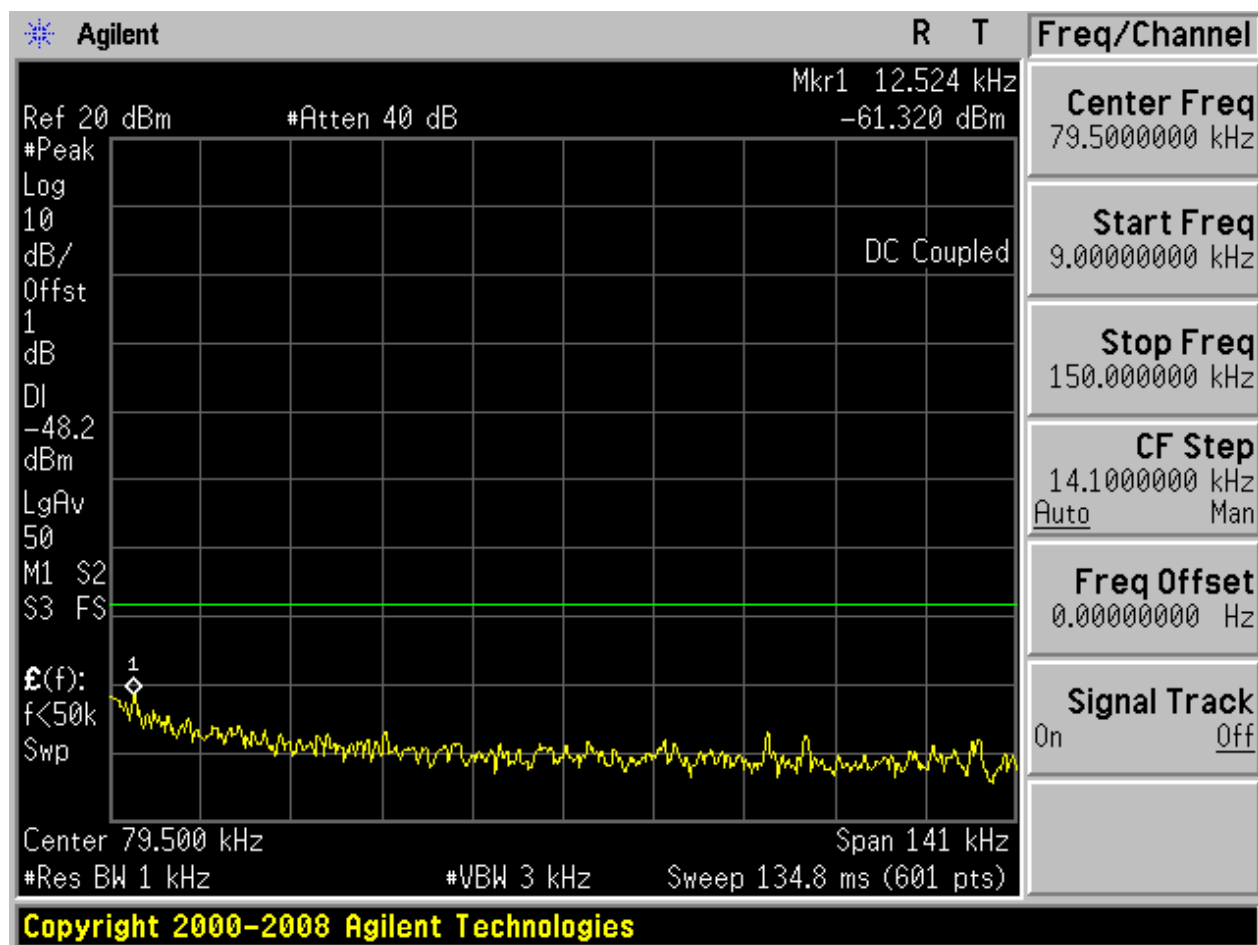
## 2.11 11G\_H@Ant 1

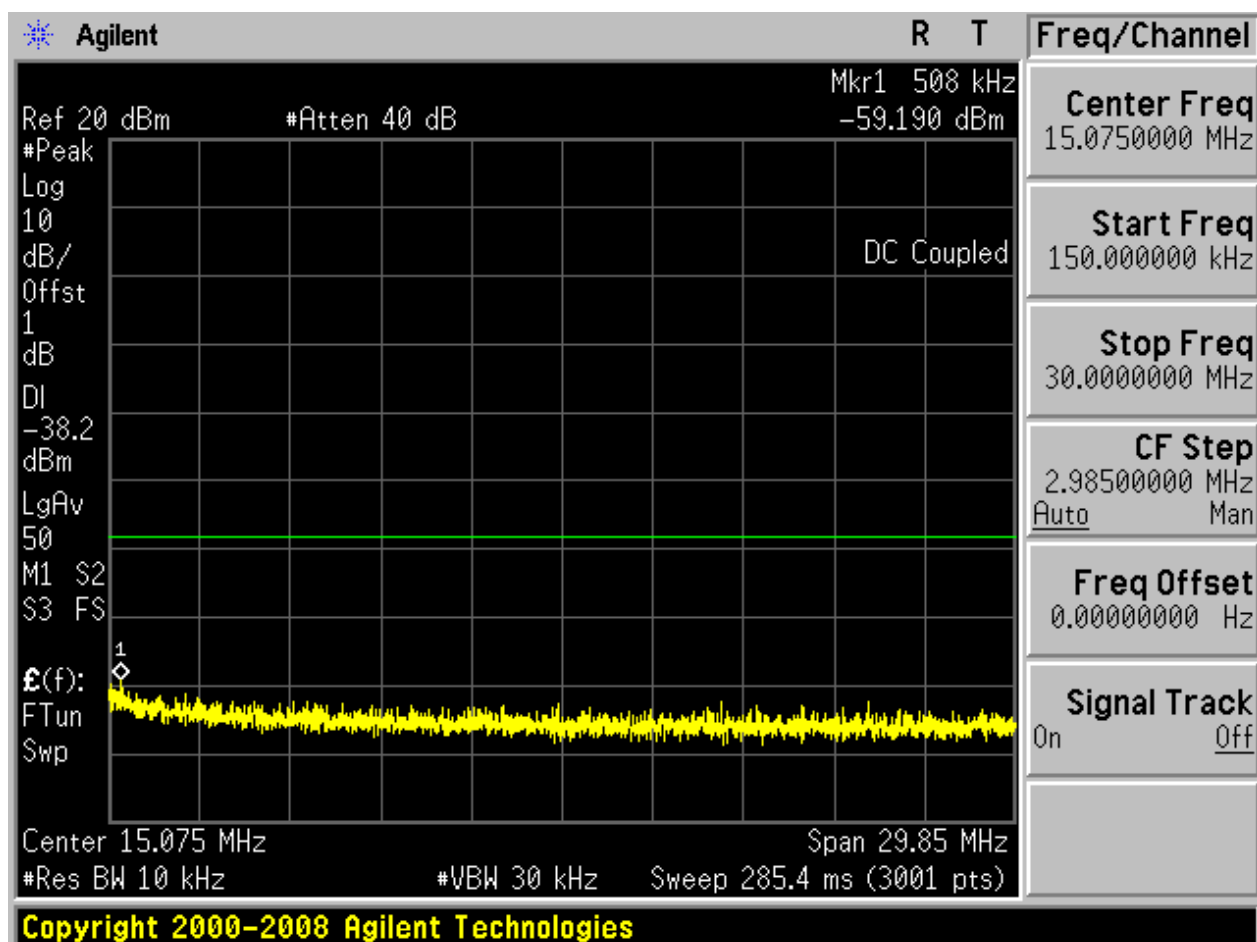
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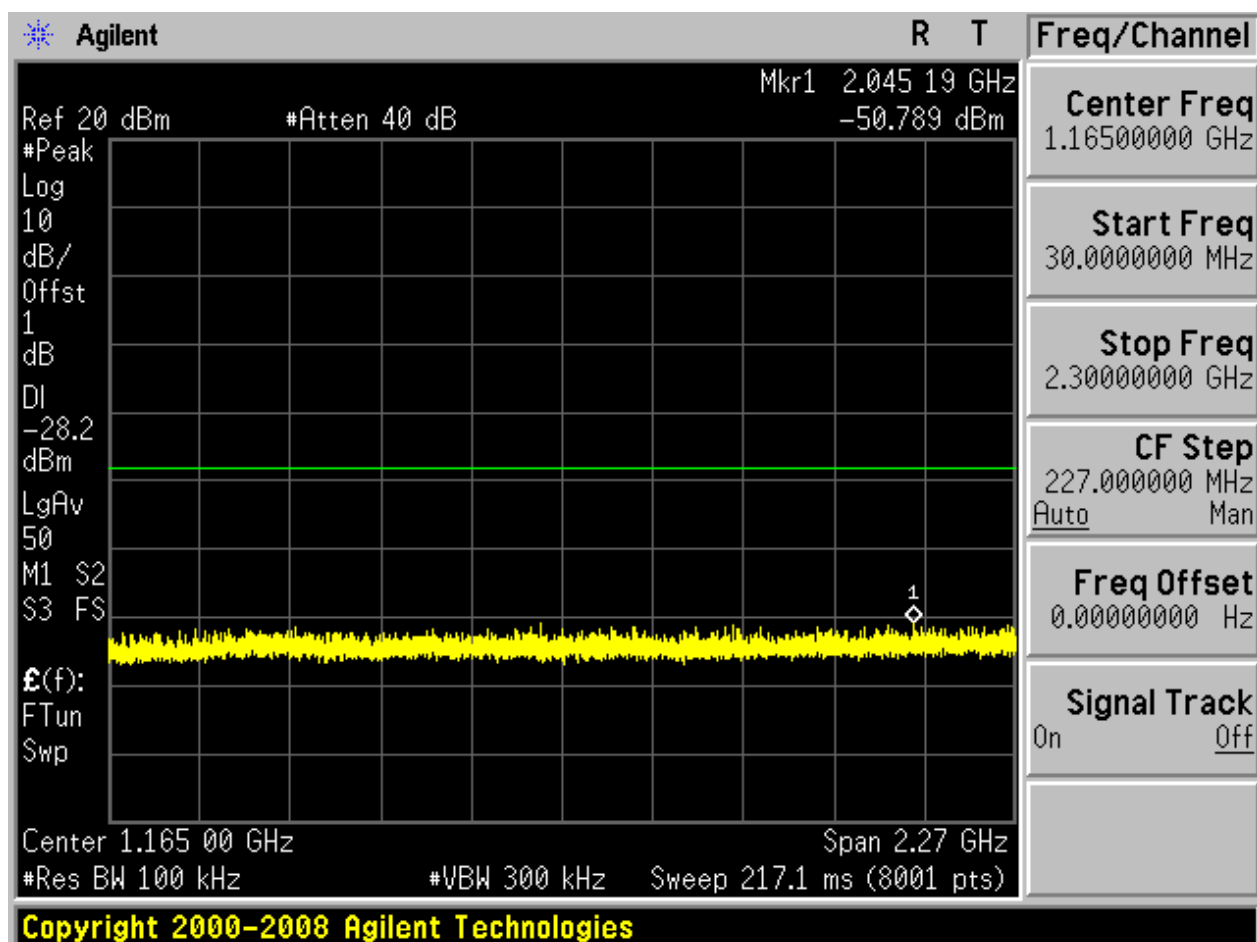


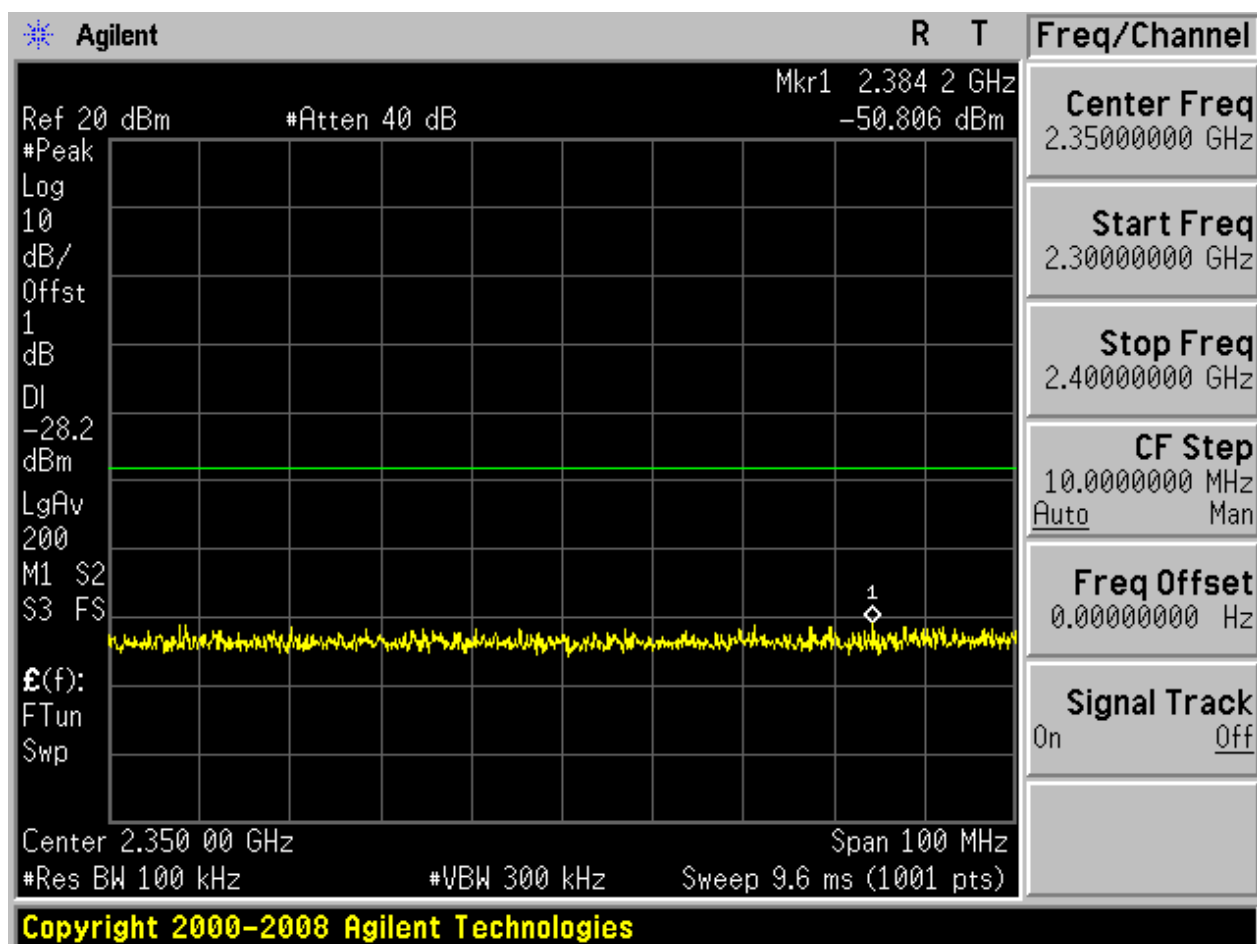


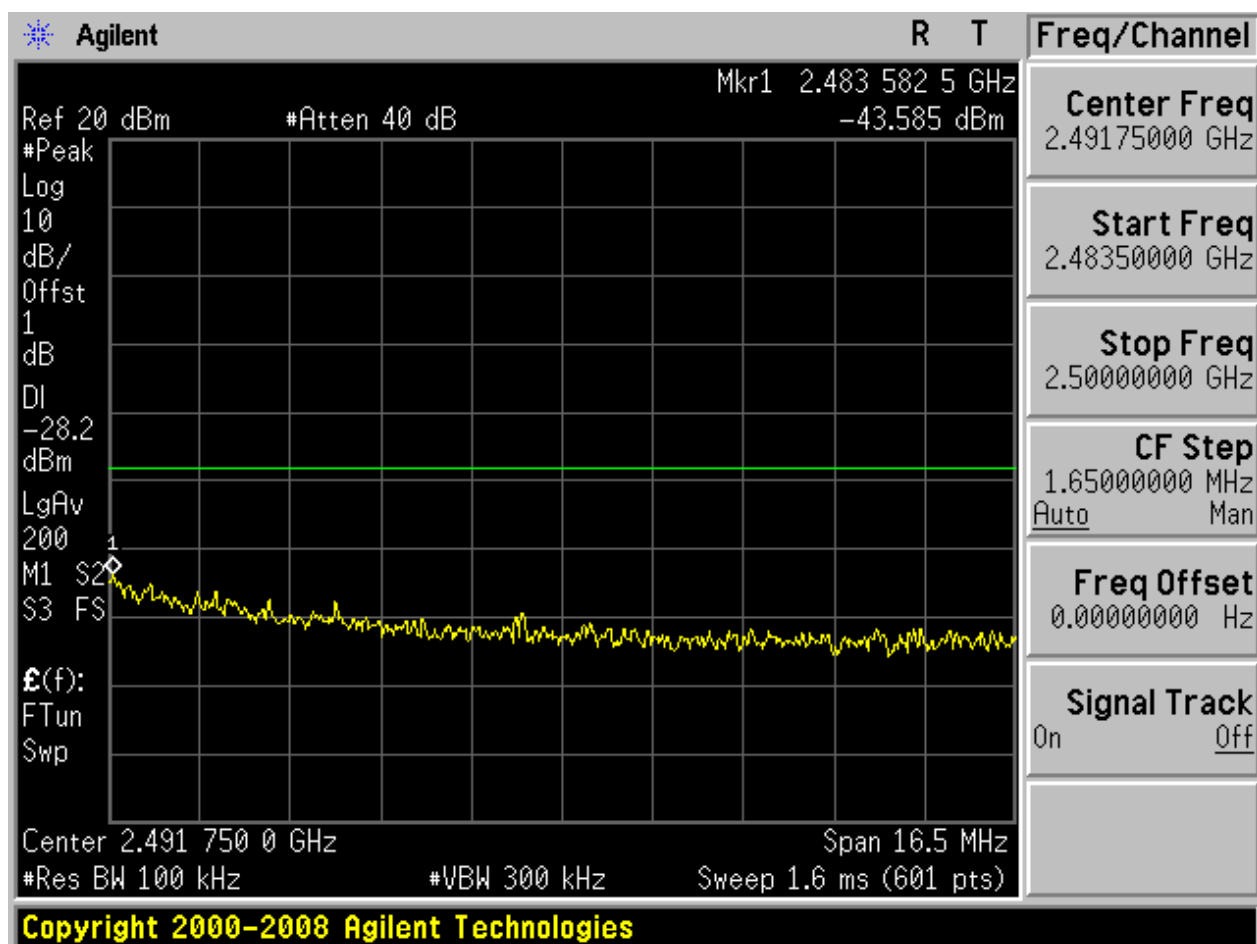
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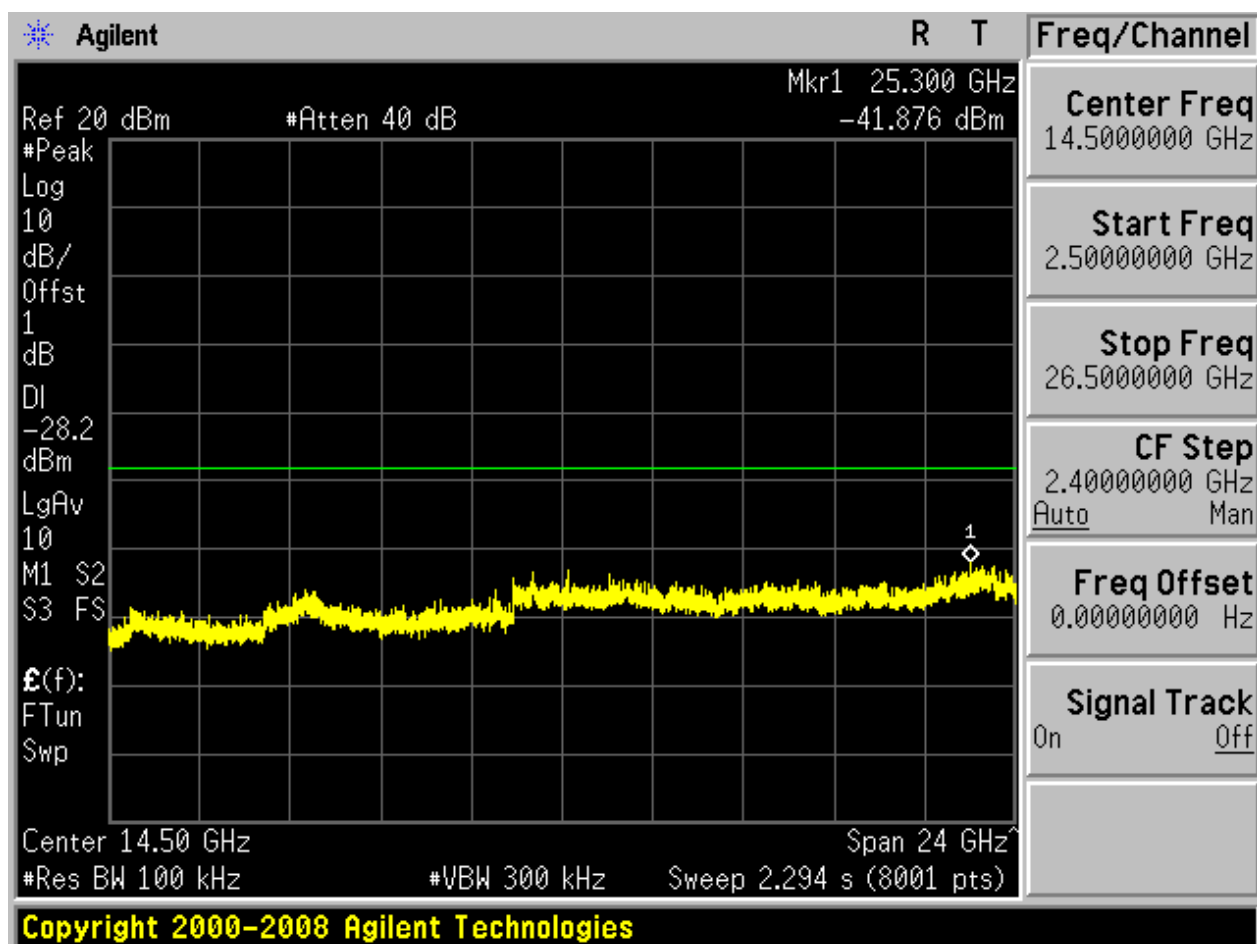






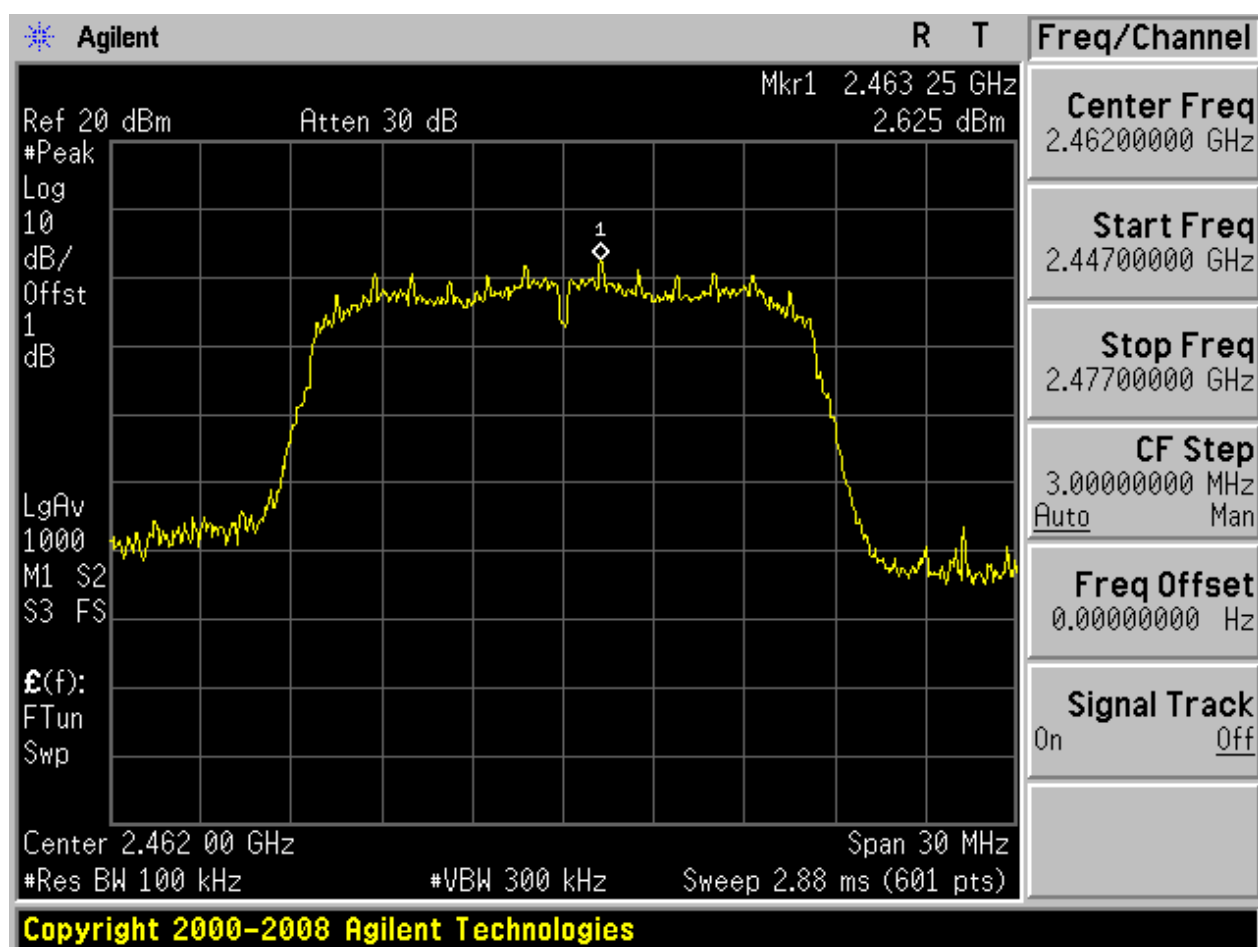






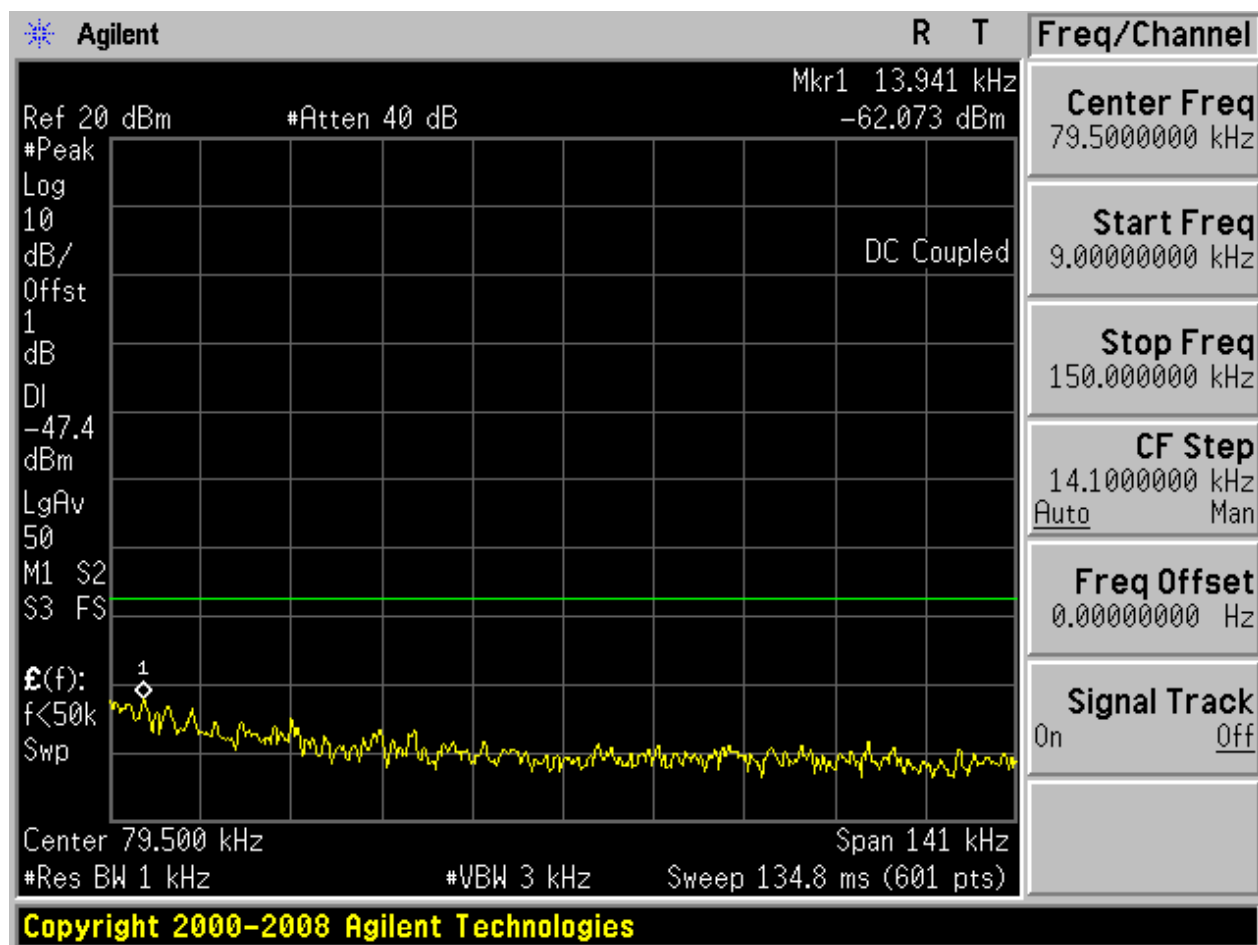
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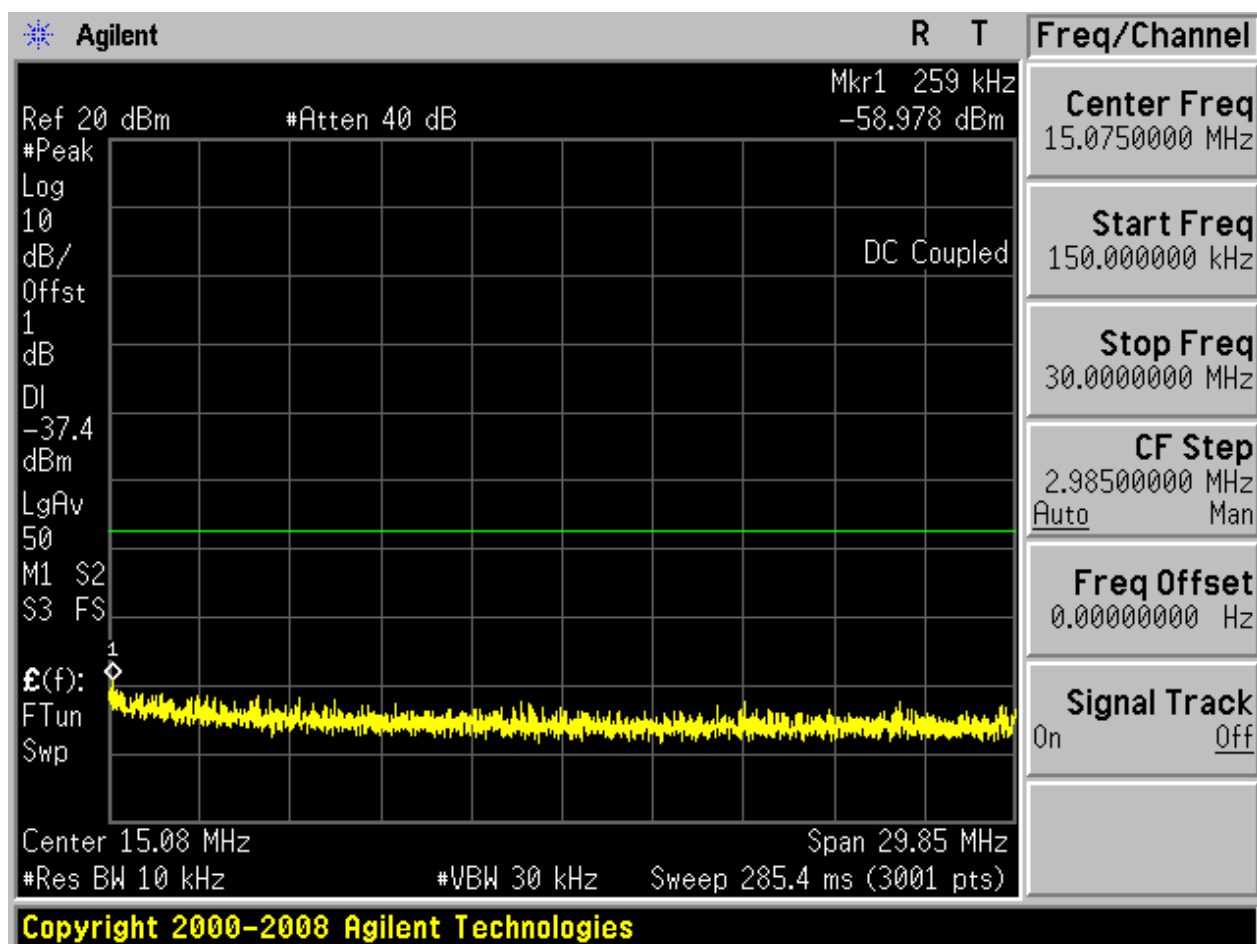
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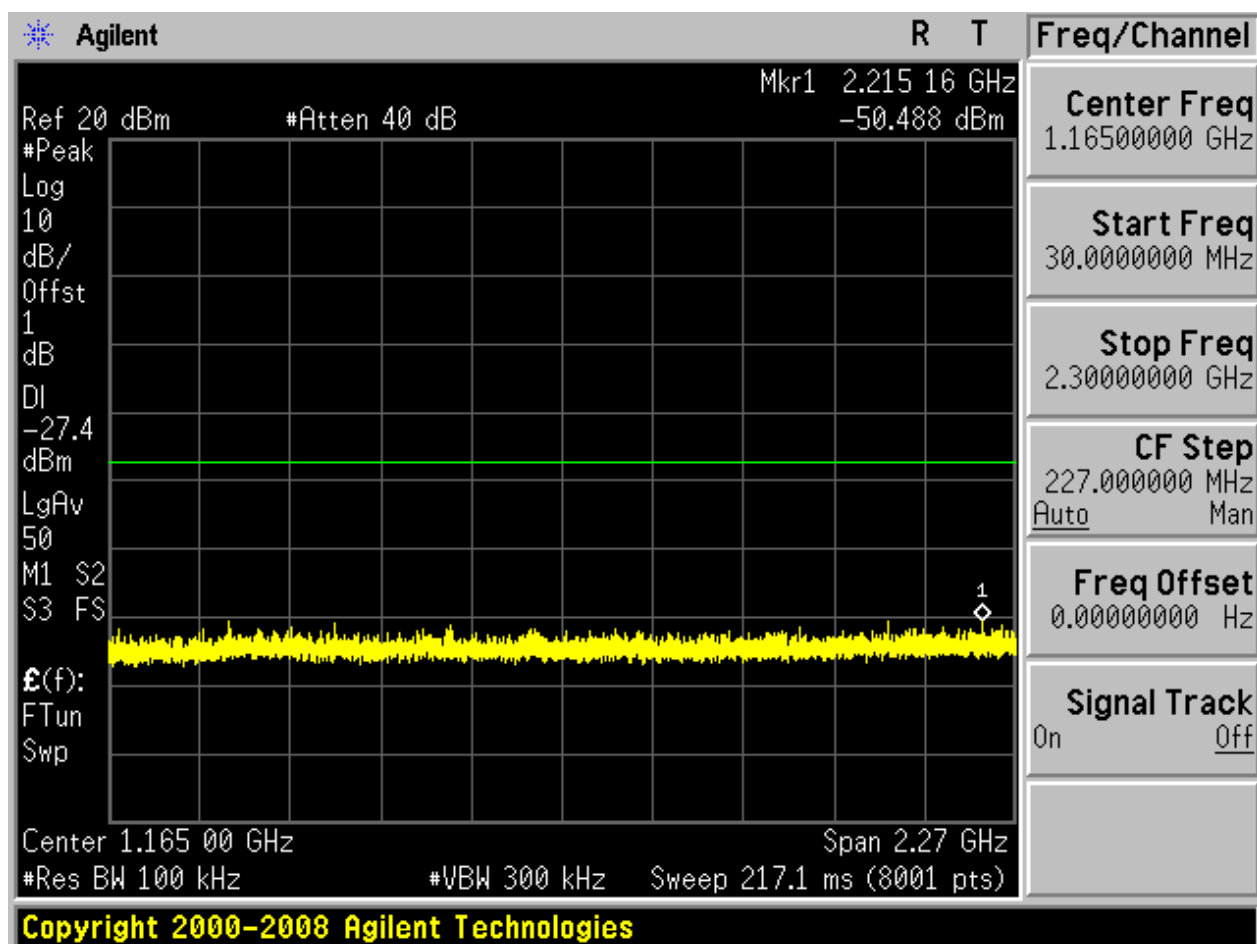


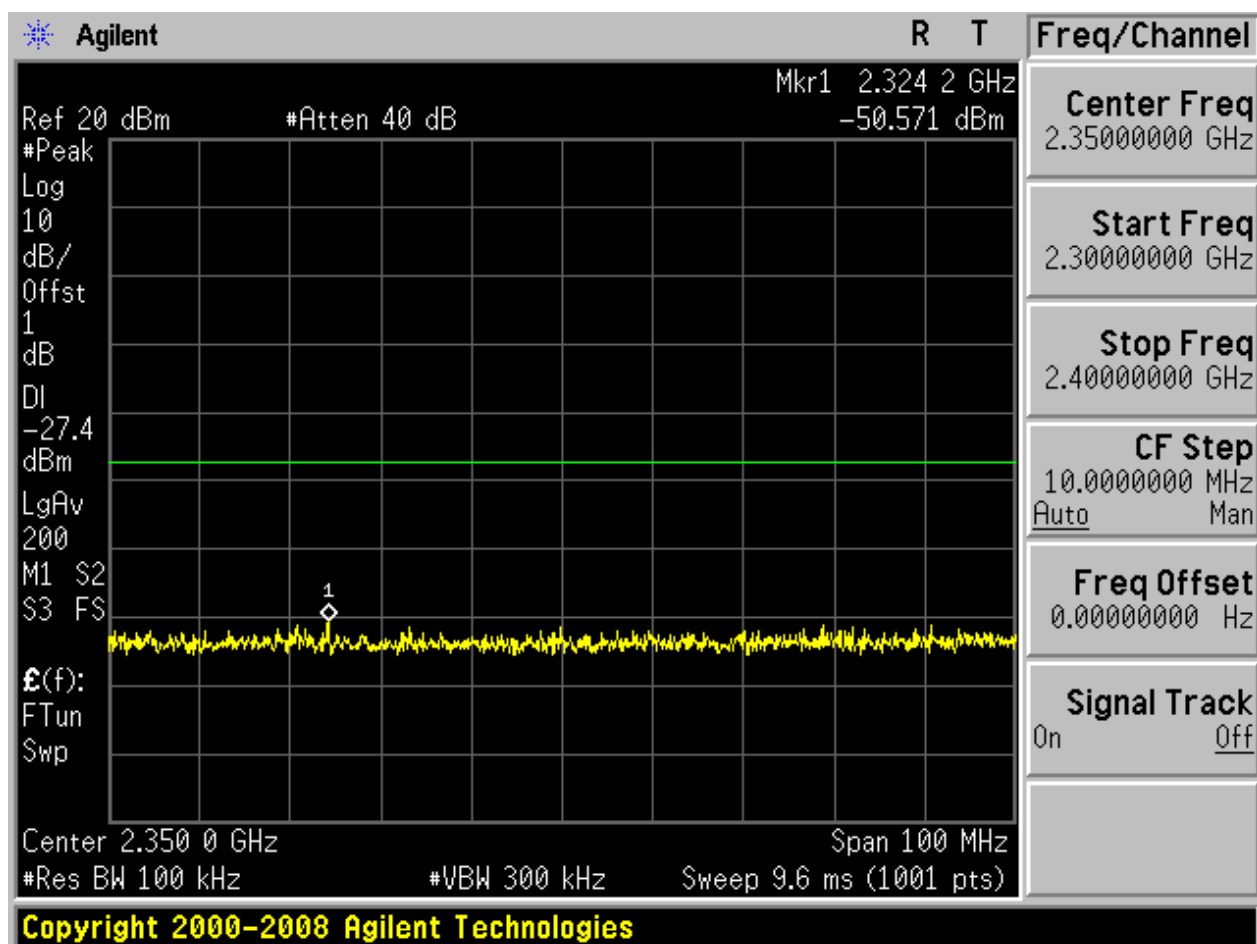


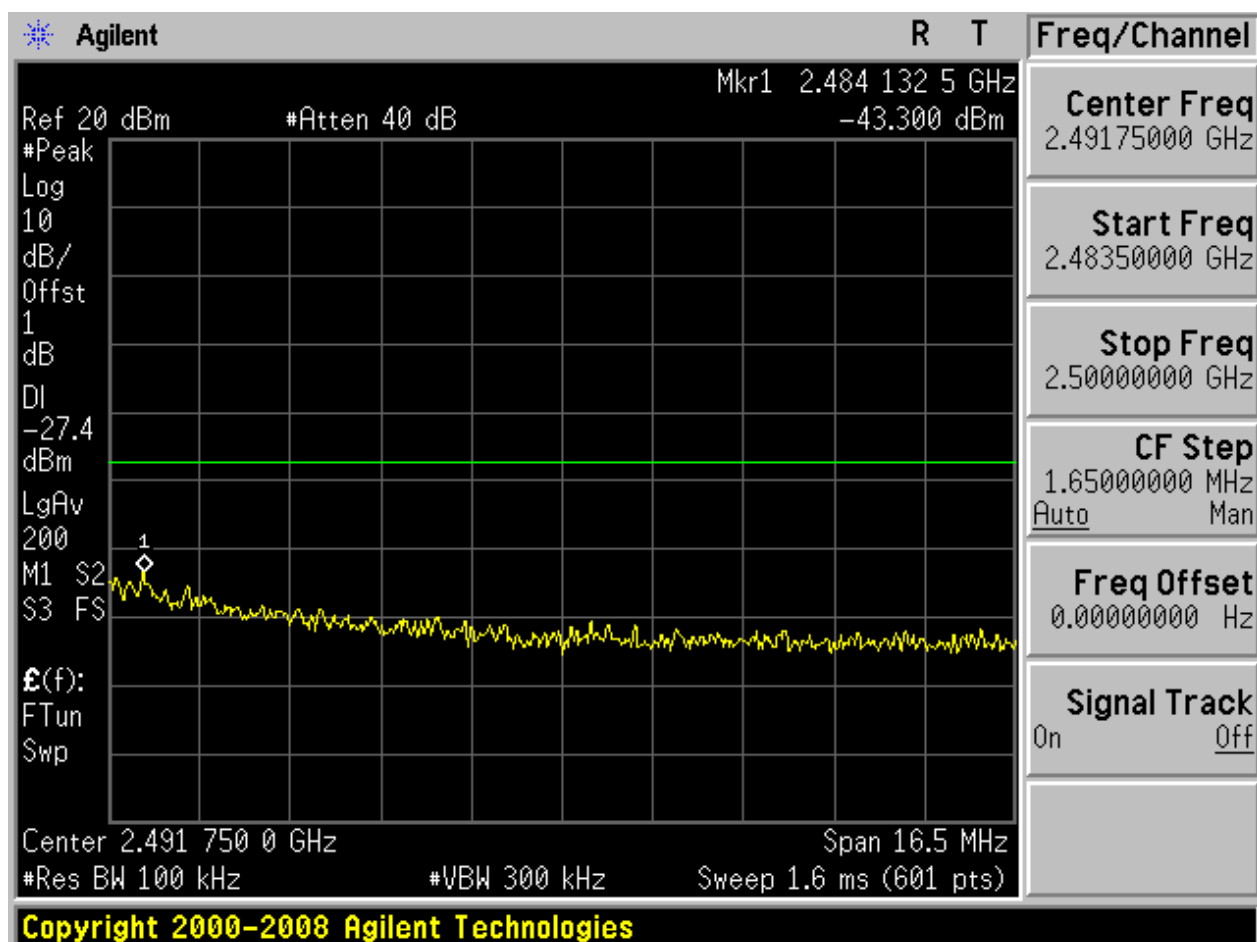
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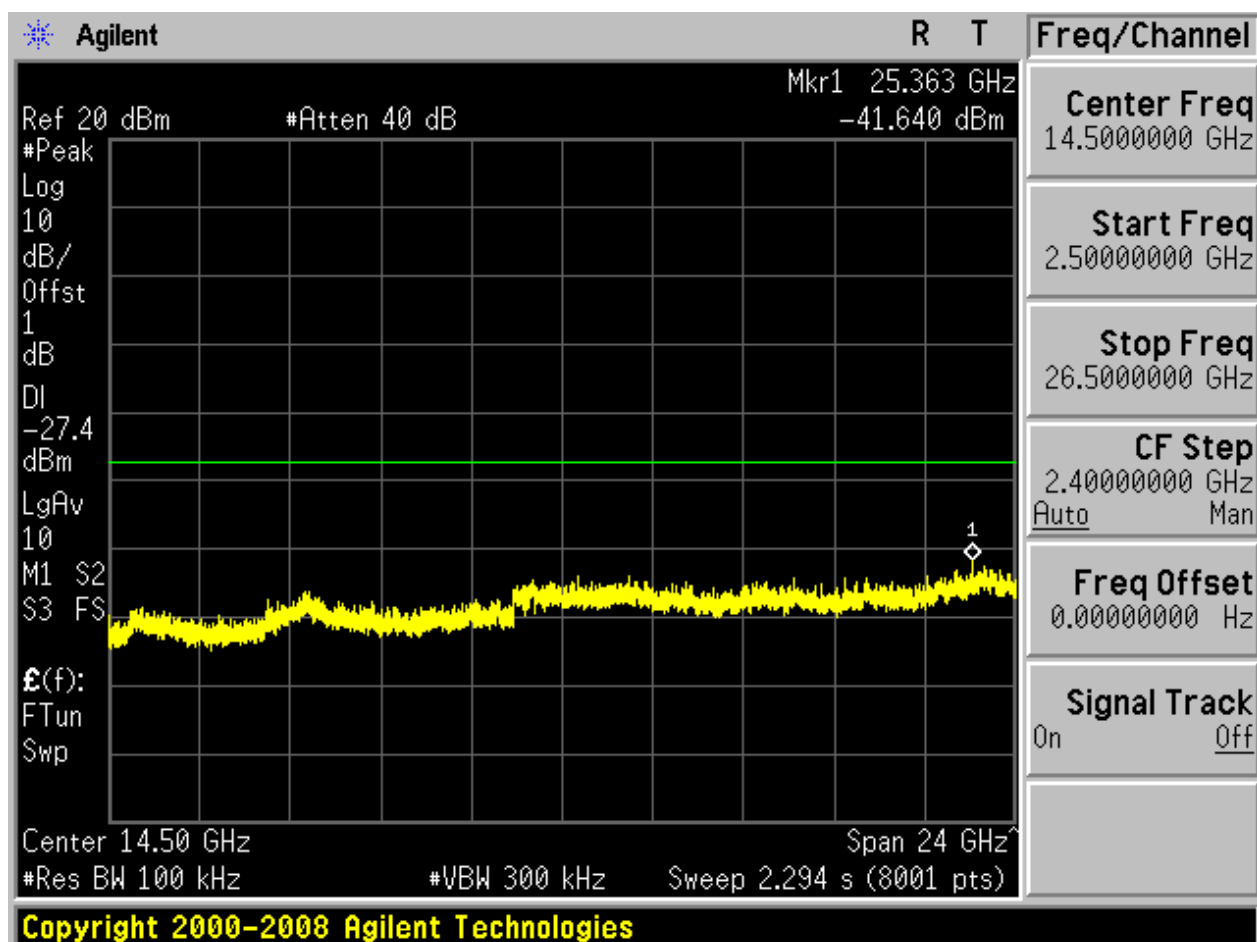






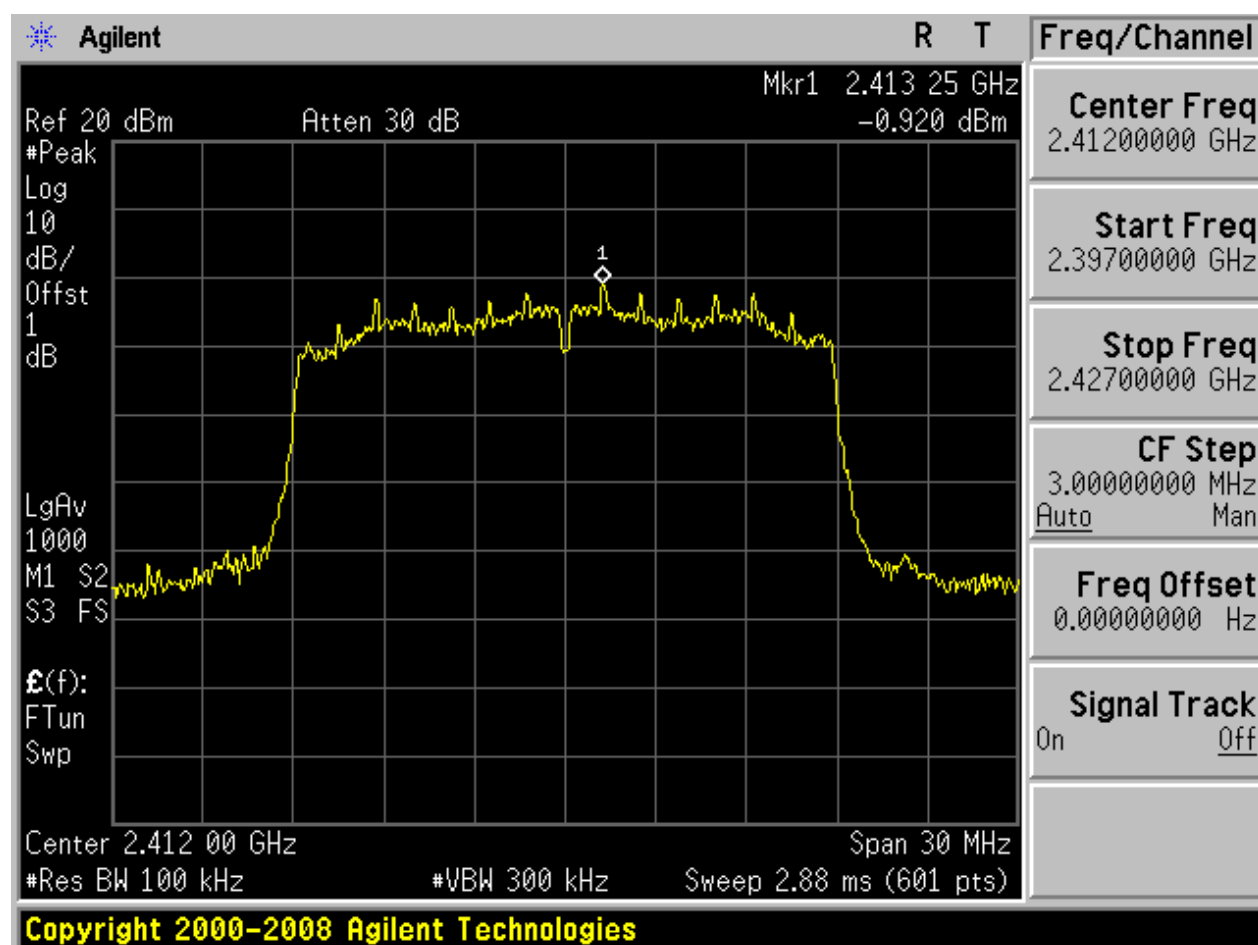






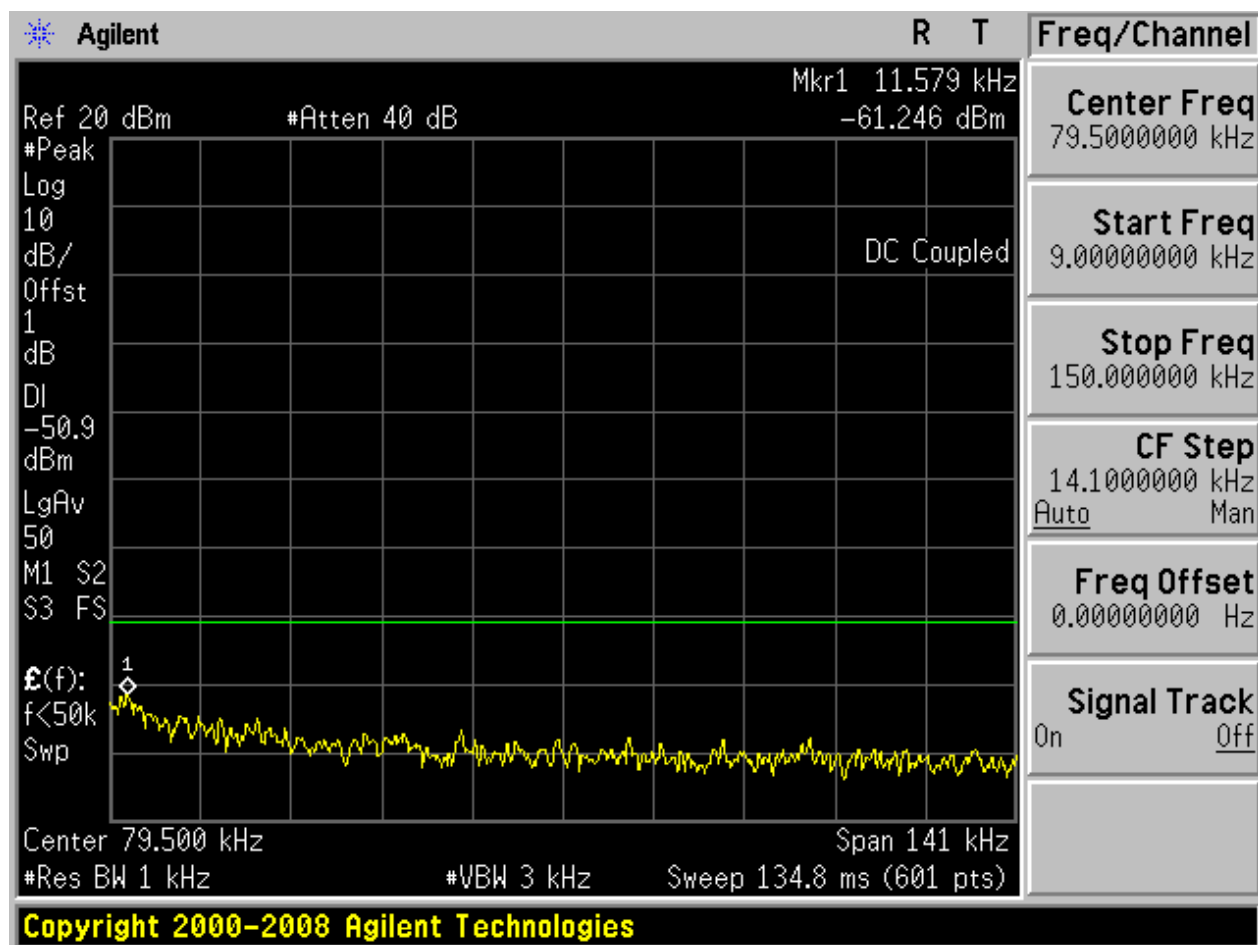
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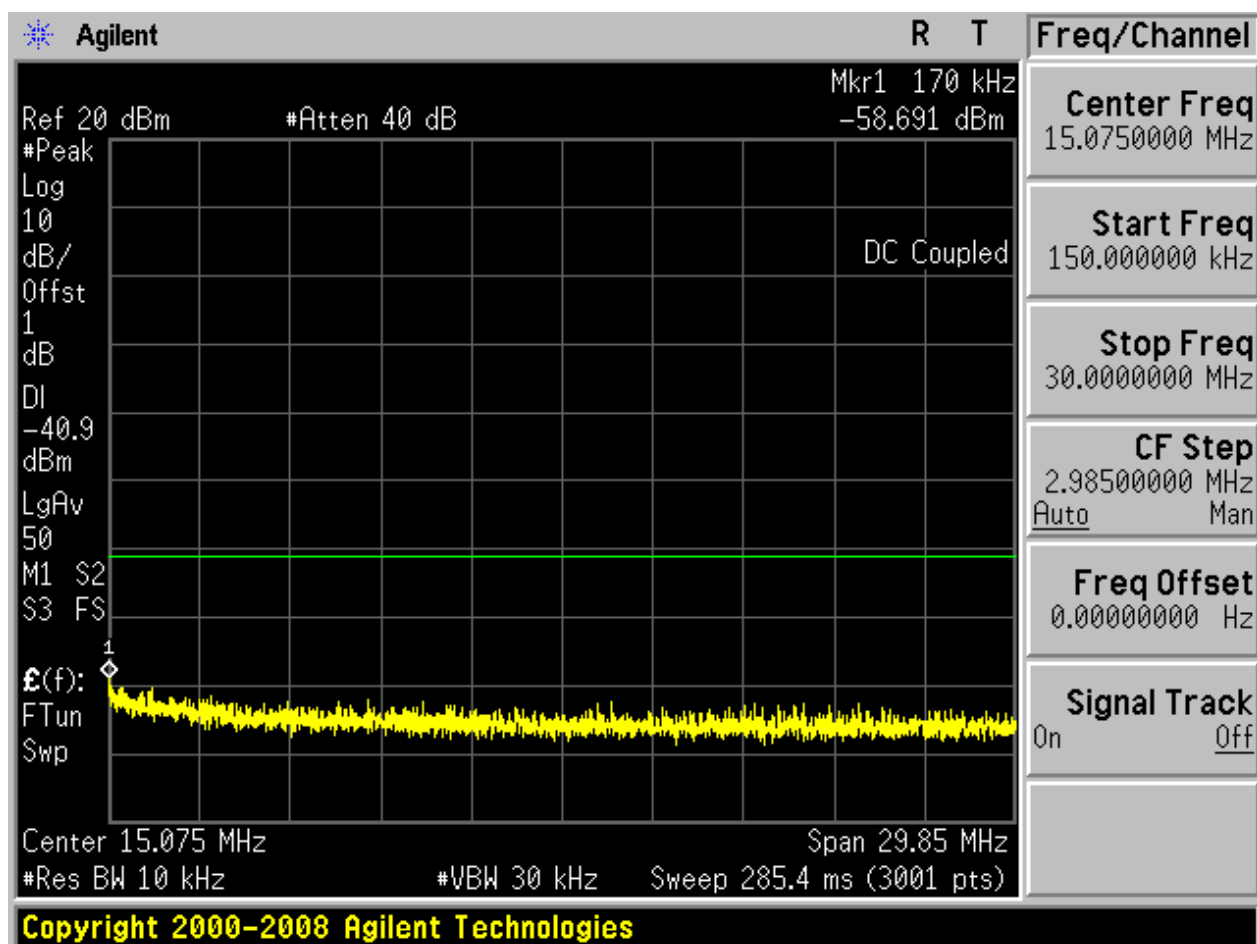
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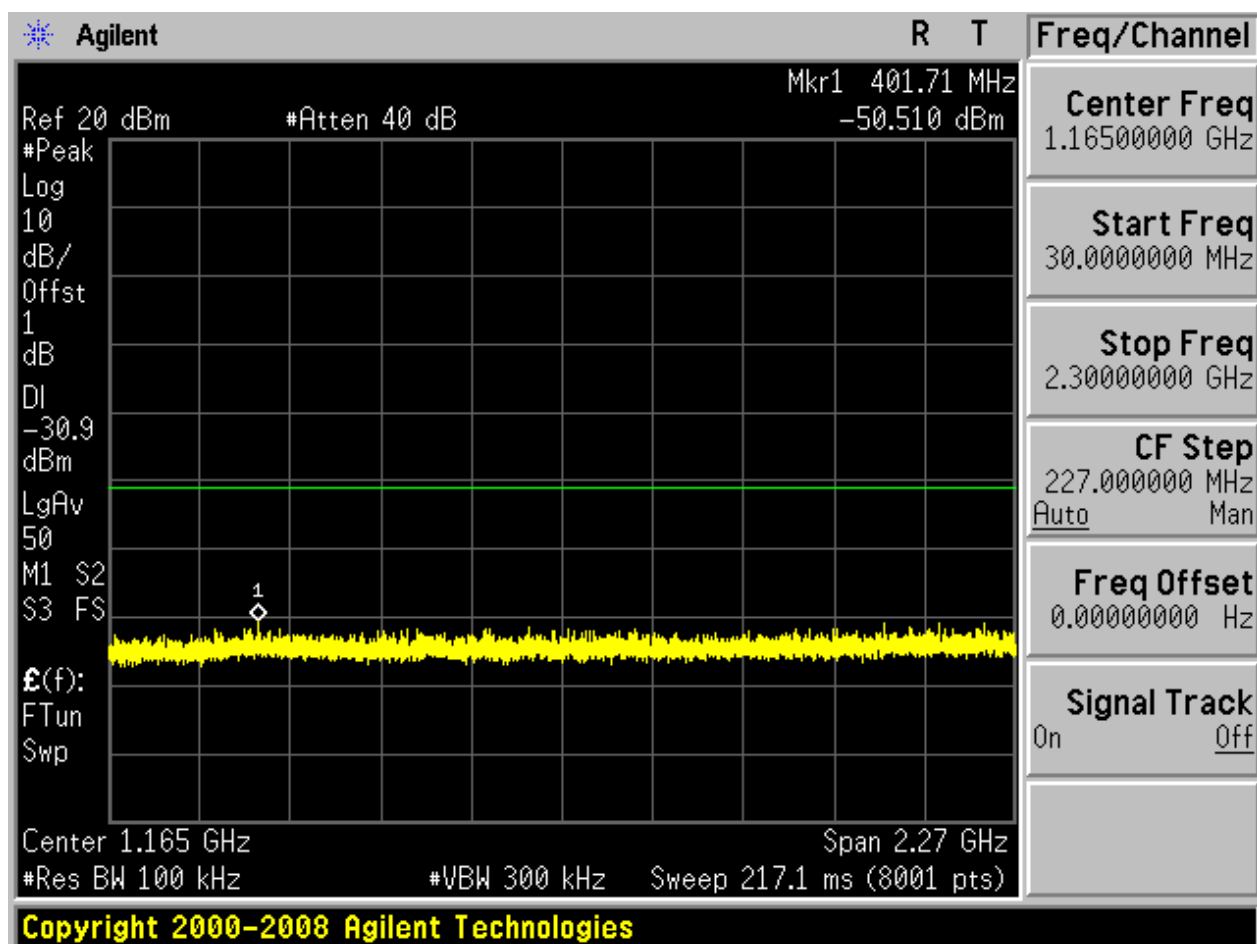


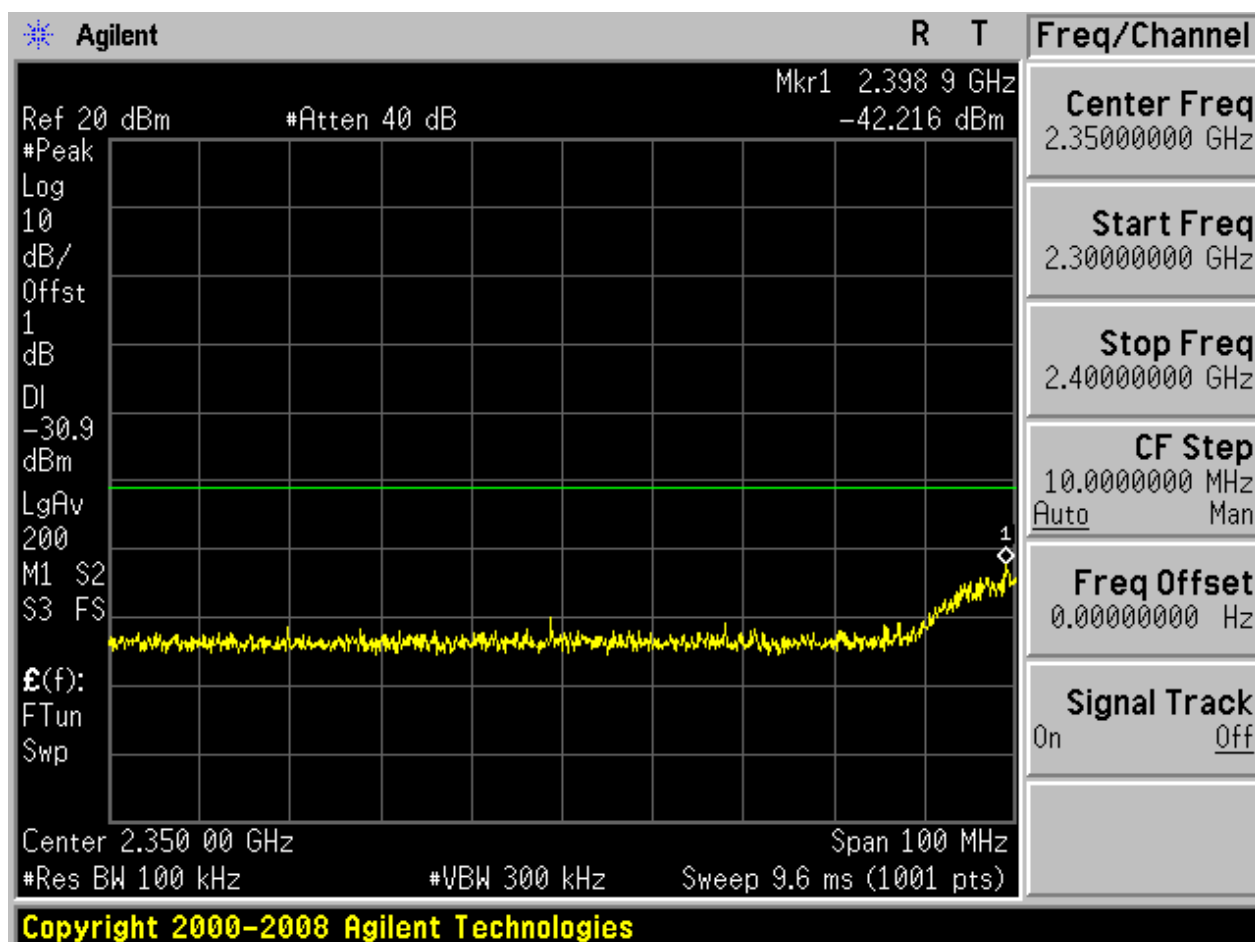


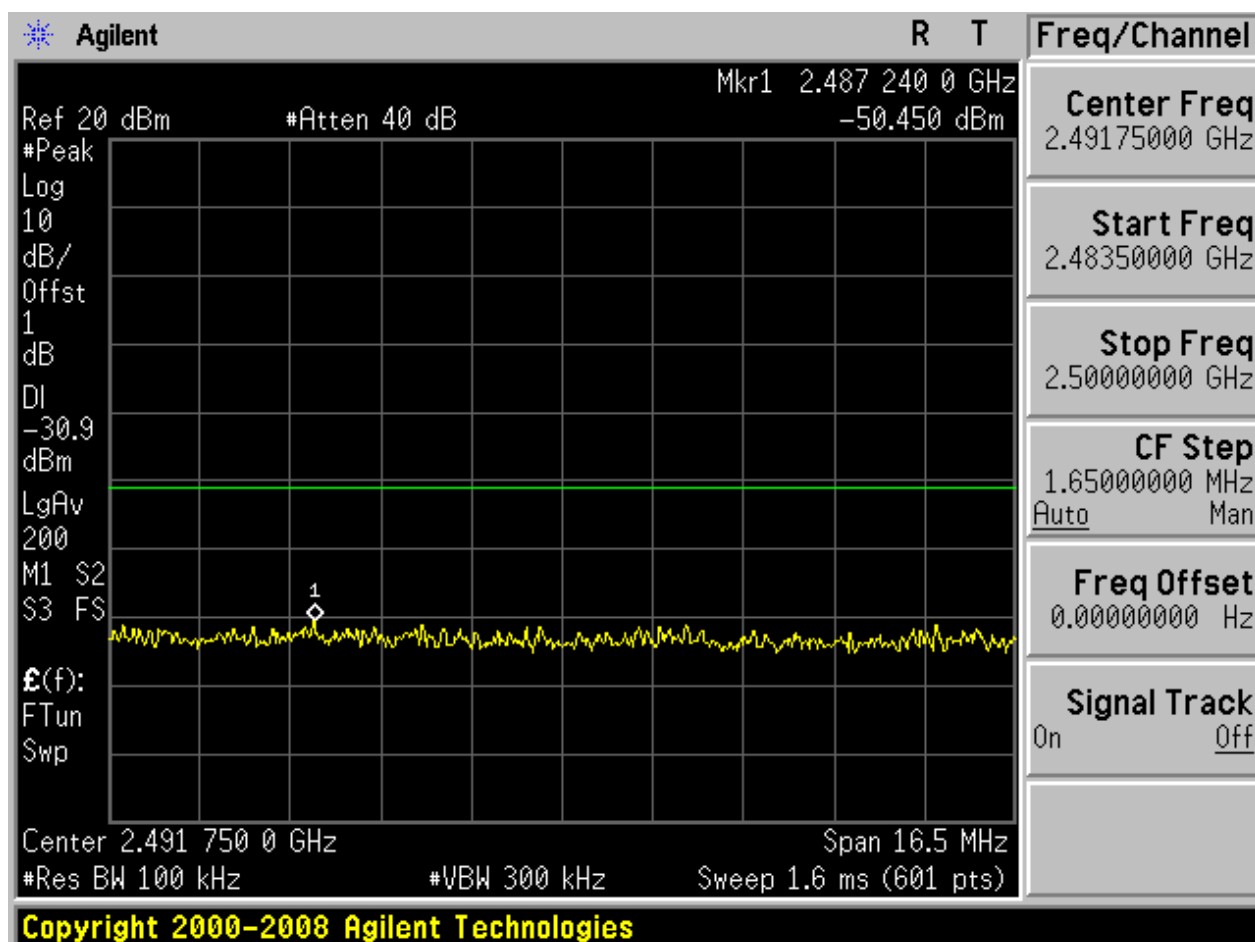
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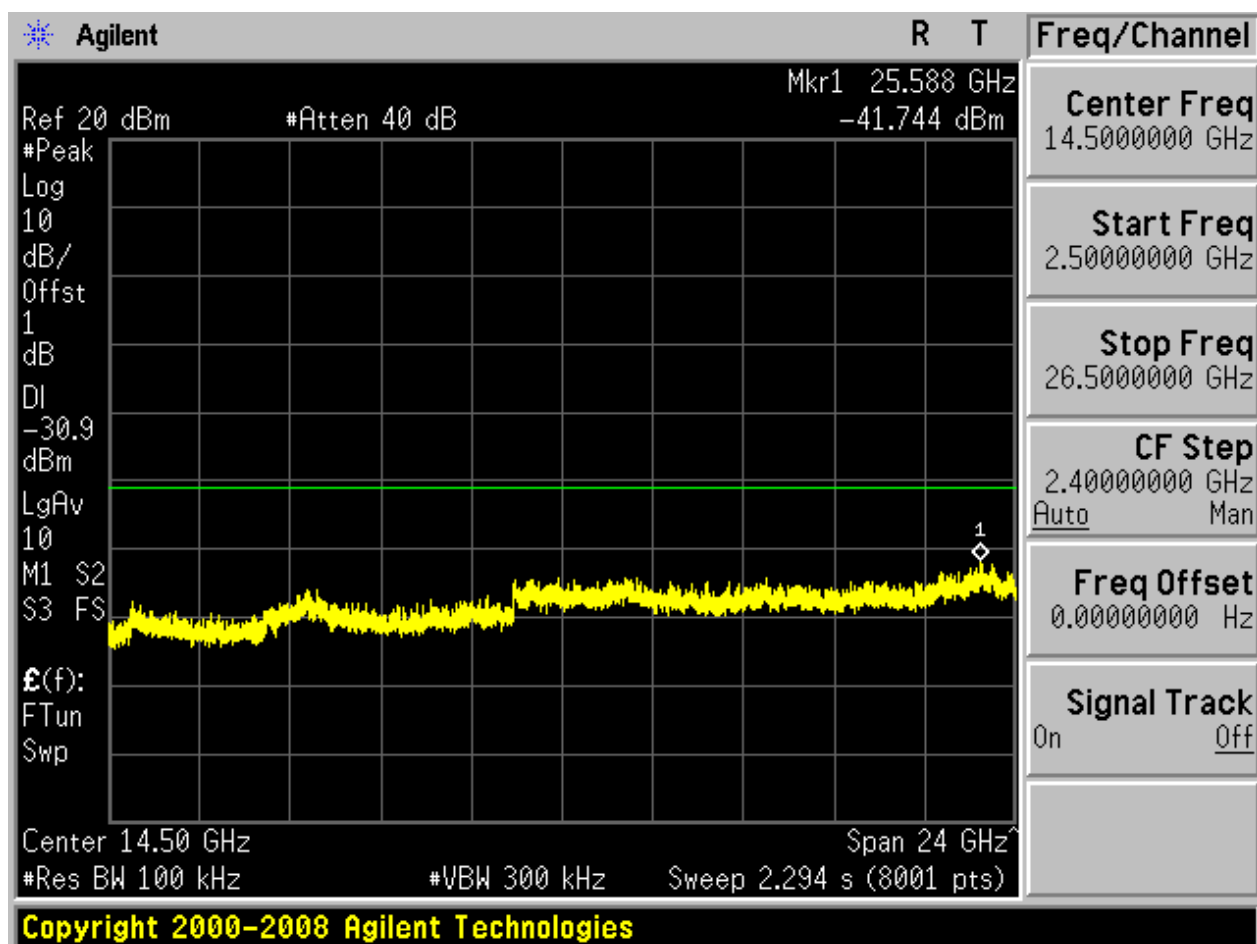






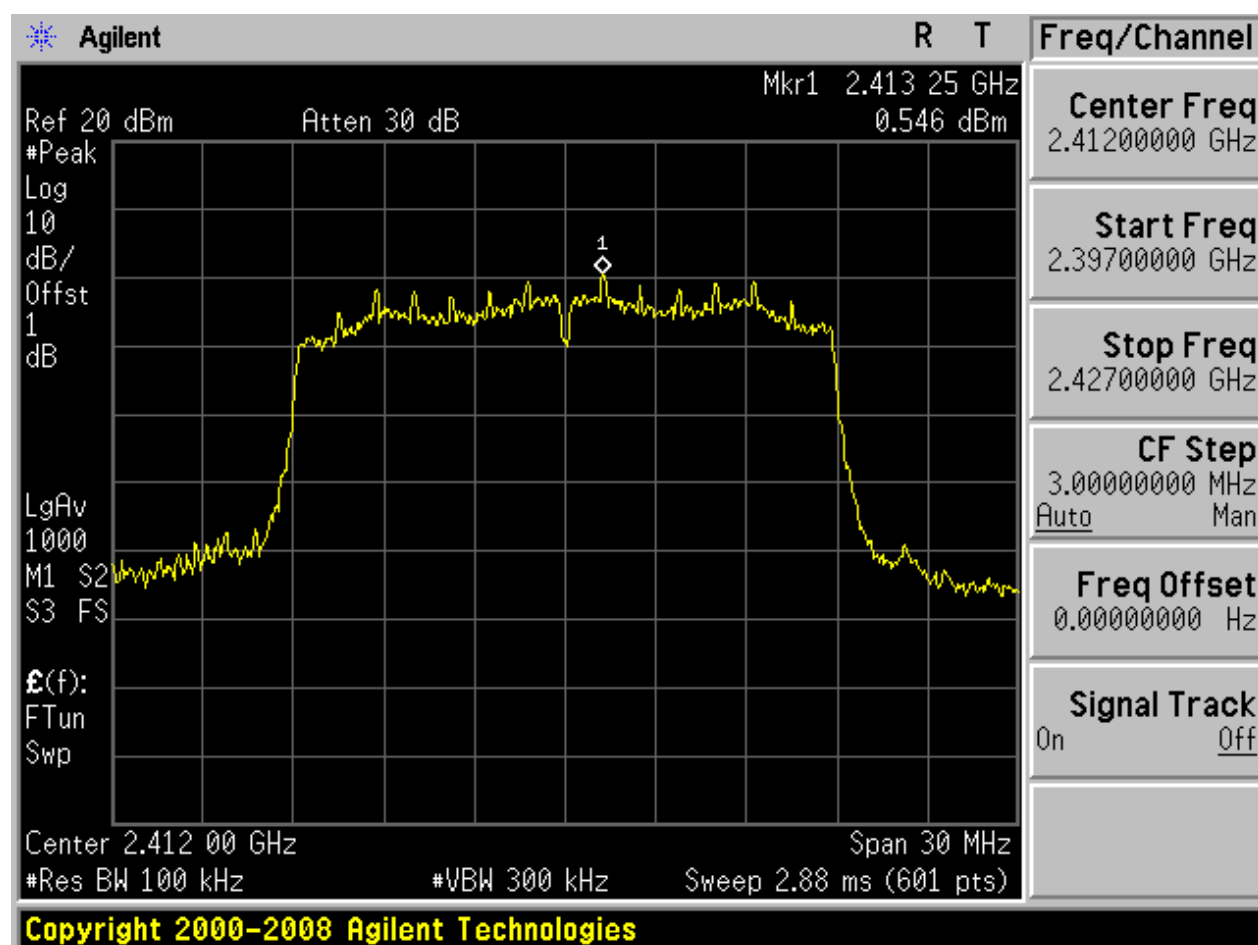






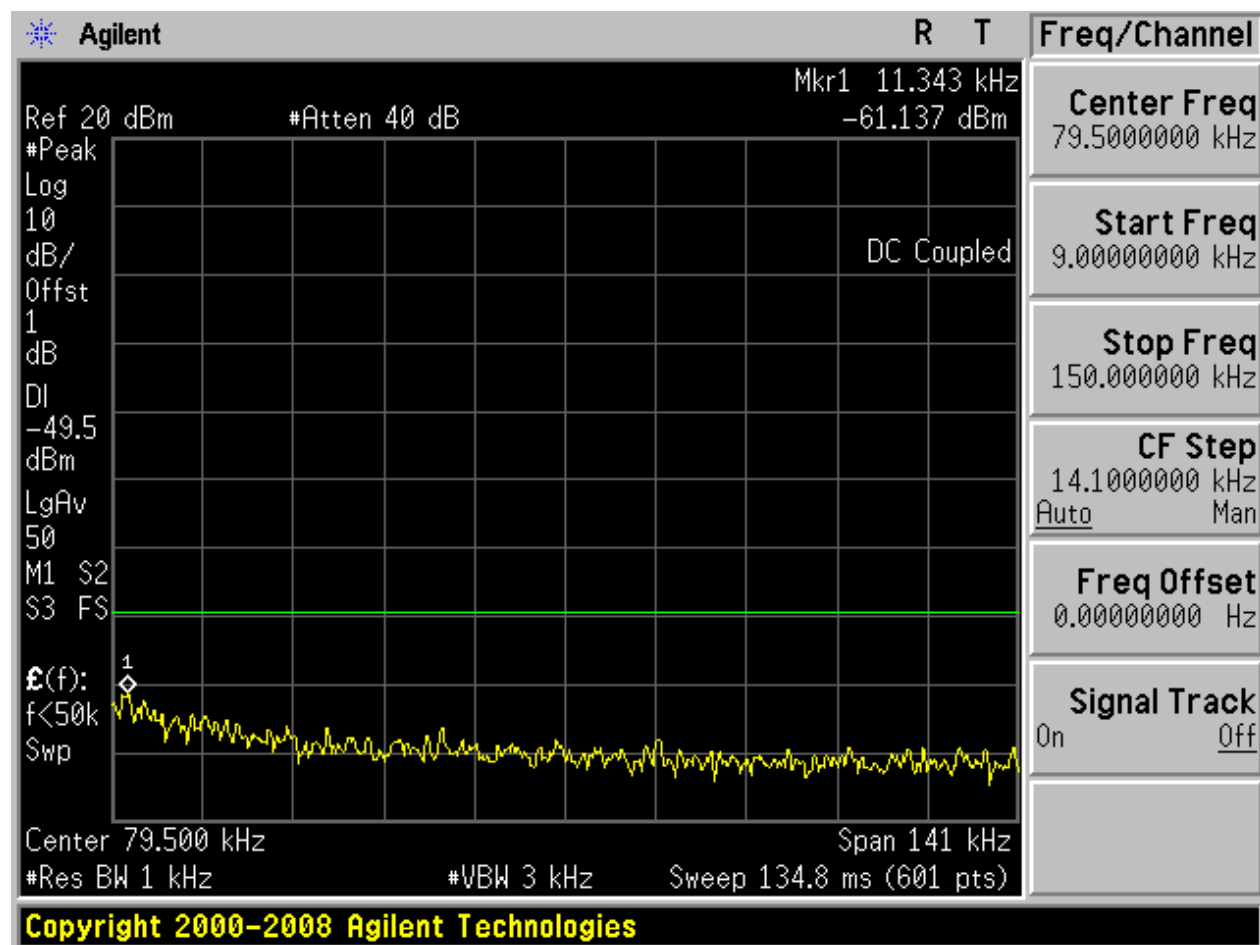
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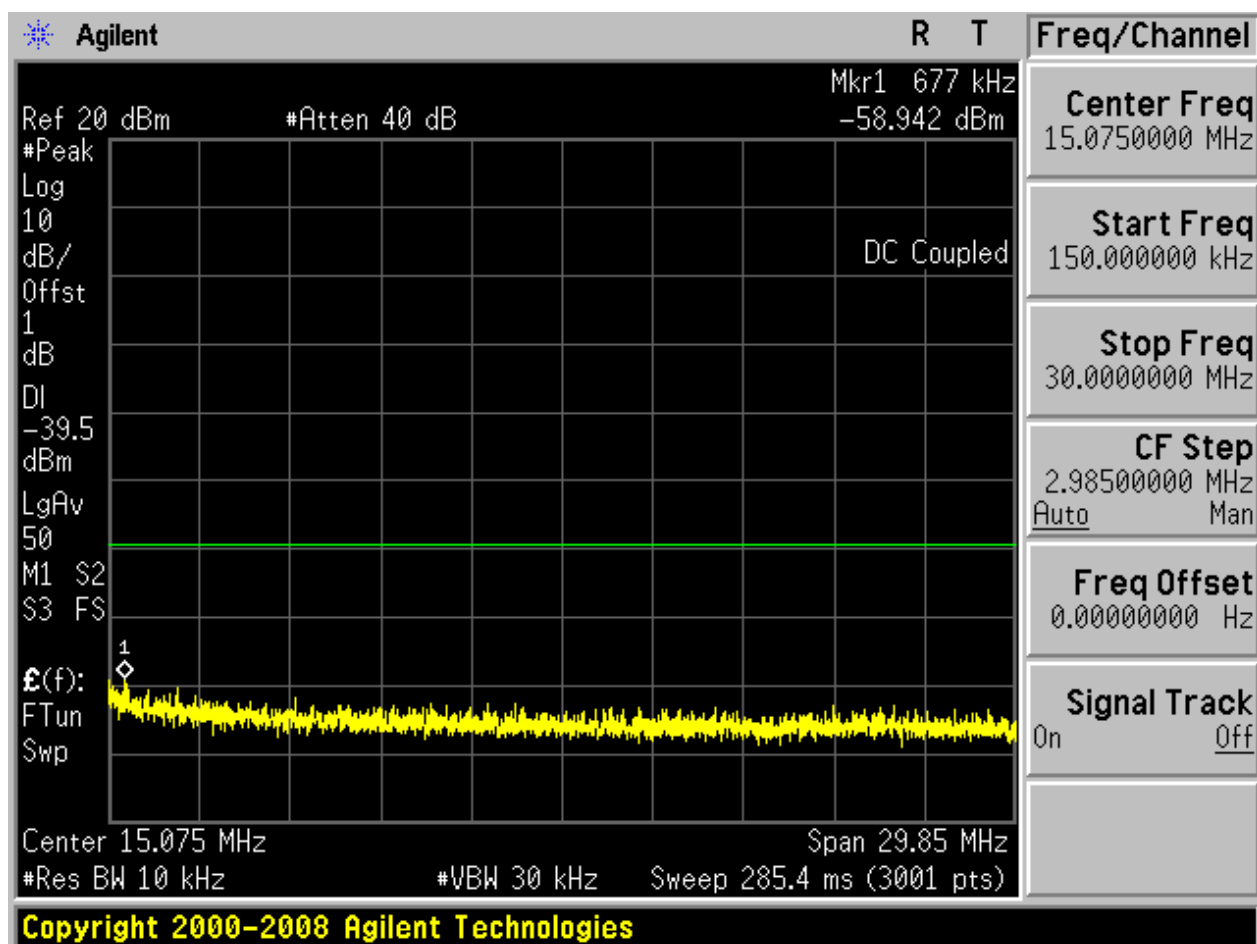
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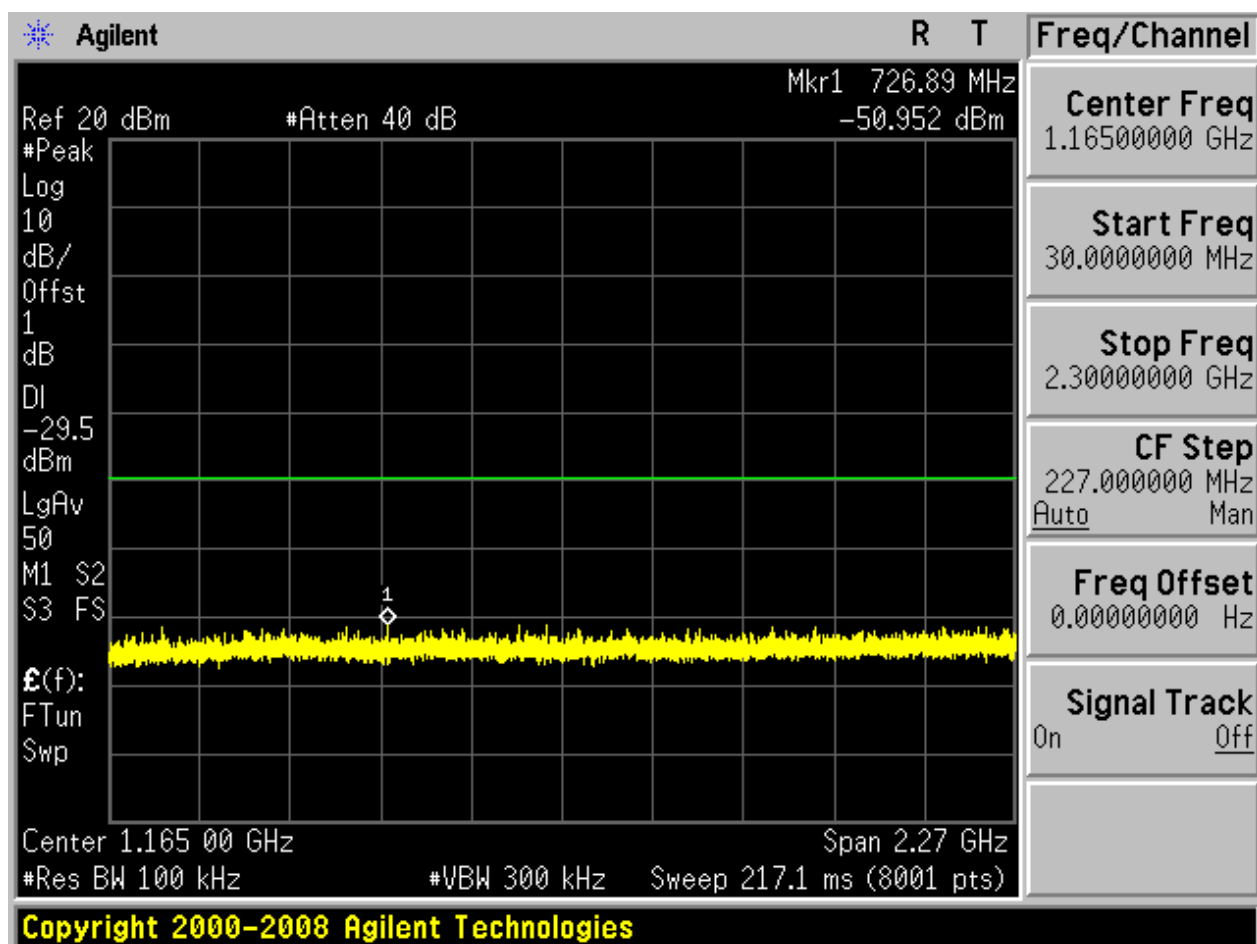


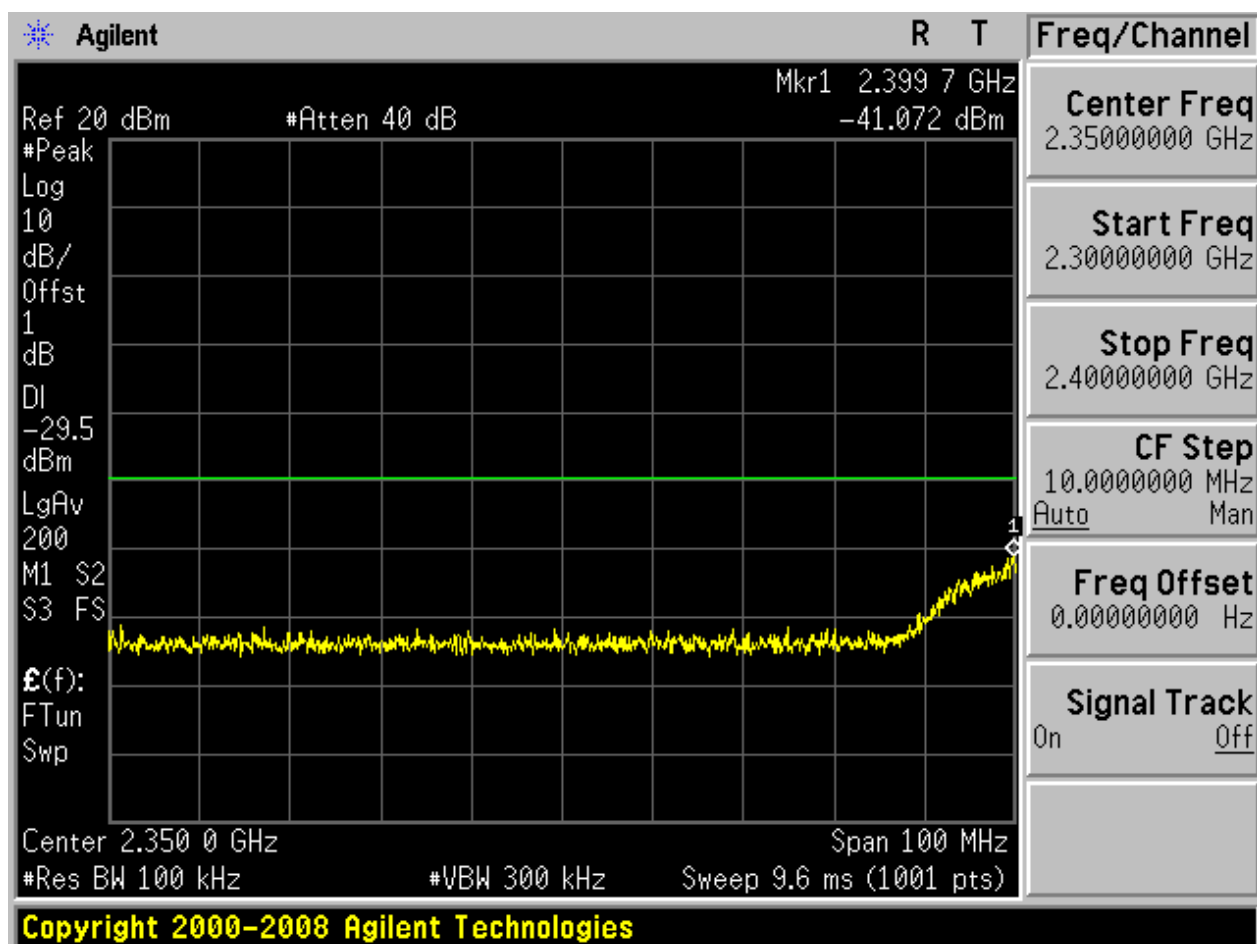


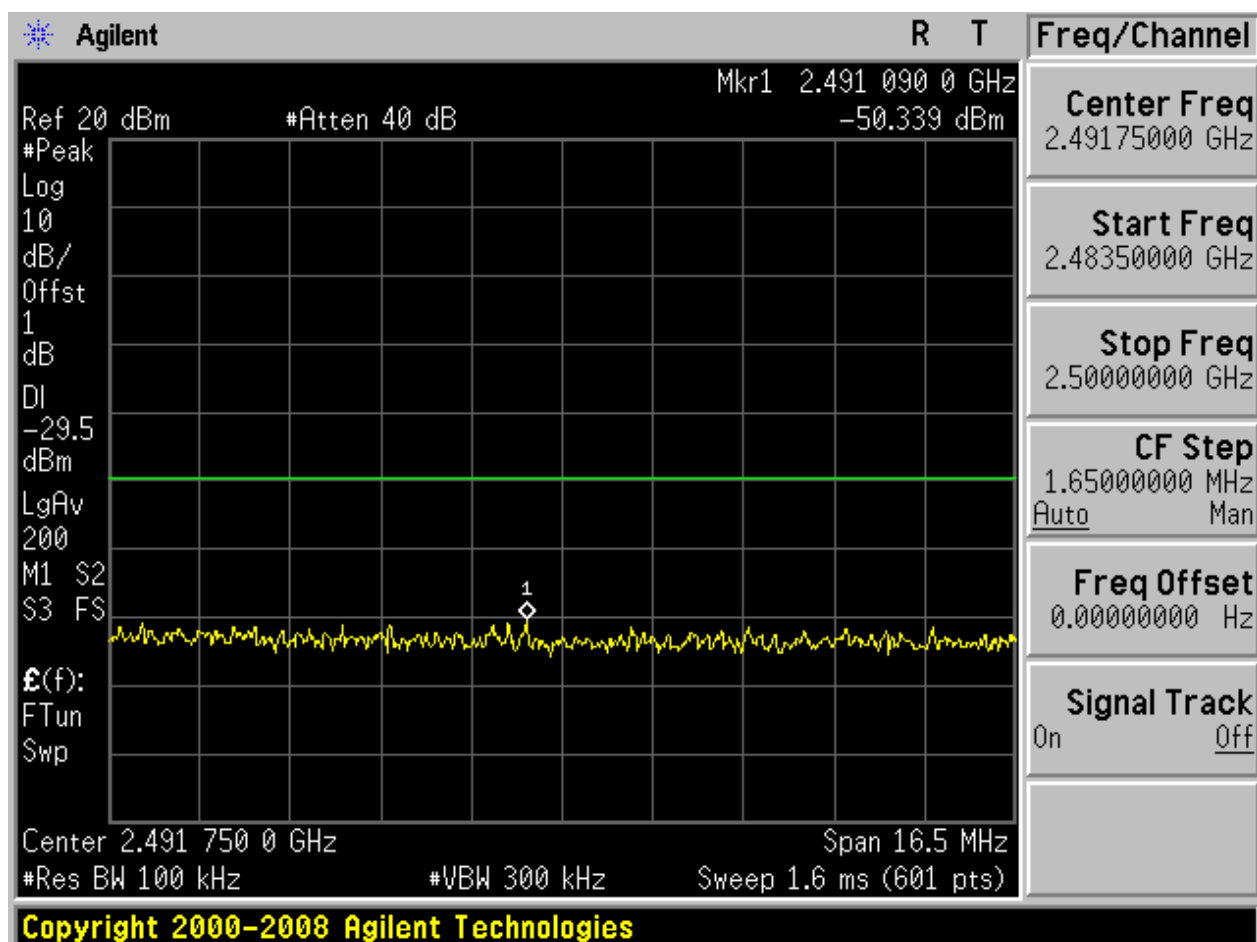
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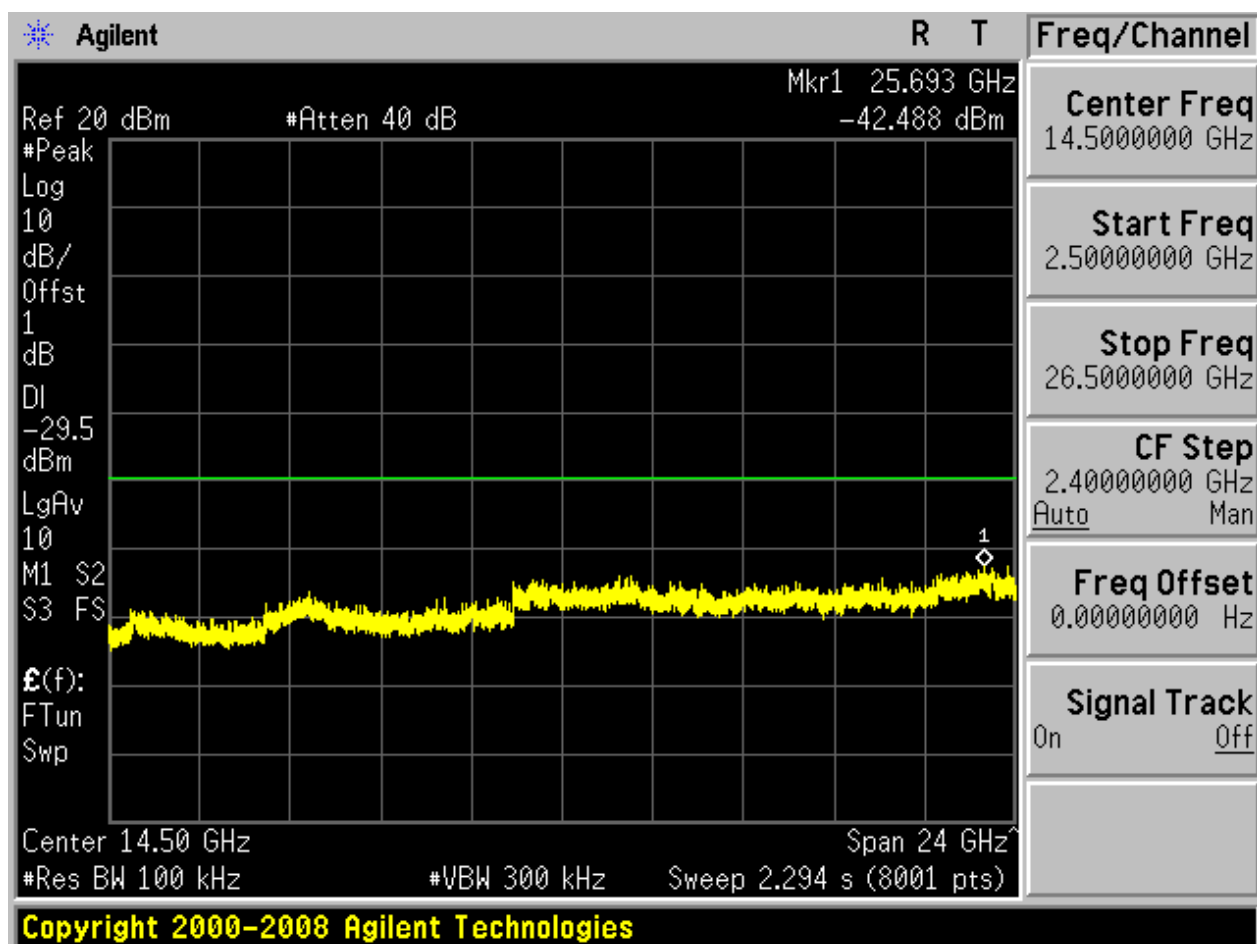






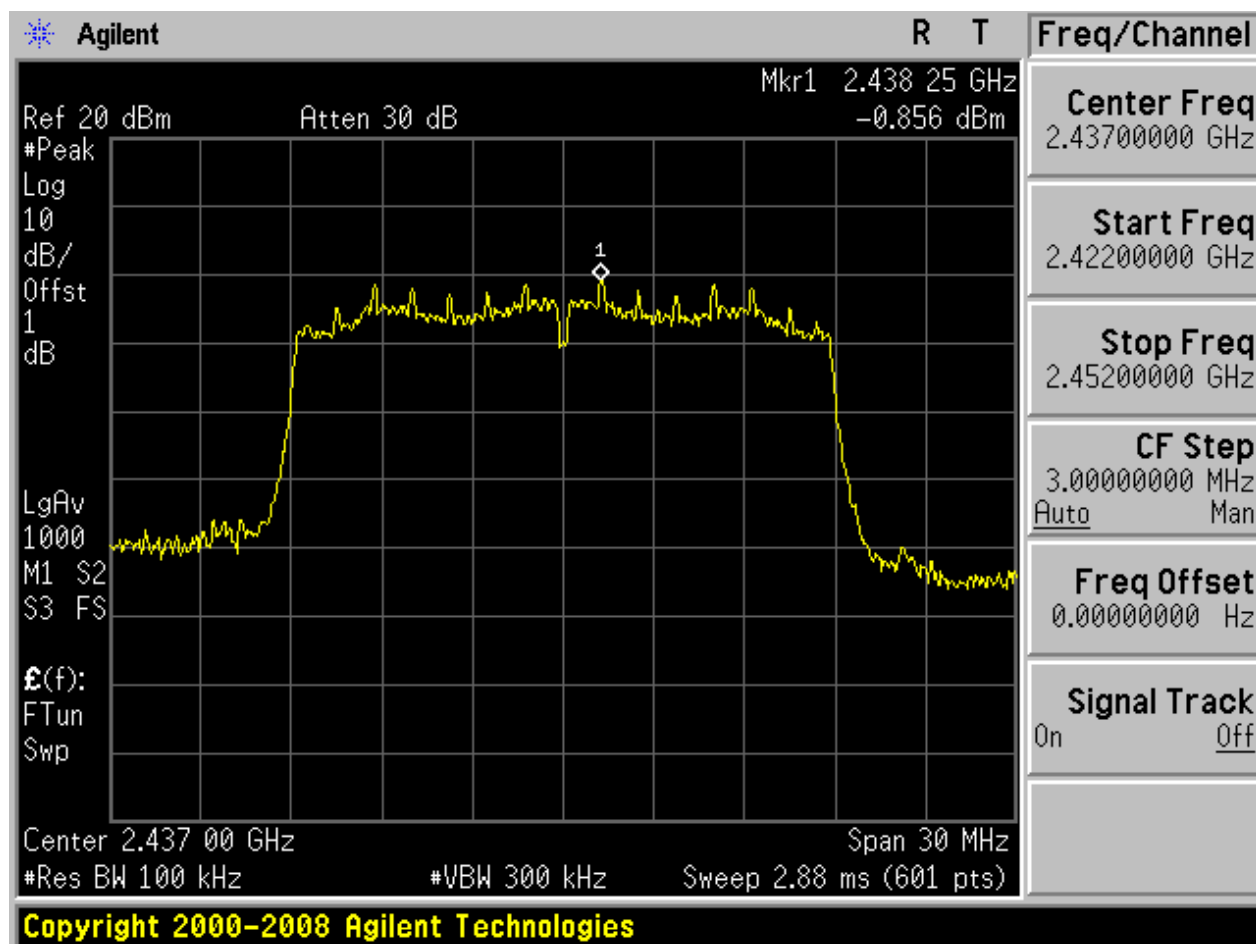






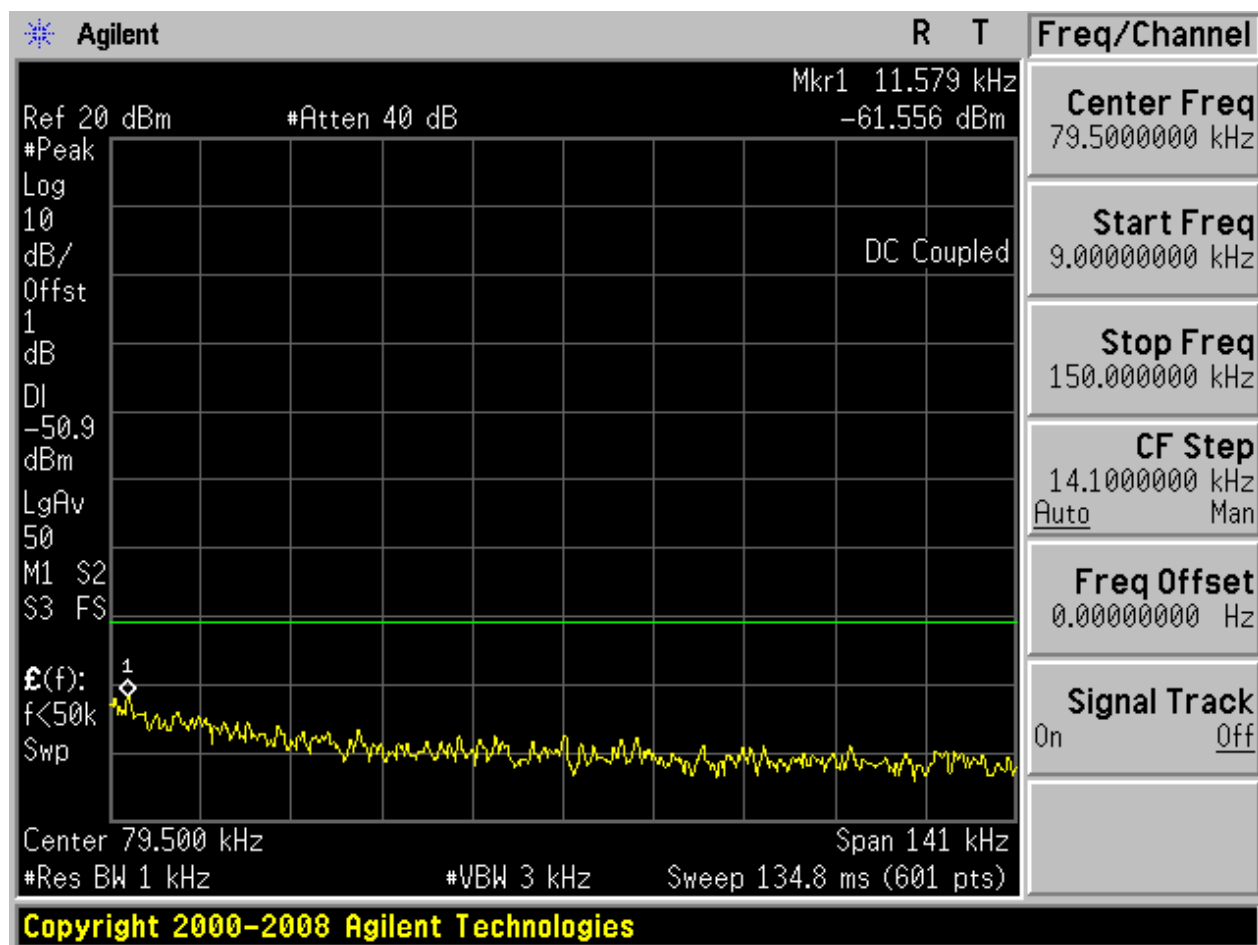
## 2.15 11N20\_M@Ant 1

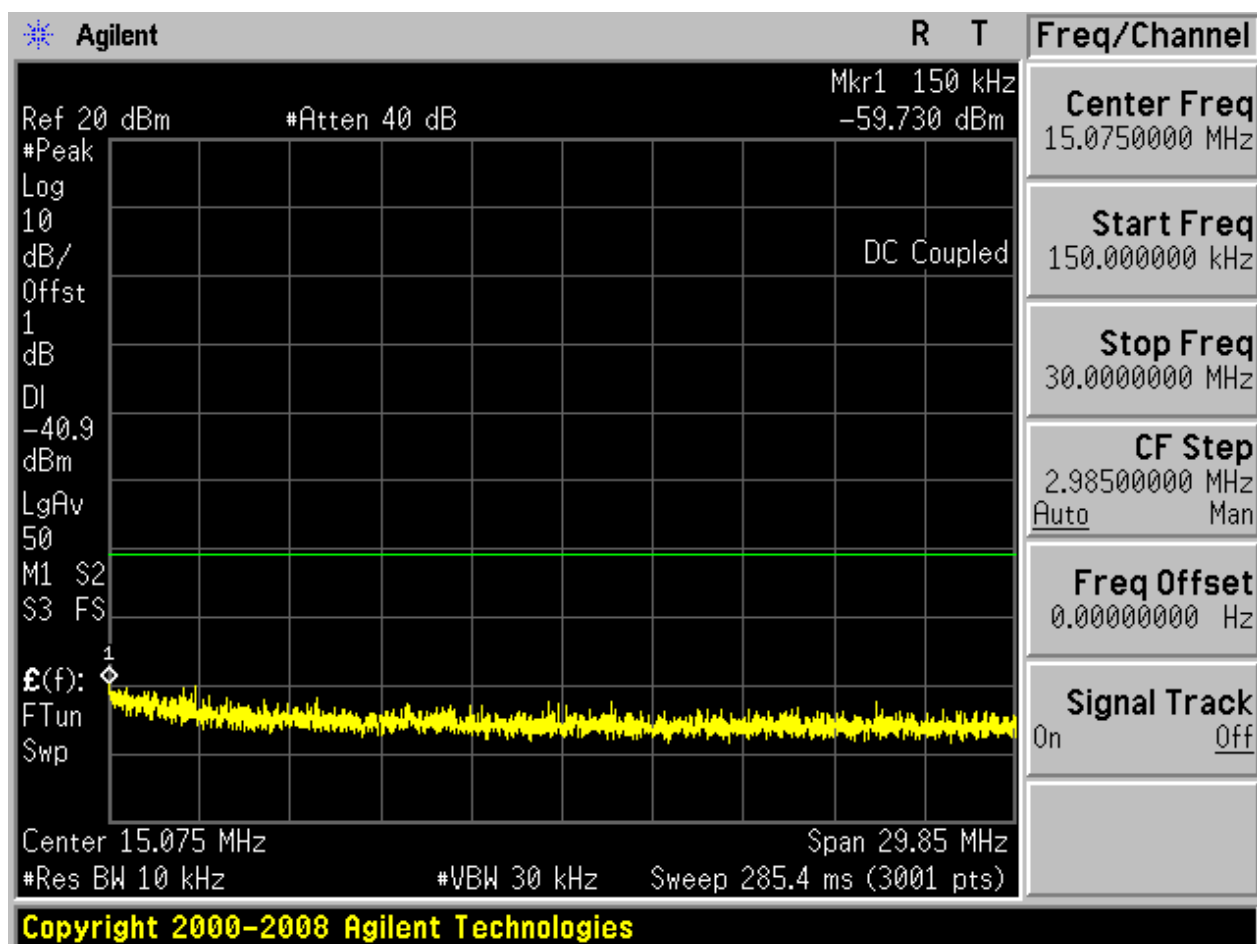
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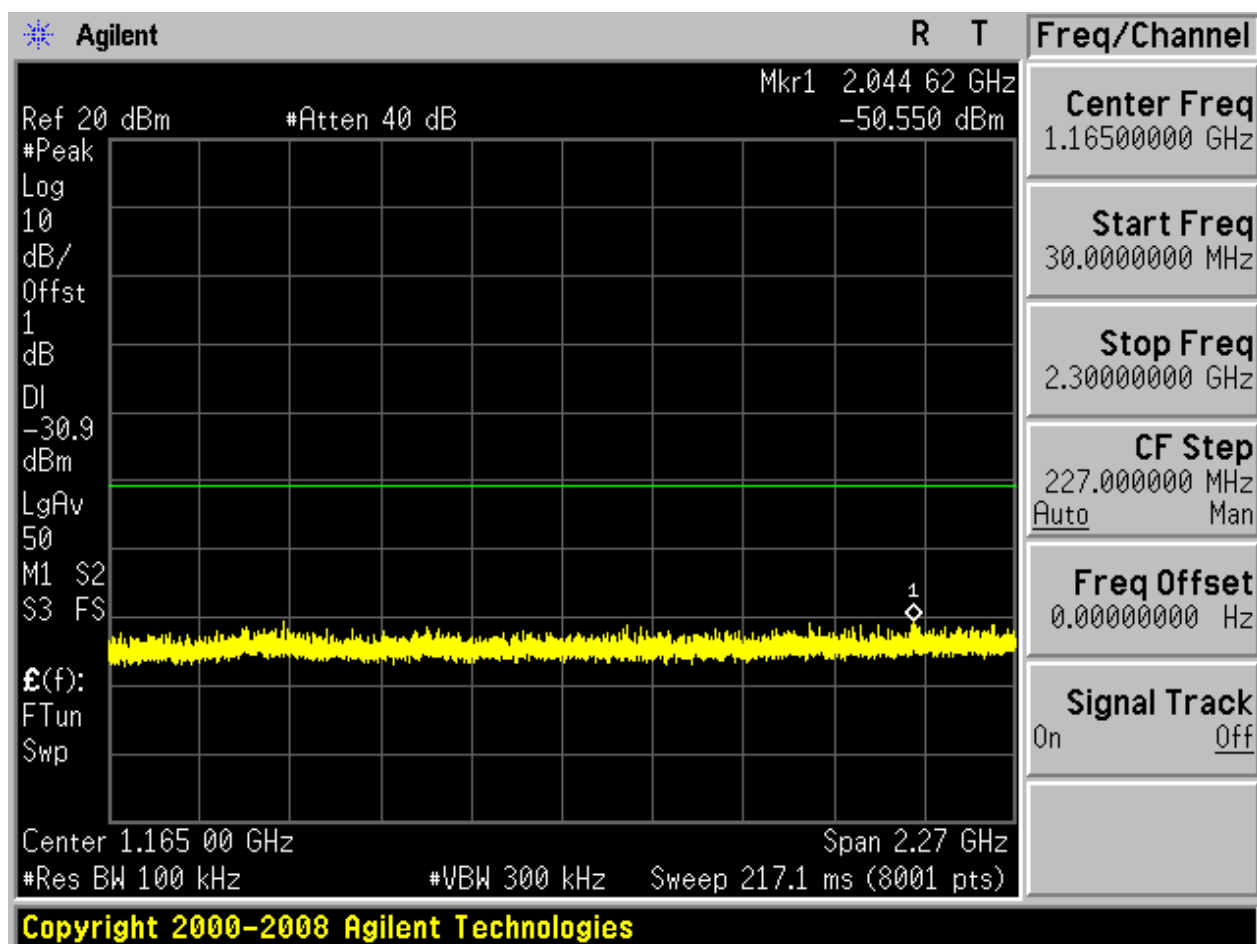


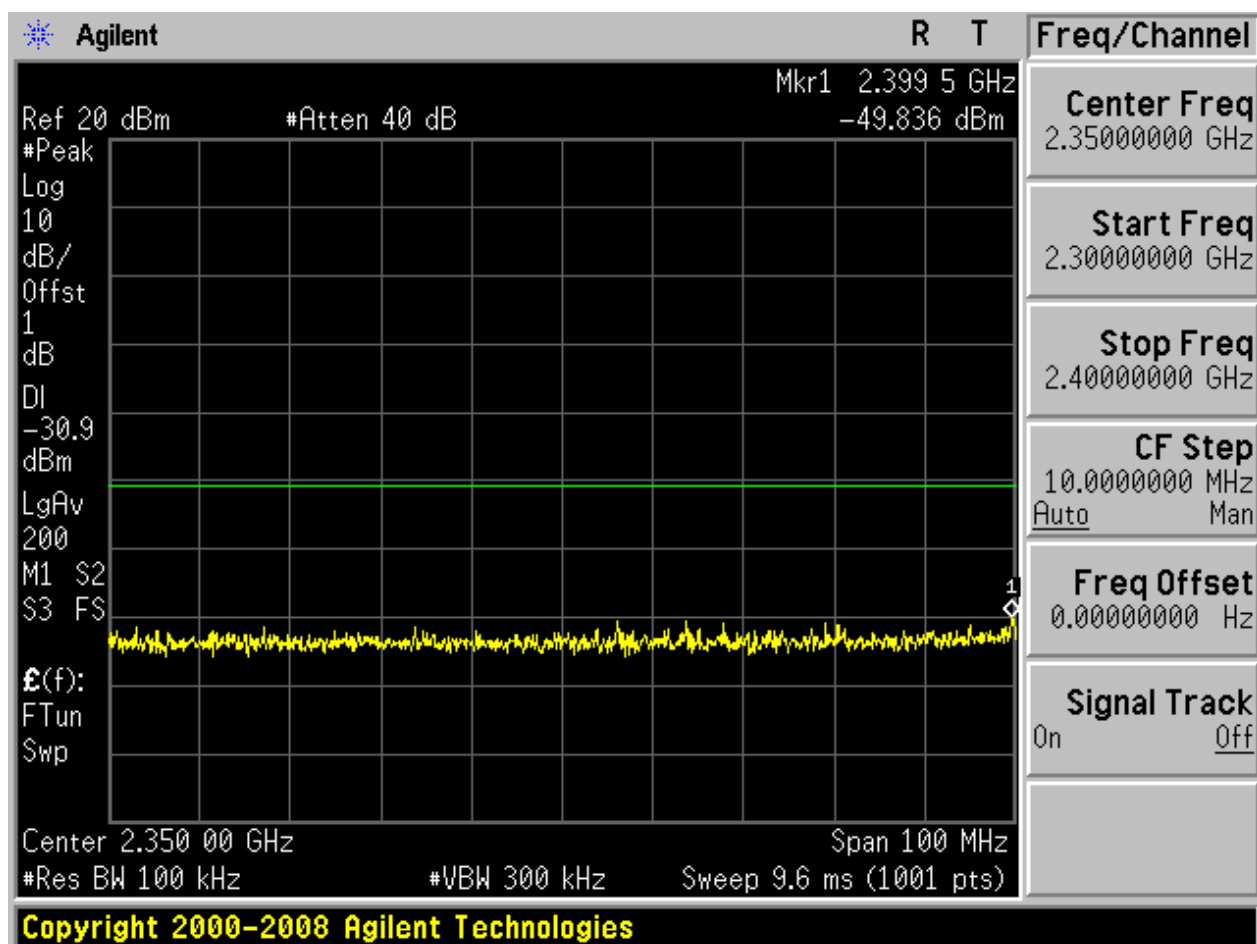


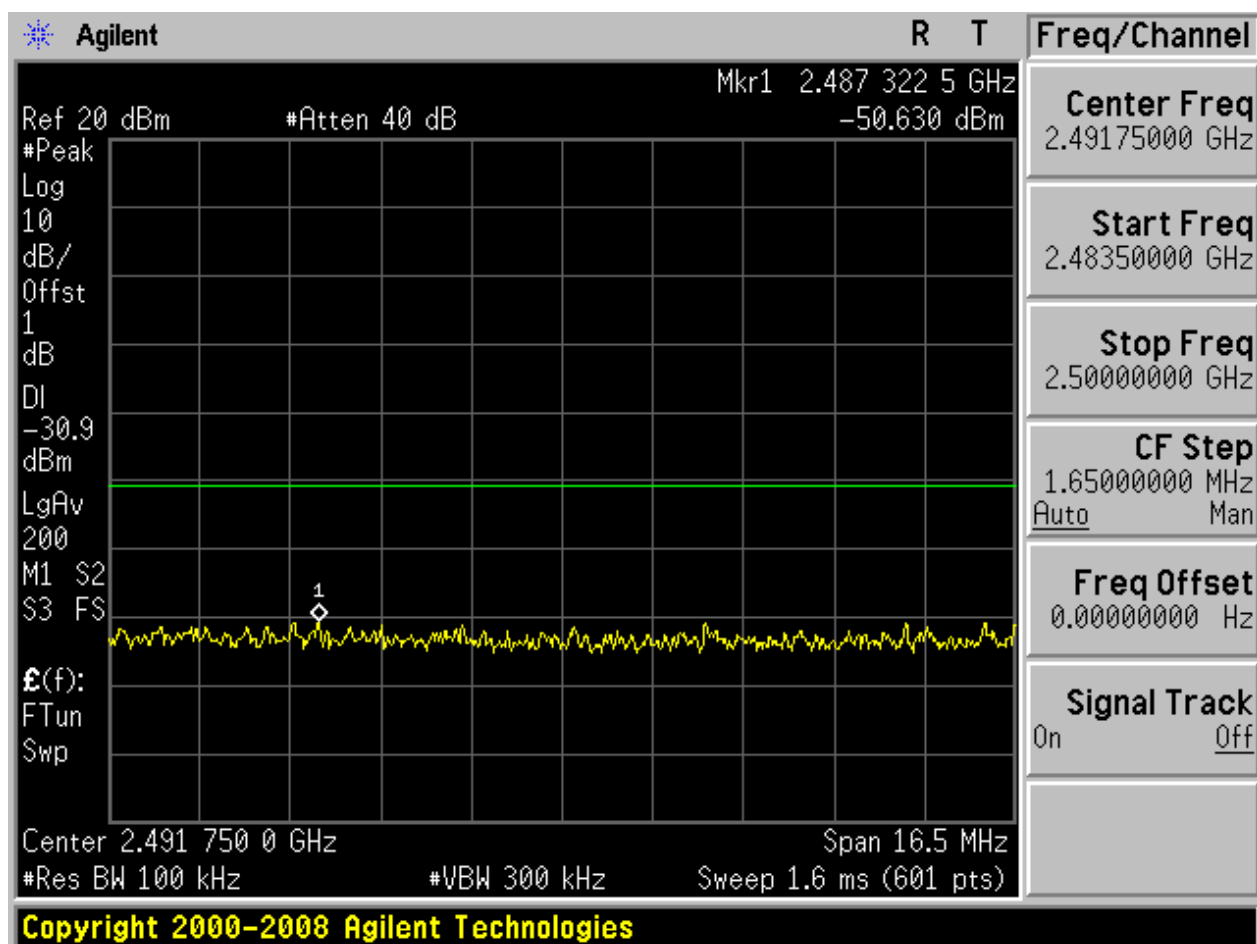
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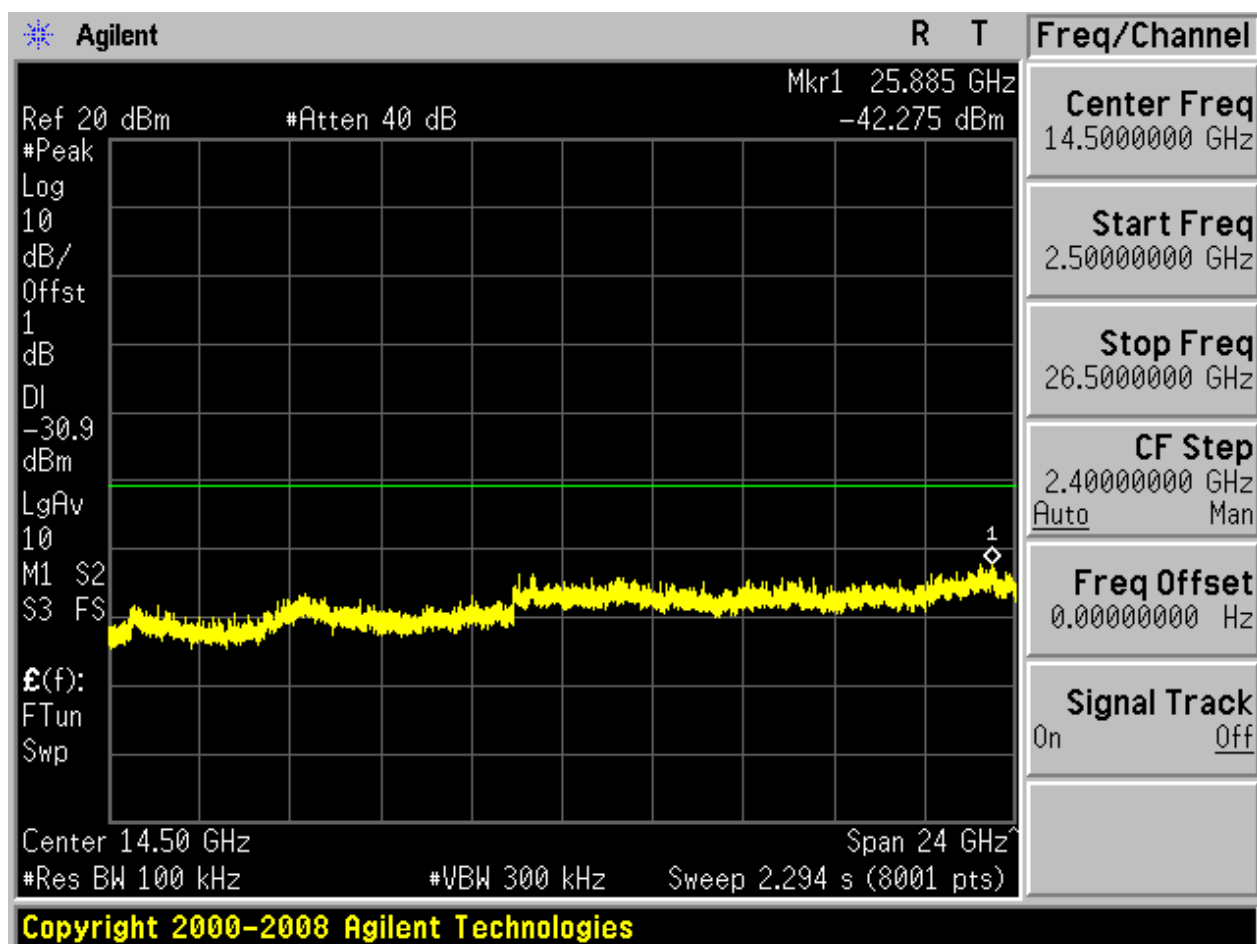








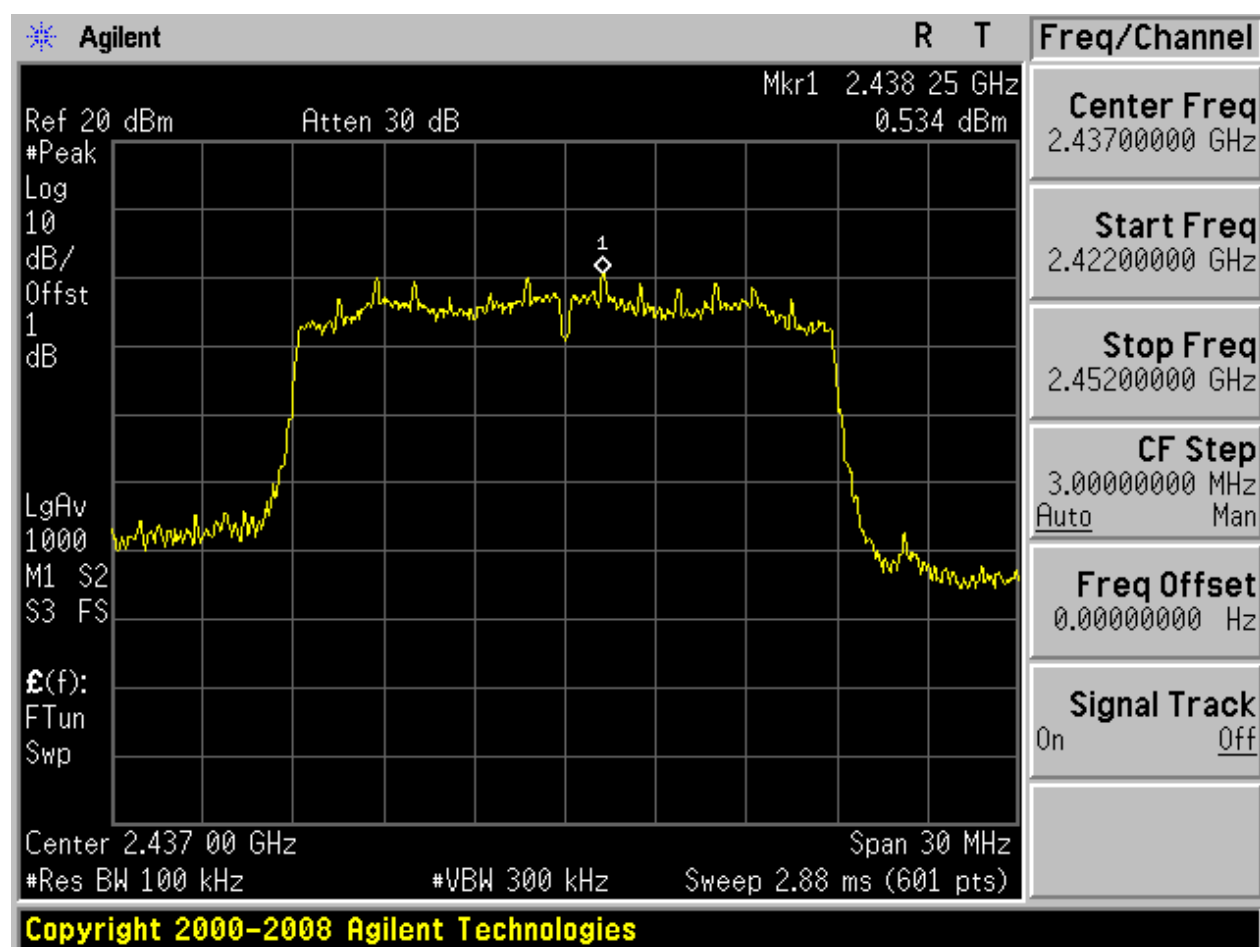






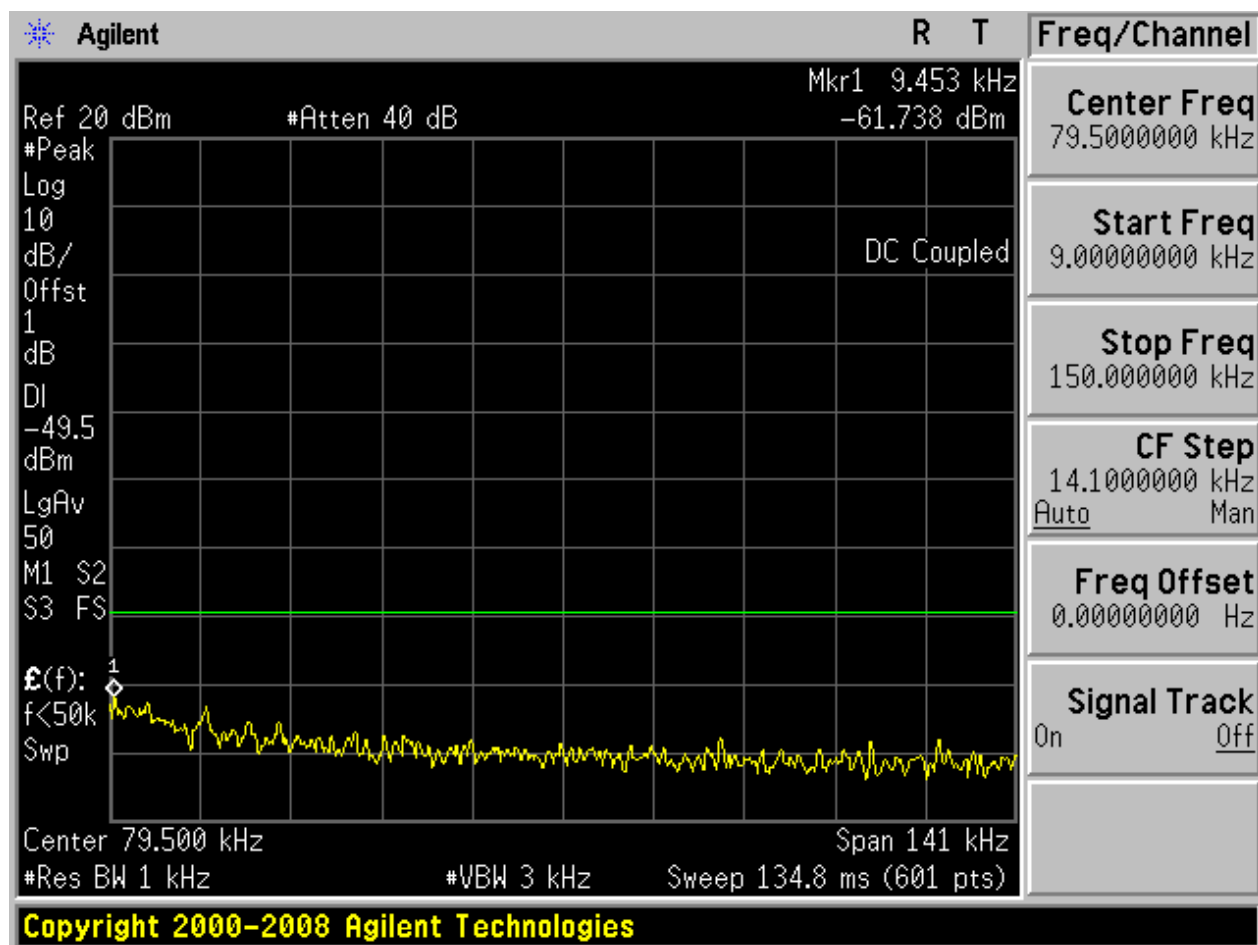
## 2.16 11N20\_M@Ant 2

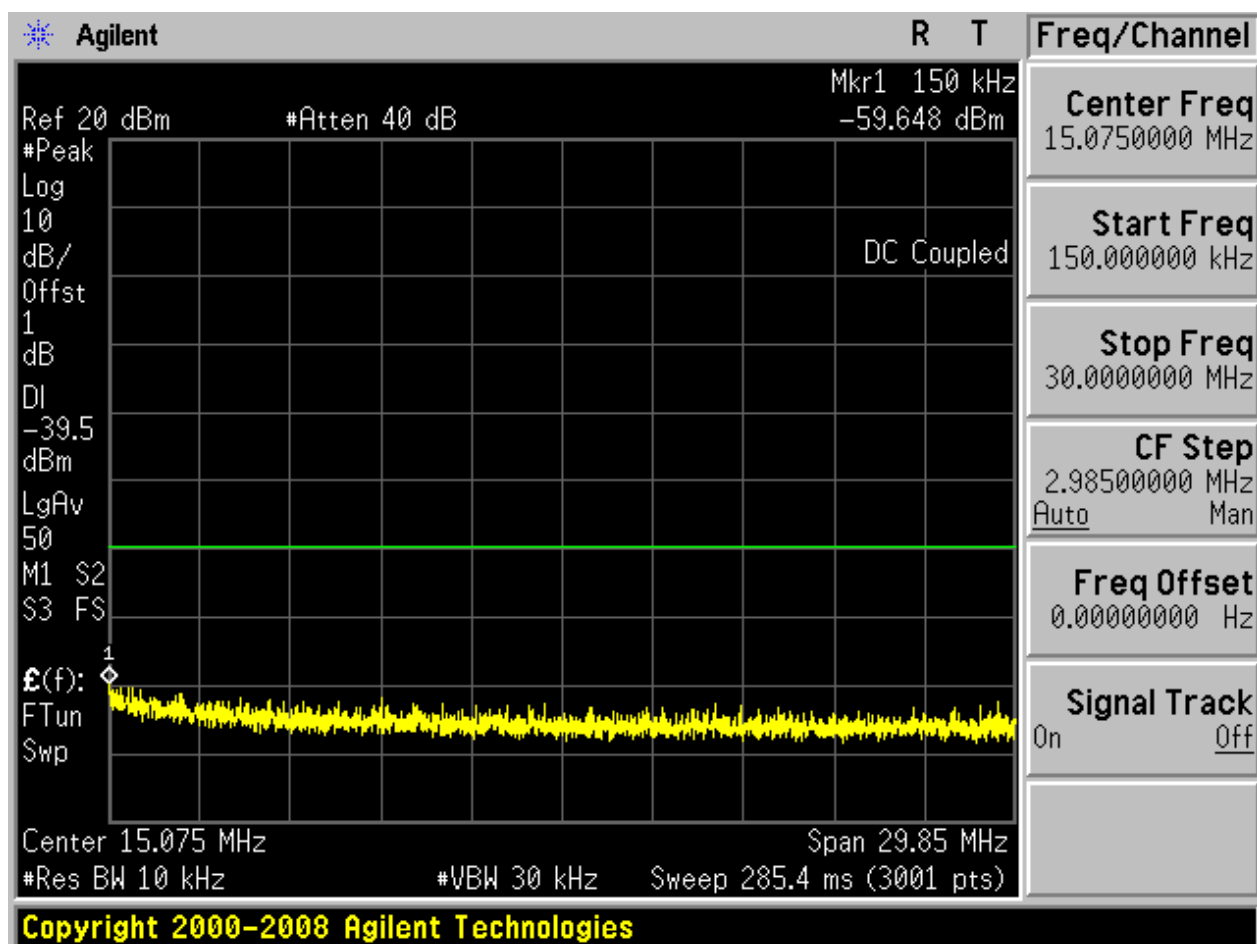
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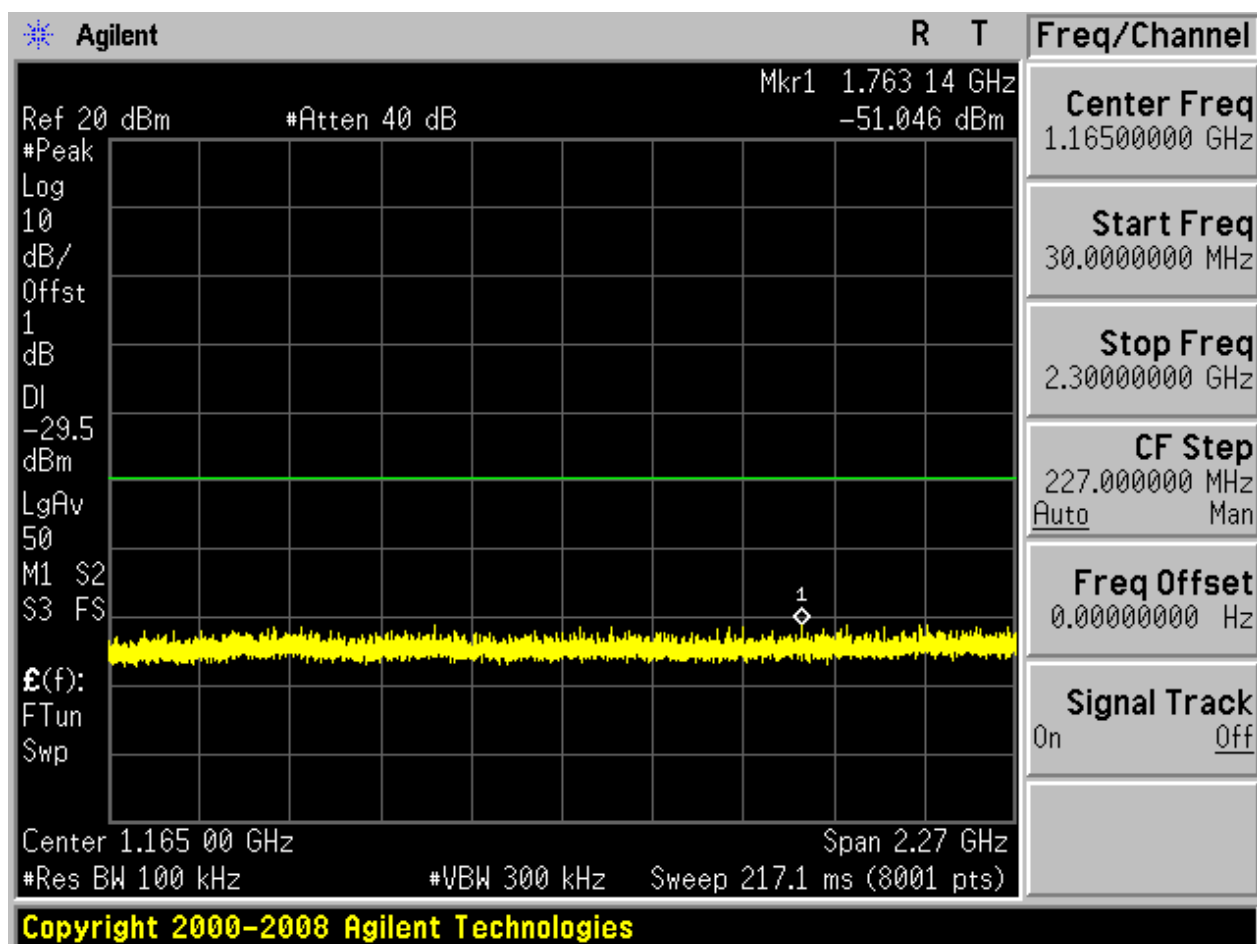


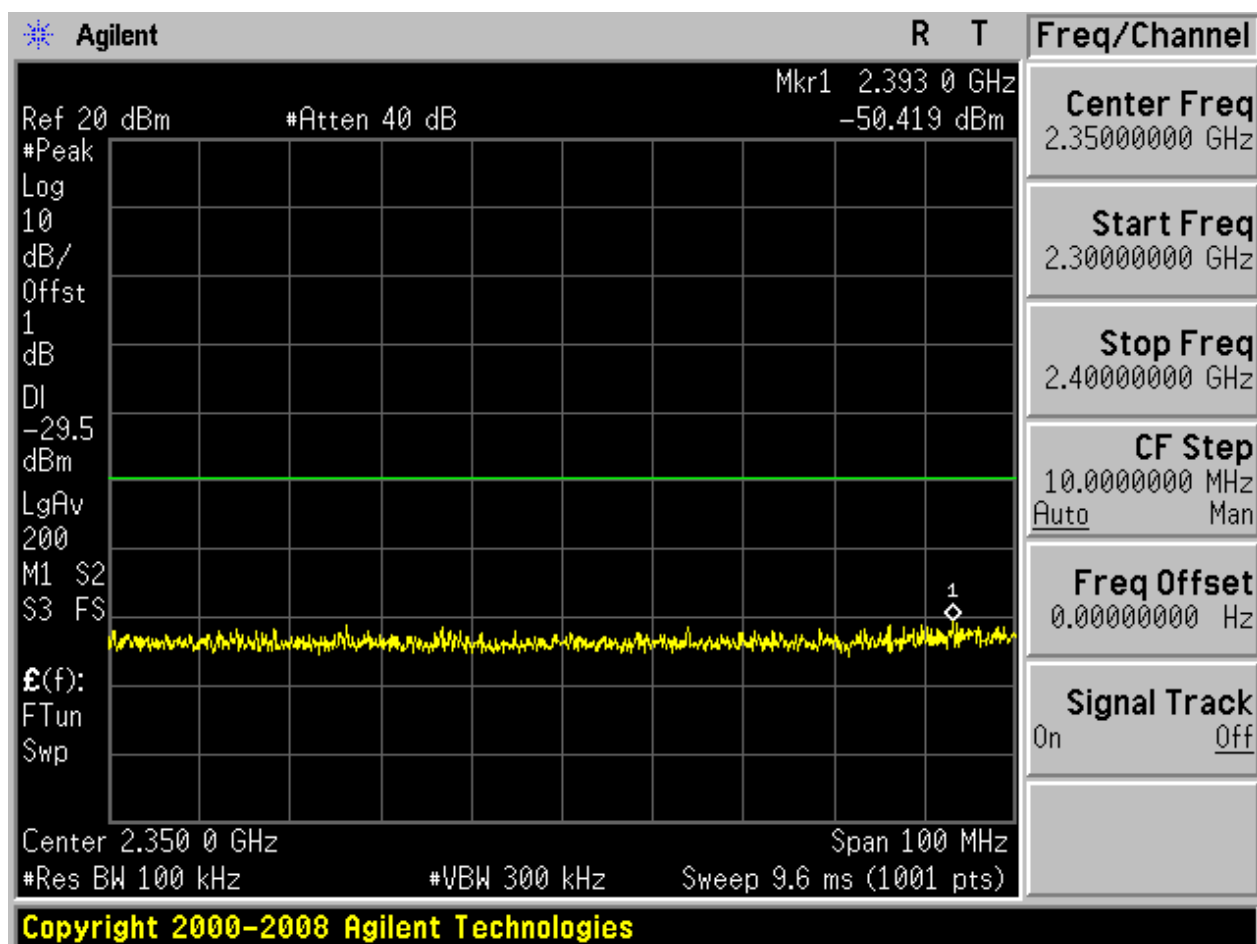


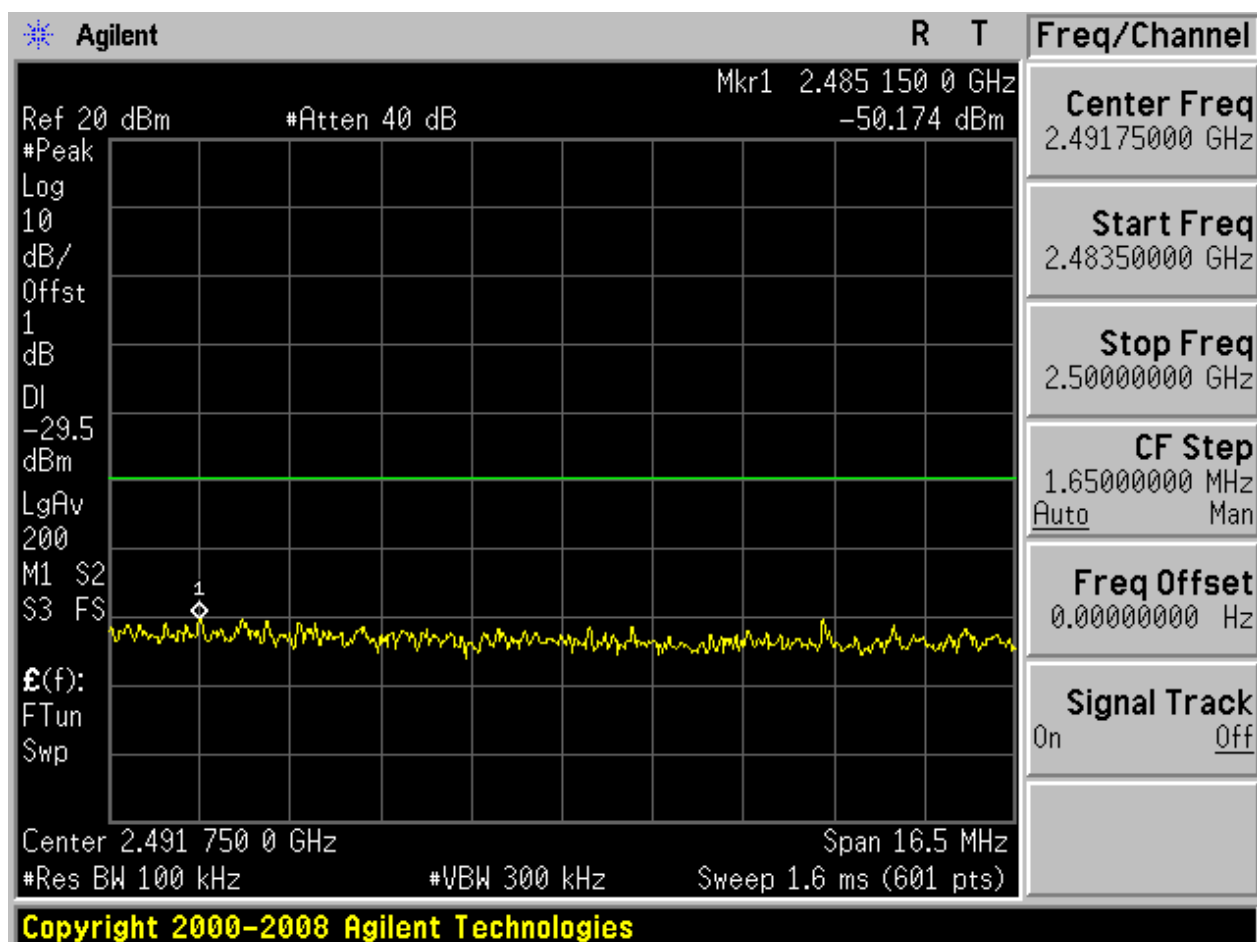
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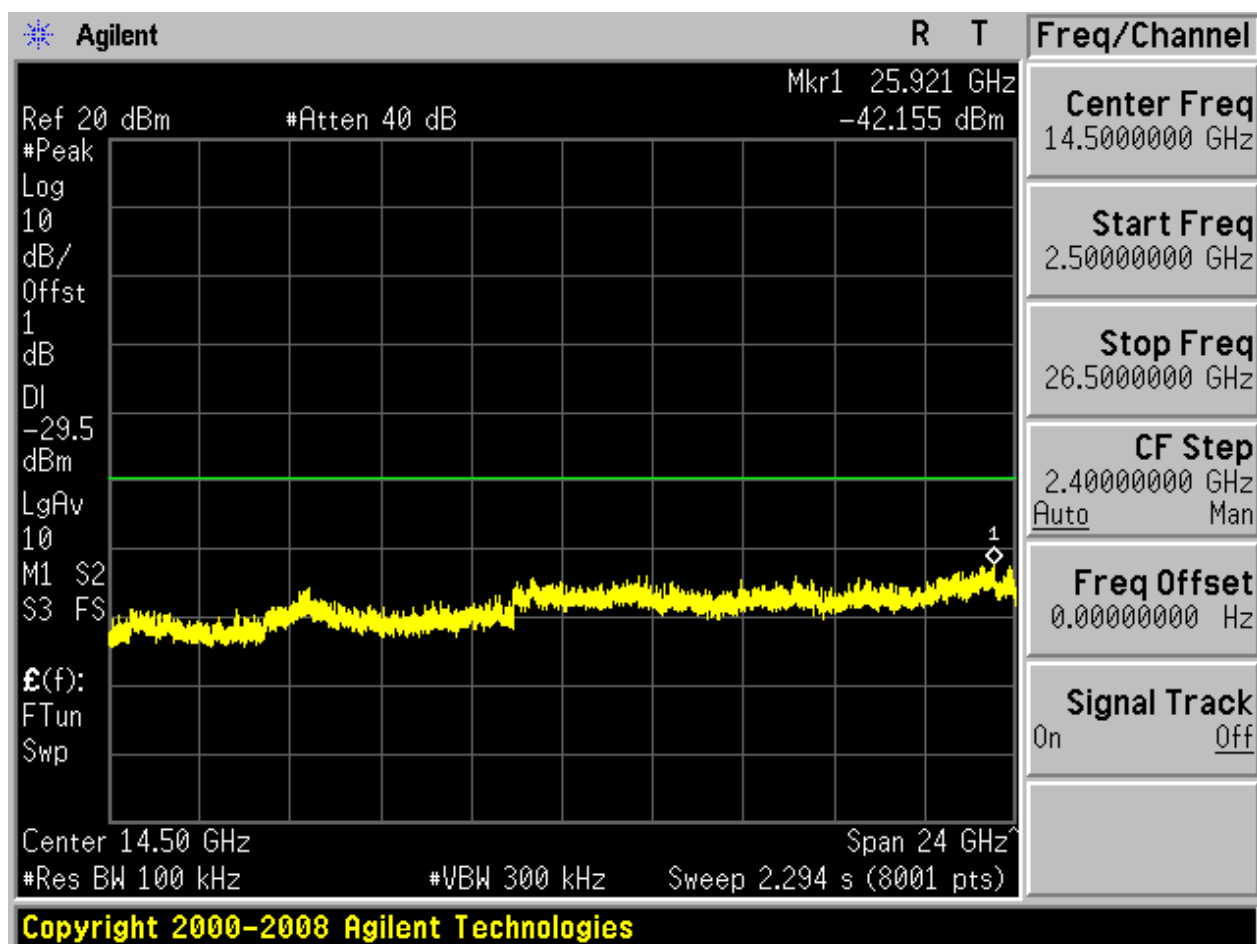






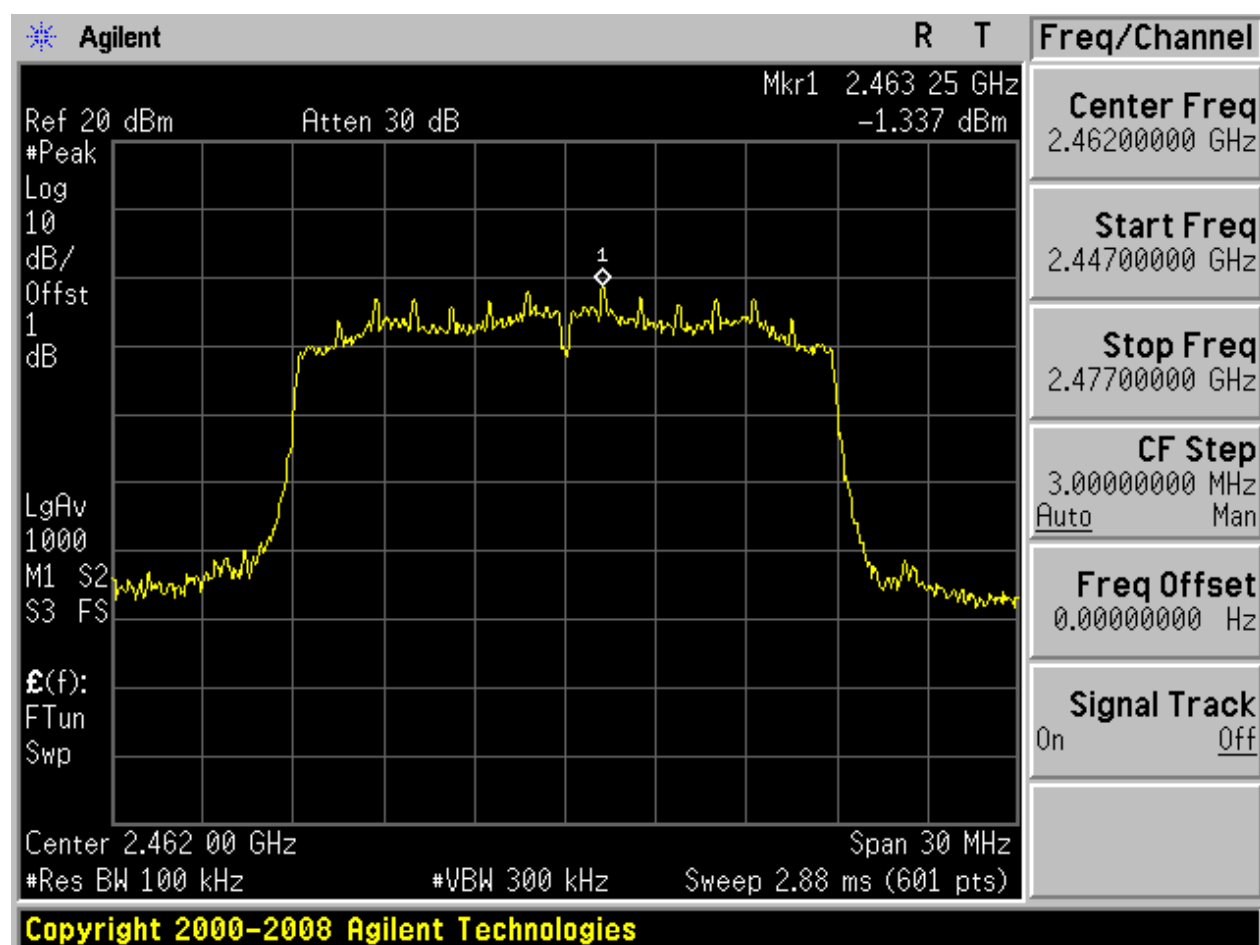




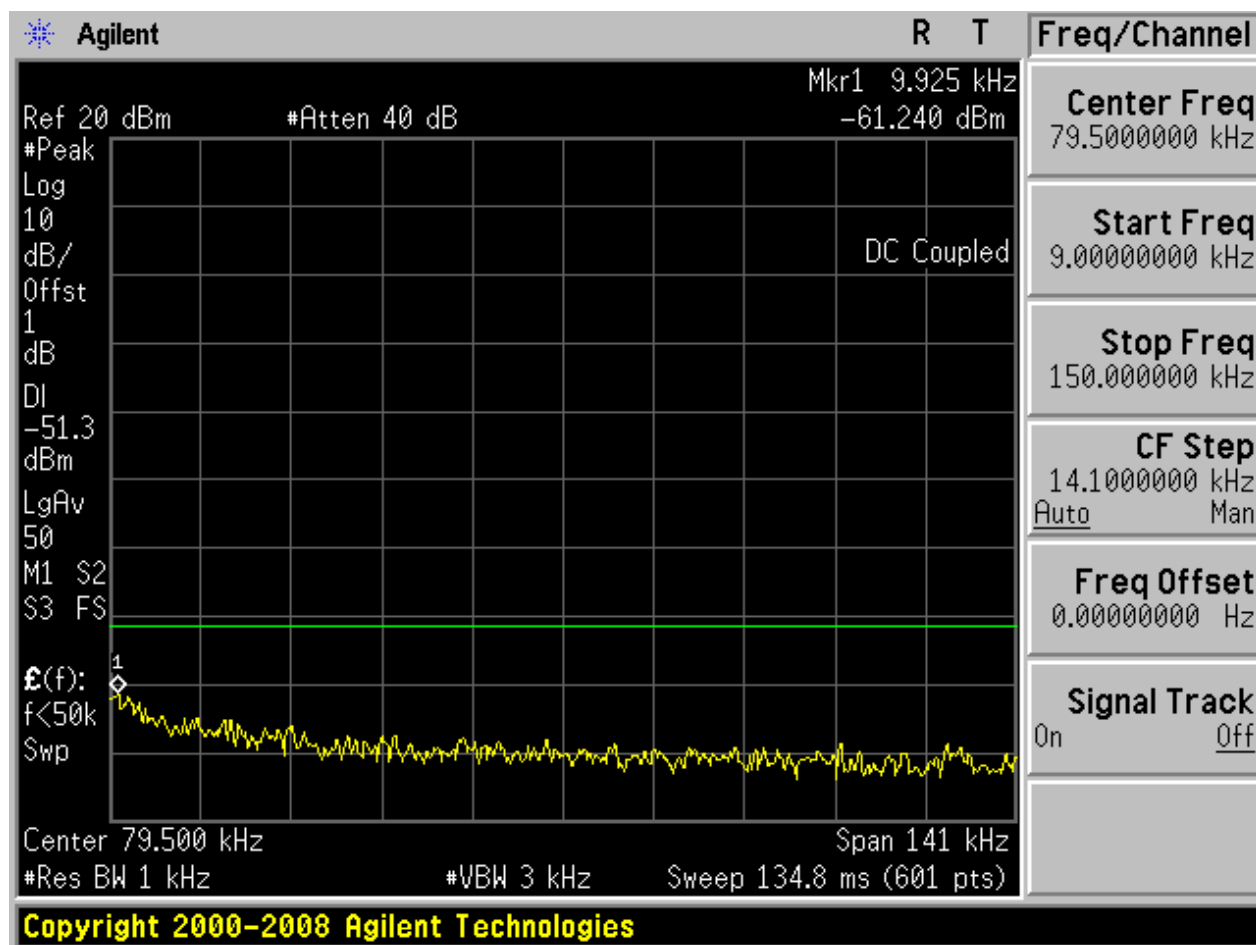


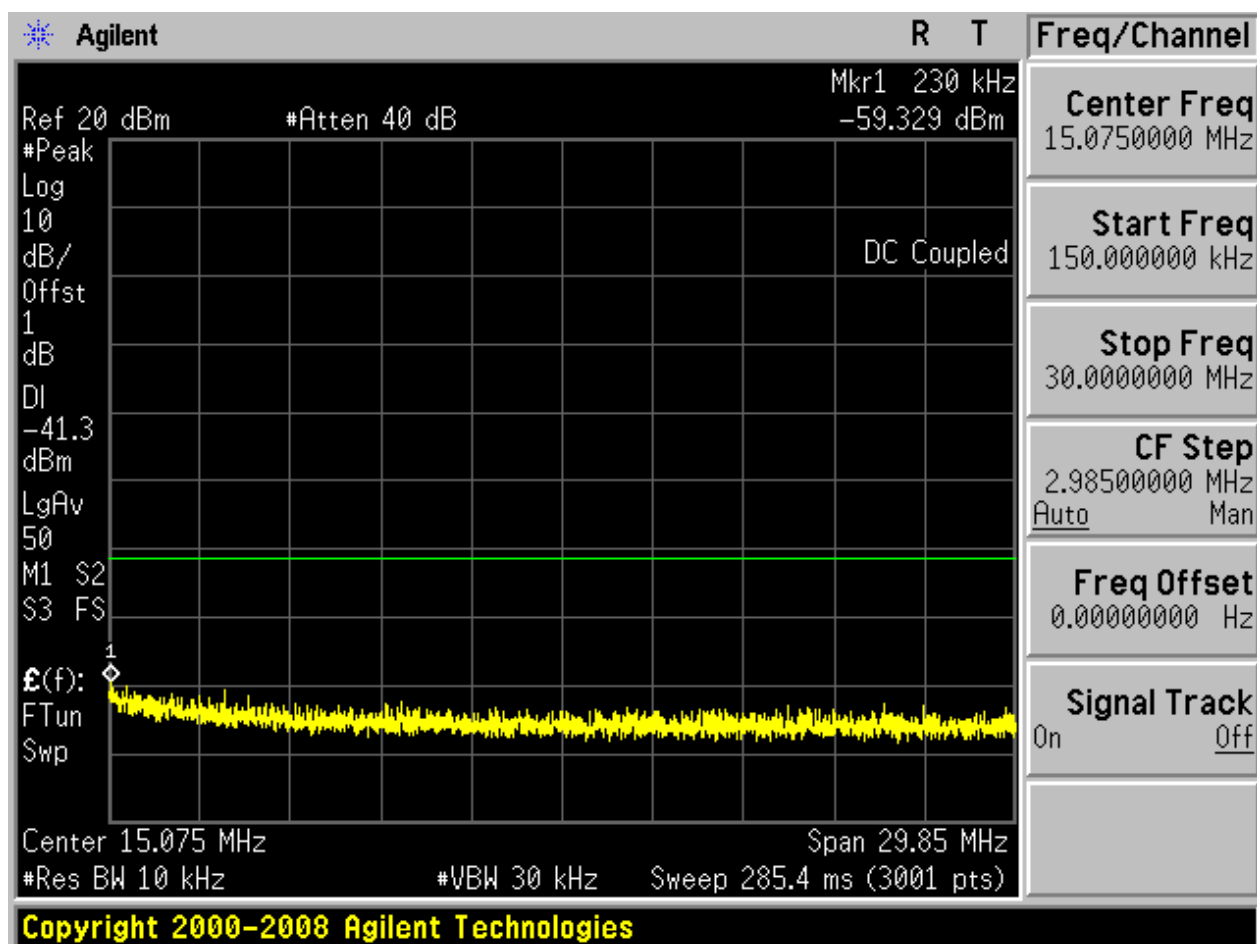
## 2.17 11N20\_H@Ant 1

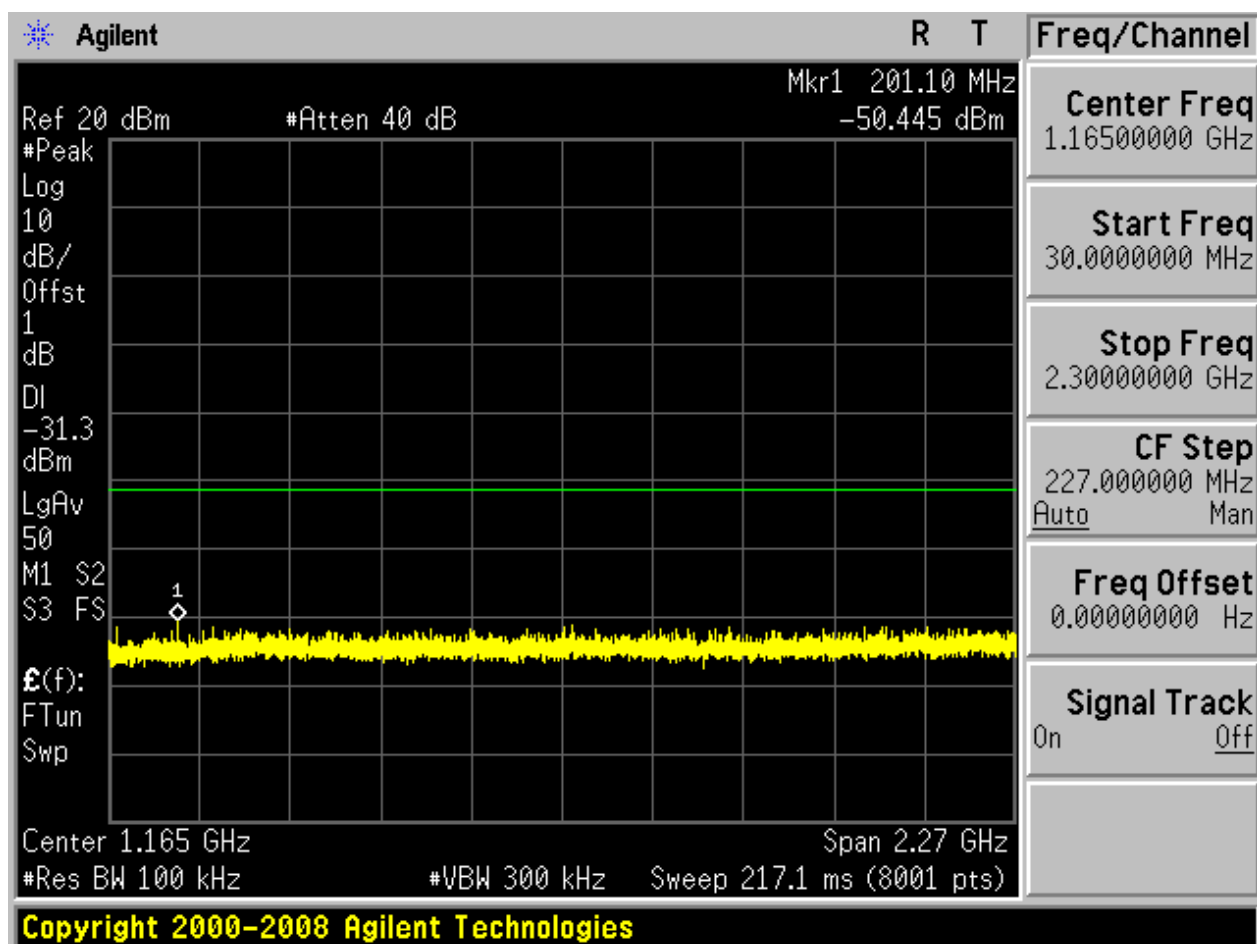
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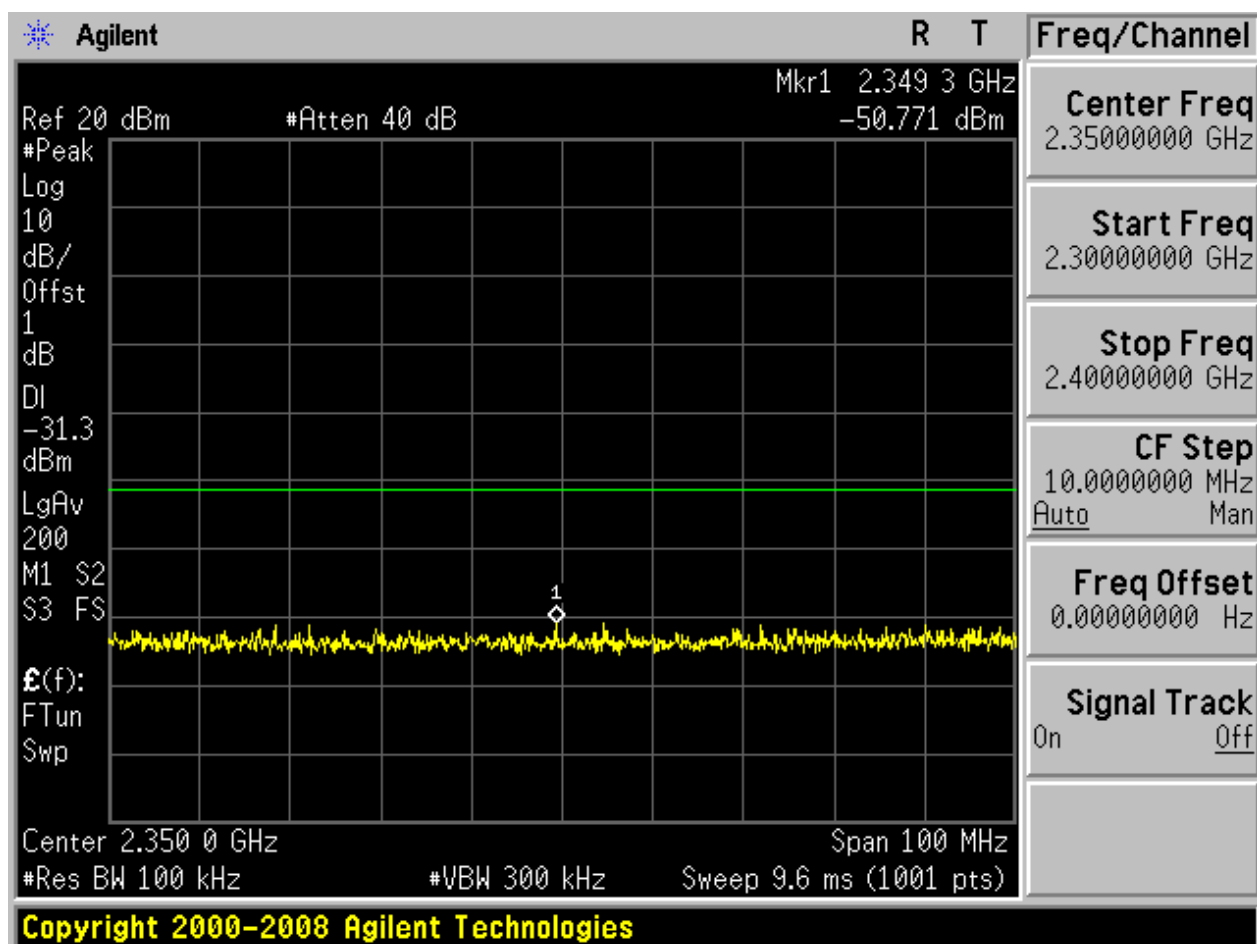


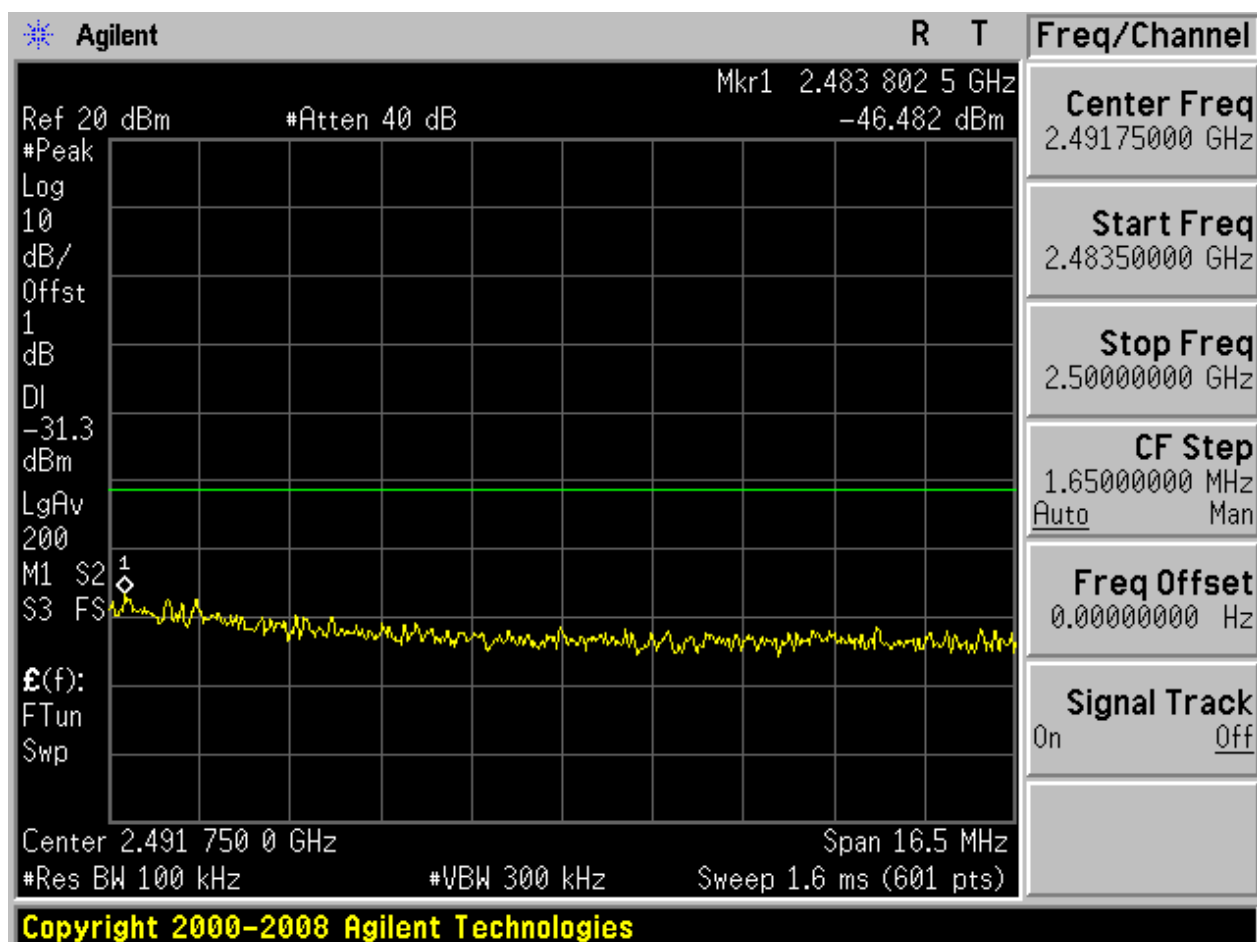
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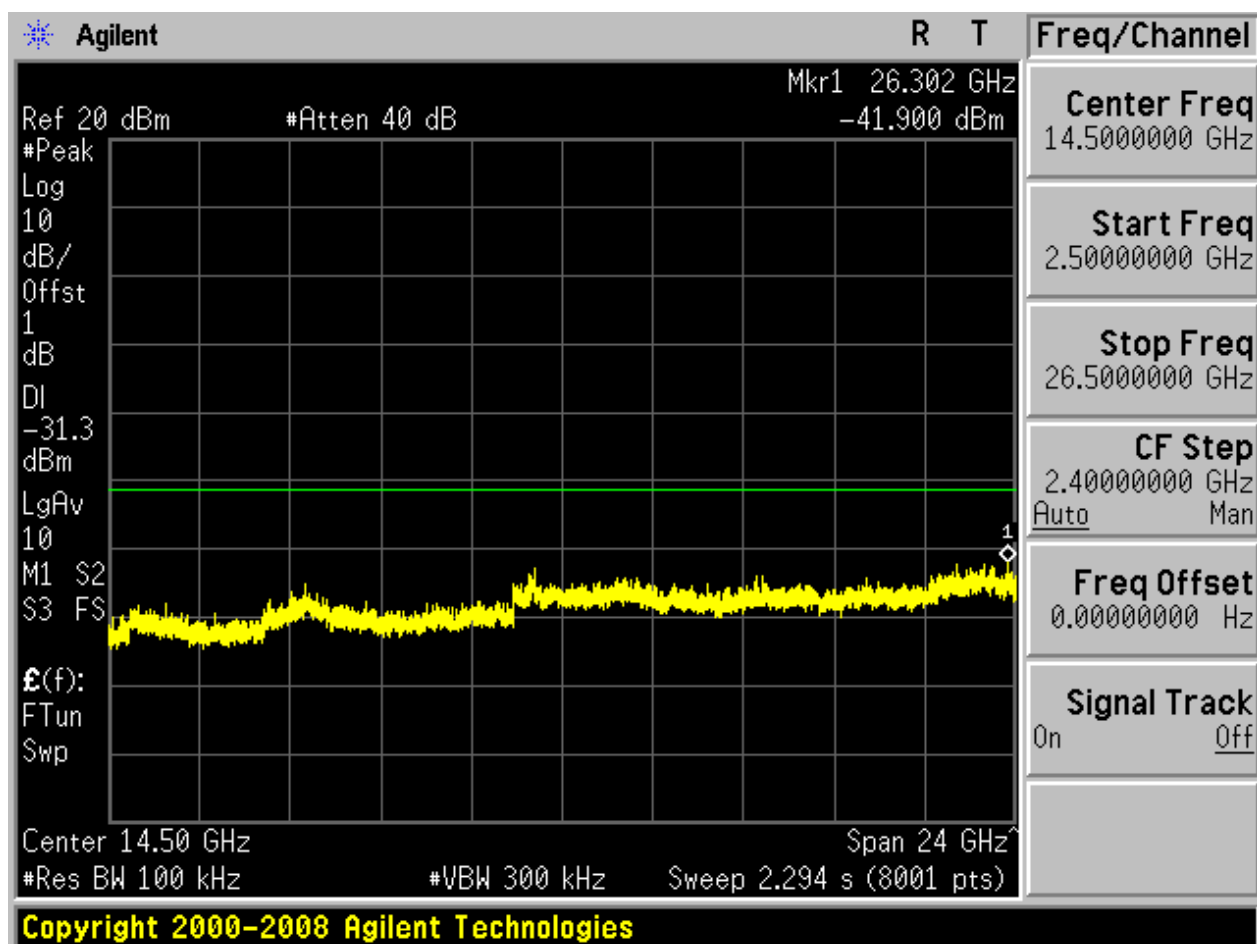






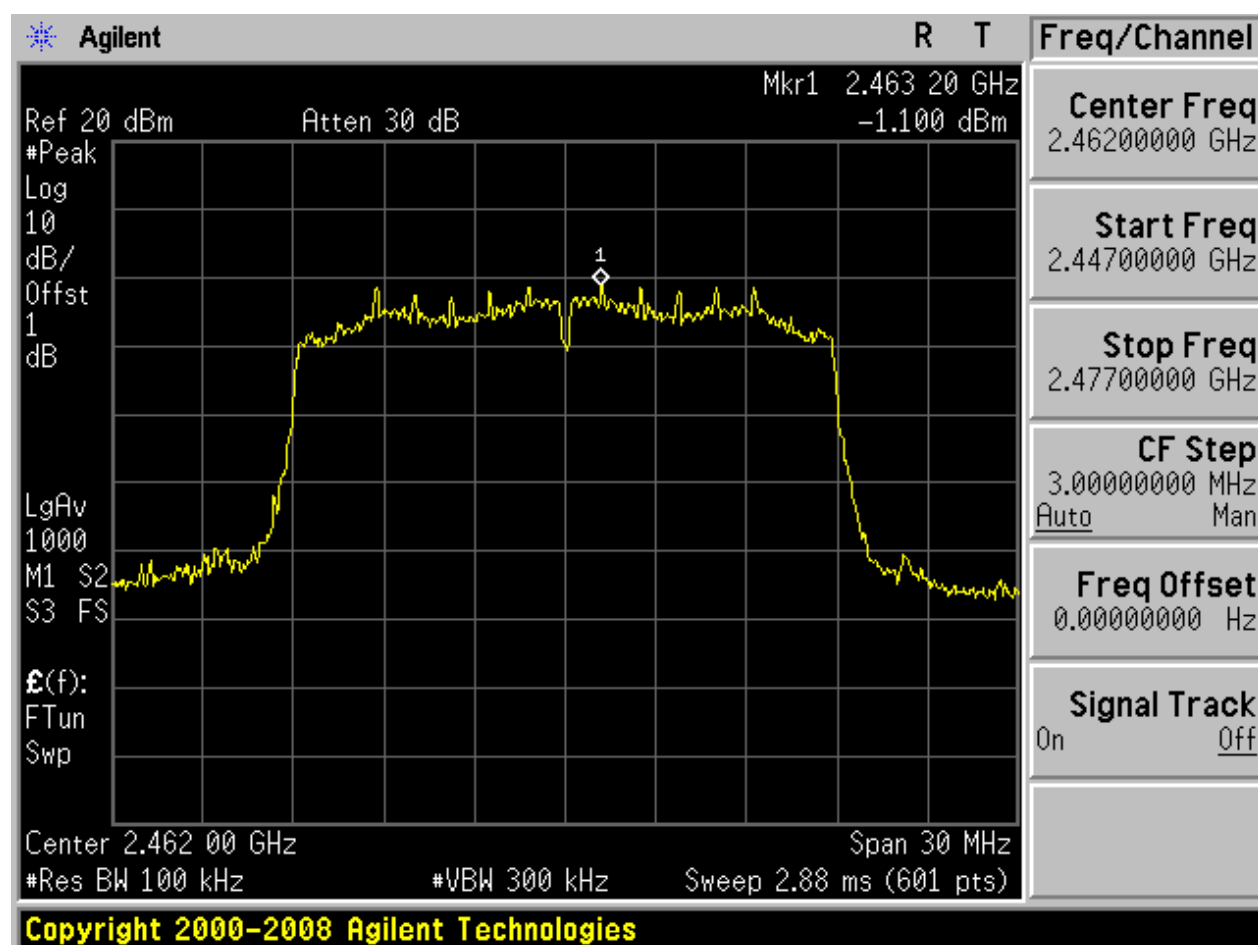






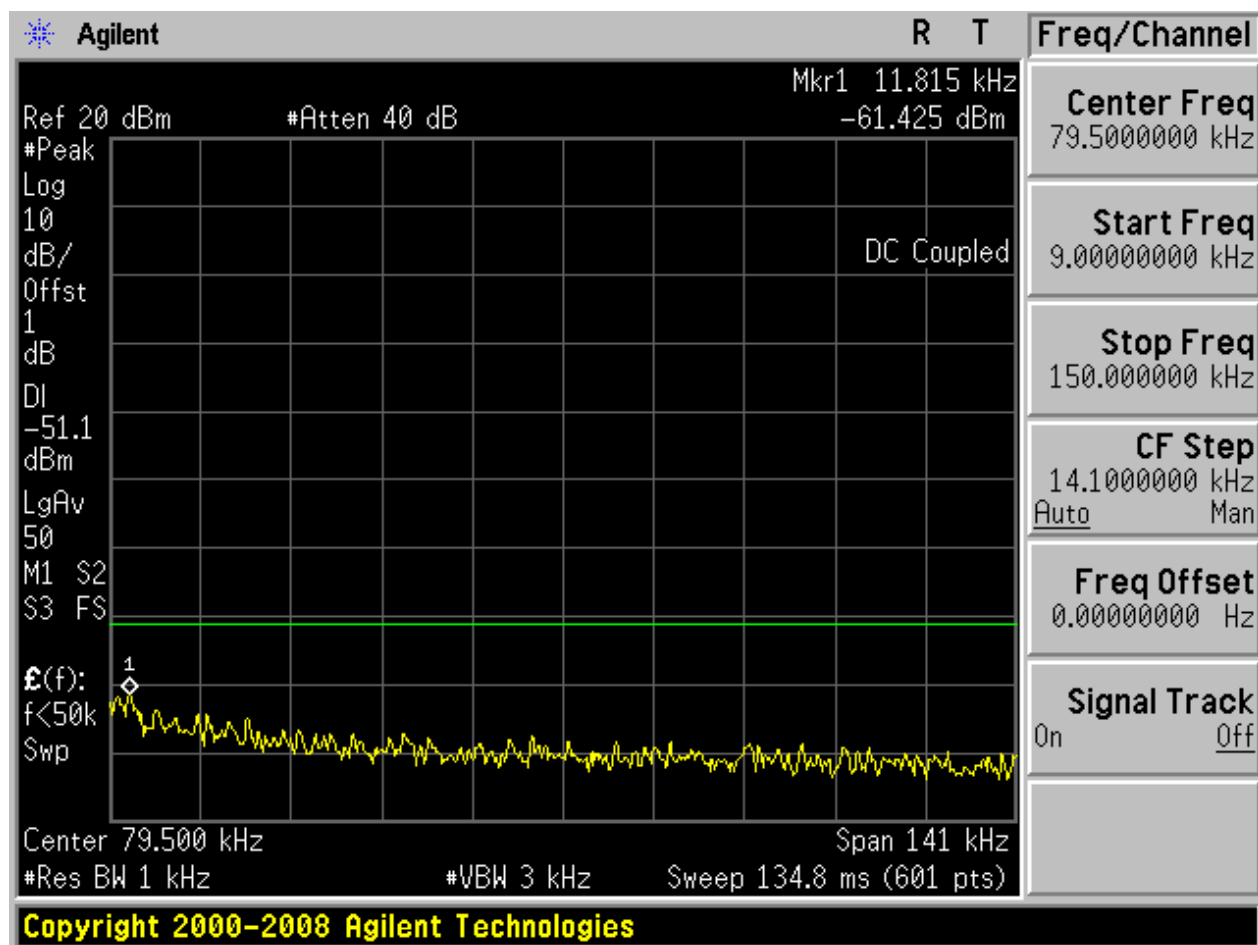
## 2.18 11N20\_H@Ant 2

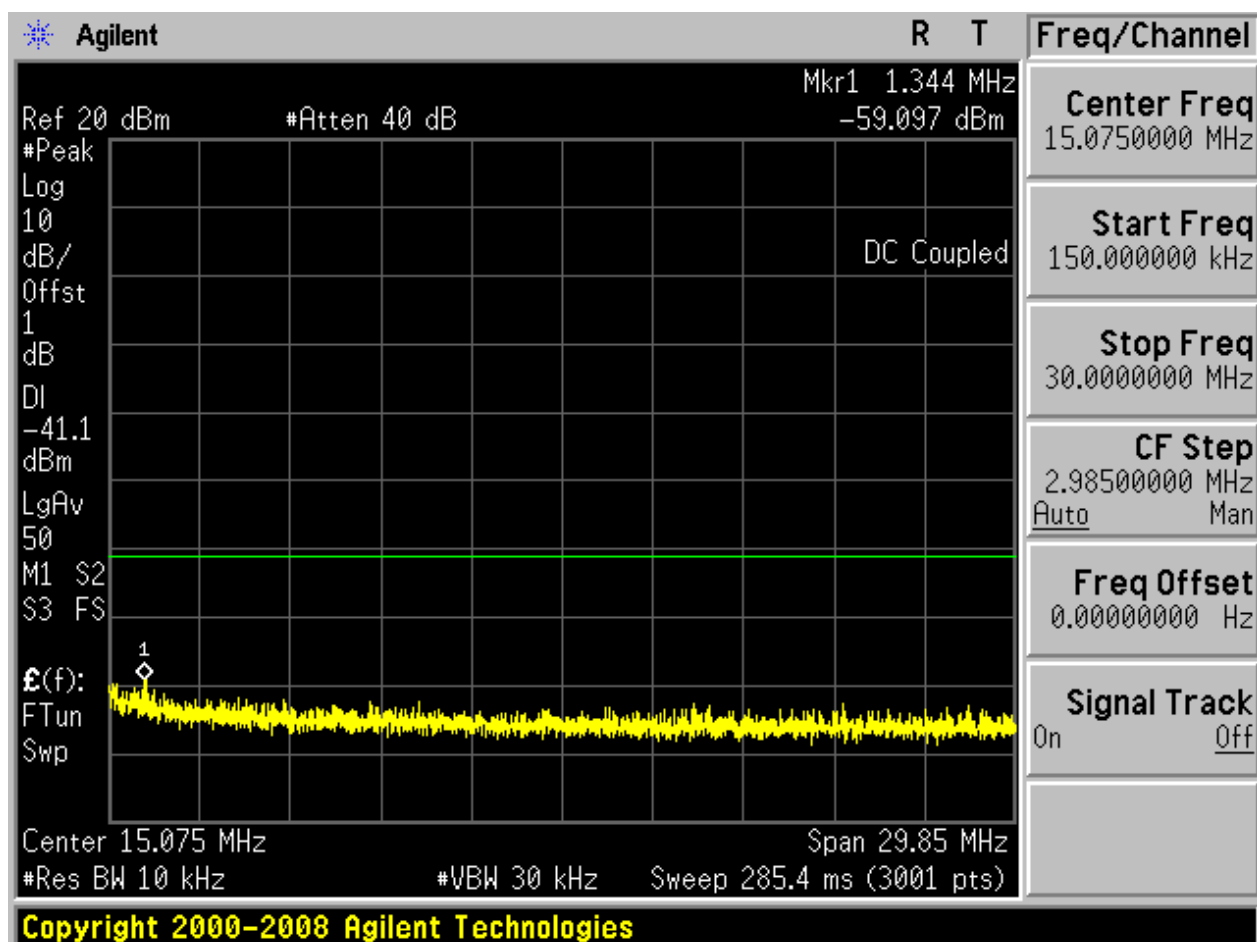
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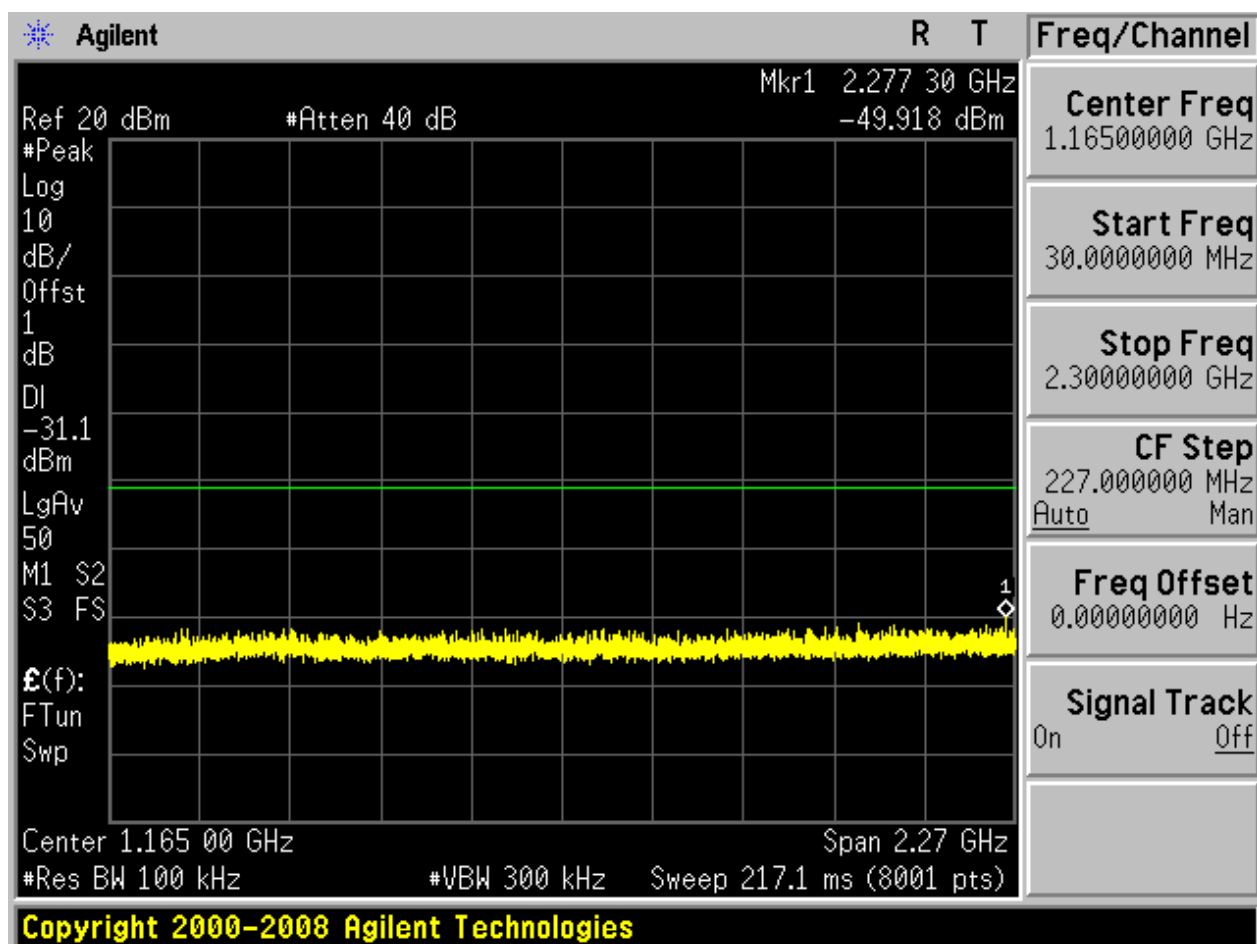


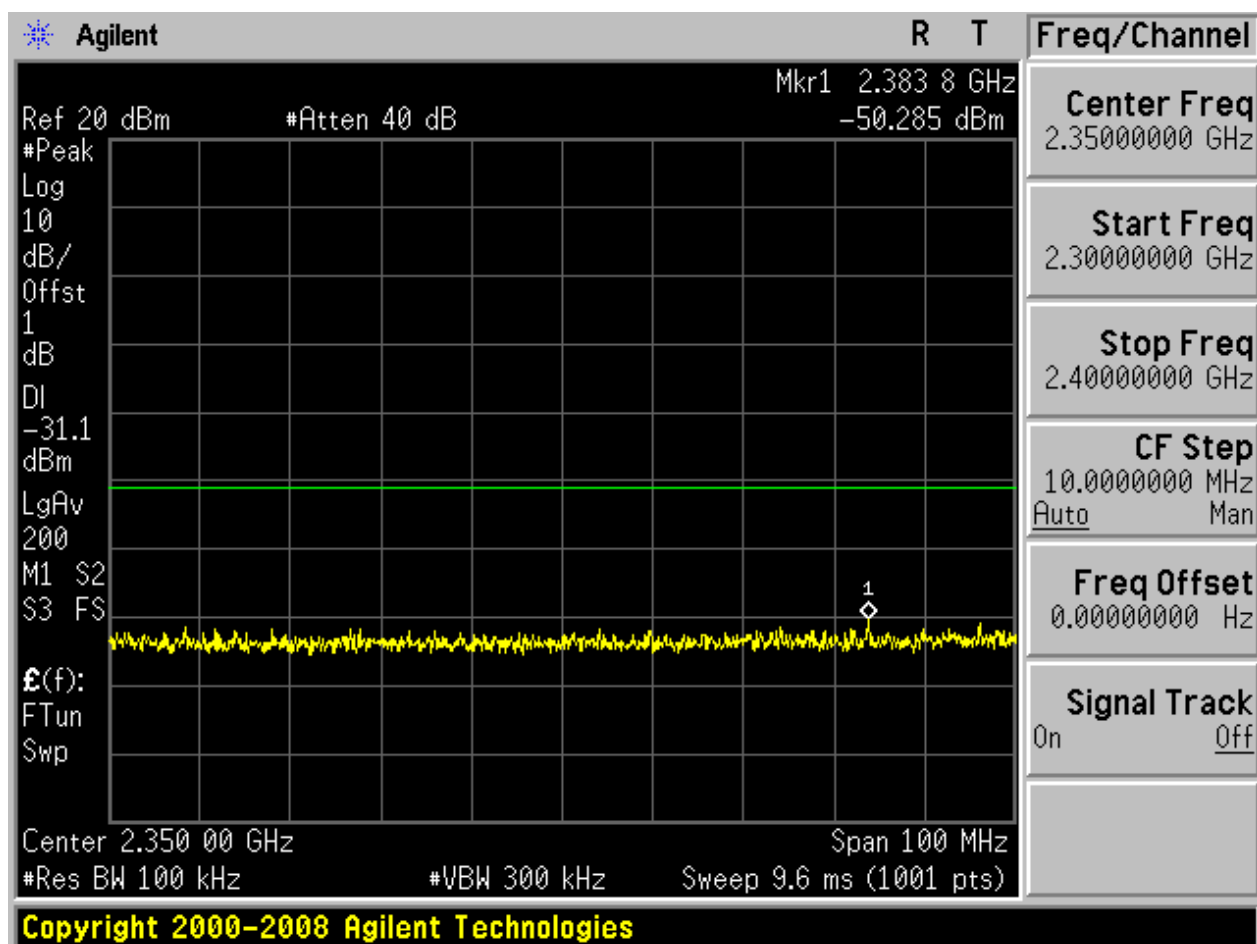


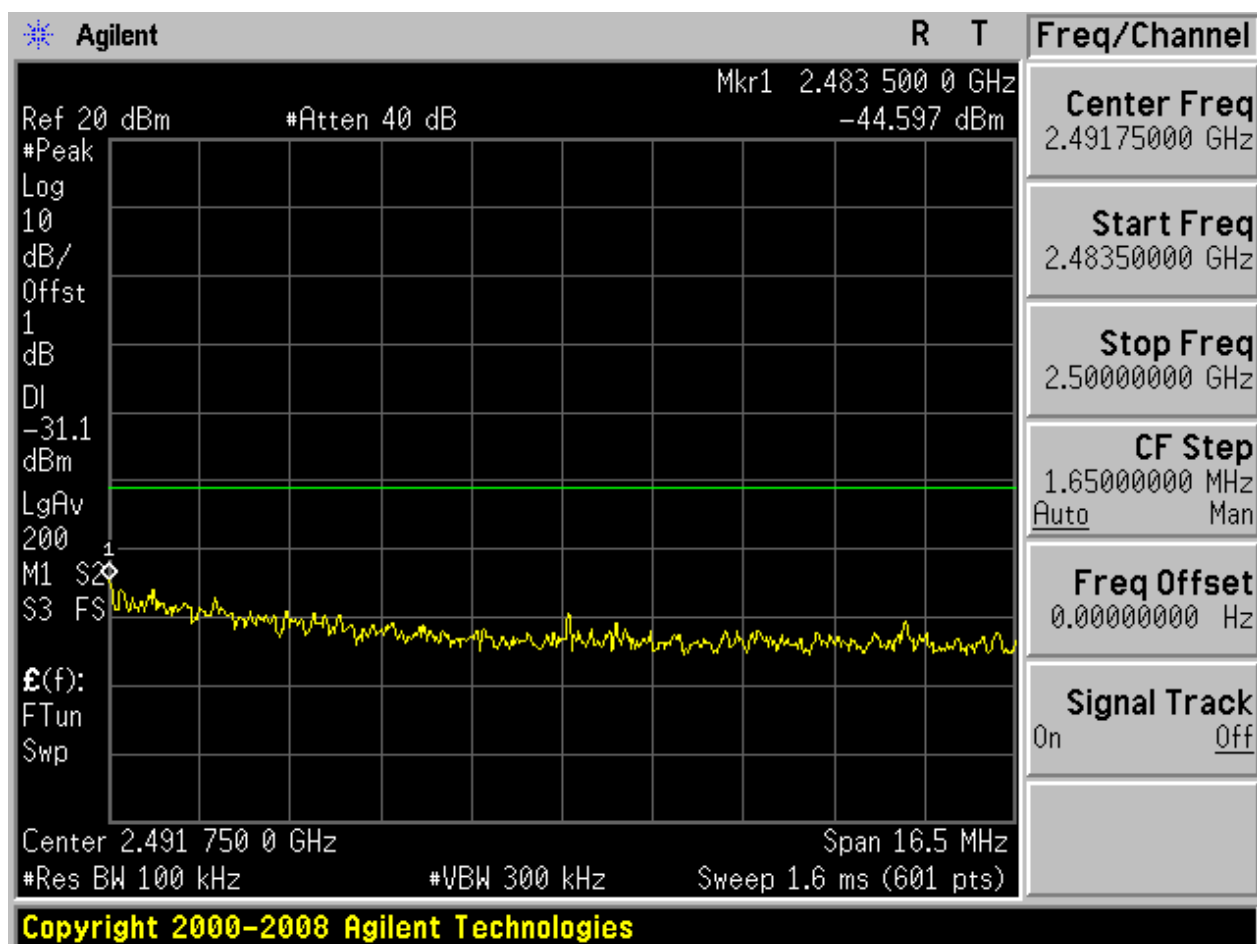
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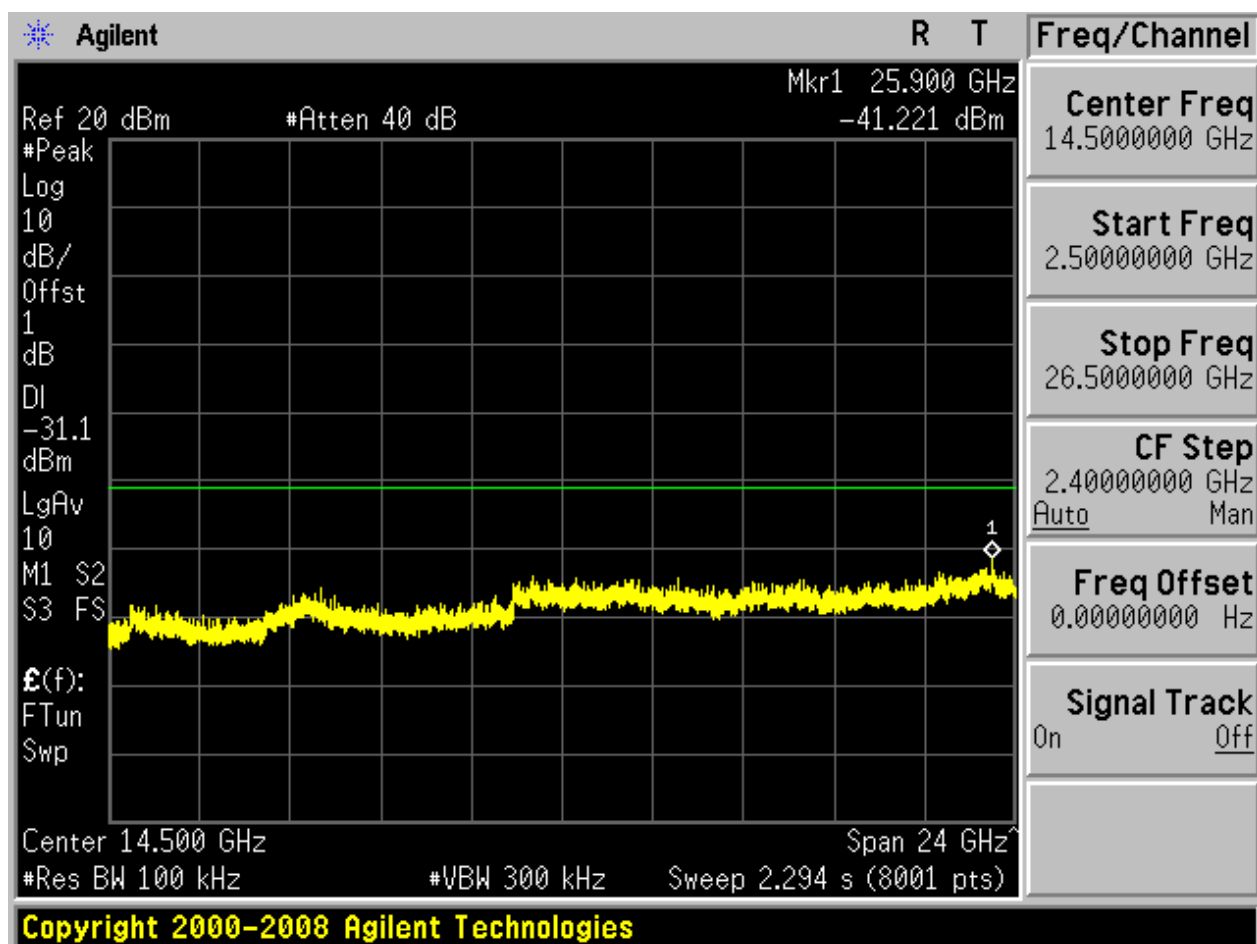






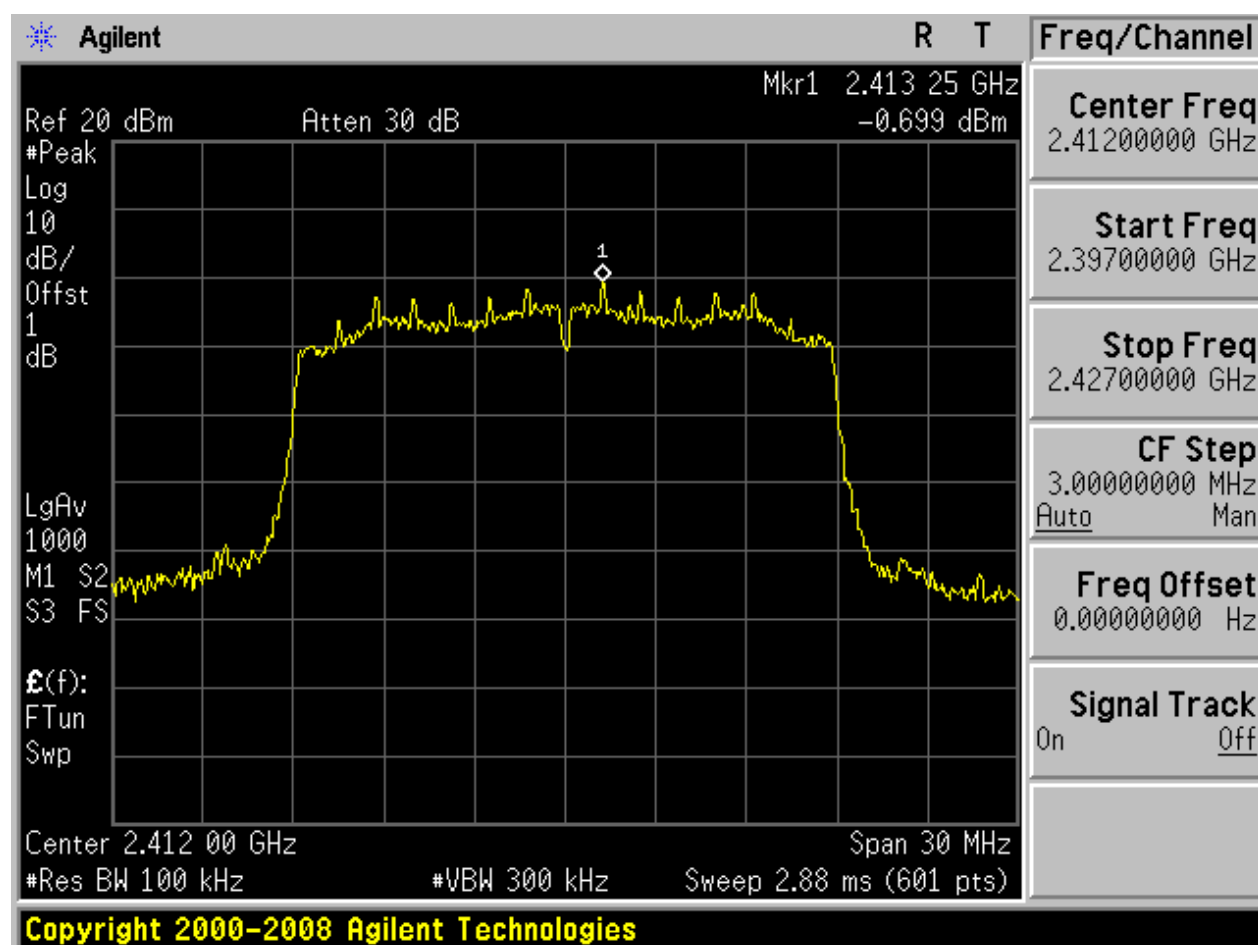






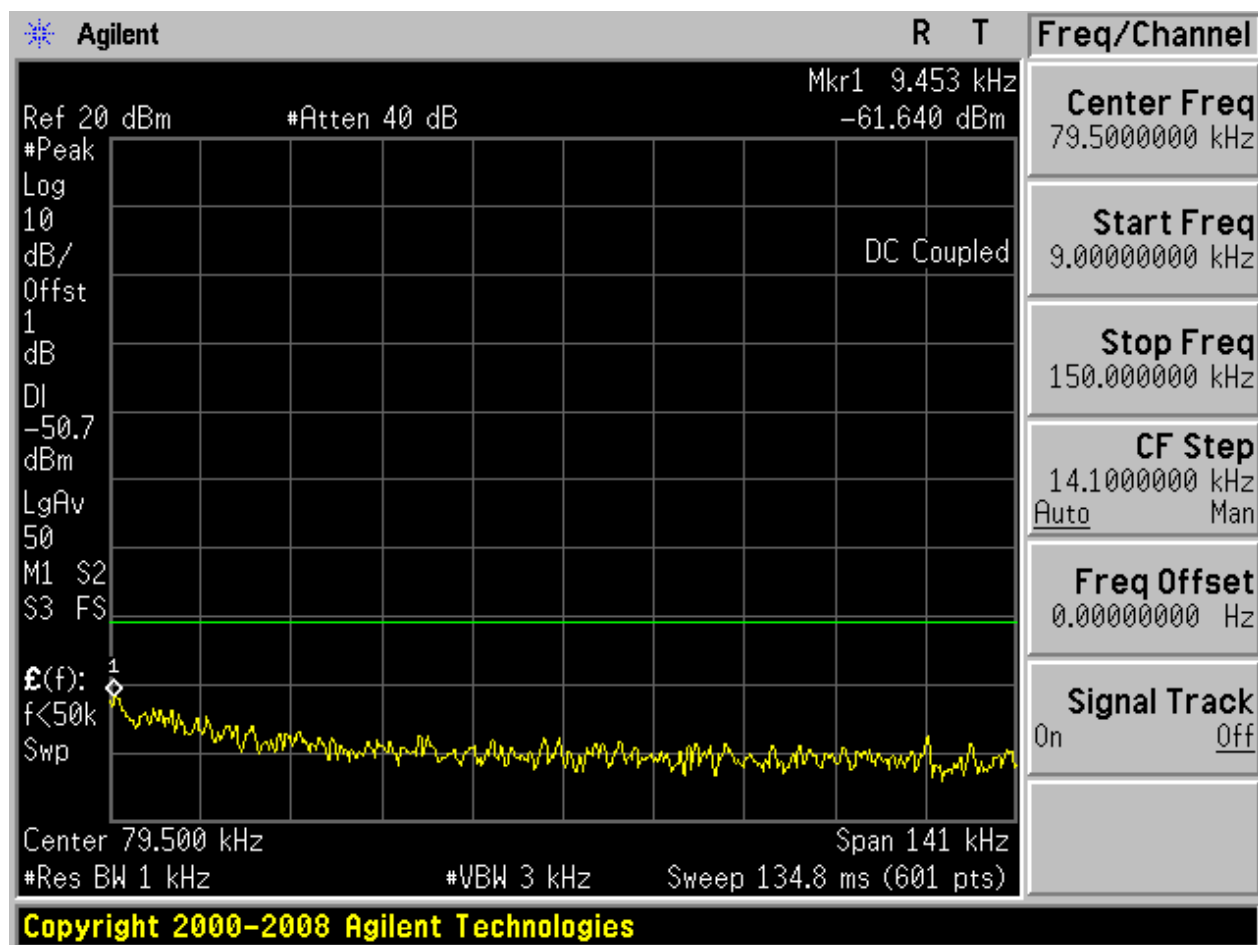
## 2.13 11N20m\_L@Ant 1

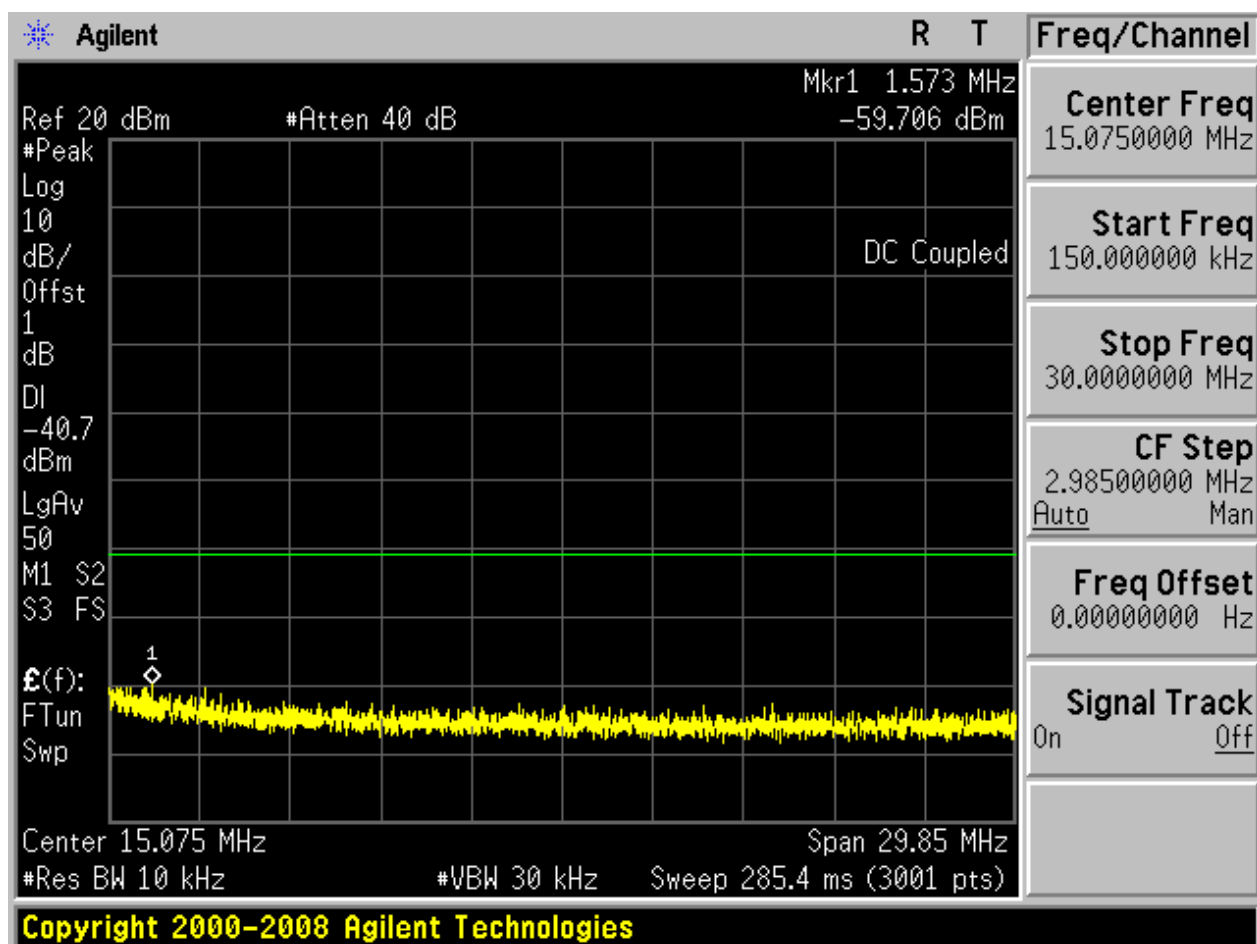
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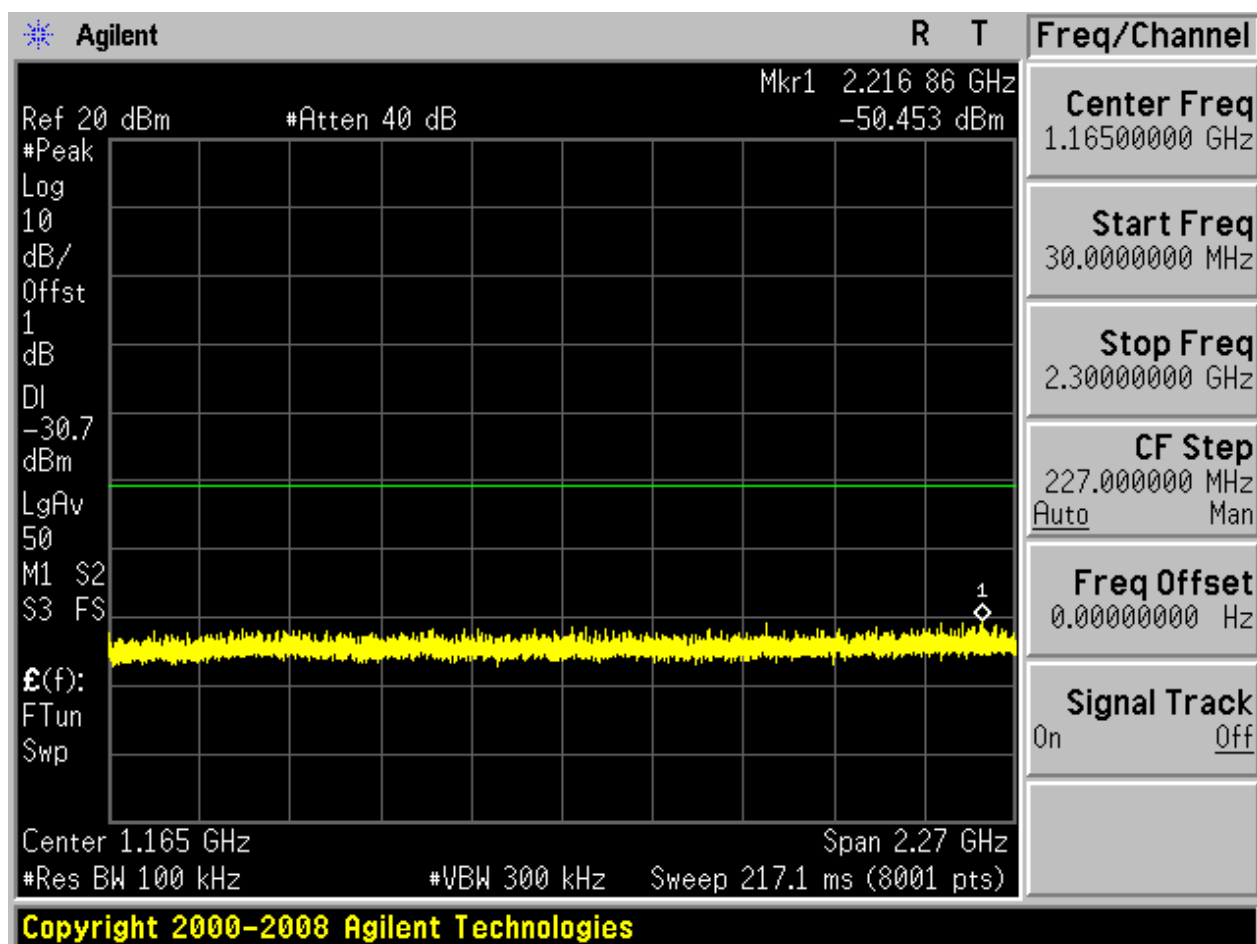


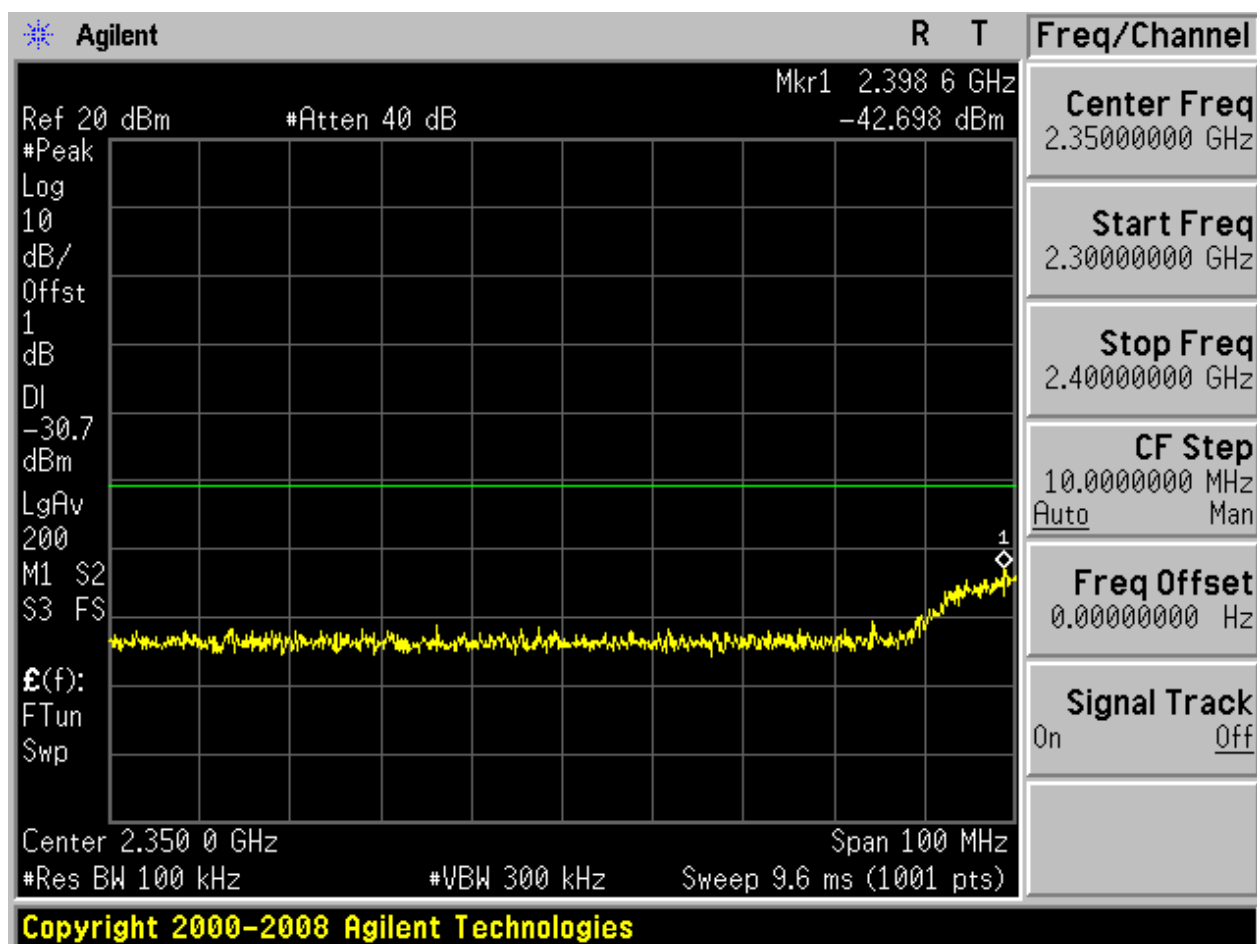


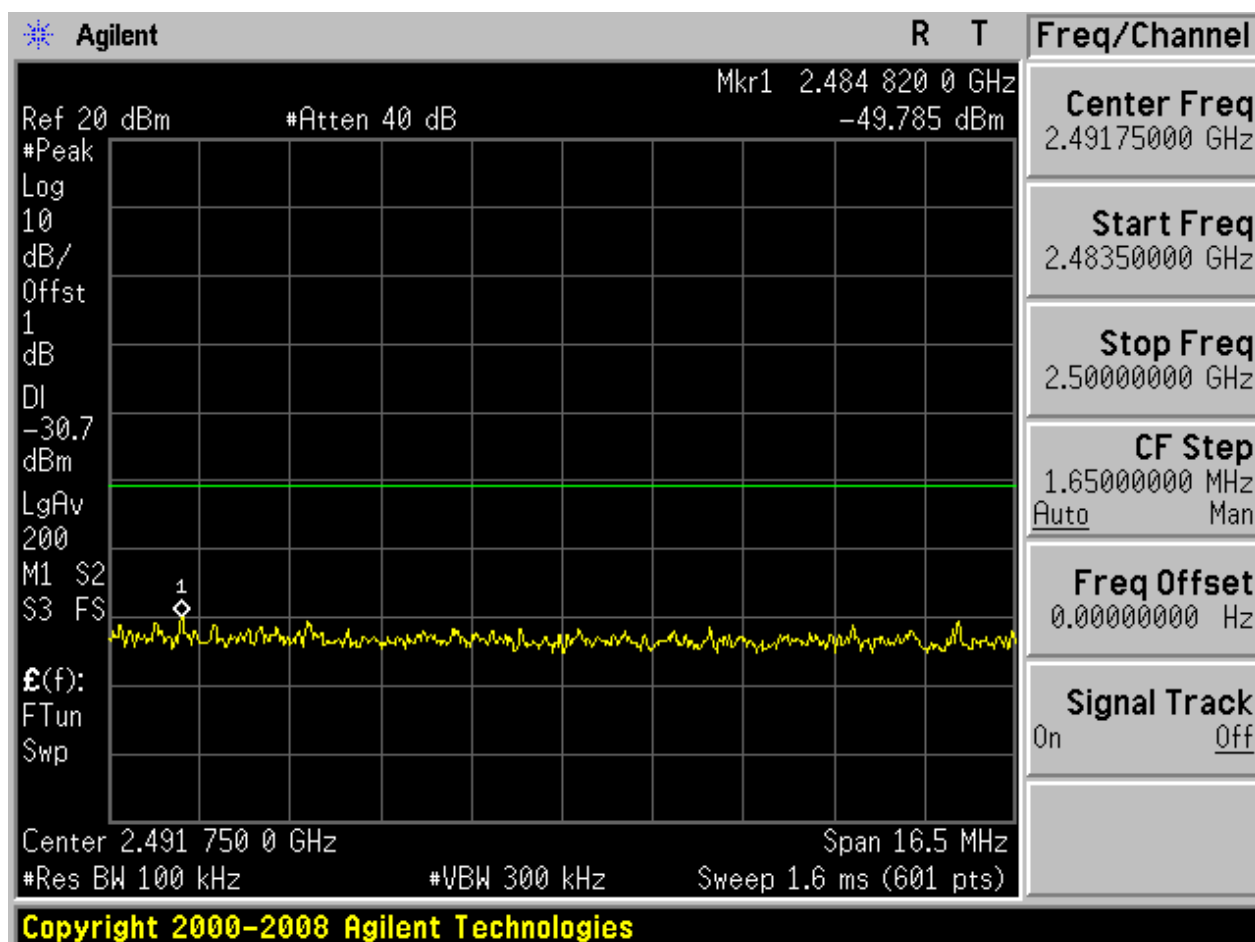
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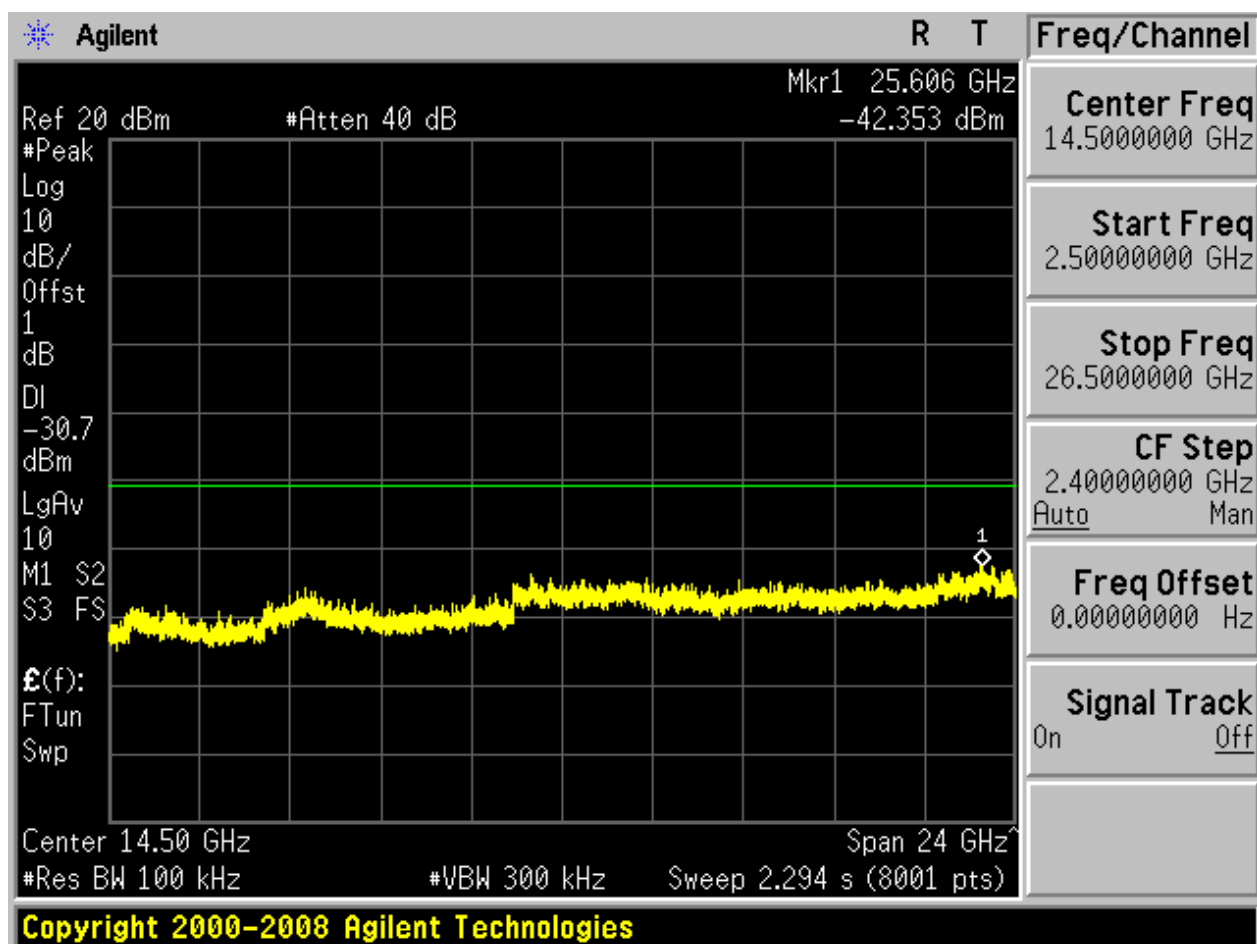






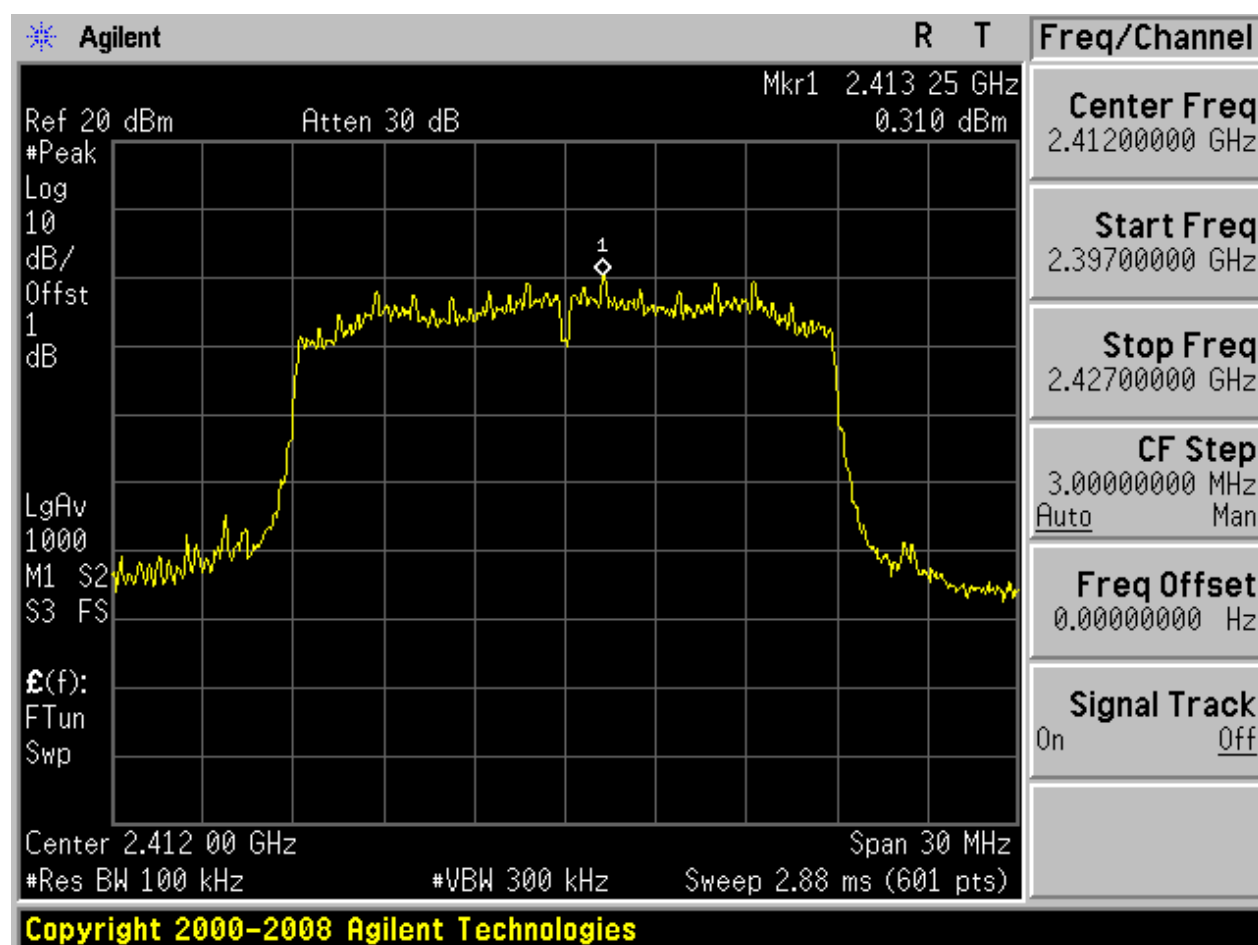




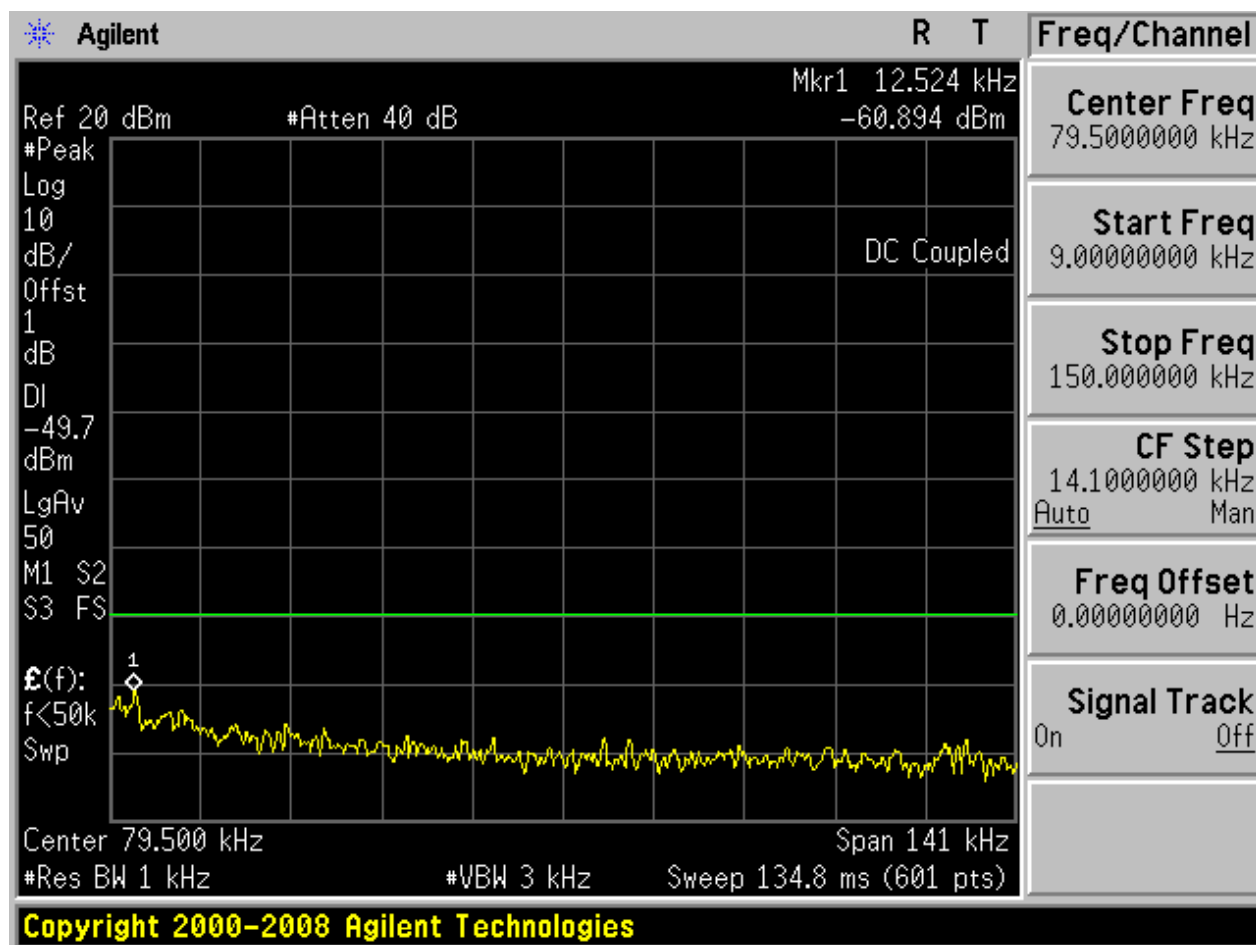


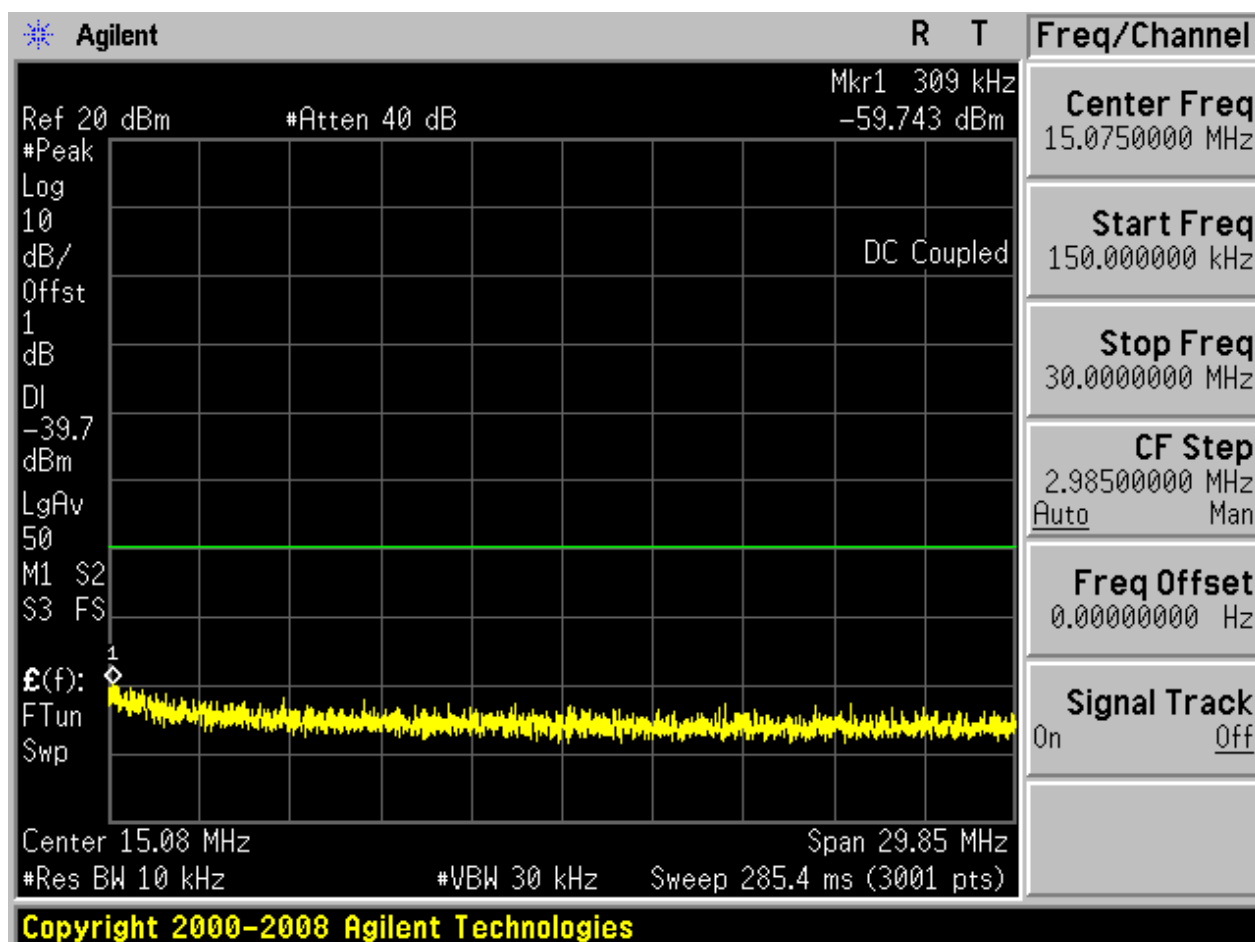
## 2.14 11N20m\_L@Ant 2

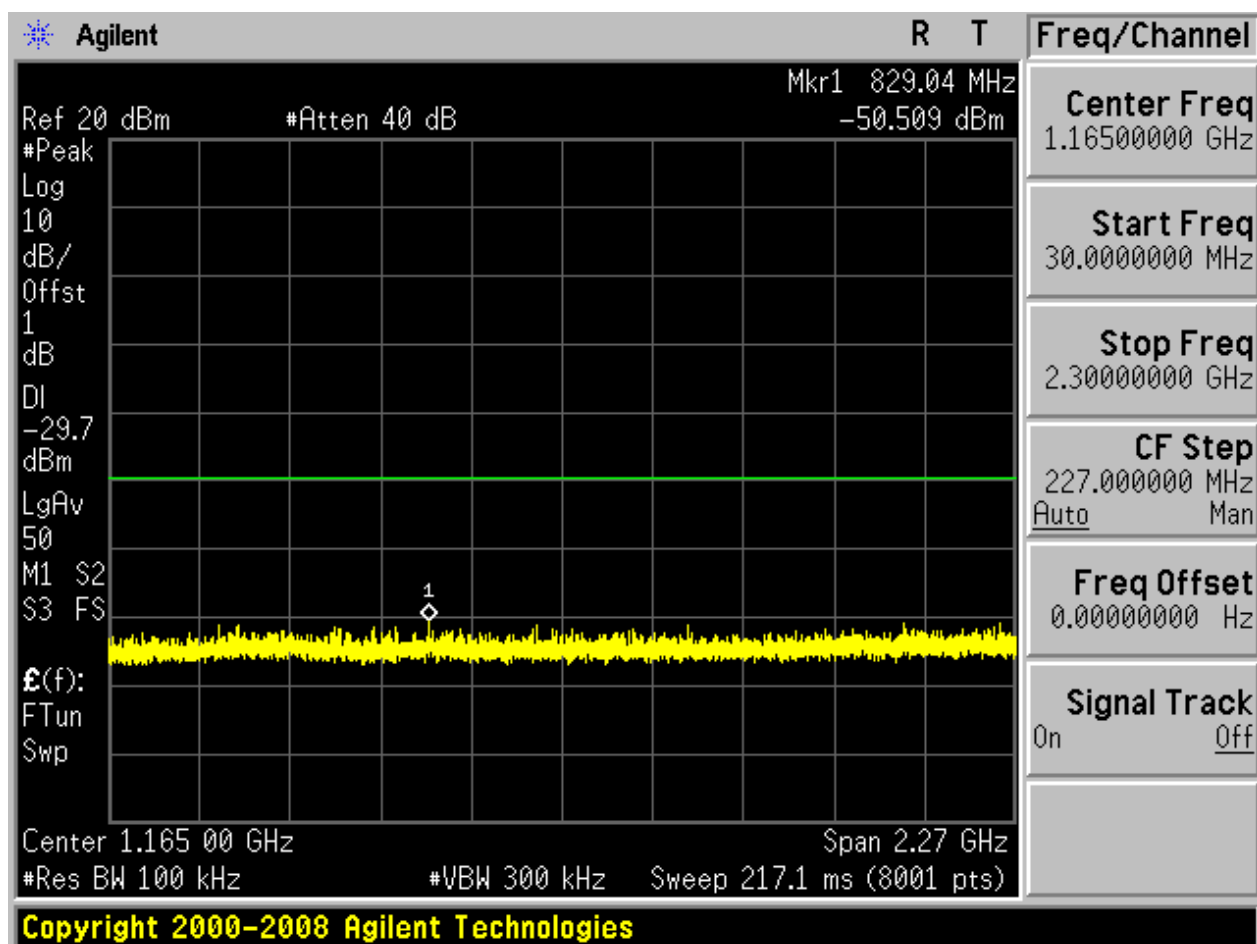
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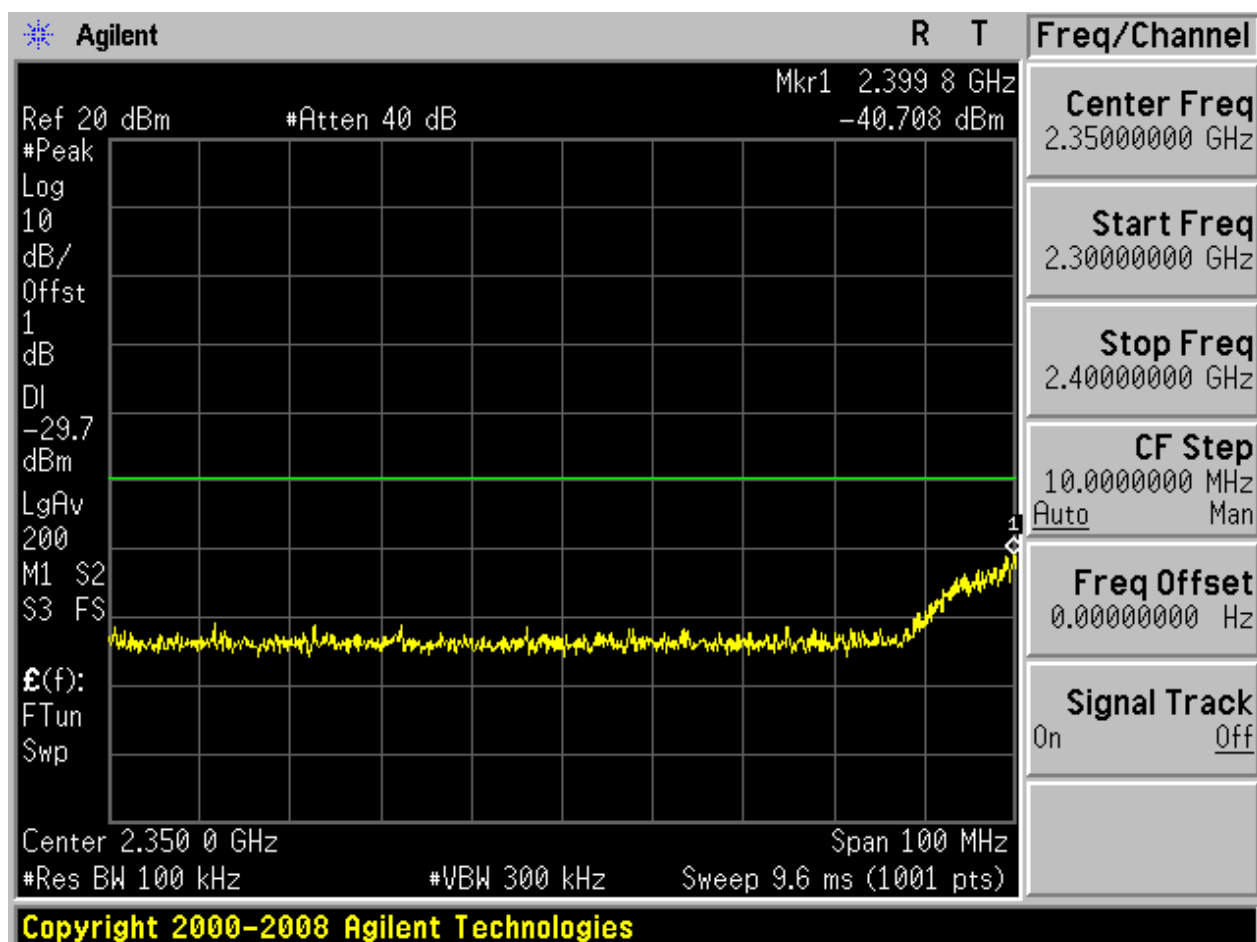


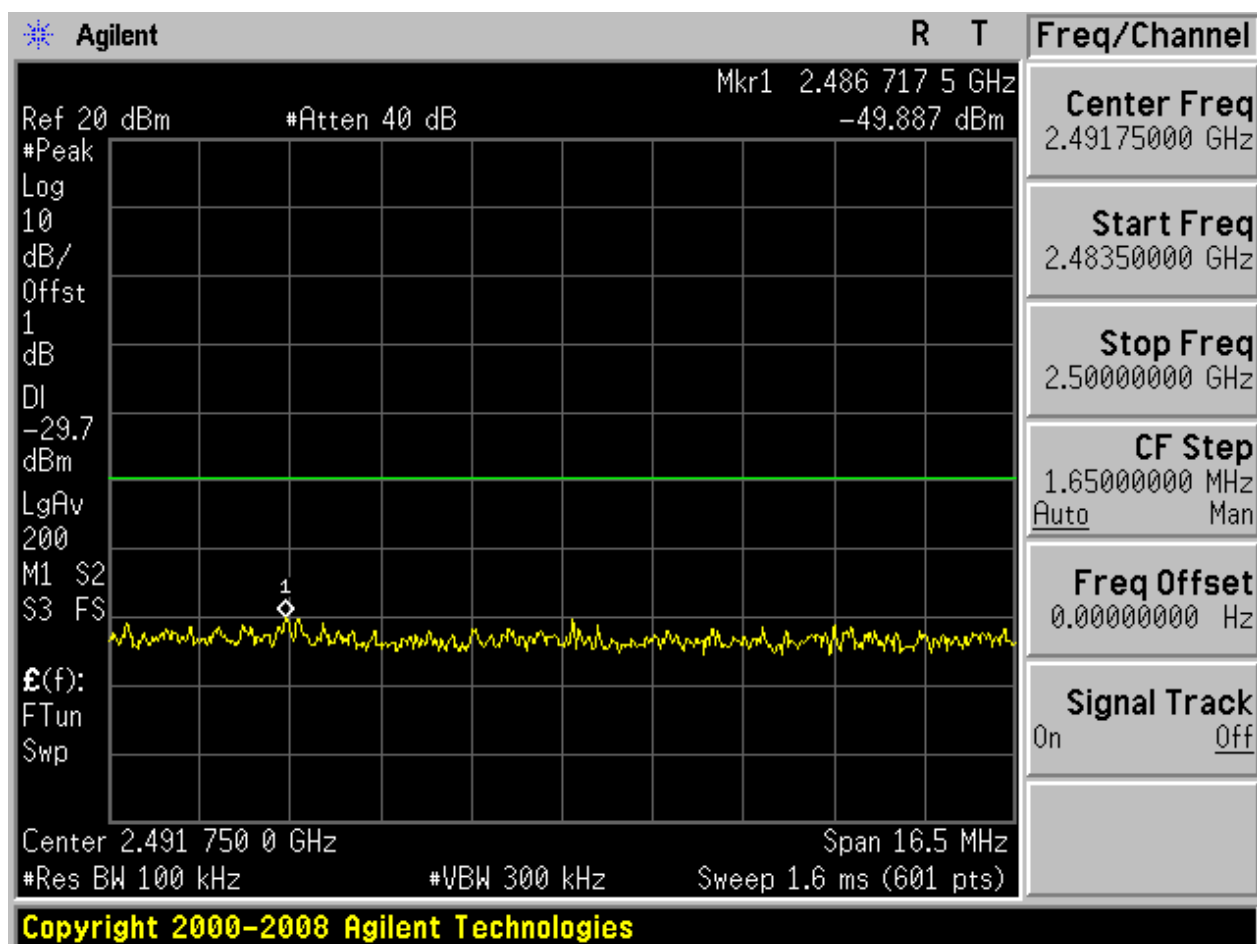
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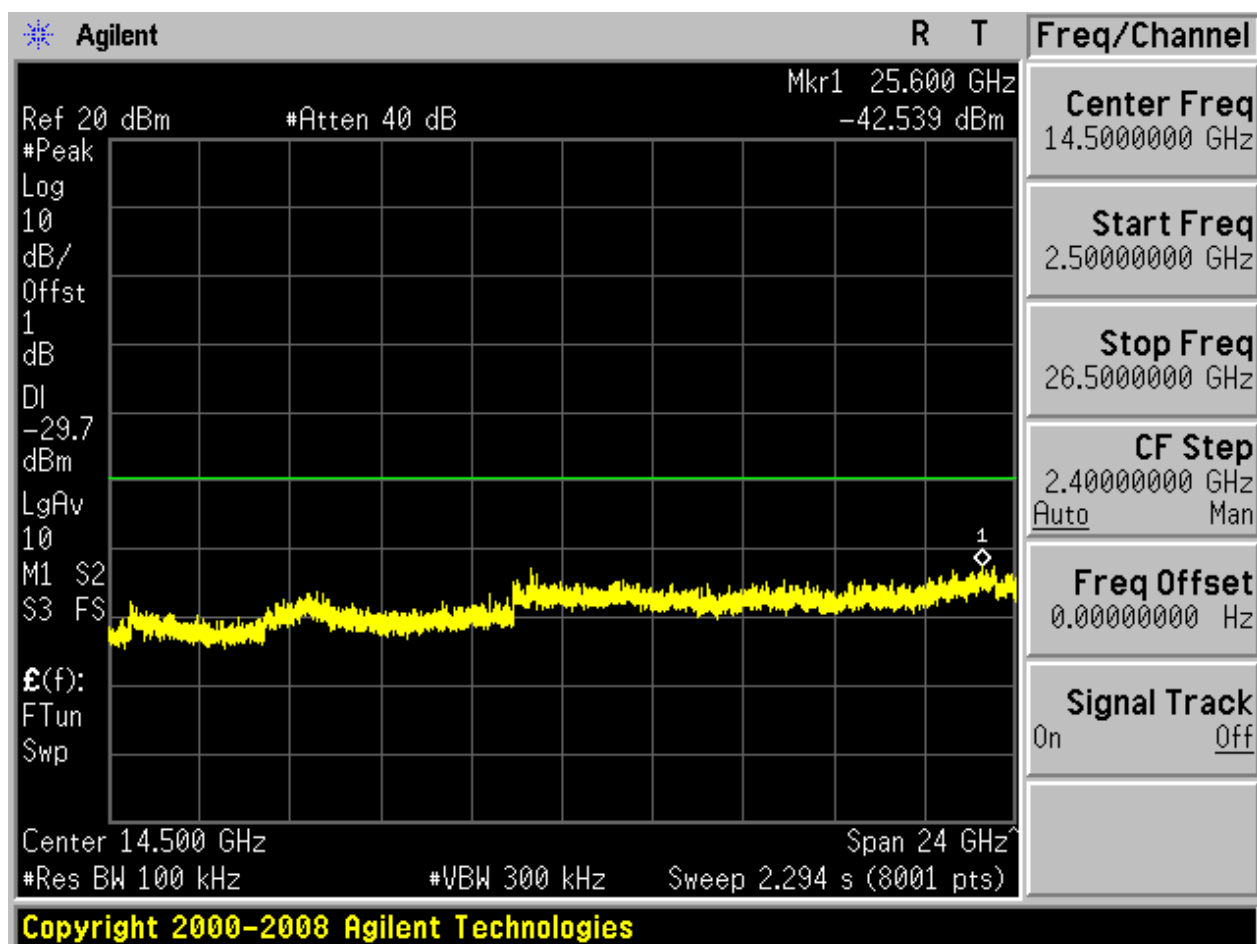






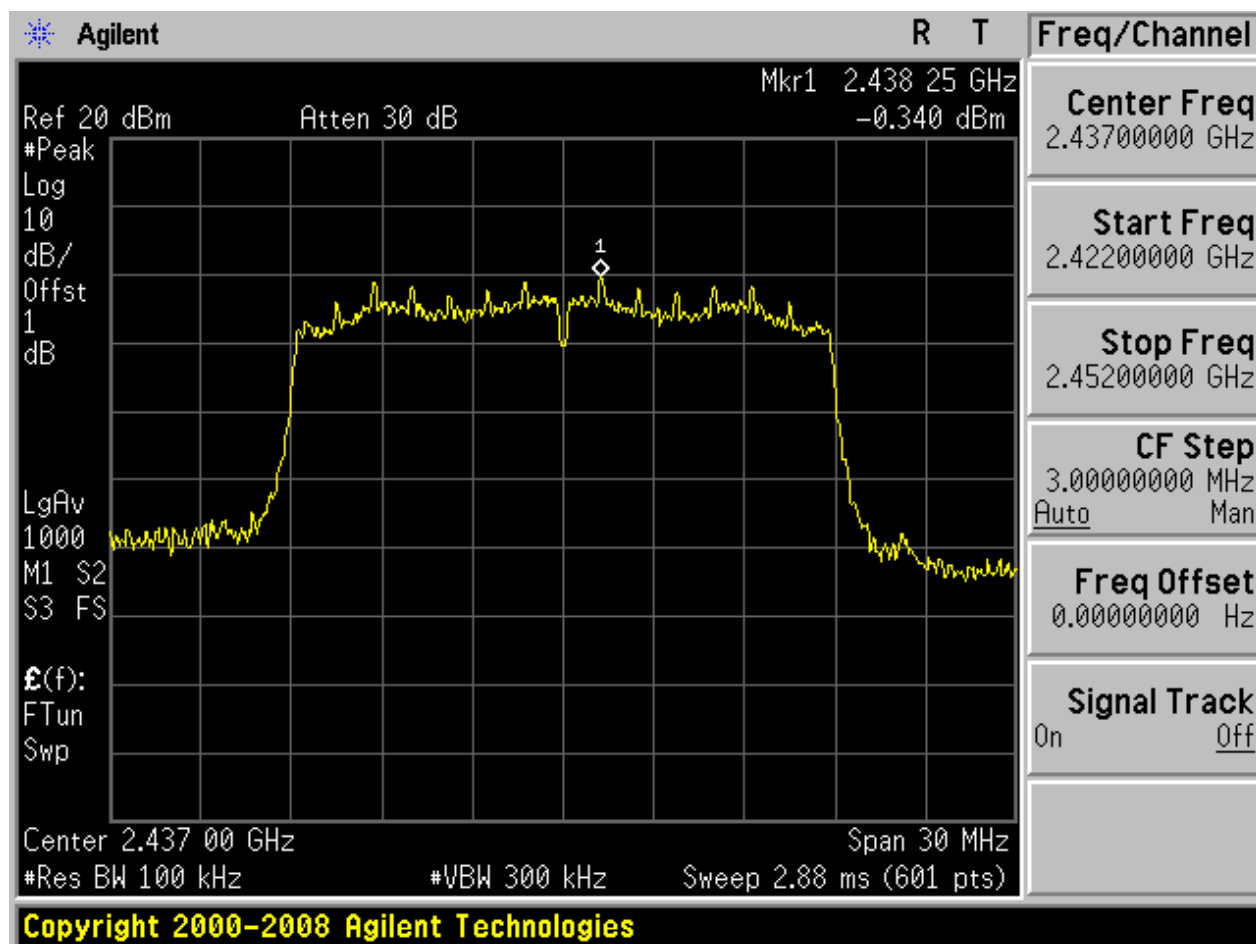






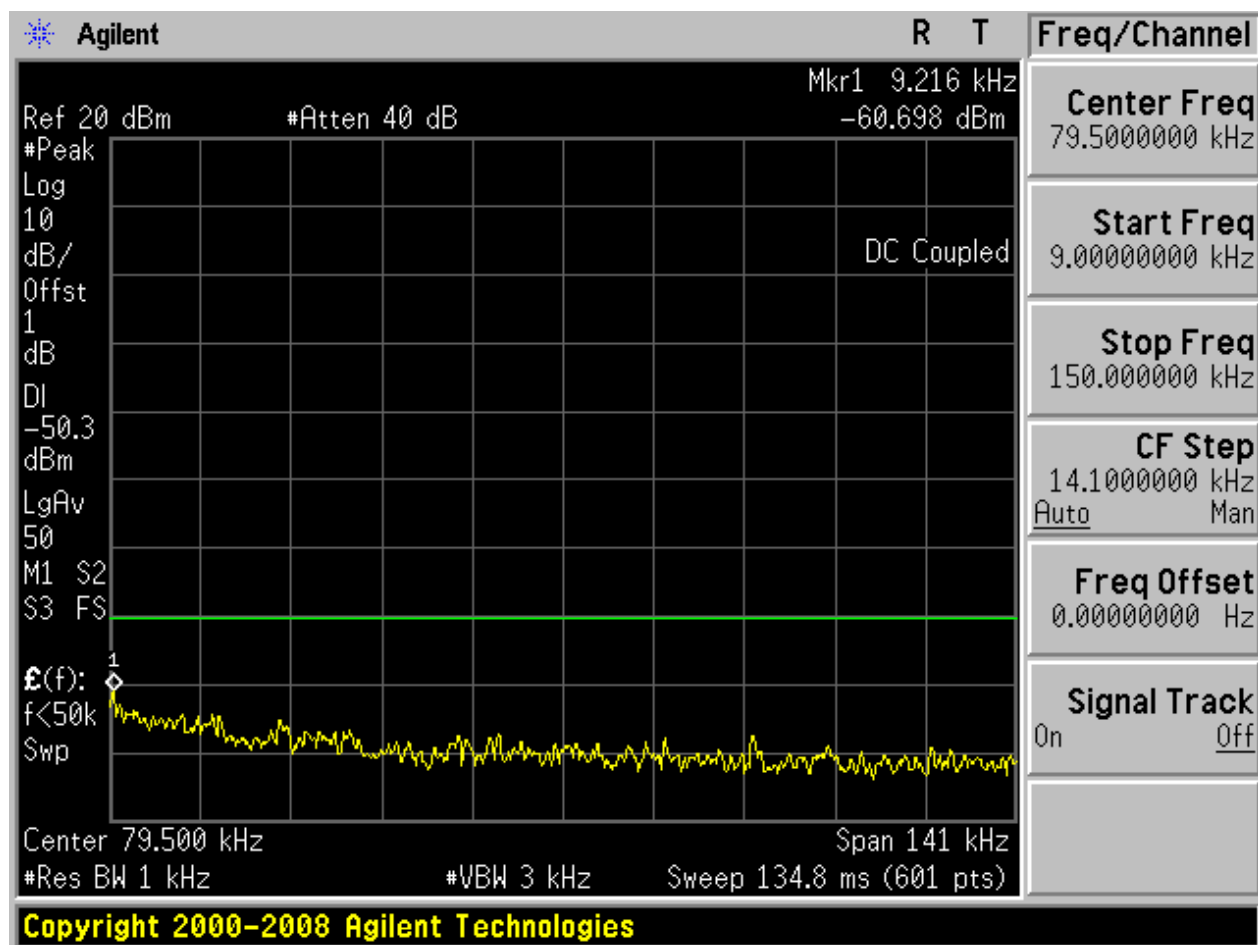
## 2.15 11N20m\_M@Ant 1

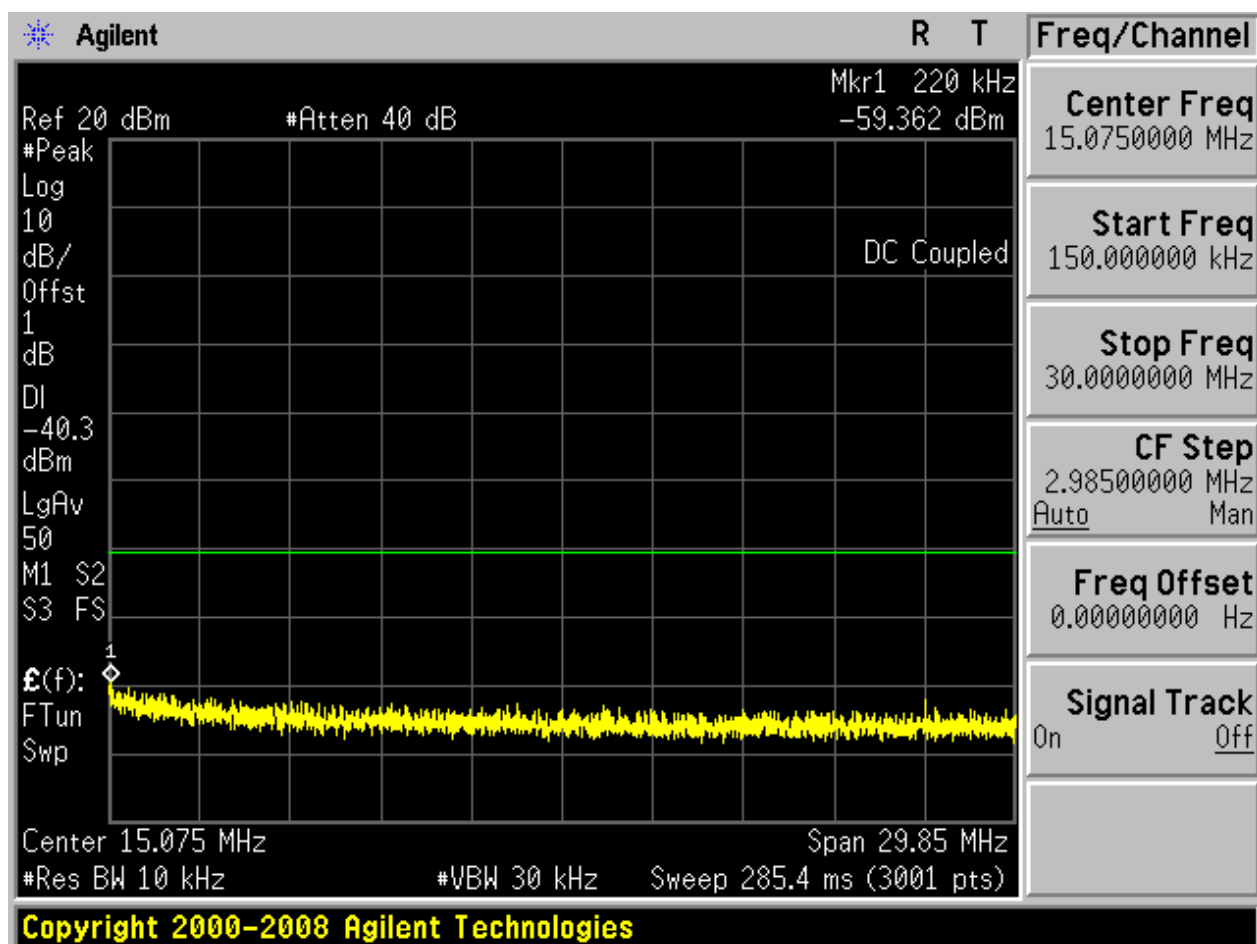
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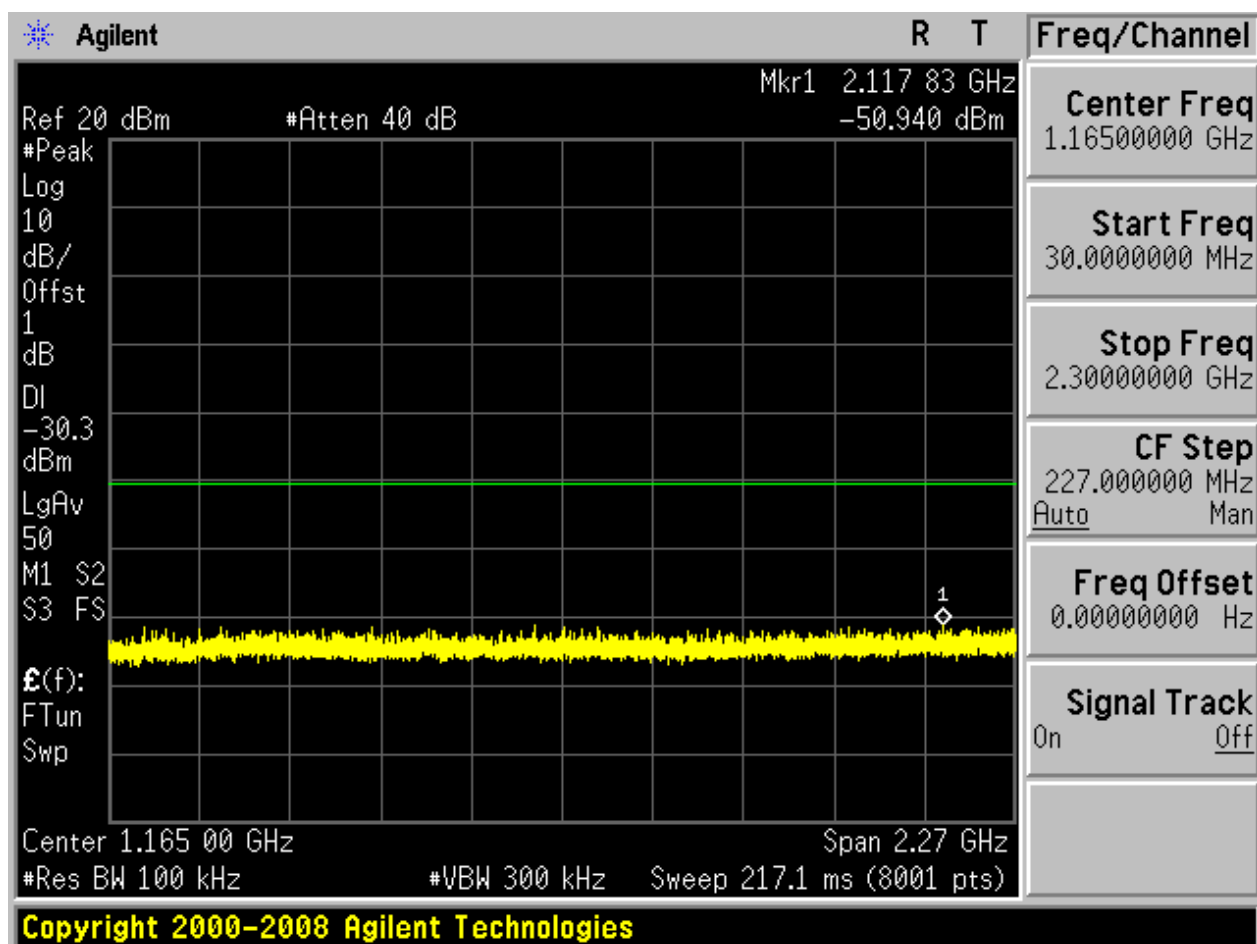


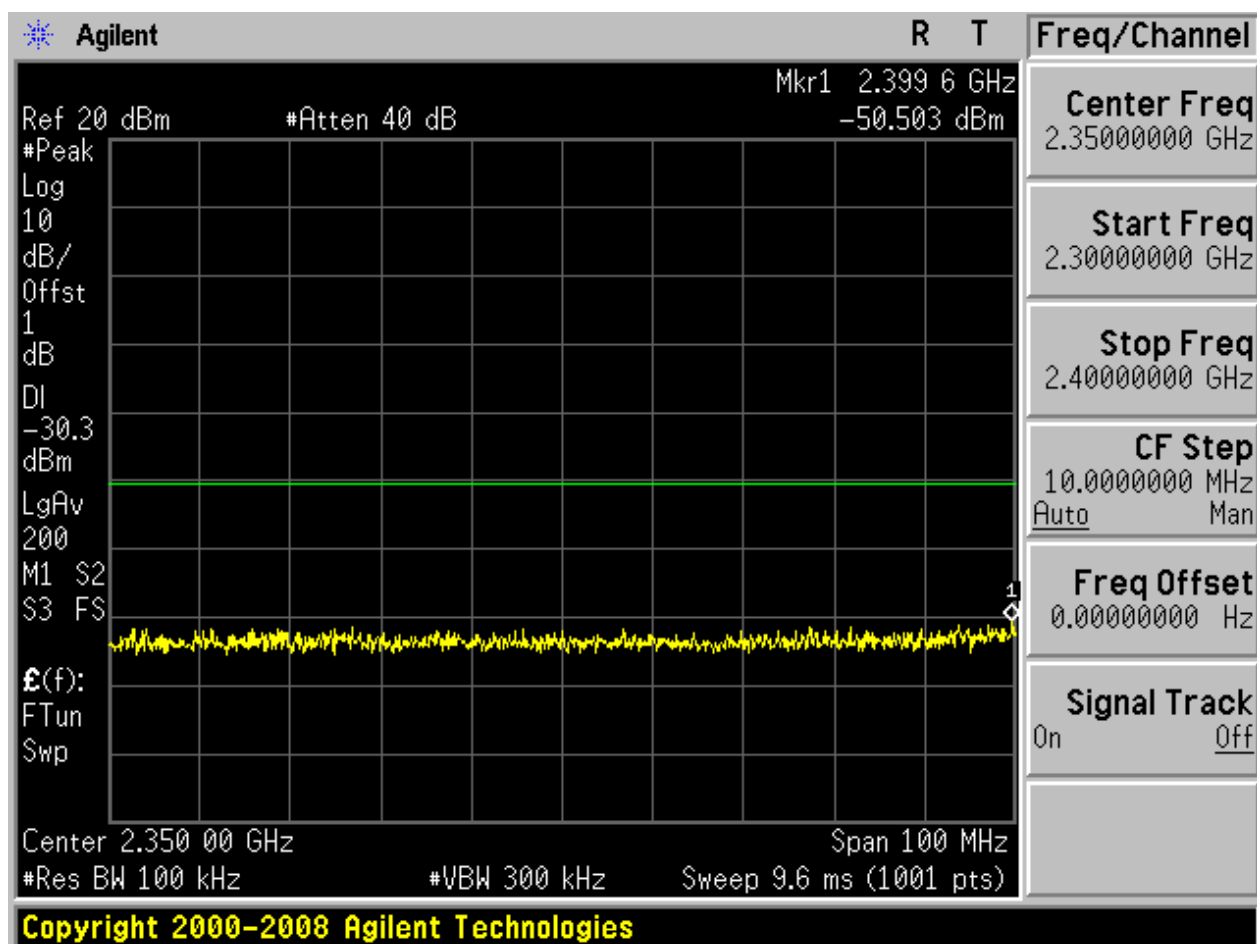


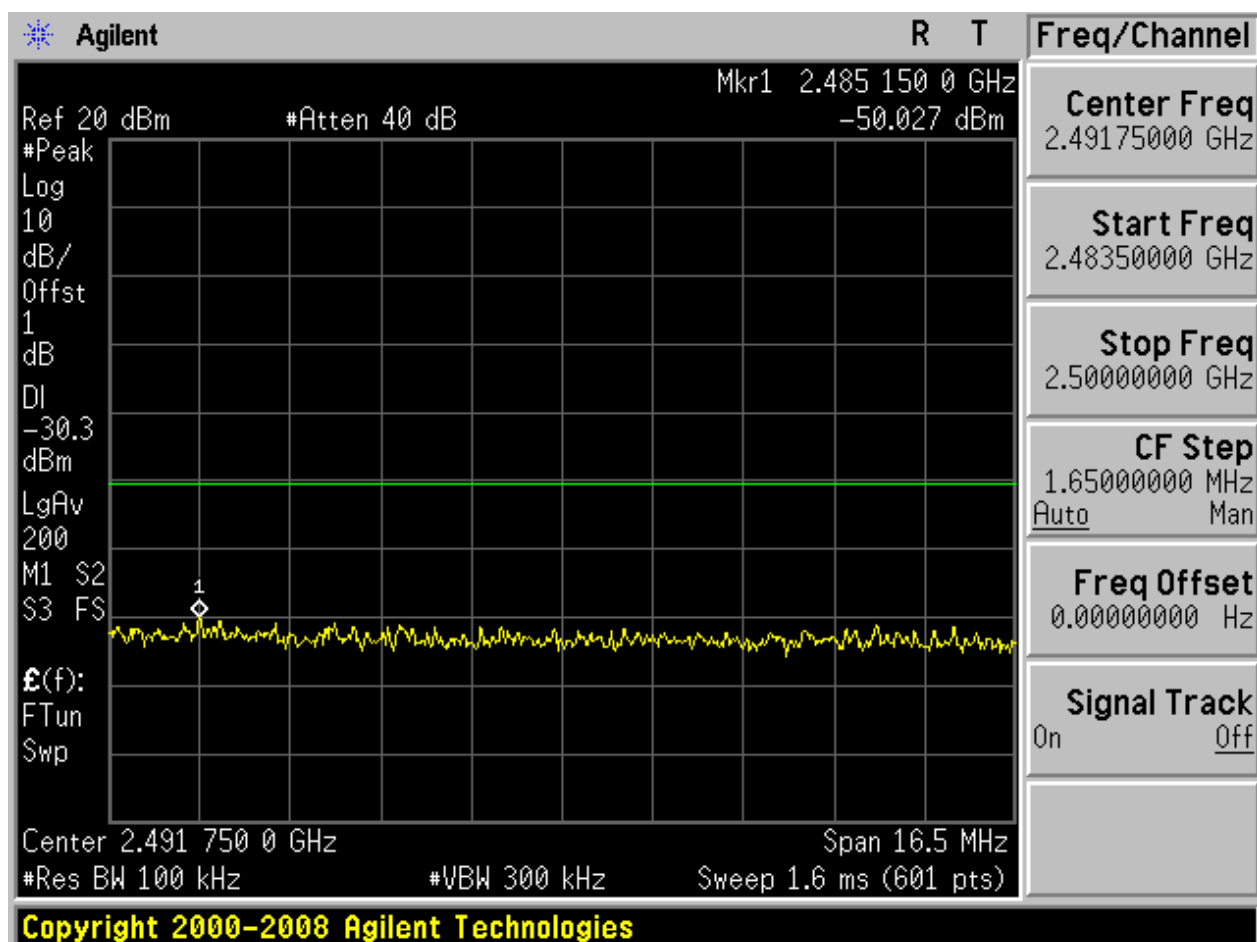
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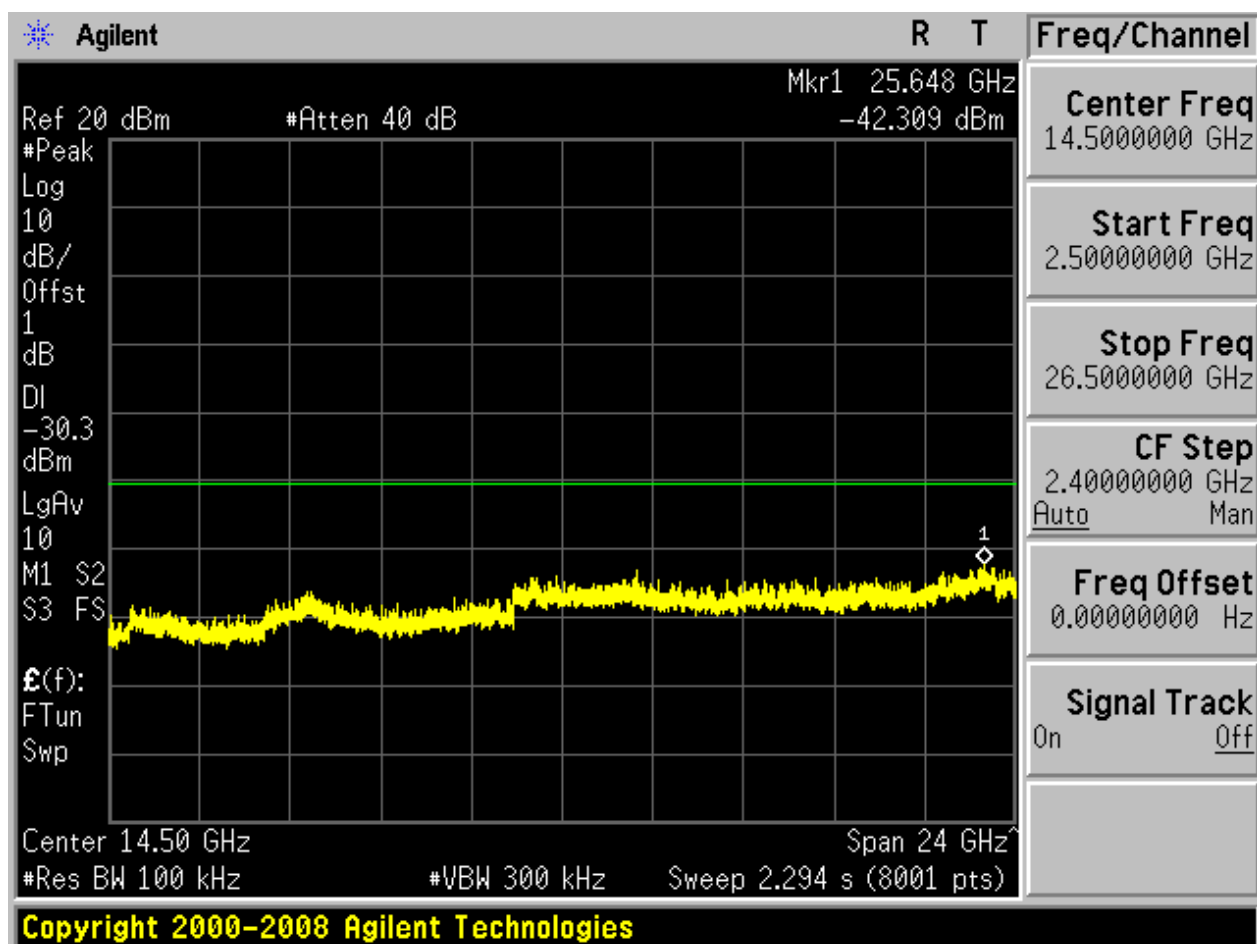








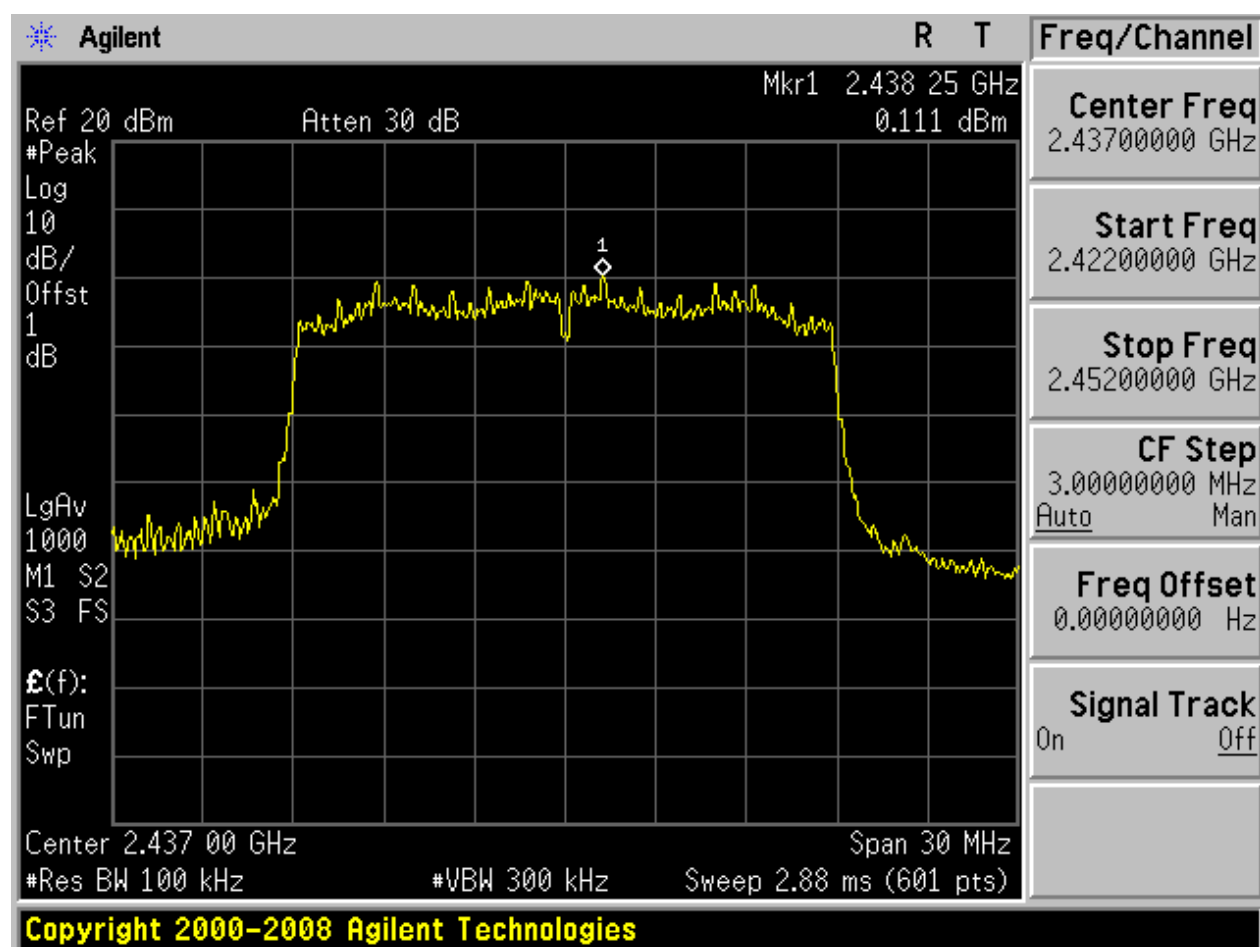






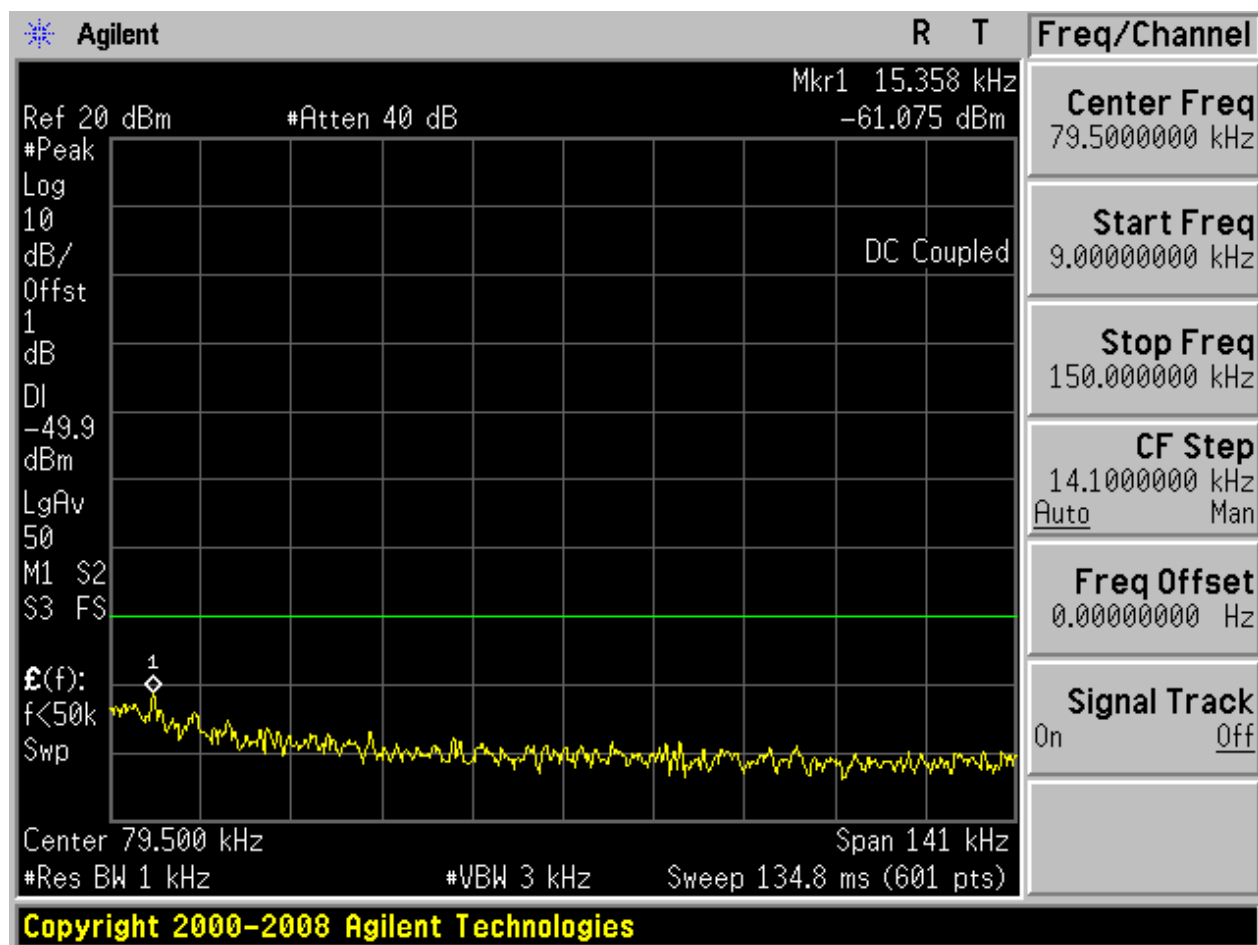
## 2.16 11N20m\_M@Ant 2

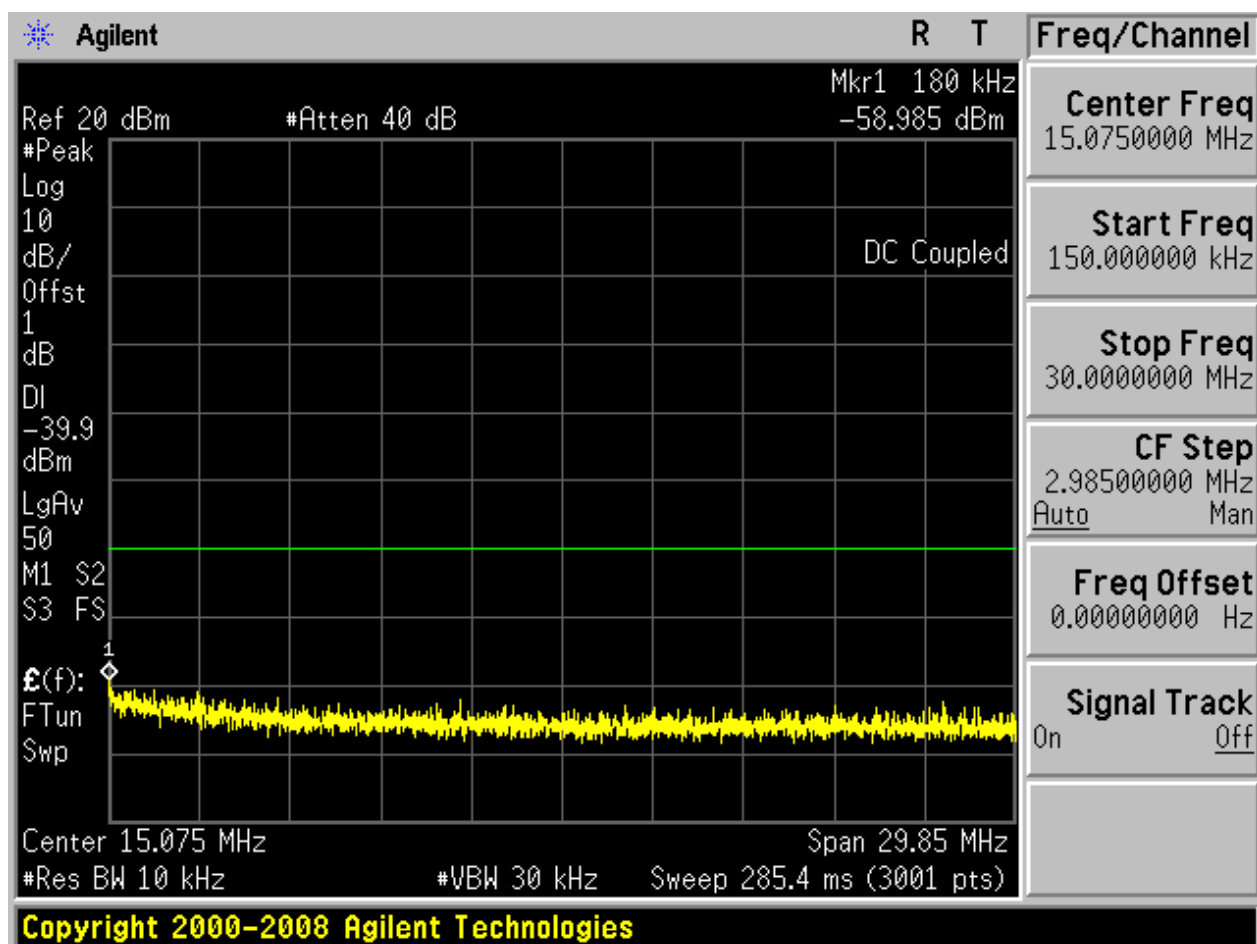
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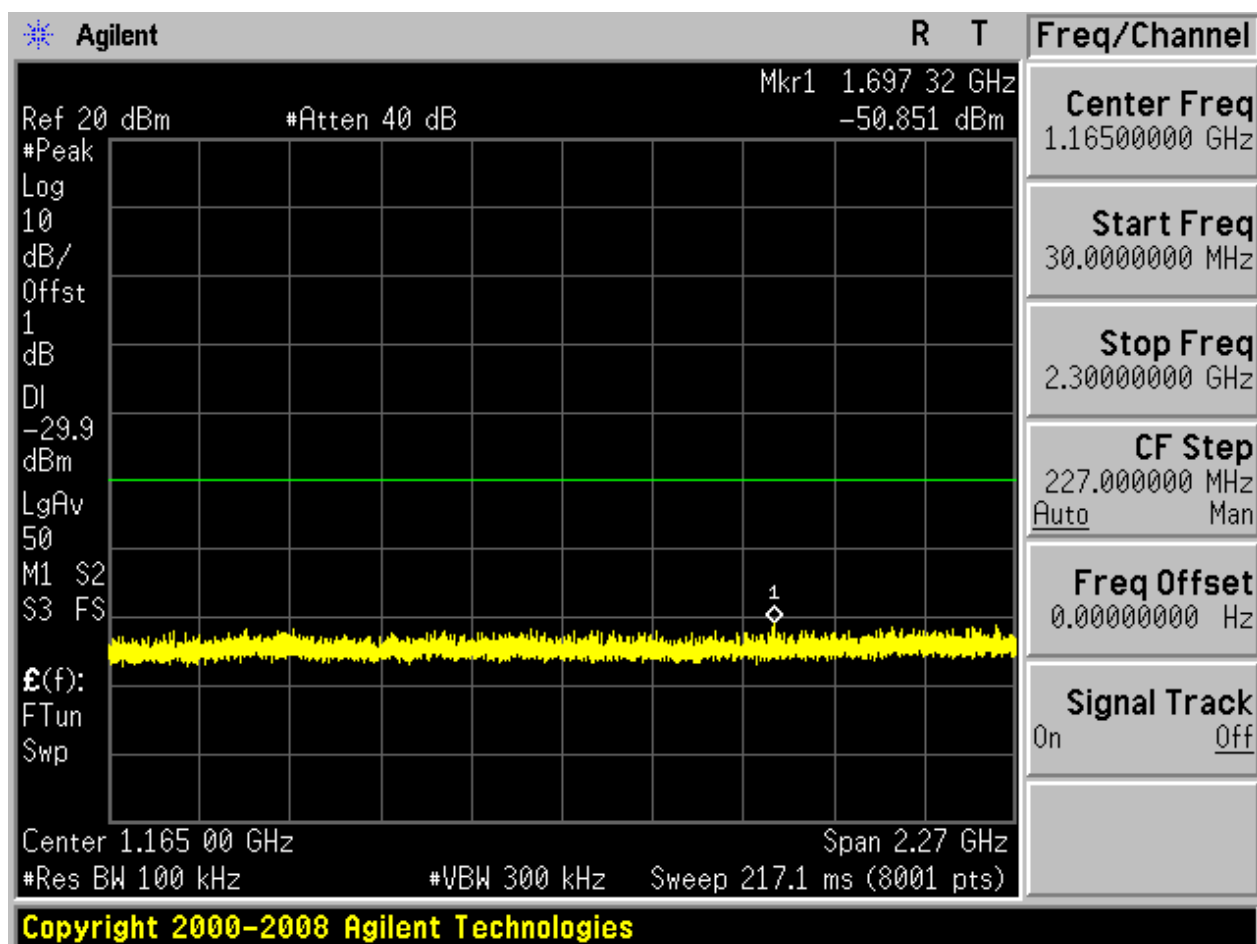


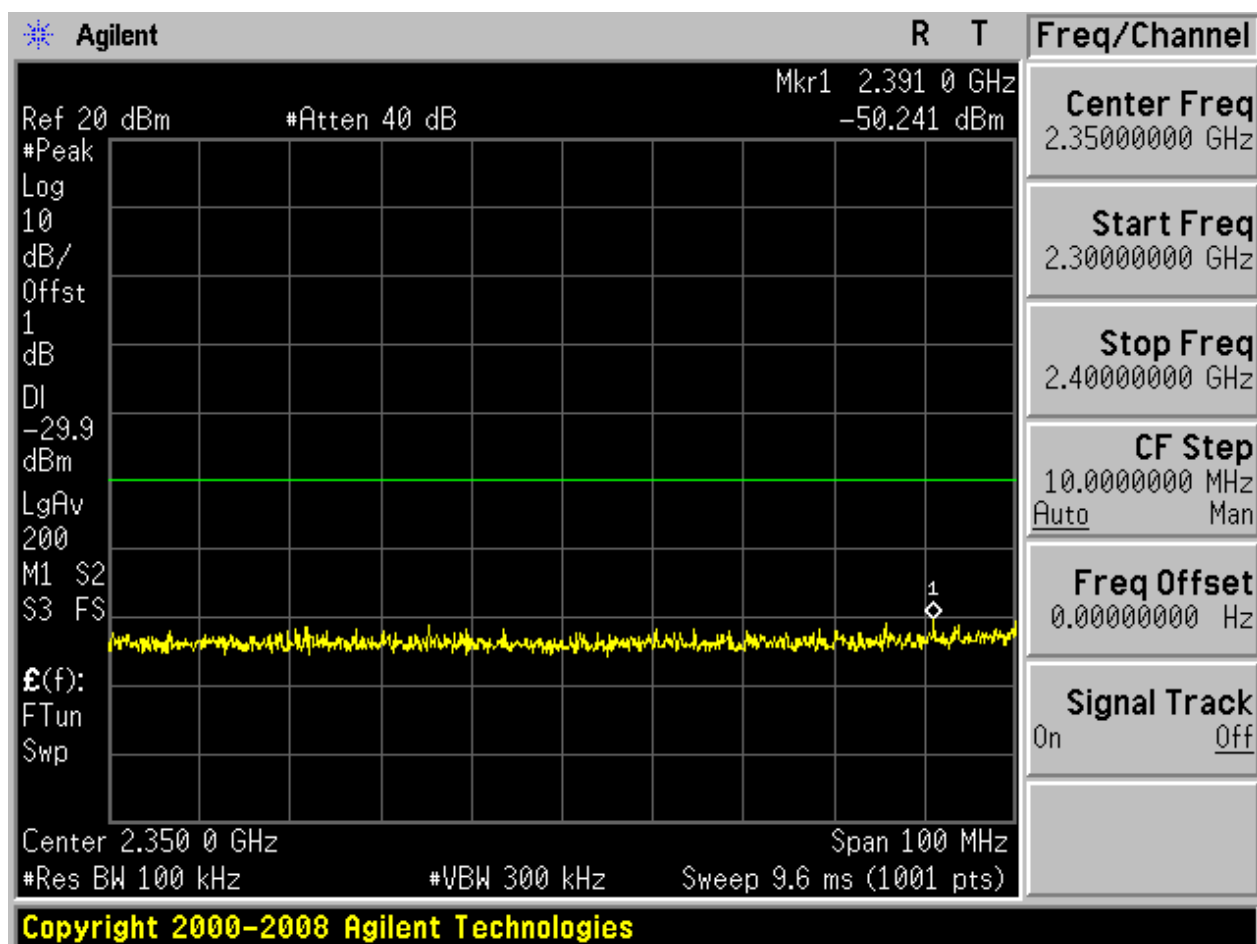


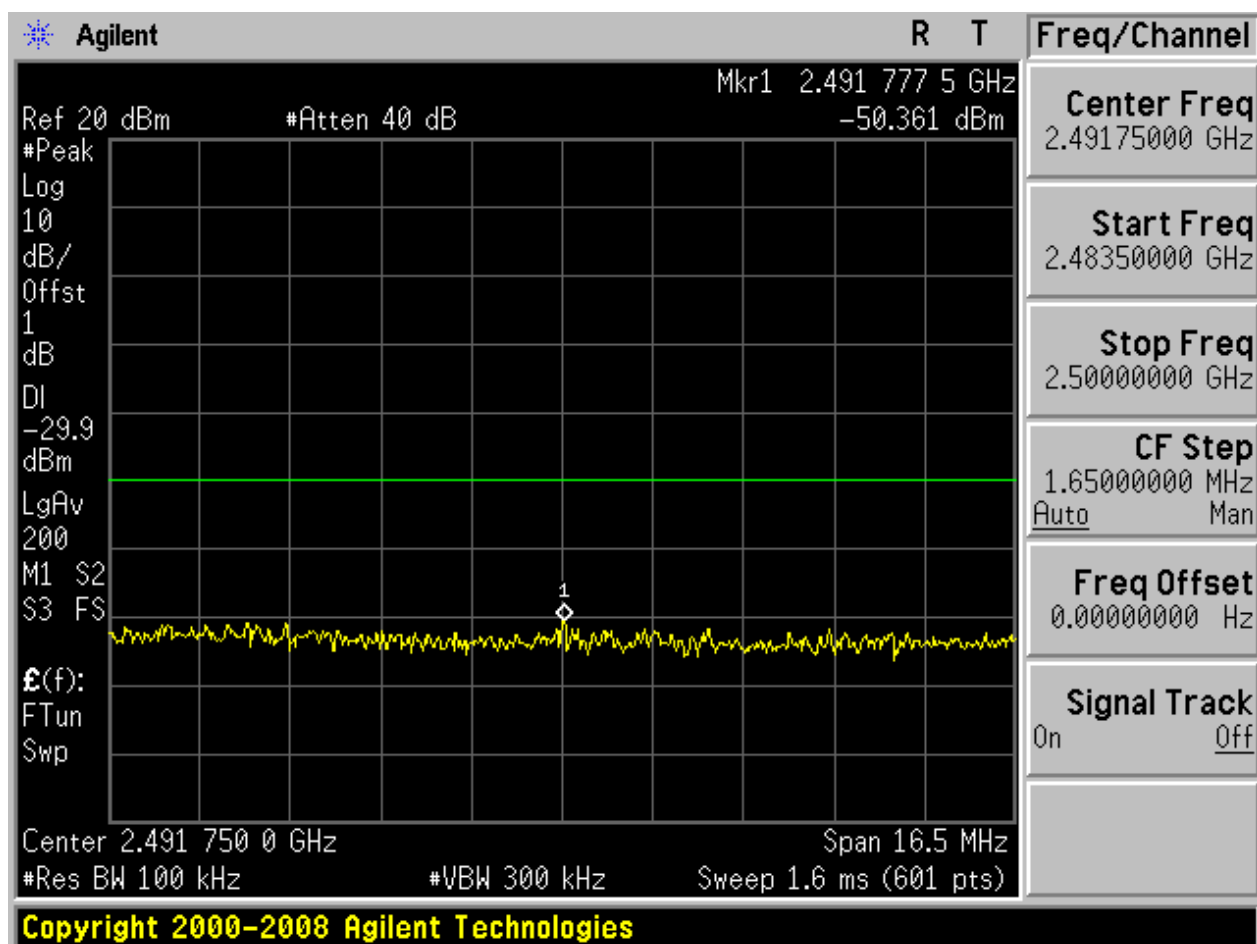
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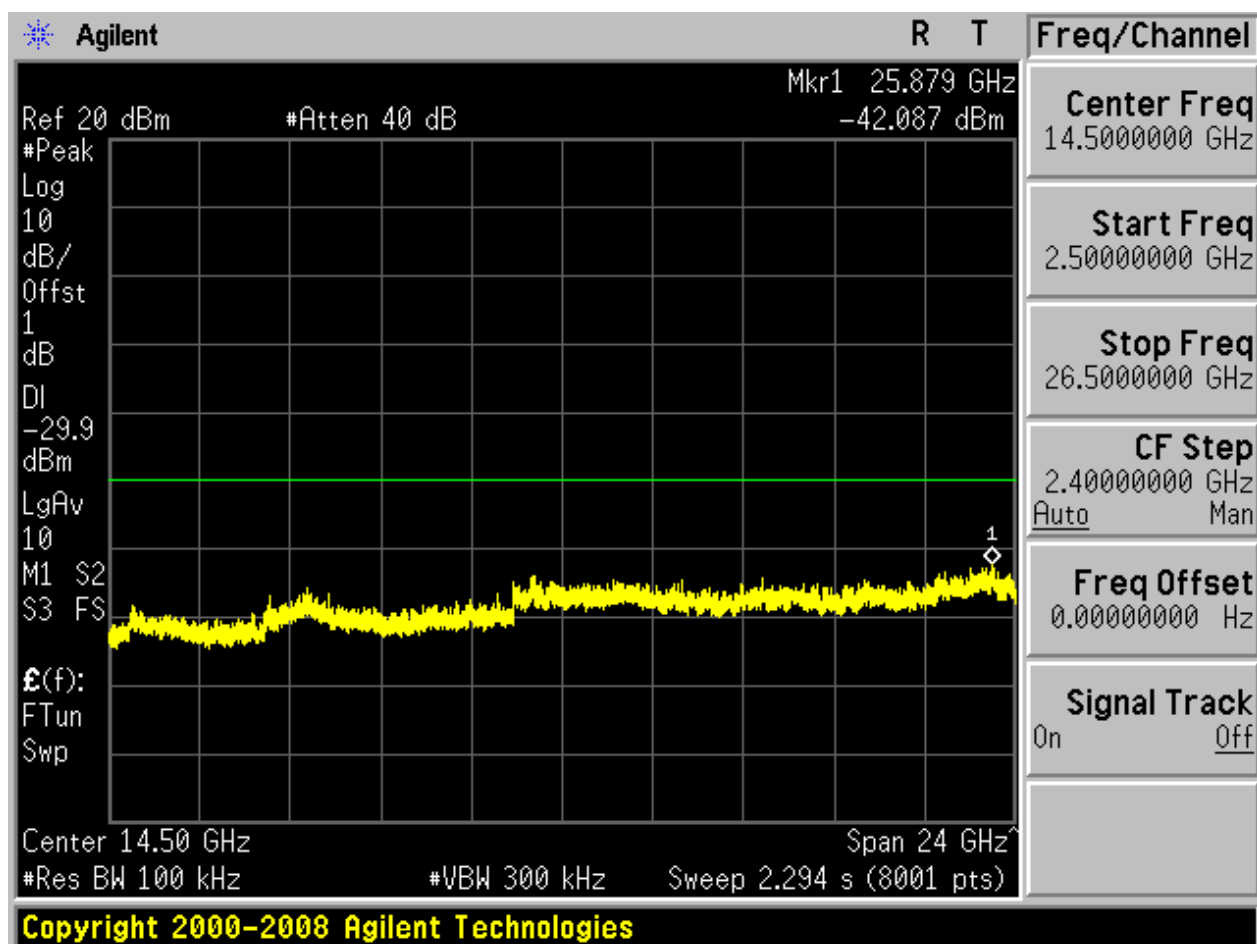






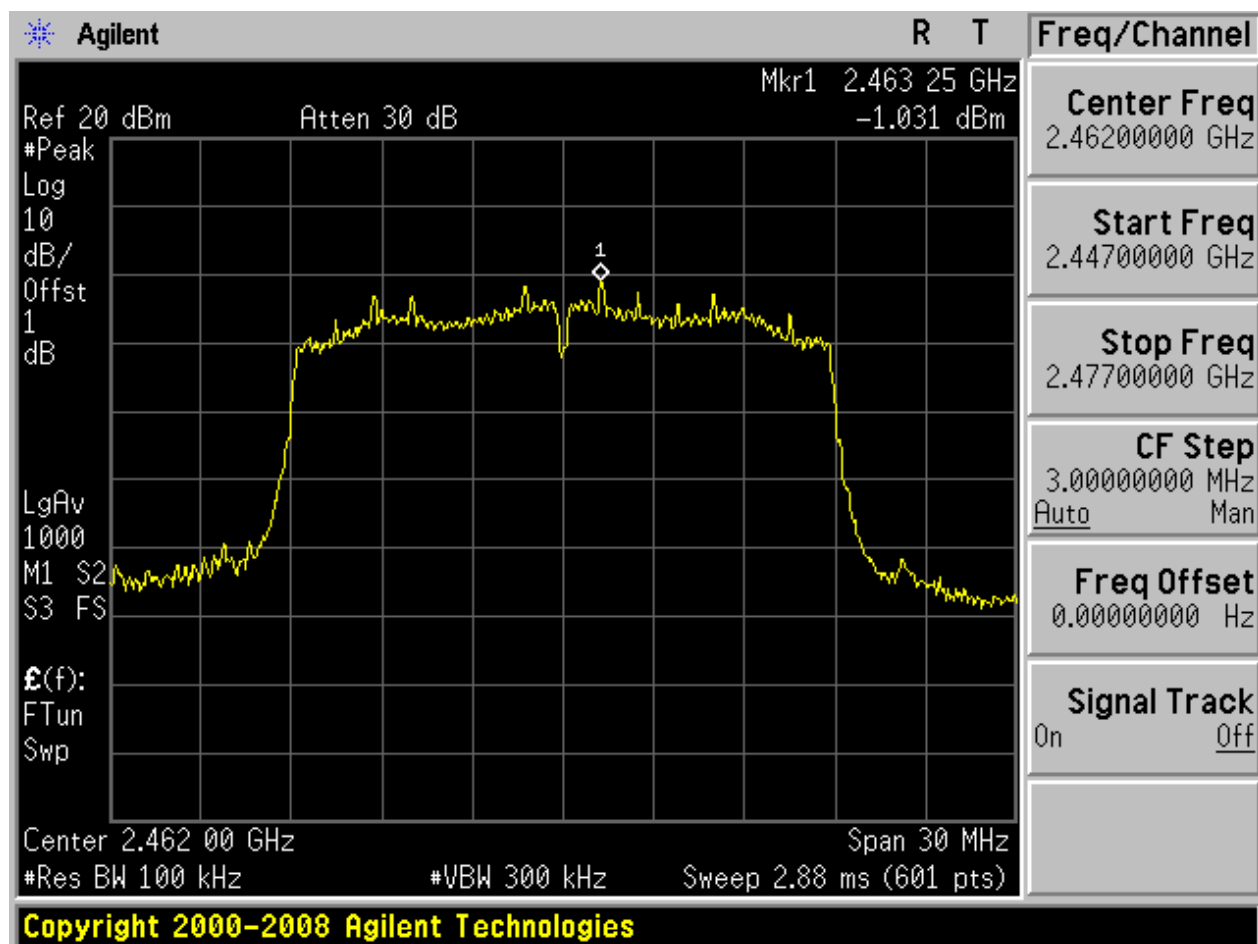






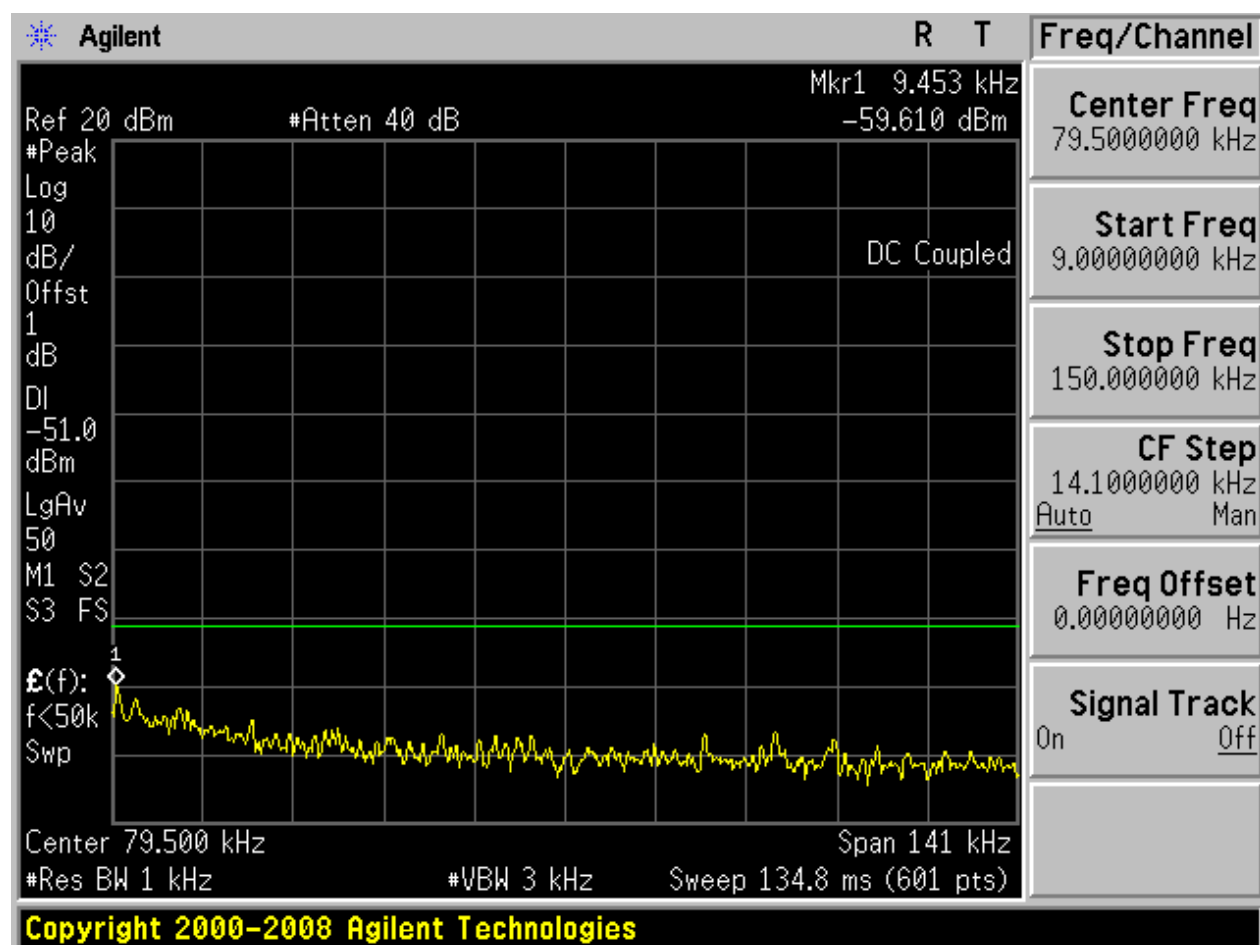
## 2.17 11N20m\_H@Ant 1

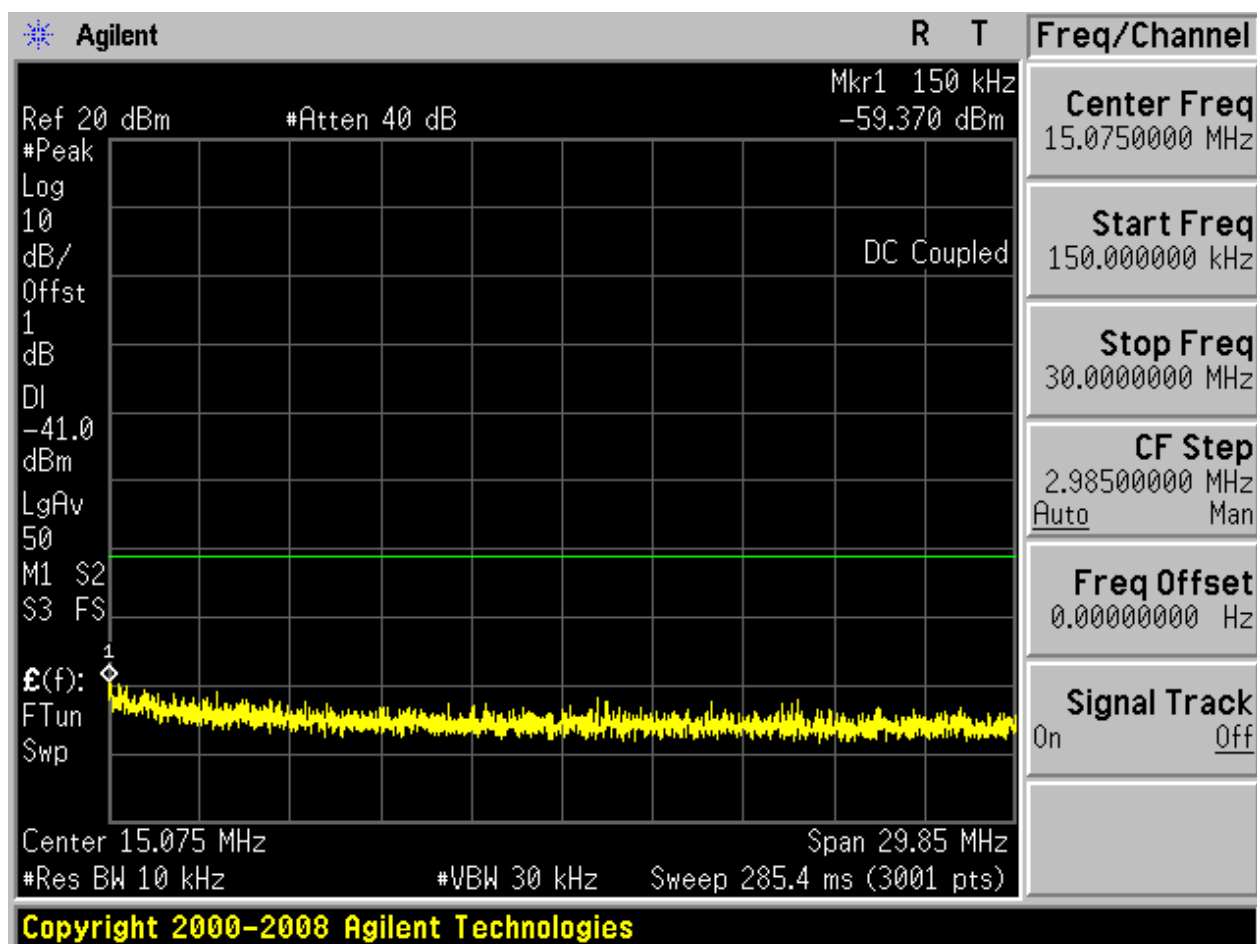
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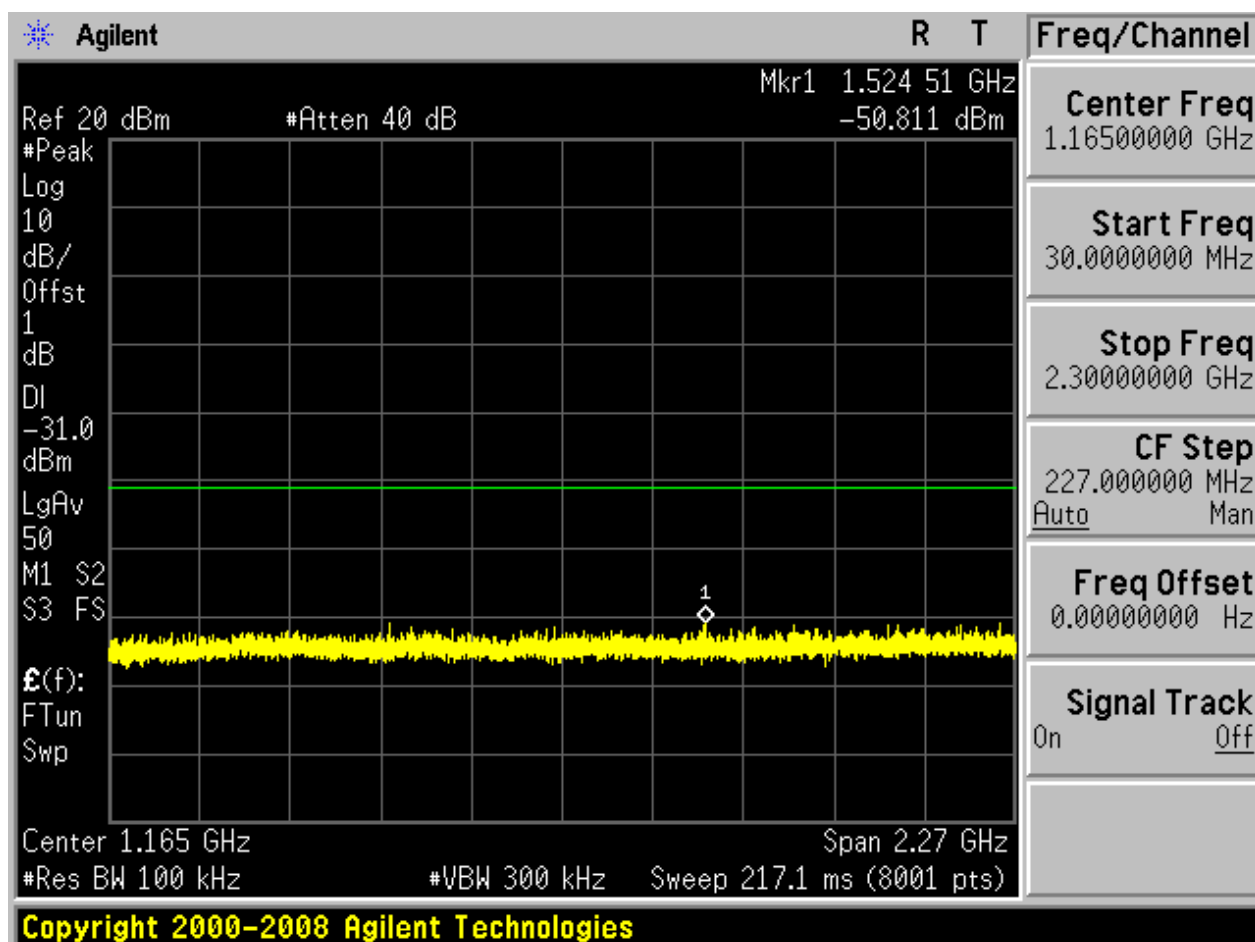


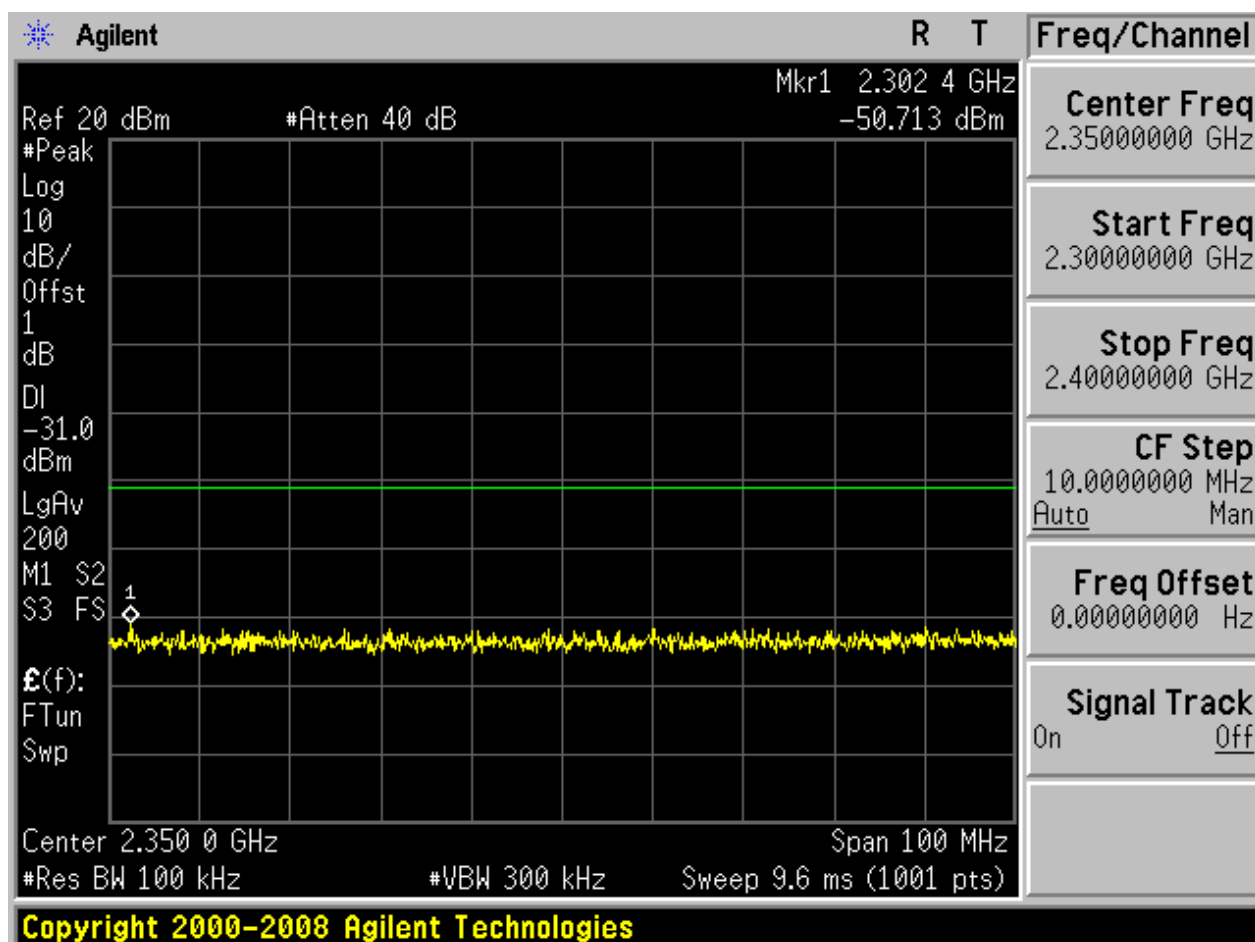


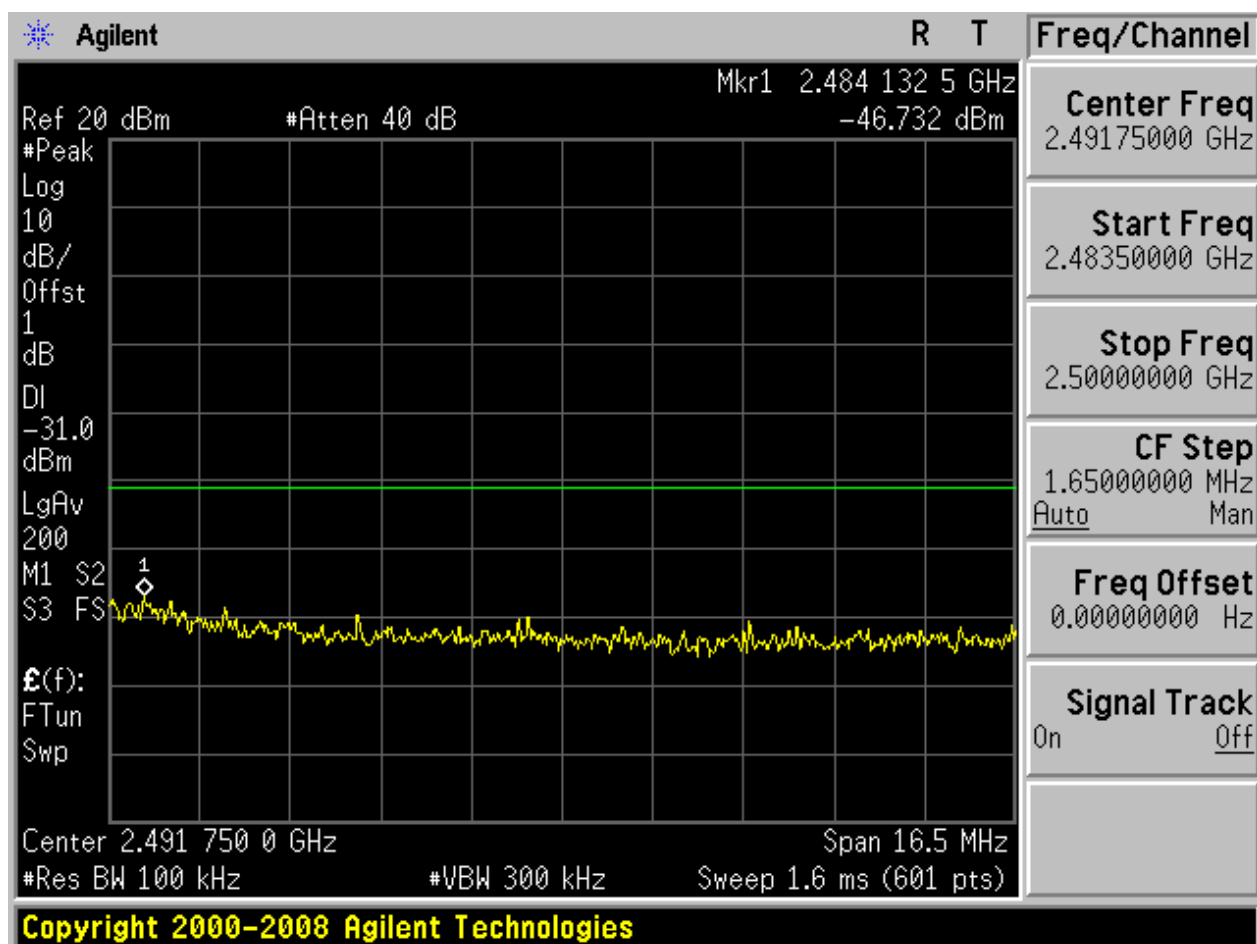
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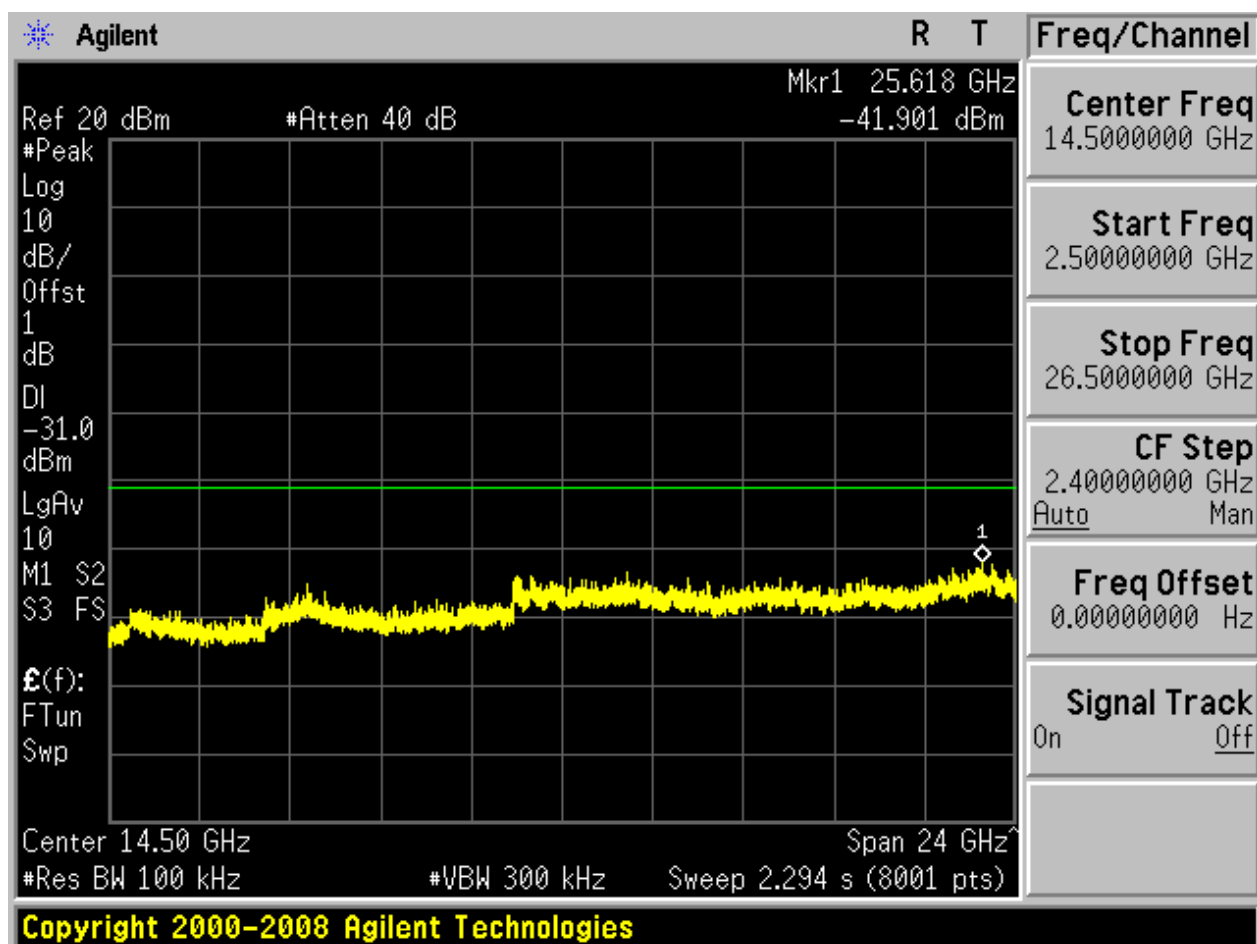






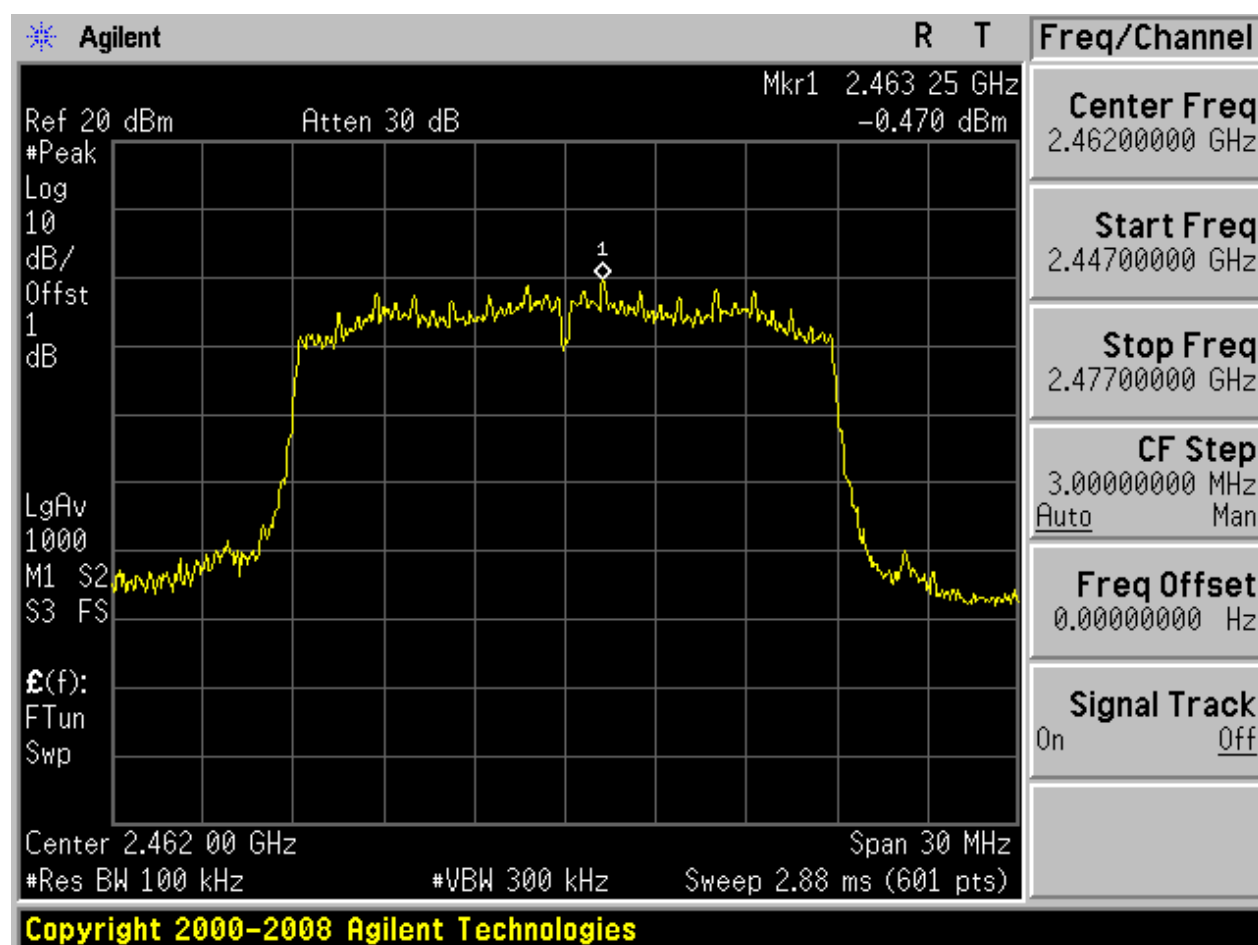






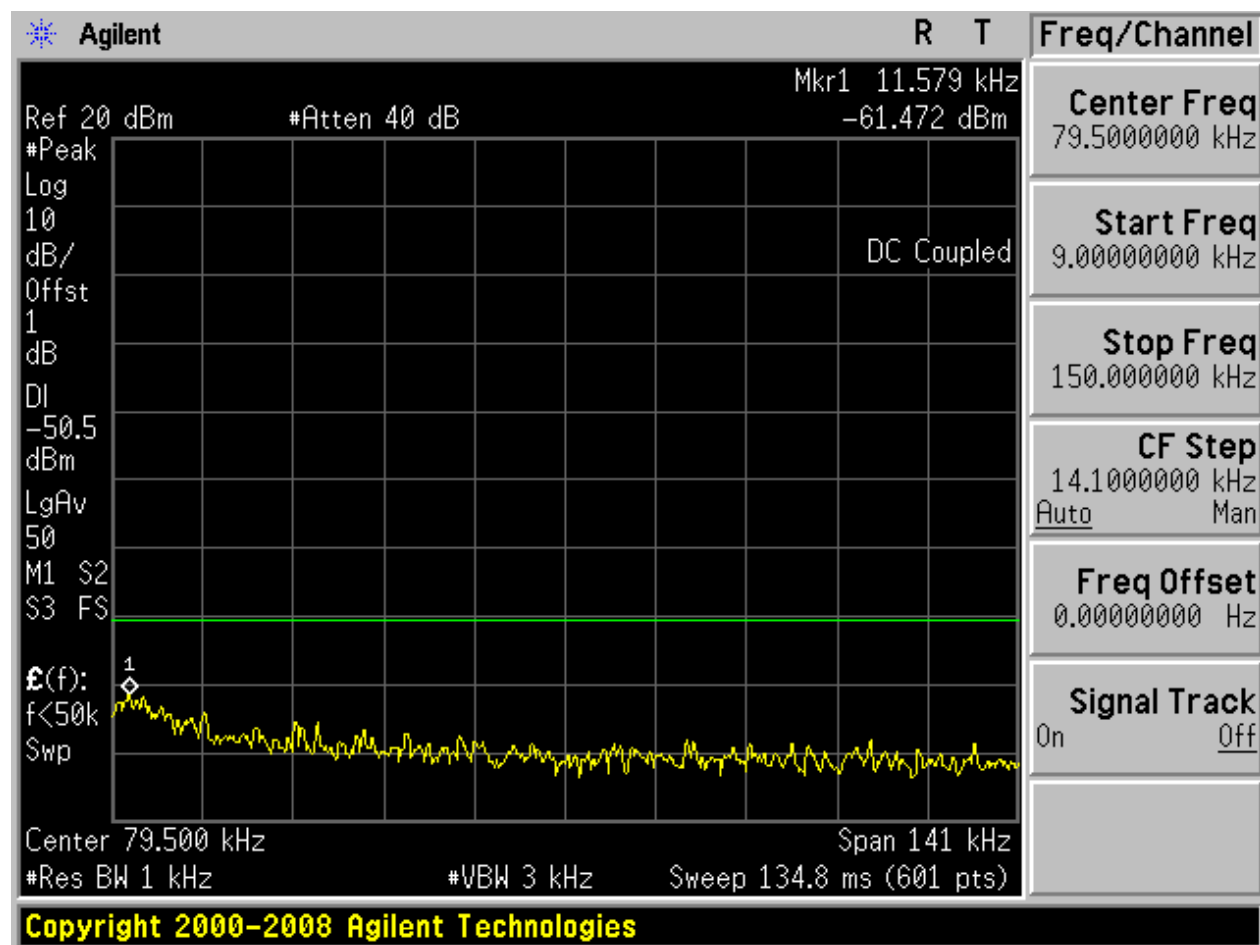
## 2.18 11N20m\_H@Ant 2

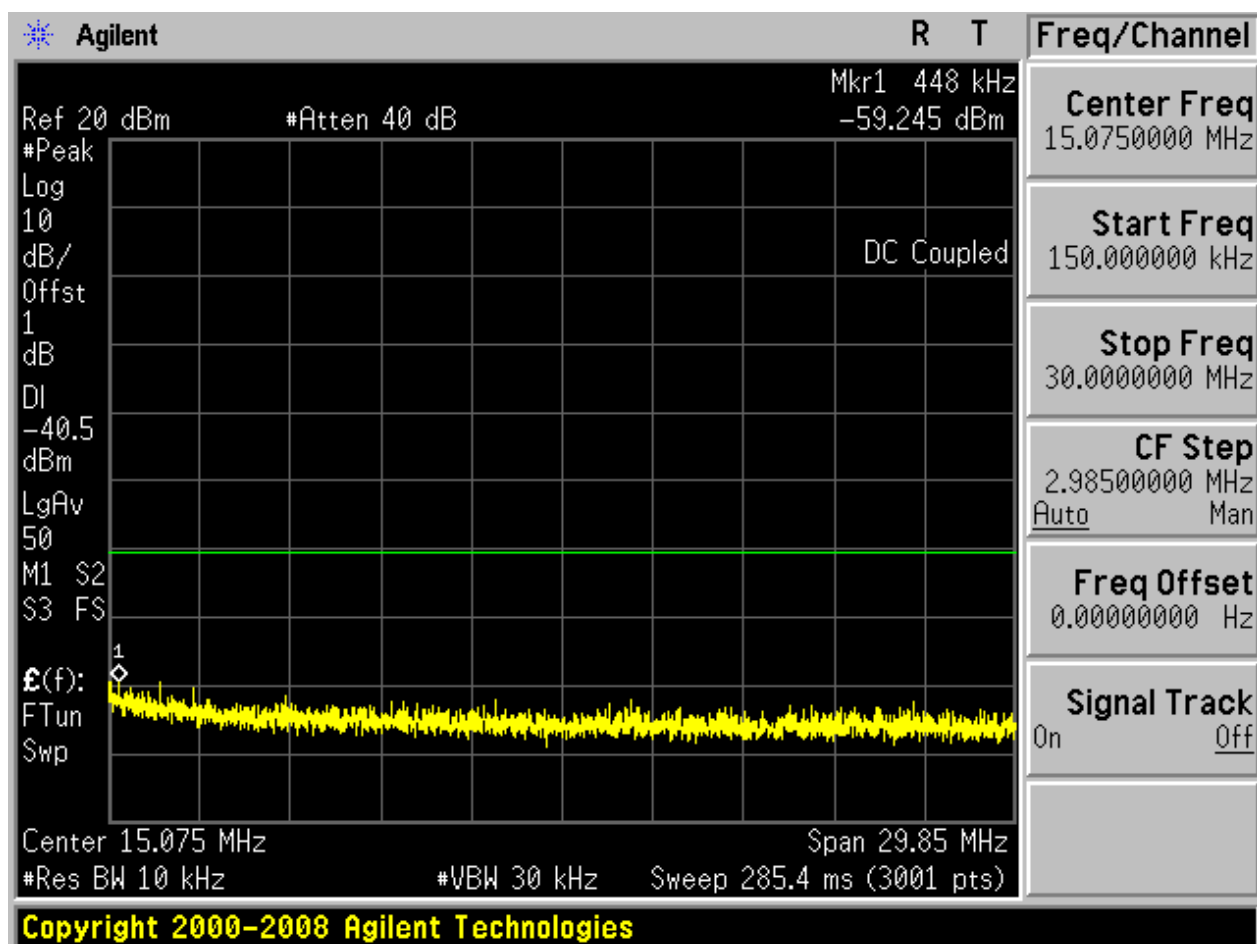
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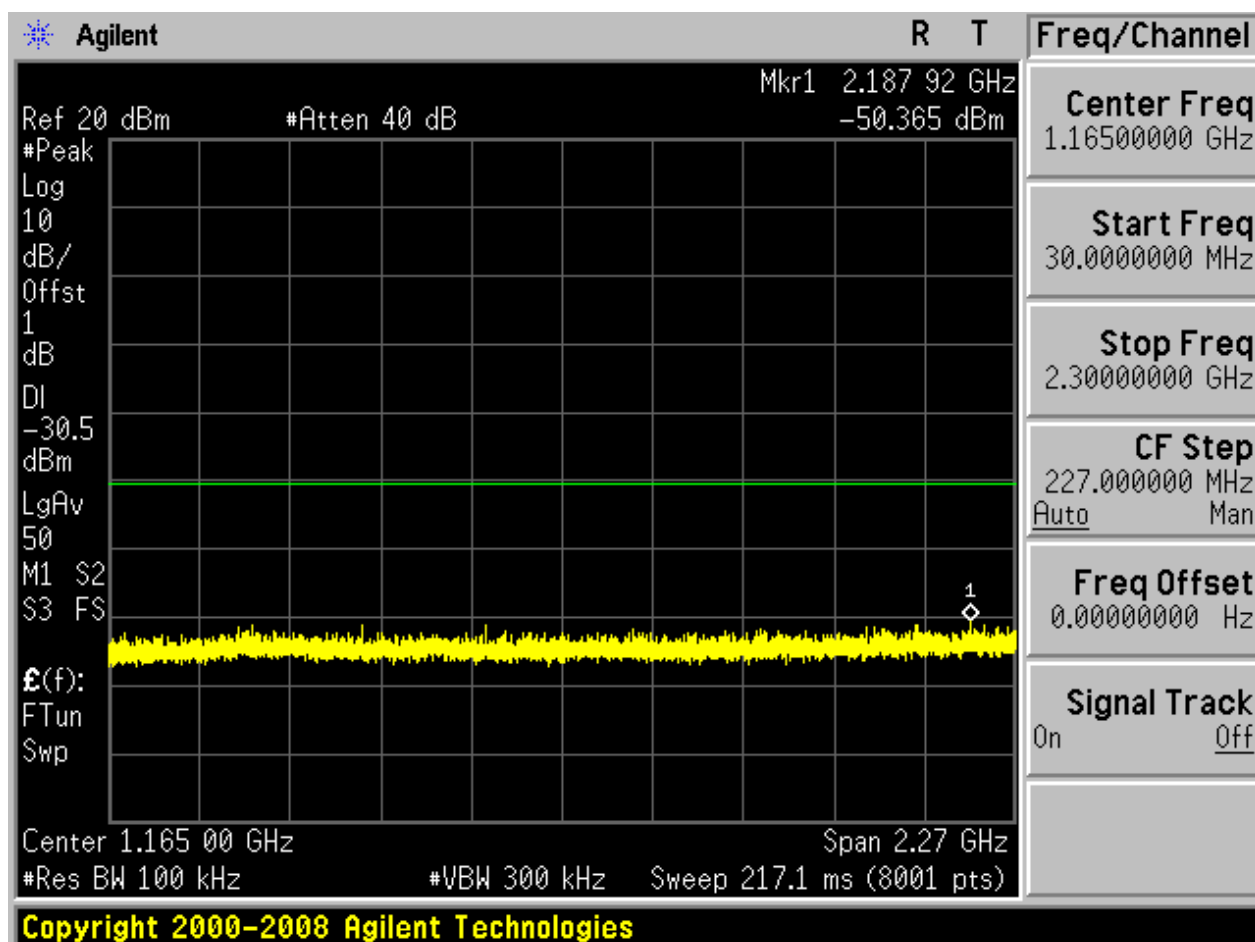


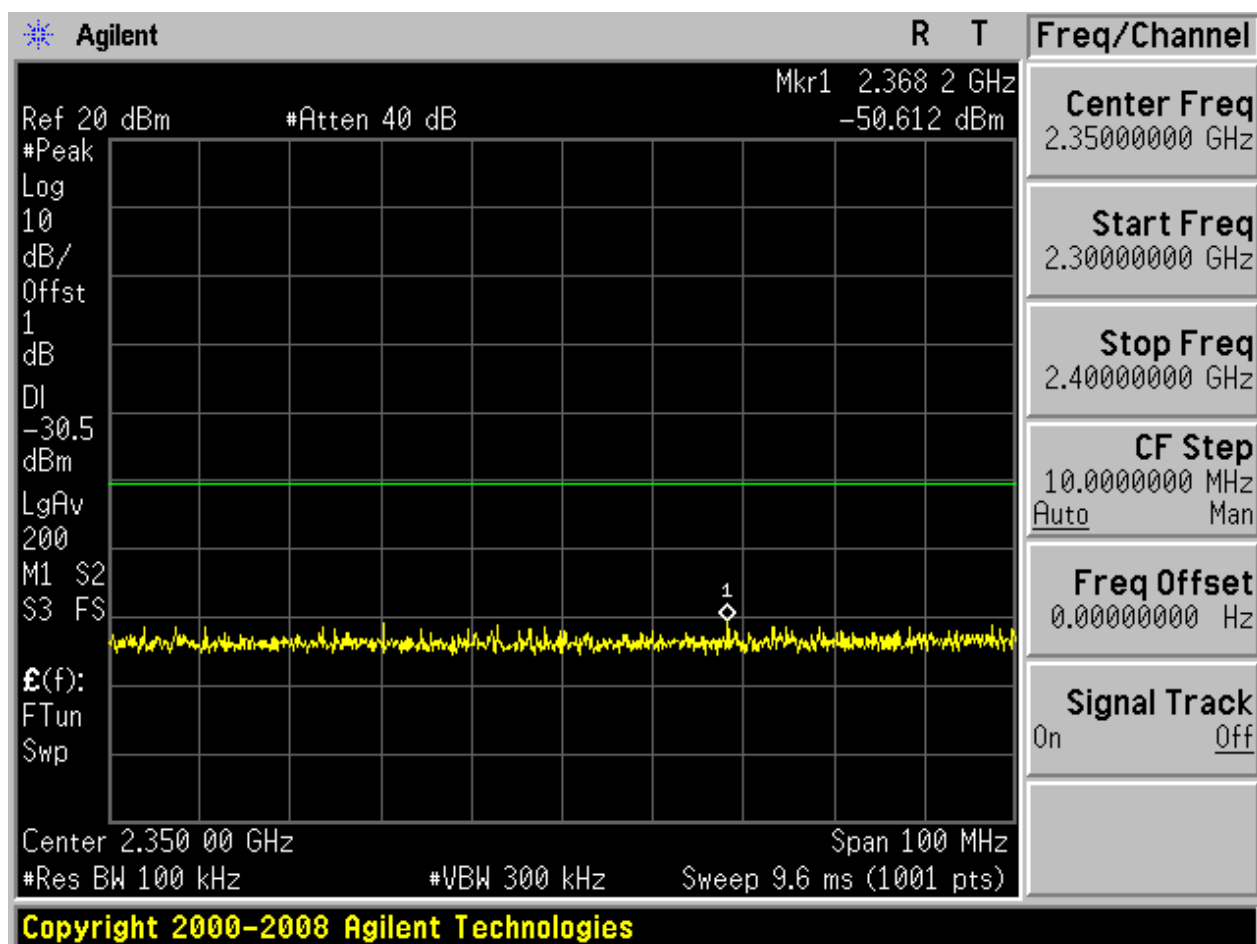


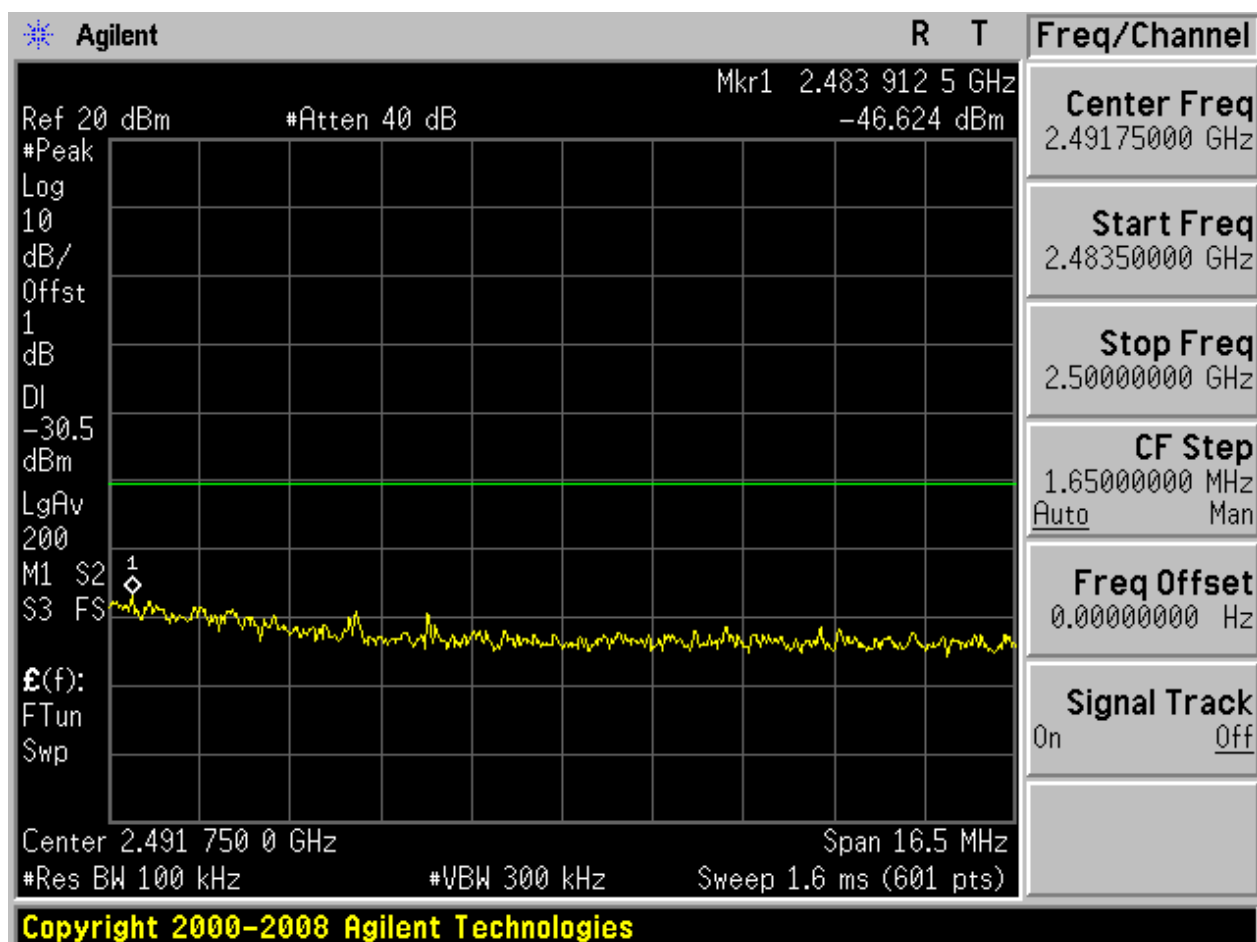
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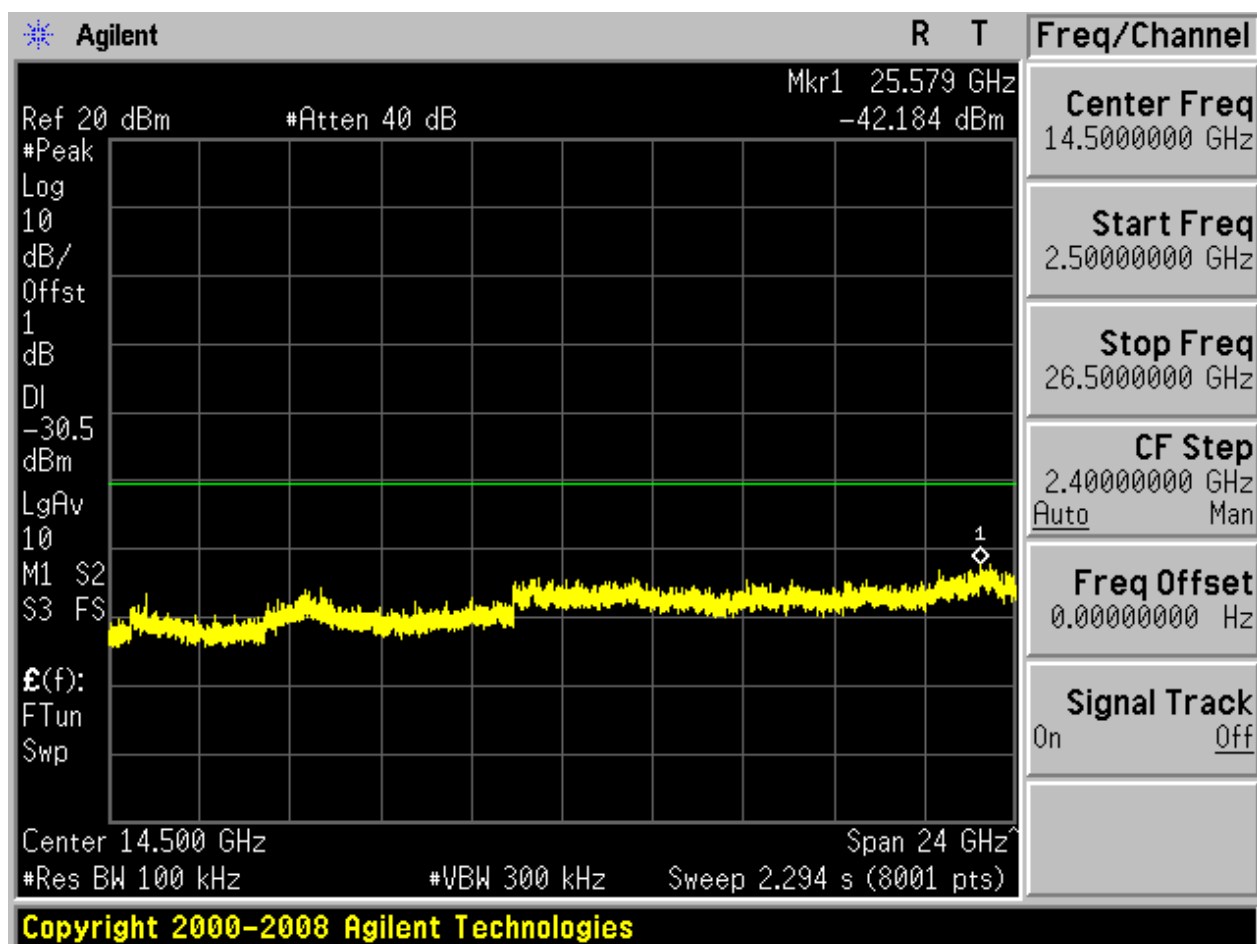






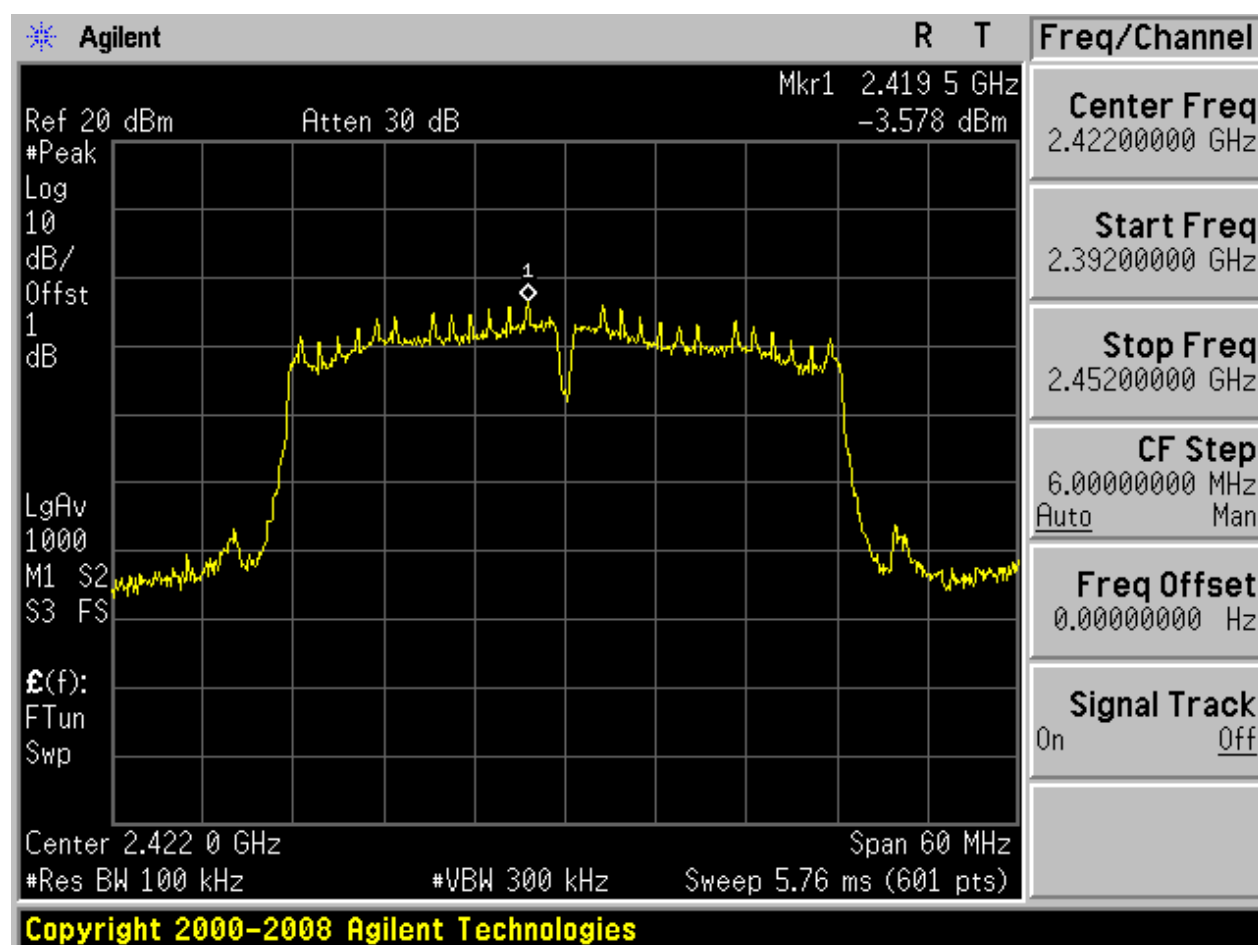






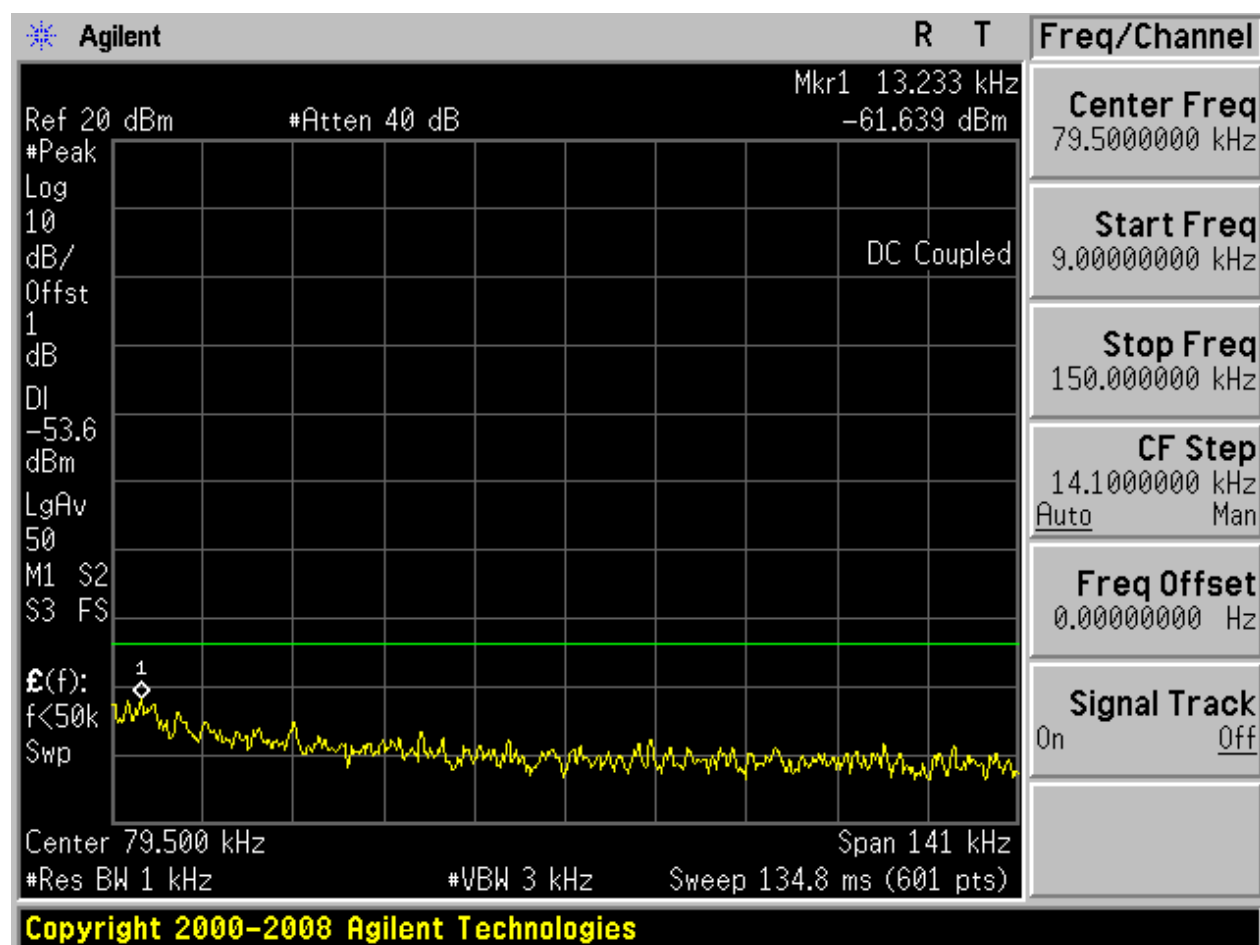
## 2.19 11N40\_L@Ant 1

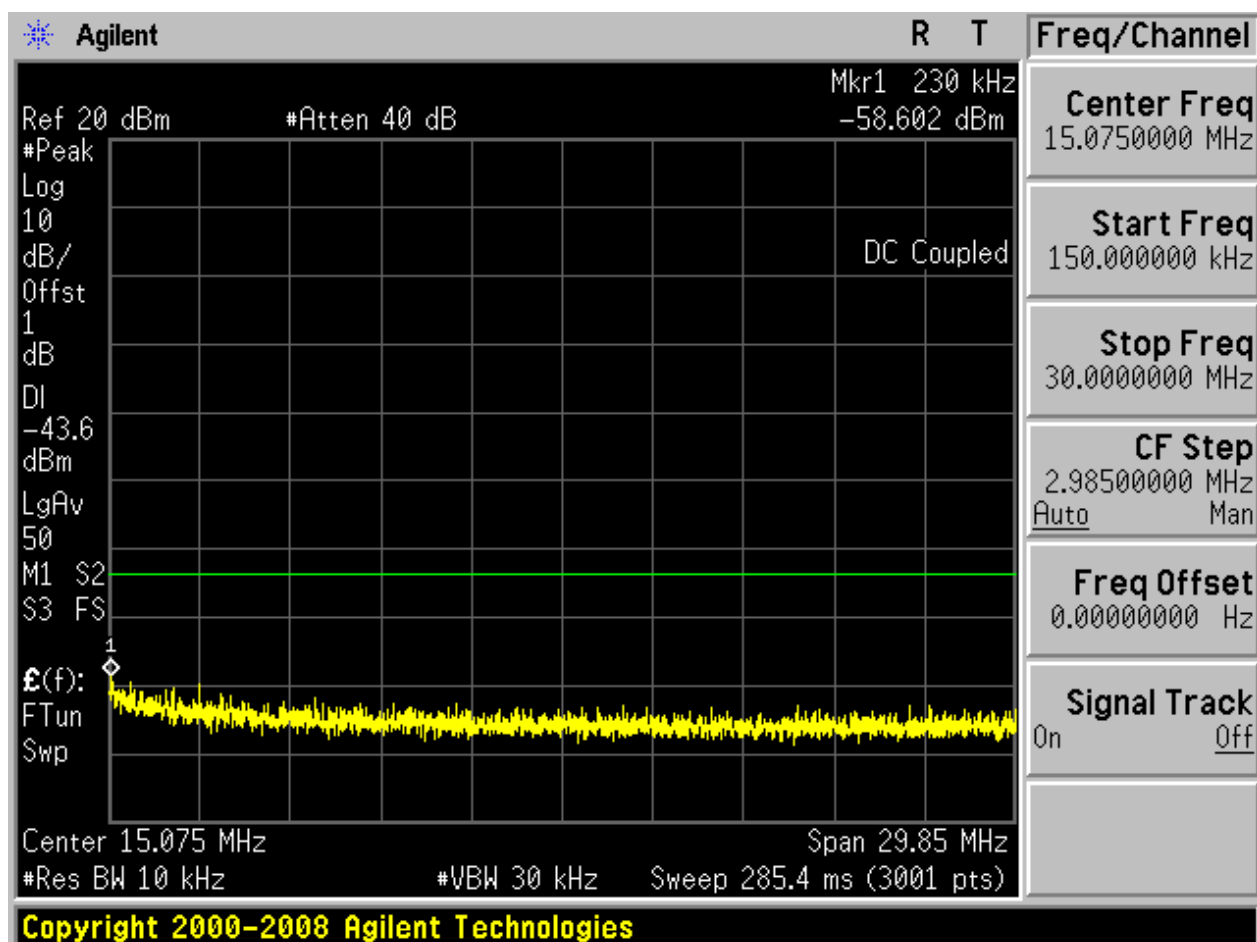
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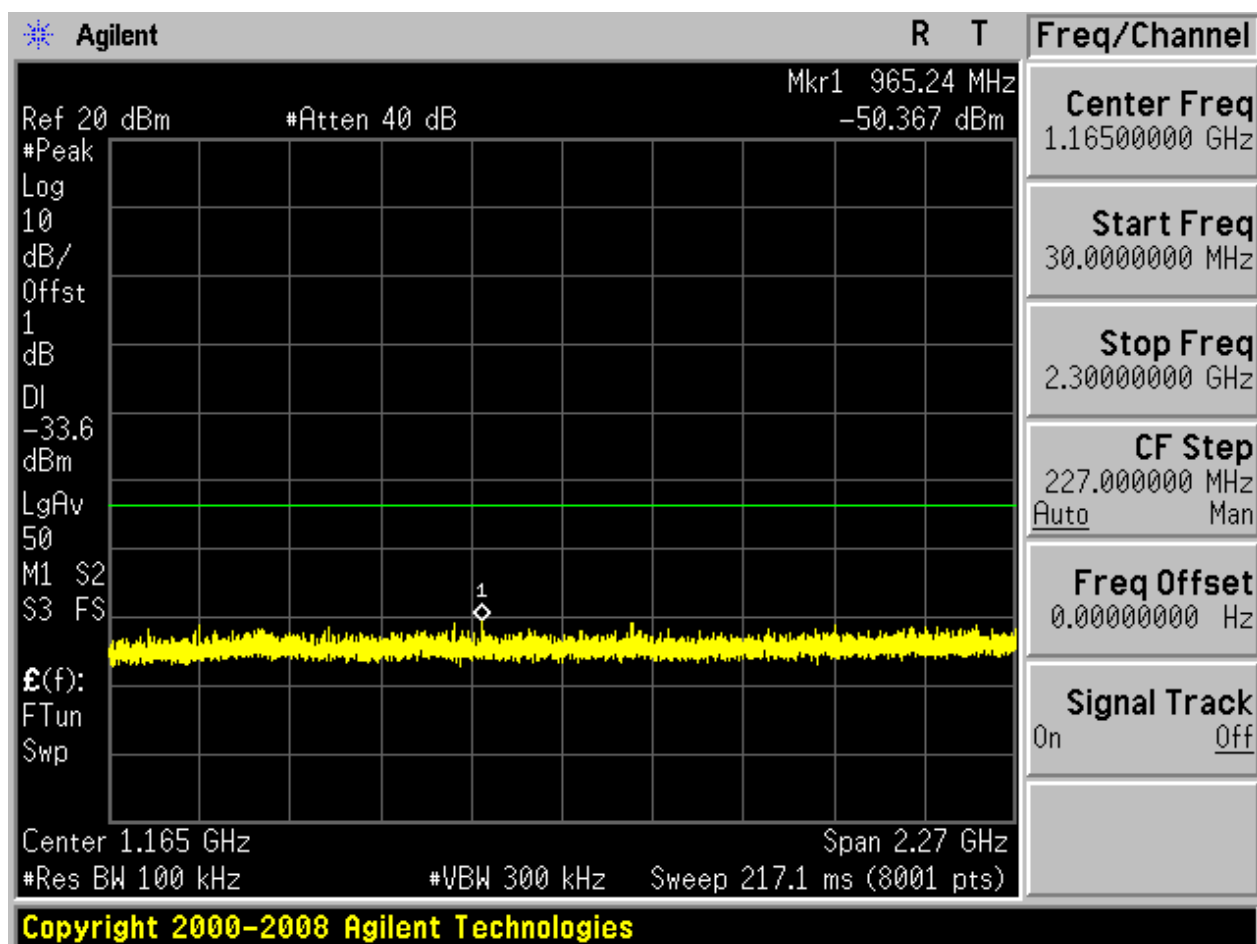


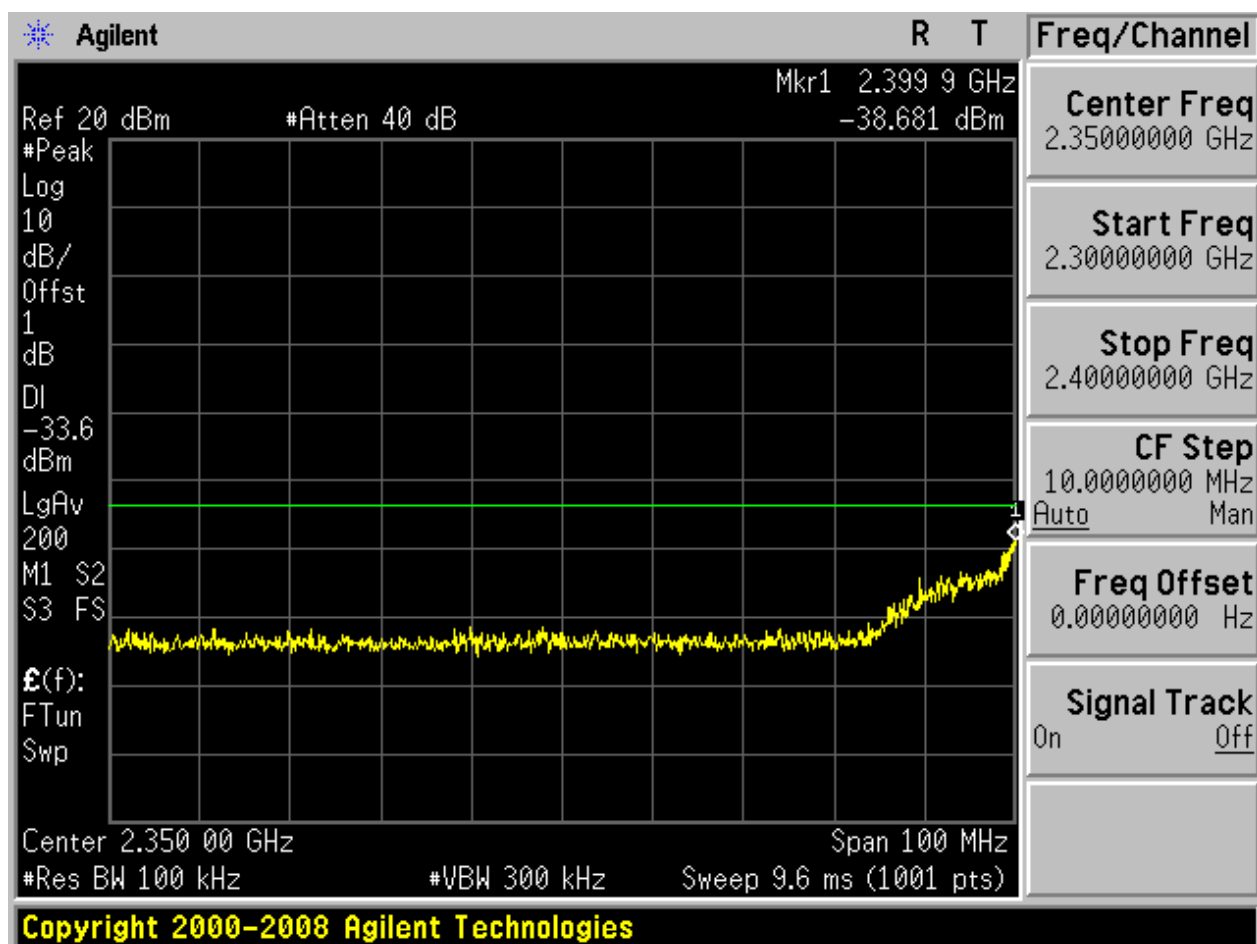


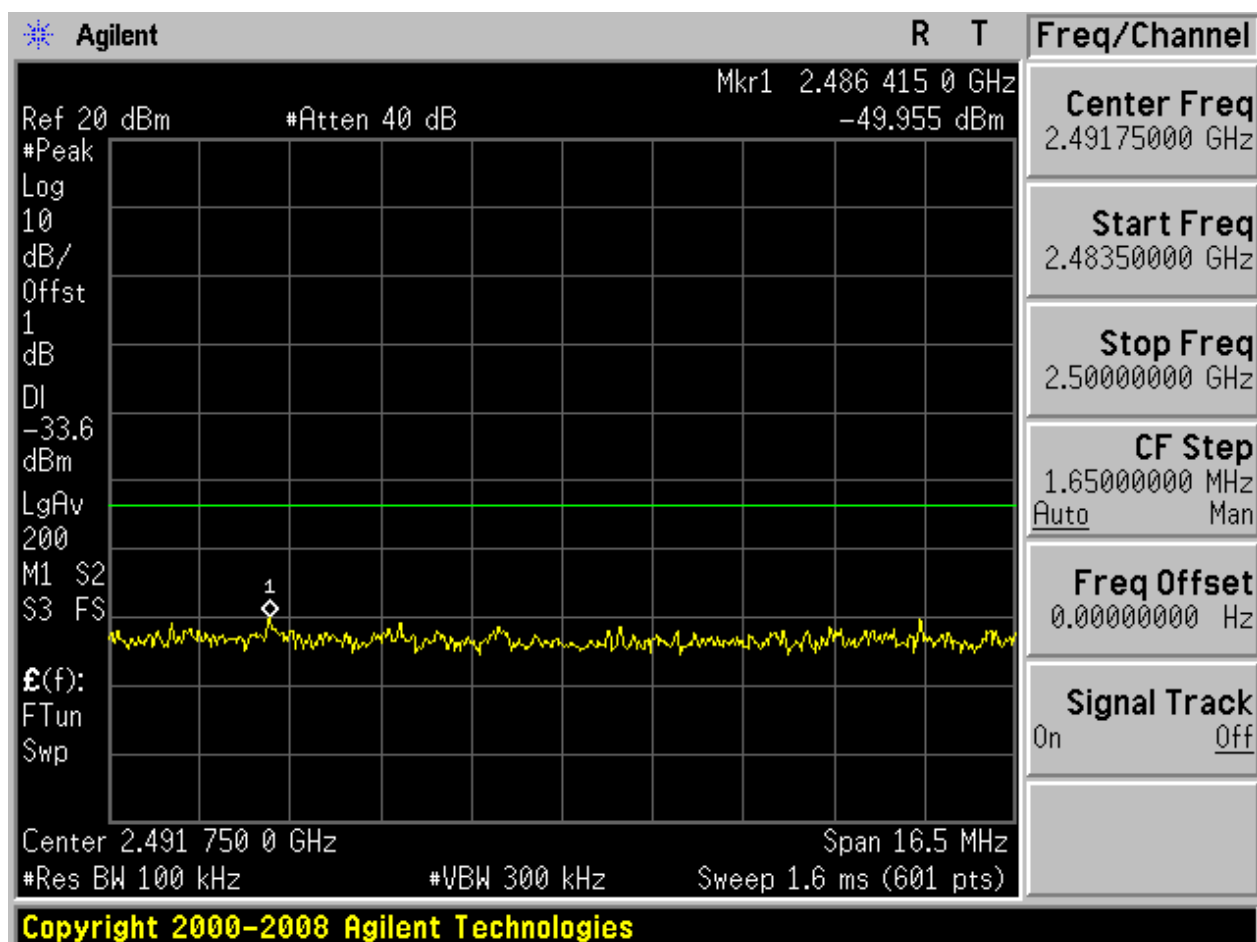
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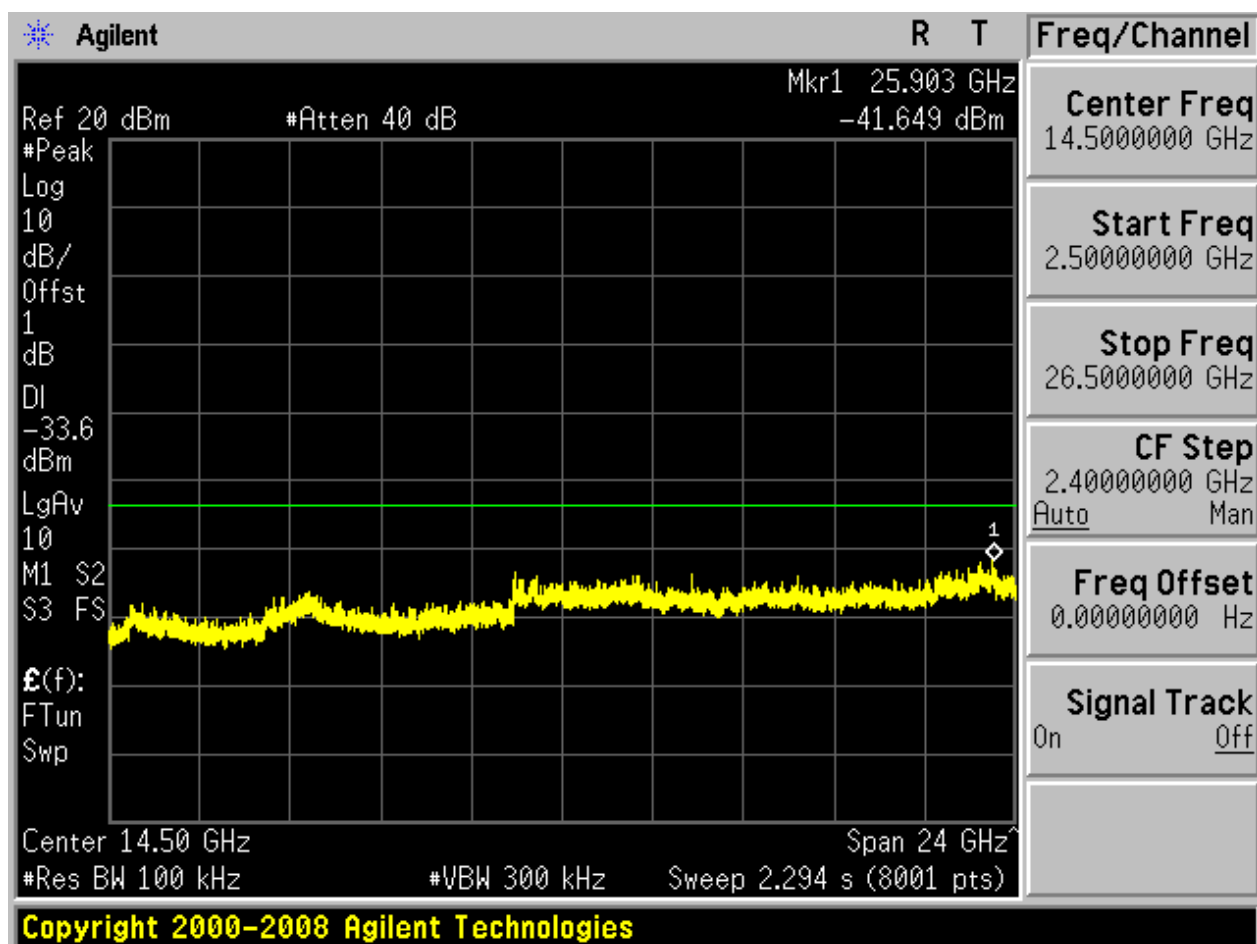






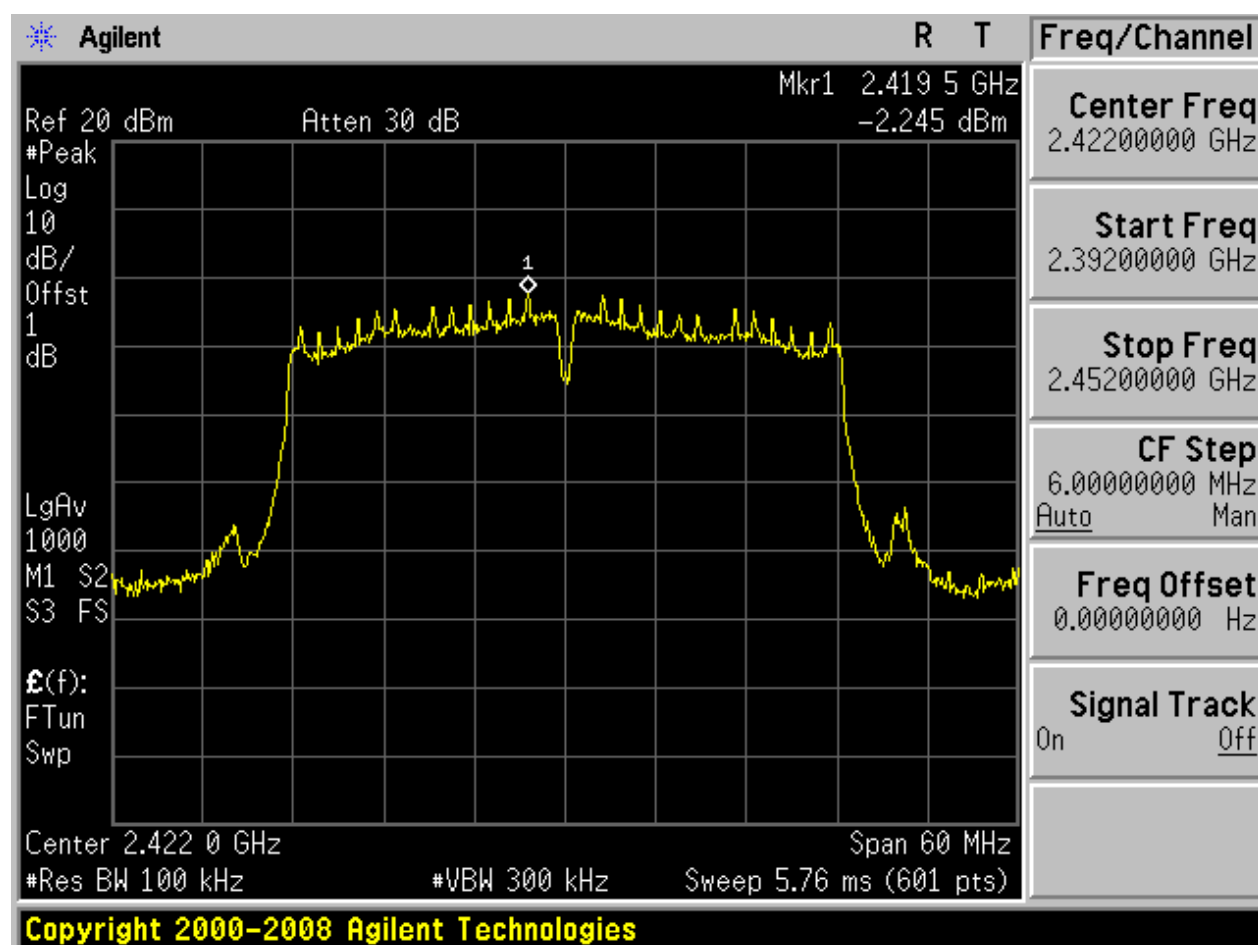






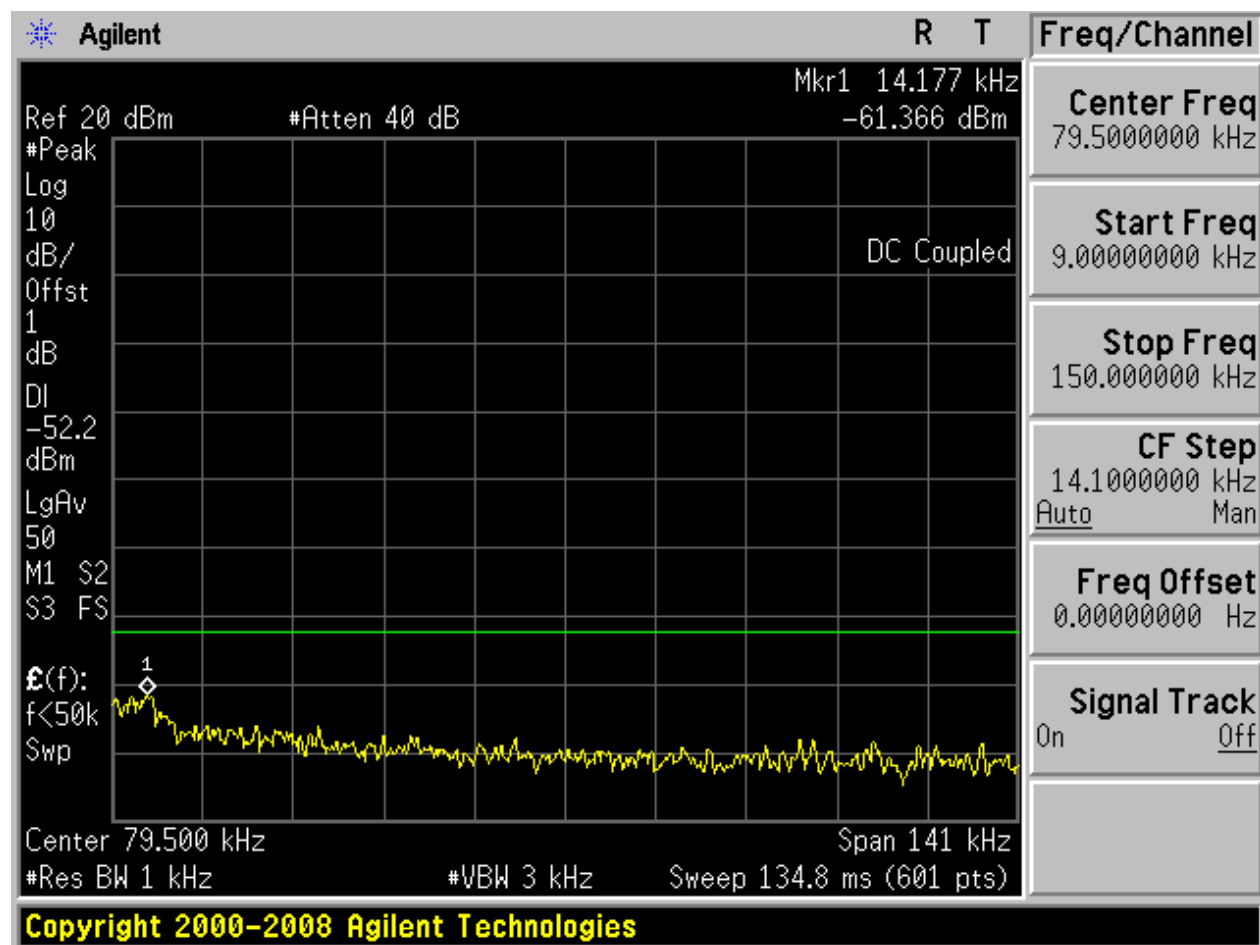
## 2.20 11N40\_L@Ant 2

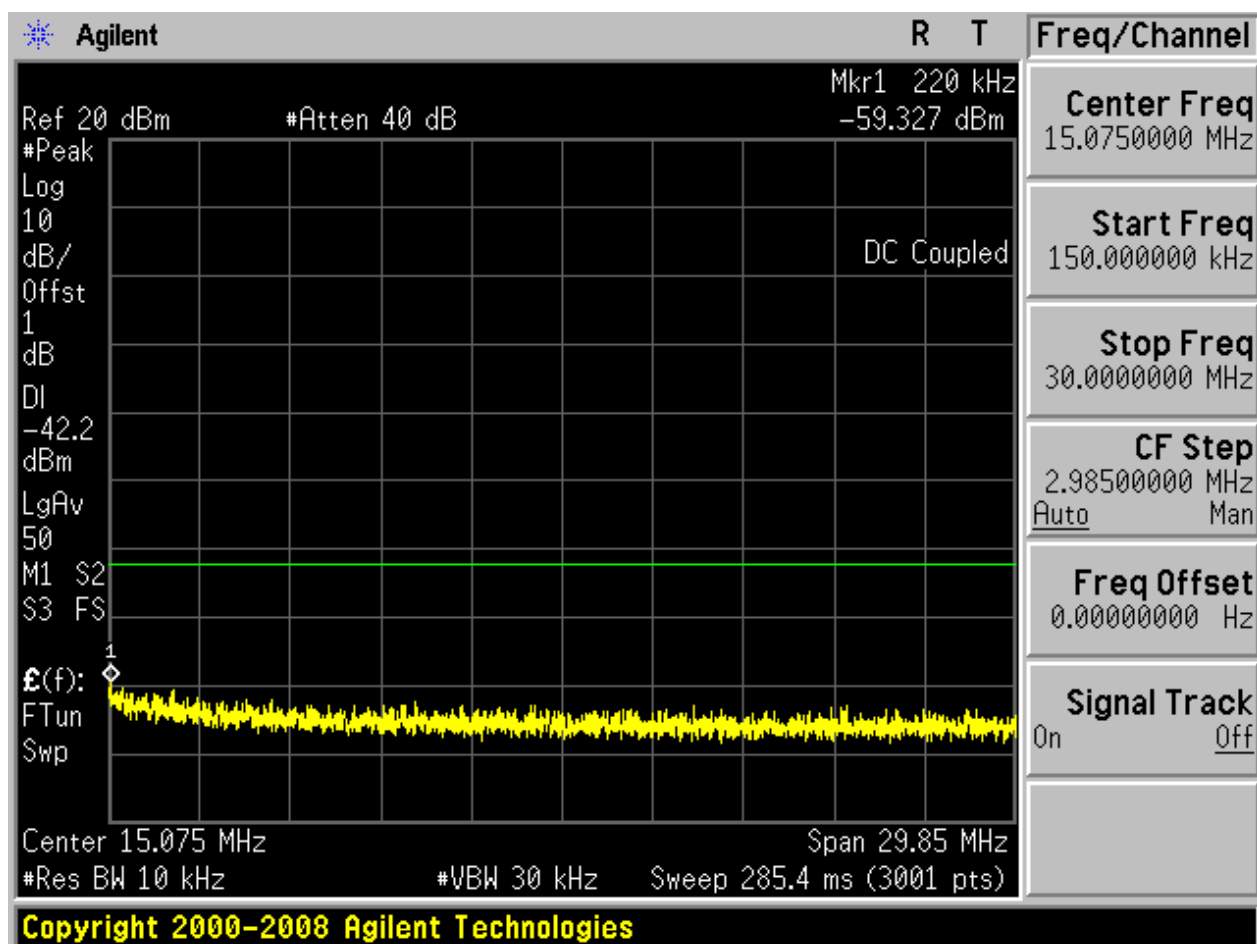
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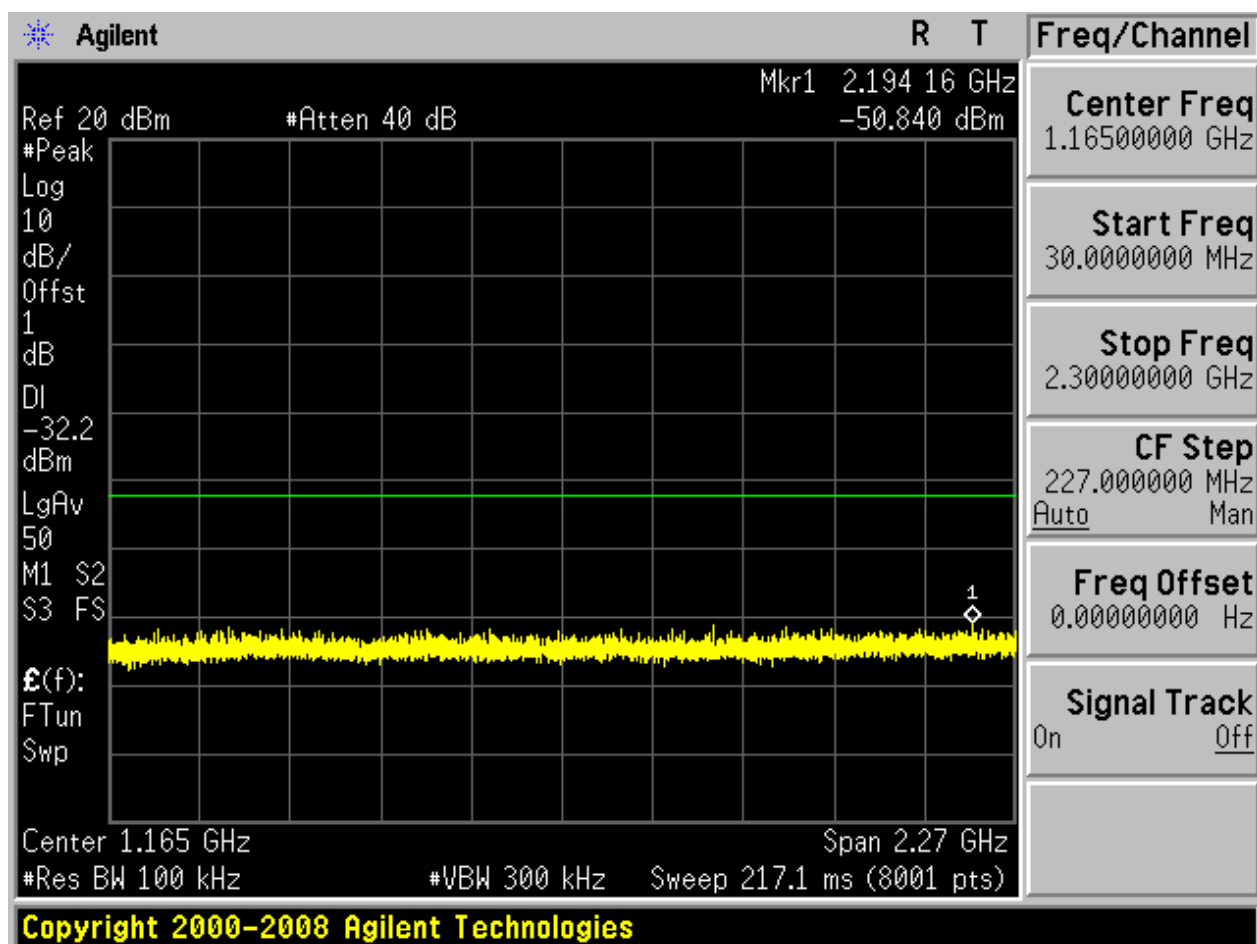


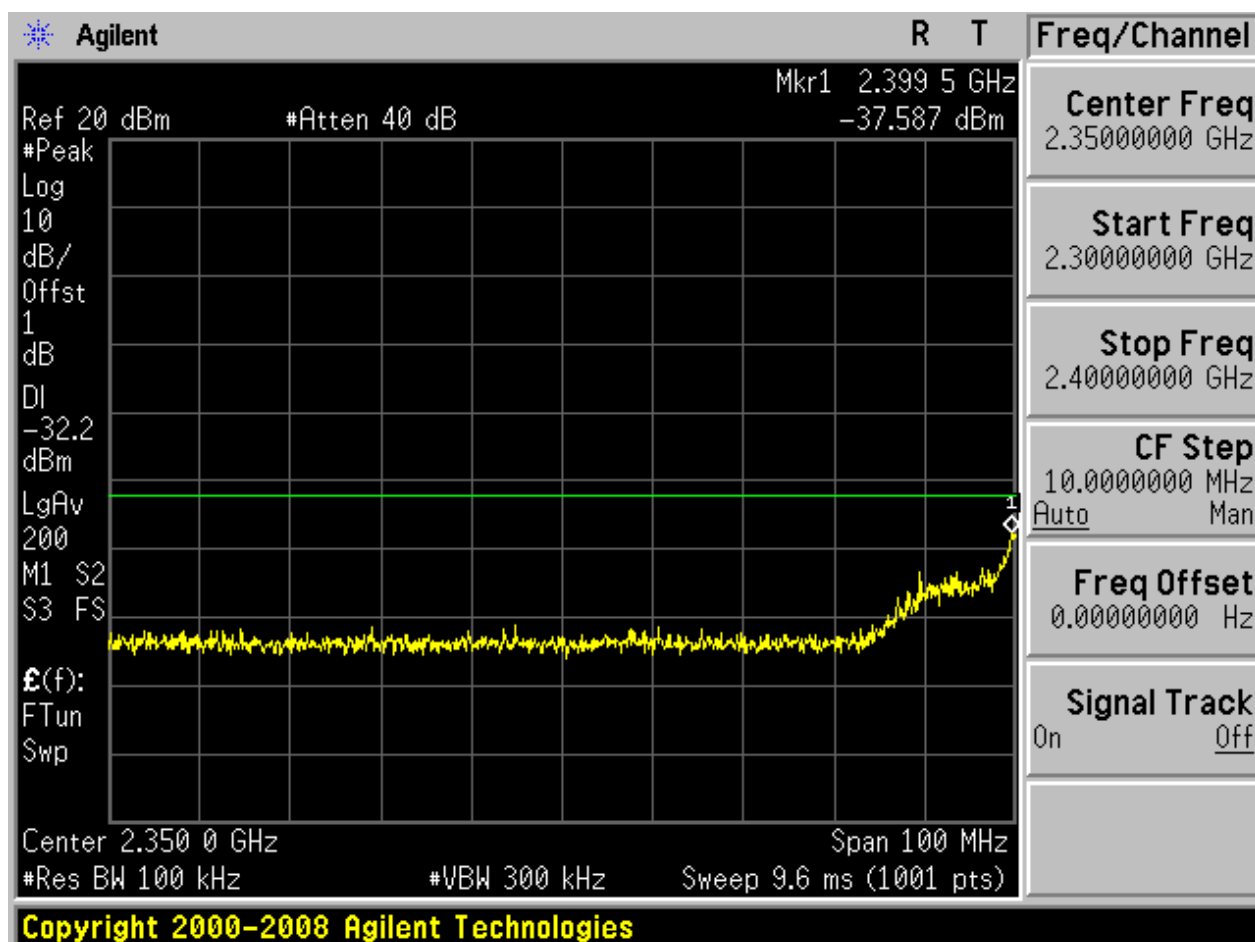


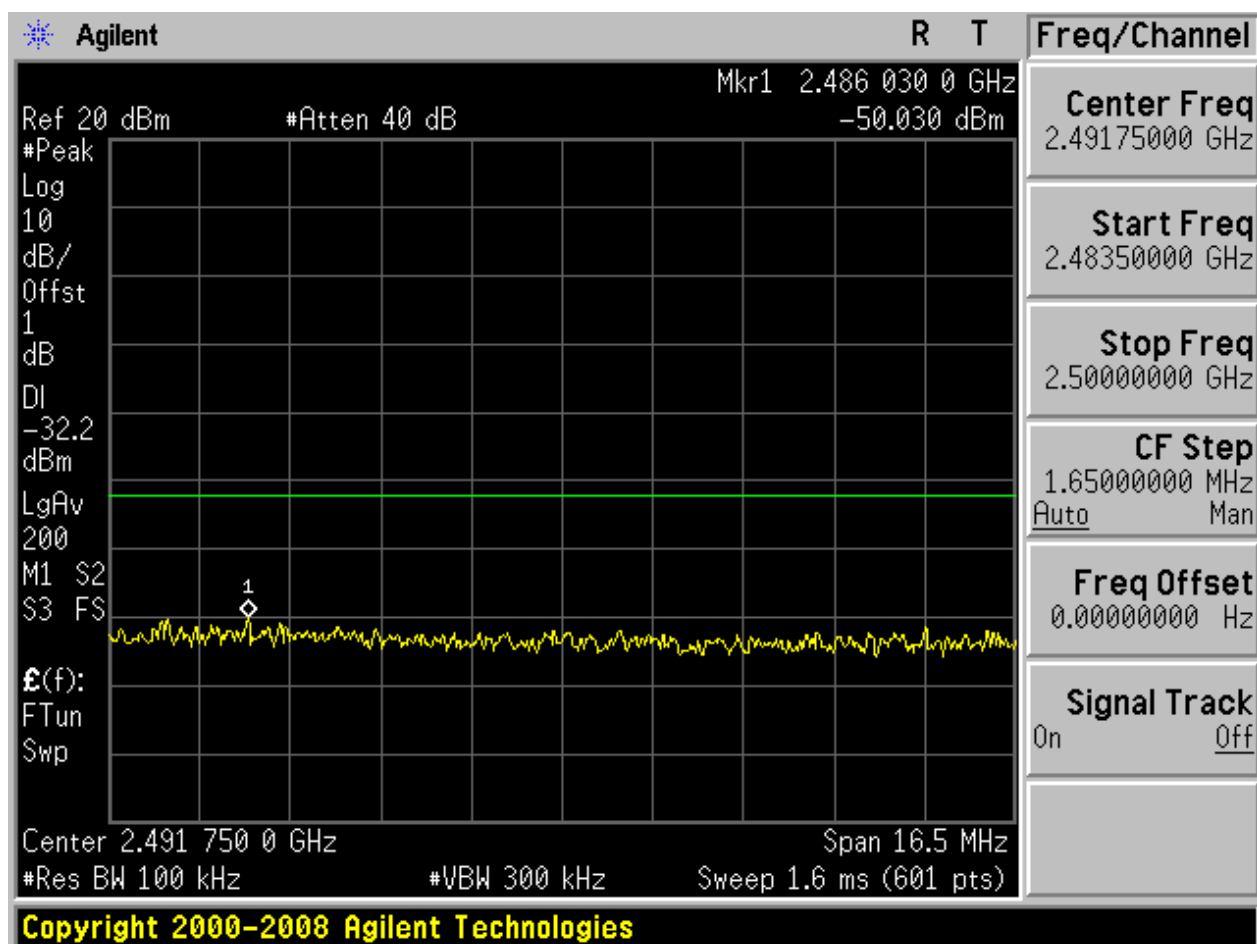
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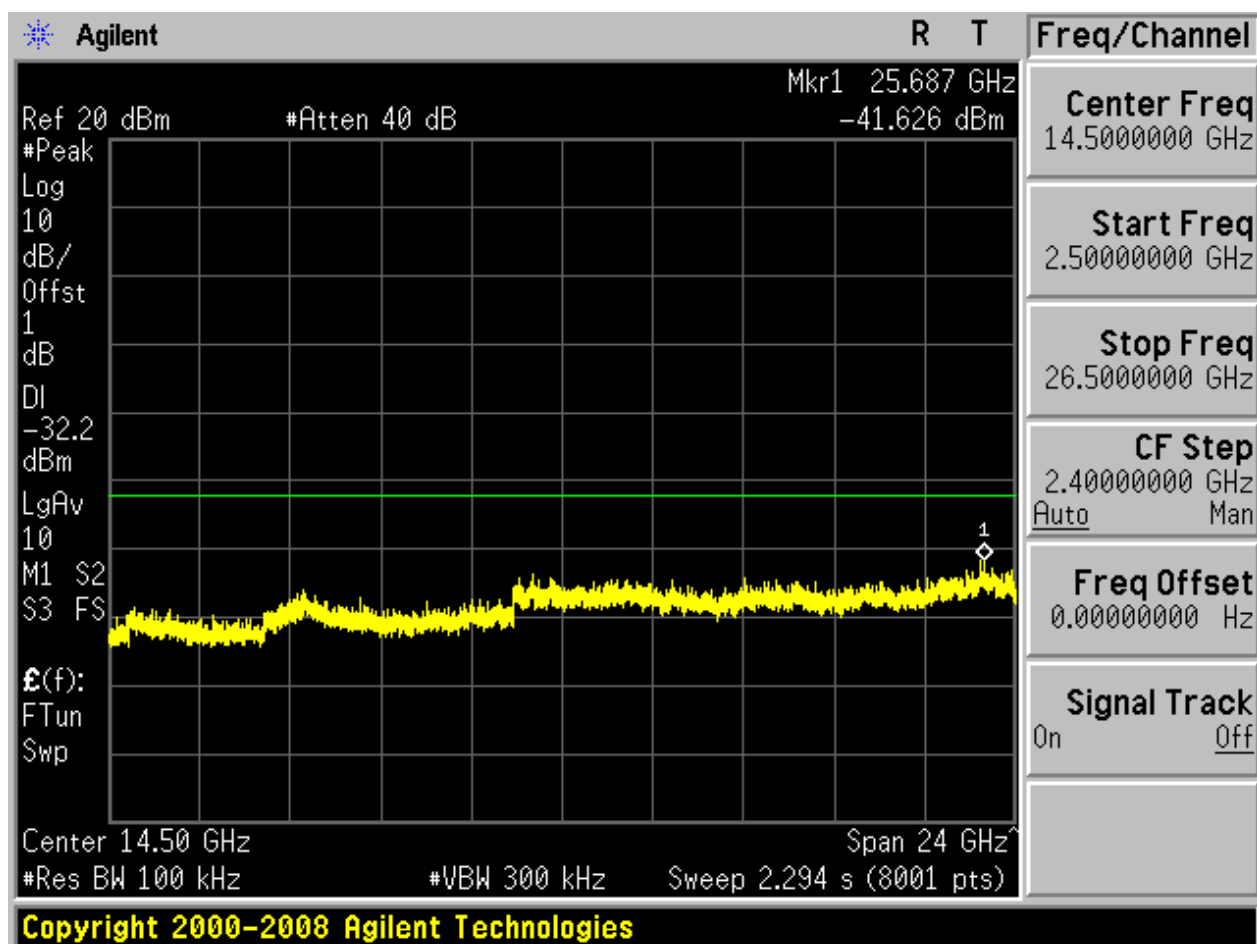






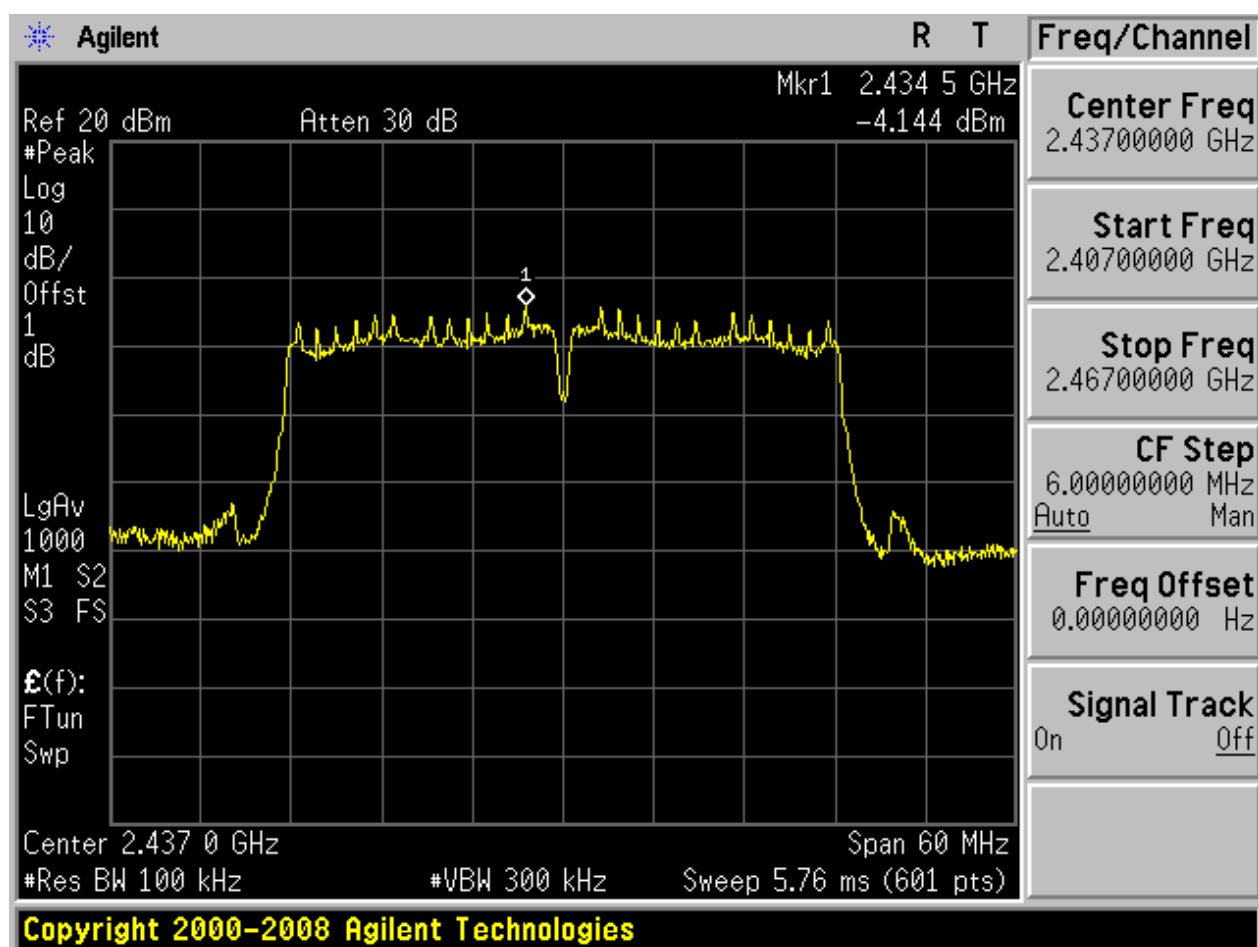






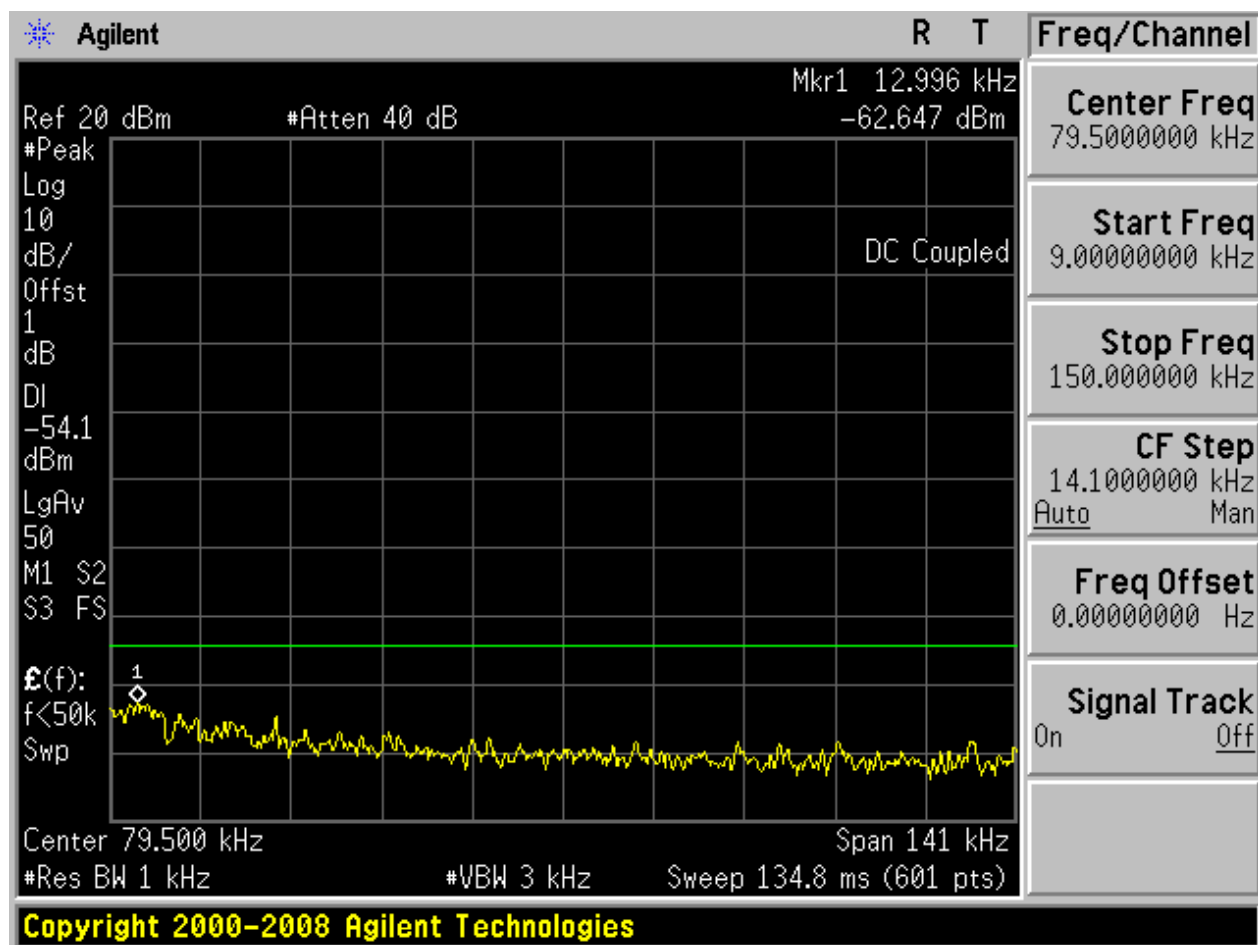
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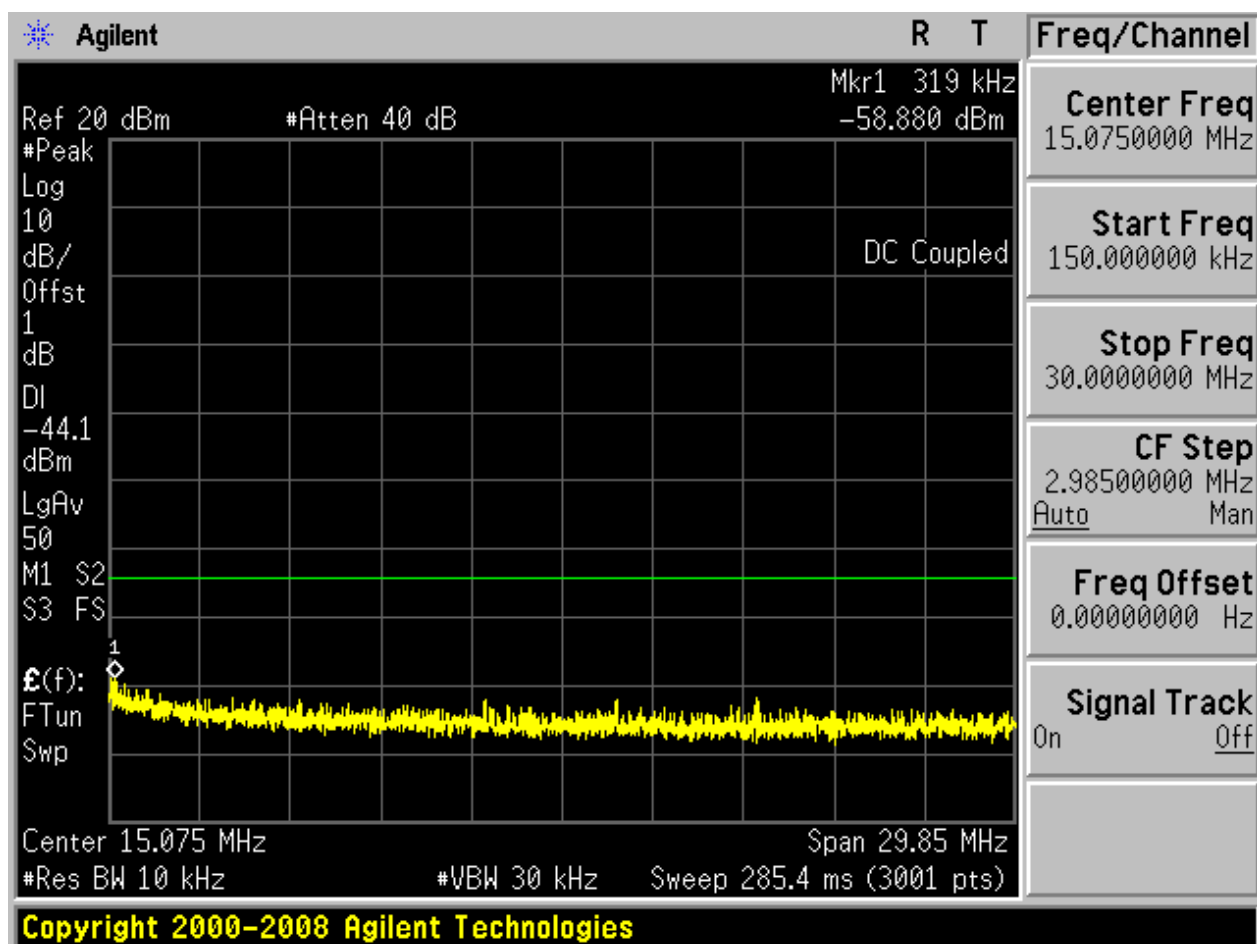
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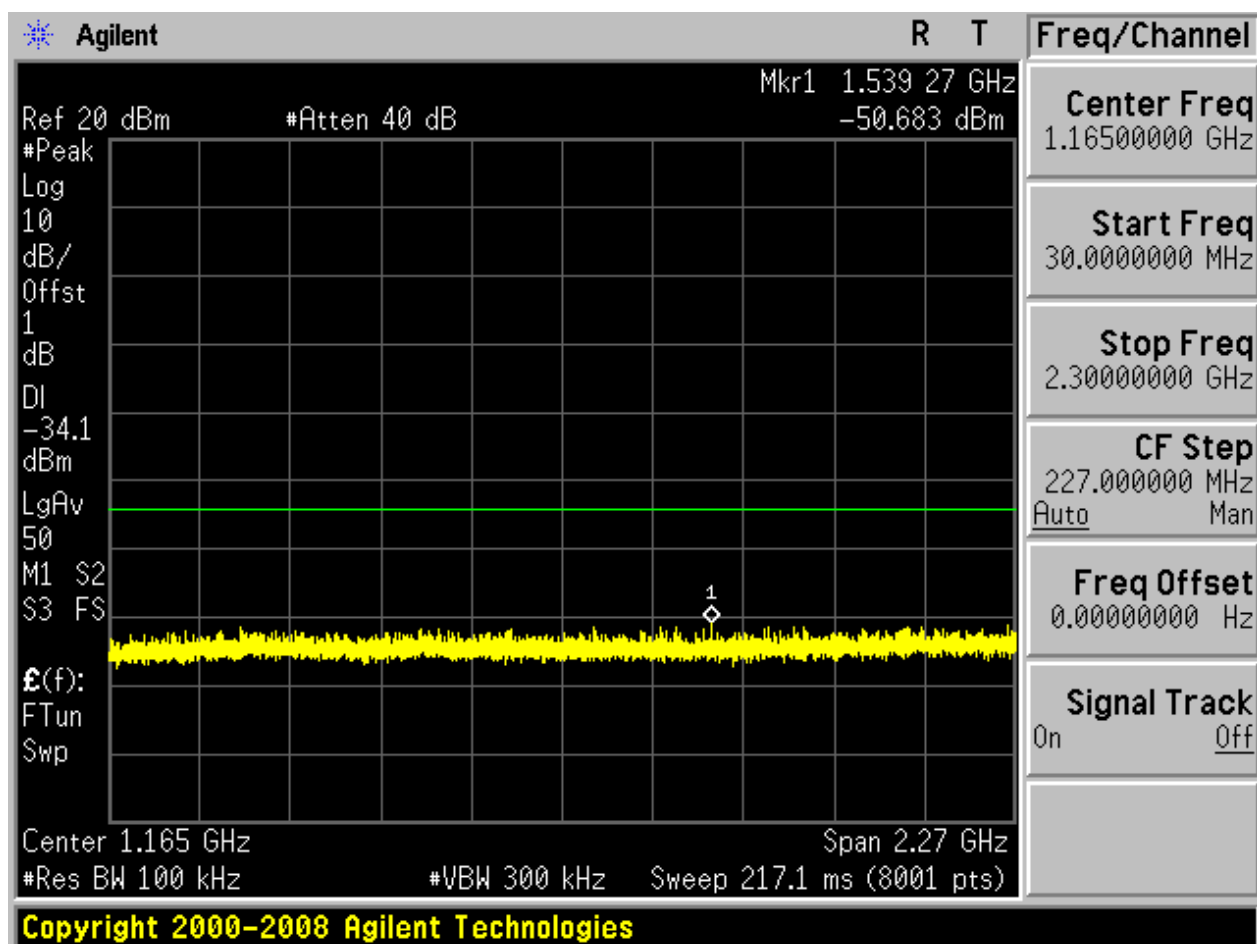


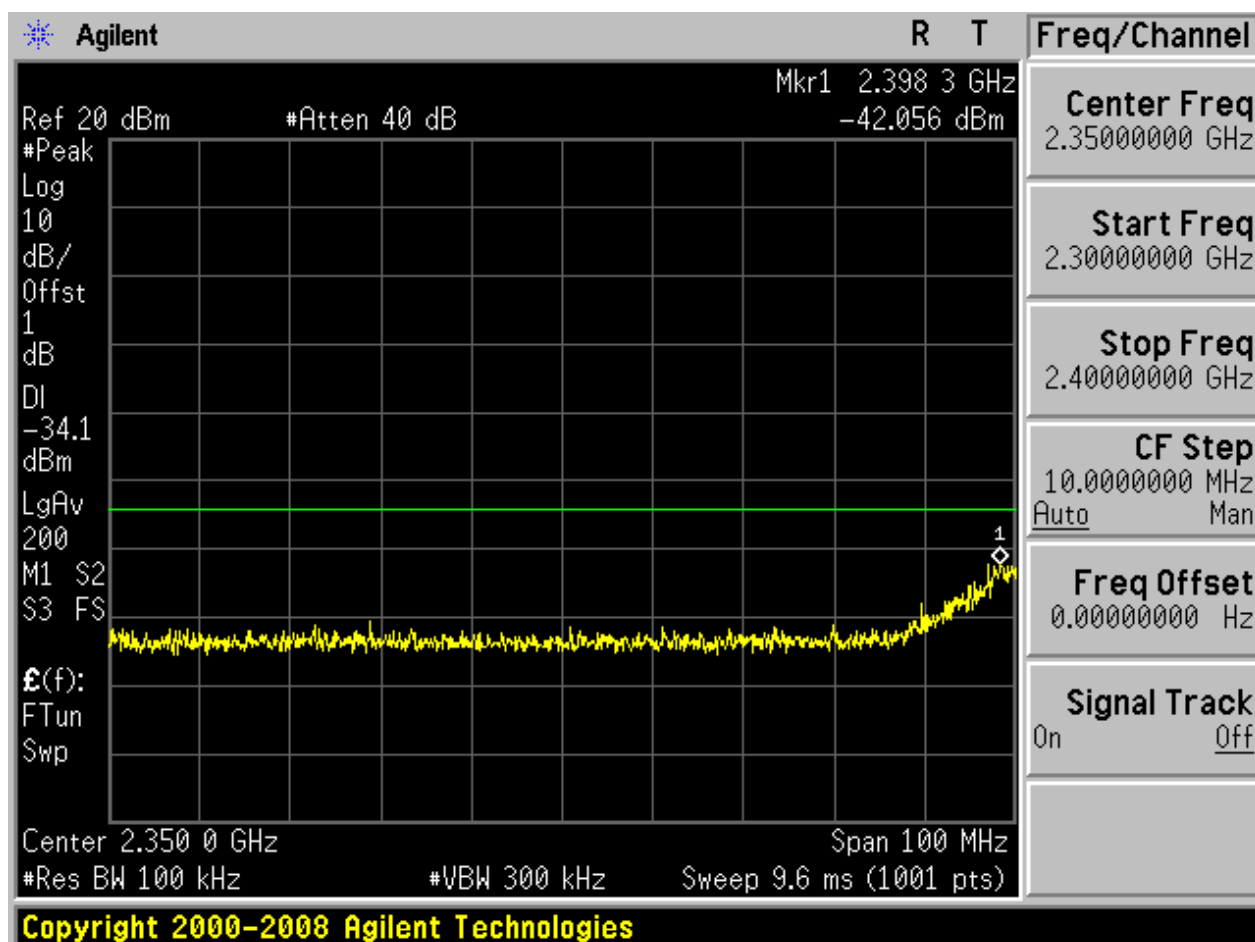


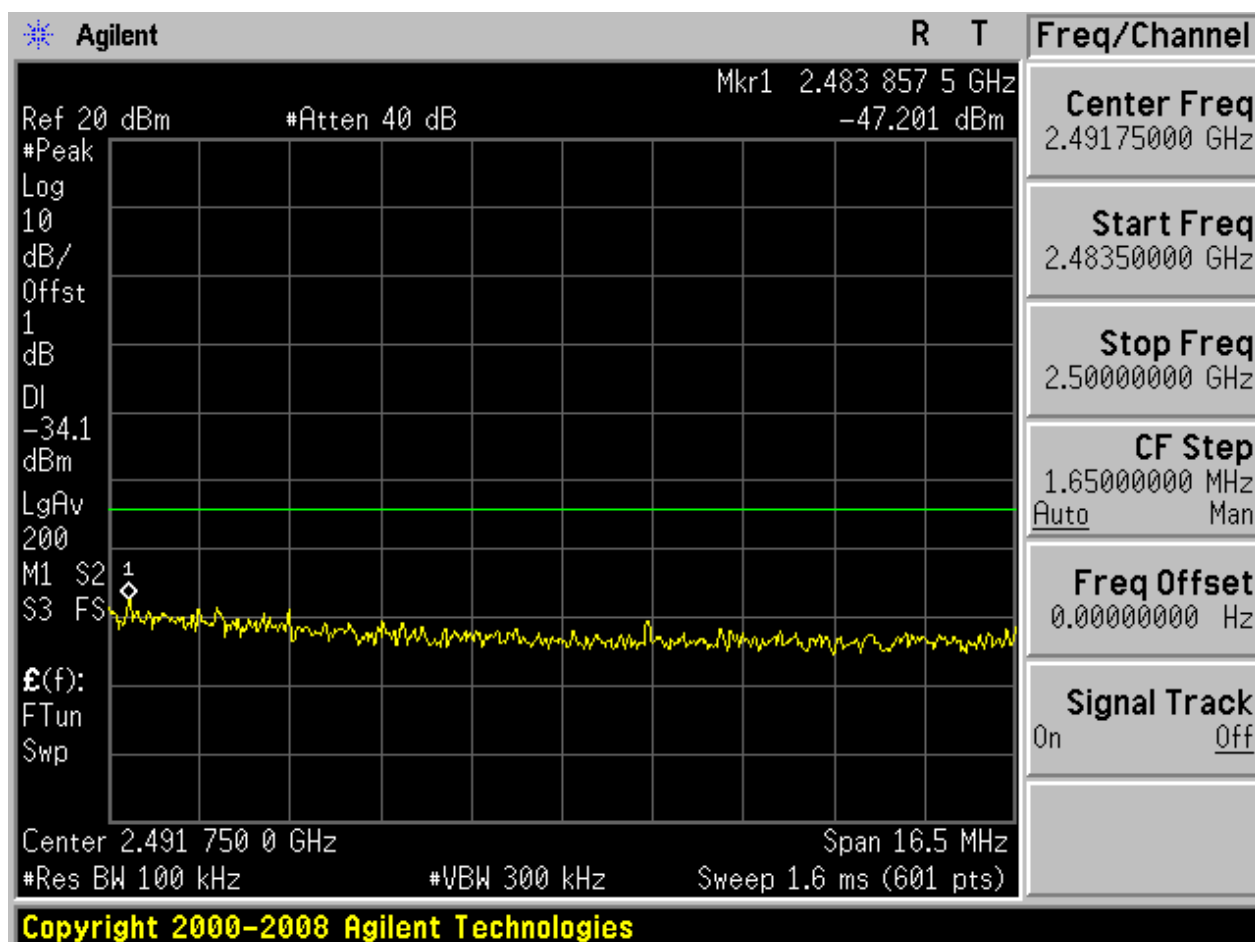
Puw:

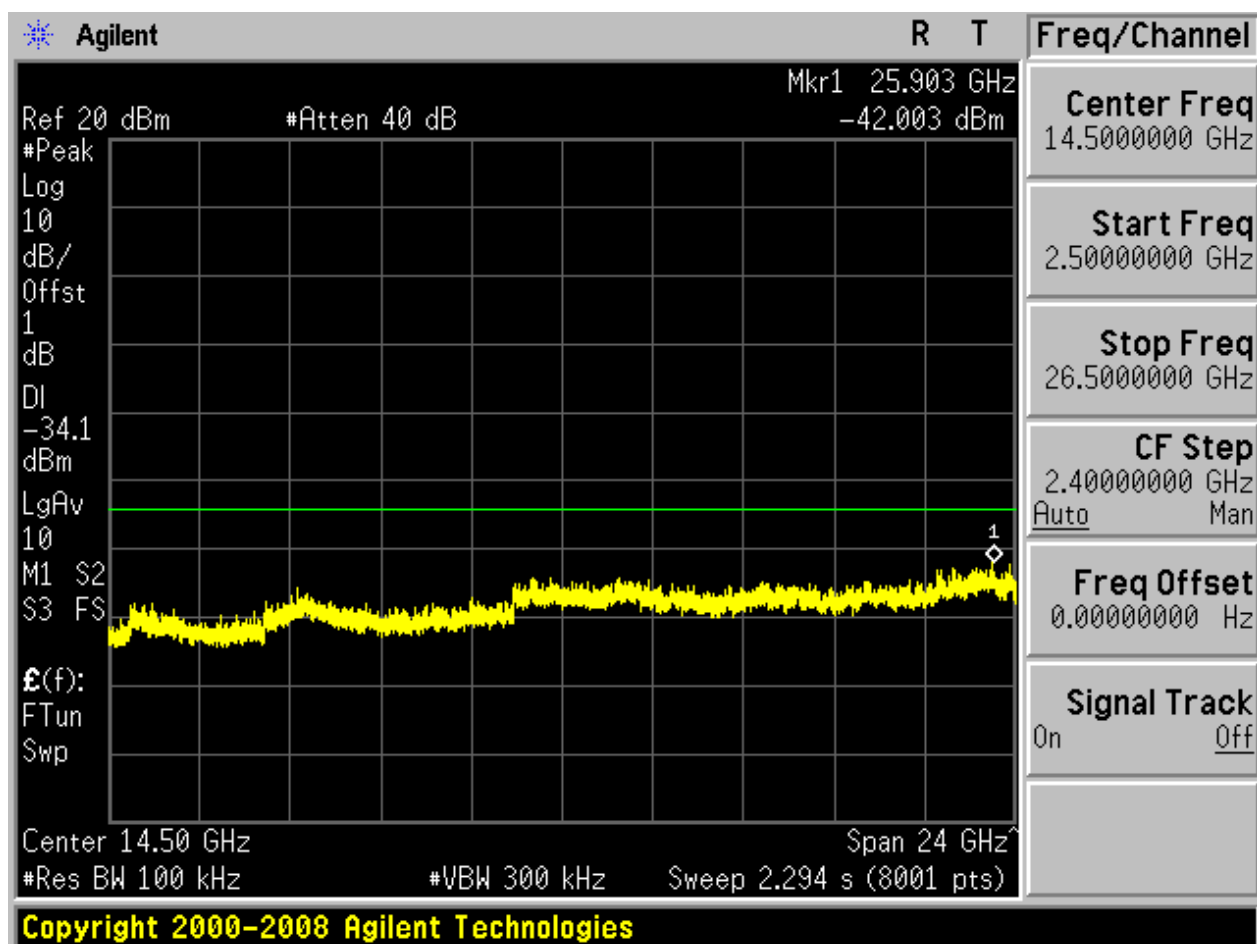






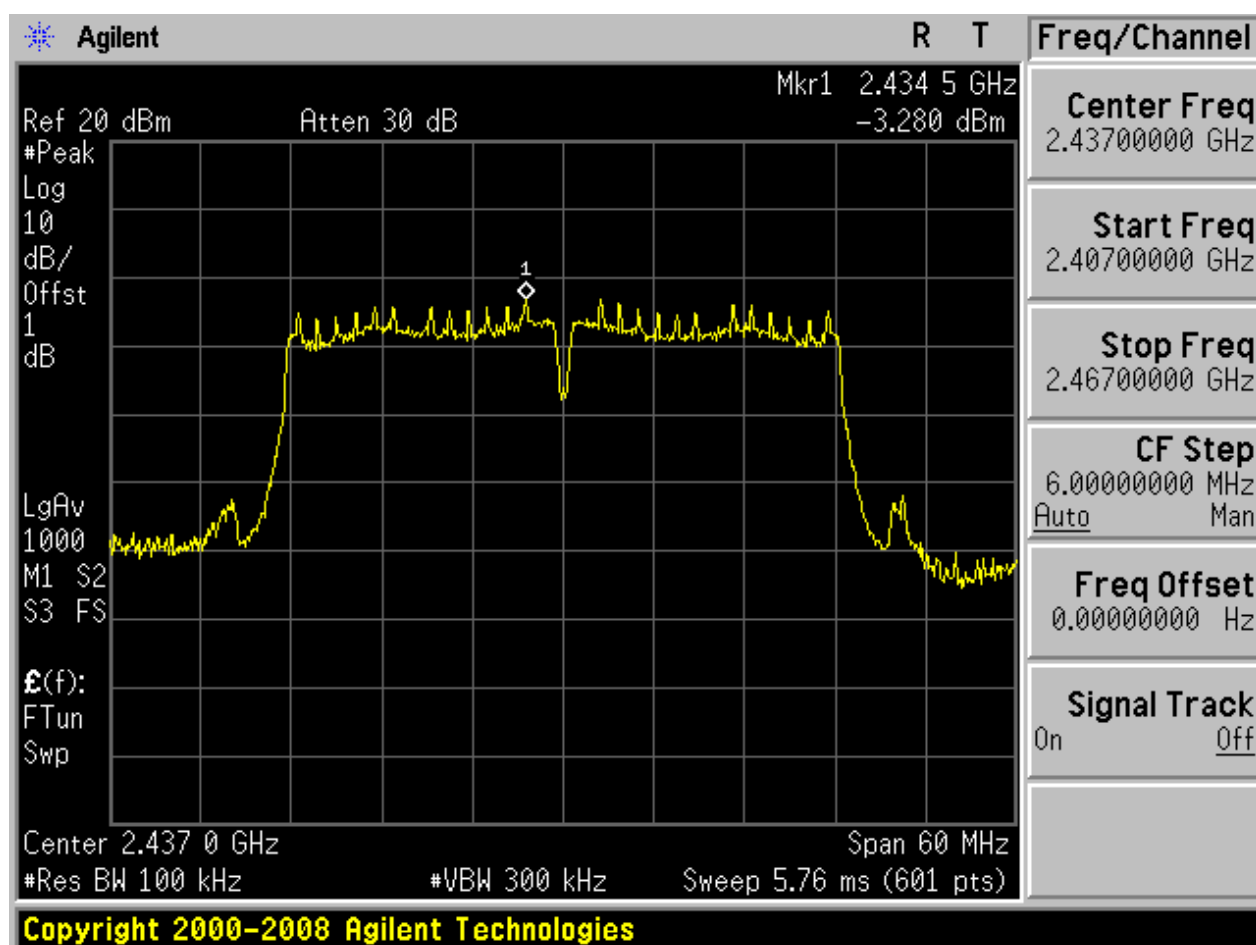




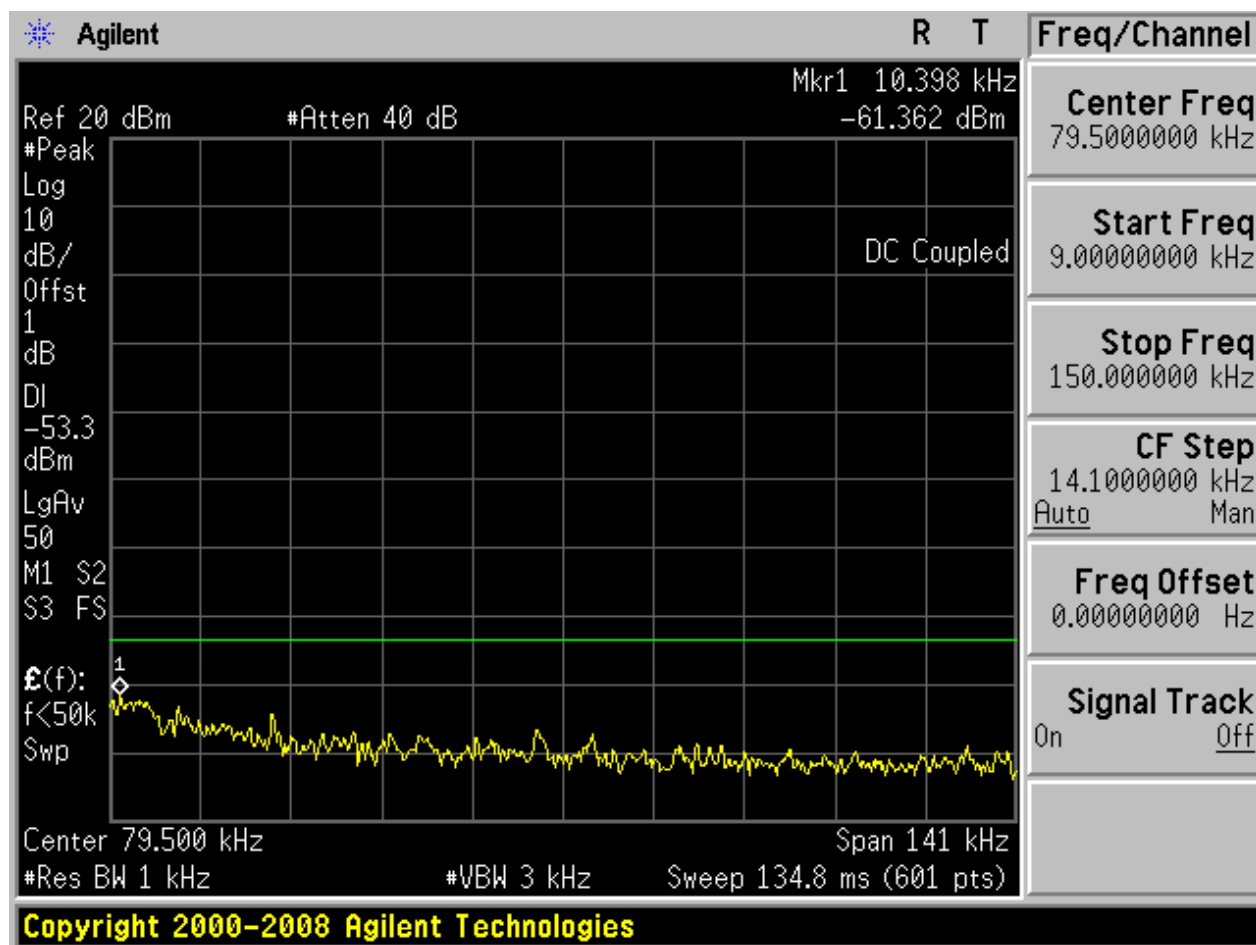


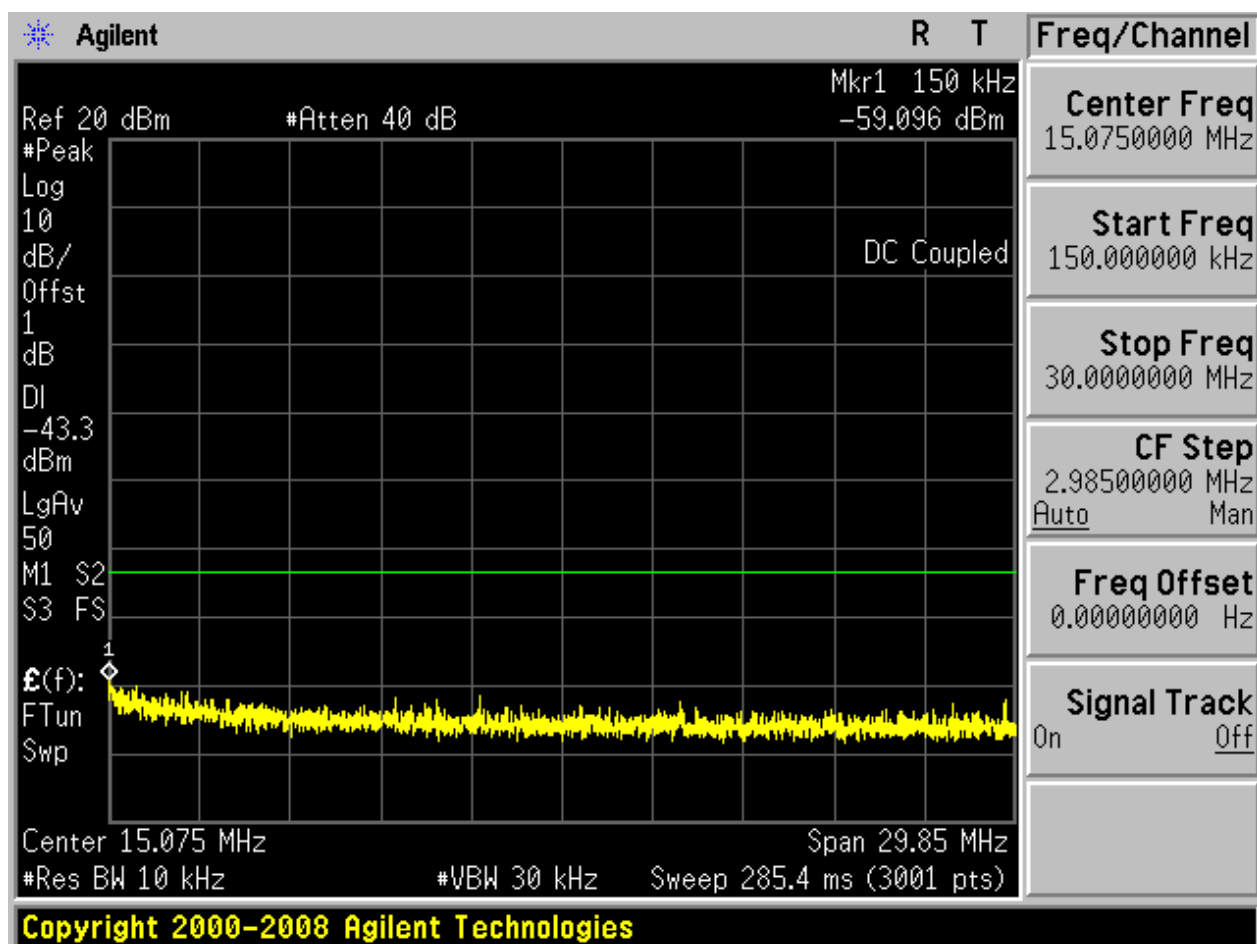
## 2.22 11N40\_M@Ant 2

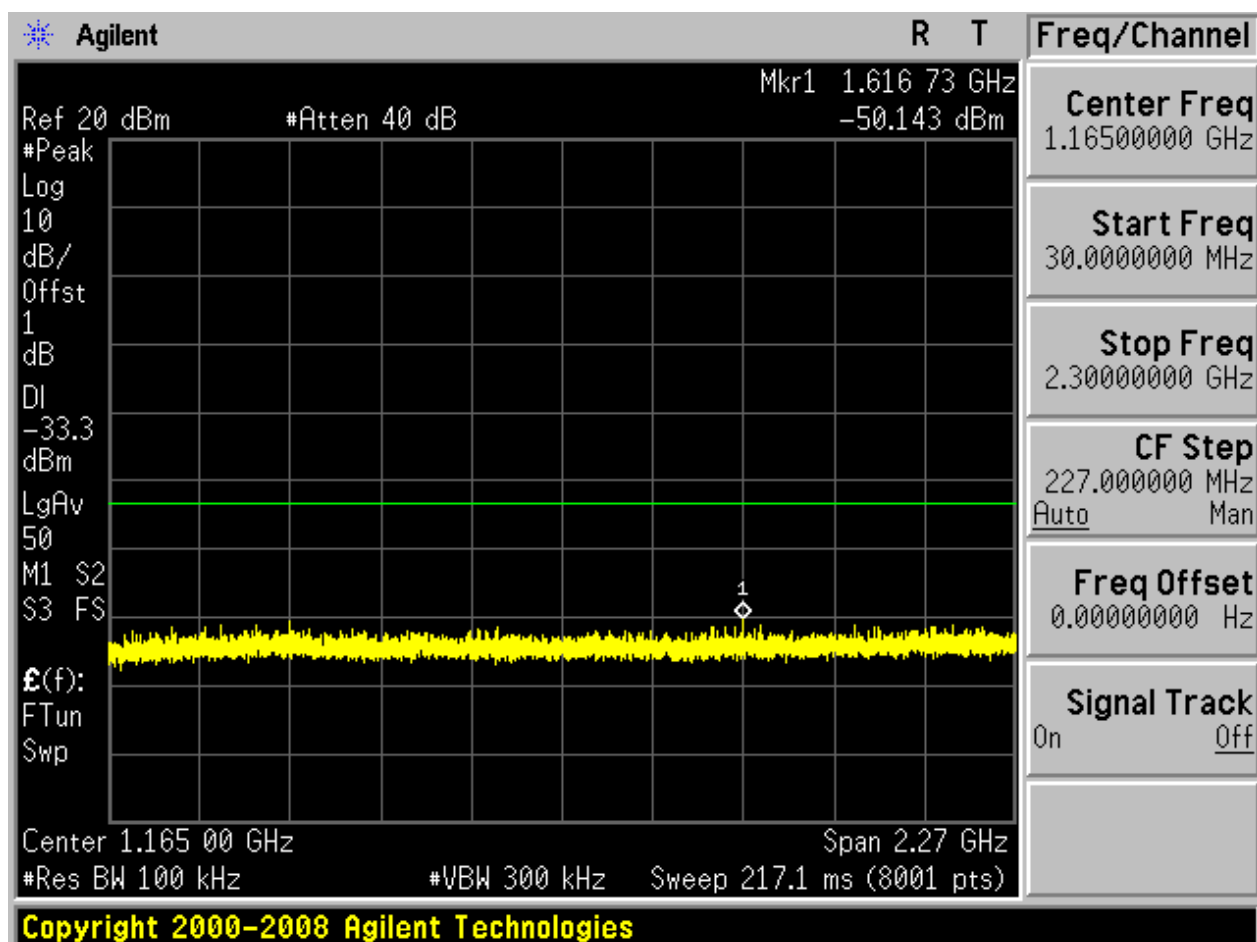
Pref:

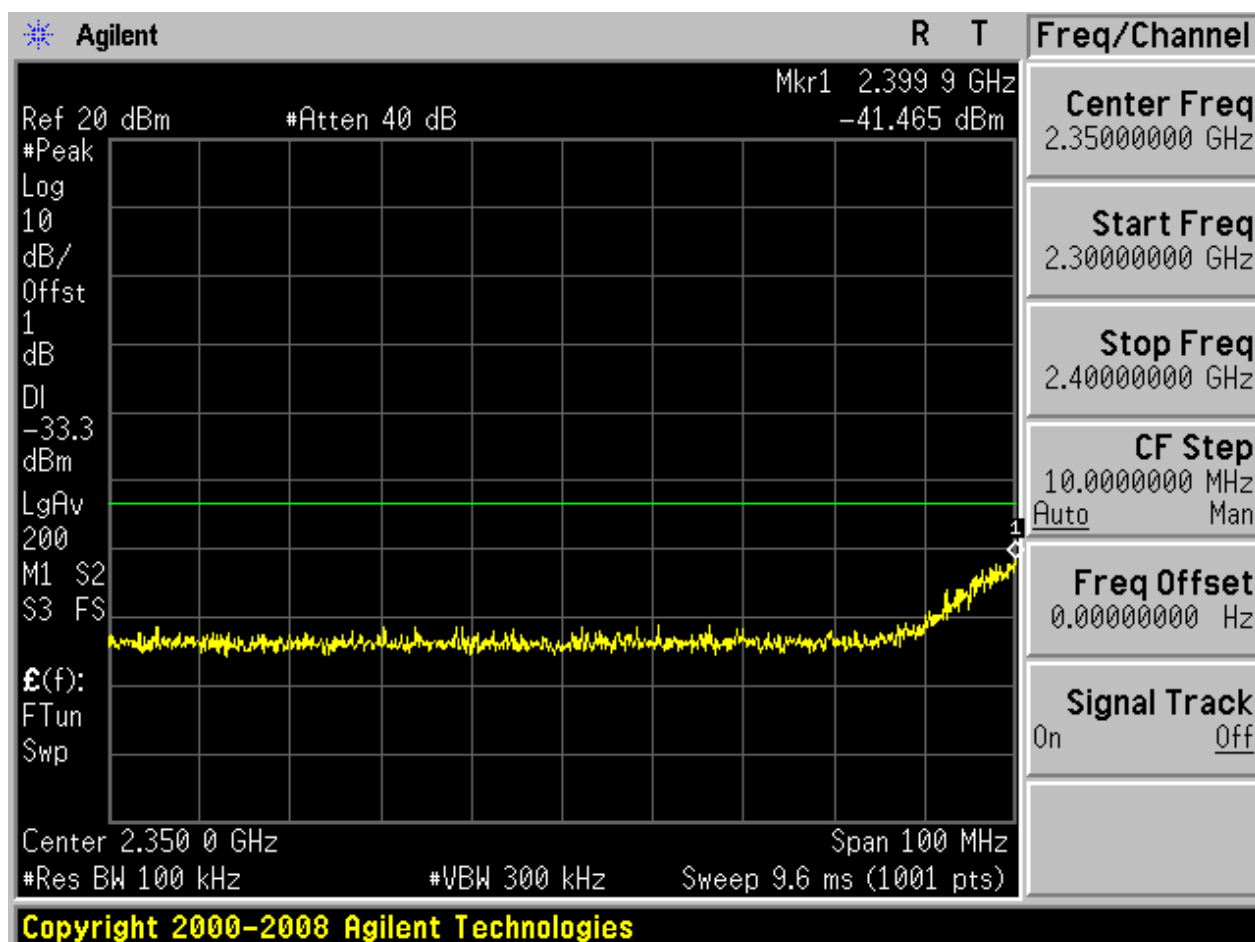


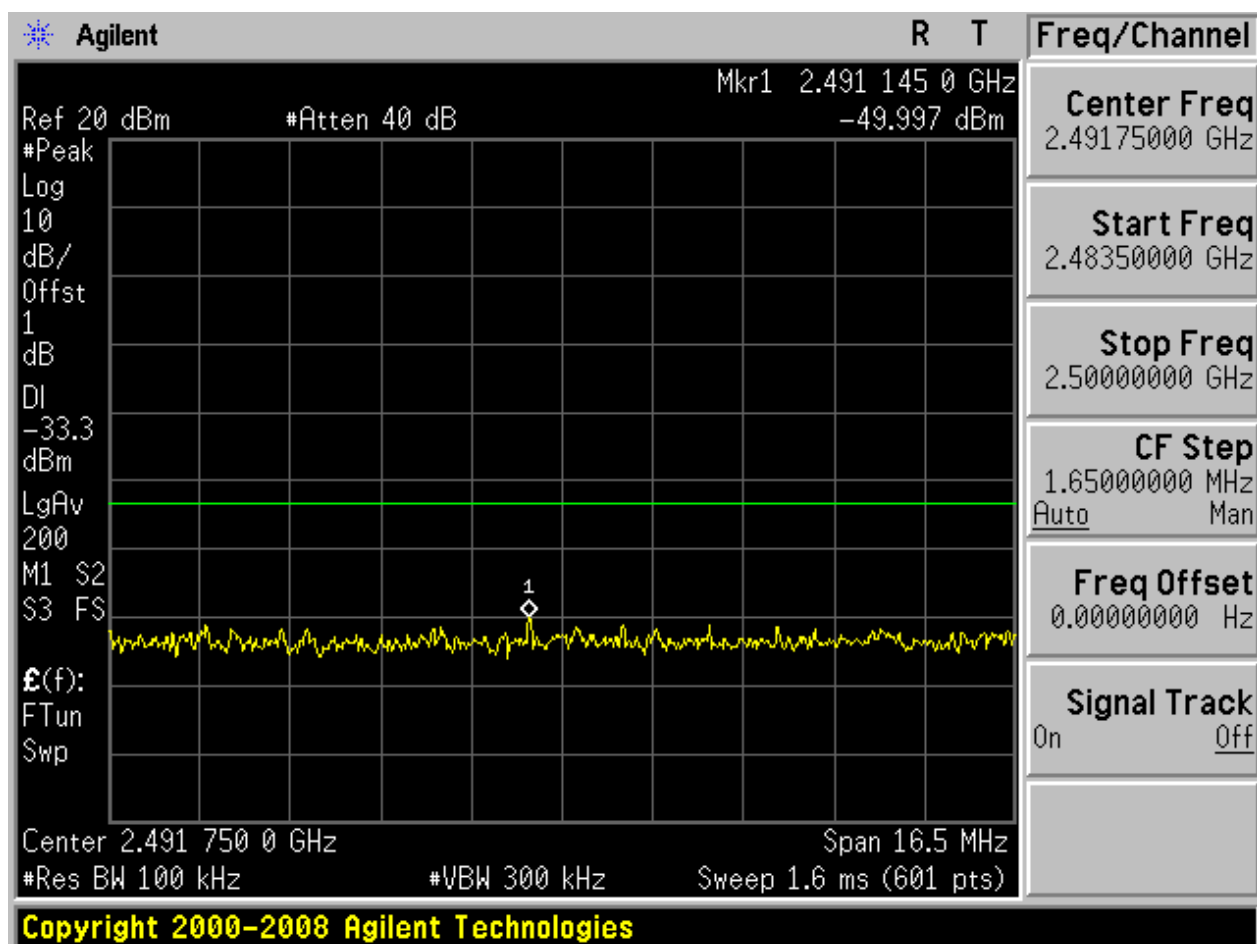
Puw:

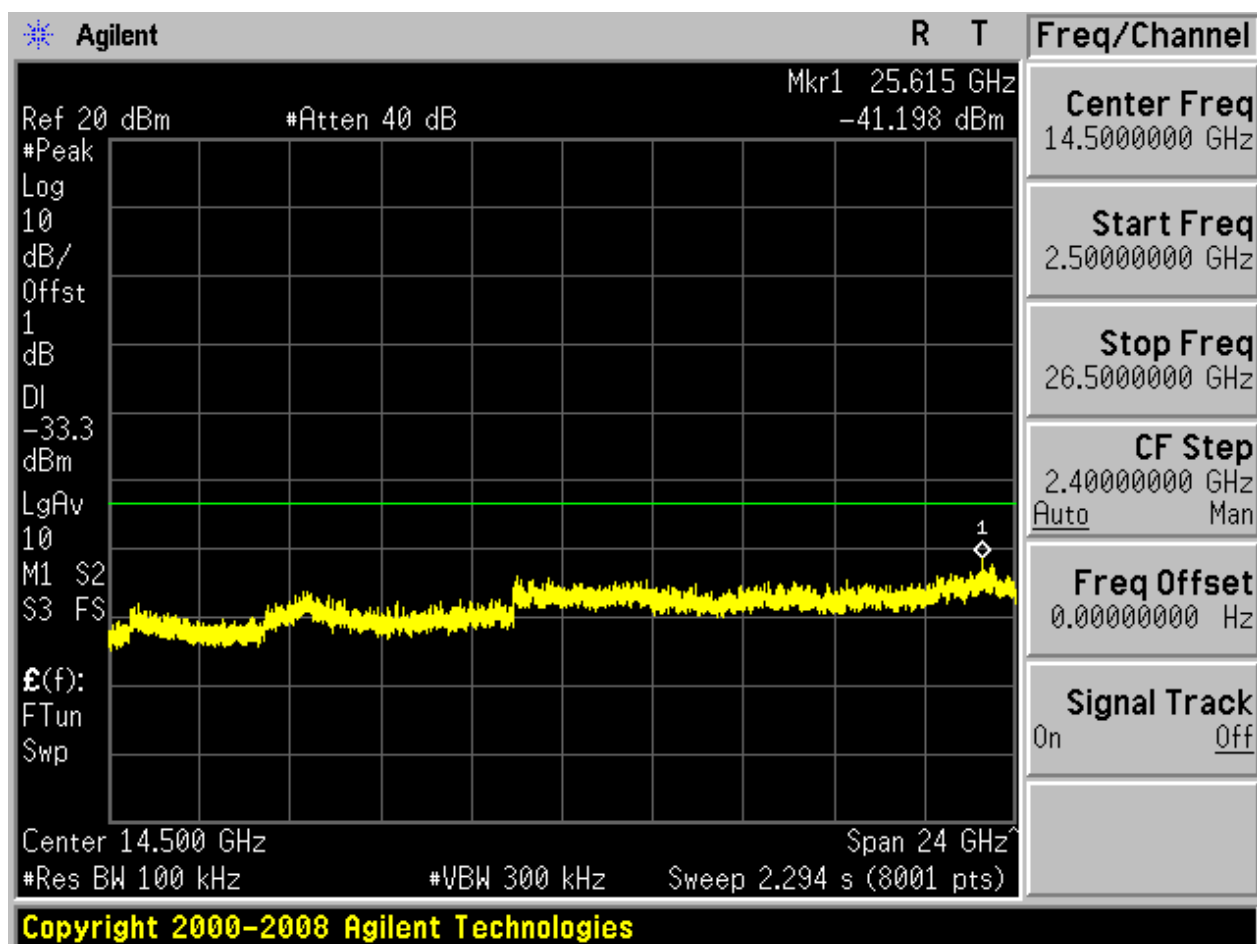








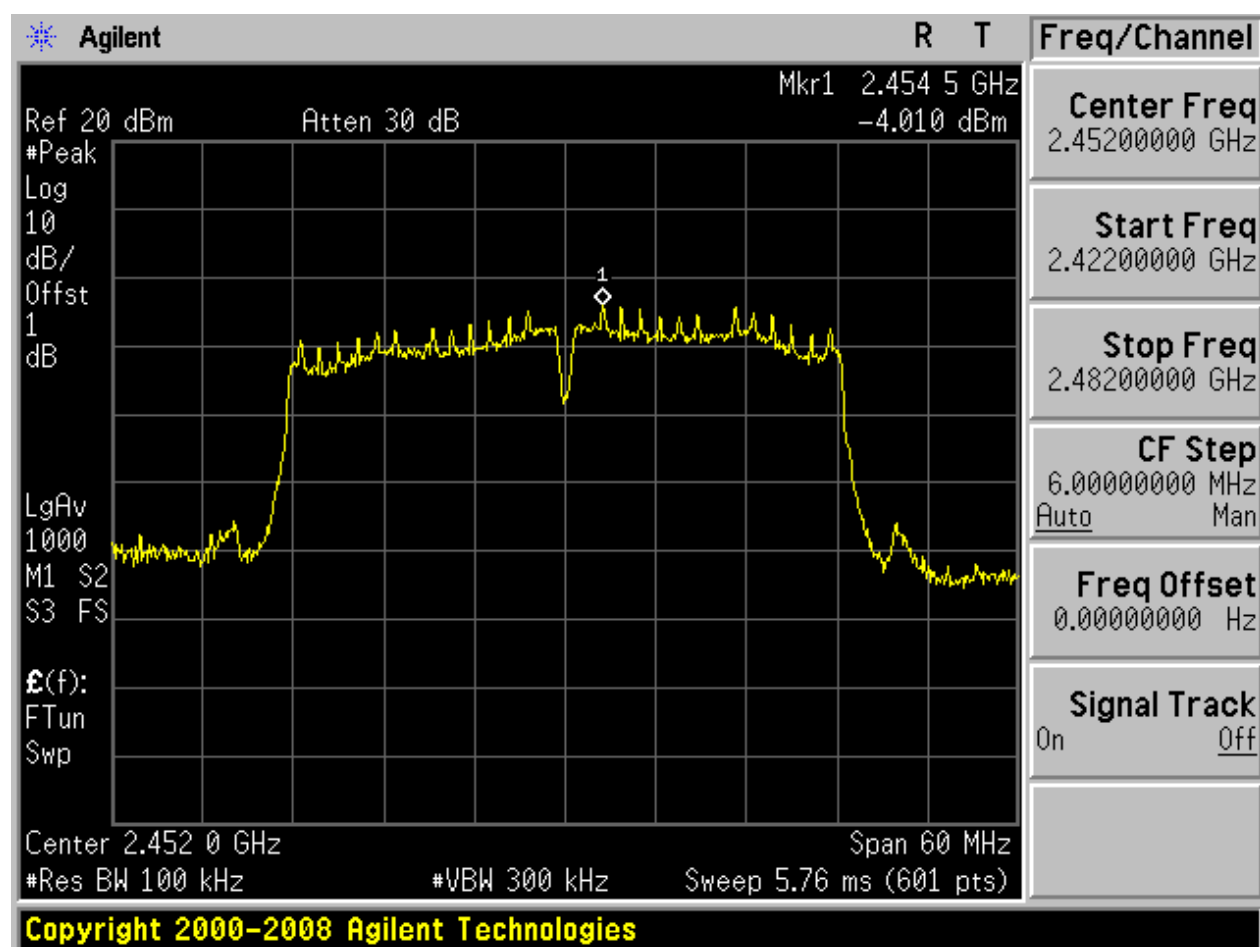






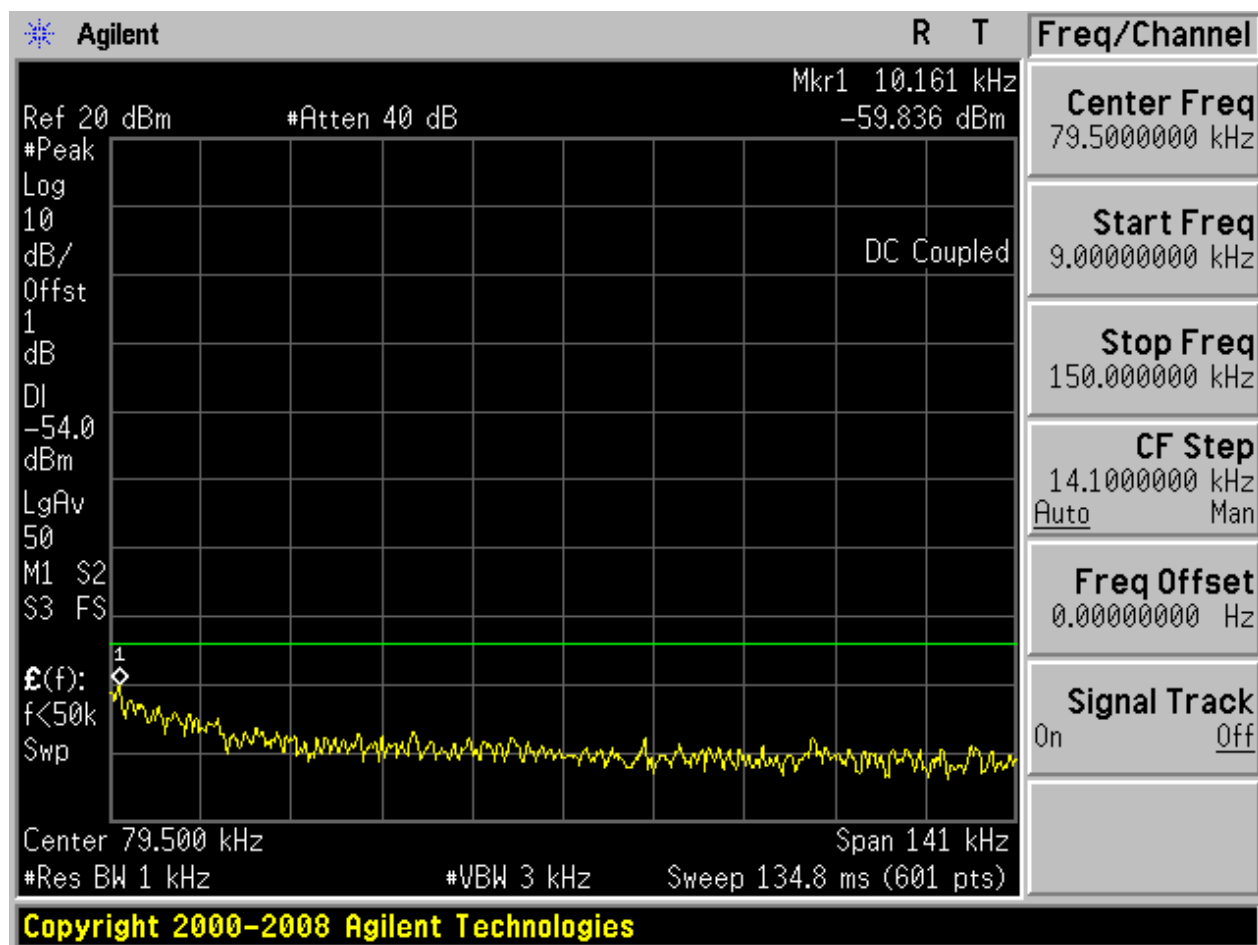
## 2.23 11N40\_H@Ant 1

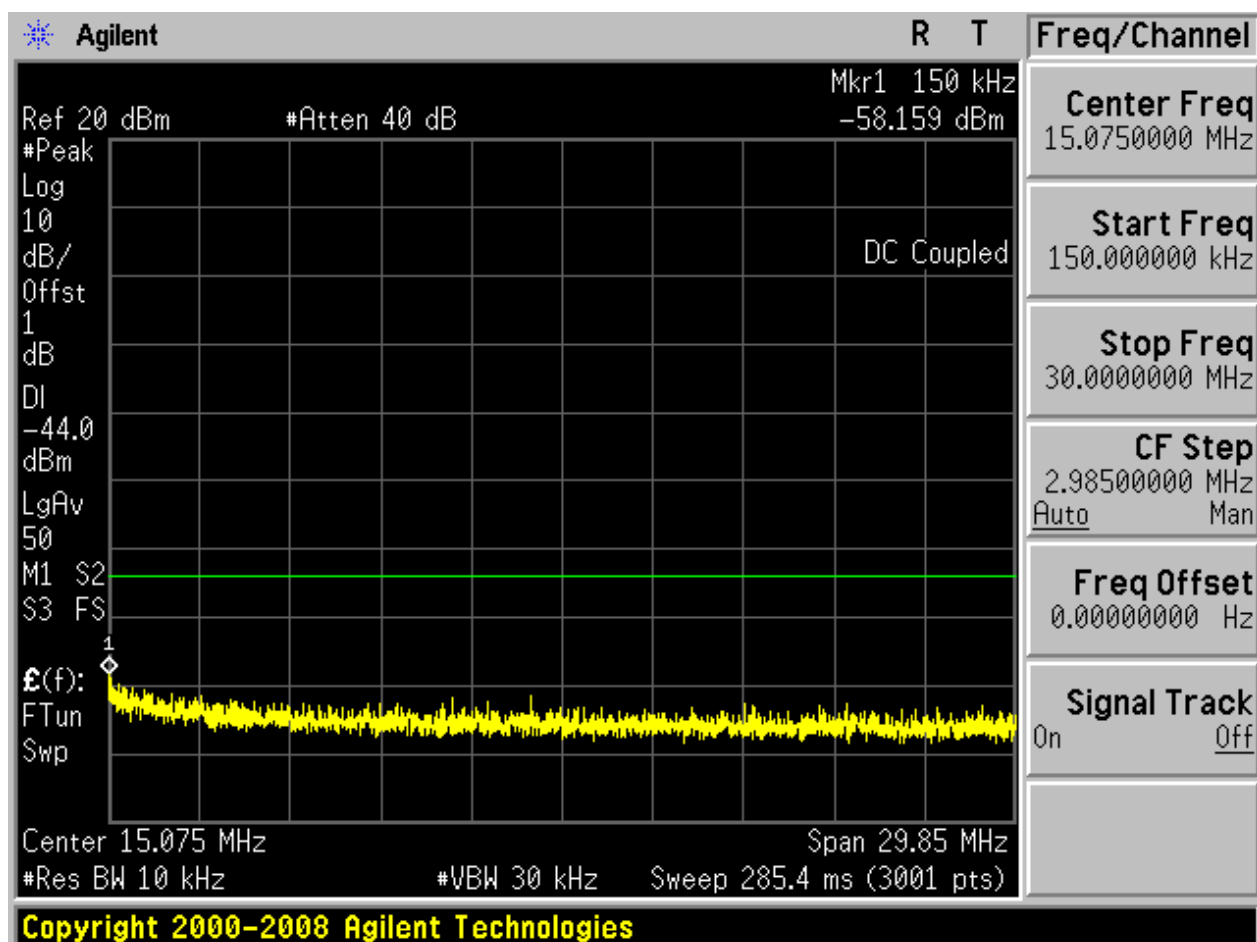
Pref:

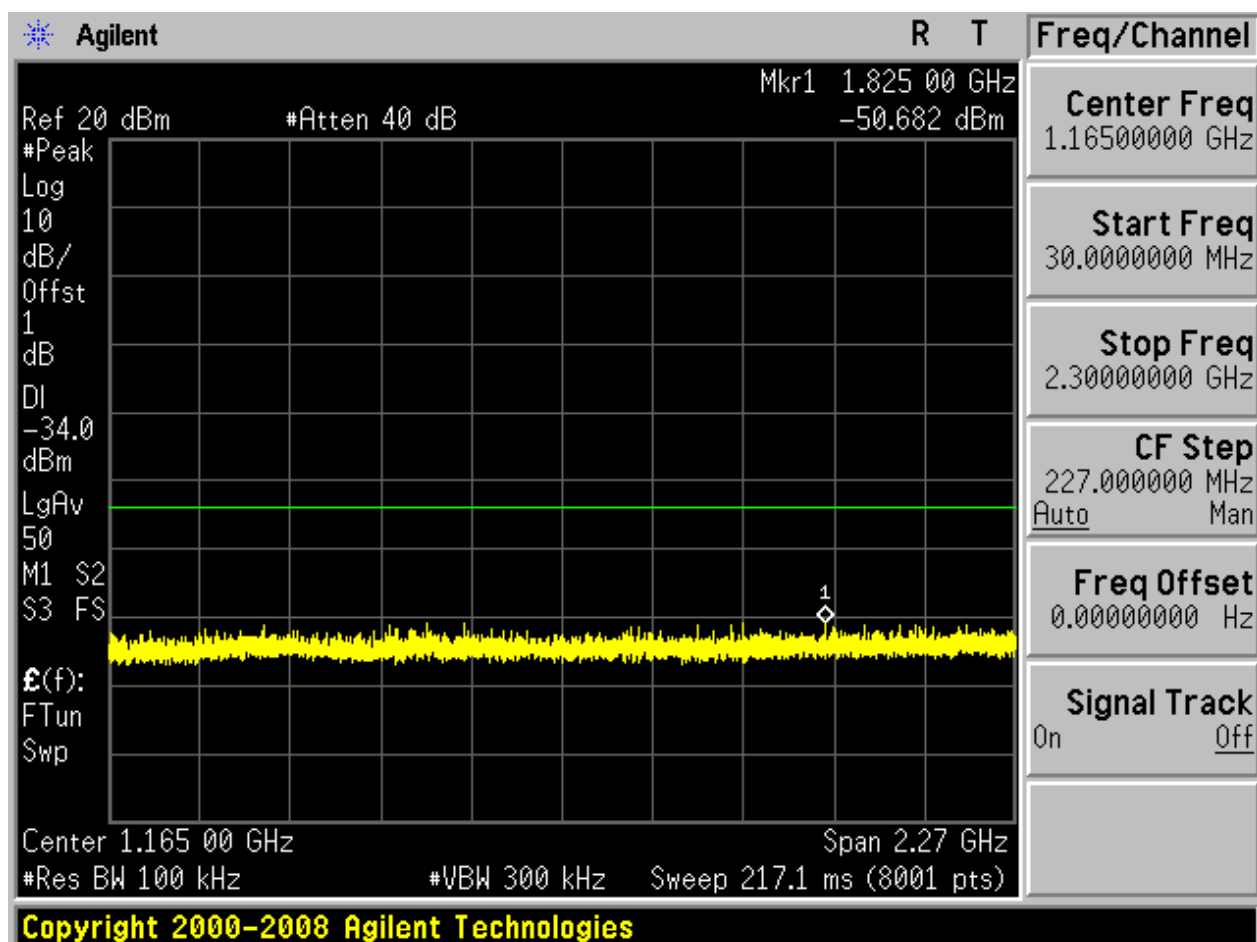


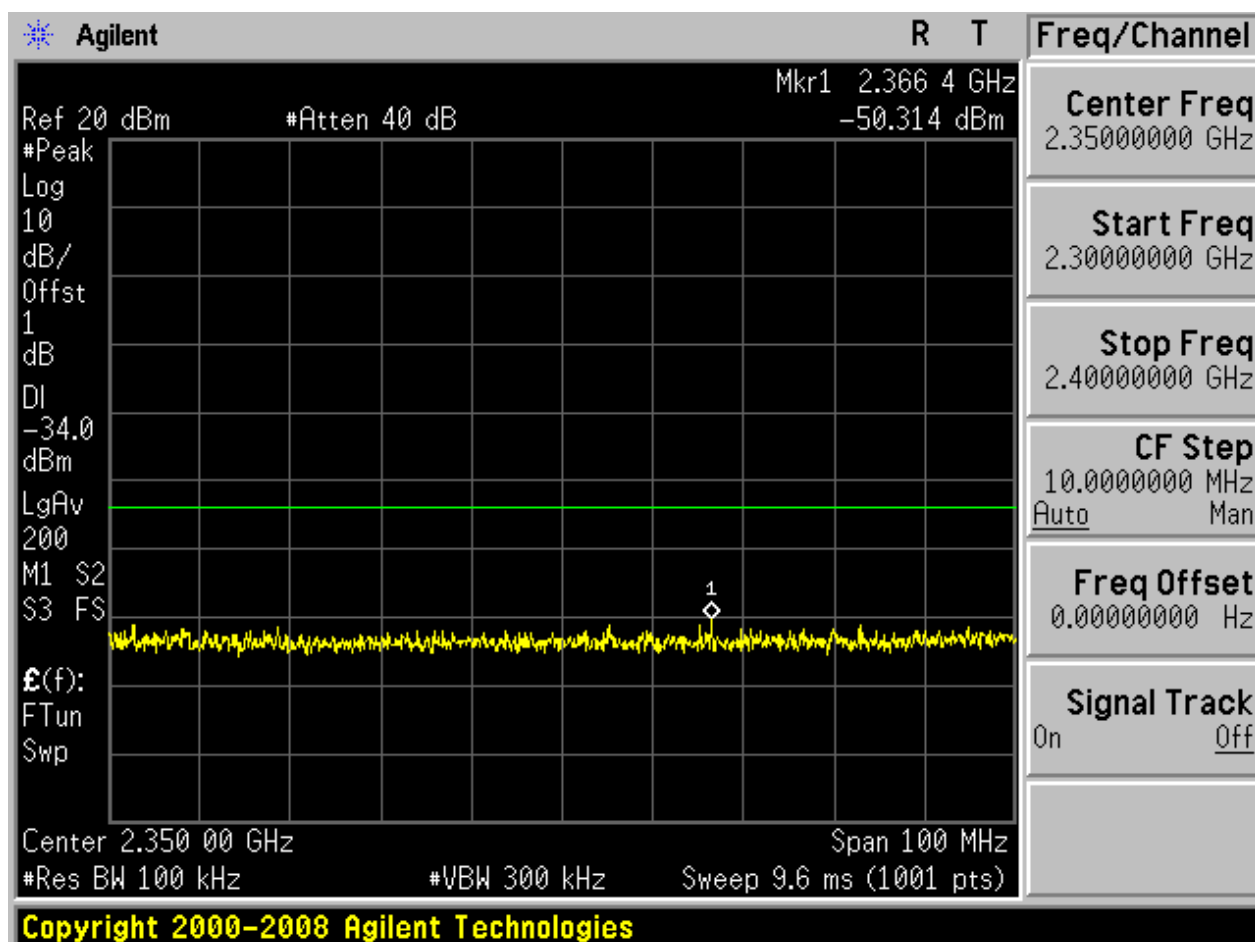


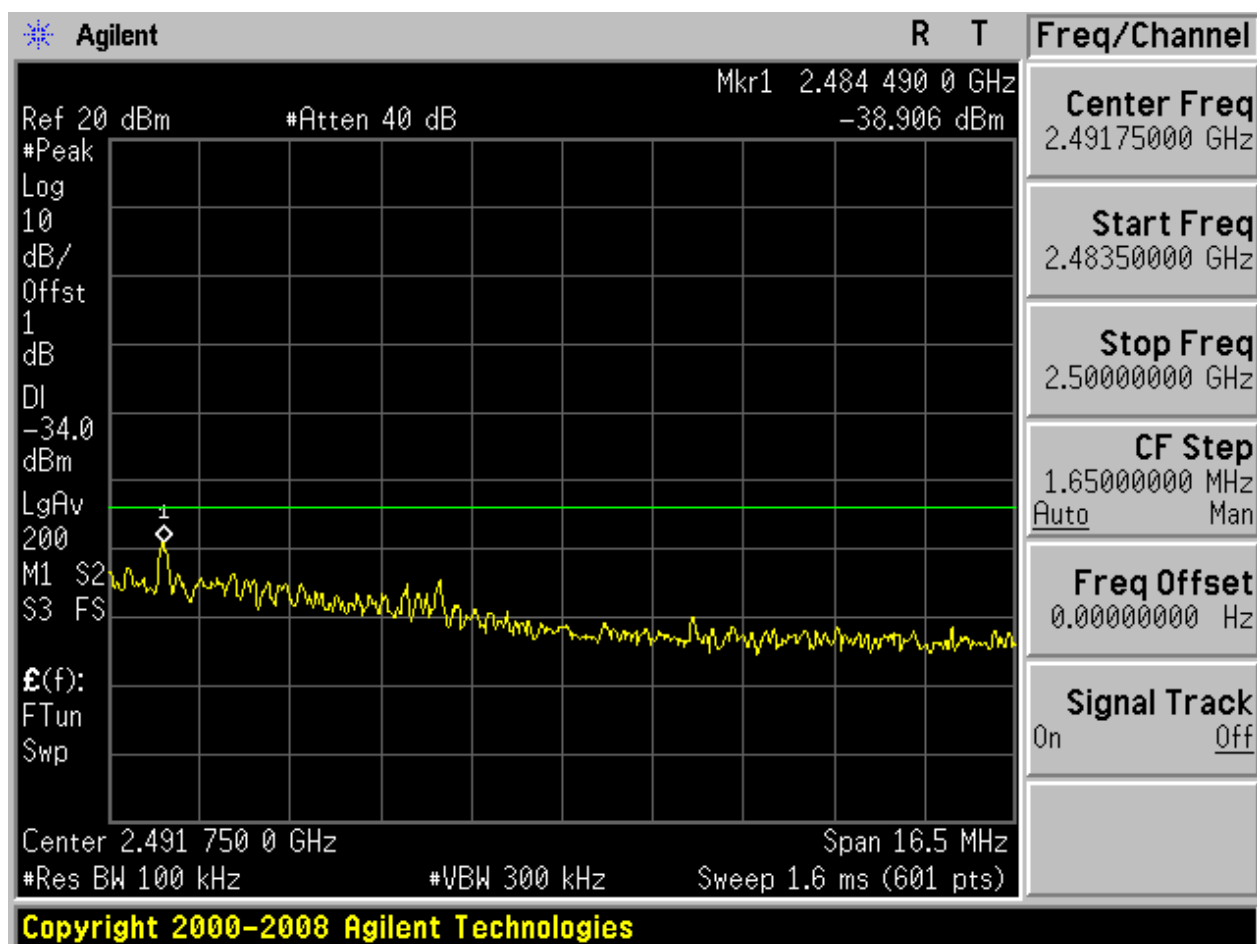
Puw:

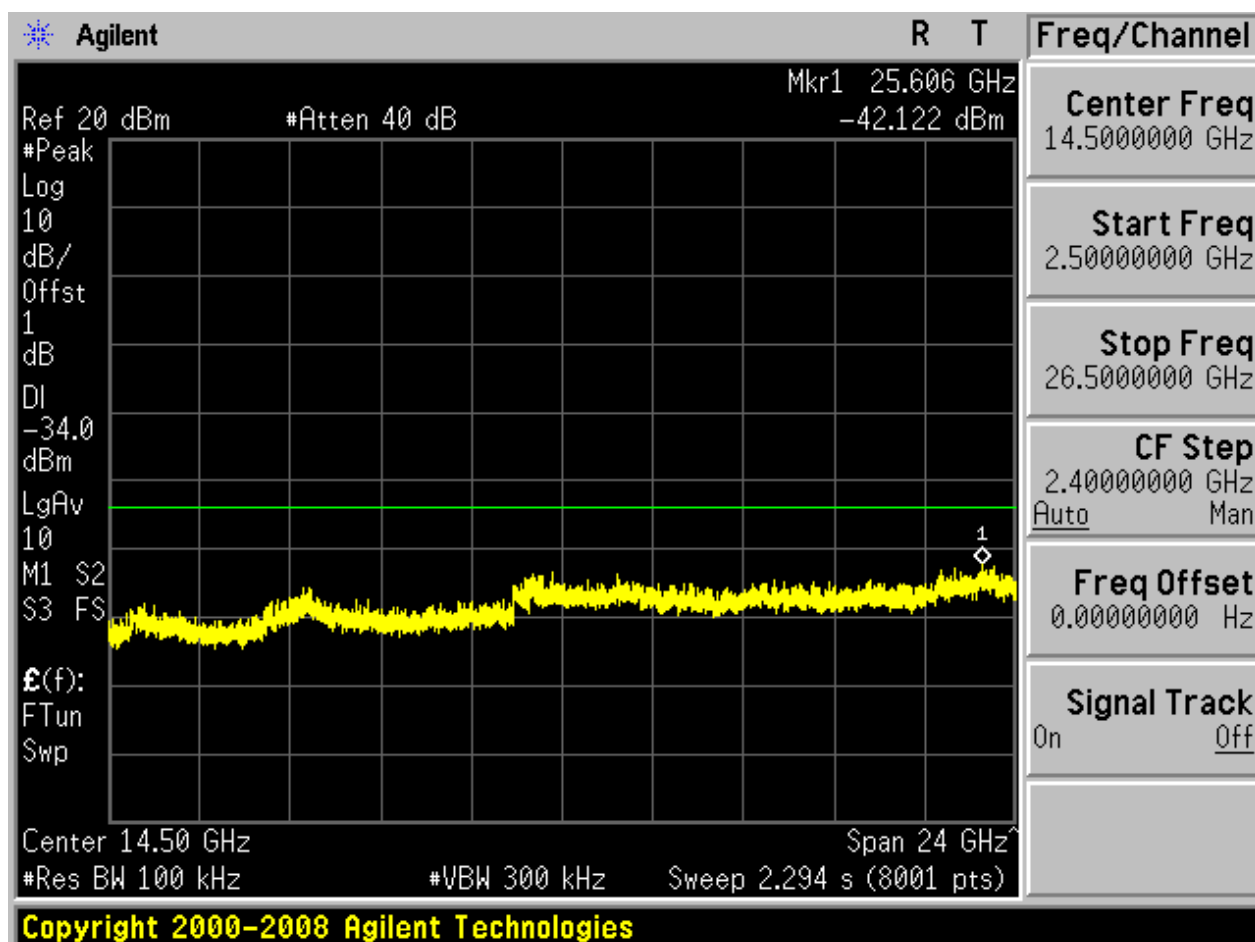






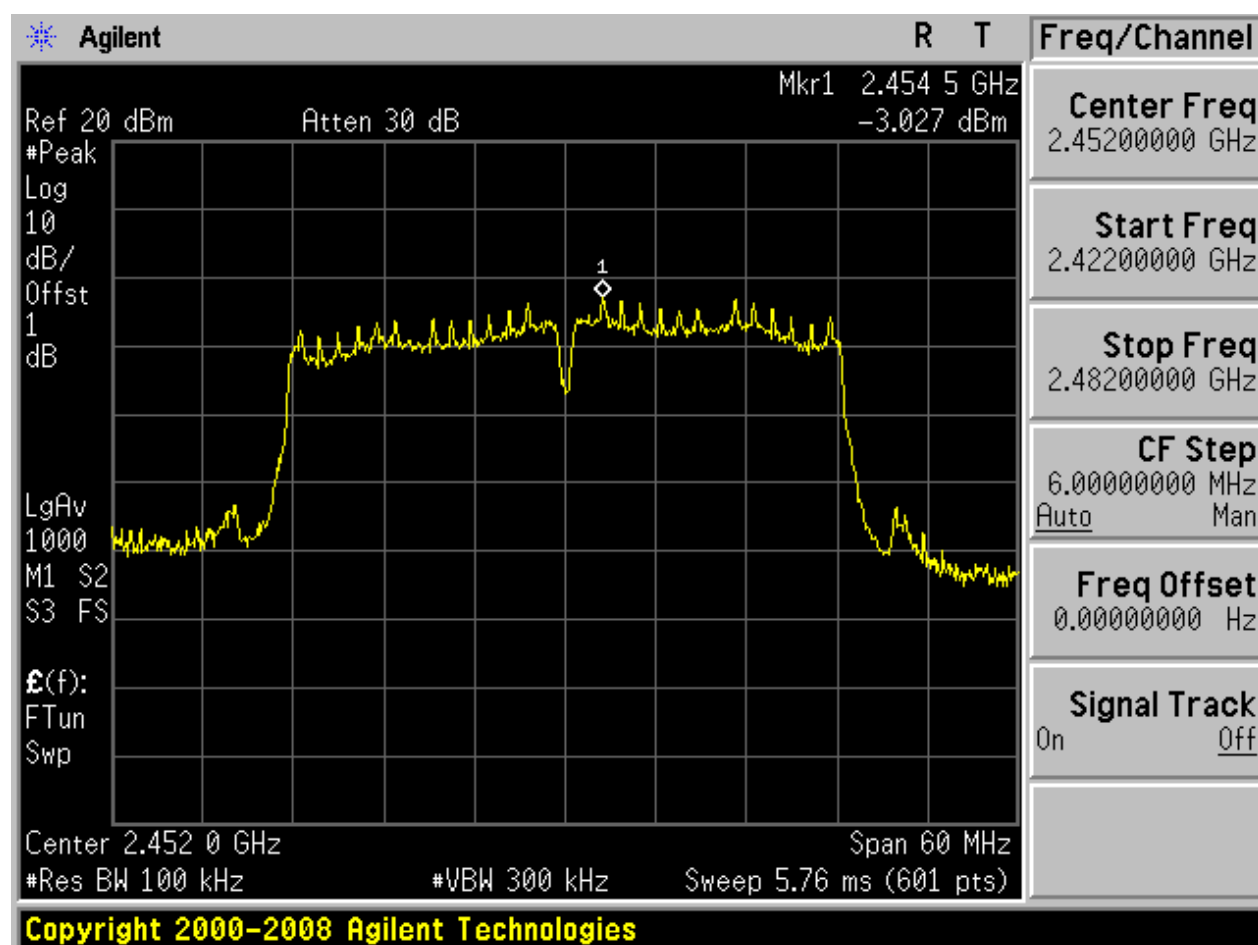






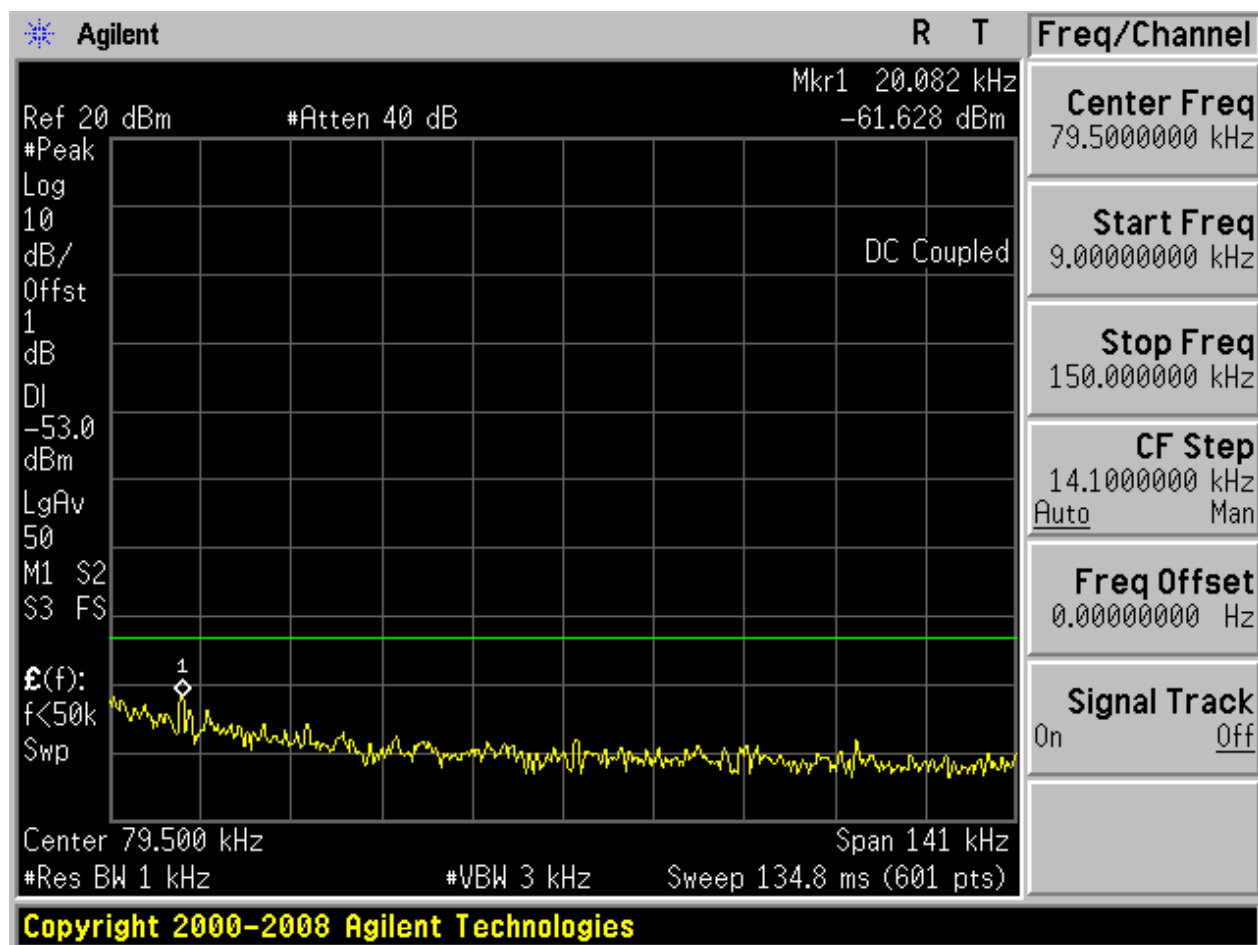
## 2.24 11N40\_H@Ant 2

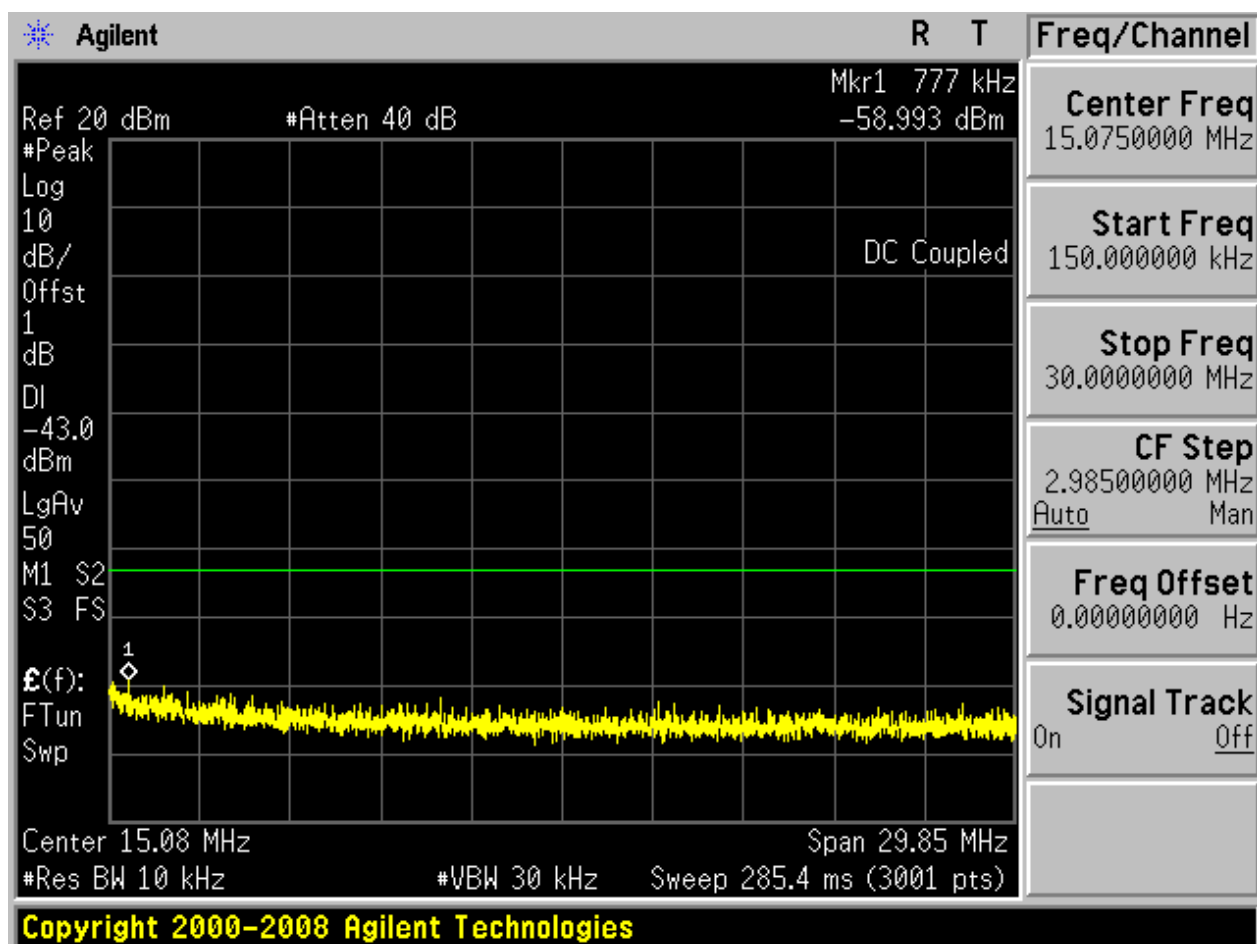
Pref:

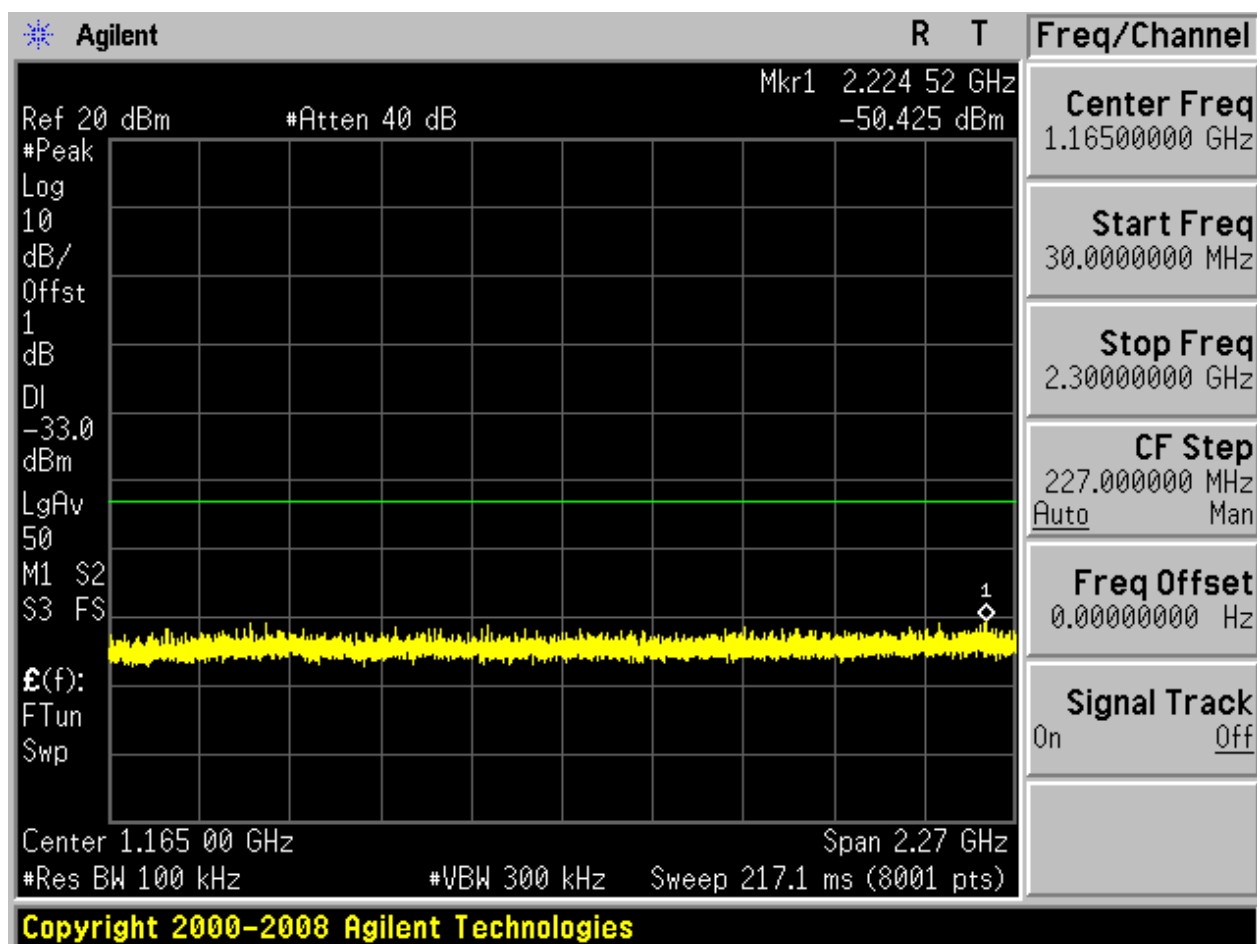


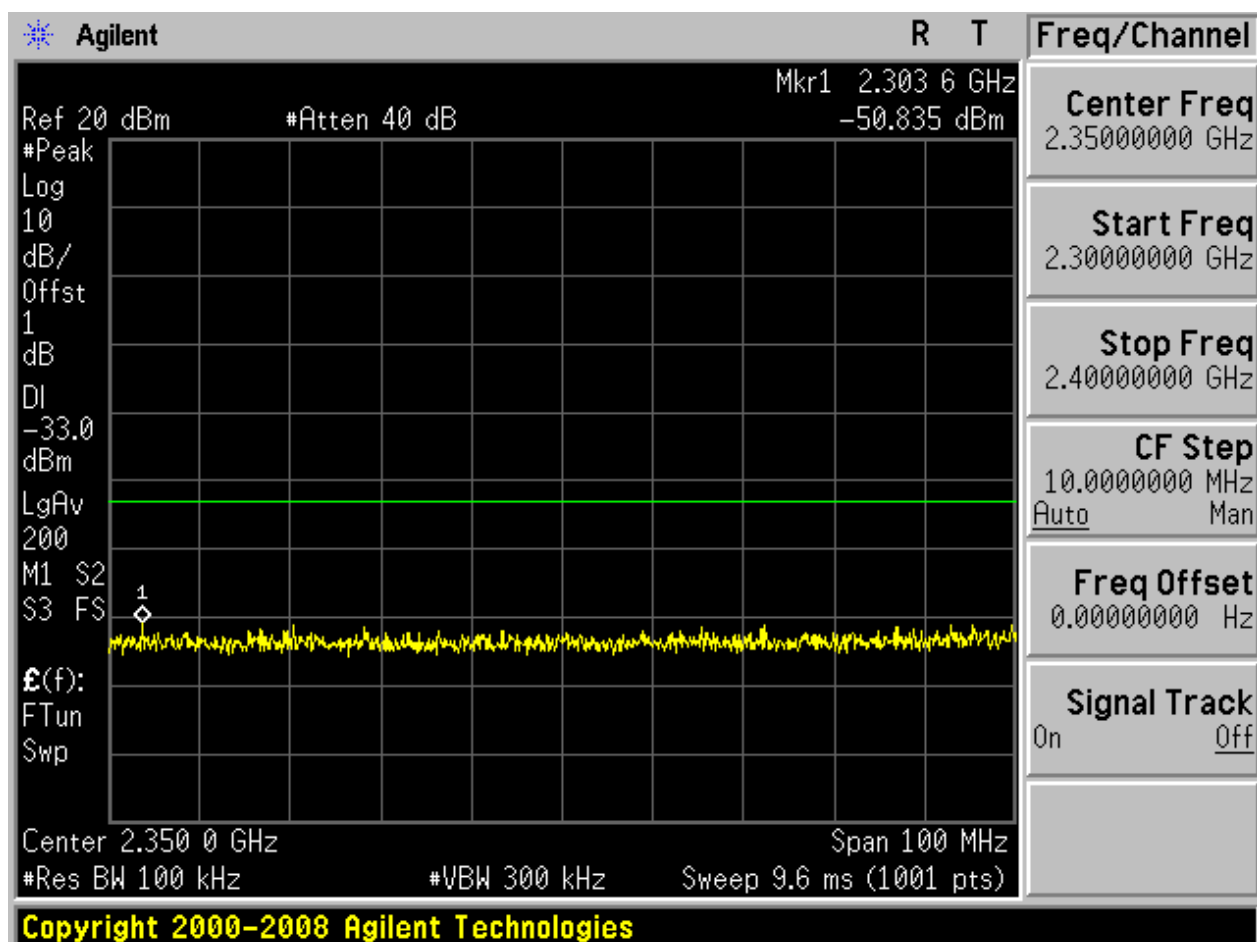


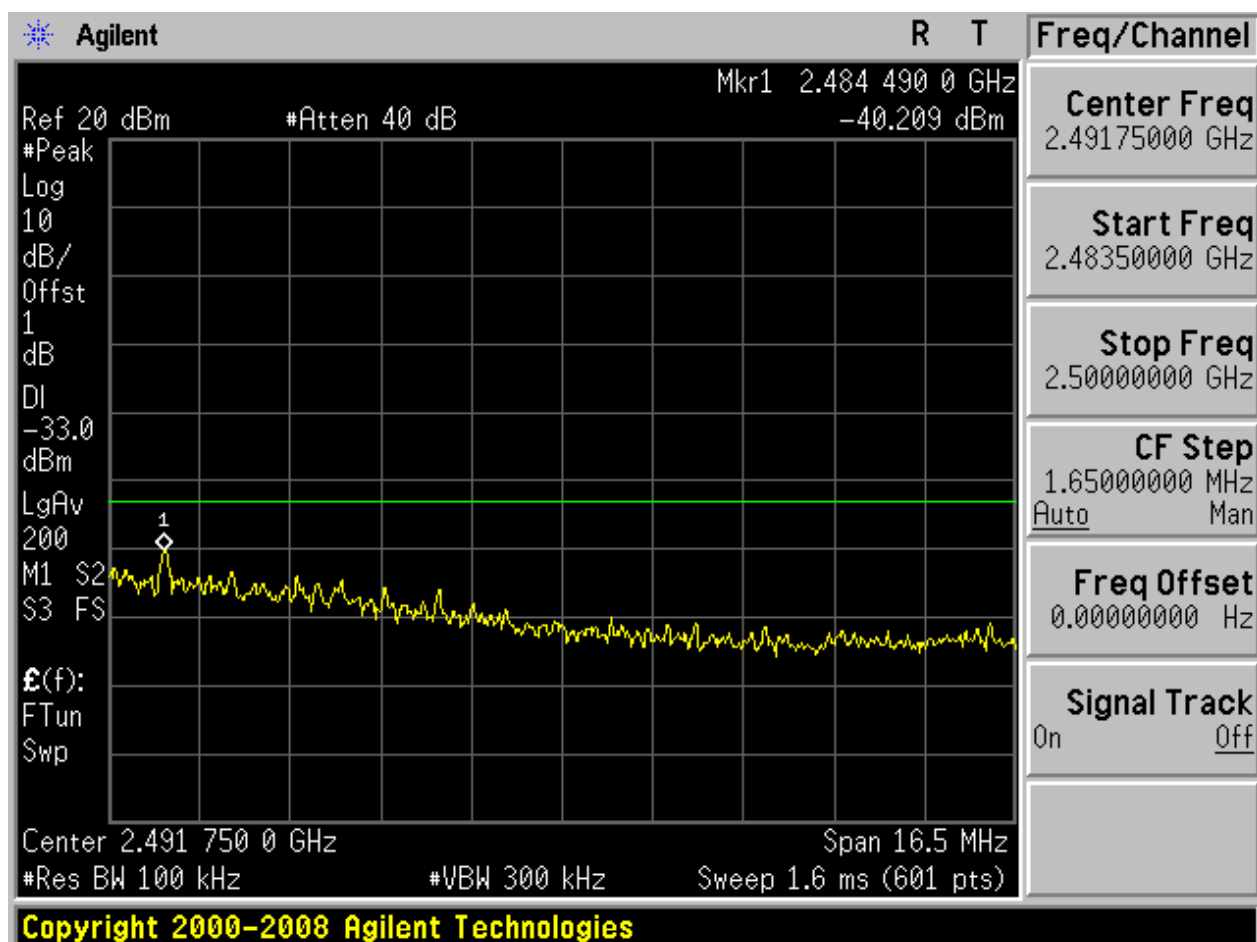
Puw:

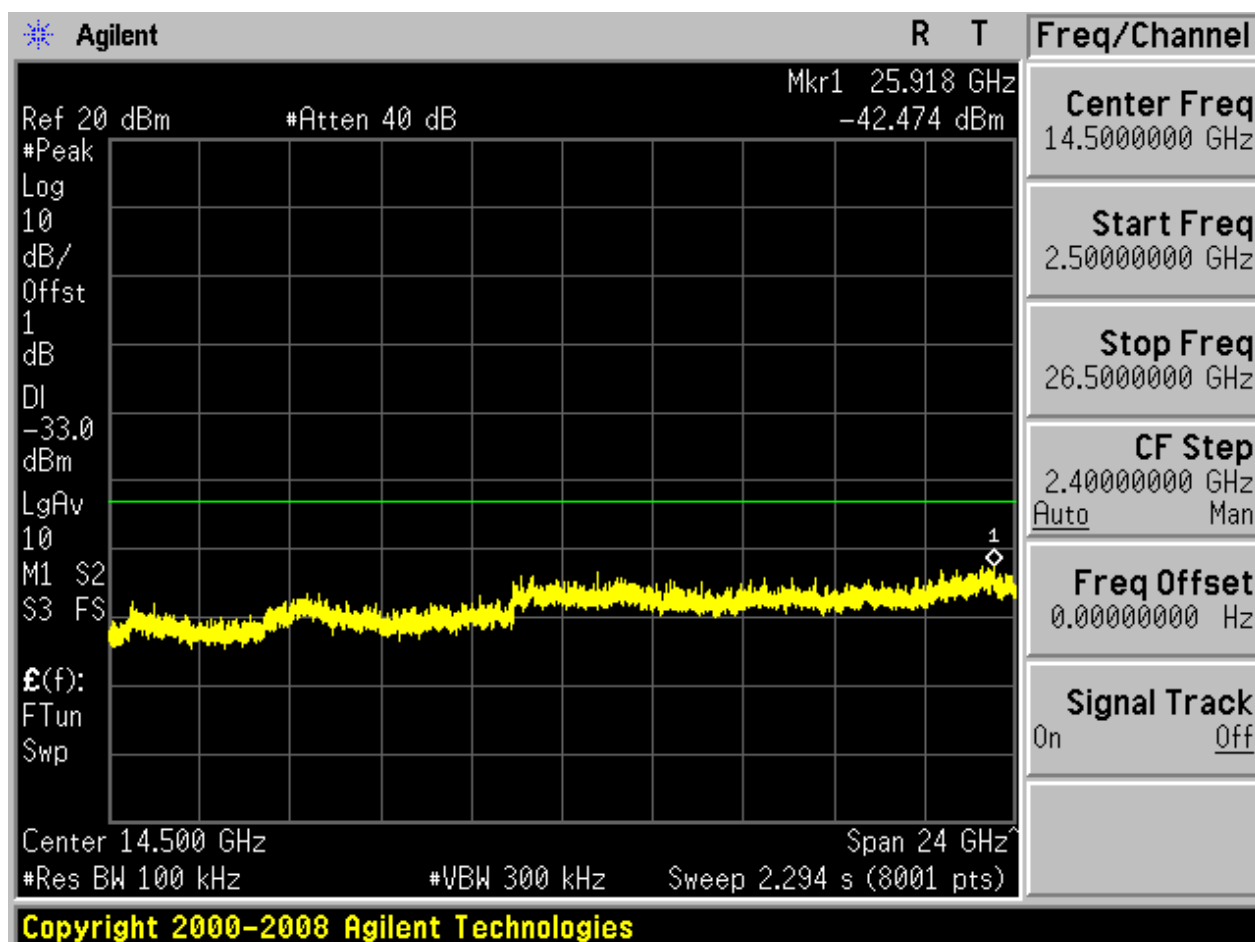






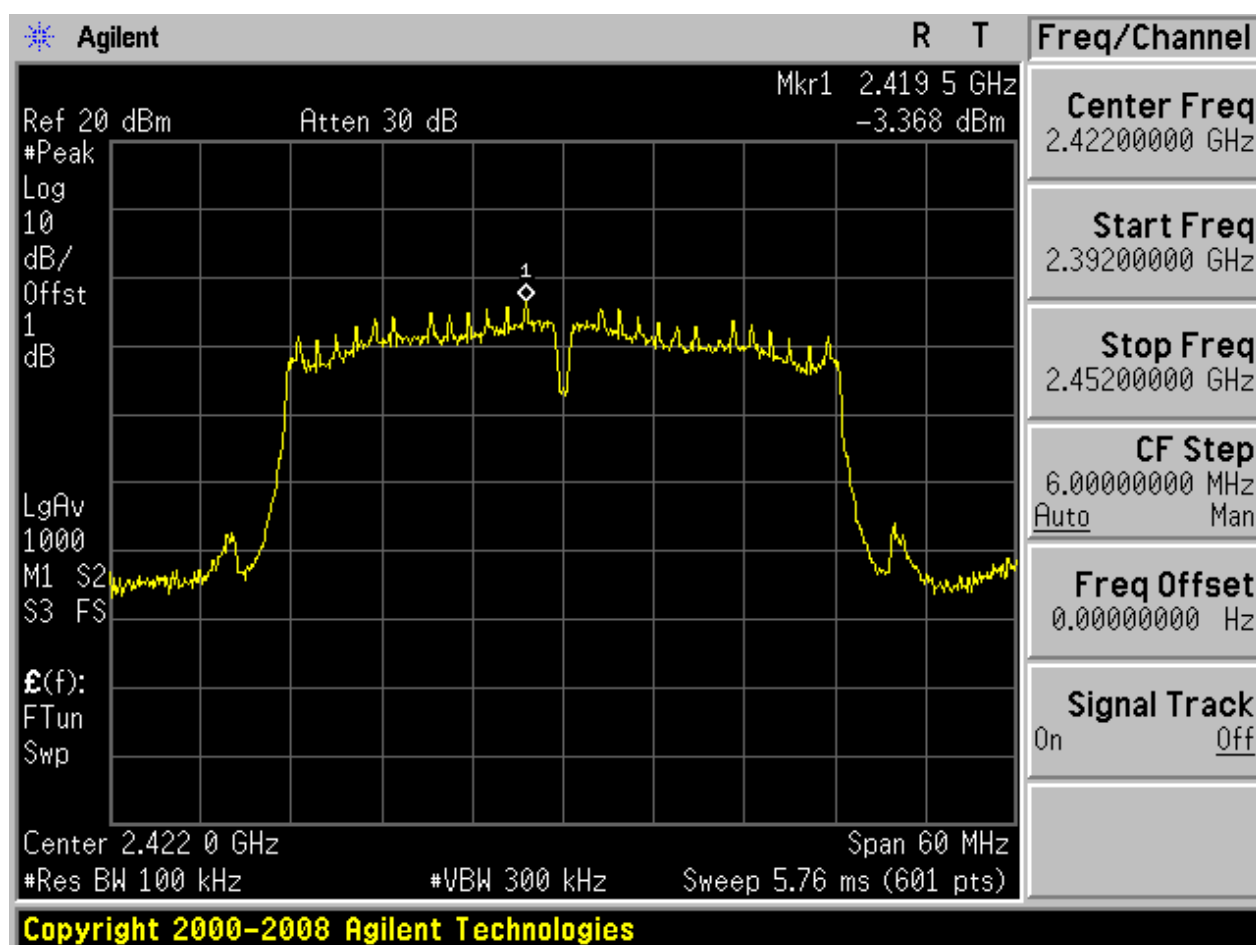




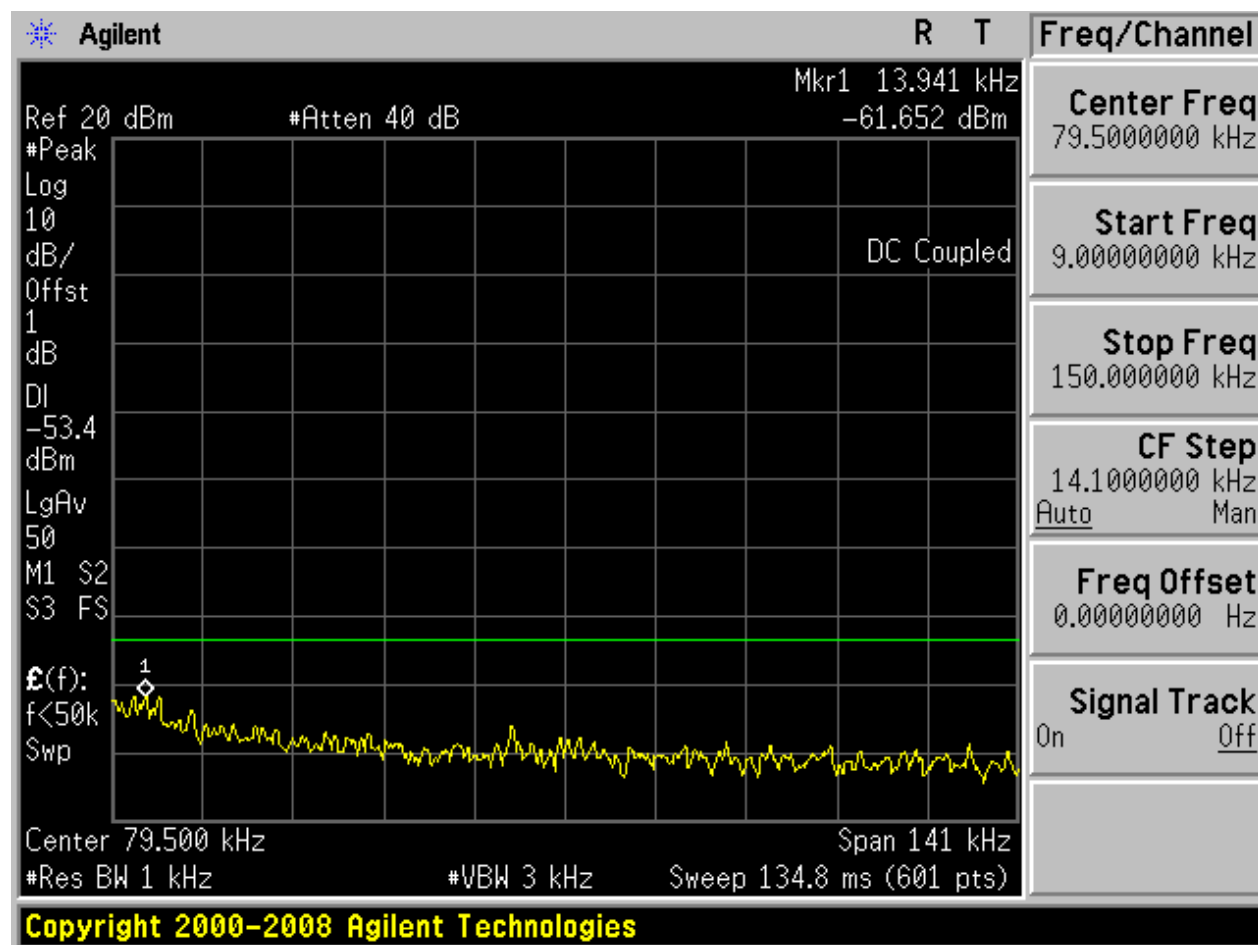


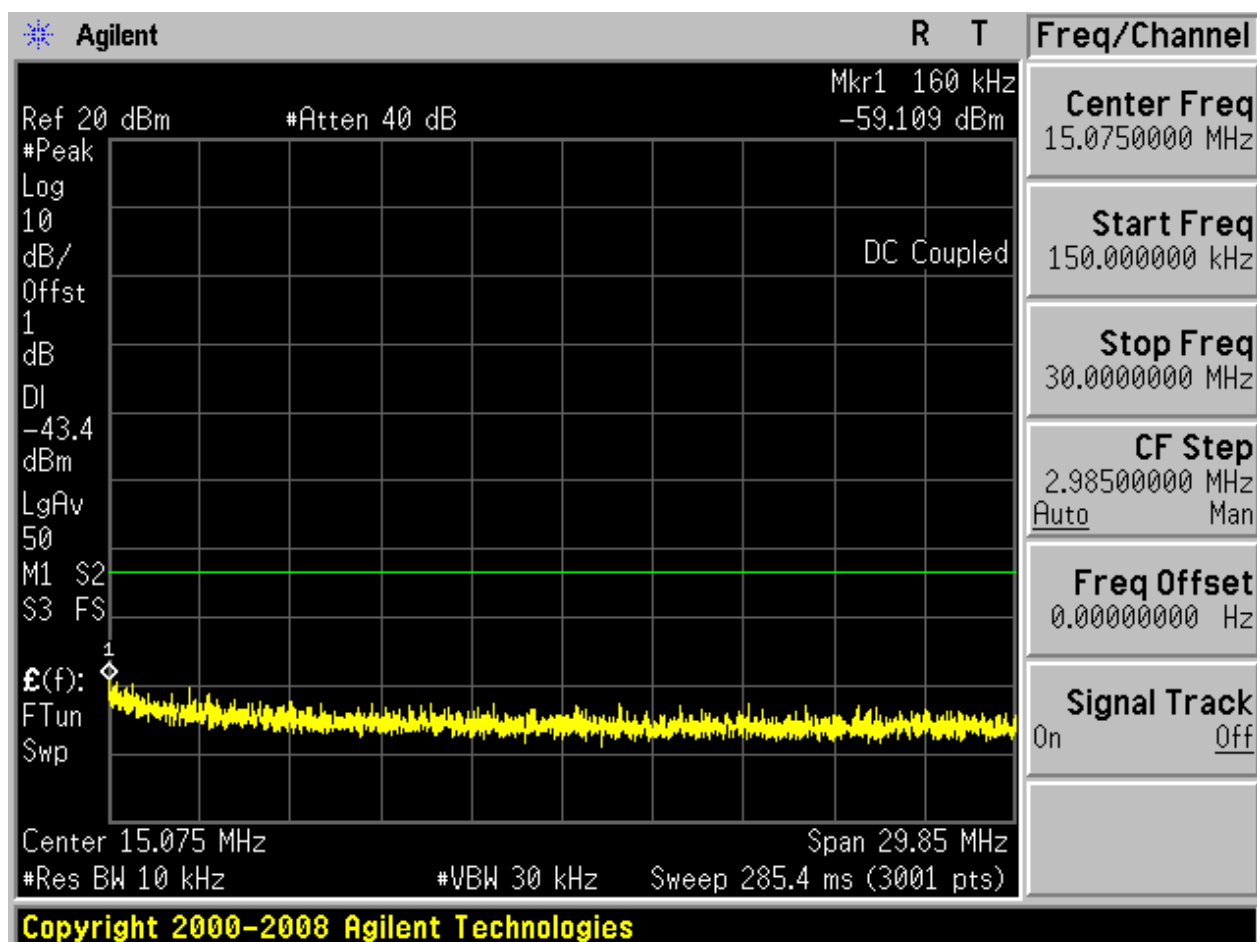
## 2.31 11N40m\_L@Ant 1

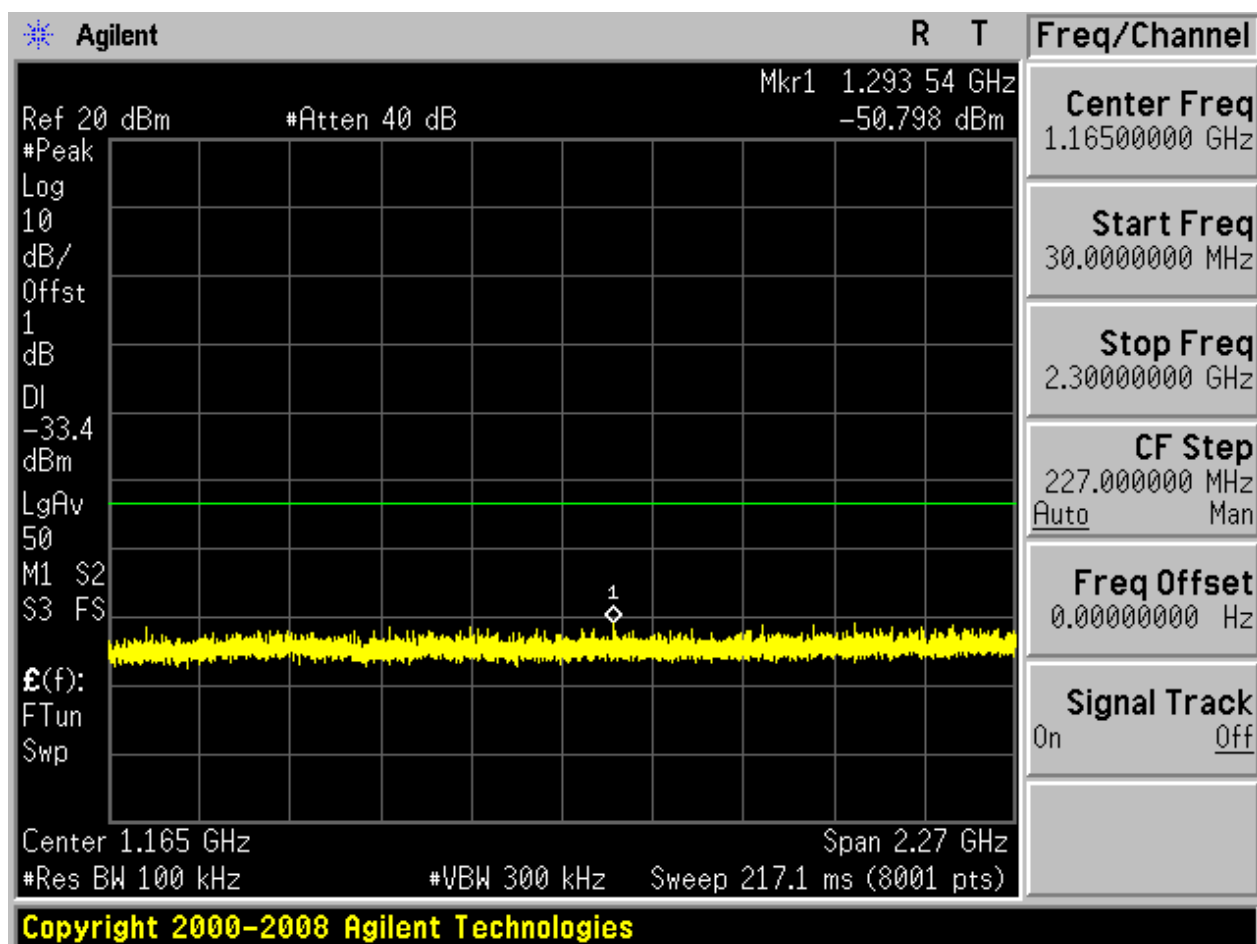
Pref:

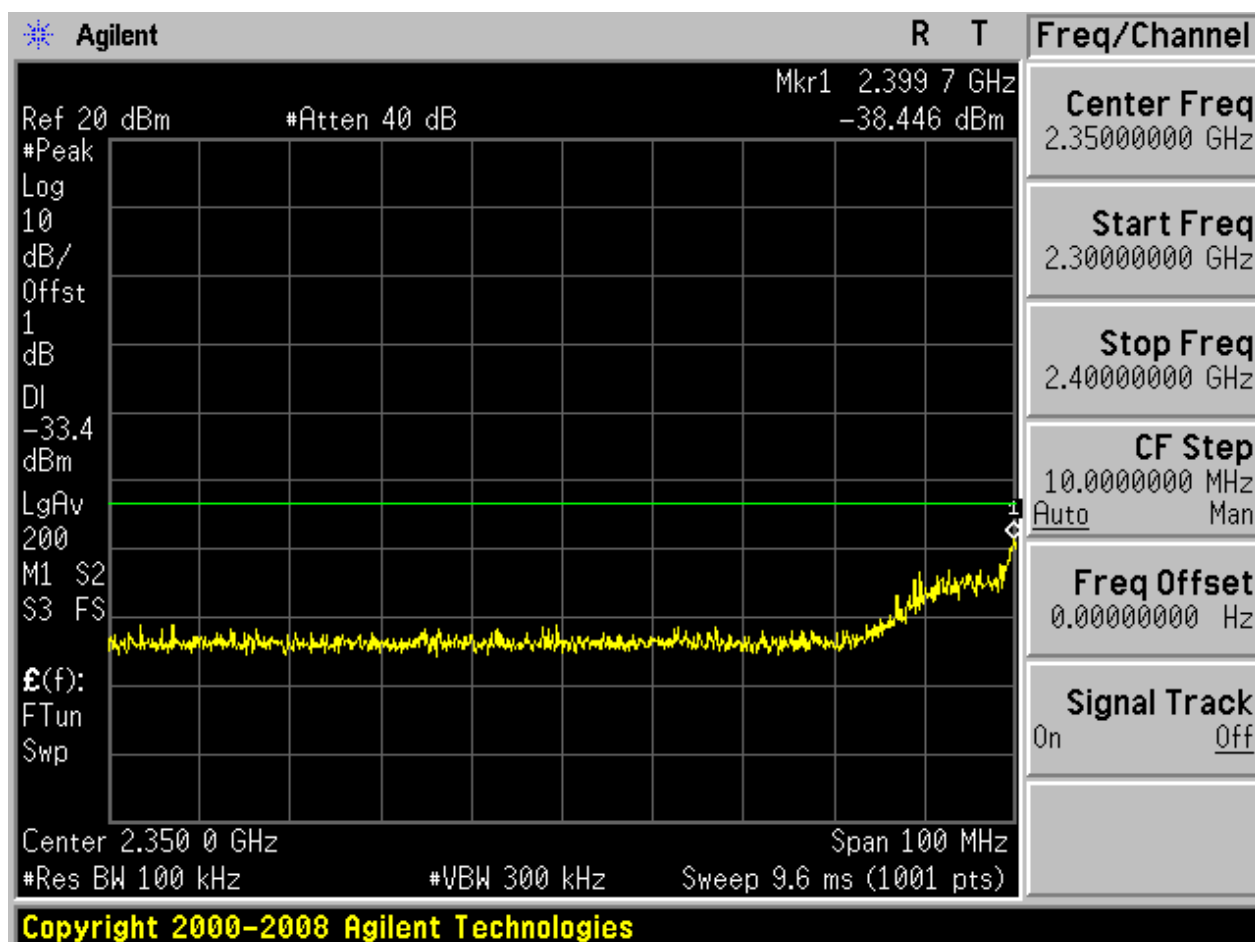


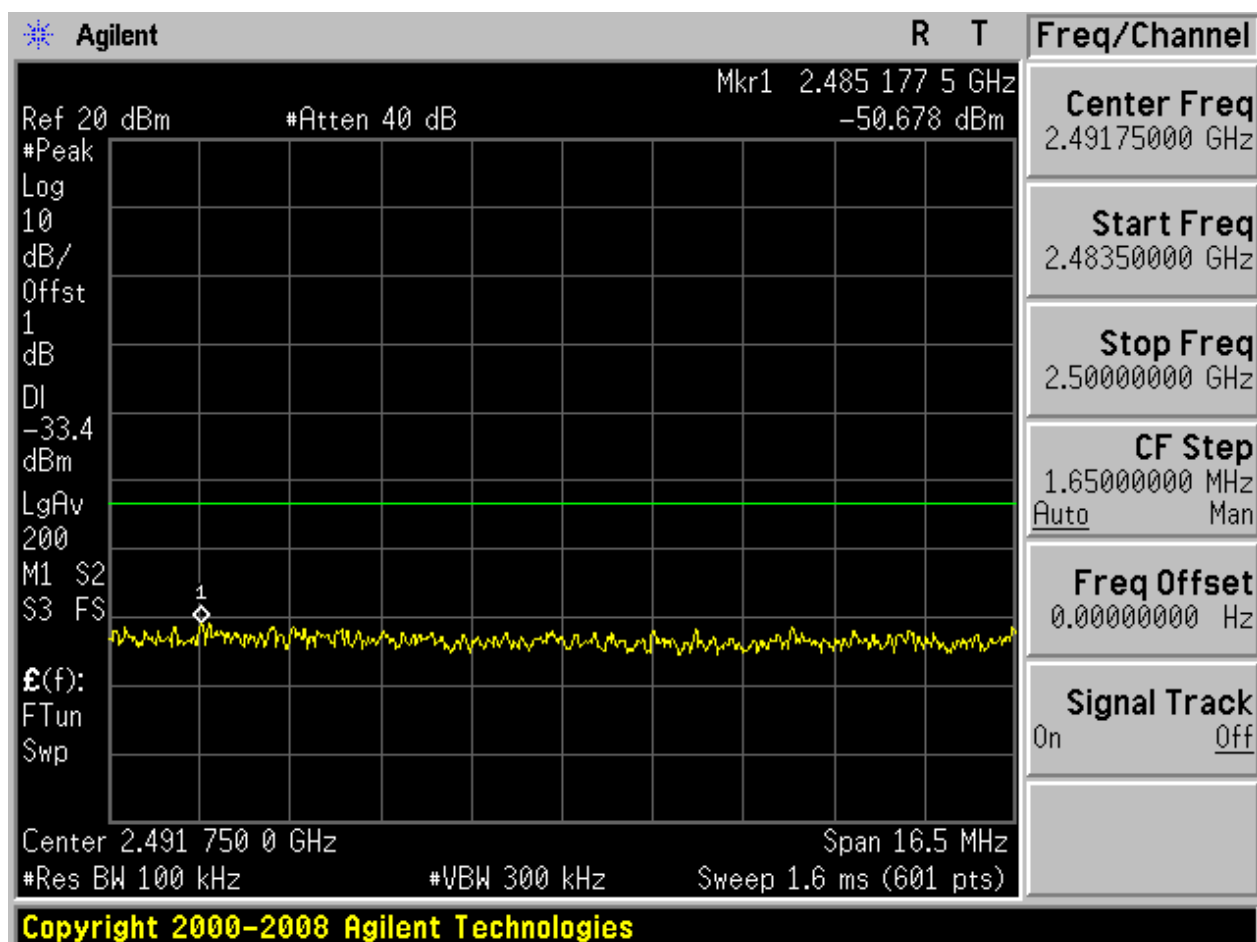
Puw:

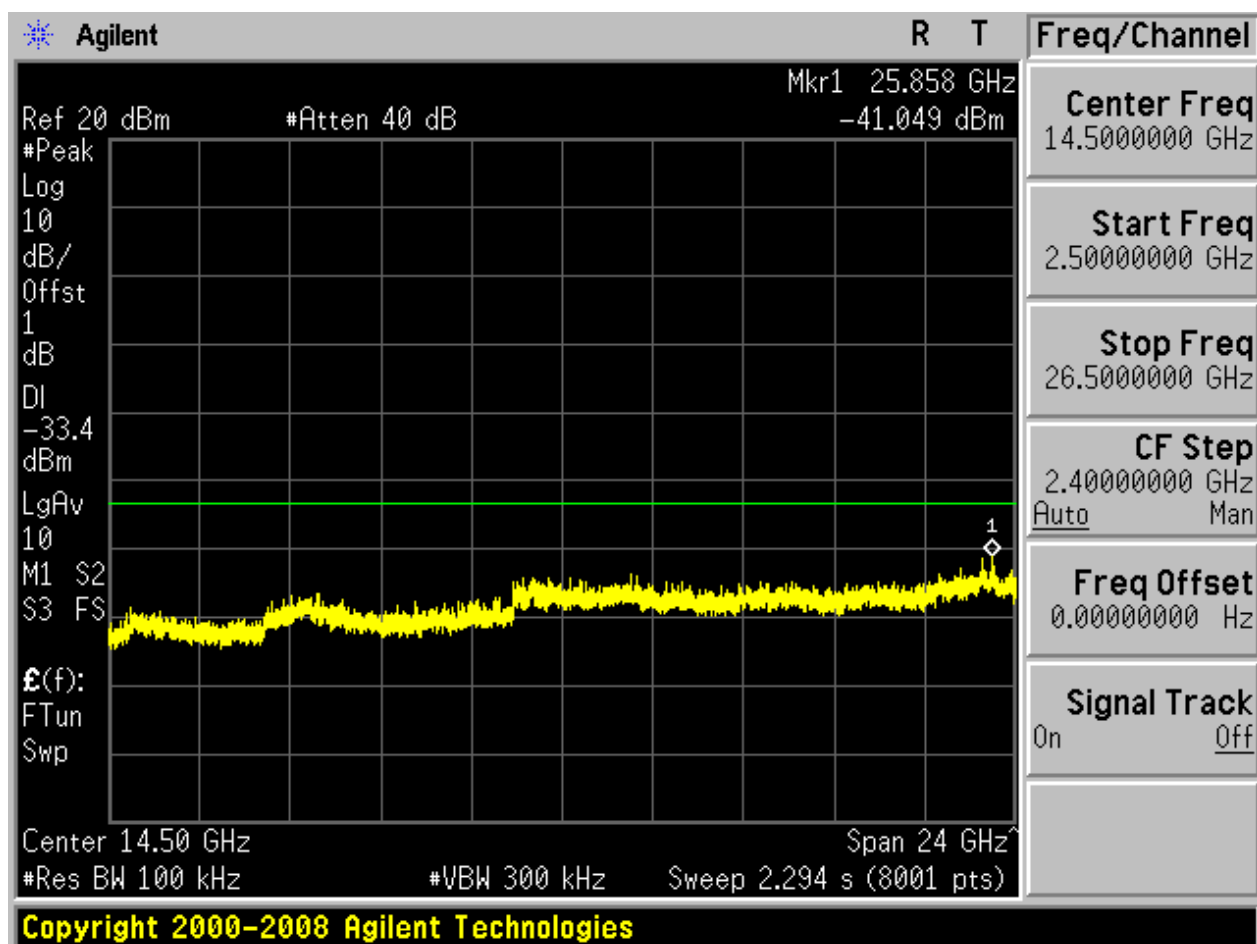






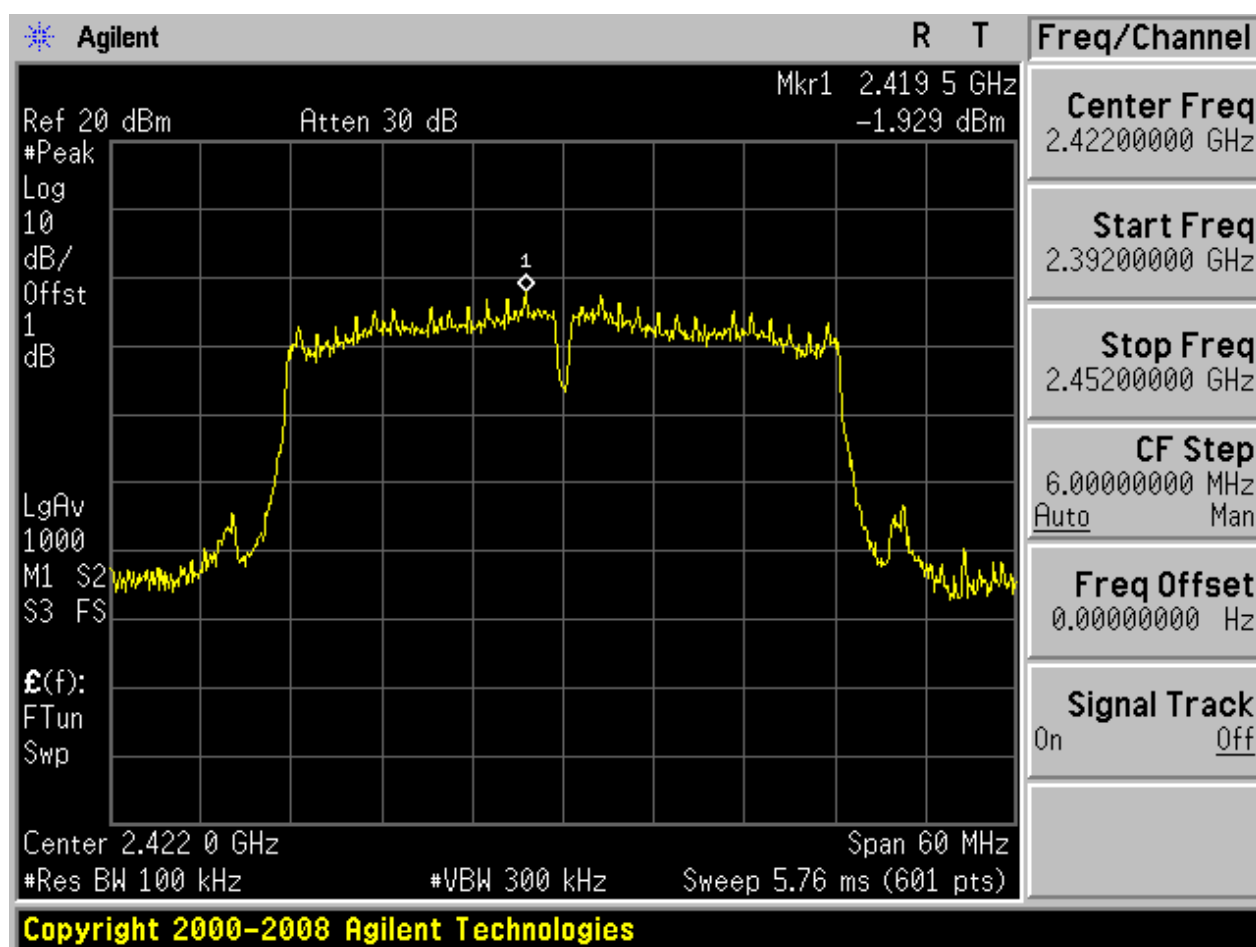






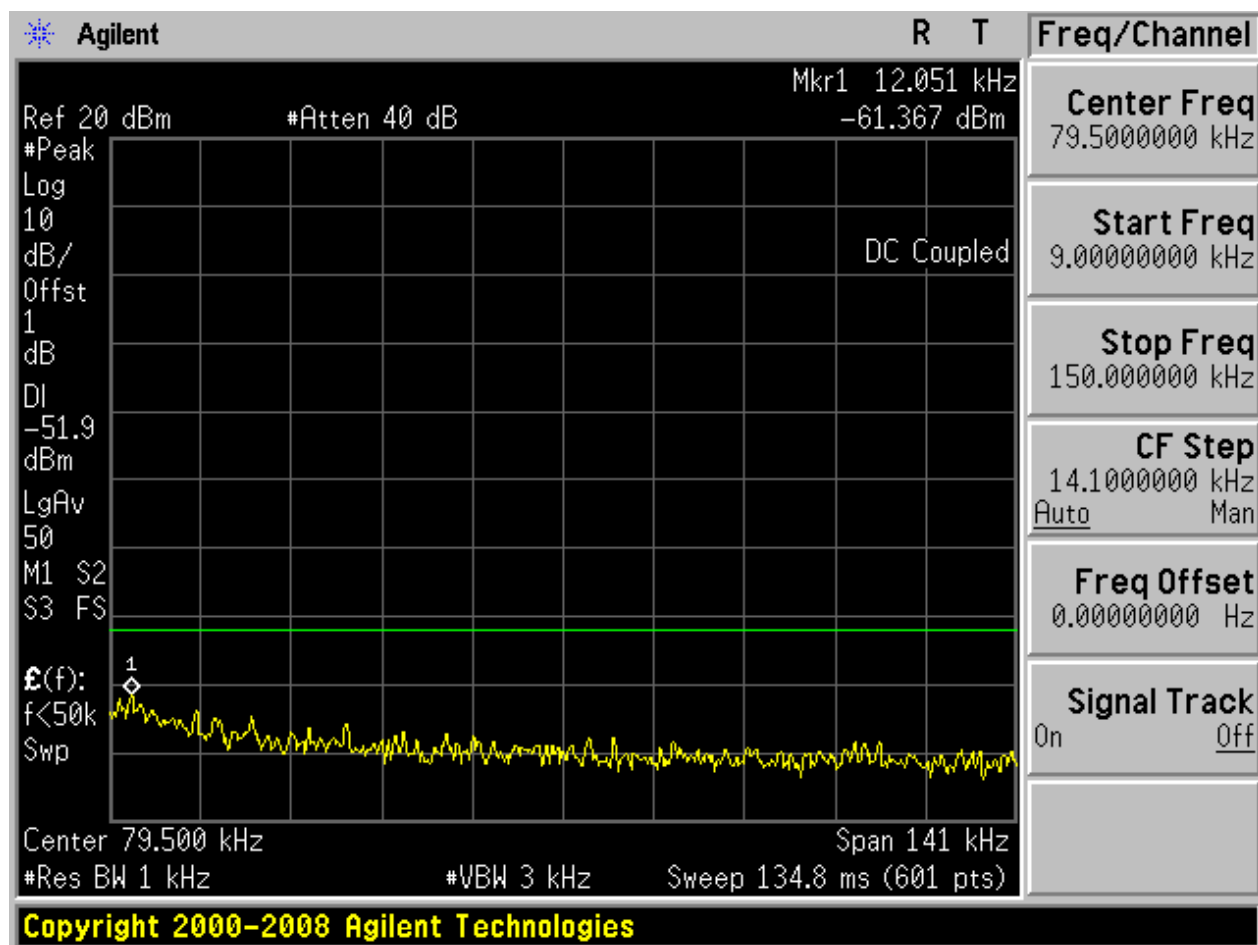
## 2.32 11N40m\_L@Ant 2

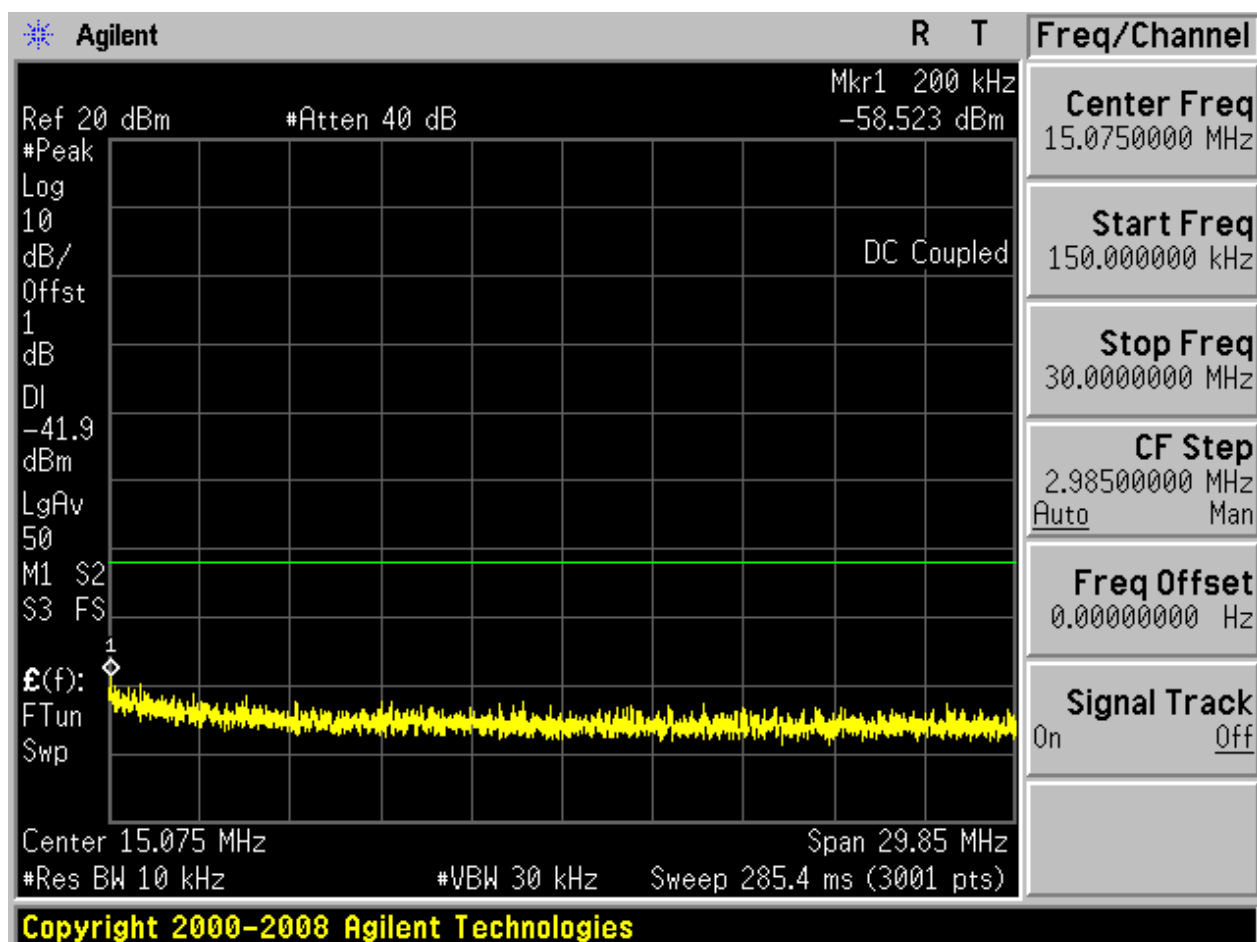
Pref:

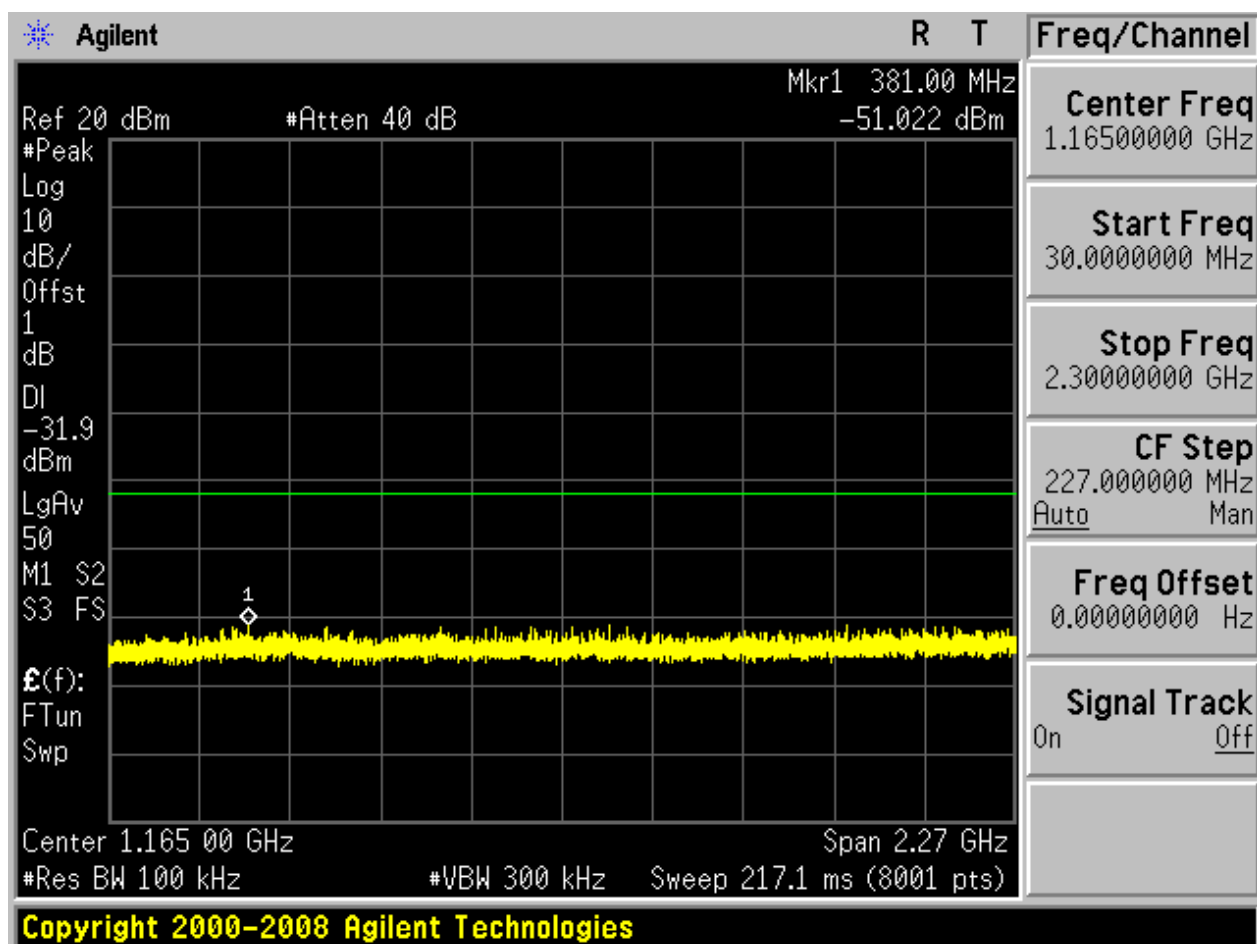


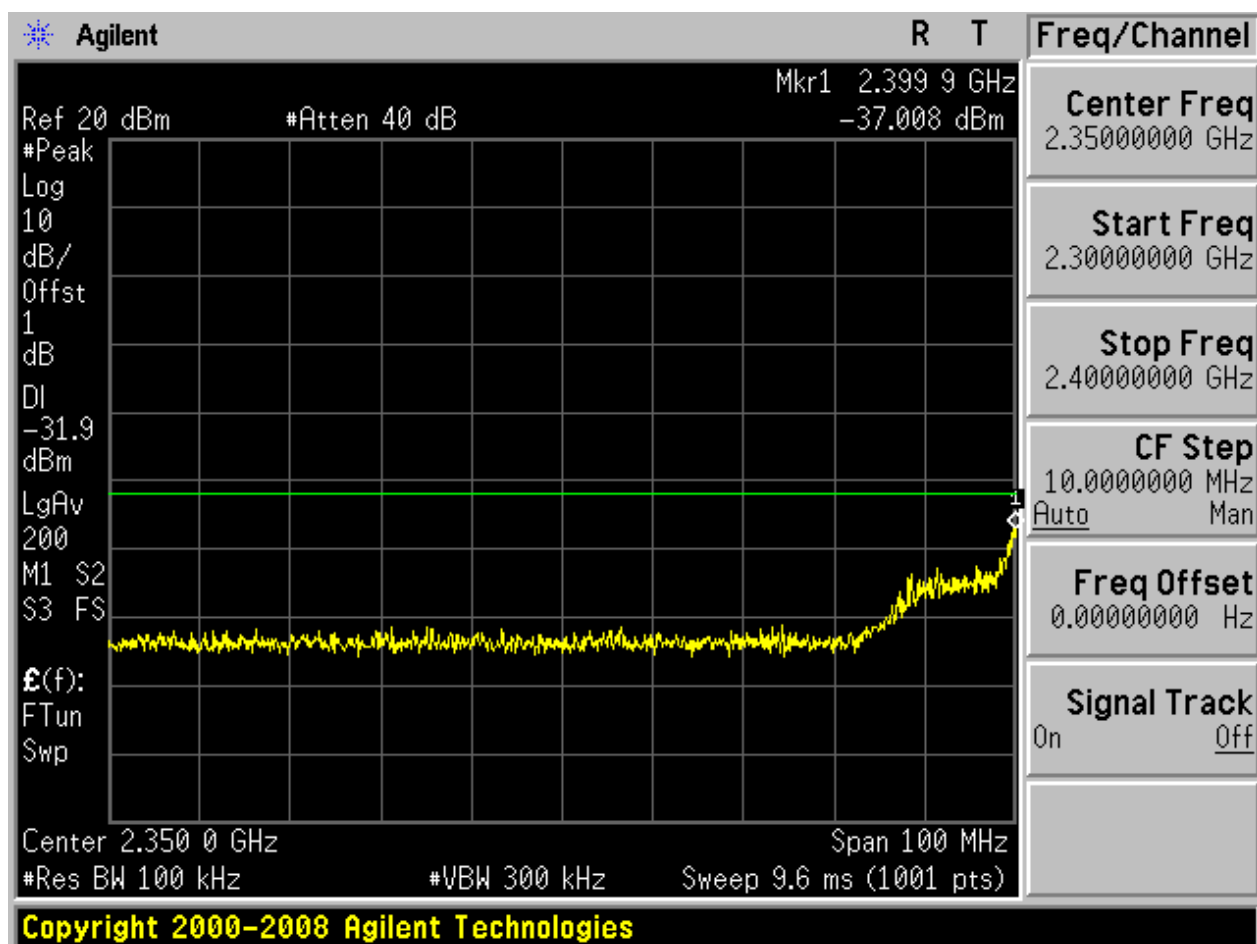


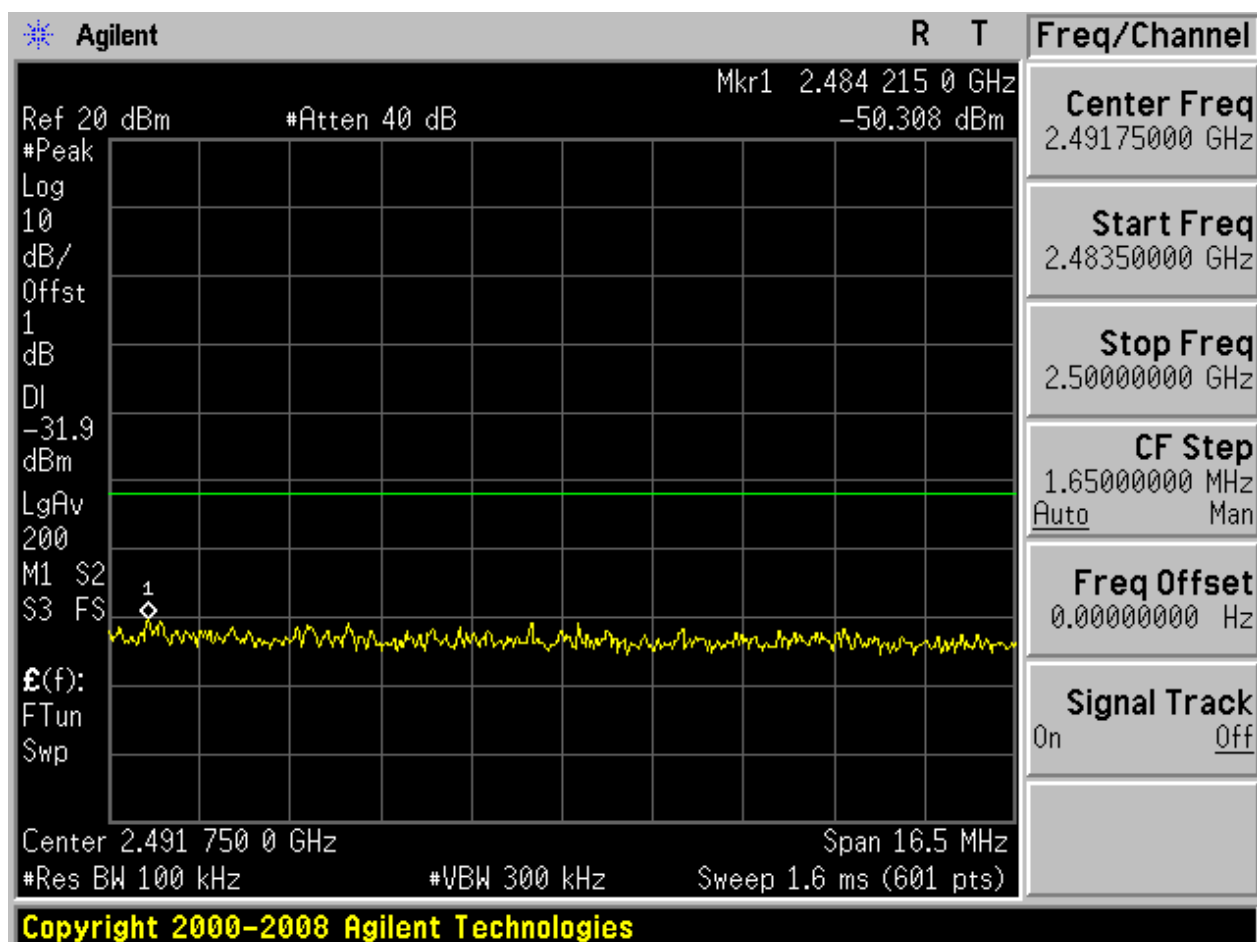
Puw:

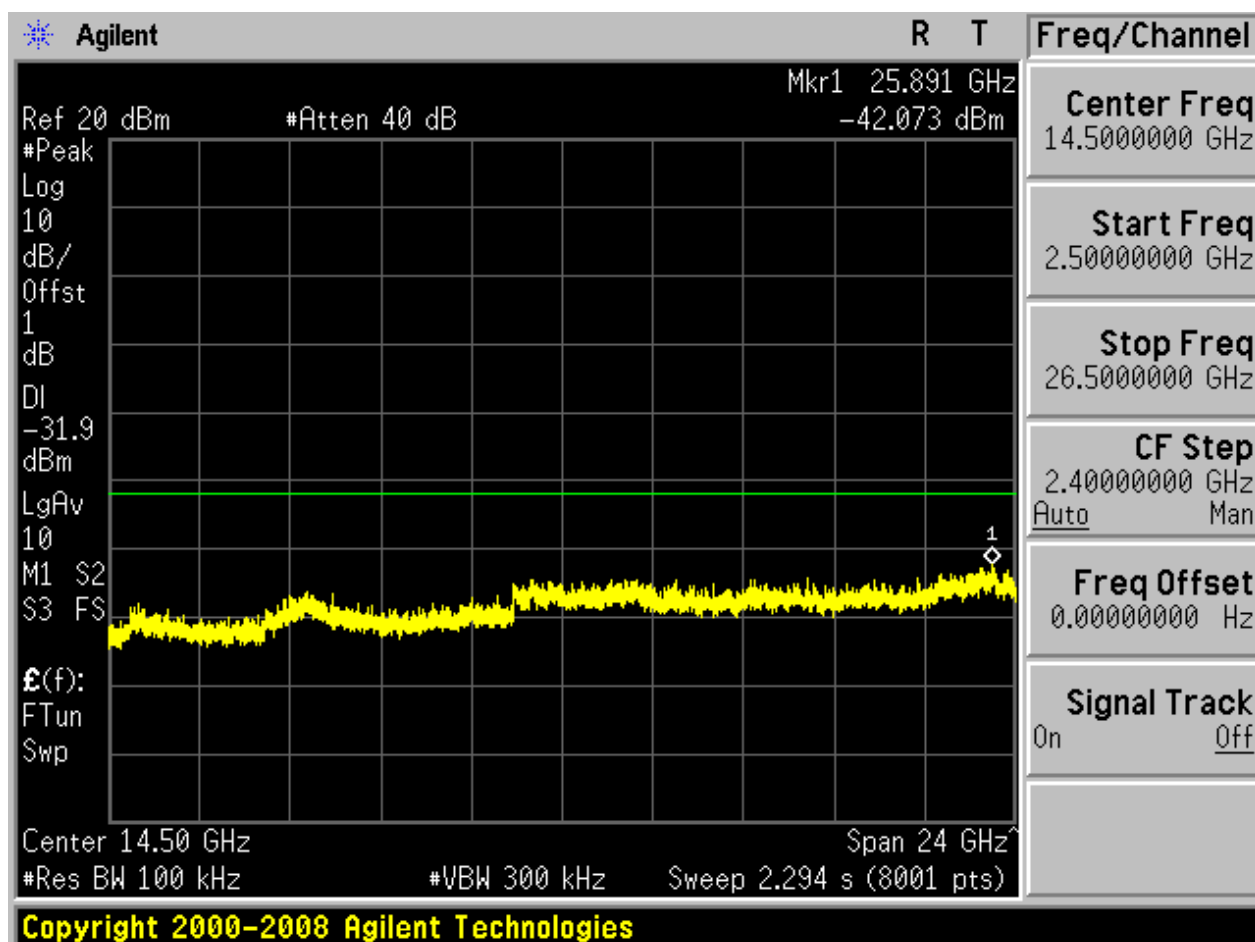






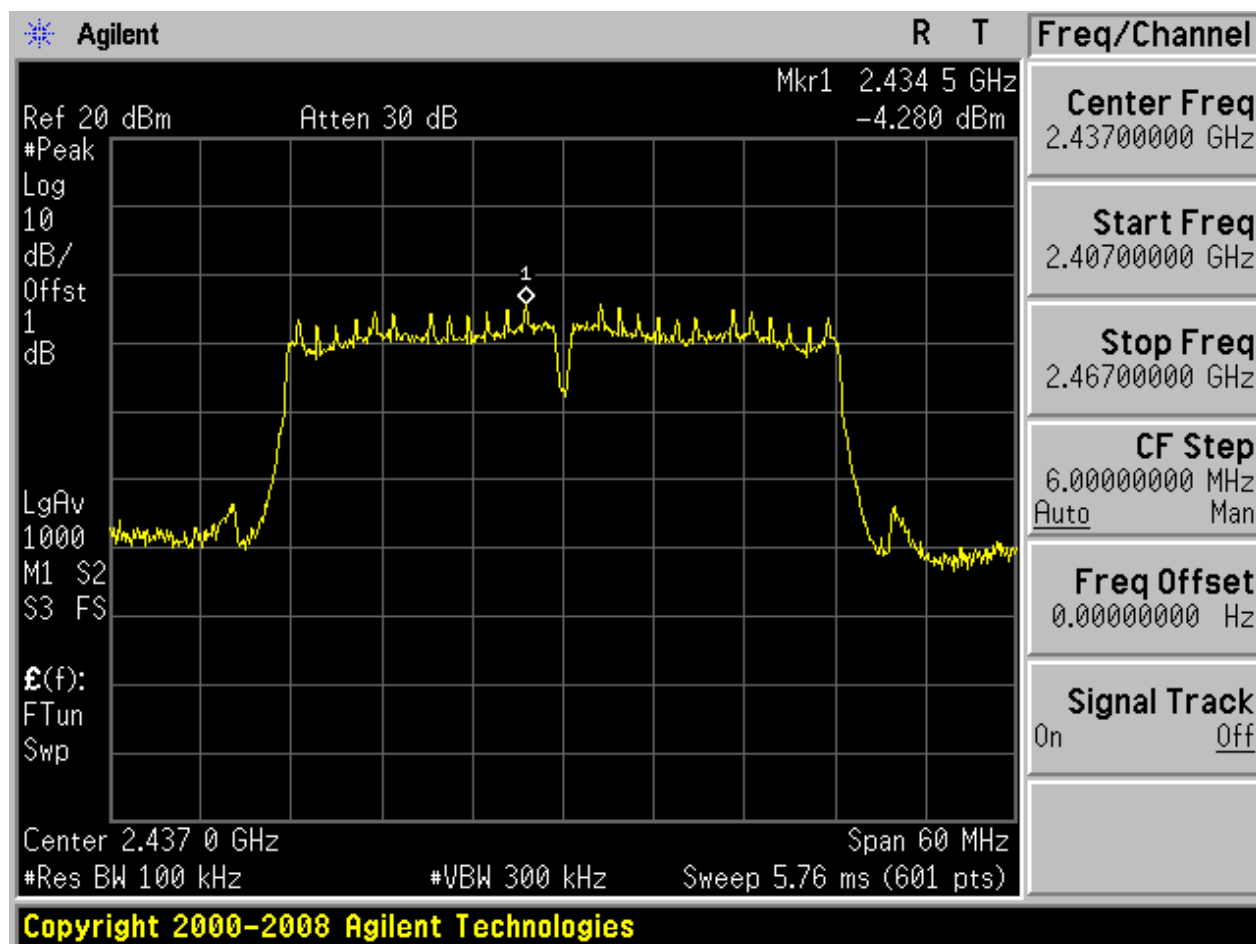






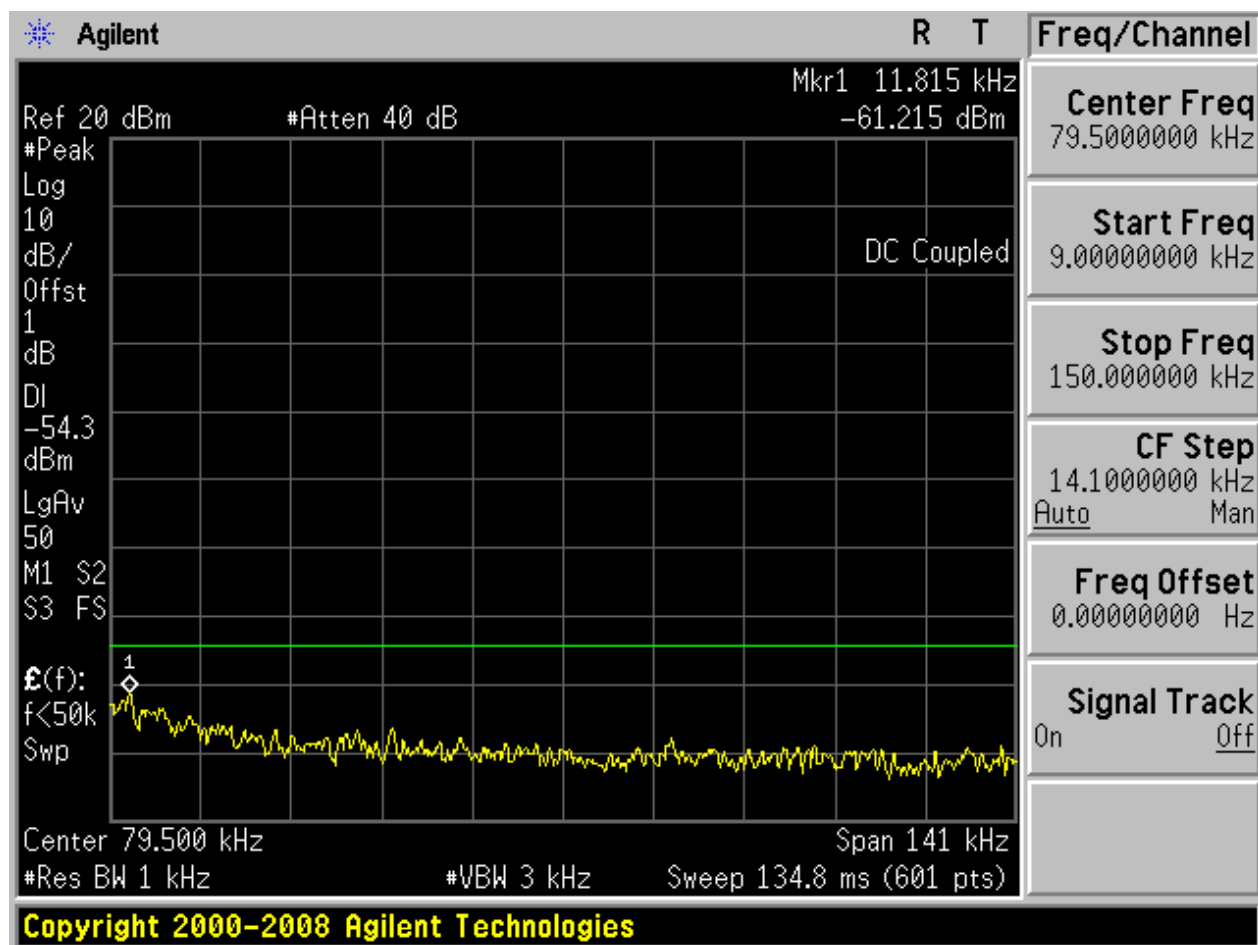
## 2.33 11N40m\_M@Ant 1

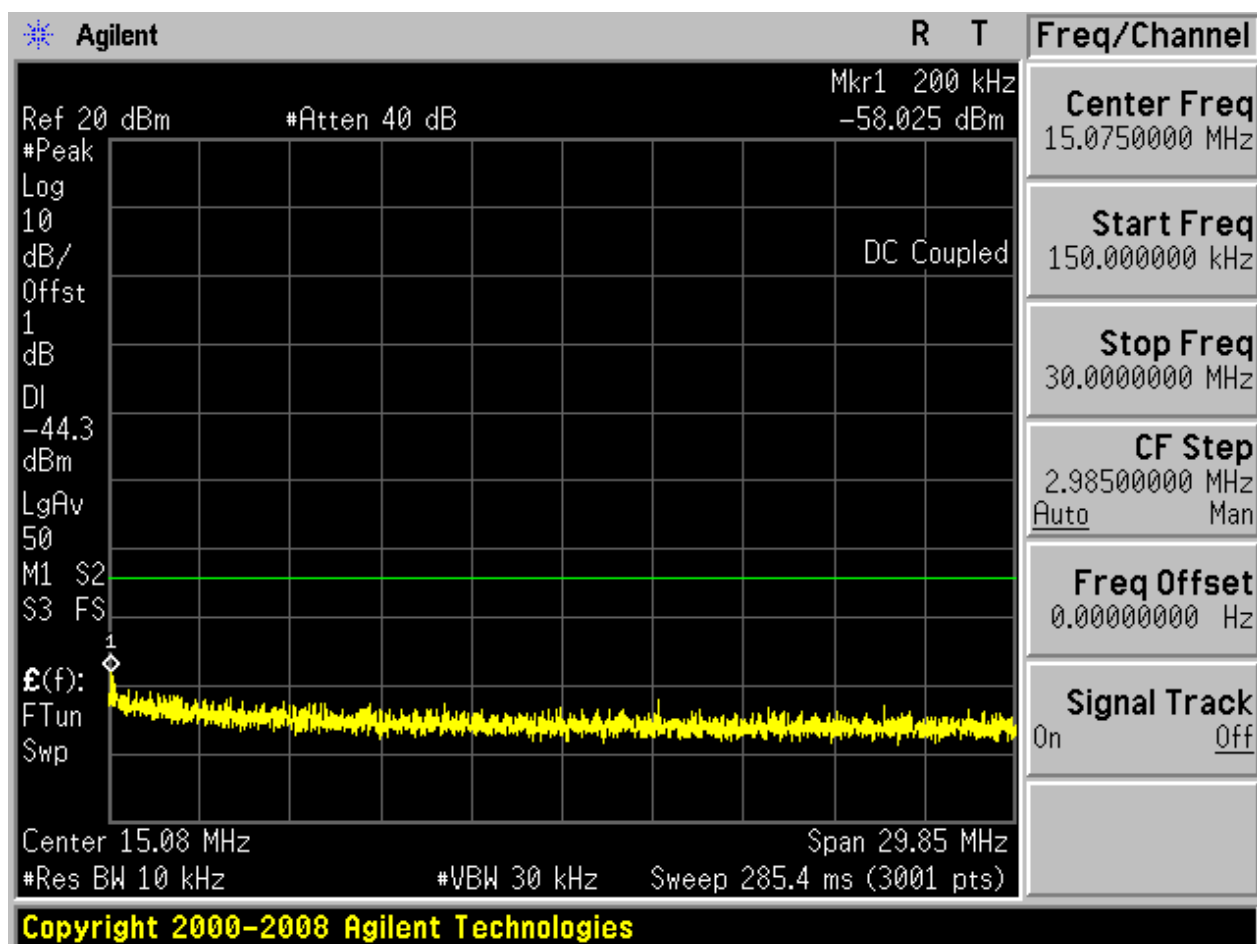
Pref:

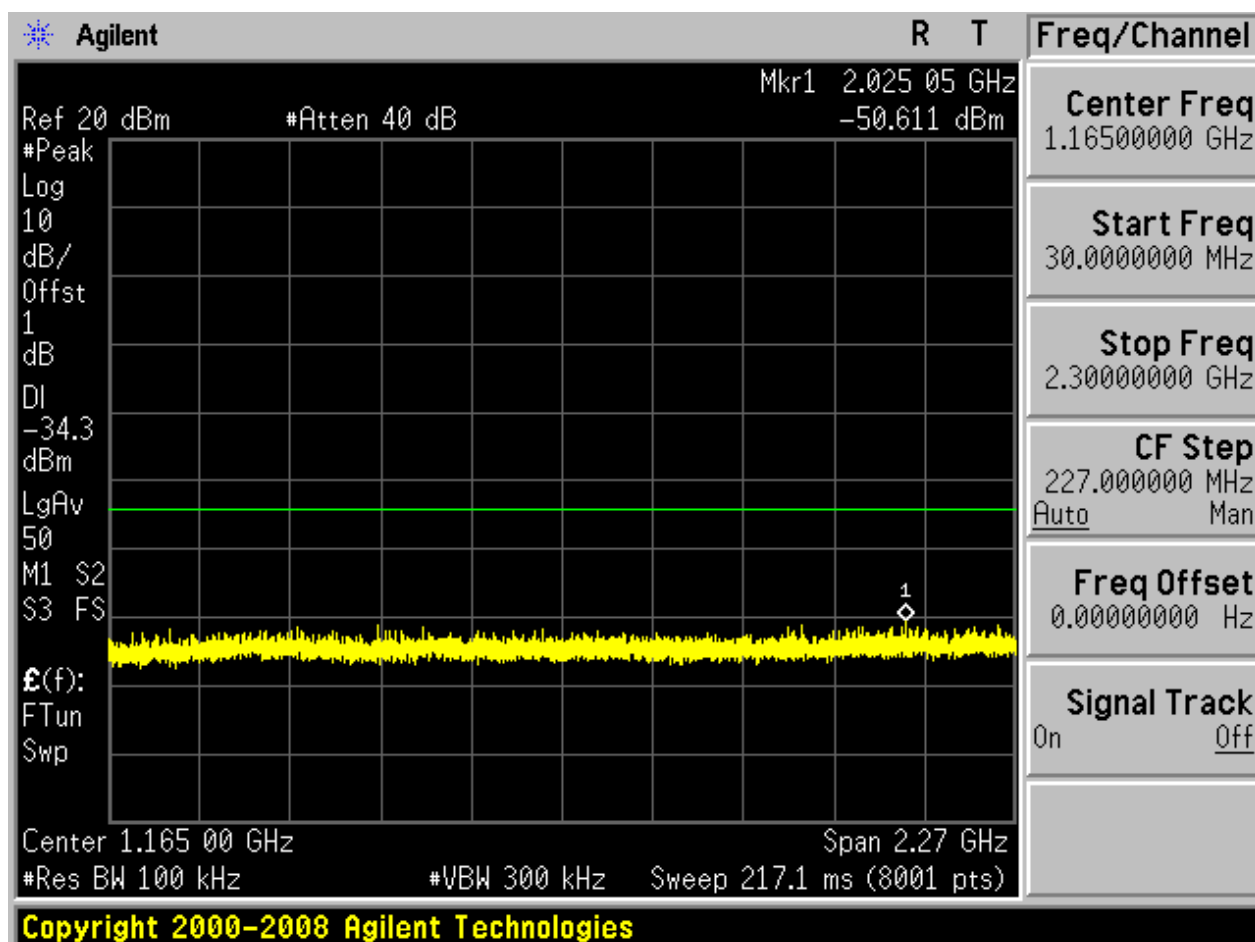


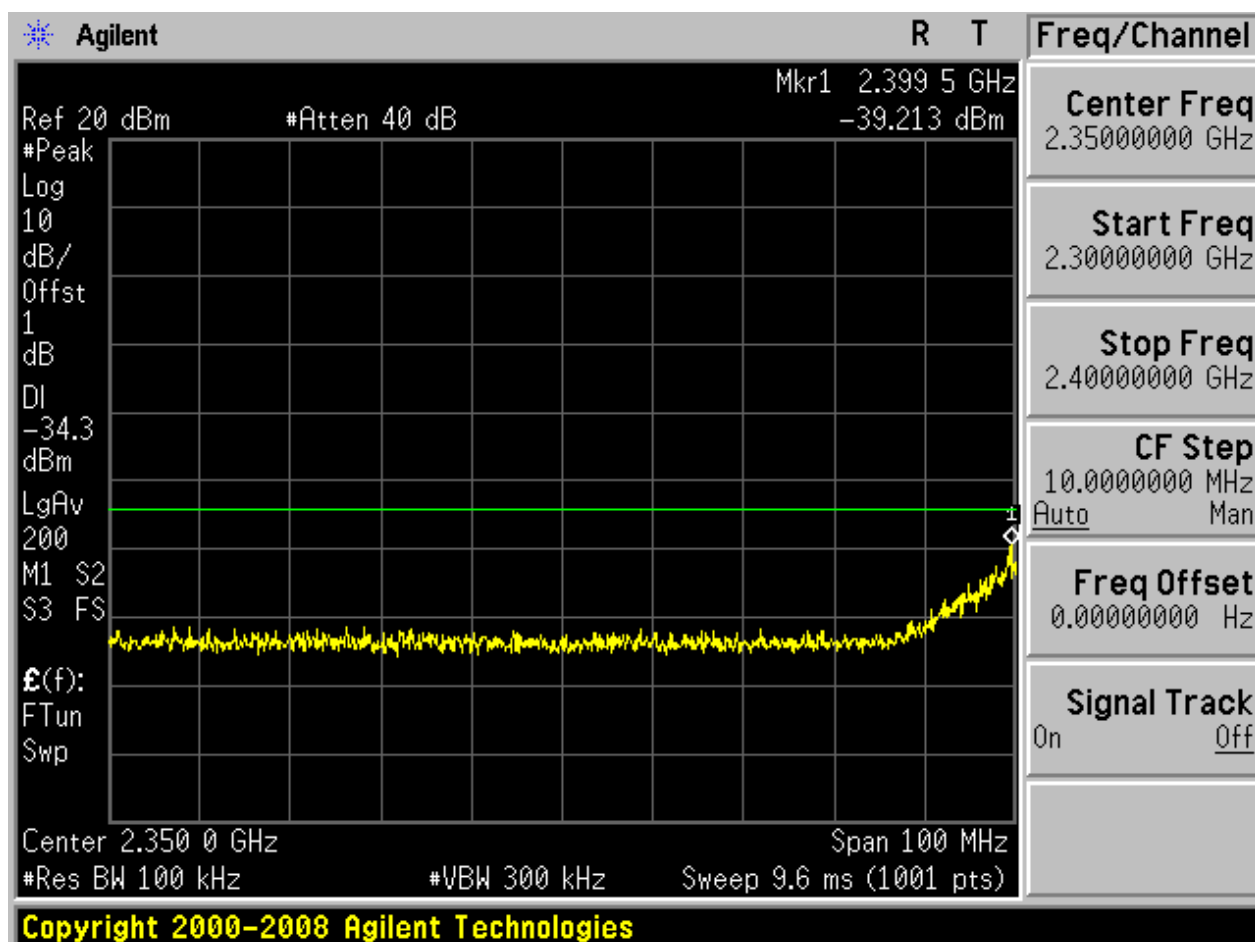


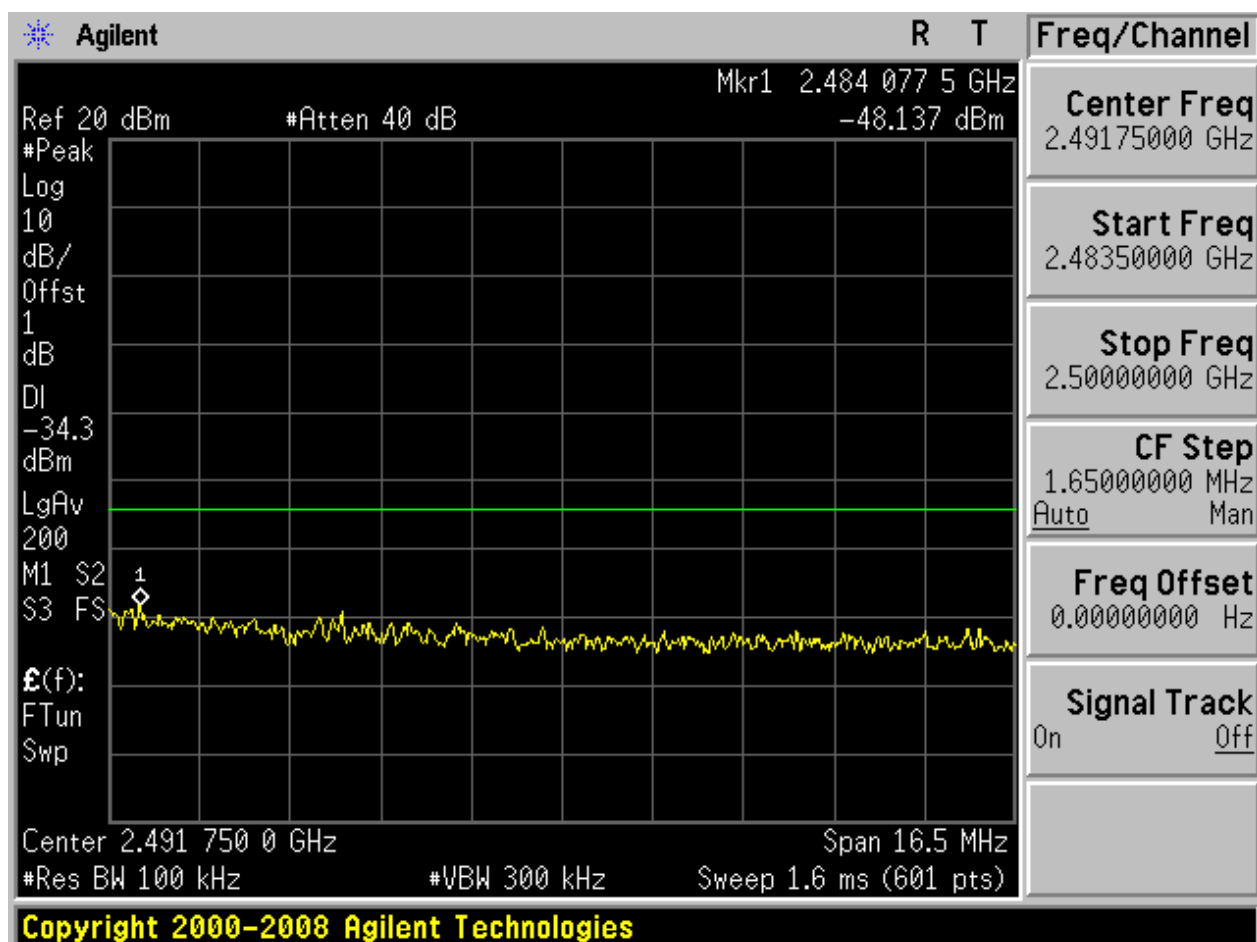
Puw:

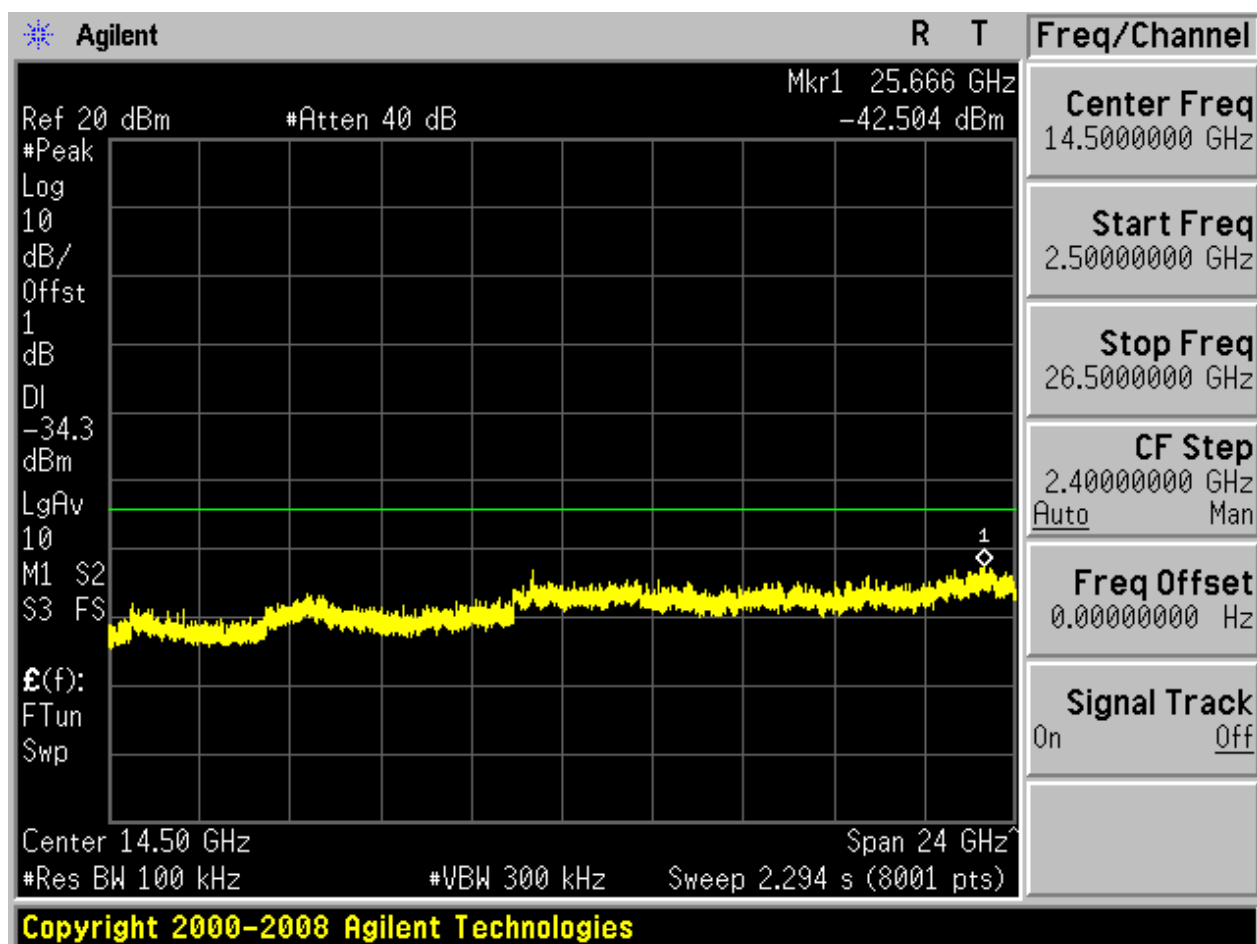






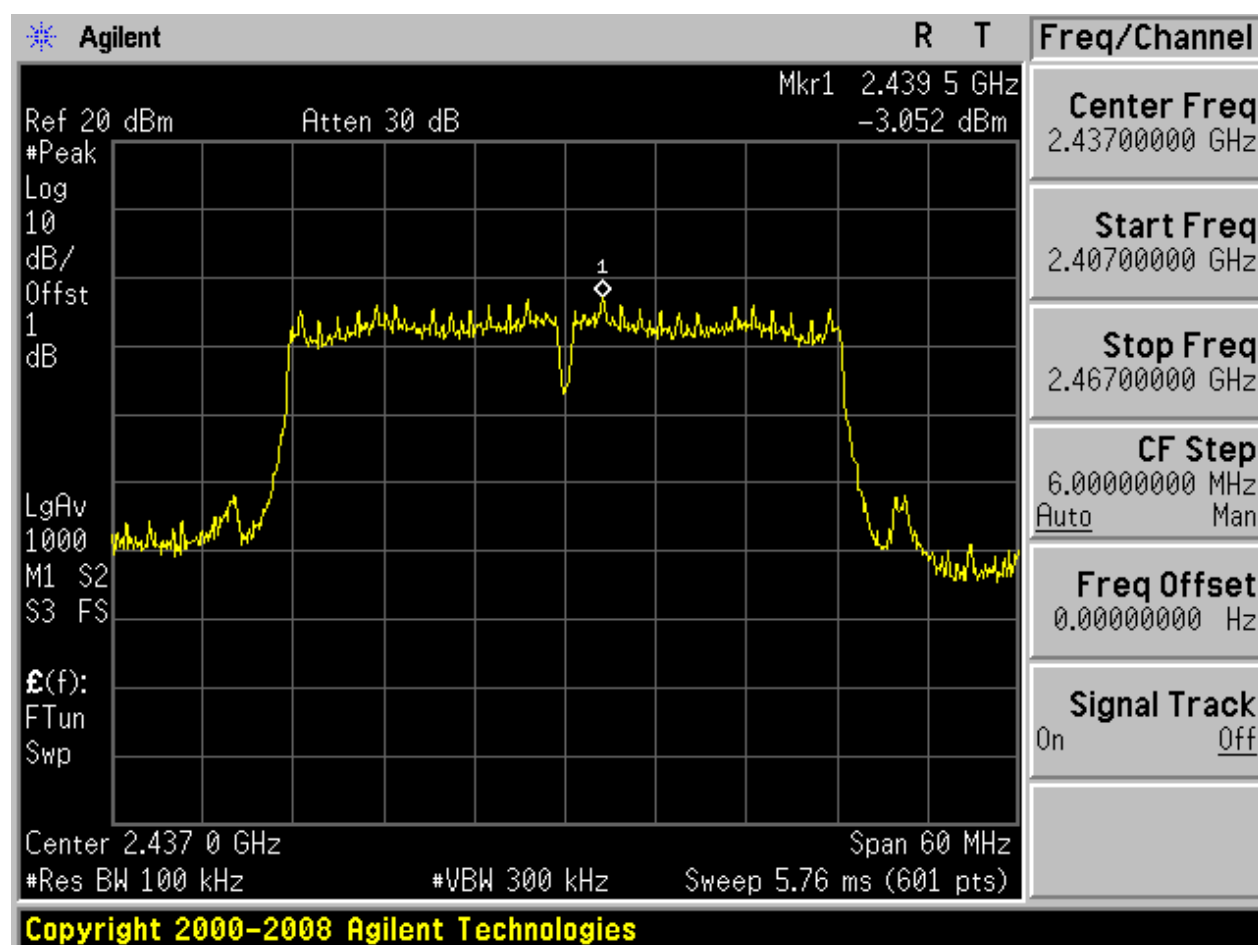






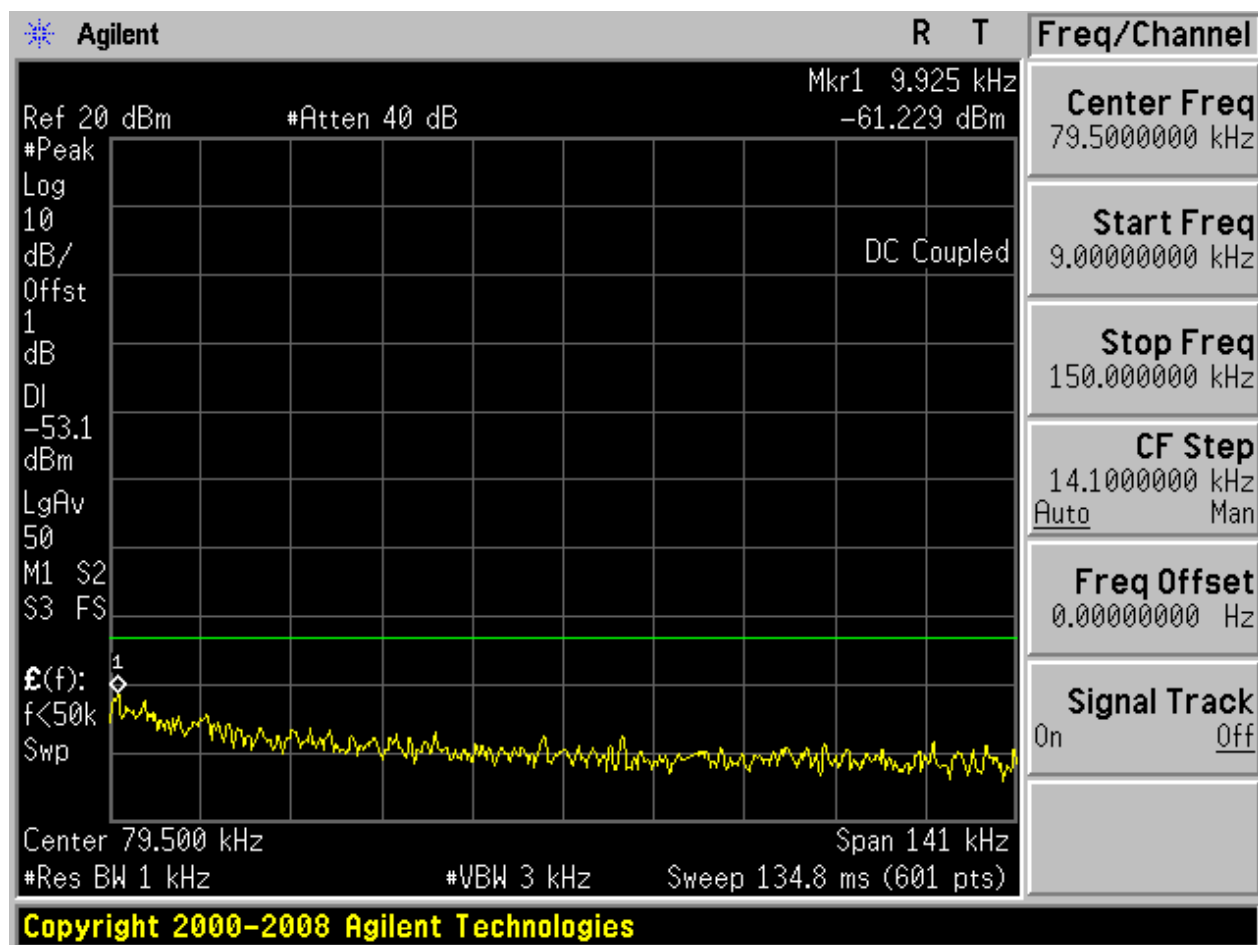
## 2.34 11N40m\_M@Ant 2

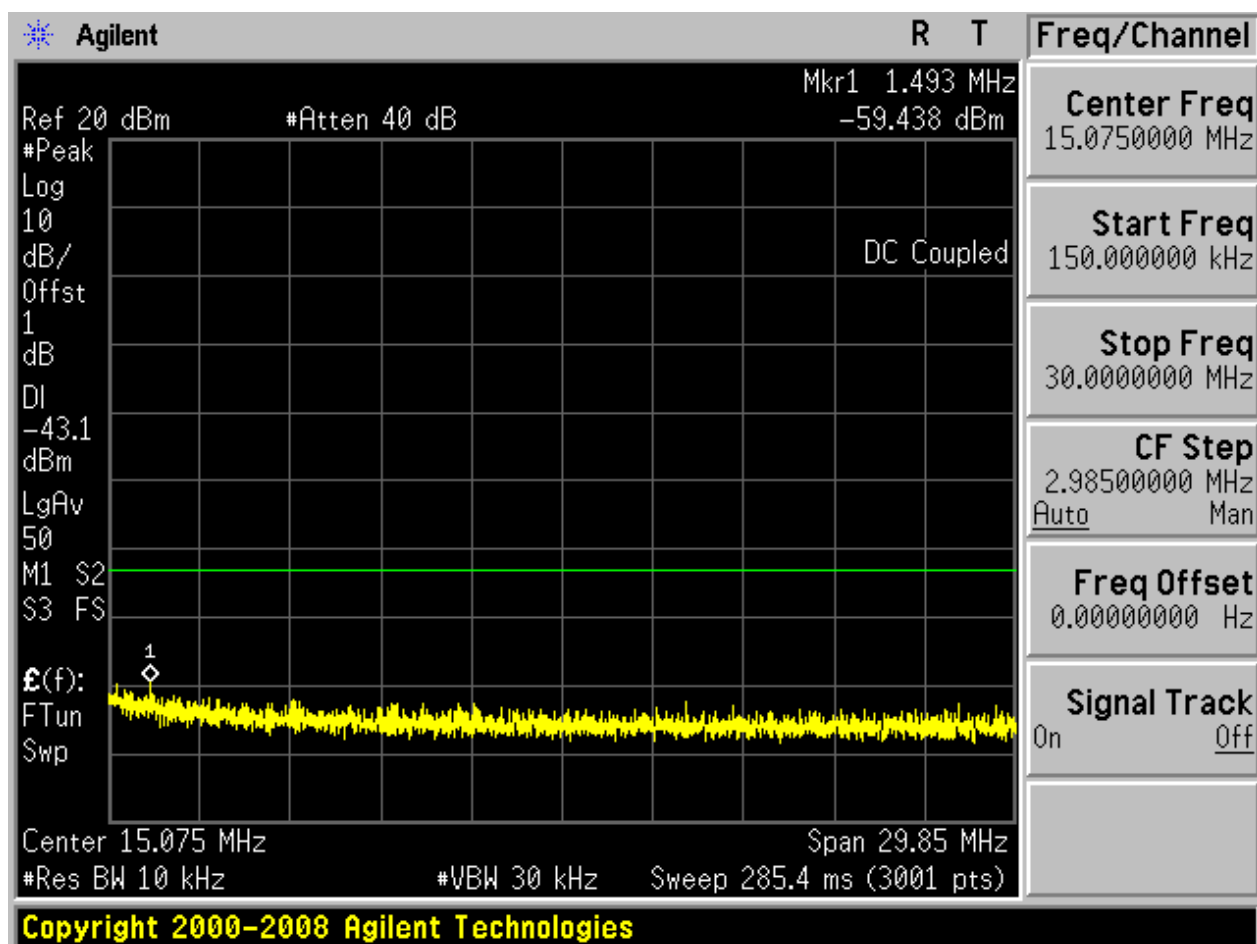
Pref:

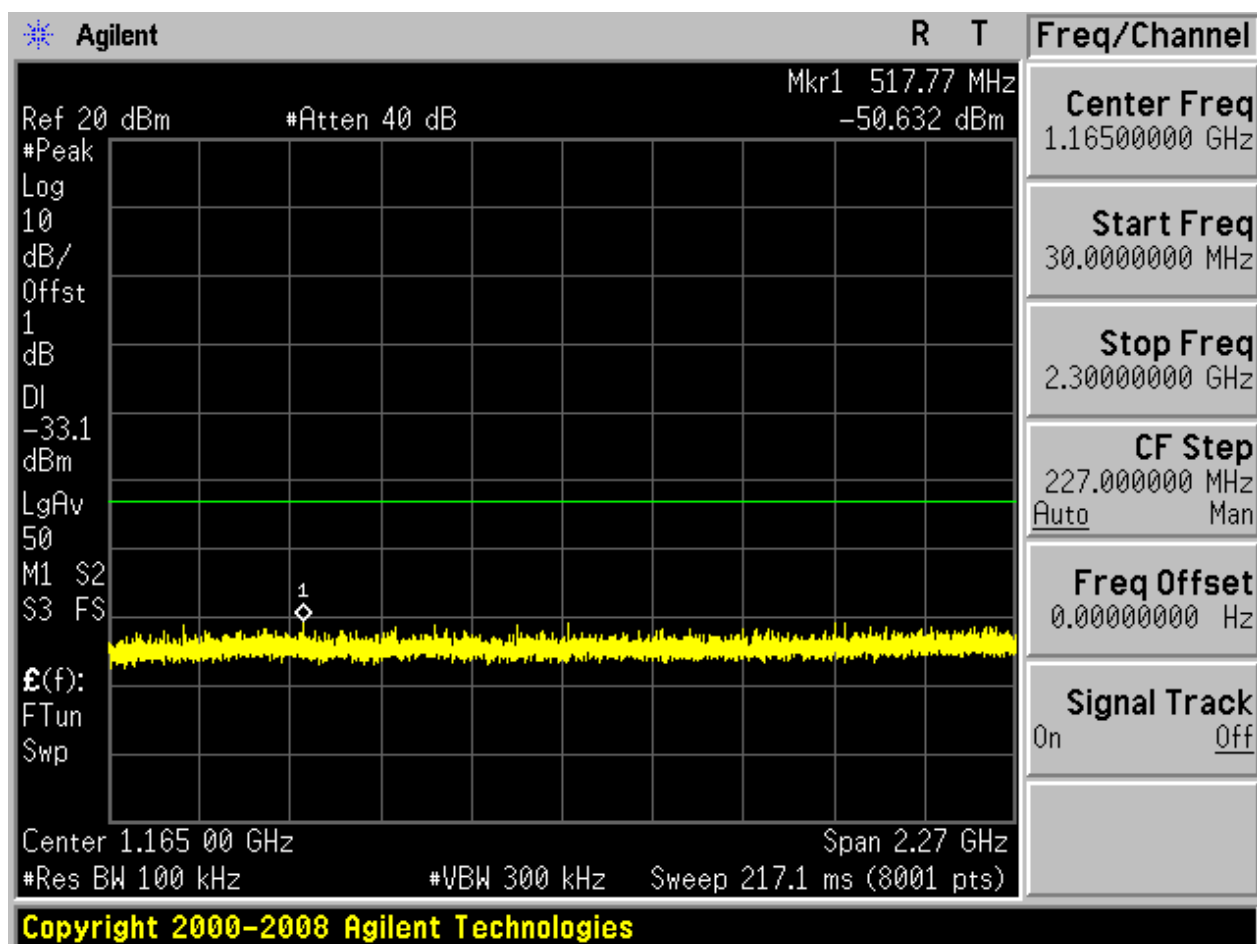


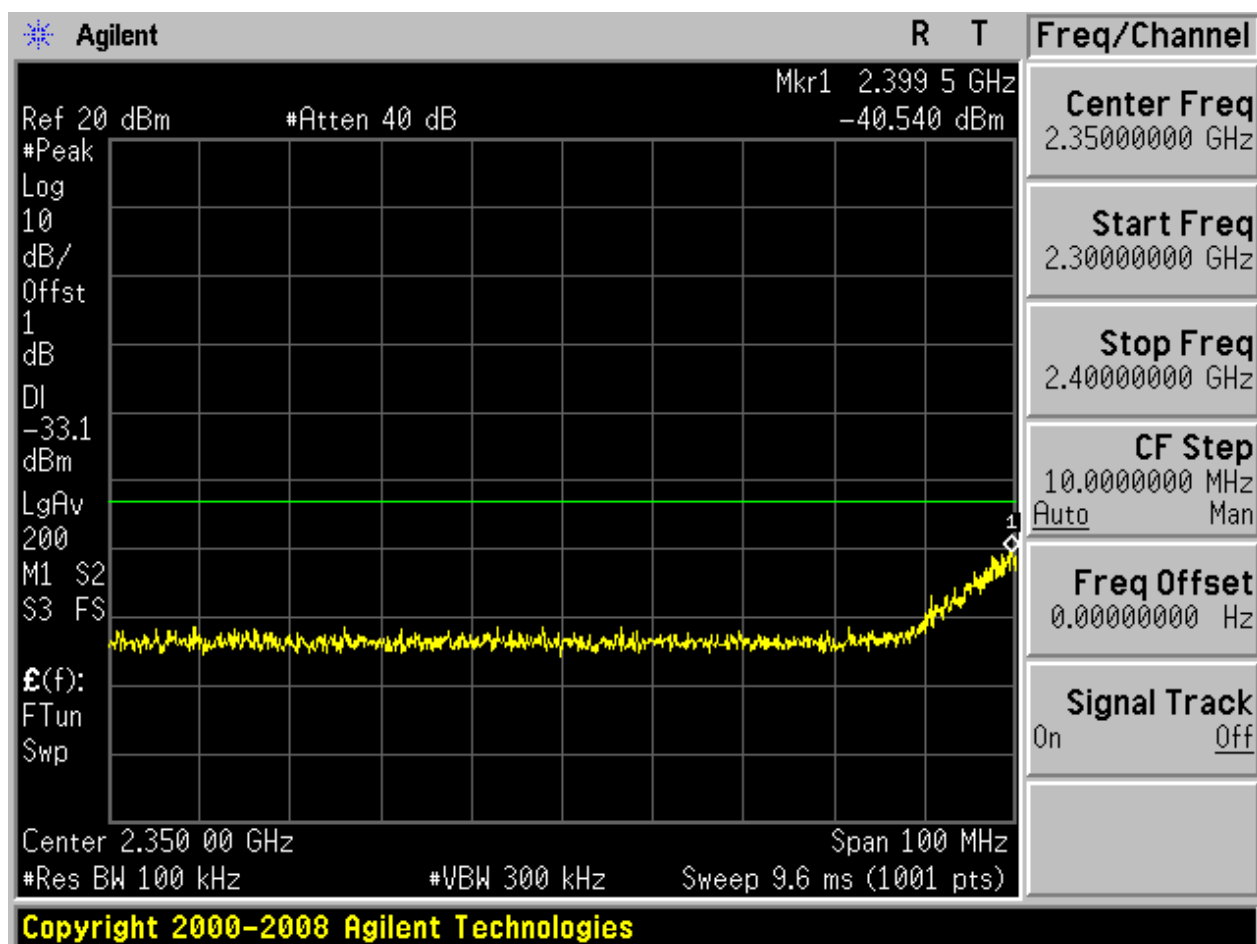


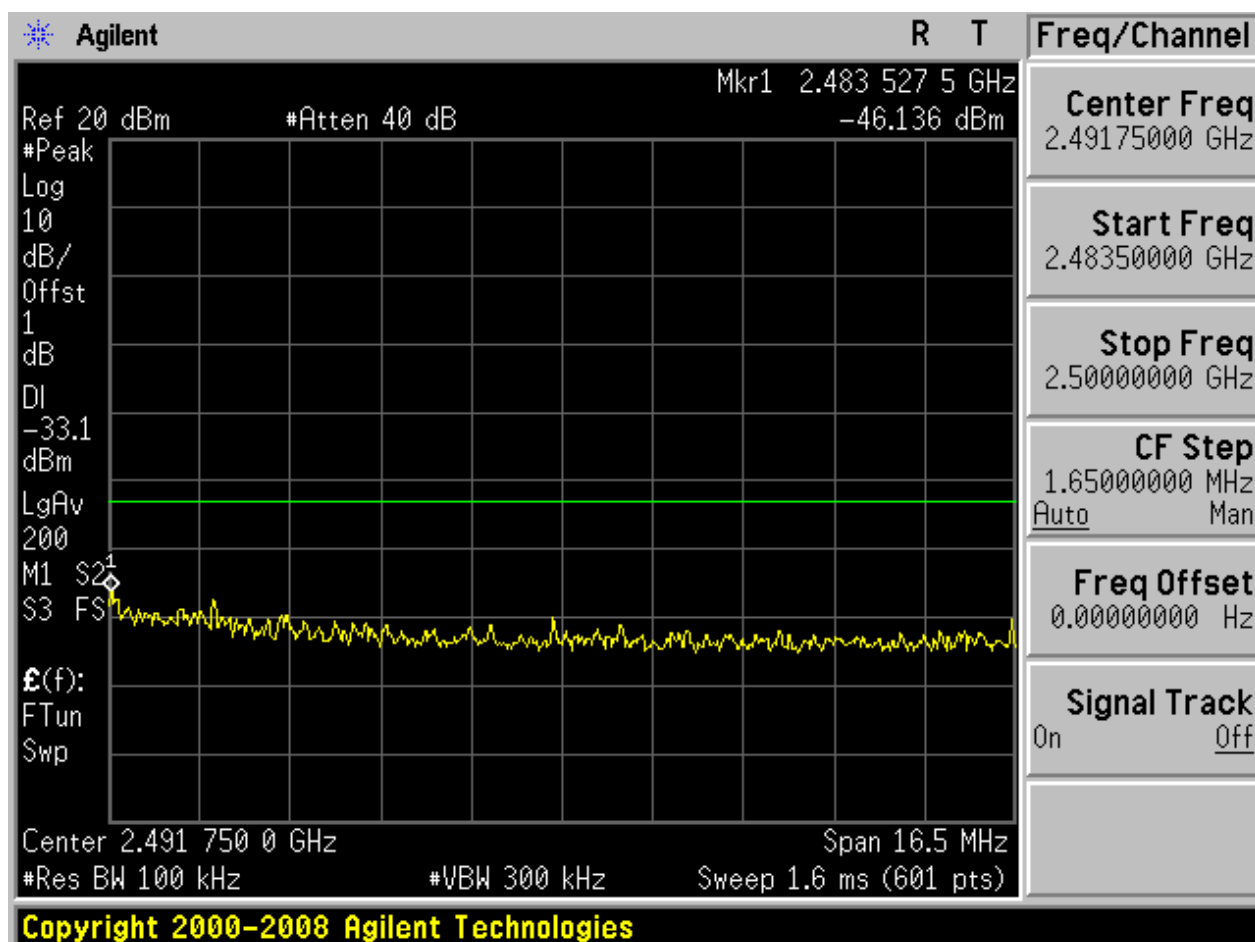
Puw:

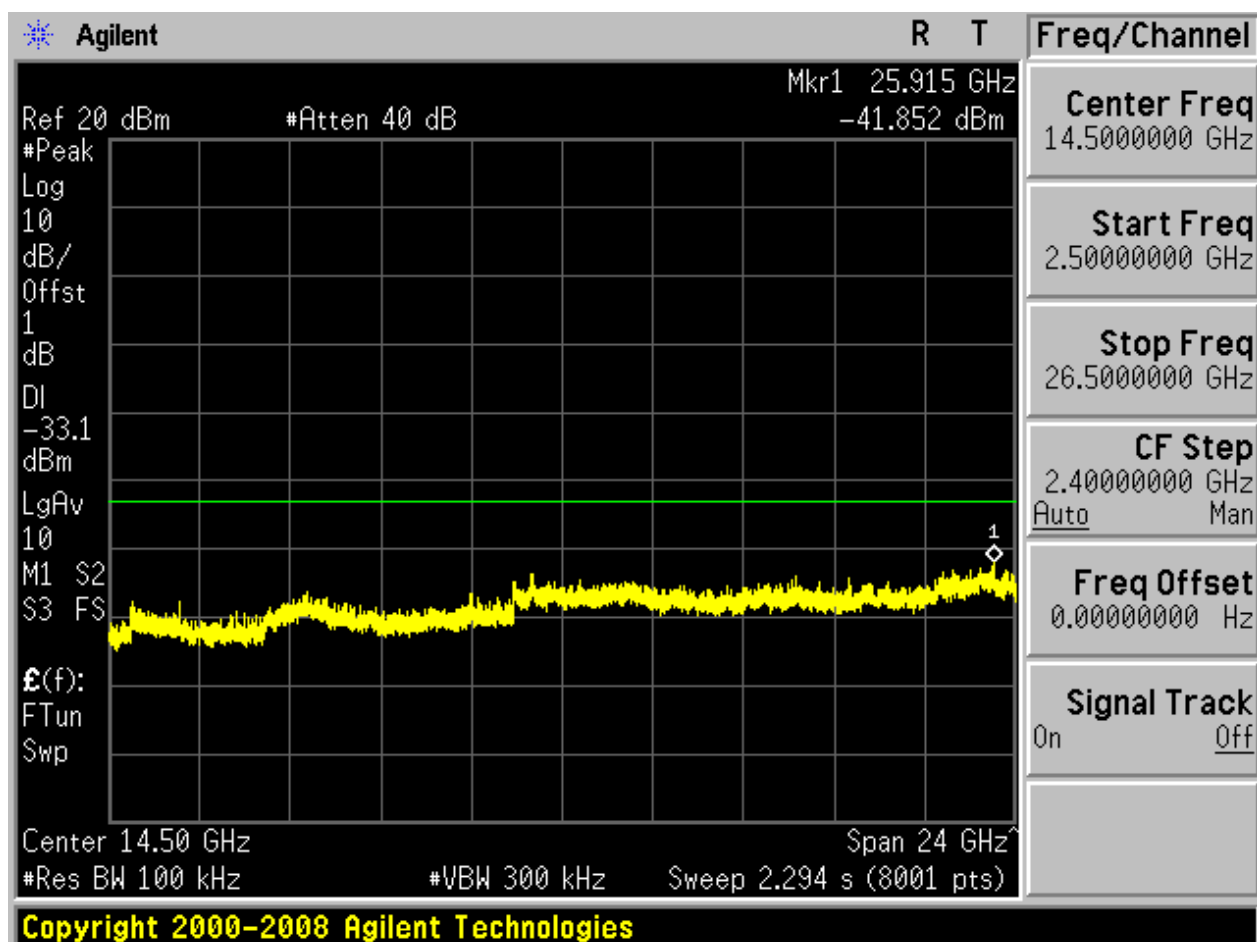








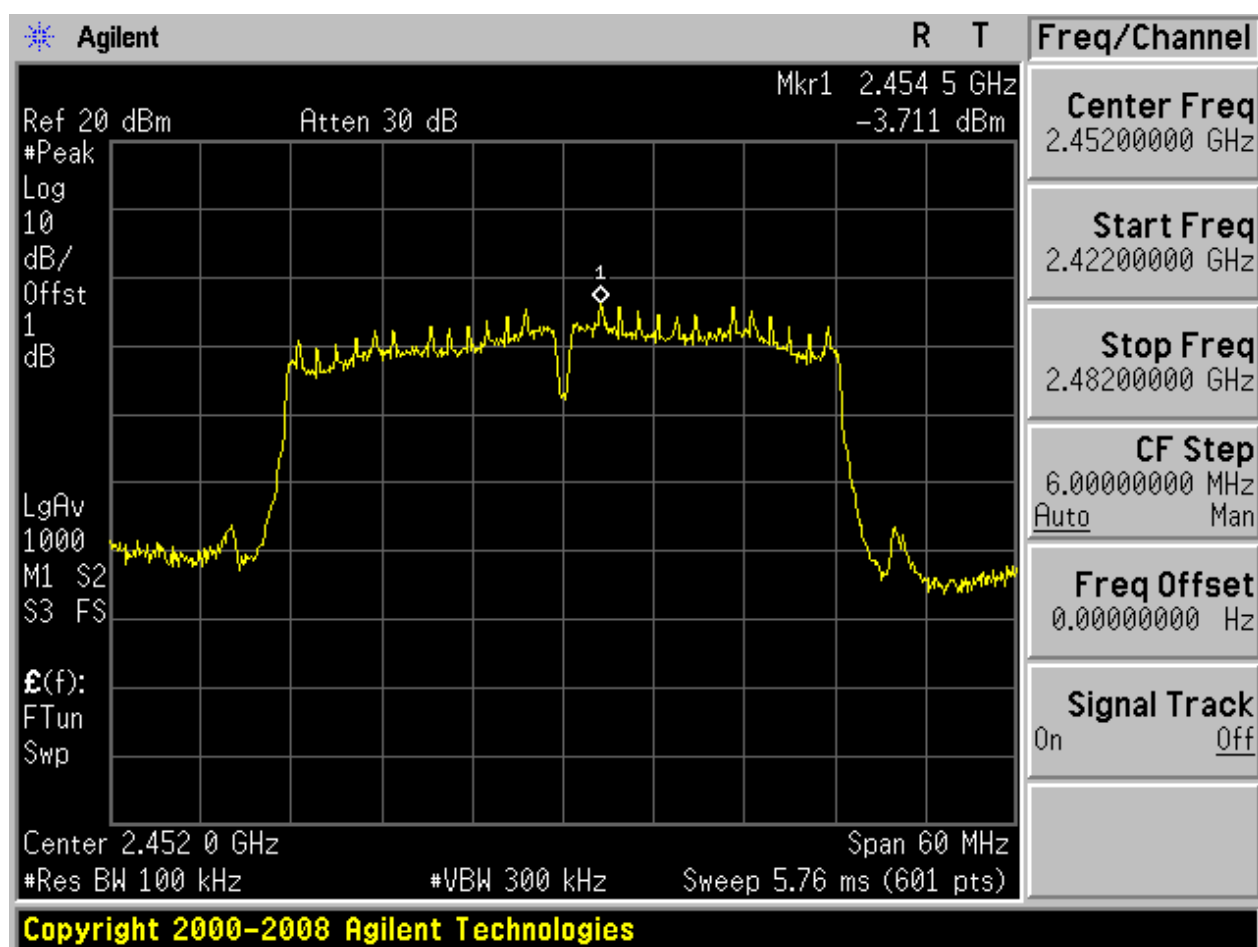






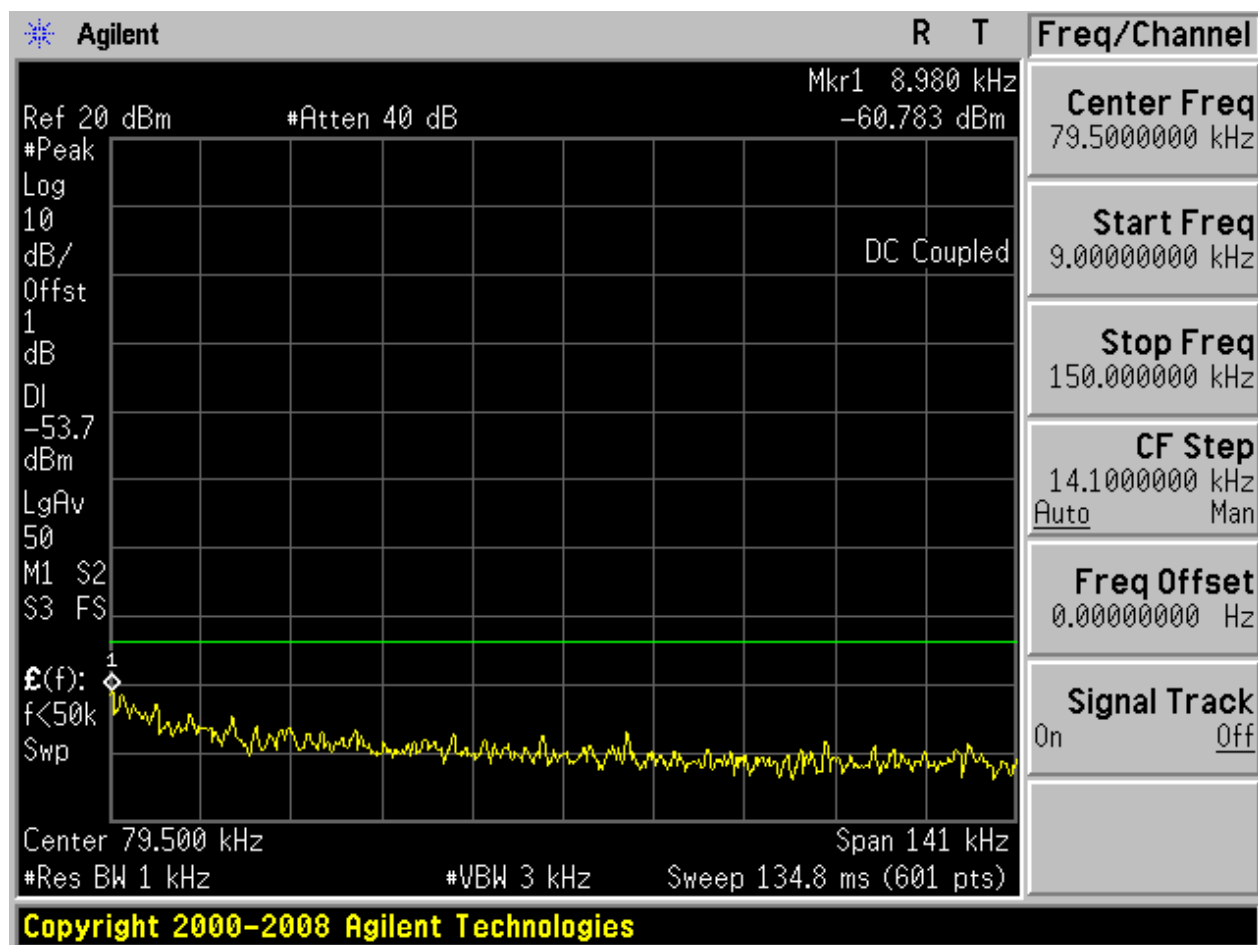
## 2.35 11N40m\_H@Ant 1

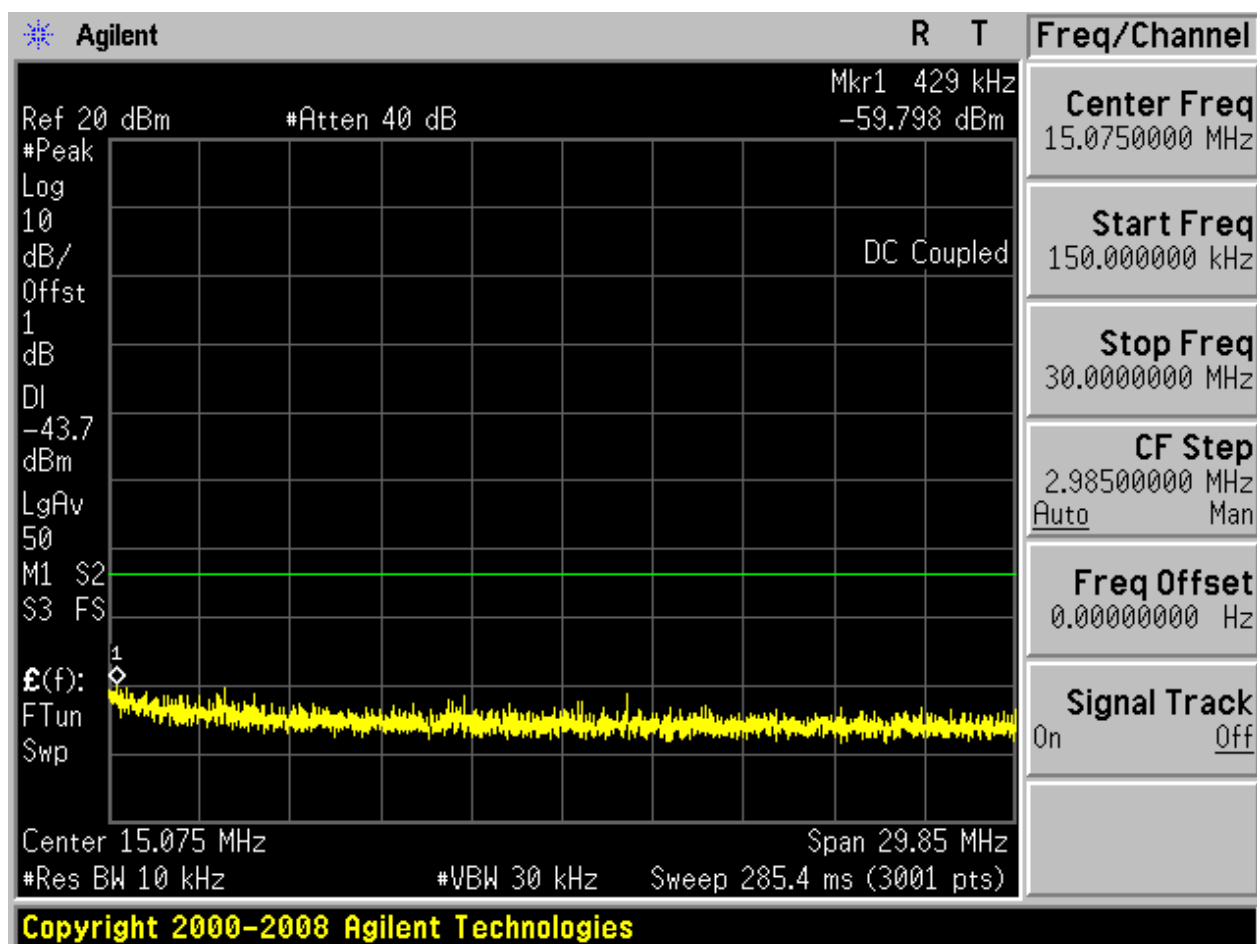
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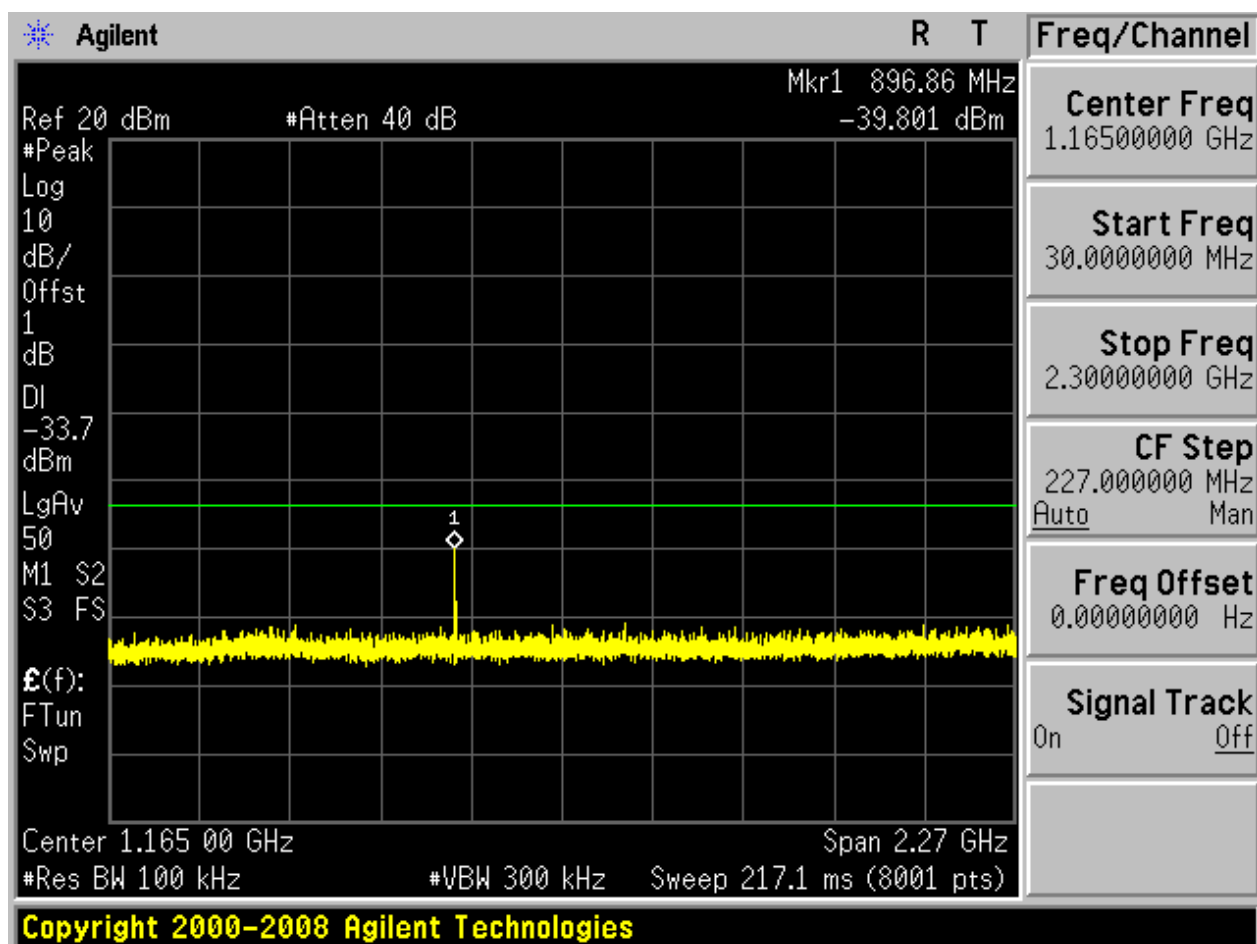


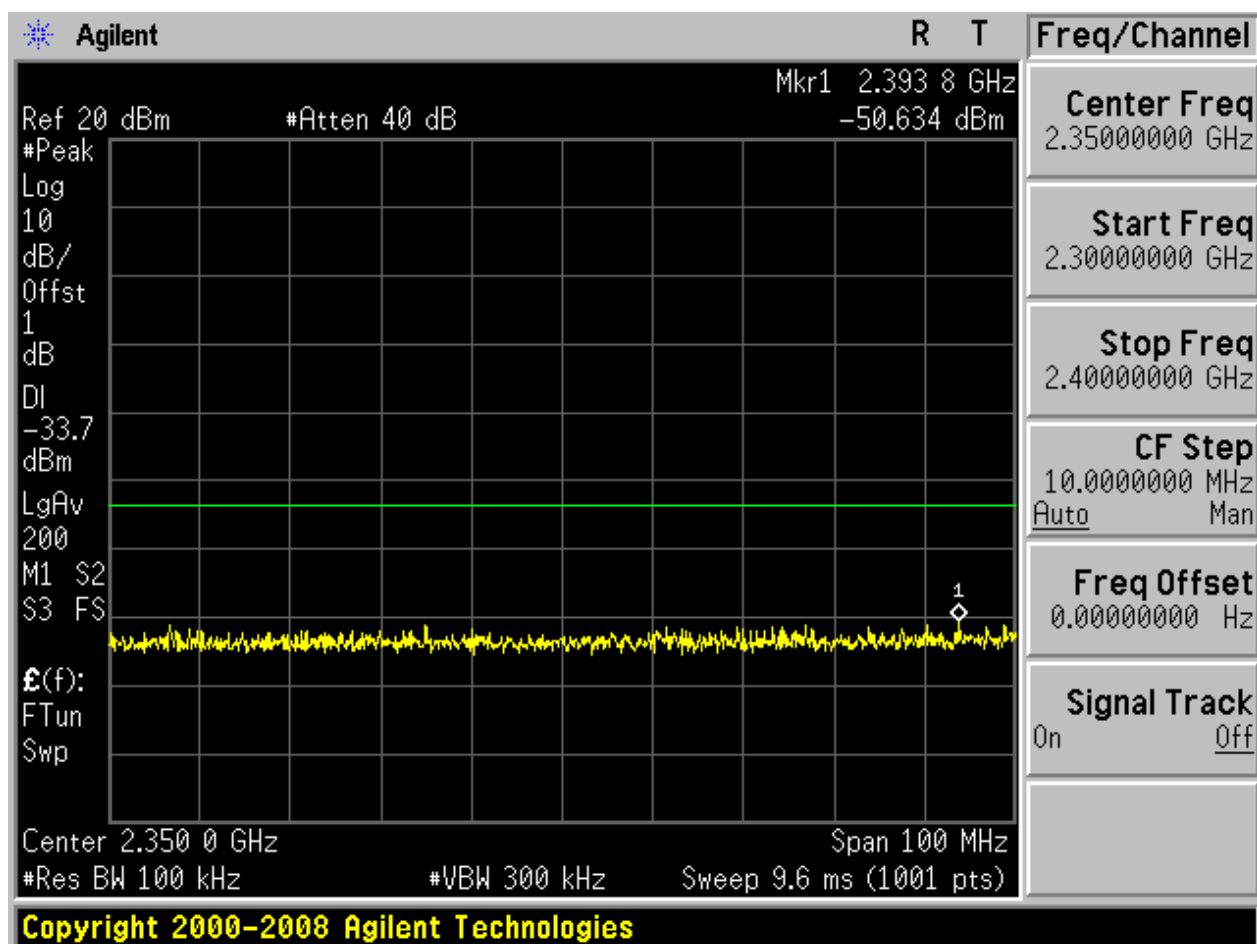


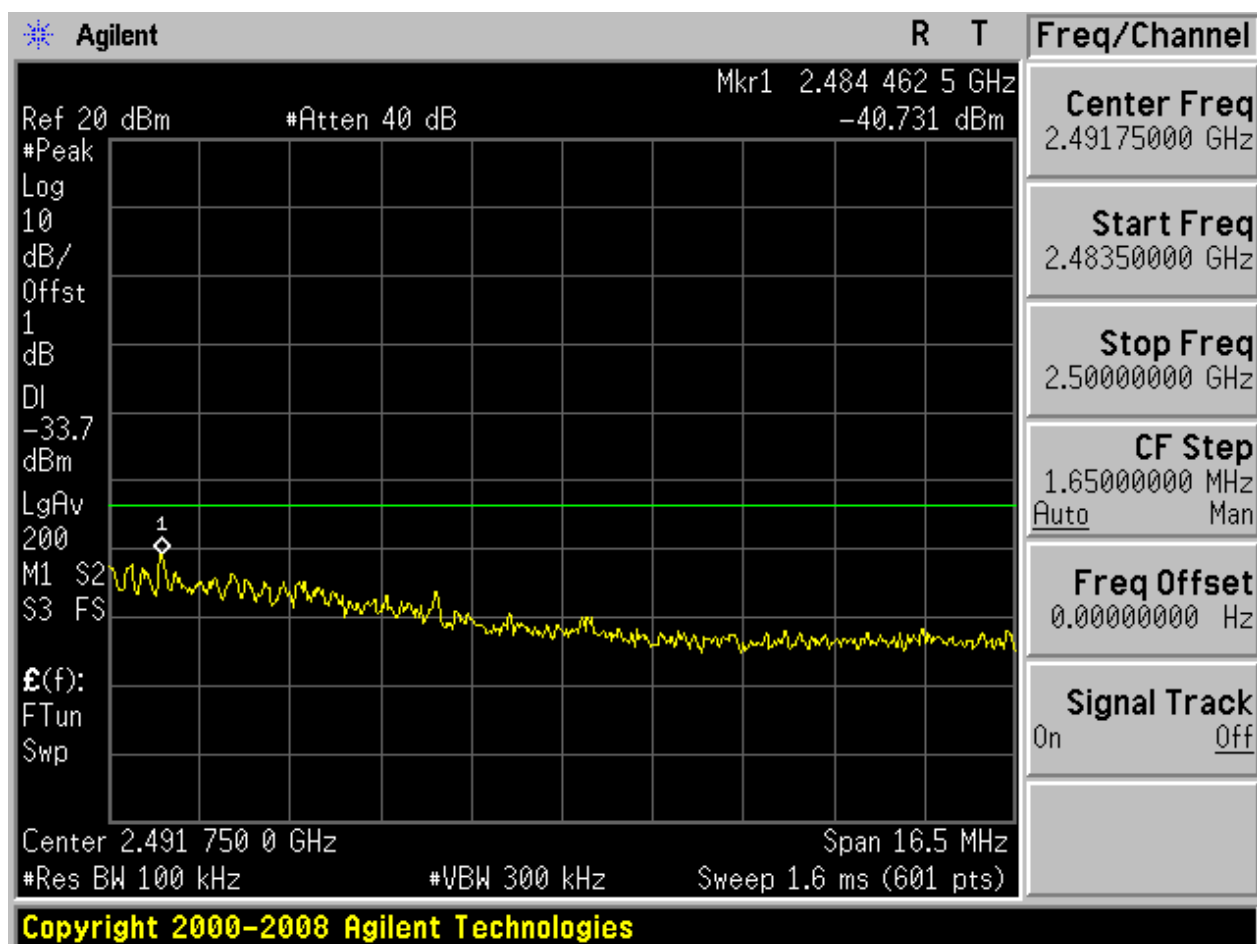
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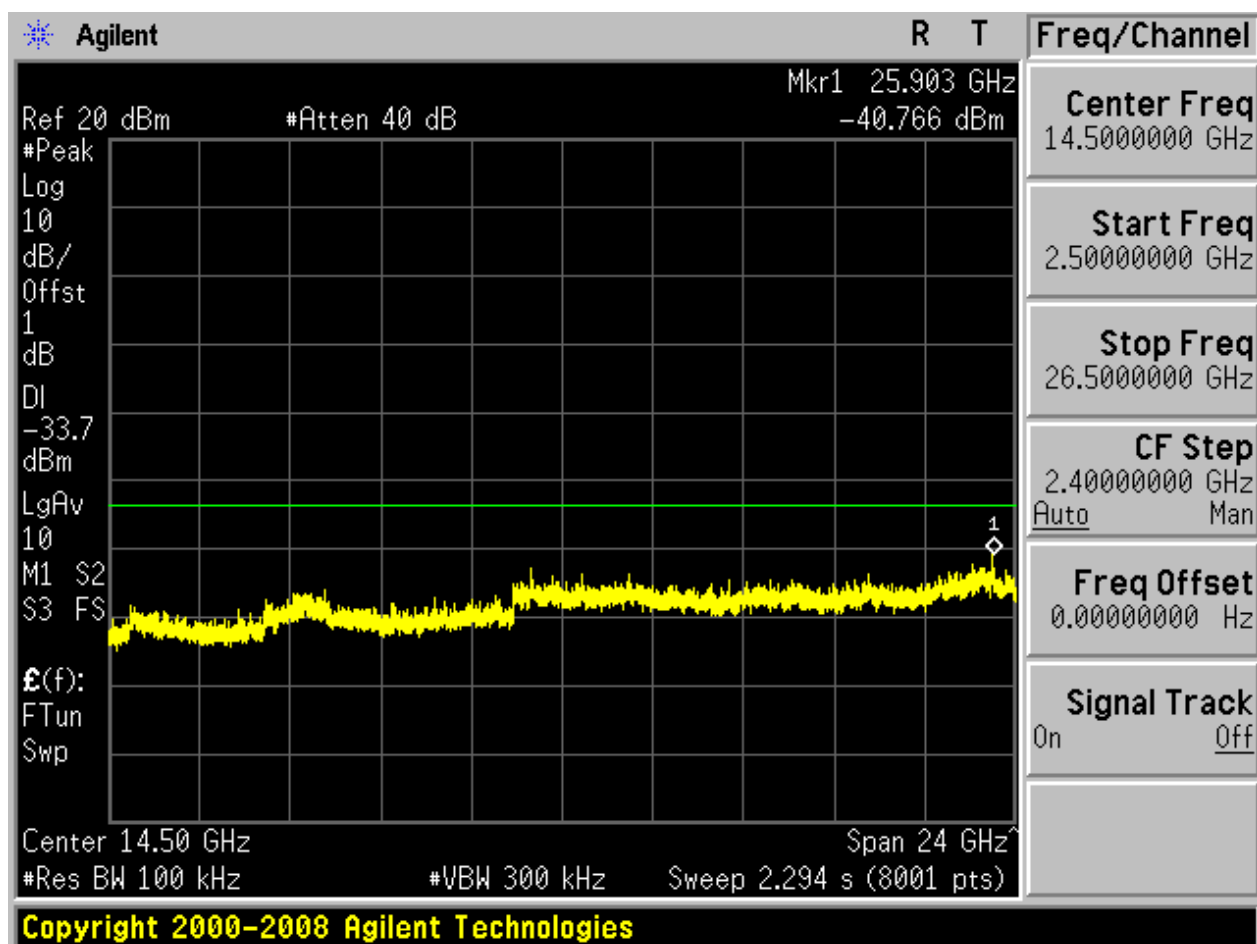






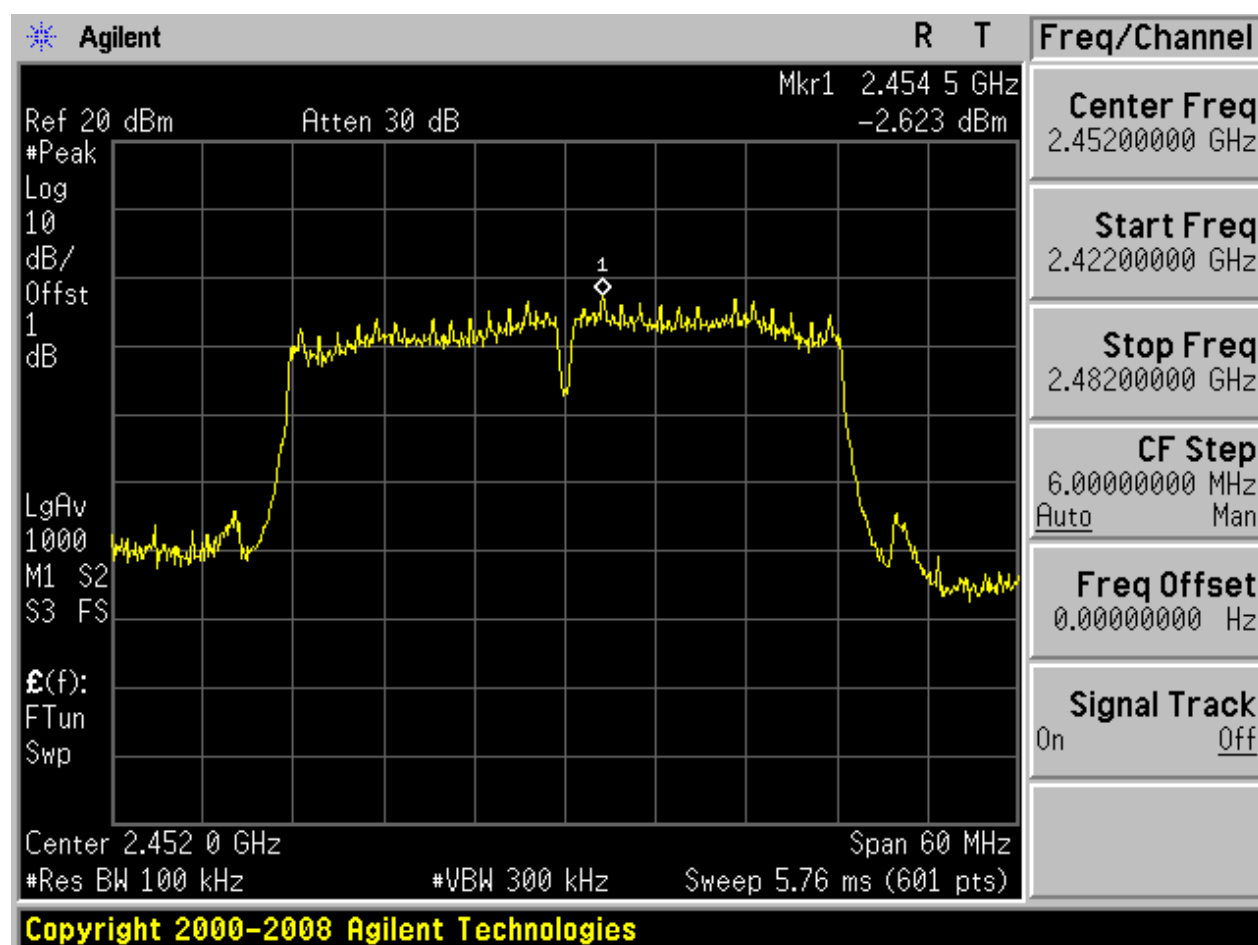






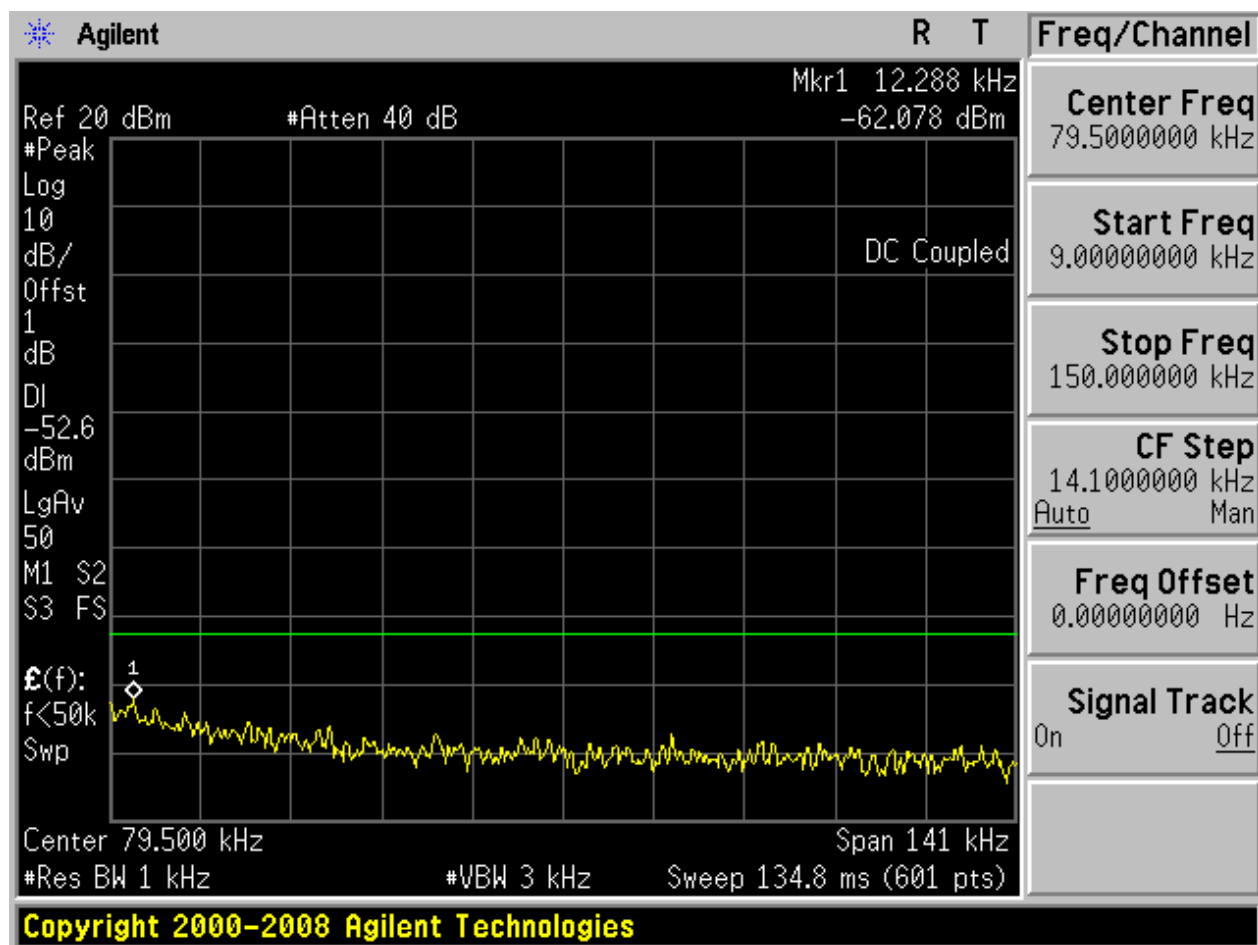
## 2.36 11N40m\_H@Ant 2

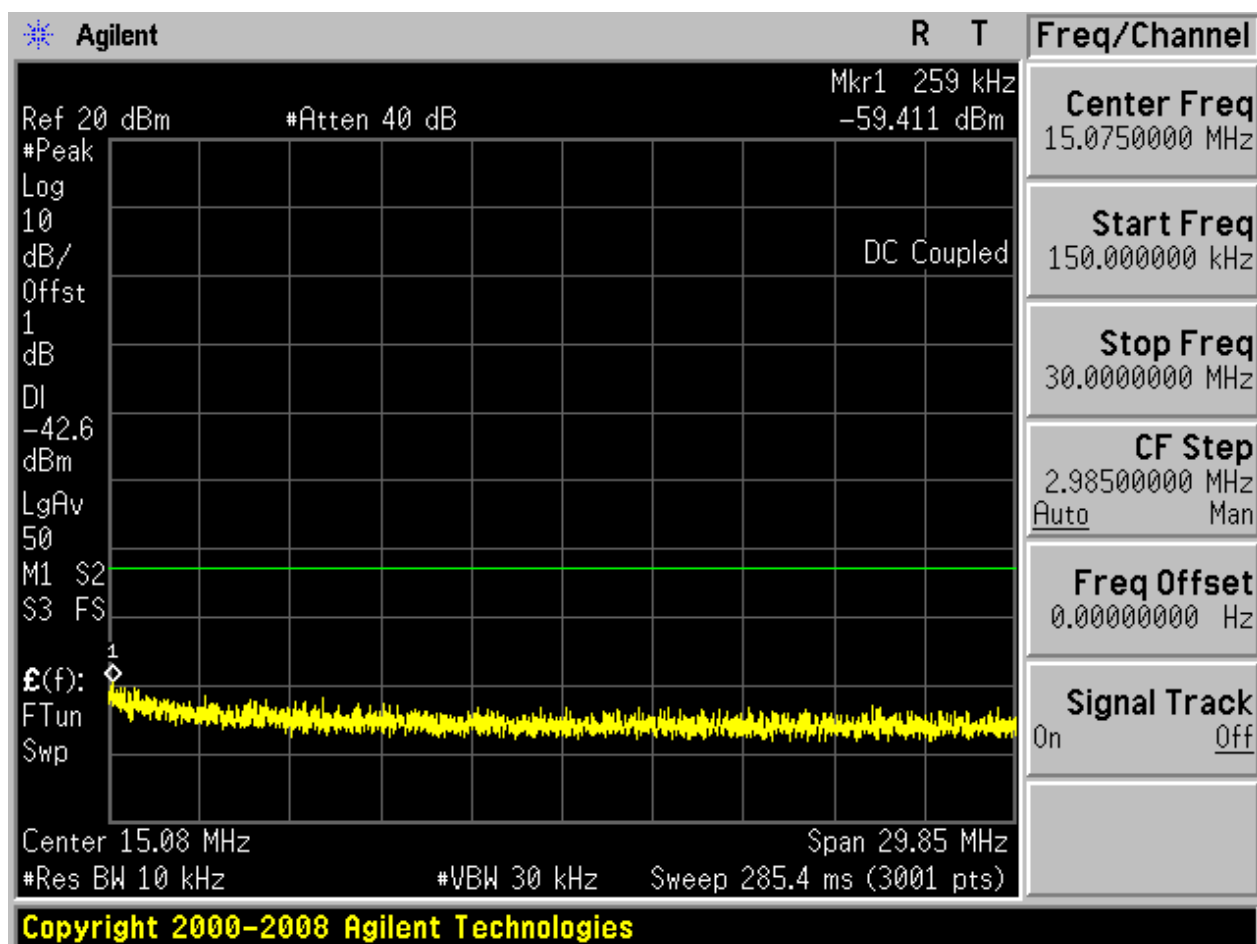
Pref:

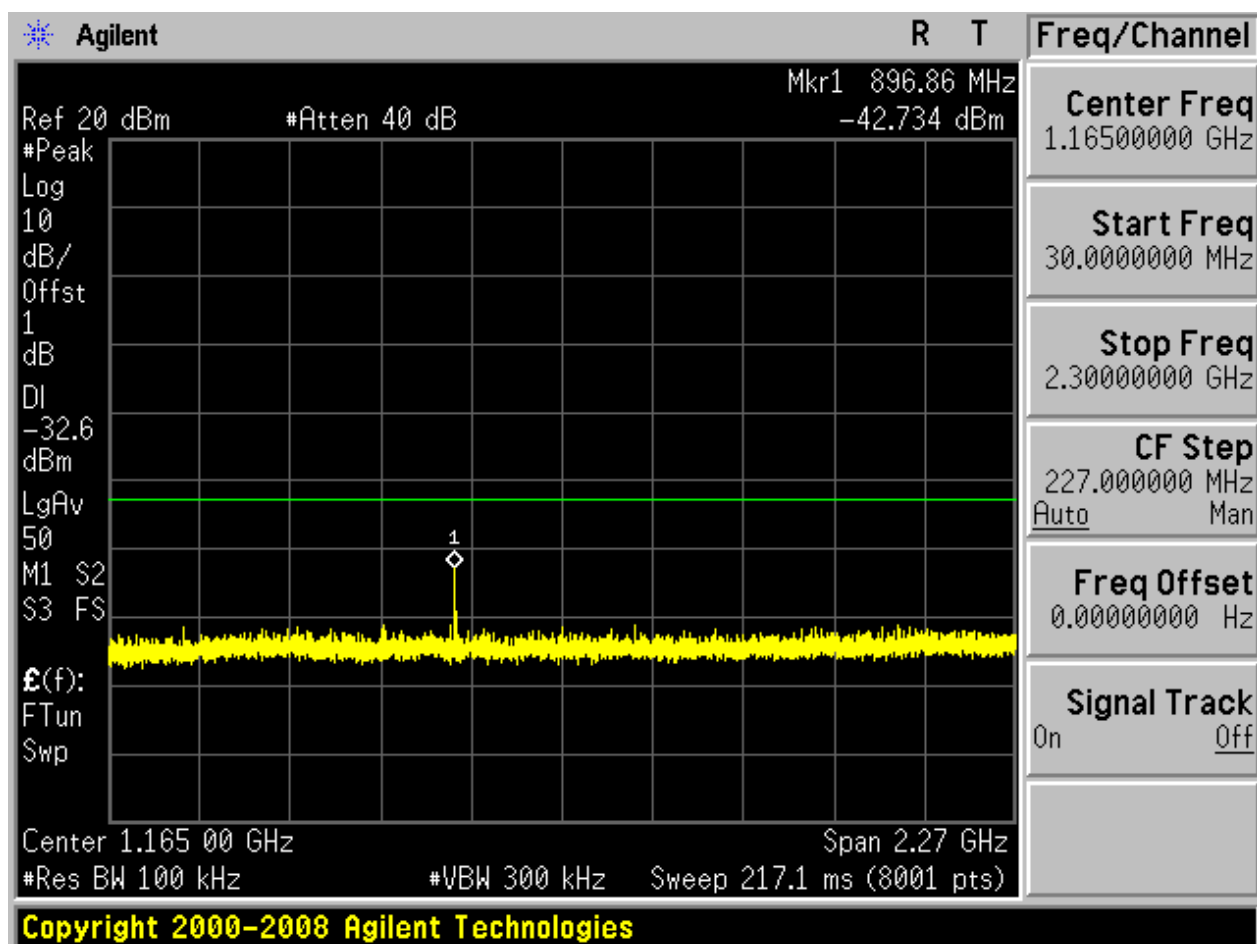


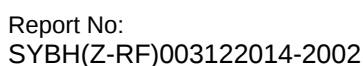
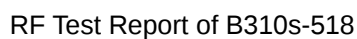


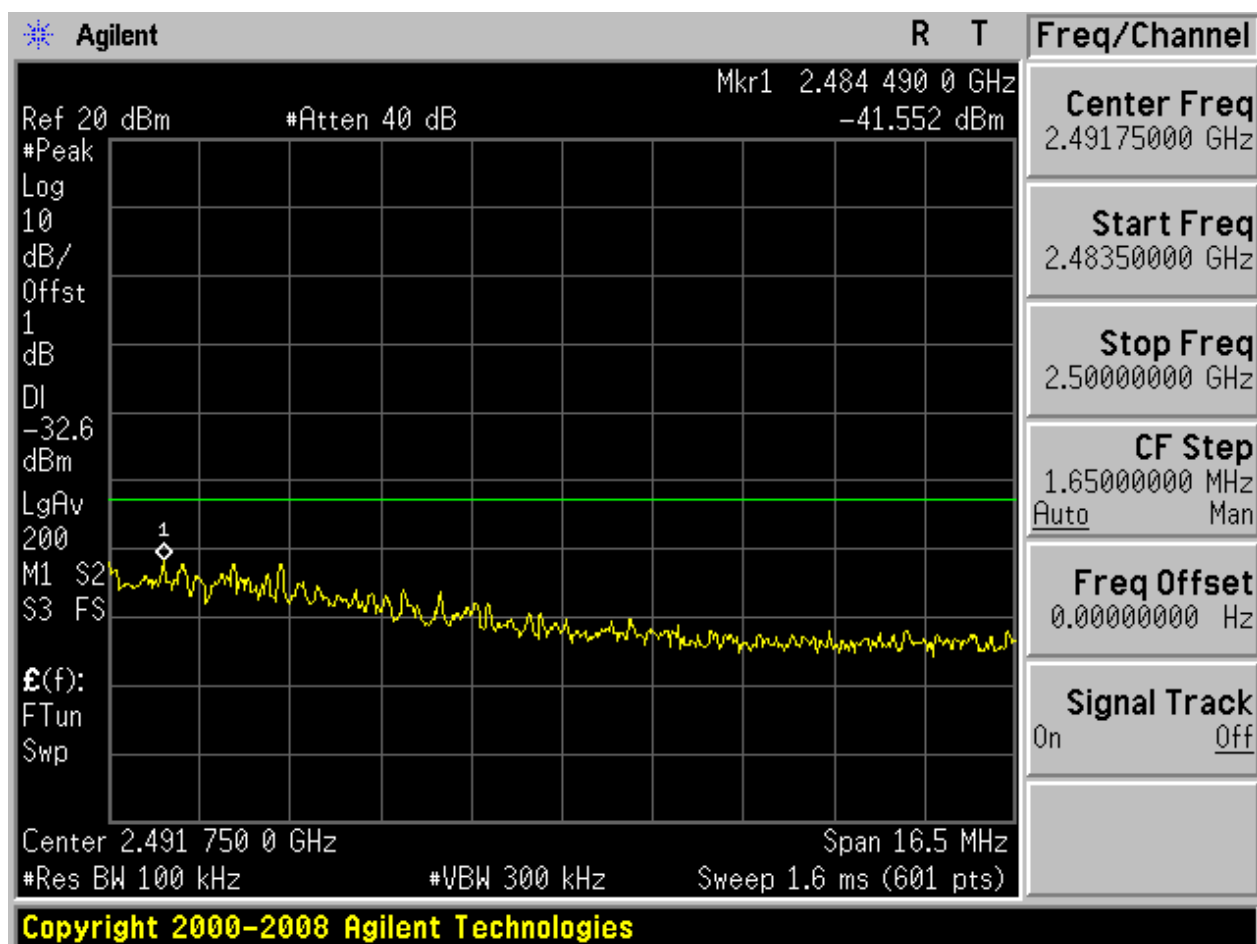
Puw:

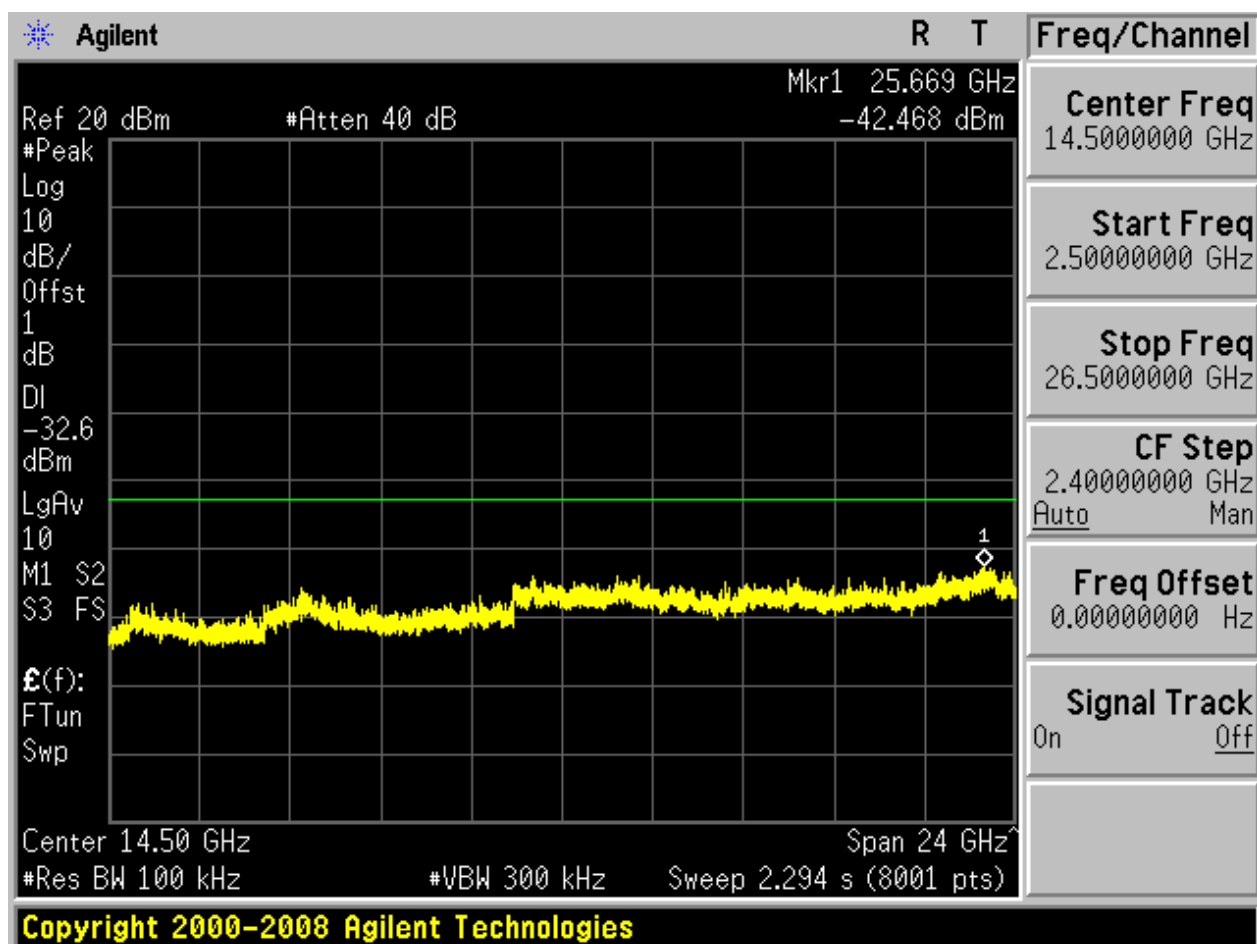












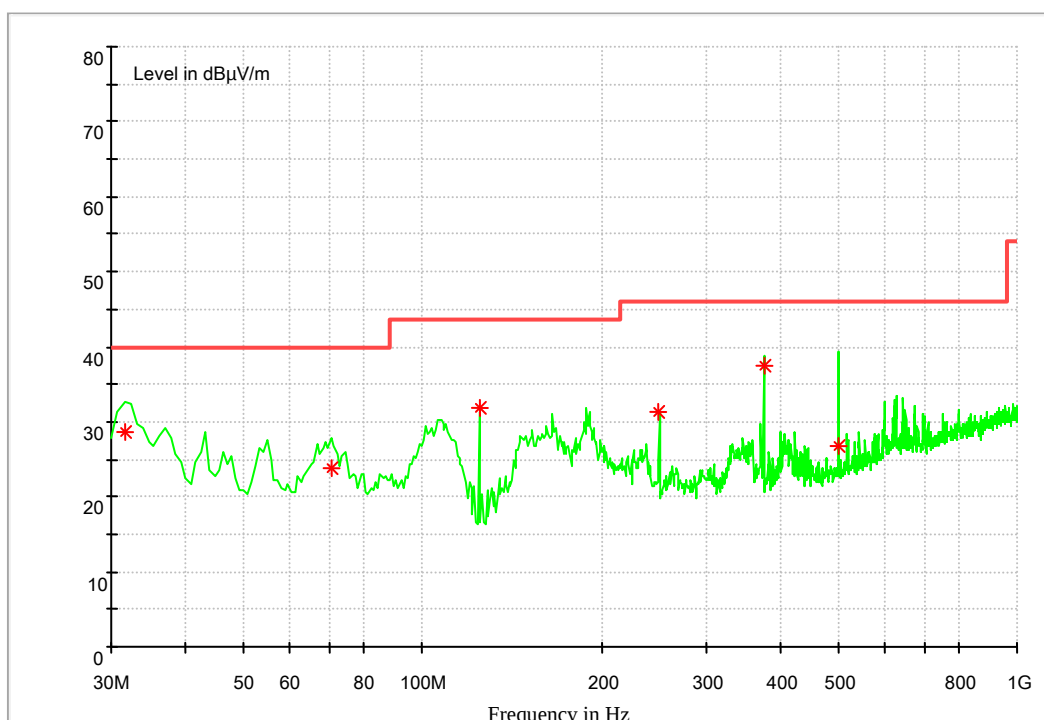
## Appendix G: Radiated Spurious Emission & Spurious in Restricted Band

Note: We tested all modes, but the data presented below is the worst case. Below 1GHz, RBW = 100 kHz, VBW = 300 kHz. Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. The simultaneous transmission has been considered

## Part 1: Testing Range of “30 MHz to 1 GHz”

Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is **the WORST case for all Test Modes and Channels**. This range will not be presented for each Test Mode and each Channel.

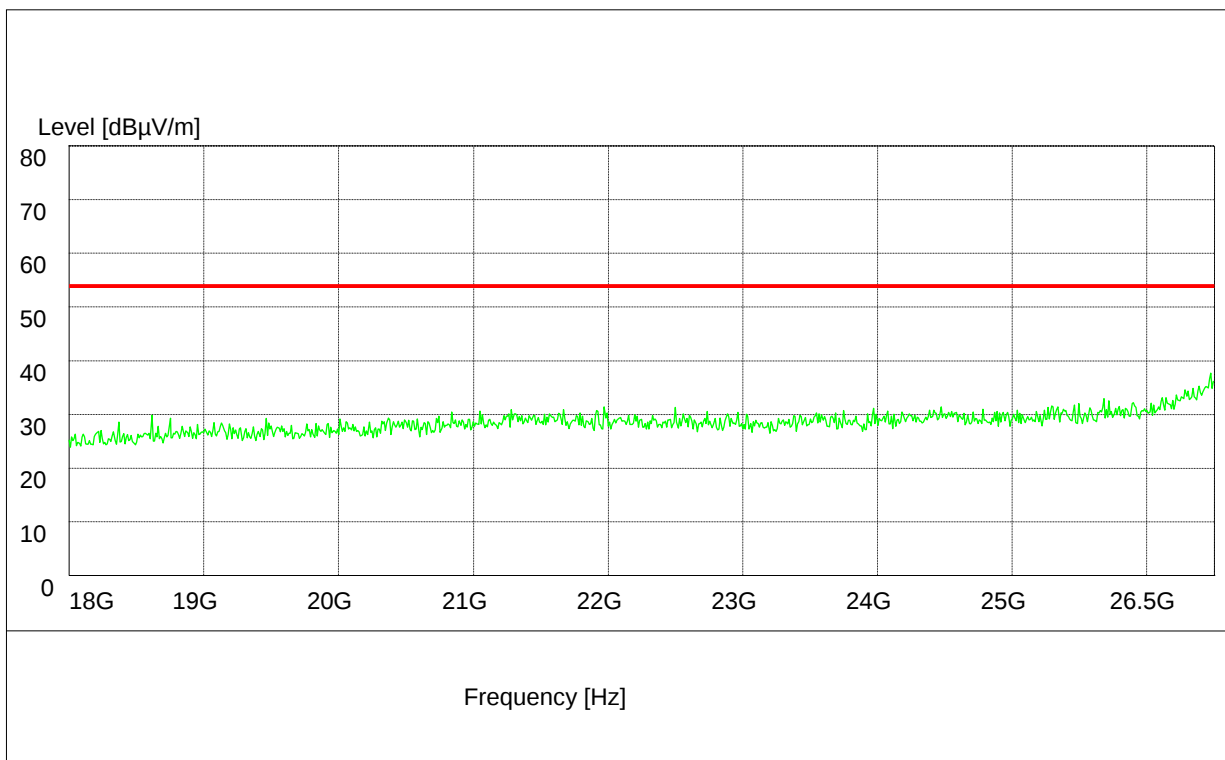
Note 2: **The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).**



| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Height cm | Azimuth deg | Plarization |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|-------------|
| 31.719040     | 28.7         | 14.1      | 40.0         | 11.3      | 100.0     | 107.0       | VERTICAL    |
| 70.567040     | 23.9         | 10.9      | 40.0         | 16.1      | 100.0     | 295.0       | HORIZONTAL  |
| 125.000320    | 31.9         | 11.4      | 43.5         | 11.6      | 100.0     | 131.0       | VERTICAL    |
| 249.988480    | 31.2         | 14.4      | 46.0         | 14.8      | 100.0     | 225.0       | HORIZONTAL  |
| 374.964800    | 37.4         | 17.4      | 46.0         | 8.6       | 100.0     | 237.0       | HORIZONTAL  |
| 500.088960    | 26.6         | 19.8      | 46.0         | 19.4      | 100.0     | 192.0       | VERTICAL    |

**Part 2: Testing Range of “18 GHz to 26.5 GHz”**

Note: No peak found in pre- test.

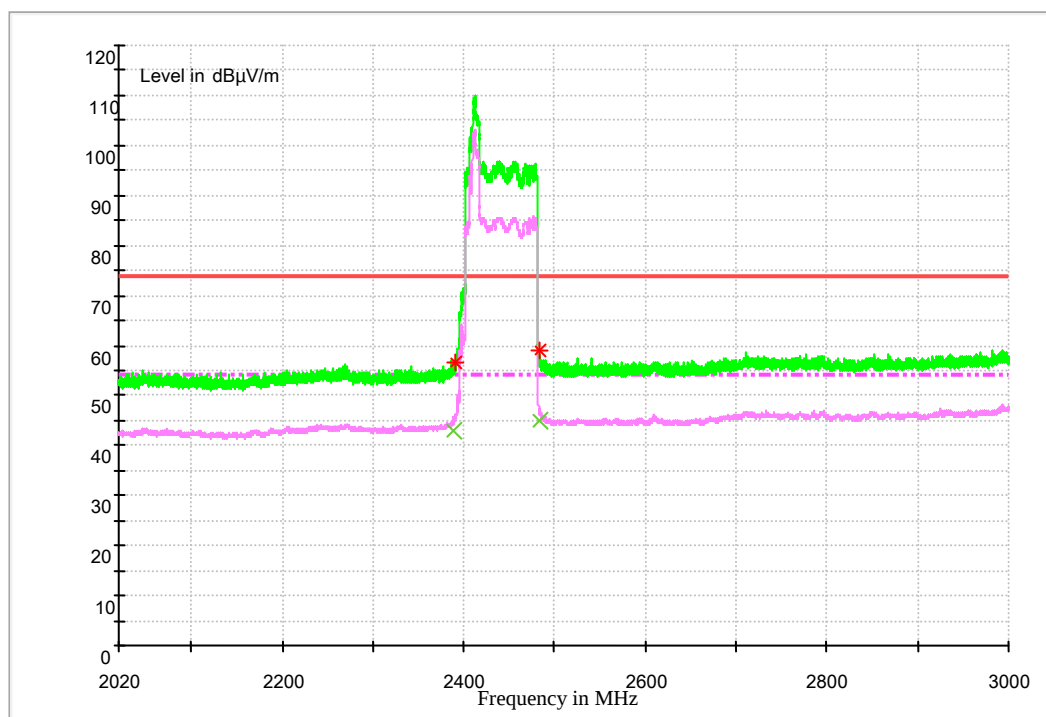


### Part 3: Testing Range of “2.3GHz to 2.5GHz”

- Note 1: The testing range of “2.3 GHz to 2.5 GHz” is for checking radiated emissions located in restricted bands near the EUT operating bands.
- Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB $\mu$ V/m) and Average Limit (54 dB $\mu$ V/m).
- Note 3: The peak spike exceeds the limit line is EUT’s operating frequency.

## Test Mode: 11B\_L@Ant 1

### Channel 1



Note: The peak exceeds the limit line is carrier frequency.

#### MEASUREMENT RESULT: PK Detector

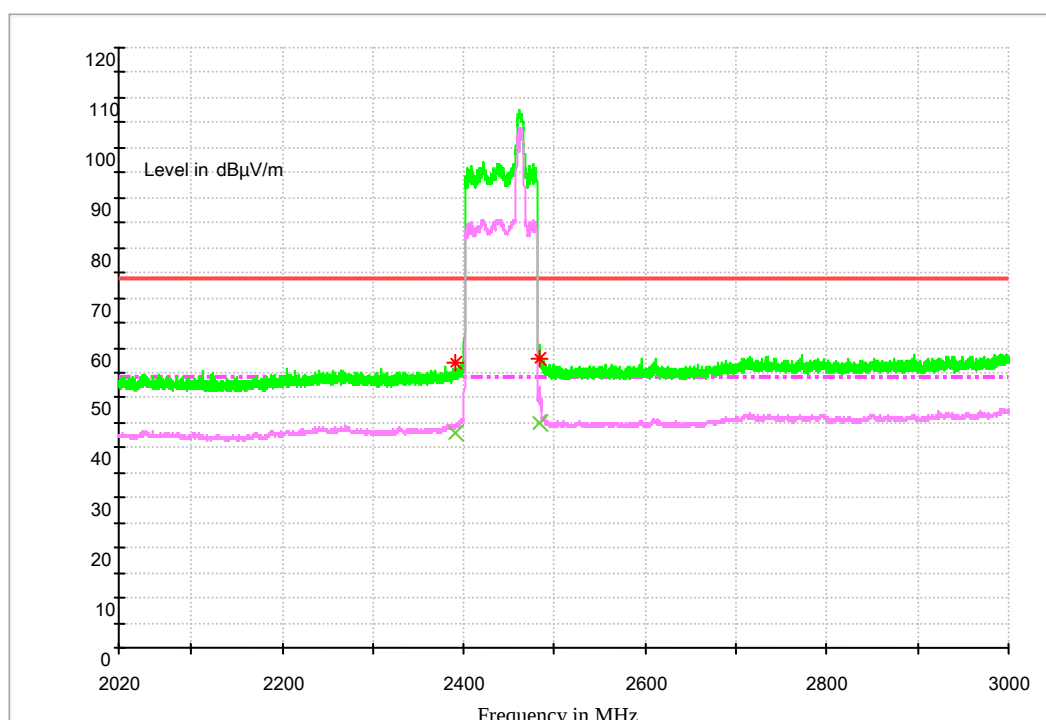
| Frequency<br>MHz | Level<br>dB $\mu$ V/m | Transd<br>dB | Limit<br>dB $\mu$ V/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------------|--------------|-----------------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 56.5                  | 38.3         | 74.0                  | 17.5         | 100.0        | 76.0           | VERTICAL     |
| 2483.500000      | 58.9                  | 41.0         | 74.0                  | 15.1         | 100.0        | 123.0          | VERTICAL     |

## MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 42.9            | 38.3         | 54.0            | 11.1         | 100.0        | 76.0           | VERTICAL     |
| 2483.500000      | 44.9            | 40.8         | 54.0            | 9.1          | 100.0        | 237.0          | VERTICAL     |

# Test Mode: 11B\_H@Ant 1

## Channel 11



Note: The peak exceeds the limit line is carrier frequency.

## MEASUREMENT RESULT: PK Detector

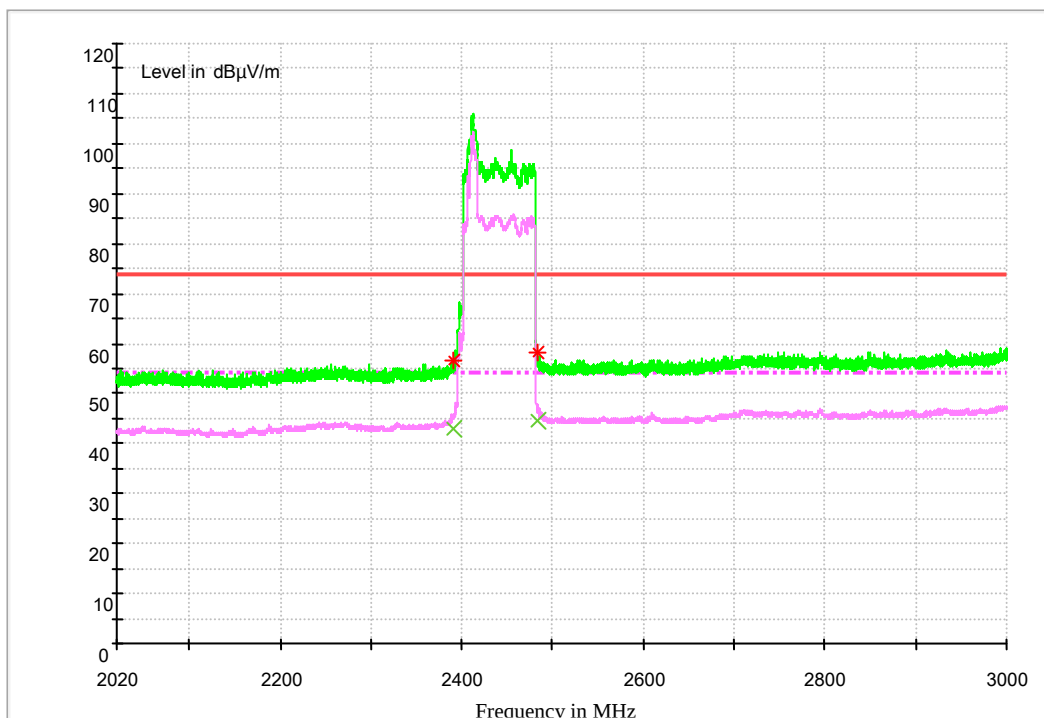
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 56.5            | 38.3         | 74.0            | 17.5         | 100.0        | 76.0           | VERTICAL     |
| 2483.500000      | 58.9            | 41.0         | 74.0            | 15.1         | 100.0        | 123.0          | VERTICAL     |

## MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 42.9            | 38.3         | 54.0            | 11.1         | 100.0        | 76.0           | HORIZONTAL   |
| 2483.500000      | 44.9            | 40.8         | 54.0            | 9.1          | 100.0        | 123.0          | VERTICAL     |

# Test Mode: 11B\_L@Ant 2

## Channel 1



Note: The peak exceeds the limit line is carrier frequency.

### MEASUREMENT RESULT: PK Detector

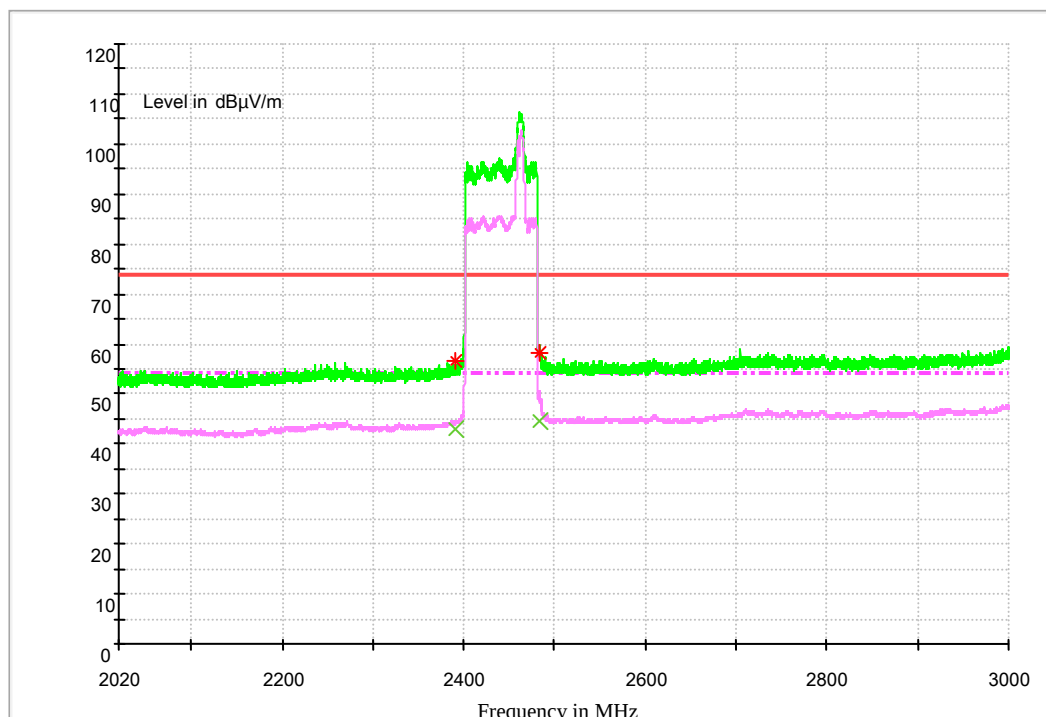
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 56.6            | 38.3         | 74.0            | 17.4         | 100.0        | 124.0          | HORIZONTAL   |
| 2483.500000      | 58.2            | 40.4         | 74.0            | 15.8         | 100.0        | 285.0          | VERTICAL     |

### MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 42.9            | 38.3         | 54.0            | 11.1         | 100.0        | 35.0           | VERTICAL     |
| 2483.500000      | 44.5            | 40.5         | 54.0            | 9.5          | 100.0        | 330.0          | VERTICAL     |

# Test Mode: 11B\_H@Ant 2

## Channel 11



Note: The peak exceeds the limit line is carrier frequency.

### MEASUREMENT RESULT: PK Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 56.7            | 38.3         | 74.0            | 17.3         | 100.0        | 32.0           | VERTICAL     |
| 2483.500000      | 58.1            | 40.5         | 74.0            | 15.9         | 100.0        | 0.0            | VERTICAL     |

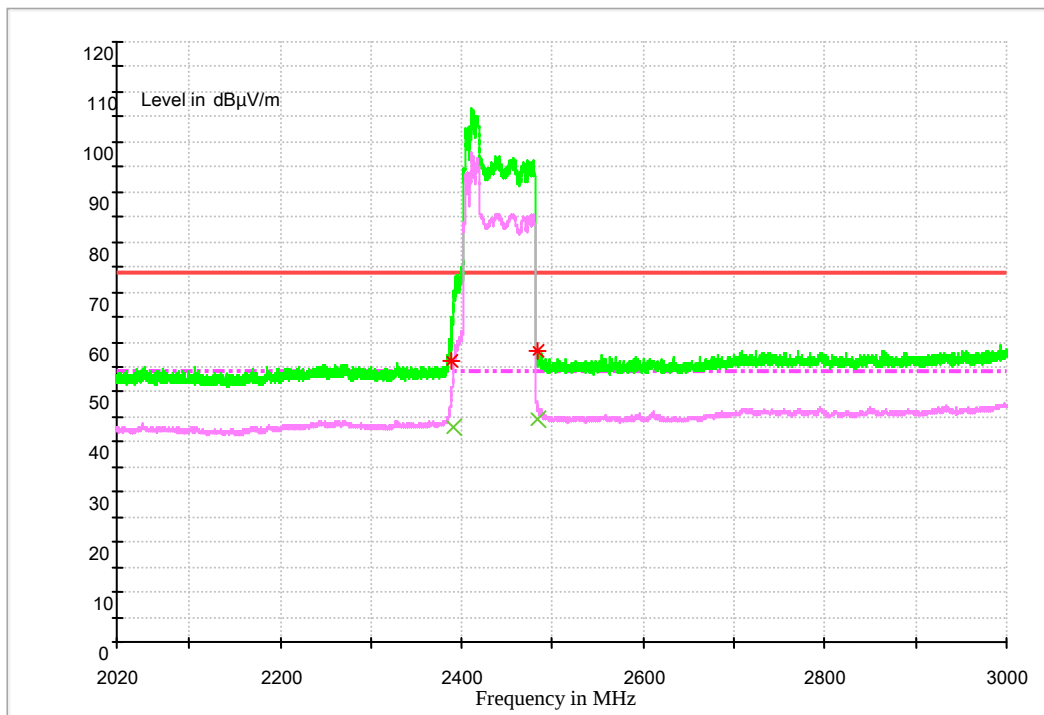
### MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 43.1            | 38.3         | 54.0            | 10.9         | 100.0        | 0.0            | VERTICAL     |
| 2483.500000      | 44.5            | 40.4         | 54.0            | 9.5          | 100.0        | 0.0            | VERTICAL     |

# Test Mode: 11G\_L@Ant 1

## Channel 1

FCC CLASS B WIFI 1GHz-3GHz



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 56.1            | 38.3         | 74.0            | 17.9         | 100.0        | 83.0           | VERTICAL     |
| 2483.500000      | 58.2            | 40.1         | 74.0            | 15.8         | 100.0        | 102.0          | HORIZONTAL   |

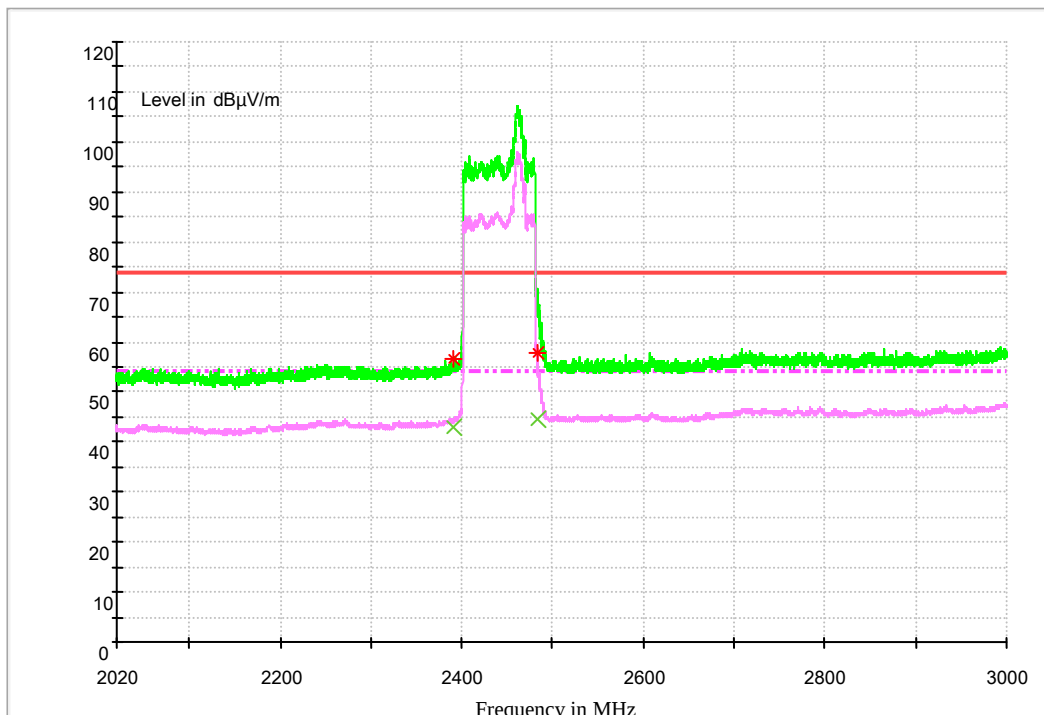
MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 42.9            | 38.3         | 54.0            | 11.1         | 100.0        | 68.0           | VERTICAL     |
| 2483.500000      | 44.7            | 40.7         | 54.0            | 9.3          | 100.0        | 120.0          | VERTICAL     |

# Test Mode: 11G\_H@Ant 1

## Channel 11

FCC CLASS B WIFI 1GHz-3GHz



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

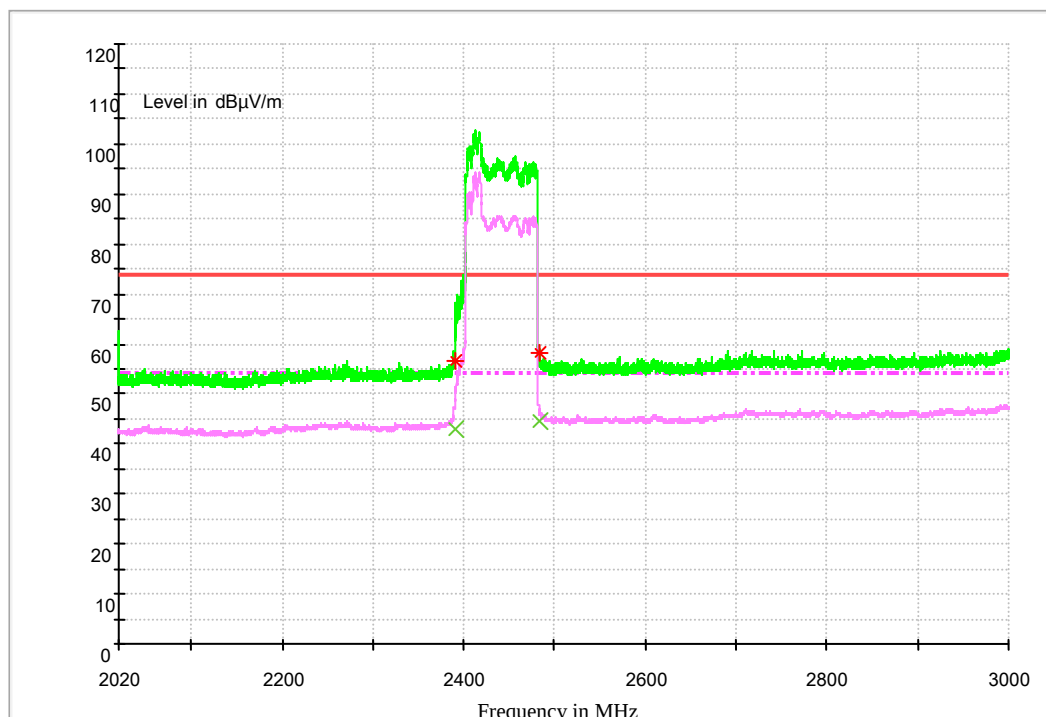
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 56.5            | 38.3         | 74.0            | 17.5         | 100.0        | 177.0          | VERTICAL     |
| 2483.500000      | 57.9            | 40.5         | 74.0            | 16.1         | 100.0        | 107.0          | VERTICAL     |

MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 42.9            | 38.3         | 54.0            | 11.1         | 100.0        | 222.0          | VERTICAL     |
| 2483.500000      | 44.6            | 40.5         | 54.0            | 9.4          | 100.0        | 107.0          | VERTICAL     |

# Test Mode: 11G\_L@Ant 2

## Channel 1



Note: The peak exceeds the limit line is carrier frequency.

### MEASUREMENT RESULT: PK Detector

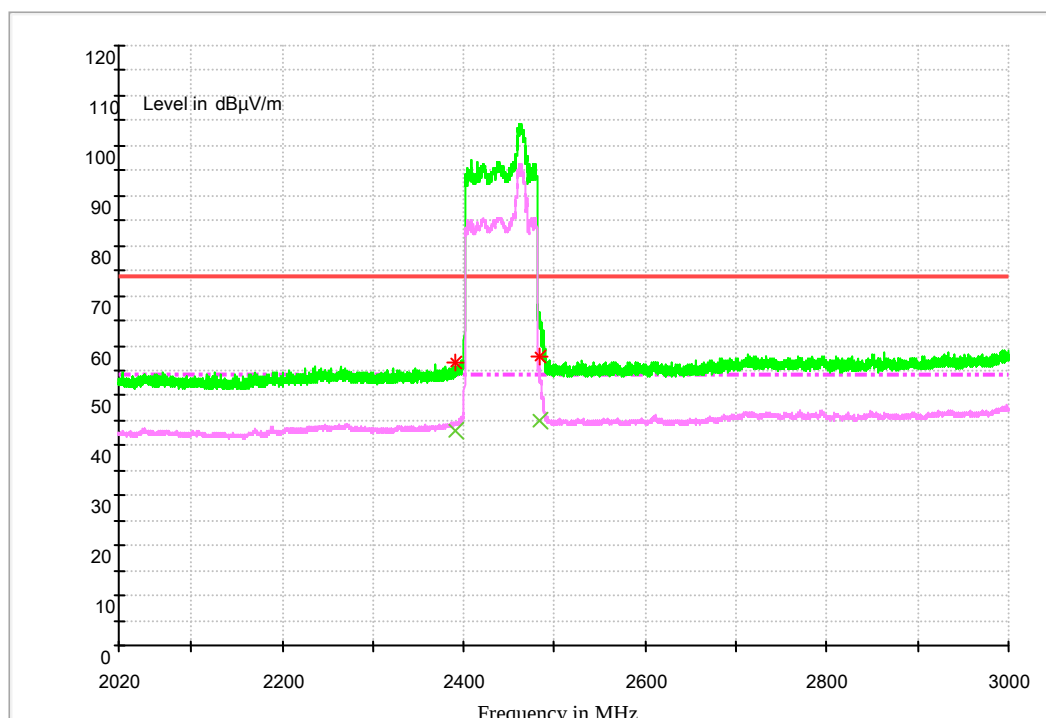
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 56.7            | 38.3         | 74.0            | 17.3         | 100.0        | 327.0          | VERTICAL     |
| 2483.500000      | 58.3            | 40.2         | 74.0            | 15.8         | 100.0        | 311.0          | VERTICAL     |

### MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 42.9            | 38.3         | 54.0            | 11.1         | 100.0        | 327.0          | VERTICAL     |
| 2483.500000      | 44.4            | 40.2         | 54.0            | 9.6          | 100.0        | 356.0          | VERTICAL     |

# Test Mode: 11G\_H@Ant 2

## Channel 11



Note: The peak exceeds the limit line is carrier frequency.

### MEASUREMENT RESULT: PK Detector

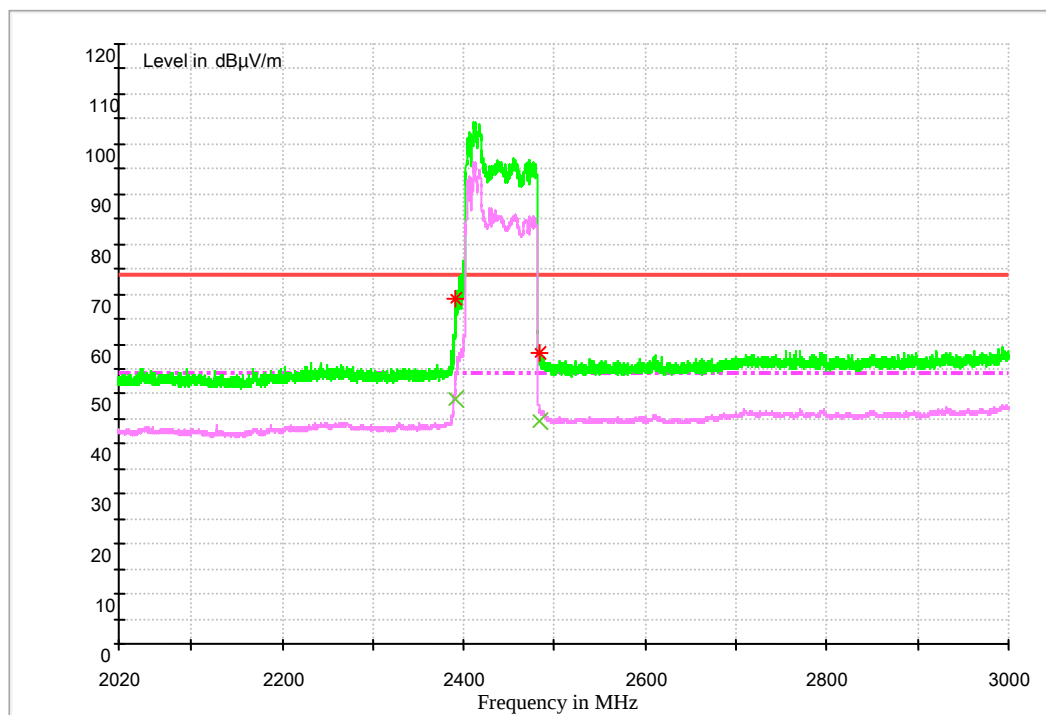
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 56.6            | 38.3         | 74.0            | 17.4         | 100.0        | 233.0          | VERTICAL     |
| 2483.500000      | 58.0            | 40.3         | 74.0            | 16.0         | 100.0        | 270.0          | VERTICAL     |

### MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 42.9            | 38.3         | 54.0            | 11.1         | 100.0        | 269.0          | VERTICAL     |
| 2483.500000      | 44.8            | 40.7         | 54.0            | 9.2          | 100.0        | 315.0          | VERTICAL     |

# Test Mode: 11N20m\_L

## Channel 1



Note: The peak exceeds the limit line is carrier frequency.

### MEASUREMENT RESULT: PK Detector

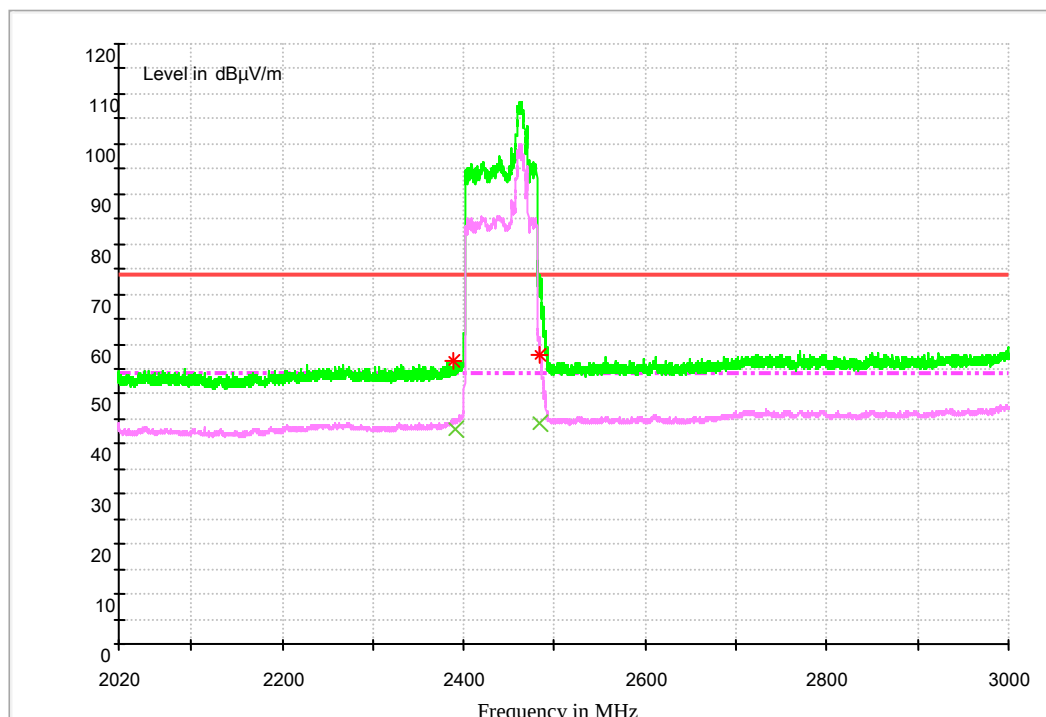
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 69.1            | 38.3         | 74.0            | 4.9          | 100.0        | 71.0           | VERTICAL     |
| 2483.500000      | 58.0            | 40.5         | 74.0            | 16.0         | 100.0        | 125.0          | VERTICAL     |

### MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 48.8            | 38.3         | 54.0            | 5.2          | 100.0        | 92.0           | VERTICAL     |
| 2483.500000      | 44.5            | 40.4         | 54.0            | 9.5          | 100.0        | 161.0          | VERTICAL     |

# Test Mode: 11N20m\_H

## Channel 11



Note: The peak exceeds the limit line is carrier frequency.

### MEASUREMENT RESULT: PK Detector

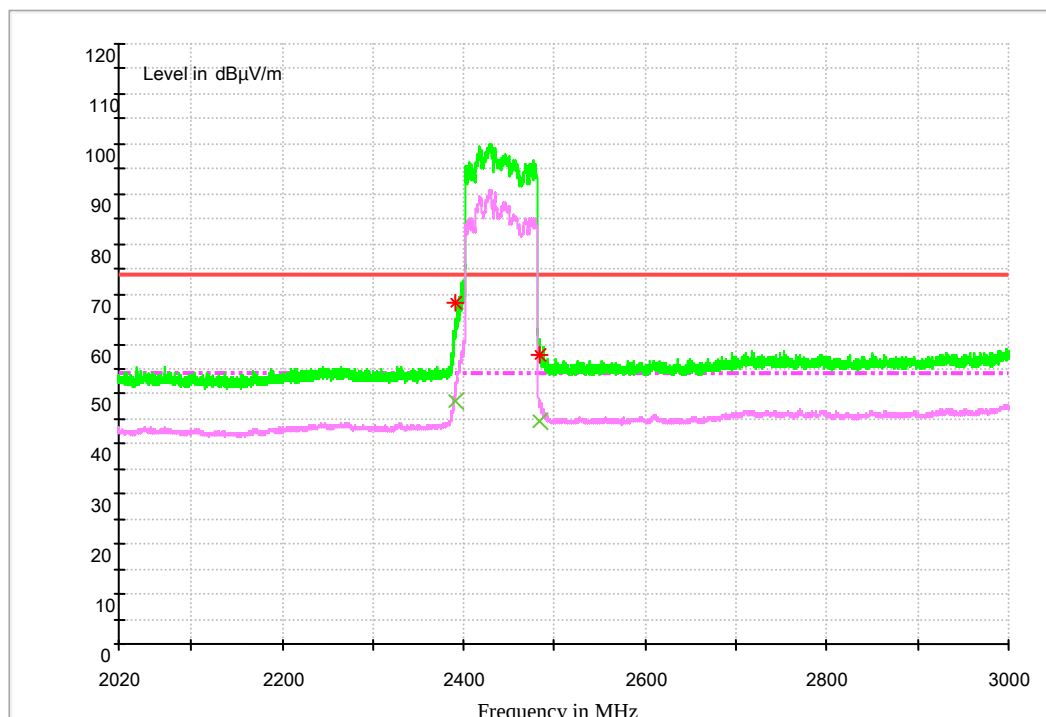
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 56.8            | 38.3         | 74.0            | 17.2         | 100.0        | 33.0           | HORIZONTAL   |
| 2483.500000      | 57.8            | 40.4         | 74.0            | 16.2         | 100.0        | 123.0          | VERTICAL     |

### MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 43.0            | 38.3         | 54.0            | 11.0         | 100.0        | 335.0          | VERTICAL     |
| 2483.500000      | 44.3            | 40.2         | 54.0            | 9.7          | 100.0        | 70.0           | VERTICAL     |

# Test Mode: 11N40m\_L

## Channel 3



Note: The peak exceeds the limit line is carrier frequency.

### MEASUREMENT RESULT: PK Detector

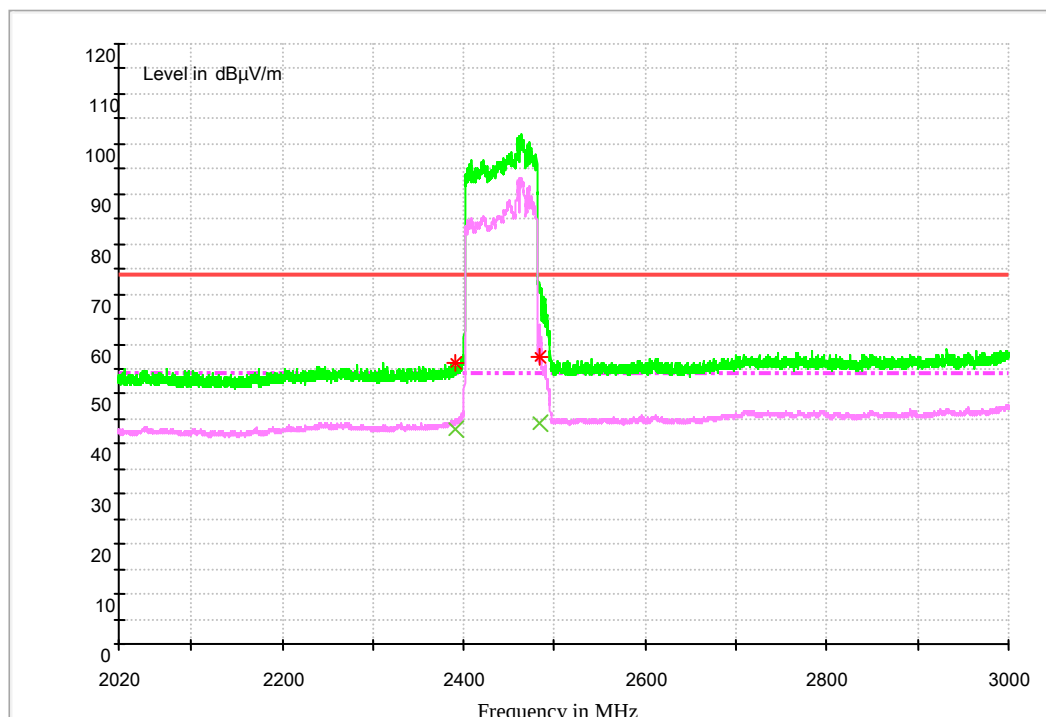
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 68.2            | 38.3         | 74.0            | 5.8          | 100.0        | 115.0          | VERTICAL     |
| 2483.500000      | 58.0            | 40.2         | 74.0            | 16.0         | 100.0        | 122.0          | VERTICAL     |

### MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 48.5            | 38.3         | 54.0            | 5.5          | 100.0        | 122.0          | VERTICAL     |
| 2483.500000      | 44.4            | 40.4         | 54.0            | 9.6          | 100.0        | 153.0          | VERTICAL     |

# Test Mode: 11N40m\_H

## Channel 9



Note: The peak exceeds the limit line is carrier frequency.

### MEASUREMENT RESULT: PK Detector

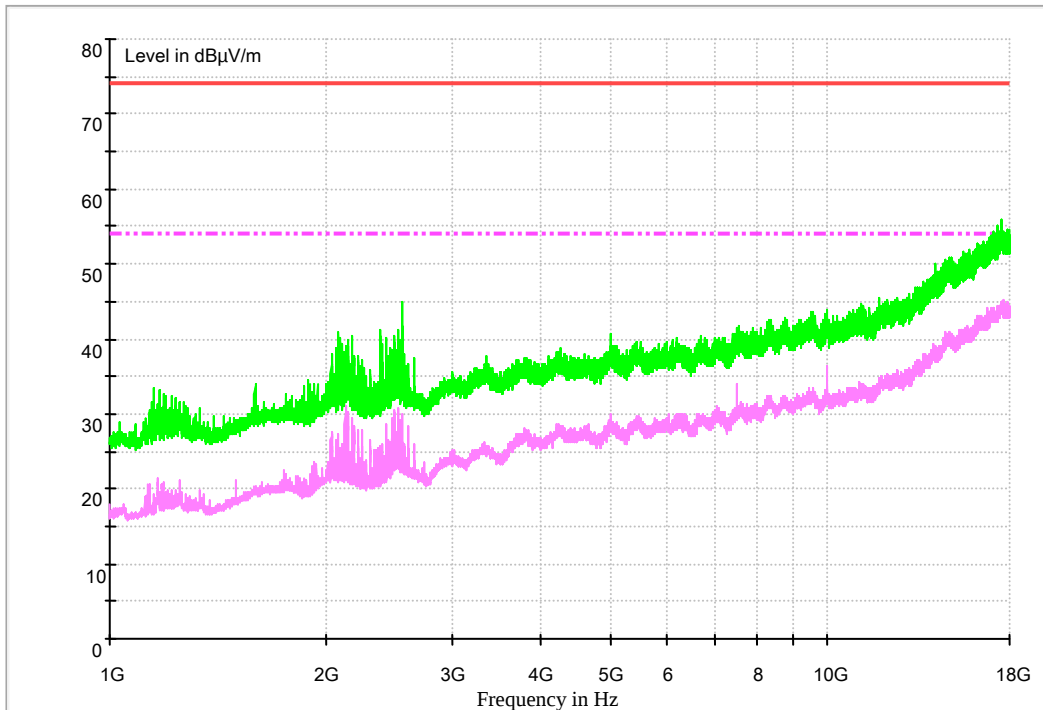
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 56.3            | 38.3         | 74.0            | 17.7         | 100.0        | 6.0            | HORIZONTAL   |
| 2483.500000      | 57.6            | 40.2         | 74.0            | 16.4         | 100.0        | 122.0          | VERTICAL     |

### MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 42.8            | 38.3         | 54.0            | 11.2         | 100.0        | 39.0           | HORIZONTAL   |
| 2483.500000      | 44.2            | 40.1         | 54.0            | 9.8          | 100.0        | 124.0          | VERTICAL     |

#### **Part 4: Testing Range of “1 GHz to 18 GHz”**

- Note 1: The test results and plot for testing range of “1 GHz to 18 GHz” showed as below is **the WORST case for all Test Modes and Channels**. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of “1 GHz to 18 GHz” is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.
- Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB $\mu$ V/m) and Average Limit (54 dB $\mu$ V/m).

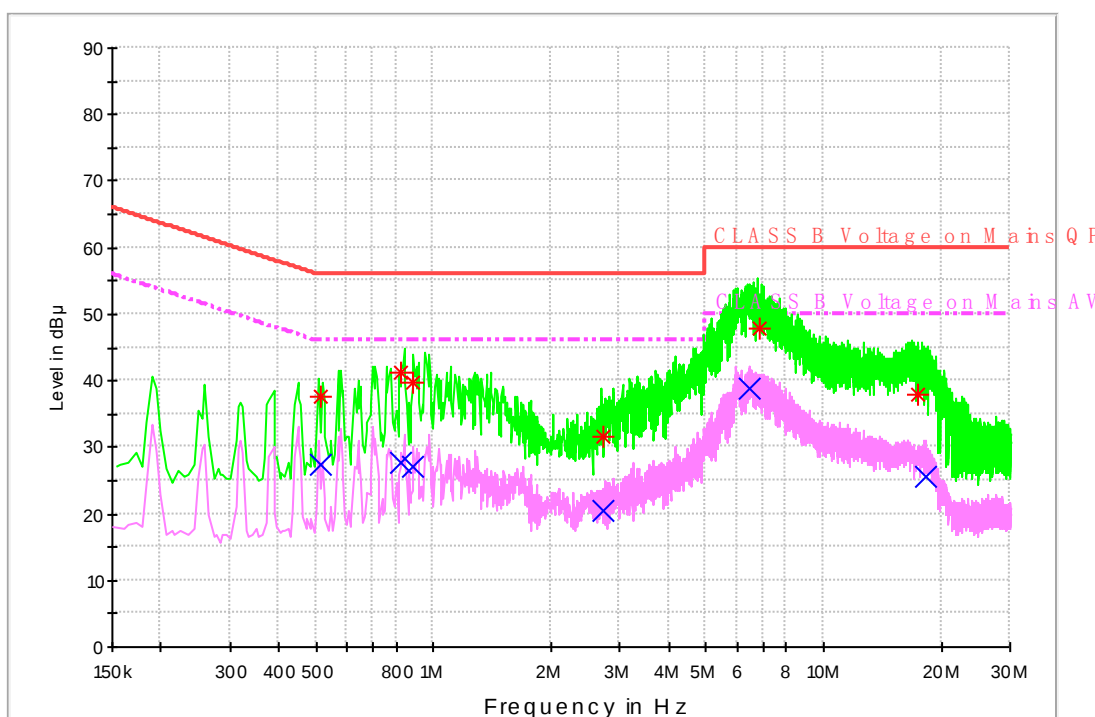


## Appendix H: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

### Channel 6

CLASS B Voltage with ENV216



MEASUREMENT RESULT: QP Detector

| Frequency<br>MHz | Level<br>dBμV | Line | Transd<br>dB | Margin<br>dB | Limit<br>dBμV | PE  |
|------------------|---------------|------|--------------|--------------|---------------|-----|
| 4.597342         | 32.7          | L1   | 9.8          | 23.3         | 56.0          | FLO |
| 5.762066         | 34.3          | N    | 9.8          | 25.7         | 60.0          | FLO |
| 7.329218         | 34.6          | L1   | 9.9          | 25.4         | 60.0          | FLO |
| 9.175512         | 33.9          | L1   | 9.9          | 26.1         | 60.0          | FLO |
| 10.961898        | 34.0          | L1   | 9.9          | 26.0         | 60.0          | FLO |
| 12.638190        | 36.4          | L1   | 10.0         | 23.6         | 60.0          | FLO |

## MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV | Line | Transd<br>dB | Margin<br>dB | Limit<br>dBμV | PE  |
|------------------|---------------|------|--------------|--------------|---------------|-----|
| 4.469026         | 26.4          | N    | 9.8          | 19.6         | 46.0          | FLO |
| 5.815751         | 26.8          | L1   | 9.8          | 23.2         | 50.0          | FLO |
| 7.256054         | 27.2          | L1   | 9.9          | 22.8         | 50.0          | FLO |
| 9.089820         | 26.5          | N    | 9.9          | 23.5         | 50.0          | FLO |
| 10.810856        | 26.5          | N    | 9.9          | 23.5         | 50.0          | FLO |
| 12.822015        | 28.4          | N    | 10.0         | 21.6         | 50.0          | FLO |

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END