



# 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	8.21	pass
11B	L	2412	Ant 2	8.57	pass
11B	M	2437	Ant 1	8.39	pass
11B	M	2437	Ant 2	8.42	pass
11B	H	2462	Ant 1	8.24	pass
11B	H	2462	Ant 2	6.89	pass
11G	L	2412	Ant 1	16.50	pass
11G	L	2412	Ant 2	16.53	pass
11G	M	2437	Ant 1	16.53	pass
11G	M	2437	Ant 2	16.51	pass
11G	H	2462	Ant 1	16.48	pass
11G	H	2462	Ant 2	16.48	pass
11N20	L	2412	Ant 1	17.69	pass
11N20	L	2412	Ant 2	17.73	pass
11N20	M	2437	Ant 1	17.70	pass
11N20	M	2437	Ant 2	17.73	pass
11N20	H	2462	Ant 1	17.66	pass
11N20	H	2462	Ant 2	17.73	pass
11N20m	L	2412	Ant 1	17.71	pass
11N20m	L	2412	Ant 2	17.65	pass
11N20m	M	2437	Ant 1	17.65	pass
11N20m	M	2437	Ant 2	17.65	pass
11N20m	H	2462	Ant 1	17.34	pass
11N20m	H	2462	Ant 2	17.66	pass
11N40	L	2422	Ant 1	36.34	pass
11N40	L	2422	Ant 2	28.21	pass
11N40	L	2422	Ant 2	36.34	pass
11N40	M	2437	Ant 1	36.41	pass

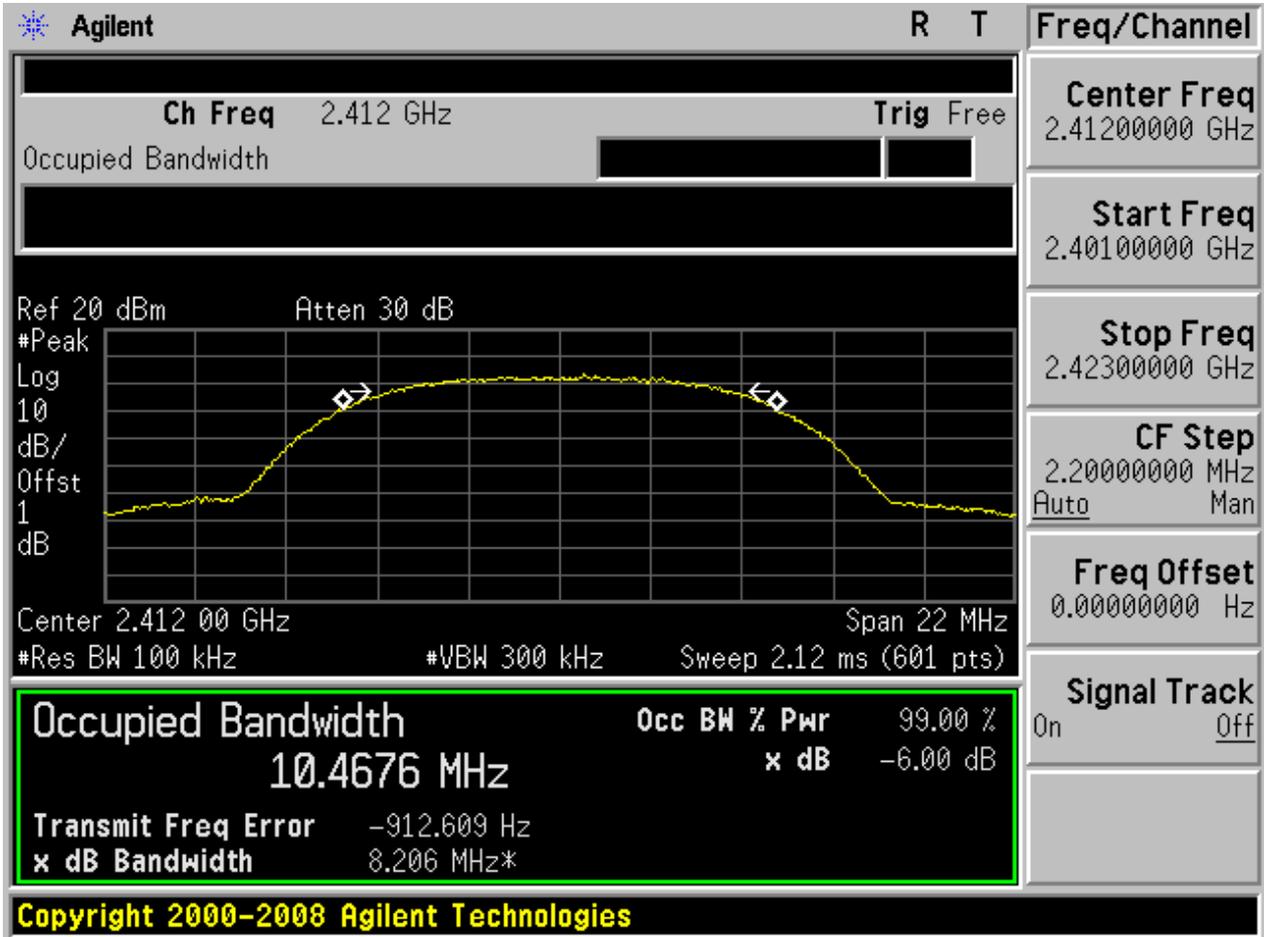


Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11N40	M	2437	Ant 2	36.42	pass
11N40	H	2452	Ant 1	35.82	pass
11N40	H	2452	Ant 2	36.41	pass
11N40m	L	2422	Ant 1	35.06	pass
11N40m	L	2422	Ant 2	35.46	pass
11N40m	M	2437	Ant 1	35.20	pass
11N40m	M	2437	Ant 2	35.22	pass
11N40m	H	2452	Ant 1	32.96	pass
11N40m	H	2452	Ant 2	35.67	pass



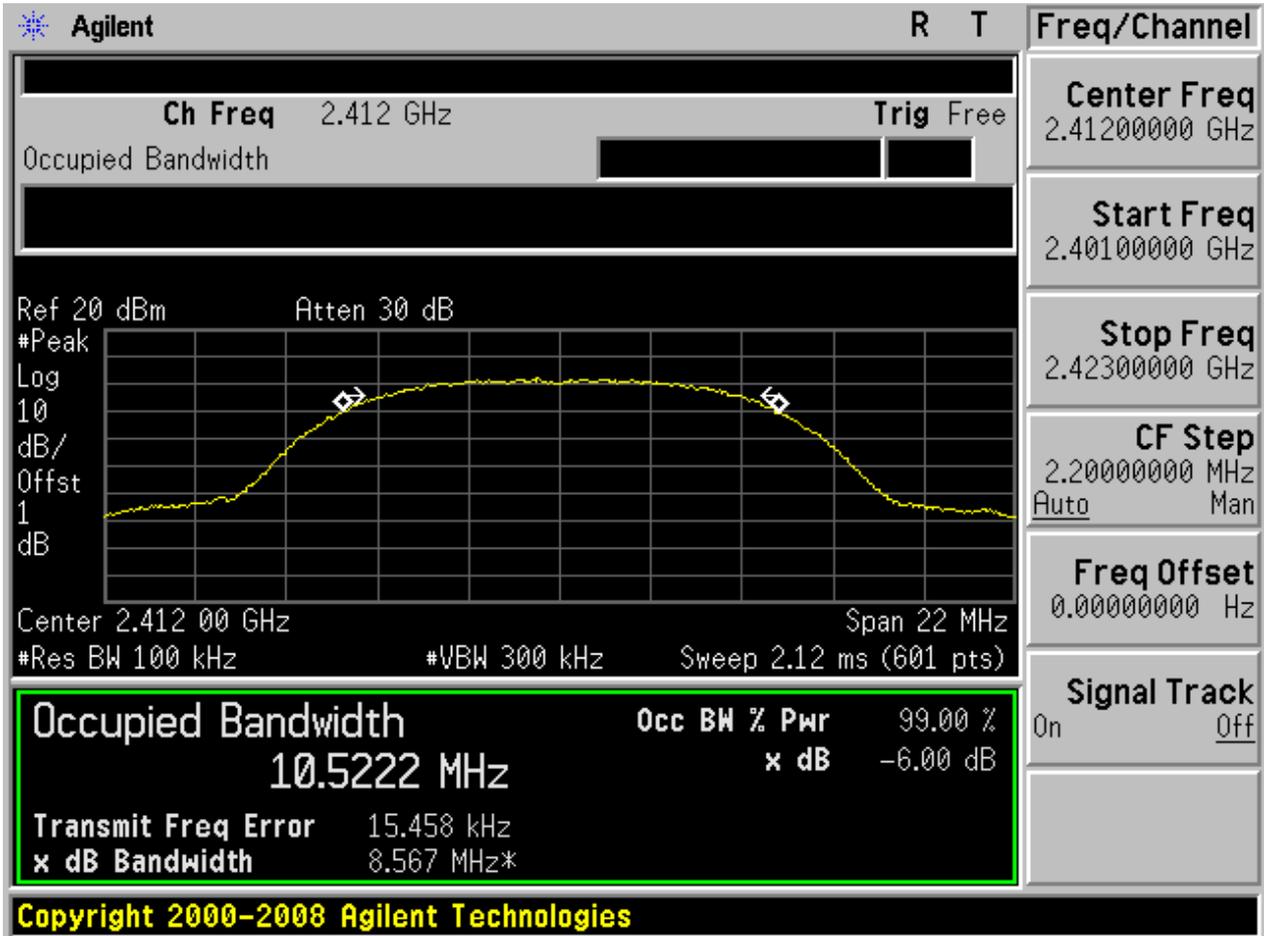
Part II - Test Plots

2.1 11B\_L@Ant 1



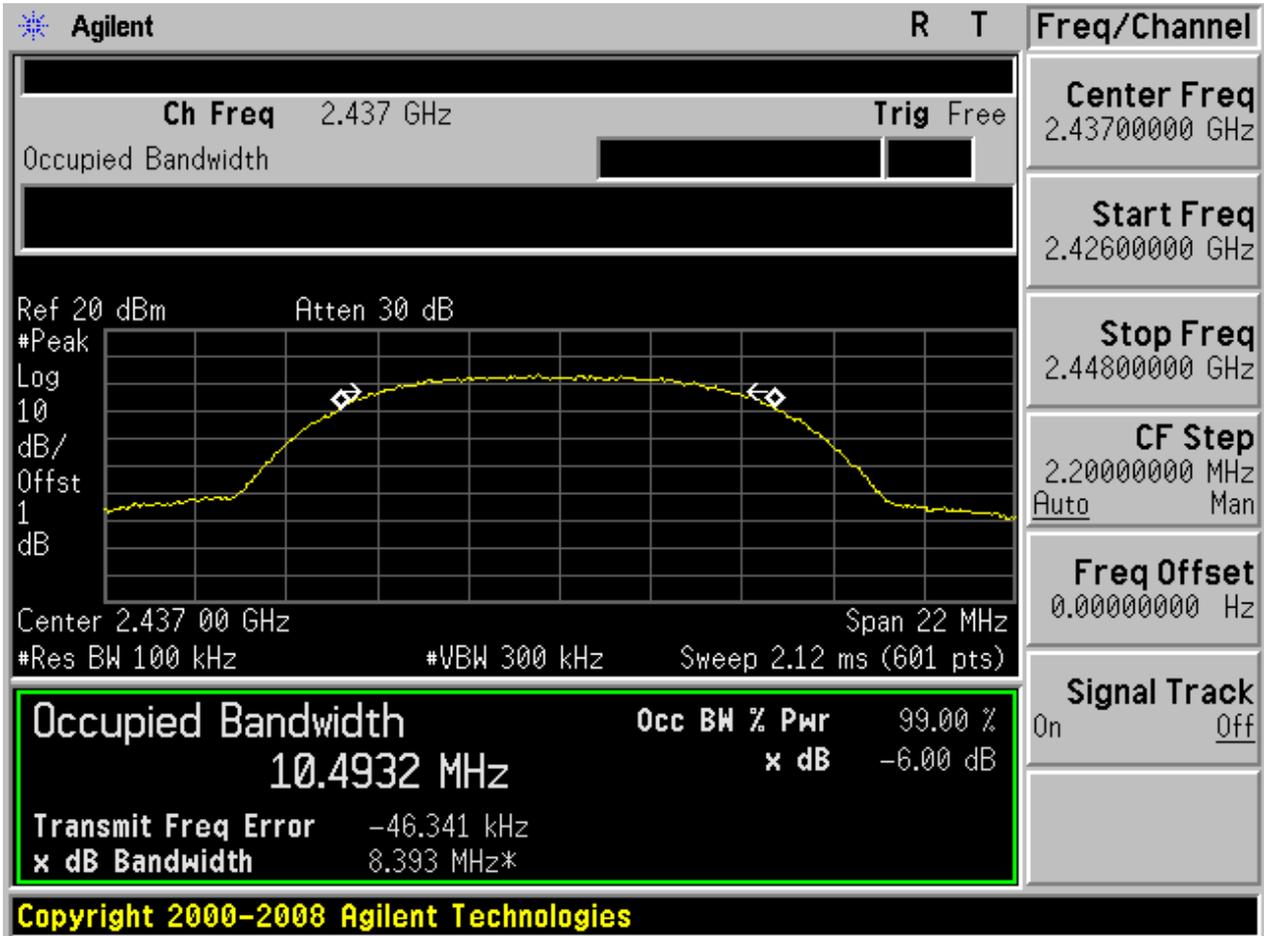


2.2 11B\_L@Ant 2



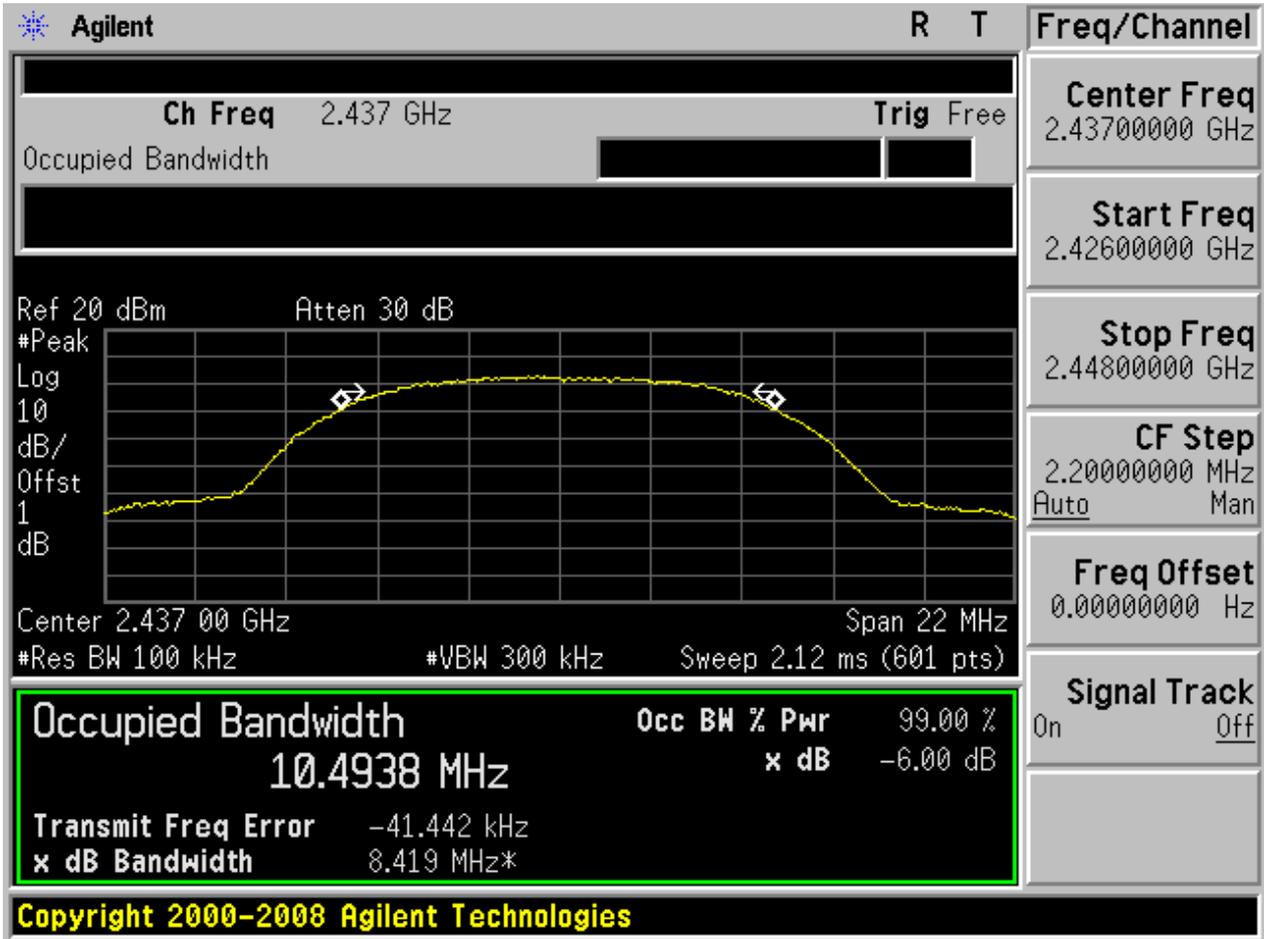


2.3 11B\_M@Ant 1



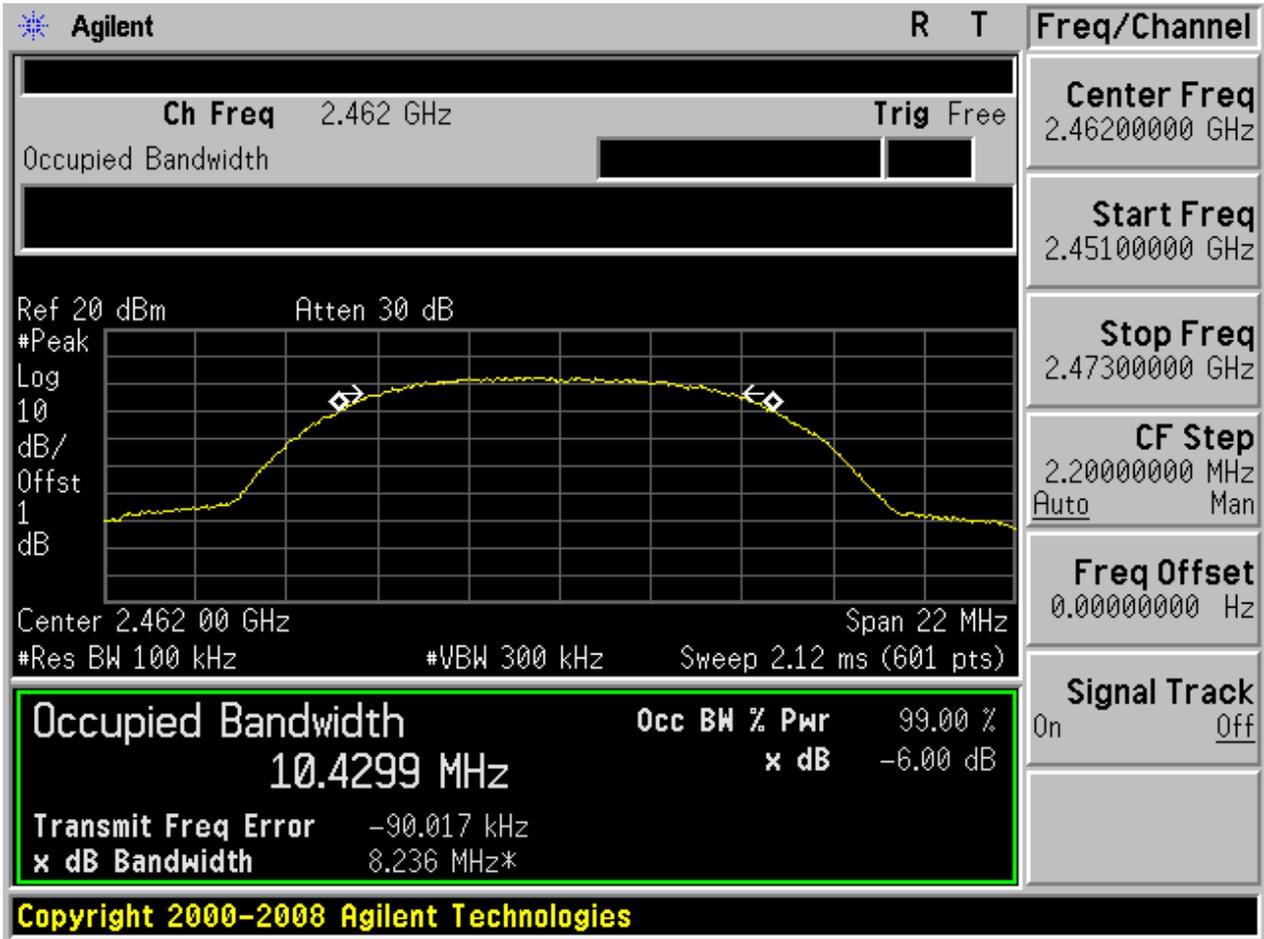


2.4 11B\_M@Ant 2



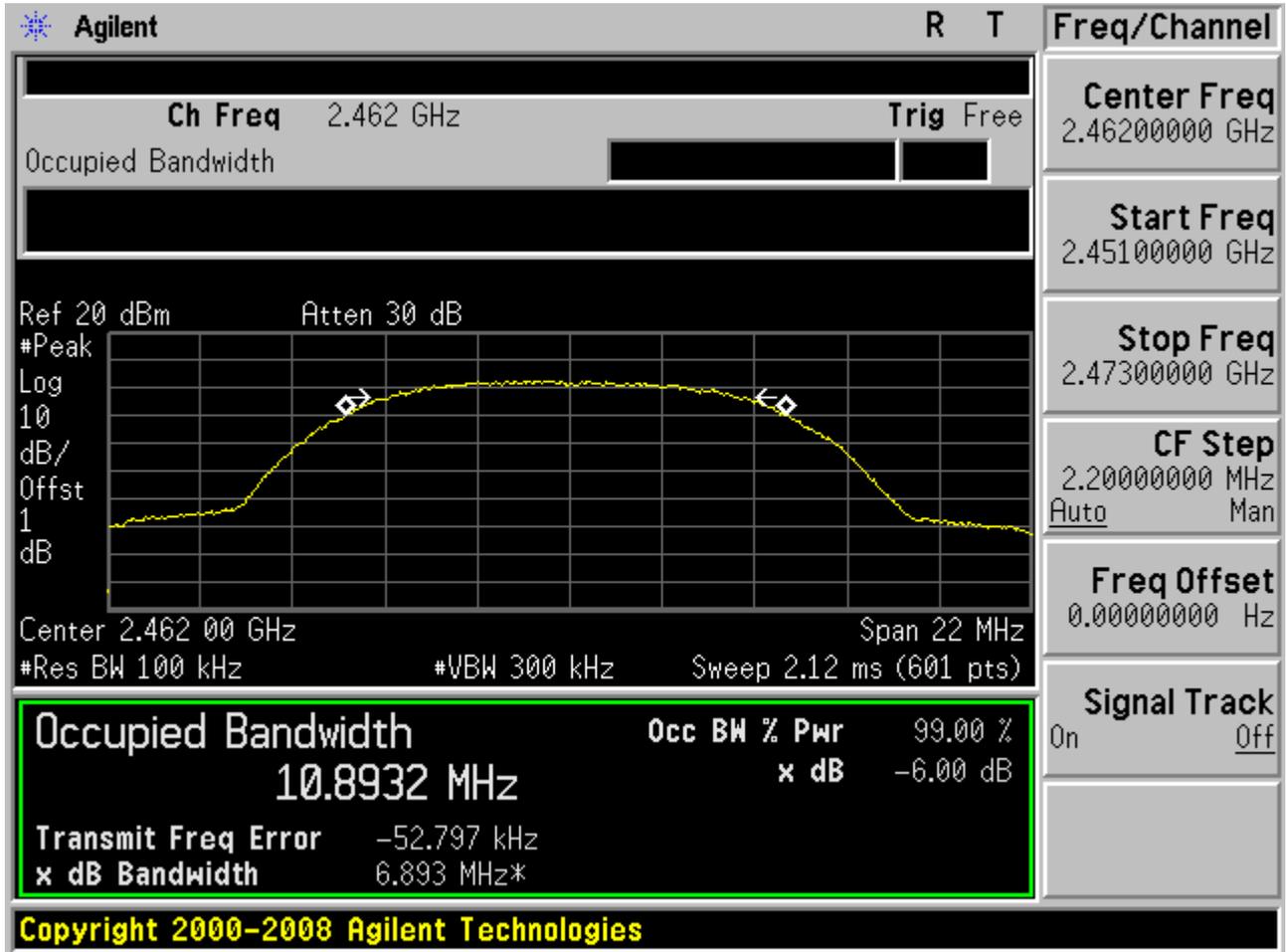


2.5 11B\_H@Ant 1



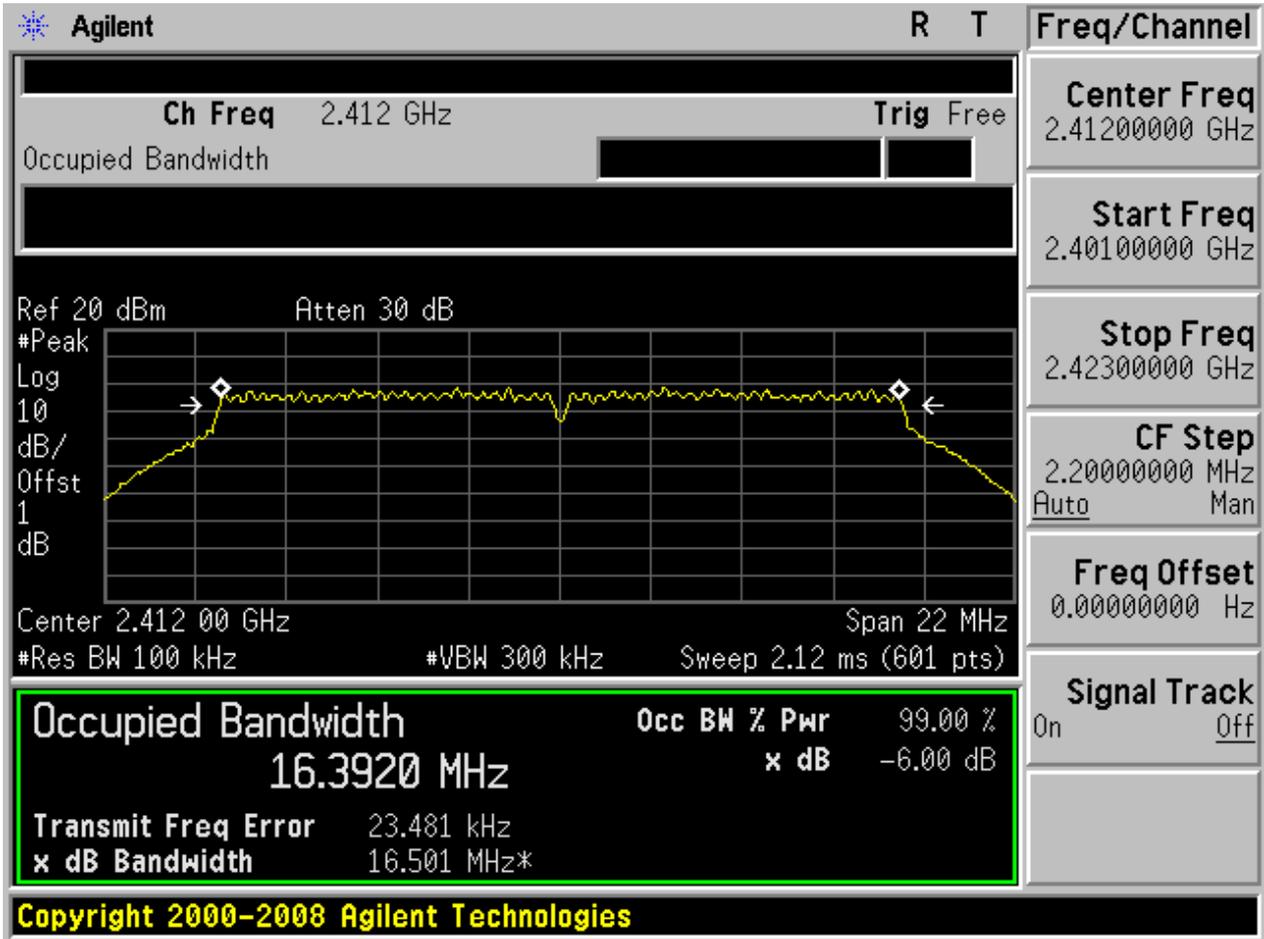


2.6 11B\_H@Ant 2





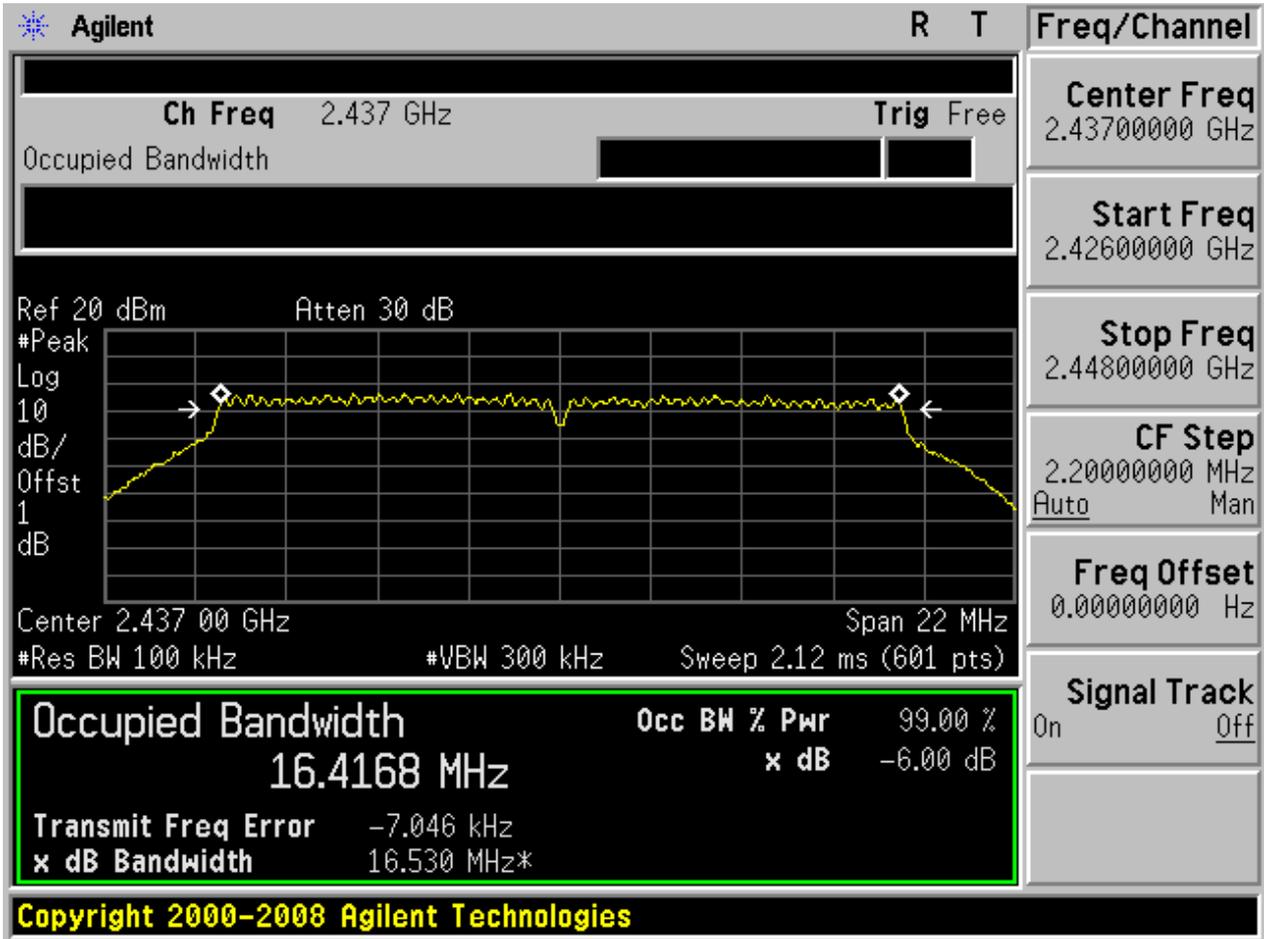
2.7 11G\_L@Ant 1





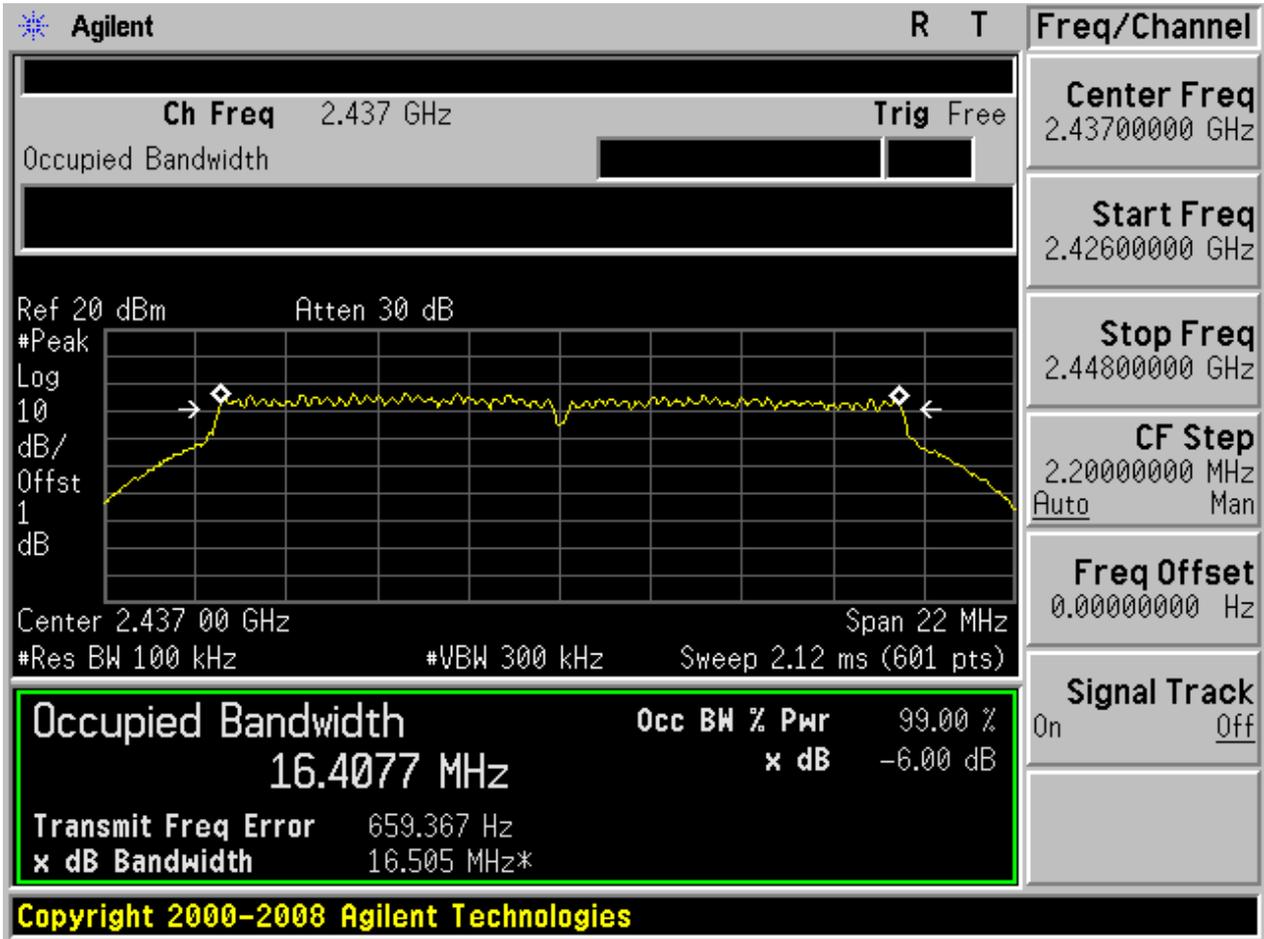


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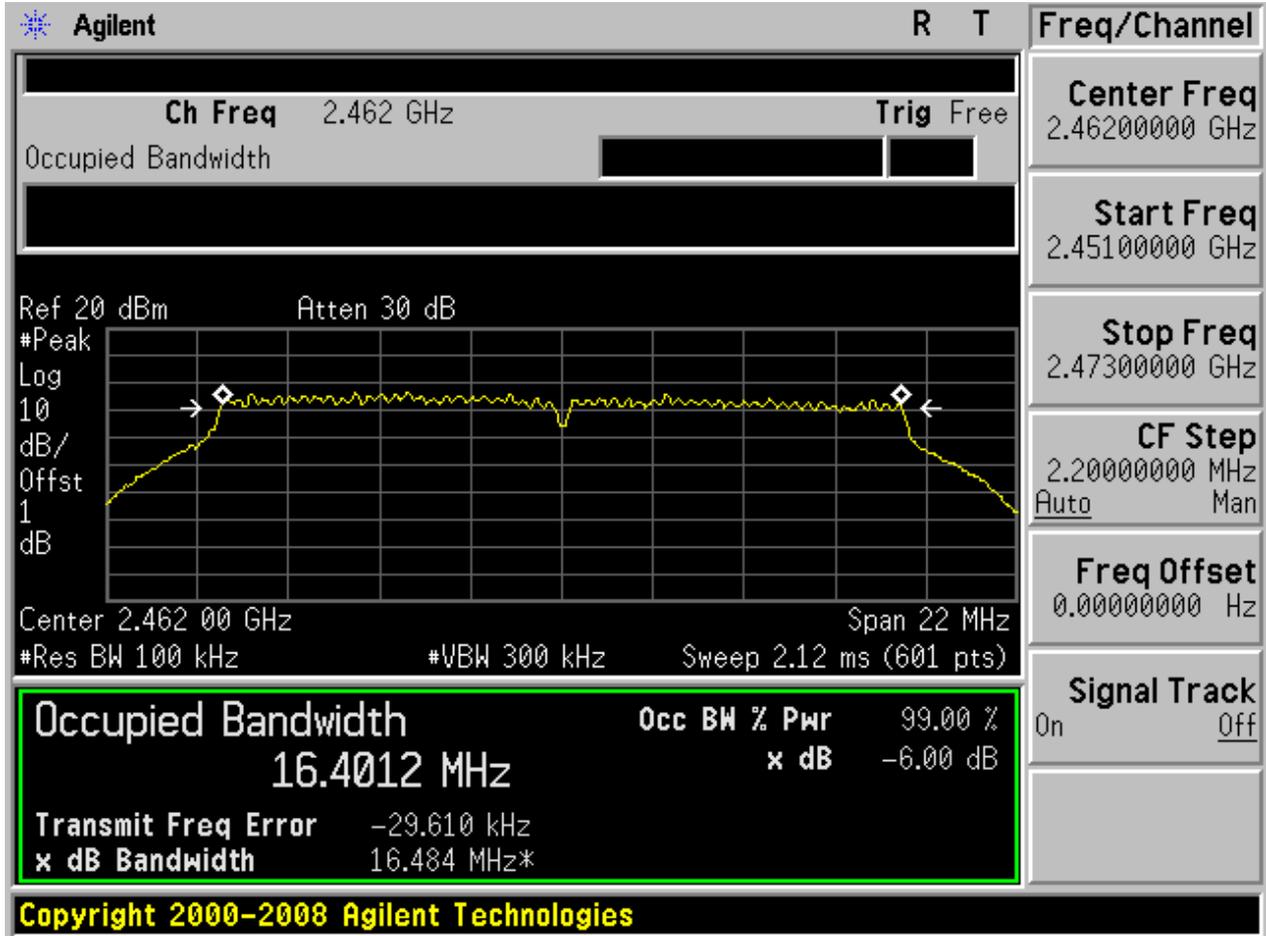




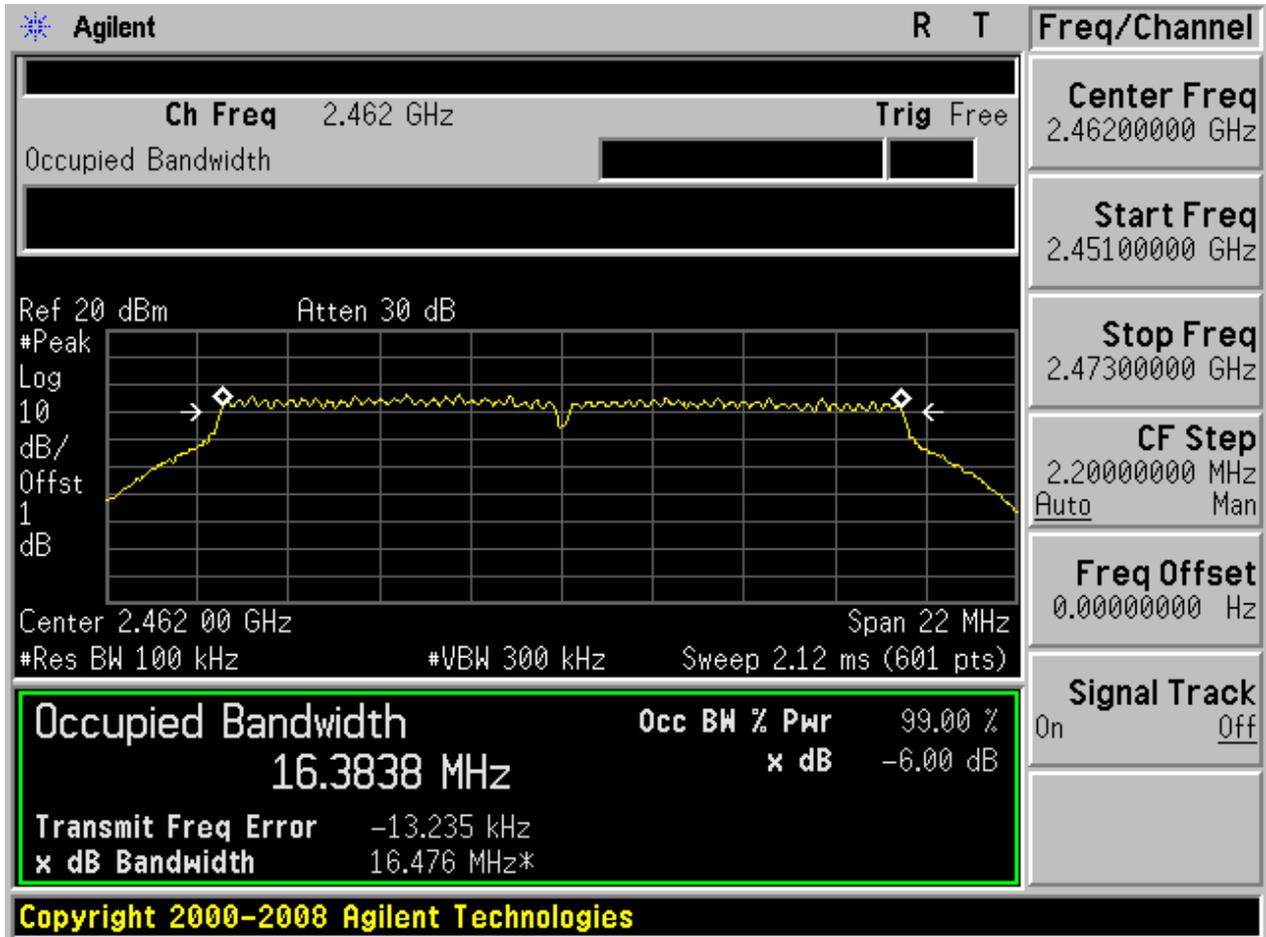
2.10 11G\_M@Ant 2



2.11 11G\_H@Ant 1

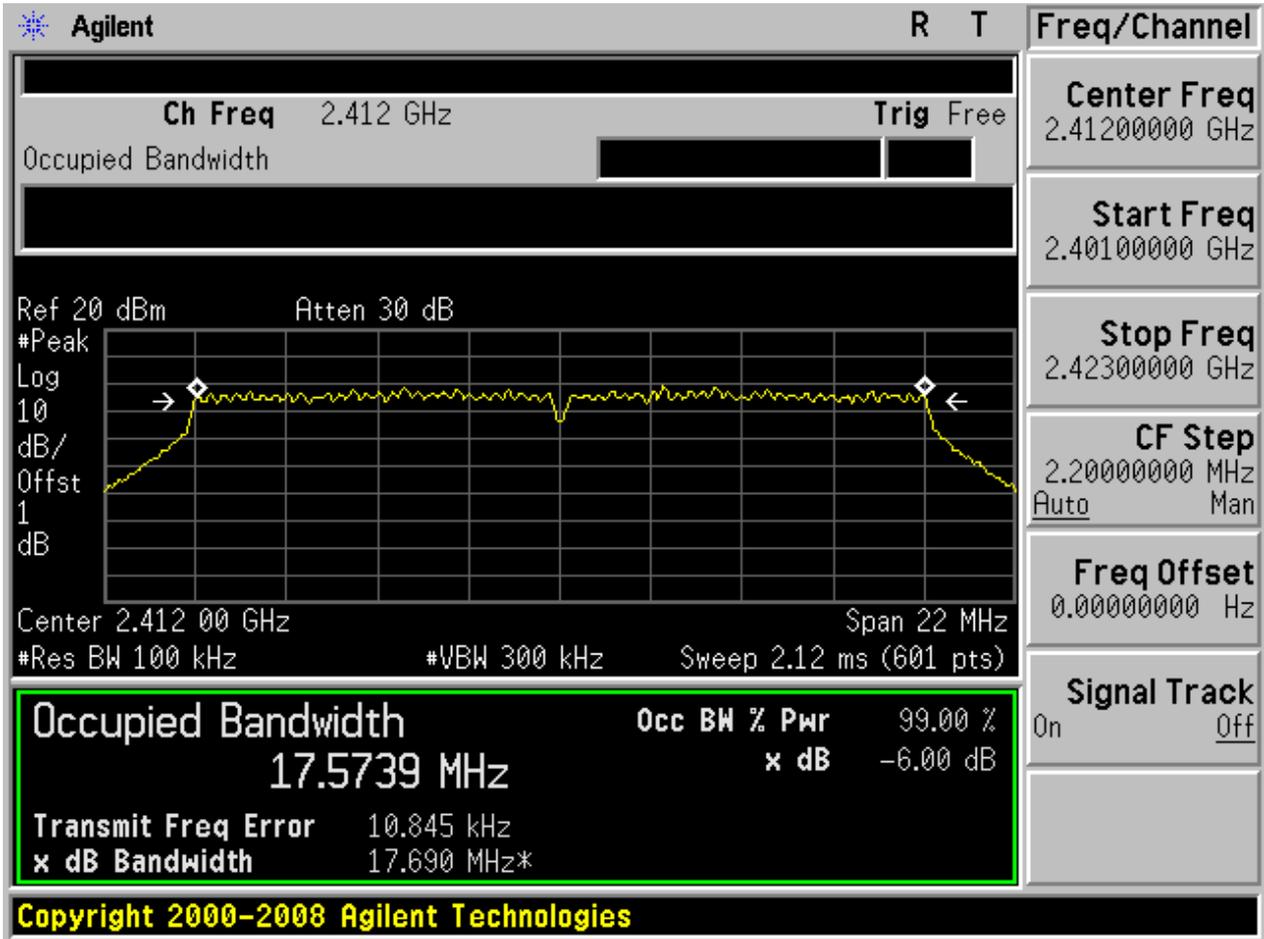


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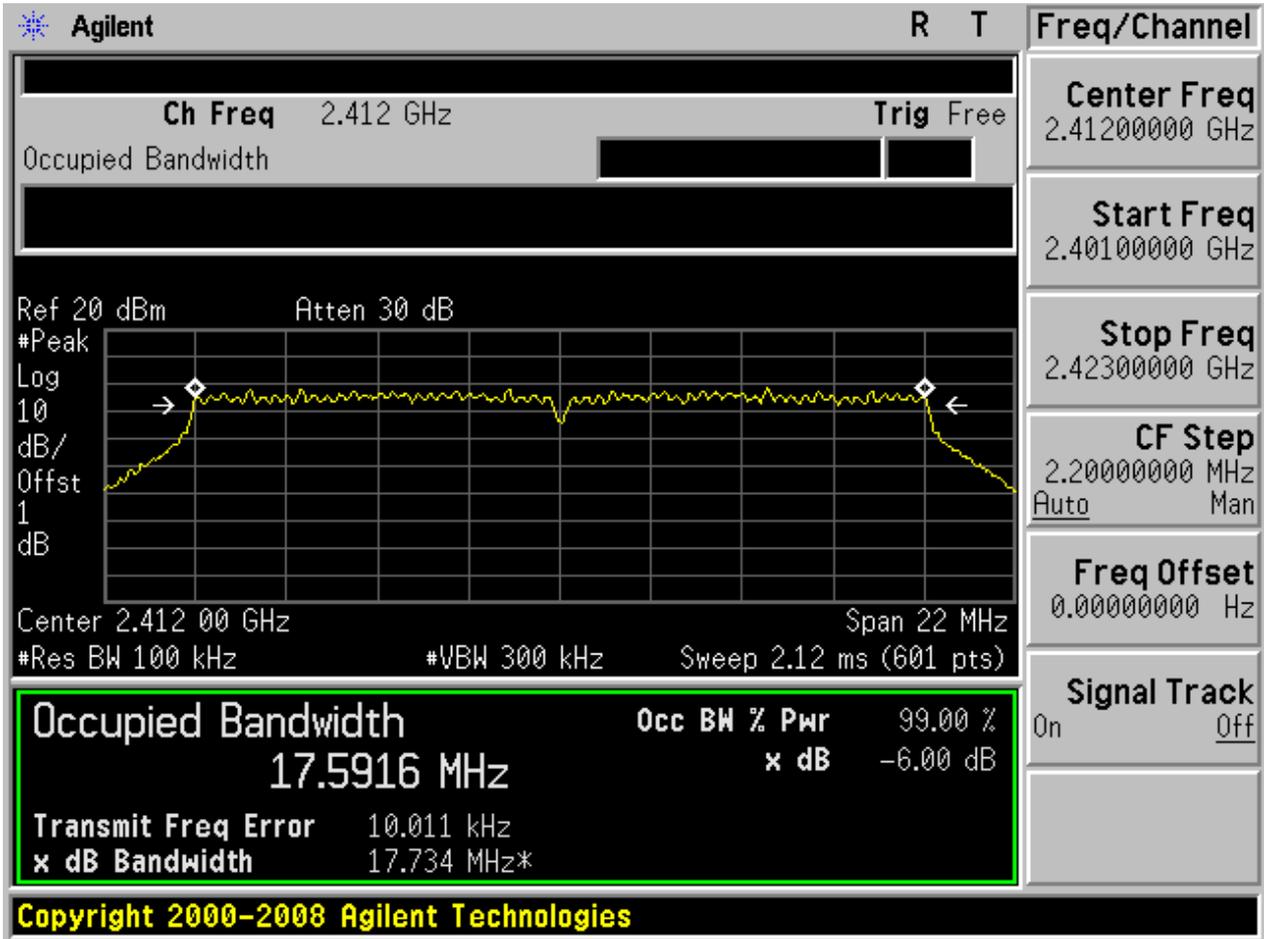




2.13 11N20\_L@Ant 1

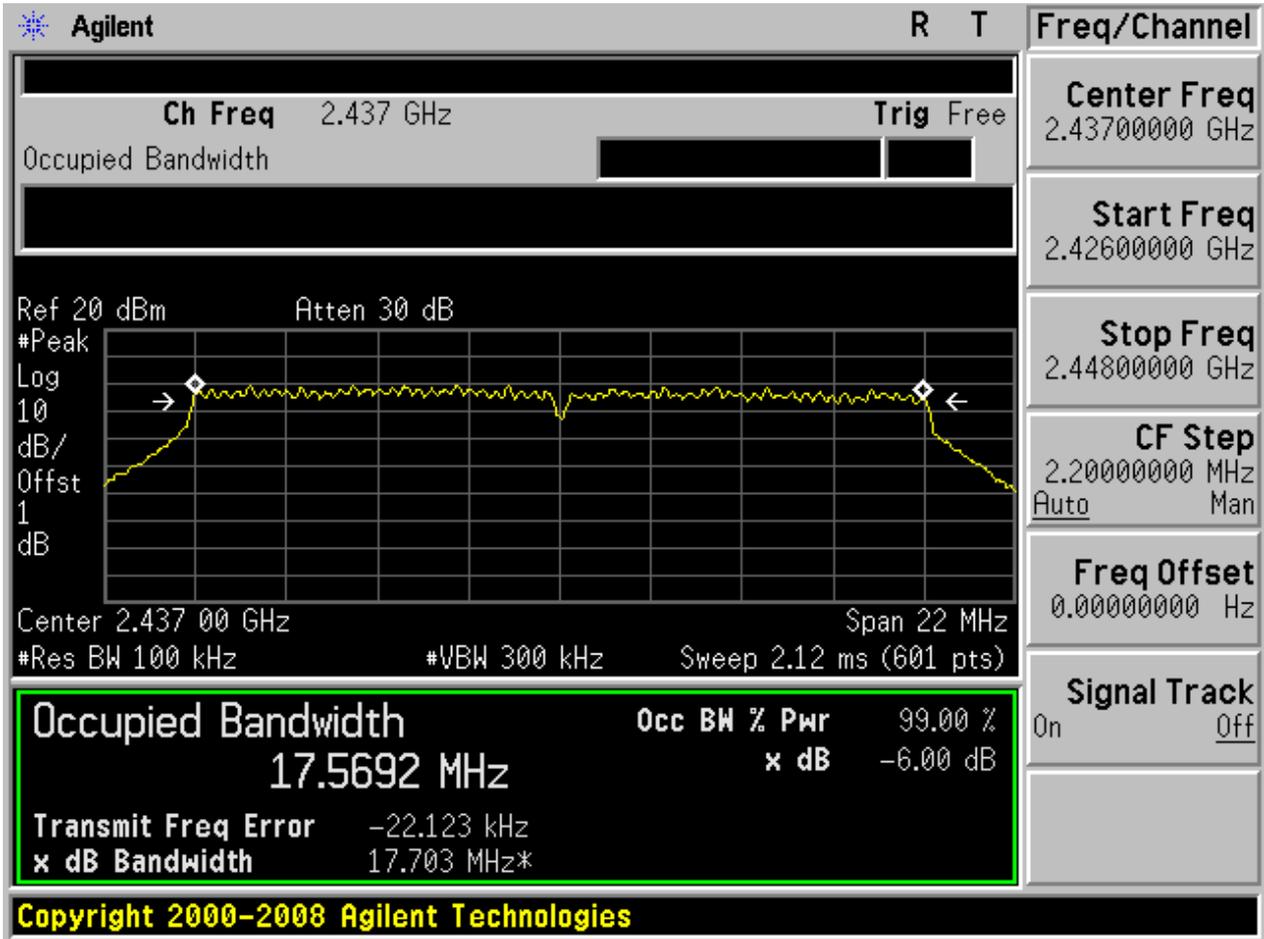


2.14 11N20\_L@Ant 2



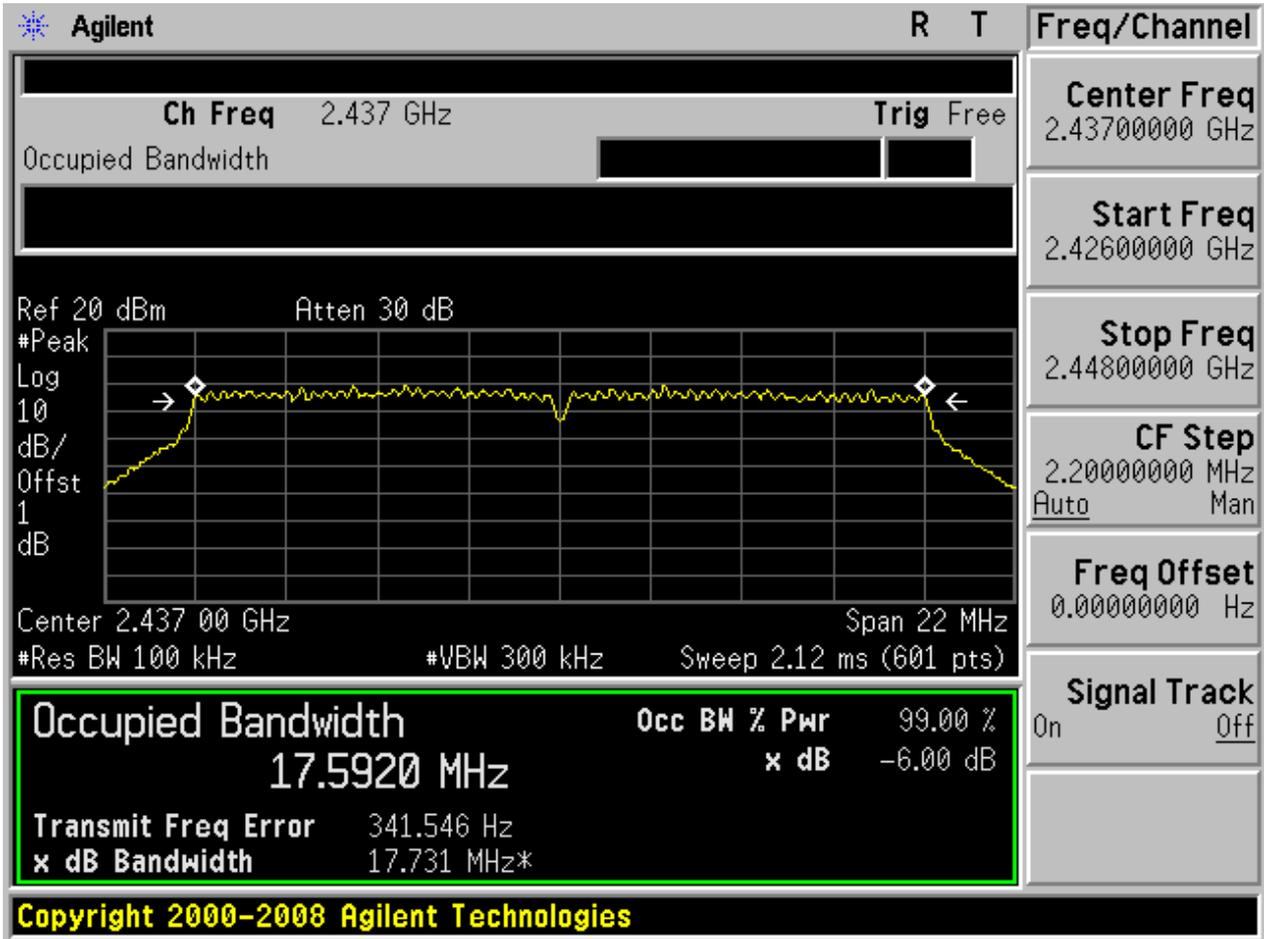


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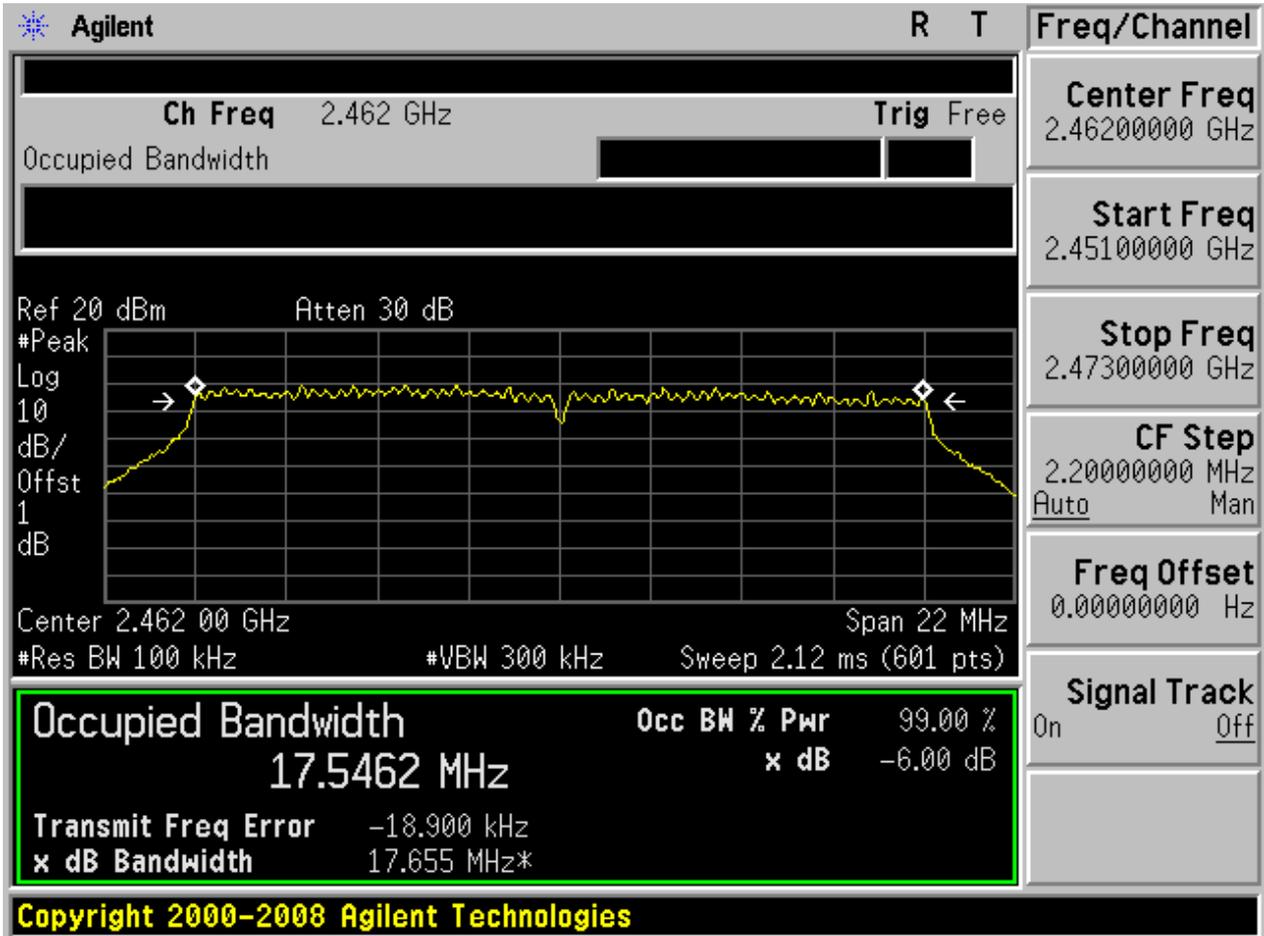


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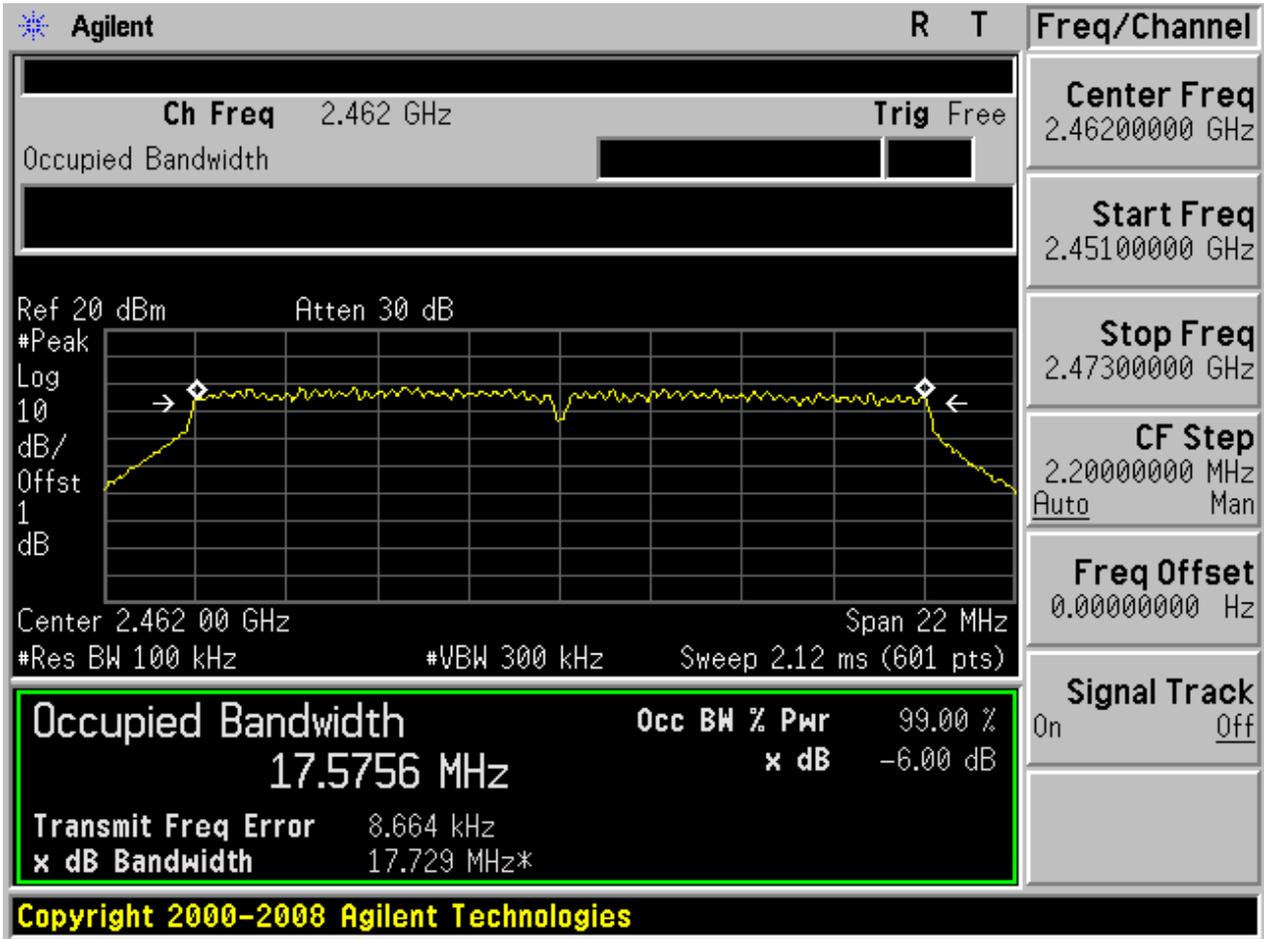


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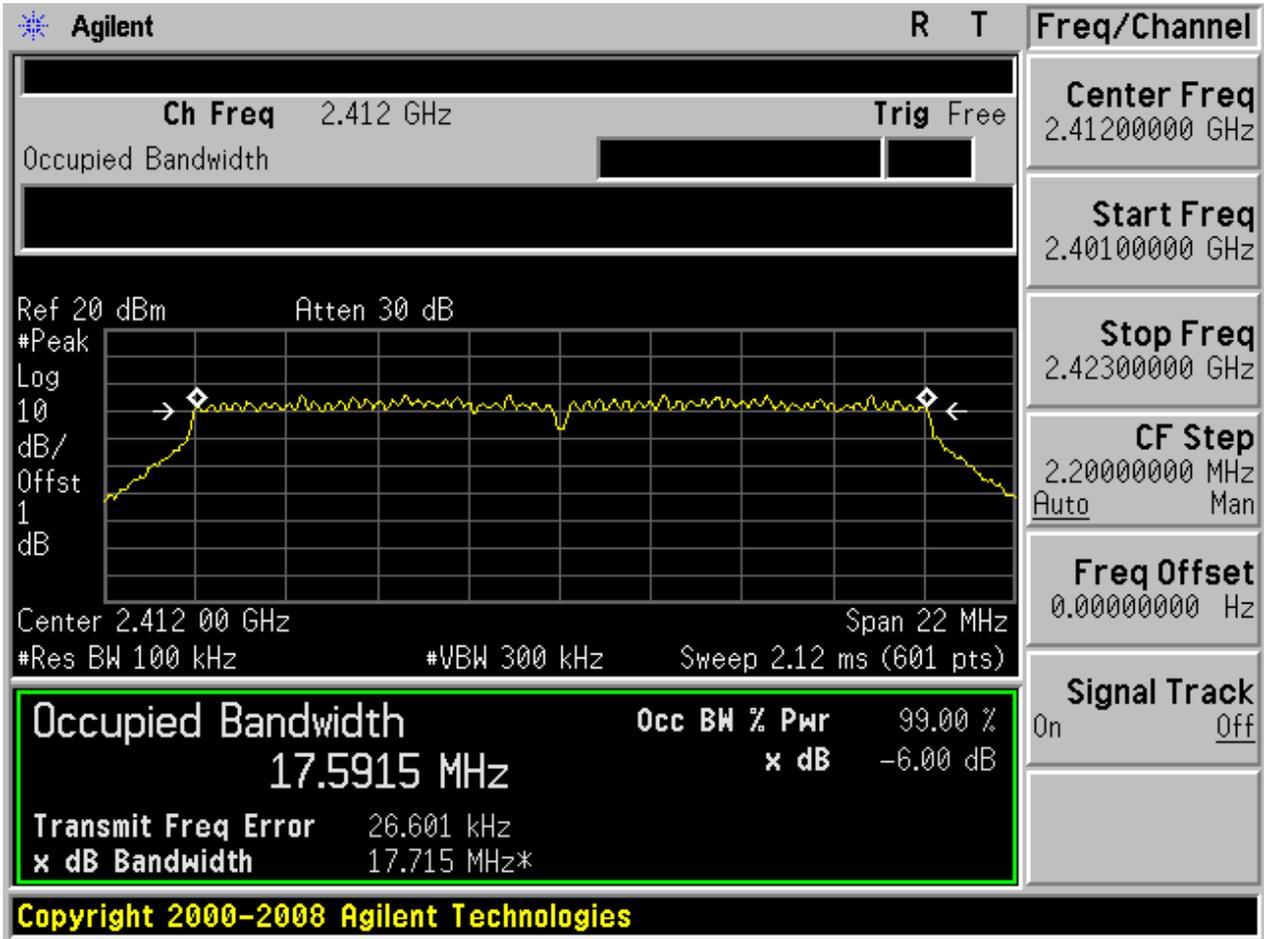


2.18 11N20\_H@Ant 2



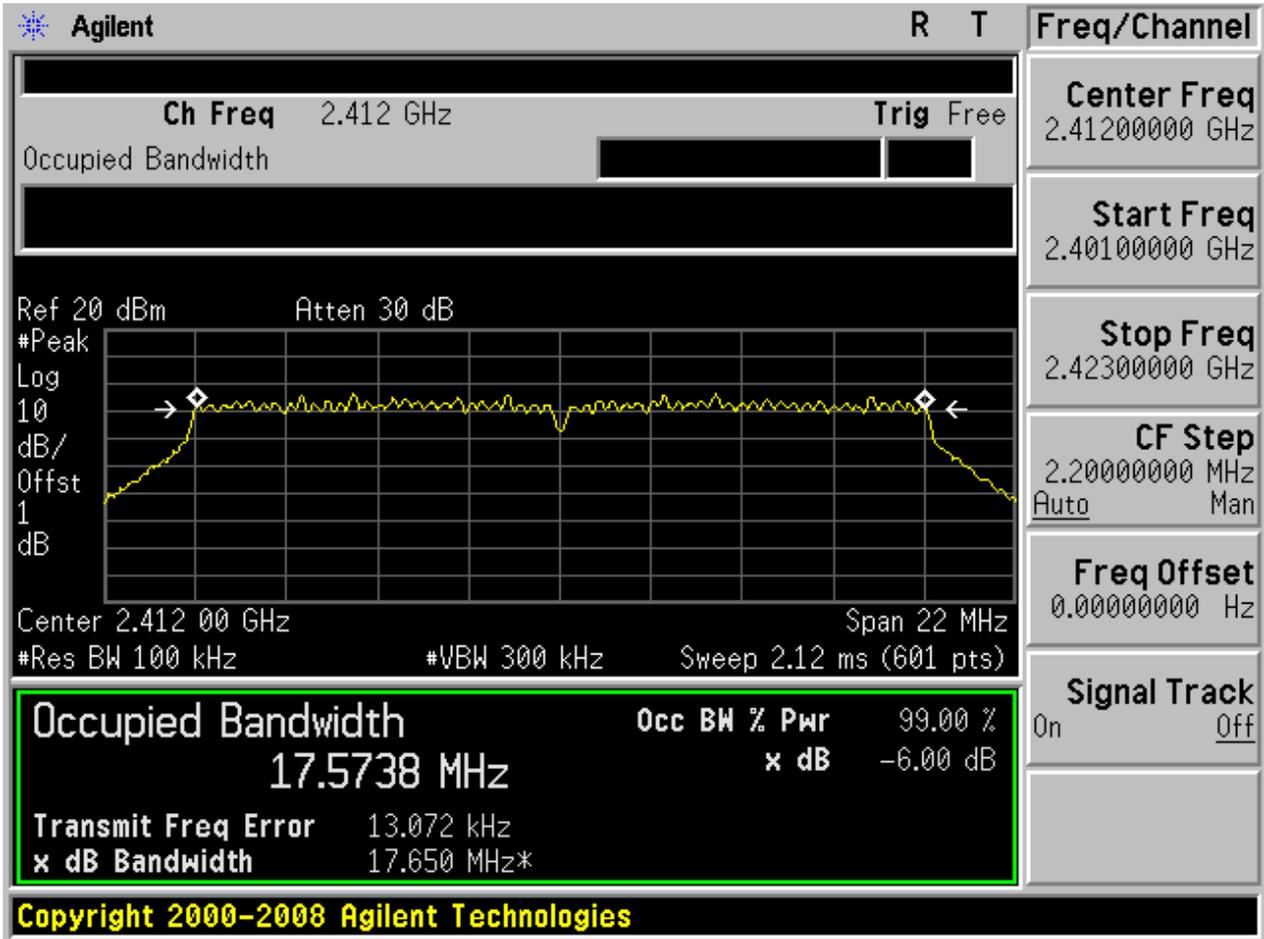


2.19 11N20m\_L@Ant 1

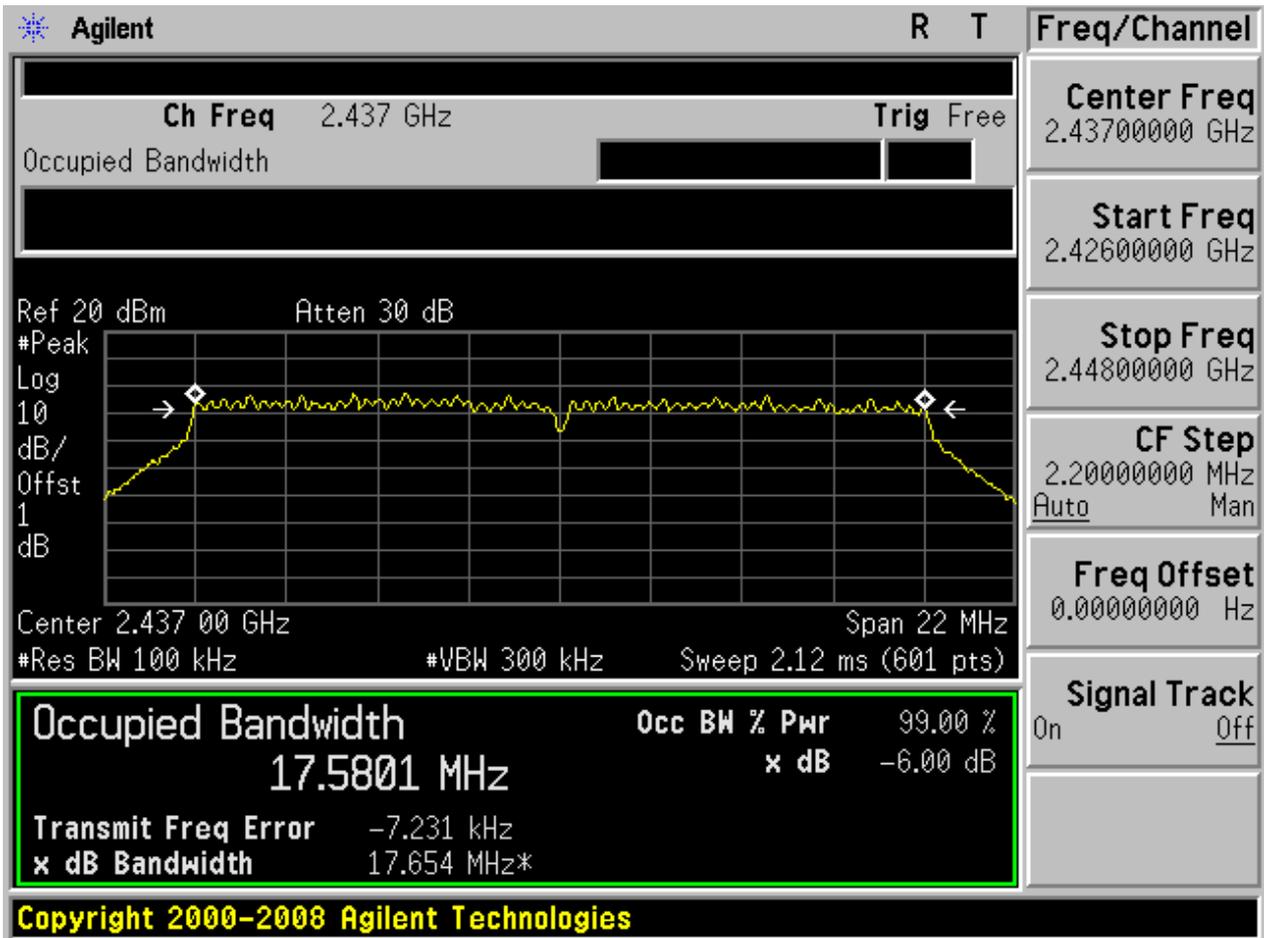




2.20 11N20m\_L@Ant 2

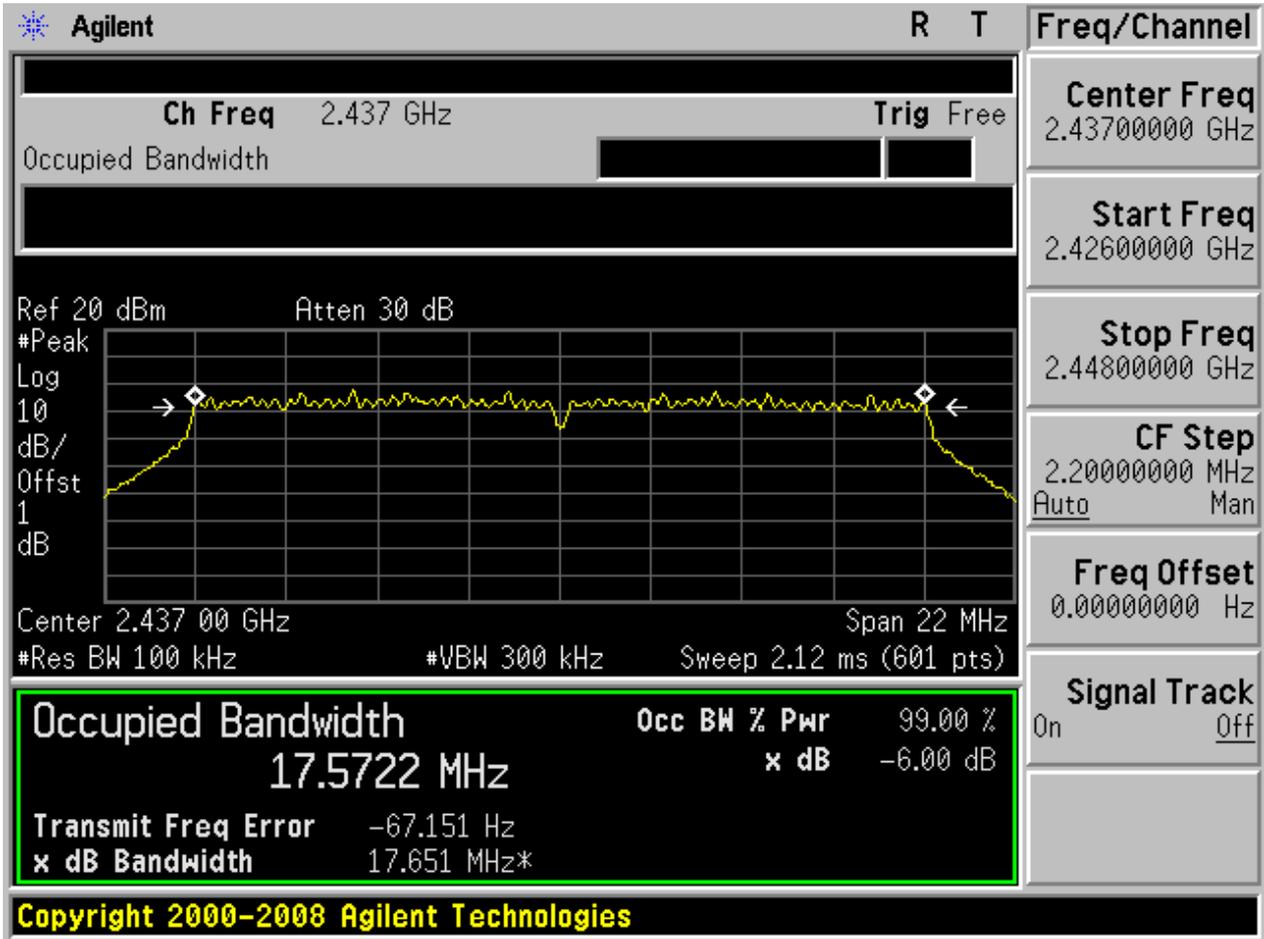


2.21 11N20m\_M@Ant 1



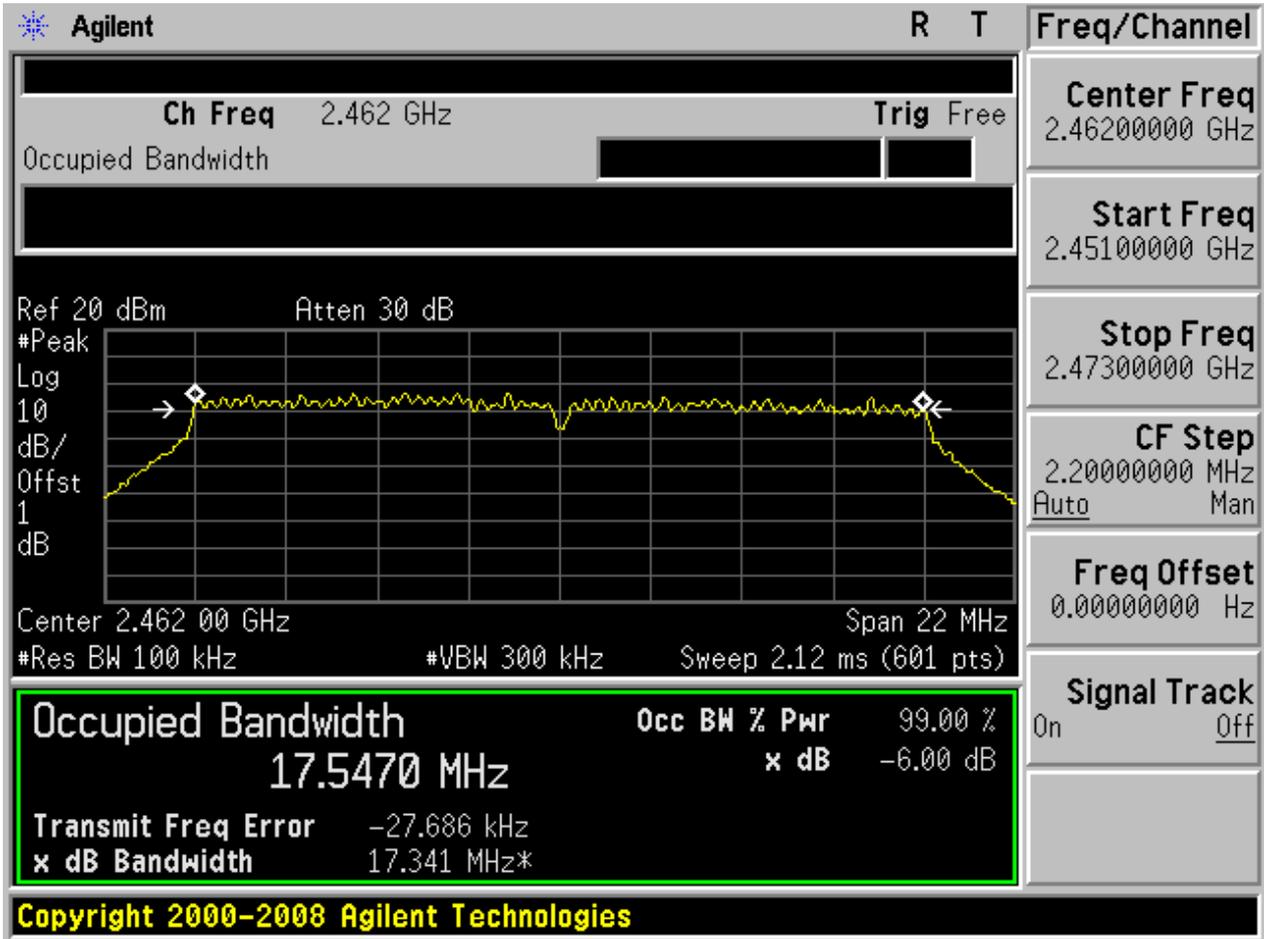


2.22 11N20m\_M@Ant 2



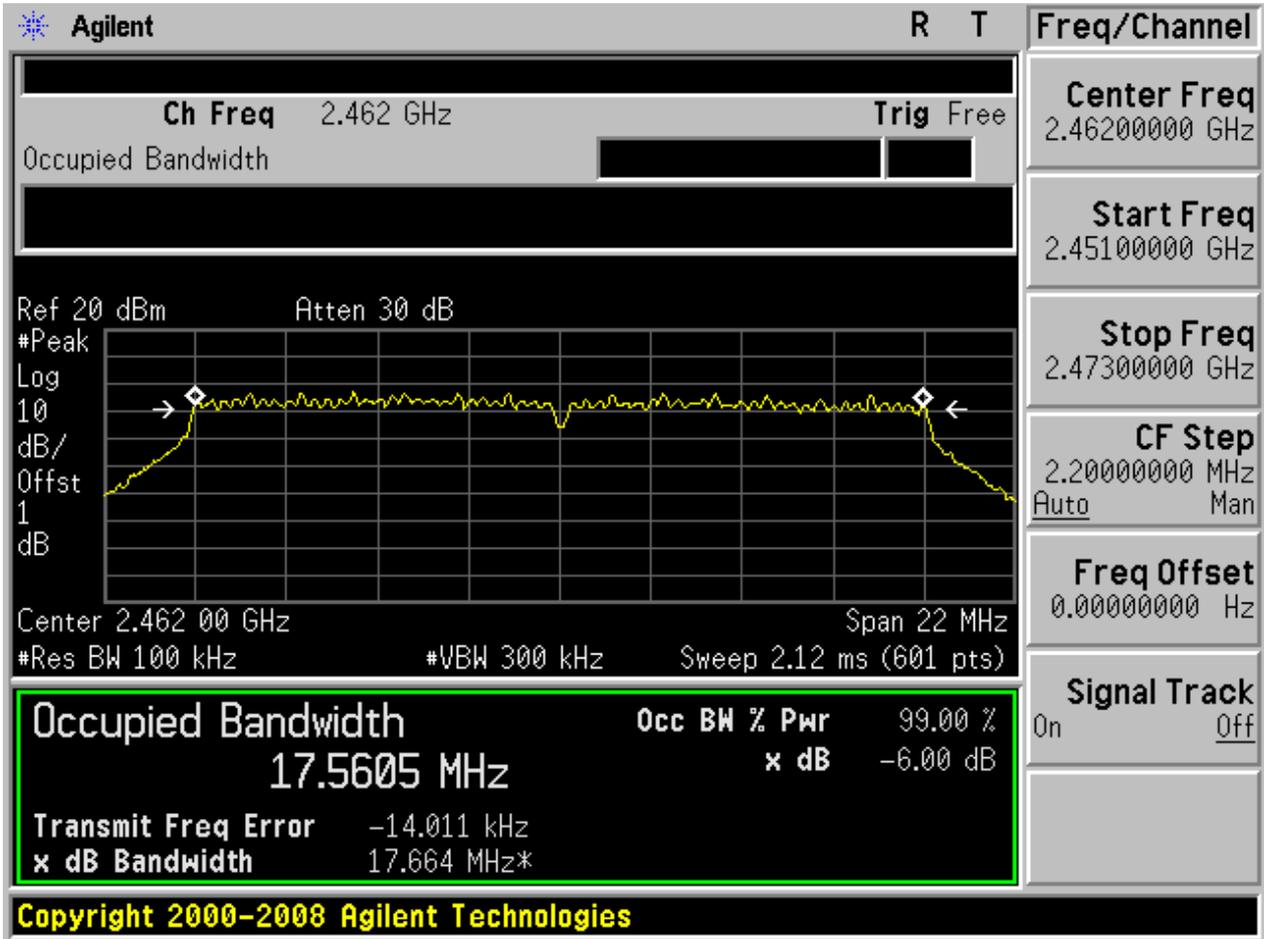


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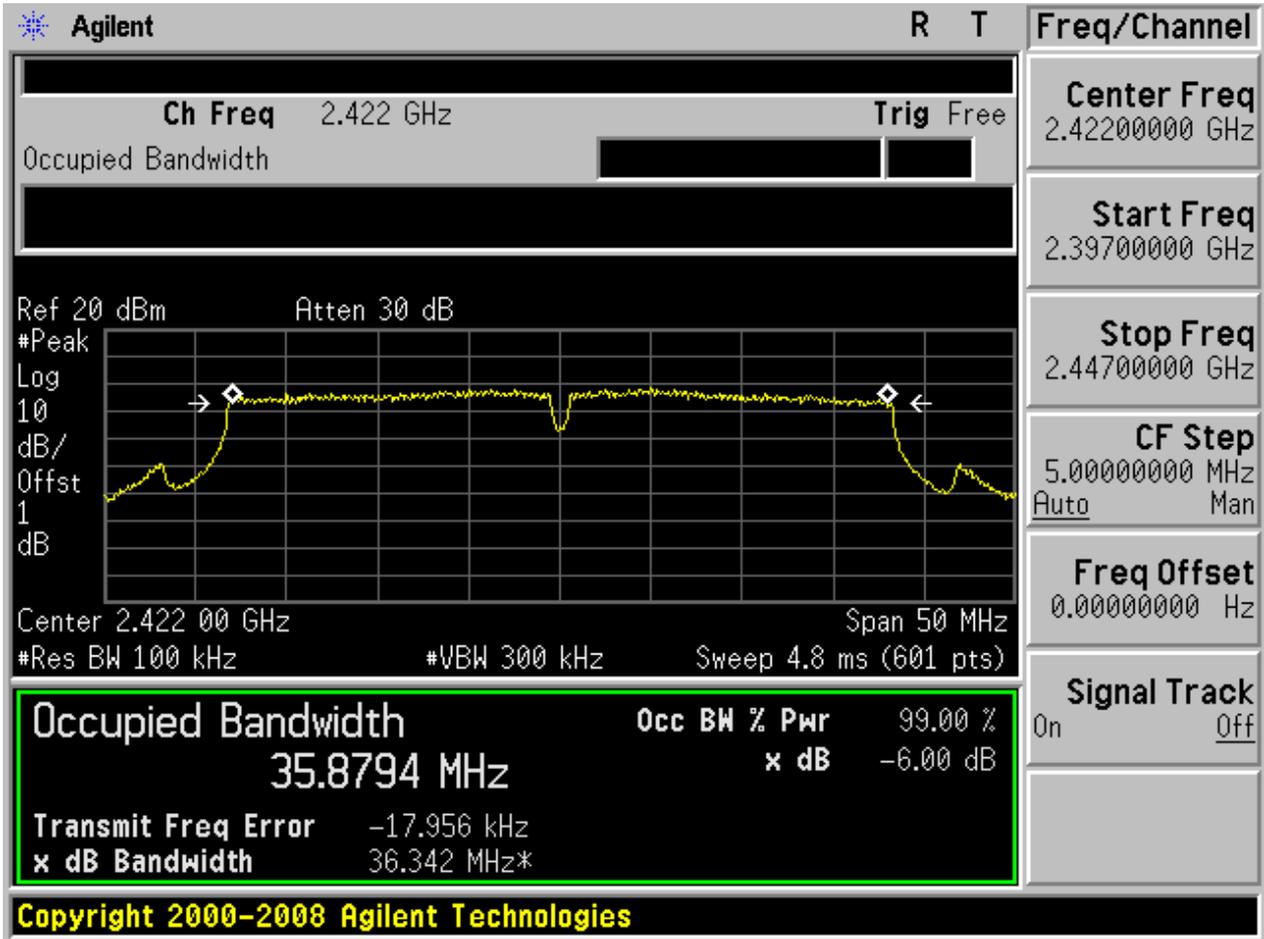




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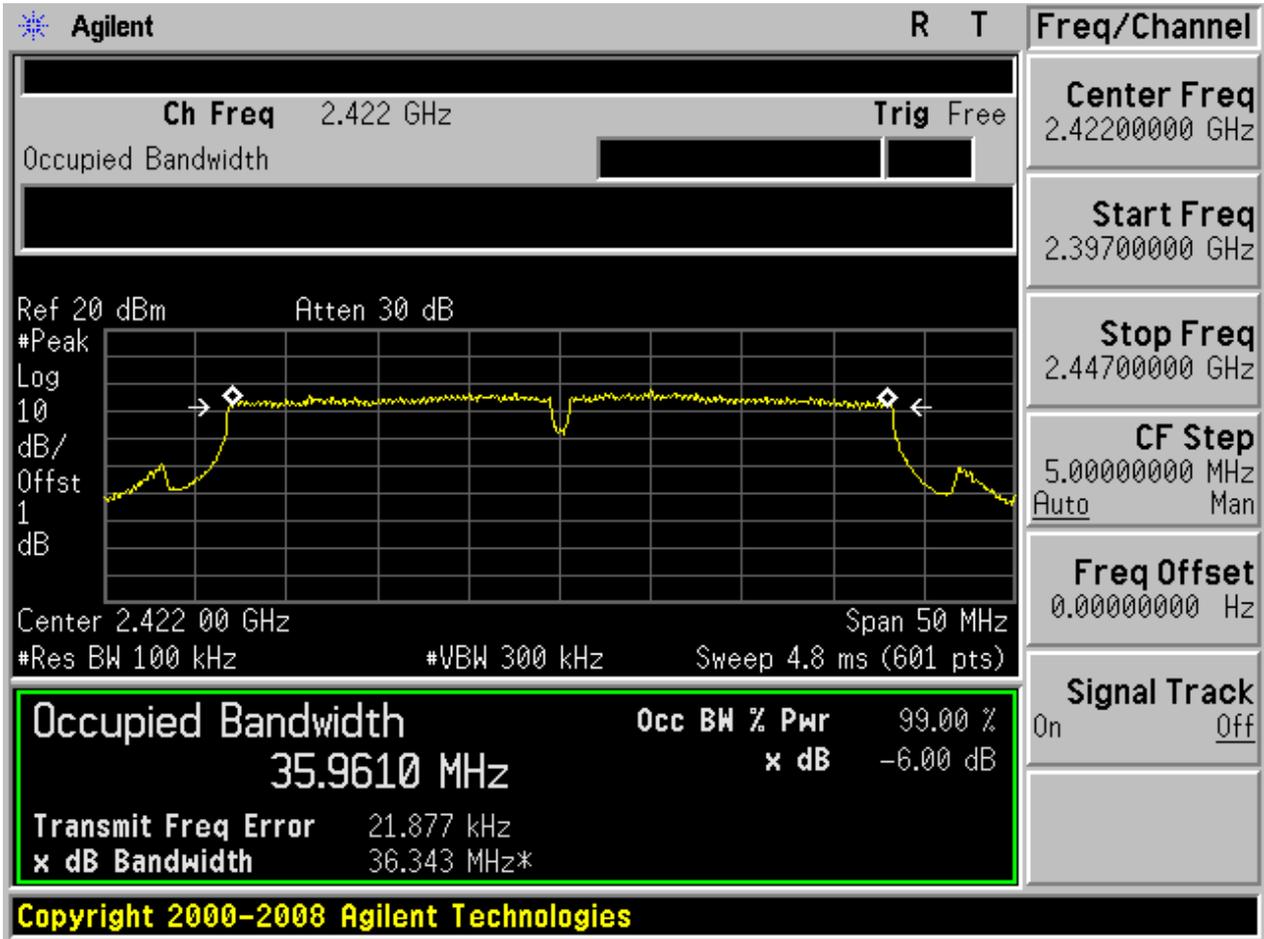


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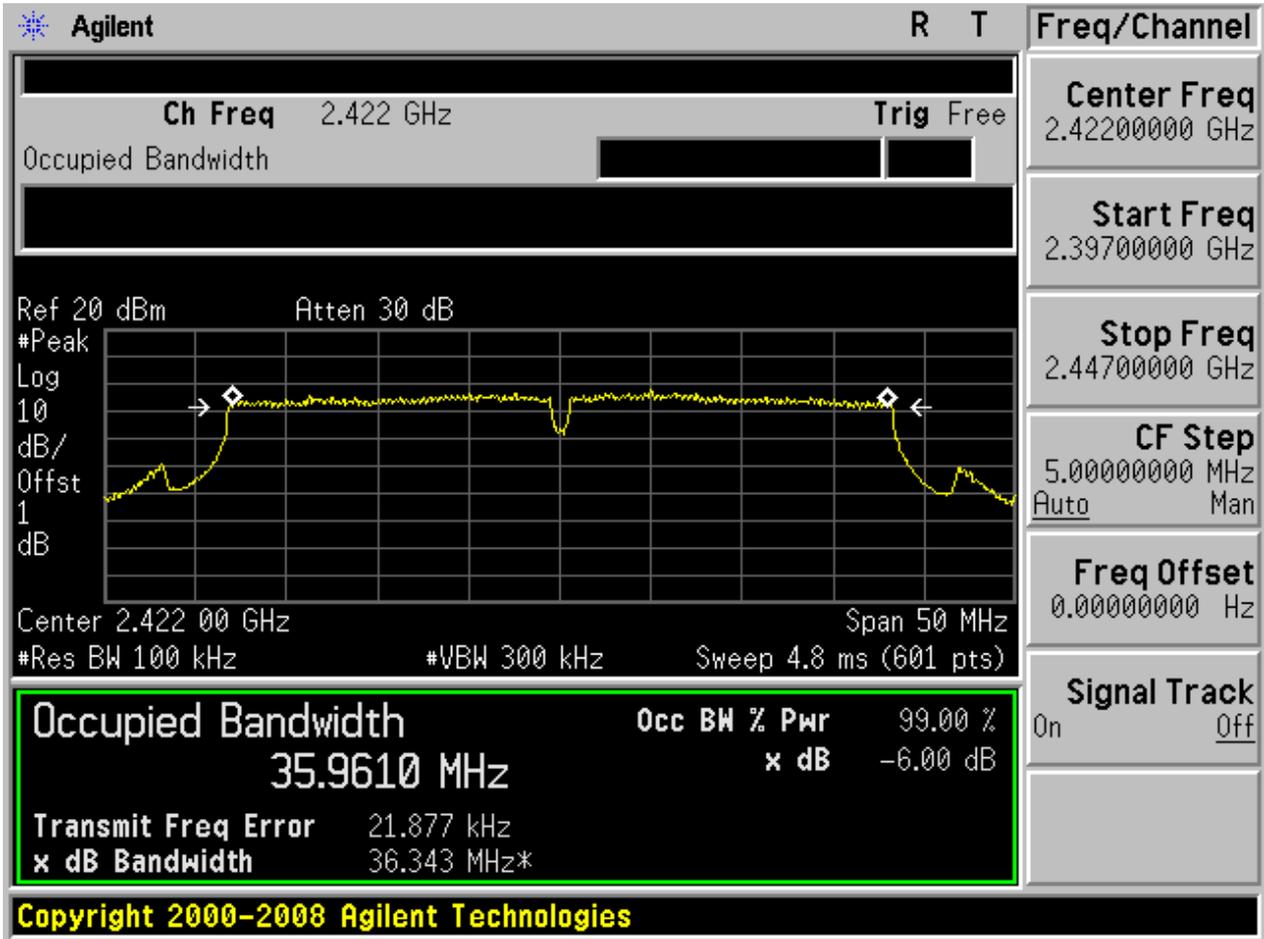


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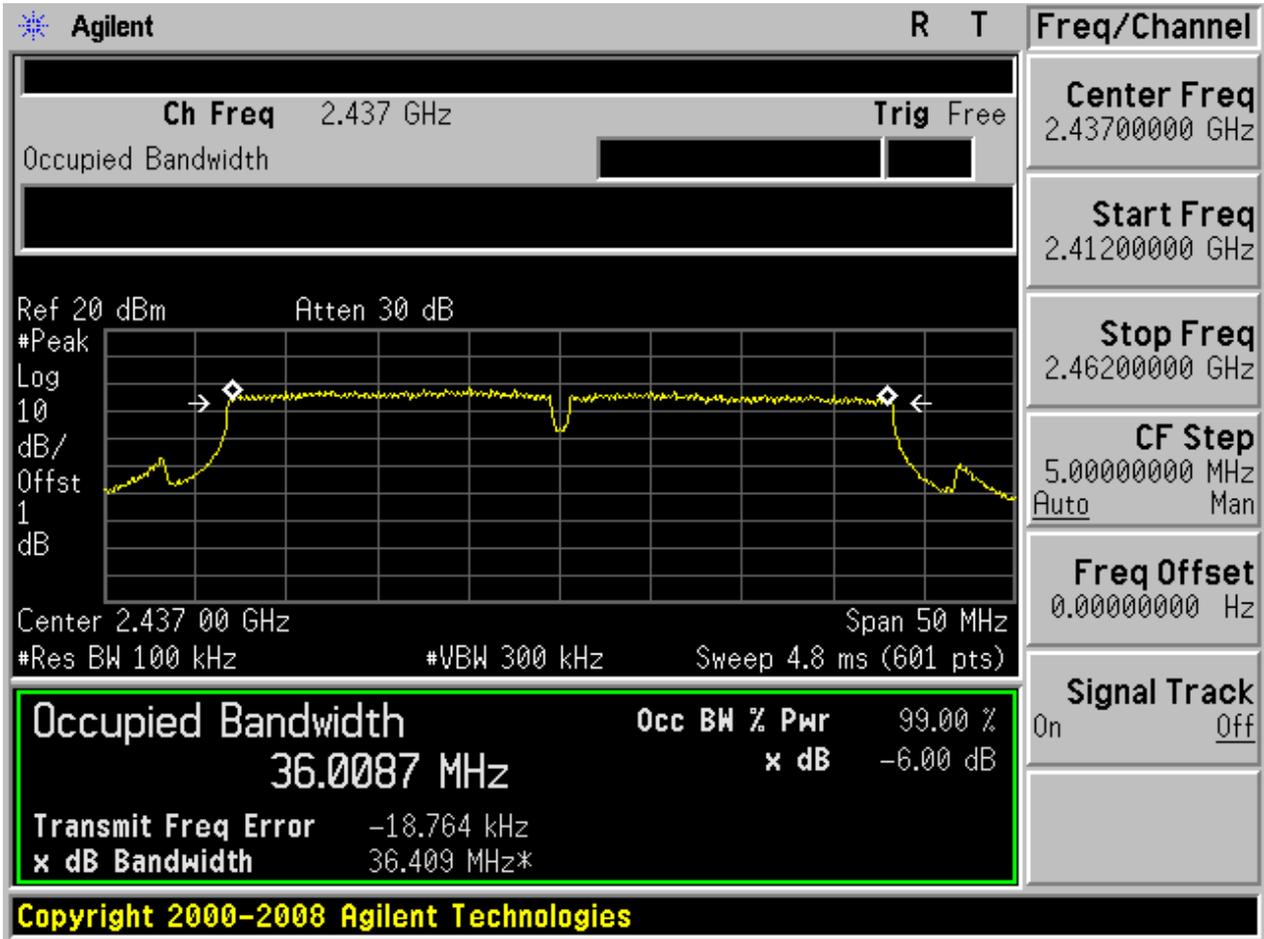


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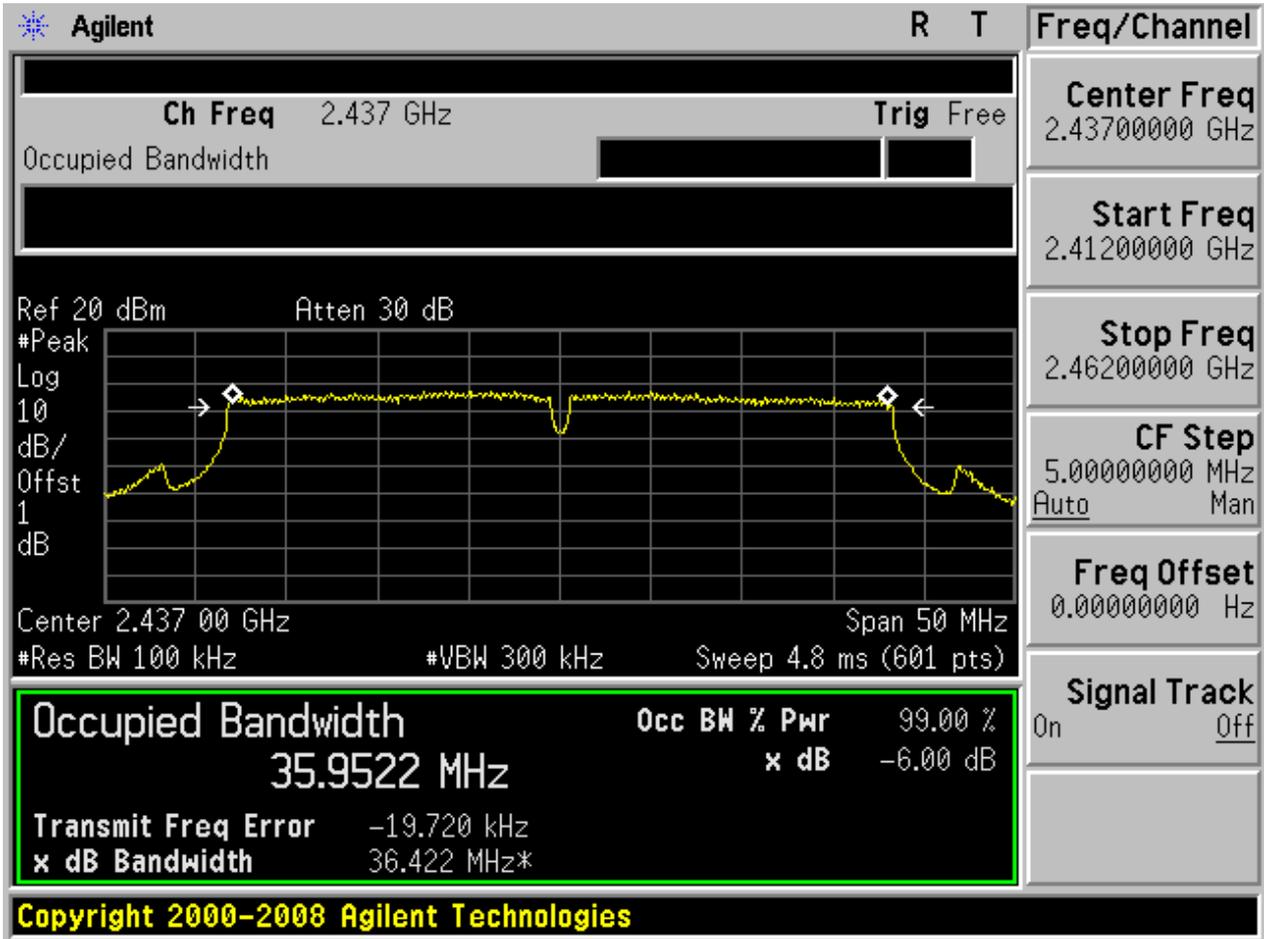




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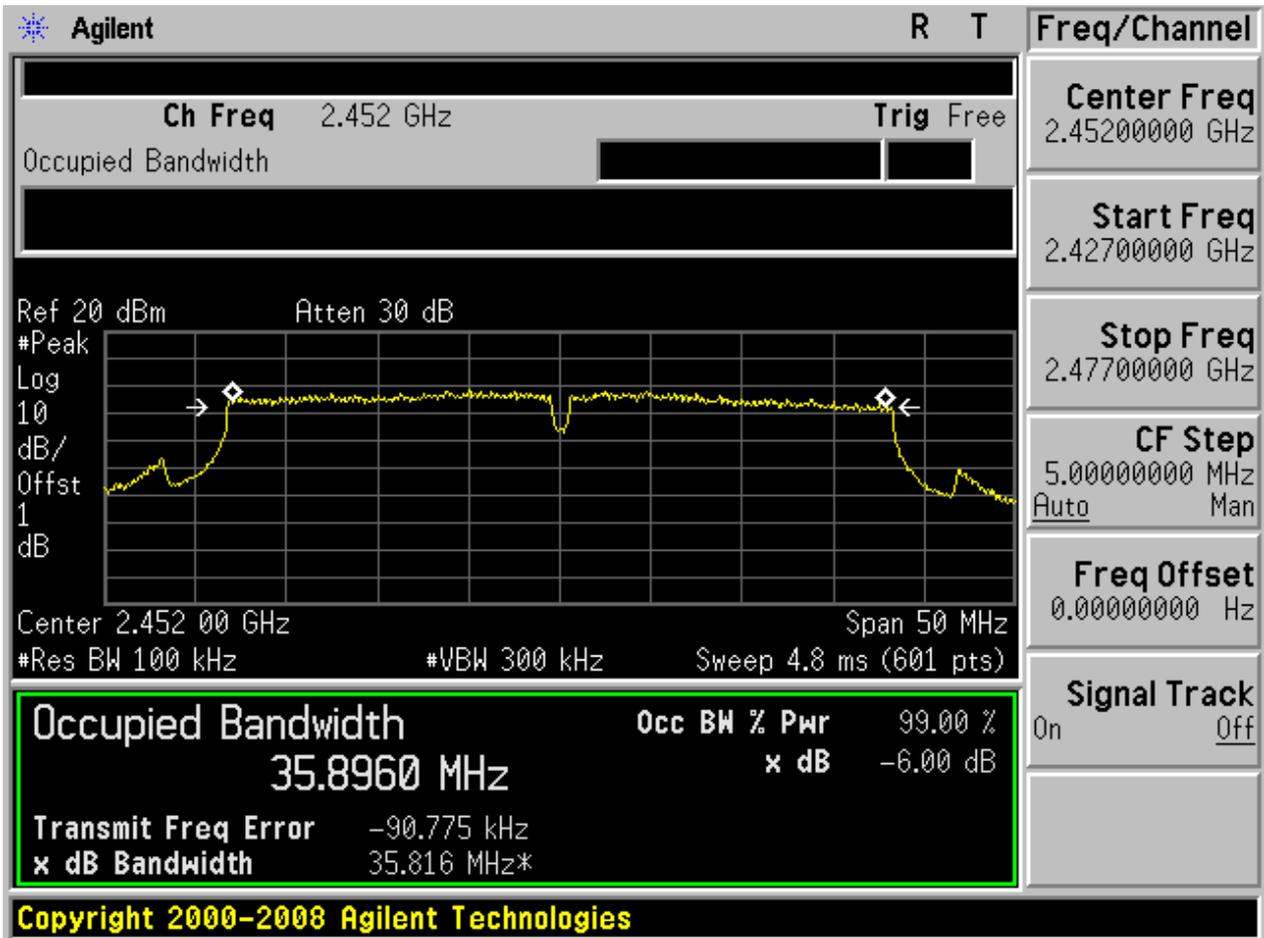


2.29 11N40\_M@Ant 2

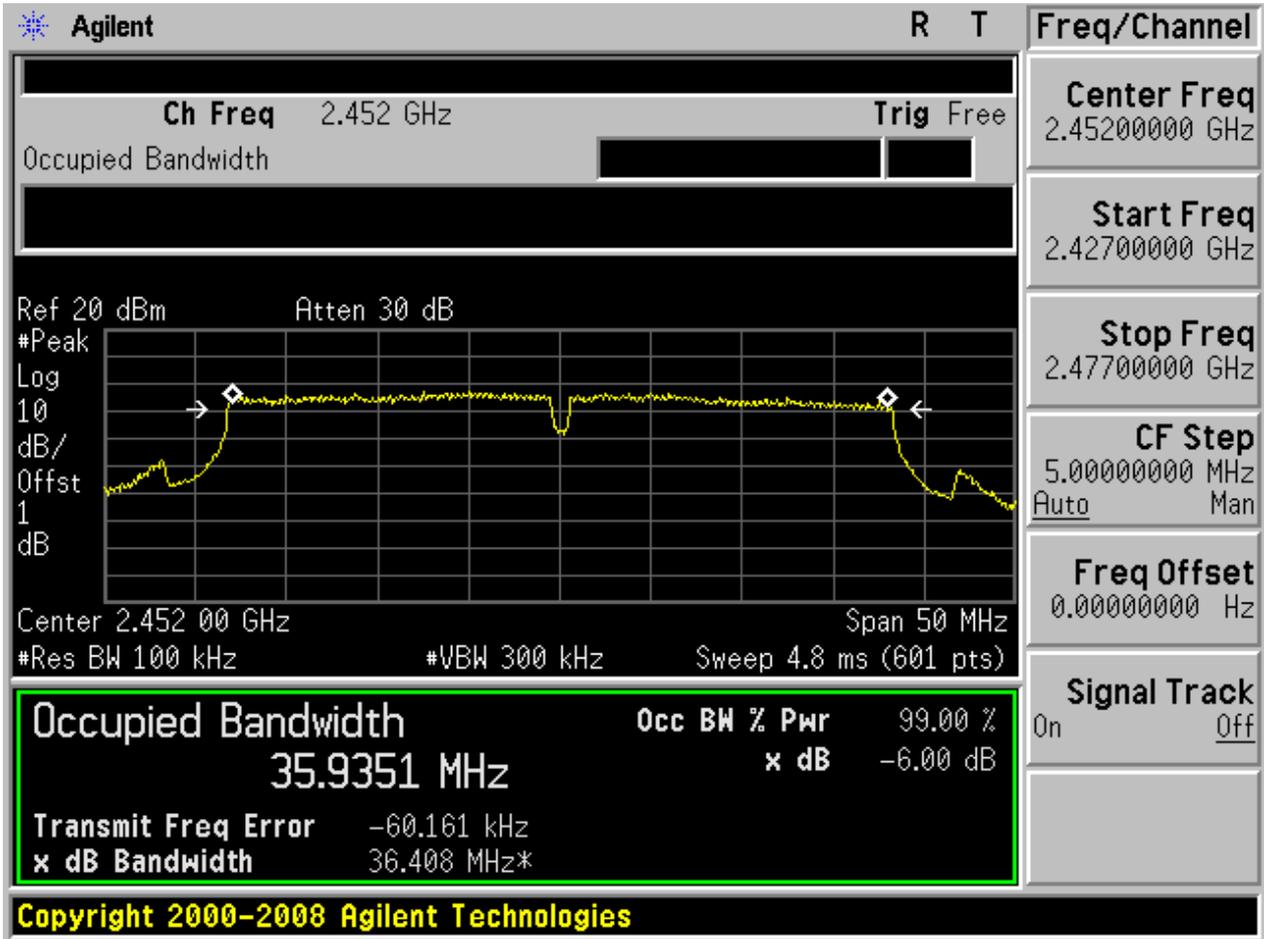




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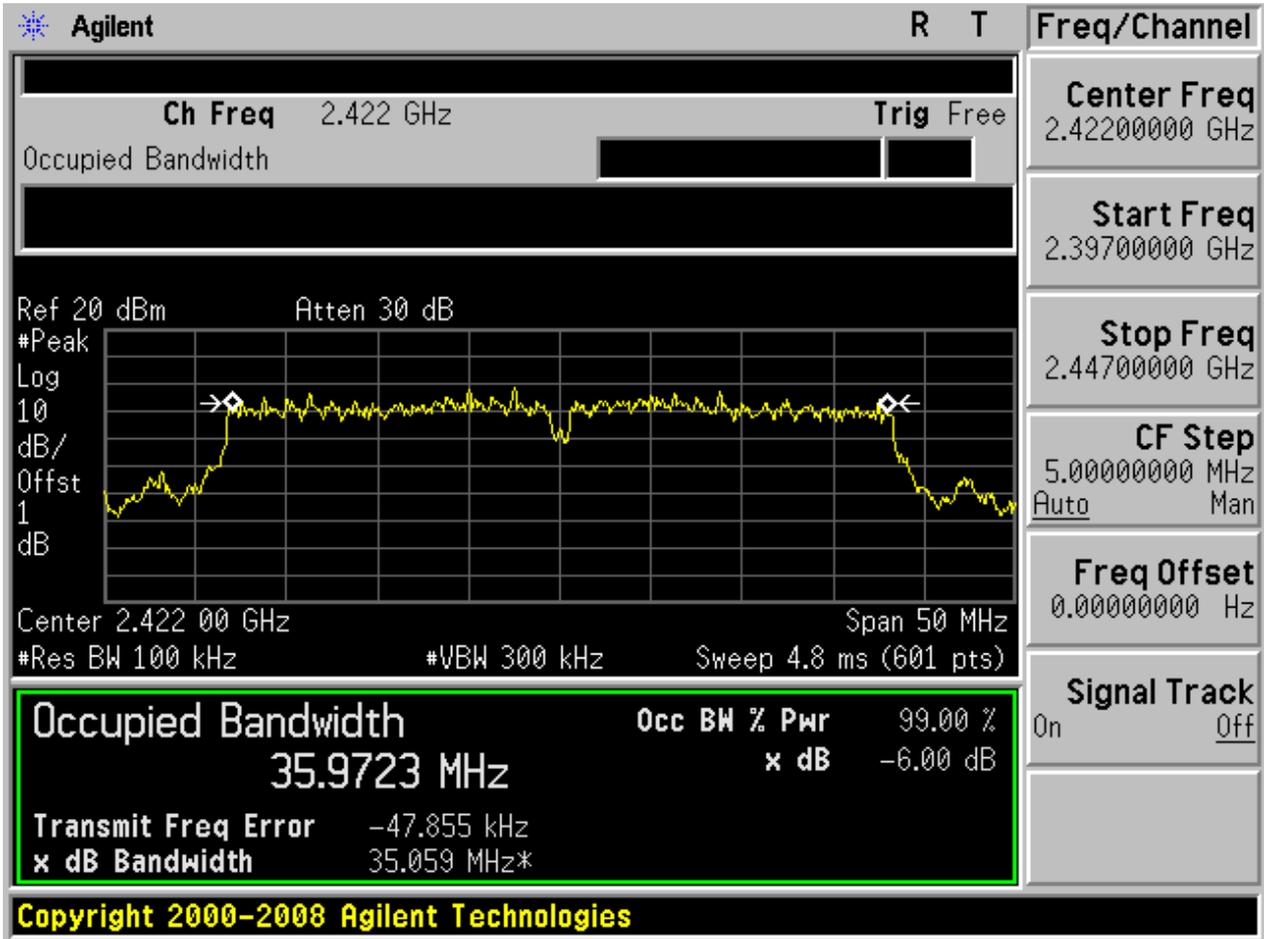


2.31 11N40\_H@Ant 2



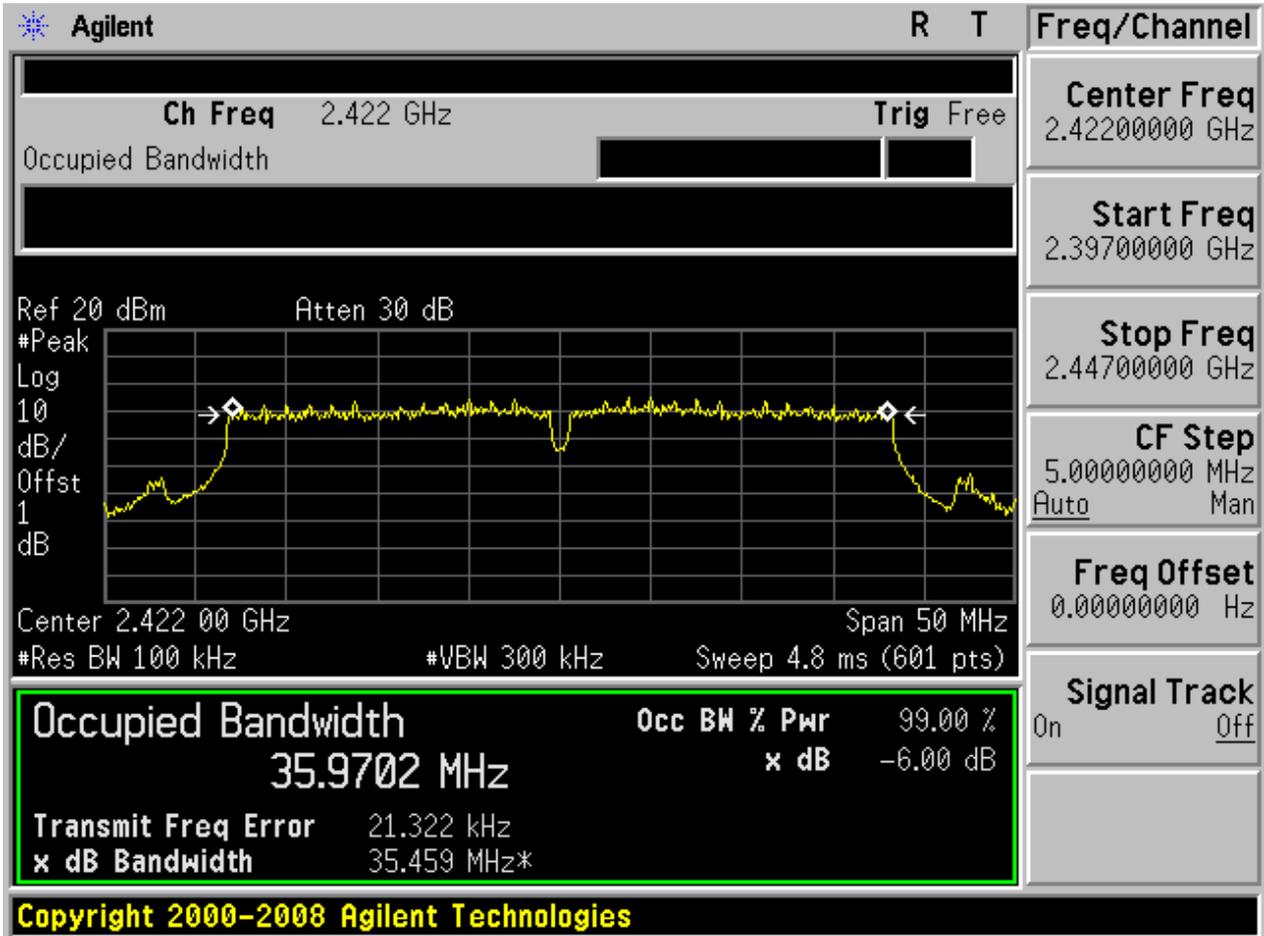


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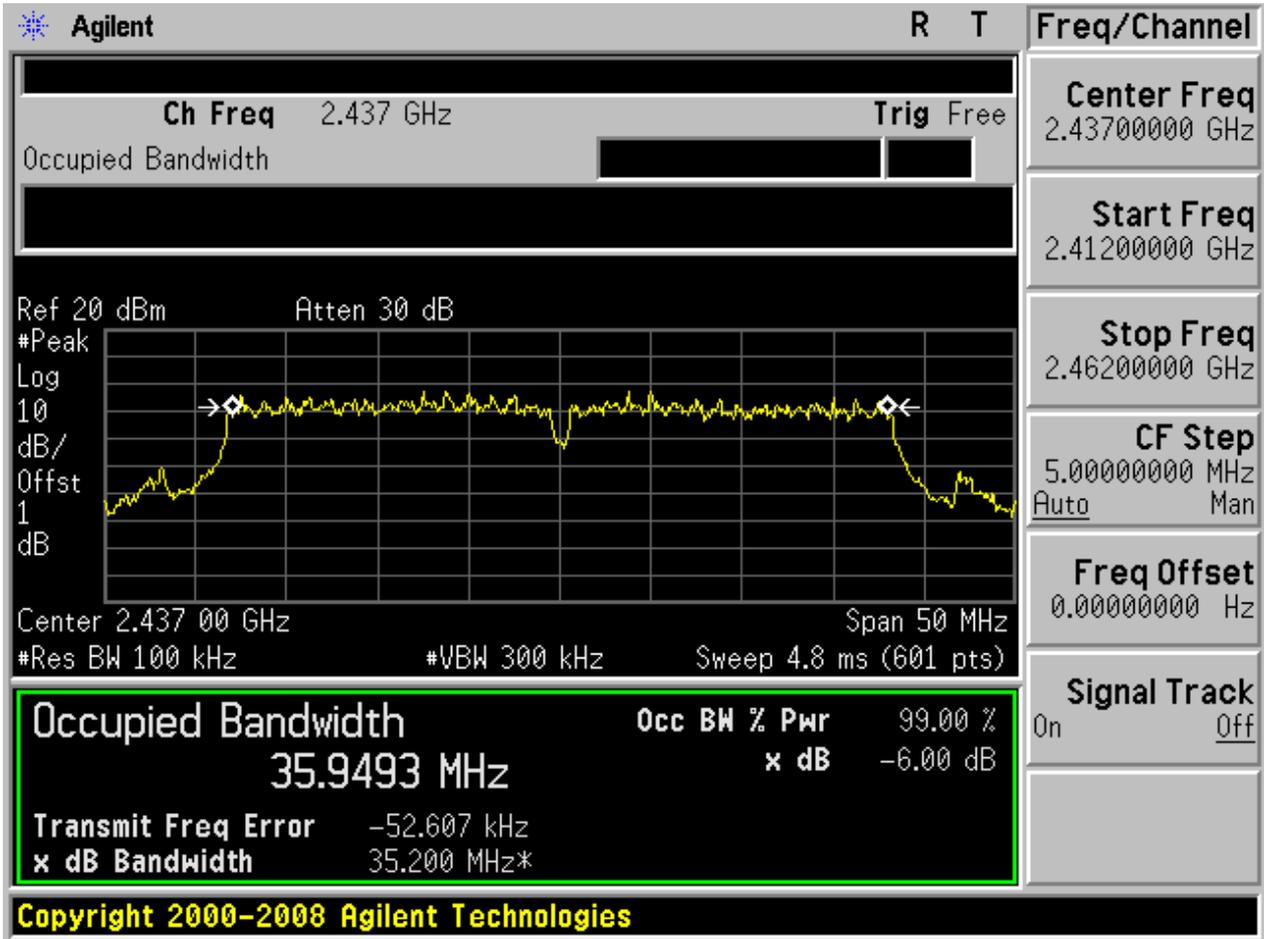


2.33 11N40m\_L@Ant 2

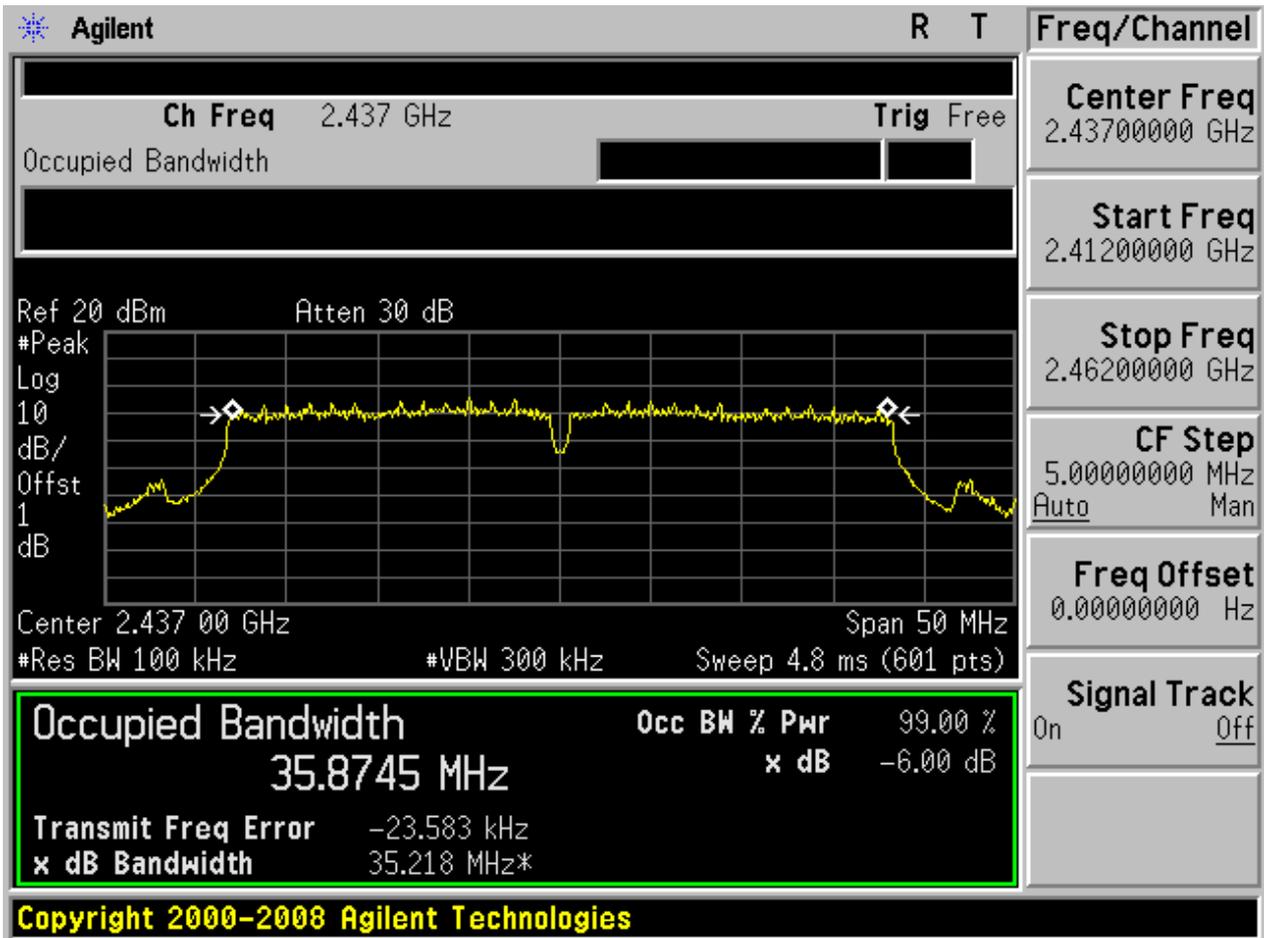




2.34 11N40m\_M@Ant 1

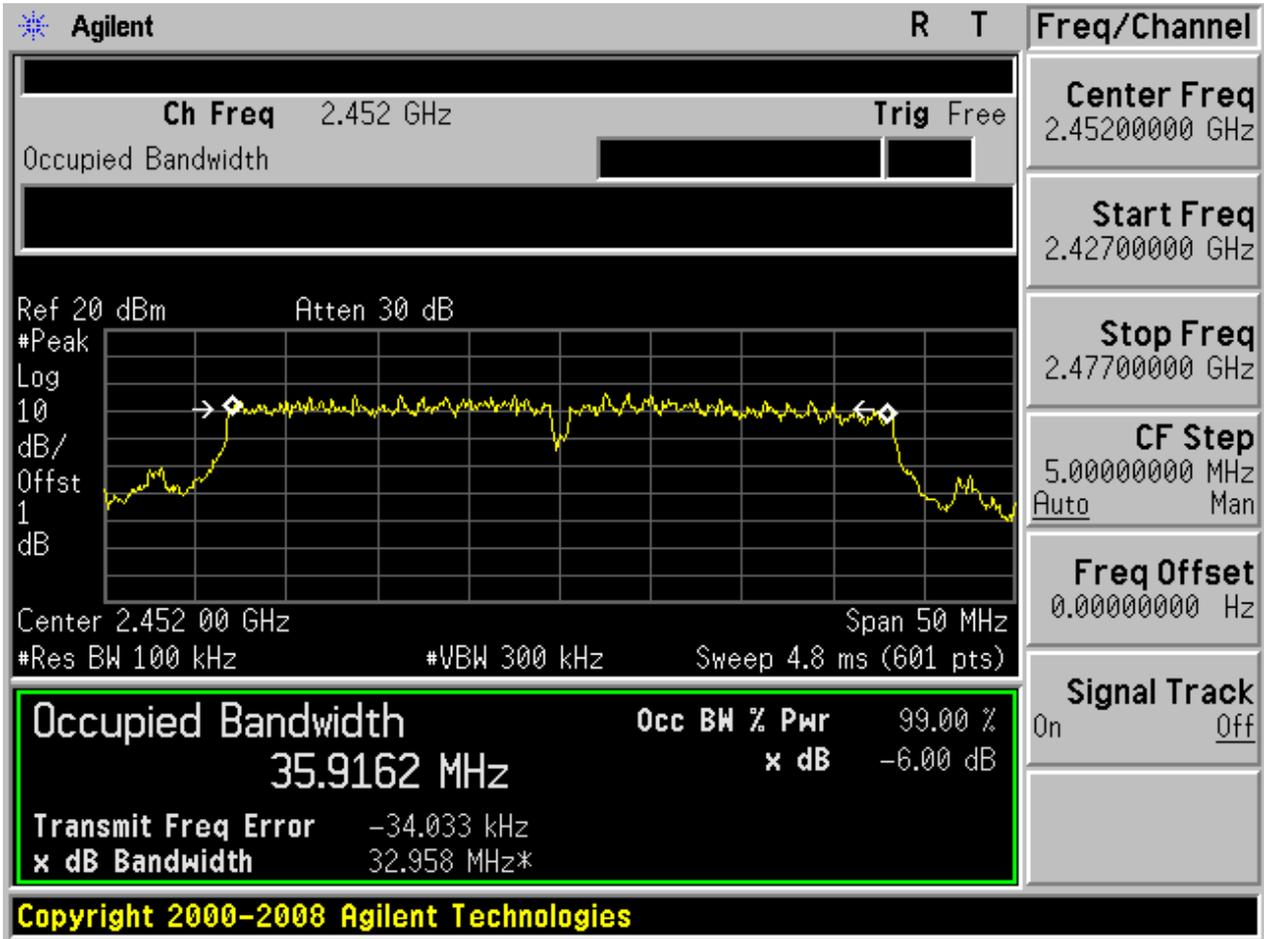


2.35 11N40m\_M@Ant 2

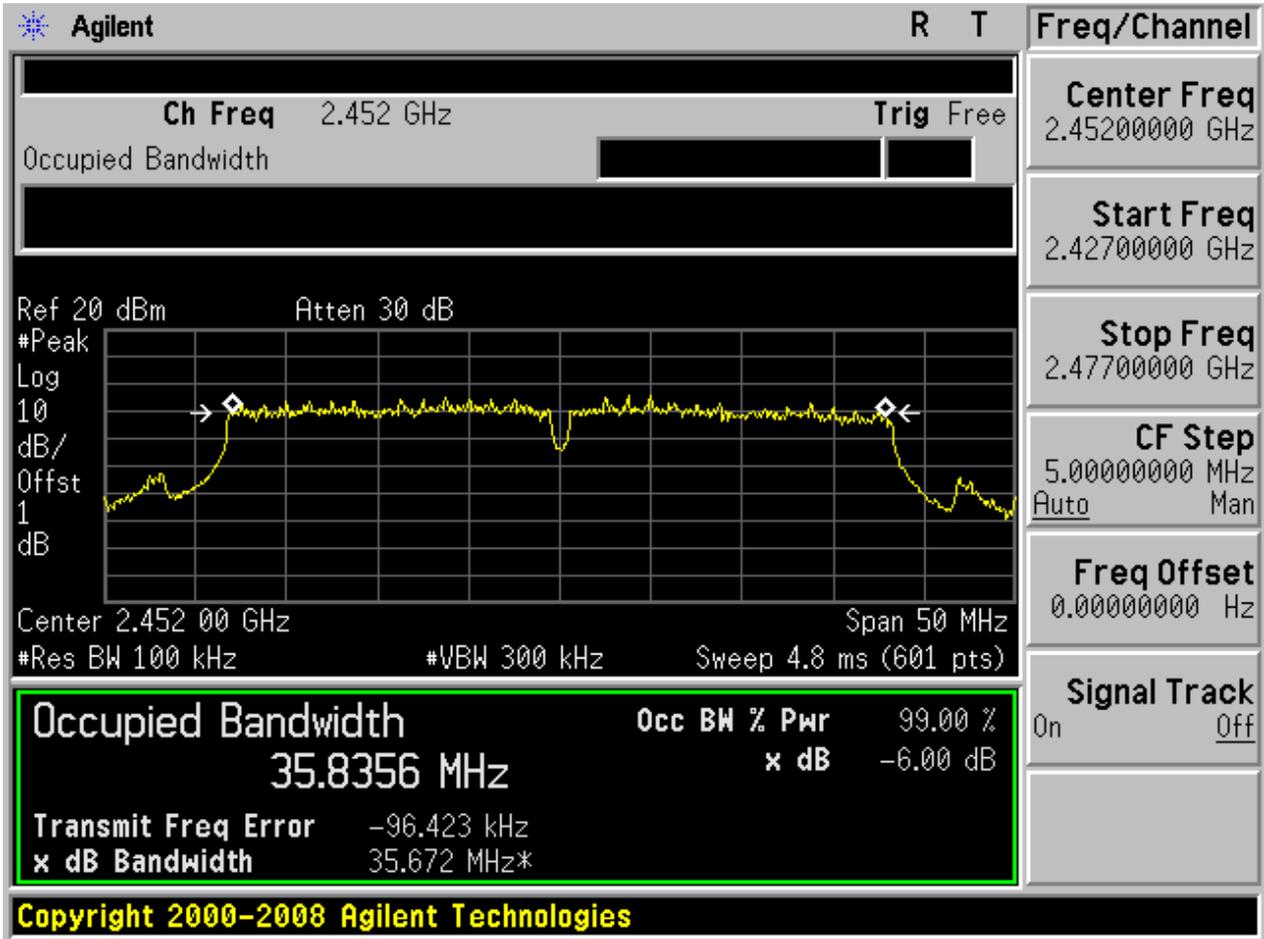




2.36 11N40m\_H@Ant 1



2.37 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	10.56	pass
11B	L	2412	Ant 2	10.49	pass
11B	M	2437	Ant 1	10.50	pass
11B	M	2437	Ant 2	10.53	pass
11B	H	2462	Ant 1	10.56	pass
11B	H	2462	Ant 2	10.51	pass
11G	L	2412	Ant 1	16.48	pass
11G	L	2412	Ant 2	16.46	pass
11G	M	2437	Ant 1	16.47	pass
11G	M	2437	Ant 2	16.46	pass
11G	H	2462	Ant 1	16.41	pass
11G	H	2462	Ant 2	16.46	pass
11N20	L	2412	Ant 1	17.56	pass
11N20	L	2412	Ant 2	17.63	pass
11N20	M	2437	Ant 1	17.60	pass
11N20	M	2437	Ant 2	17.62	pass
11N20	H	2462	Ant 1	17.58	pass
11N20	H	2462	Ant 2	17.62	pass
11N20m	L	2412	Ant 1	17.61	pass
11N20m	L	2412	Ant 2	17.58	pass
11N20m	M	2437	Ant 1	17.63	pass
11N20m	M	2437	Ant 2	17.62	pass
11N20m	H	2462	Ant 1	17.50	pass
11N20m	H	2462	Ant 2	17.54	pass
11N40	L	2422	Ant 1	35.90	pass
11N40	L	2422	Ant 2	35.91	pass
11N40	M	2437	Ant 1	36.06	pass
11N40	M	2437	Ant 2	35.95	pass
11N40	H	2452	Ant 1	35.88	pass
11N40	H	2452	Ant 2	35.96	pass
11N40m	L	2422	Ant 1	35.92	pass
11N40m	L	2422	Ant 2	35.95	pass
11N40m	M	2437	Ant 1	35.97	pass
11N40m	M	2437	Ant 2	35.87	pass



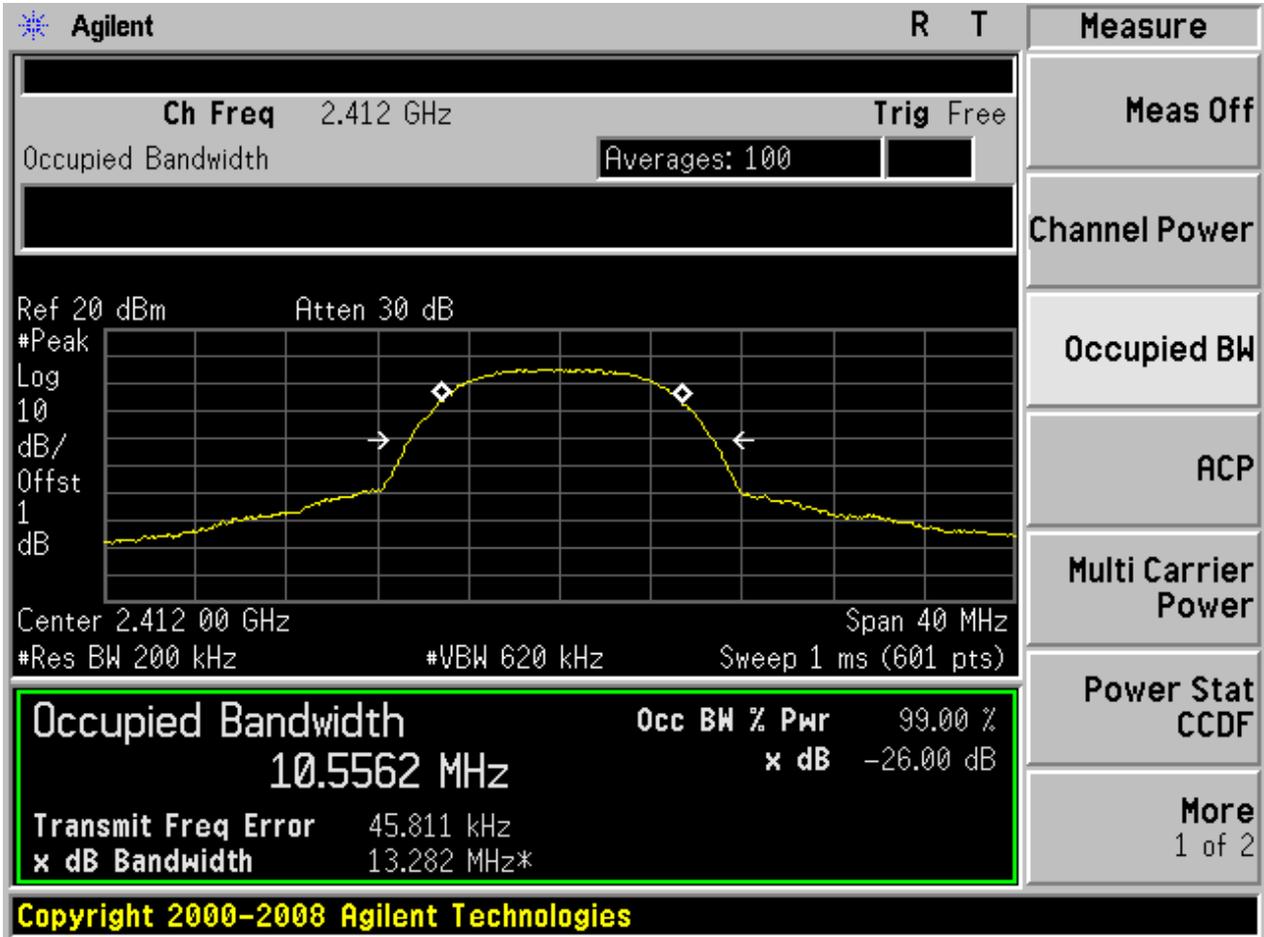
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Test Mode	Test Channel	Frequency[MHz]	Ant	Occupied Bandwidth [MHz]	Verdict
11N40m	H	2452	Ant 1	35.79	pass
11N40m	H	2452	Ant 2	35.82	pass

Part II - Test Plots

2.1 11B\_L@Ant 1





2.2 11B\_L@Ant 2

Agilent R T

**Ch Freq** 2.412 GHz **Trig** Free

Occupied Bandwidth Averages: 100

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Ref 20 dBm Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
1  
dB

Center 2.412 00 GHz Span 40 MHz

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

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
10.4927 MHz	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b> 35.909 kHz	
<b>x dB Bandwidth</b> 13.307 MHz*	

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2



2.3 11B\_M@Ant 1

Agilent R T

**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)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
10.5031 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-12.710 kHz	
<b>x dB Bandwidth</b>	13.193 MHz*	

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2



2.4 11B\_M@Ant 2

Agilent R T

**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)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
10.5347 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	9.477 kHz	
<b>x dB Bandwidth</b>	13.244 MHz*	

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**Measure**

Meas Off

Channel Power

Occupied BW

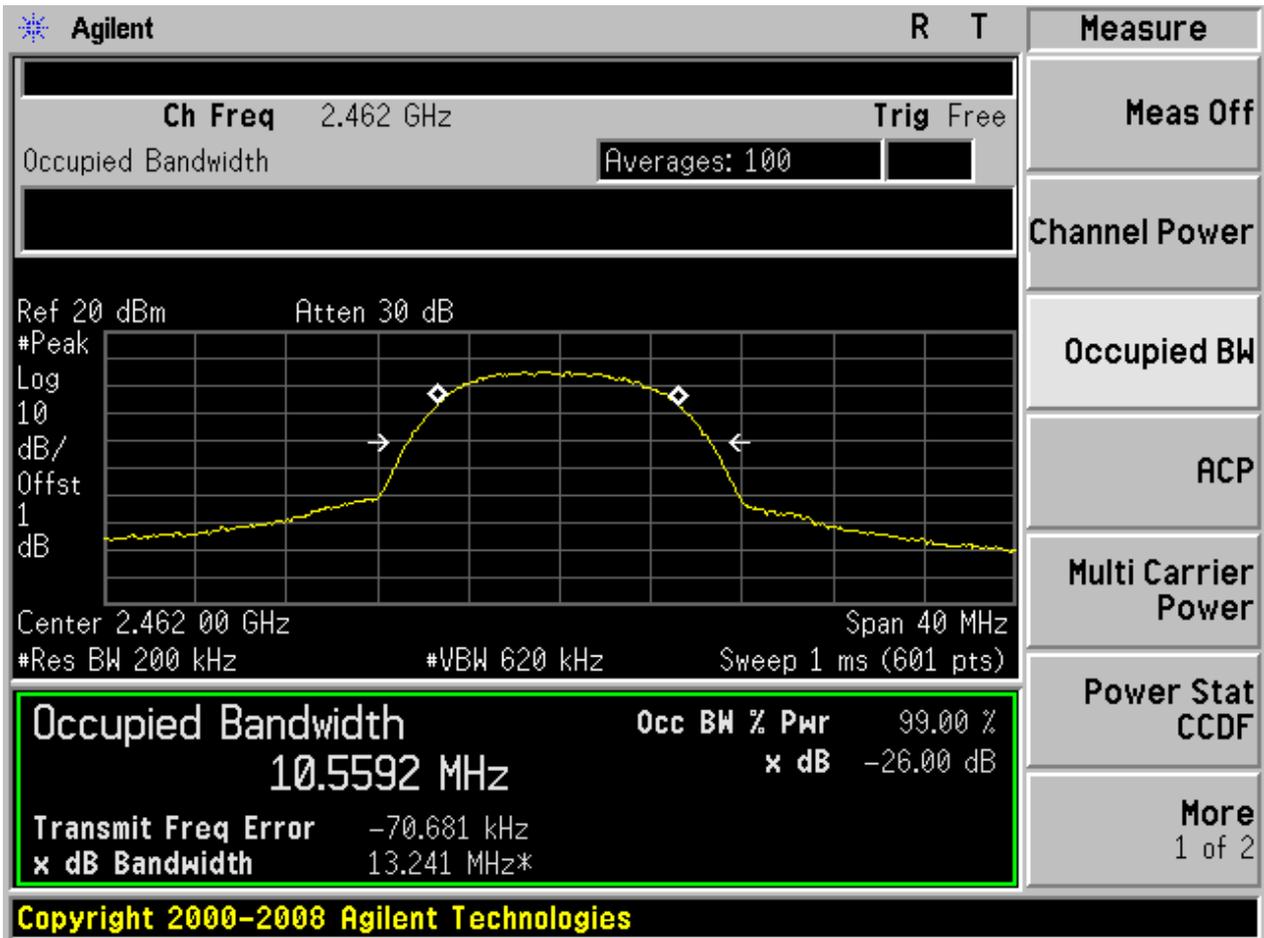
ACP

Multi Carrier Power

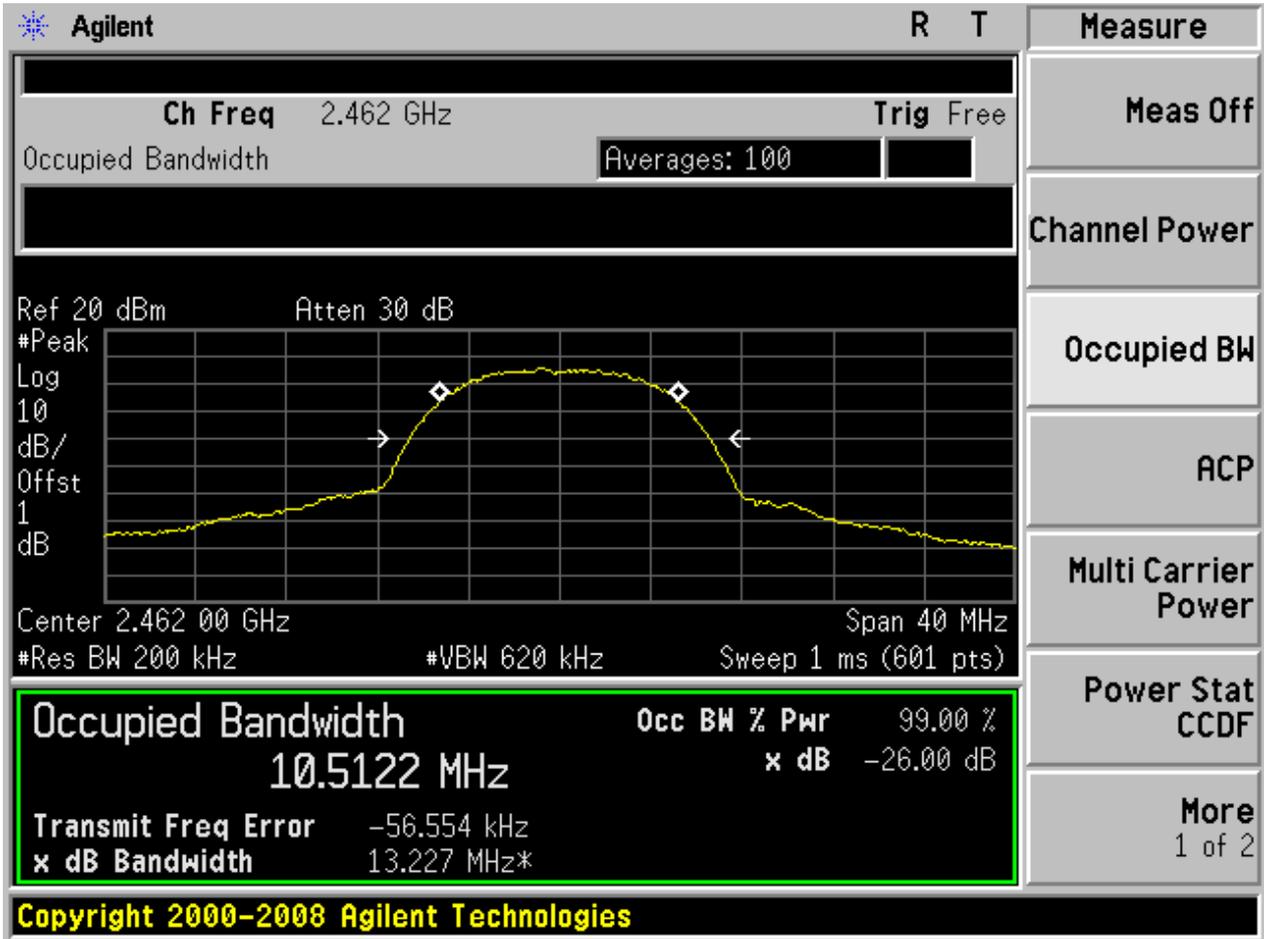
Power Stat CCDF

More  
1 of 2

2.5 11B\_H@Ant 1

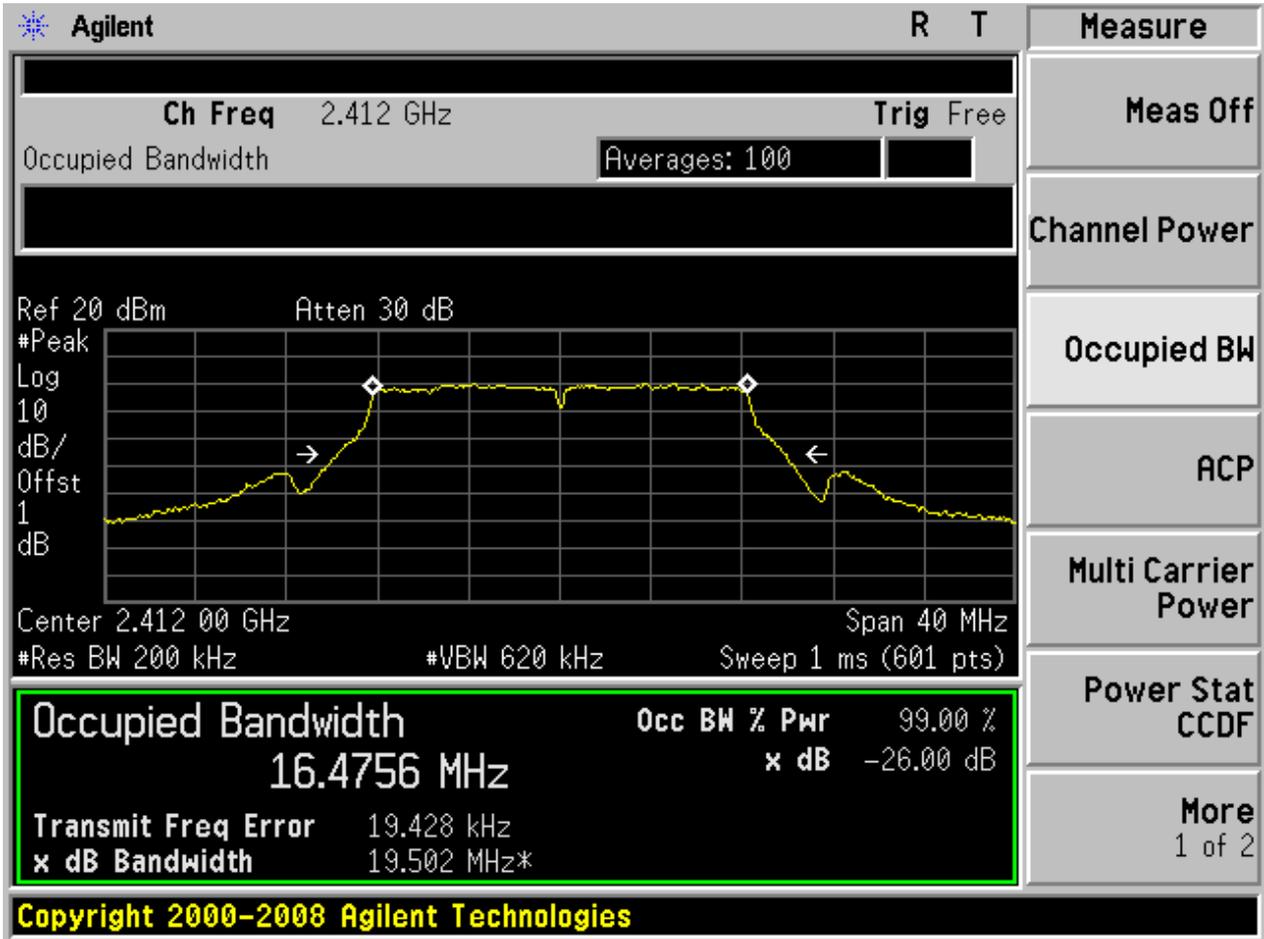


2.6 11B\_H@Ant 2

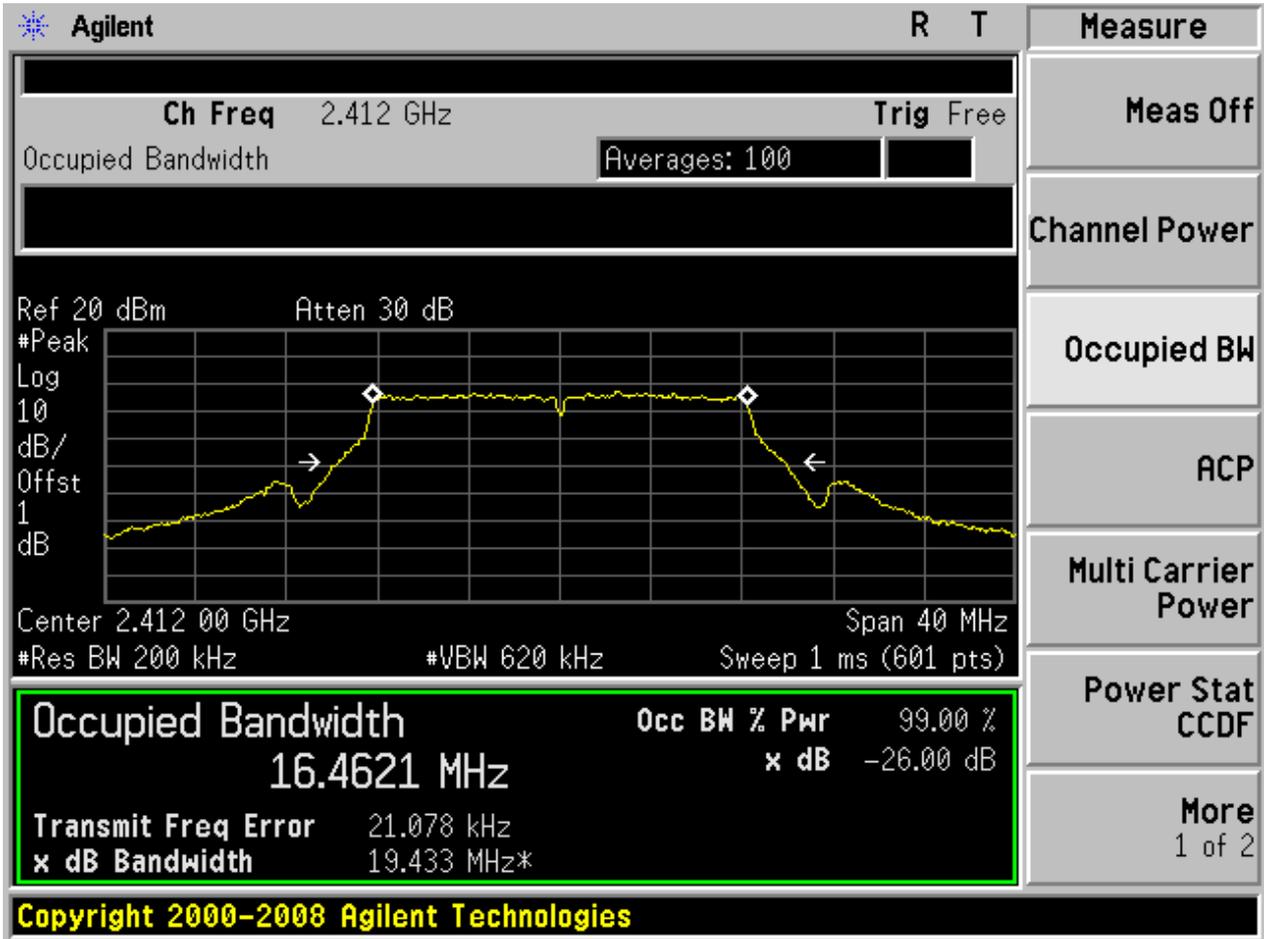




2.7 11G\_L@Ant 1

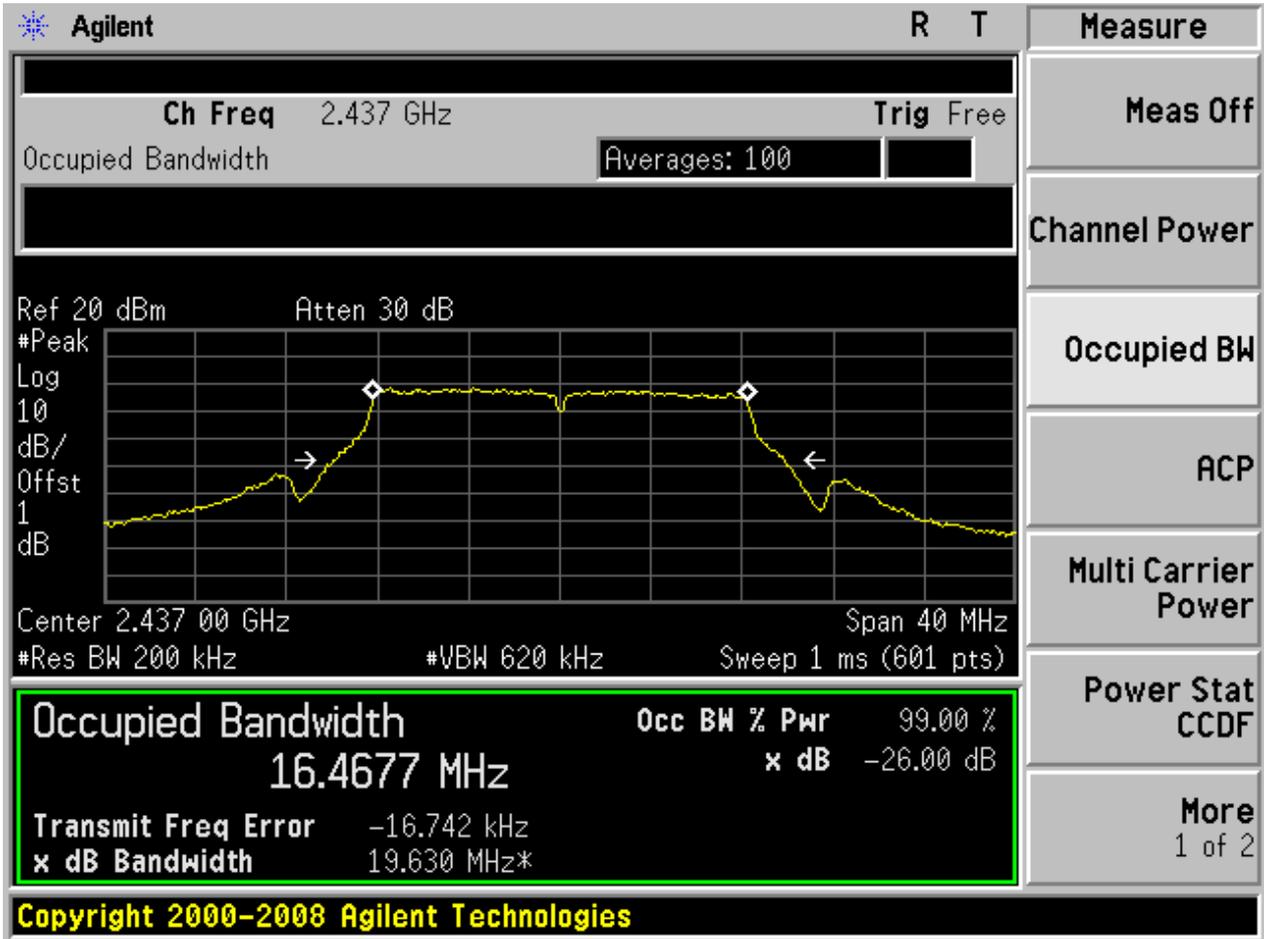


2.8 11G\_L@Ant 2

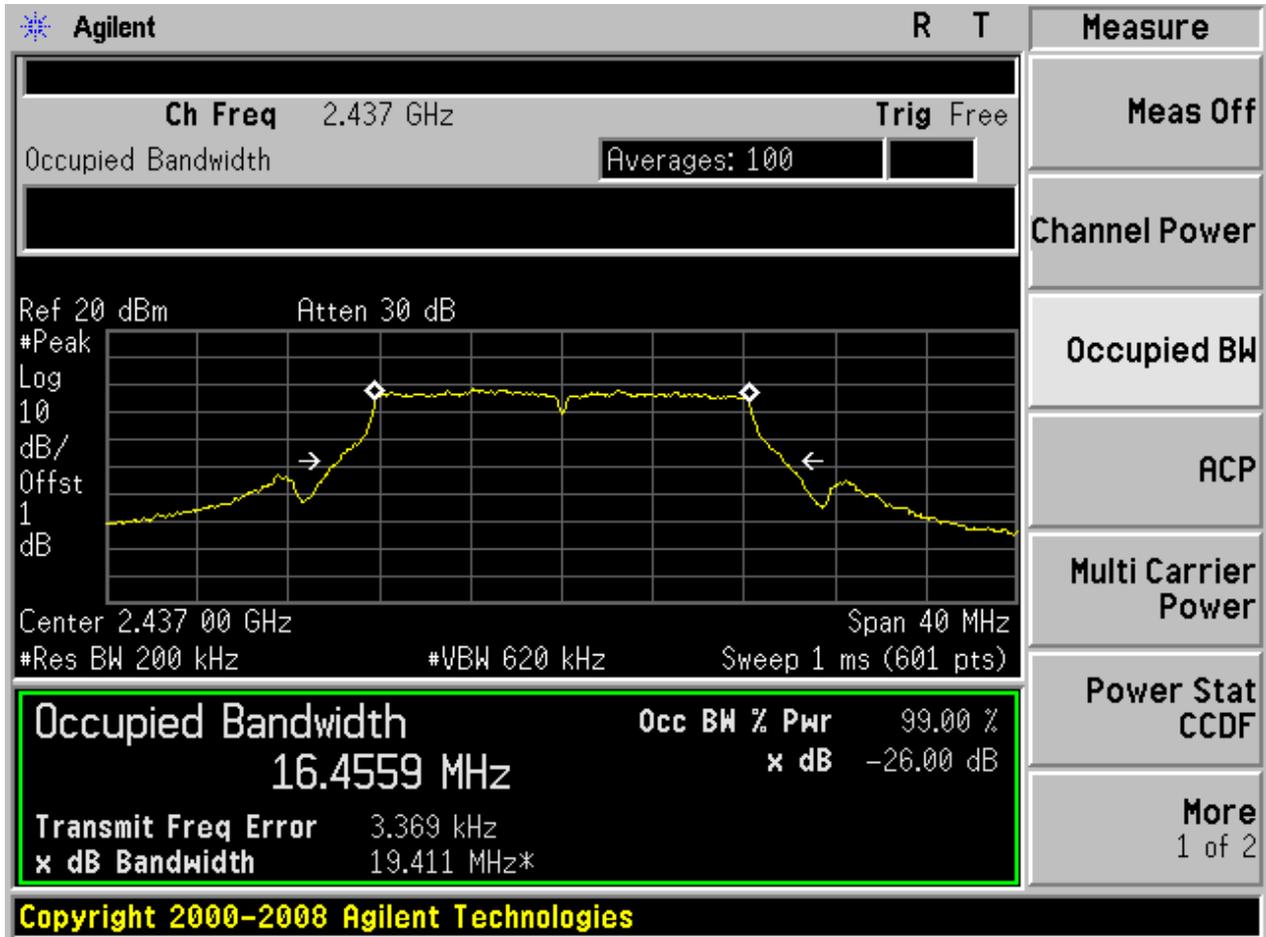




2.9 11G\_M@Ant 1

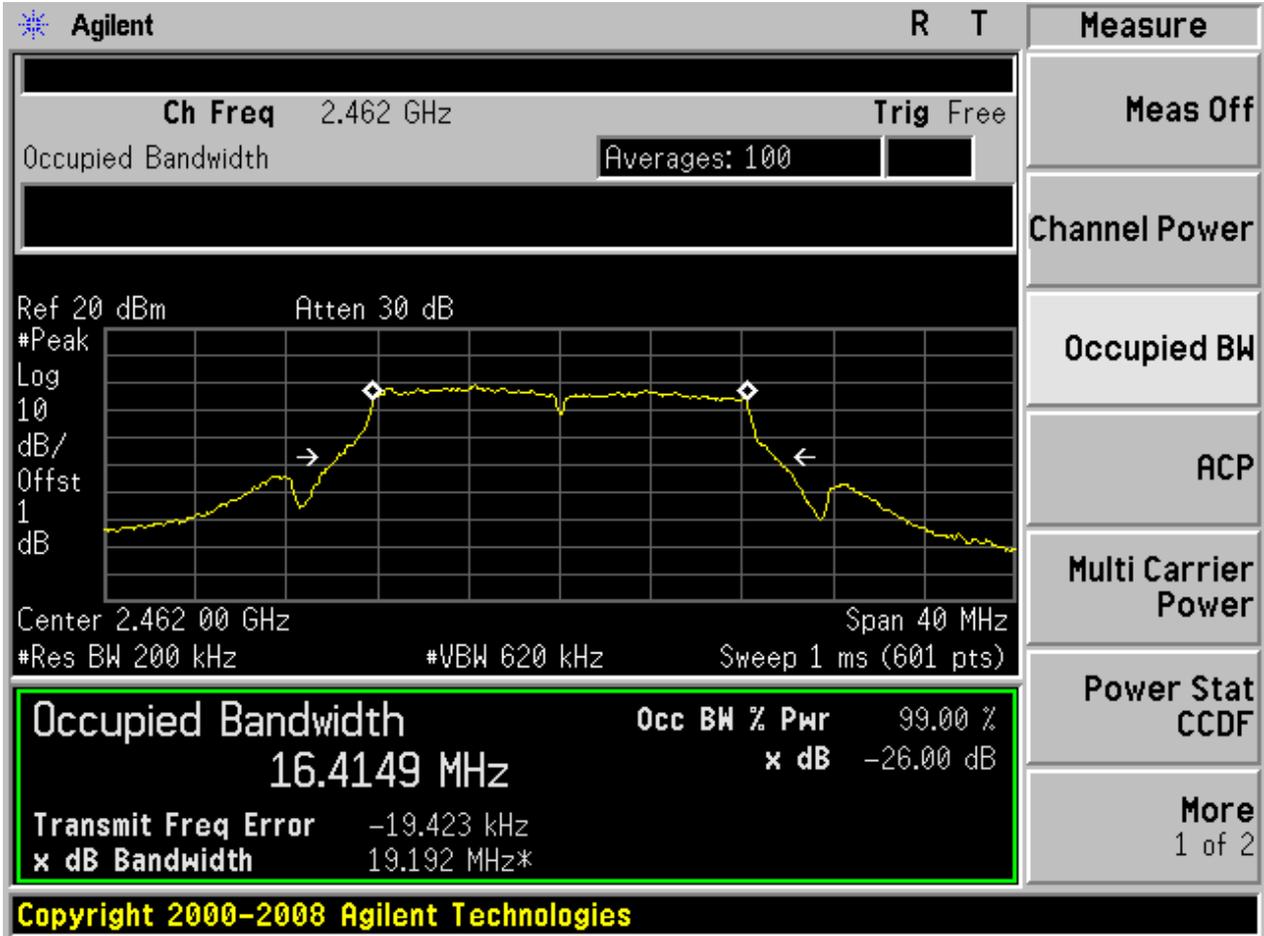


2.10 11G\_M@Ant 2

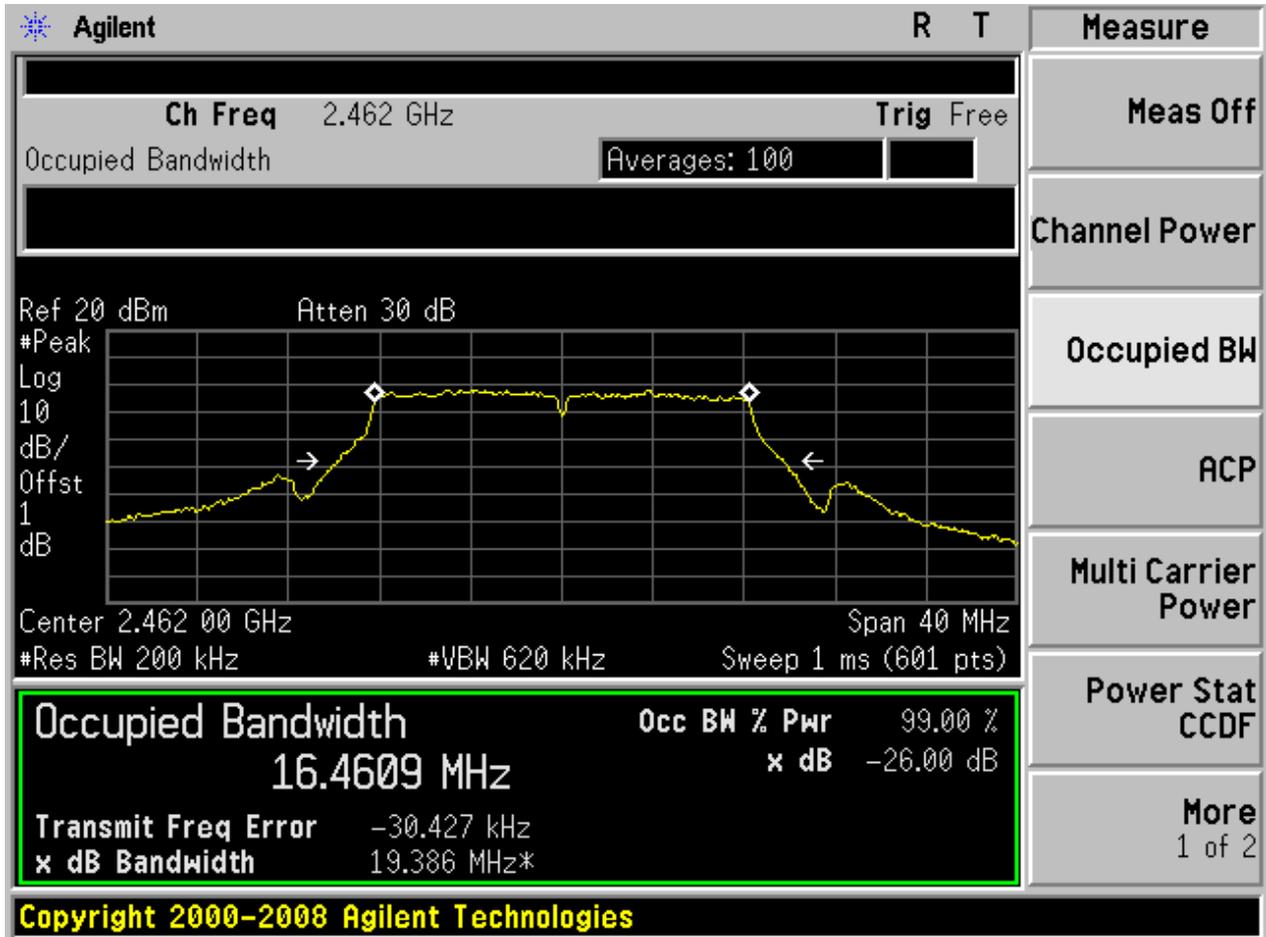




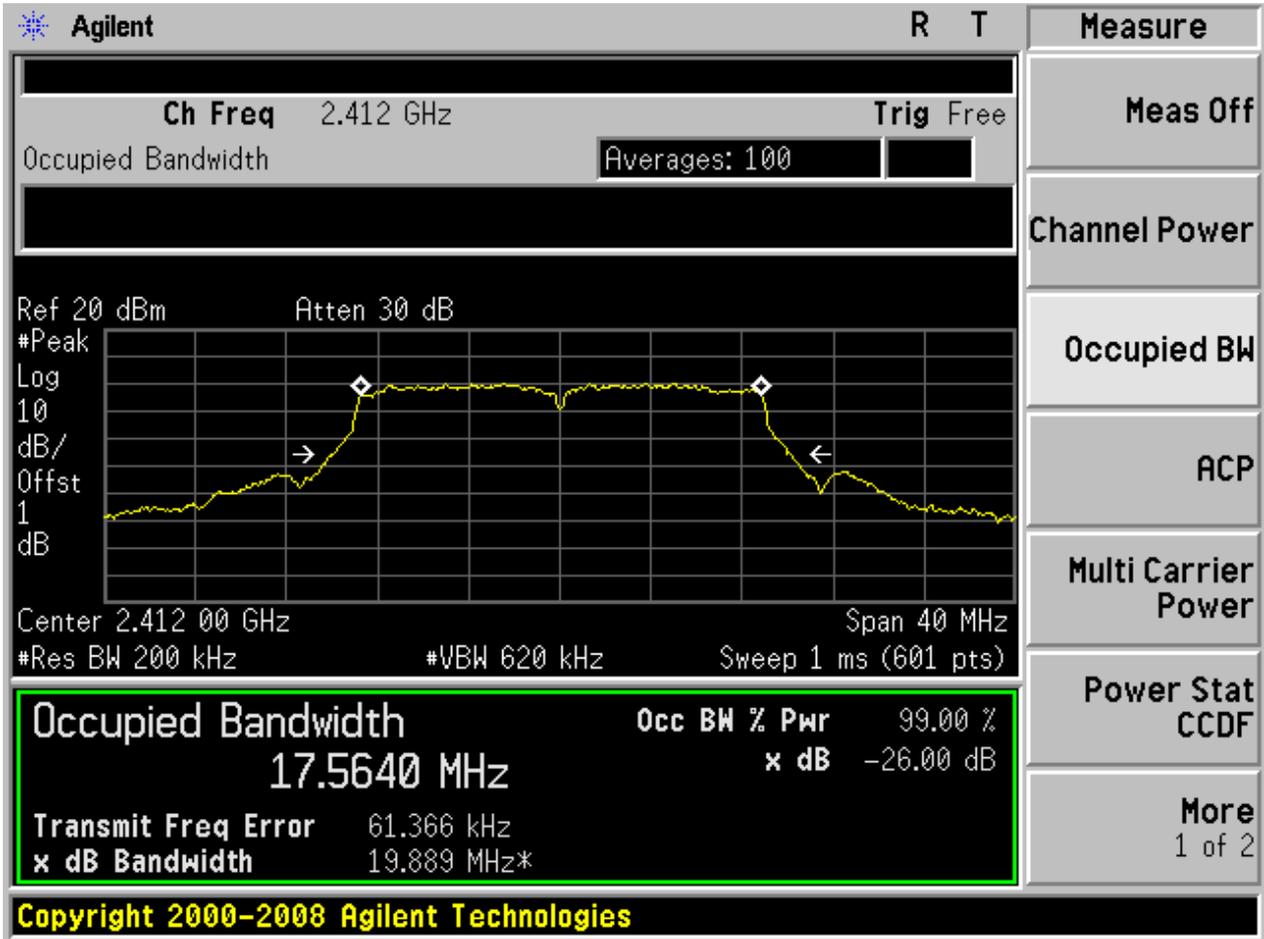
2.11 11G\_H@Ant 1



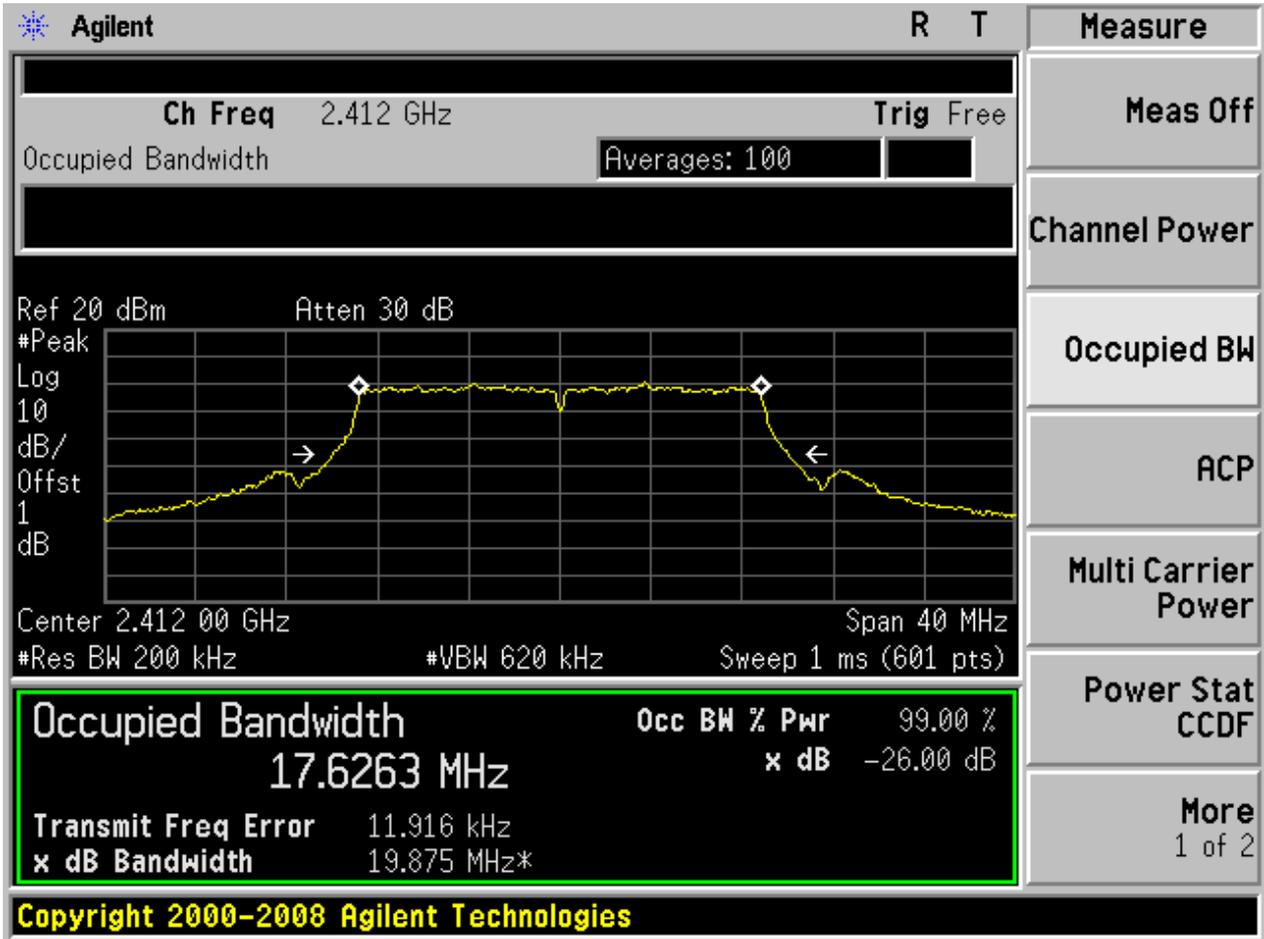
2.12 11G\_H@Ant 2



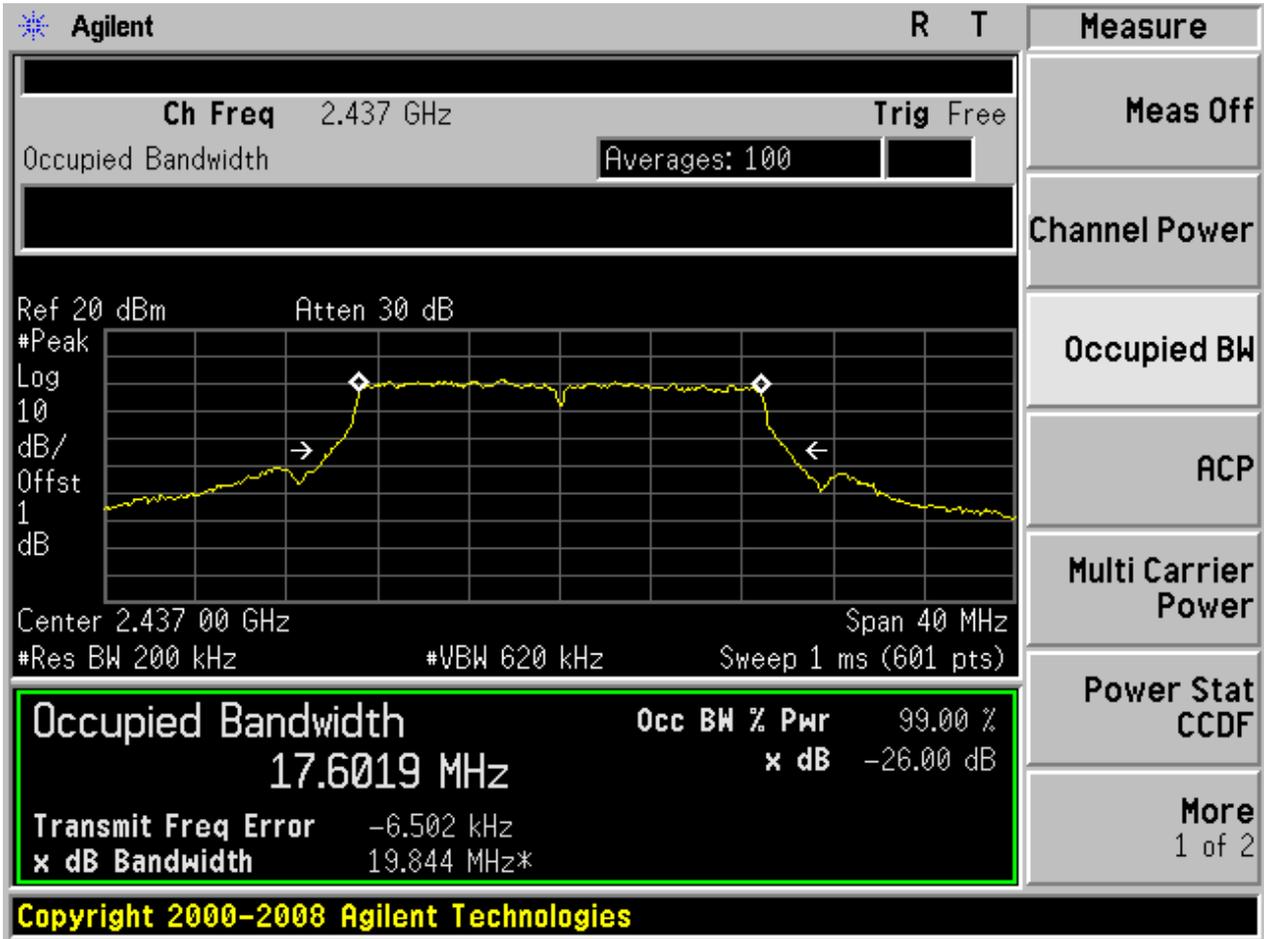
2.13 11N20\_L@Ant 1



2.14 11N20\_L@Ant 2



2.15 11N20\_M@Ant 1





2.16 11N20\_M@Ant 2

Agilent R T

**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)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
17.6198 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-21.897 kHz	
<b>x dB Bandwidth</b>	19.983 MHz*	

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

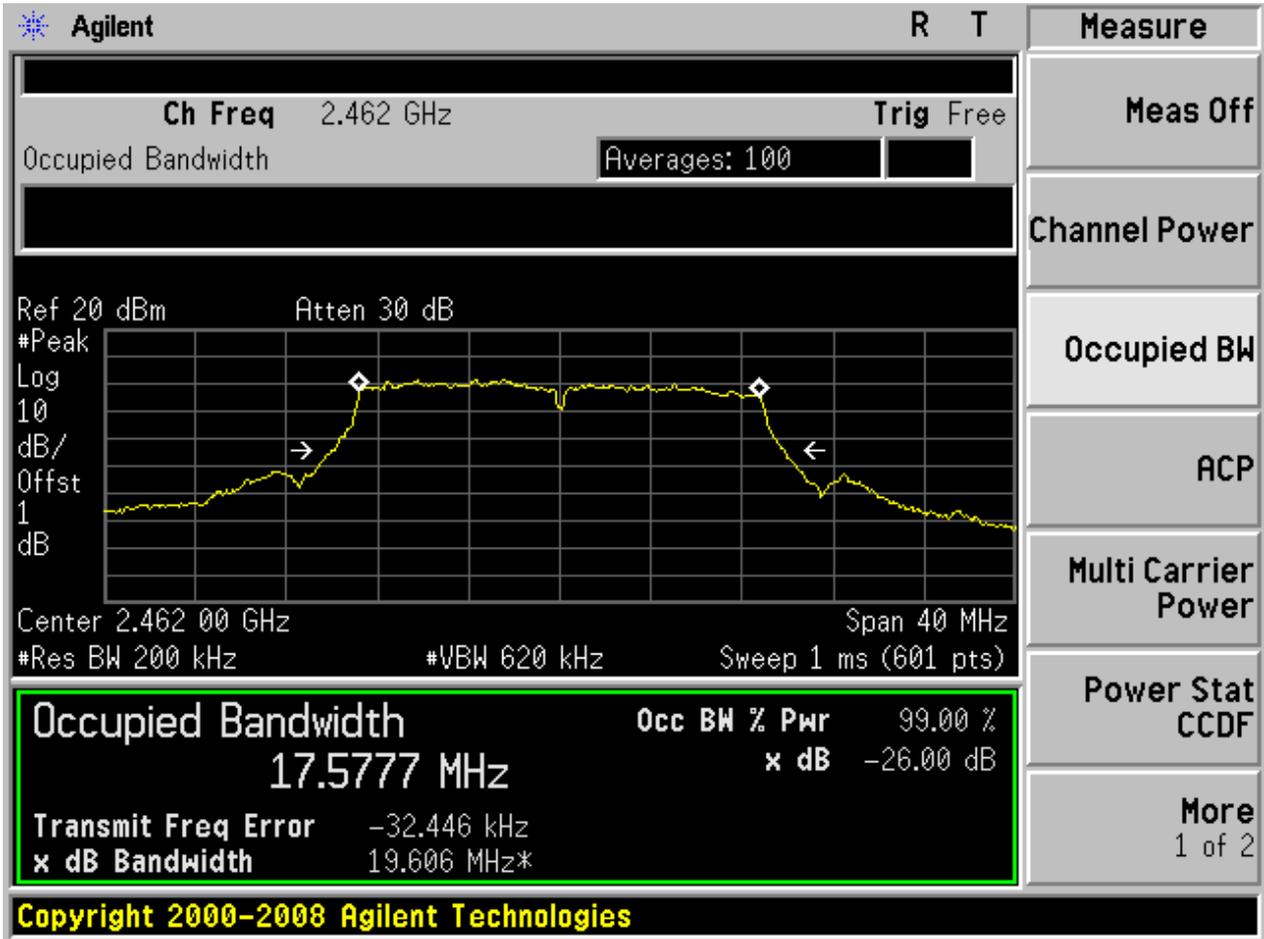
Multi Carrier Power

Power Stat CCDF

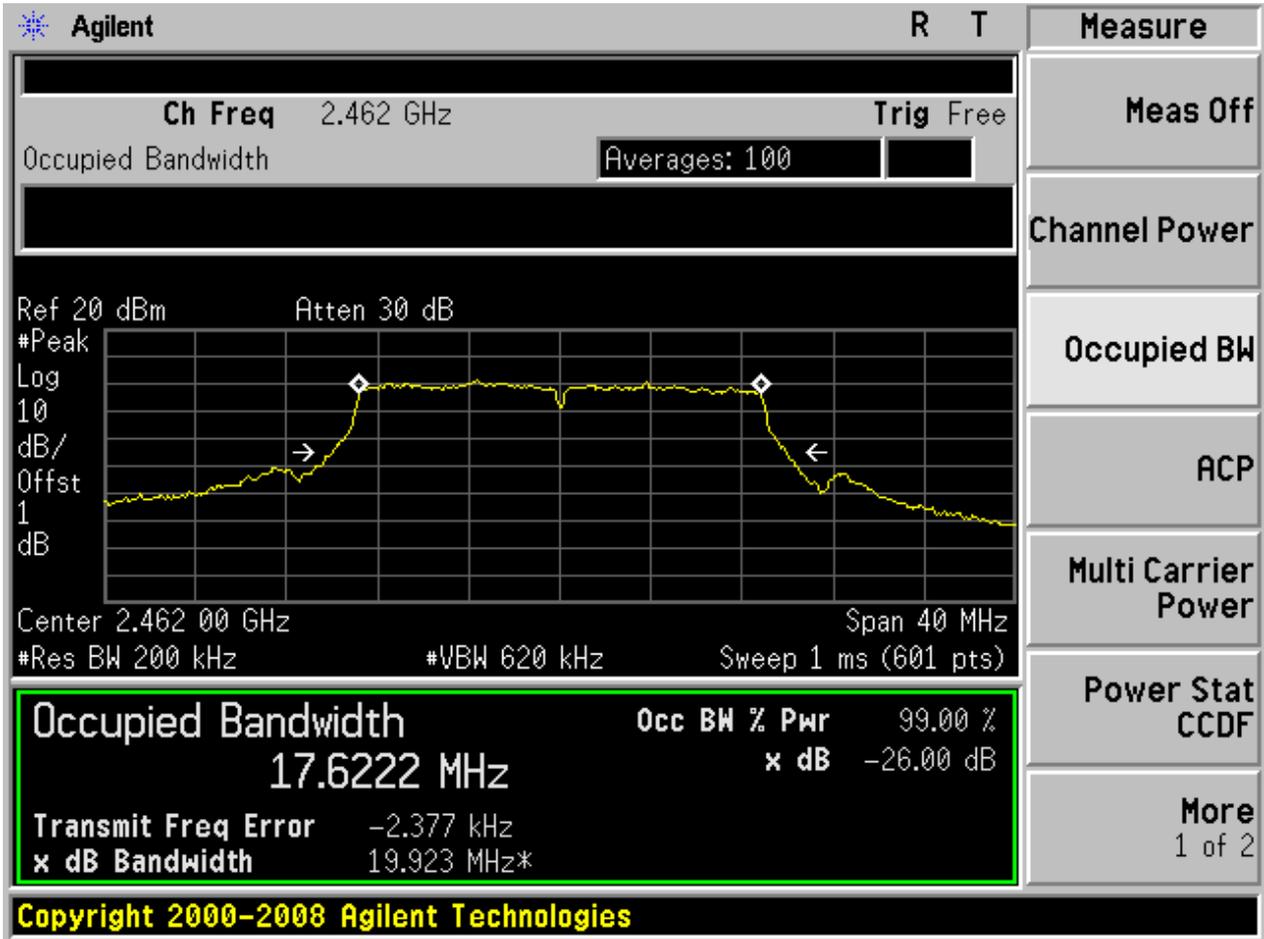
More  
1 of 2



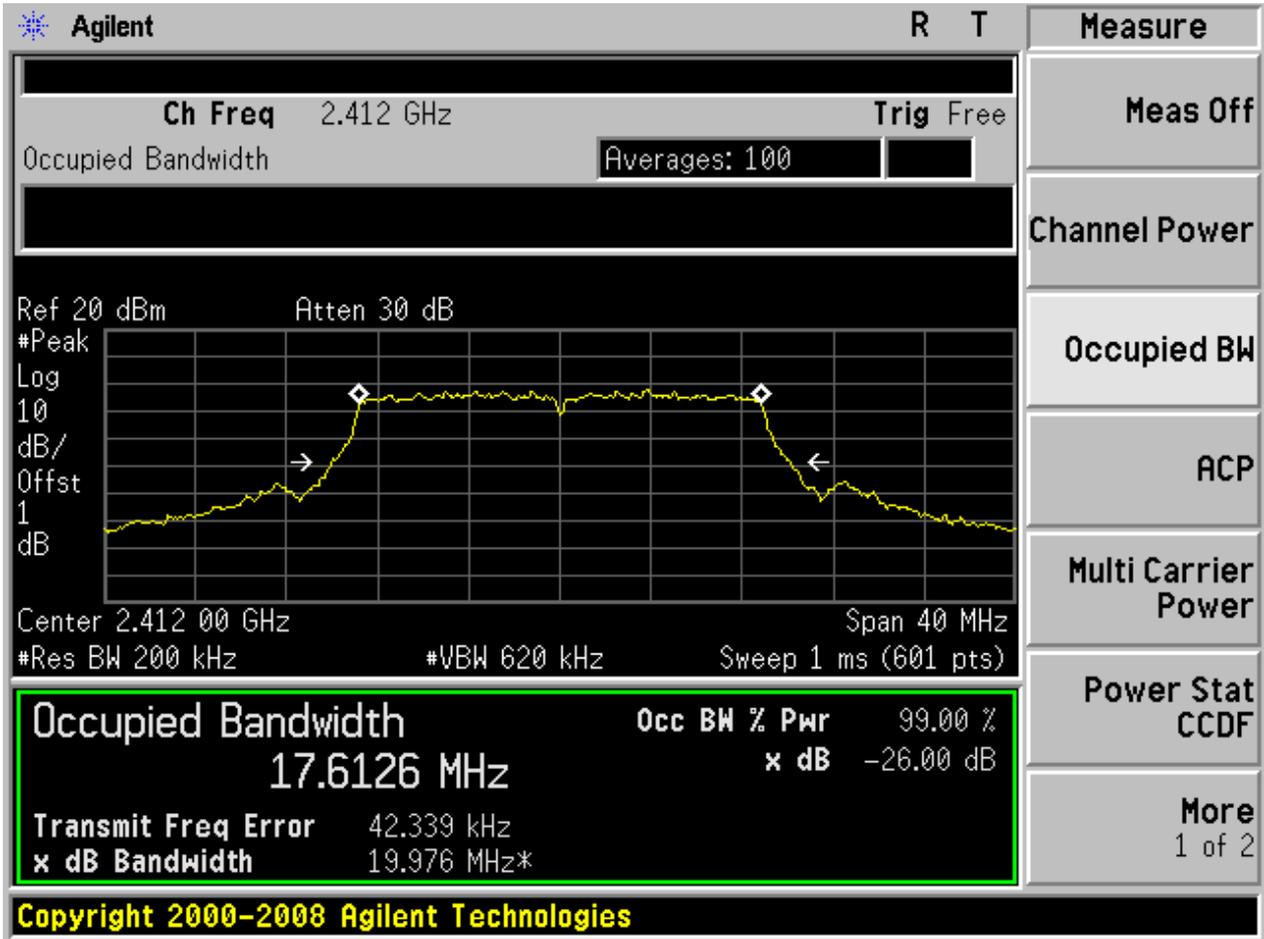
2.17 11N20\_H@Ant 1



2.18 11N20\_H@Ant 2



2.19 11N20m\_L@Ant 1





2.20 11N20m\_L@Ant 2

Agilent R T

**Ch Freq** 2.412 GHz **Trig** Free

Occupied Bandwidth Averages: 100

---

Ref 20 dBm Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
1  
dB

Center 2.412 00 GHz Span 40 MHz

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

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>17.5783 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	17.836 kHz	
<b>x dB Bandwidth</b>	19.766 MHz*	

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

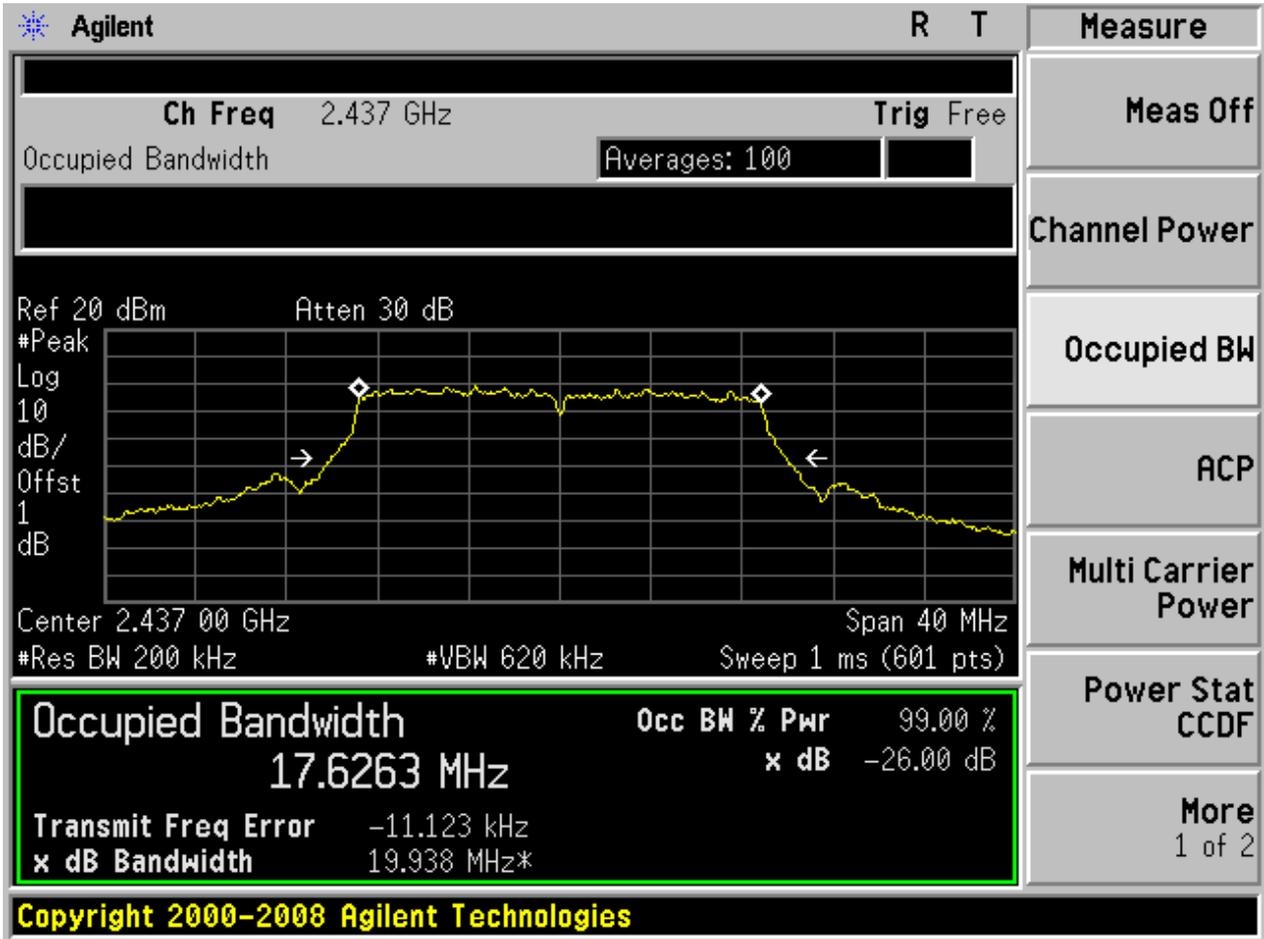
Multi Carrier Power

Power Stat CCDF

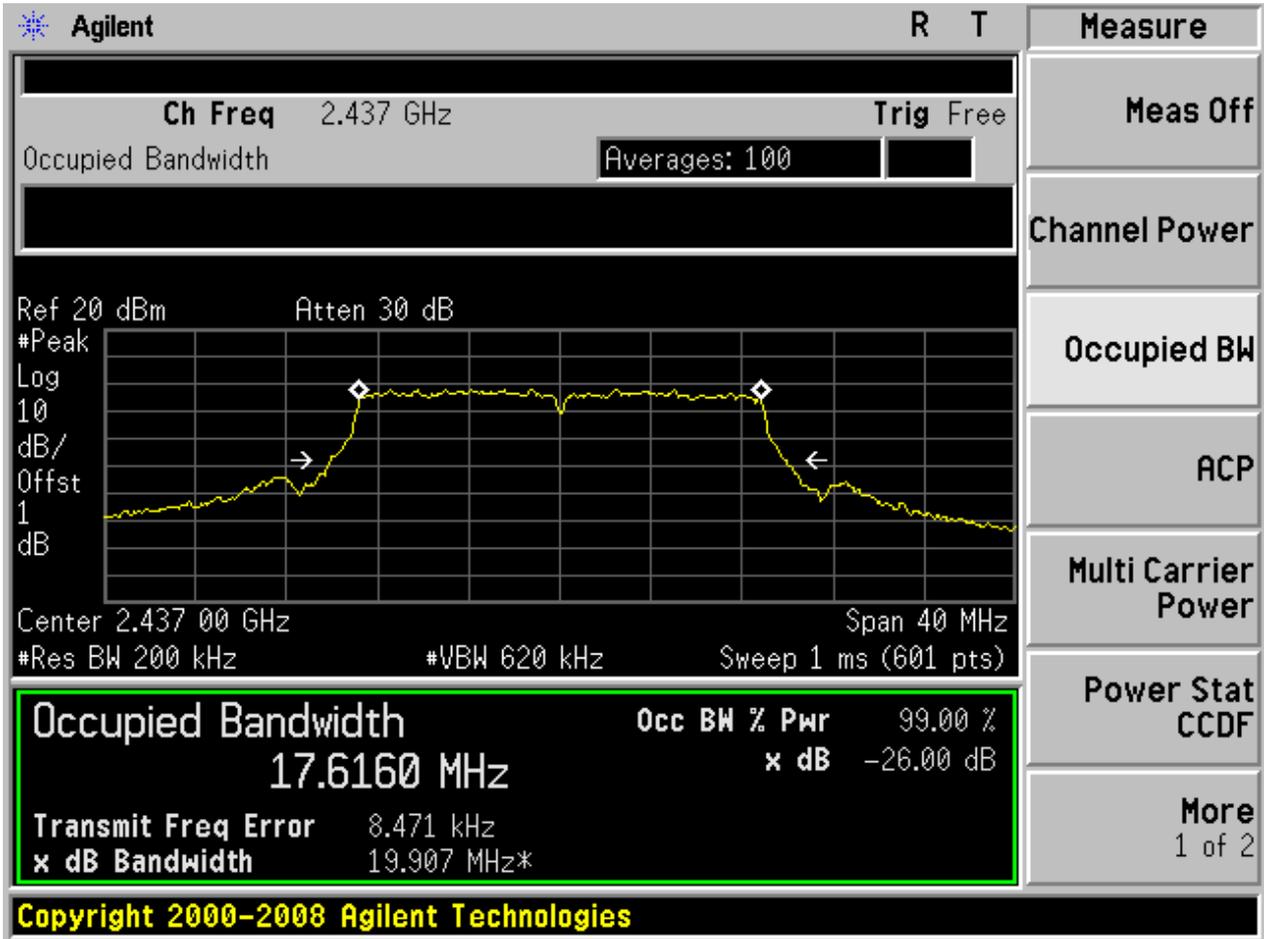
More  
1 of 2



2.21 11N20m\_M@Ant 1

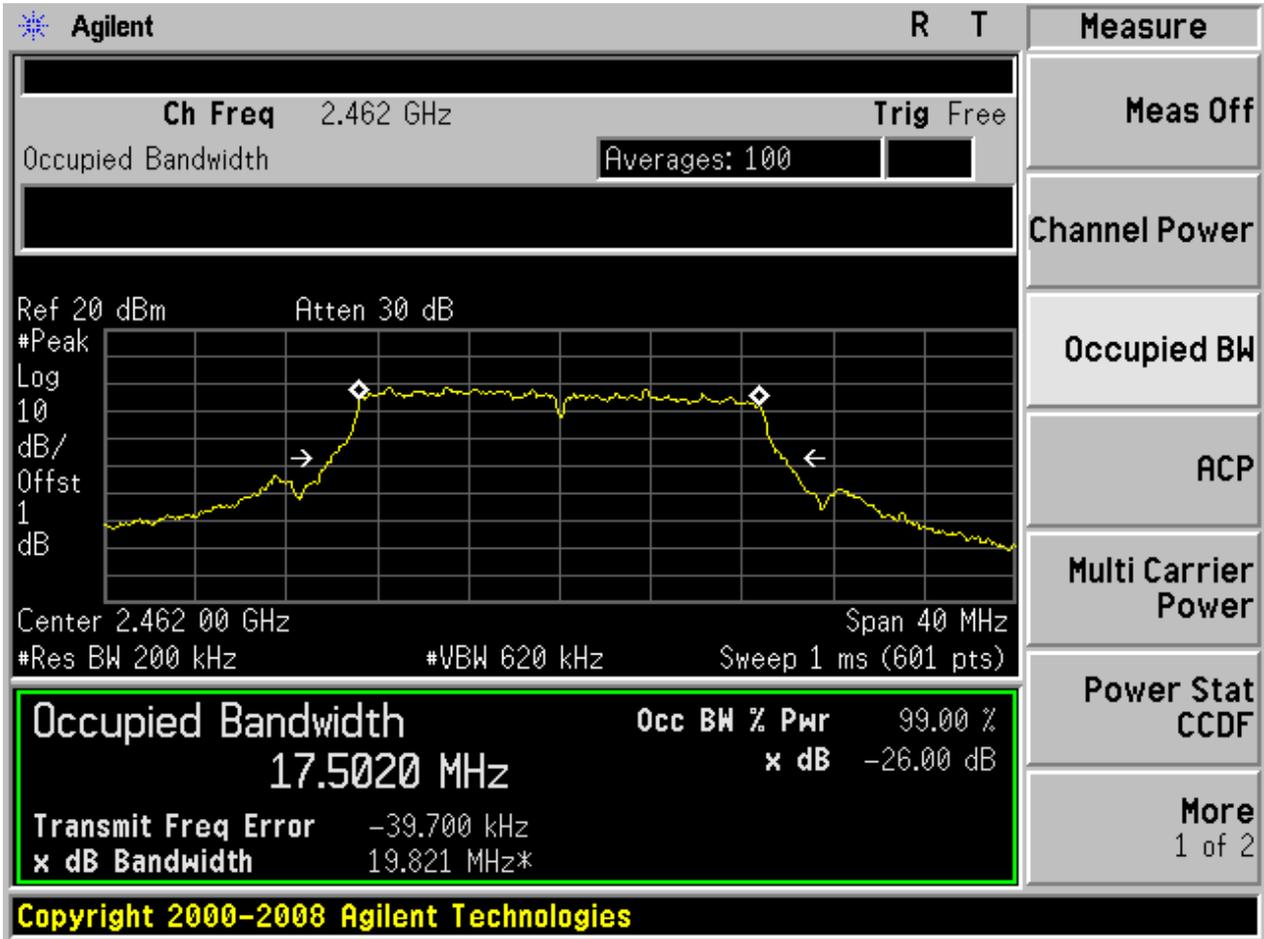


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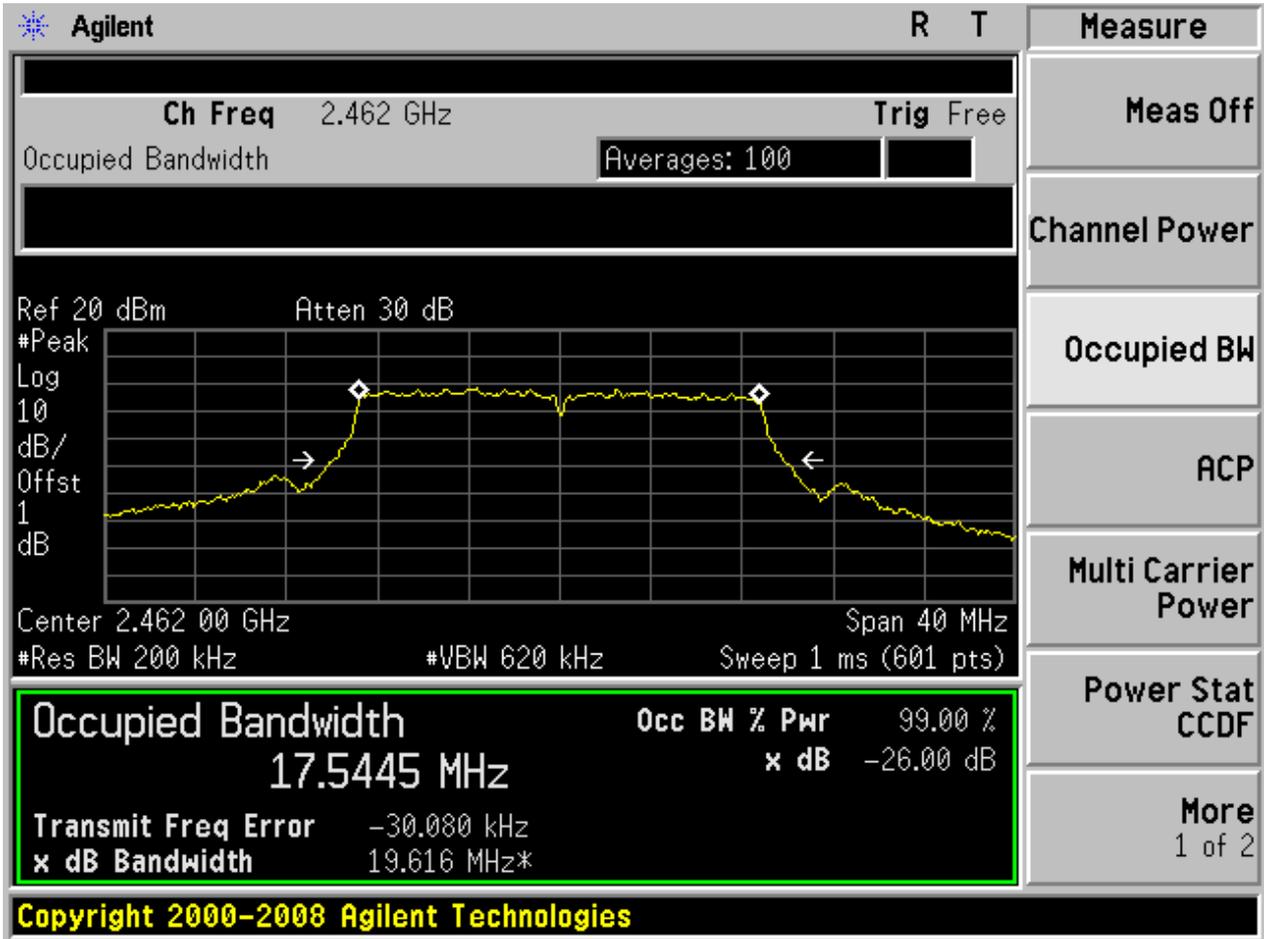


2.23 11N20m\_H@Ant 1



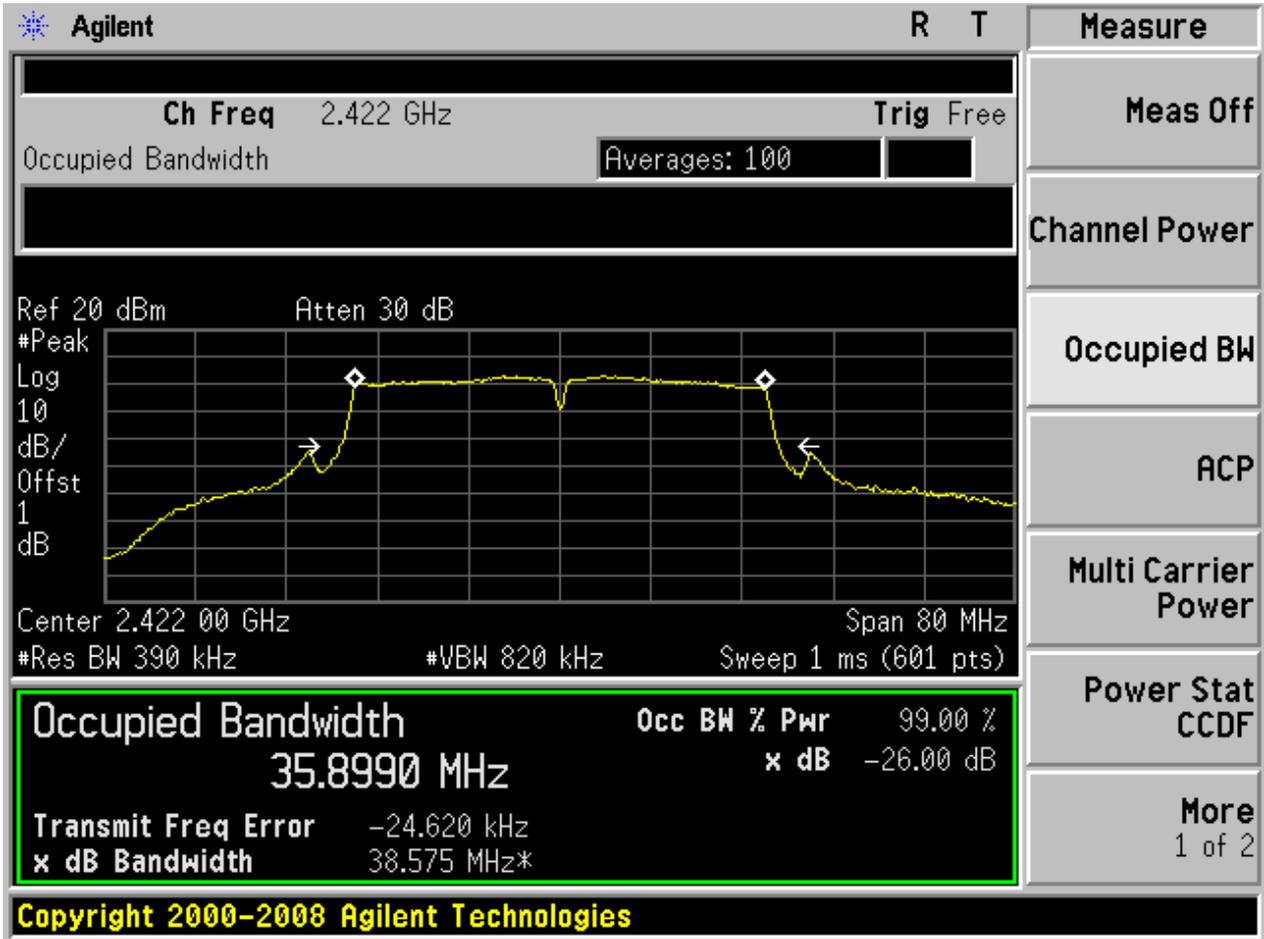


2.24 11N20m\_H@Ant 2



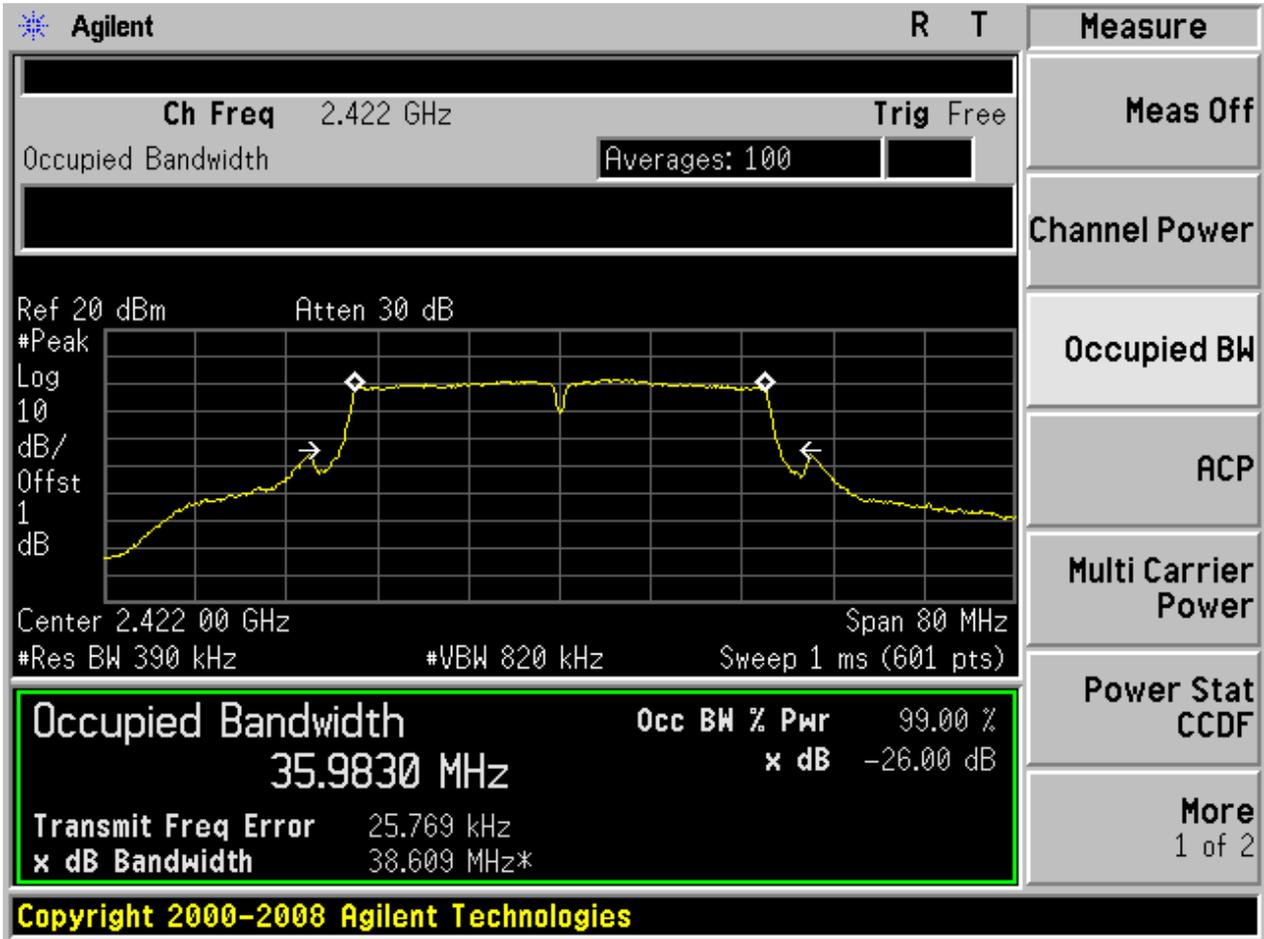


2.25 11N40\_L@Ant 1



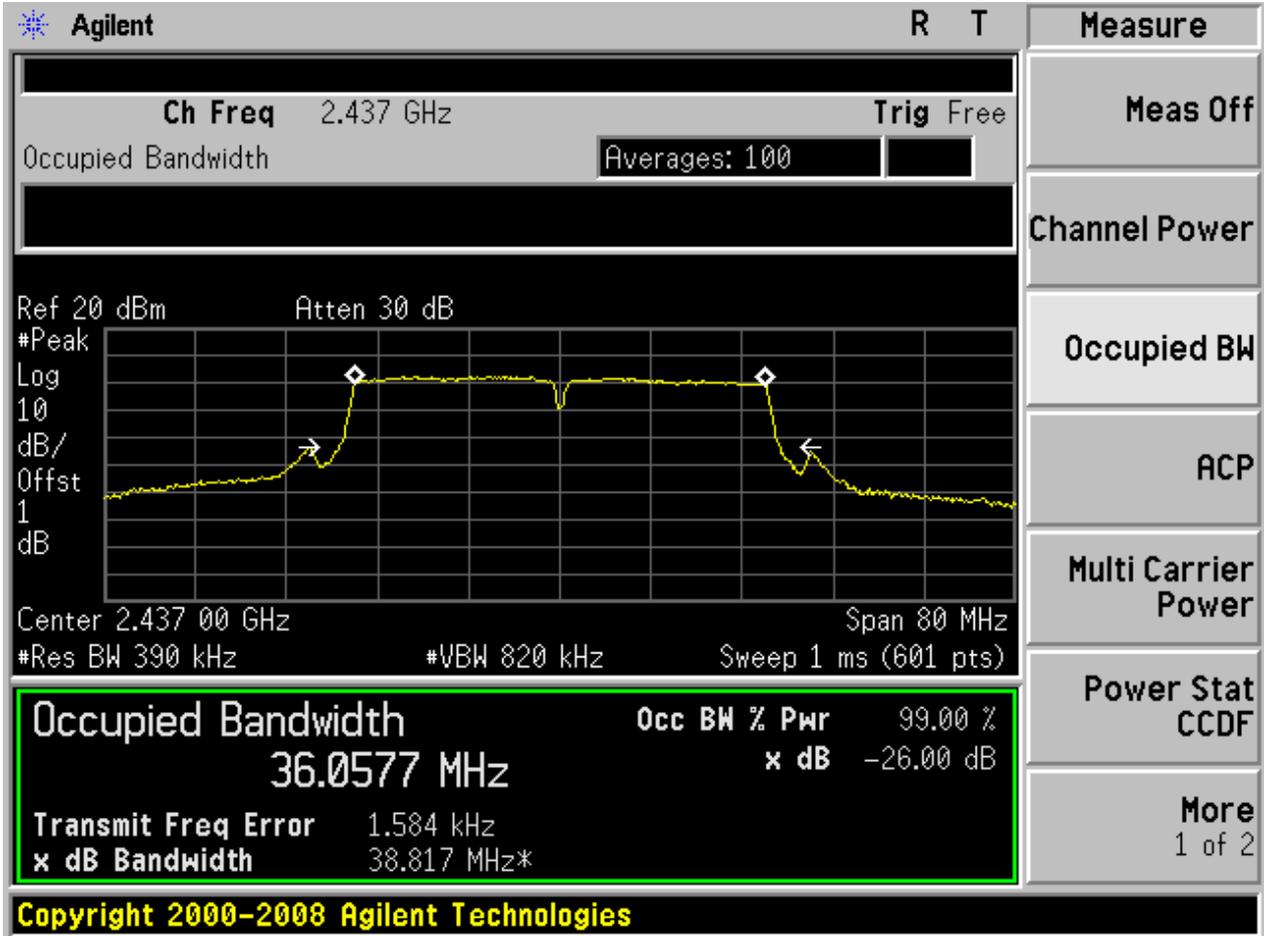


2.26 11N40\_L@Ant 2



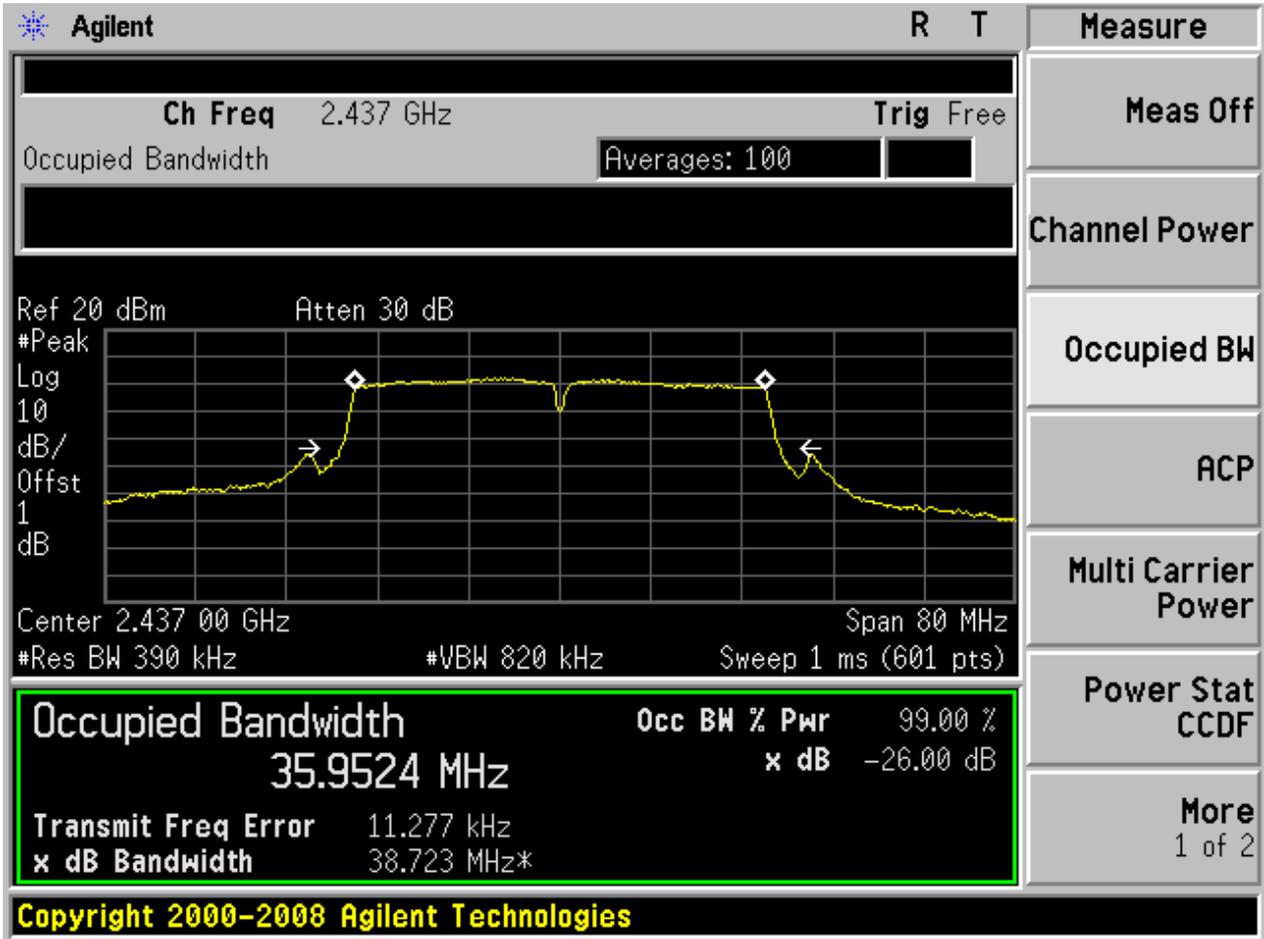


2.27 11N40\_M@Ant 1



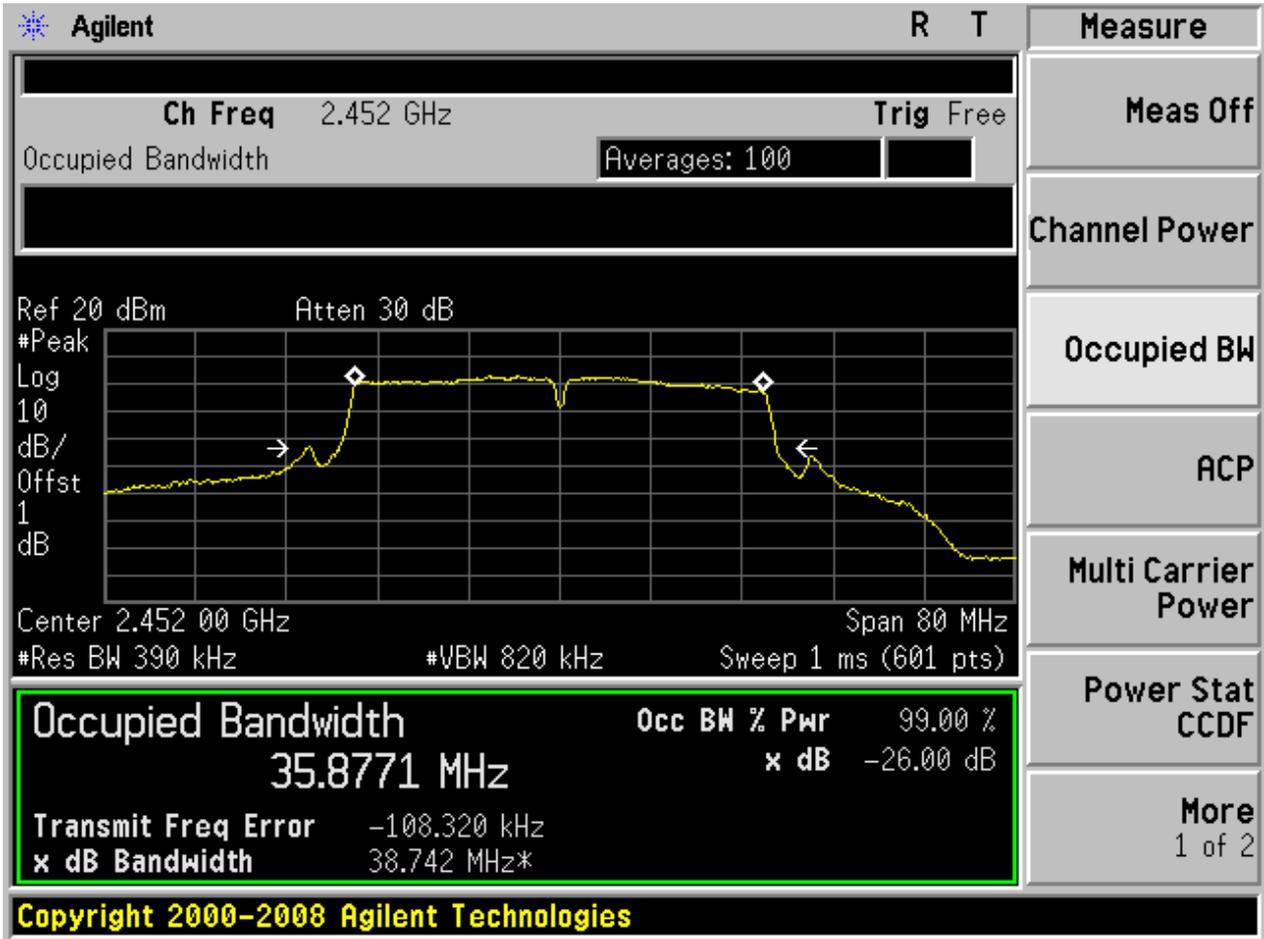


2.28 11N40\_M@Ant 2



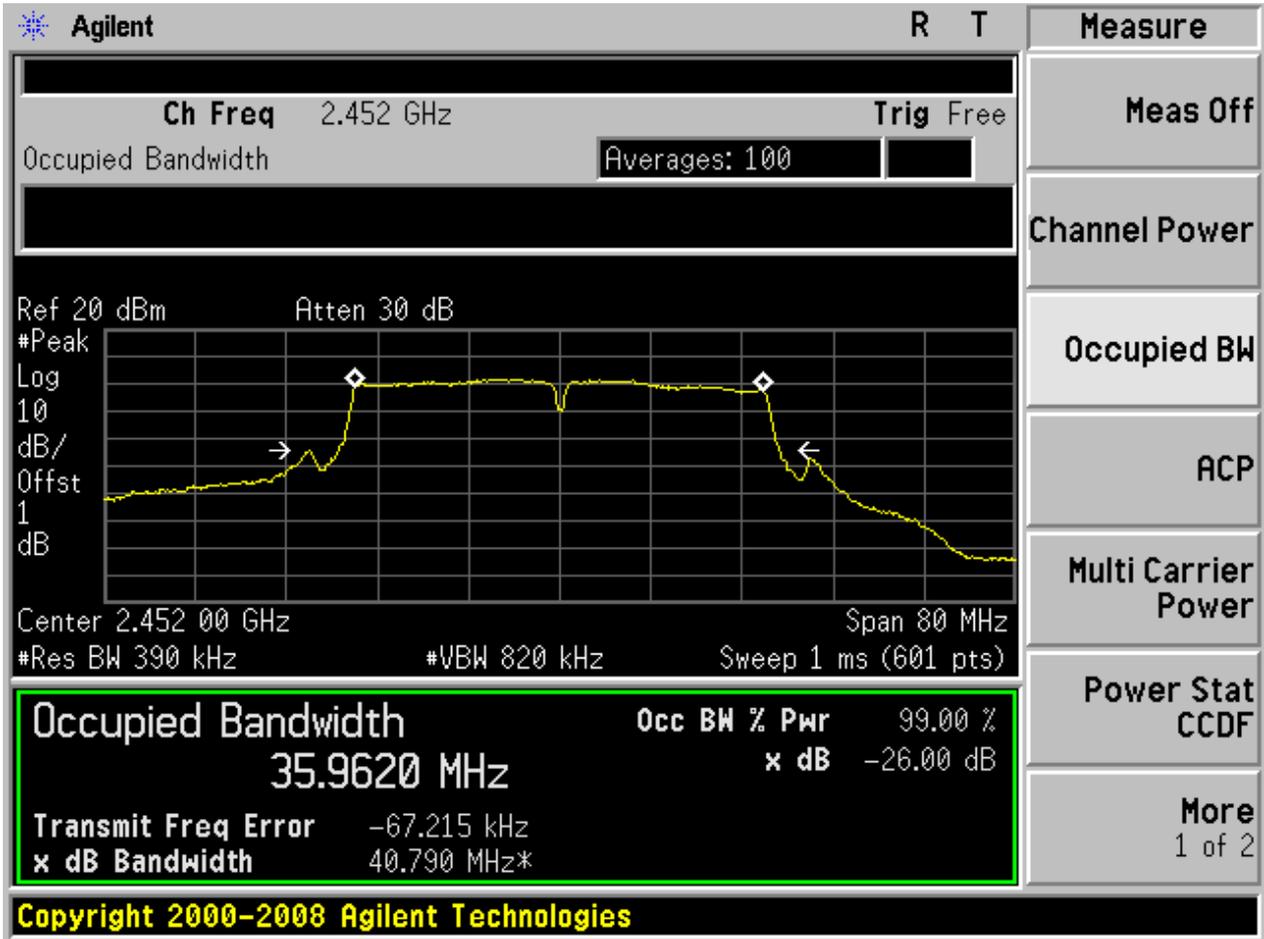


2.29 11N40\_H@Ant 1



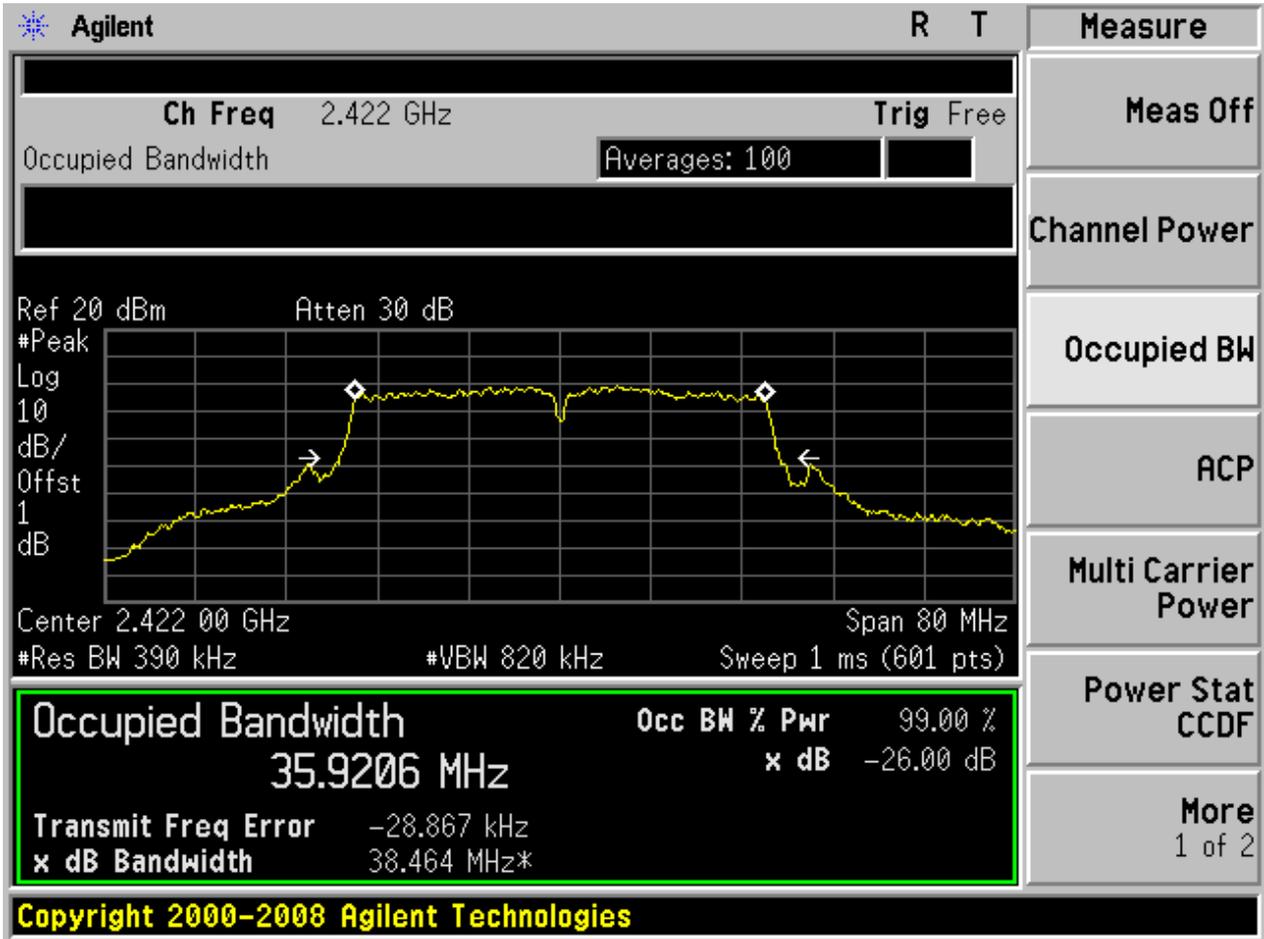


2.30 11N40\_H@Ant 2



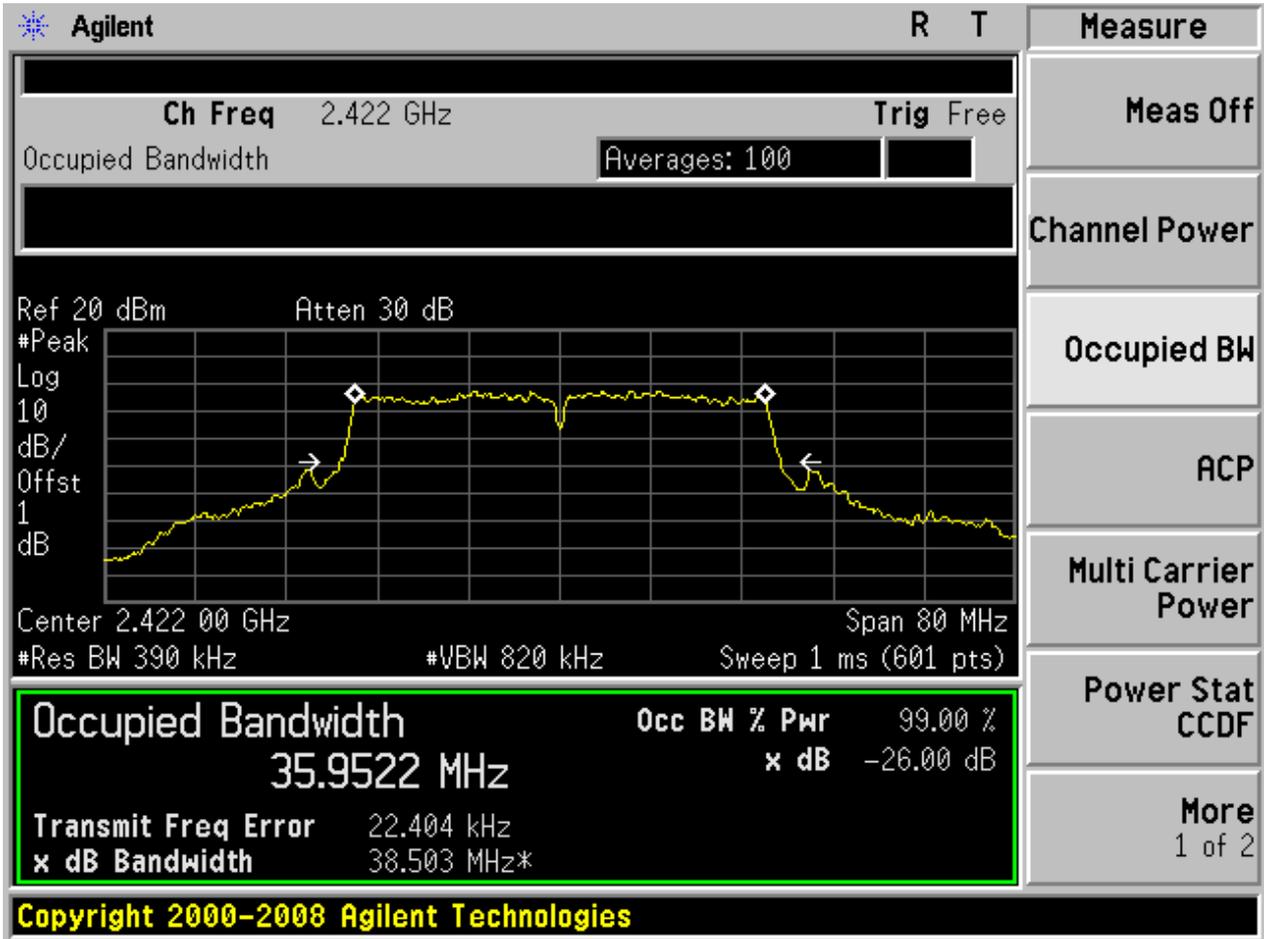


2.31 11N40m\_L@Ant 1



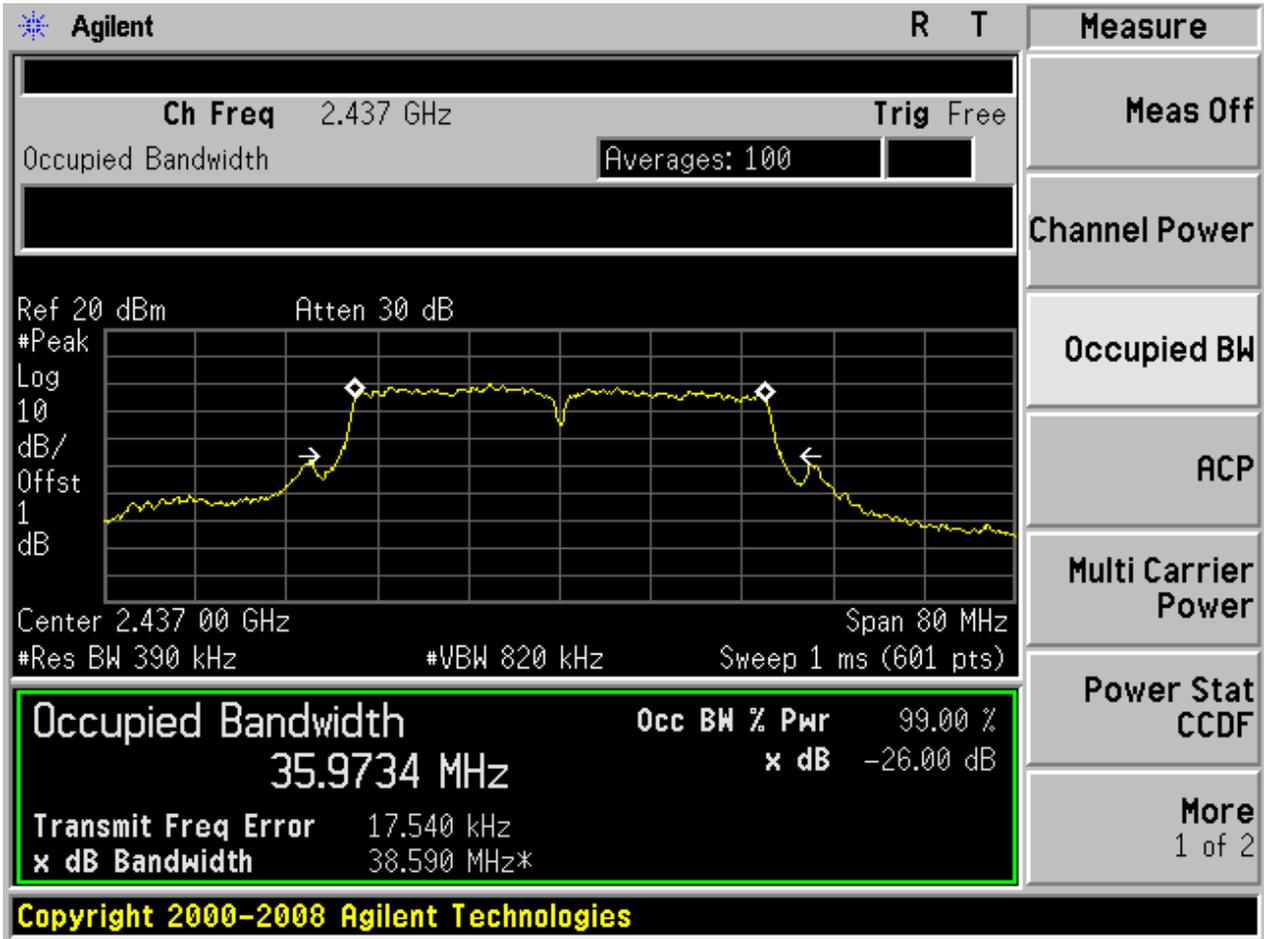


2.32 11N40m\_L@Ant 2

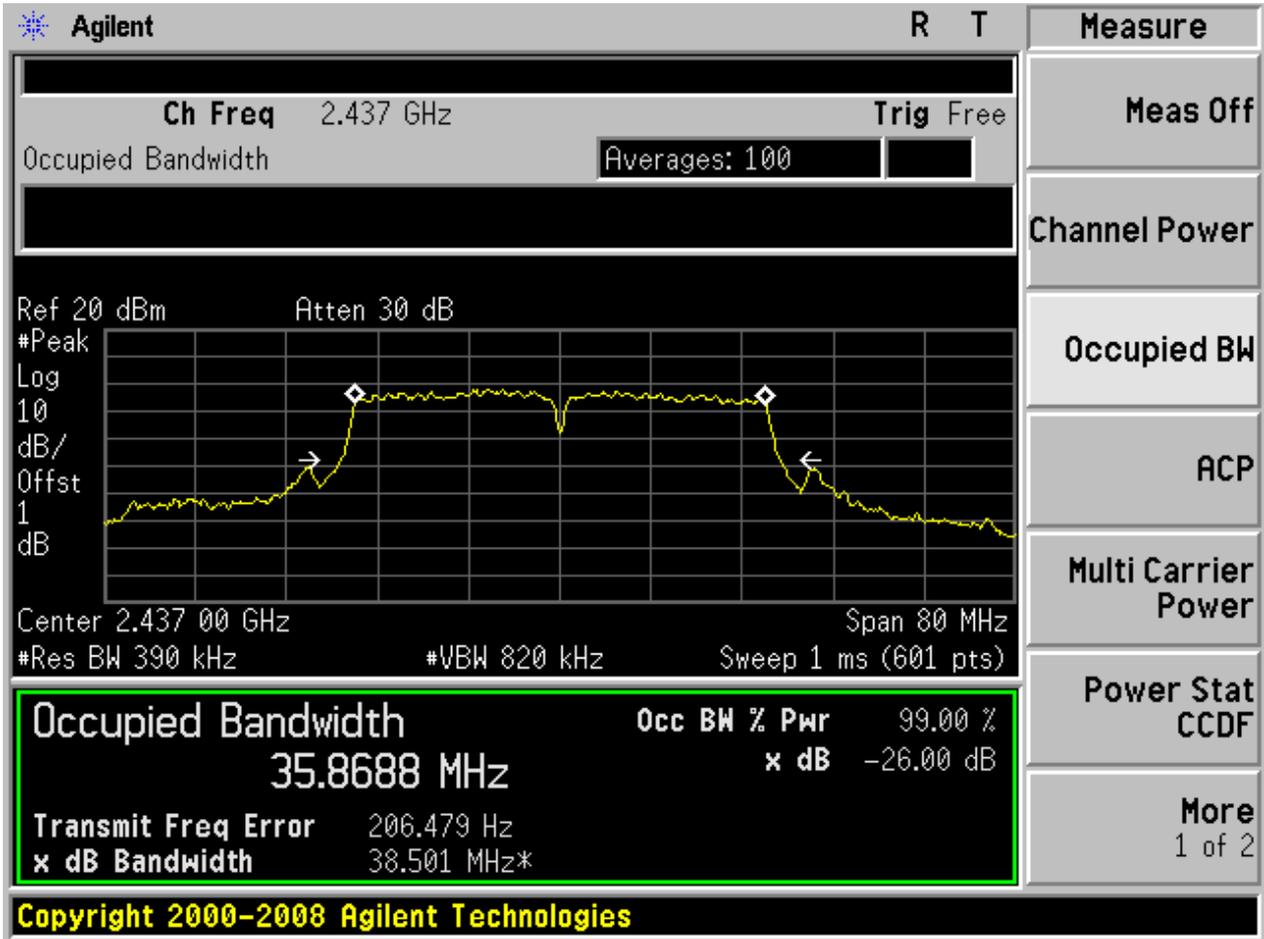




2.33 11N40m\_M@Ant 1

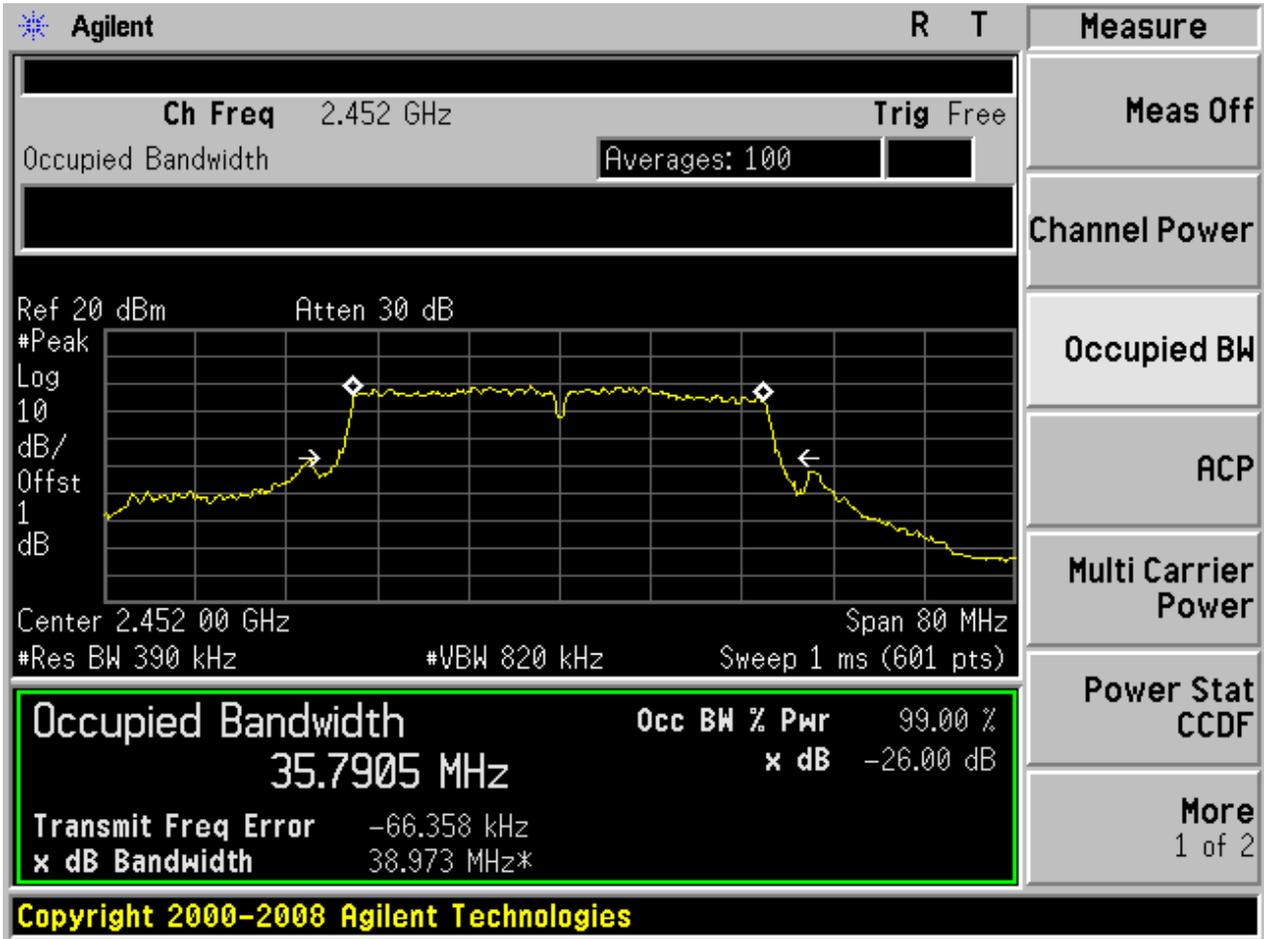


2.34 11N40m\_M@Ant 2

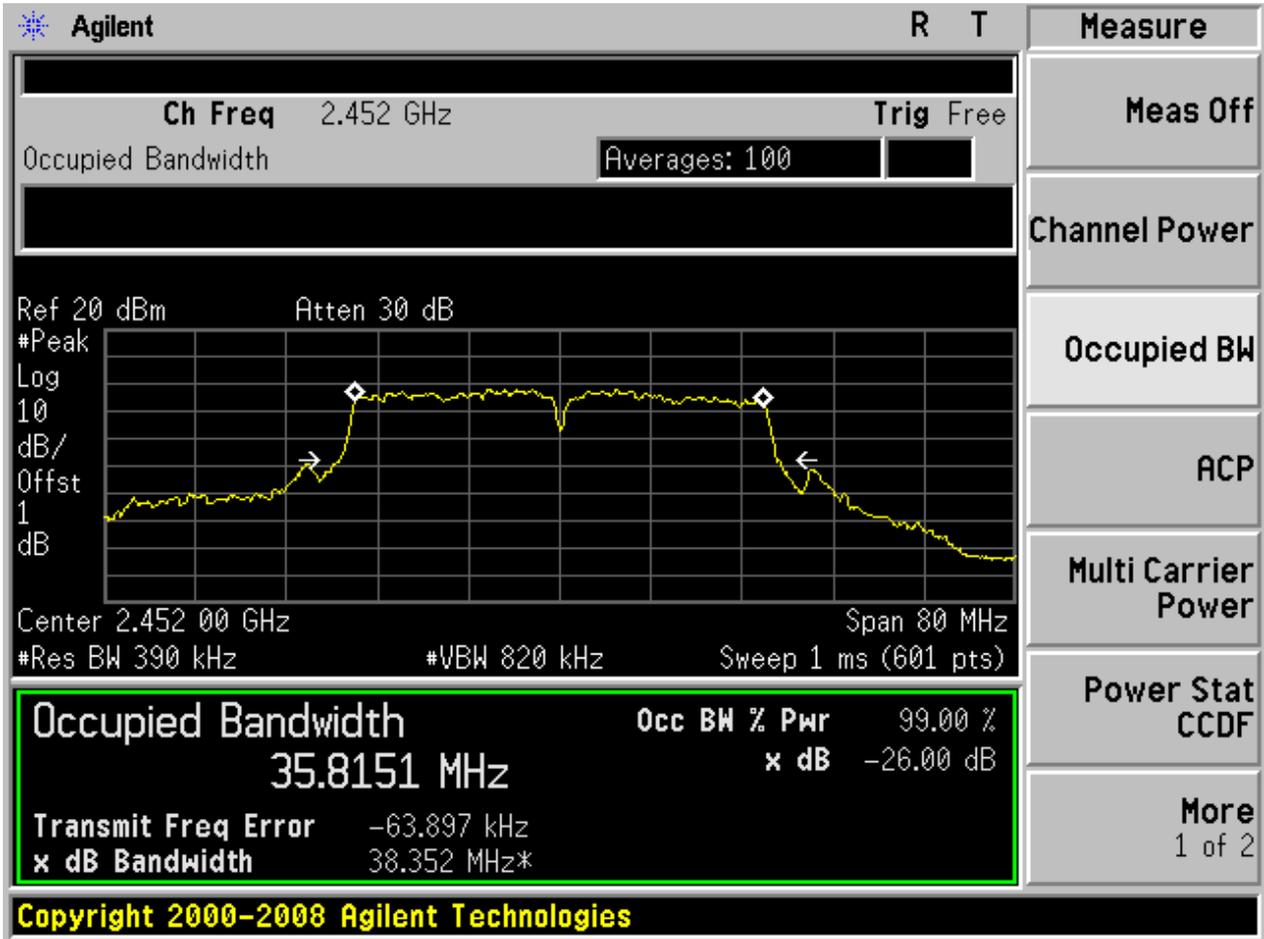




2.35 11N40m\_H@Ant 1



2.36 11N40m\_H@Ant 2





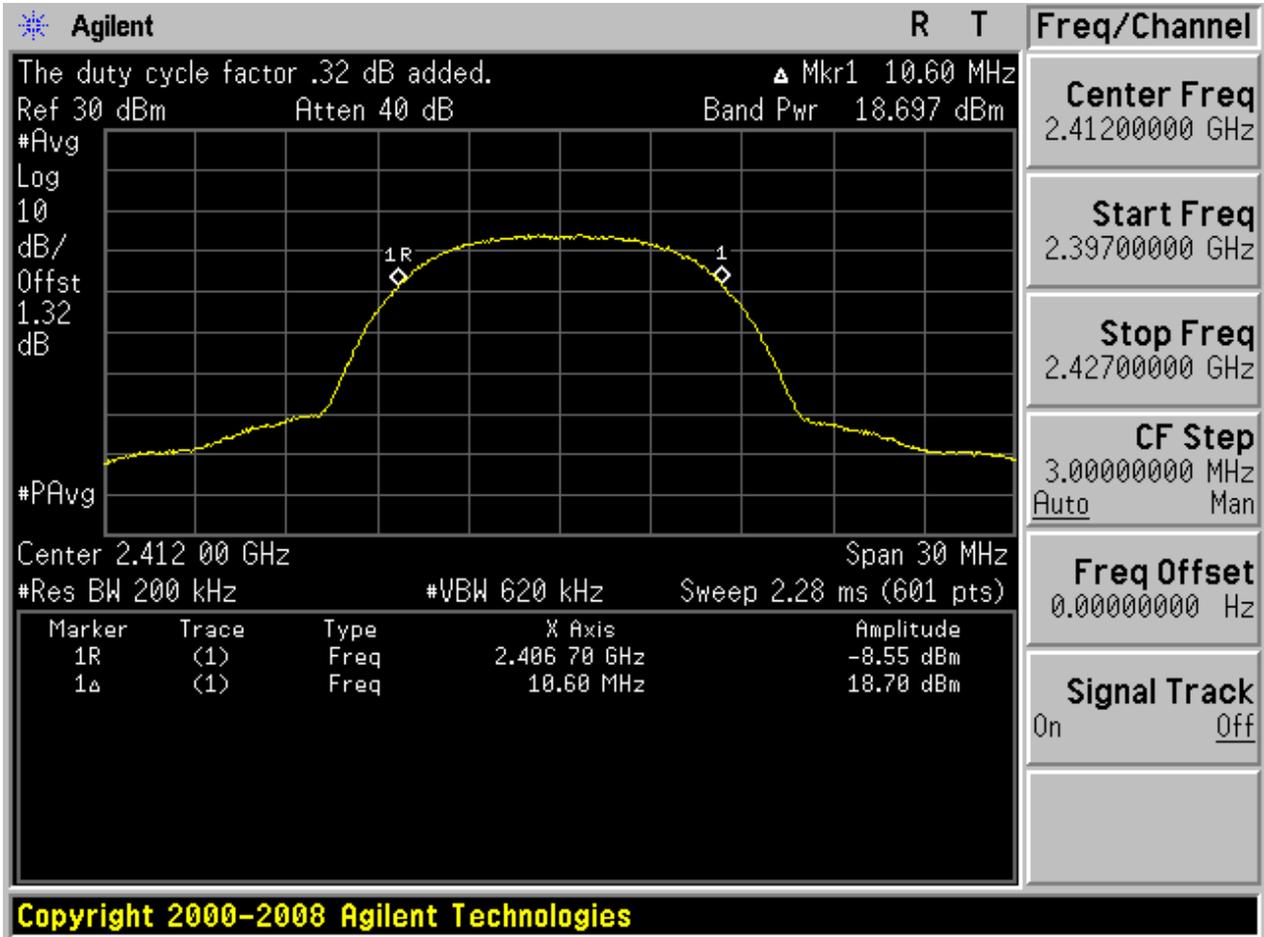
## Appendix C: Maximum Conducted Average Output Power

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
11B	L	2412	Ant 1	18.70	pass
11B	L	2412	Ant 2	17.56	pass
11B	M	2437	Ant 1	18.95	pass
11B	M	2437	Ant 2	18.61	pass
11B	H	2462	Ant 1	18.29	pass
11B	H	2462	Ant 2	18.44	pass
11G	L	2412	Ant 1	17.21	pass
11G	L	2412	Ant 2	13.74	pass
11G	M	2437	Ant 1	15.22	pass
11G	M	2437	Ant 2	15.05	pass
11G	H	2462	Ant 1	14.74	pass
11G	H	2462	Ant 2	14.83	pass
11N20	L	2412	Ant 1	19.66	pass
11N20	L	2412	Ant 2	19.20	pass
11N20	M	2437	Ant 1	20.44	pass
11N20	M	2437	Ant 2	20.18	pass
11N20	H	2462	Ant 1	20.06	pass
11N20	H	2462	Ant 2	19.95	pass
11N20m	L	2412	Ant 1	16.58	pass
11N20m	L	2412	Ant 2	16.25	pass
11N20m	M	2437	Ant 1	17.46	pass
11N20m	M	2437	Ant 2	17.39	pass
11N20m	H	2462	Ant 1	16.88	pass
11N20m	H	2462	Ant 2	17.21	pass
11N40	L	2422	Ant 1	20.56	pass
11N40	L	2422	Ant 2	19.39	pass
11N40	M	2437	Ant 1	20.65	pass
11N40	M	2437	Ant 2	19.97	pass
11N40	H	2452	Ant 1	20.44	pass
11N40	H	2452	Ant 2	19.64	pass
11N40m	L	2422	Ant 1	16.39	pass
11N40m	L	2422	Ant 2	14.79	pass
11N40m	M	2437	Ant 1	16.50	pass
11N40m	M	2437	Ant 2	15.16	pass
11N40m	H	2452	Ant 1	16.37	pass
11N40m	H	2452	Ant 2	15.25	pass

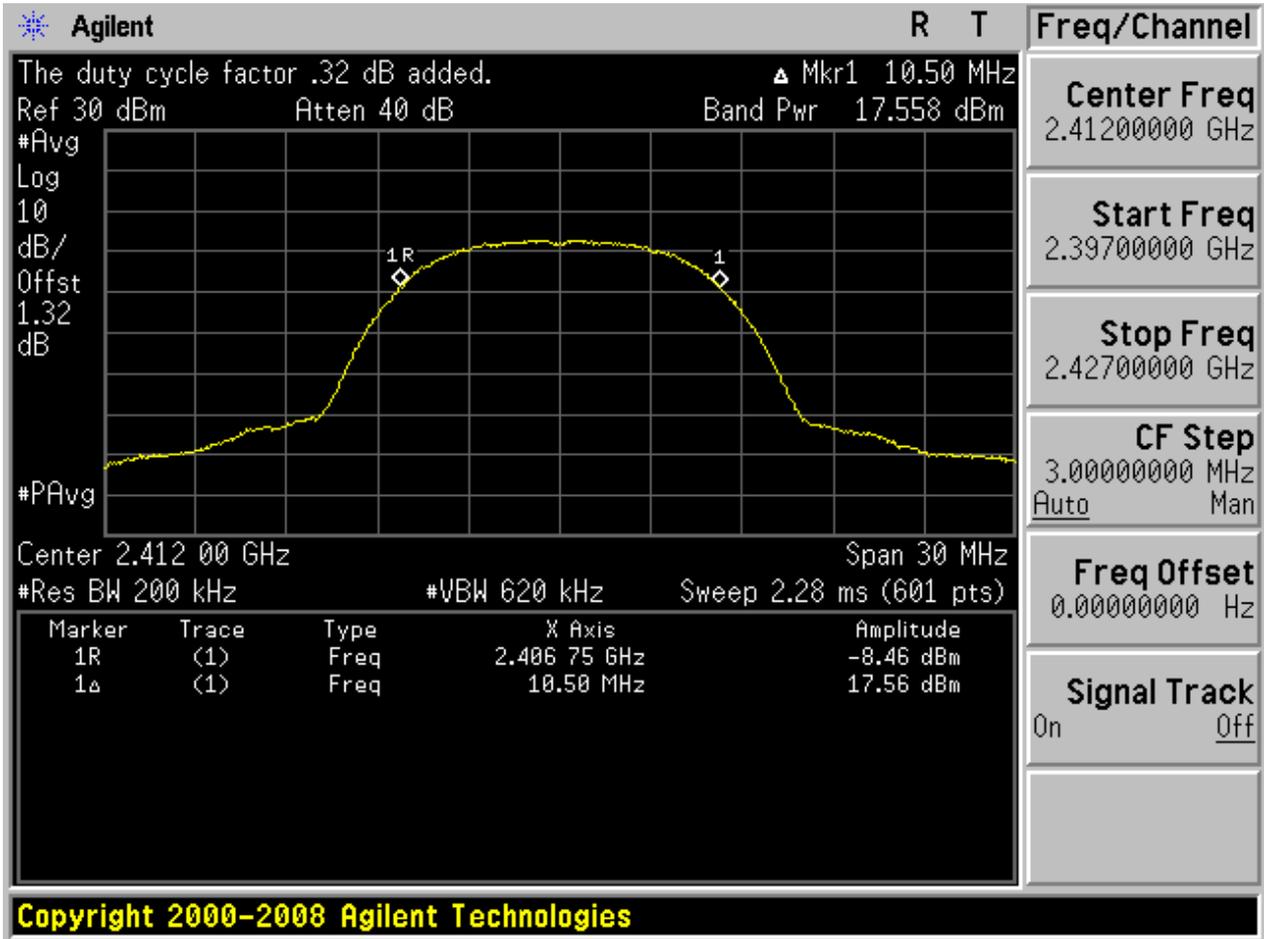
**Part II - Test Plots**

**2.1 11B\_L@Ant 1**

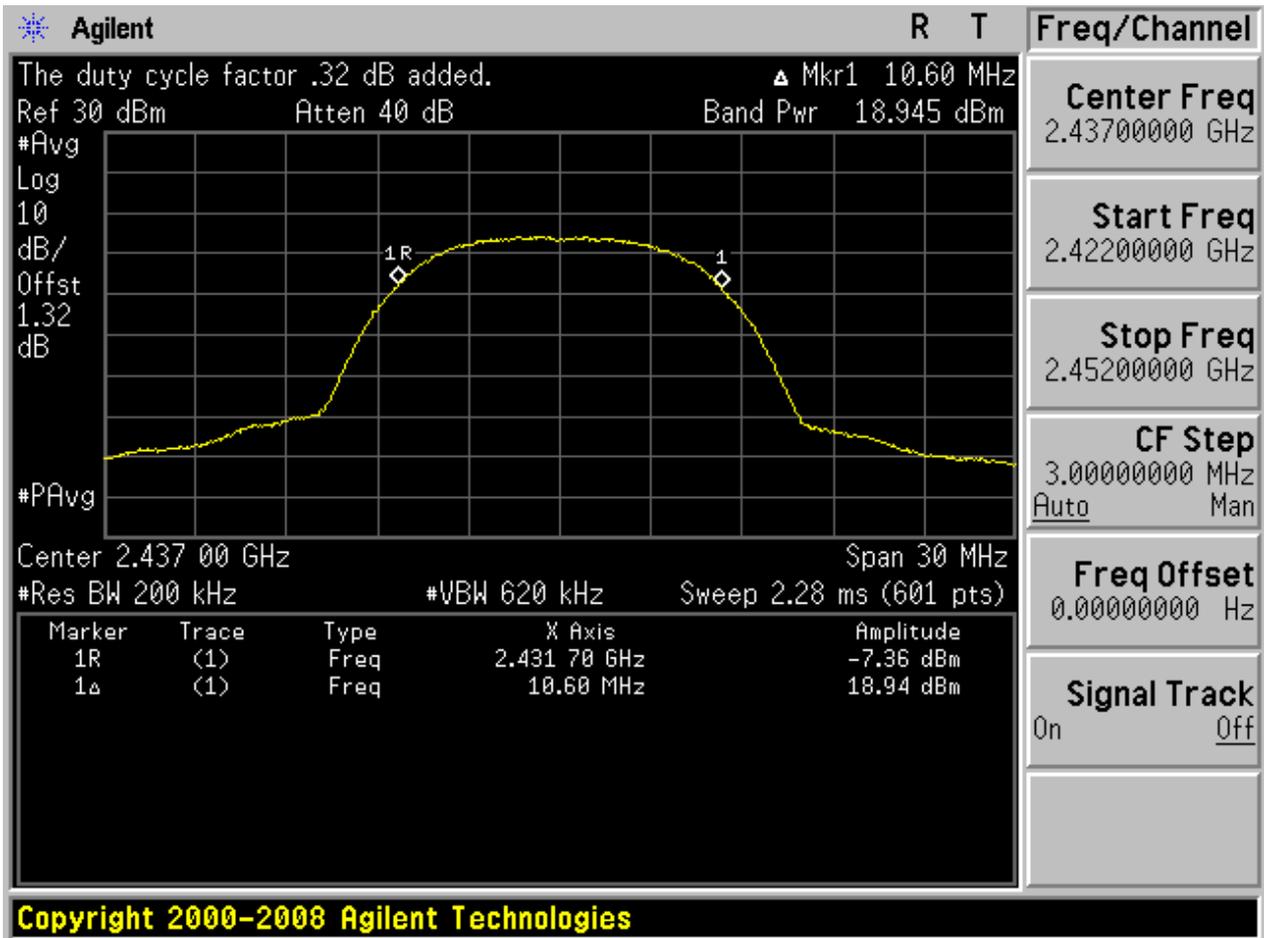




2.2 11B\_L@Ant 2

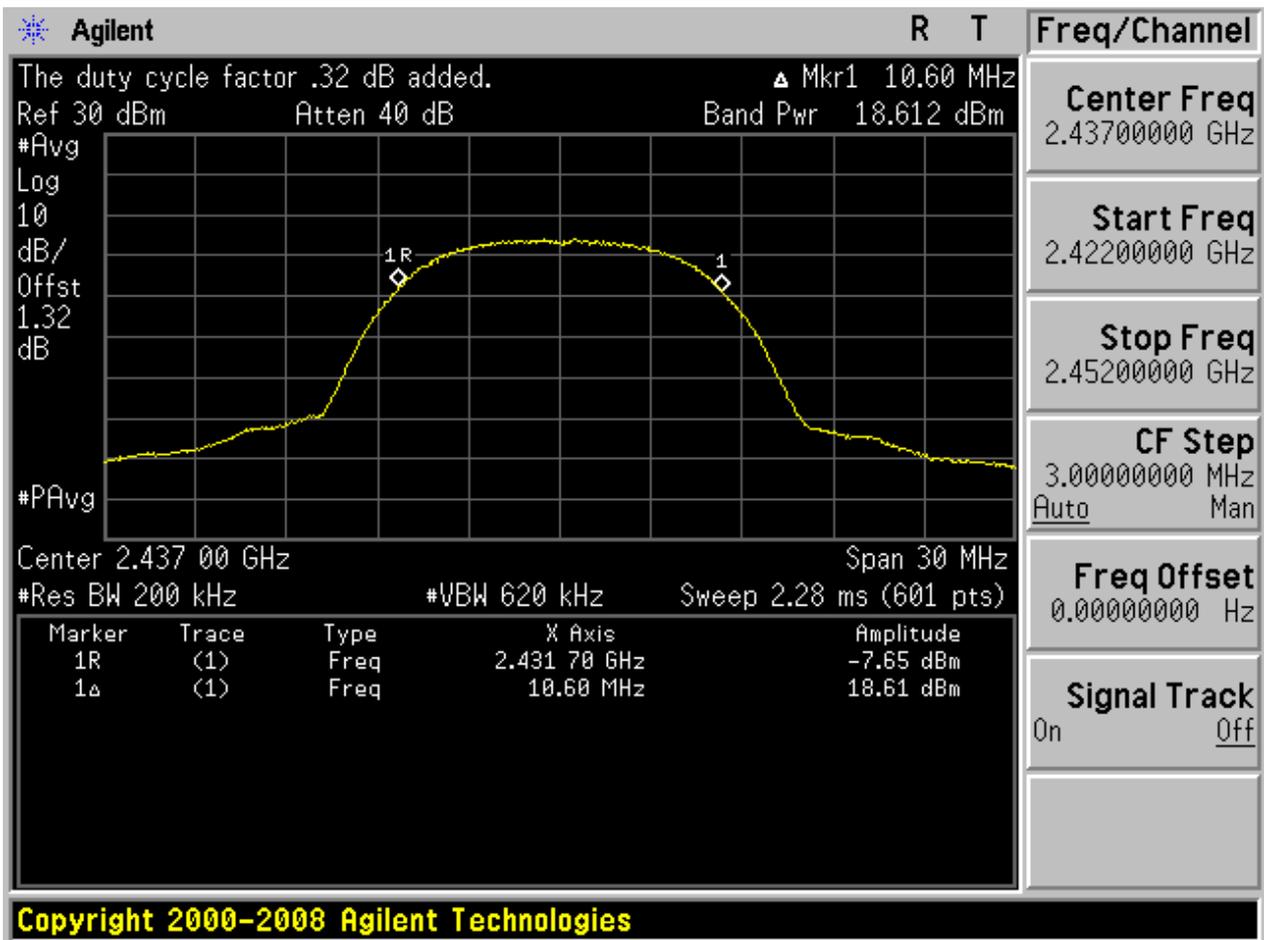


2.3 11B\_M@Ant 1



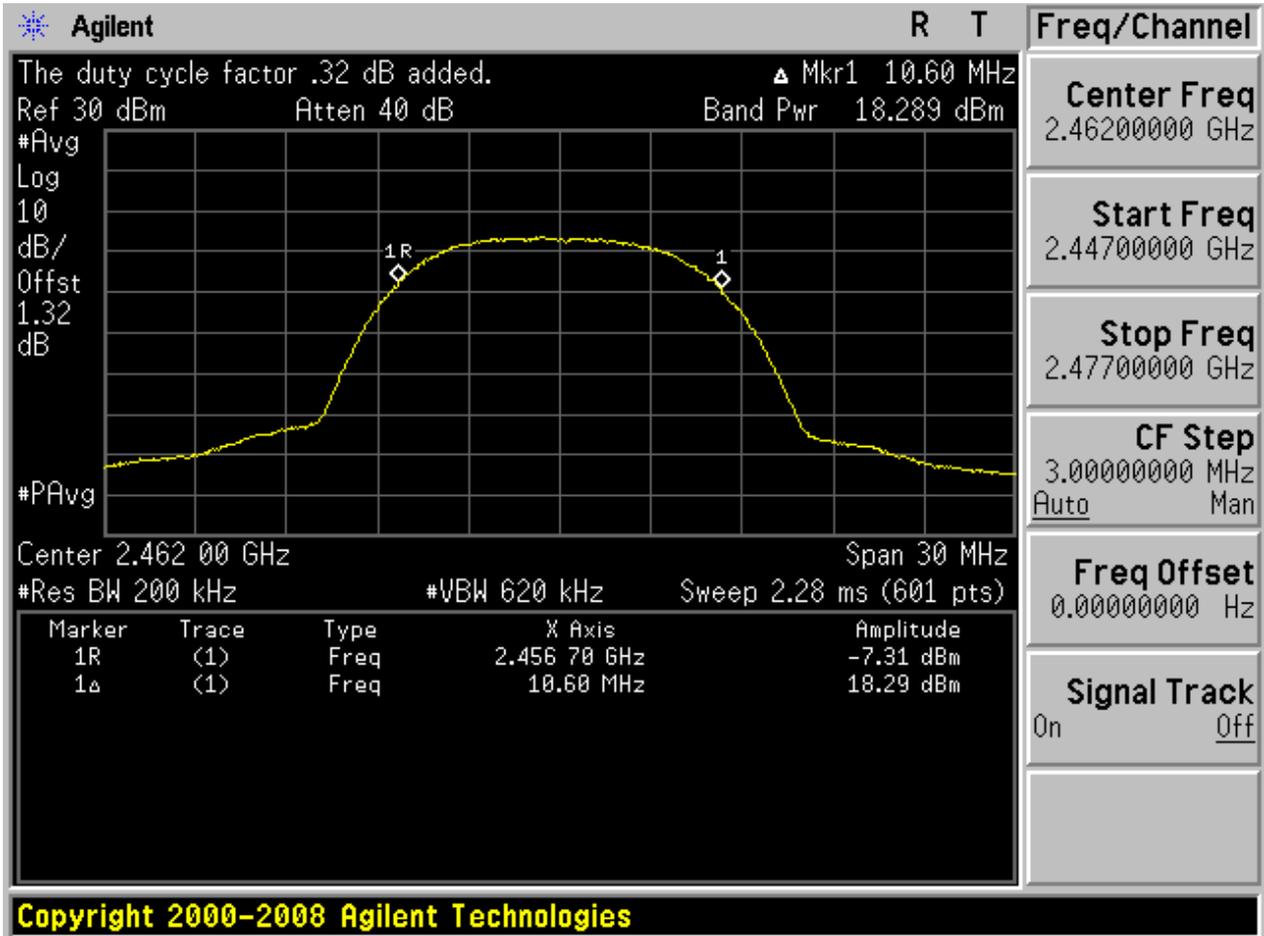


2.4 11B\_M@Ant 2





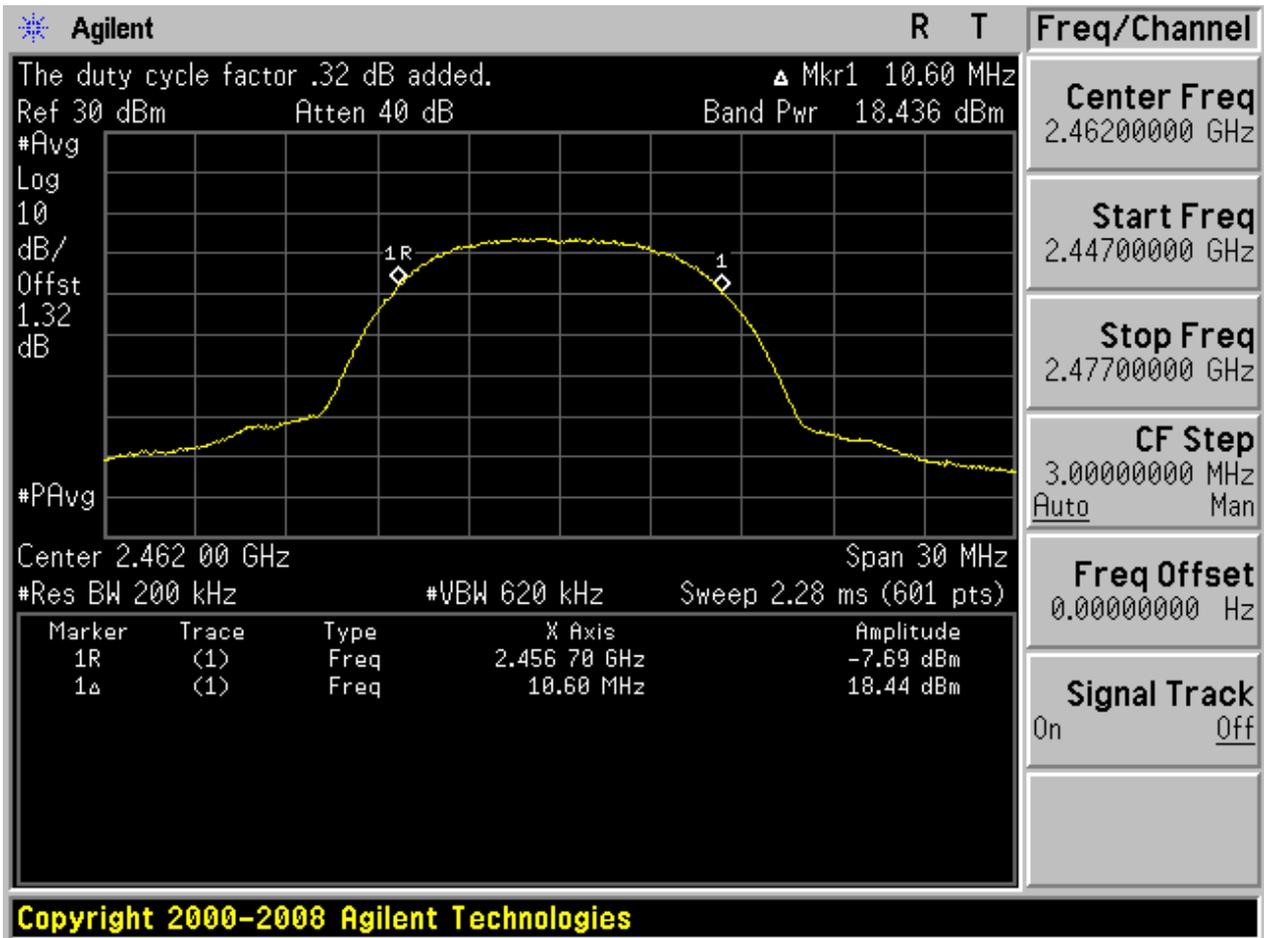
2.5 11B\_H@Ant 1



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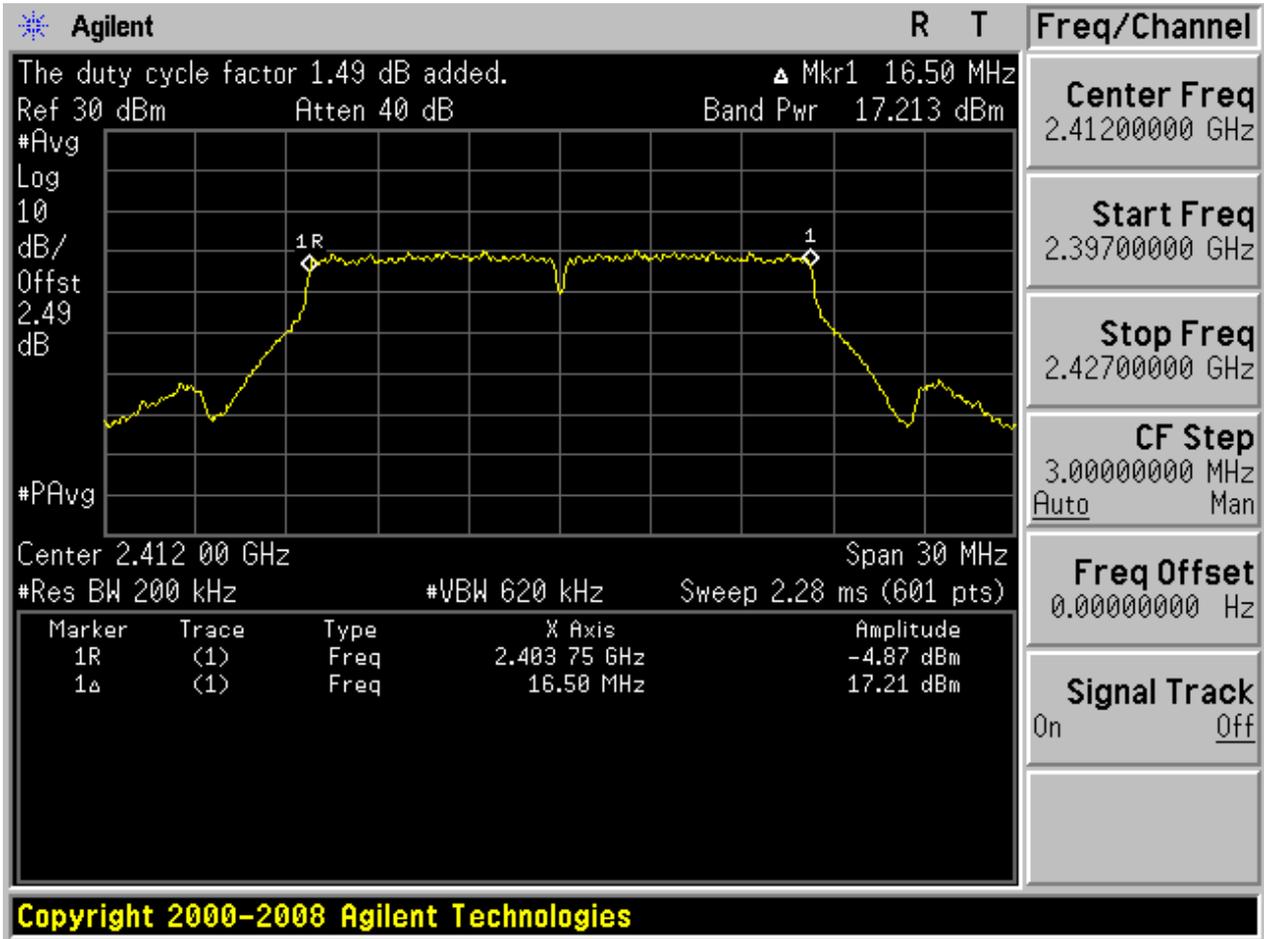


2.6 11B\_H@Ant 2





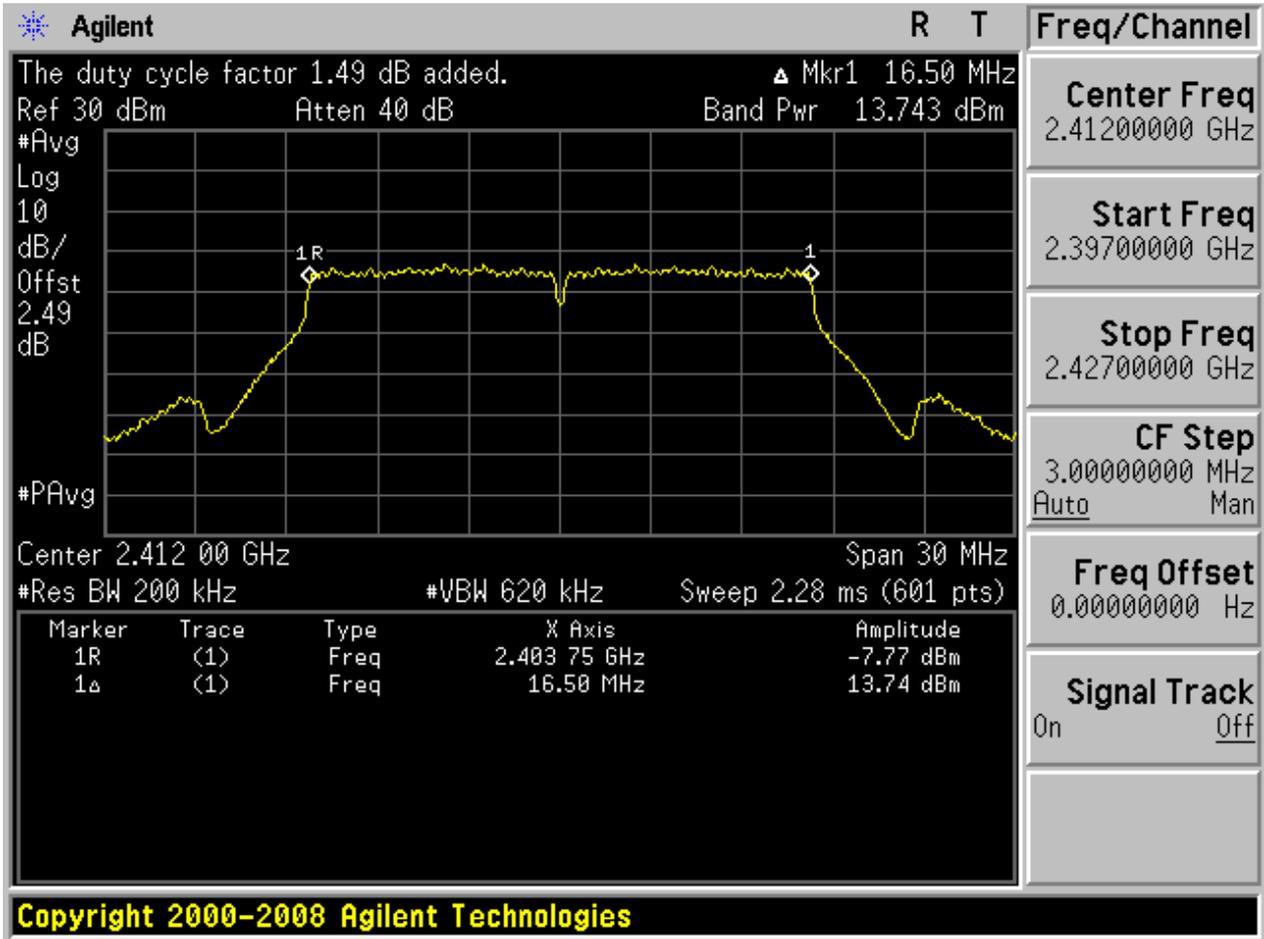
2.7 11G\_L@Ant 1



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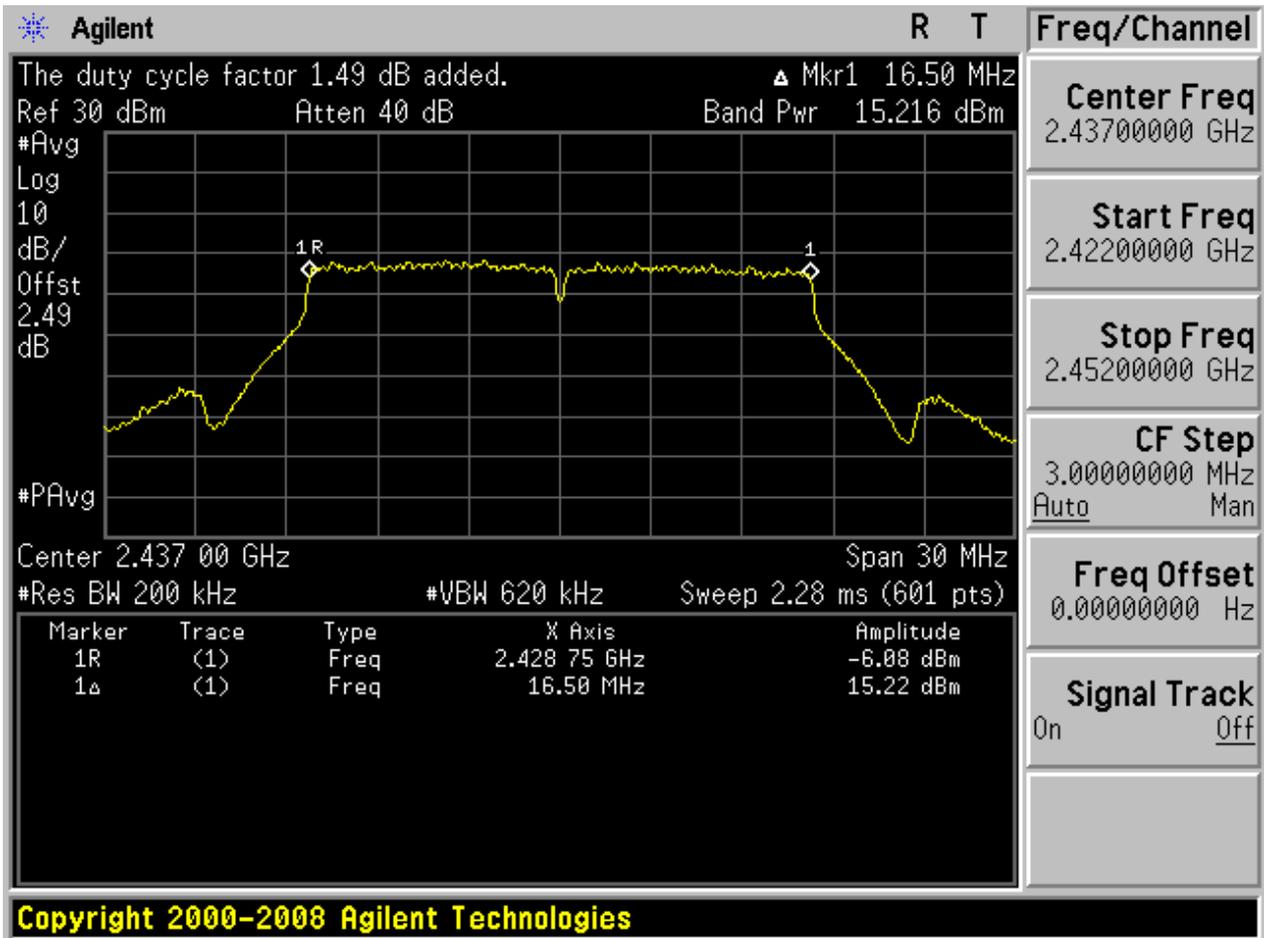
2.8 11G\_L@Ant 2



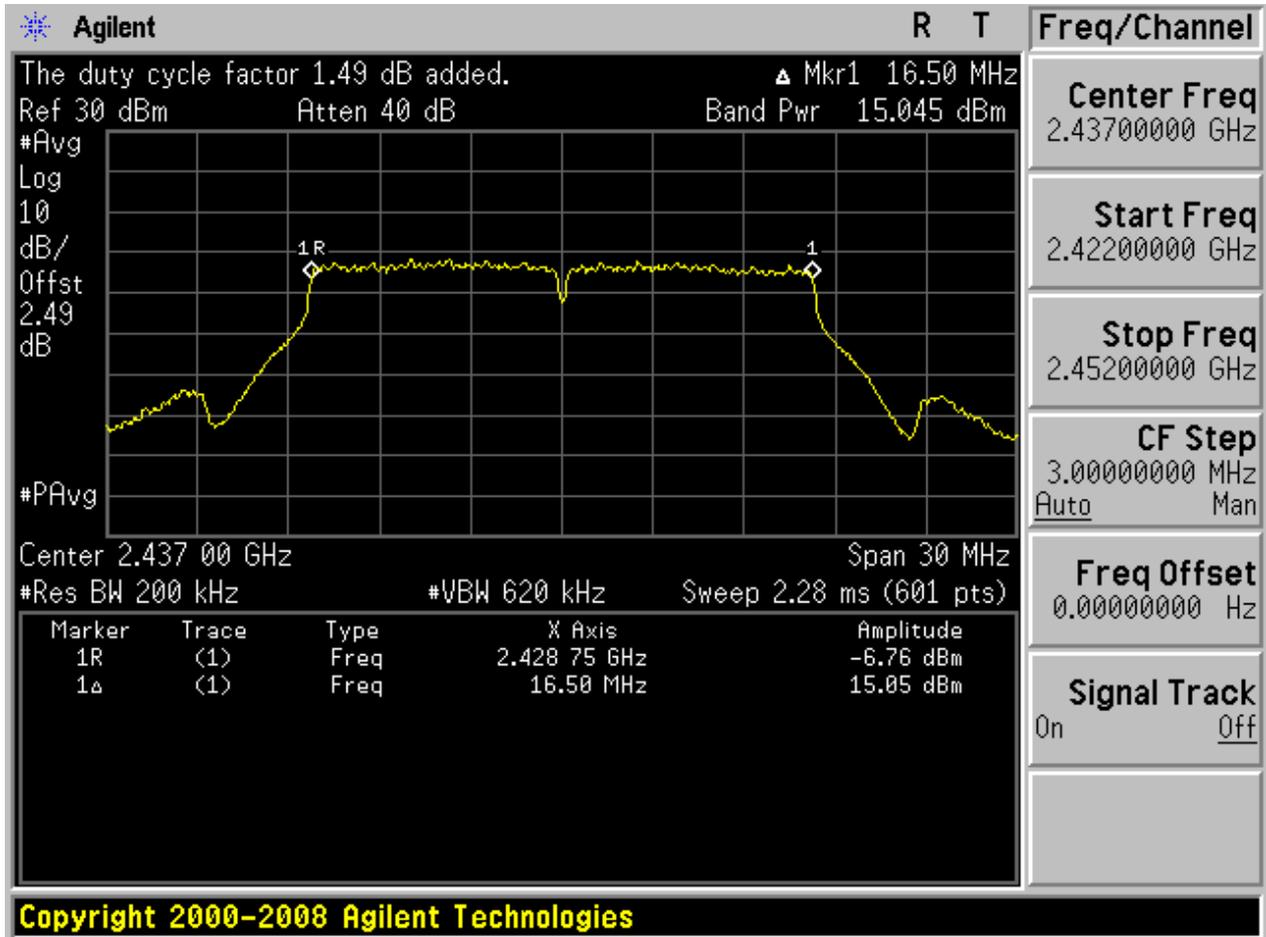
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2.9 11G\_M@Ant 1

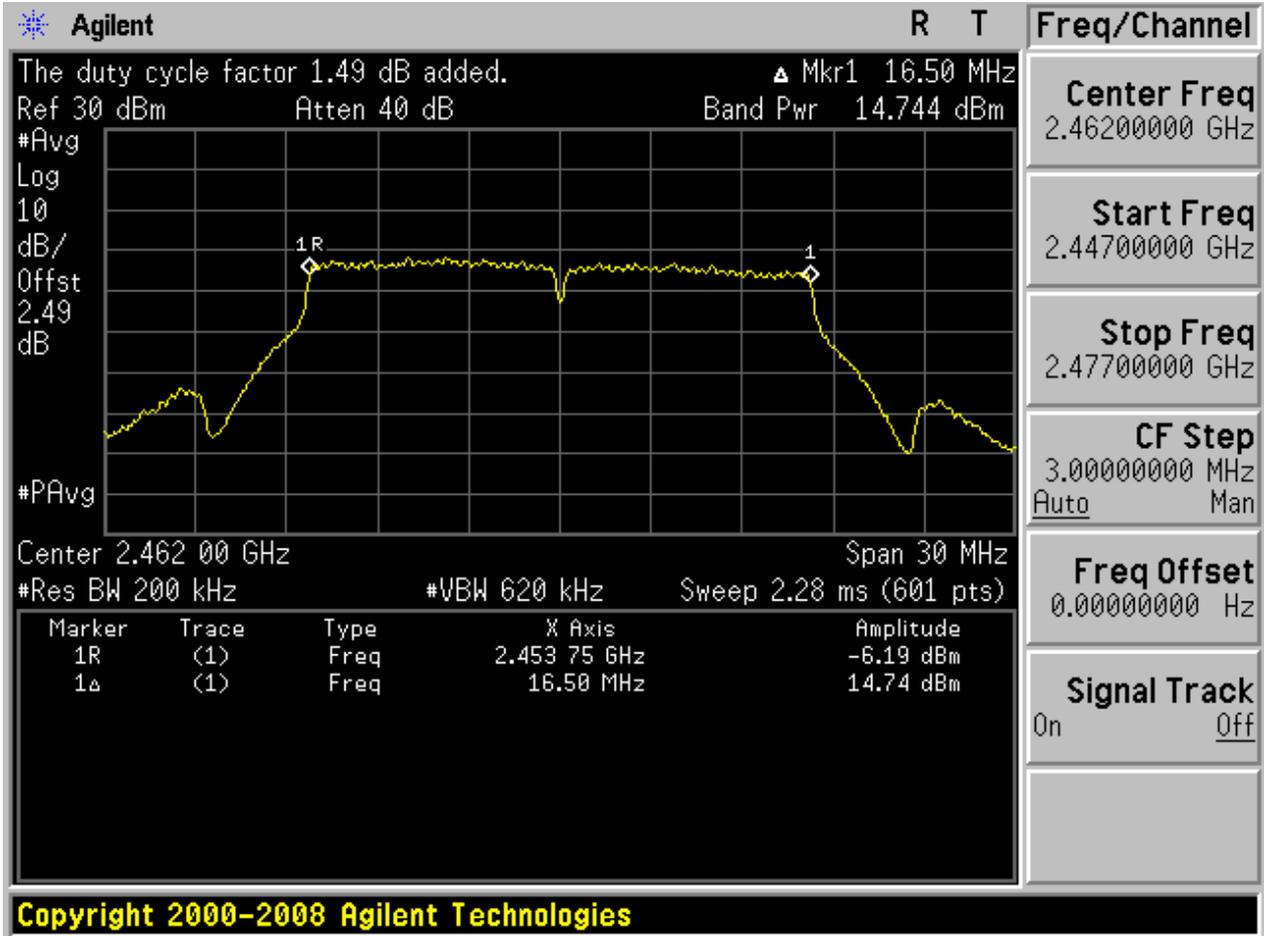


2.10 11G\_M@Ant 2

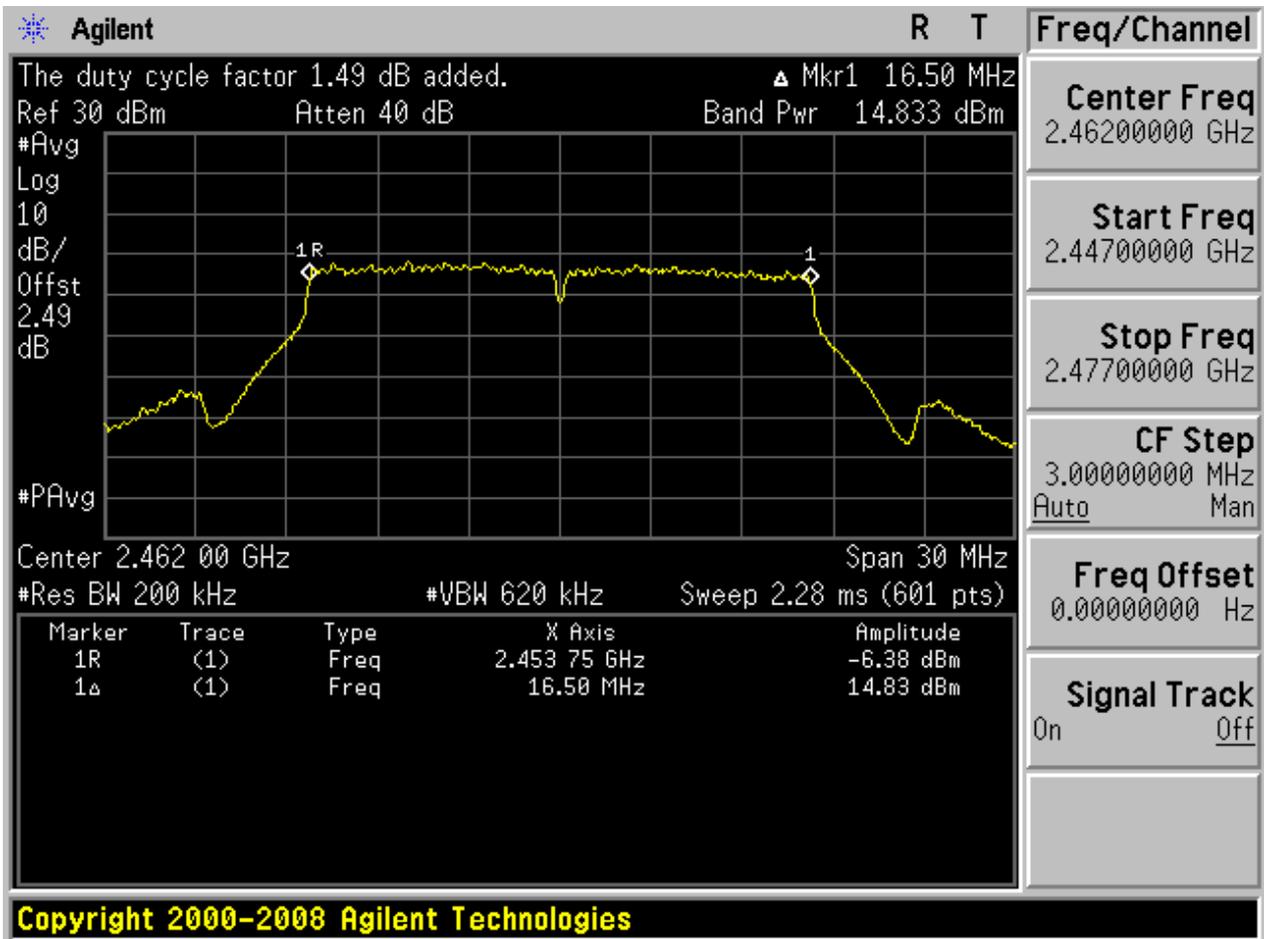


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2.11 11G\_H@Ant 1

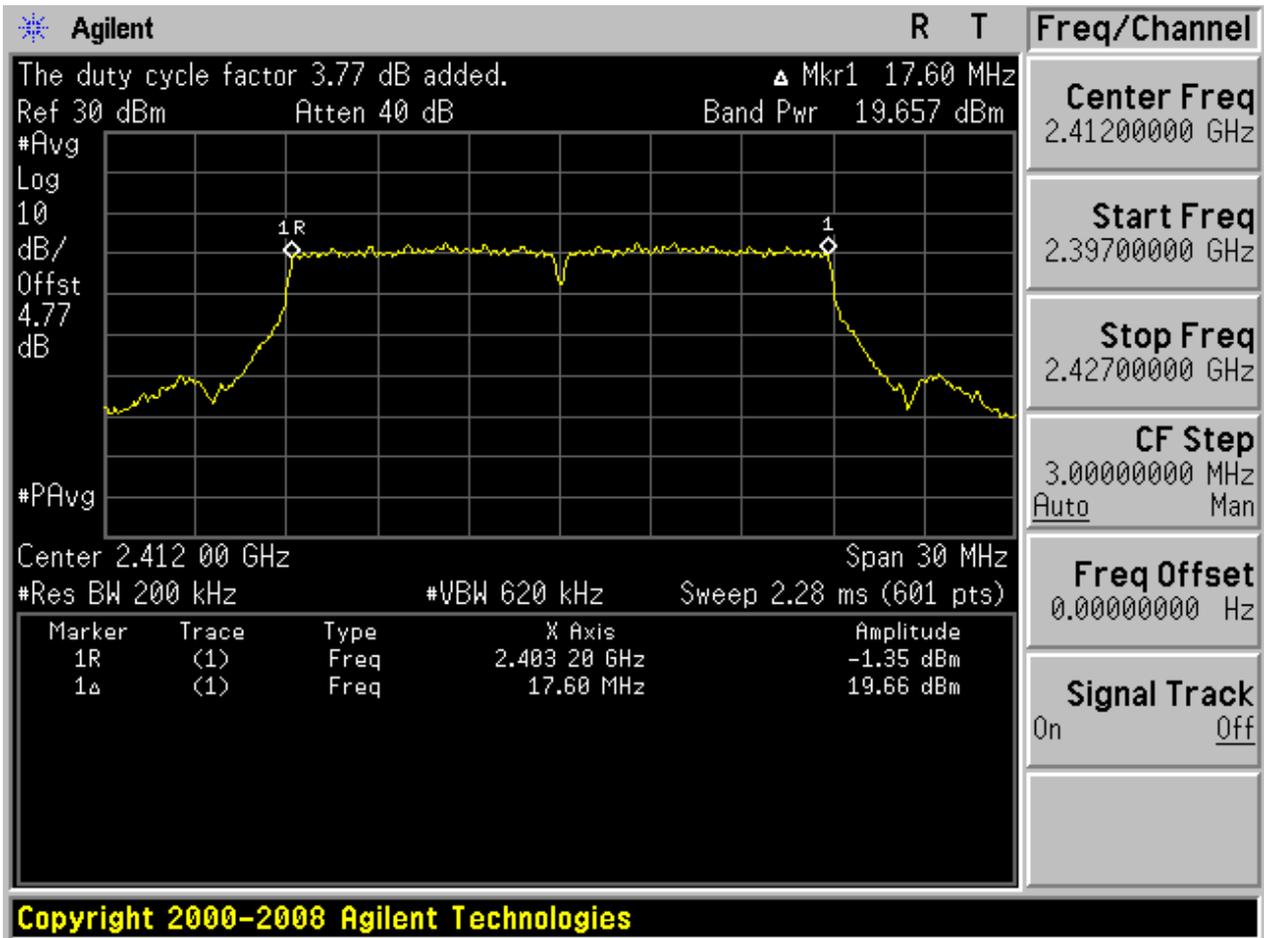


2.12 11G\_H@Ant 2



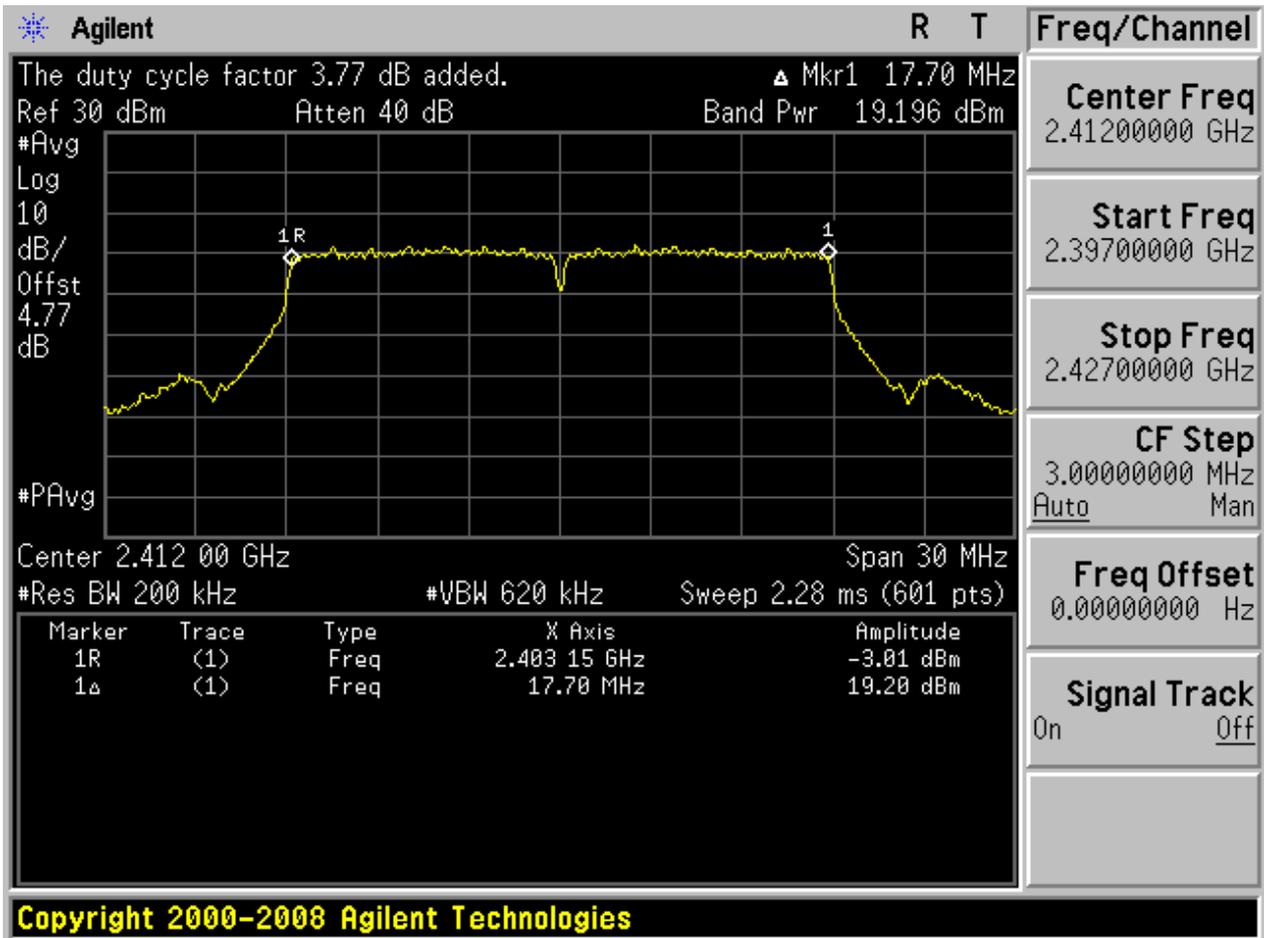


2.13 11N20\_L@Ant 1





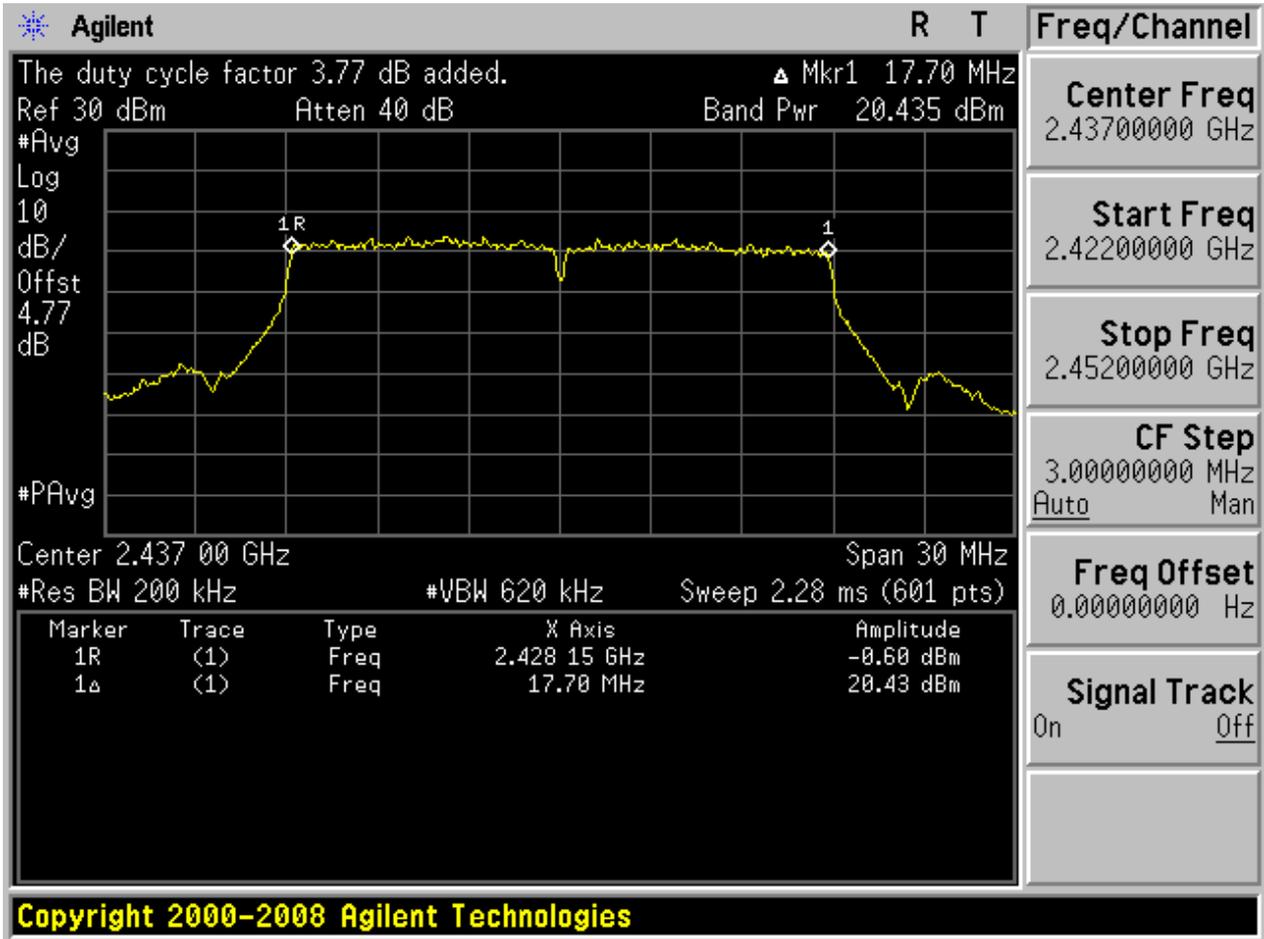
2.14 11N20\_L@Ant 2



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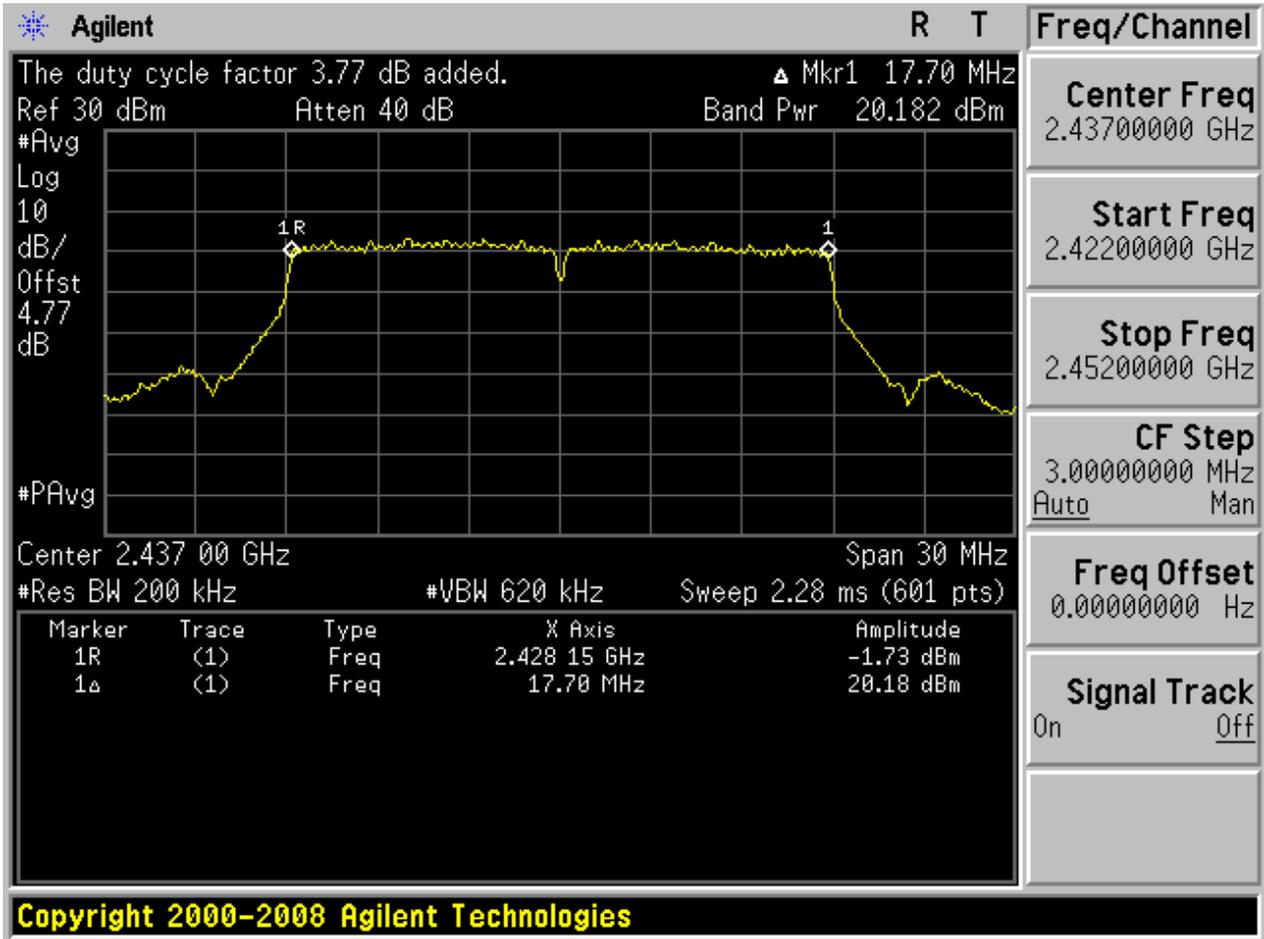


2.15 11N20\_M@Ant 1



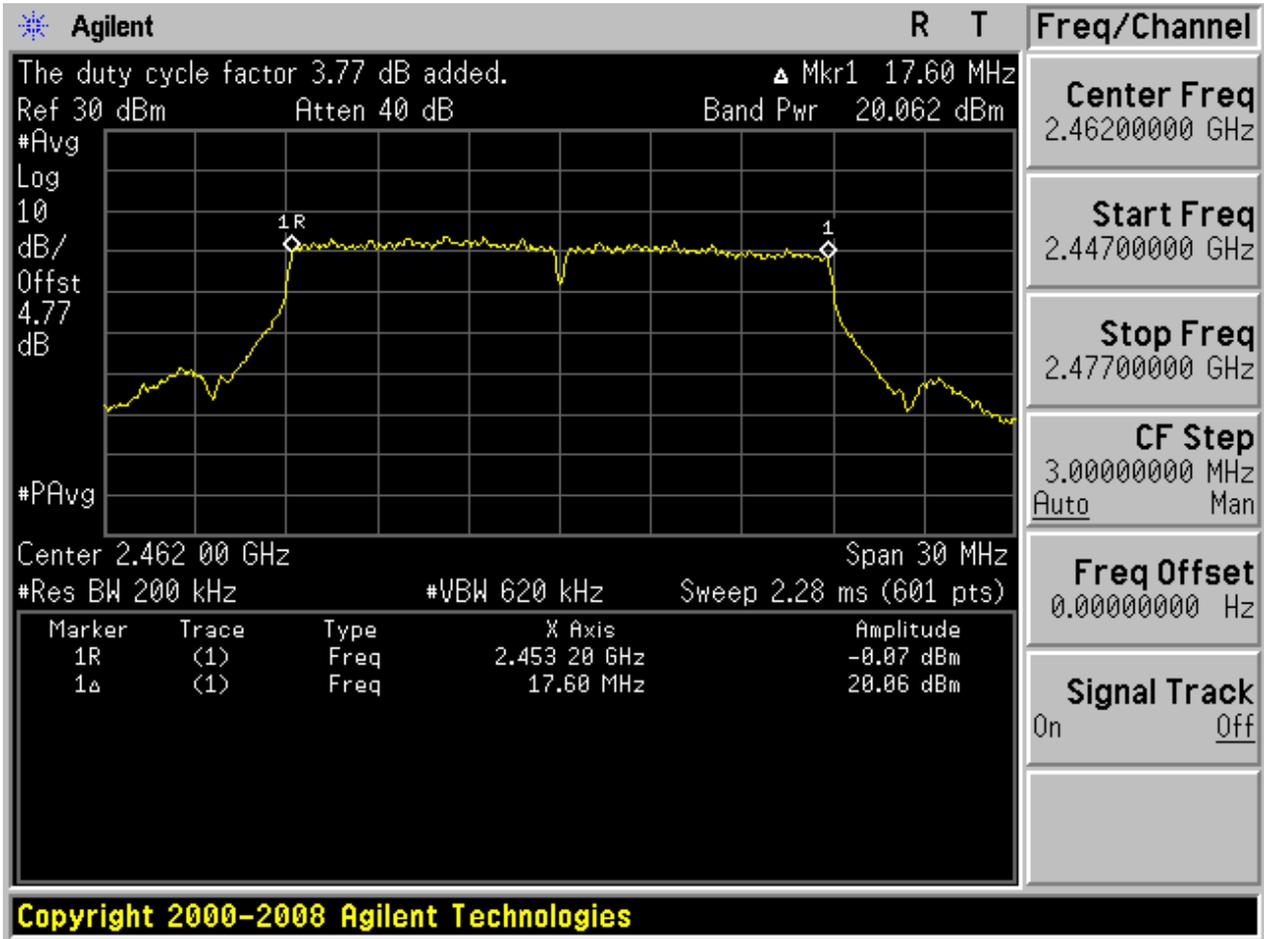


2.16 11N20\_M@Ant 2





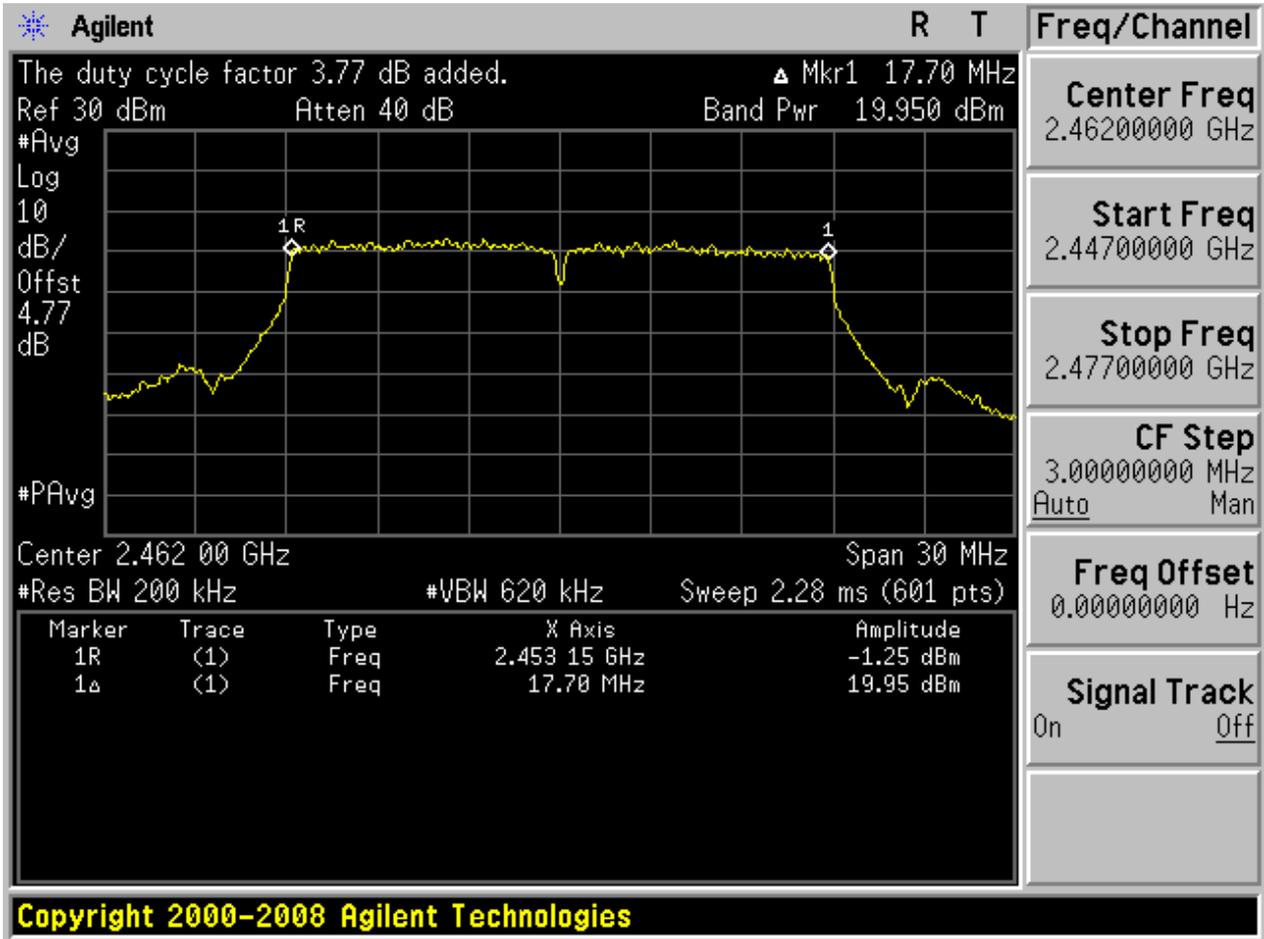
2.17 11N20\_H@Ant 1



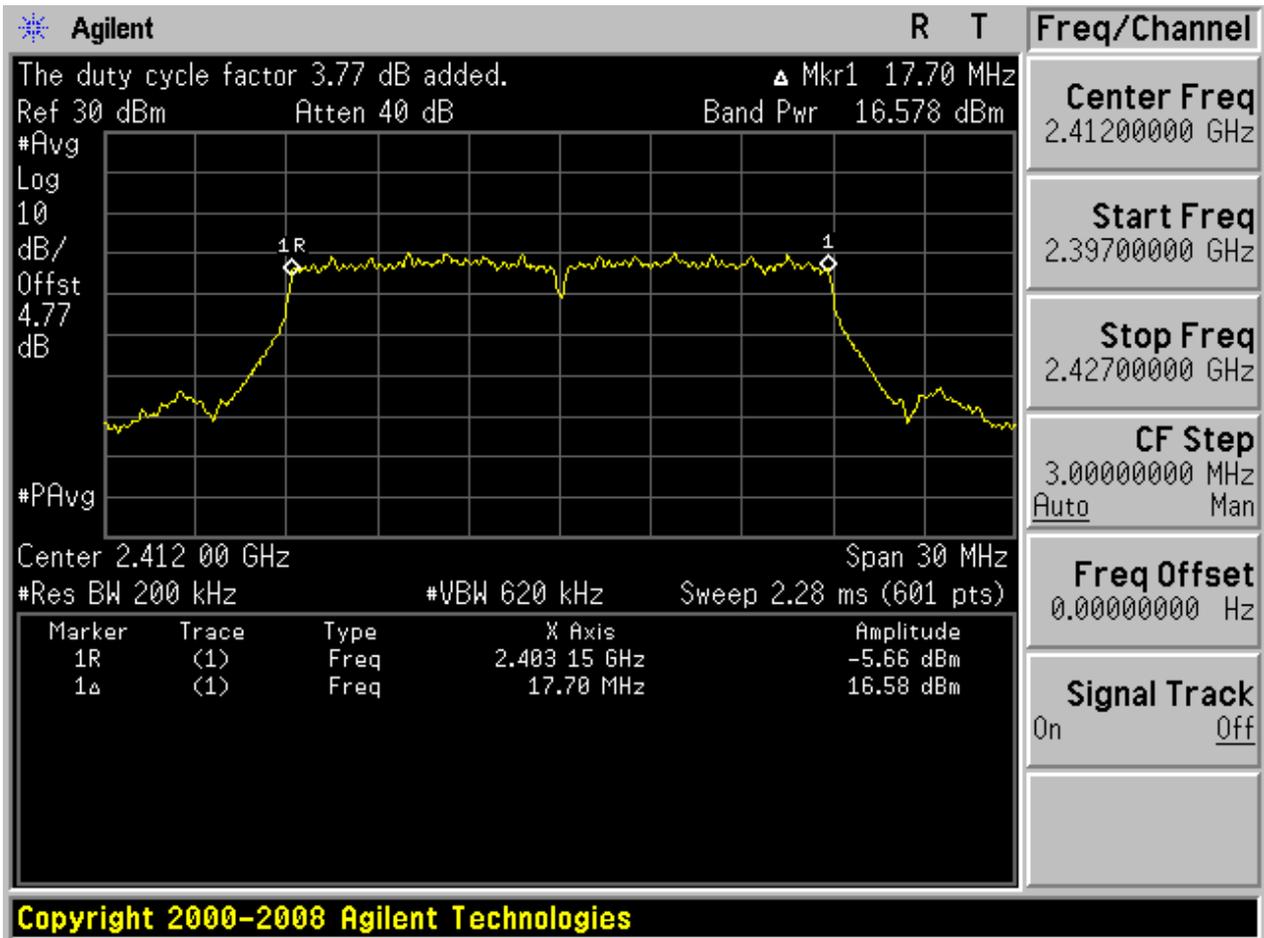
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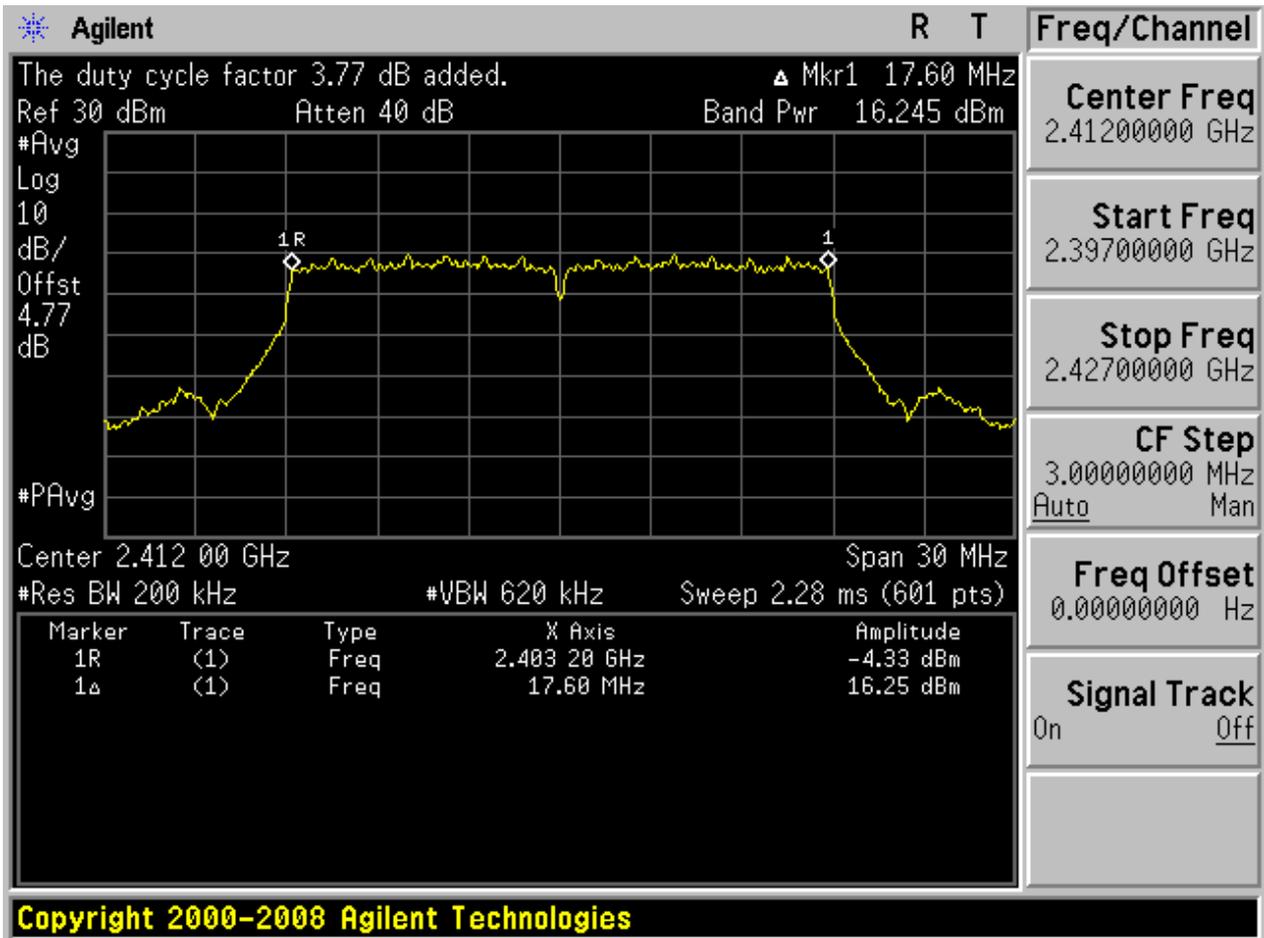
2.18 11N20\_H@Ant 2



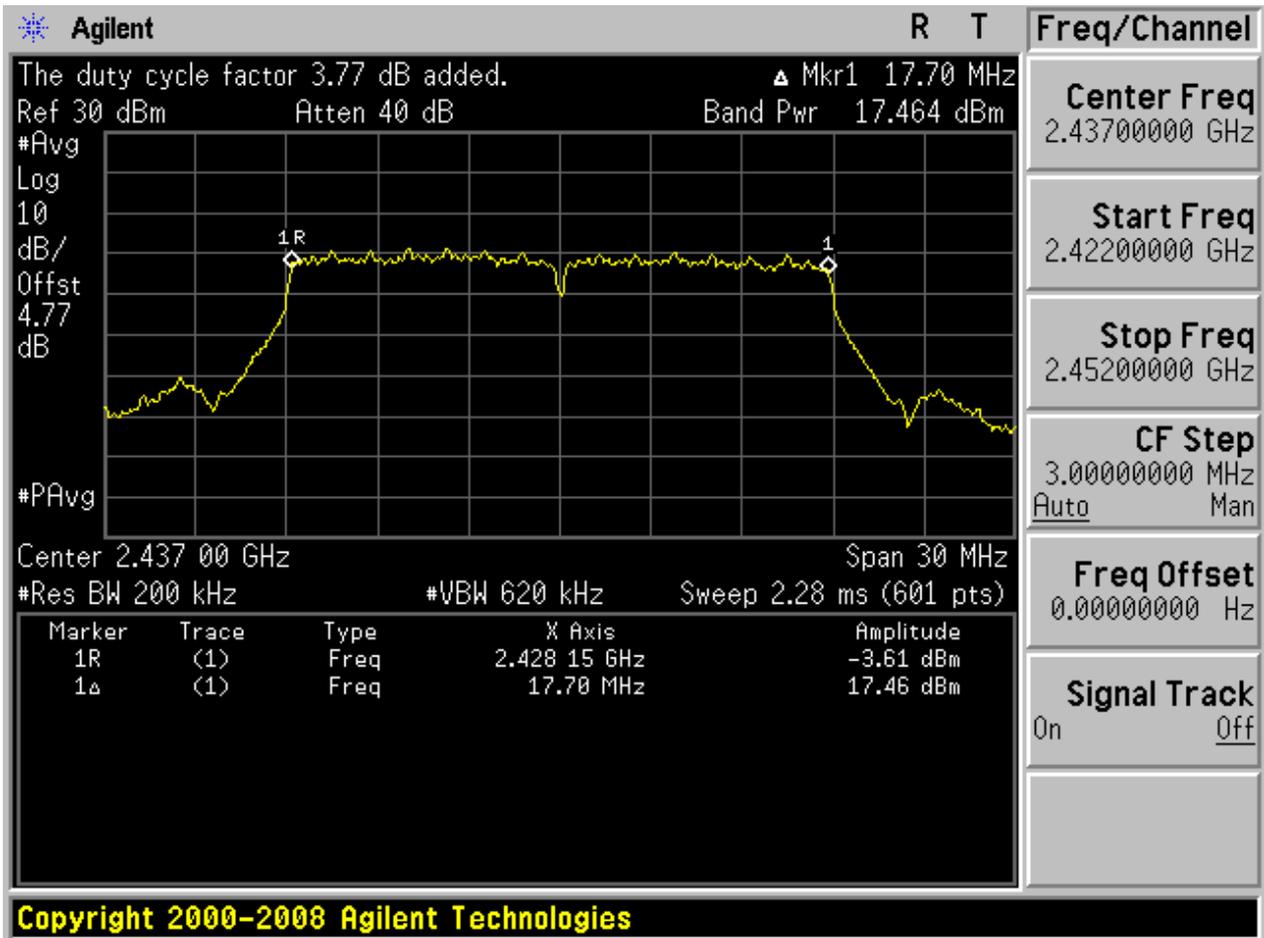
2.13 11N20m\_L@Ant 1



2.14 11N20m\_L@Ant 2

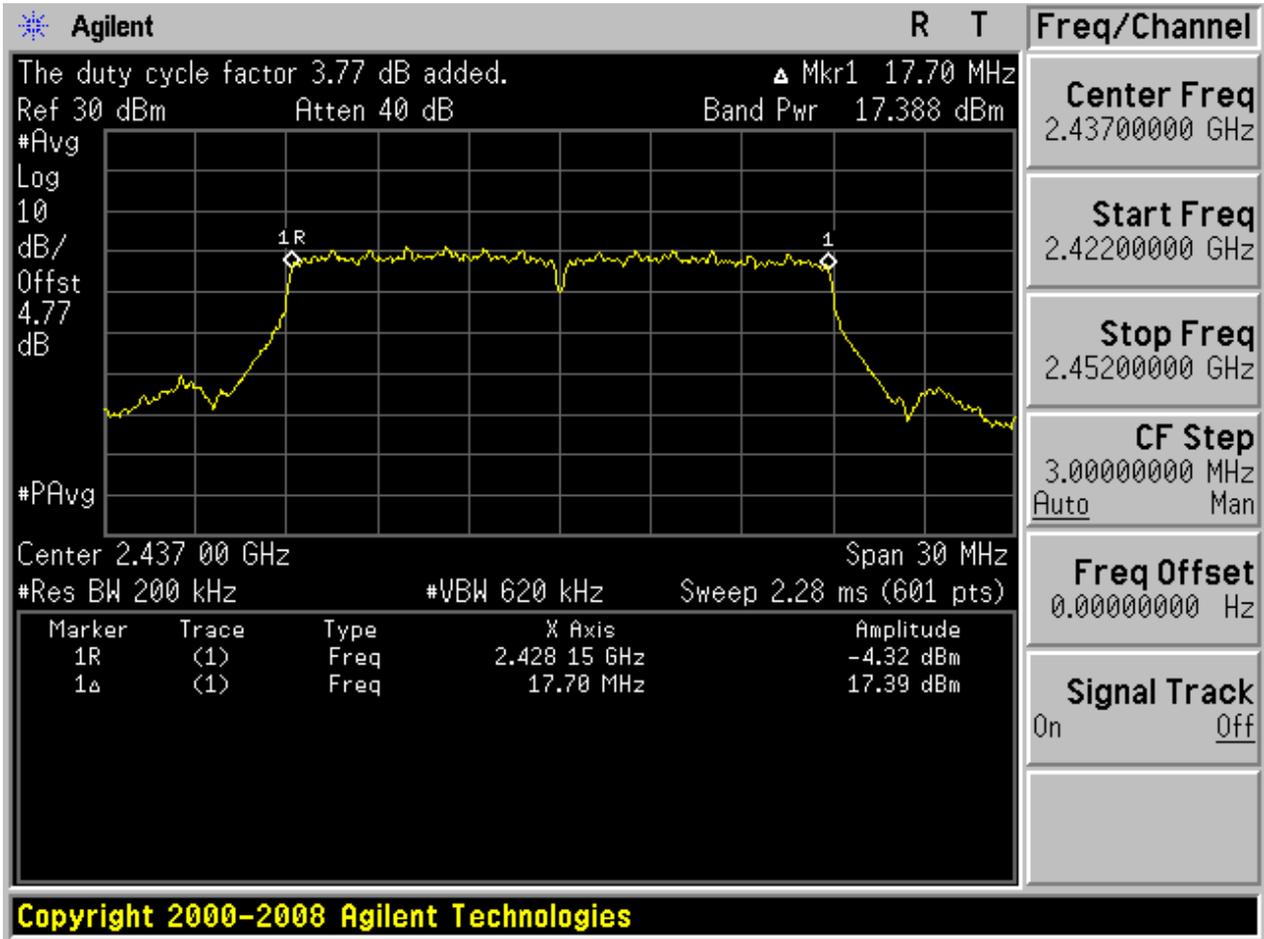


2.15 11N20m\_M@Ant 1



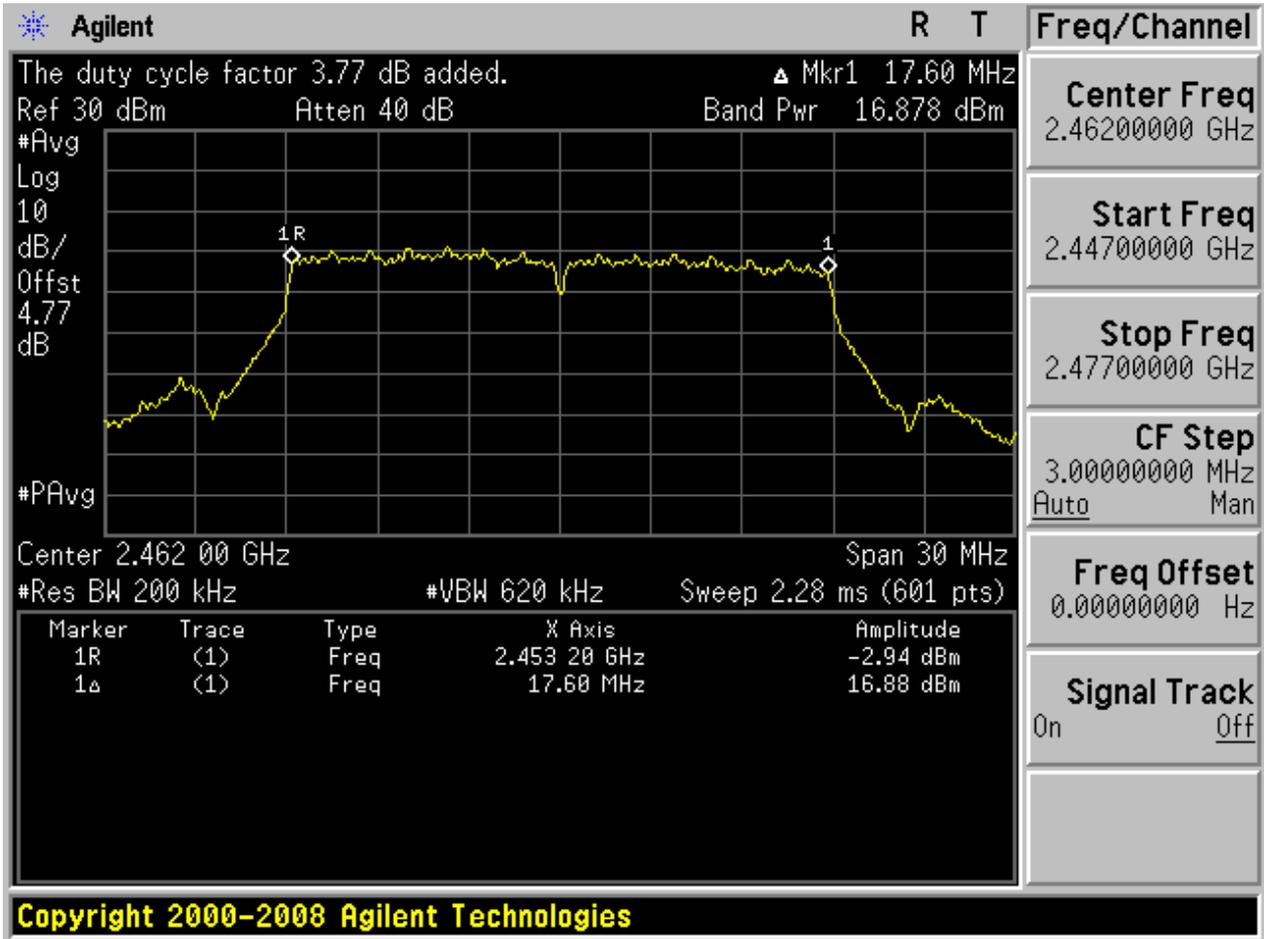


2.16 11N20m\_M@Ant 2



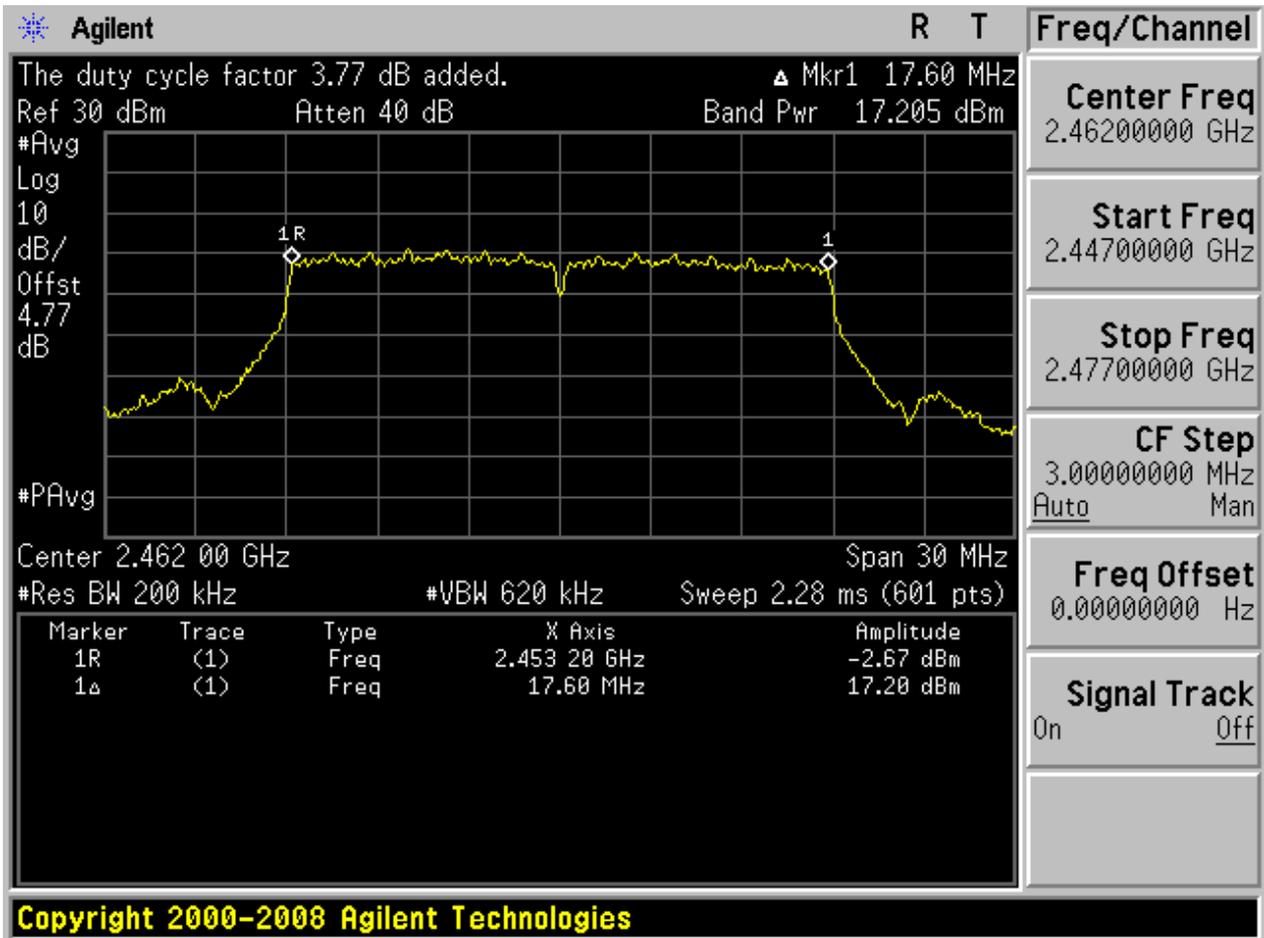


2.17 11N20m\_H@Ant 1



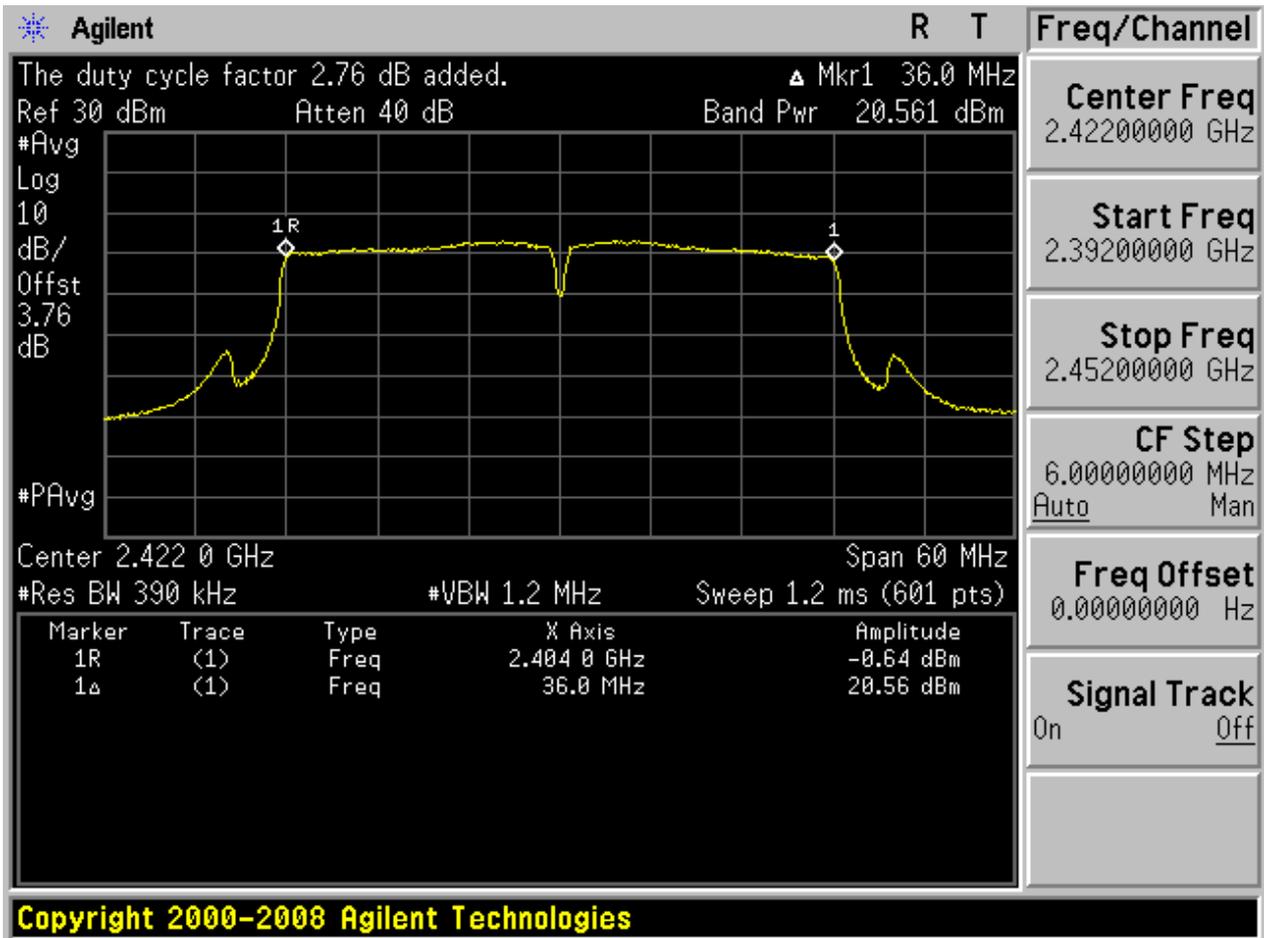
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2.18 11N20m\_H@Ant 2





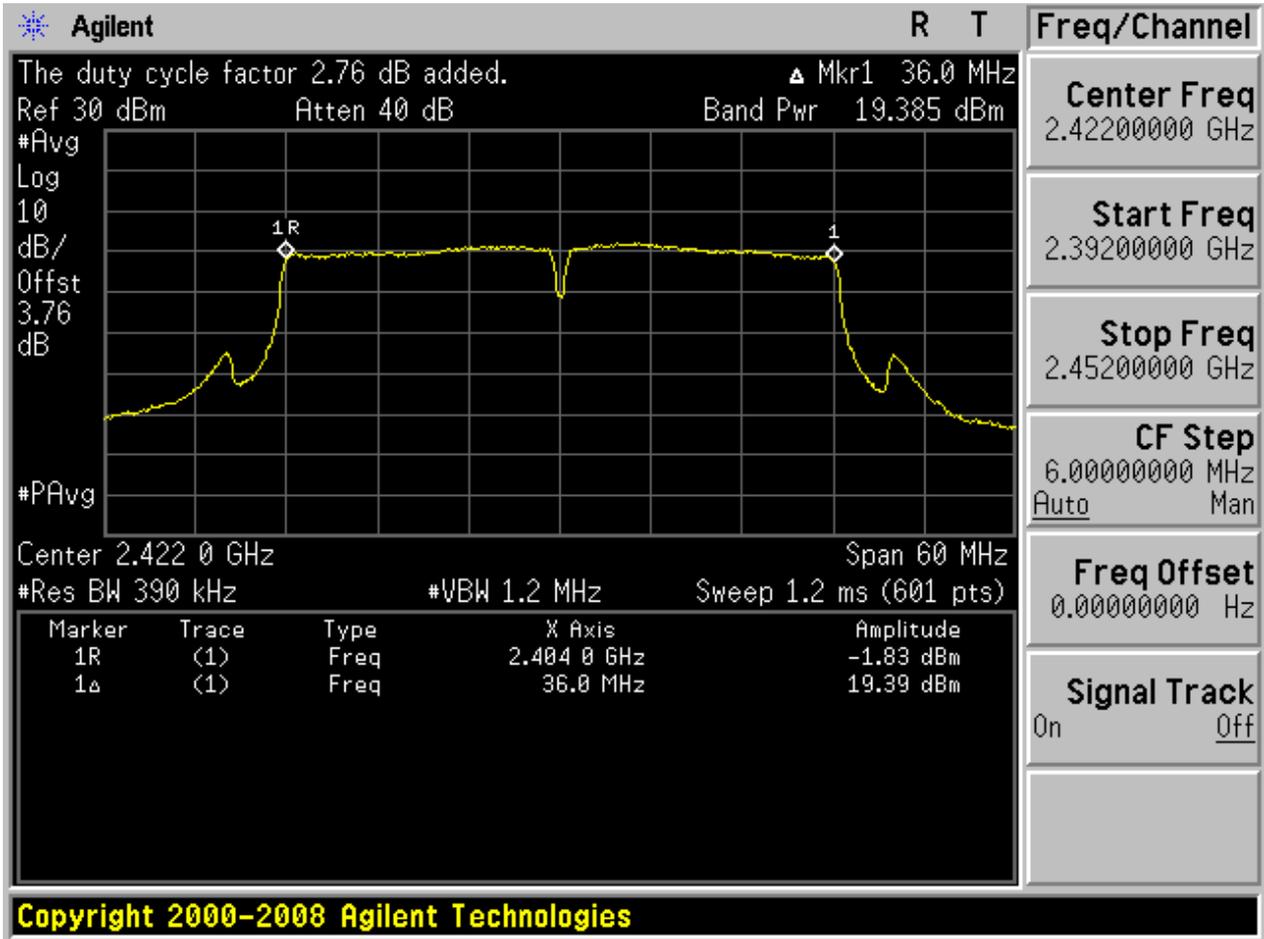
2.19 11N40\_L@Ant 1



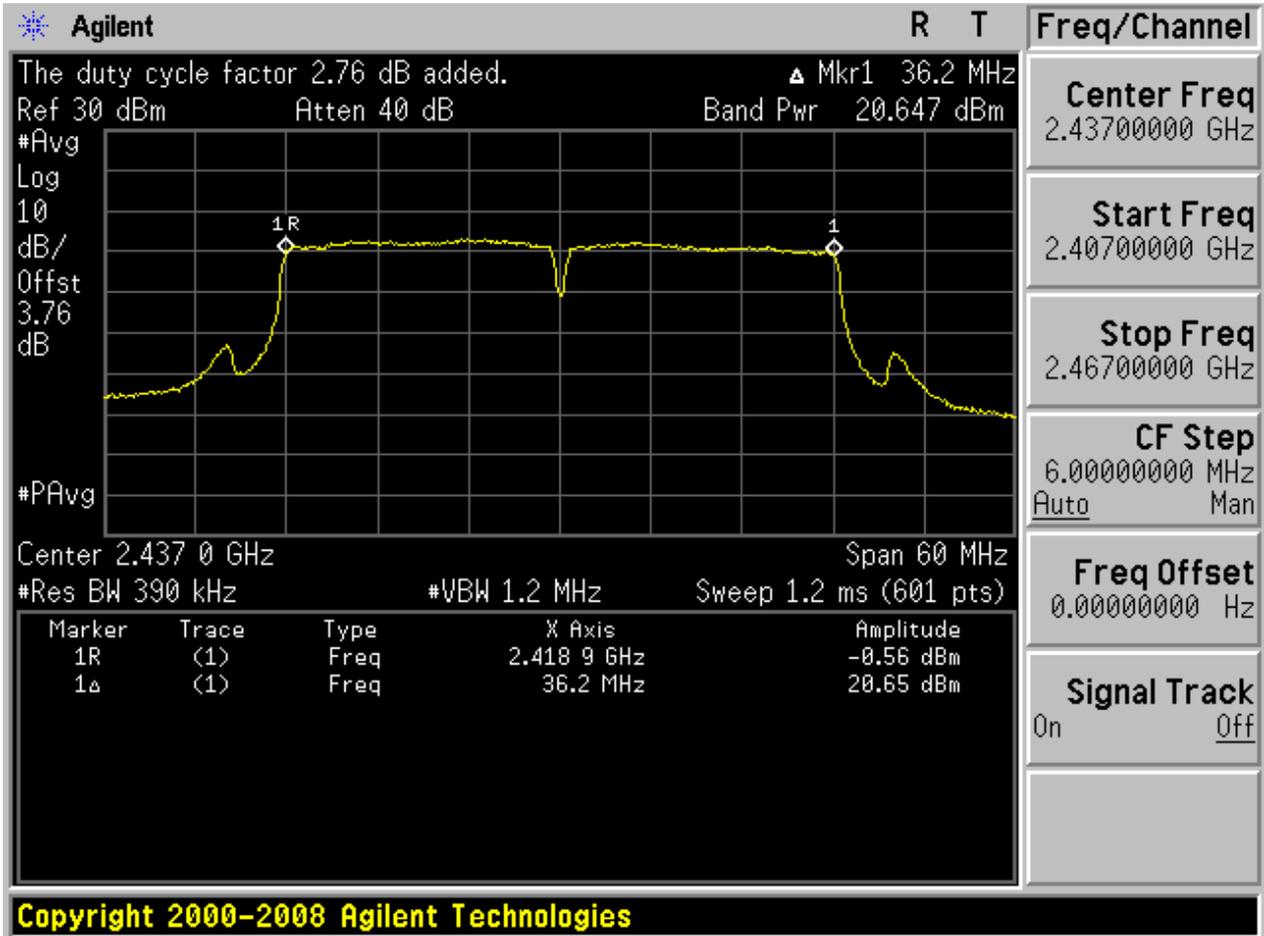
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2.20 11N40\_L@Ant 2

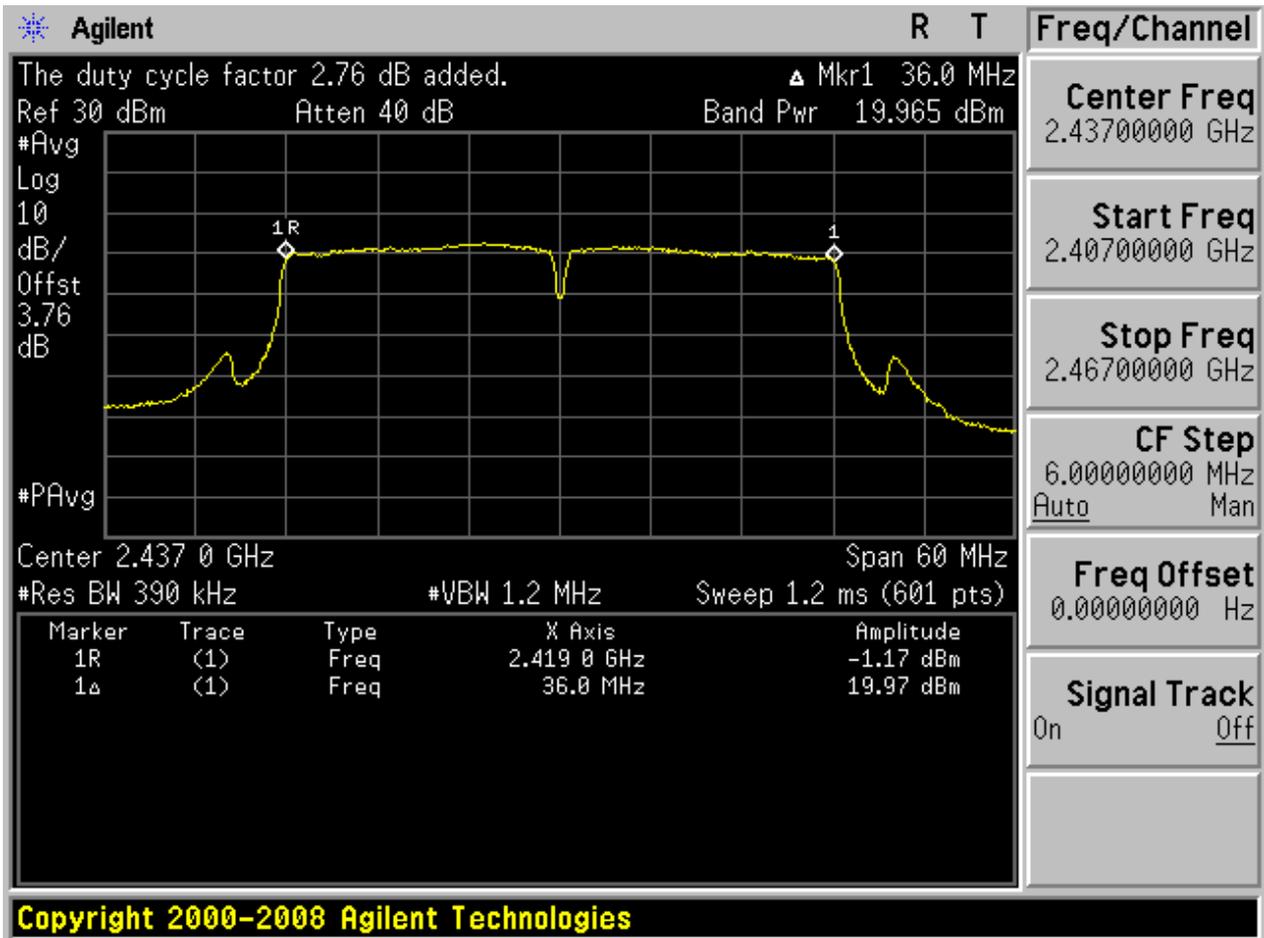


2.21 11N40\_M@Ant 1



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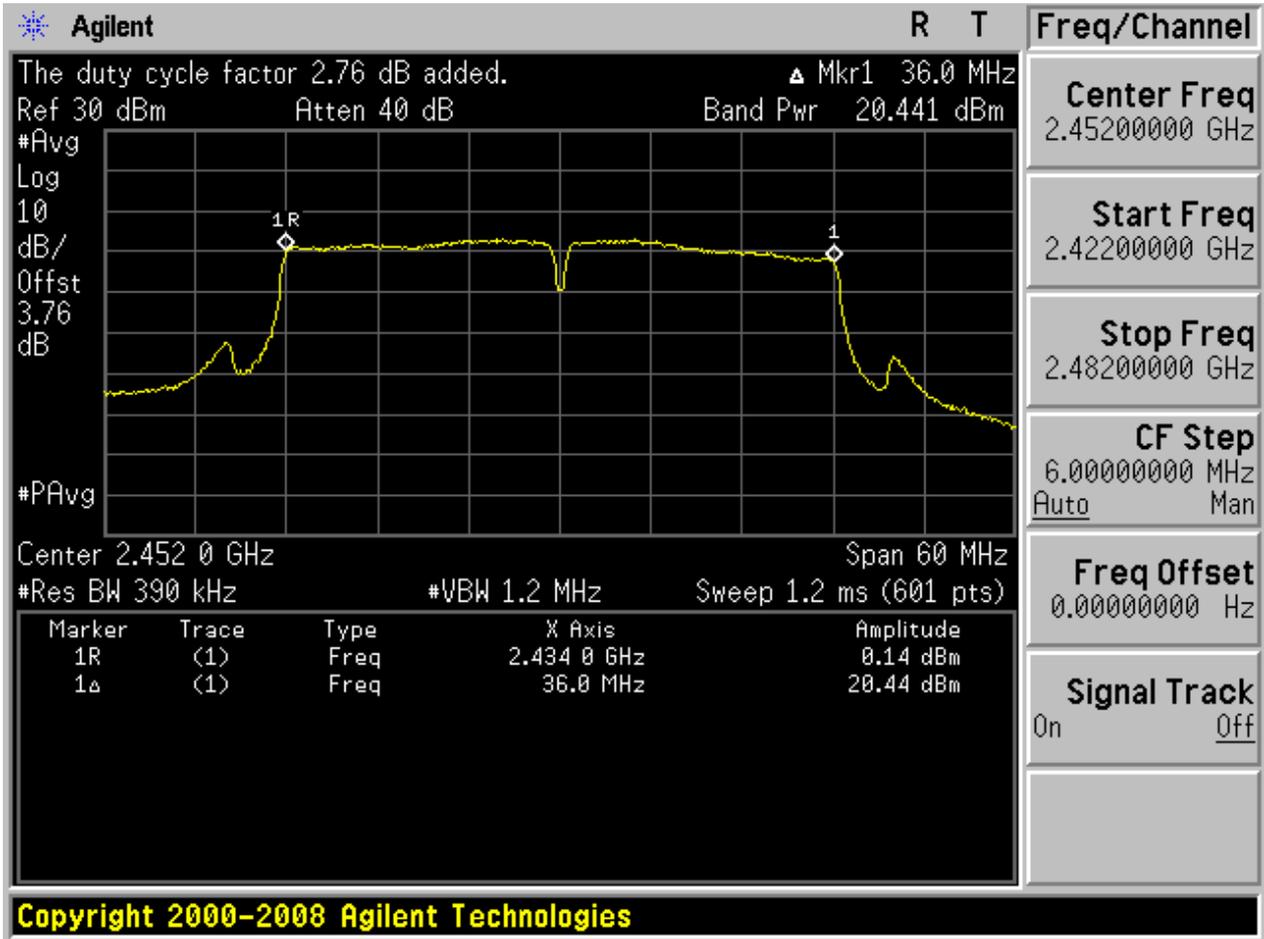
2.22 11N40\_M@Ant 2



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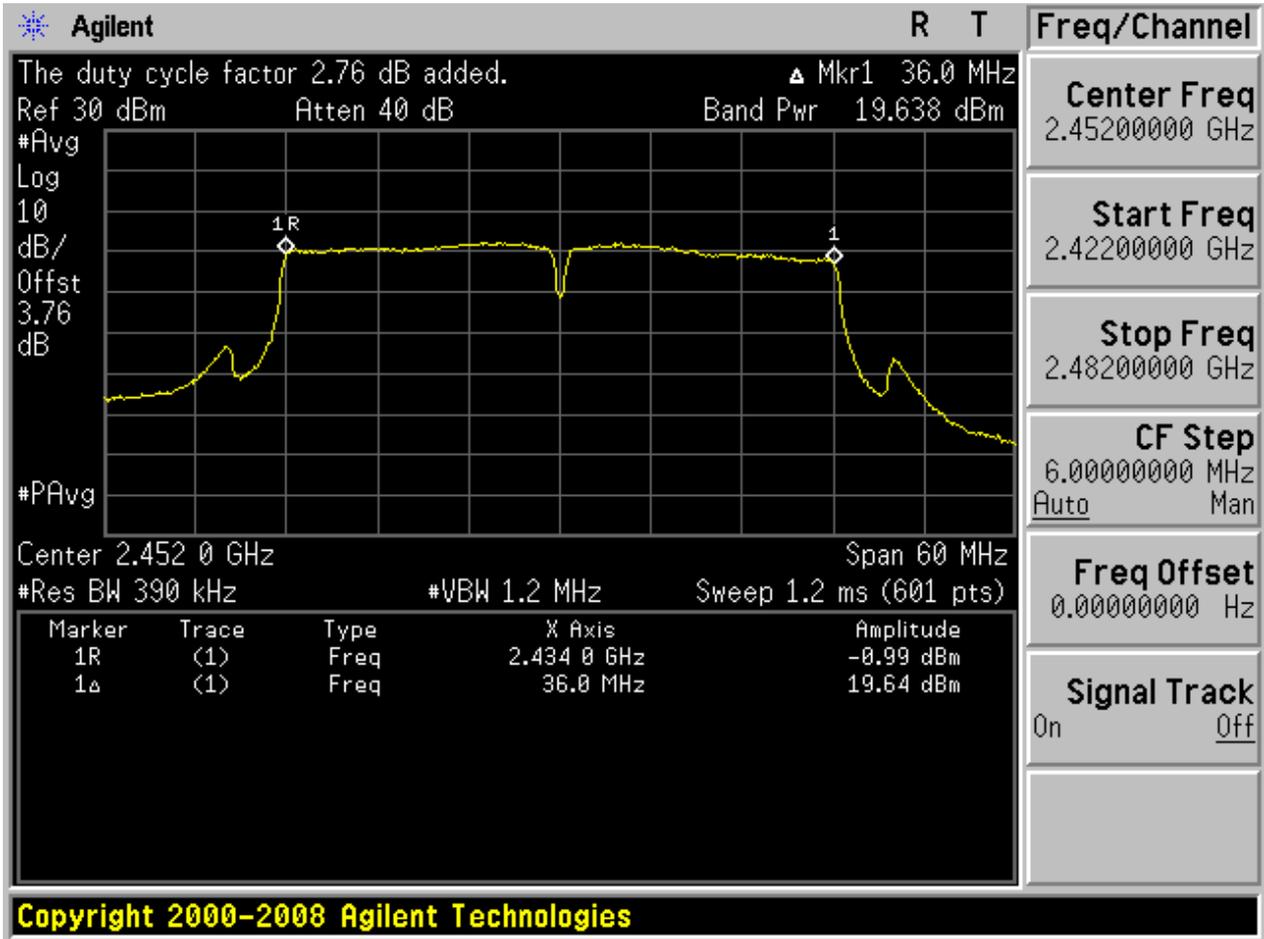


2.23 11N40\_H@Ant 1





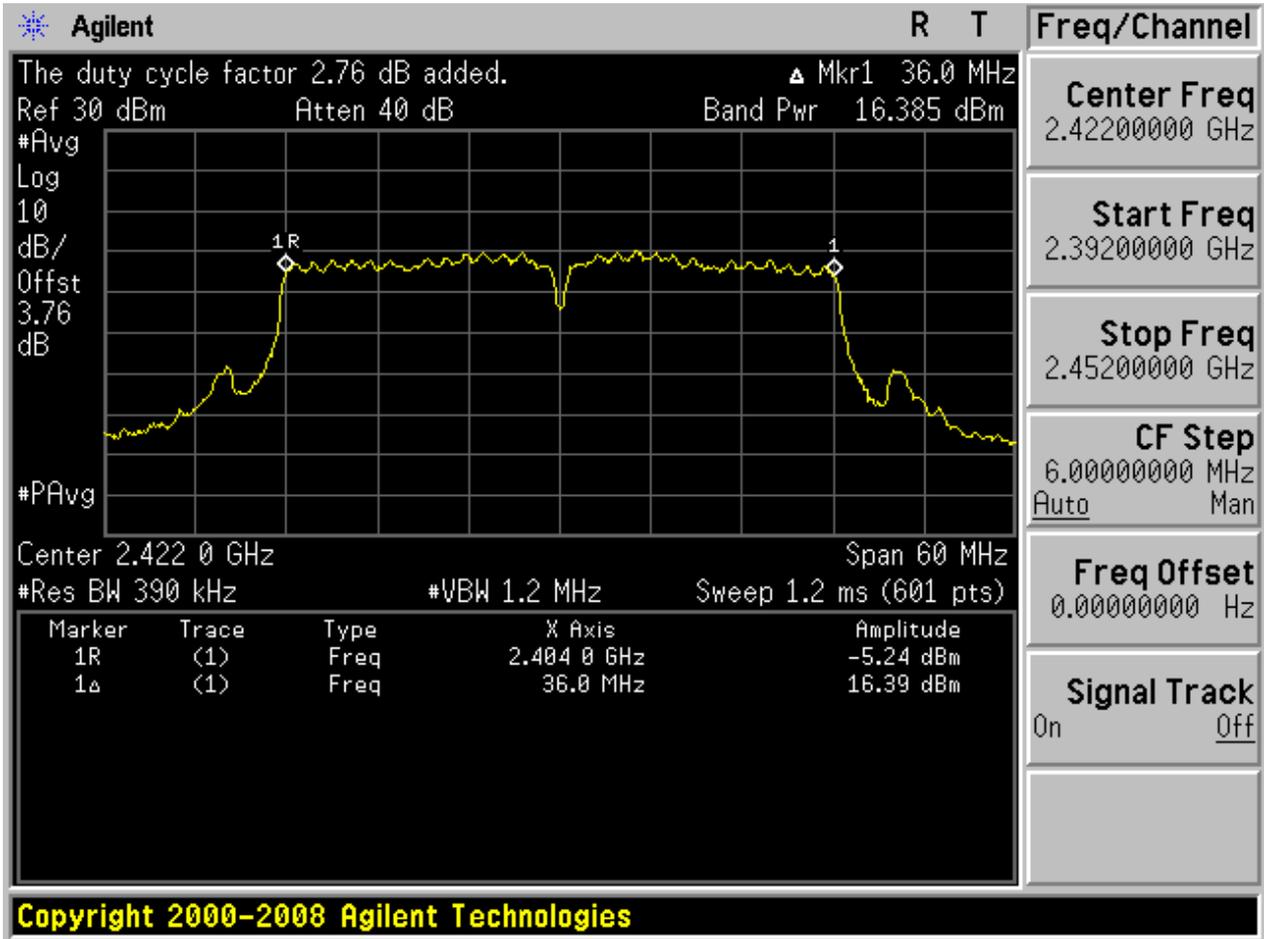
2.24 11N40\_H@Ant 2



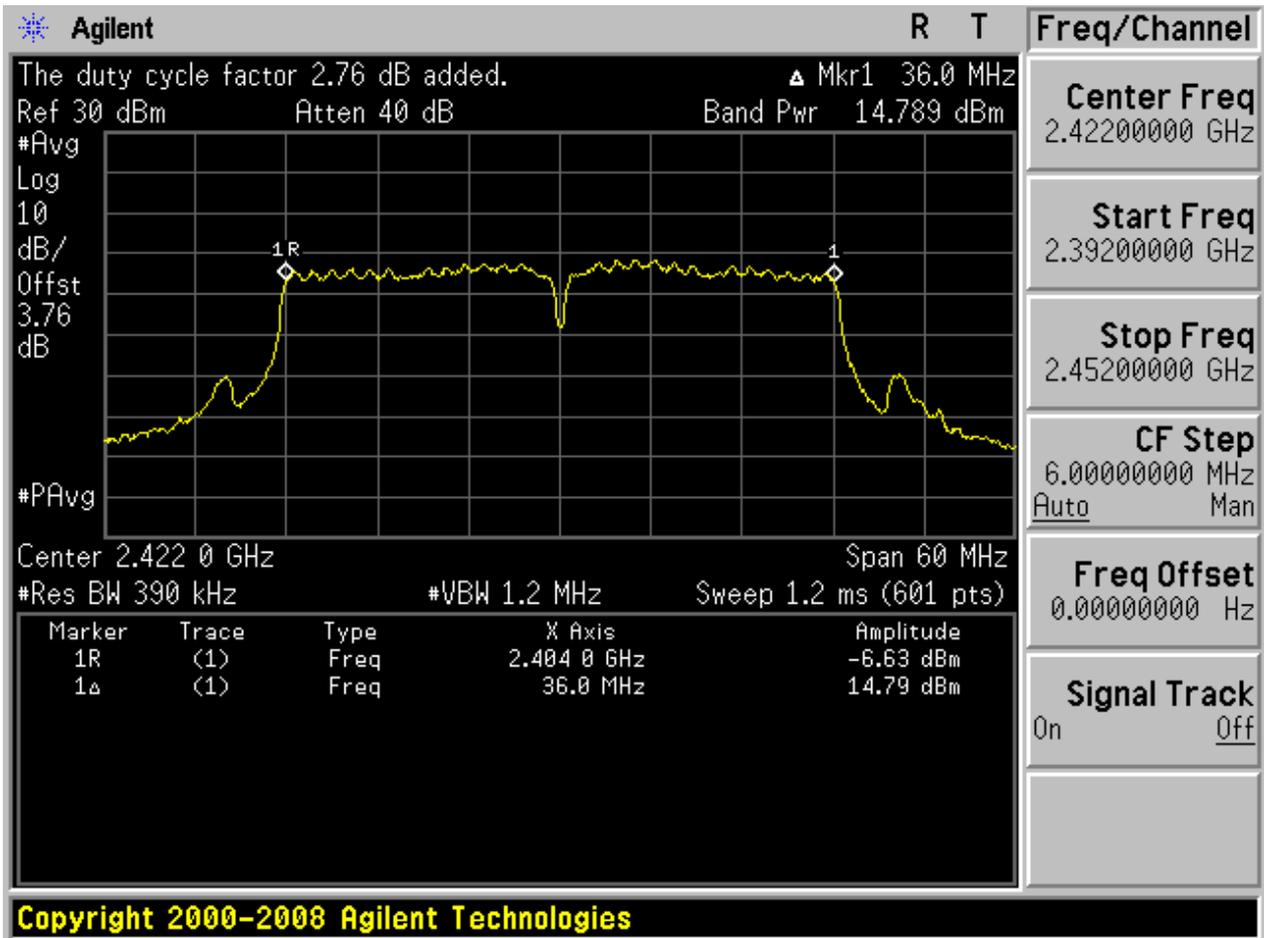
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2.31 11N40m\_L@Ant 1



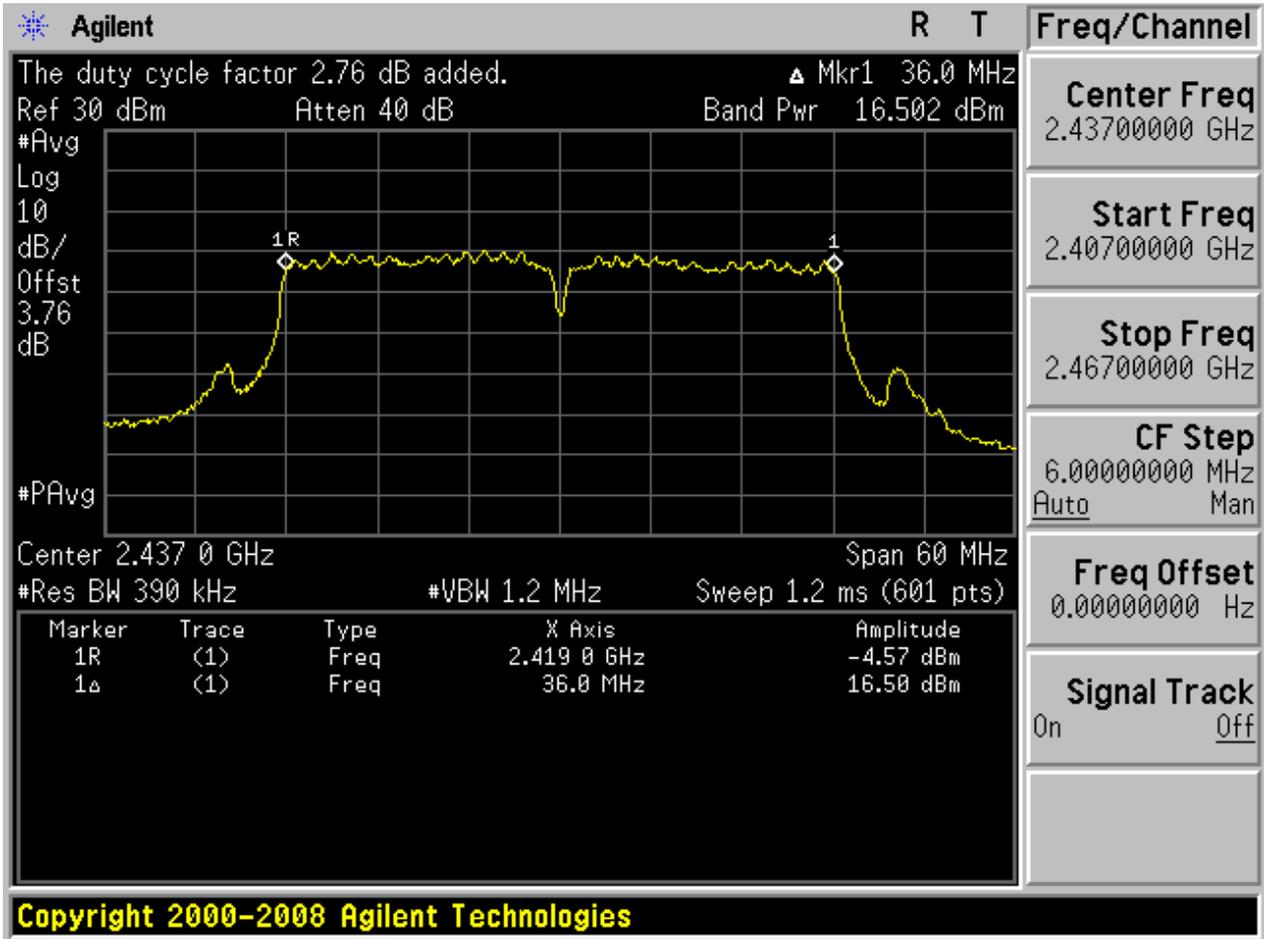
2.32 11N40m\_L@Ant 2



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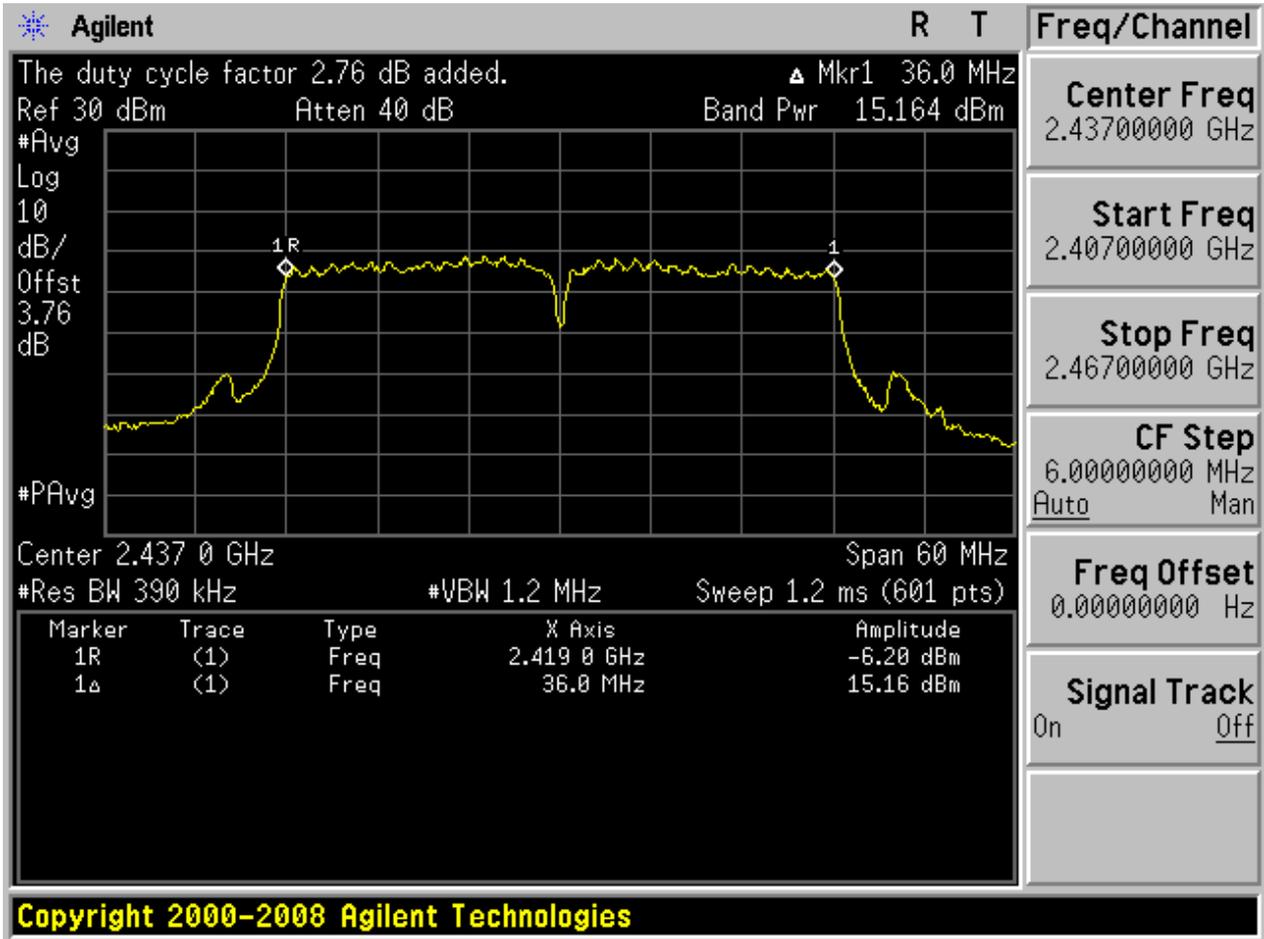


2.33 11N40m\_M@Ant 1



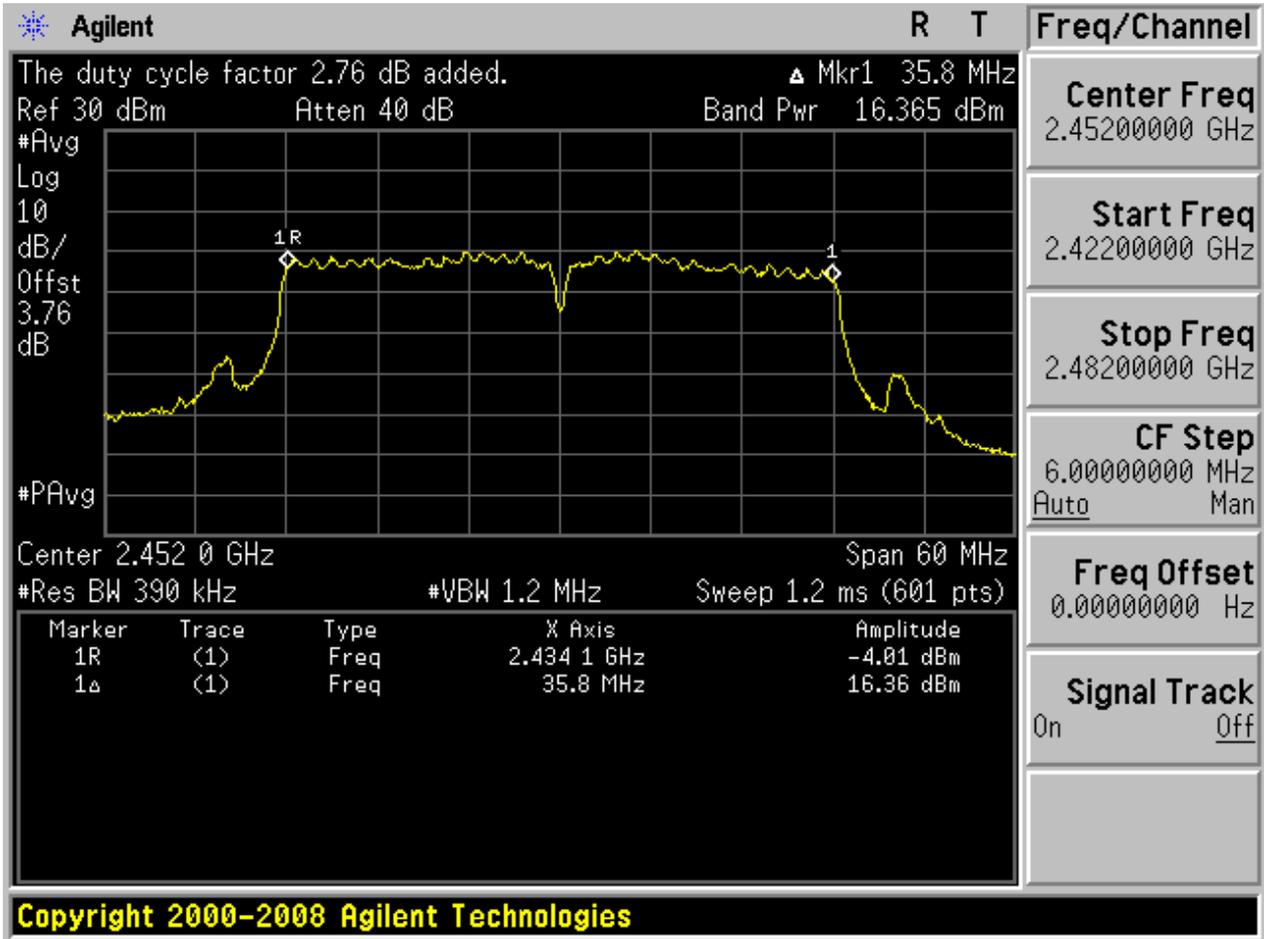


2.34 11N40m\_M@Ant 2



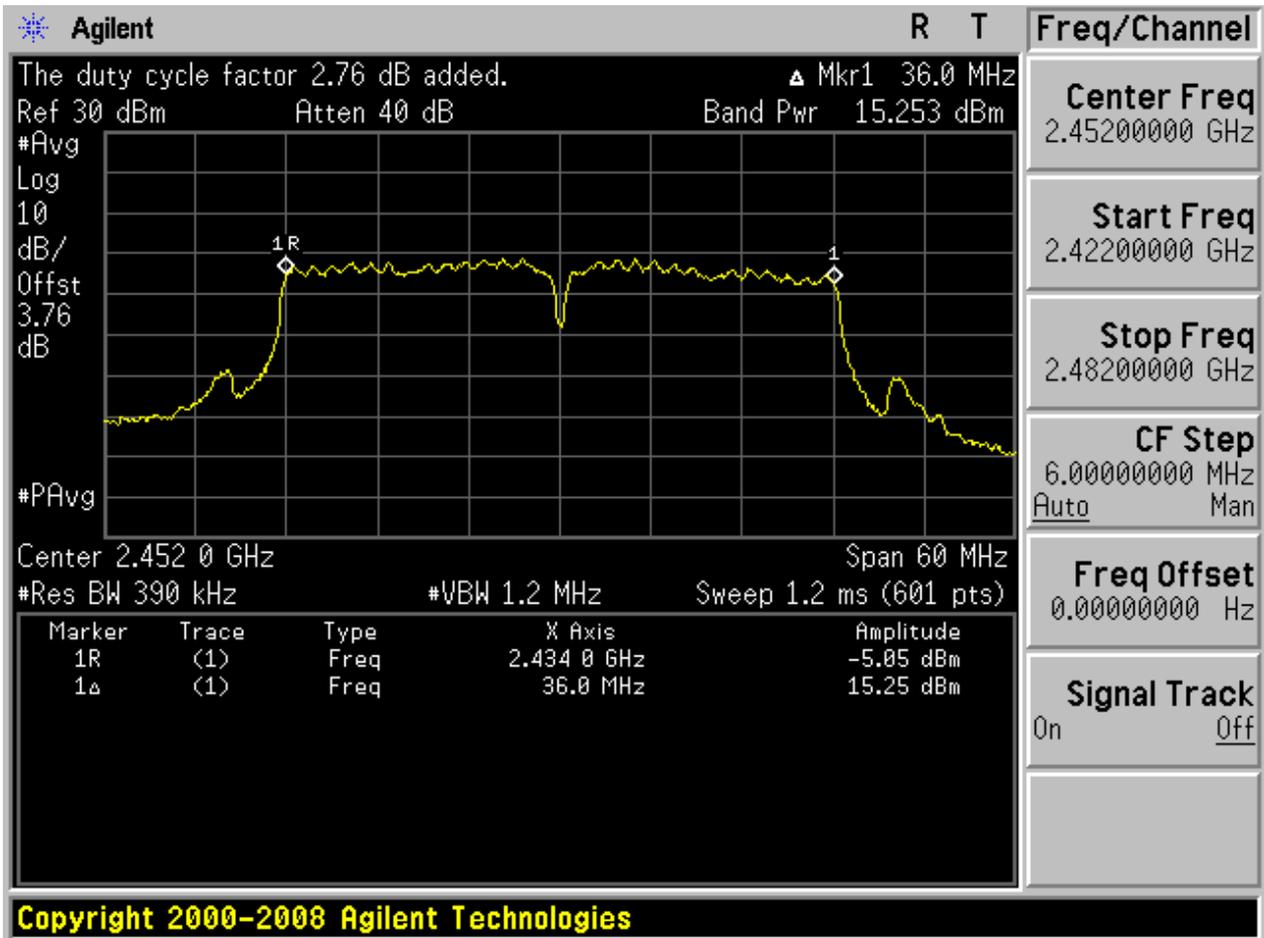


2.35 11N40m\_H@Ant 1



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2.36 11N40m\_H@Ant 2



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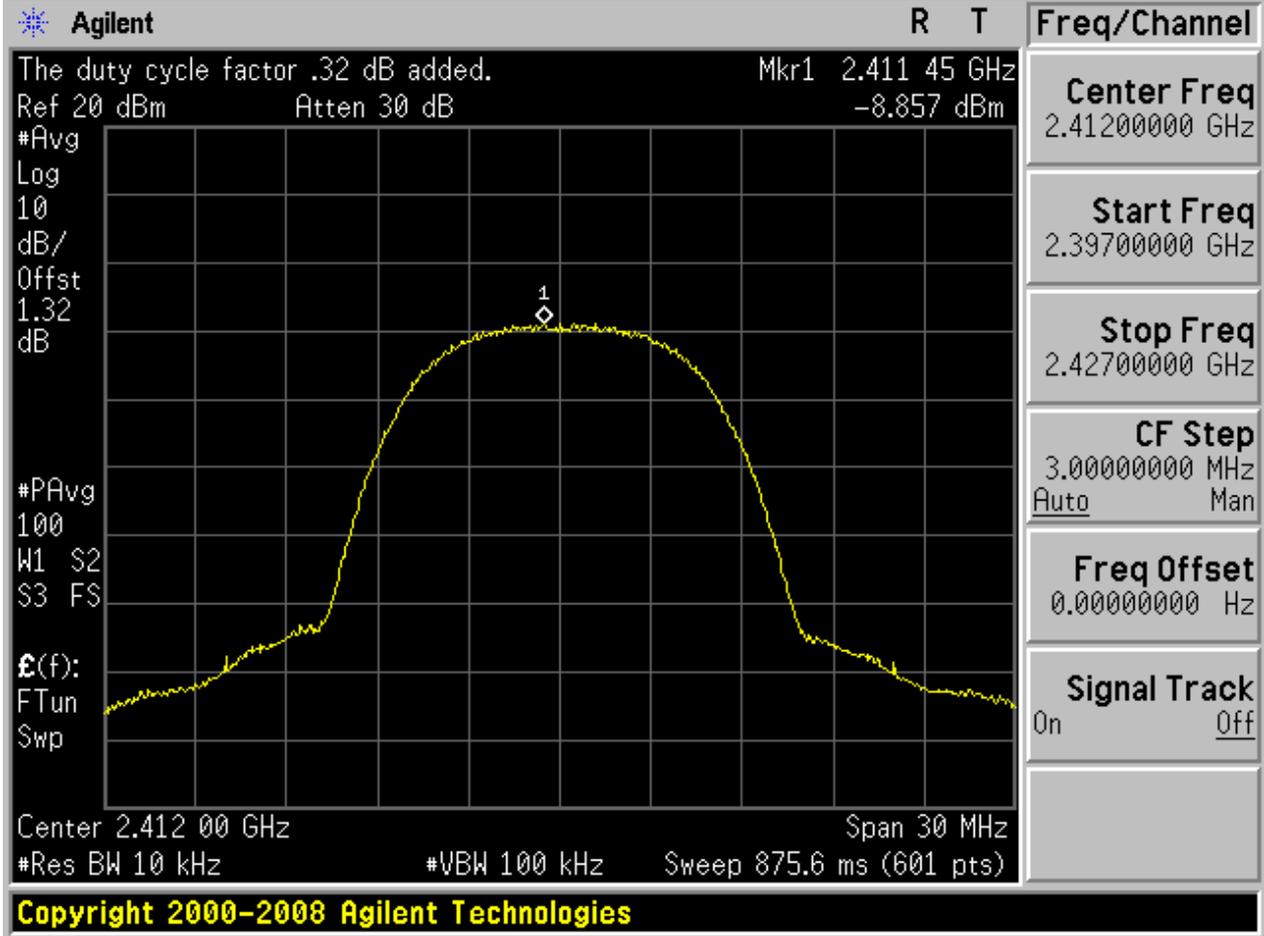
## Appendix D: Maximum Power Spectral Density Level

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11B	L	2412	Ant 1	-8.86	pass
11B	L	2412	Ant 2	-9.66	pass
11B	M	2437	Ant 1	-8.47	pass
11B	M	2437	Ant 2	-8.60	pass
11B	H	2462	Ant 1	-9.08	pass
11B	H	2462	Ant 2	-8.86	pass
11G	L	2412	Ant 1	-10.78	pass
11G	L	2412	Ant 2	-14.41	pass
11G	M	2437	Ant 1	-12.91	pass
11G	M	2437	Ant 2	-13.25	pass
11G	H	2462	Ant 1	-13.12	pass
11G	H	2462	Ant 2	-13.41	pass
11N20	L	2412	Ant 1	-8.20	pass
11N20	L	2412	Ant 2	-8.82	pass
11N20	M	2437	Ant 1	-7.16	pass
11N20	M	2437	Ant 2	-7.70	pass
11N20	H	2462	Ant 1	-7.15	pass
11N20	H	2462	Ant 2	-7.79	pass
11N20m	L	2412	Ant 1	-9.85	pass
11N20m	L	2412	Ant 2	-10.78	pass
11N20m	M	2437	Ant 1	-8.85	pass
11N20m	M	2437	Ant 2	-9.29	pass
11N20m	H	2462	Ant 1	-9.05	pass
11N20m	H	2462	Ant 2	-9.30	pass
11N40	L	2422	Ant 1	-10.73	pass
11N40	L	2422	Ant 2	-12.03	pass
11N40	M	2437	Ant 1	-11.07	pass
11N40	M	2437	Ant 2	-11.79	pass
11N40	H	2452	Ant 1	-11.15	pass
11N40	H	2452	Ant 2	-11.82	pass
11N40m	L	2422	Ant 1	-11.71	pass
11N40m	L	2422	Ant 2	-13.44	pass
11N40m	M	2437	Ant 1	-12.37	pass
11N40m	M	2437	Ant 2	-13.85	pass
11N40m	H	2452	Ant 1	-11.91	pass
11N40m	H	2452	Ant 2	-13.45	pass

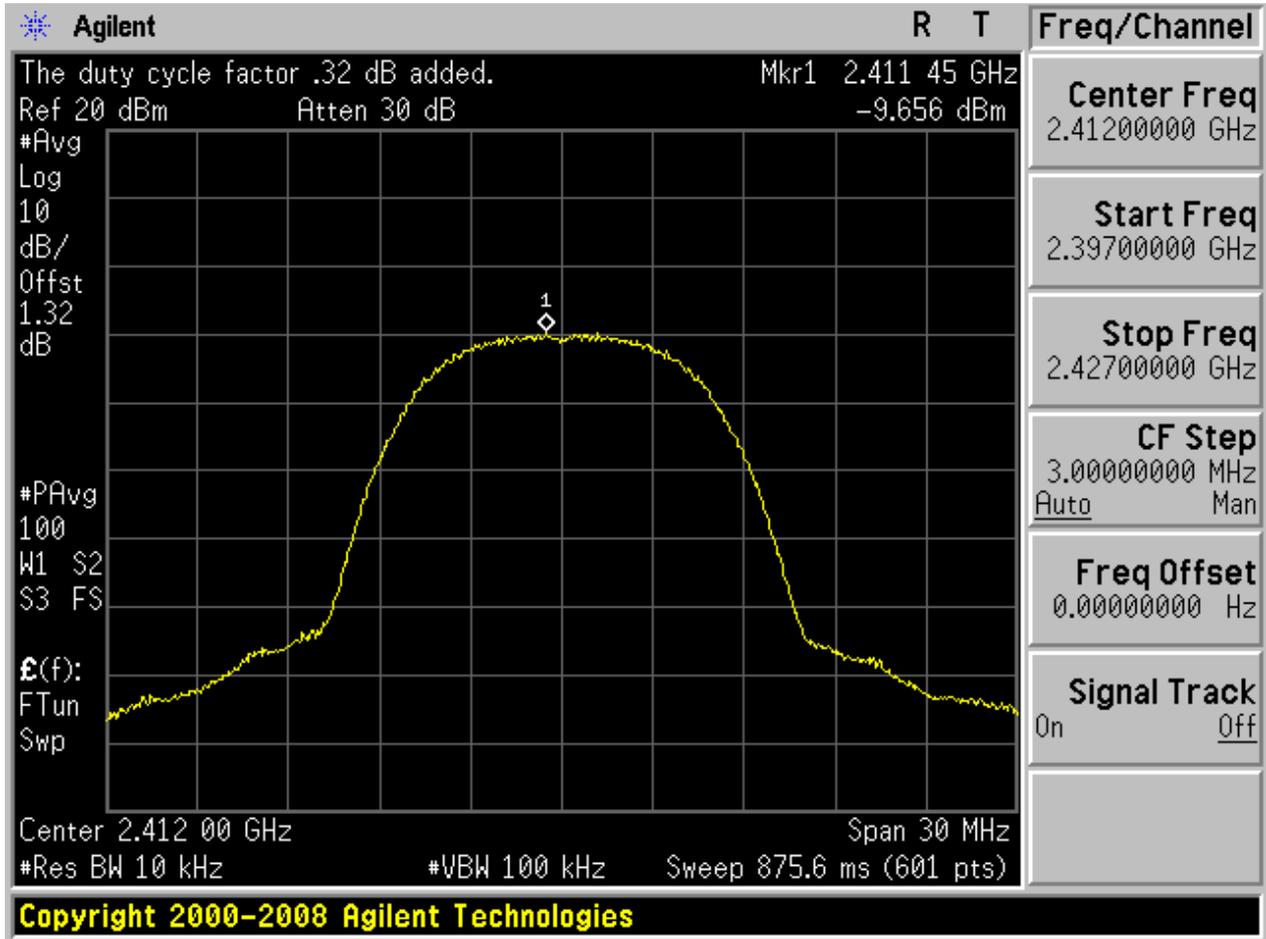
**Part II - Test Plots**

**2.1 11B\_L@Ant 1**



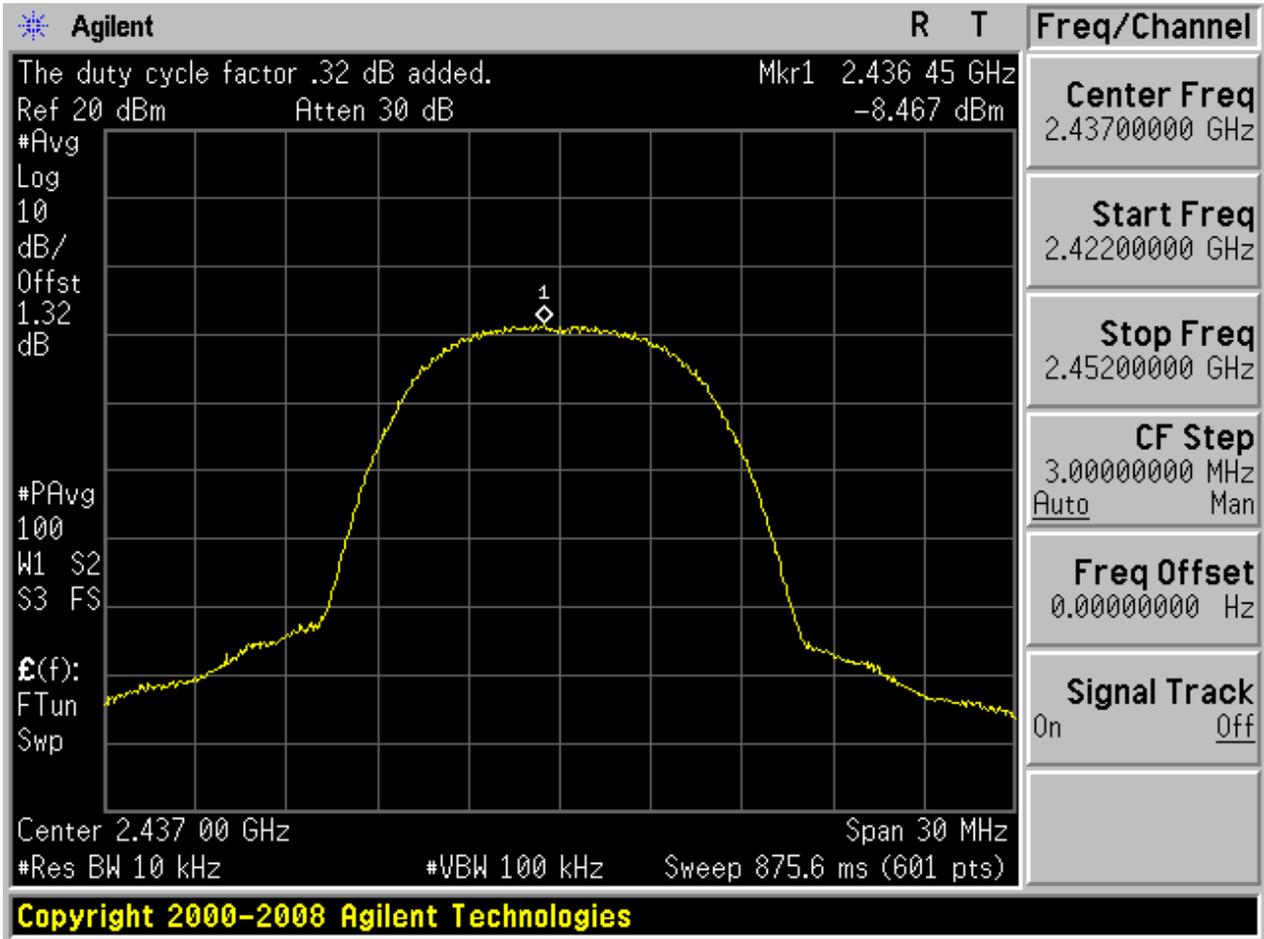


2.2 11B\_L@Ant 2



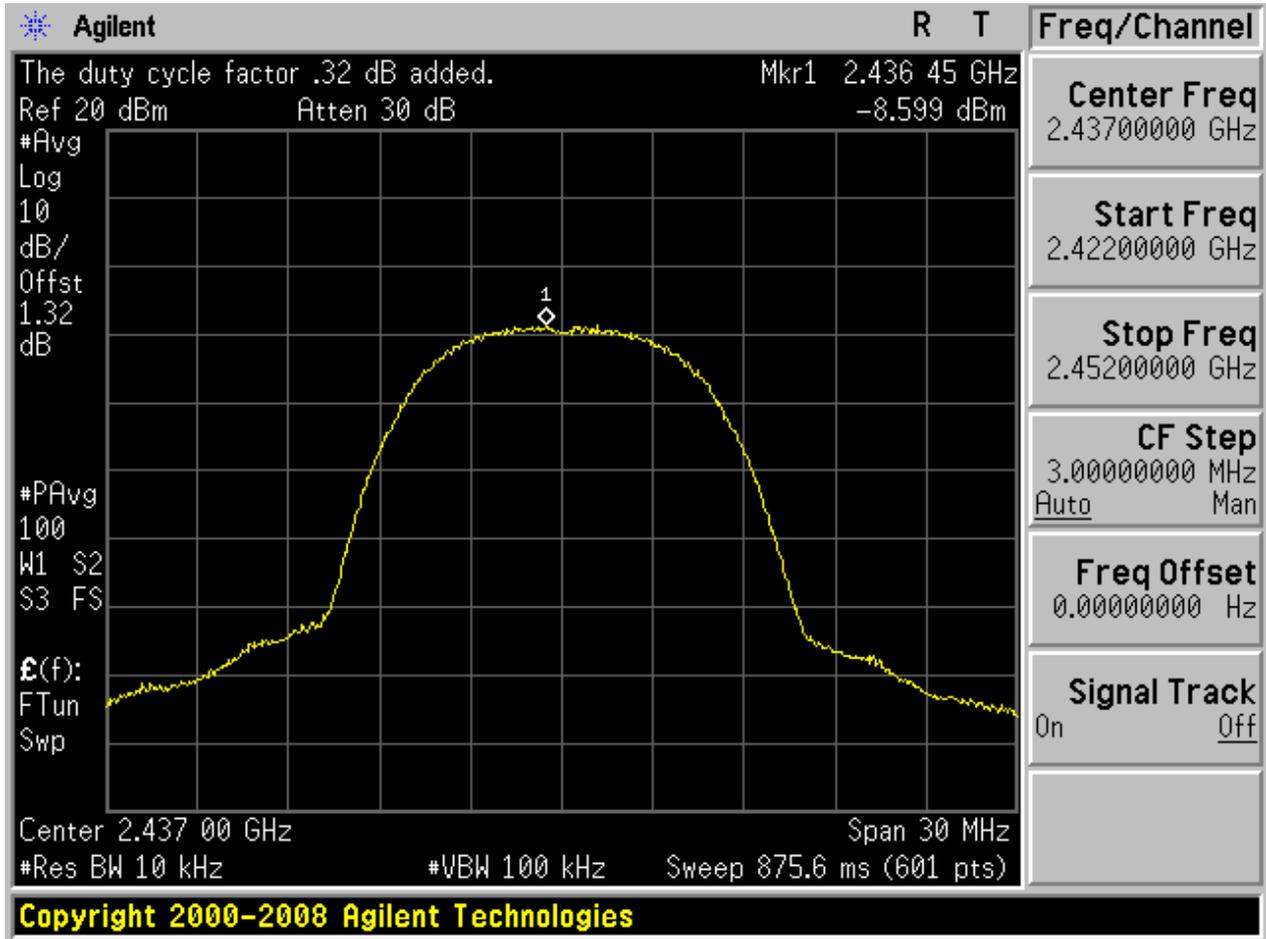


2.3 11B\_M@Ant 1



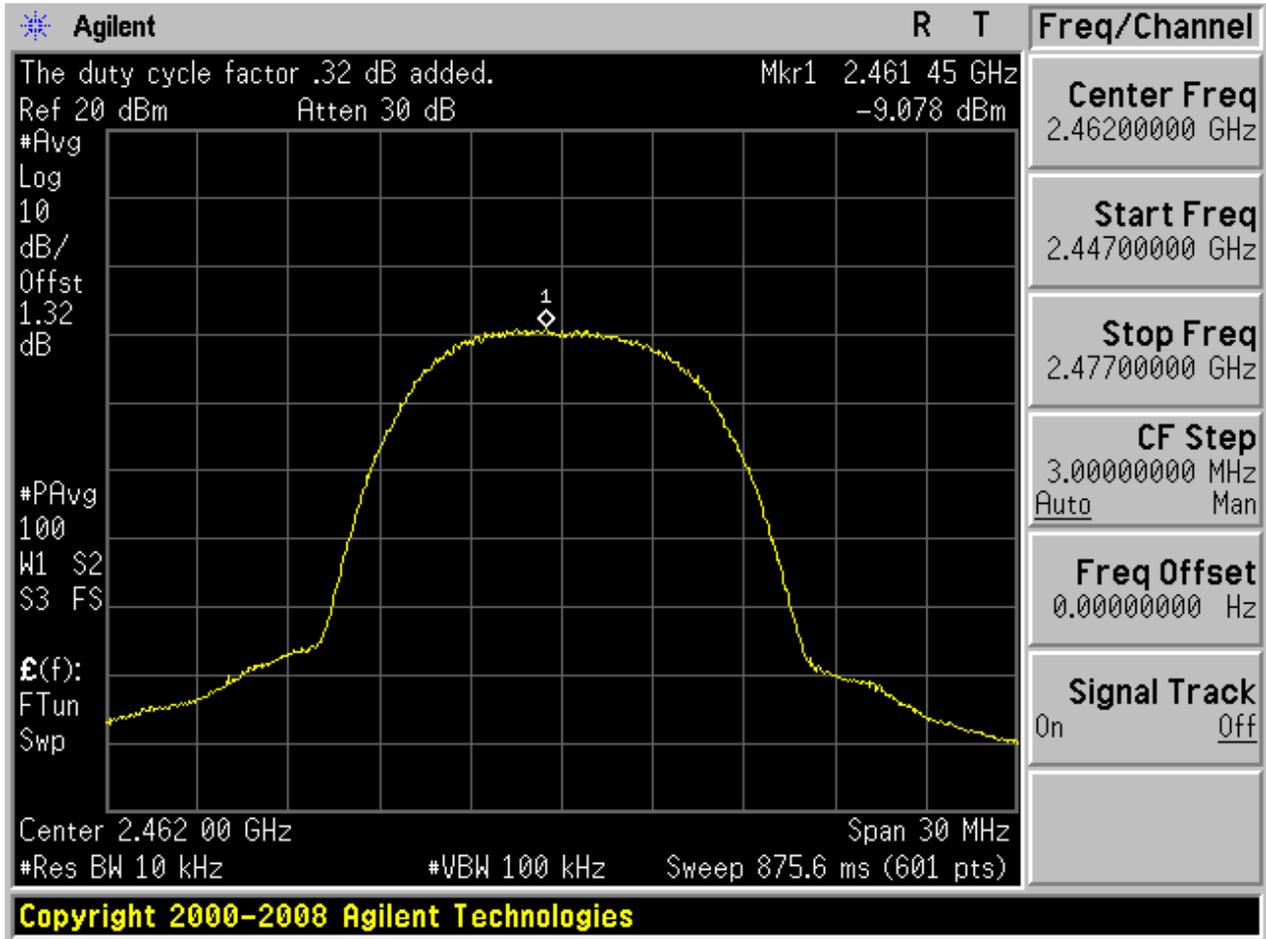


2.4 11B\_M@Ant 2



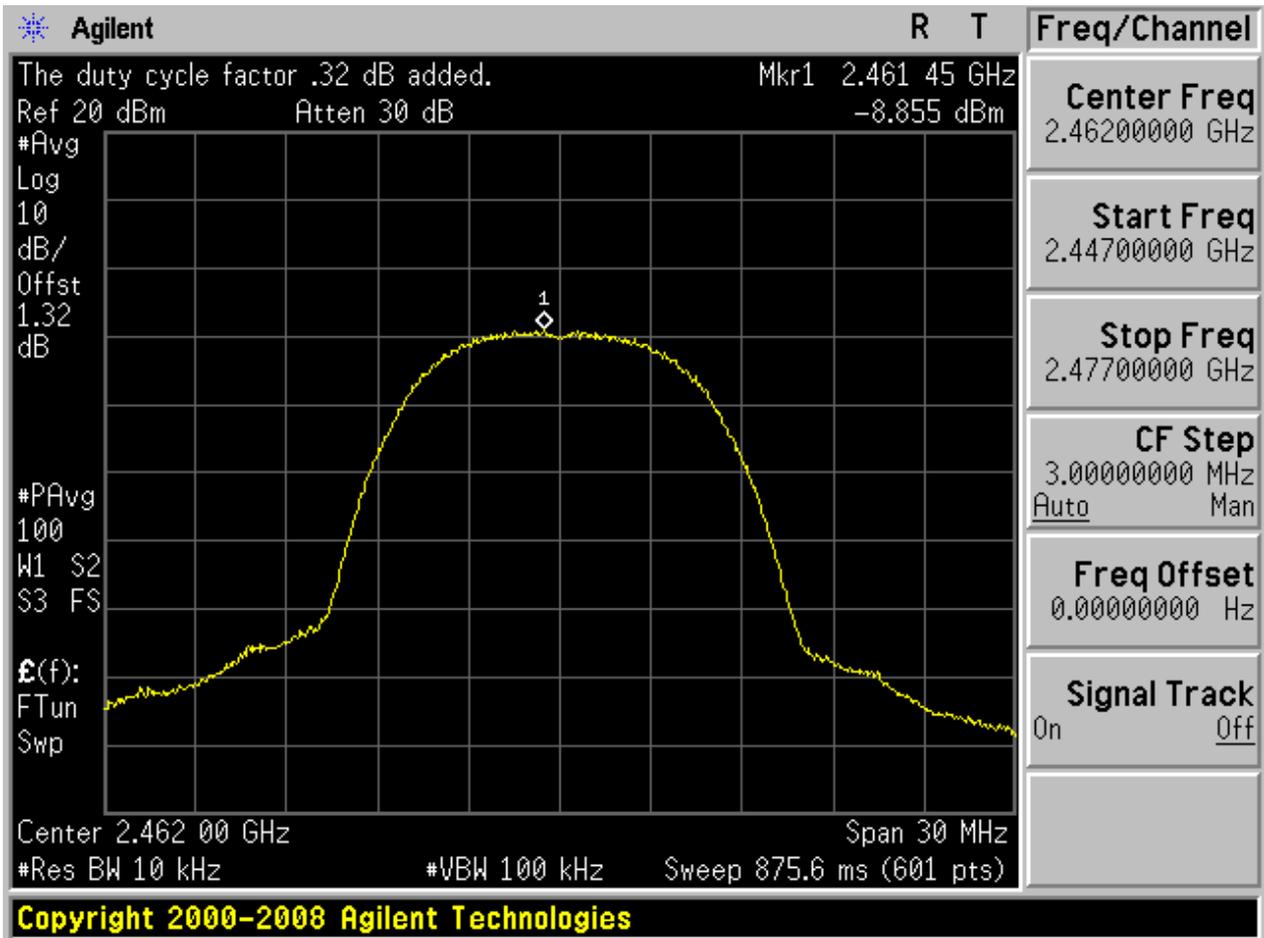


2.5 11B\_H@Ant 1



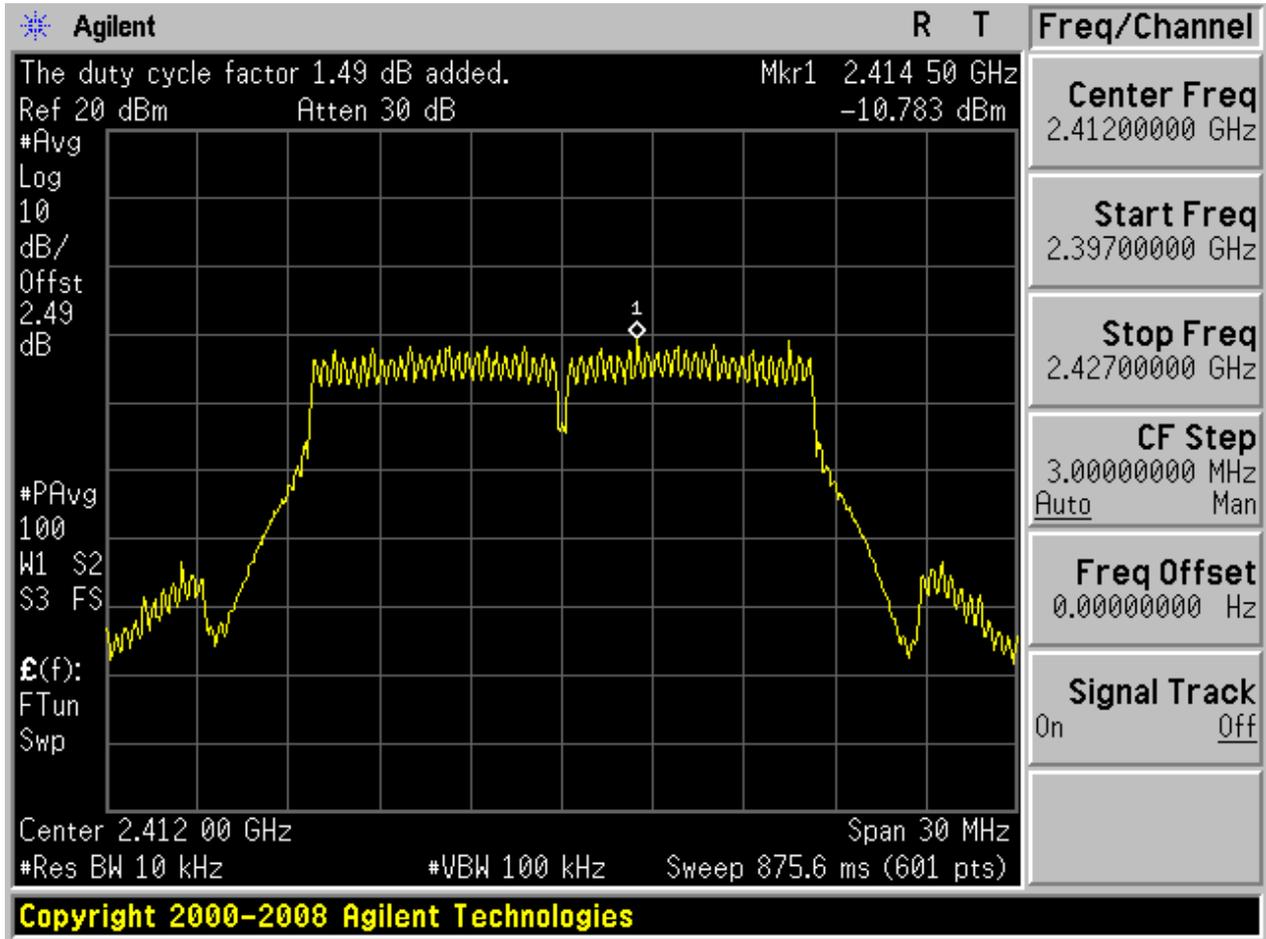


2.6 11B\_H@Ant 2



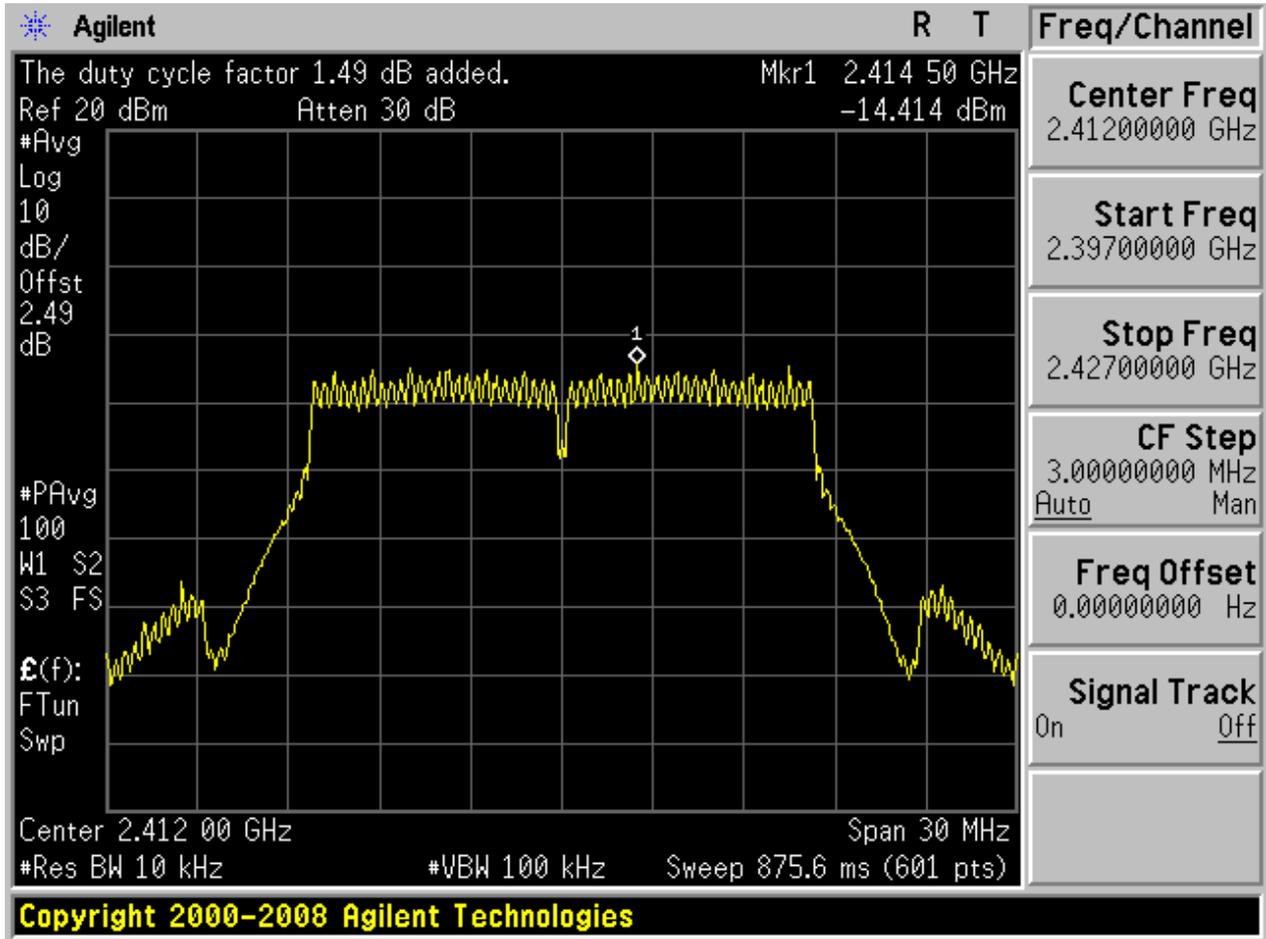


2.7 11G\_L@Ant 1



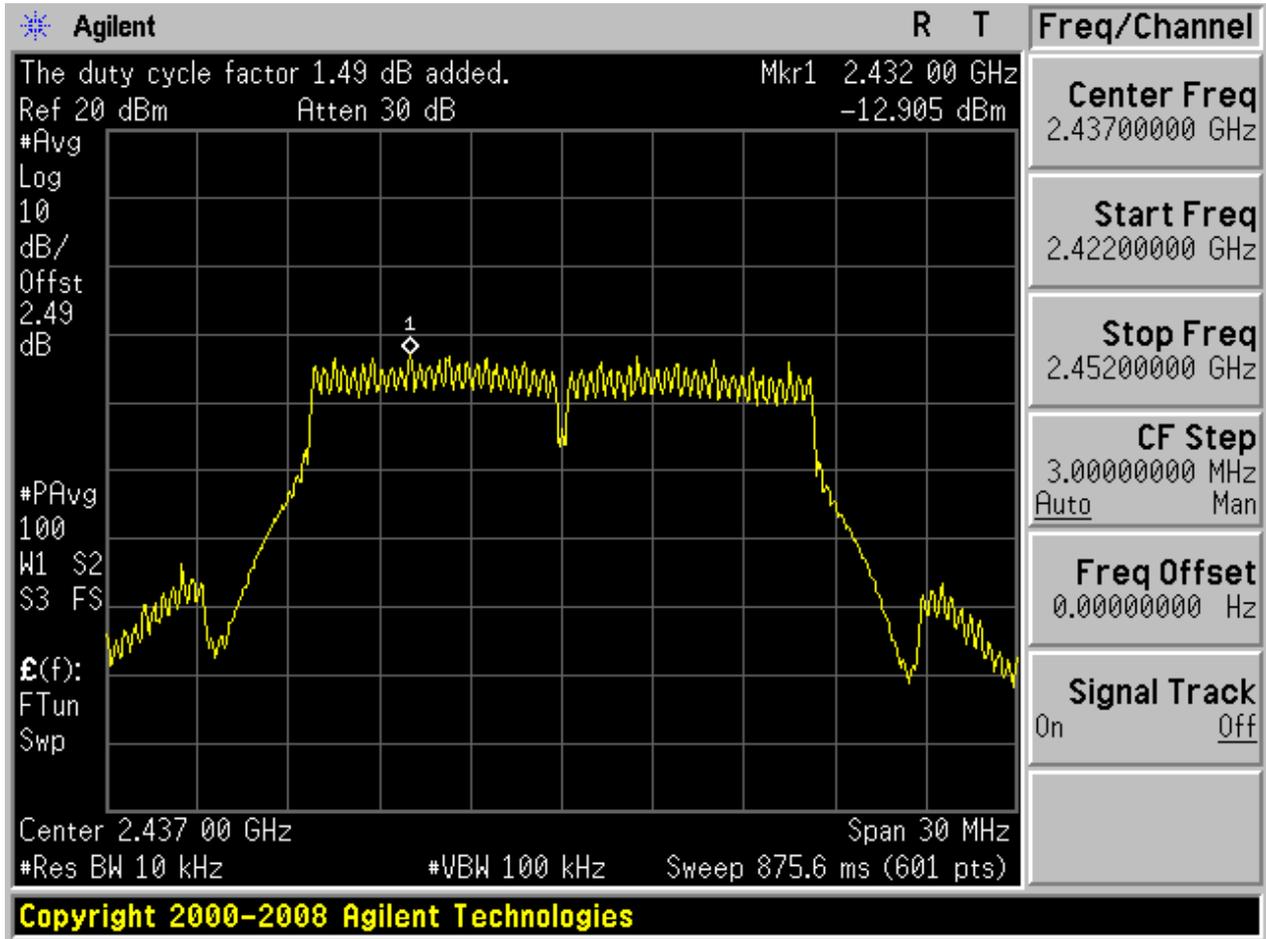


2.8 11G\_L@Ant 2

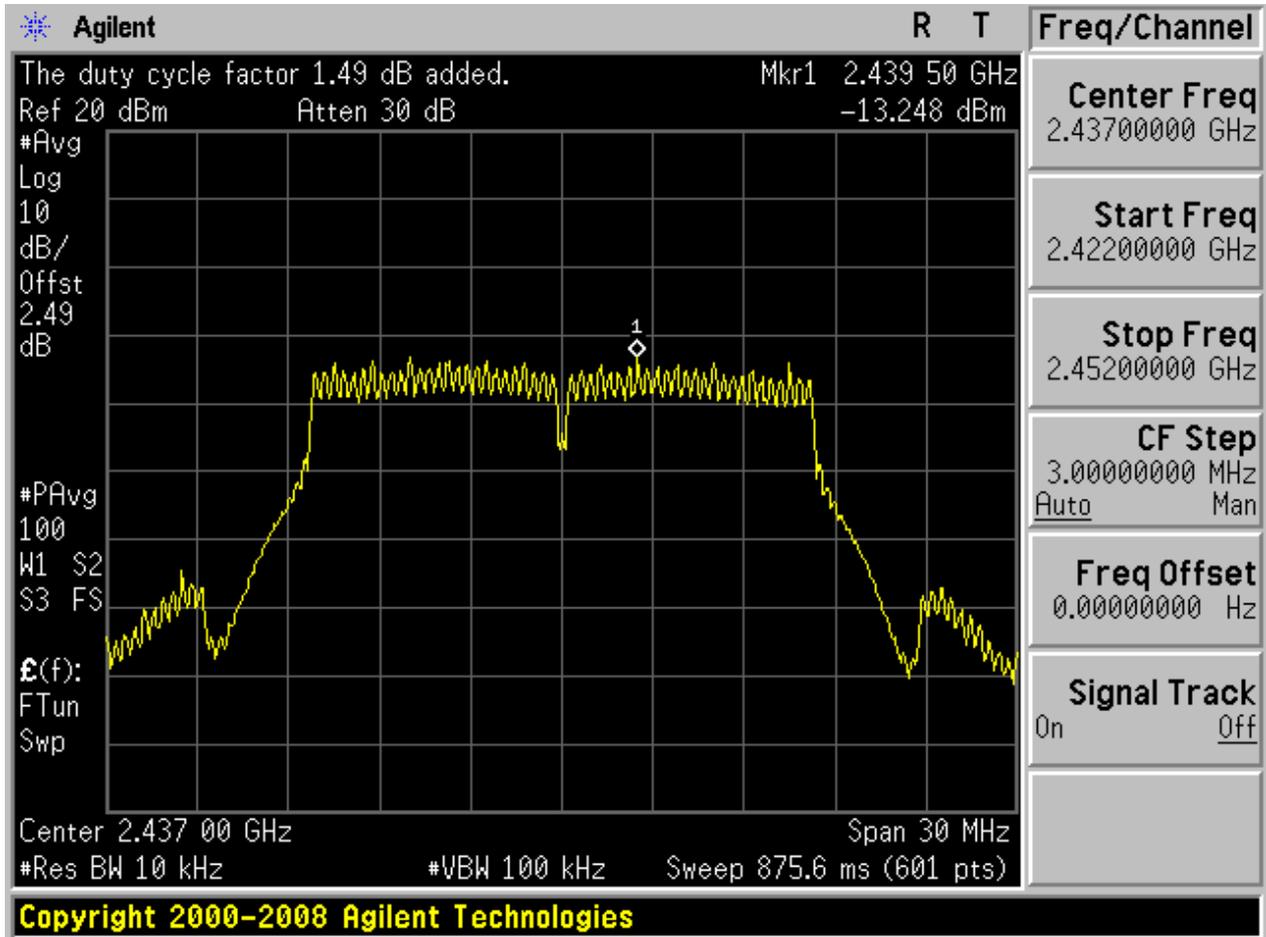




2.9 11G\_M@Ant 1

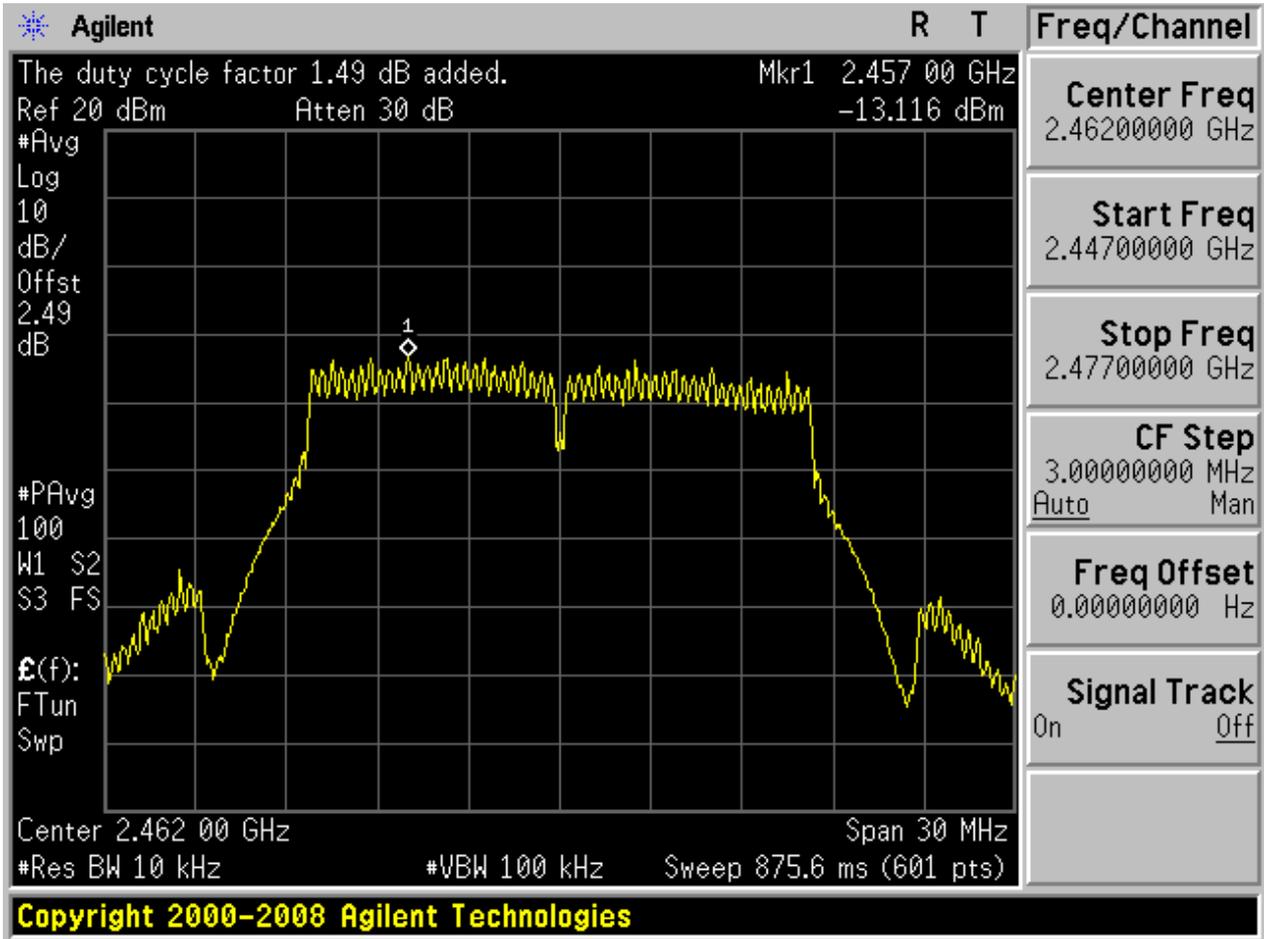


2.10 11G\_M@Ant 2



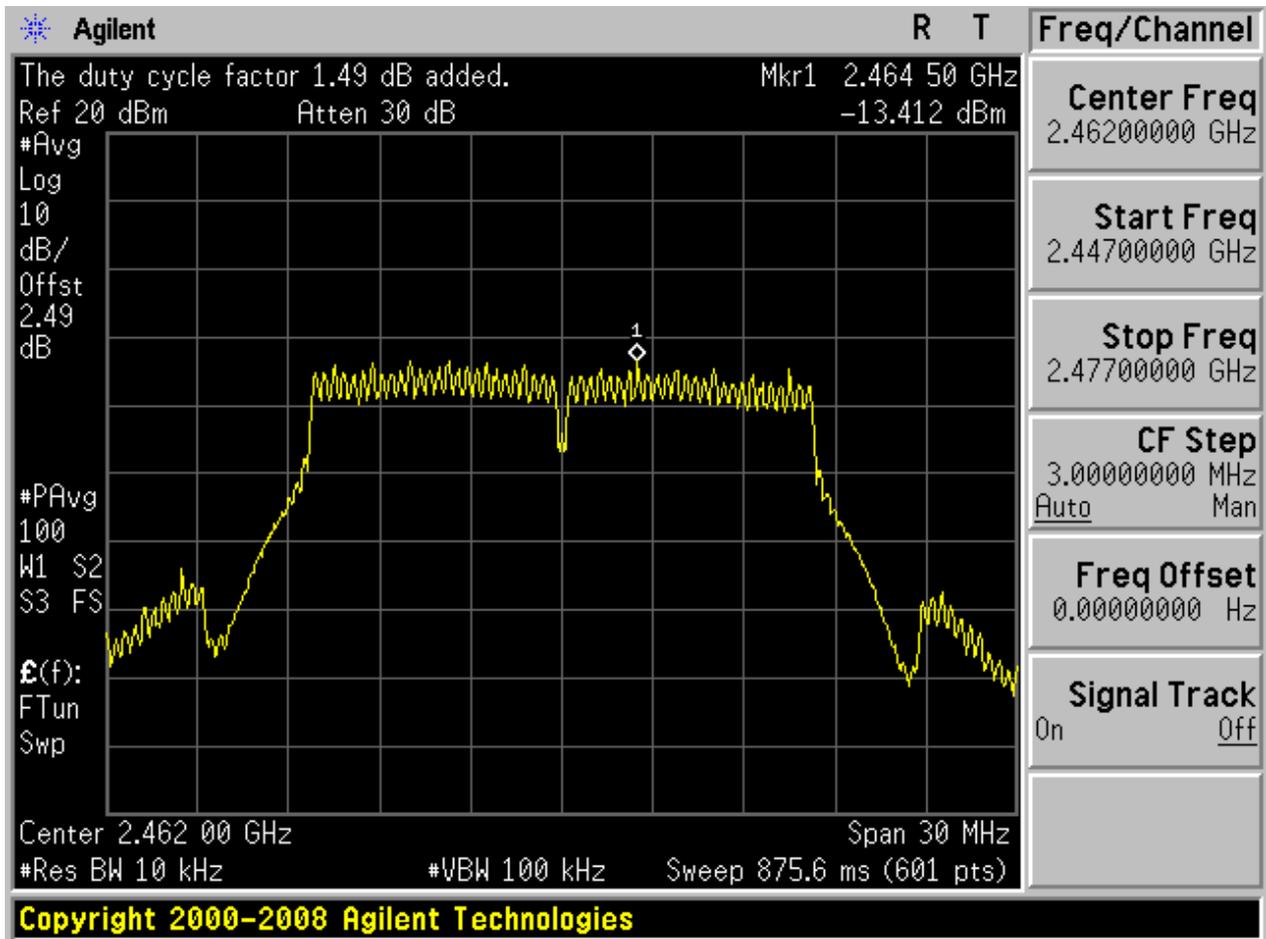


2.11 11G\_H@Ant 1

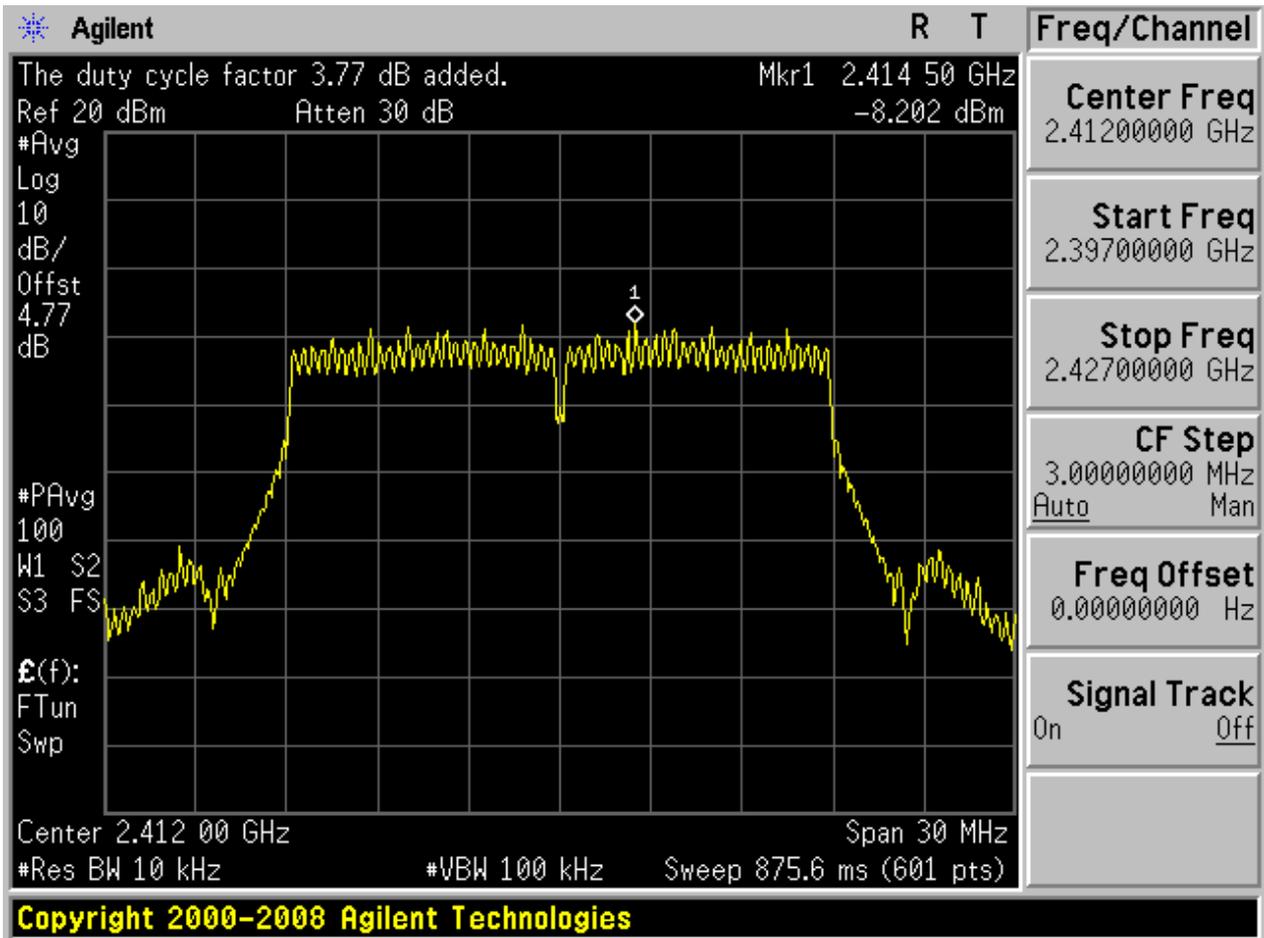


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2.12 11G\_H@Ant 2

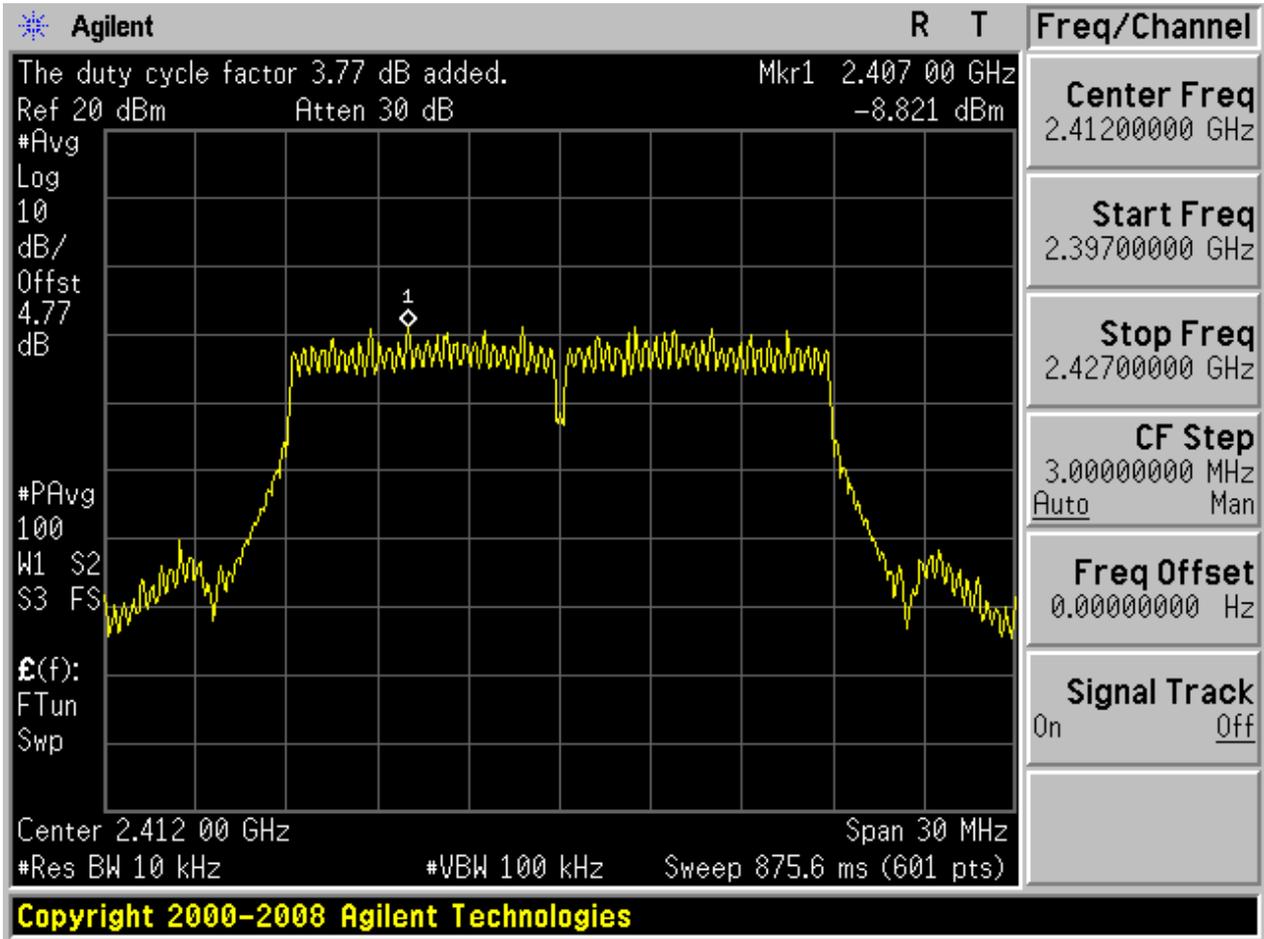


2.13 11N20\_L@Ant 1



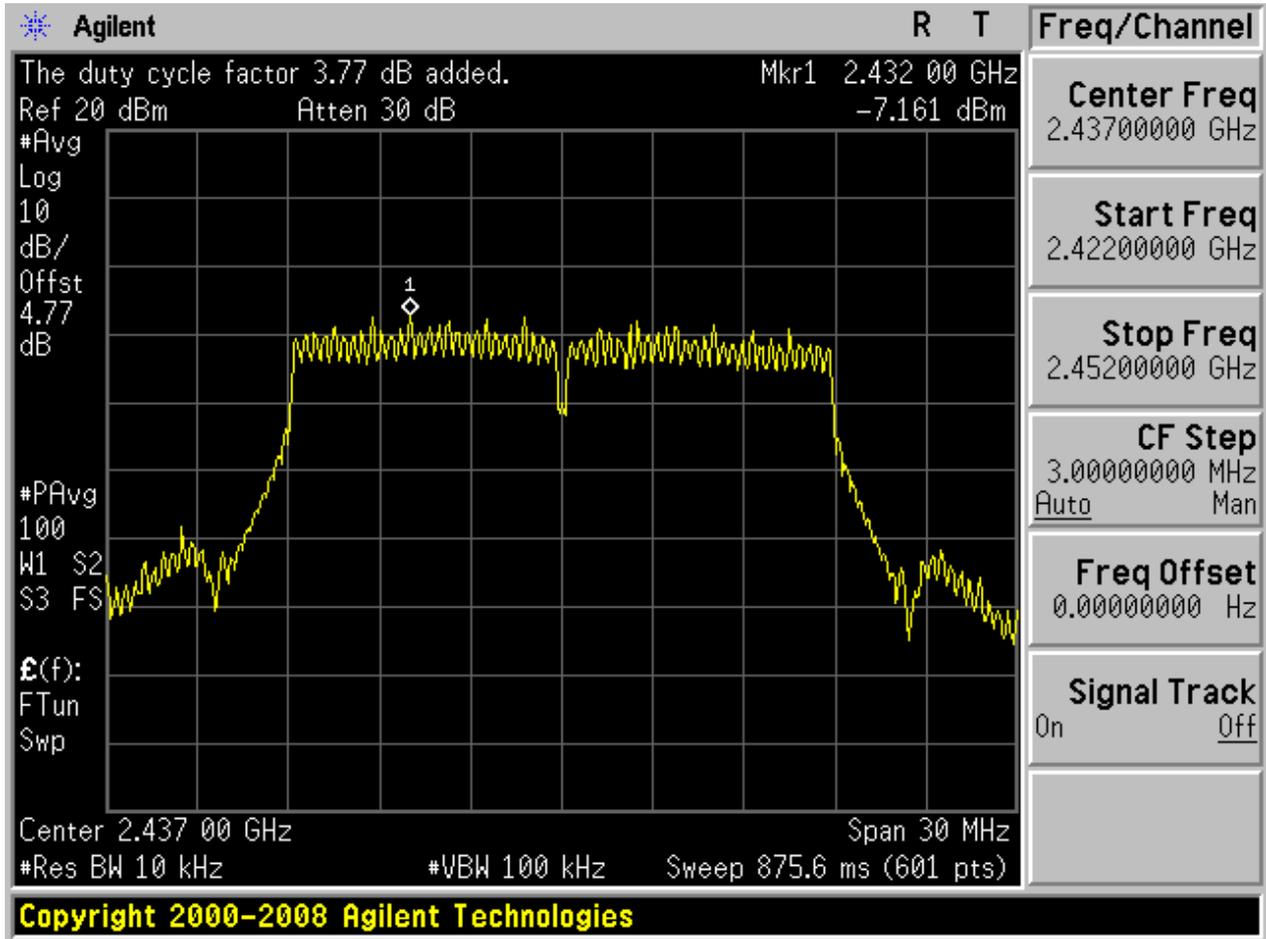


2.14 11N20\_L@Ant 2



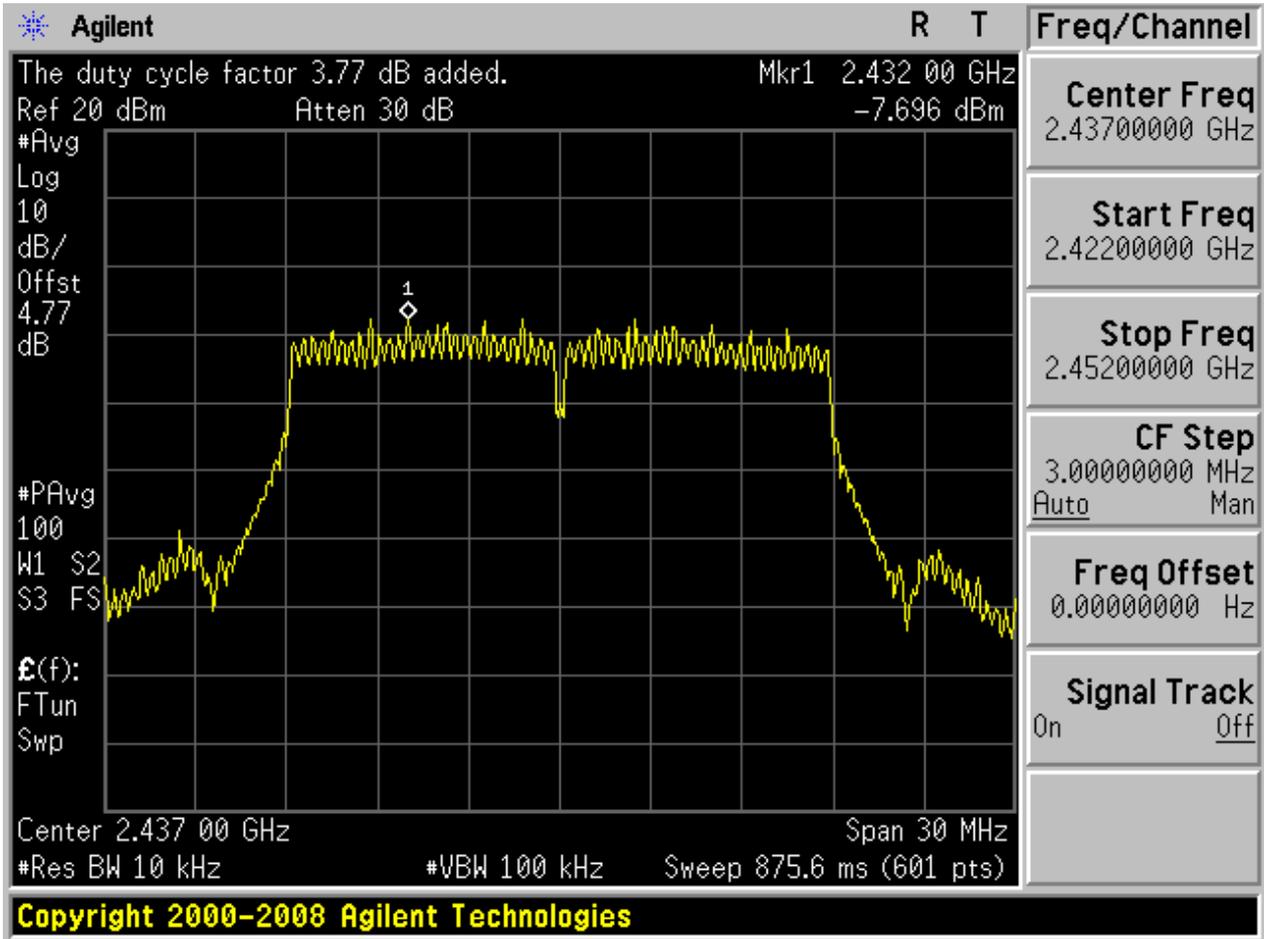


2.15 11N20\_M@Ant 1



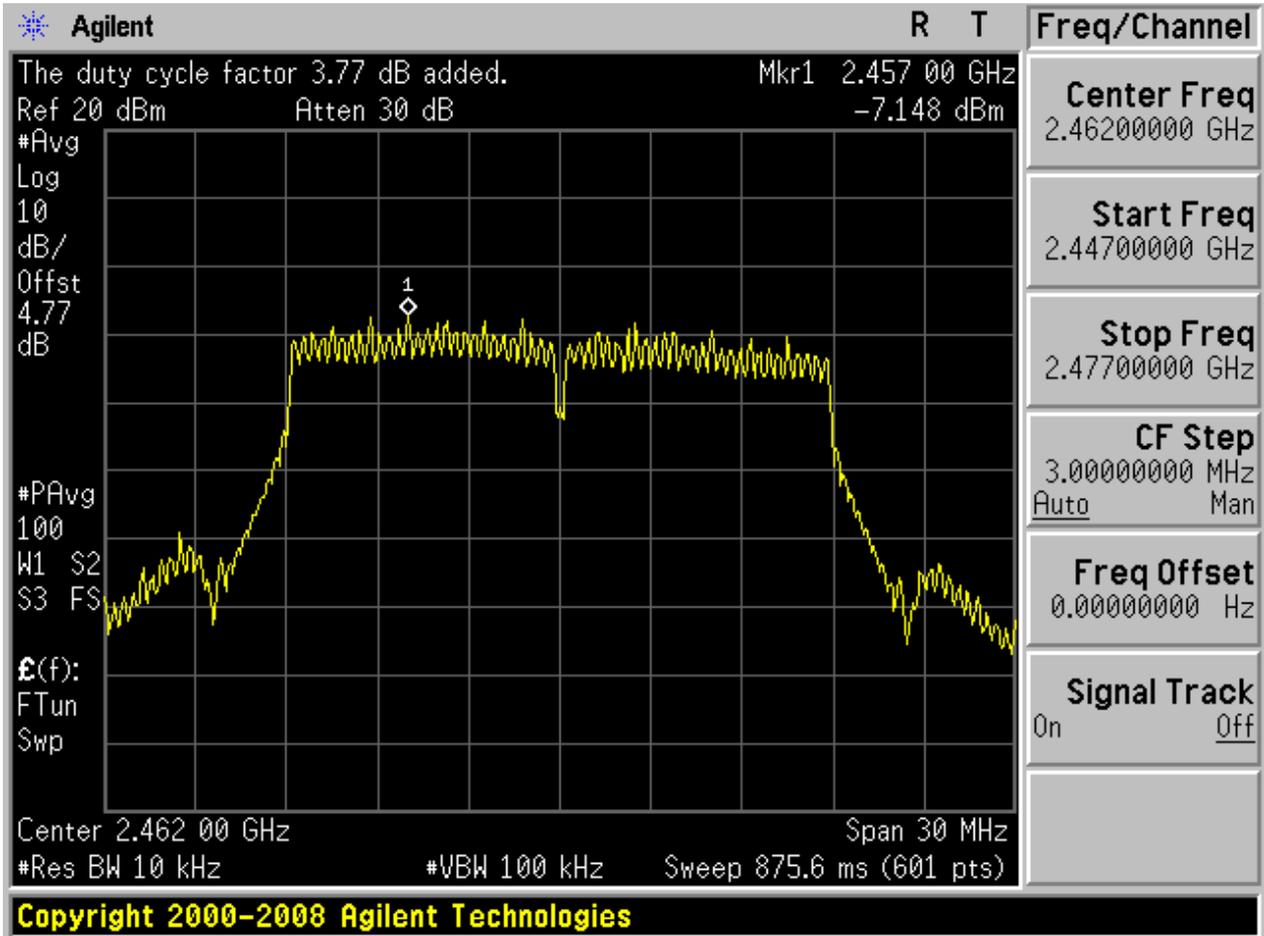


2.16 11N20\_M@Ant 2





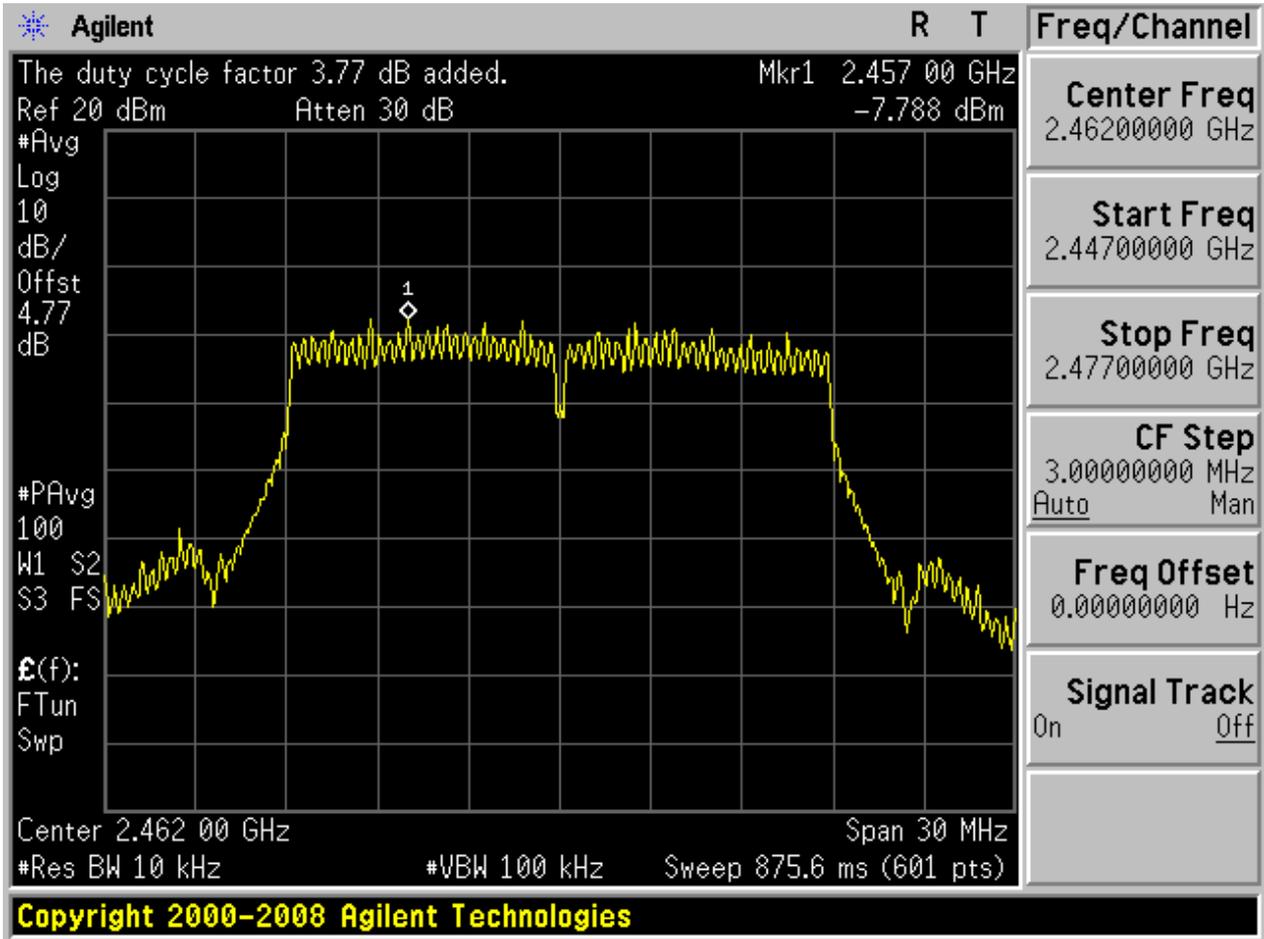
2.17 11N20\_H@Ant 1



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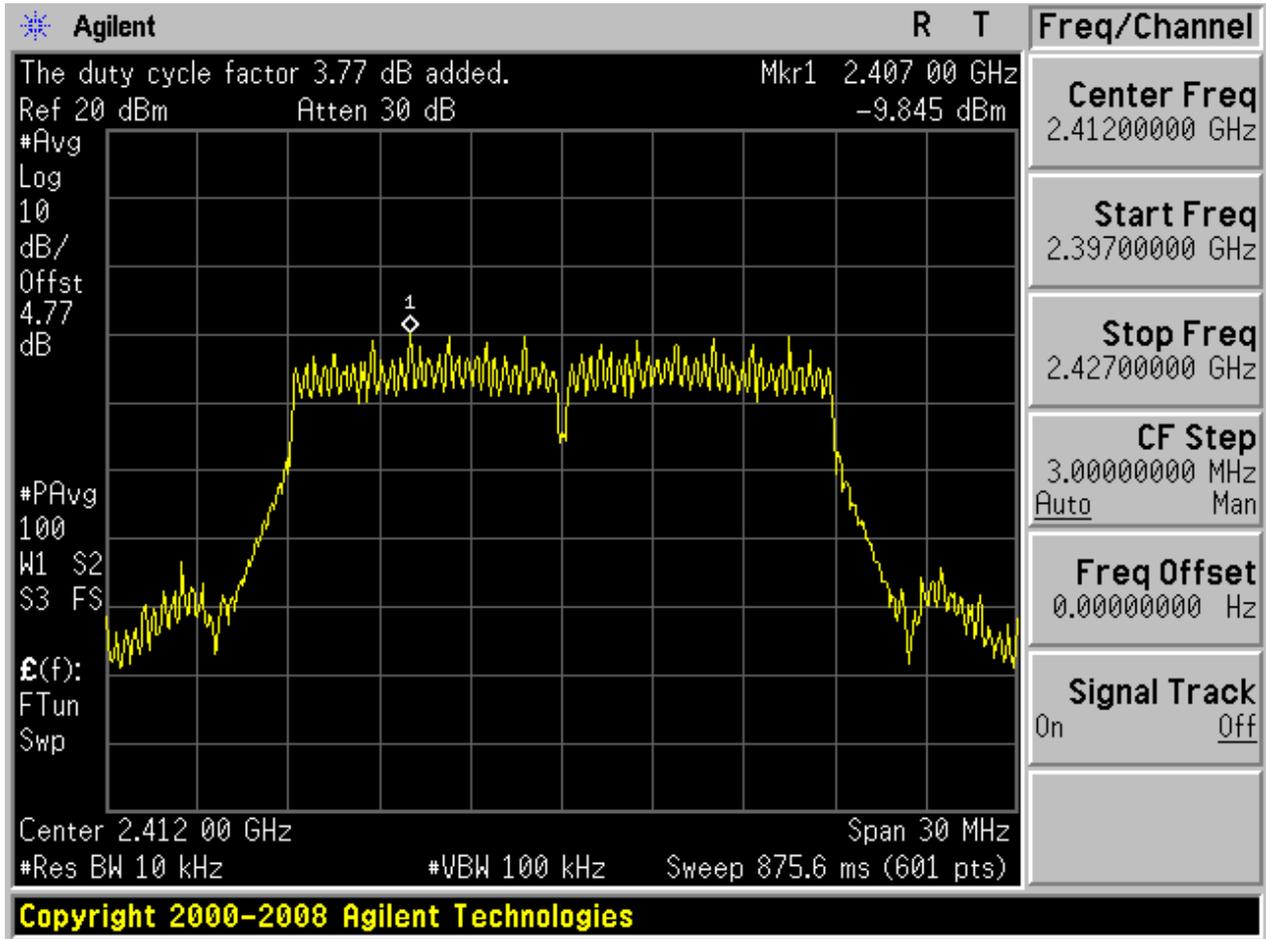


2.18 11N20\_H@Ant 2





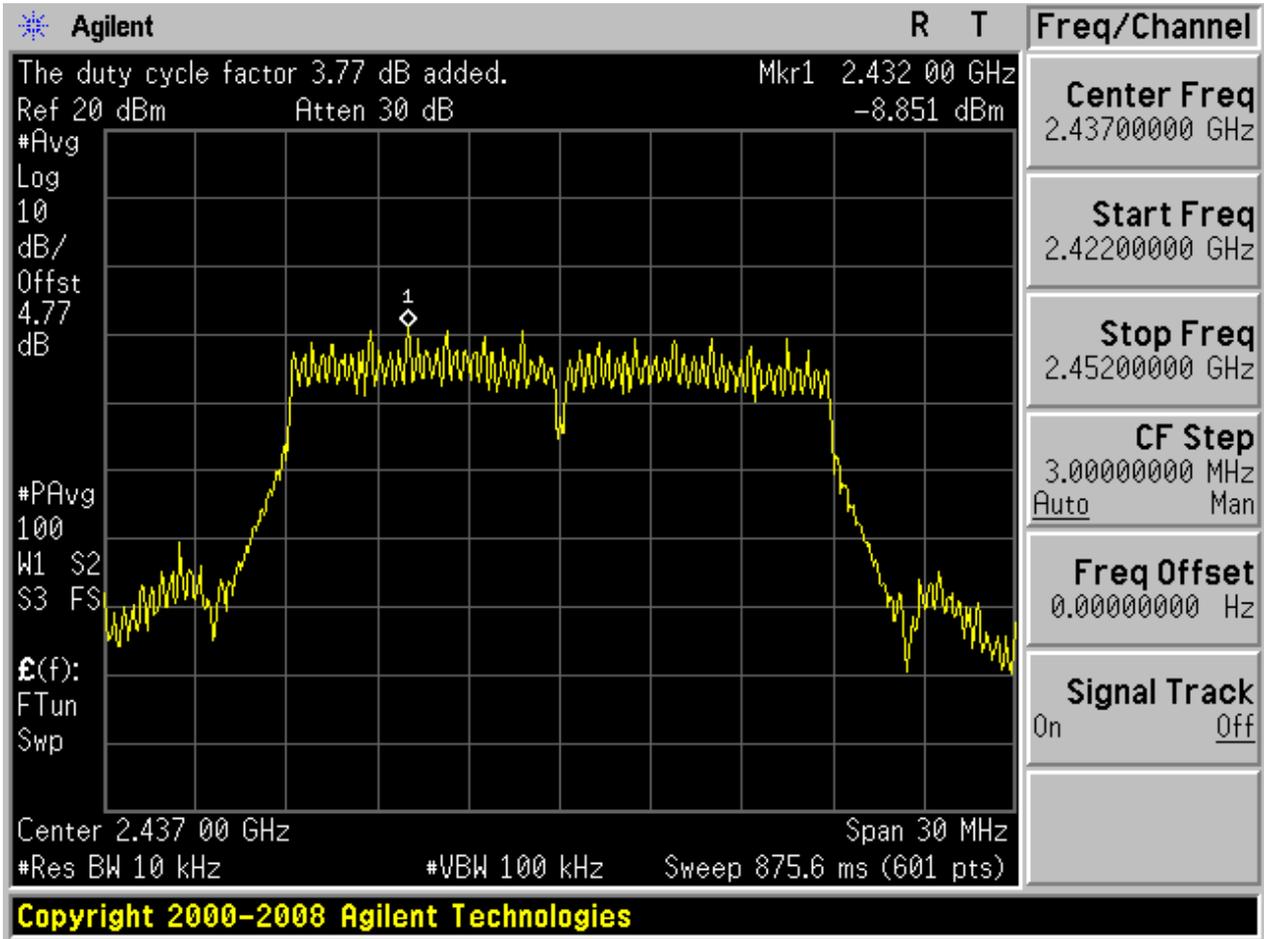
2.13 11N20m\_L@Ant 1





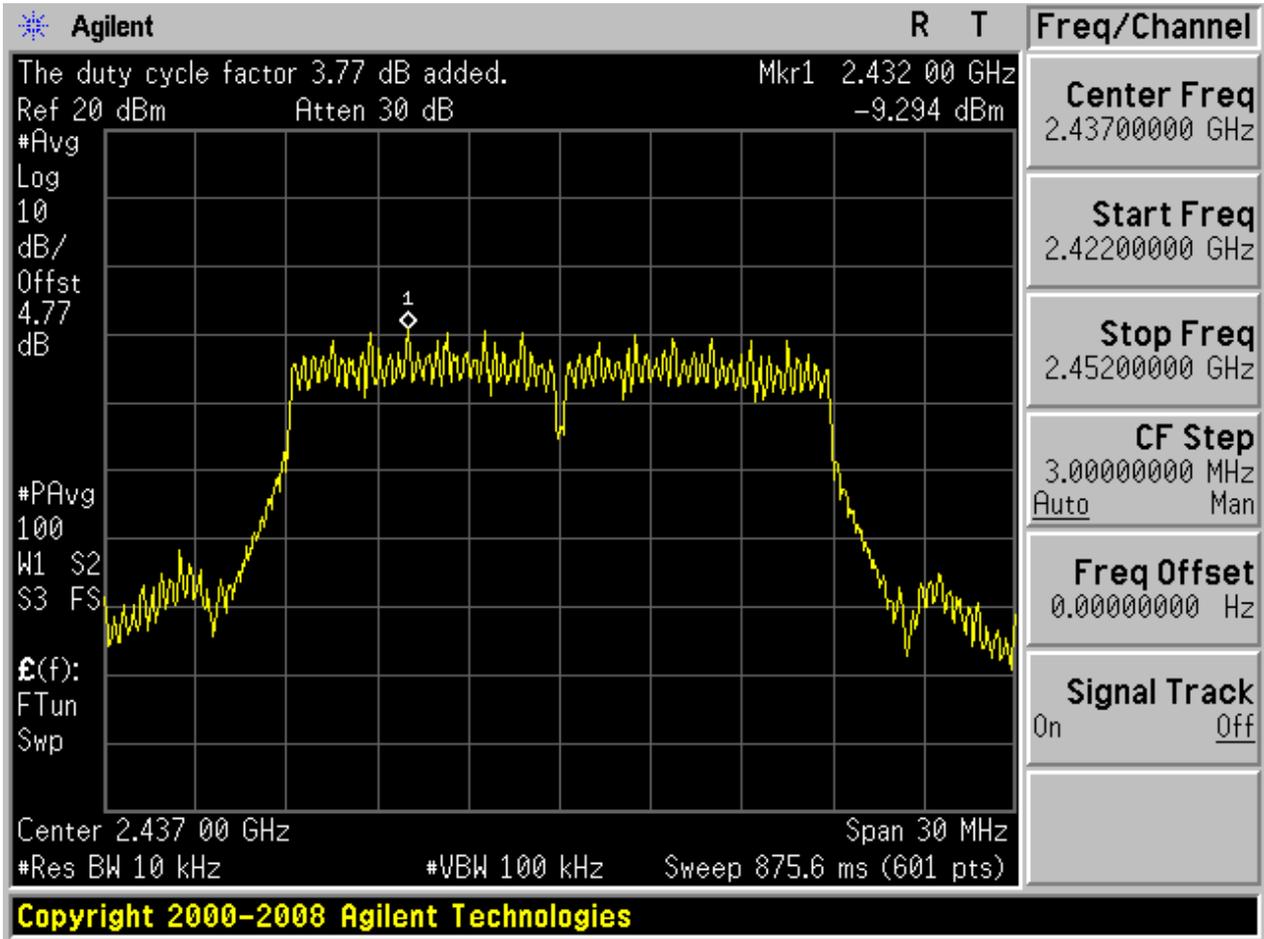


2.15 11N20m\_M@Ant 1



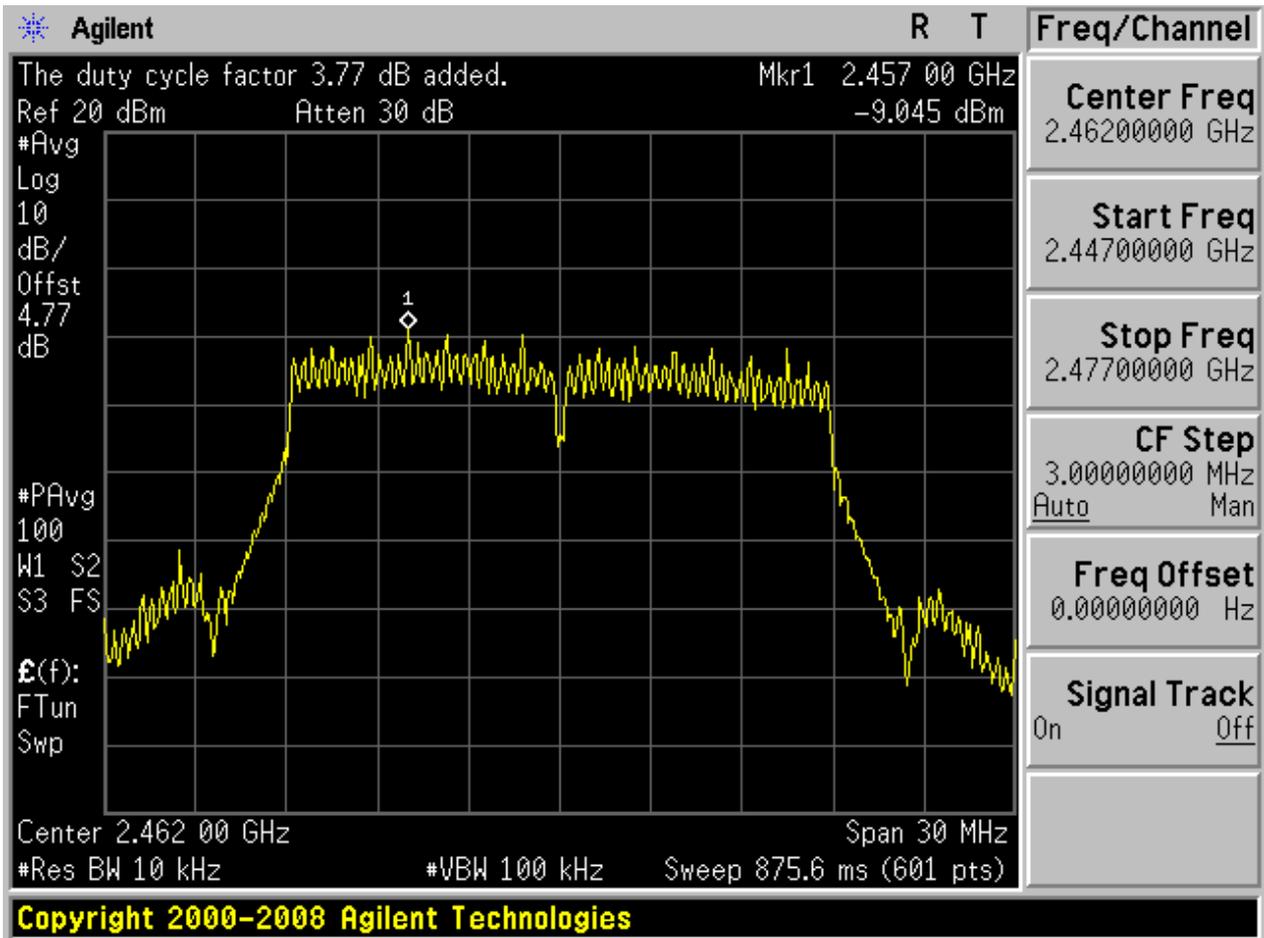


2.16 11N20m\_M@Ant 2



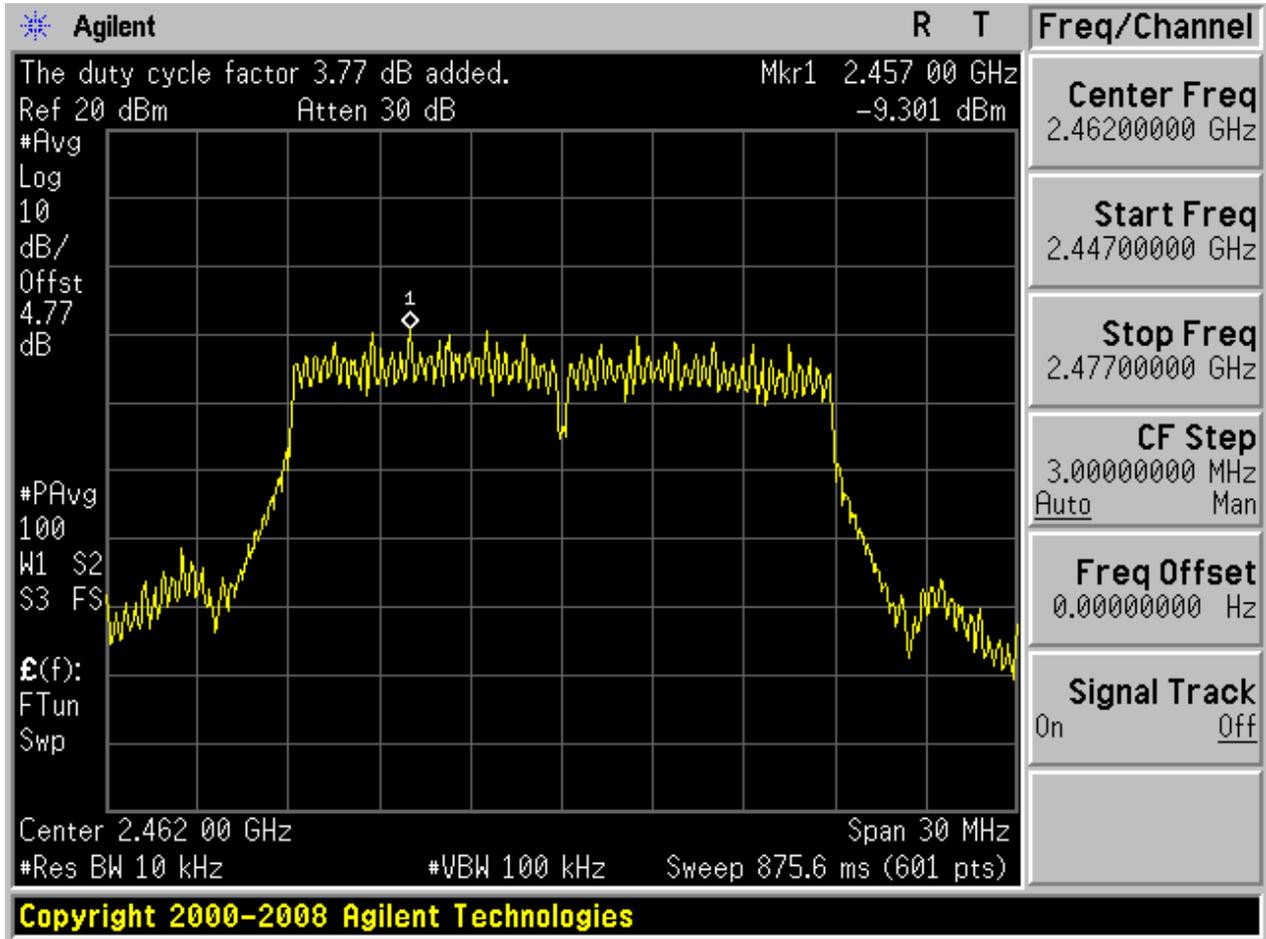


2.17 11N20m\_H@Ant 1





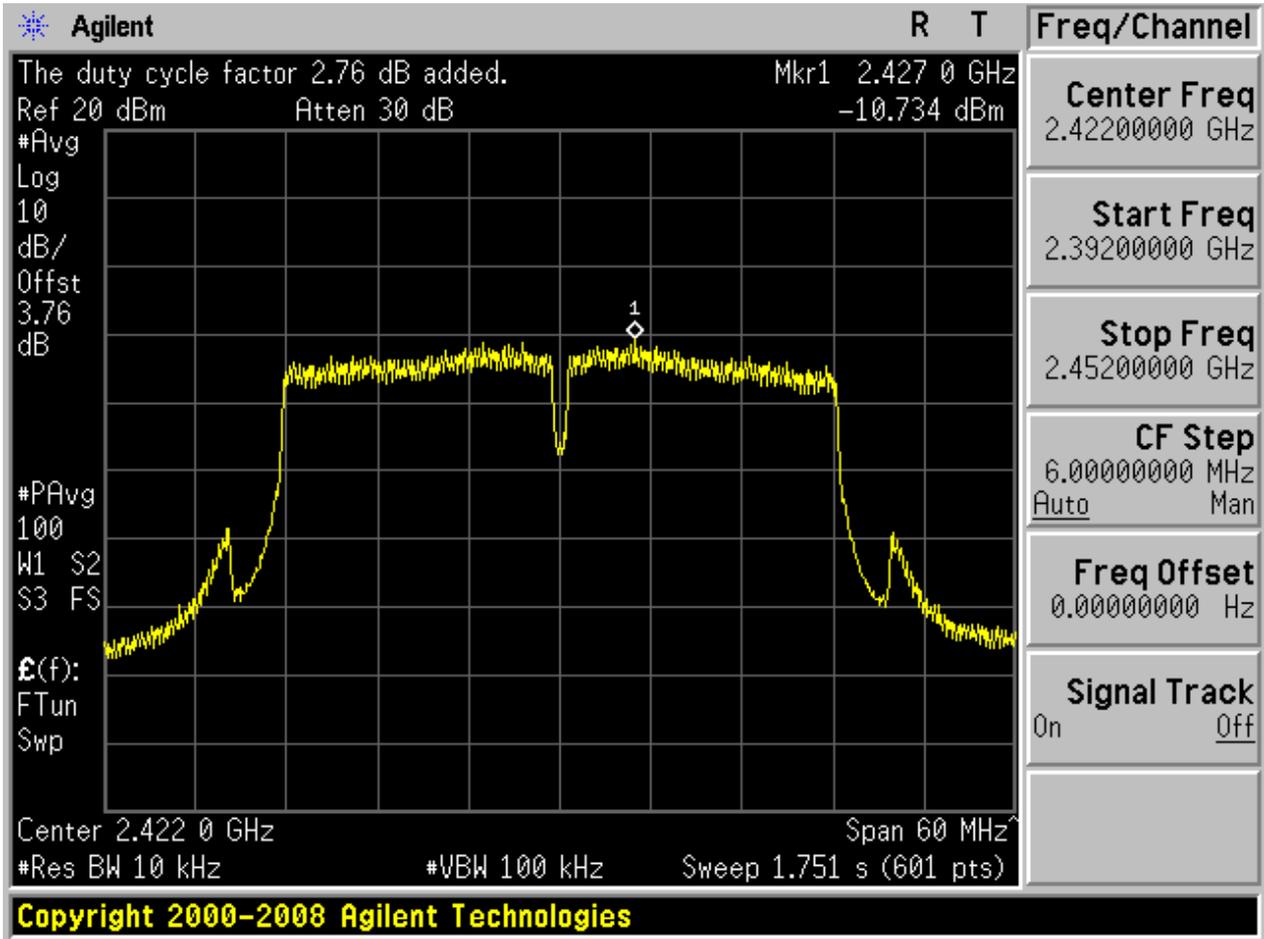
2.18 11N20m\_H@Ant 2



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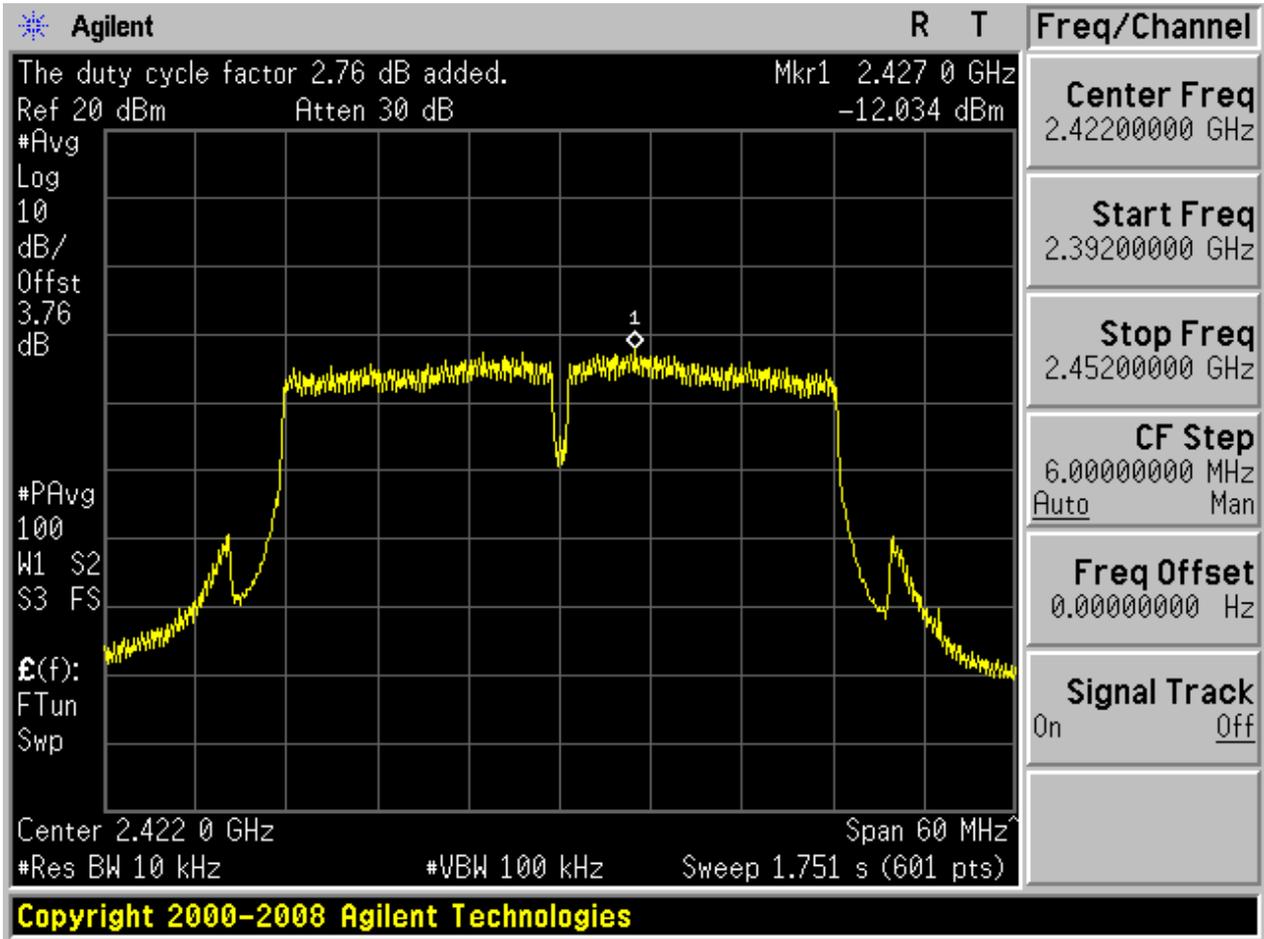


2.19 11N40\_L@Ant 1



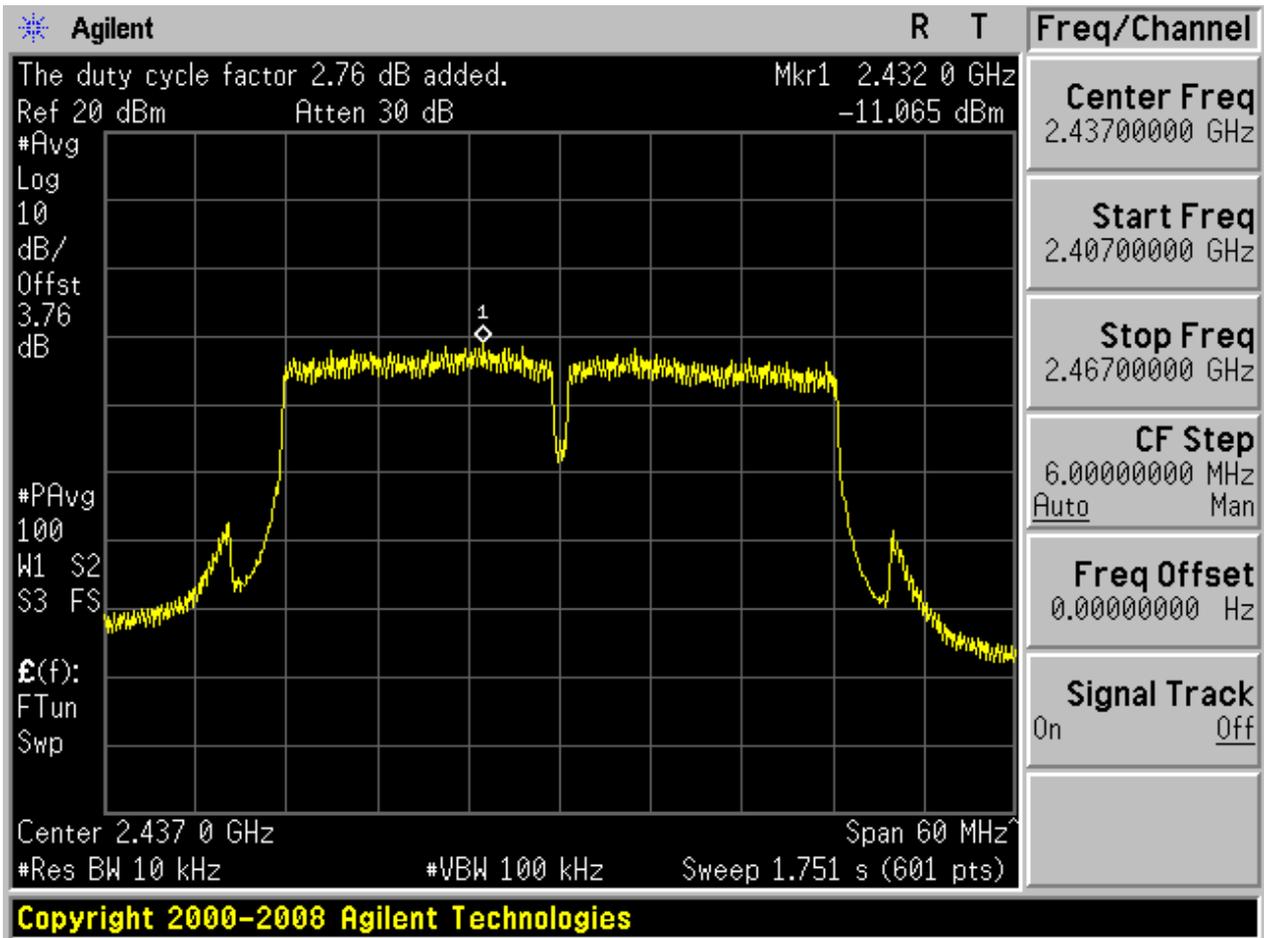


2.20 11N40\_L@Ant 2



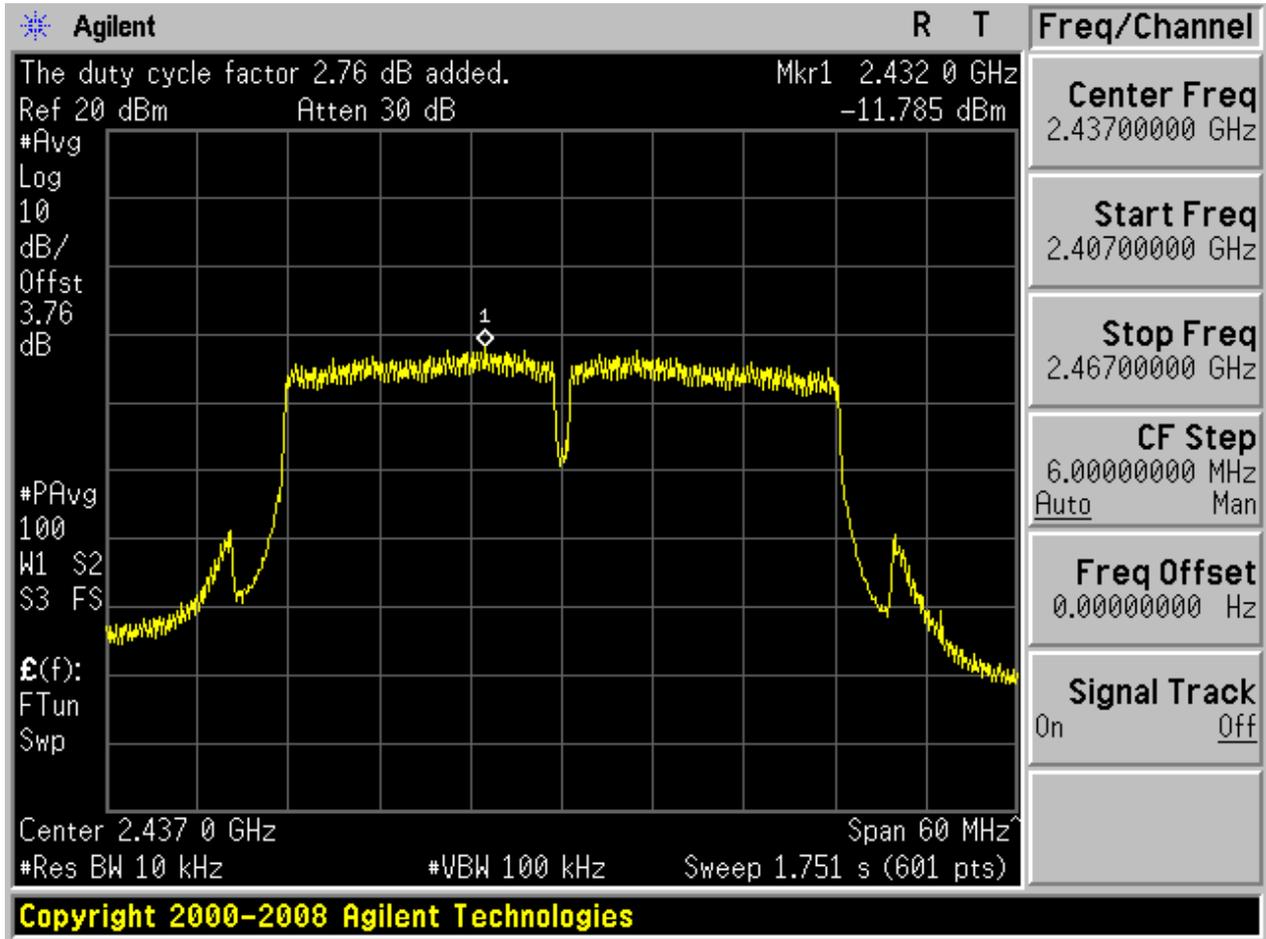


2.21 11N40\_M@Ant 1



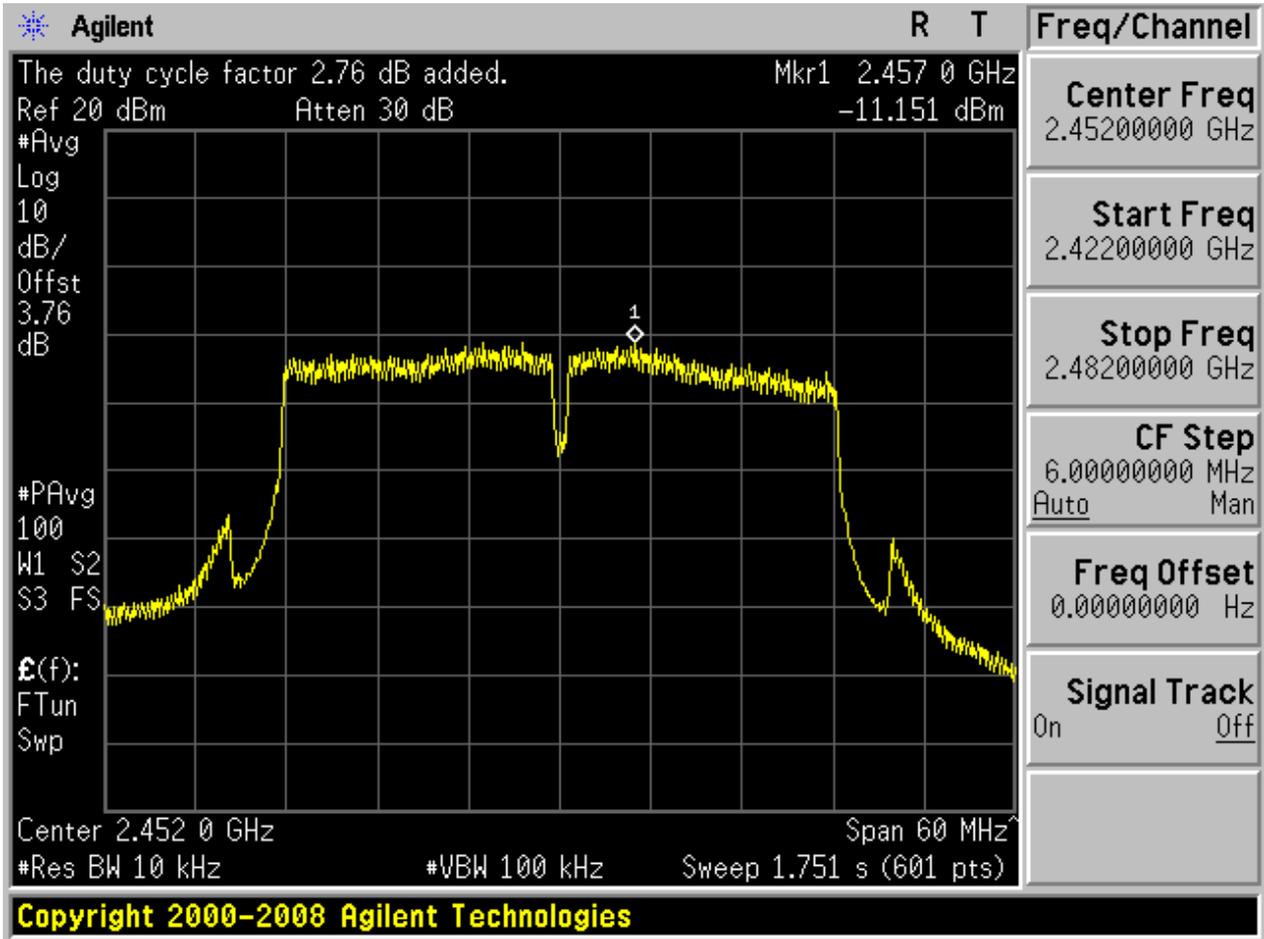


2.22 11N40\_M@Ant 2



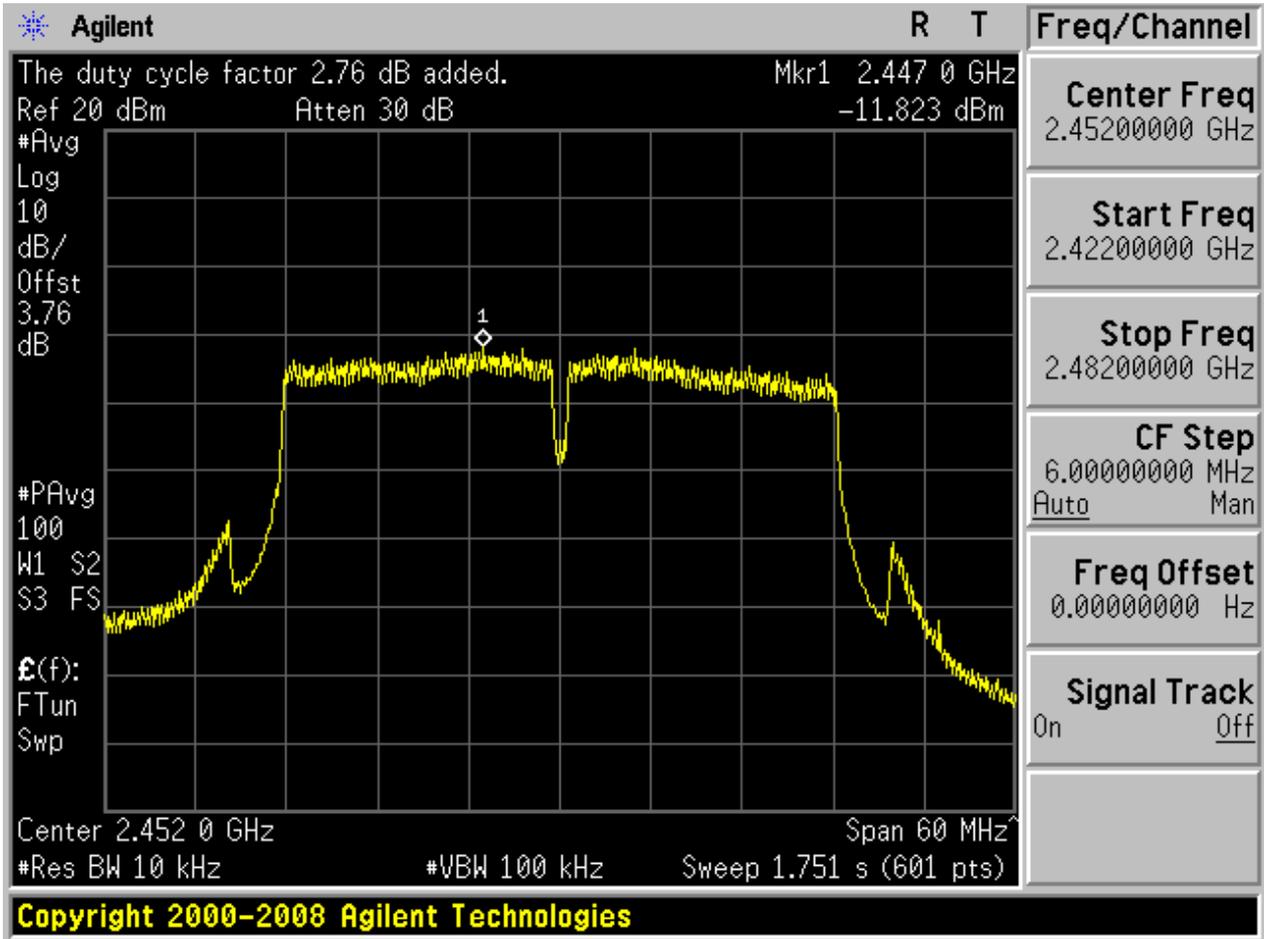


2.23 11N40\_H@Ant 1



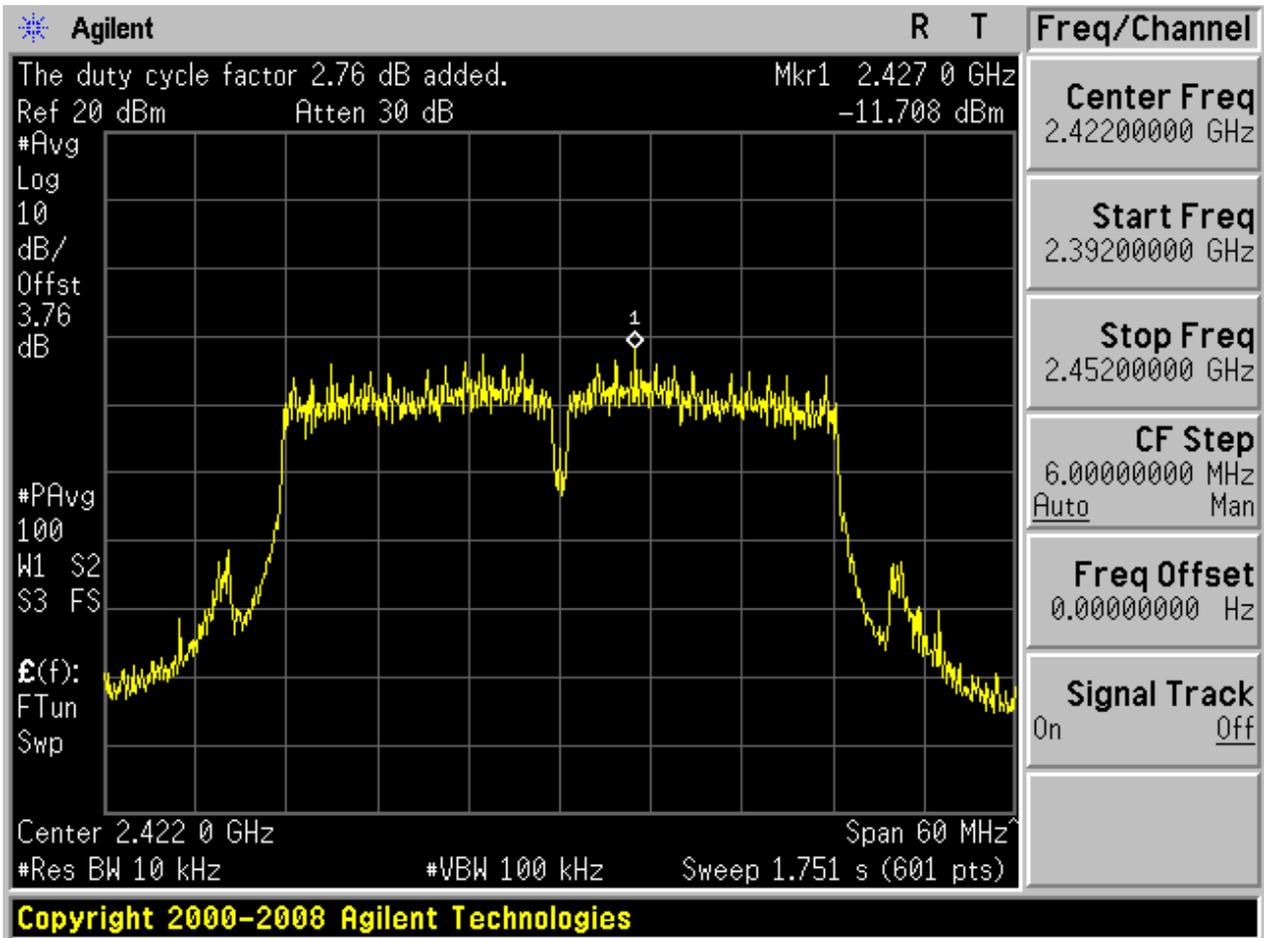


2.24 11N40\_H@Ant 2



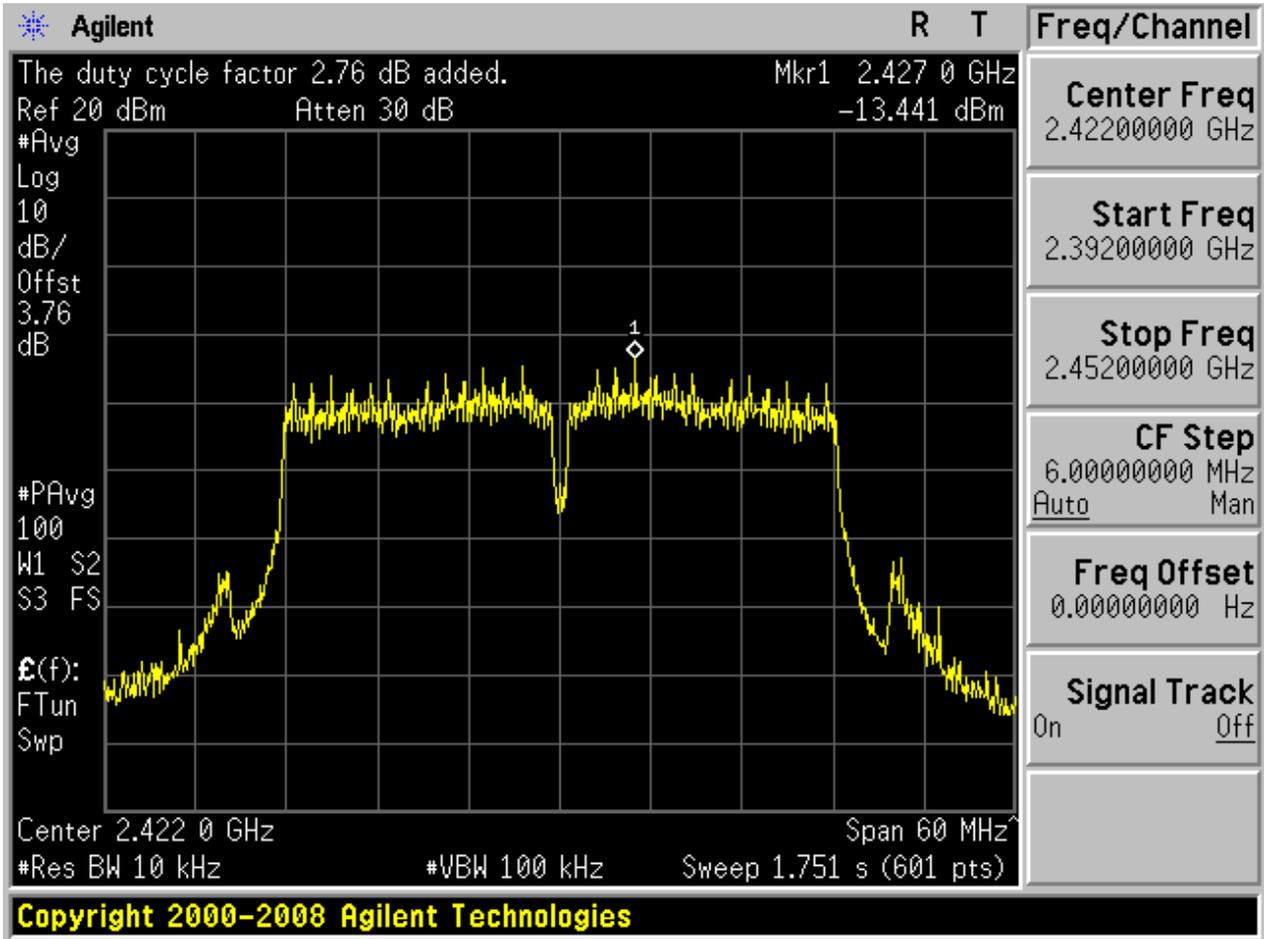


2.31 11N40m\_L@Ant 1

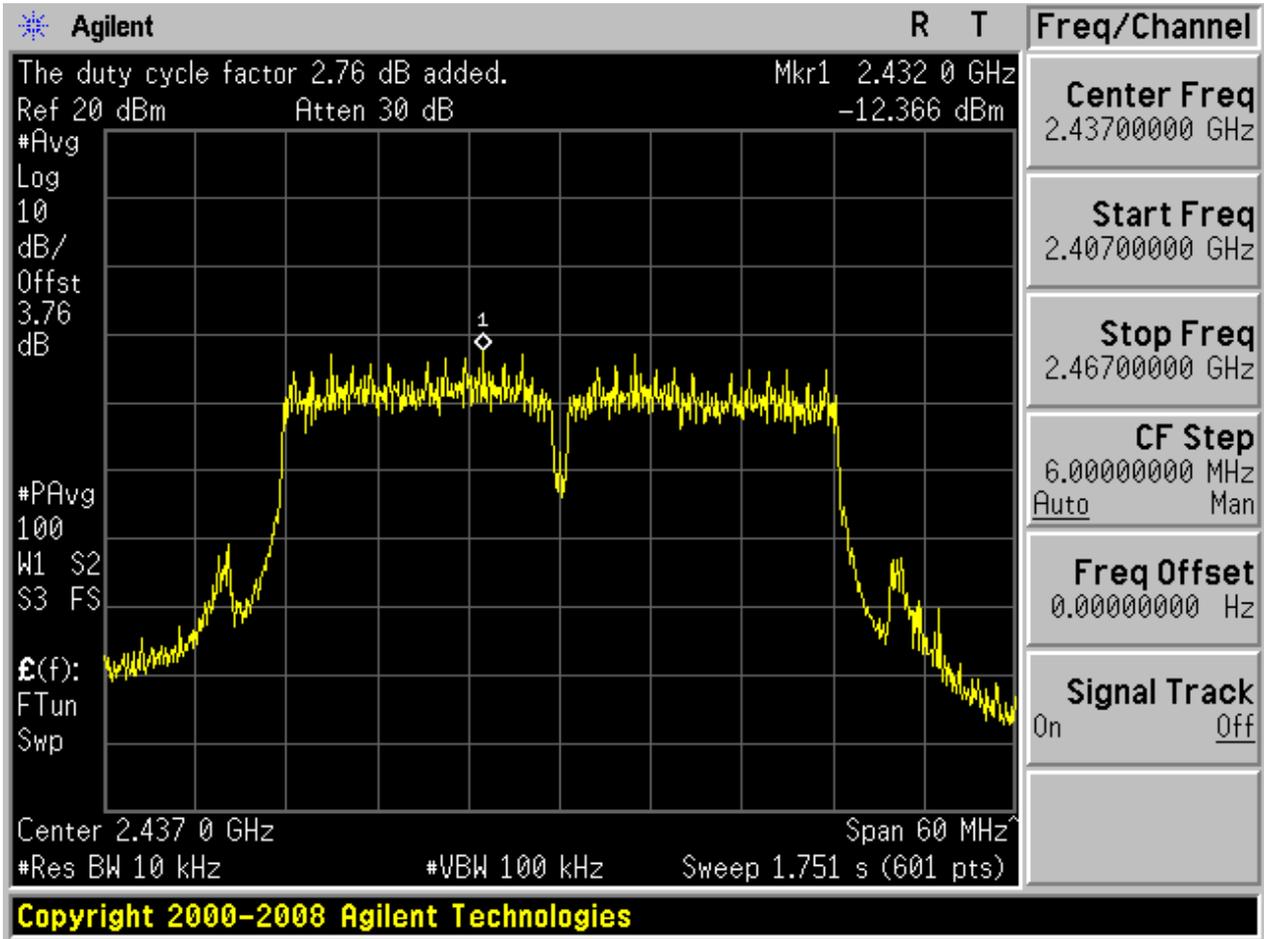




2.32 11N40m\_L@Ant 2

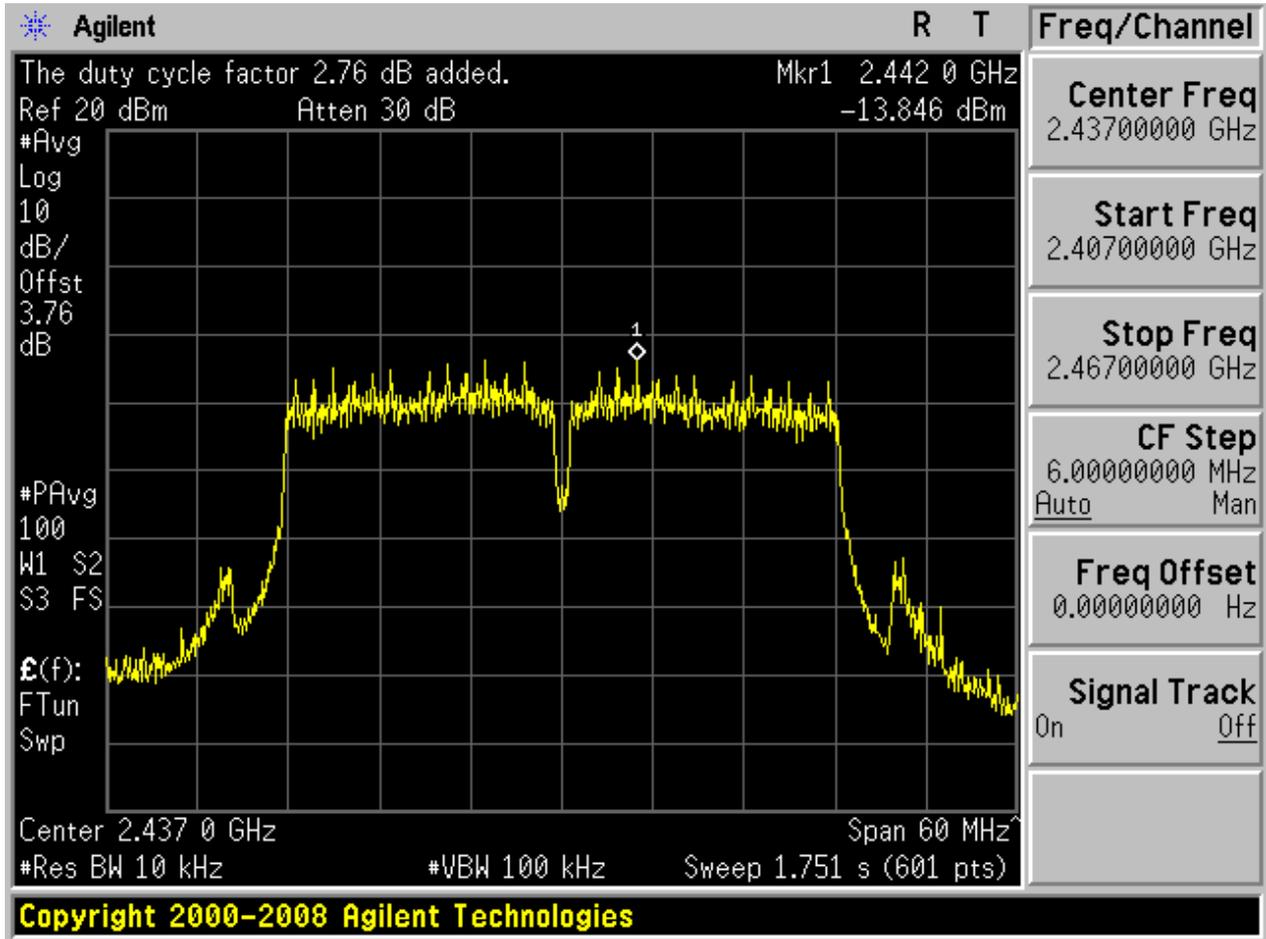


2.33 11N40m\_M@Ant 1



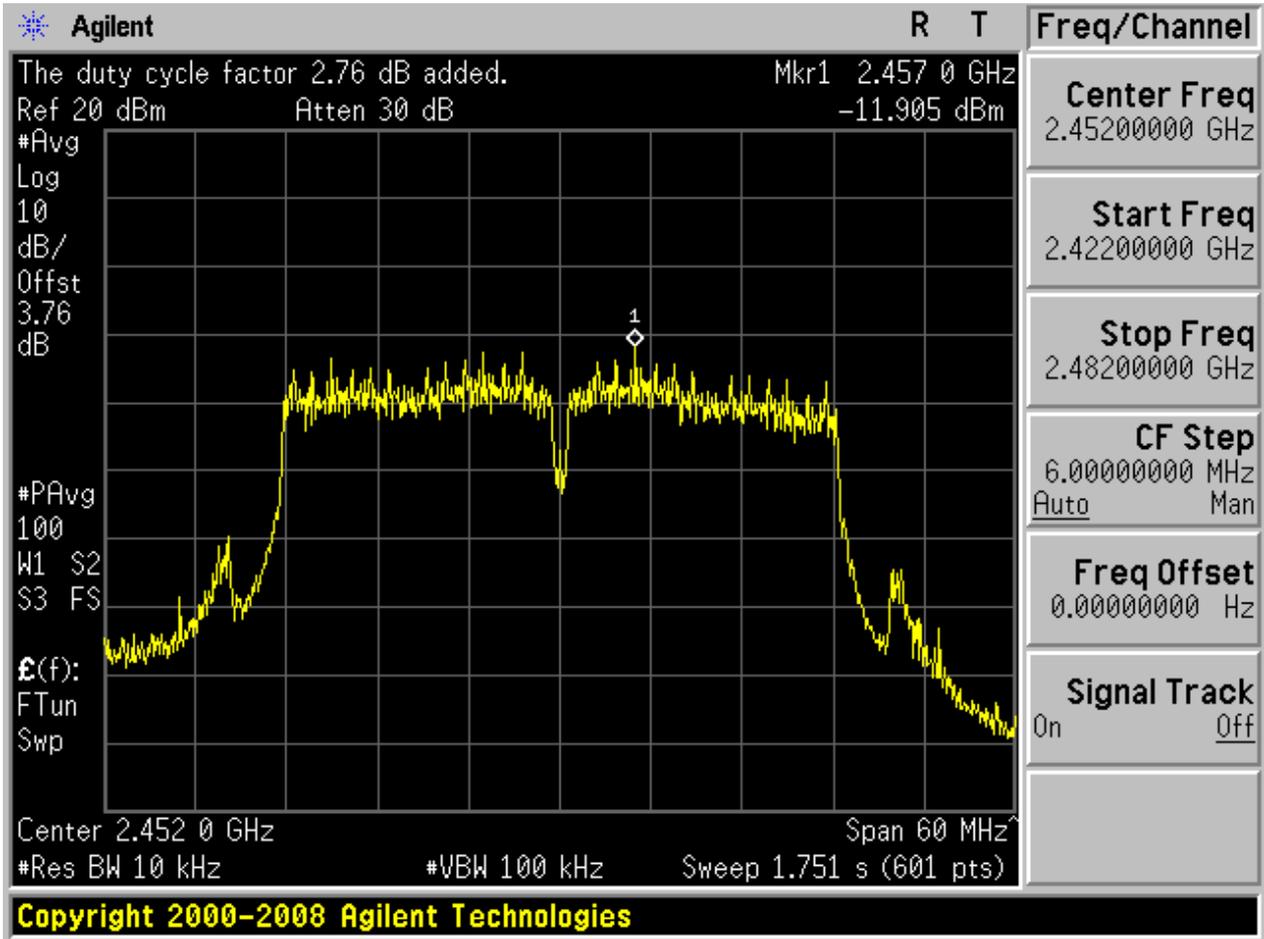


2.34 11N40m\_M@Ant 2



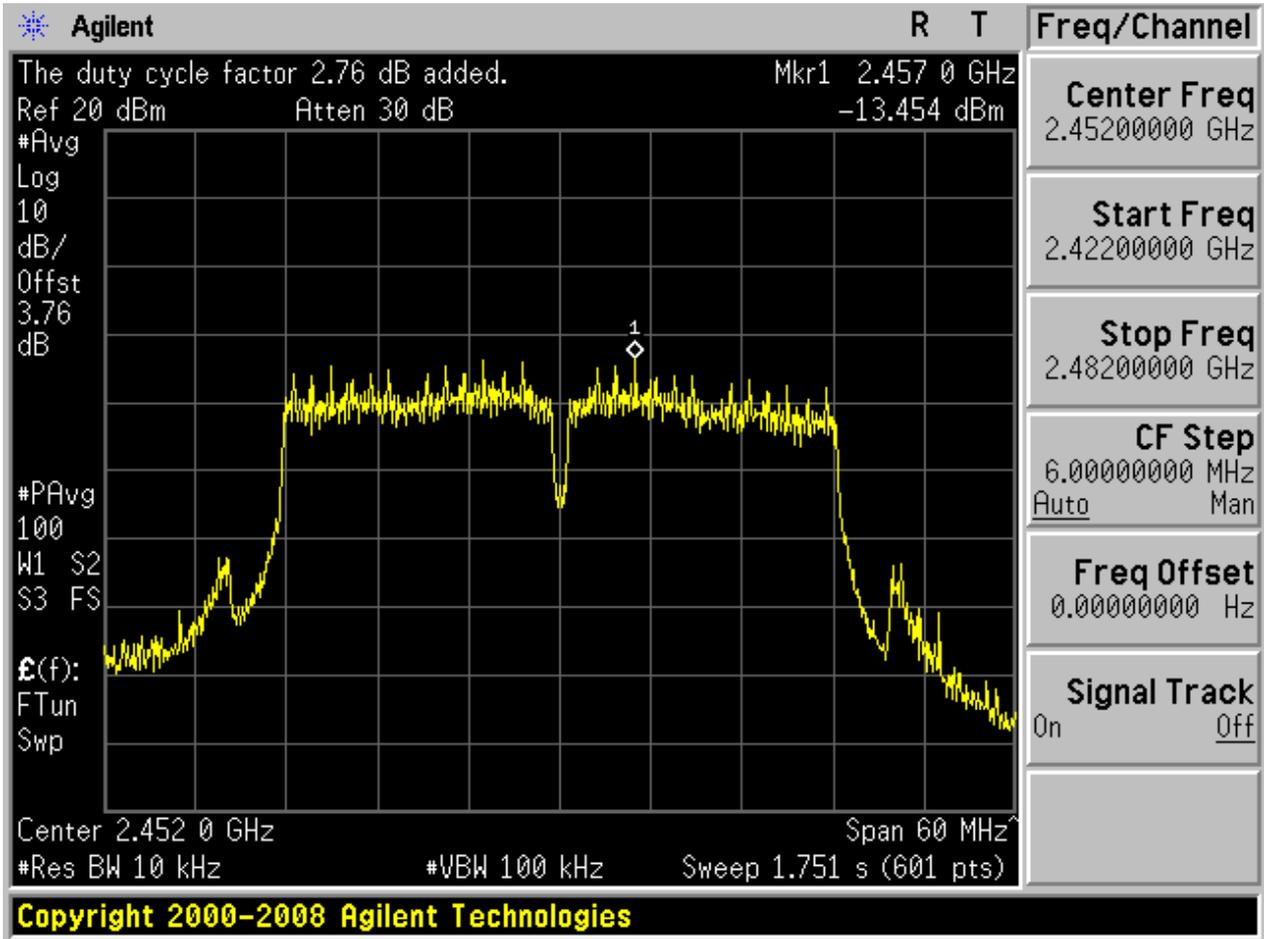


2.35 11N40m\_H@Ant 1





2.36 11N40m\_H@Ant 2





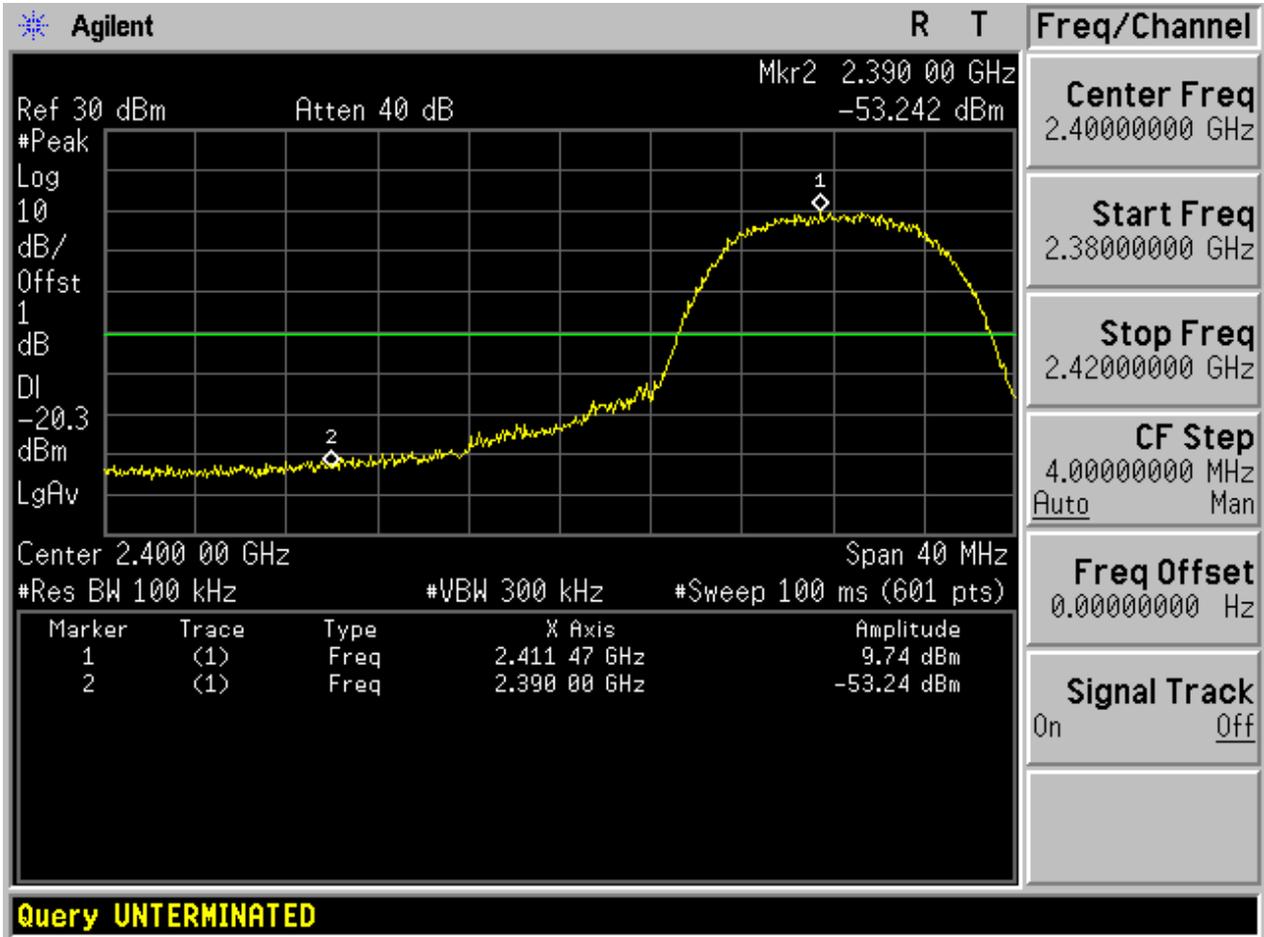
## Appendix E: Band Edges Compliance

### Part I - Test Results

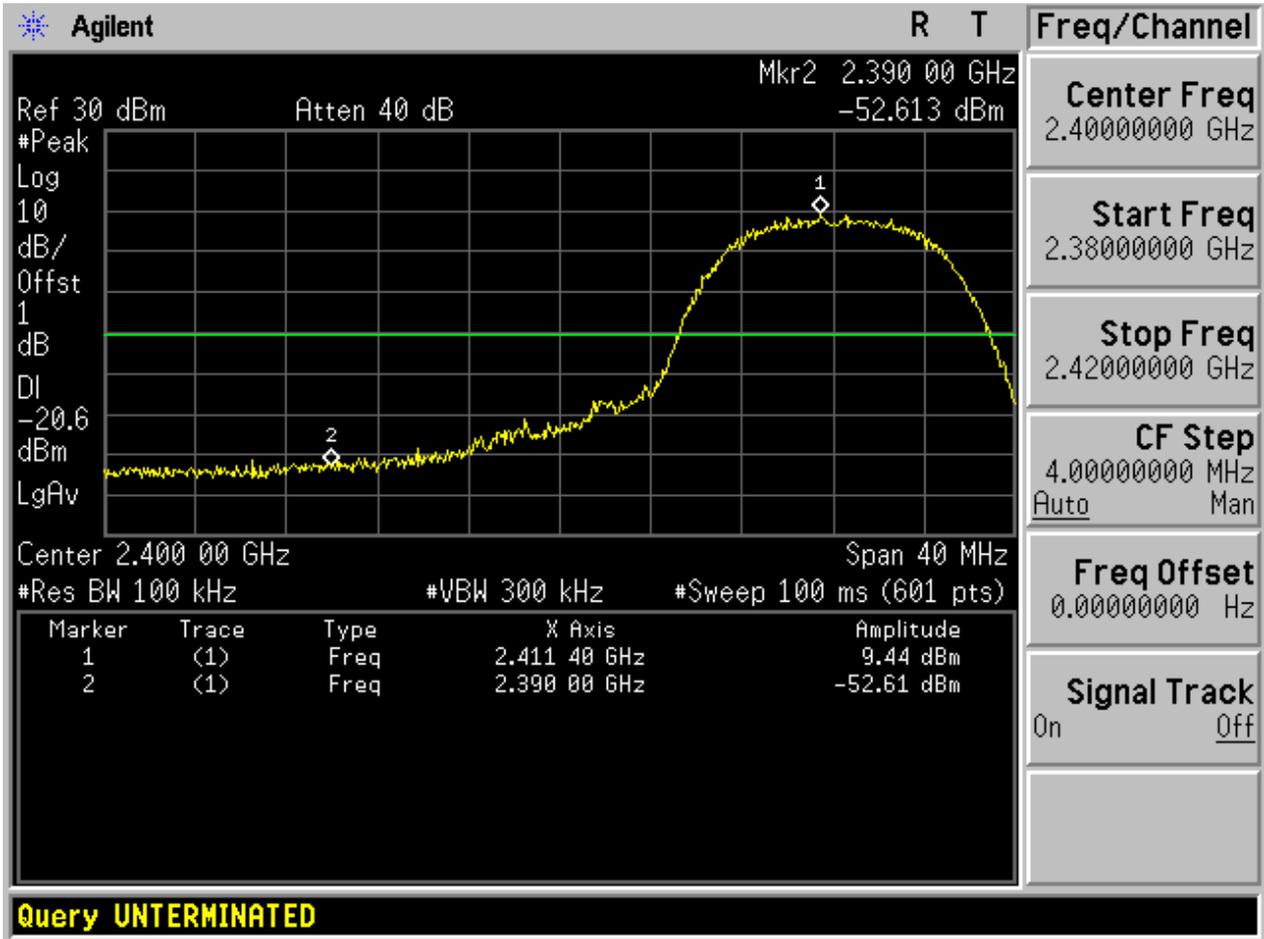
Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2412	Ant 1	9.74	-53.24	pass
11B	L	2412	Ant 2	9.44	-52.61	pass
11B	H	2462	Ant 1	9.66	-52.02	pass
11B	H	2462	Ant 2	9.33	-53.04	pass
11G	L	2412	Ant 1	3.23	-52.49	pass
11G	L	2412	Ant 2	2.19	-53.99	pass
11G	H	2462	Ant 1	3.57	-52.85	pass
11G	H	2462	Ant 2	3.46	-53.49	pass
11N20	L	2412	Ant 1	5.85	-46.79	pass
11N20	L	2412	Ant 2	5.46	-48.76	pass
11N20	H	2462	Ant 1	6.87	-45.29	pass
11N20	H	2462	Ant 2	6.55	-47.60	pass
11N20m	L	2412	Ant 1	3.77	-49.40	pass
11N20m	L	2412	Ant 2	3.20	-51.21	pass
11N20m	H	2462	Ant 1	4.30	-53.51	pass
11N20m	H	2462	Ant 2	4.20	-51.72	pass
11N40	L	2422	Ant 1	5.42	-43.50	pass
11N40	L	2422	Ant 2	3.75	-43.63	pass
11N40	H	2452	Ant 1	4.98	-42.87	pass
11N40	H	2452	Ant 2	4.54	-49.19	pass
11N40m	L	2422	Ant 1	3.37	-48.16	pass
11N40m	L	2422	Ant 2	1.00	-46.75	pass
11N40m	H	2452	Ant 1	2.96	-49.81	pass
11N40m	H	2452	Ant 2	1.75	-49.81	pass

Part II - Test Plots

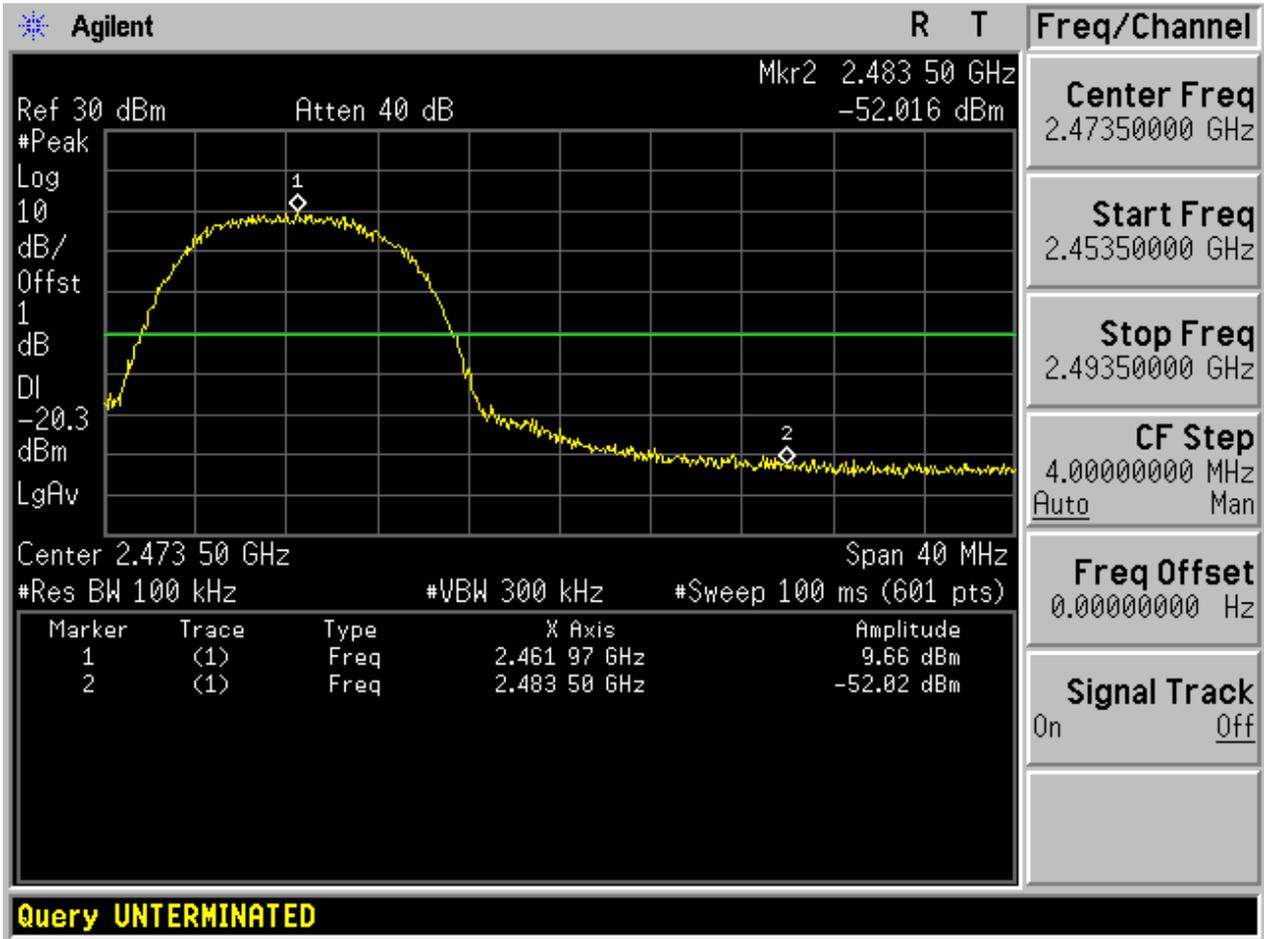
2.1 11B\_L@Ant 1



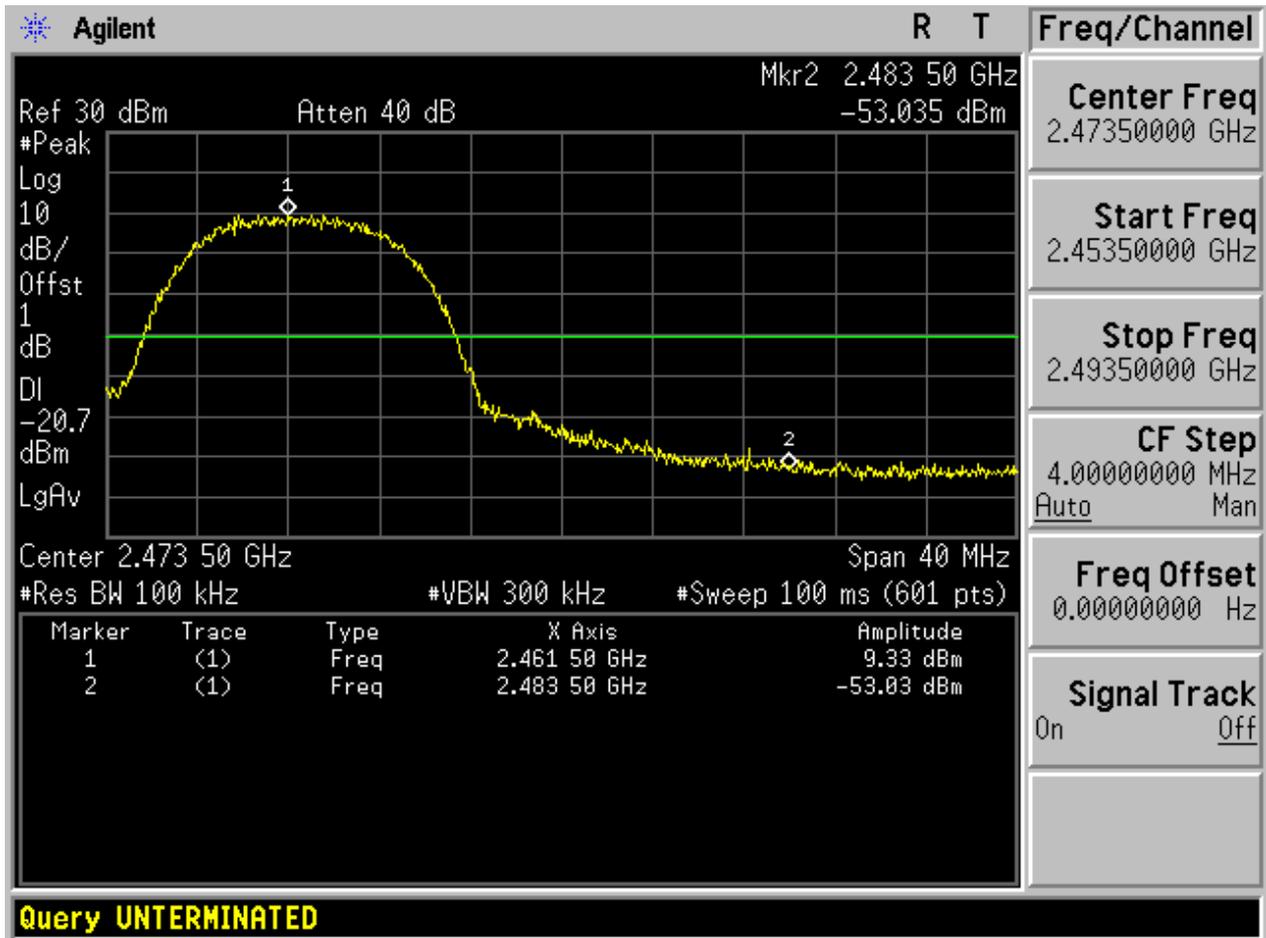
2.2 11B\_L@Ant 2



2.3 11B\_H@Ant 1

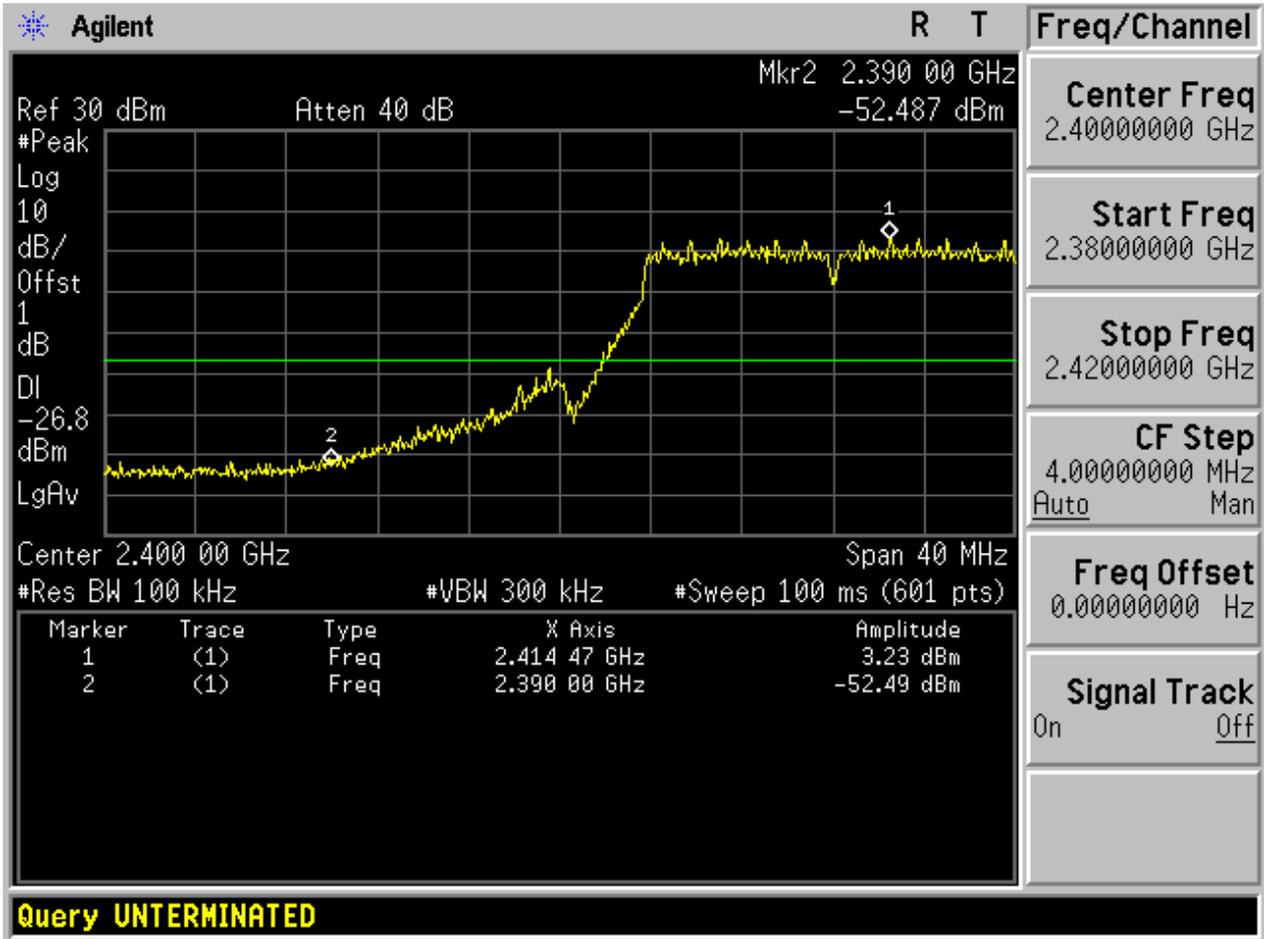


## 2.4 11B\_H@Ant 2

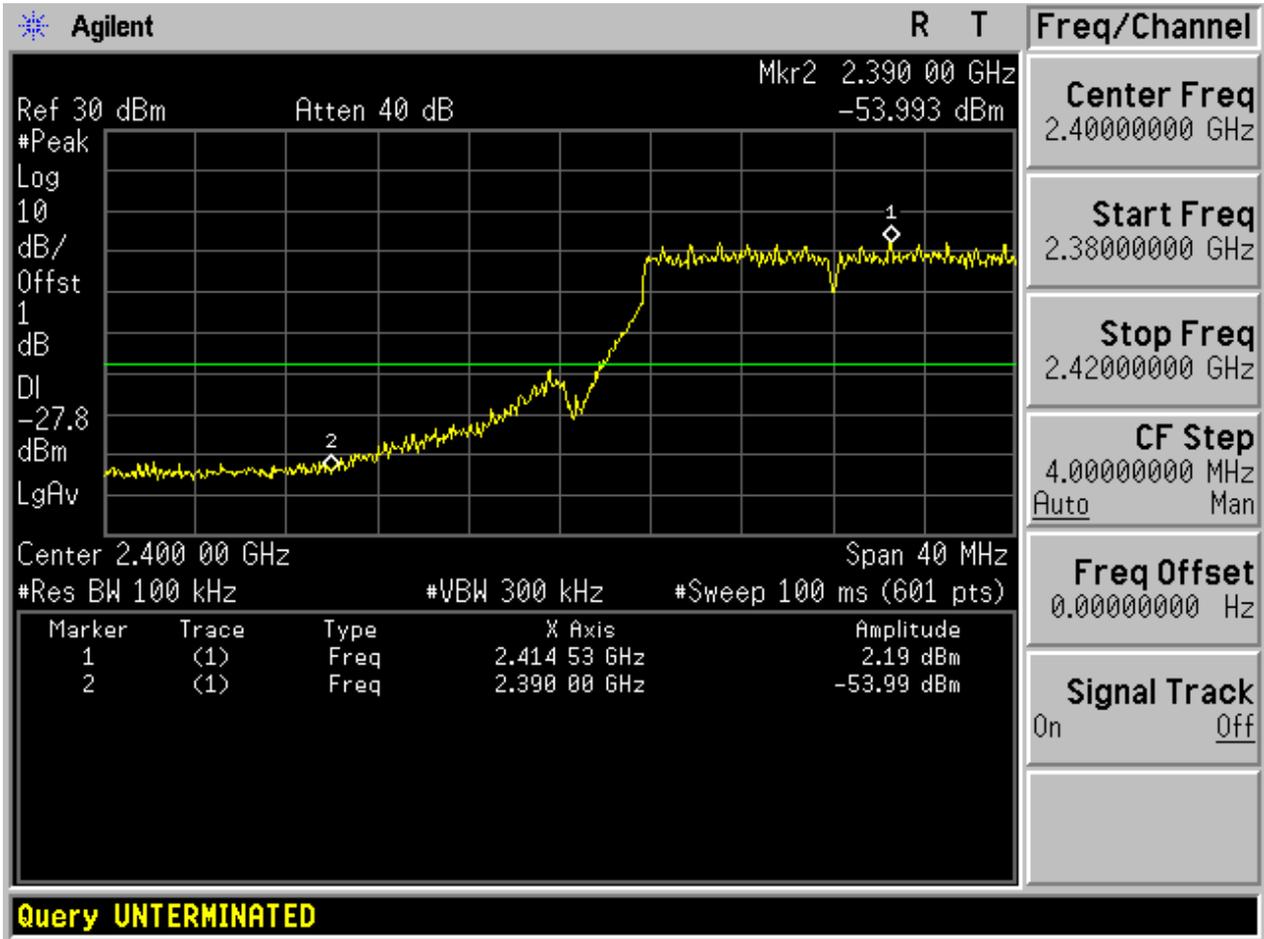




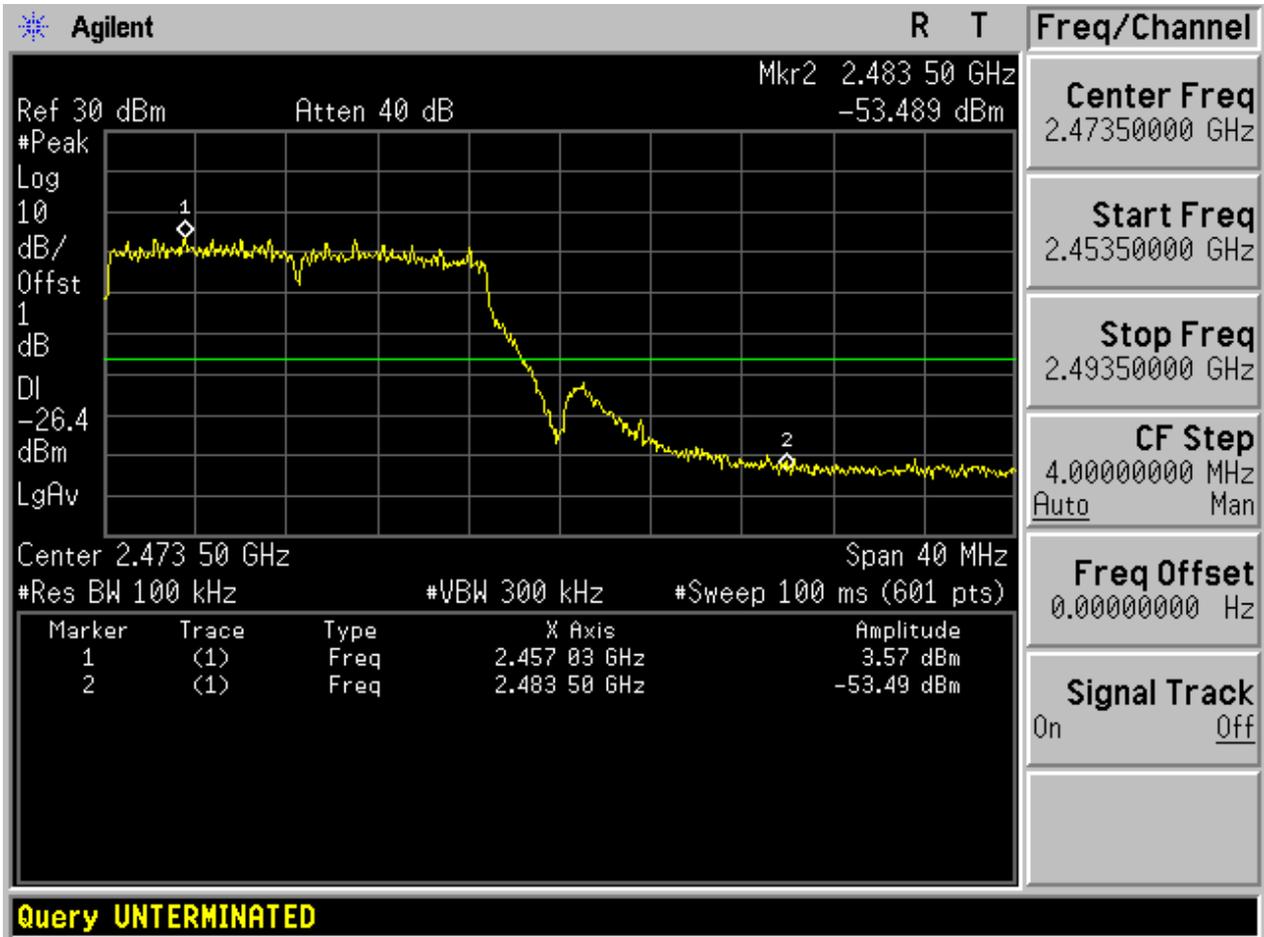
2.5 11G\_L@Ant 1



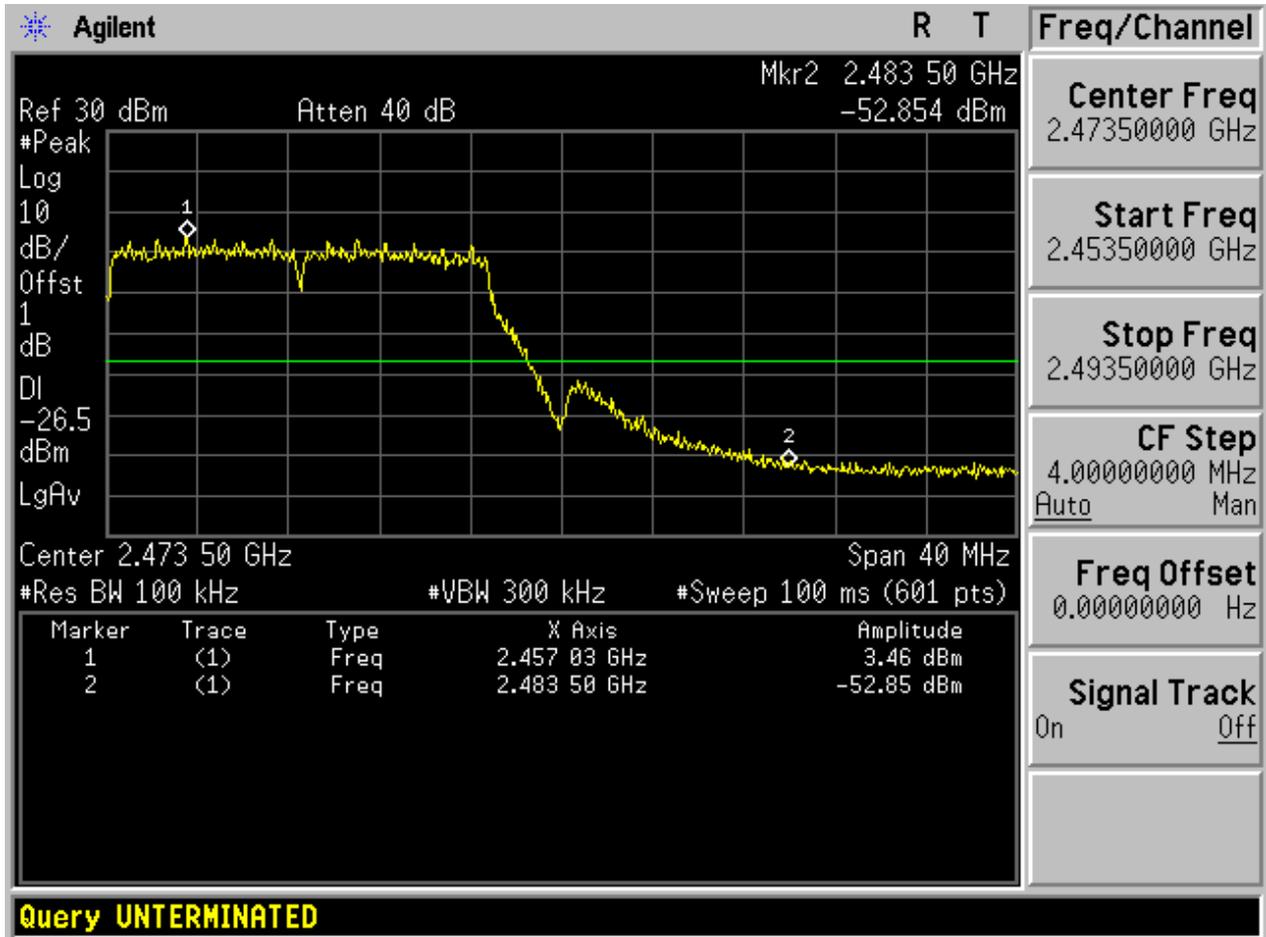
2.6 11G\_L@Ant 2



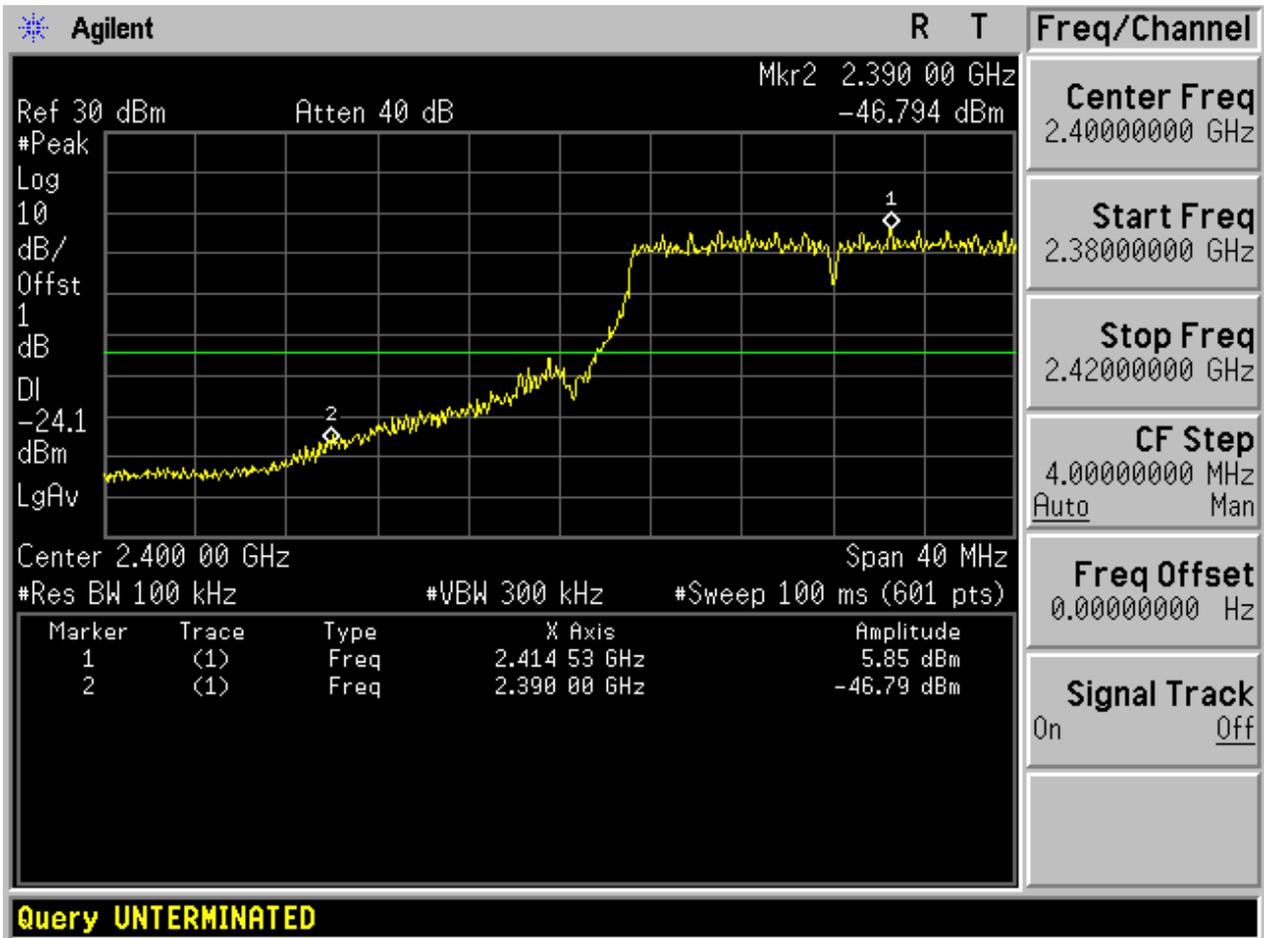
2.7 11G\_H@Ant 1



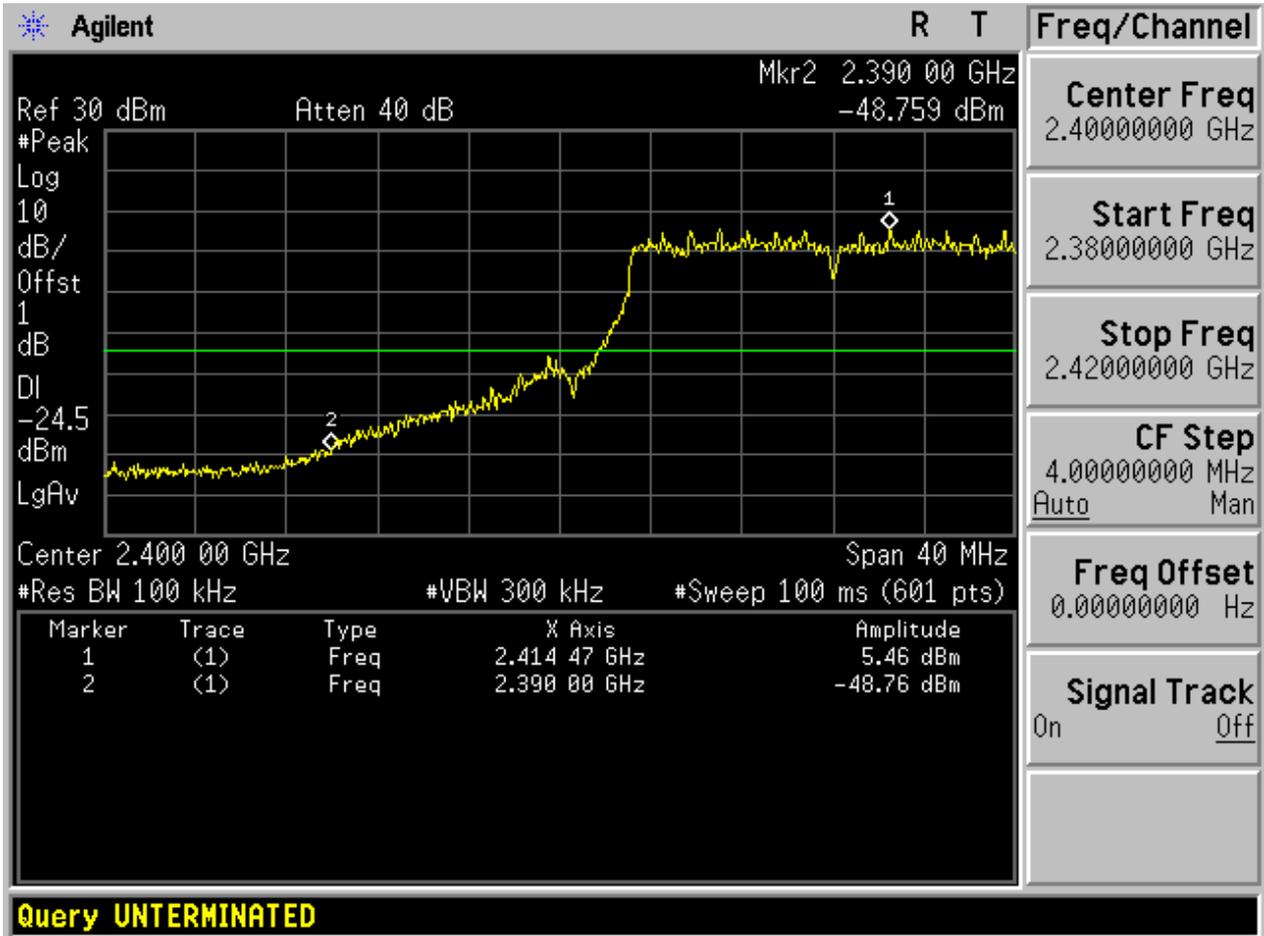
## 2.8 11G\_H@Ant 2



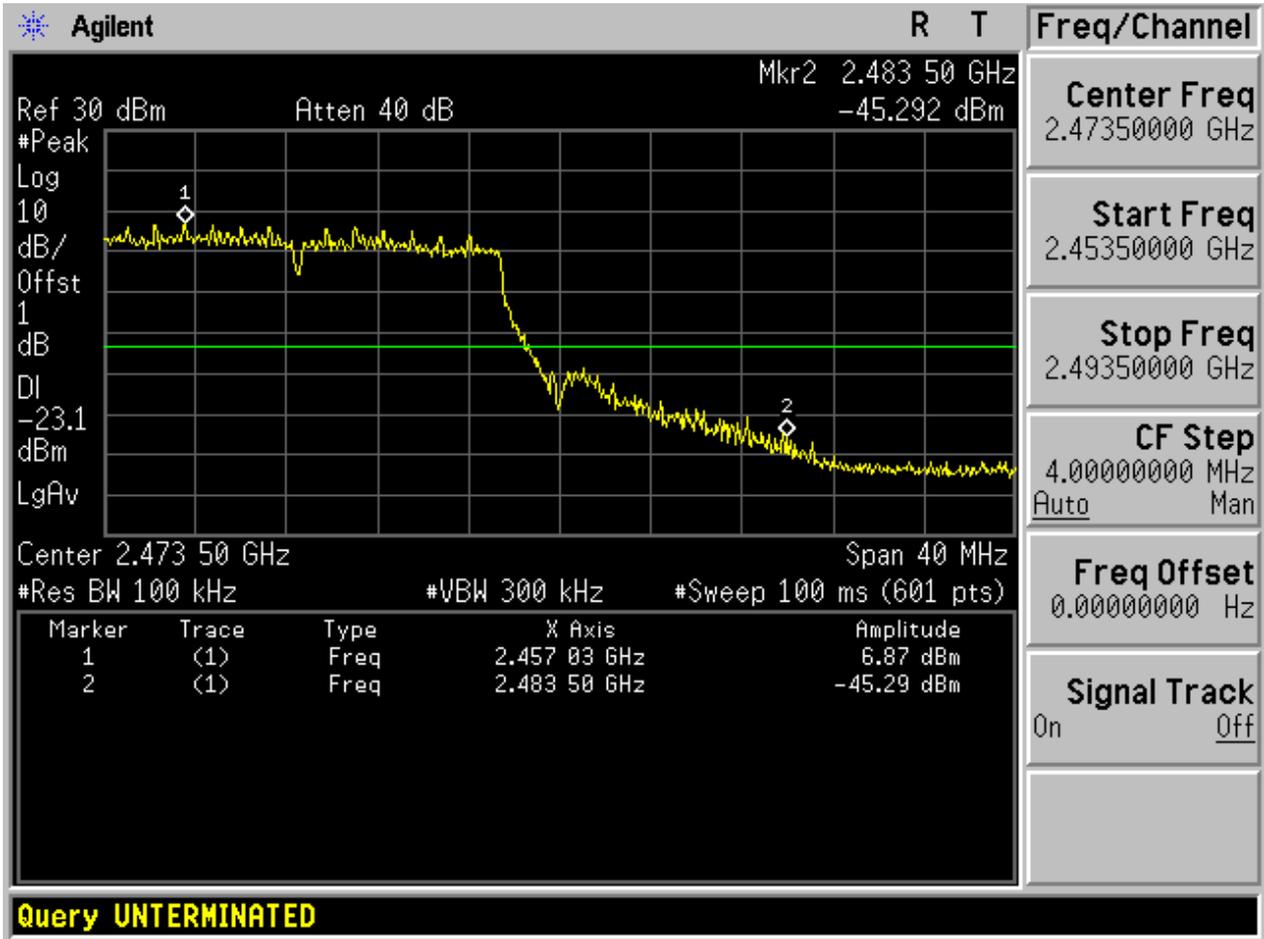
2.9 11N20\_L@Ant 1



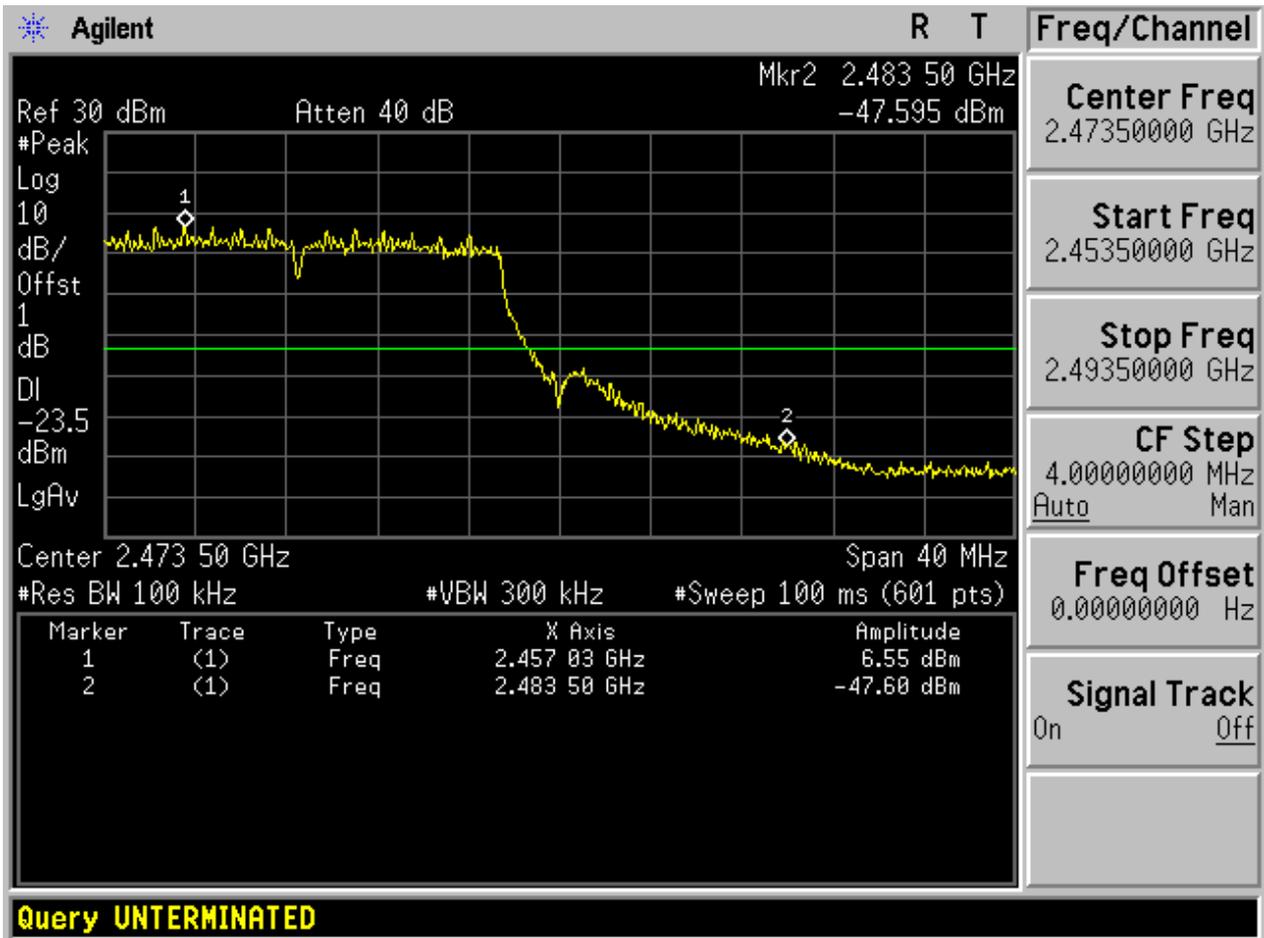
2.10 11N20\_L@Ant 2



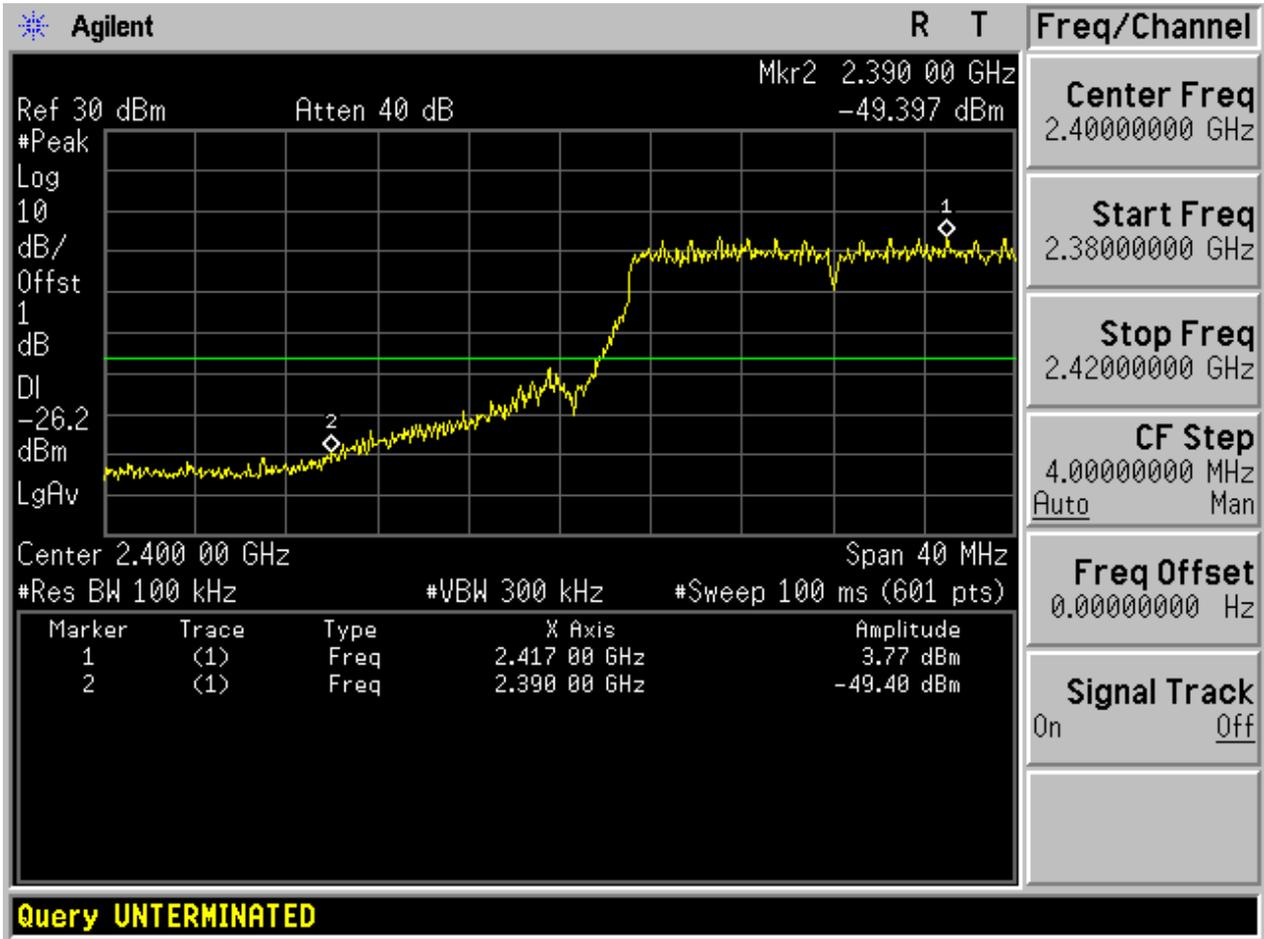
2.11 11N20\_H@Ant 1



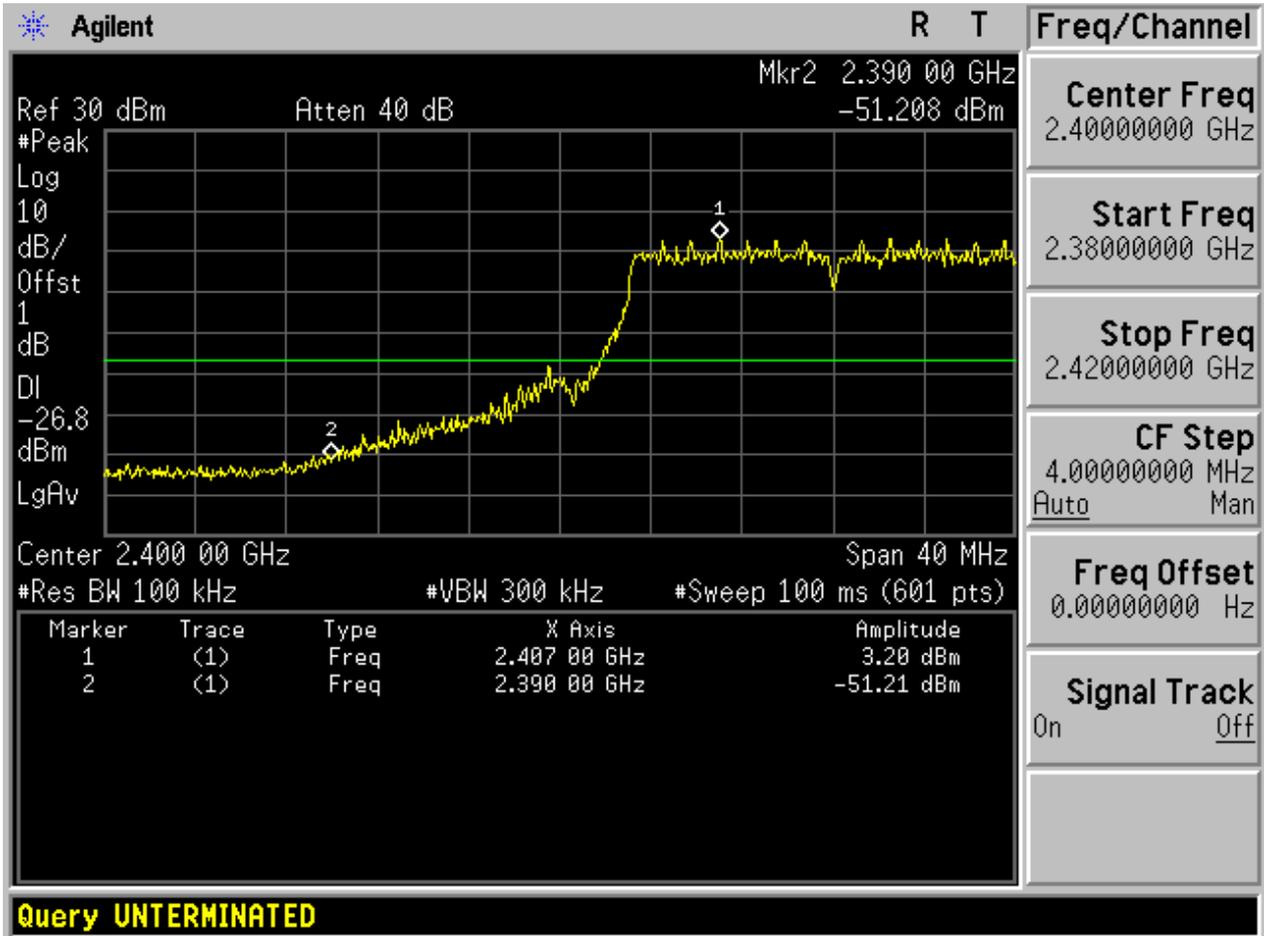
2.12 11N20\_H@Ant 2



2.9 11N20m\_L@Ant 1

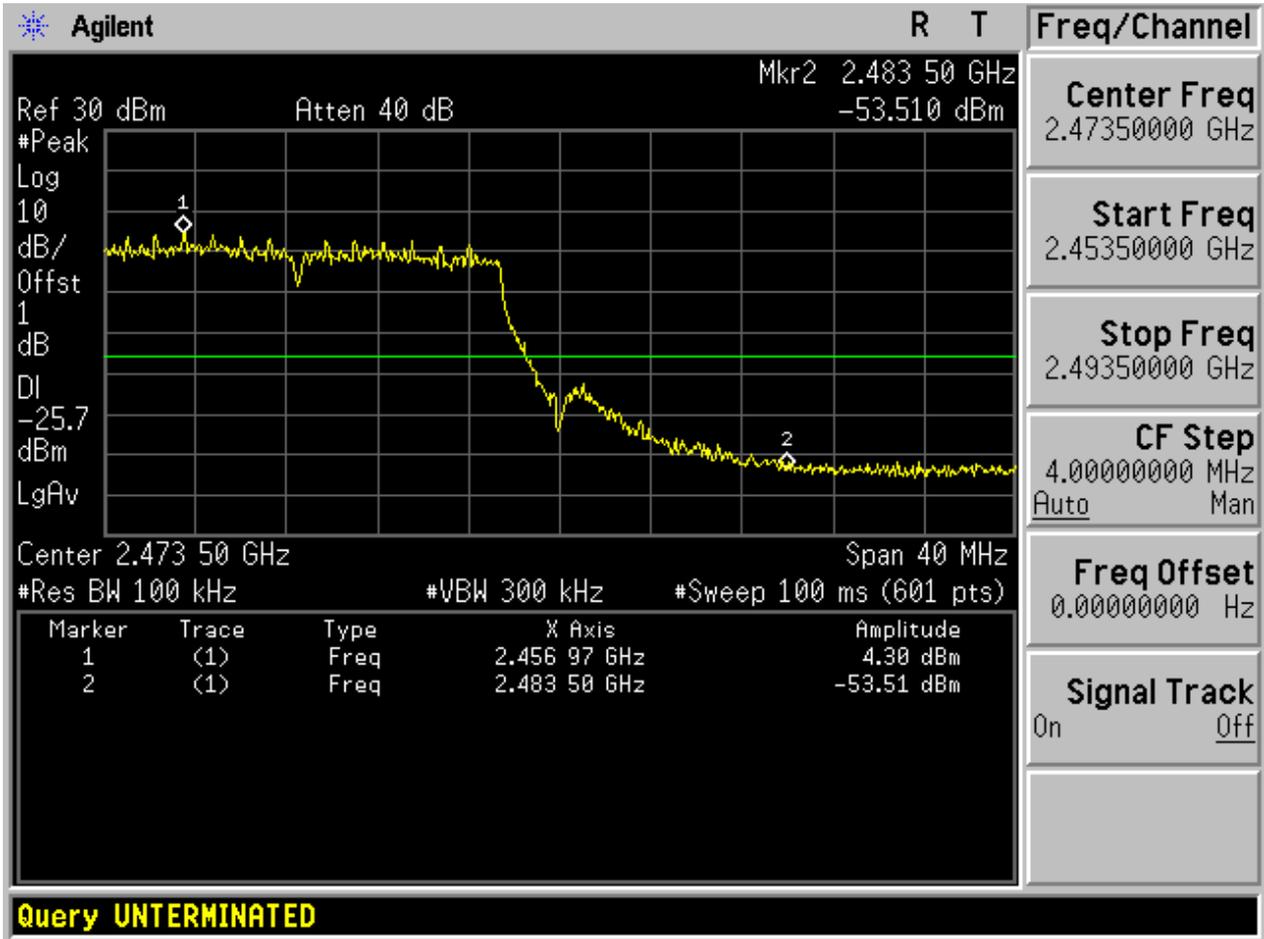


2.10 11N20m\_L@Ant 2

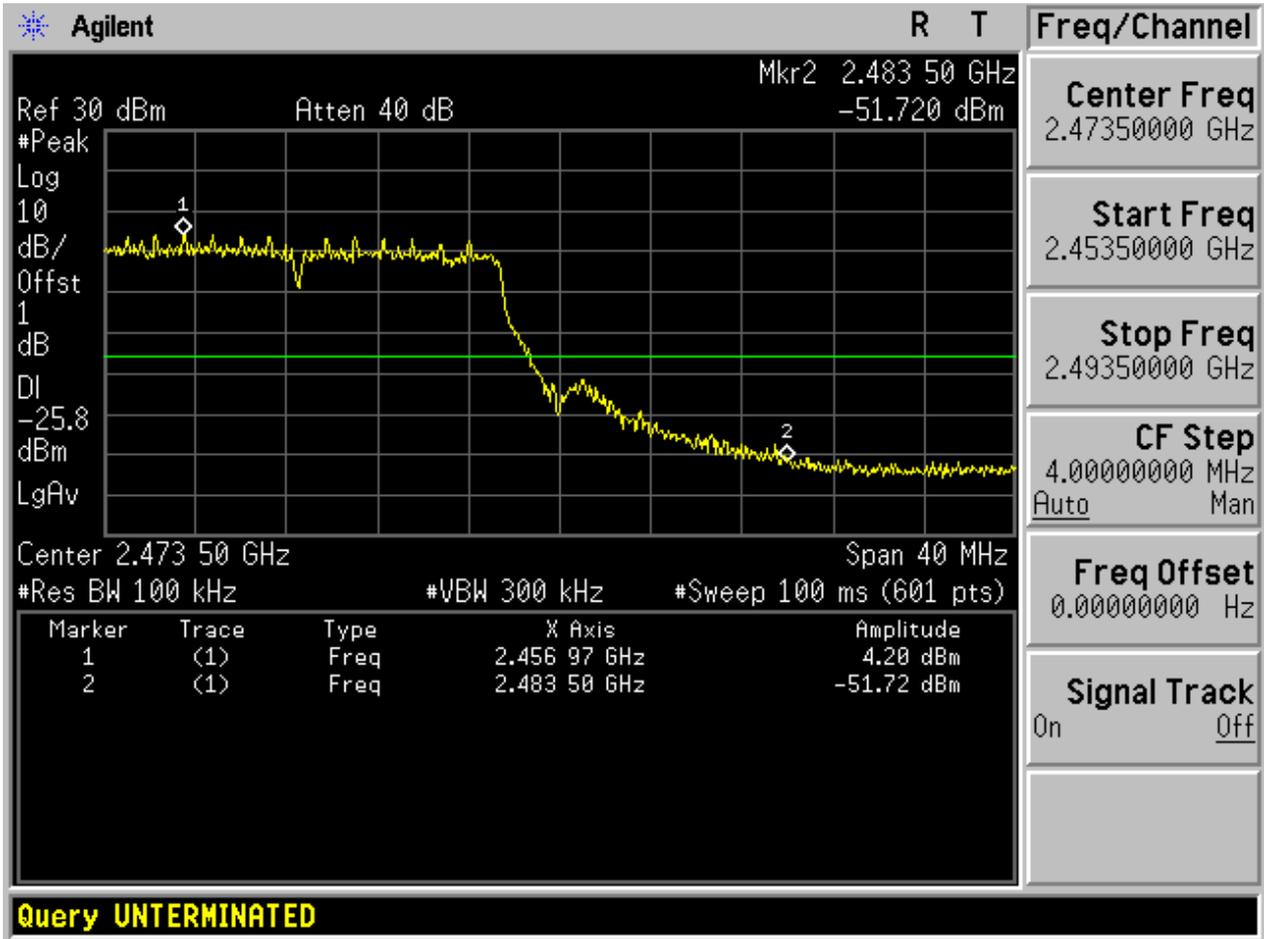




2.11 11N20m\_H@Ant 1

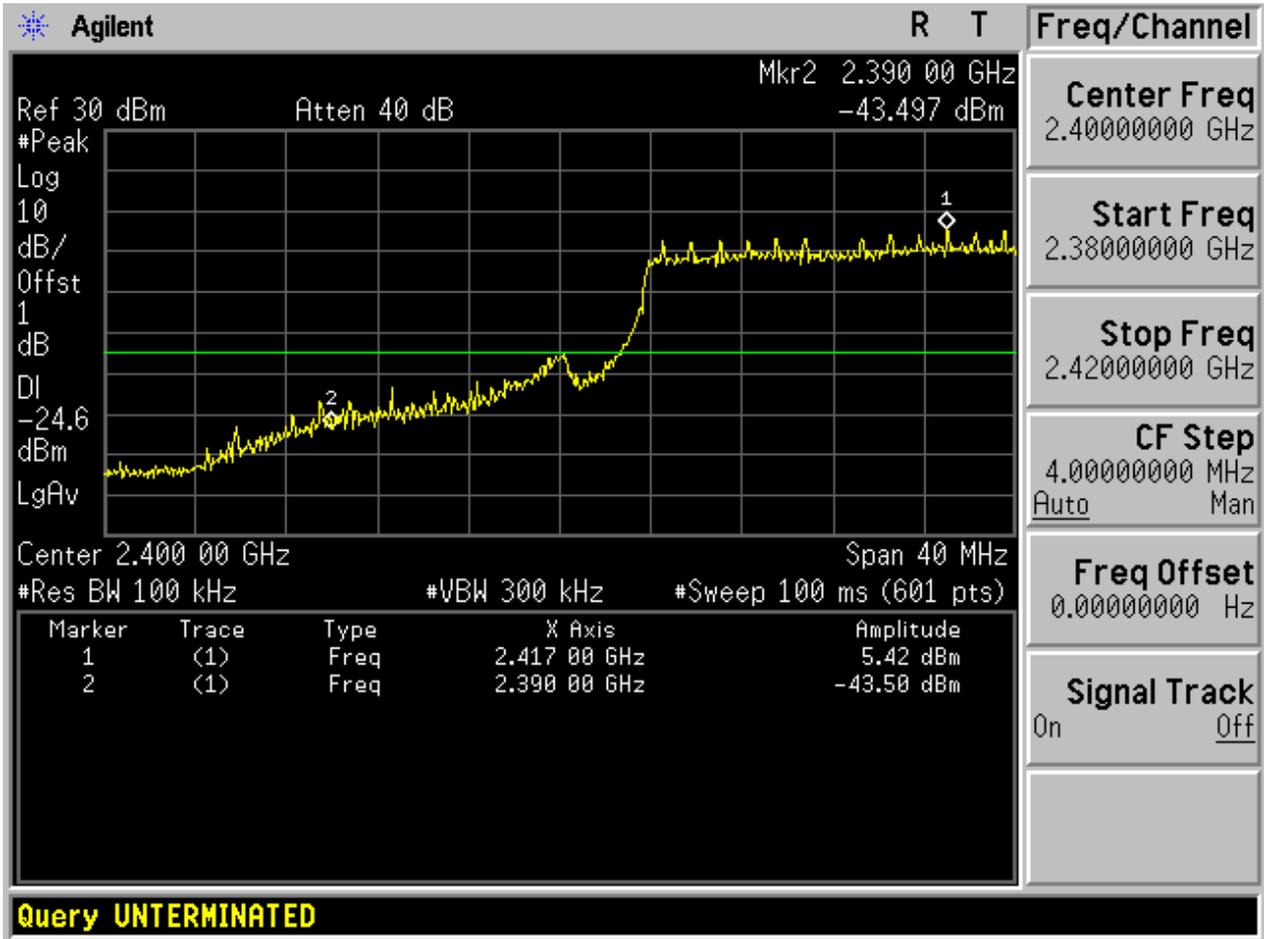


2.12 11N20m\_H@Ant 2

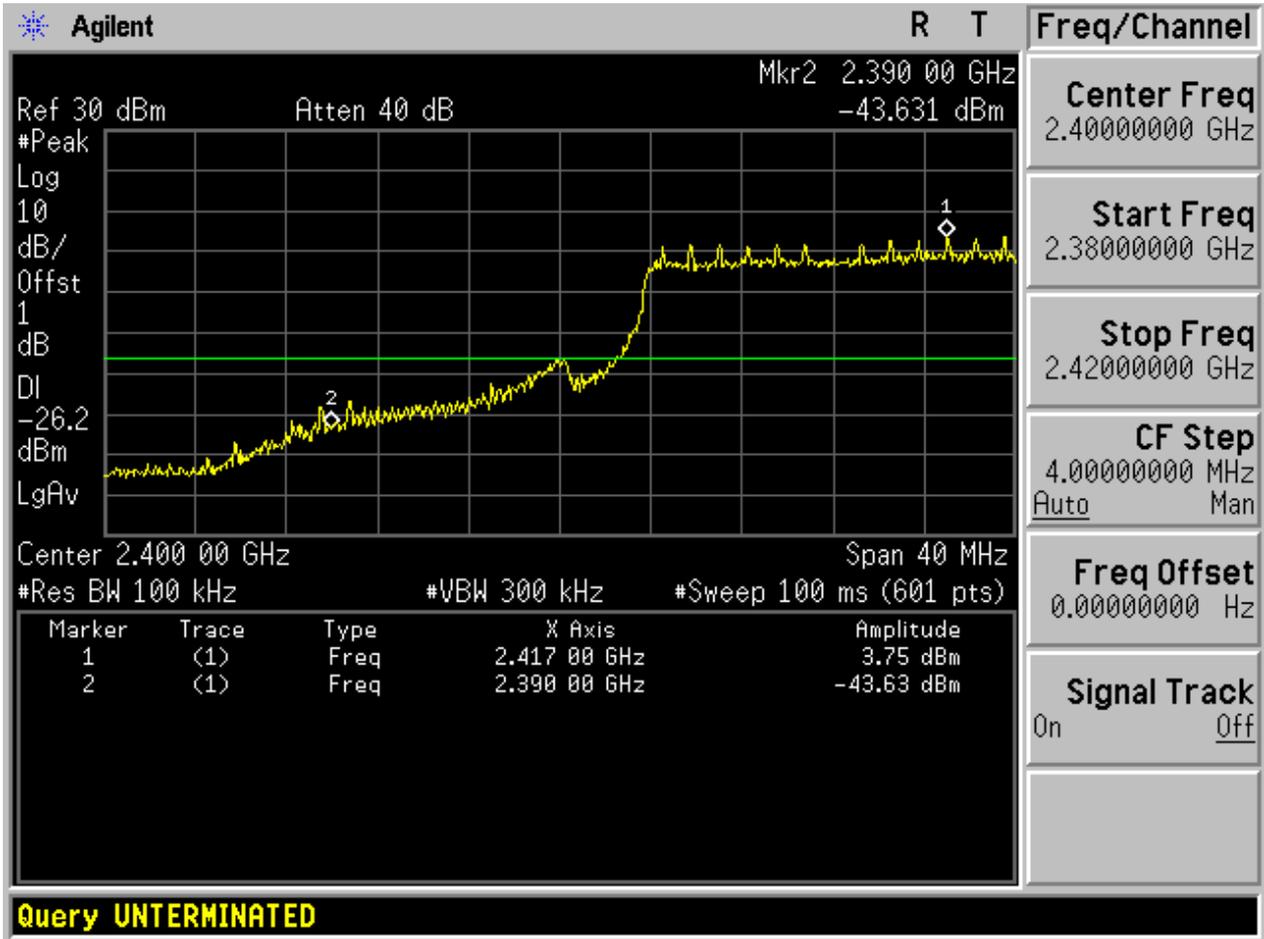




2.13 11N40\_L@Ant 1

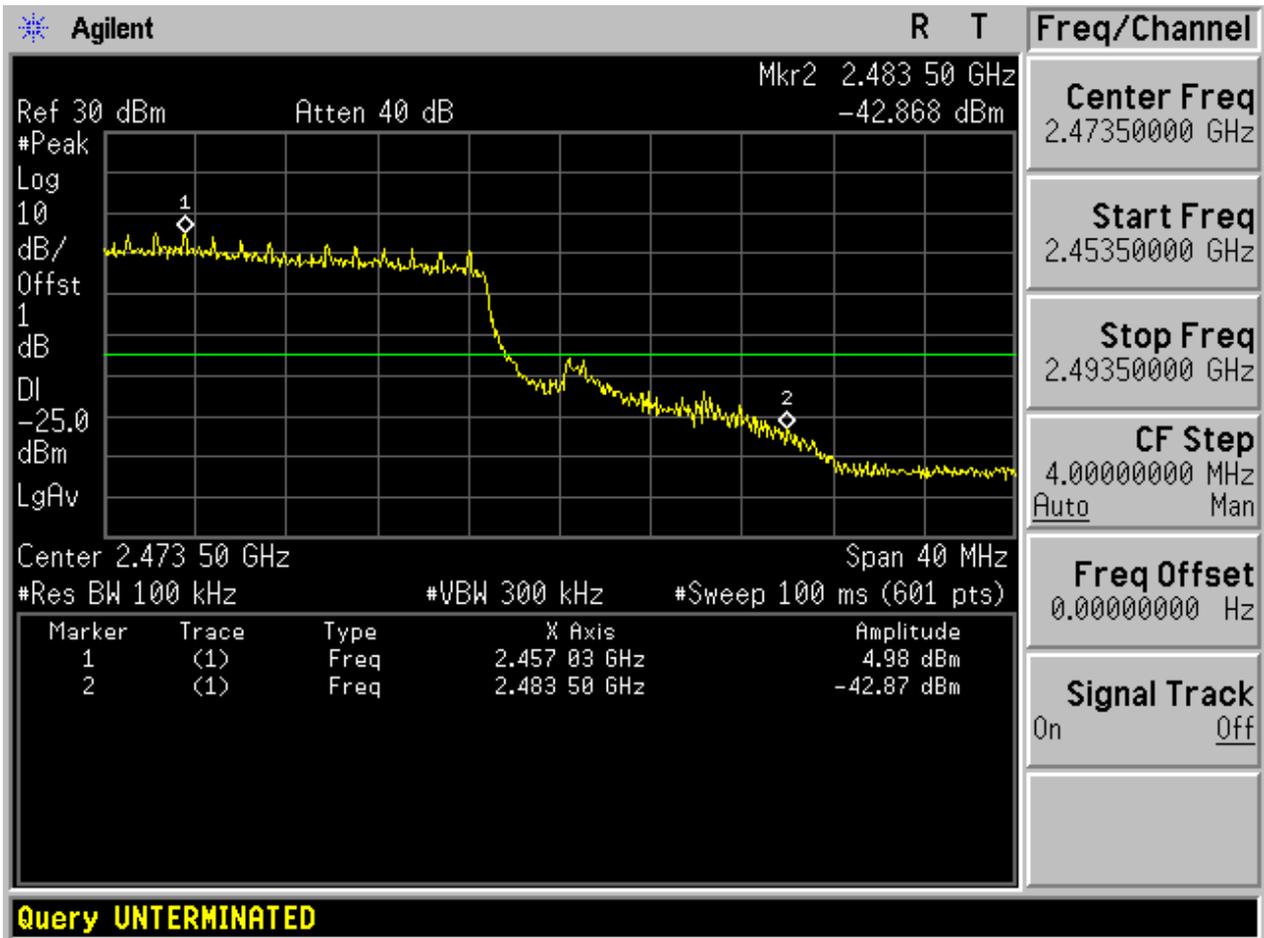


2.14 11N40\_L@Ant 2

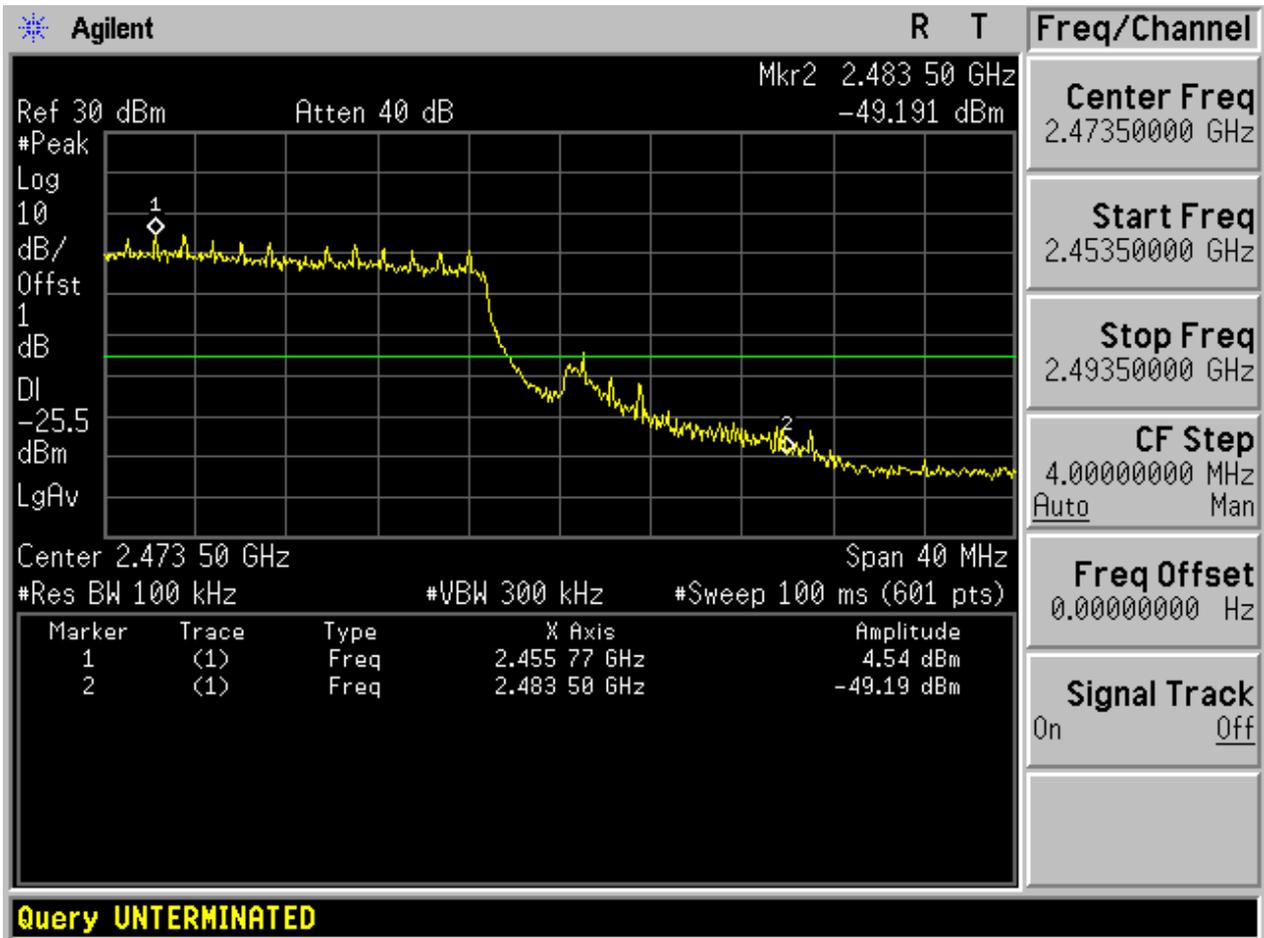




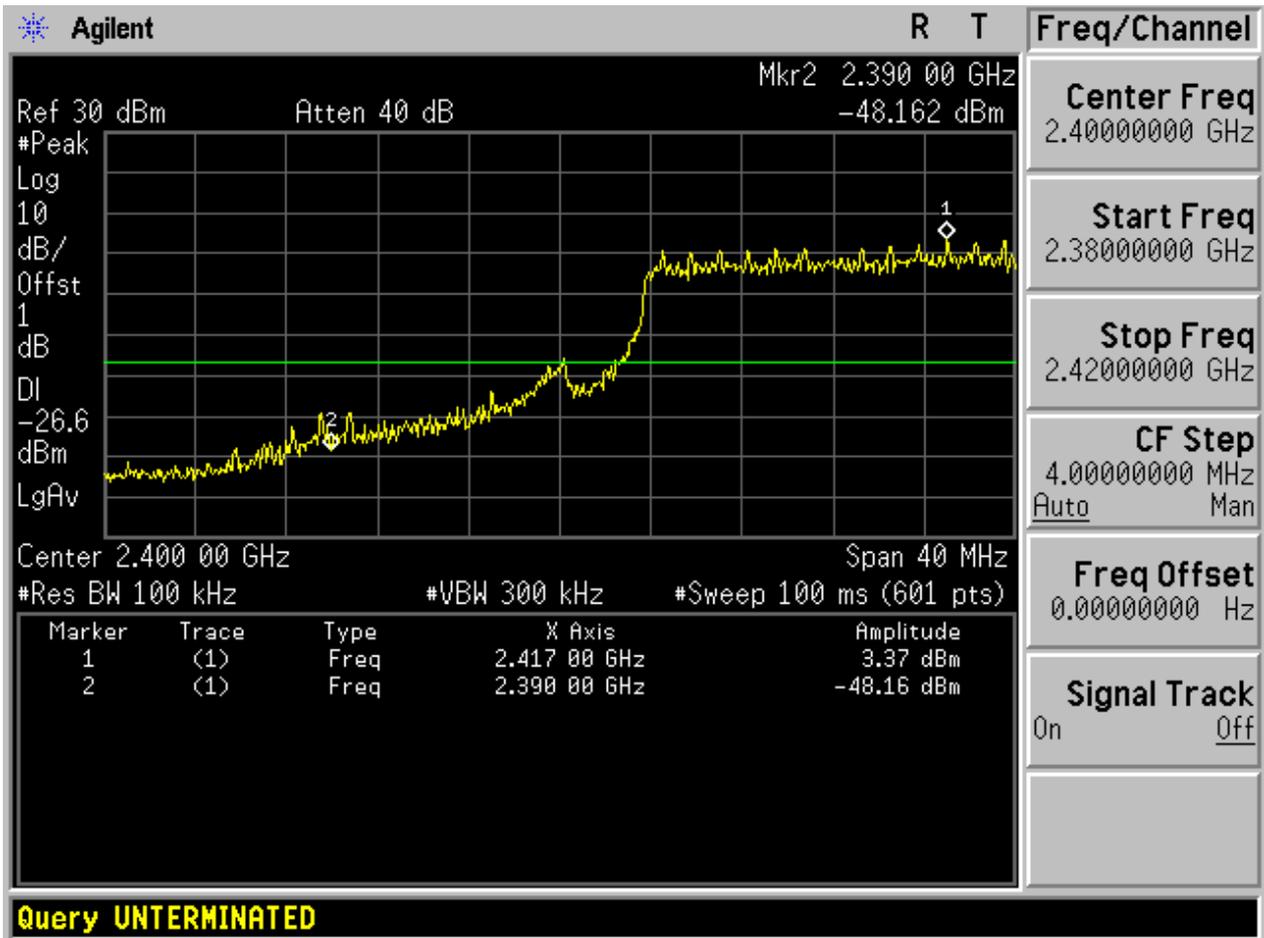
2.15 11N40\_H@Ant 1



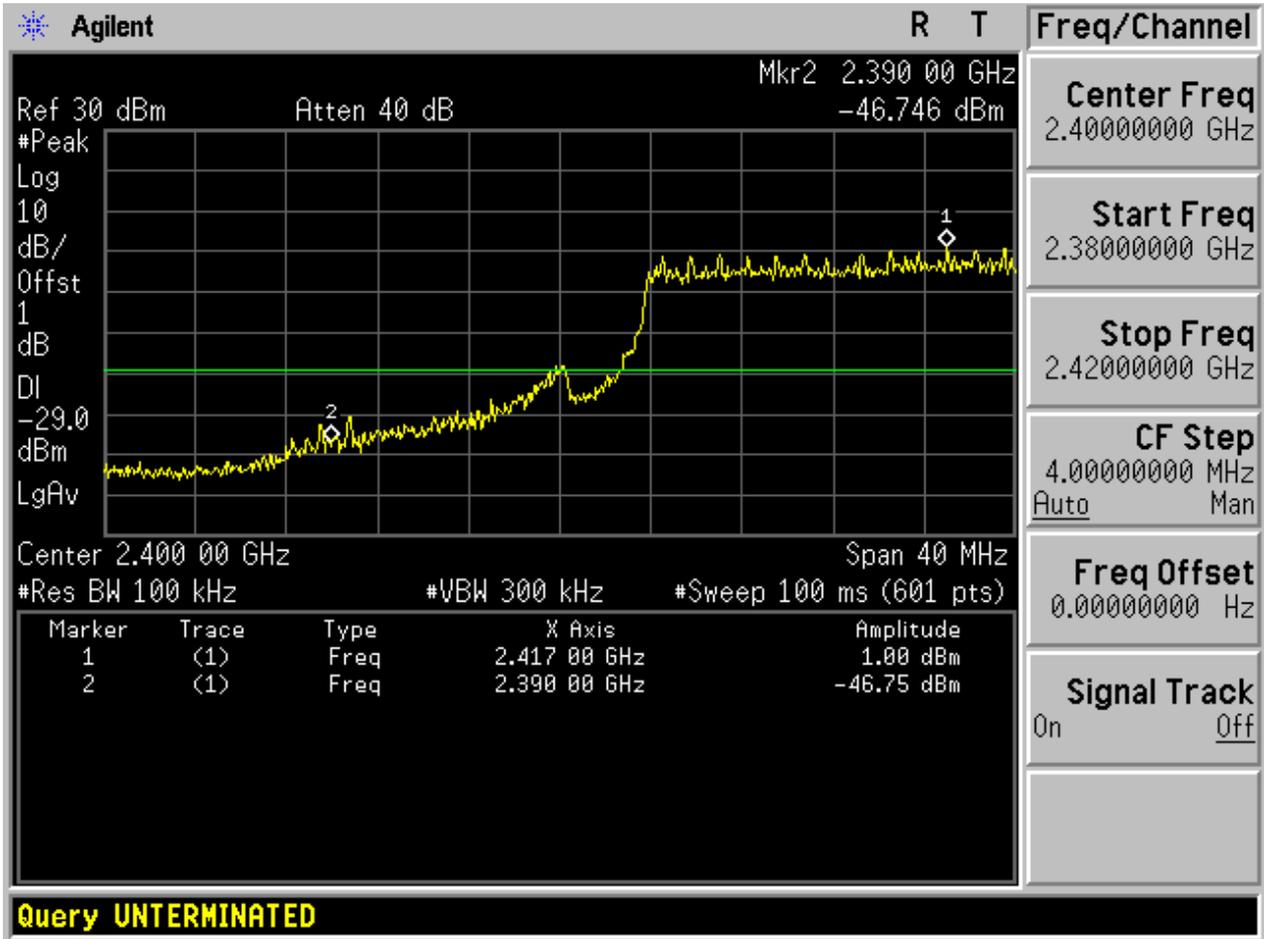
2.16 11N40\_H@Ant 2



2.21 11N40m\_L@Ant 1

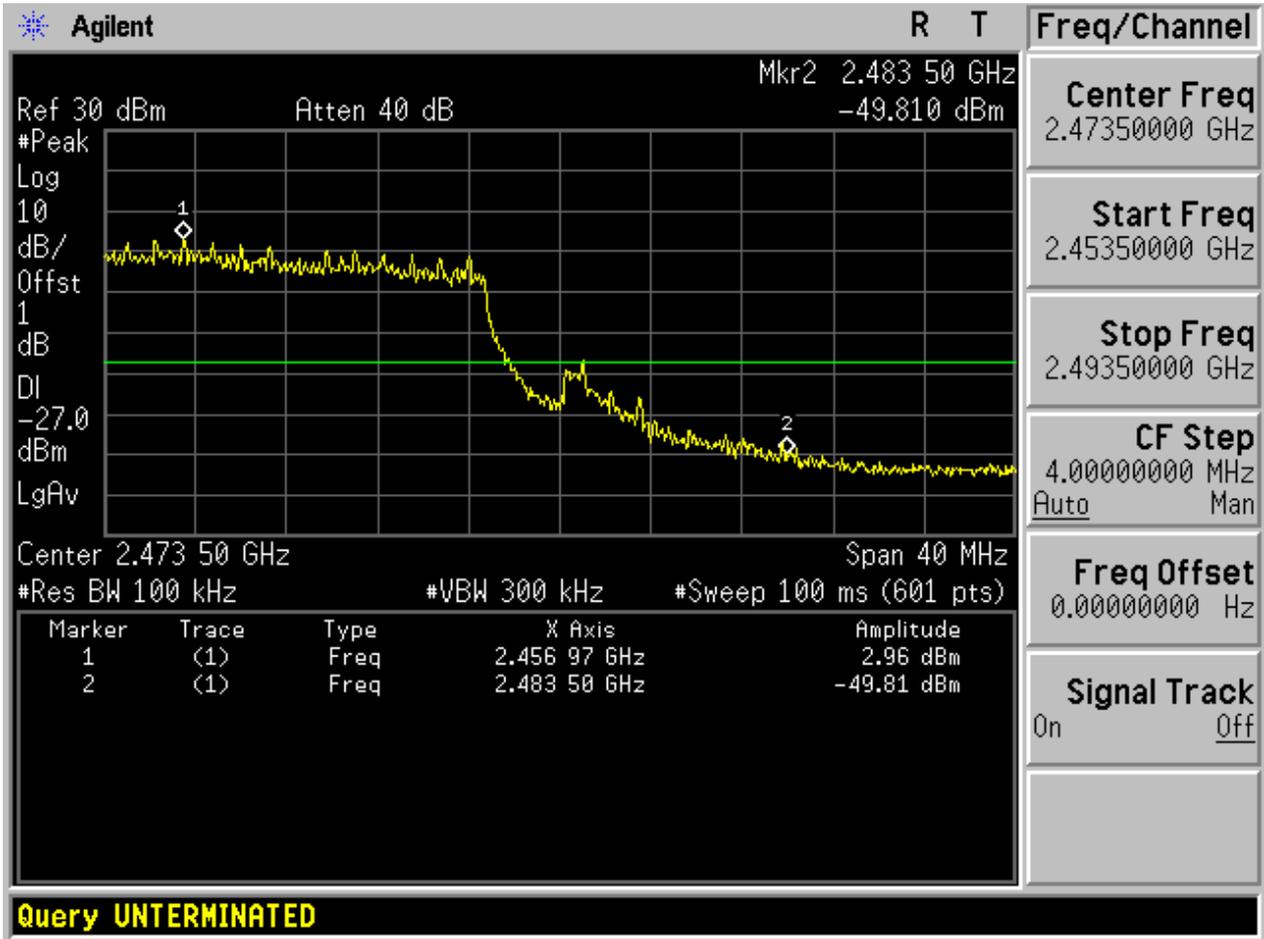


2.22 11N40m\_L@Ant 2

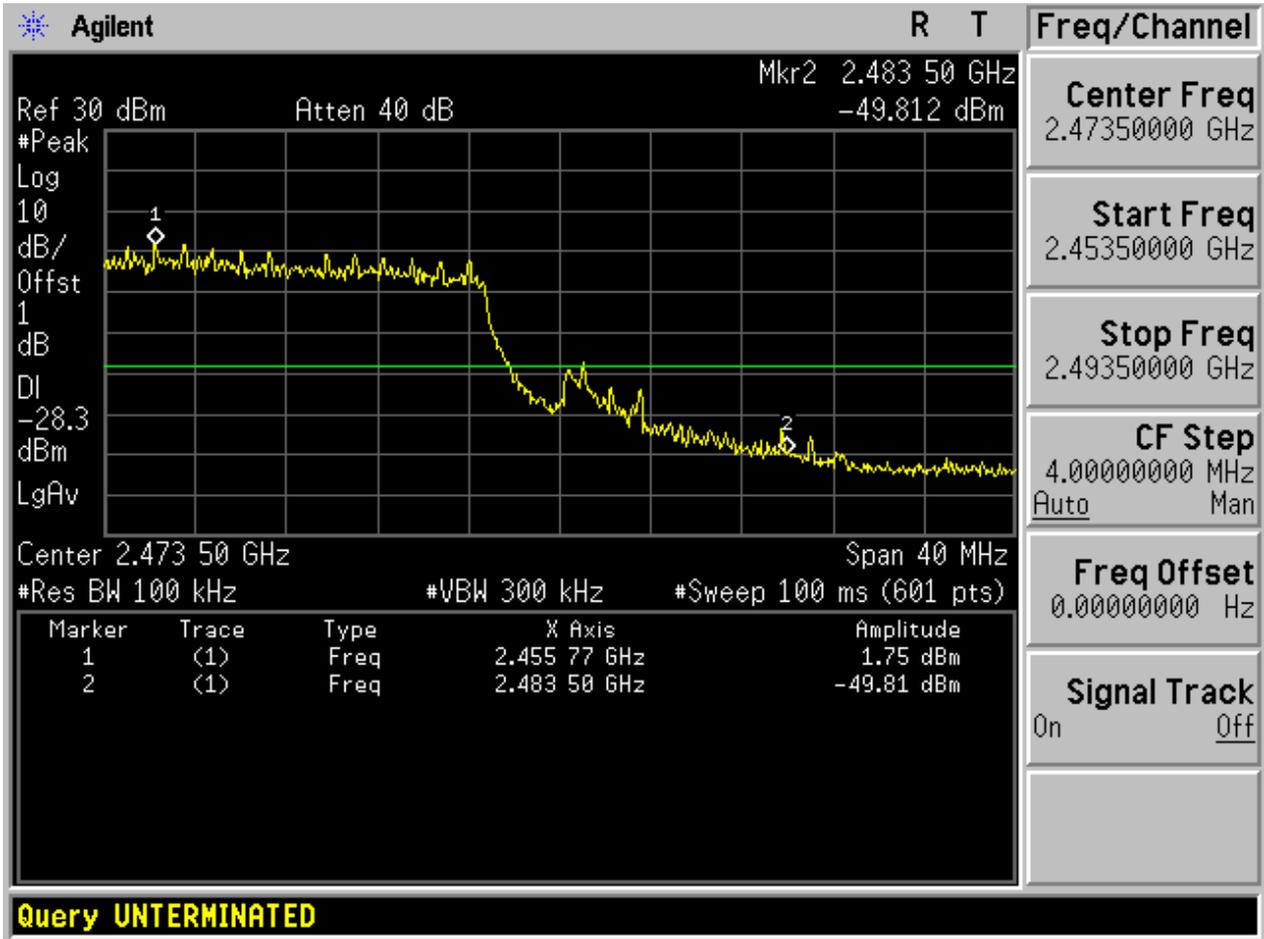




2.23 11N40m\_H@Ant 1



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]-20[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	10.84	<limit	pass
11B	L	2412	Ant 2	9.95	<limit	pass
11B	M	2437	Ant 1	11.23	<limit	pass
11B	M	2437	Ant 2	10.78	<limit	pass
11B	H	2462	Ant 1	10.65	<limit	pass
11B	H	2462	Ant 2	10.12	<limit	pass
11G	L	2412	Ant 1	5.83	<limit	pass
11G	L	2412	Ant 2	2.41	<limit	pass
11G	M	2437	Ant 1	4.26	<limit	pass
11G	M	2437	Ant 2	3.77	<limit	pass
11G	H	2462	Ant 1	4.23	<limit	pass
11G	H	2462	Ant 2	3.72	<limit	pass
11N20	L	2412	Ant 1	6.18	<limit	pass
11N20	L	2412	Ant 2	5.71	<limit	pass
11N20	M	2437	Ant 1	7.18	<limit	pass
11N20	M	2437	Ant 2	6.86	<limit	pass
11N20	H	2462	Ant 1	7.12	<limit	pass



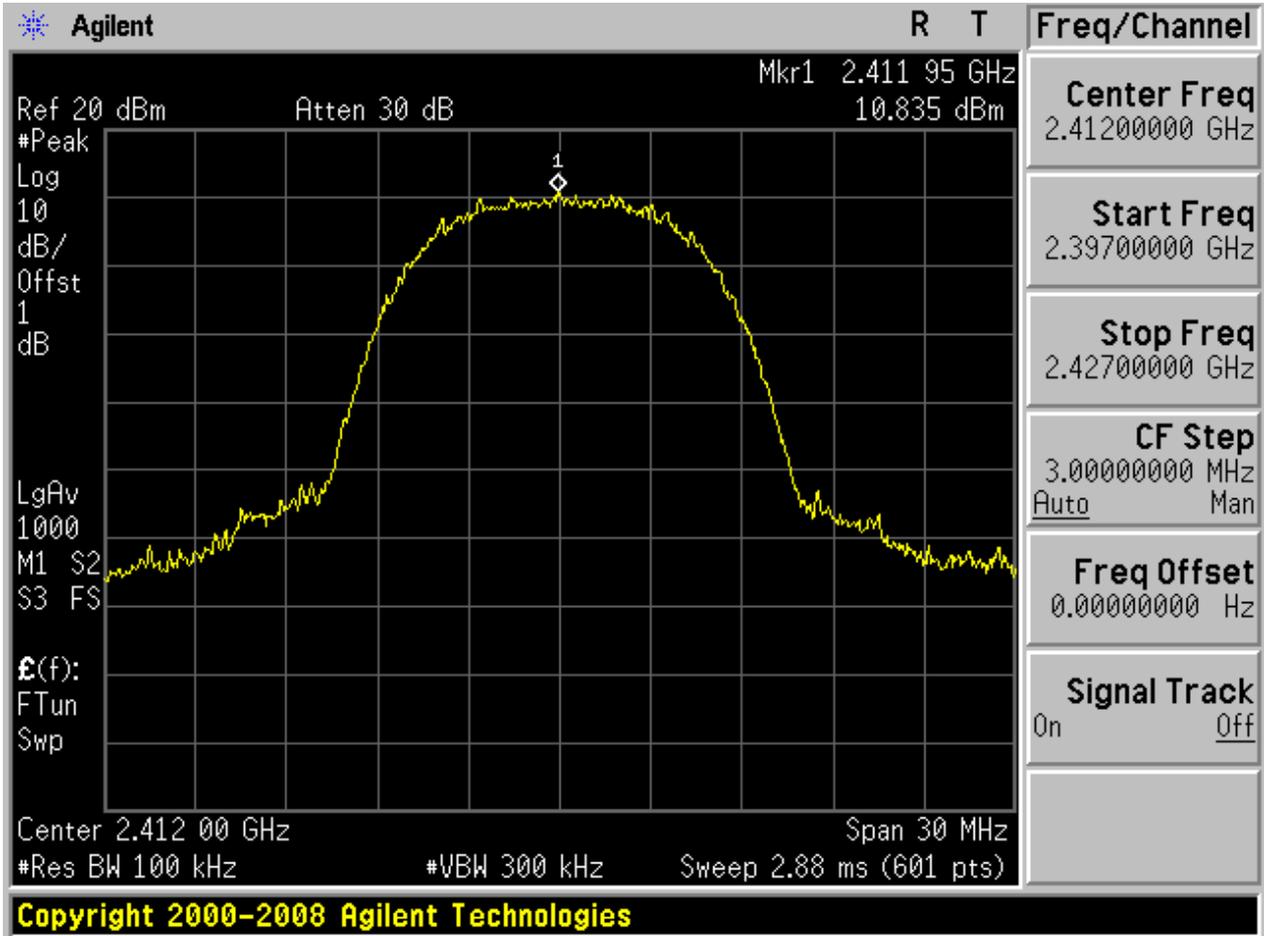
Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	H	2462	Ant 2	6.67	<limit	pass
11N20m	L	2412	Ant 1	3.98	<limit	pass
11N20m	L	2412	Ant 2	3.57	<limit	pass
11N20m	M	2437	Ant 1	5.00	<limit	pass
11N20m	M	2437	Ant 2	4.64	<limit	pass
11N20m	H	2462	Ant 1	4.67	<limit	pass
11N20m	H	2462	Ant 2	4.67	<limit	pass
11N40	L	2422	Ant 1	5.92	<limit	pass
11N40	L	2422	Ant 2	4.53	<limit	pass
11N40	M	2437	Ant 1	5.92	<limit	pass
11N40	M	2437	Ant 2	5.15	<limit	pass
11N40	H	2452	Ant 1	5.82	<limit	pass
11N40	H	2452	Ant 2	5.05	<limit	pass
11N40m	L	2422	Ant 1	3.62	<limit	pass
11N40m	L	2422	Ant 2	1.79	<limit	pass
11N40m	M	2437	Ant 1	3.86	<limit	pass
11N40m	M	2437	Ant 2	2.33	<limit	pass
11N40m	H	2452	Ant 1	3.55	<limit	pass
11N40m	H	2452	Ant 2	2.33	<limit	pass



Part II - Test Plots

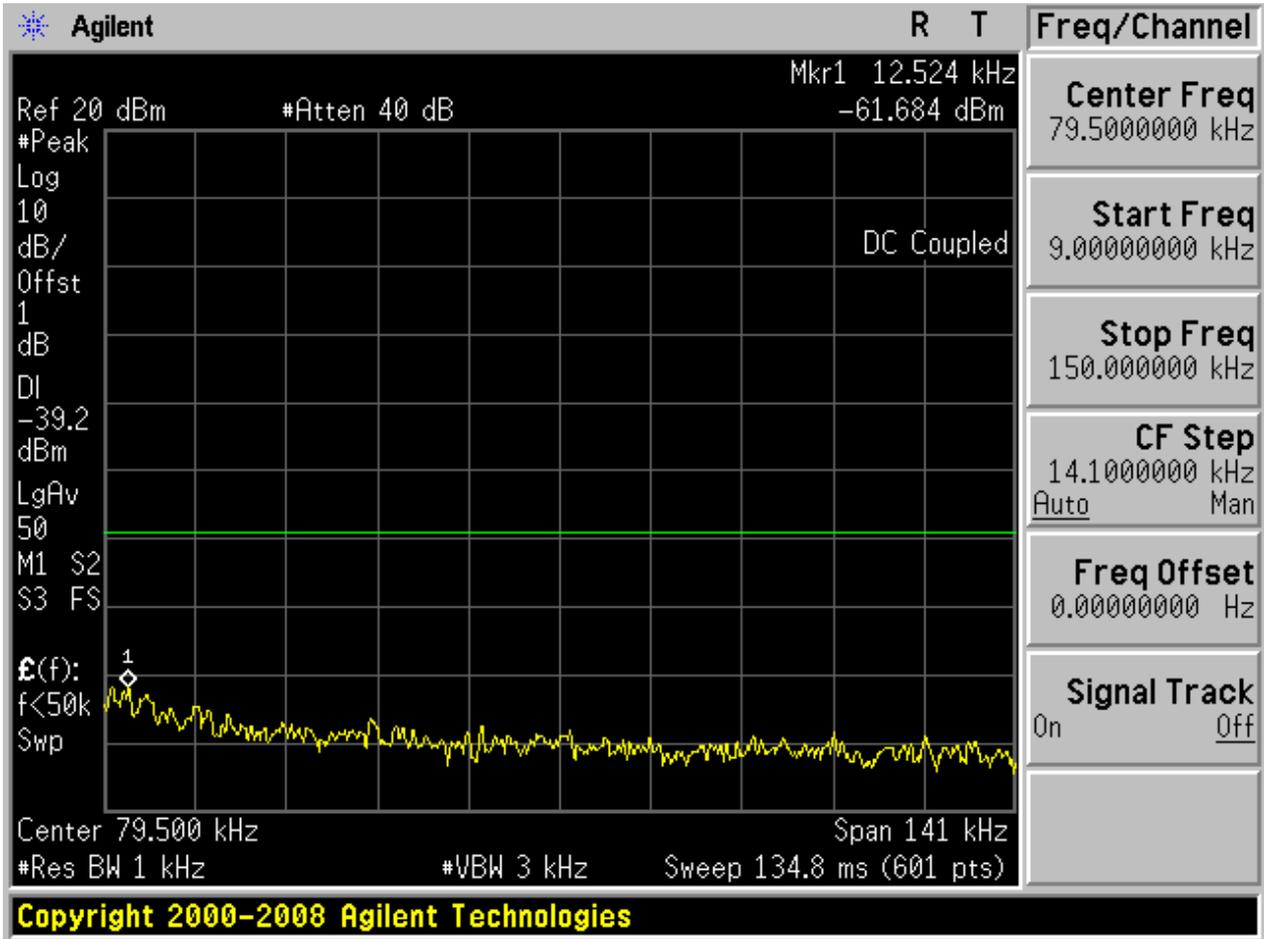
2.1 11B\_L@Ant 1

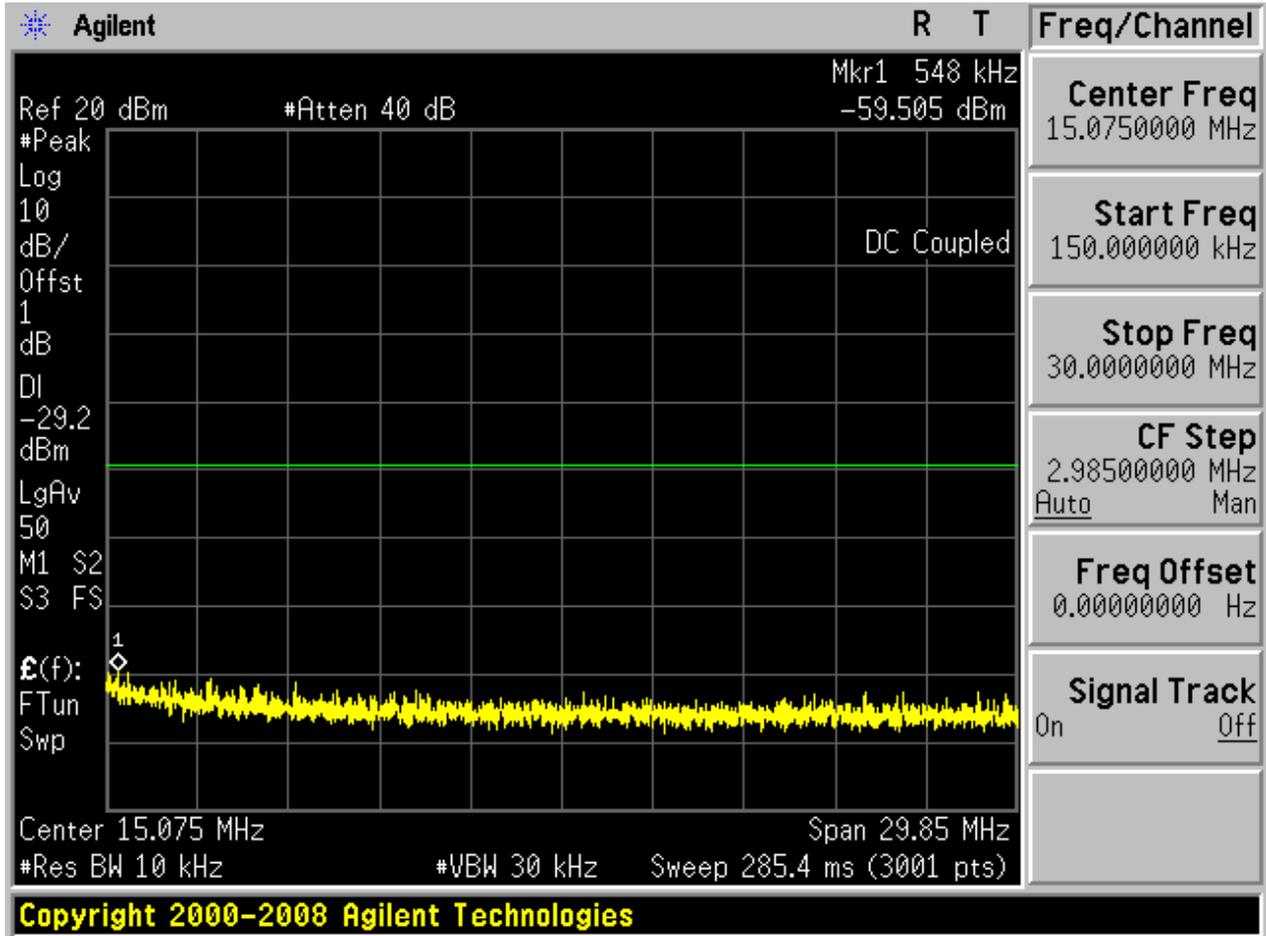
Pref:

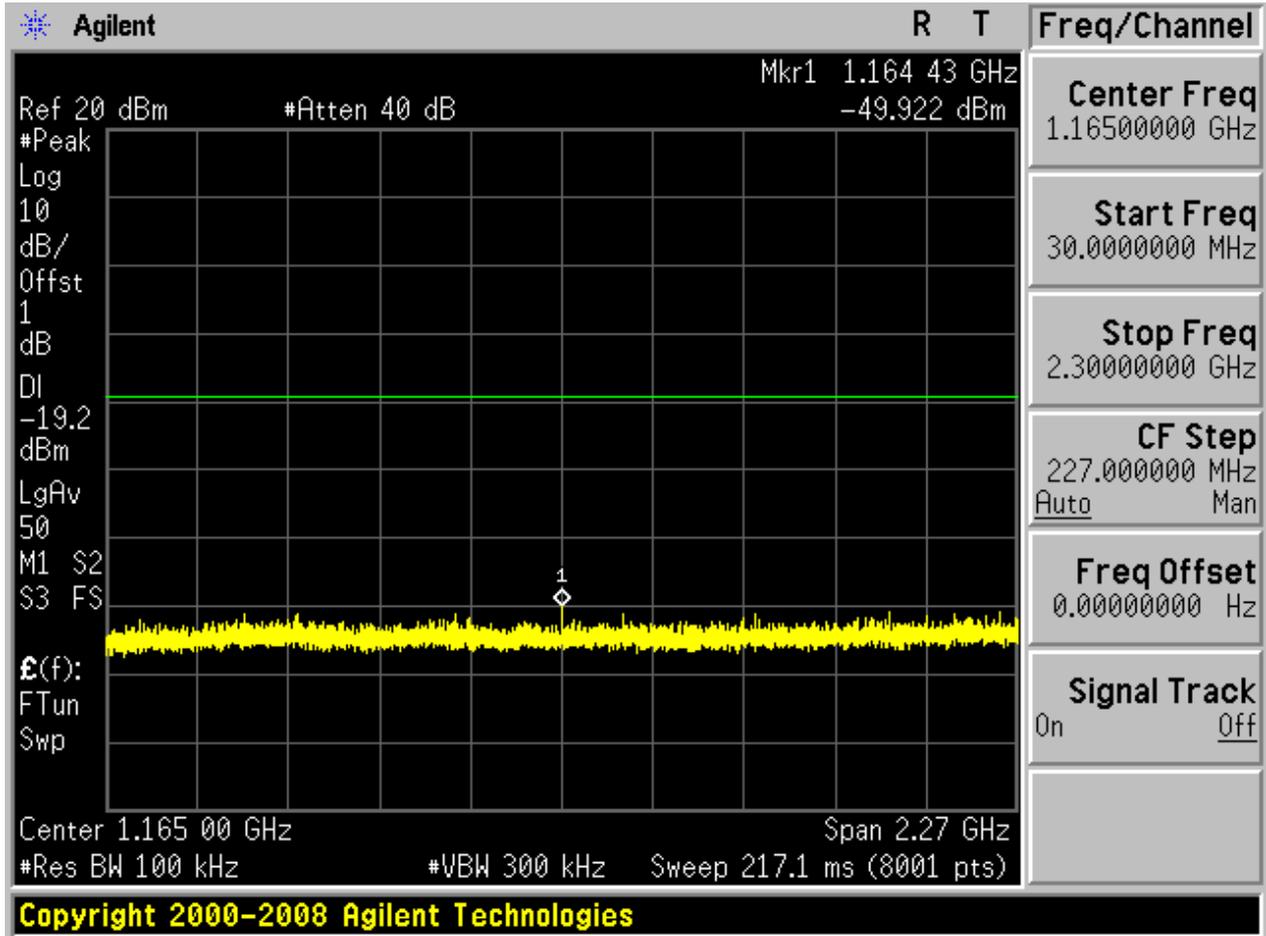


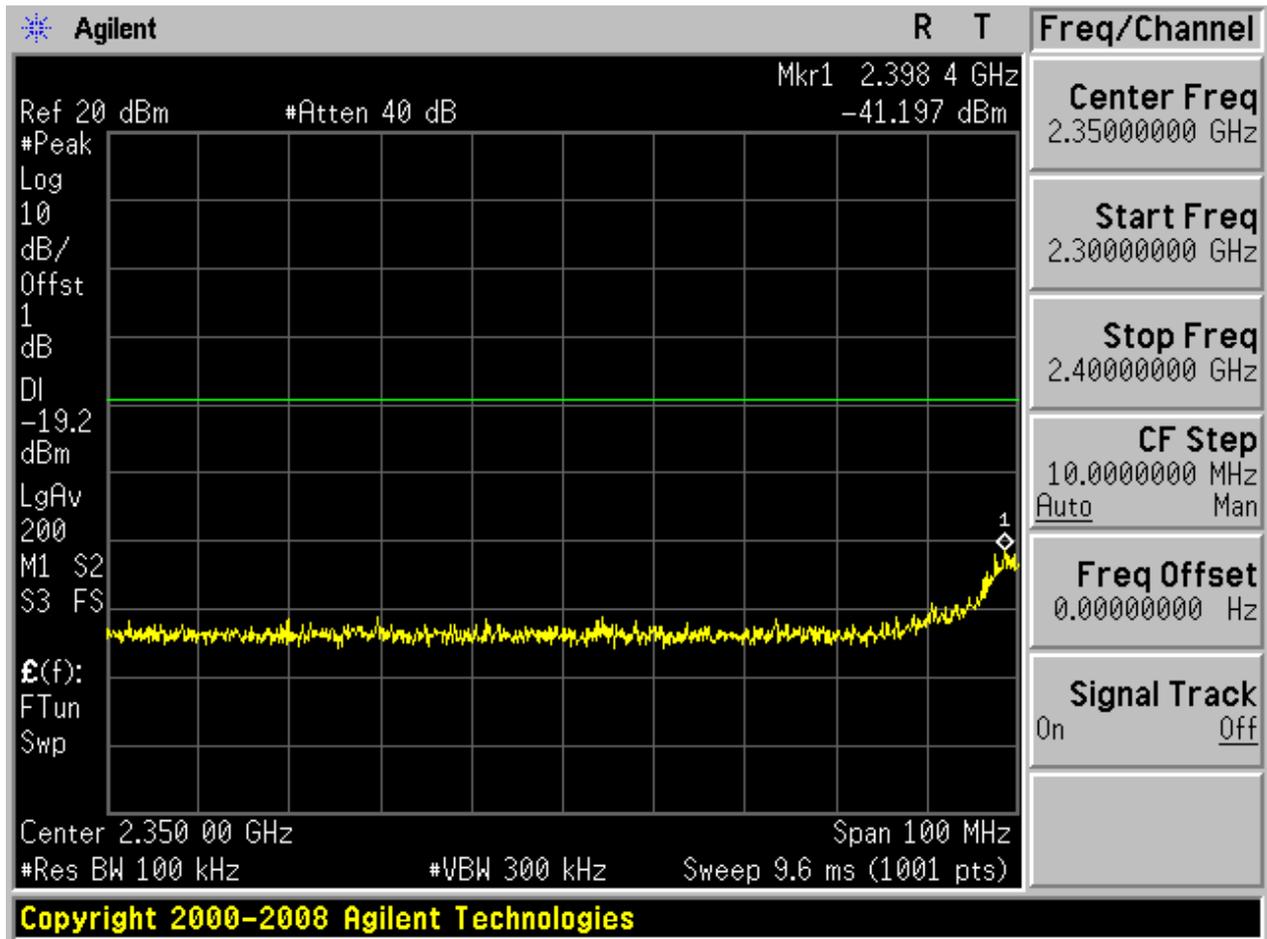


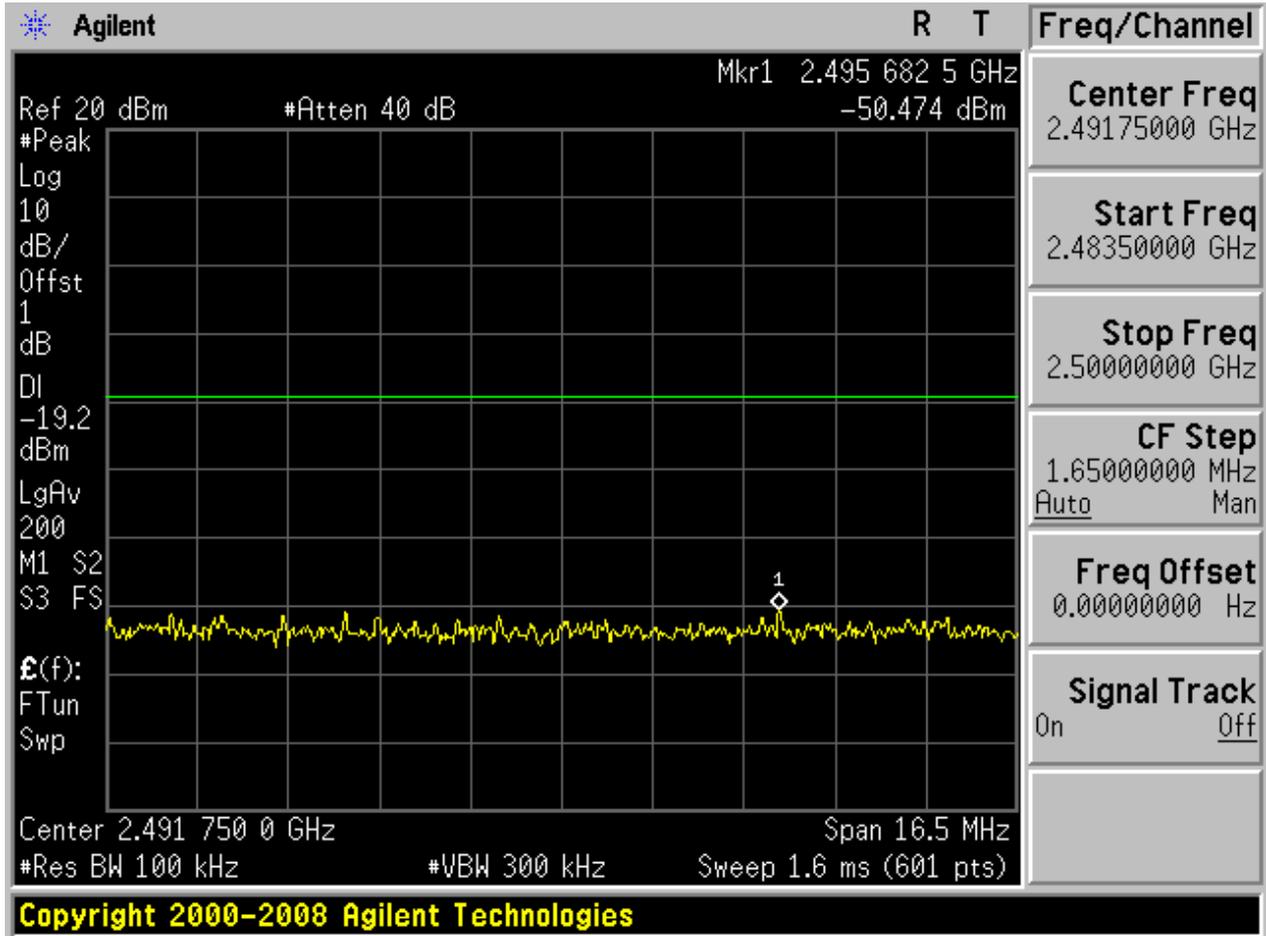
Puw:

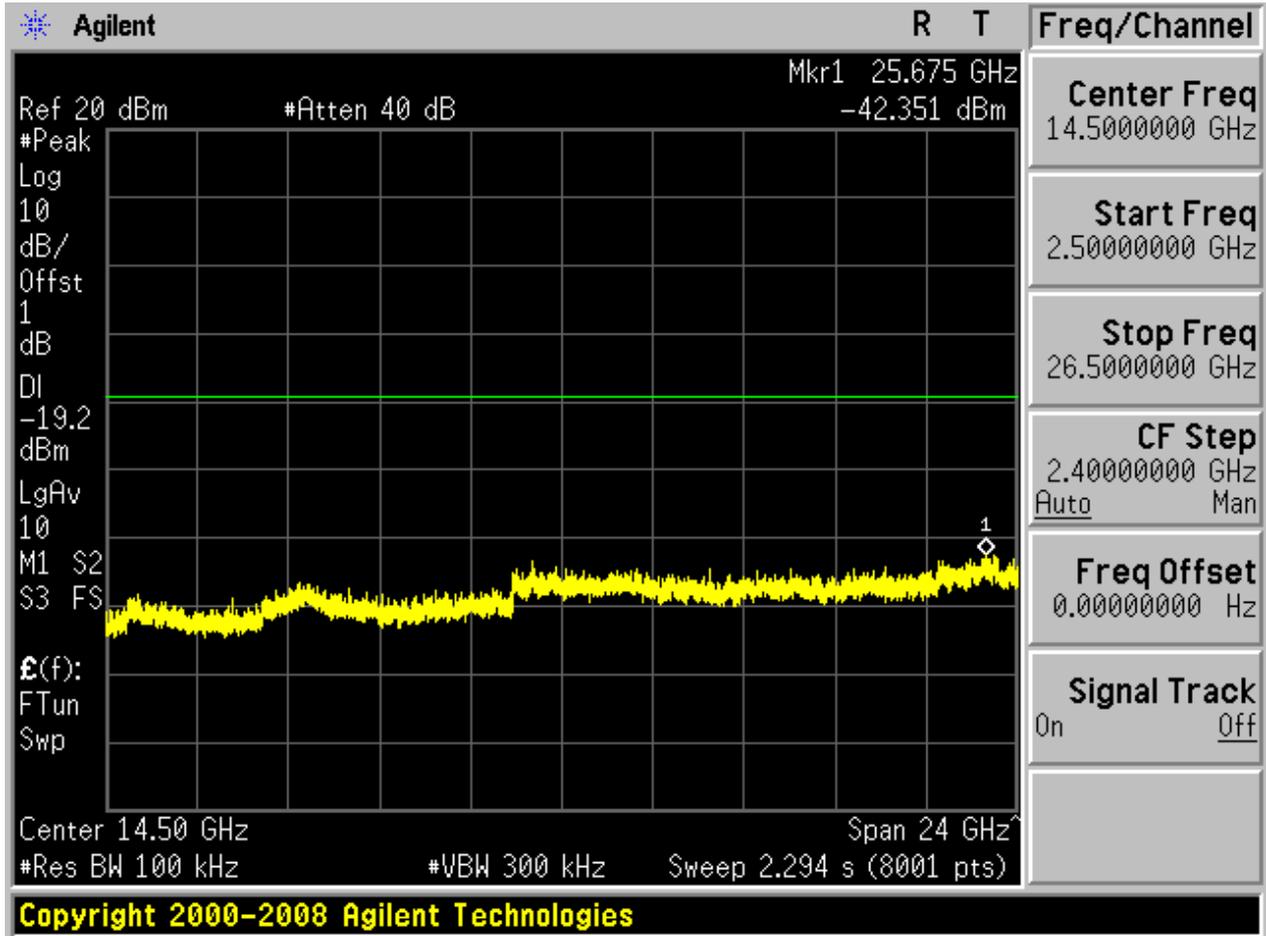








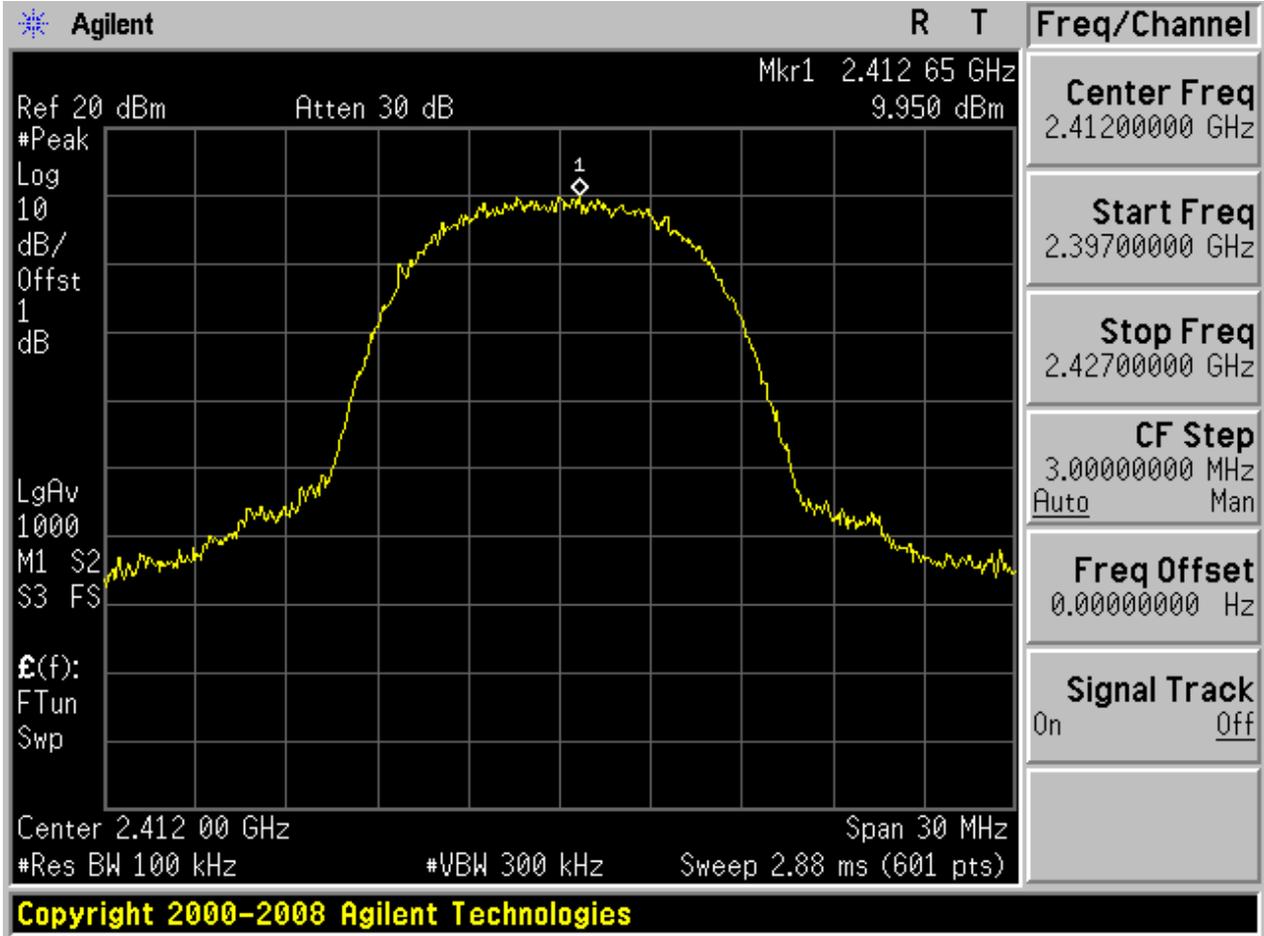






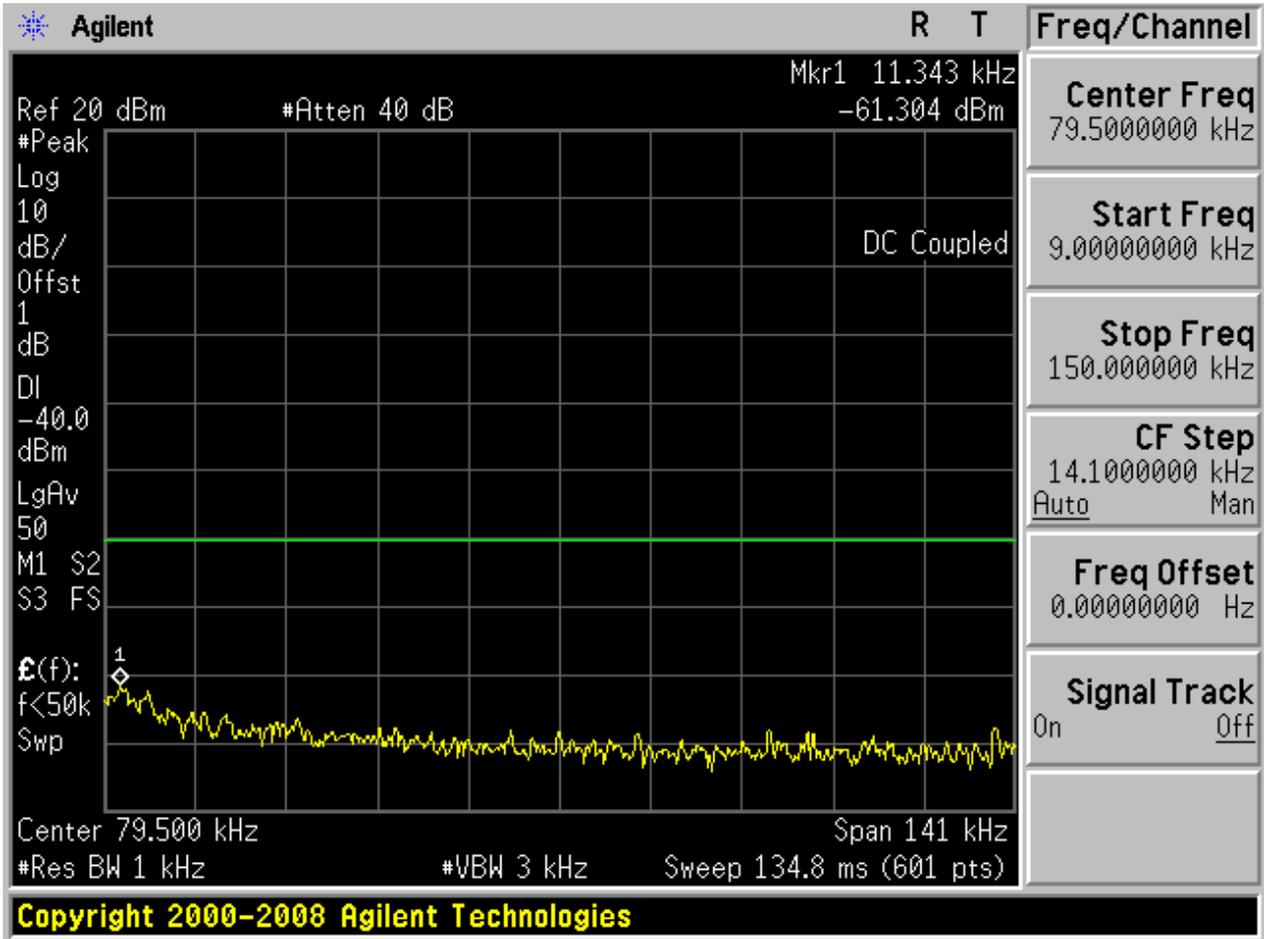
2.2 11B\_L@Ant 2

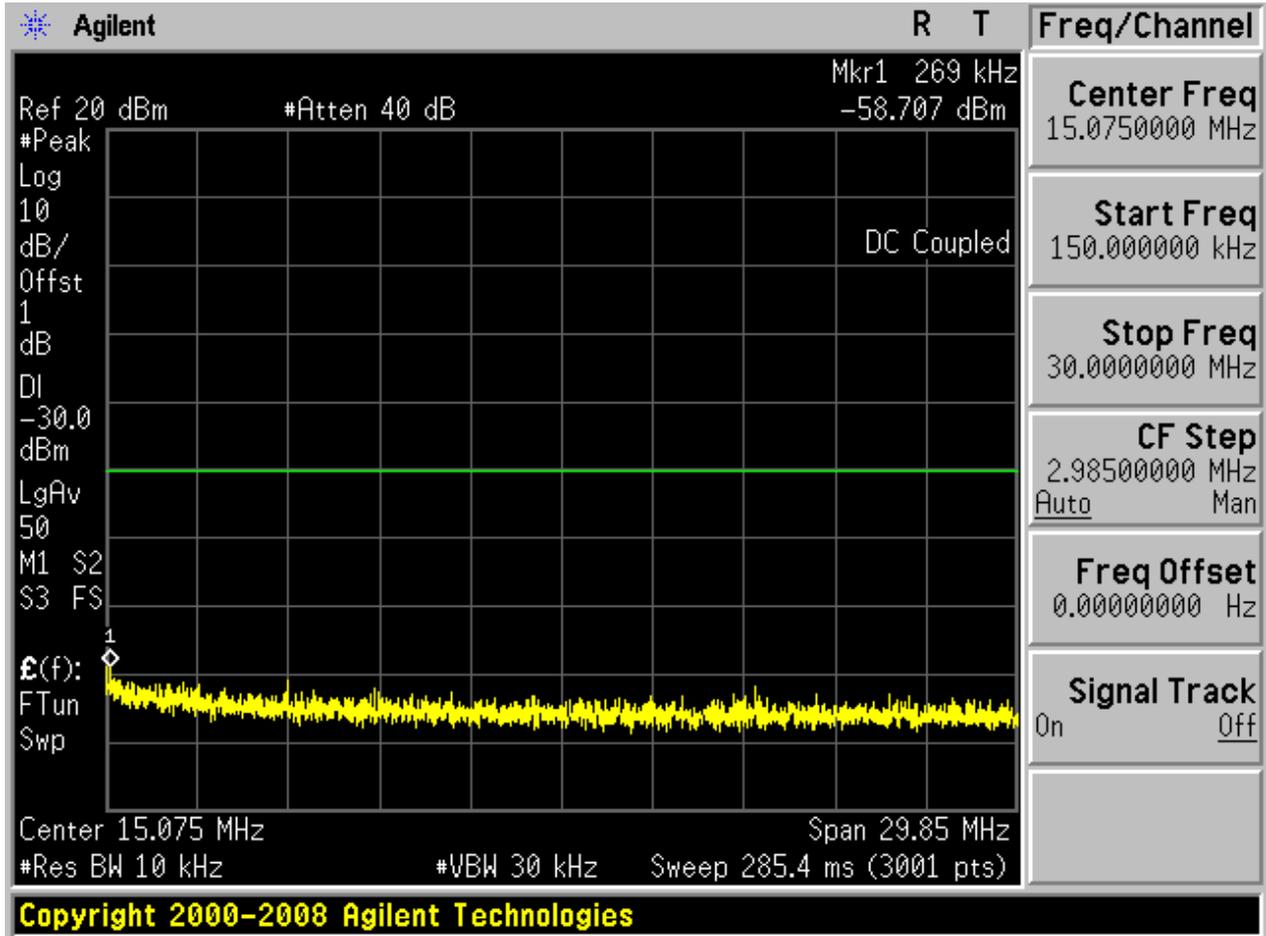
Pref:

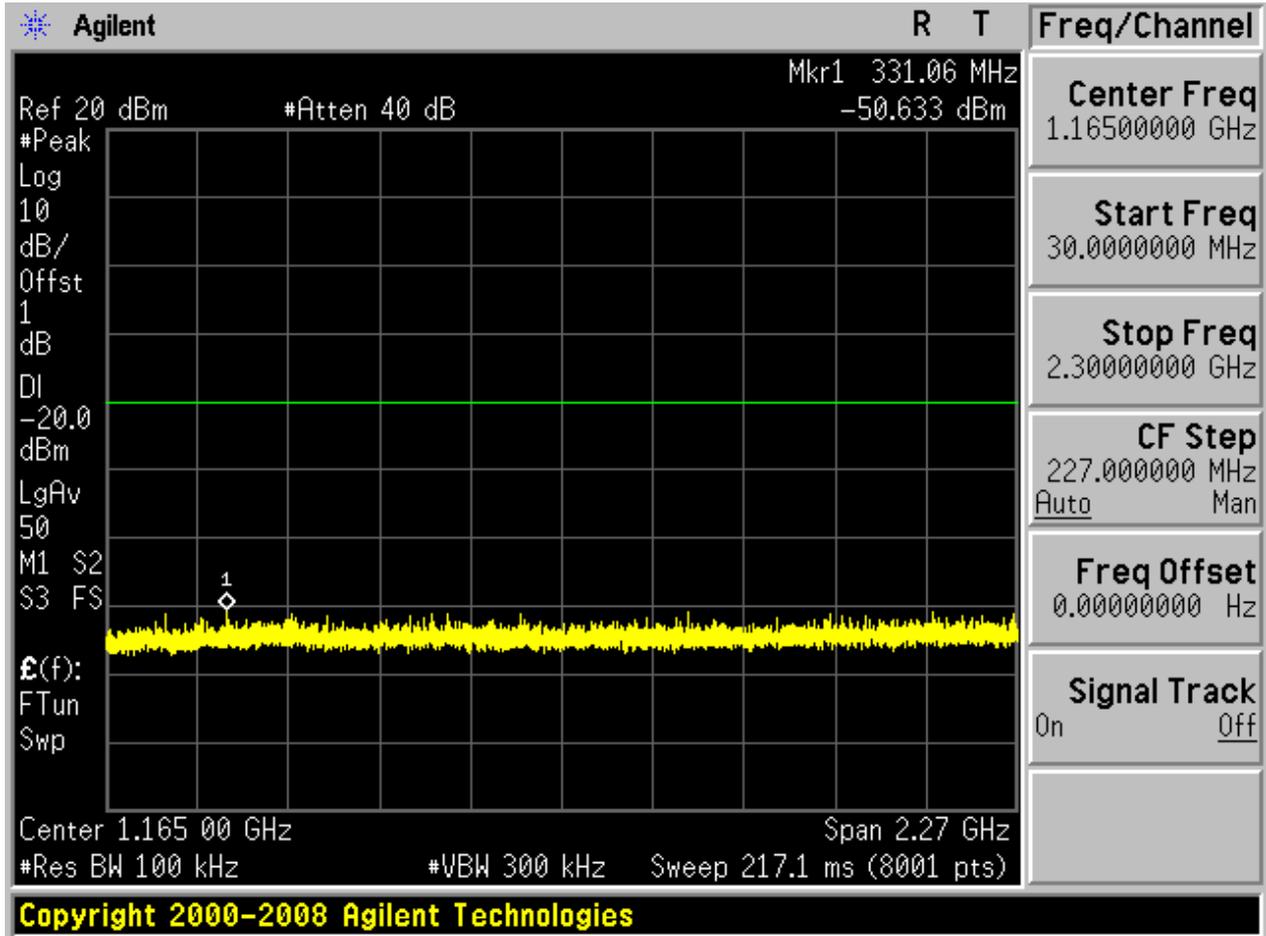


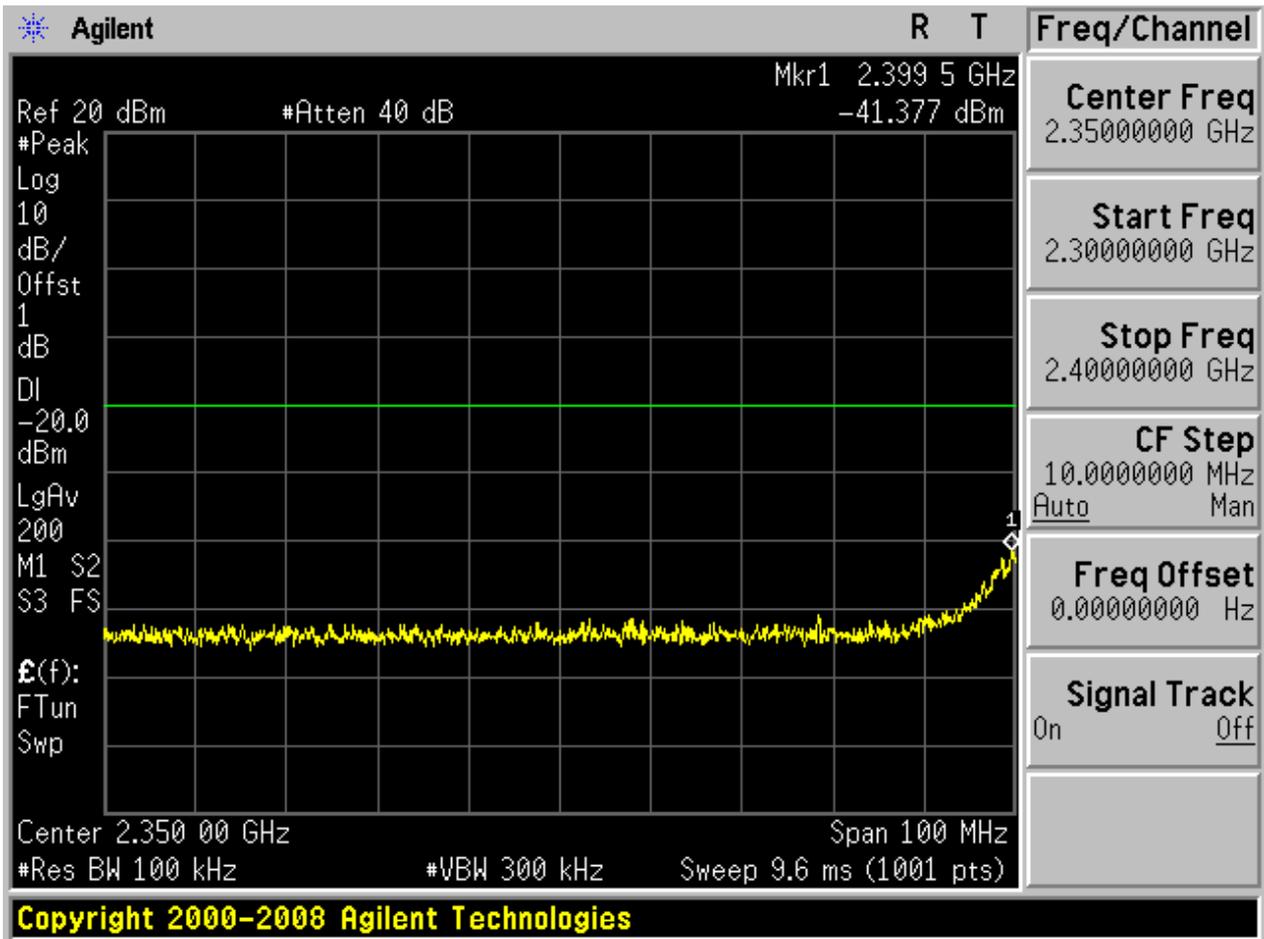


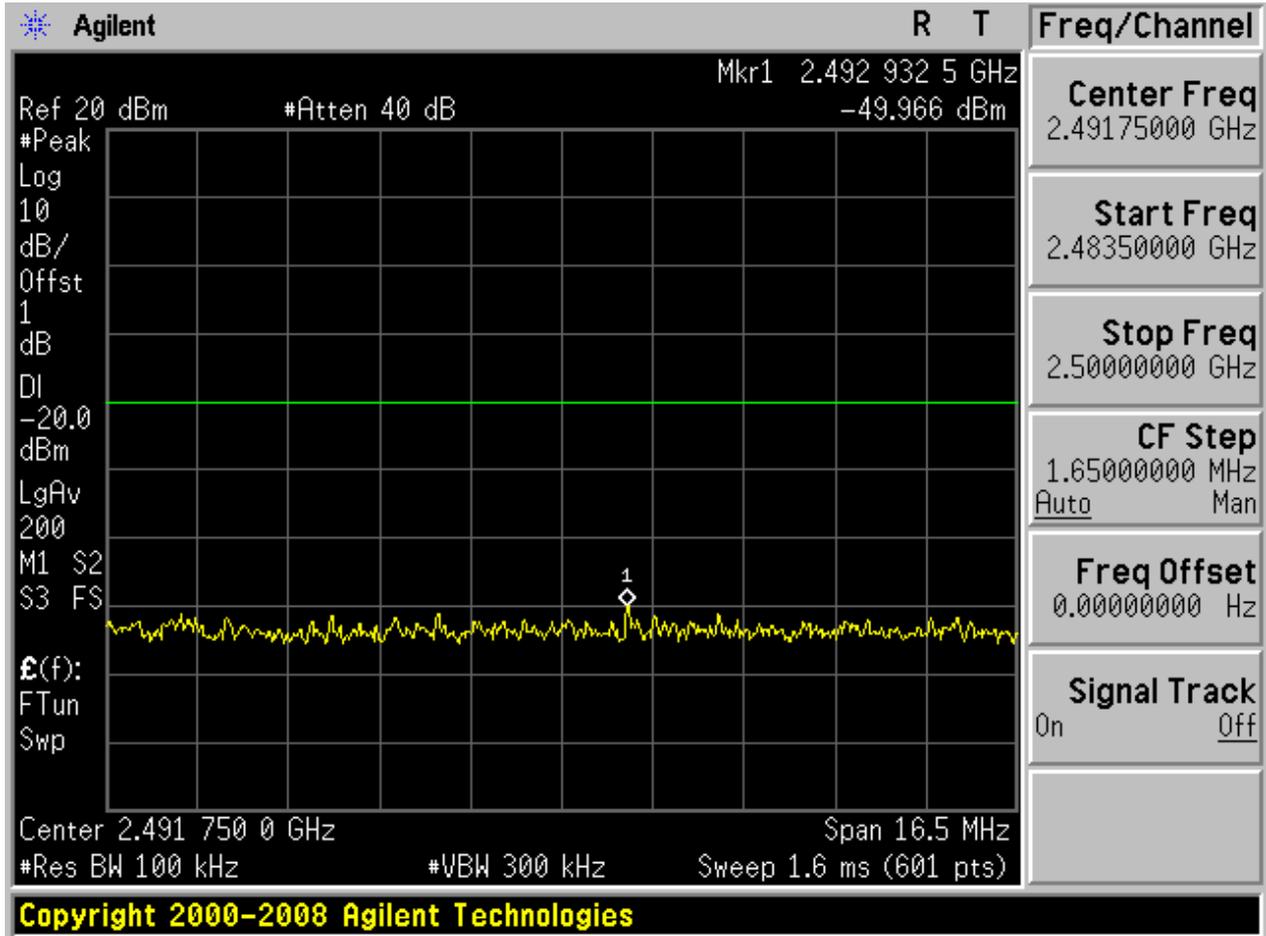
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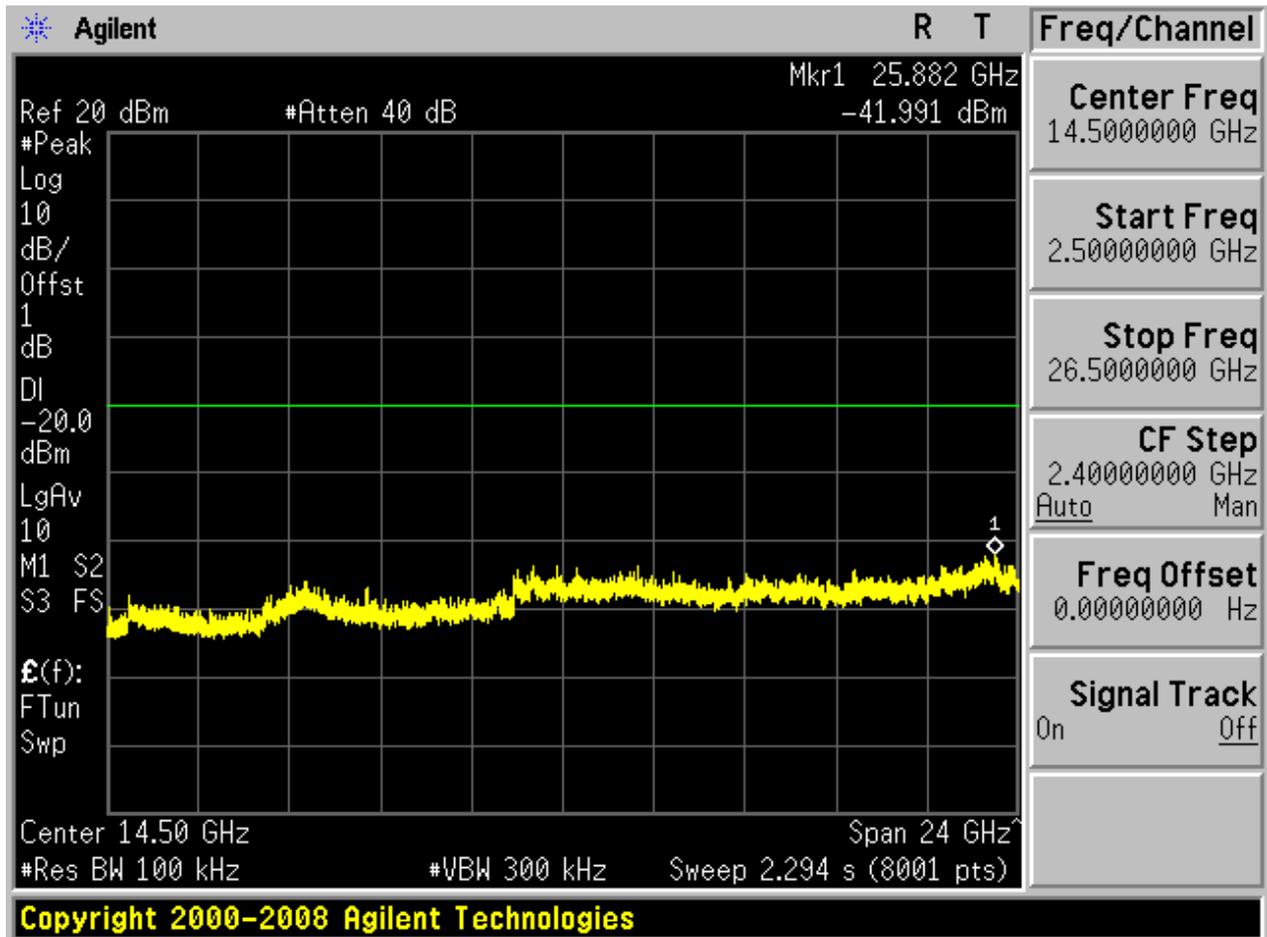








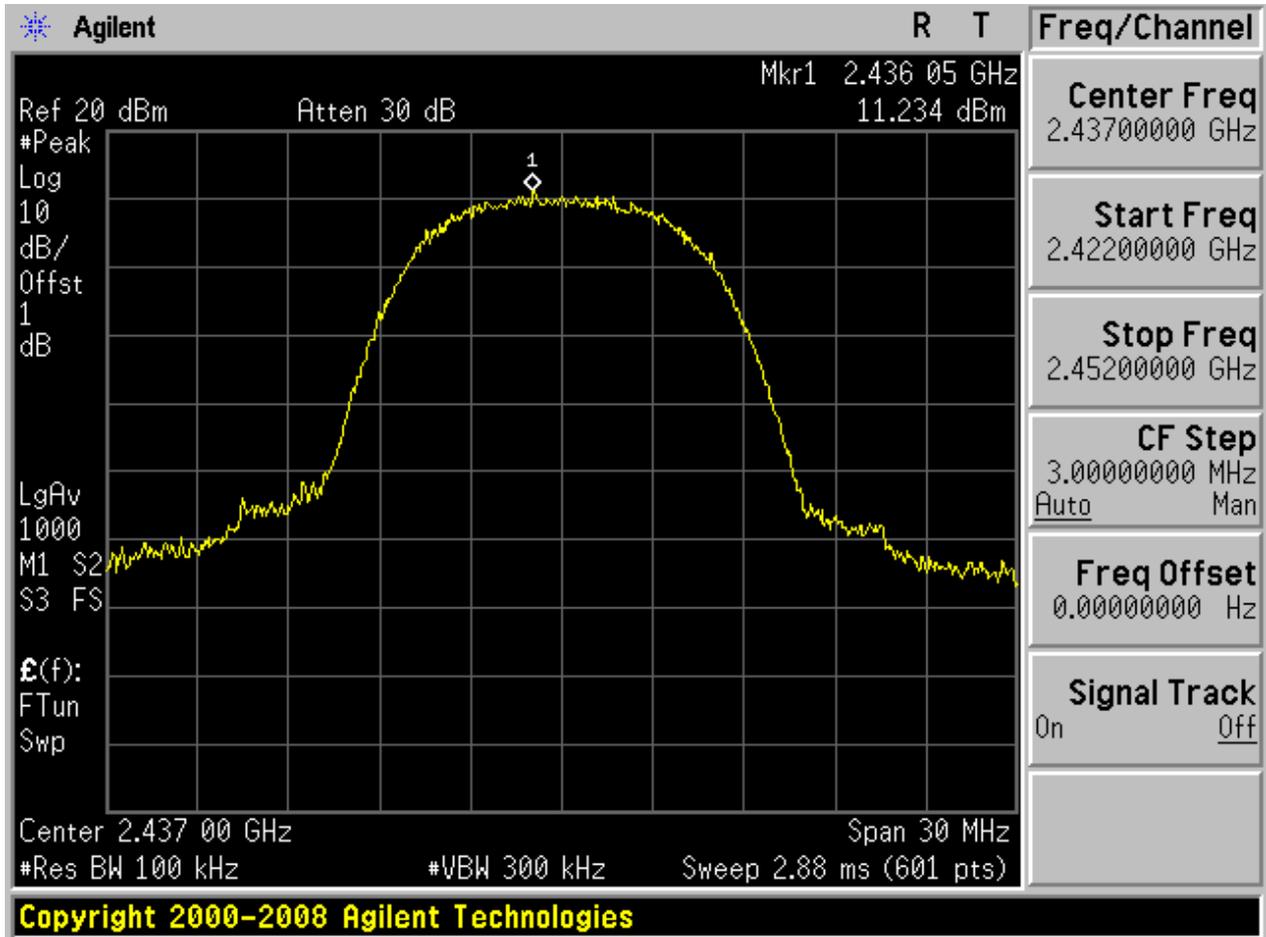




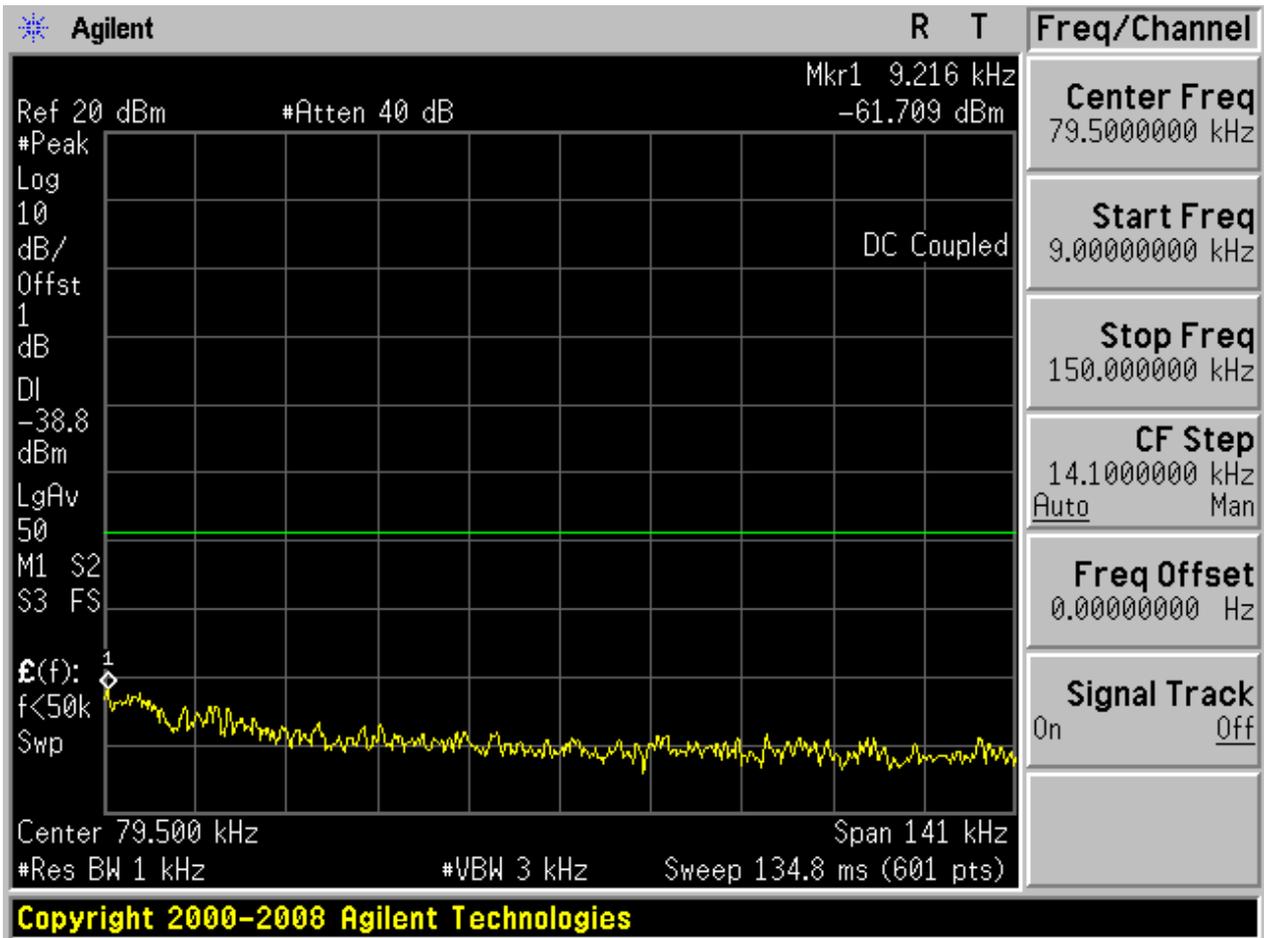


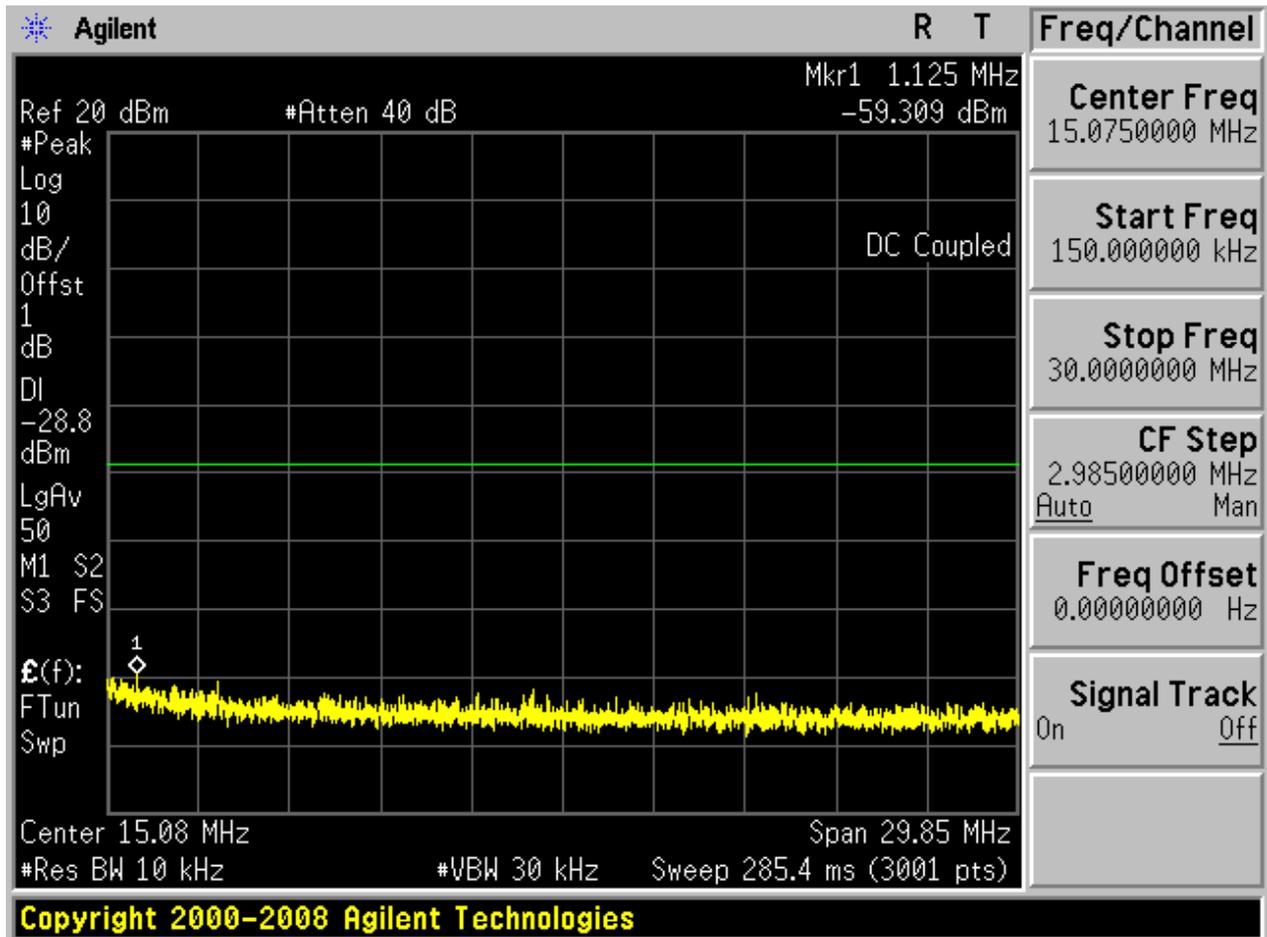
### 2.3 11B\_M@Ant 1

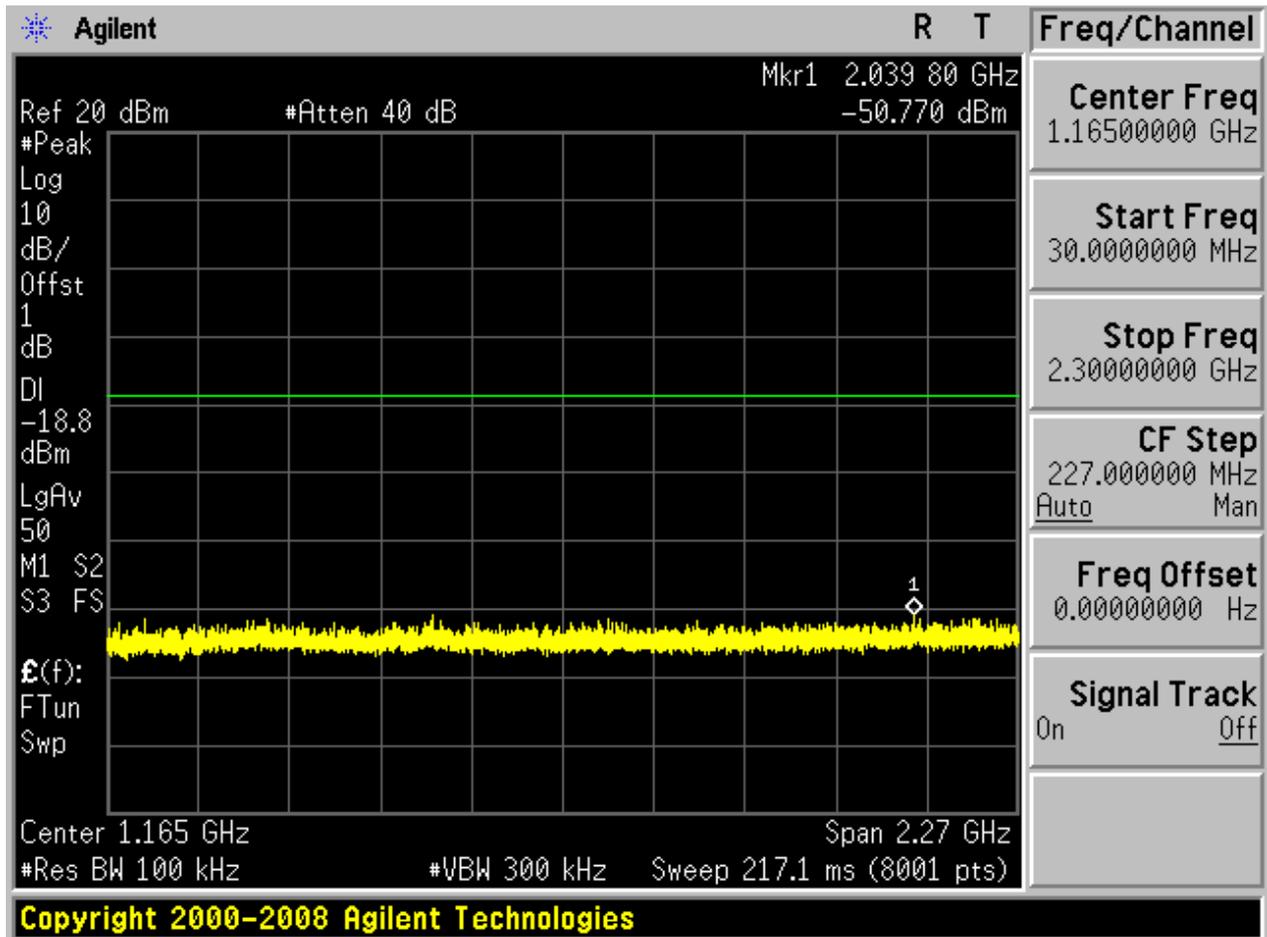
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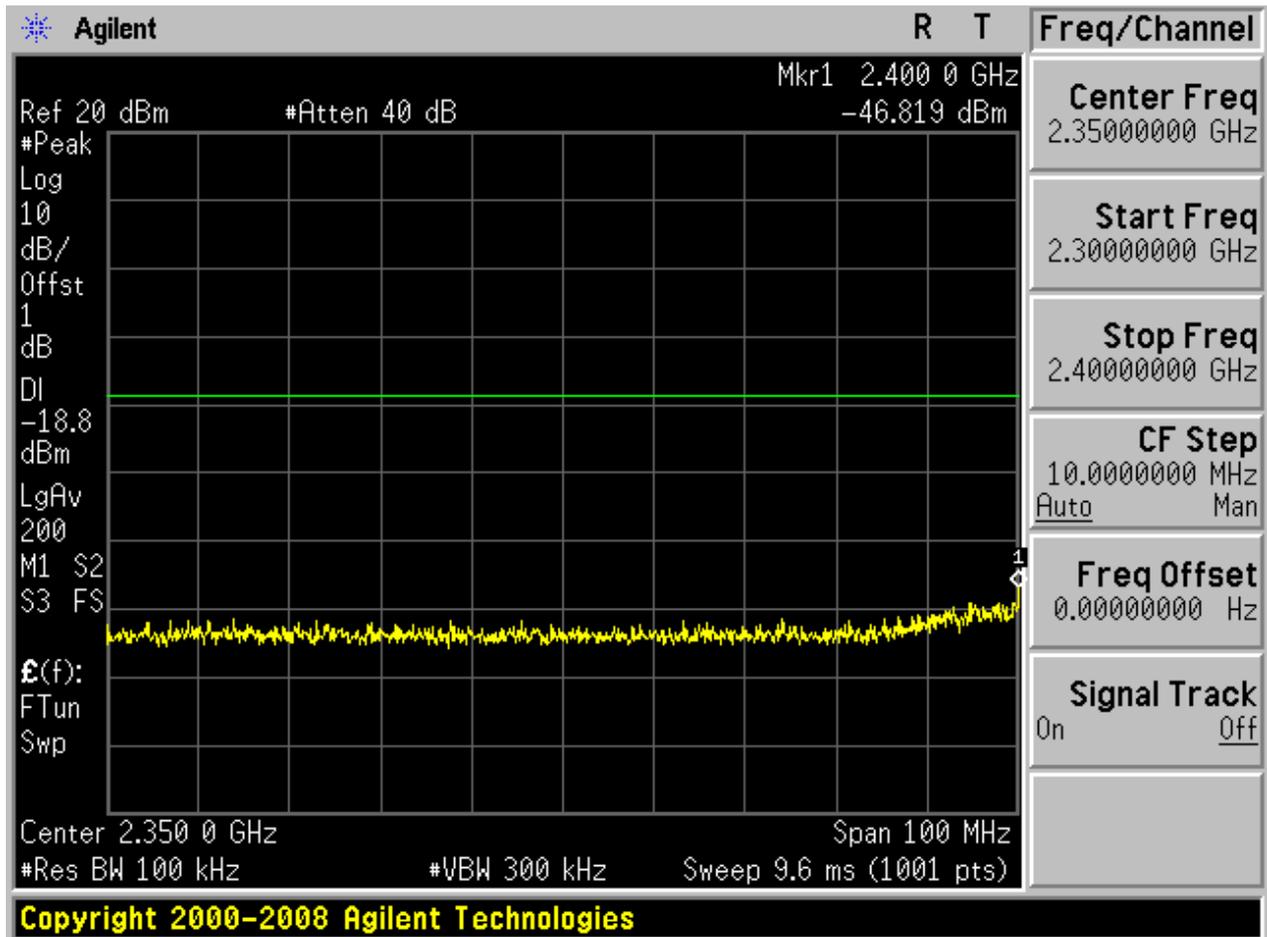


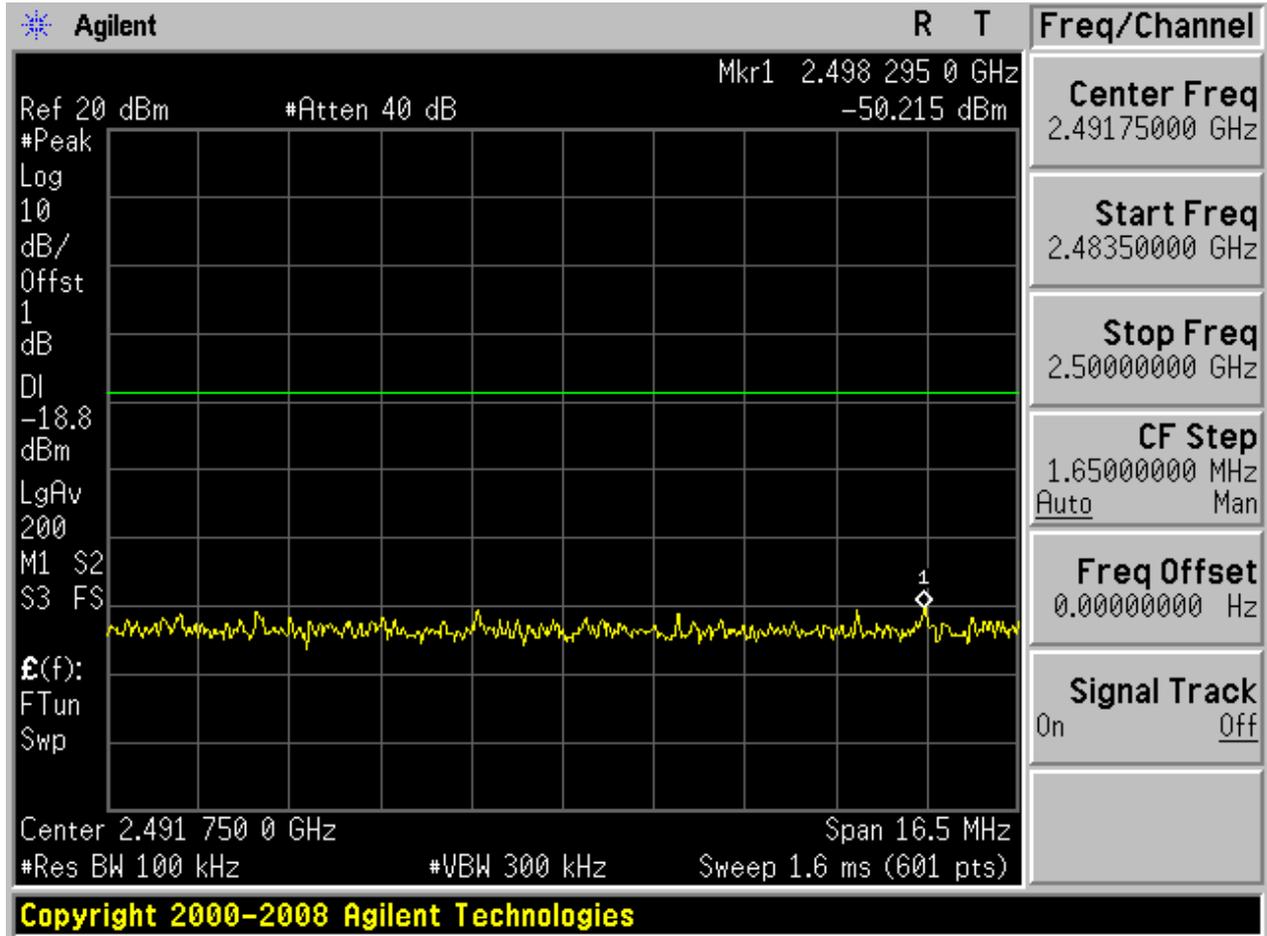
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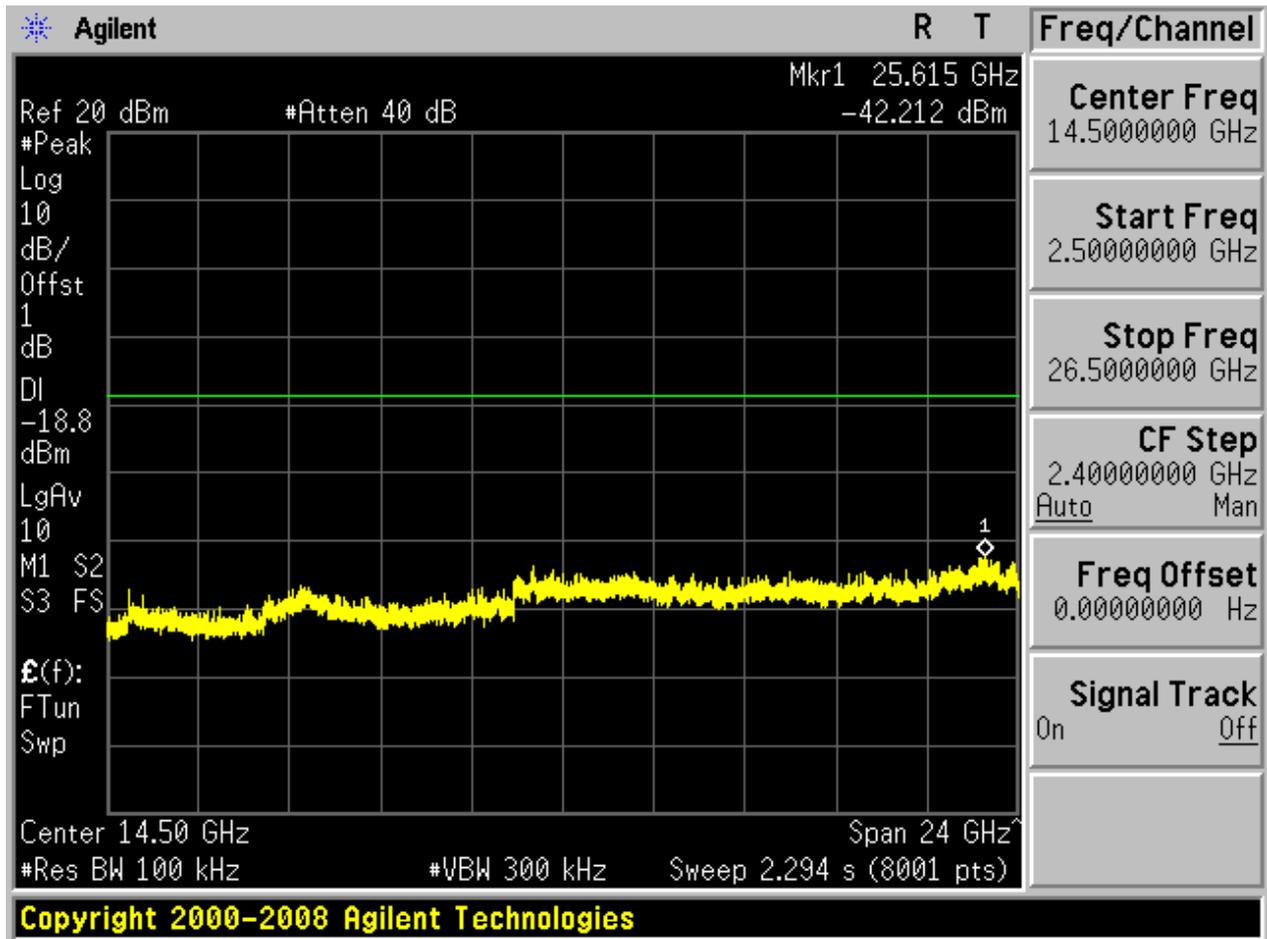








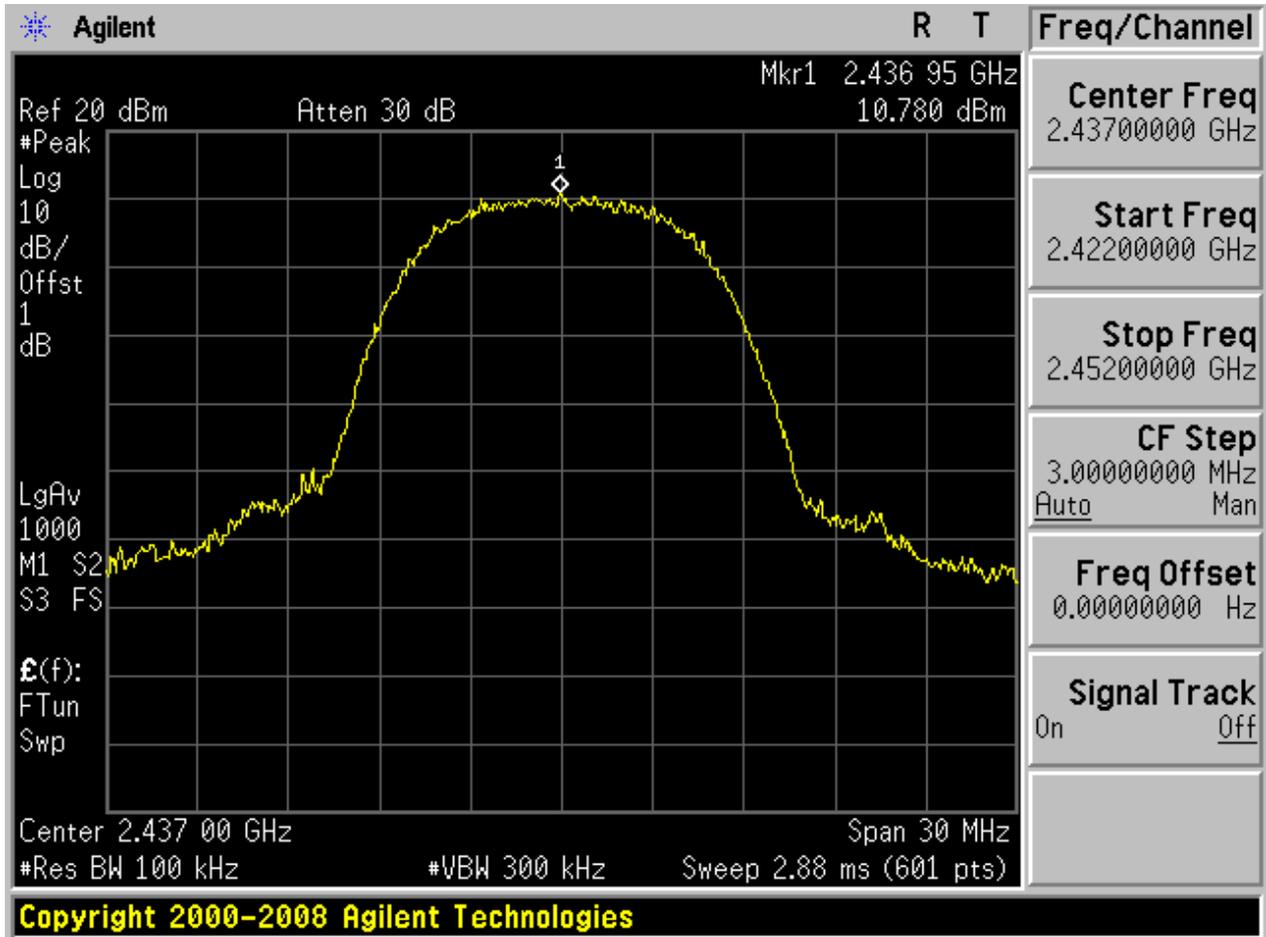




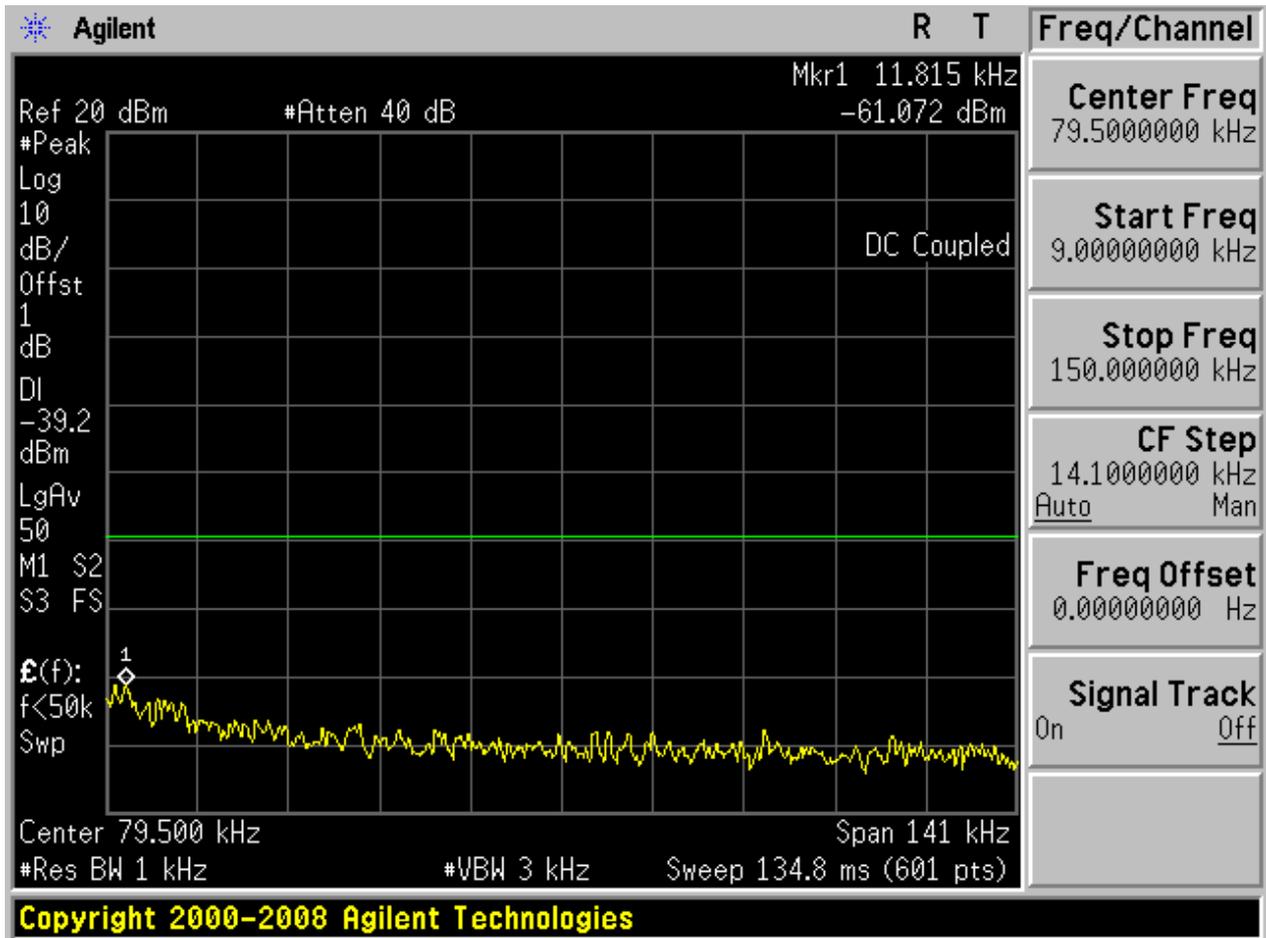


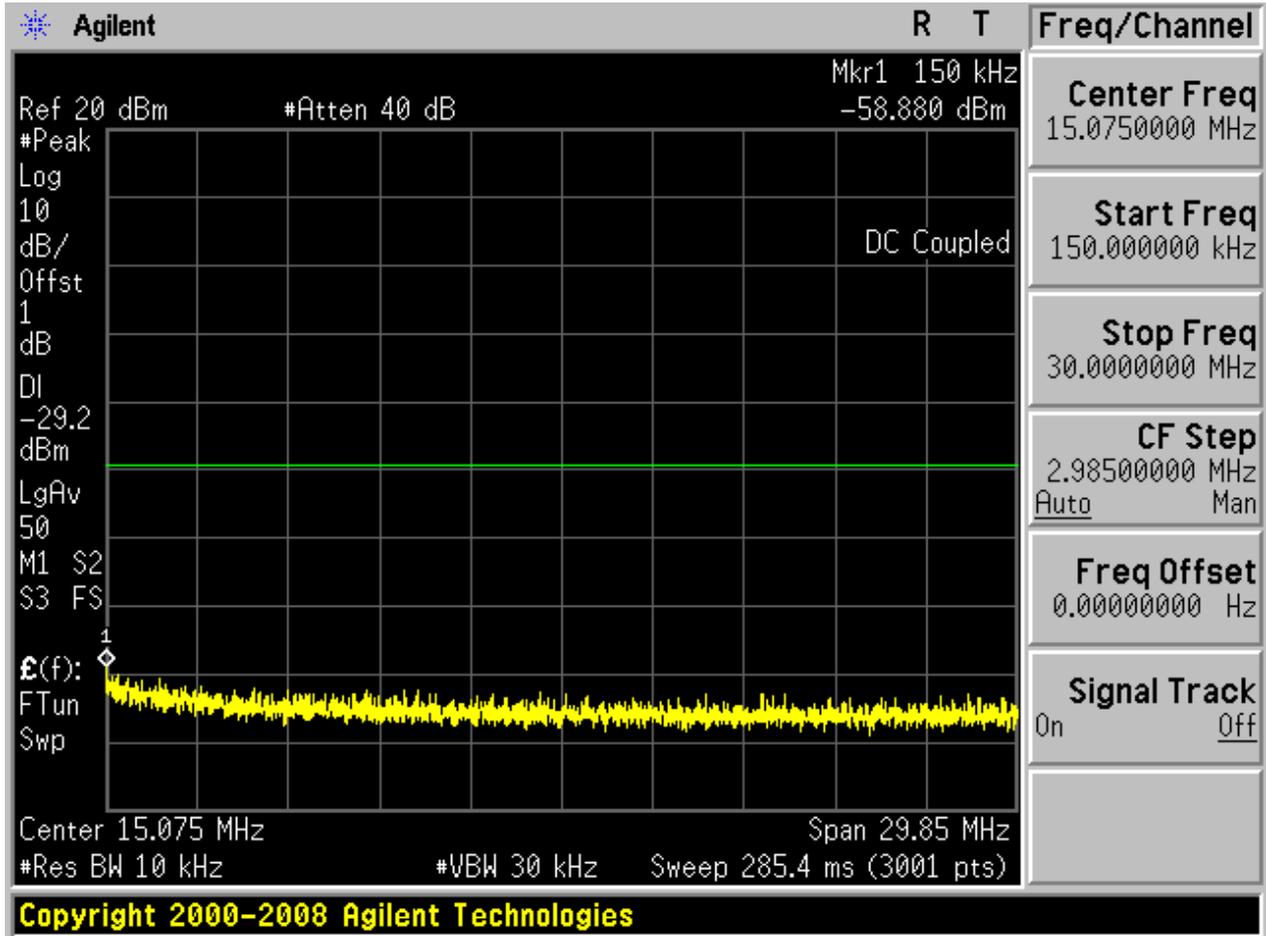
### 2.4 11B\_M@Ant 2

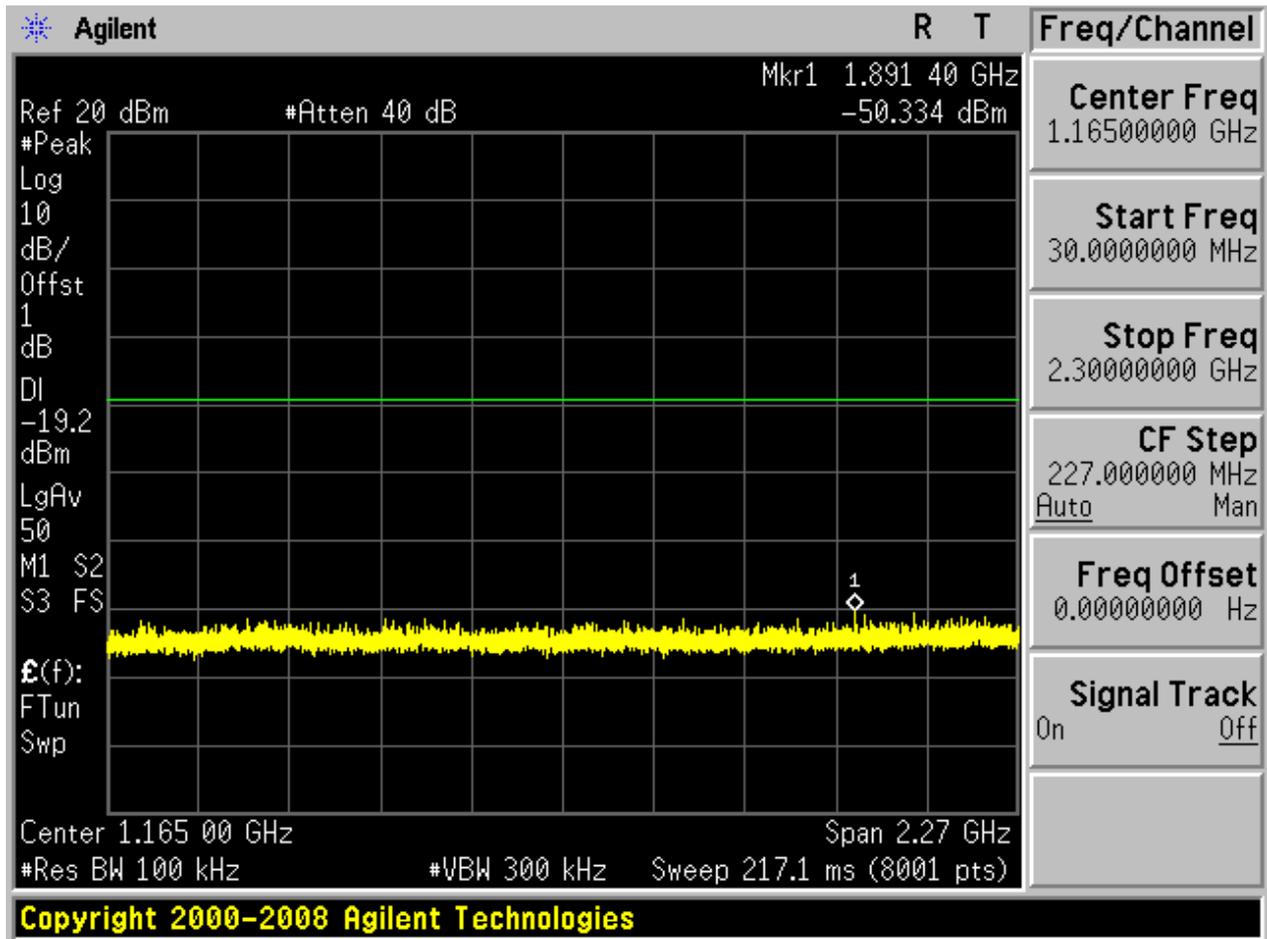
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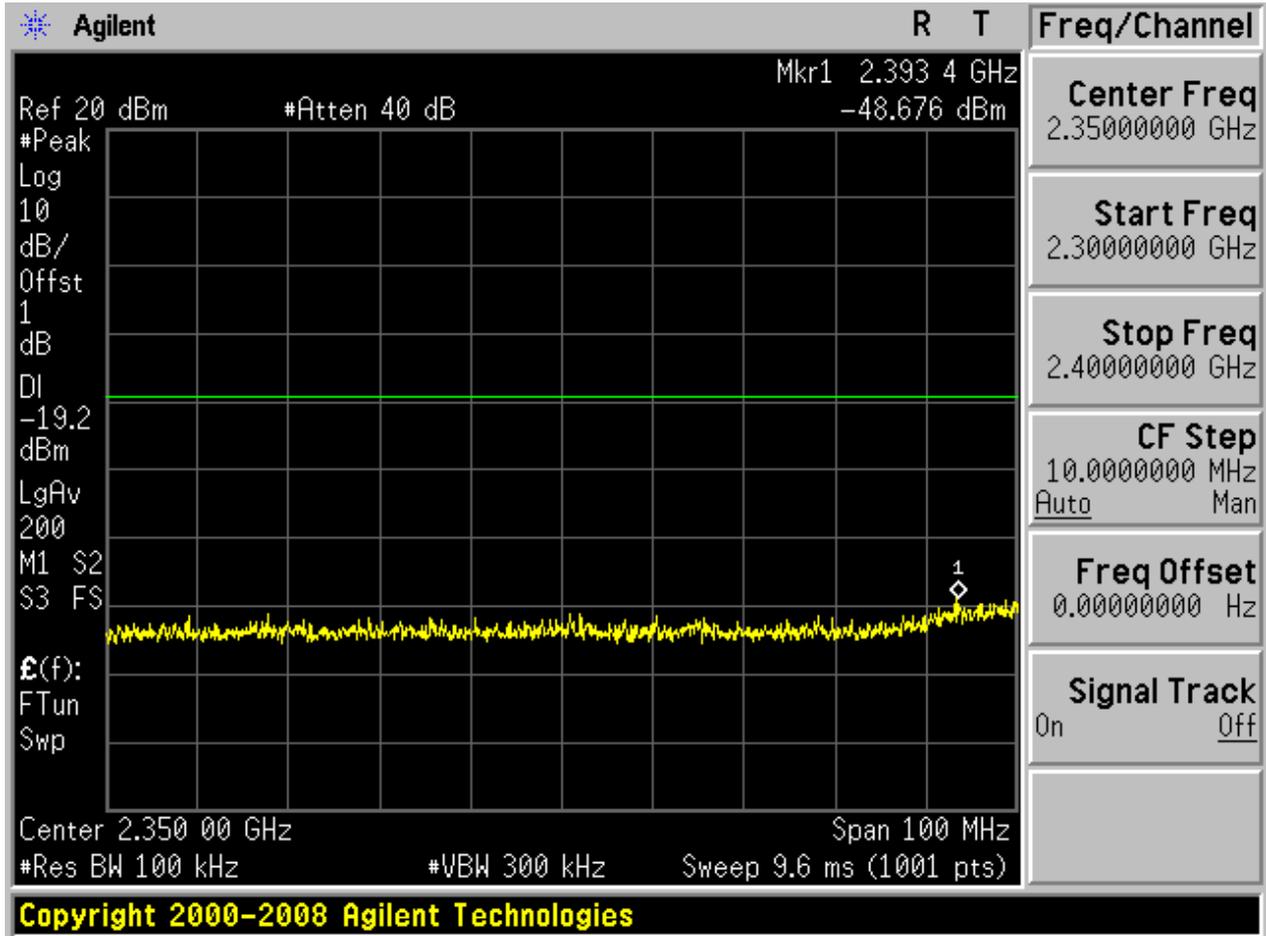


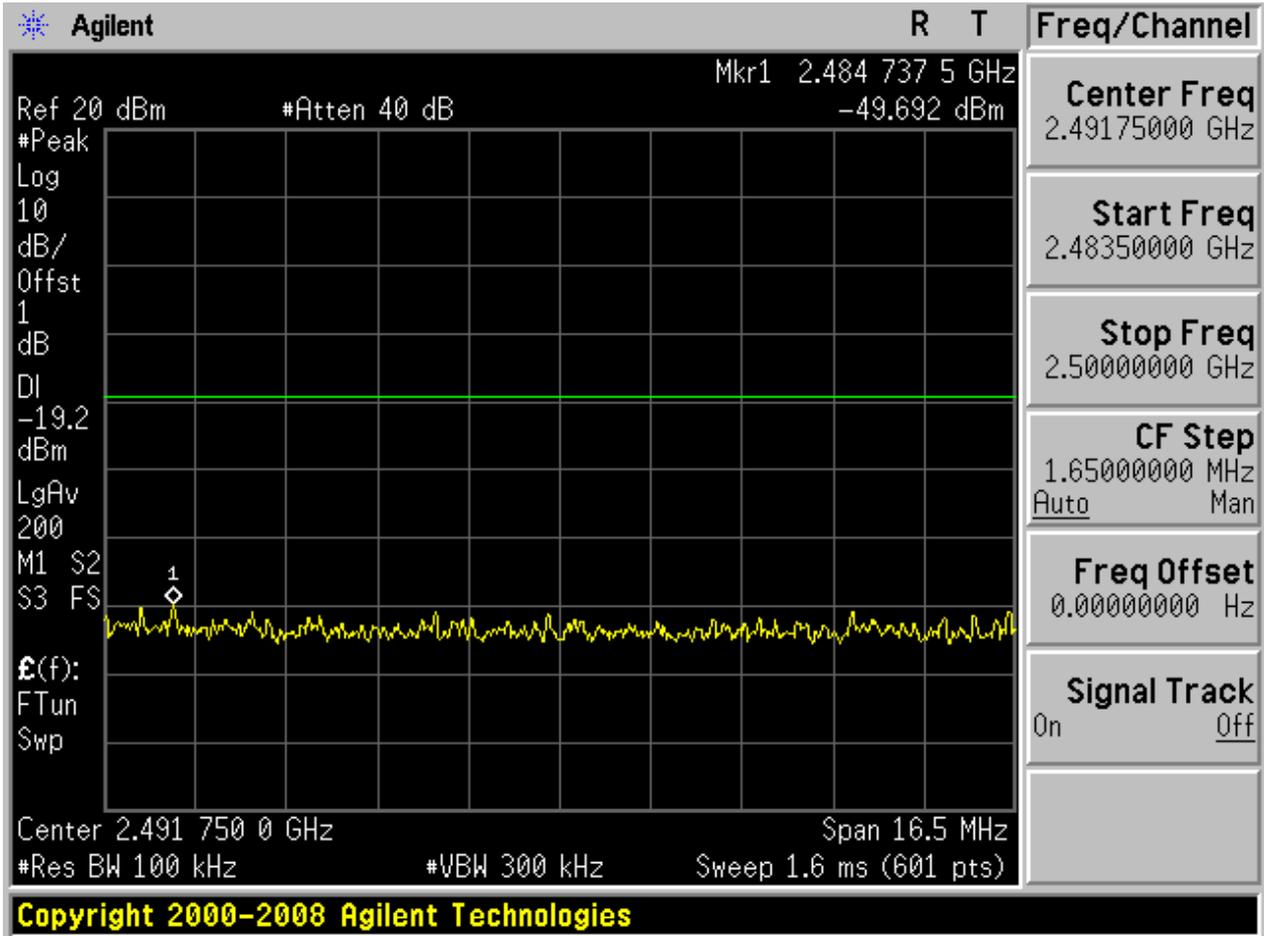
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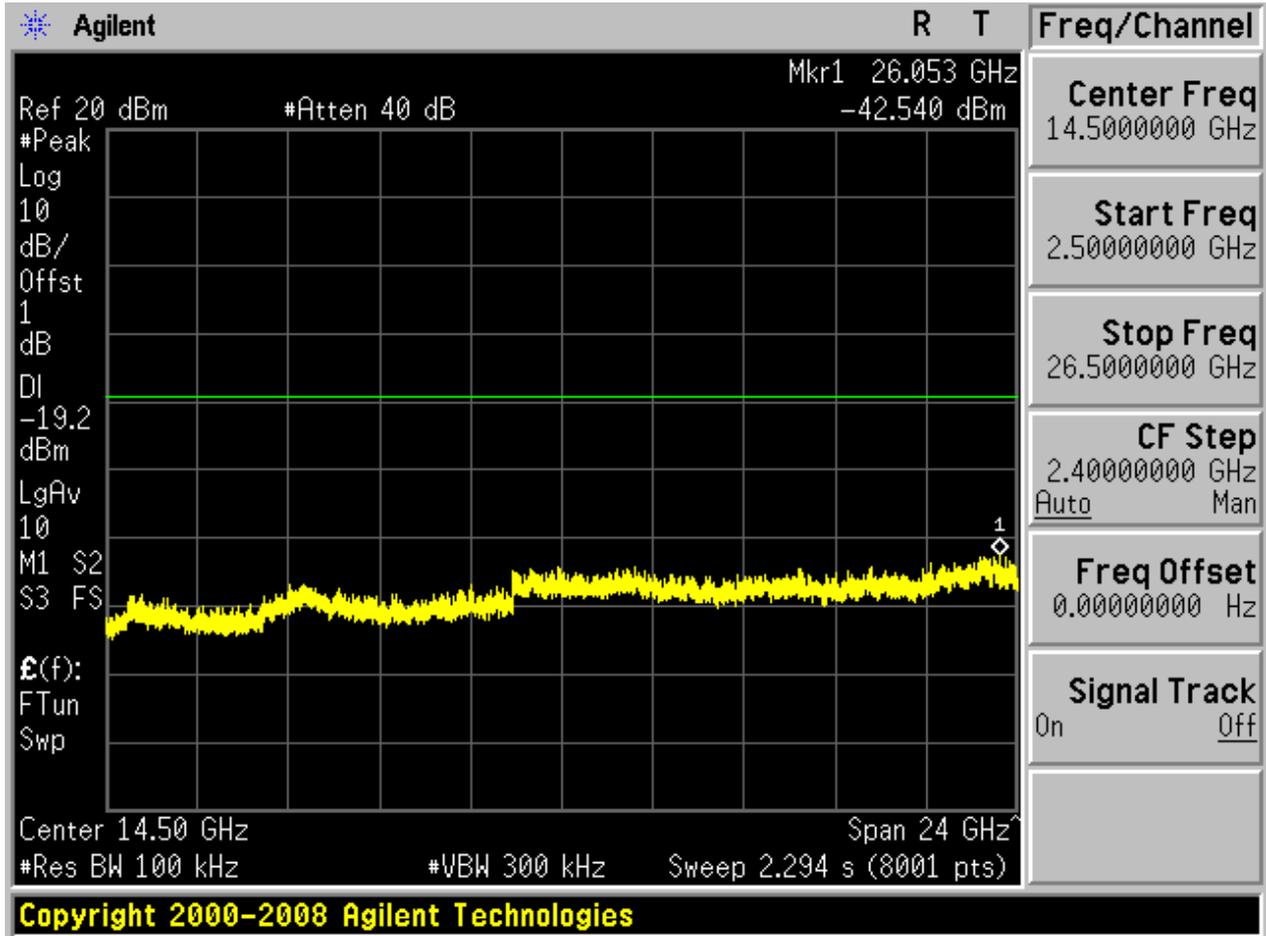








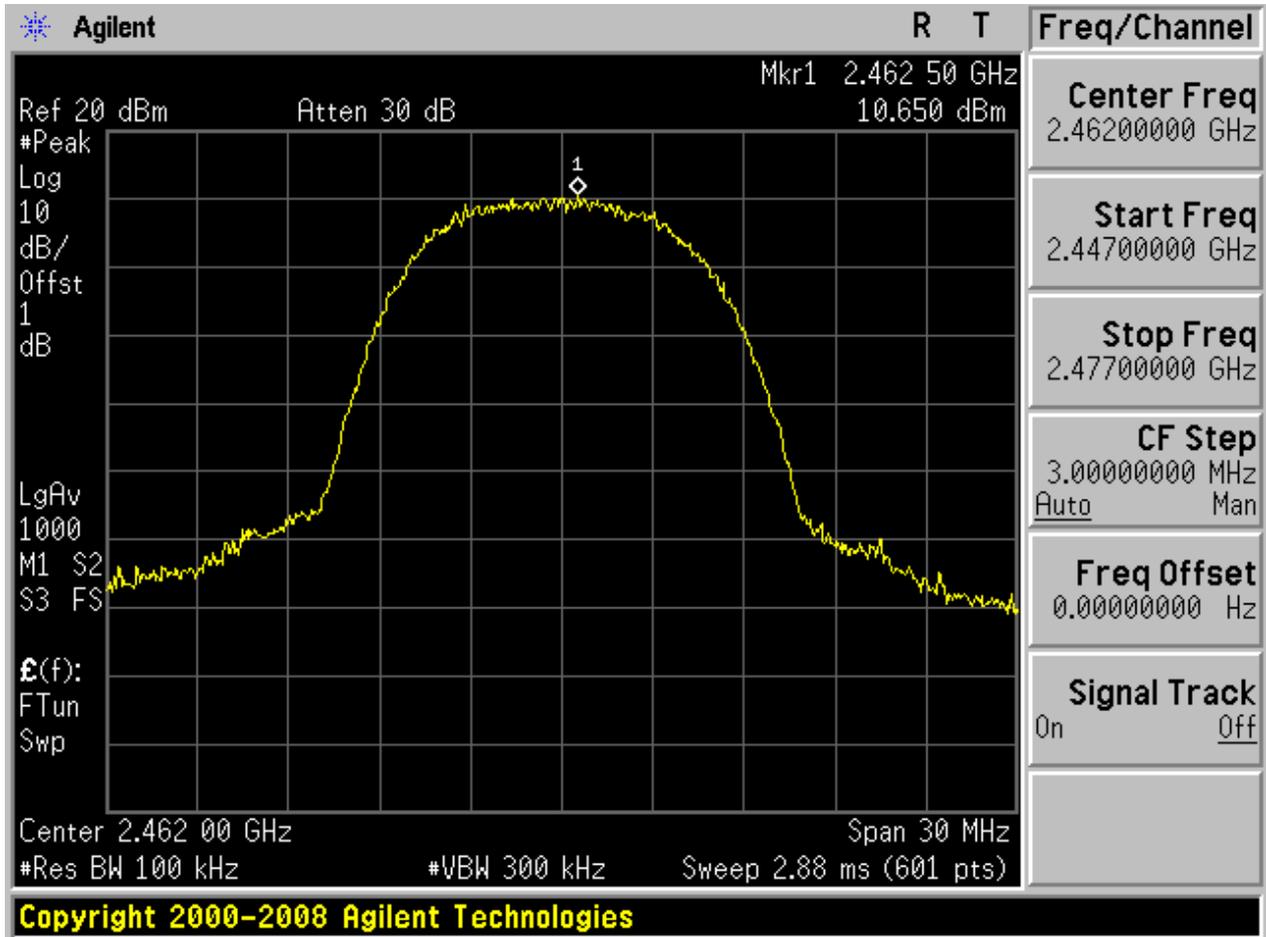






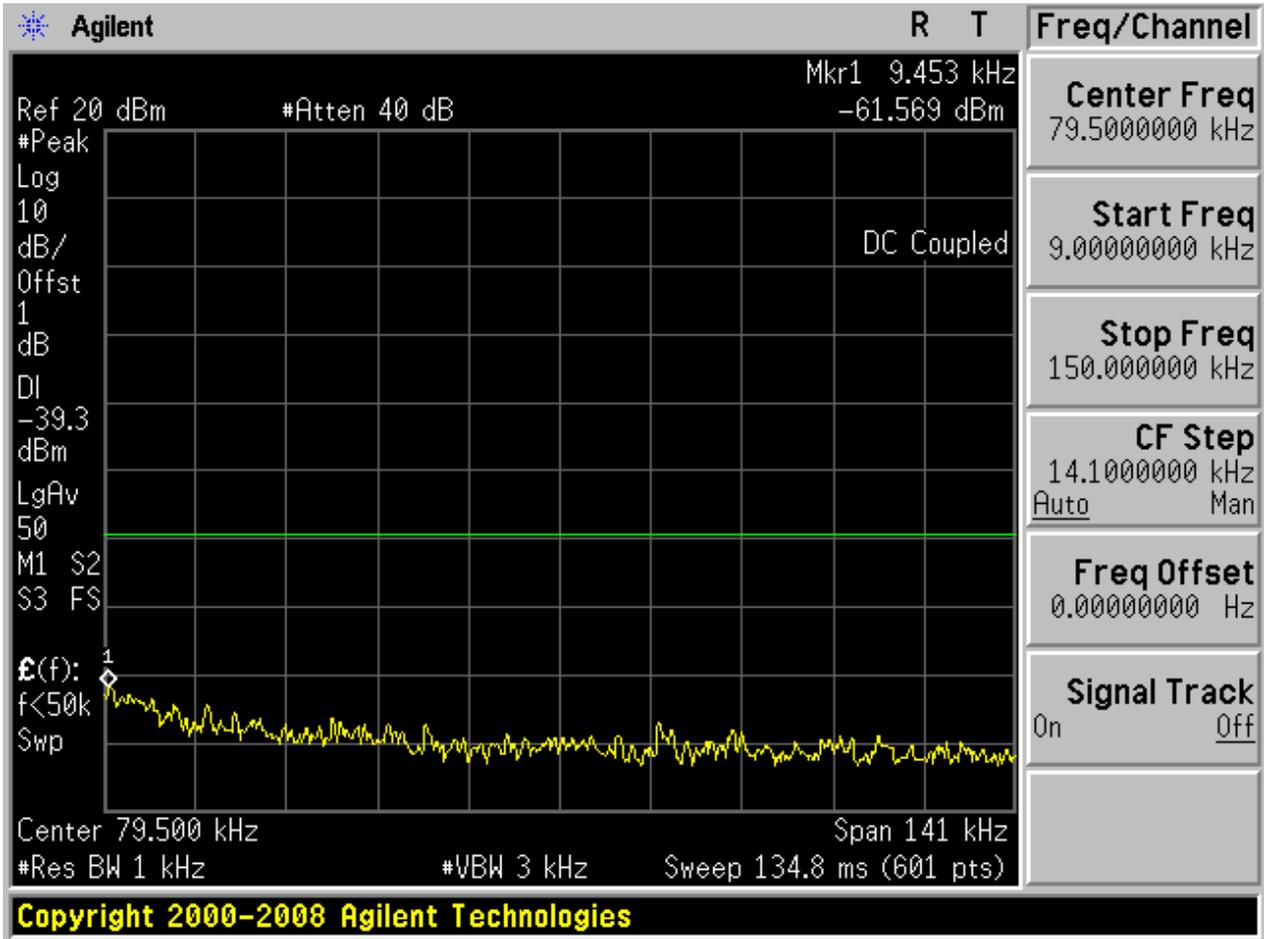
### 2.5 11B\_H@Ant 1

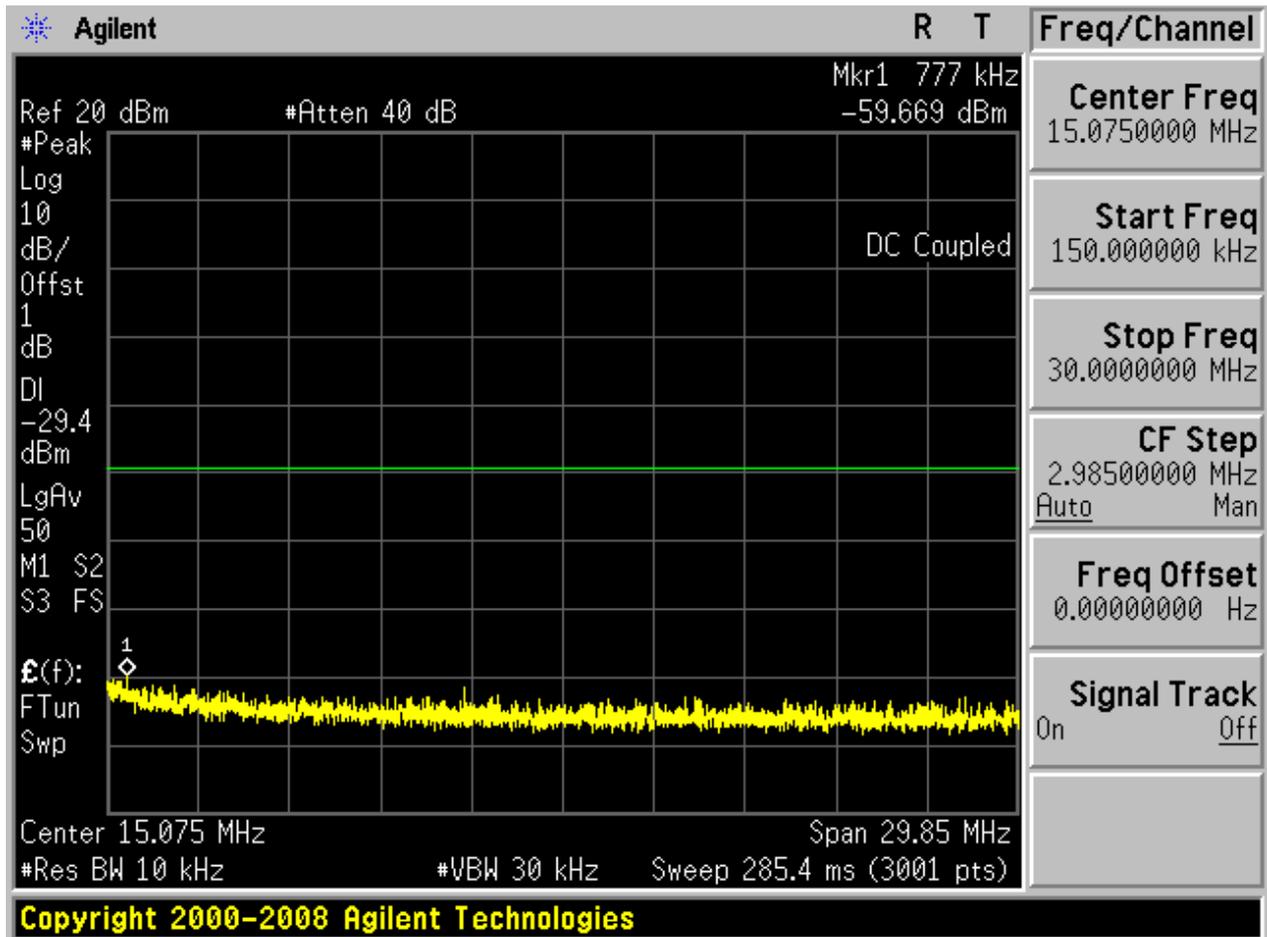
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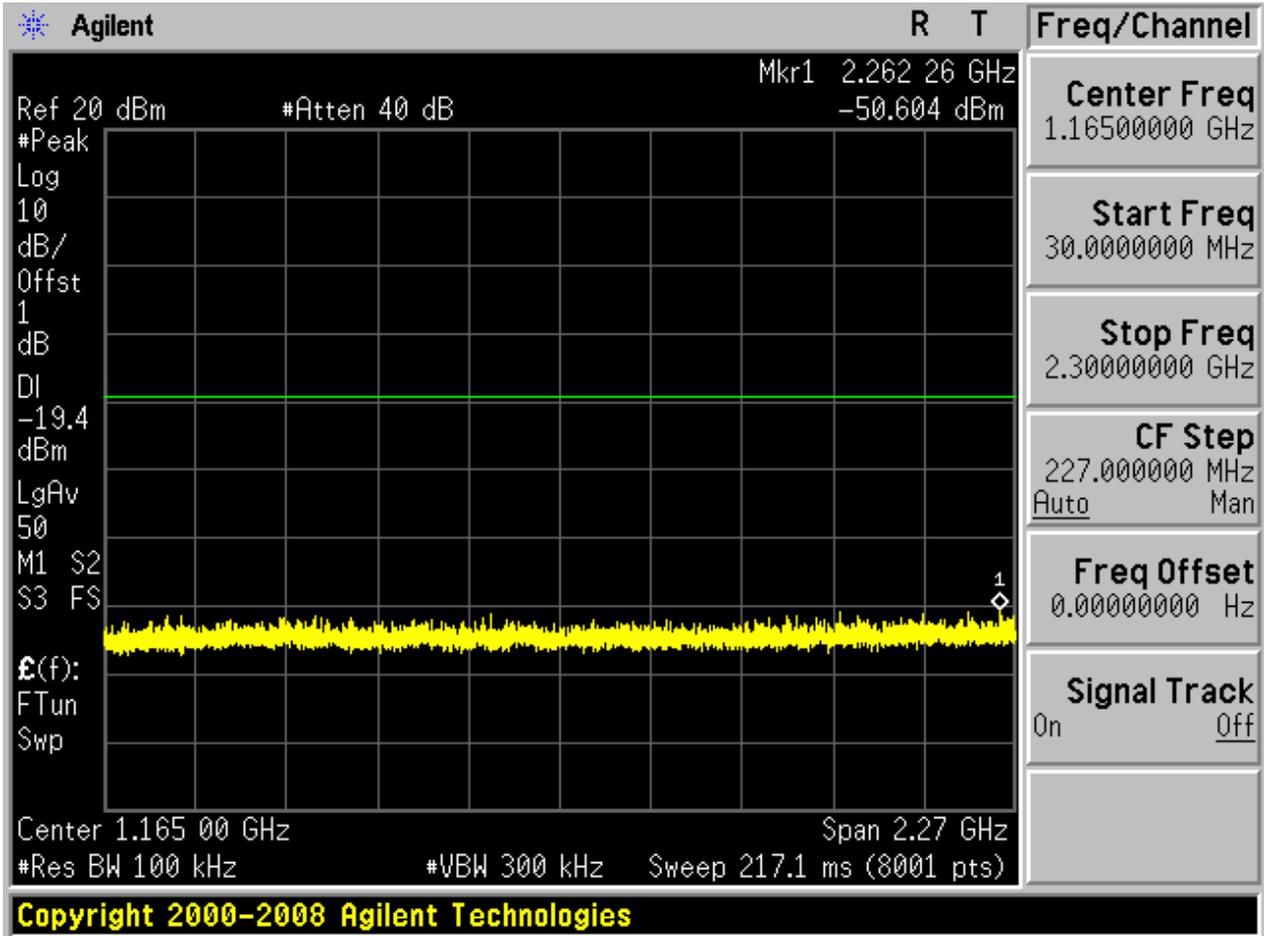


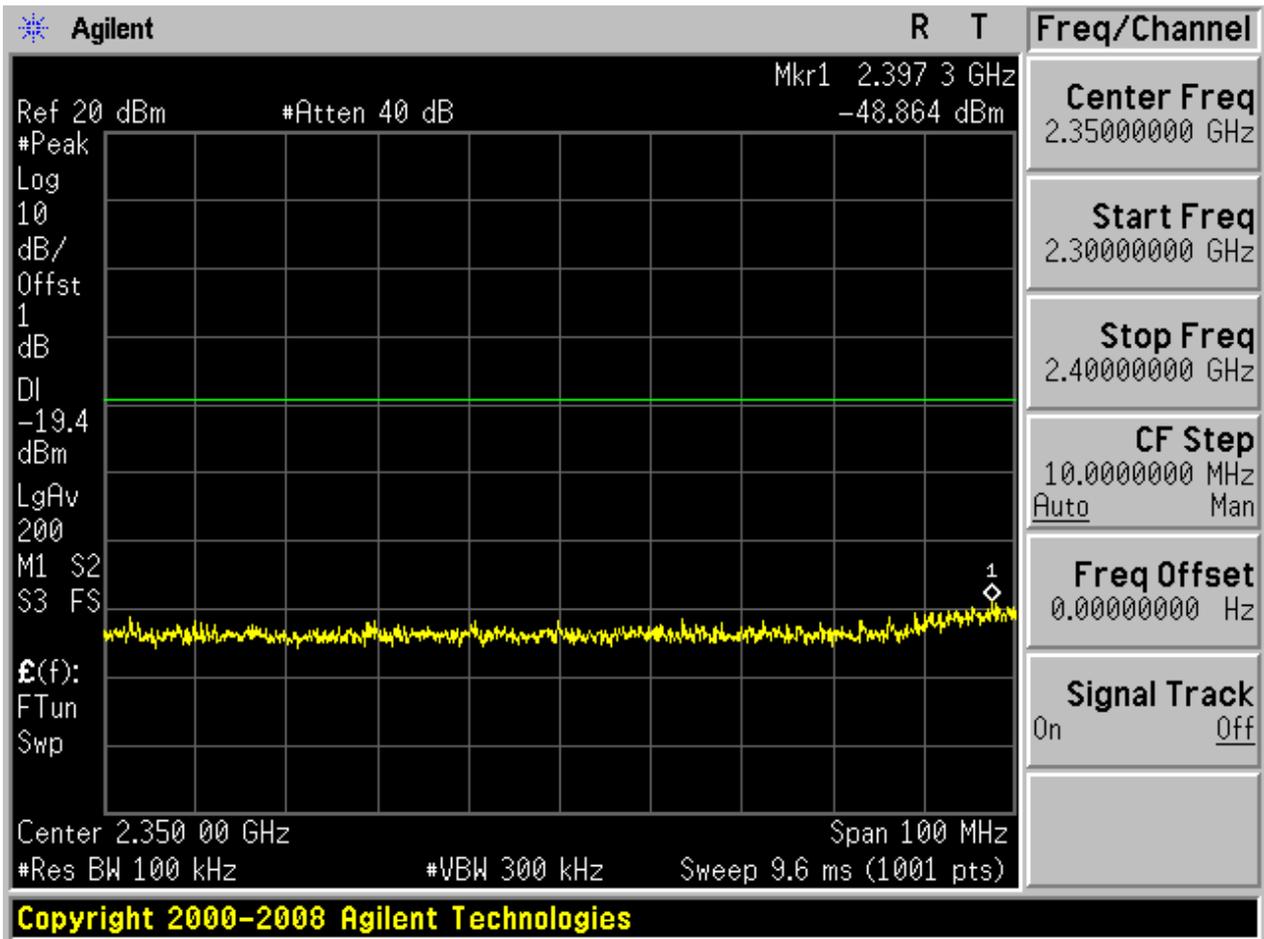


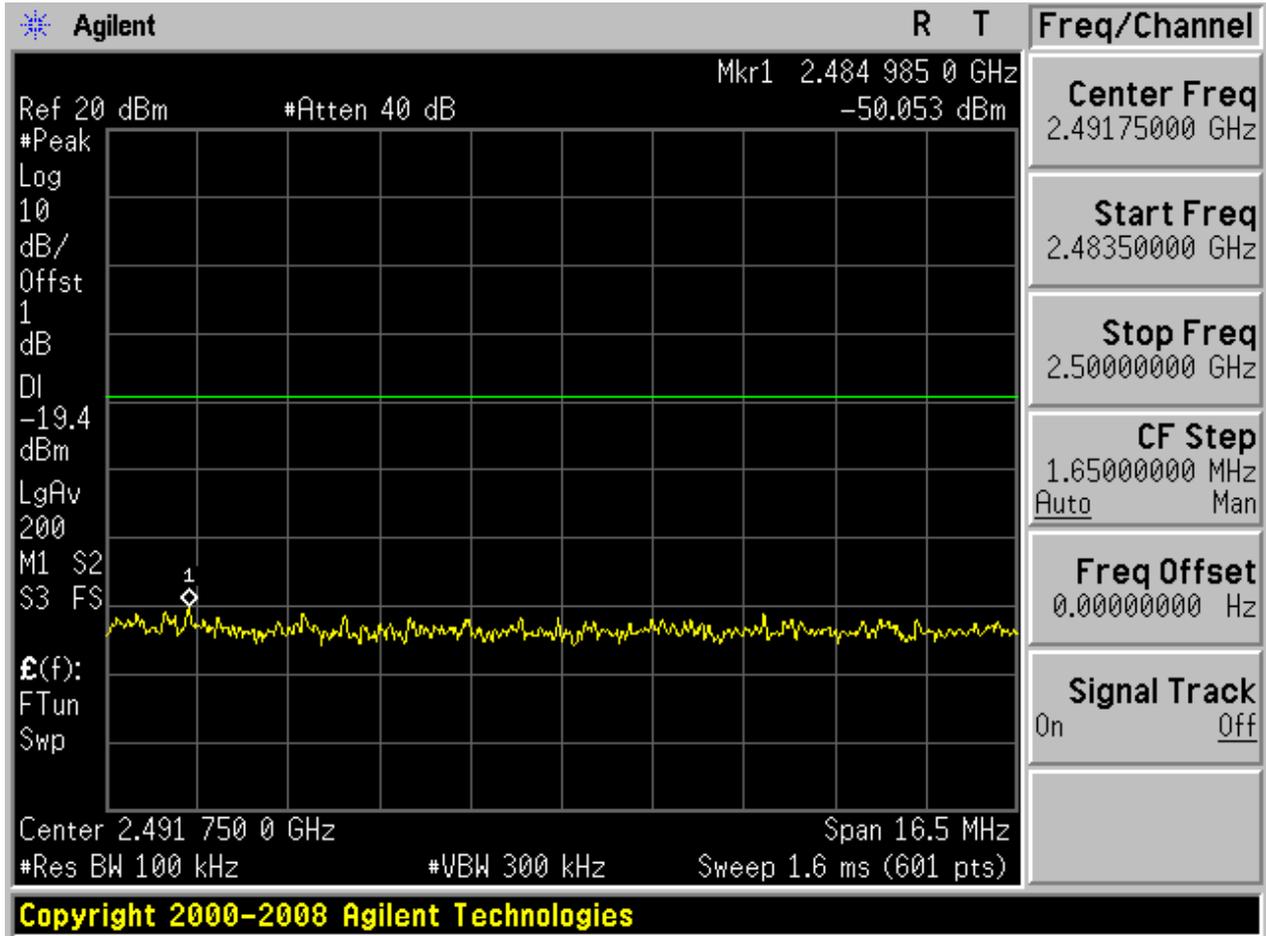
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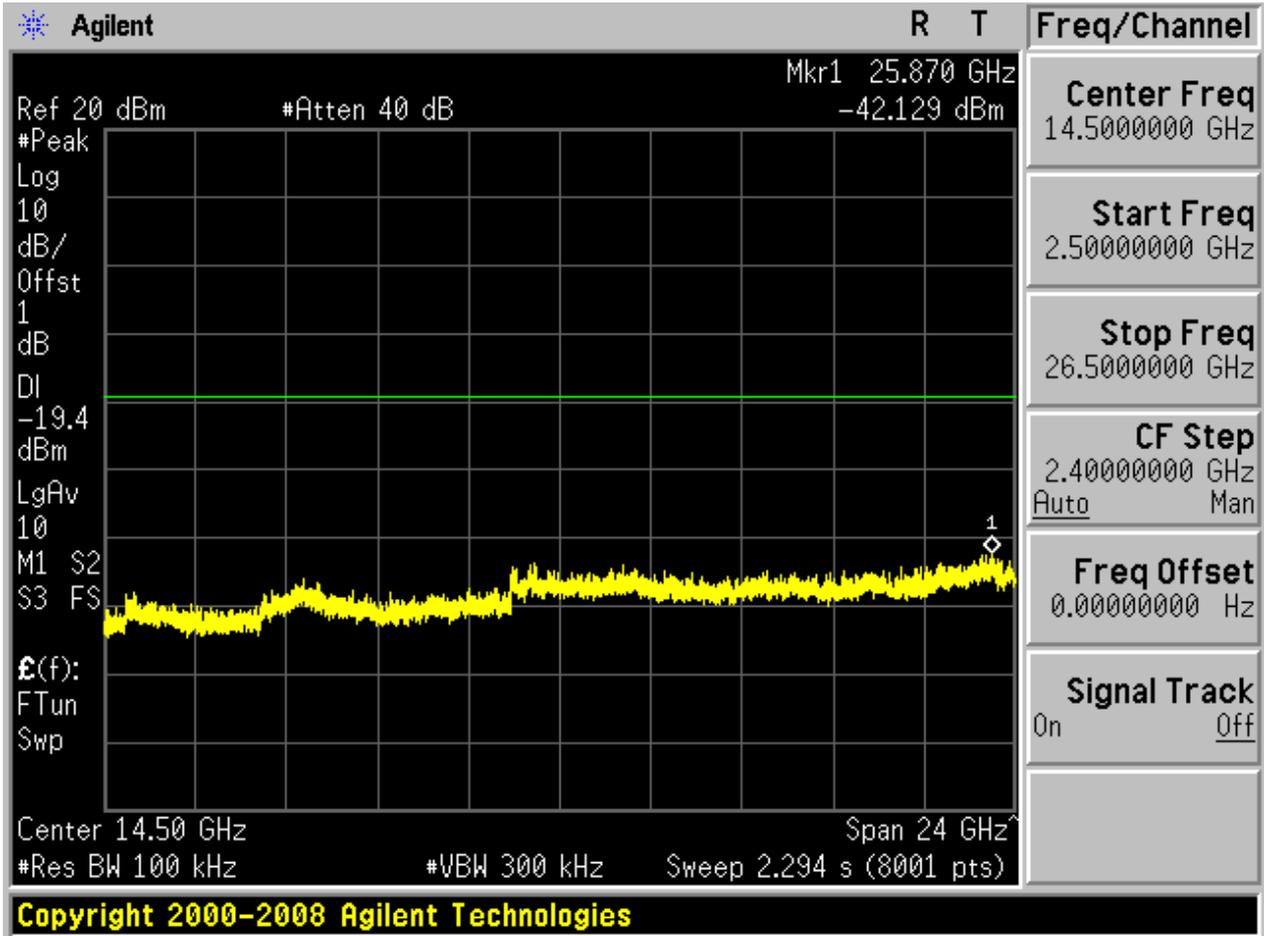








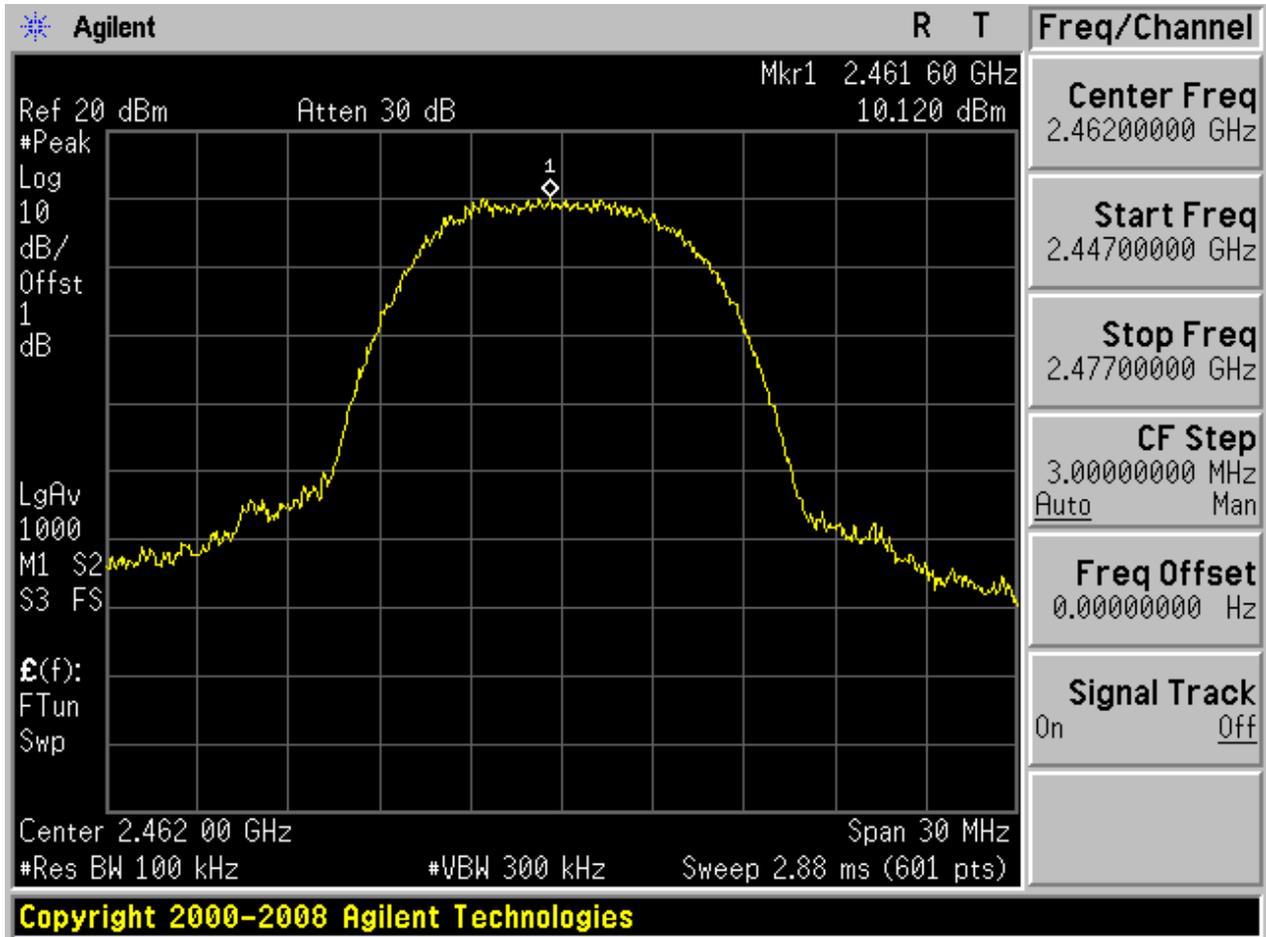






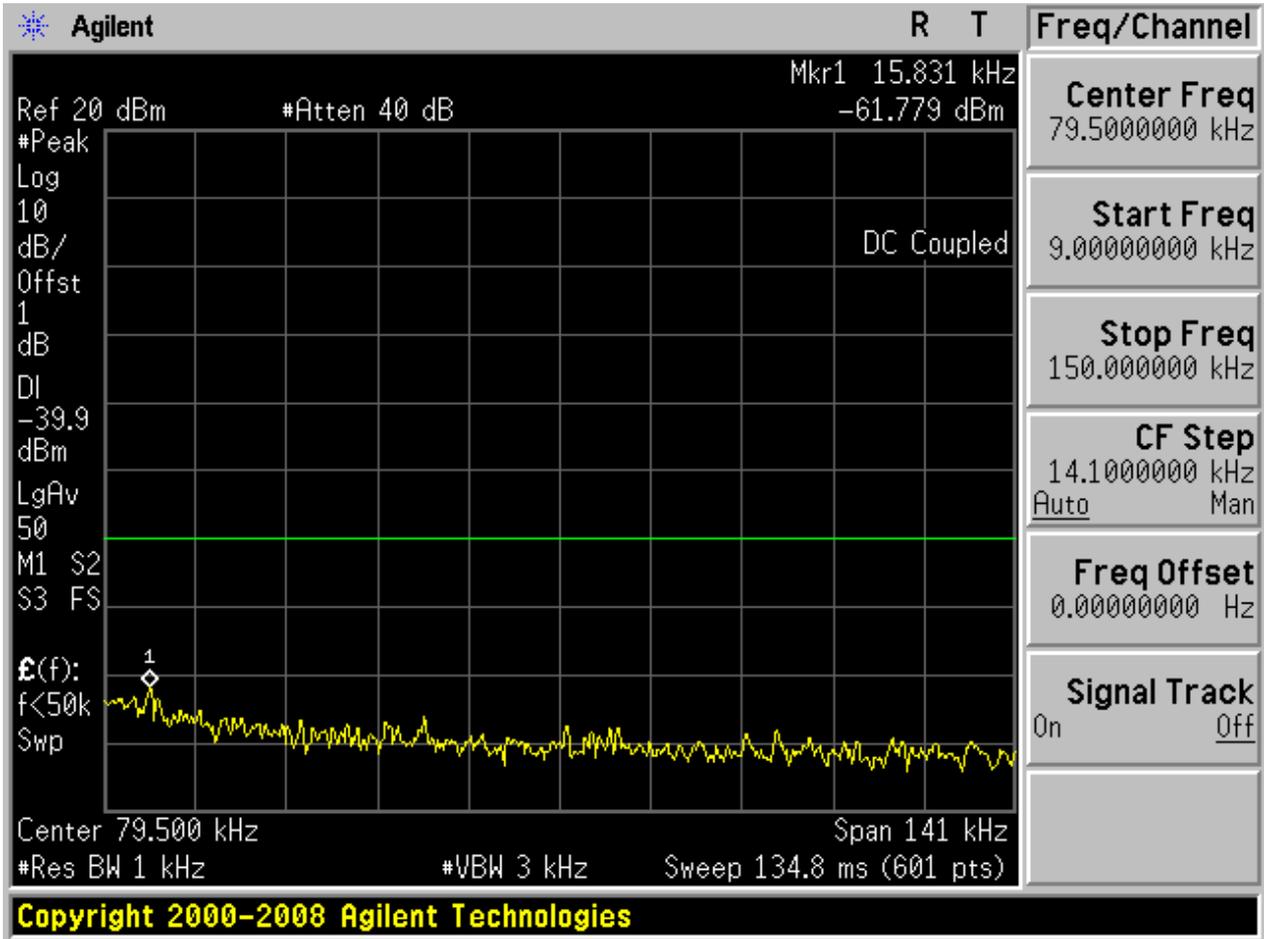
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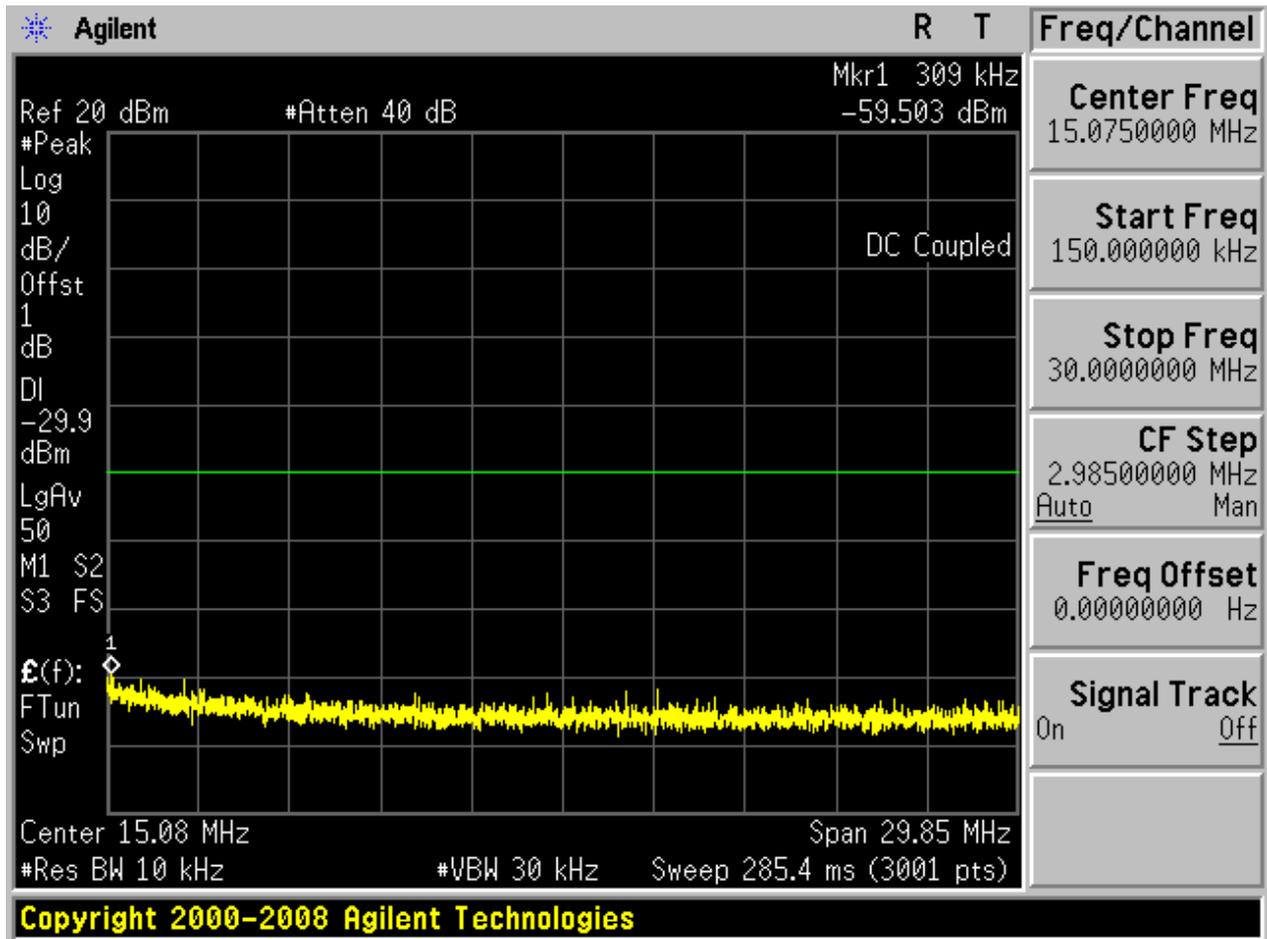
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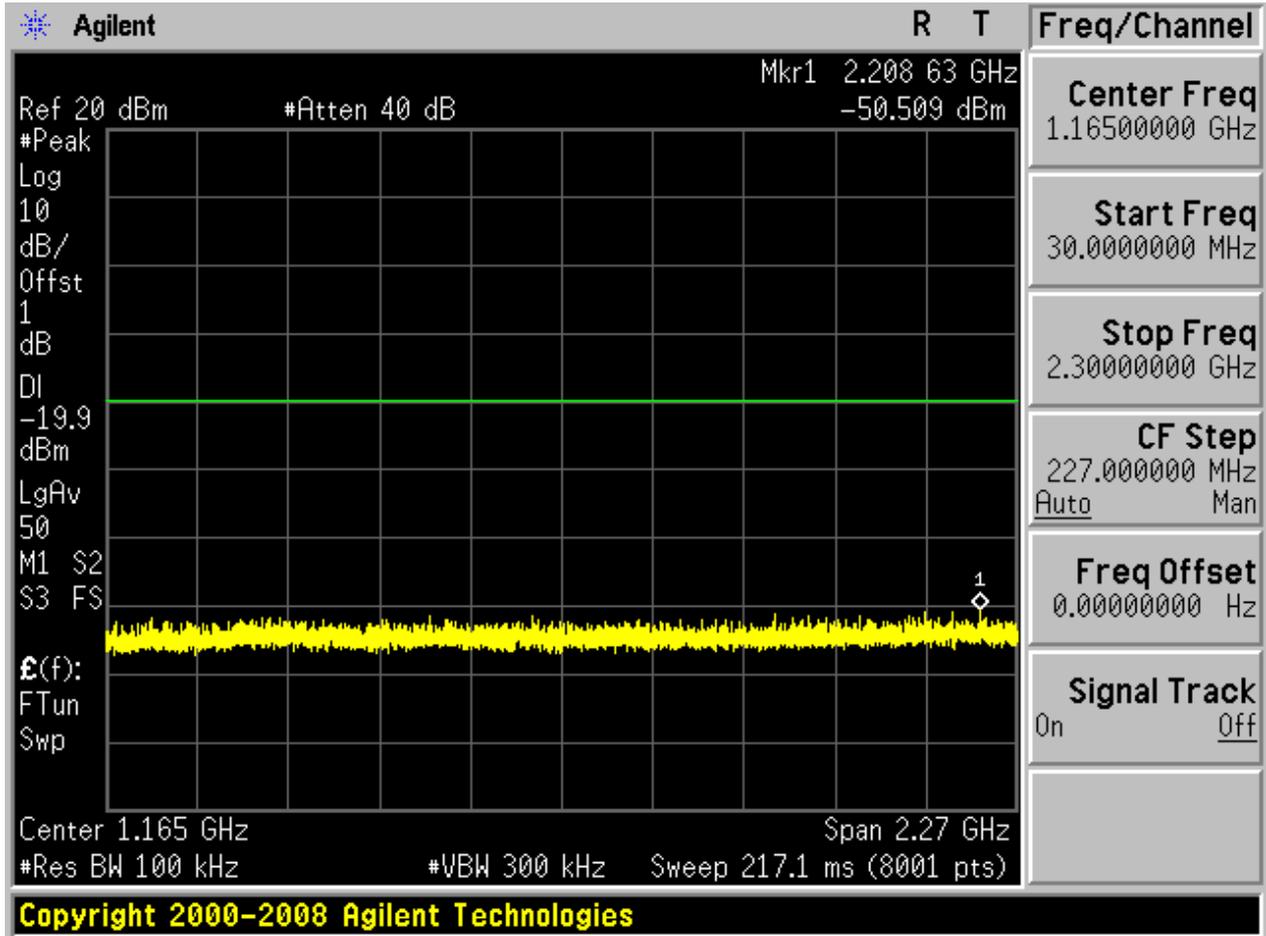


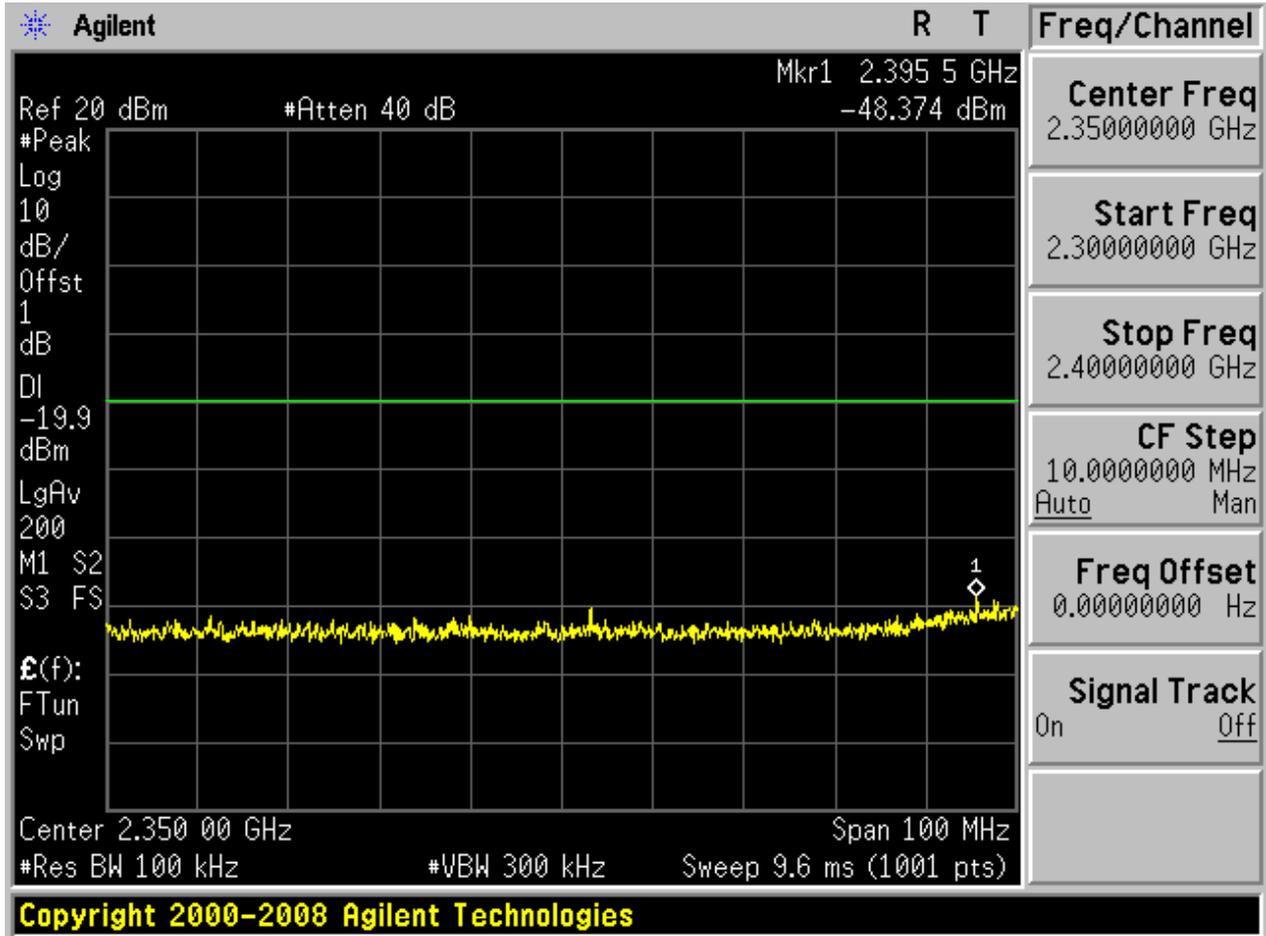


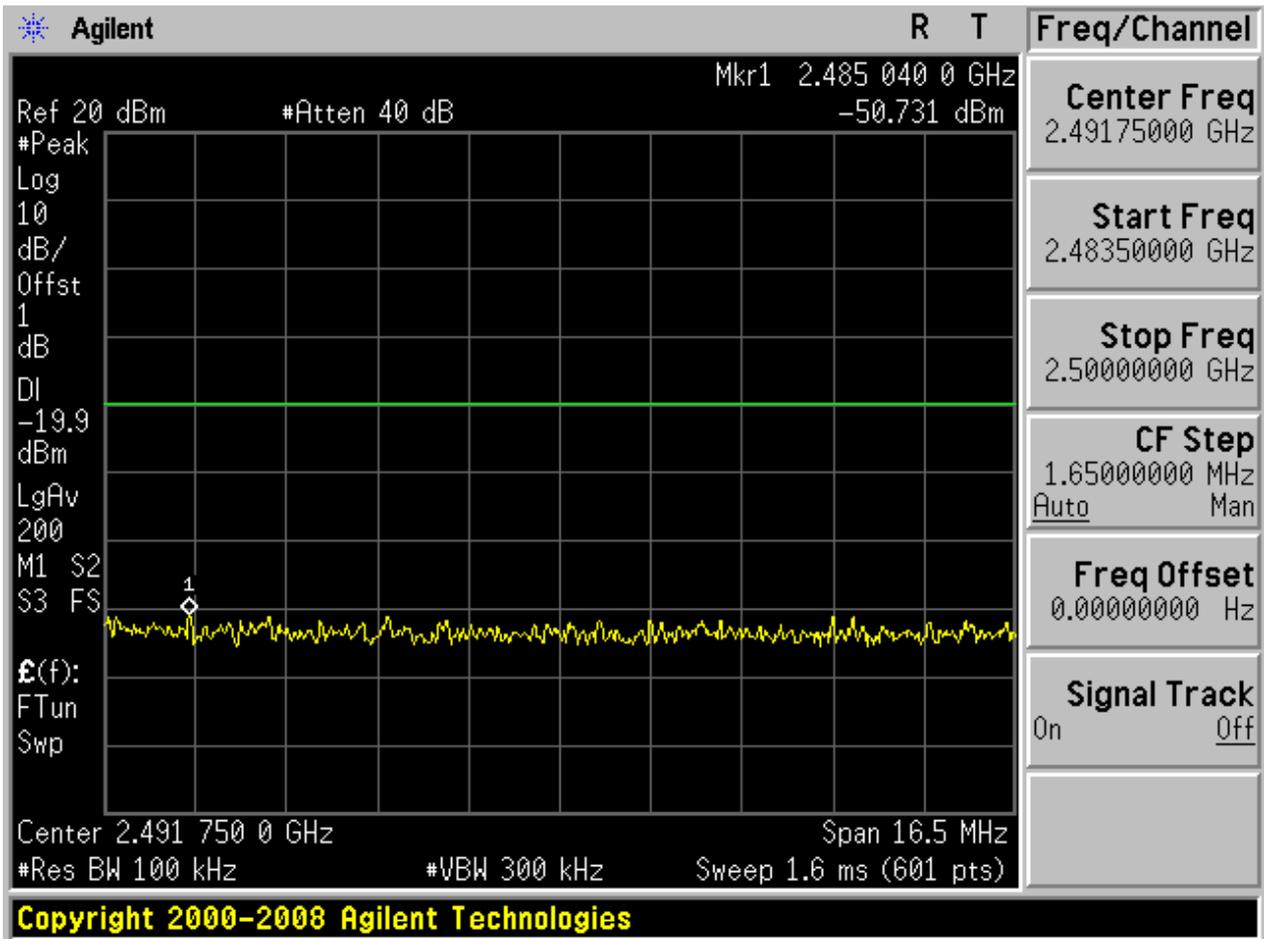
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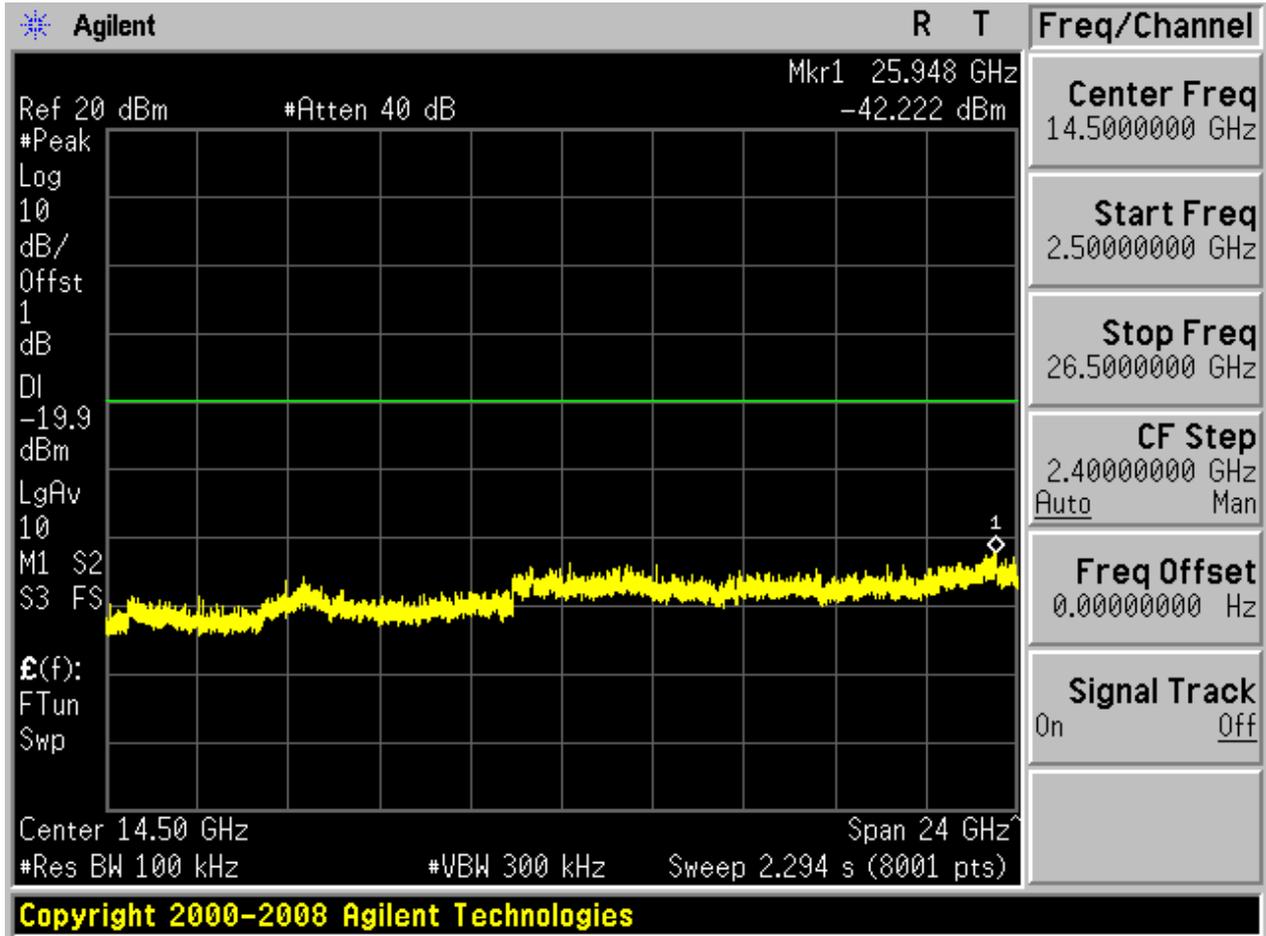








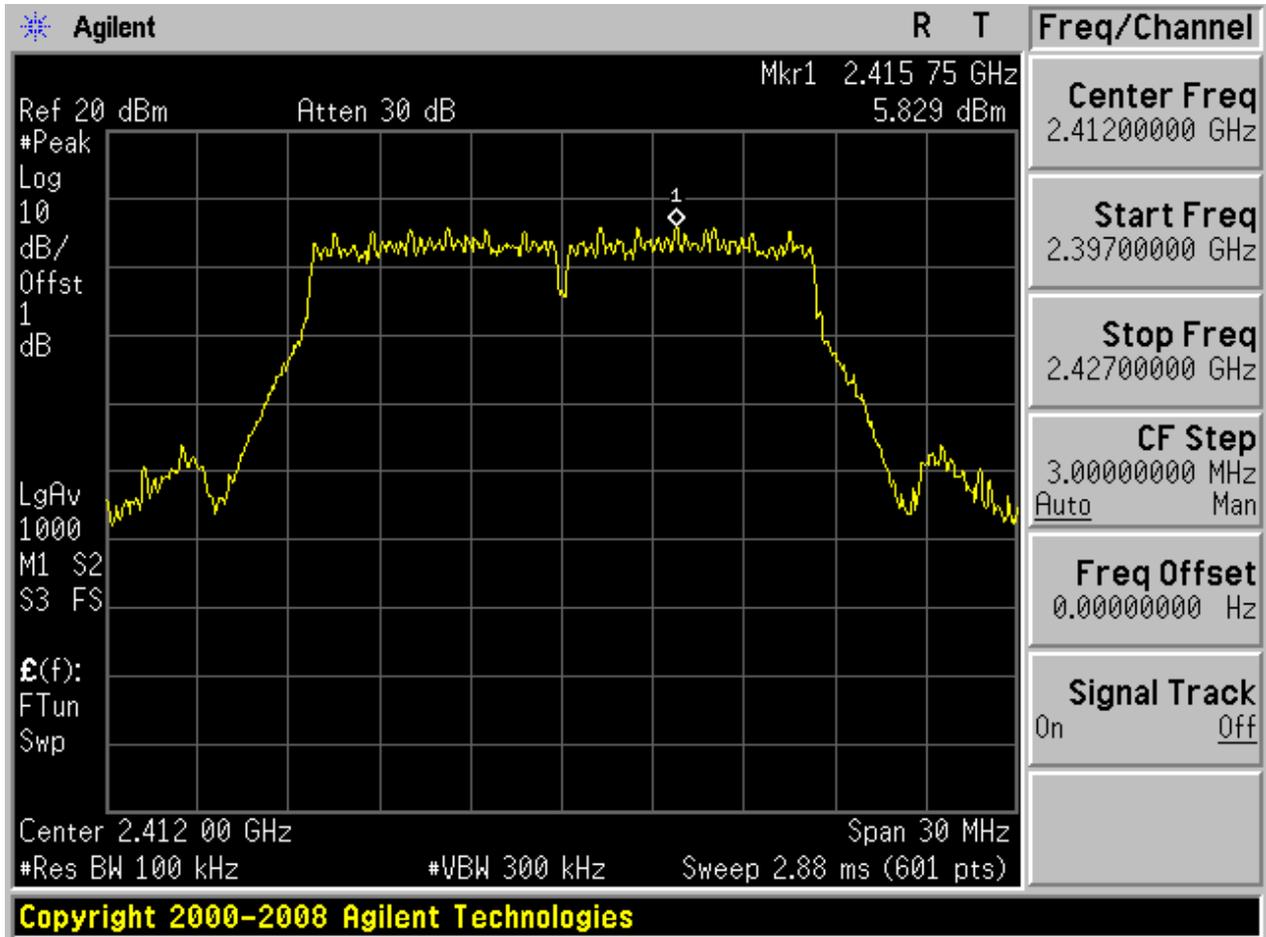






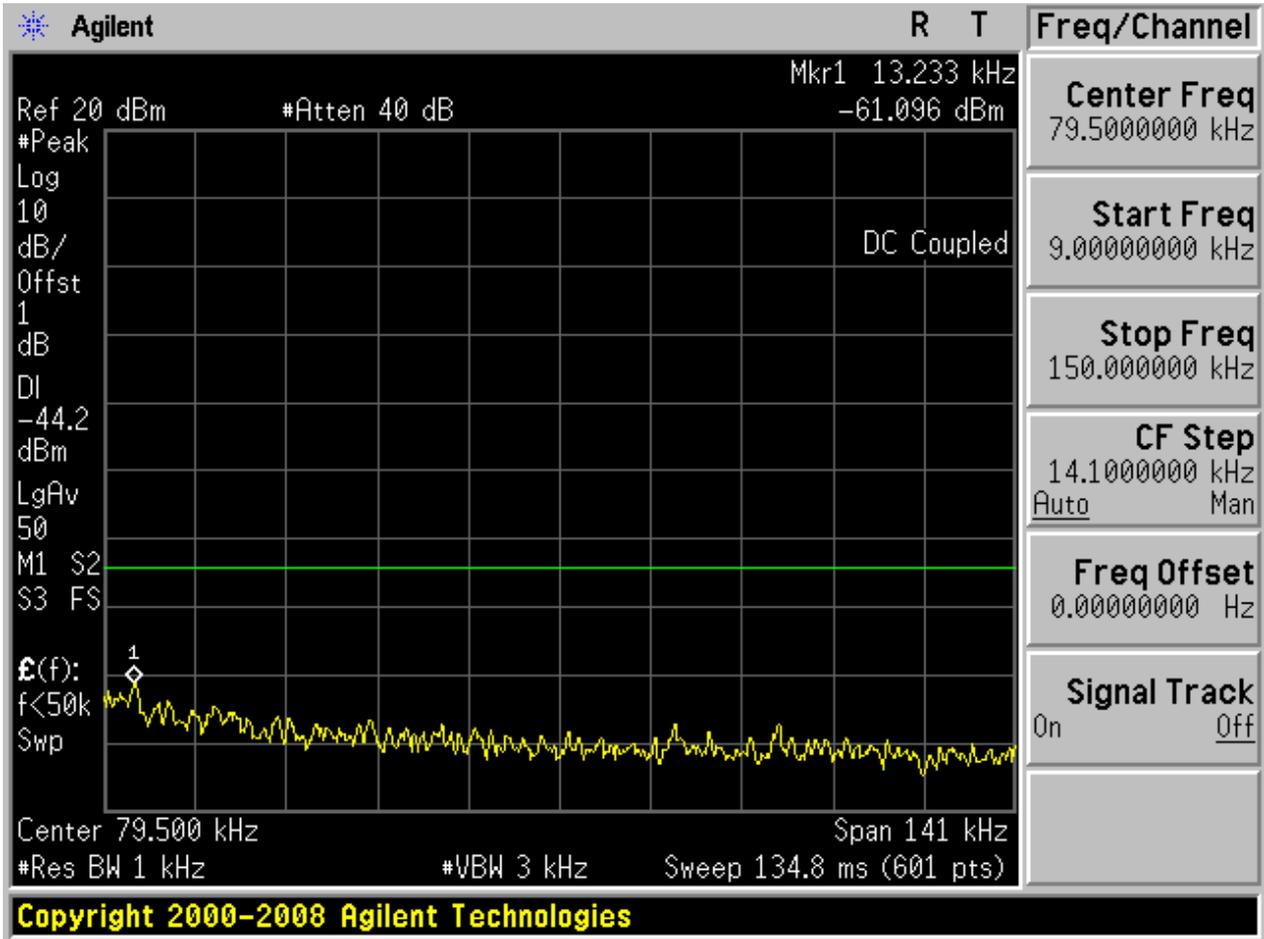
### 2.7 11G\_L@Ant 1

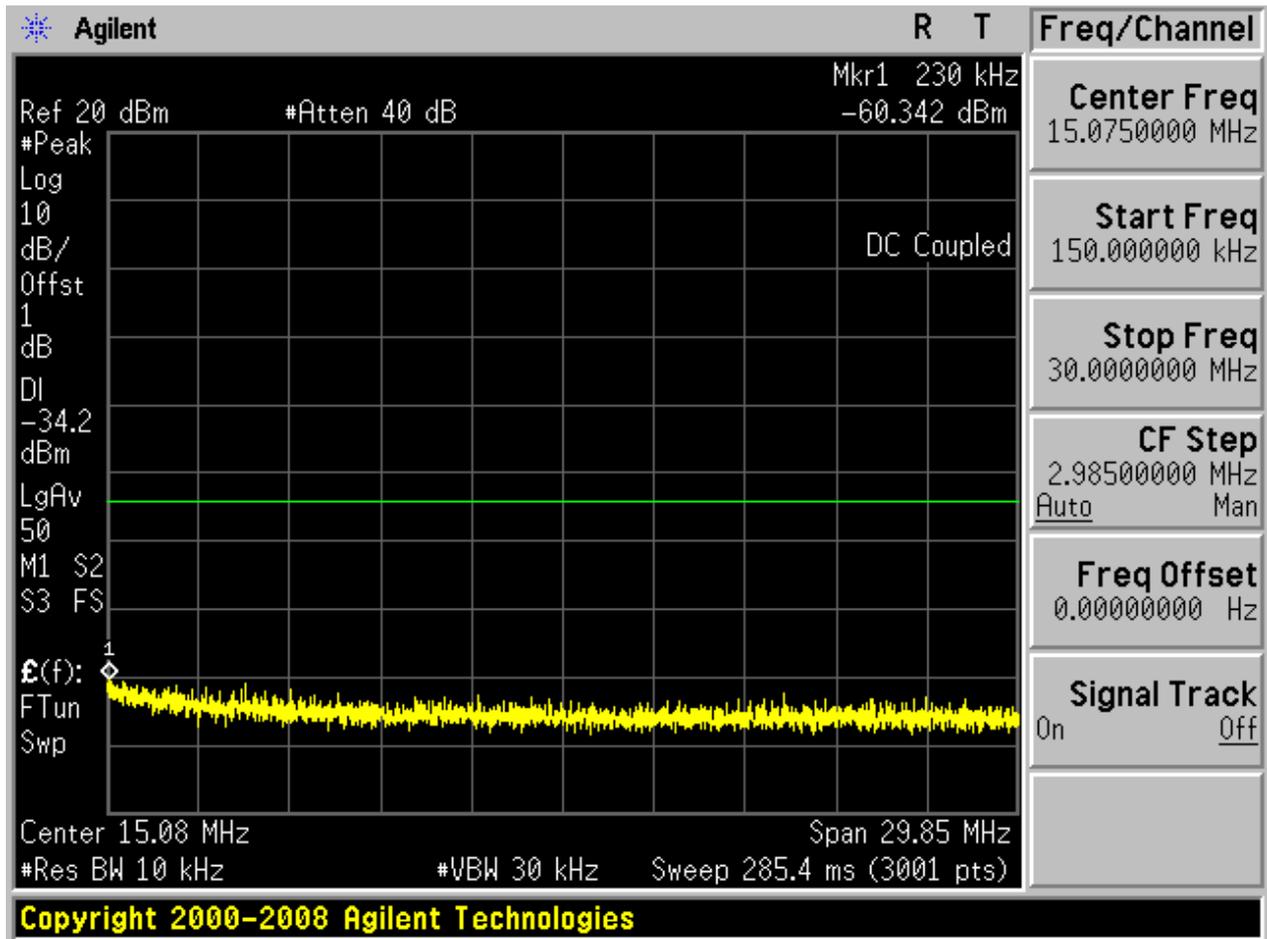
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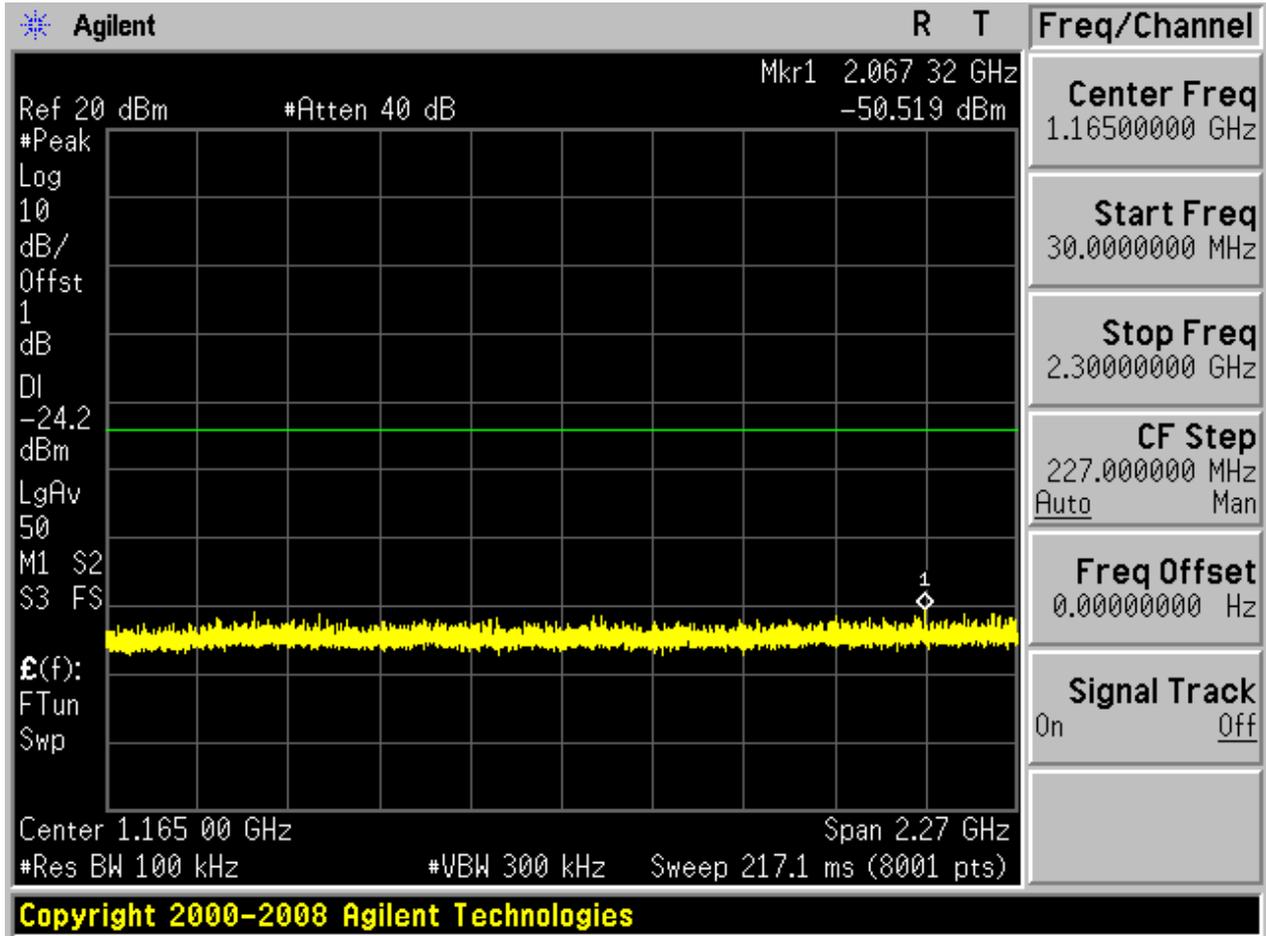


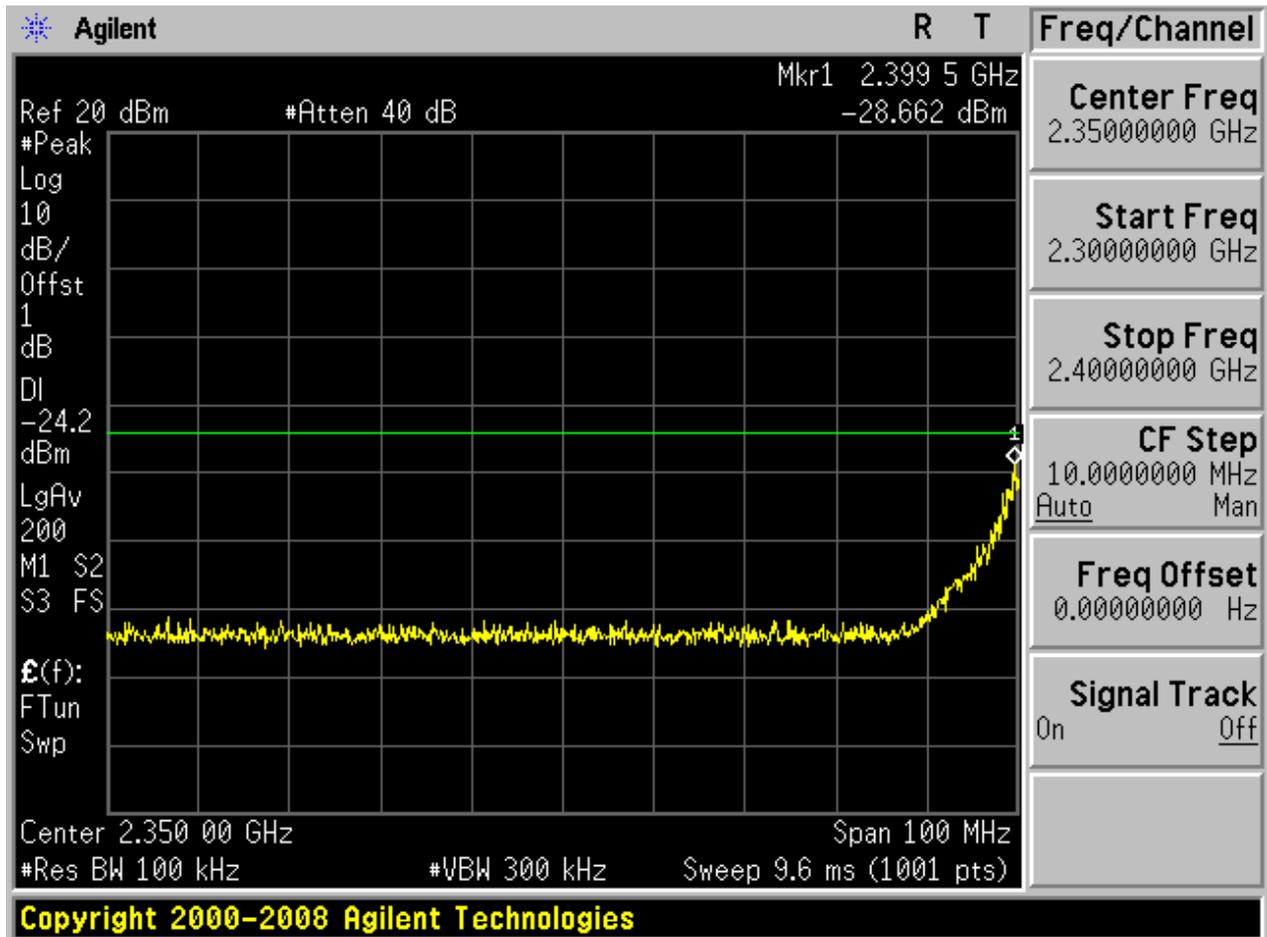


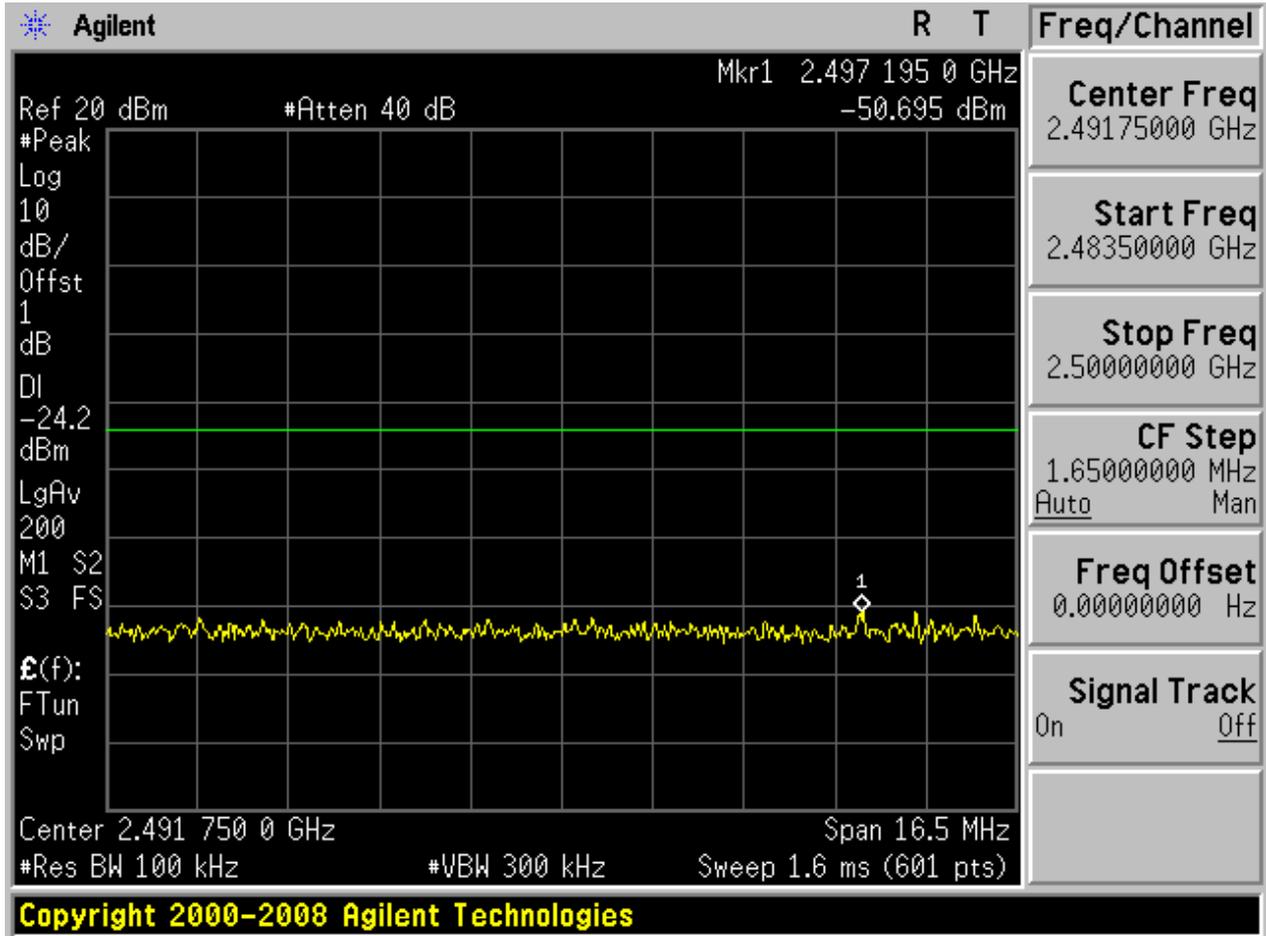
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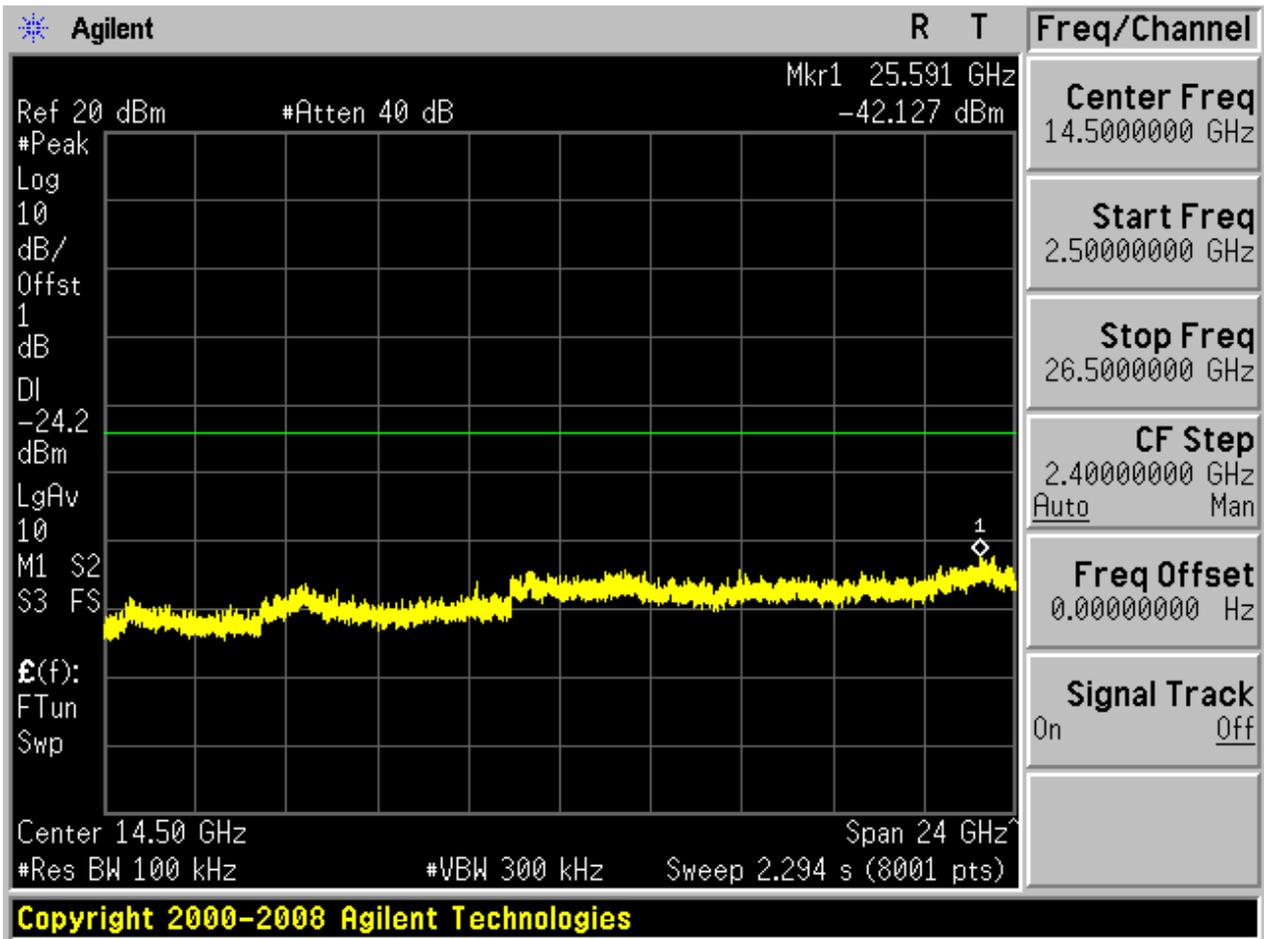








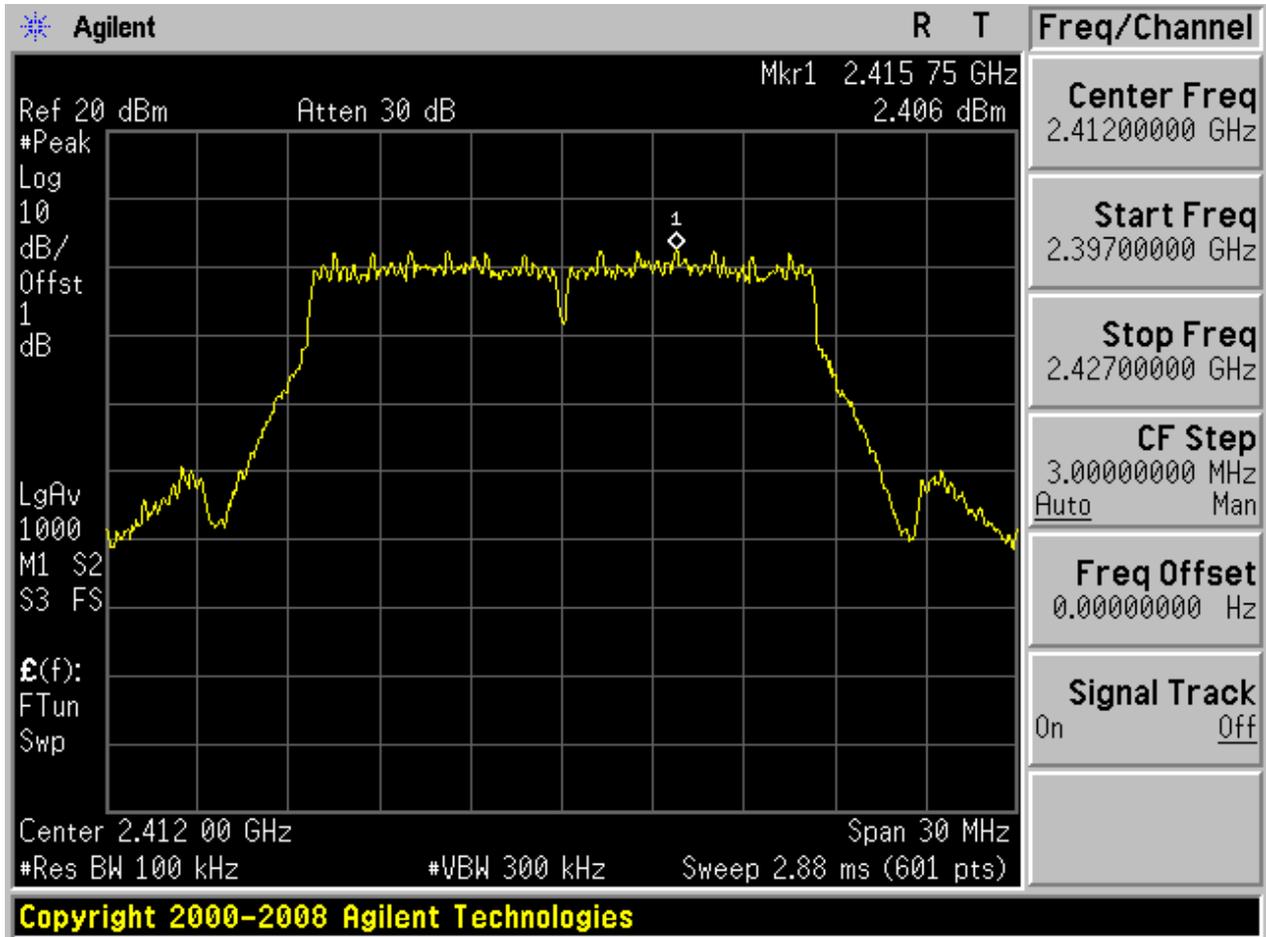




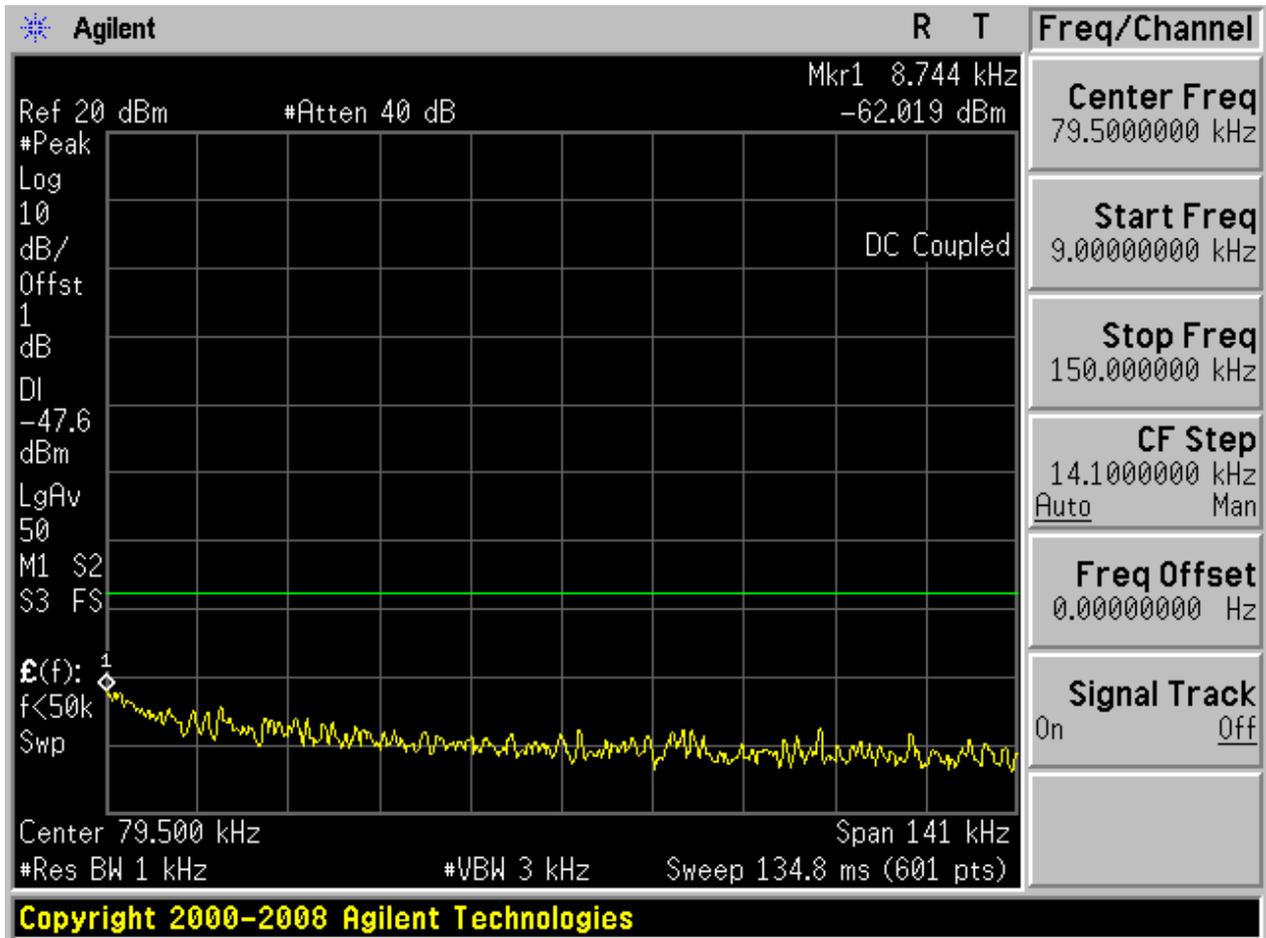


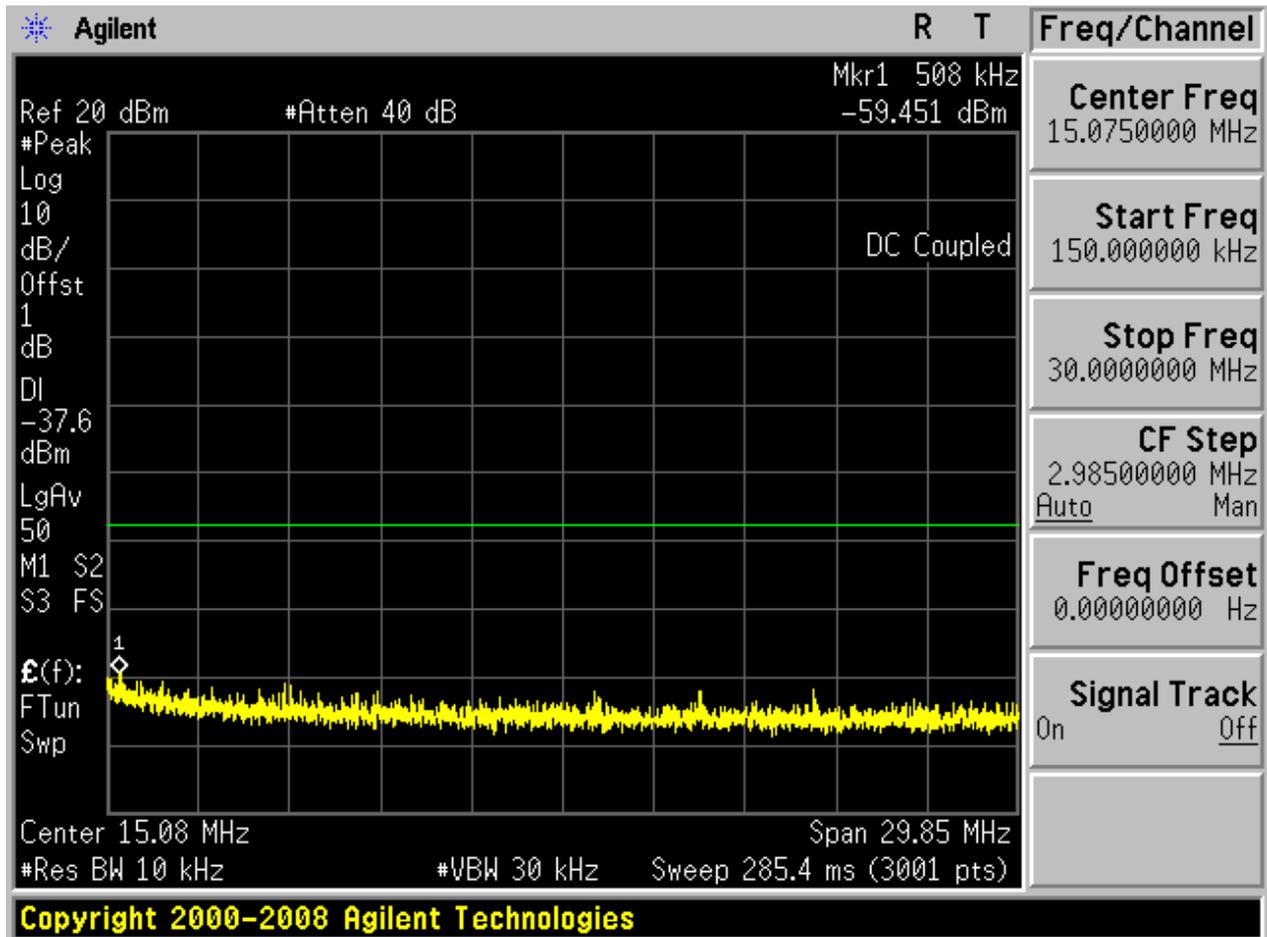
### 2.8 11G\_L@Ant 2

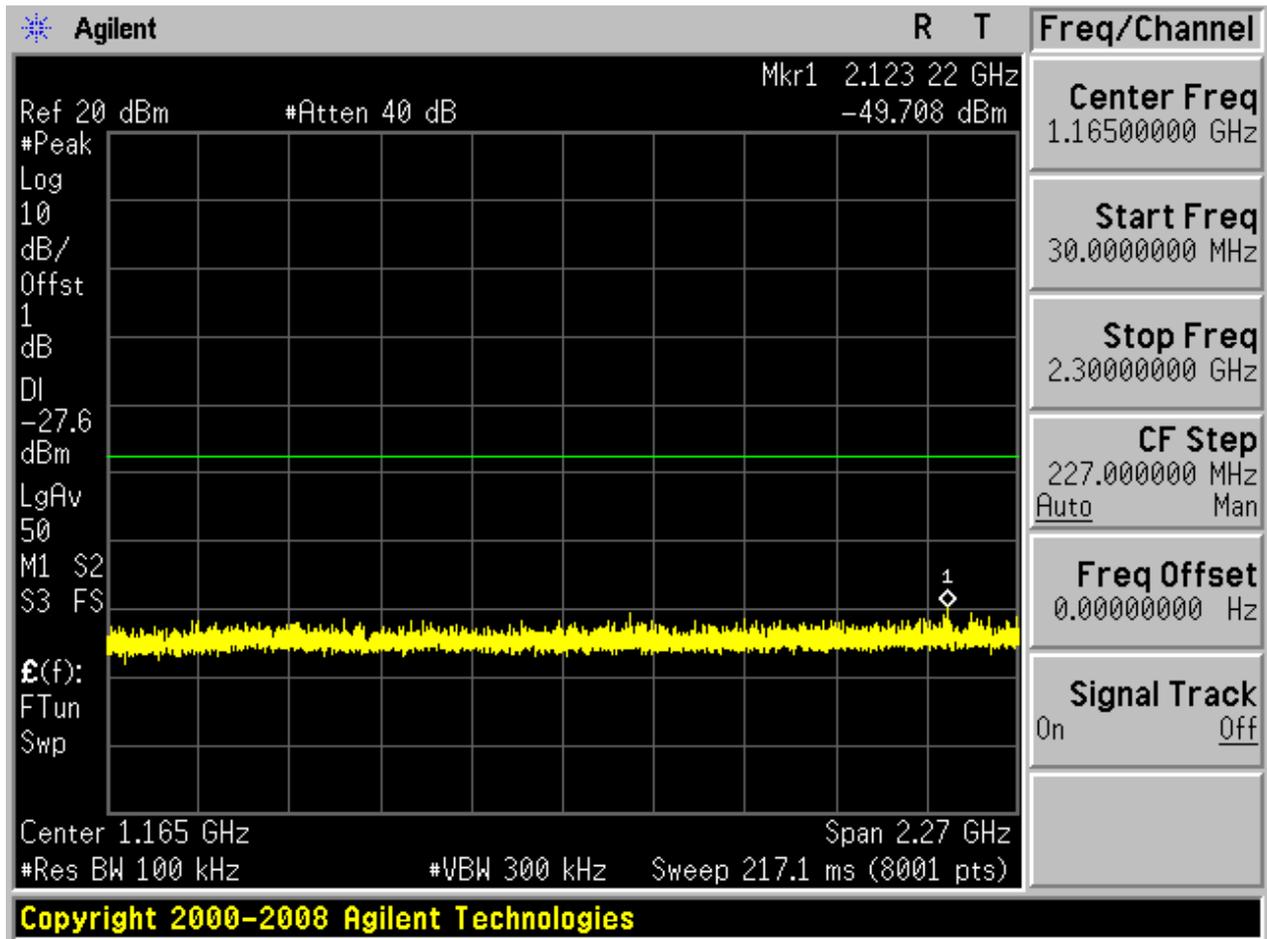
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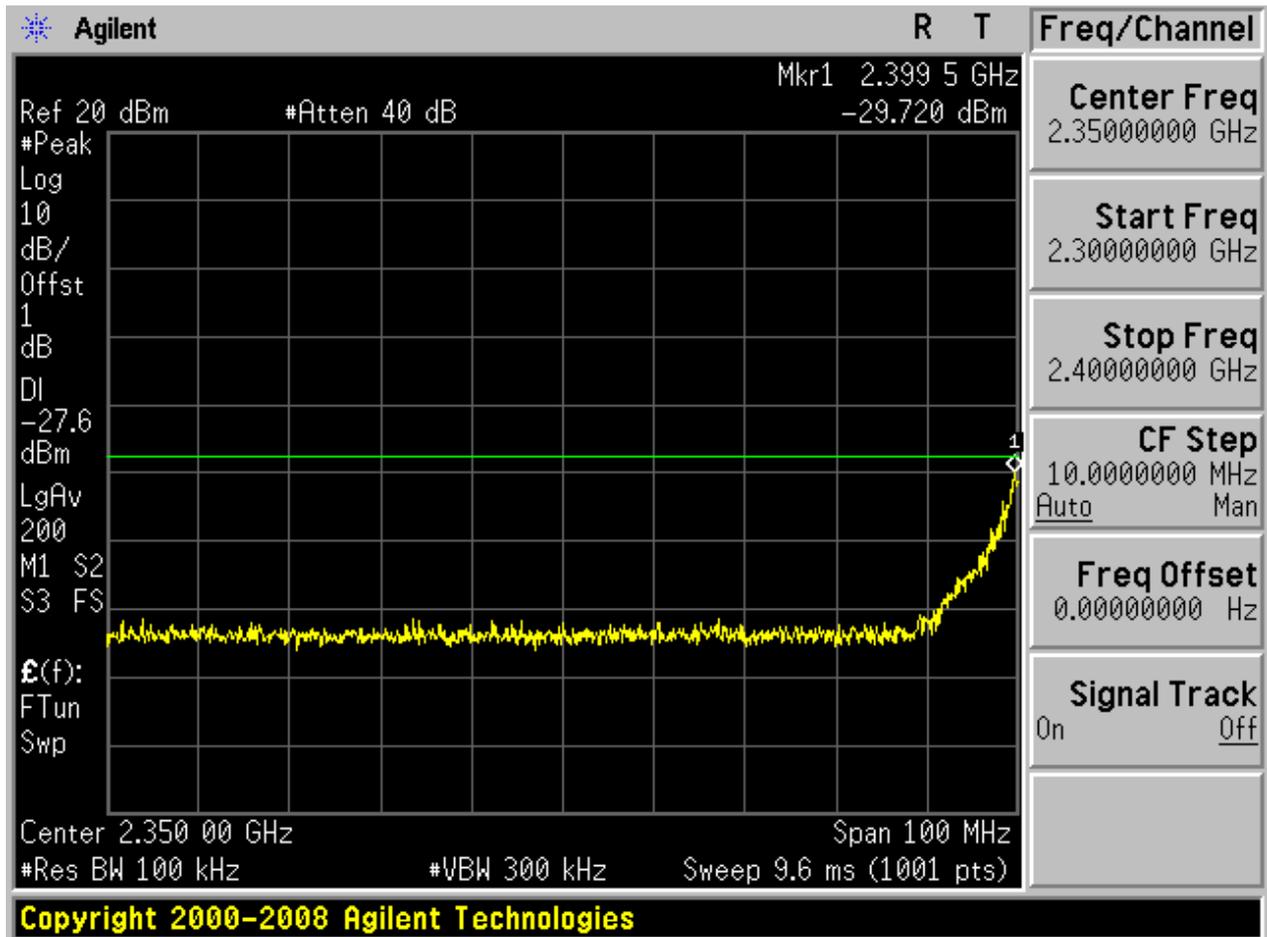


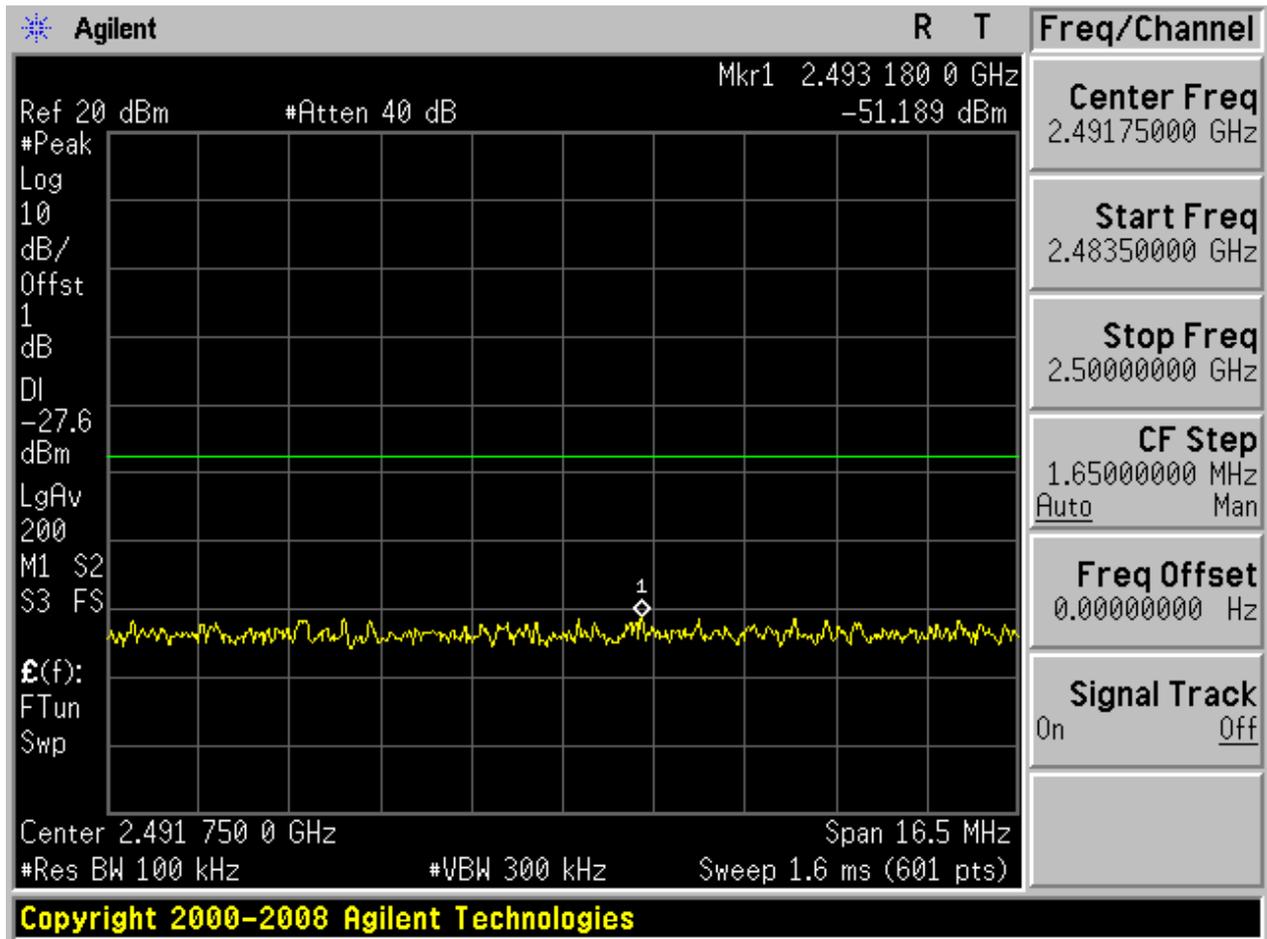
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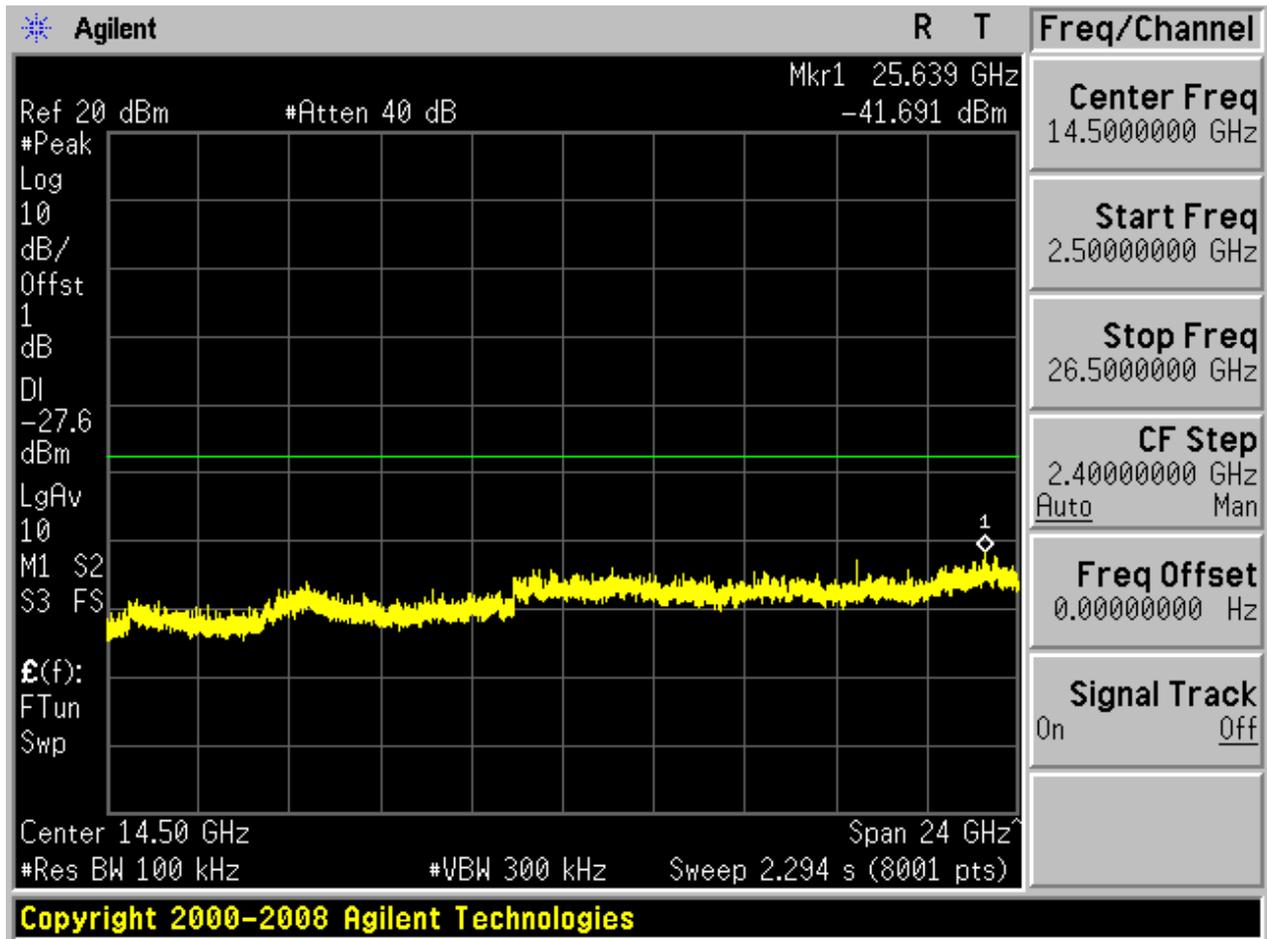








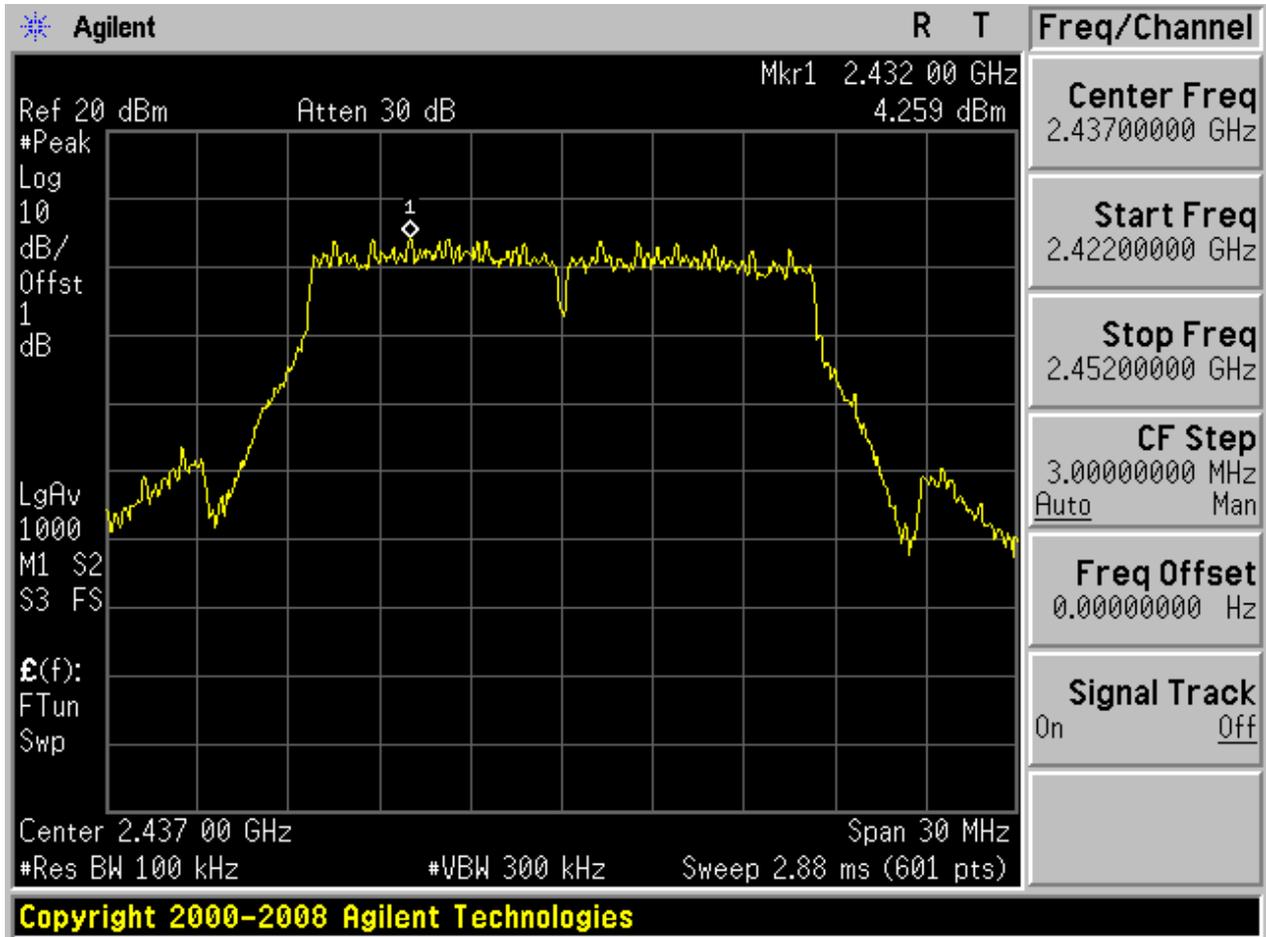






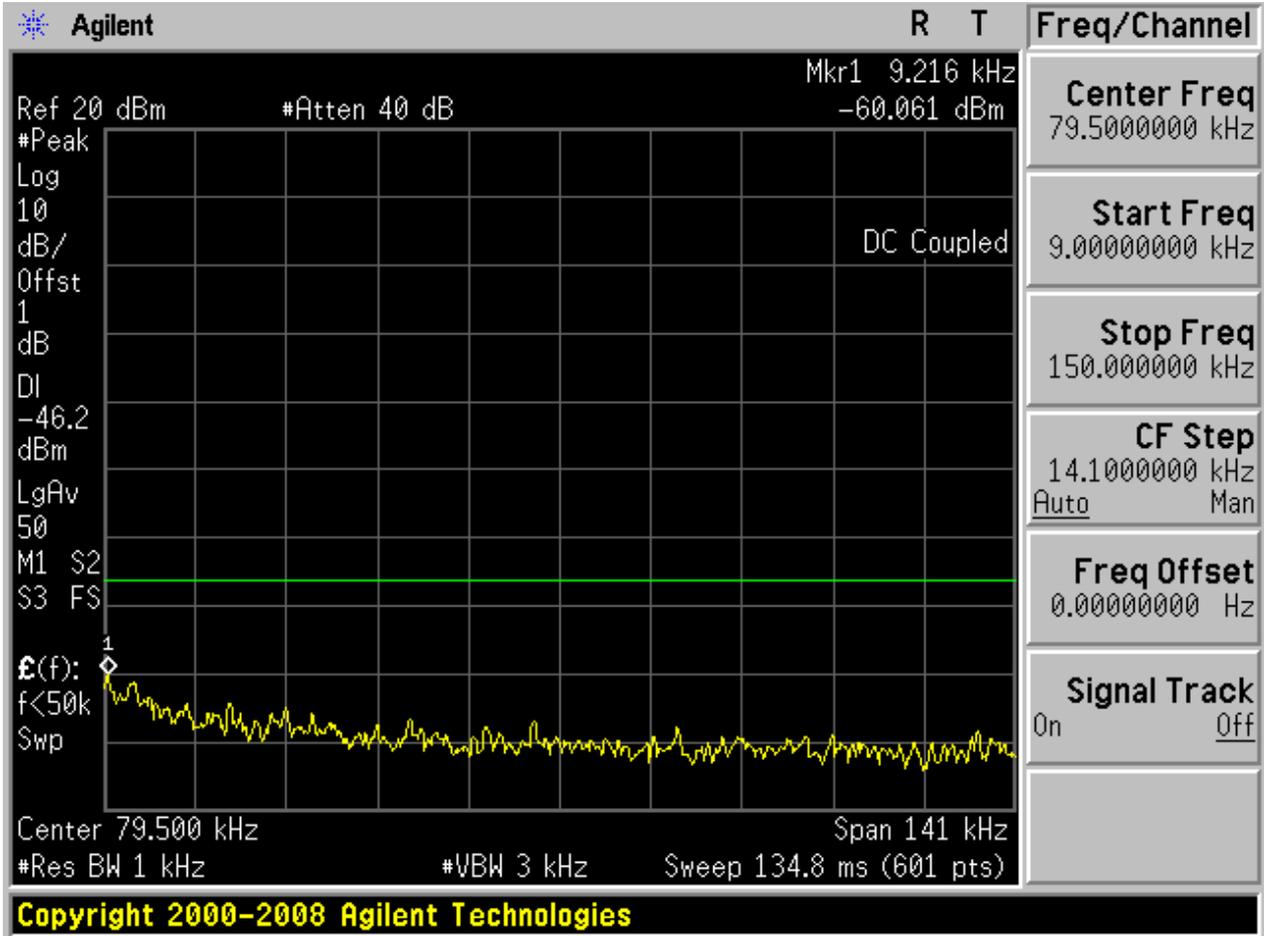
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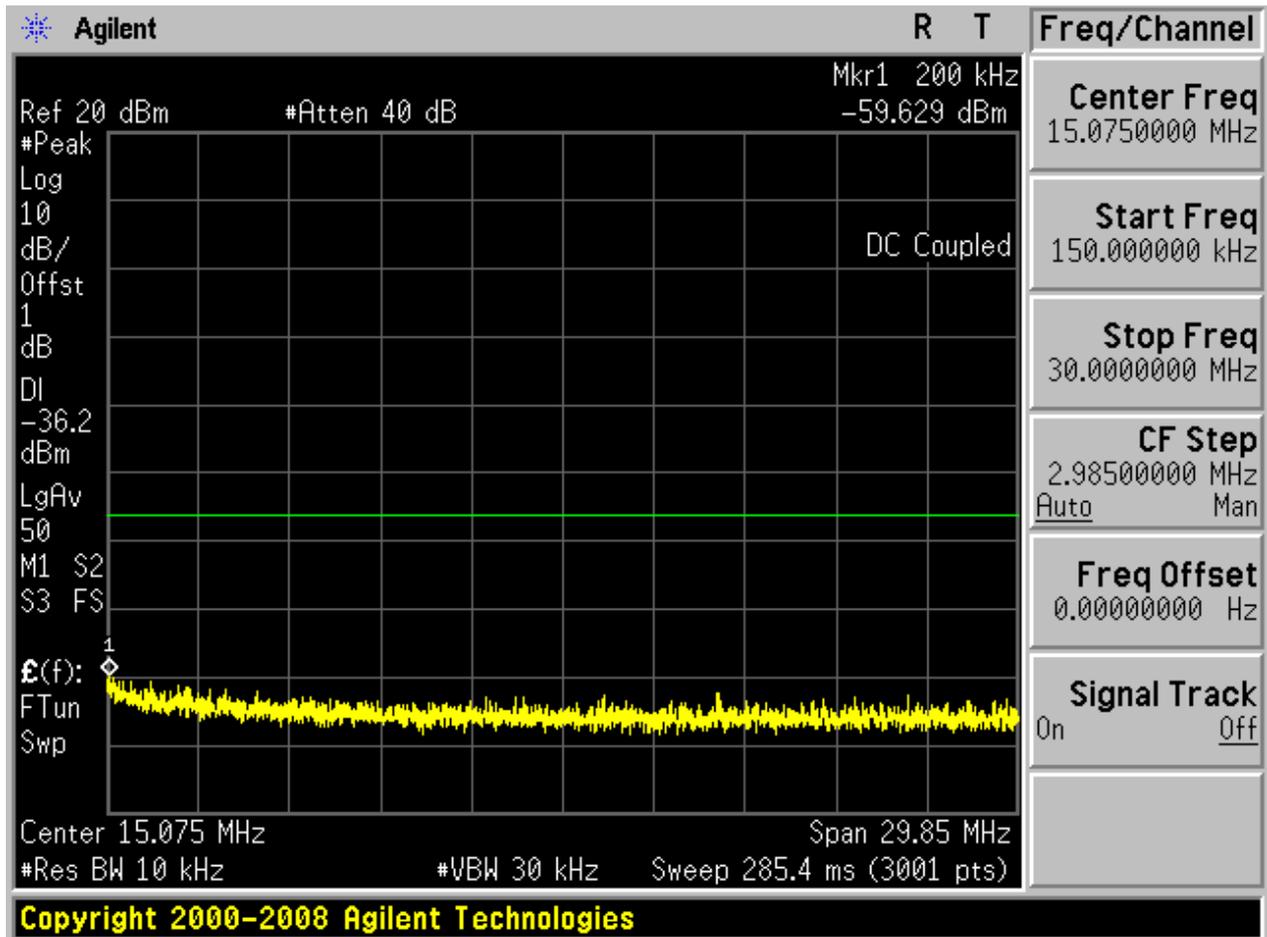
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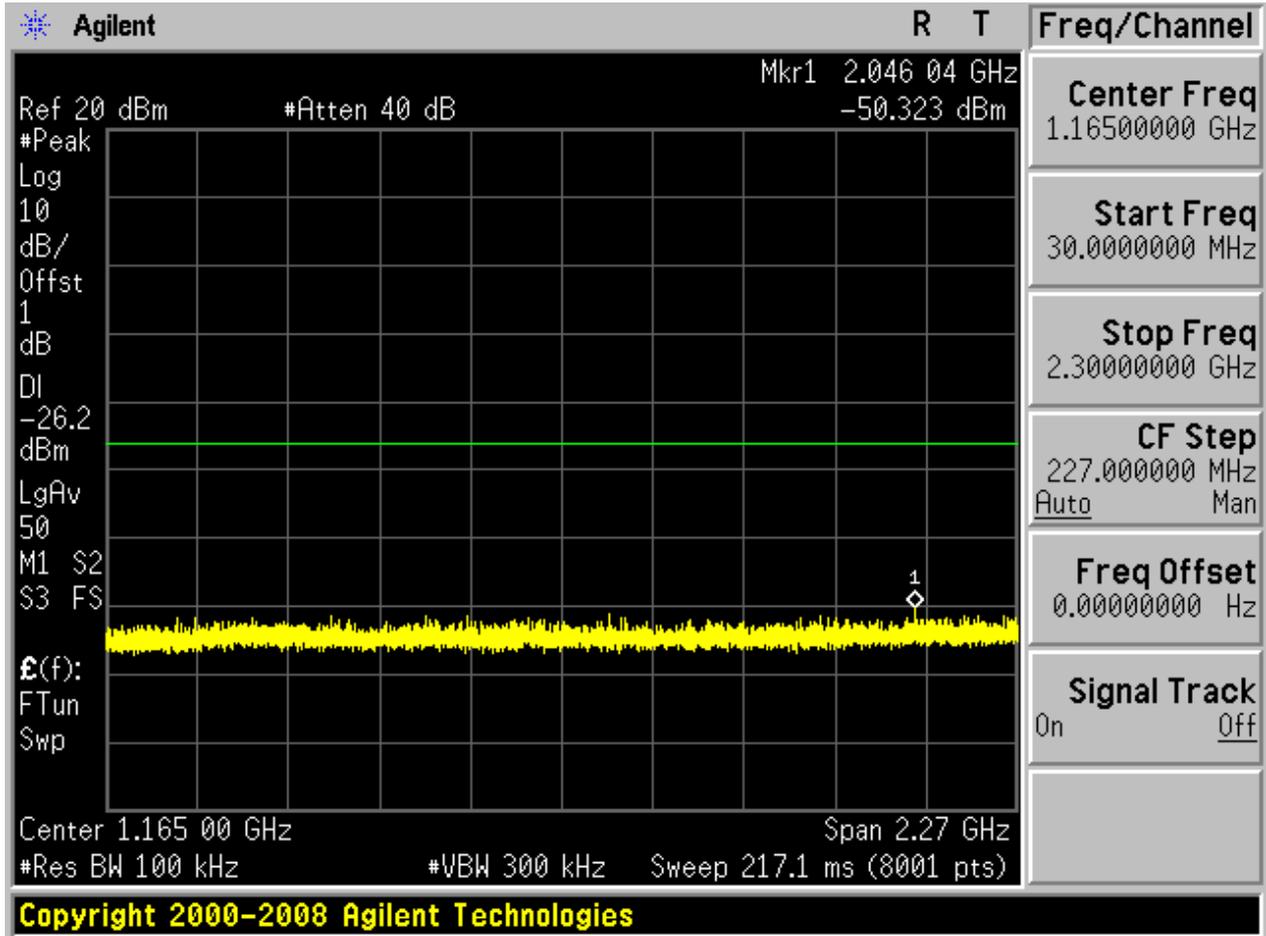


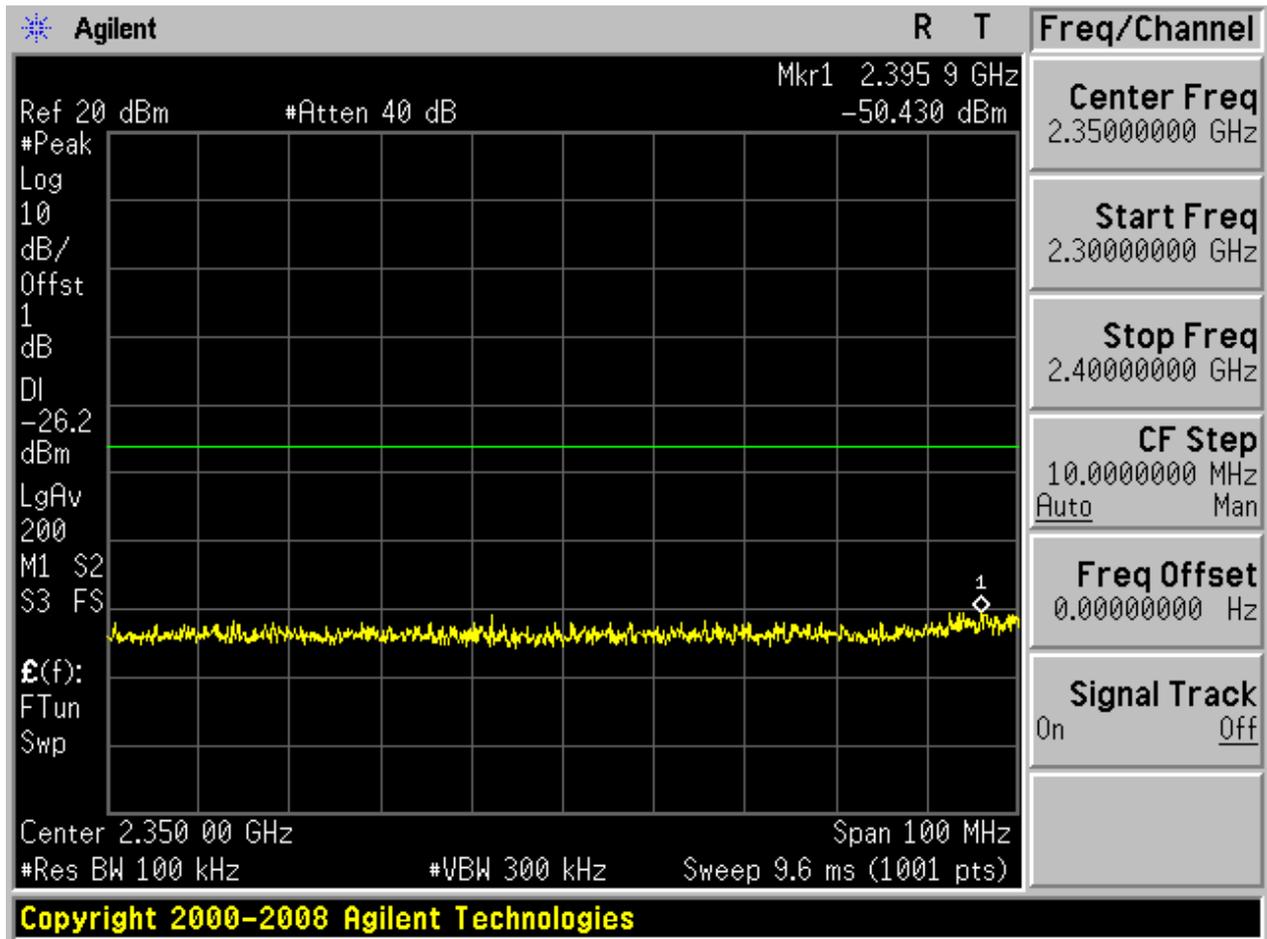


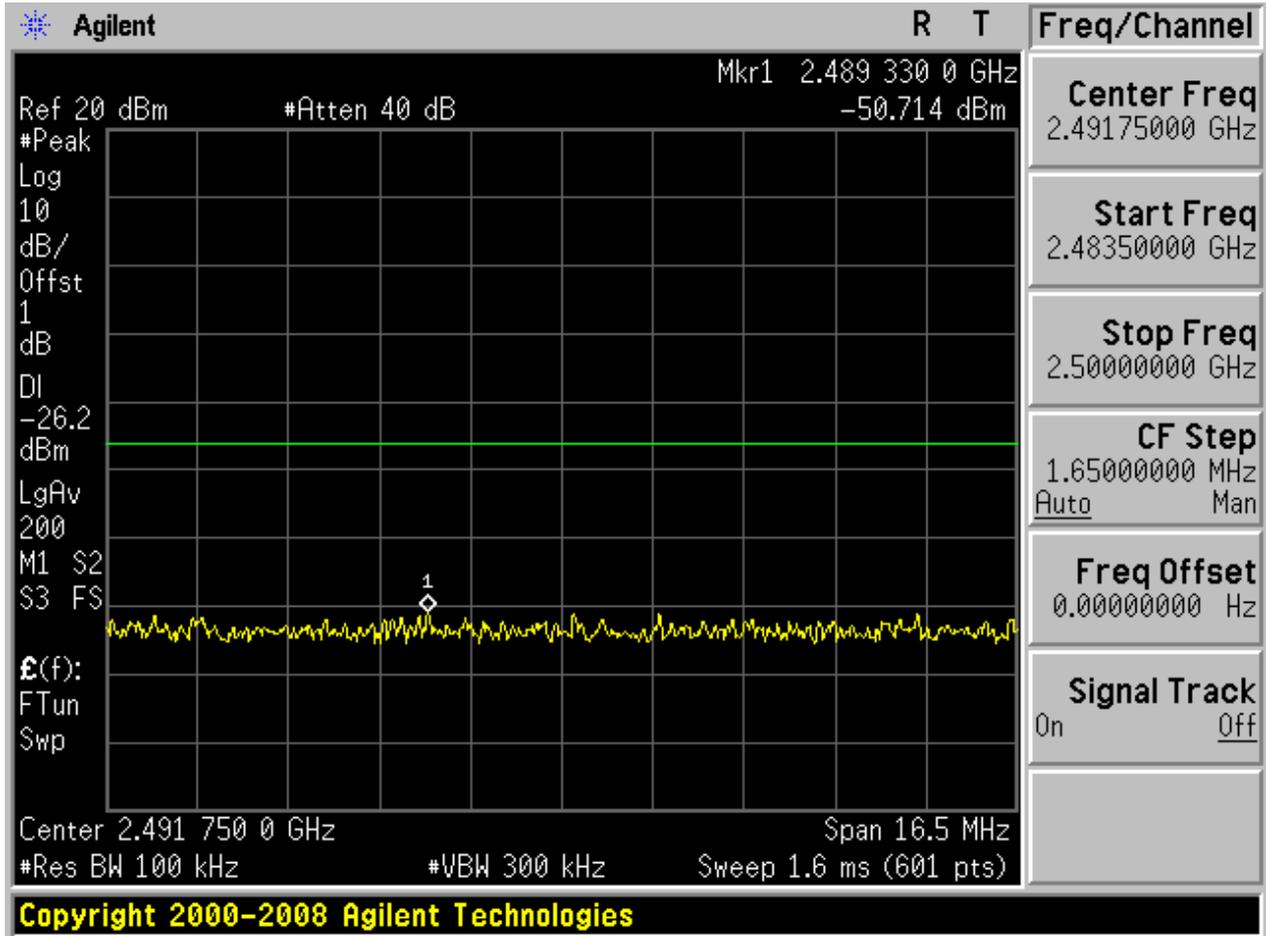
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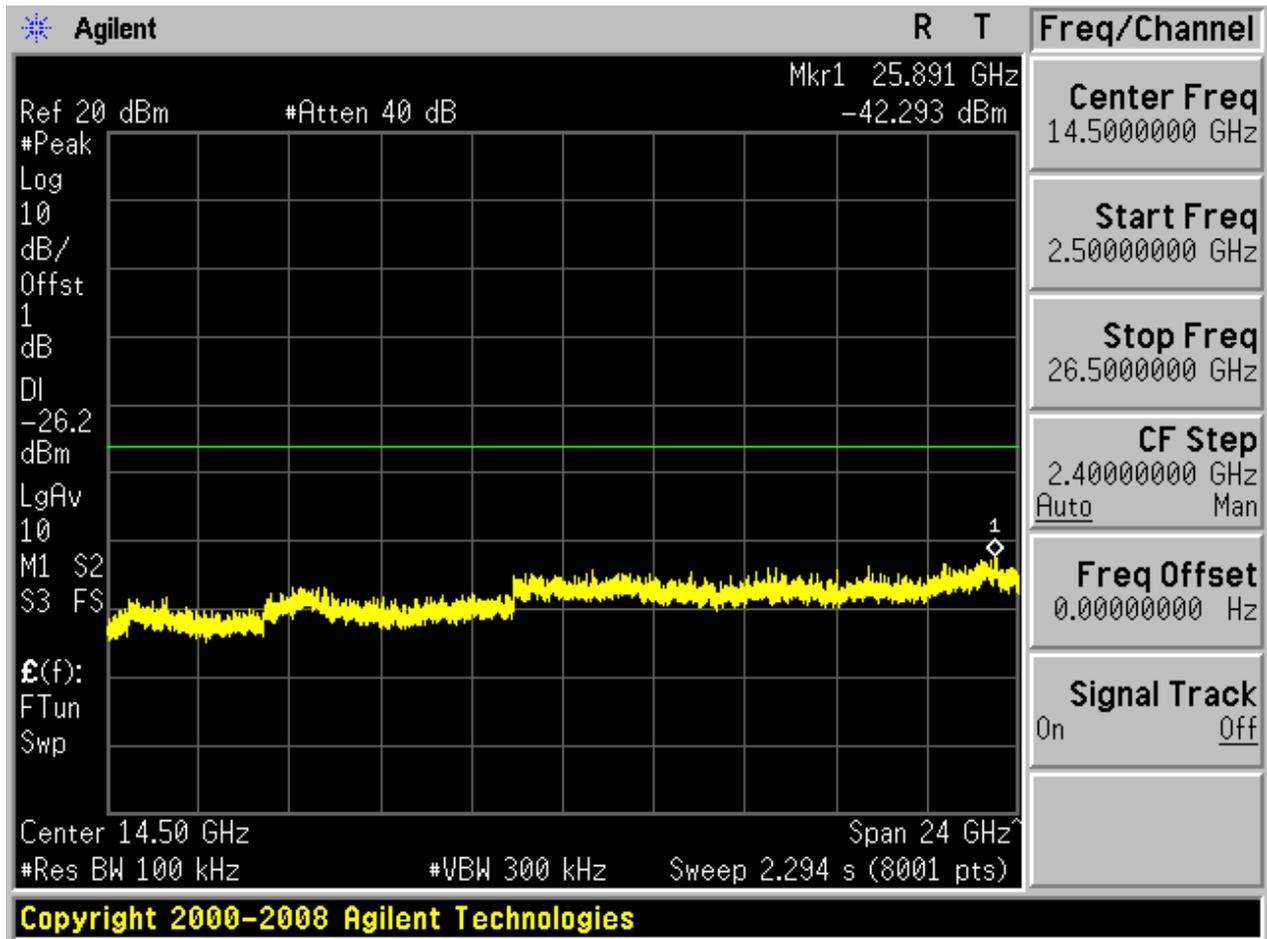






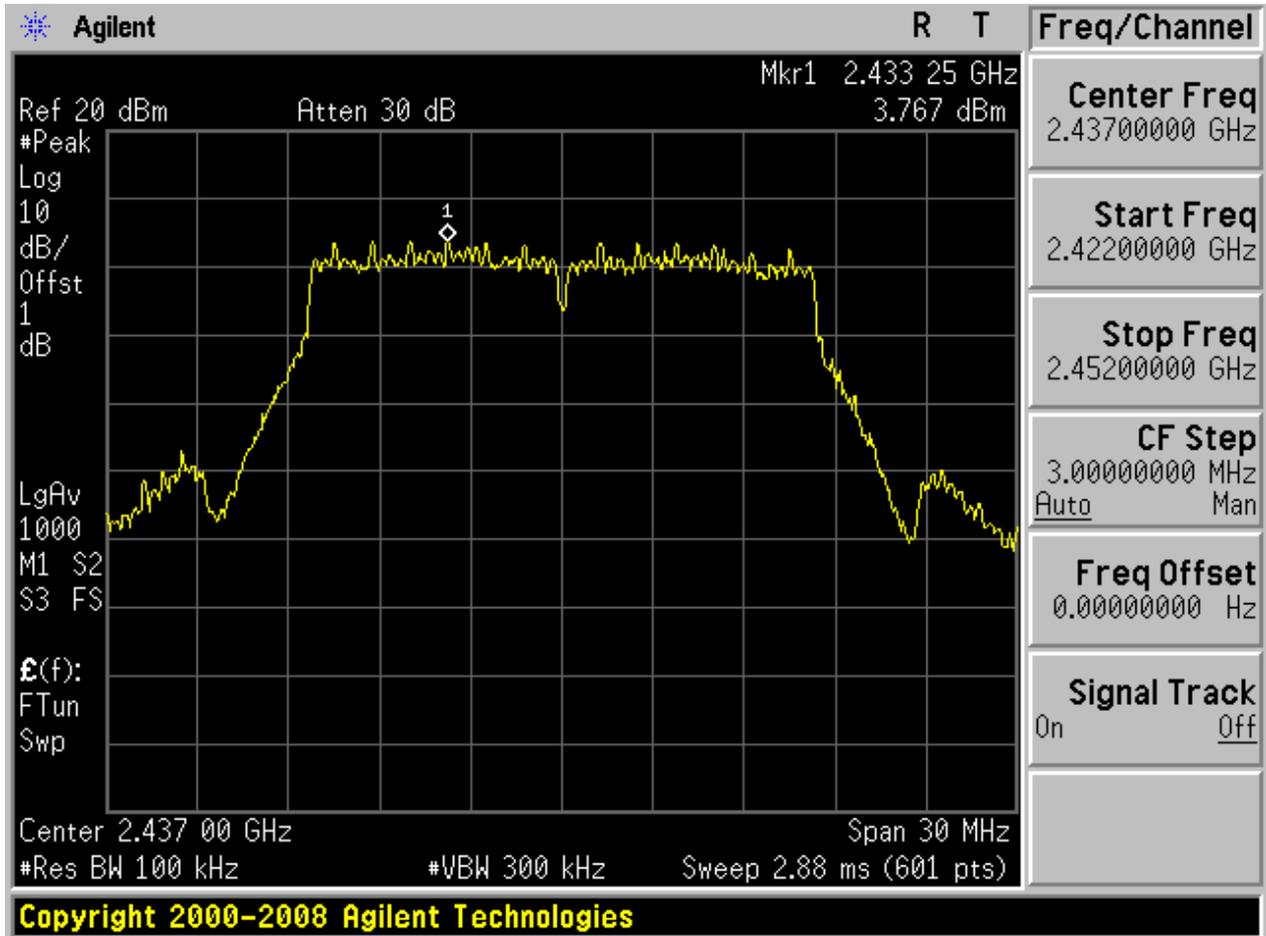






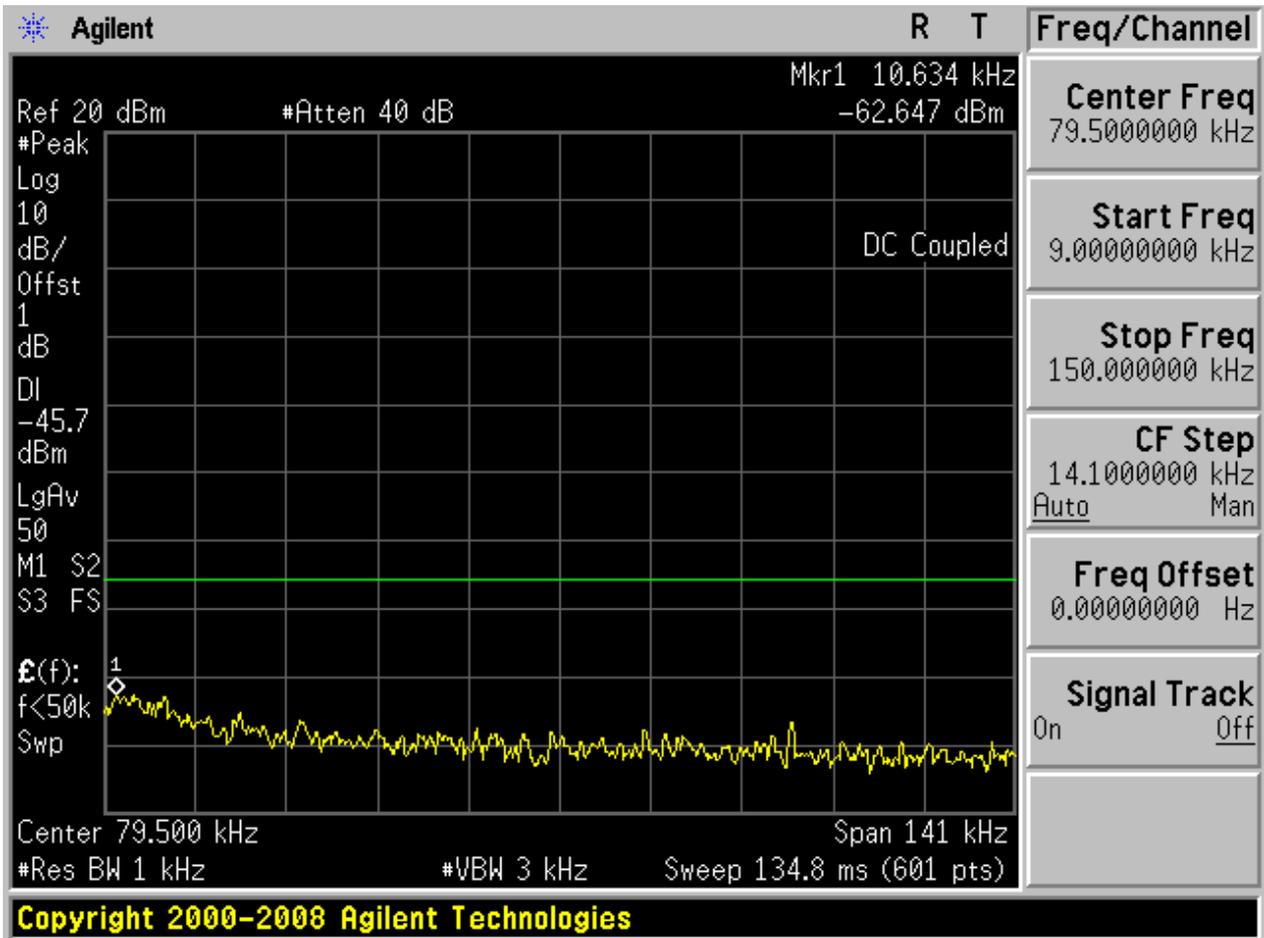
2.10 11G\_M@Ant 2

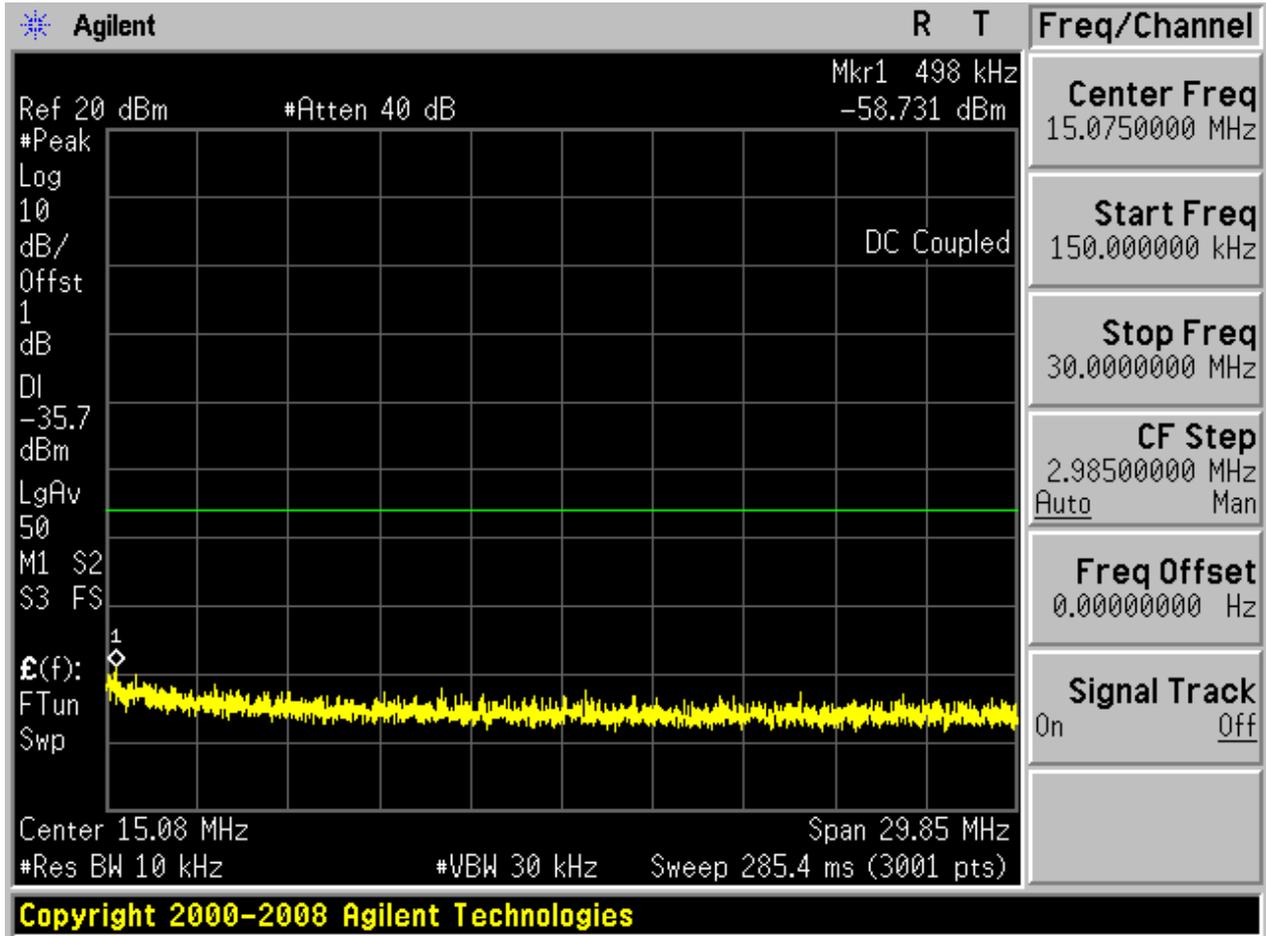
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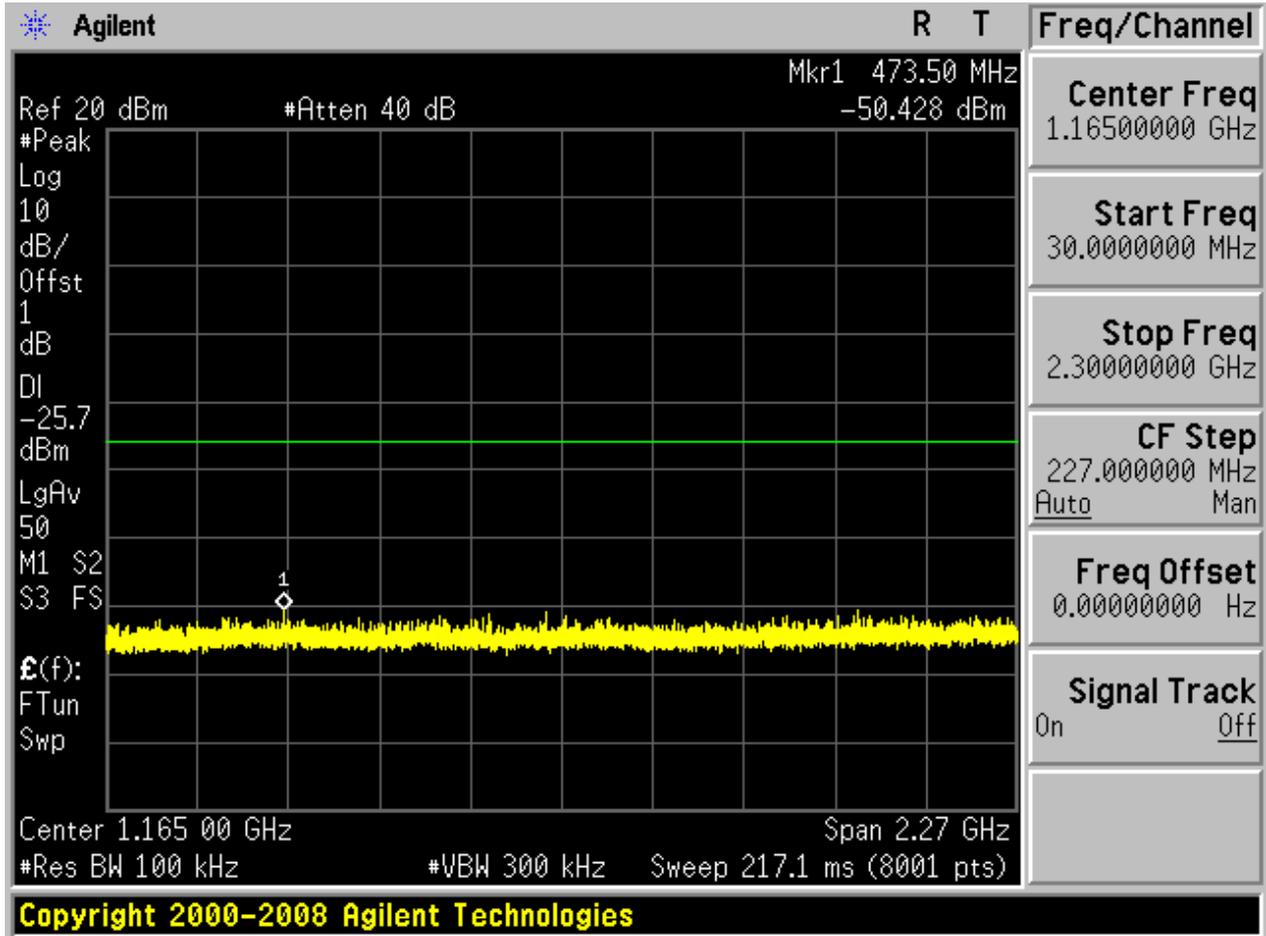


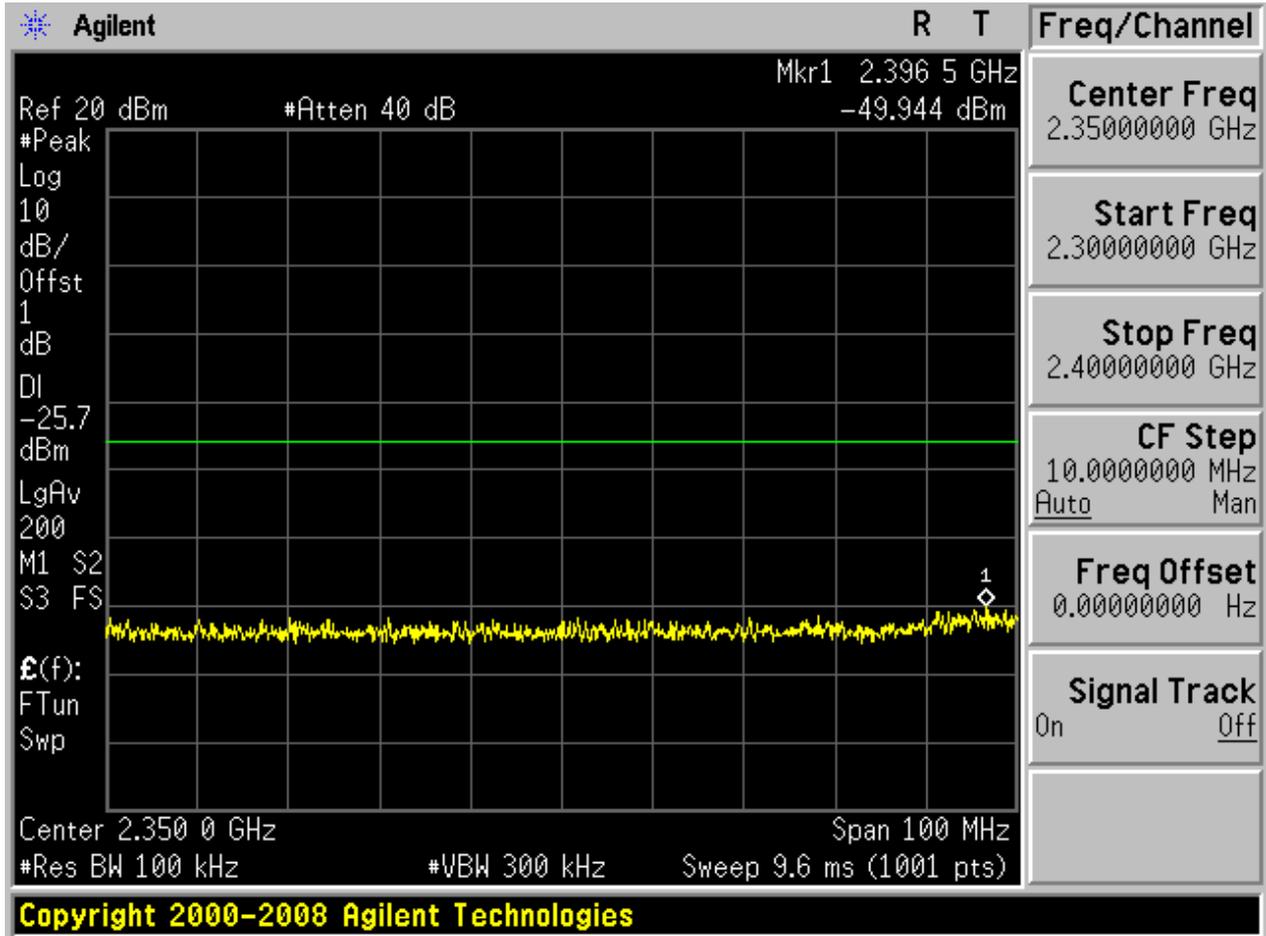


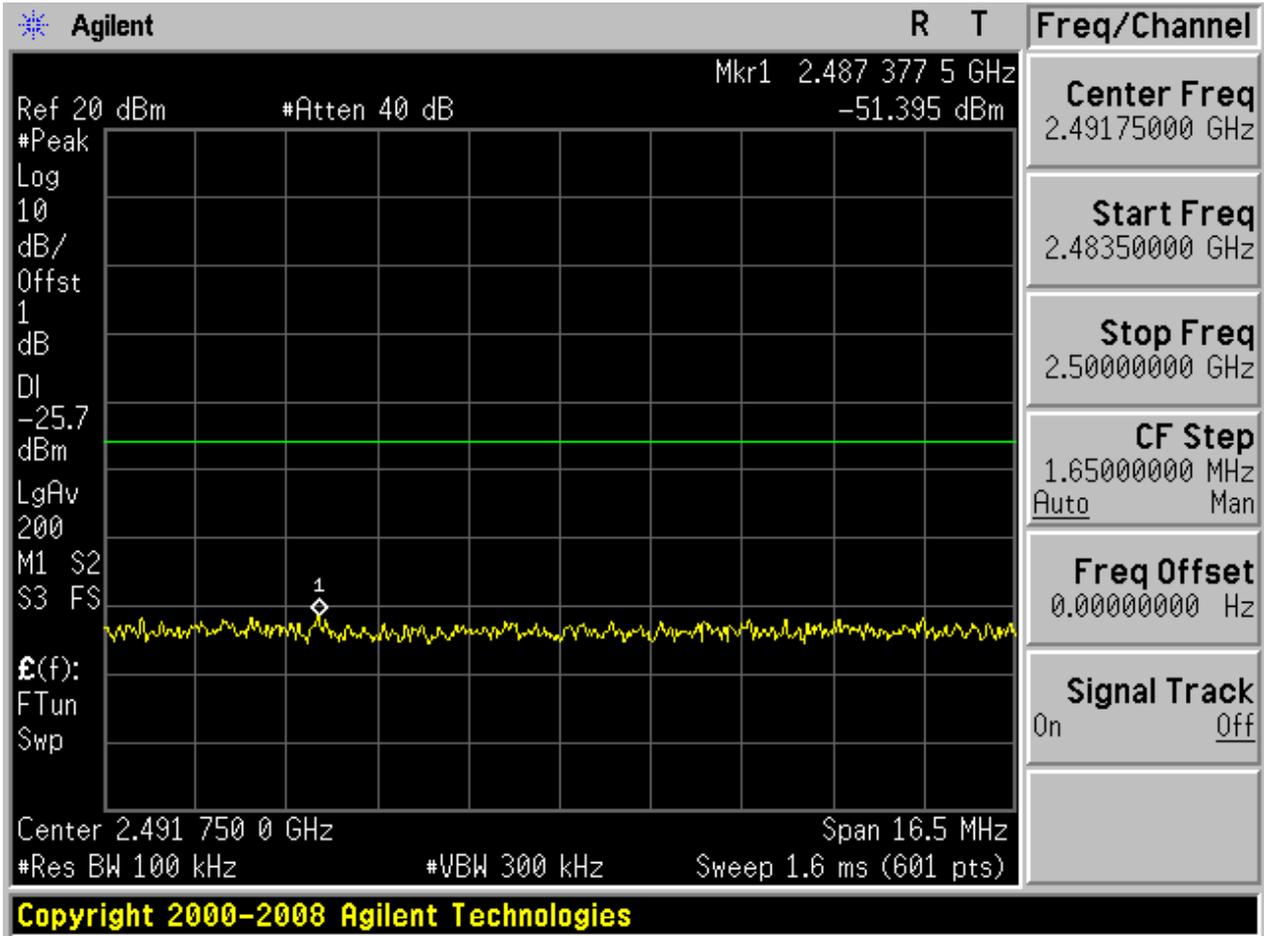
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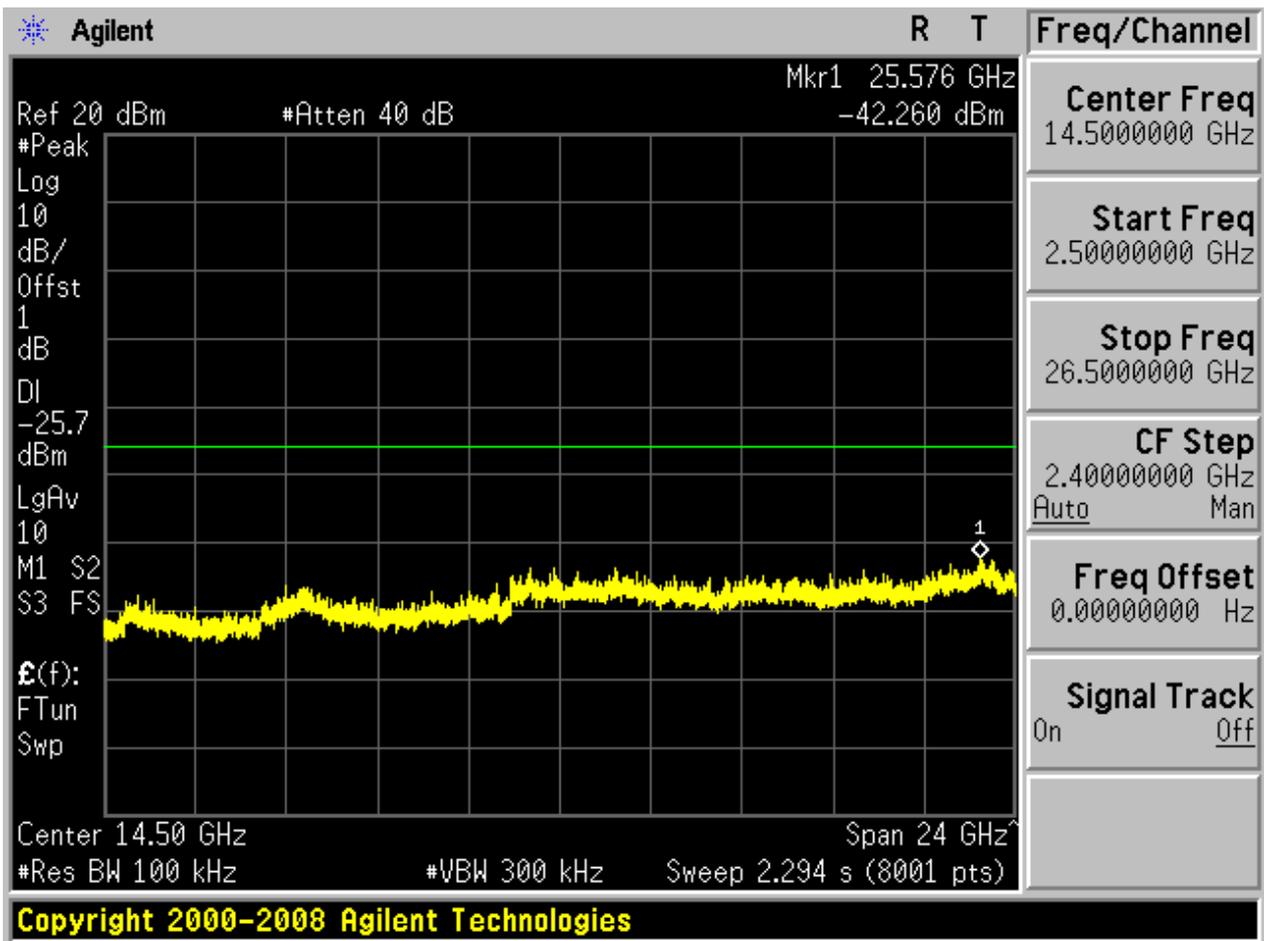








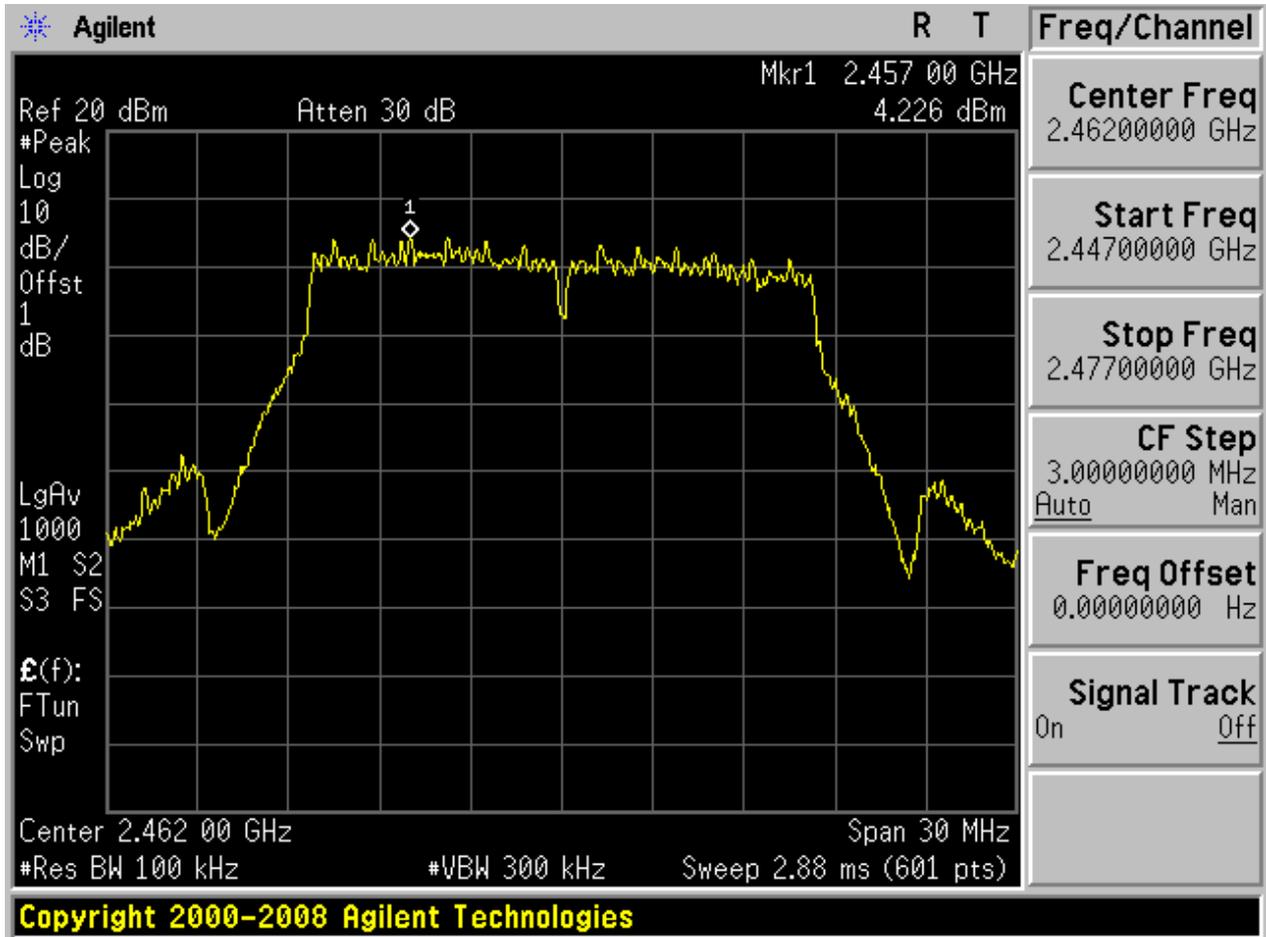






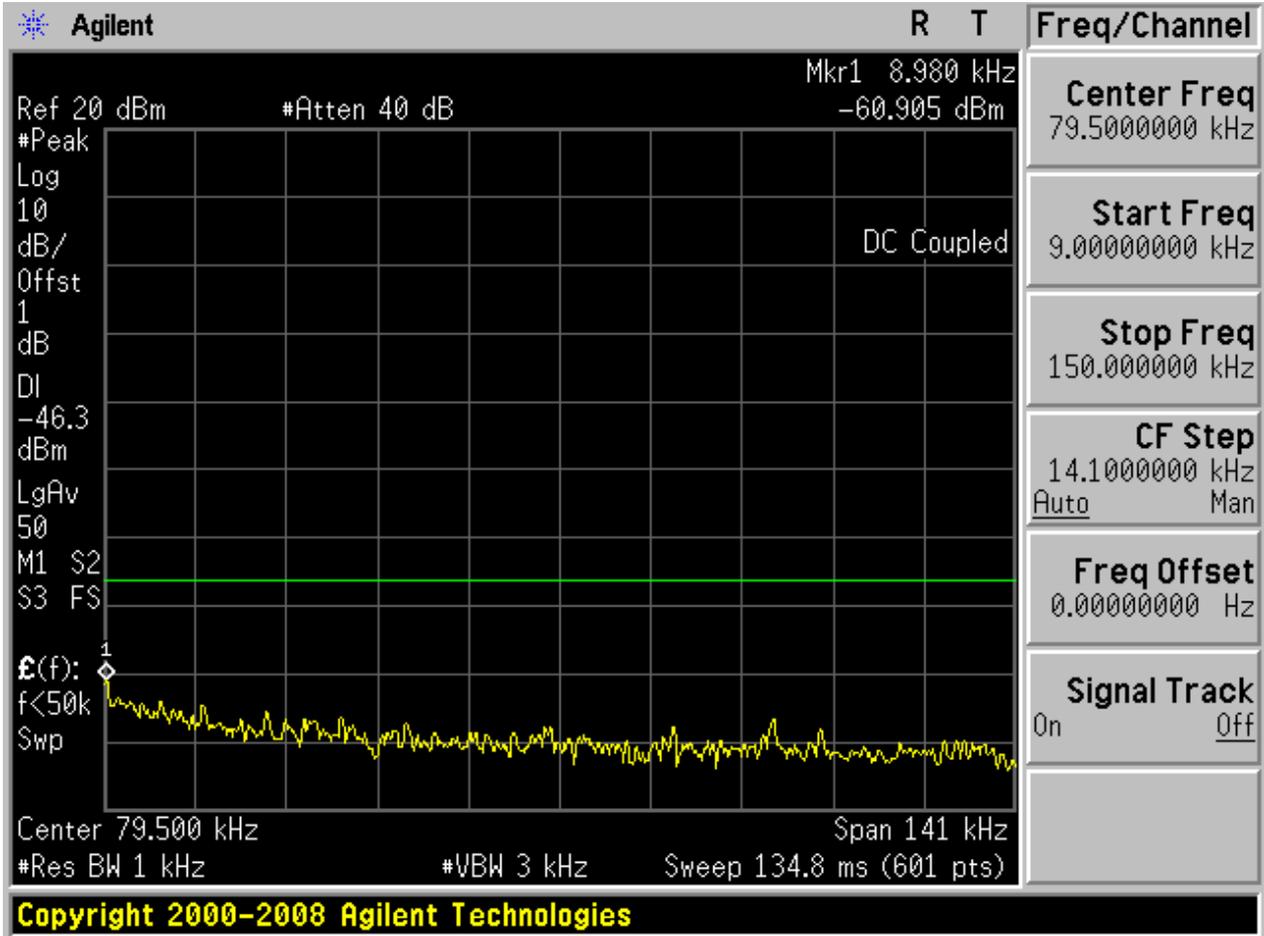
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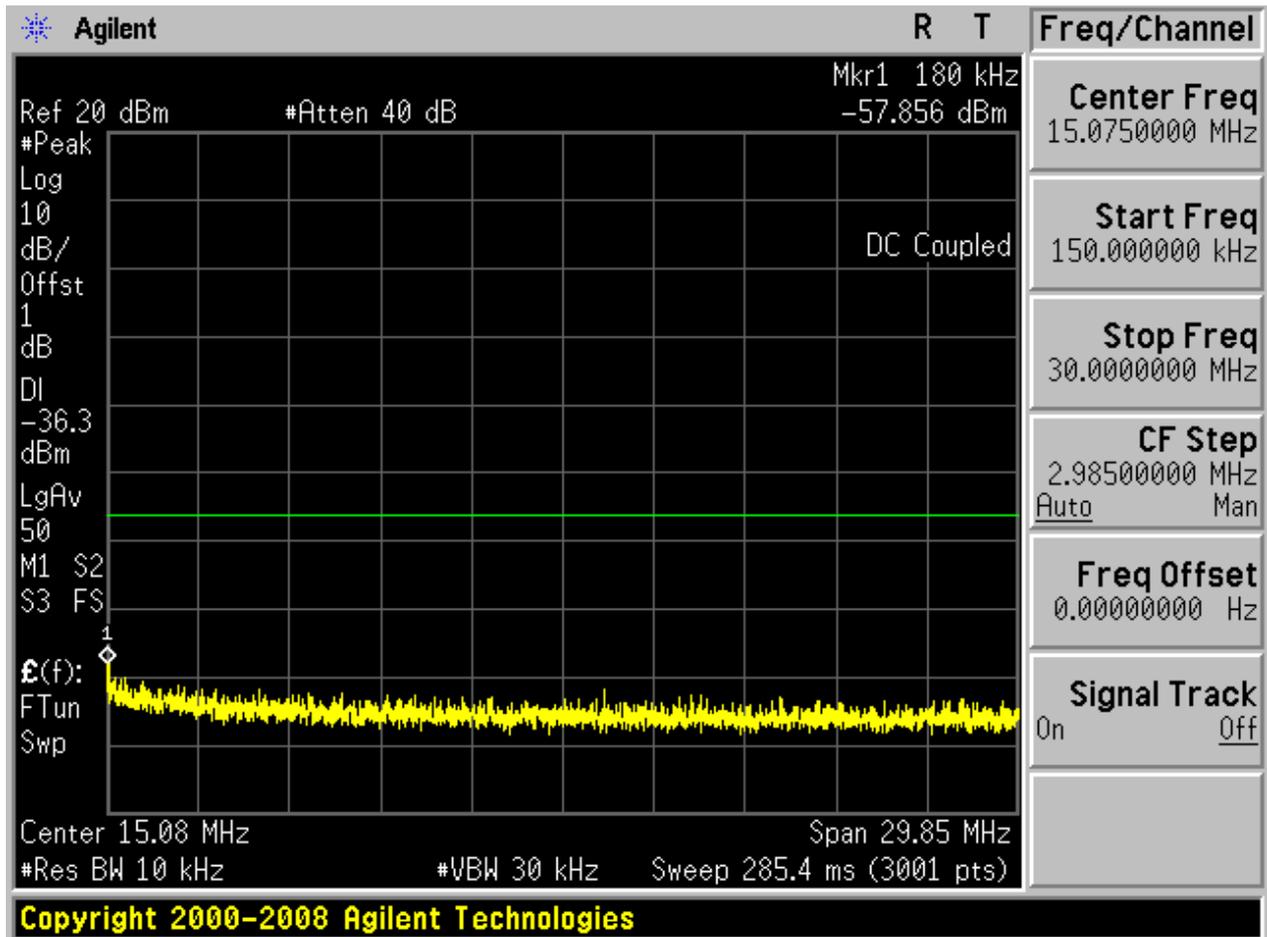
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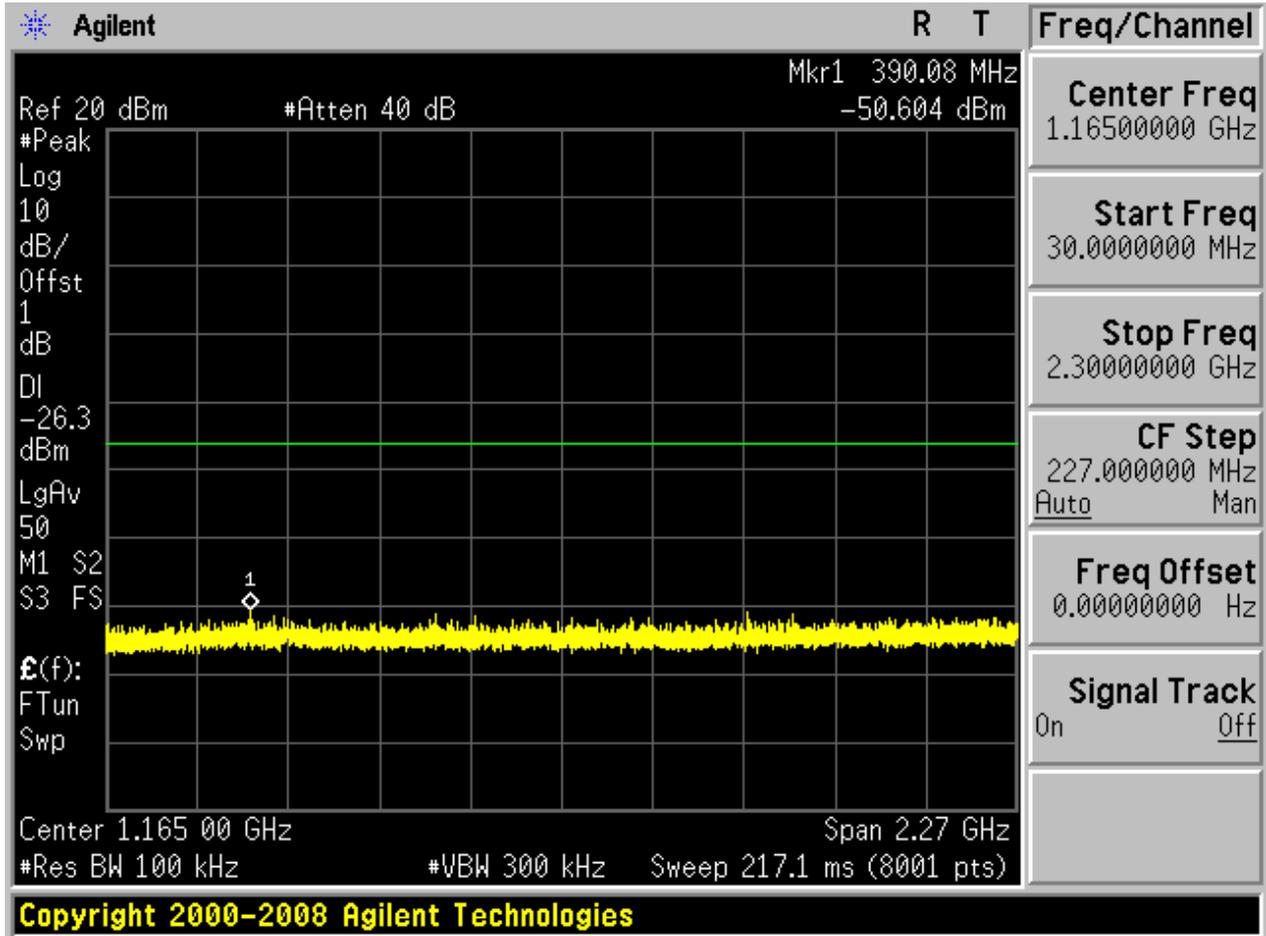


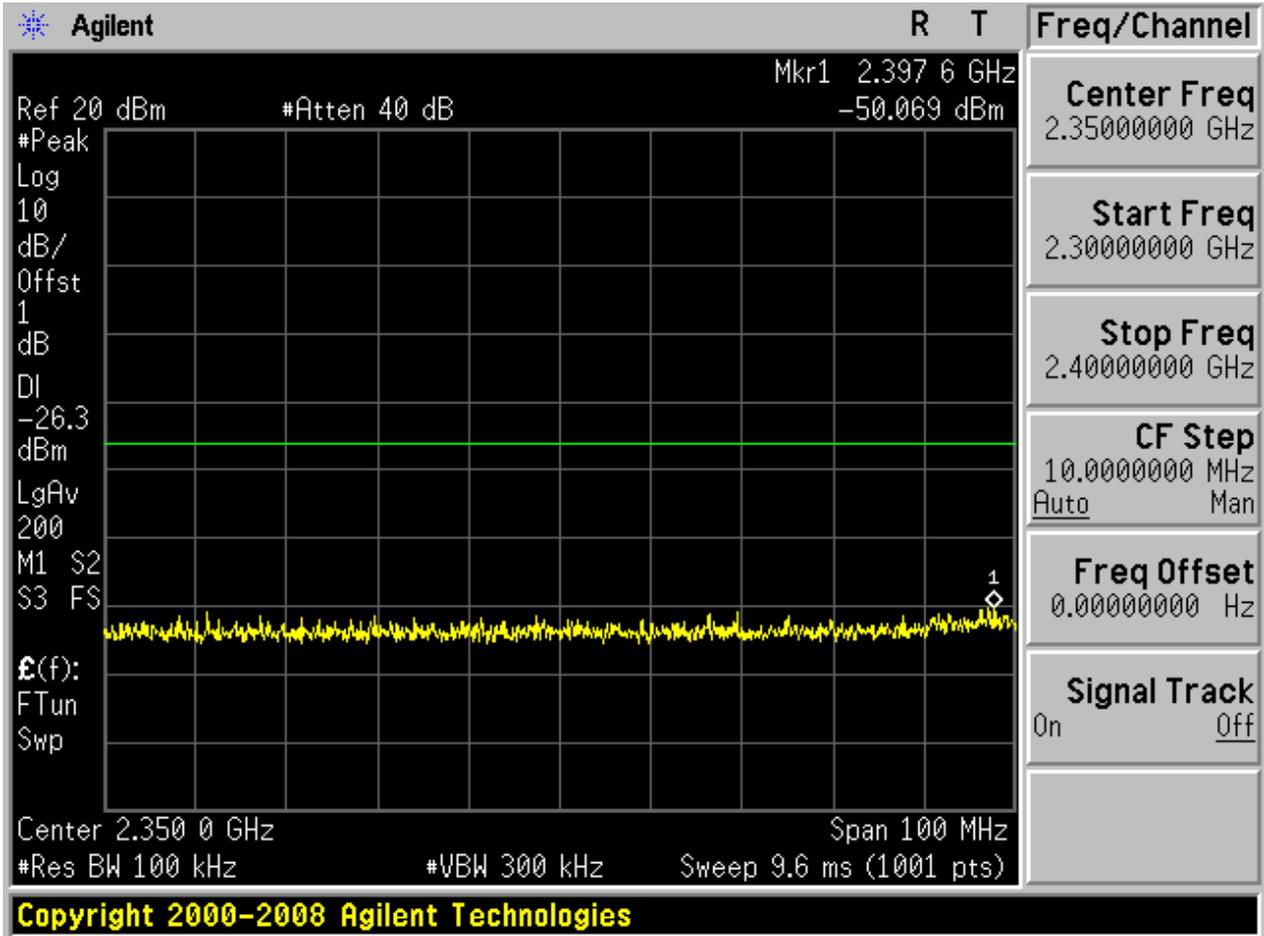


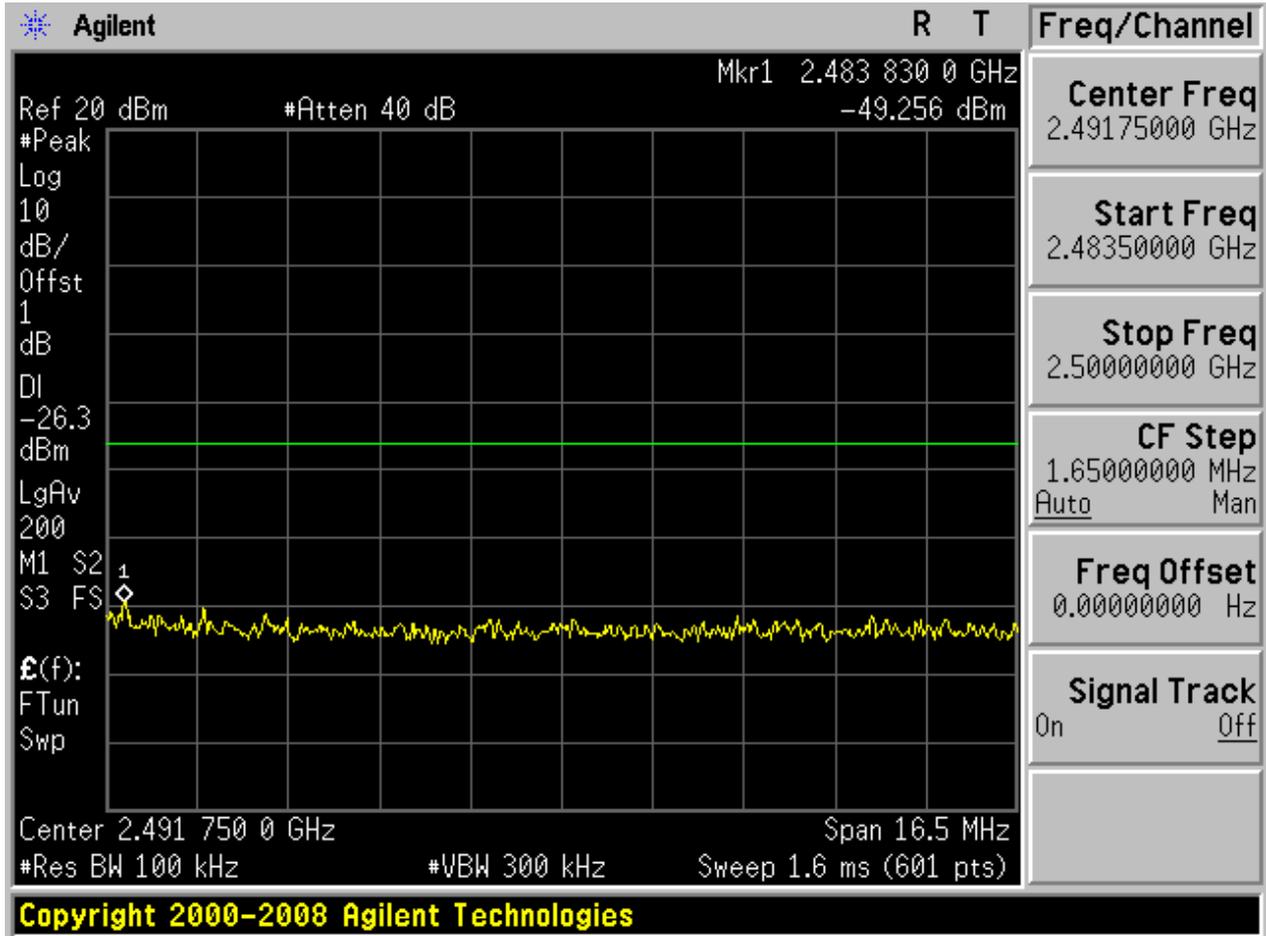
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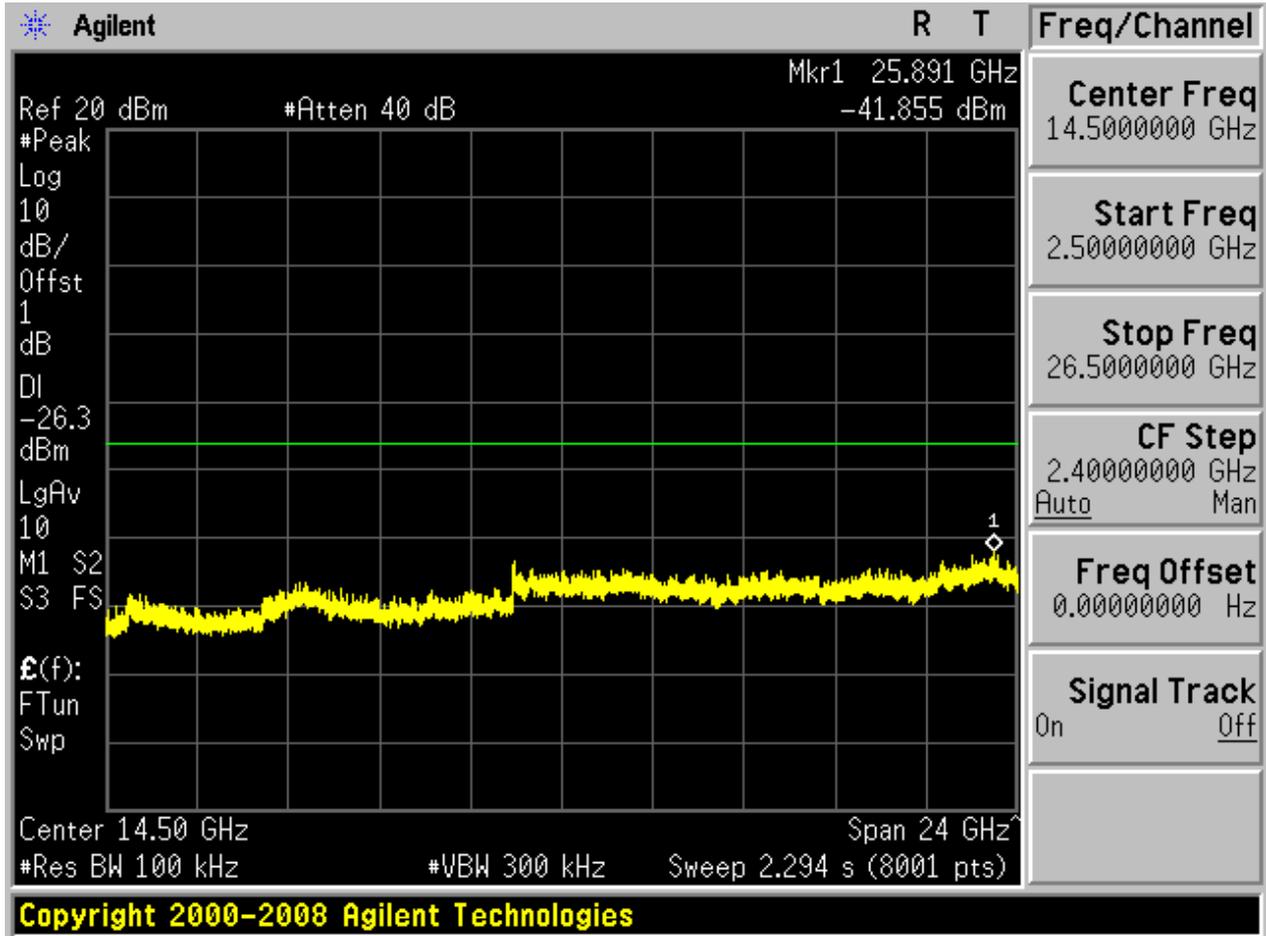








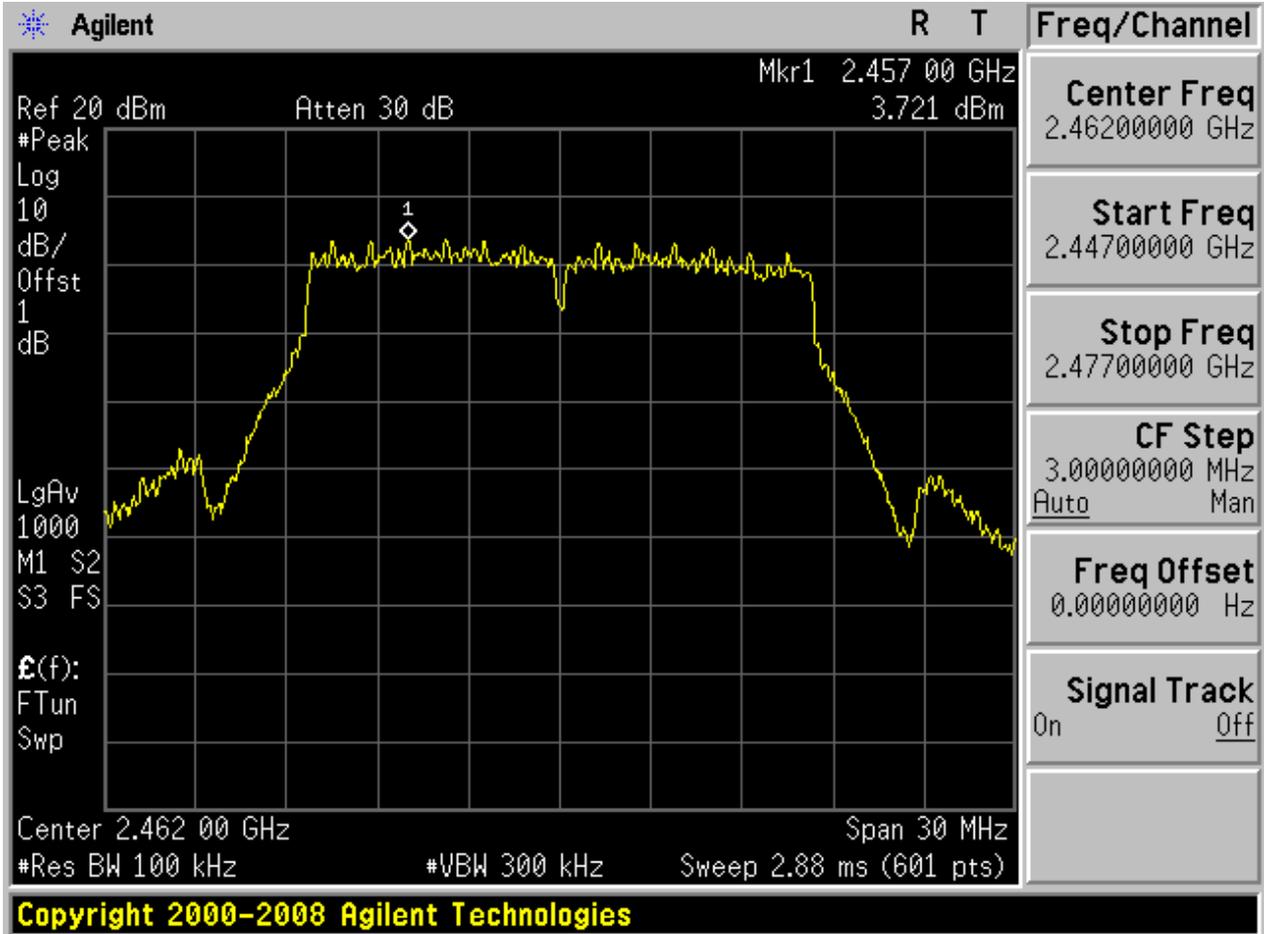






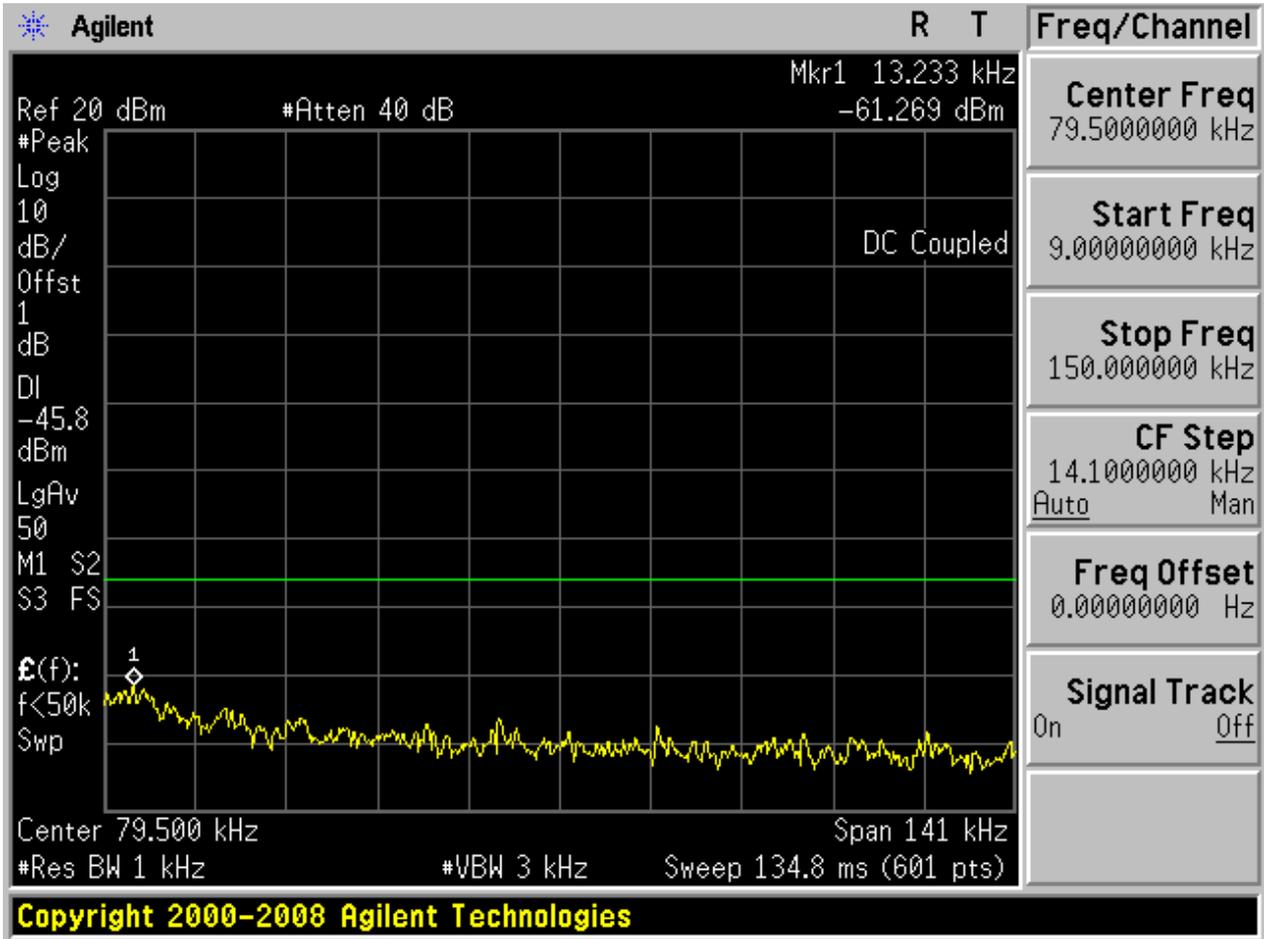
2.12 11G\_H@Ant 2

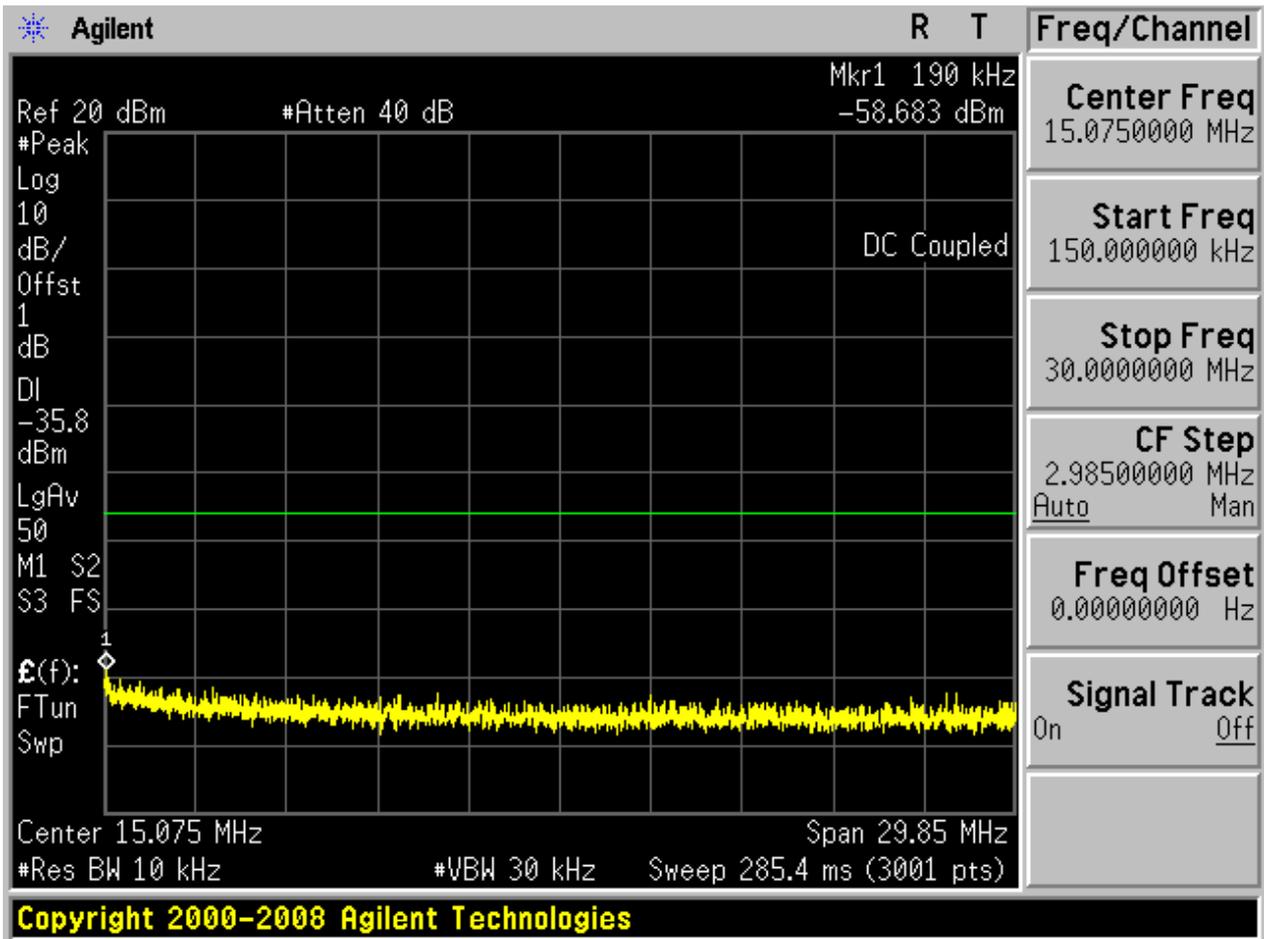
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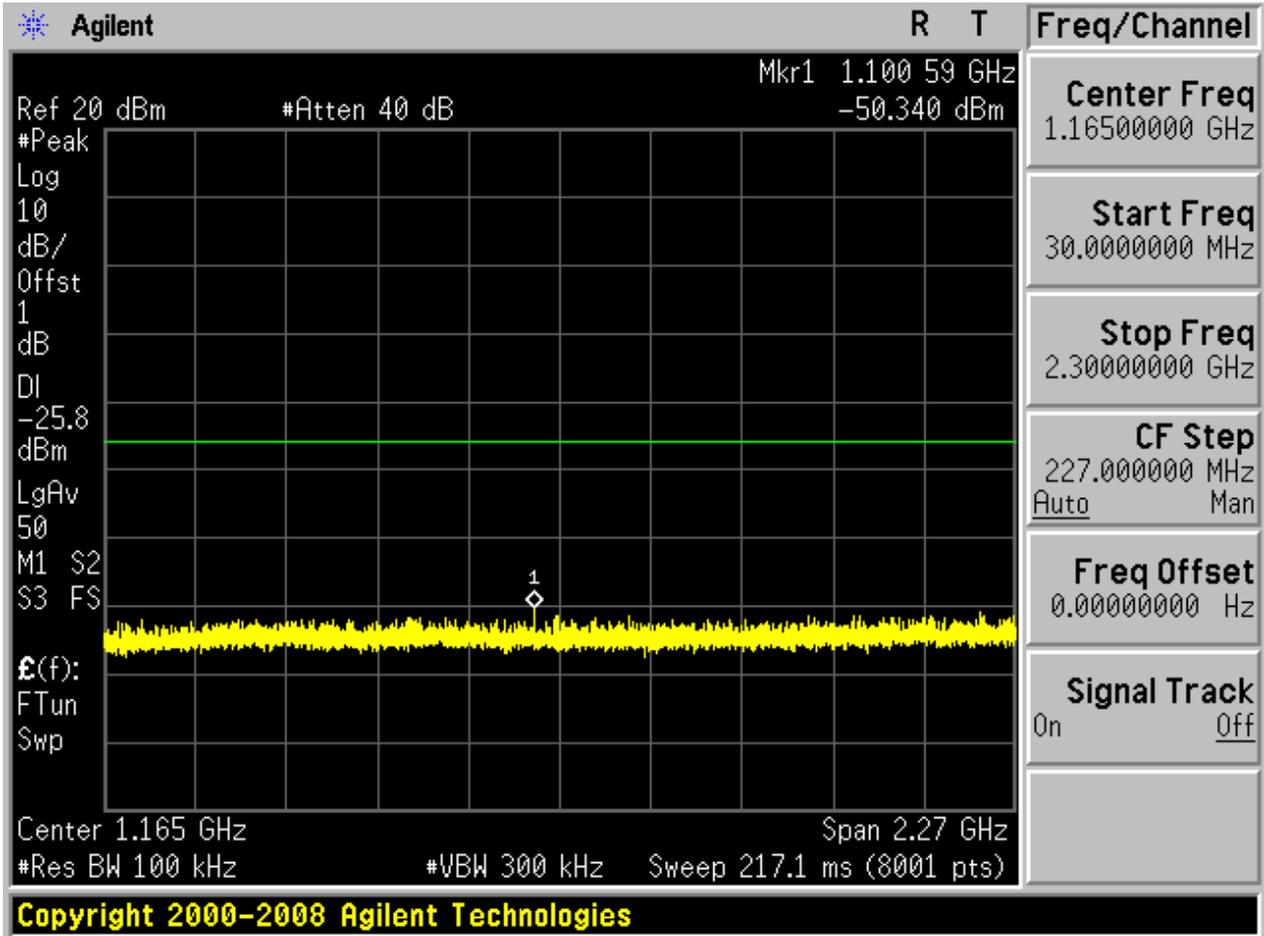


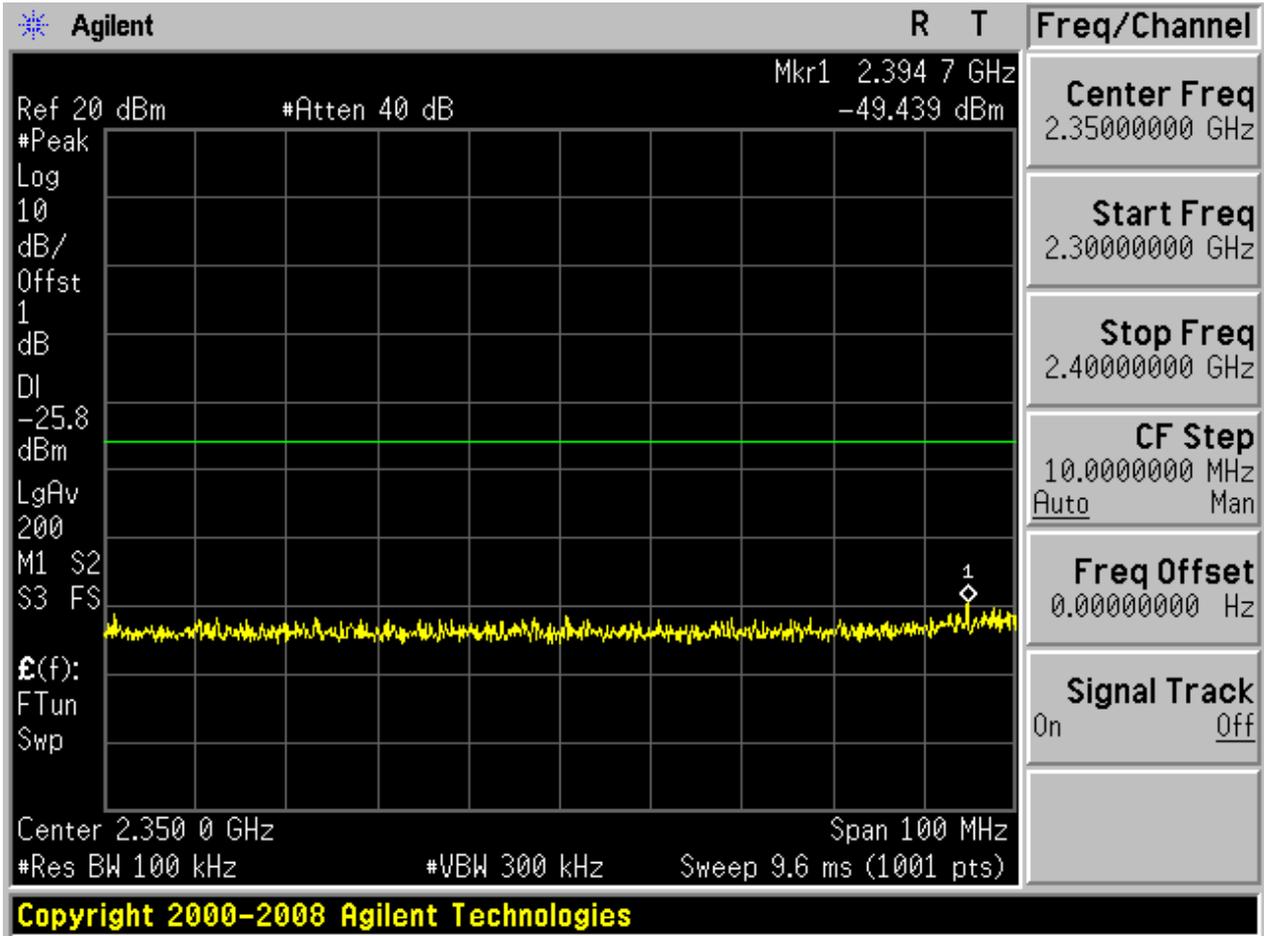


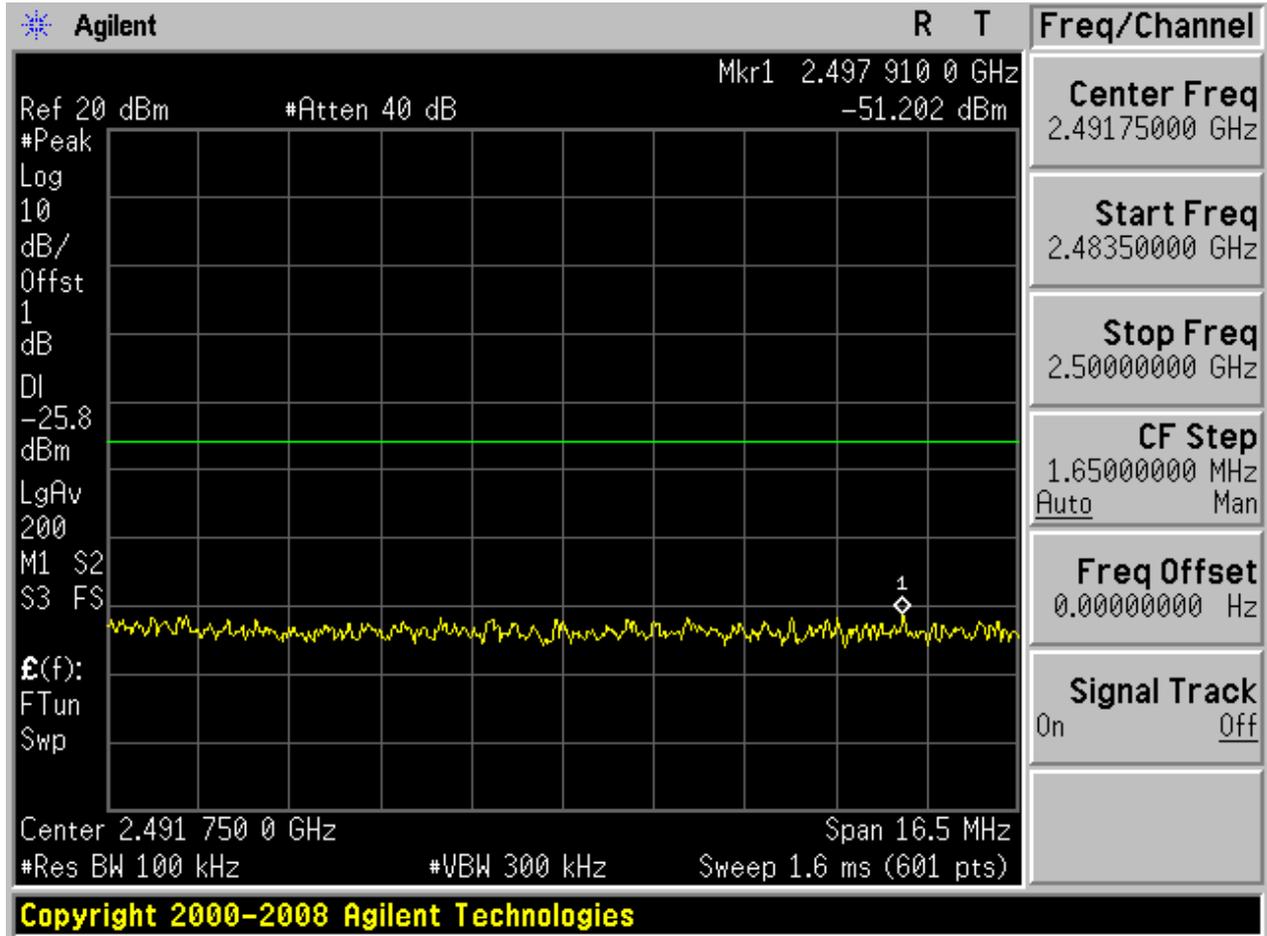
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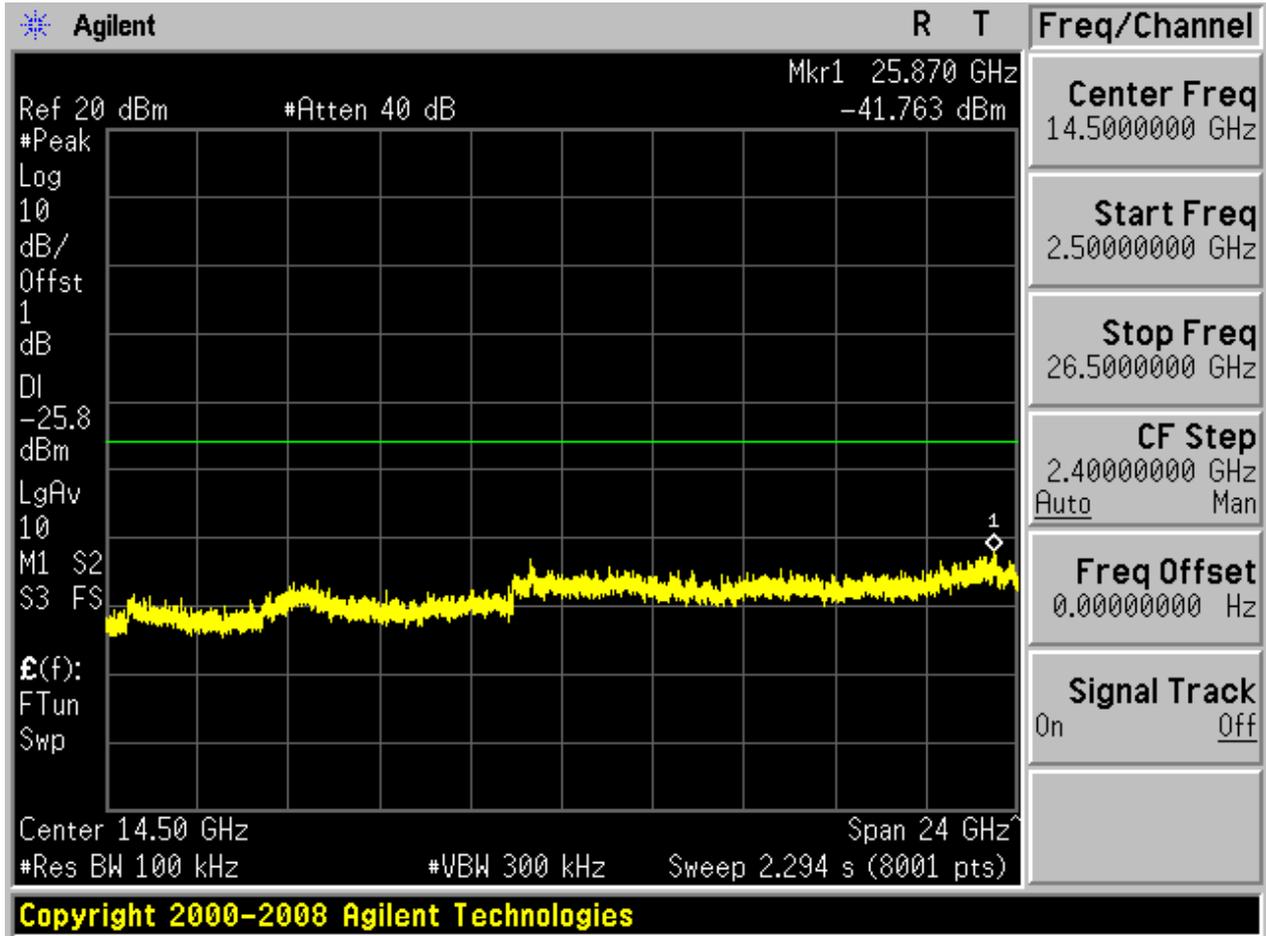








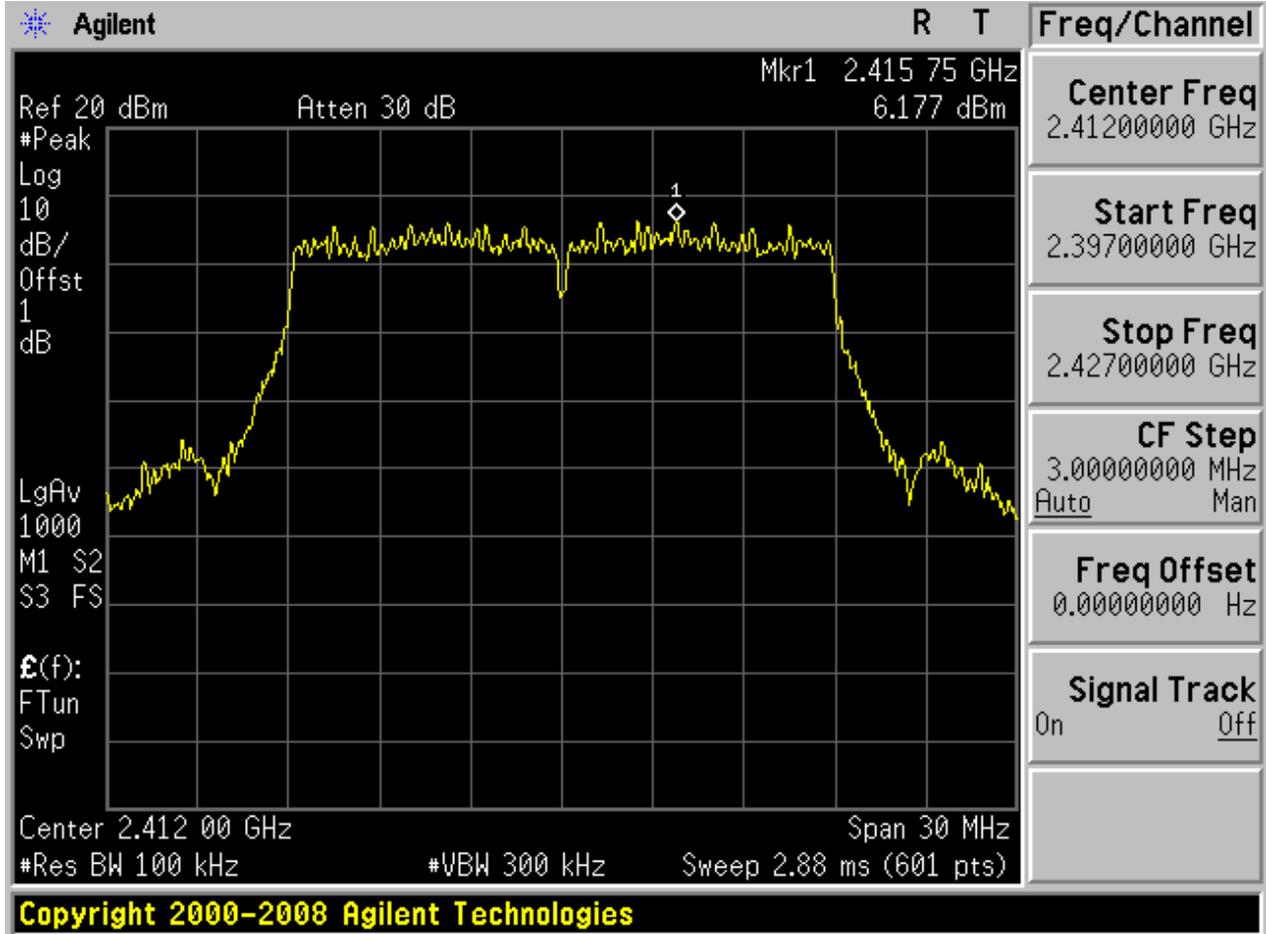






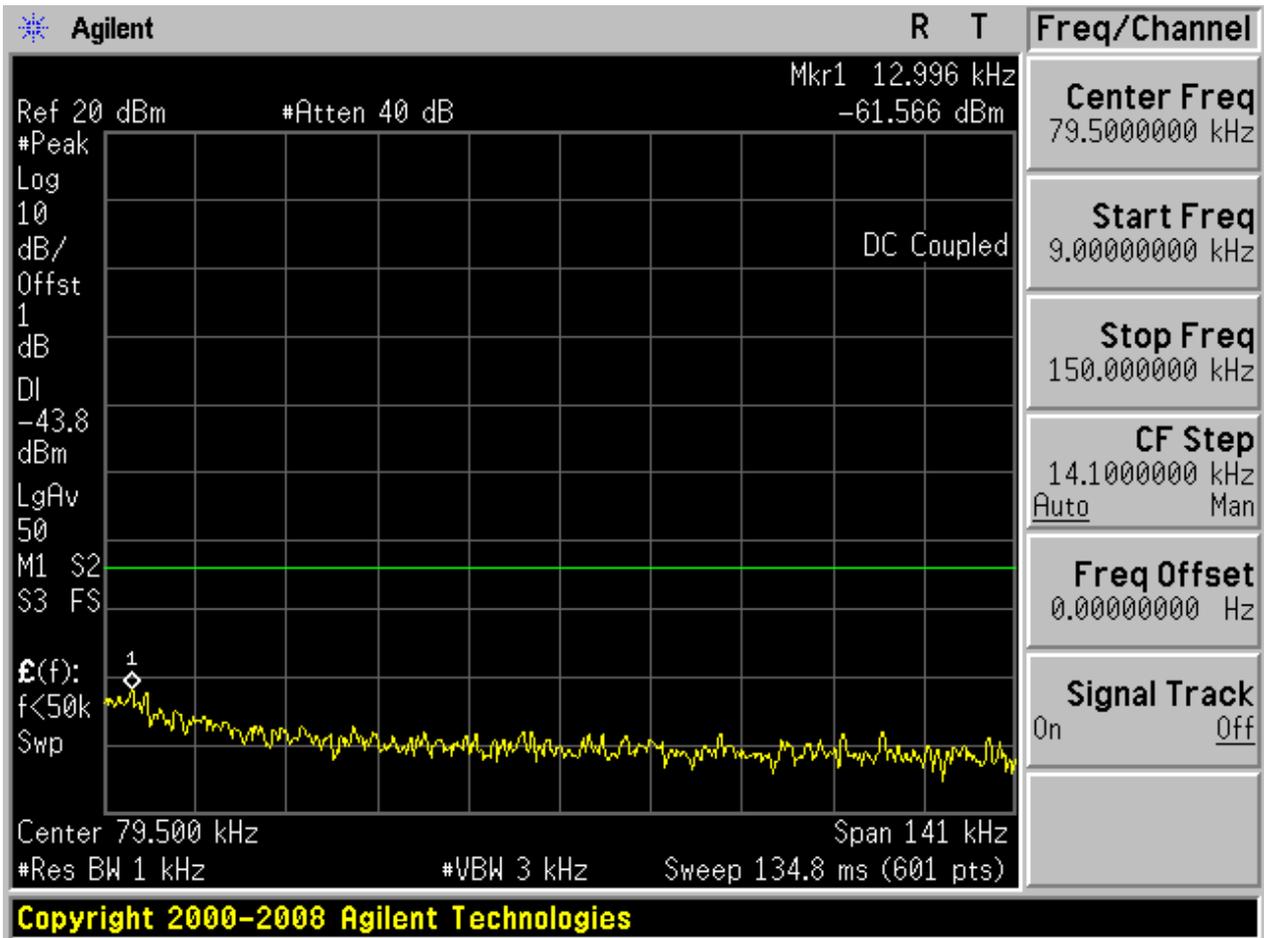
2.13 11N20\_L@Ant 1

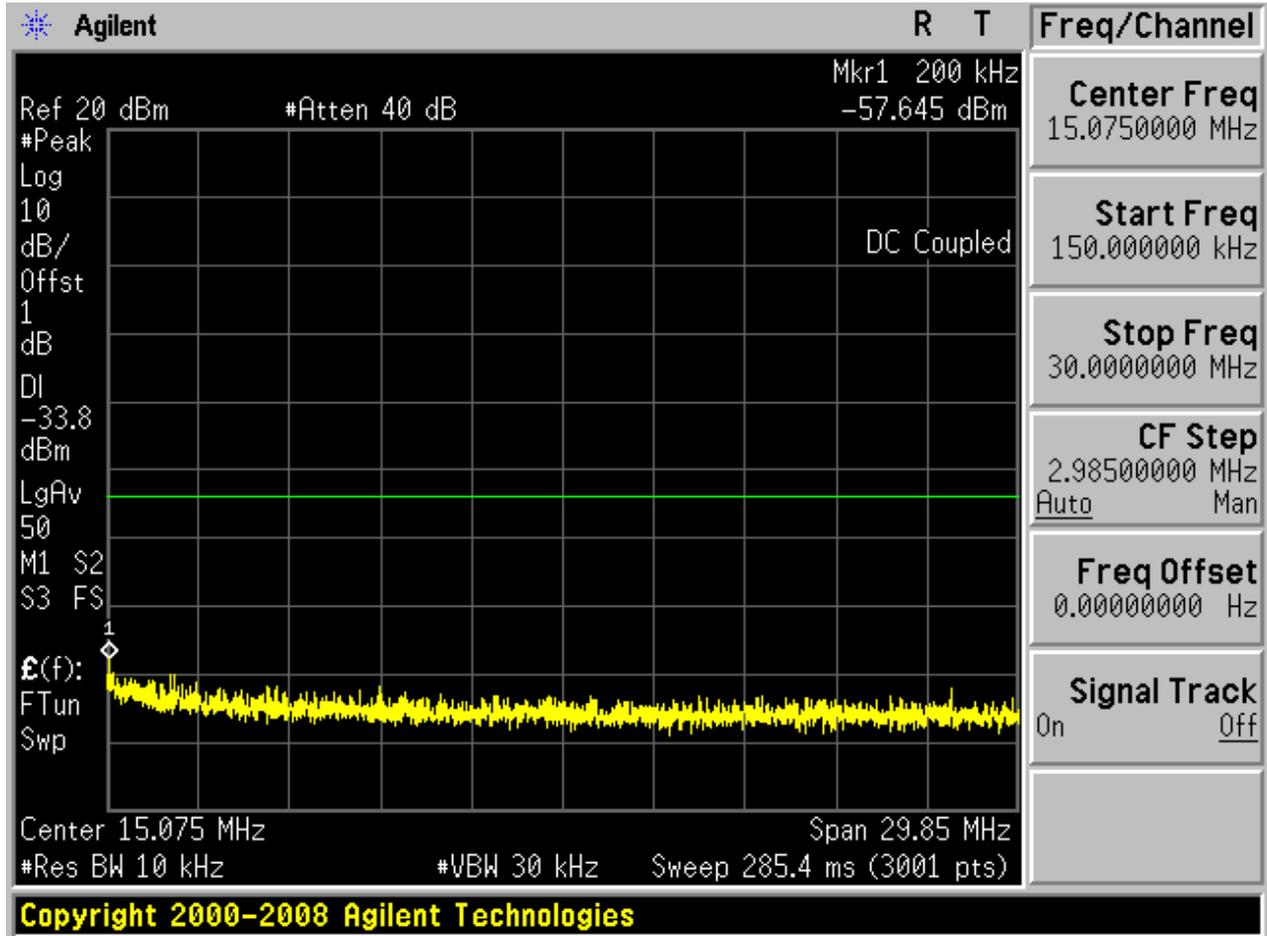
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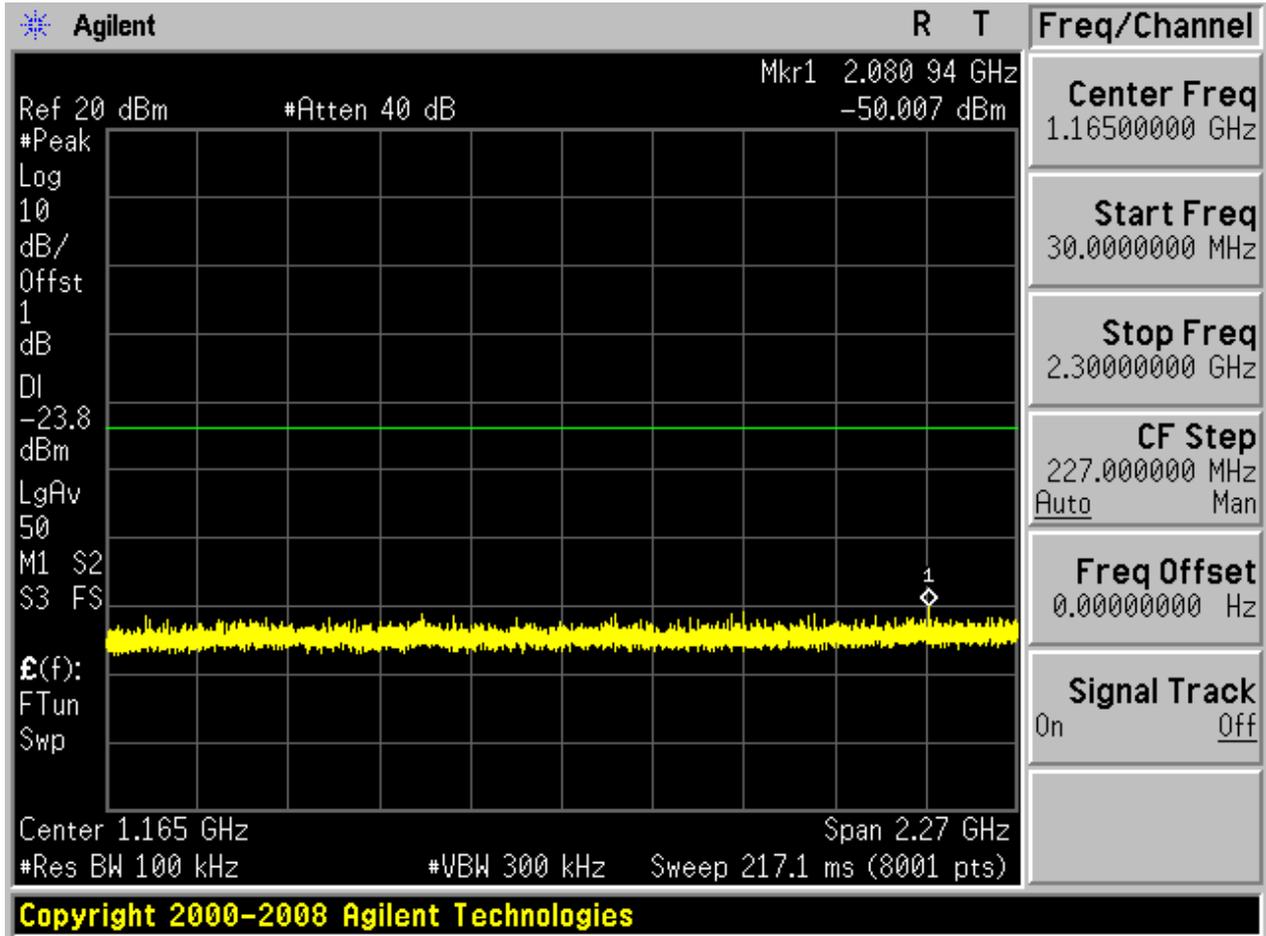


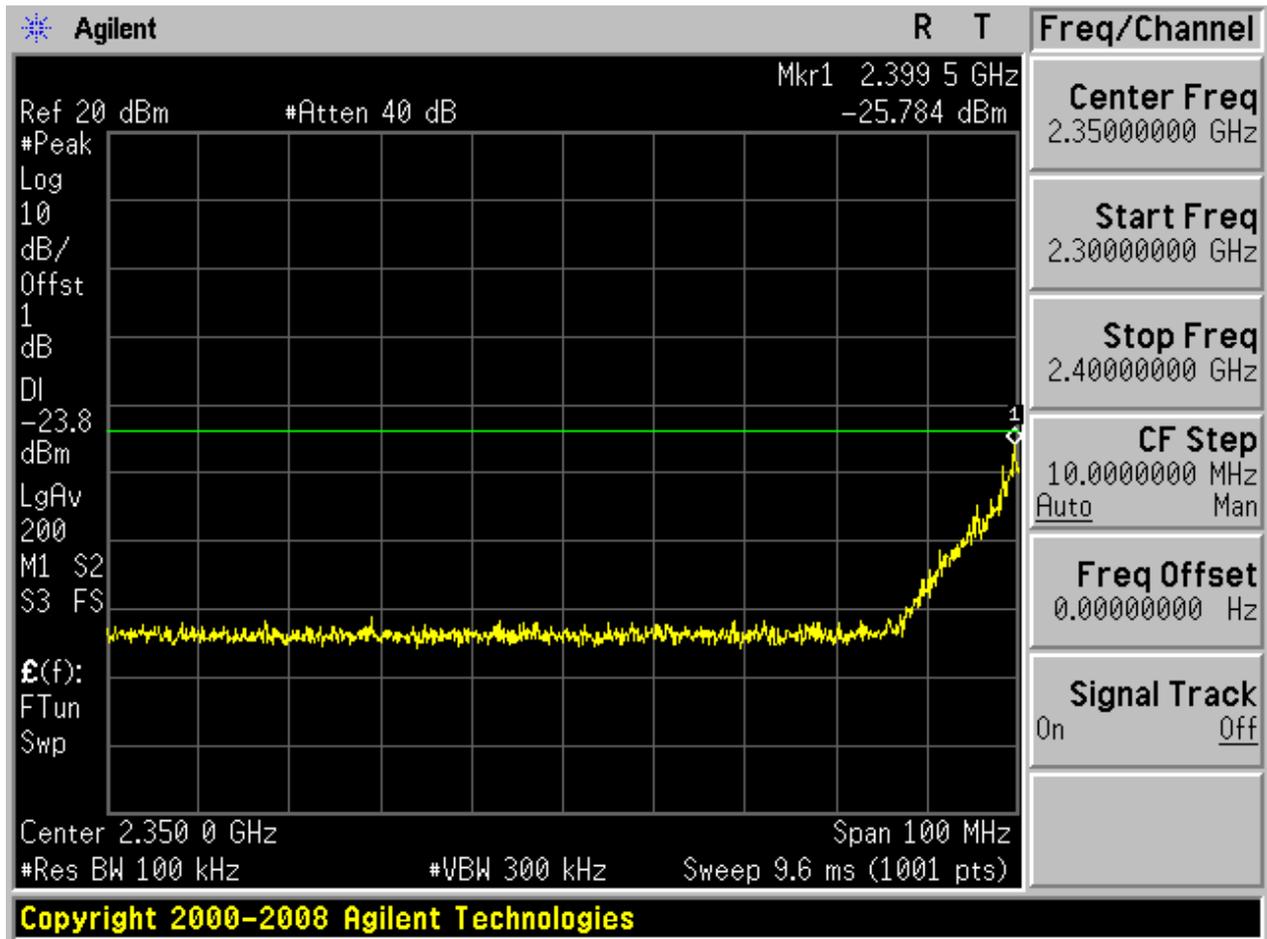


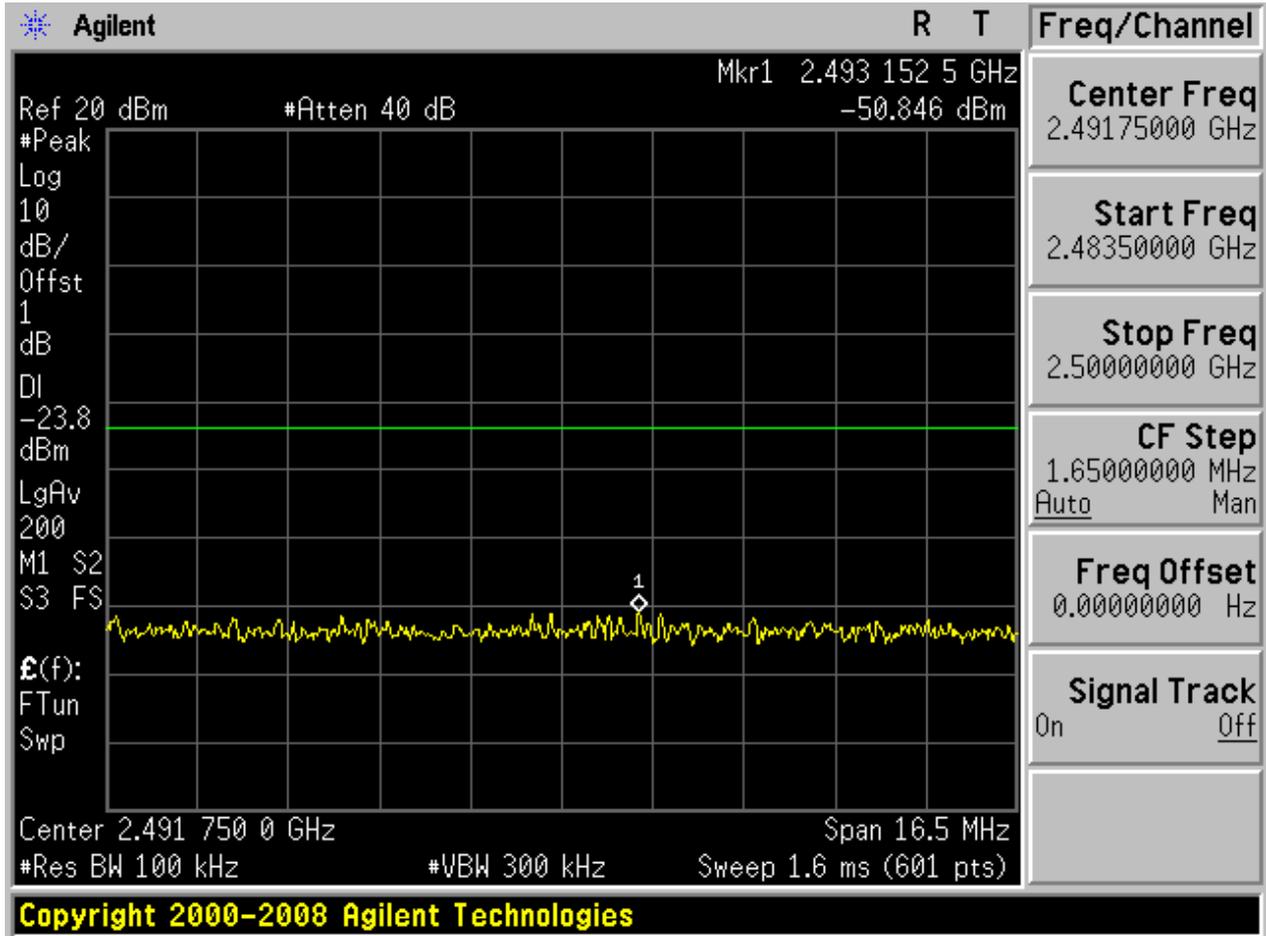
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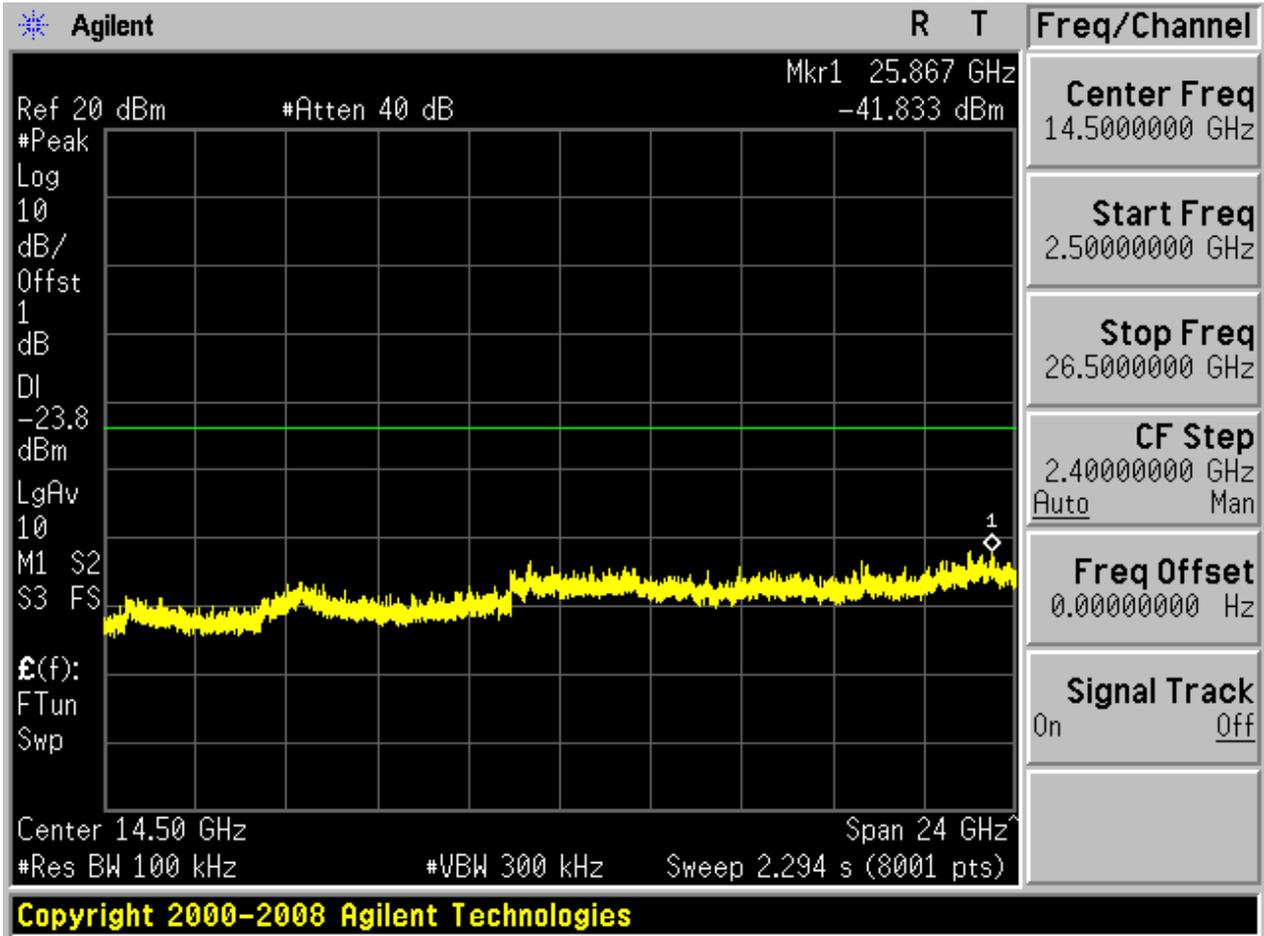






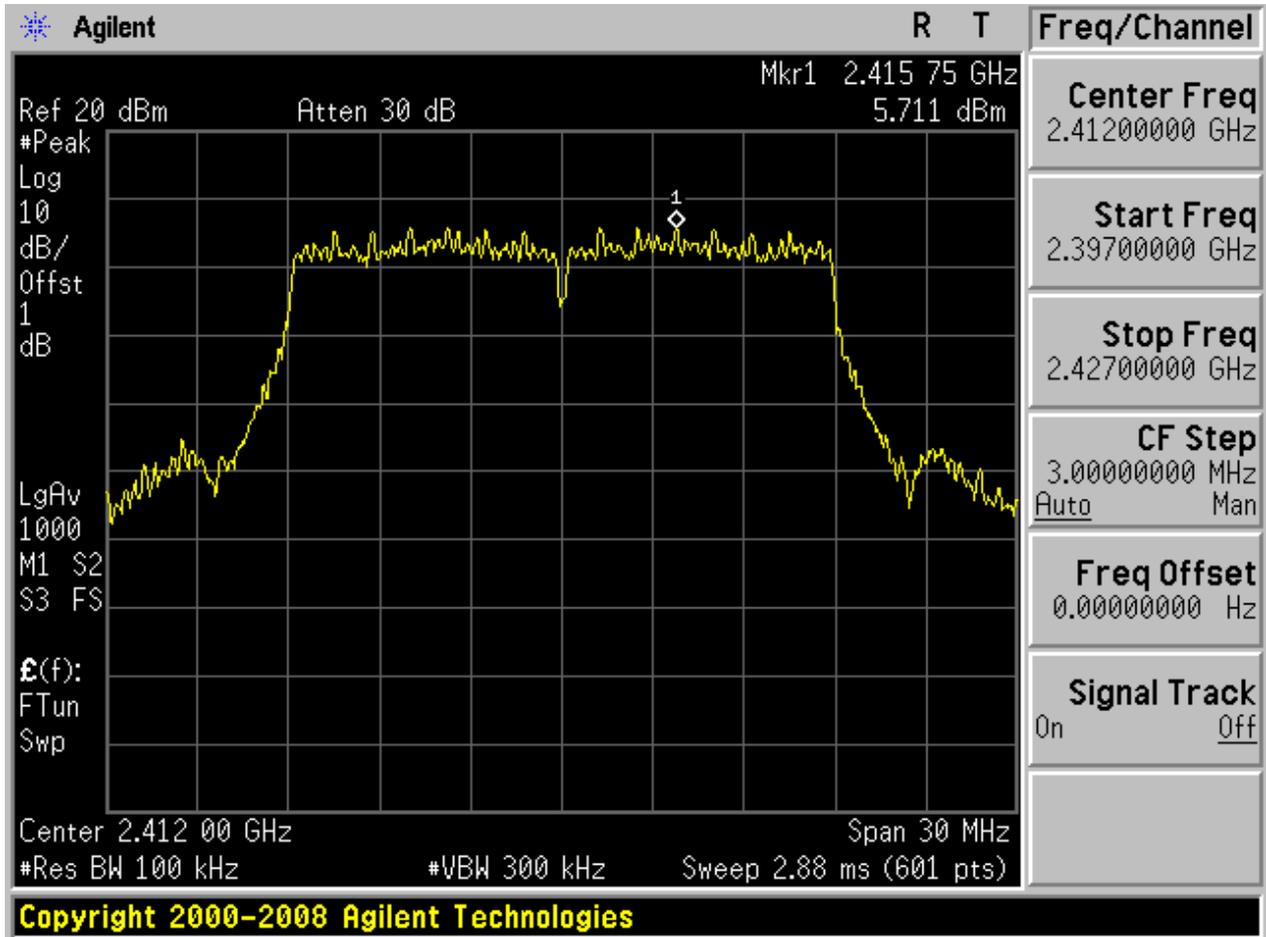






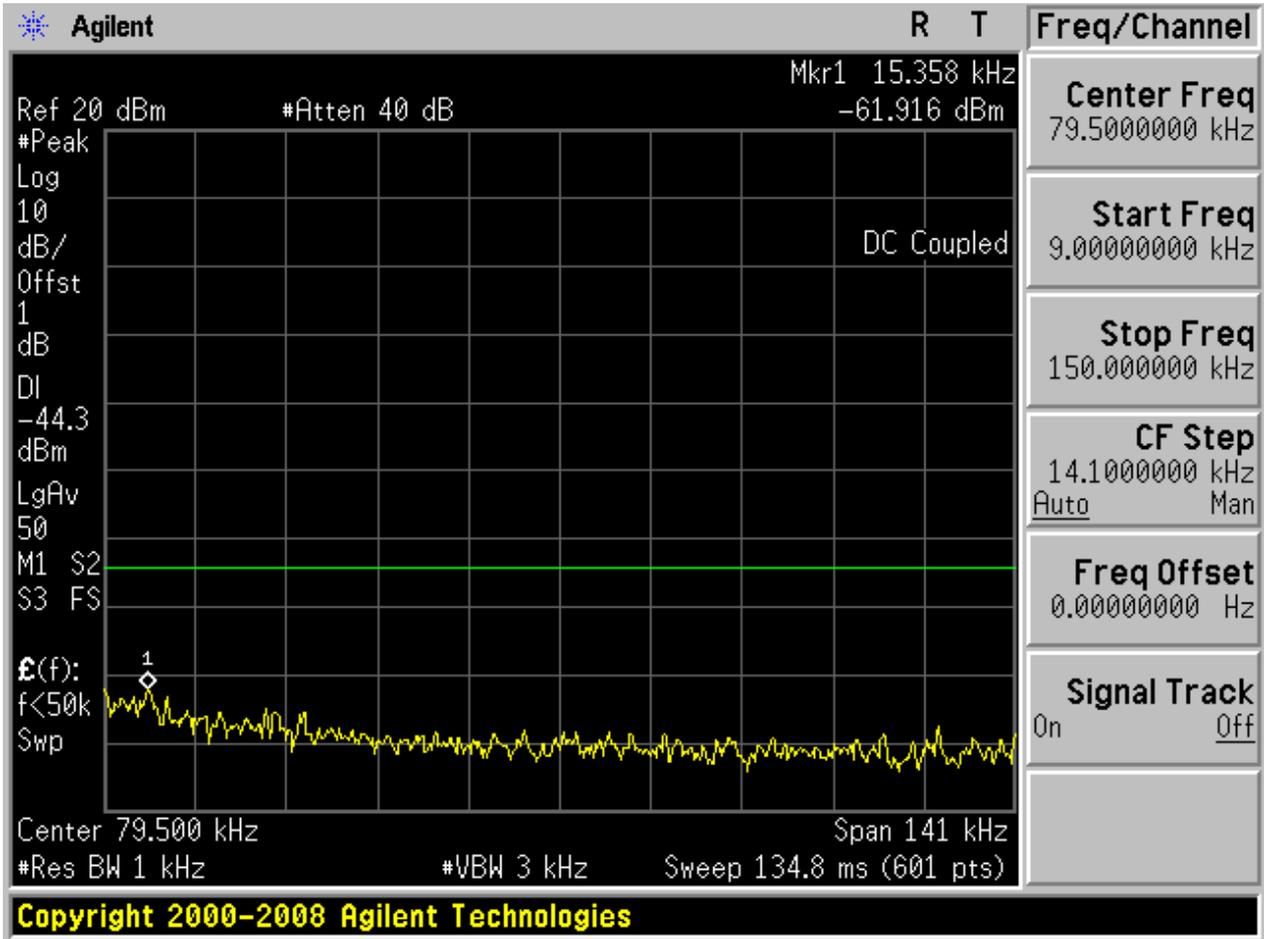
2.14 11N20\_L@Ant 2

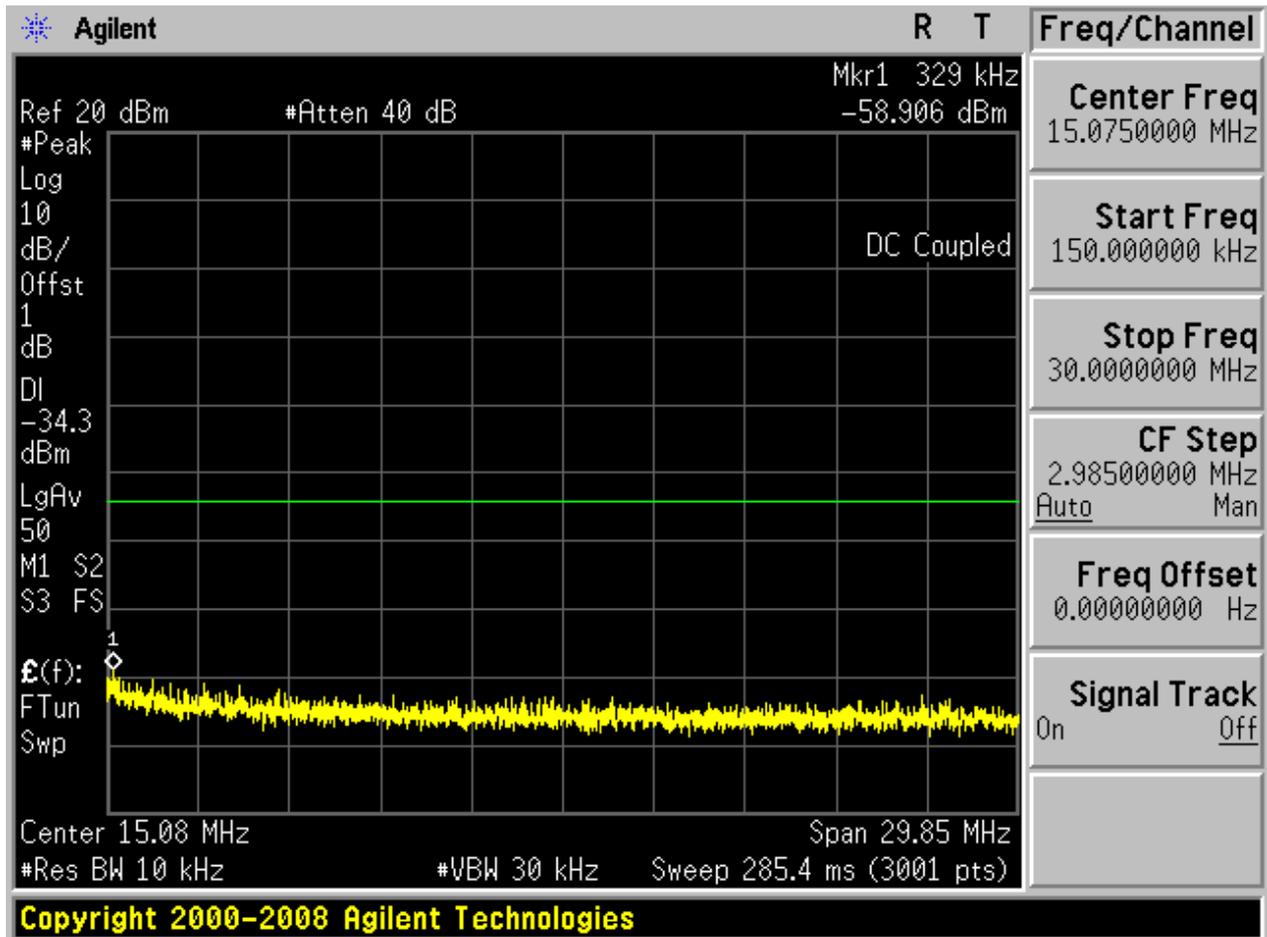
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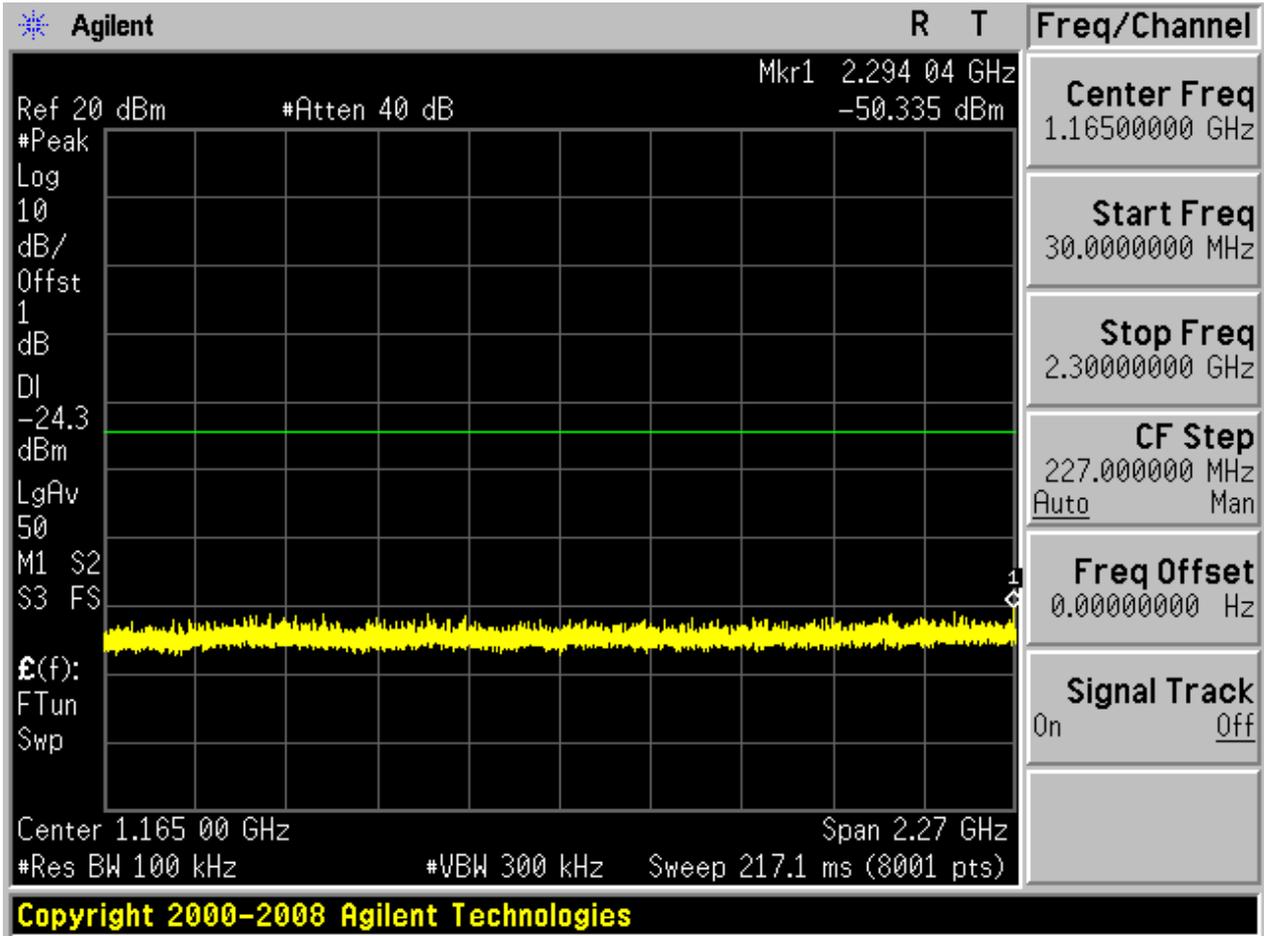


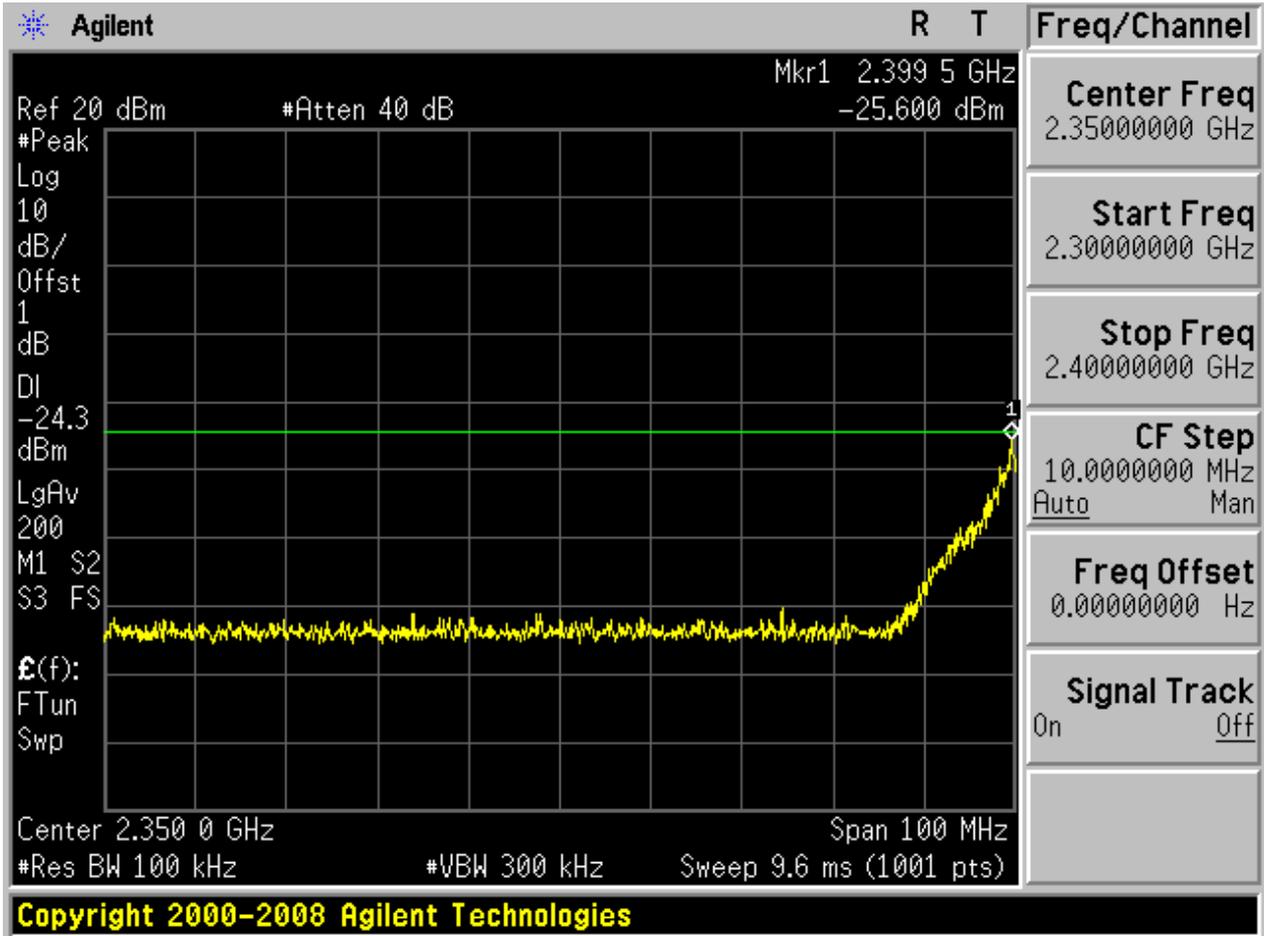


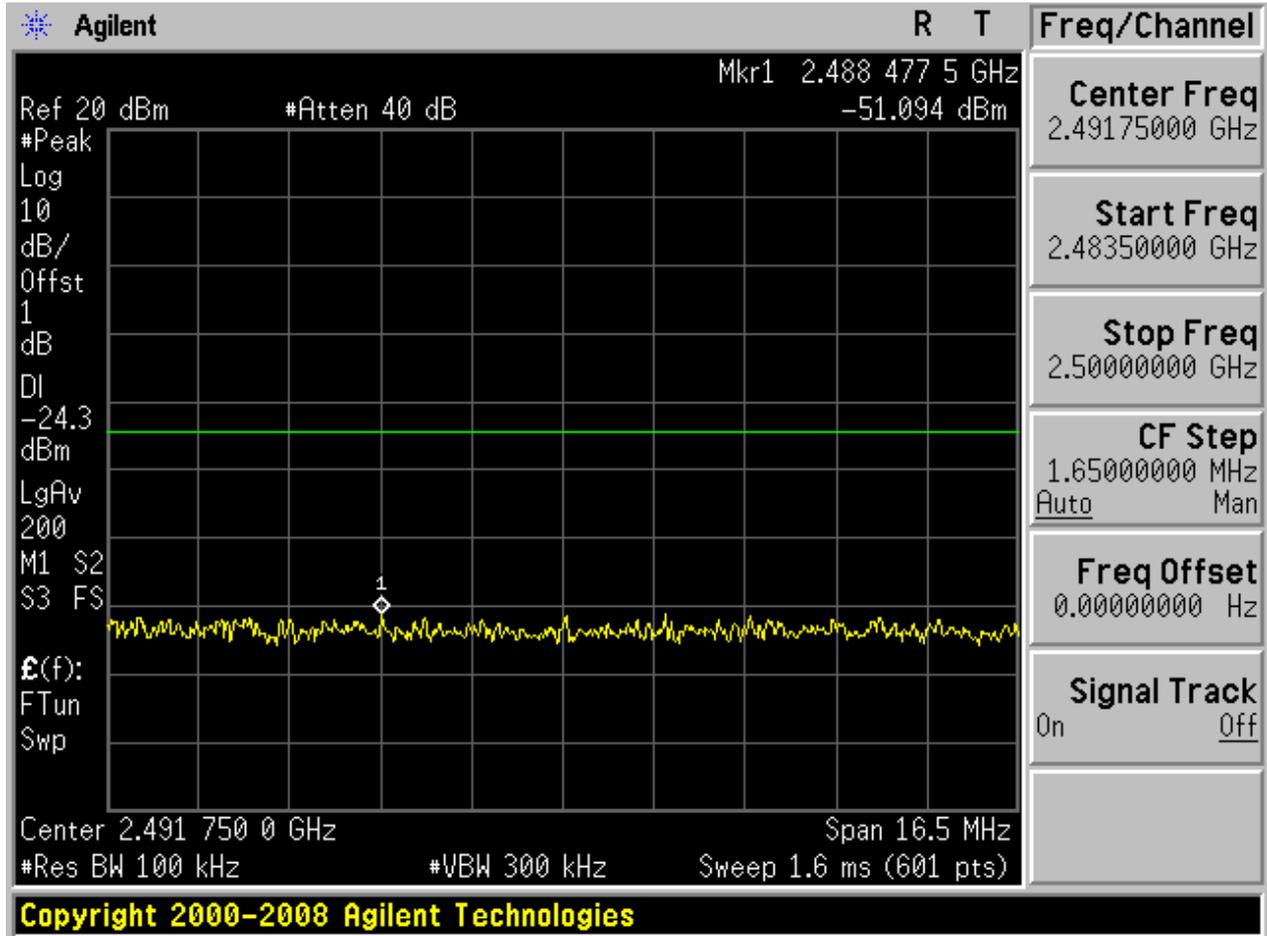
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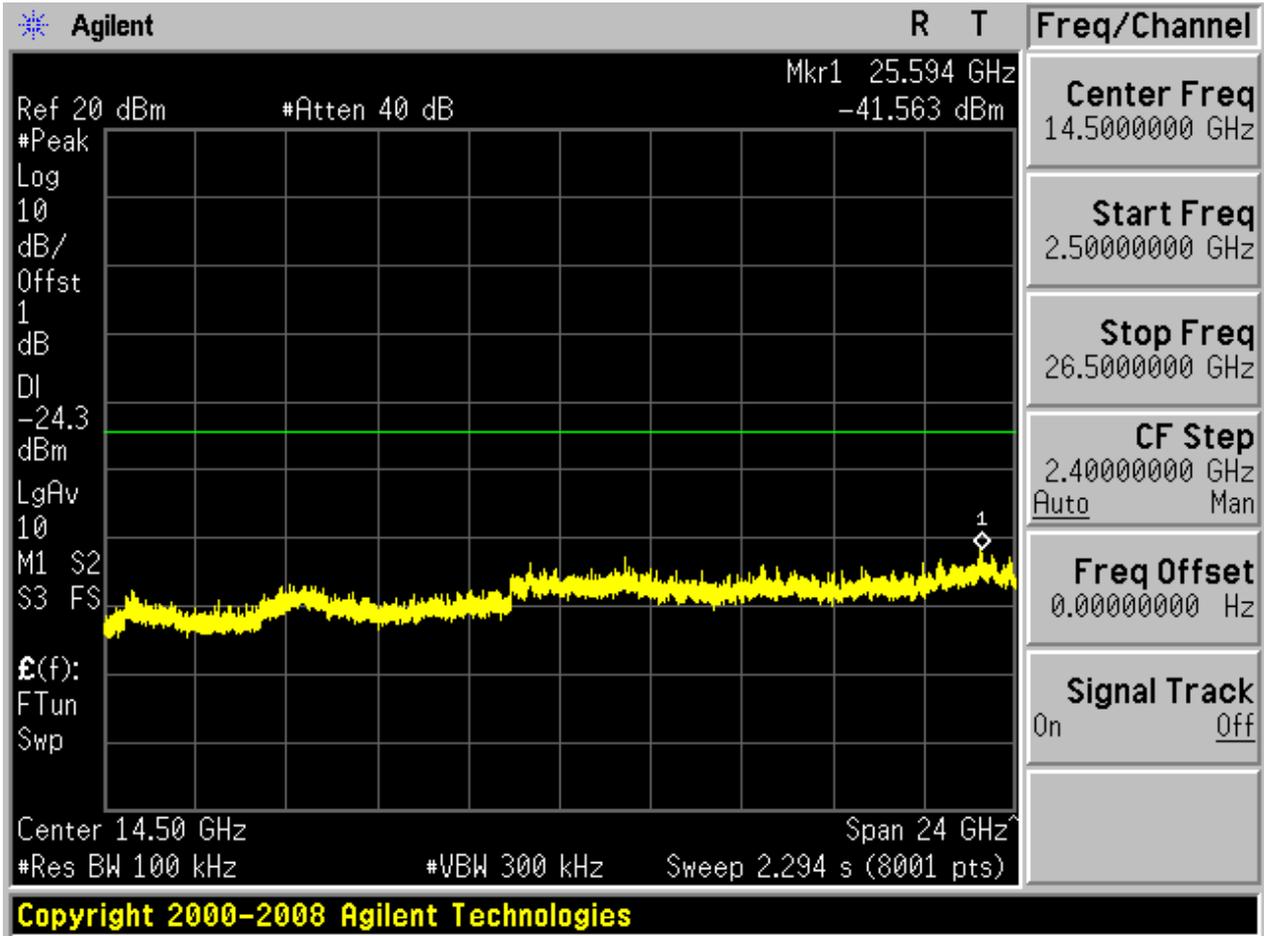








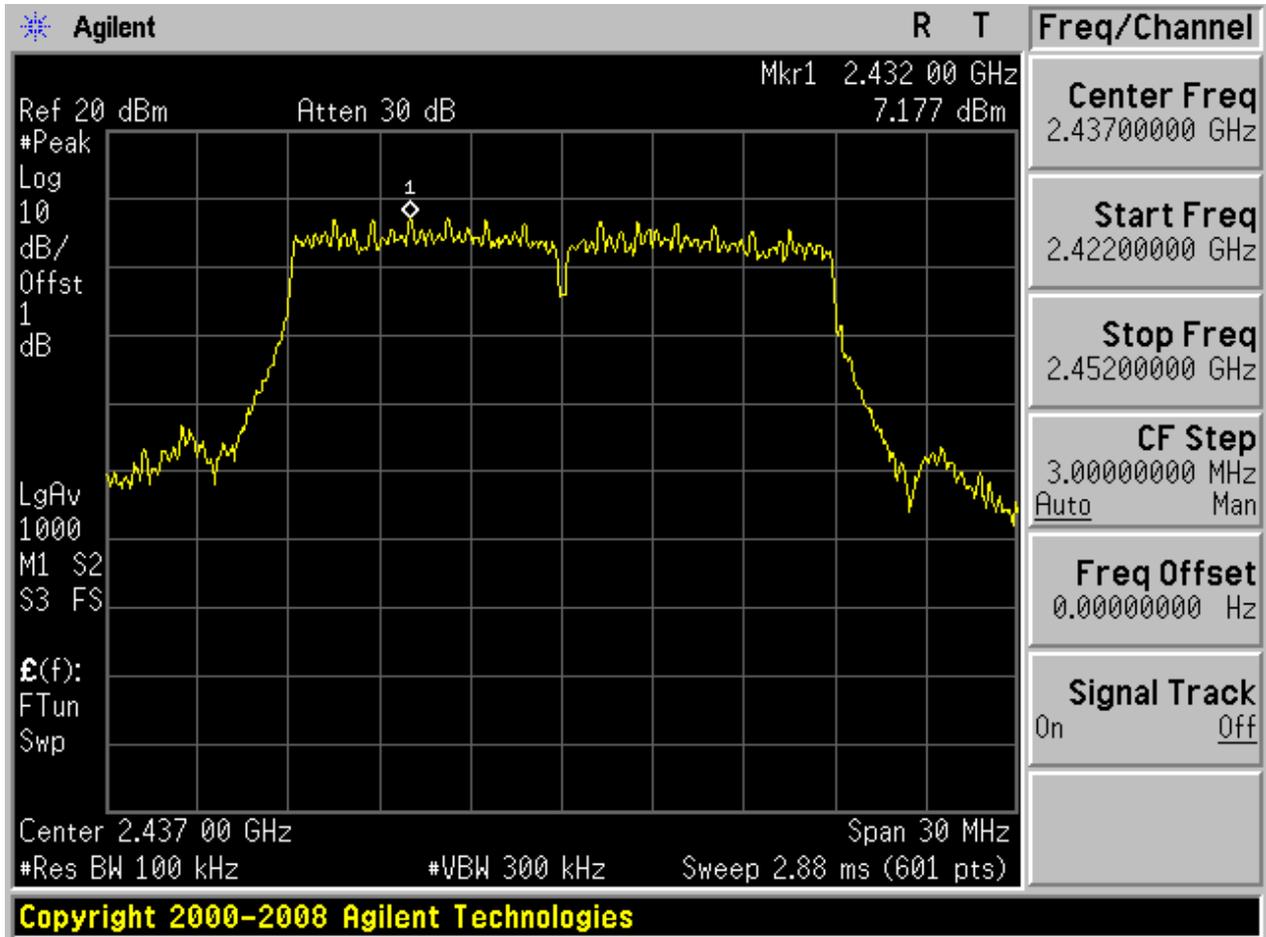






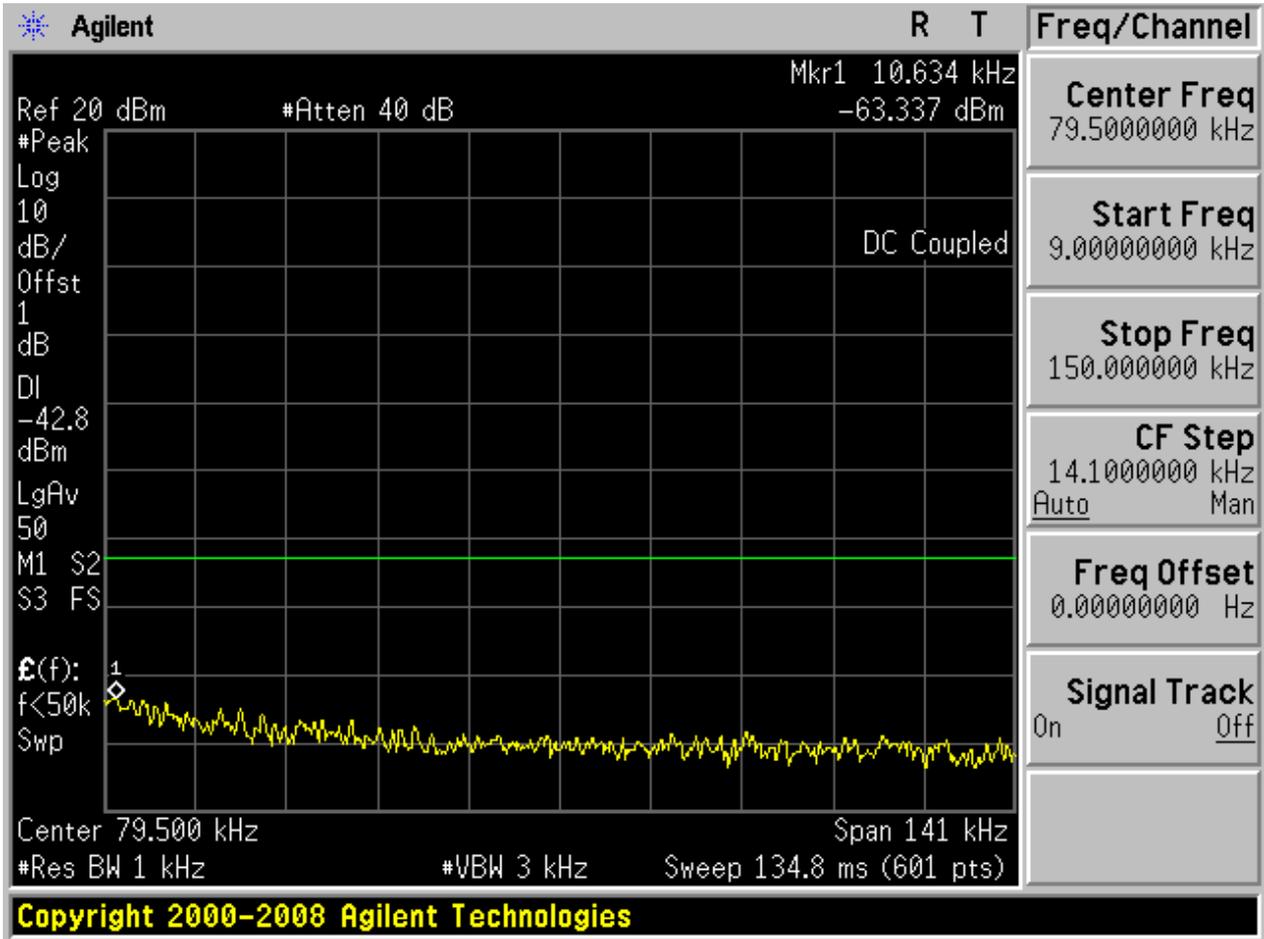
### 2.15 11N20\_M@Ant 1

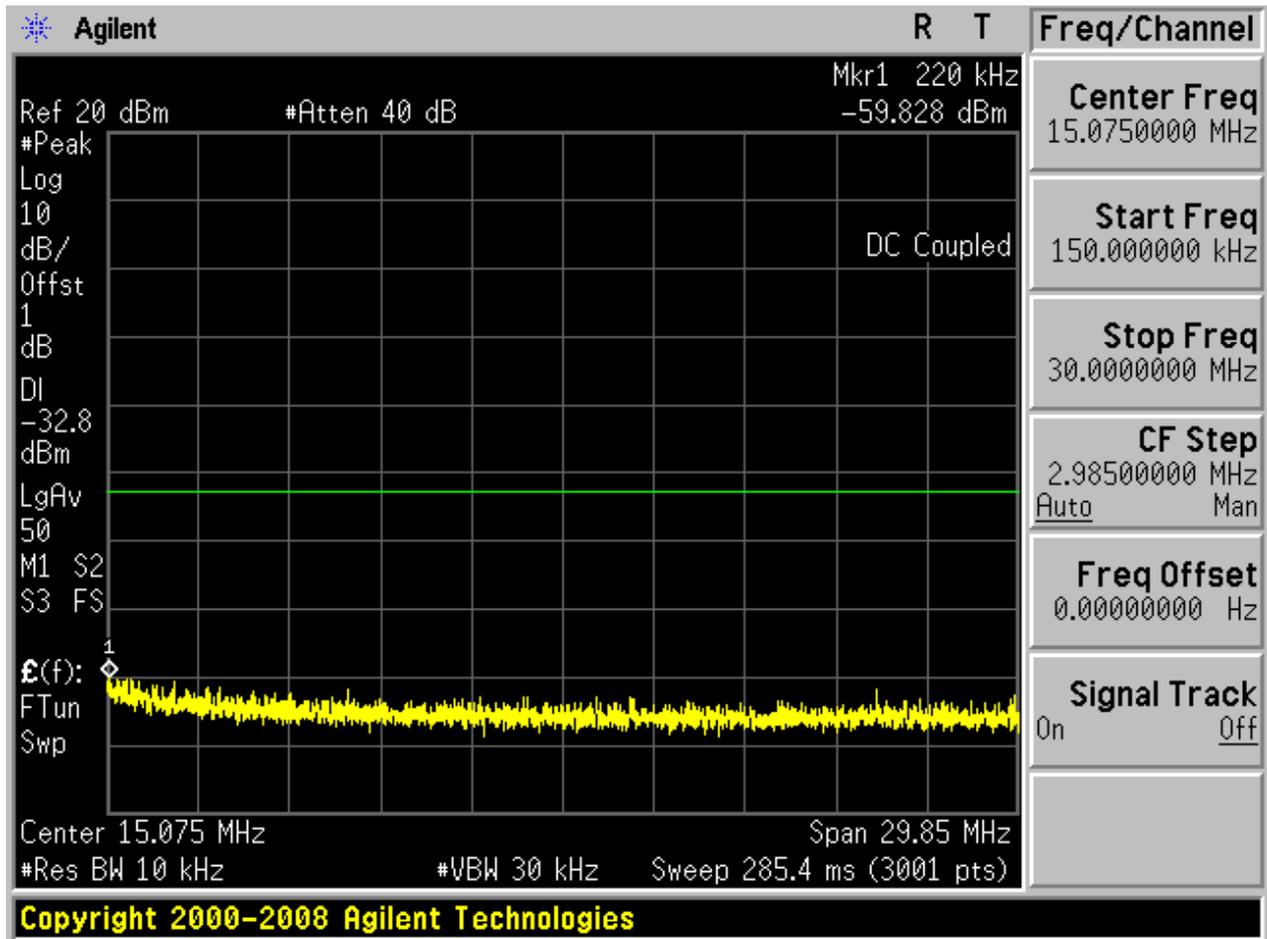
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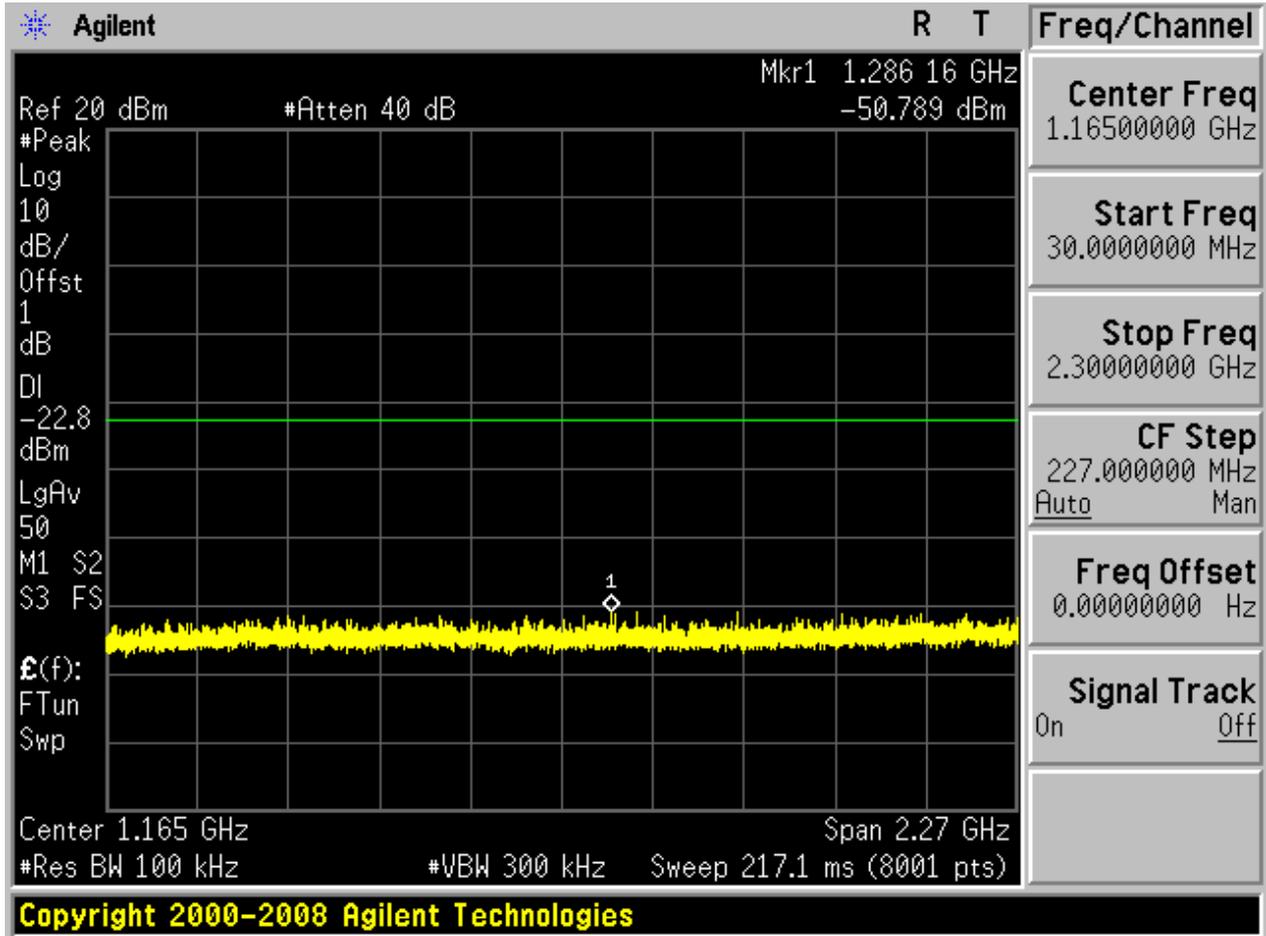


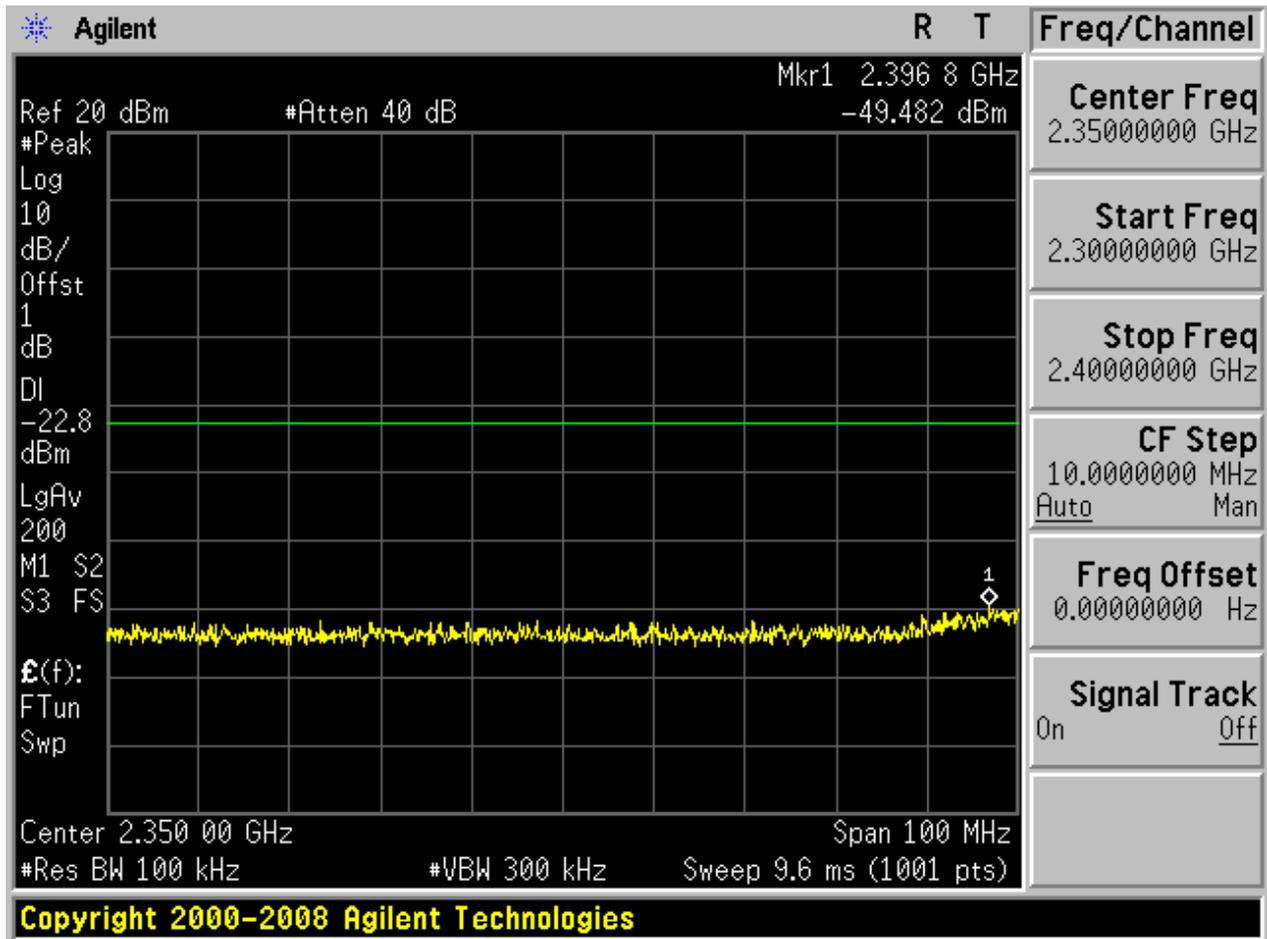


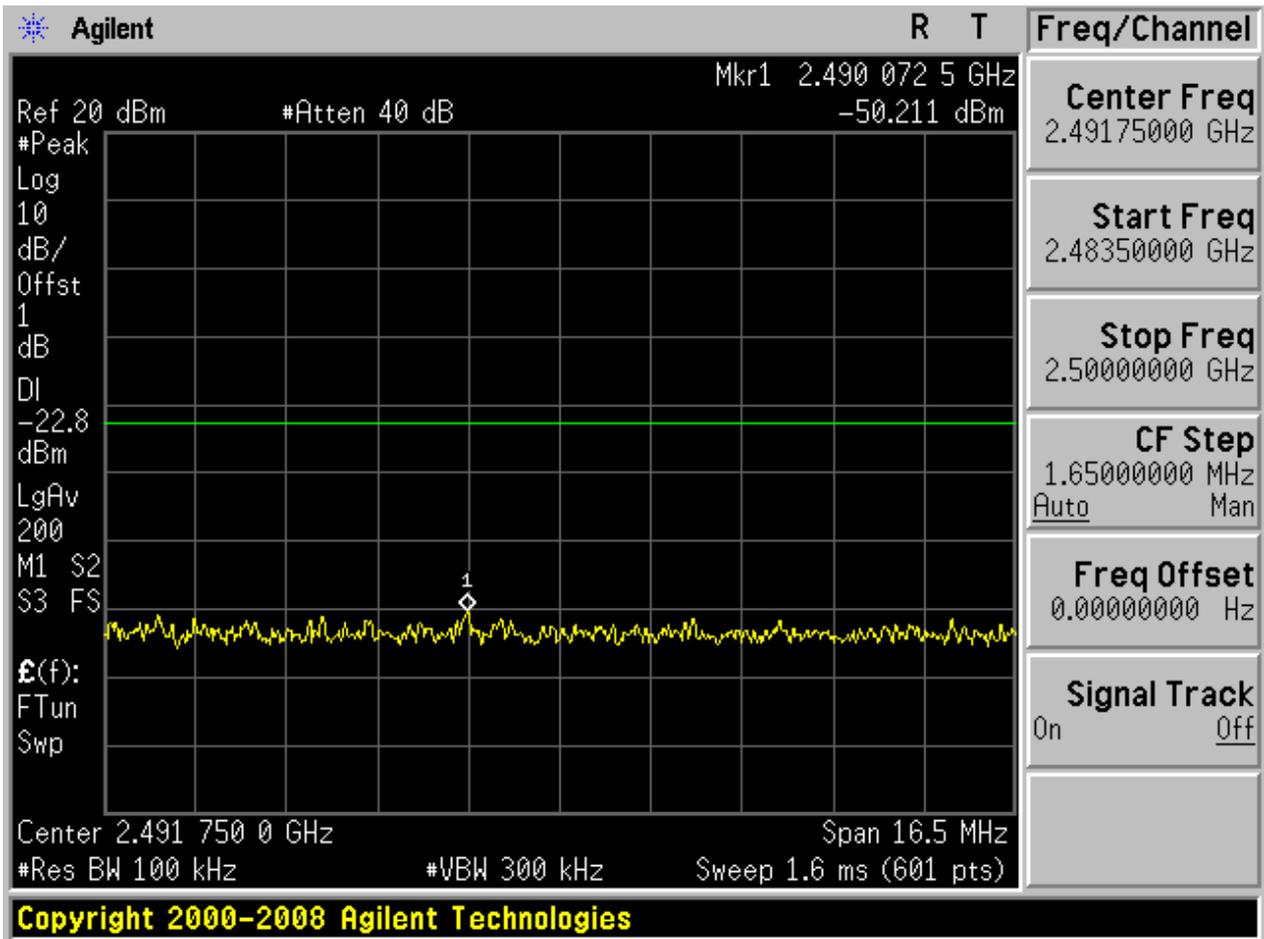
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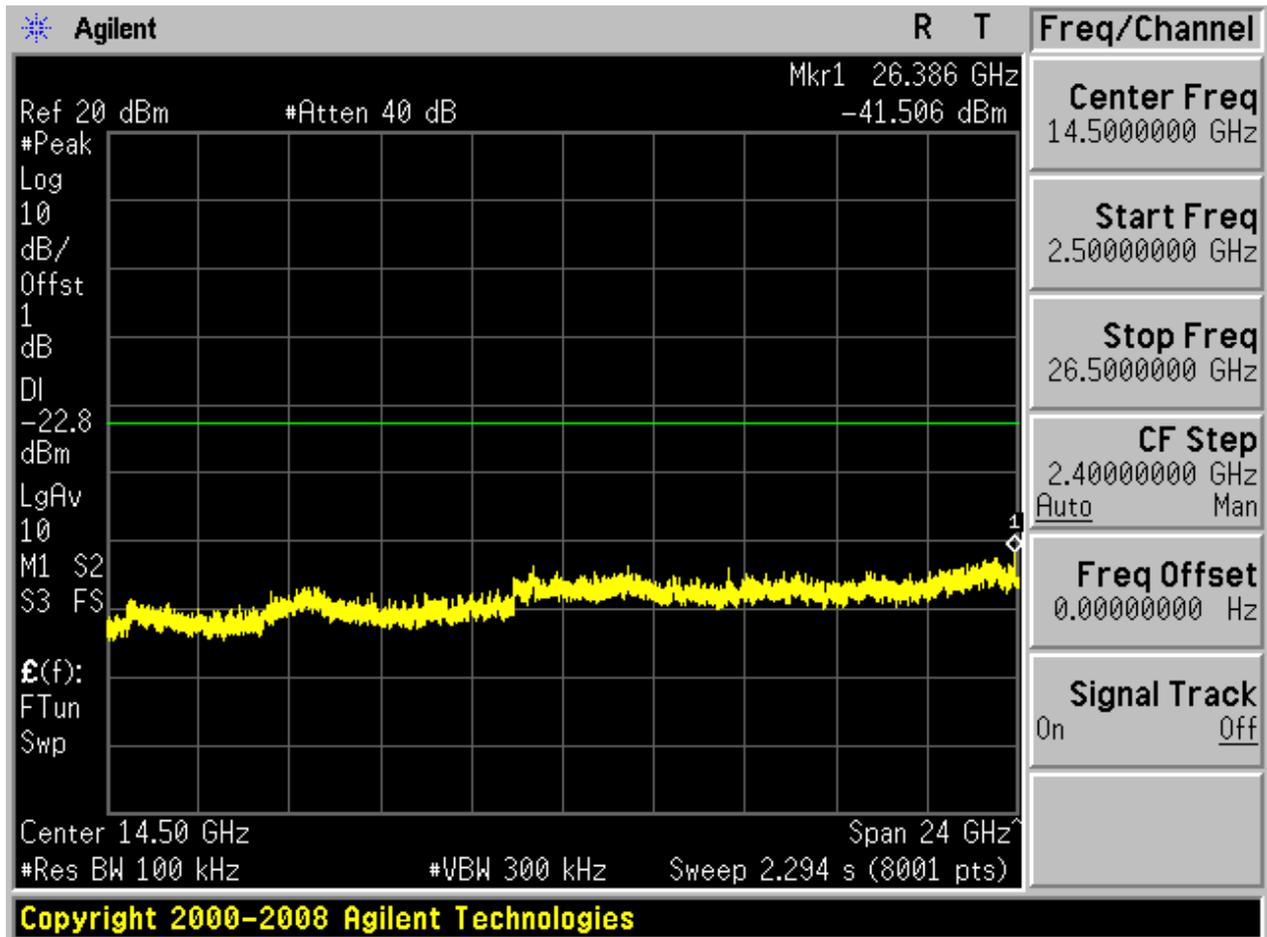








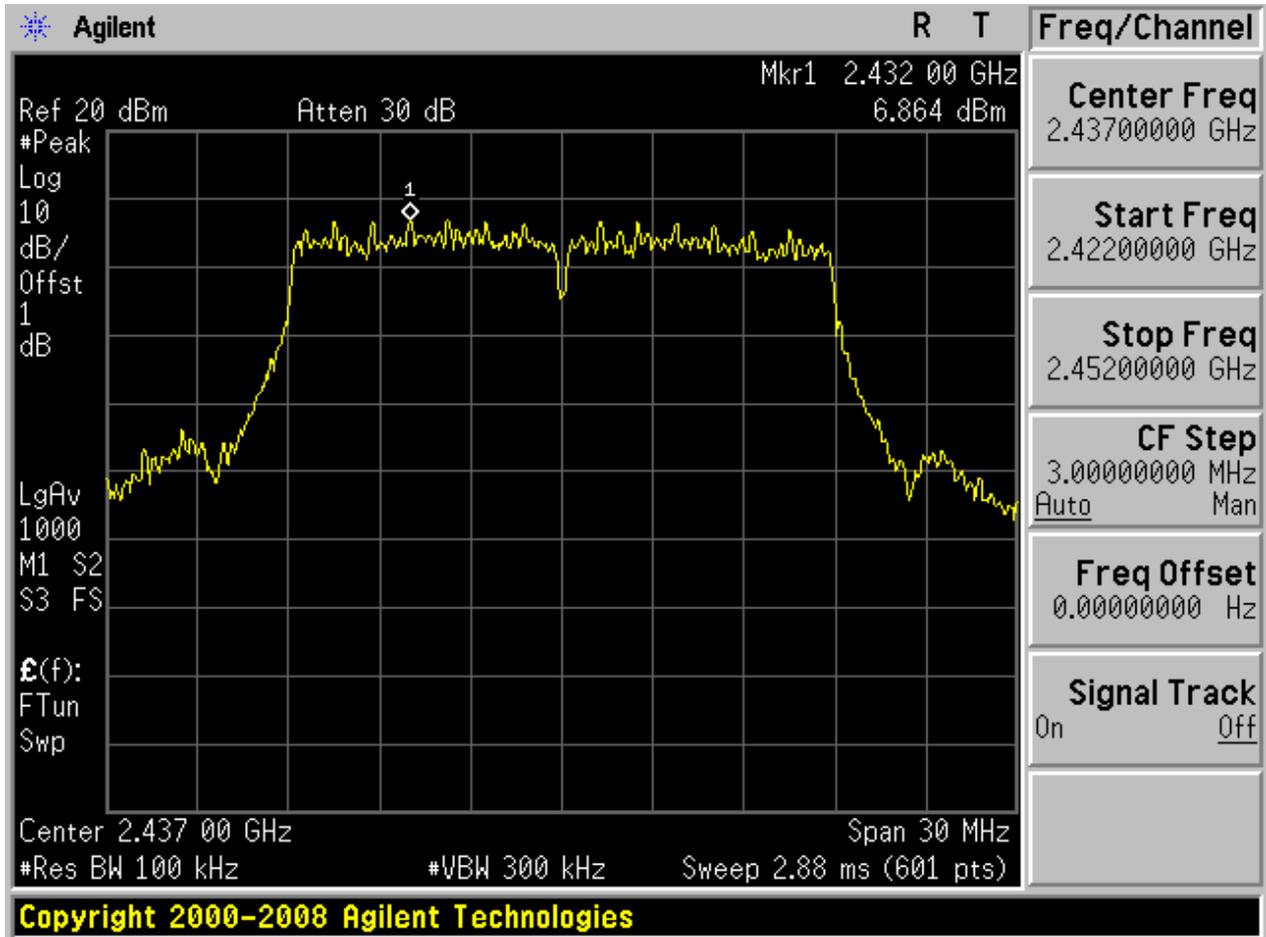






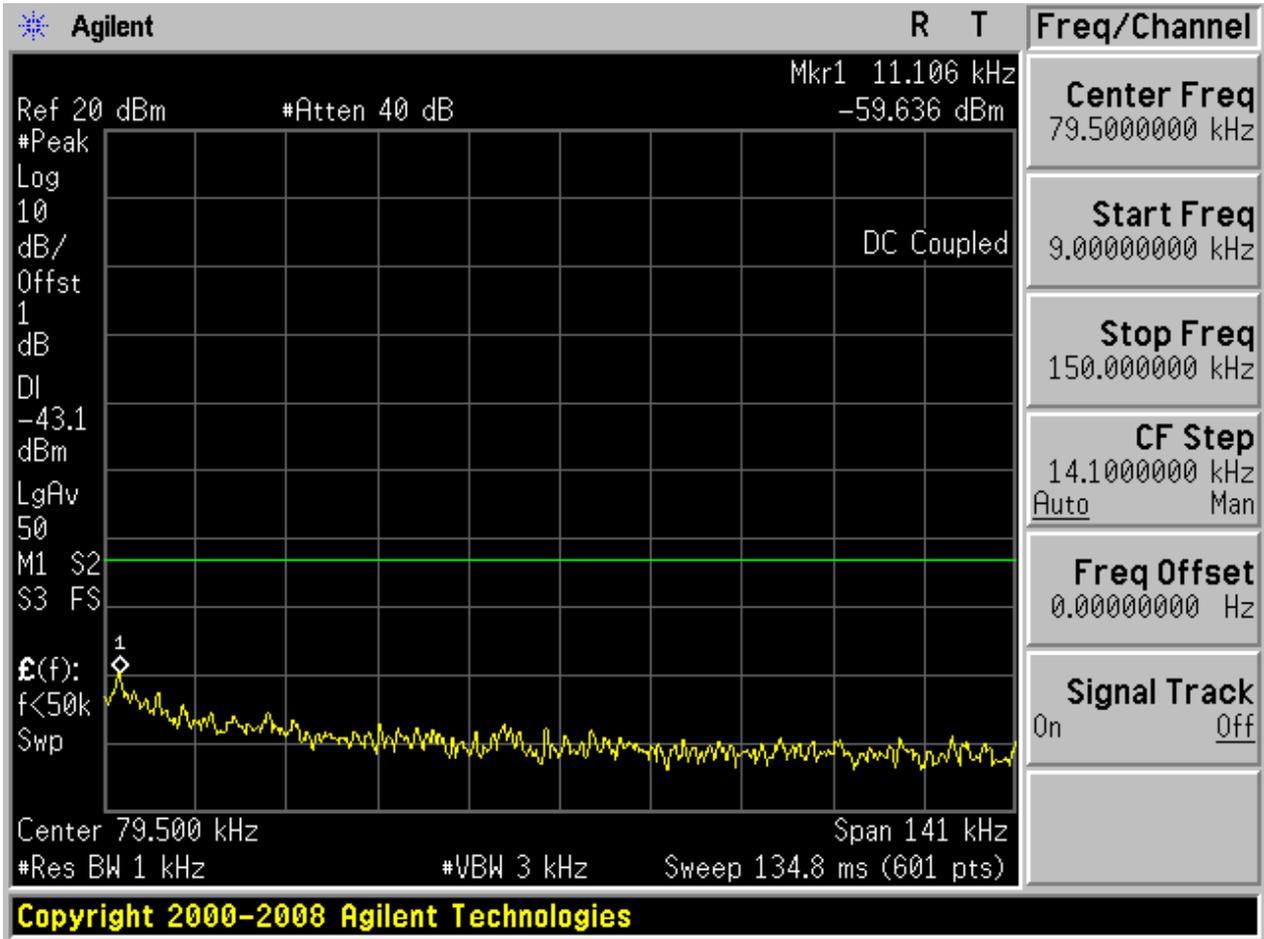
2.16 11N20\_M@Ant 2

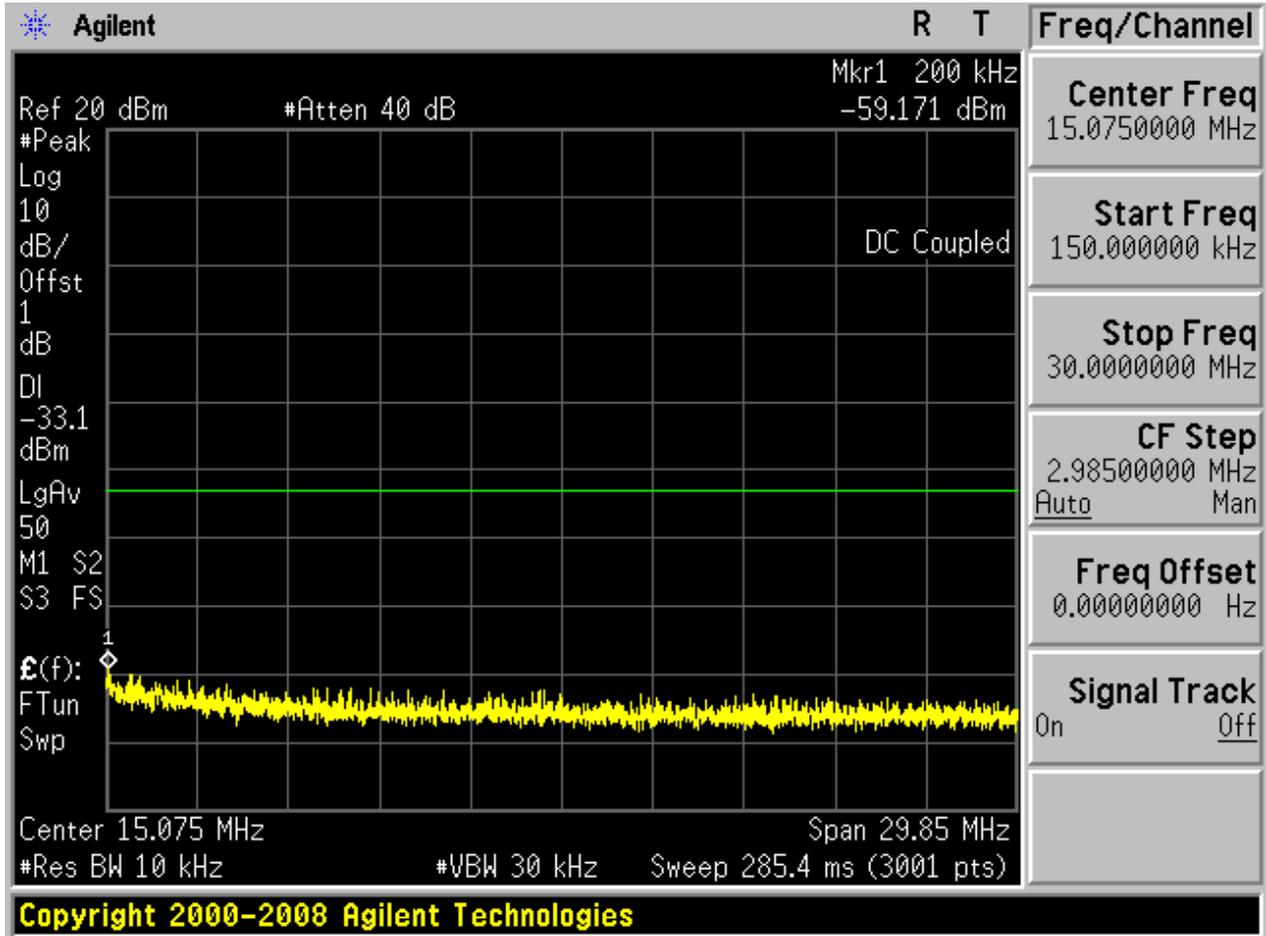
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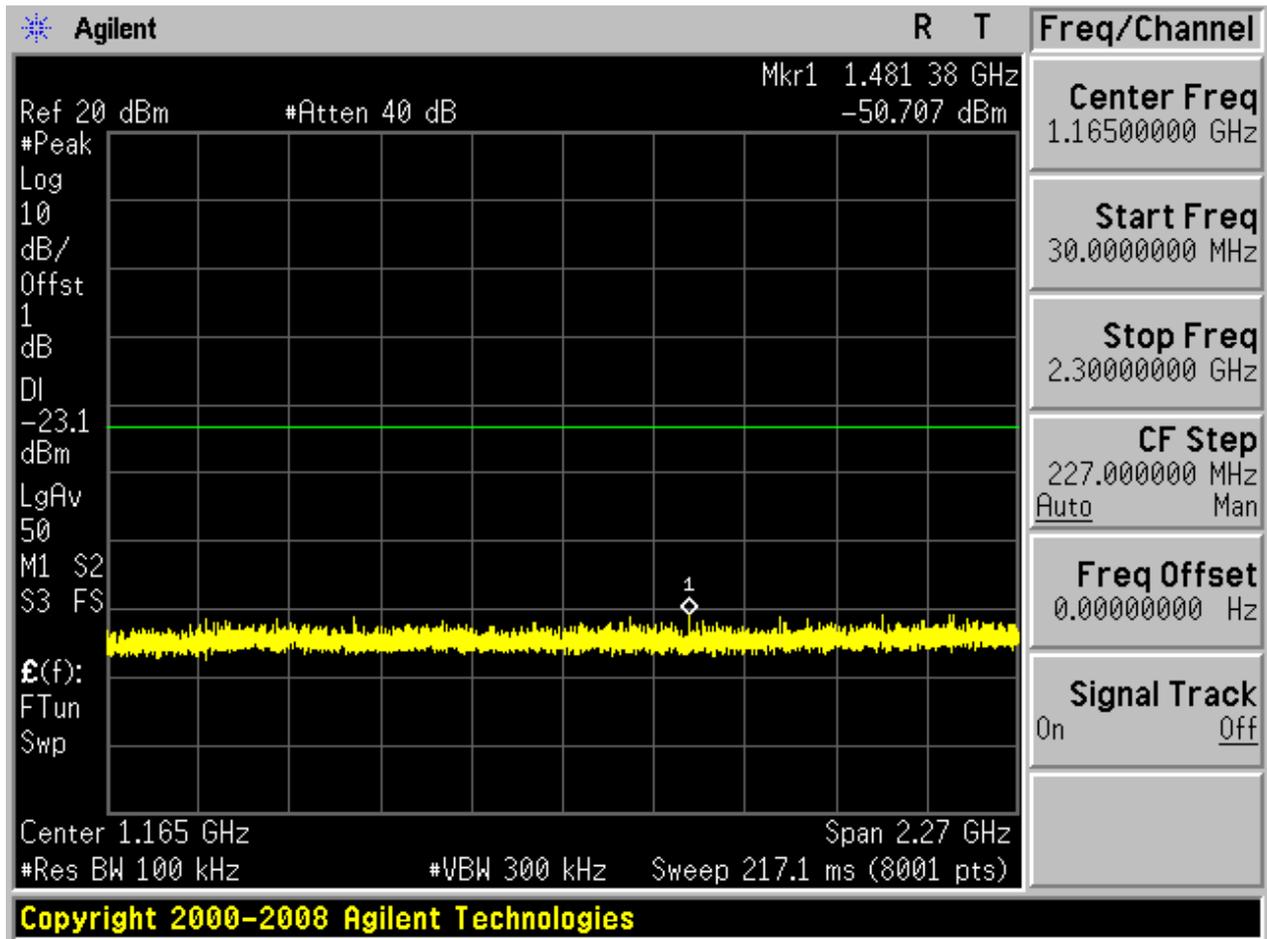


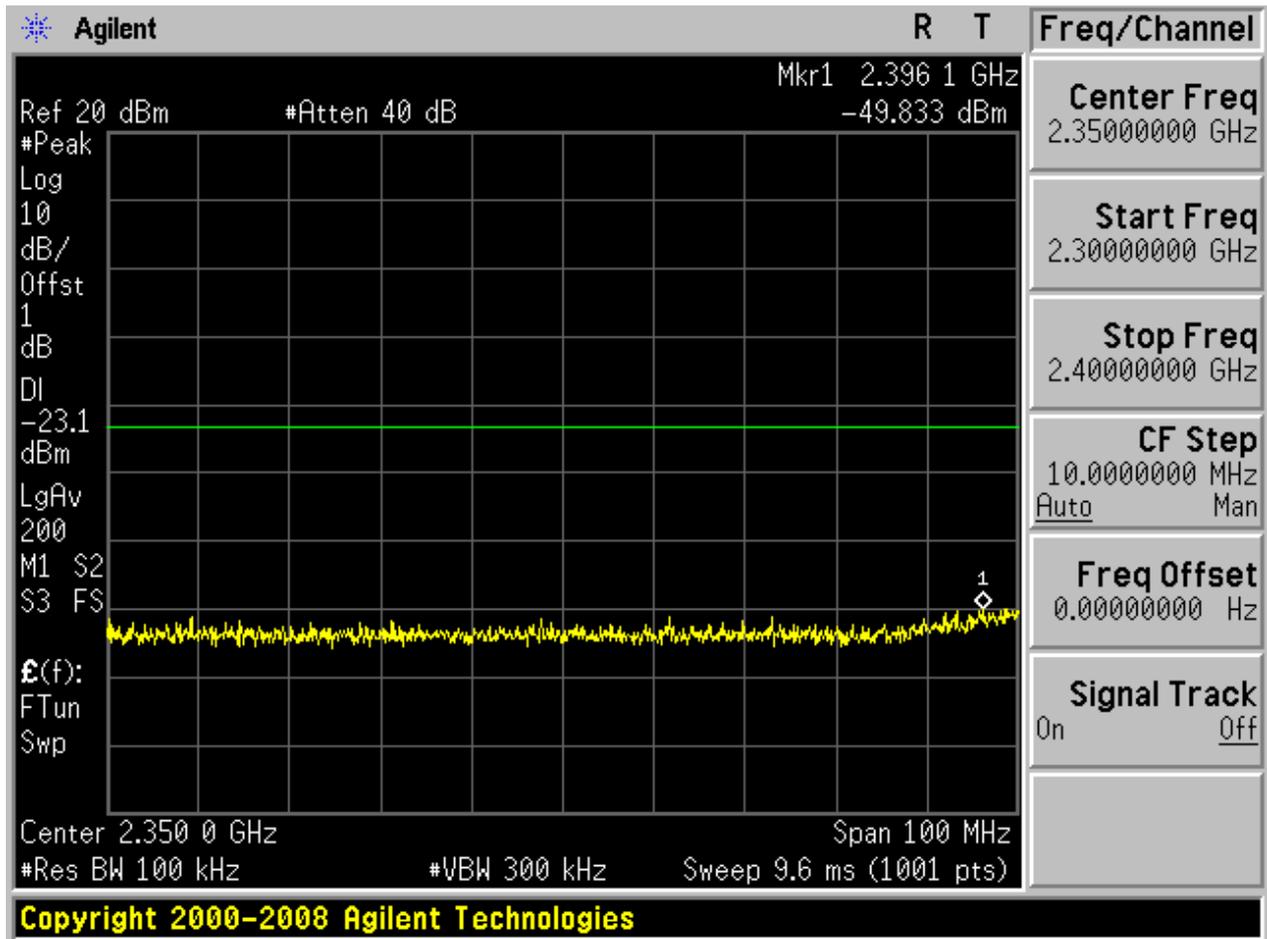


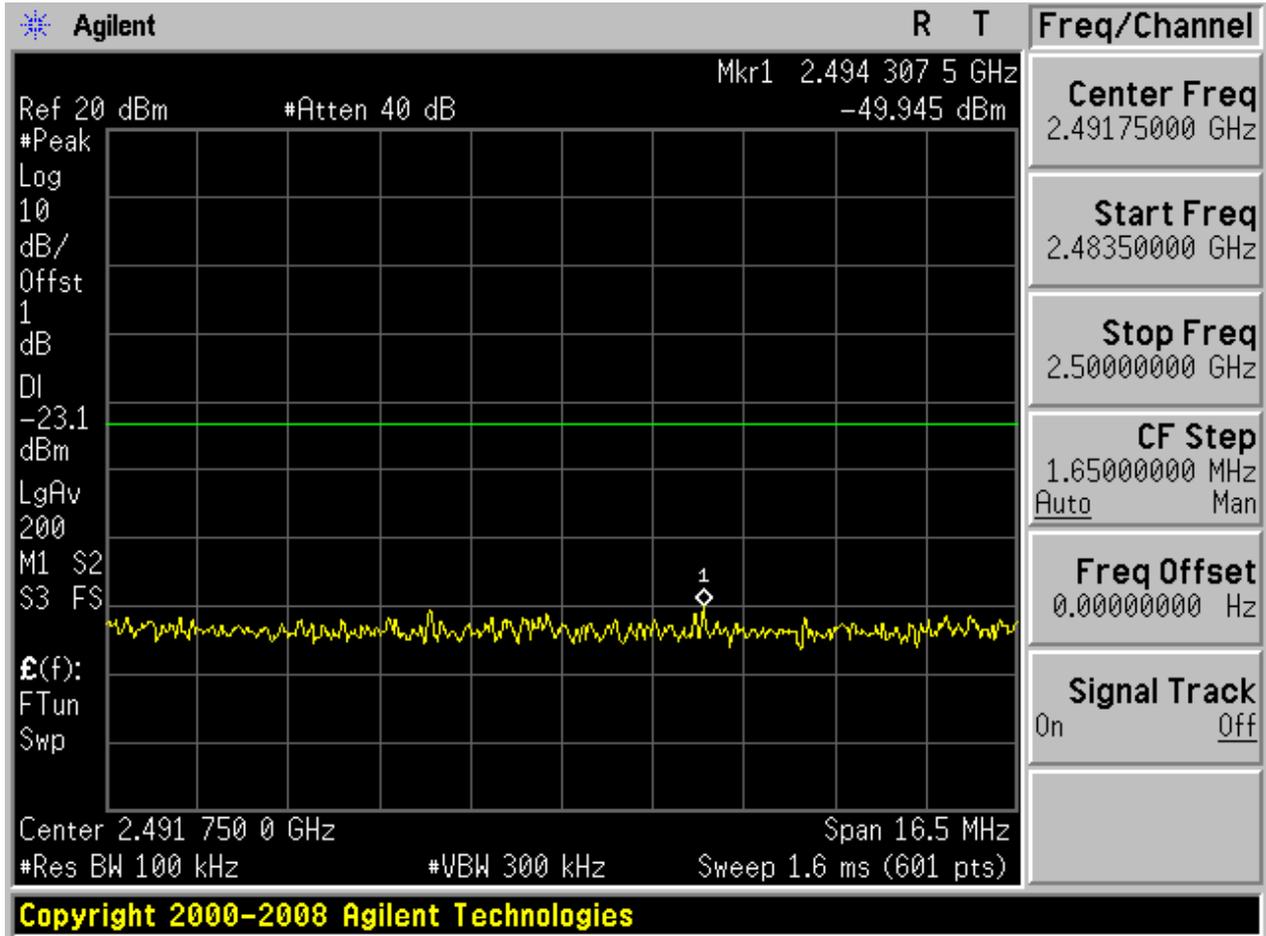
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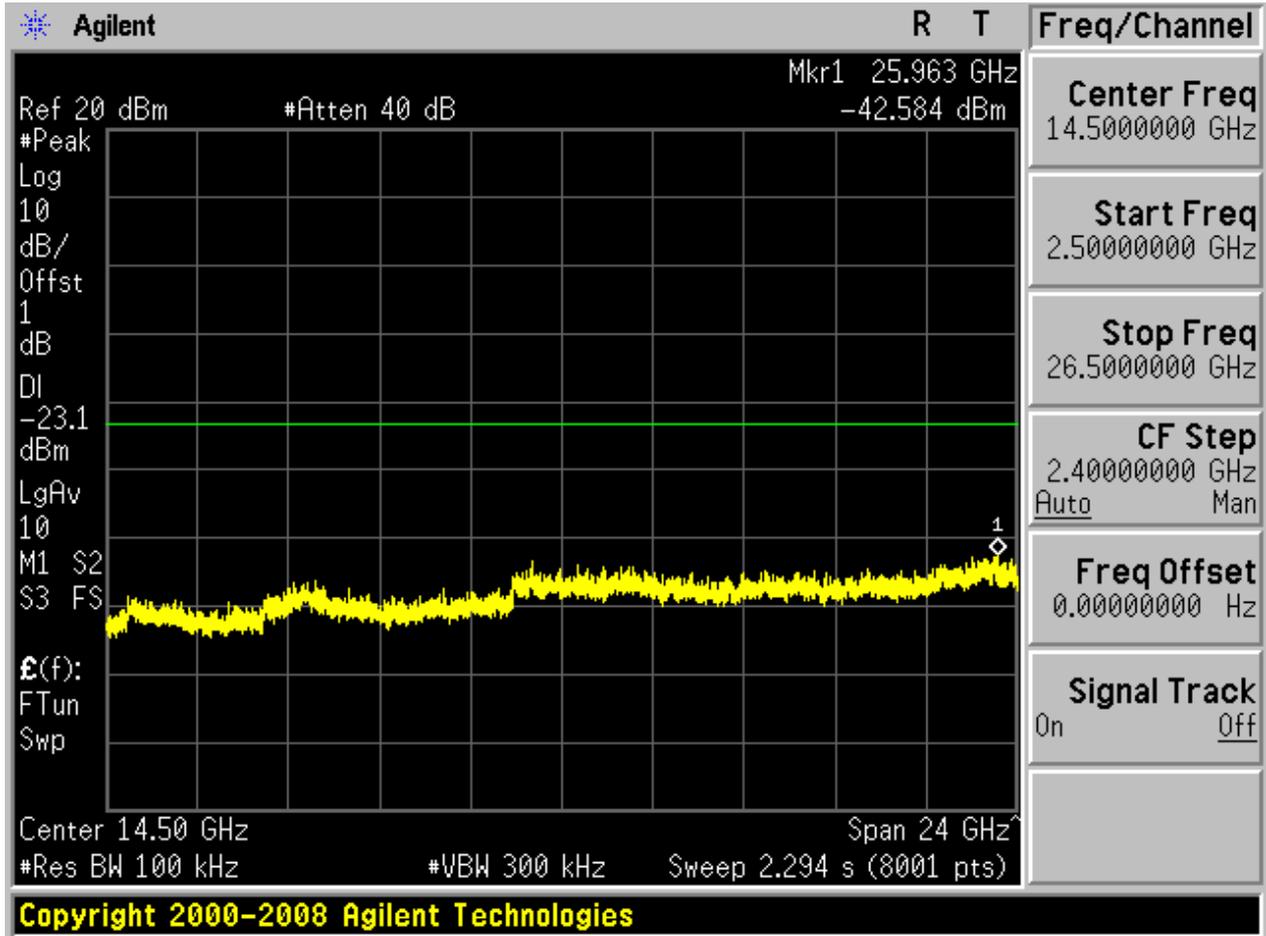








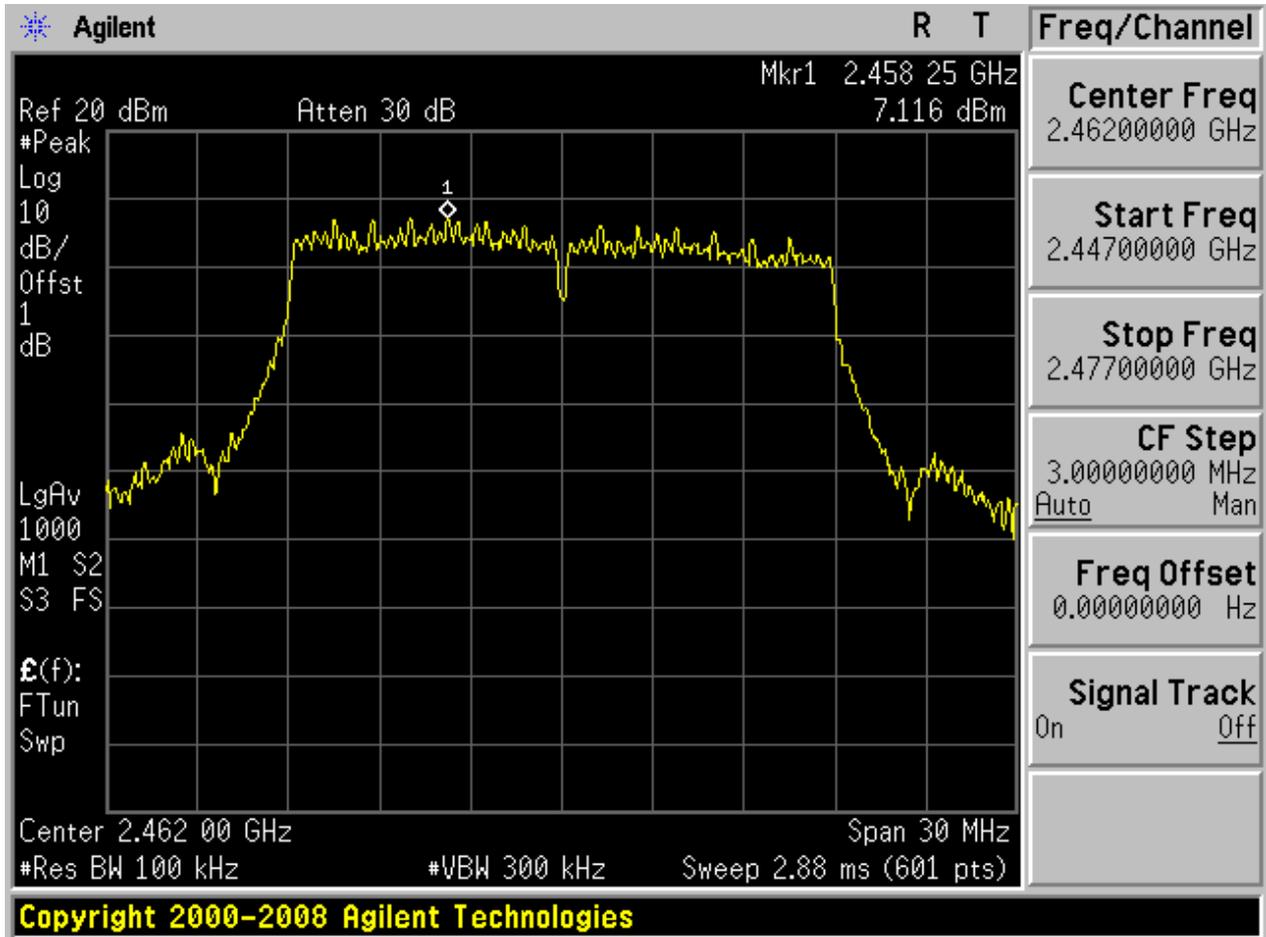






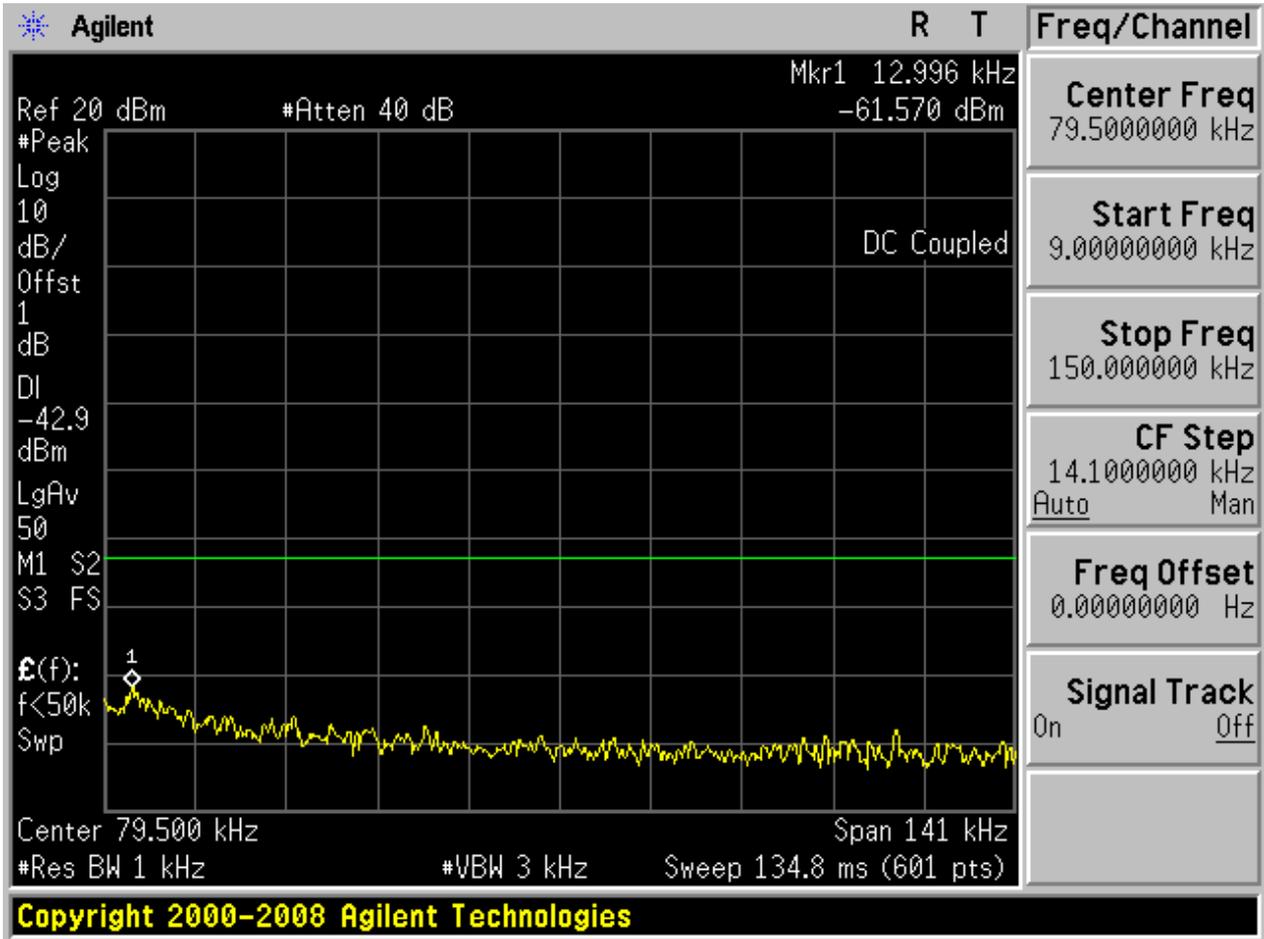
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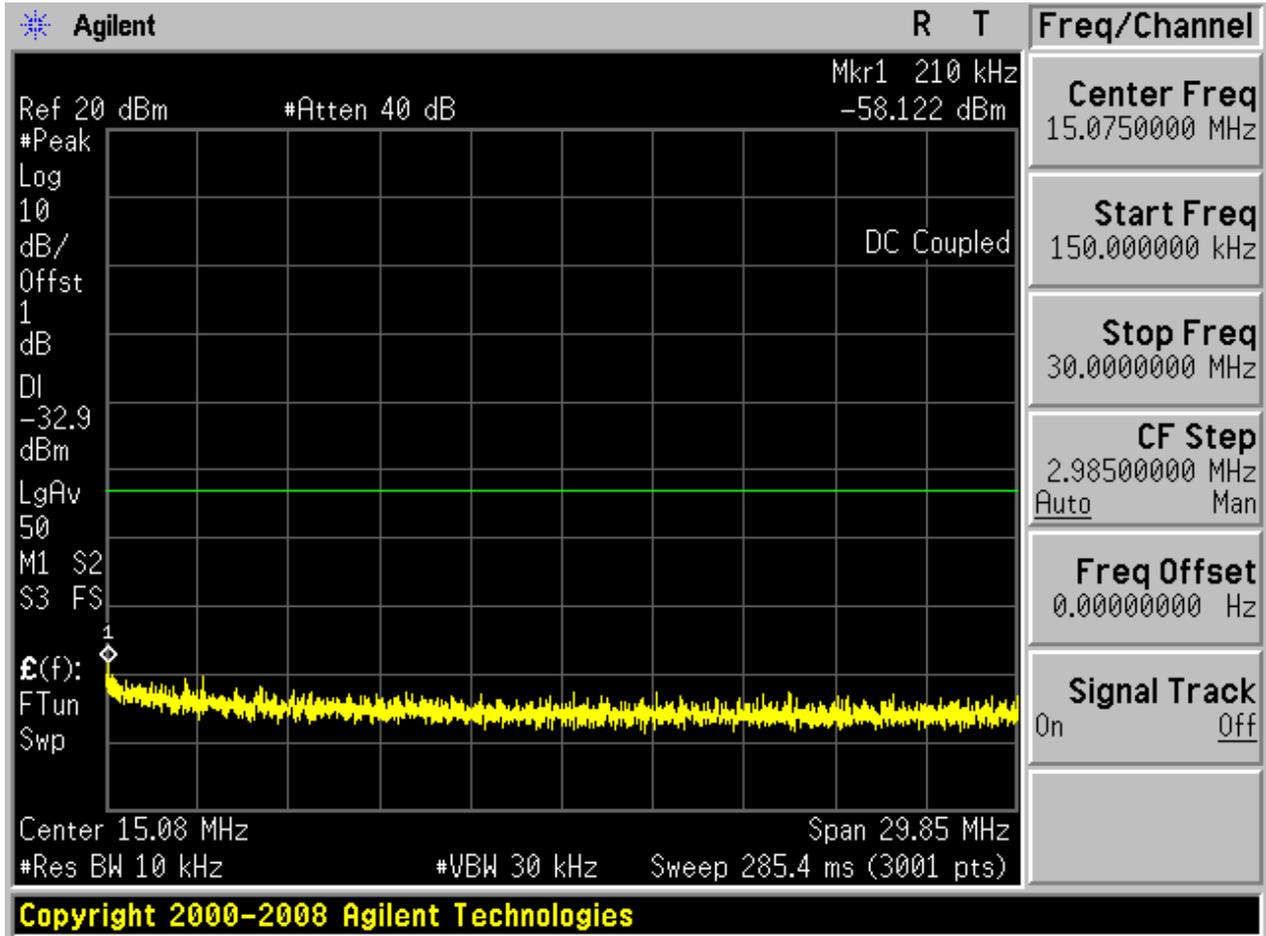
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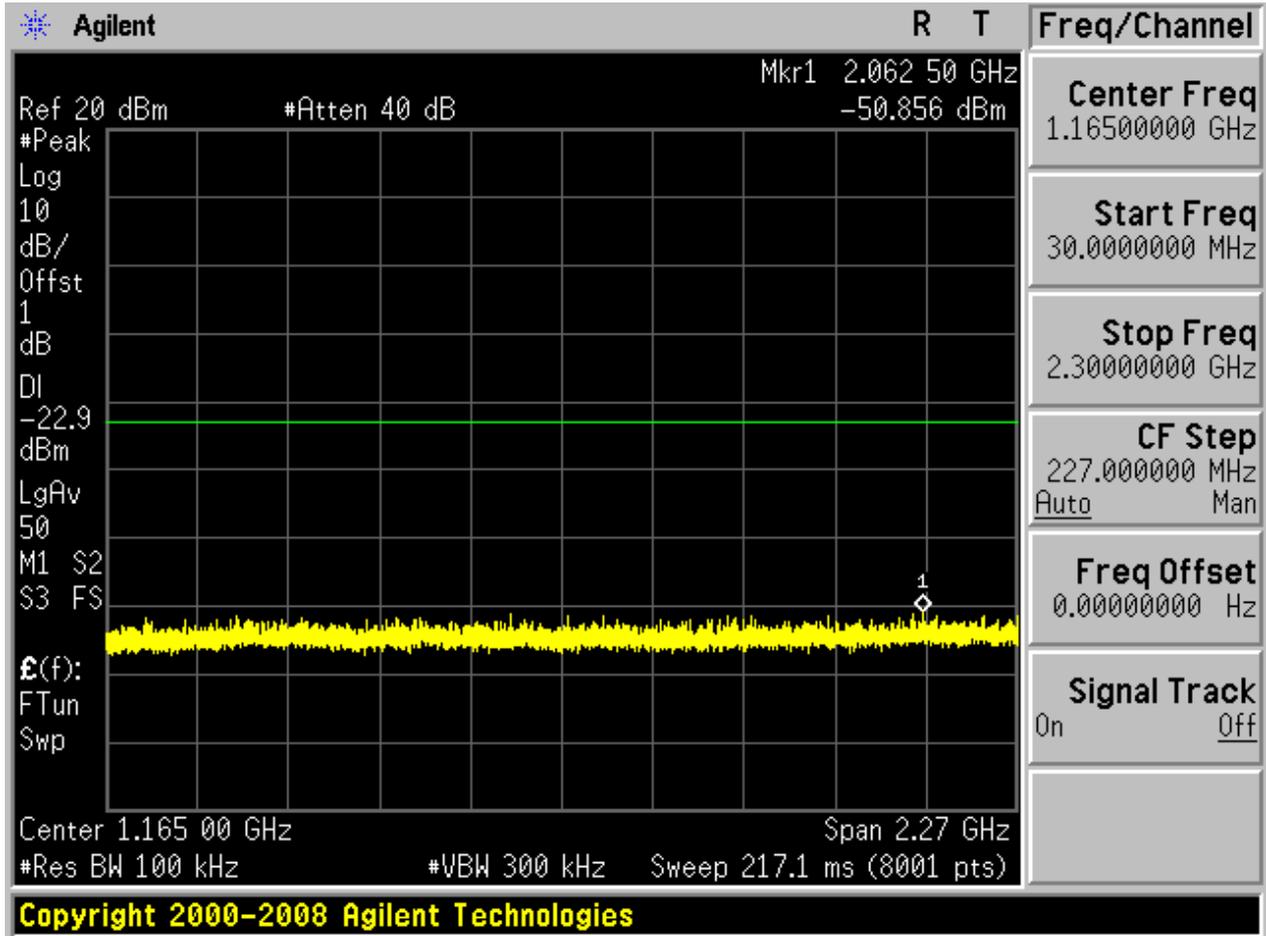


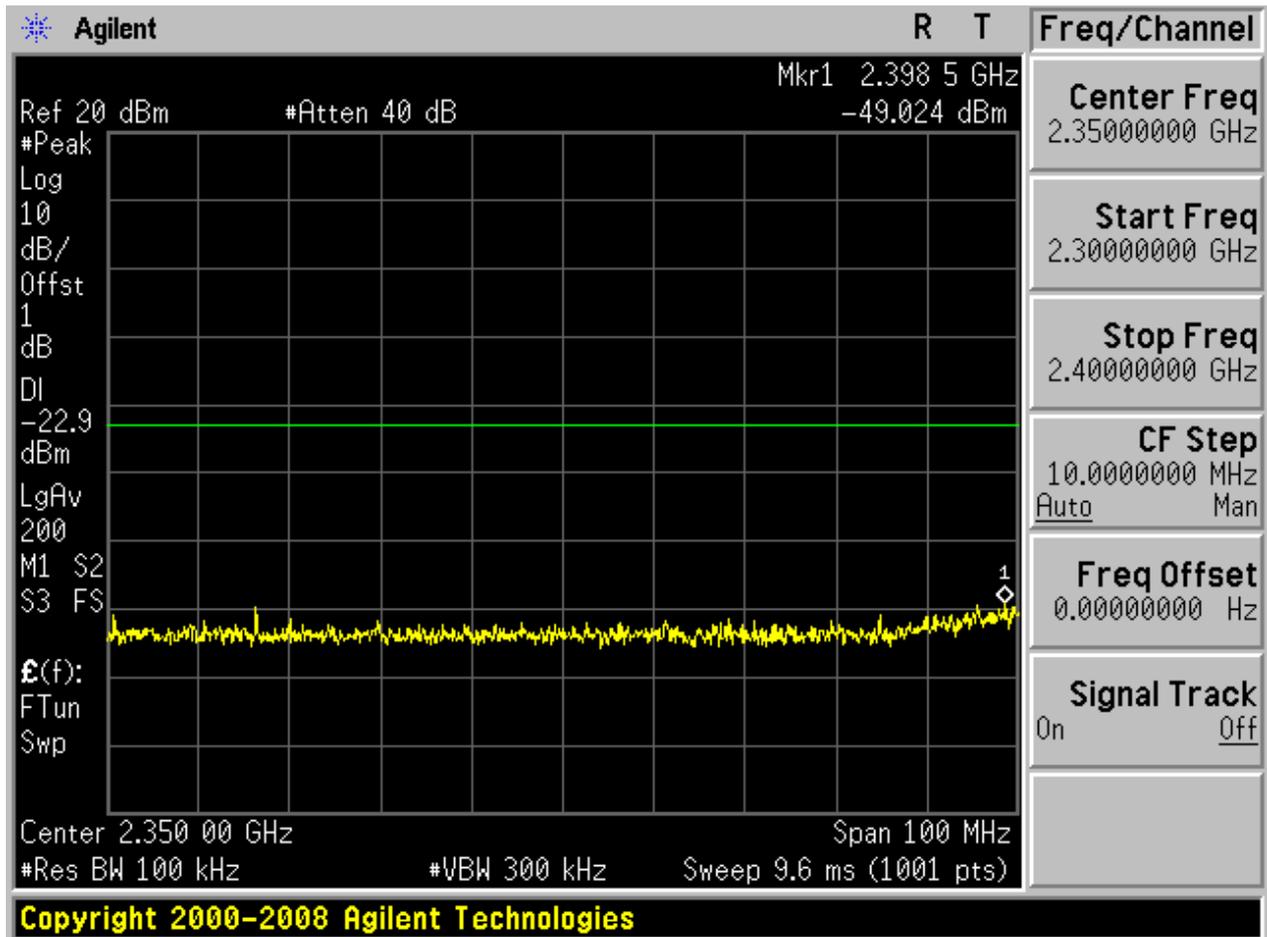


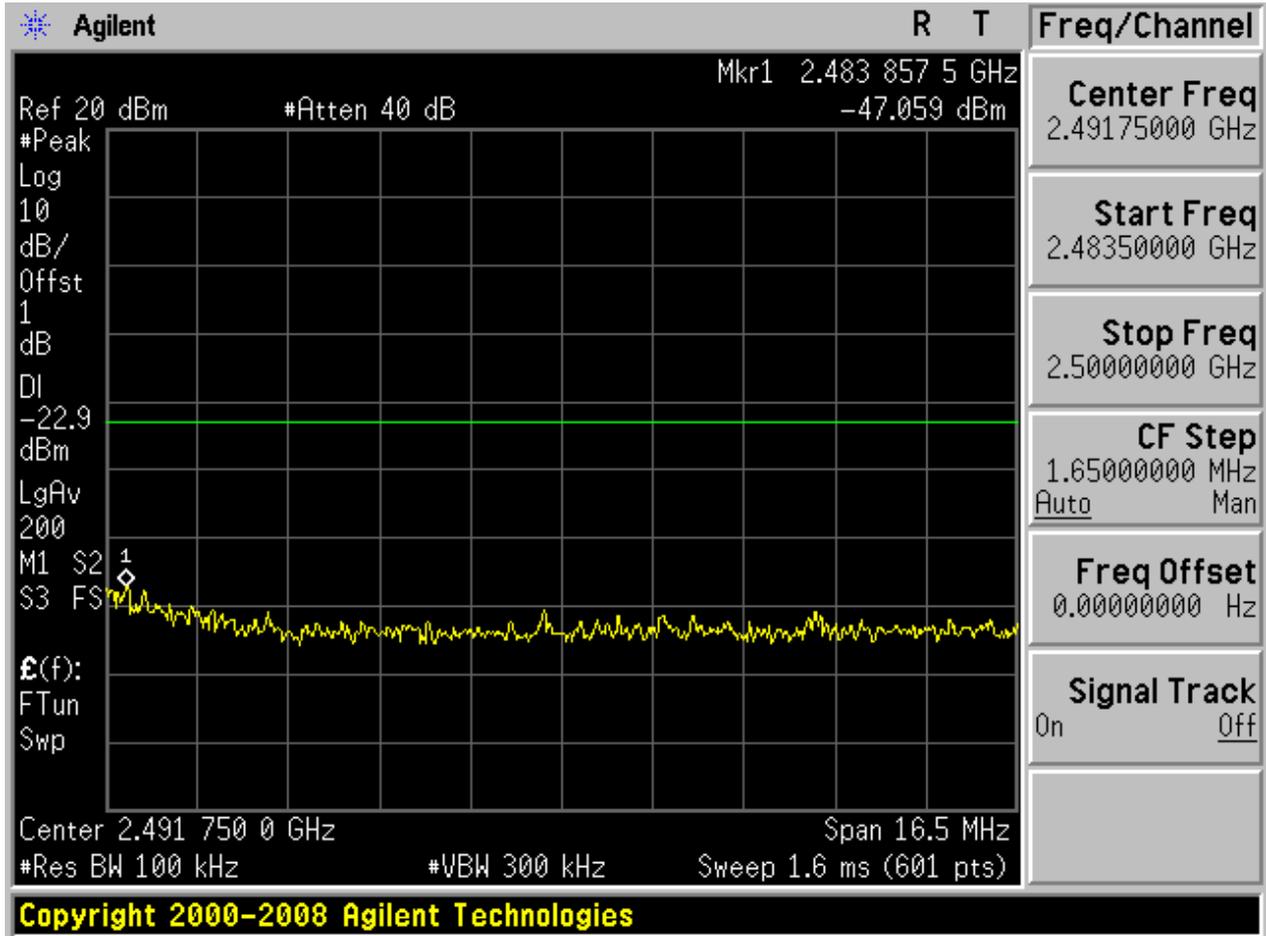
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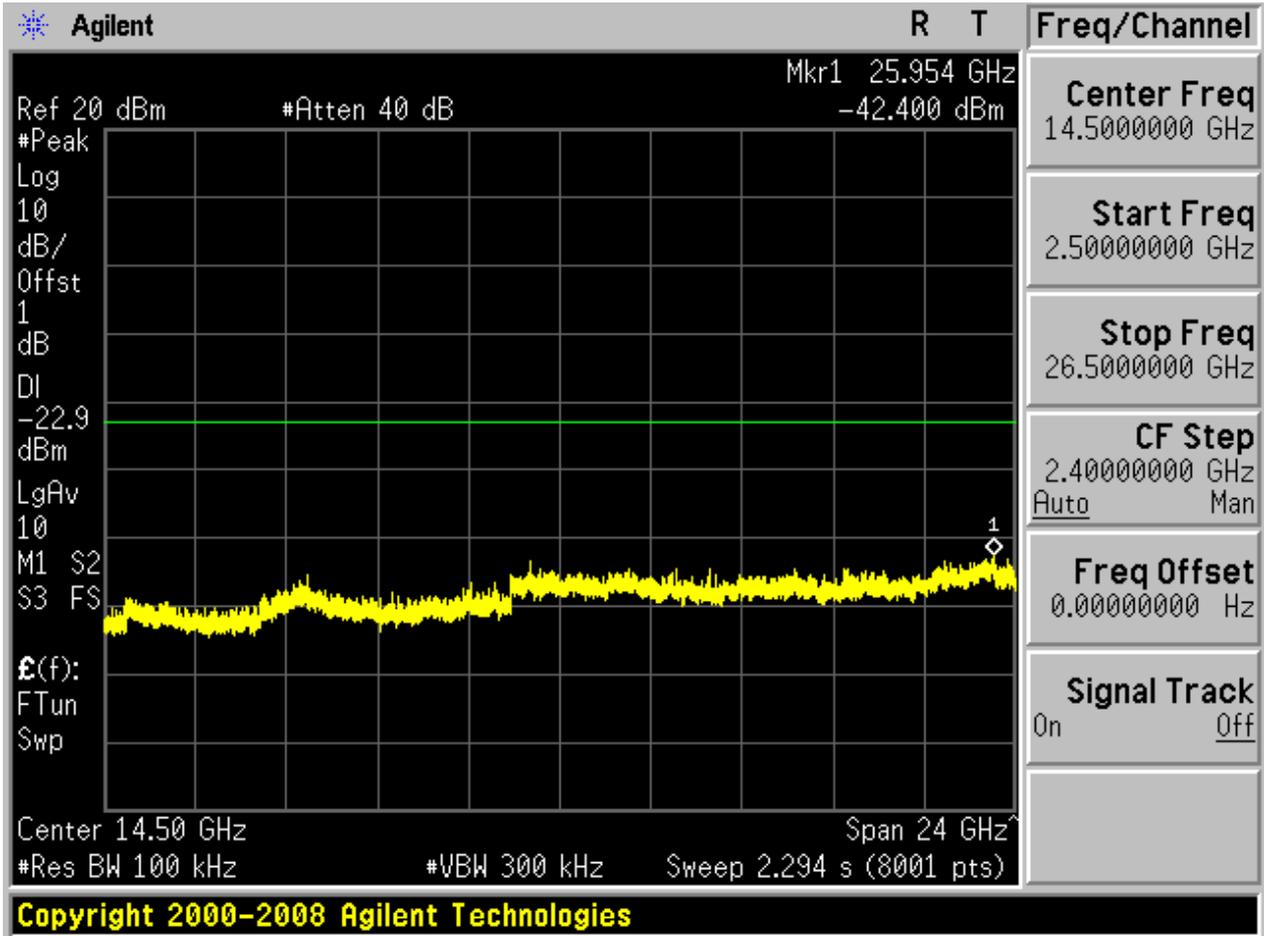








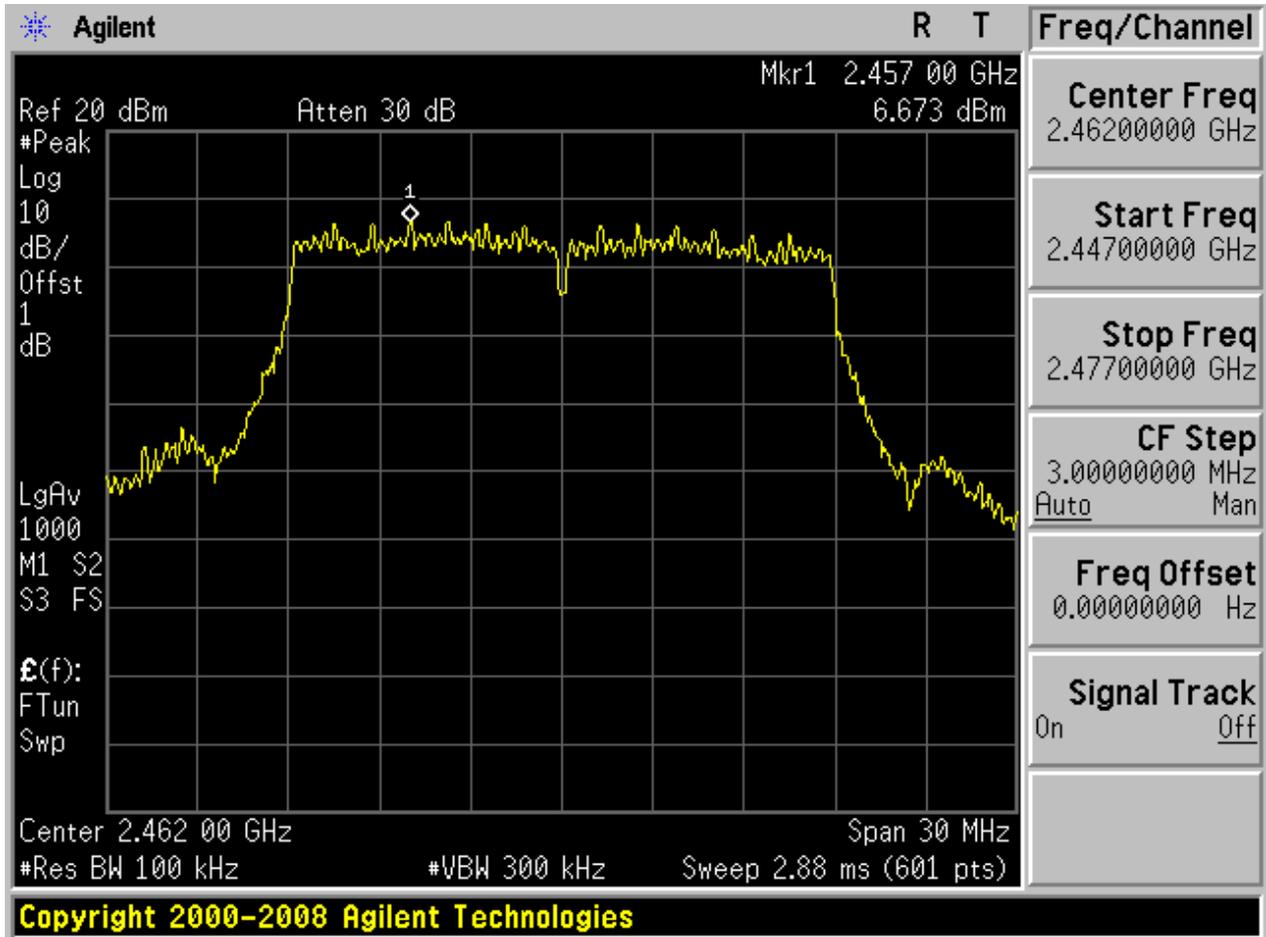






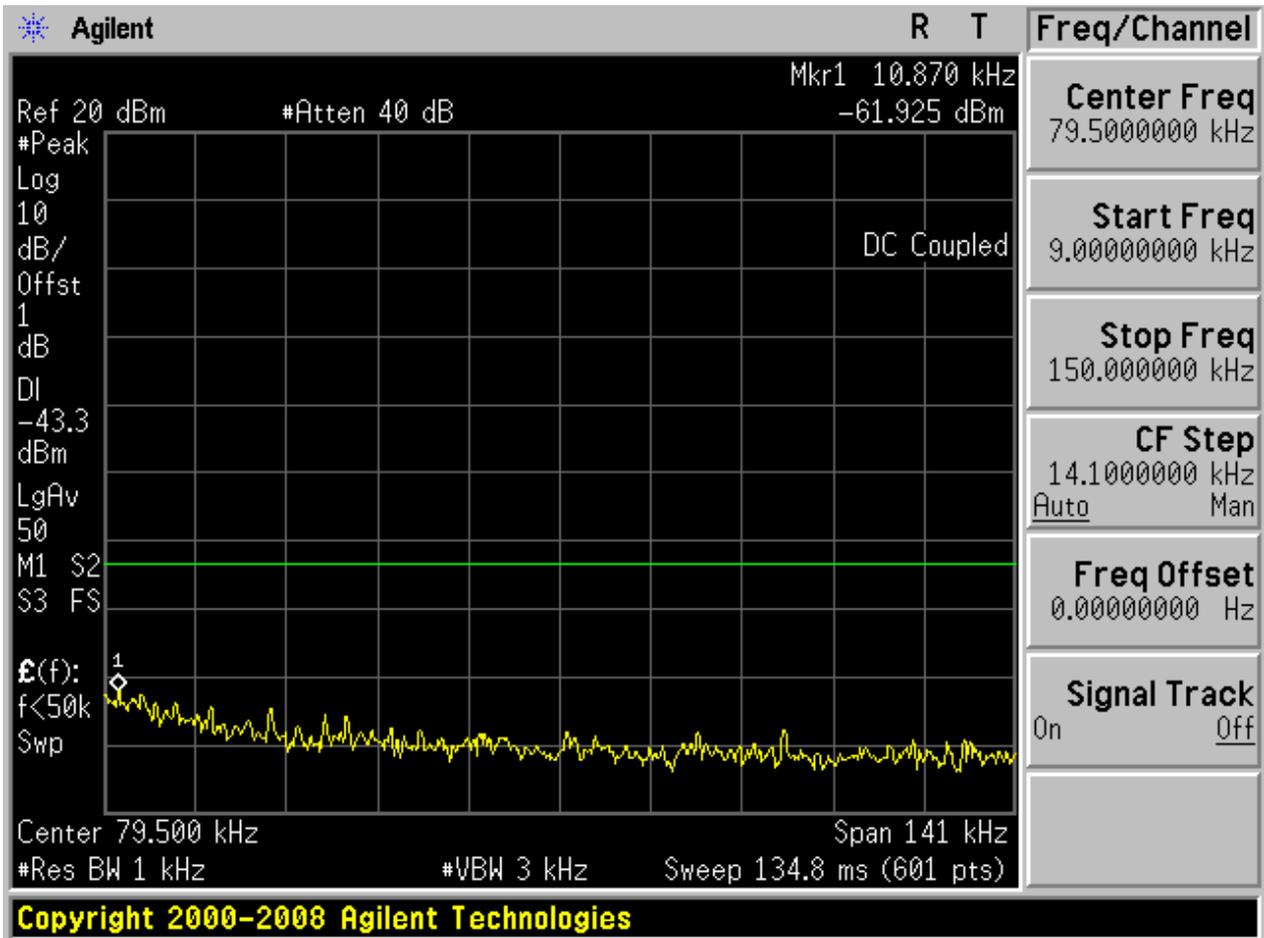
2.18 11N20\_H@Ant 2

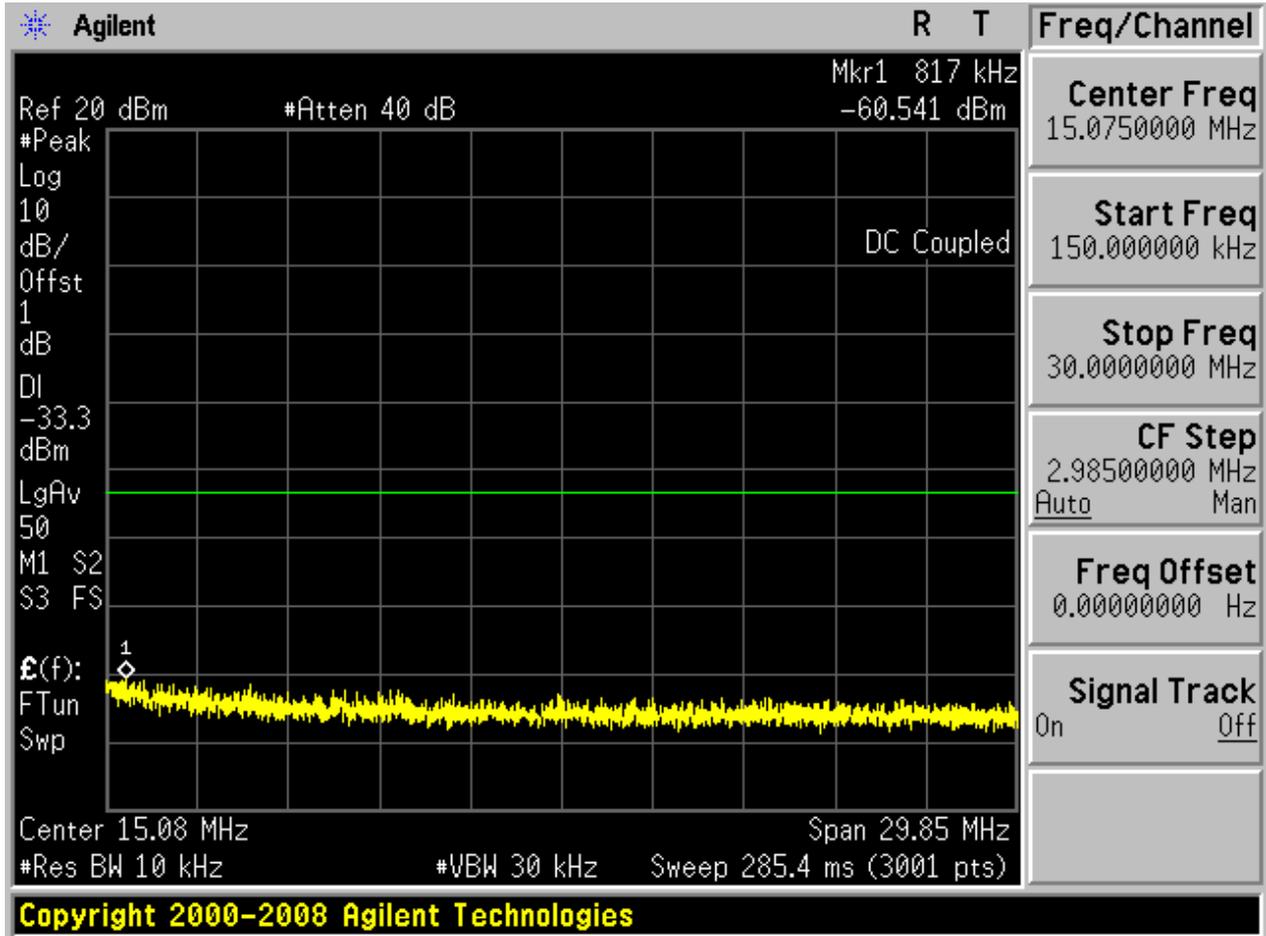
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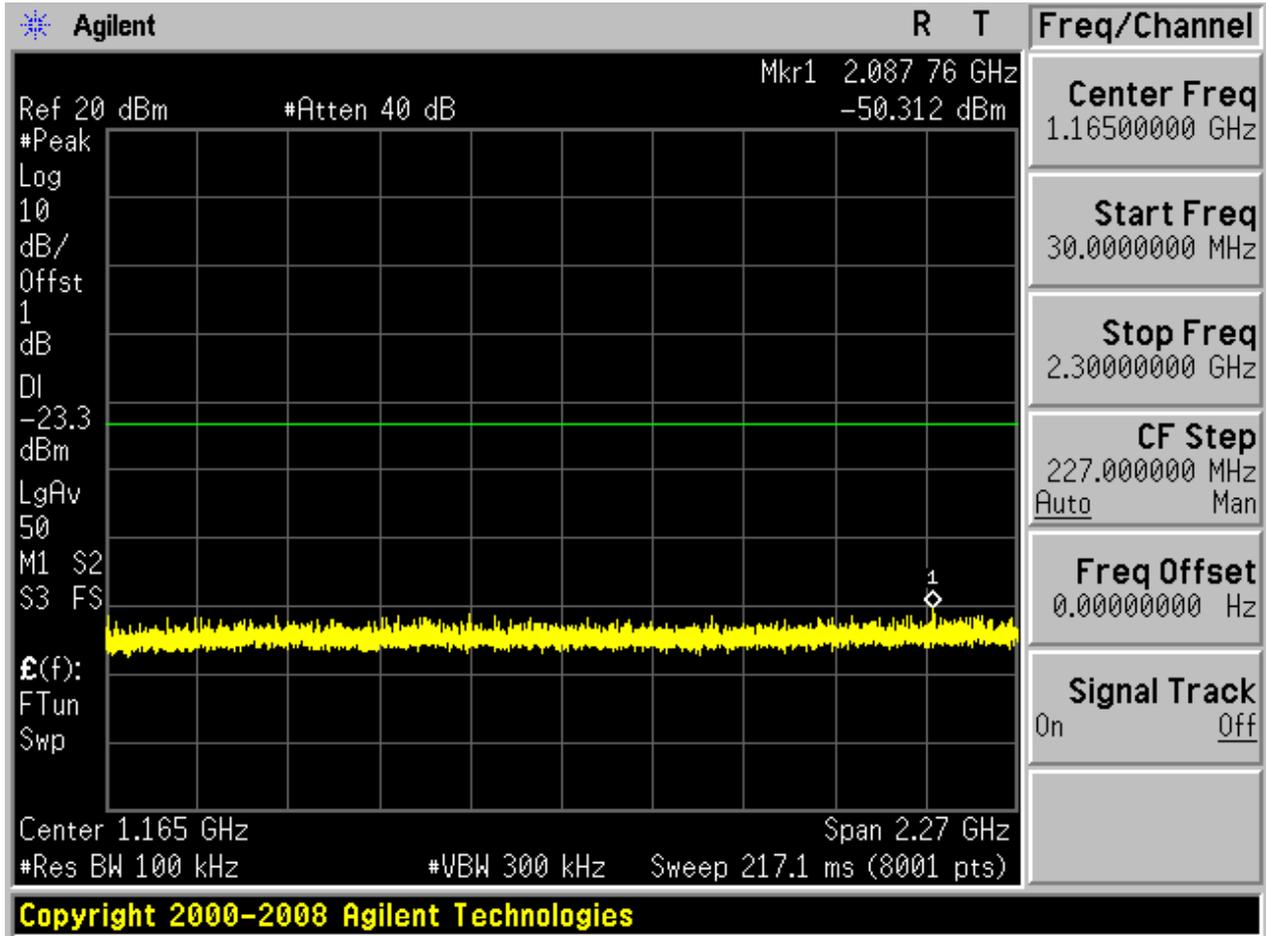


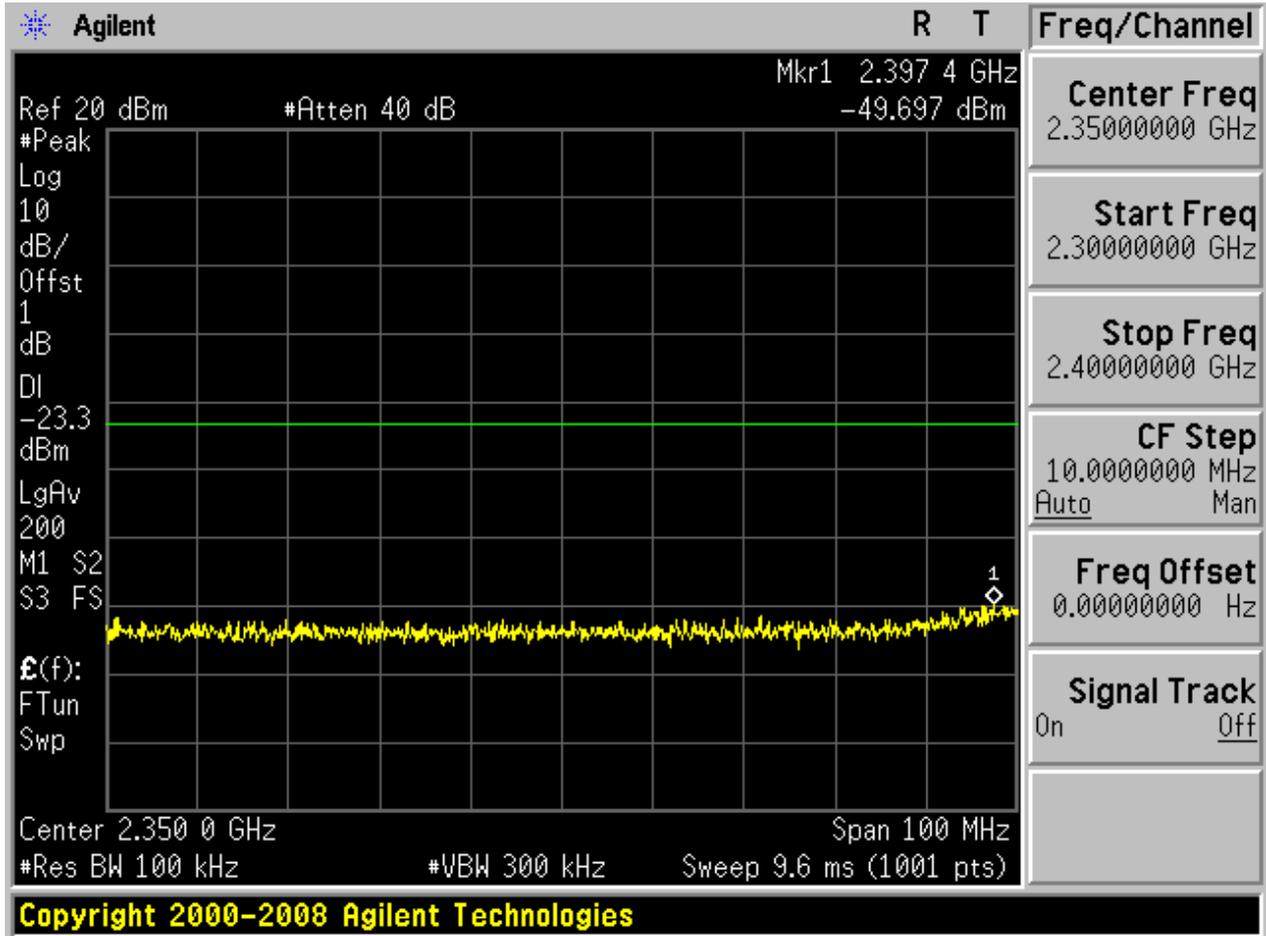


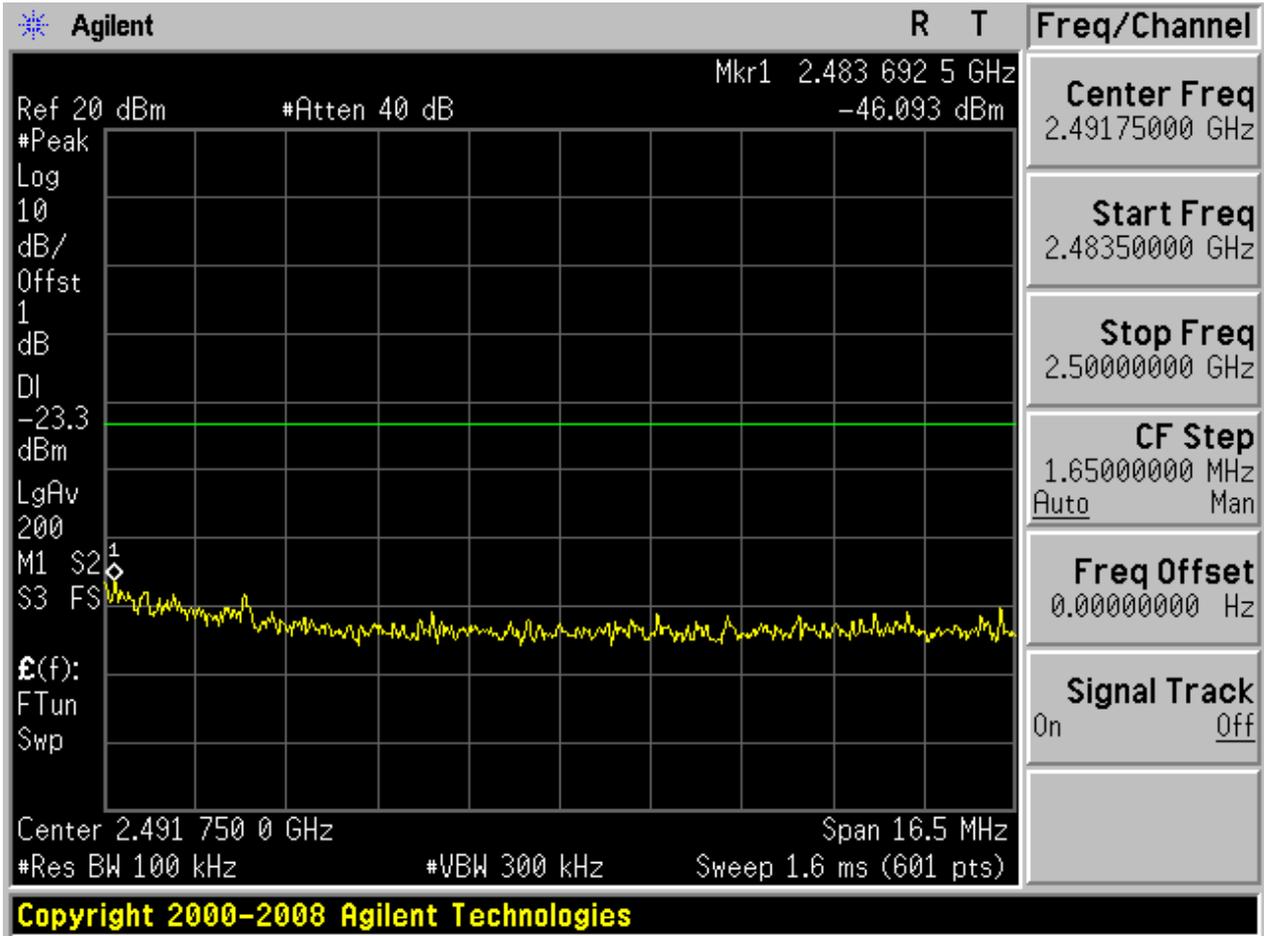
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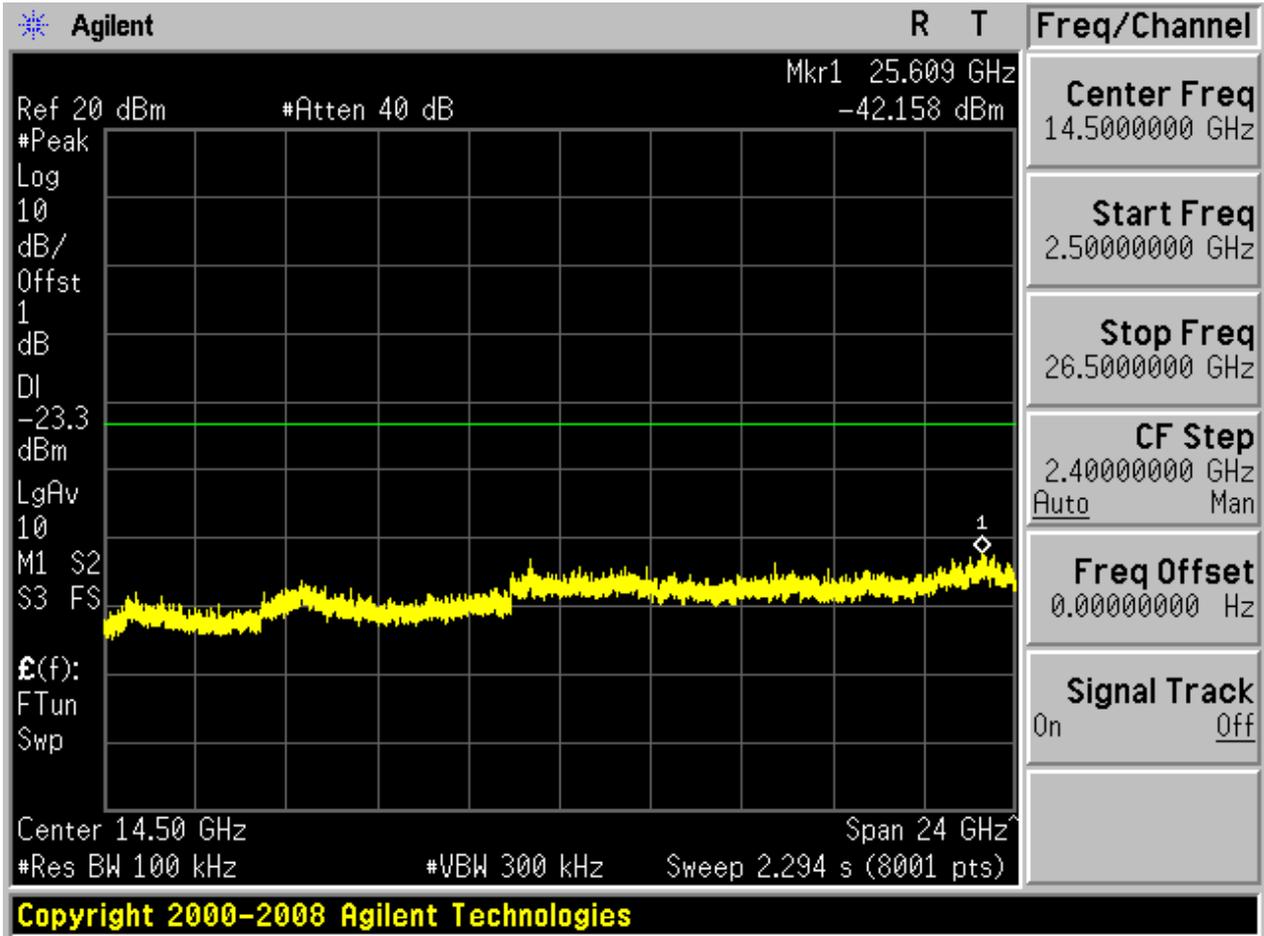








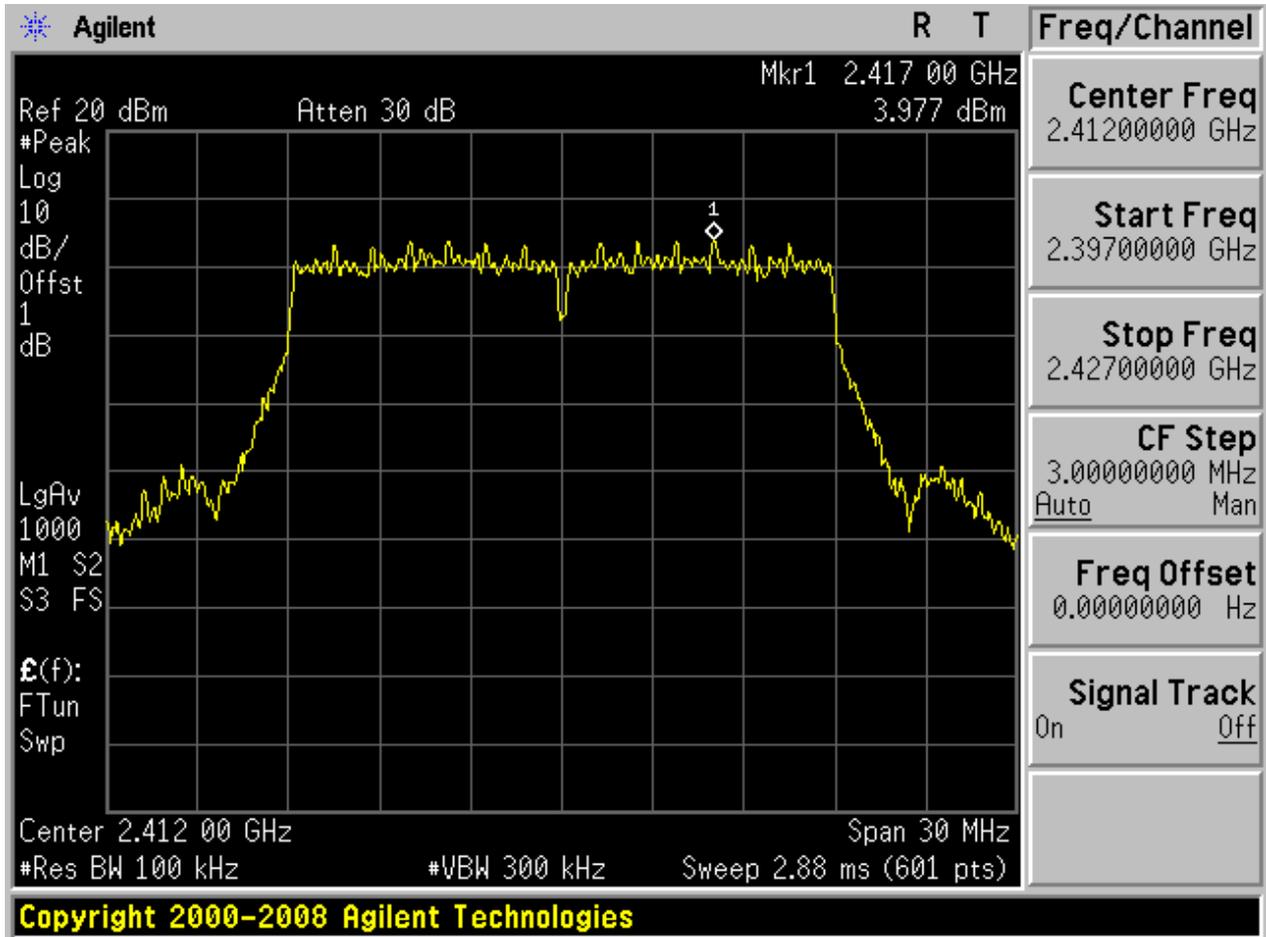






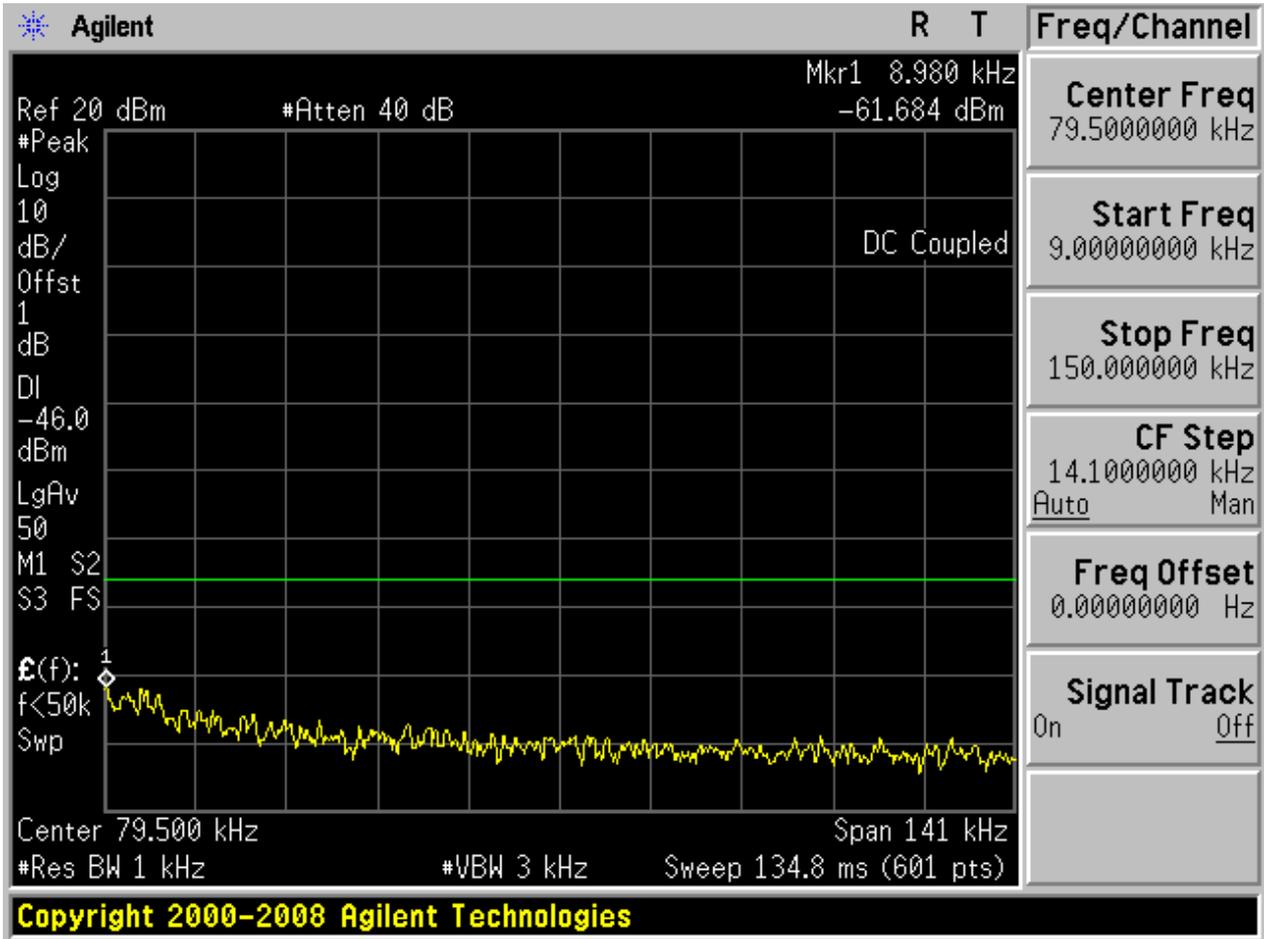
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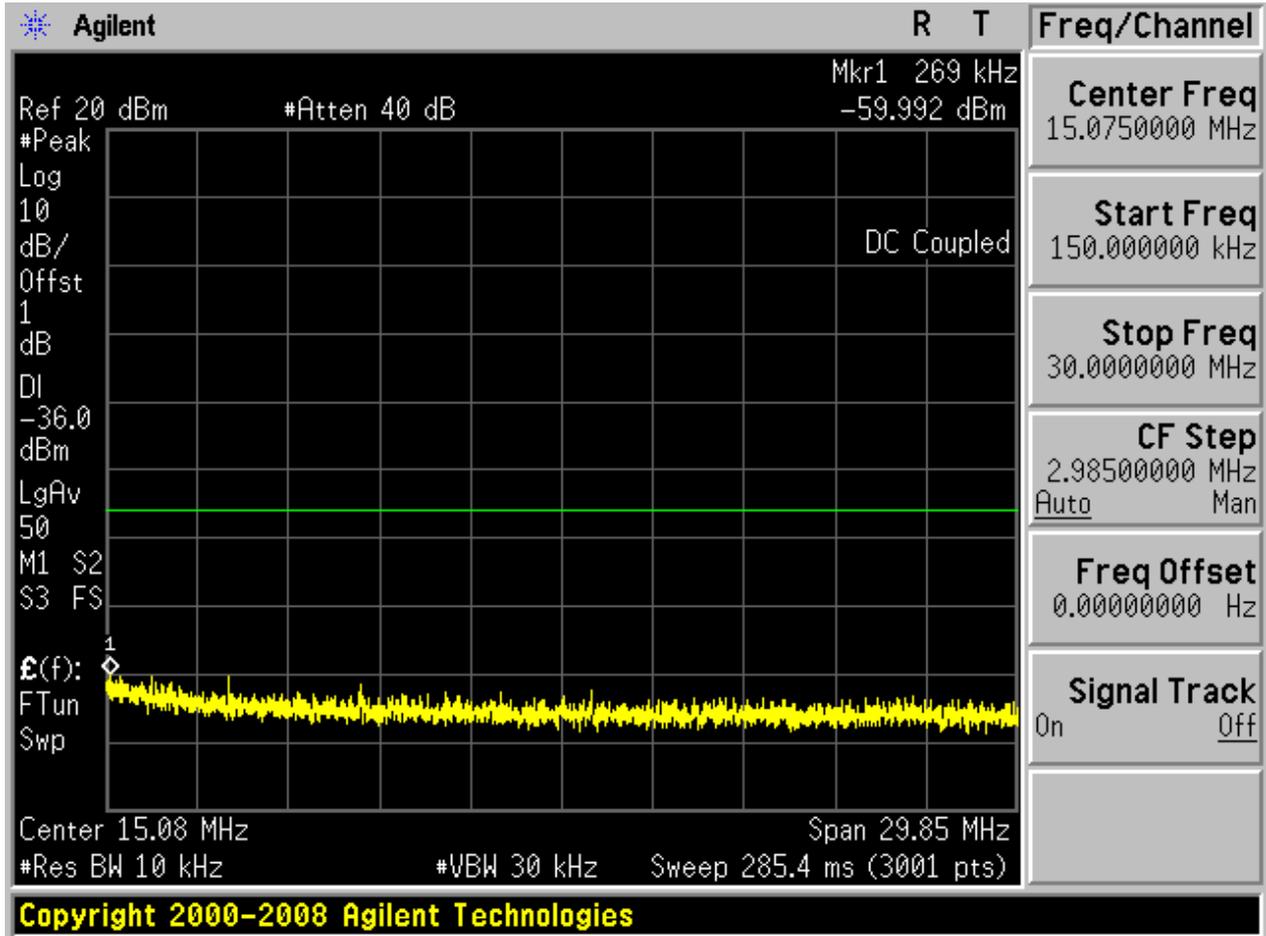
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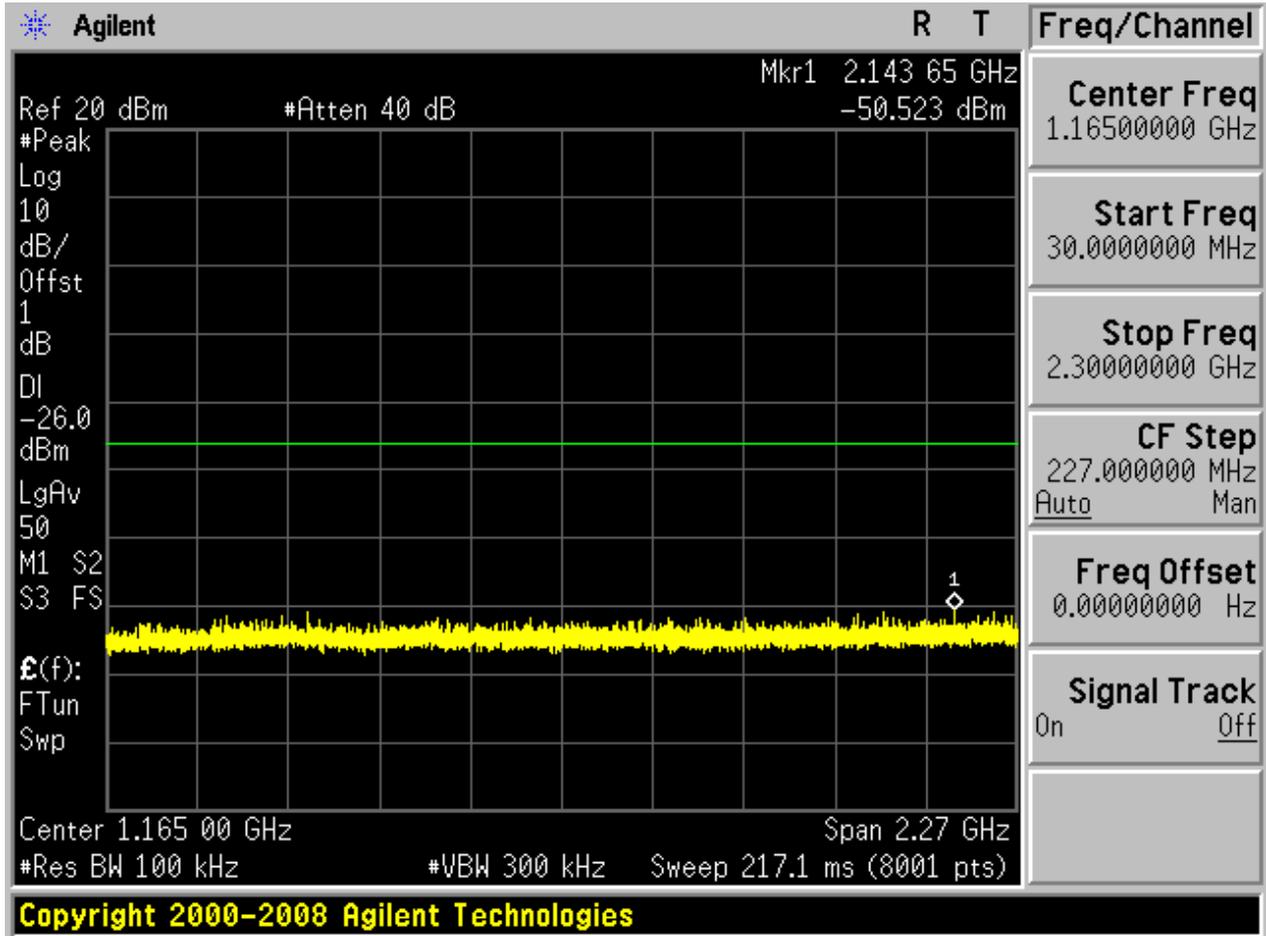


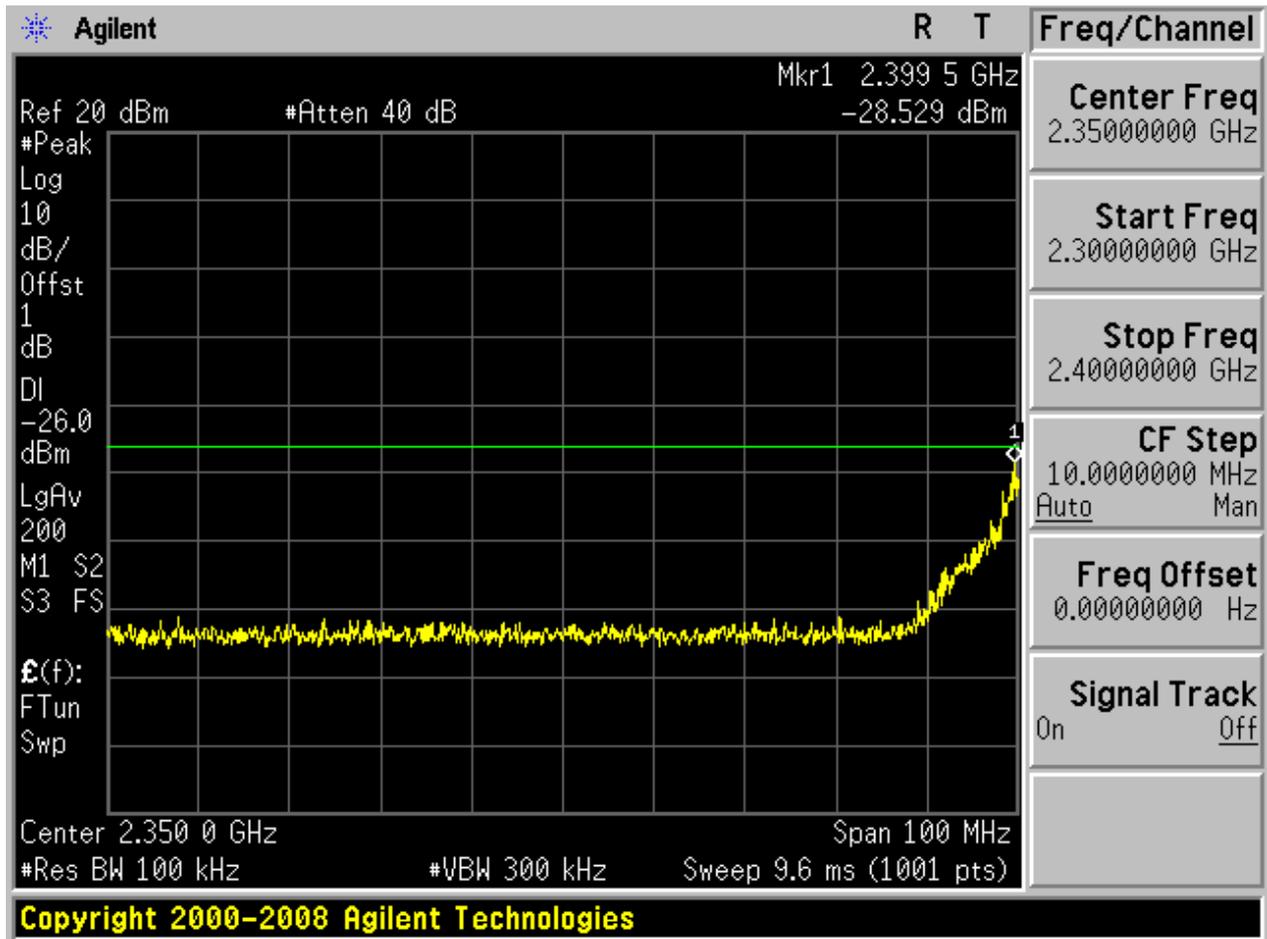


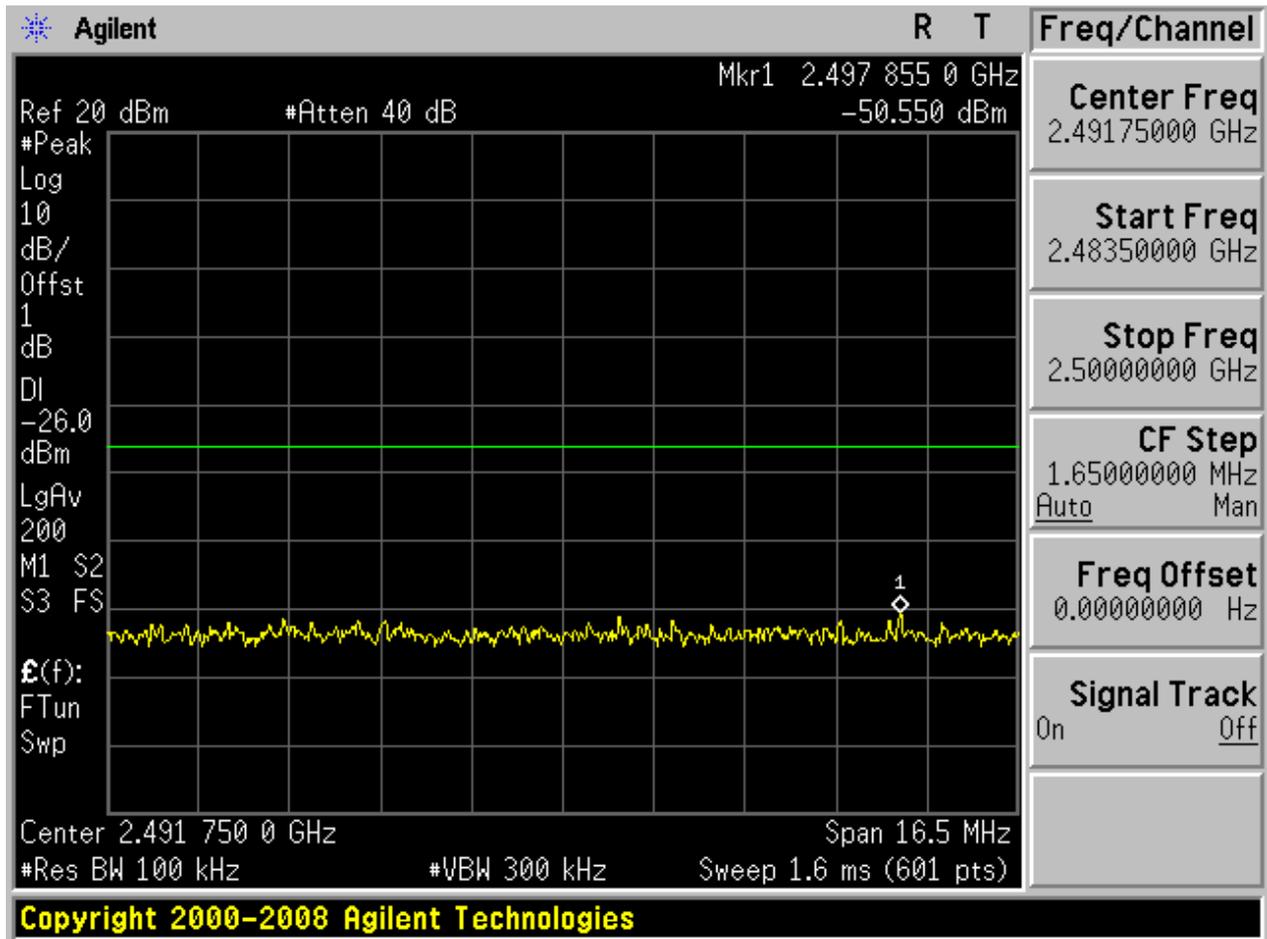
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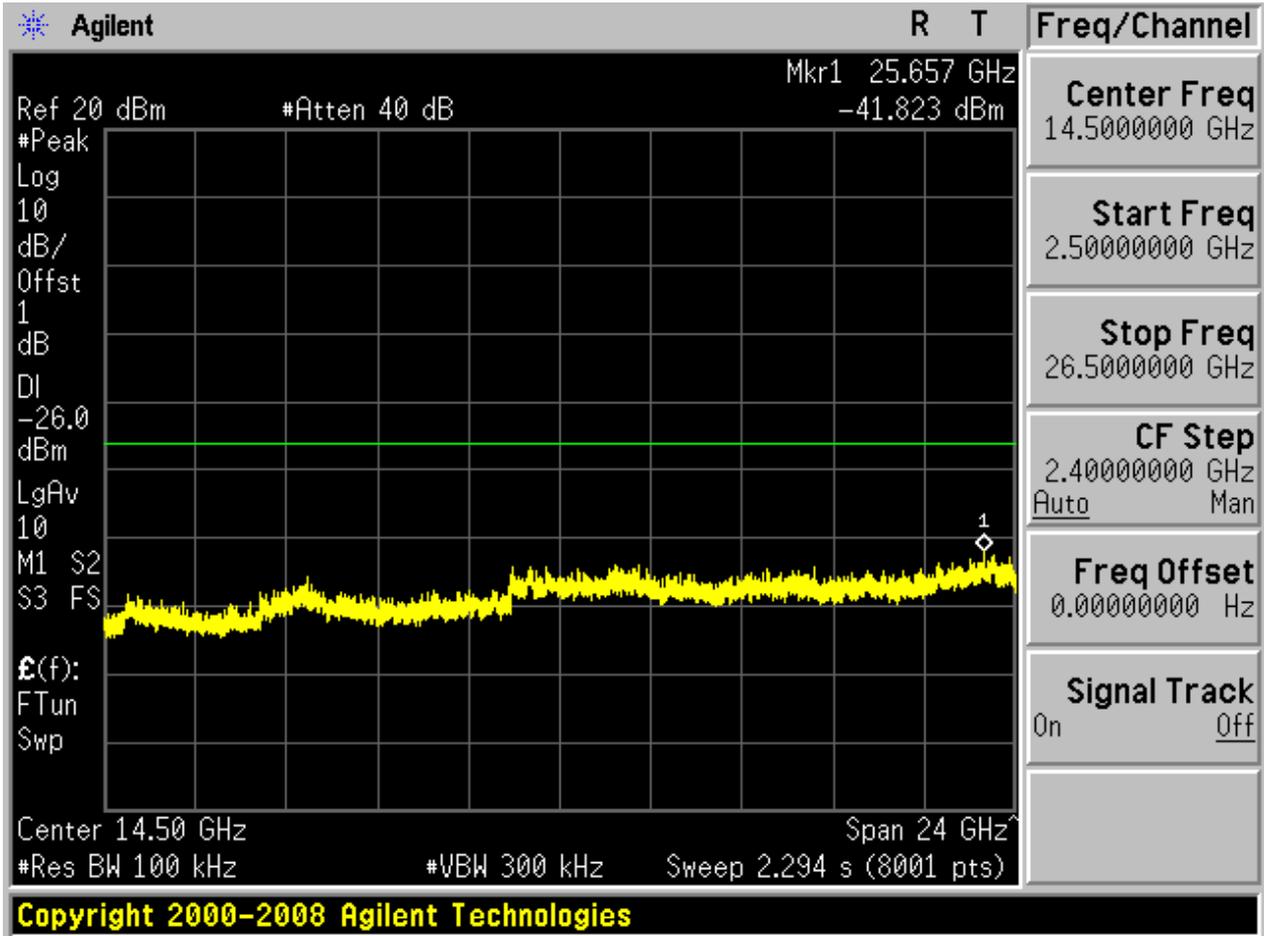








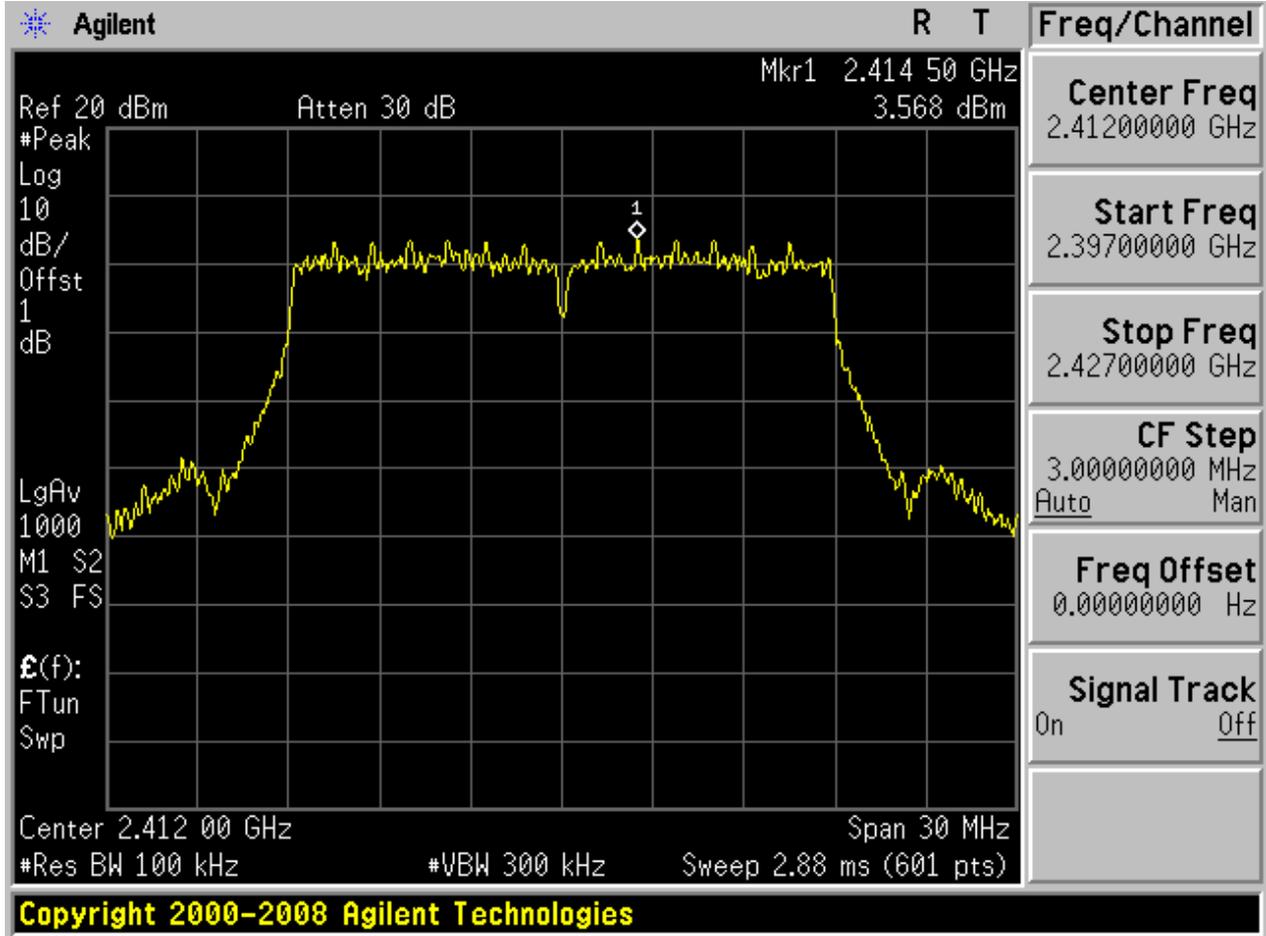






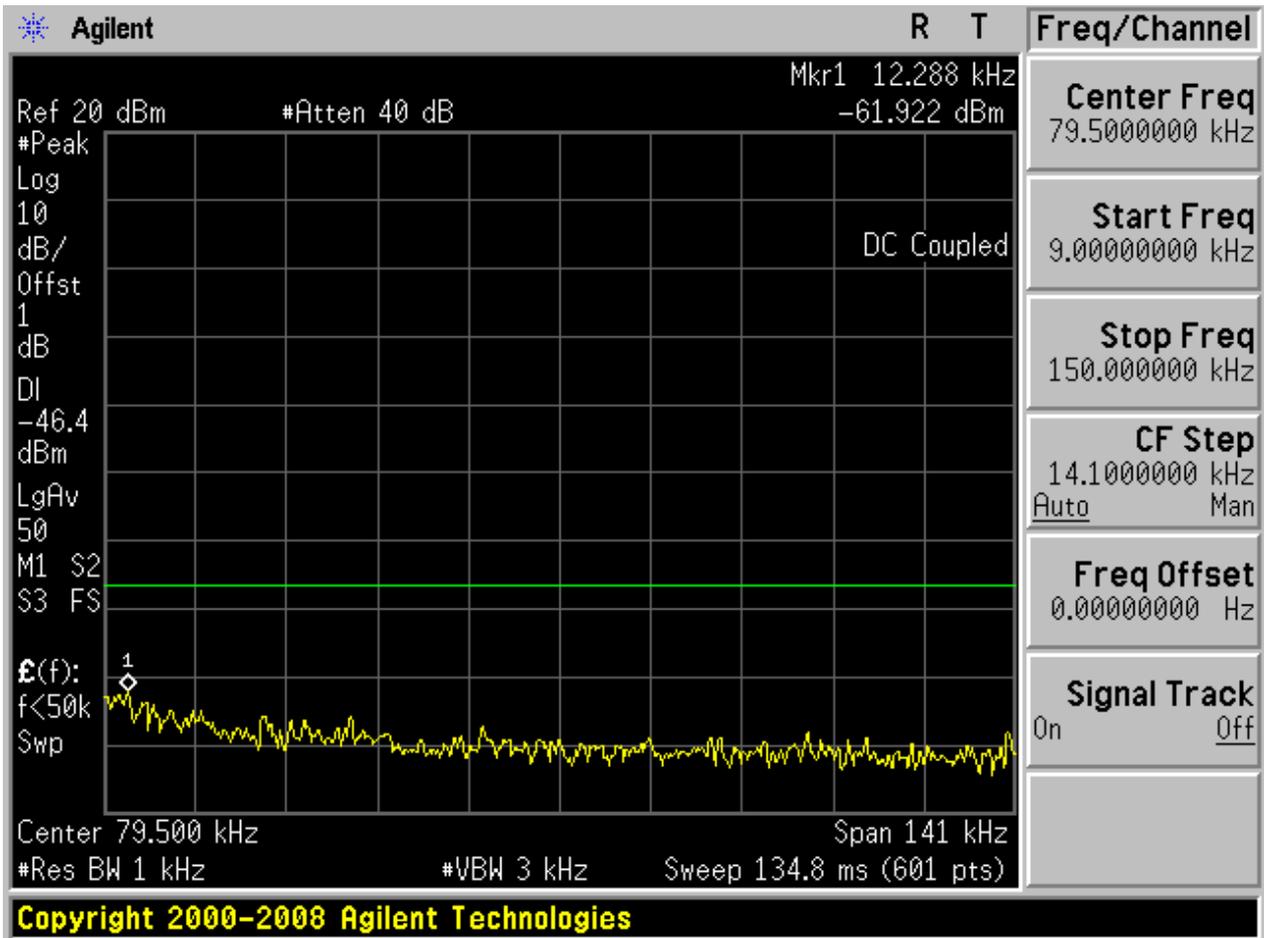
2.14 11N20m\_L@Ant 2

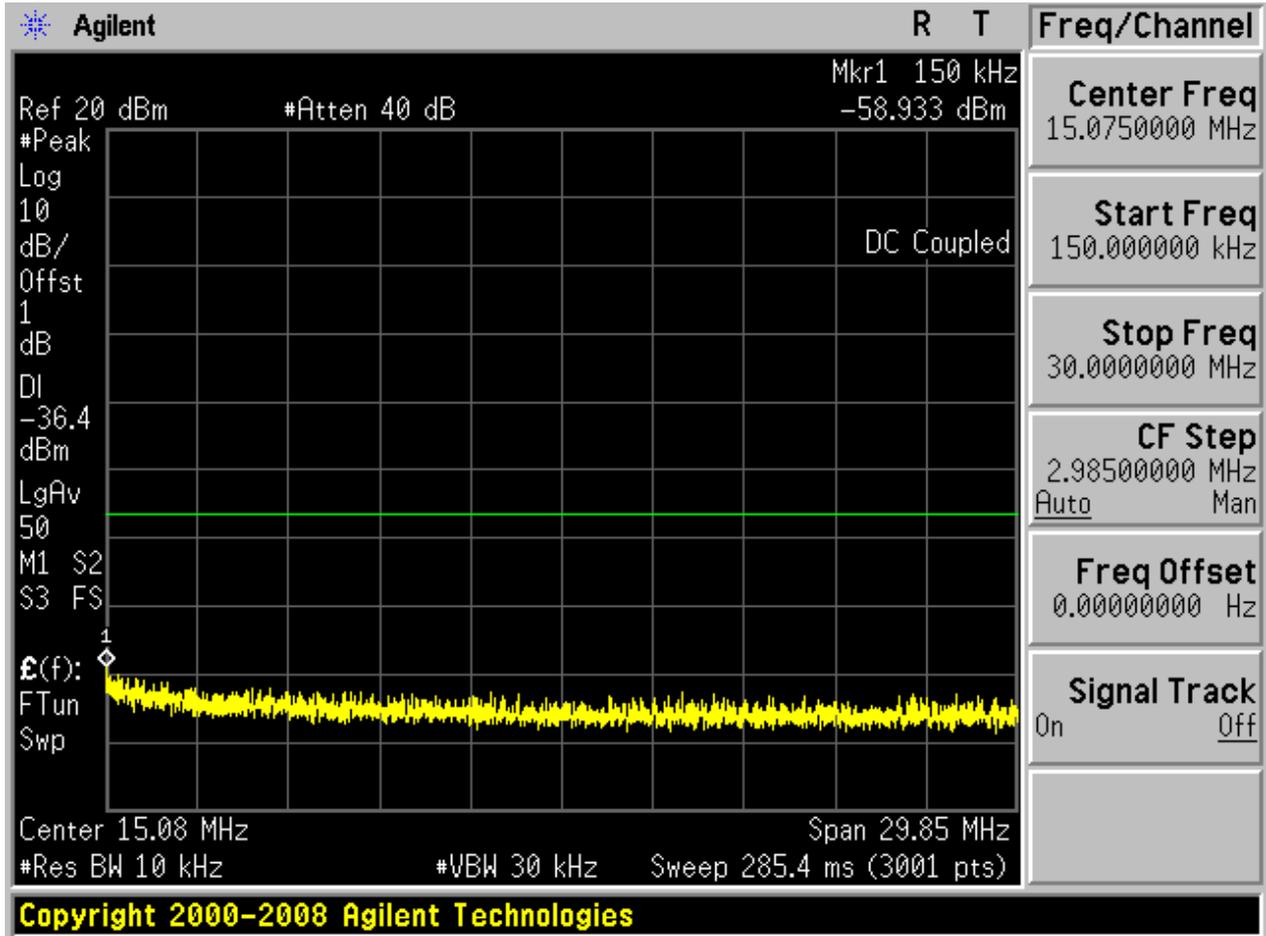
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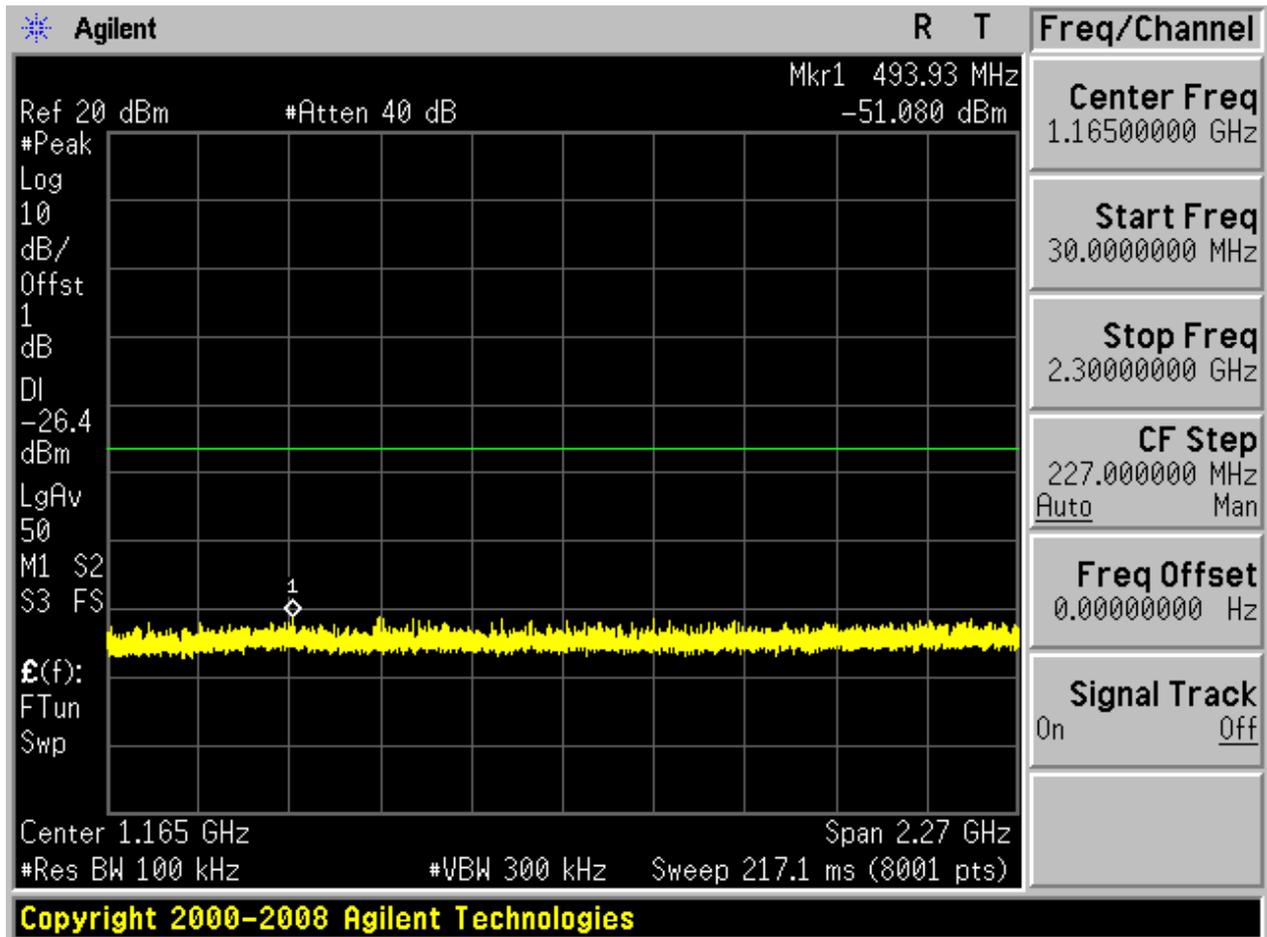


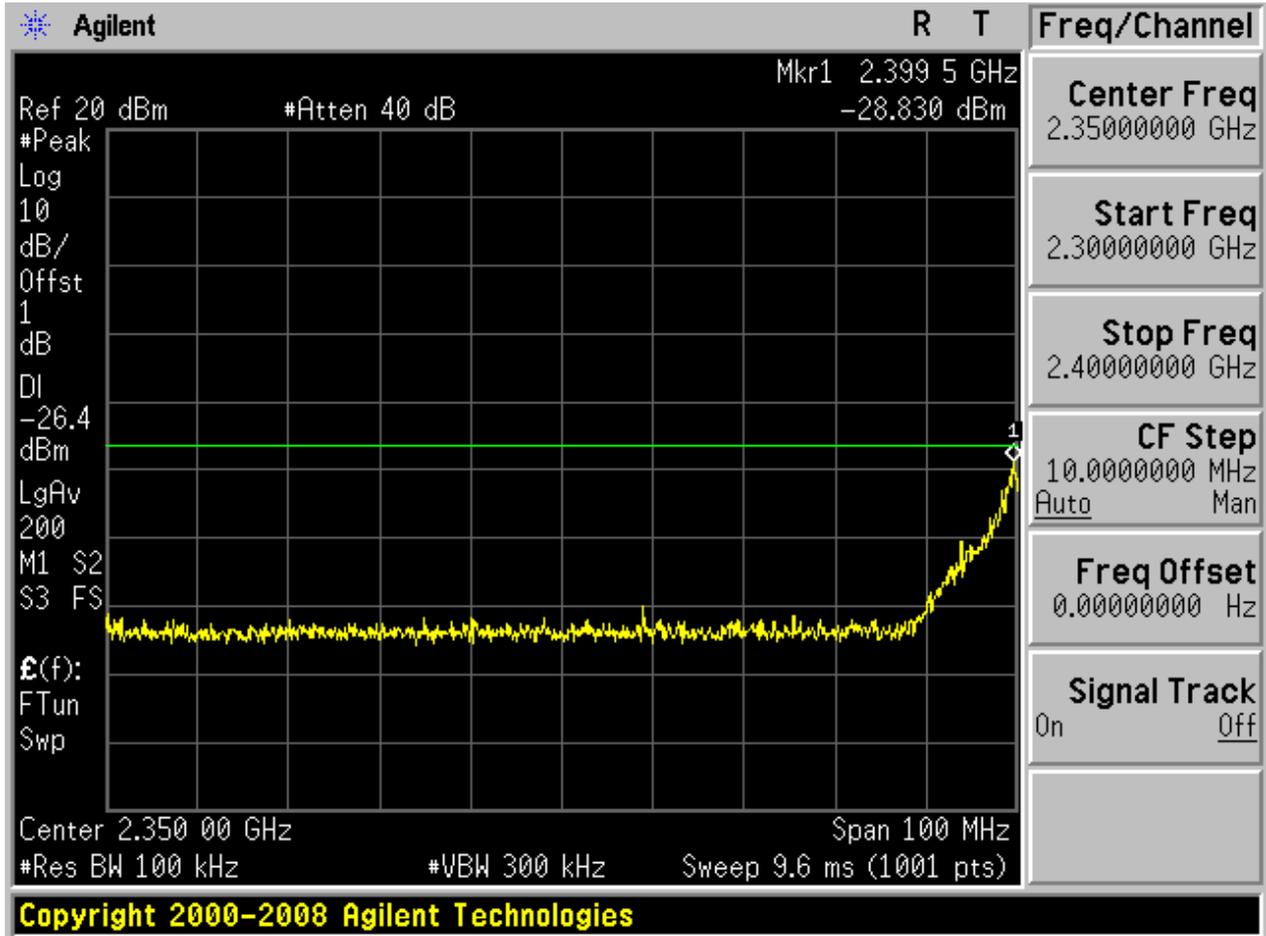


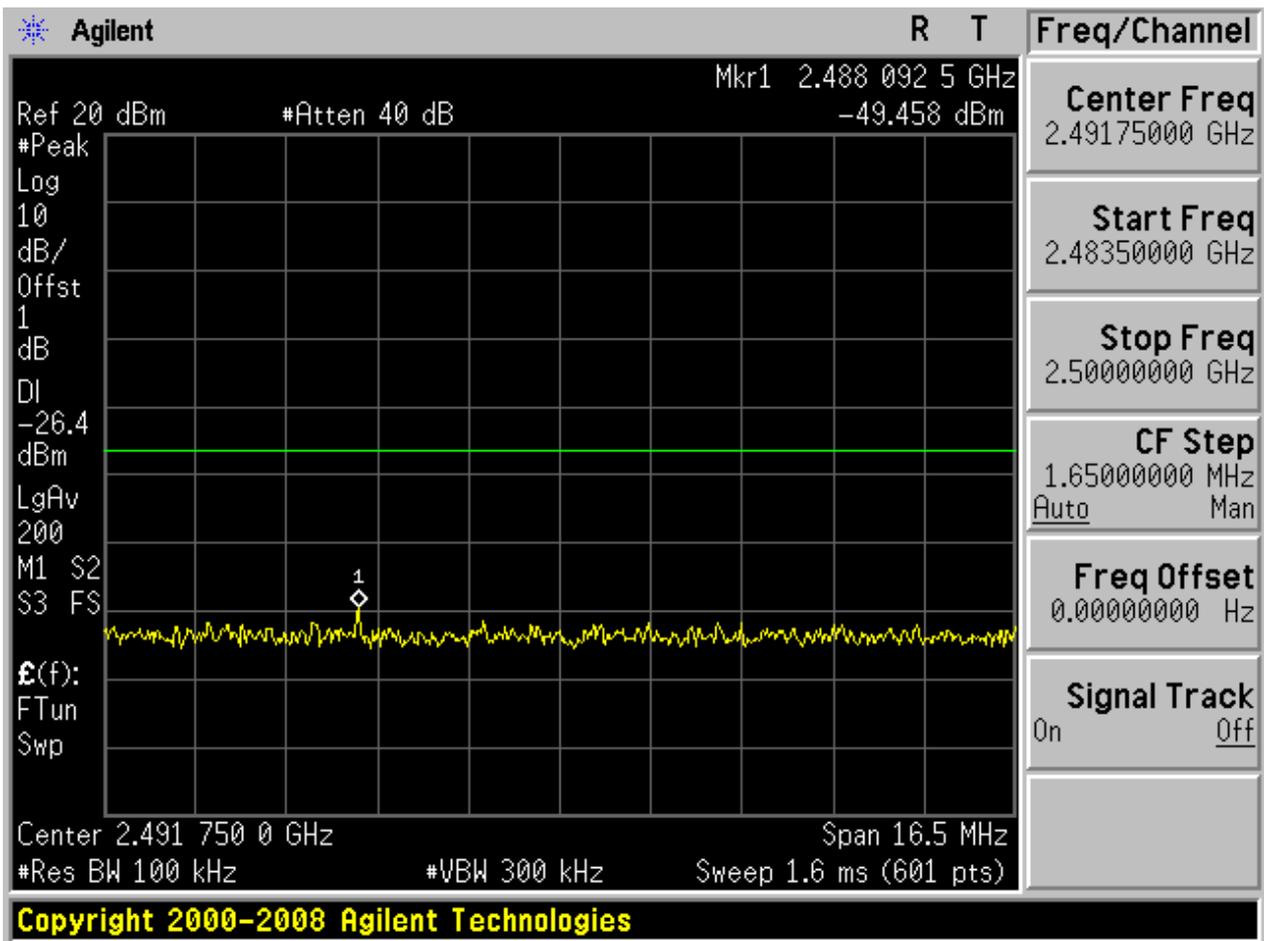
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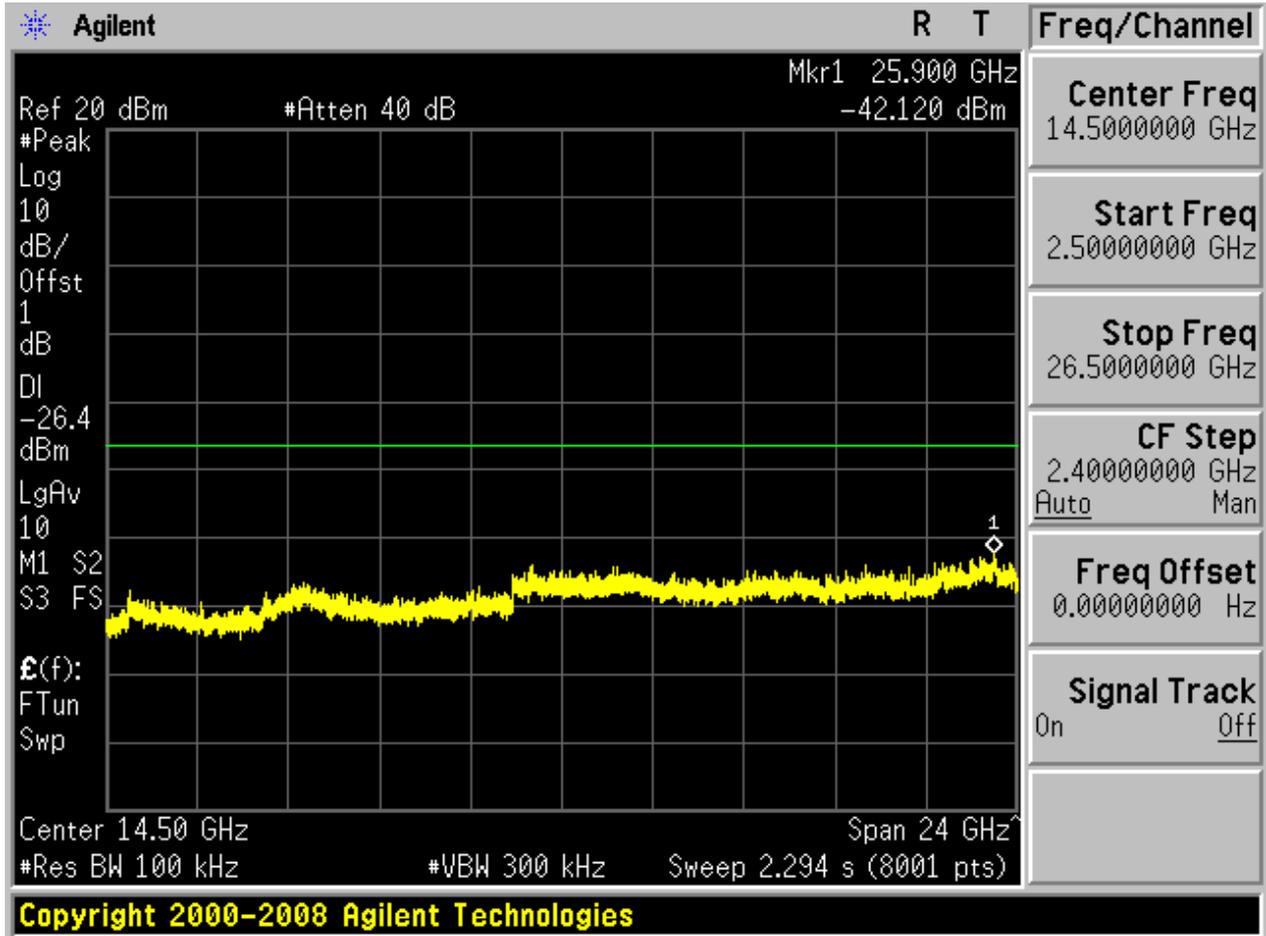








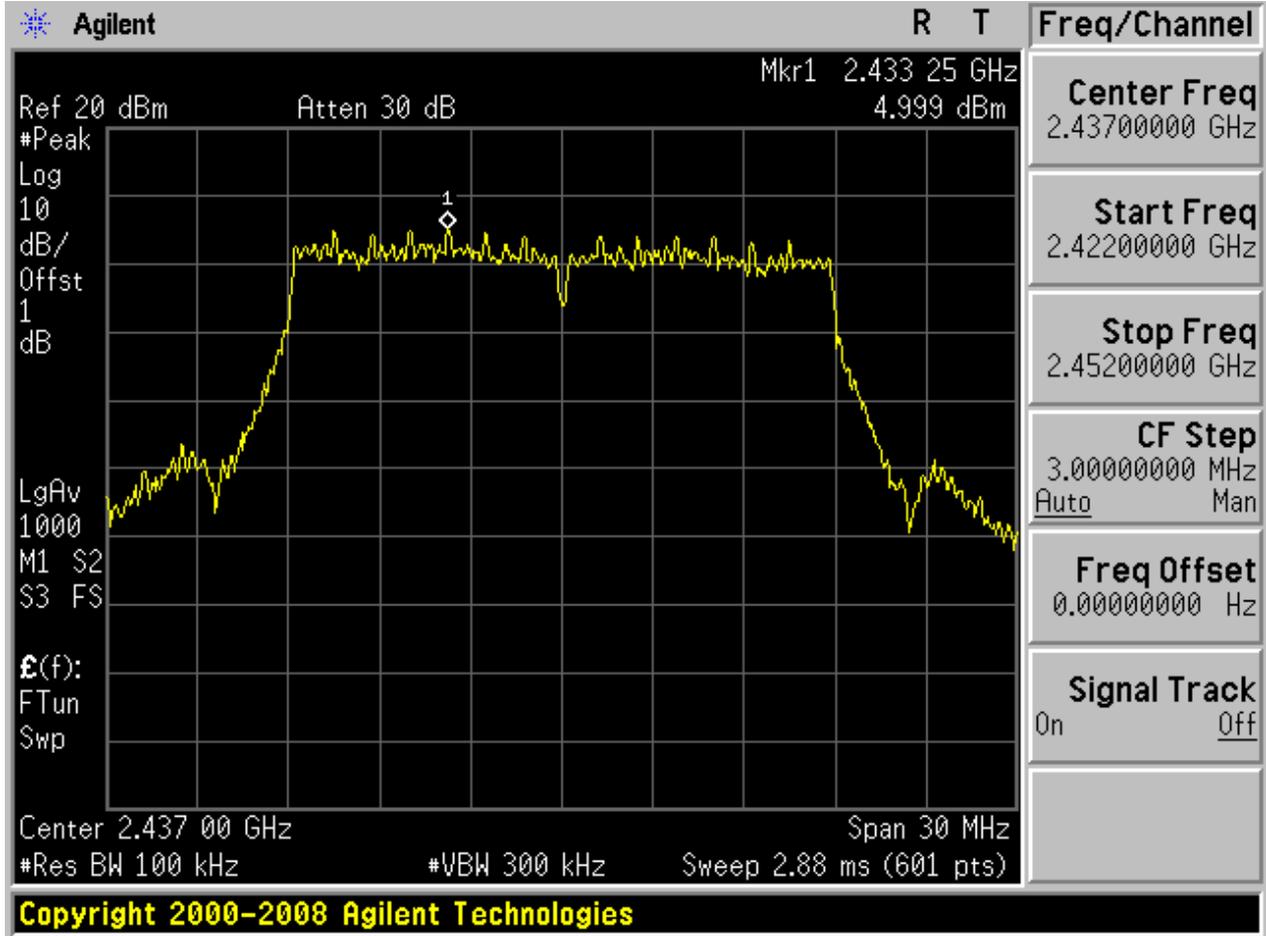






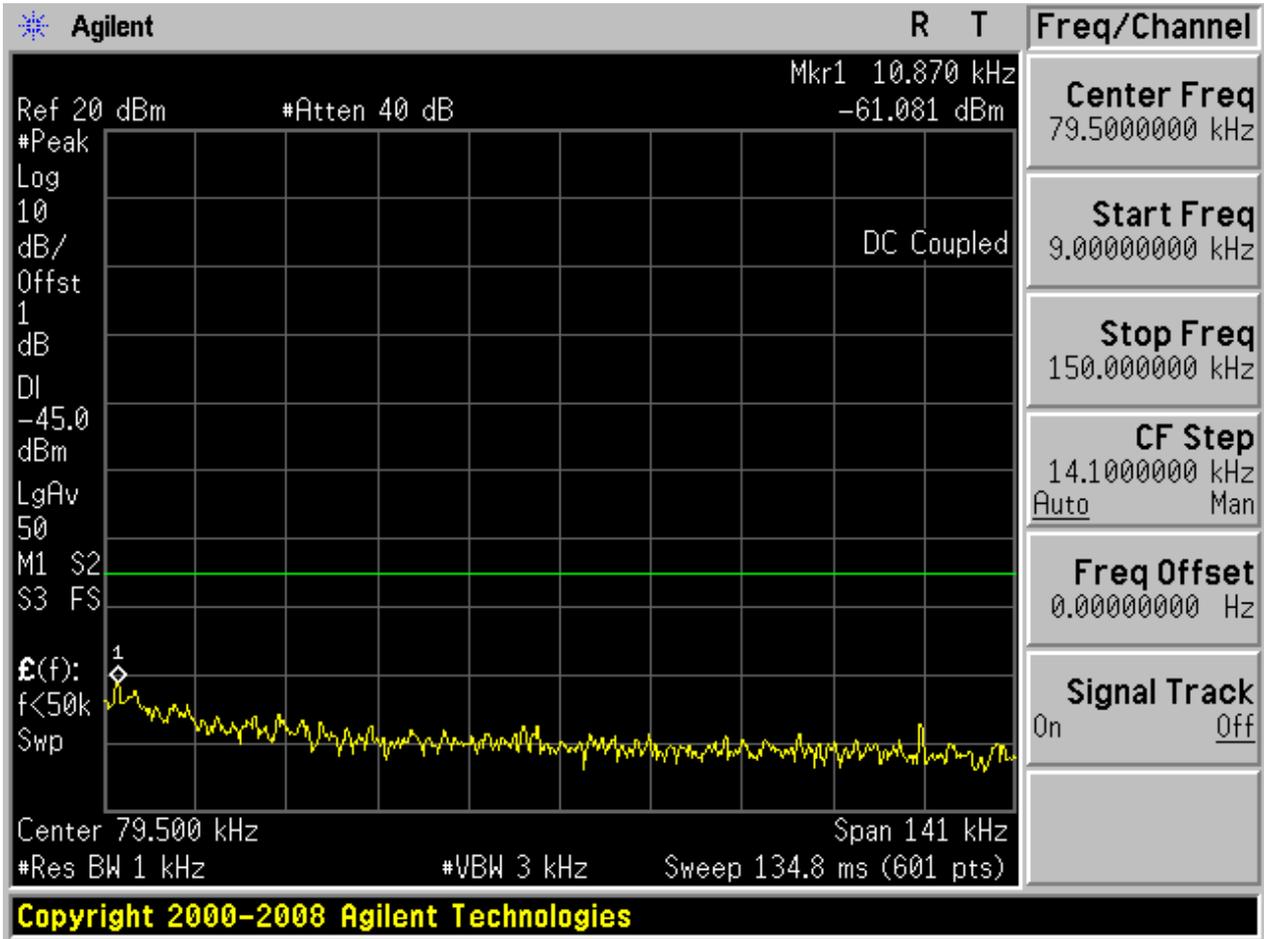
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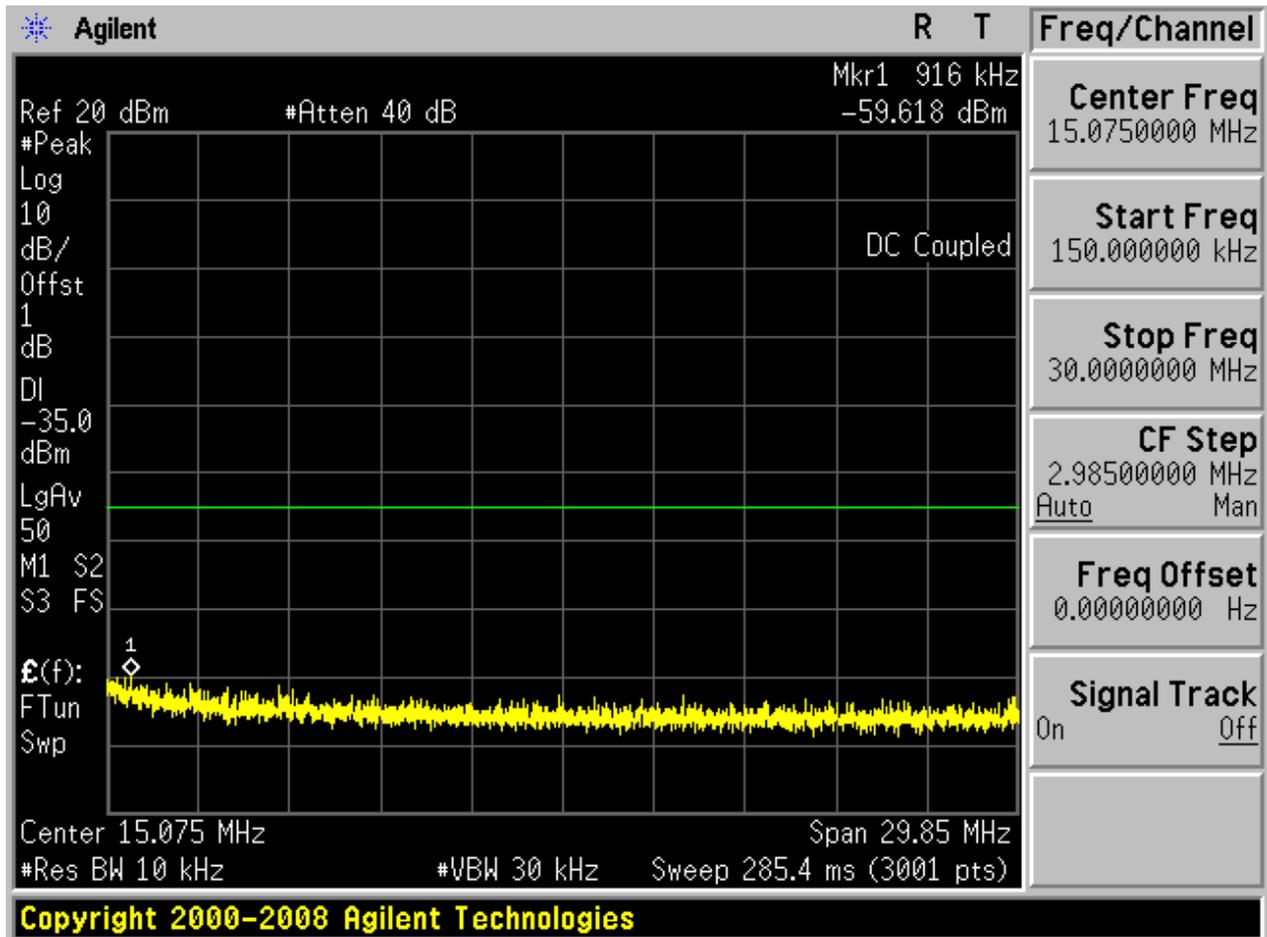
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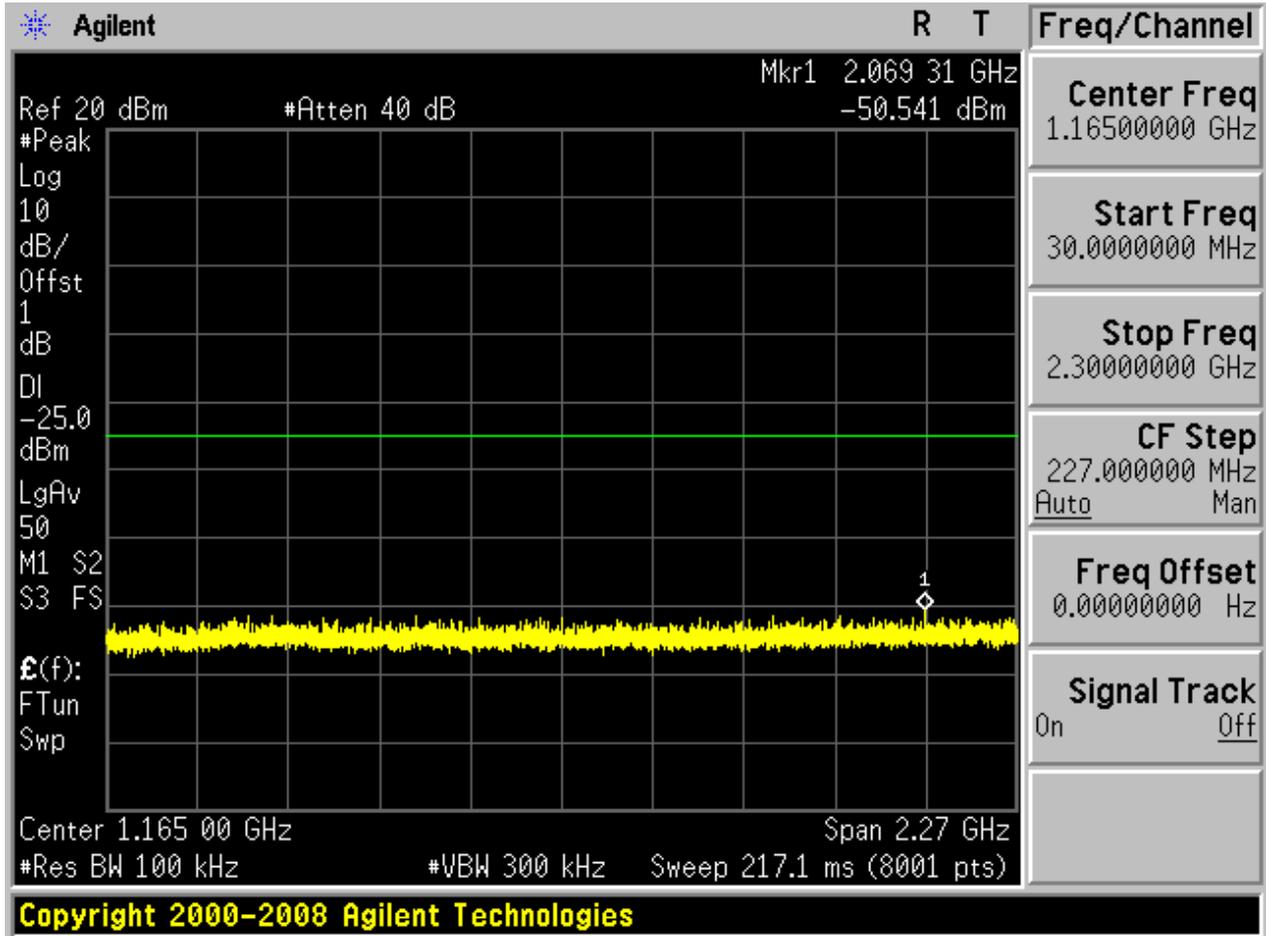


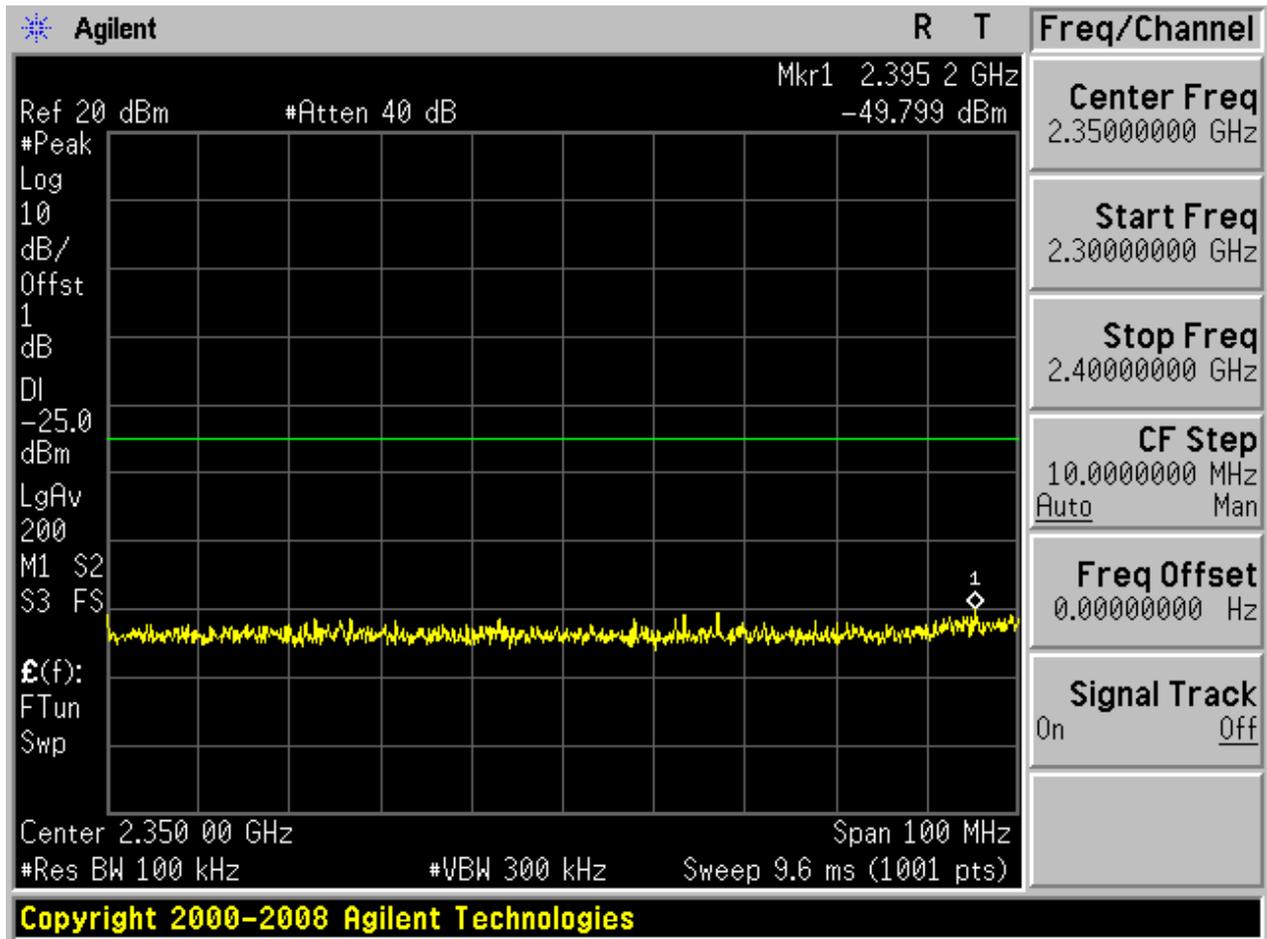


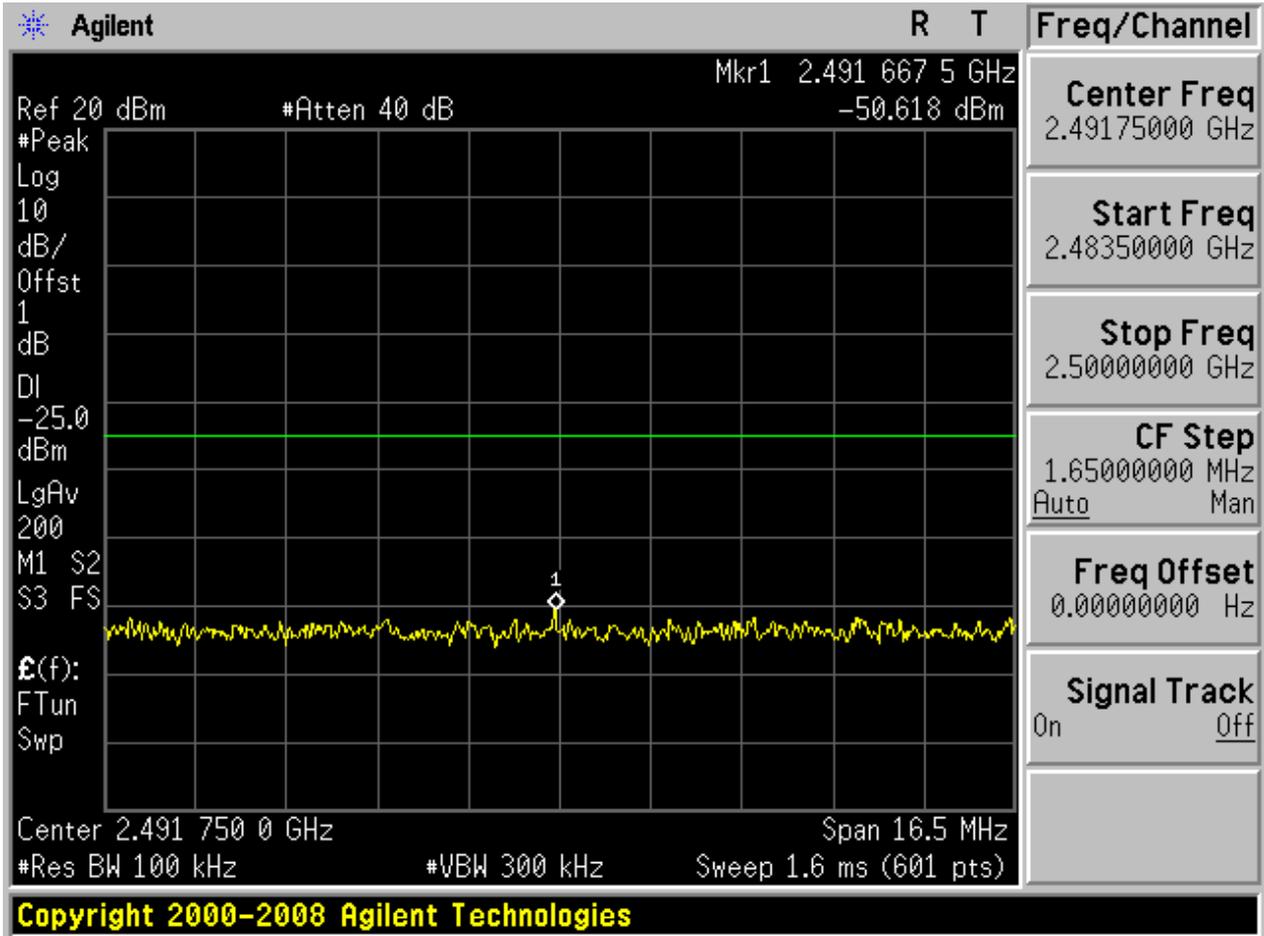
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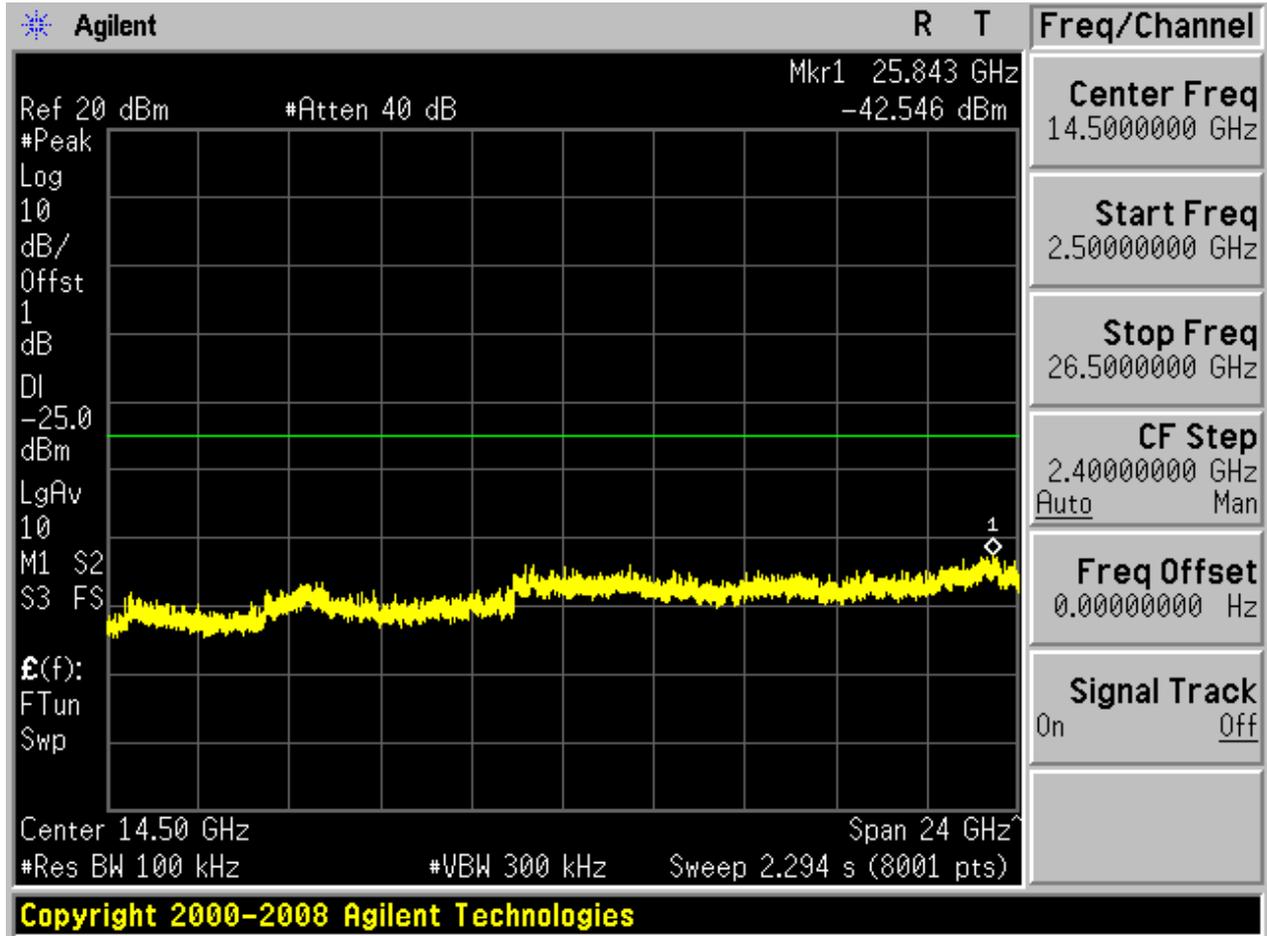








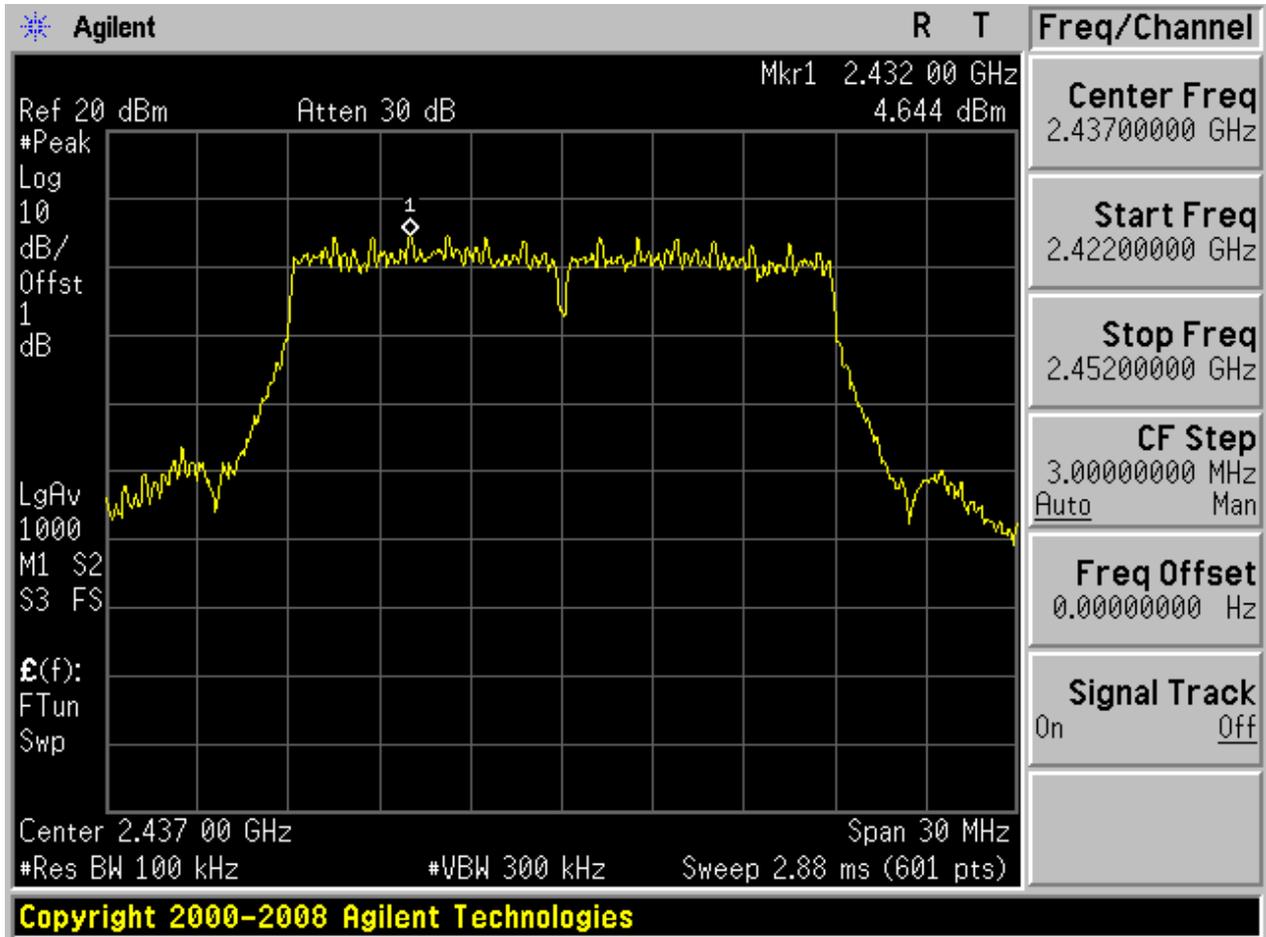






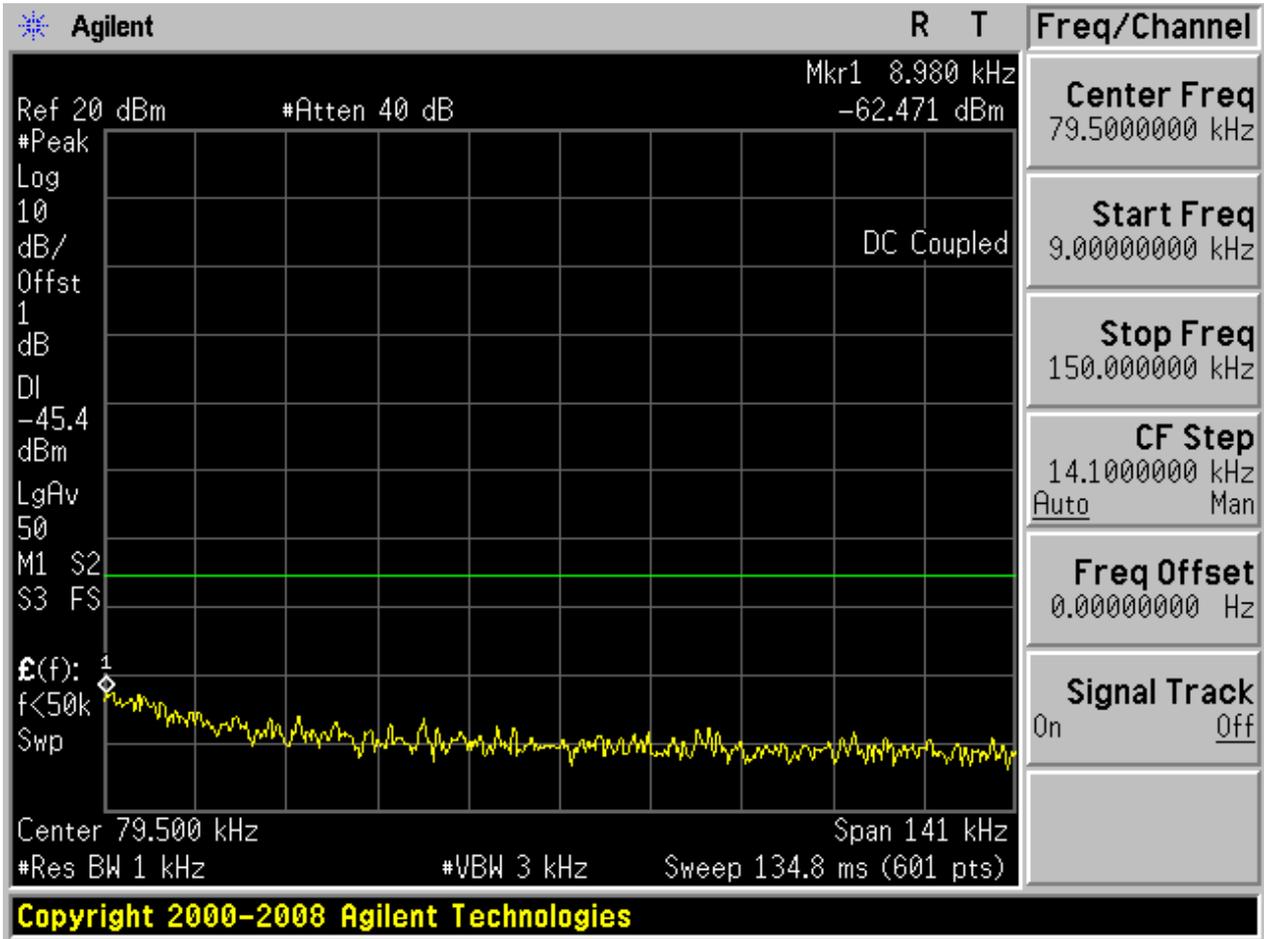
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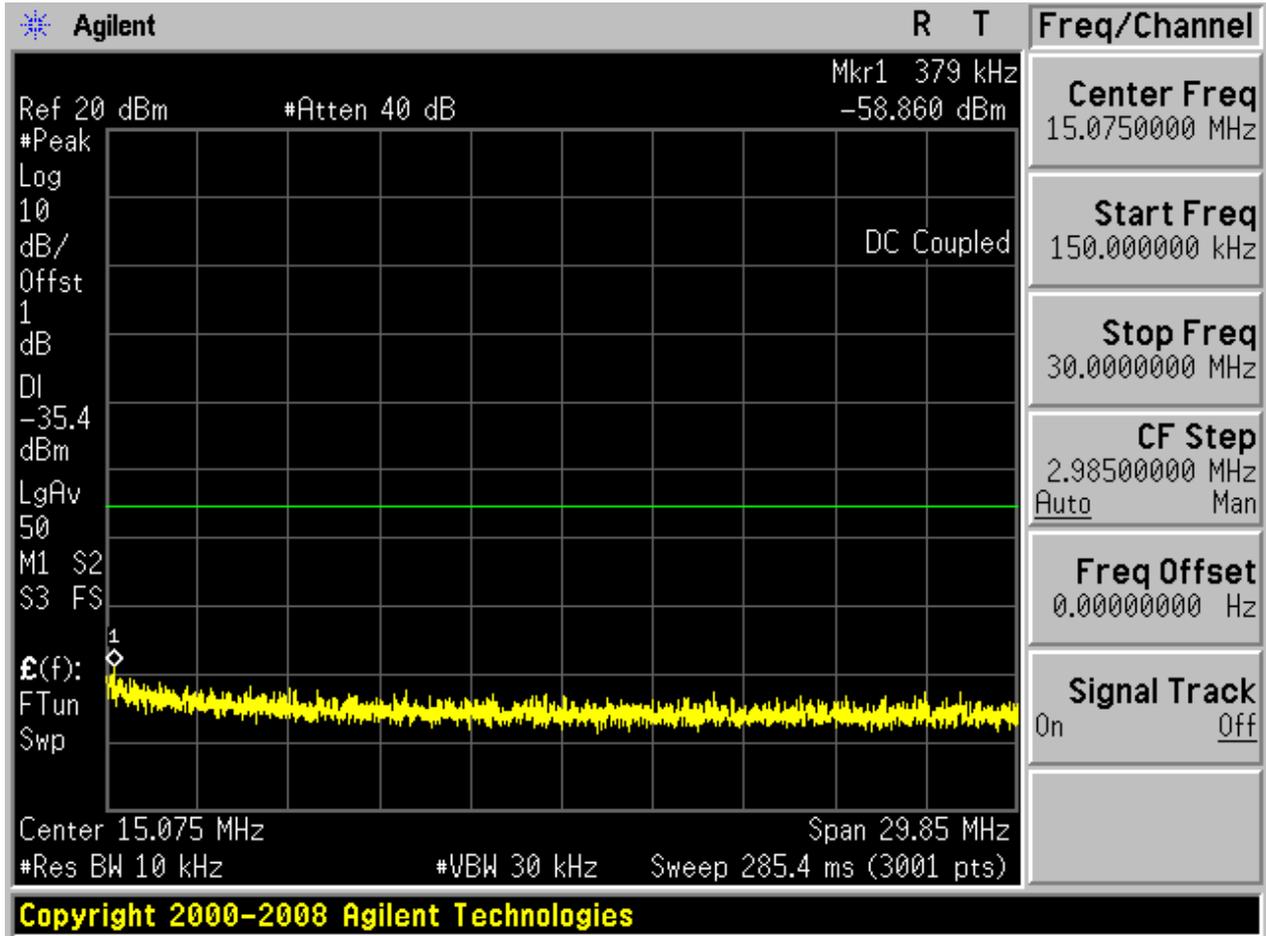
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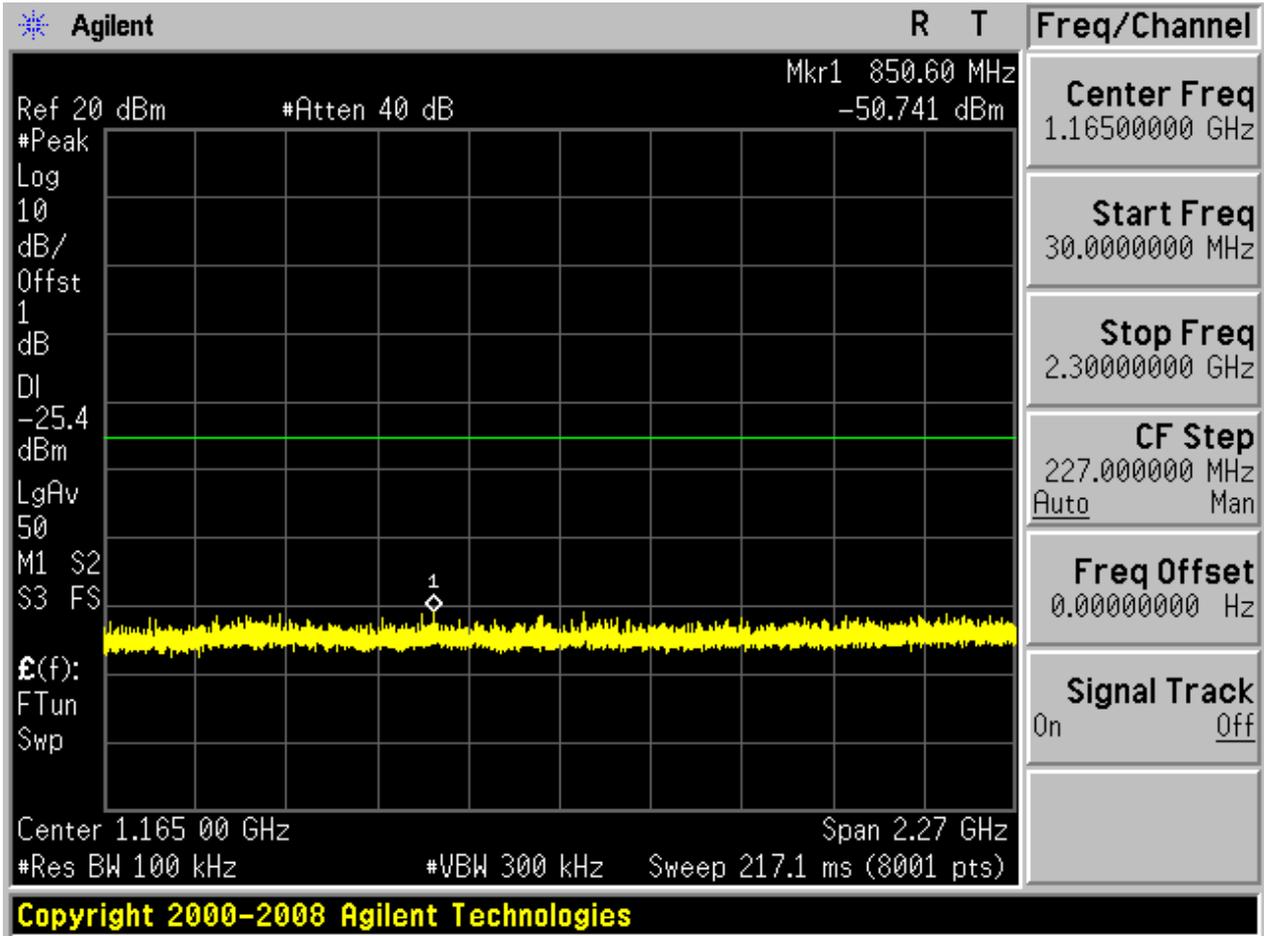


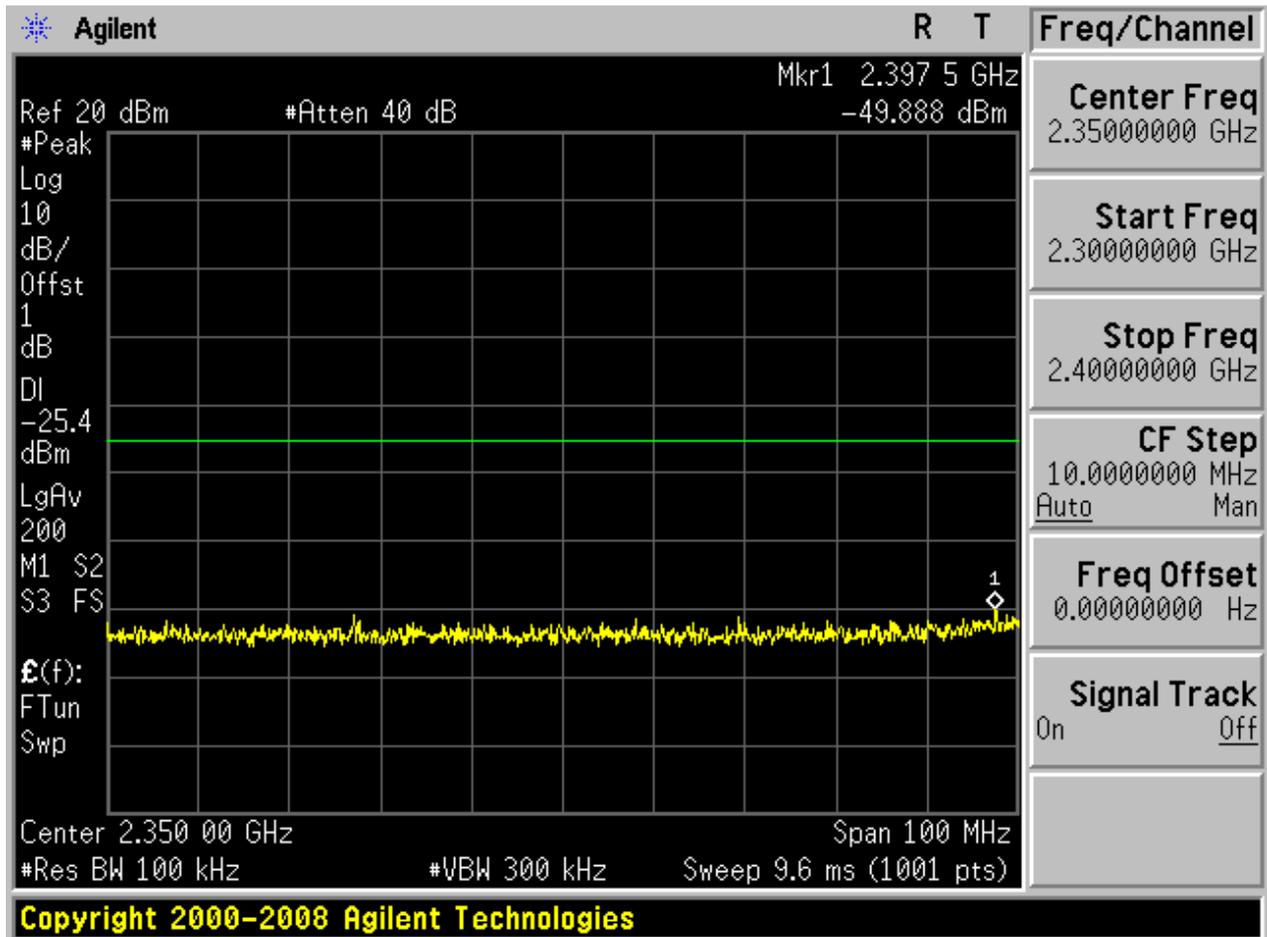


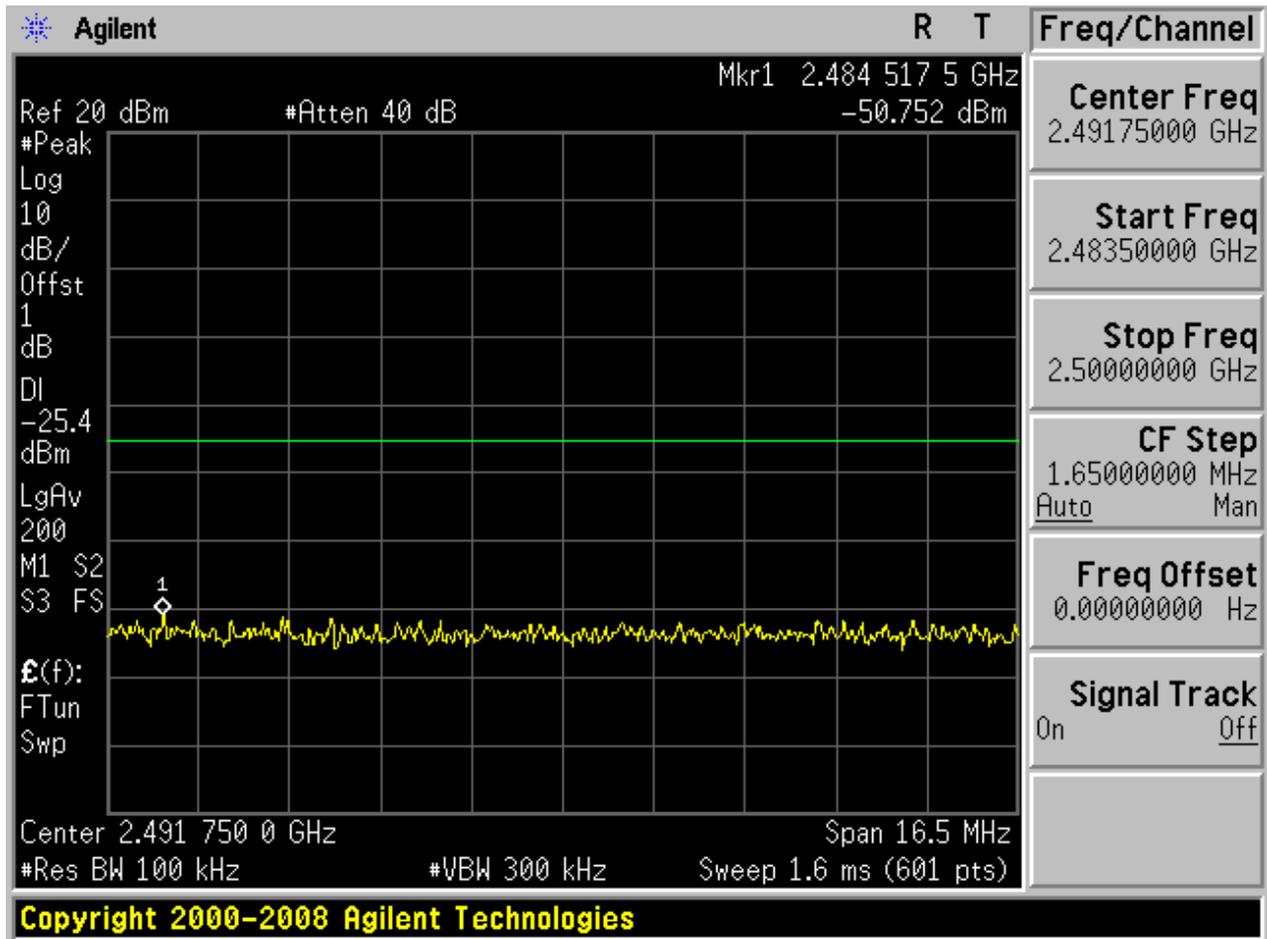
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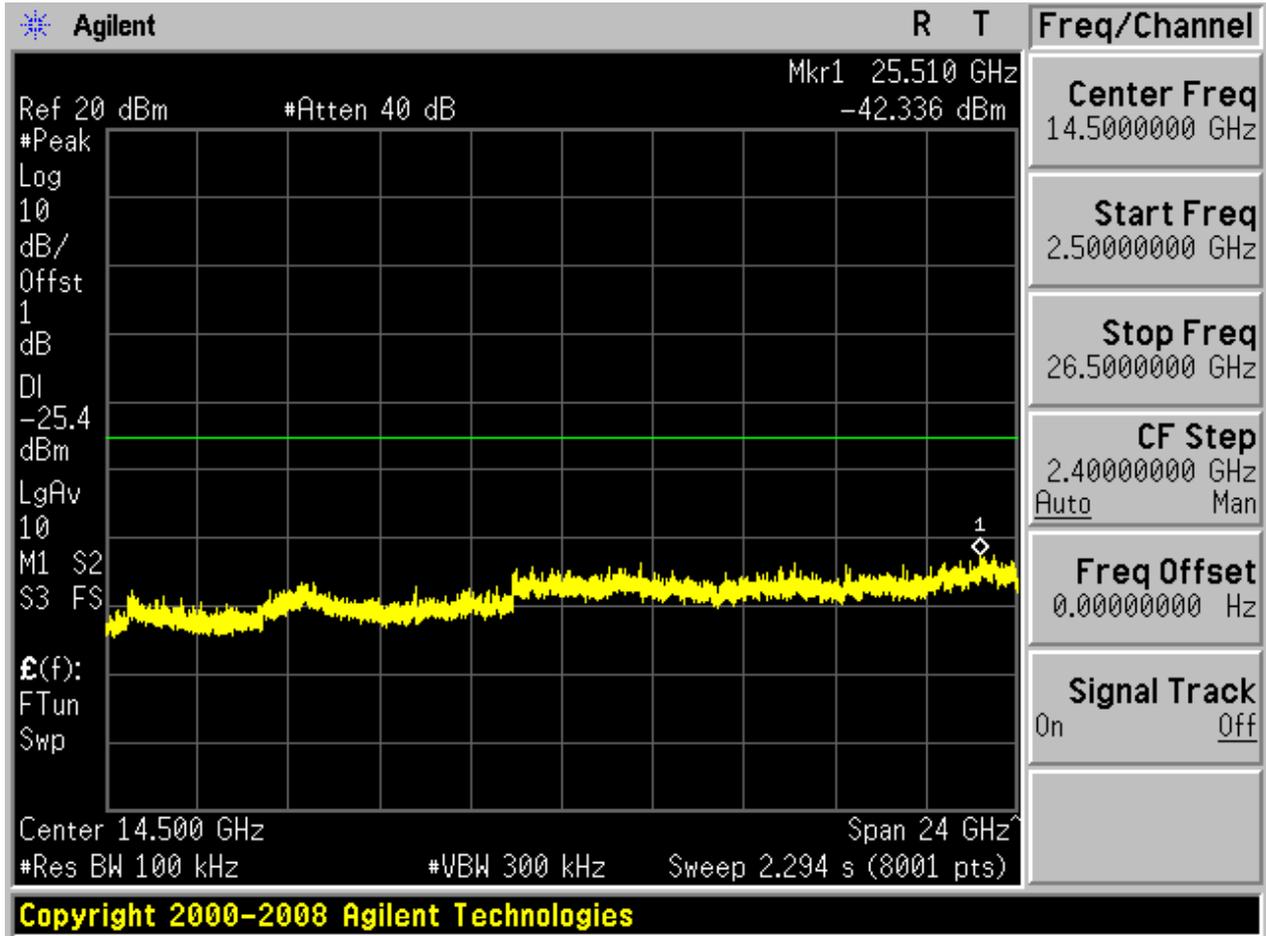








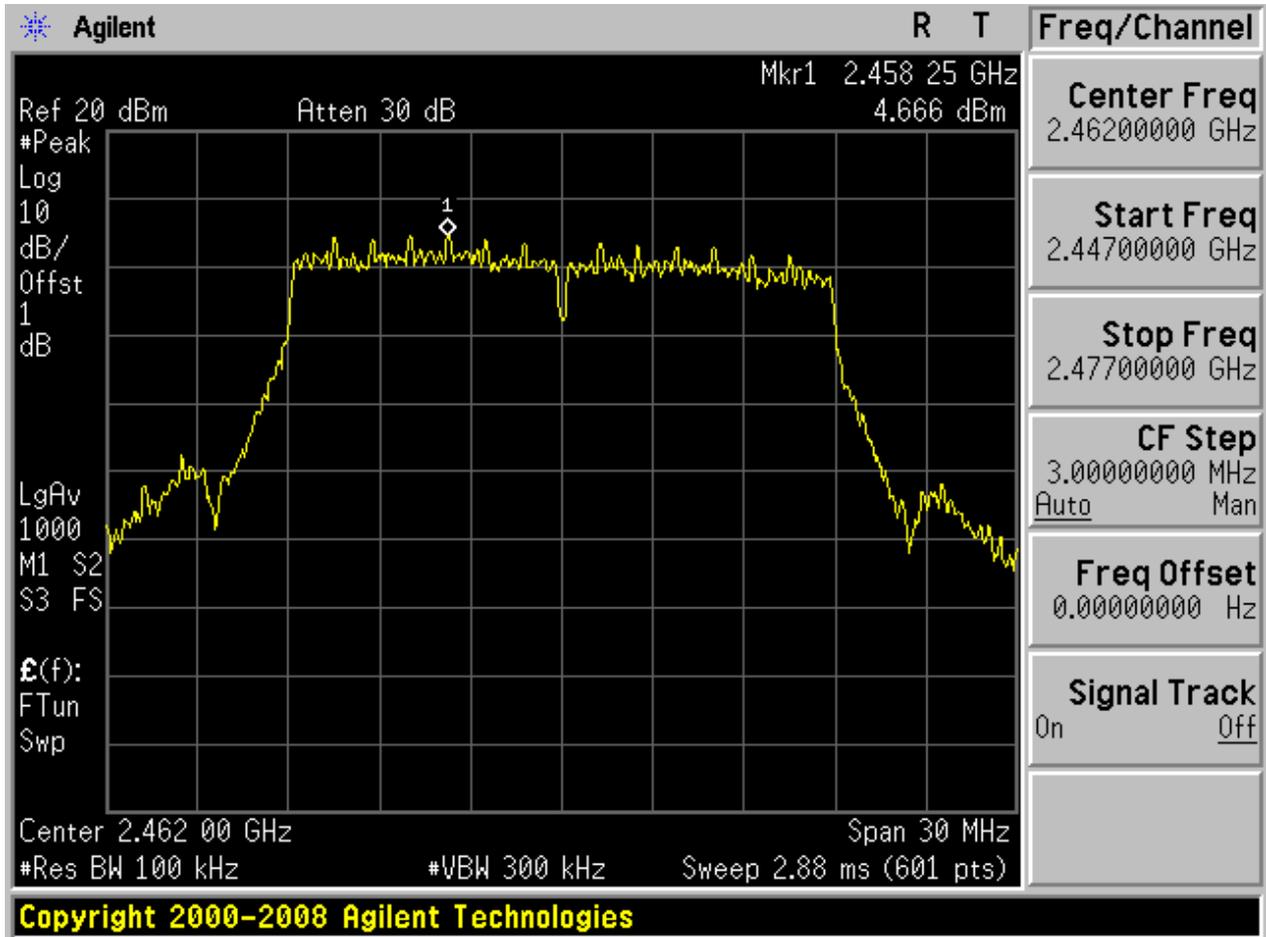




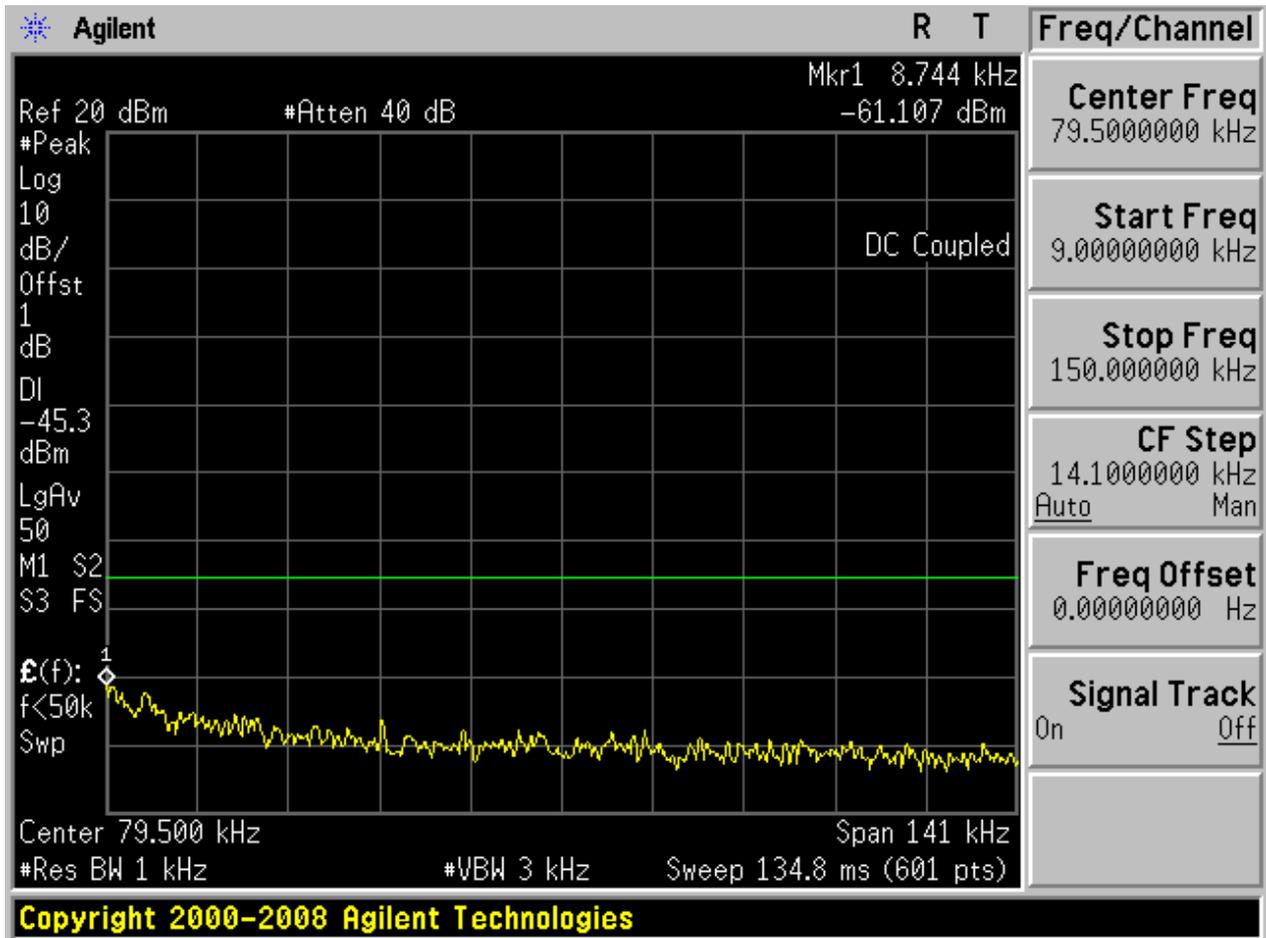


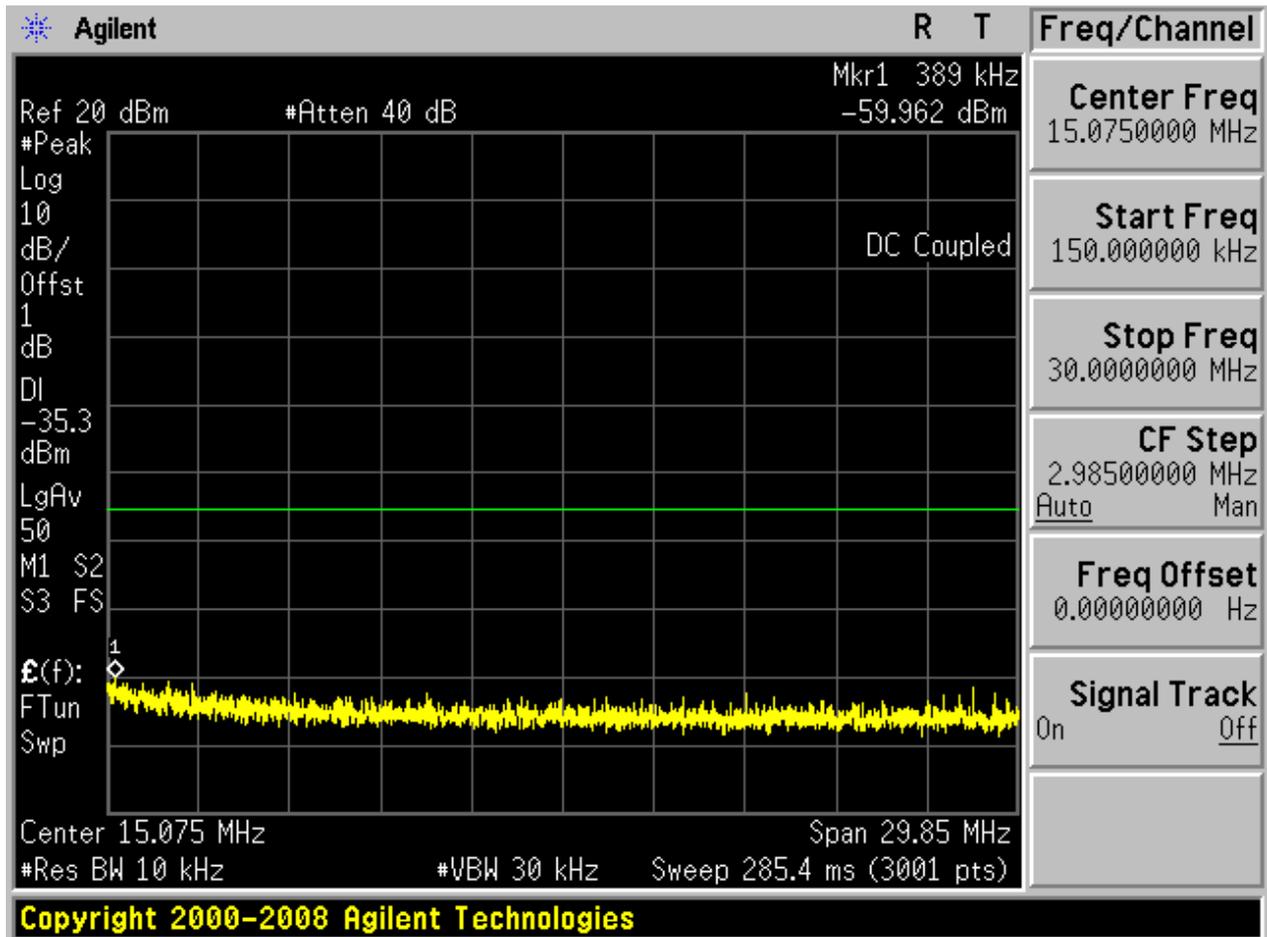
2.17 11N20m\_H@Ant 1

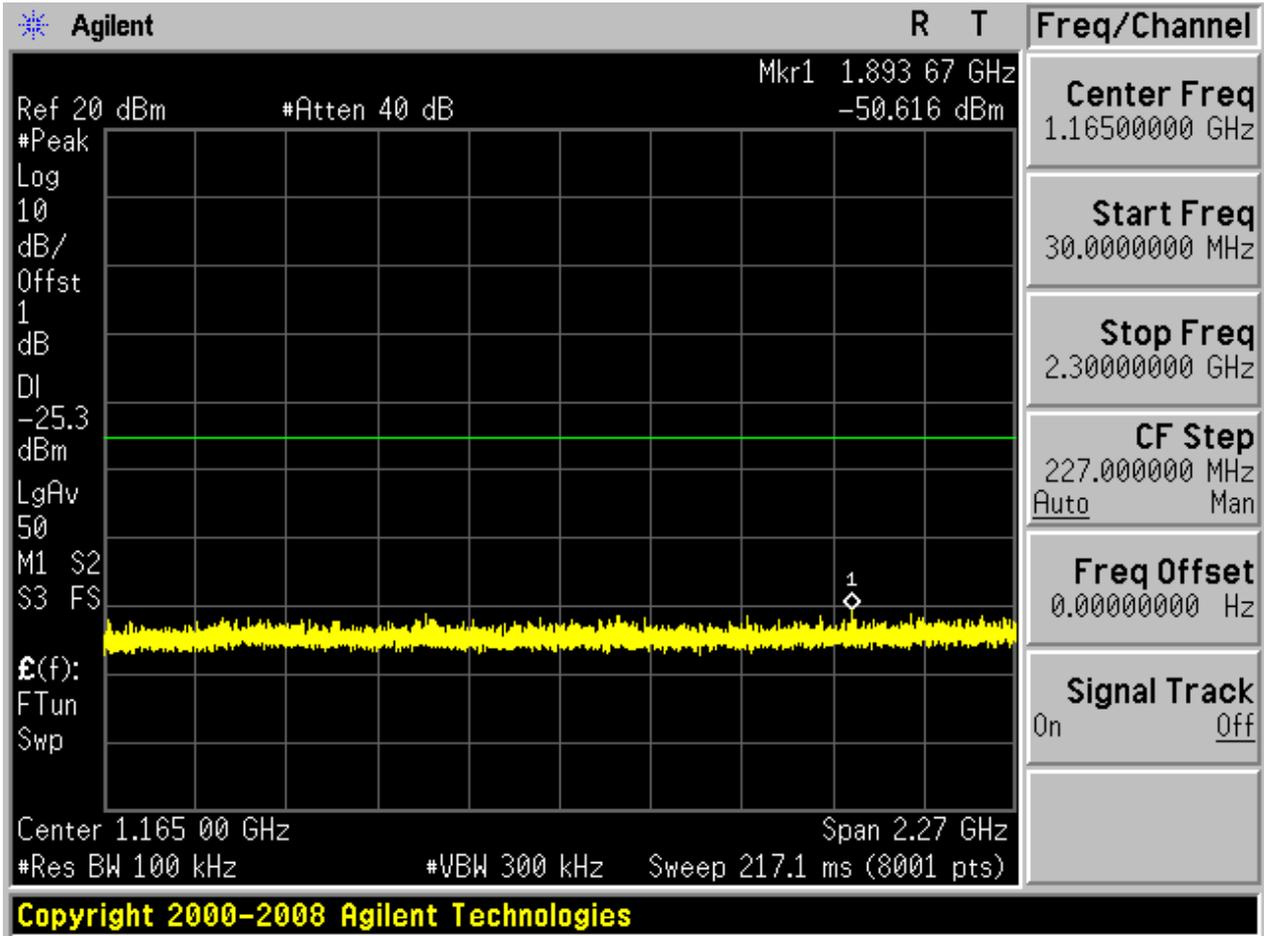
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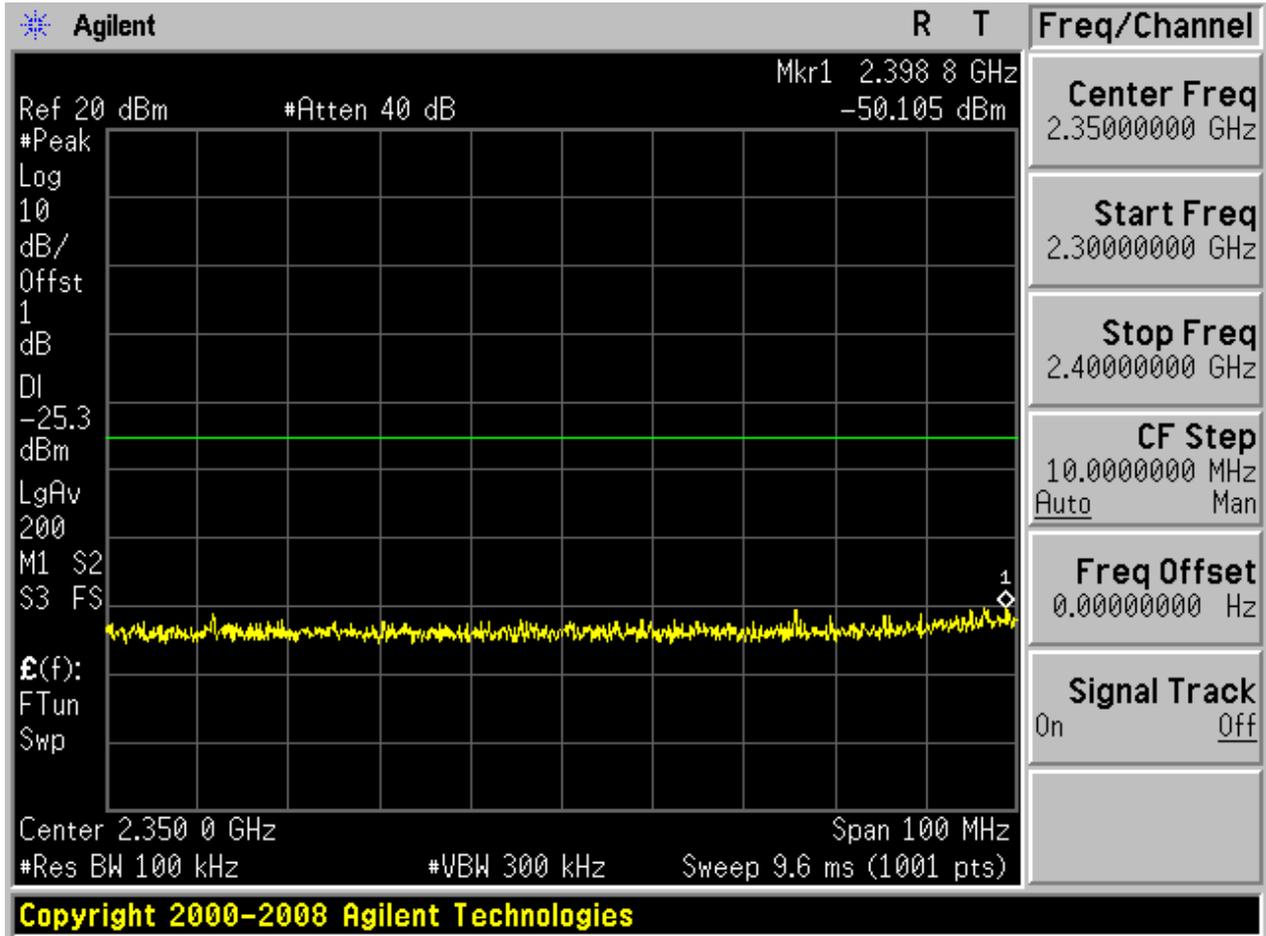


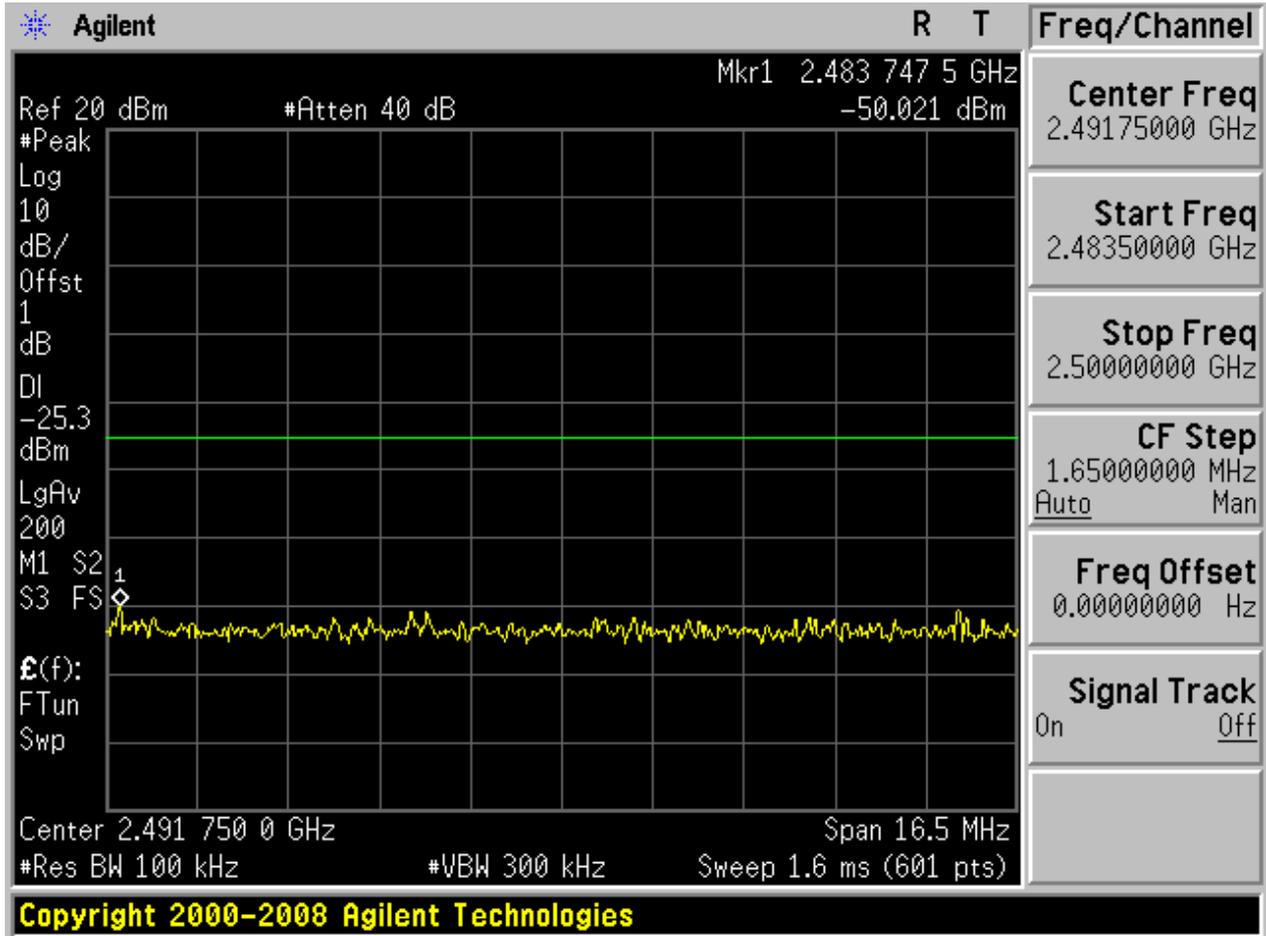
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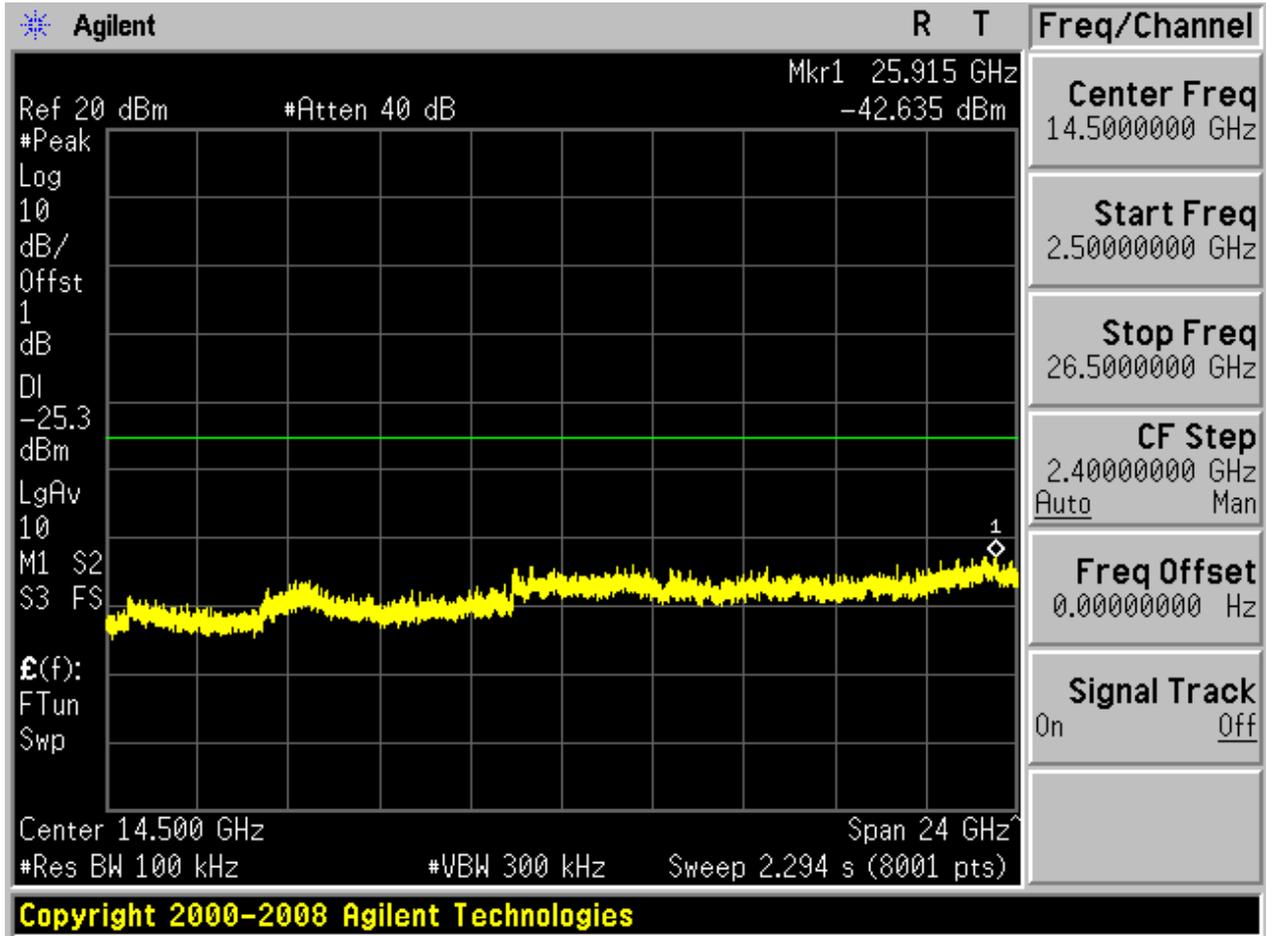








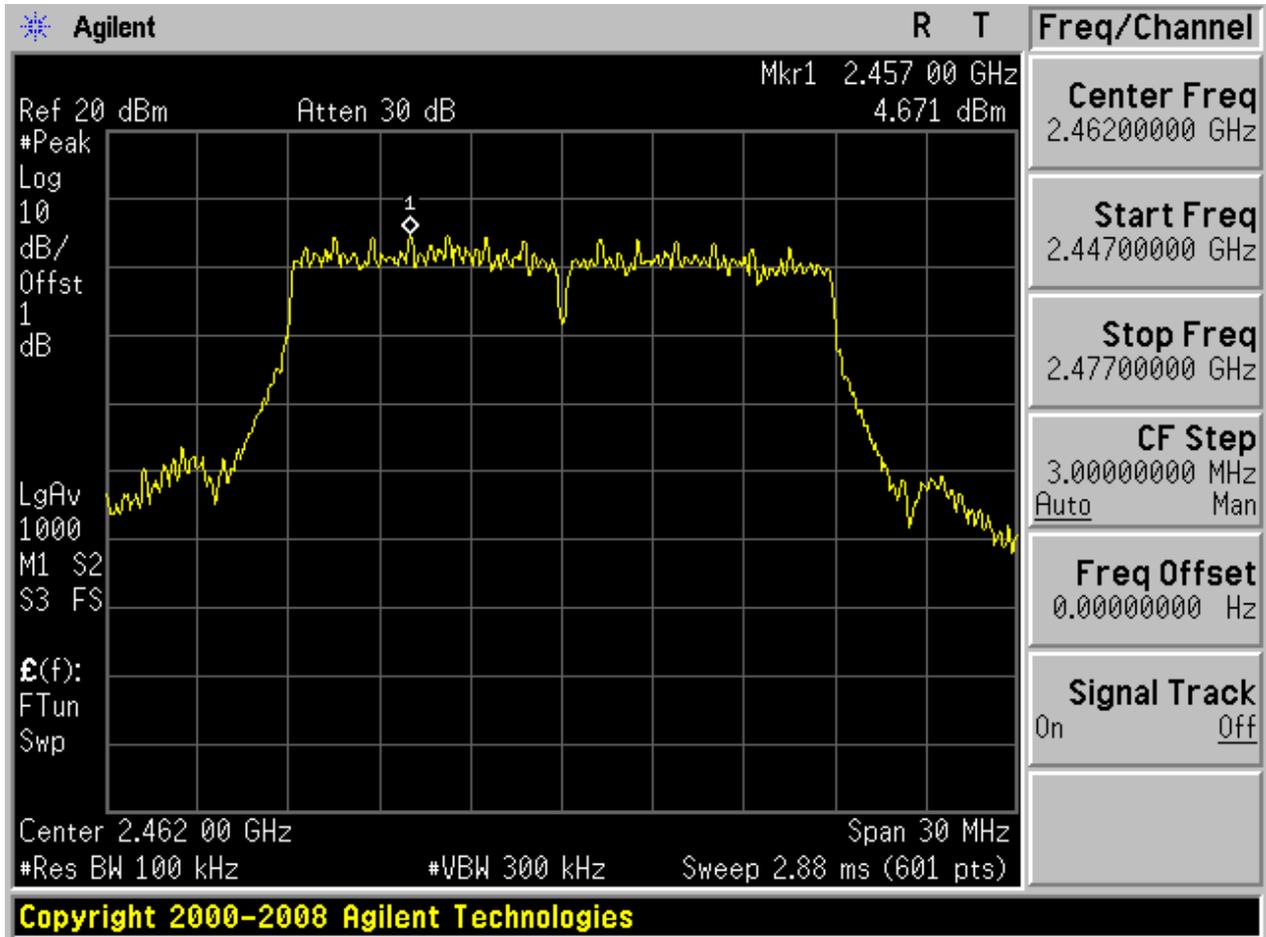






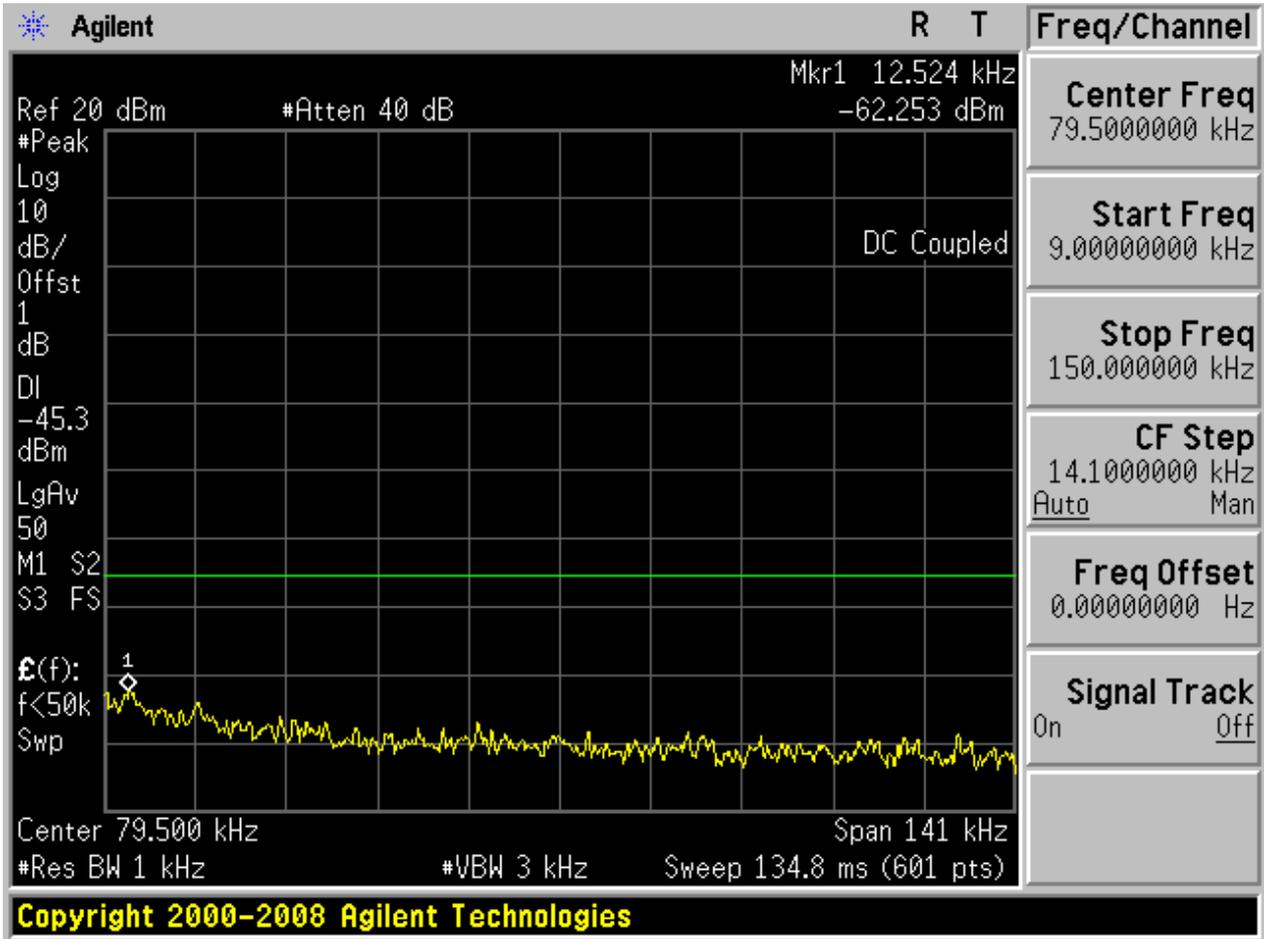
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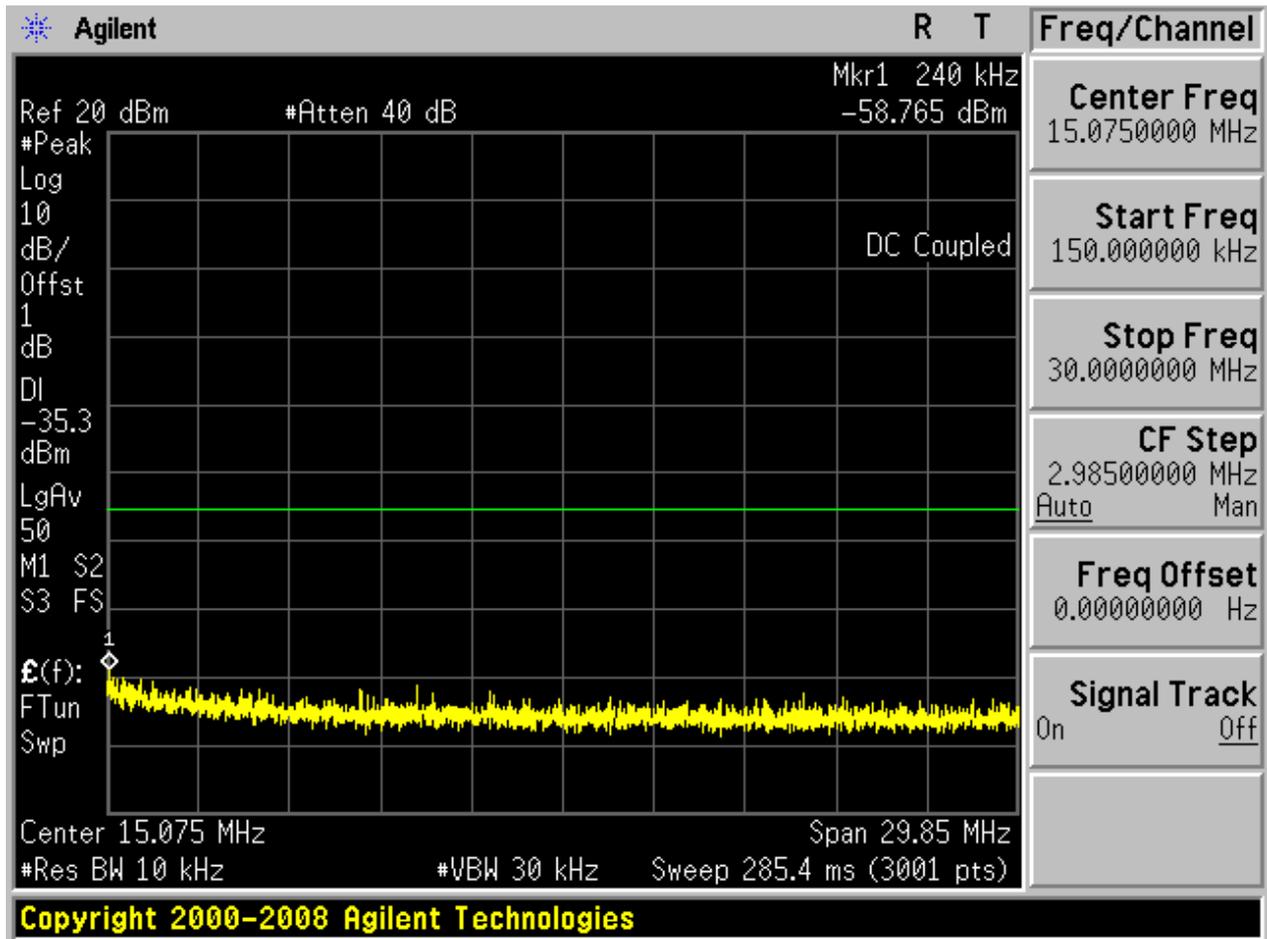
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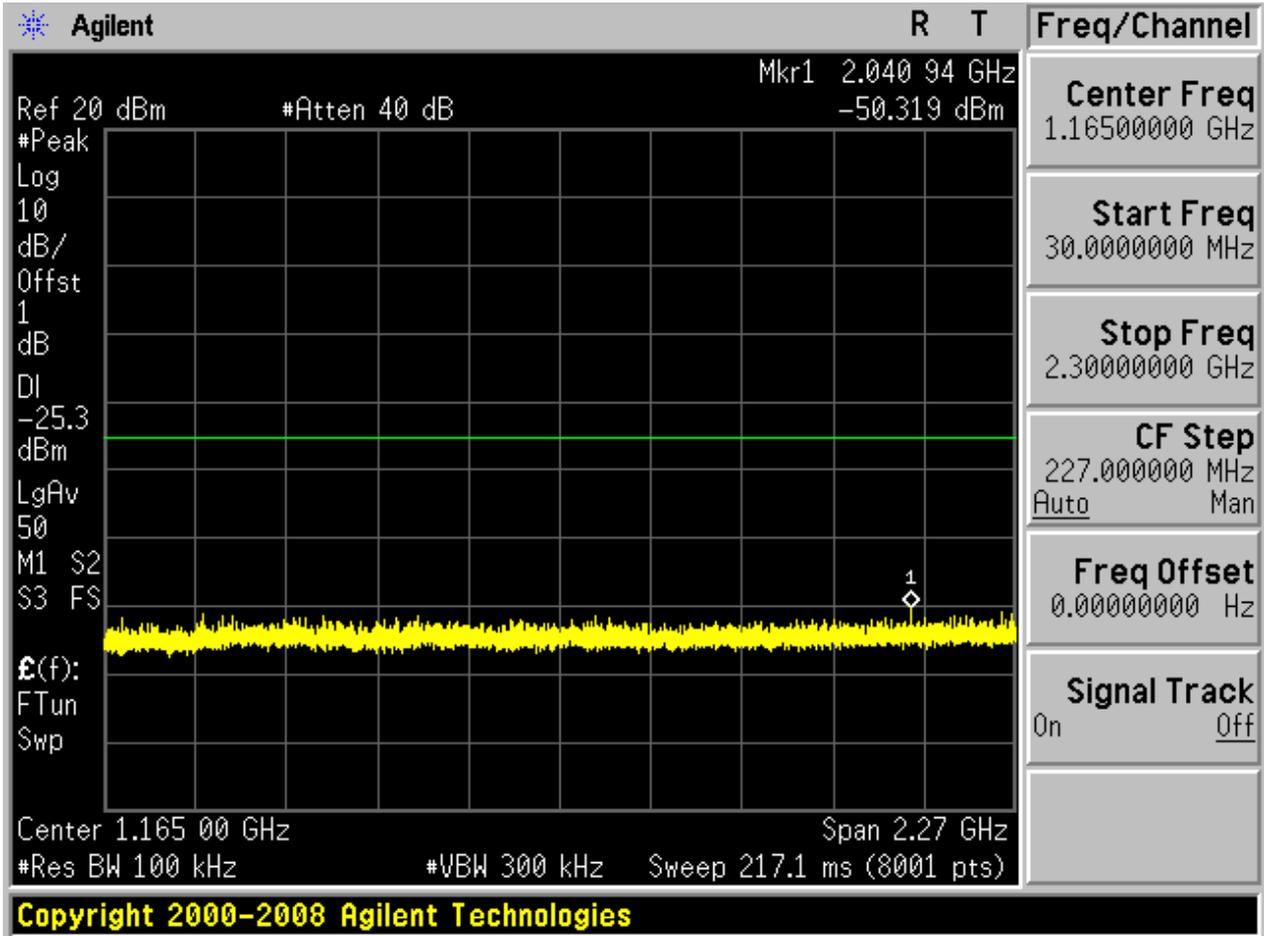


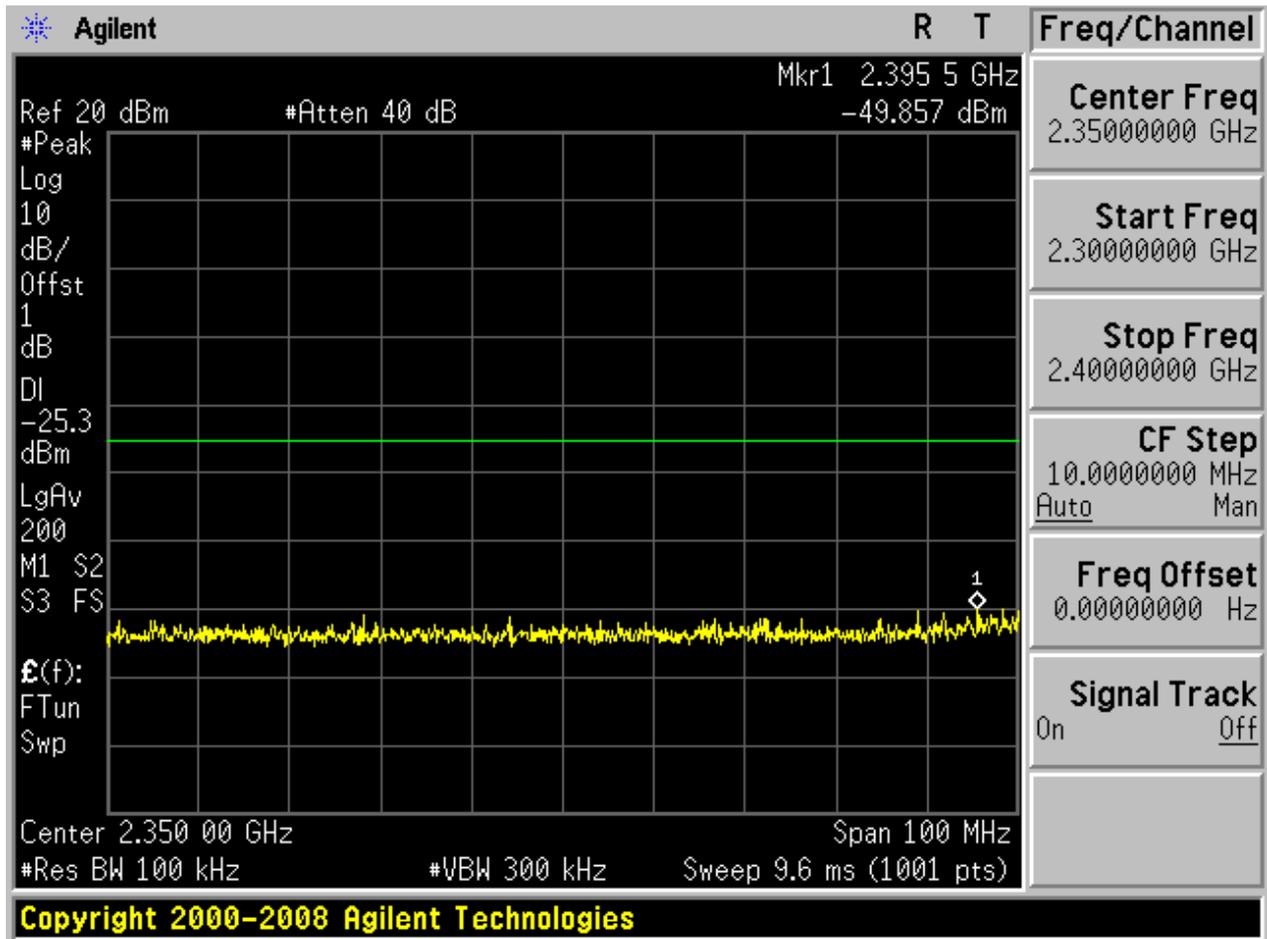


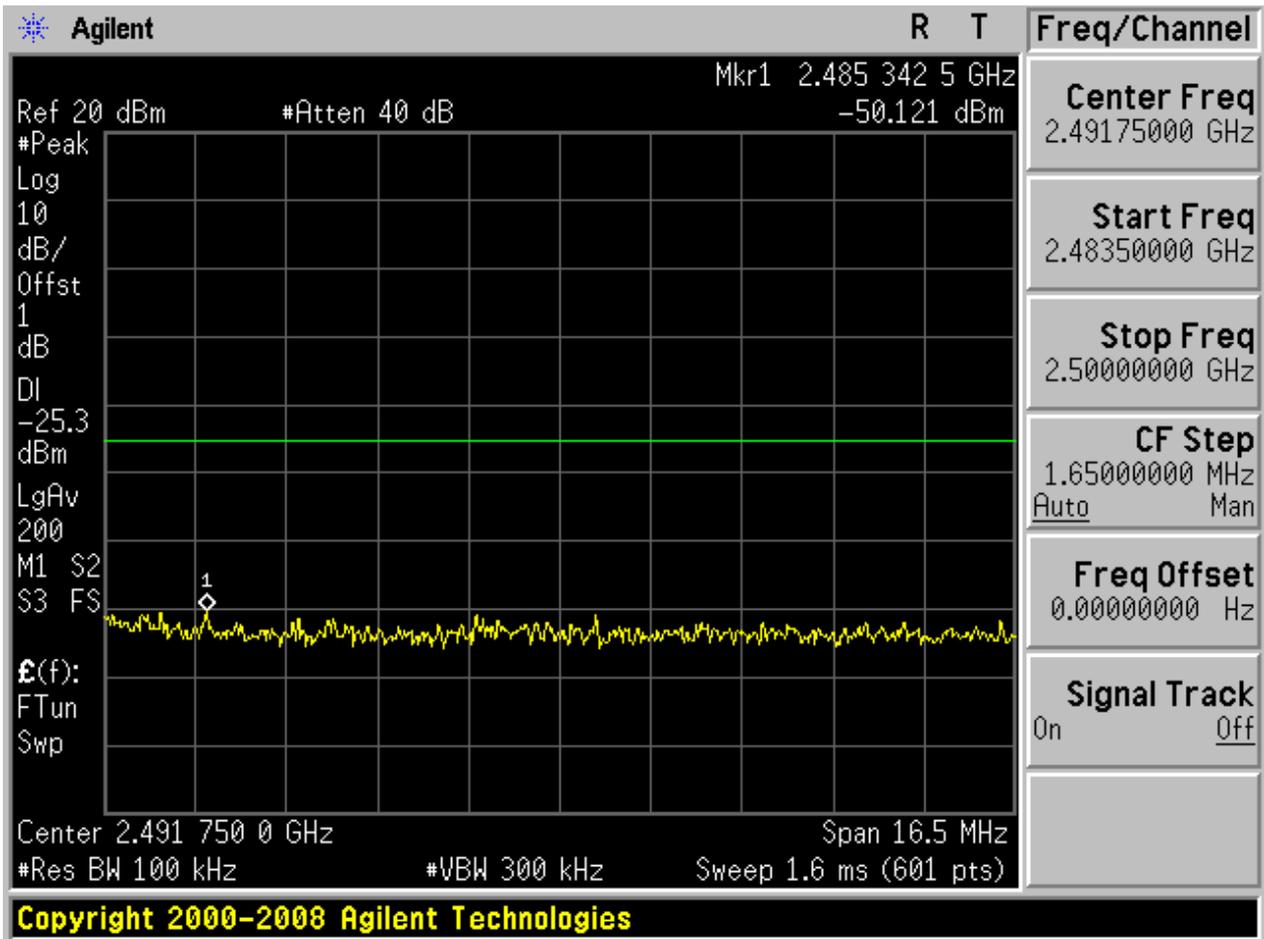
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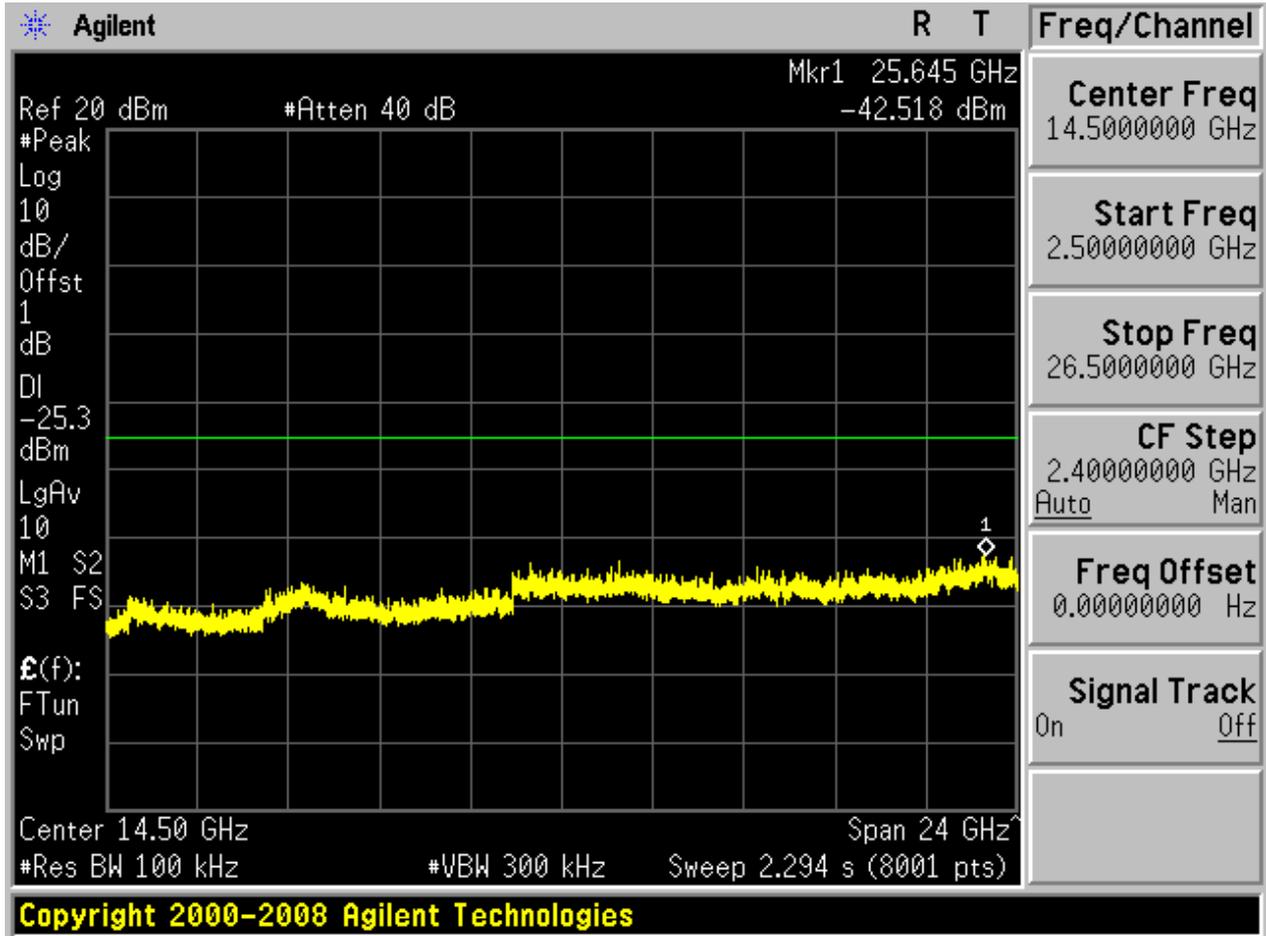








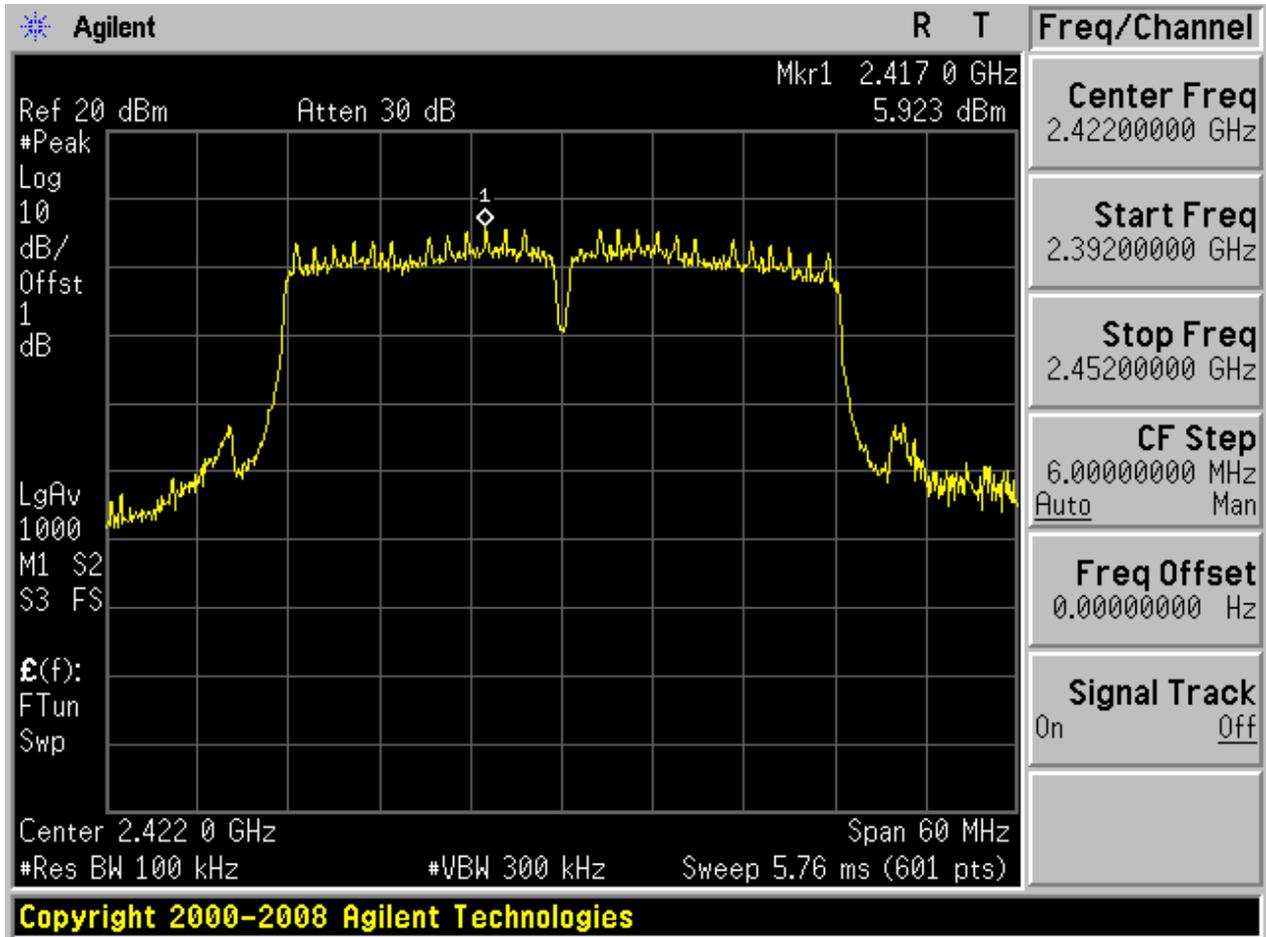






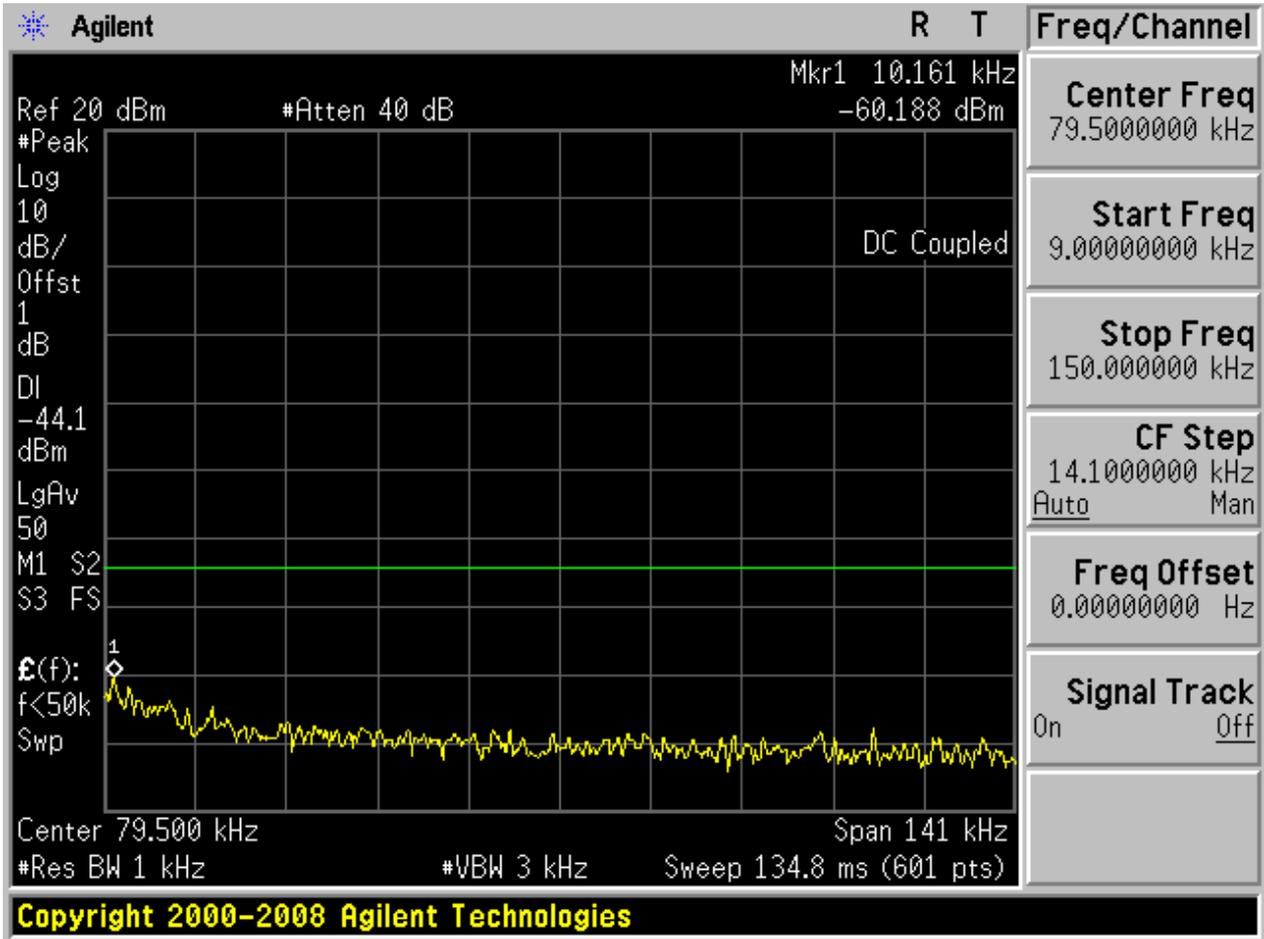
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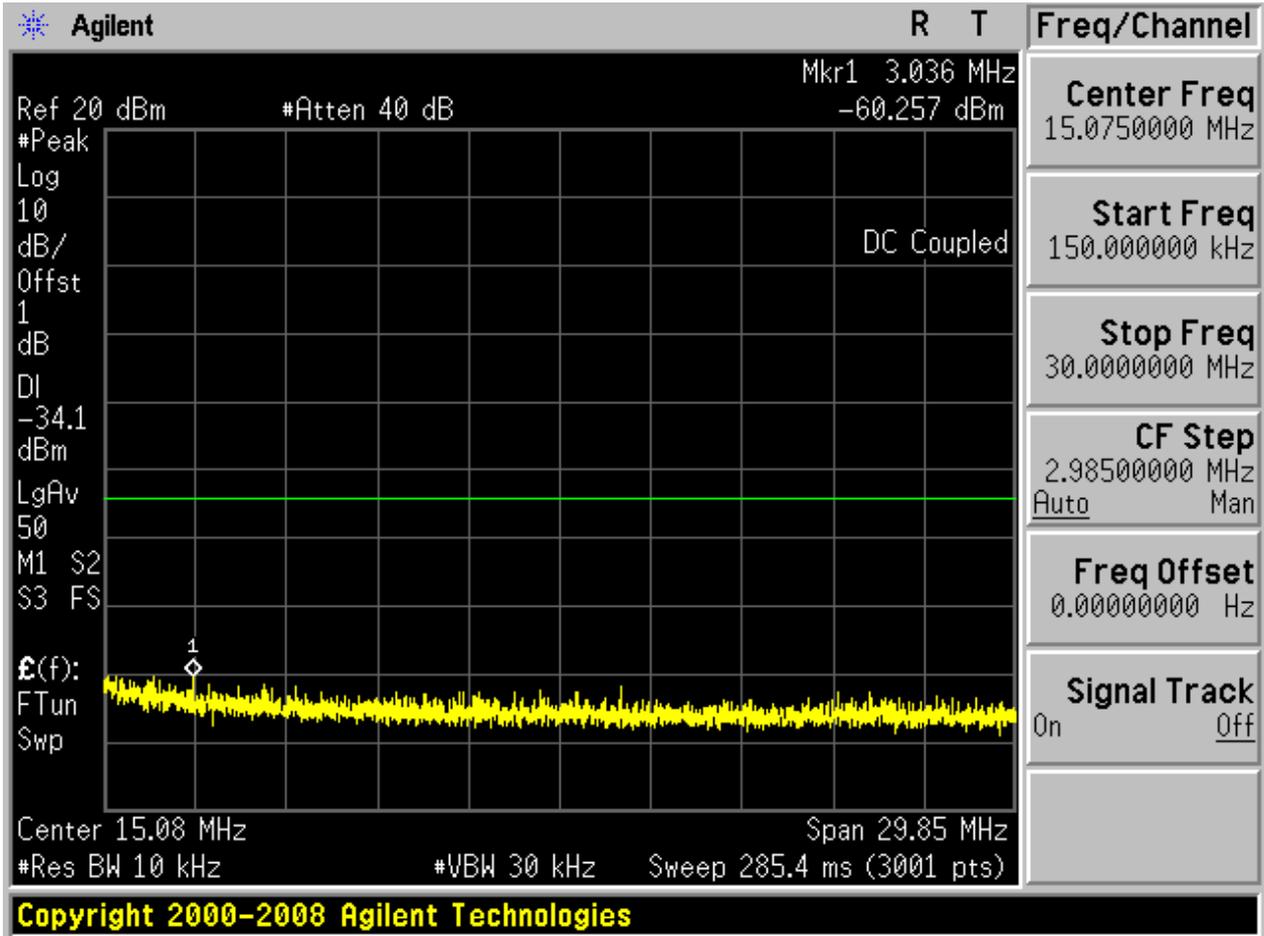
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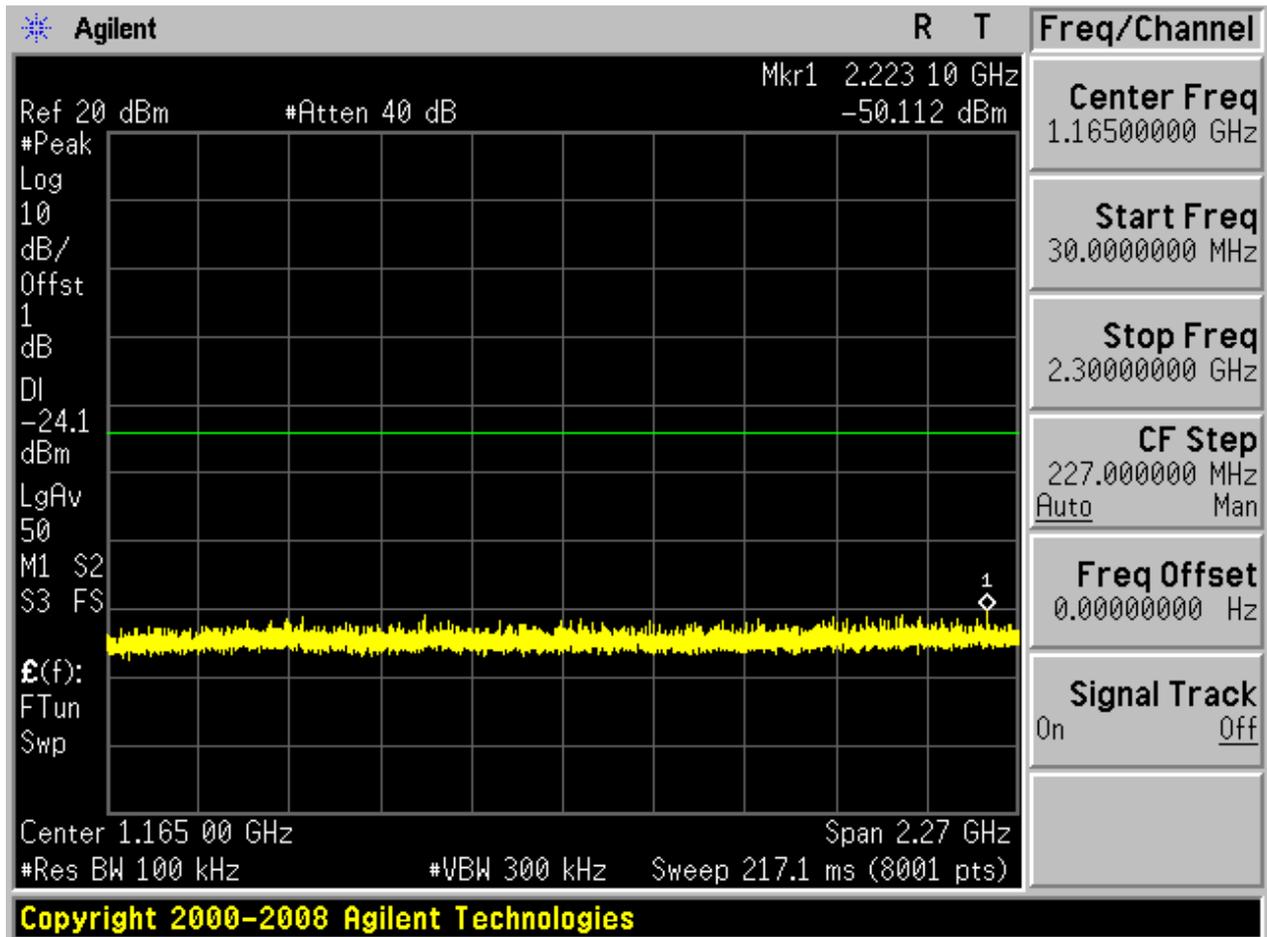


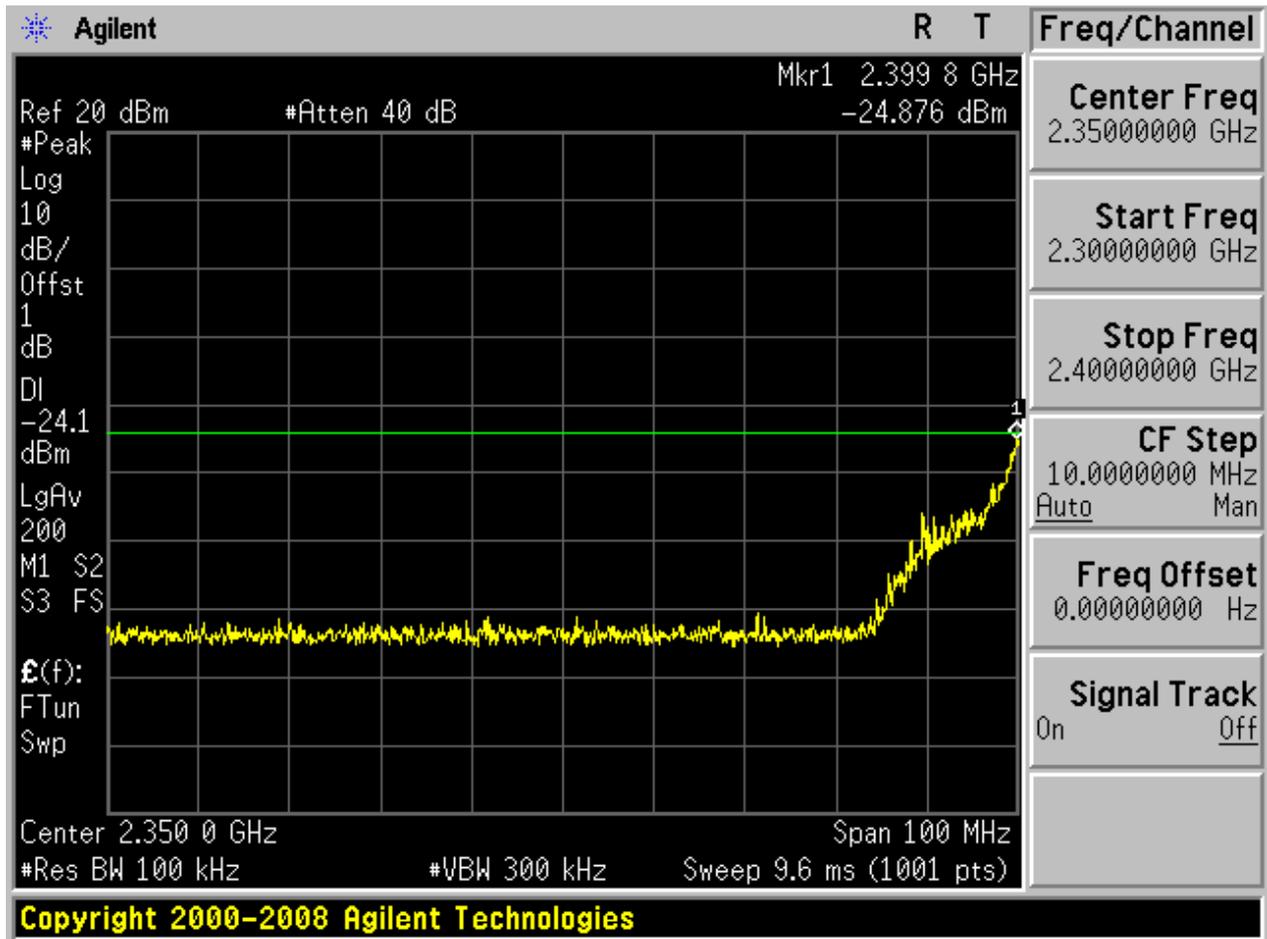


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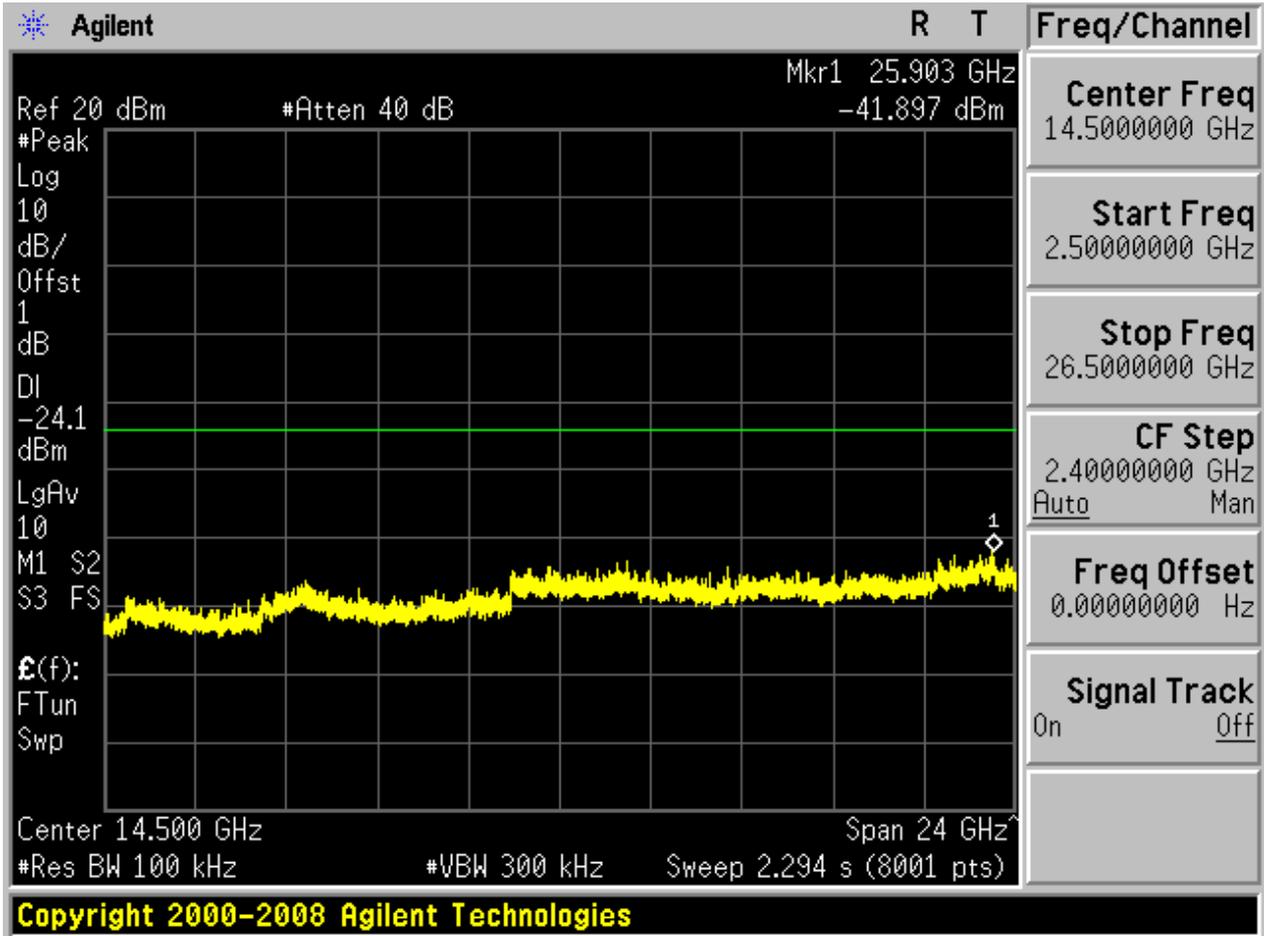








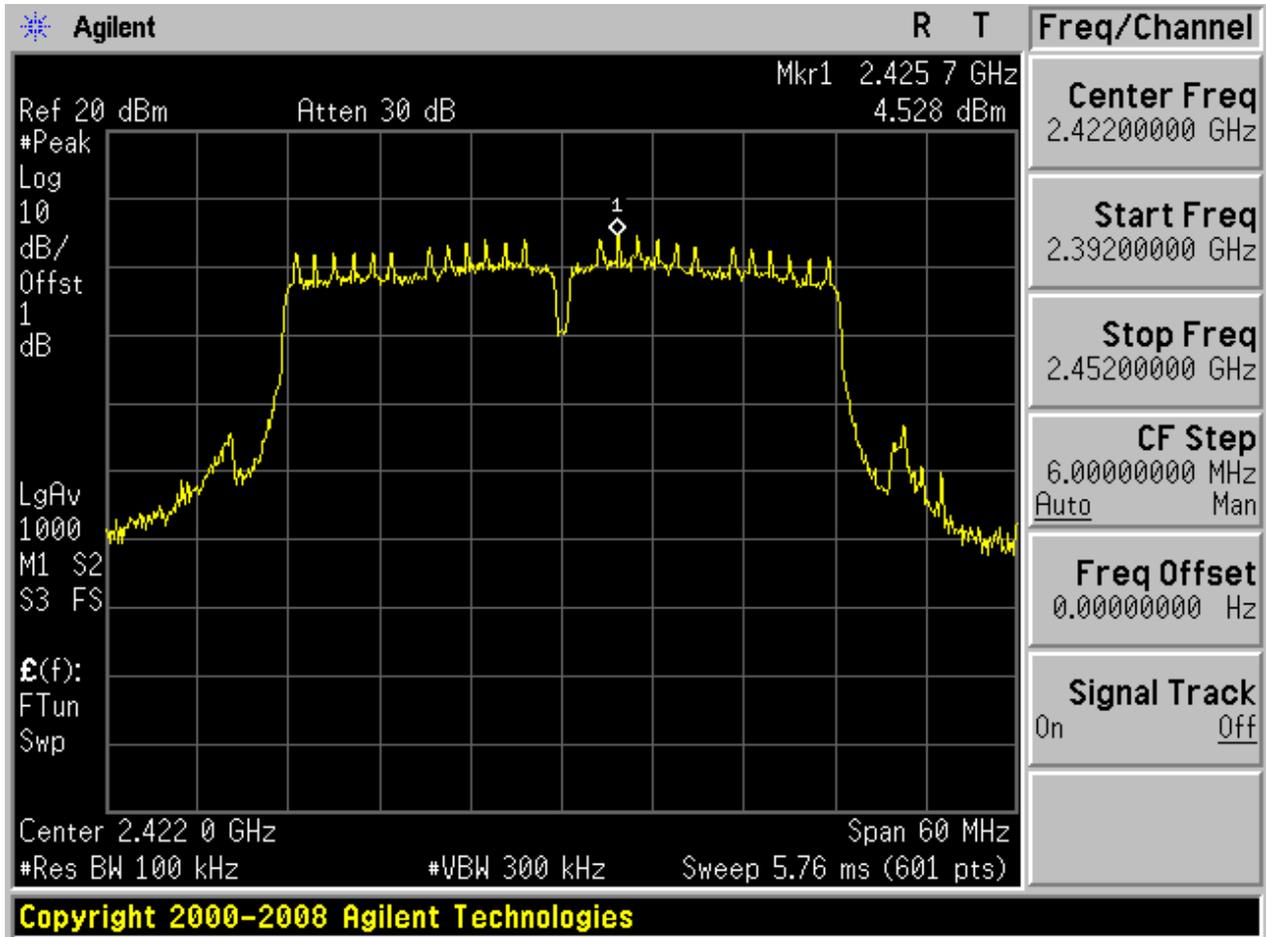




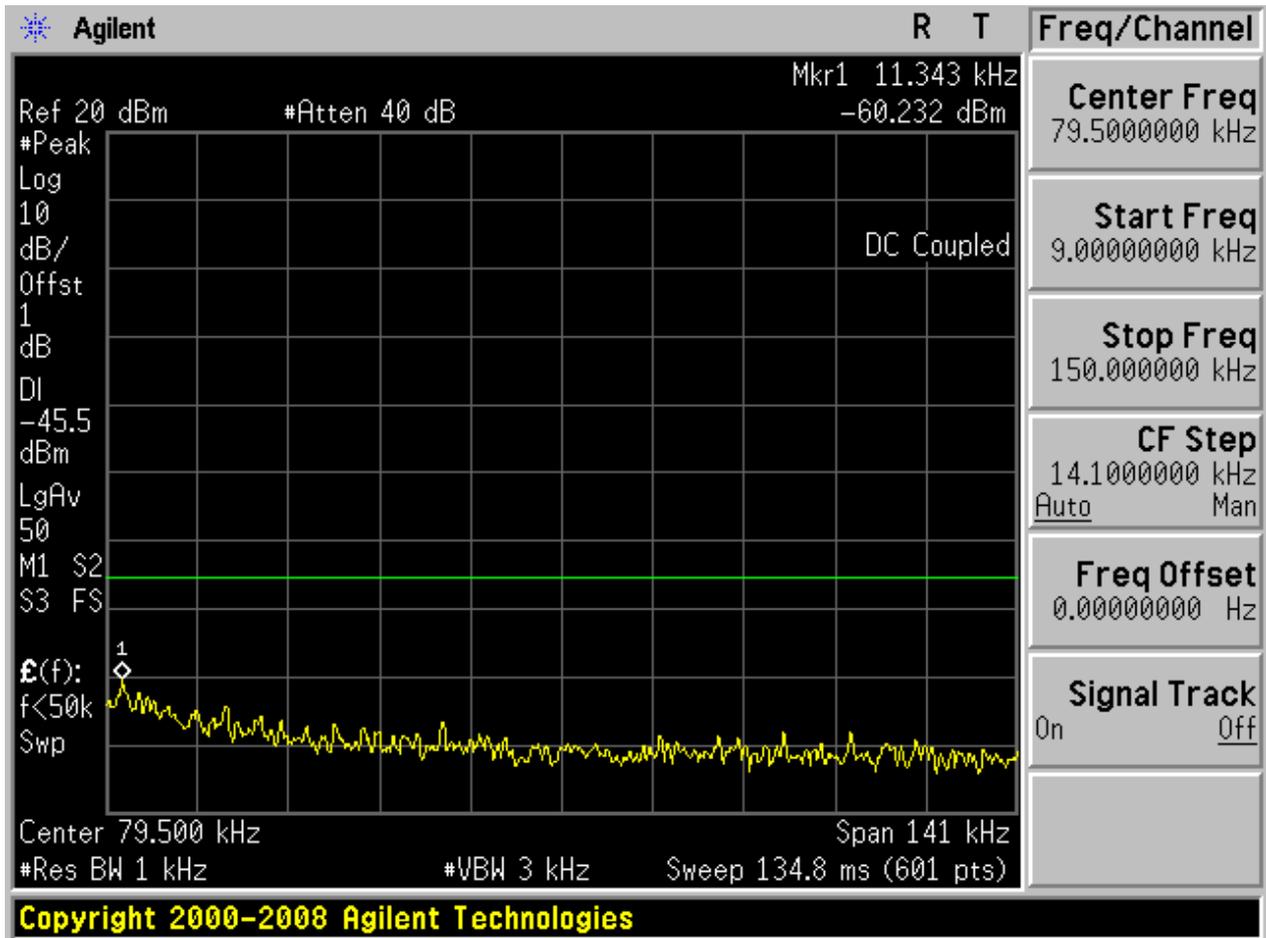


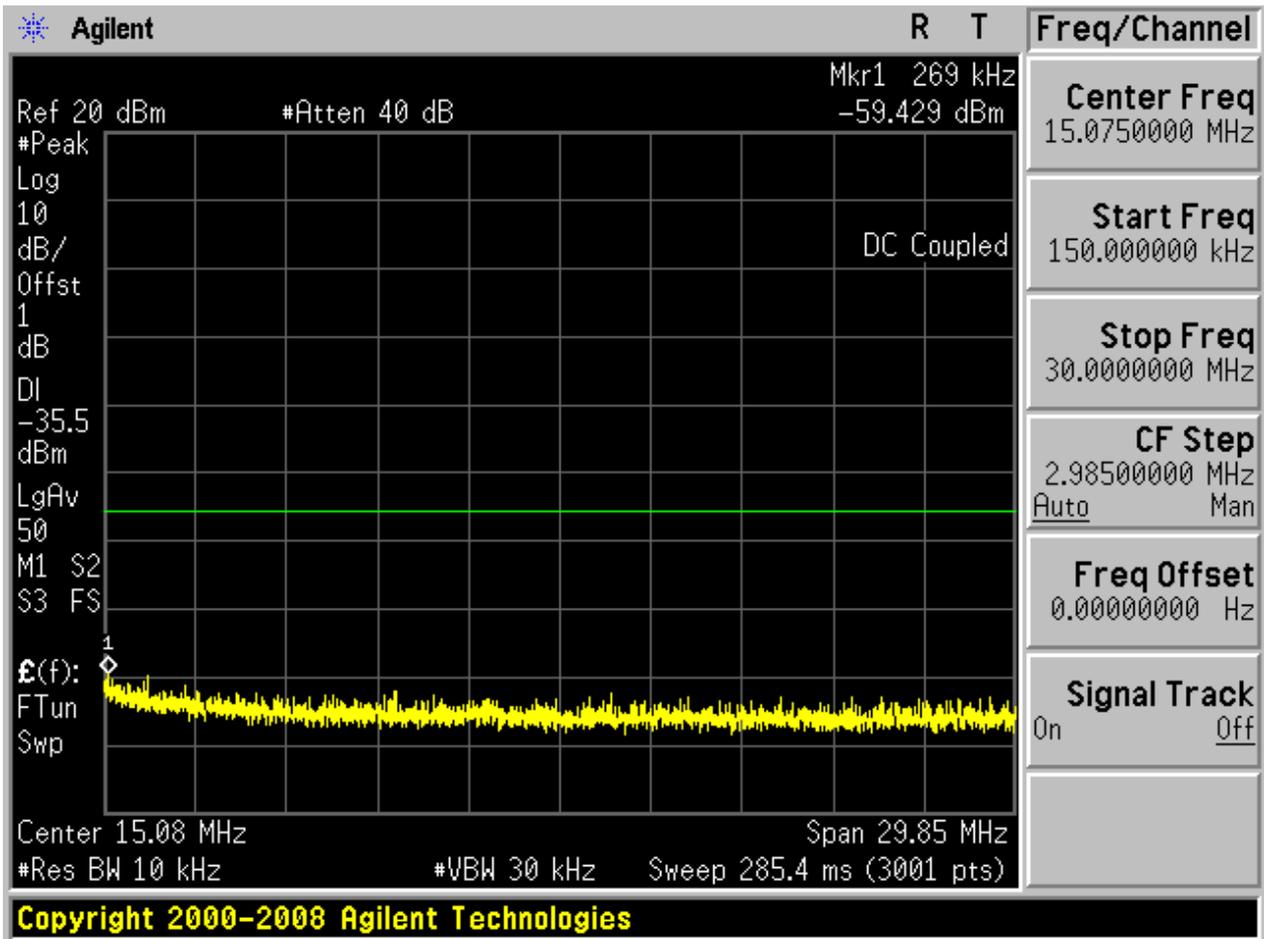
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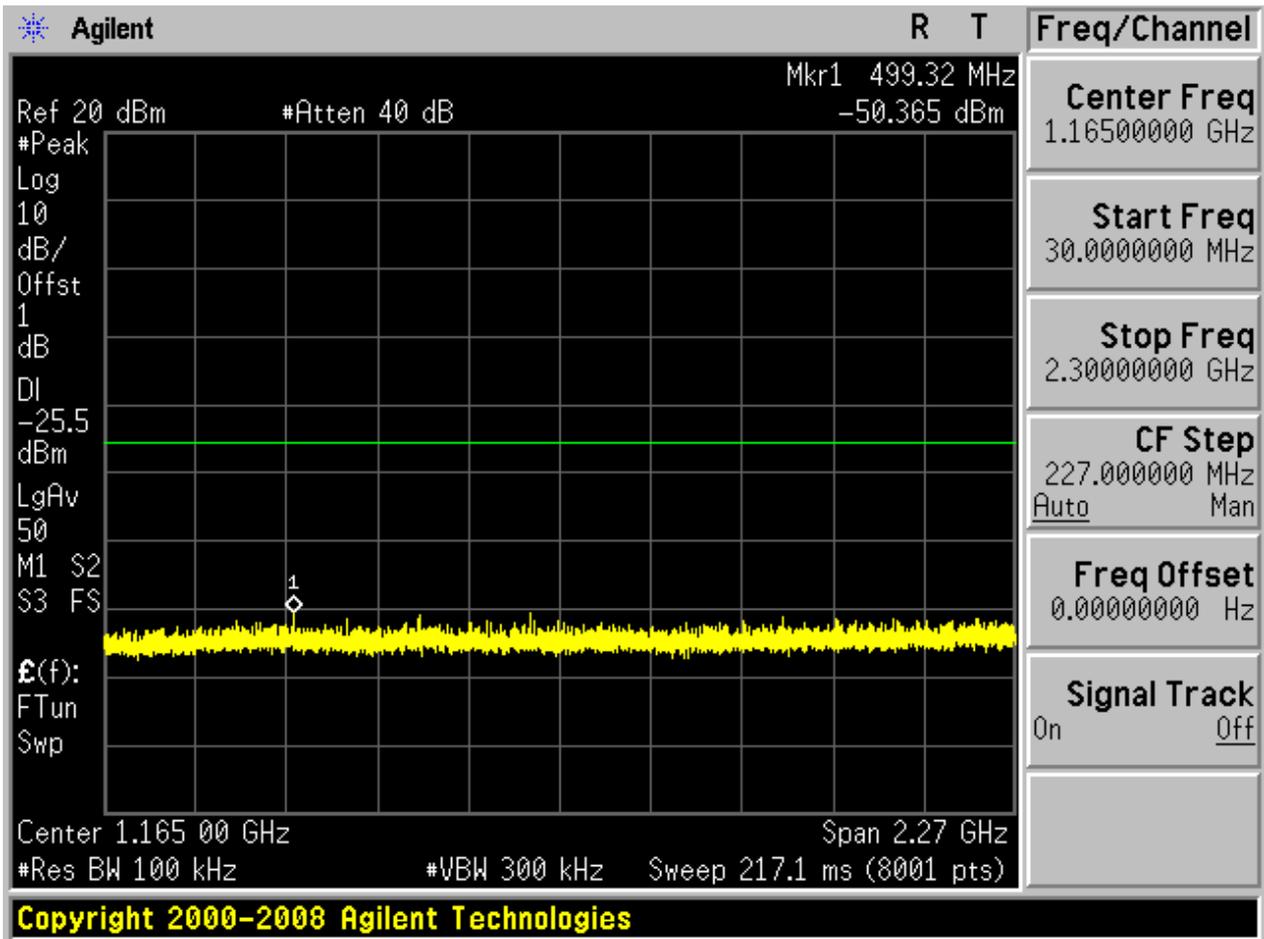
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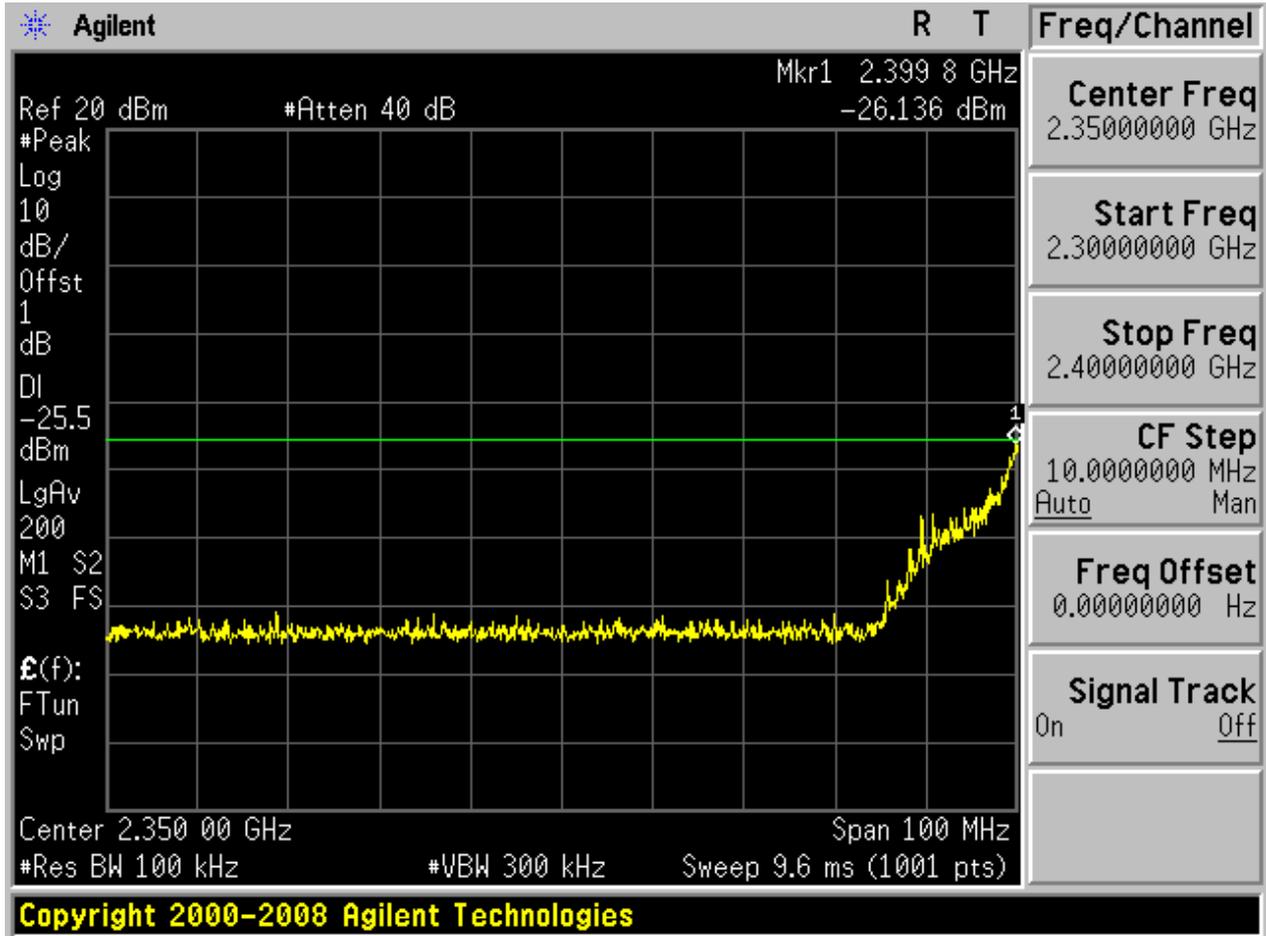


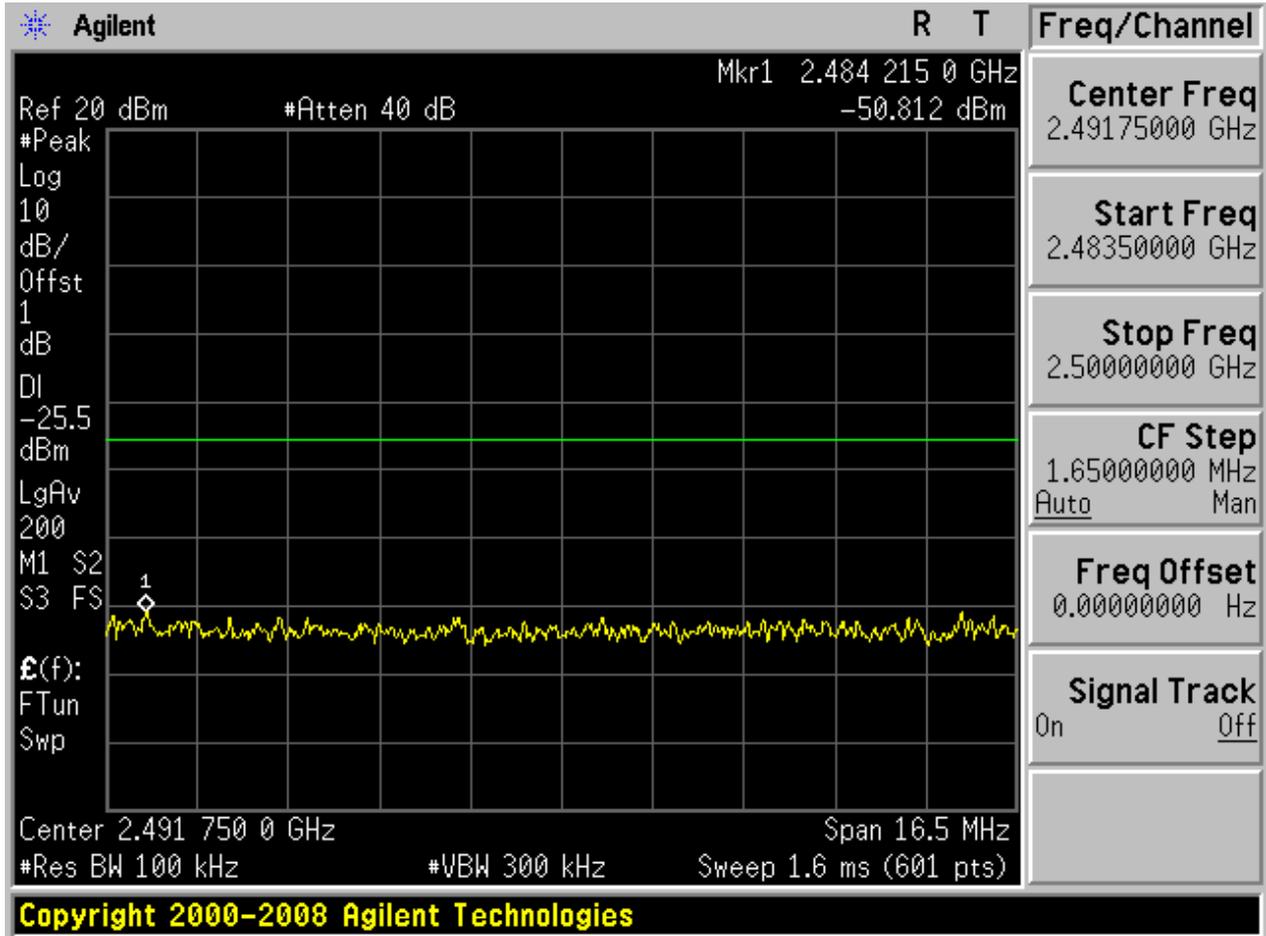
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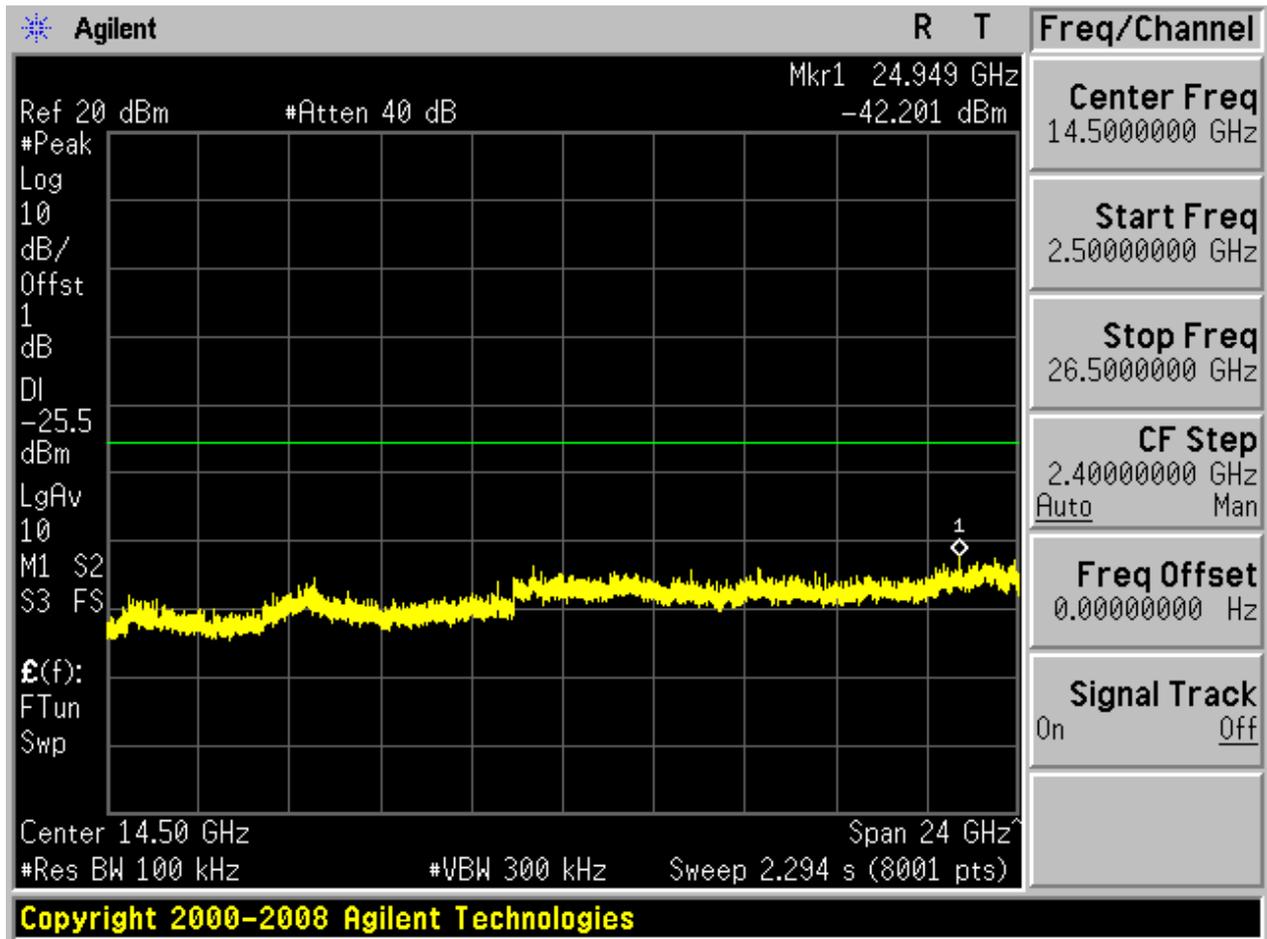








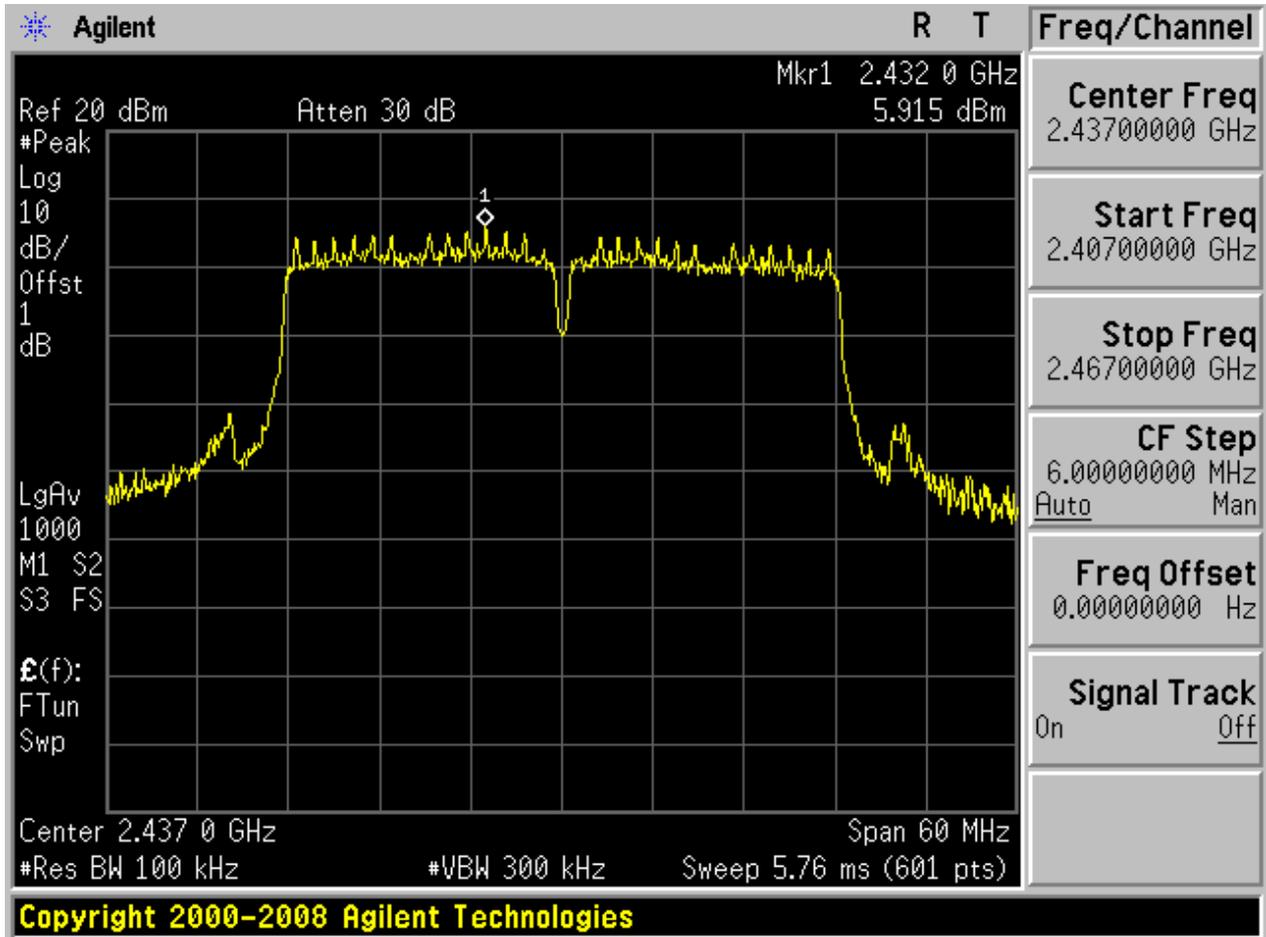






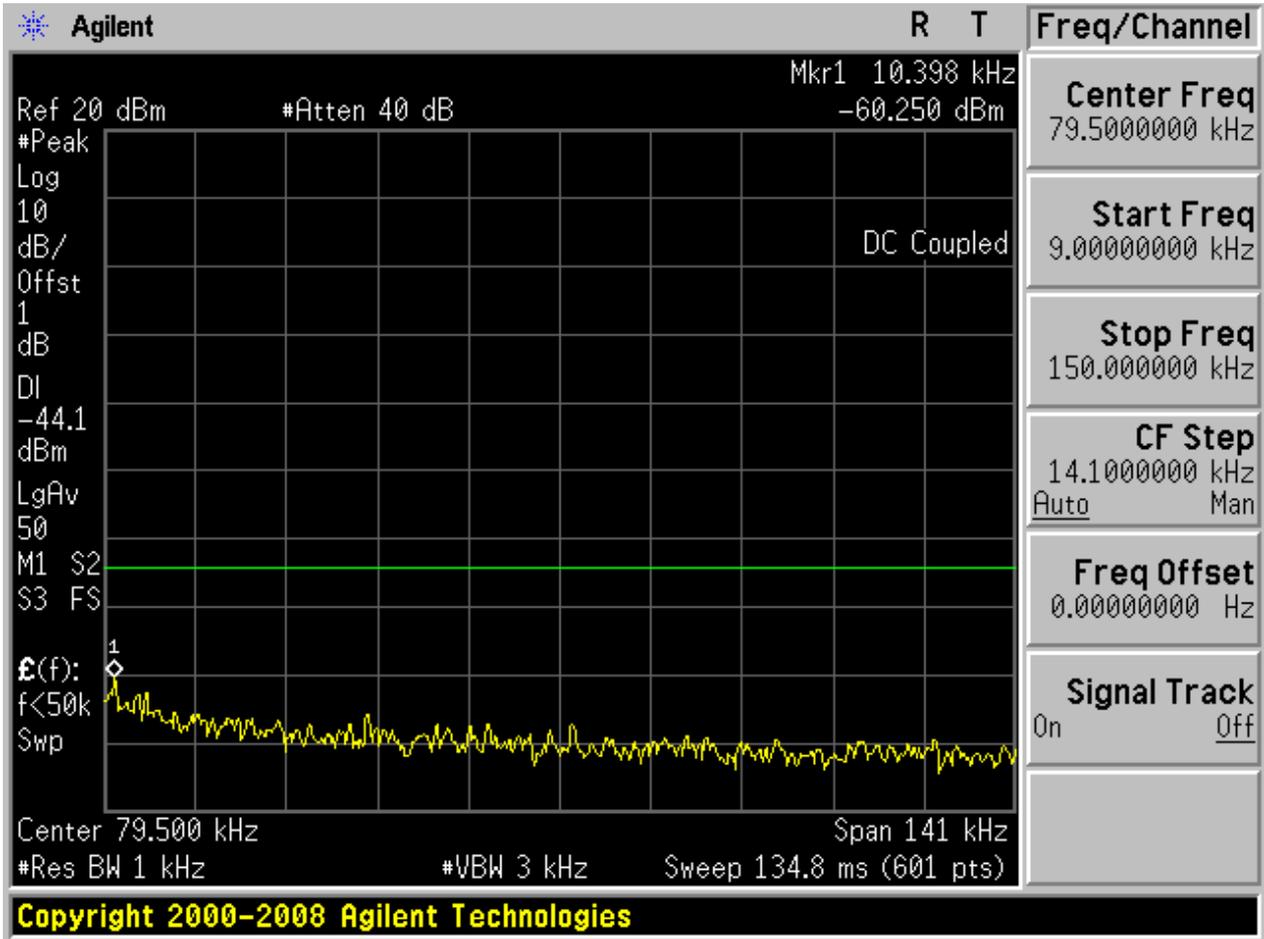
2.21 11N40\_M@Ant 1

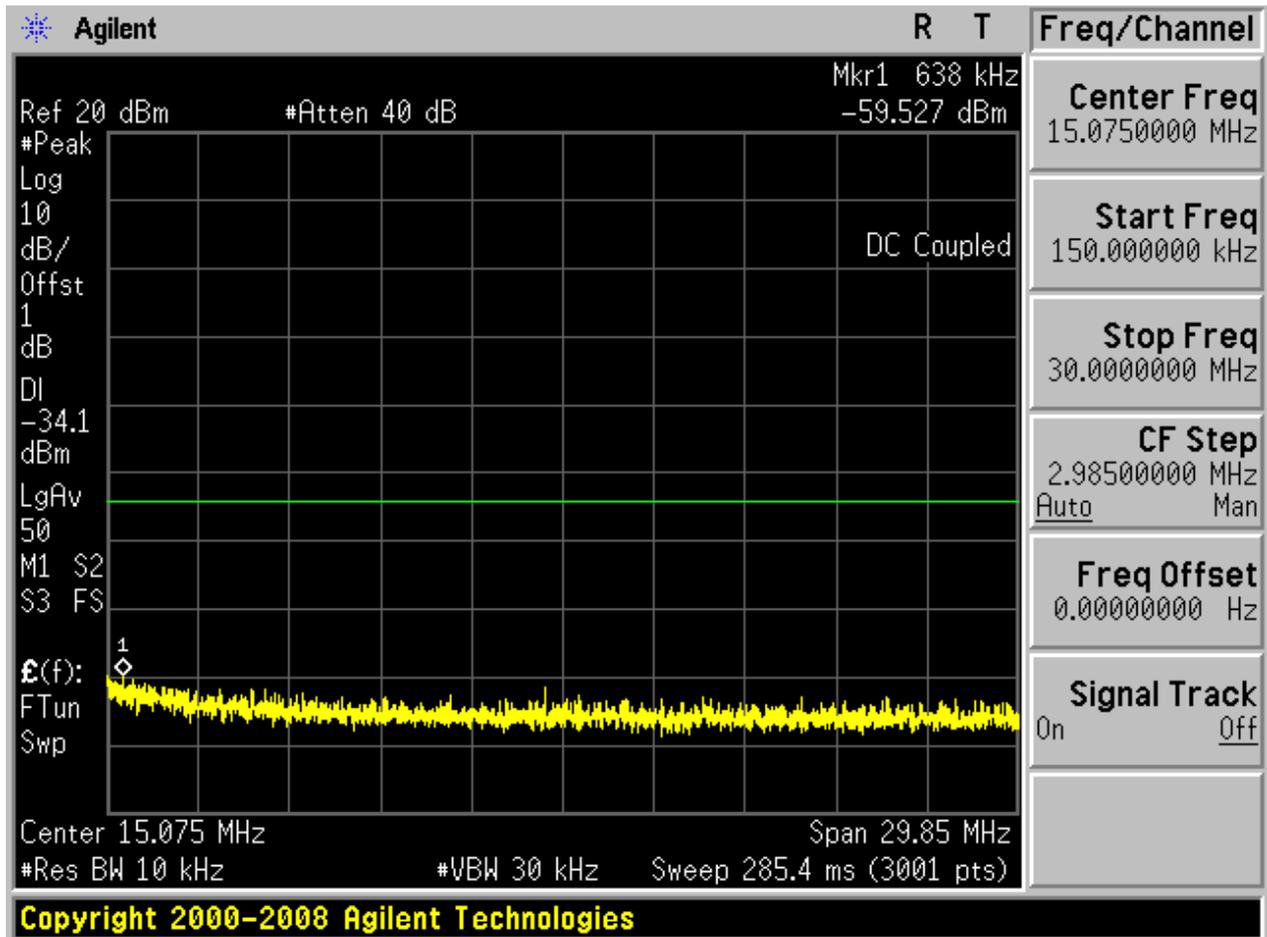
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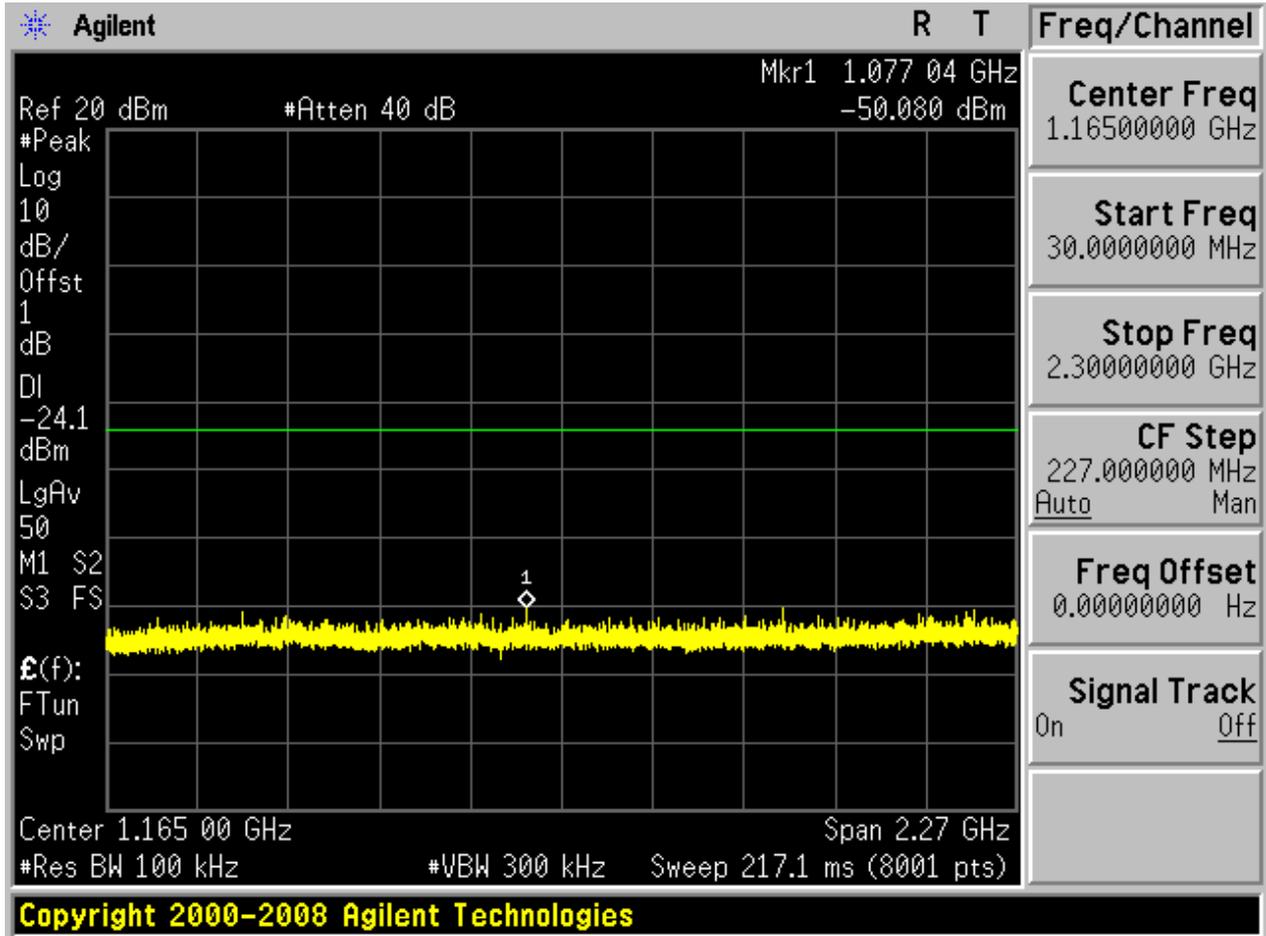


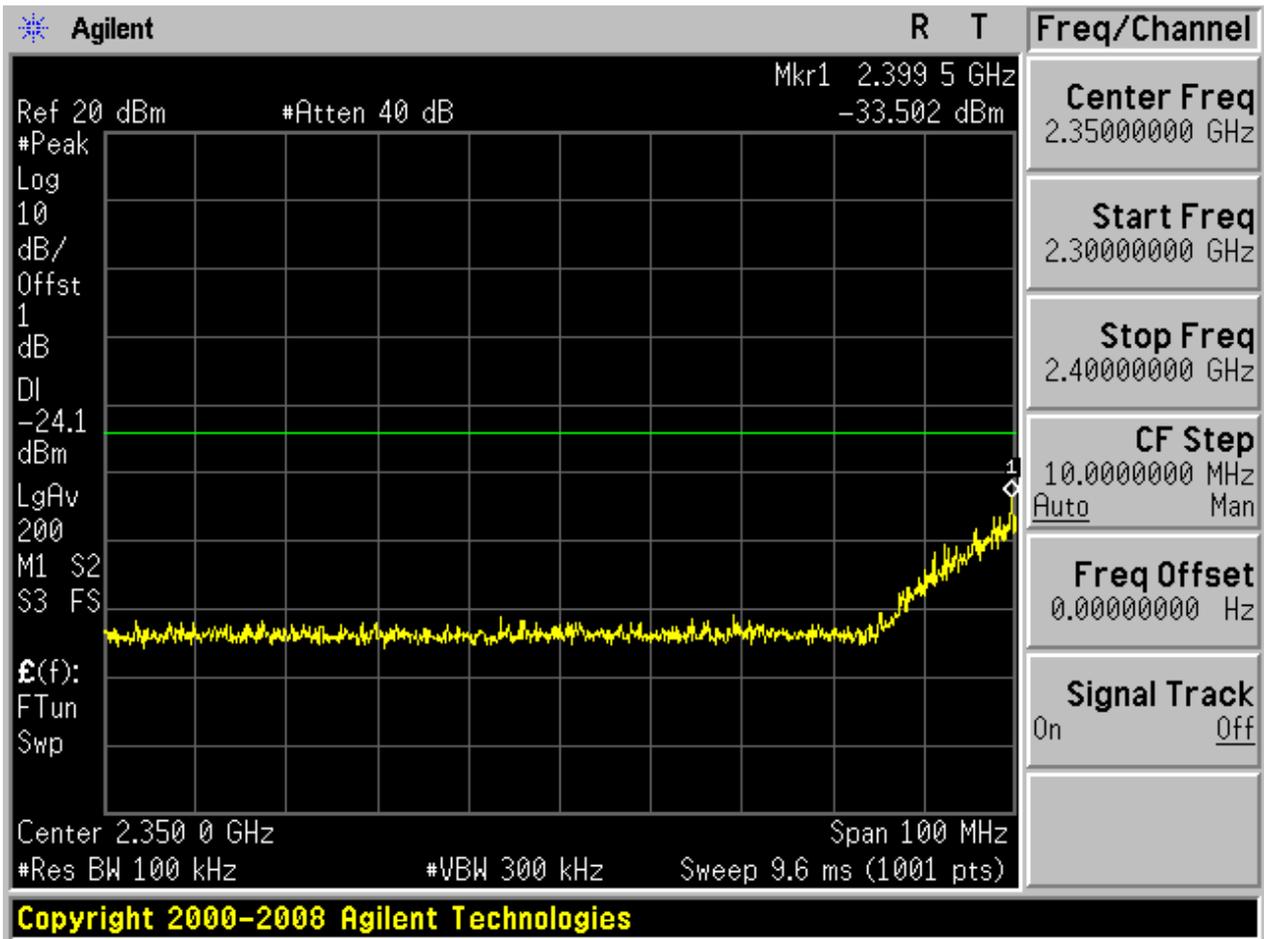


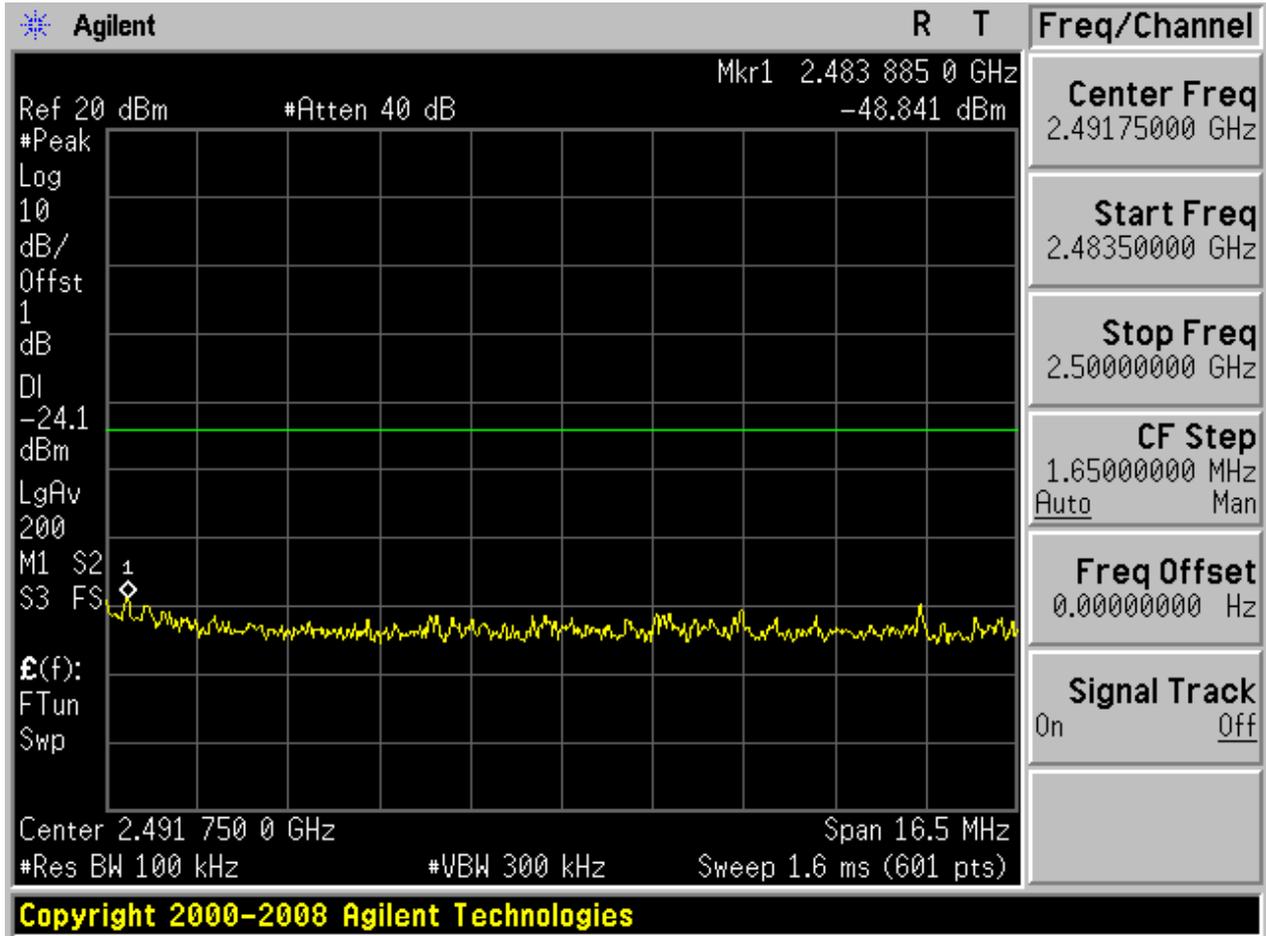
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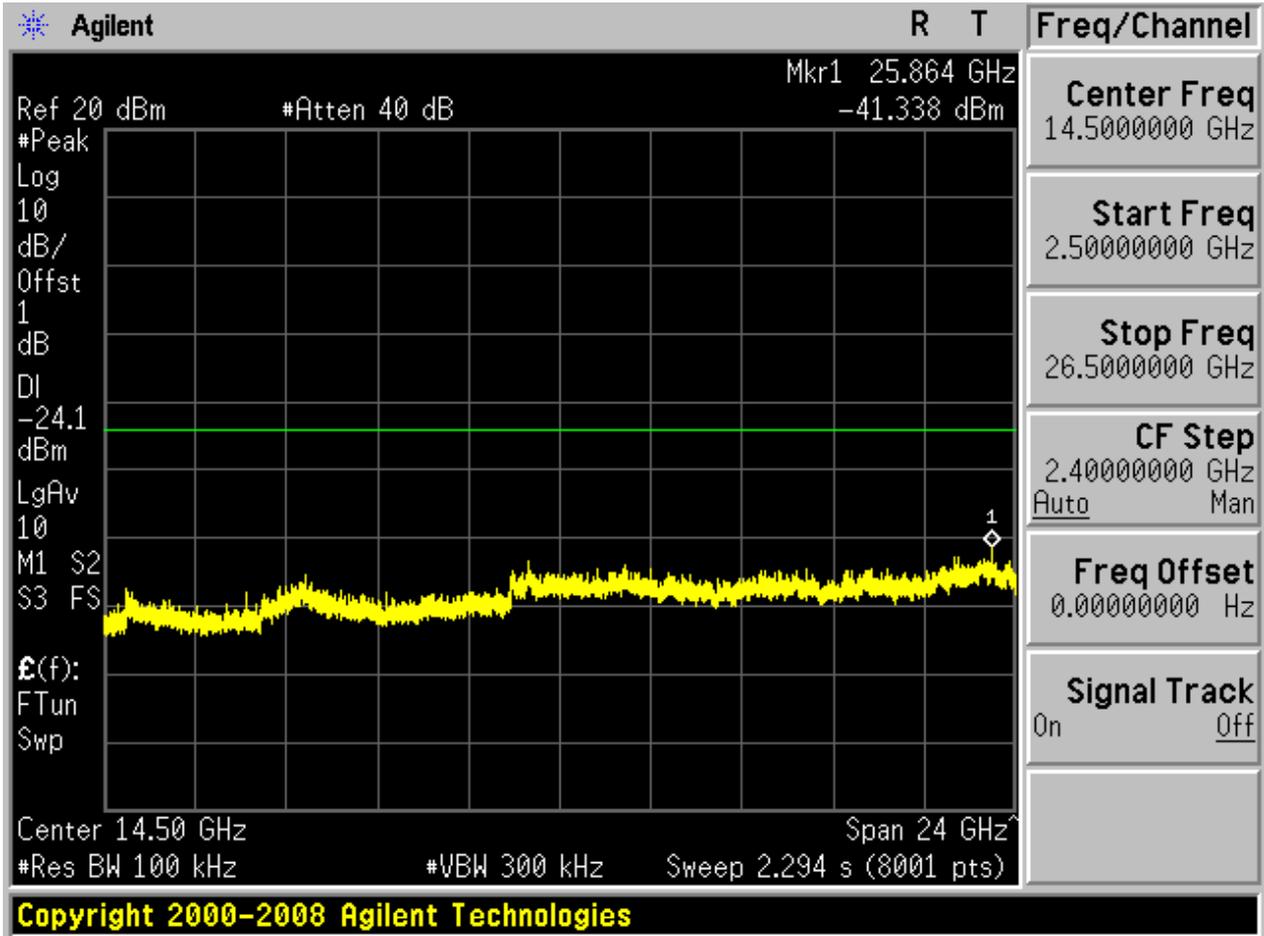








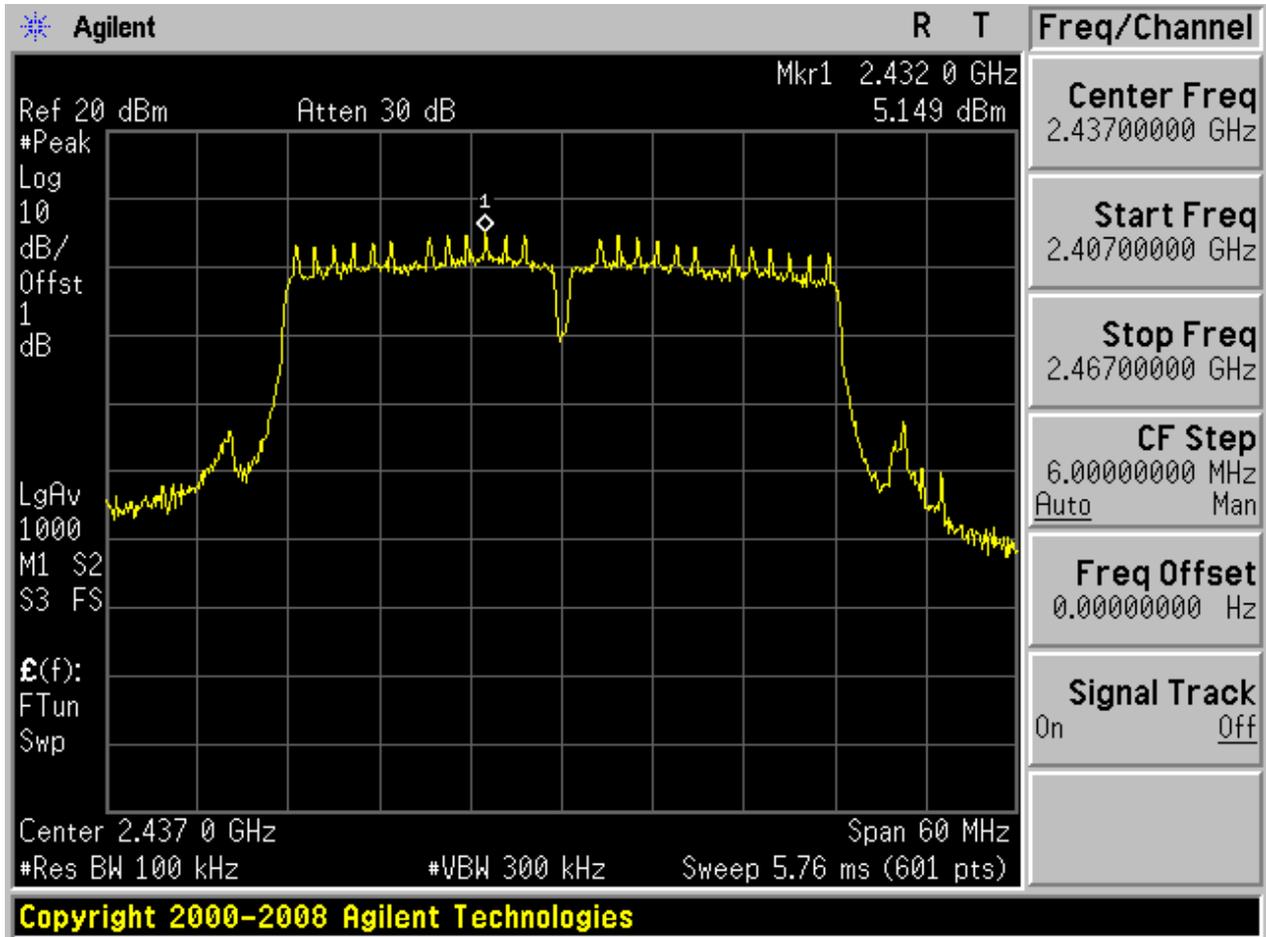






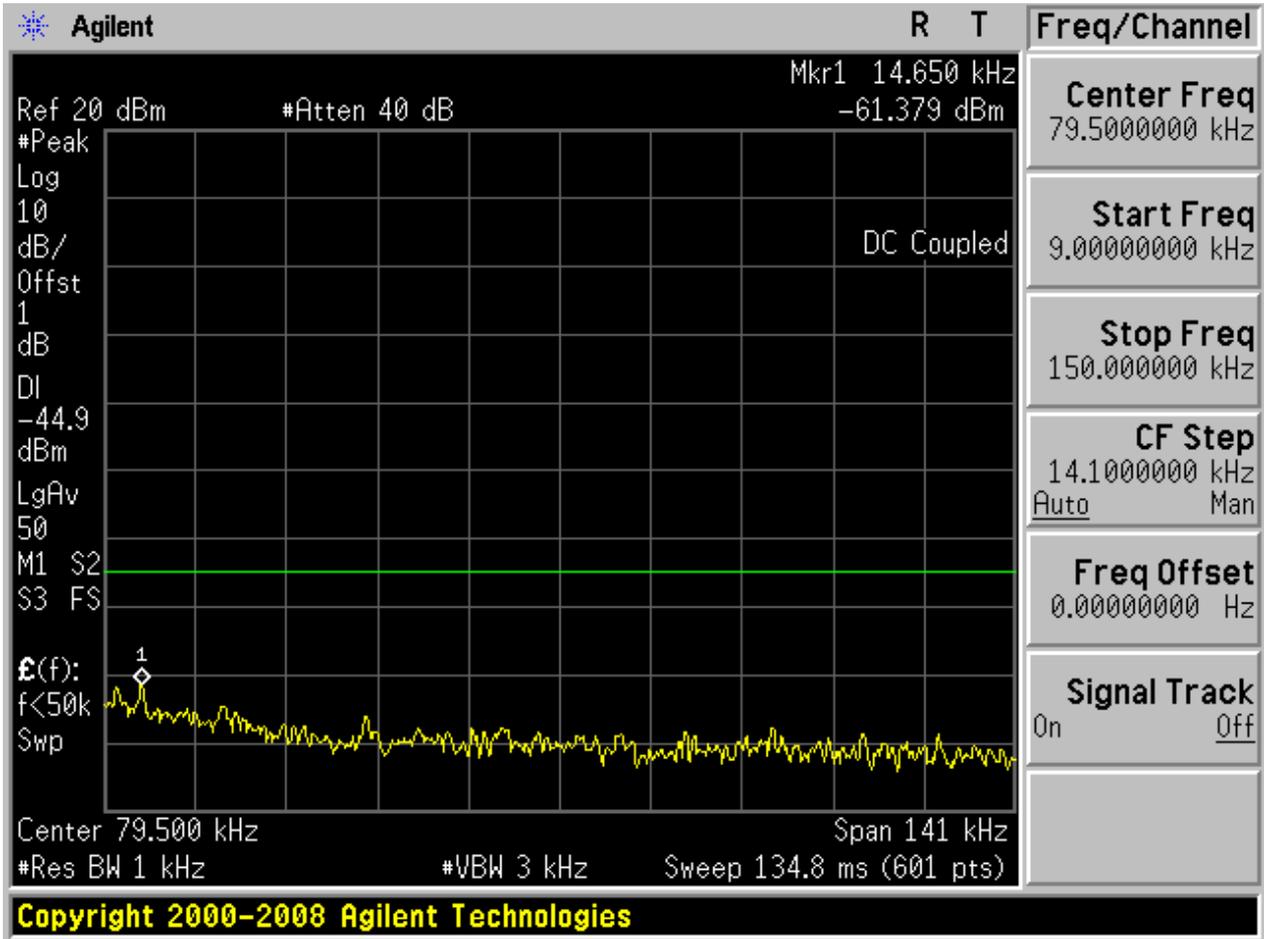
2.22 11N40\_M@Ant 2

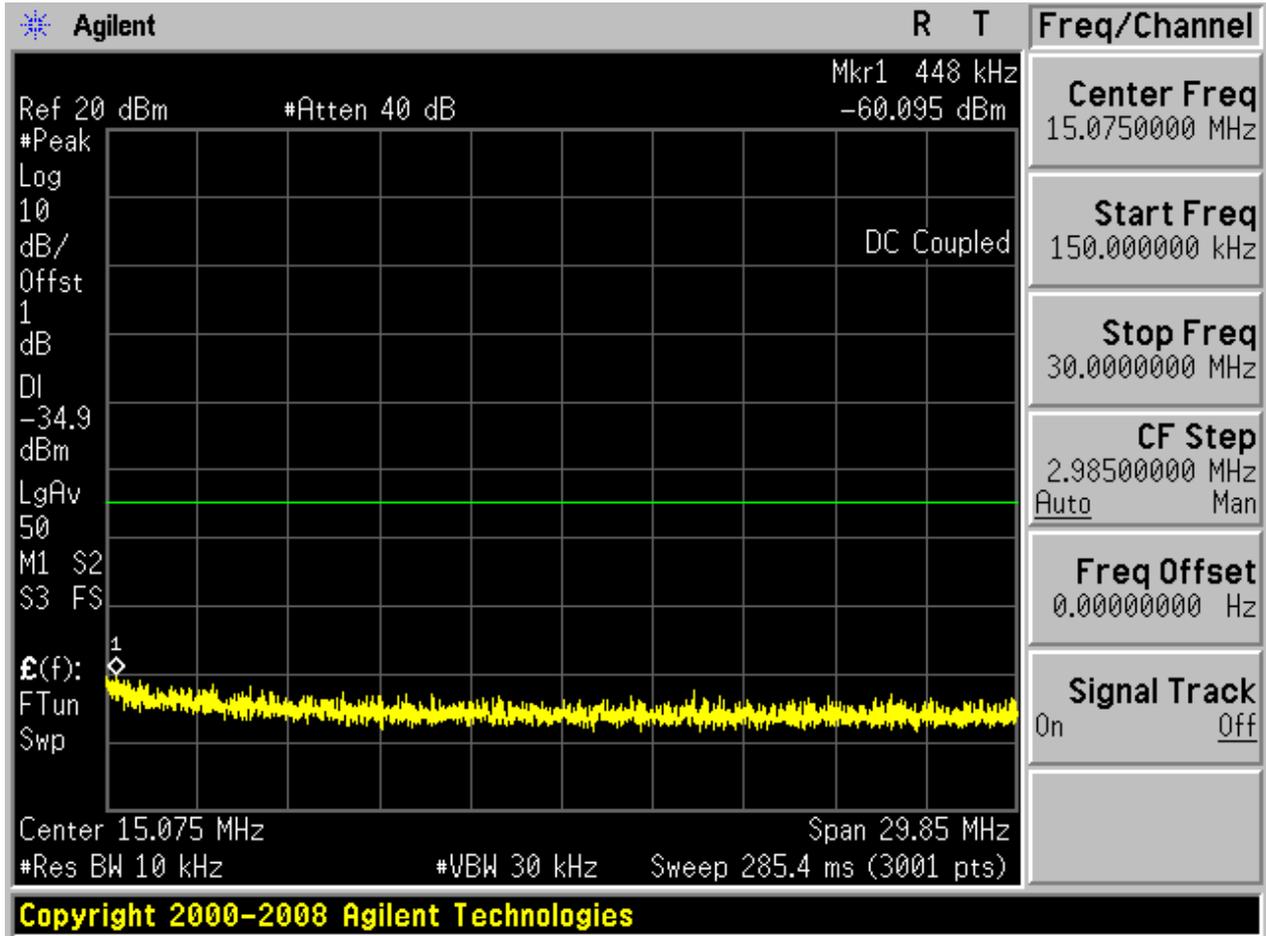
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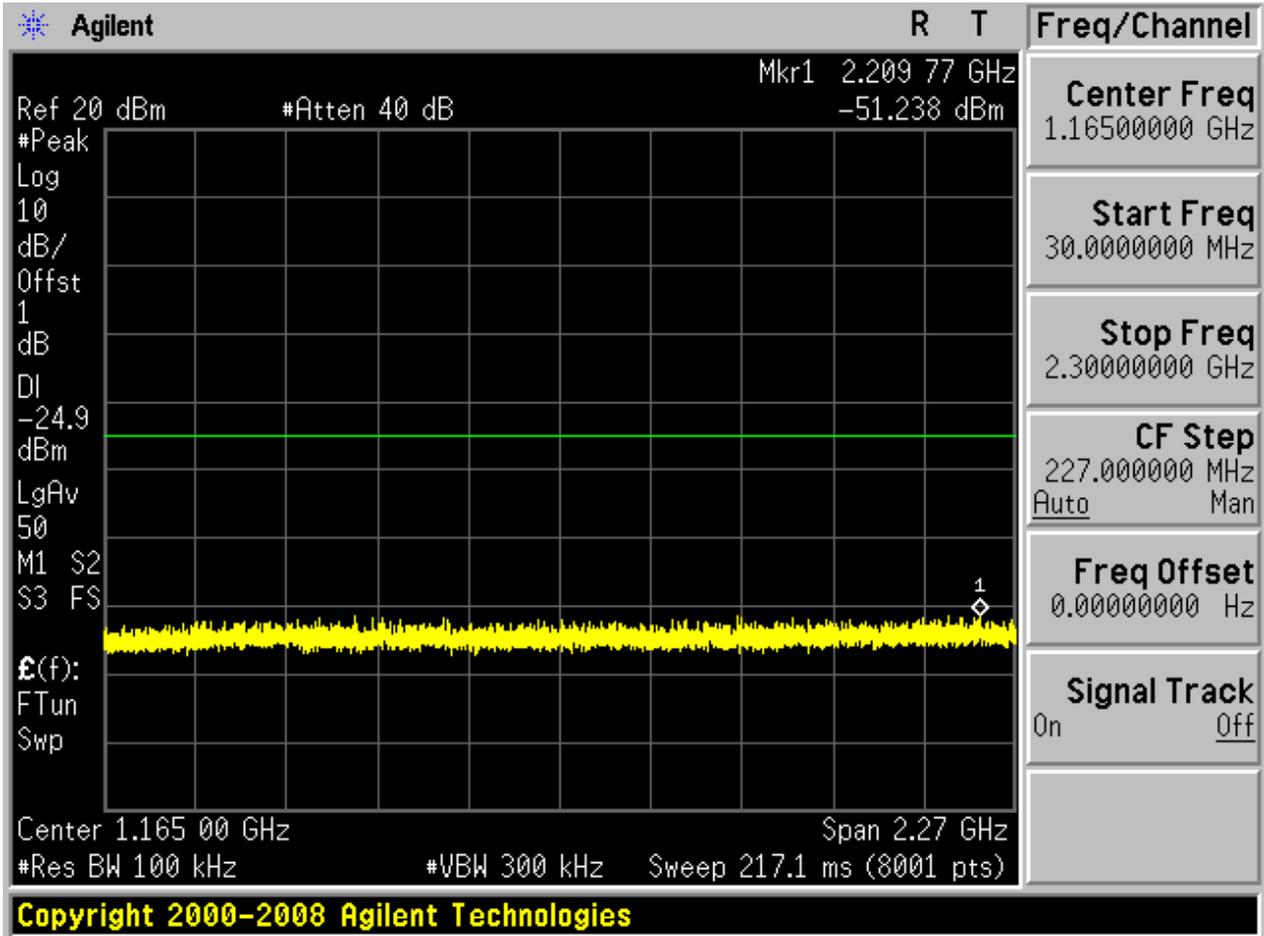


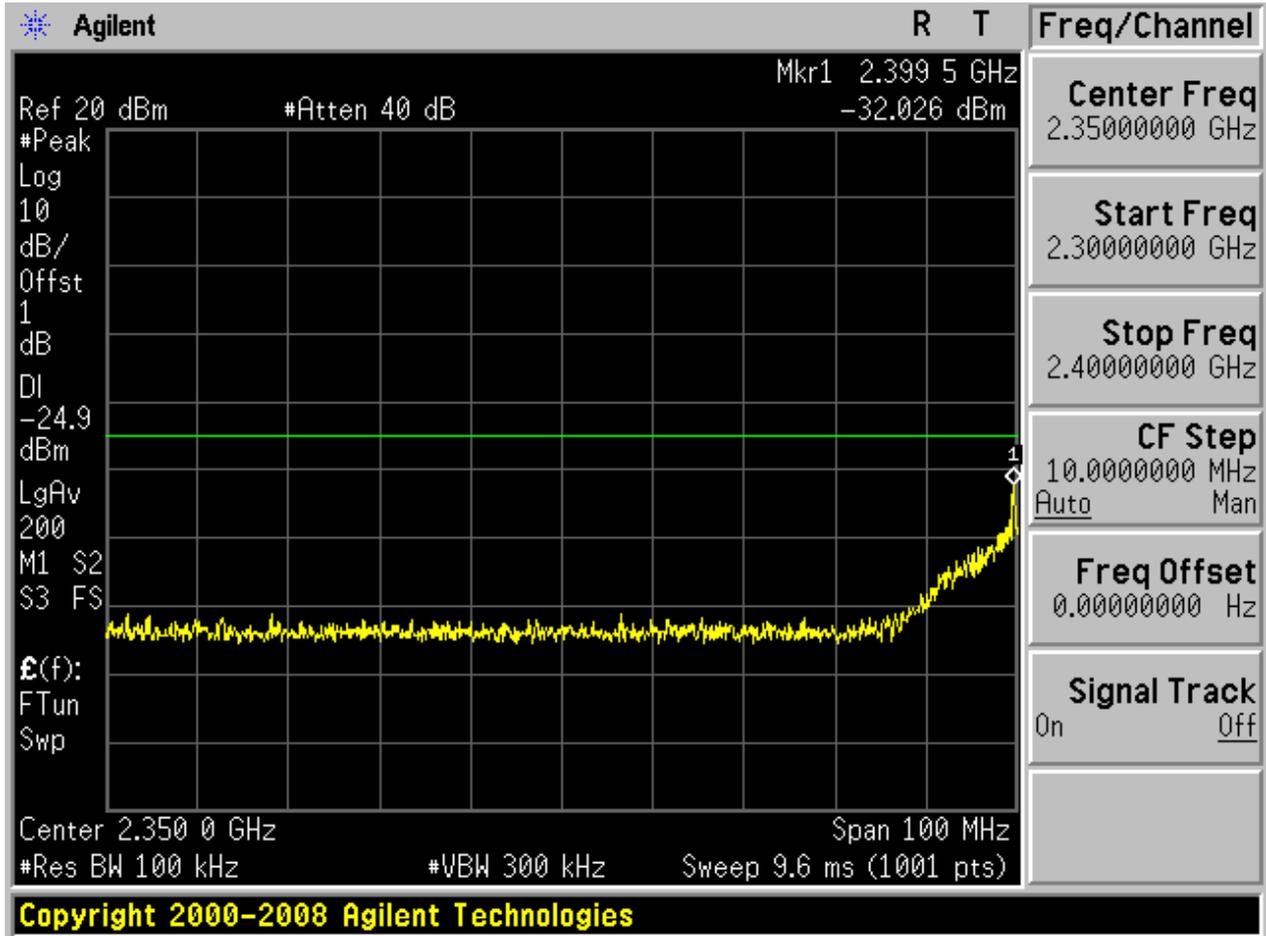


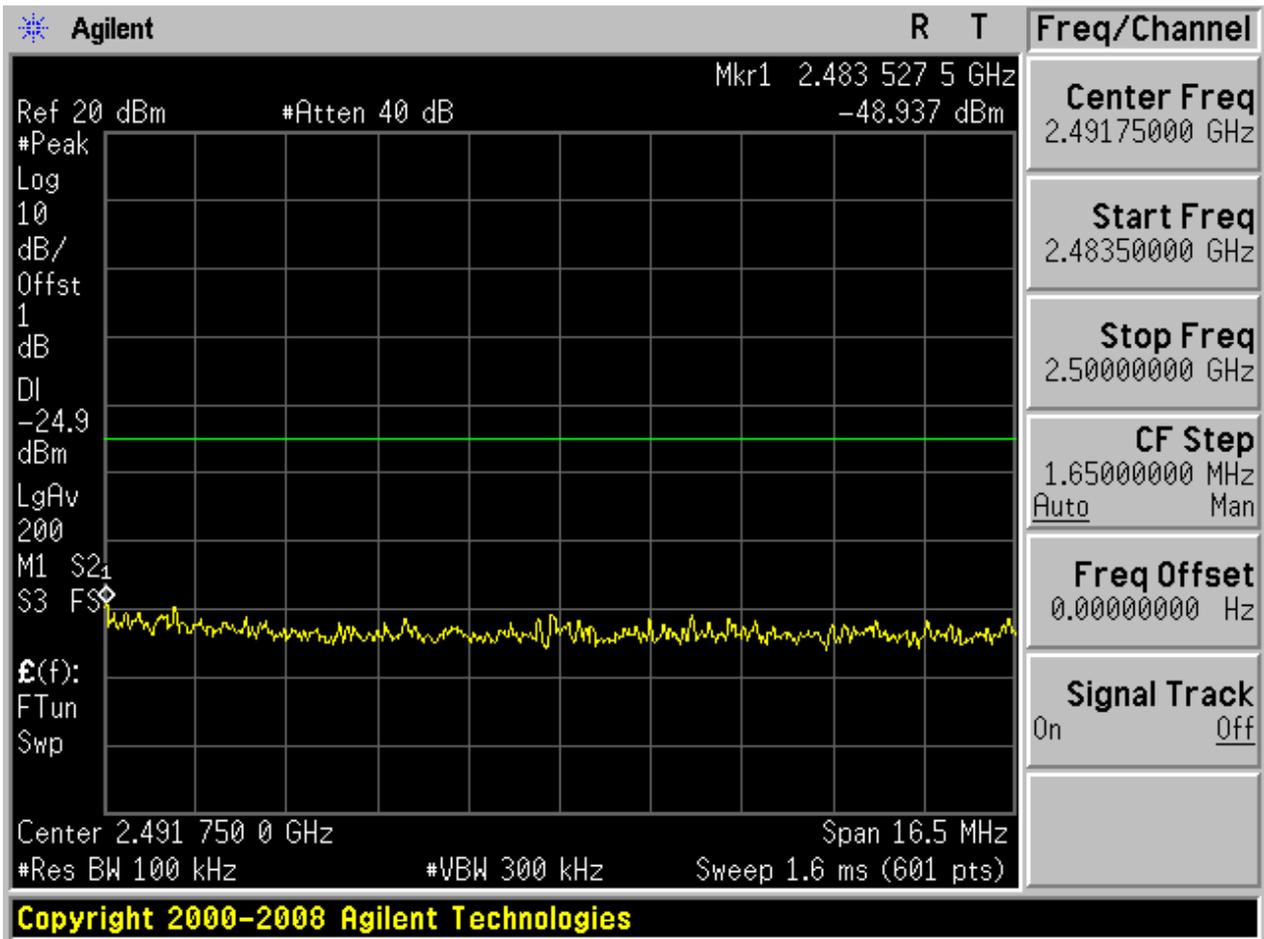
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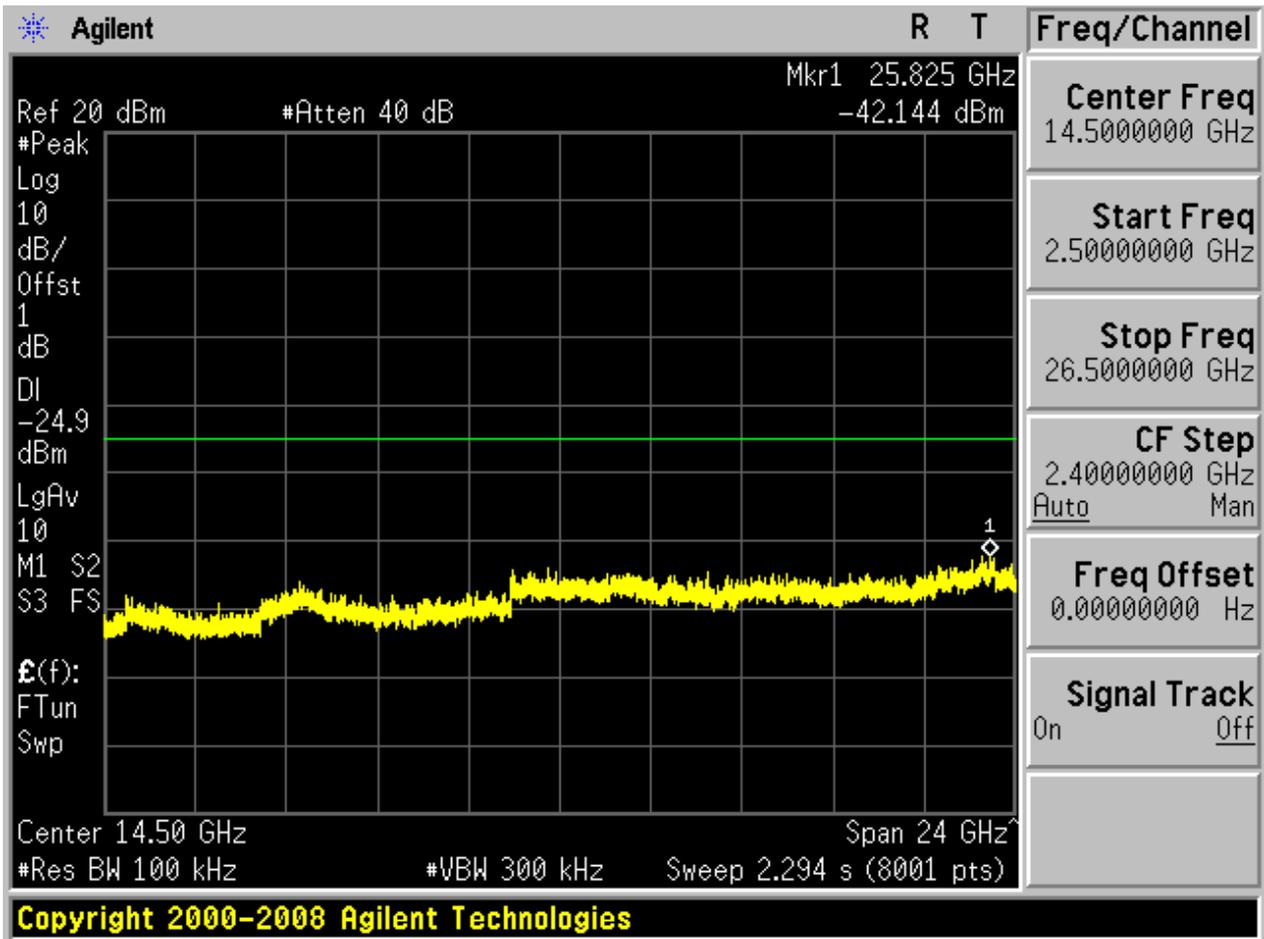








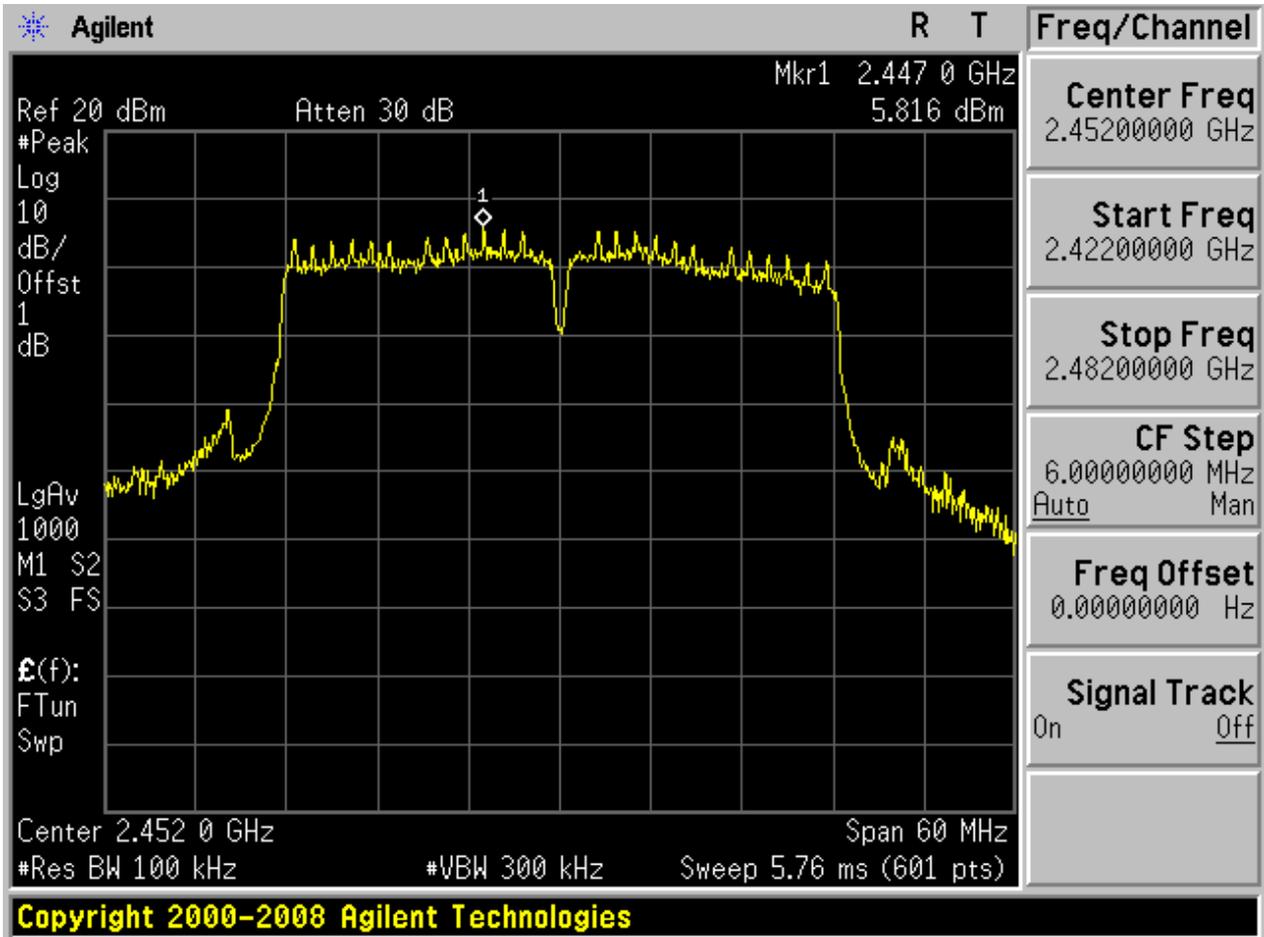






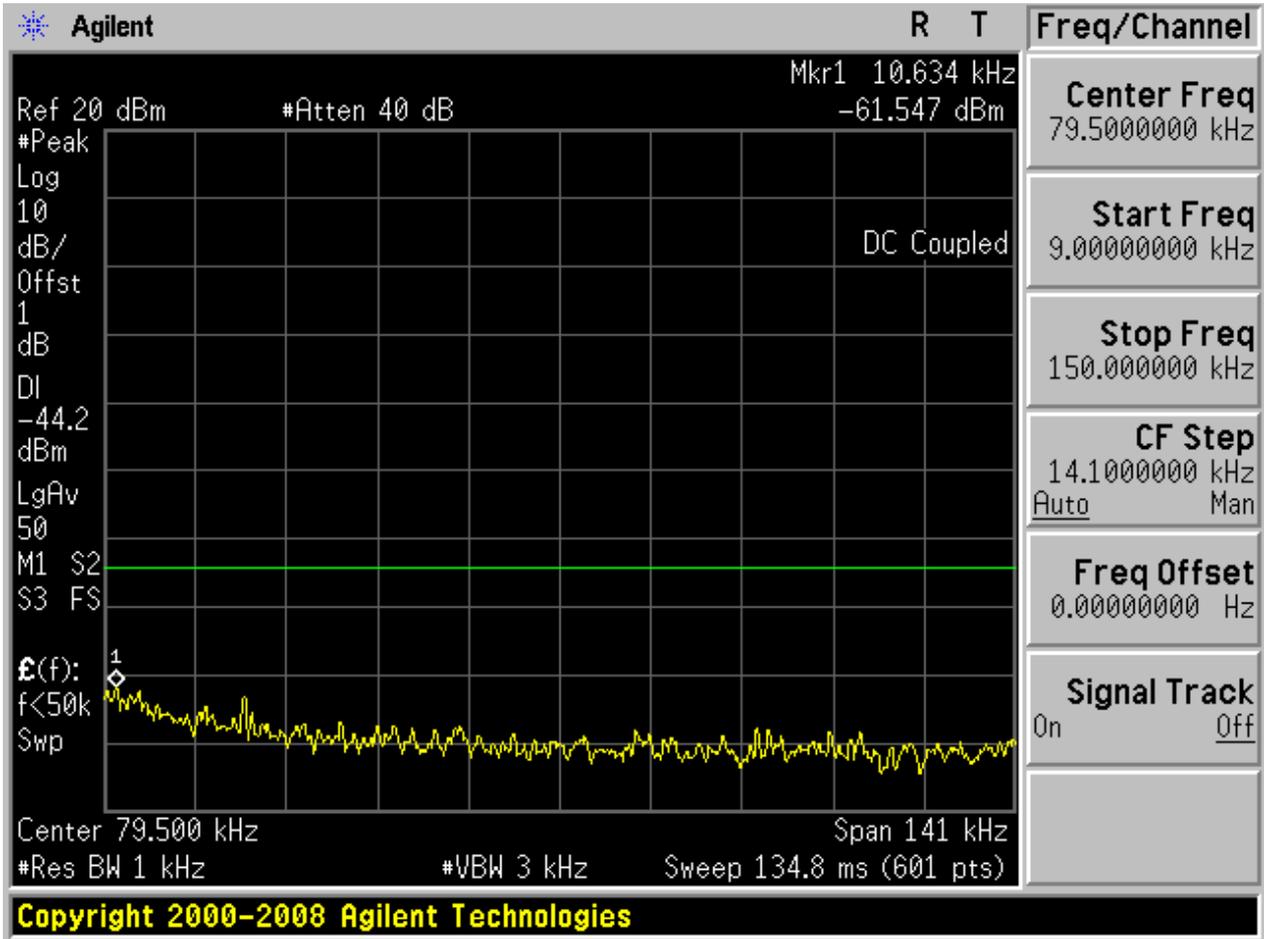
2.23 11N40\_H@Ant 1

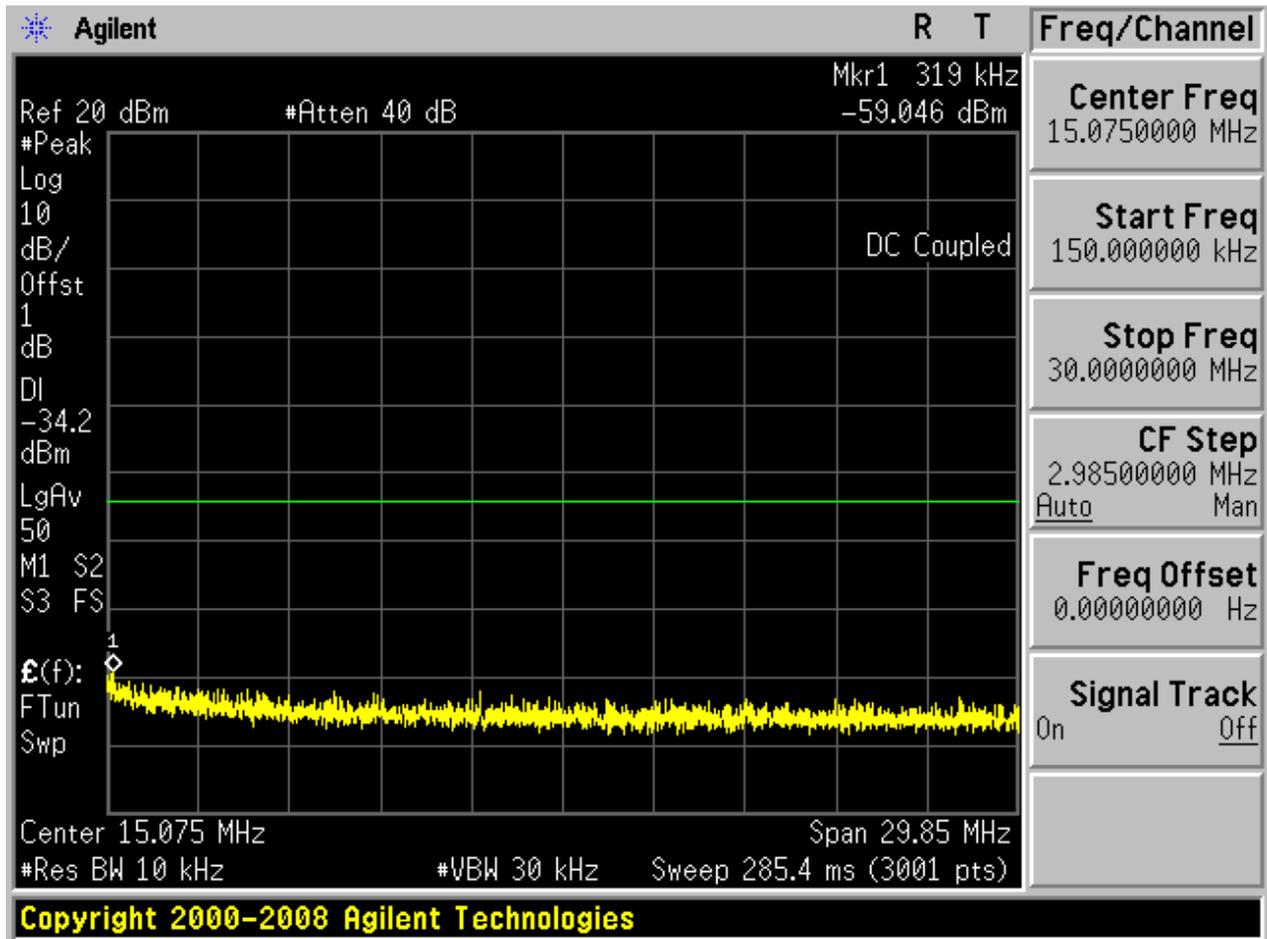
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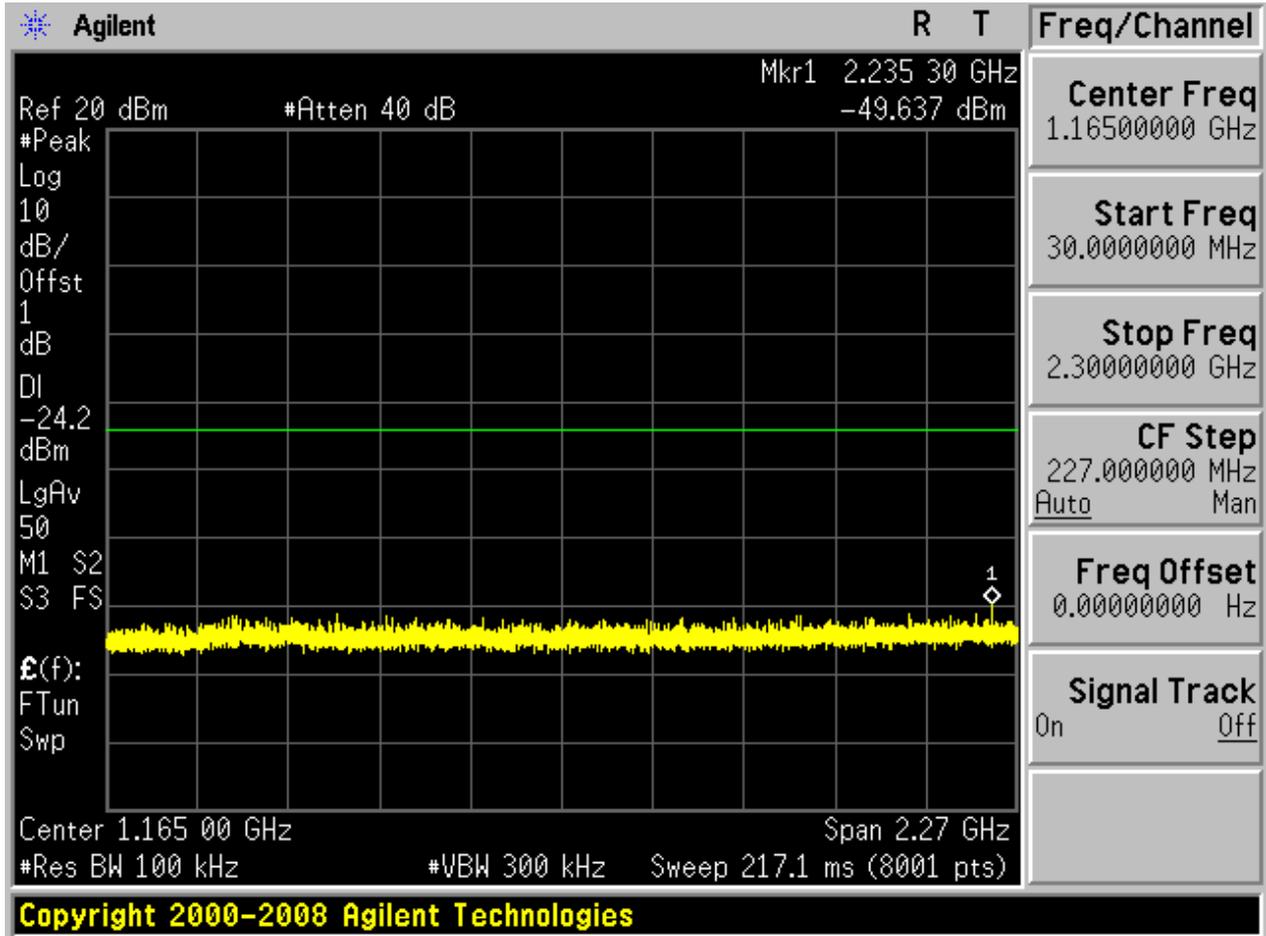


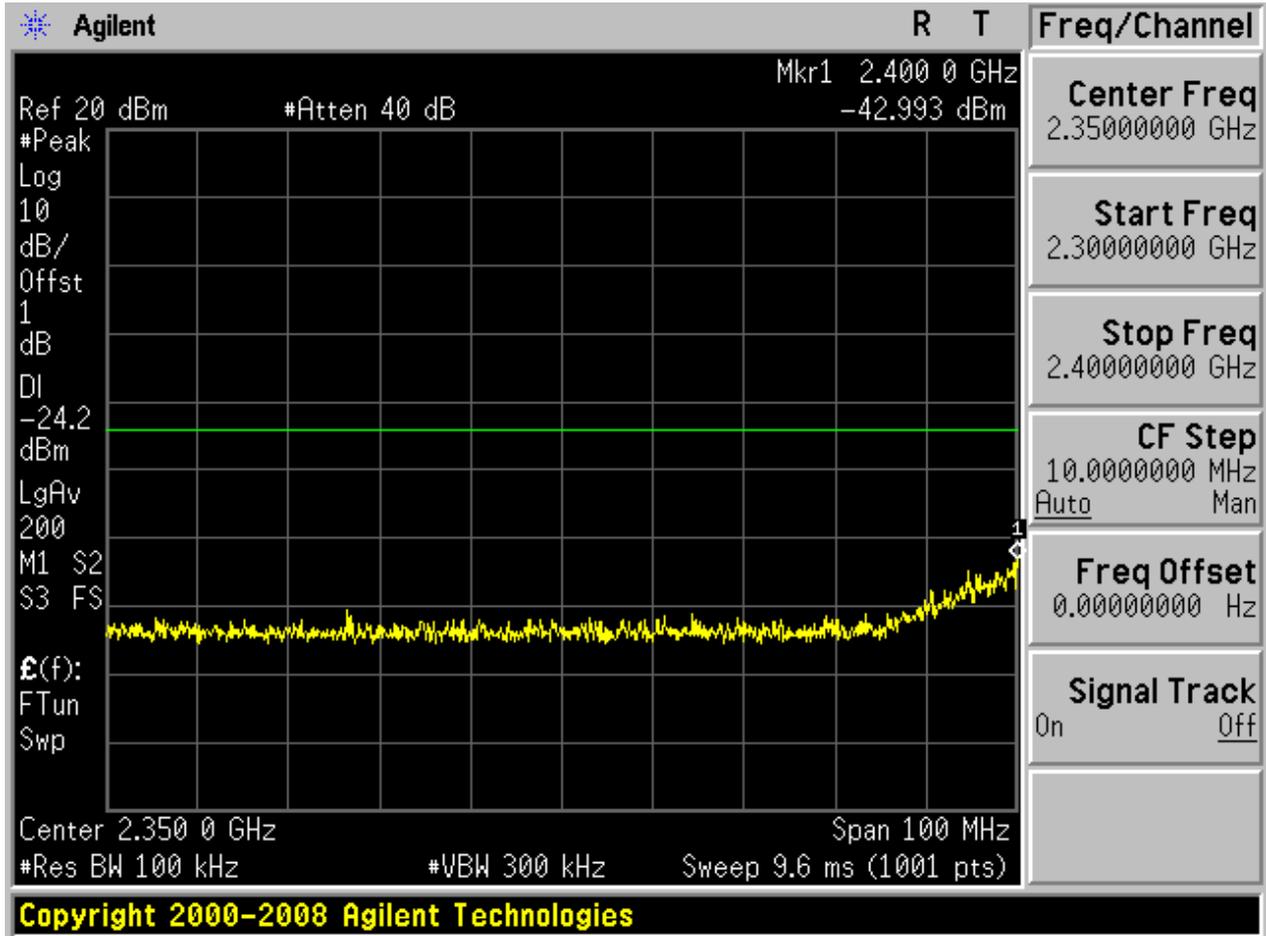


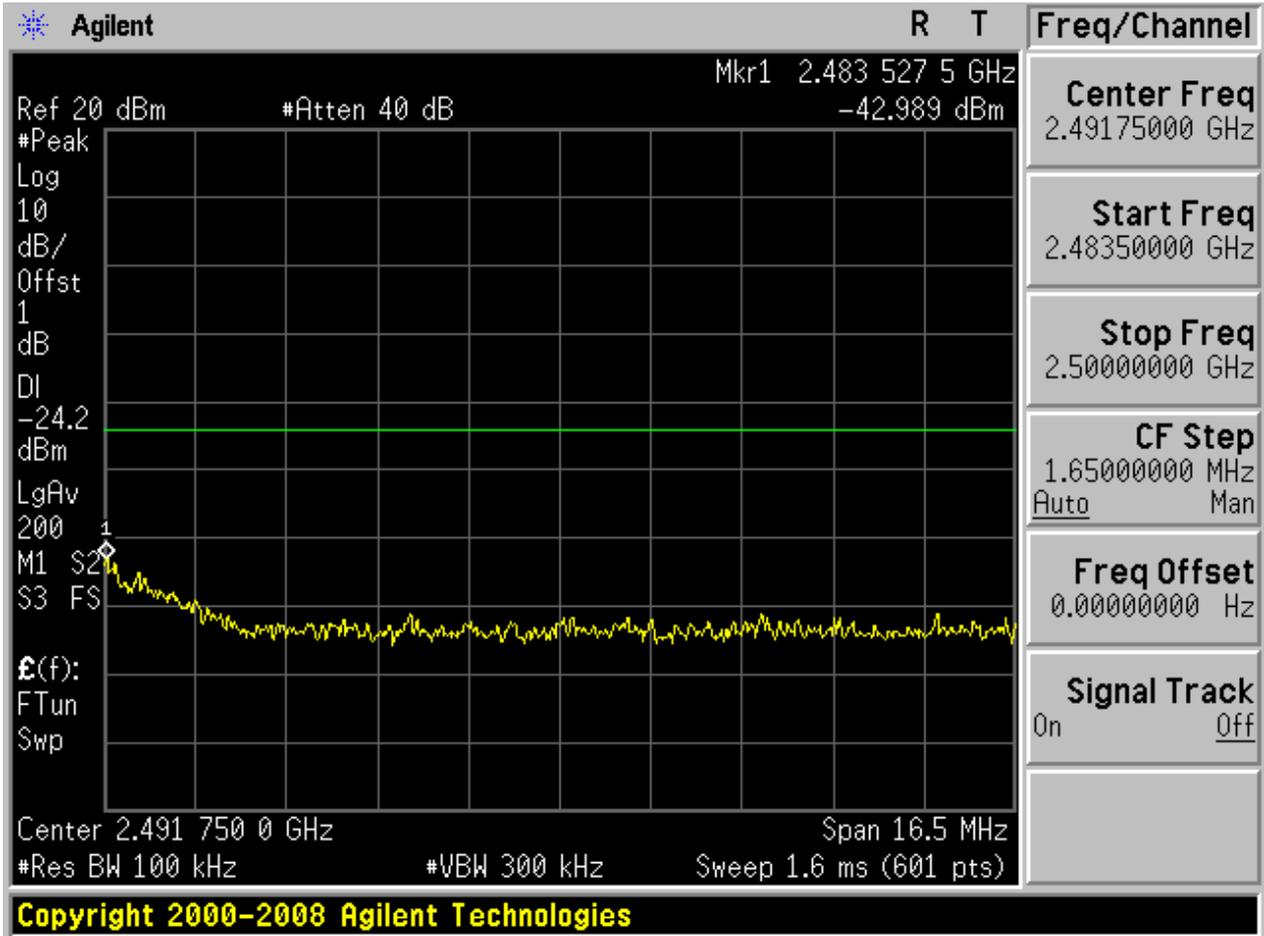
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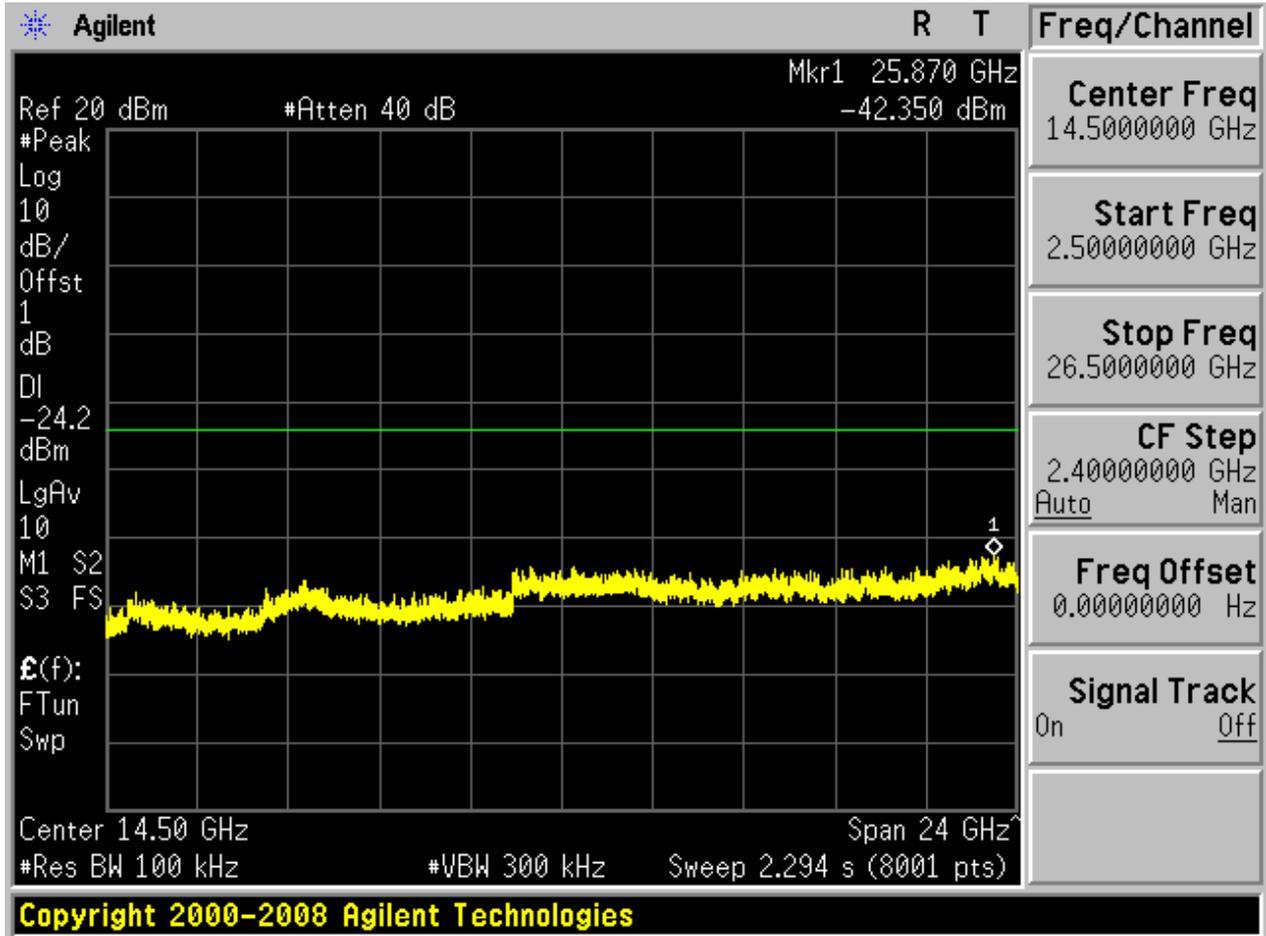








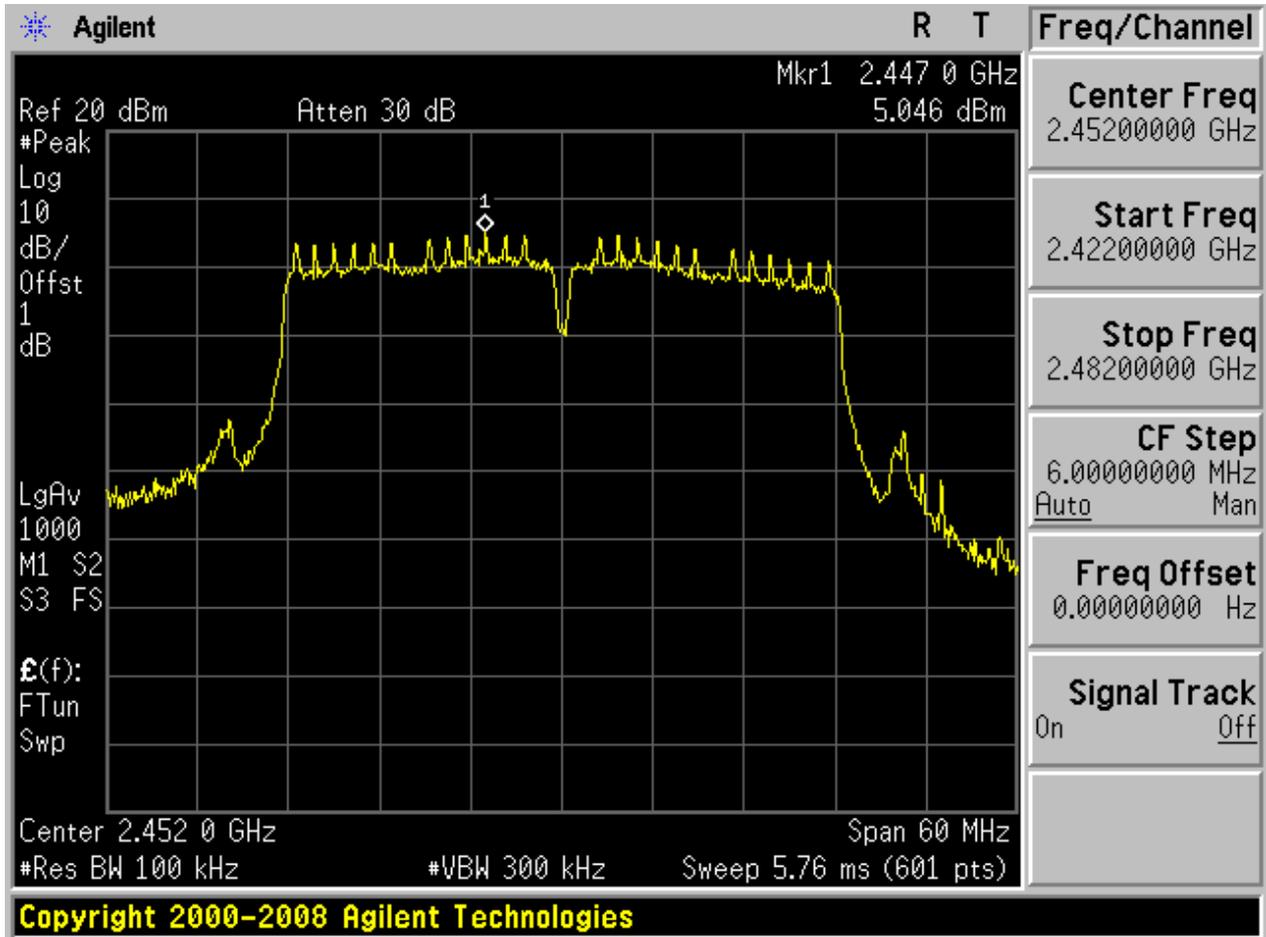






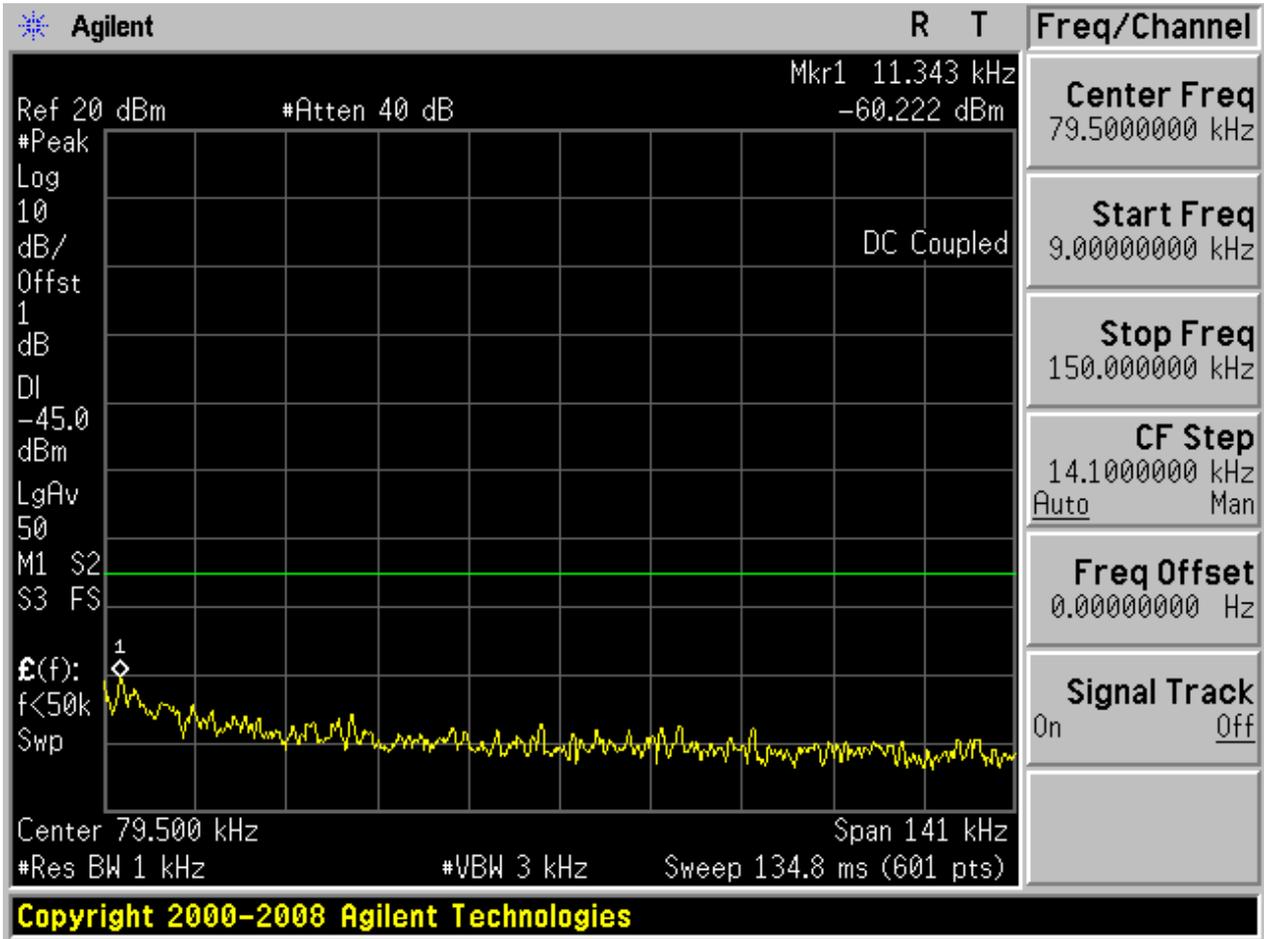
2.24 11N40\_H@Ant 2

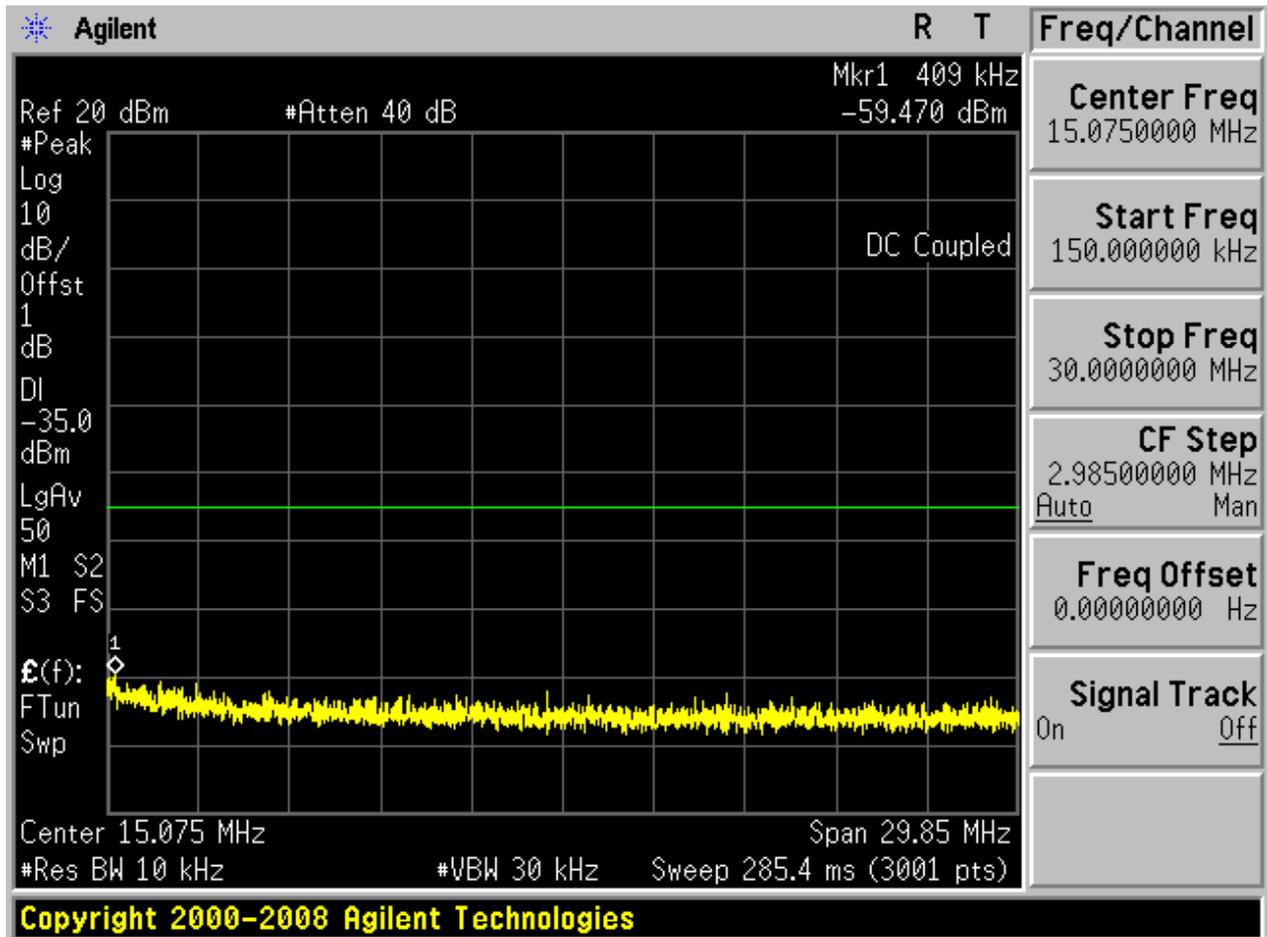
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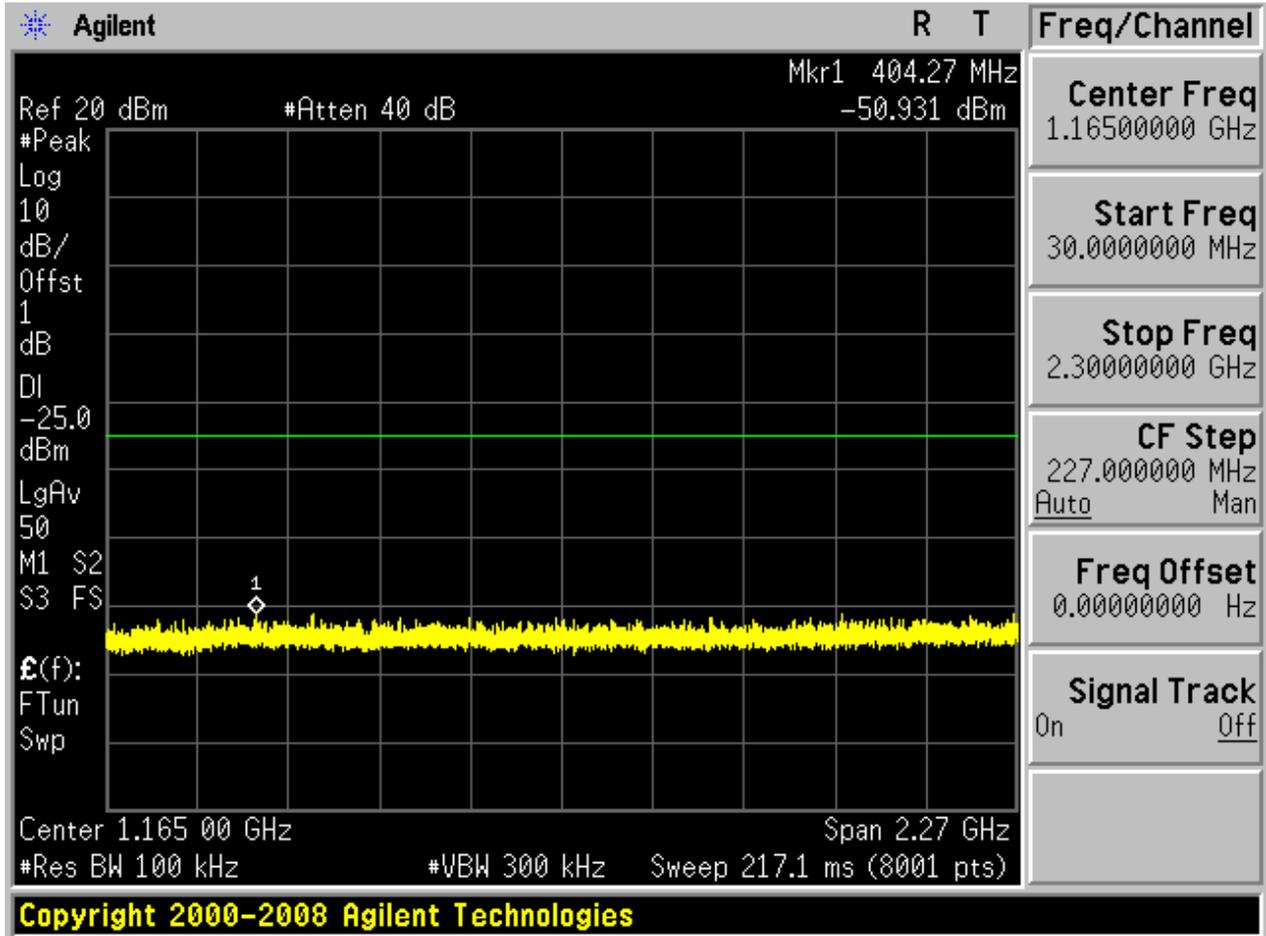


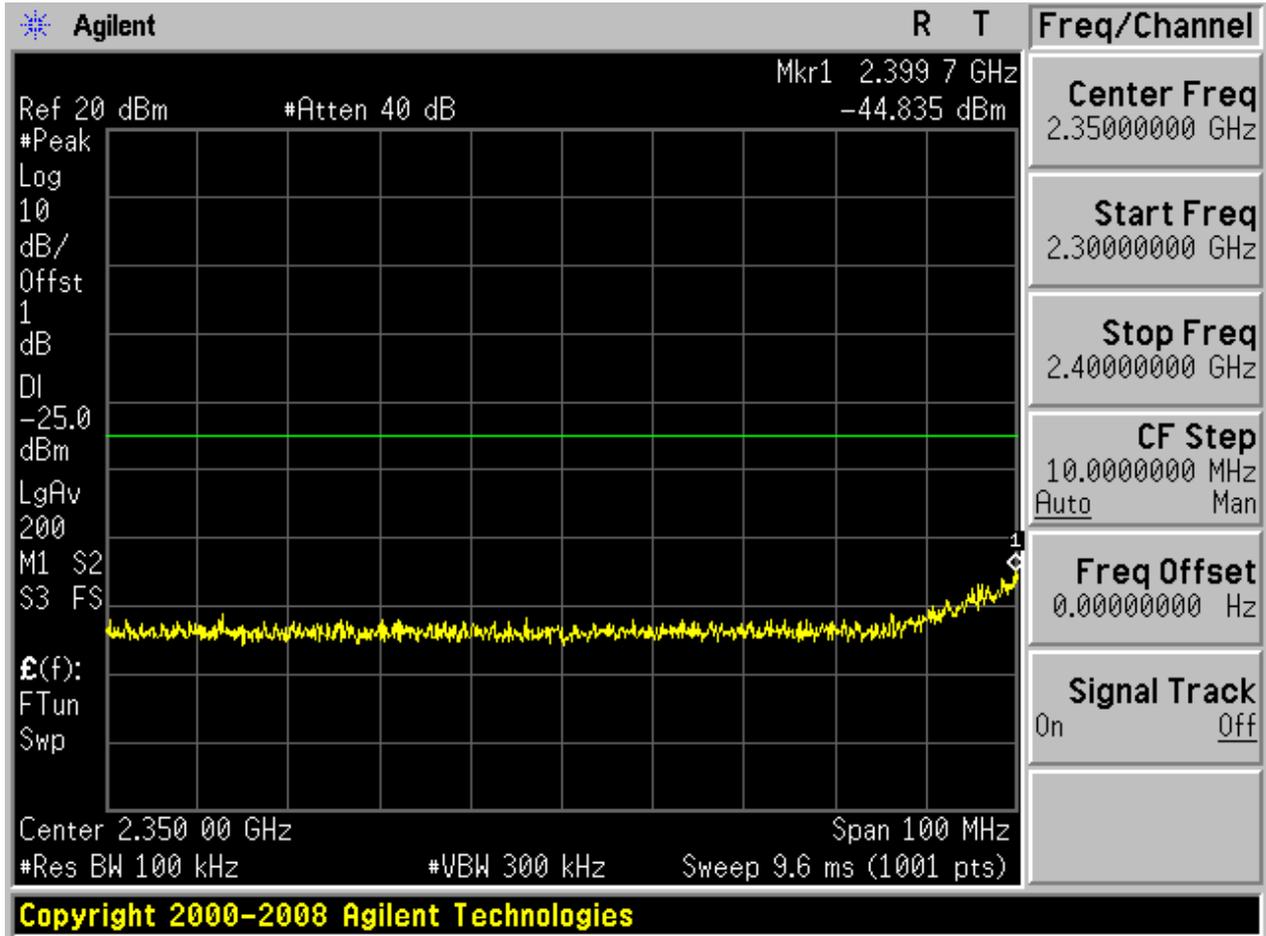


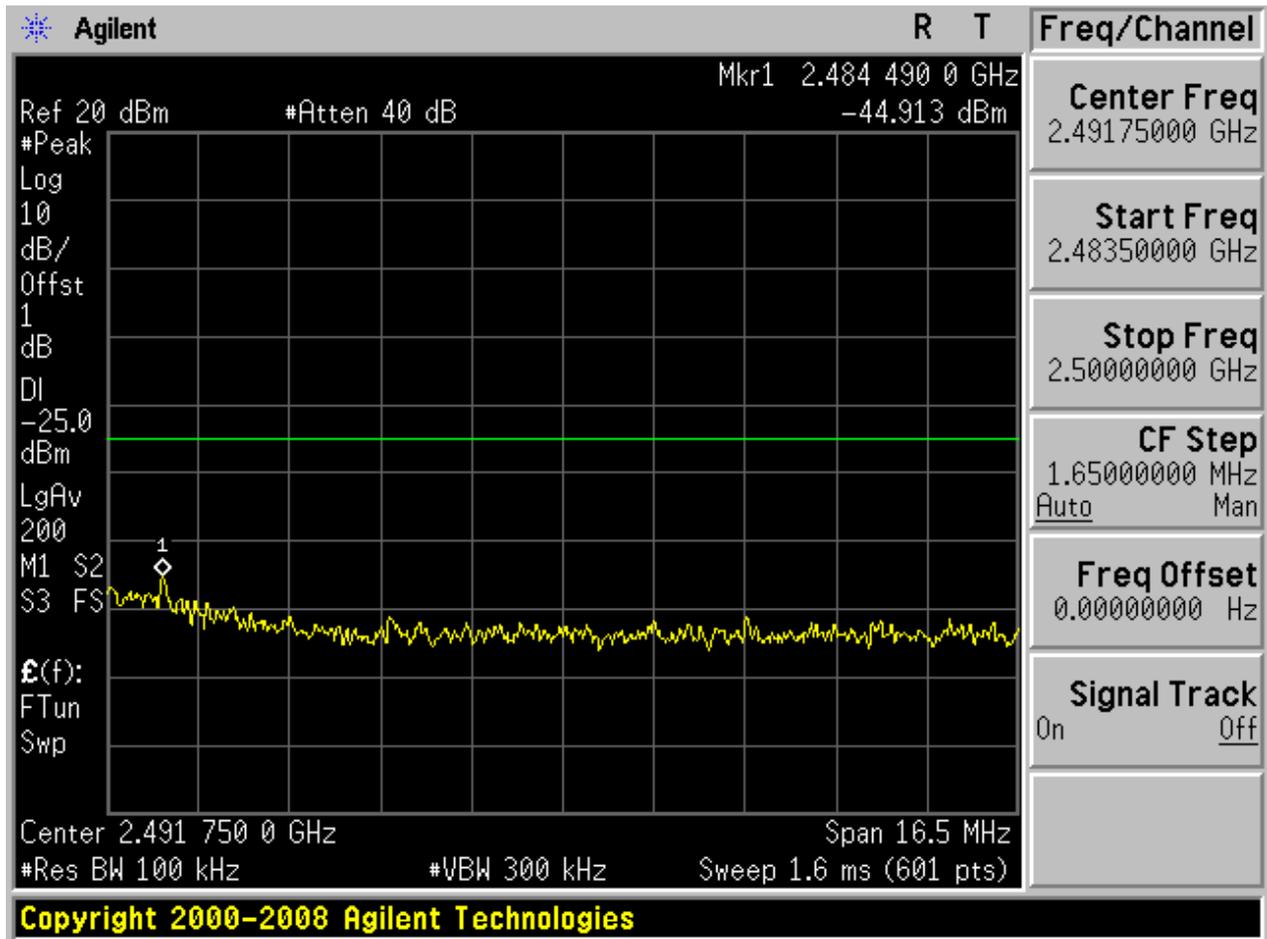
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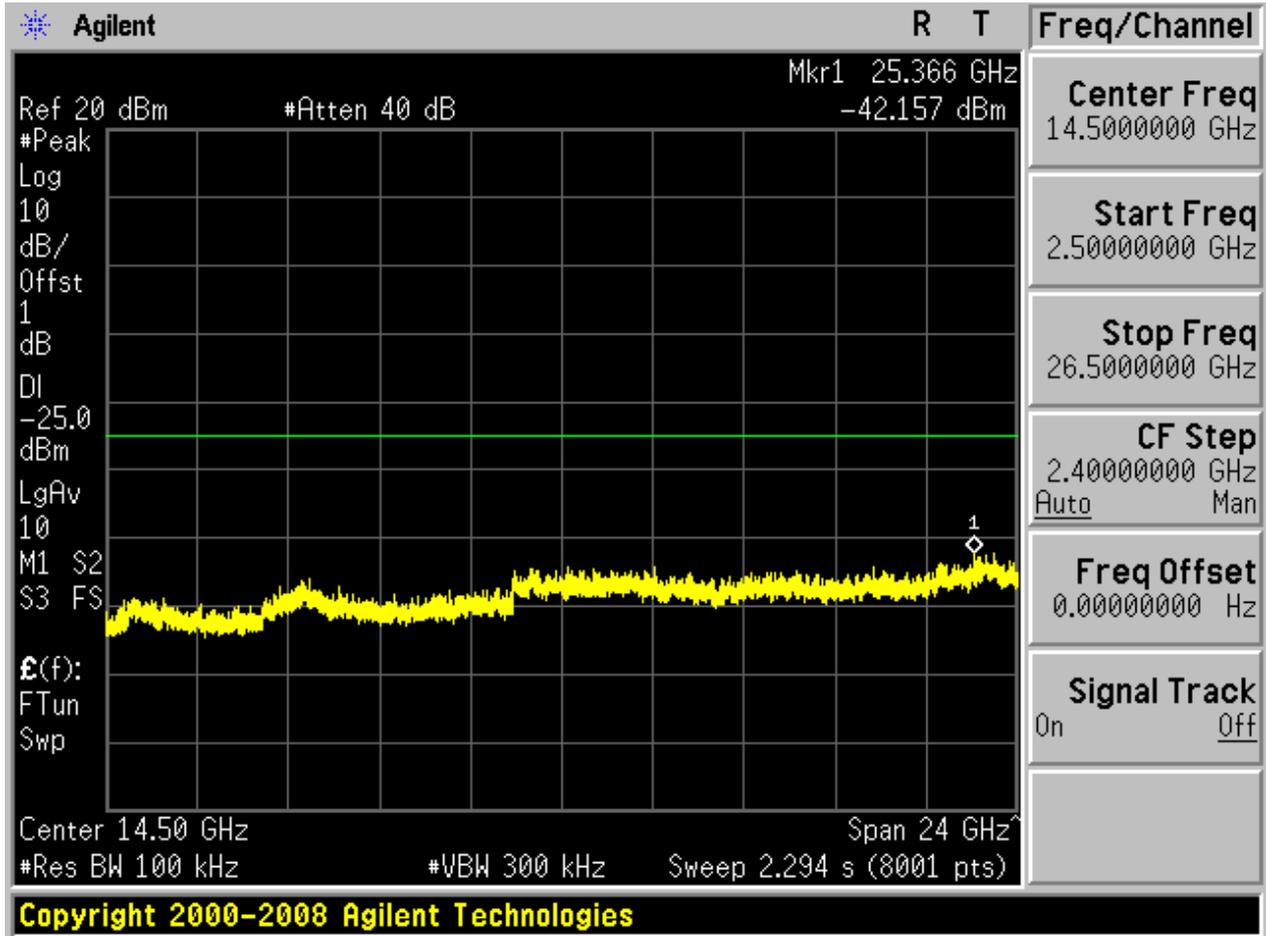








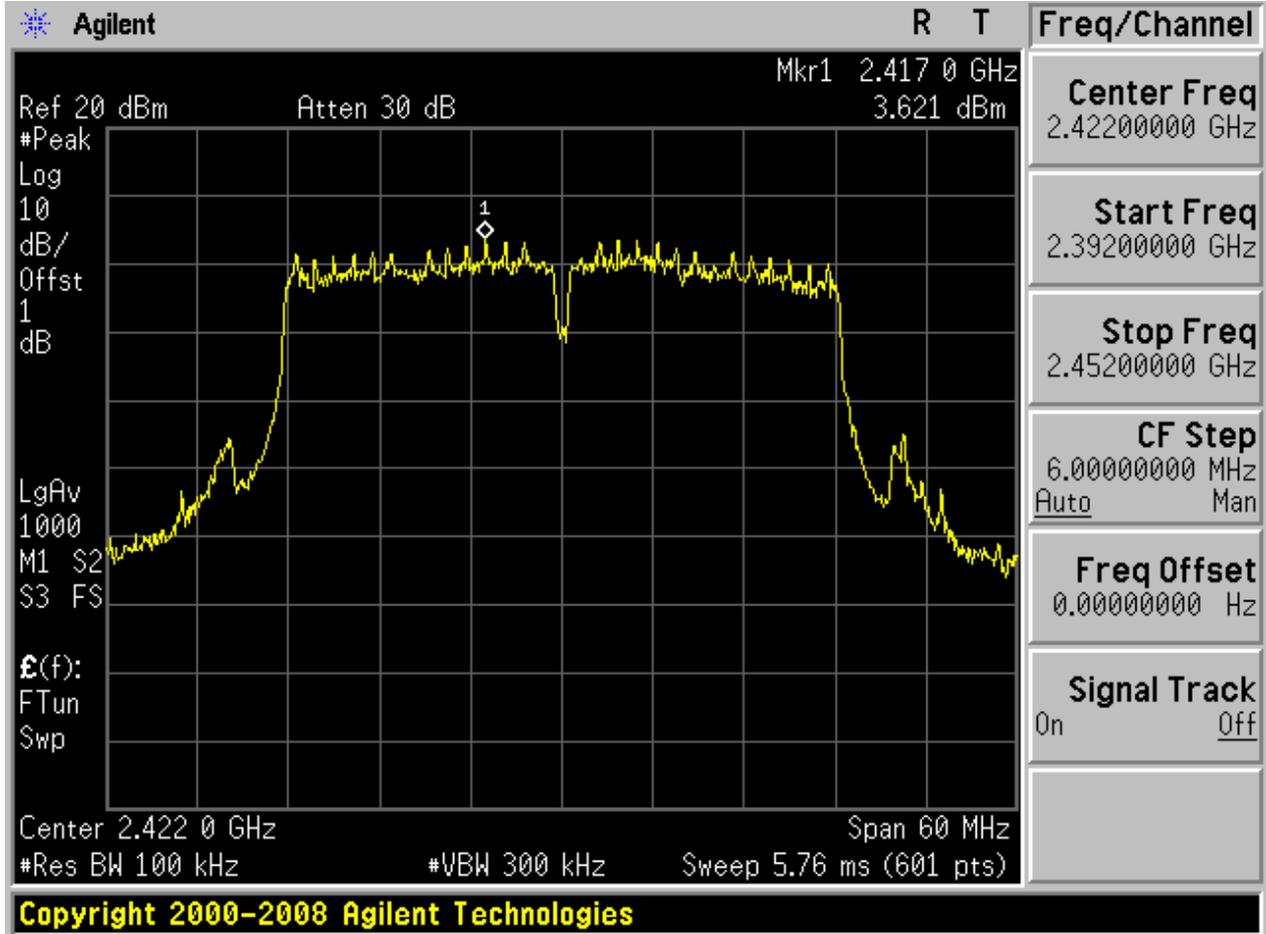






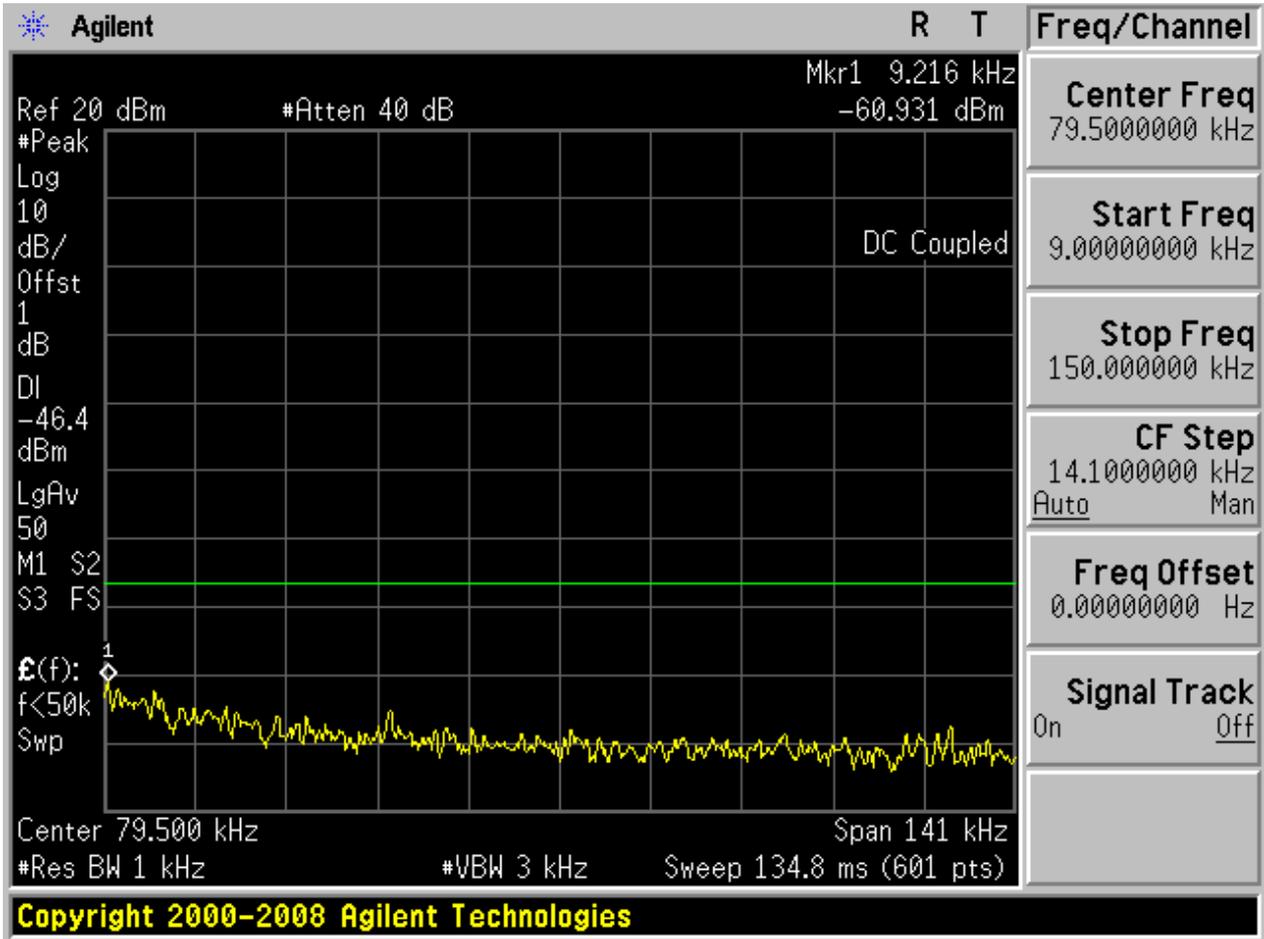
2.31 11N40m\_L@Ant 1

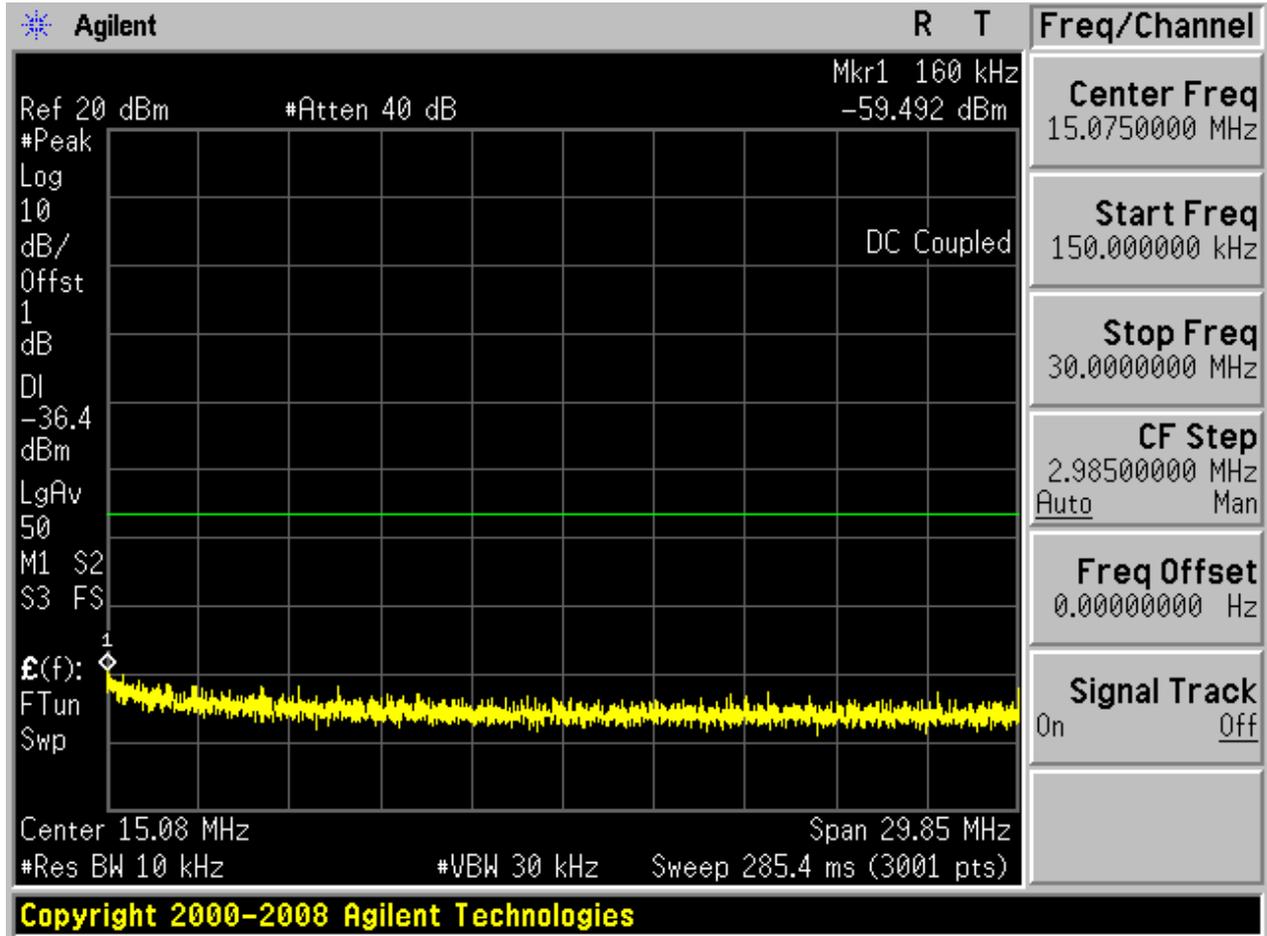
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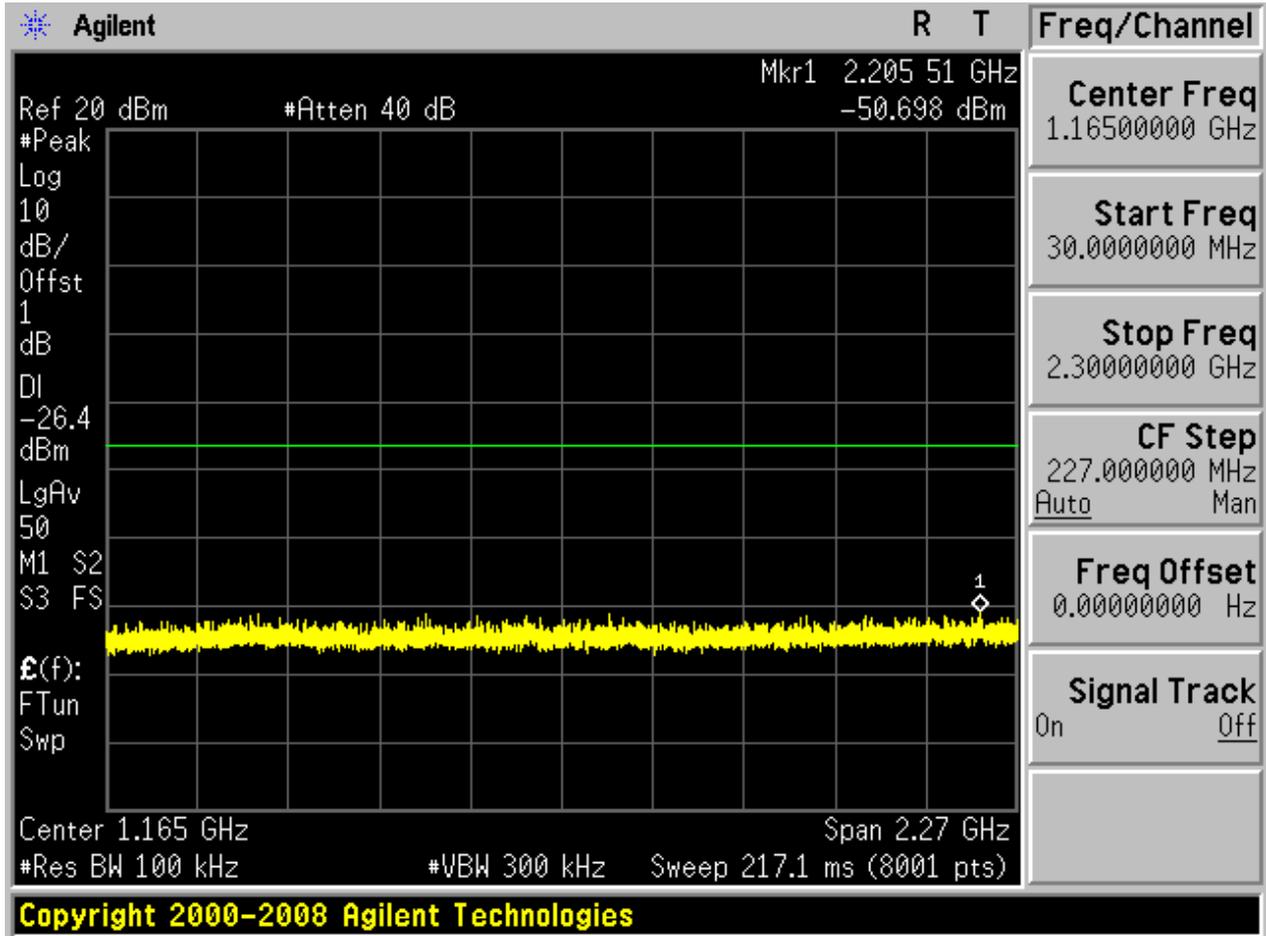


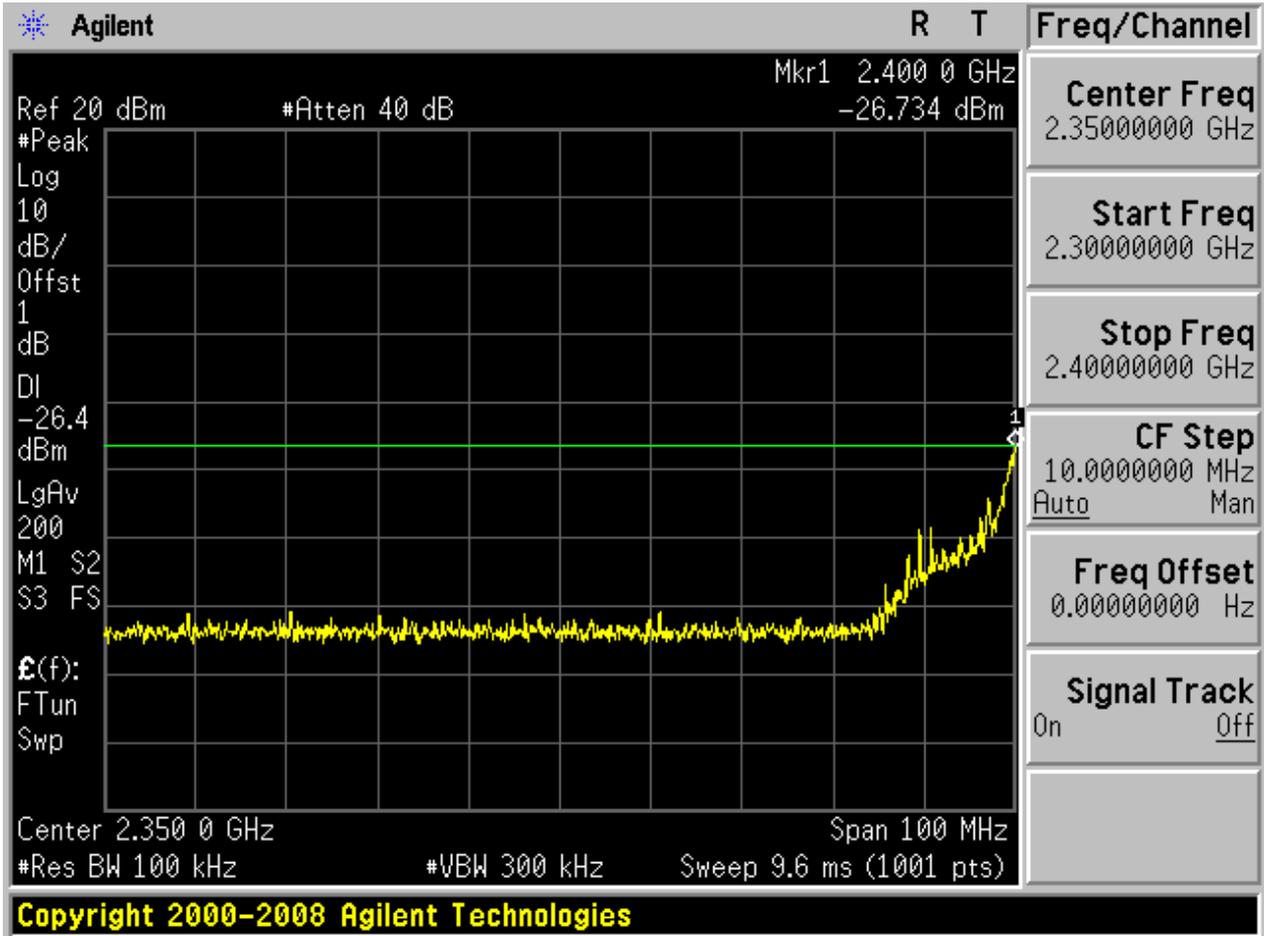


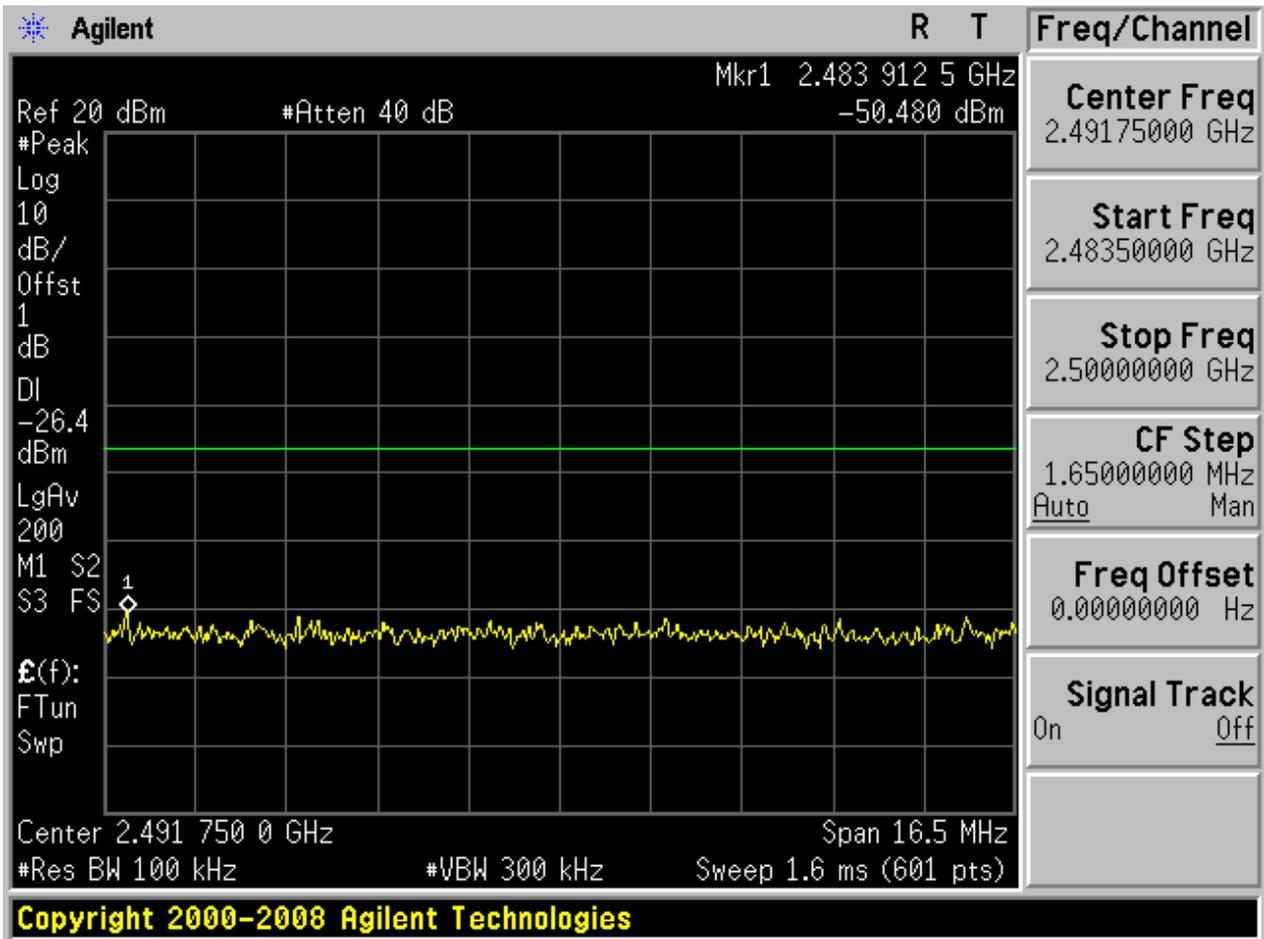
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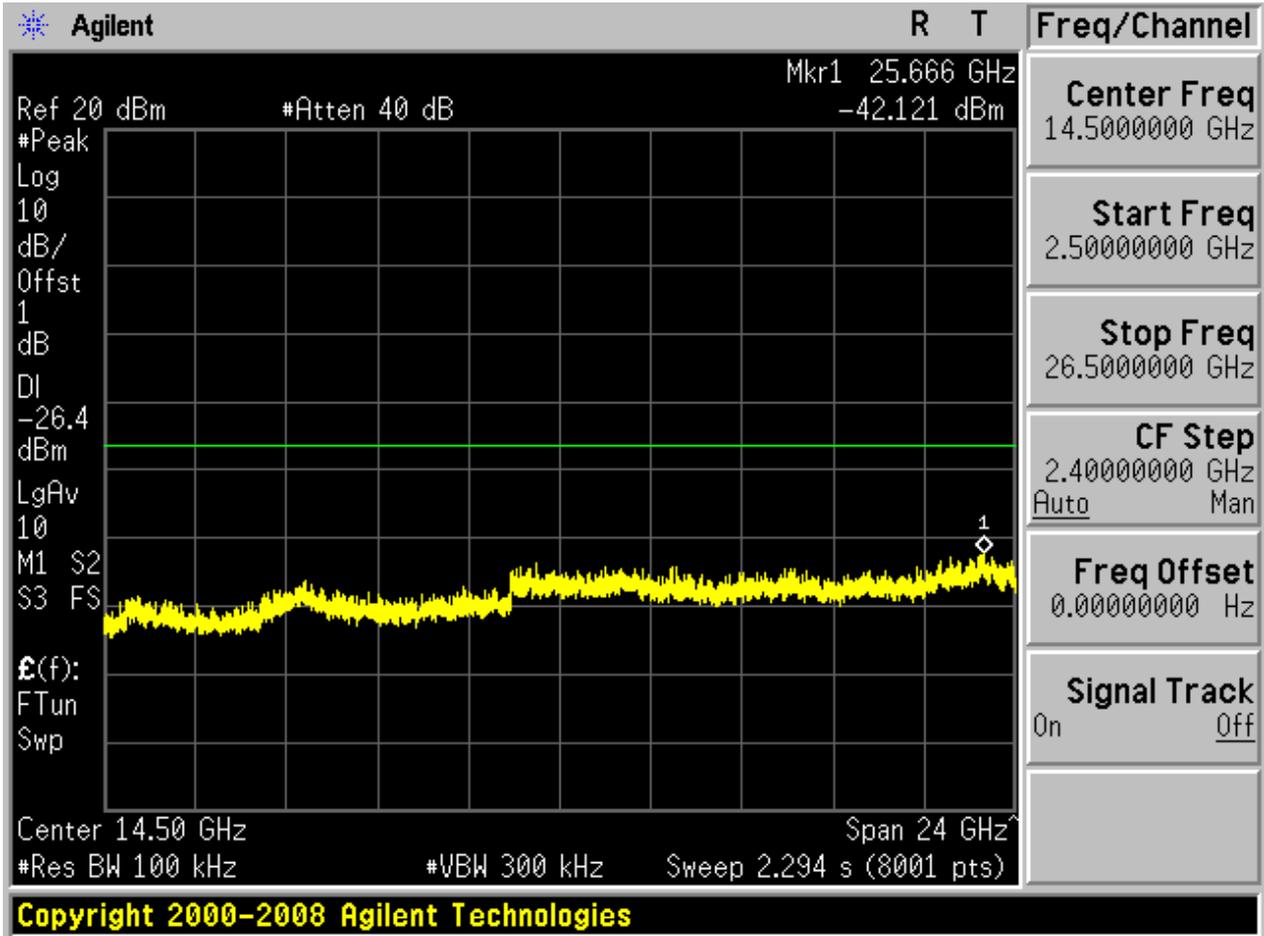








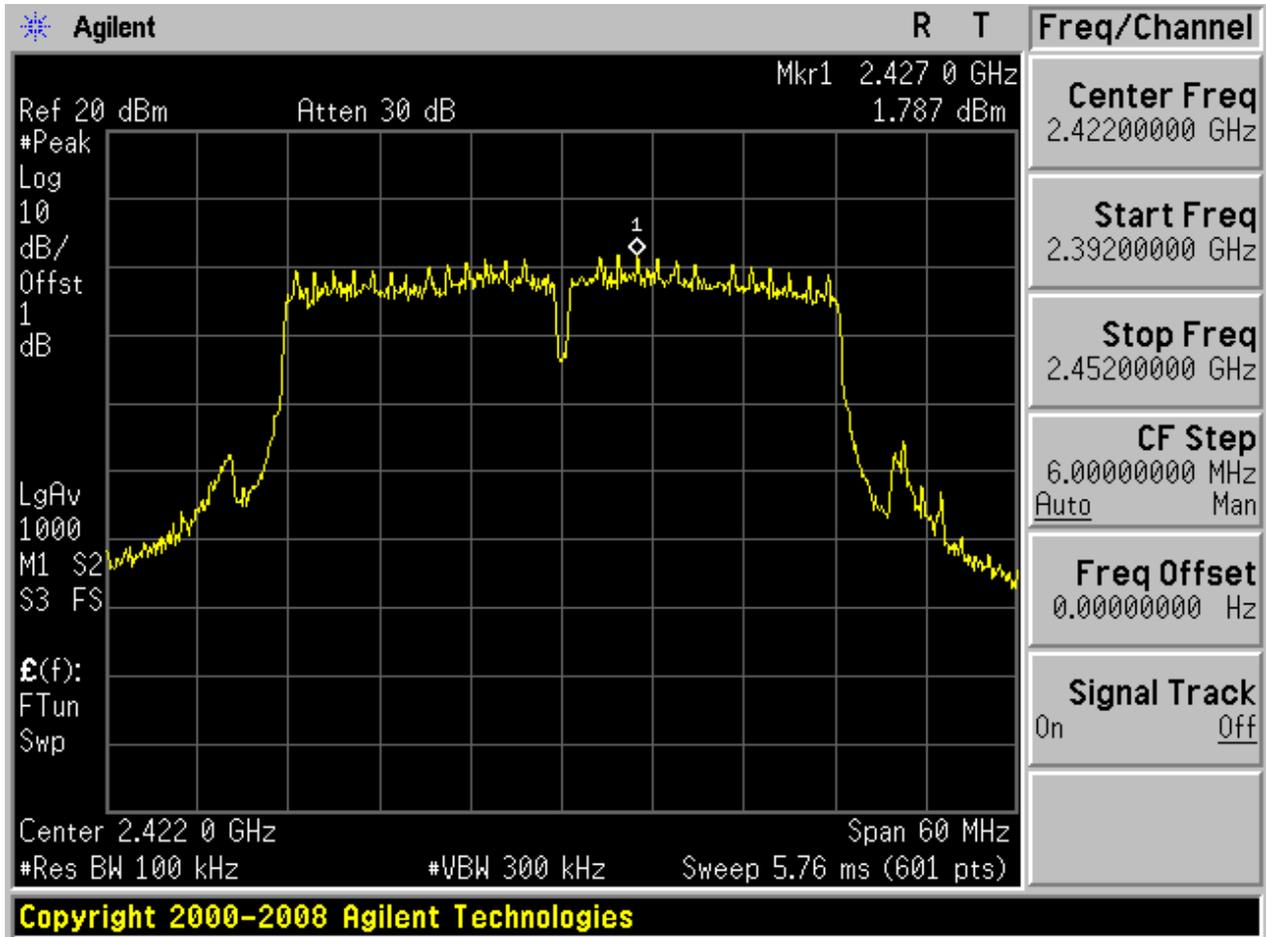






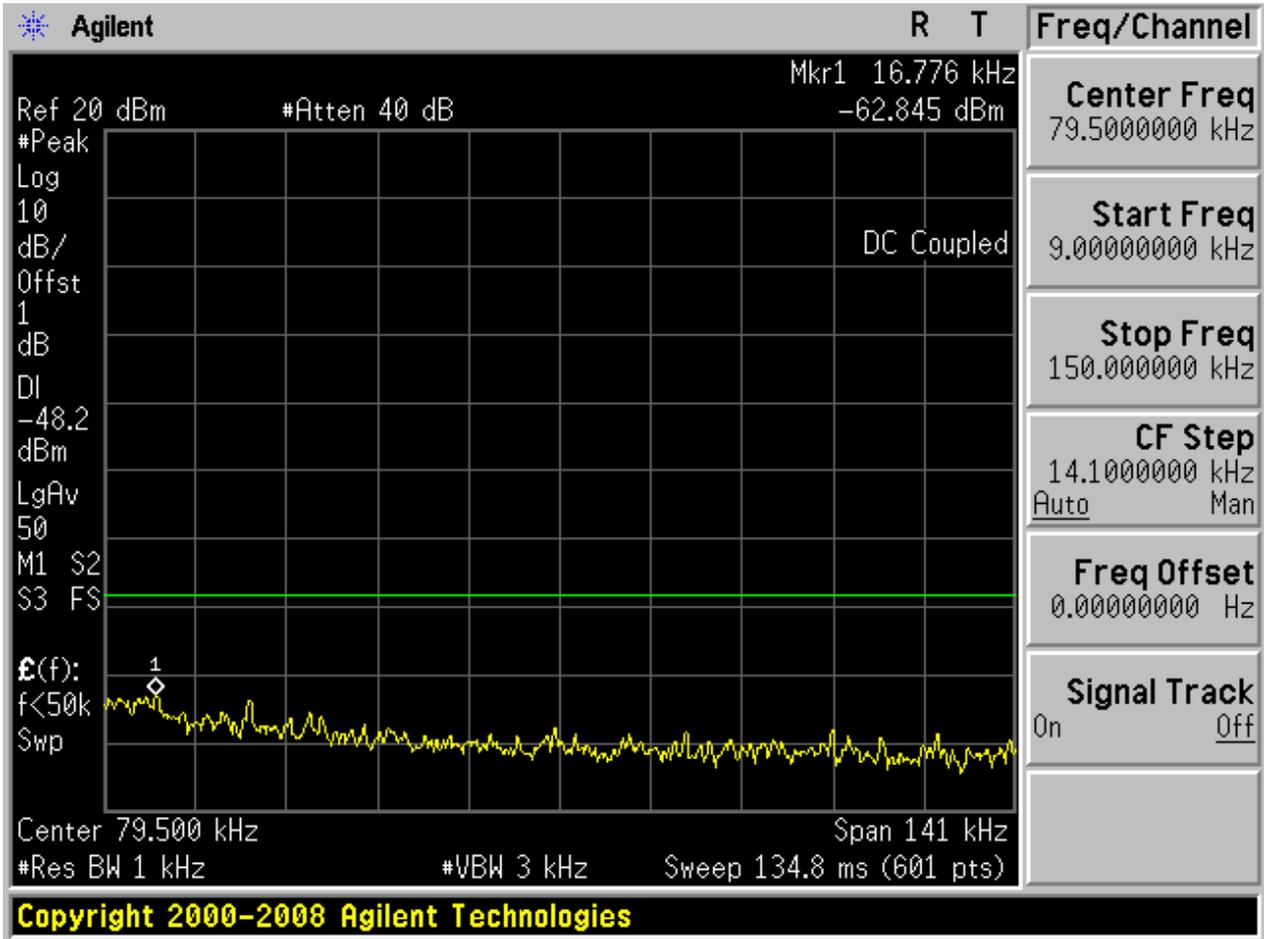
2.32 11N40m\_L@Ant 2

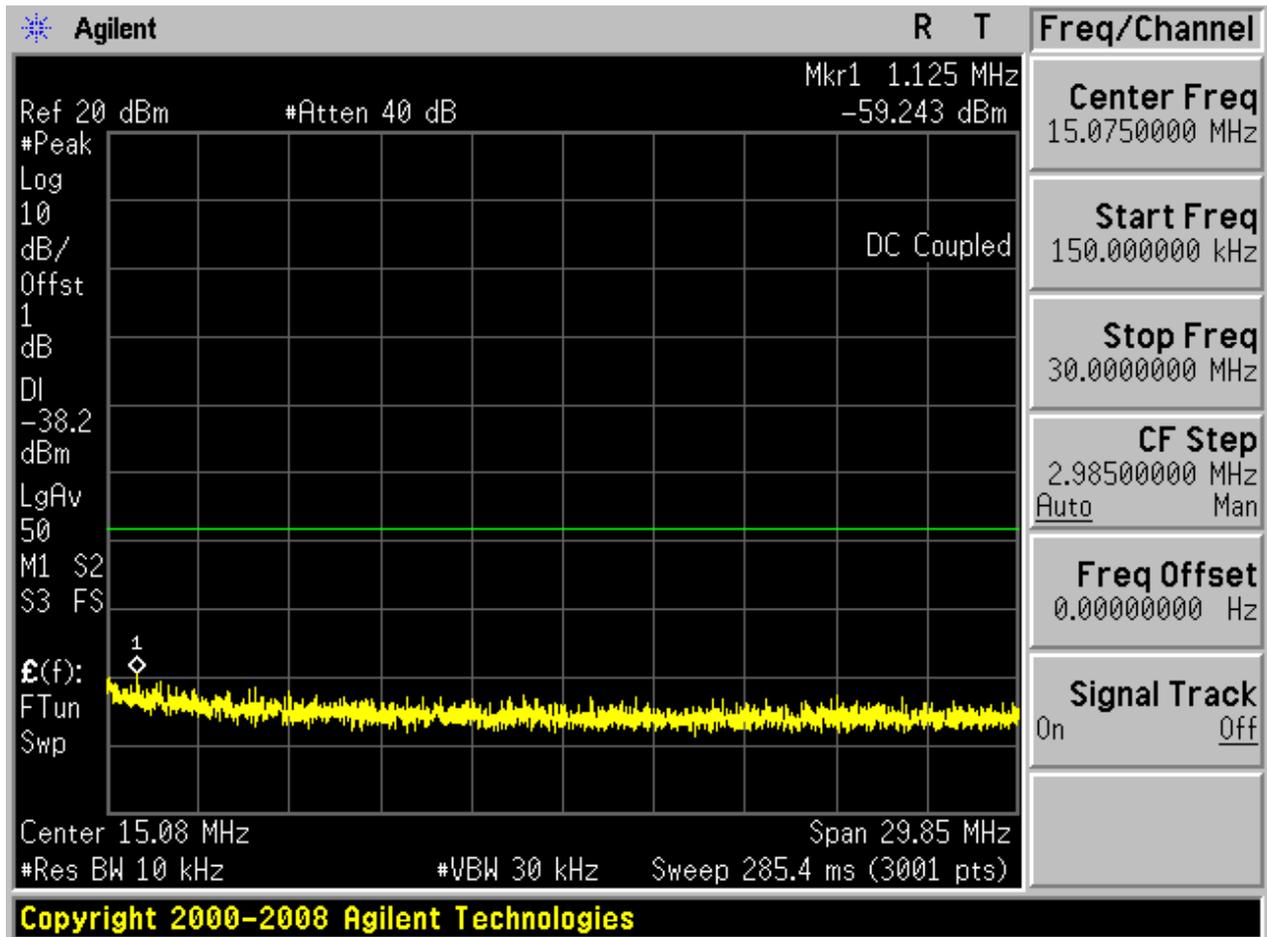
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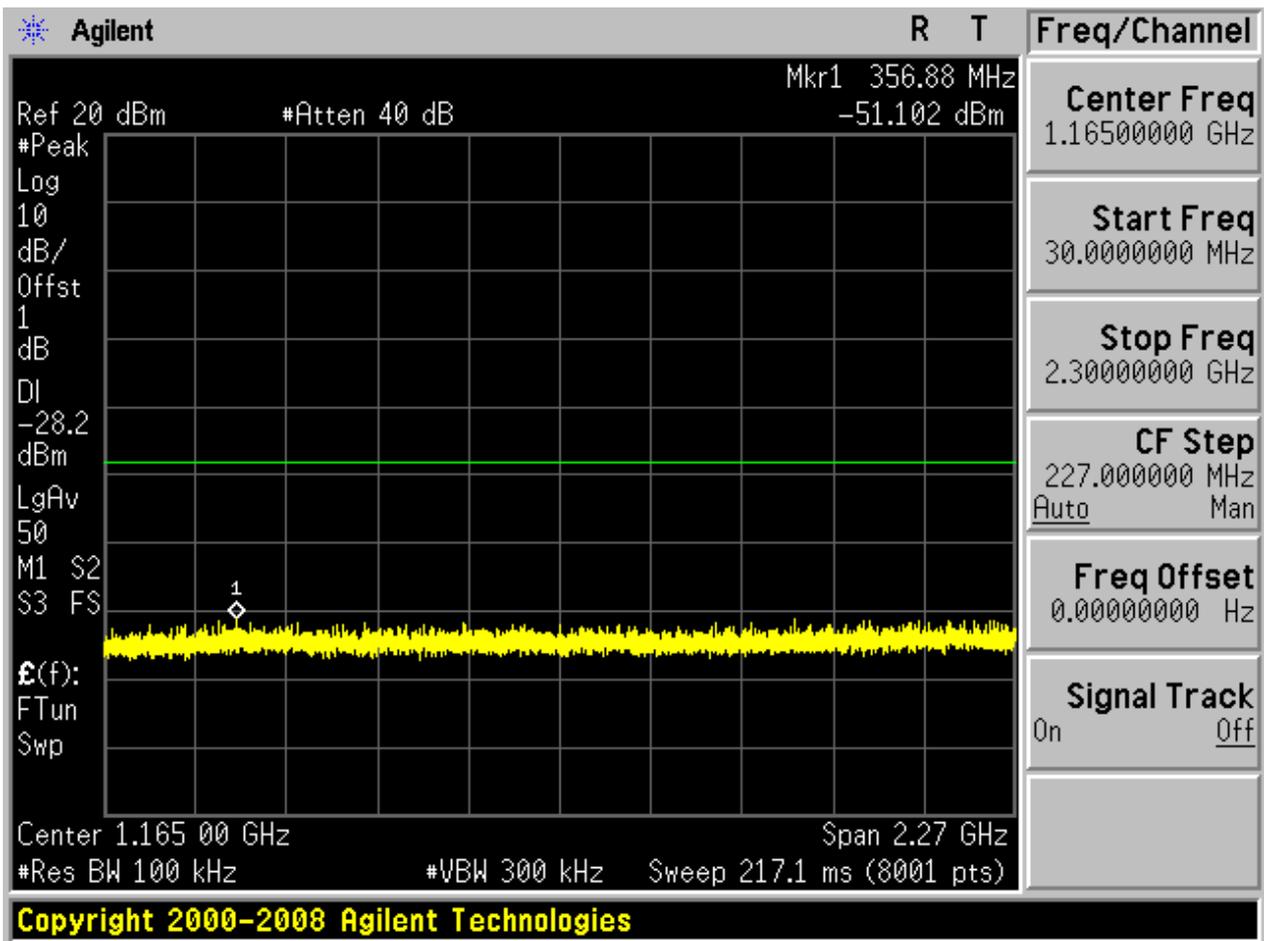


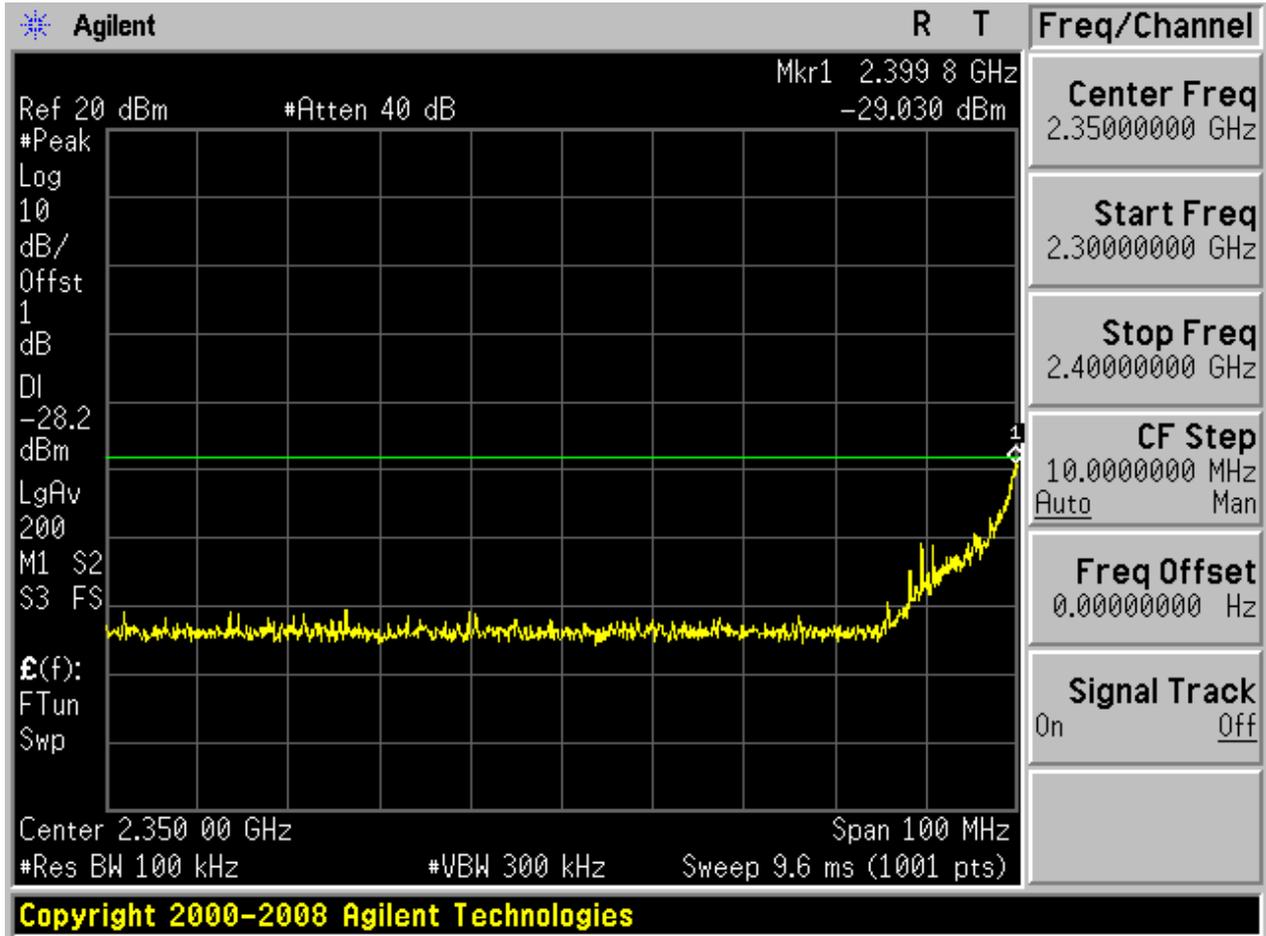


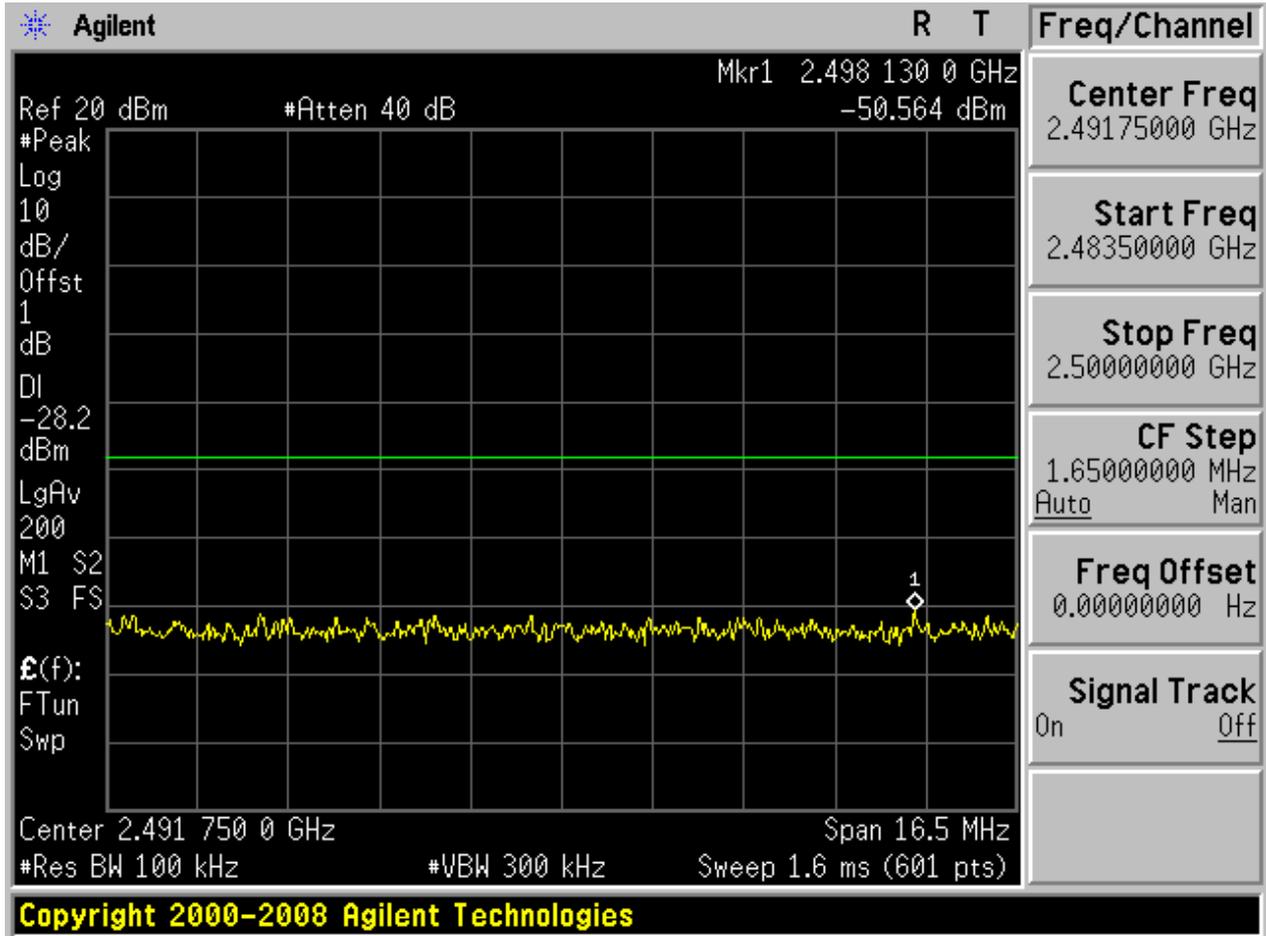
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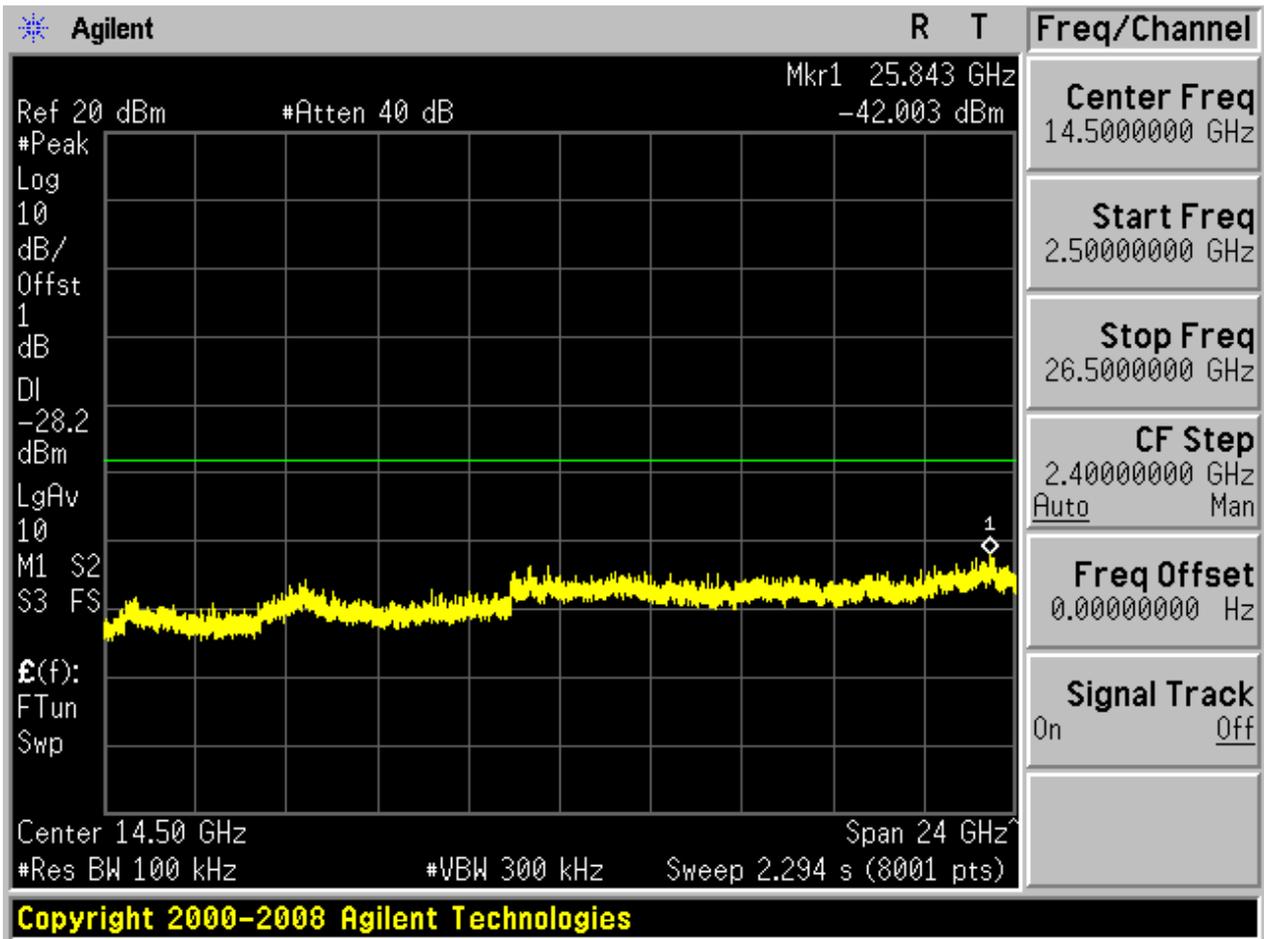








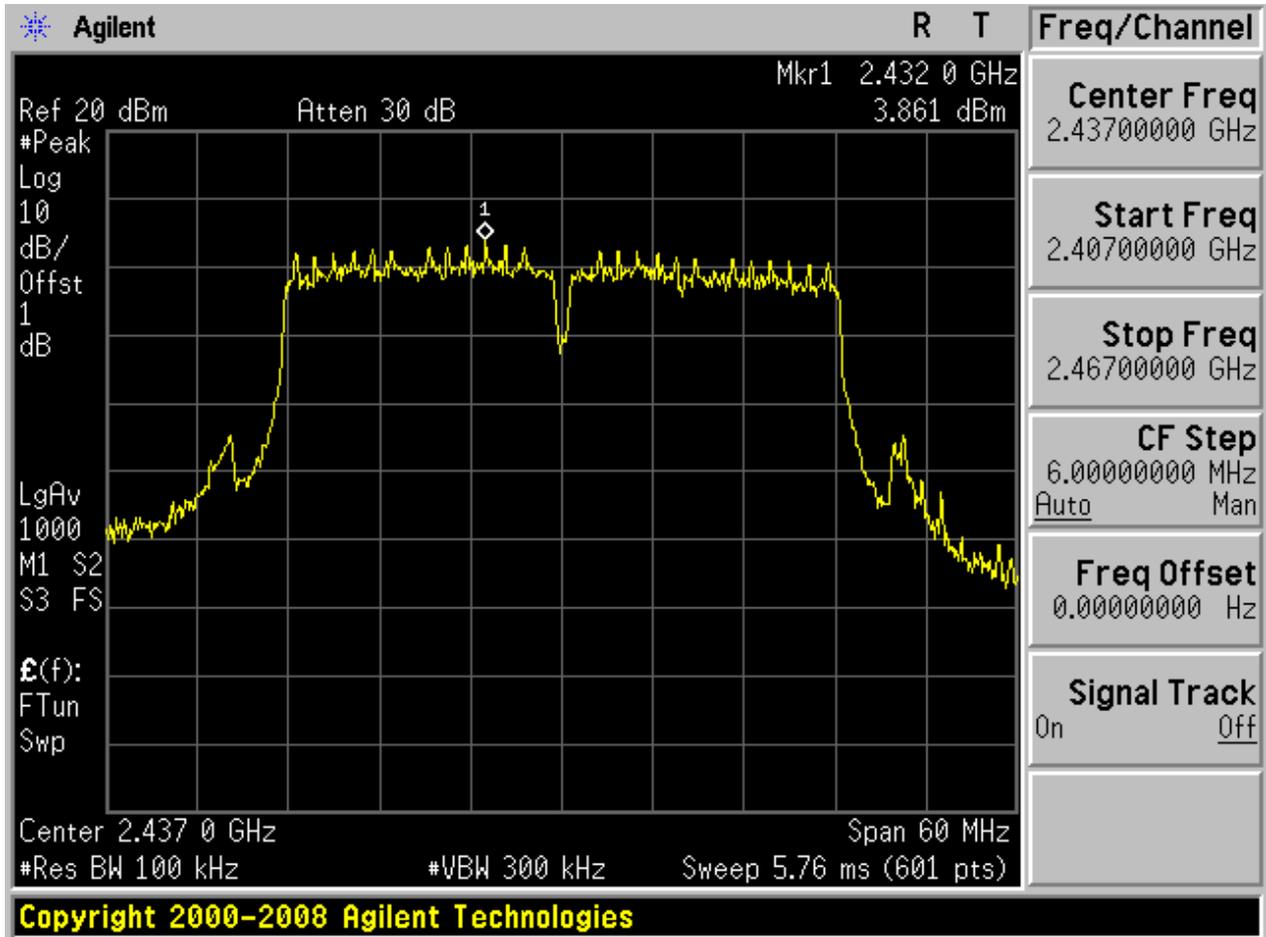






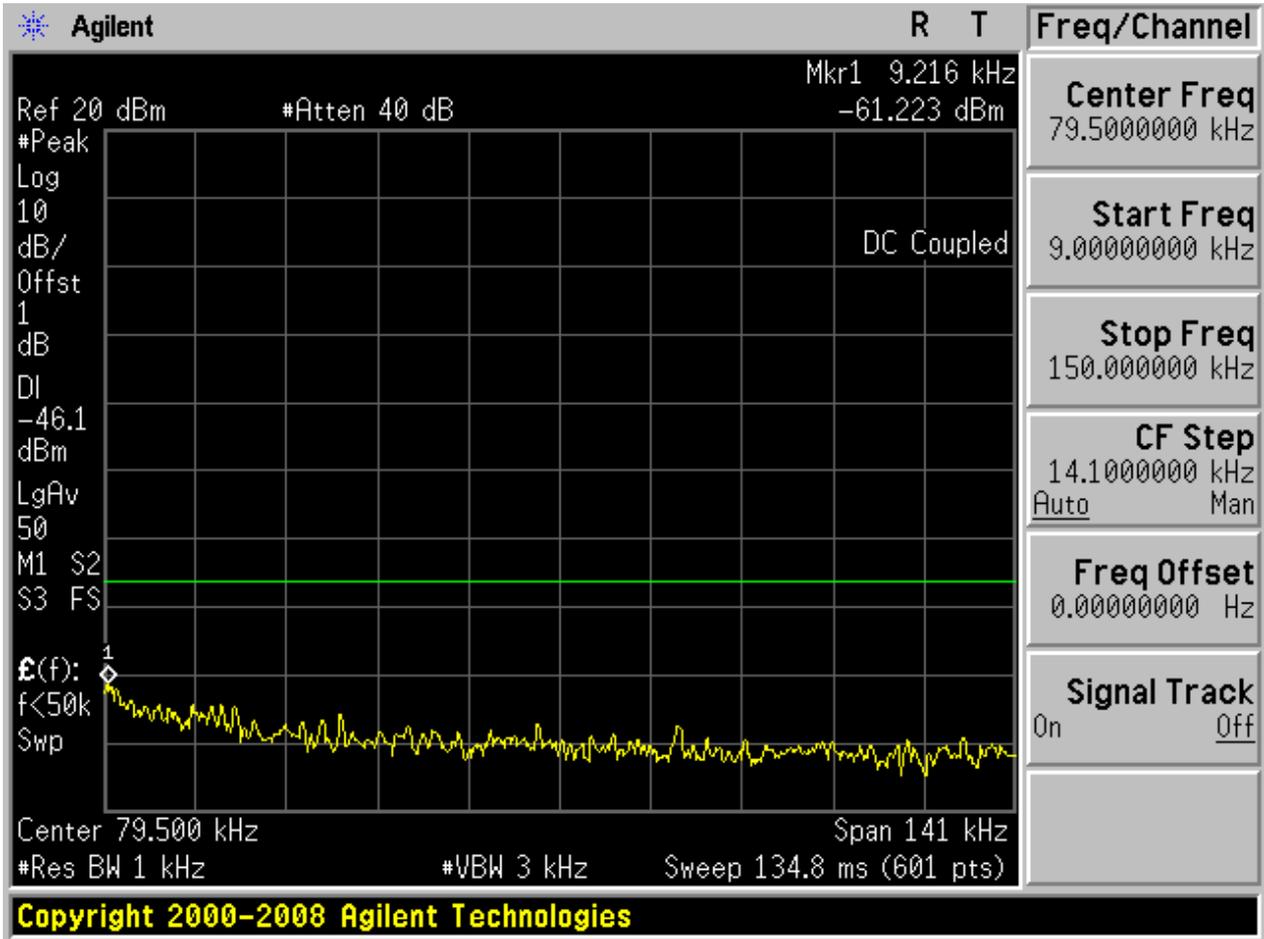
### 2.33 11N40m\_M@Ant 1

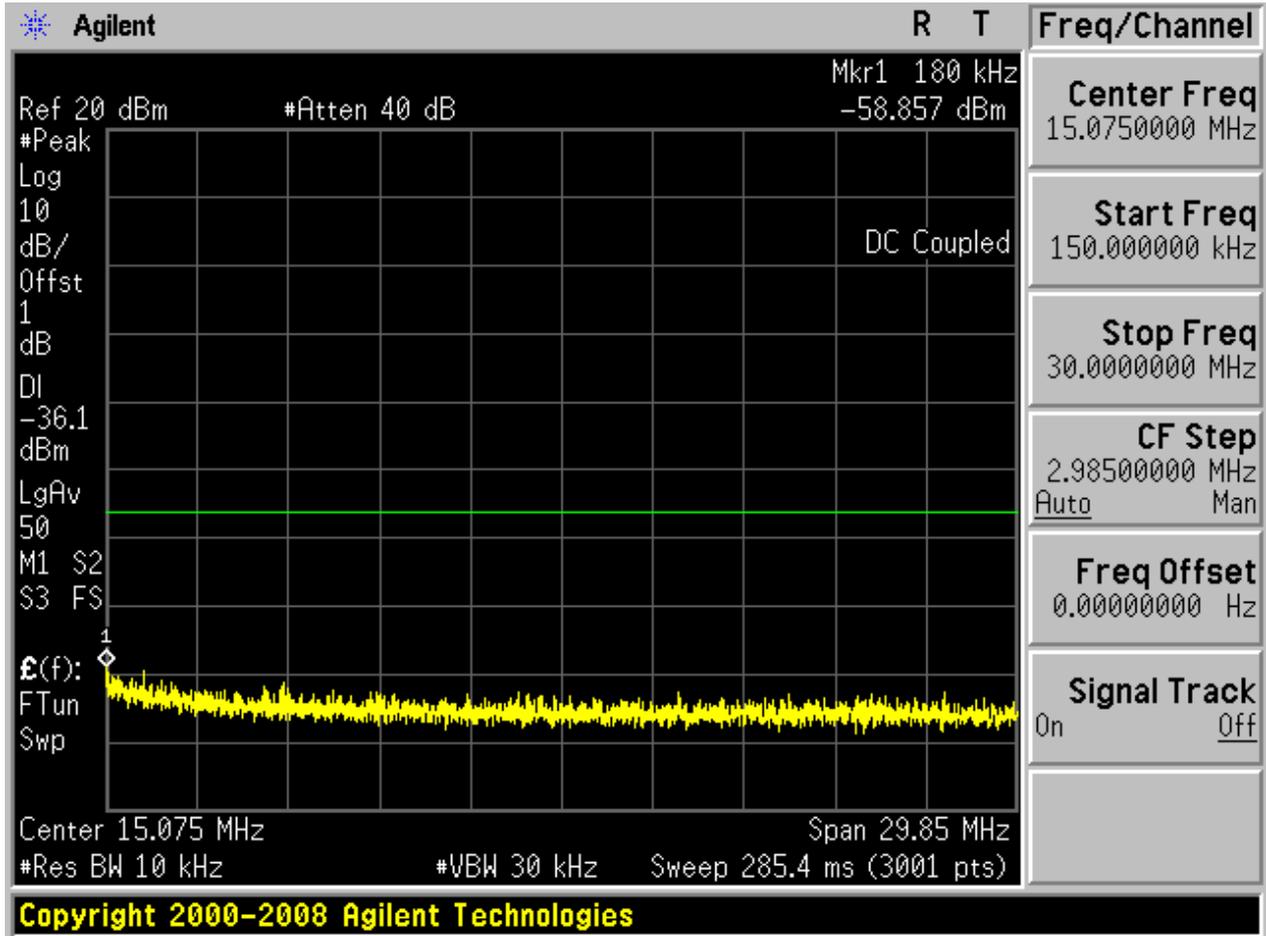
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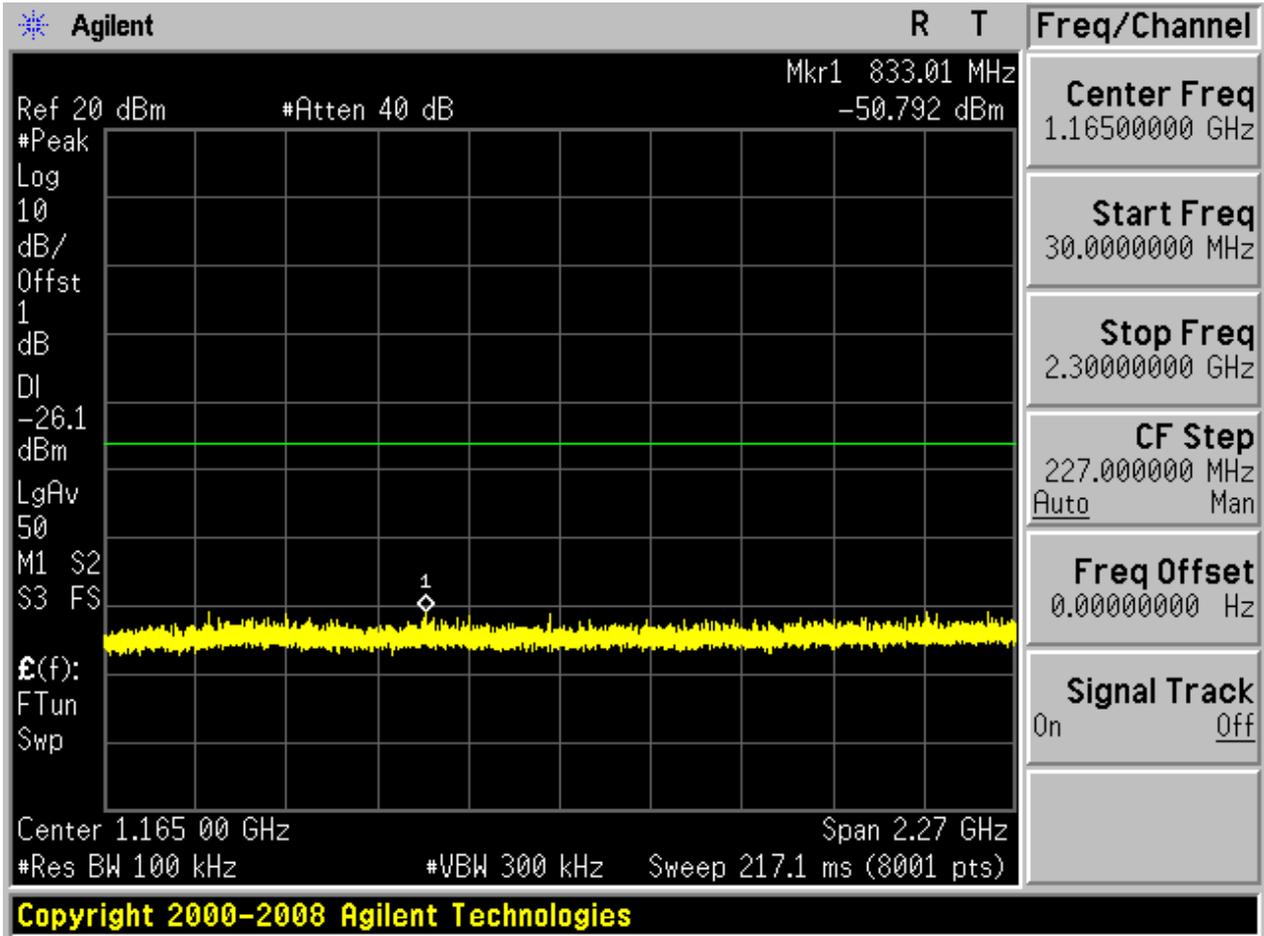


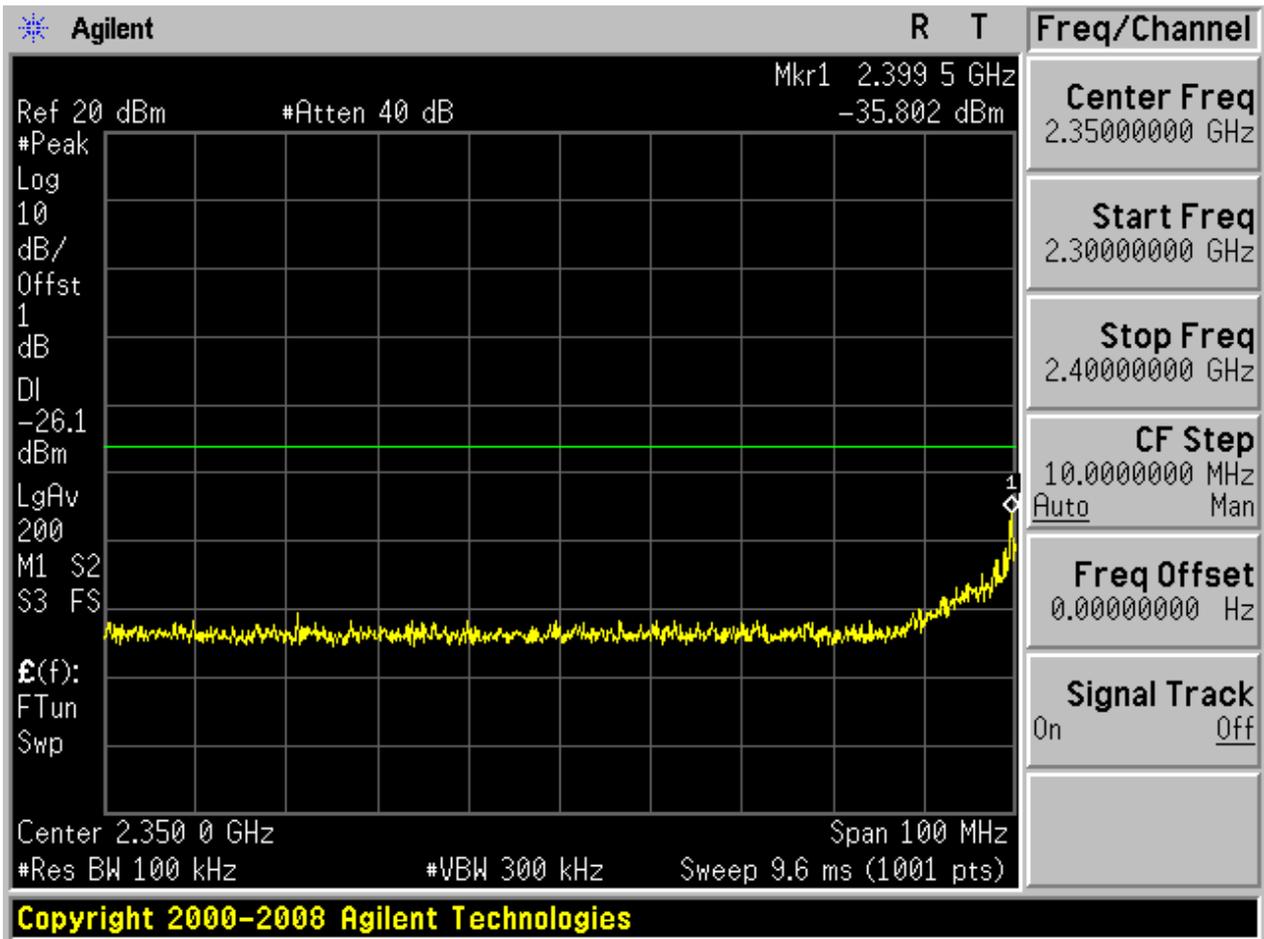


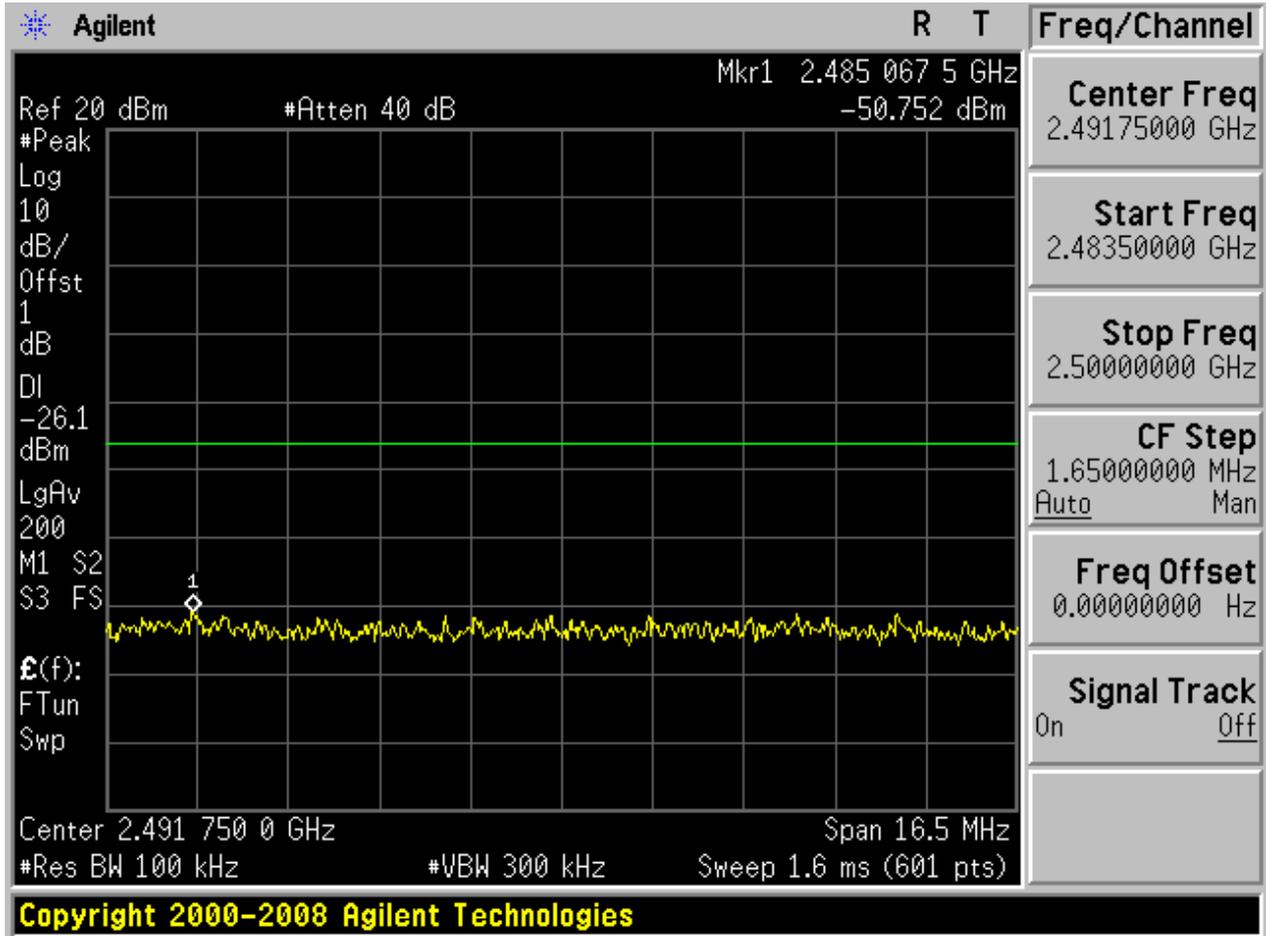
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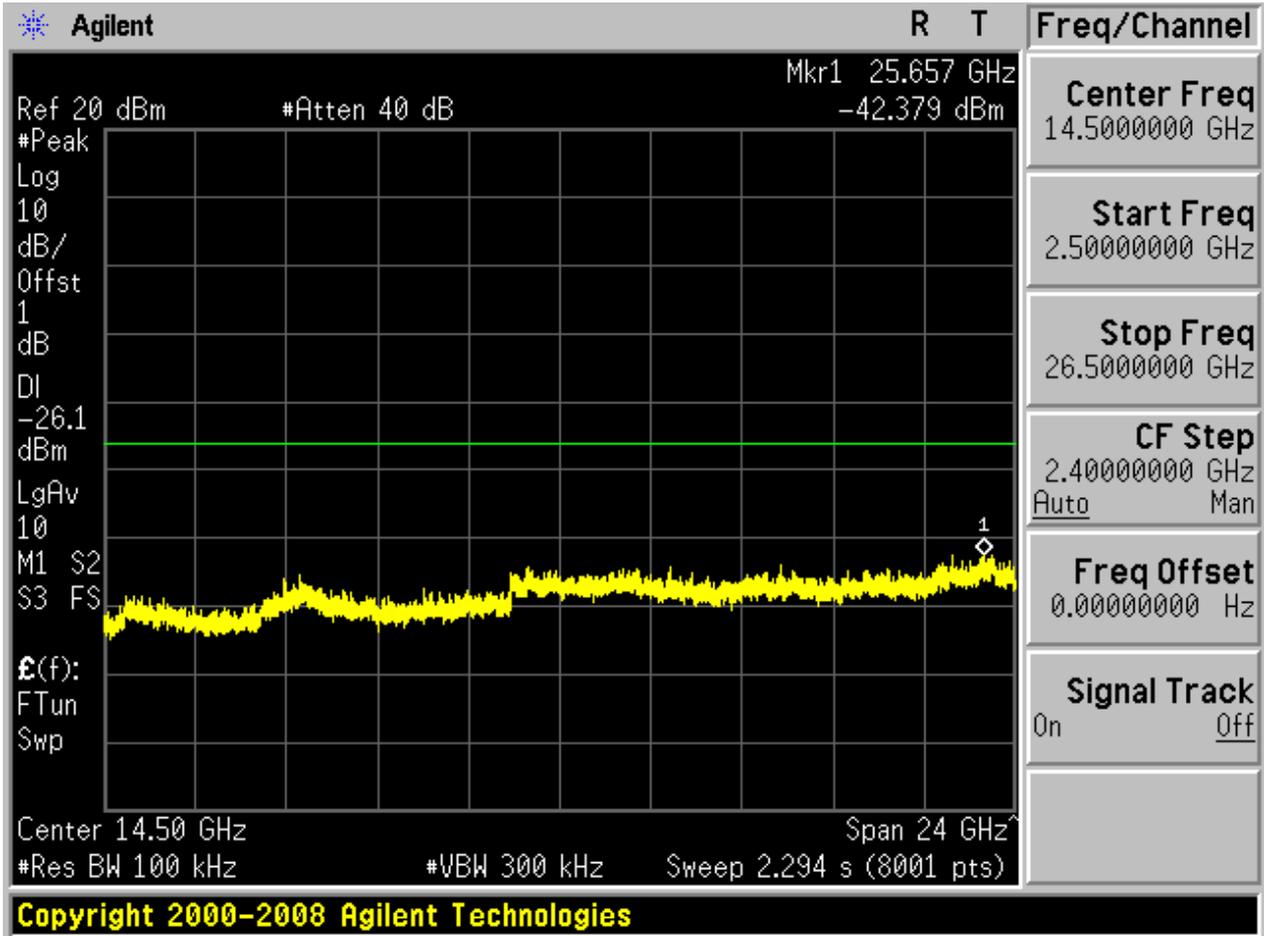








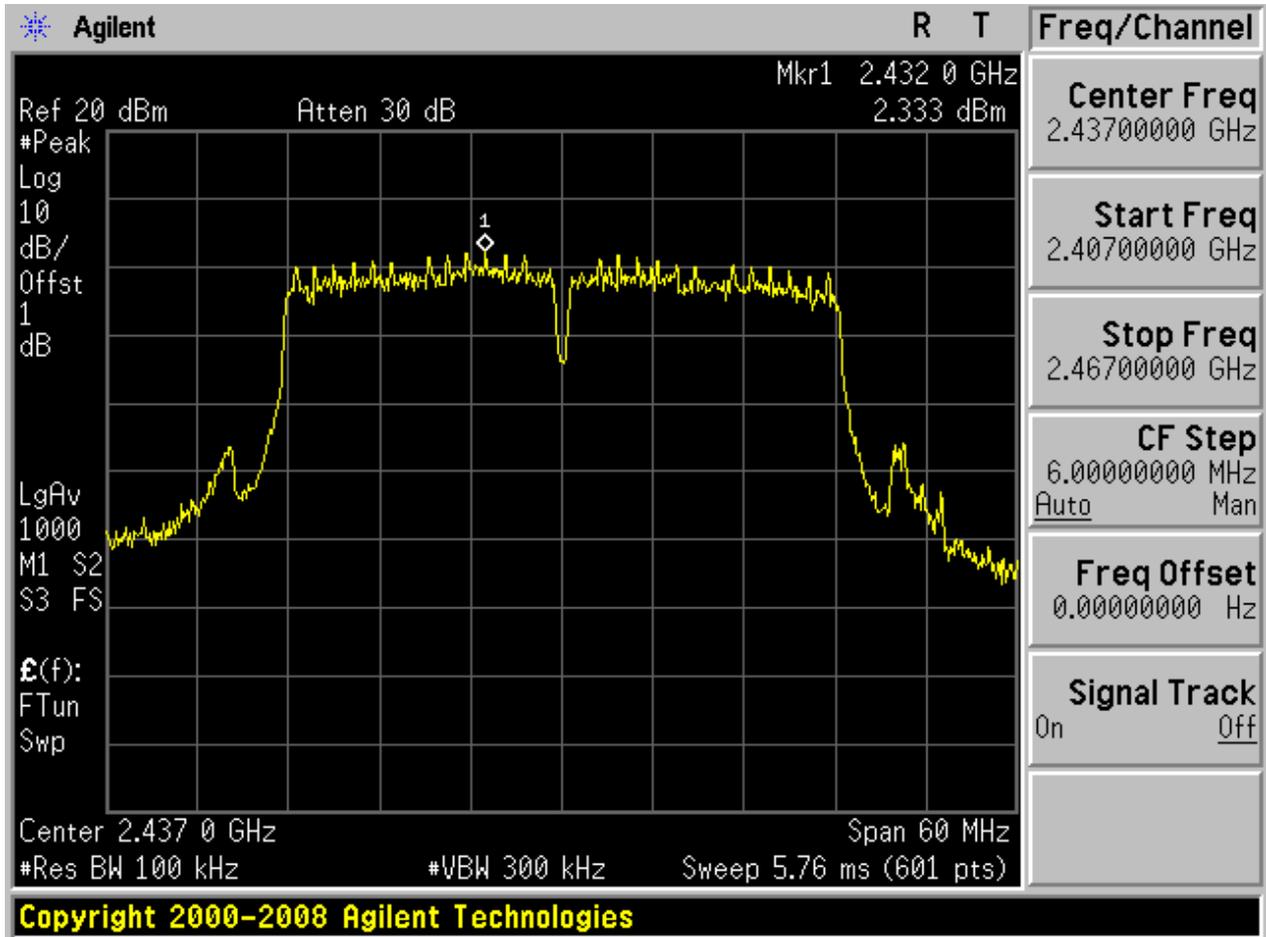






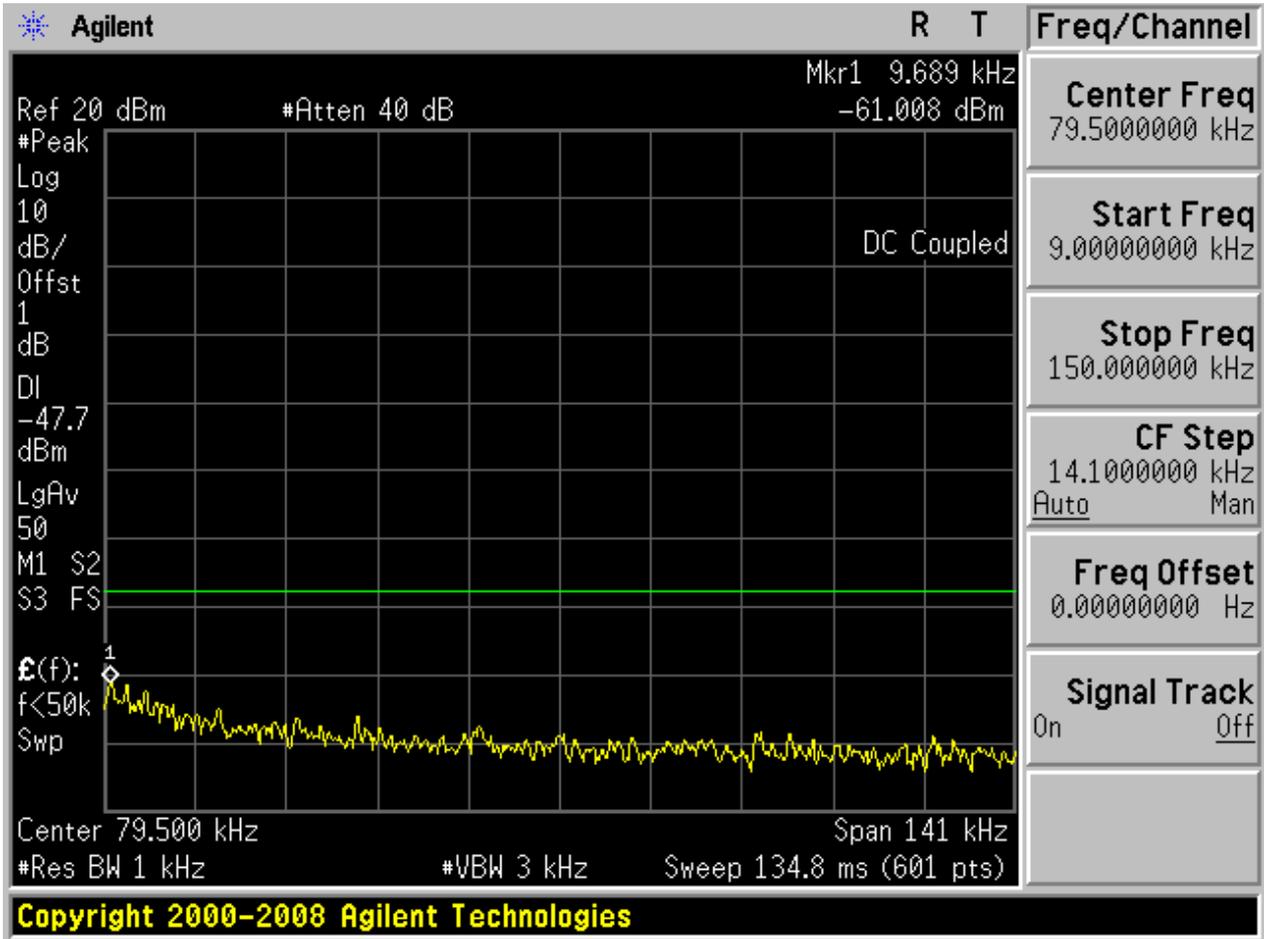
2.34 11N40m\_M@Ant 2

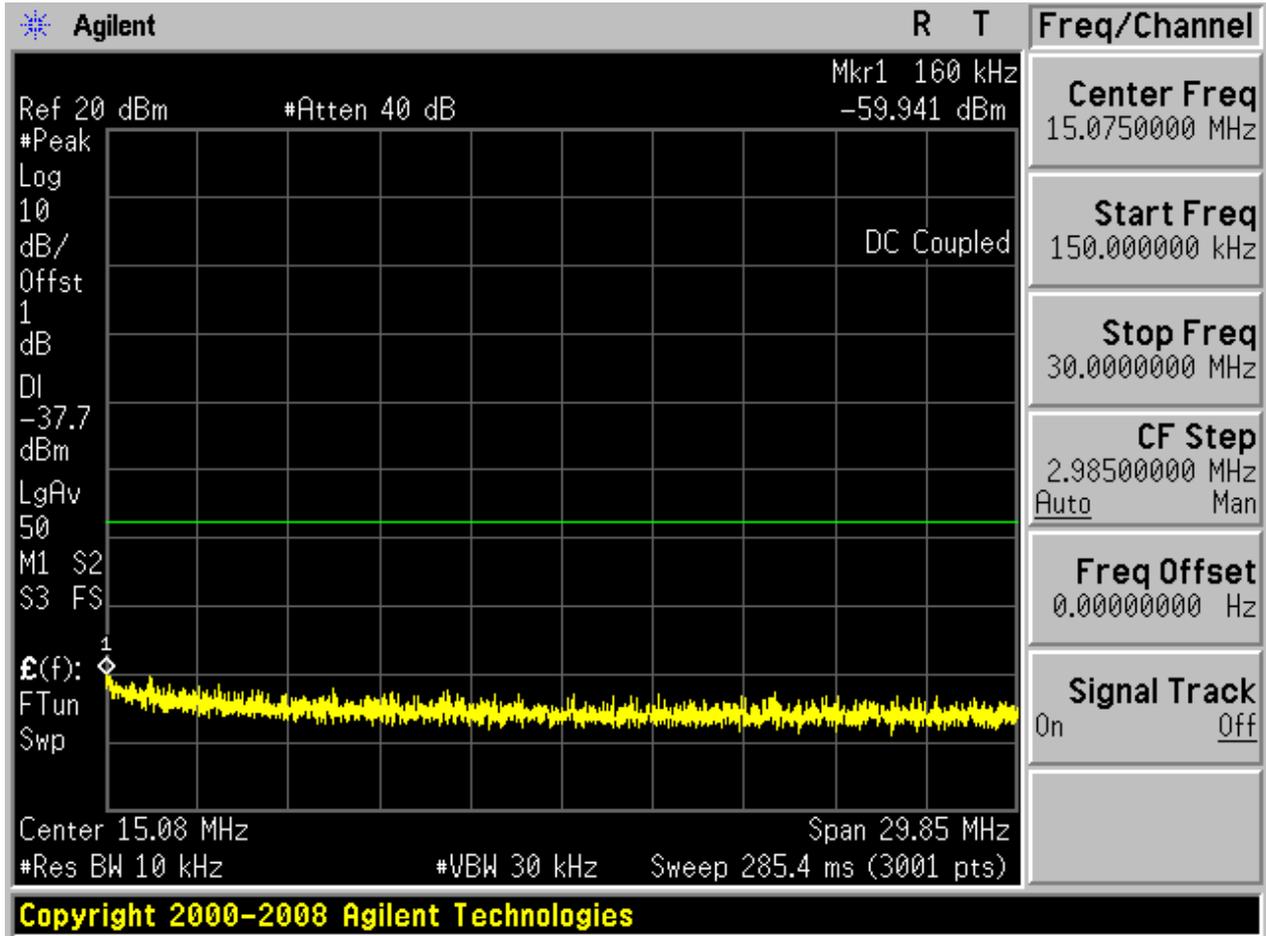
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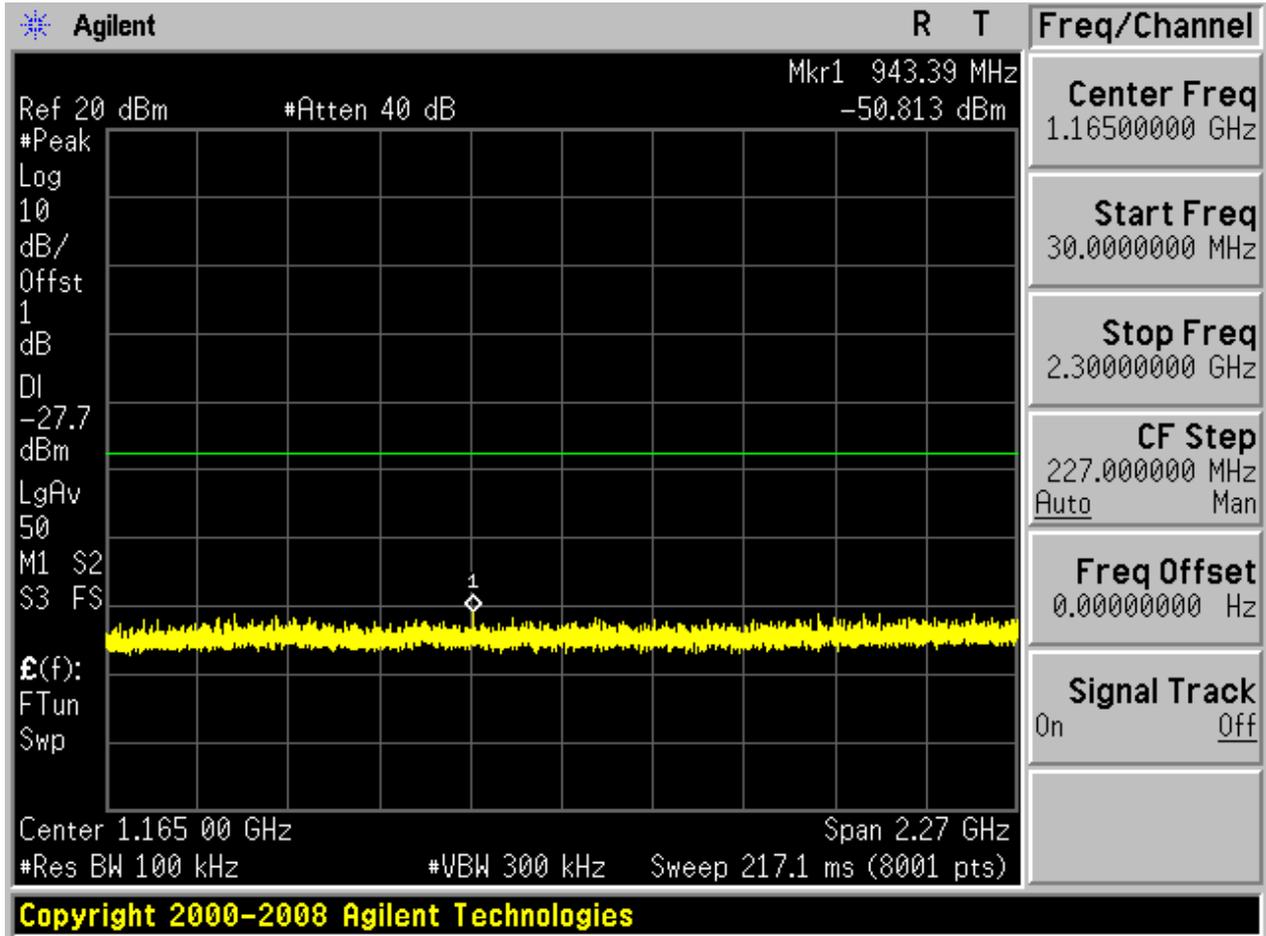


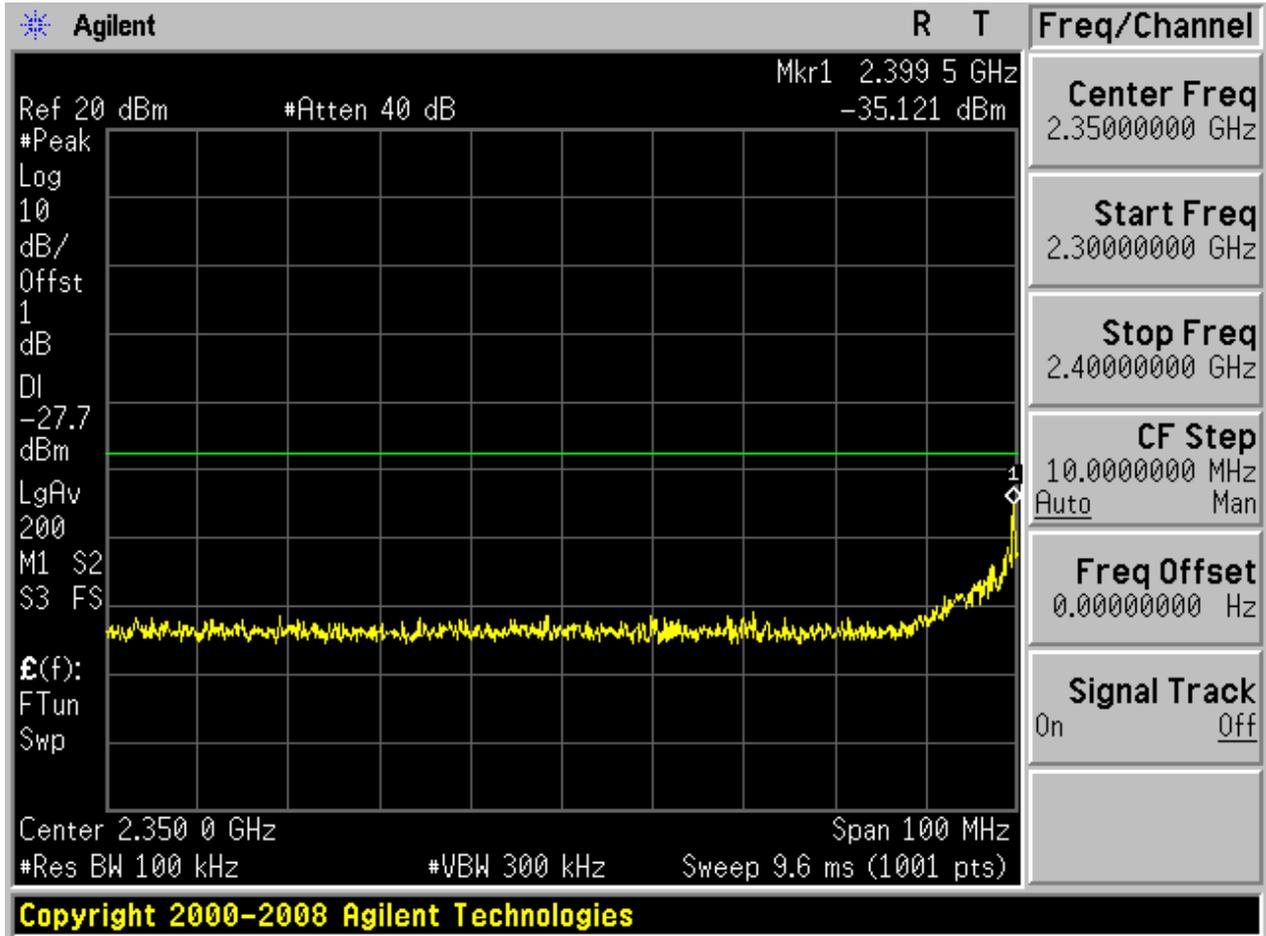


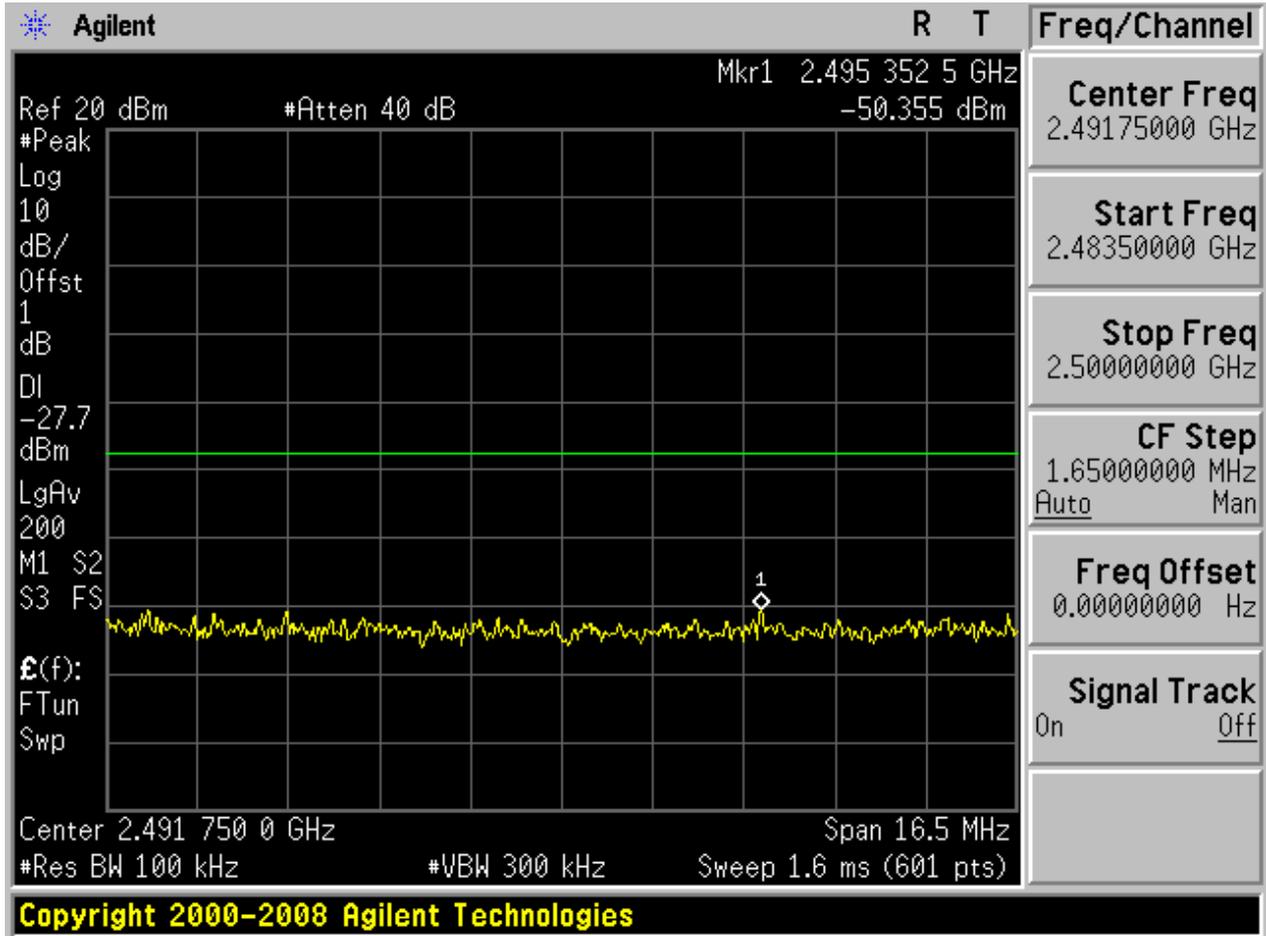
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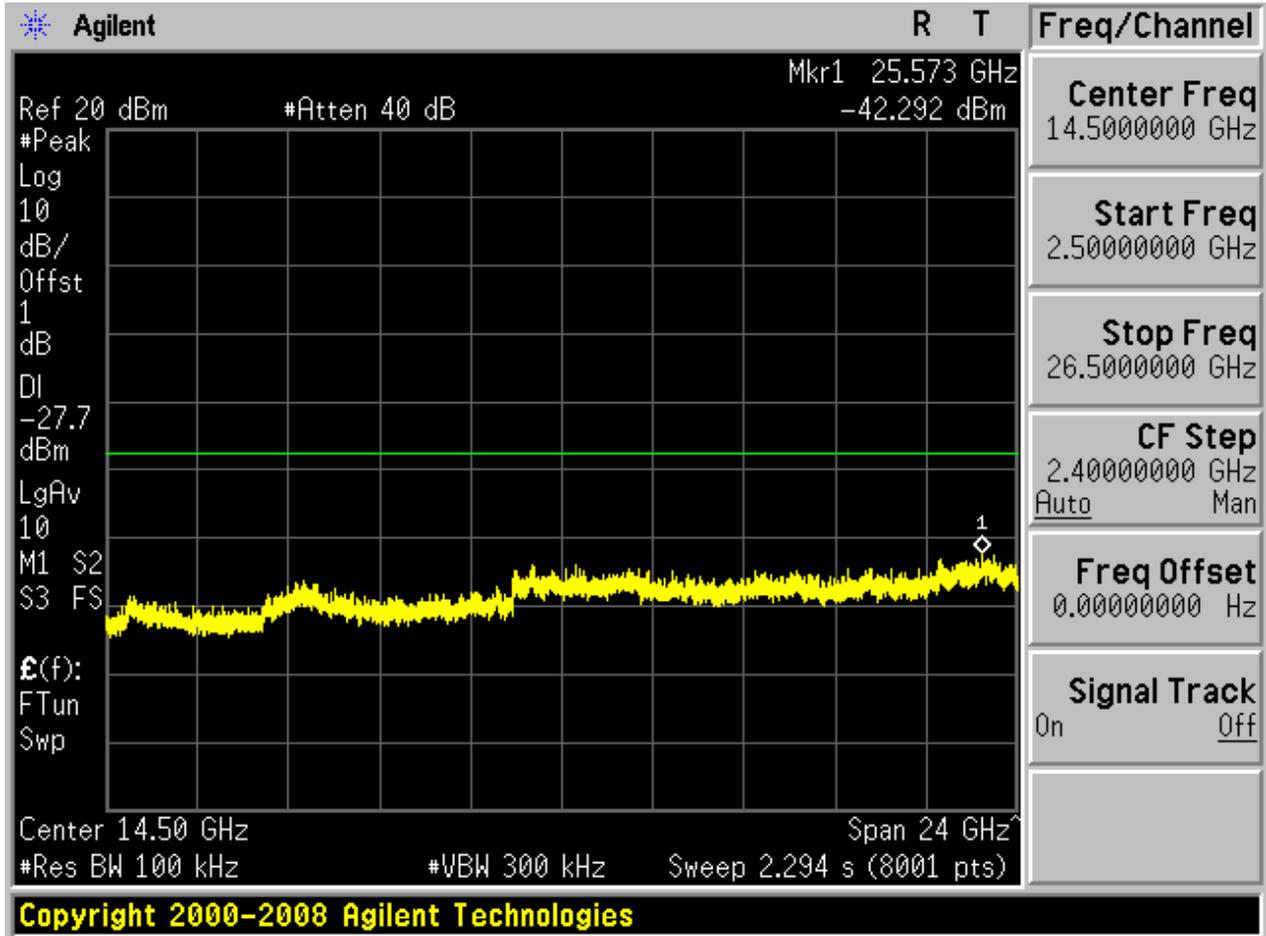








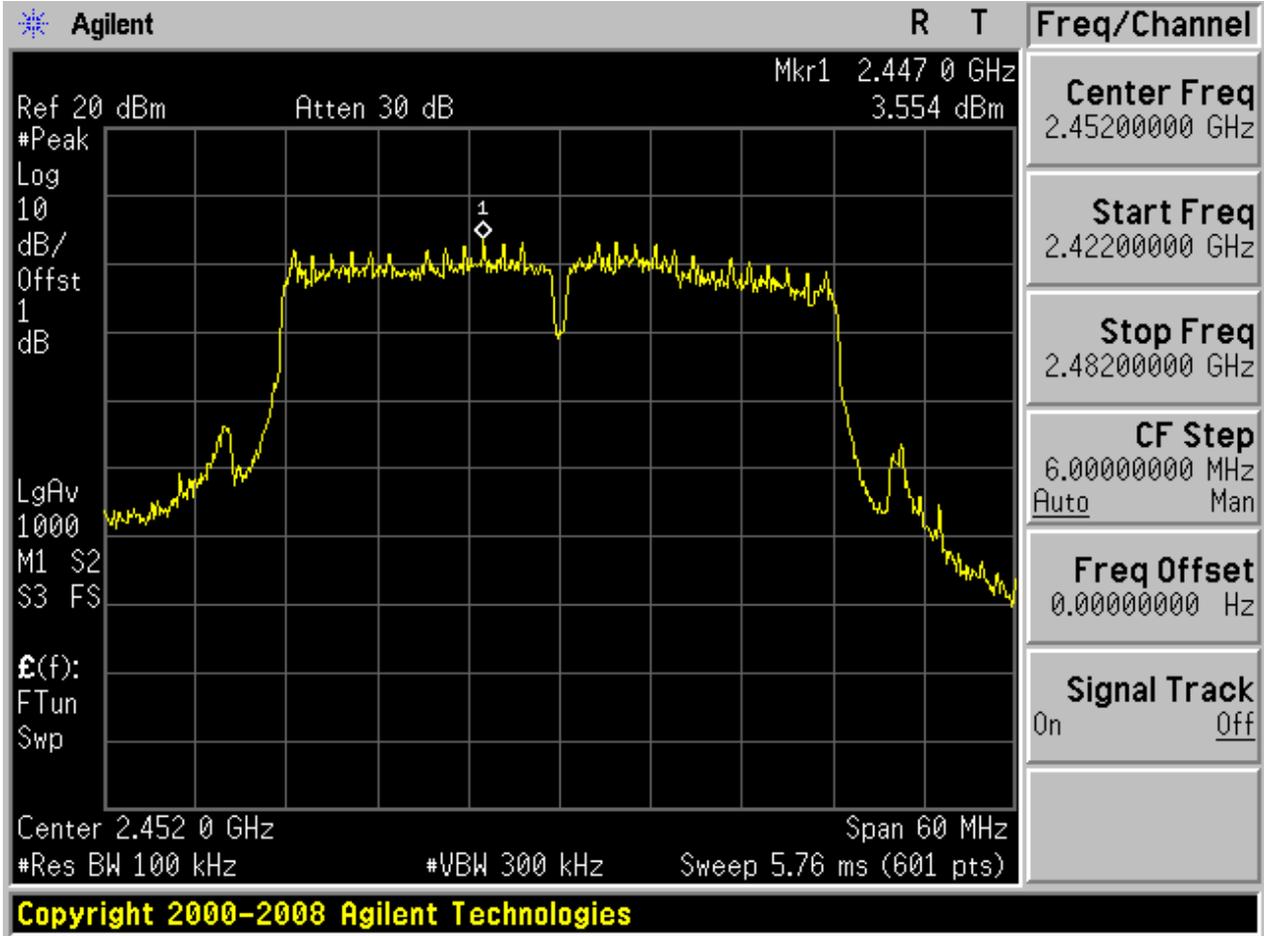






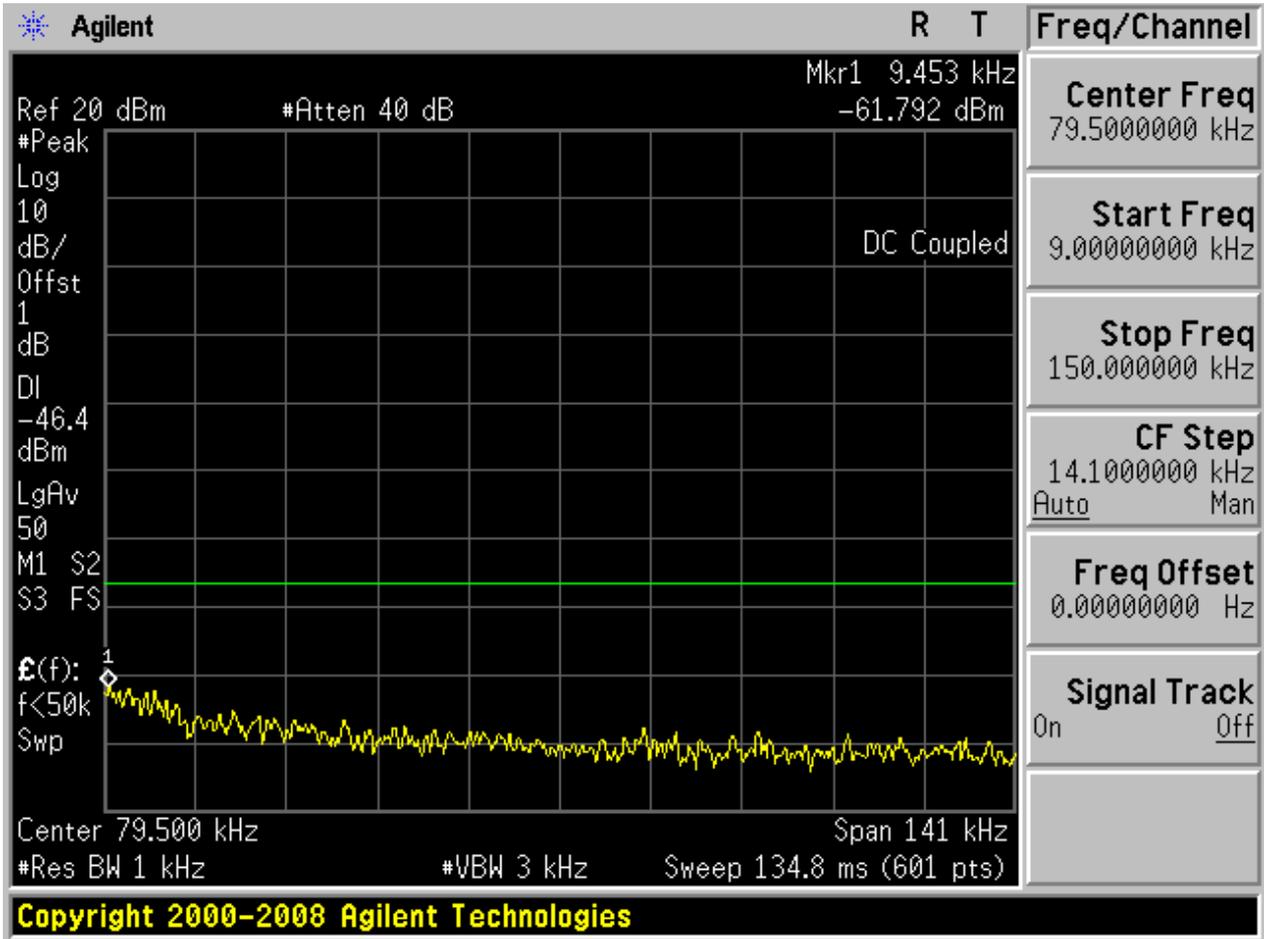
2.35 11N40m\_H@Ant 1

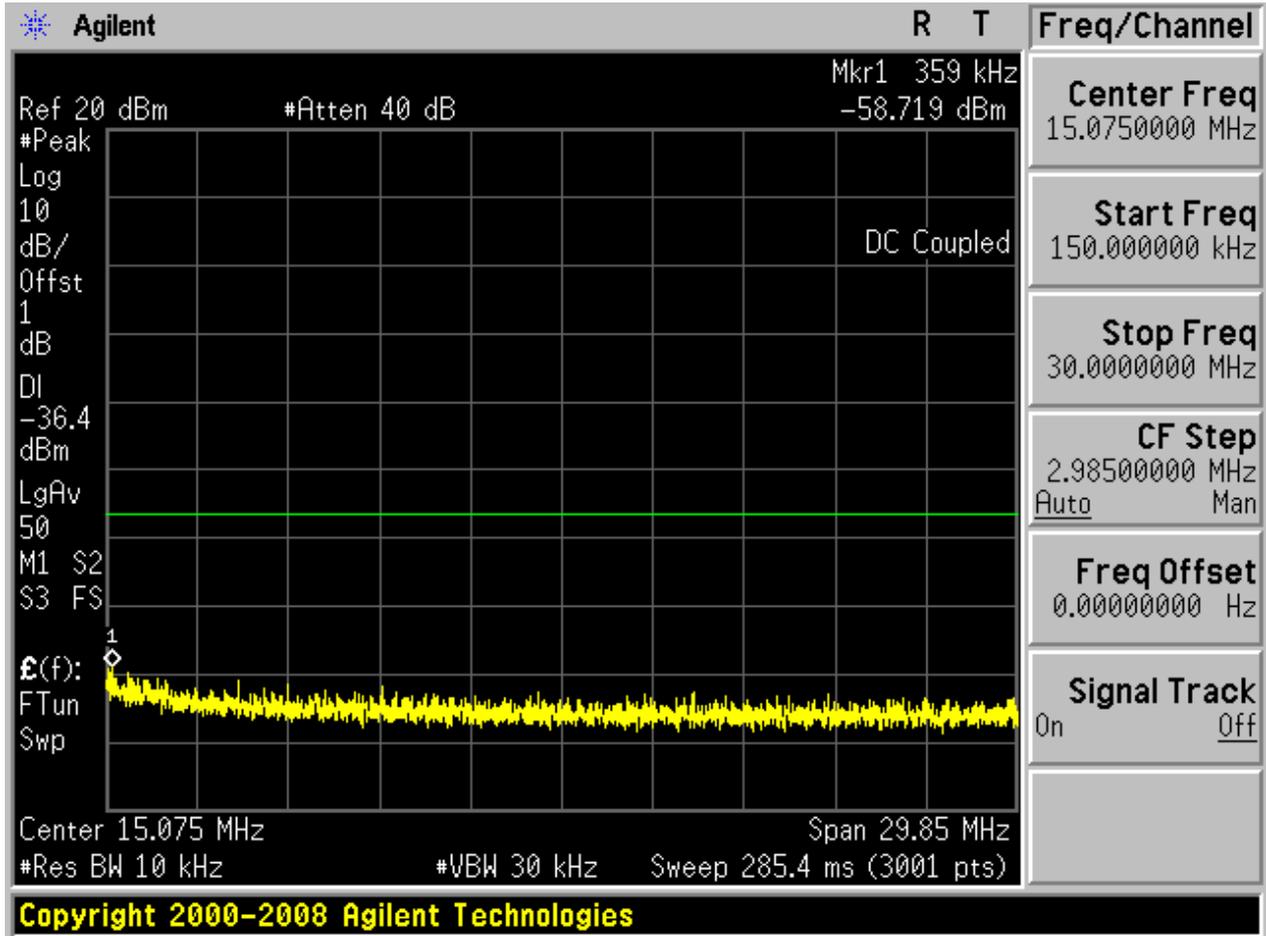
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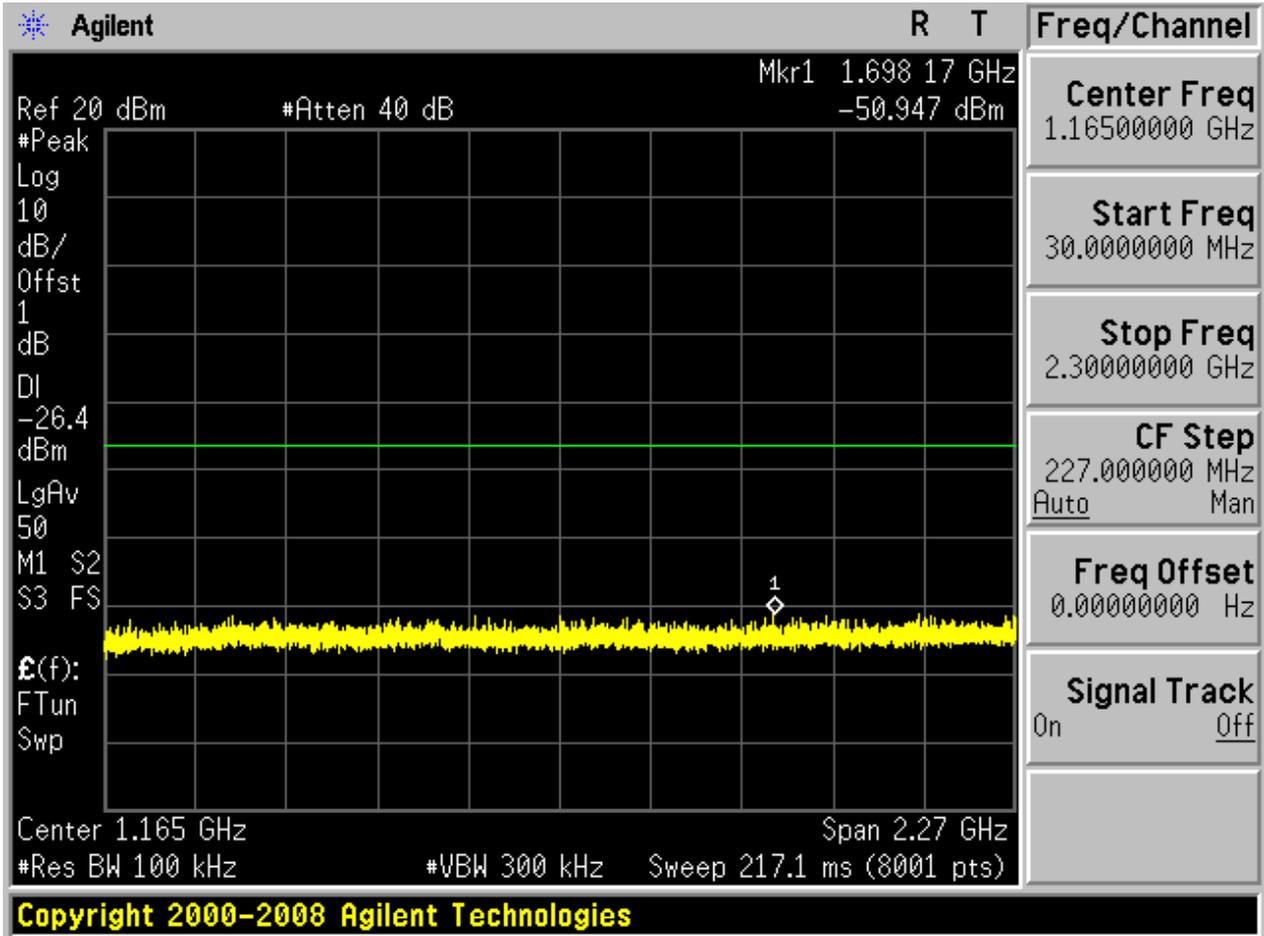


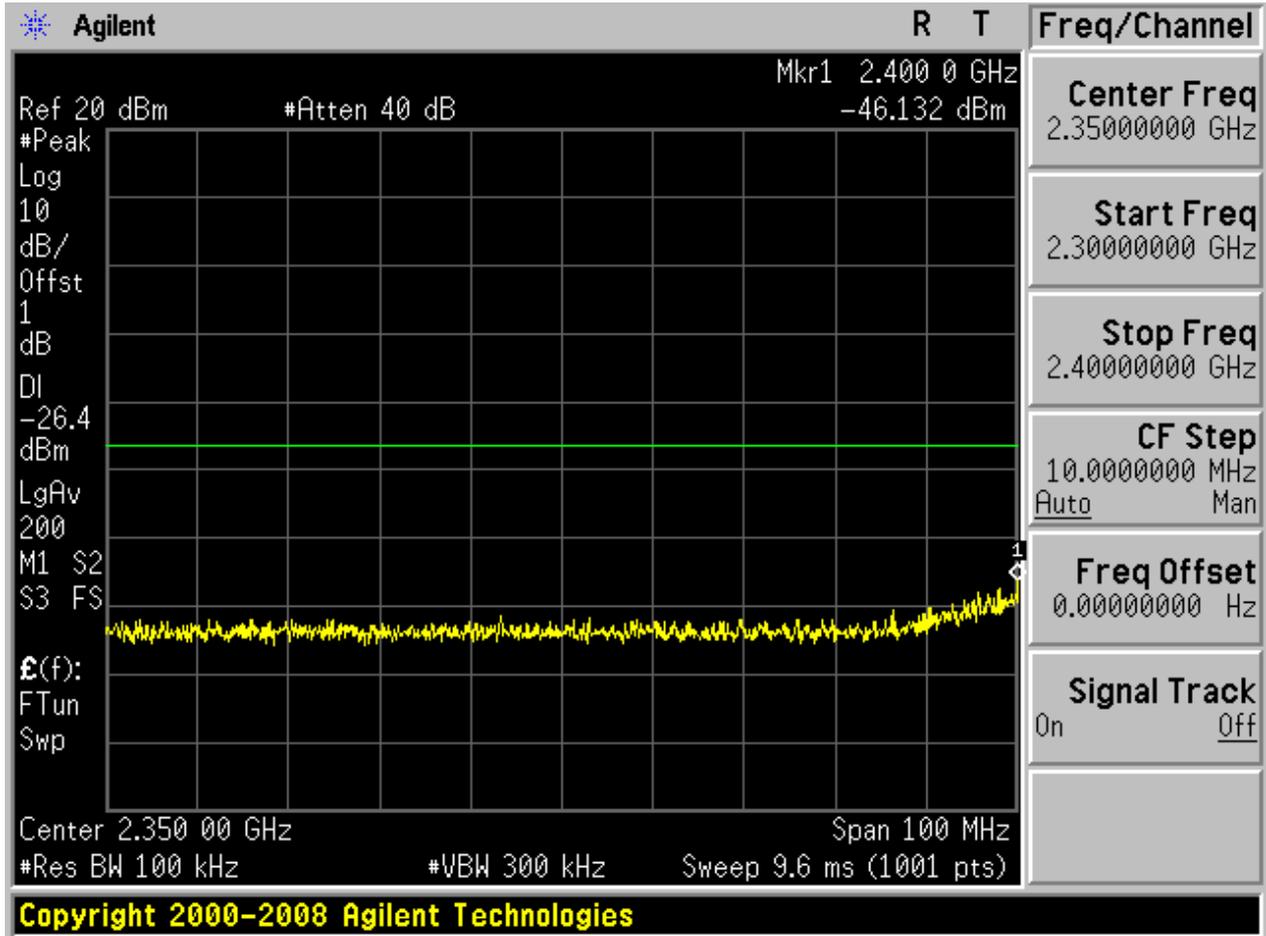


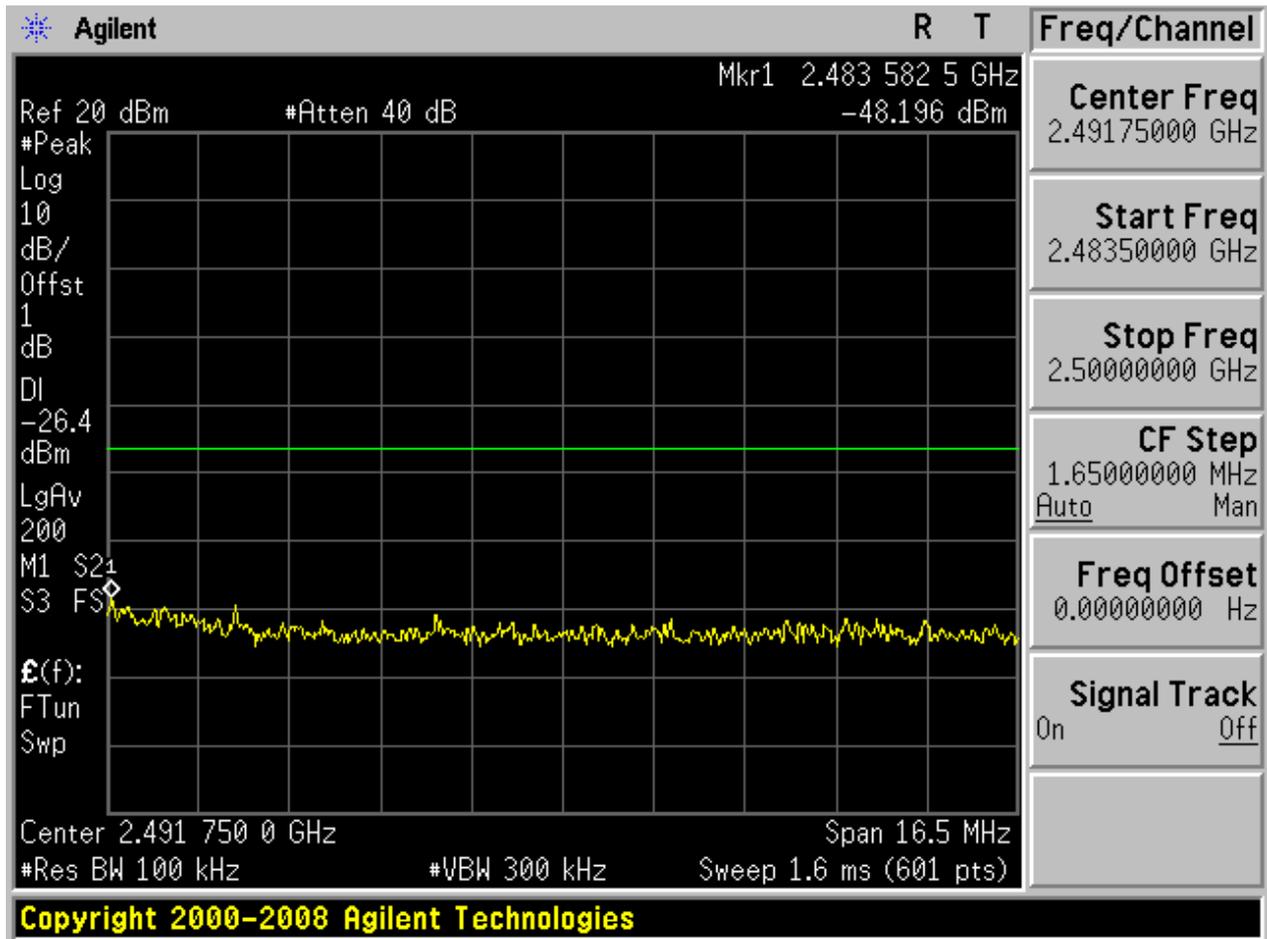
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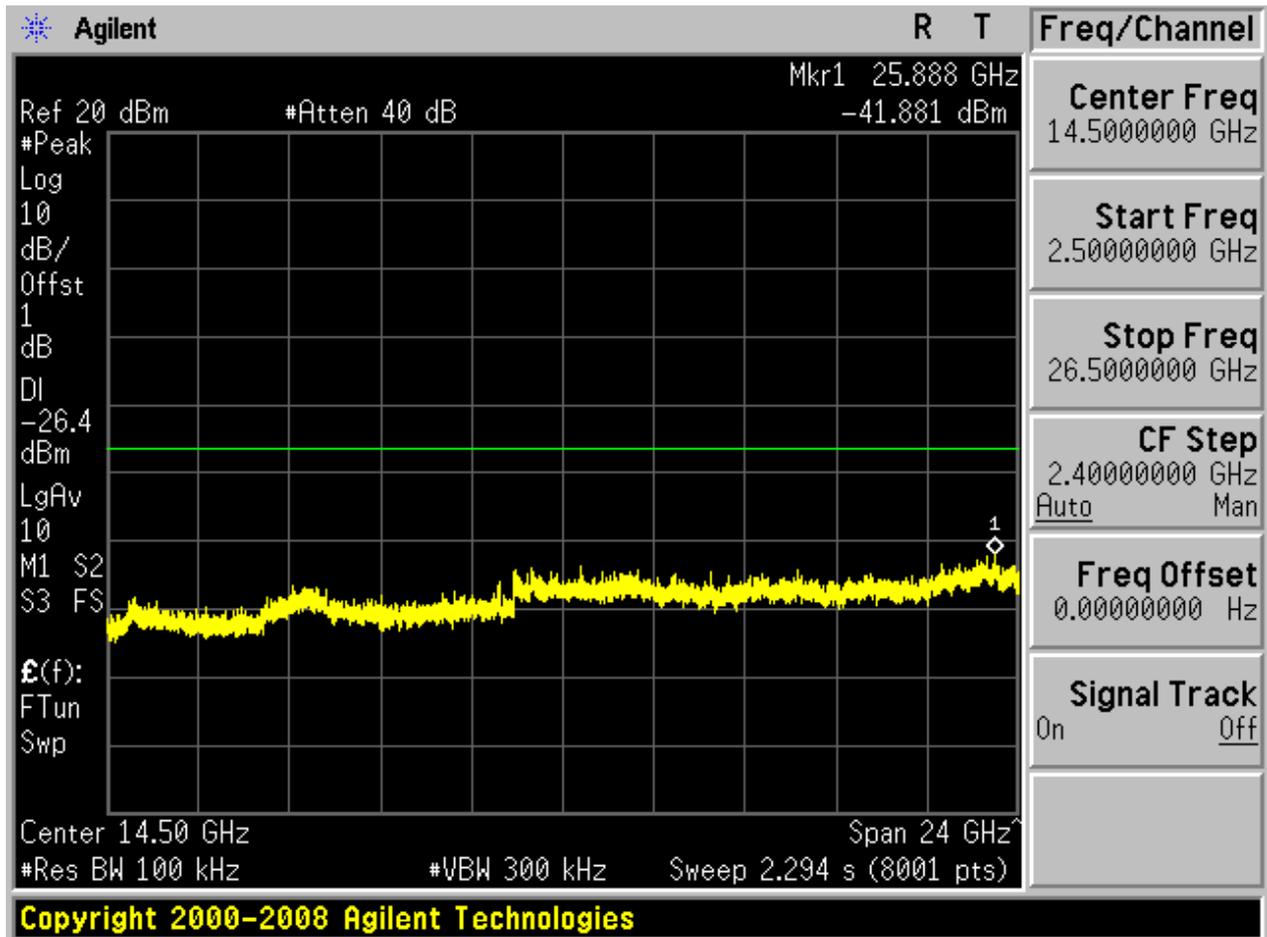








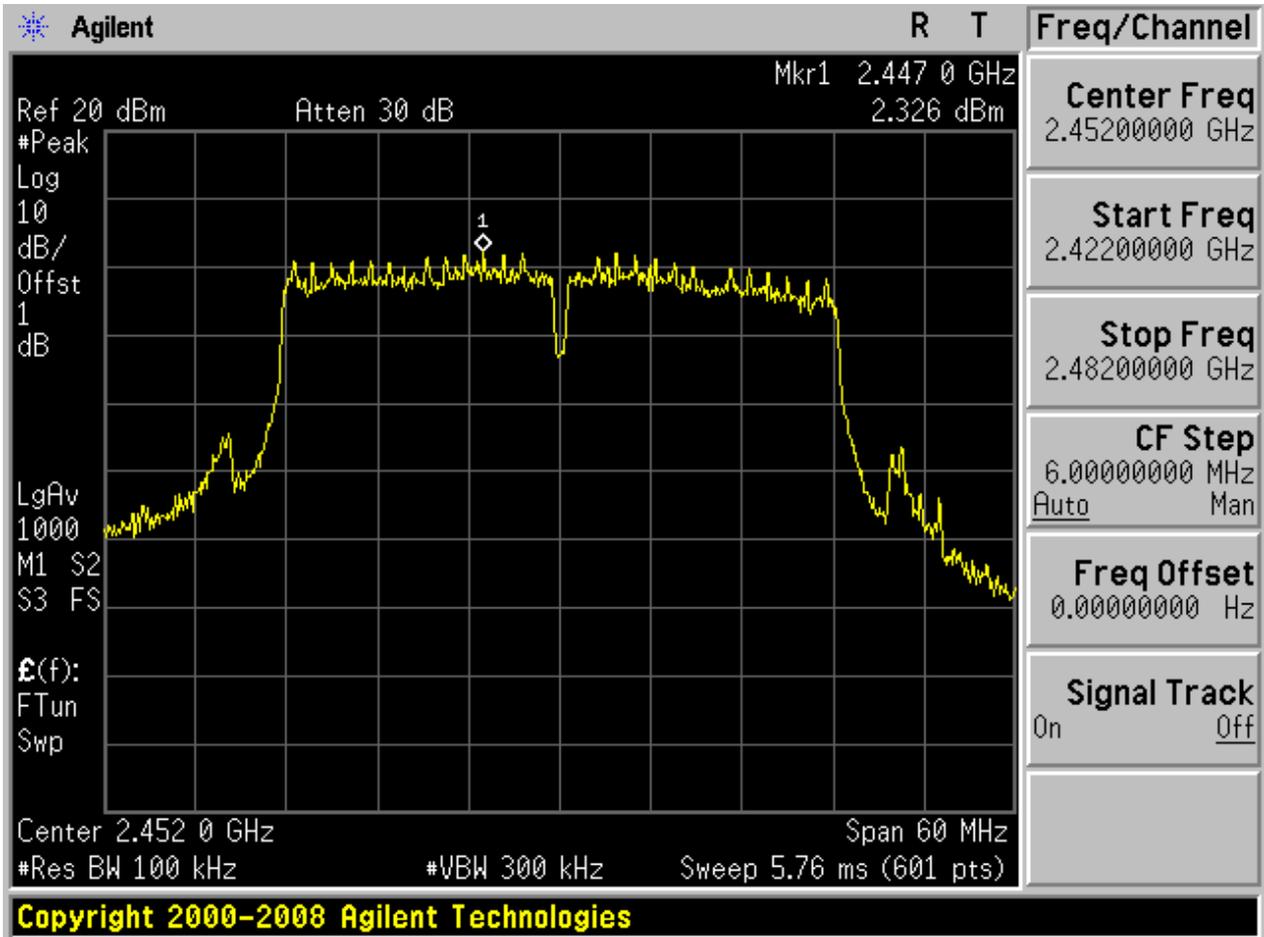






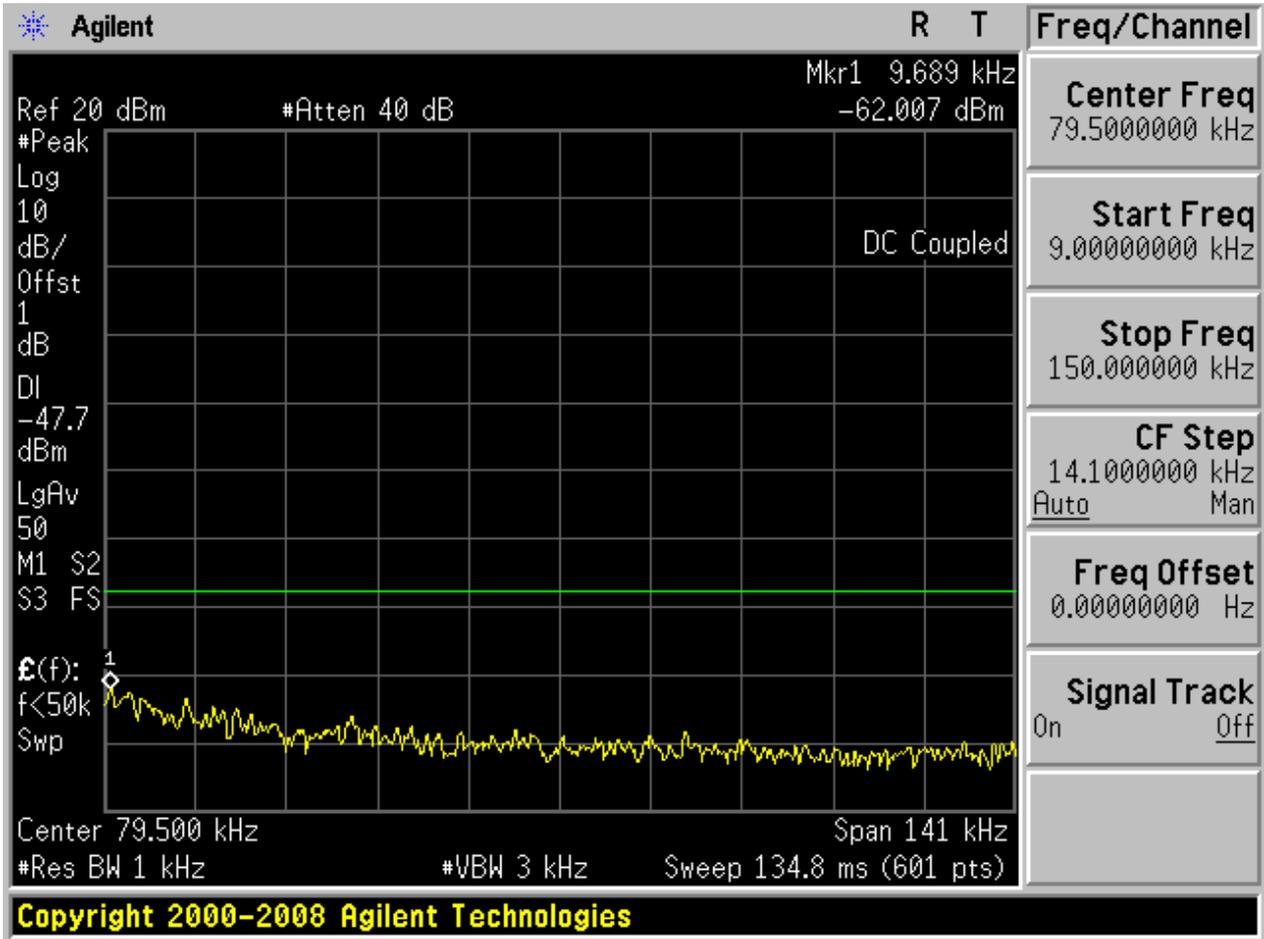
2.36 11N40m\_H@Ant 2

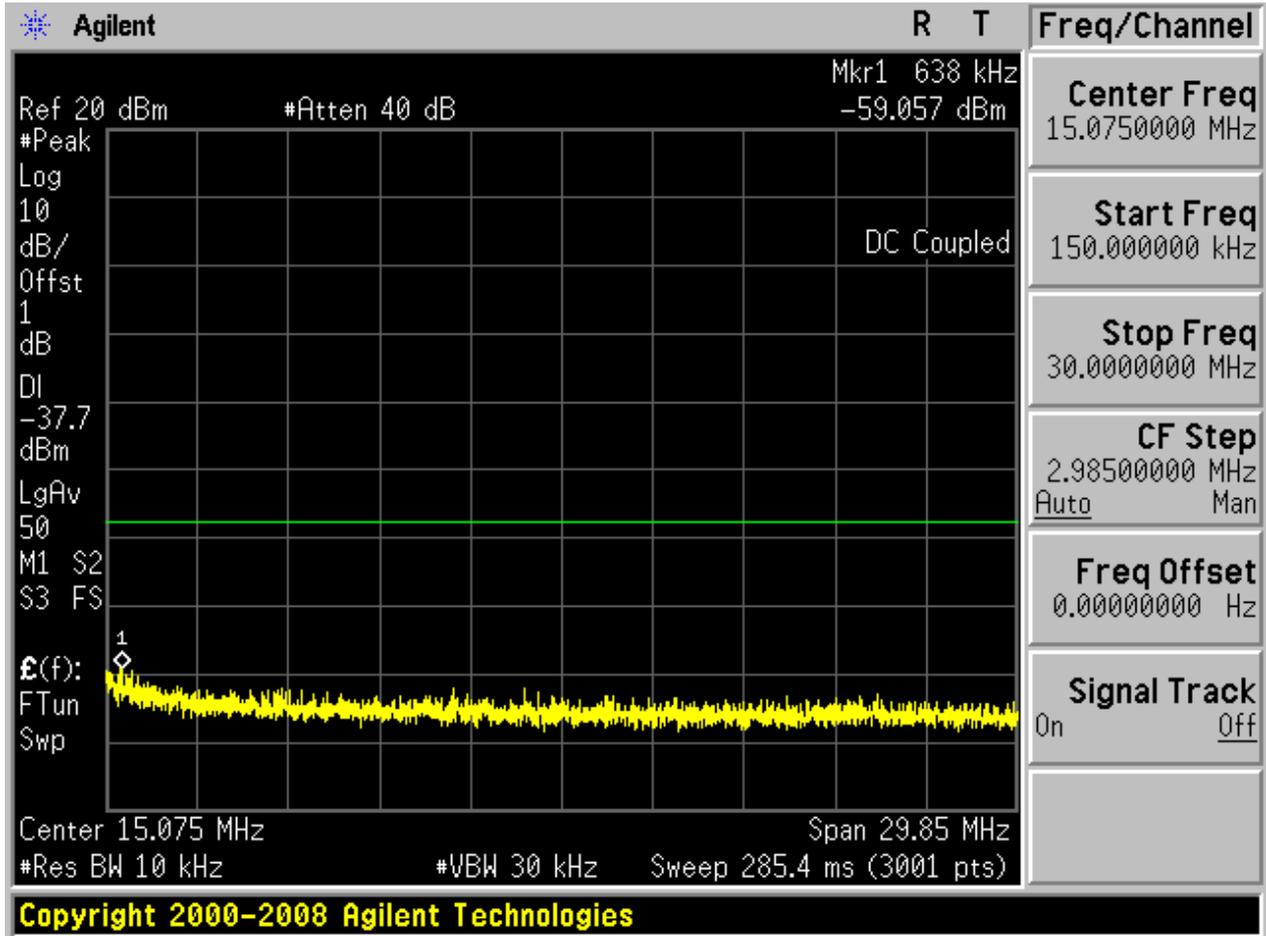
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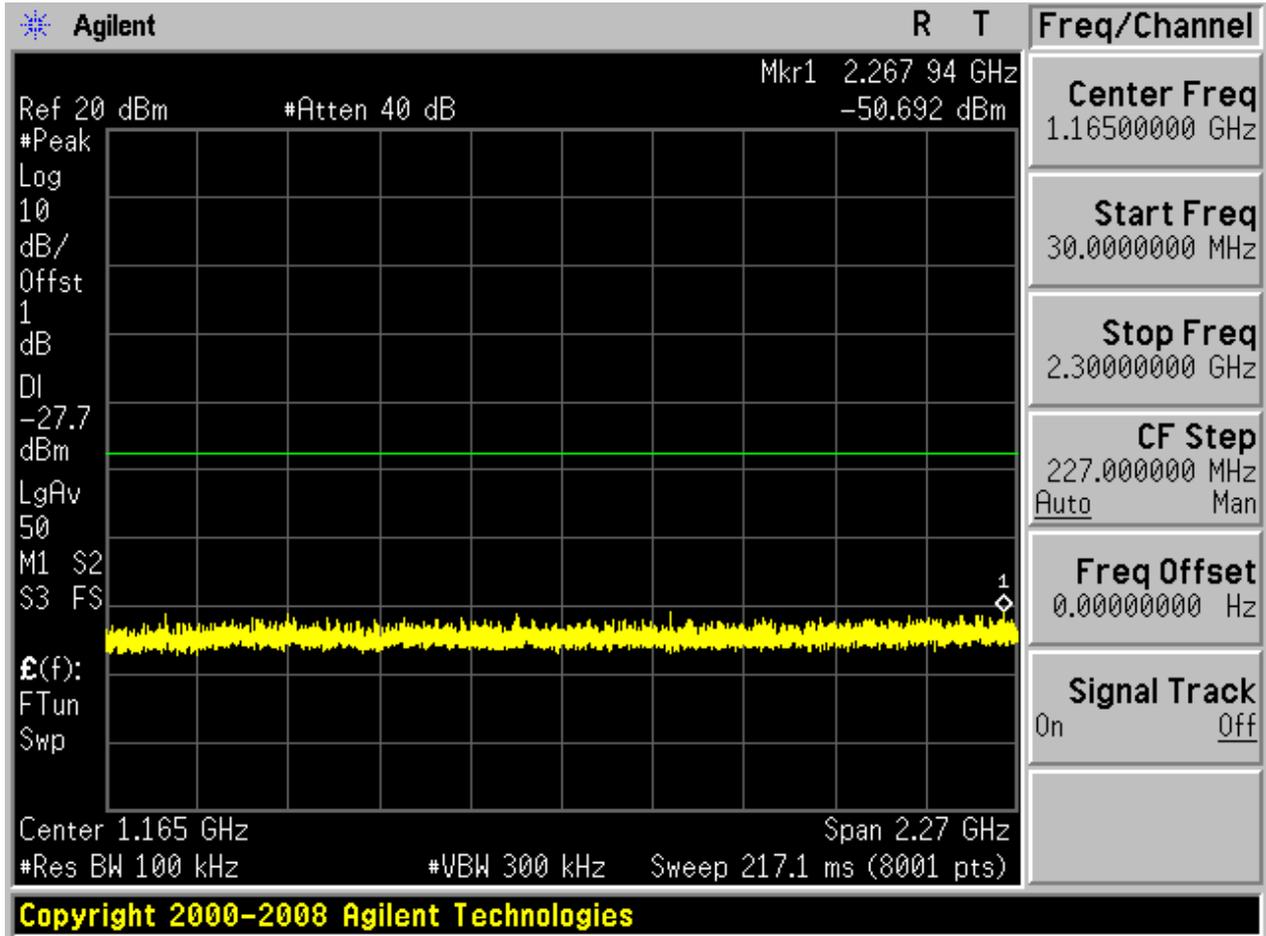


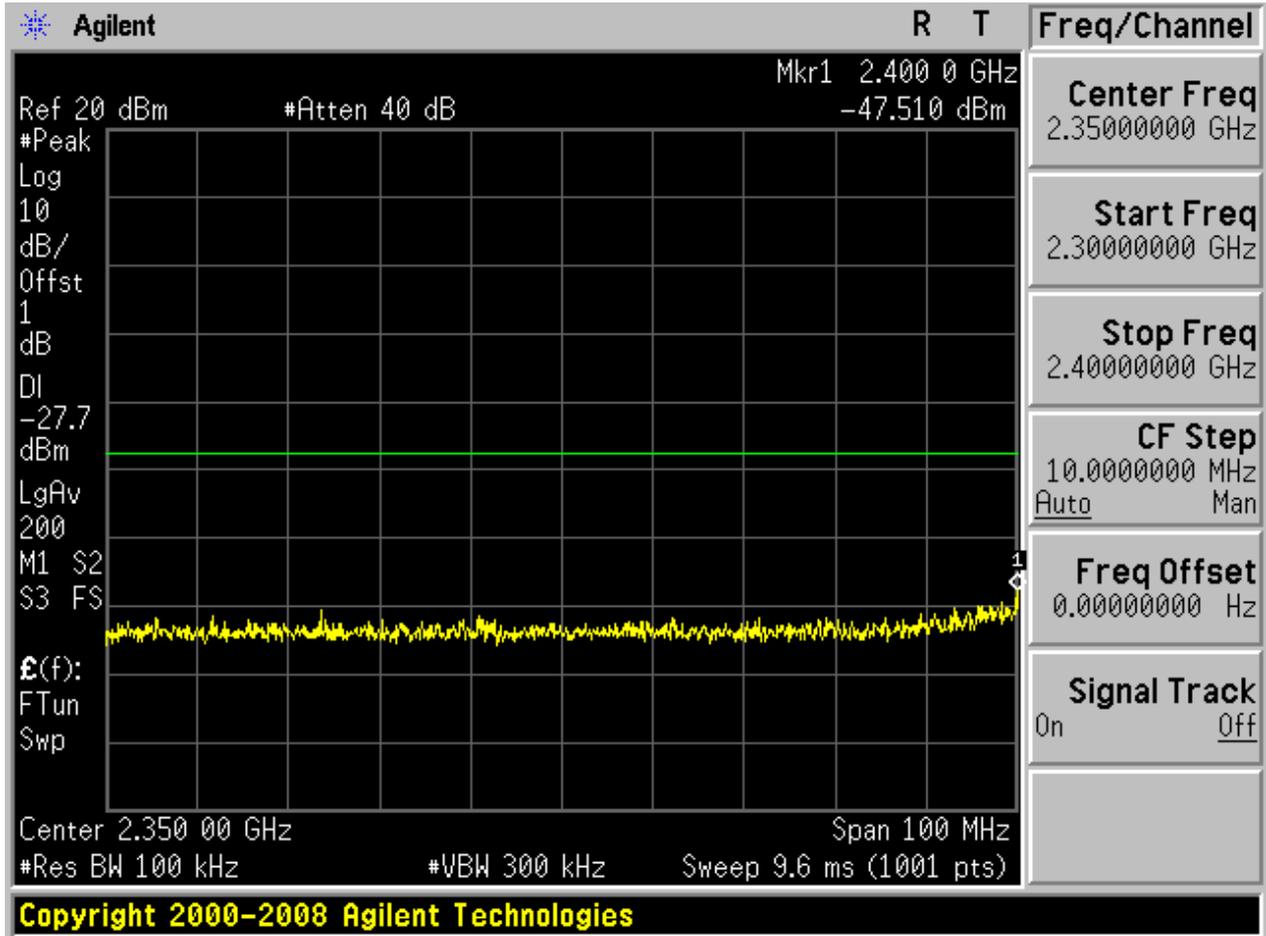


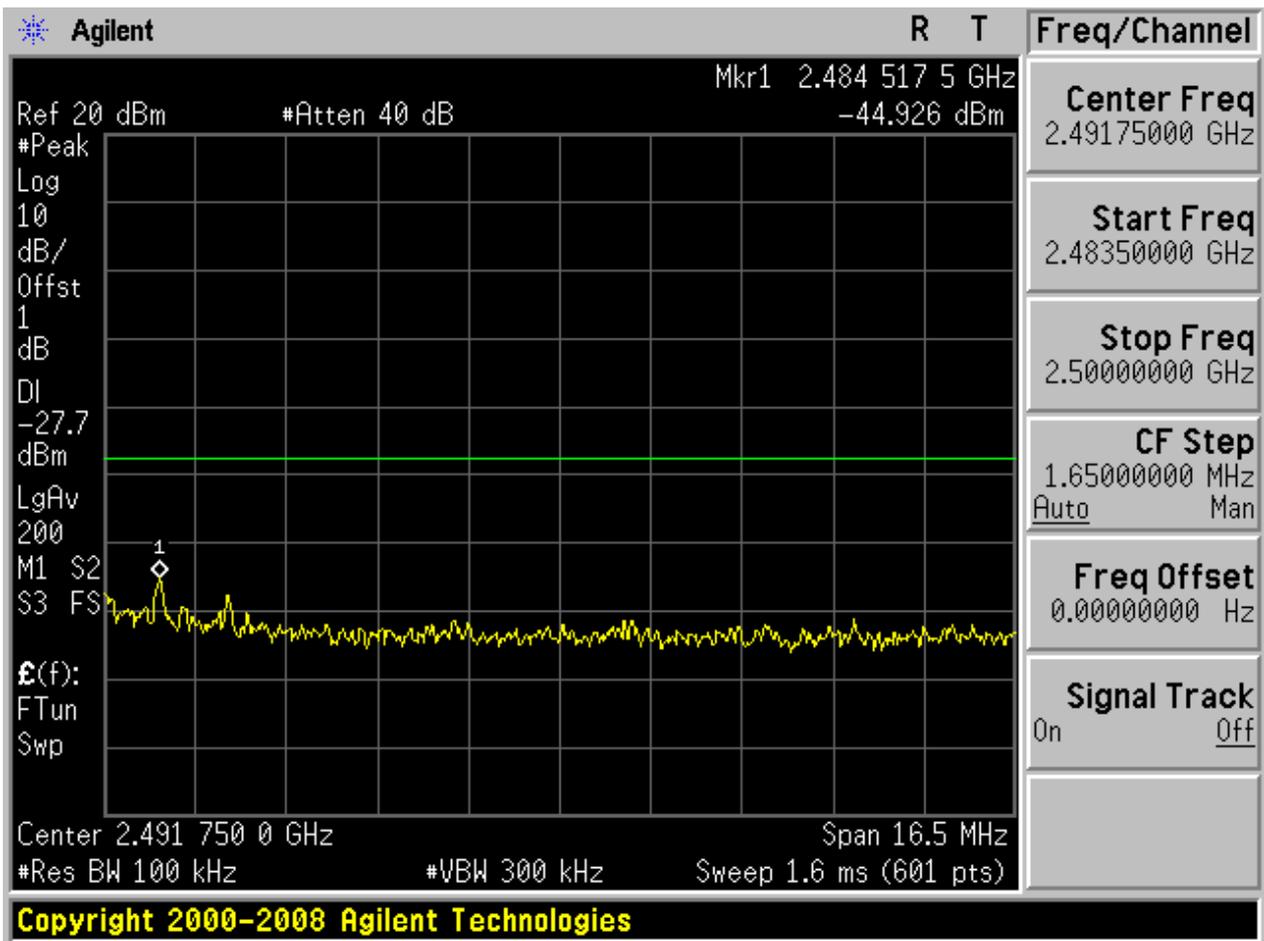
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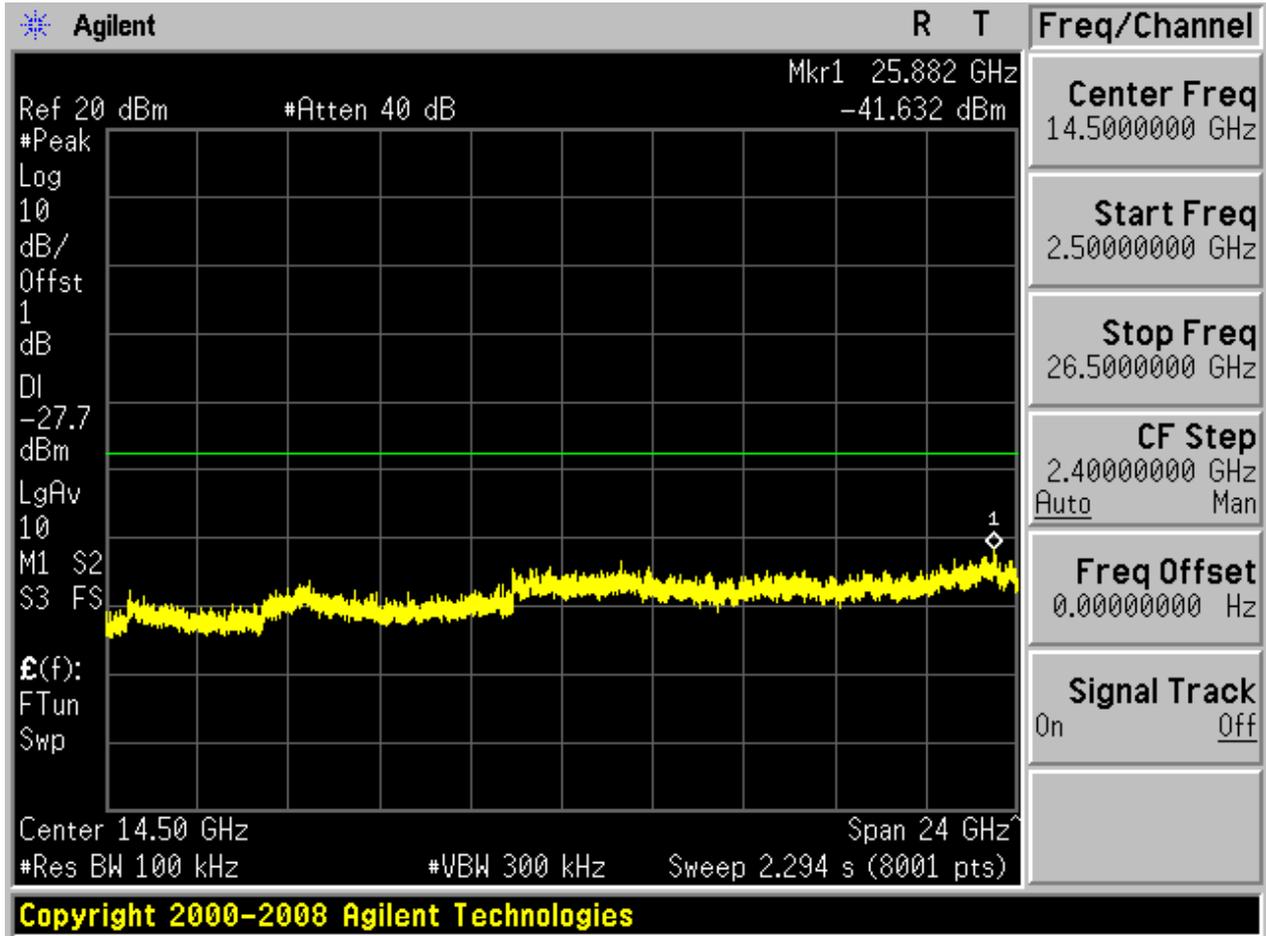














## **Appendix G: Radiated Spurious Emission & Spurious in Restricted Band**

Note: We tested all modes, but the data presented below is the worst state

Below 1GHz, RBW = 100 kHz, VBW = 300 kHz.

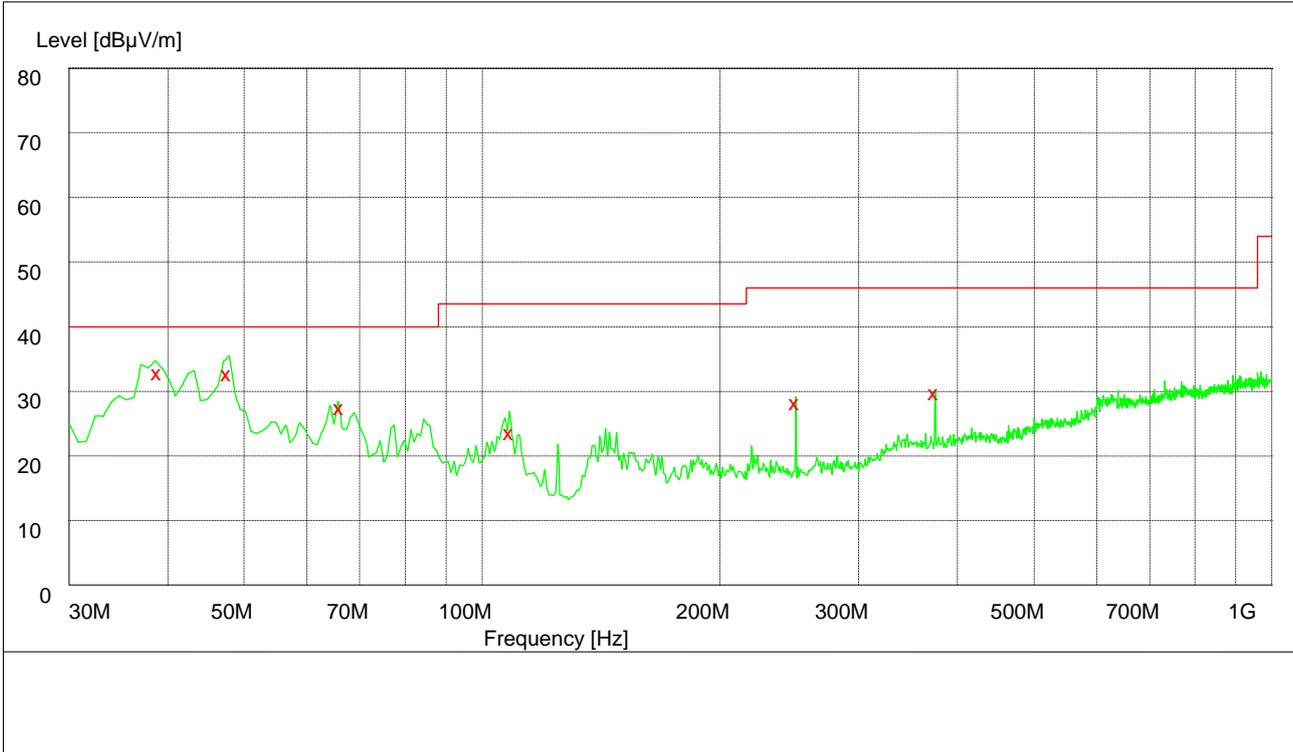
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz.

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.

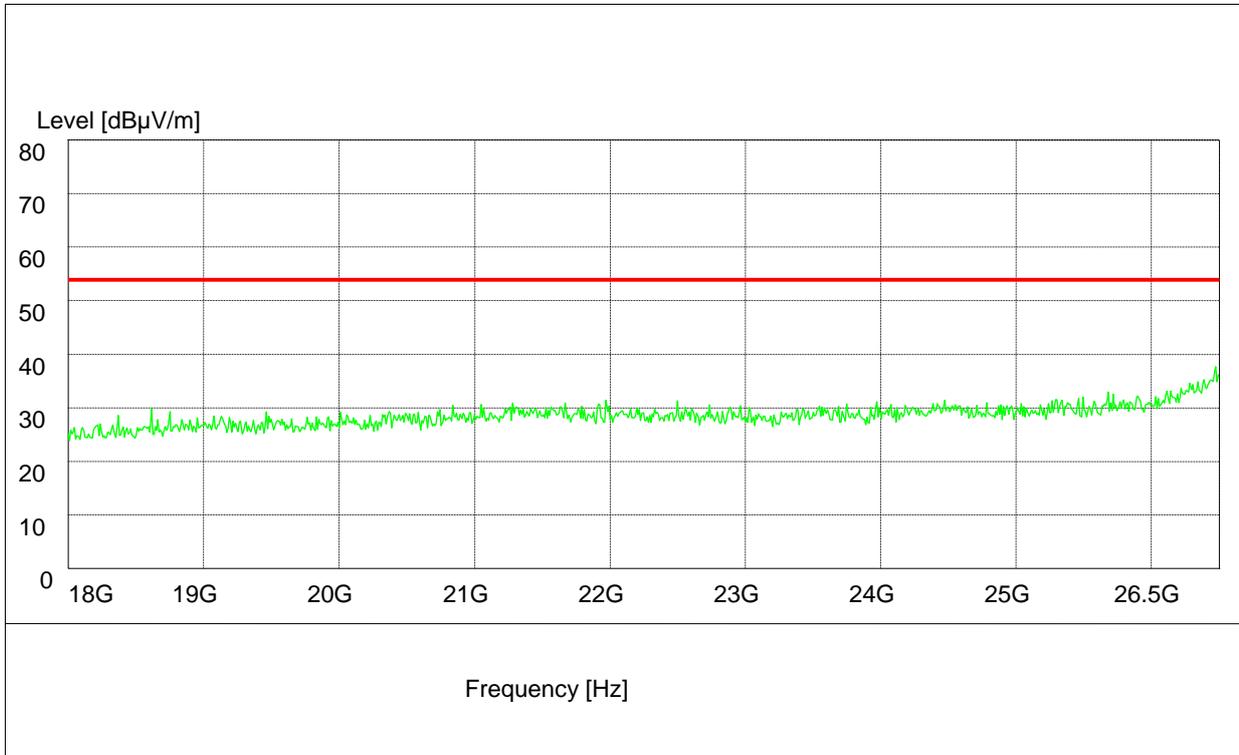
Note 2: **The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).**



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
38.956000	34.30	14.9	40.0	5.7	100.0	350.00	VERTICAL
47.788000	34.10	15.3	40.0	5.9	100.0	306.00	VERTICAL
66.236000	29.00	11.3	40.0	11.0	100.0	151.00	VERTICAL
108.796000	25.10	12.9	43.5	18.4	100.0	18.00	VERTICAL
250.028000	29.80	13.9	46.0	16.2	167.0	0.00	VERTICAL
375.020000	31.30	16.9	46.0	14.7	100.0	18.00	HORIZONTAL

**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”**

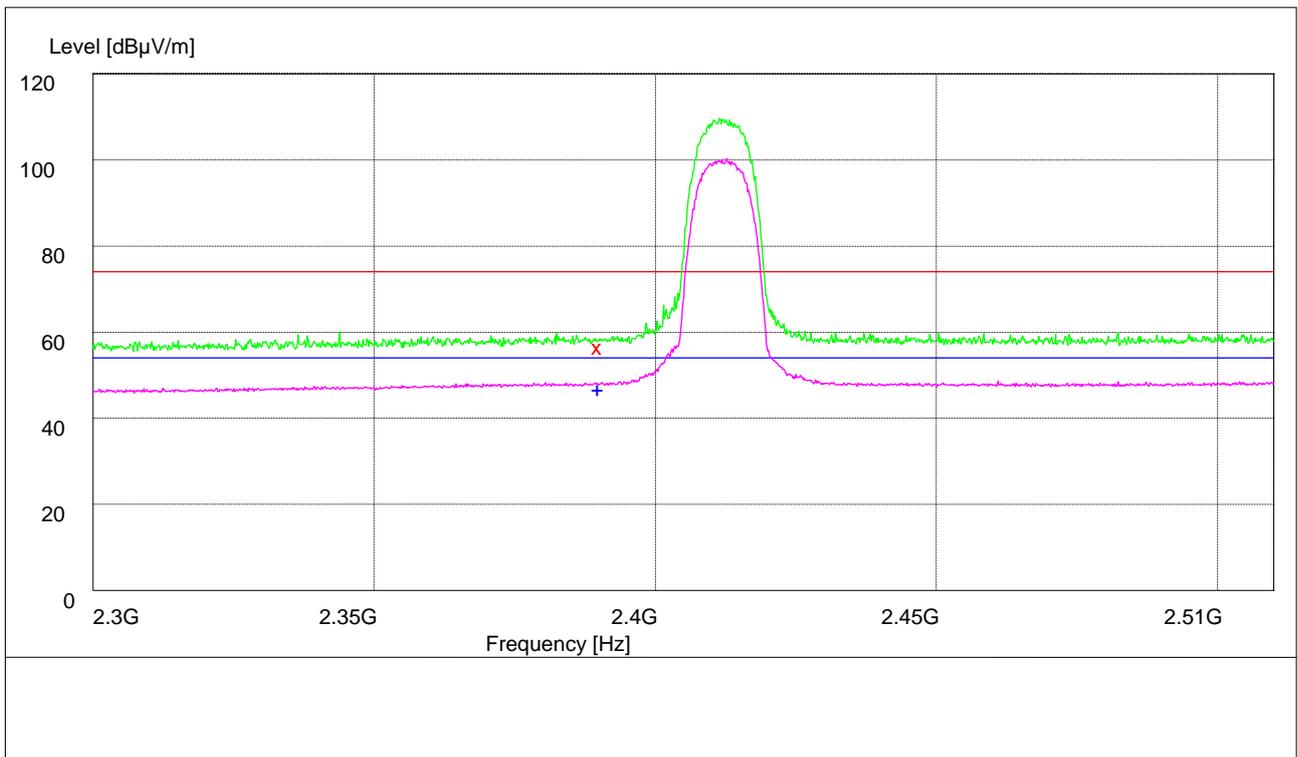
Note 1: The testing range of “2.3 GHz to 2.5 GHz” is for checking radiated emissions located in restricted bands near the EUT operating bands.

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**

**Channel 01**



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

MEASUREMENT RESULT: PK Detector

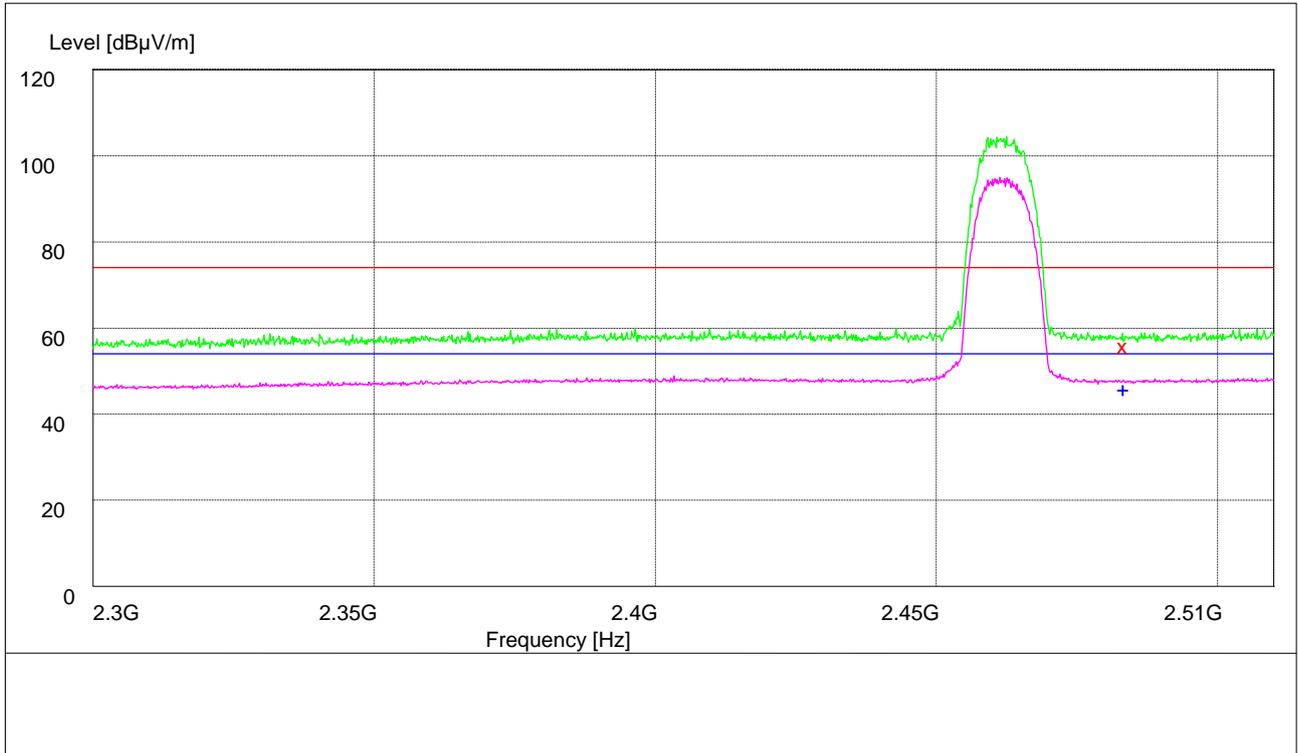
Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	58.60	34.8	74.0	15.4	177.0	74.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Height cm	Azimuth deg	Polarization



2390.000000	46.00	34.8	54.0	8.0	100.0	146.00	HORIZONTAL
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**Channel 11**

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

**MEASUREMENT RESULT: PK Detector**

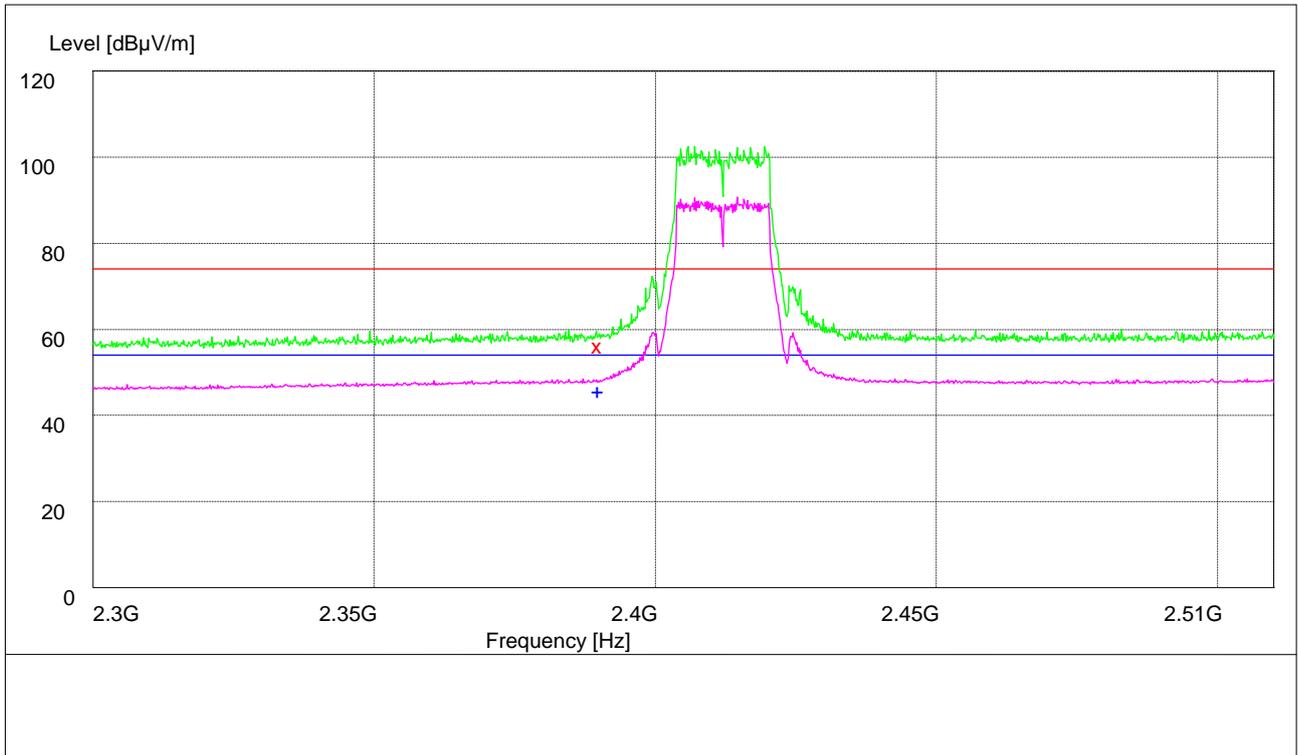
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	55.90	35.1	74.0	18.1	111.0	318.00	VERTICAL

**MEASUREMENT RESULT: AV Detector**

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	45.50	35.1	54.0	8.5	100.0	318.00	HORIZONTAL

**Test Mode: 11g**

**Channel 01**



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

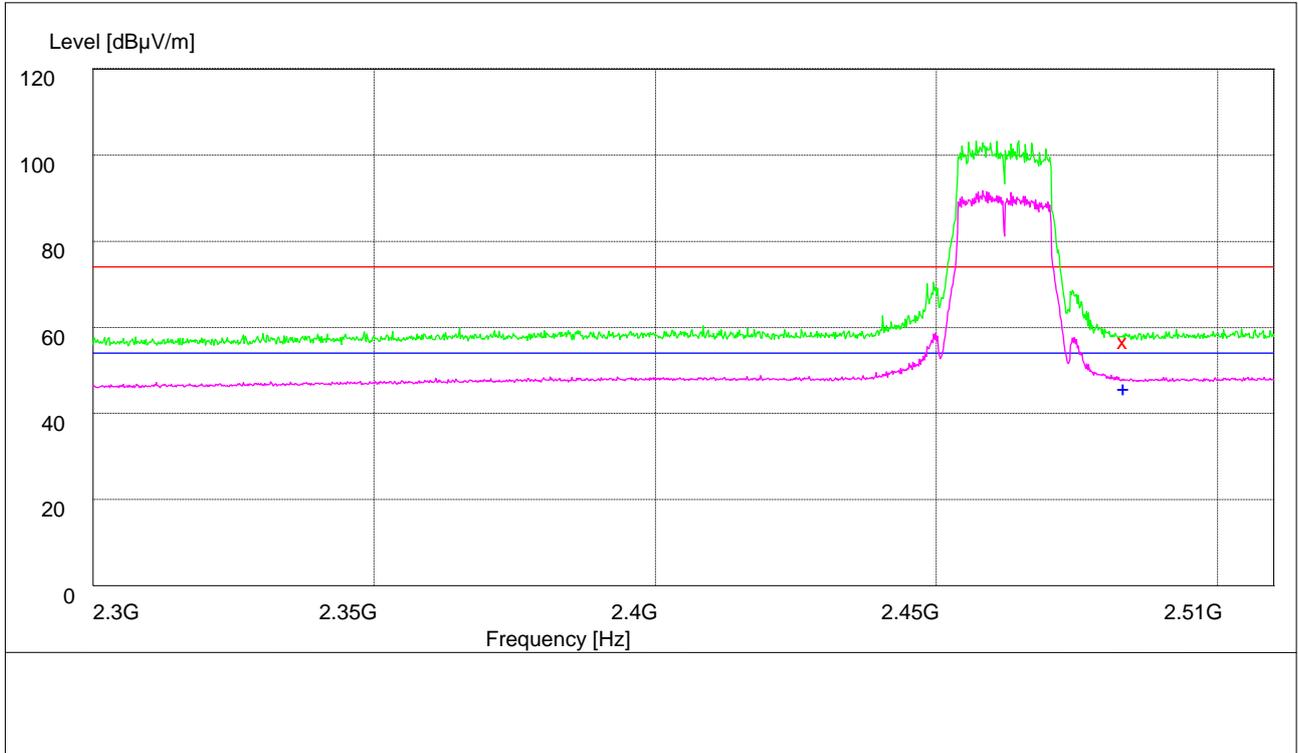
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	58.30	34.8	74.0	15.7	185.0	327.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.00	34.8	54.0	6.0	102.0	214.00	VERTICAL

**Channel 11**



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

MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	58.90	35.1	74.0	15.1	102.0	274.00	VERTICAL

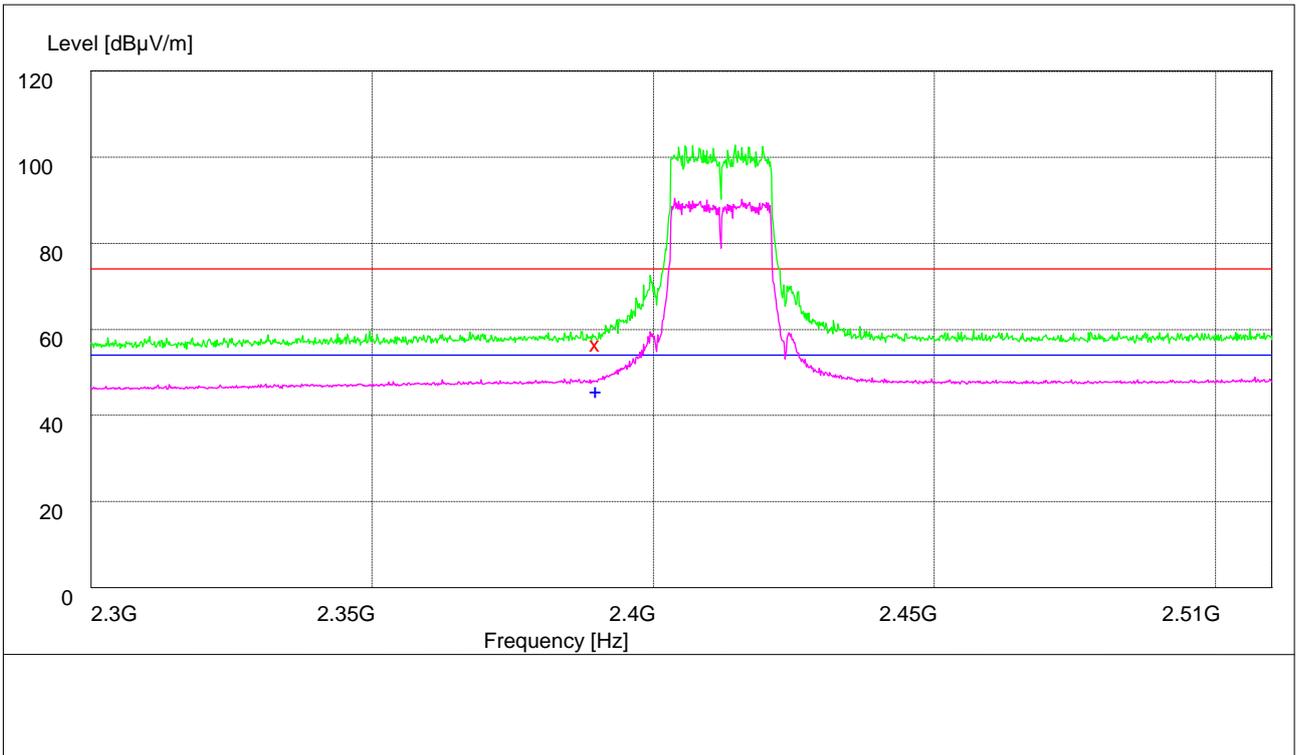
MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	45.50	35.1	54.0	8.5	102.0	175.00	HORIZONTAL



Test Mode: 11n

Channel 01



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

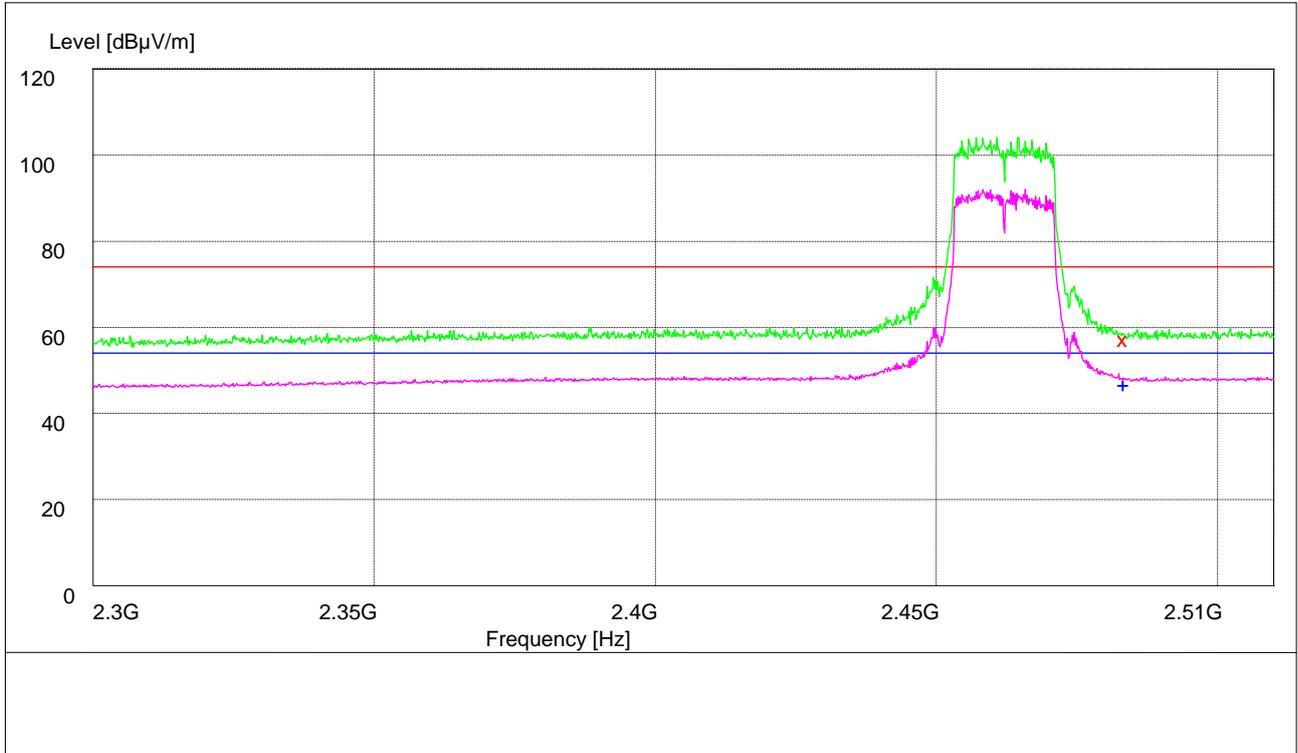
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	58.80	34.8	74.0	15.2	102.0	220.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	44.50	34.8	54.0	9.5	106.0	173.00	HORIZONTAL

**Channel 11**



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

MEASUREMENT RESULT: PK Detector

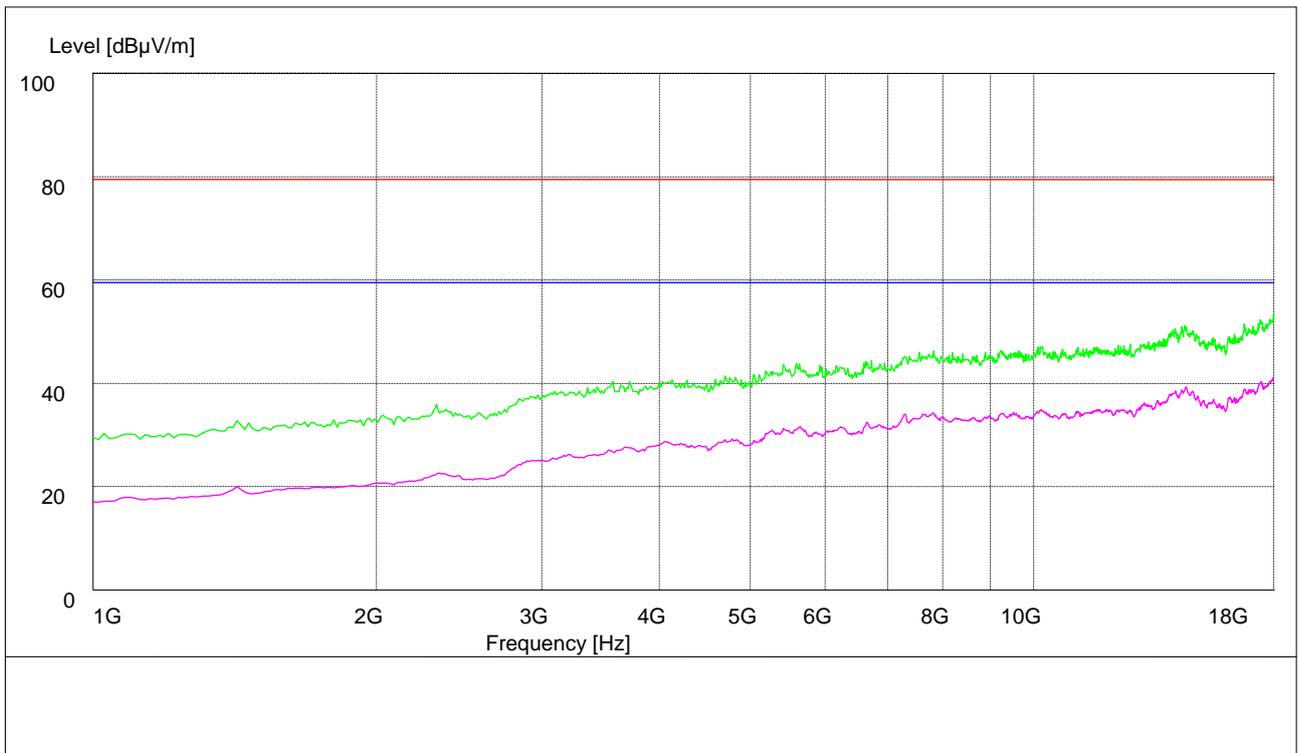
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	56.30	35.1	74.0	17.7	112.0	181.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	44.70	35.1	54.0	9.3	106.0	153.00	HORIZONTAL

#### 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).

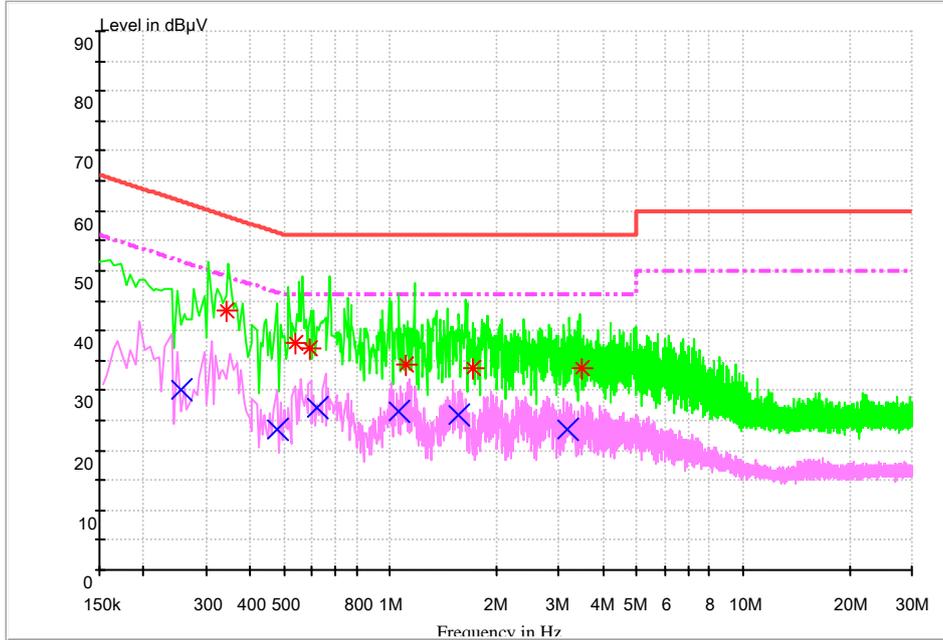




## Appendix H: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

# Channel 6



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Line	Transducer dB	Margin dB	Limit dBµV	PE
0.341681	43.2	L1	9.7	16	59.2	FLO
0.537146	38.1	L1	9.7	17.9	56	FLO
0.593805	37.1	L1	9.7	18.9	56	FLO
1.104367	34.3	L1	9.7	21.7	56	FLO
1.707424	33.6	L1	9.7	22.4	56	FLO
3.502928	33.8	N	9.7	22.2	56	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Line	Transducer dB	Margin dB	Limit dBµV	PE
0.256286	30.1	L1	9.7	21.5	51.6	FLO
0.477683	23.3	N	9.7	23.1	46.4	FLO
0.618998	27.1	N	9.7	18.9	46	FLO
1.060264	26.5	N	9.7	19.5	46	FLO
1.55709	26	N	9.7	20	46	FLO
3.152846	23.6	N	9.7	22.4	46	FLO

END