



## Appendix for Test report



## Appendix A: DTS (6 dB) Bandwidth

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

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

### Part I - Test Results

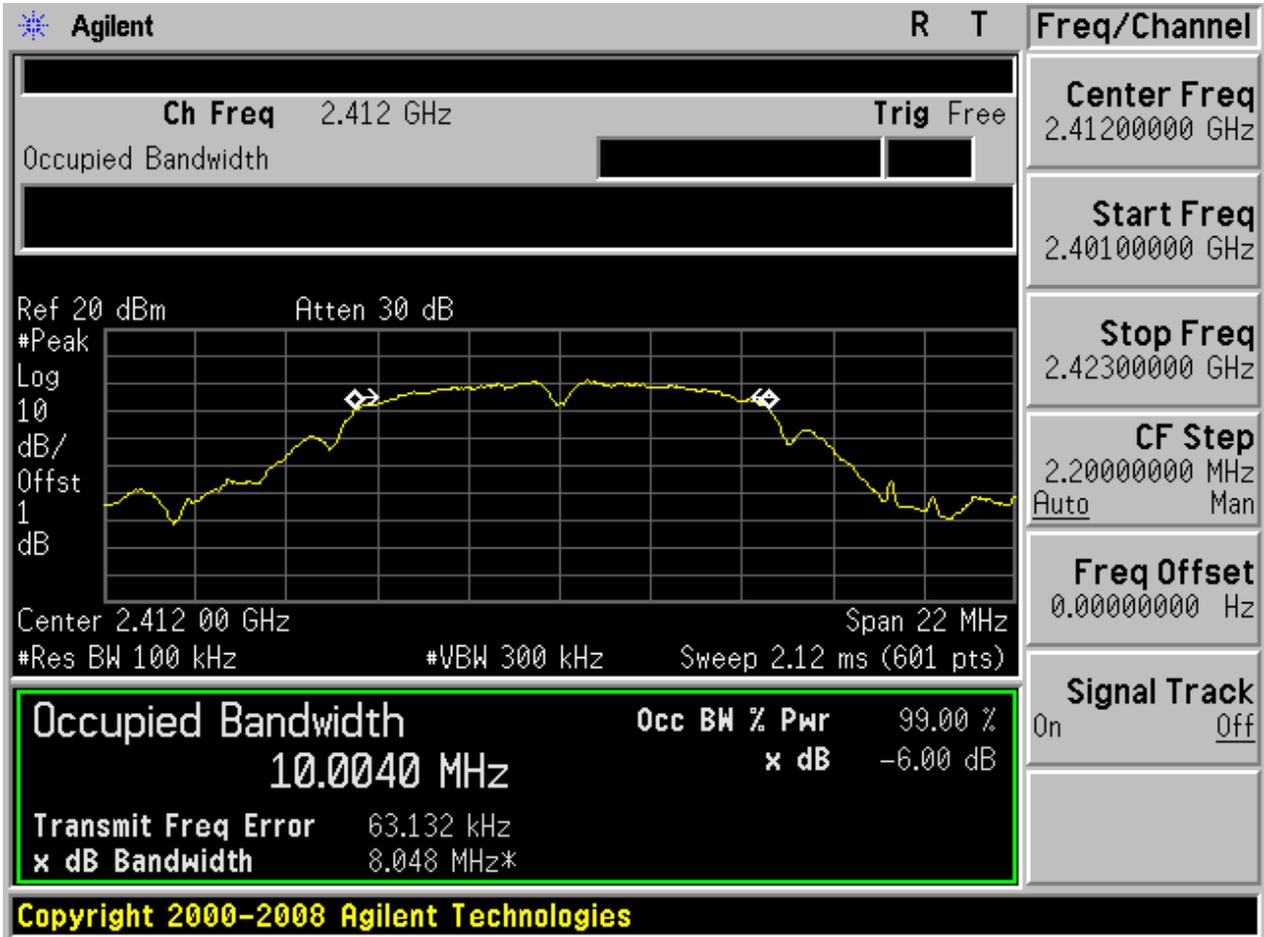
Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11B	L	2412	Ant 1	8.05	pass
11B	L	2412	Ant 2	8.07	pass
11B	M	2437	Ant 1	8.15	pass
11B	M	2437	Ant 2	8.17	pass
11B	H	2462	Ant 1	7.99	pass
11B	H	2462	Ant 2	8.07	pass
11G	L	2412	Ant 1	15.72	pass
11G	L	2412	Ant 2	15.73	pass
11G	M	2437	Ant 1	16.39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



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

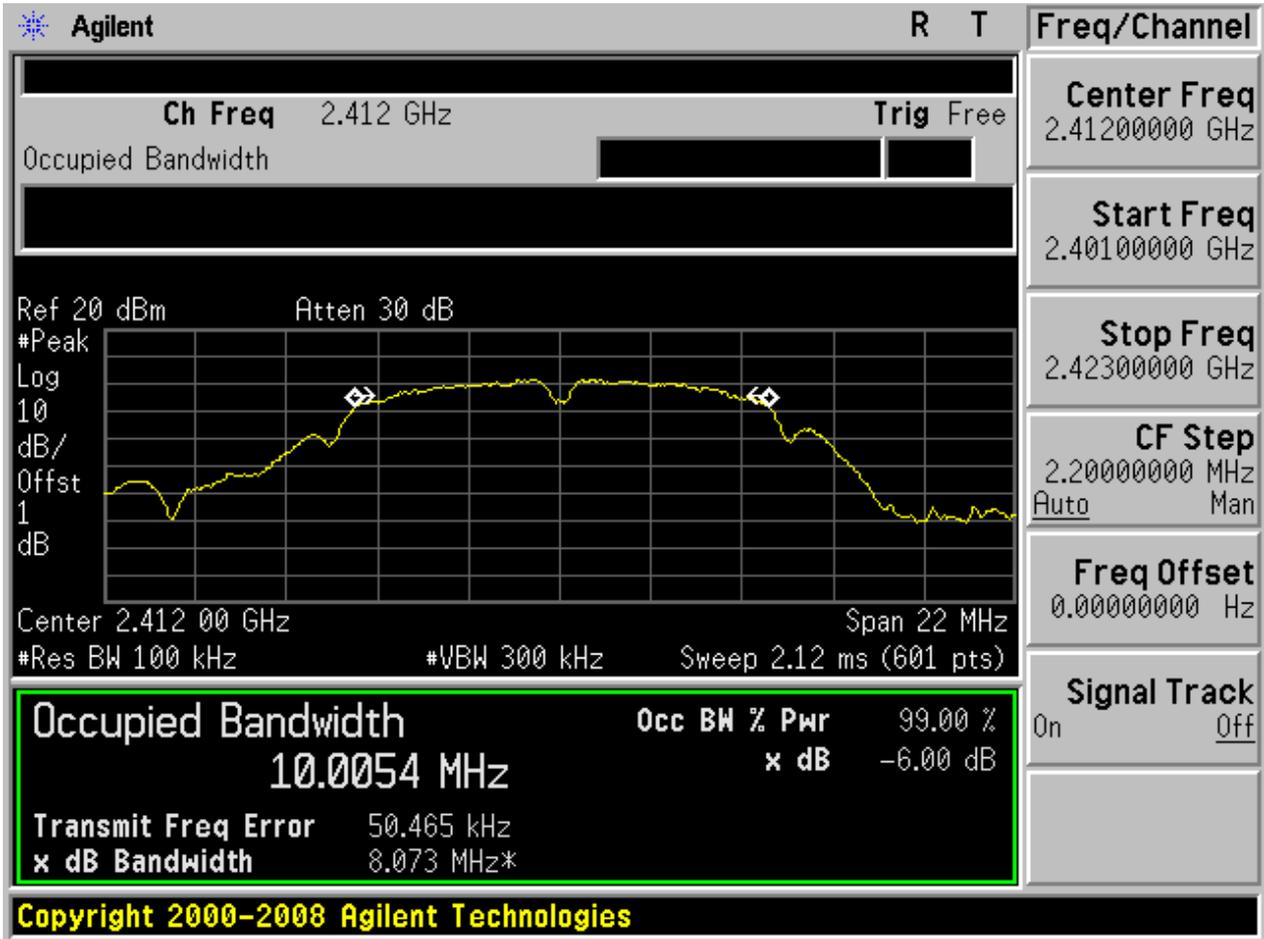
Part II - Test Plots

2.1 11B\_L@Ant 1



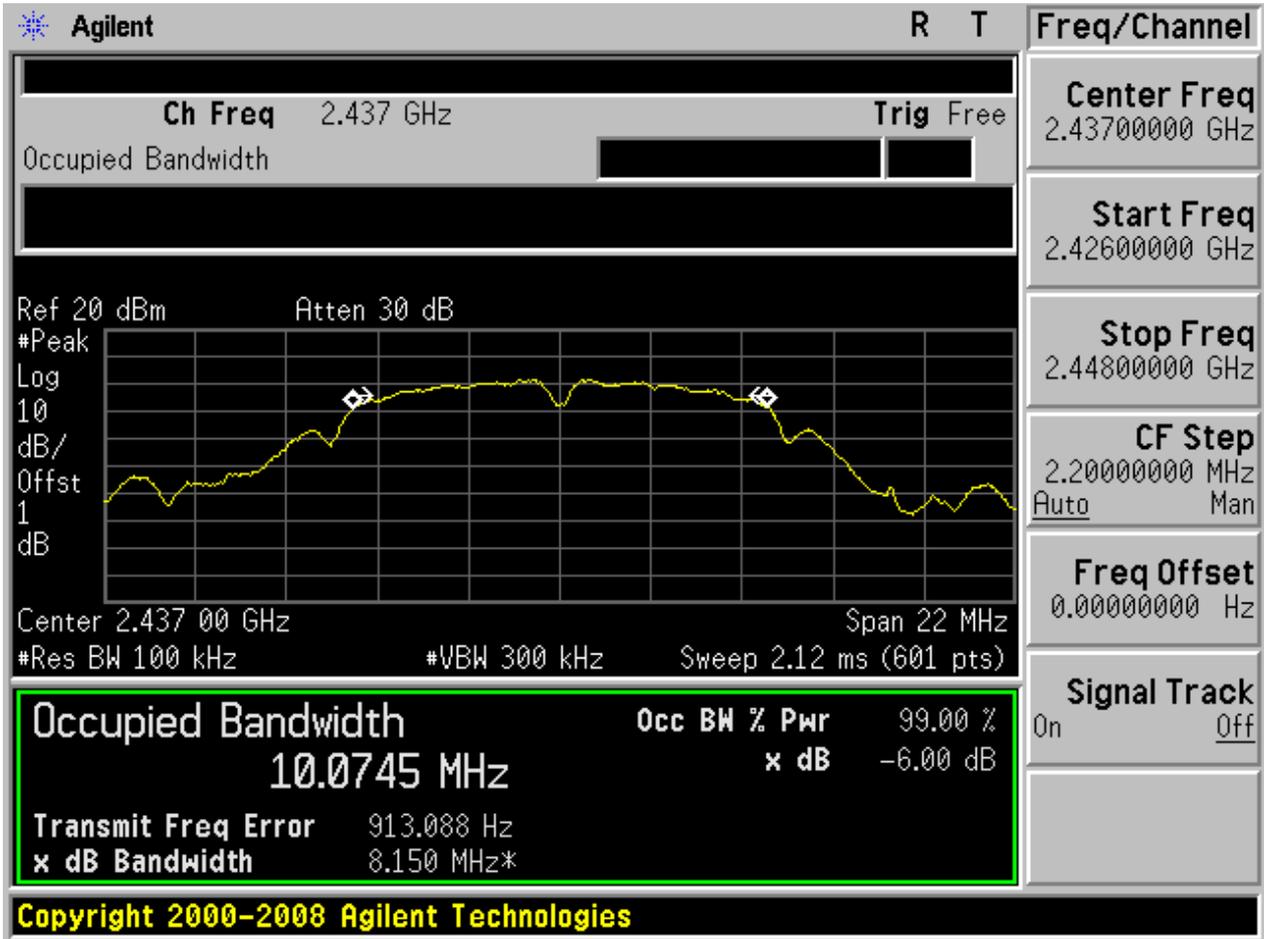


2.2 11B\_L@Ant 2



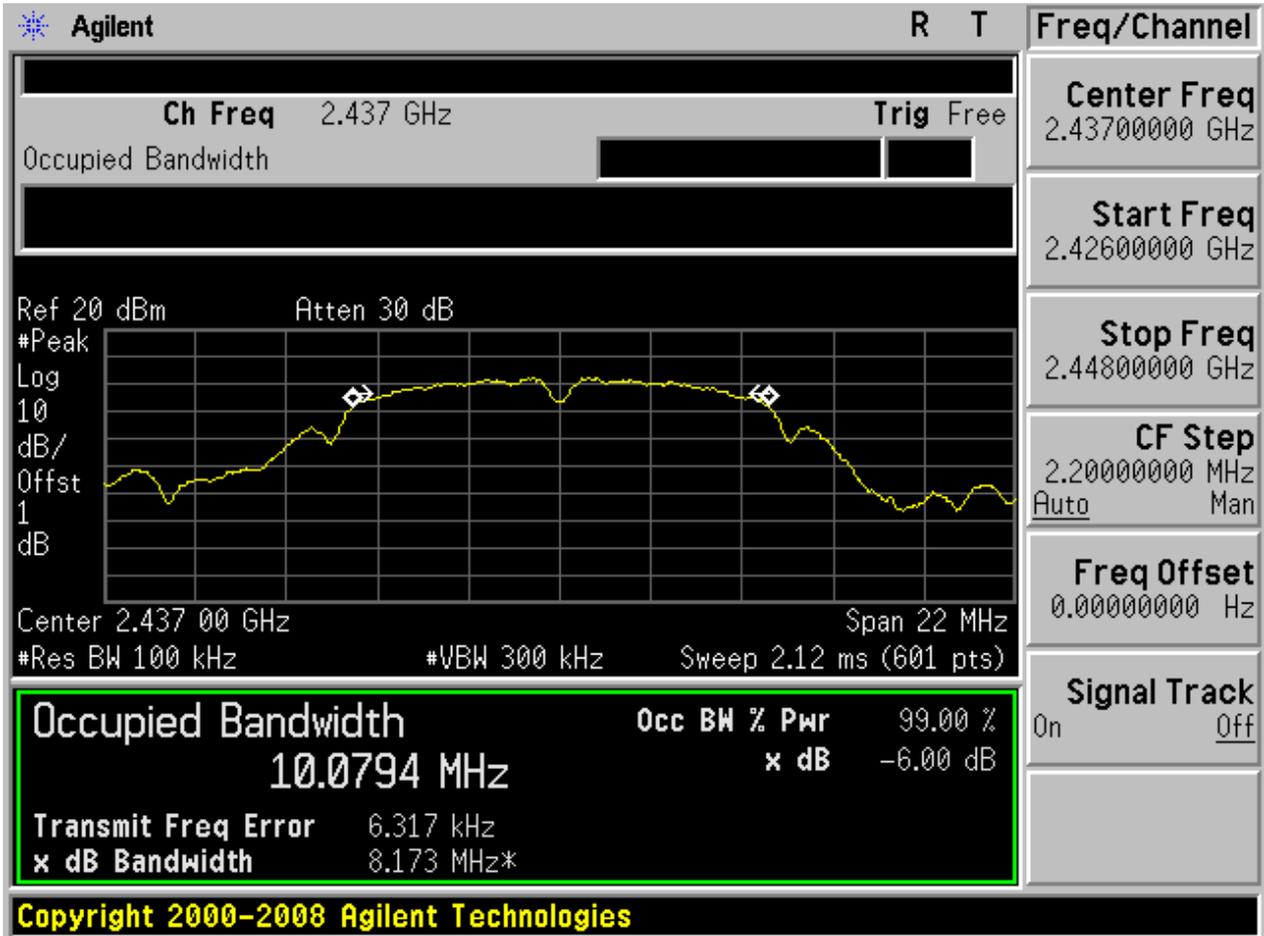


2.3 11B\_M@Ant 1



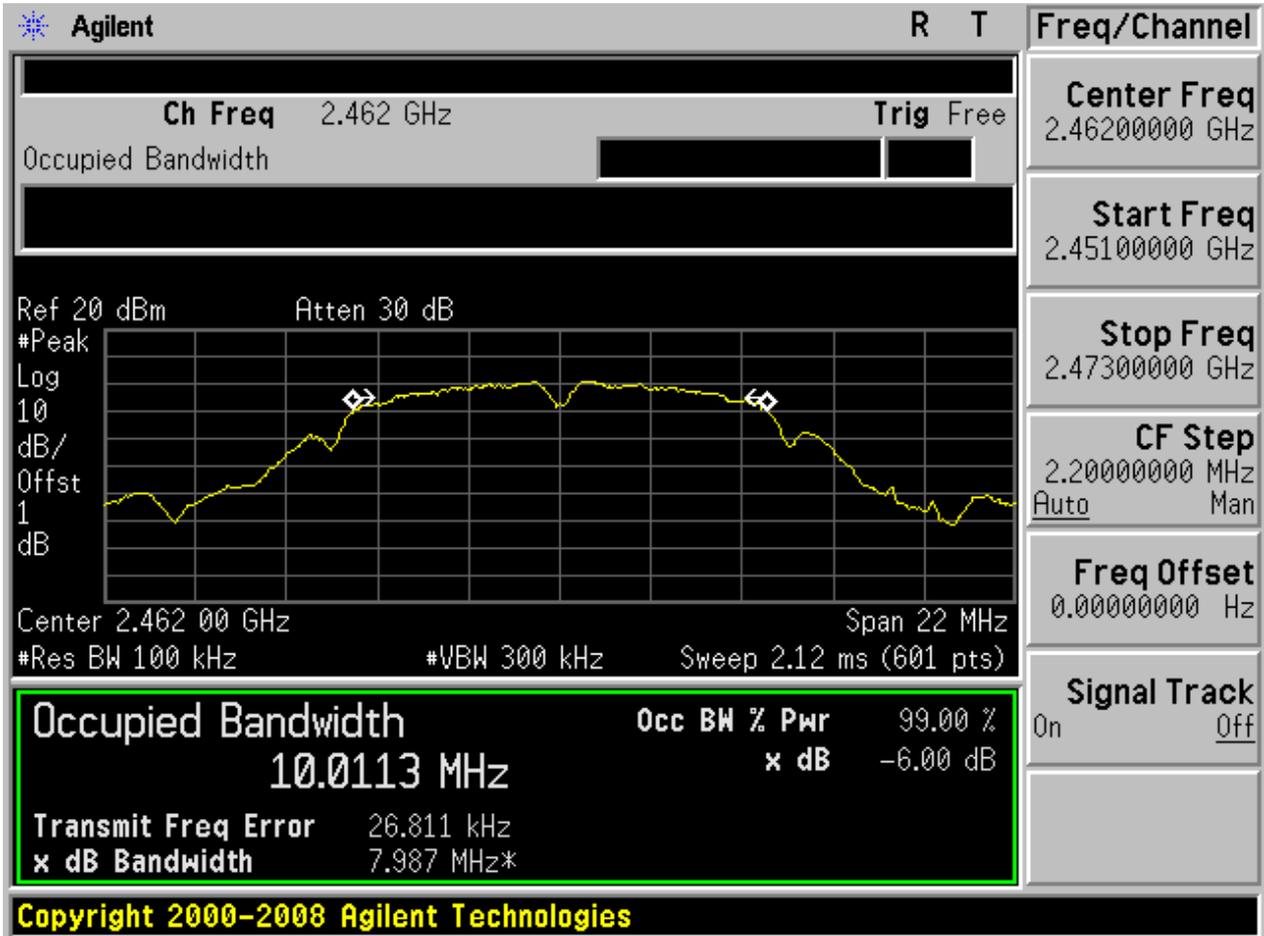


2.4 11B\_M@Ant 2





2.5 11B\_H@Ant 1



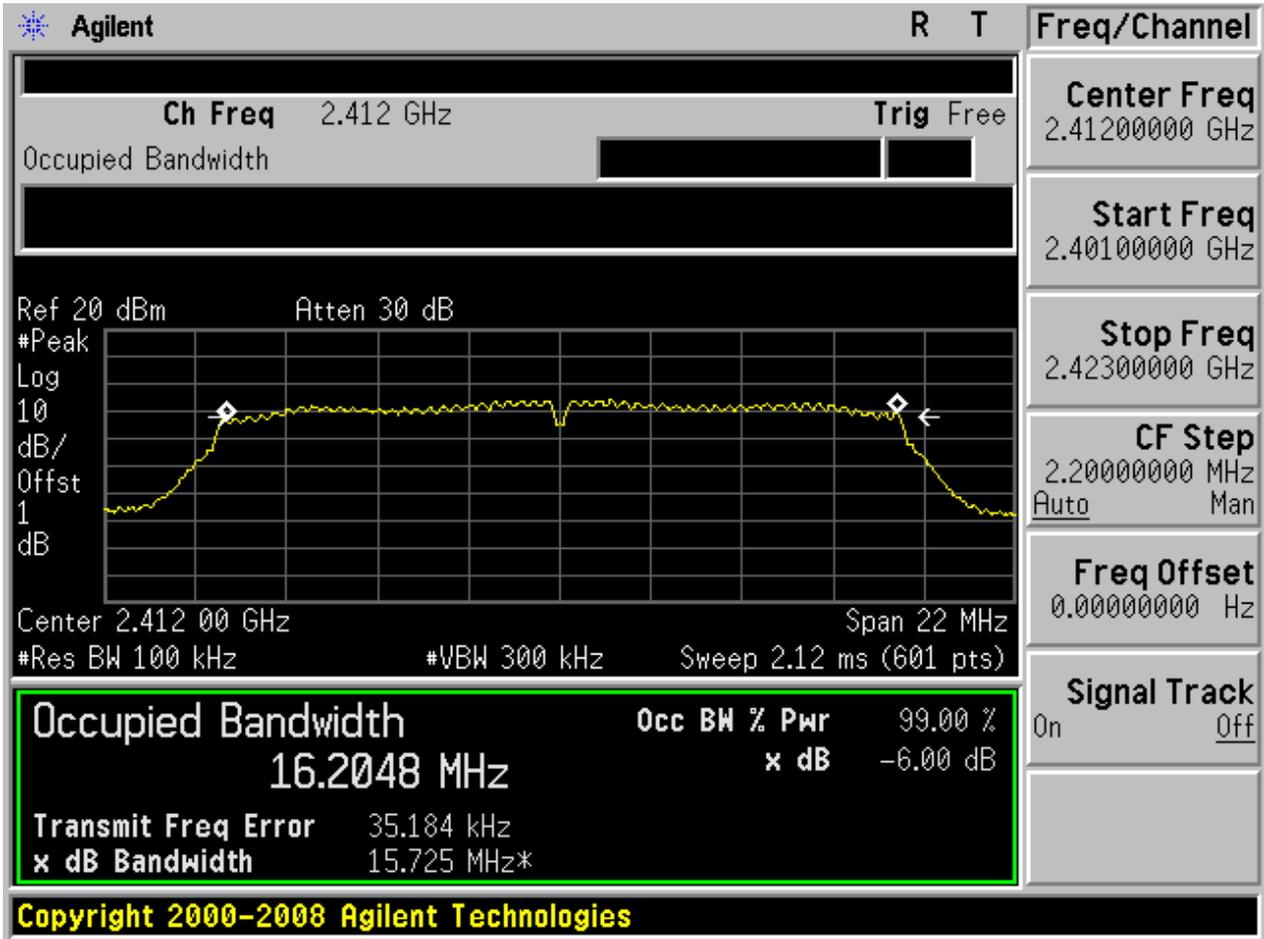


2.6 11B\_H@Ant 2



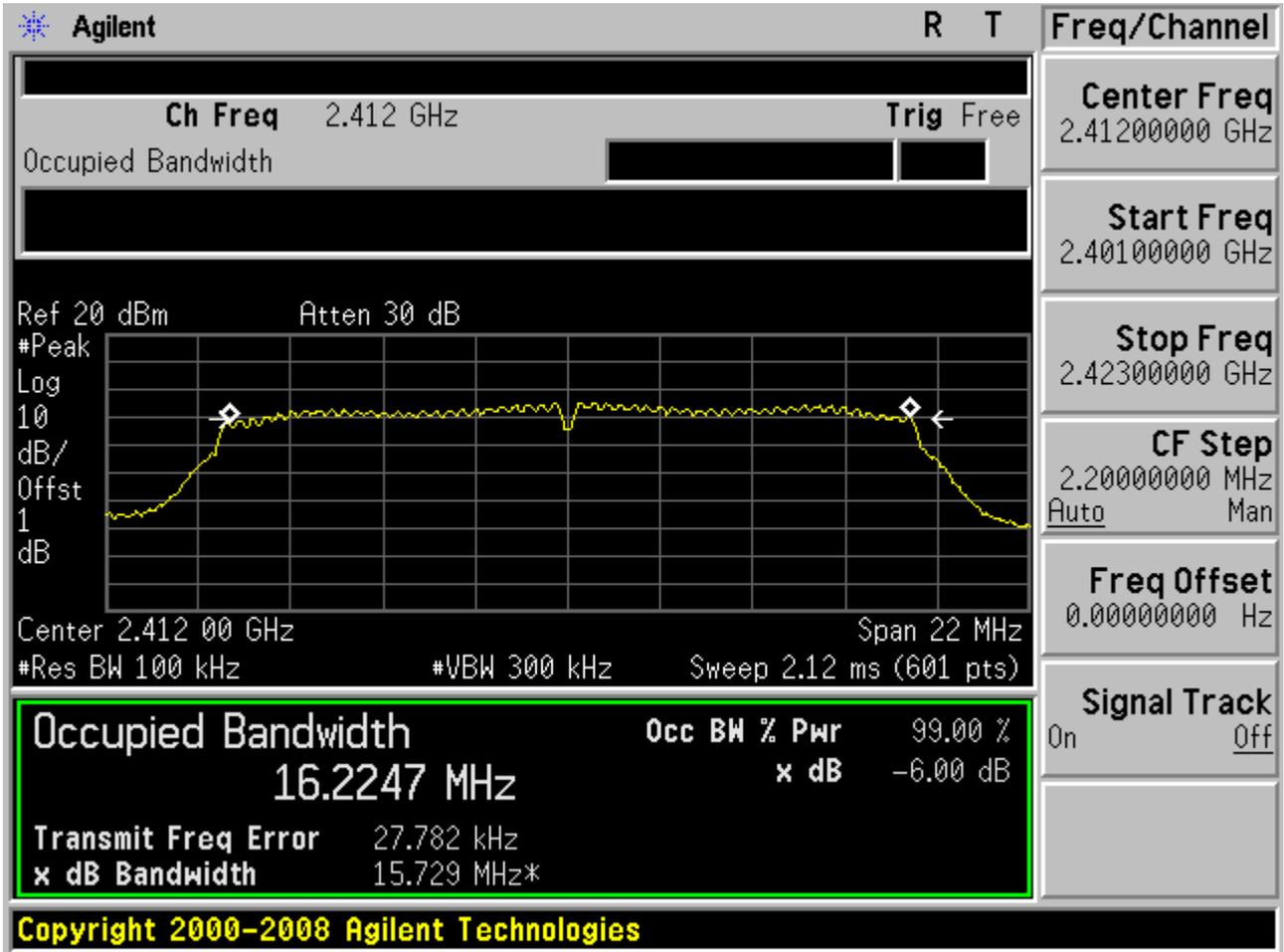


2.7 11G\_L@Ant 1



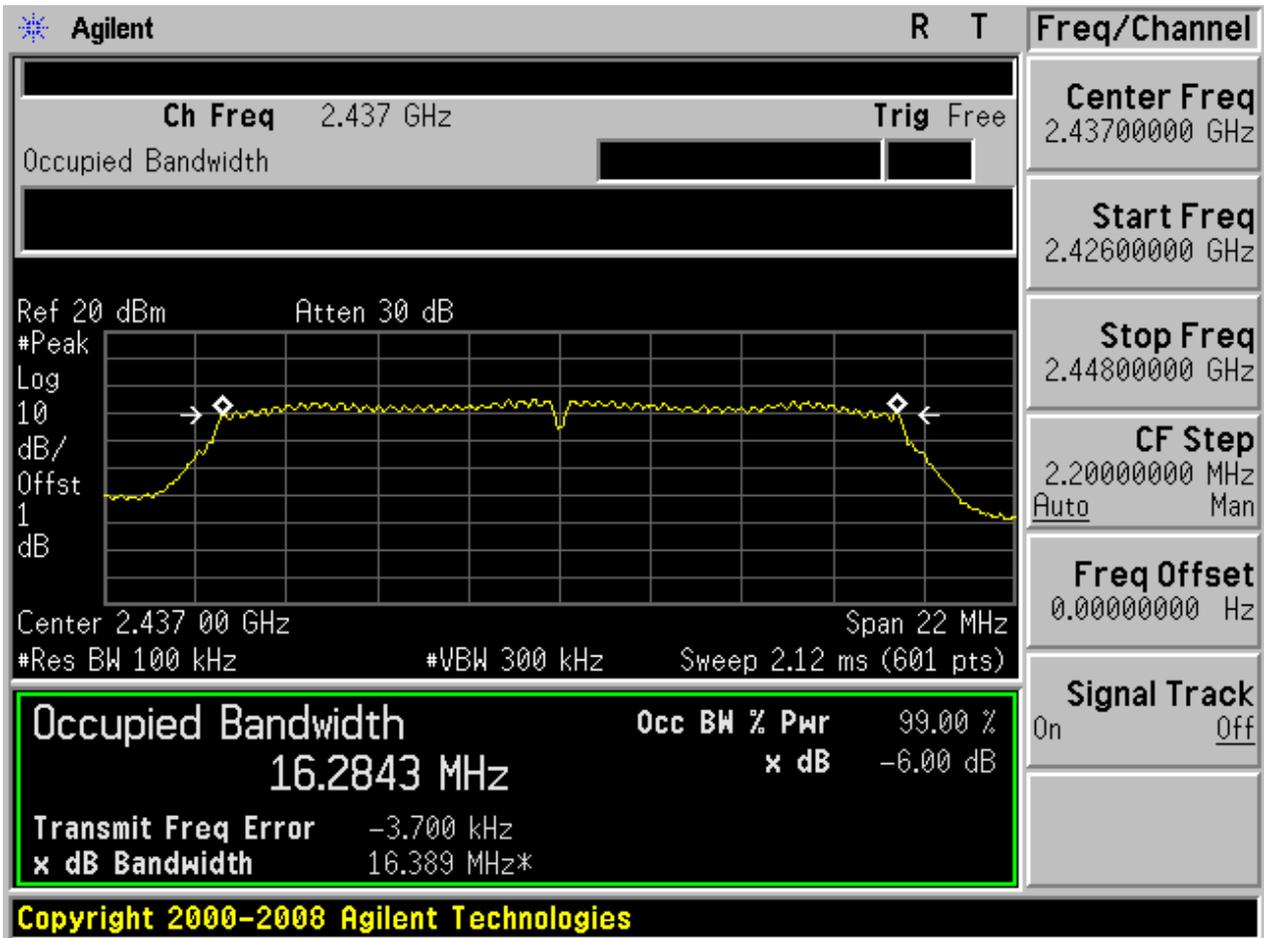


2.8 11G\_L@Ant 2



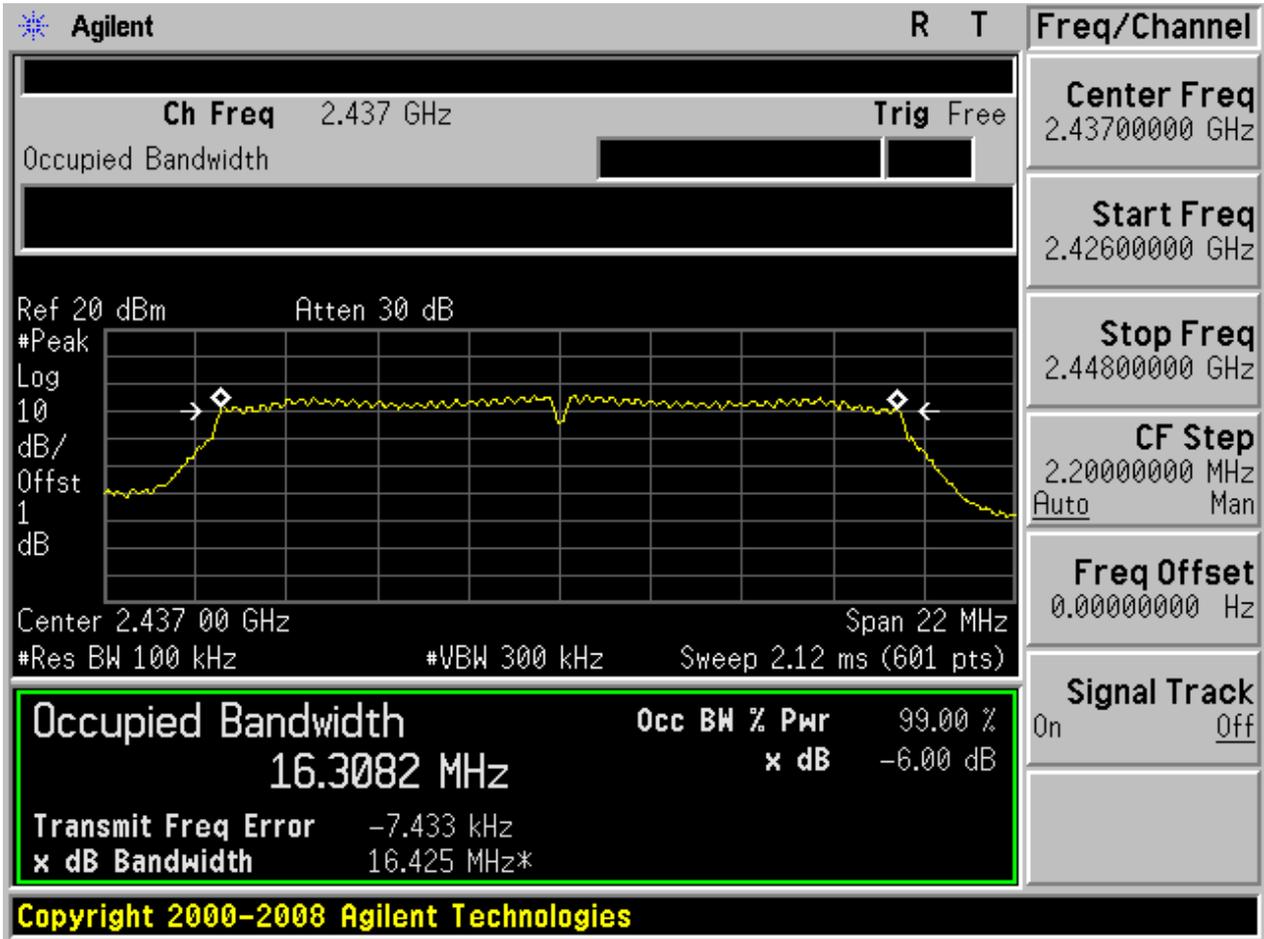


2.9 11G\_M@Ant 1



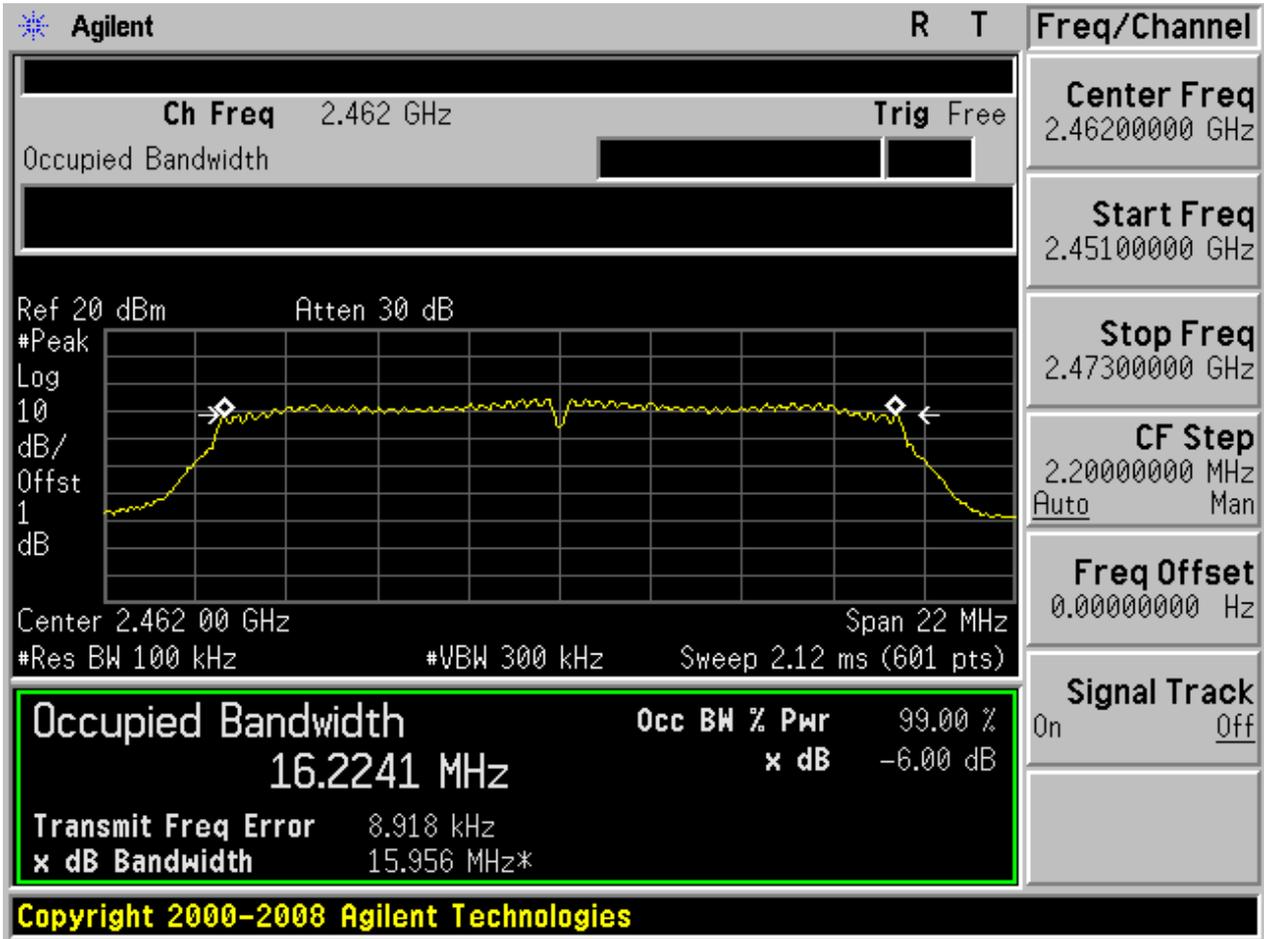


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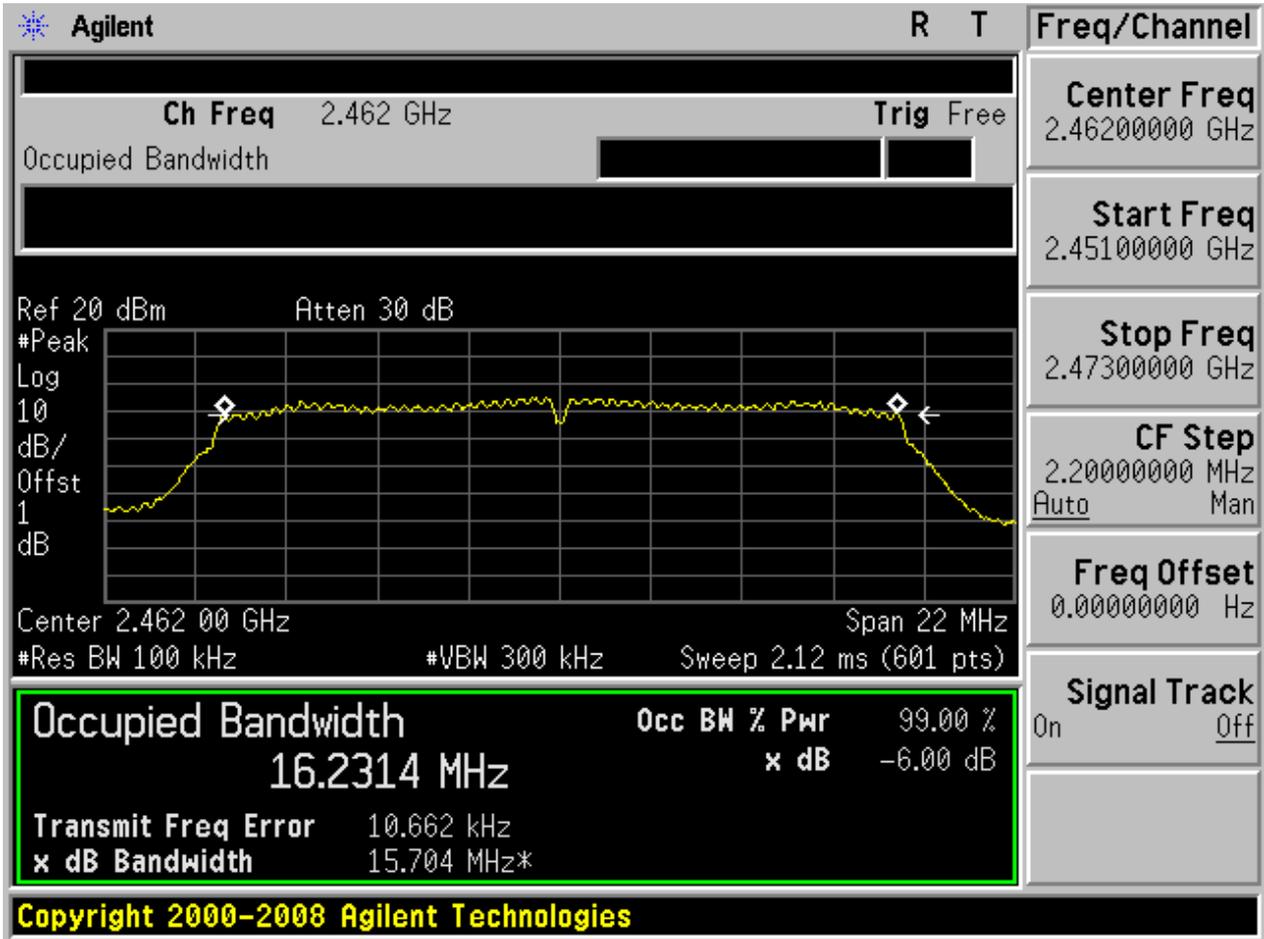


2.11 11G\_H@Ant 1



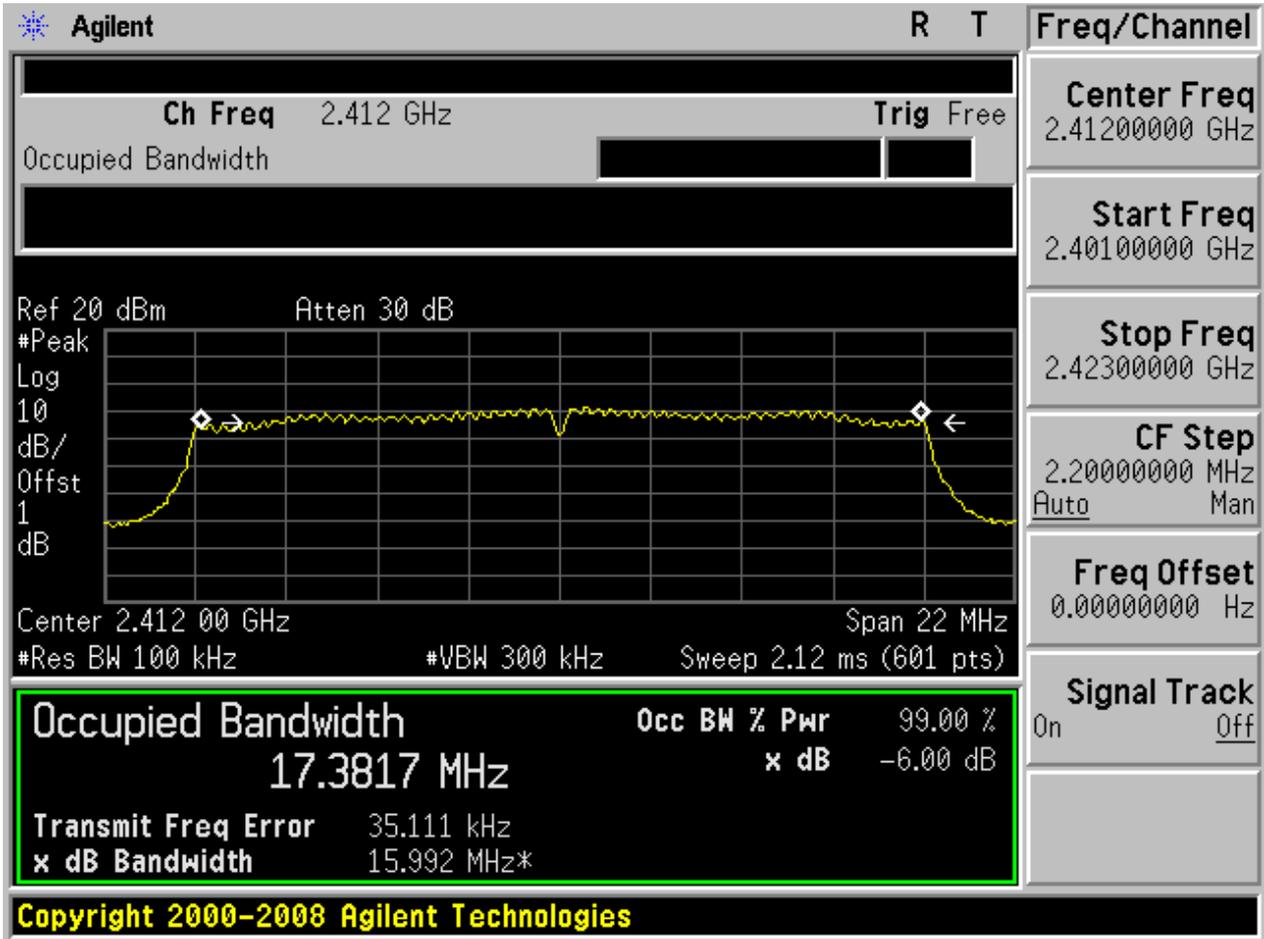


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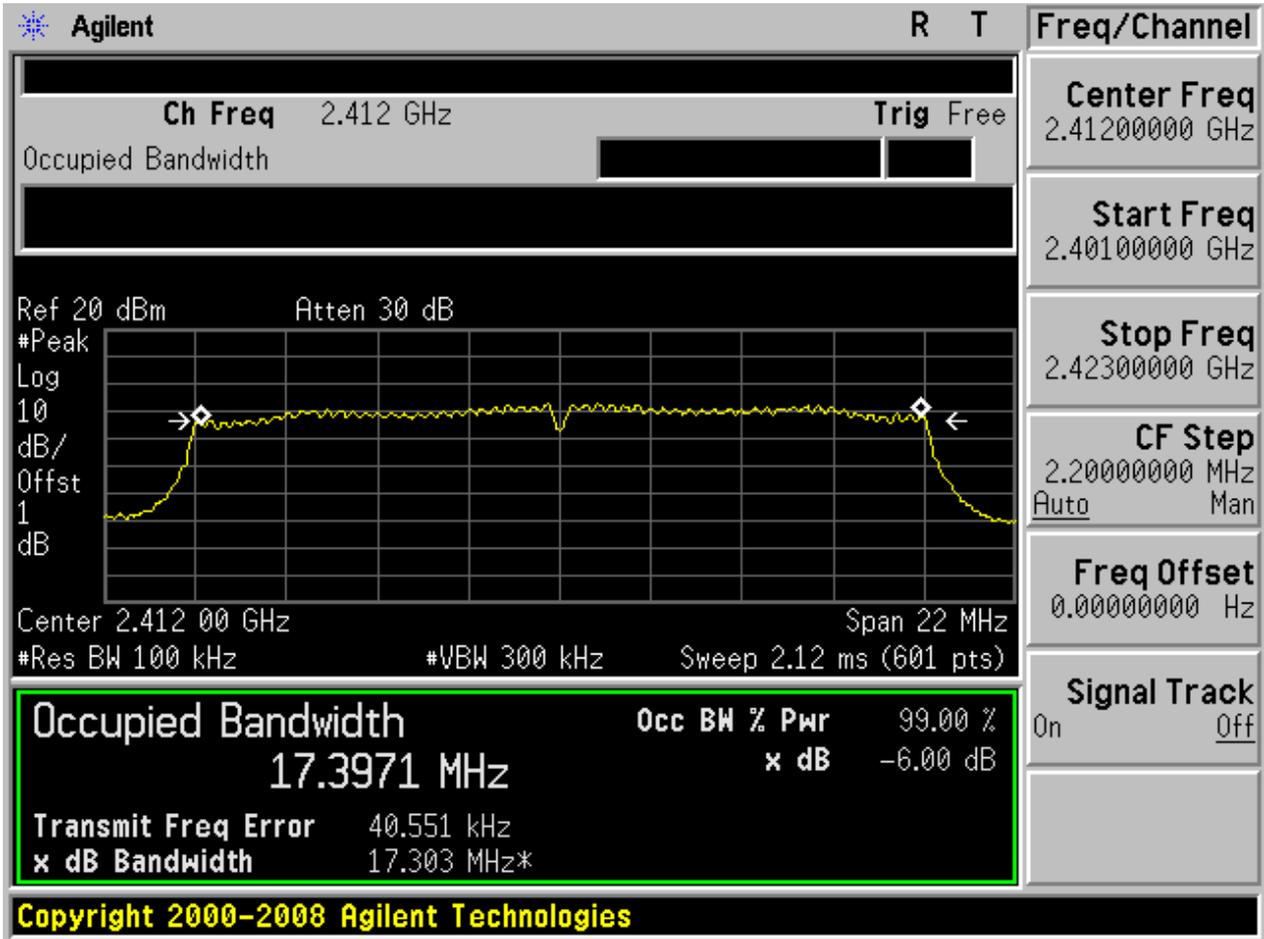


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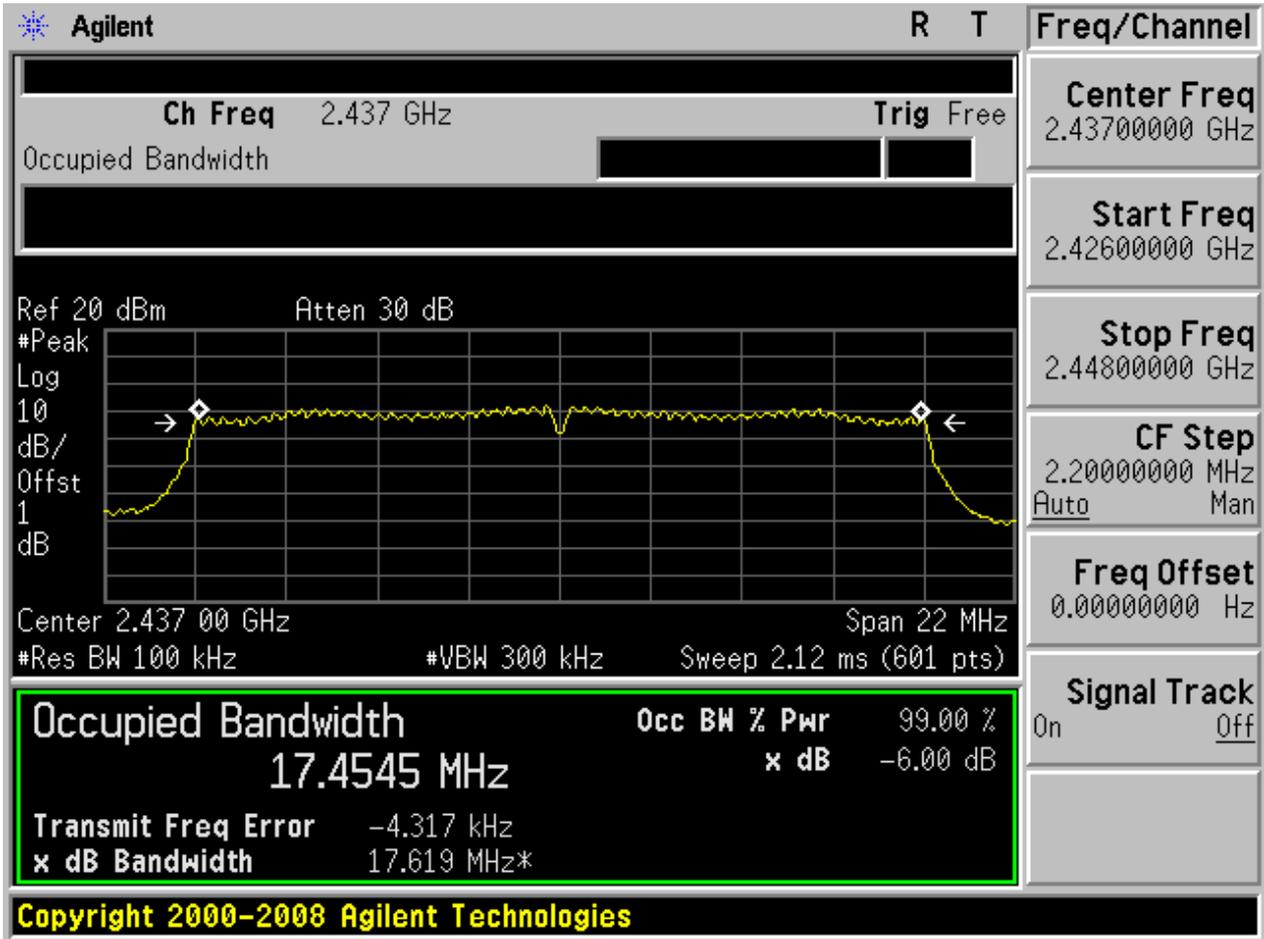


2.14 11N20\_L@Ant 2



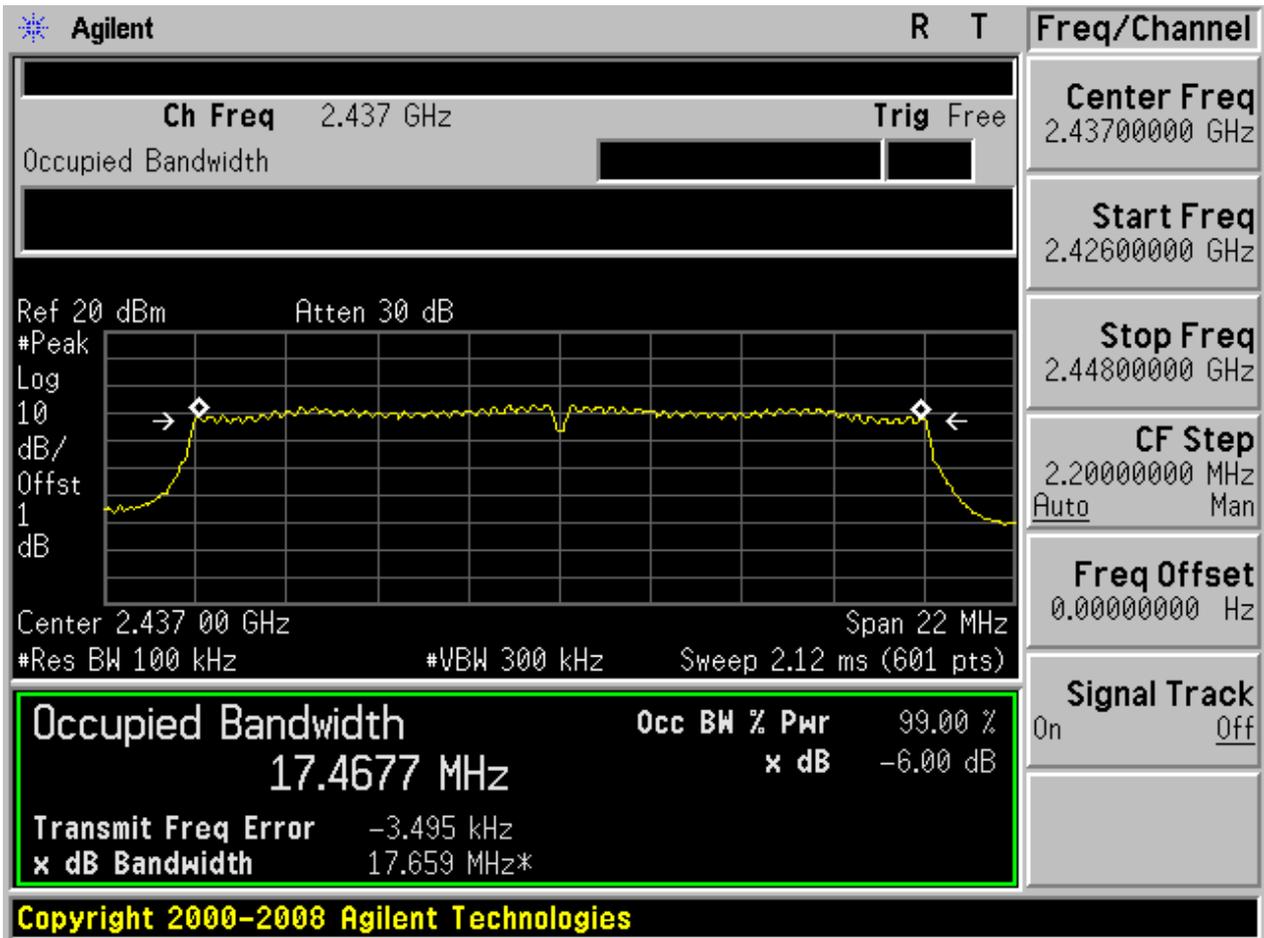


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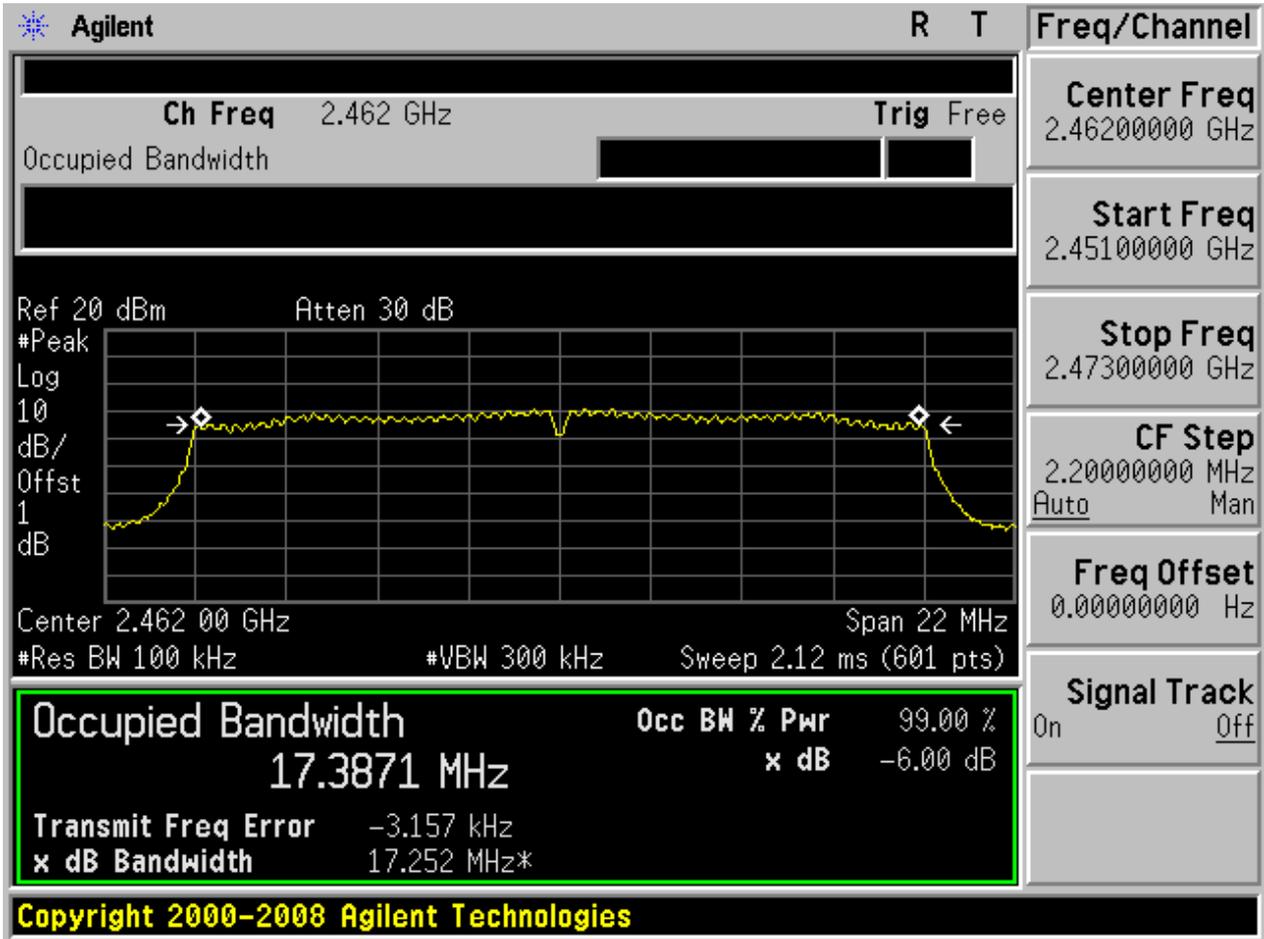


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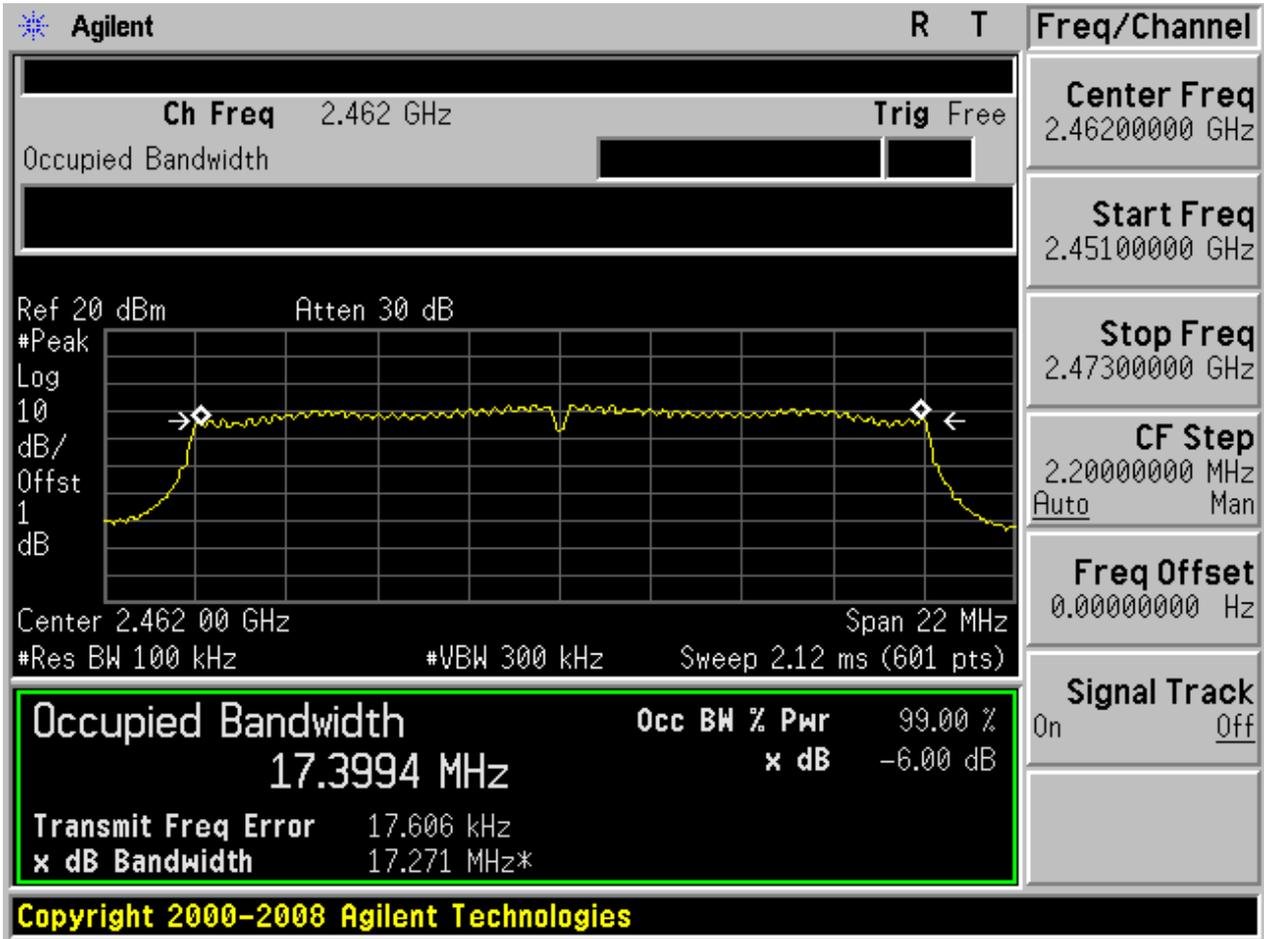


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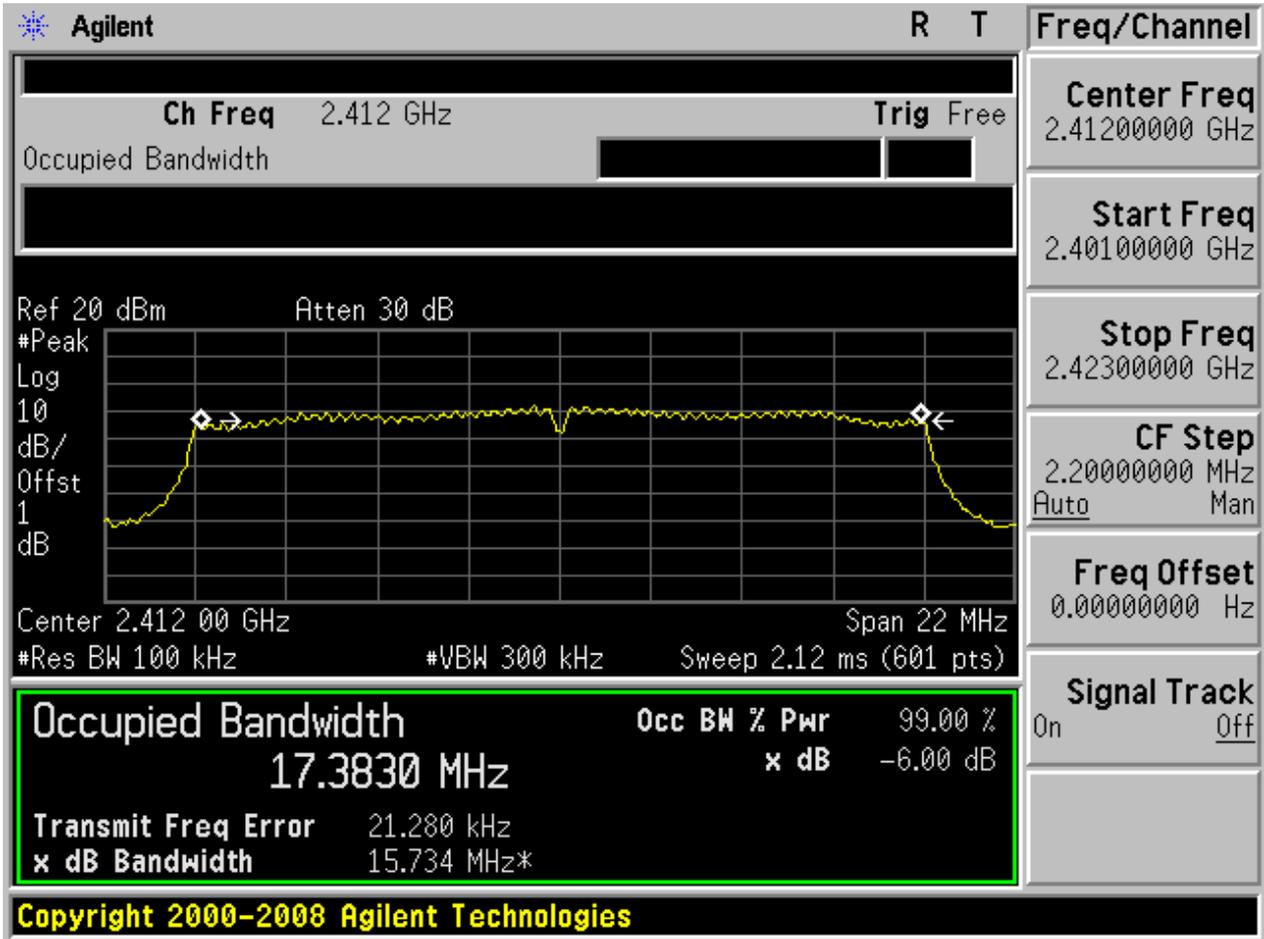


2.18 11N20\_H@Ant 2



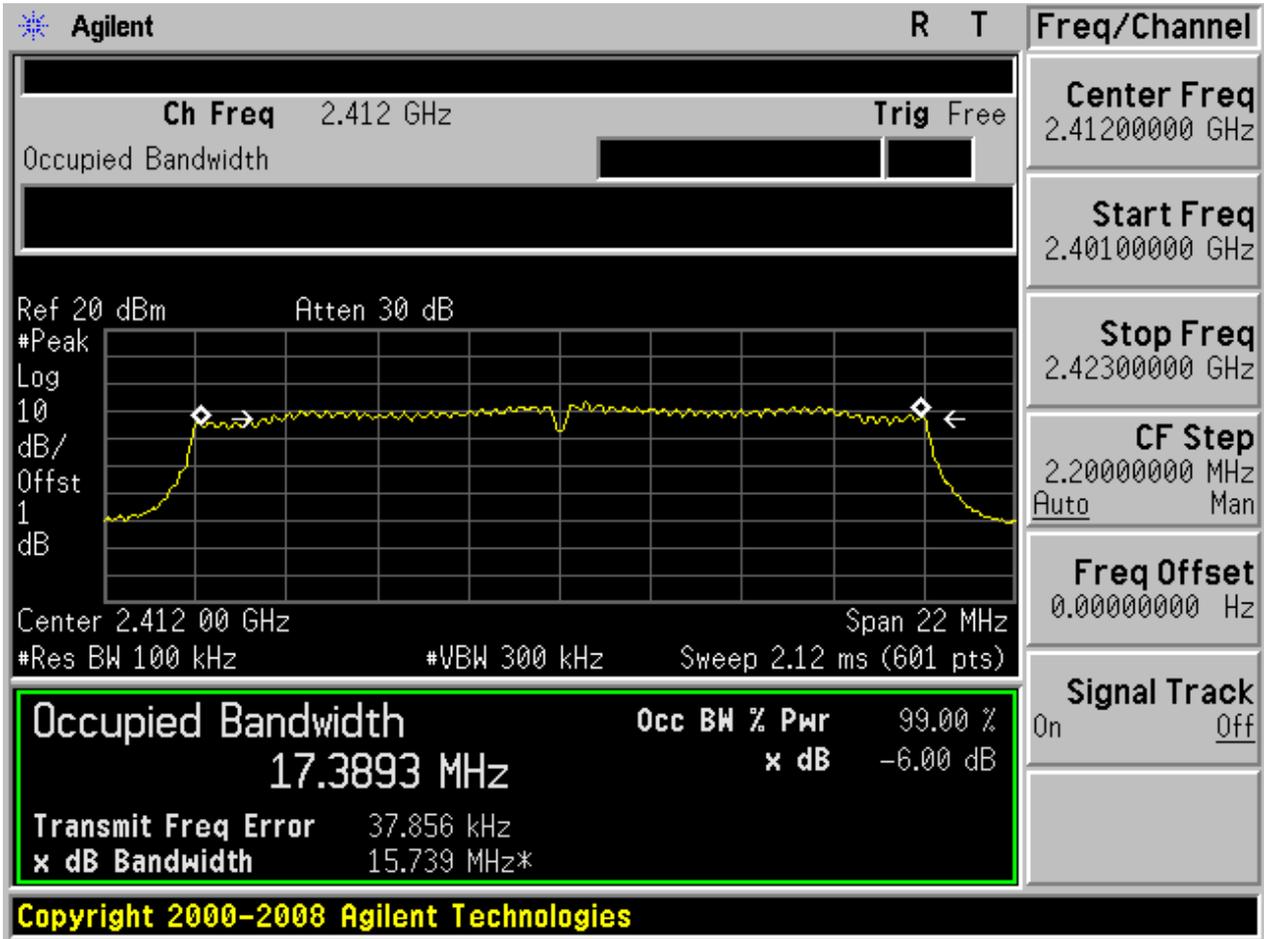


2.13 11N20m\_L@Ant 1



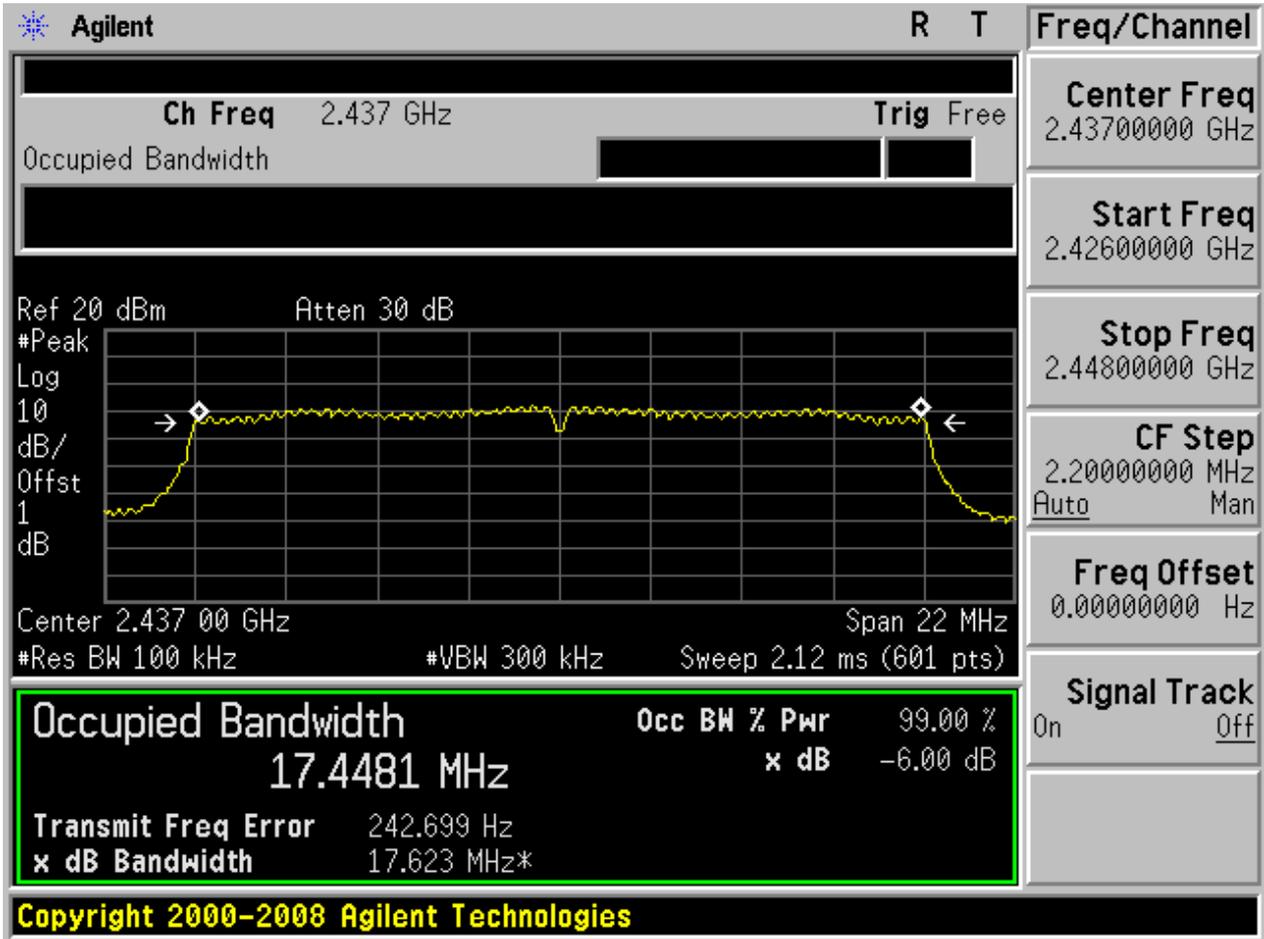


2.14 11N20m\_L@Ant 2



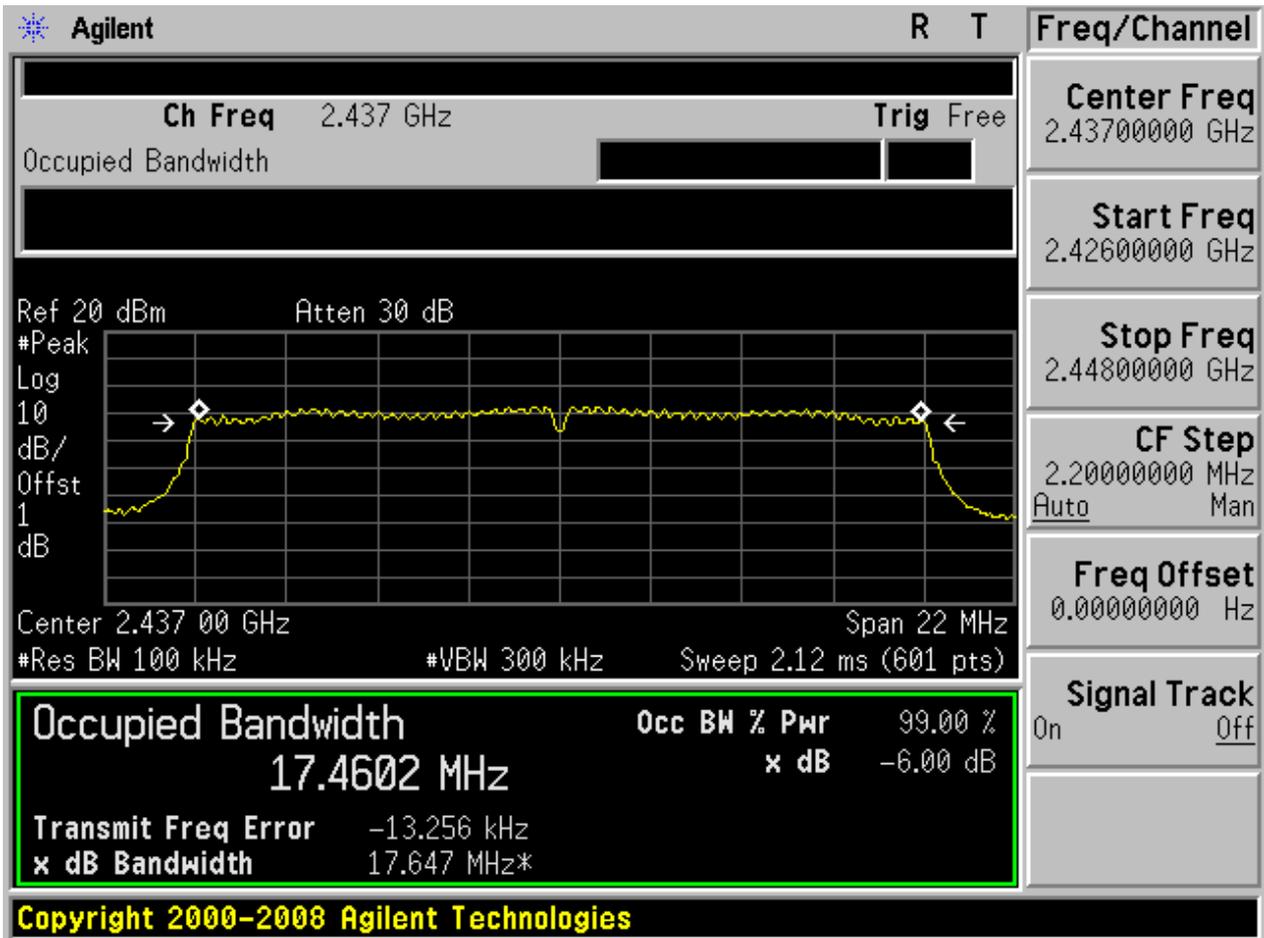


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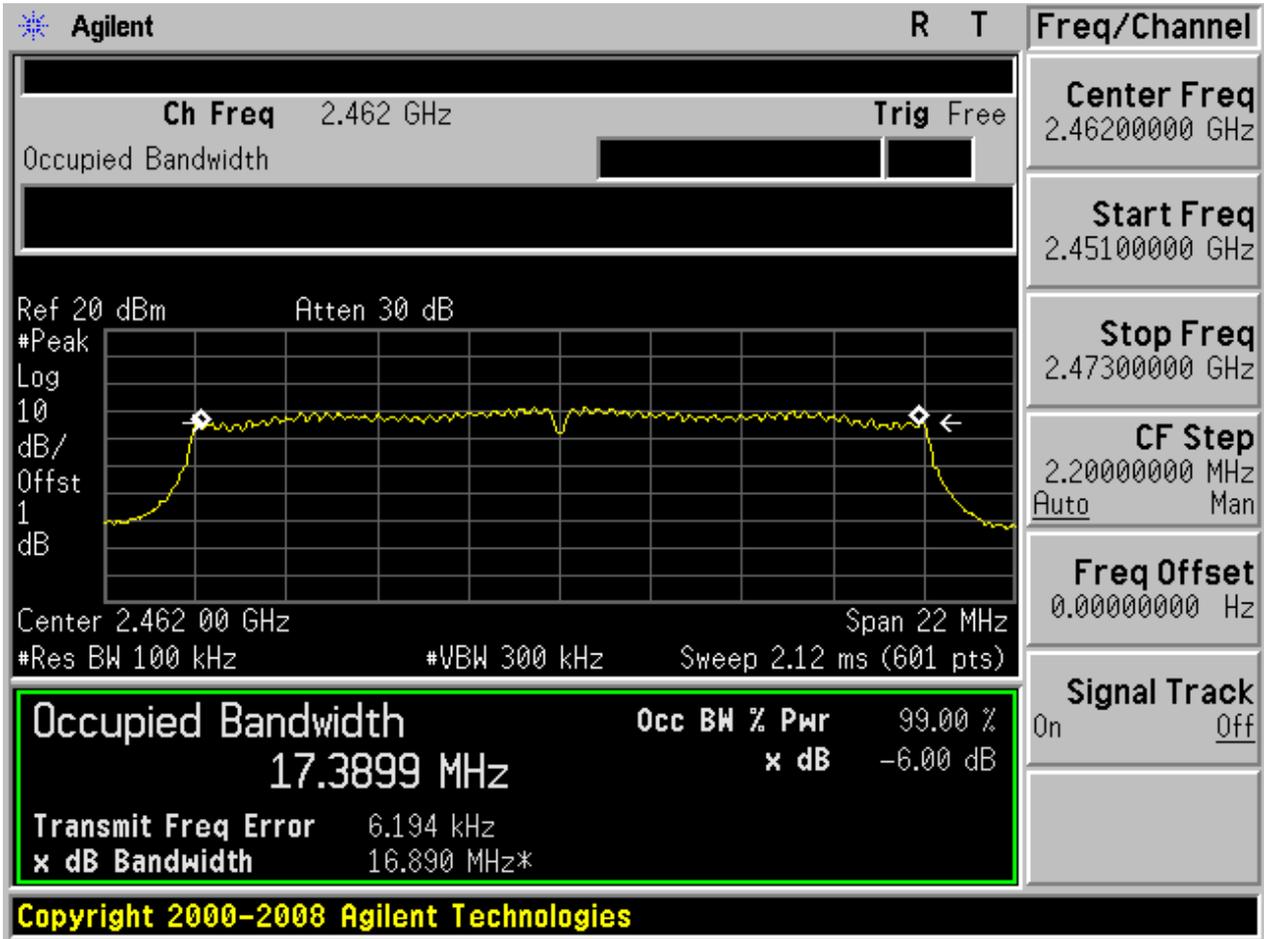


2.16 11N20m\_M@Ant 2



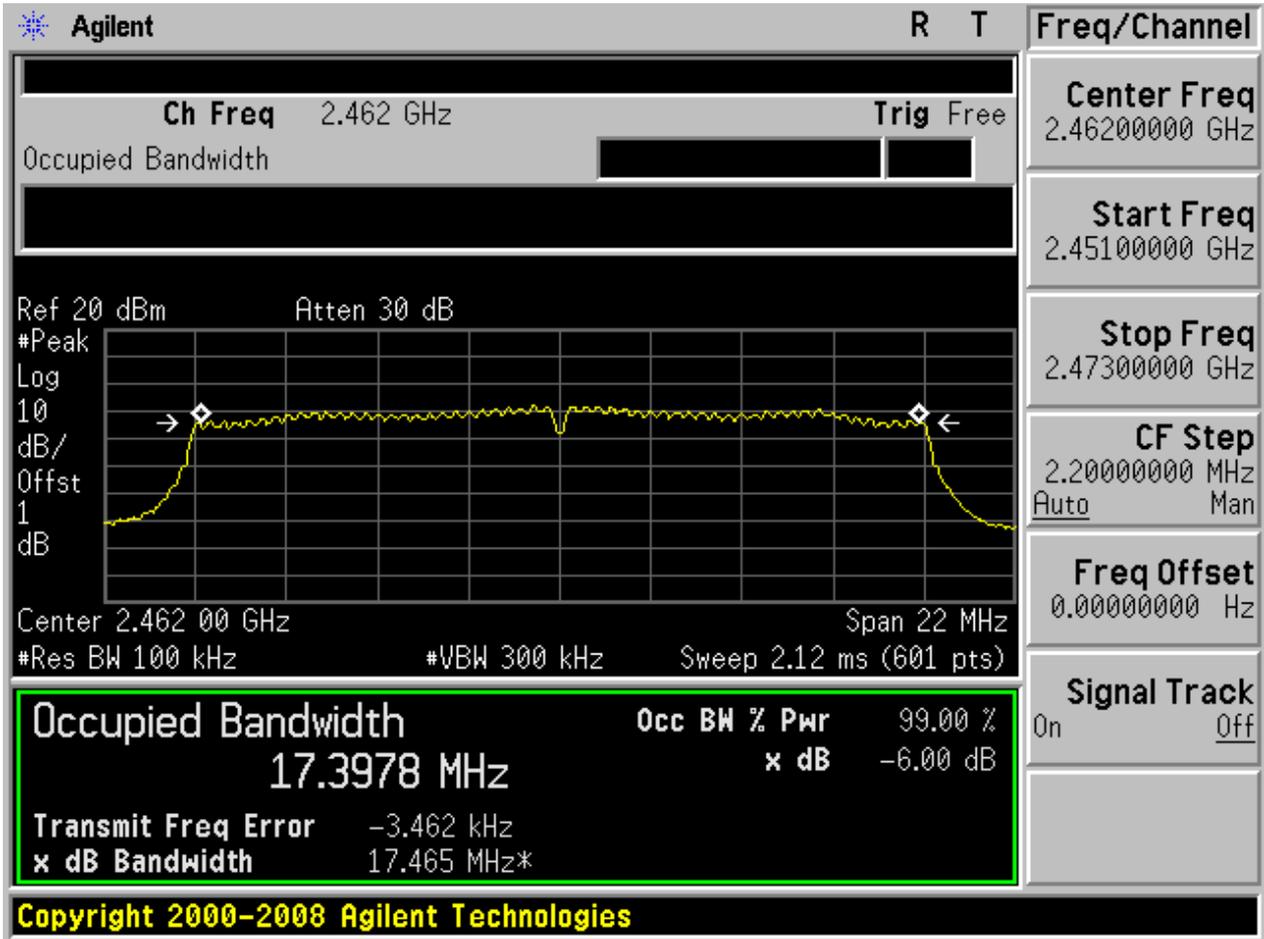


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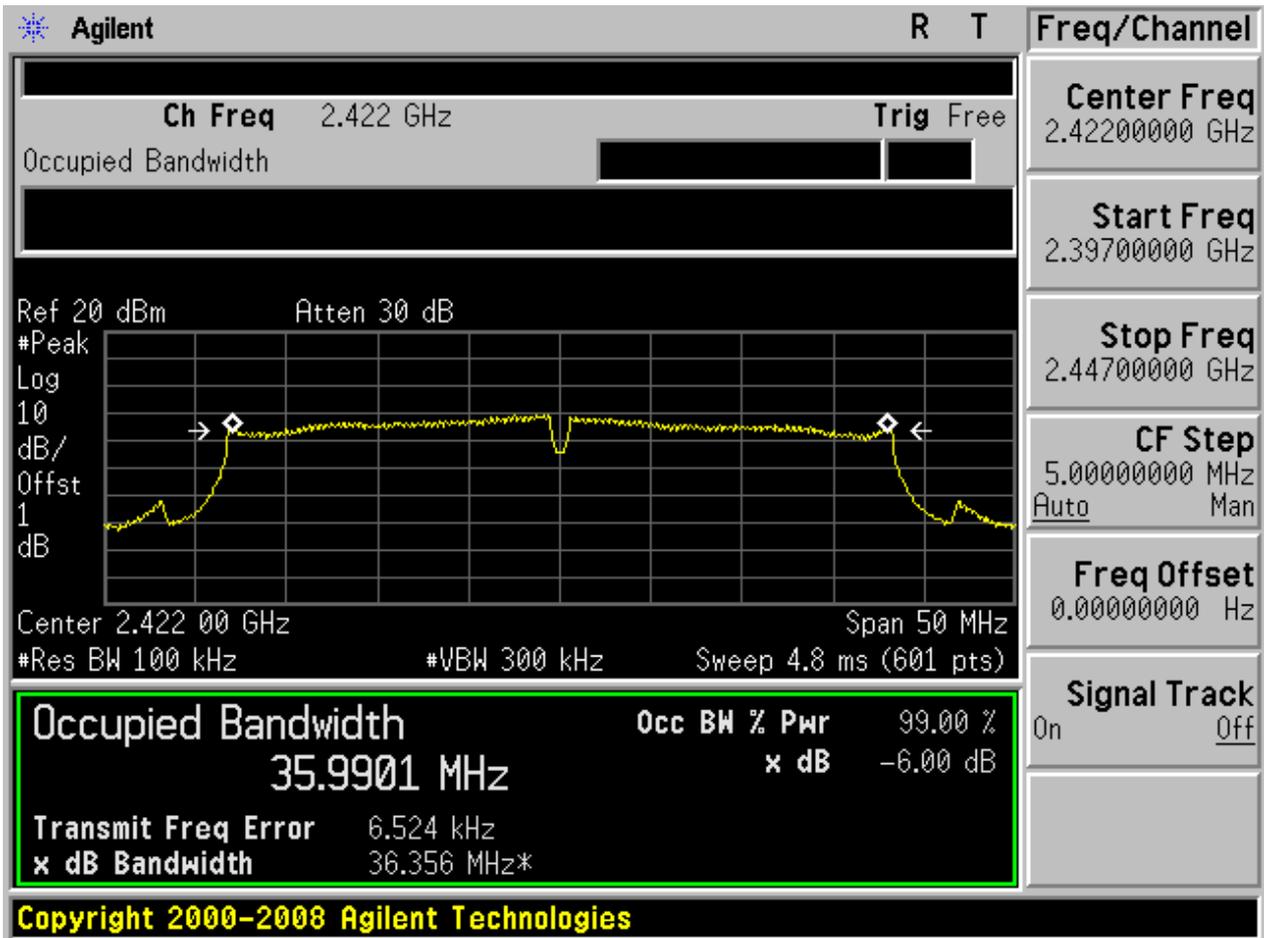


2.18 11N20m\_H@Ant 2



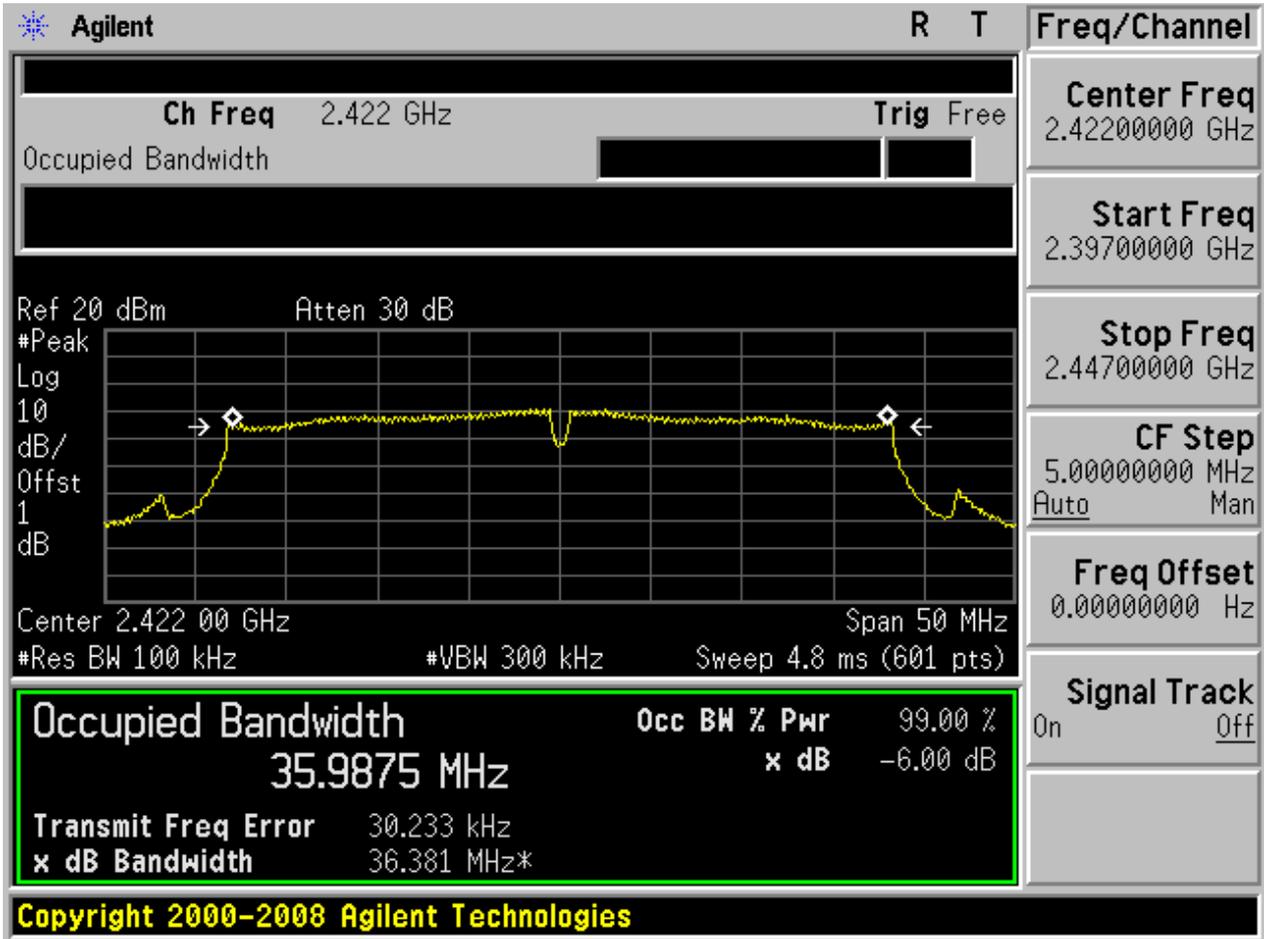


2.19 11N40\_L@Ant 1



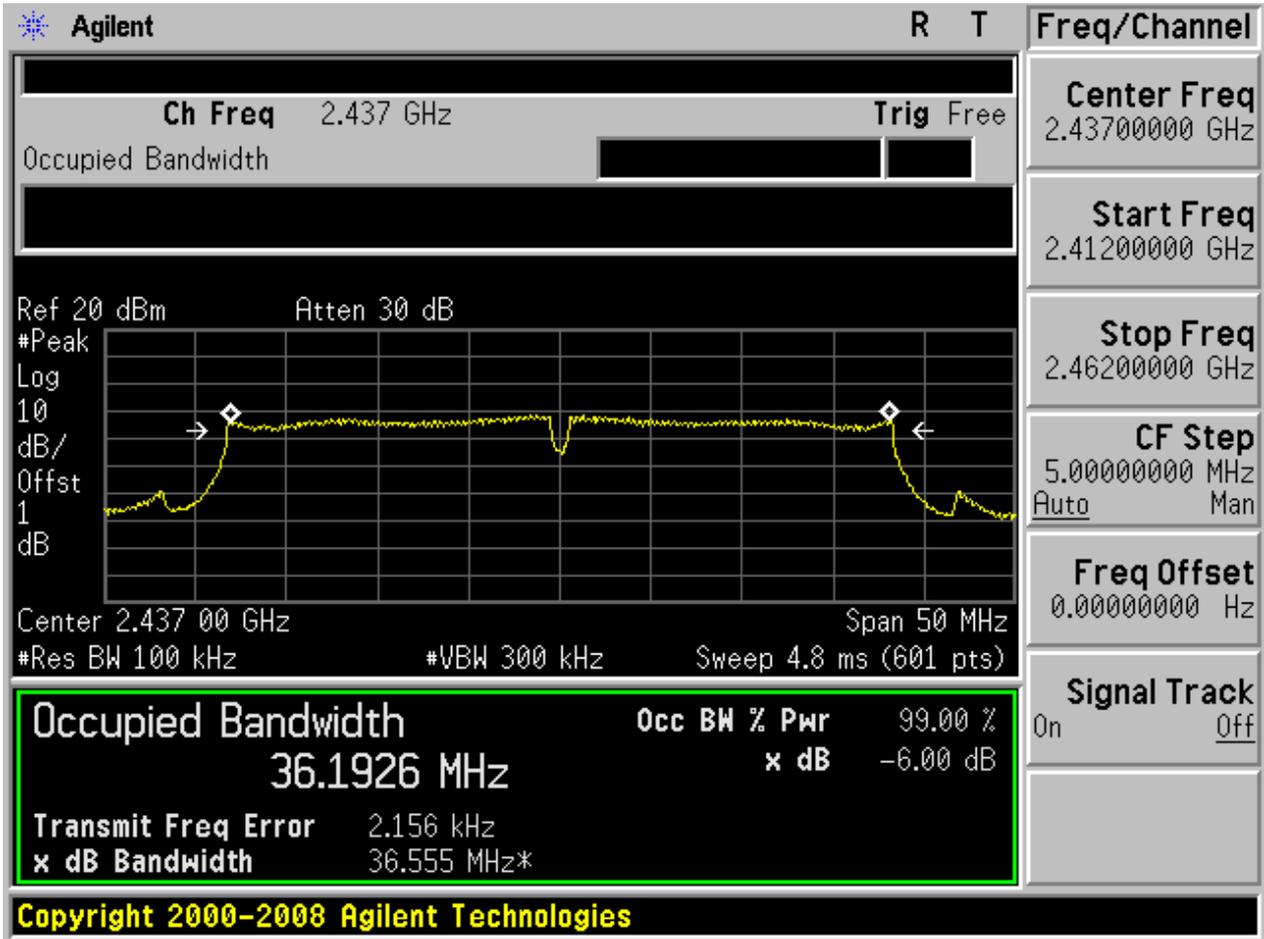


2.20 11N40\_L@Ant 2



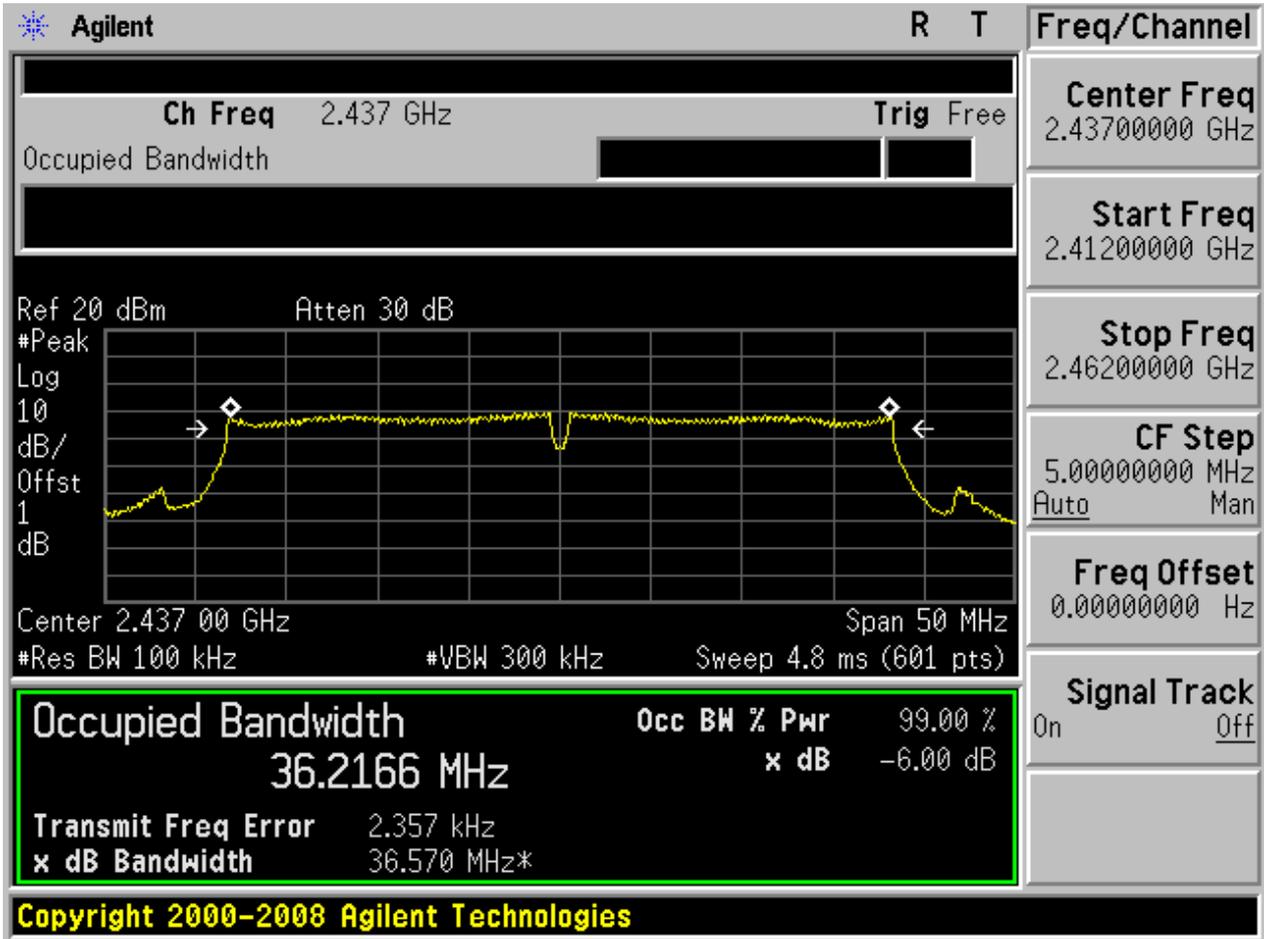


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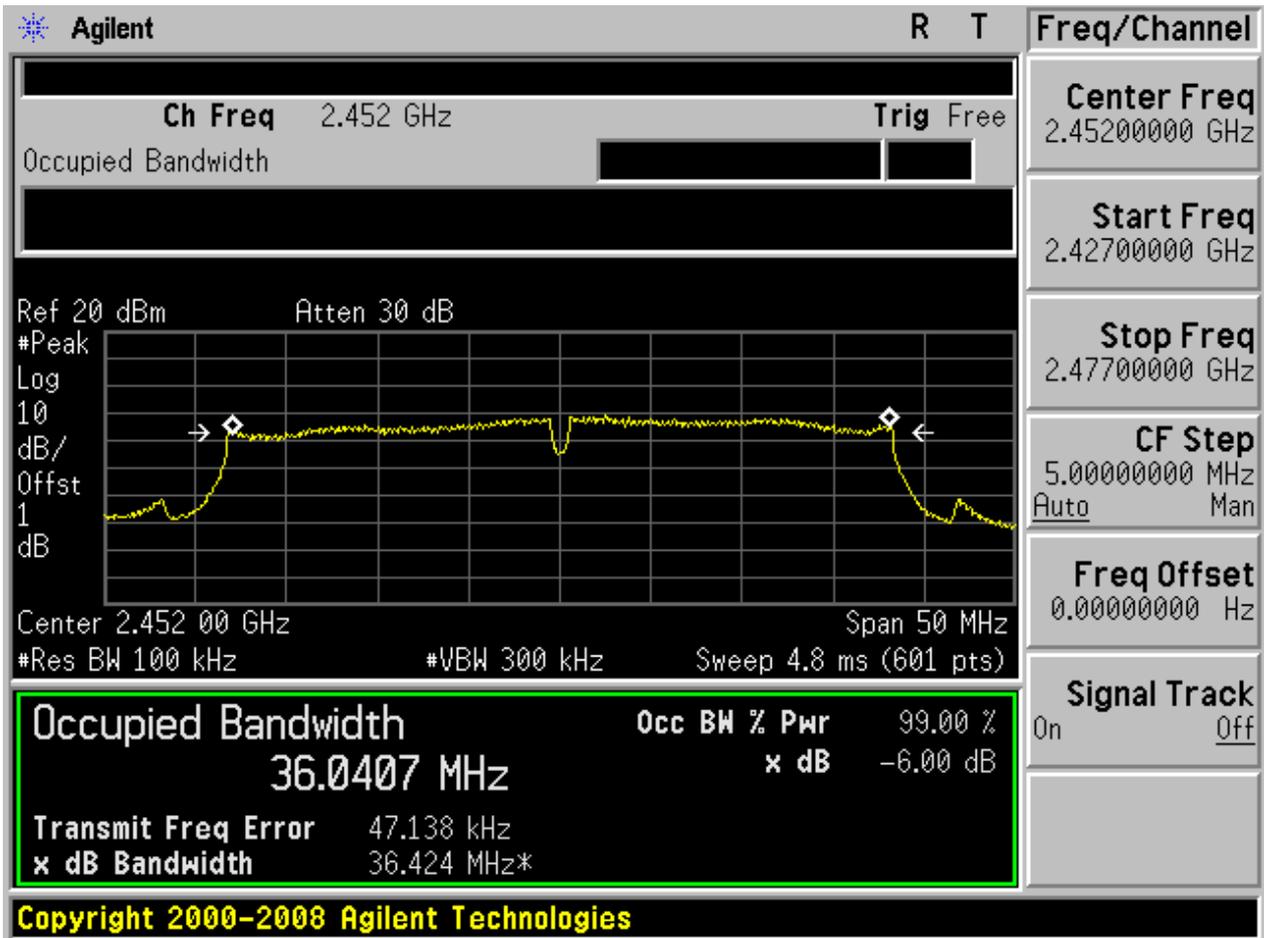


2.22 11N40\_M@Ant 2



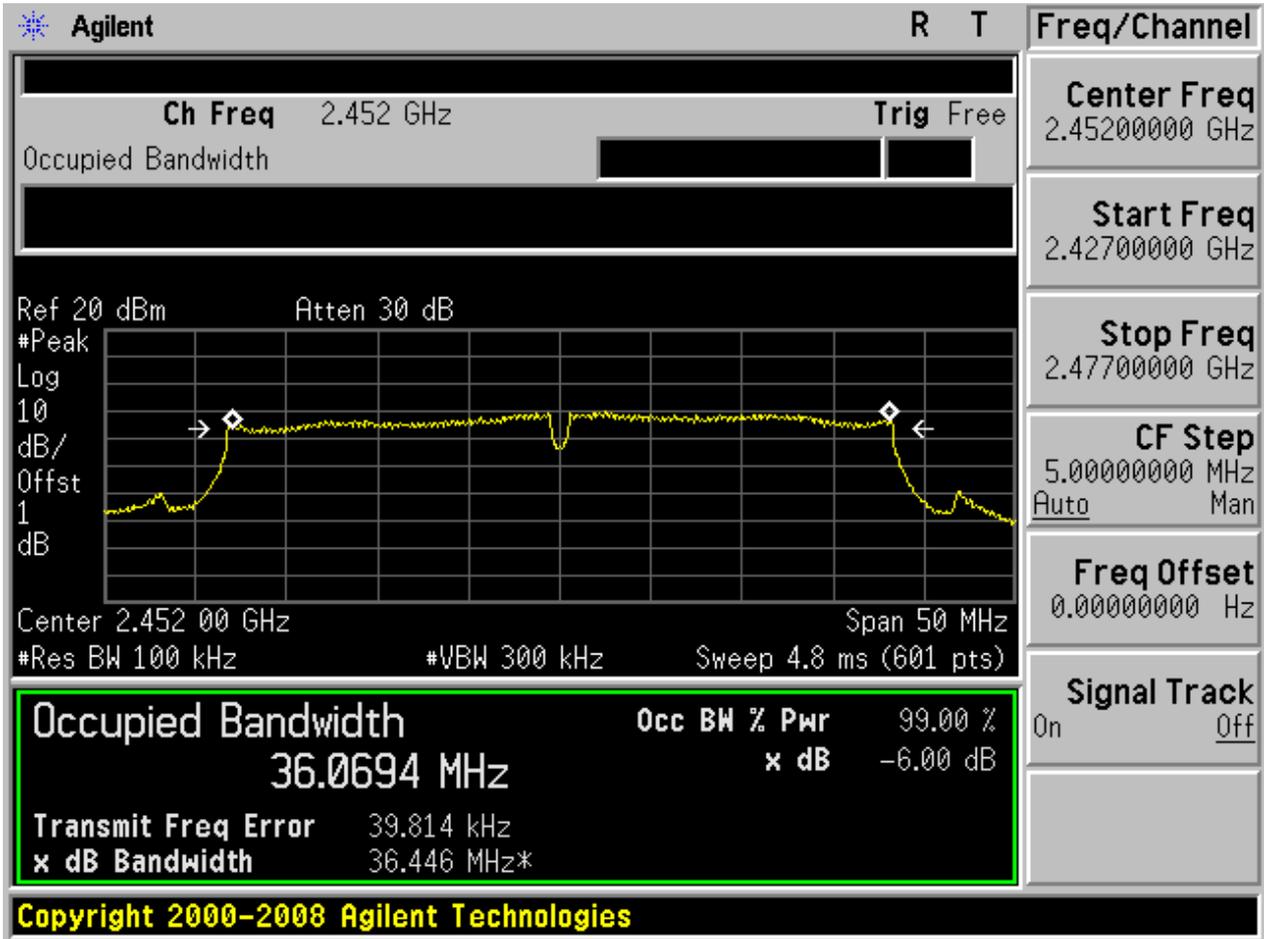


2.23 11N40\_H@Ant 1



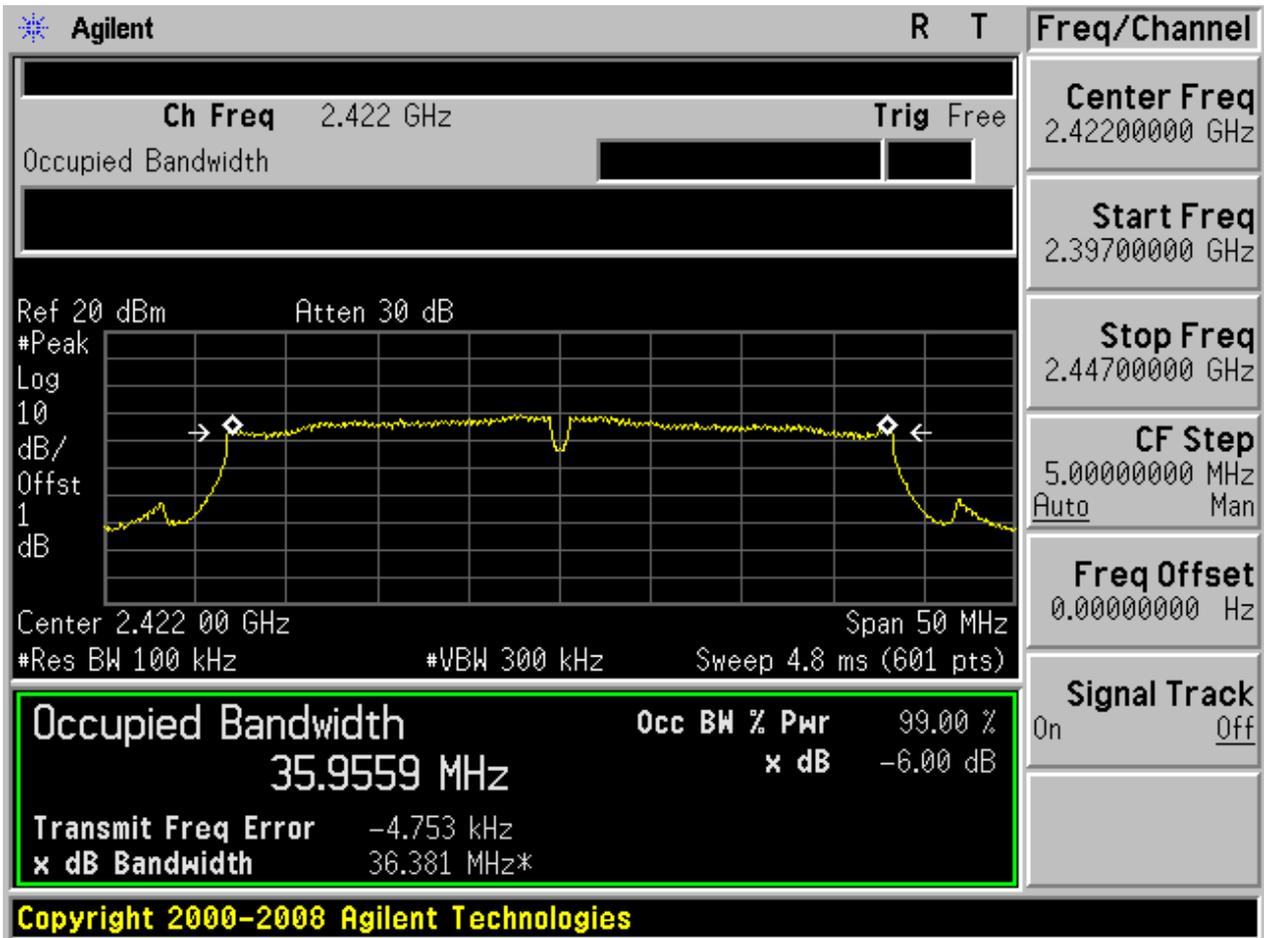


2.24 11N40\_H@Ant 2



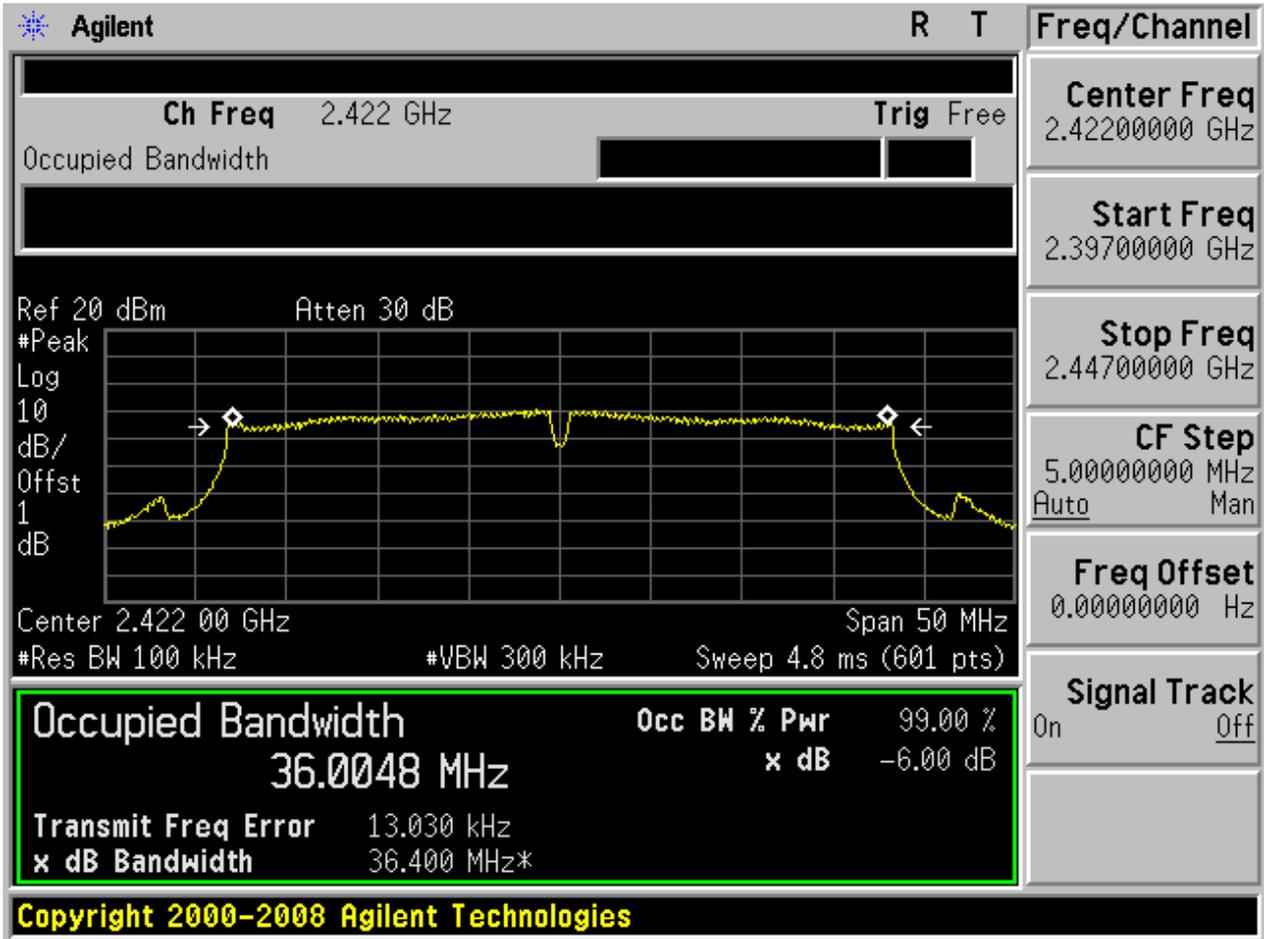


2.31 11N40m\_L@Ant 1



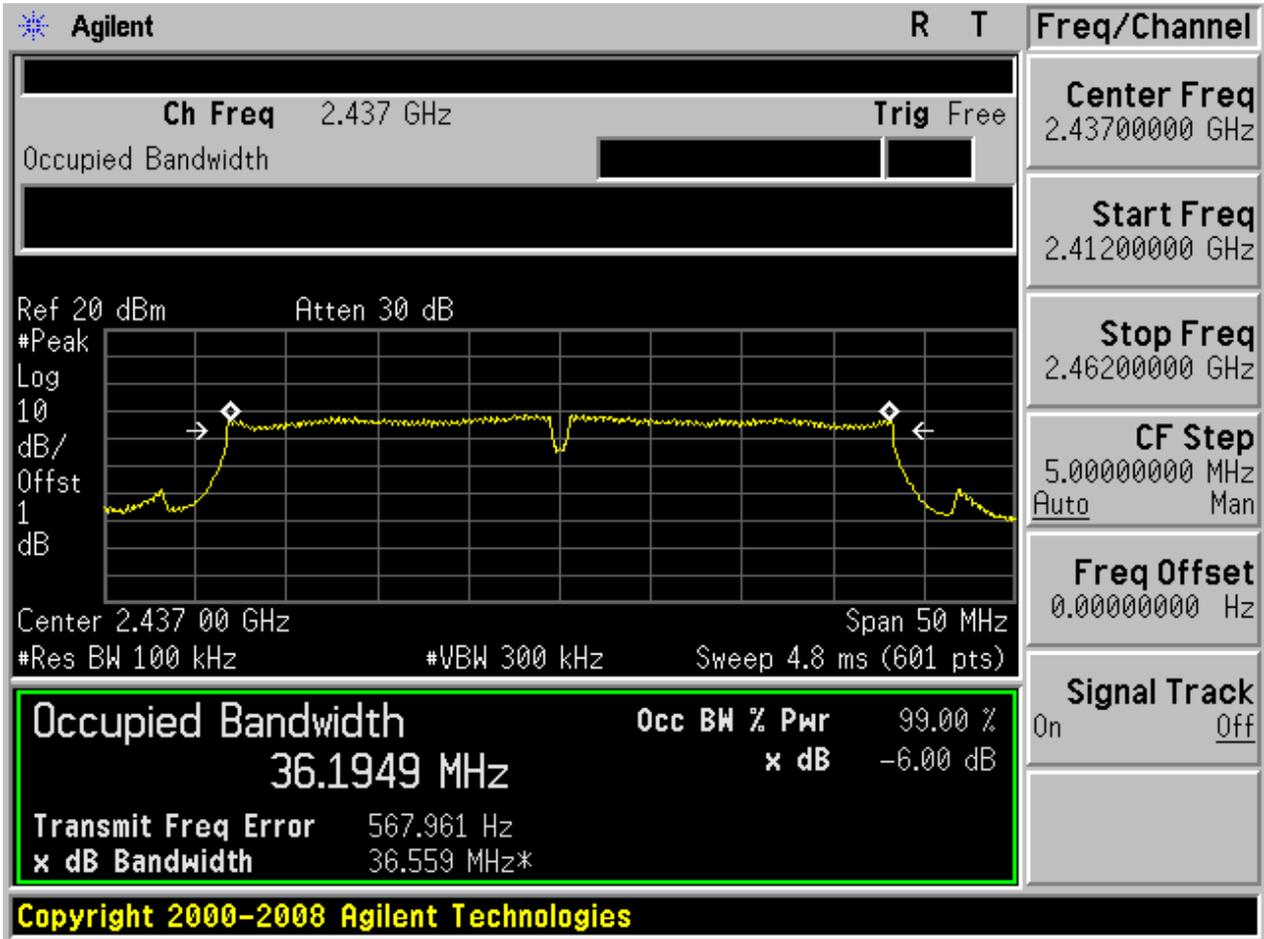


2.32 11N40m\_L@Ant 2



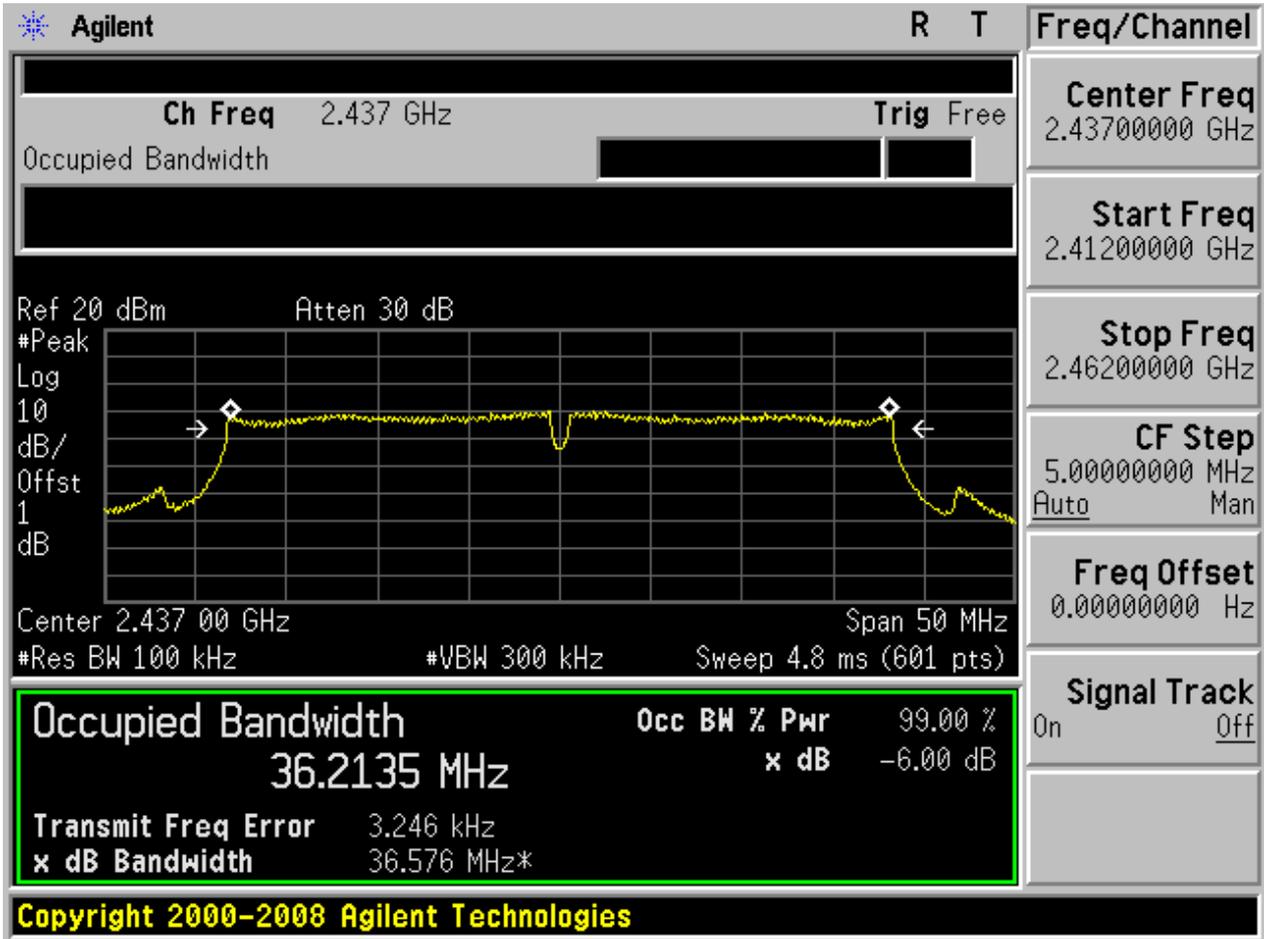


2.33 11N40m\_M@Ant 1



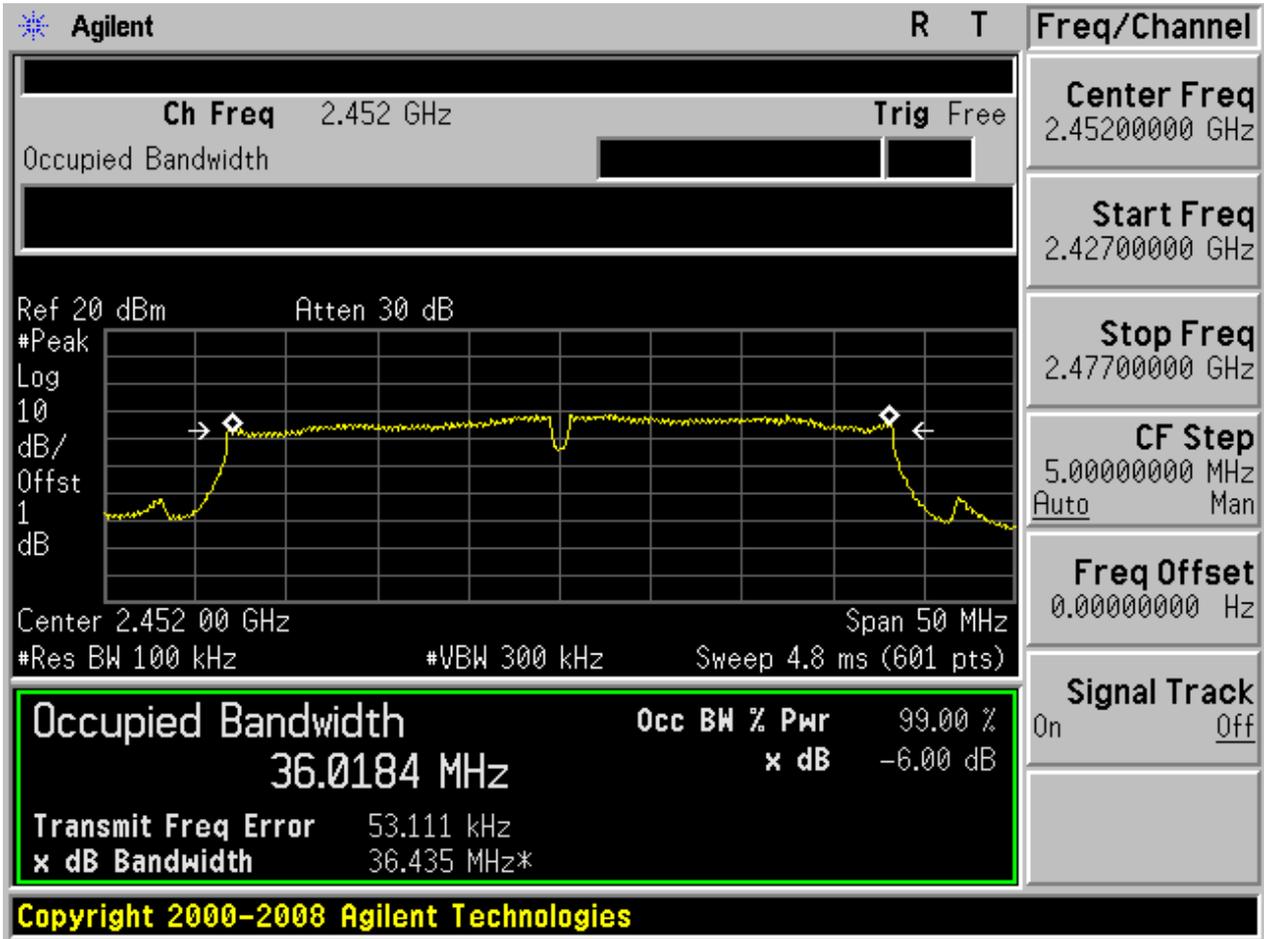


2.34 11N40m\_M@Ant 2



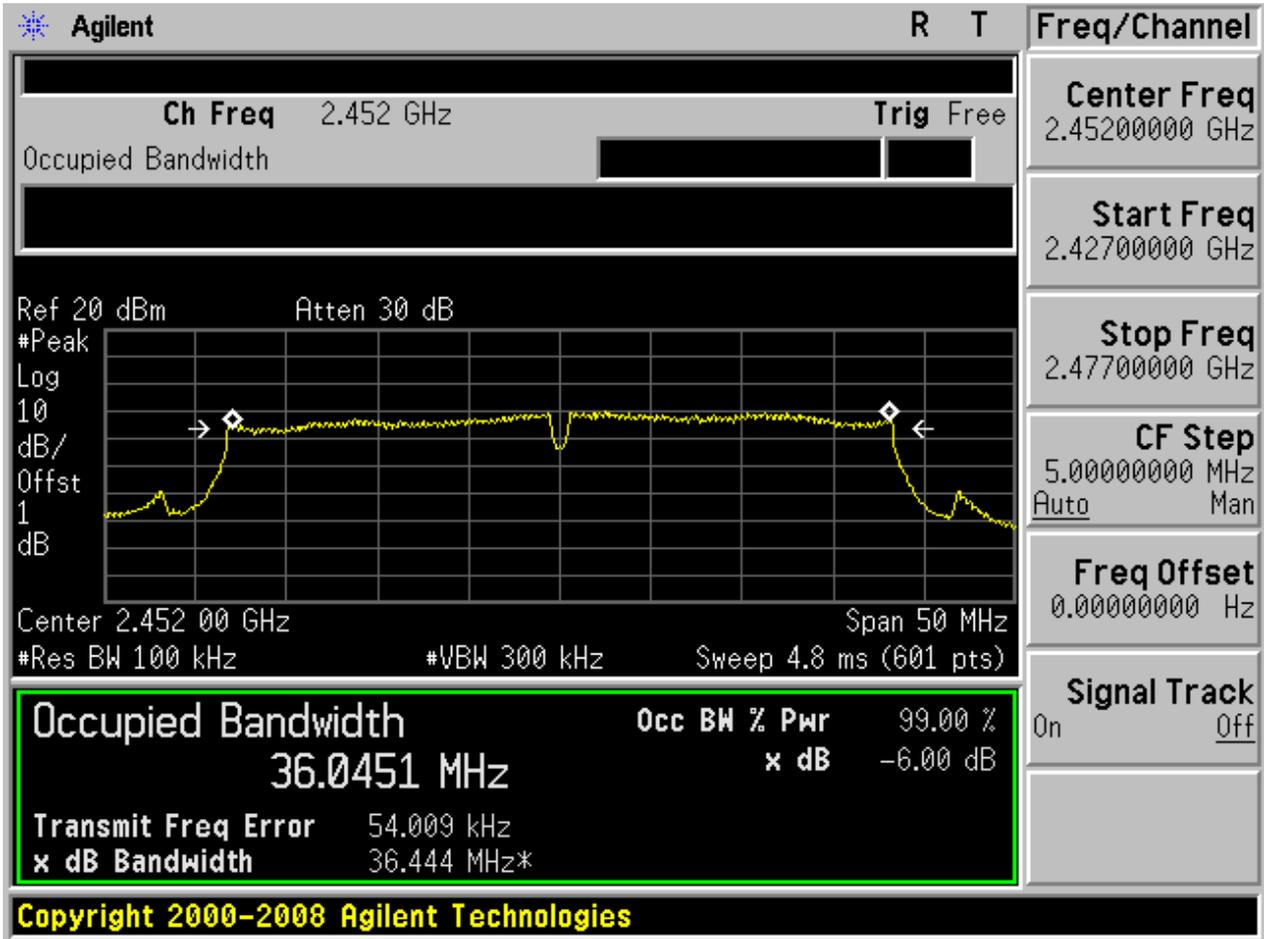


2.35 11N40m\_H@Ant 1





2.36 11N40m\_H@Ant 2





## Appendix B: Occupied Bandwidth

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

### Part I - Test Results

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



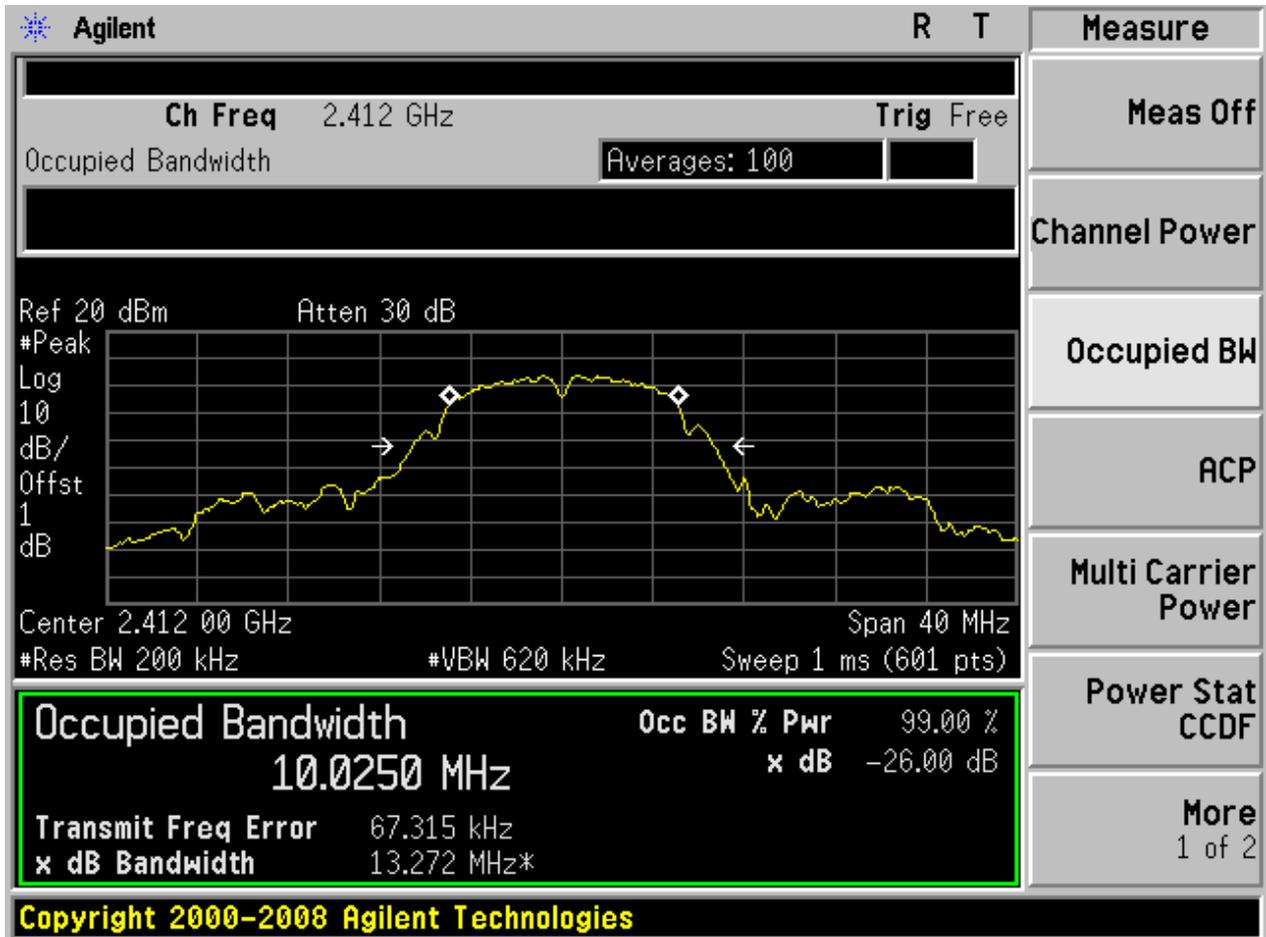
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Test Mode	Test Channel	Frequency[MHz]	Ant	Occupied Bandwidth [MHz]	Verdict
11N40m	H	2452	Ant 1	36.03	pass
11N40m	H	2452	Ant 2	36.01	pass

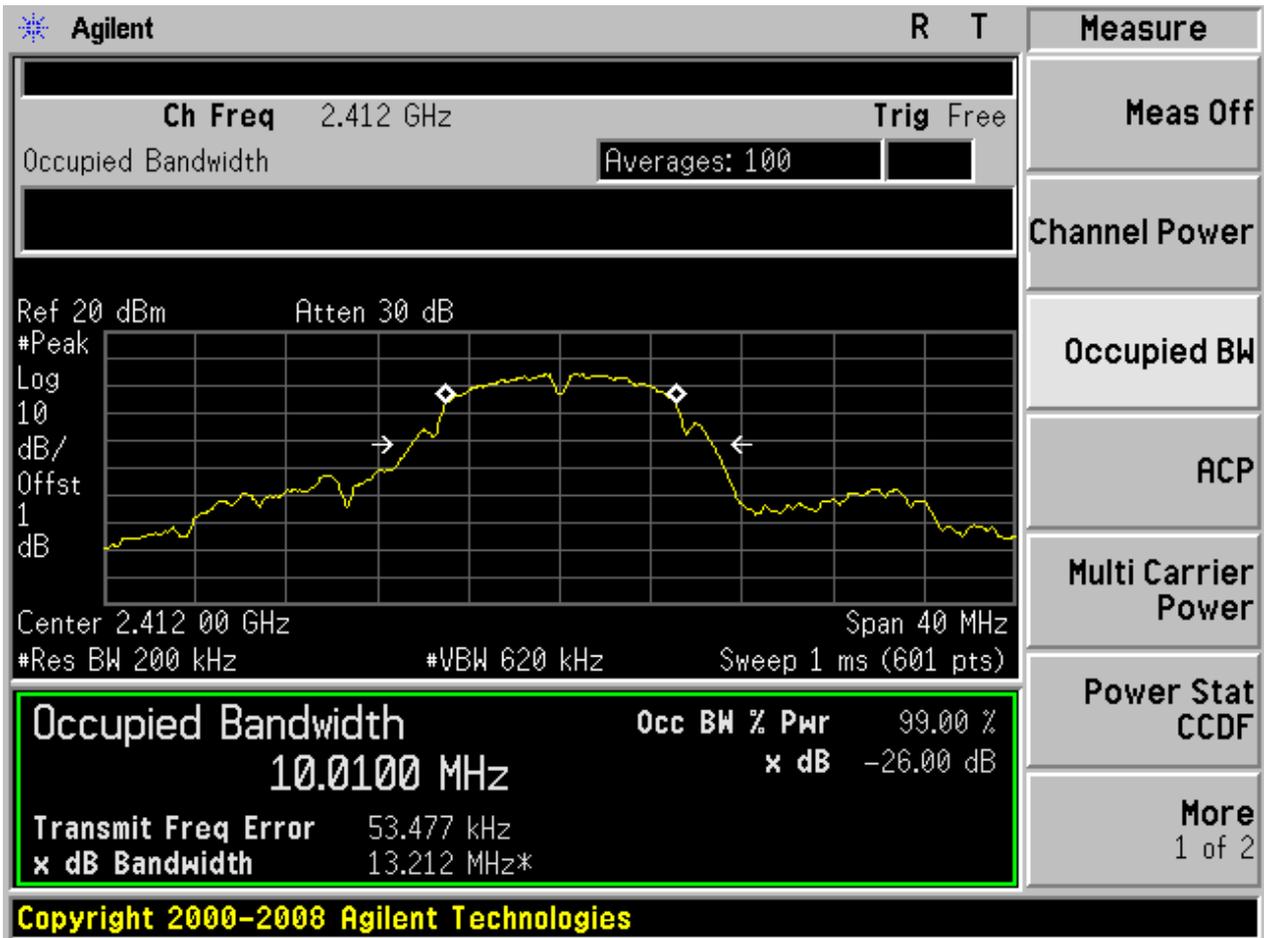
Part II - Test Plots

2.1 11B\_L@Ant 1



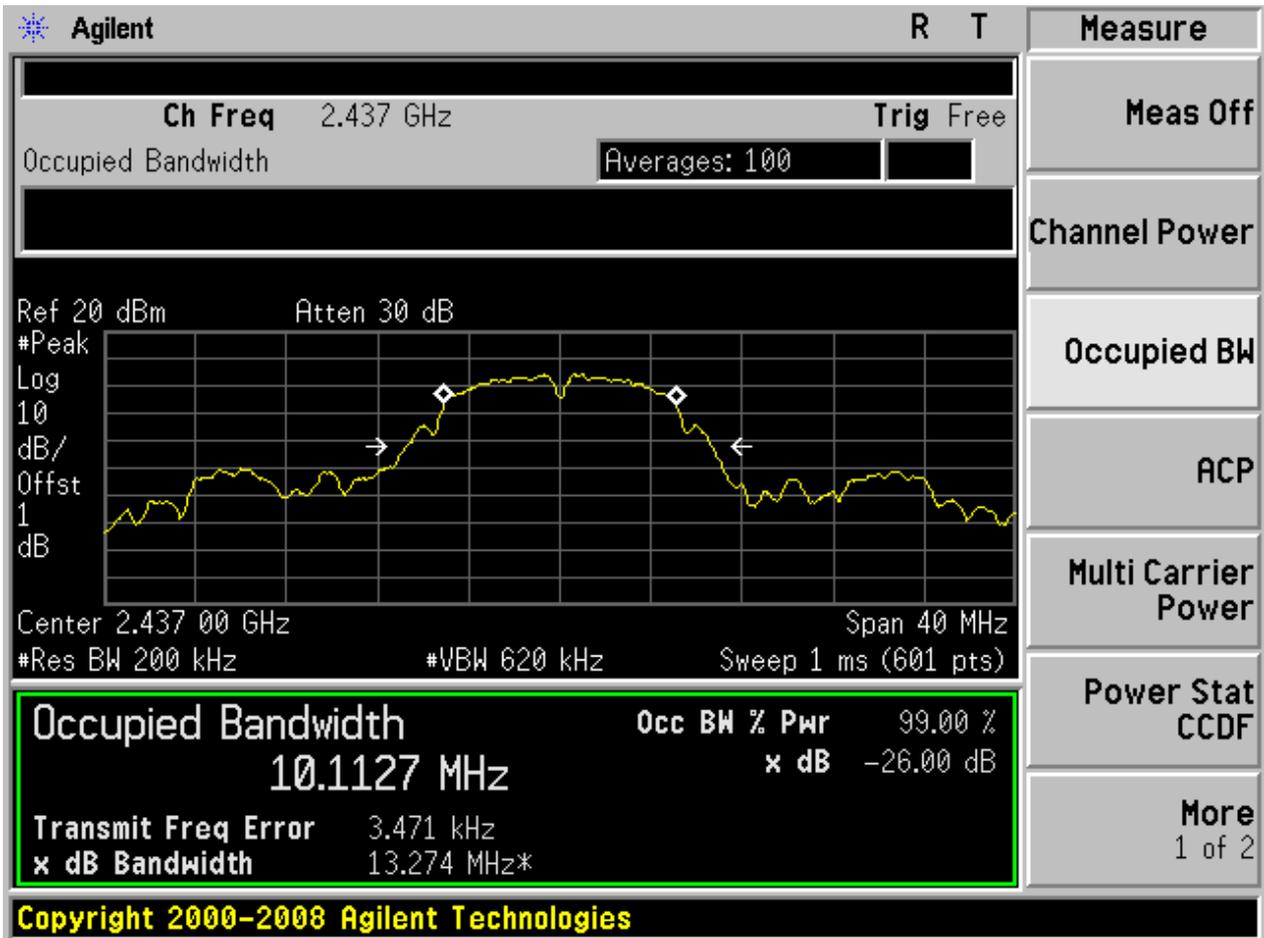


2.2 11B\_L@Ant 2





2.3 11B\_M@Ant 1





2.4 11B\_M@Ant 2

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 %
<b>10.1269 MHz</b>	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b> 70.792 Hz	
<b>x dB Bandwidth</b> 13.217 MHz*	

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

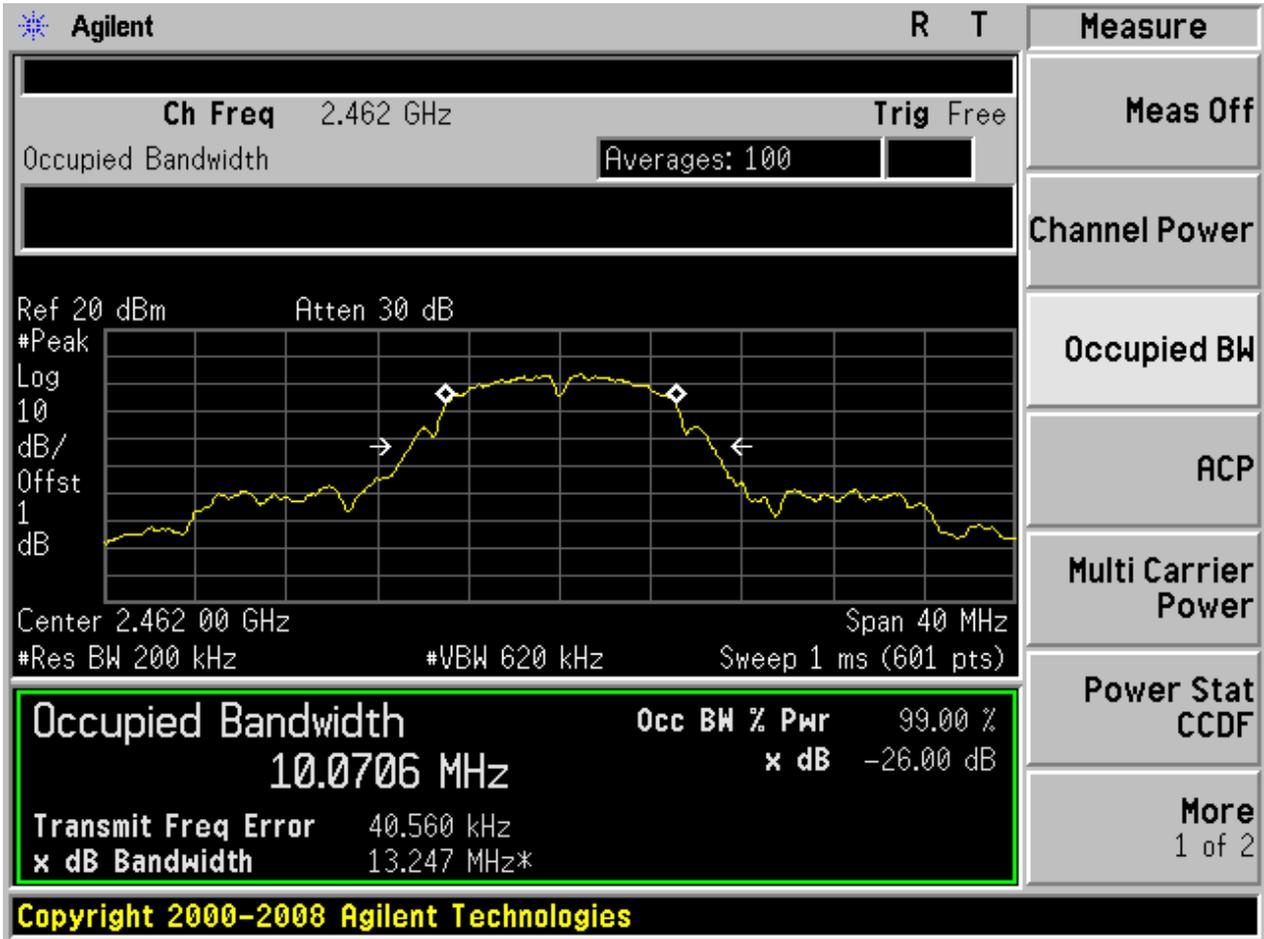
Multi Carrier Power

Power Stat CCDF

More  
1 of 2



2.5 11B\_H@Ant 1





2.6 11B\_H@Ant 2

Agilent R T

**Ch Freq** 2.462 GHz **Trig** Free

Occupied Bandwidth Averages: 100

---

Ref 20 dBm Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
1  
dB

Center 2.462 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>10.0103 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	18.771 kHz	
<b>x dB Bandwidth</b>	13.078 MHz*	

**Measure**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

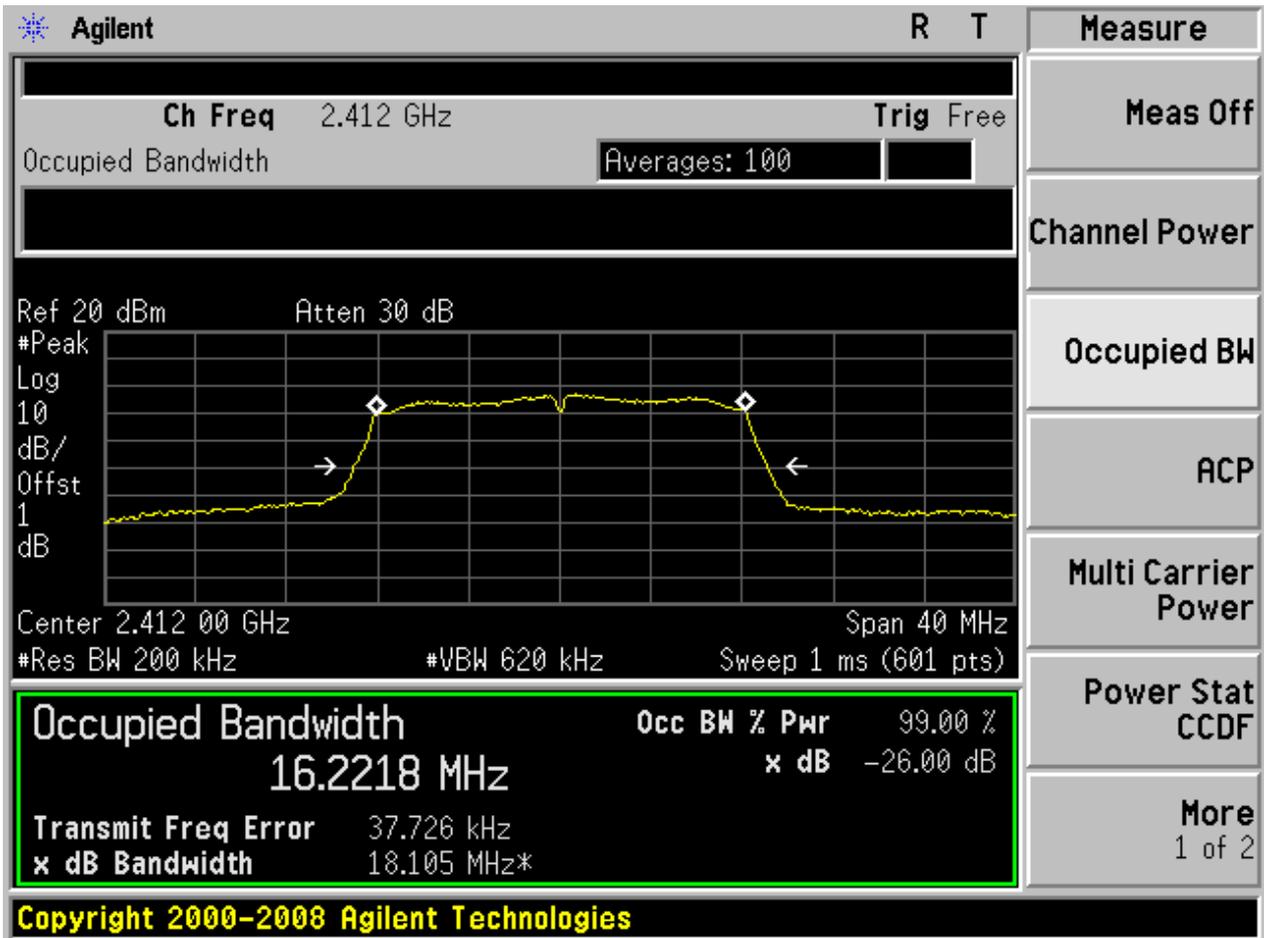
Power Stat CCDF

More  
1 of 2

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2.7 11G\_L@Ant 1





2.8 11G\_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 %
16.2291 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> 52.270 kHz	
<b>x dB Bandwidth</b> 18.153 MHz*	

**Measure**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

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2.9 11G\_M@Ant 1

Agilent R T

**Ch Freq** 2.437 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 2.437 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 %
16.3355 MHz	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b> 3.108 kHz	
<b>x dB Bandwidth</b> 18.297 MHz*	

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

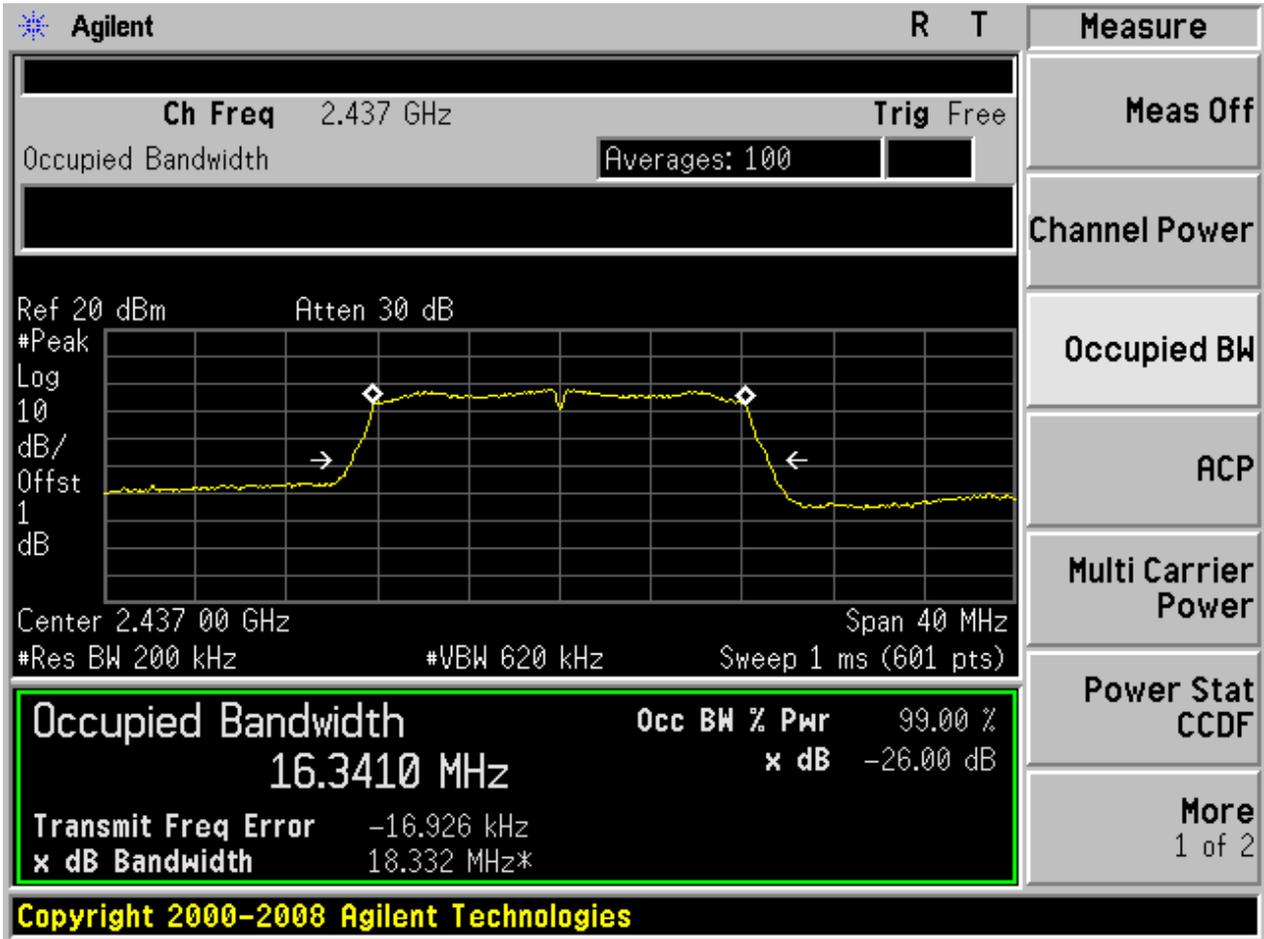
Multi Carrier Power

Power Stat CCDF

More  
1 of 2

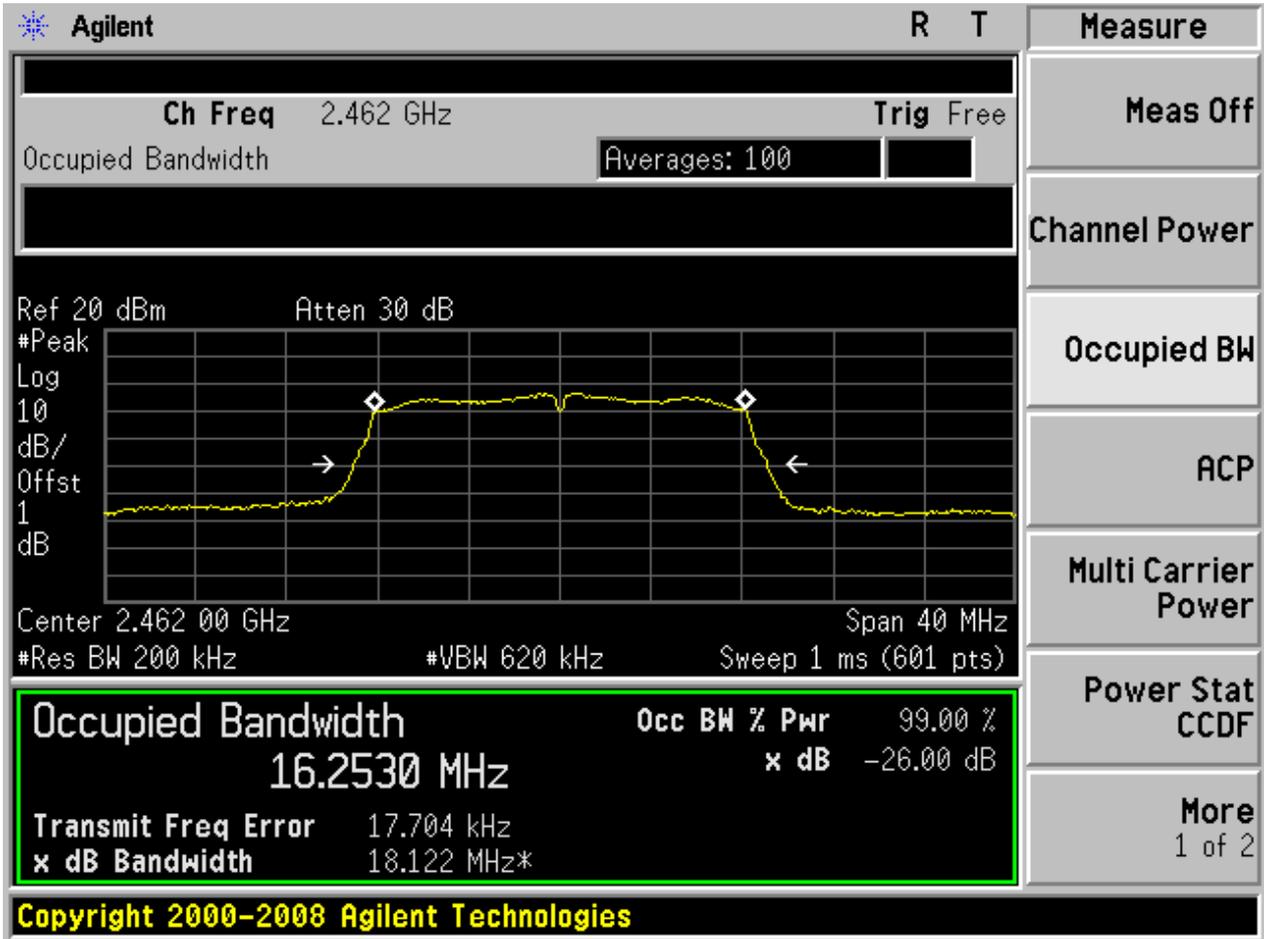


2.10 11G\_M@Ant 2





2.11 11G\_H@Ant 1





2.12 11G\_H@Ant 2

Agilent R T

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth Averages: 100

---

Ref 20 dBm Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
1  
dB

Center 2.462 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>16.2383 MHz</b>	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b> 27.505 kHz	
<b>x dB Bandwidth</b> 18.081 MHz*	

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

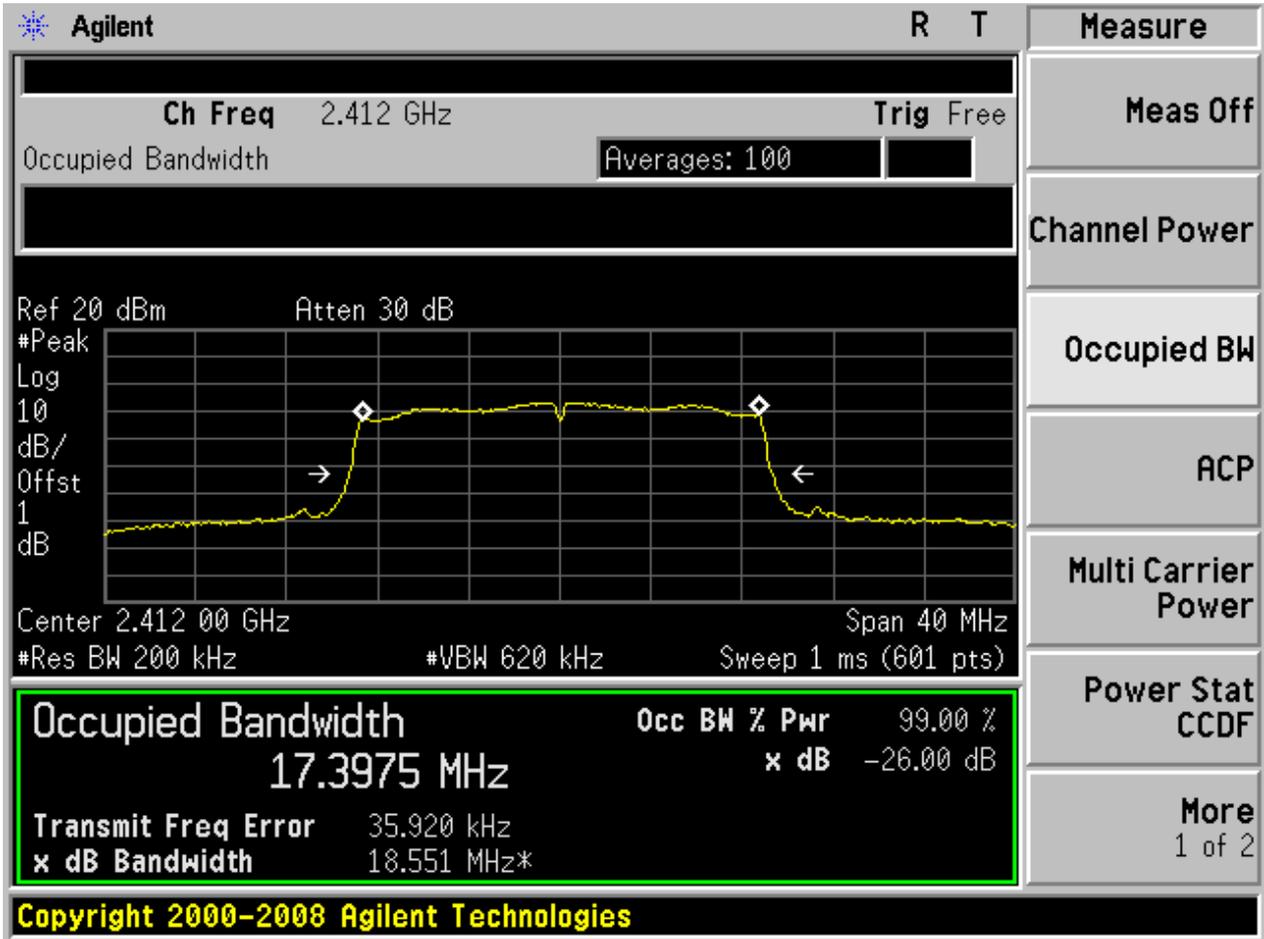
Multi Carrier Power

Power Stat CCDF

More  
1 of 2

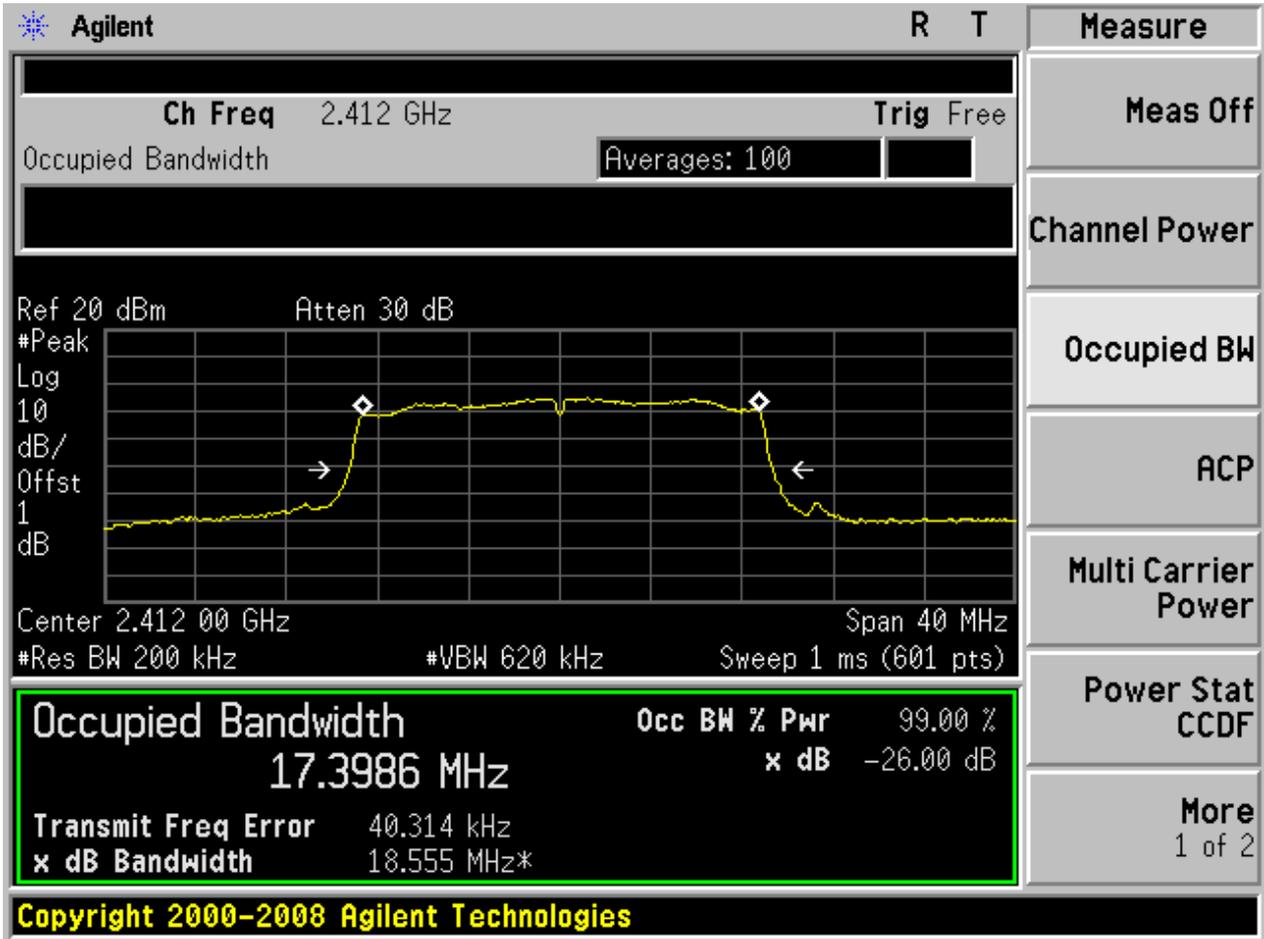


2.13 11N20\_L@Ant 1



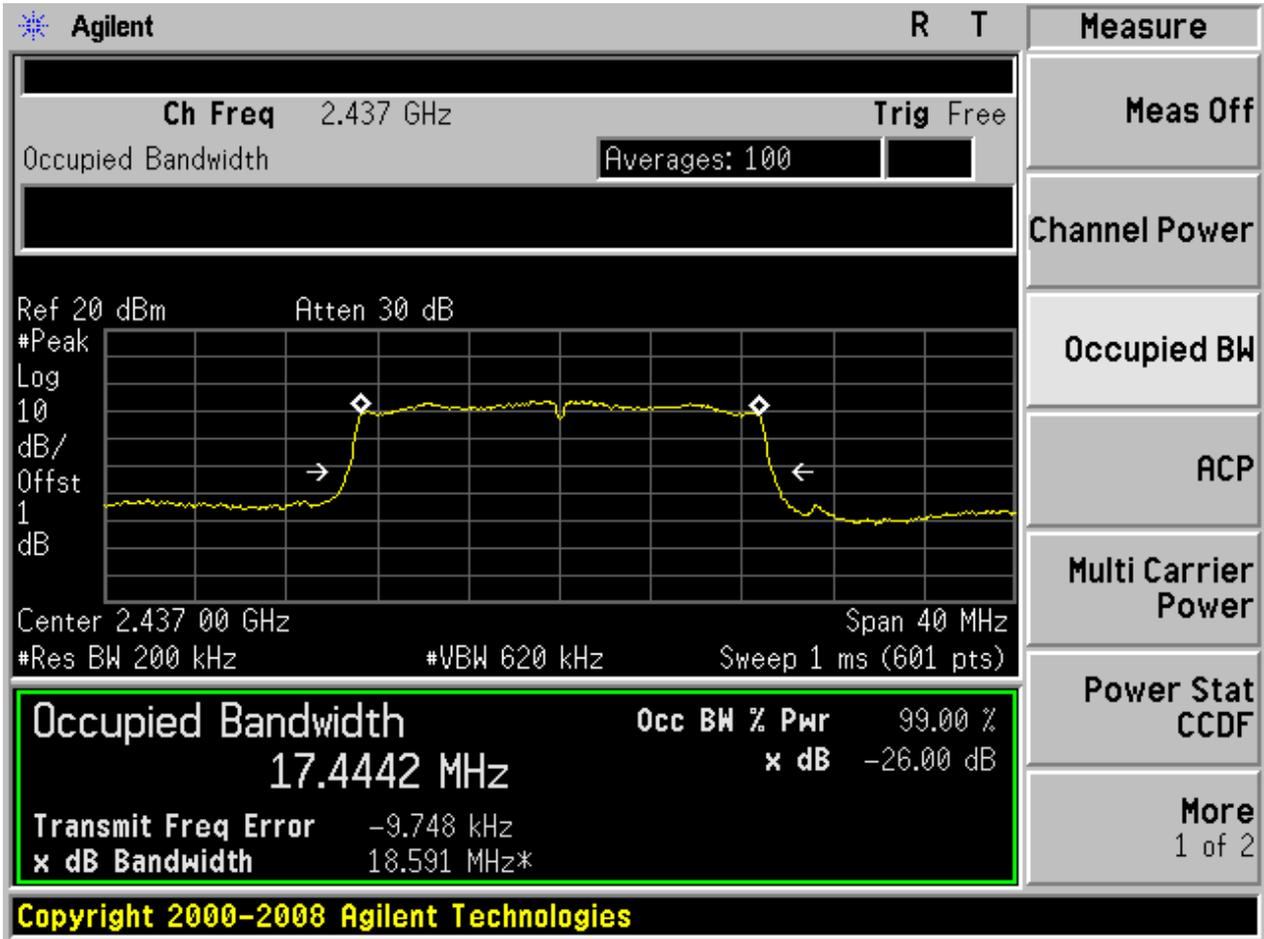


2.14 11N20\_L@Ant 2



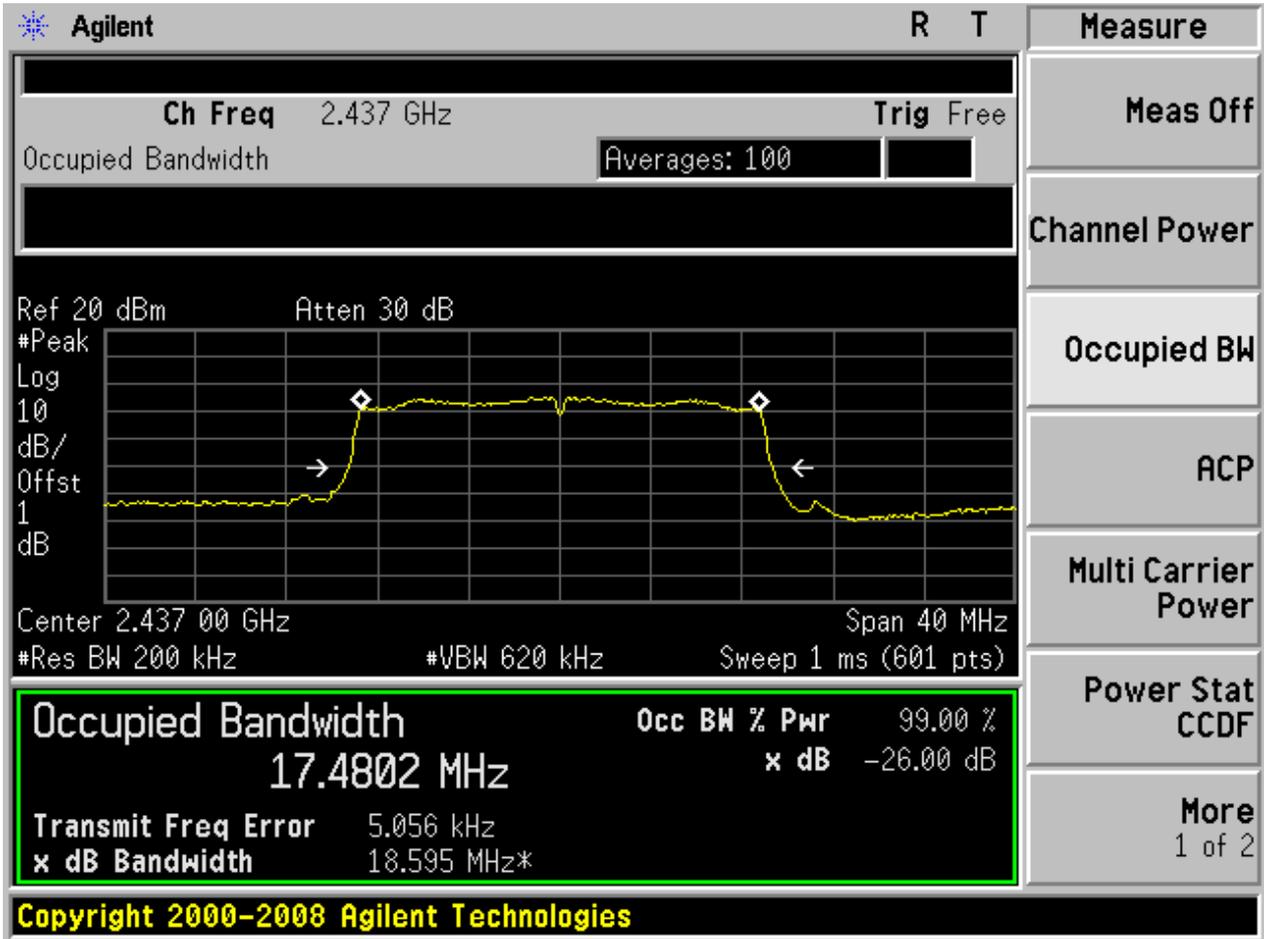


2.15 11N20\_M@Ant 1





2.16 11N20\_M@Ant 2





2.17 11N20\_H@Ant 1

Agilent R T

**Ch Freq** 2.462 GHz **Trig** Free

Occupied Bandwidth Averages: 100

---

Ref 20 dBm Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
1  
dB

Center 2.462 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 %
17.3855 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	1.725 kHz	
<b>x dB Bandwidth</b>	18.493 MHz*	

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

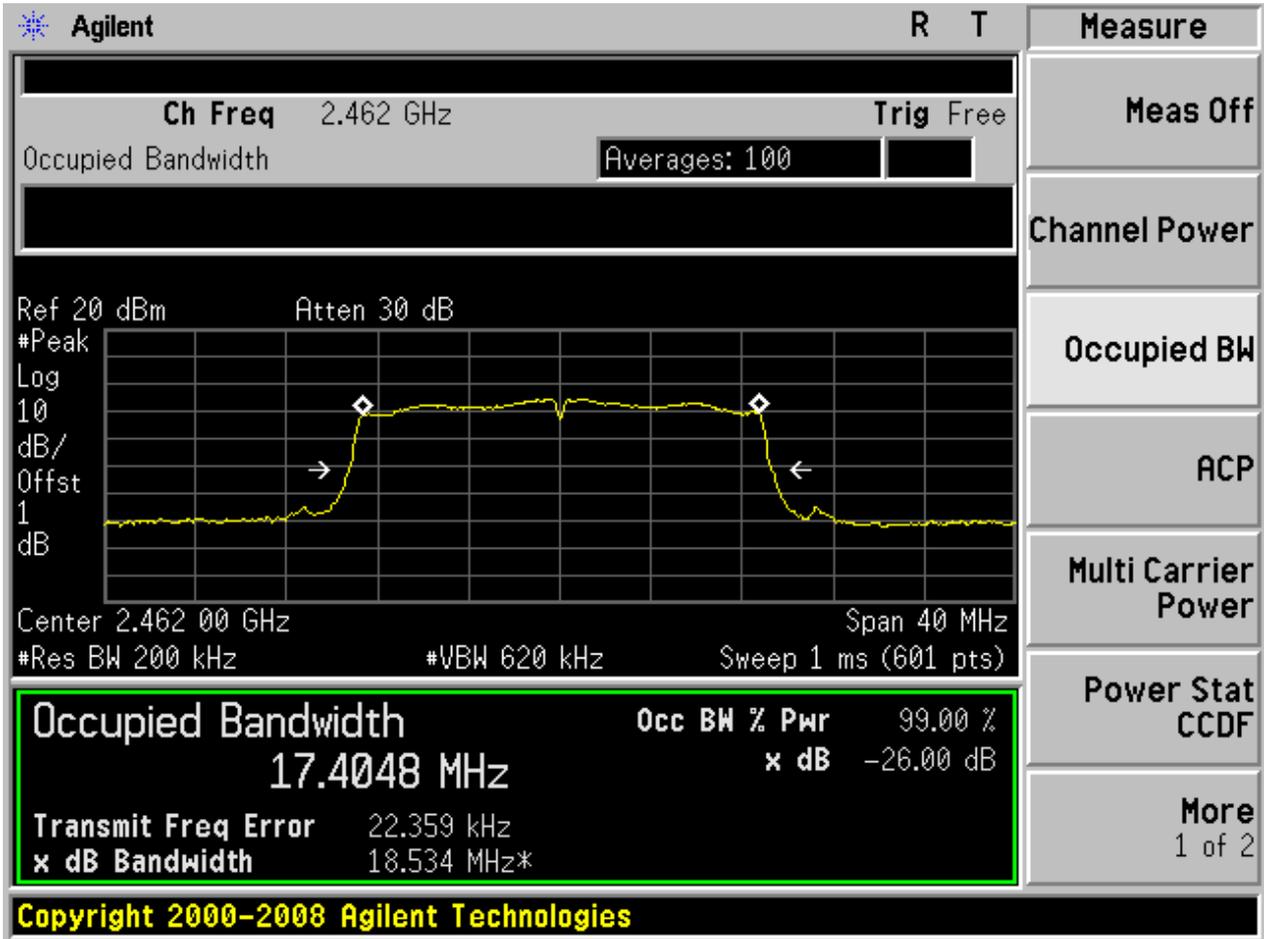
Multi Carrier Power

Power Stat CCDF

More  
1 of 2

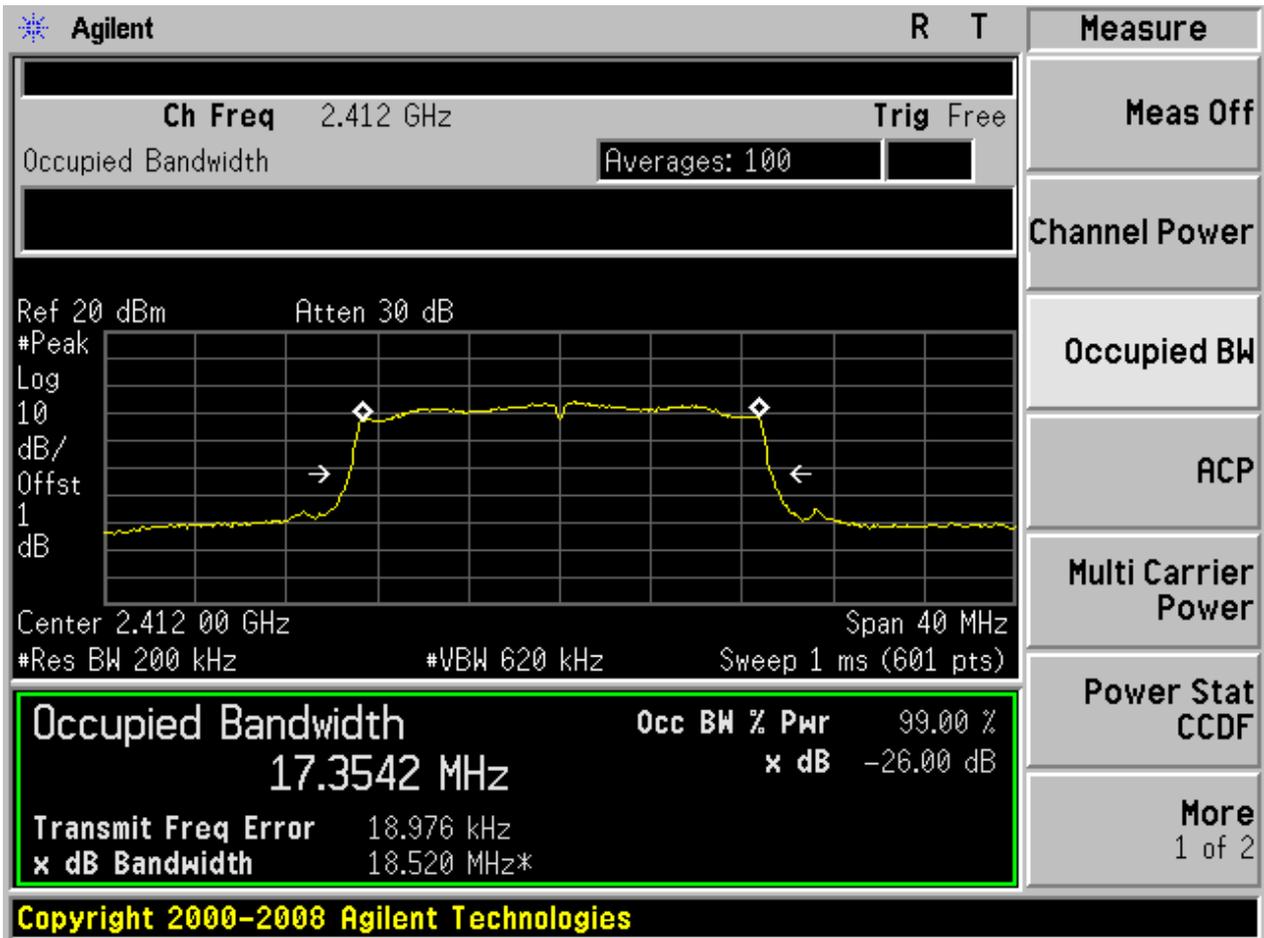


2.18 11N20\_H@Ant 2



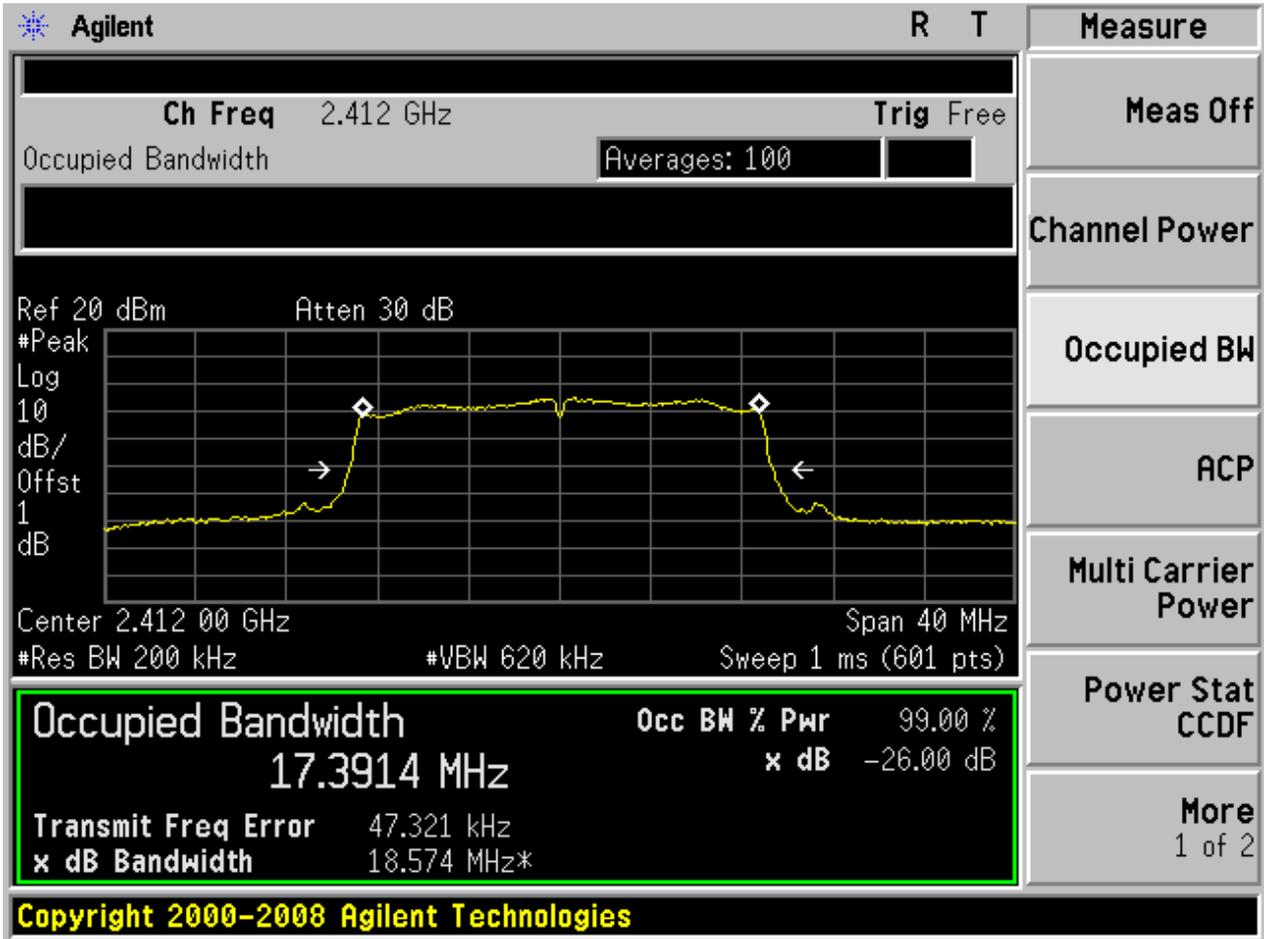


2.13 11N20m\_L@Ant 1





2.14 11N20m\_L@Ant 2





2.15 11N20m\_M@Ant 1

Agilent R T

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 %
<b>17.4524 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-8.118 kHz
<b>x dB Bandwidth</b>		18.648 MHz*

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2



2.16 11N20m\_M@Ant 2

Agilent R T Measure

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth Averages: 100

Ref 20 dBm Atten 30 dB

#Peak Log 10 dB/Offst 1 dB

Center 2.437 00 GHz Span 40 MHz

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

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>17.4609 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-2.805 kHz
<b>x dB Bandwidth</b>		18.701 MHz*

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2



2.17 11N20m\_H@Ant 1

Agilent R T Measure

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth Averages: 100

Ref 20 dBm Atten 30 dB

#Peak Log 10 dB/Offst 1 dB

Center 2.462 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>17.4107 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-17.115 kHz
<b>x dB Bandwidth</b>		18.567 MHz*

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Meas Off

Channel Power

Occupied BW

ACP

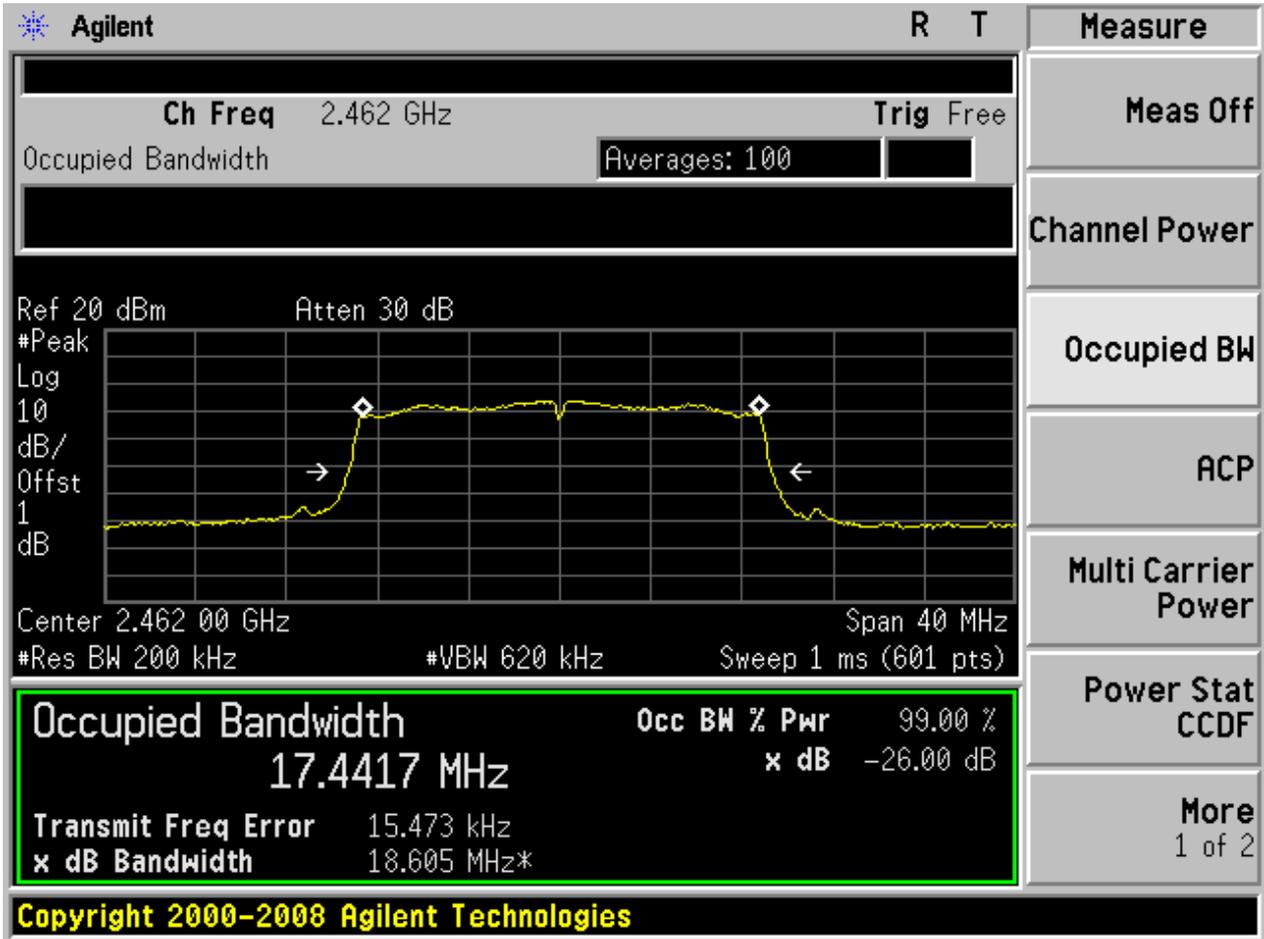
Multi Carrier Power

Power Stat CCDF

More 1 of 2



2.18 11N20m\_H@Ant 2





2.19 11N40\_L@Ant 1

Agilent R T

**Ch Freq** 2.422 GHz **Trig** Free

Occupied Bandwidth Averages: 100

---

Ref 20 dBm Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
1  
dB

Center 2.422 00 GHz Span 80 MHz

#Res BW 390 kHz #VBW 820 kHz Sweep 1 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
35.9336 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> -1.266 kHz	
<b>x dB Bandwidth</b> 38.190 MHz*	

**Copyright 2000-2008 Agilent Technologies**

**Measure**

Meas Off

Channel Power

Occupied BW

ACP

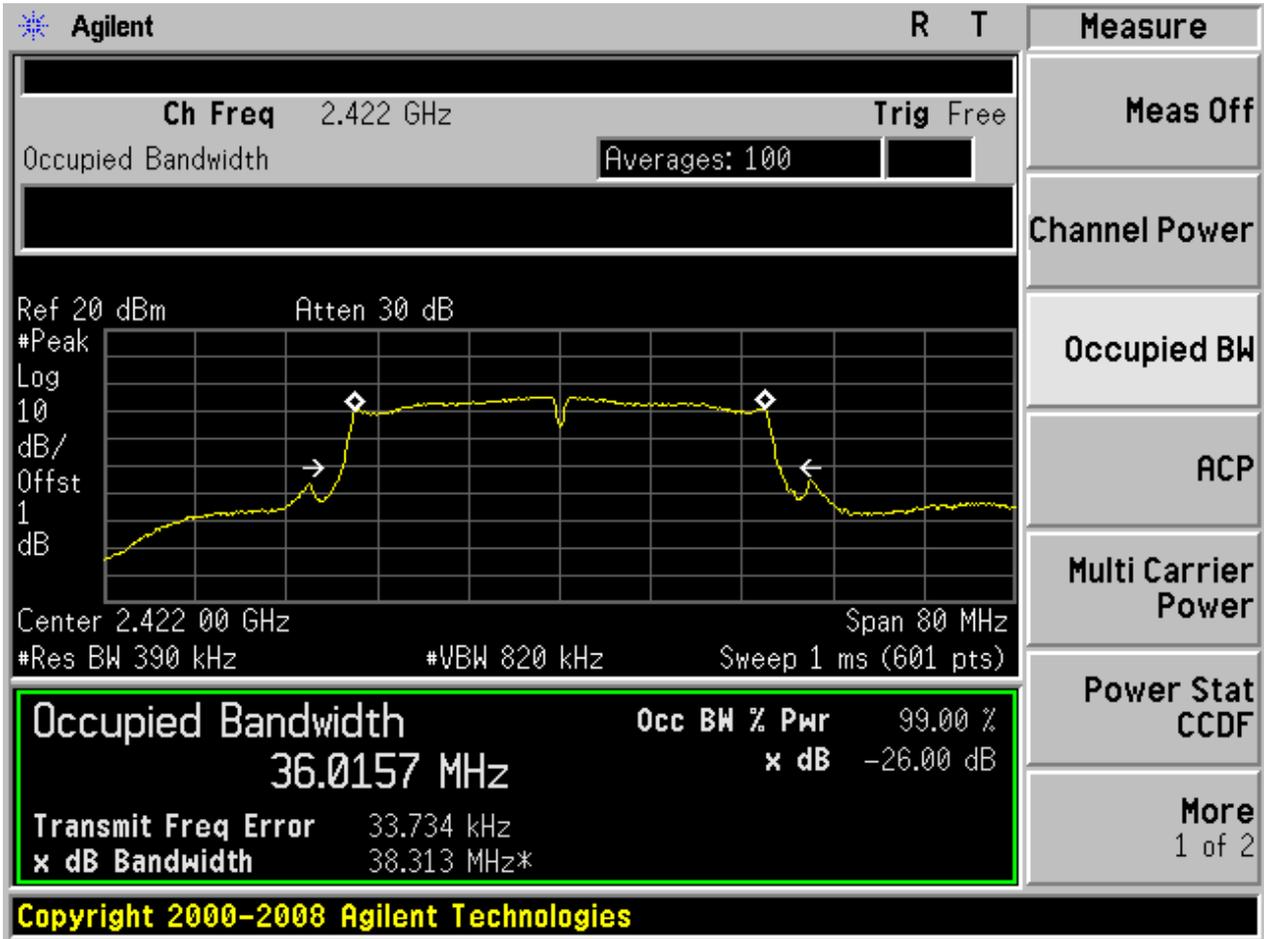
Multi Carrier Power

Power Stat CCDF

More  
1 of 2



2.20 11N40\_L@Ant 2





2.21 11N40\_M@Ant 1

Agilent R T Measure

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth Averages: 100

Ref 20 dBm Atten 30 dB

#Peak Log 10 dB/Offst 1 dB

Center 2.437 00 GHz Span 80 MHz

#Res BW 390 kHz #VBW 820 kHz Sweep 1 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>36.1403 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-29.892 kHz
<b>x dB Bandwidth</b>		38.741 MHz*

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2



2.22 11N40\_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 80 MHz

#Res BW 390 kHz #VBW 820 kHz Sweep 1 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
36.2509 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> 16.016 kHz	
<b>x dB Bandwidth</b> 38.893 MHz*	

**Copyright 2000-2008 Agilent Technologies**

**Measure**

Meas Off

Channel Power

Occupied BW

ACP

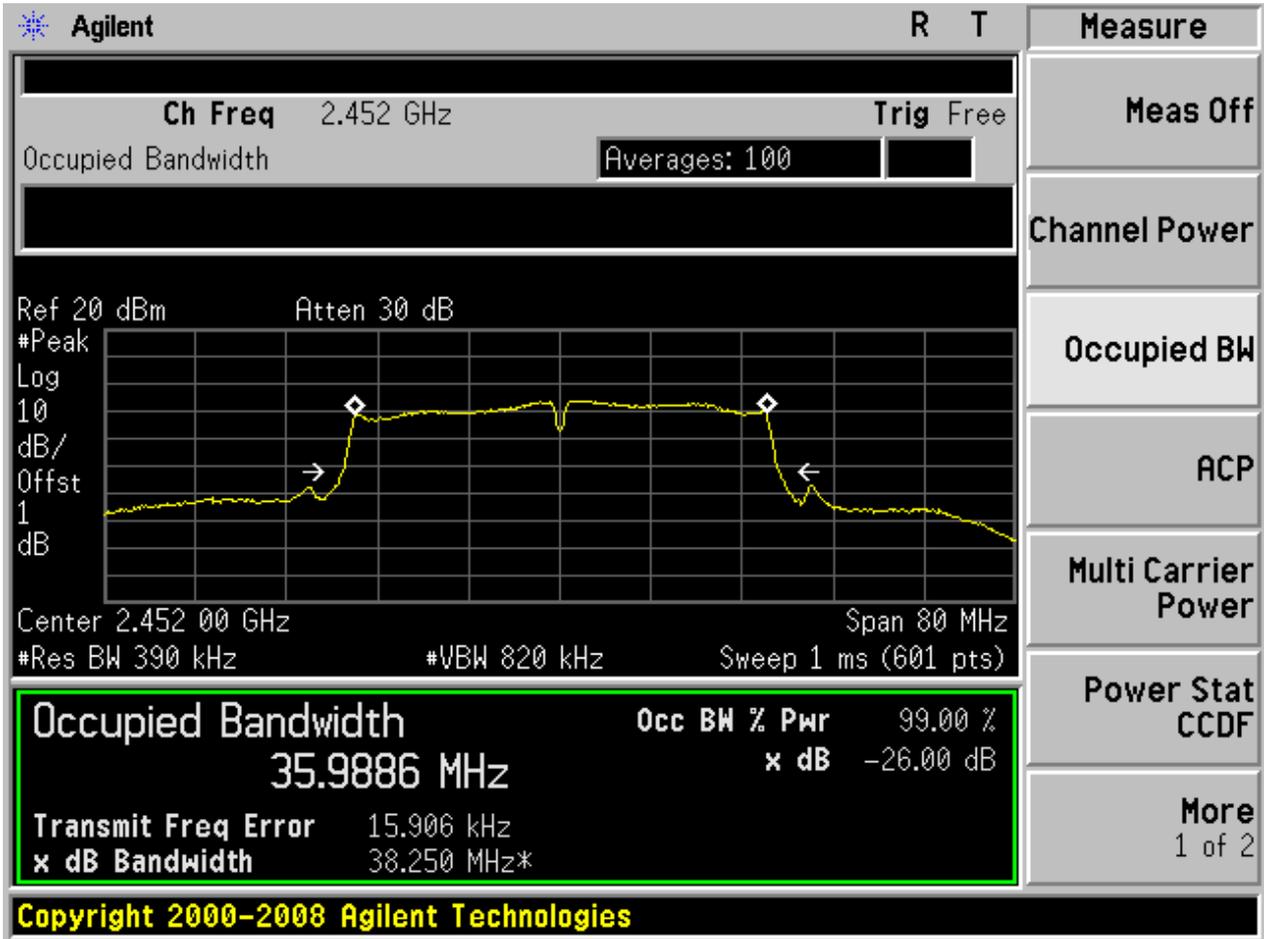
Multi Carrier Power

Power Stat CCDF

More  
1 of 2

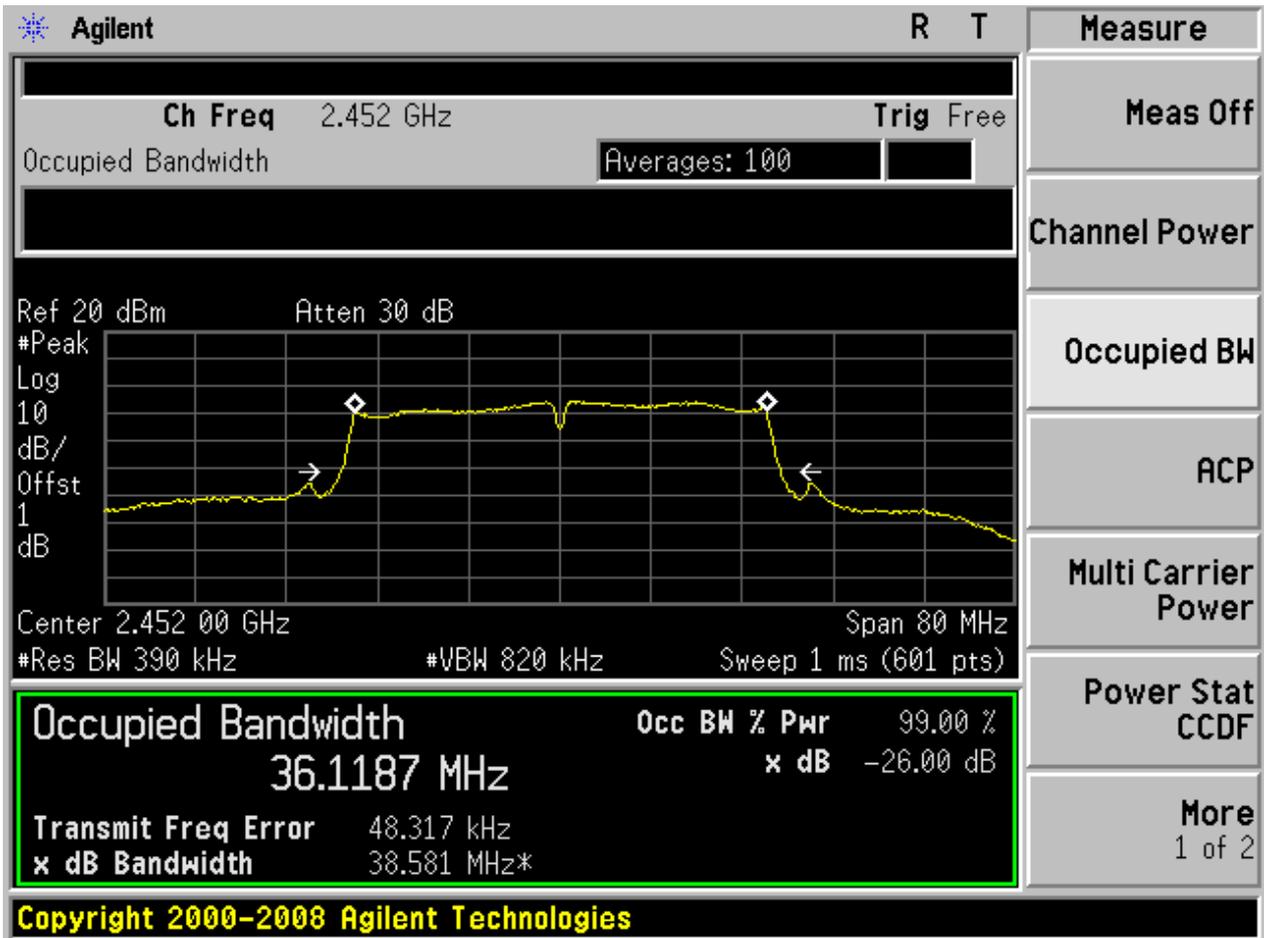


2.23 11N40\_H@Ant 1



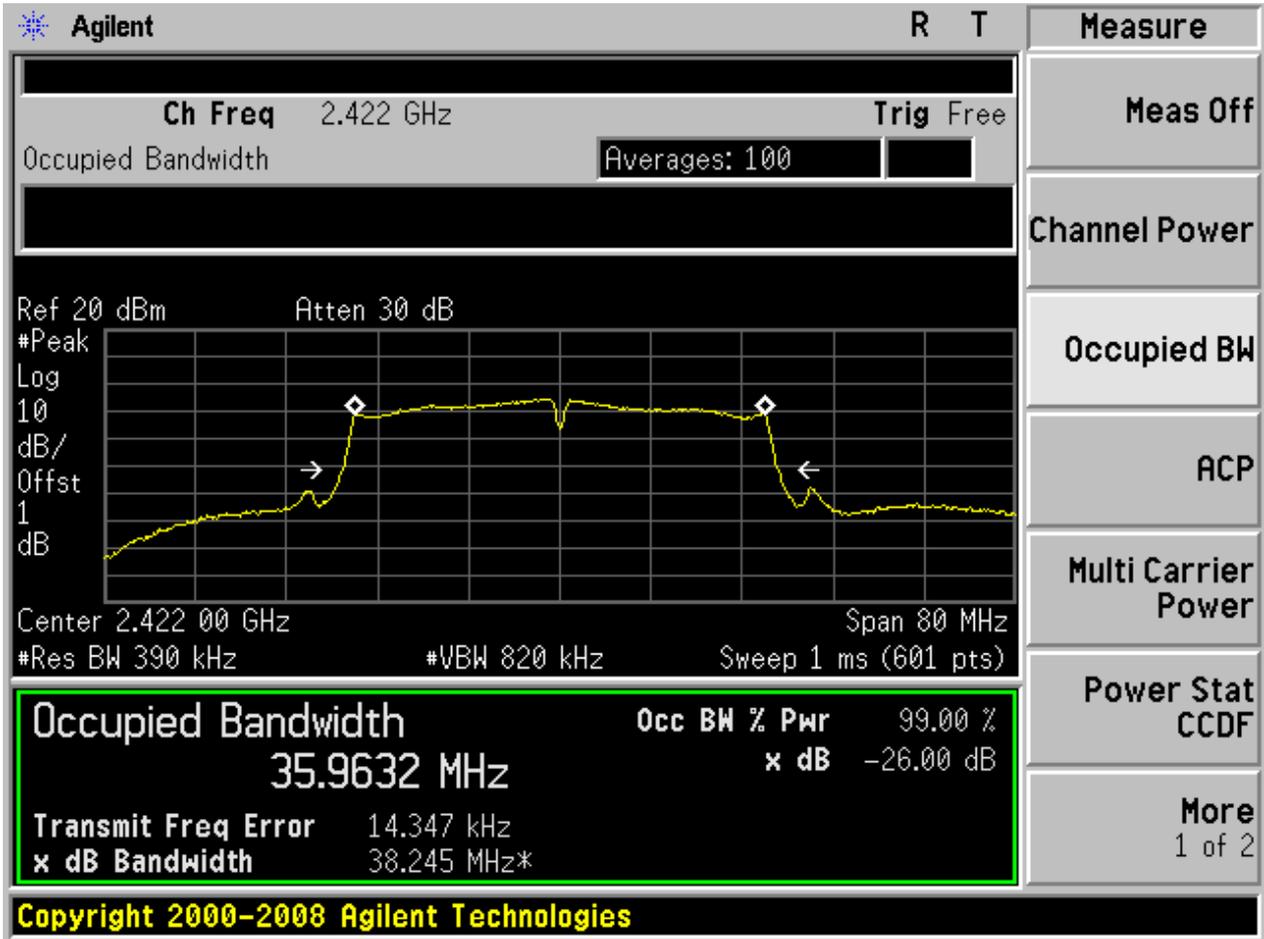


2.24 11N40\_H@Ant 2



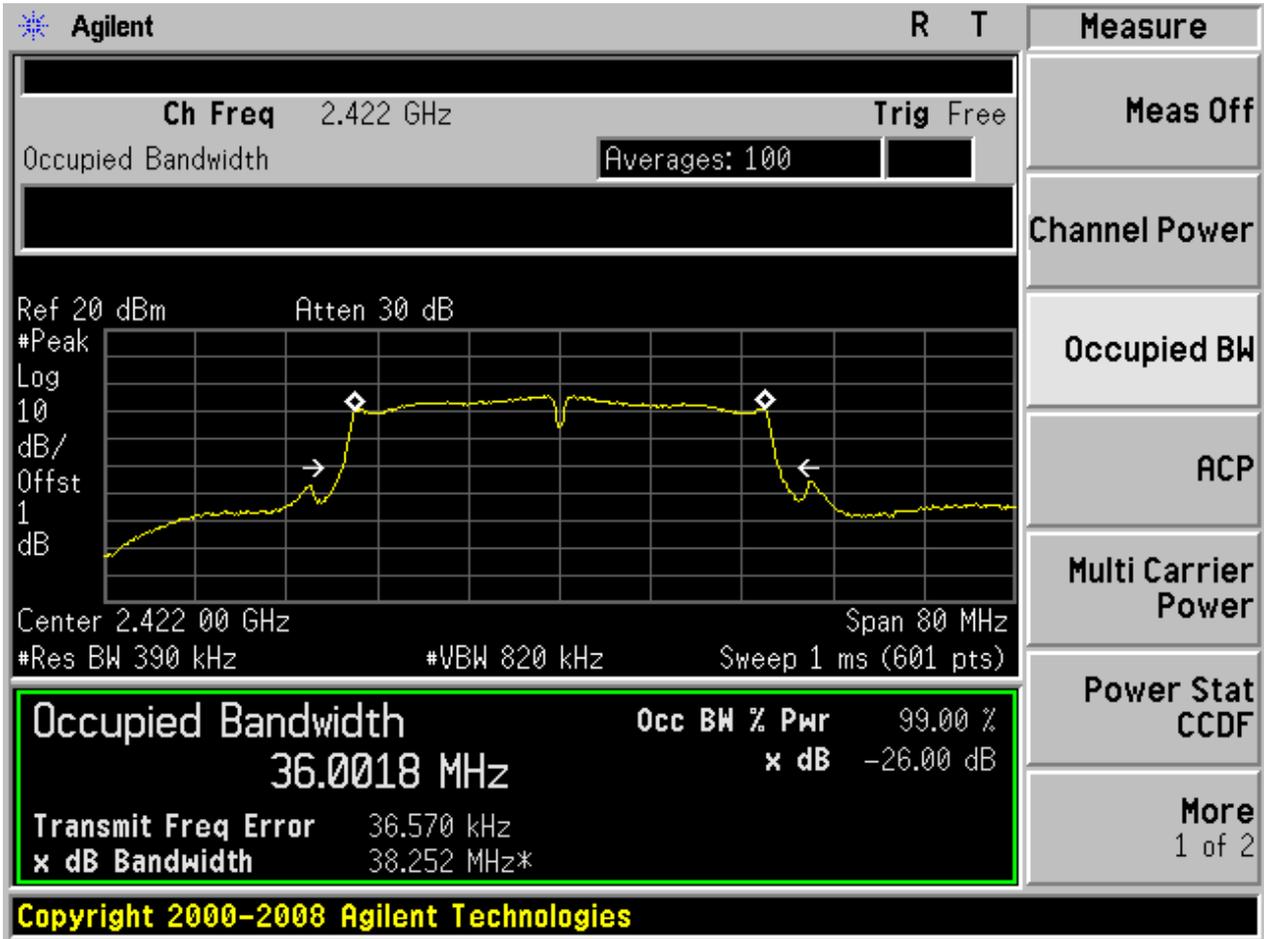


2.31 11N40m\_L@Ant 1



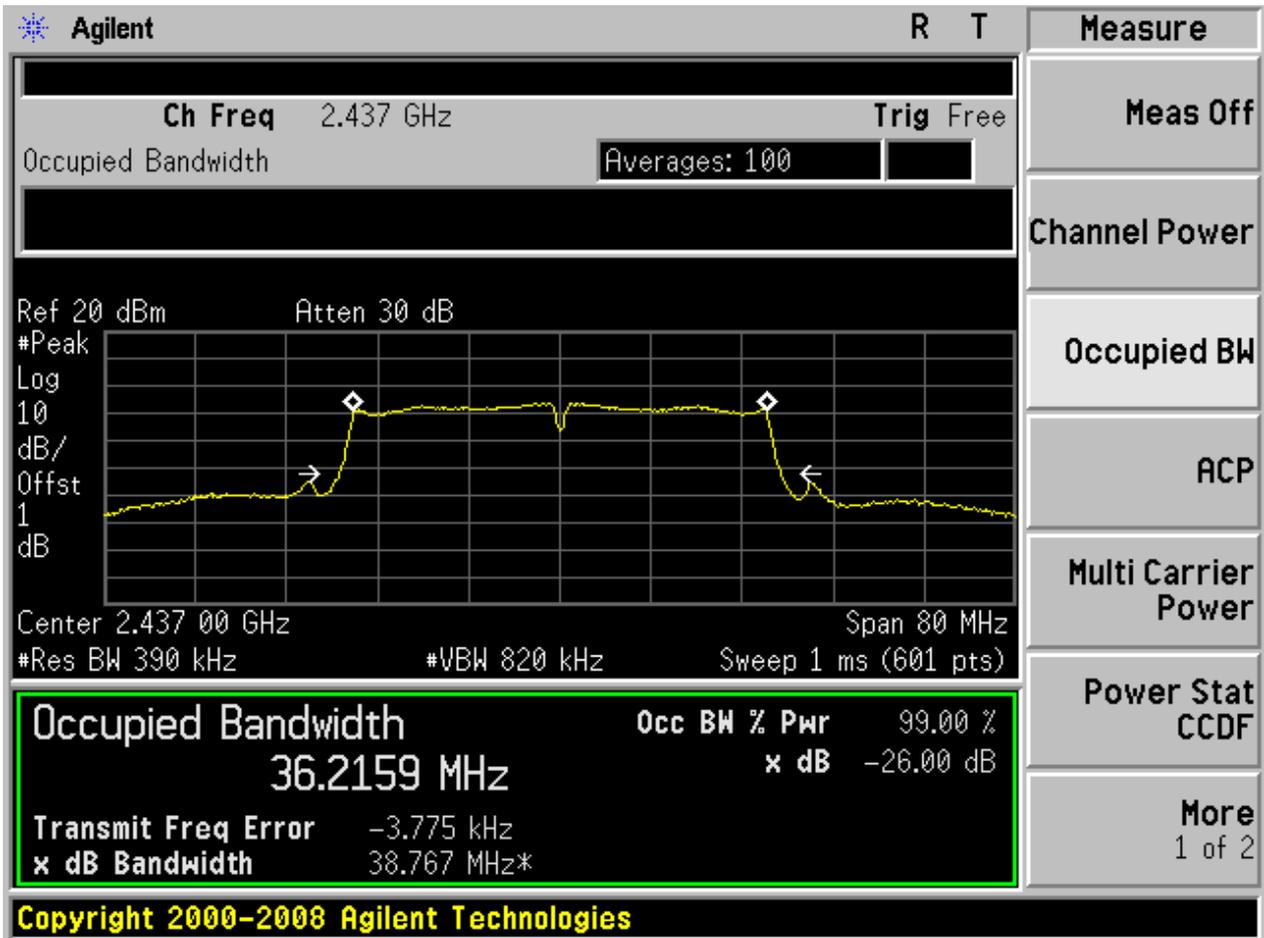


2.32 11N40m\_L@Ant 2



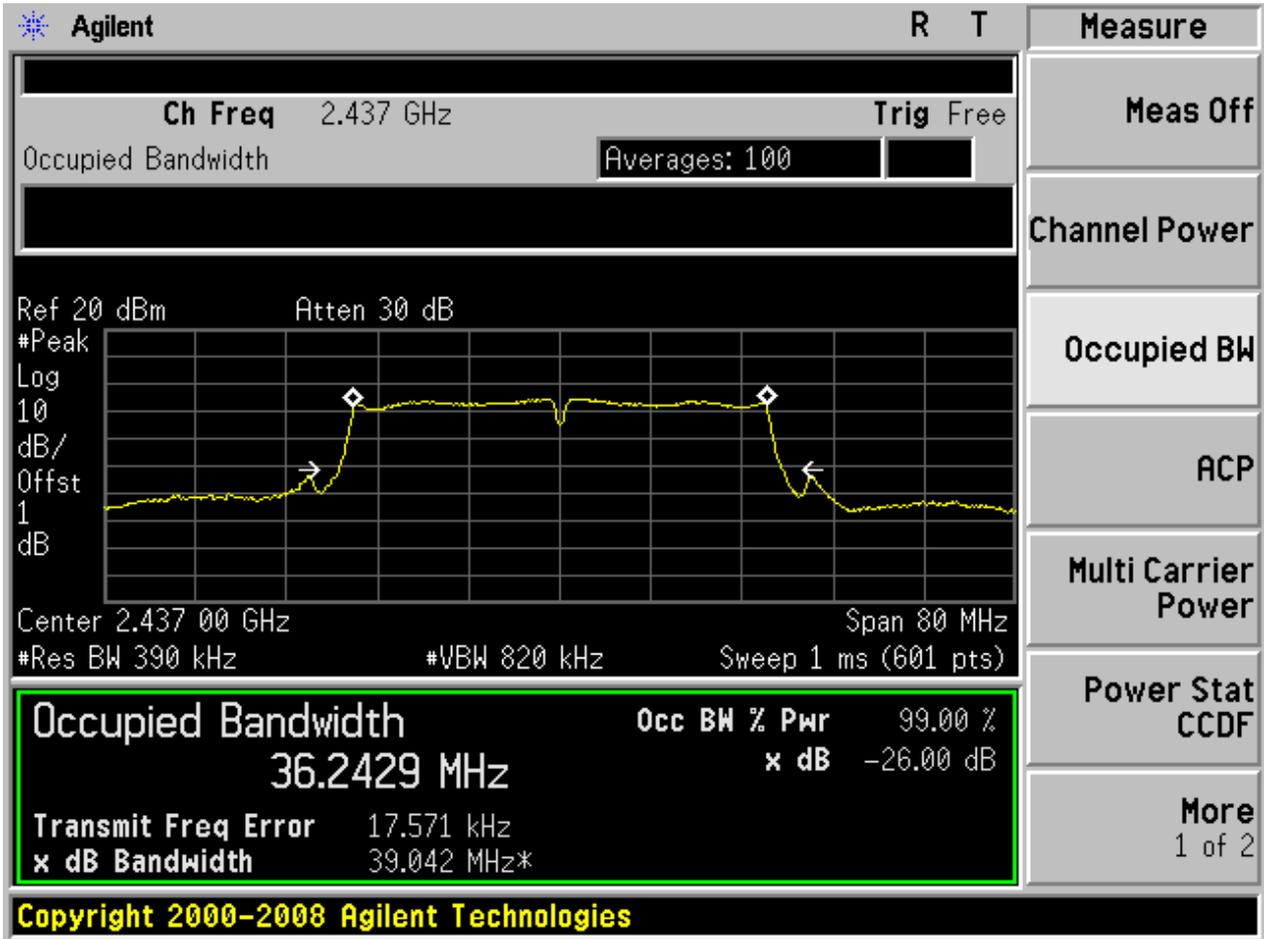


2.33 11N40m\_M@Ant 1



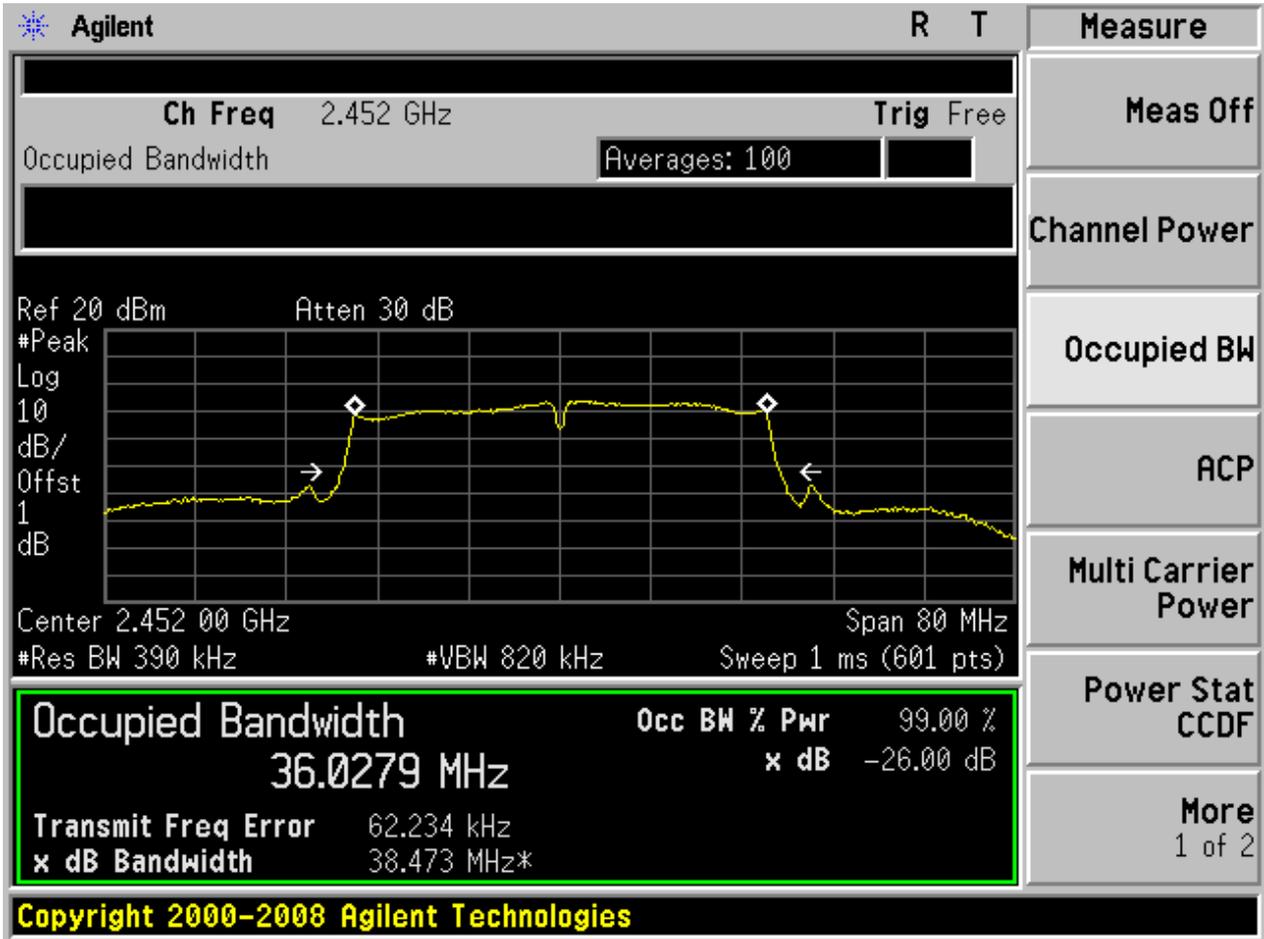


2.34 11N40m\_M@Ant 2





2.35 11N40m\_H@Ant 1





2.36 11N40m\_H@Ant 2

Agilent R T

**Ch Freq** 2.452 GHz **Trig** Free

Occupied Bandwidth Averages: 100

---

Ref 20 dBm Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
1  
dB

Center 2.452 00 GHz Span 80 MHz

#Res BW 390 kHz #VBW 820 kHz Sweep 1 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
36.0082 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> 92.112 kHz	
<b>x dB Bandwidth</b> 38.455 MHz*	

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2



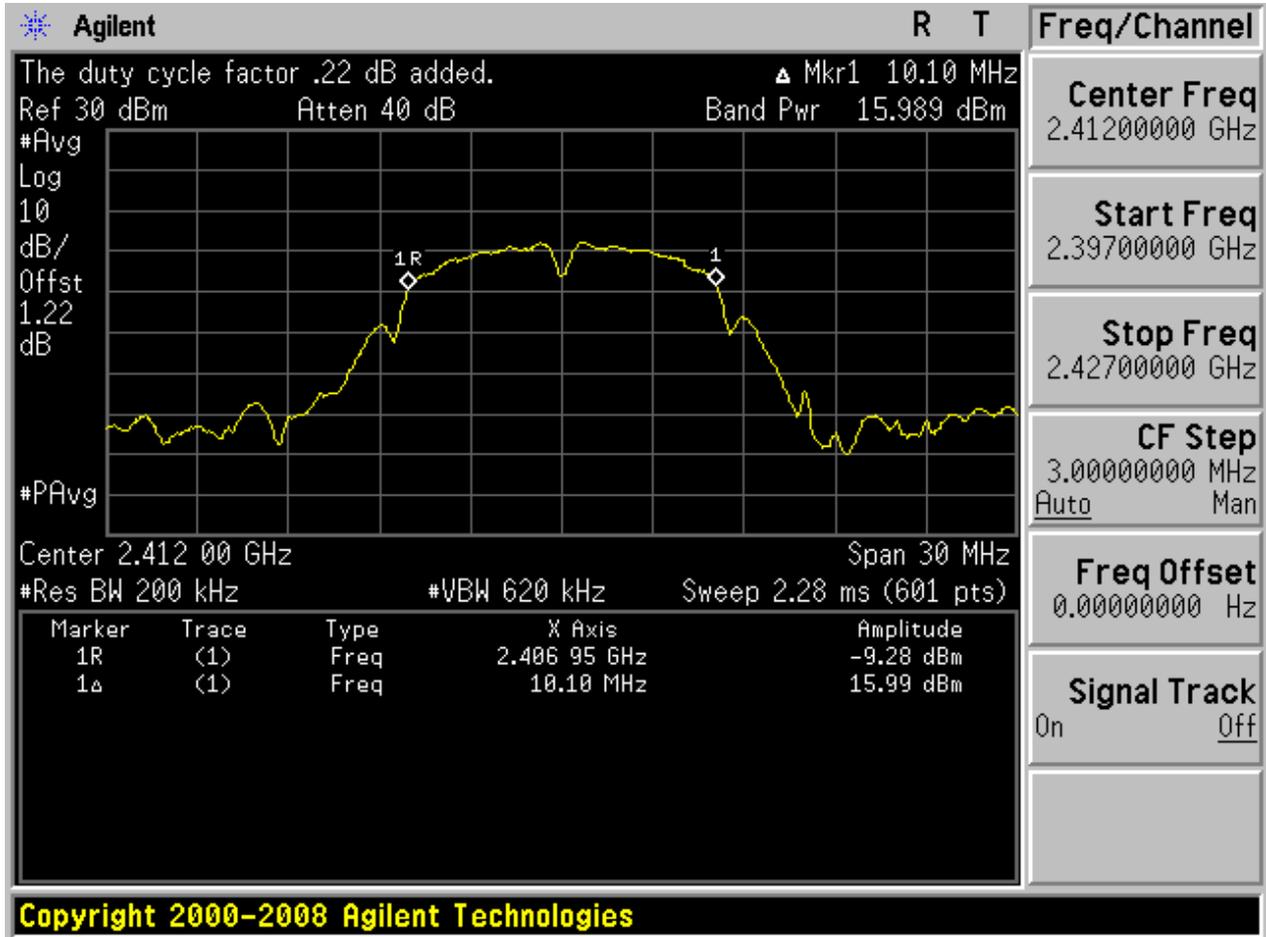
## Appendix C: Maximum Conducted Average Output Power

### Part I - Test Results

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

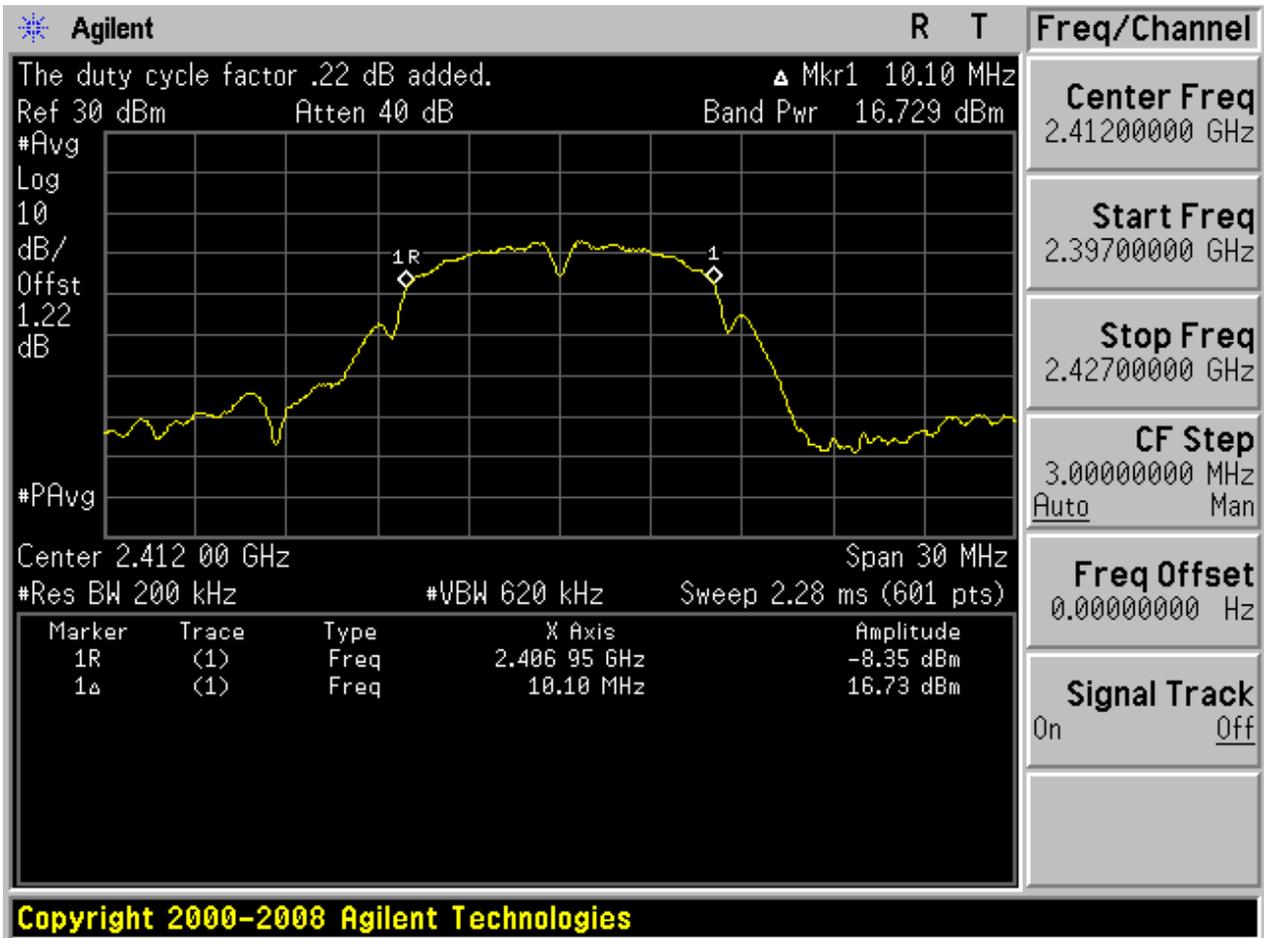
Part II - Test Plots

2.1 11B\_L@Ant 1





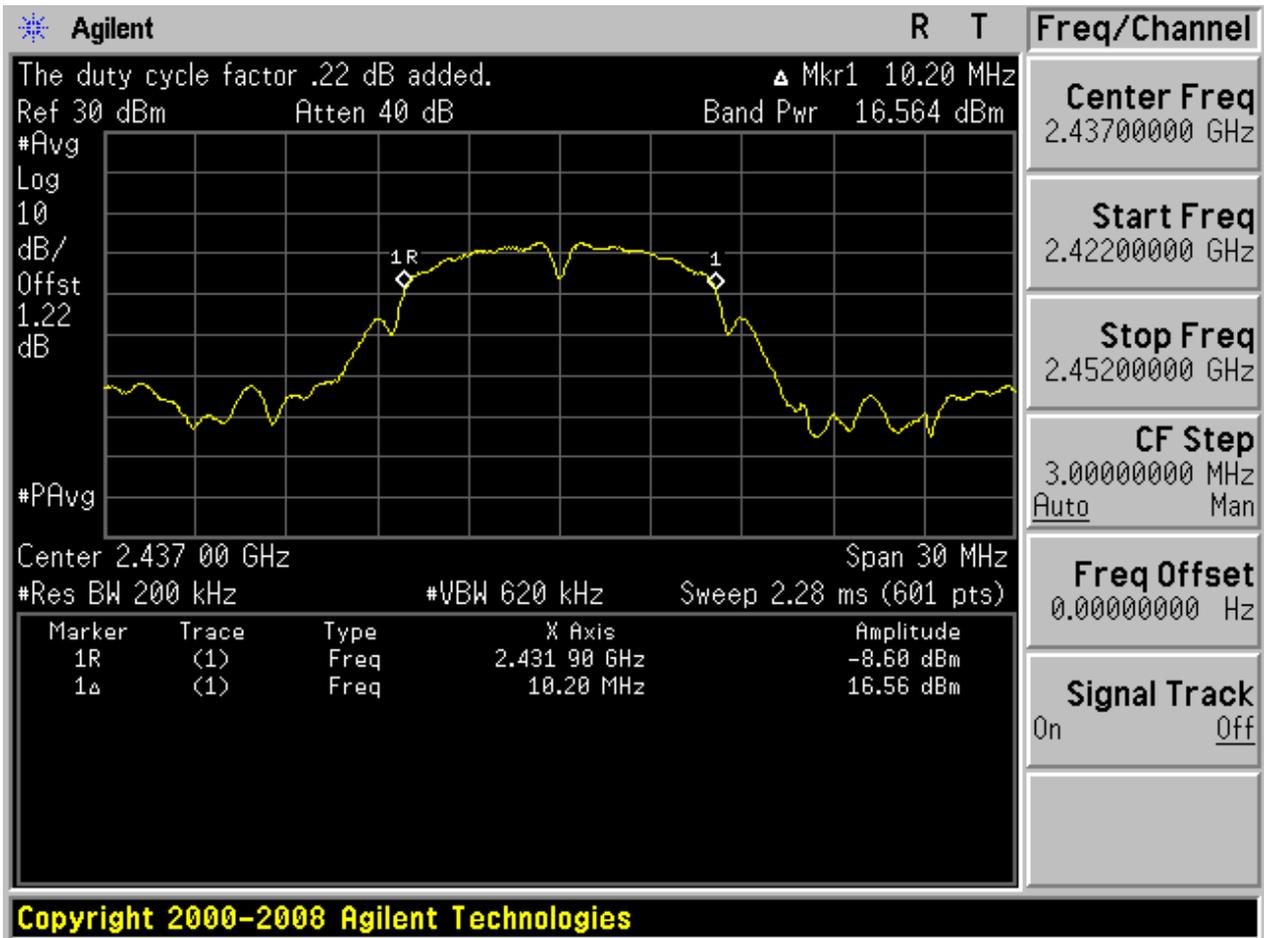
2.2 11B\_L@Ant 2



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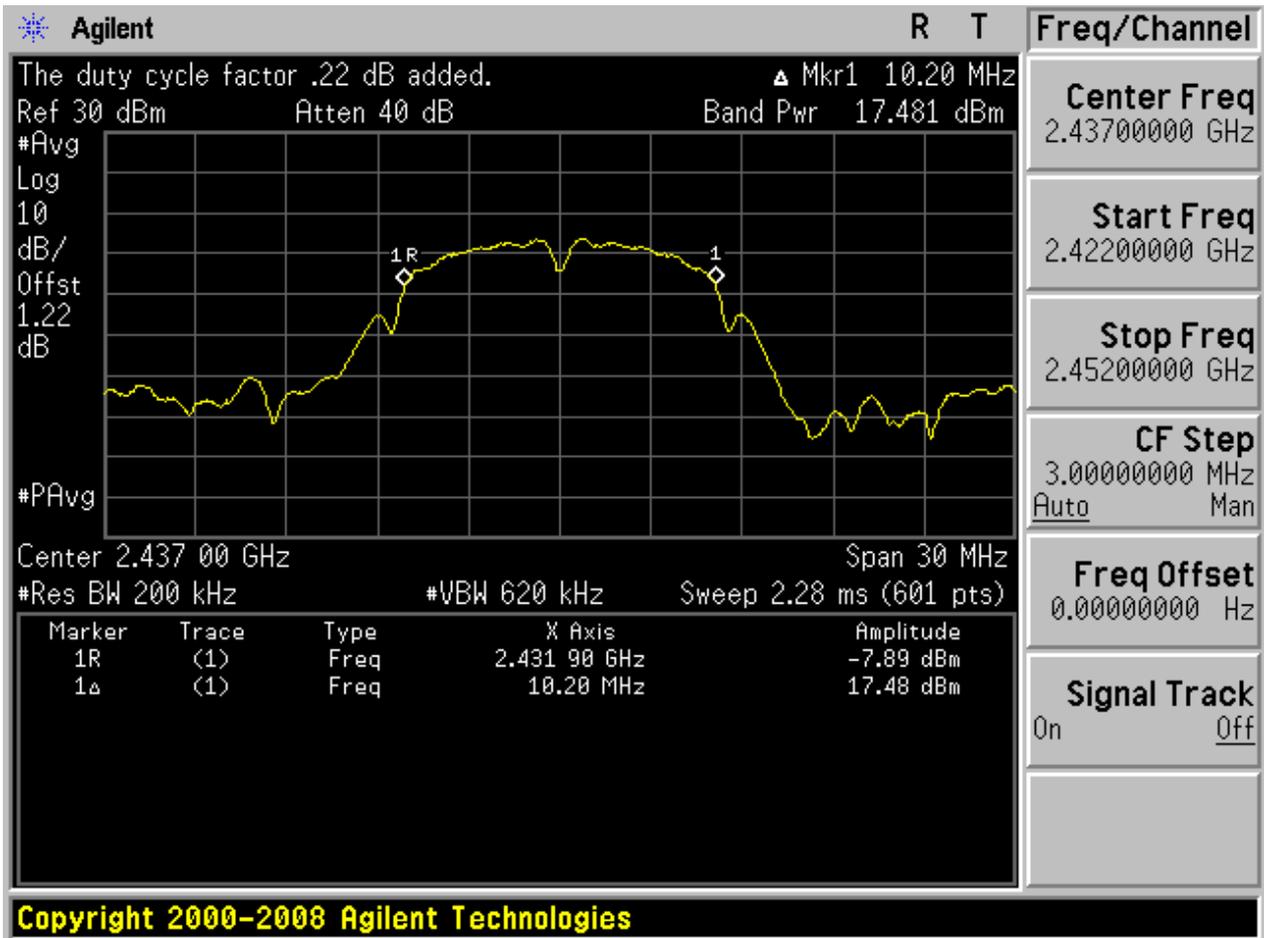


2.3 11B\_M@Ant 1



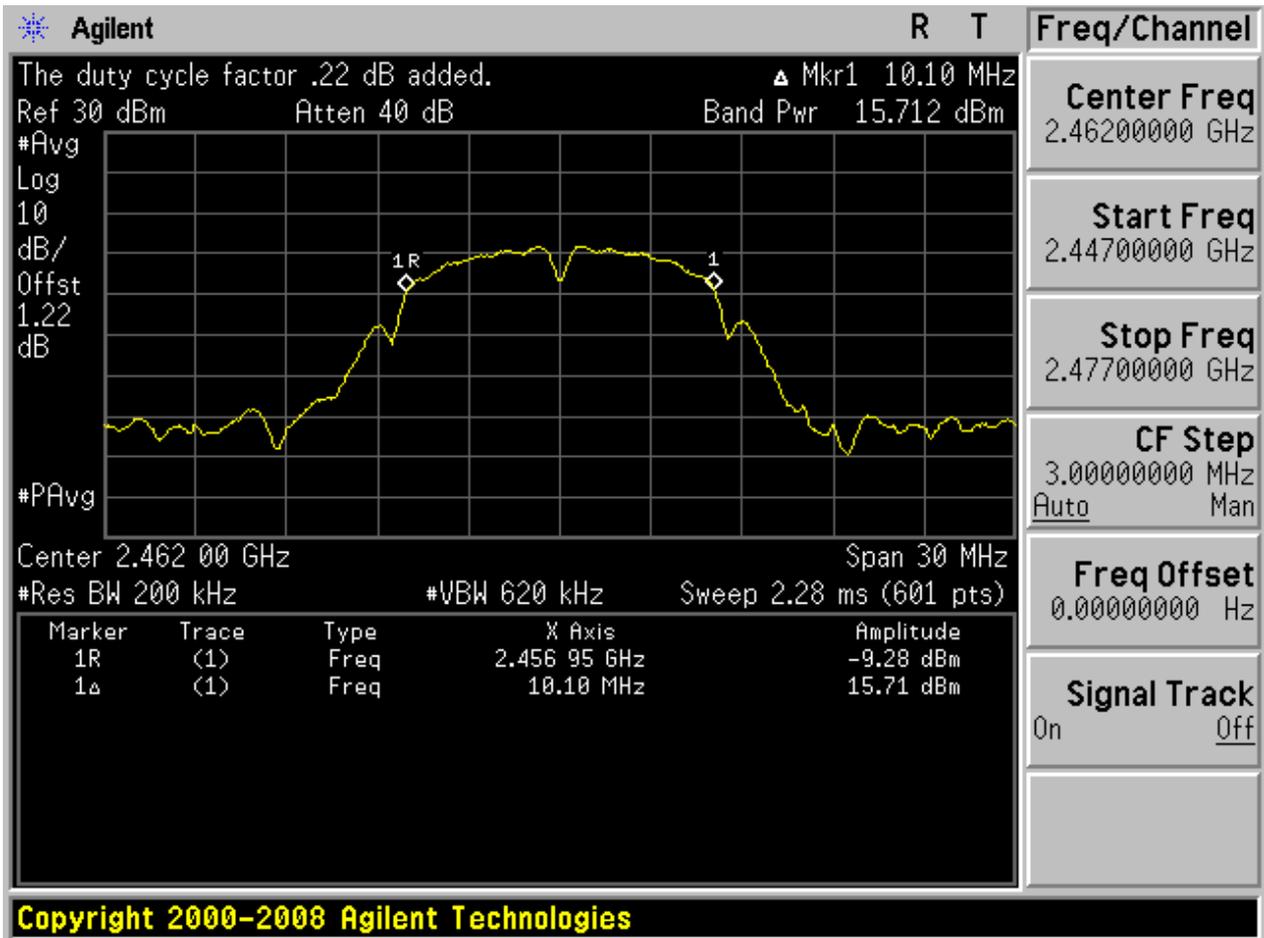


2.4 11B\_M@Ant 2



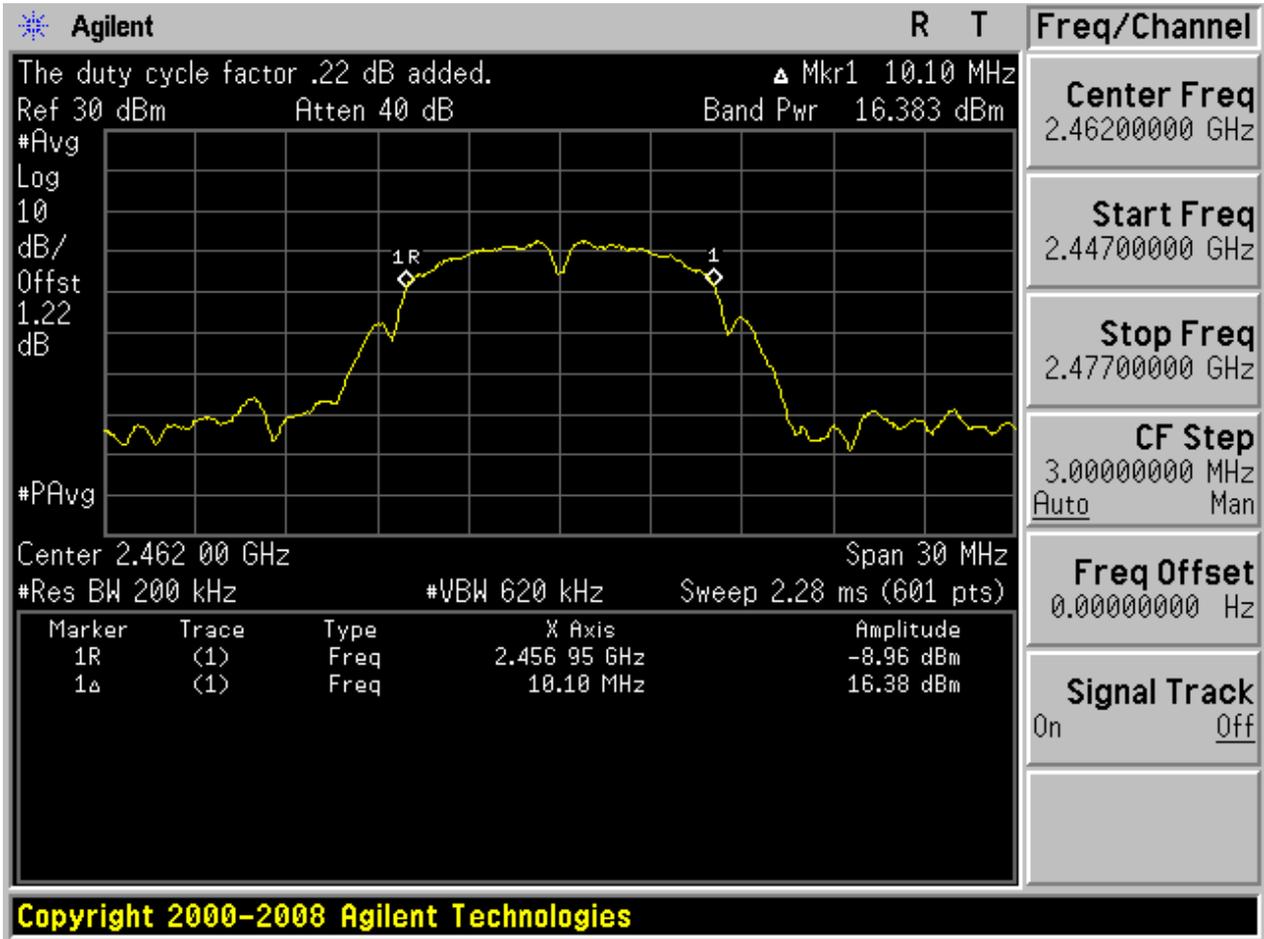


2.5 11B\_H@Ant 1





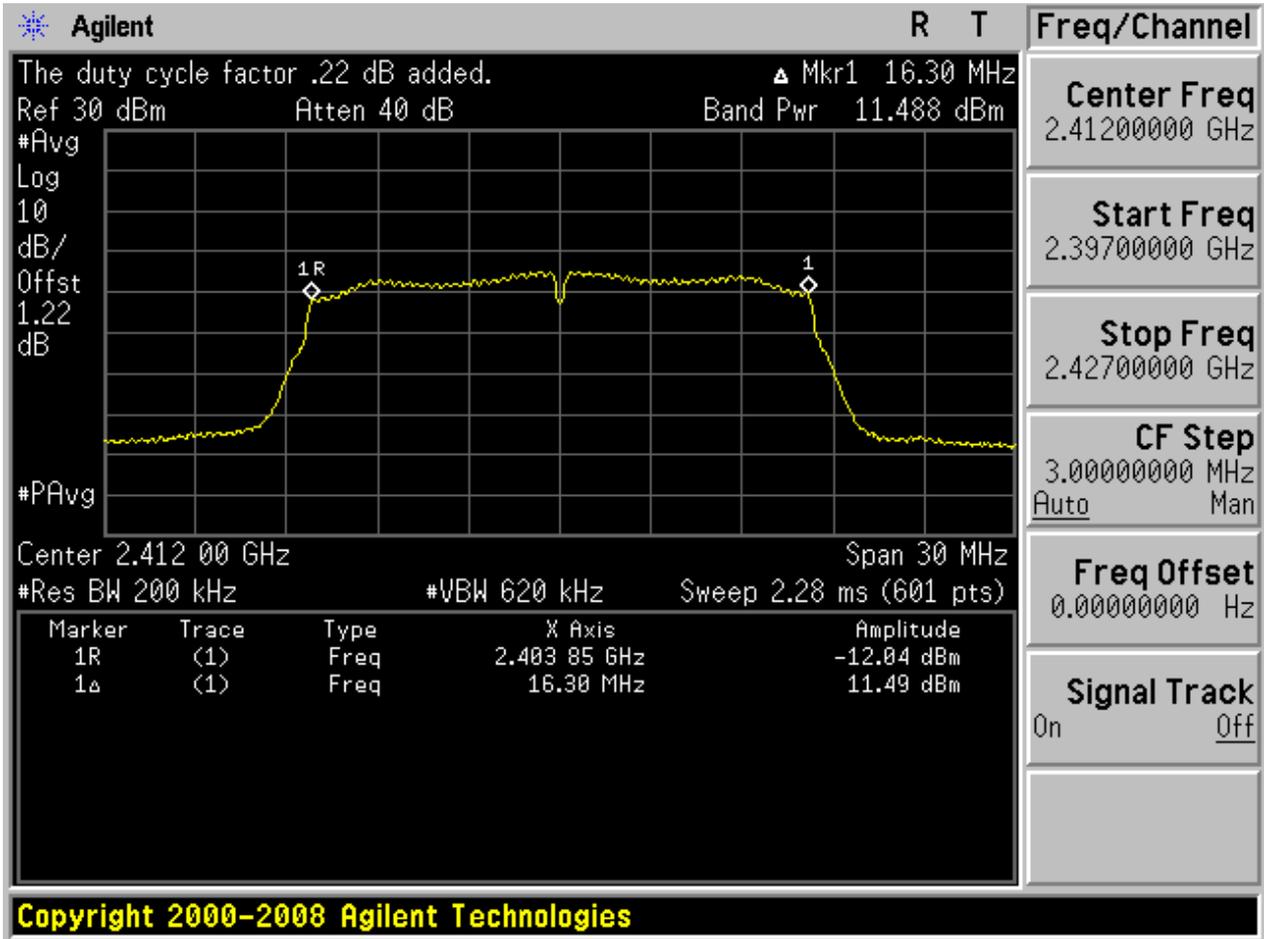
2.6 11B\_H@Ant 2



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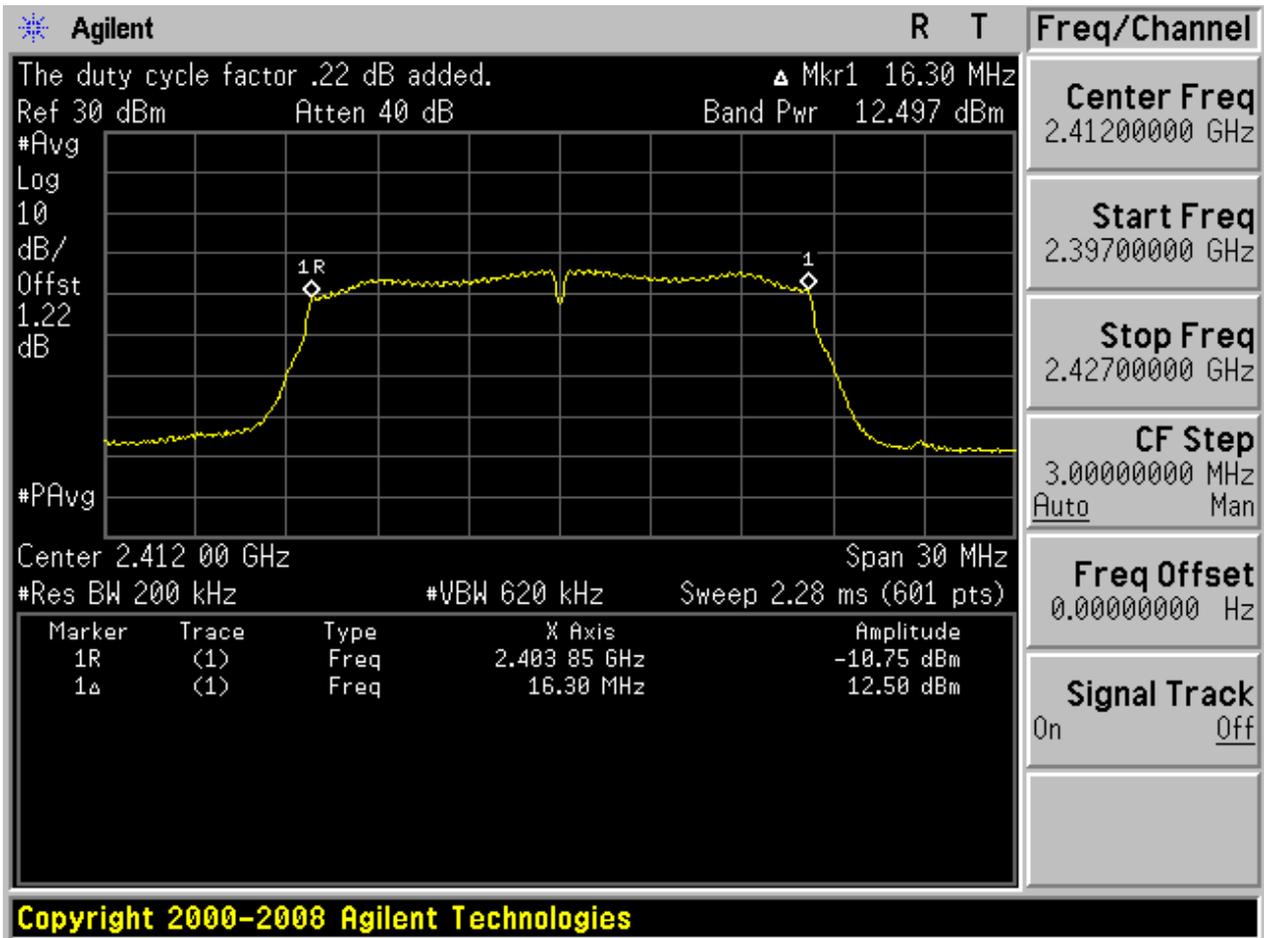
2.7 11G\_L@Ant 1



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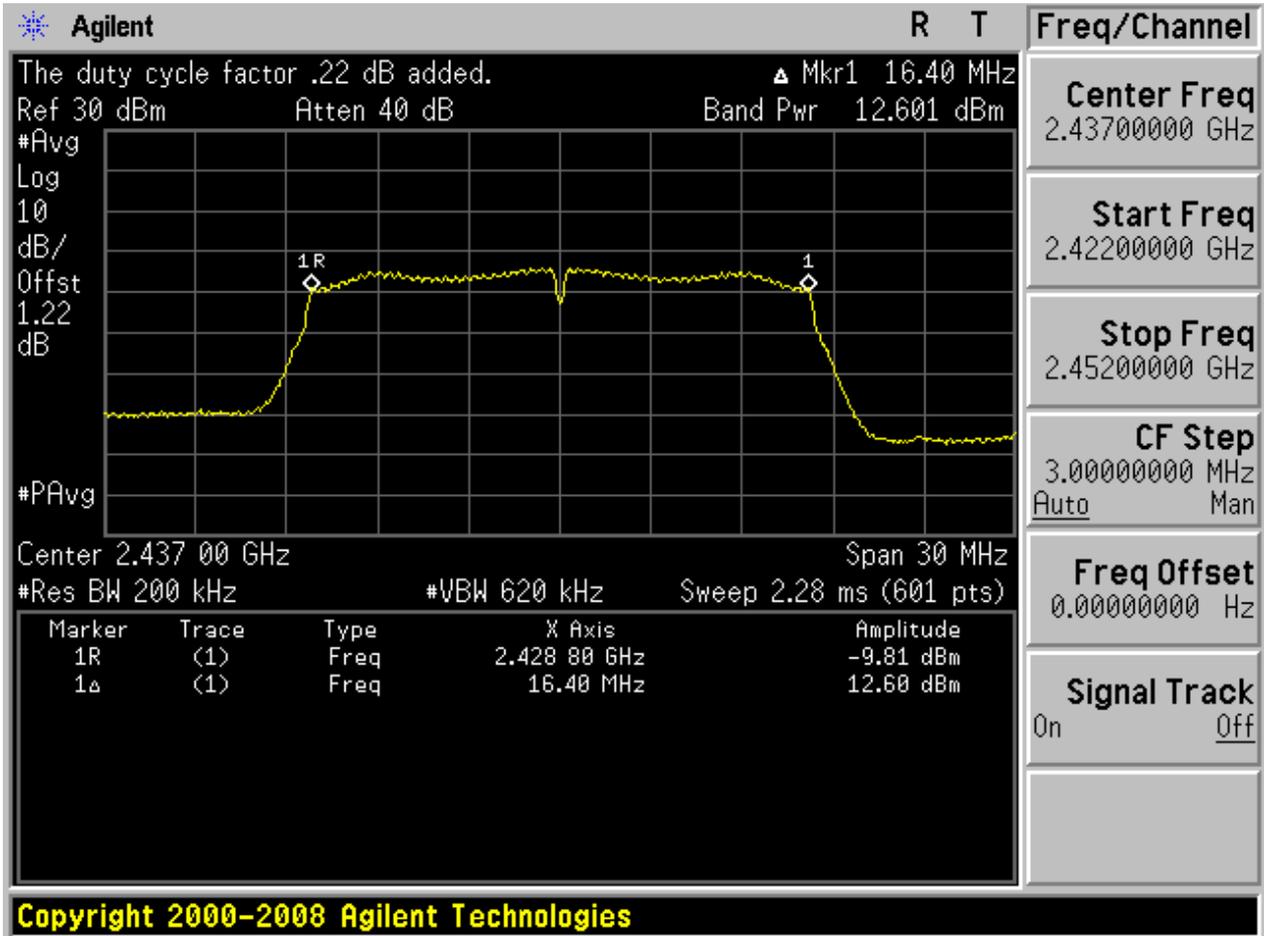
2.8 11G\_L@Ant 2



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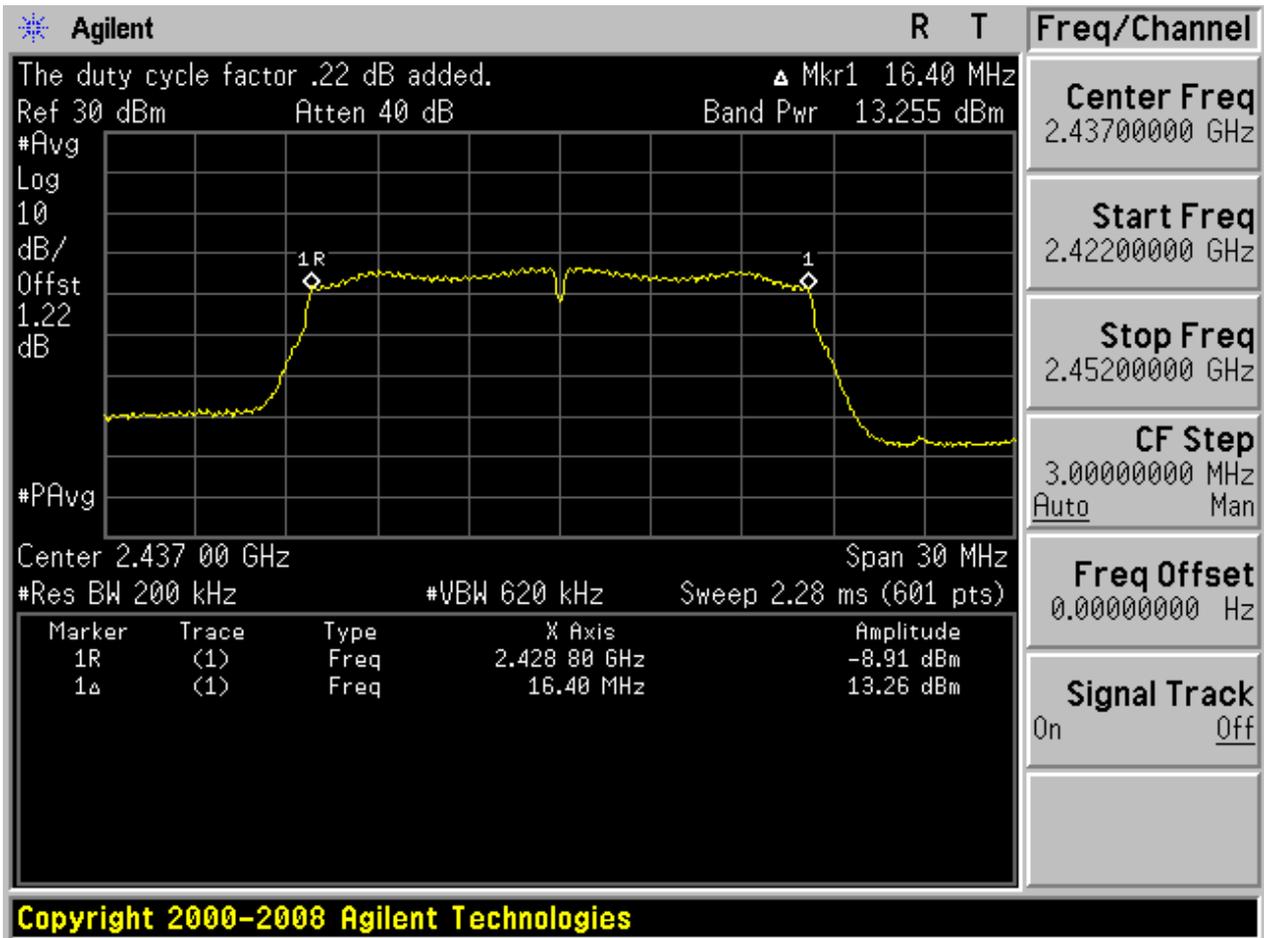
2.9 11G\_M@Ant 1



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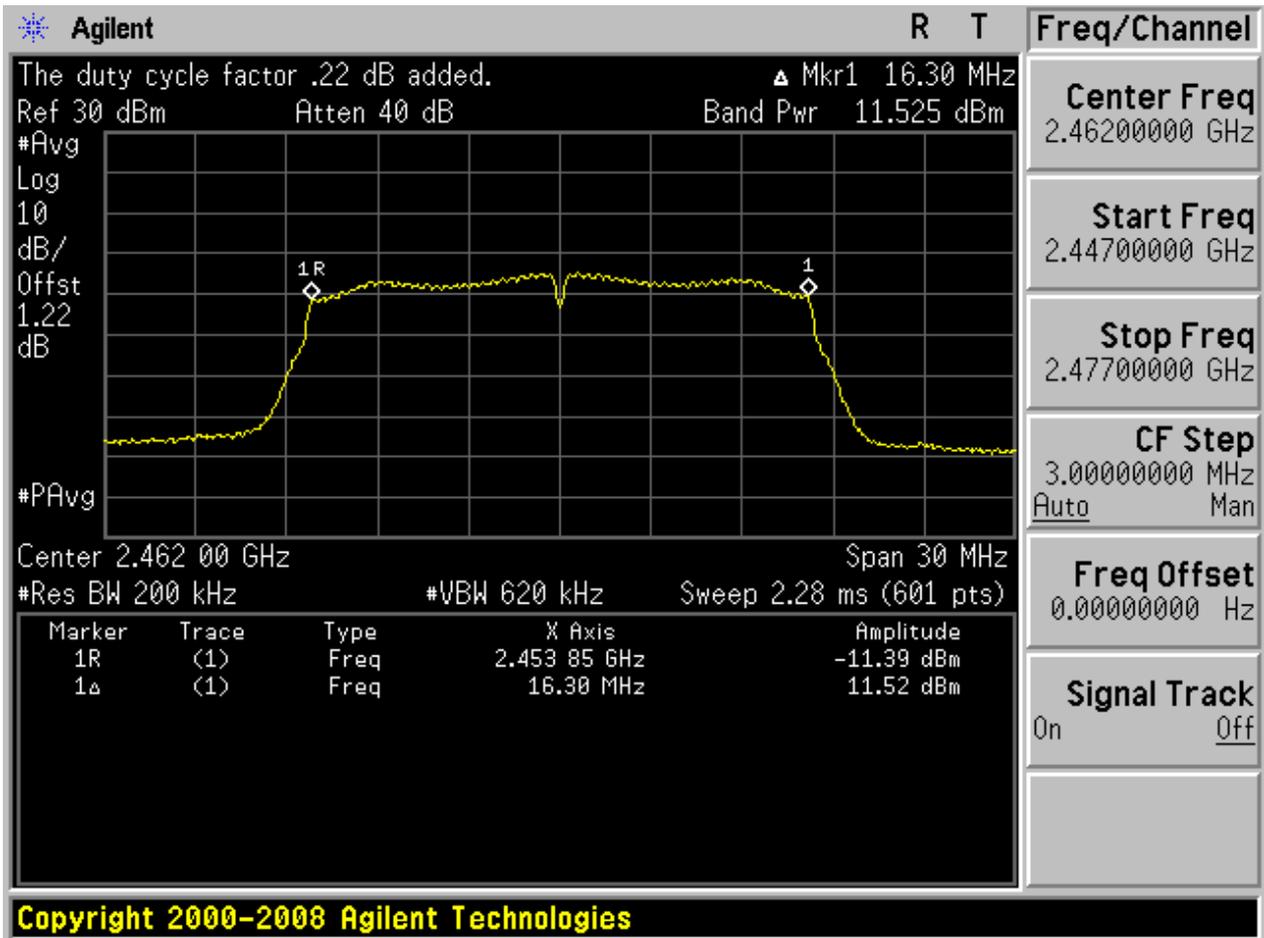


2.10 11G\_M@Ant 2





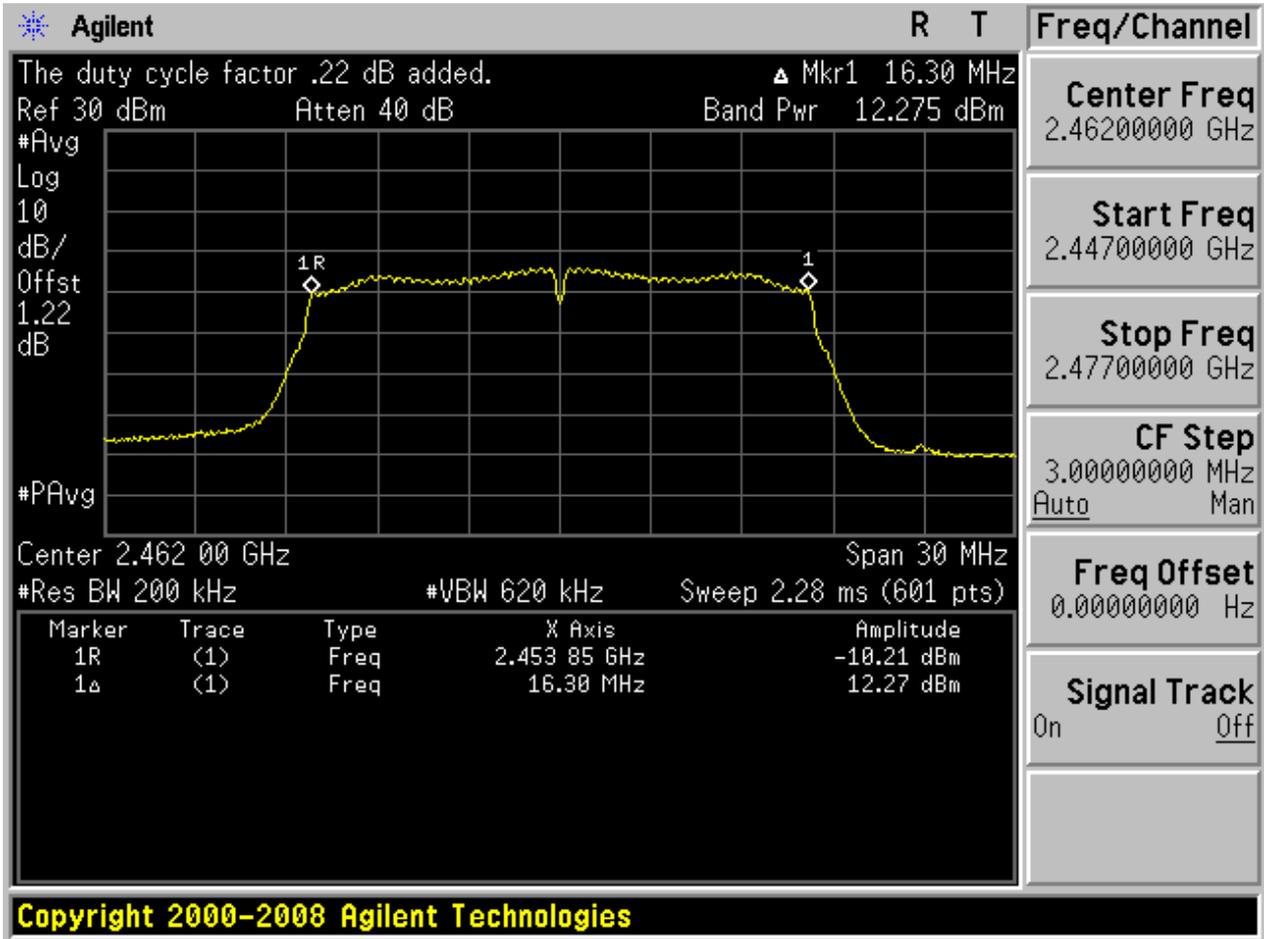
2.11 11G\_H@Ant 1



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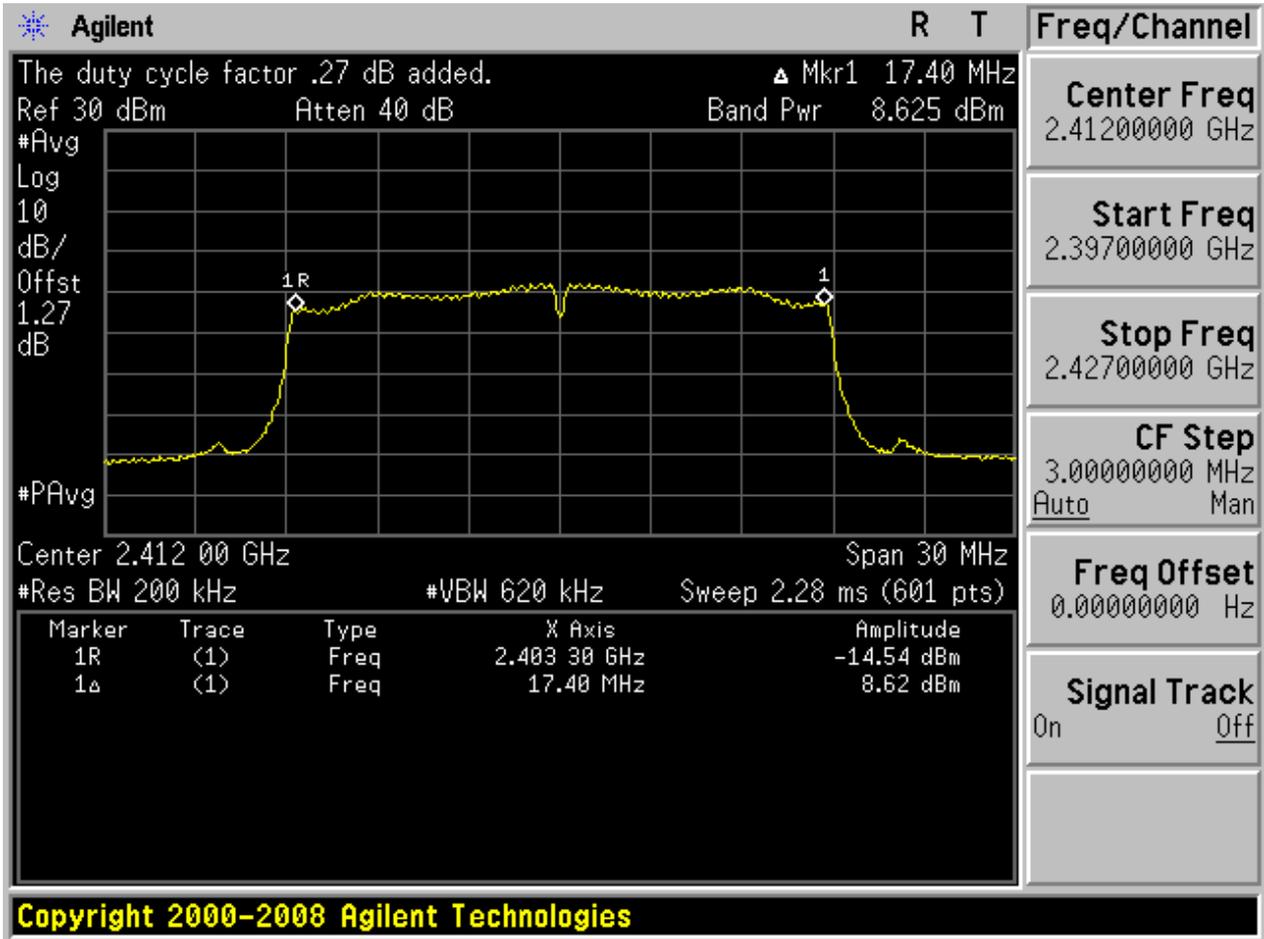


2.12 11G\_H@Ant 2

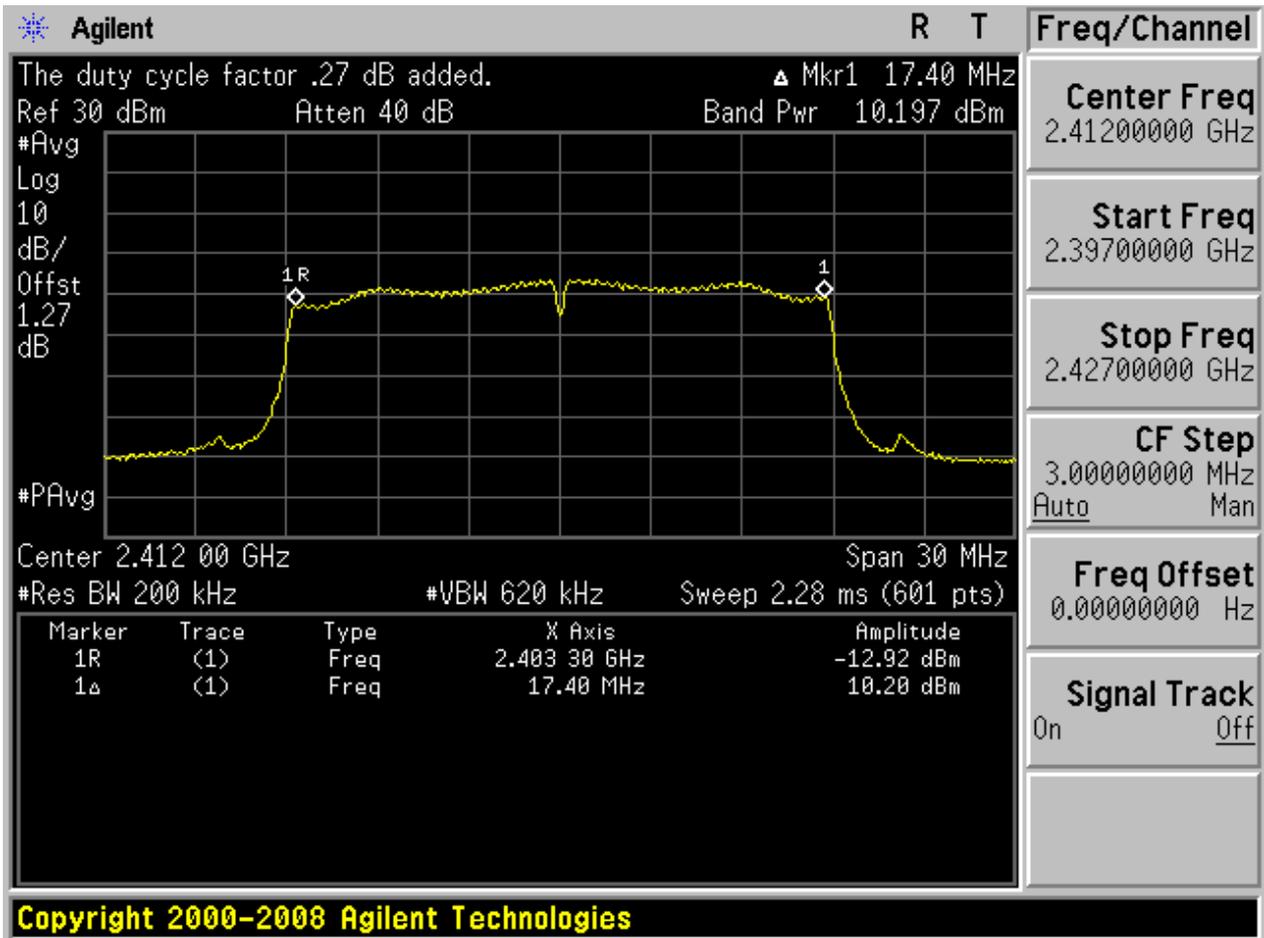




2.13 11N20\_L@Ant 1

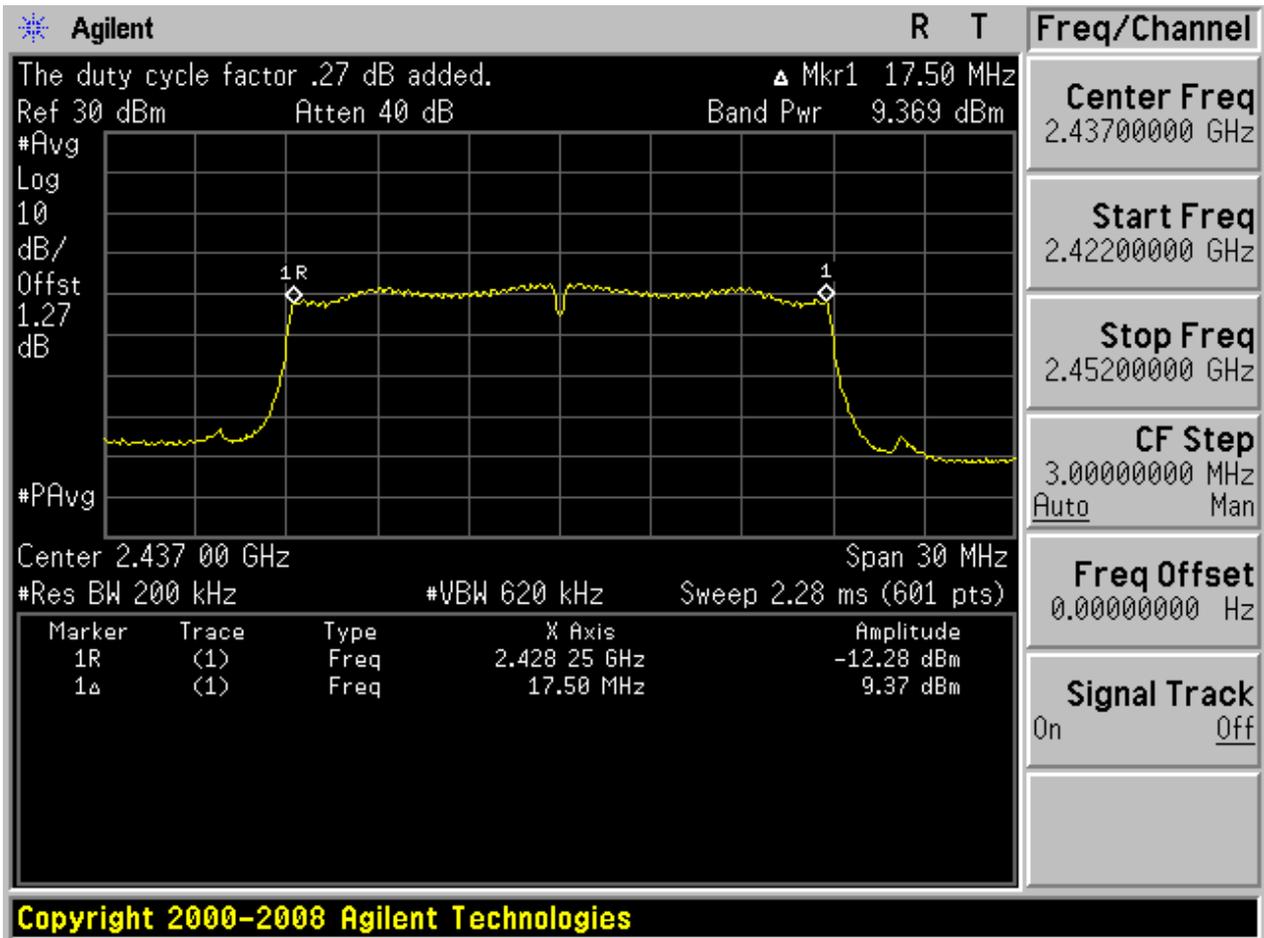


2.14 11N20\_L@Ant 2





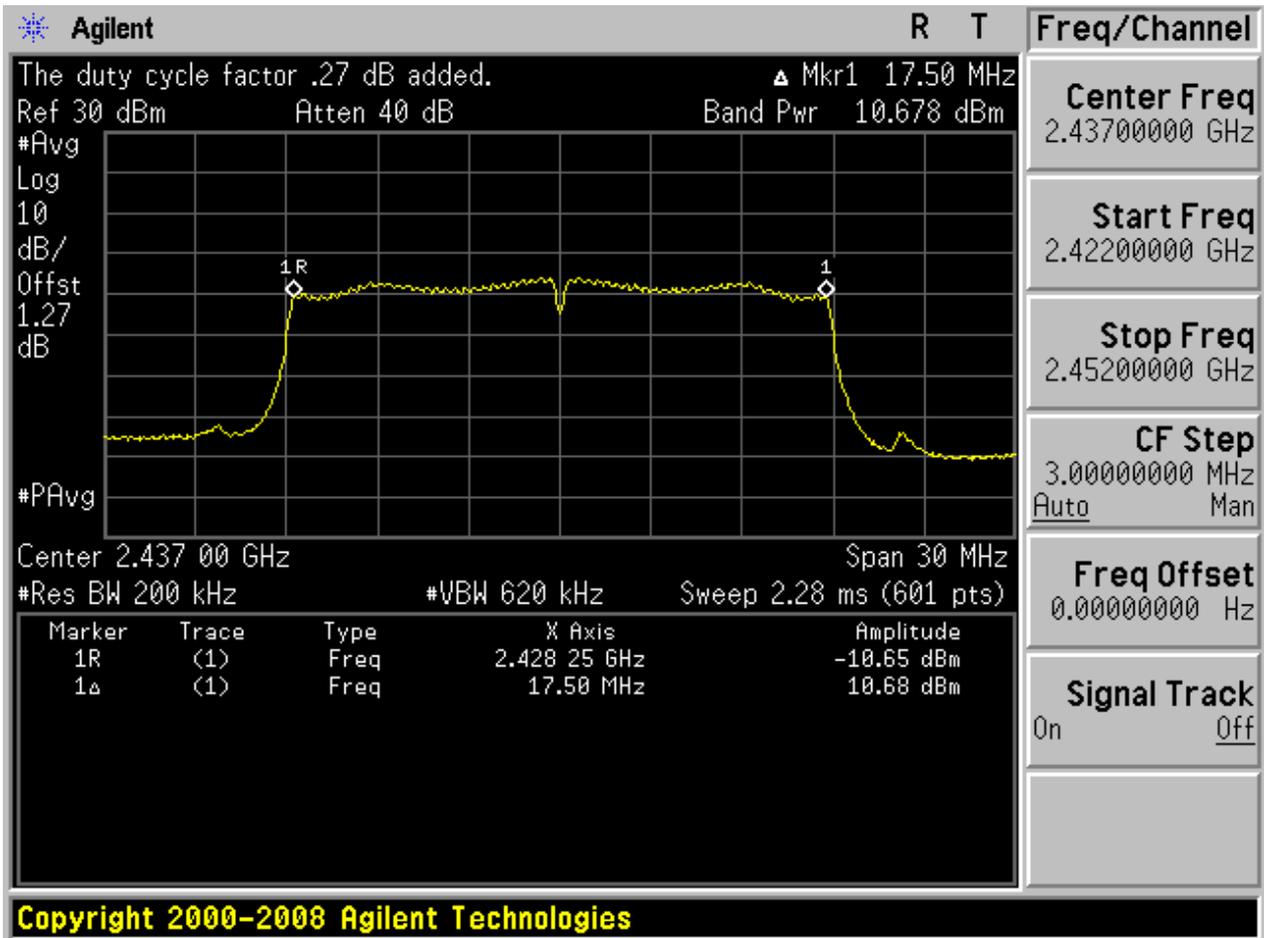
2.15 11N20\_M@Ant 1



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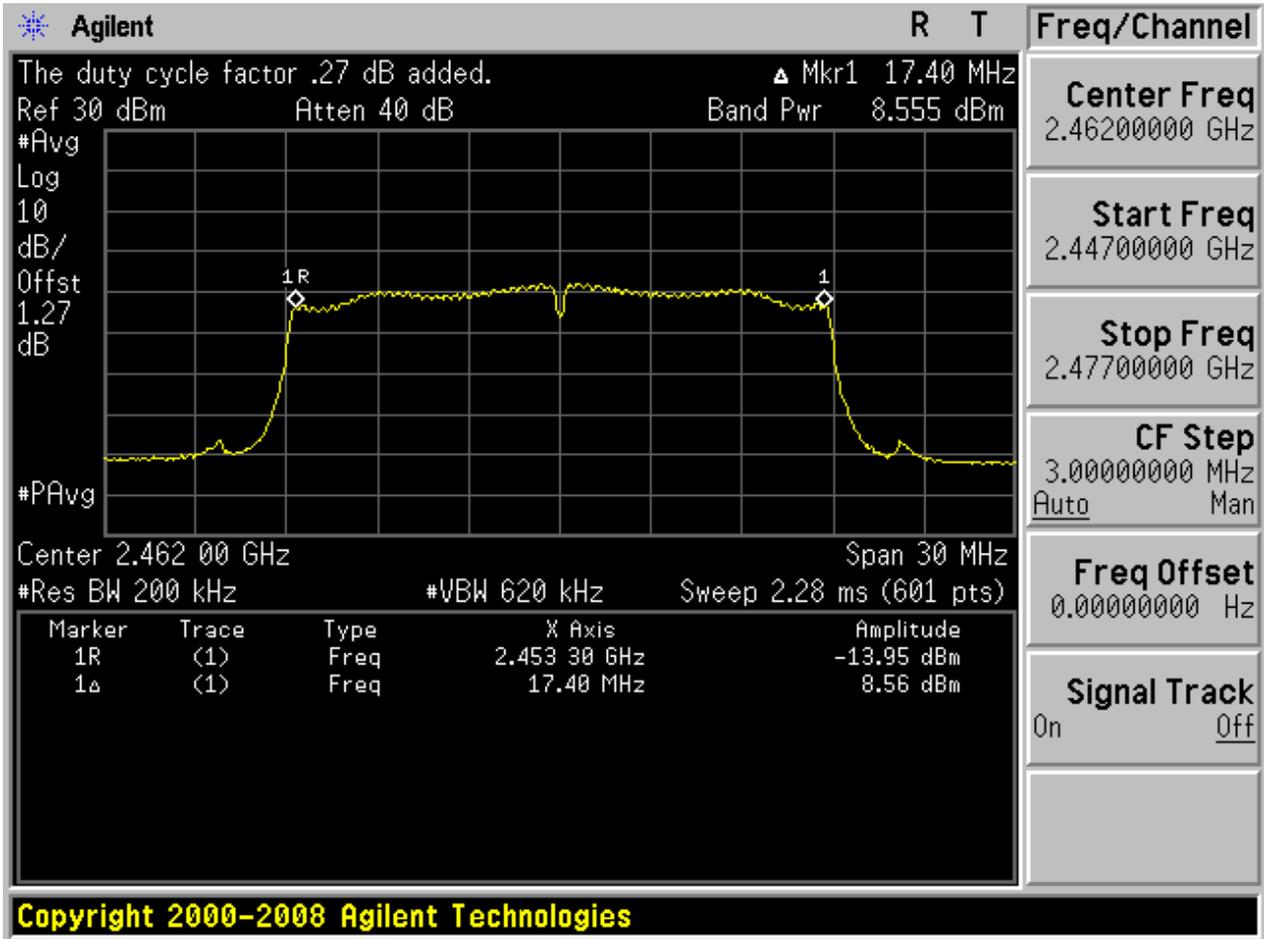


2.16 11N20\_M@Ant 2



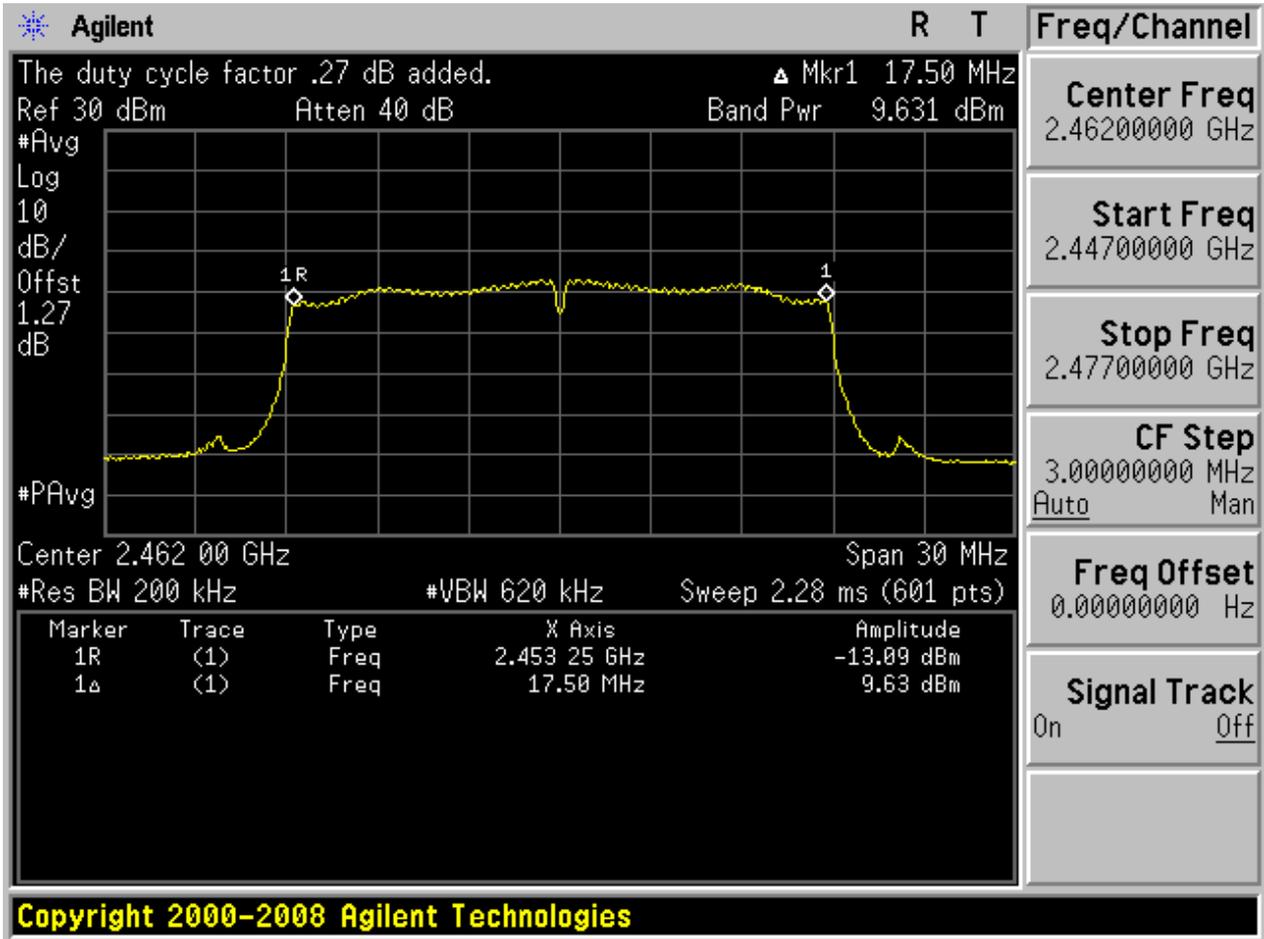


2.17 11N20\_H@Ant 1





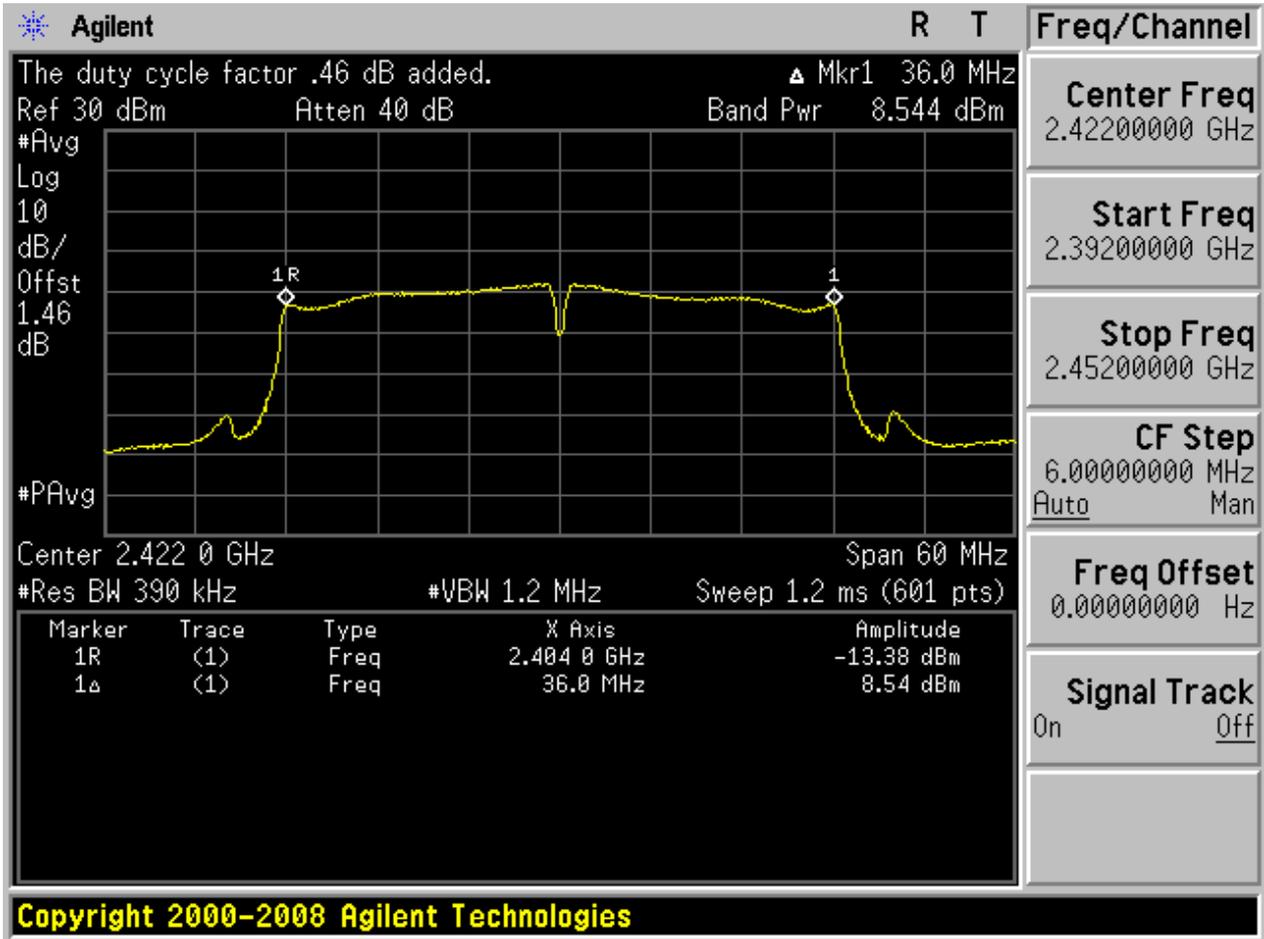
2.18 11N20\_H@Ant 2



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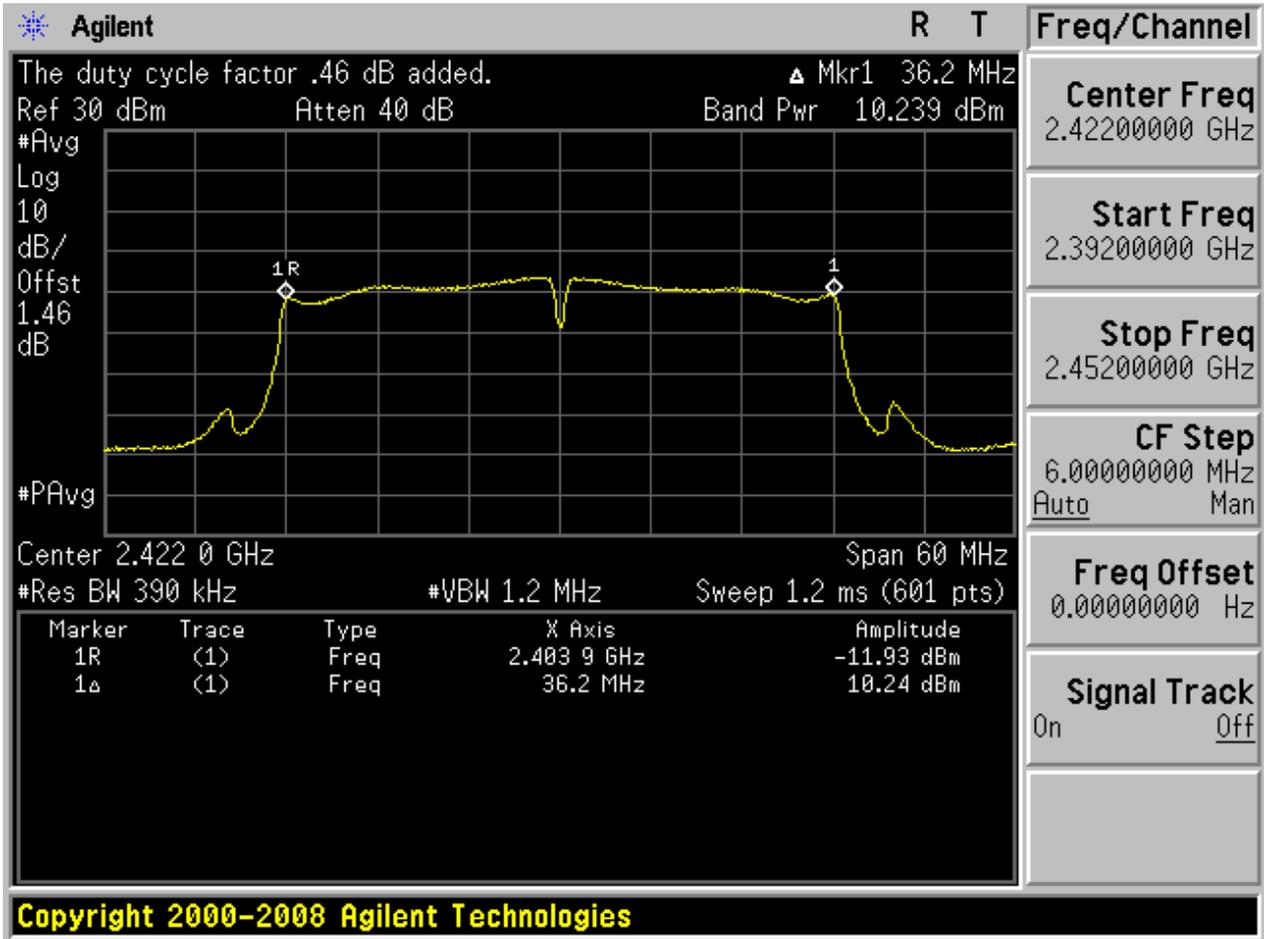


2.19 11N40\_L@Ant 1





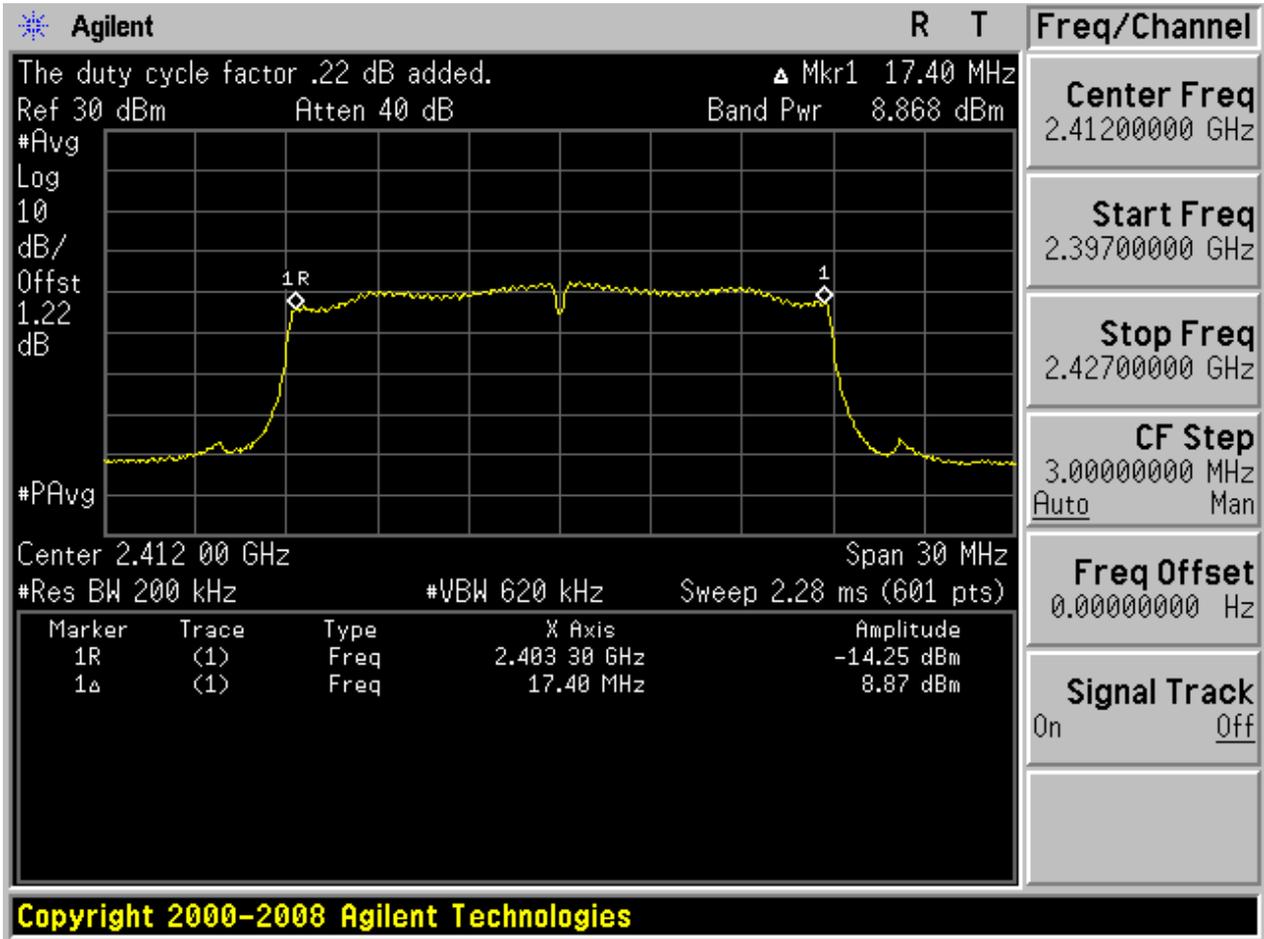
2.20 11N40\_L@Ant 2



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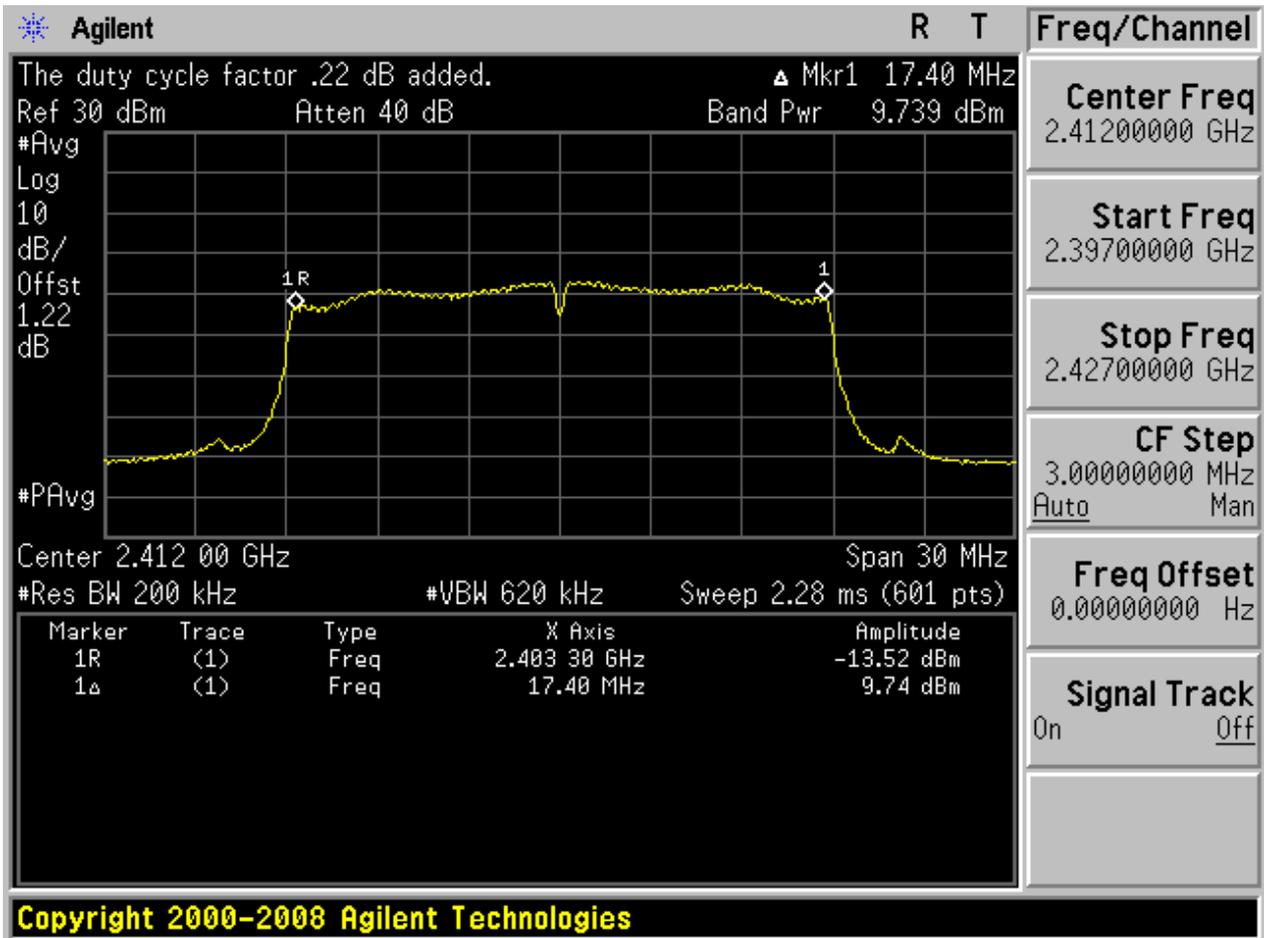
2.13 11N20m\_L@Ant 1



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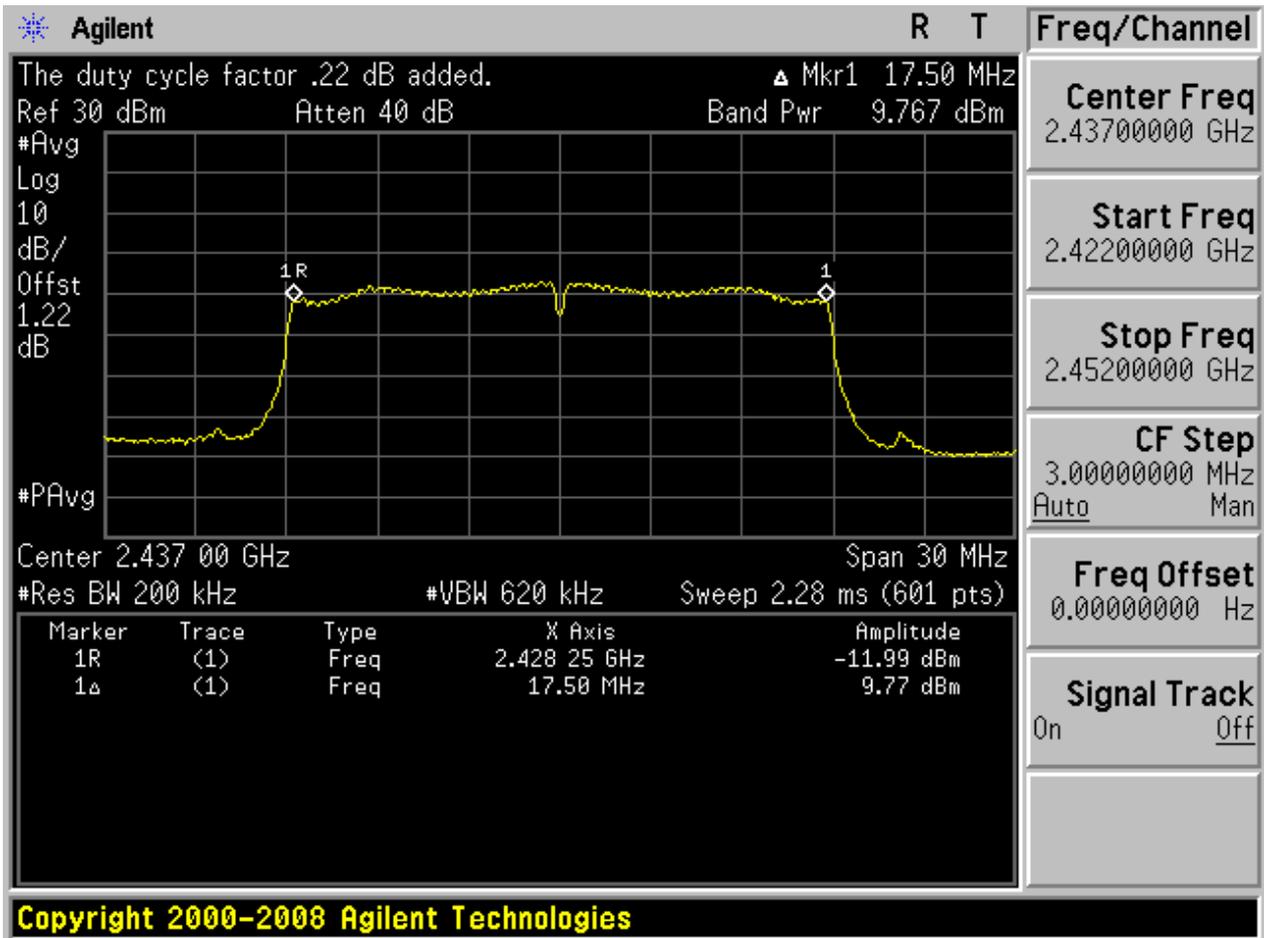
2.14 11N20m\_L@Ant 2



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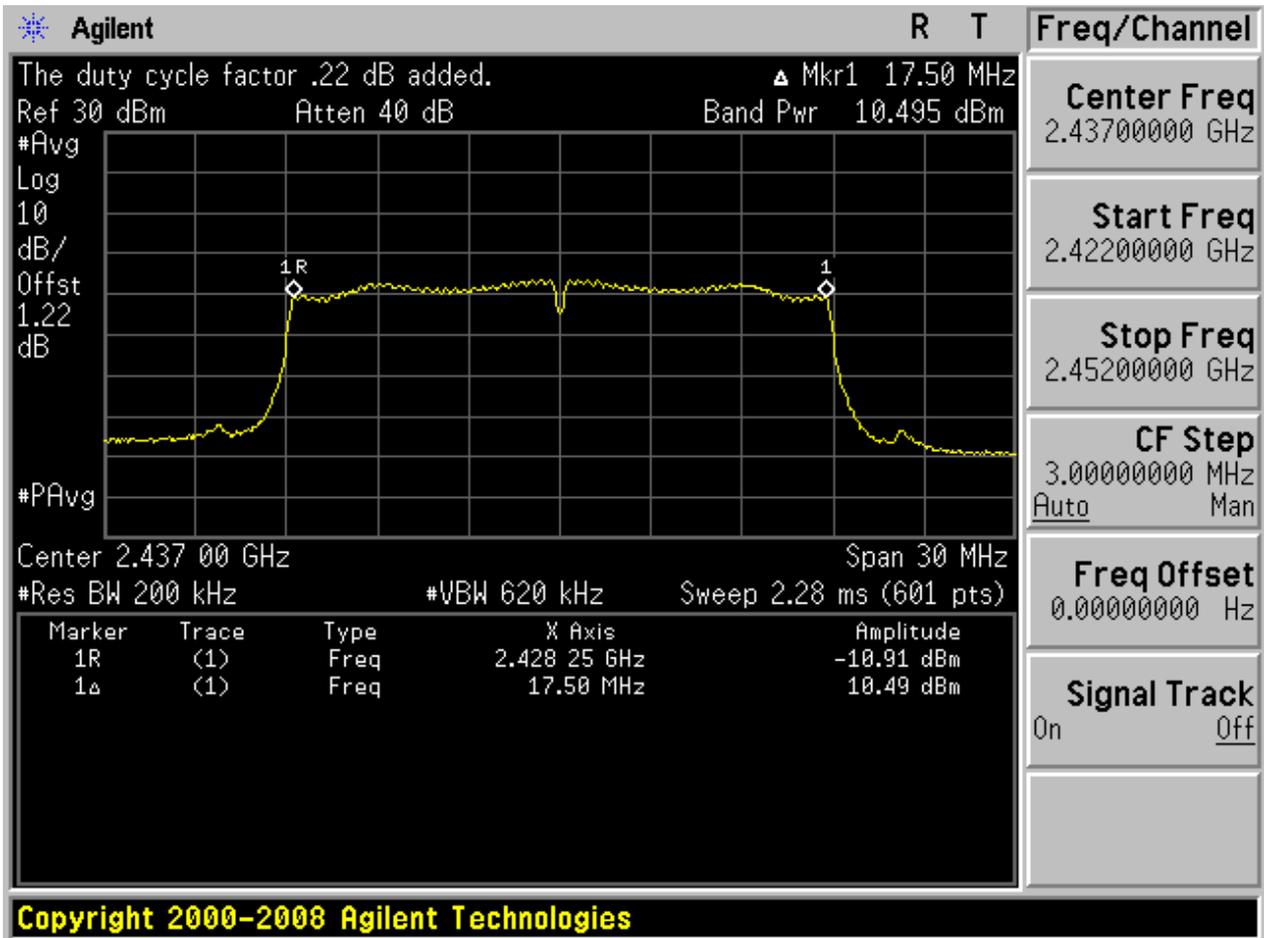


2.15 11N20m\_M@Ant 1



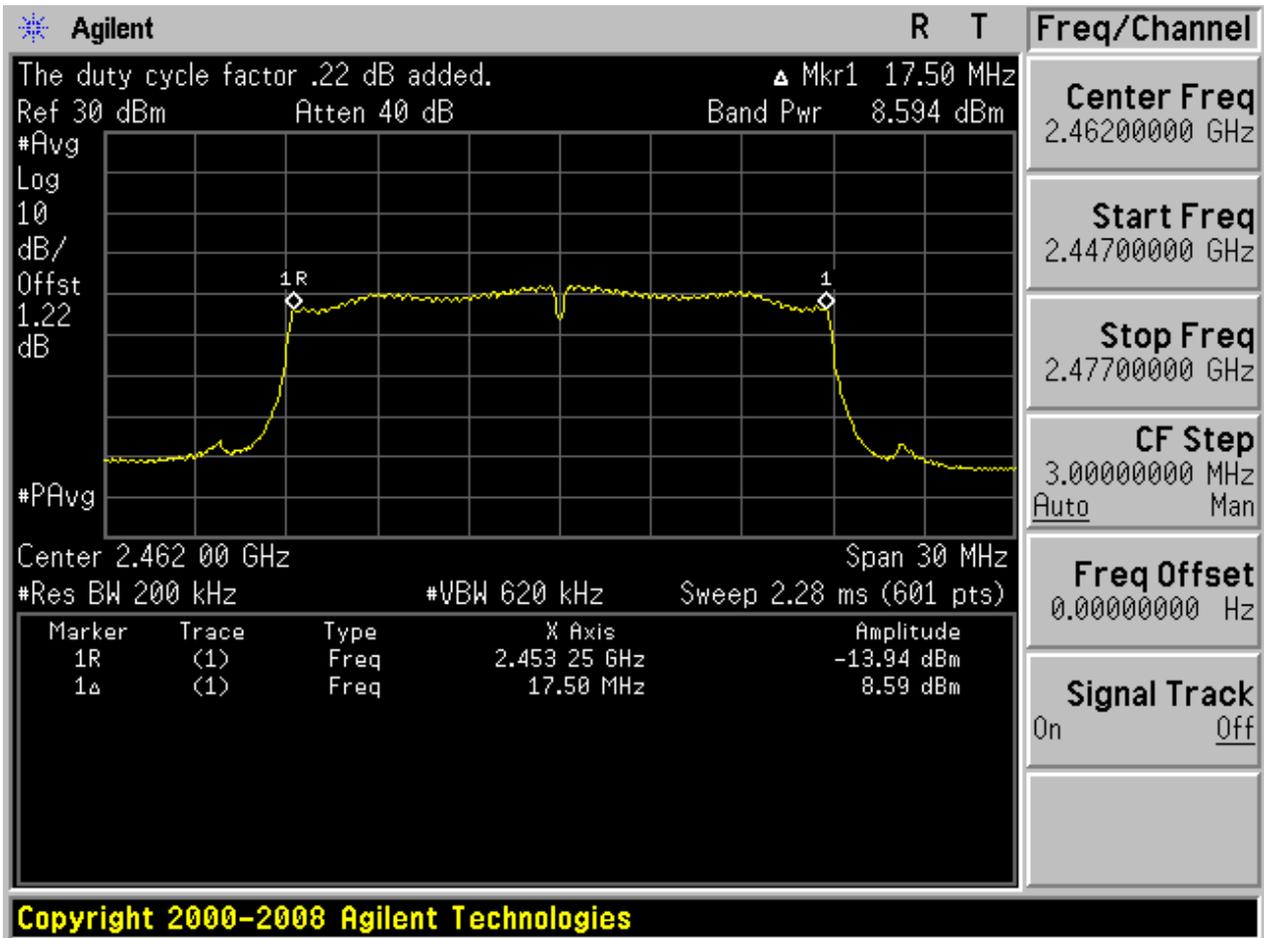


2.16 11N20m\_M@Ant 2





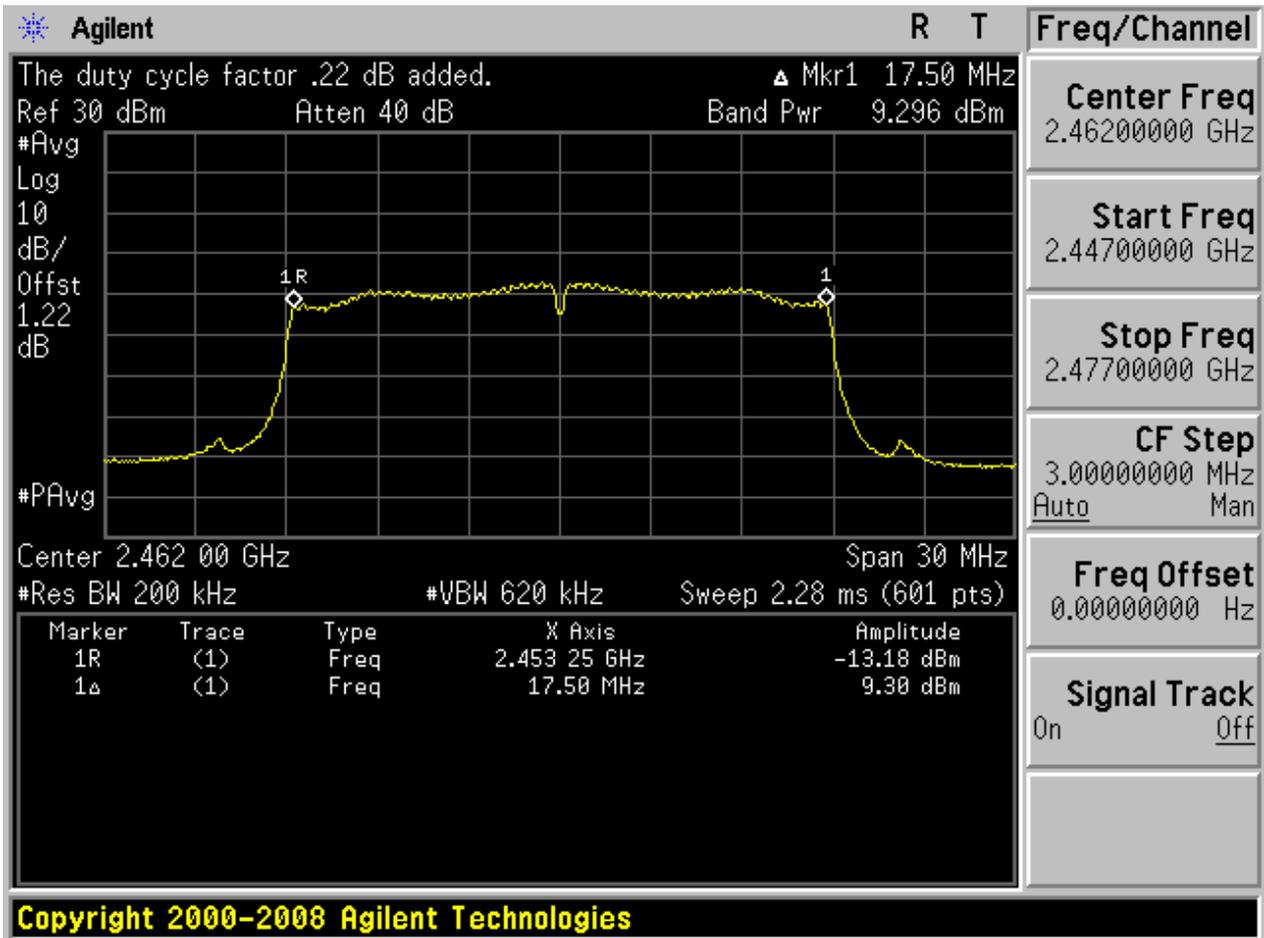
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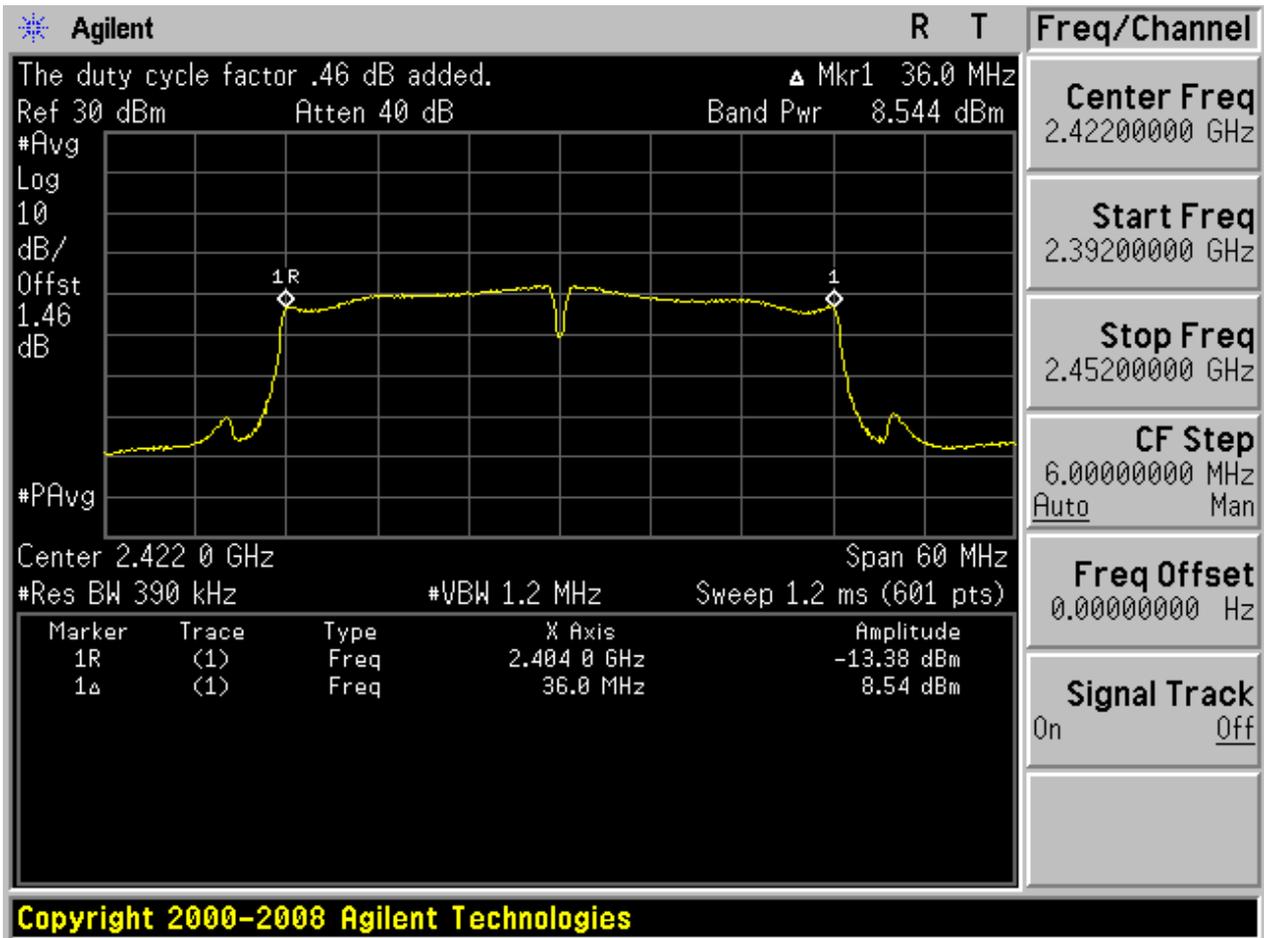


2.18 11N20m\_H@Ant 2



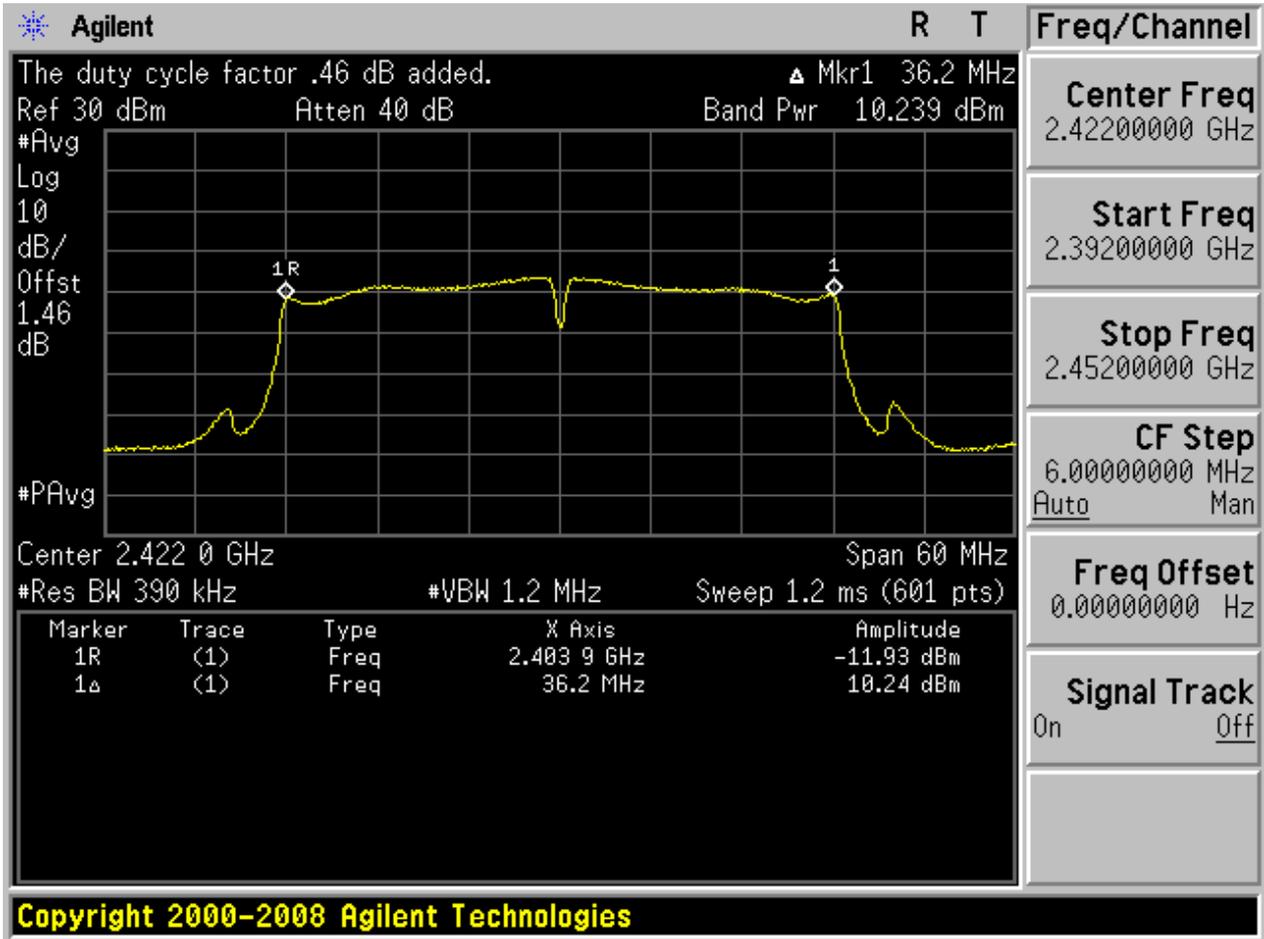


2.19 11N40\_L@Ant 1





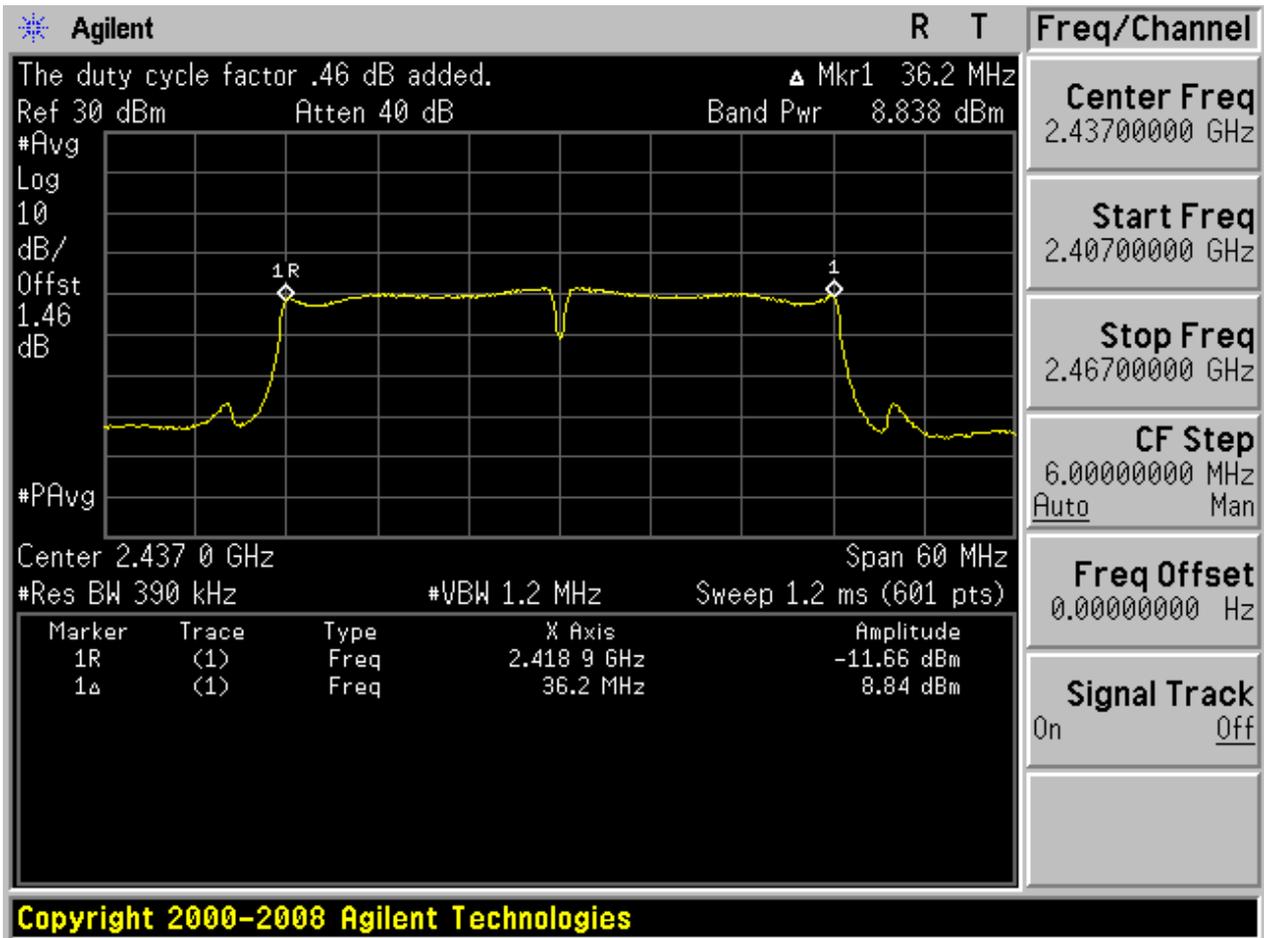
2.20 11N40\_L@Ant 2



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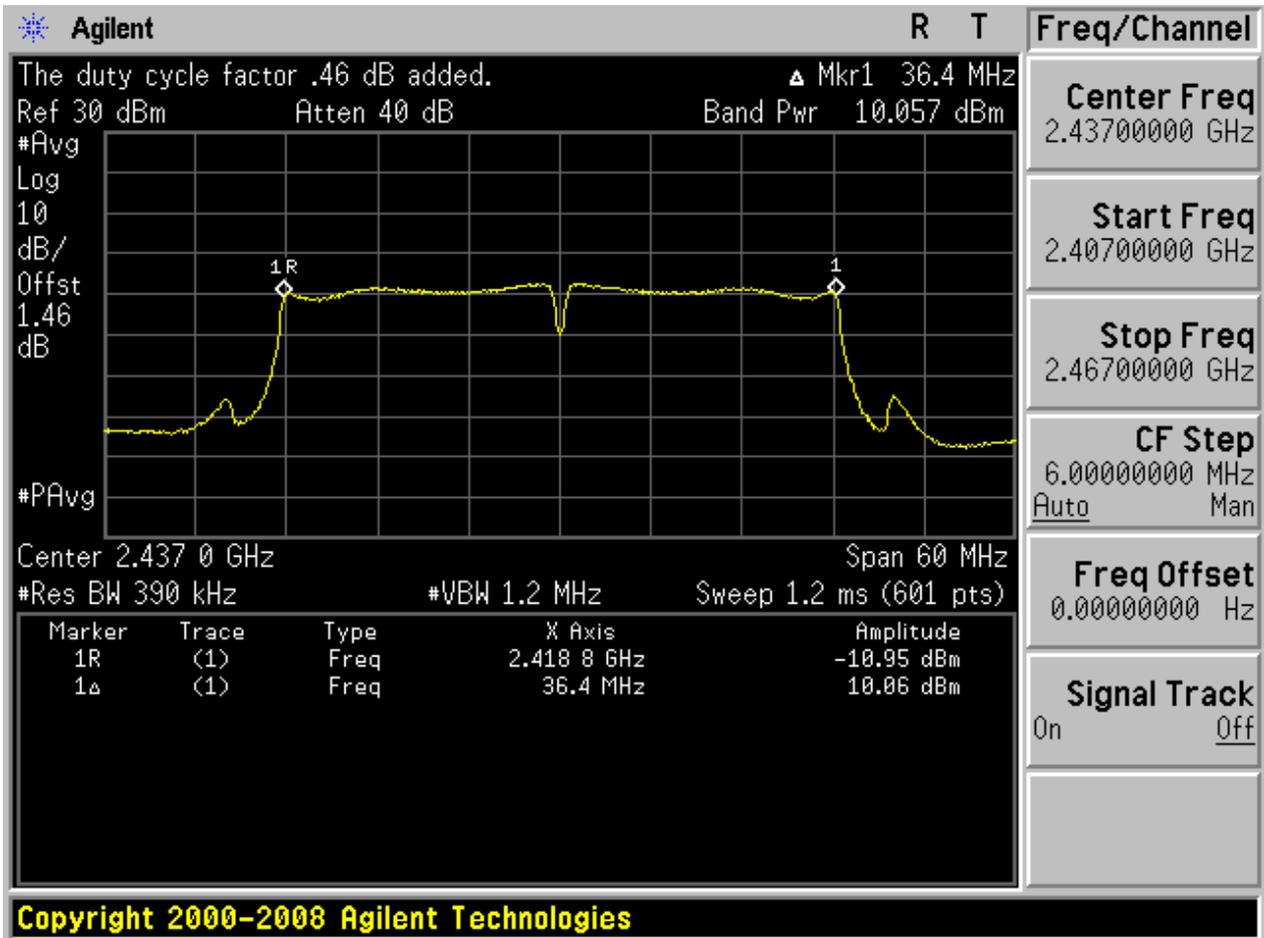
2.21 11N40\_M@Ant 1



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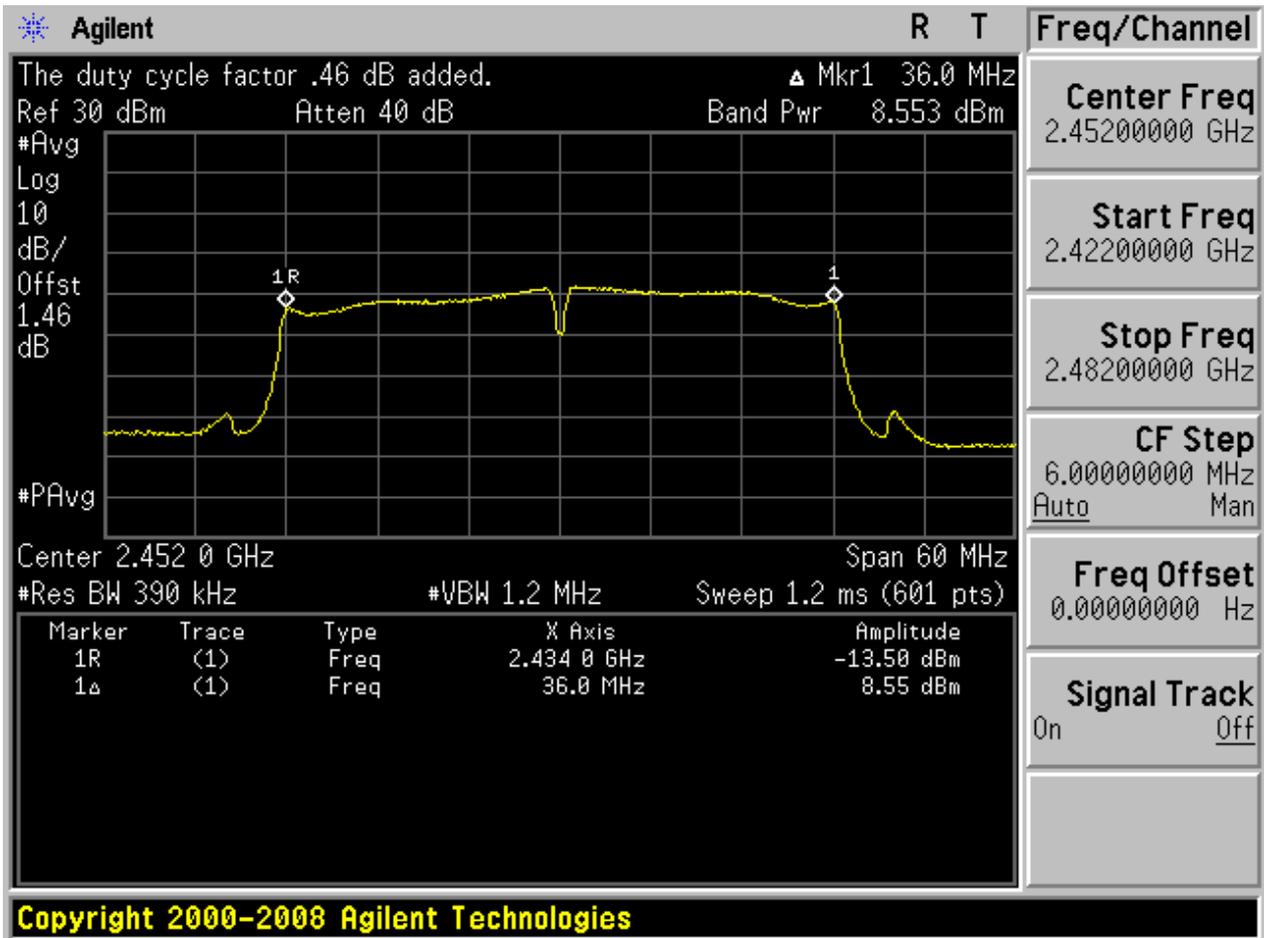
2.22 11N40\_M@Ant 2



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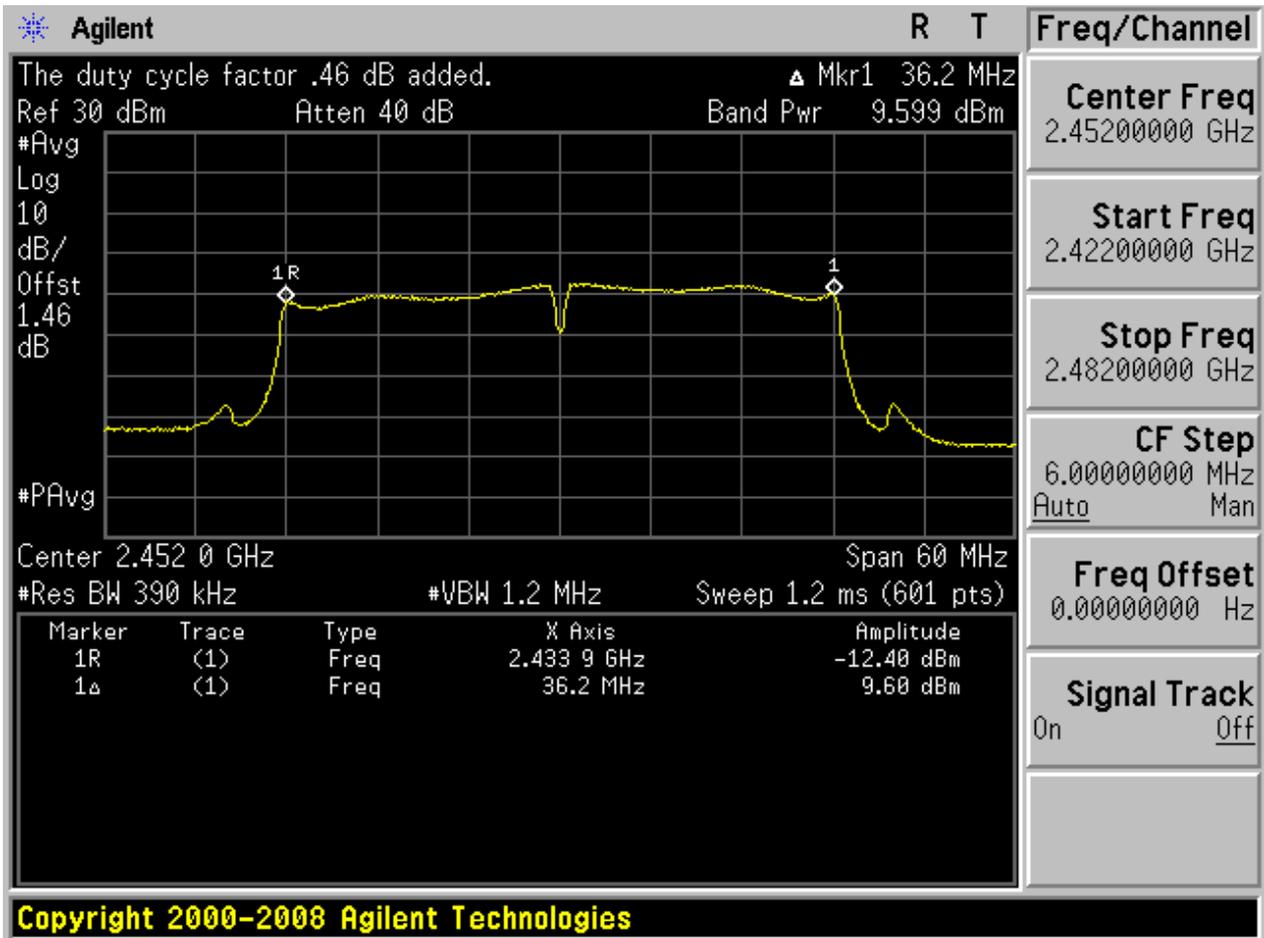
2.23 11N40\_H@Ant 1



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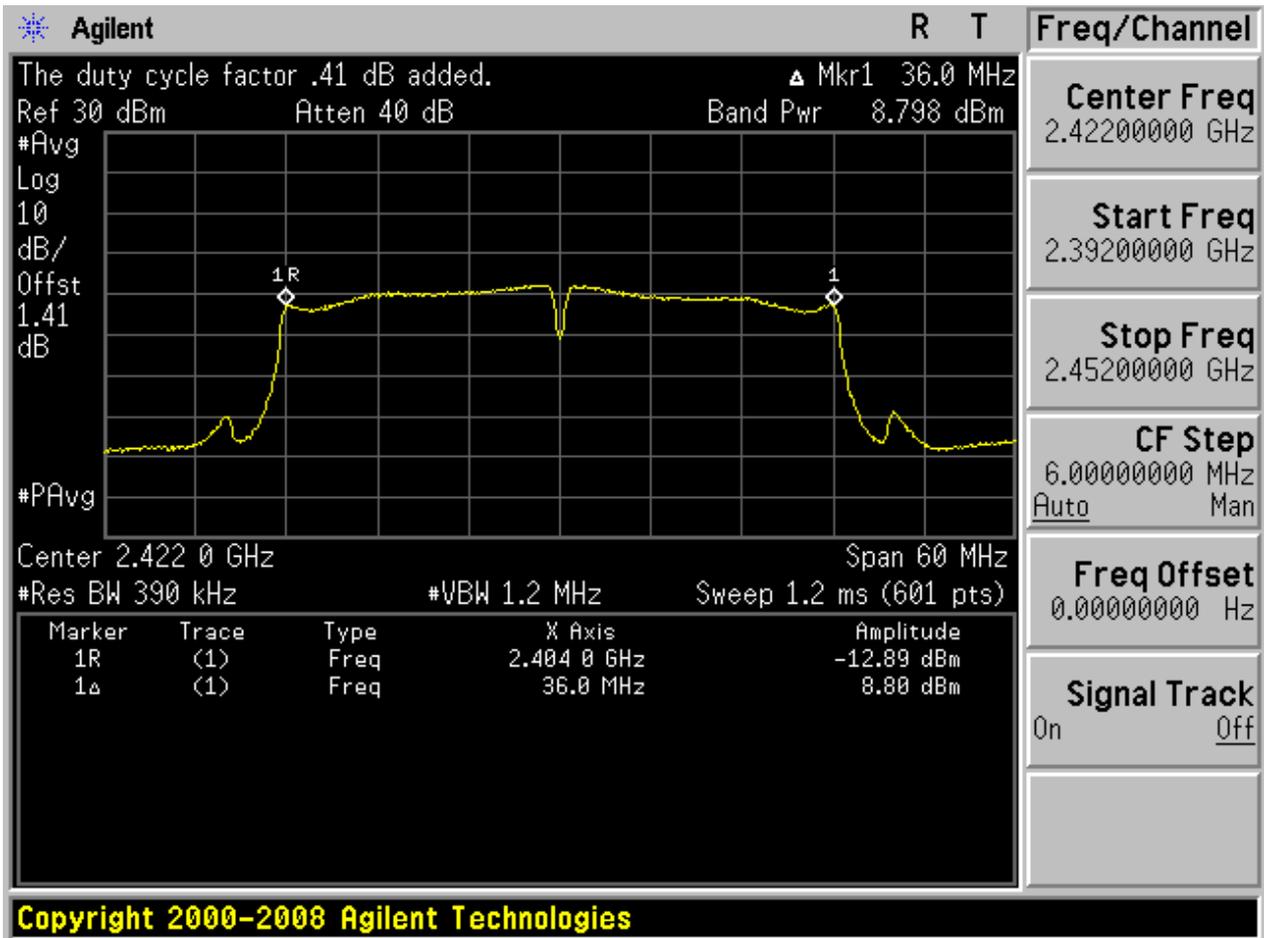
2.24 11N40\_H@Ant 2



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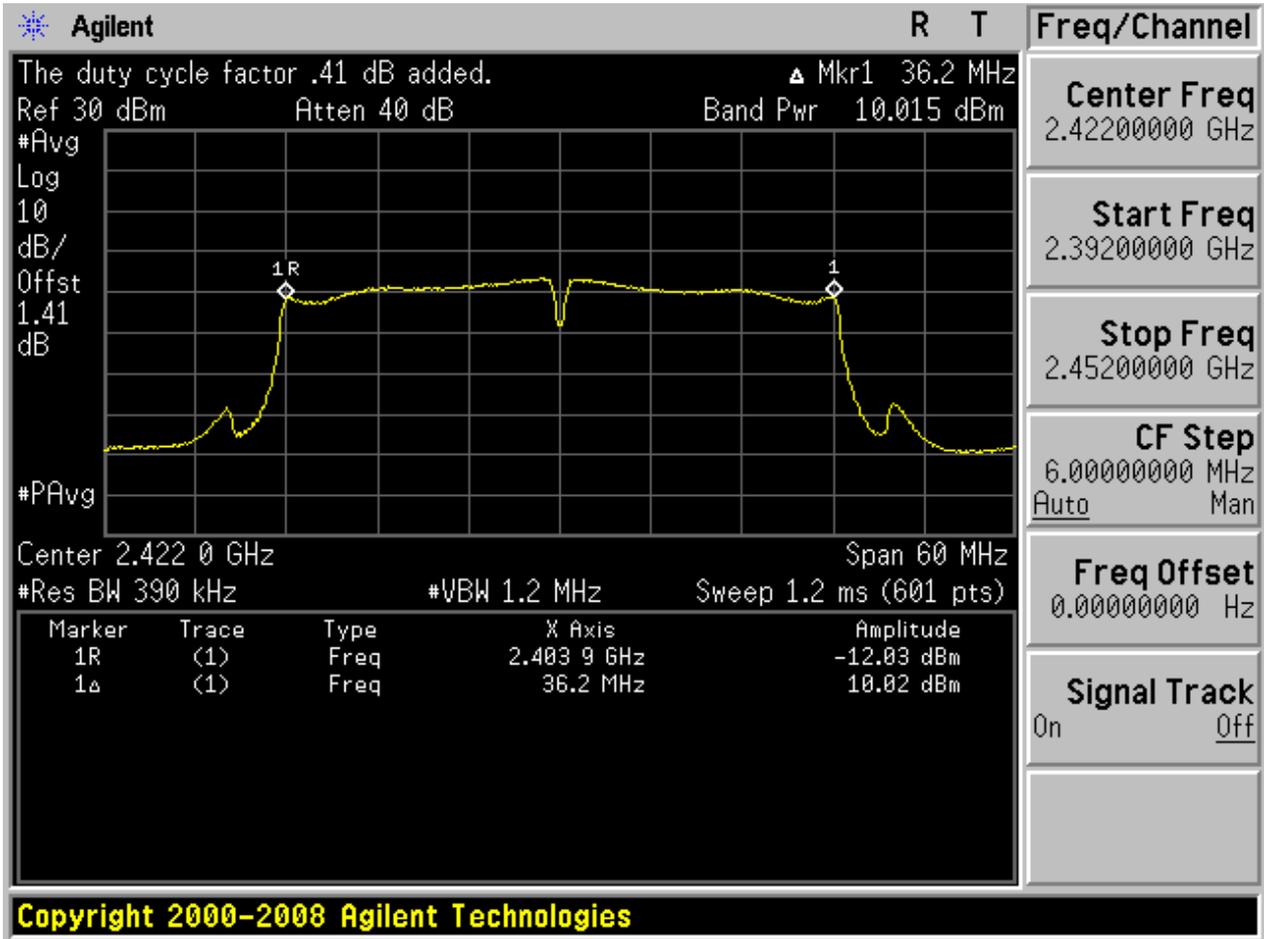


2.31 11N40m\_L@Ant 1





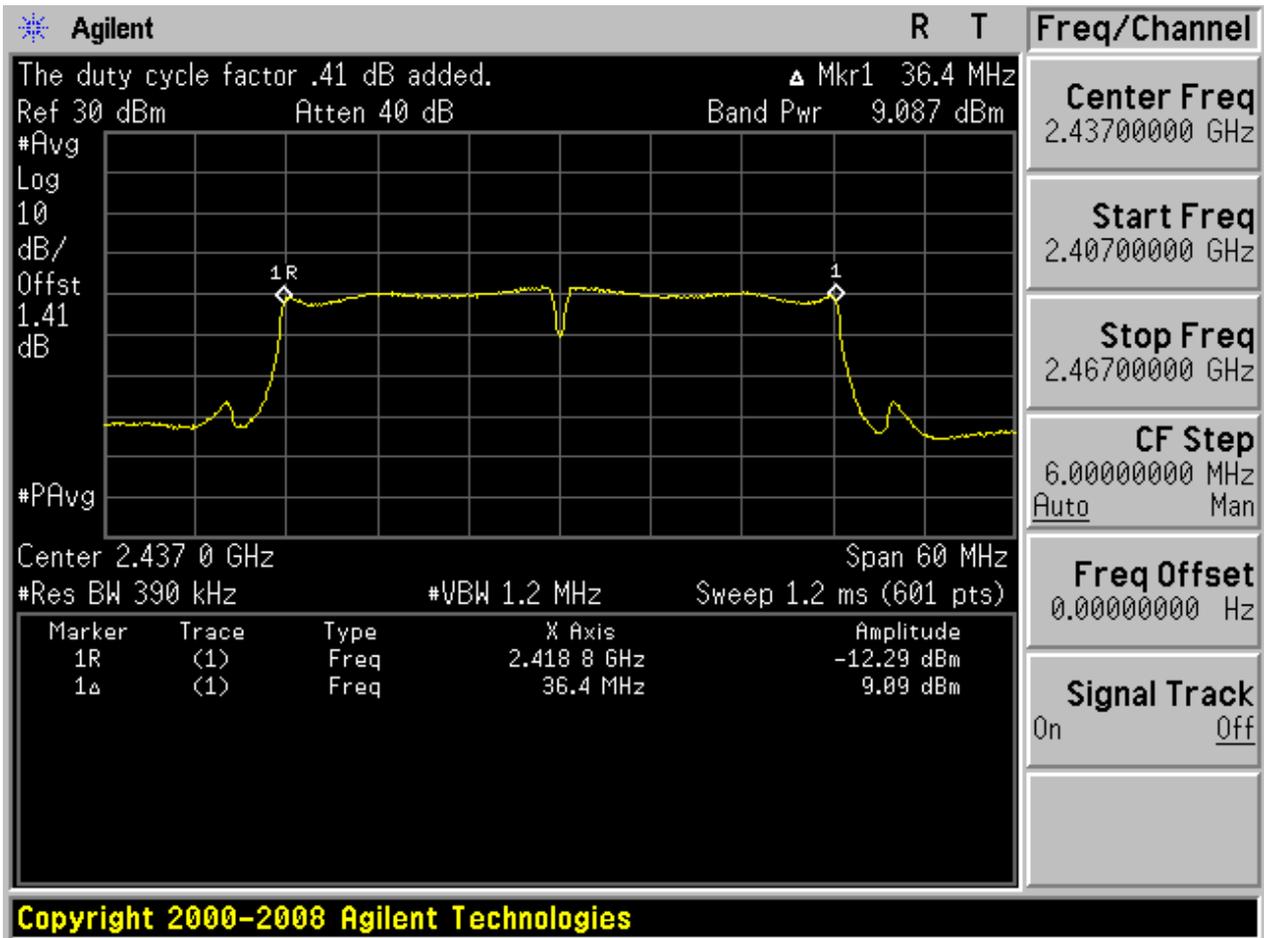
2.32 11N40m\_L@Ant 2



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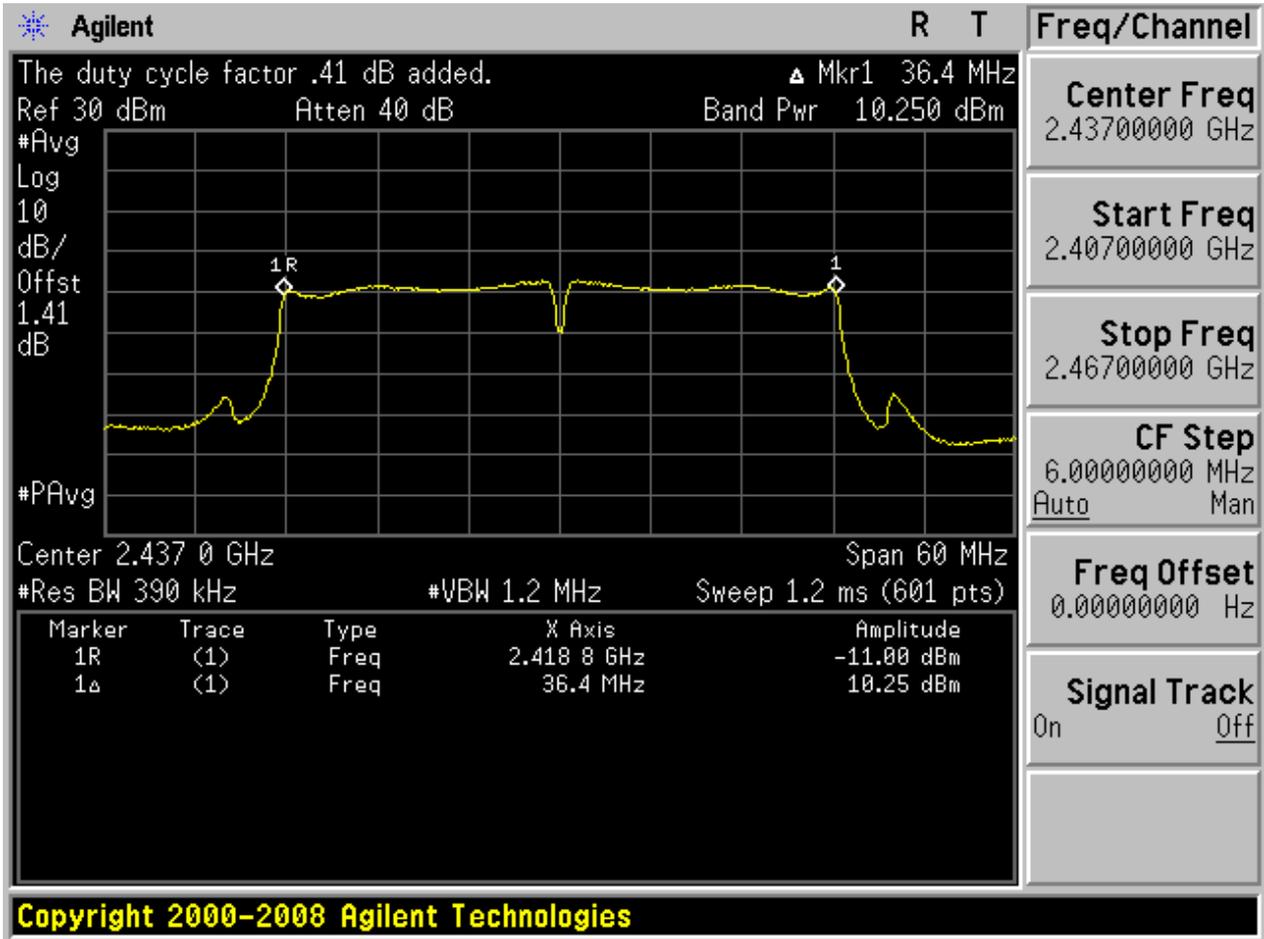
2.33 11N40m\_M@Ant 1



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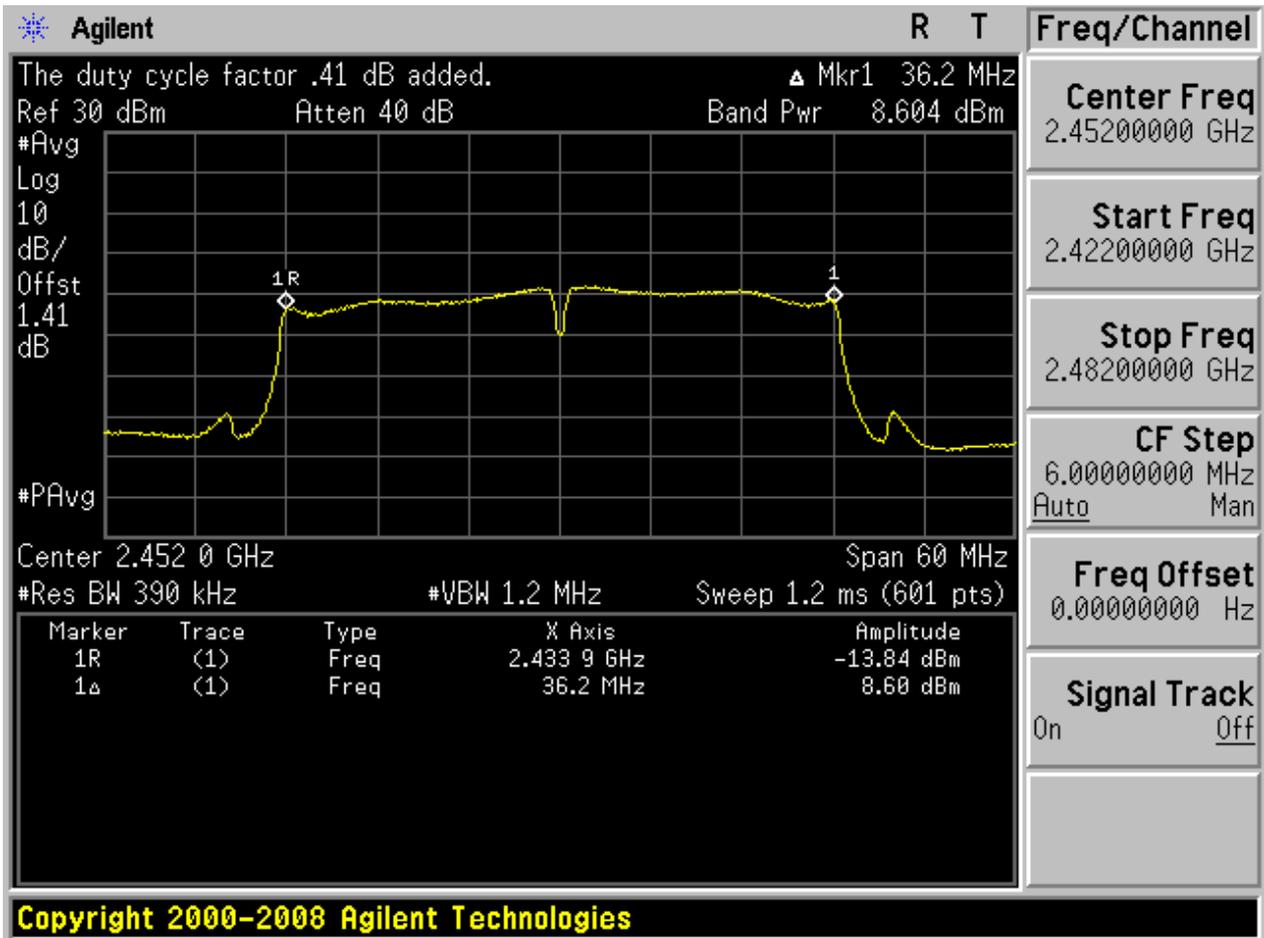
2.34 11N40m\_M@Ant 2



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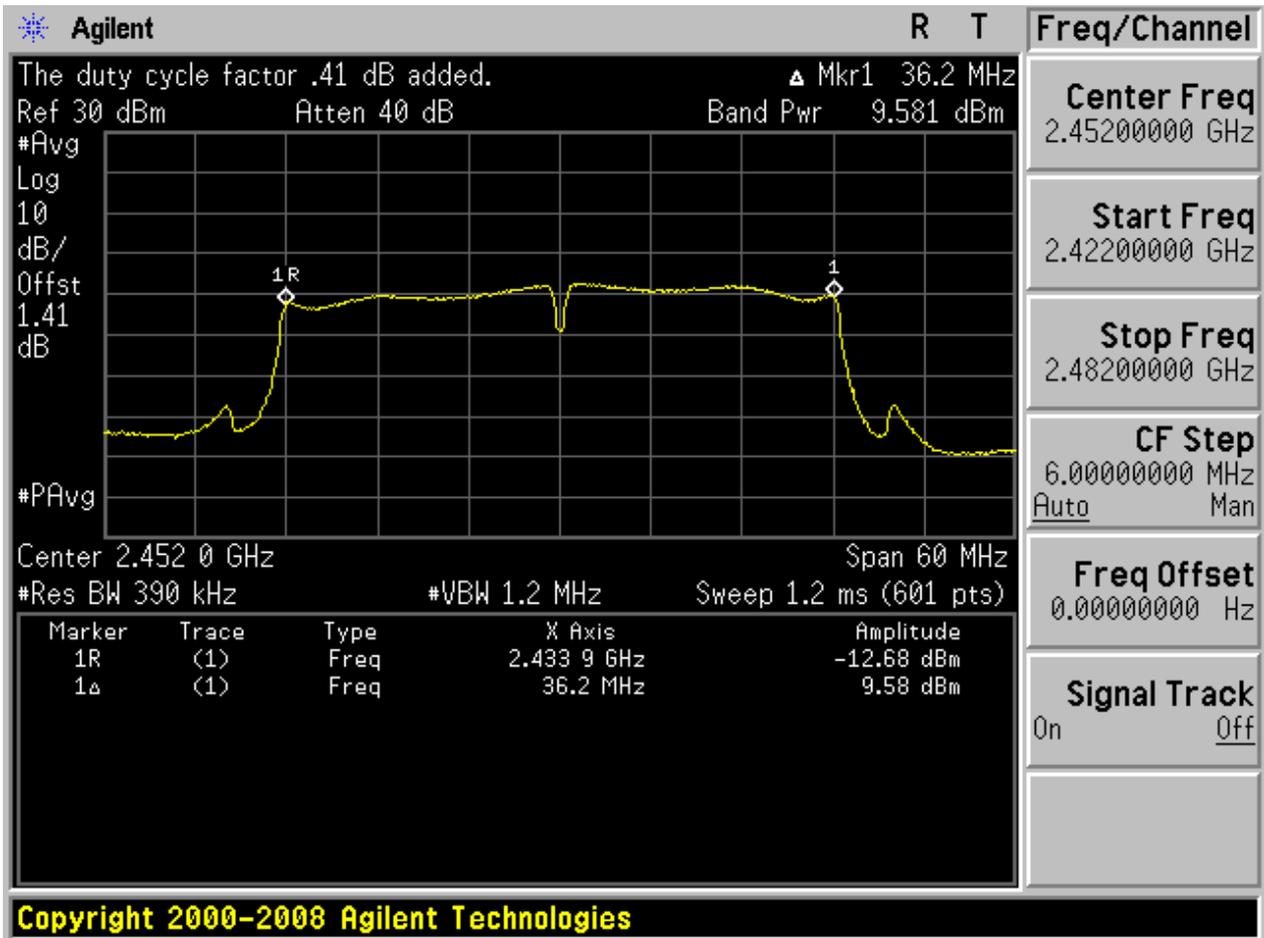


2.35 11N40m\_H@Ant 1





2.36 11N40m\_H@Ant 2



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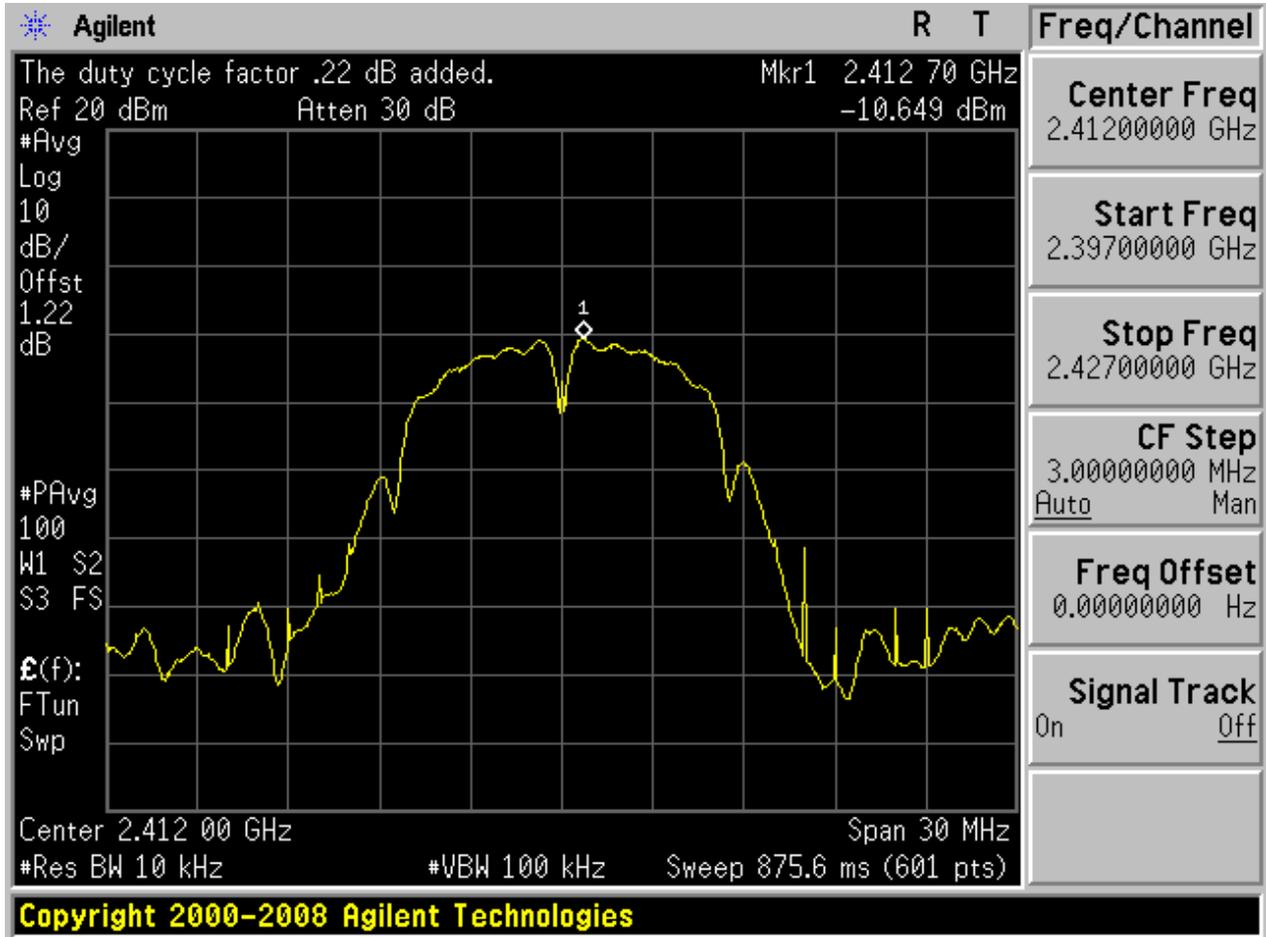
## Appendix D: Maximum Power Spectral Density Level

### Part I - Test Results

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

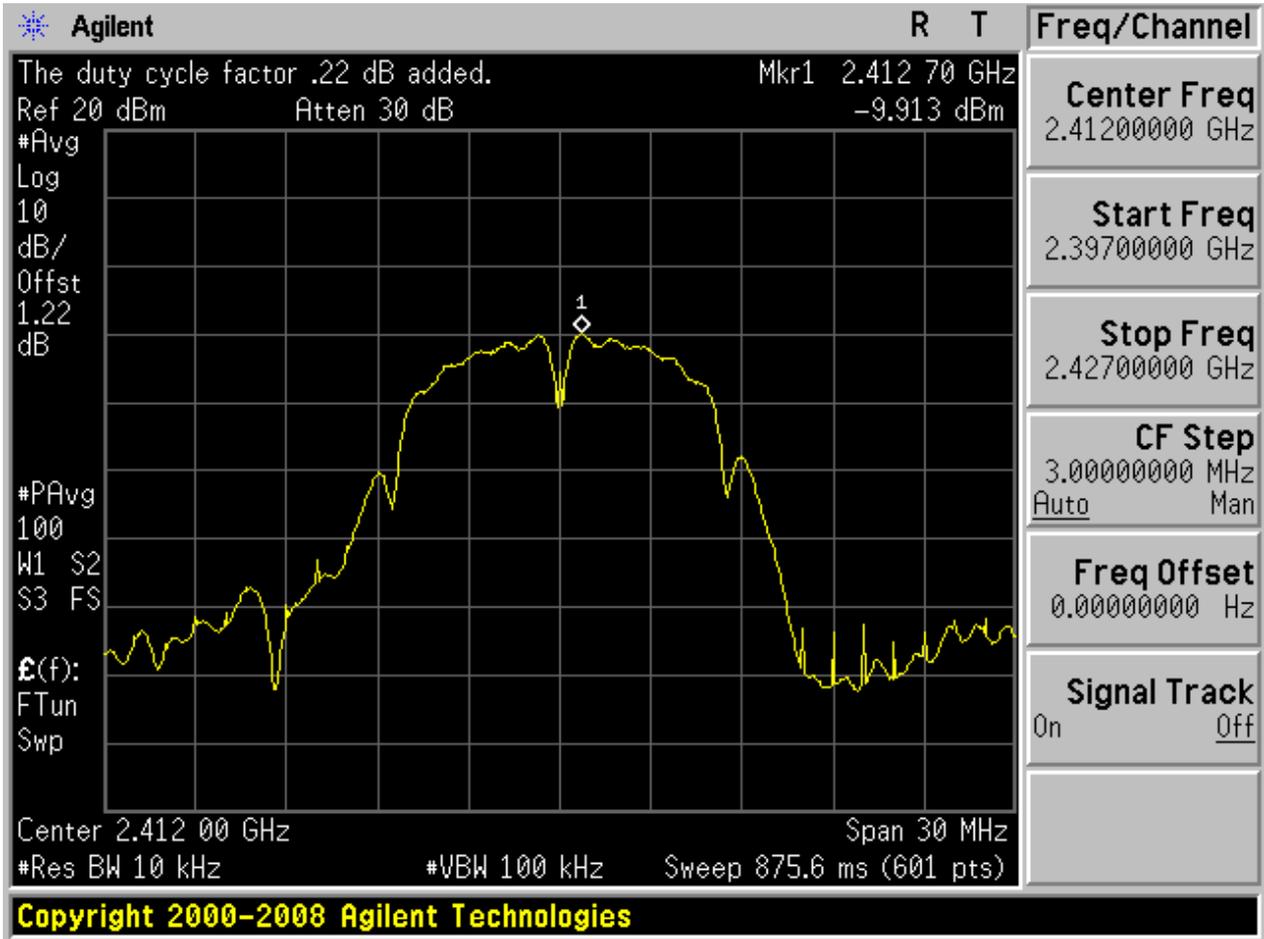
Part II - Test Plots

2.1 11B\_L@Ant 1



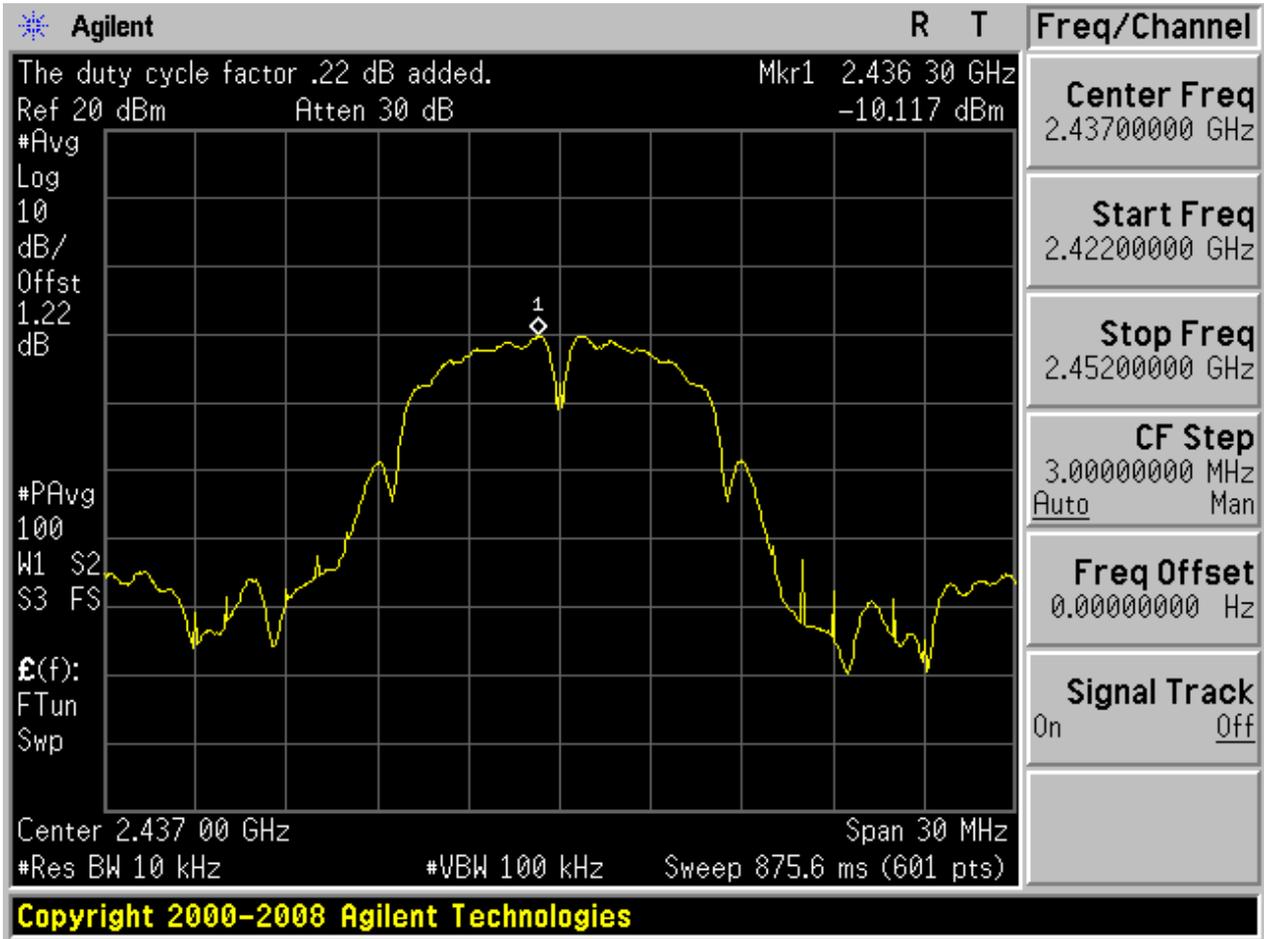


2.2 11B\_L@Ant 2



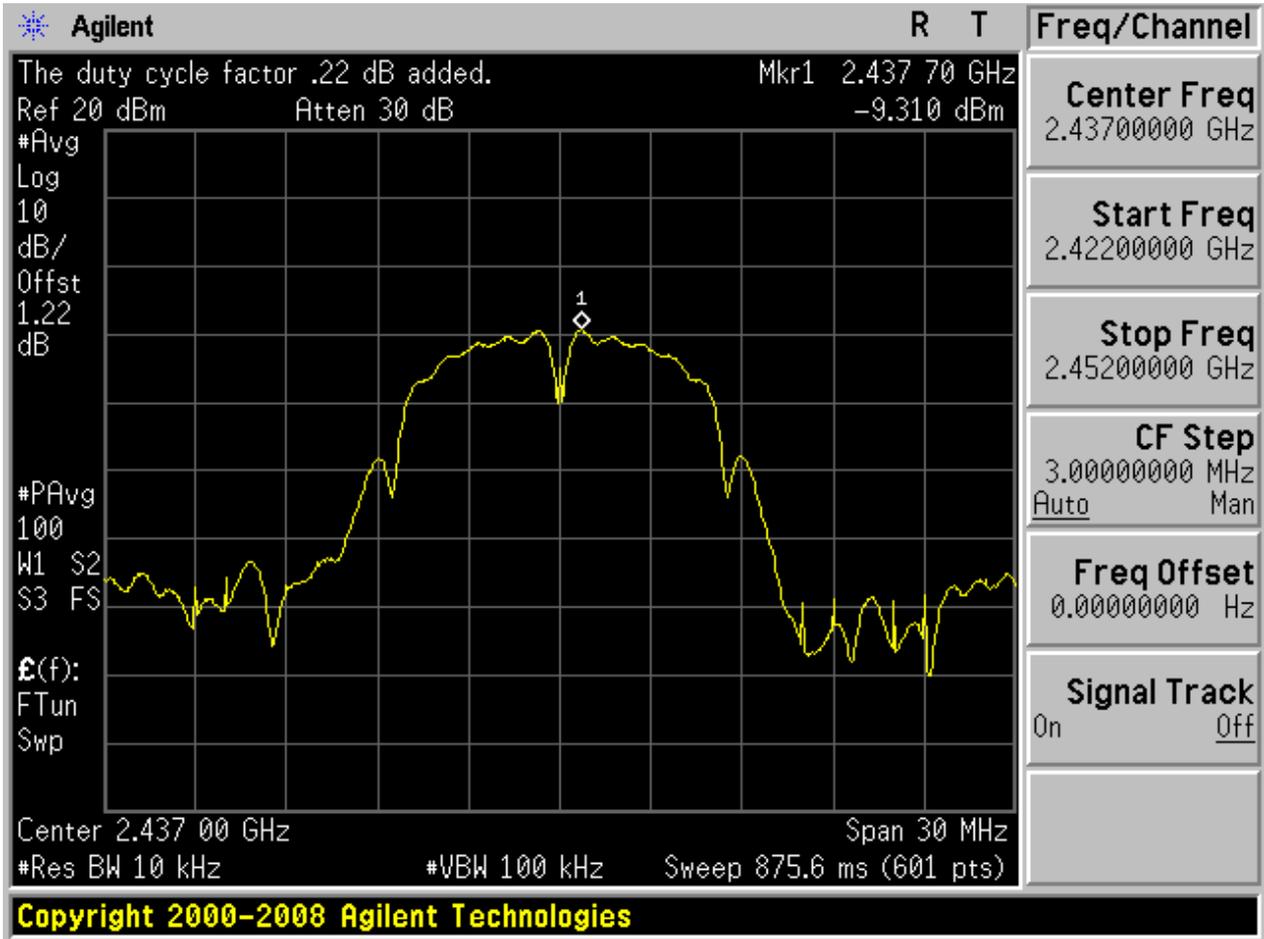


2.3 11B\_M@Ant 1



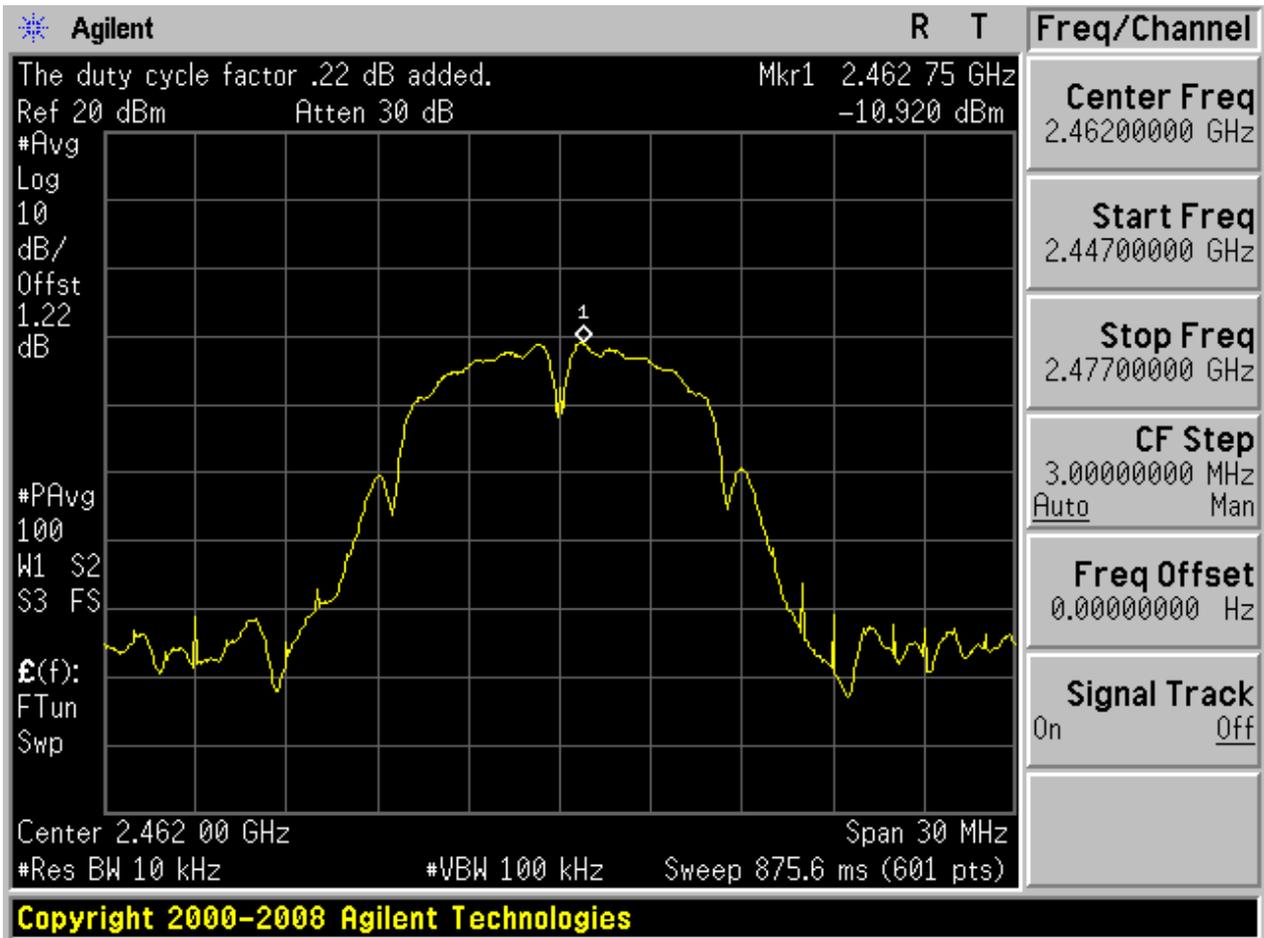


2.4 11B\_M@Ant 2



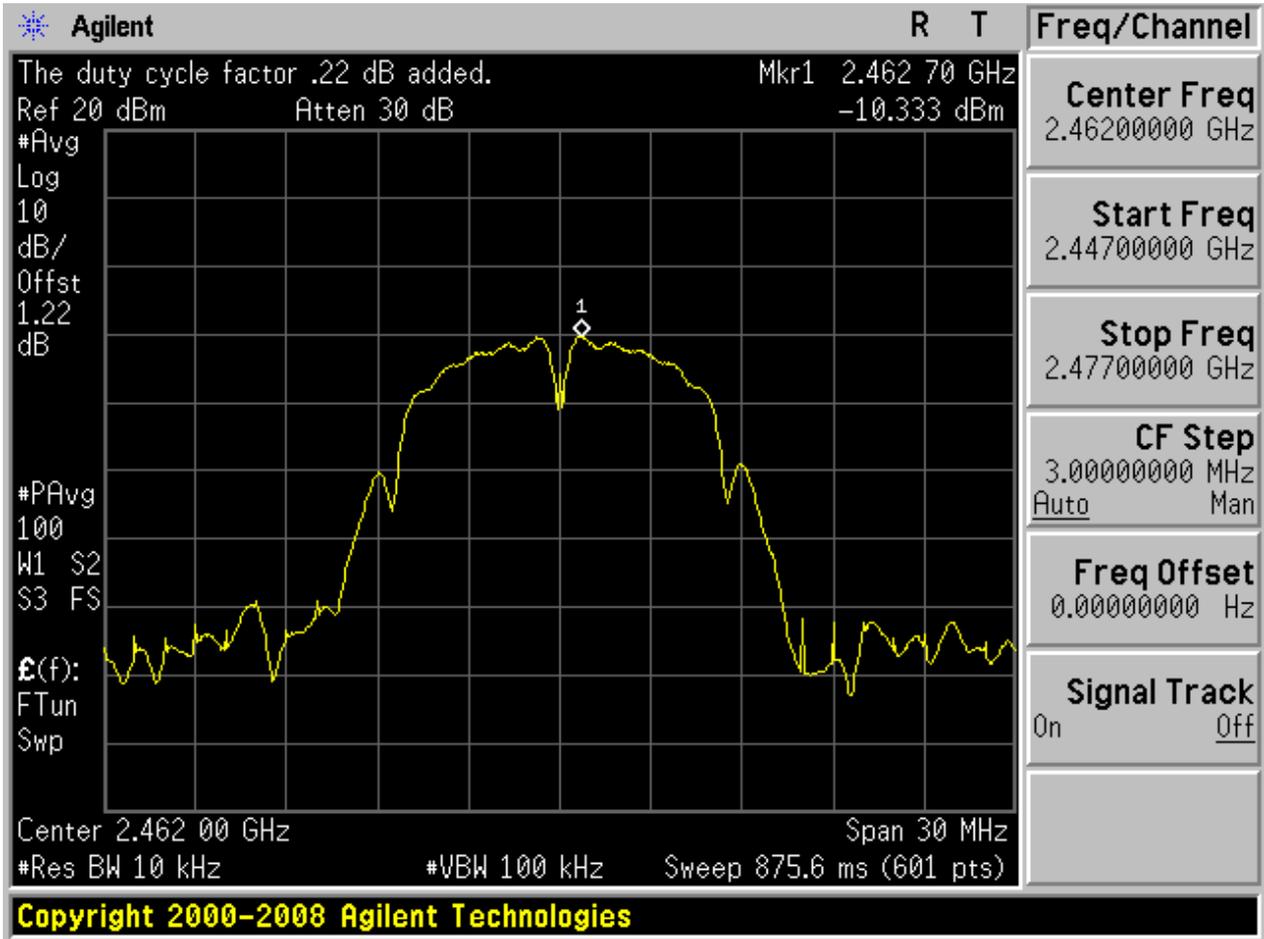


2.5 11B\_H@Ant 1



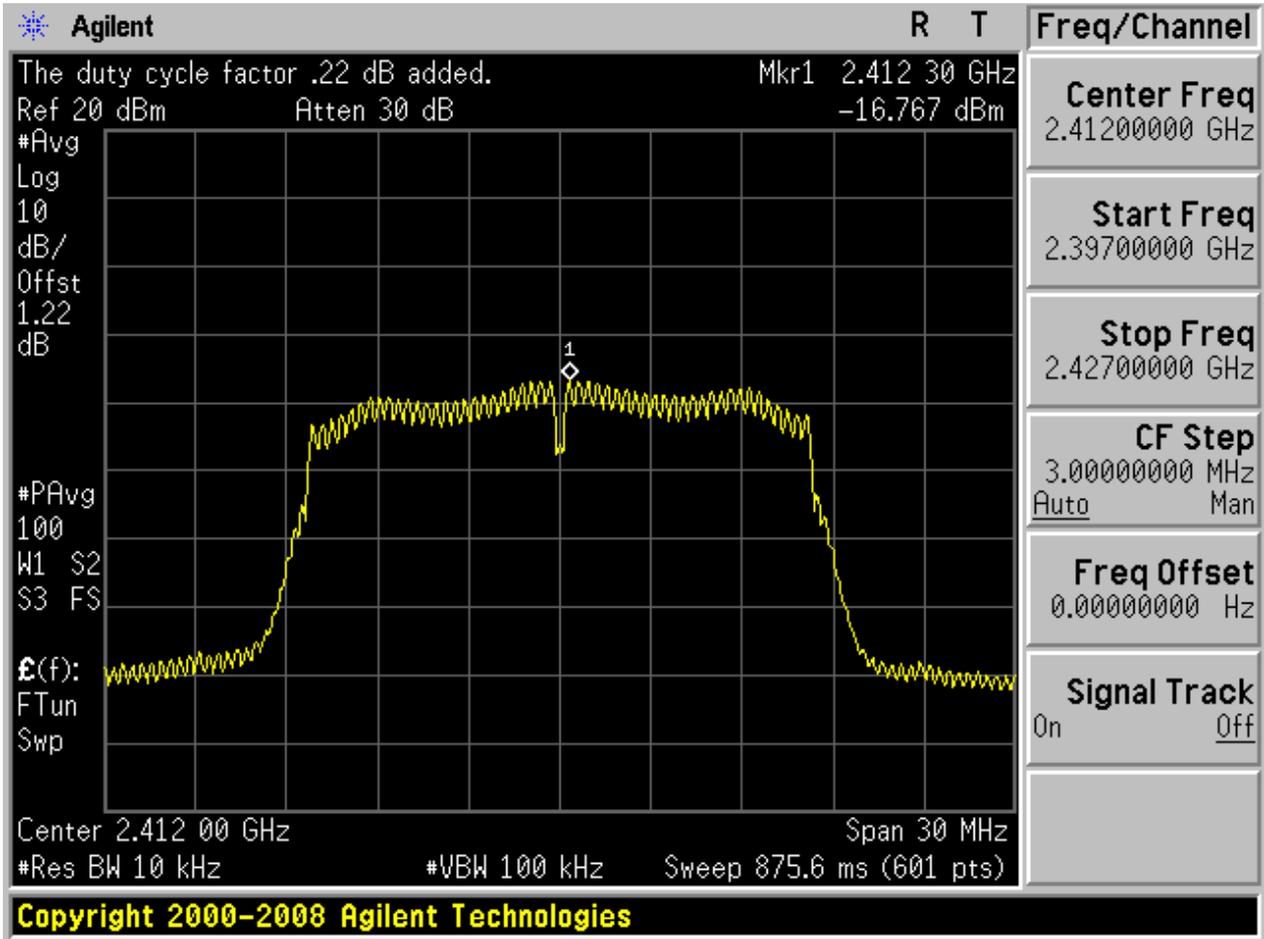


2.6 11B\_H@Ant 2



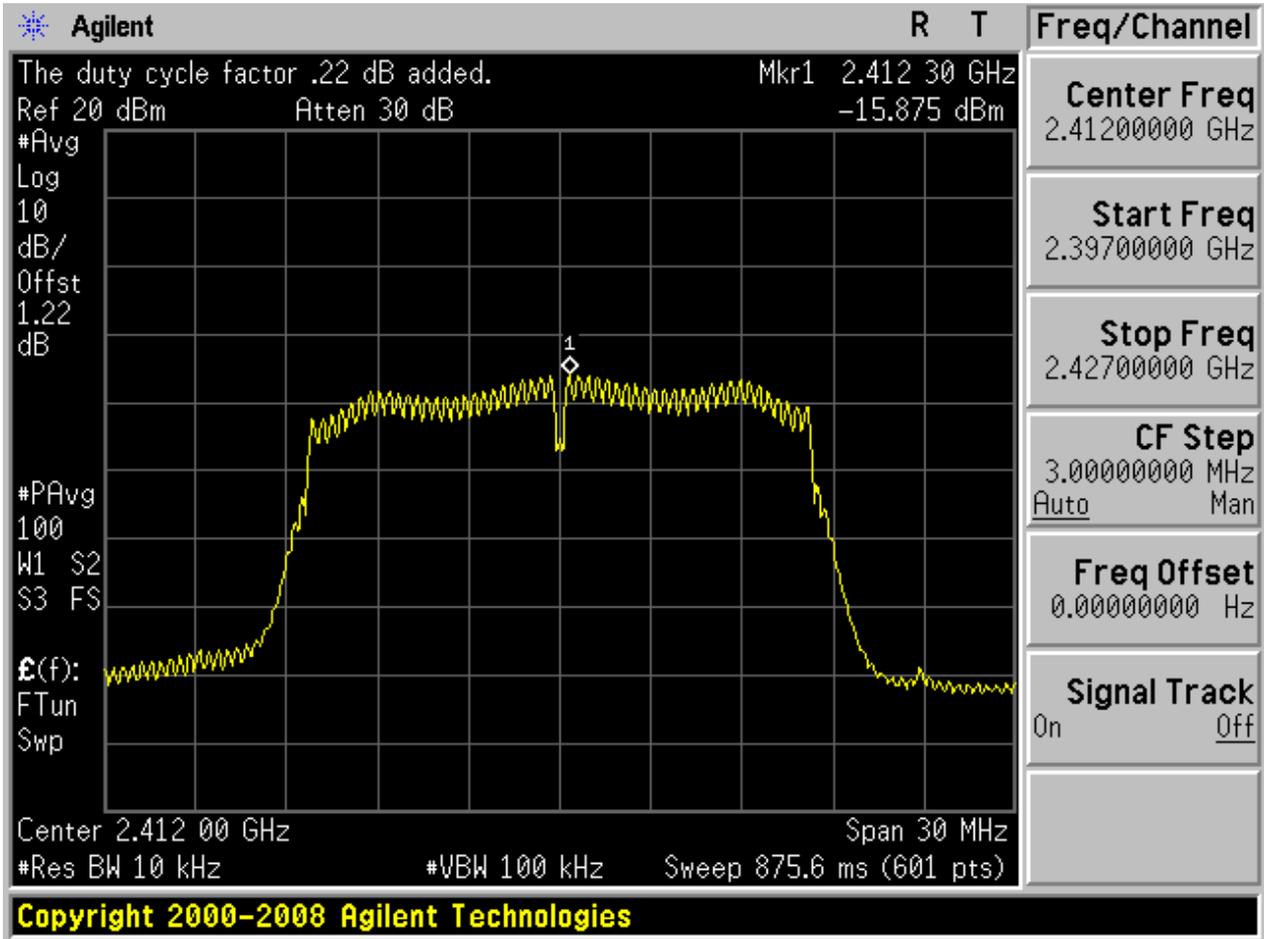


2.7 11G\_L@Ant 1



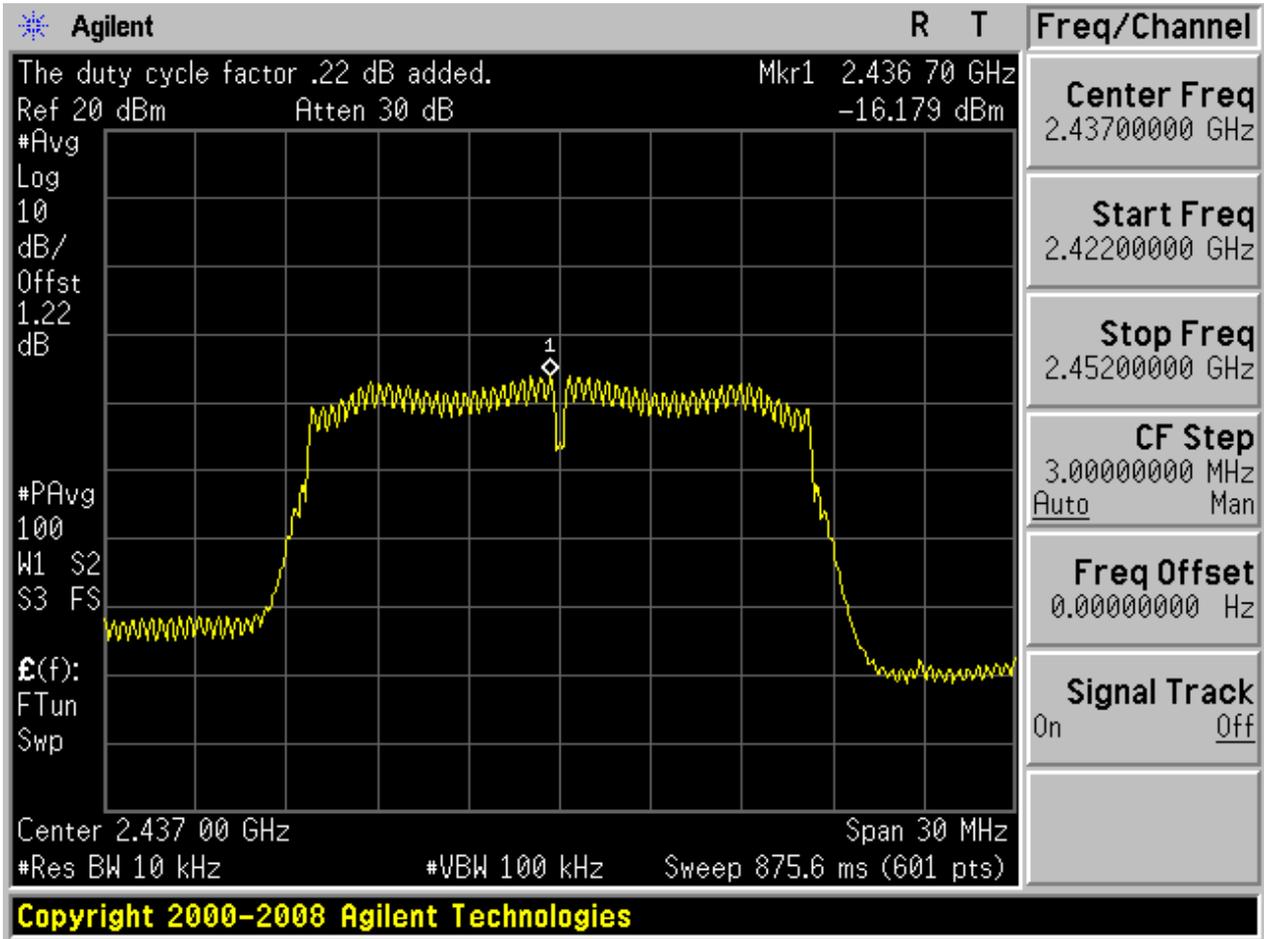


2.8 11G\_L@Ant 2



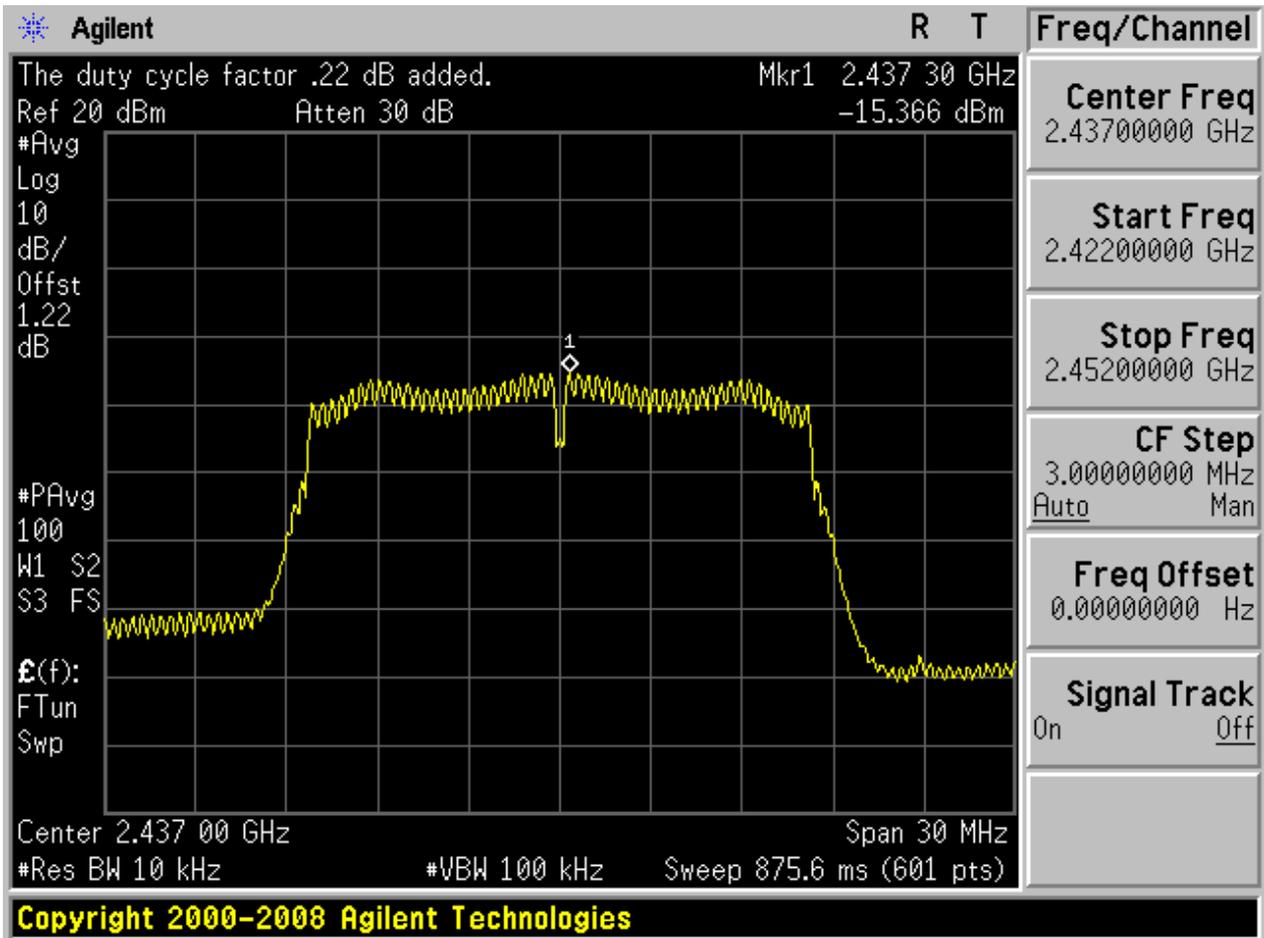


2.9 11G\_M@Ant 1



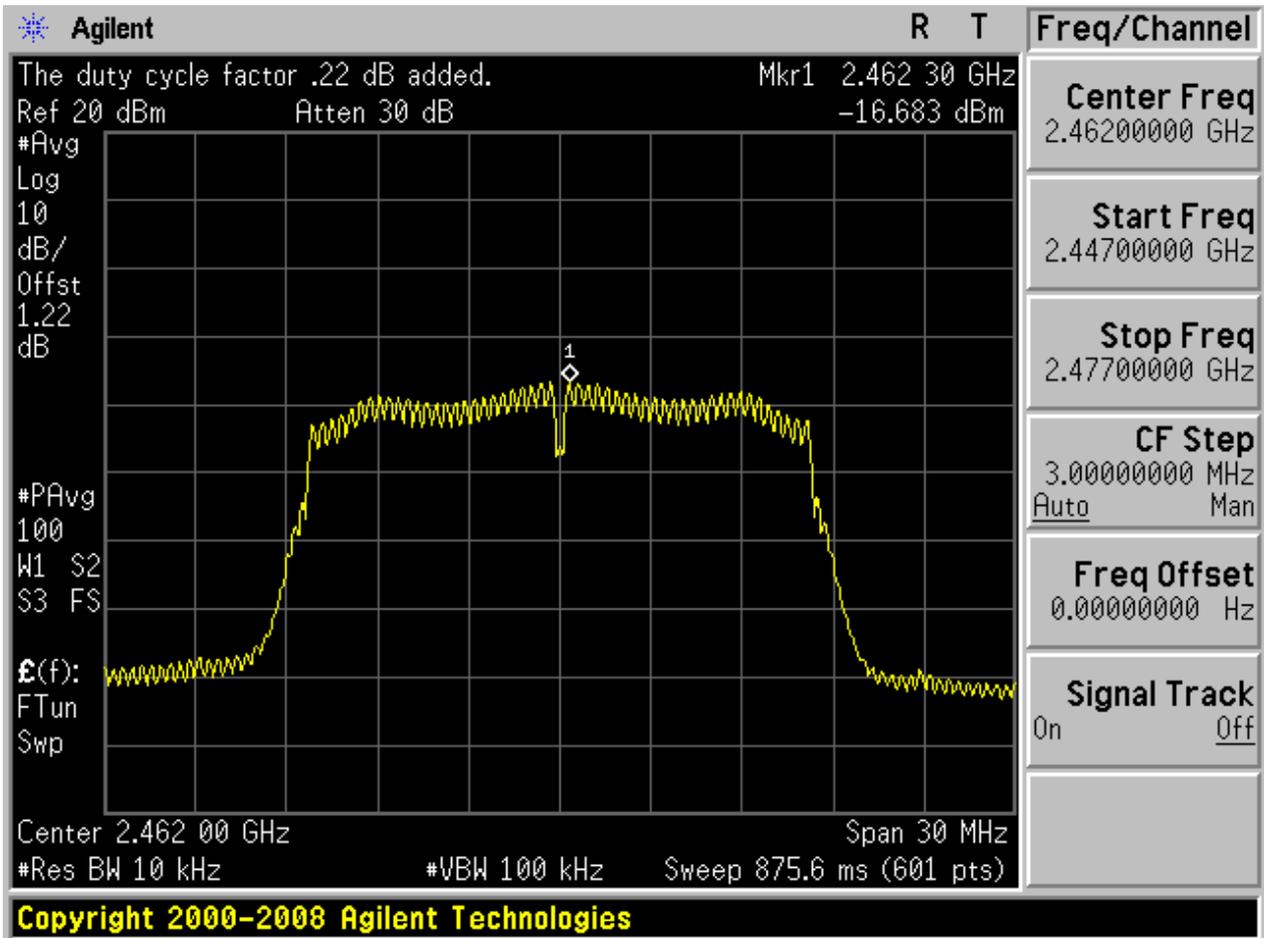


2.10 11G\_M@Ant 2



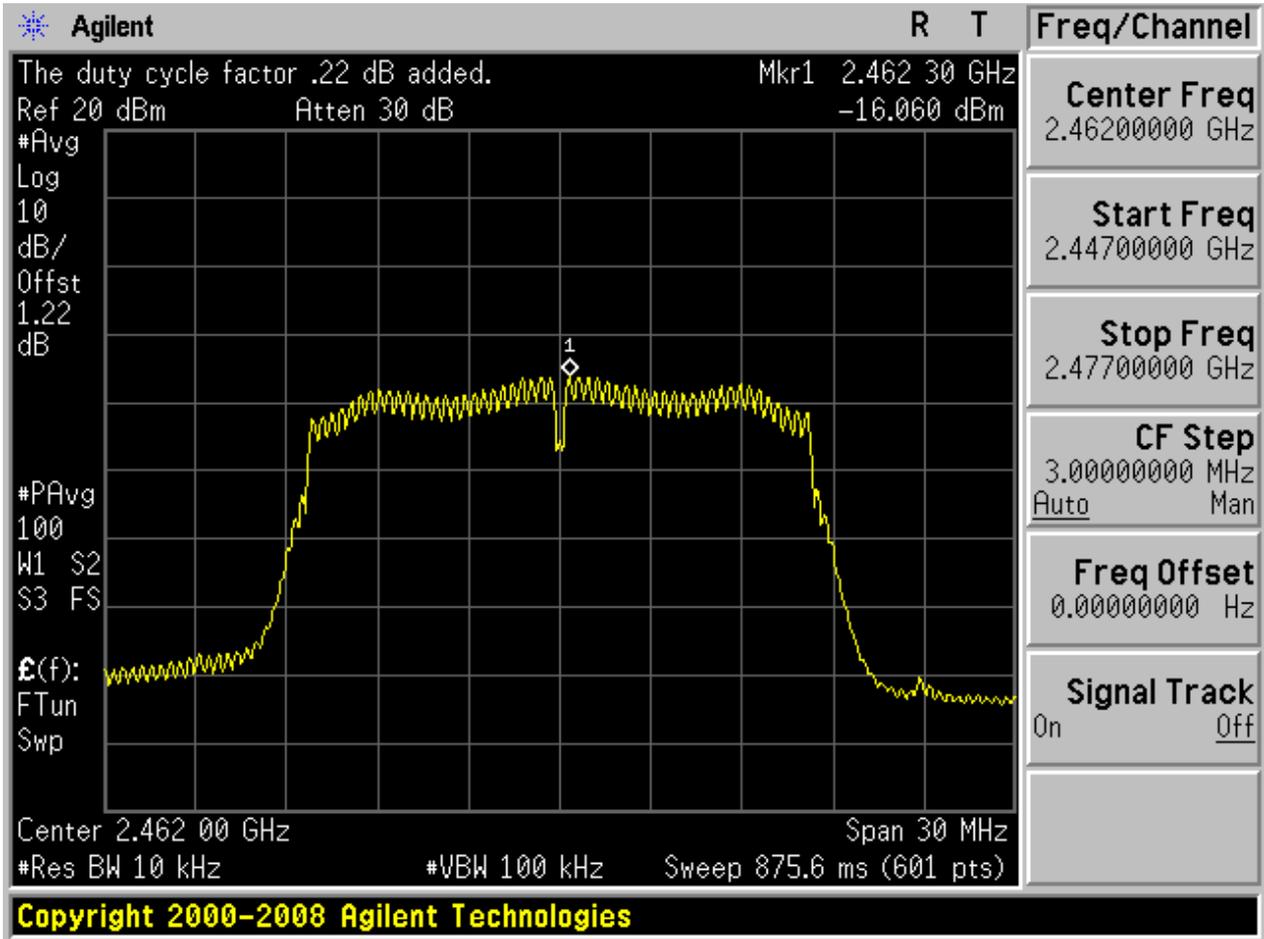


2.11 11G\_H@Ant 1



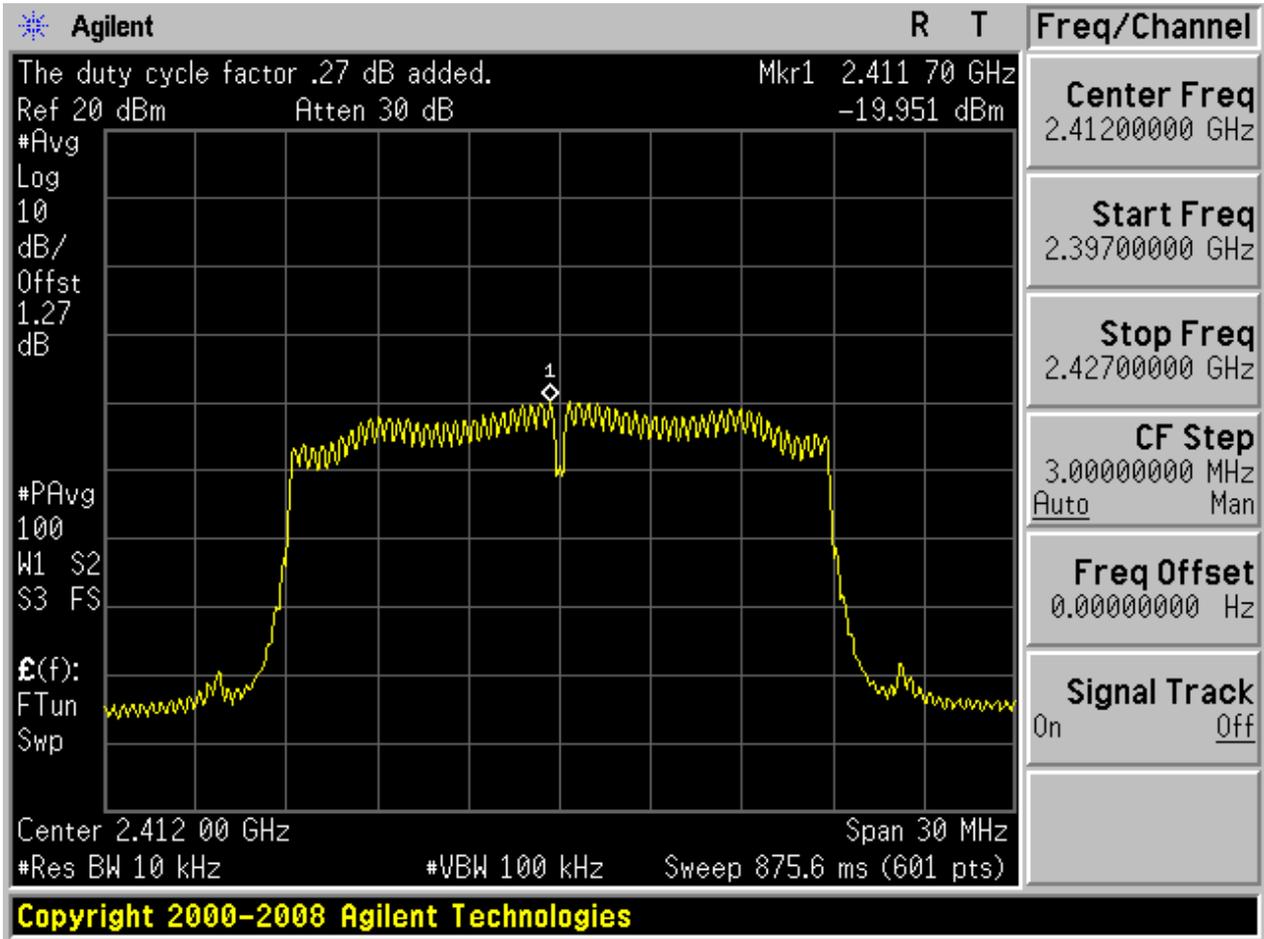


2.12 11G\_H@Ant 2



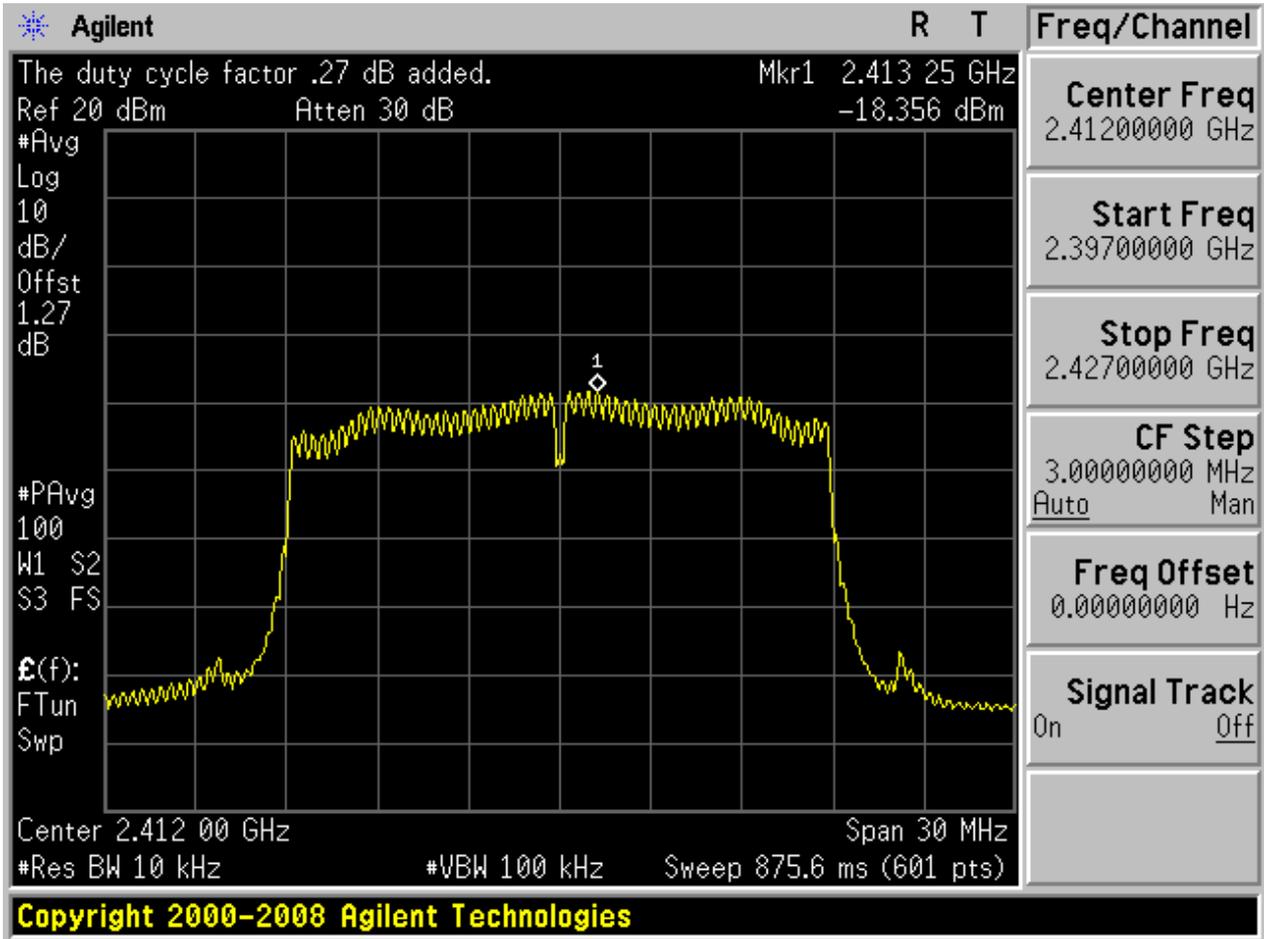


2.13 11N20\_L@Ant 1



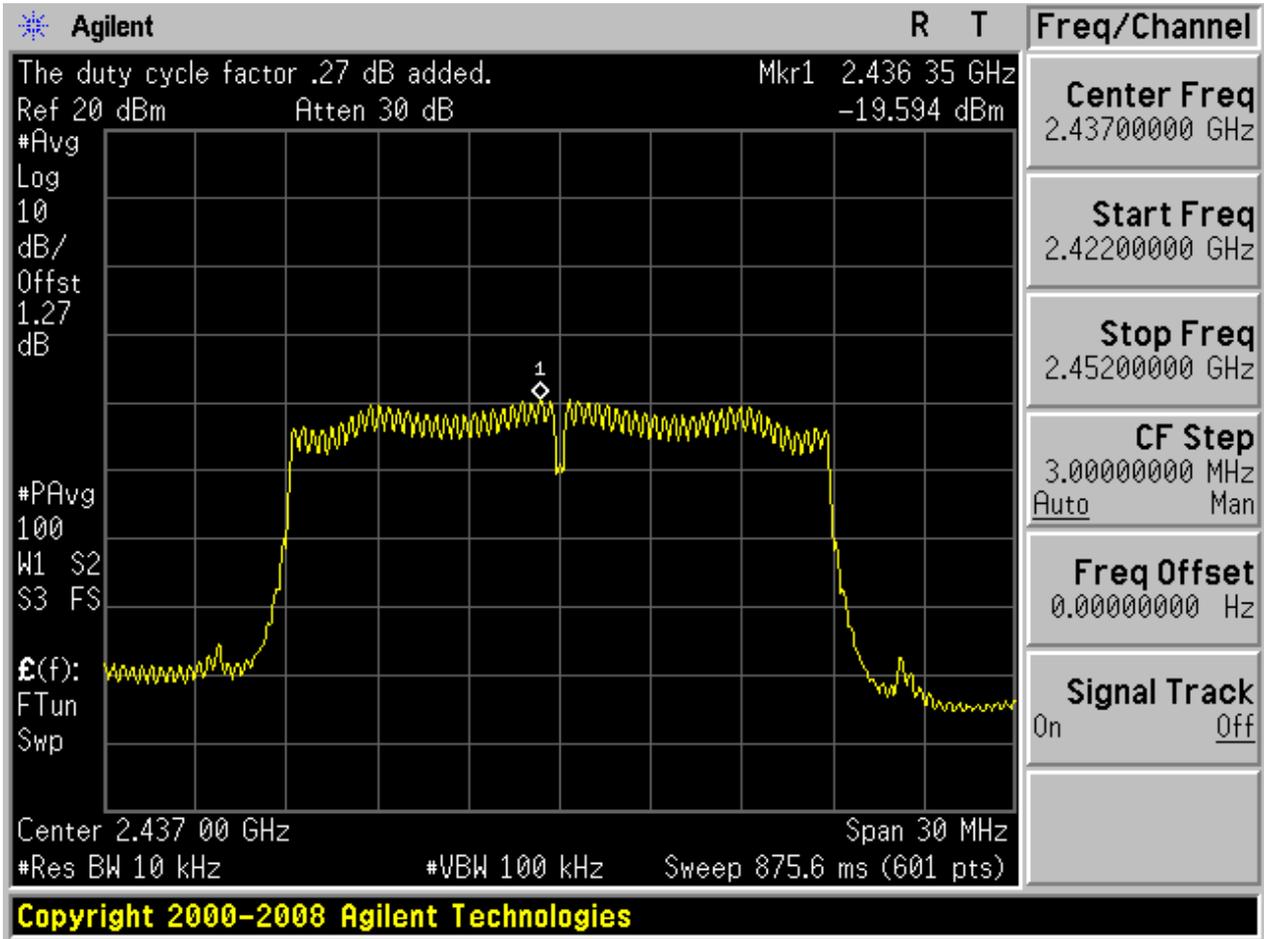


2.14 11N20\_L@Ant 2



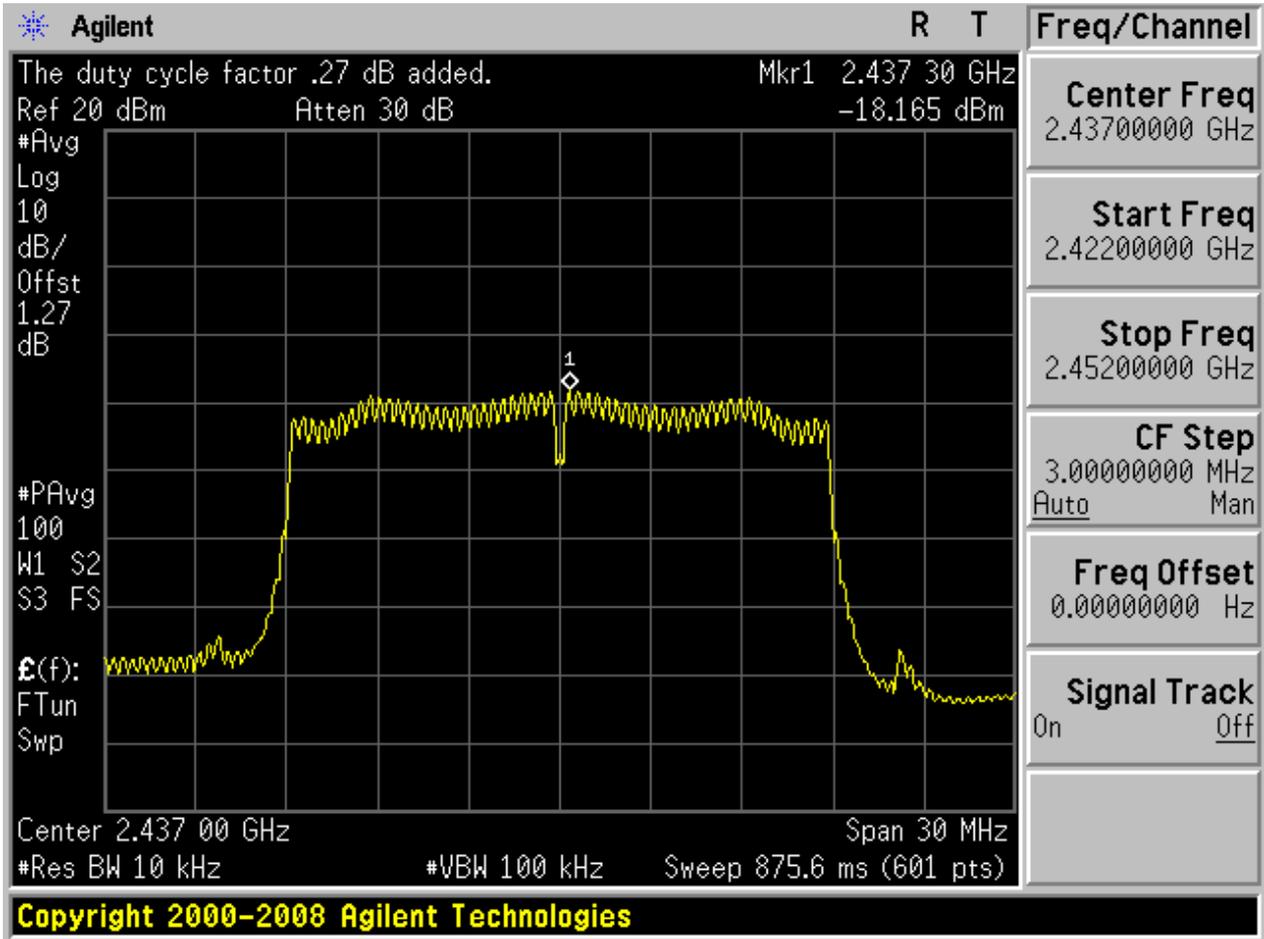


2.15 11N20\_M@Ant 1



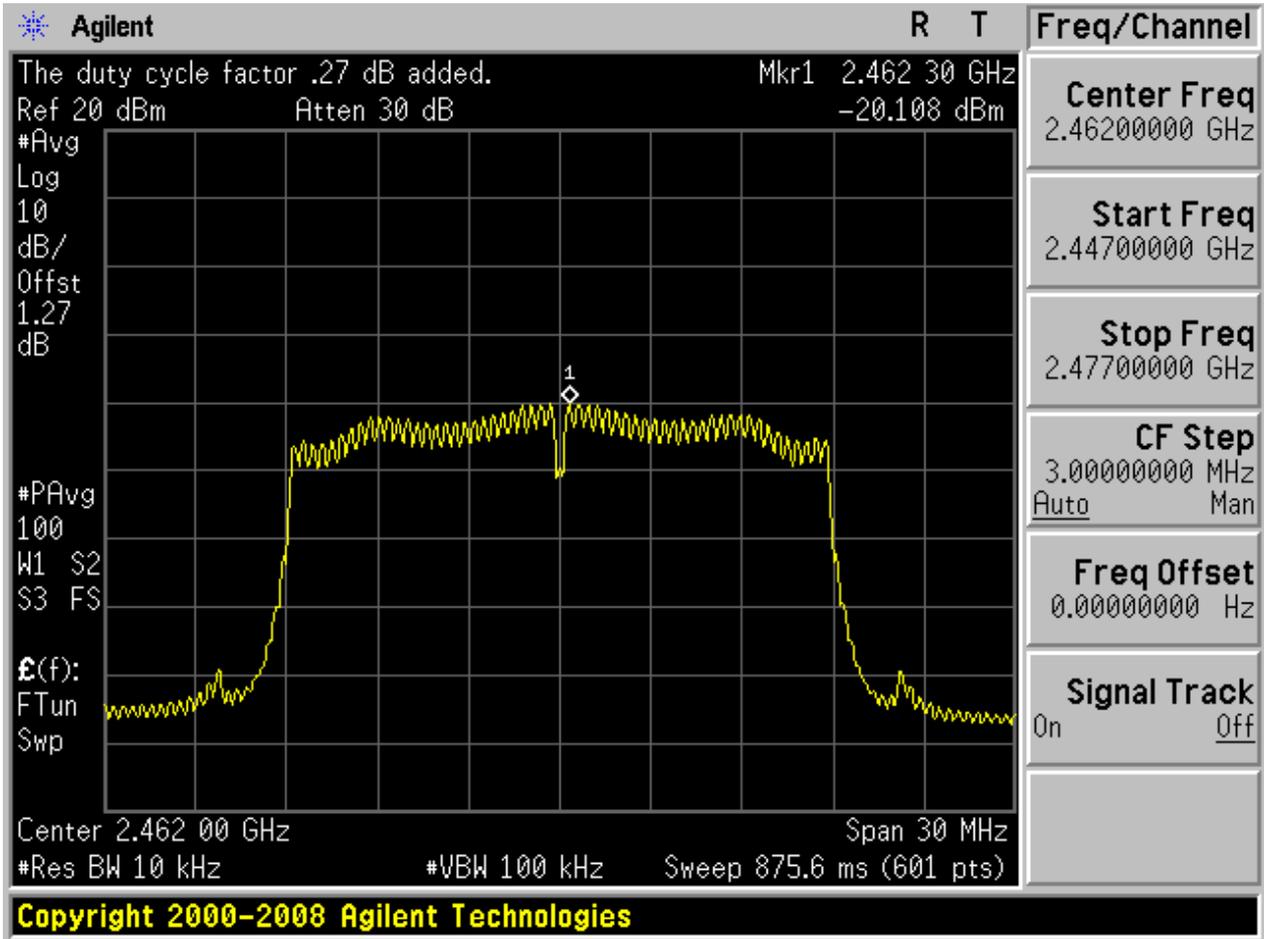


2.16 11N20\_M@Ant 2



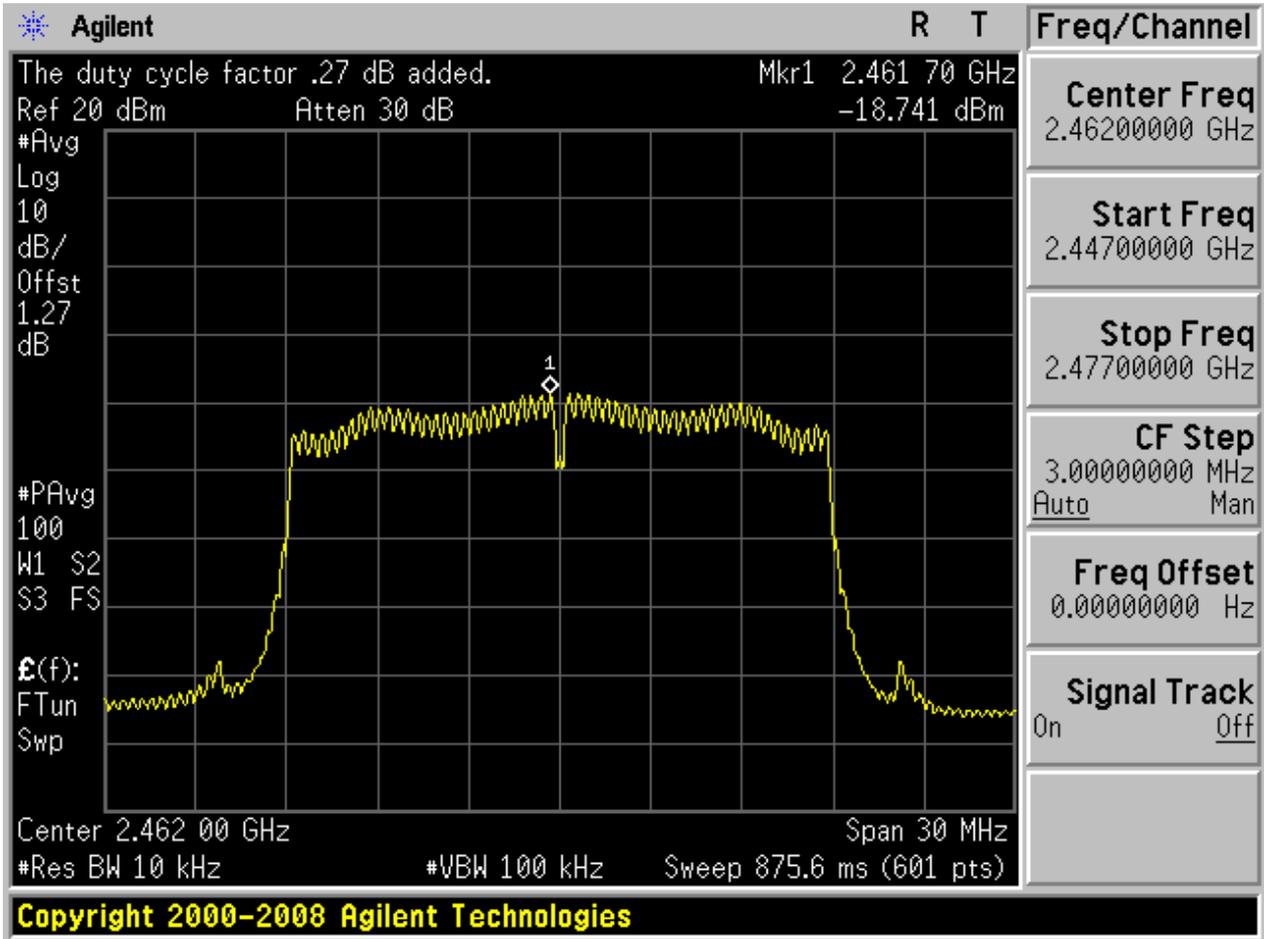


2.17 11N20\_H@Ant 1



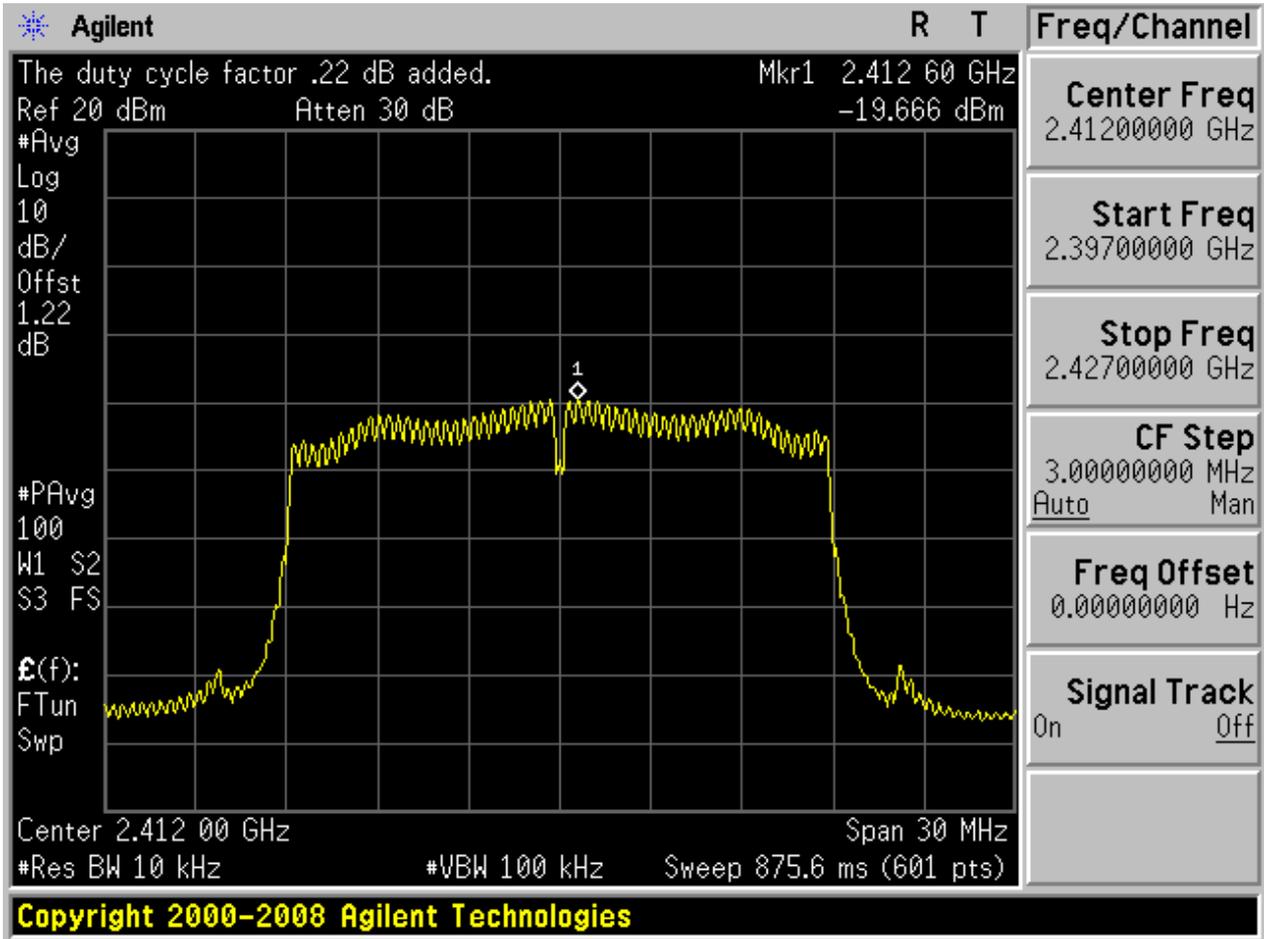


2.18 11N20\_H@Ant 2



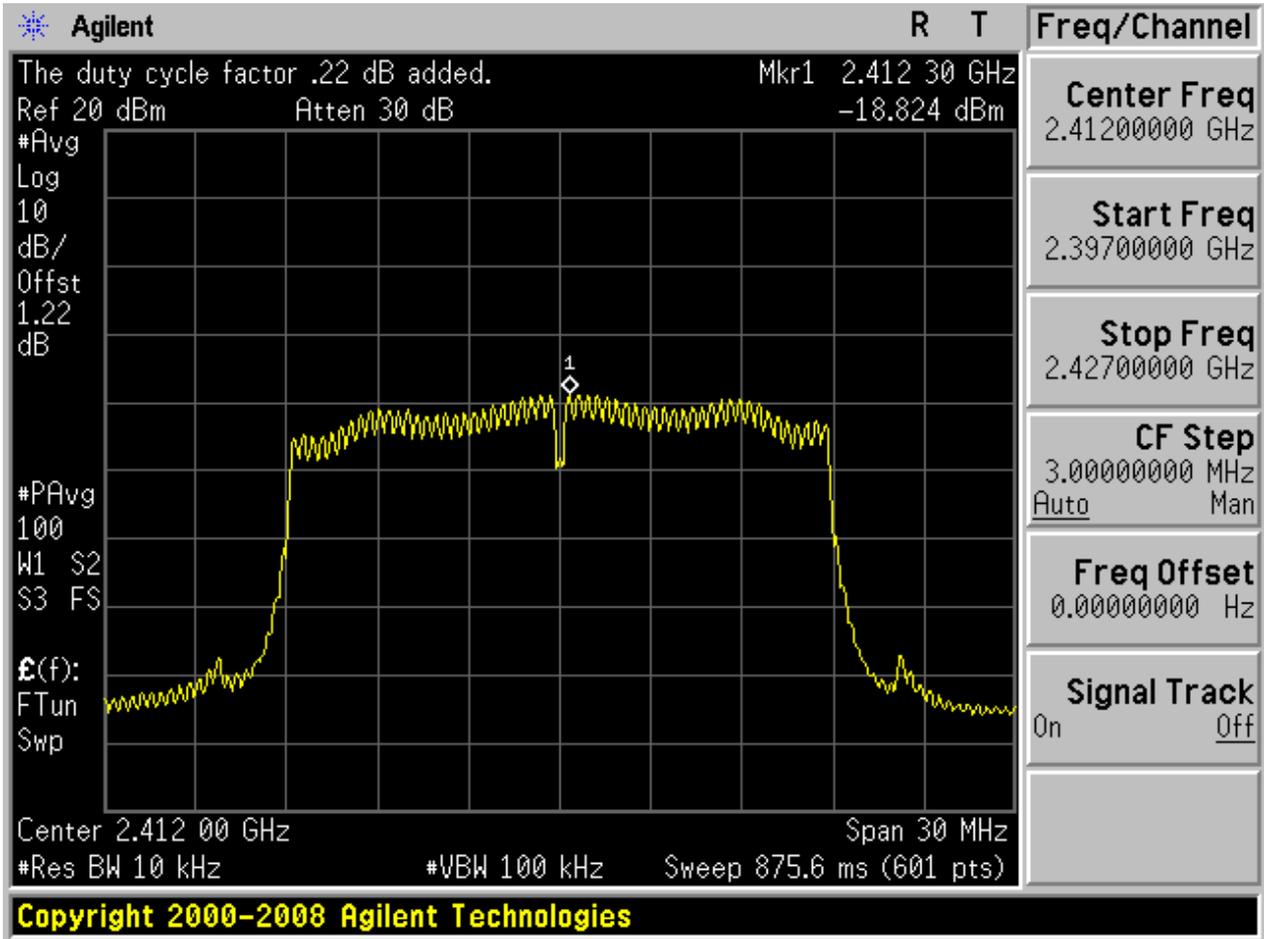


2.13 11N20m\_L@Ant 1



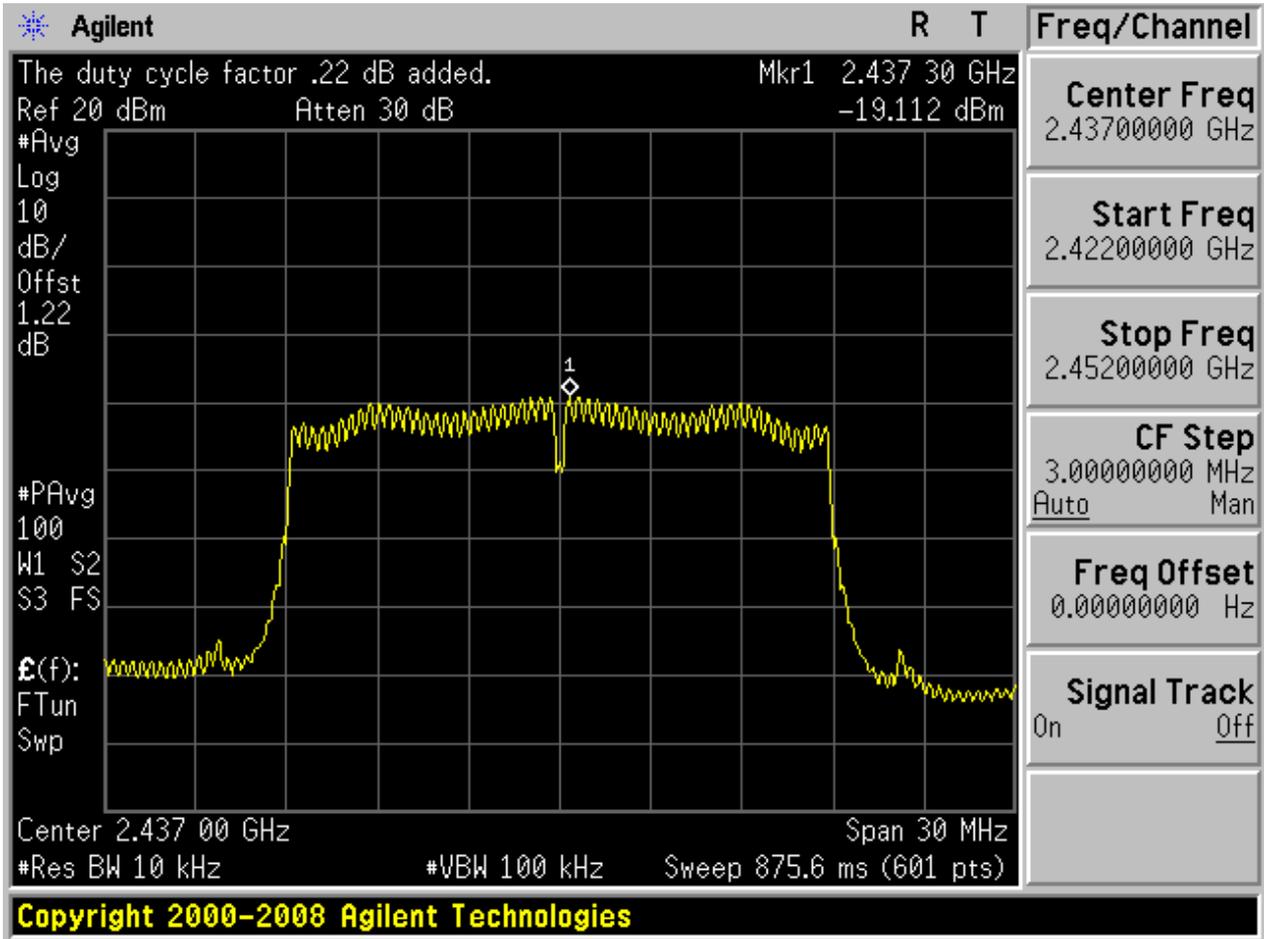


2.14 11N20m\_L@Ant 2



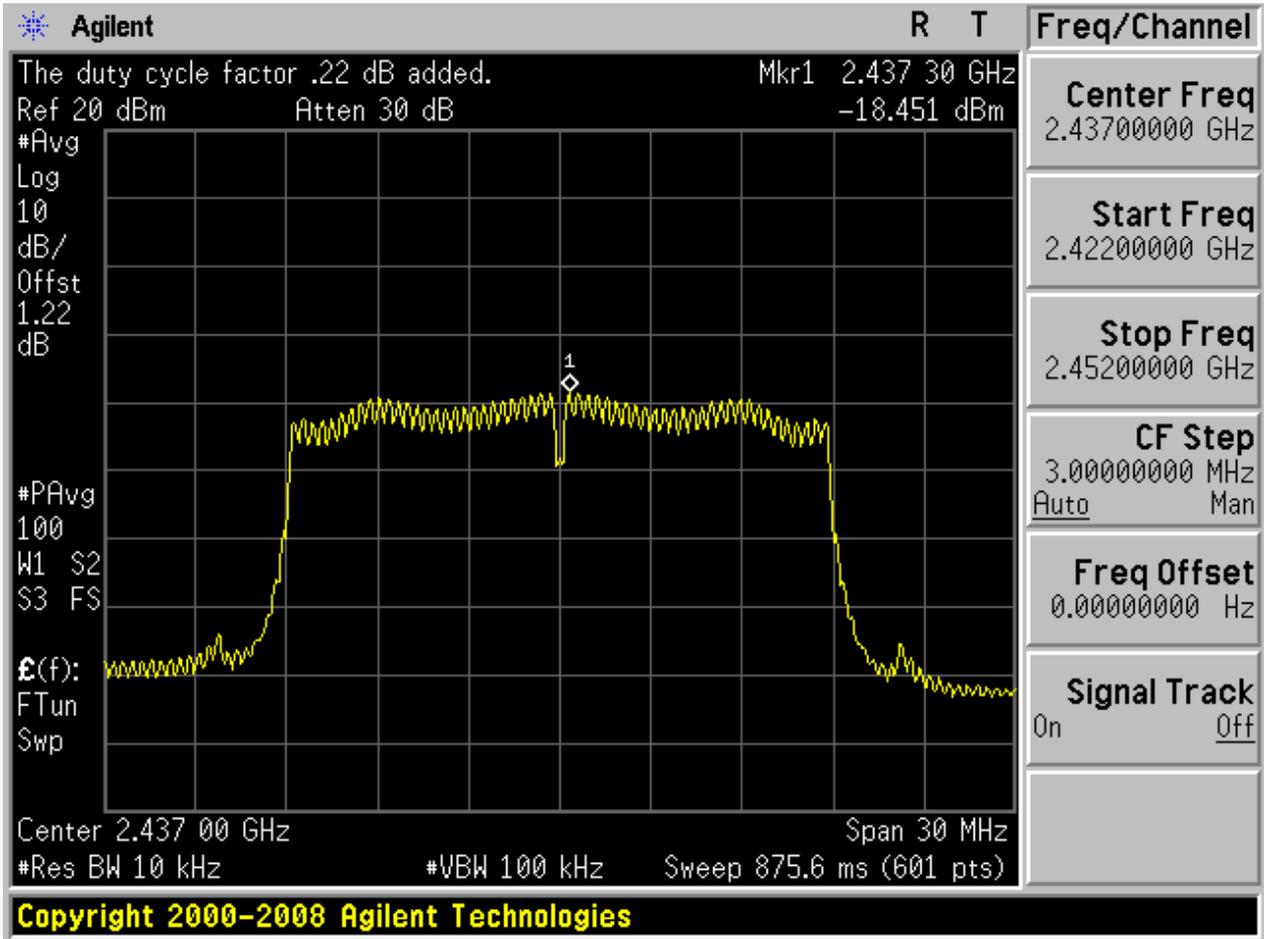


2.15 11N20m\_M@Ant 1



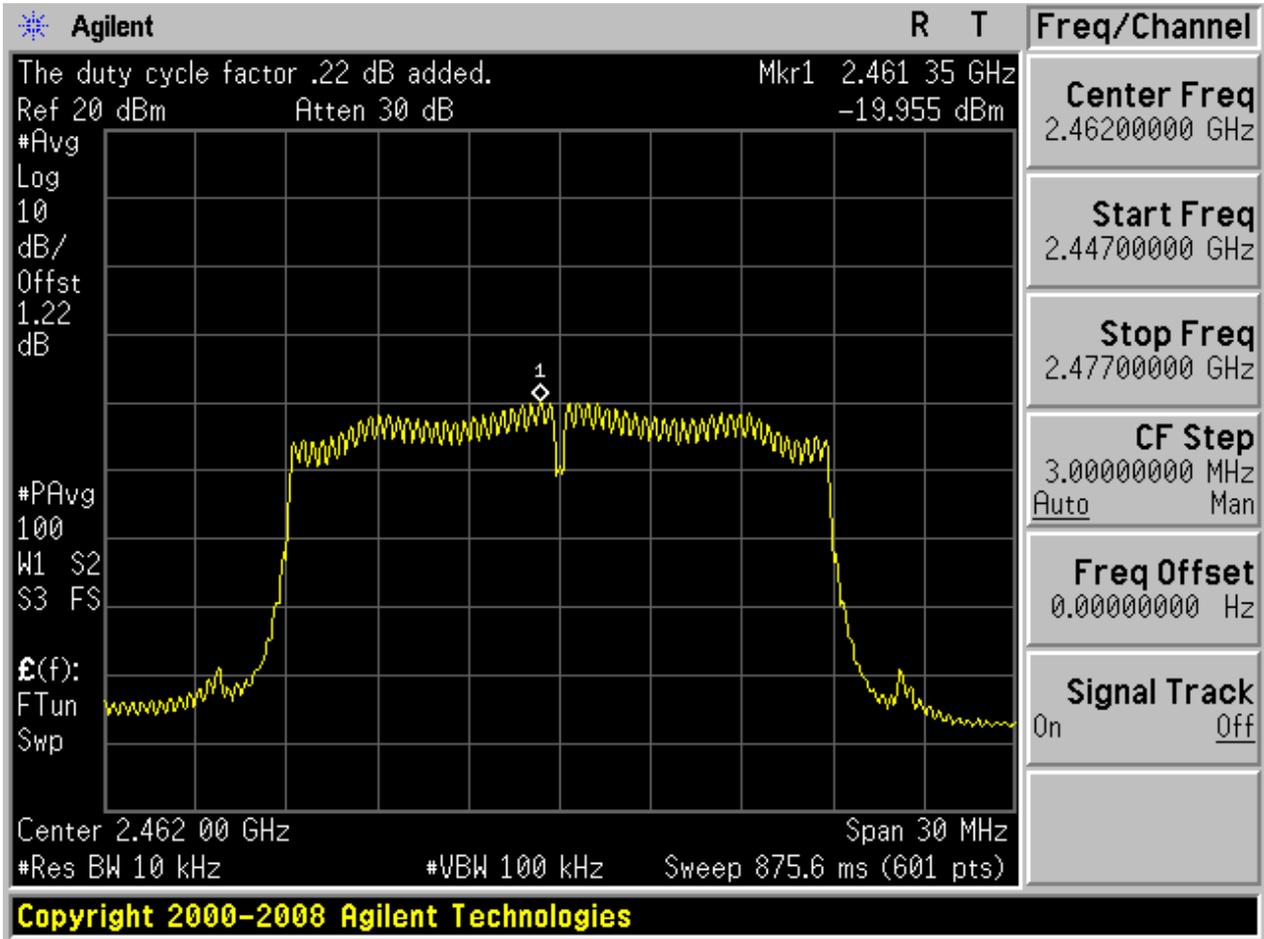


2.16 11N20m\_M@Ant 2



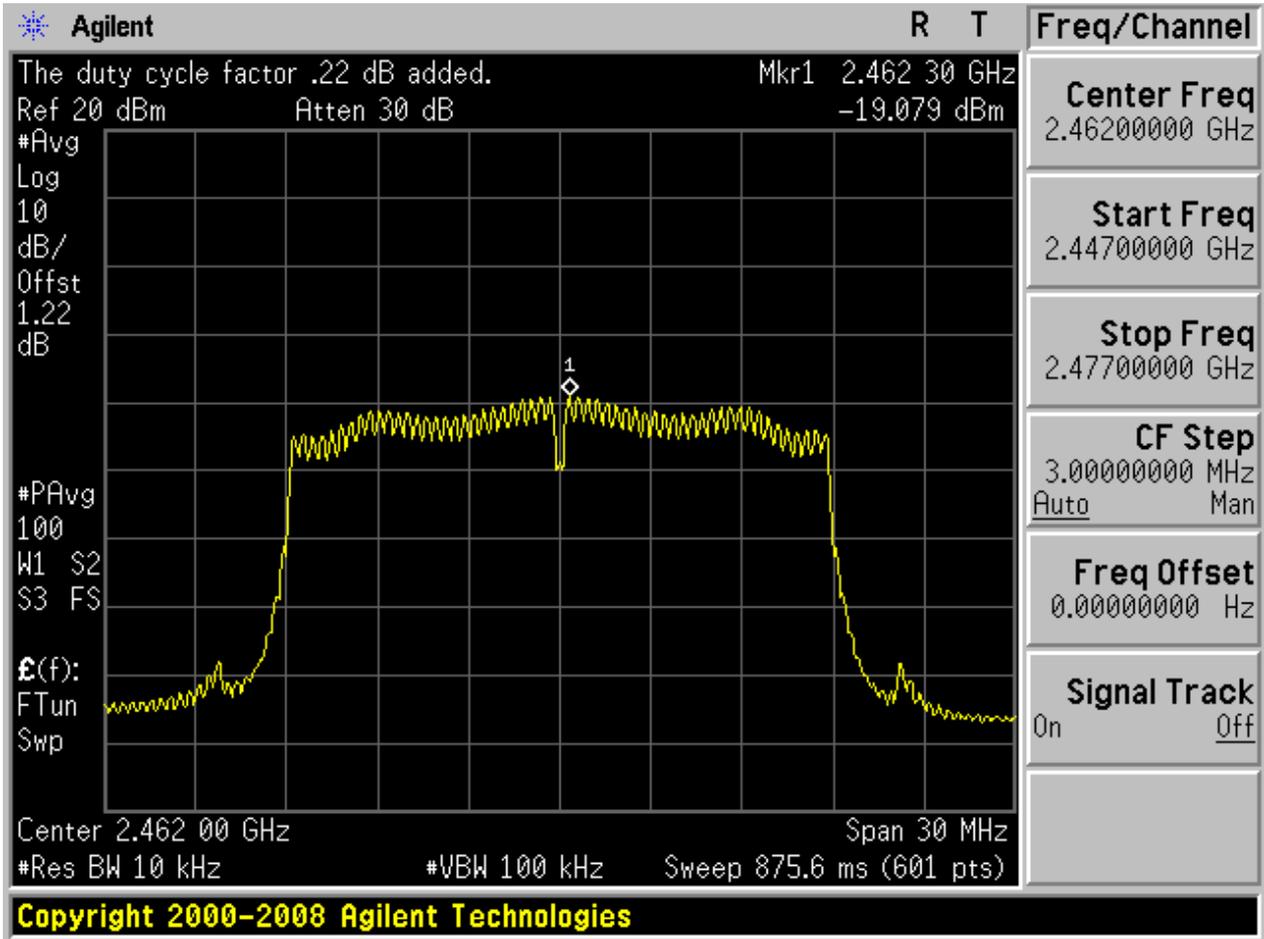


2.17 11N20m\_H@Ant 1



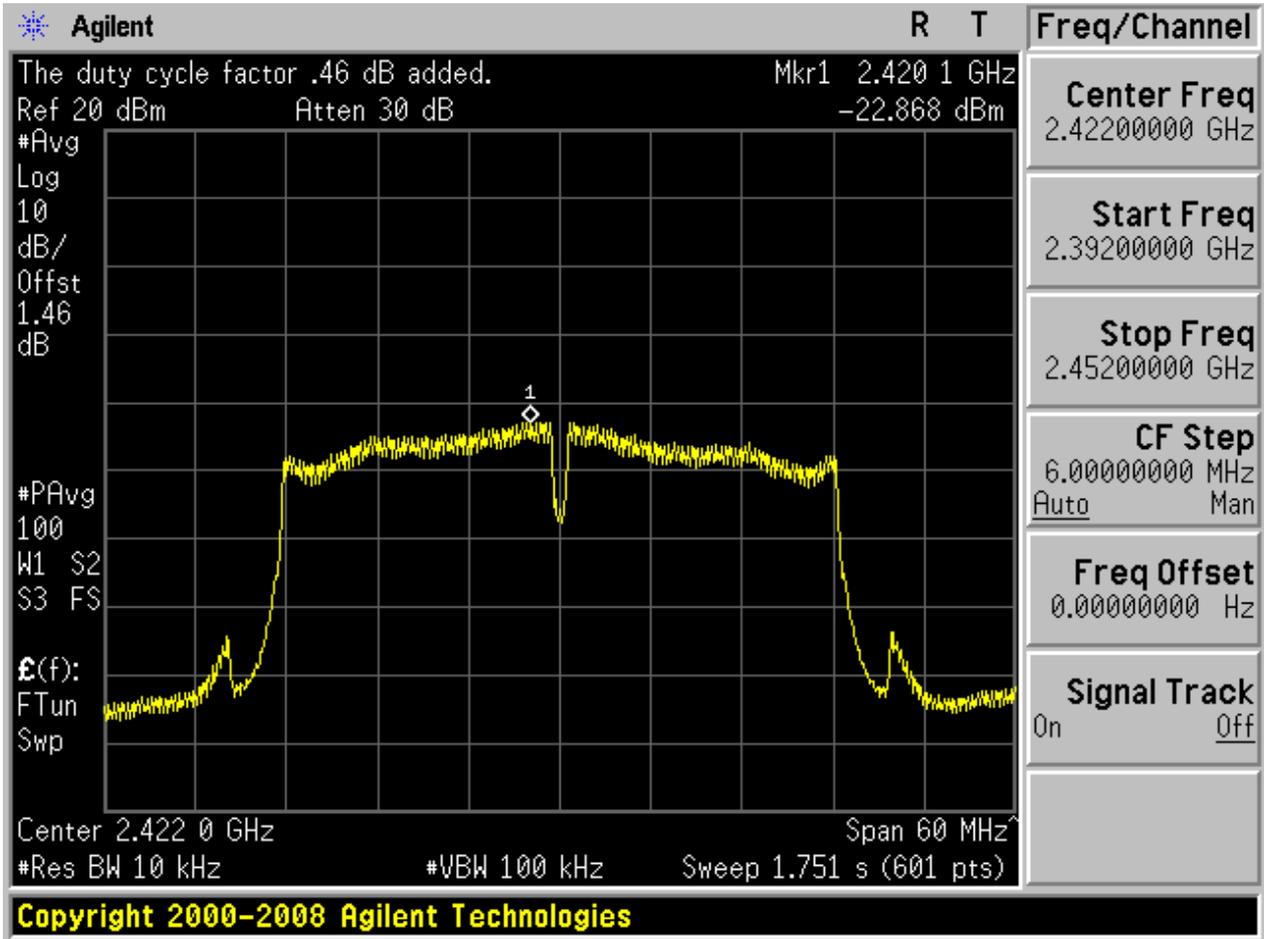


2.18 11N20m\_H@Ant 2



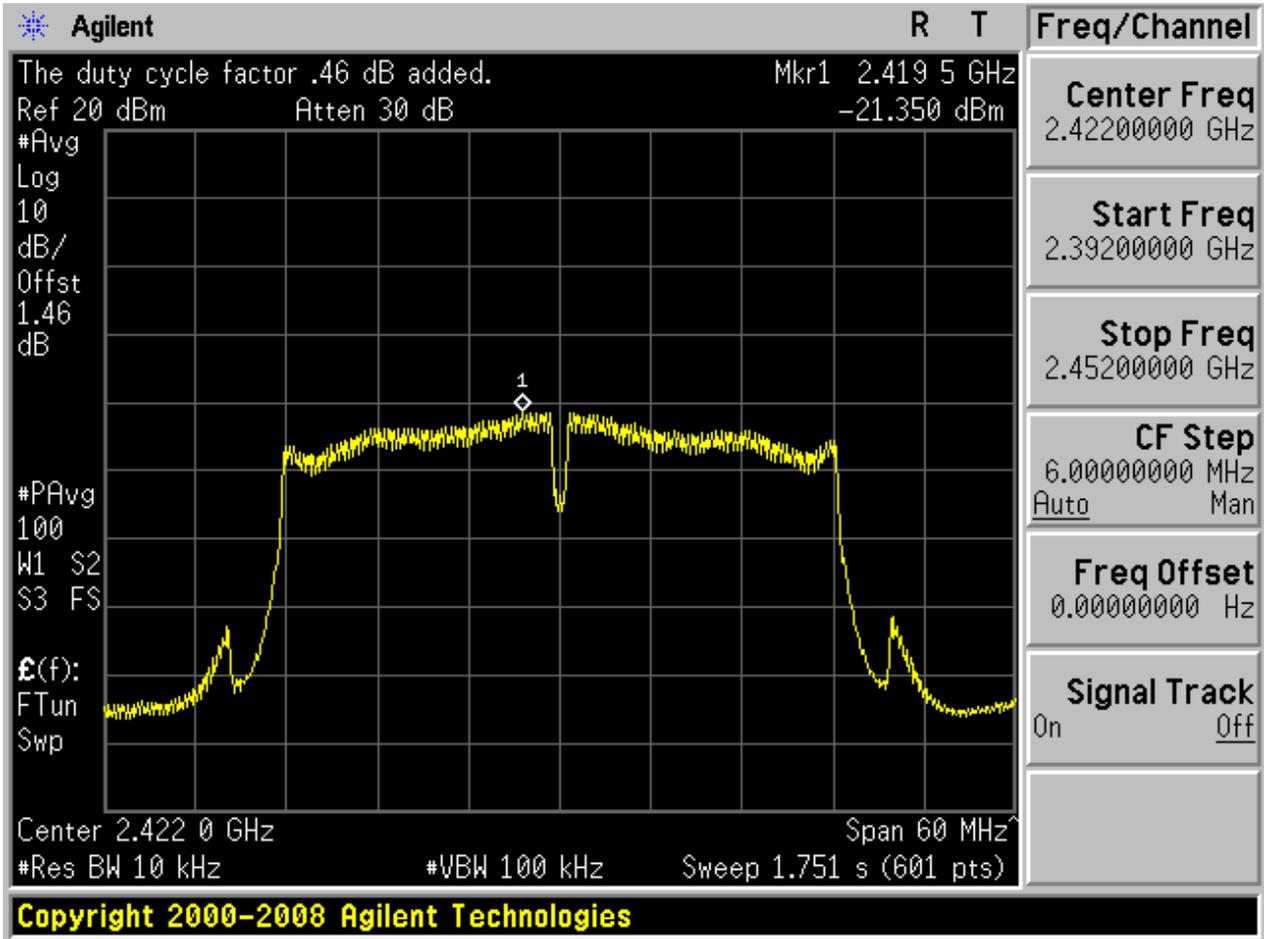


2.19 11N40\_L@Ant 1



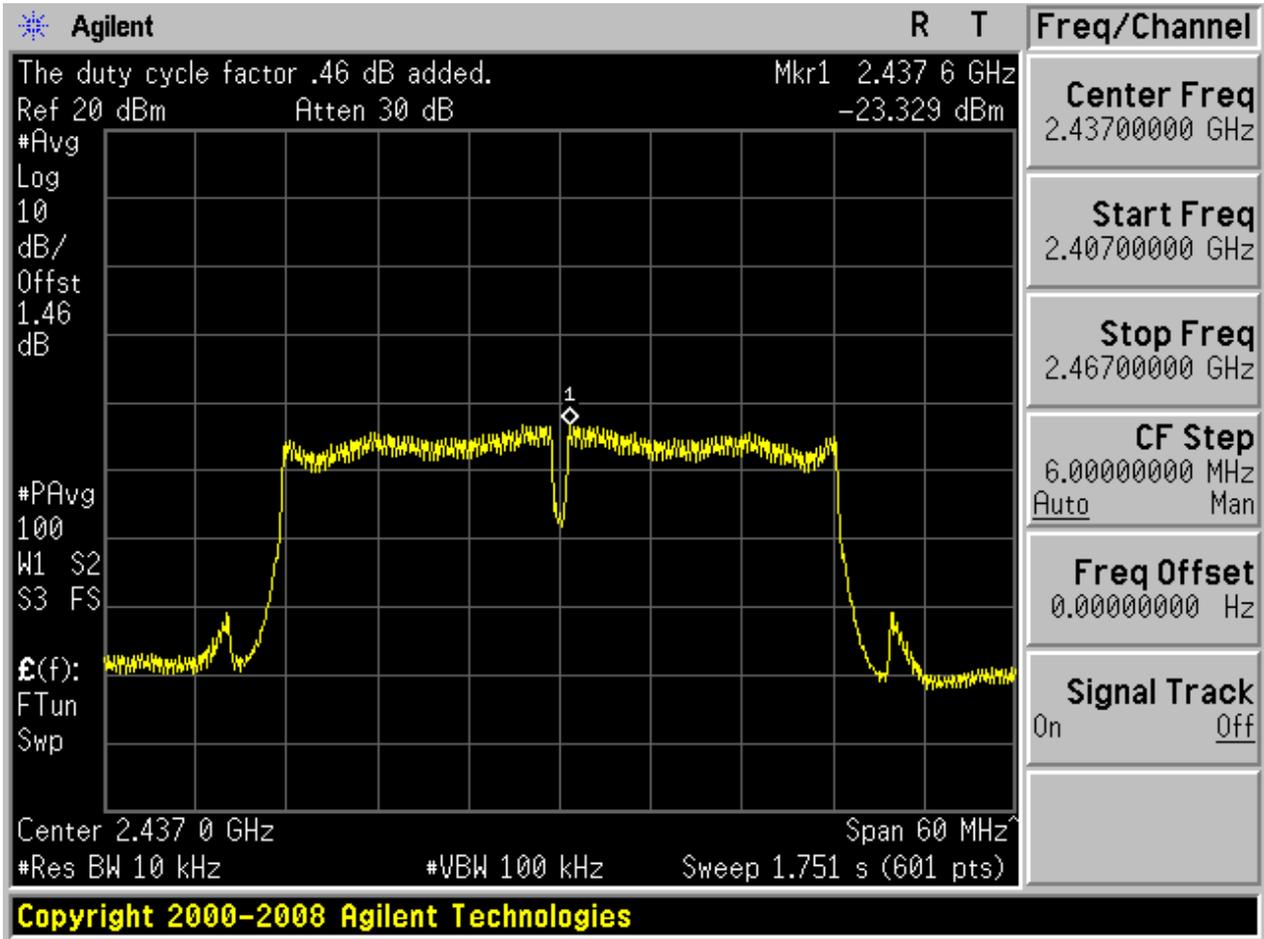


2.20 11N40\_L@Ant 2



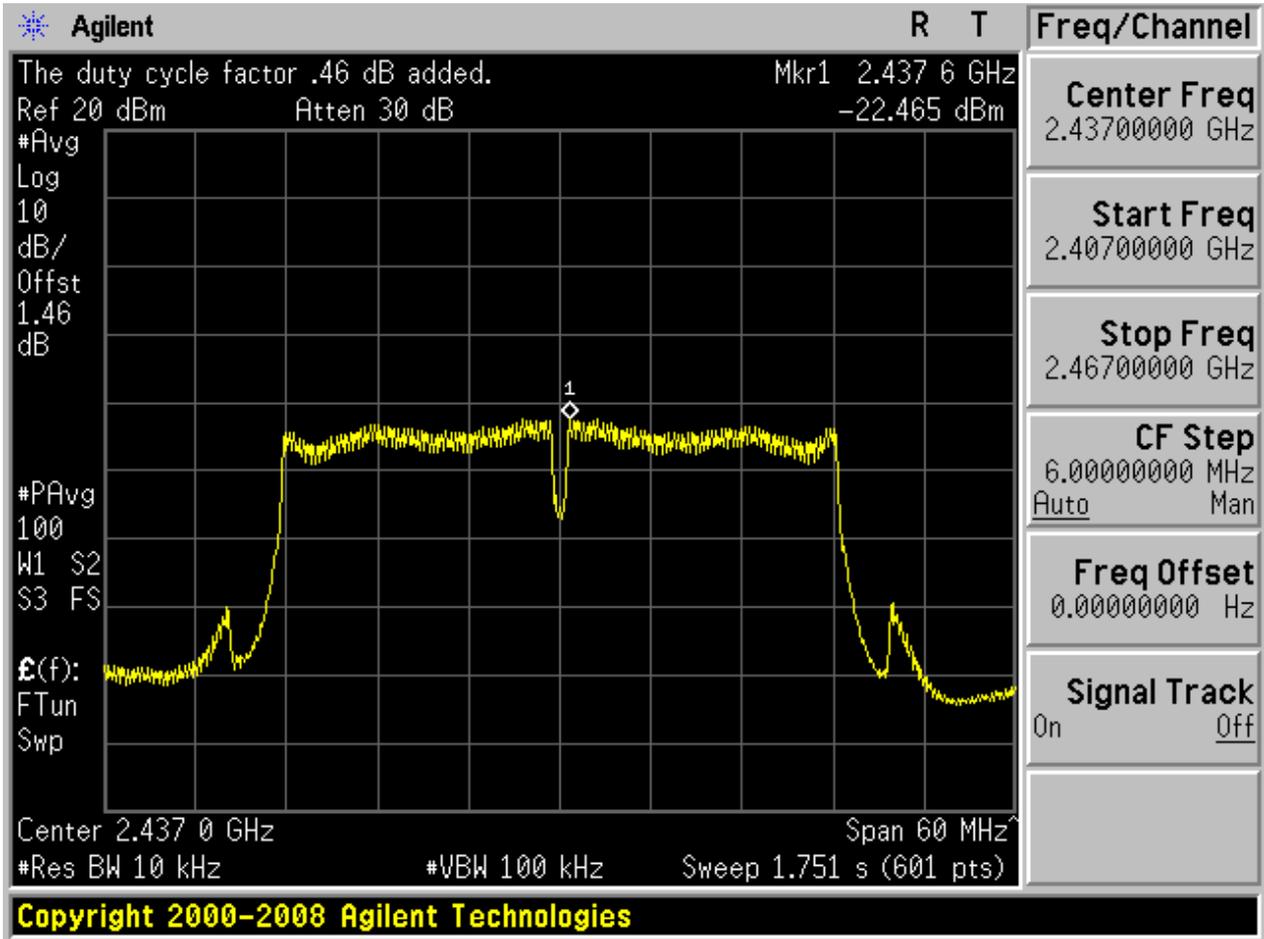


2.21 11N40\_M@Ant 1



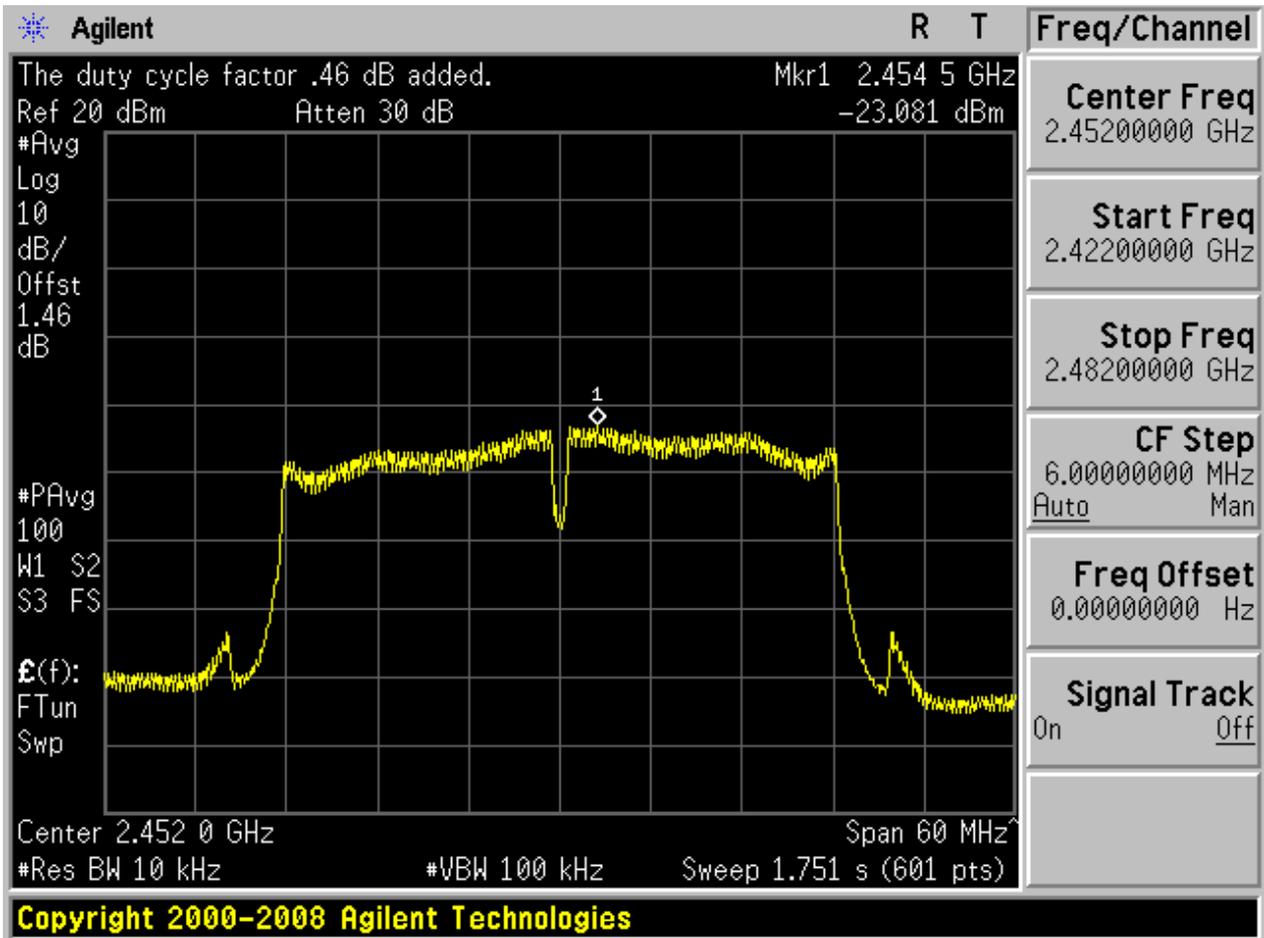


2.22 11N40\_M@Ant 2



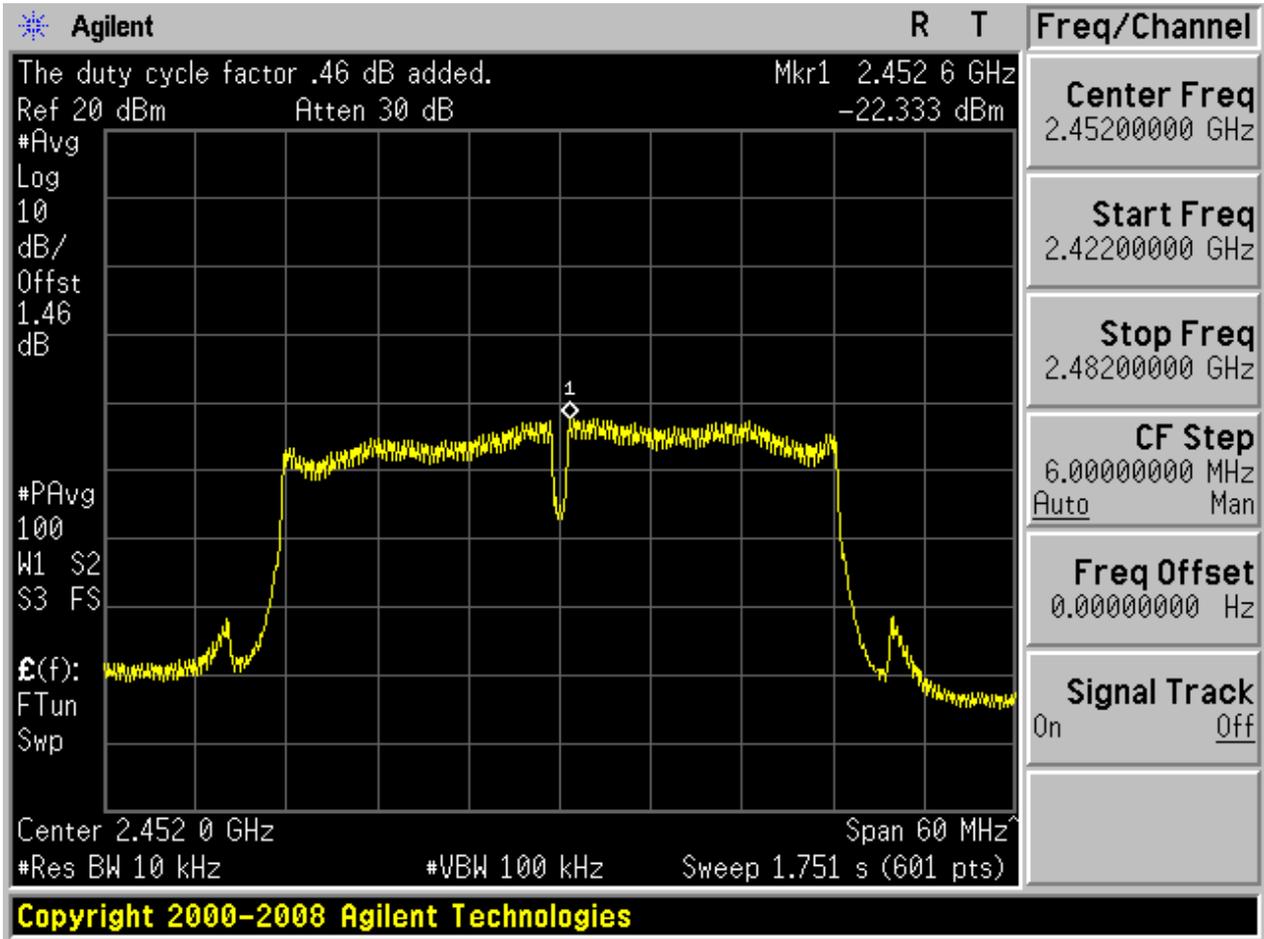


2.23 11N40\_H@Ant 1



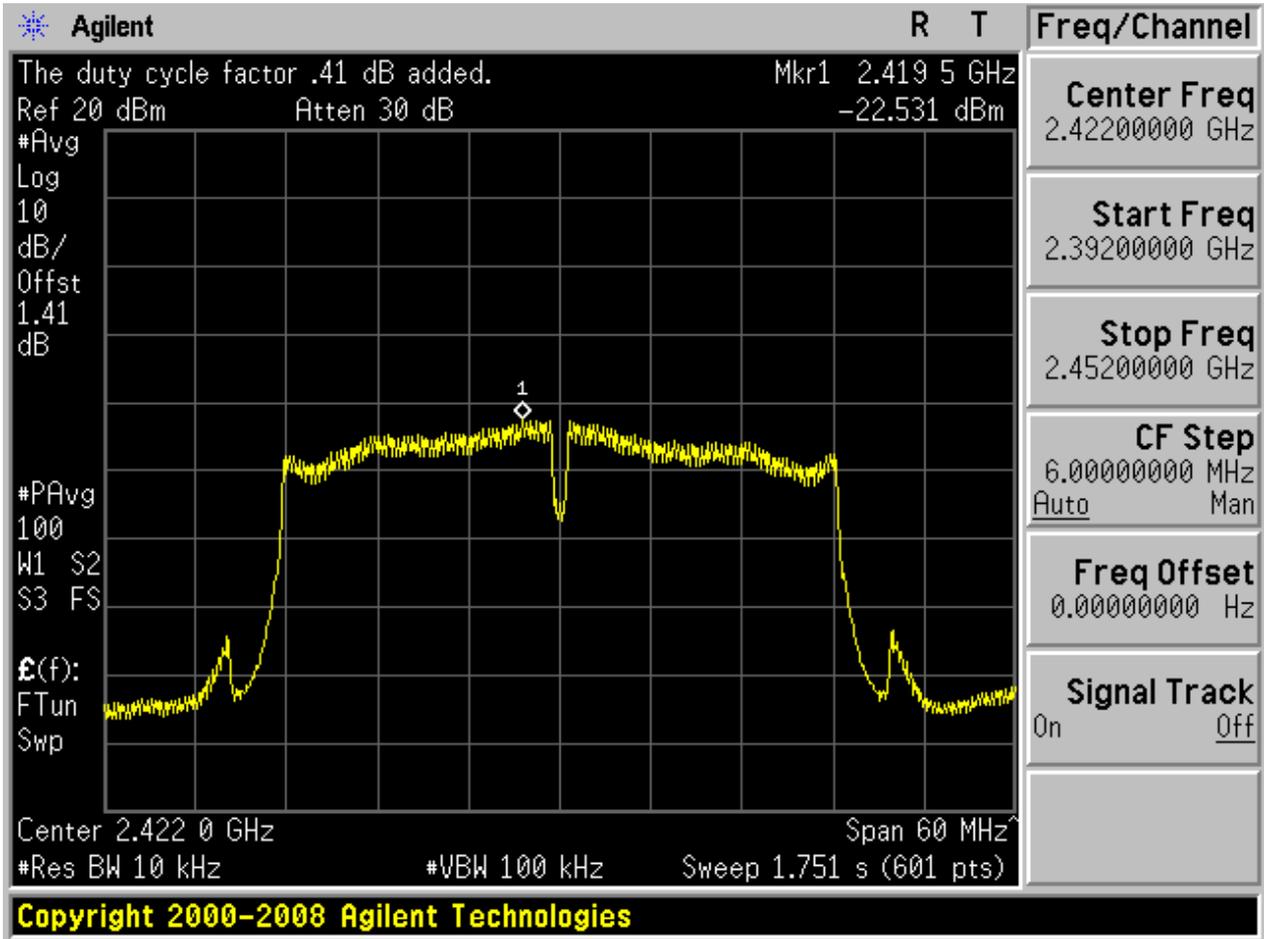


2.24 11N40\_H@Ant 2



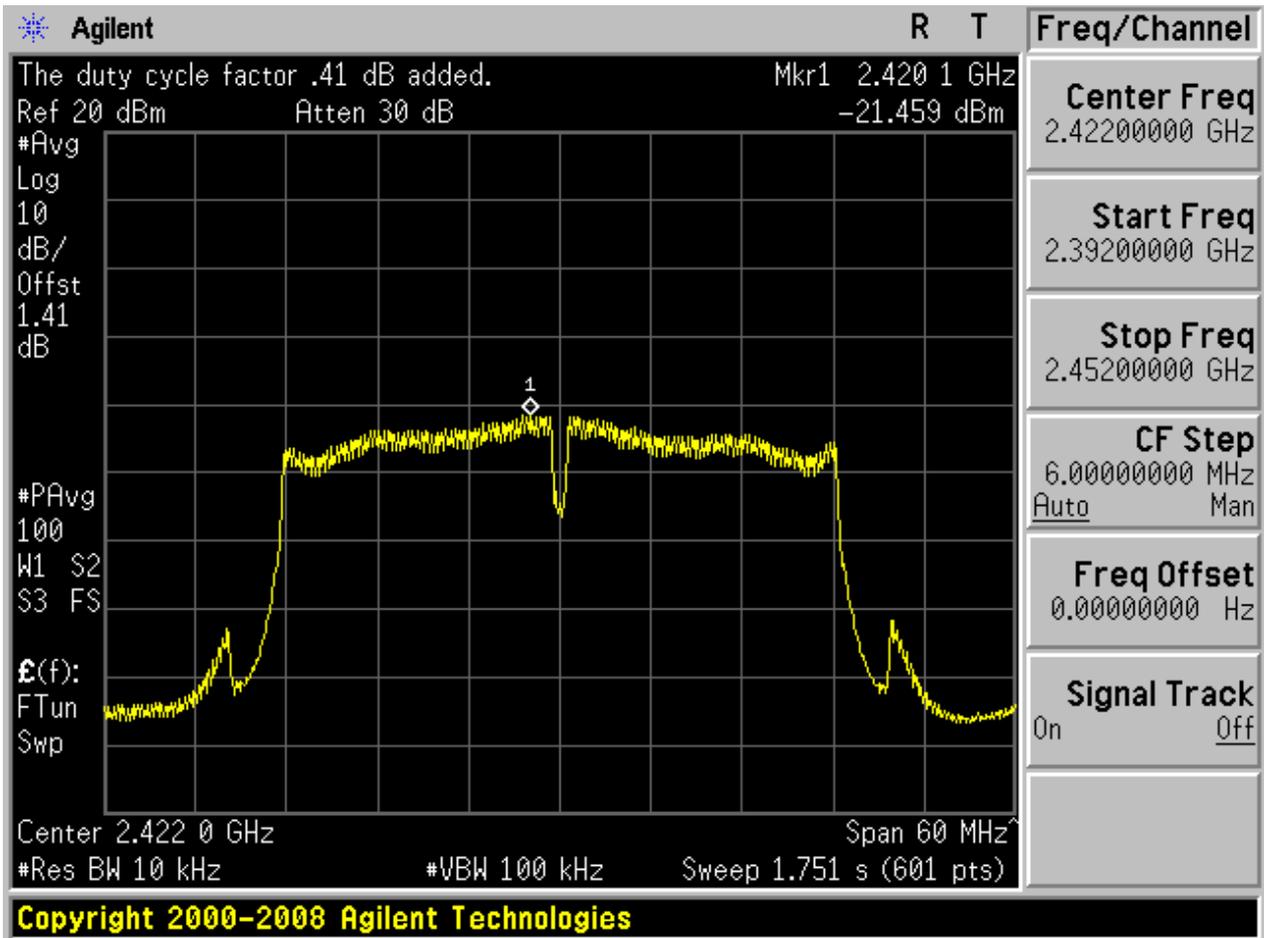


2.31 11N40m\_L@Ant 1



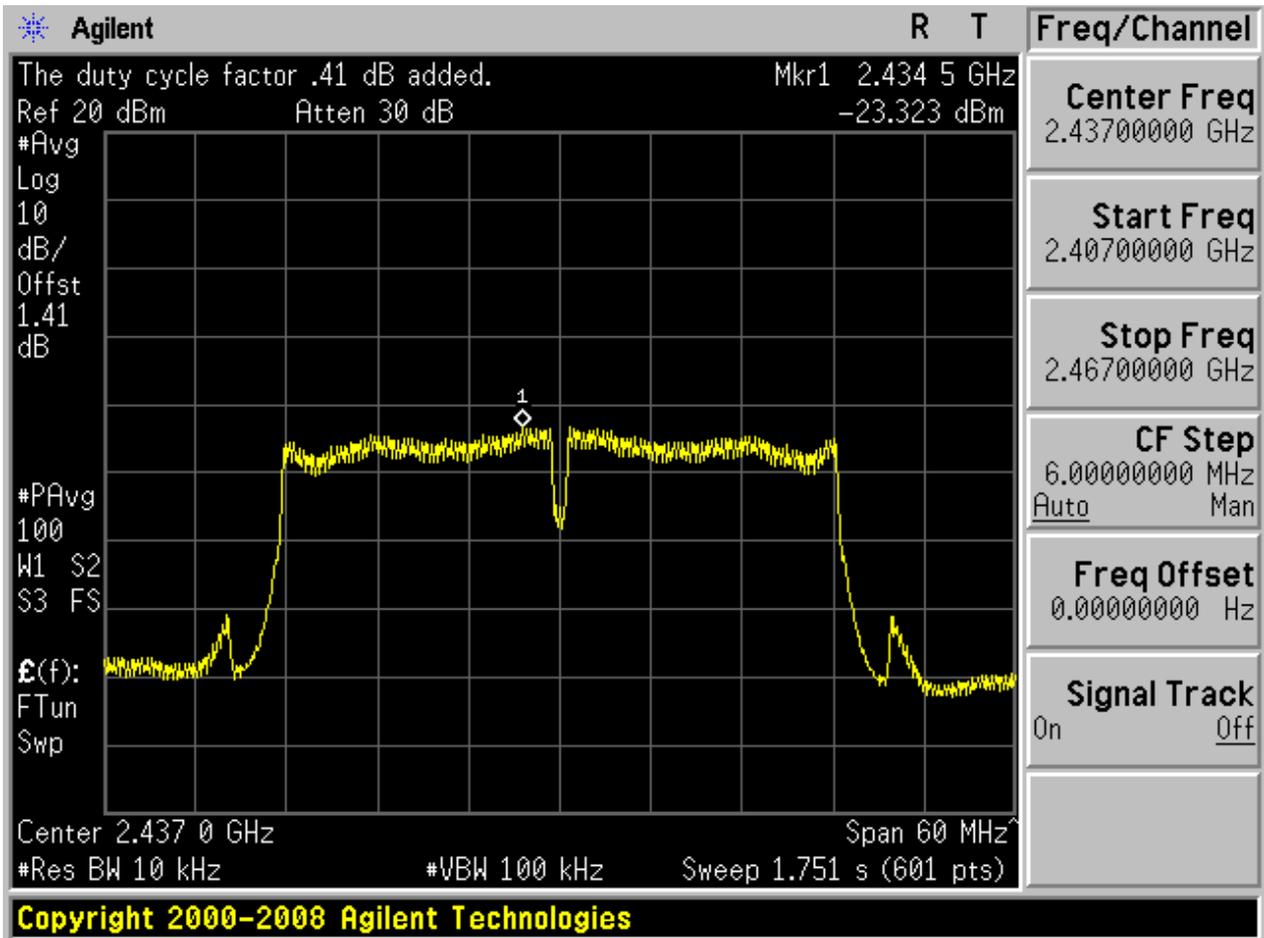


2.32 11N40m\_L@Ant 2



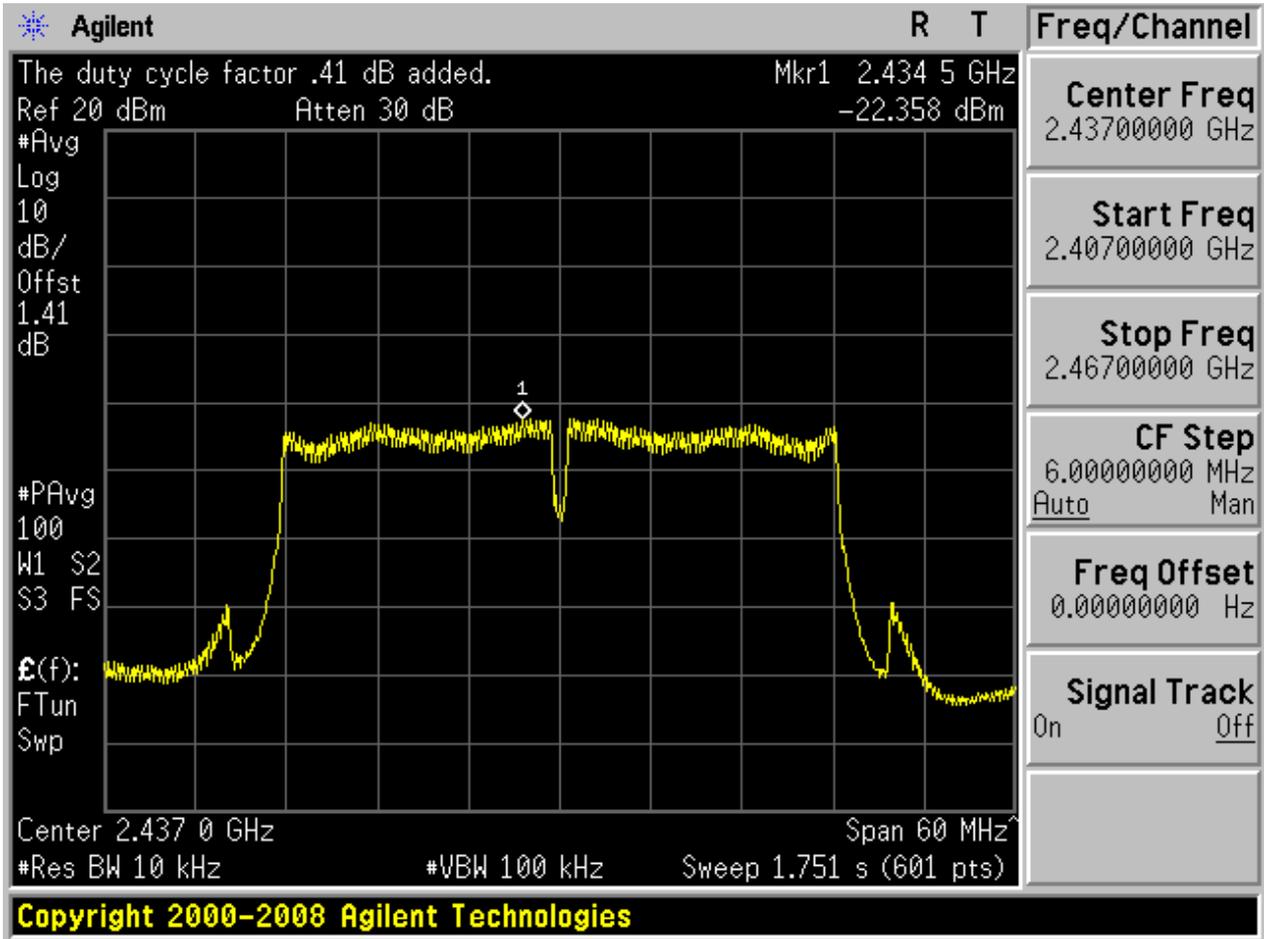


2.33 11N40m\_M@Ant 1



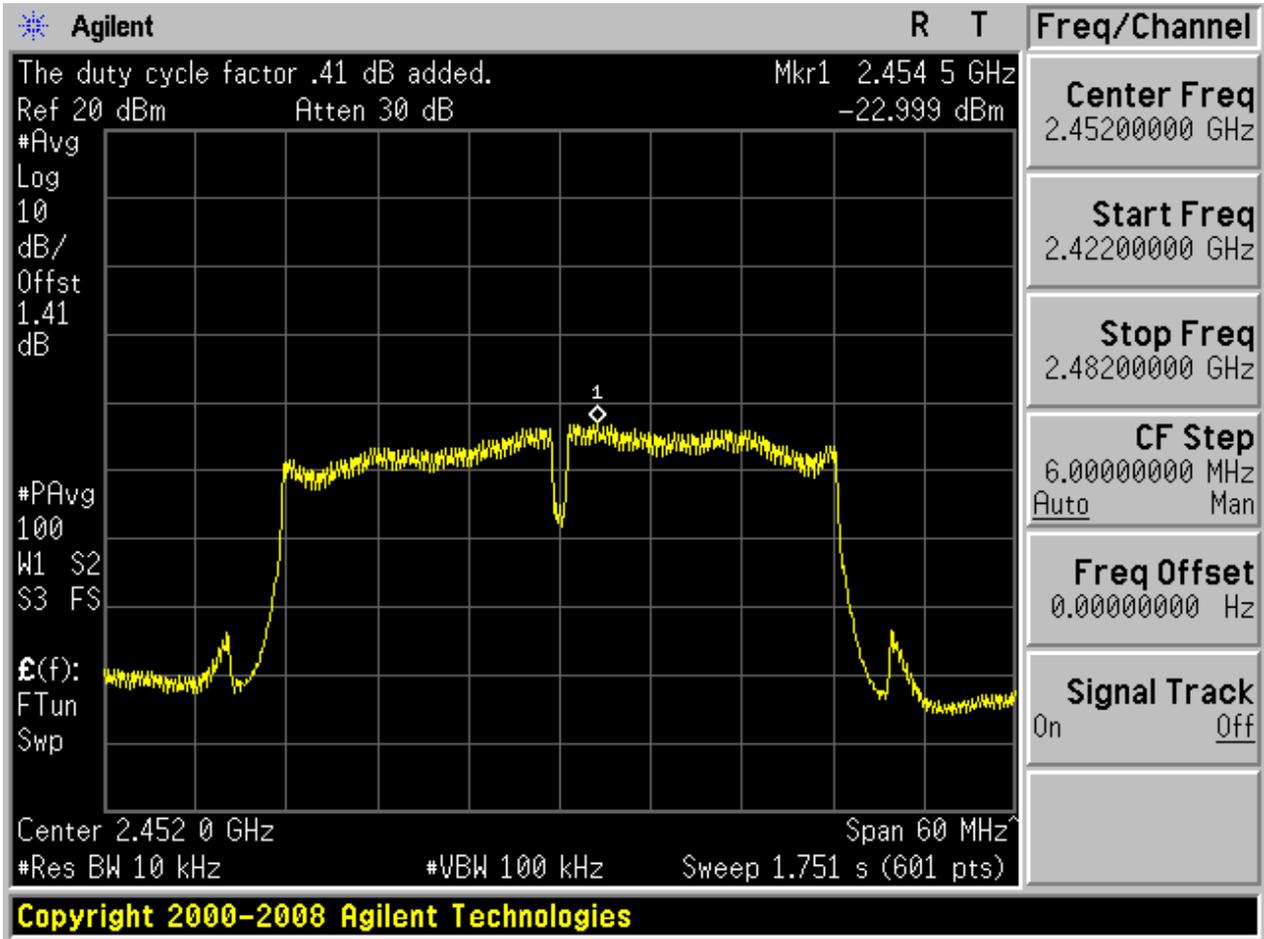


2.34 11N40m\_M@Ant 2



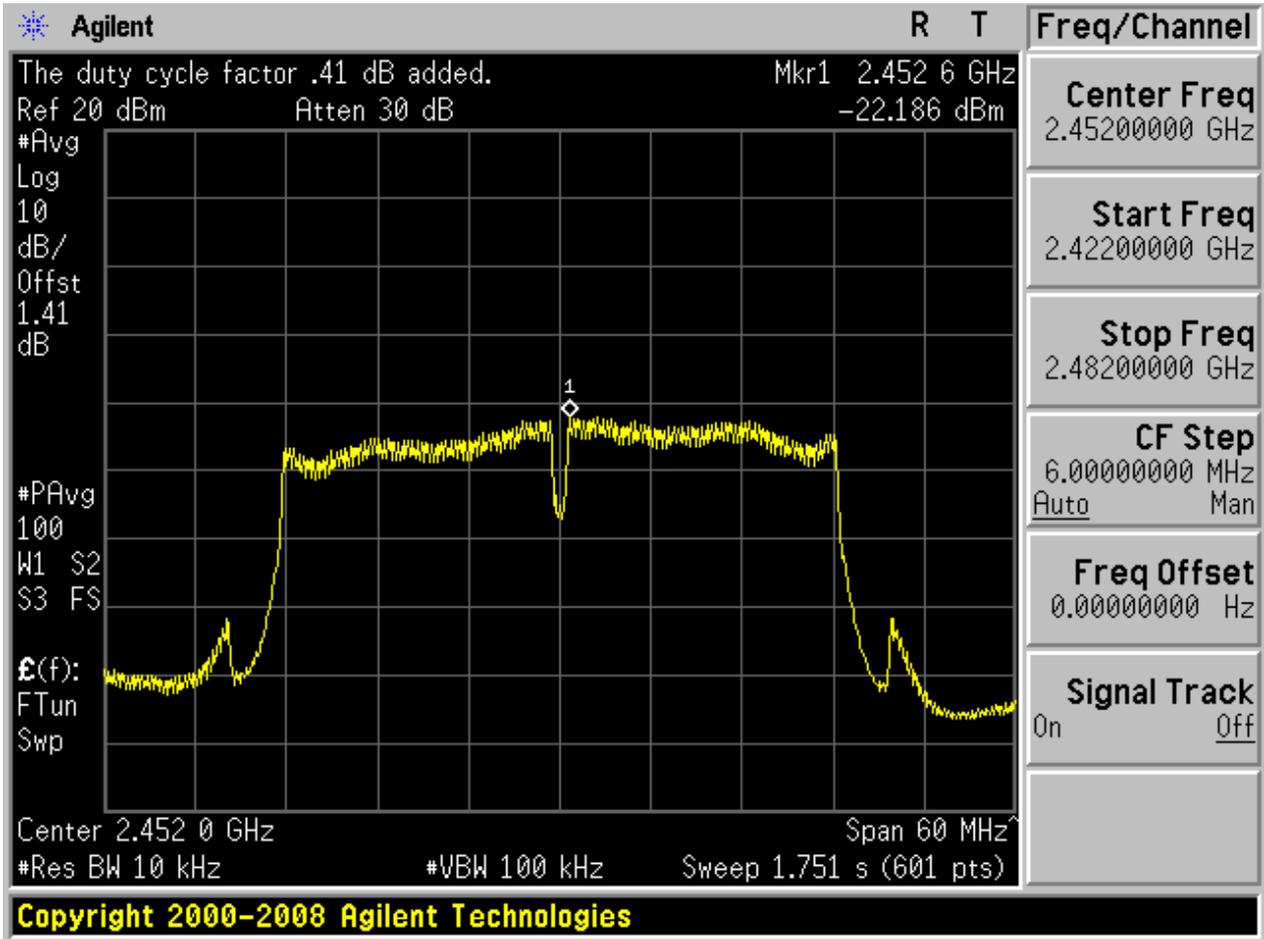


2.35 11N40m\_H@Ant 1





2.36 11N40m\_H@Ant 2





## Appendix E: Band Edges Compliance

### Part I - Test Results

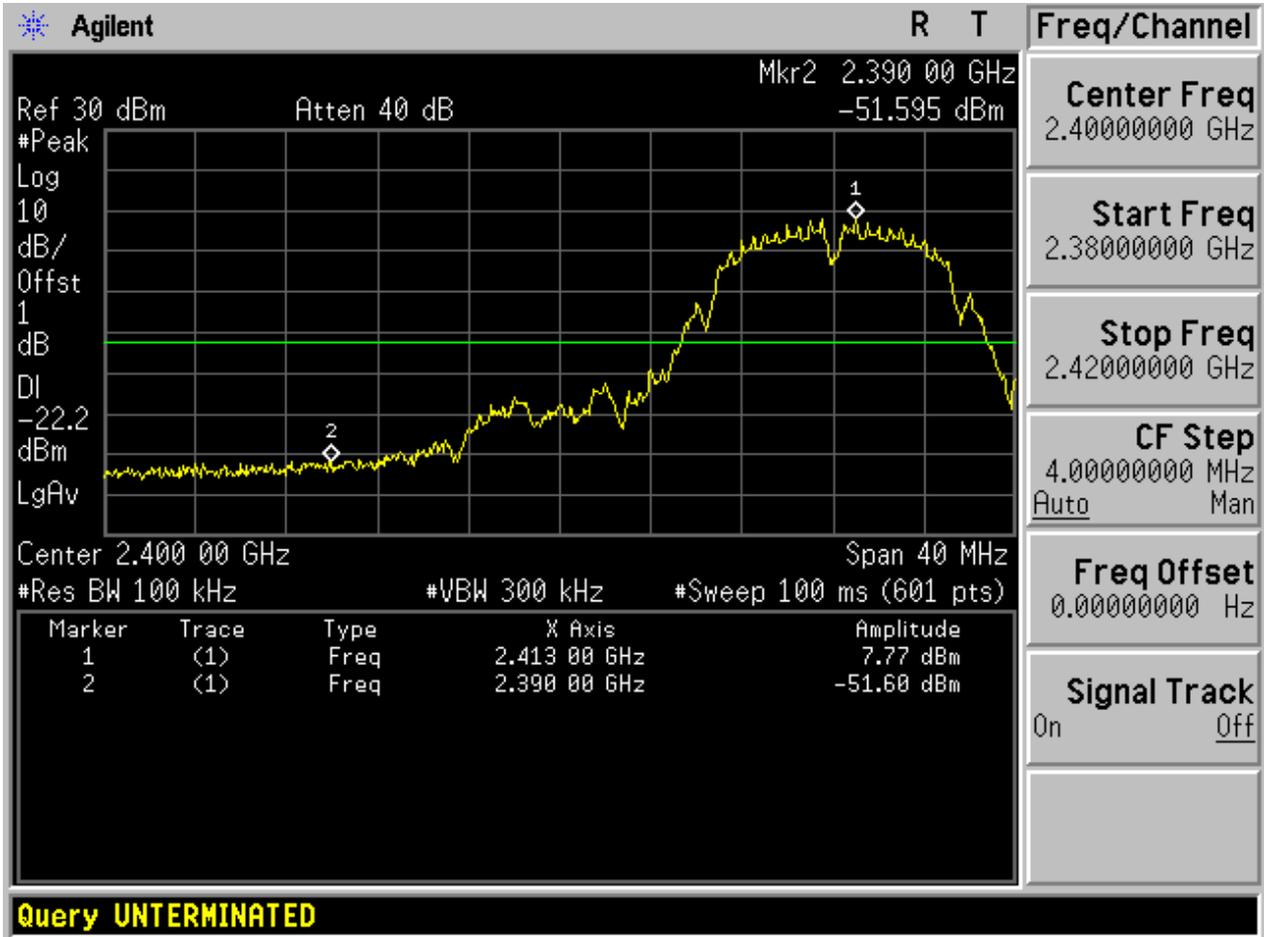
Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2412	Ant 1	7.77	-51.60	pass
11B	L	2412	Ant 2	8.42	-53.31	pass
11B	H	2462	Ant 1	6.93	-47.12	pass
11B	H	2462	Ant 2	7.97	-47.90	pass
11G	L	2412	Ant 1	.40	-49.34	pass
11G	L	2412	Ant 2	1.49	-50.85	pass
11G	H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



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

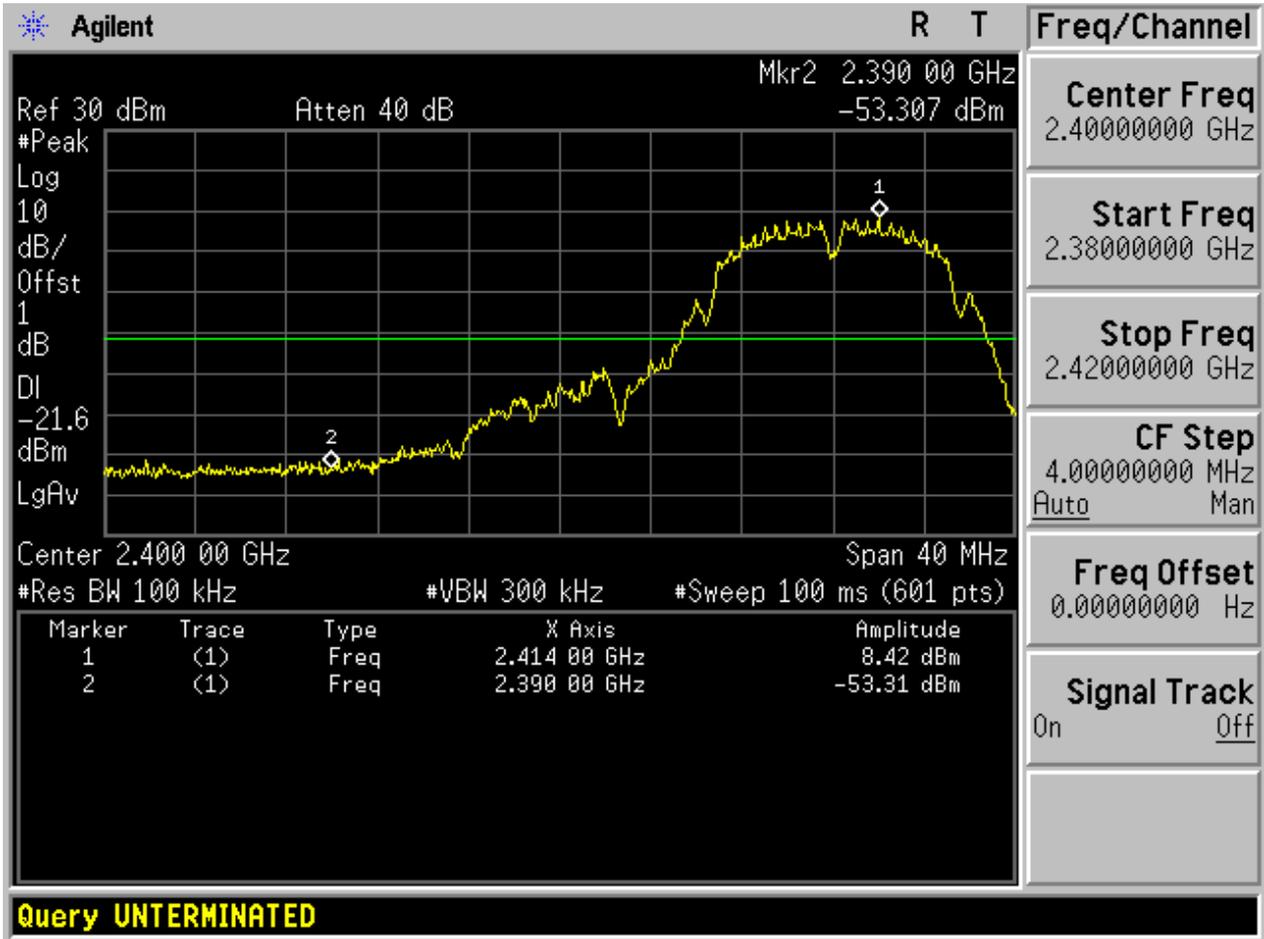
Part II - Test Plots

2.1 11B\_L@Ant 1



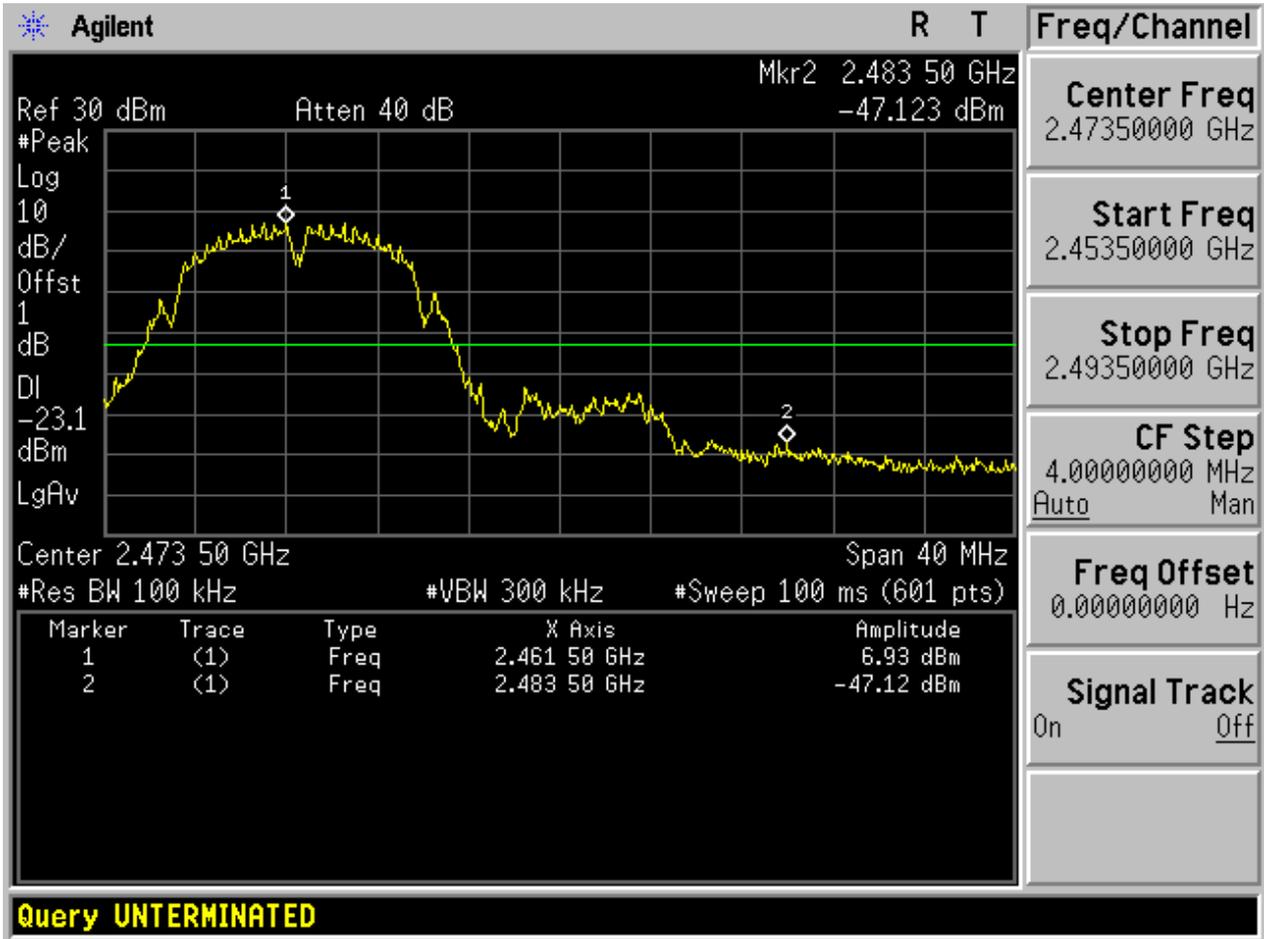


2.2 11B\_L@Ant 2

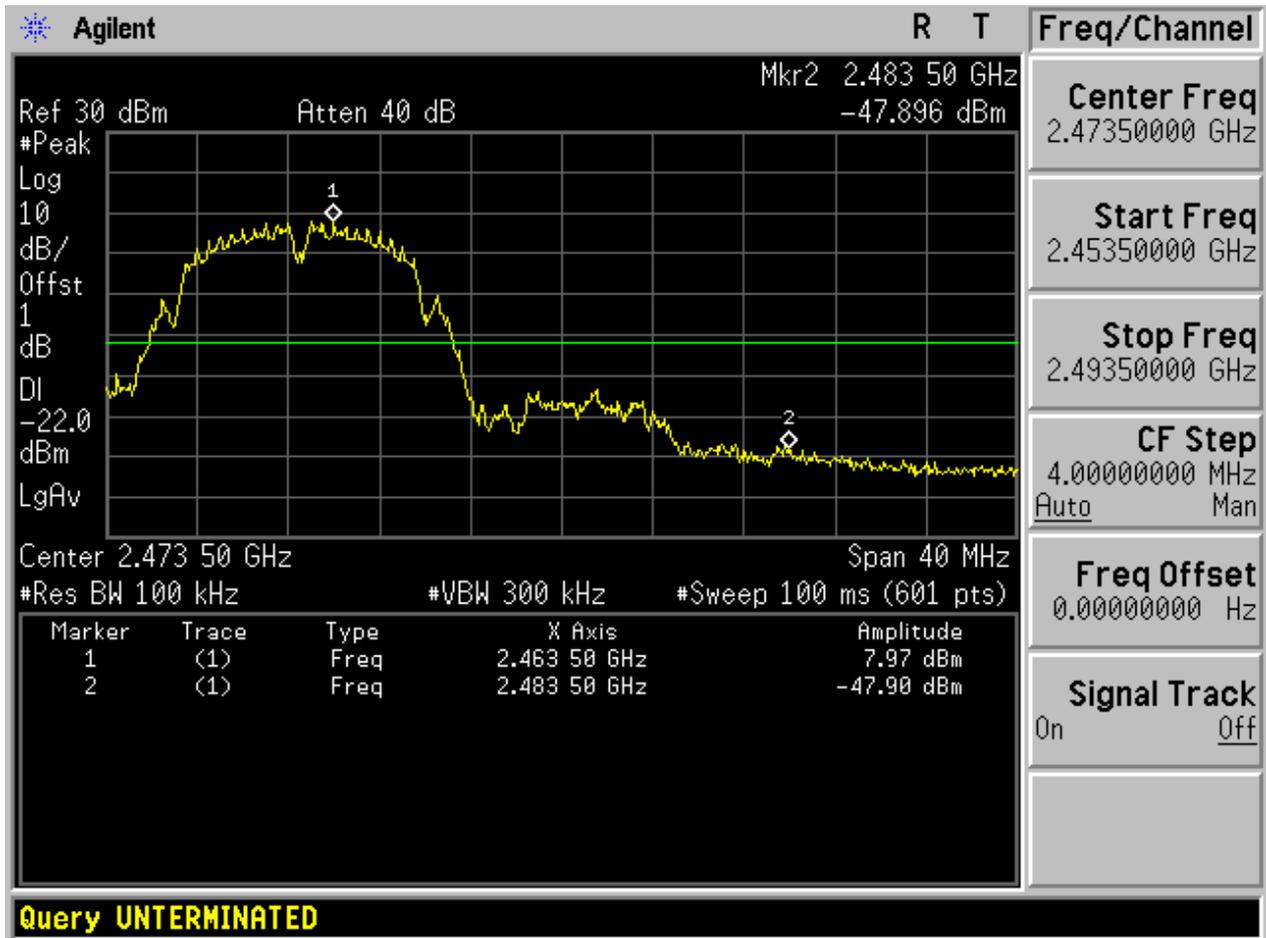




2.3 11B\_H@Ant 1

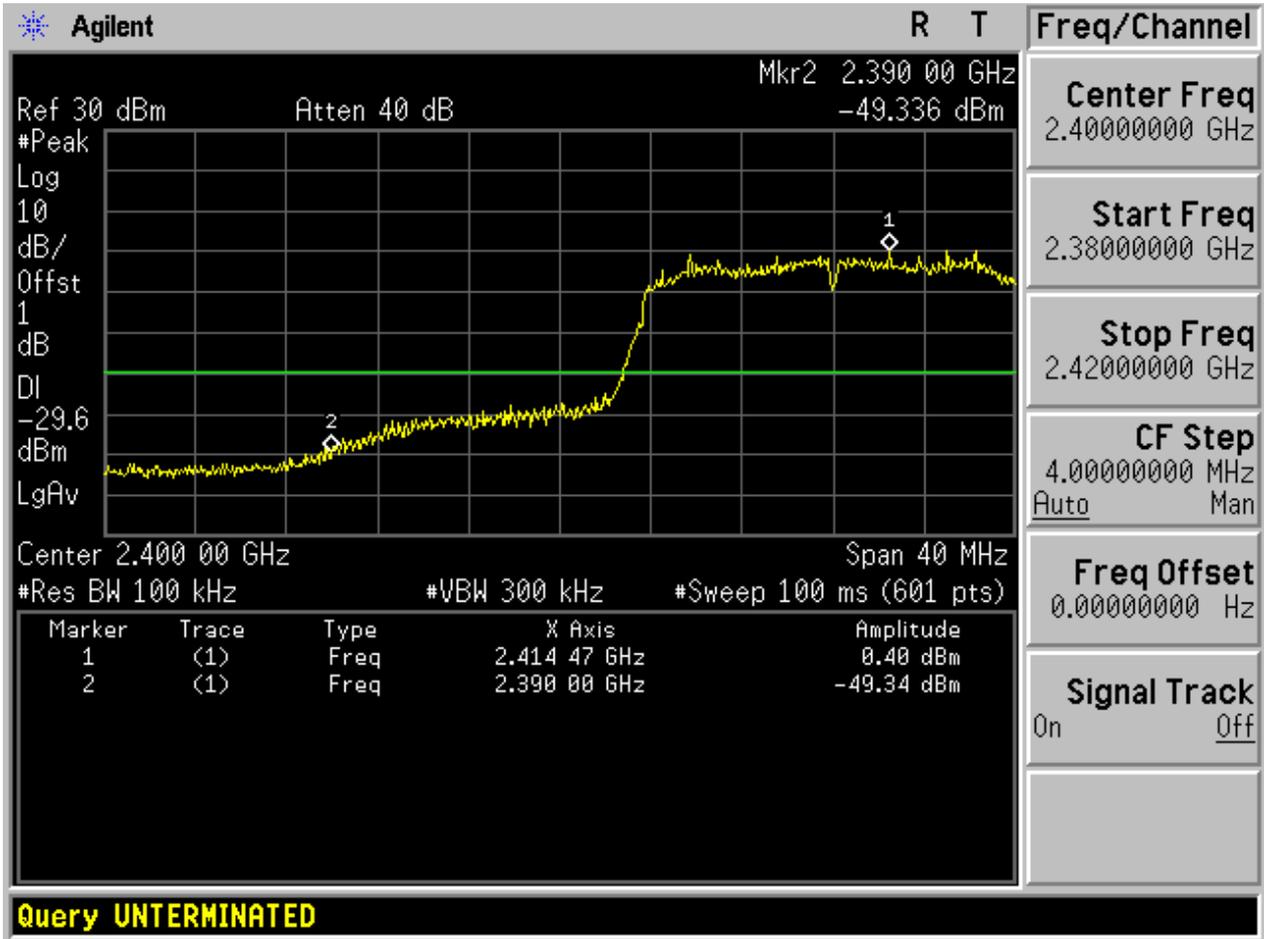


## 2.4 11B\_H@Ant 2



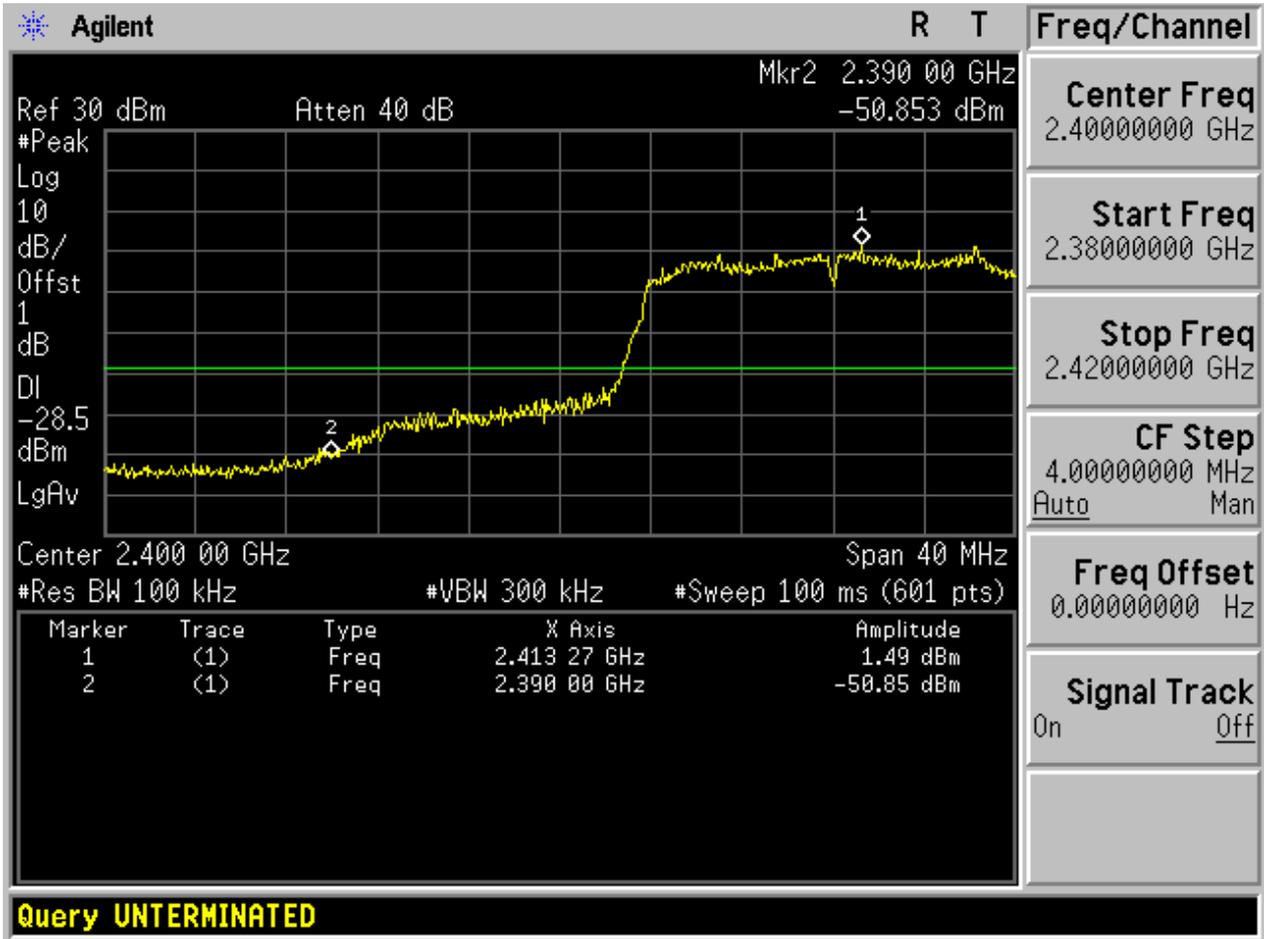


2.5 11G\_L@Ant 1



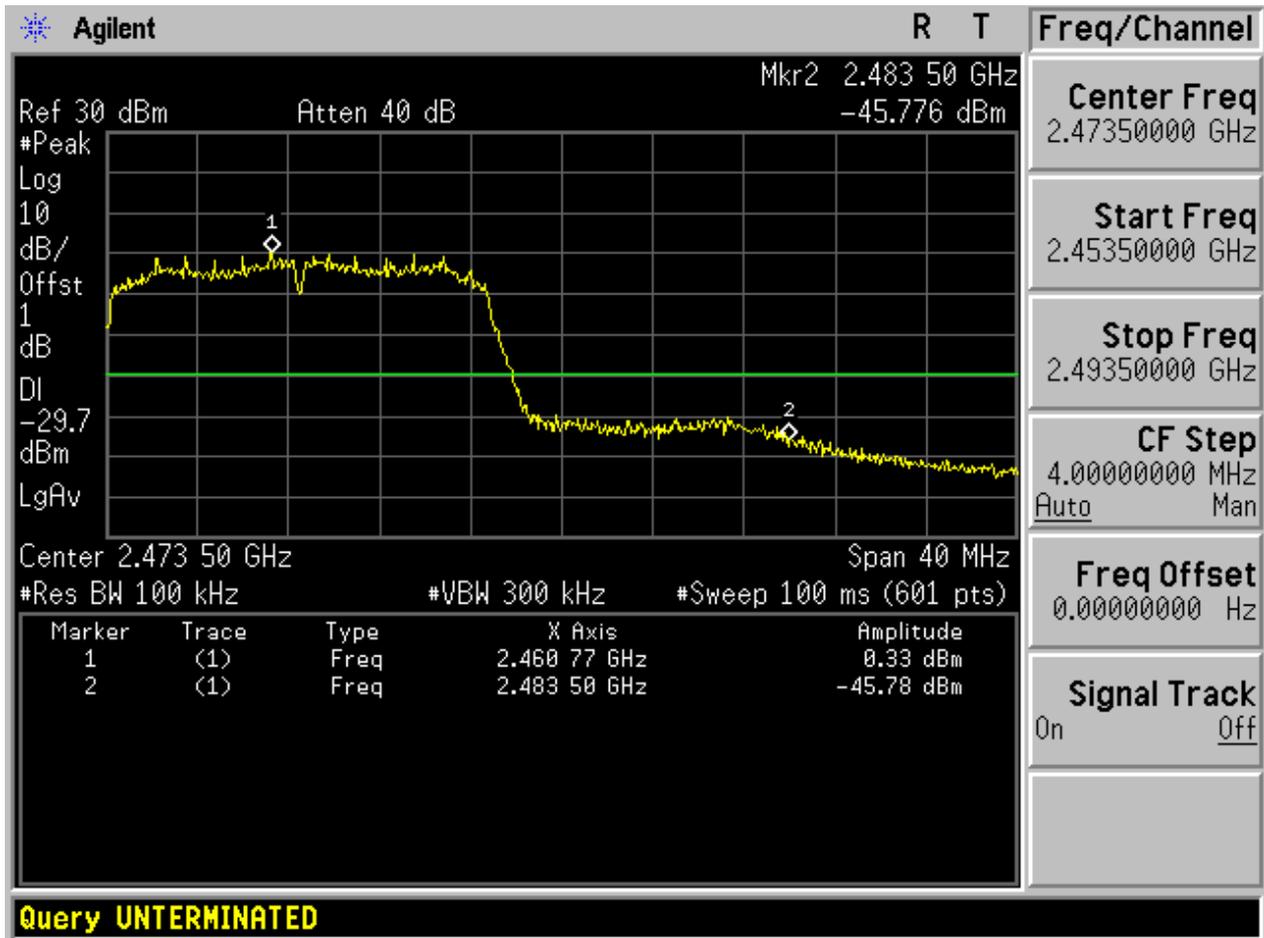


2.6 11G\_L@Ant 2

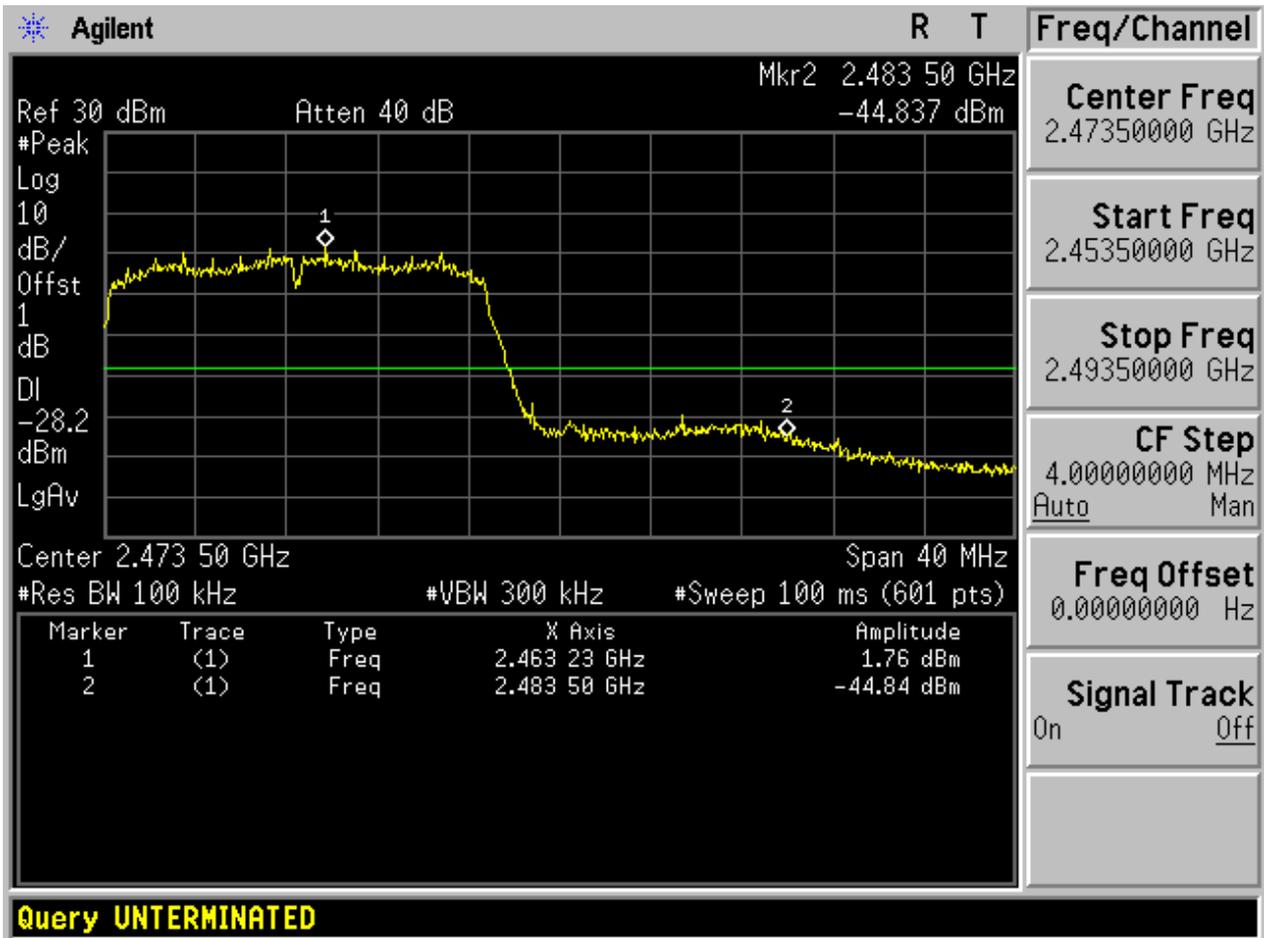




## 2.7 11G\_H@Ant 1

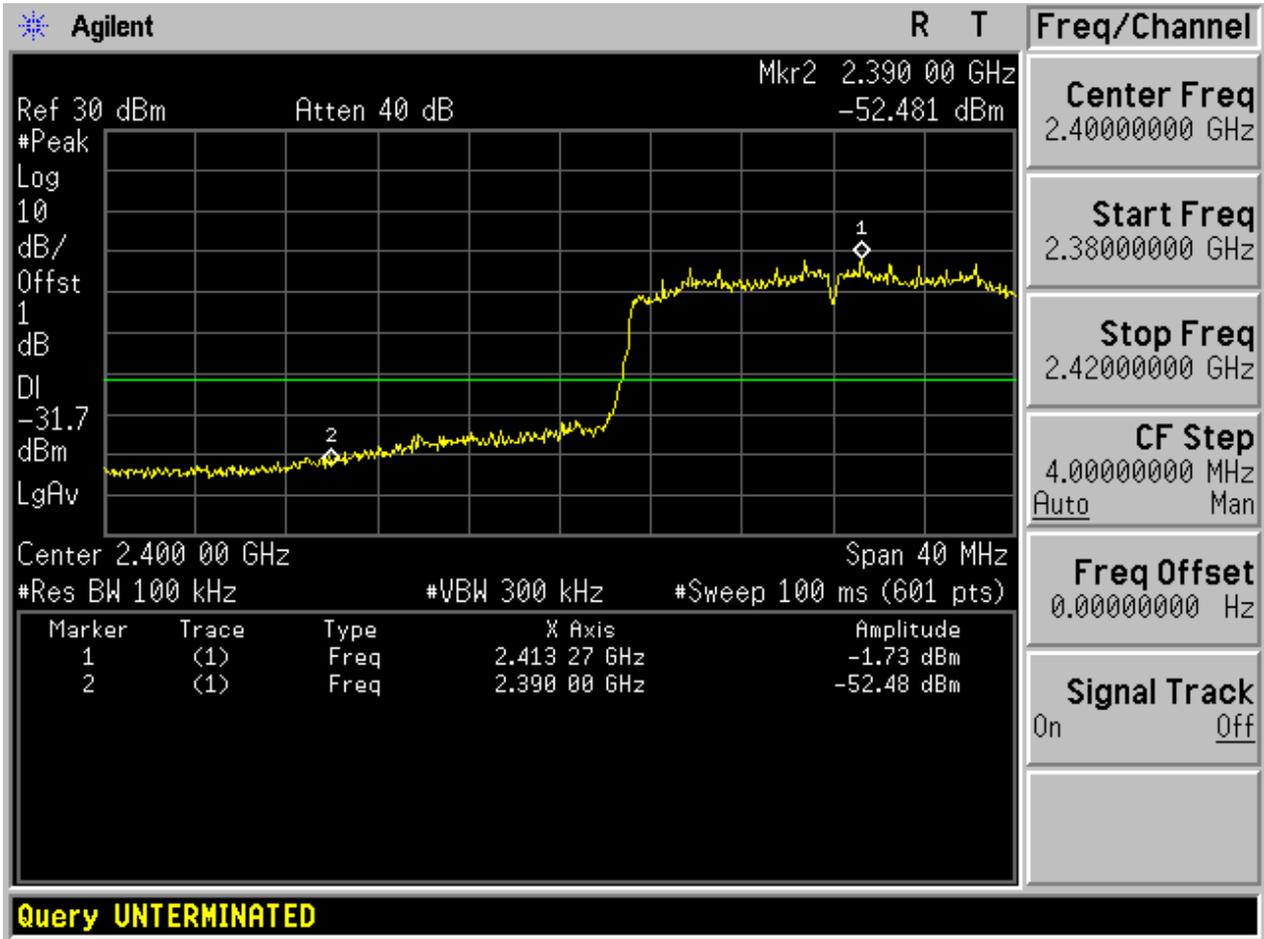


2.8 11G\_H@Ant 2



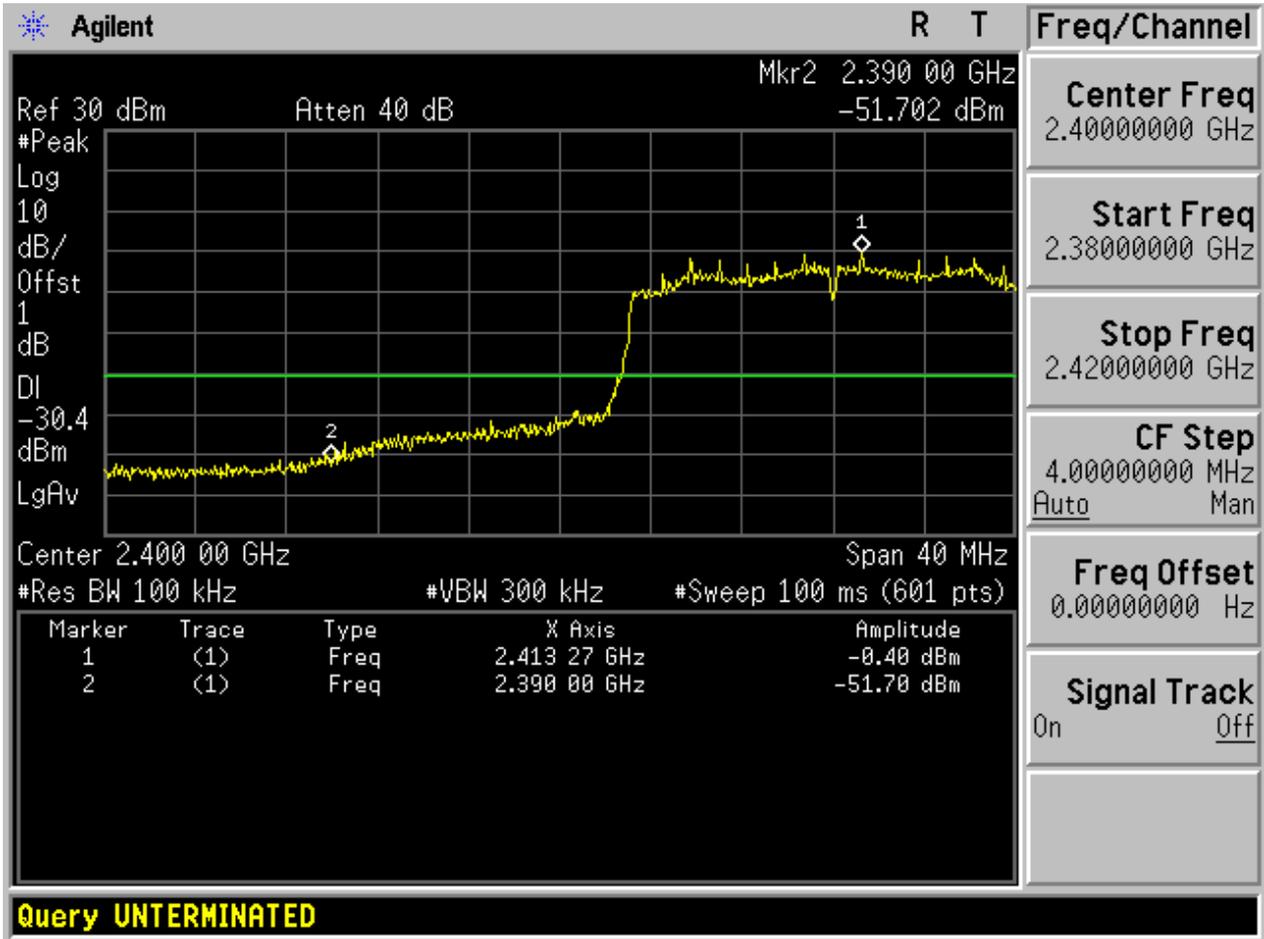


2.9 11N20\_L@Ant 1



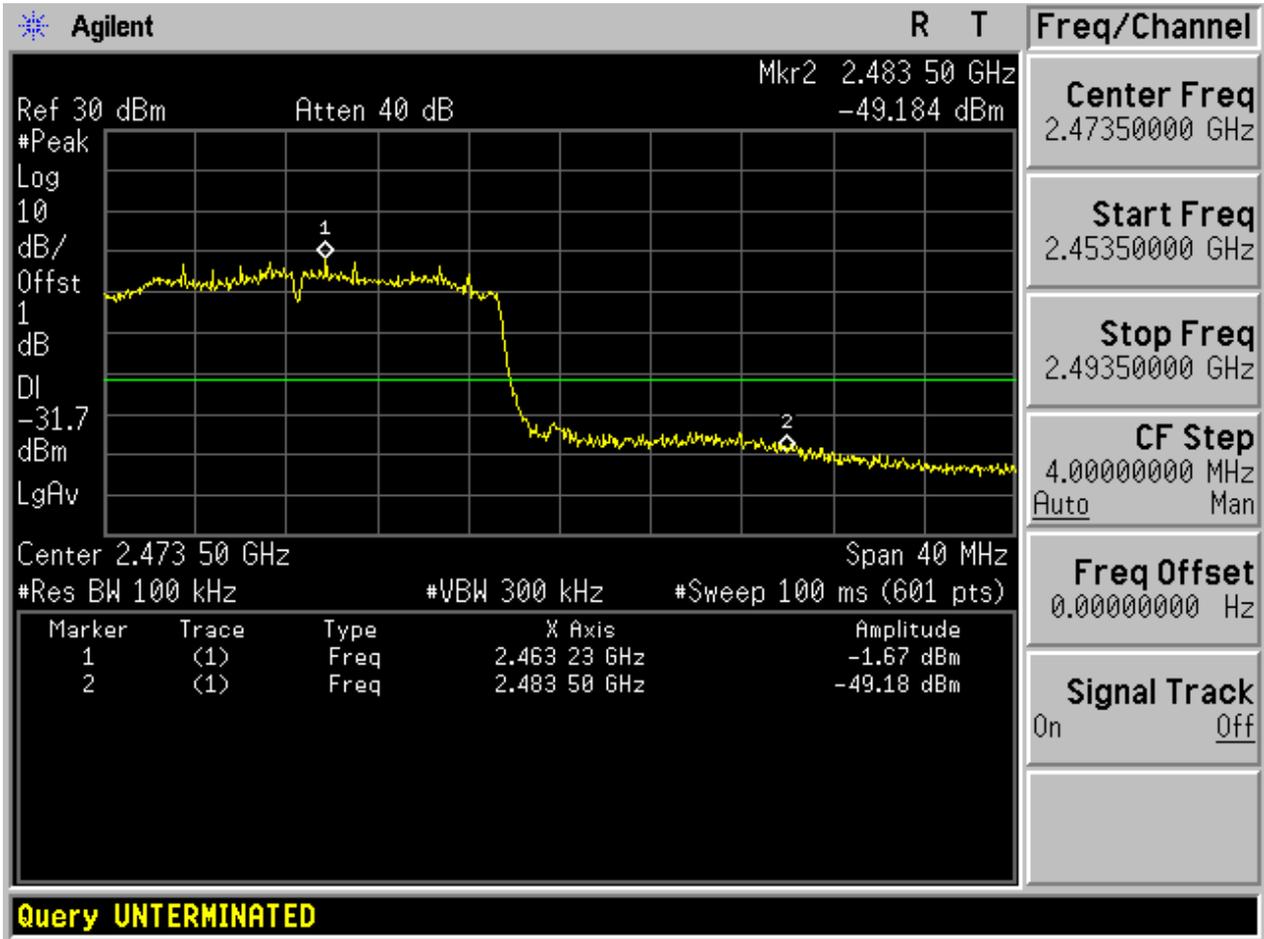


2.10 11N20\_L@Ant 2



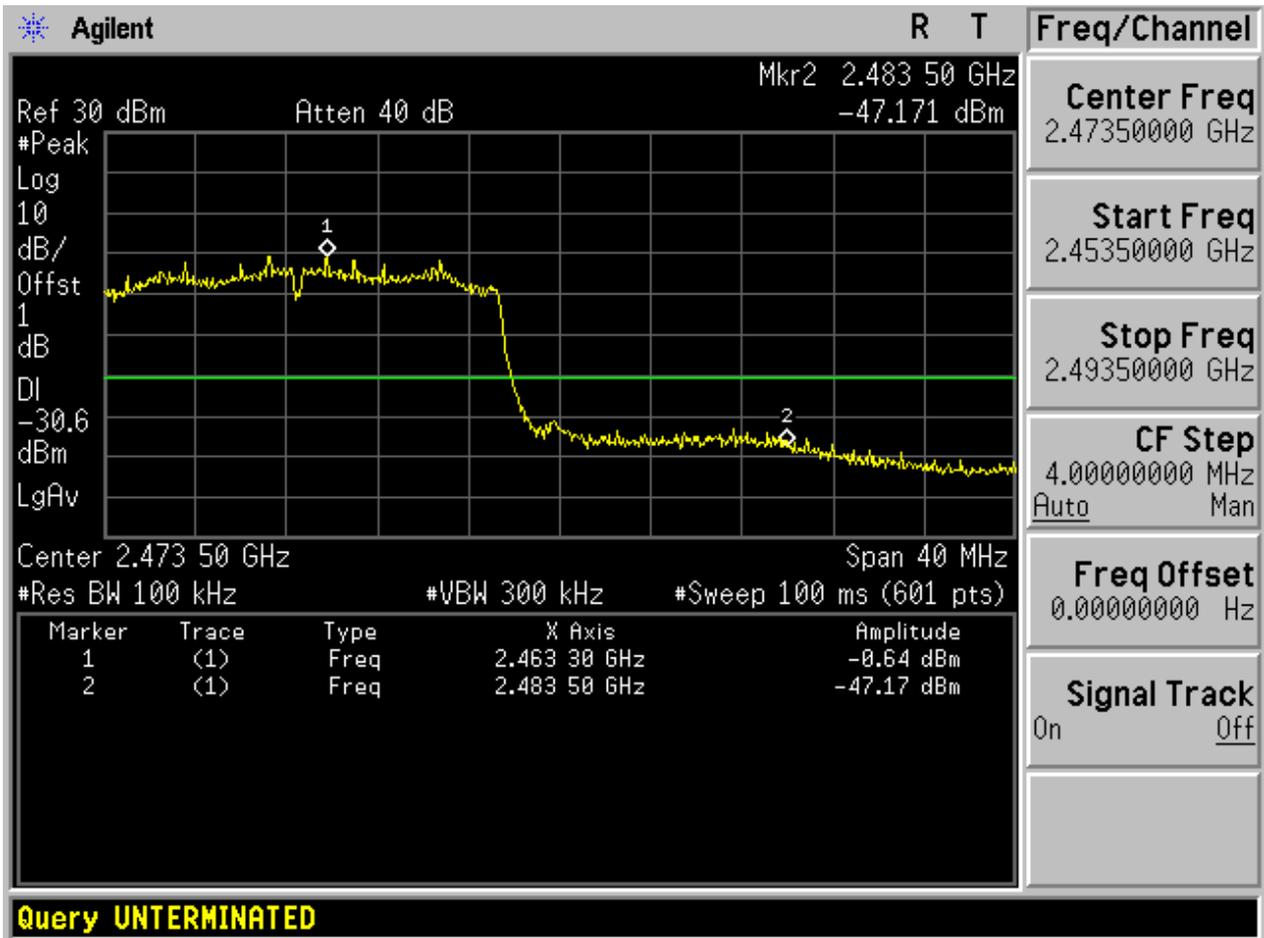


2.11 11N20\_H@Ant 1



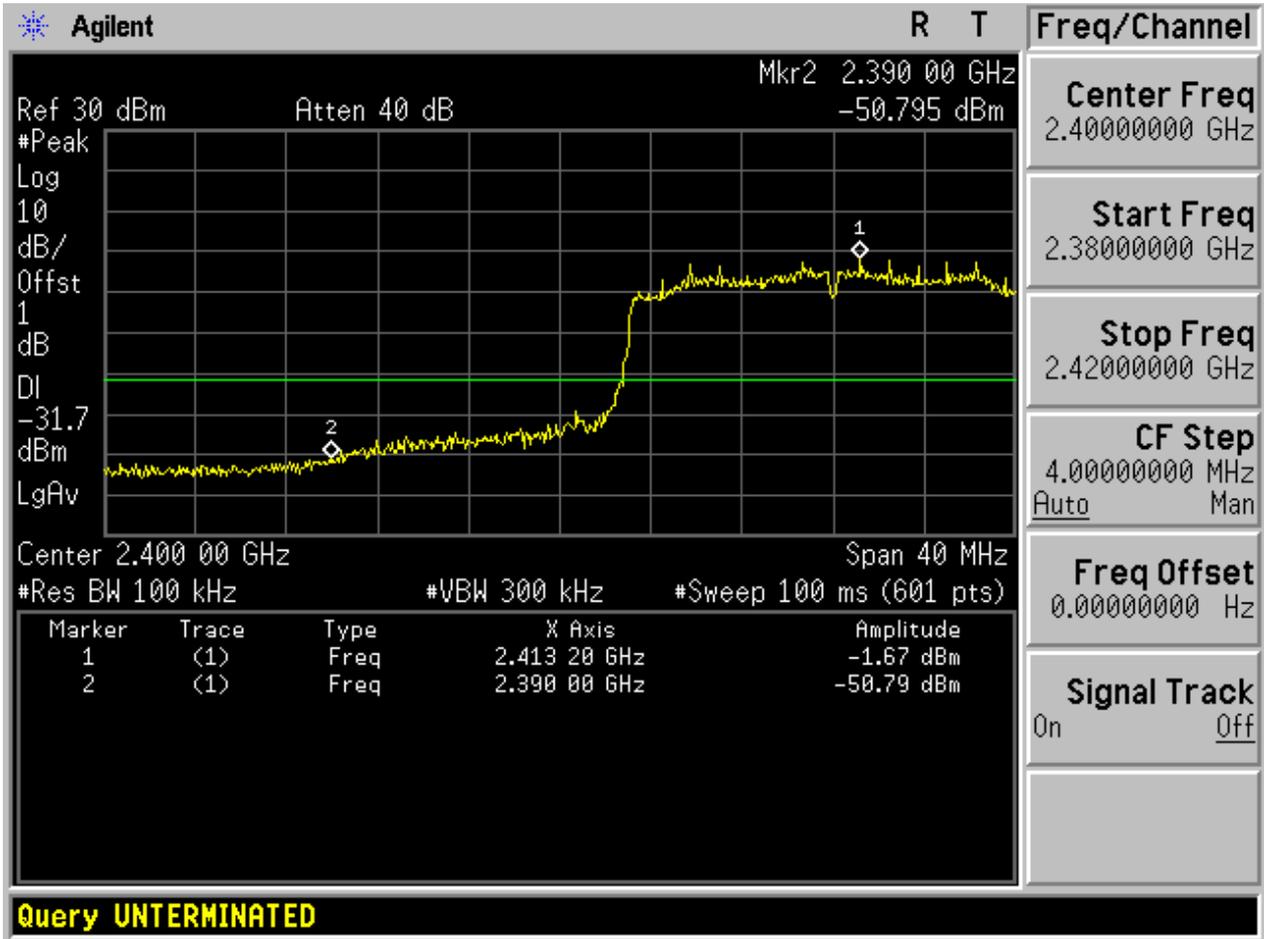


2.12 11N20\_H@Ant 2



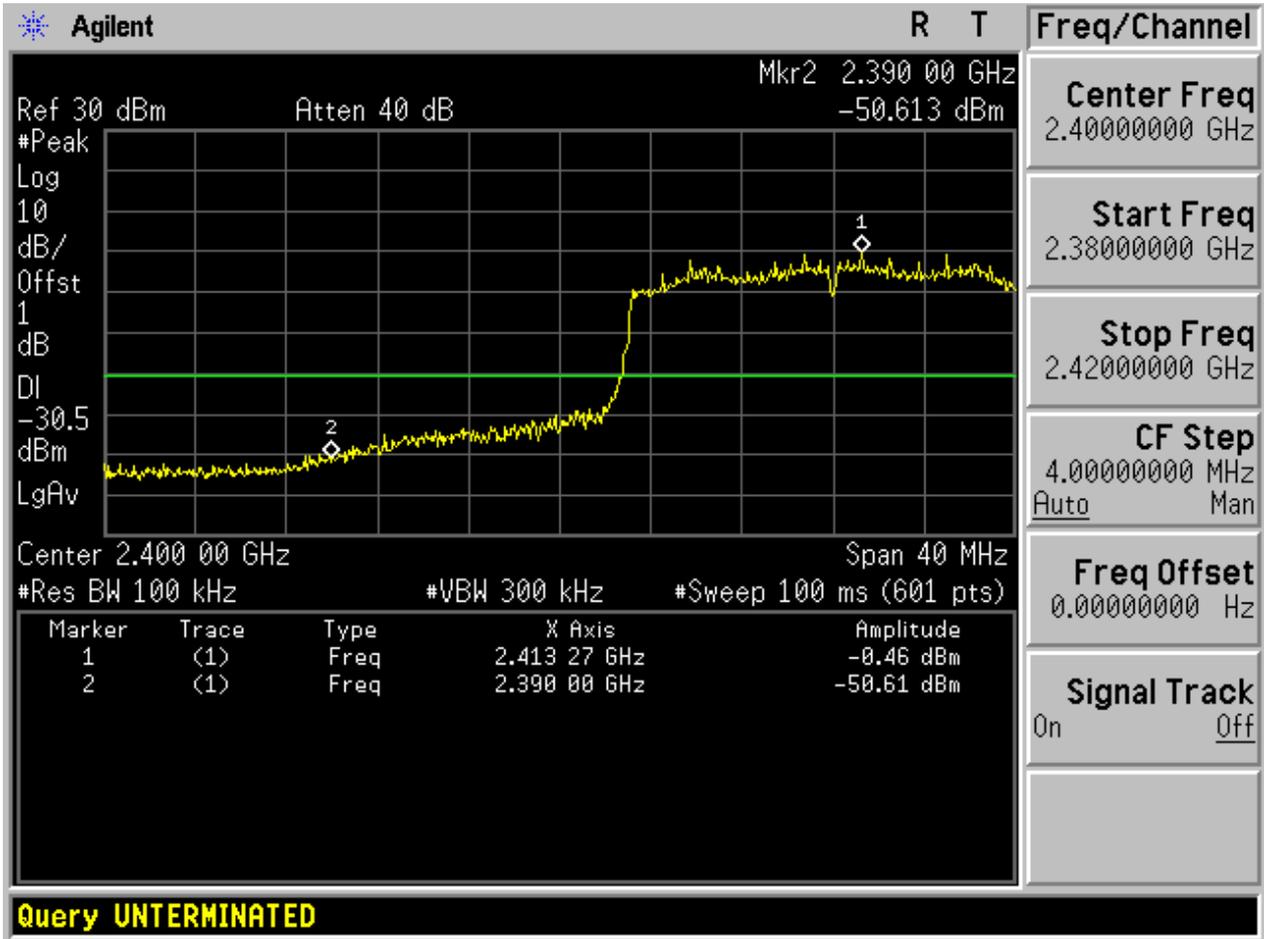


2.9 11N20m\_L@Ant 1



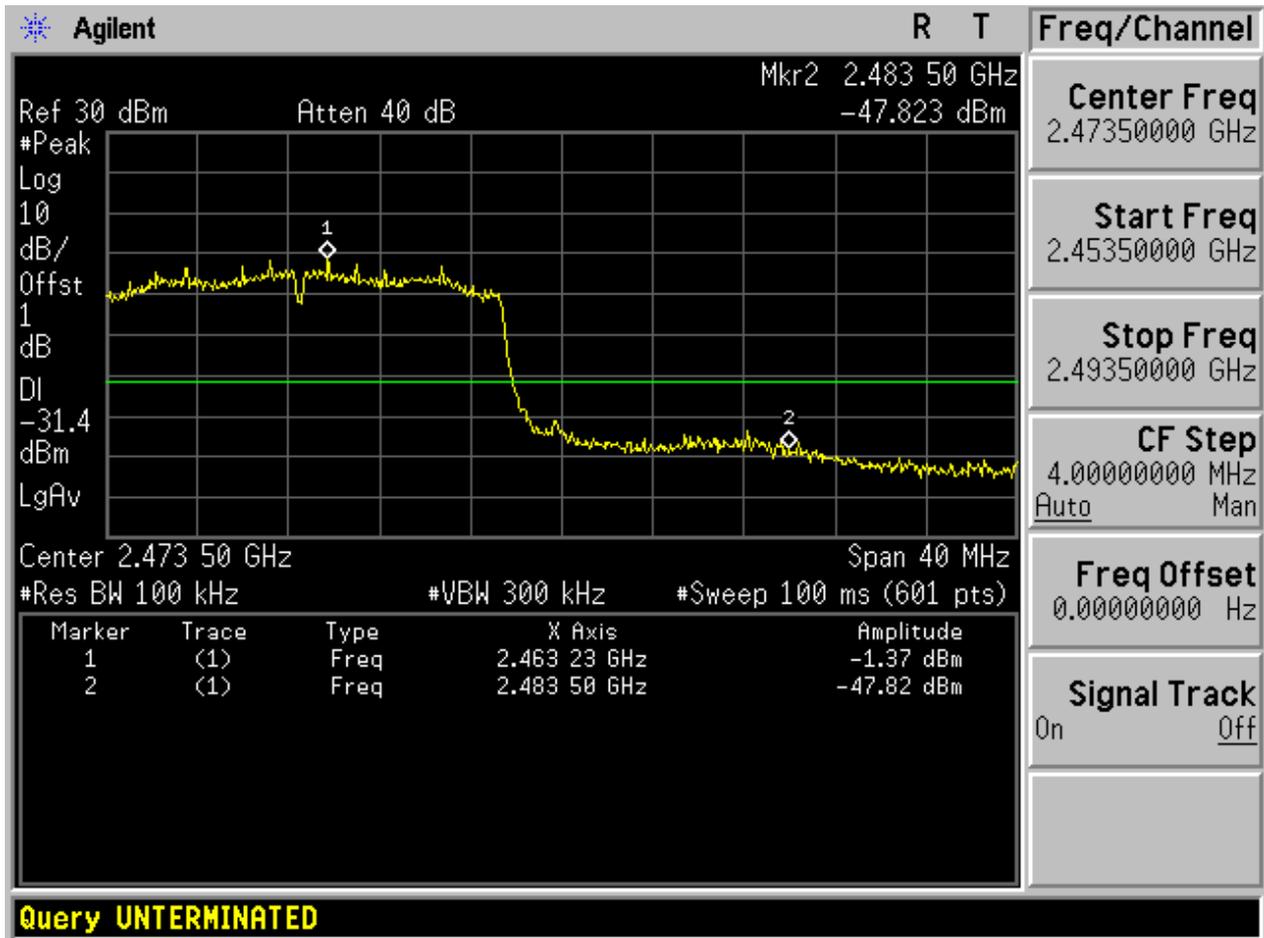


2.10 11N20m\_L@Ant 2



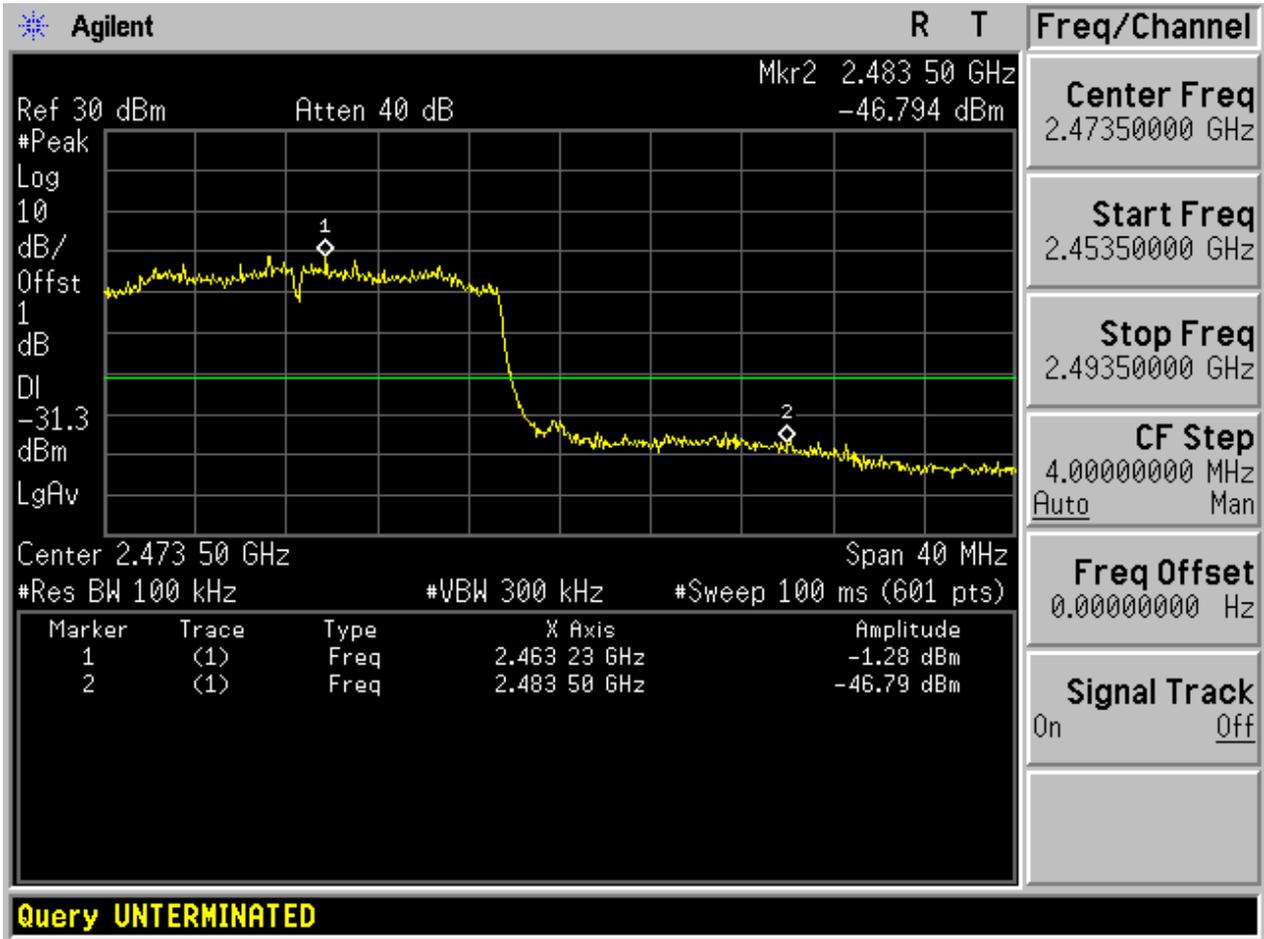


## 2.11 11N20m\_H@Ant 1



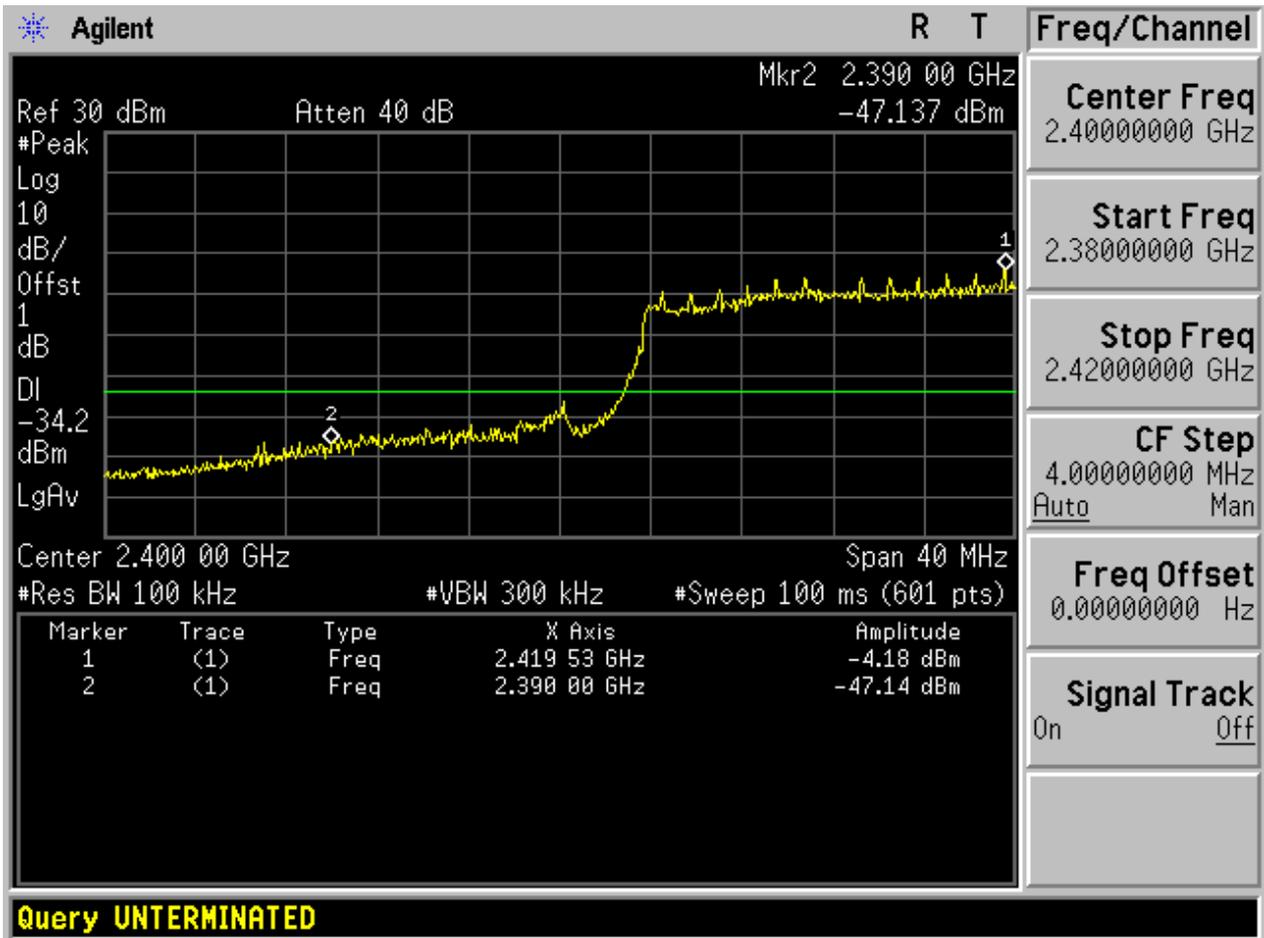


2.12 11N20m\_H@Ant 2



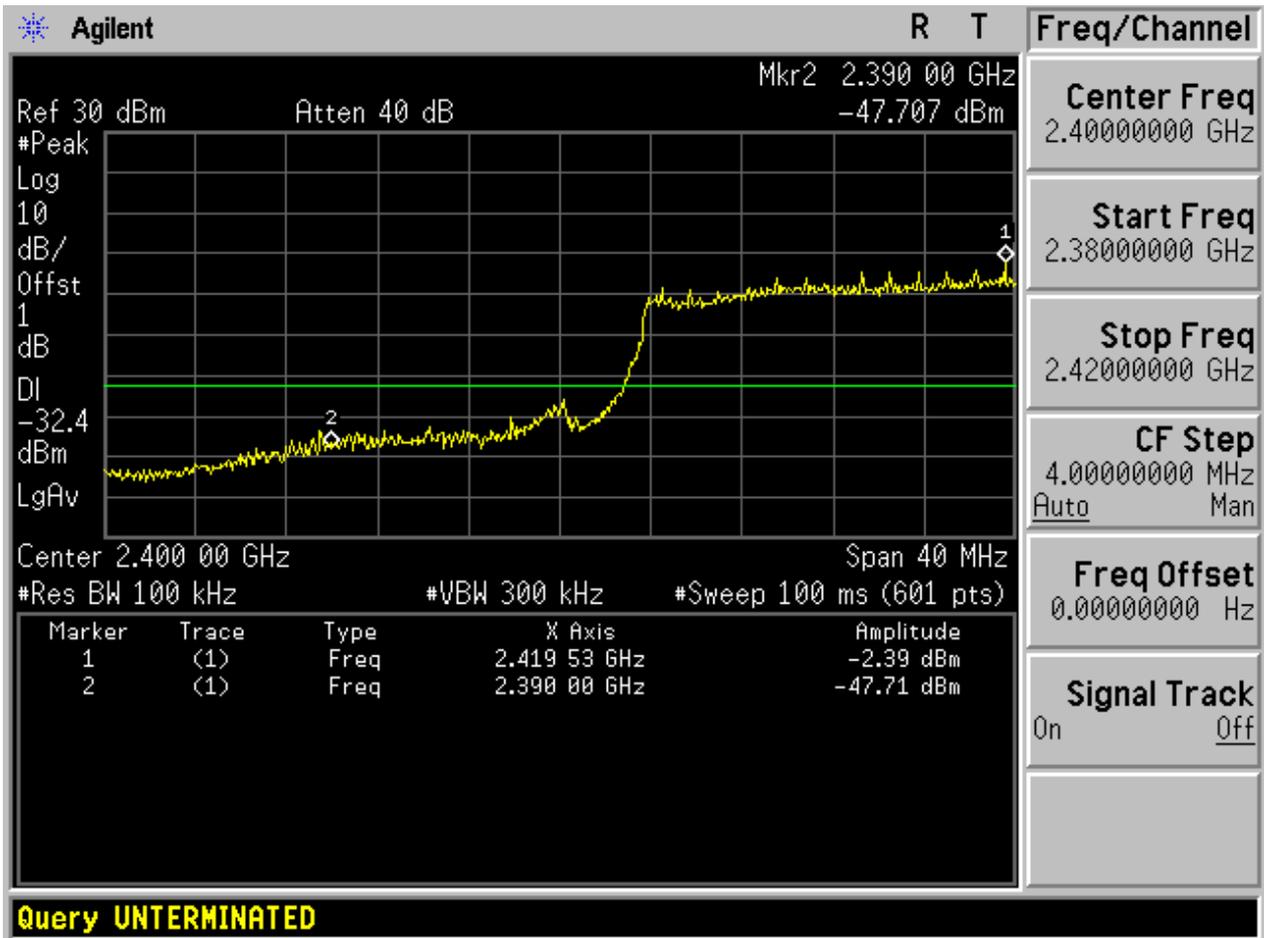


2.13 11N40\_L@Ant 1



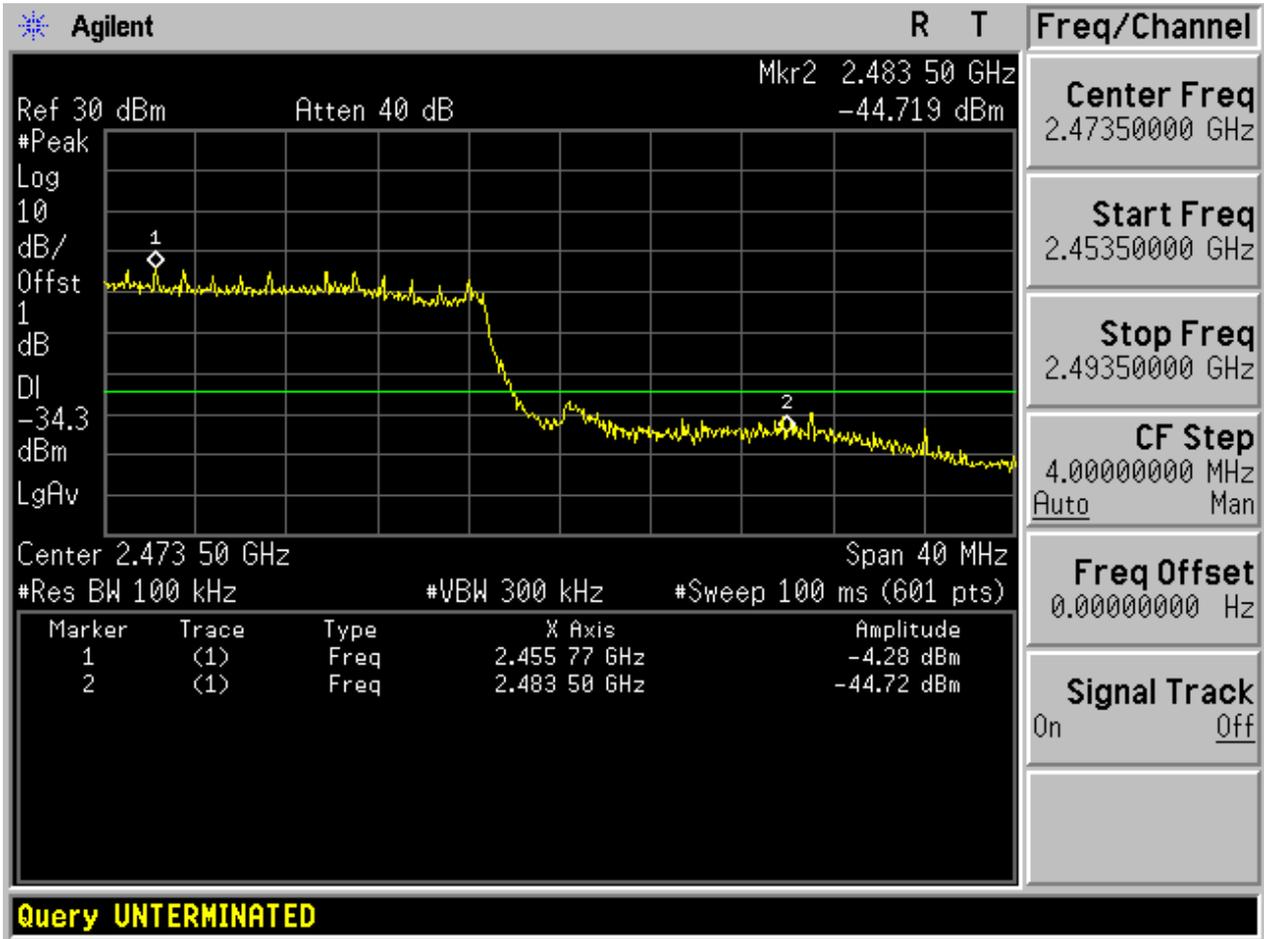


2.14 11N40\_L@Ant 2



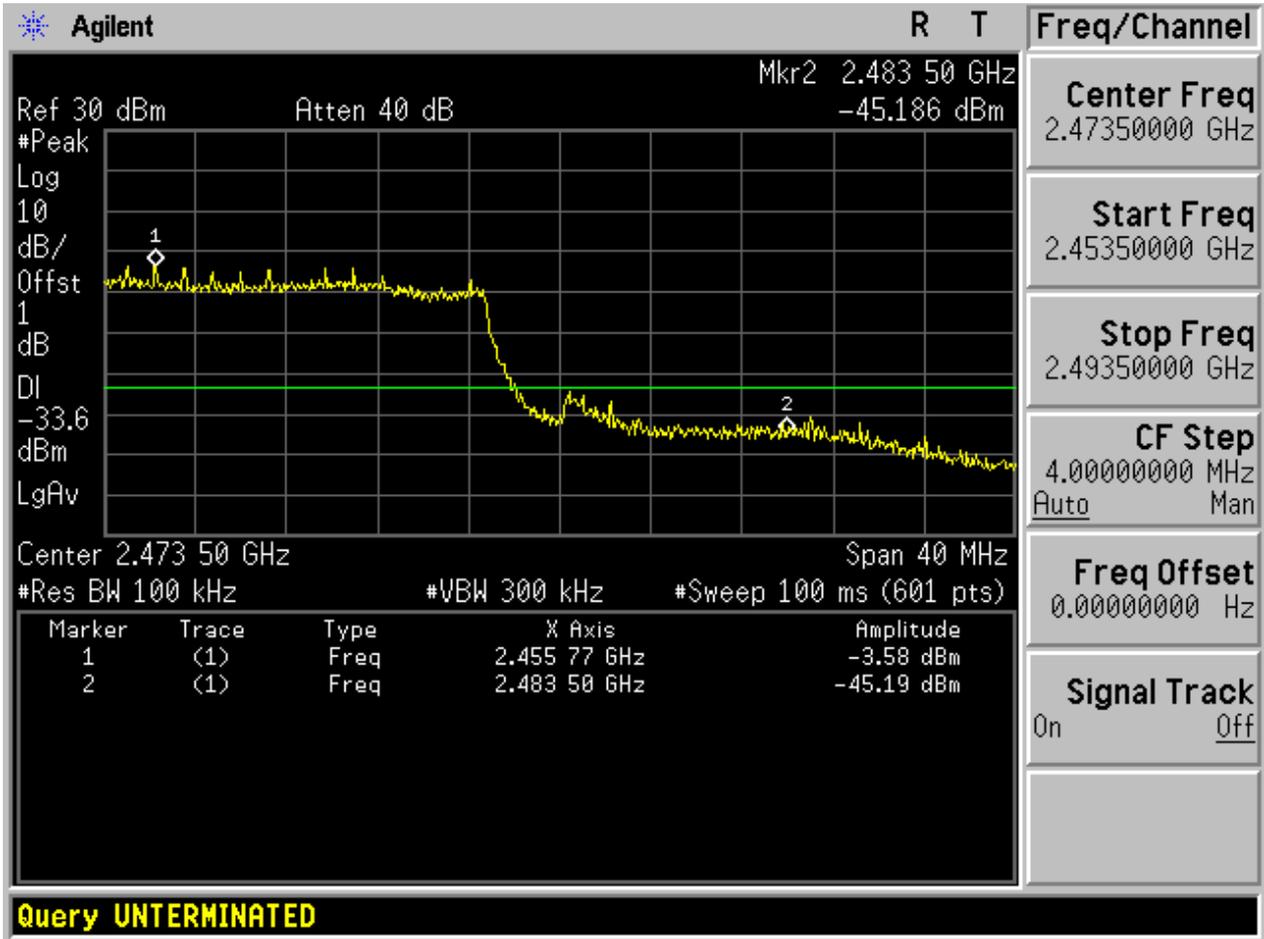


2.15 11N40\_H@Ant 1



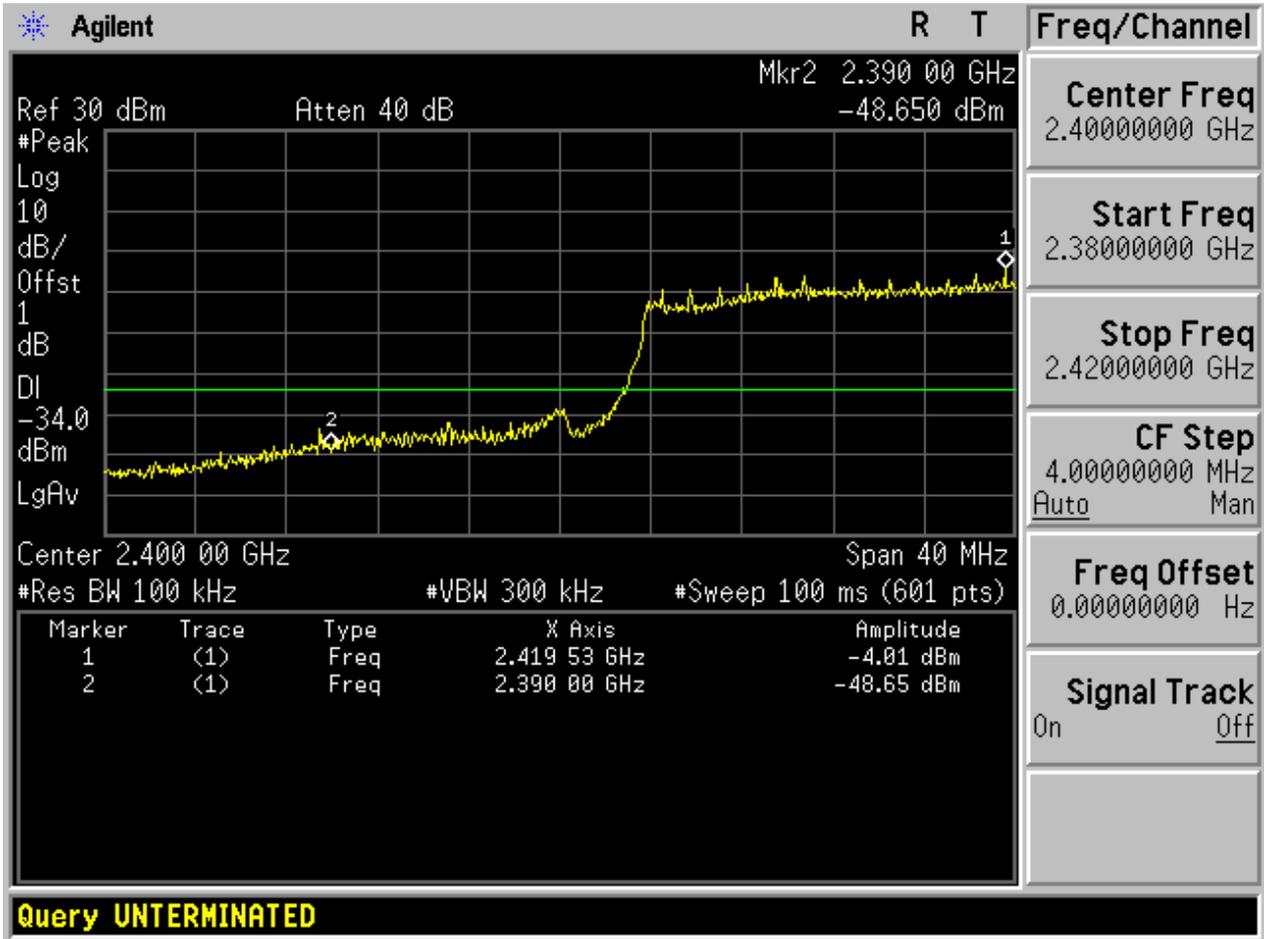


2.16 11N40\_H@Ant 2



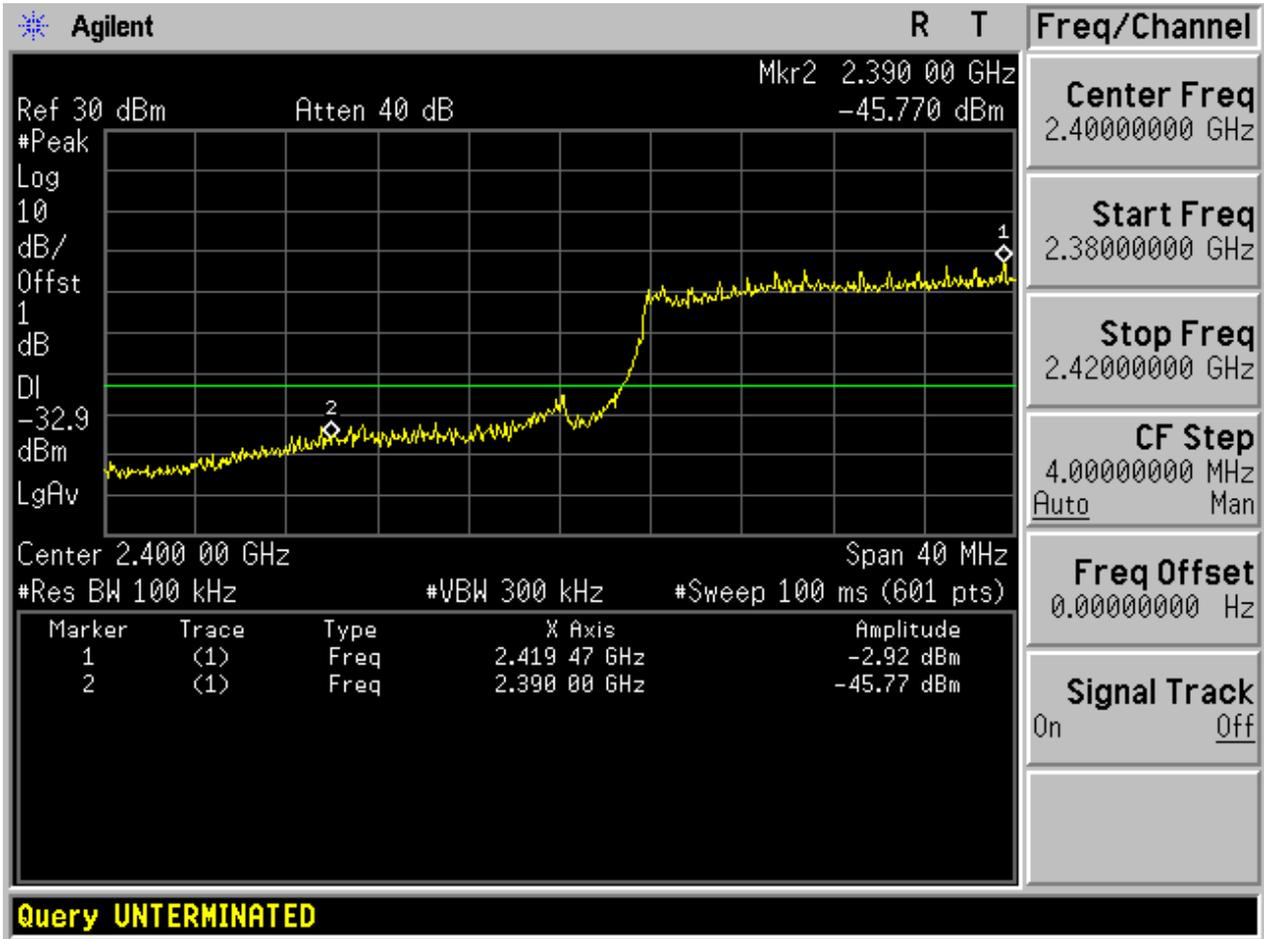


2.21 11N40m\_L@Ant 1



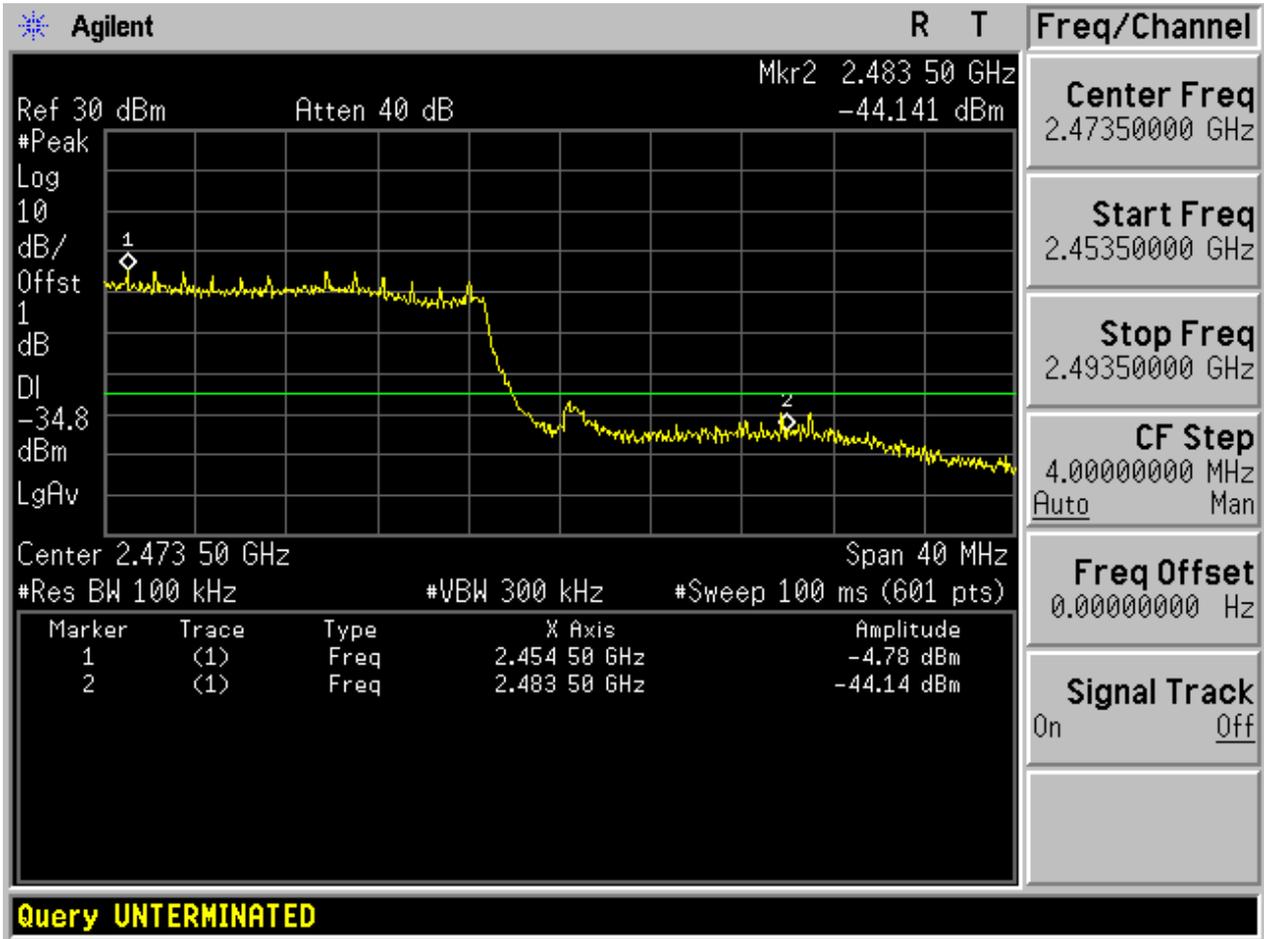


2.22 11N40m\_L@Ant 2



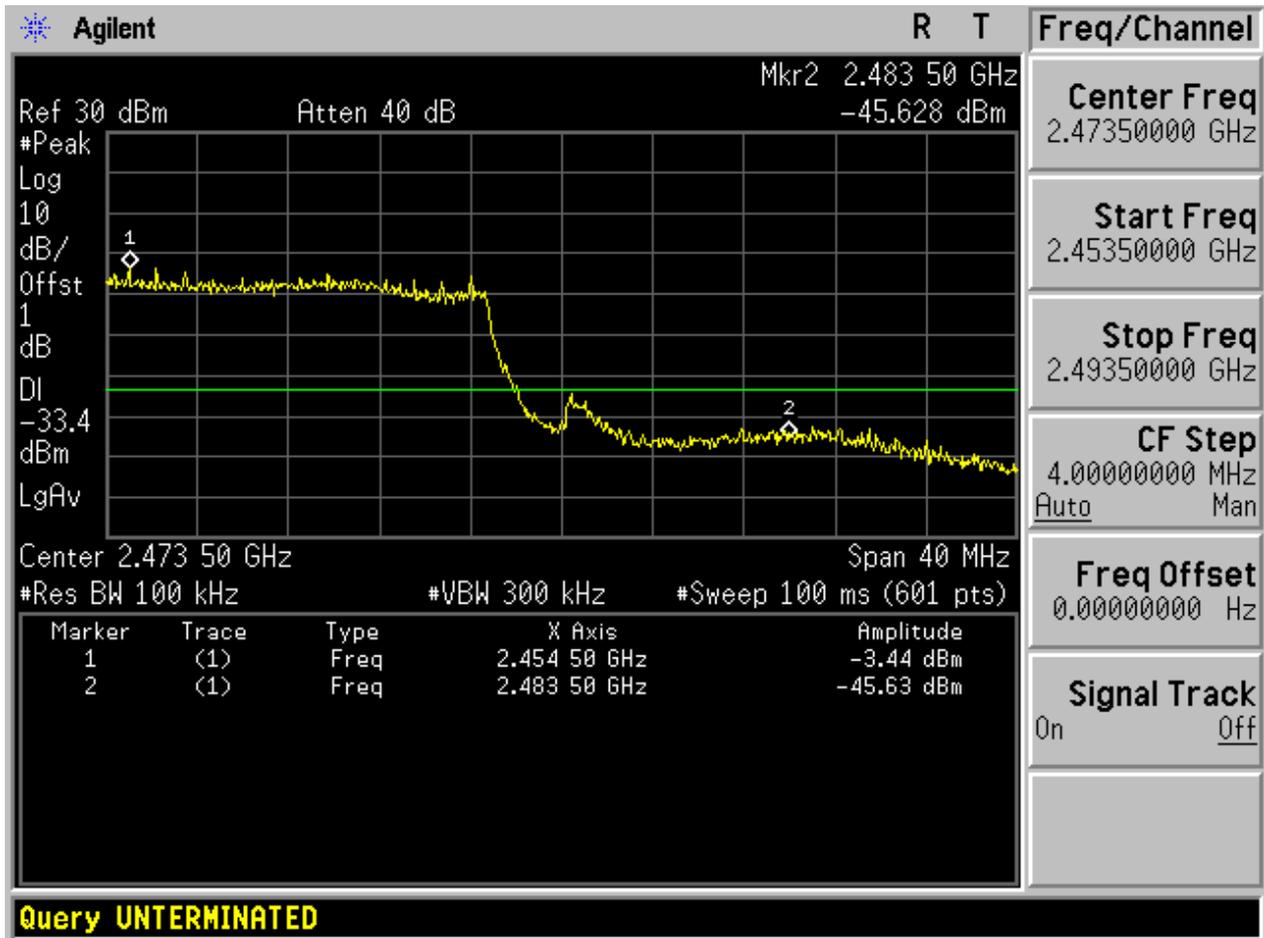


2.23 11N40m\_H@Ant 1





## 2.24 11N40m\_H@Ant 2



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

### Bands

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

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

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

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

### Part I - Test Results

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



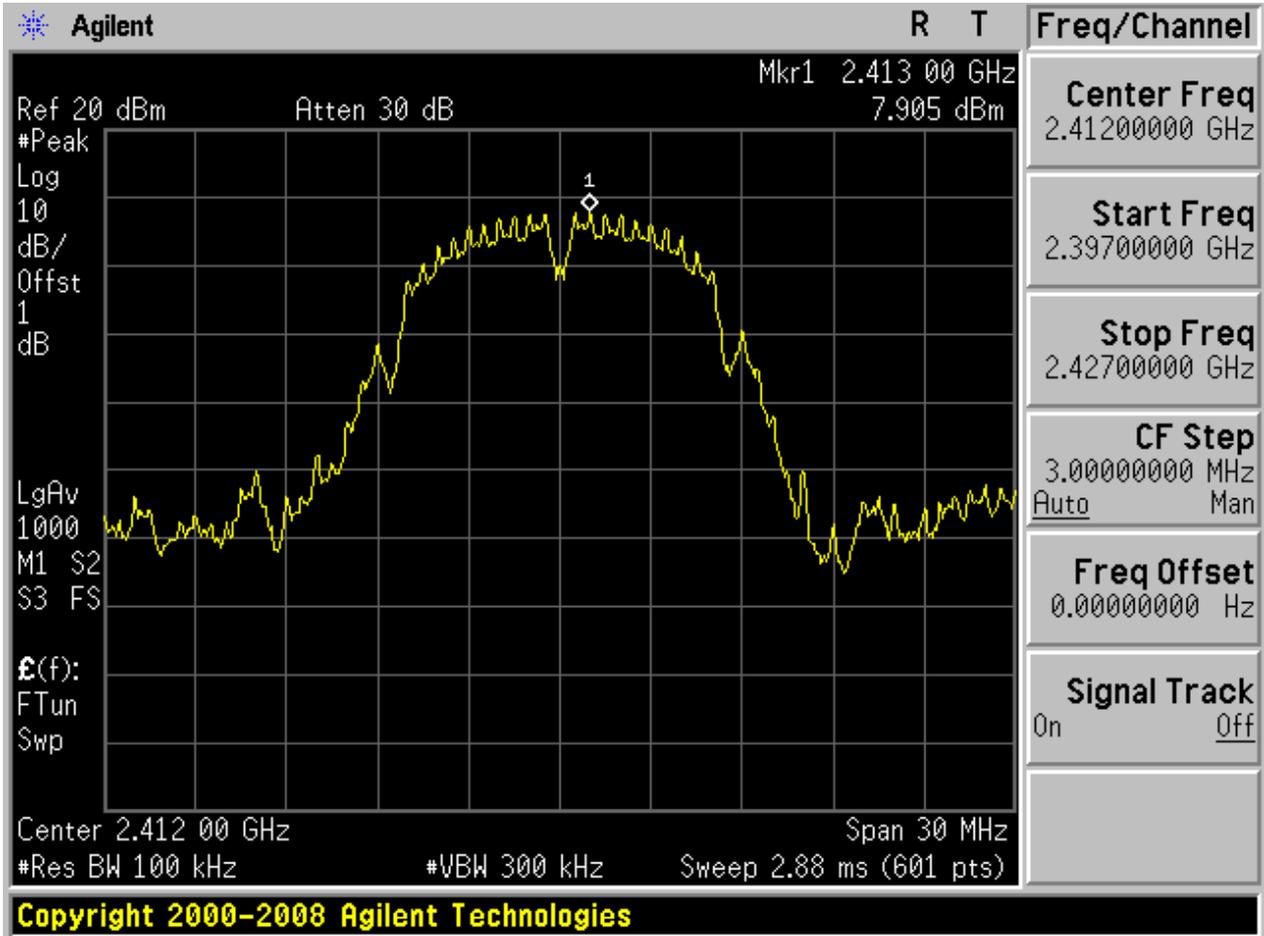
Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	H	2462	Ant 2	-1.1	<limit	pass
11N20m	L	2412	Ant 1	-0.7	<limit	pass
11N20m	L	2412	Ant 2	0.31	<limit	pass
11N20m	M	2437	Ant 1	-0.34	<limit	pass
11N20m	M	2437	Ant 2	0.11	<limit	pass
11N20m	H	2462	Ant 1	-1.03	<limit	pass
11N20m	H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



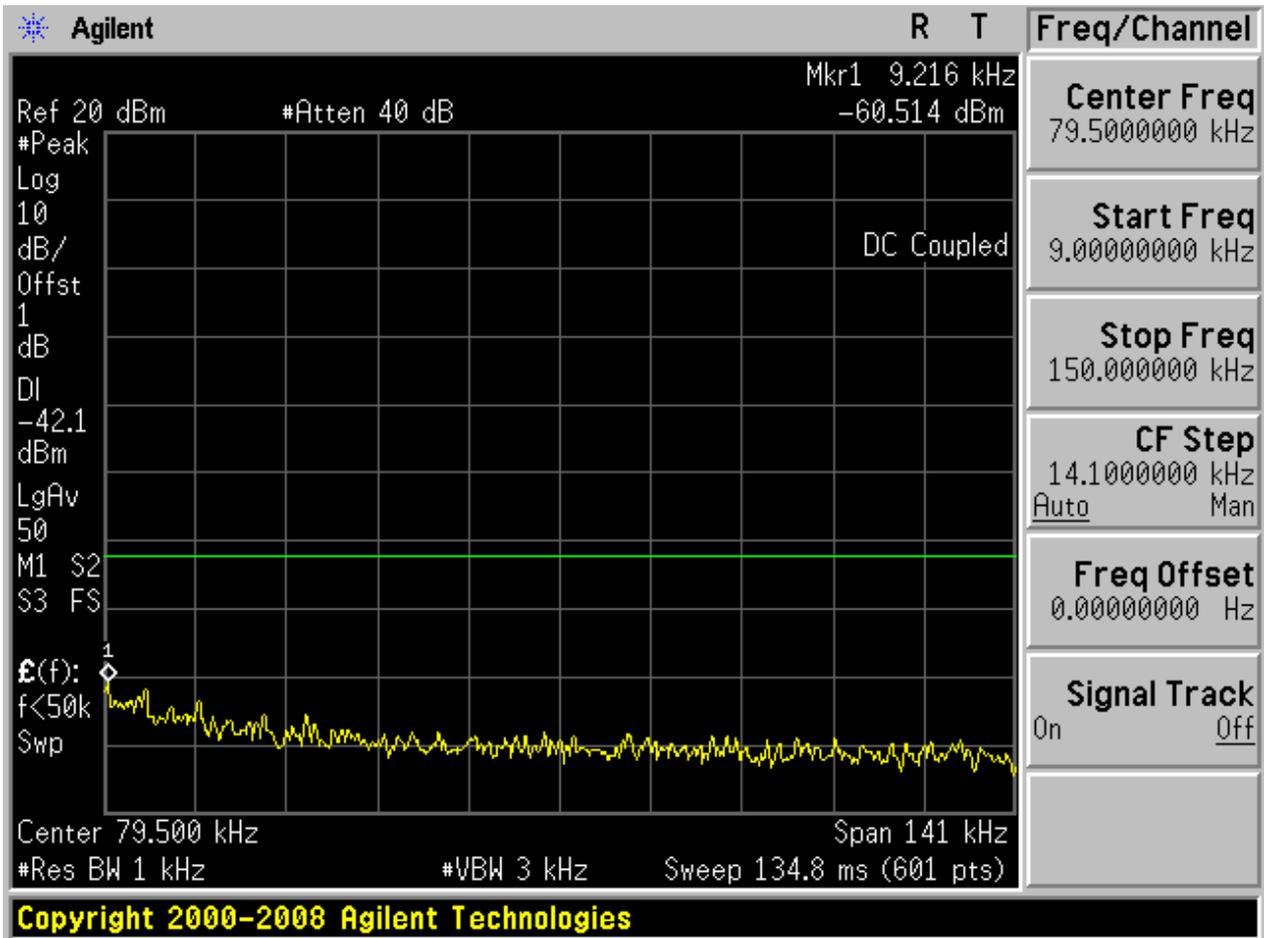
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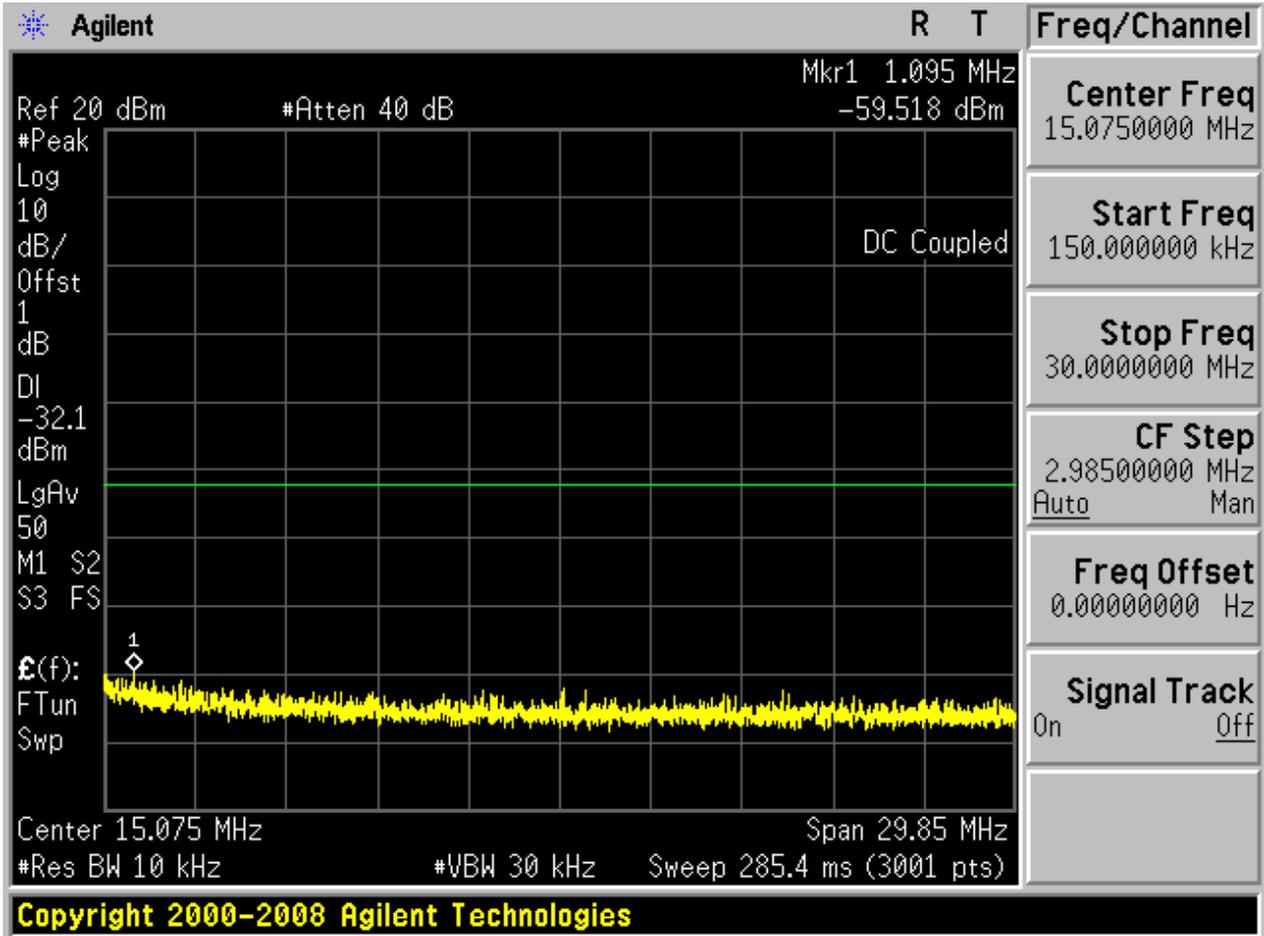
2.1 11B\_L@Ant 1

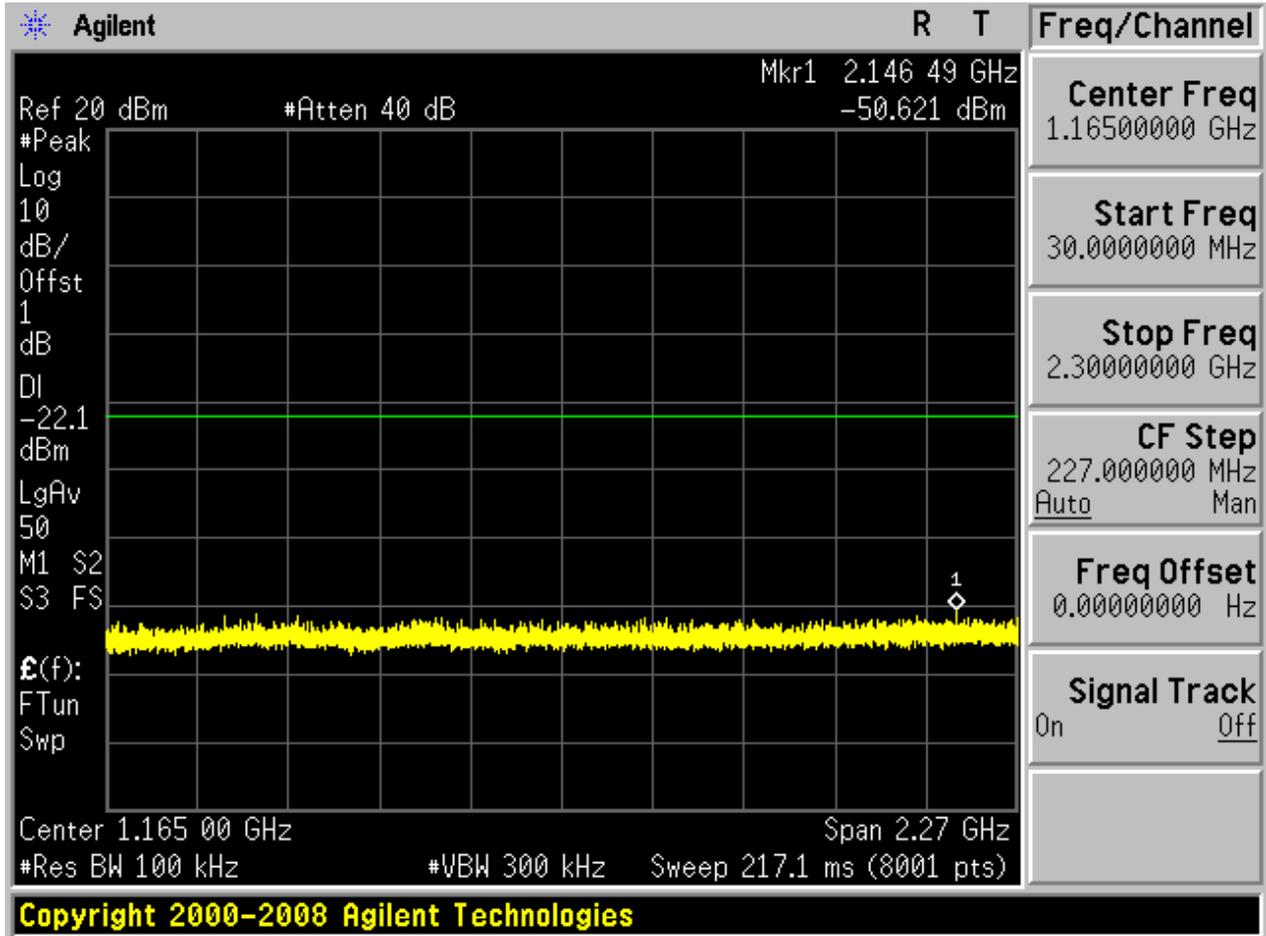
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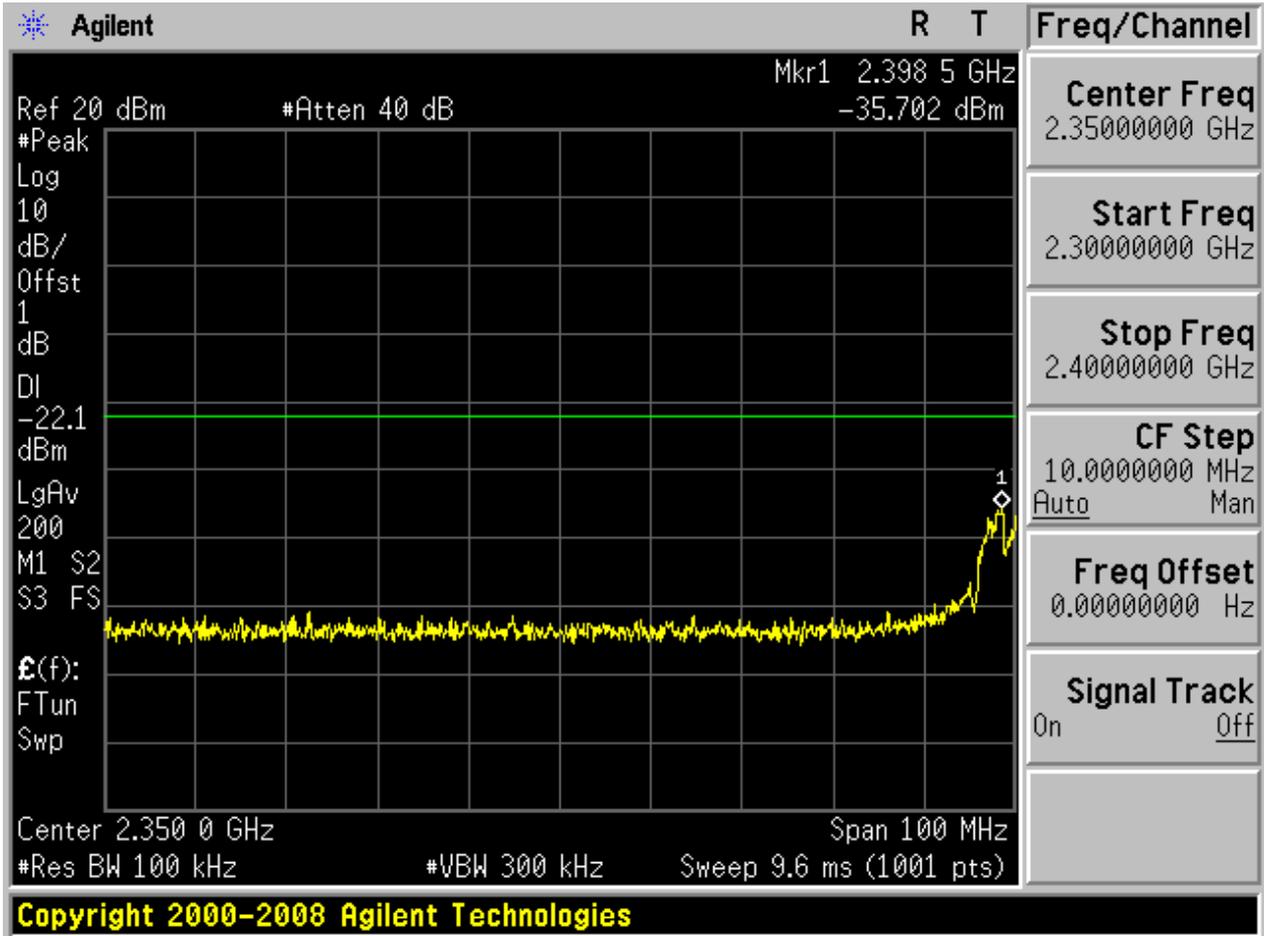


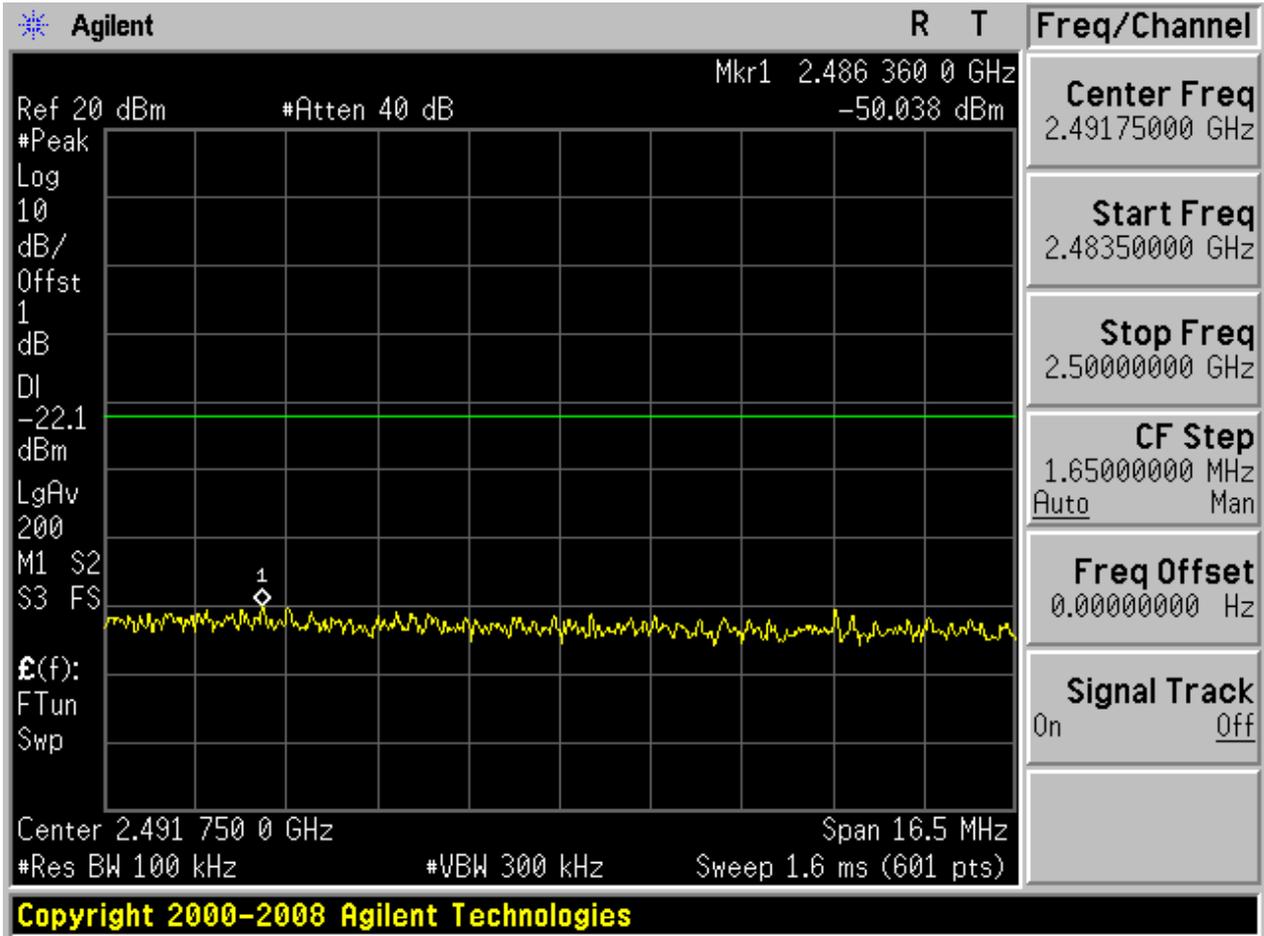
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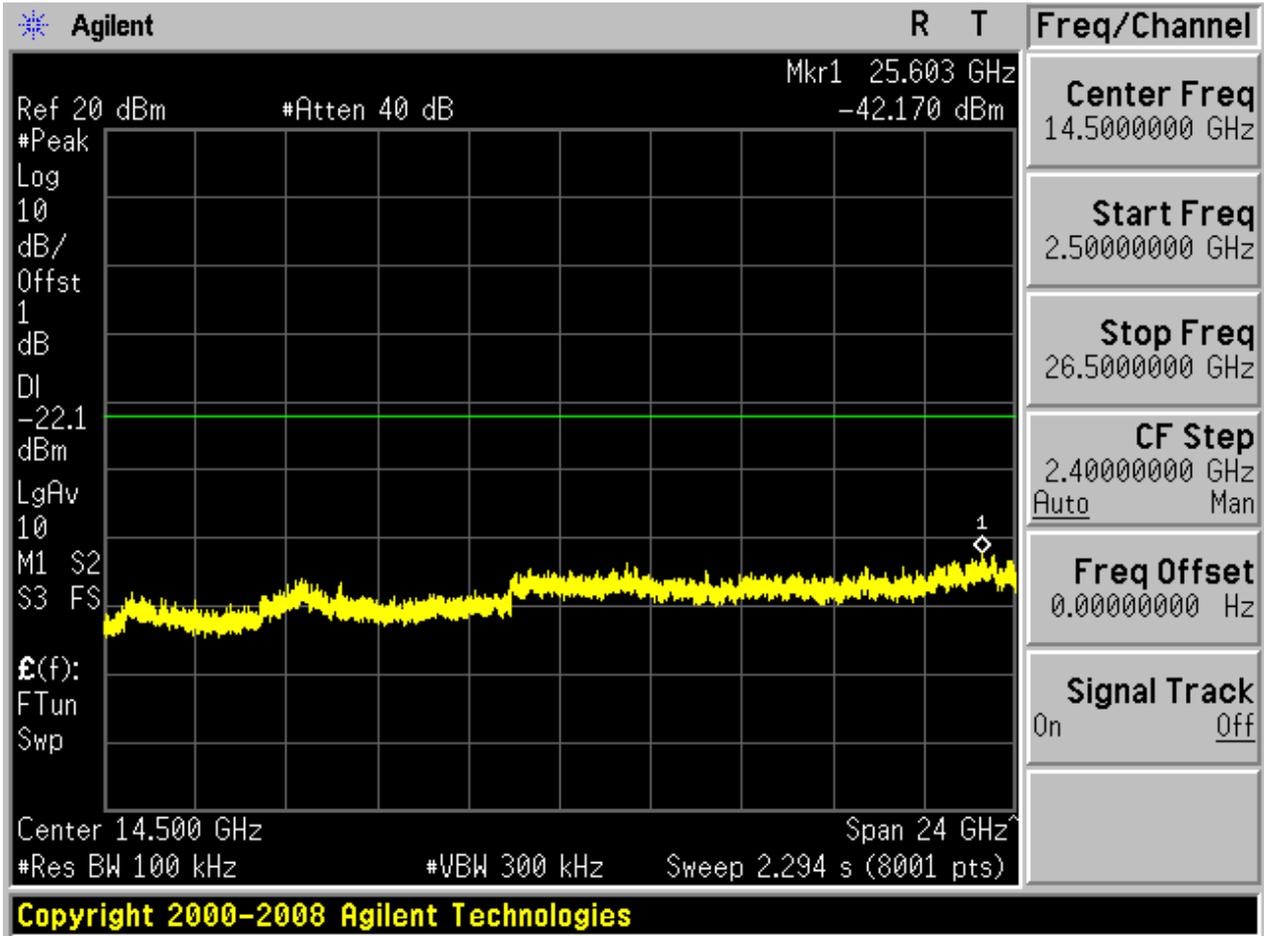








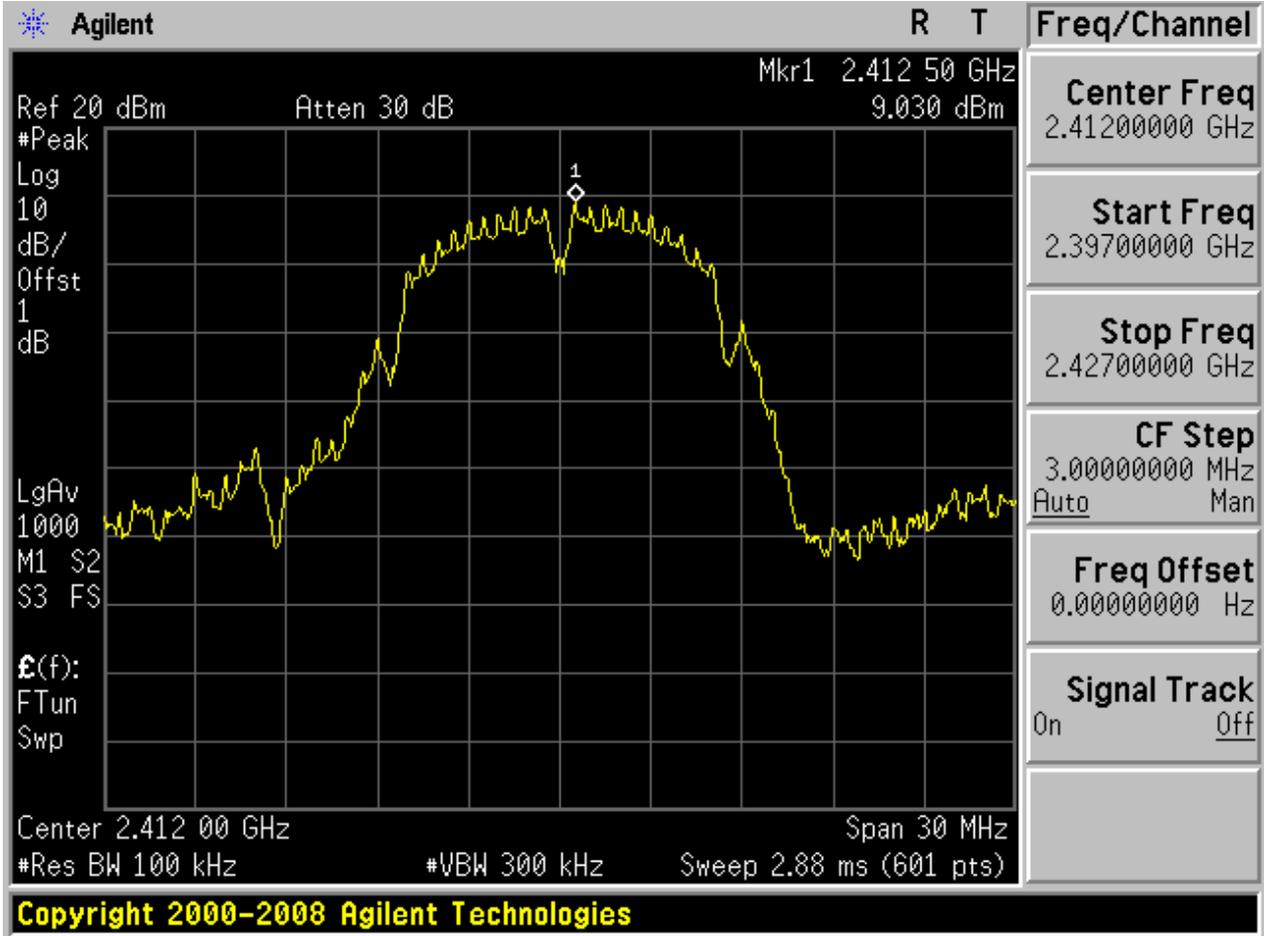






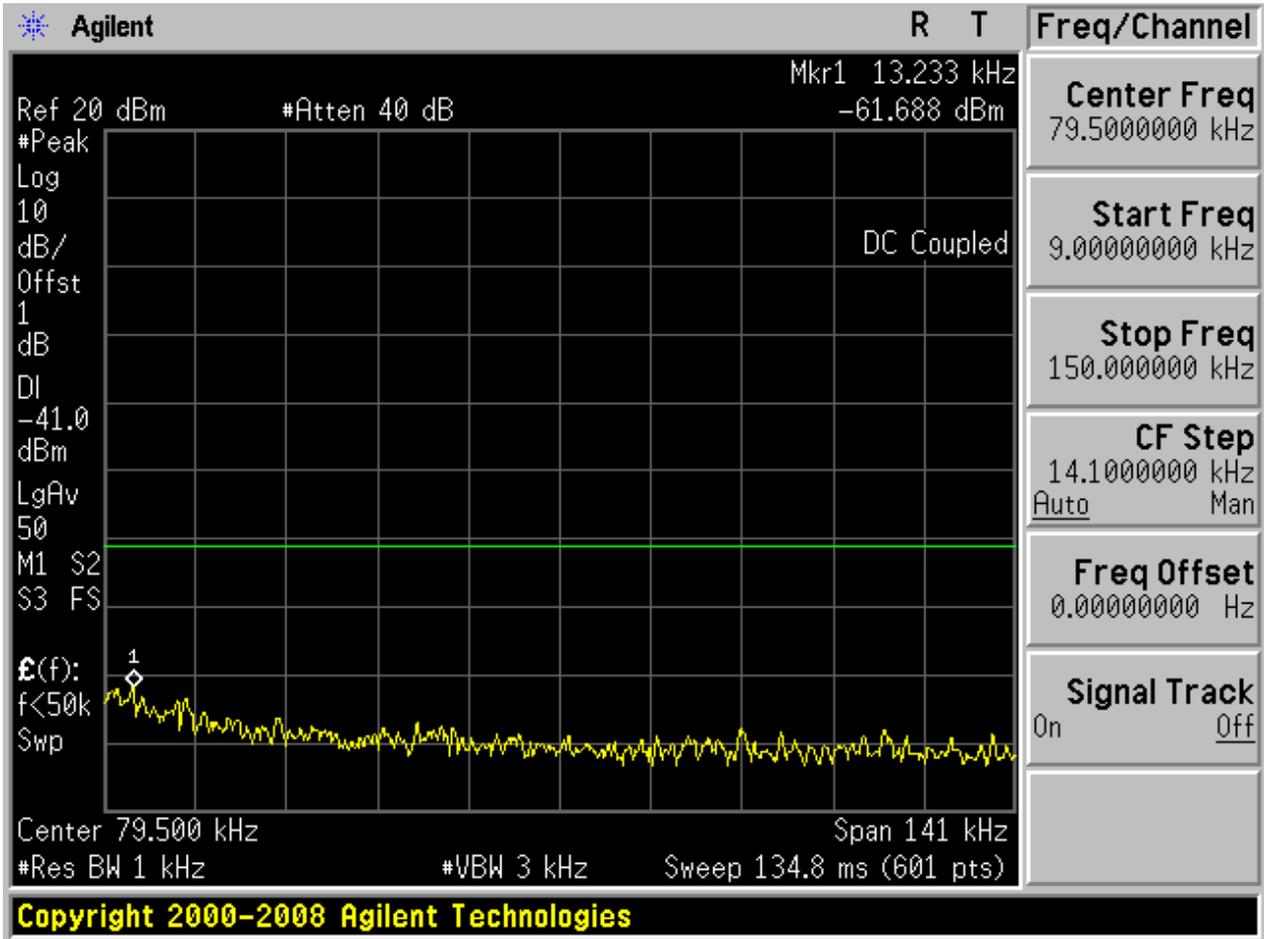
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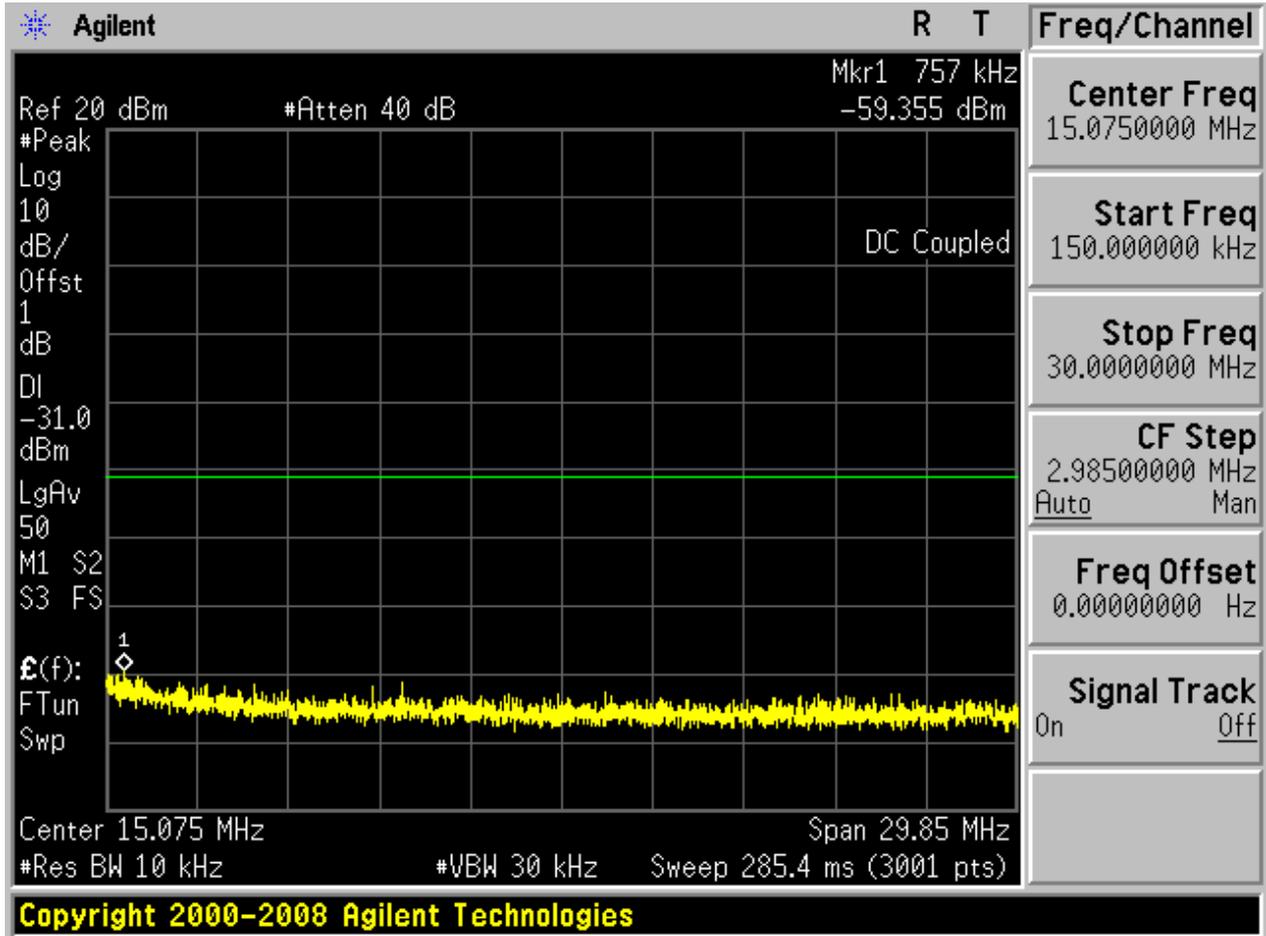
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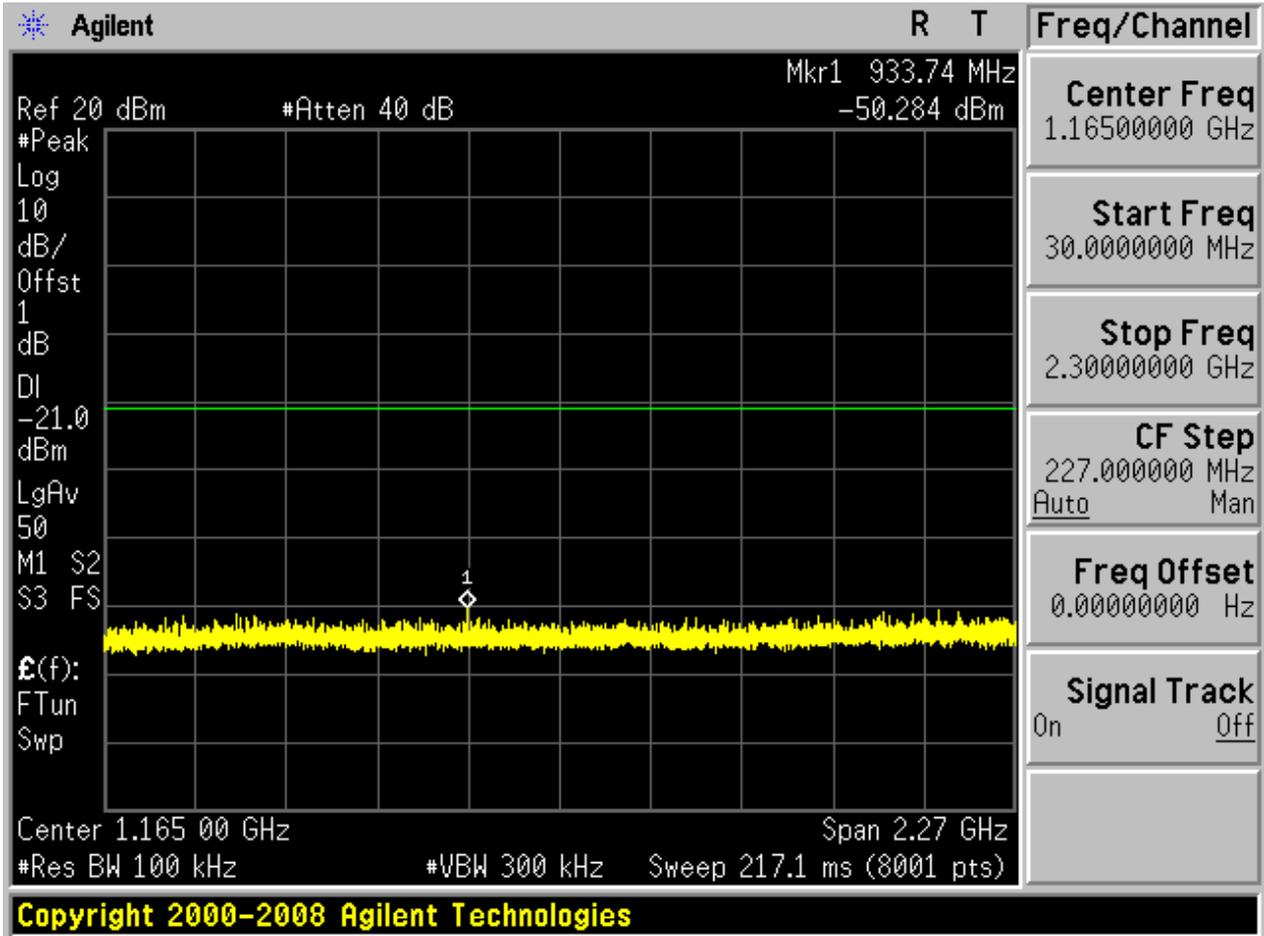


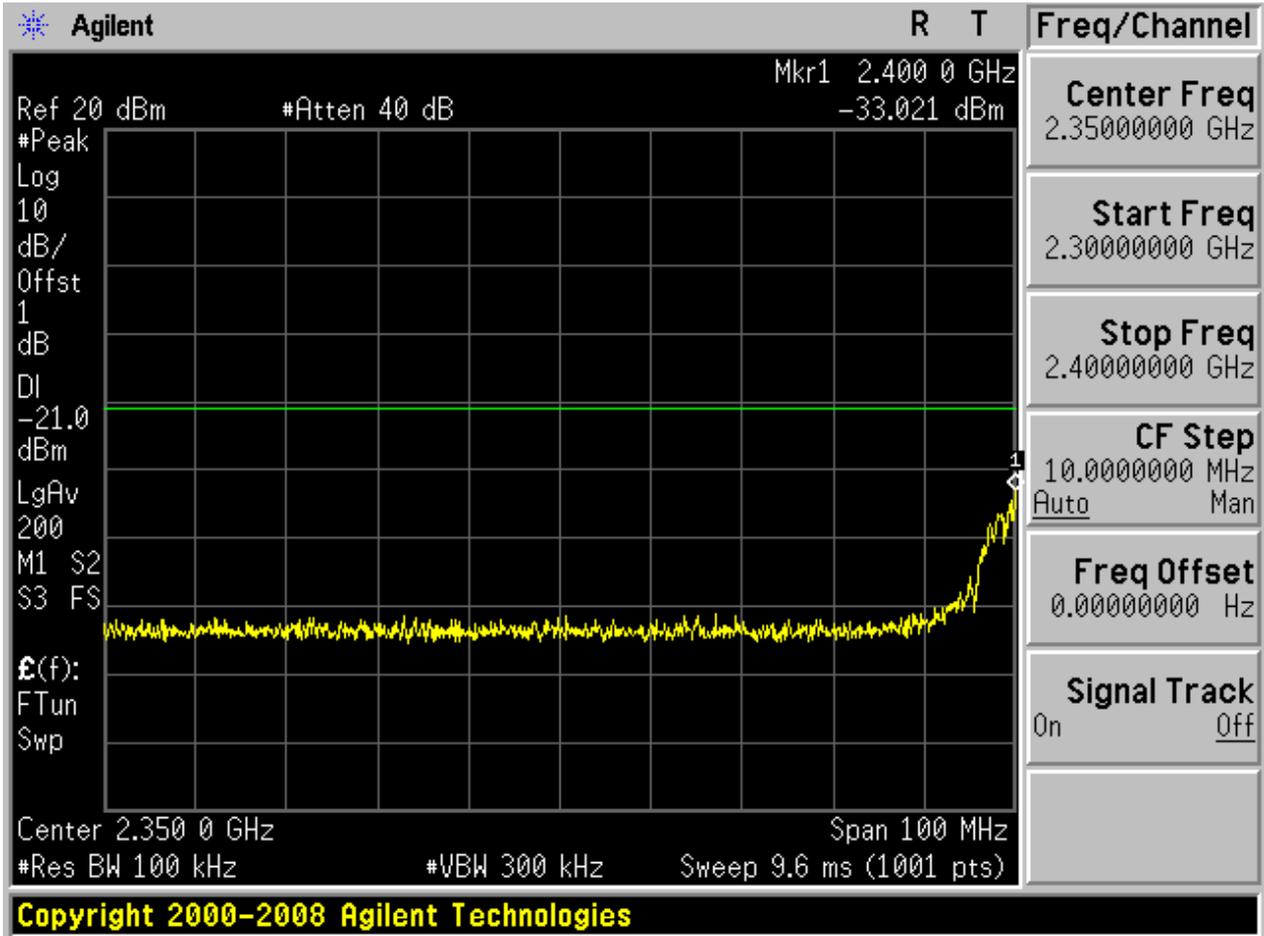


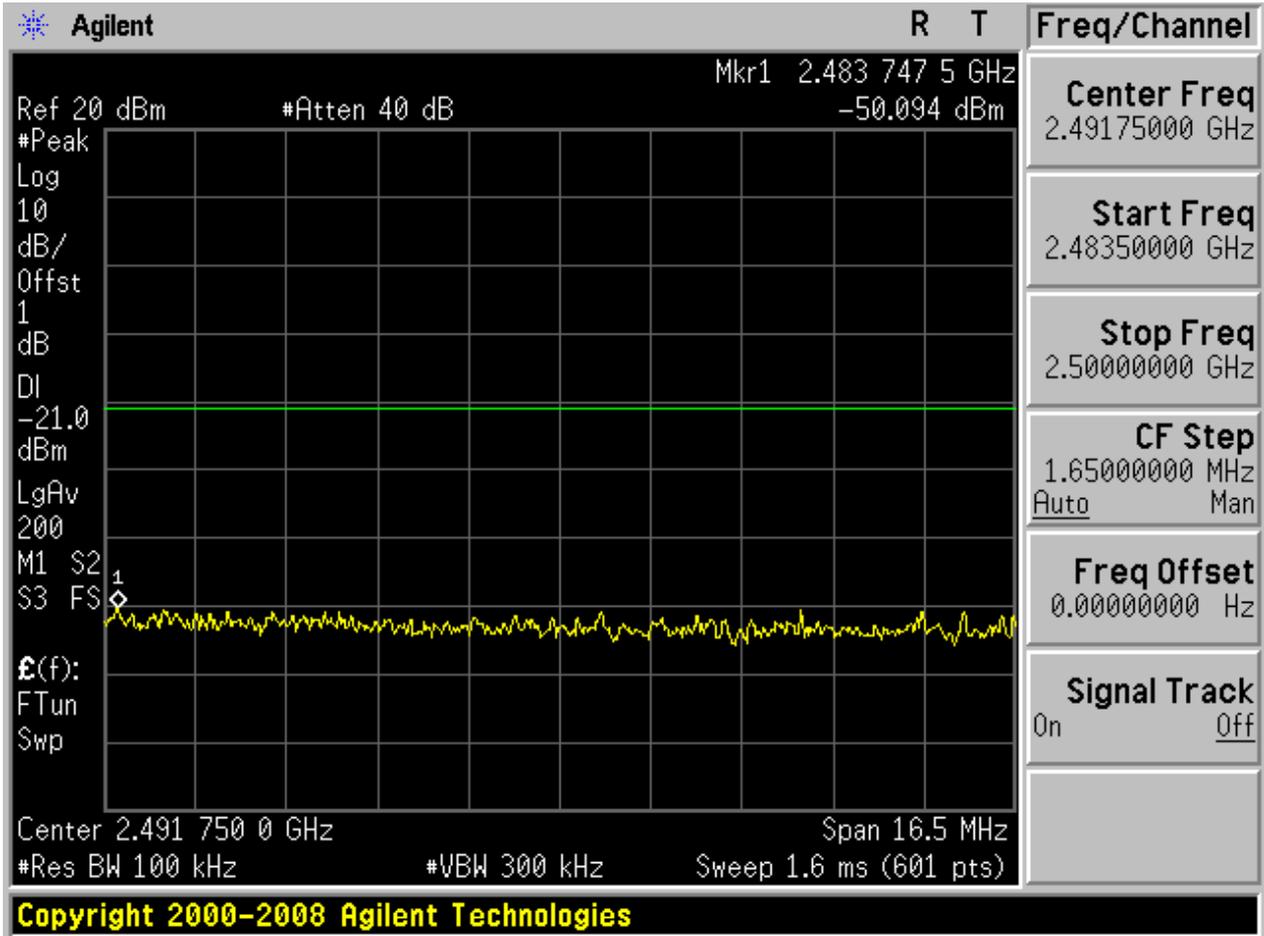
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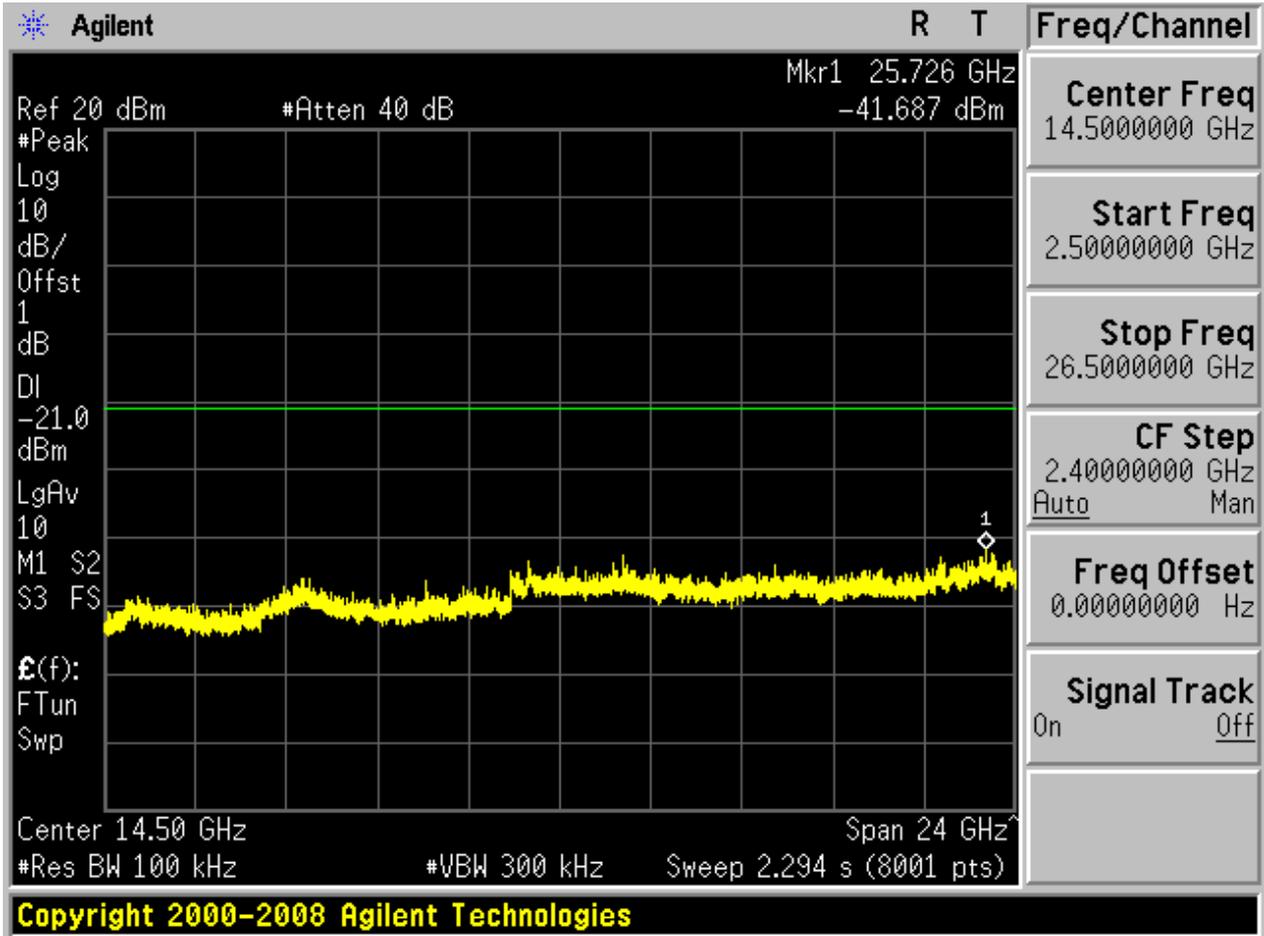








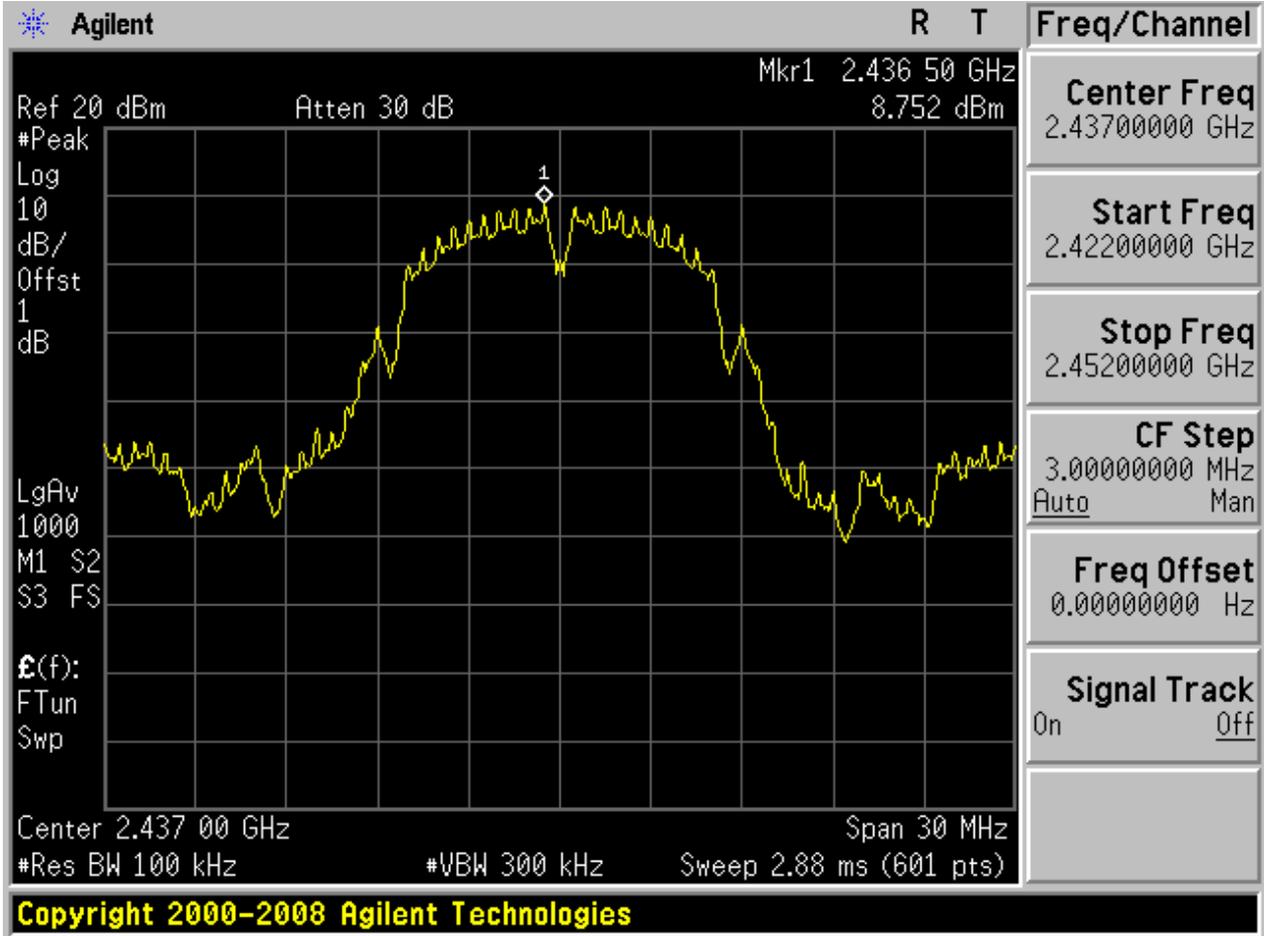






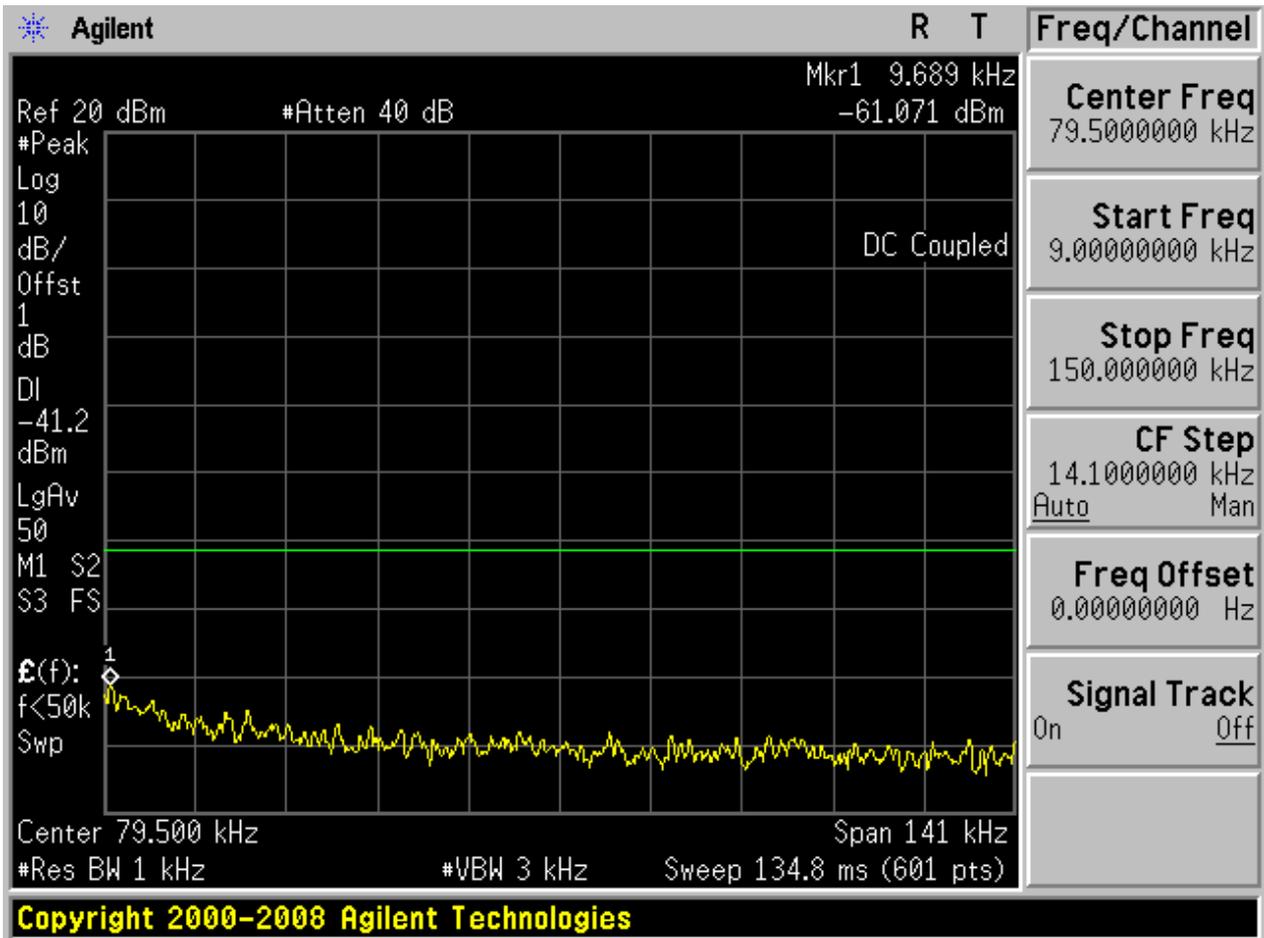
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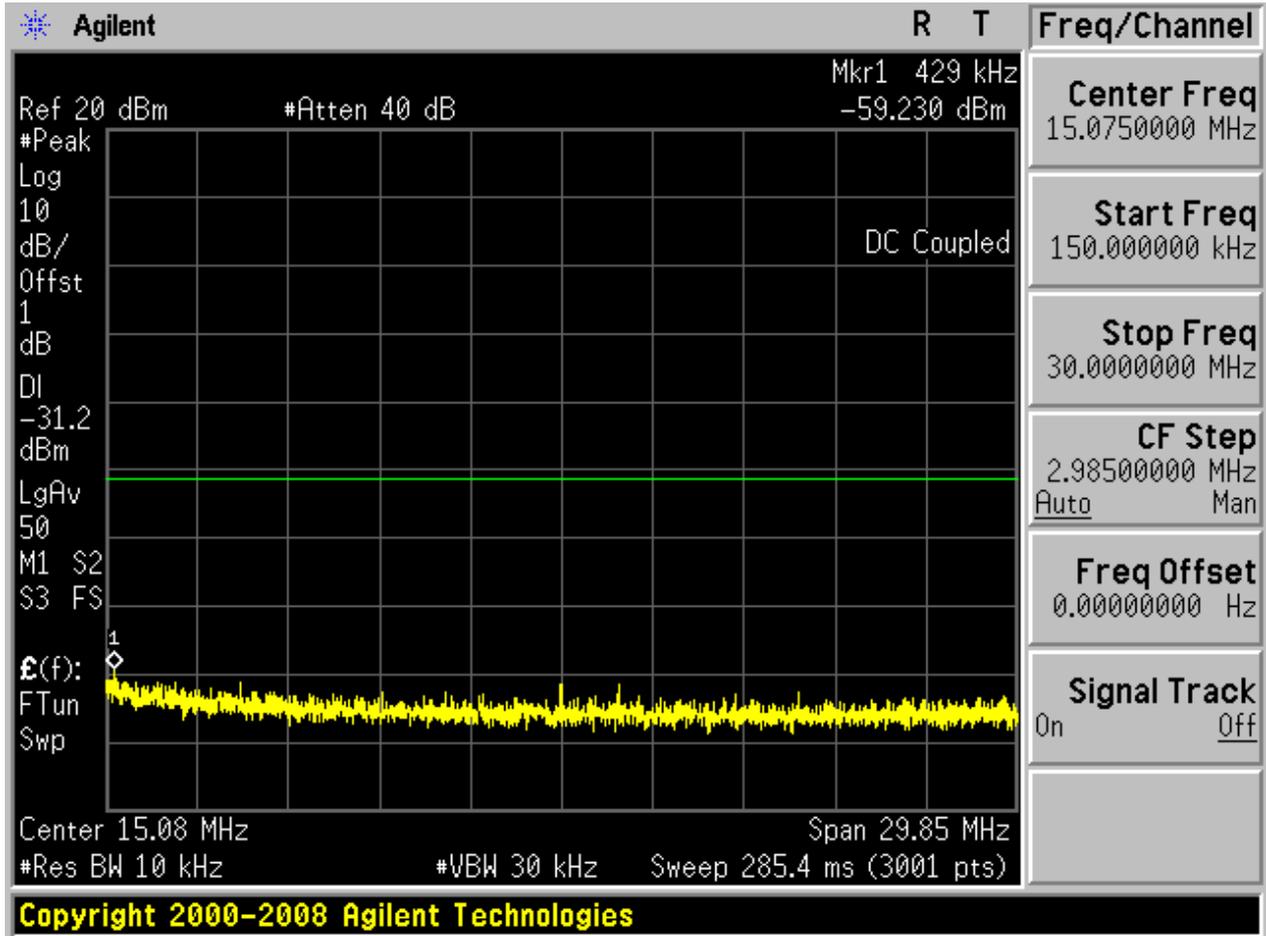
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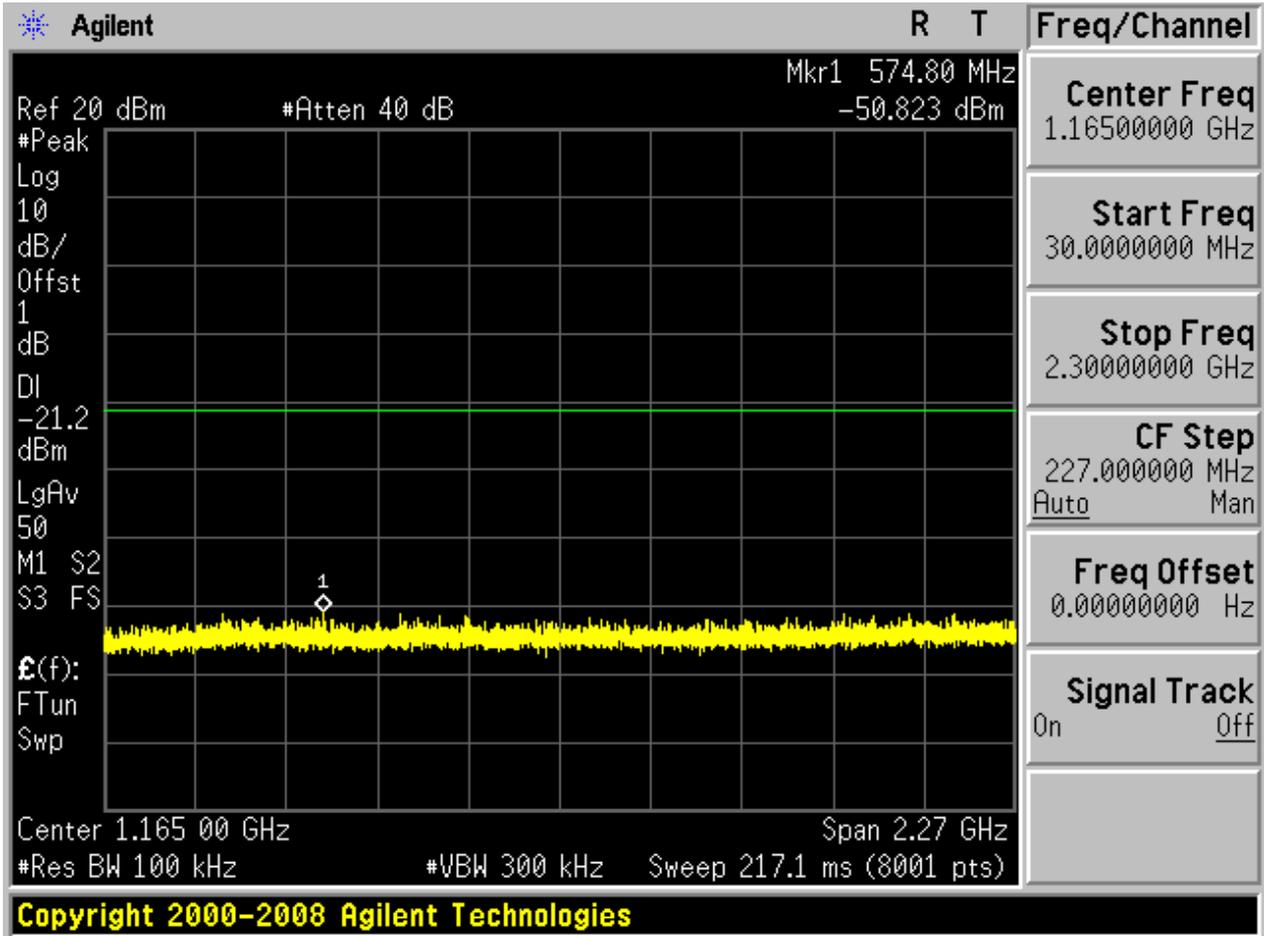


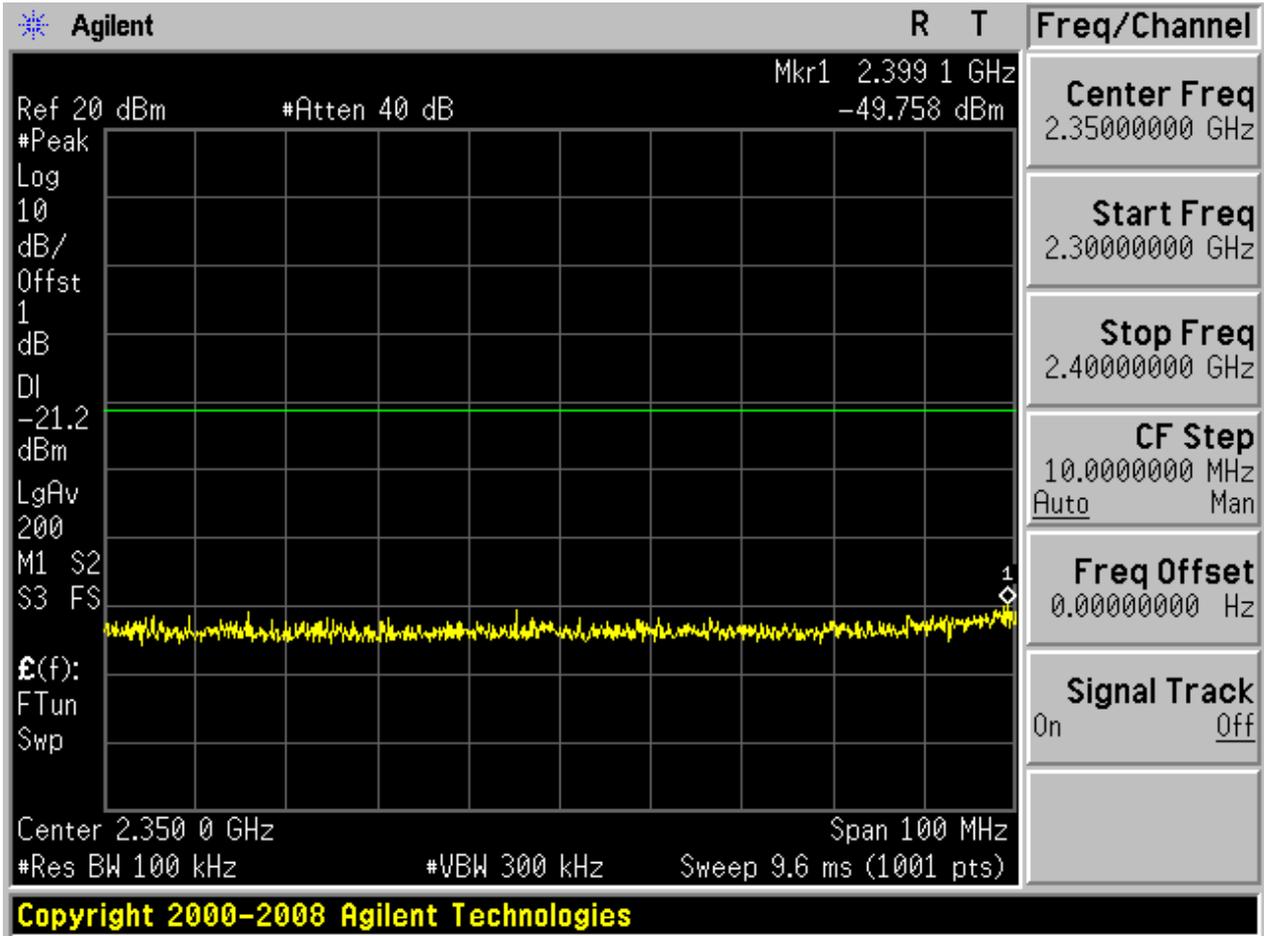


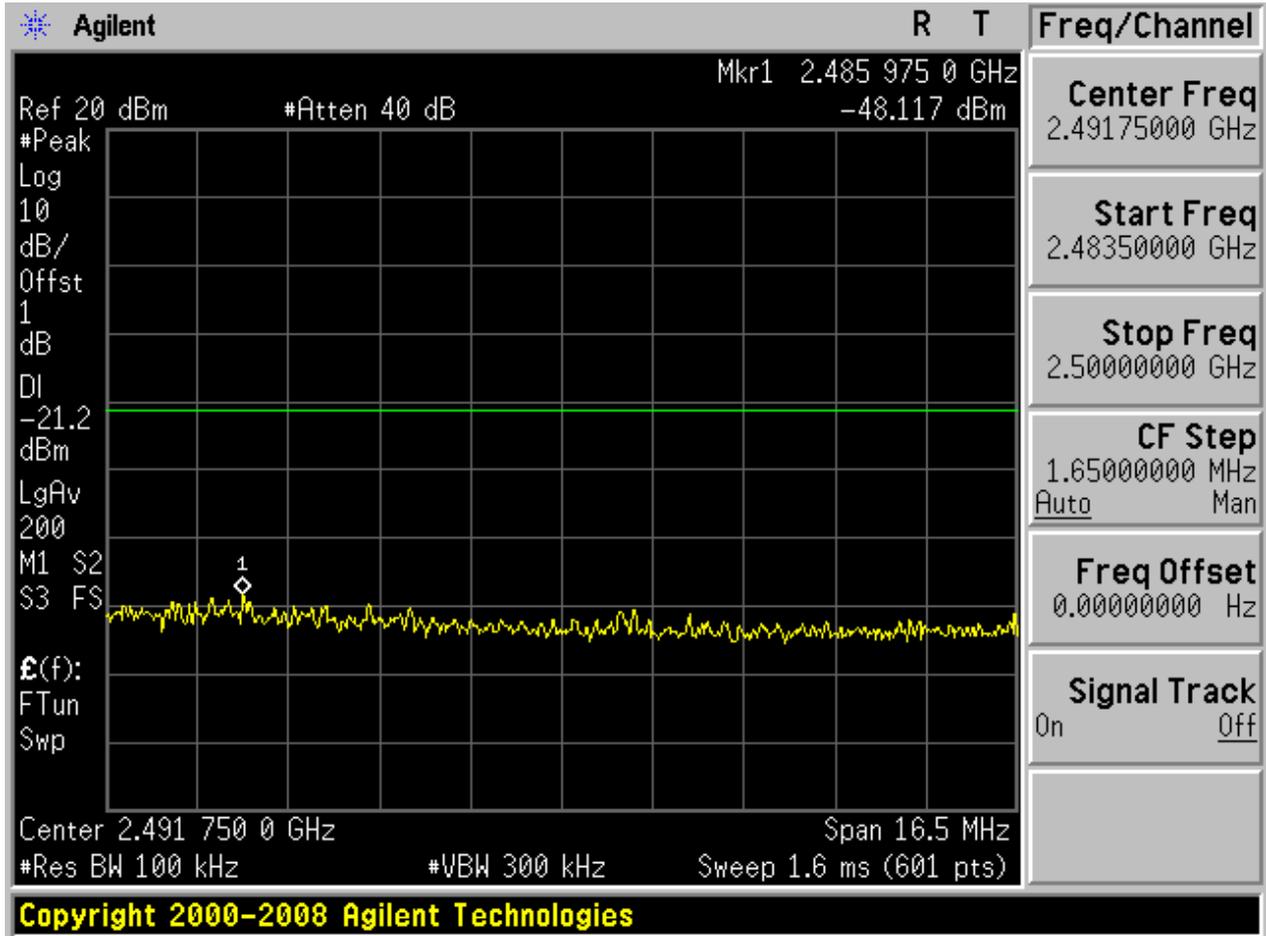
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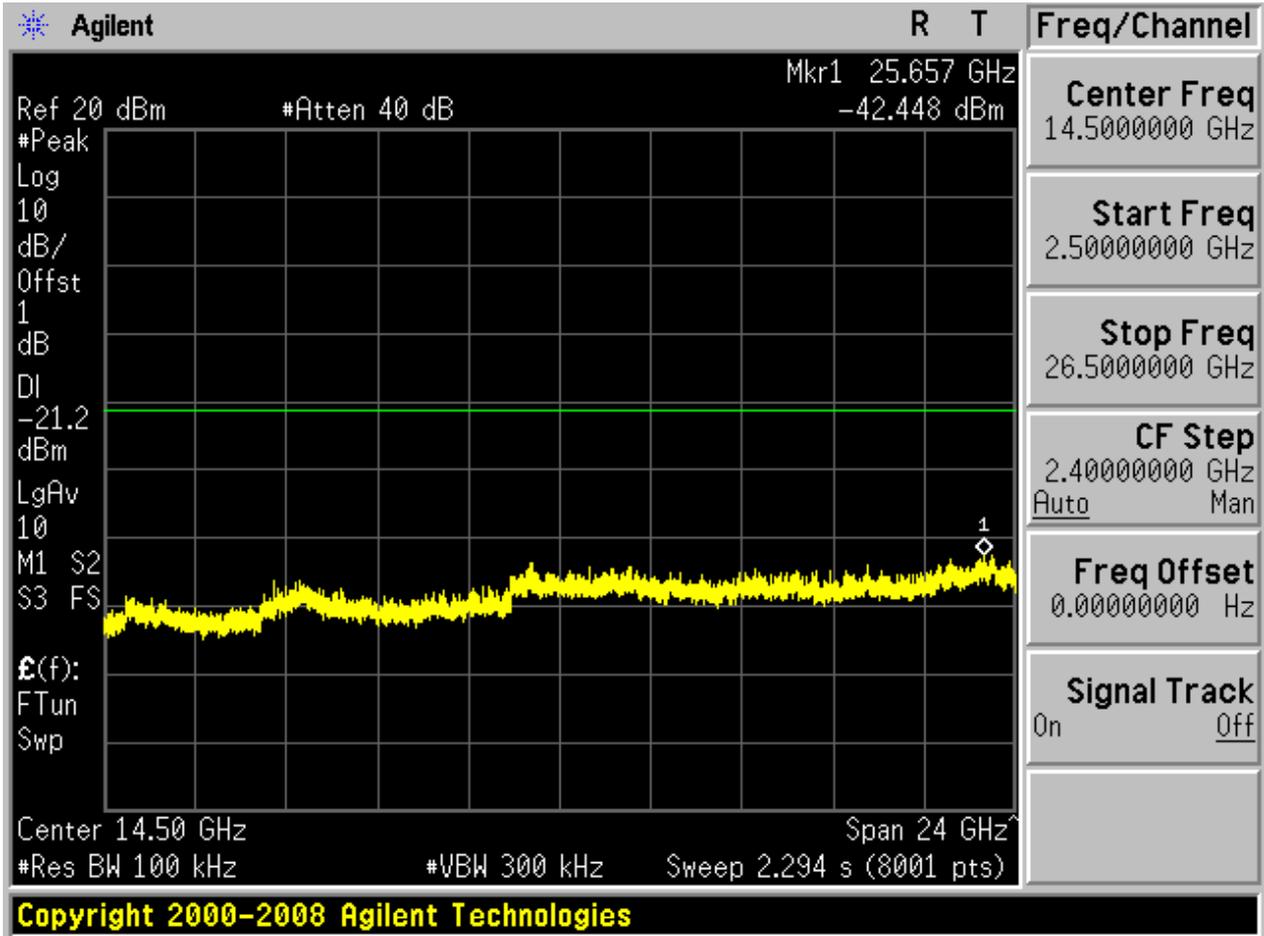








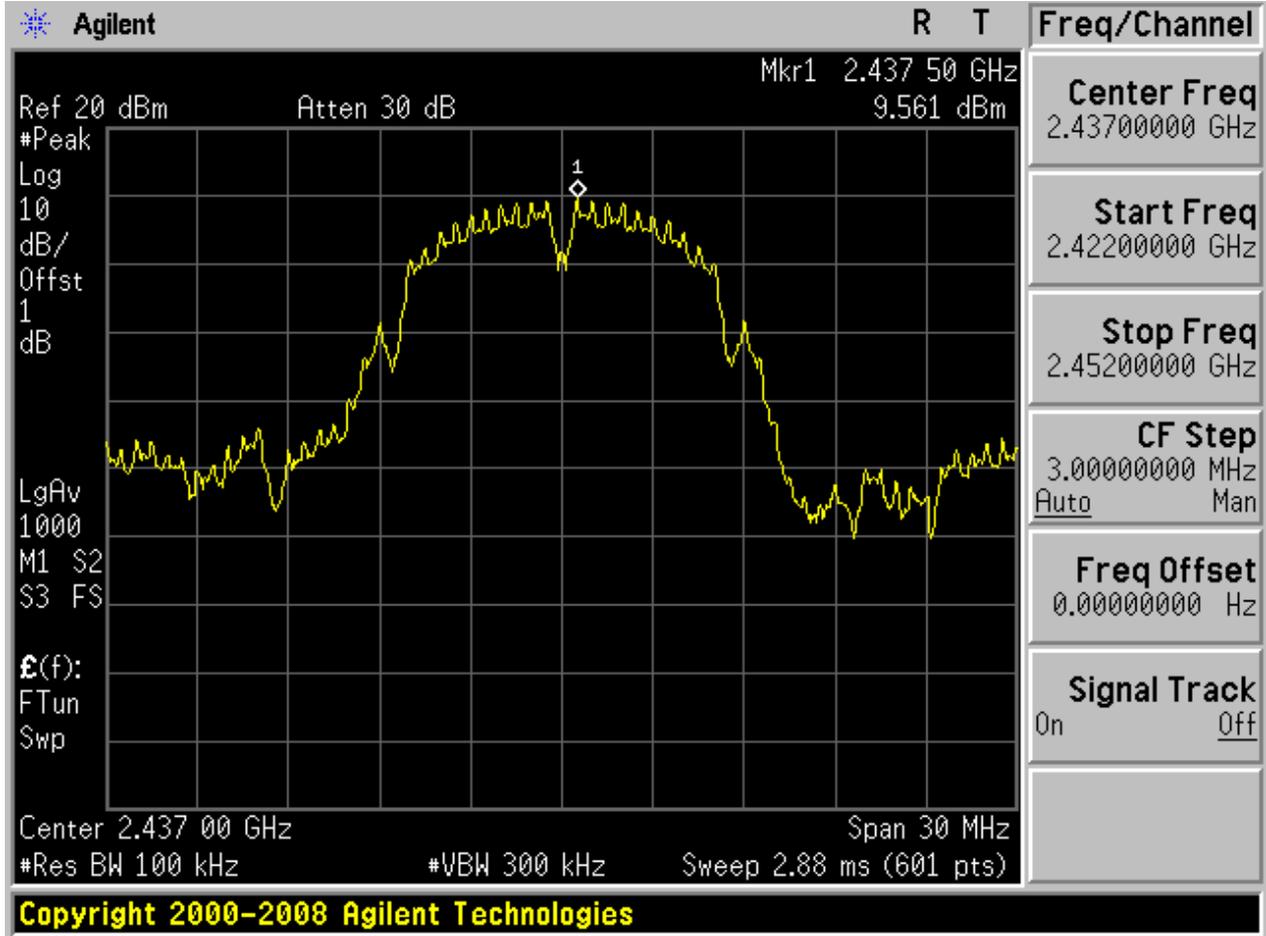






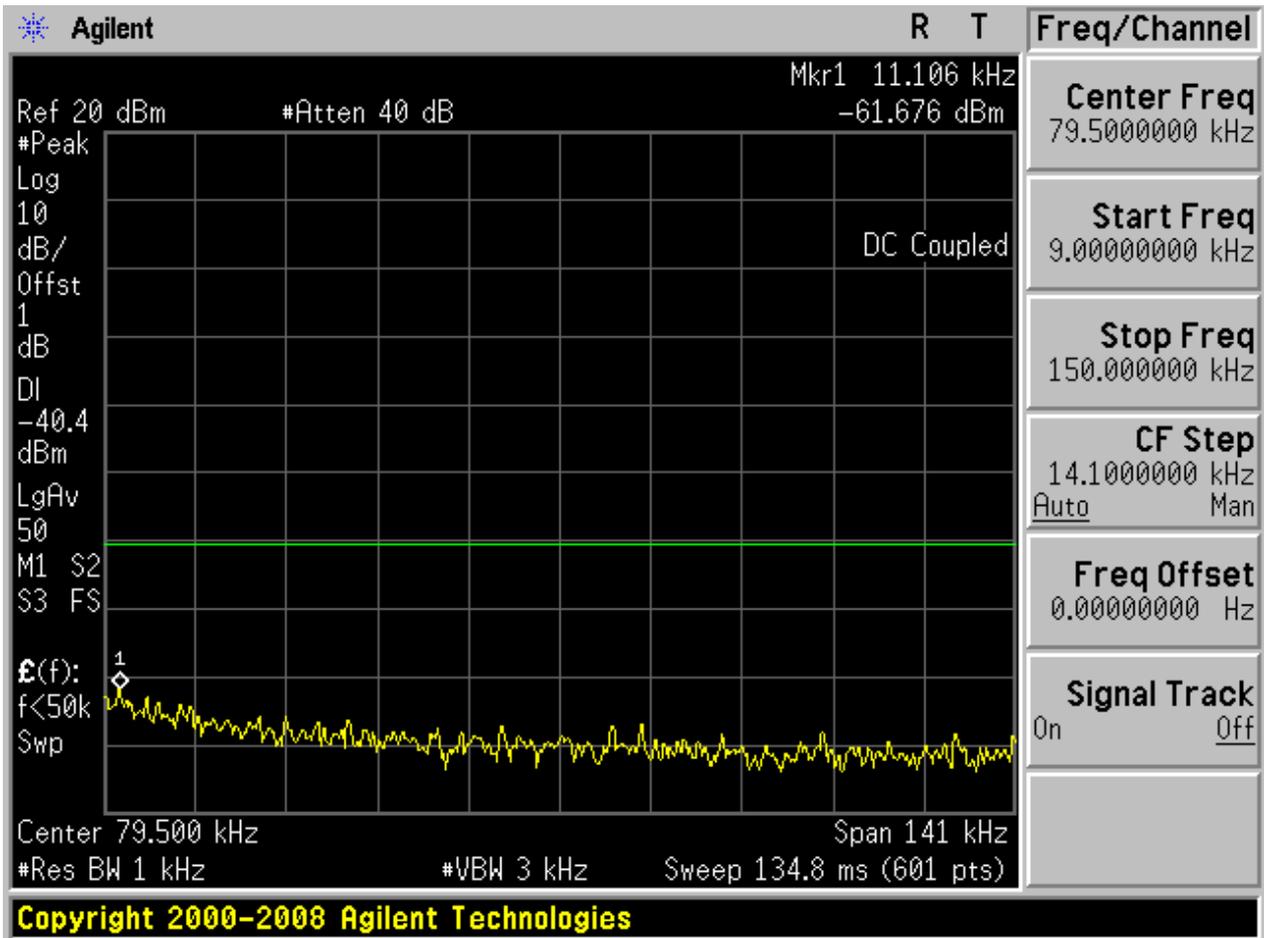
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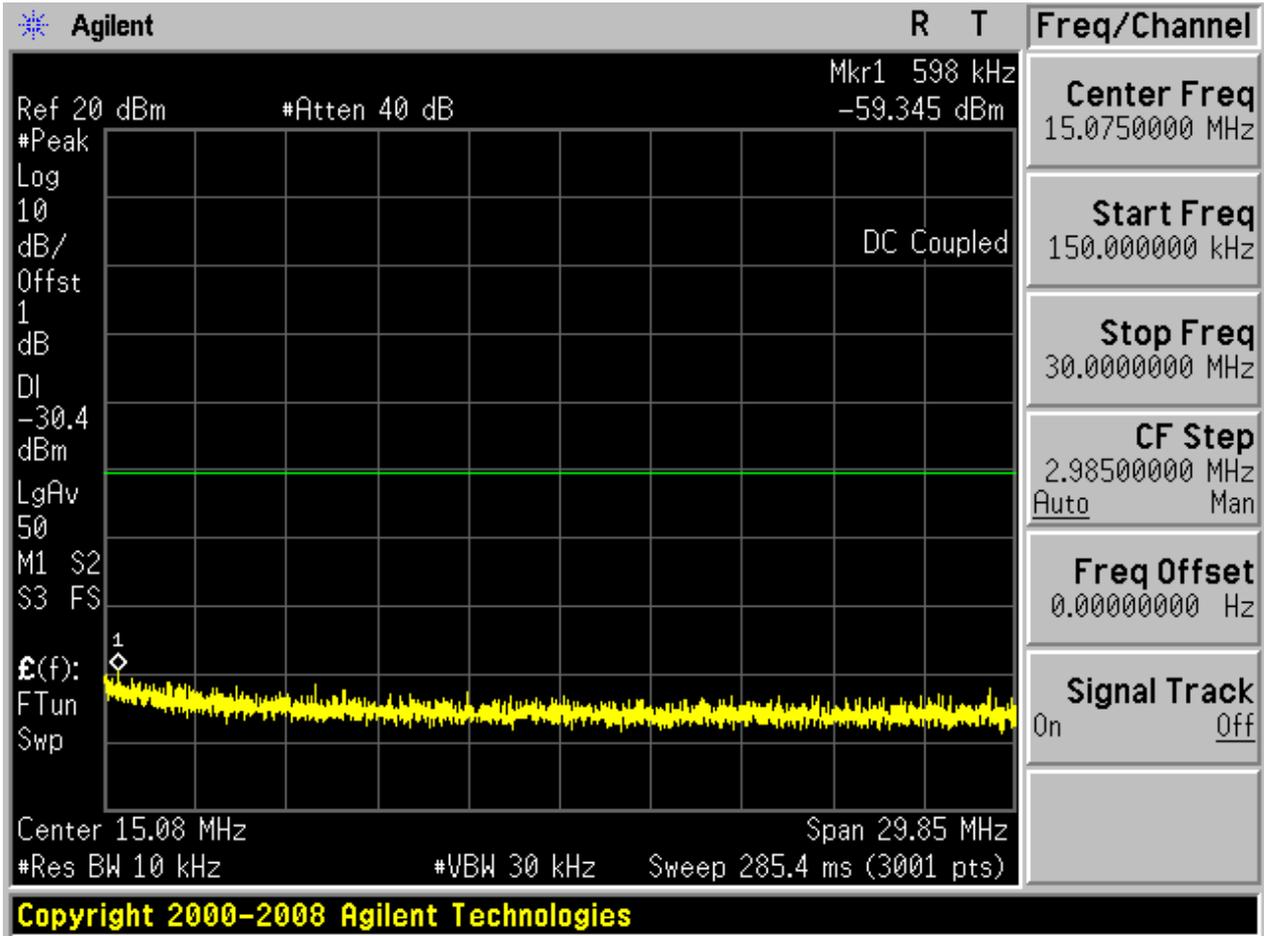
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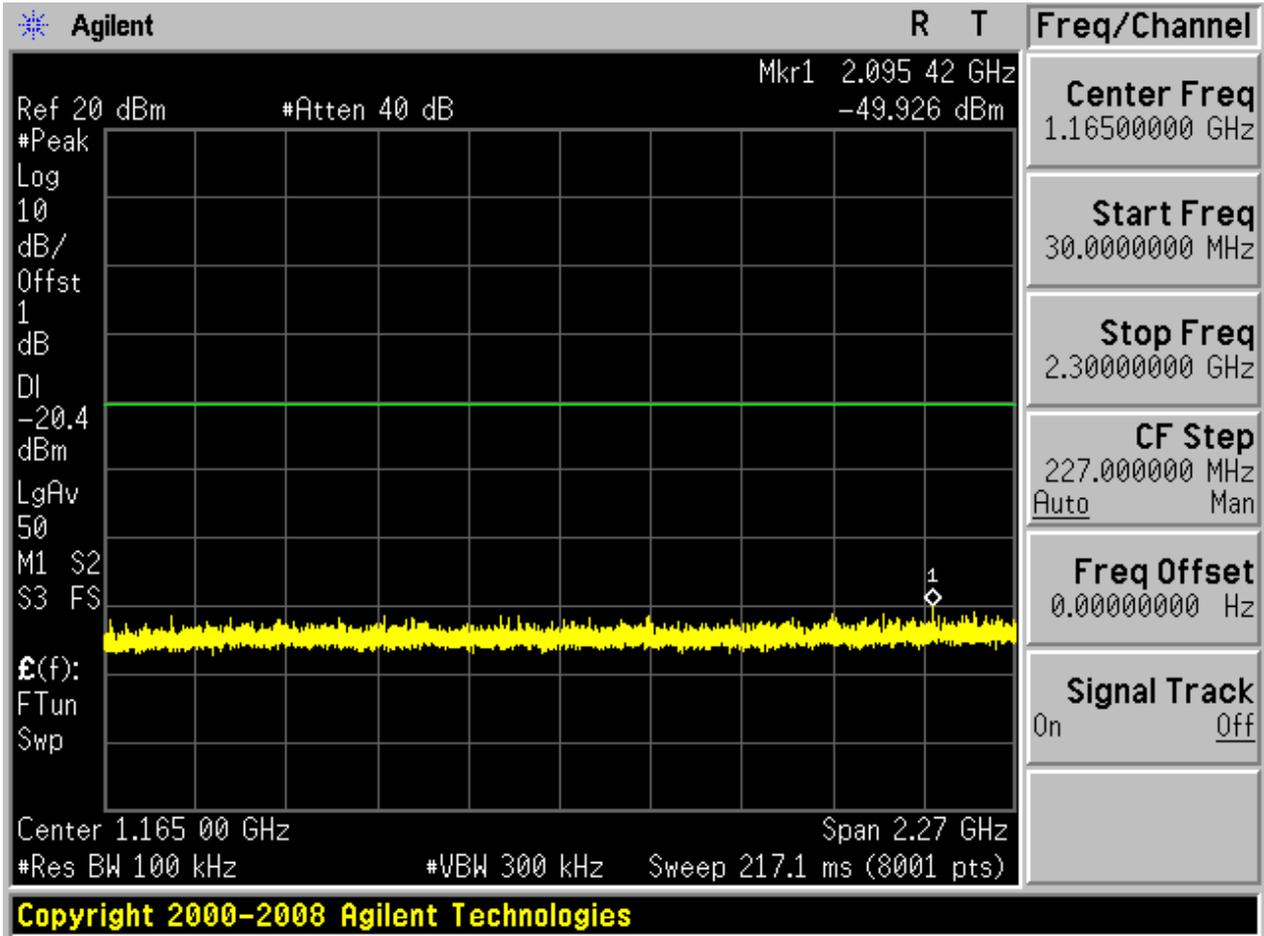


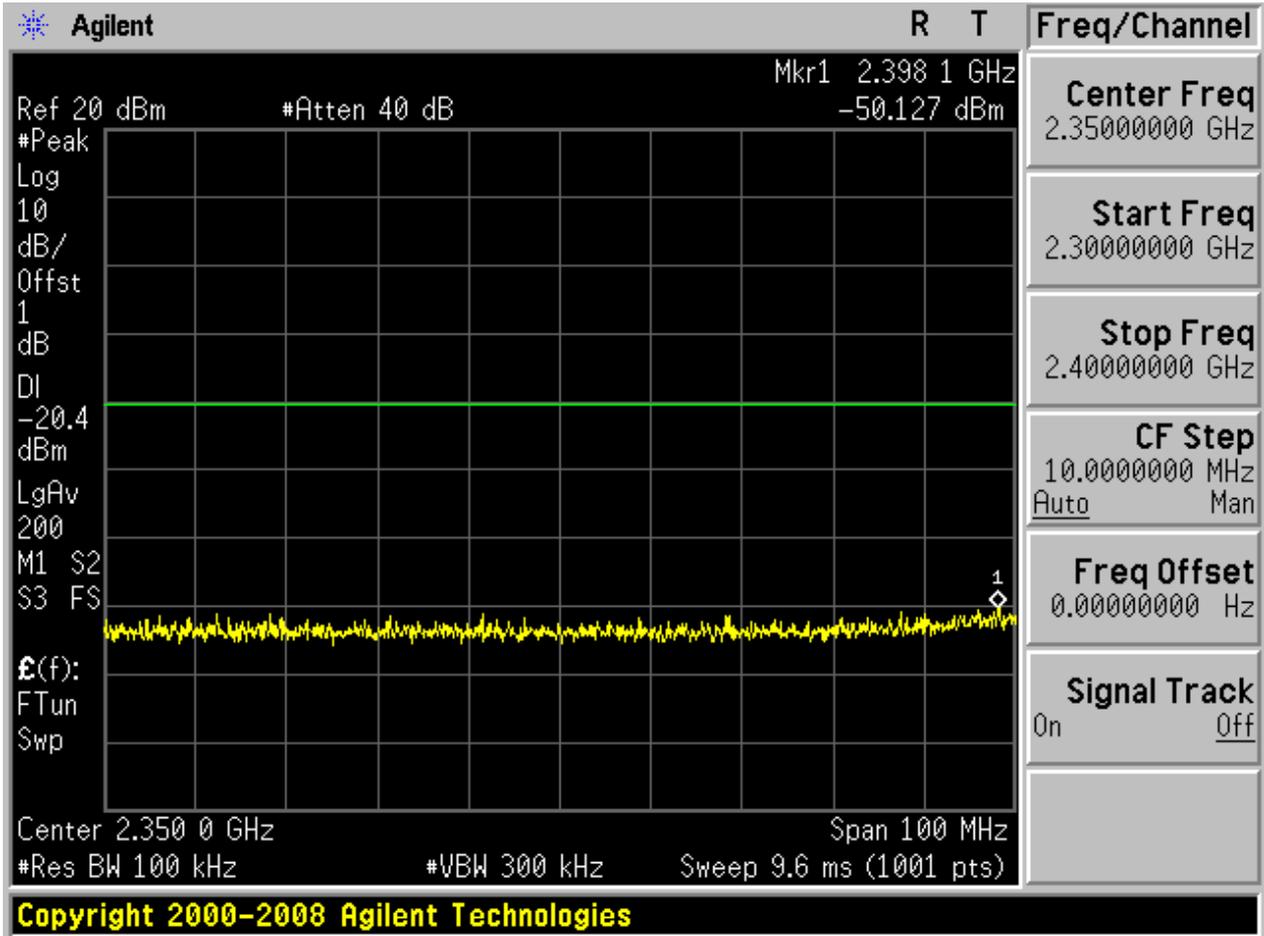


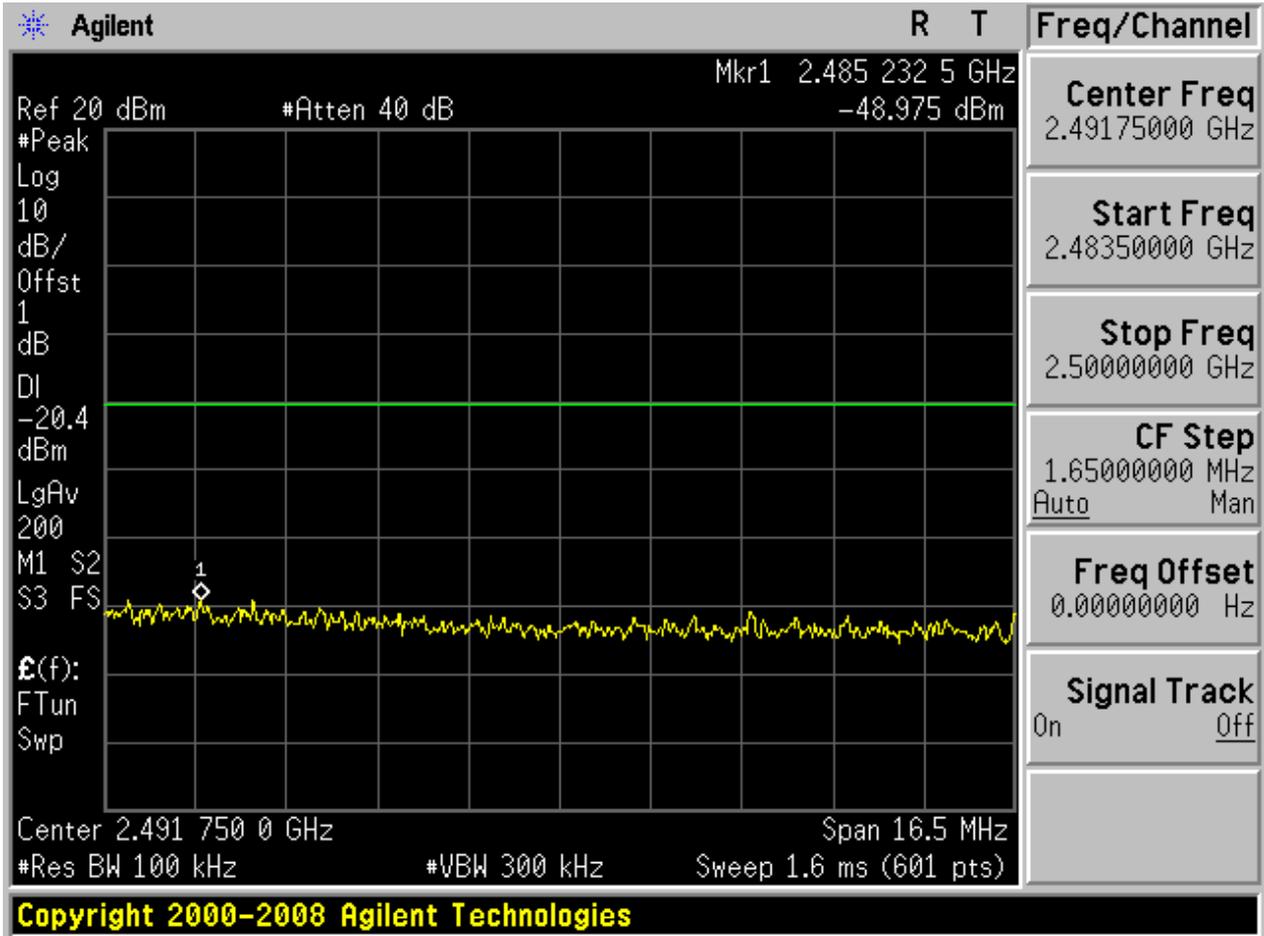
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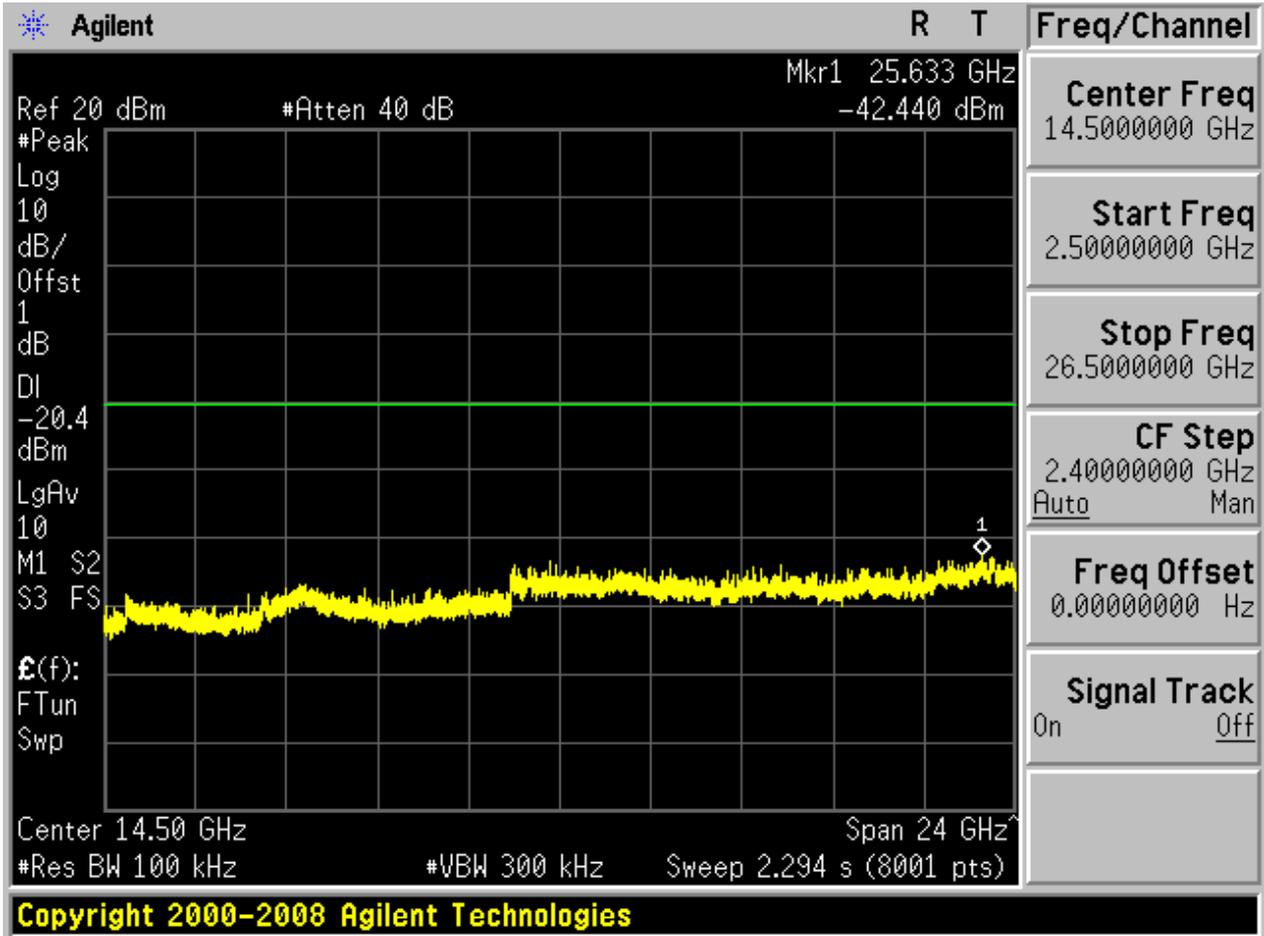








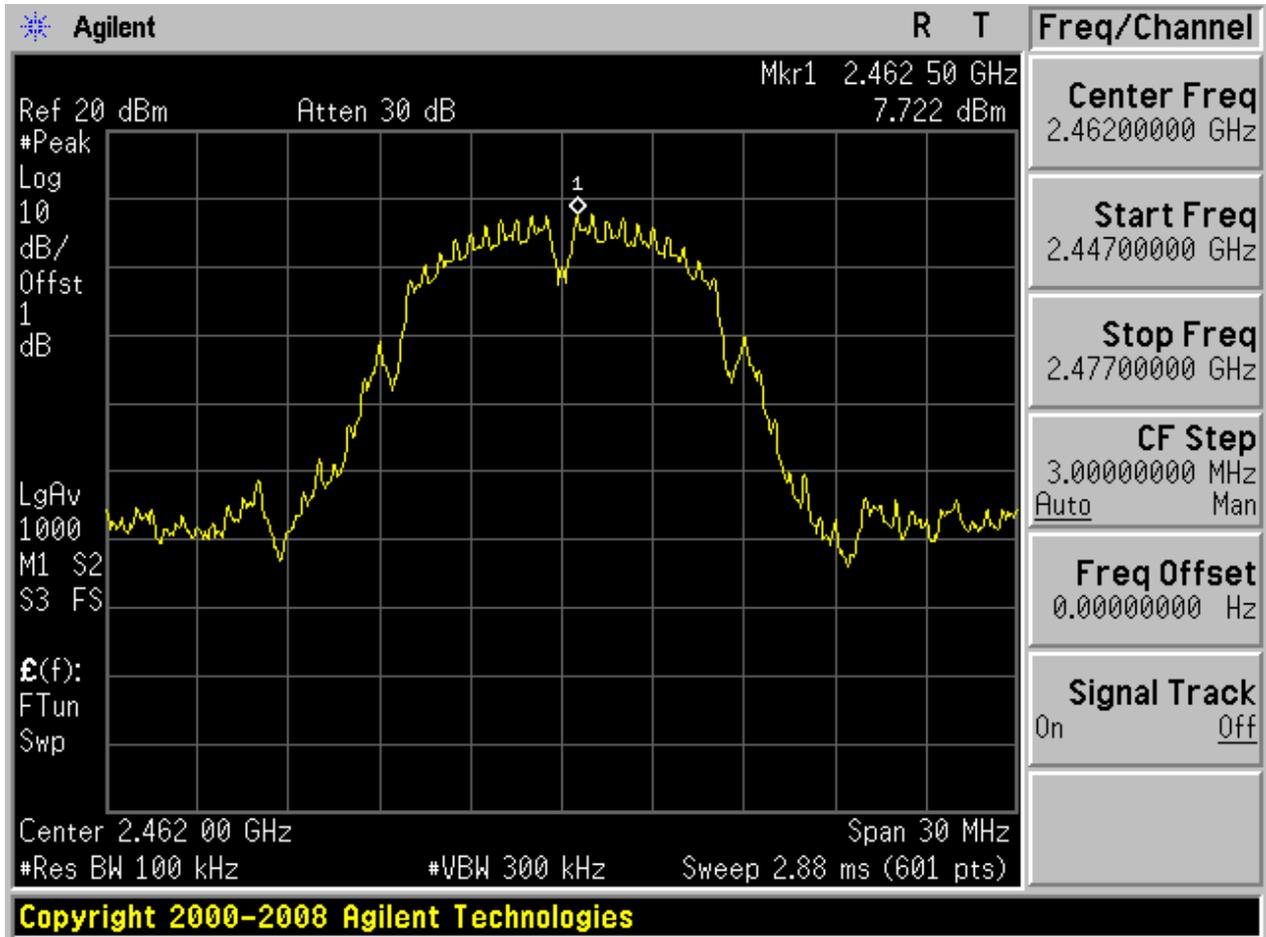






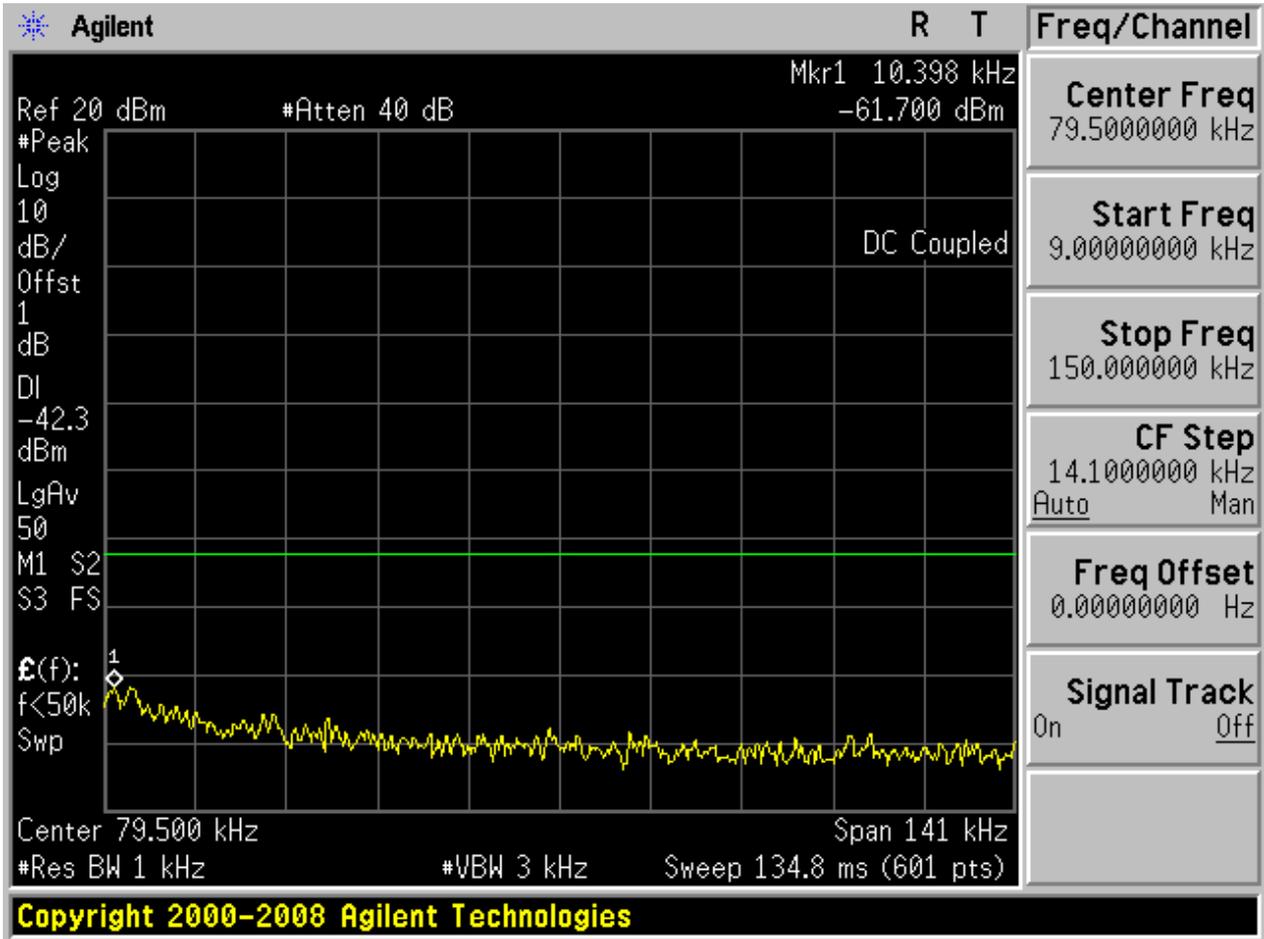
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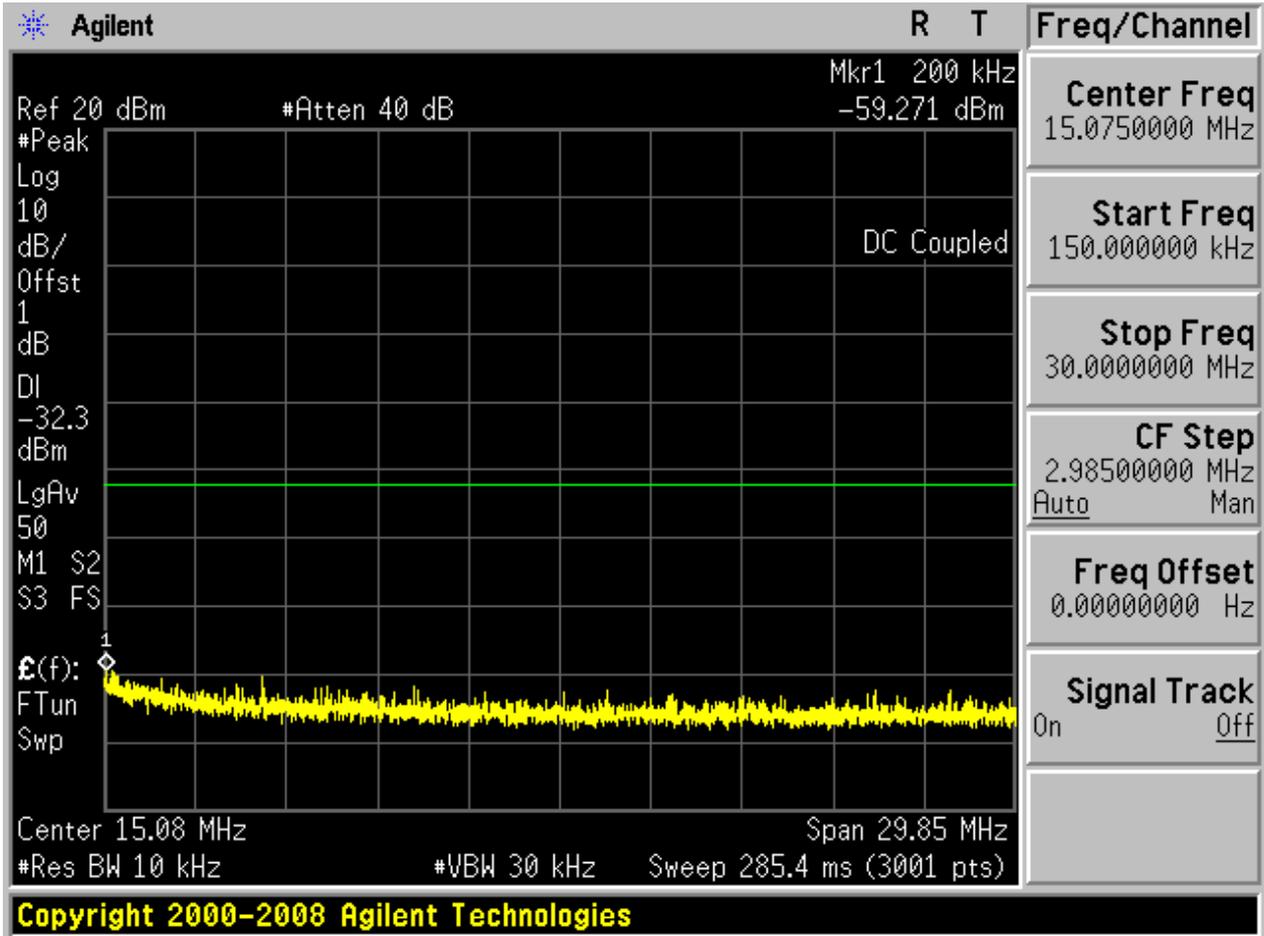
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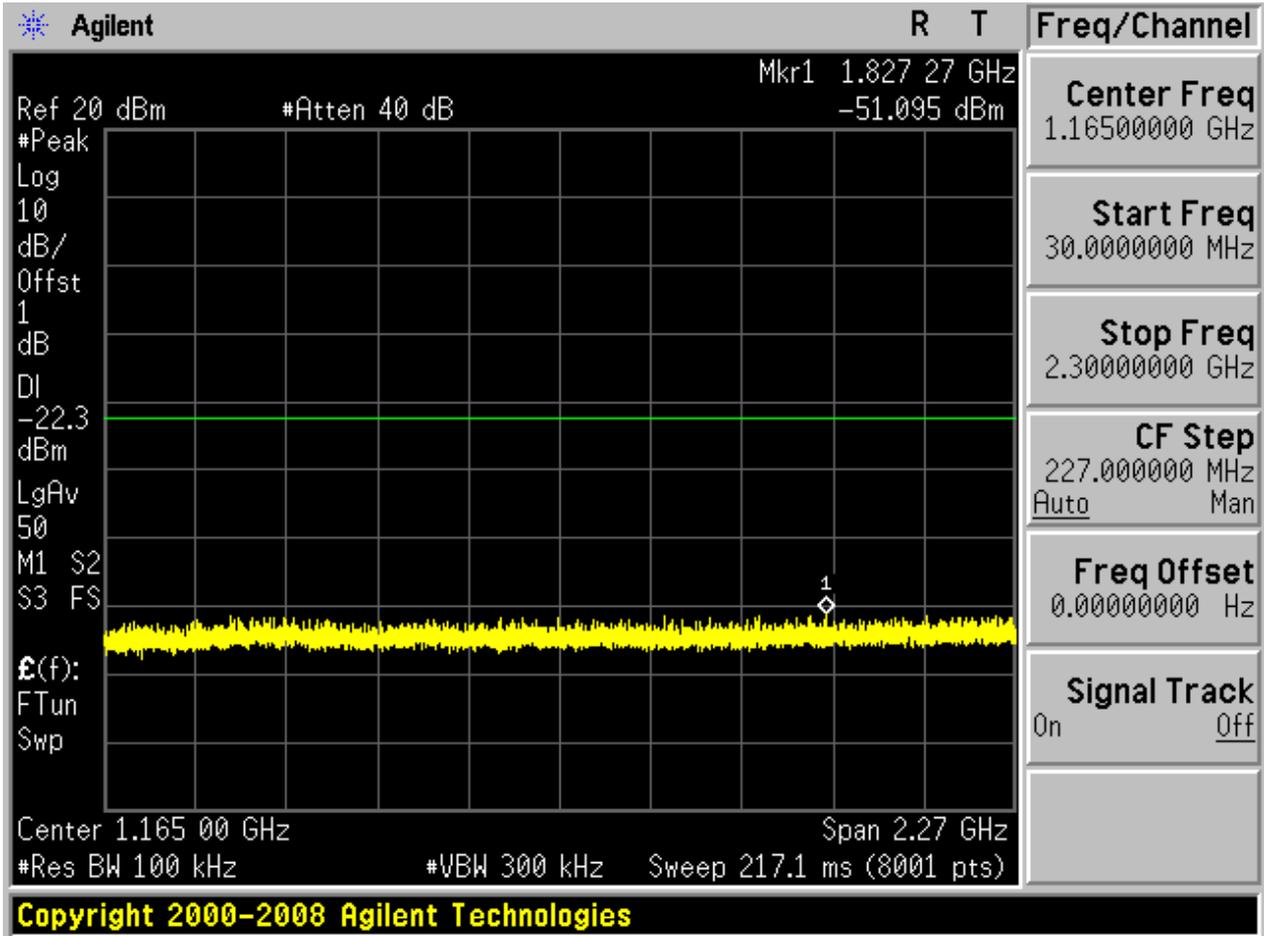


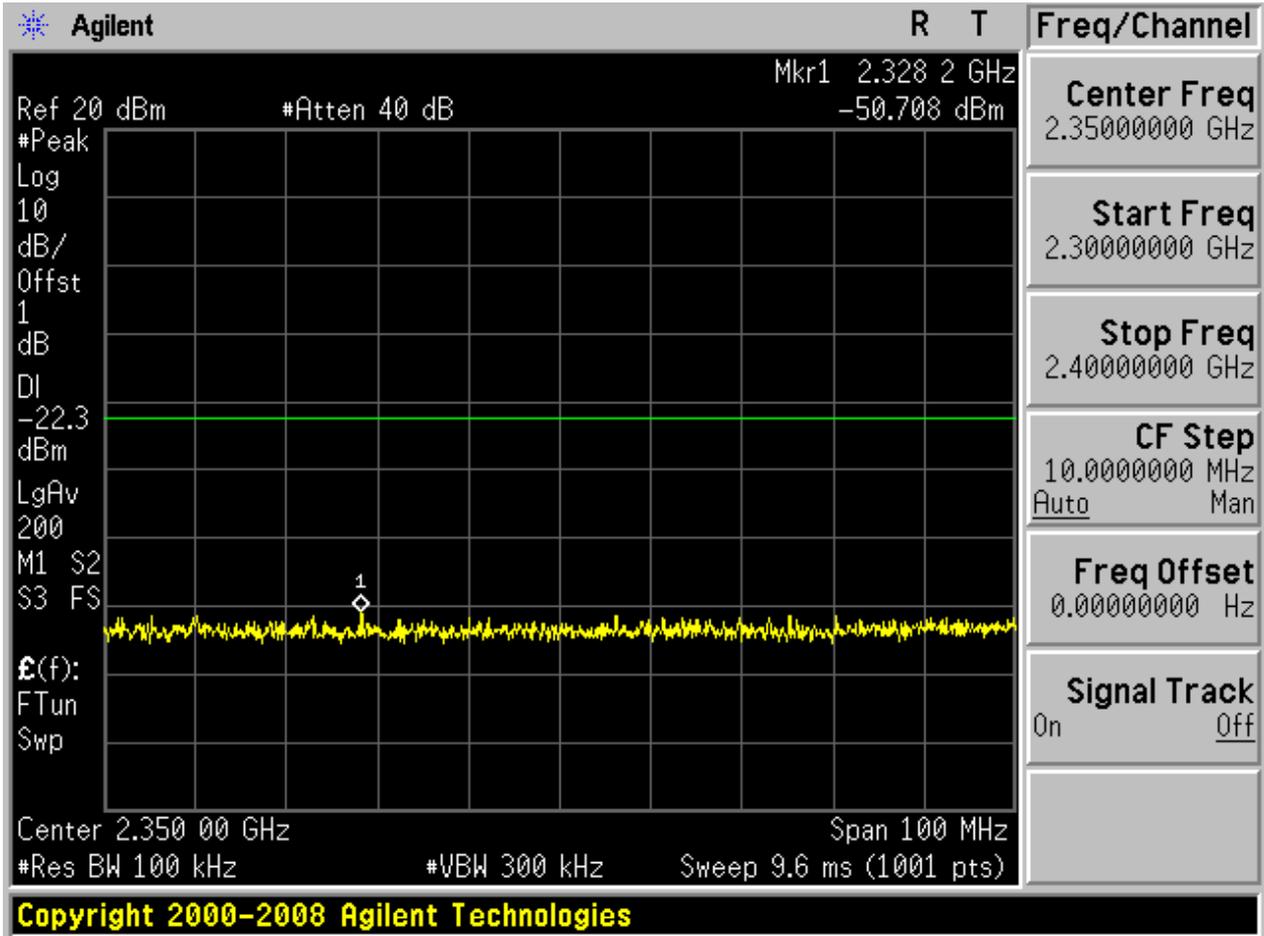


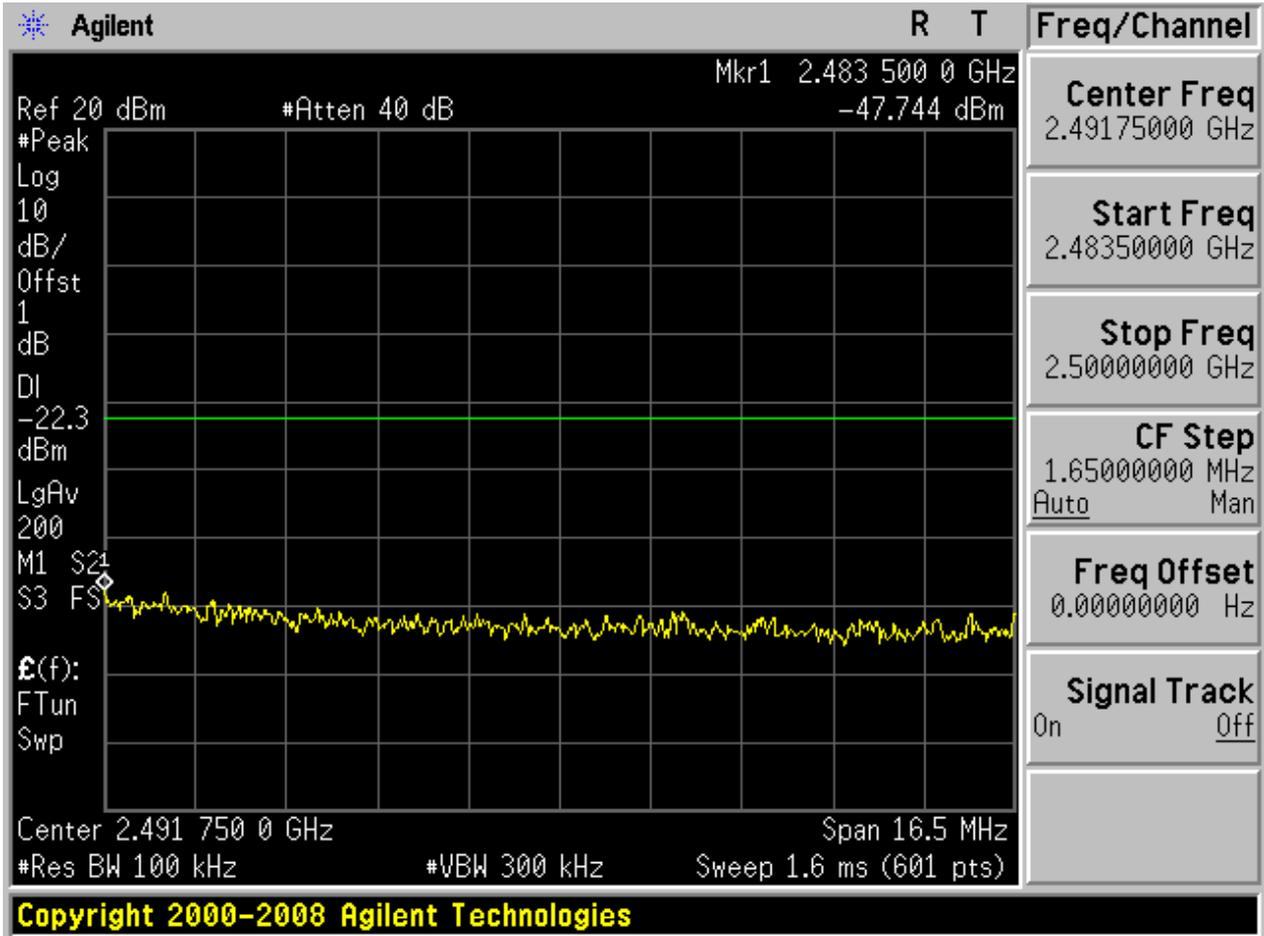
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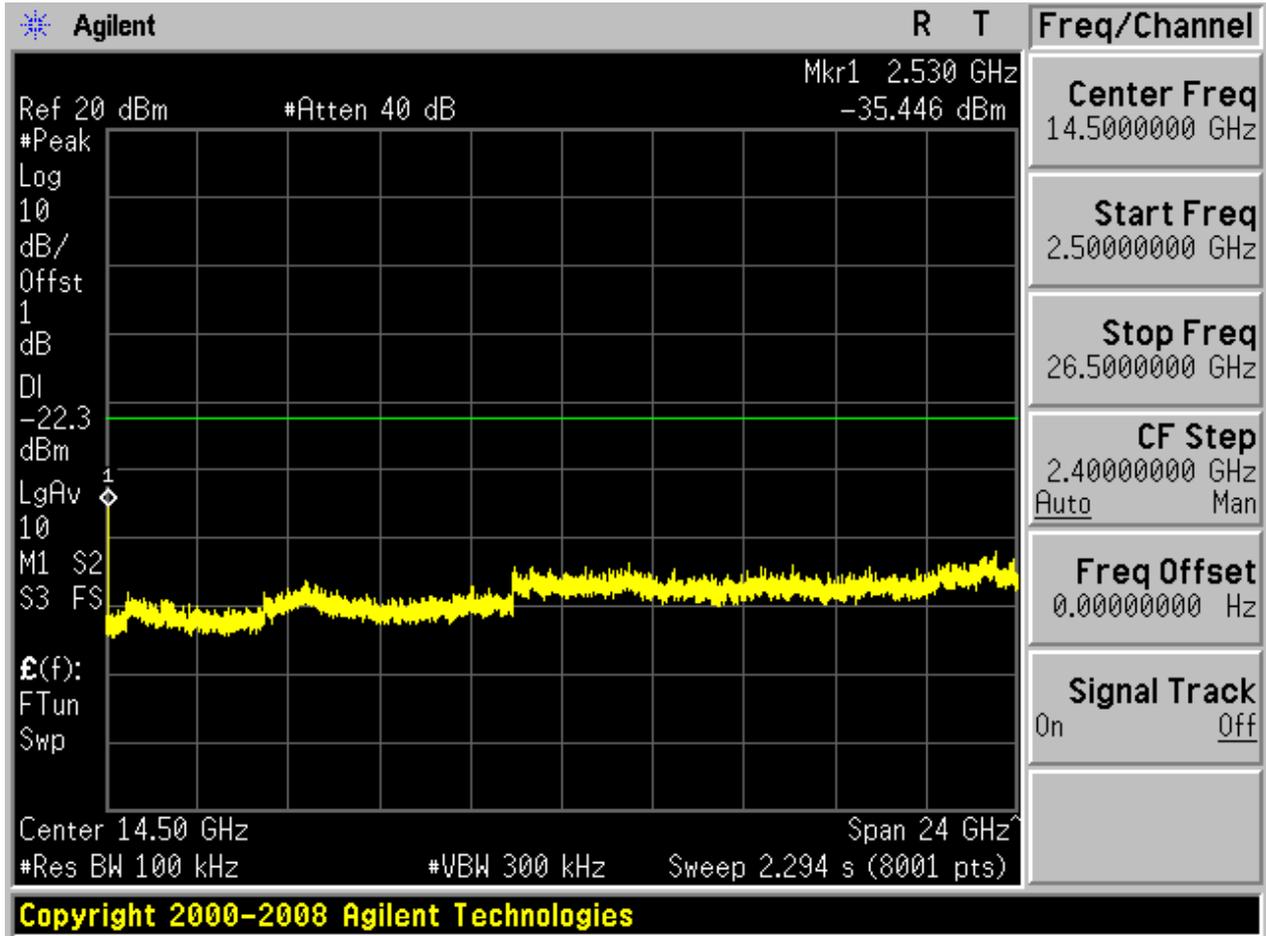








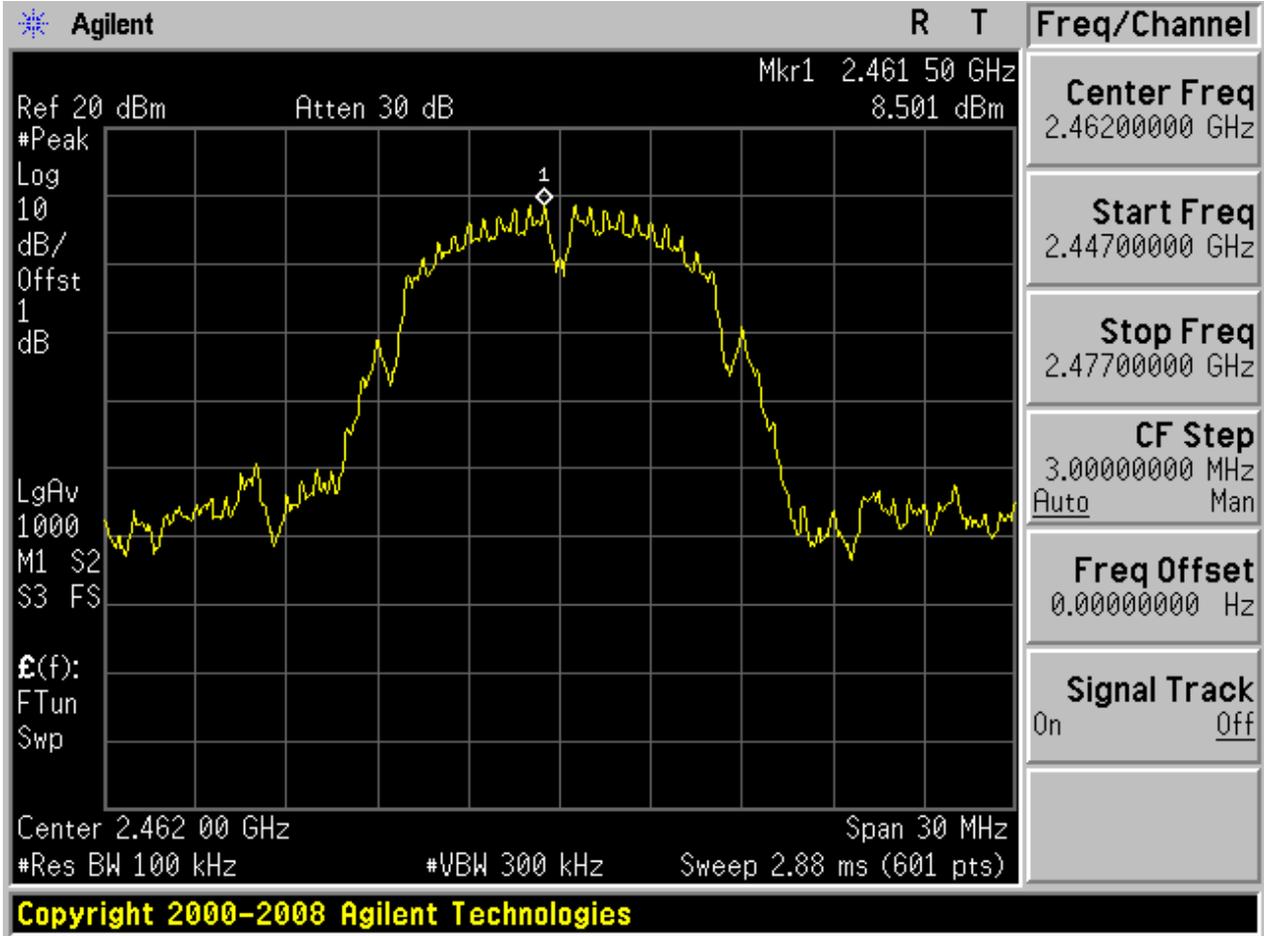






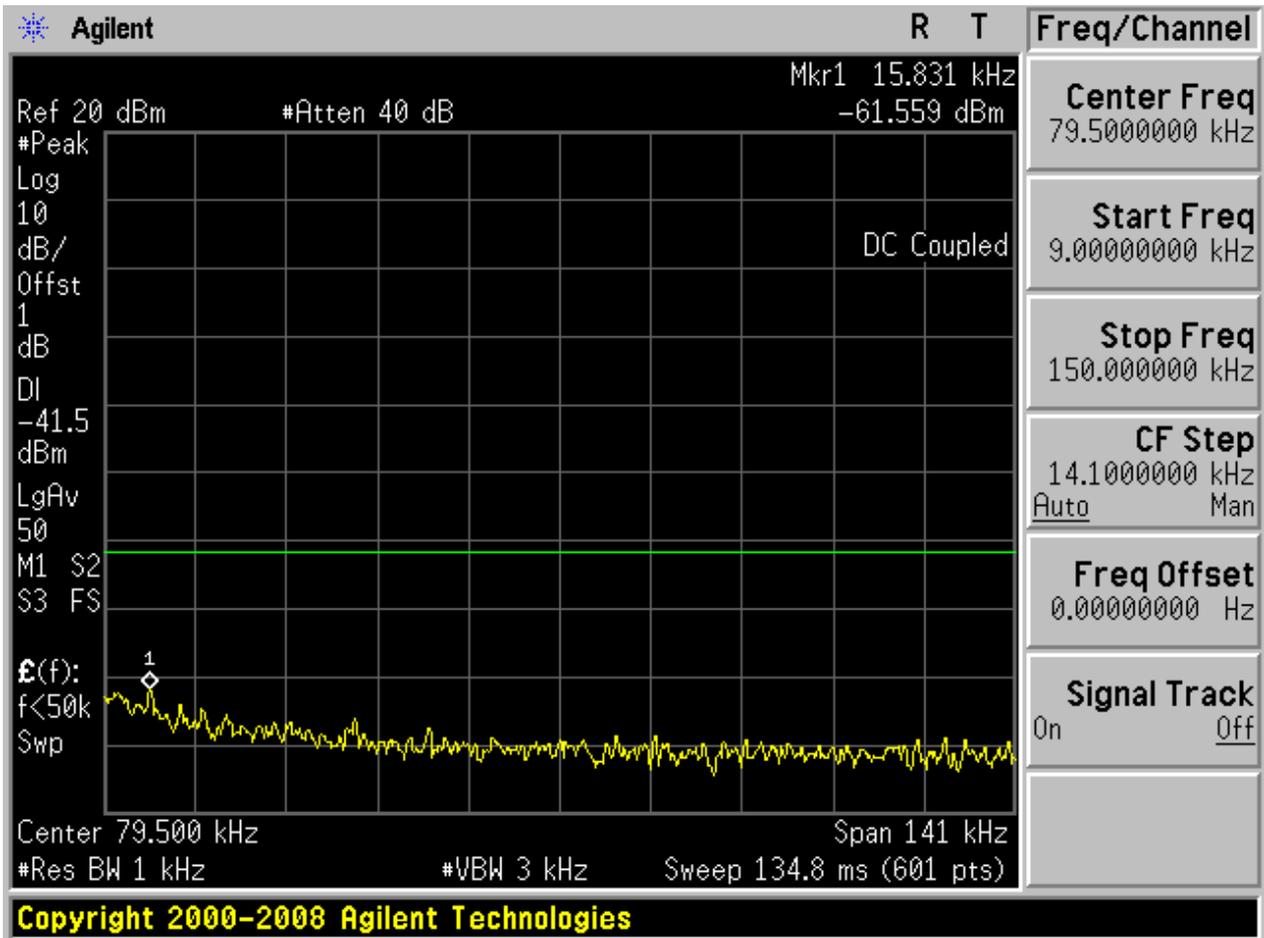
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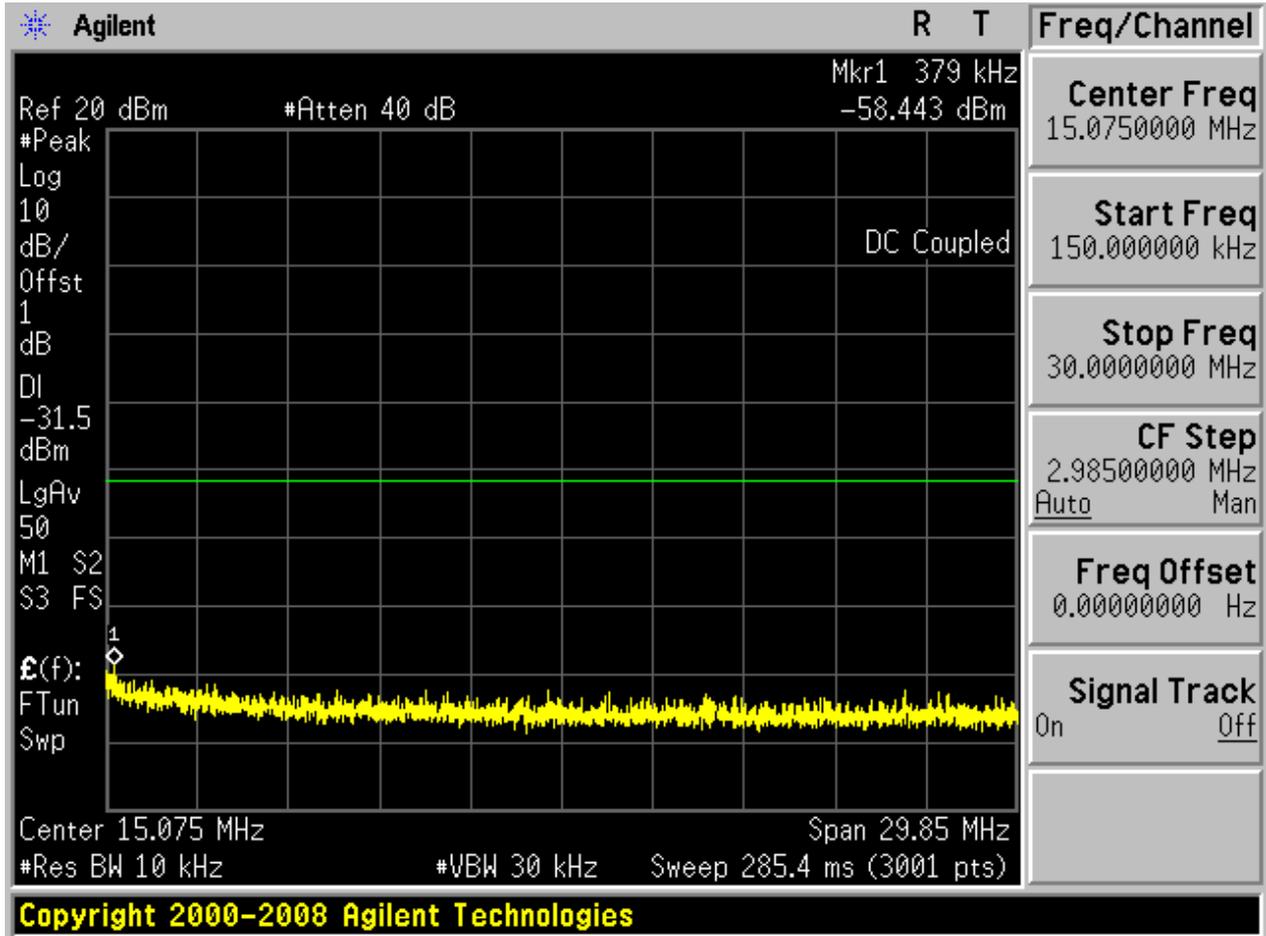
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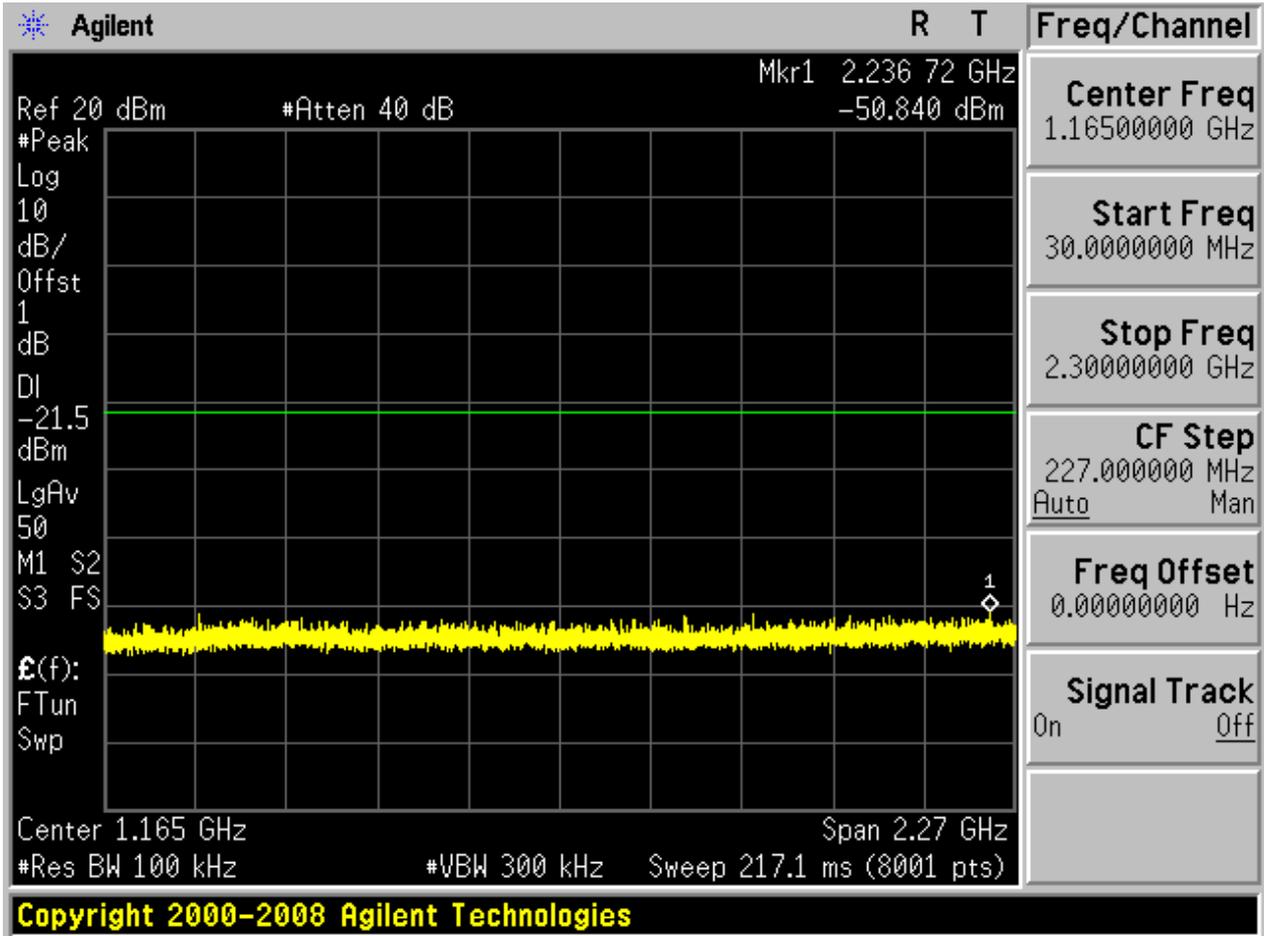


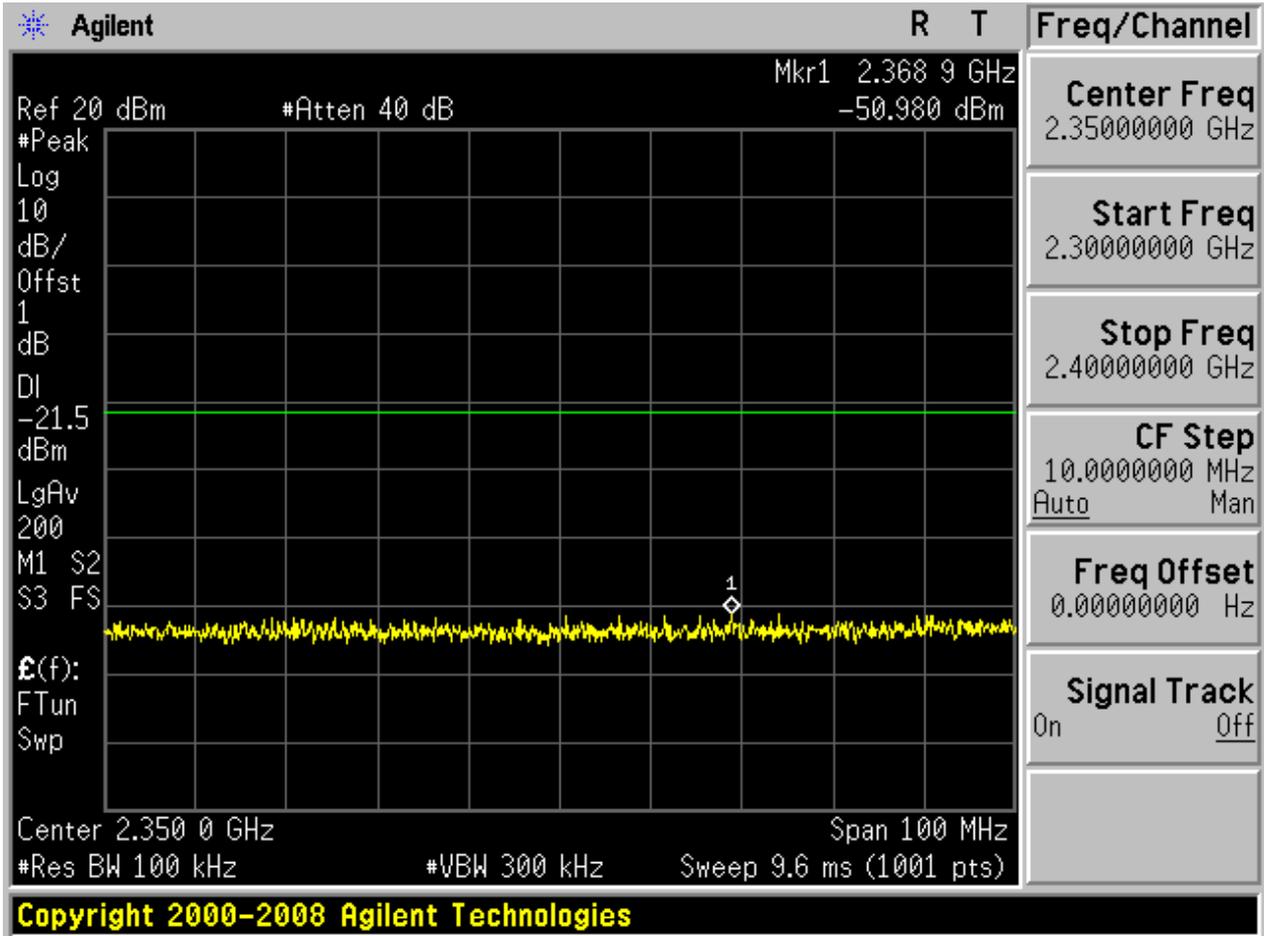


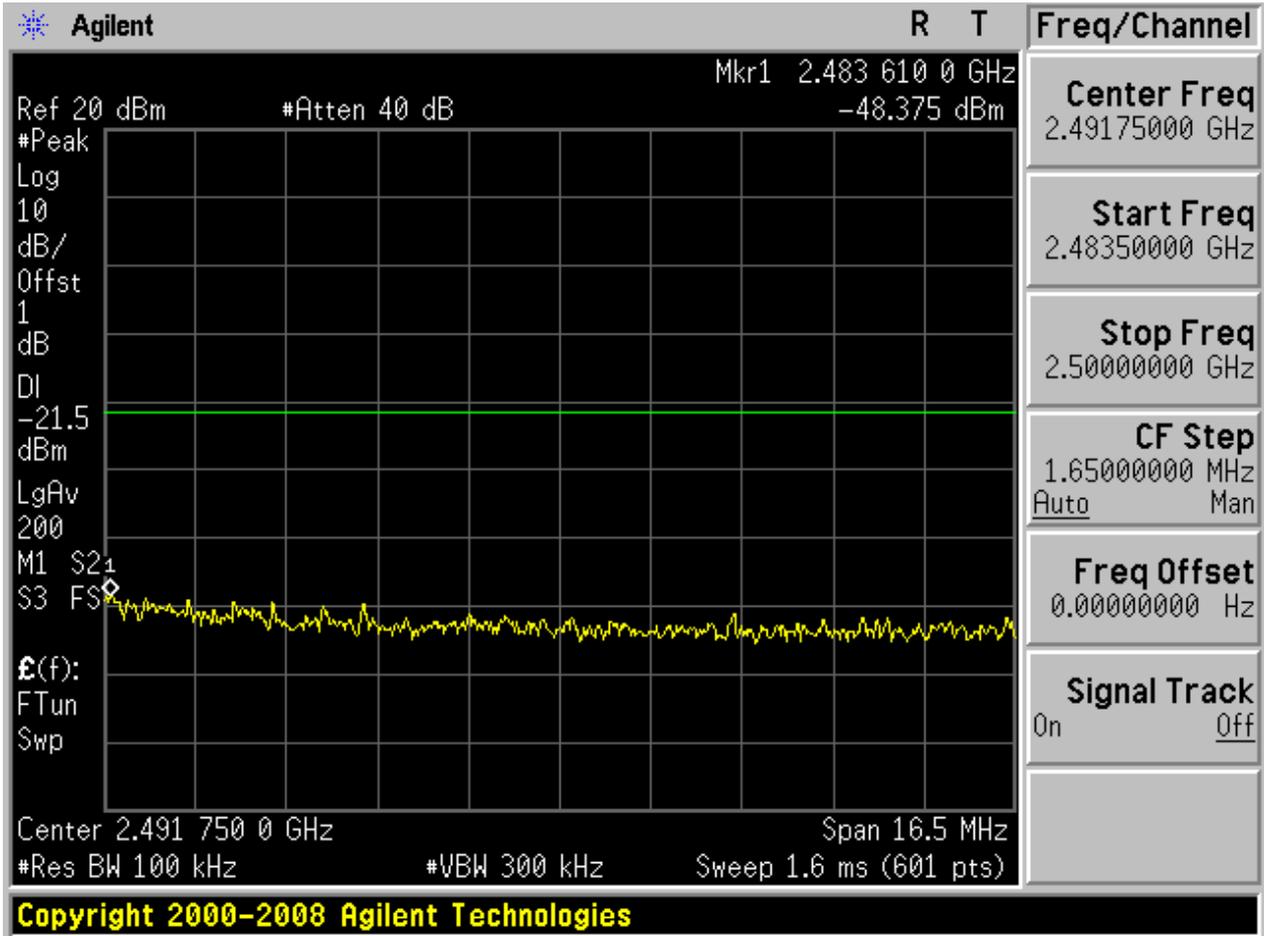
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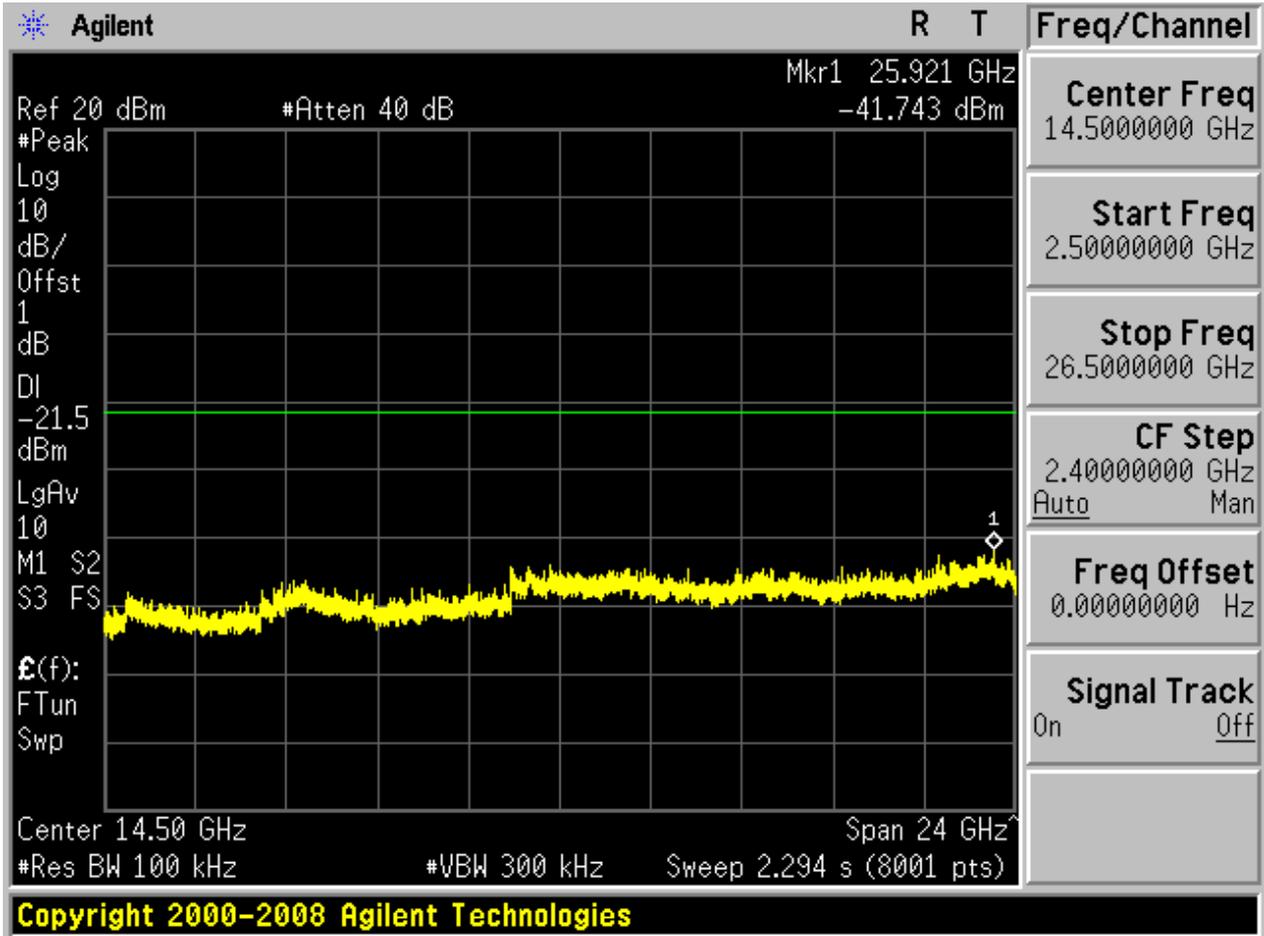








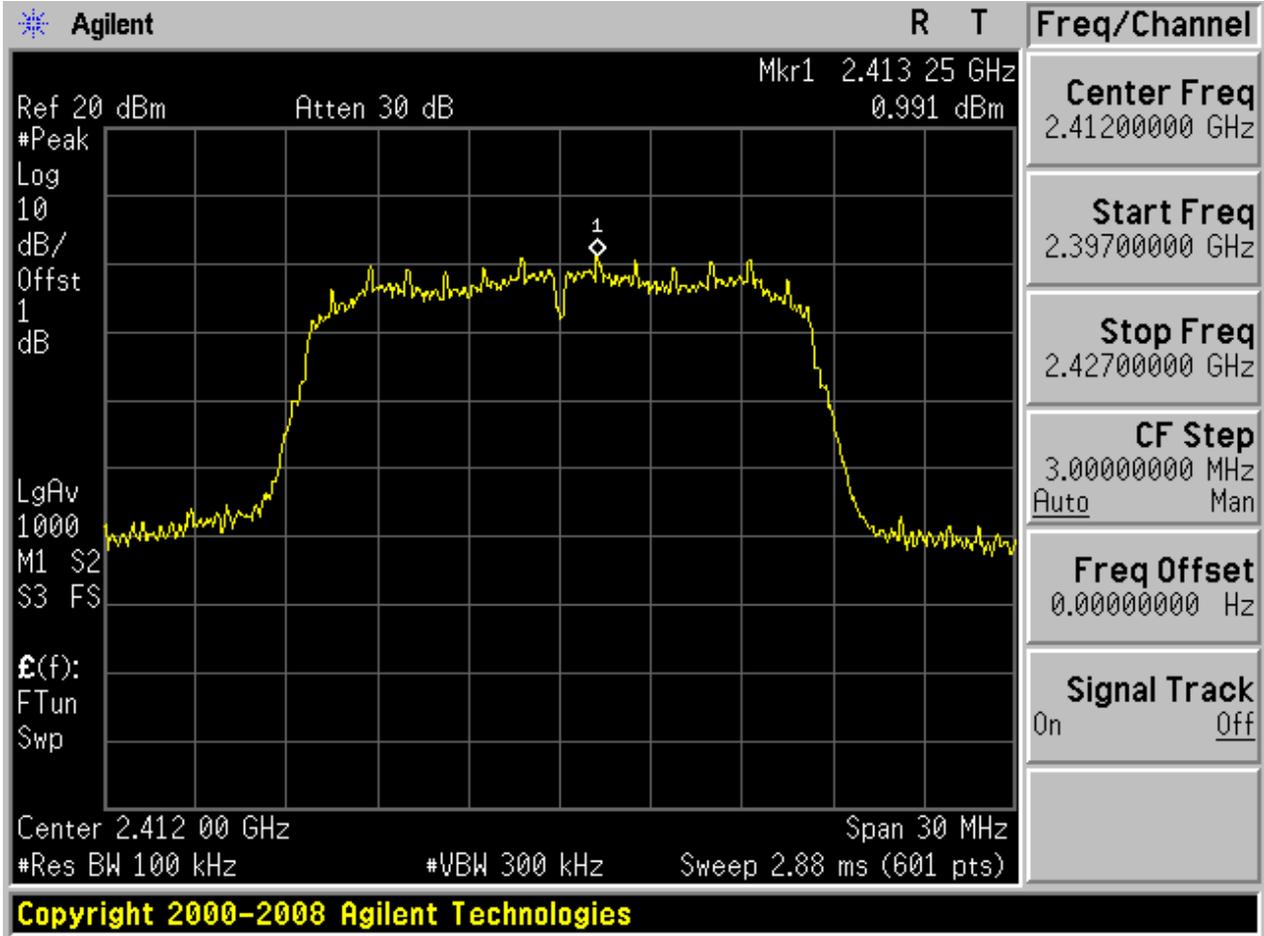






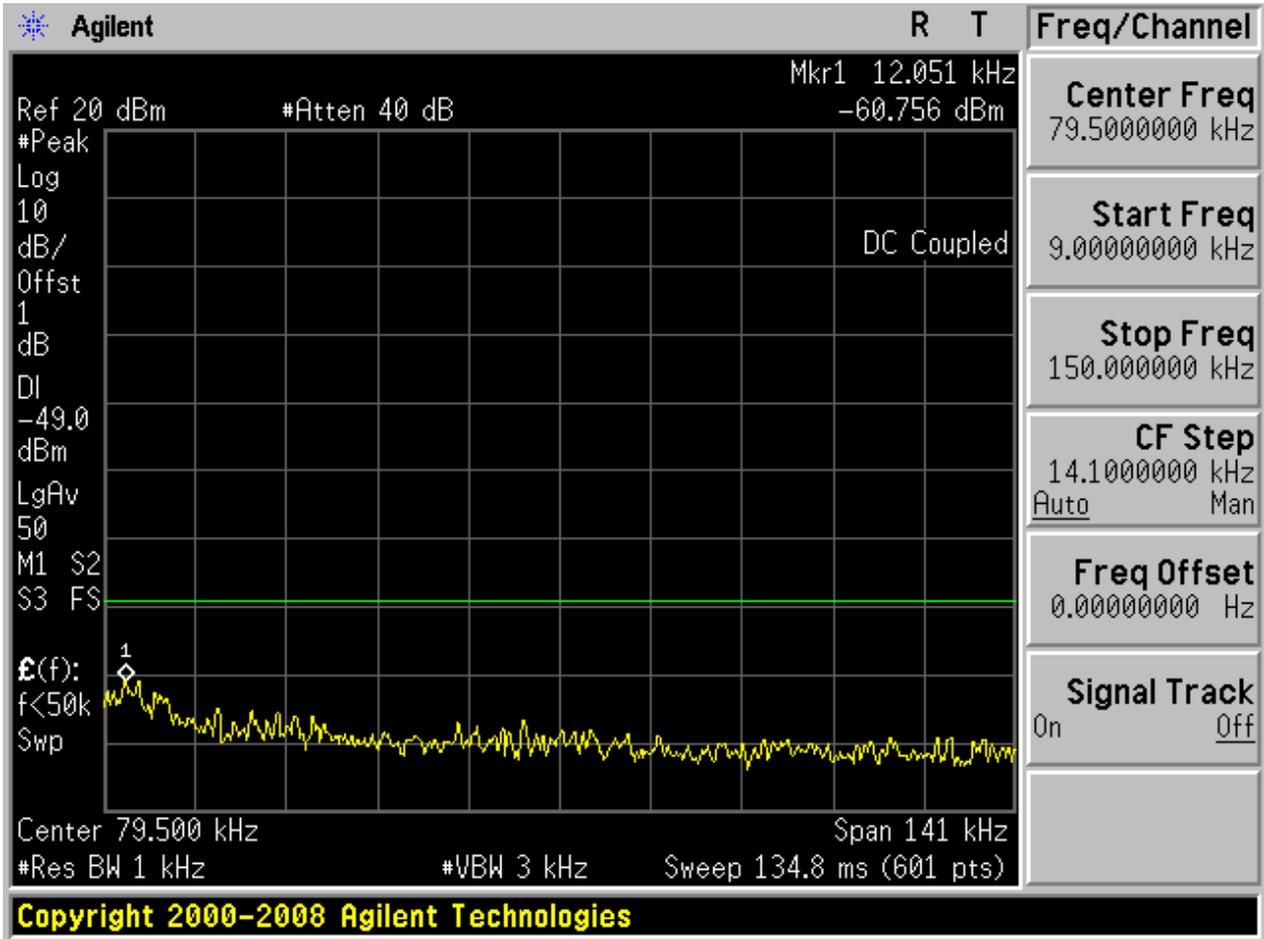
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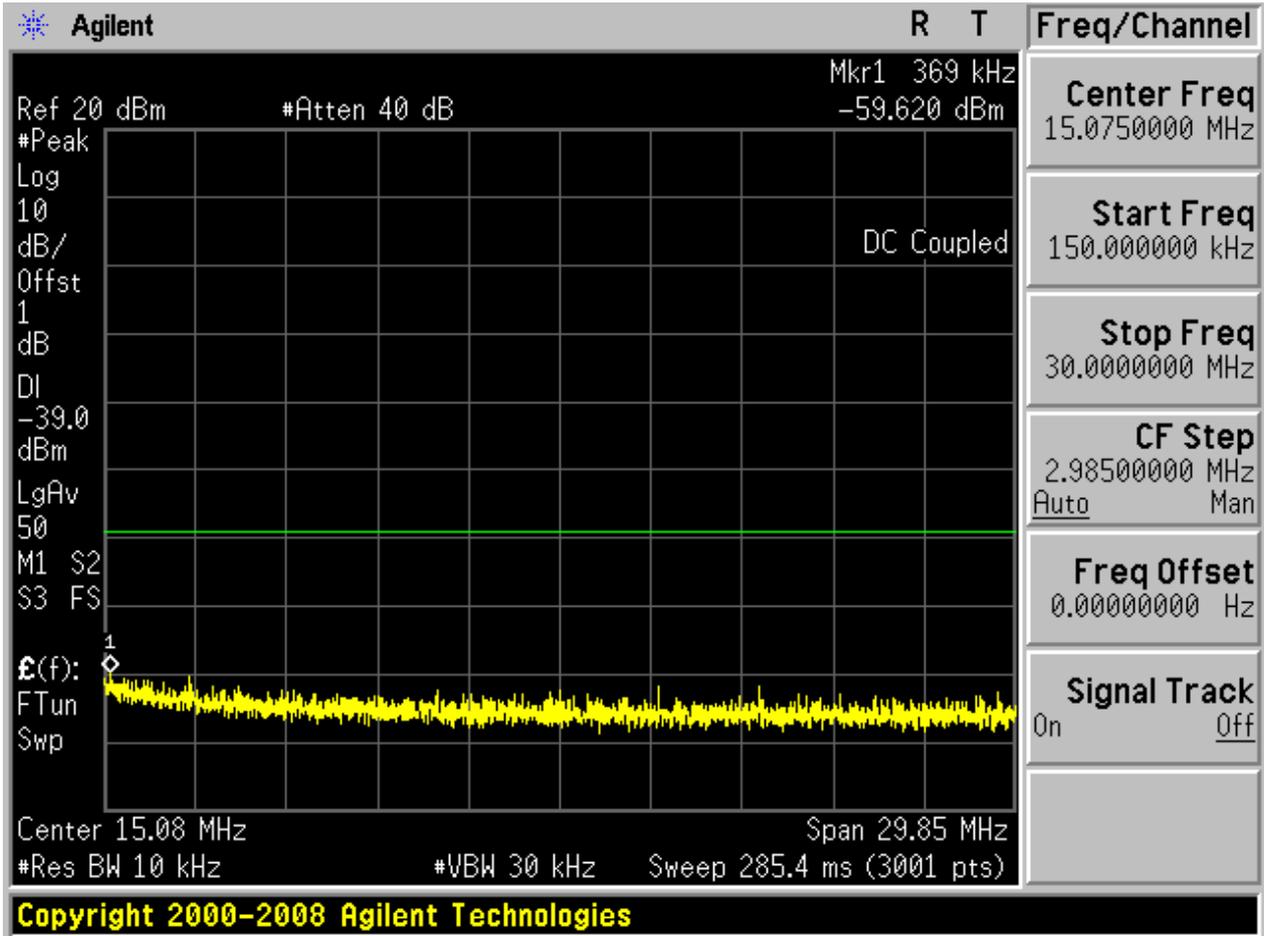
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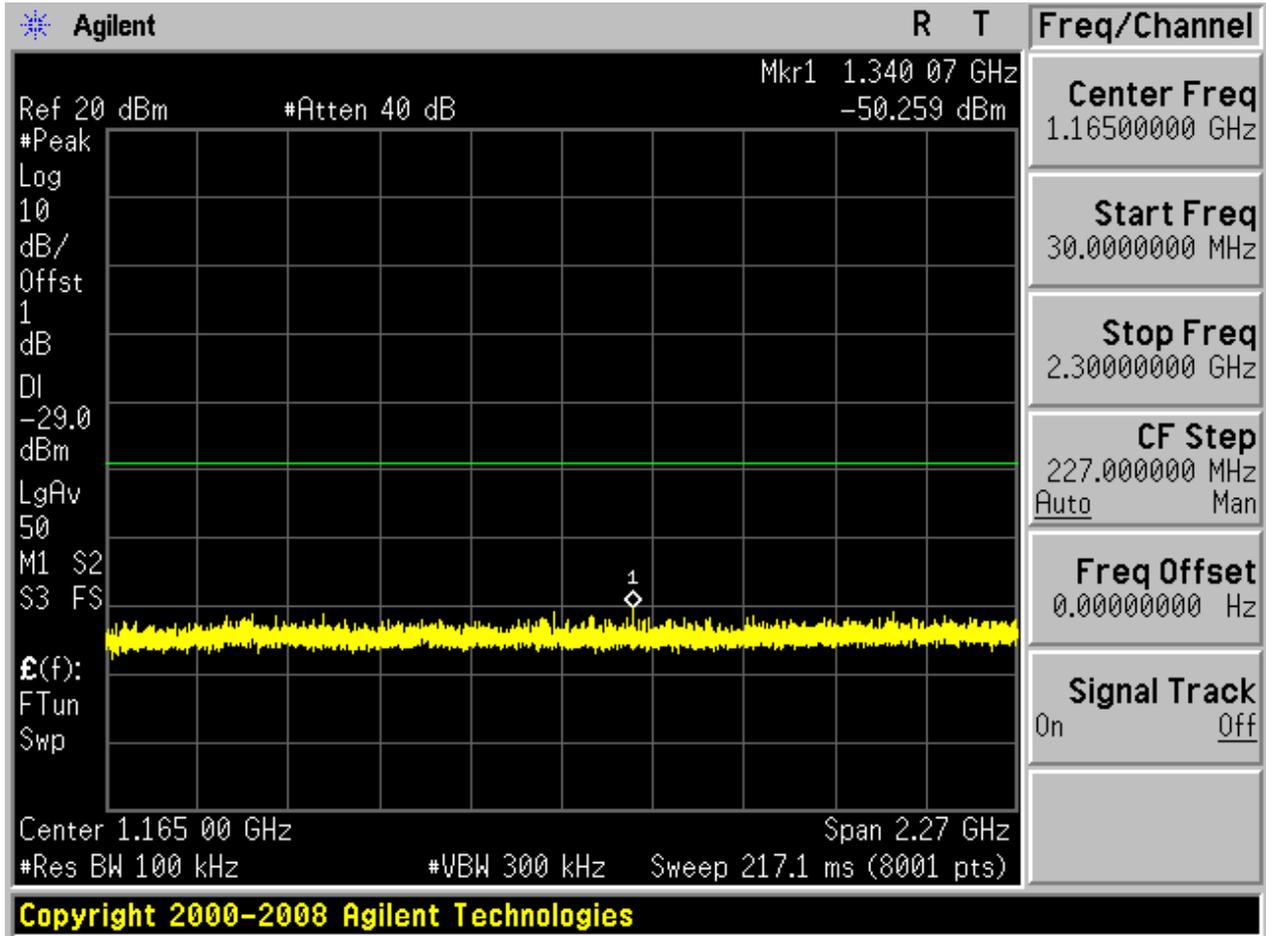


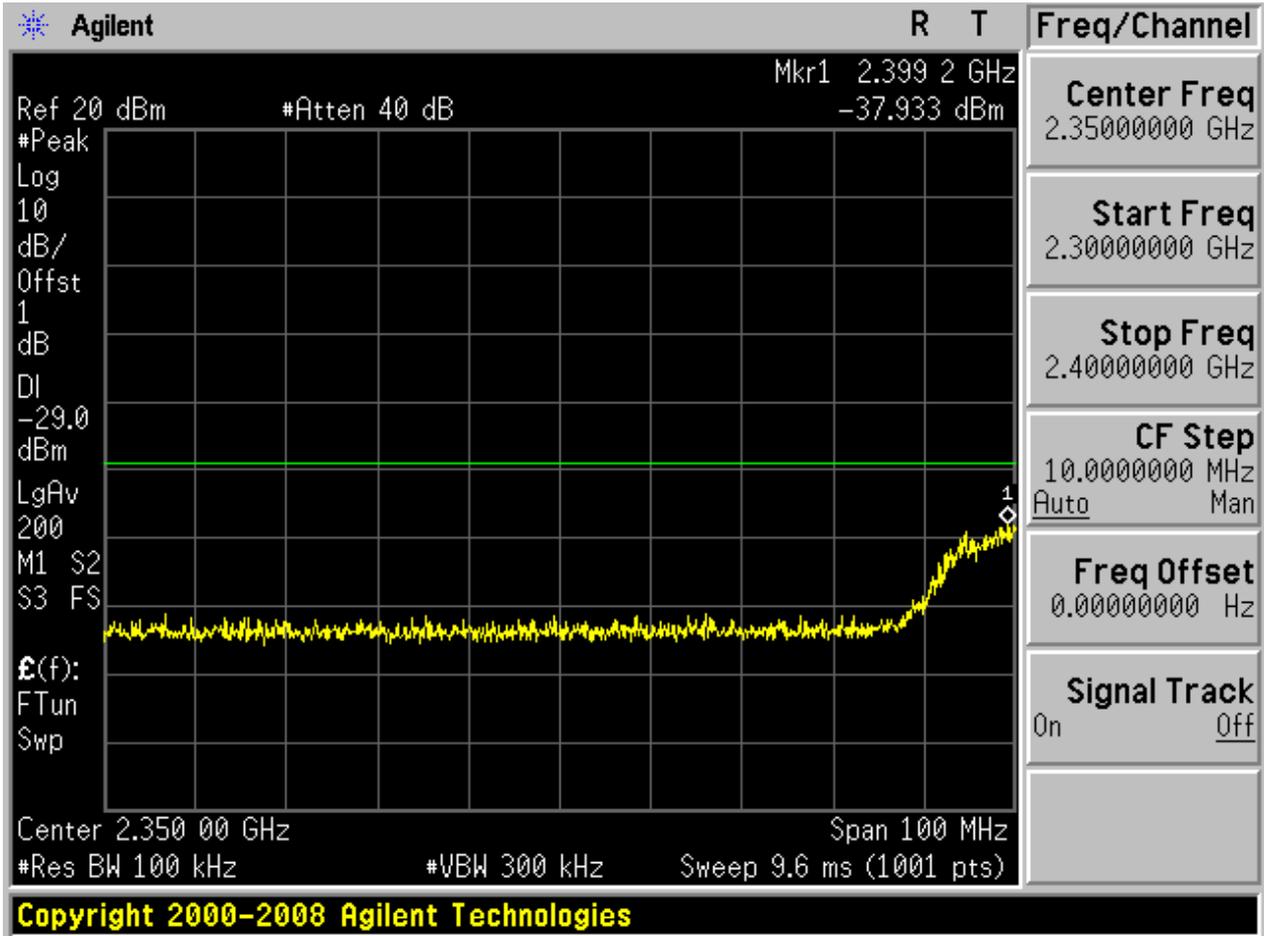


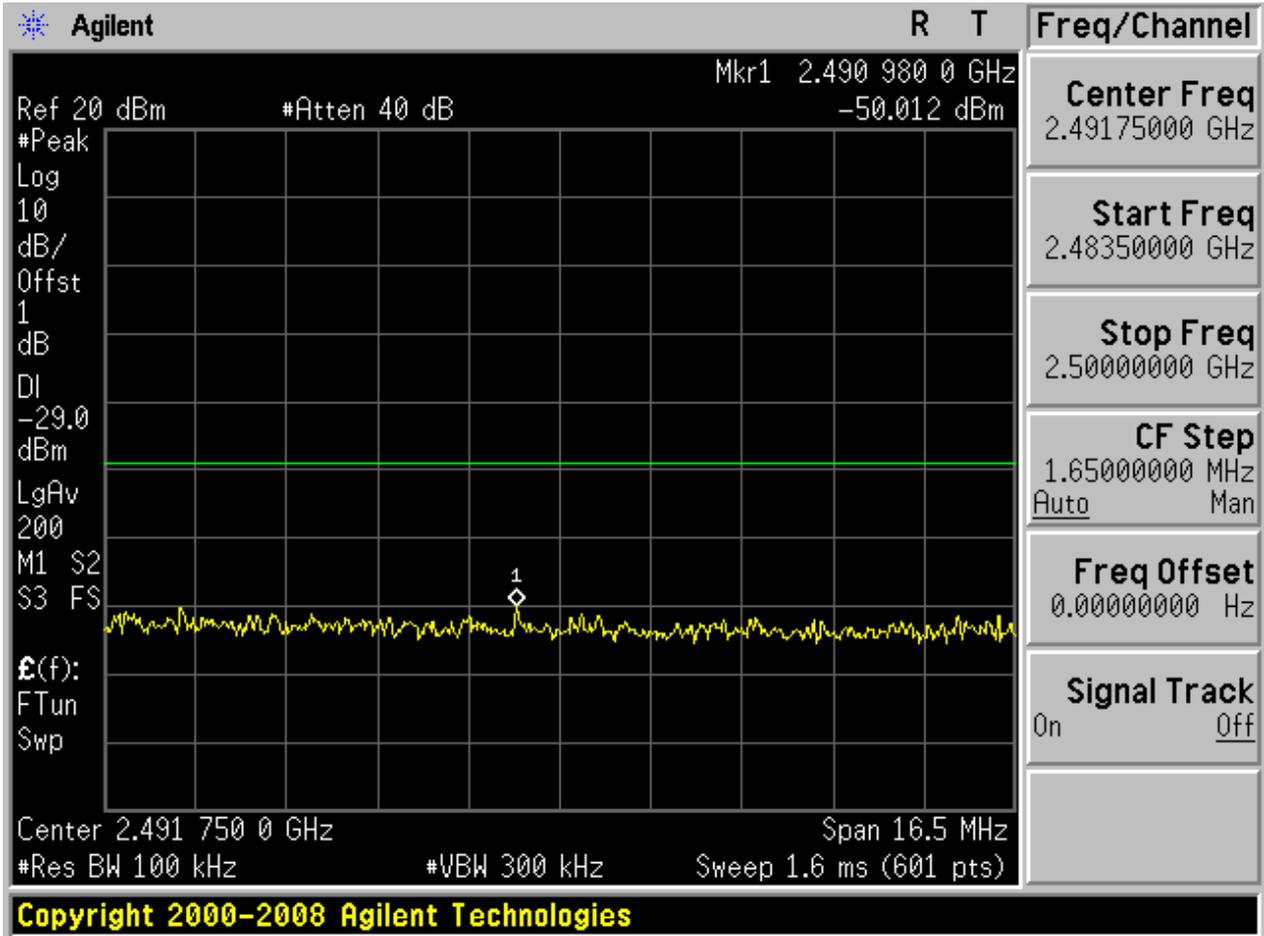
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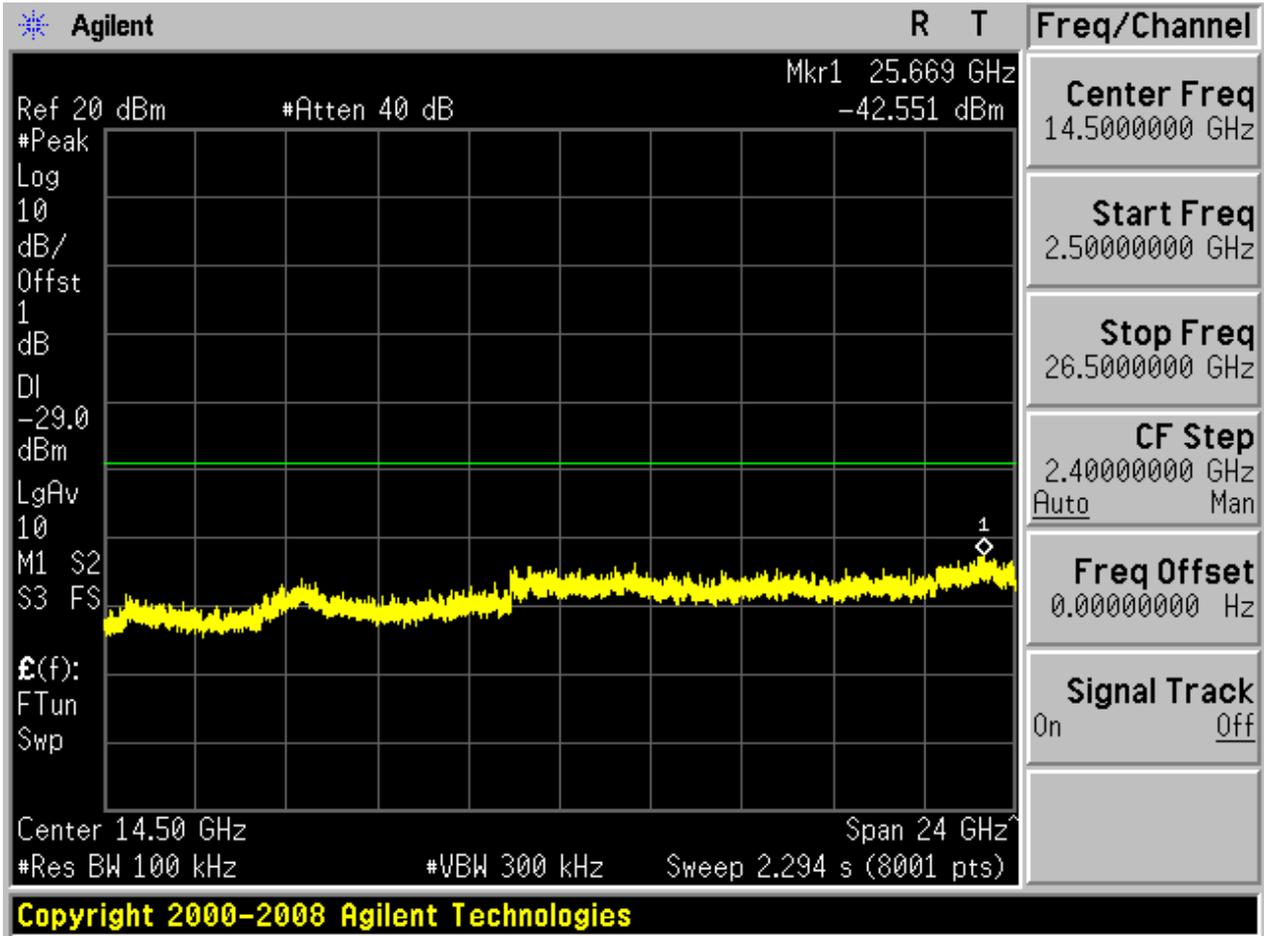








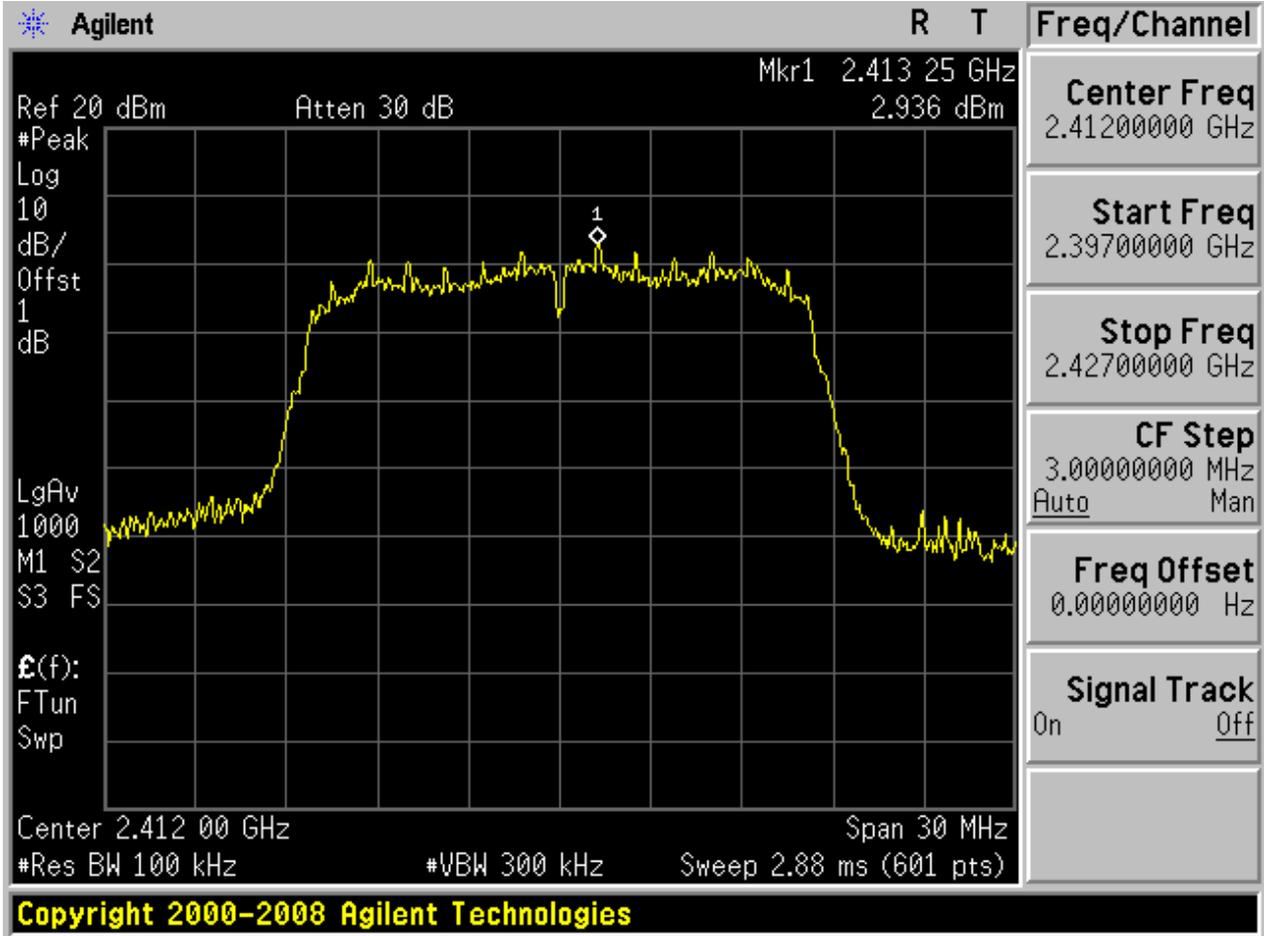






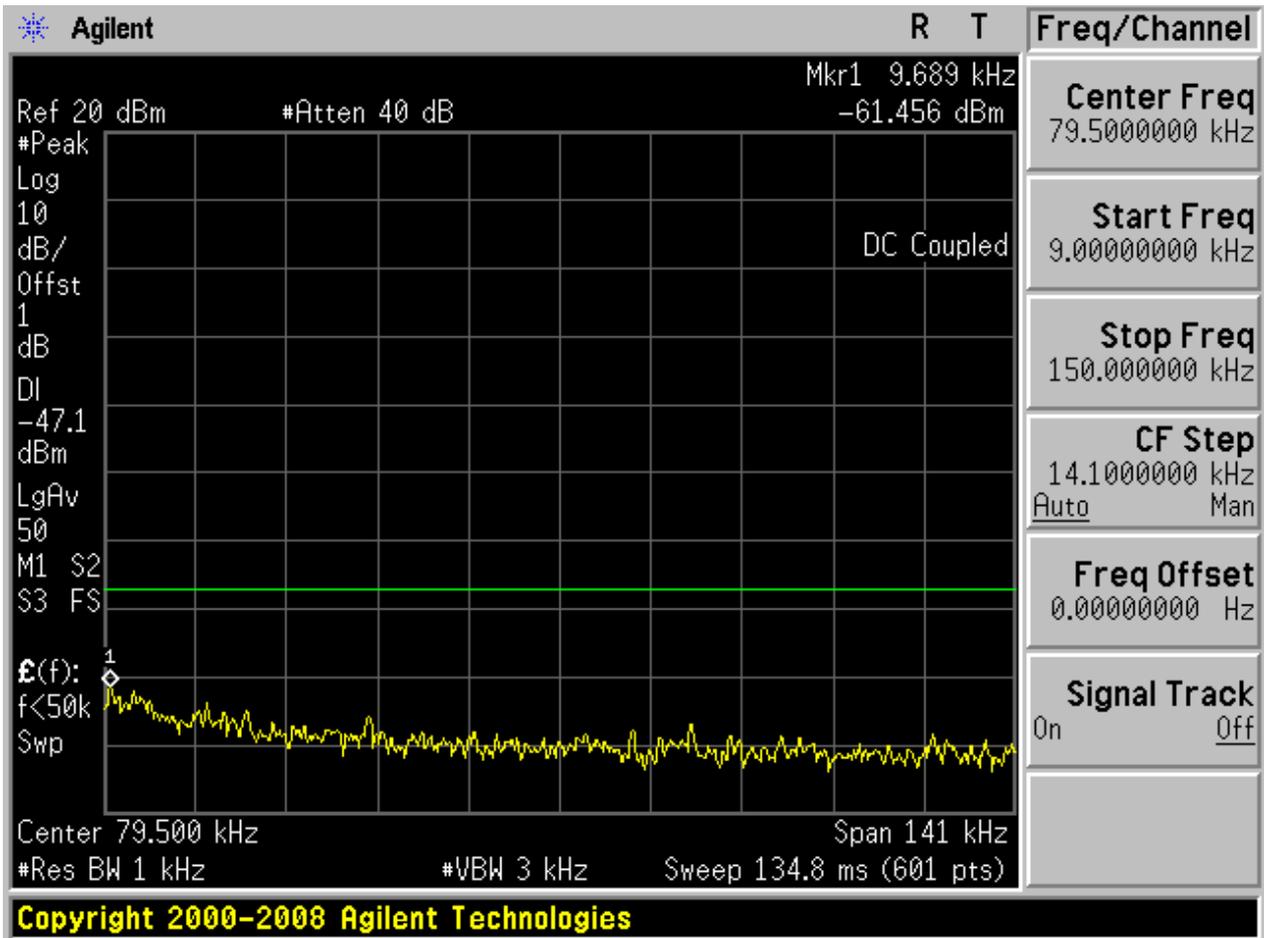
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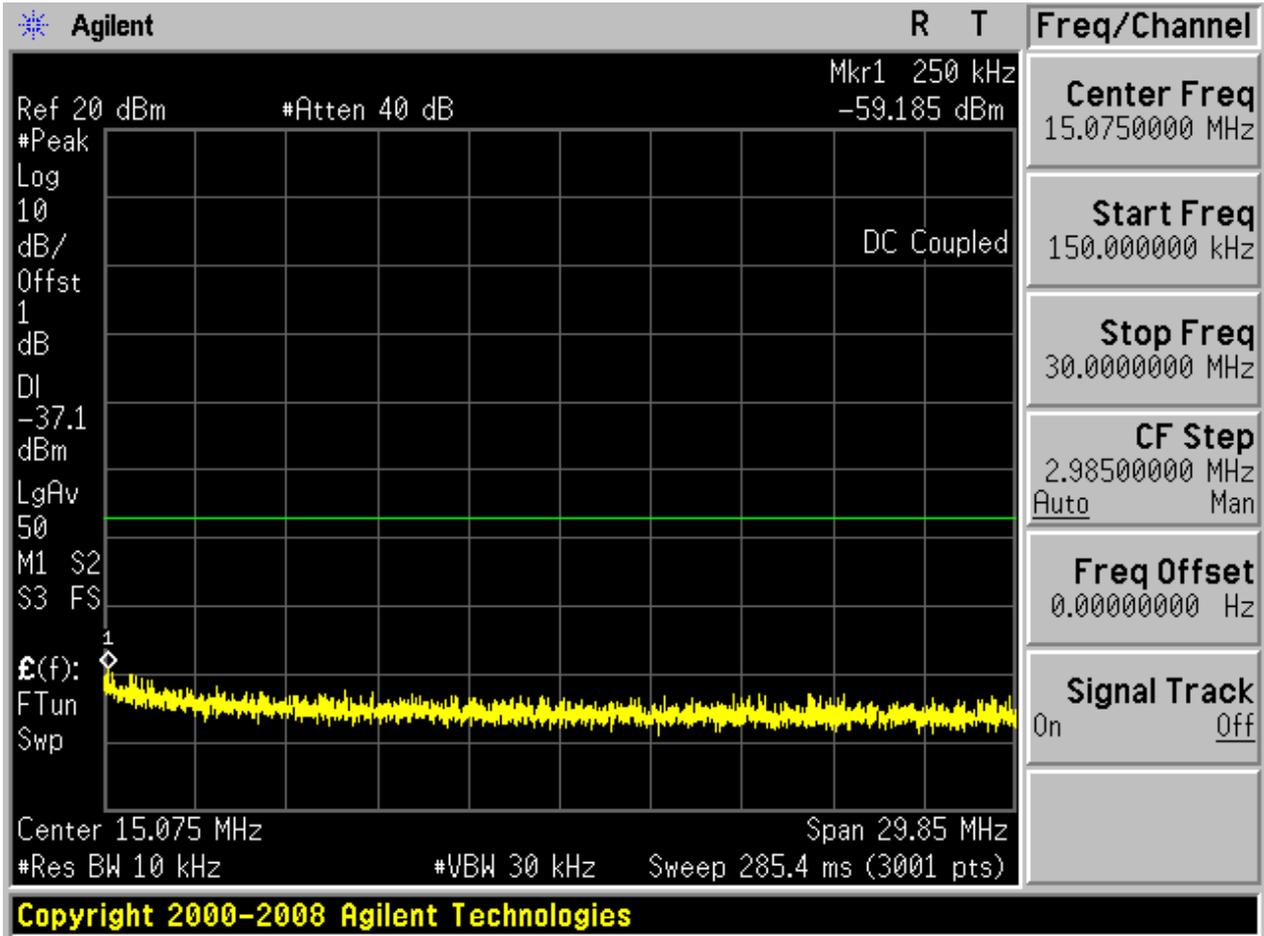
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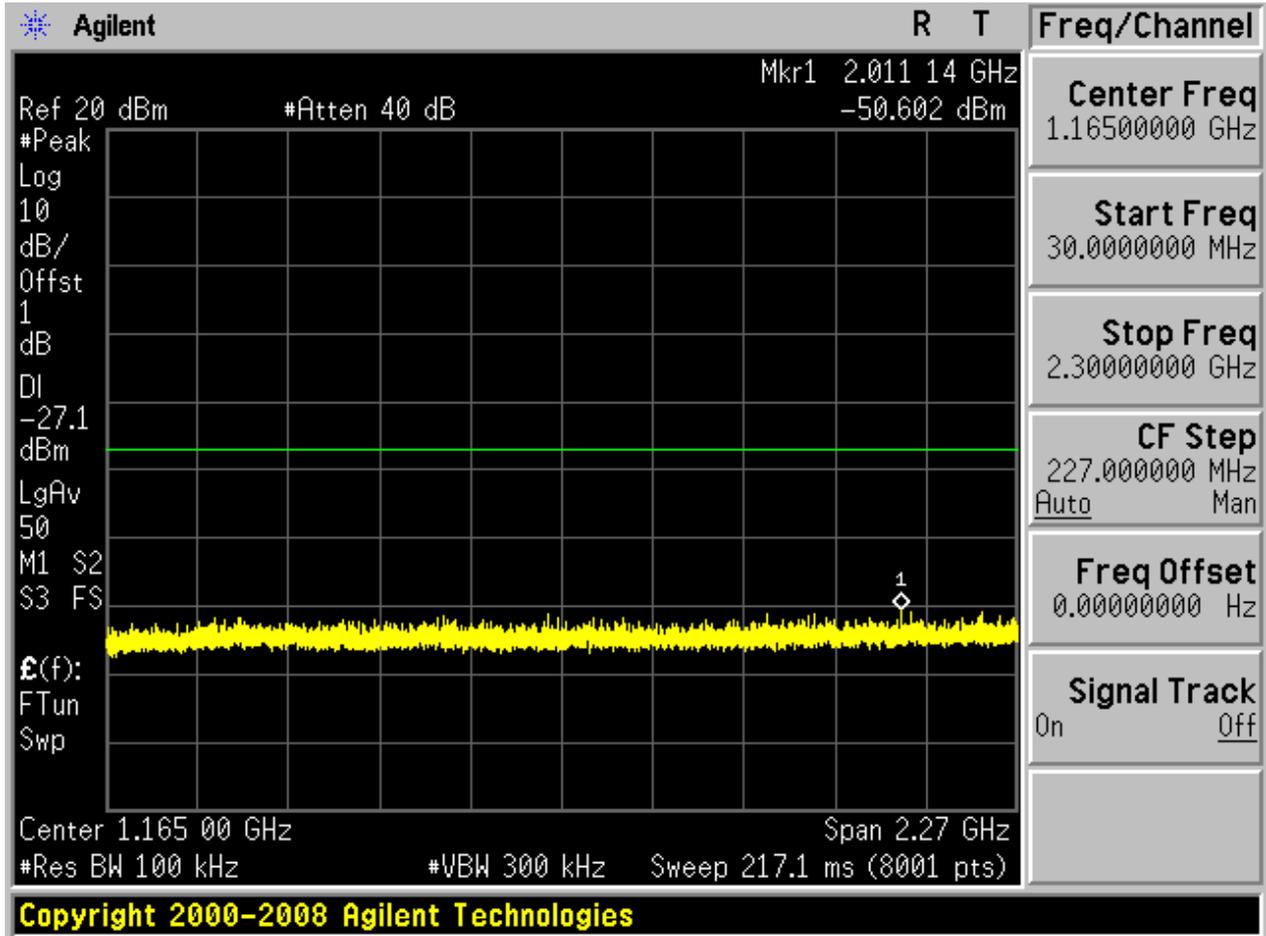


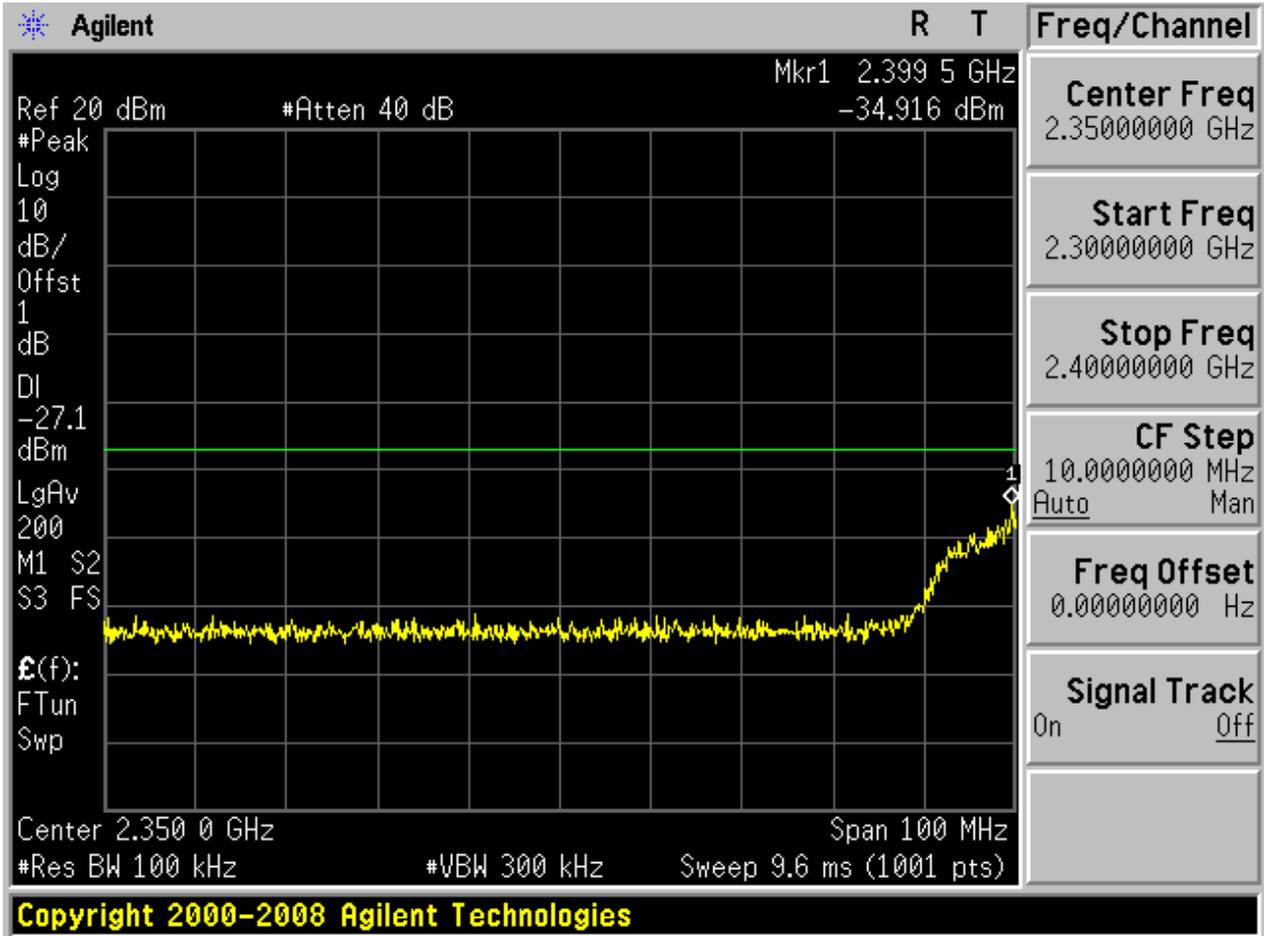


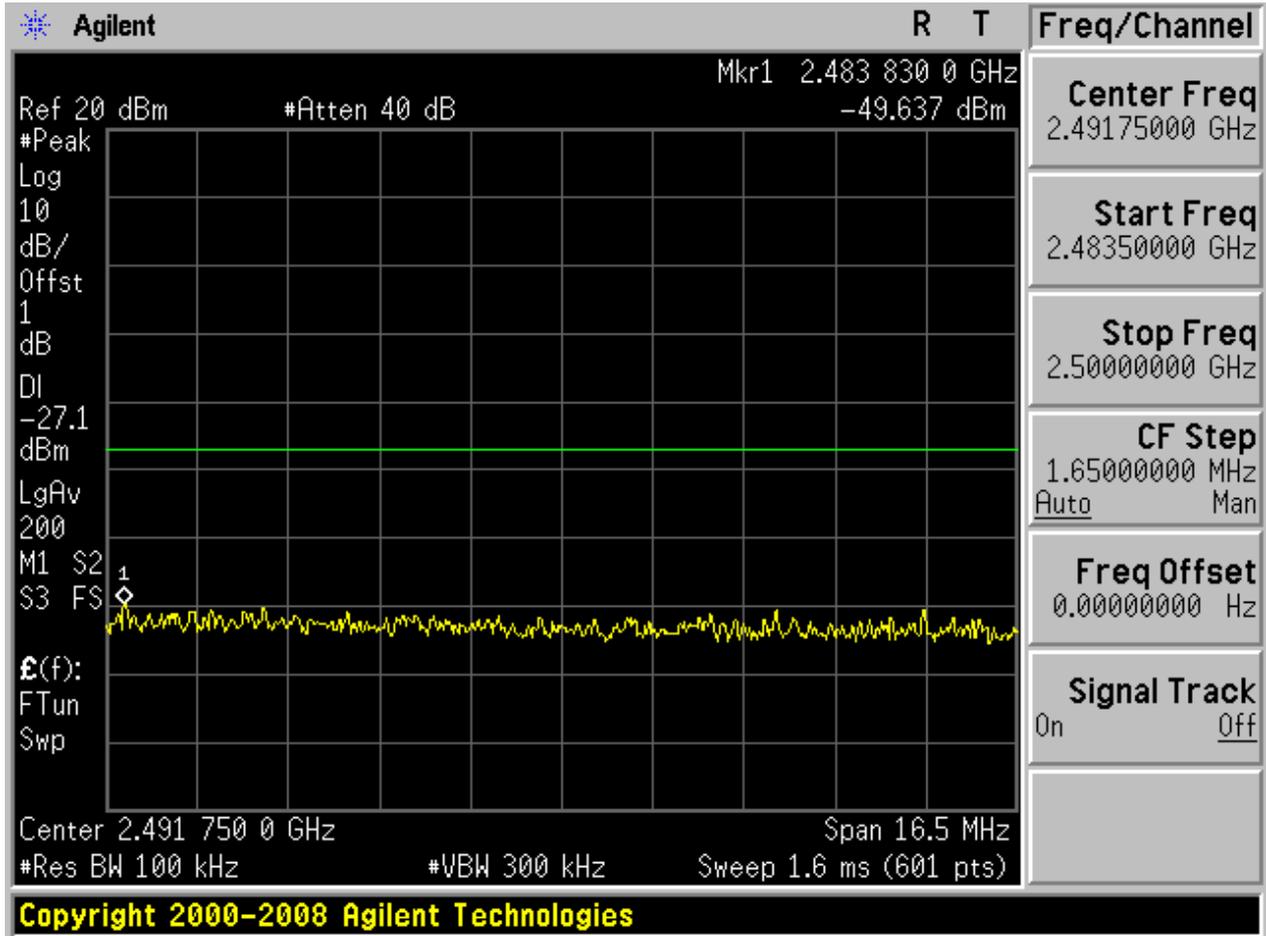
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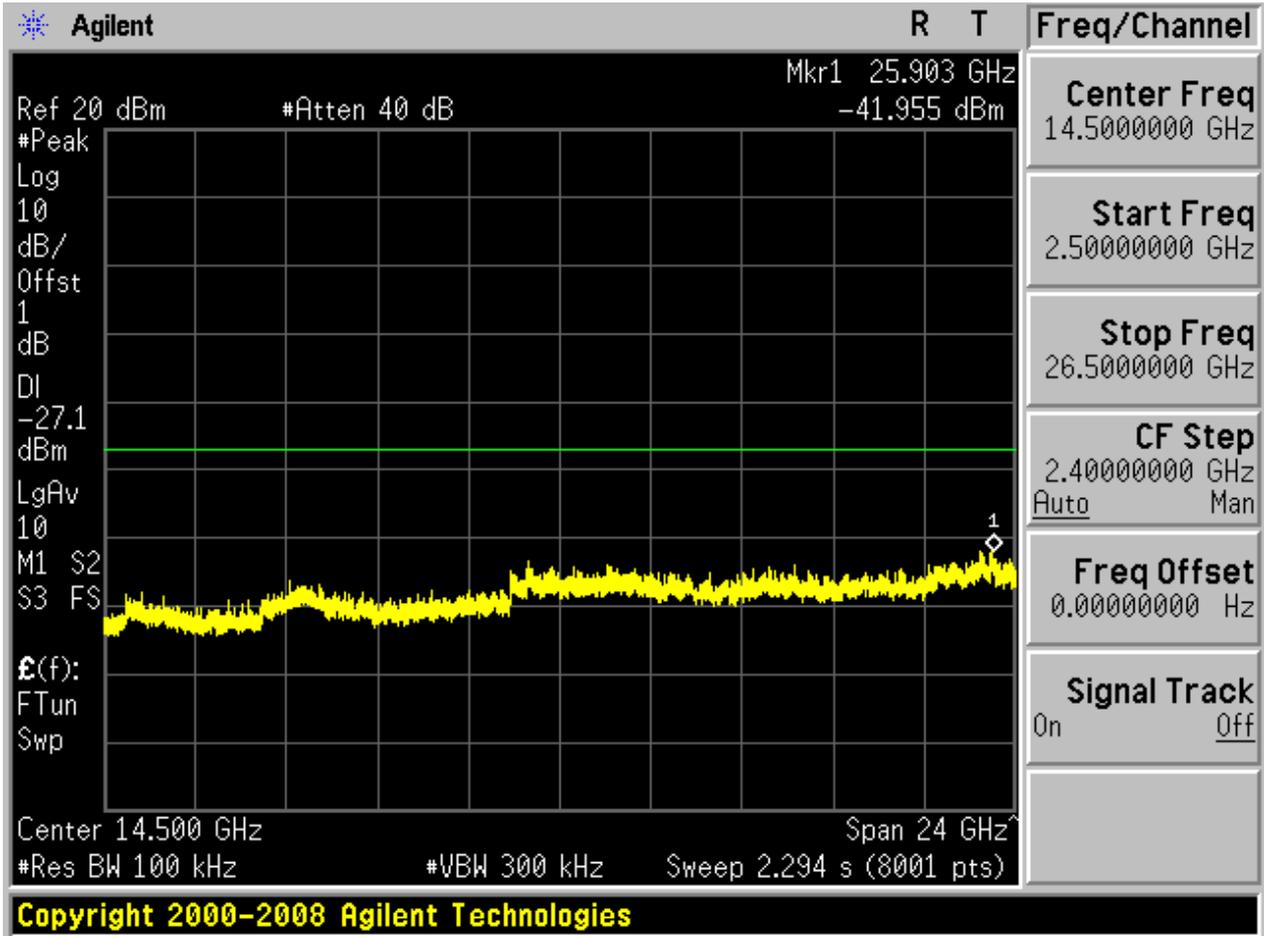








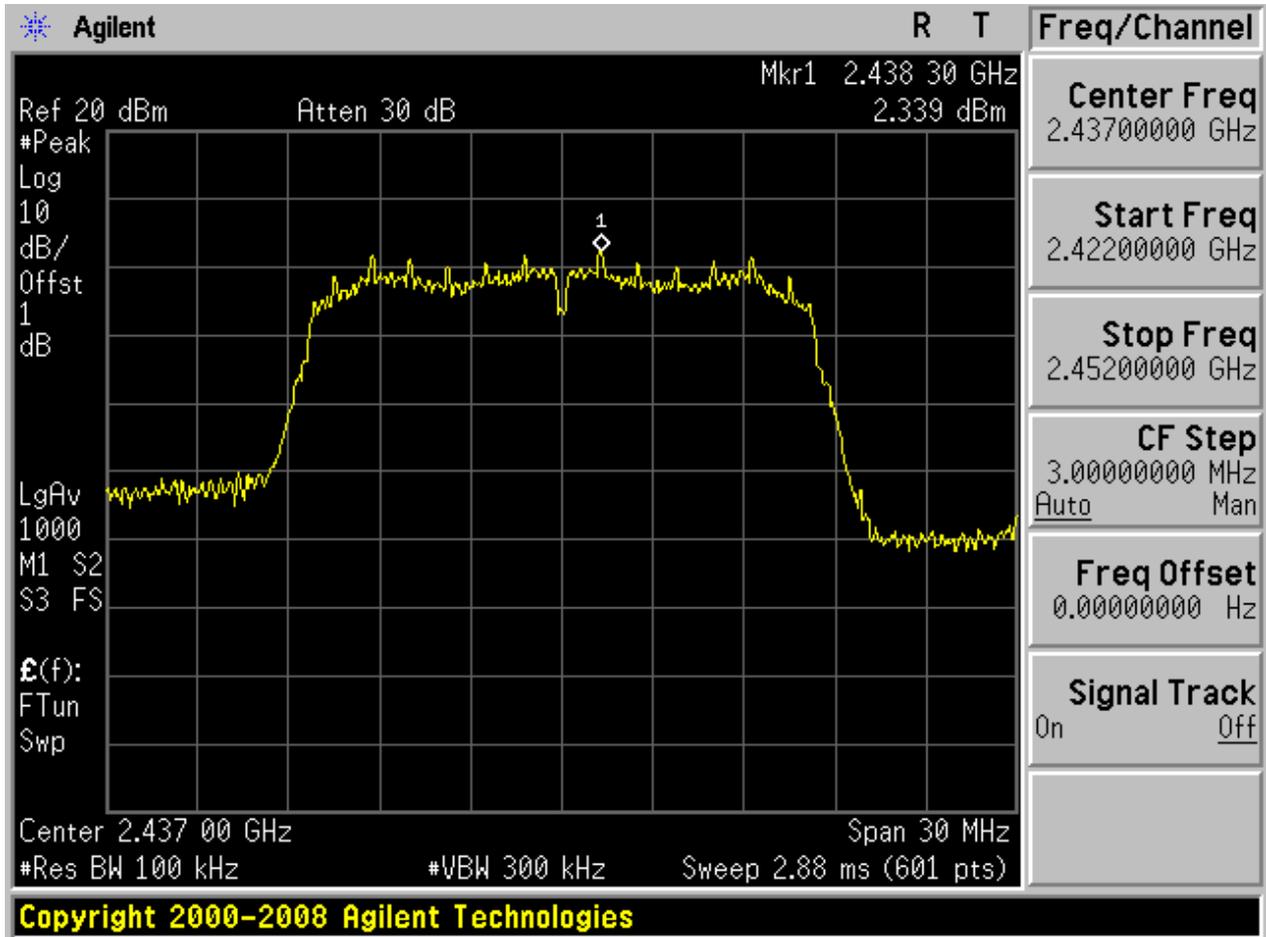






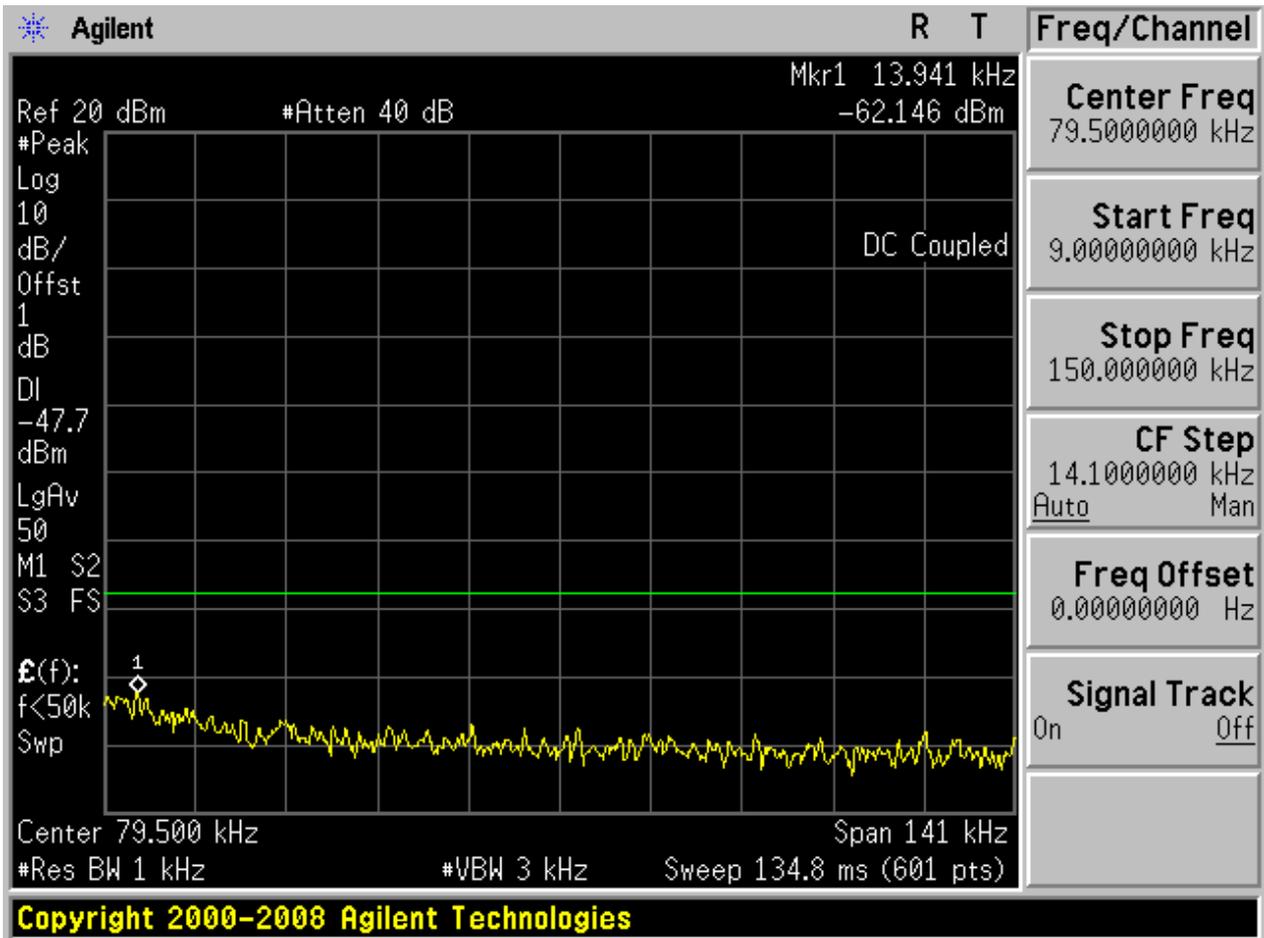
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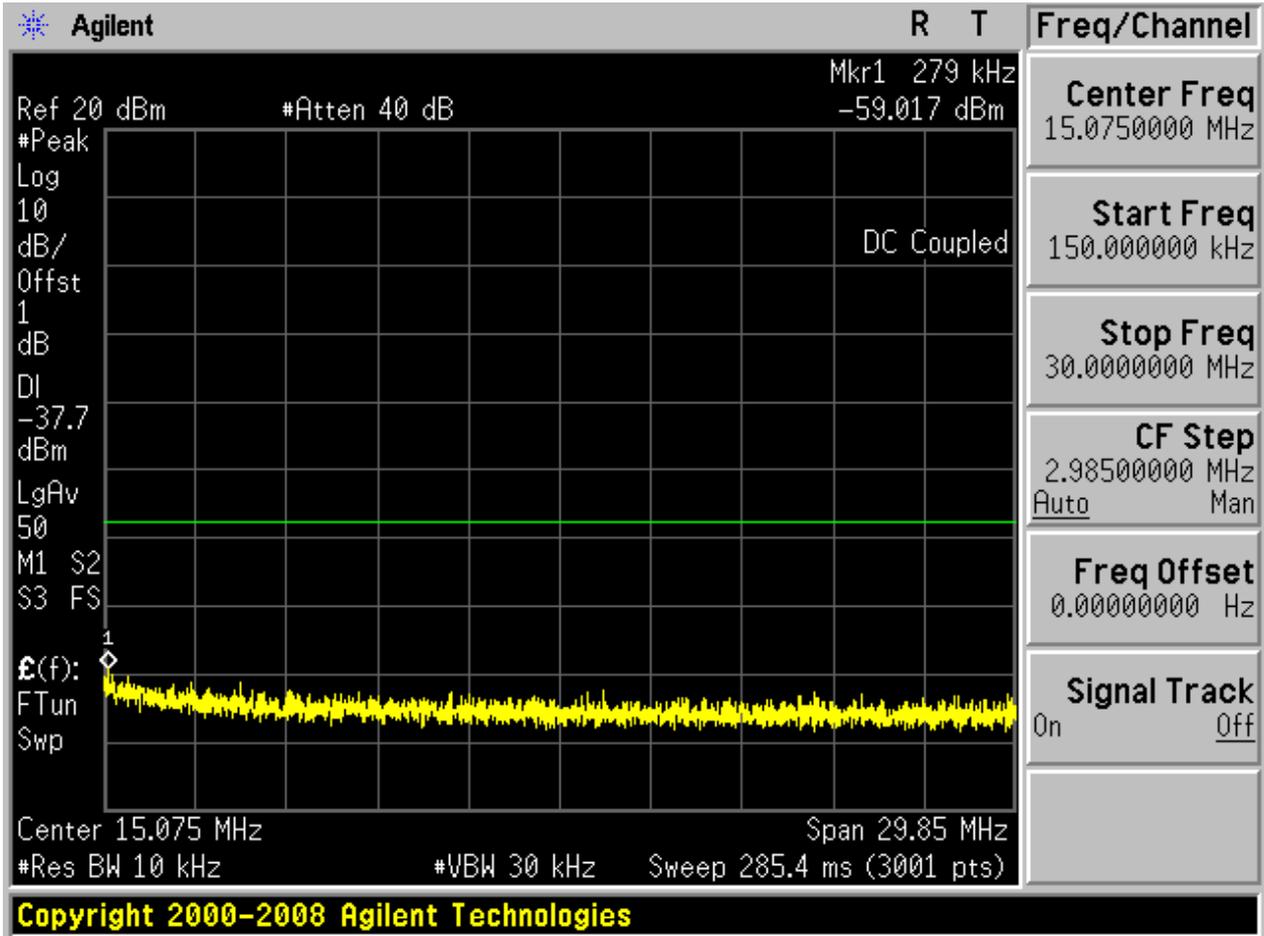
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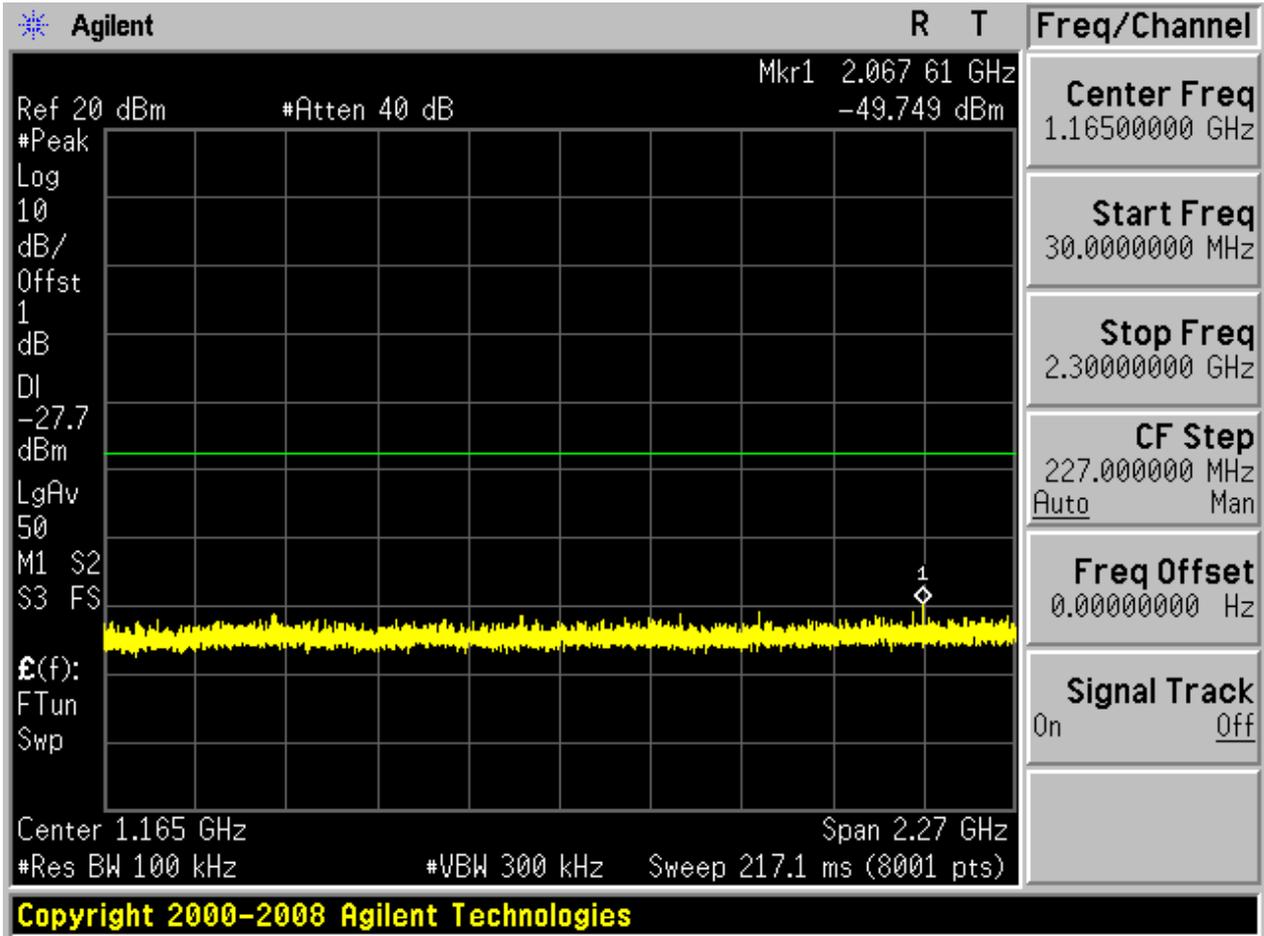


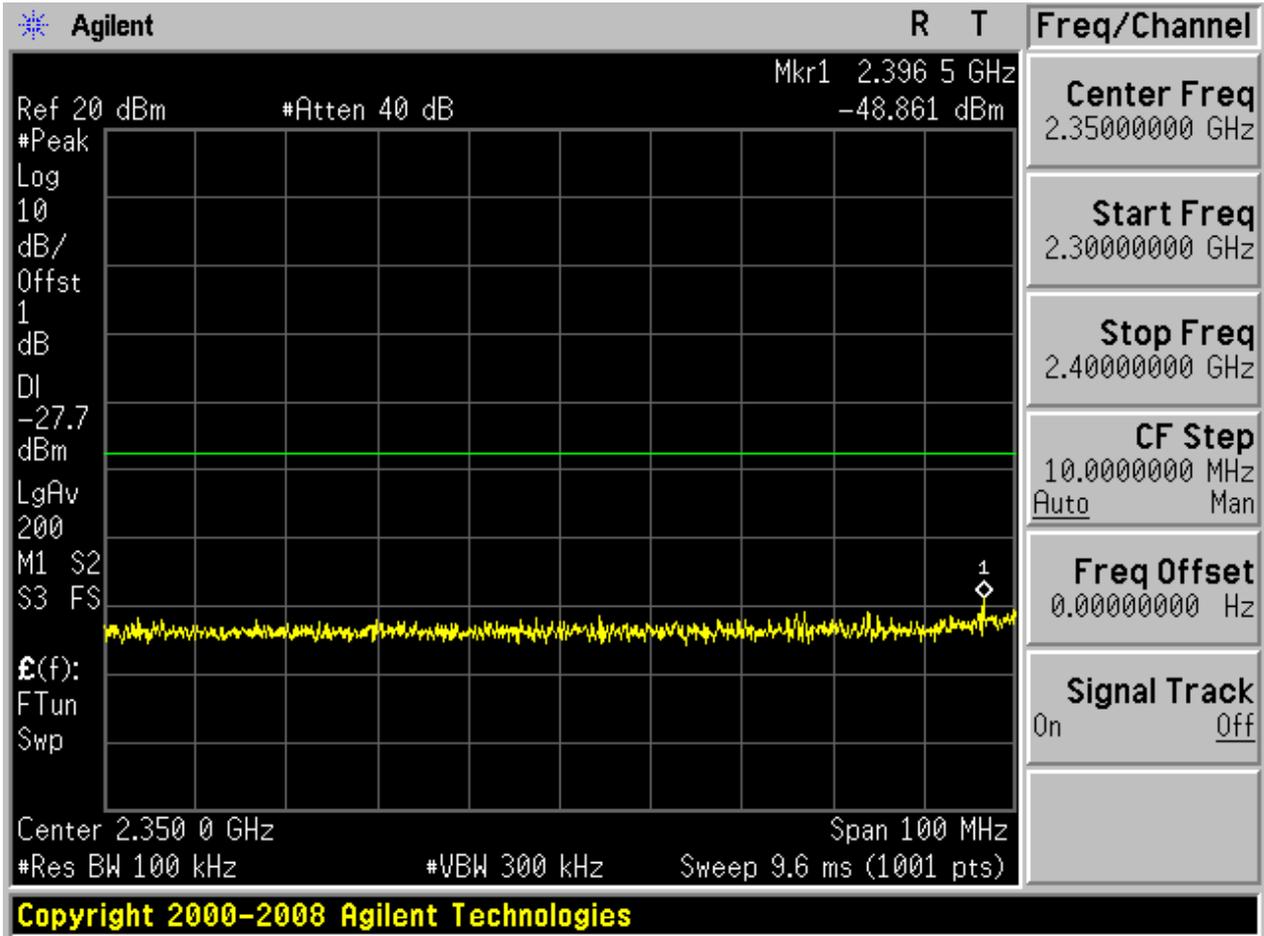


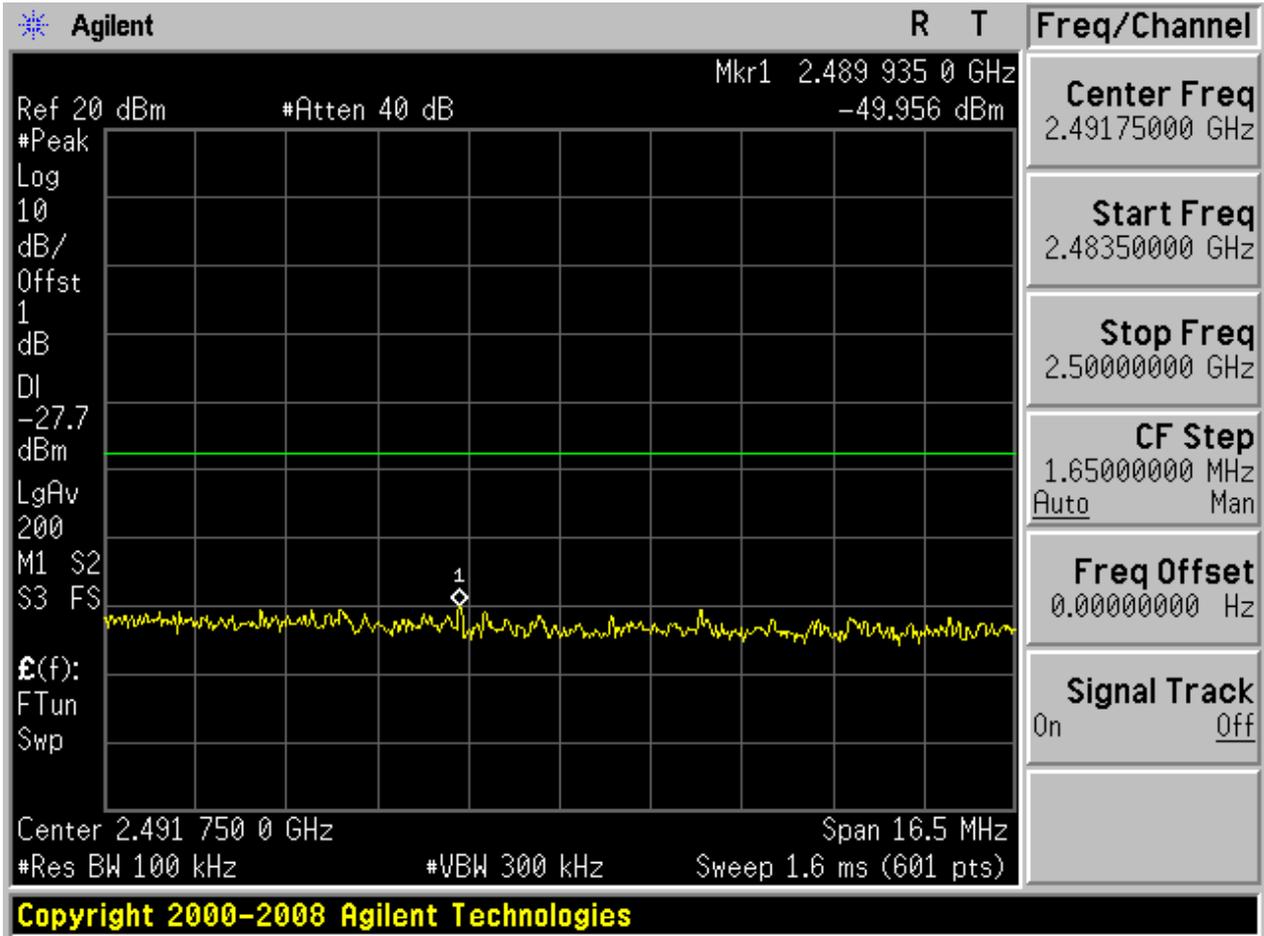
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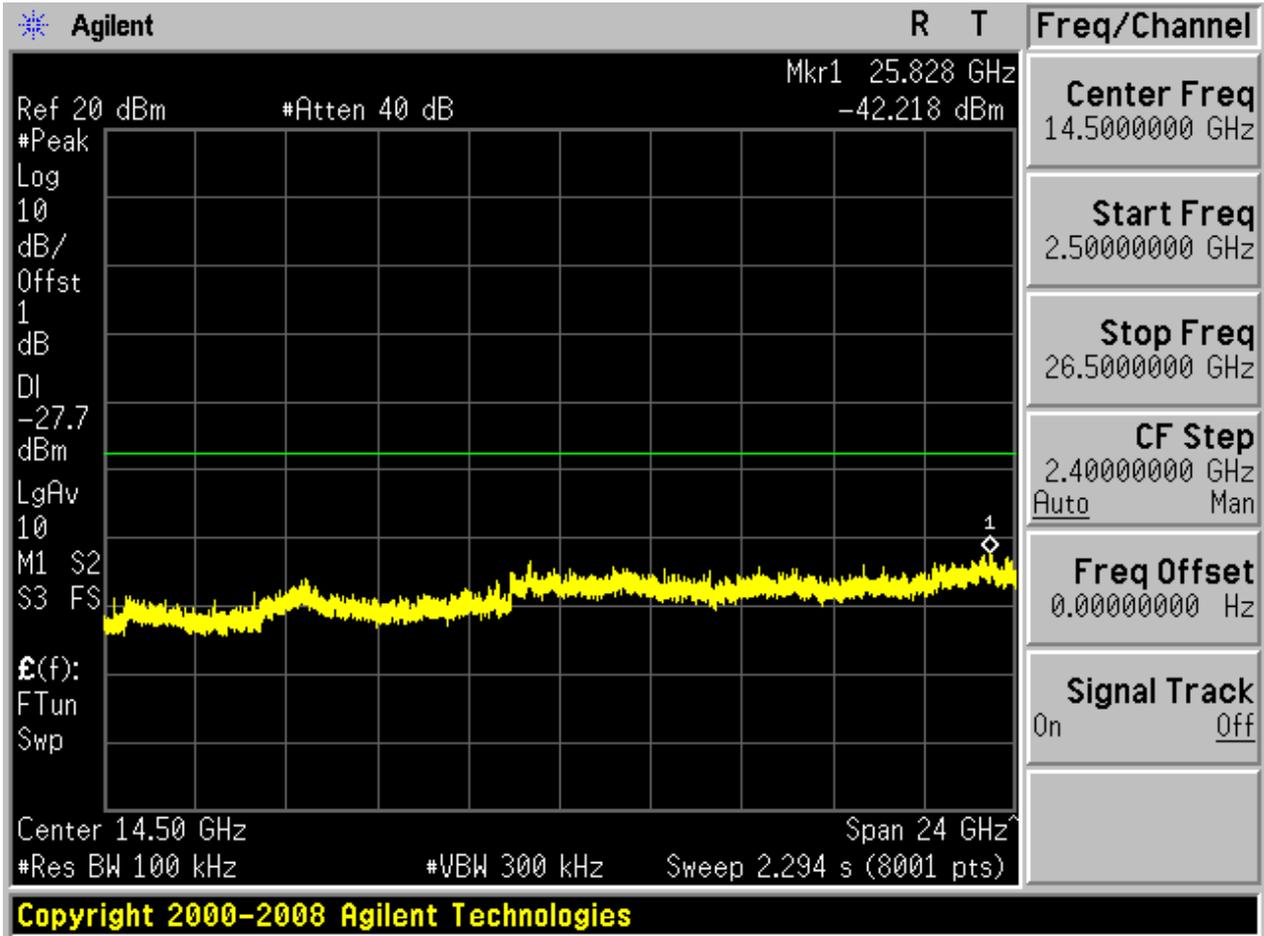








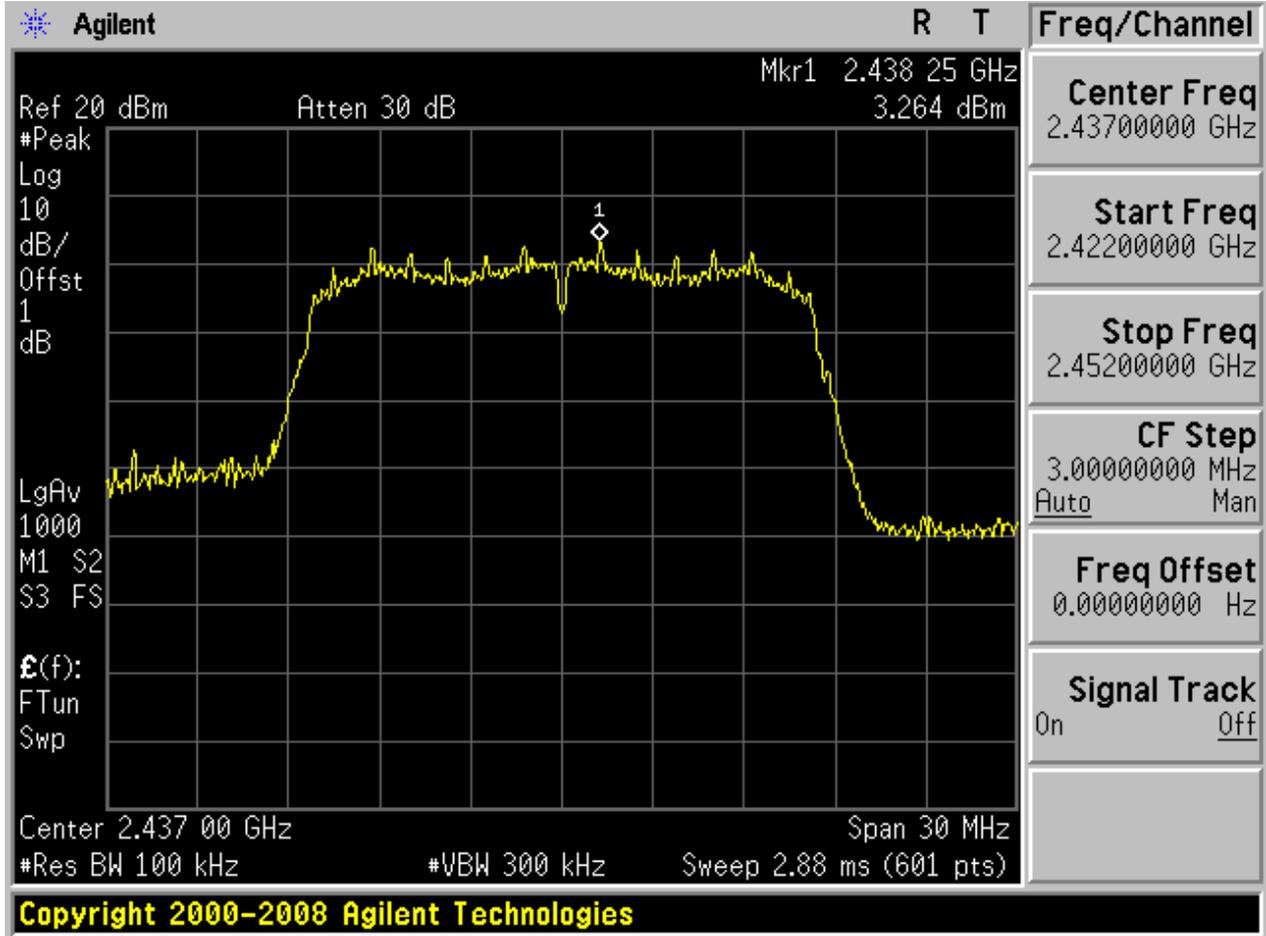






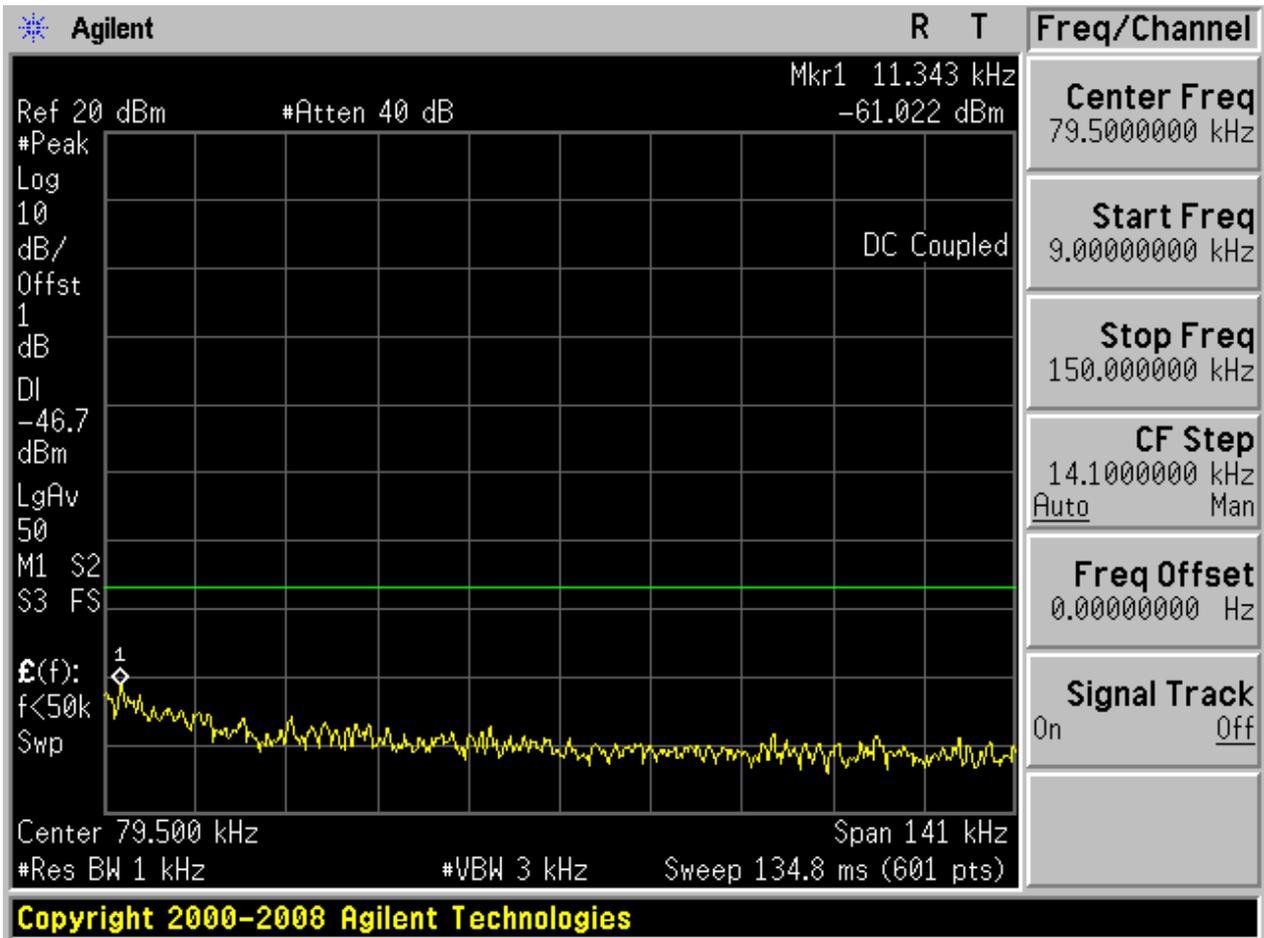
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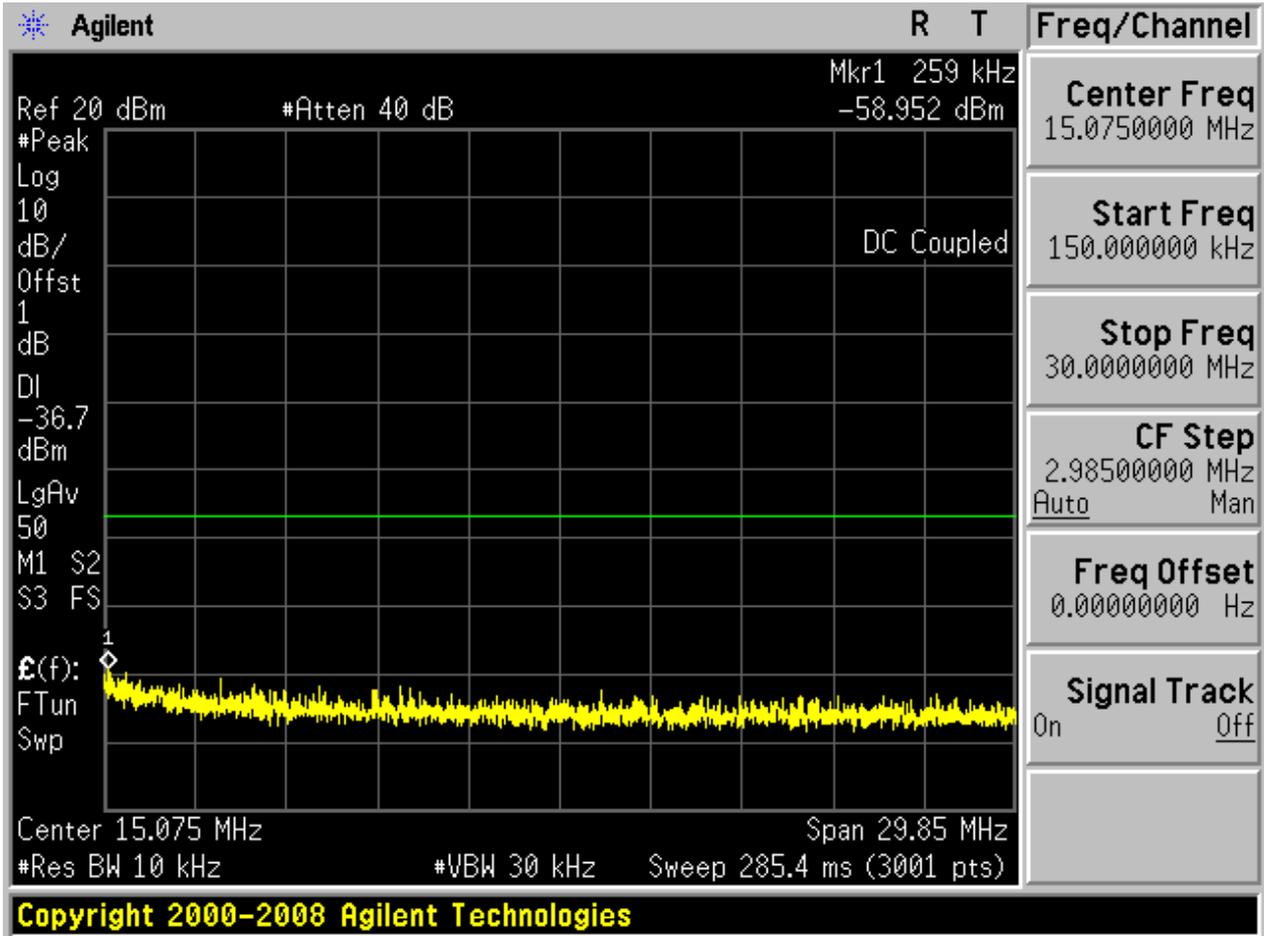
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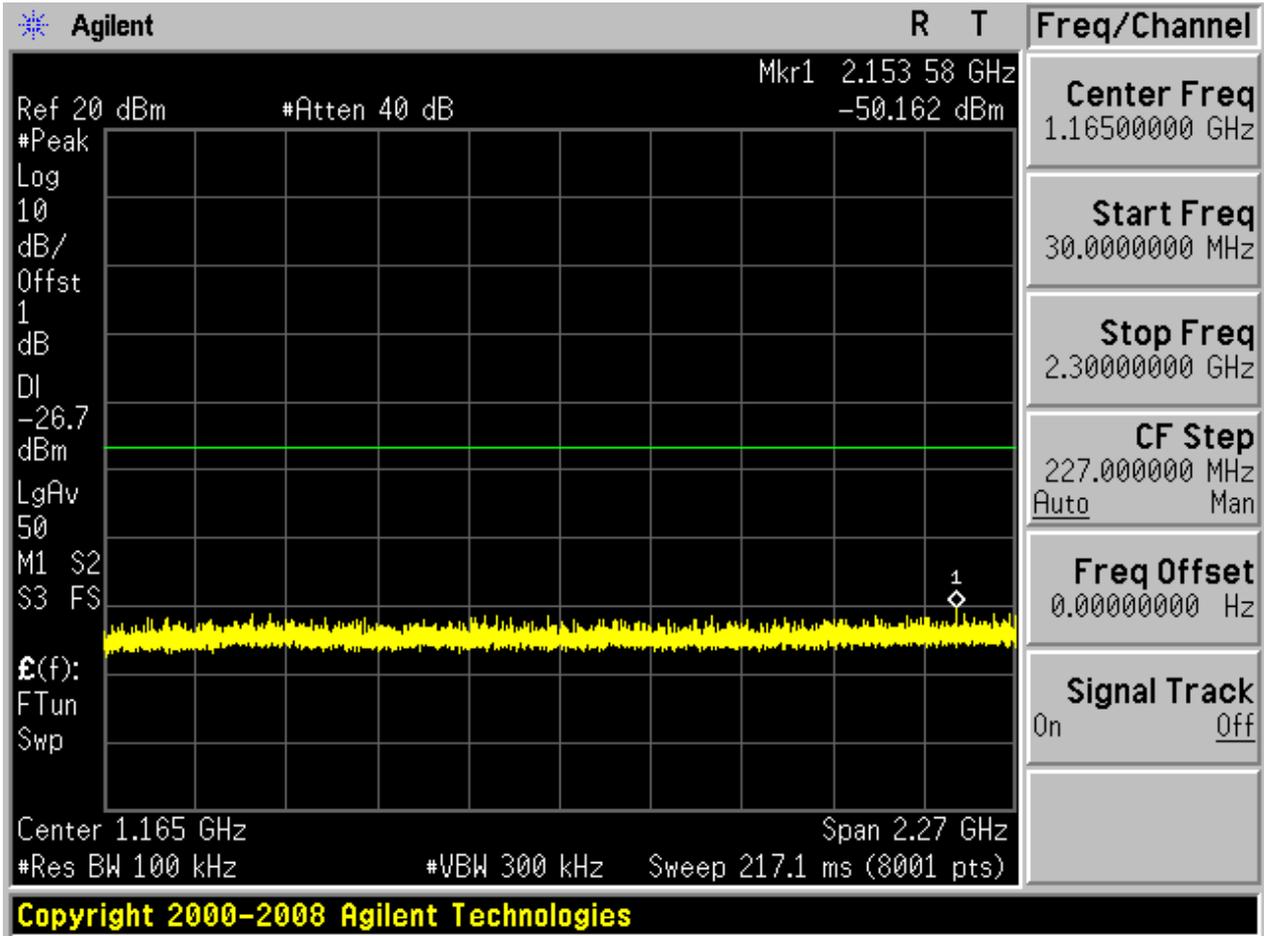


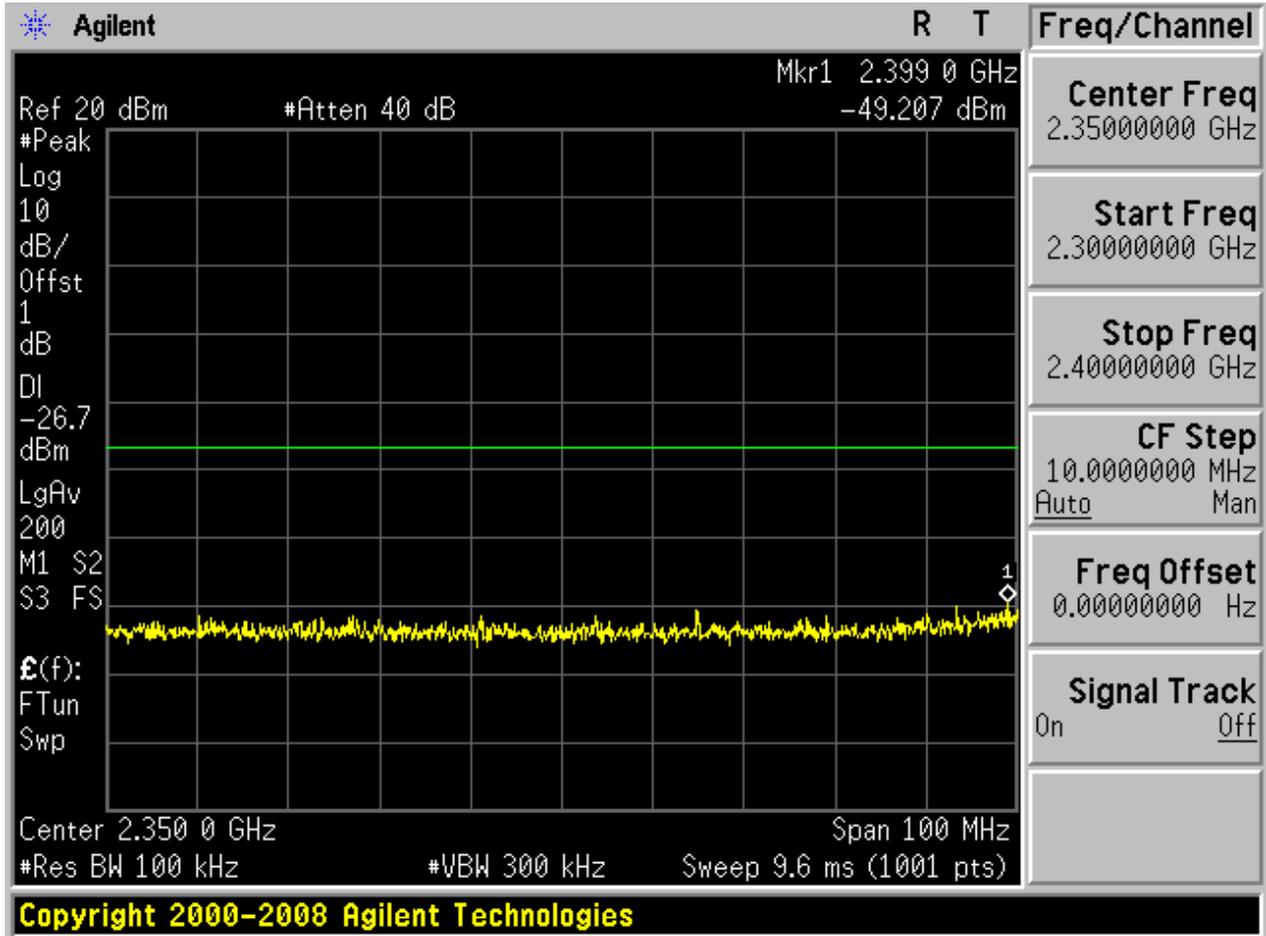


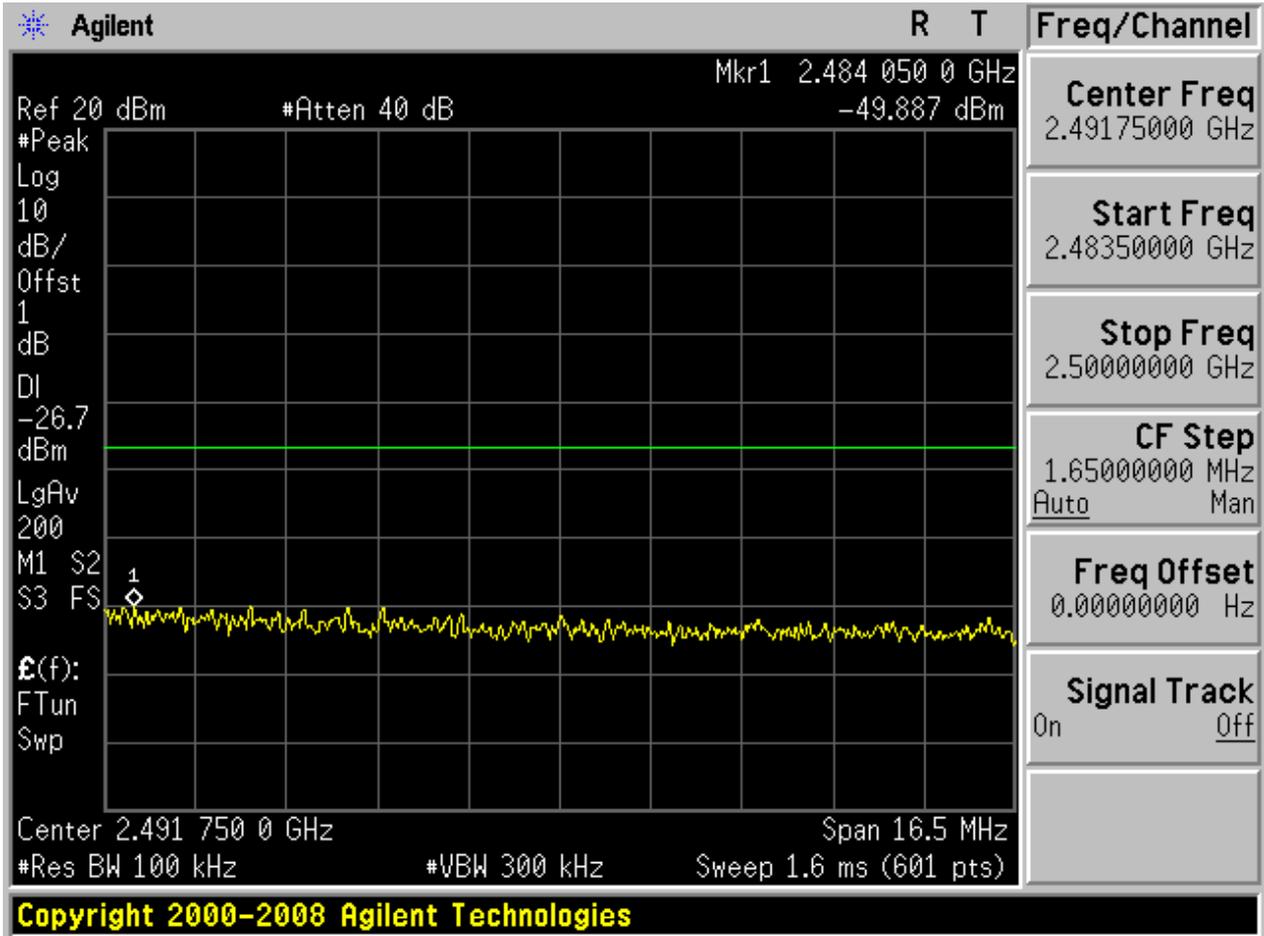
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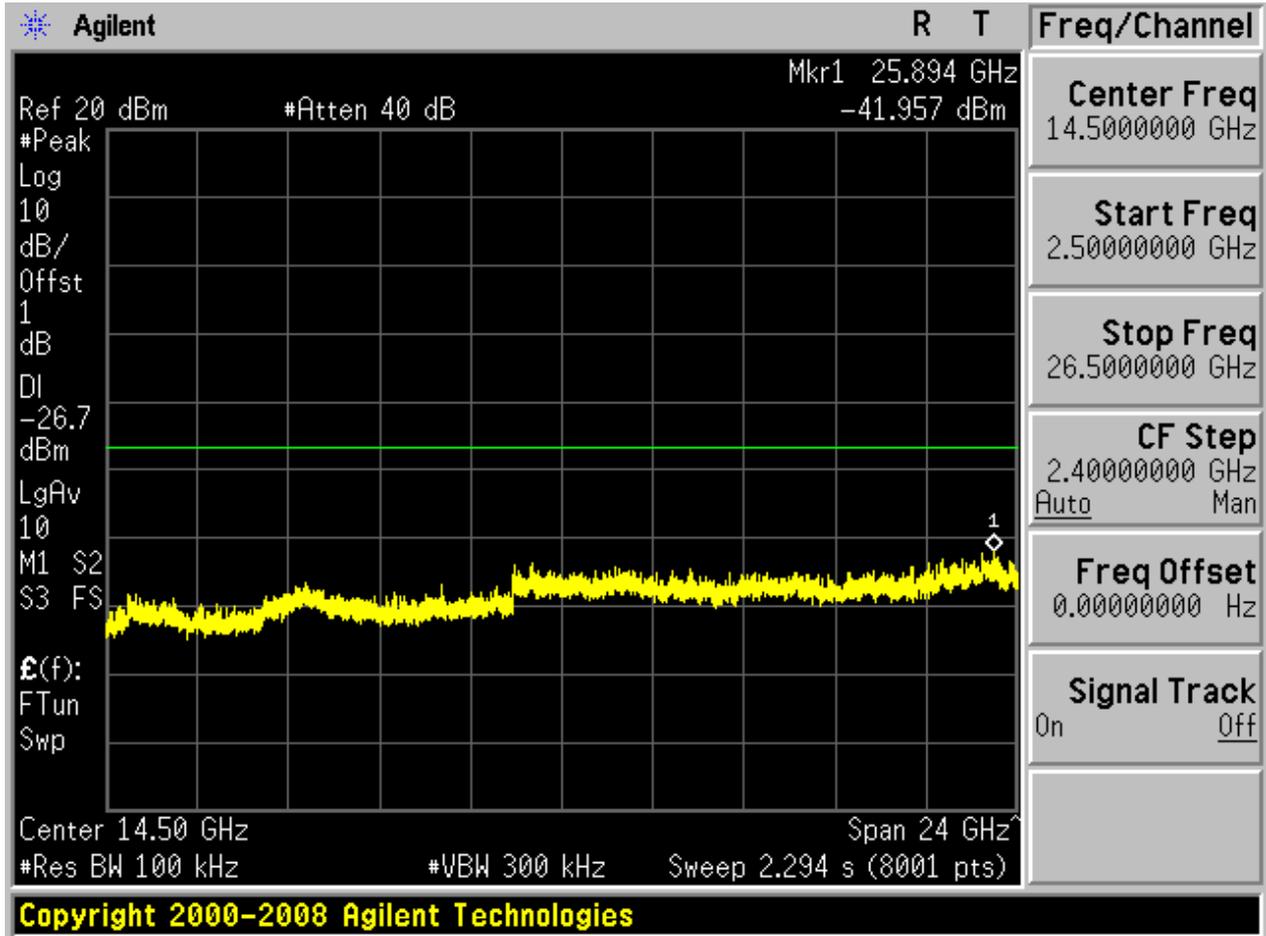








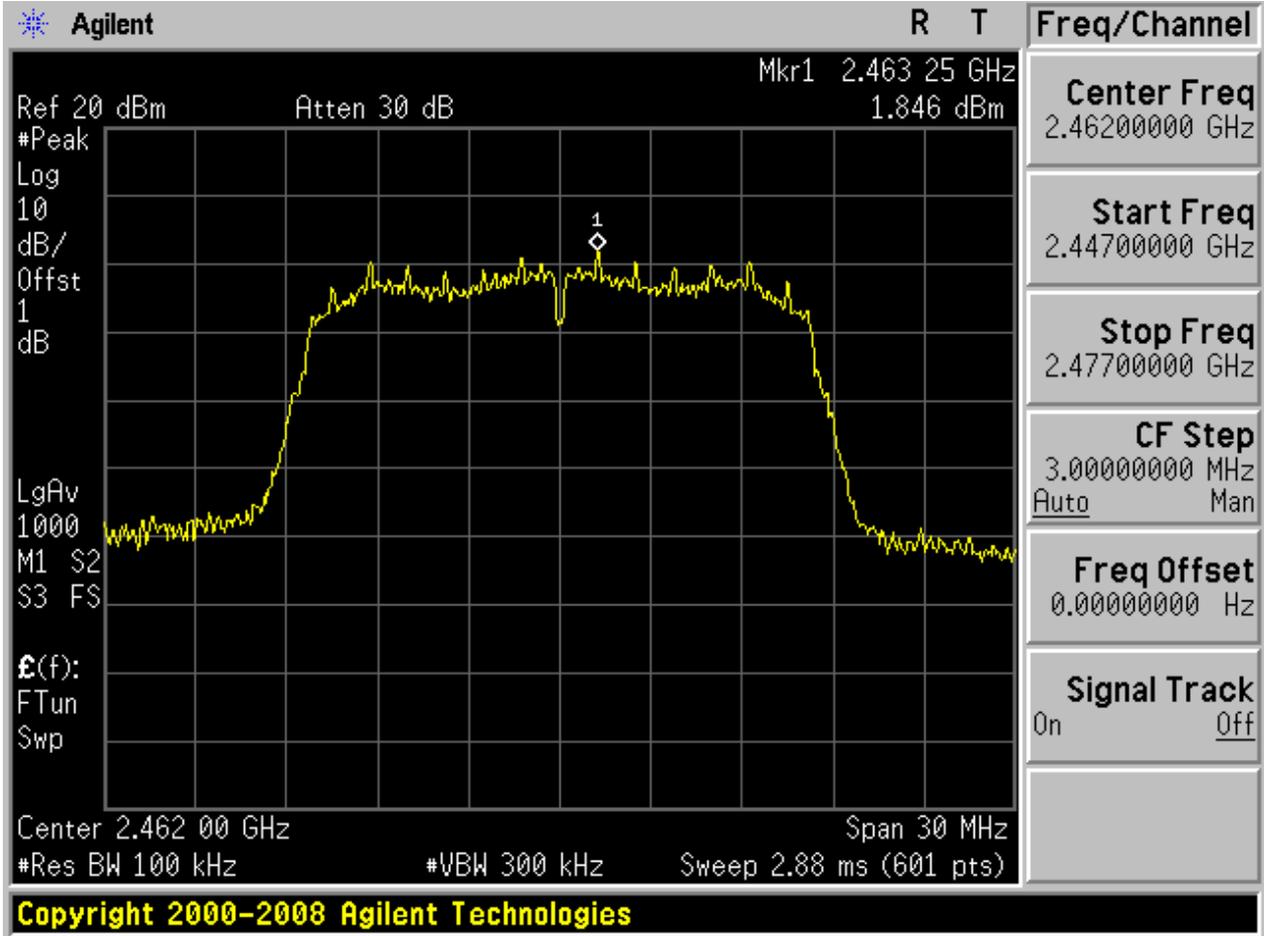






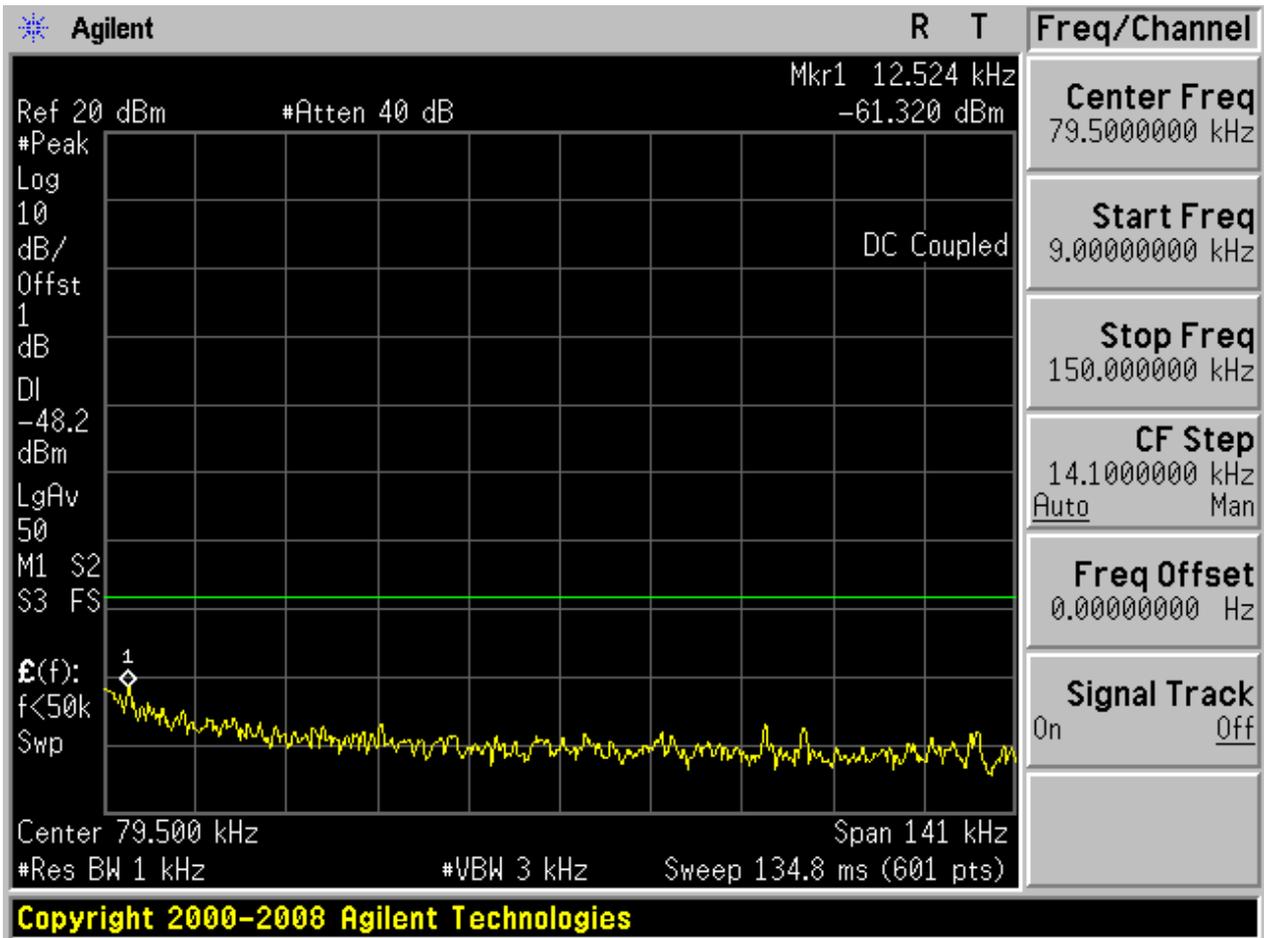
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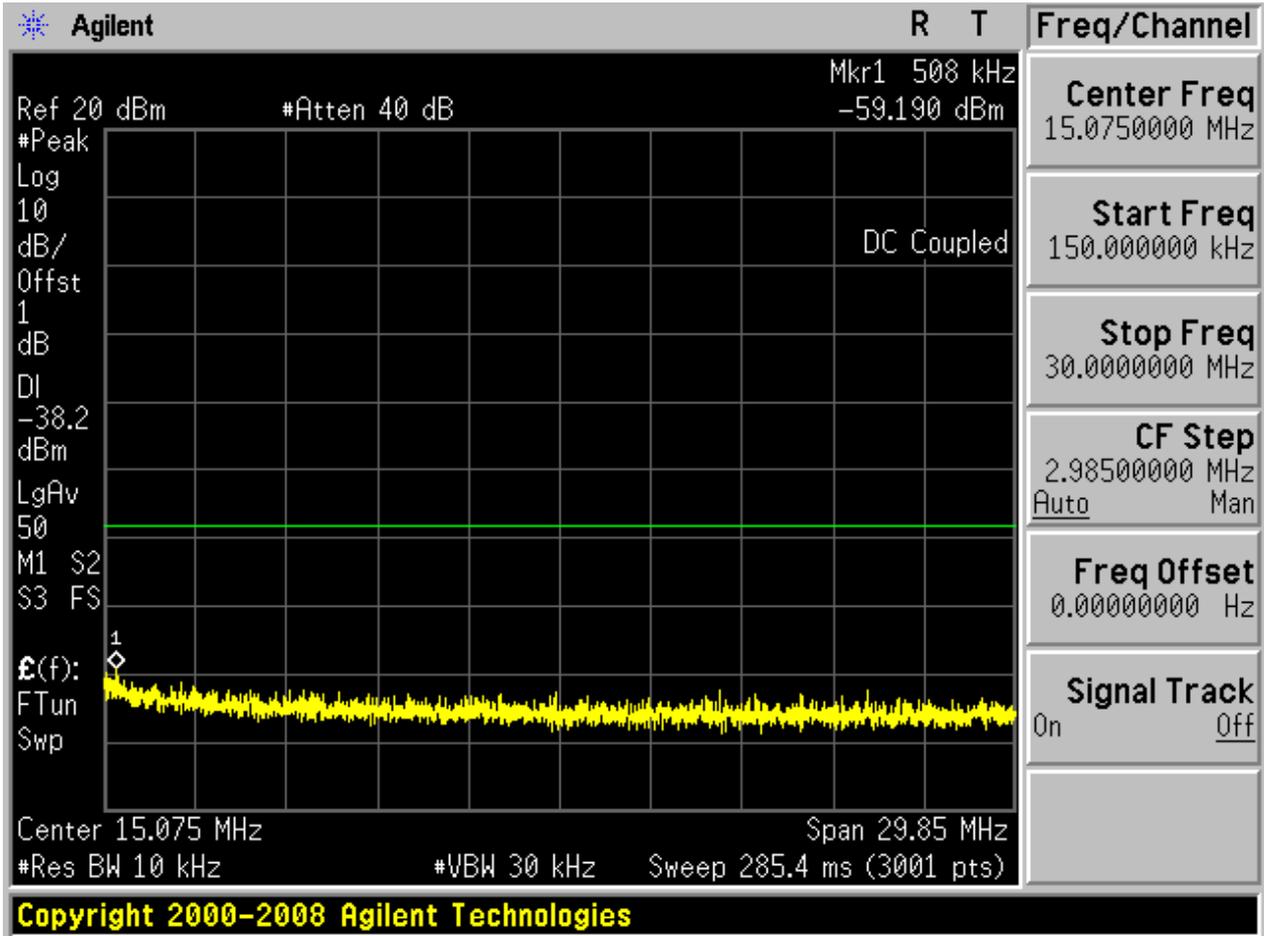
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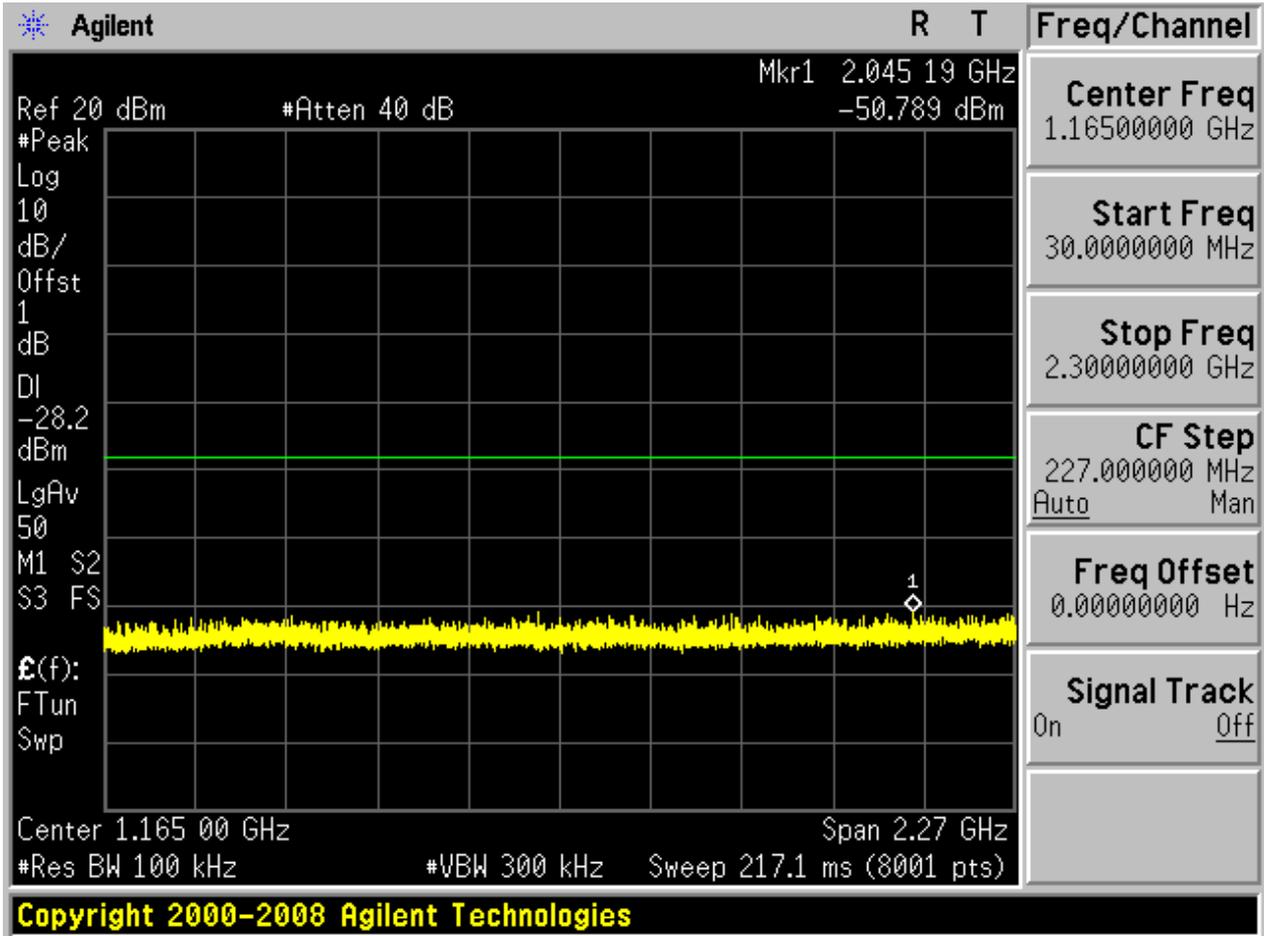


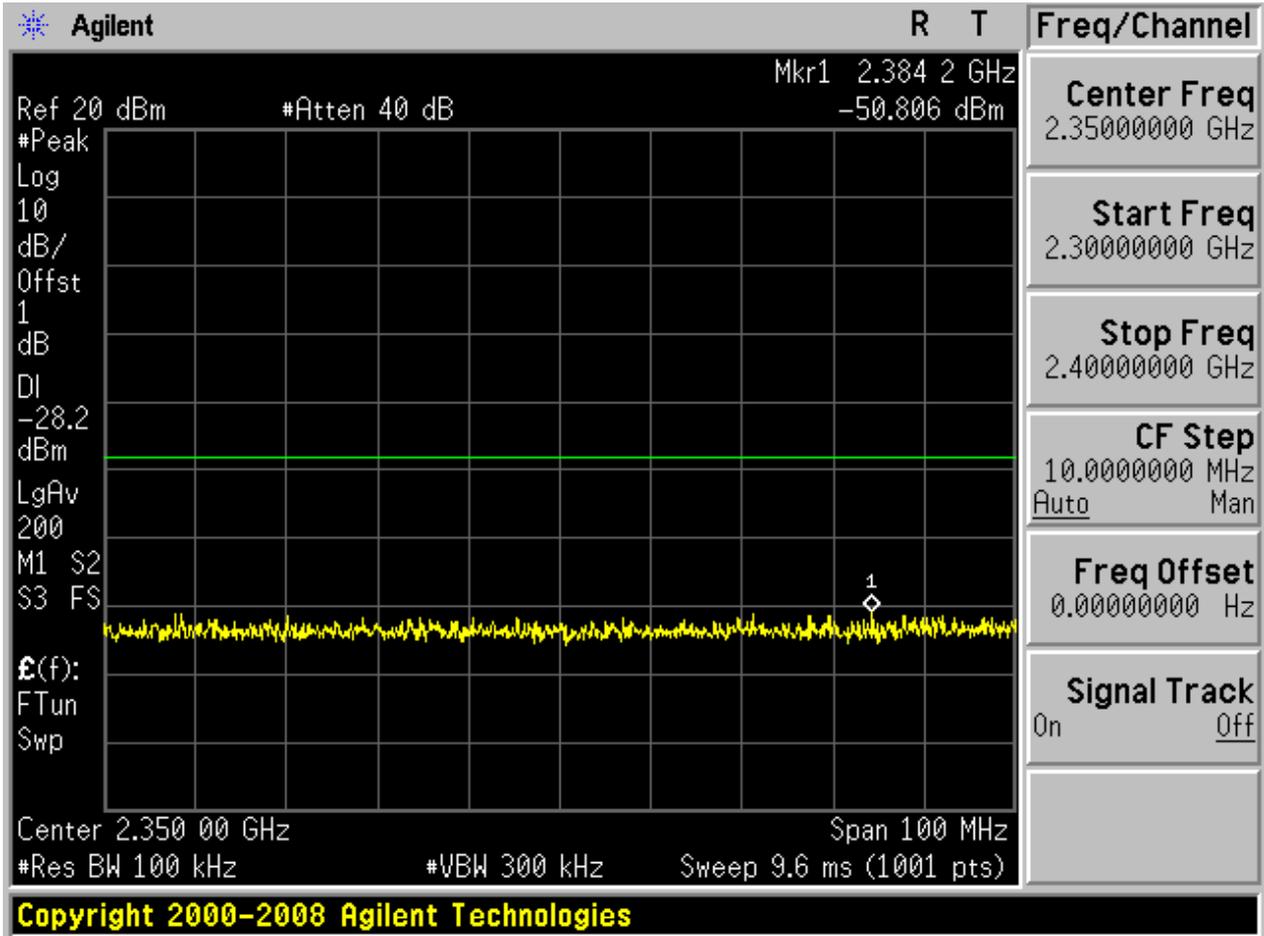


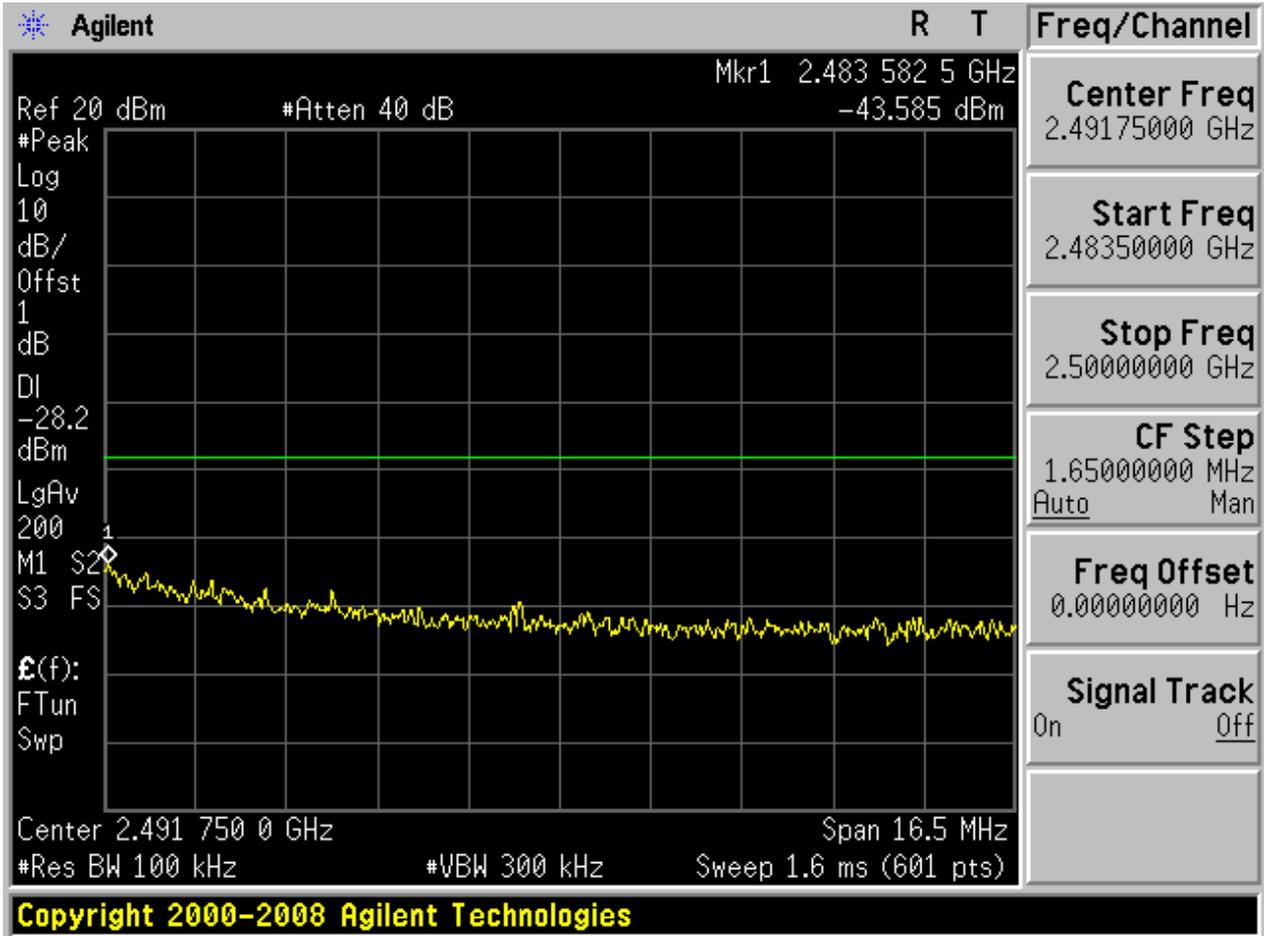
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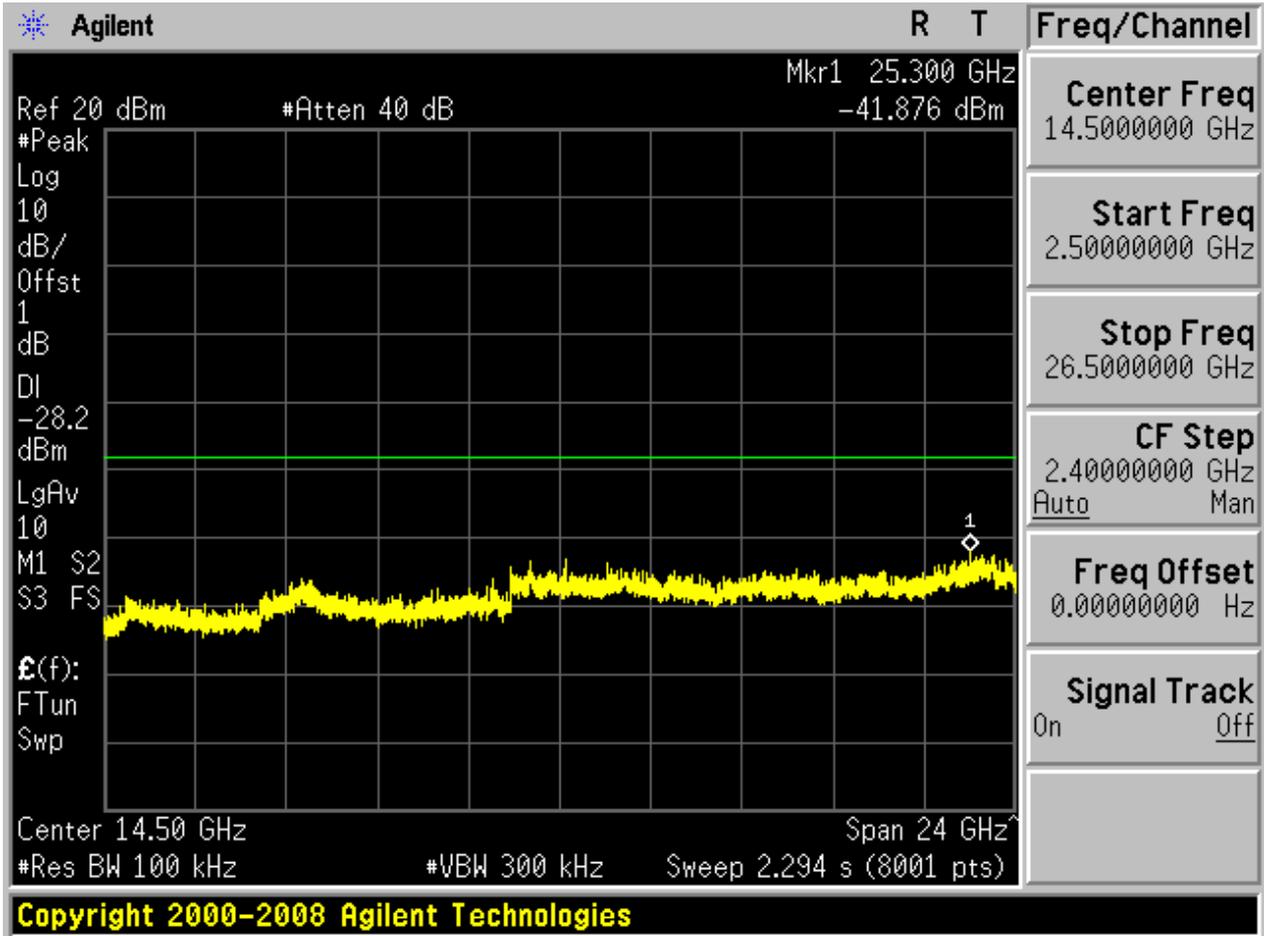








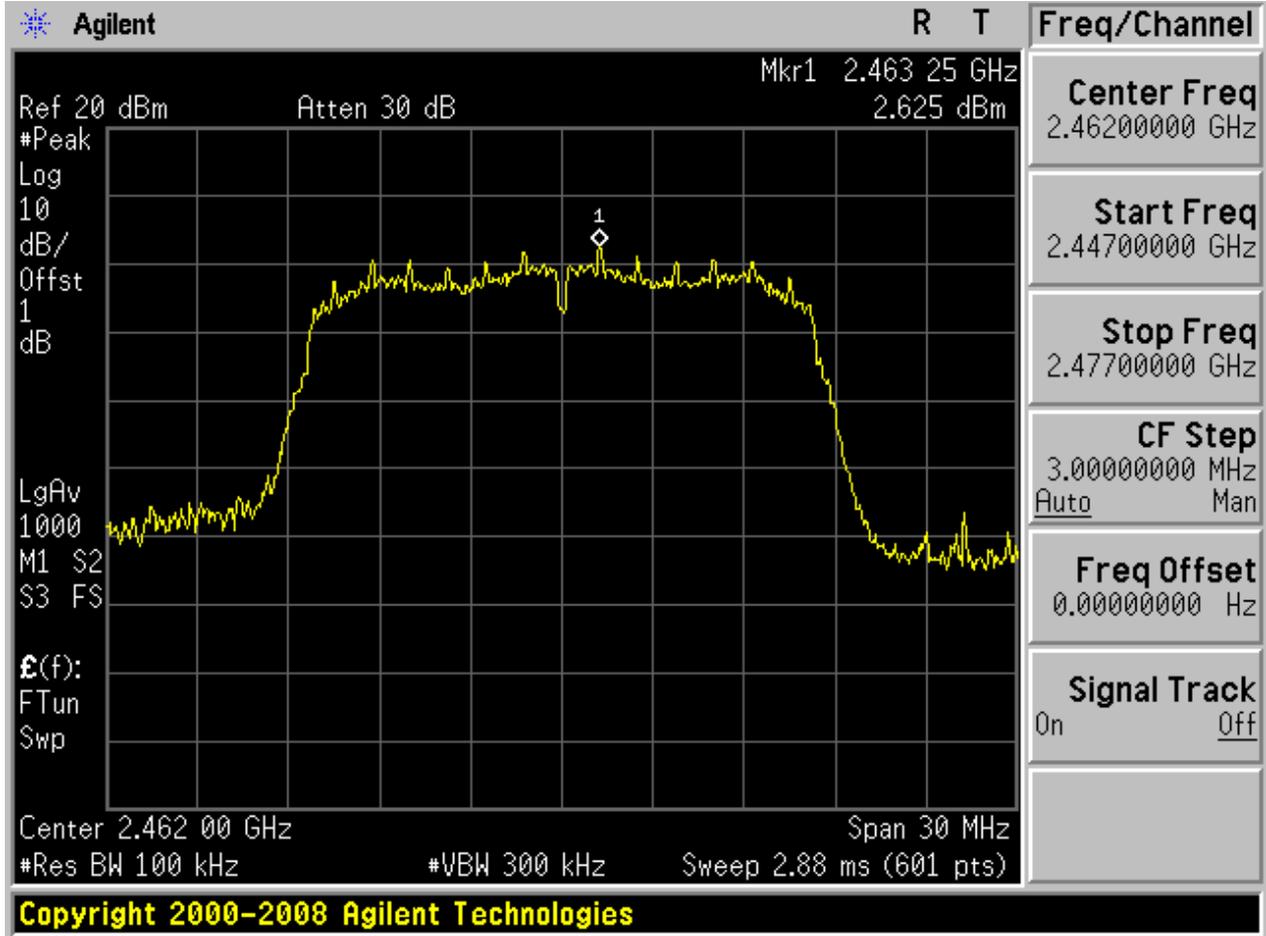






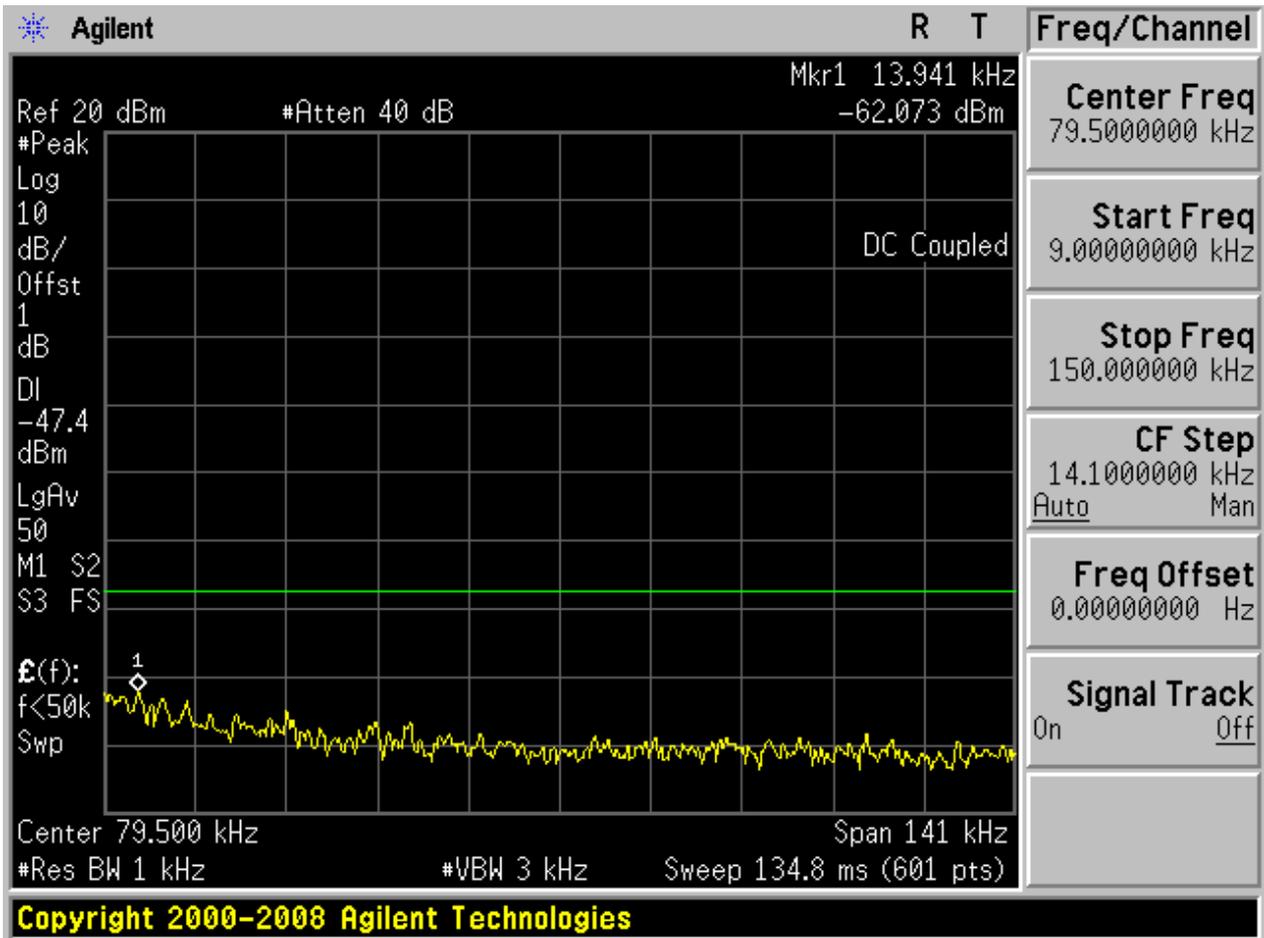
2.12 11G\_H@Ant 2

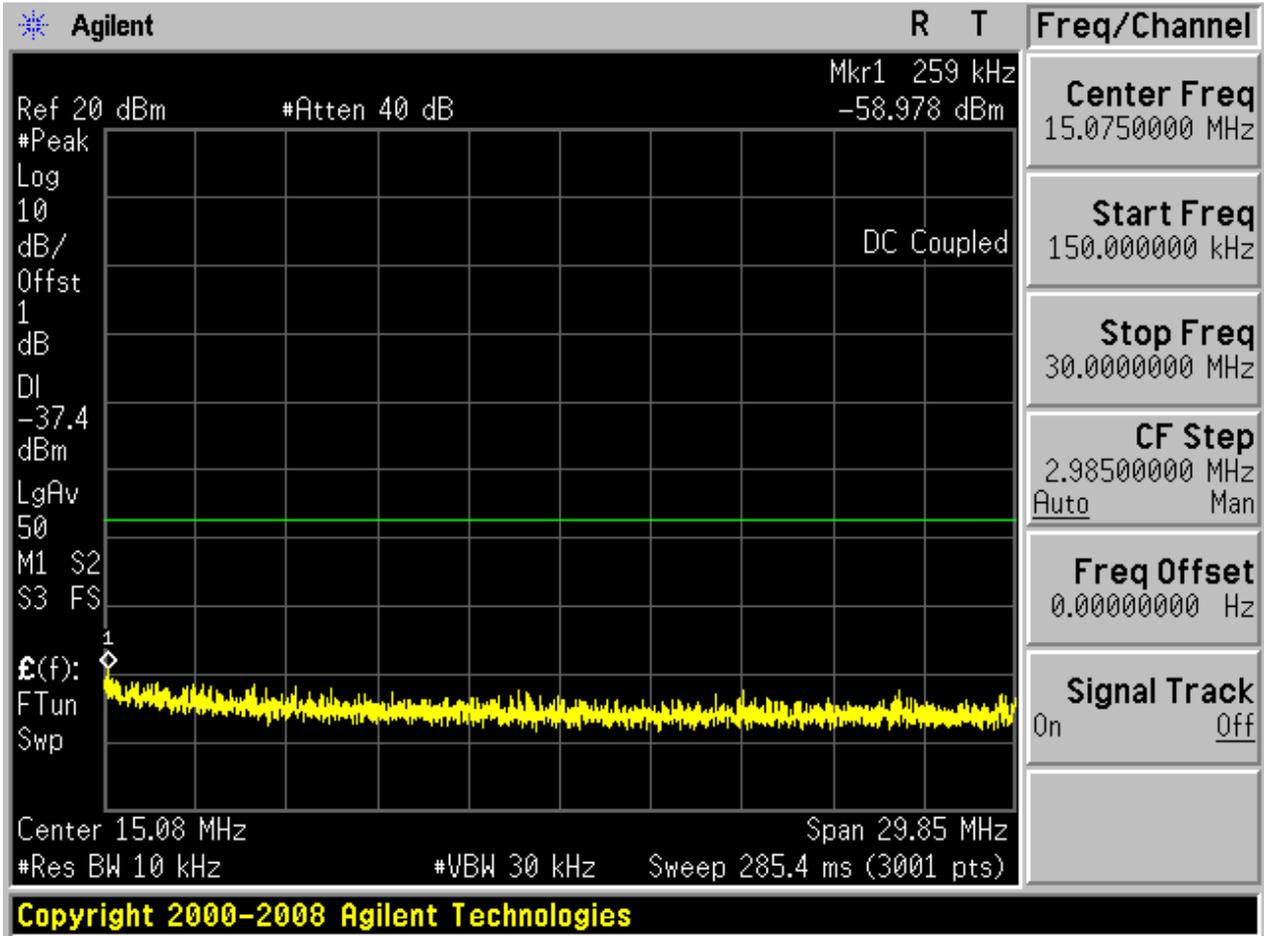
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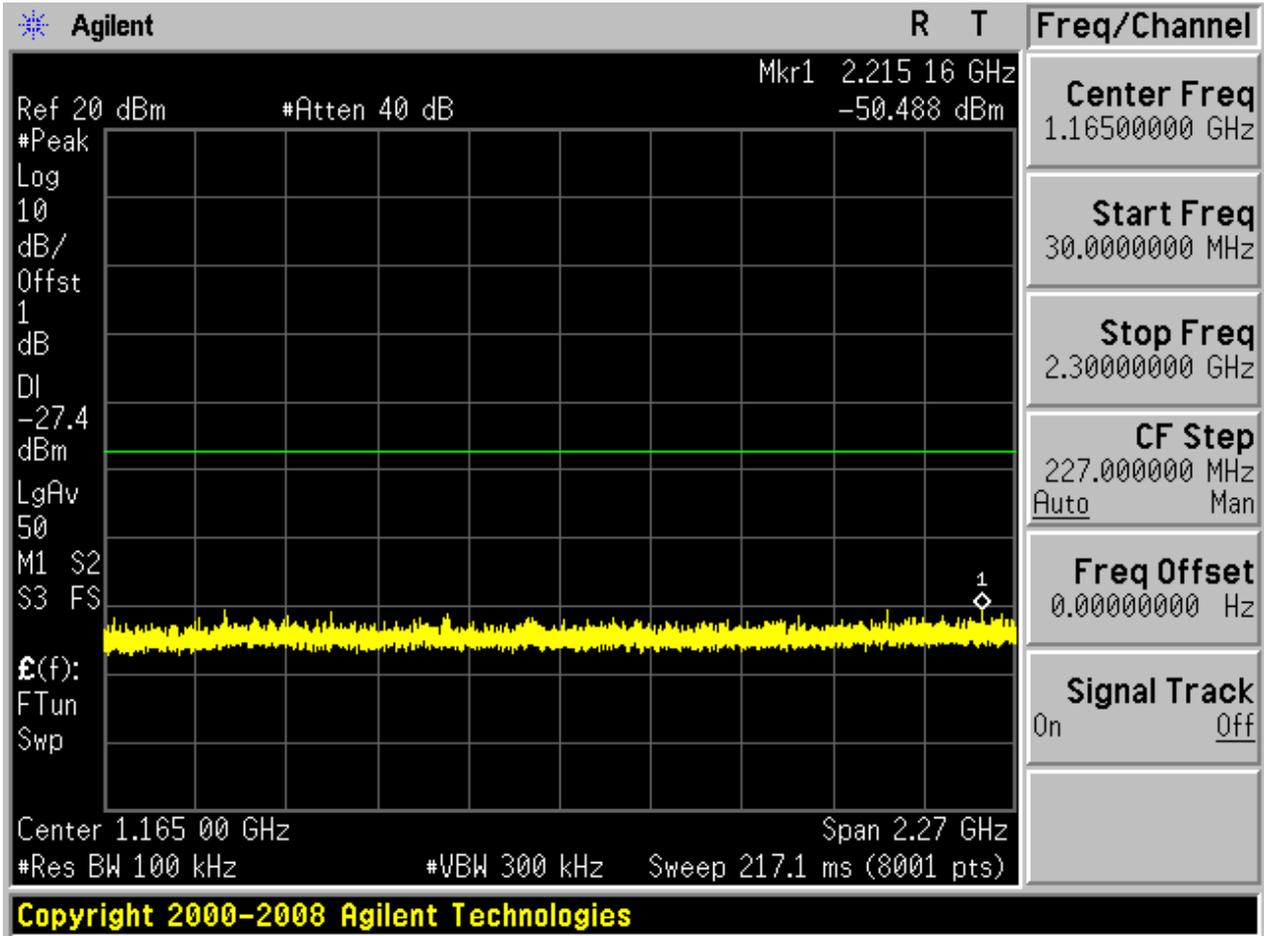


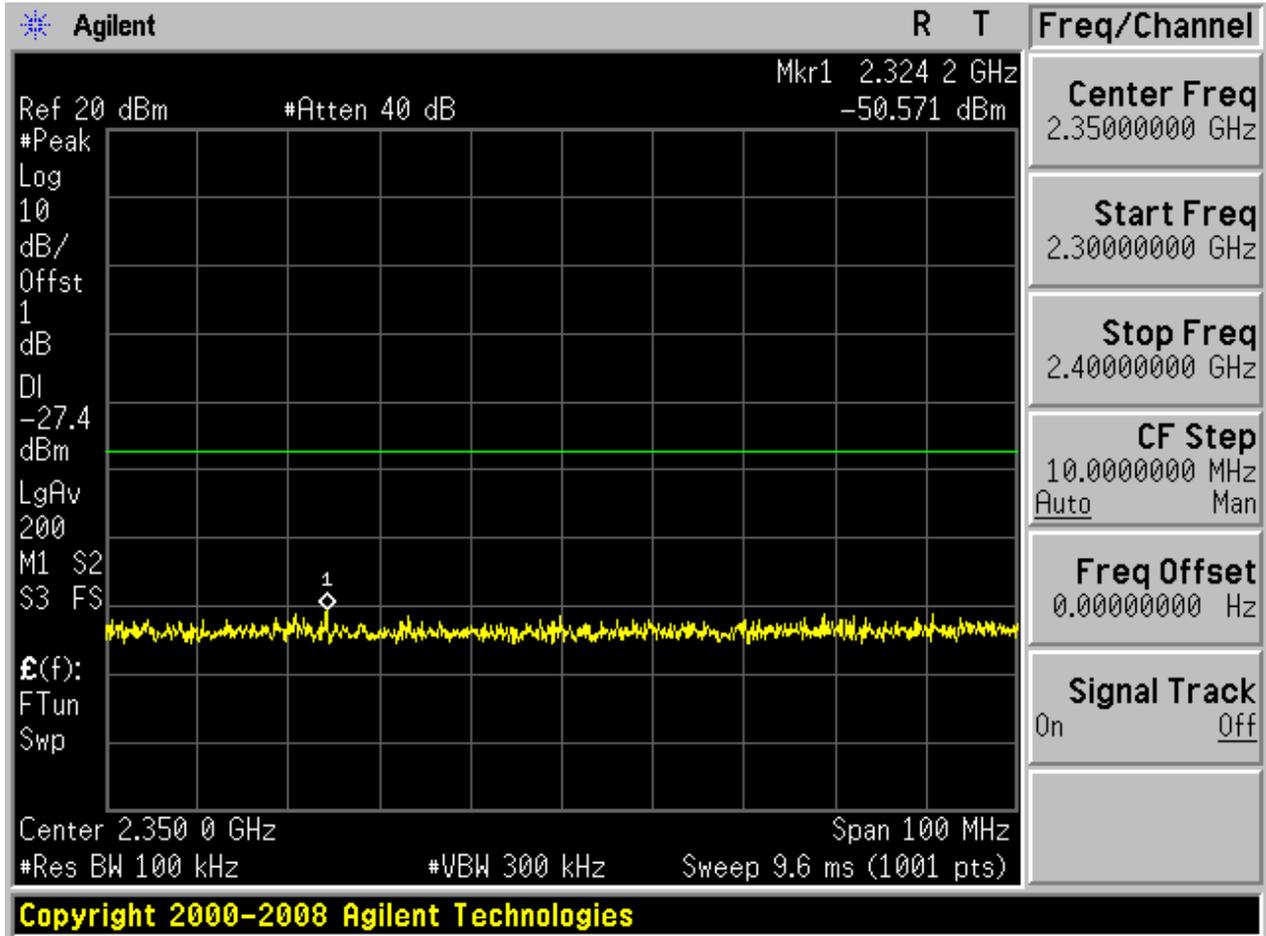


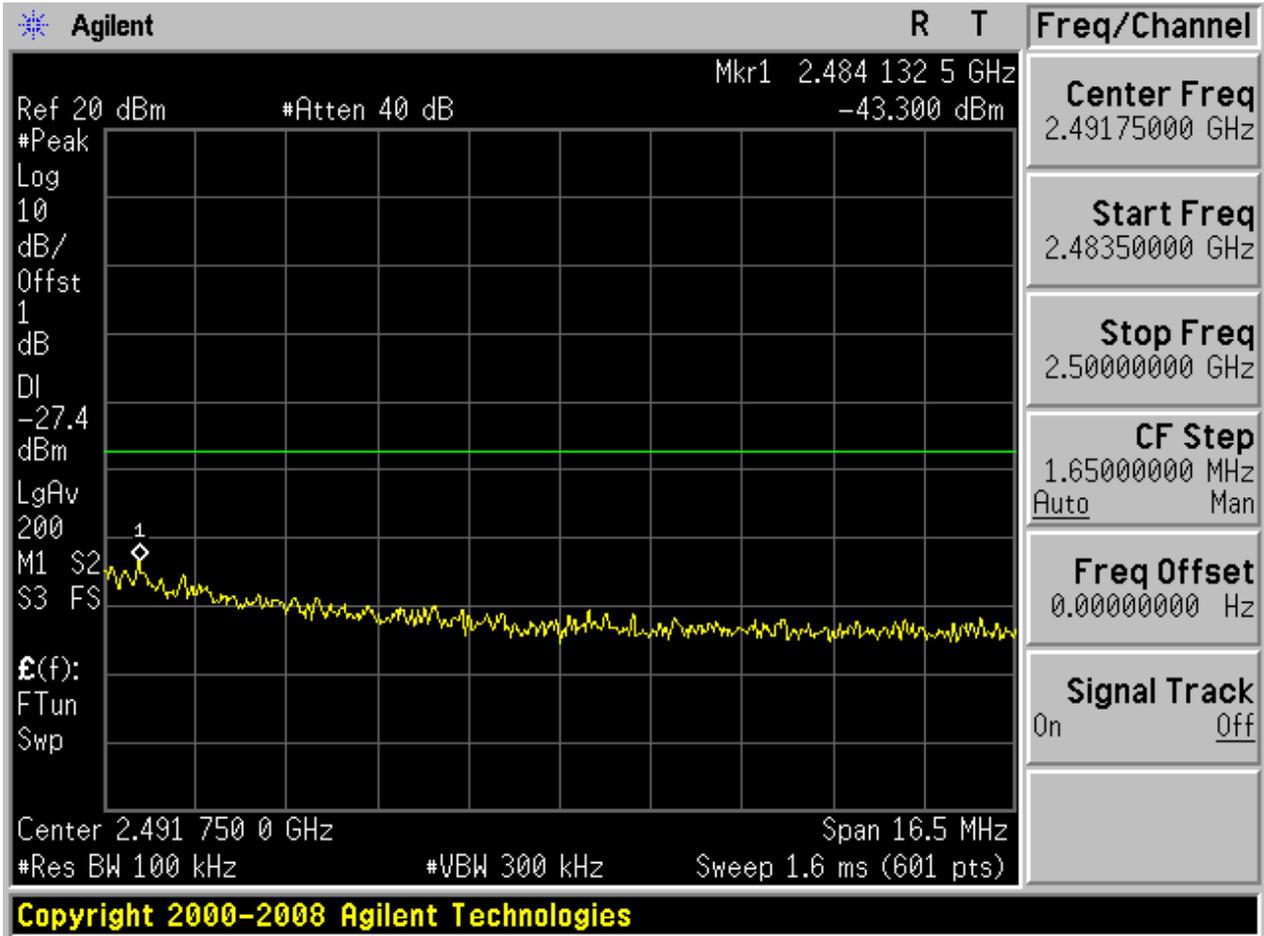
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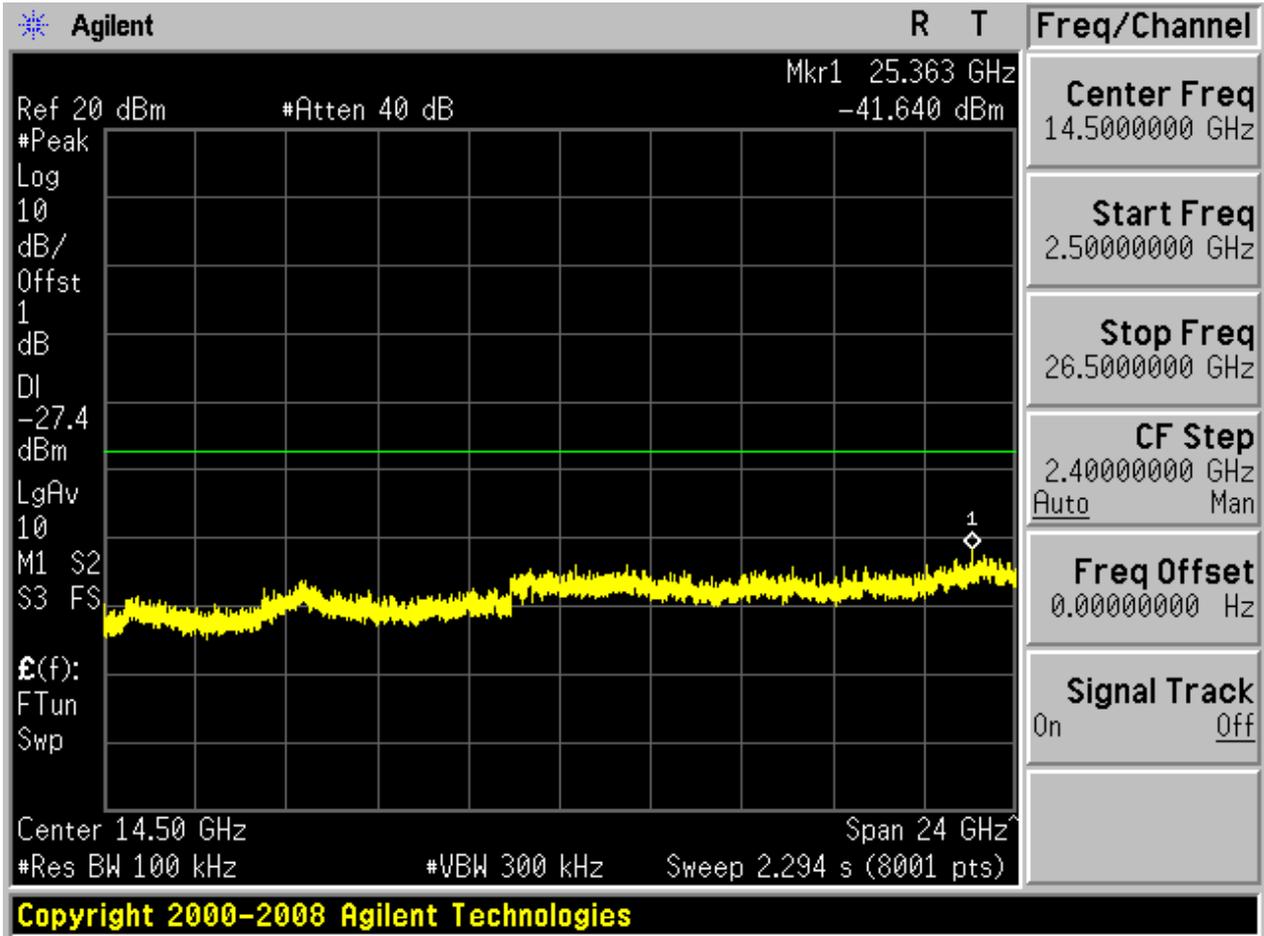








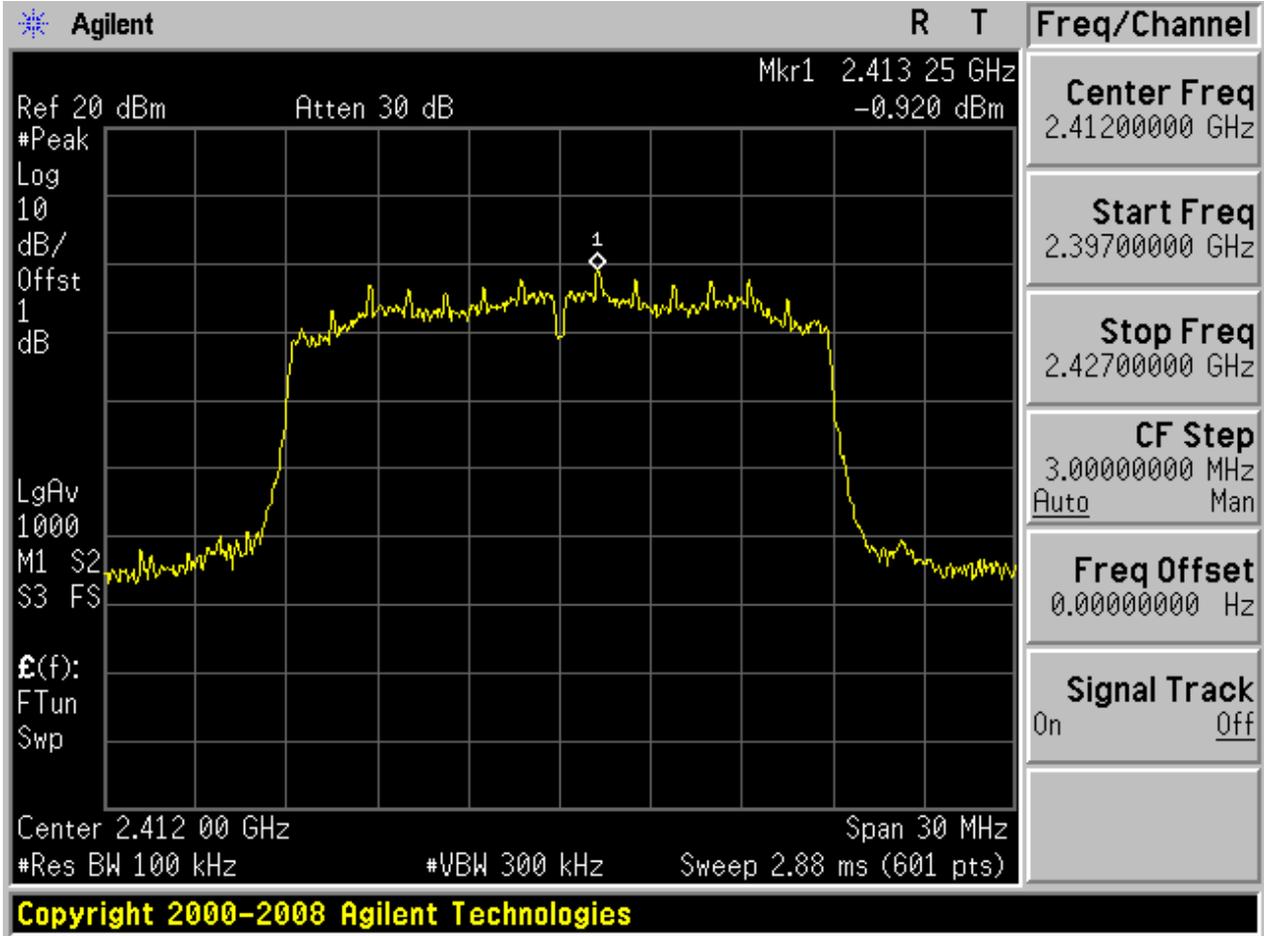






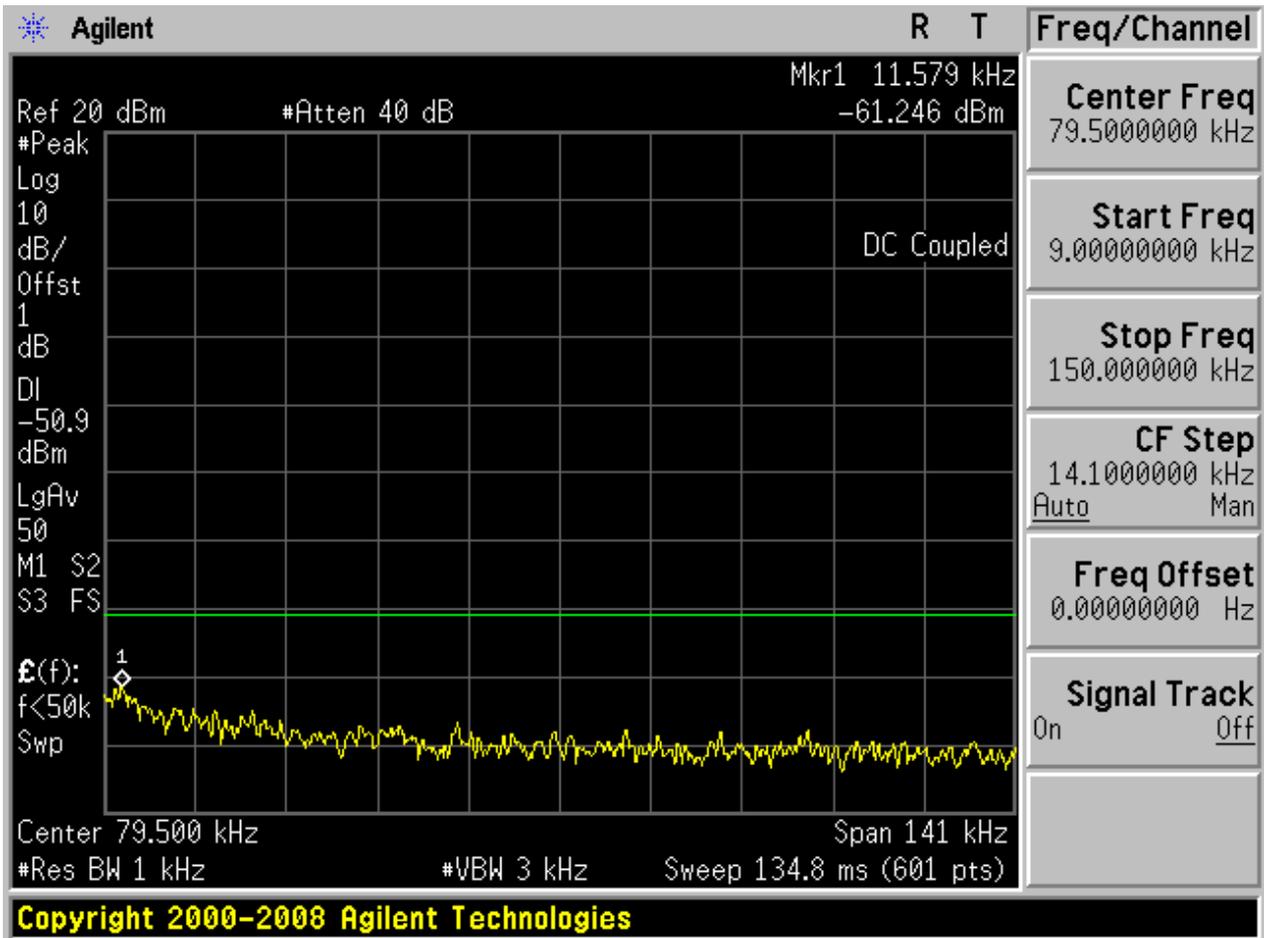
2.13 11N20\_L@Ant 1

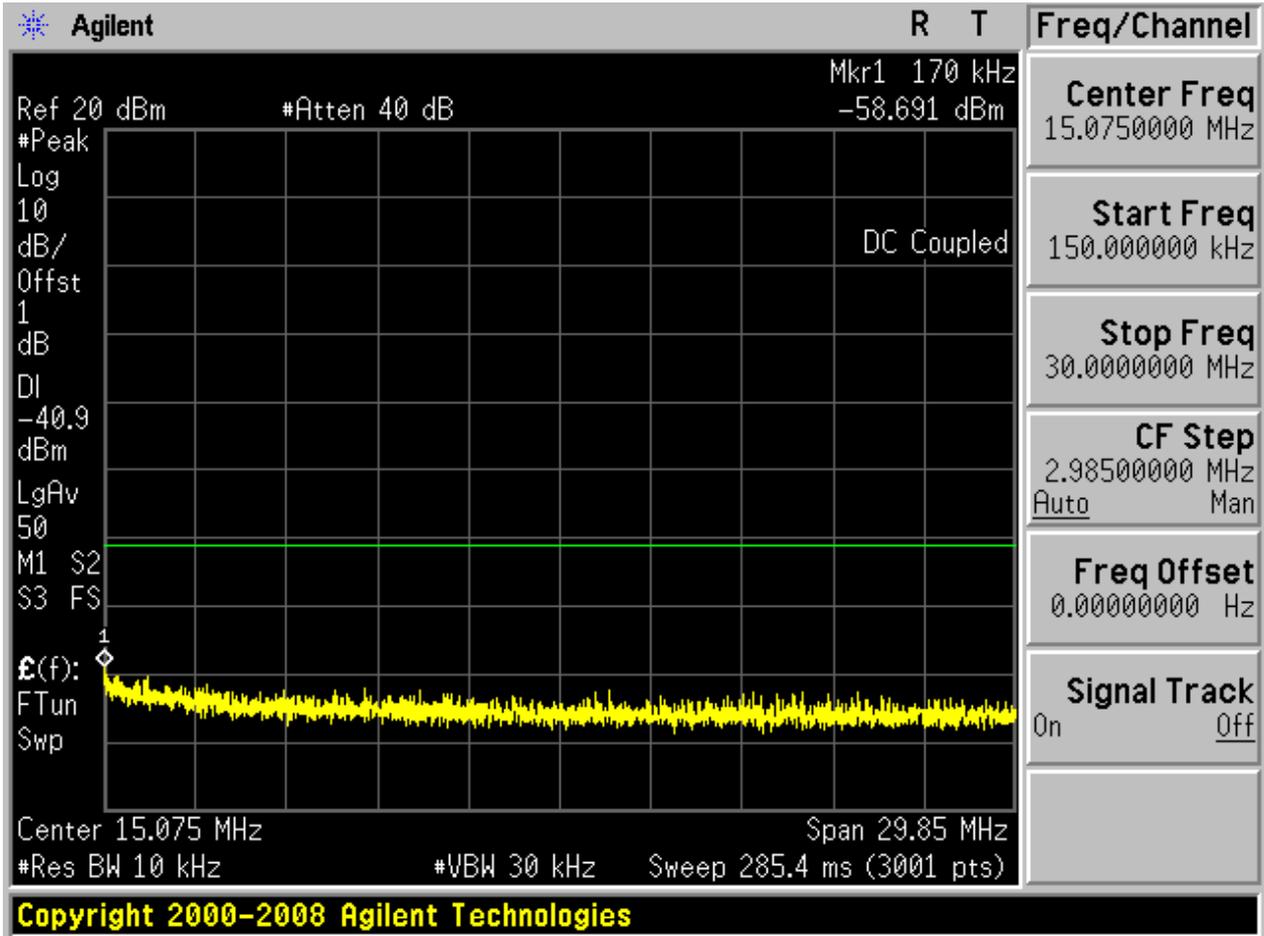
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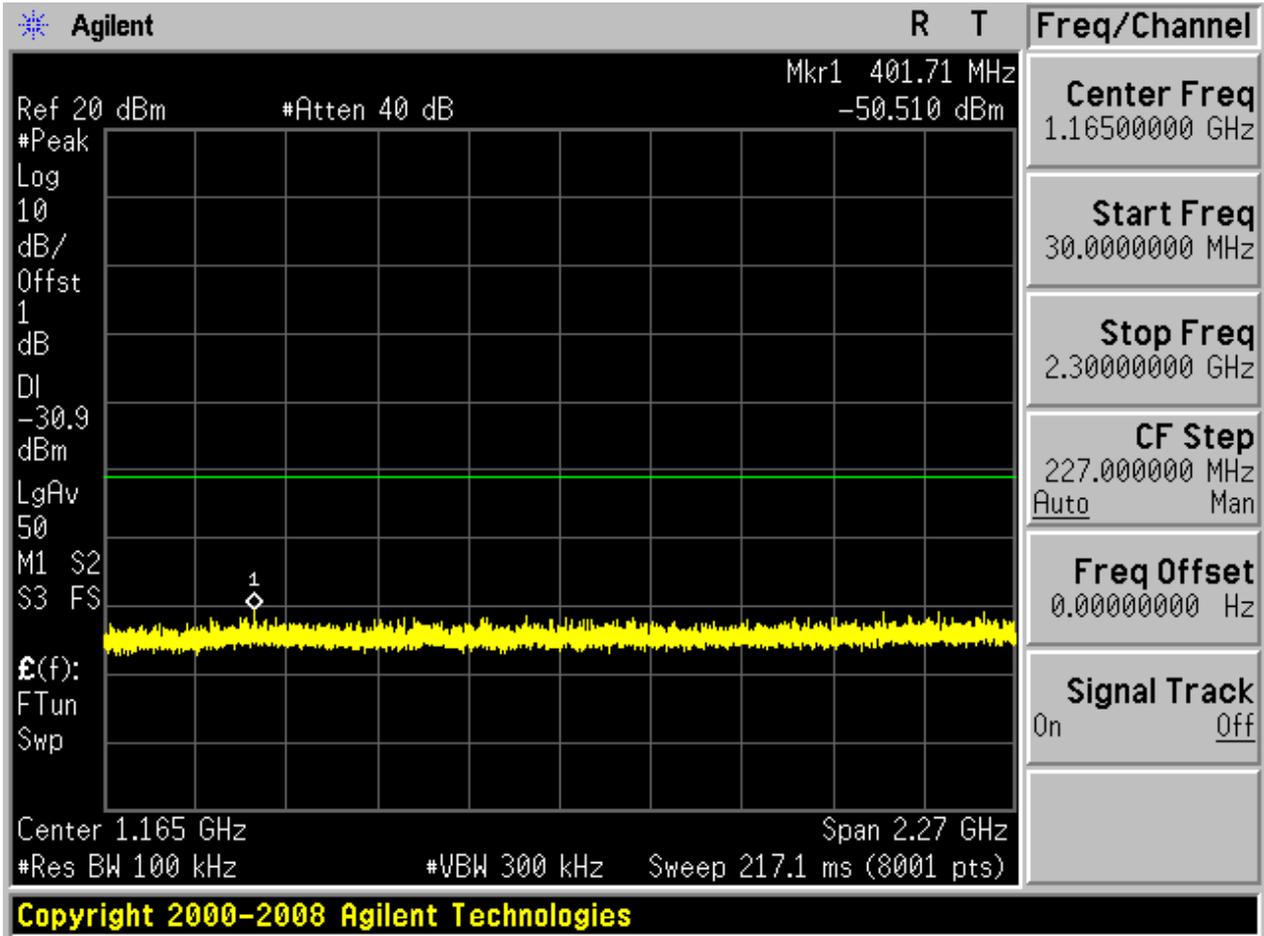


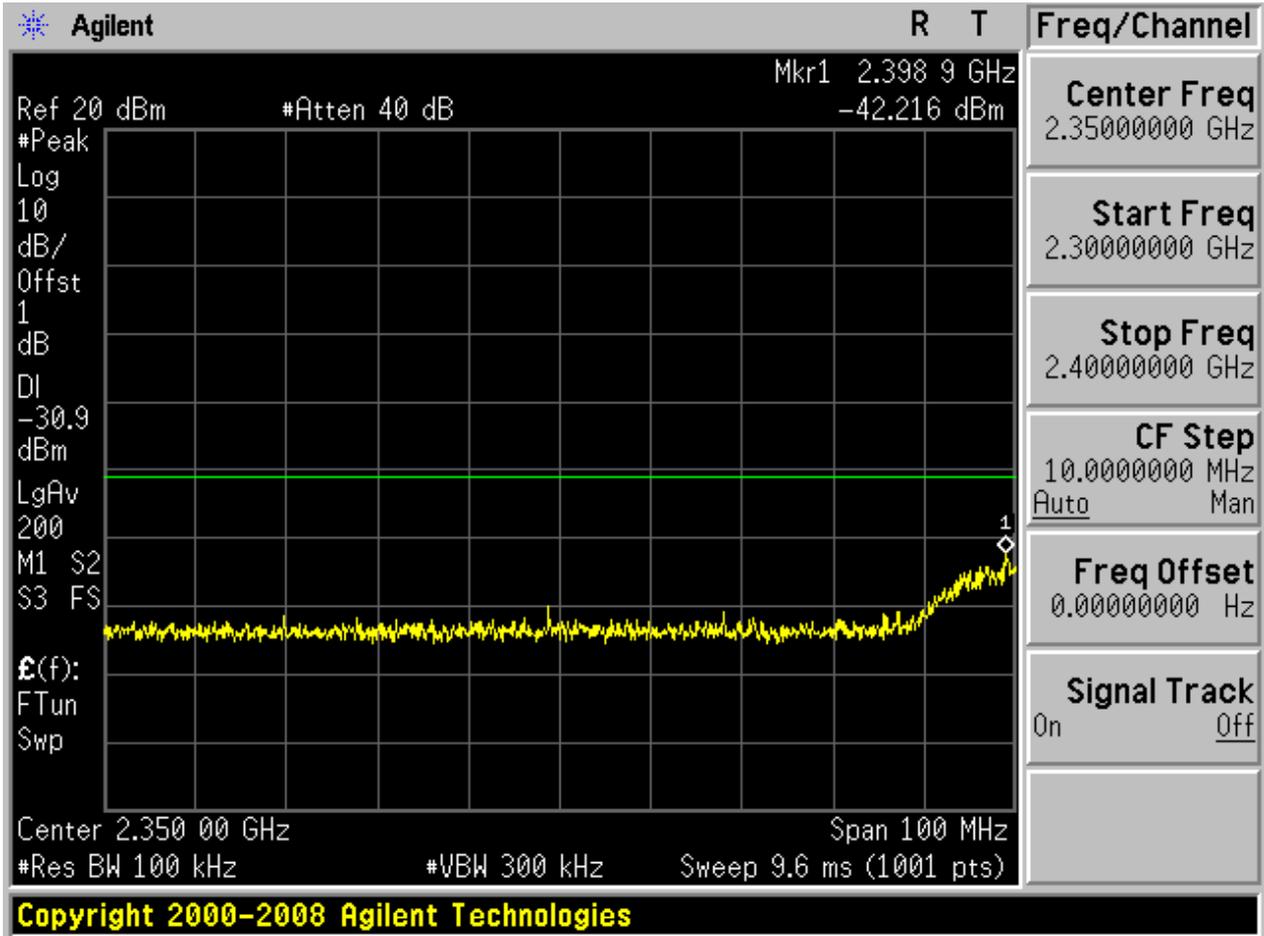


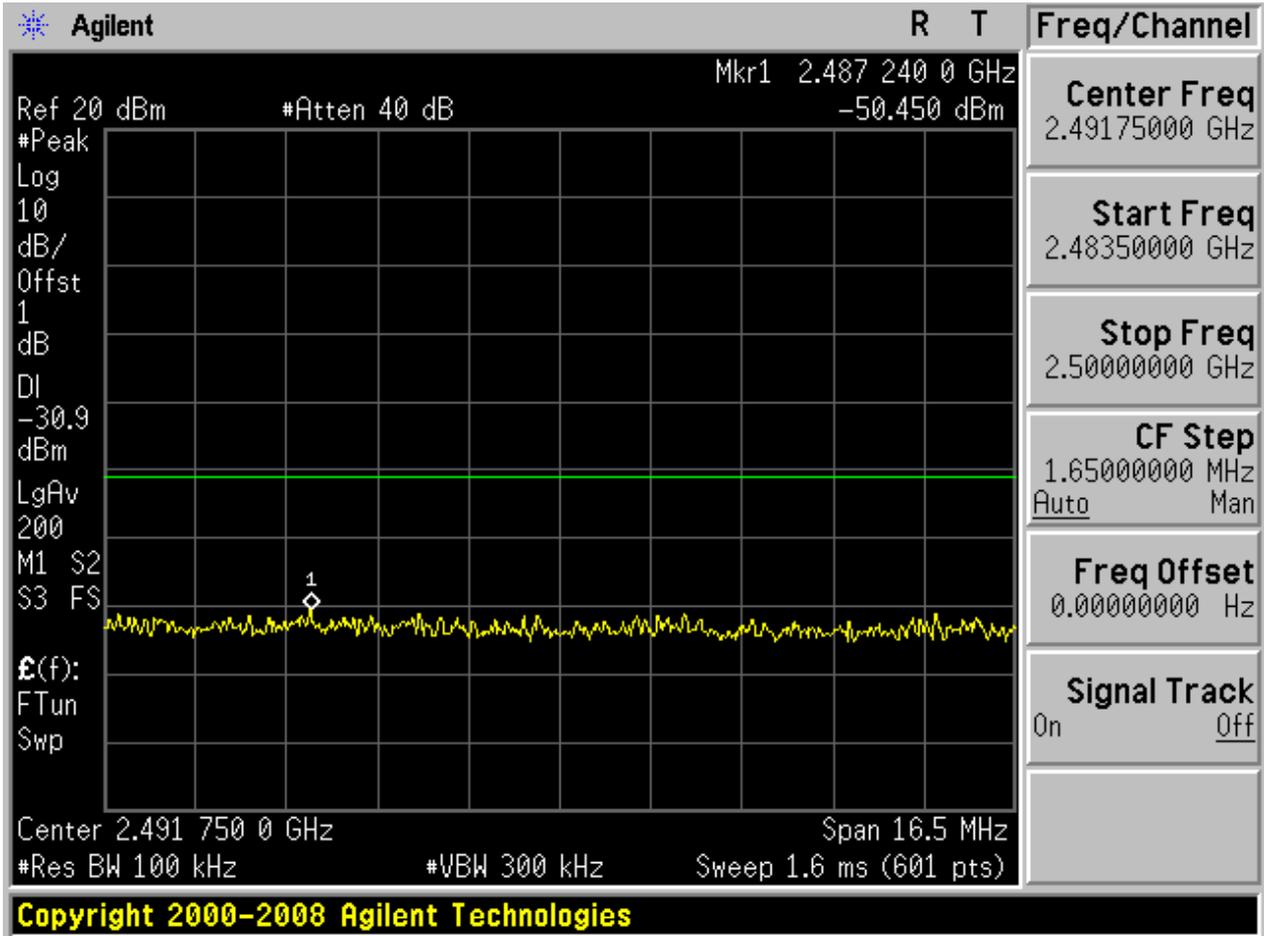
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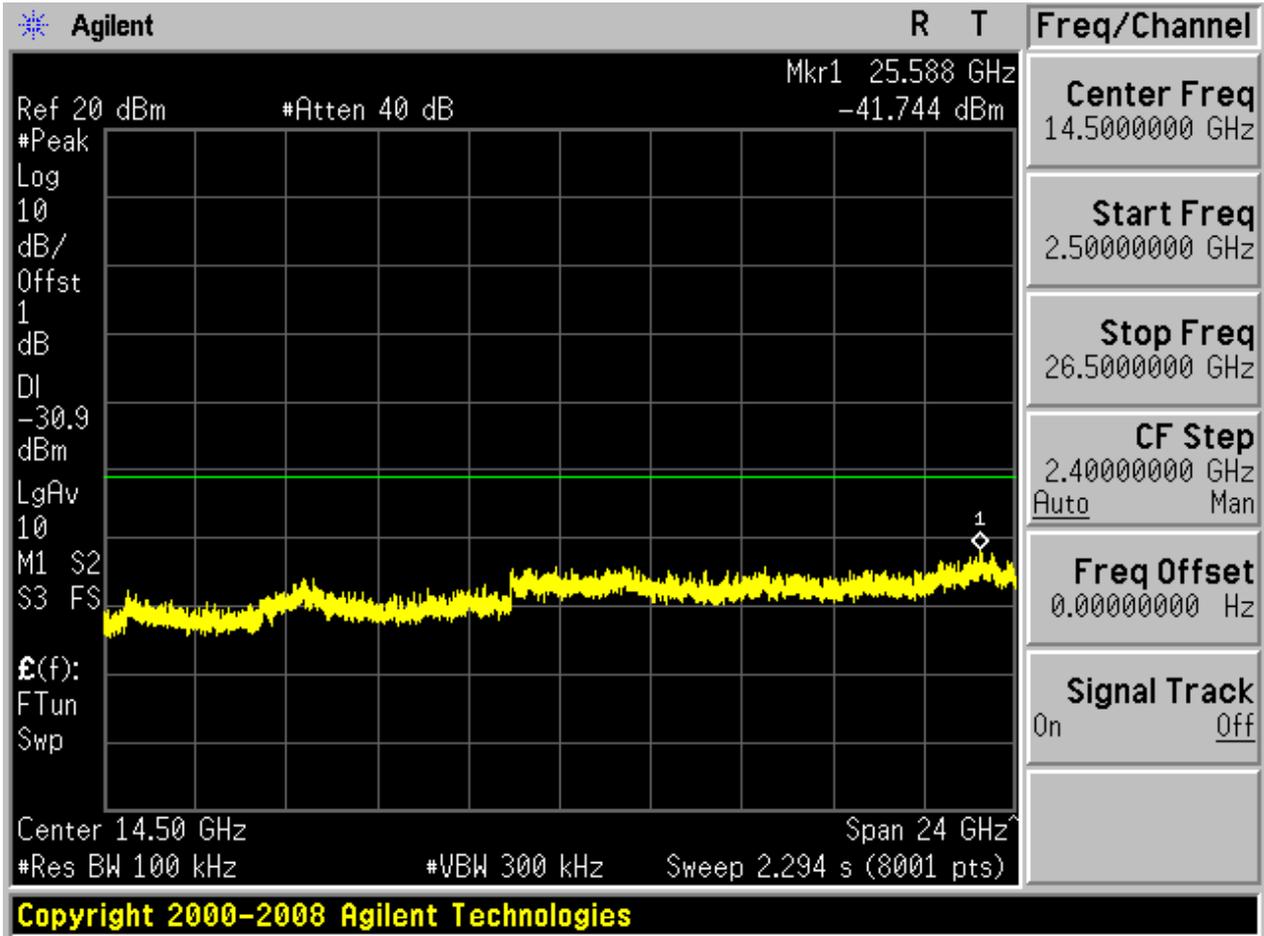






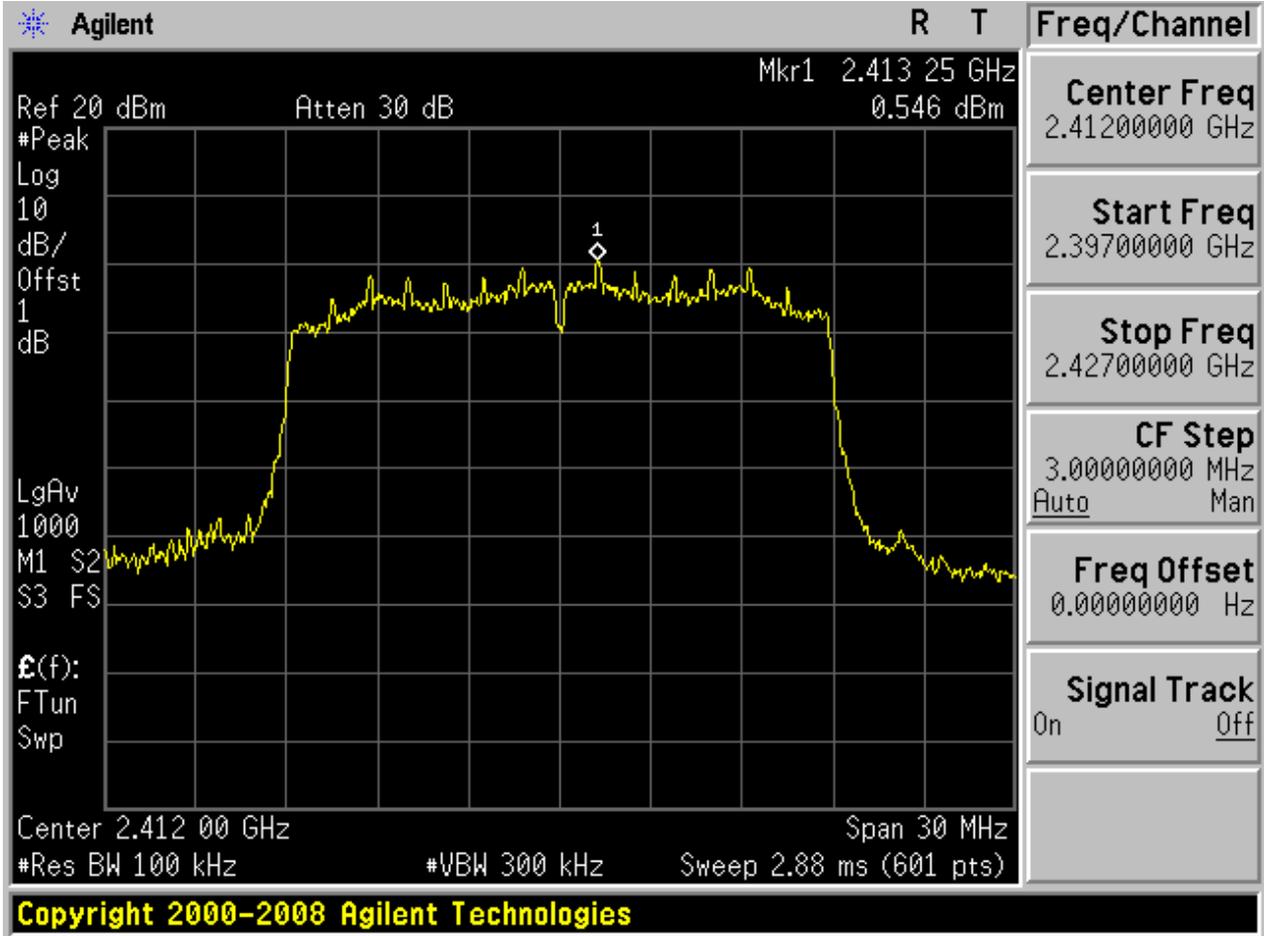






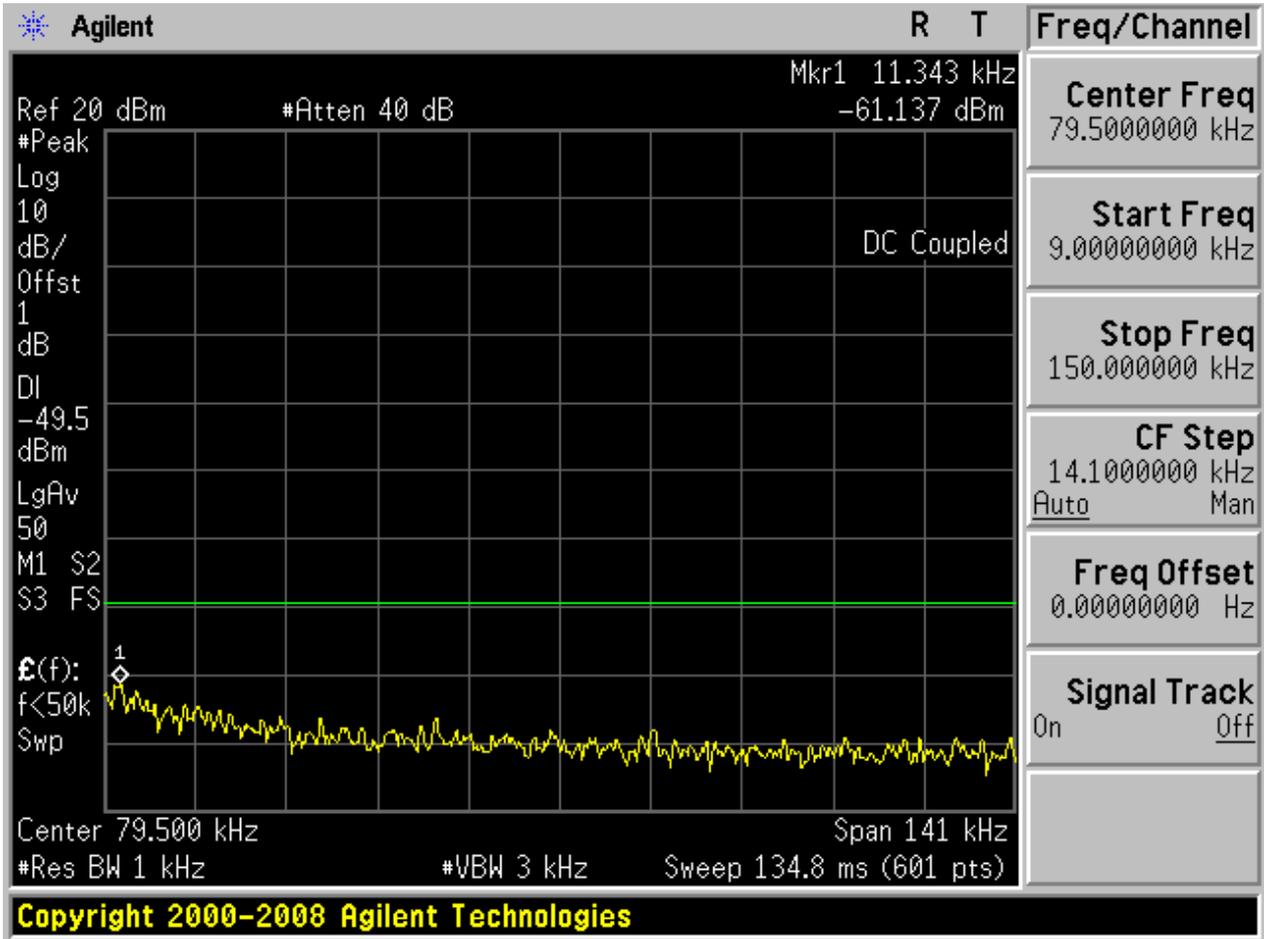
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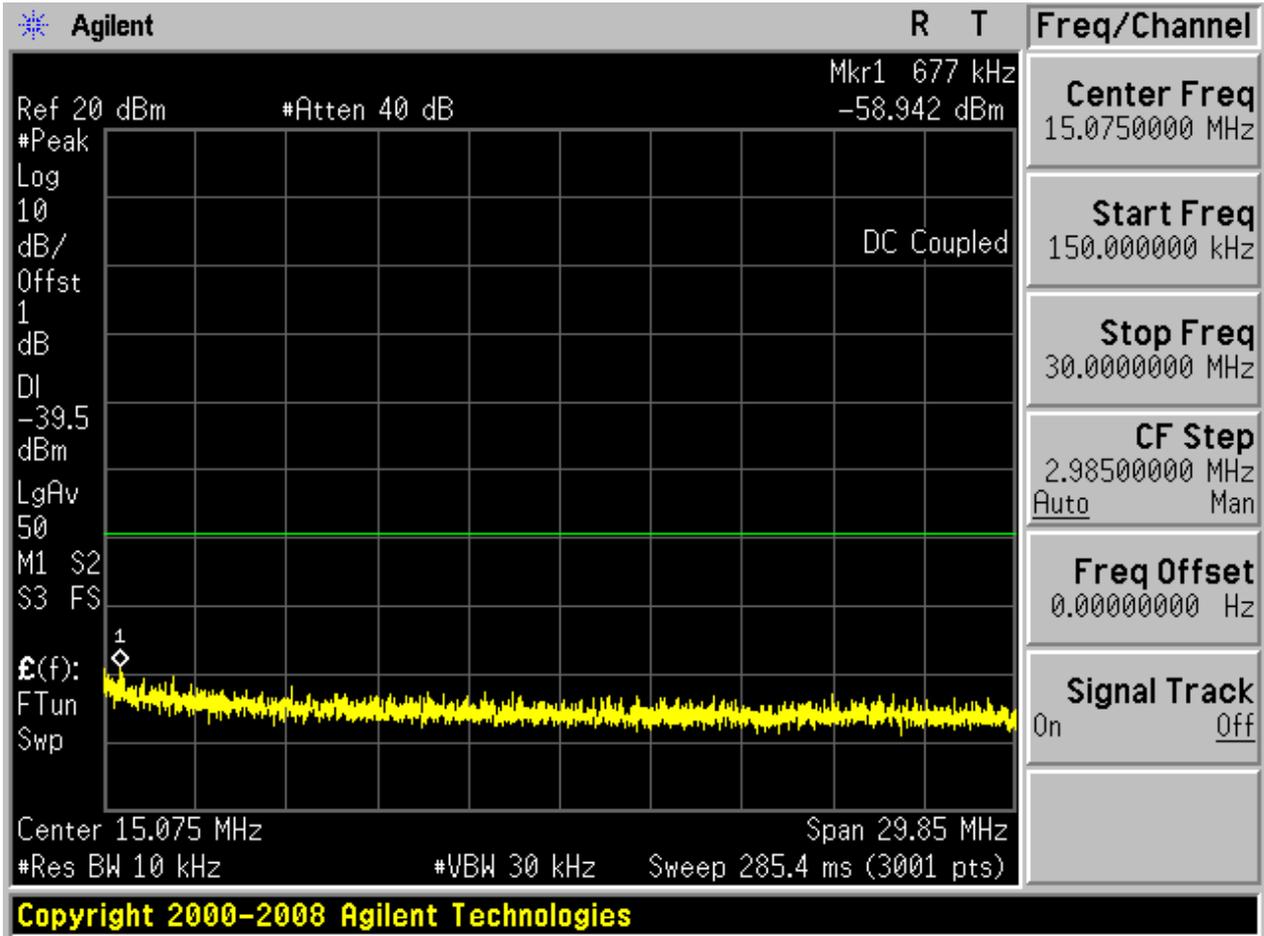
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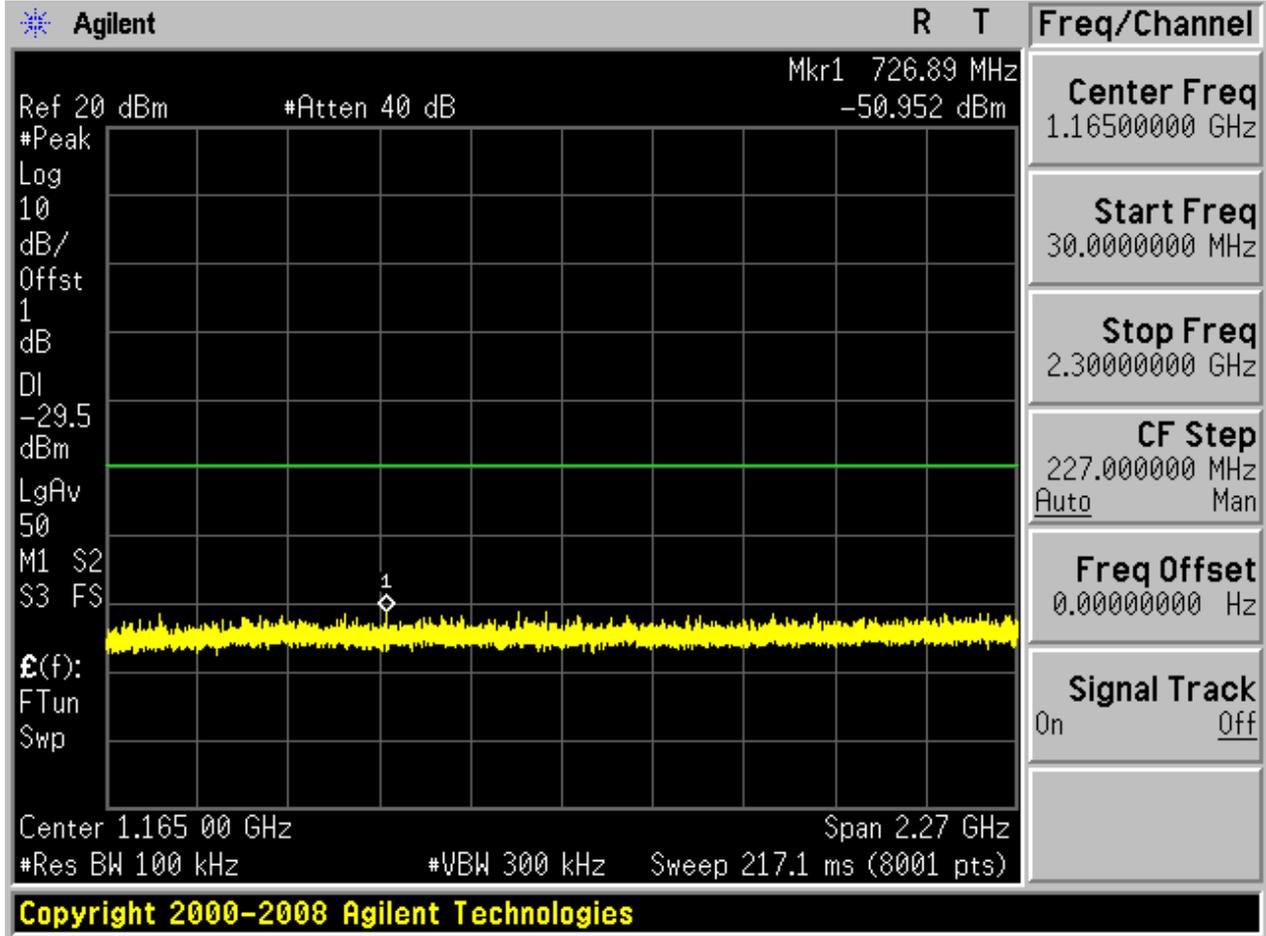


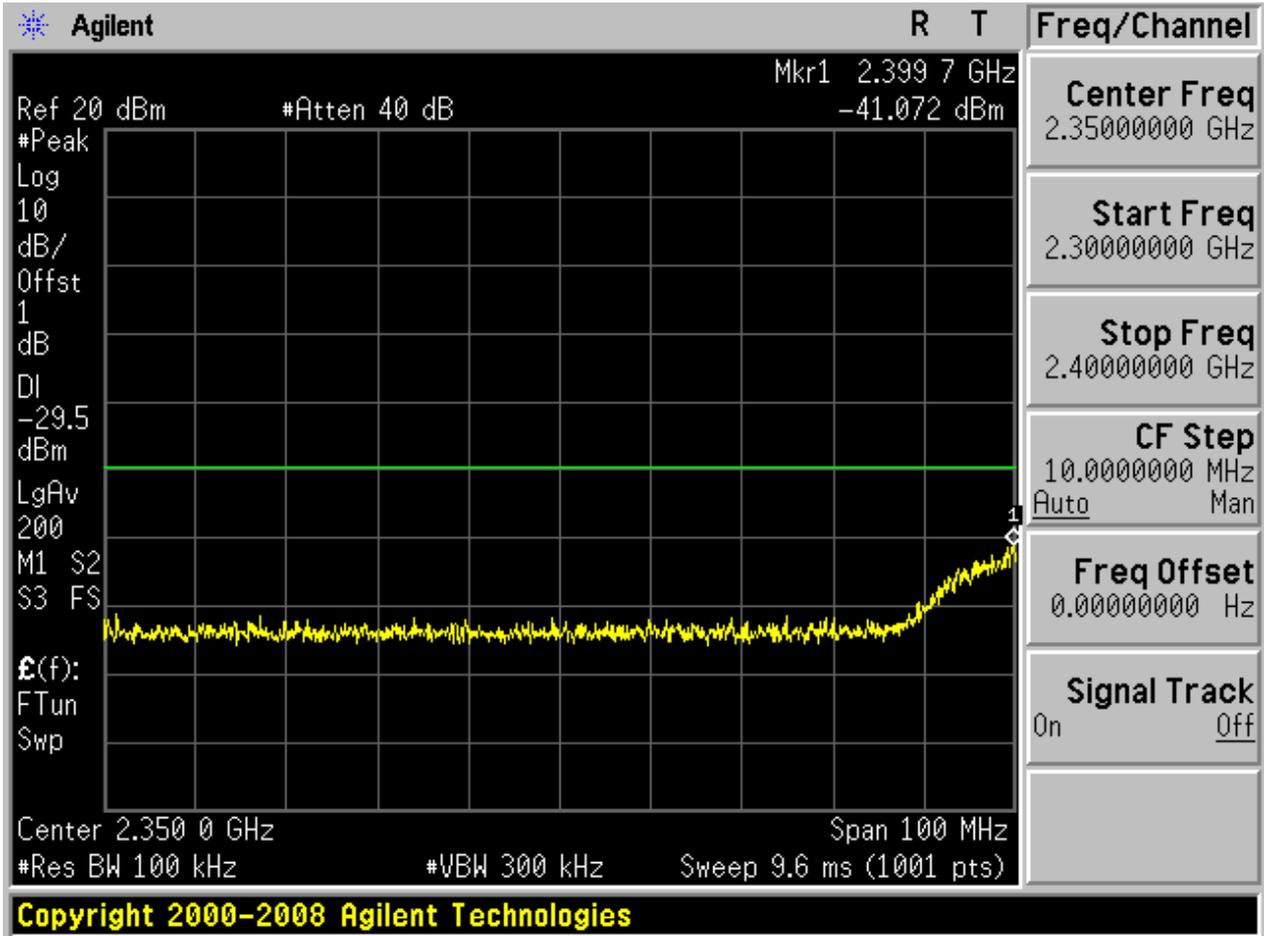


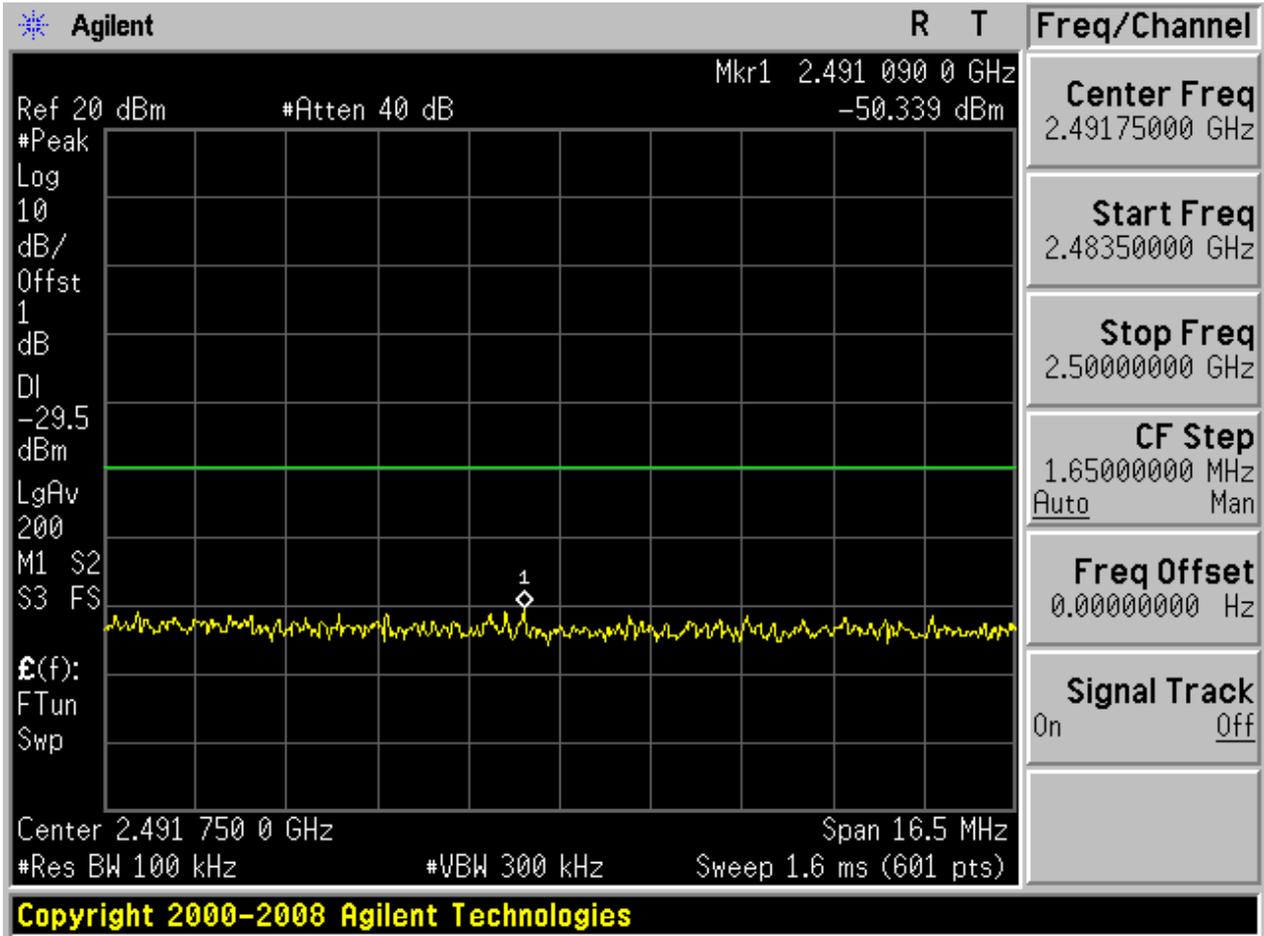
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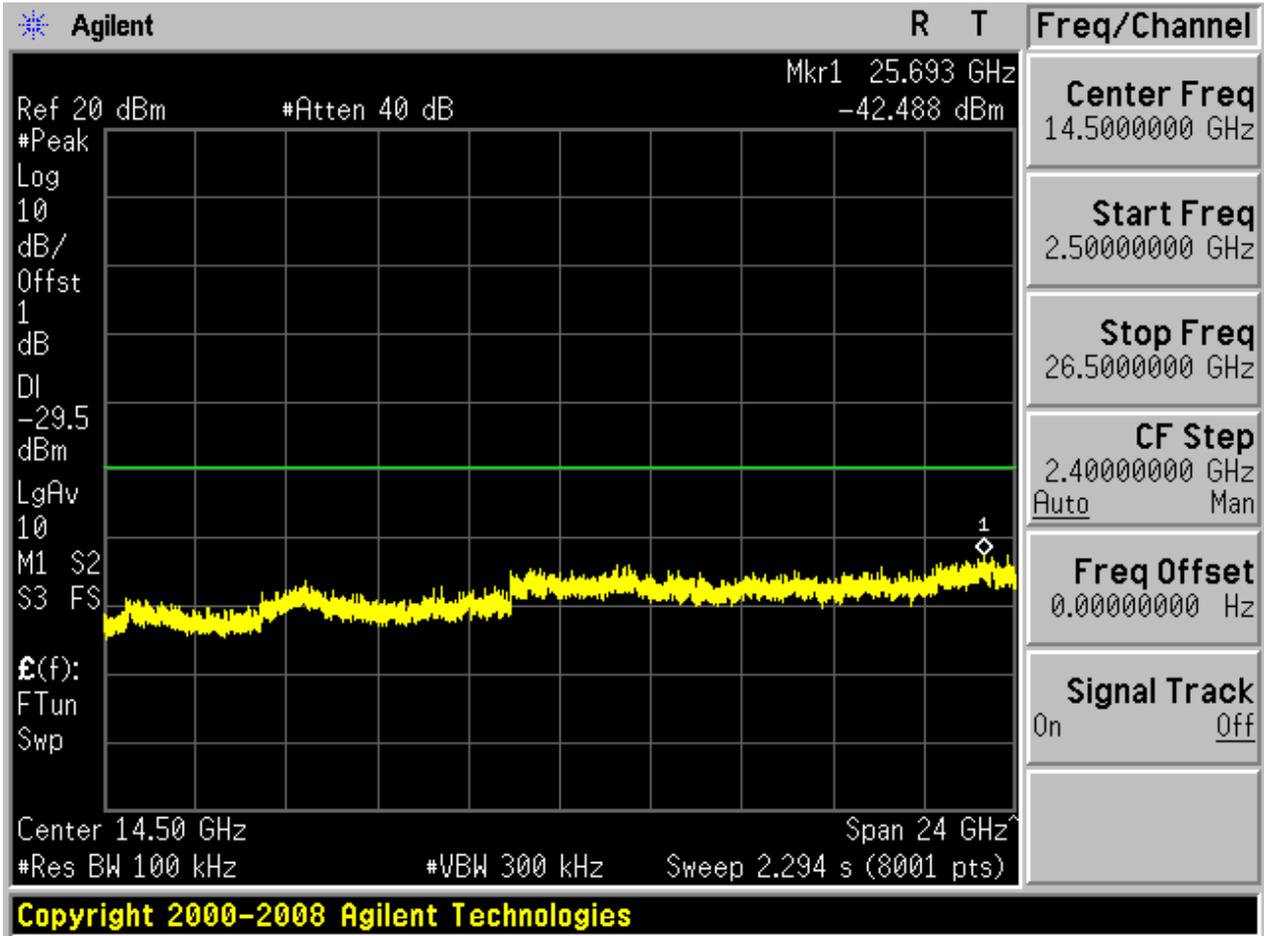








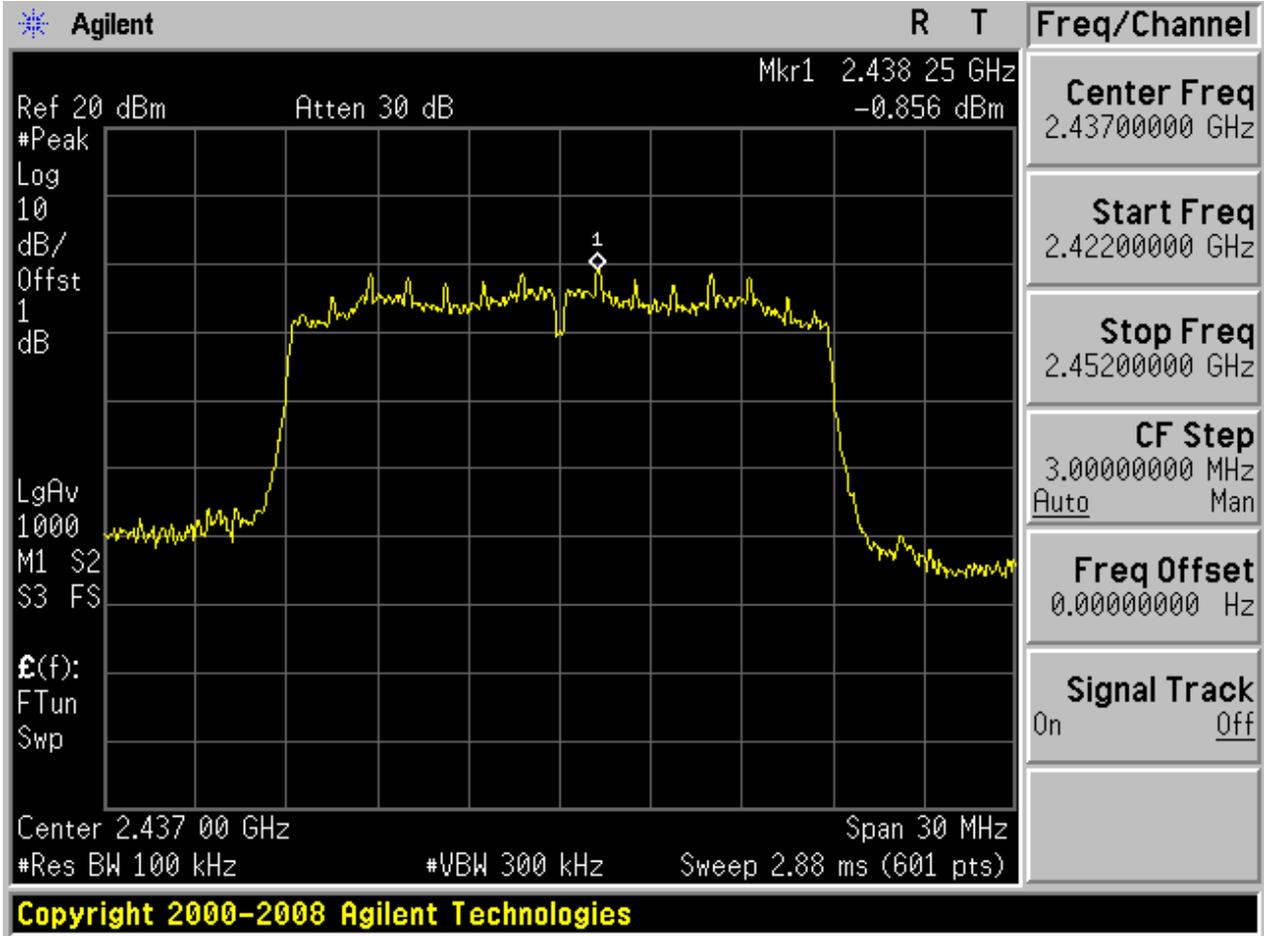






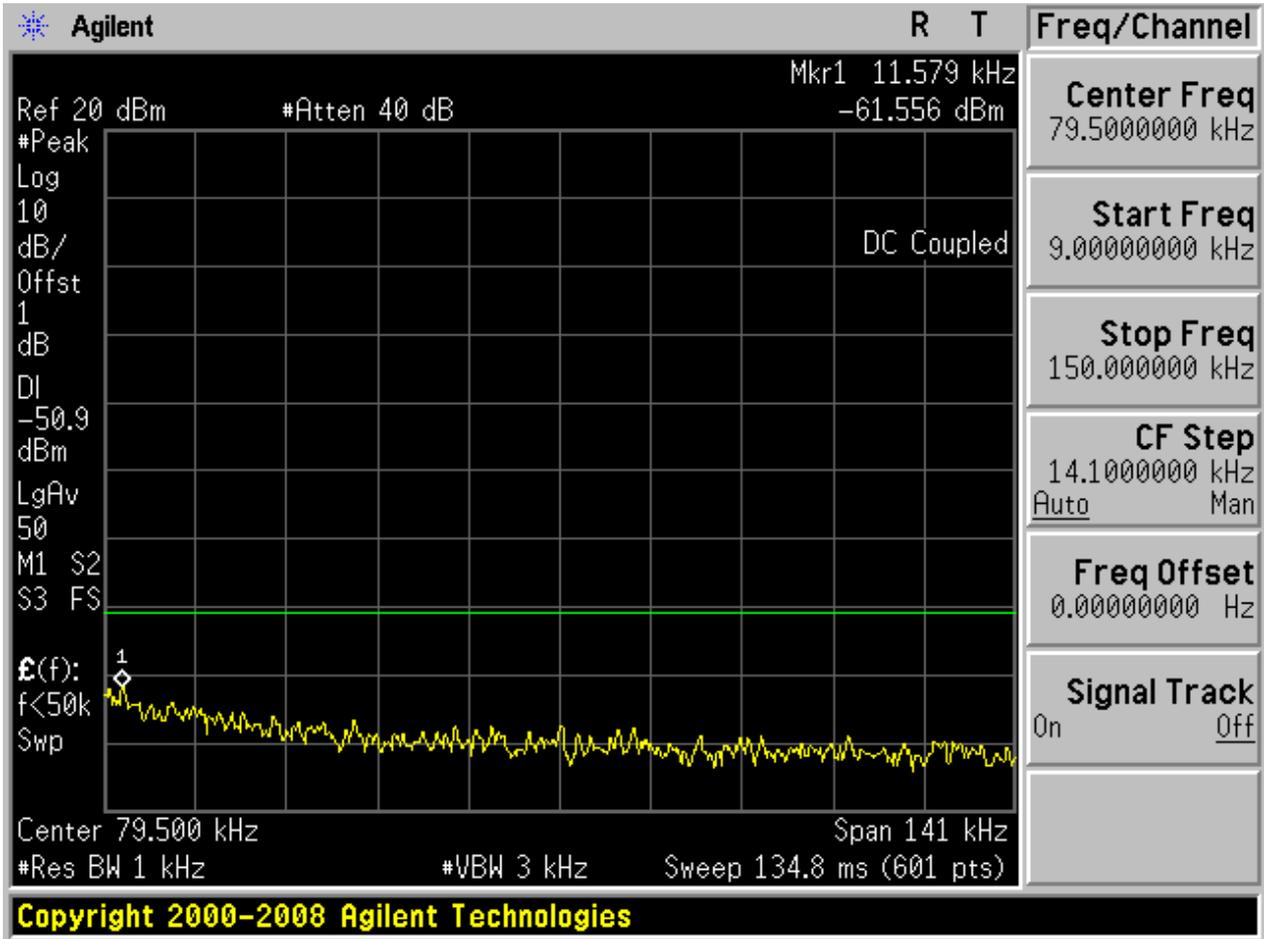
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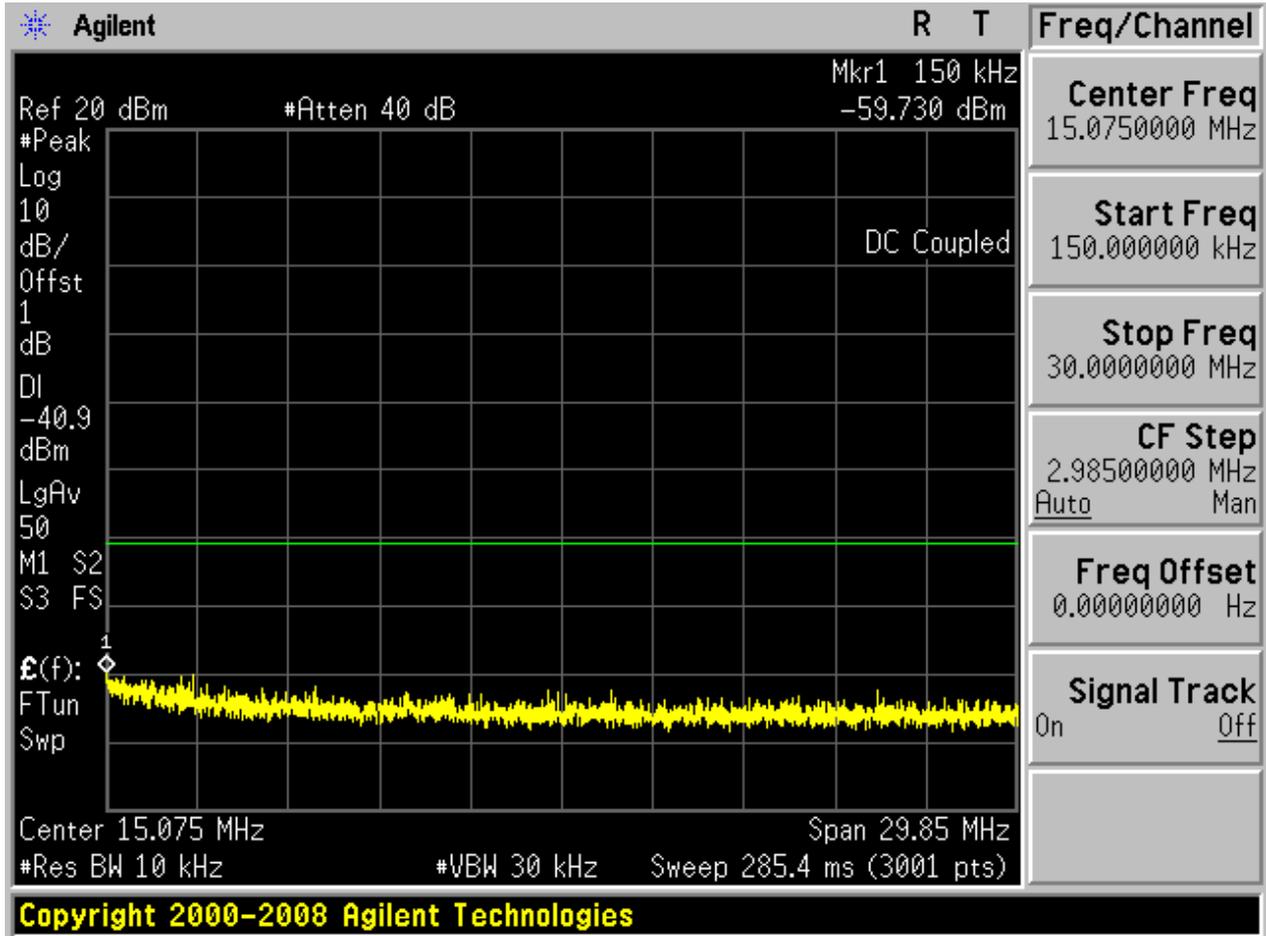
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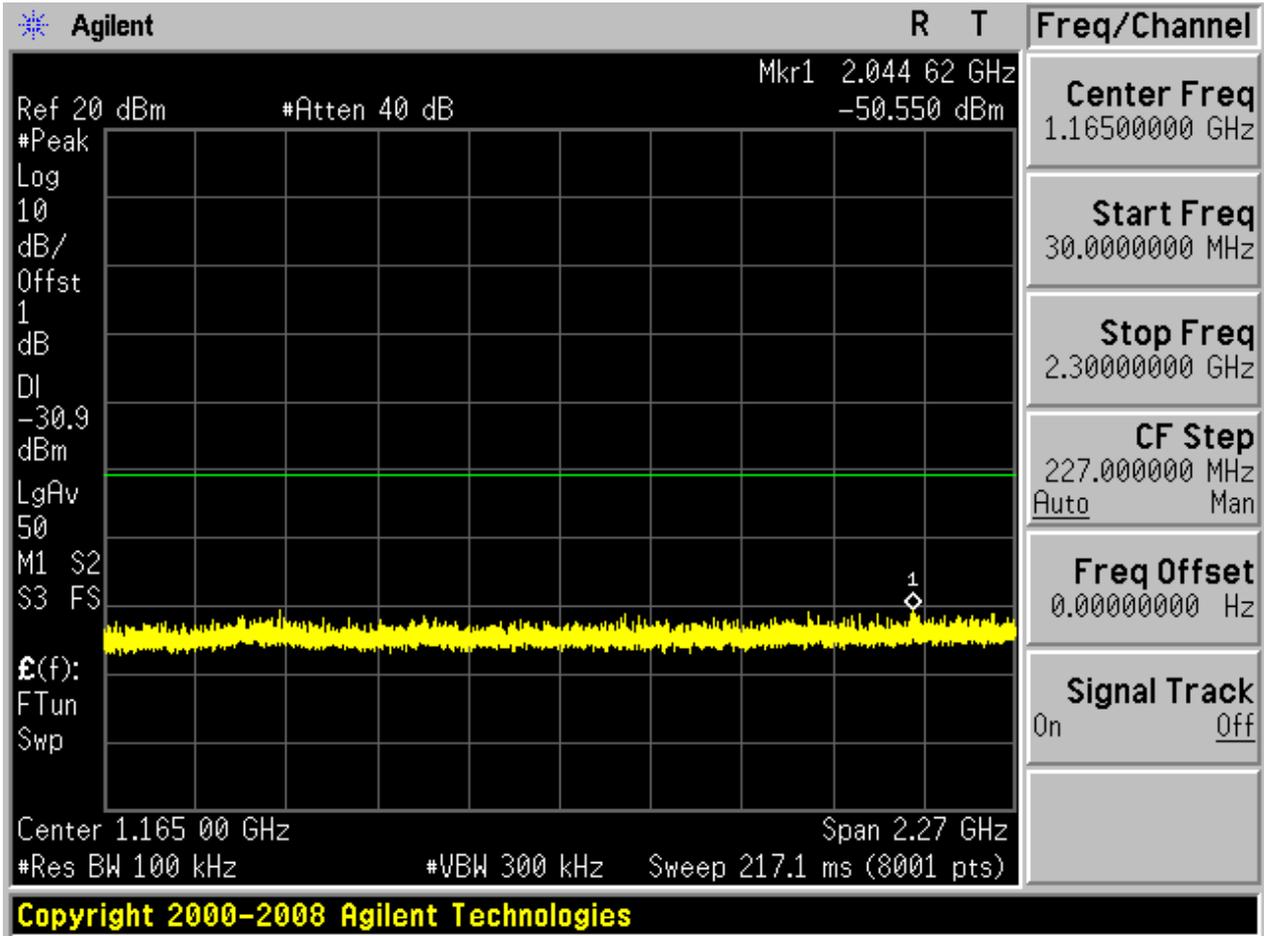


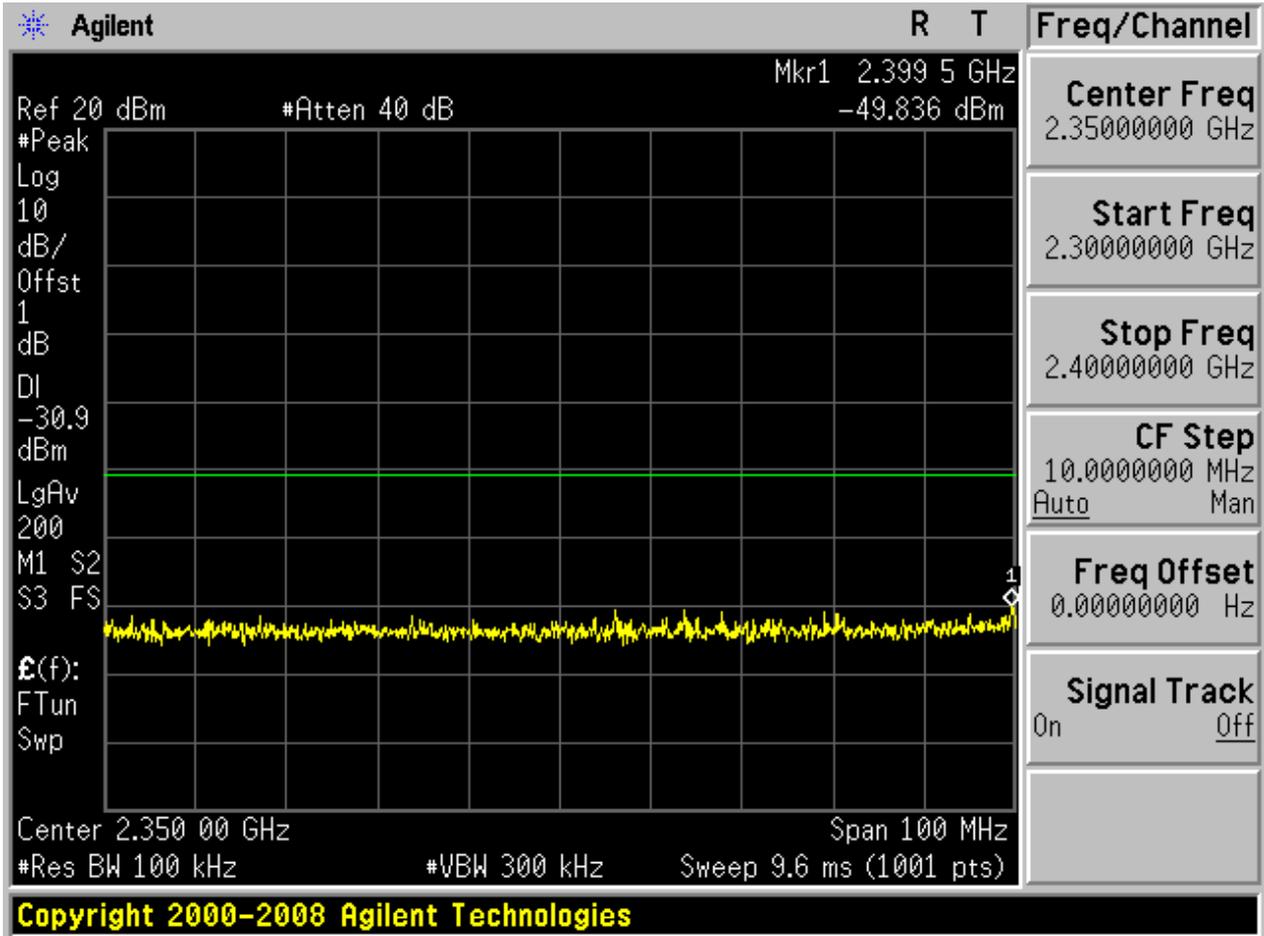


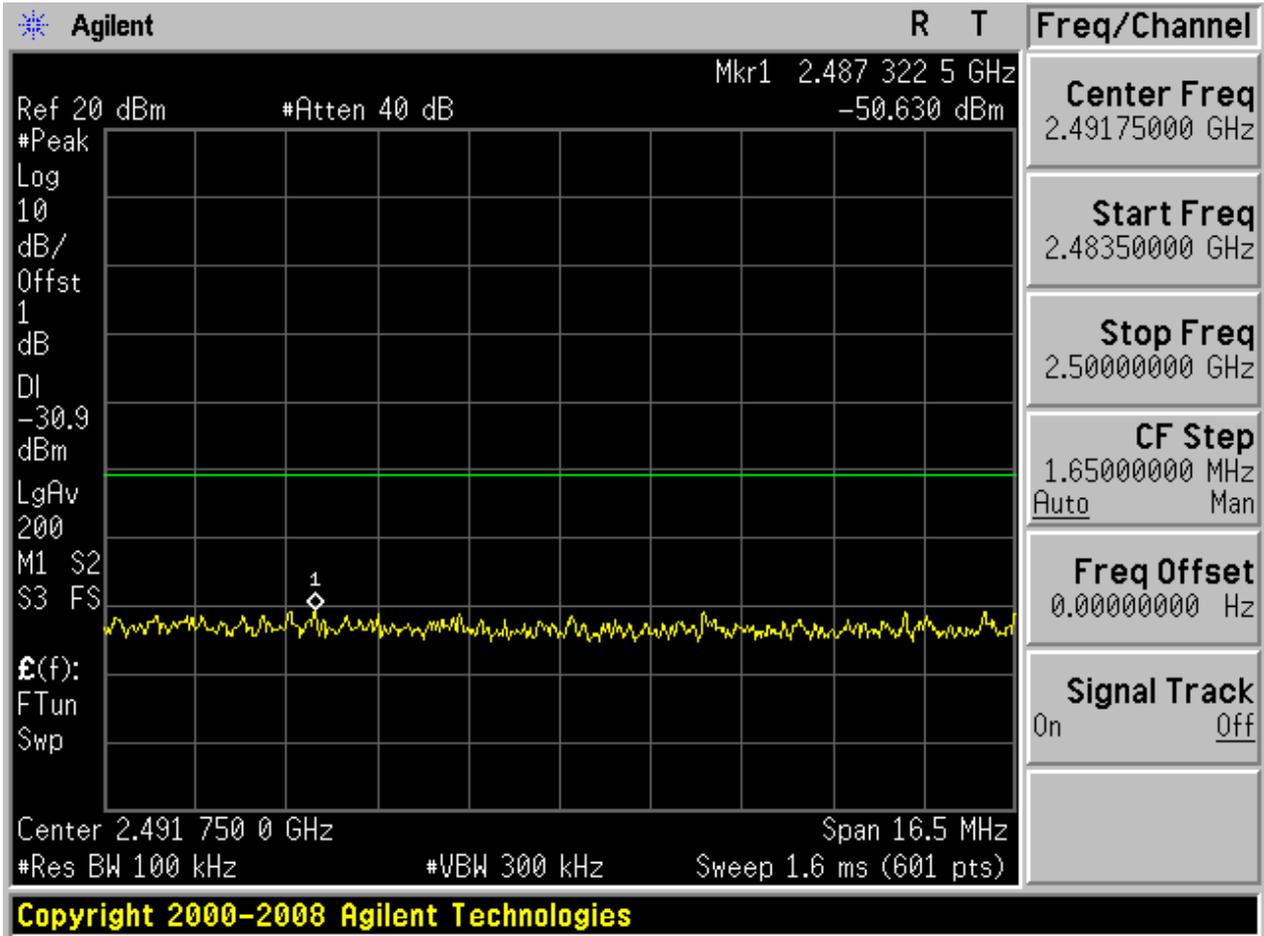
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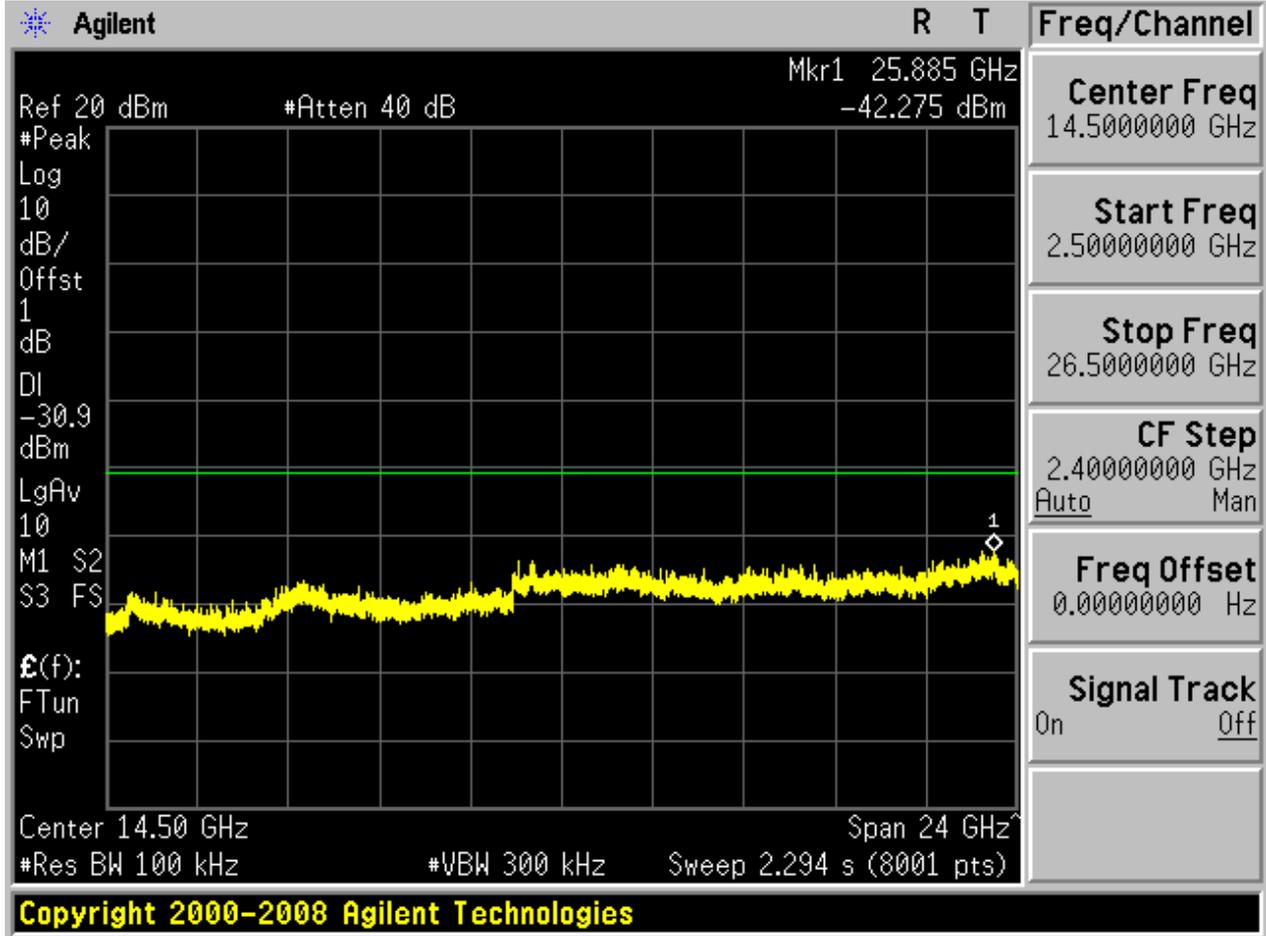








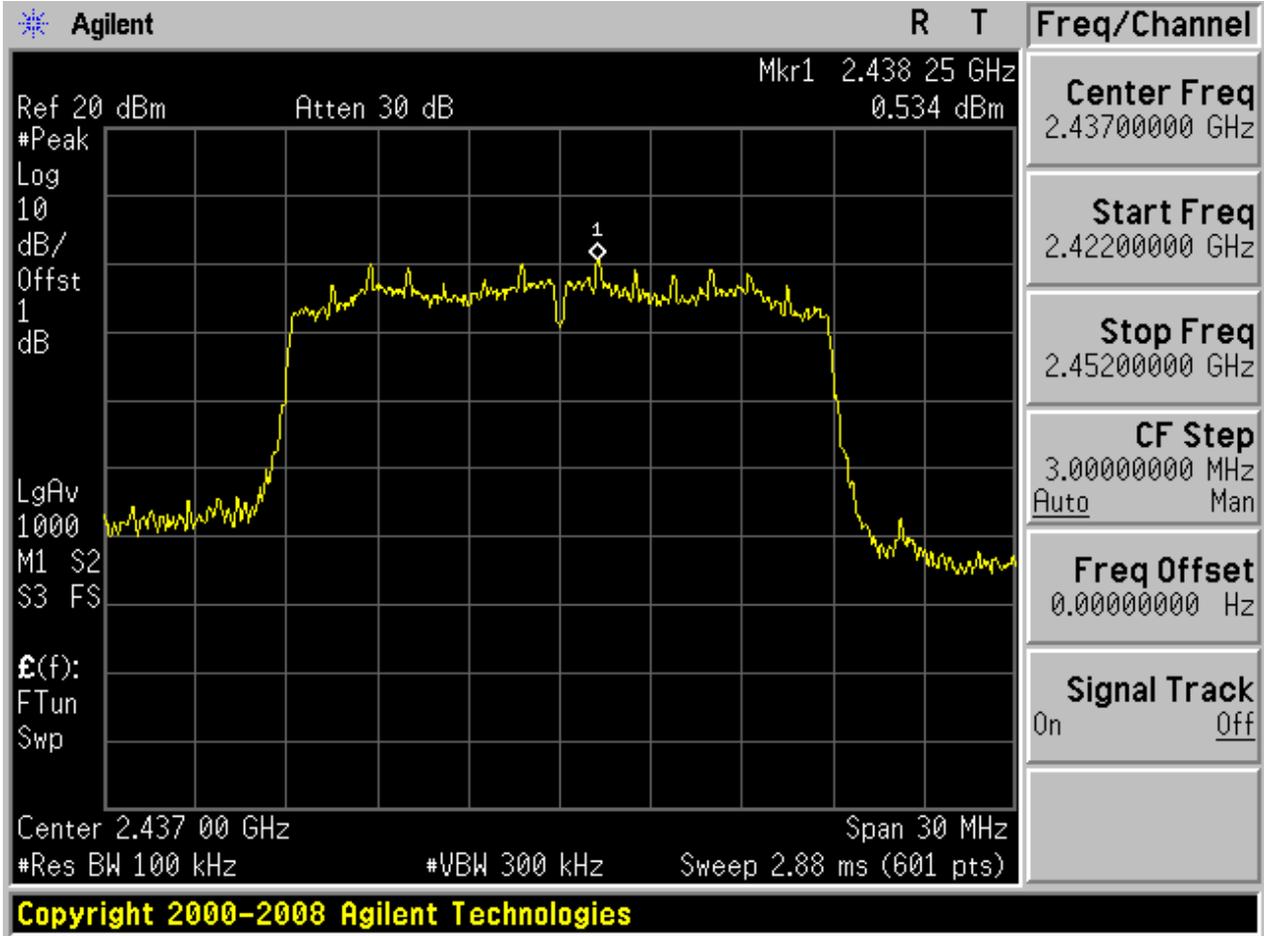






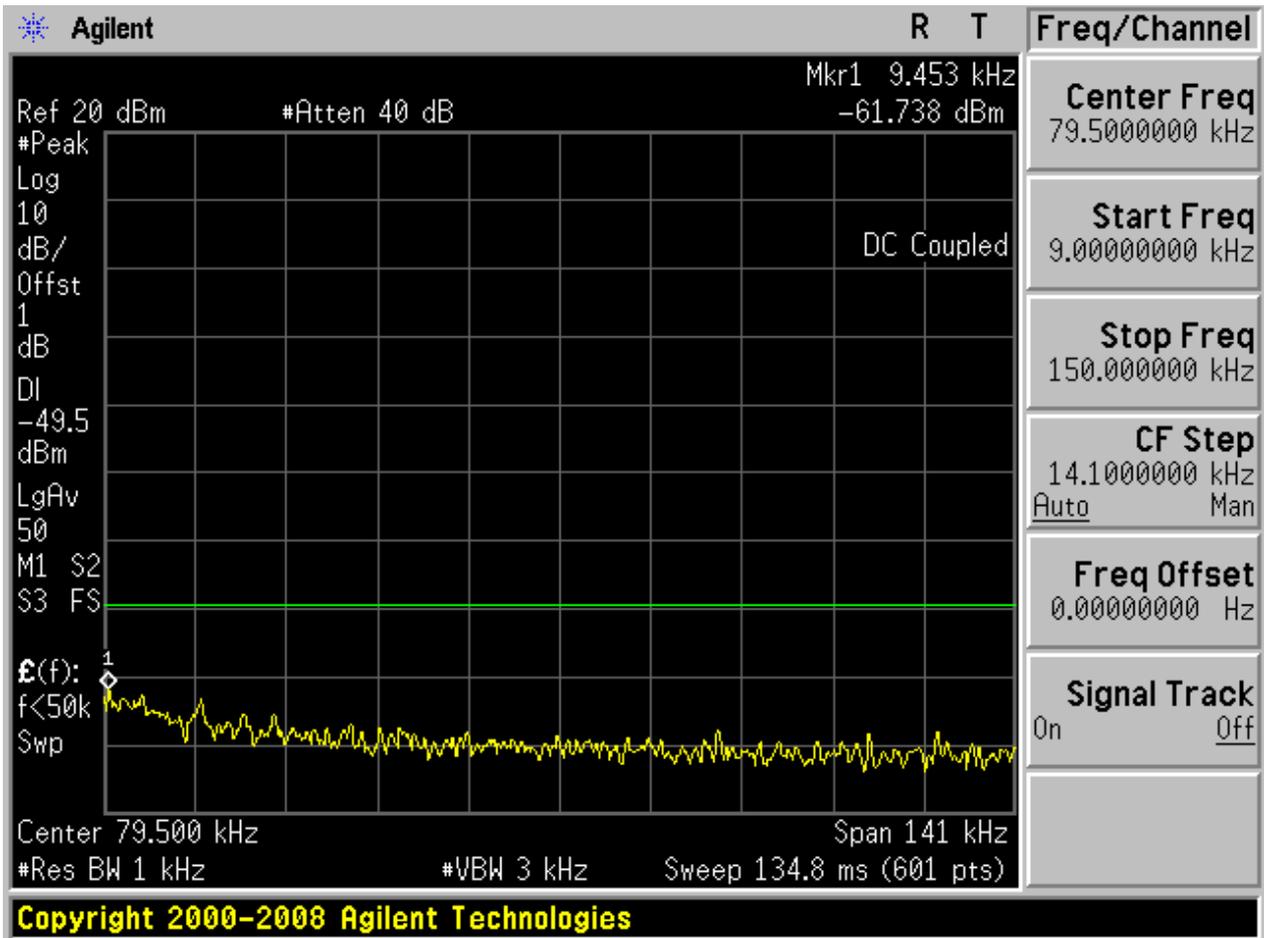
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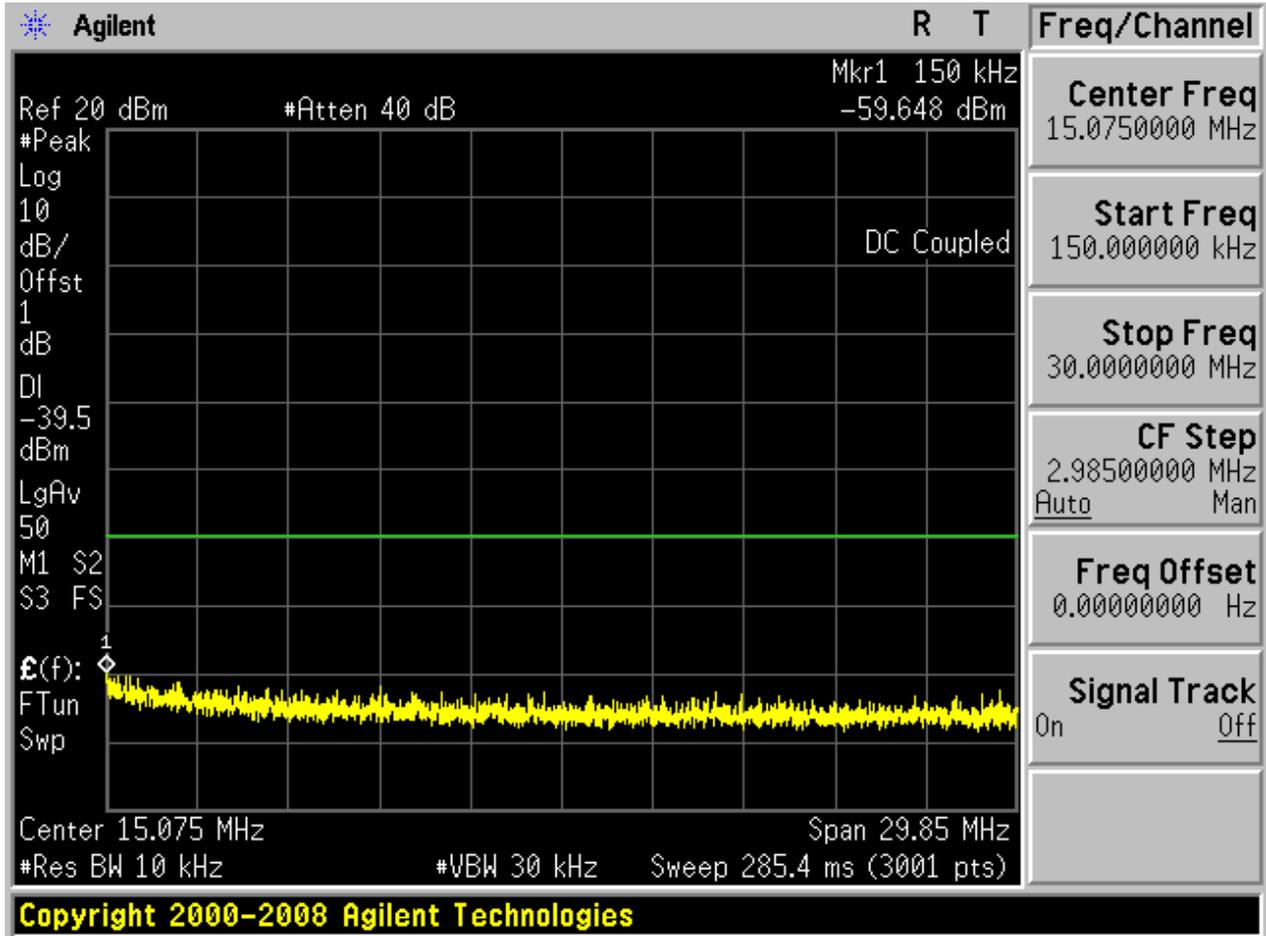
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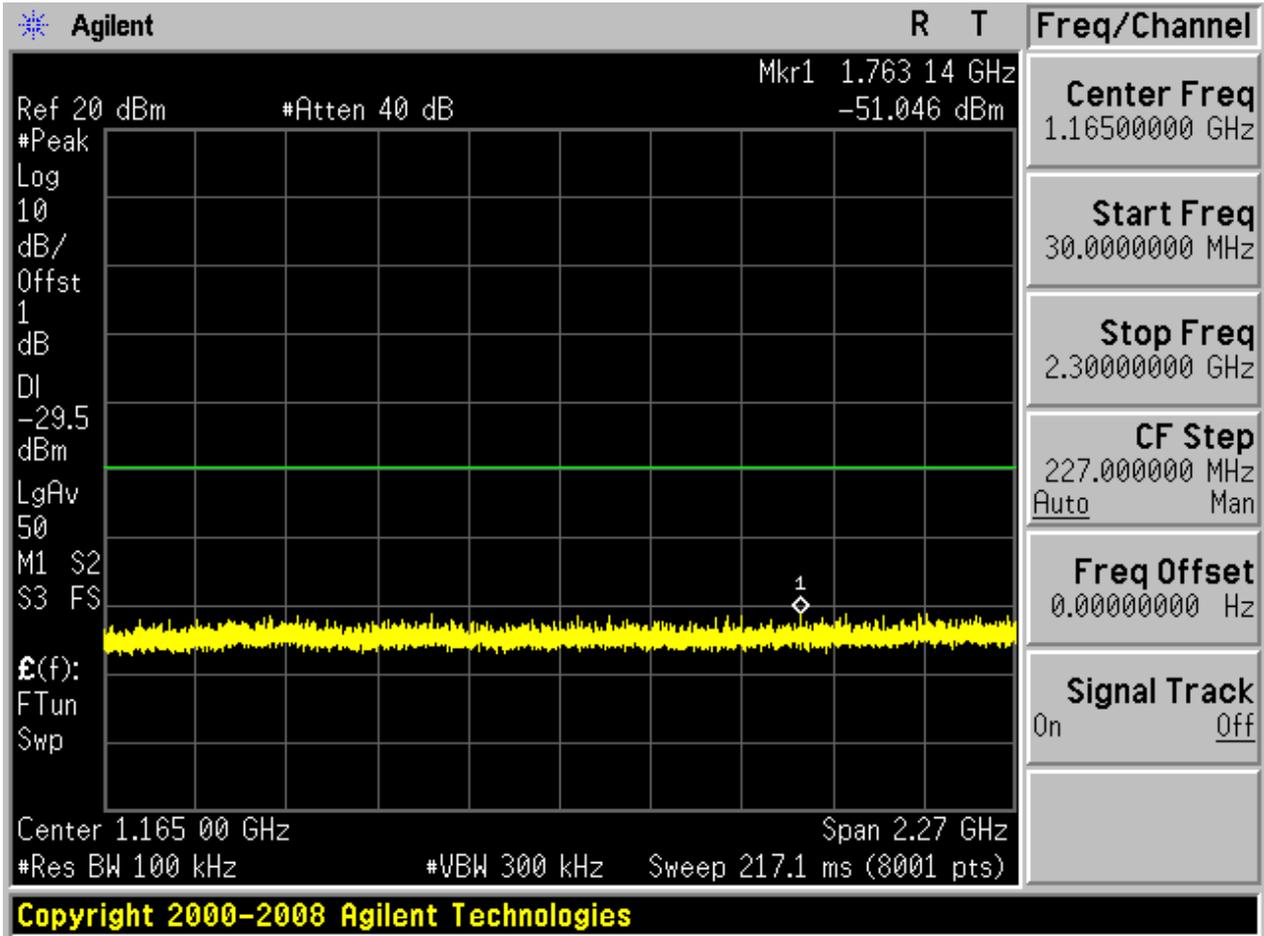


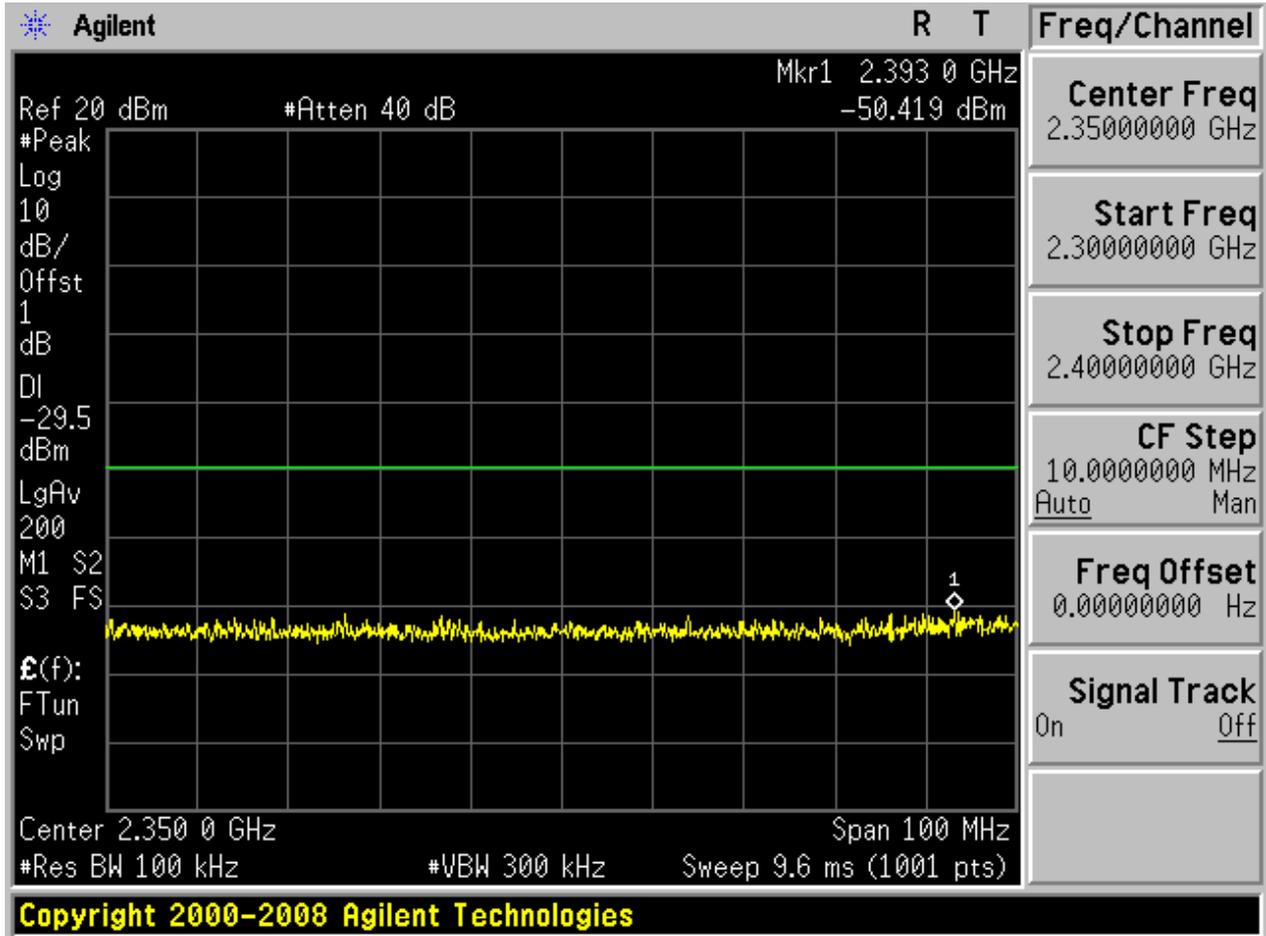


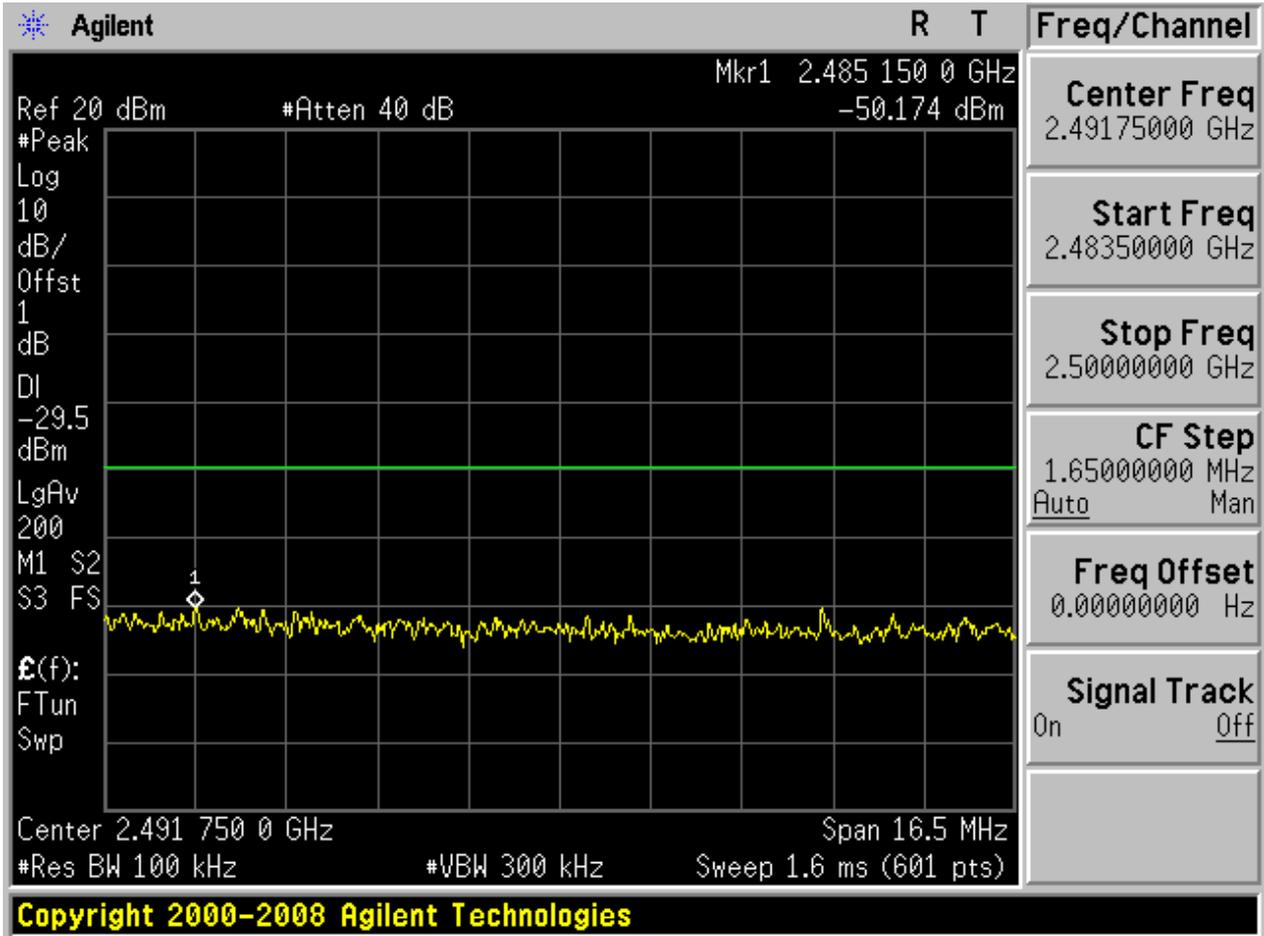
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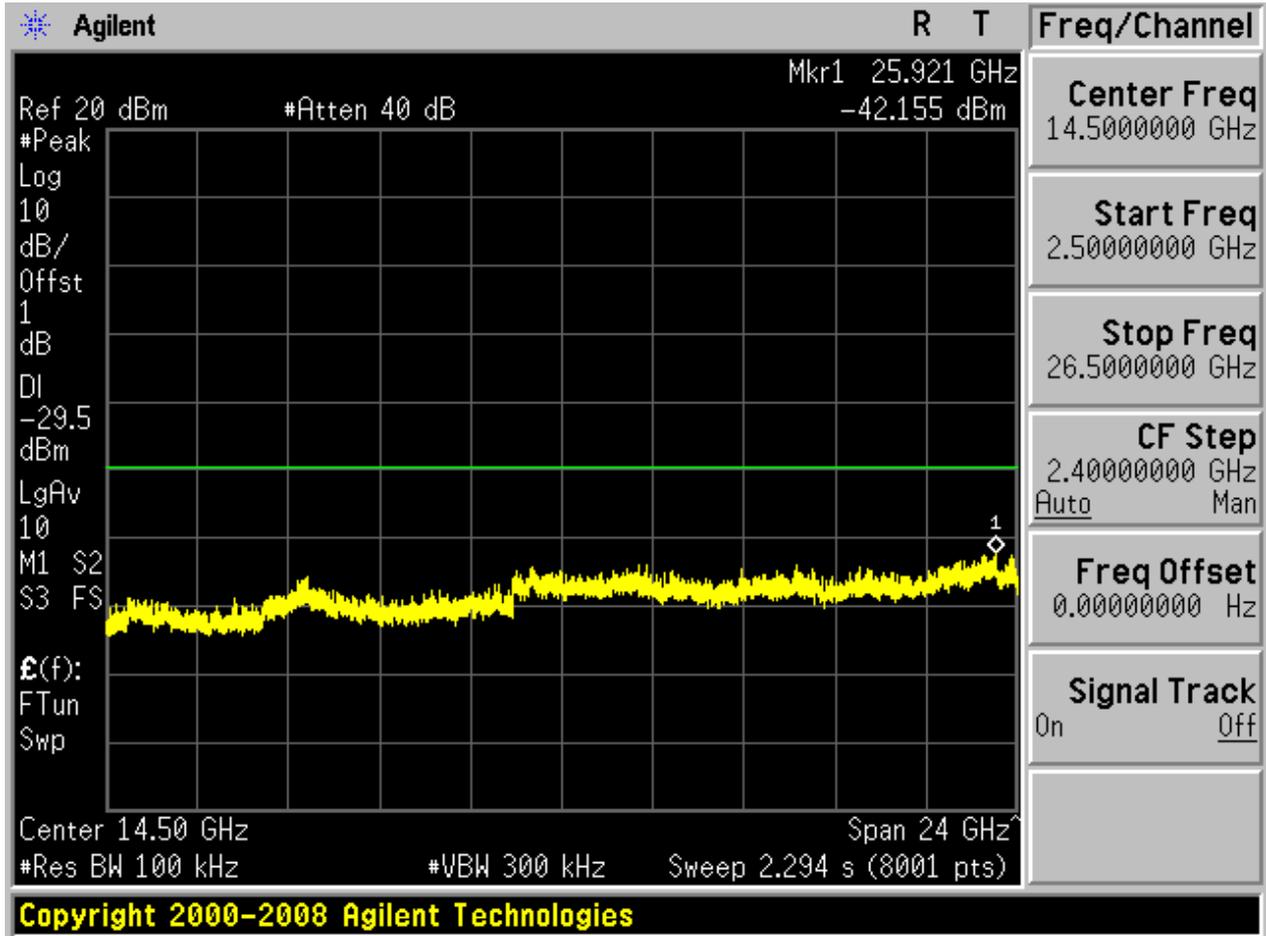








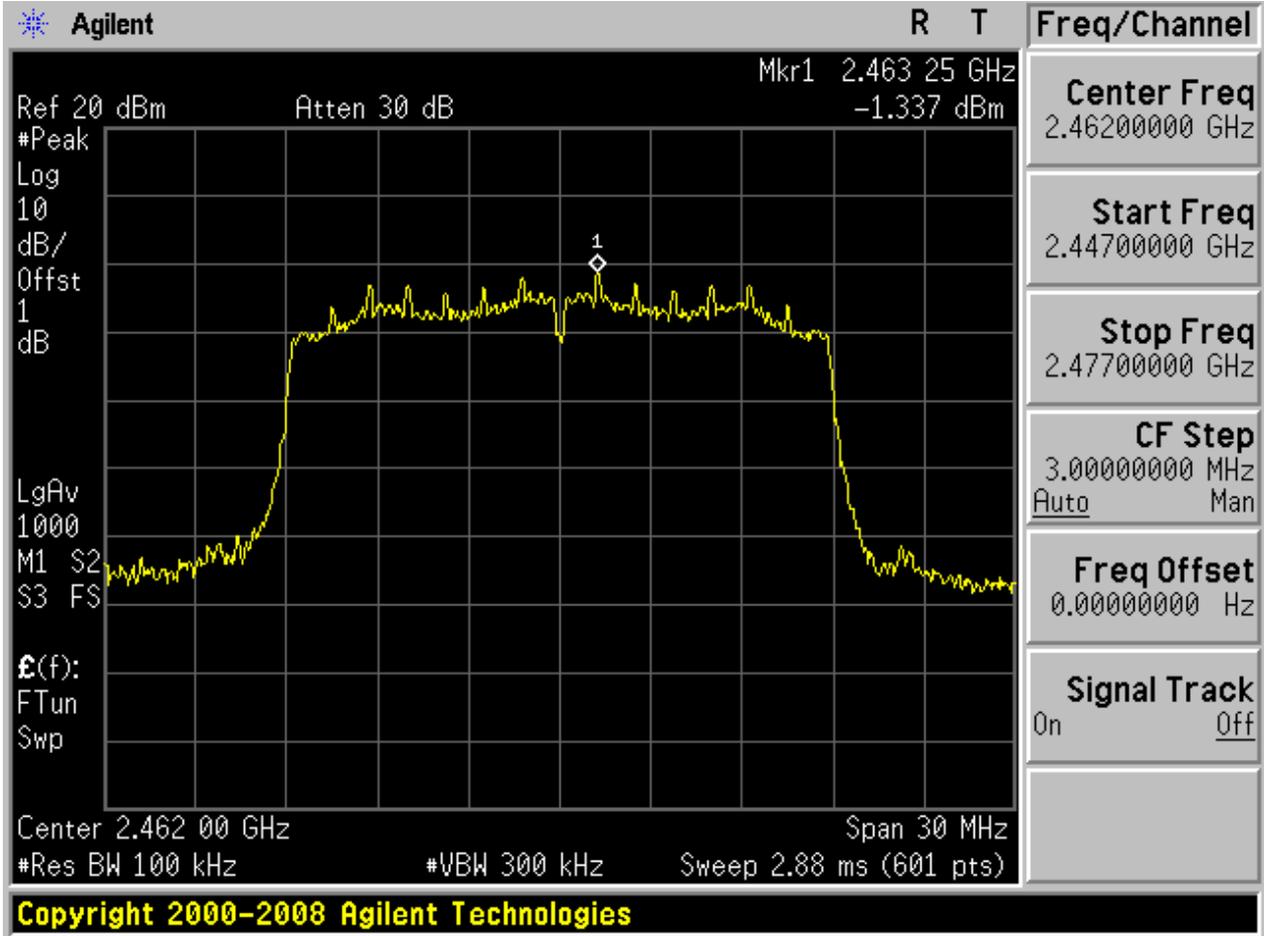






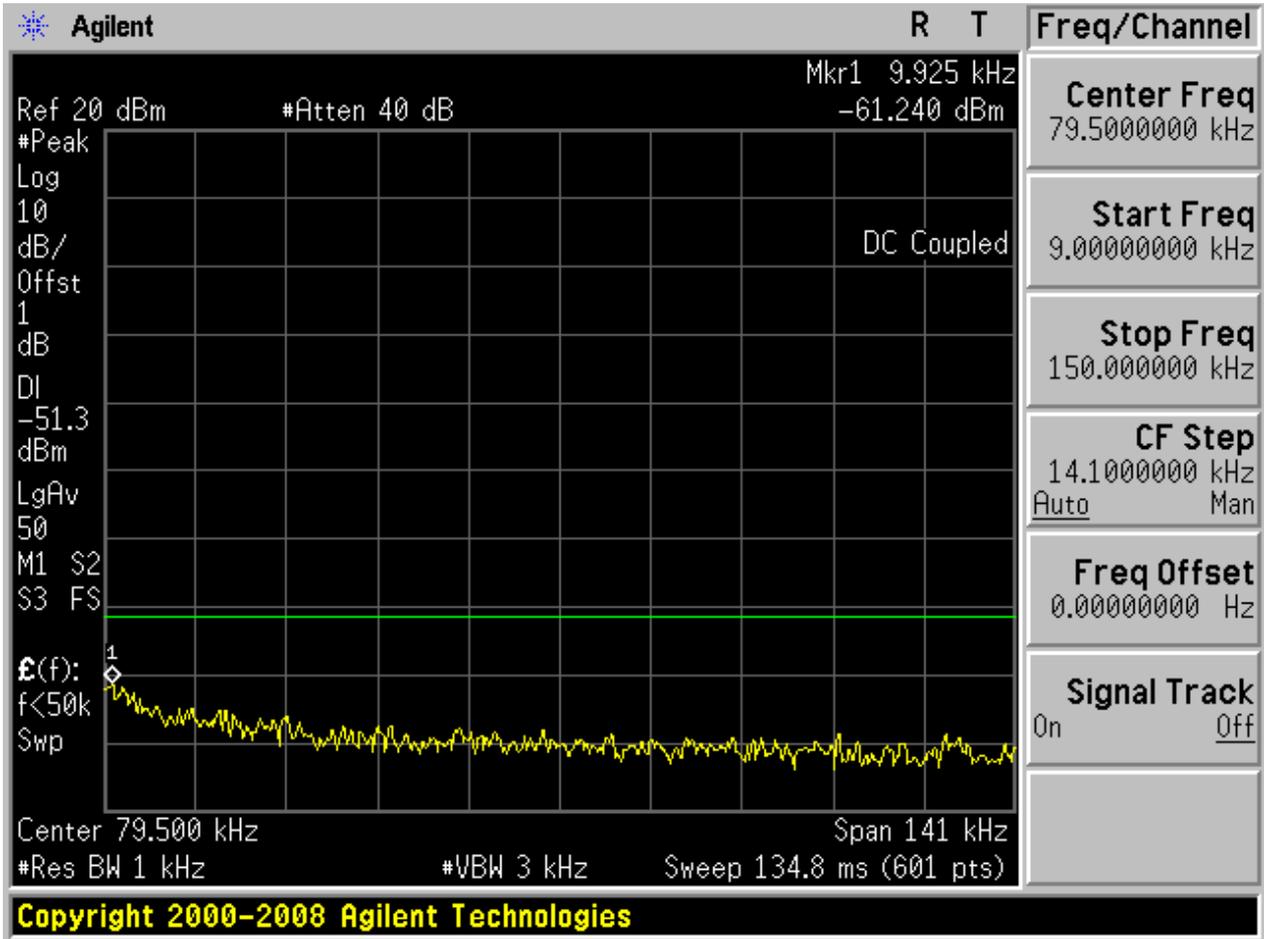
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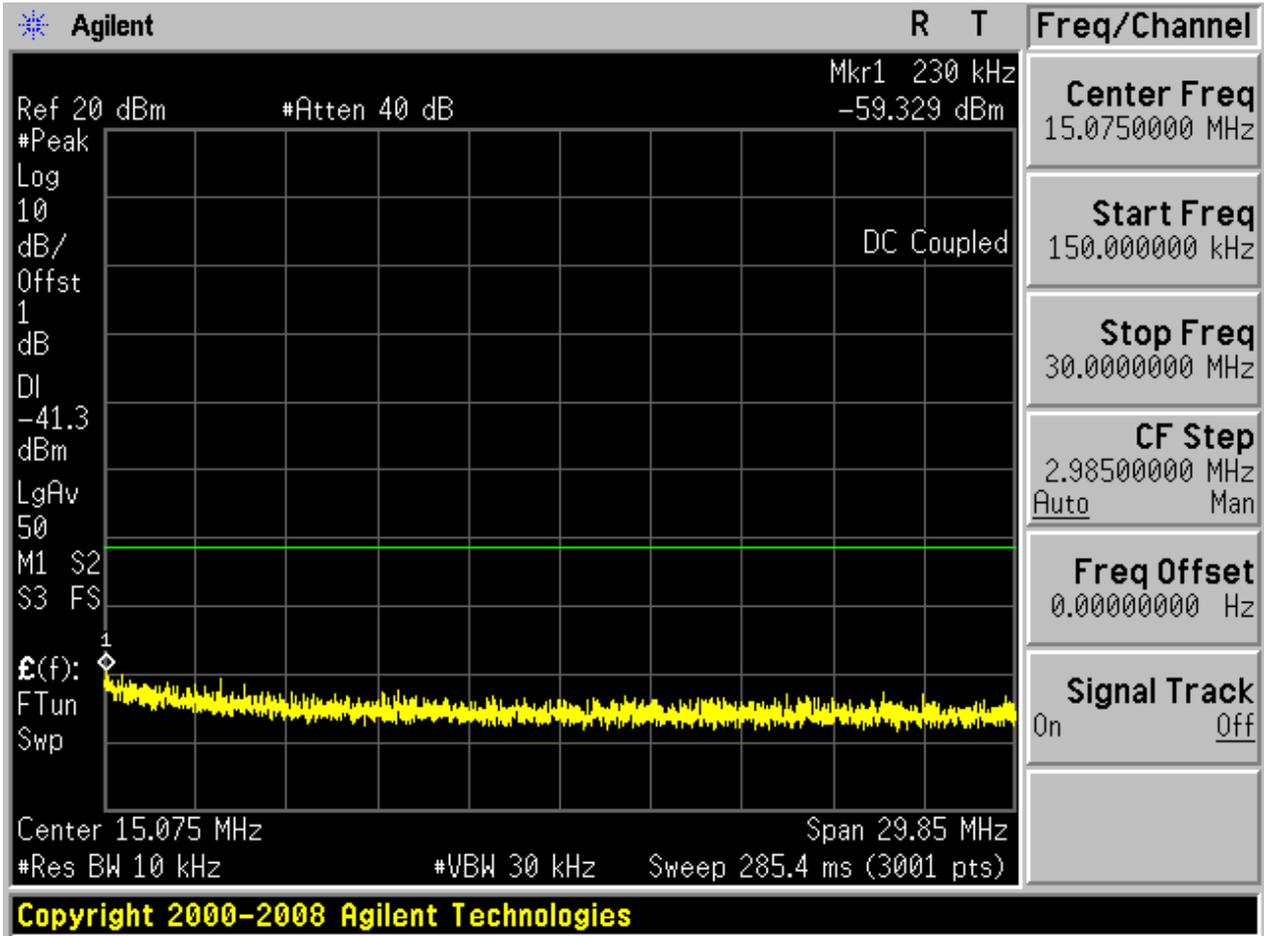
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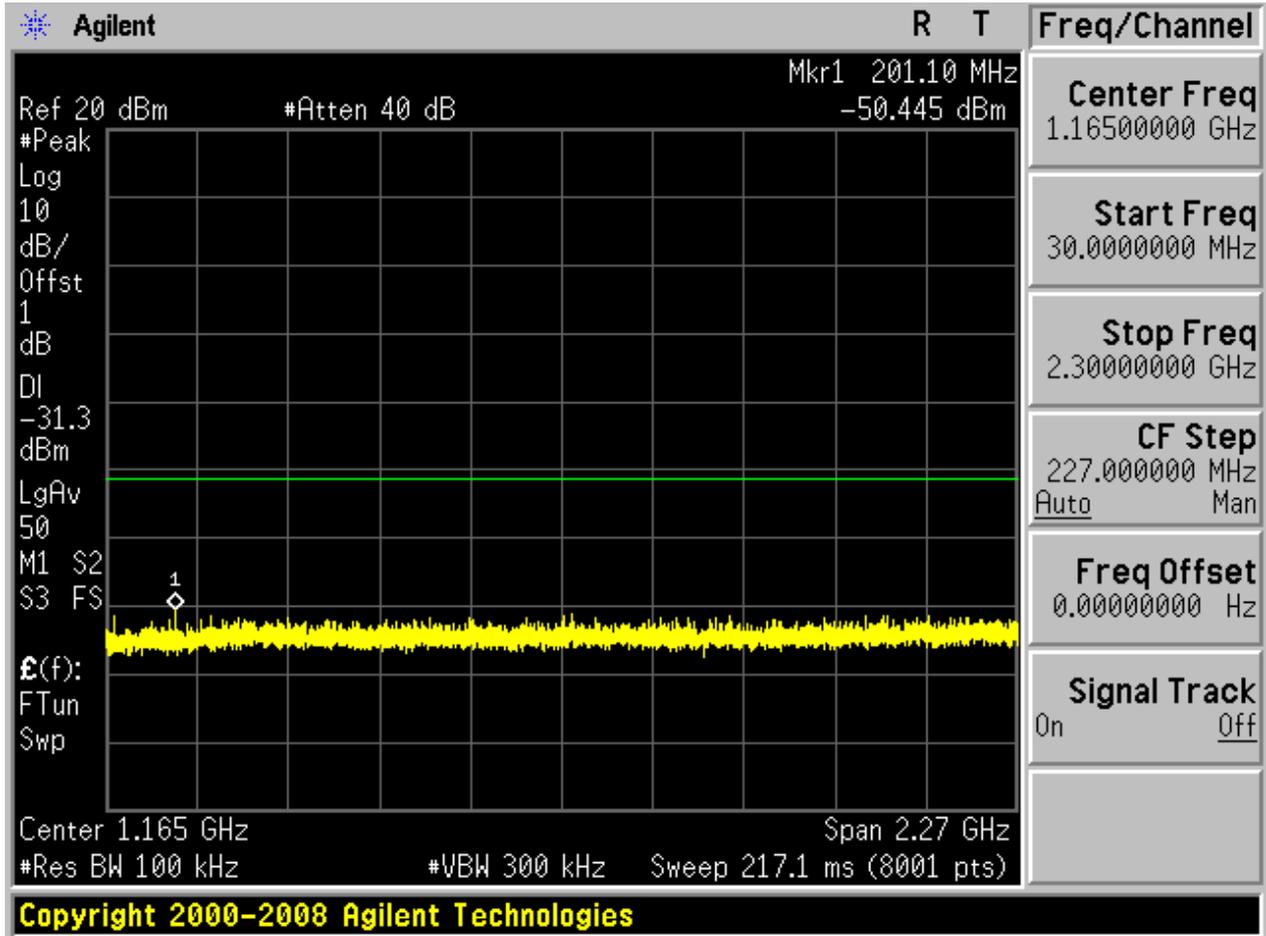


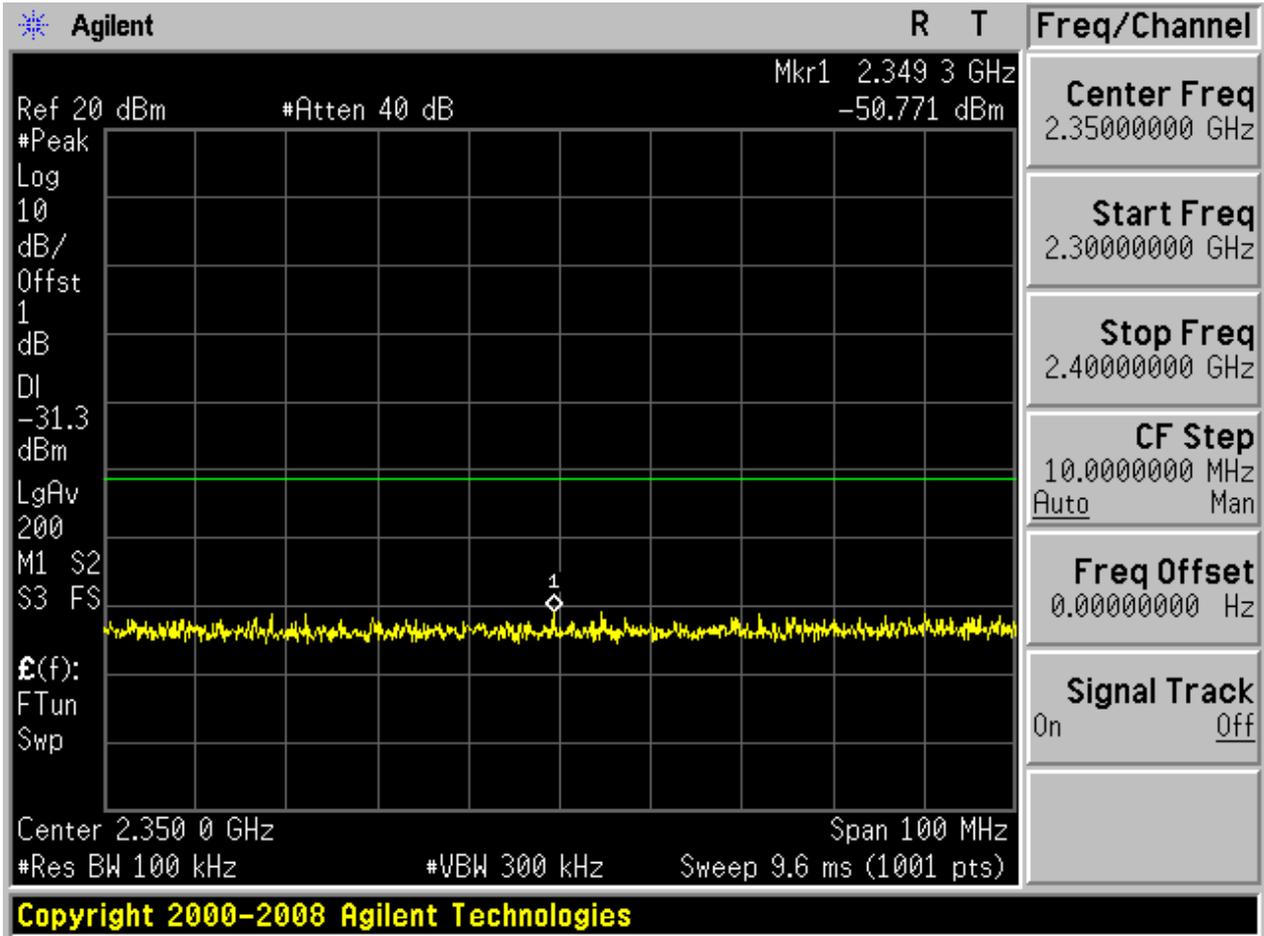


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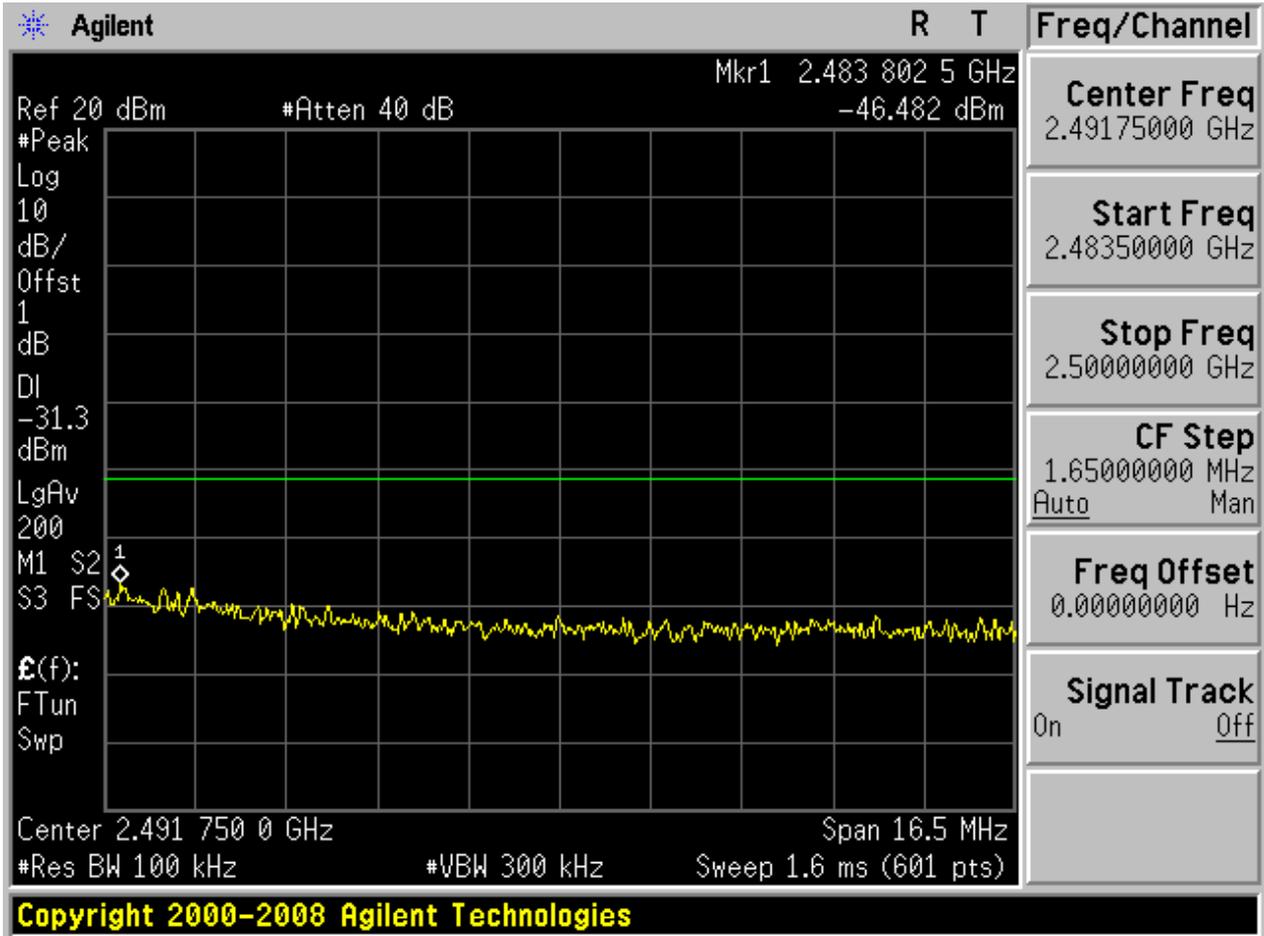


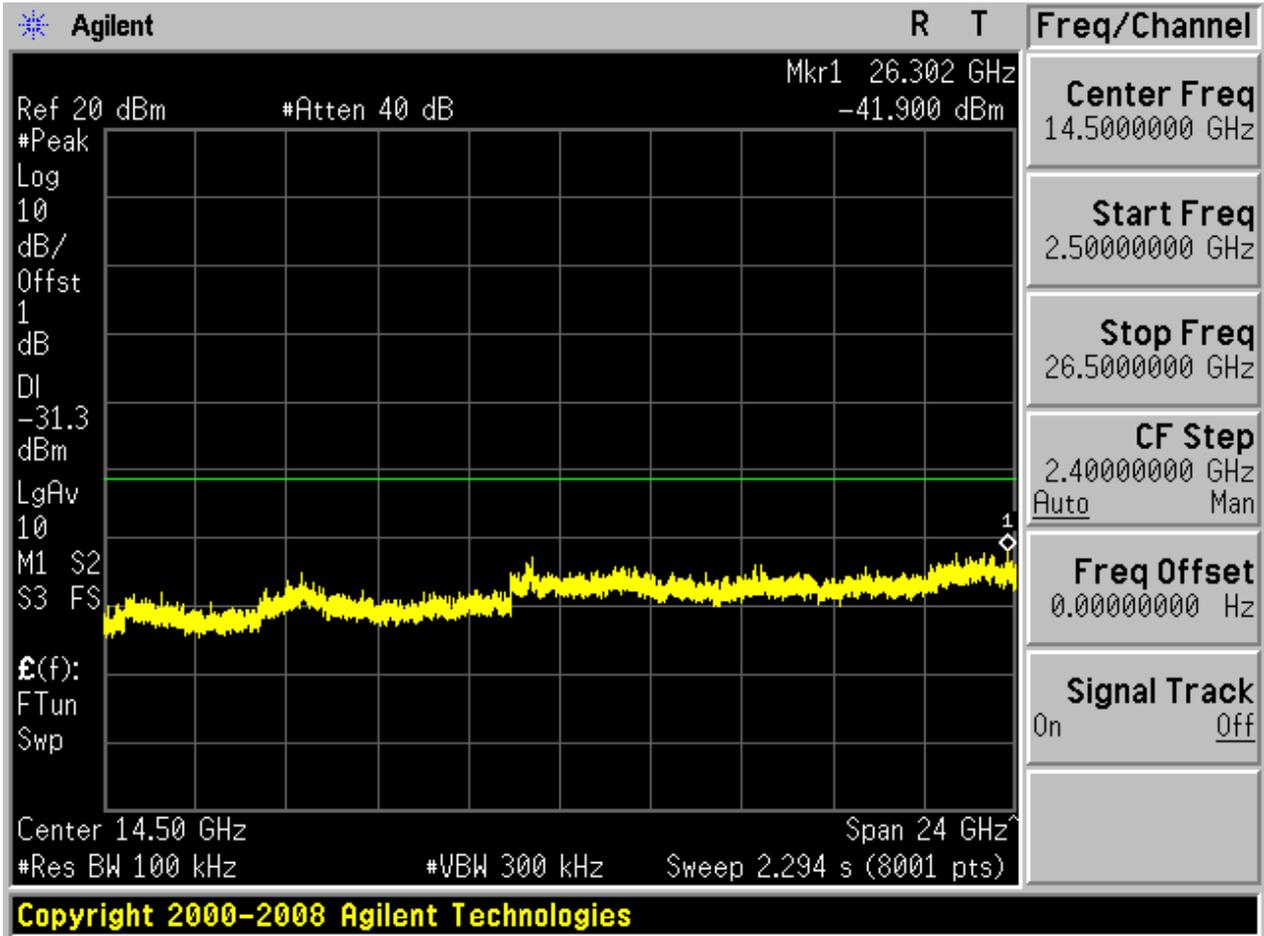






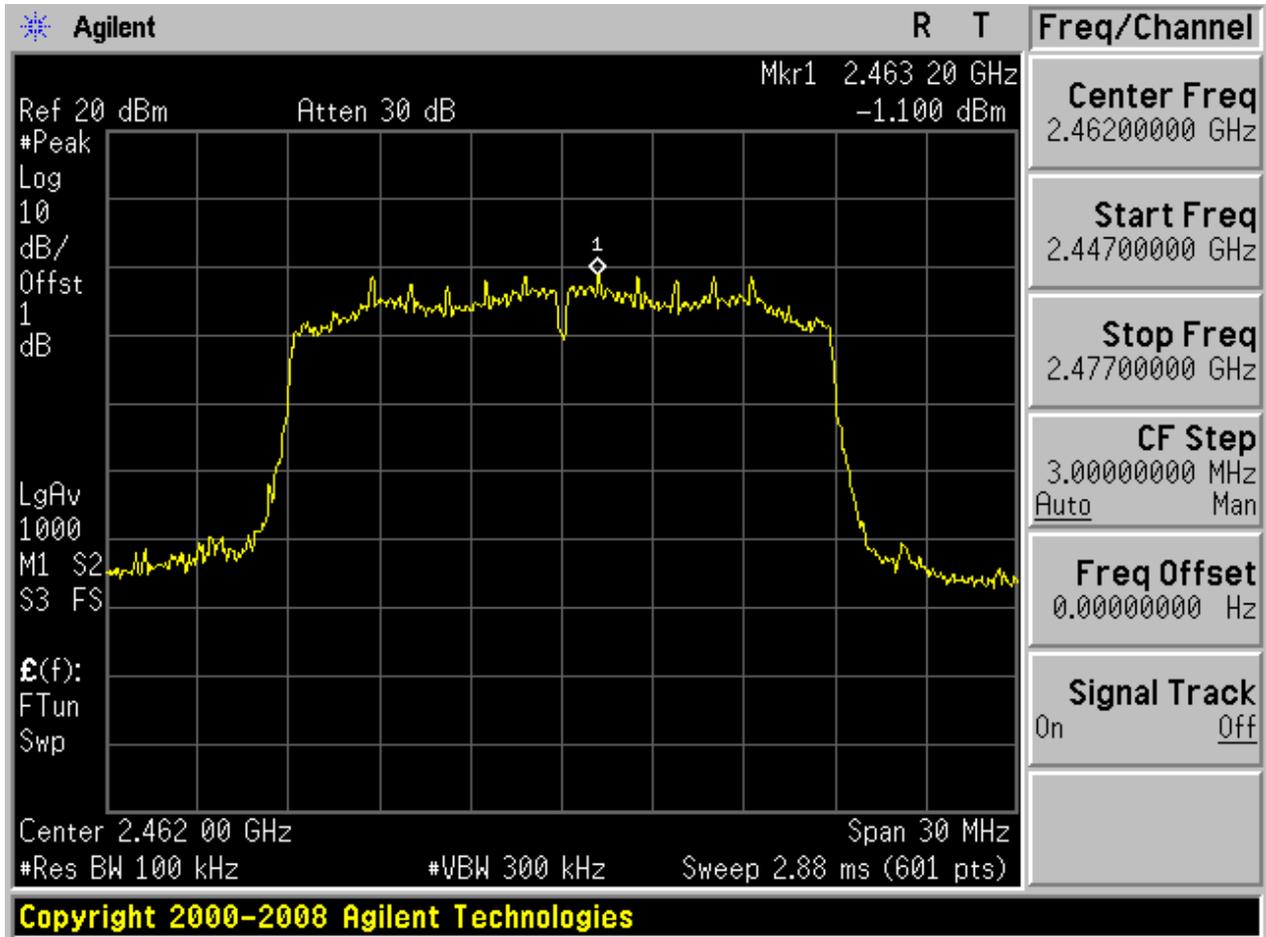
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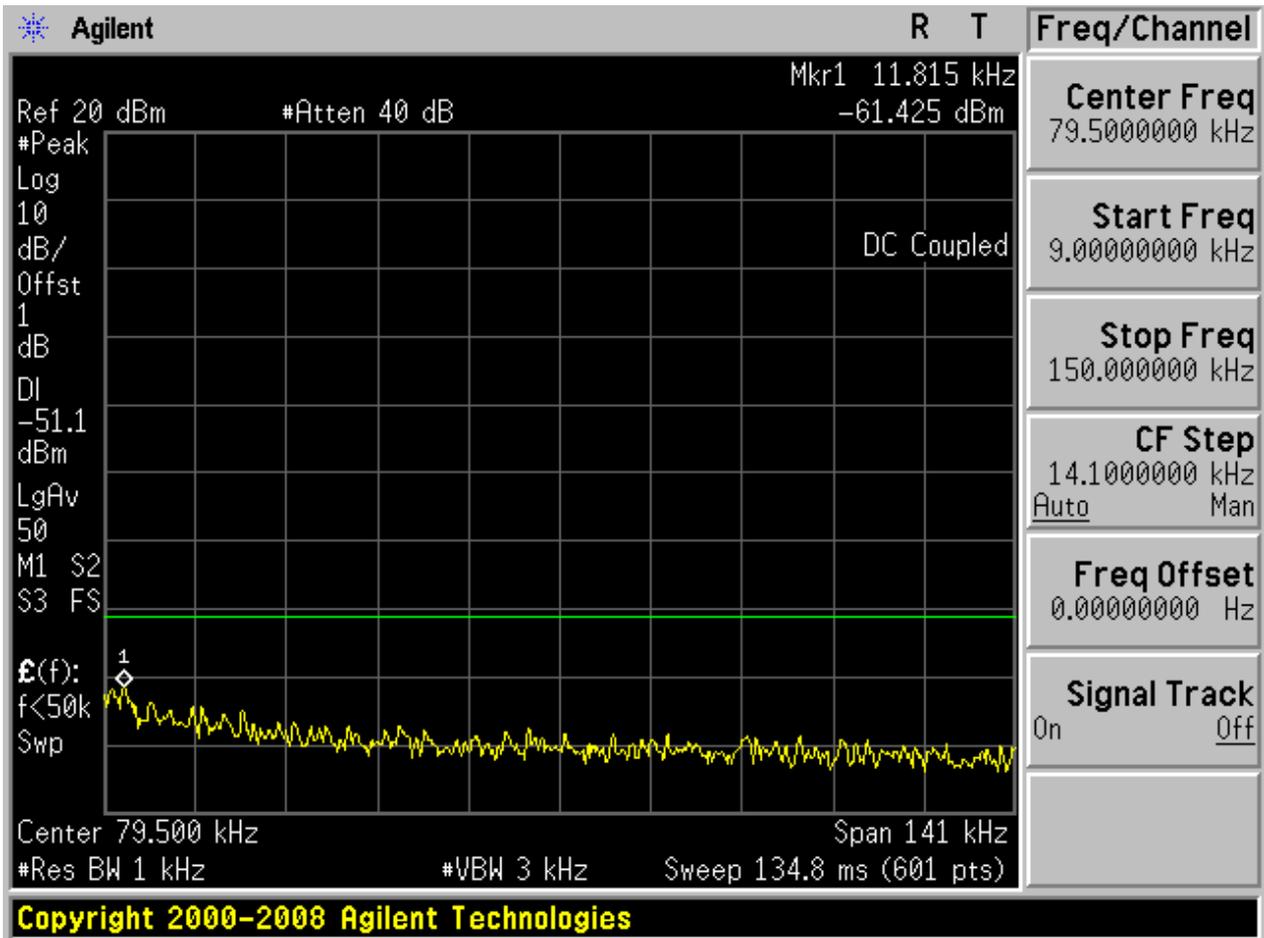


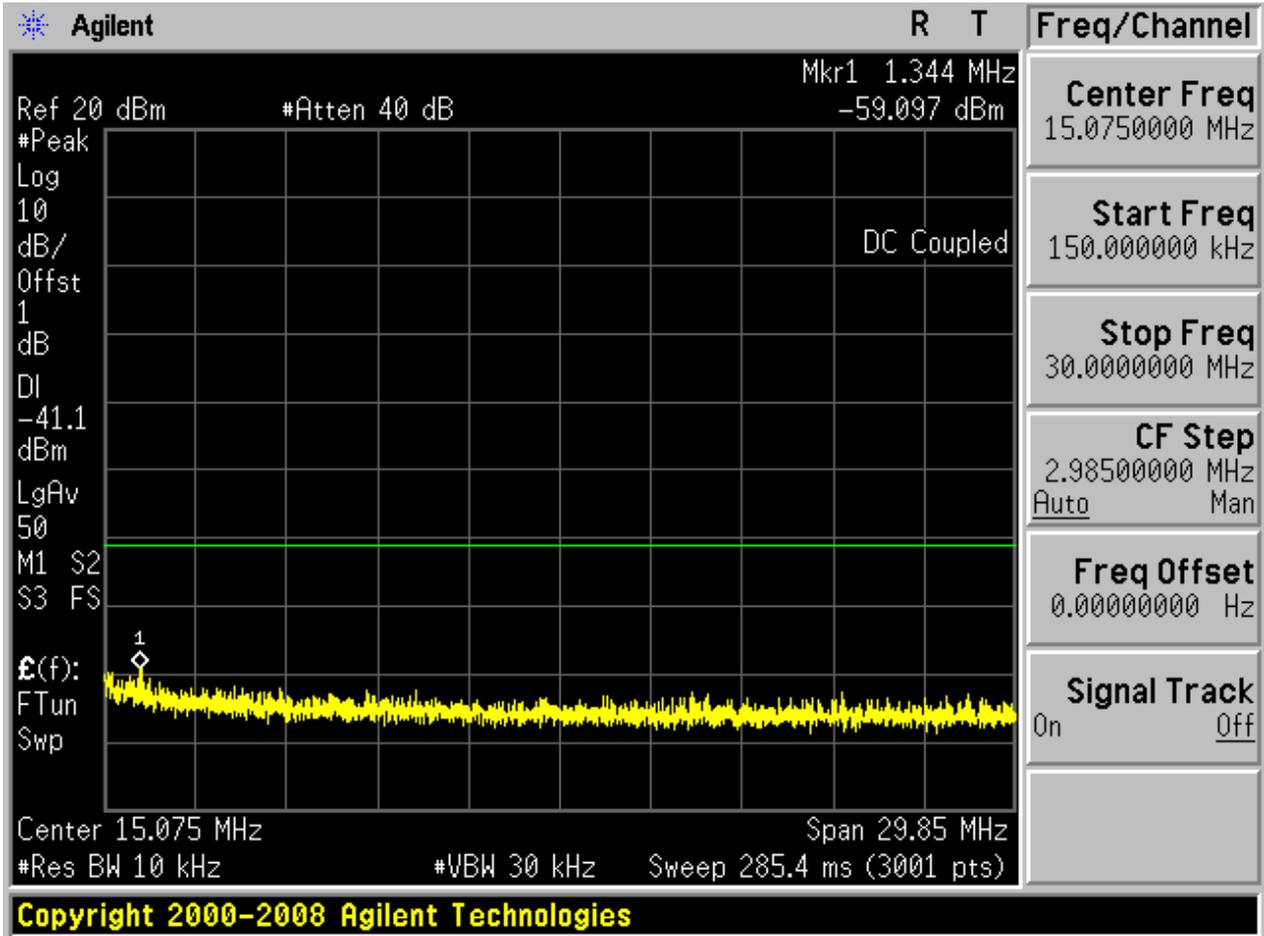
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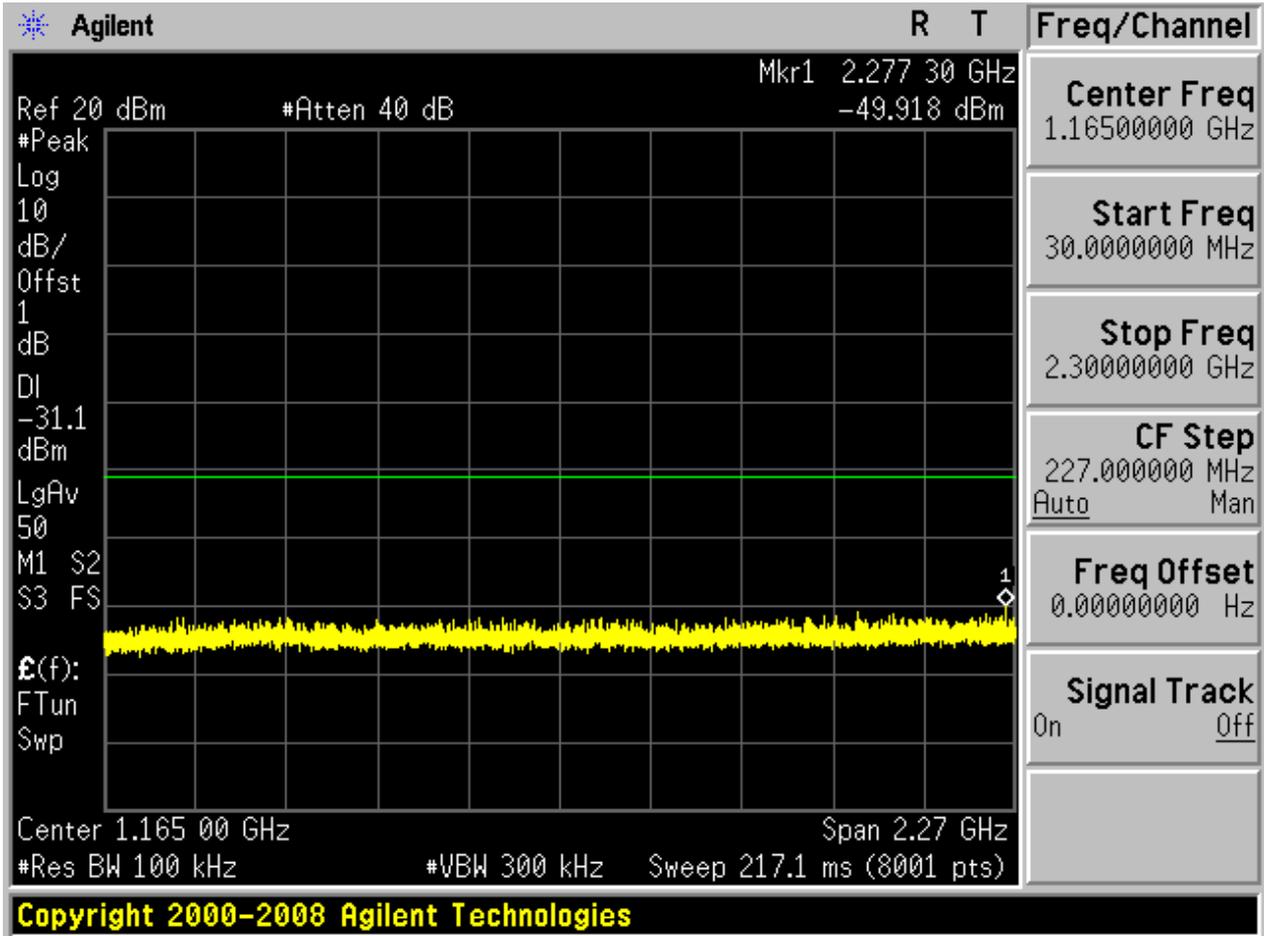
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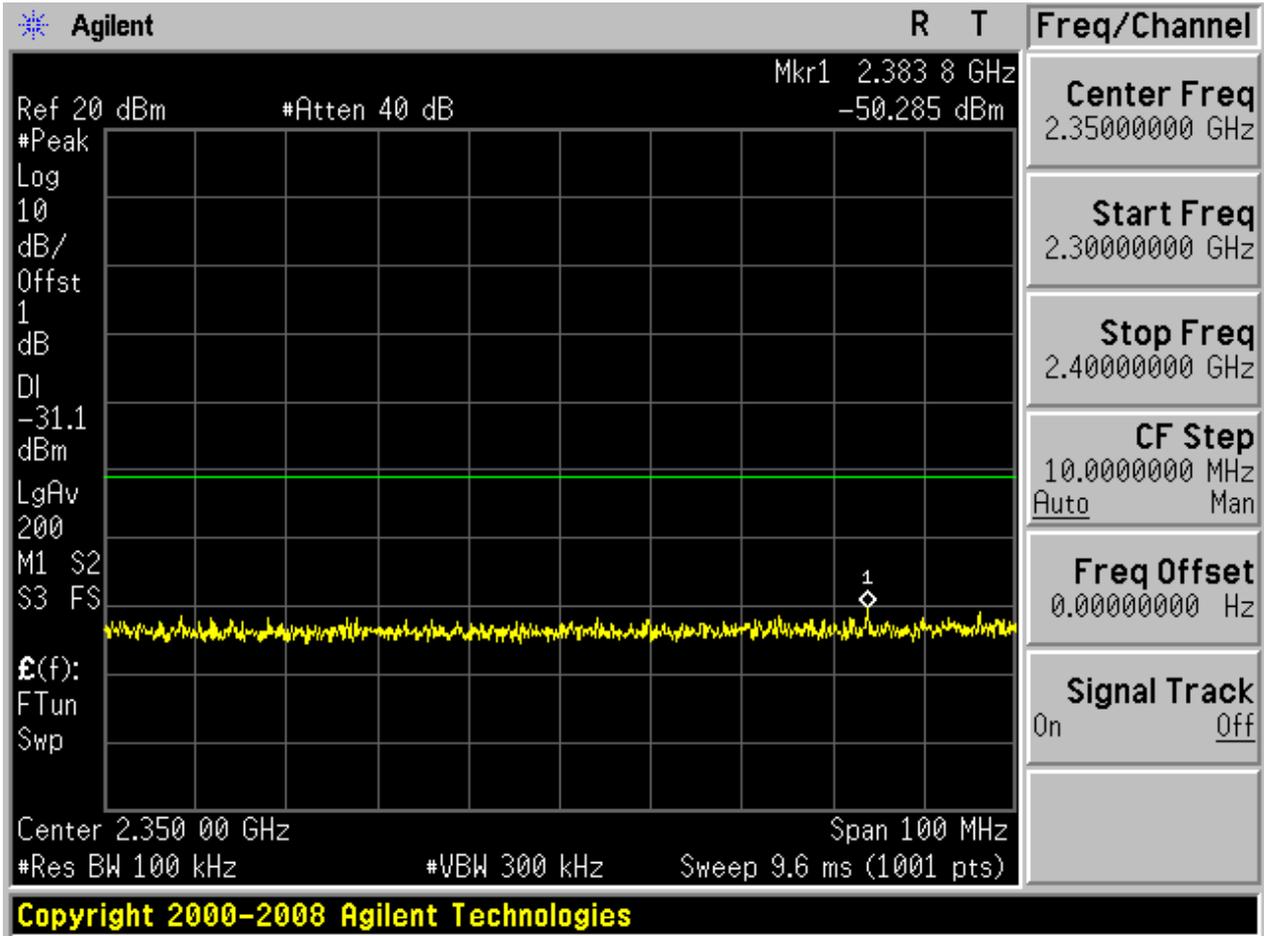


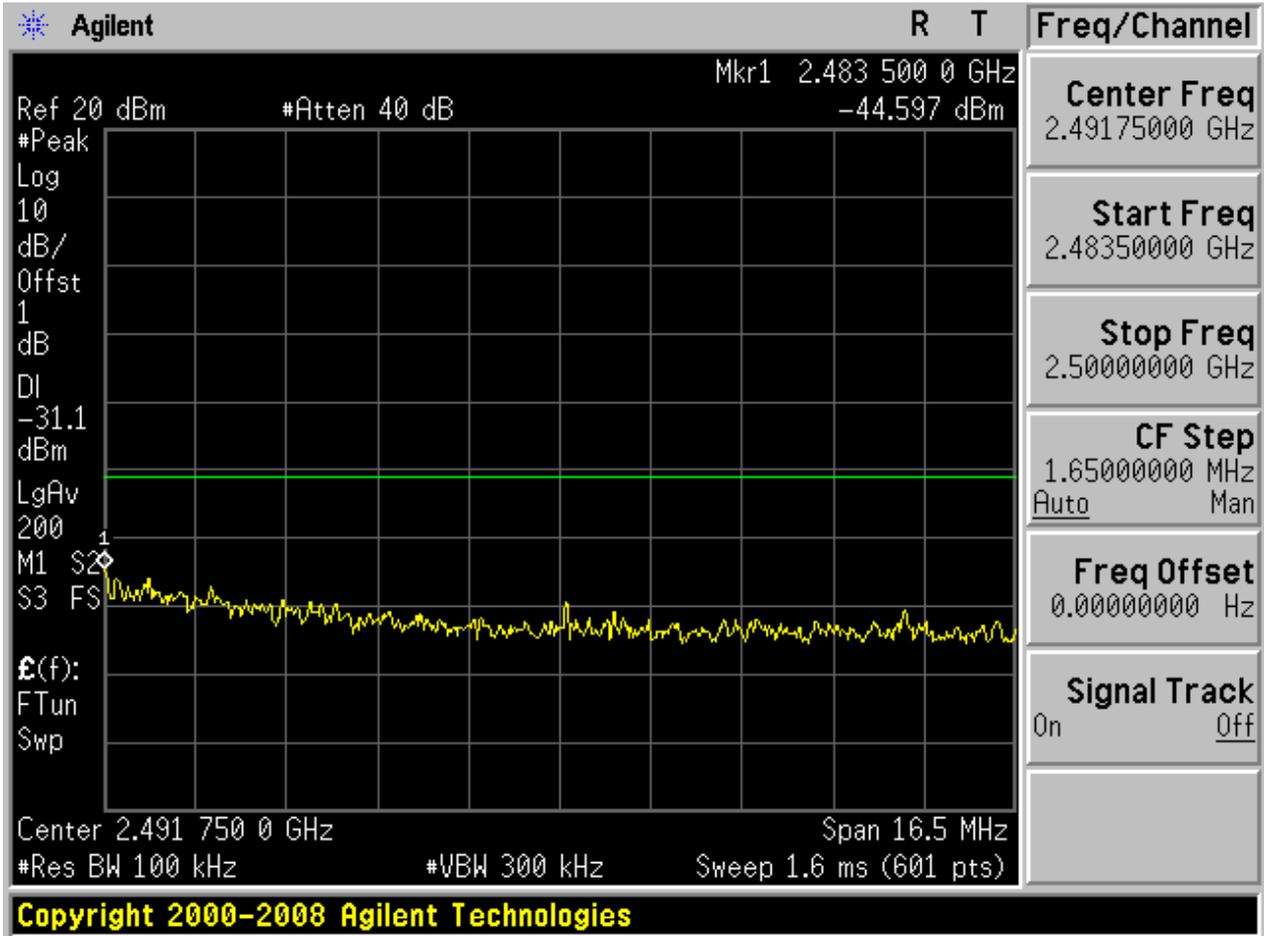
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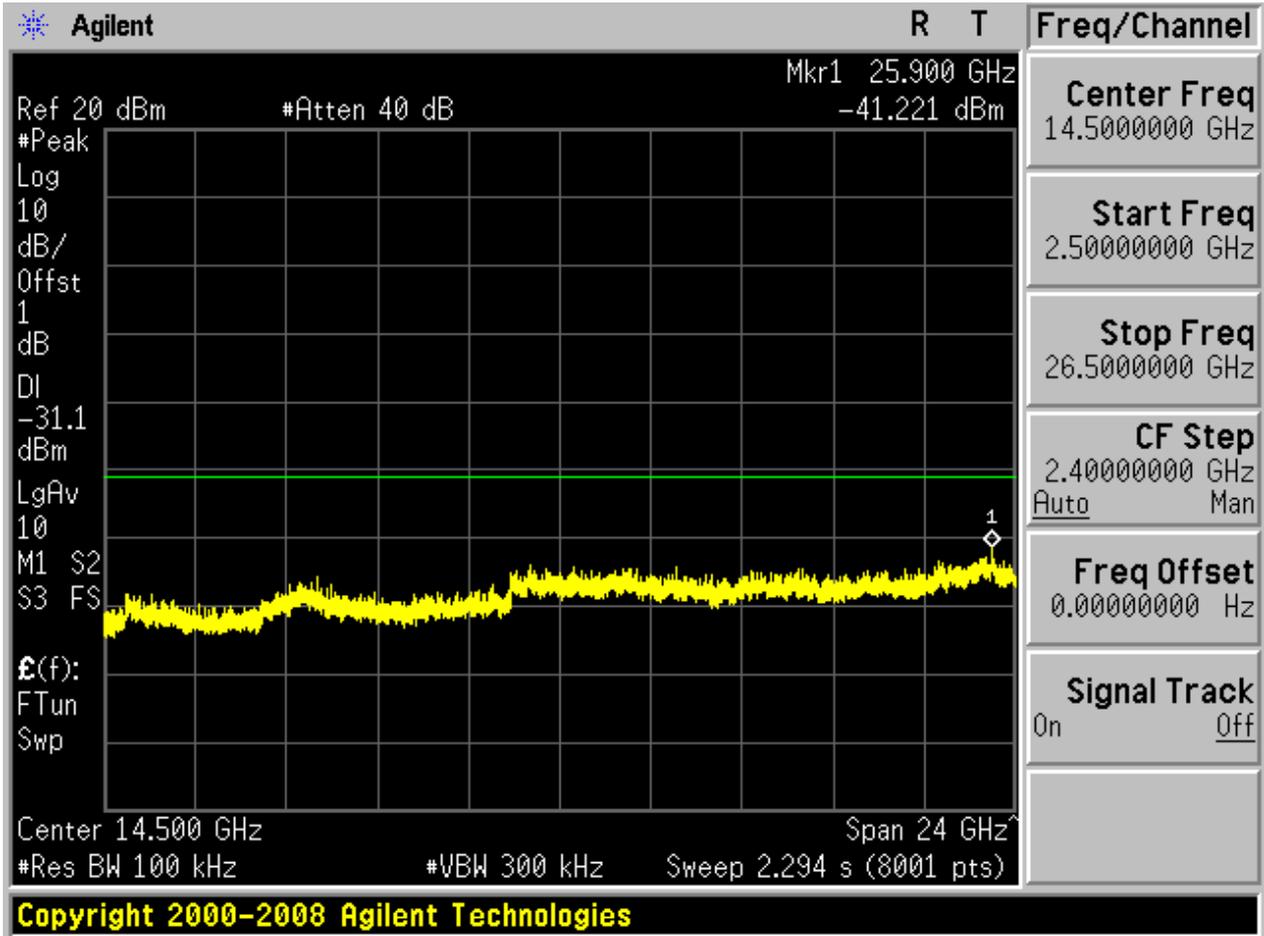








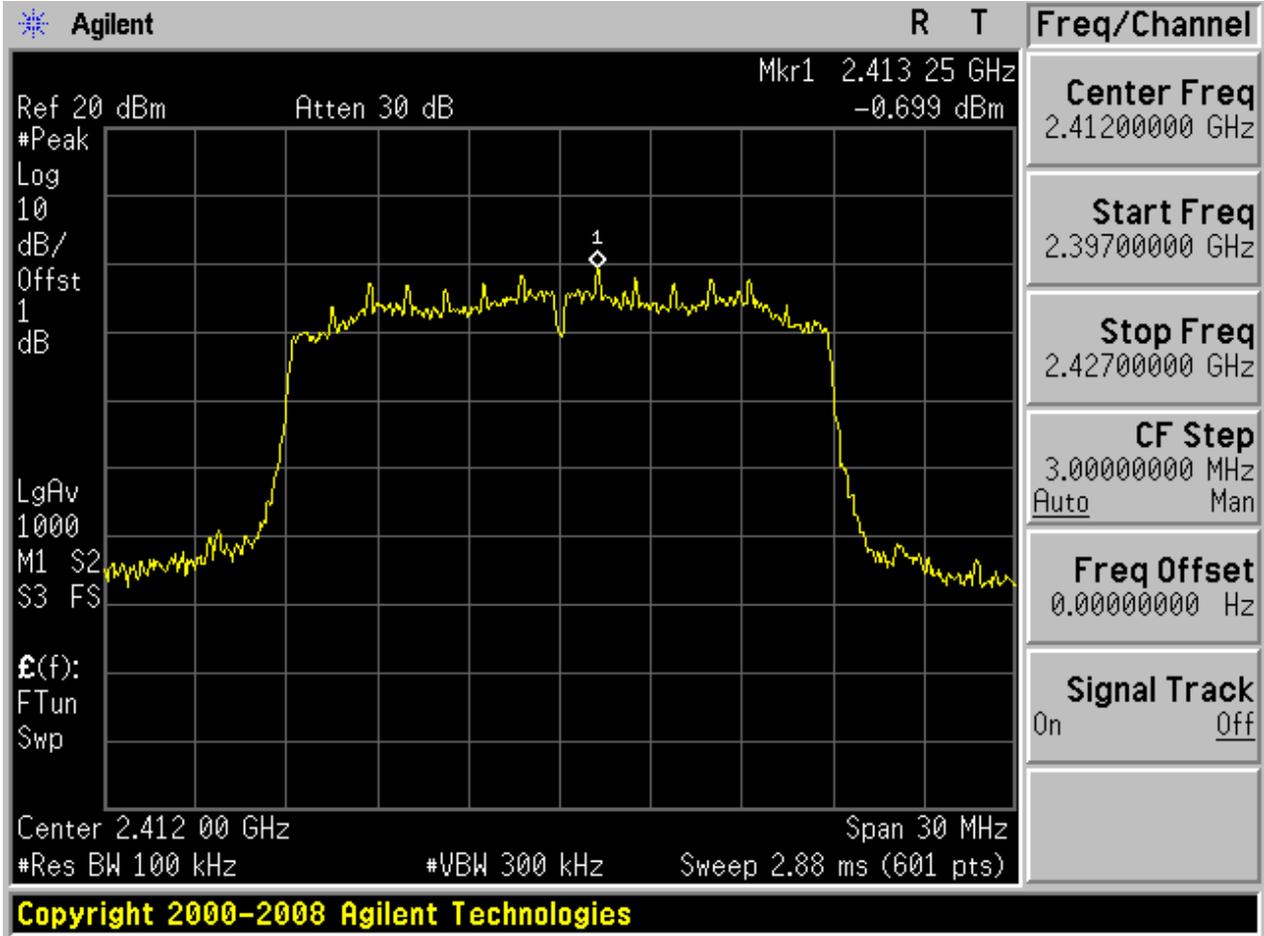






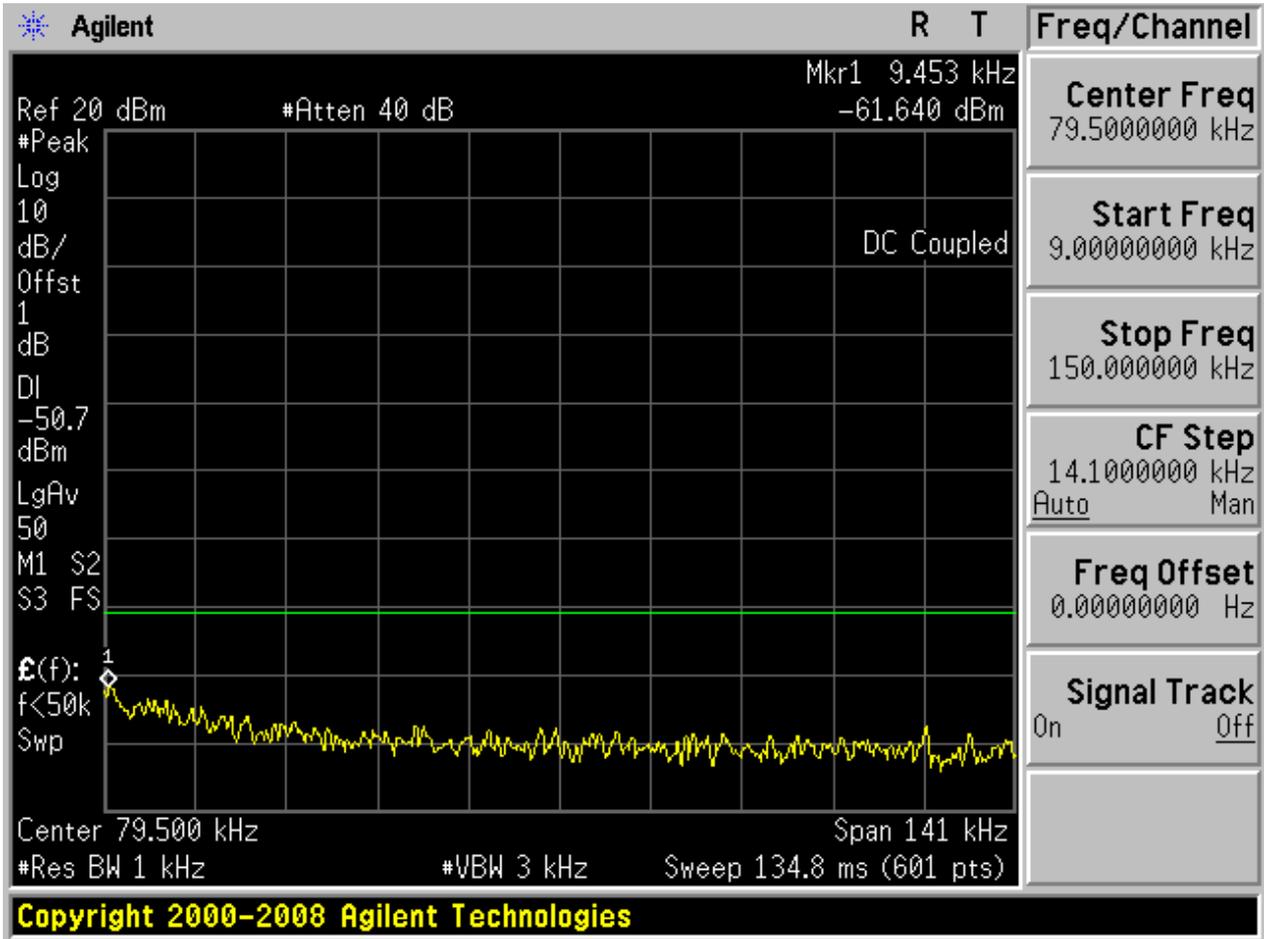
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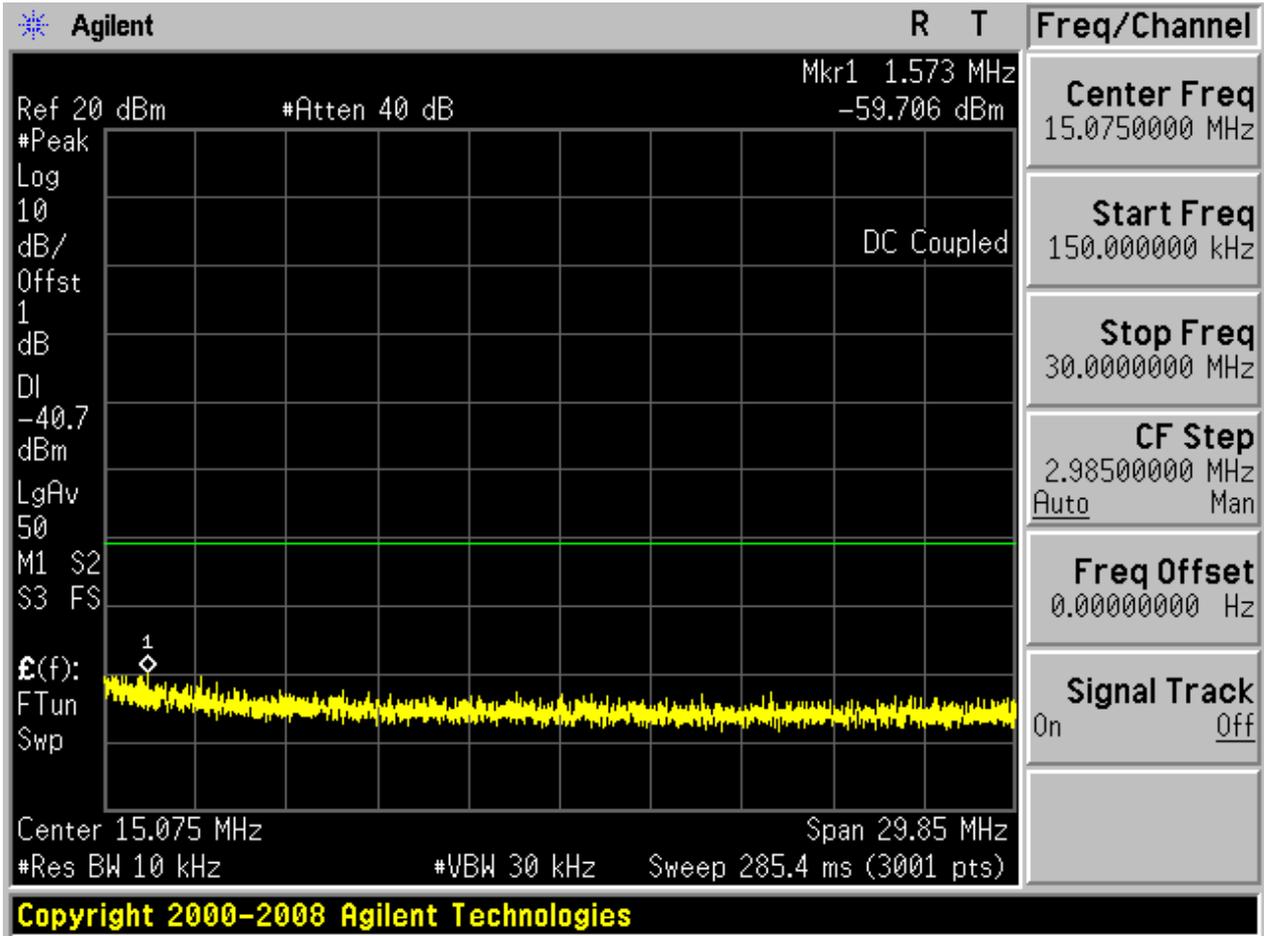
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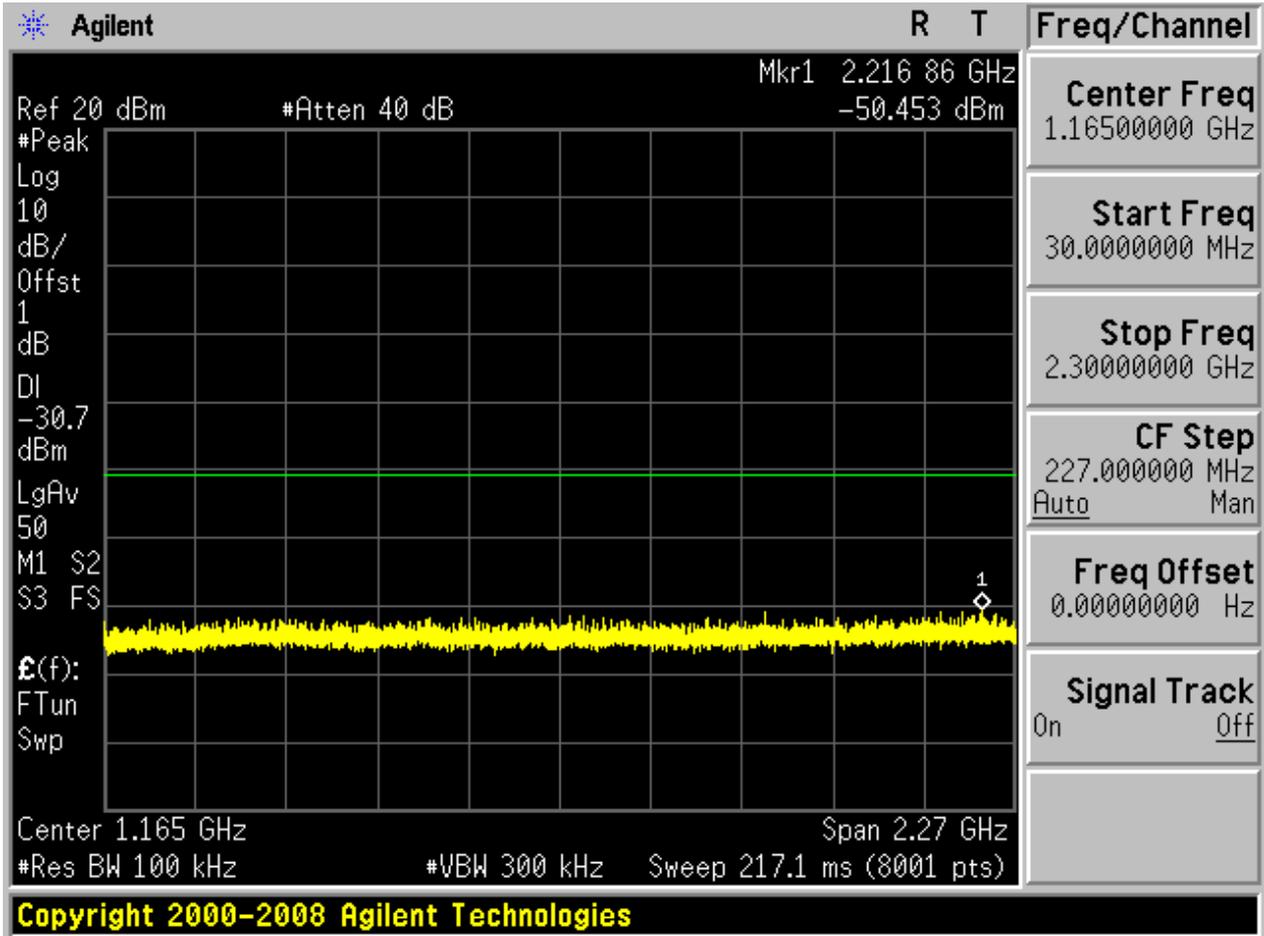


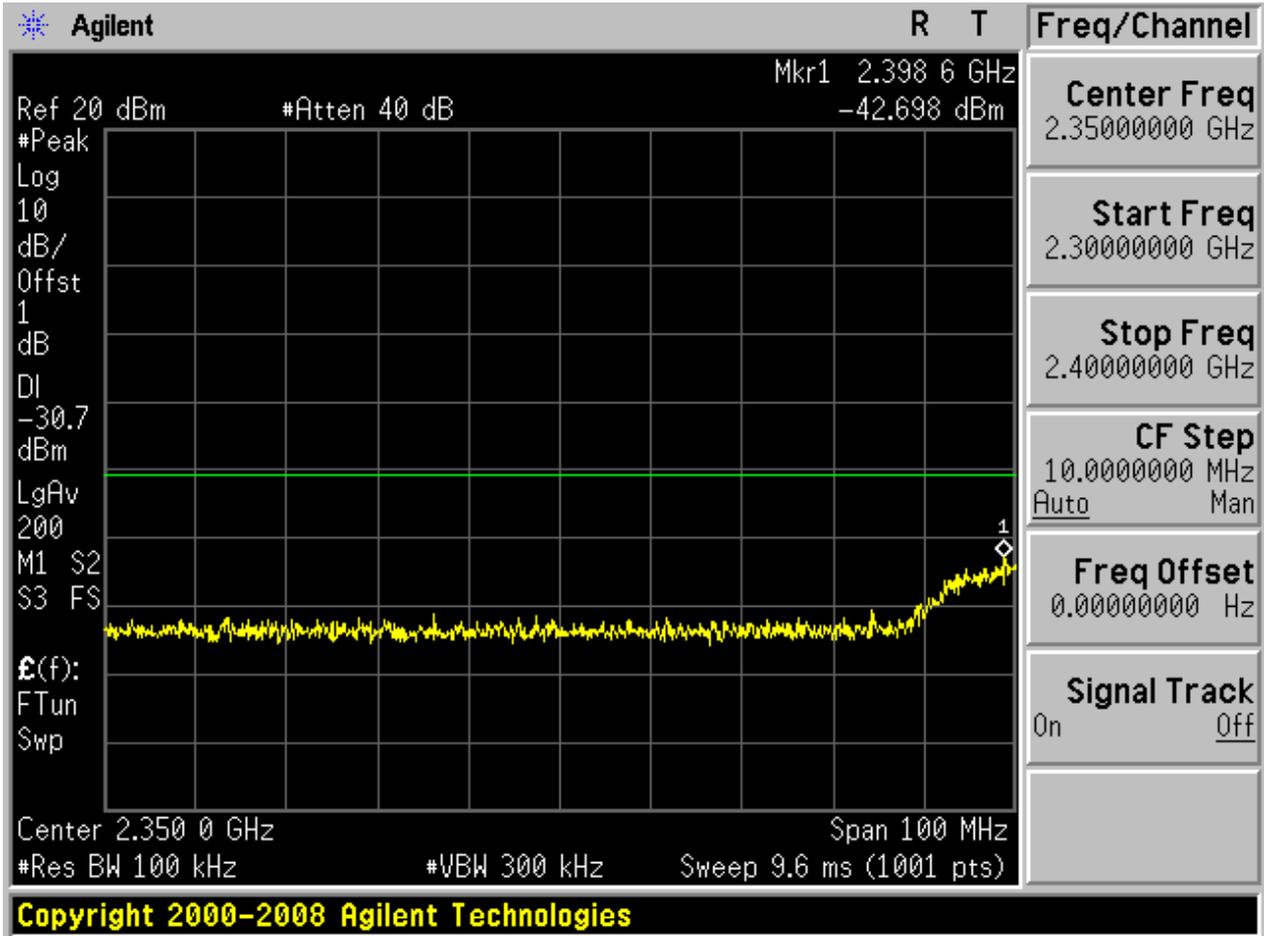


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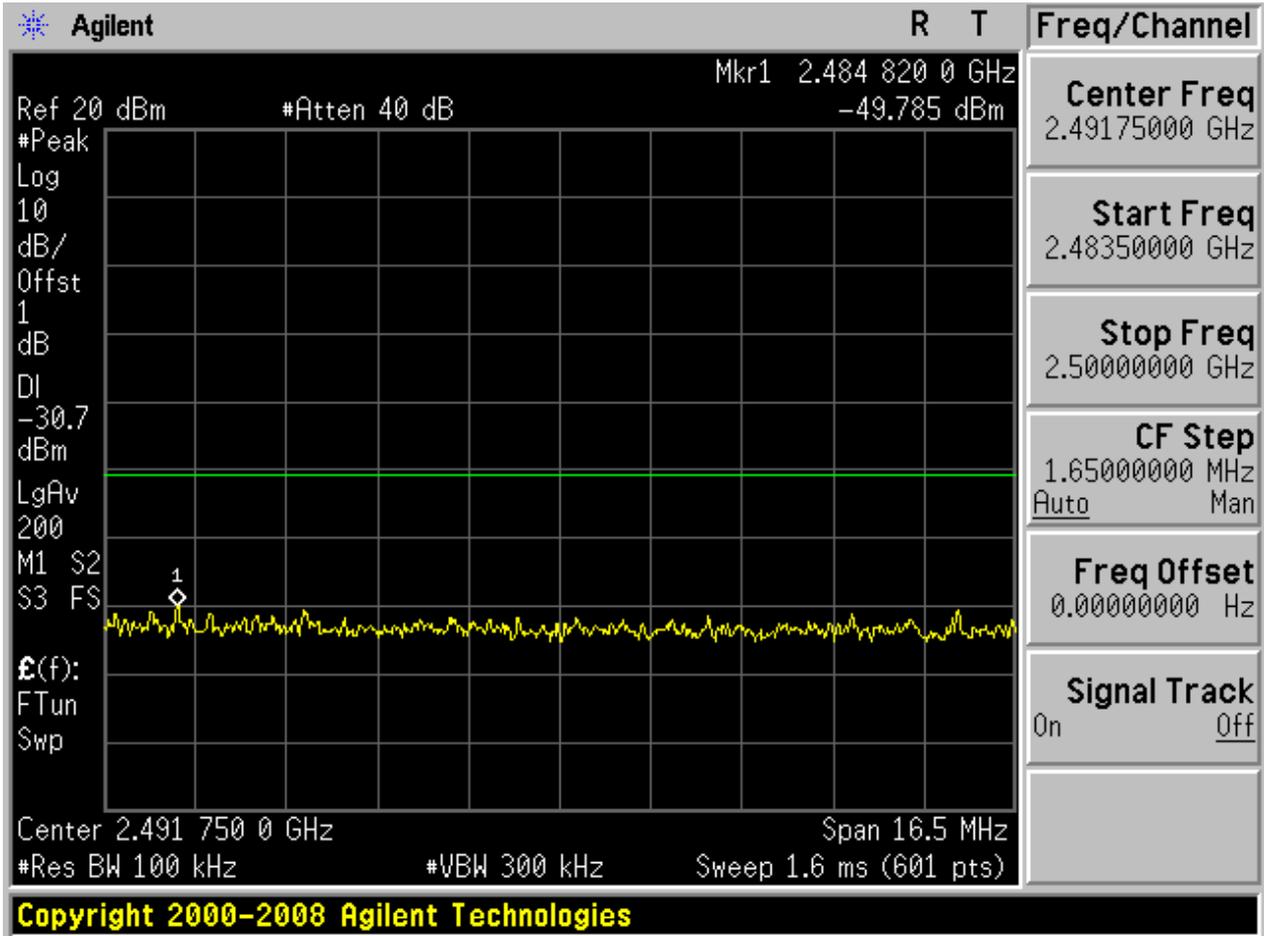


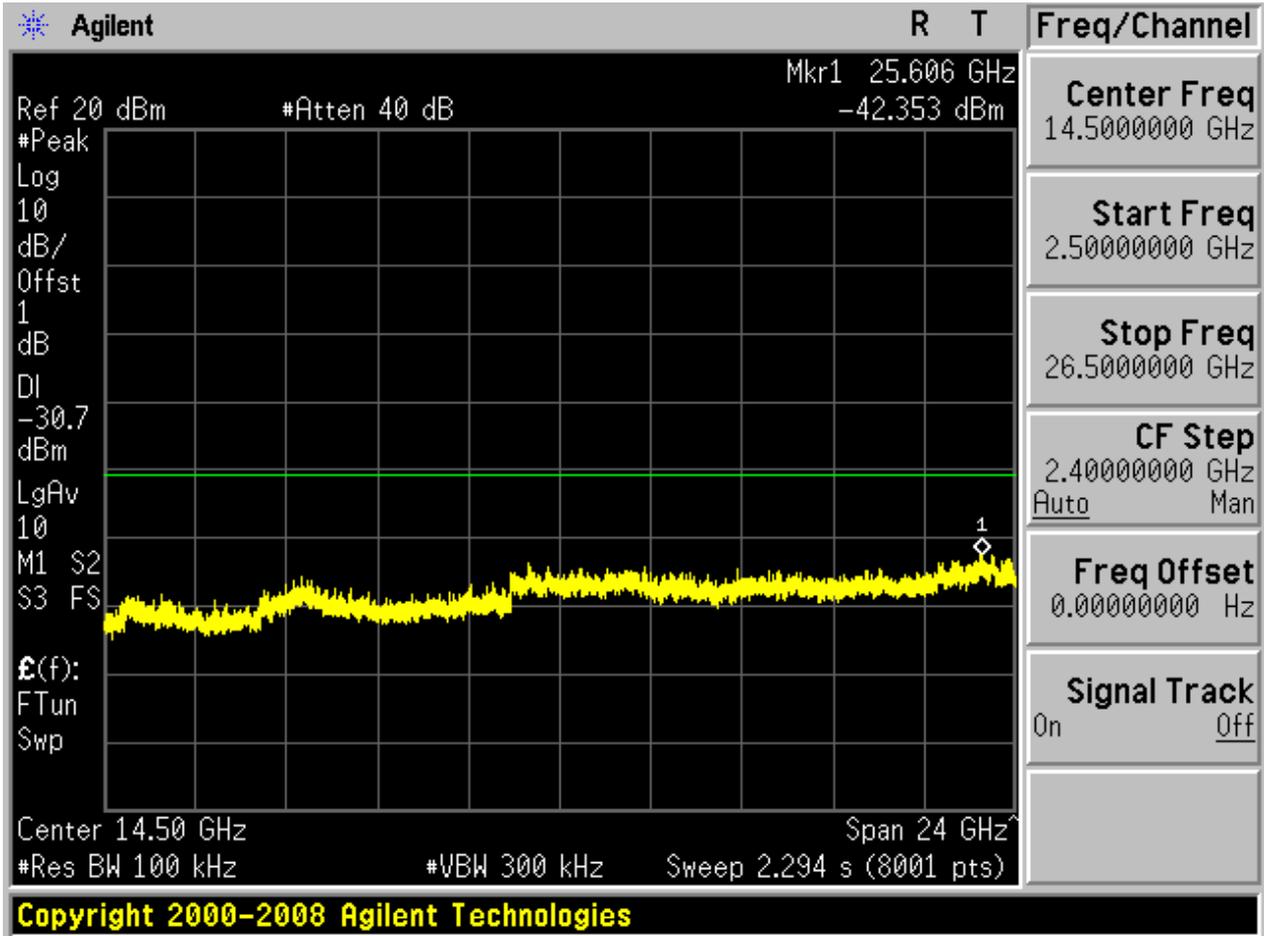






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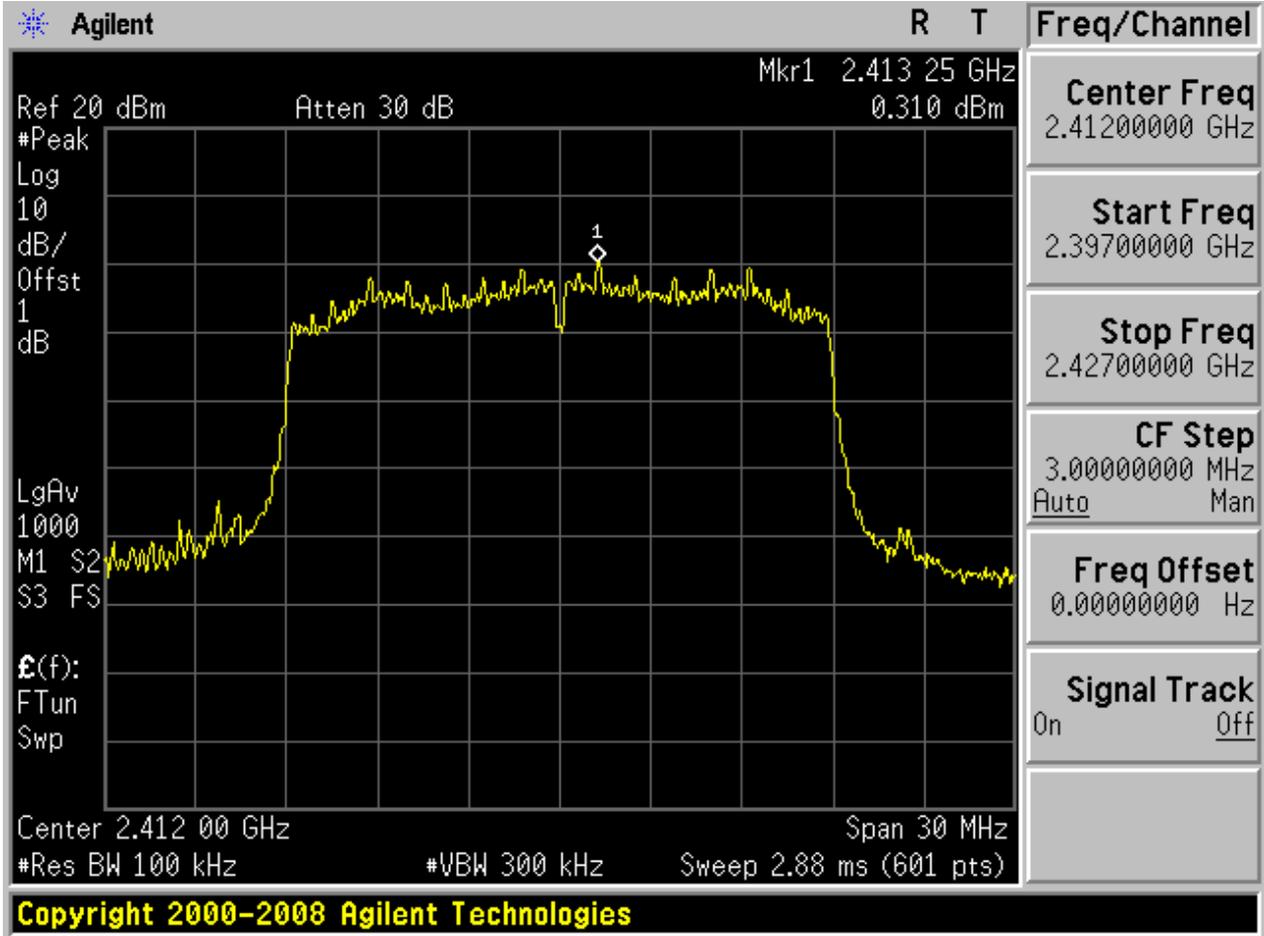






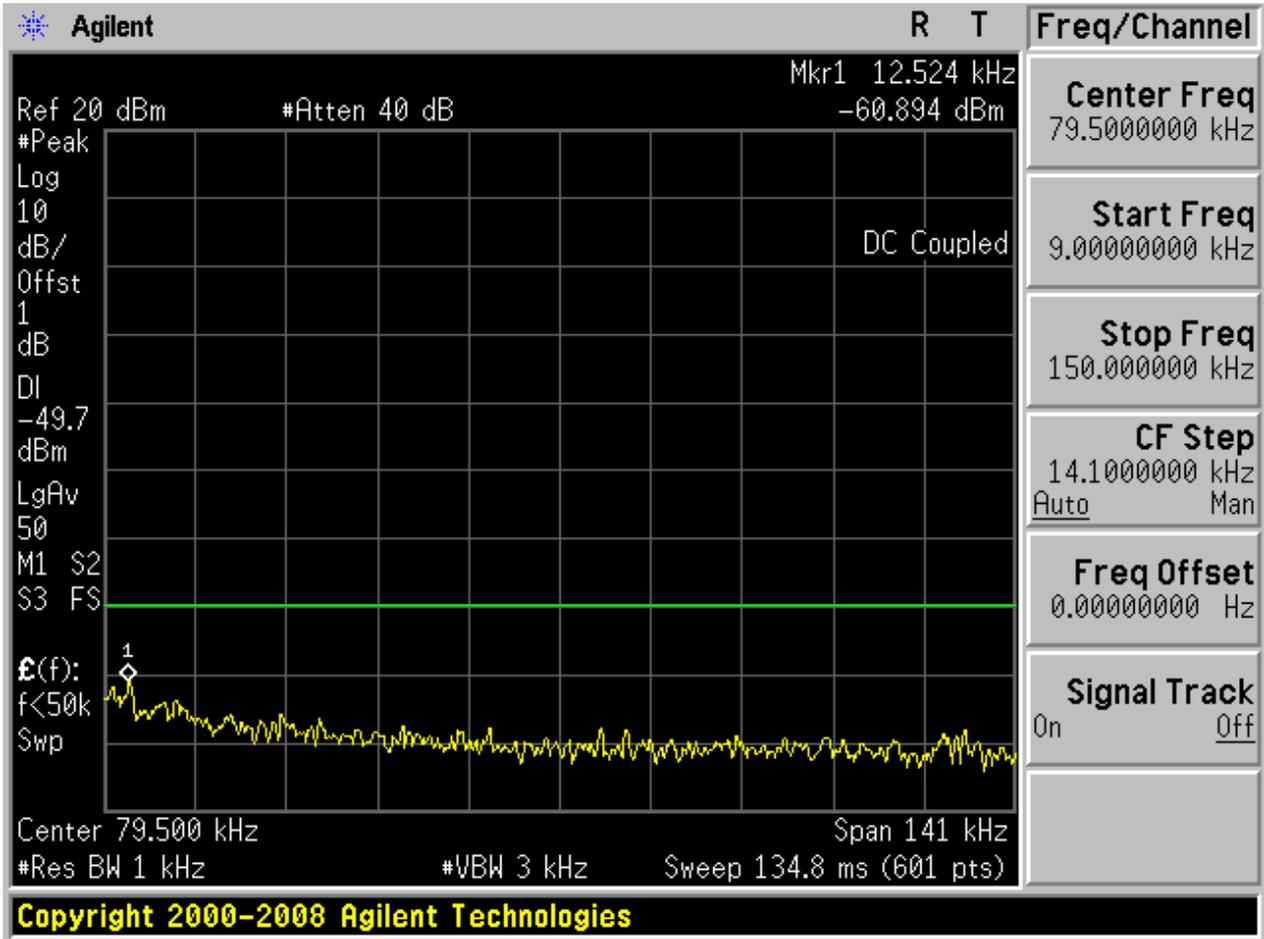
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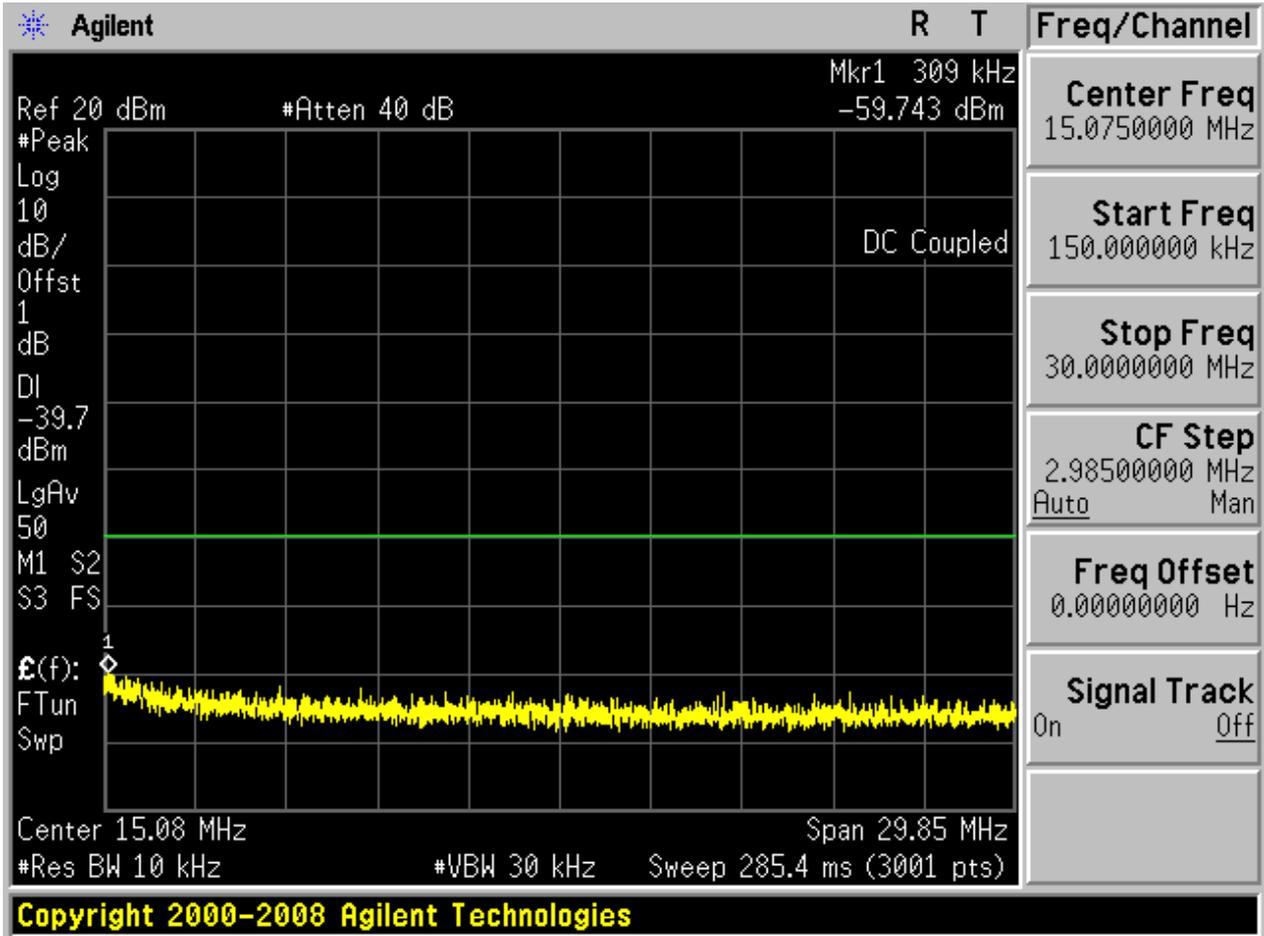
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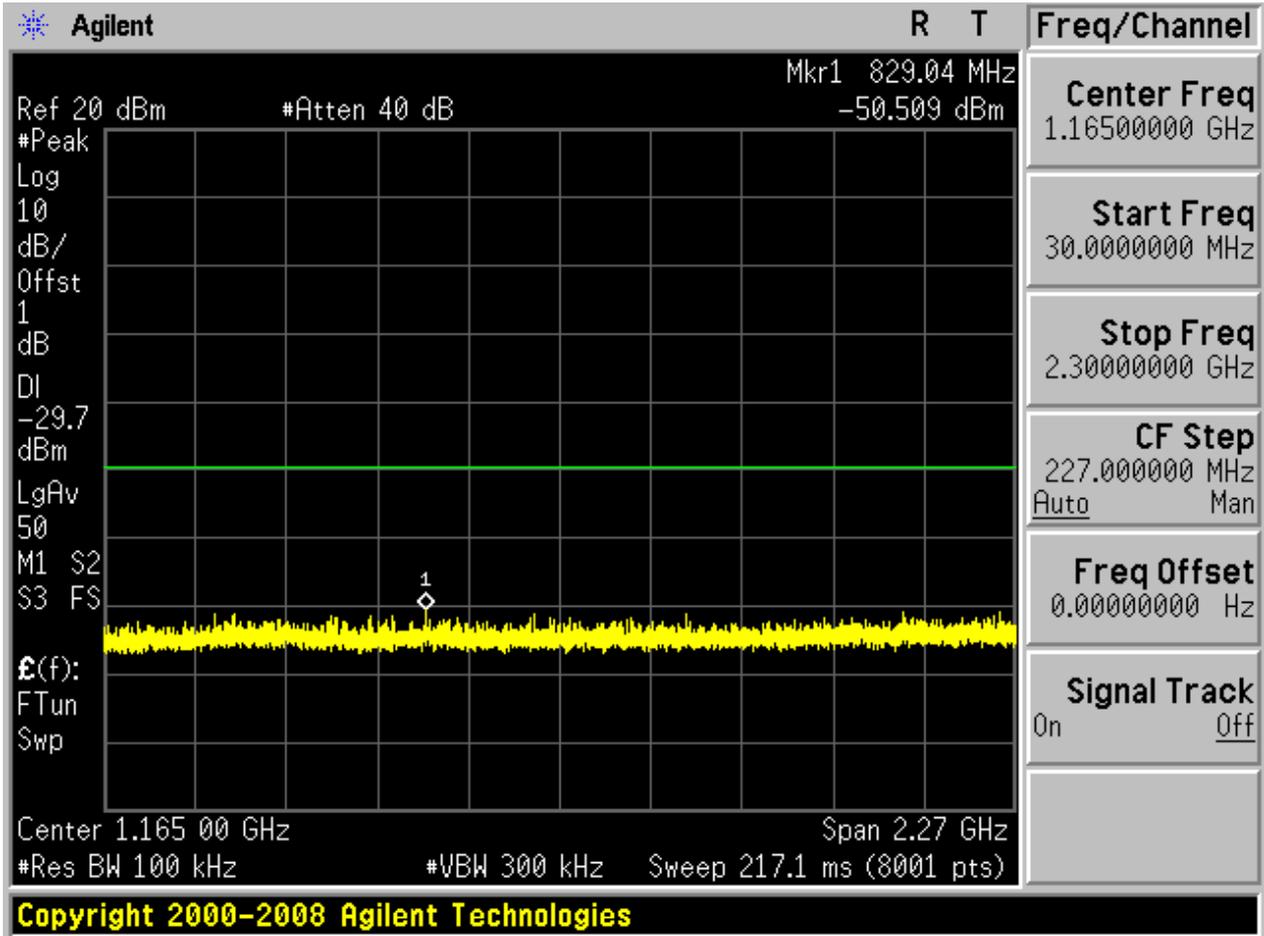


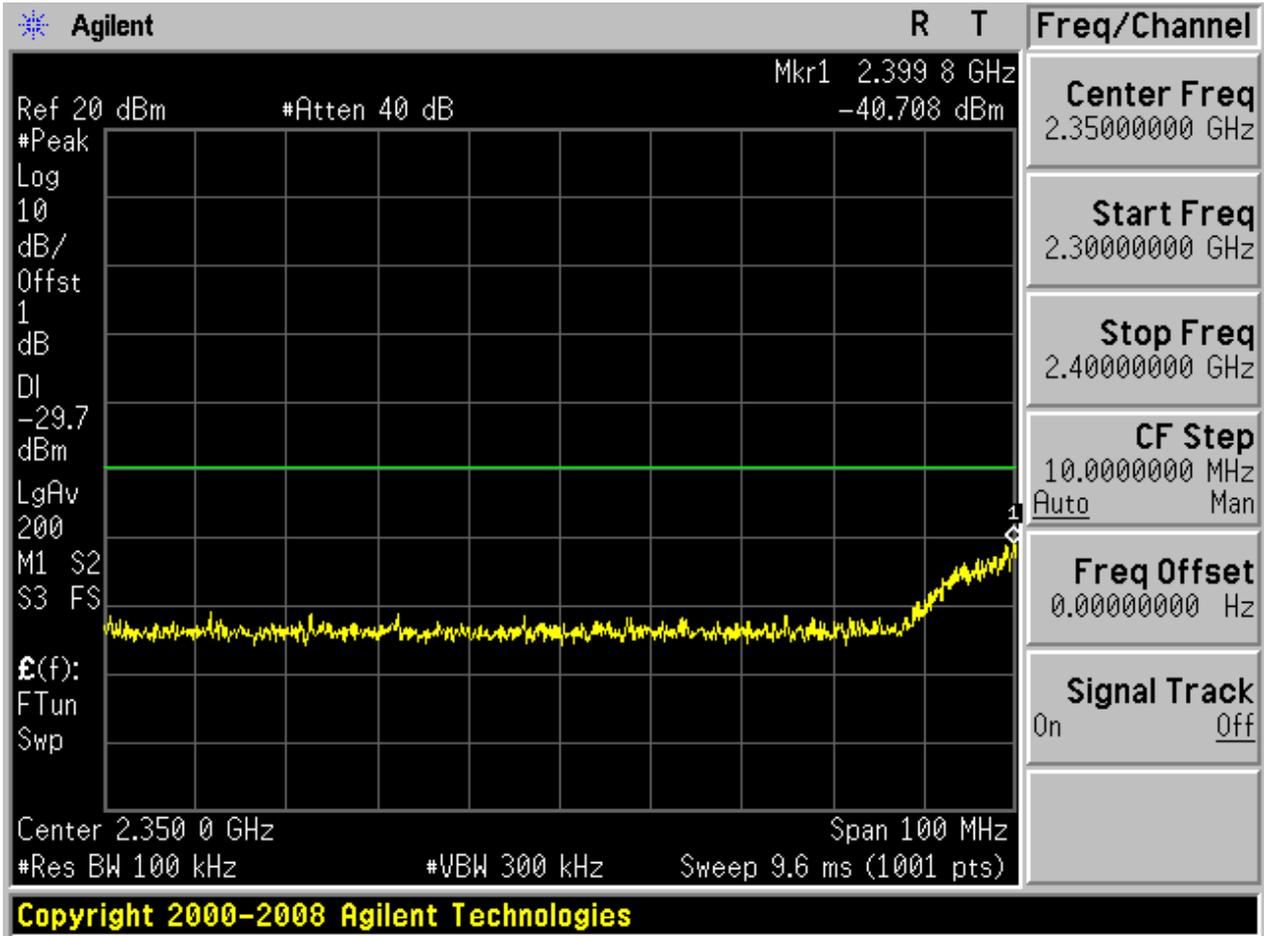


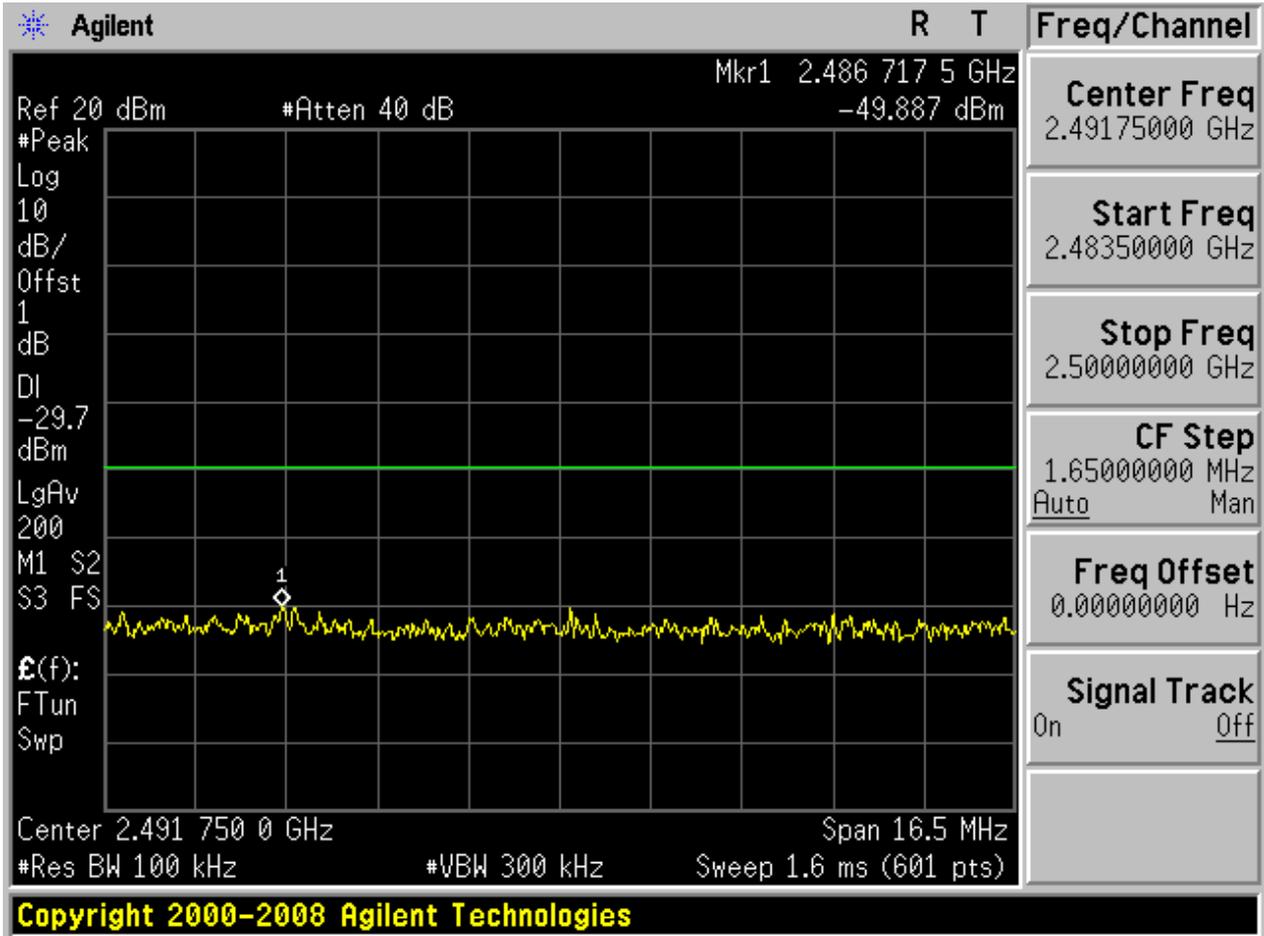
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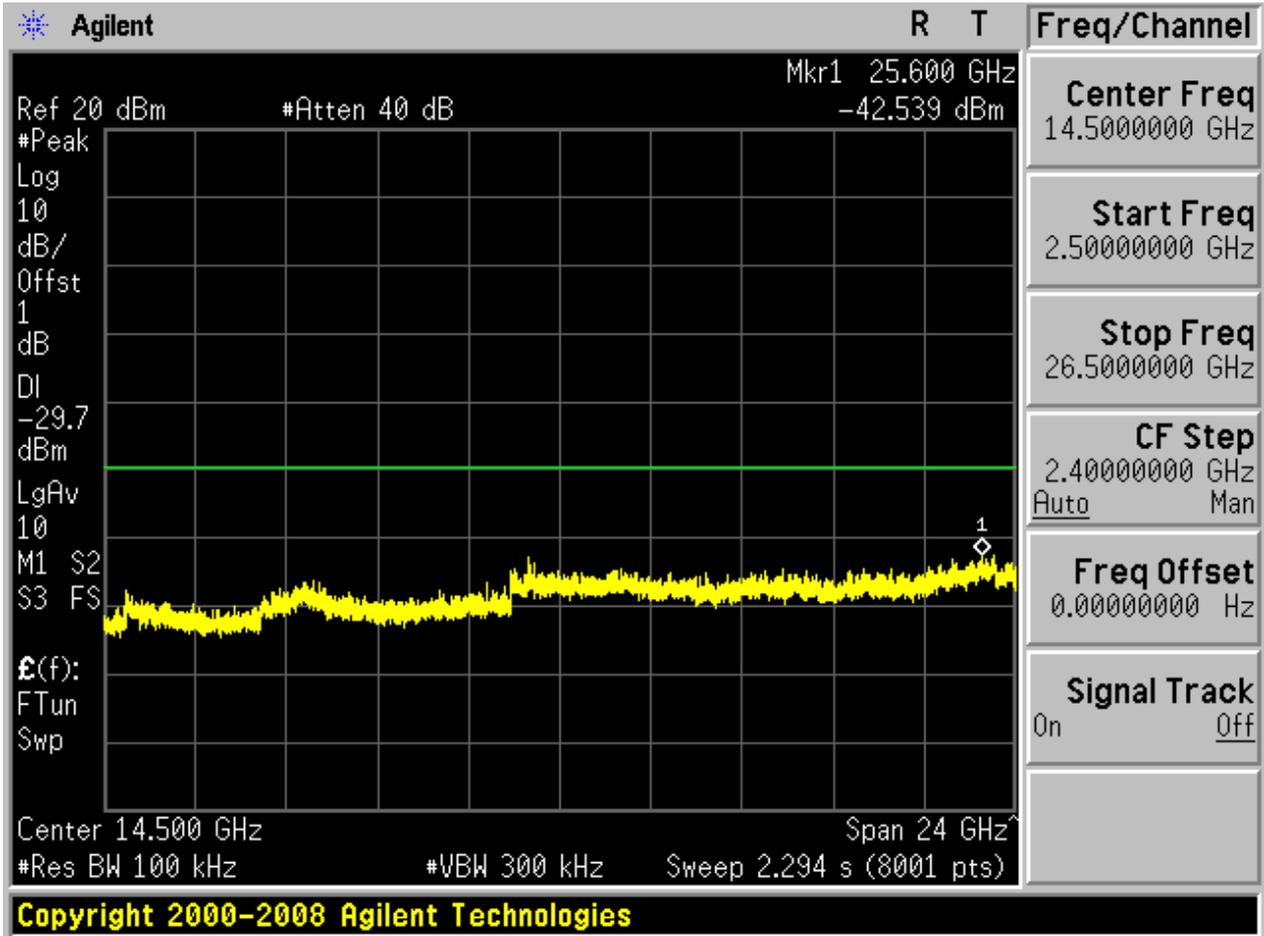






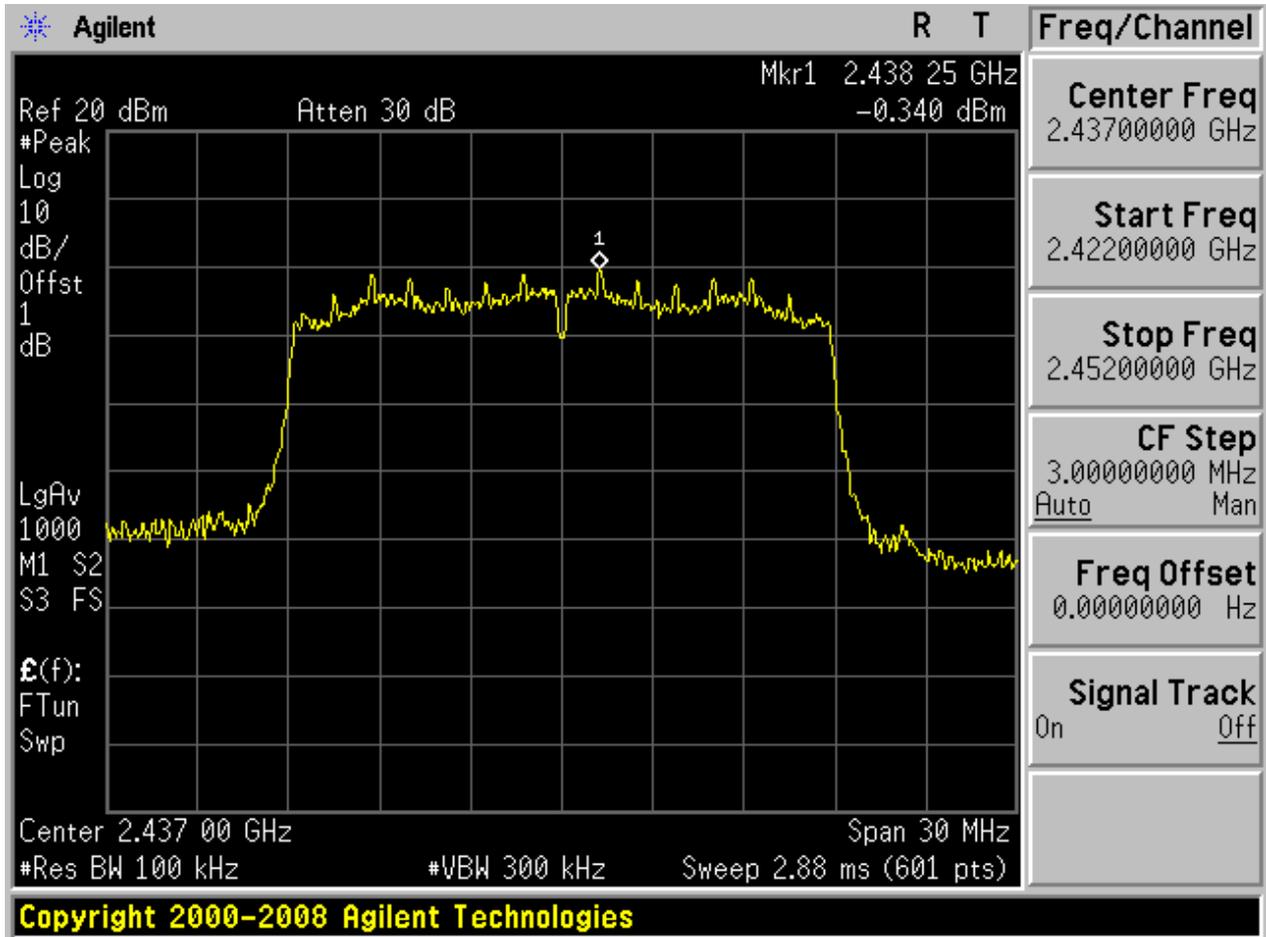






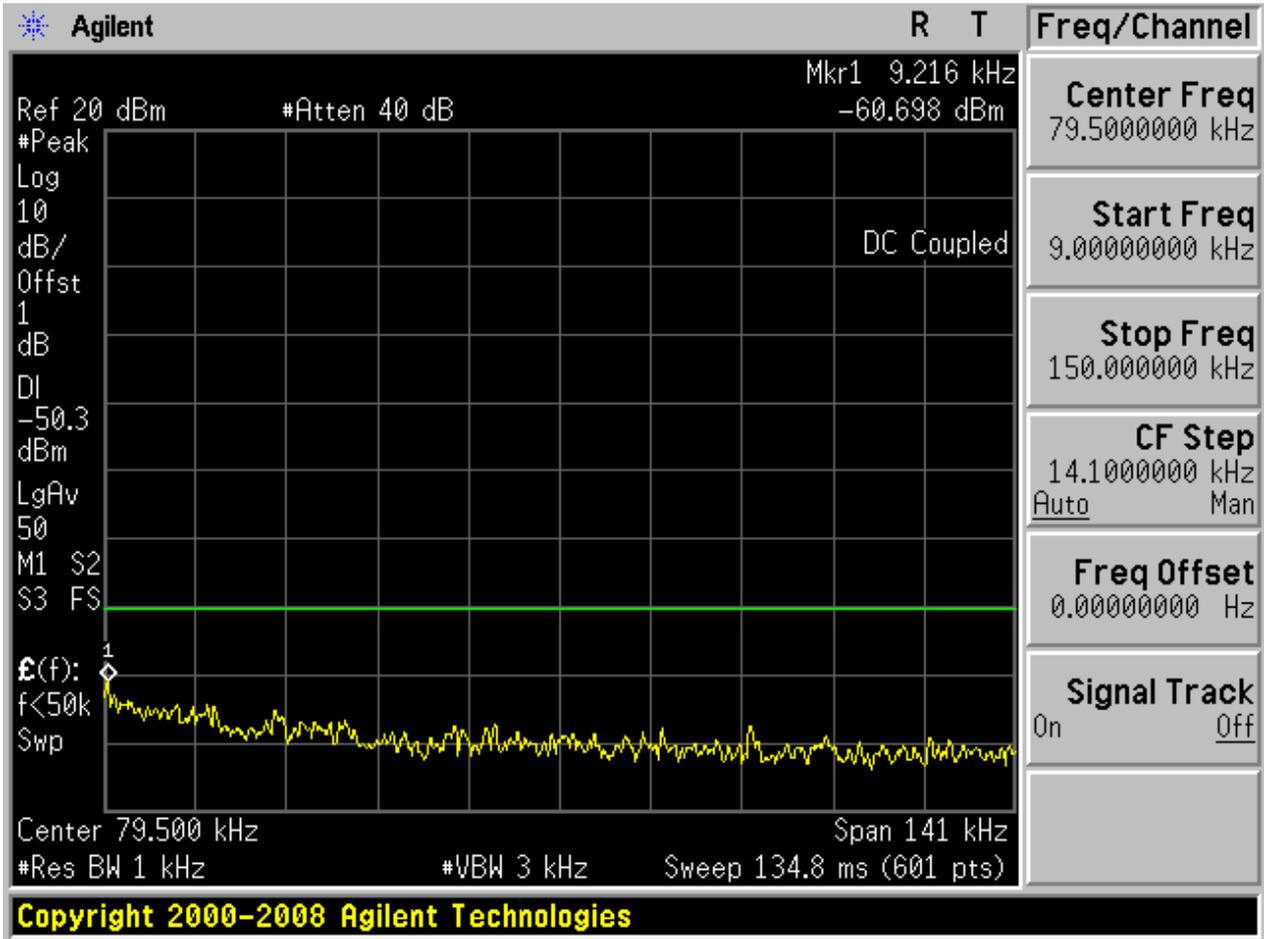
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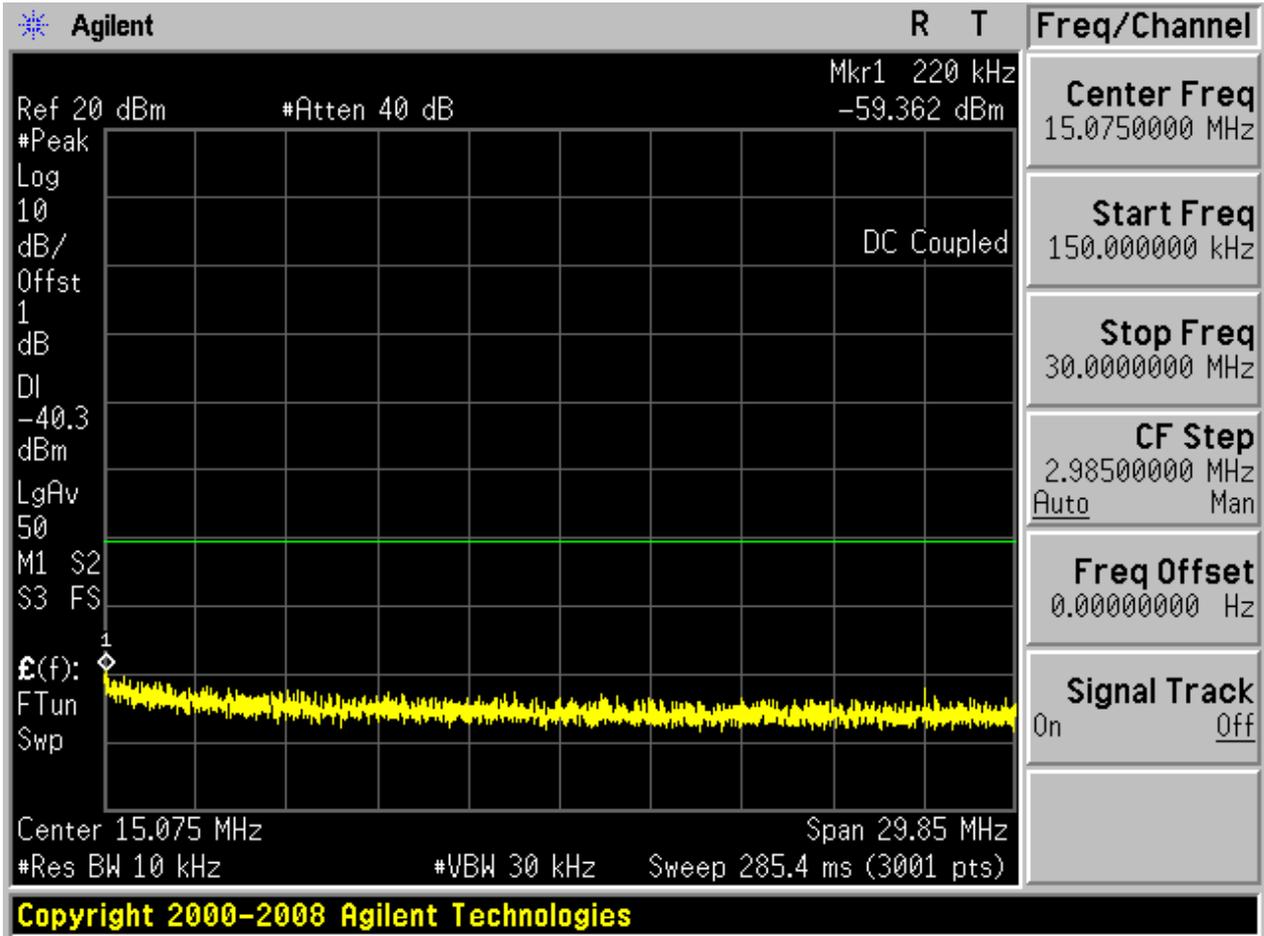
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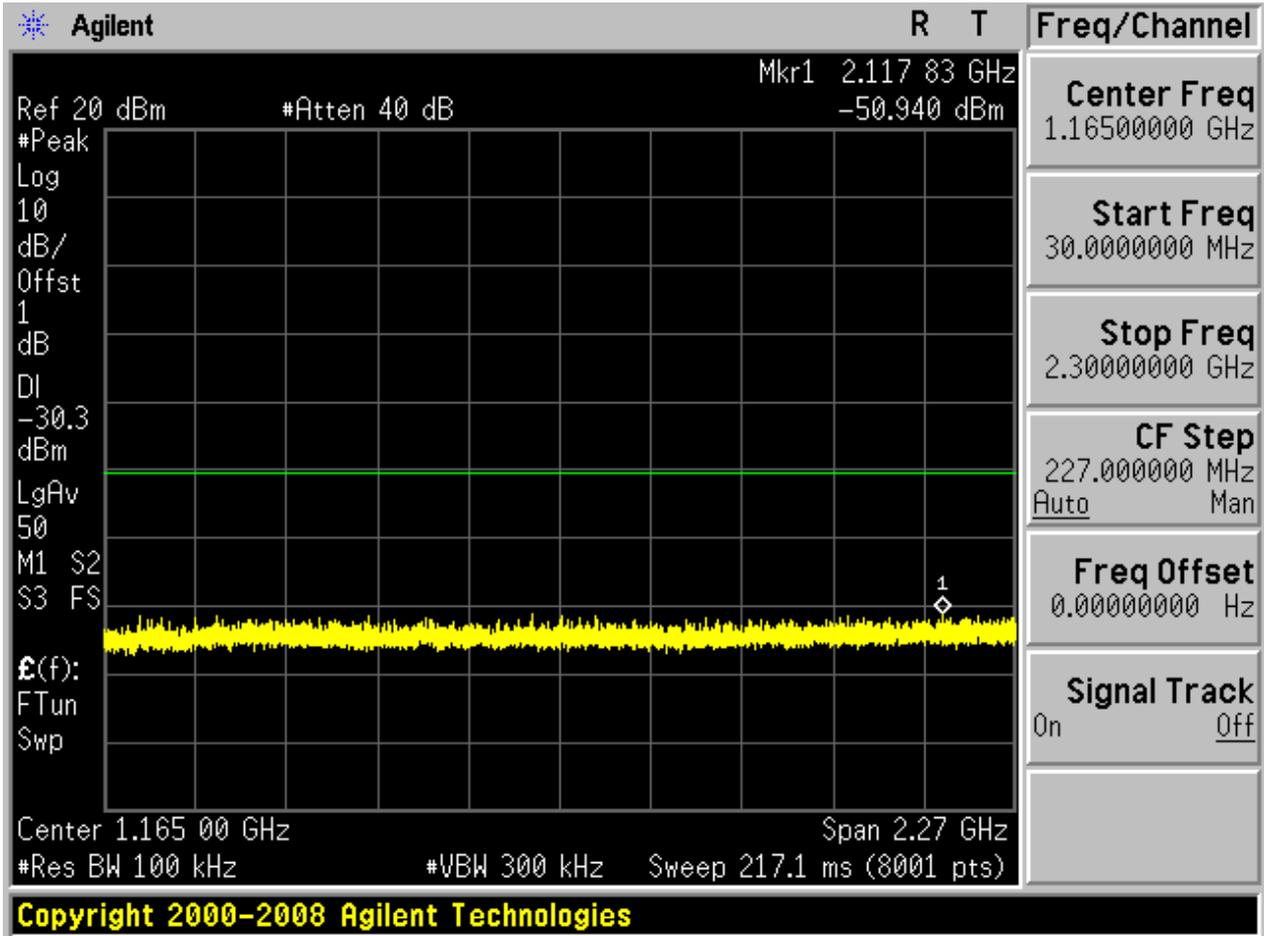


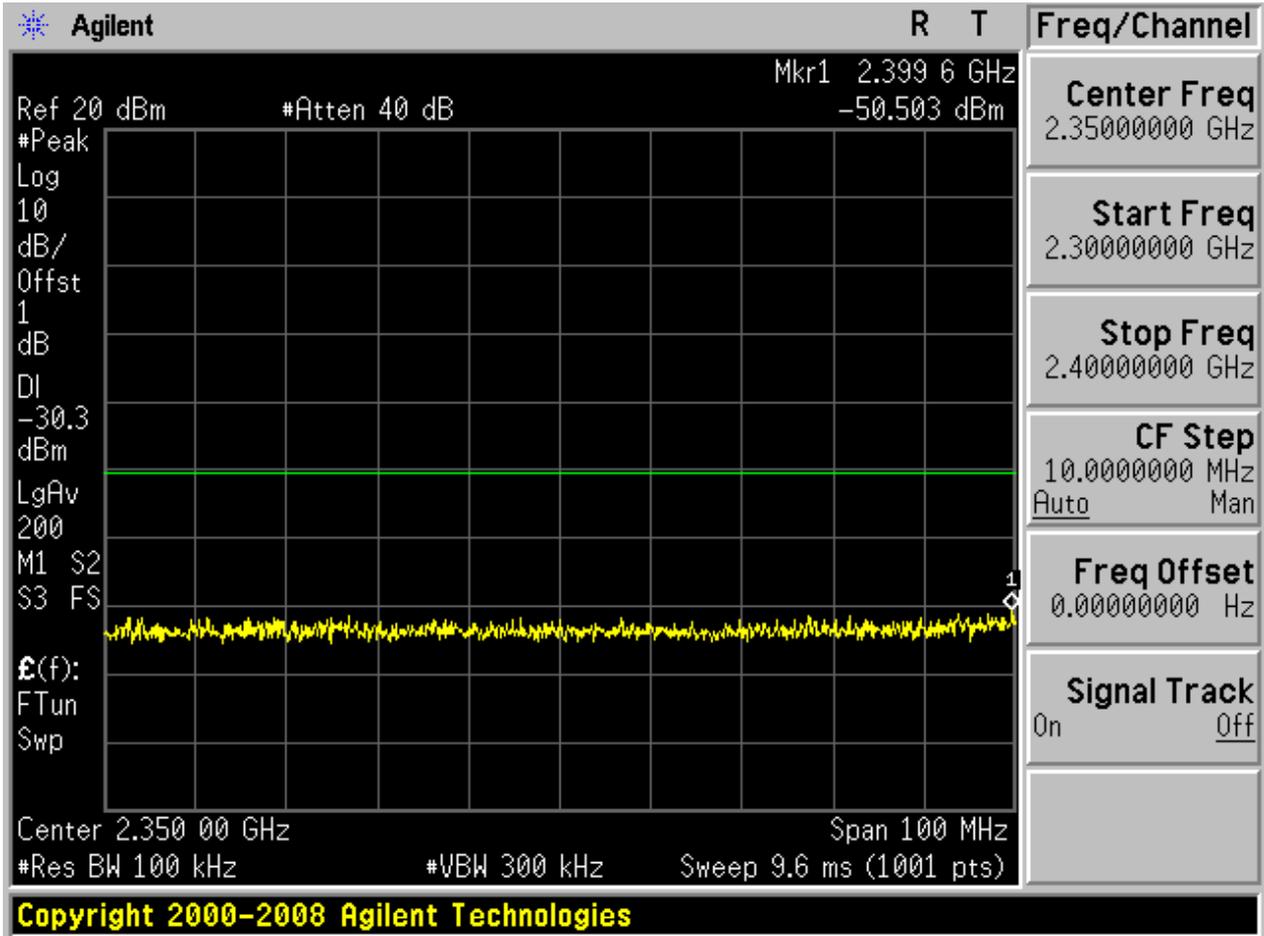


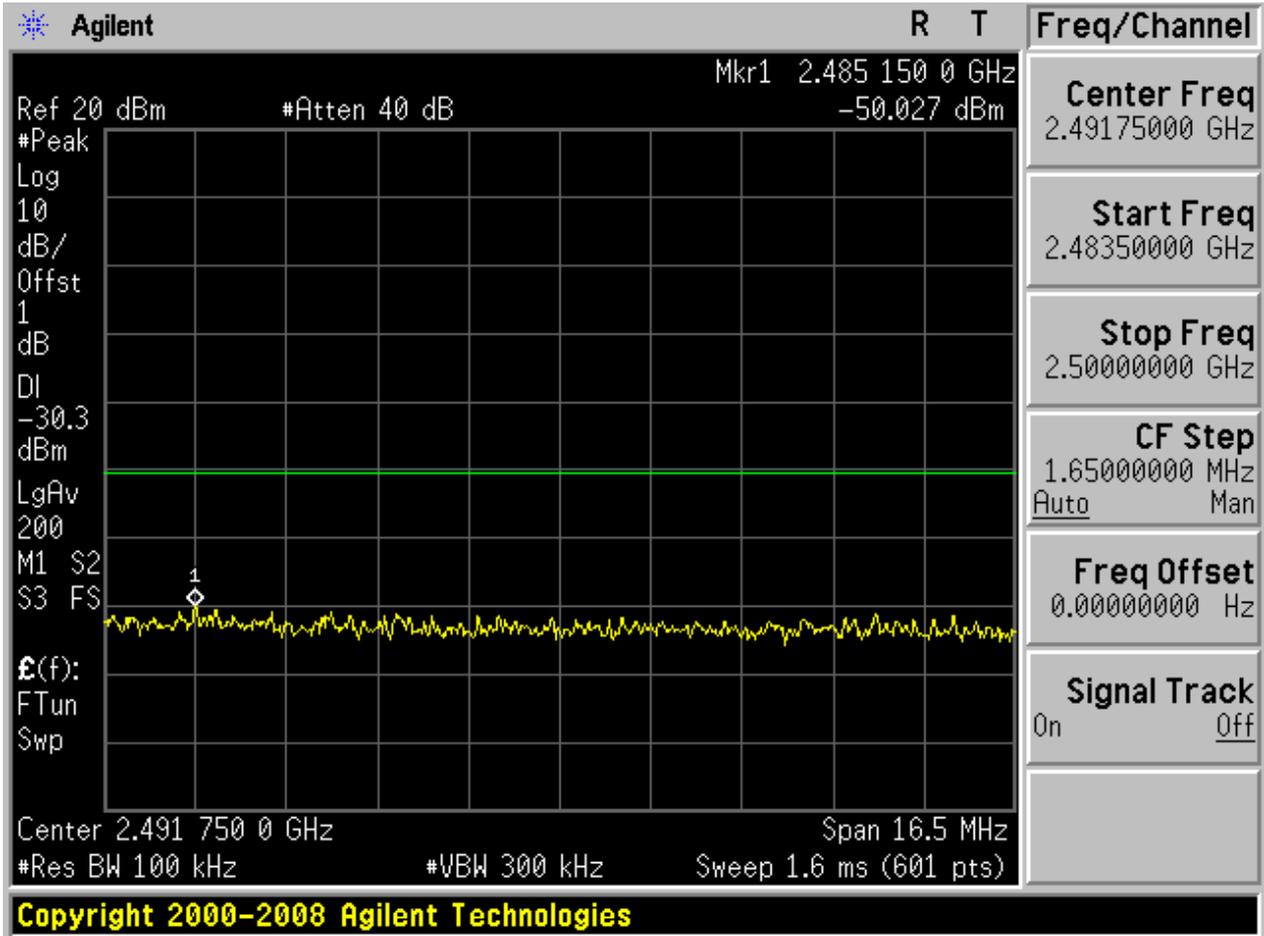
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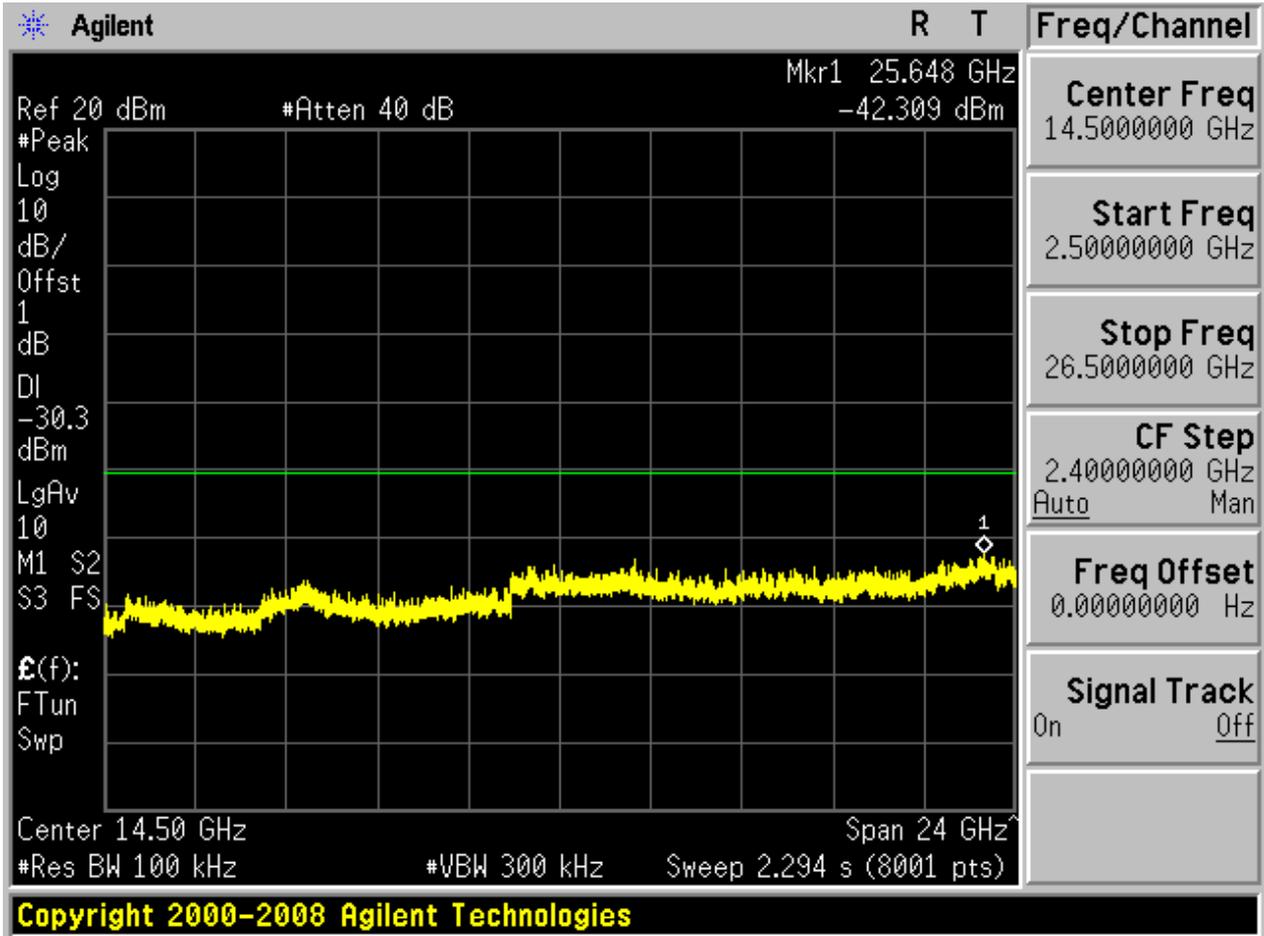






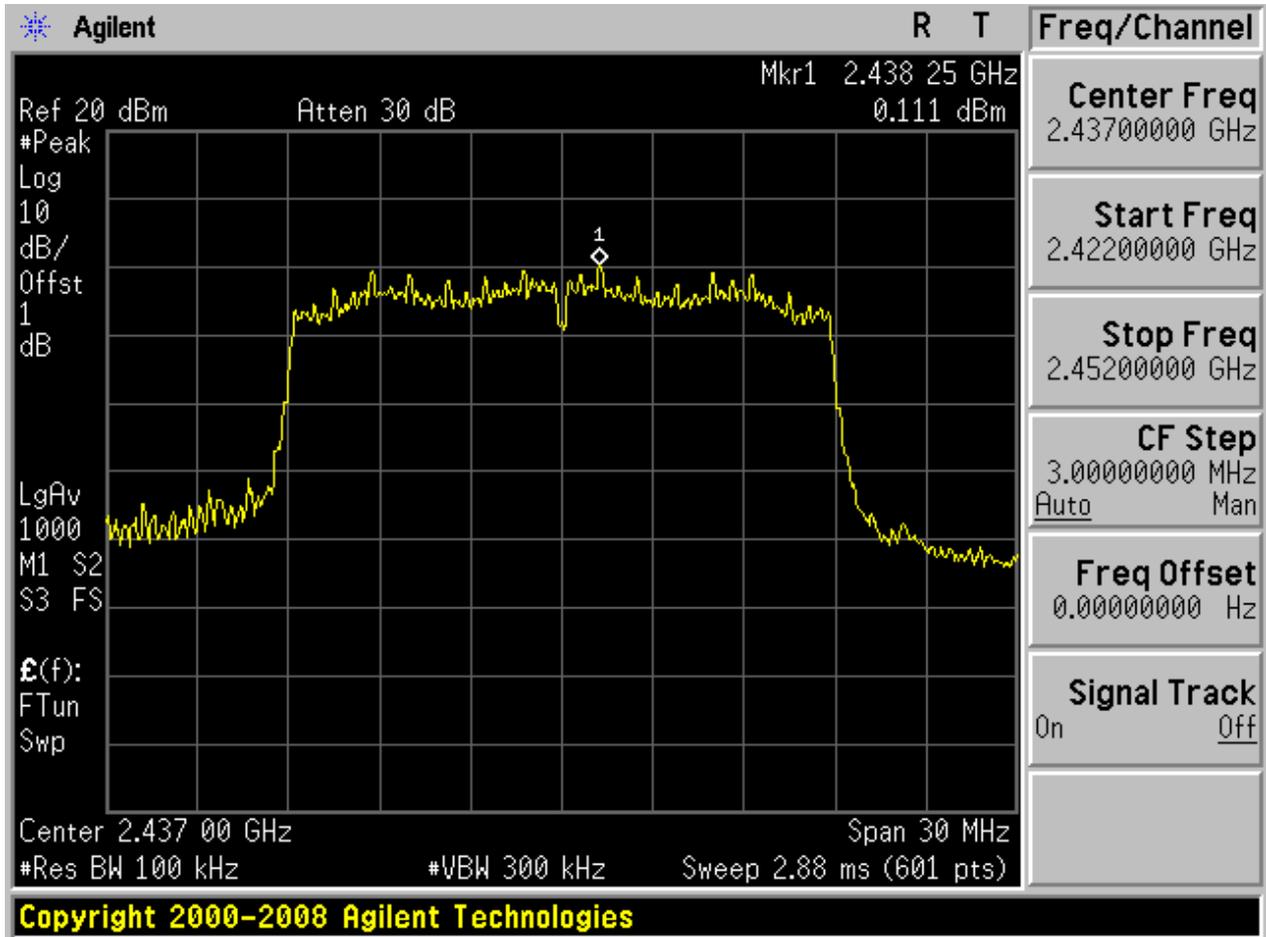






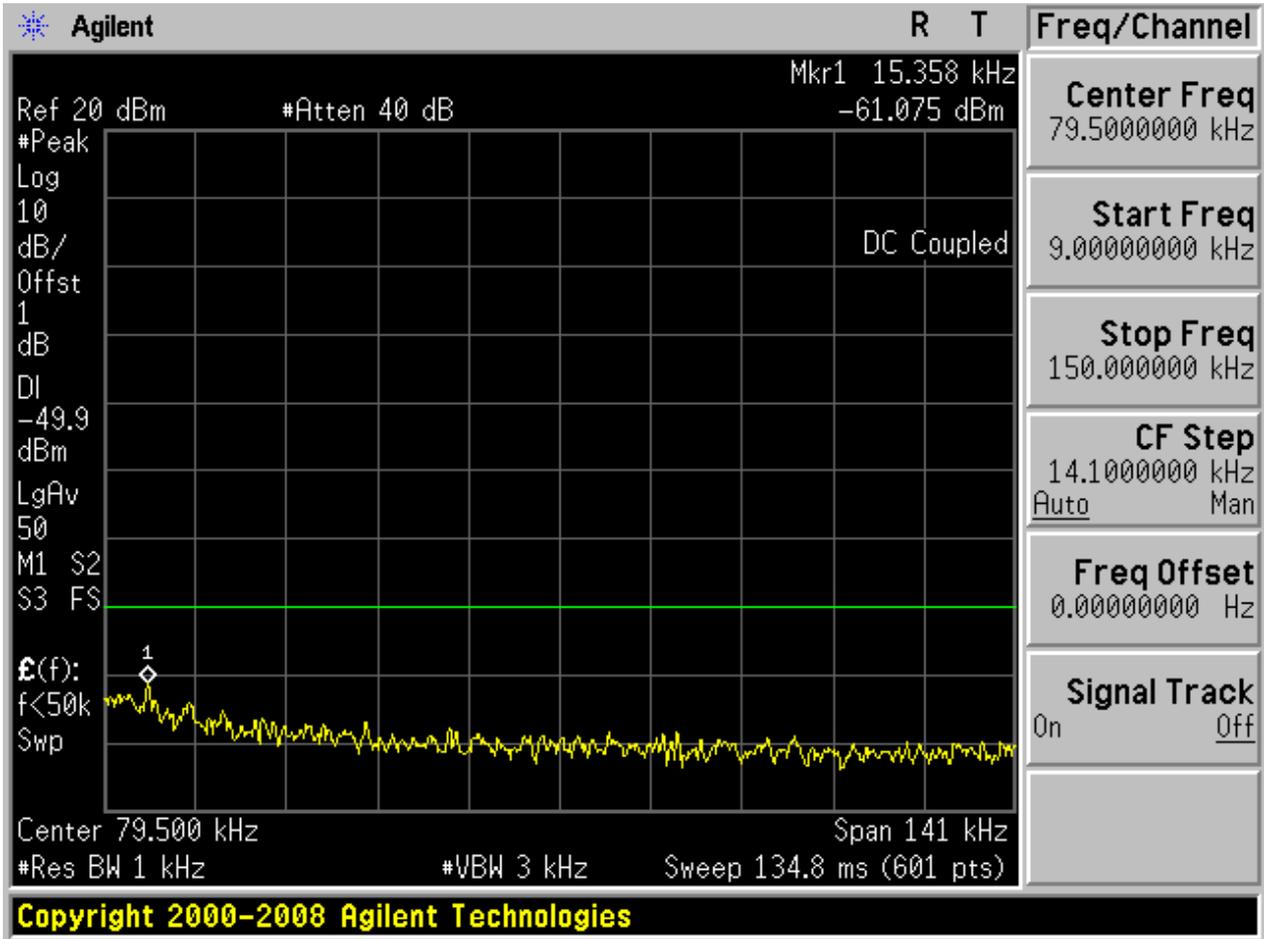
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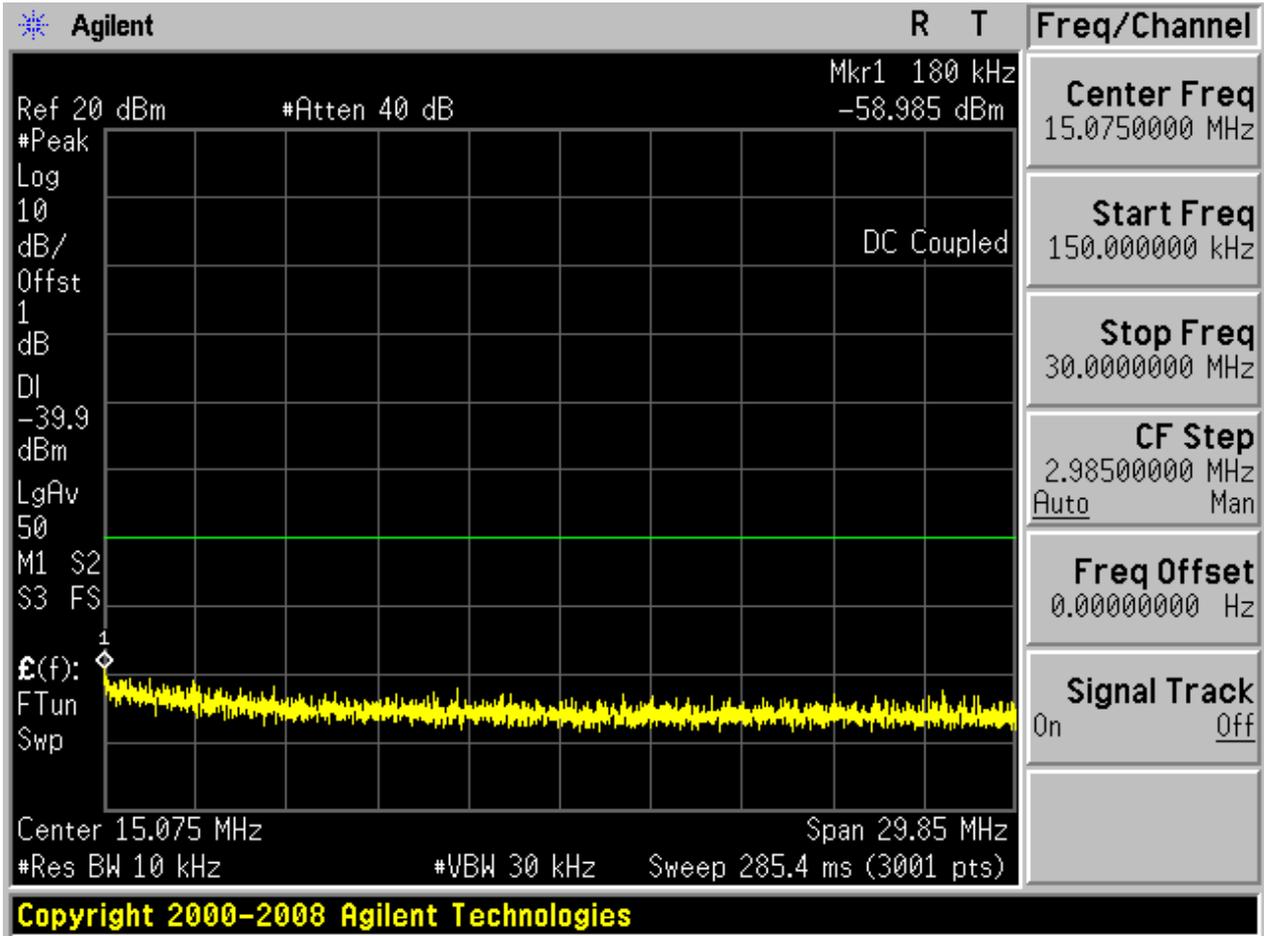
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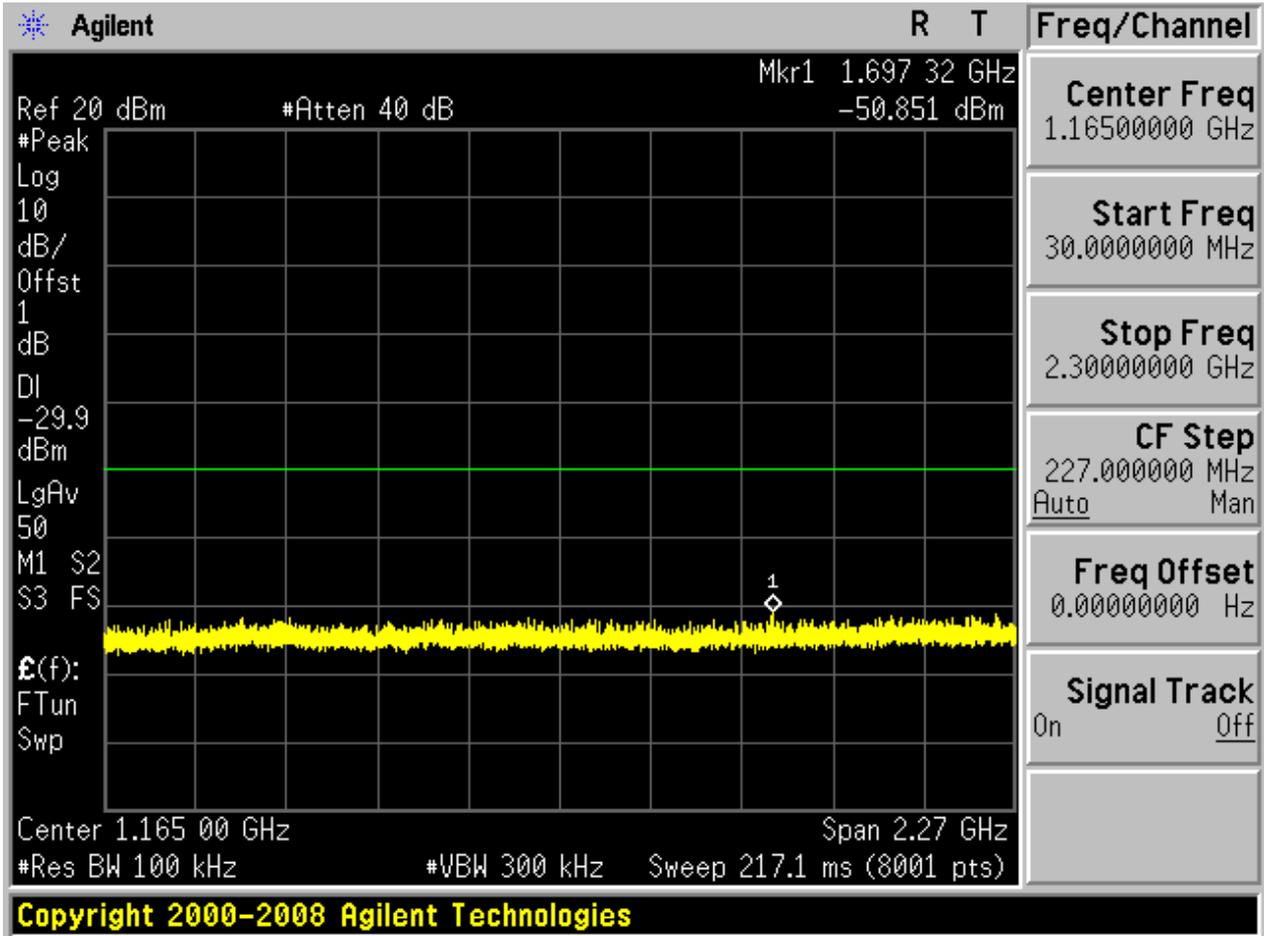


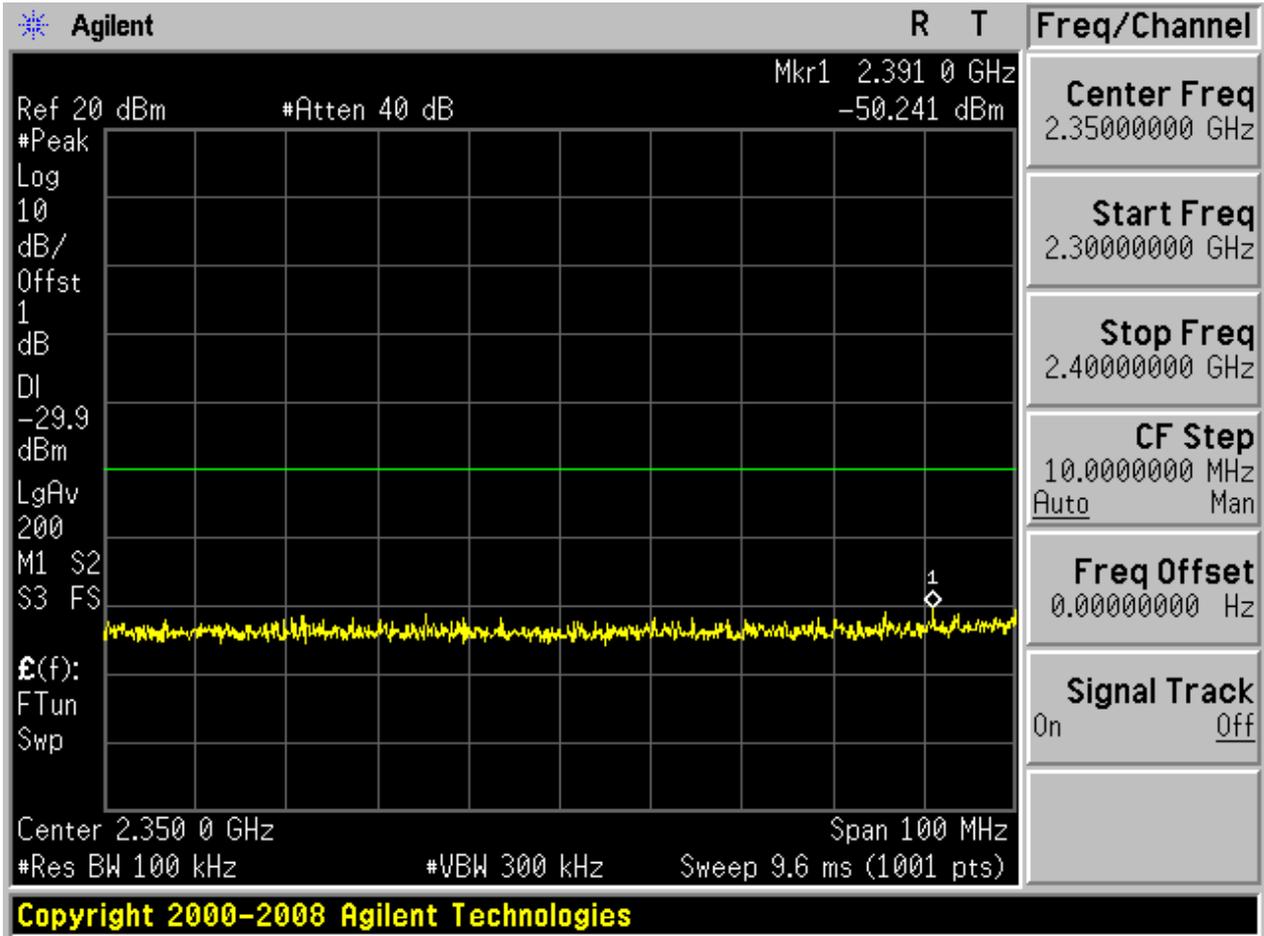


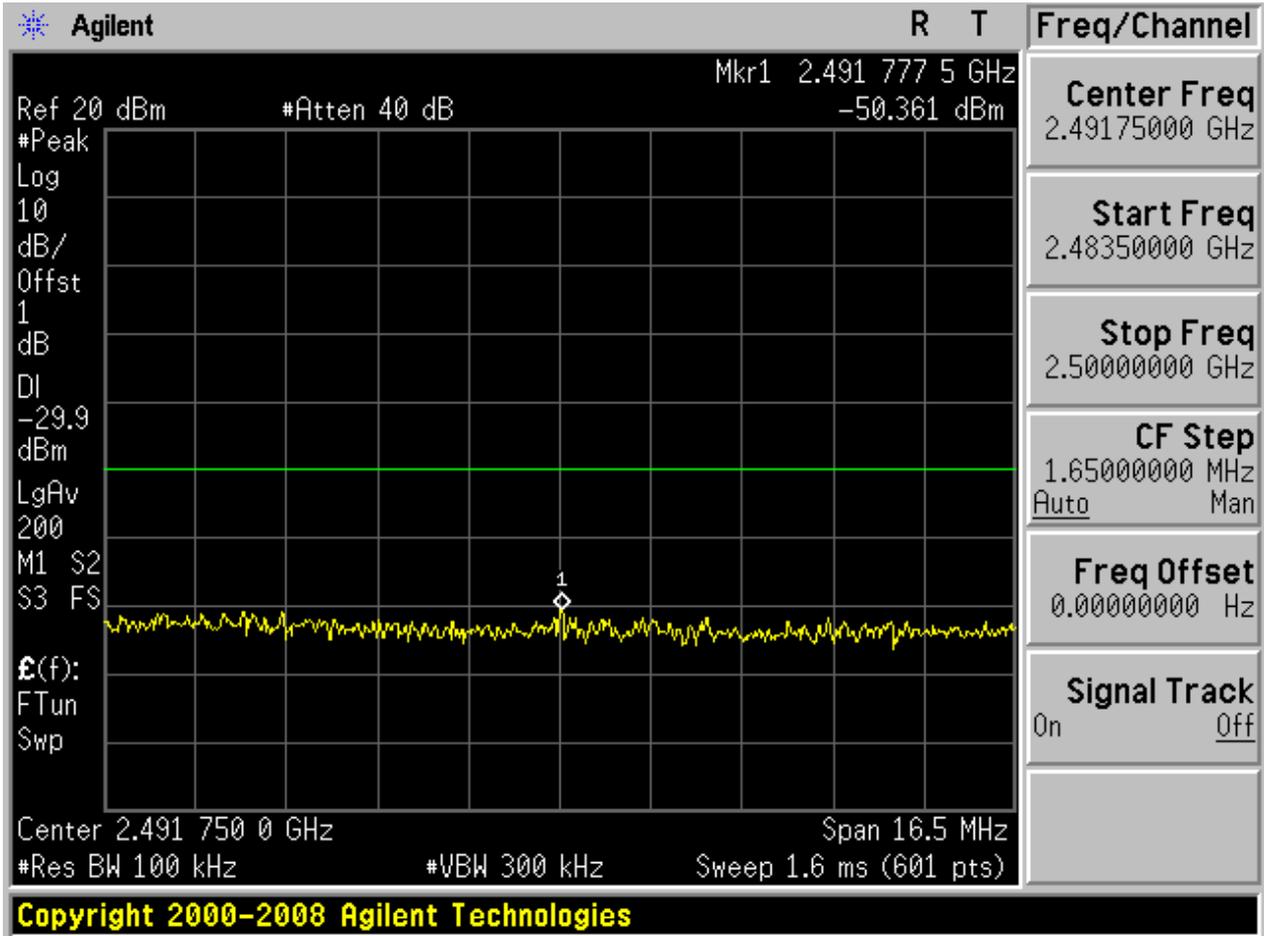
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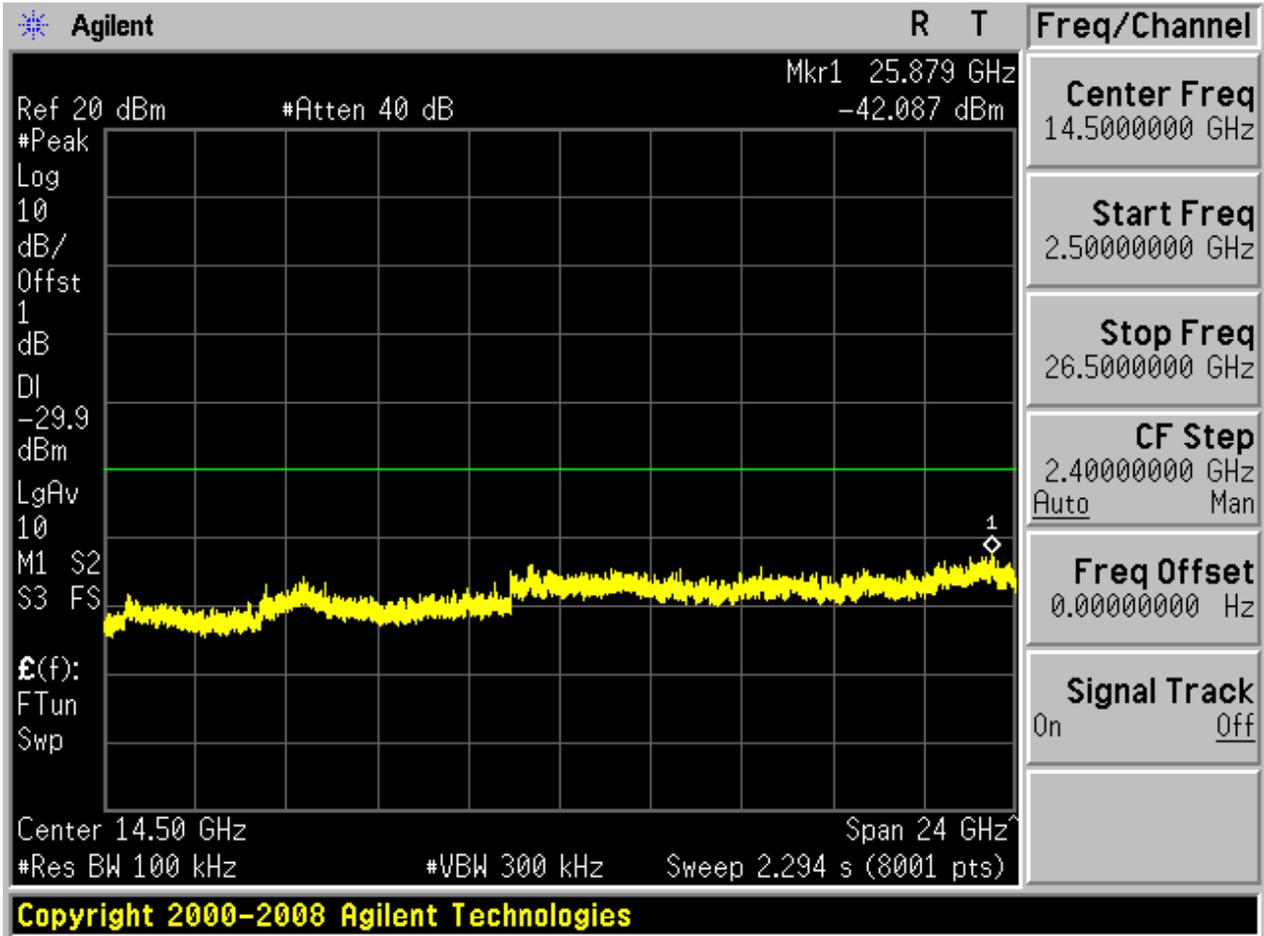








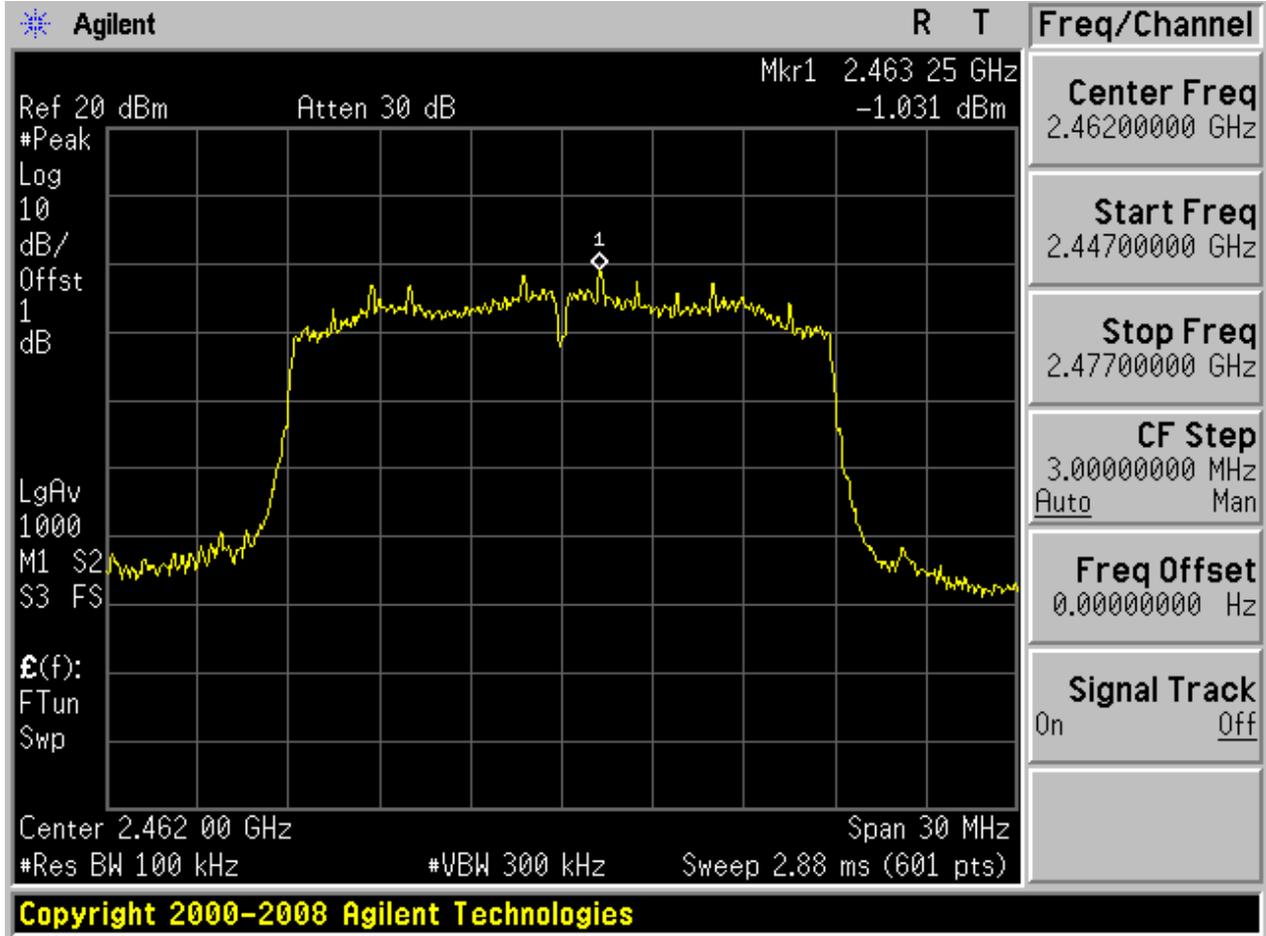






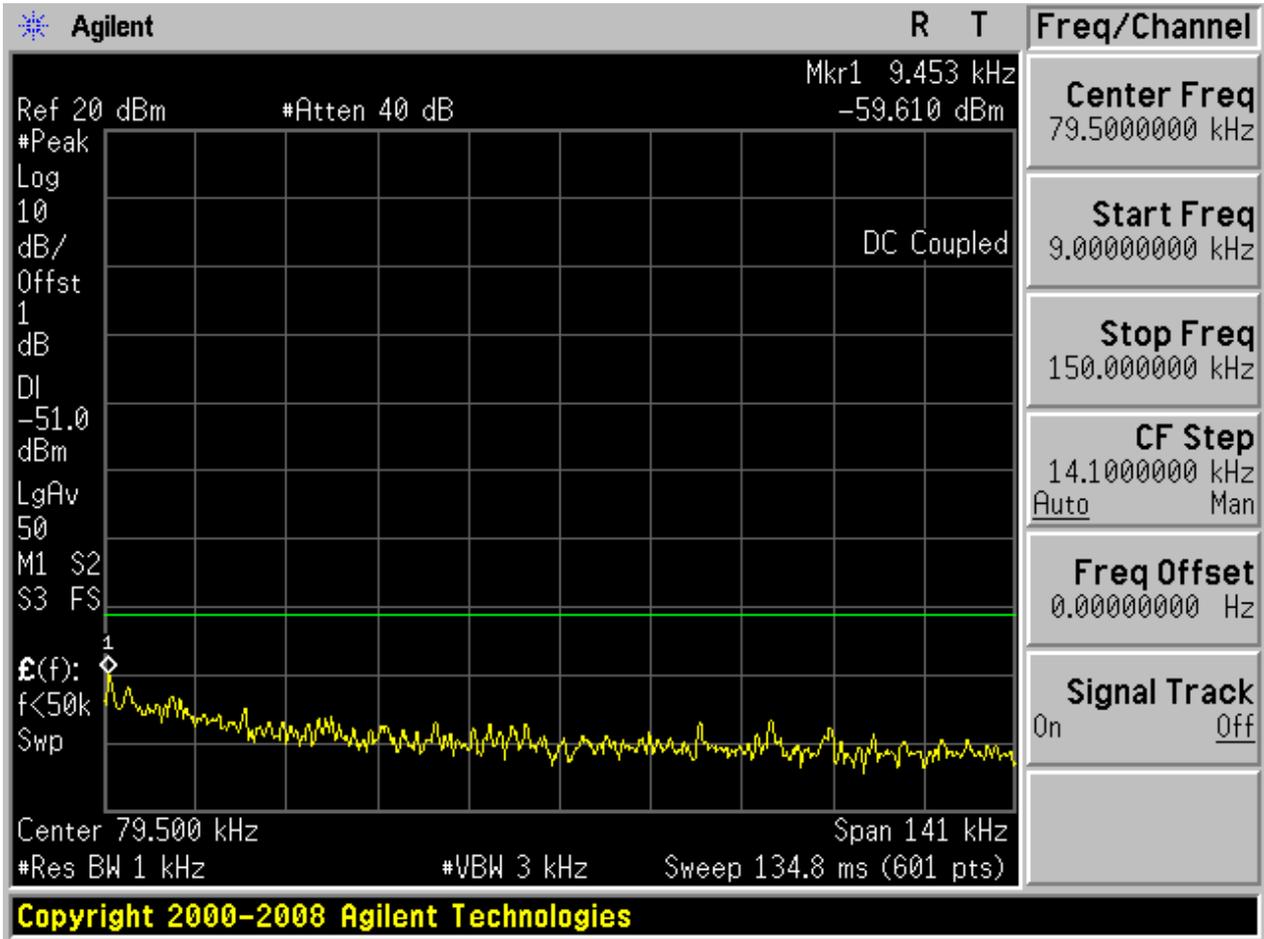
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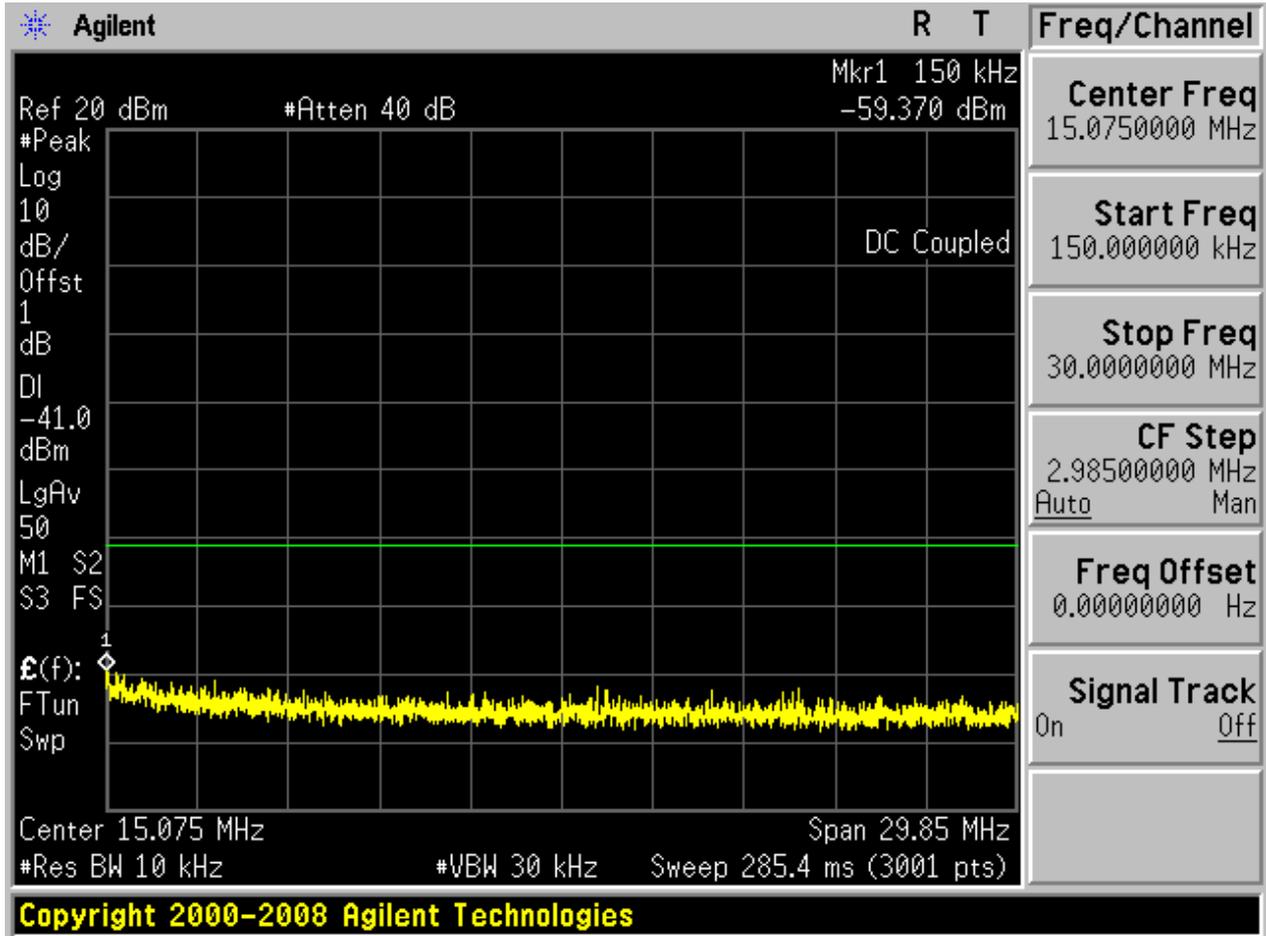
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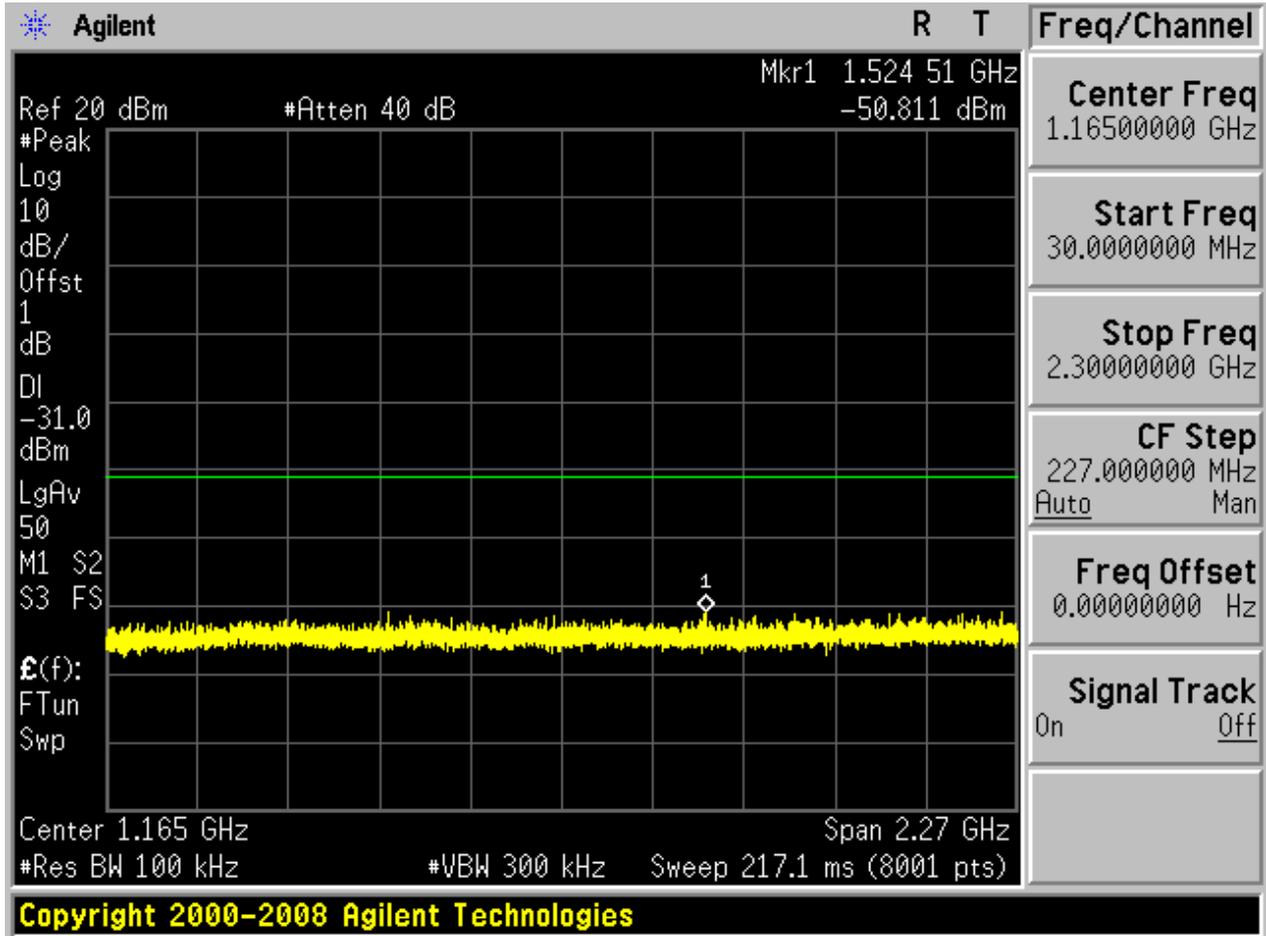


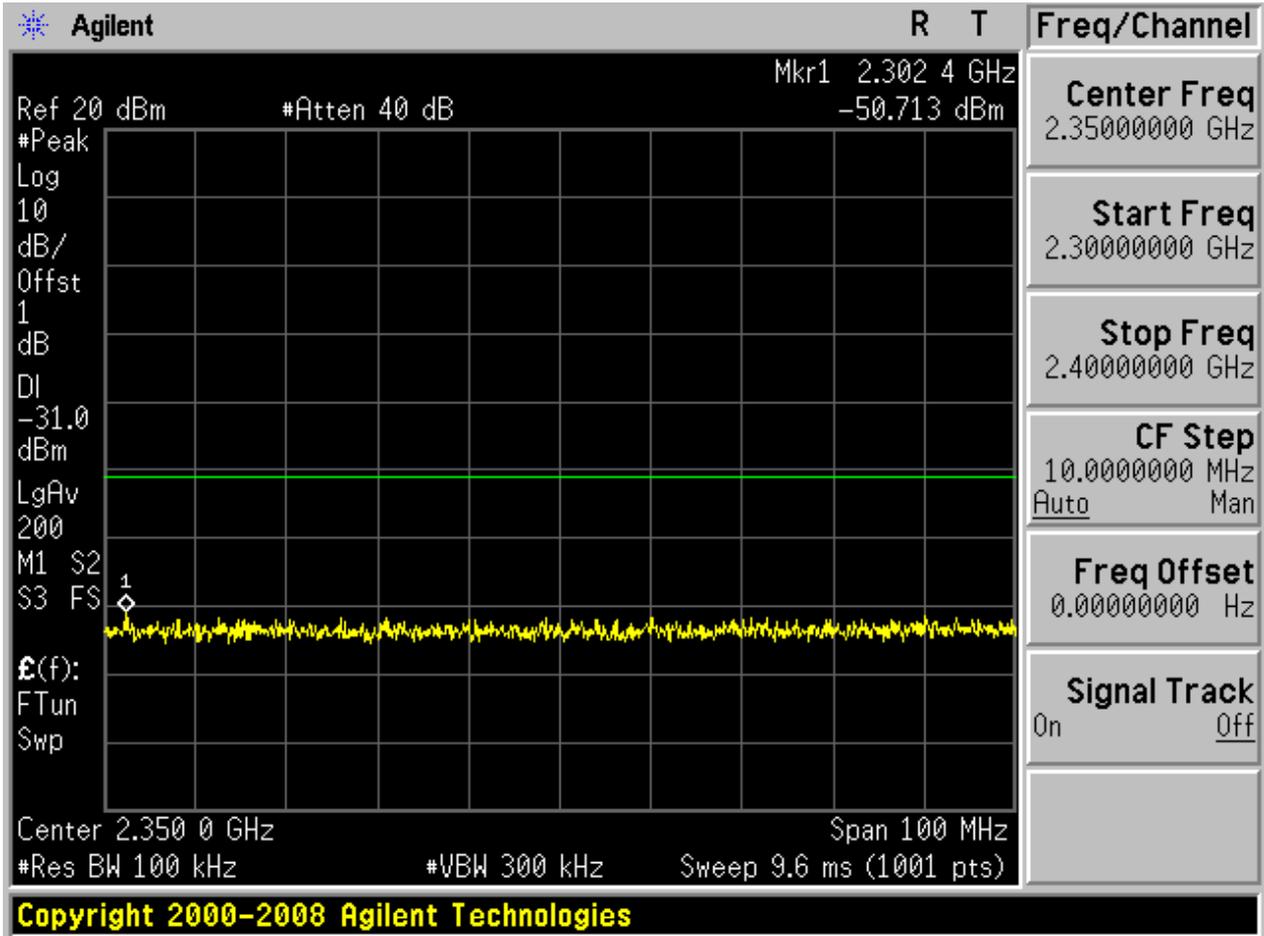


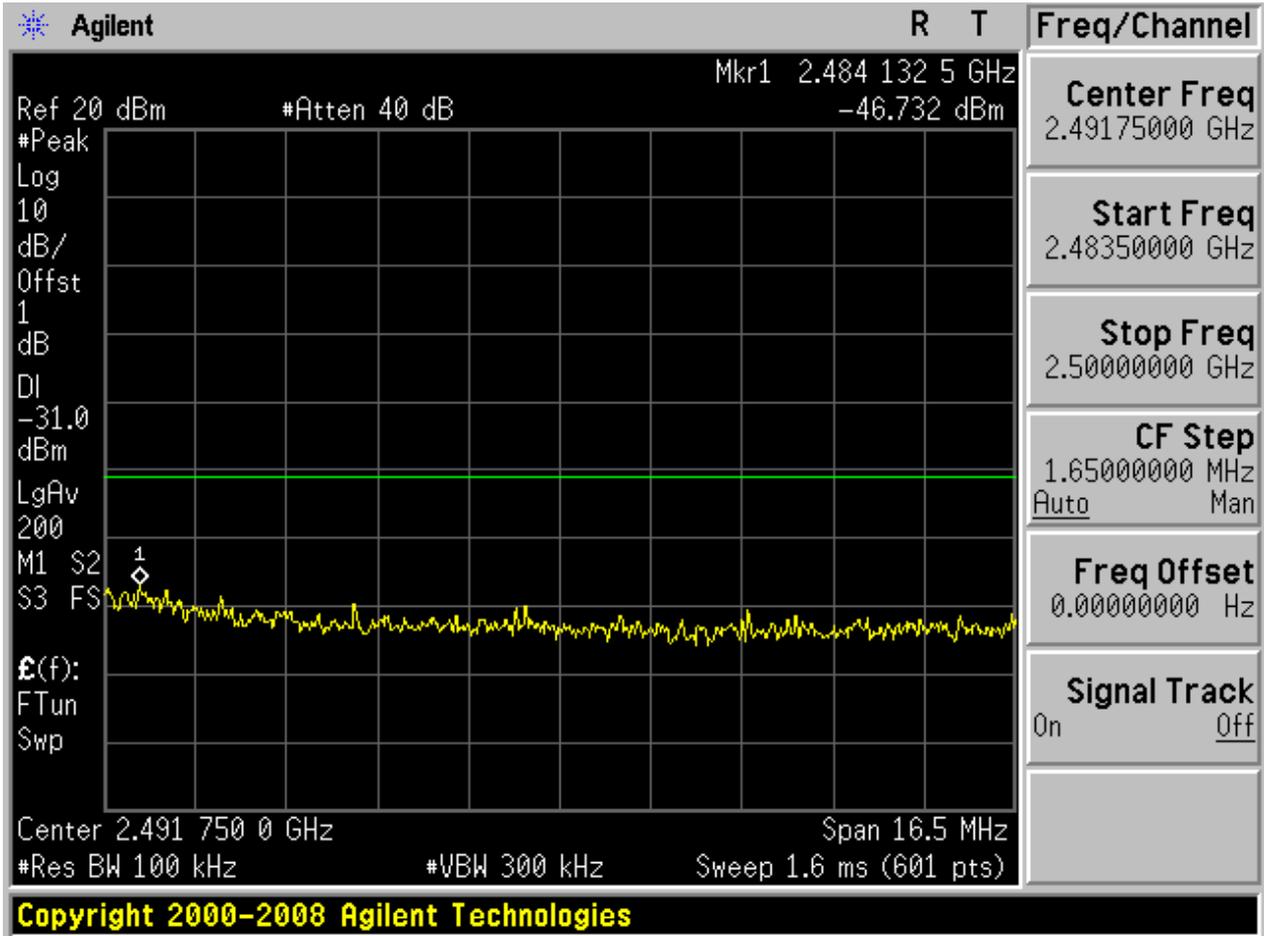
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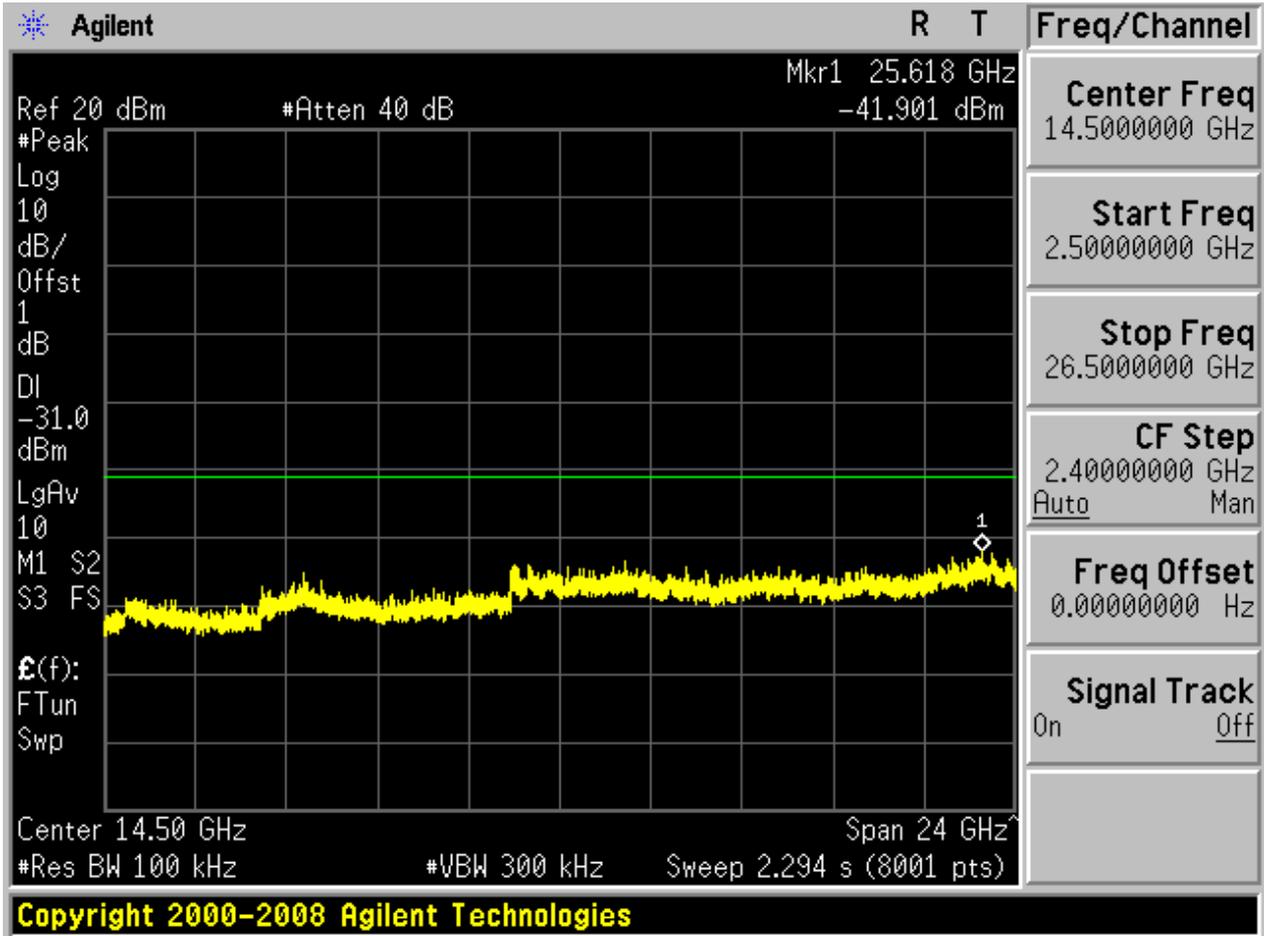








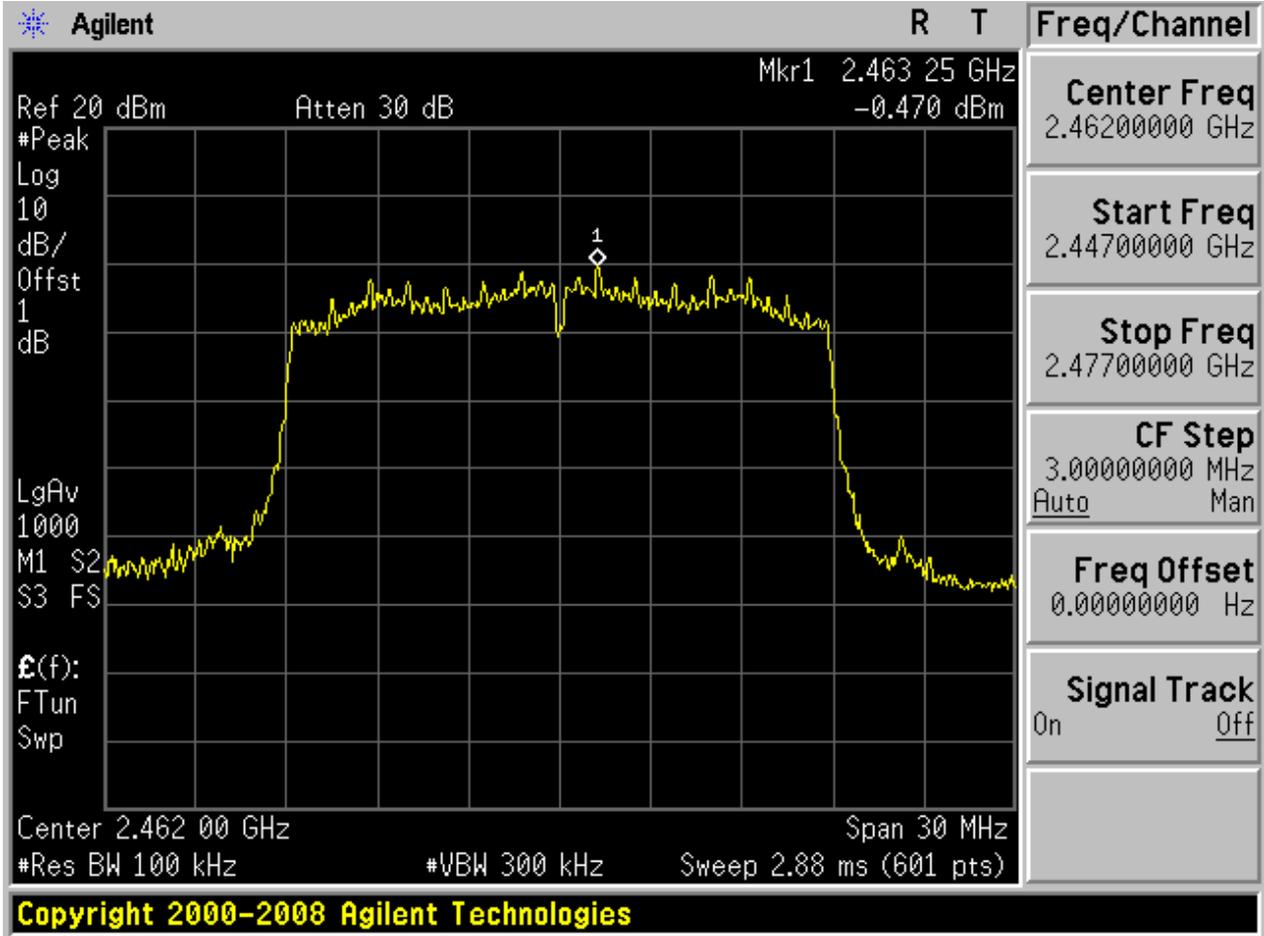






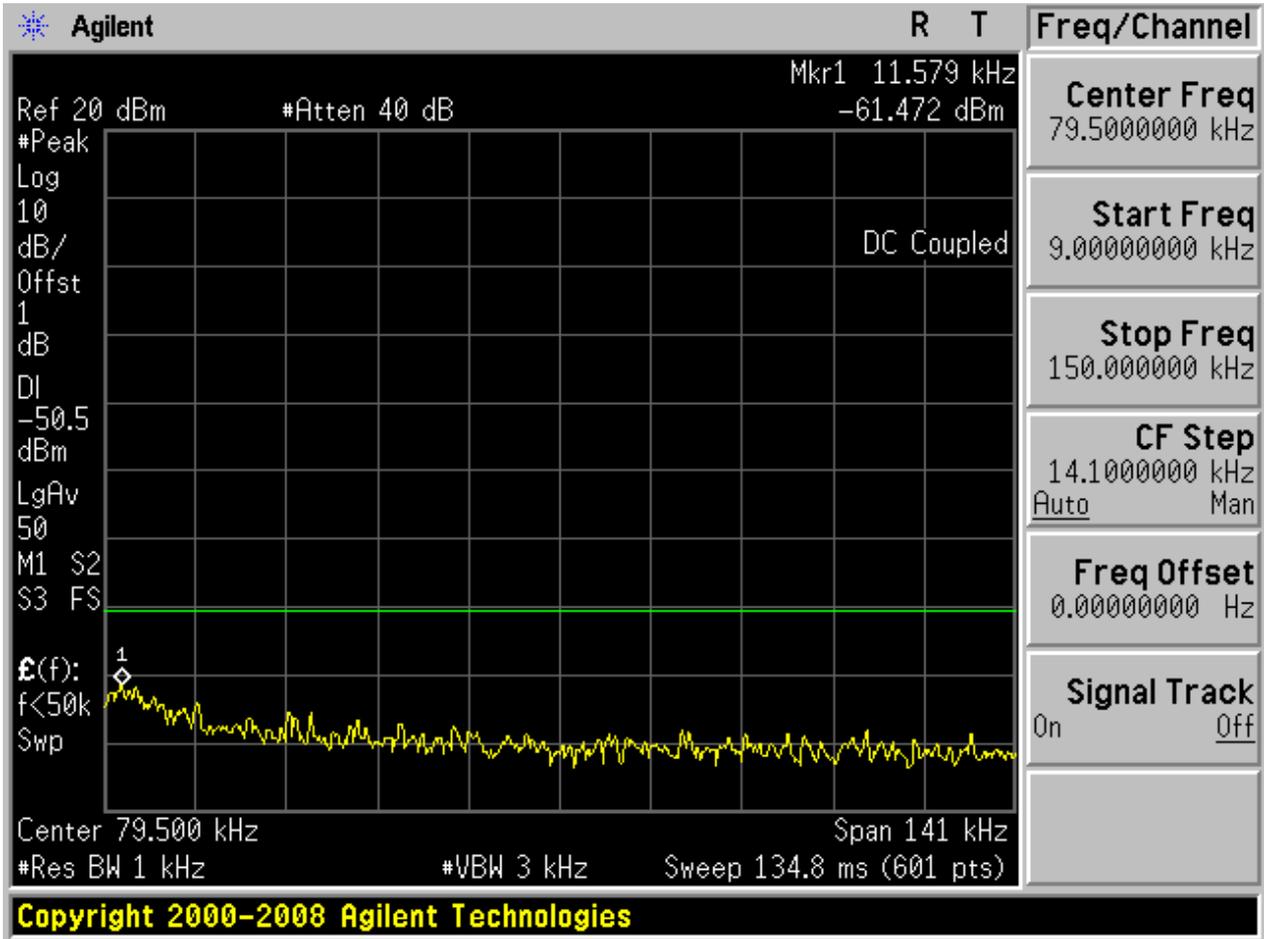
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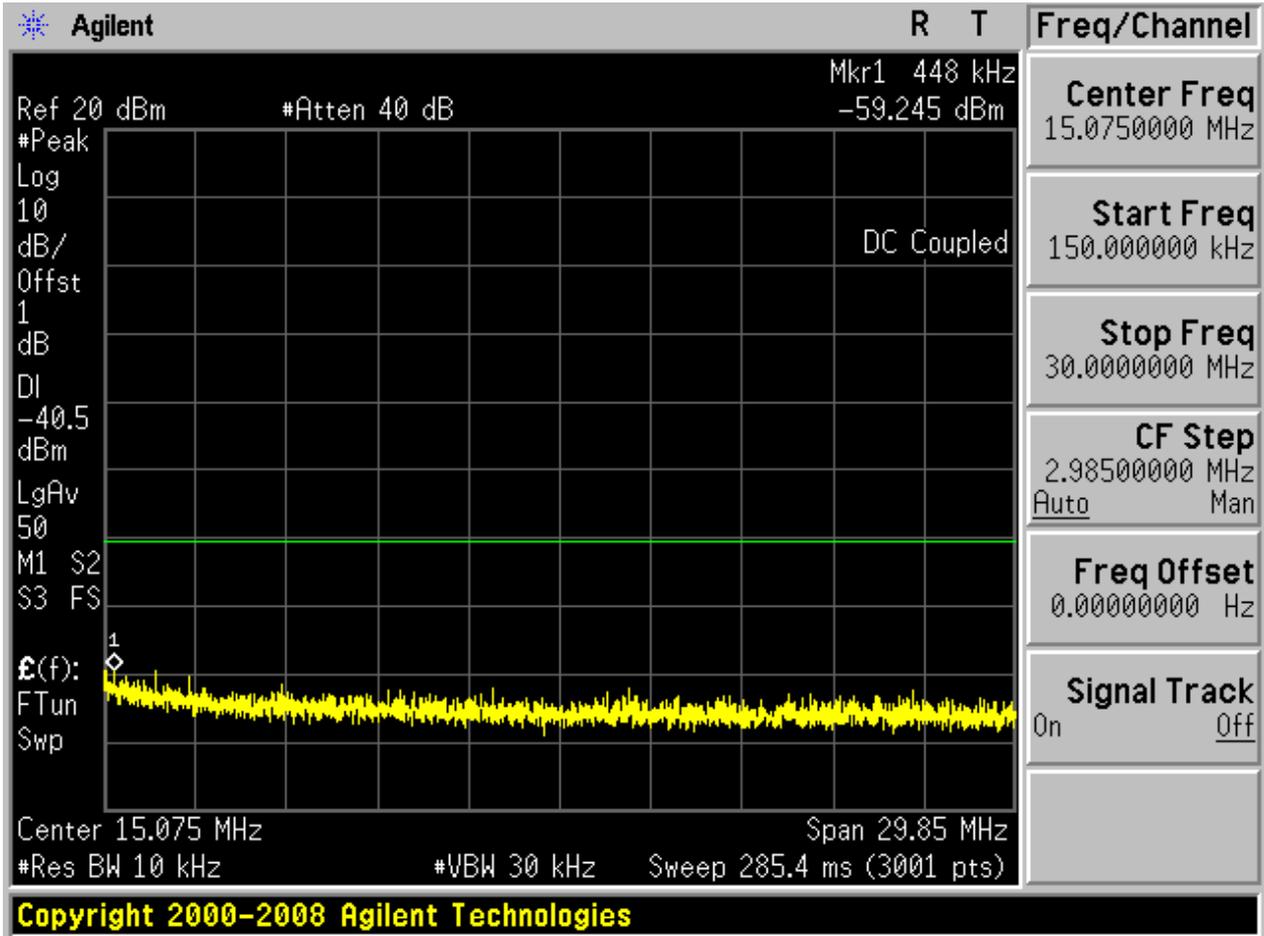
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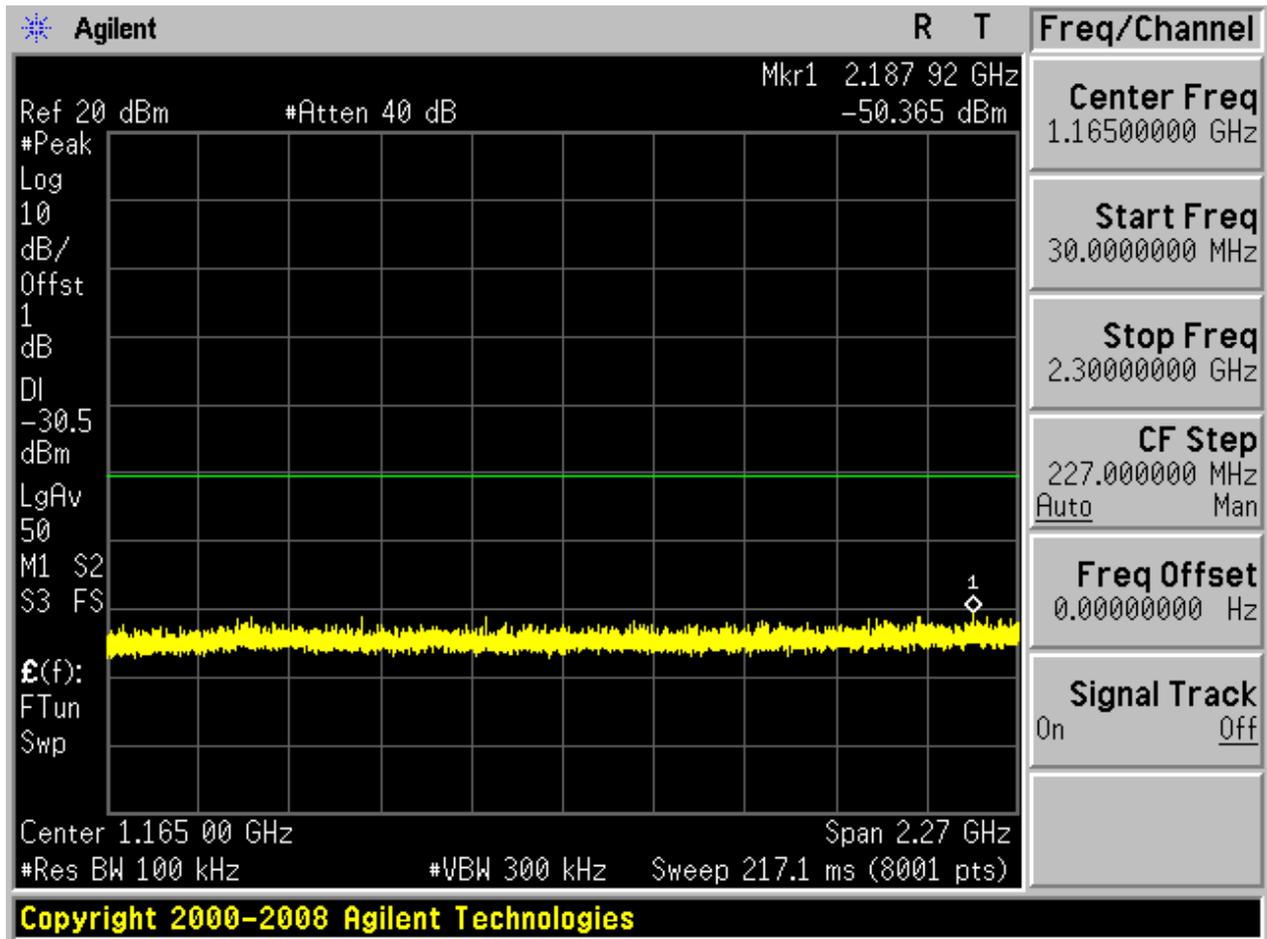


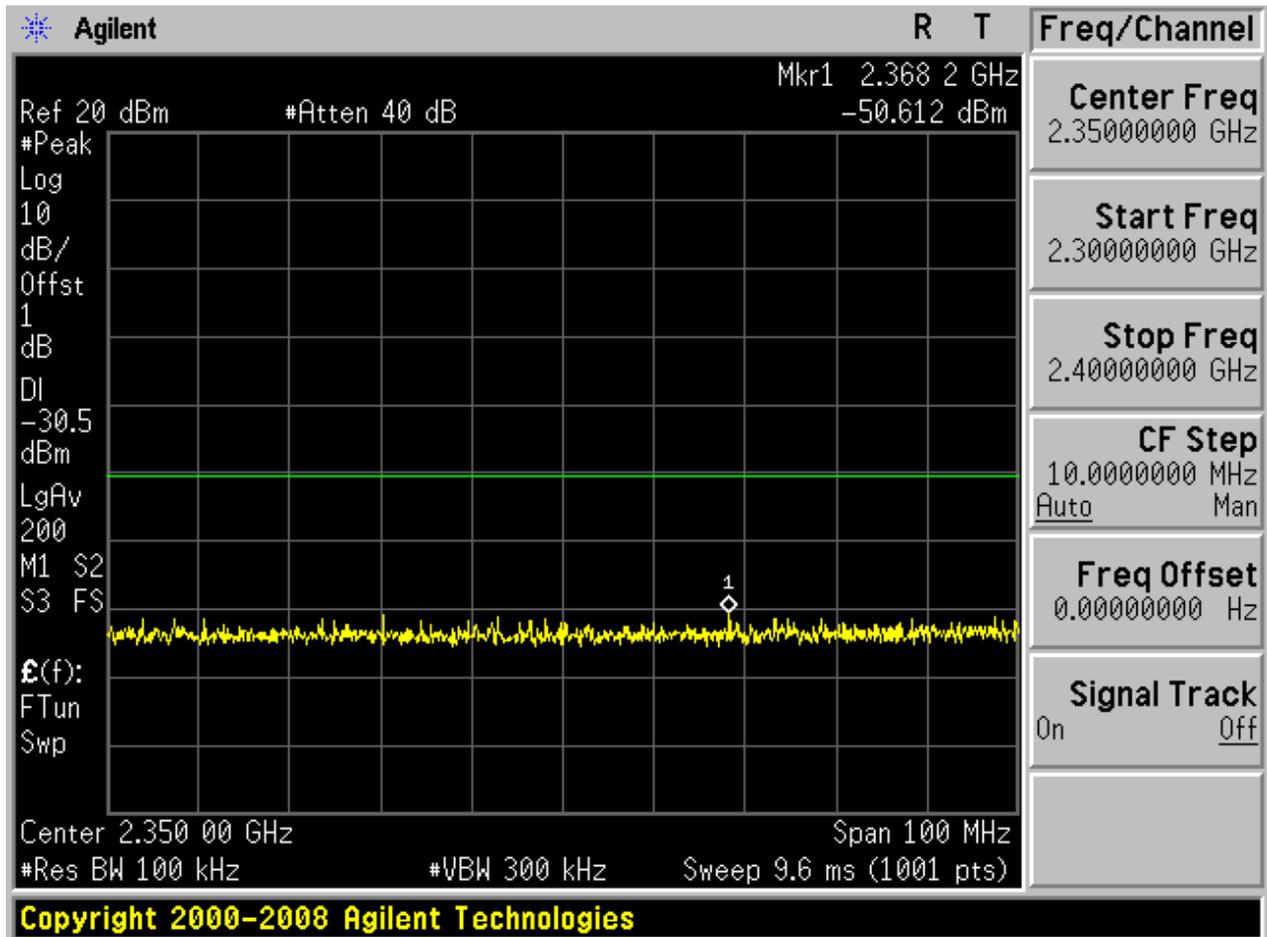


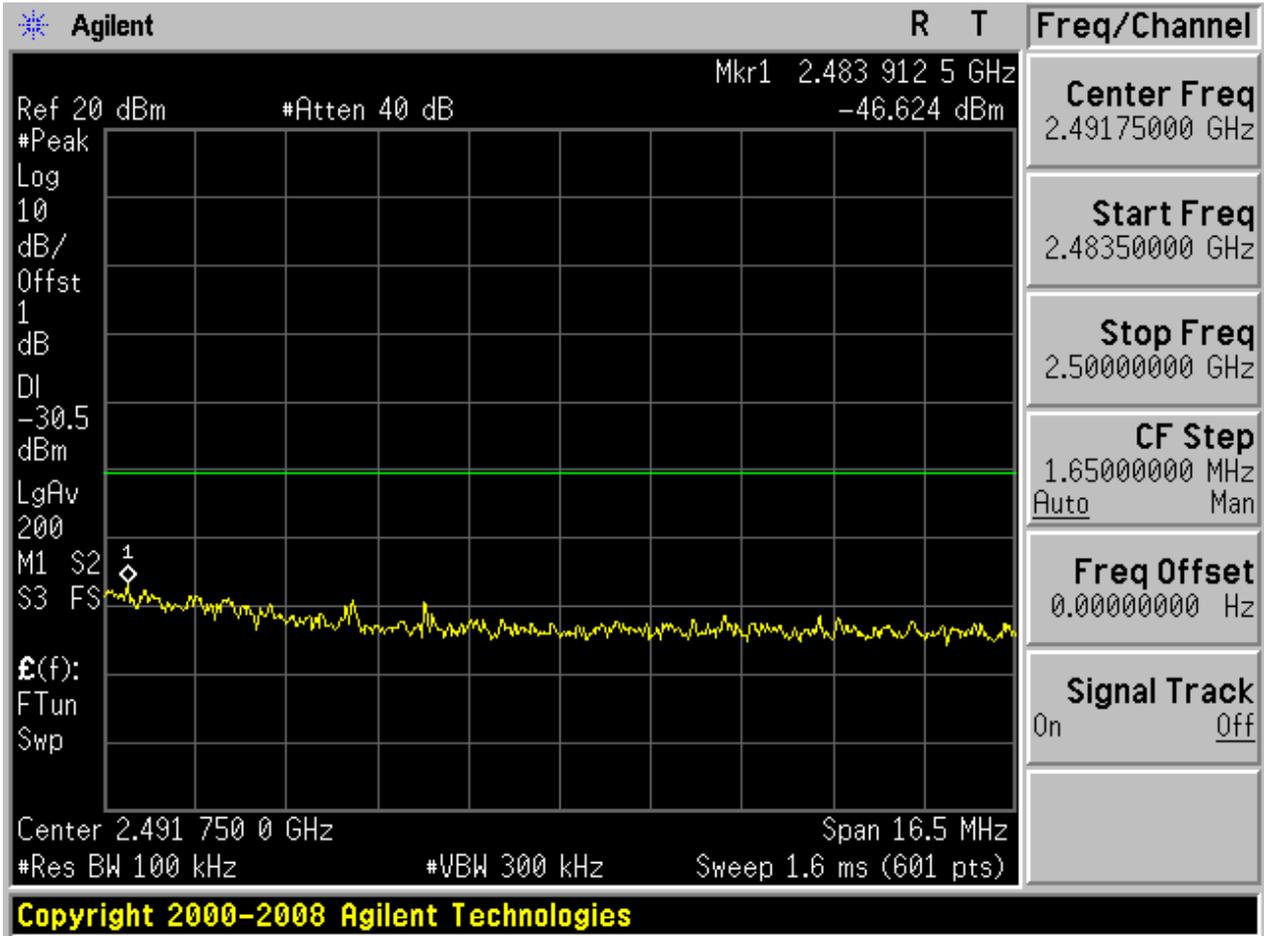
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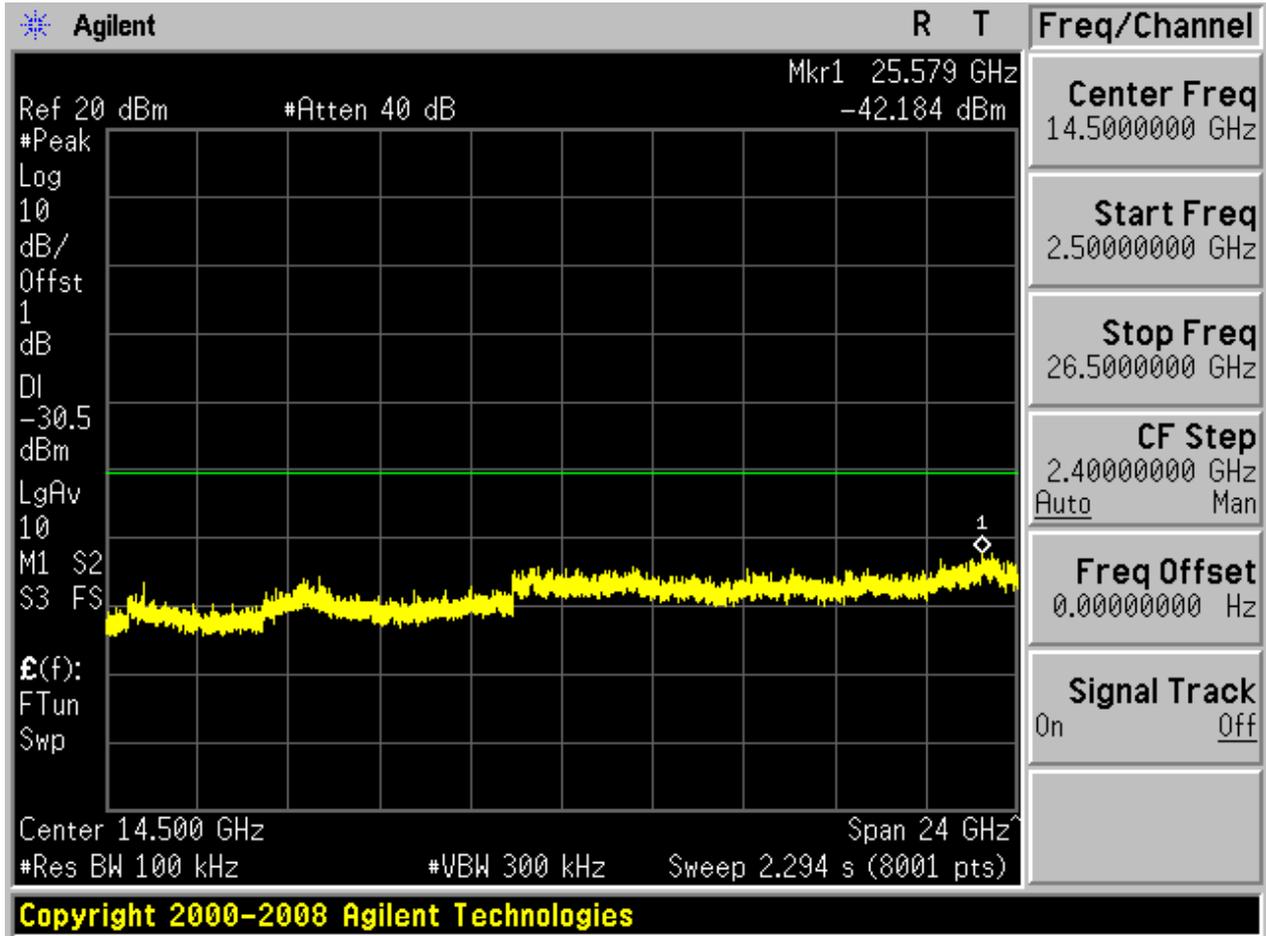








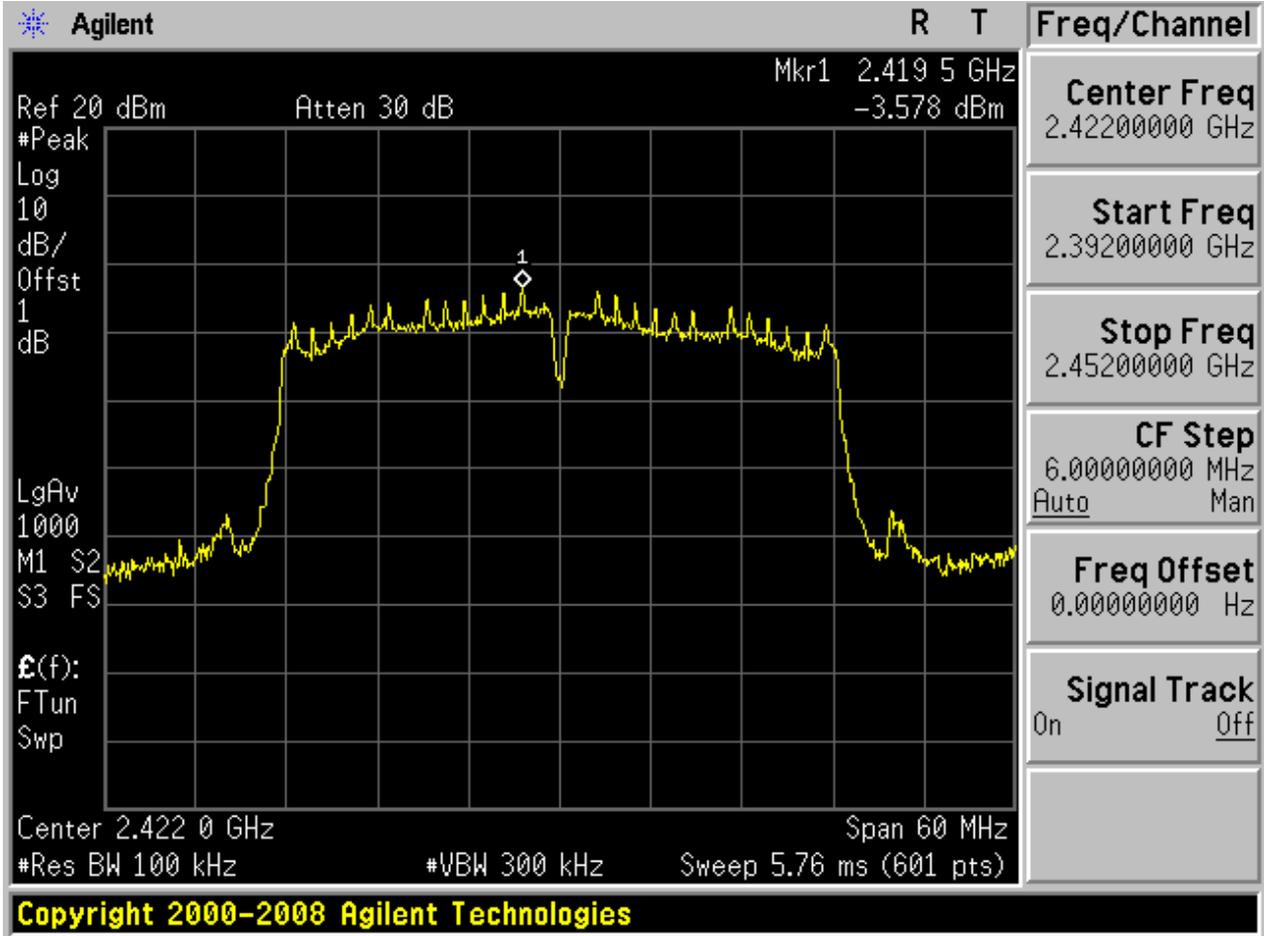






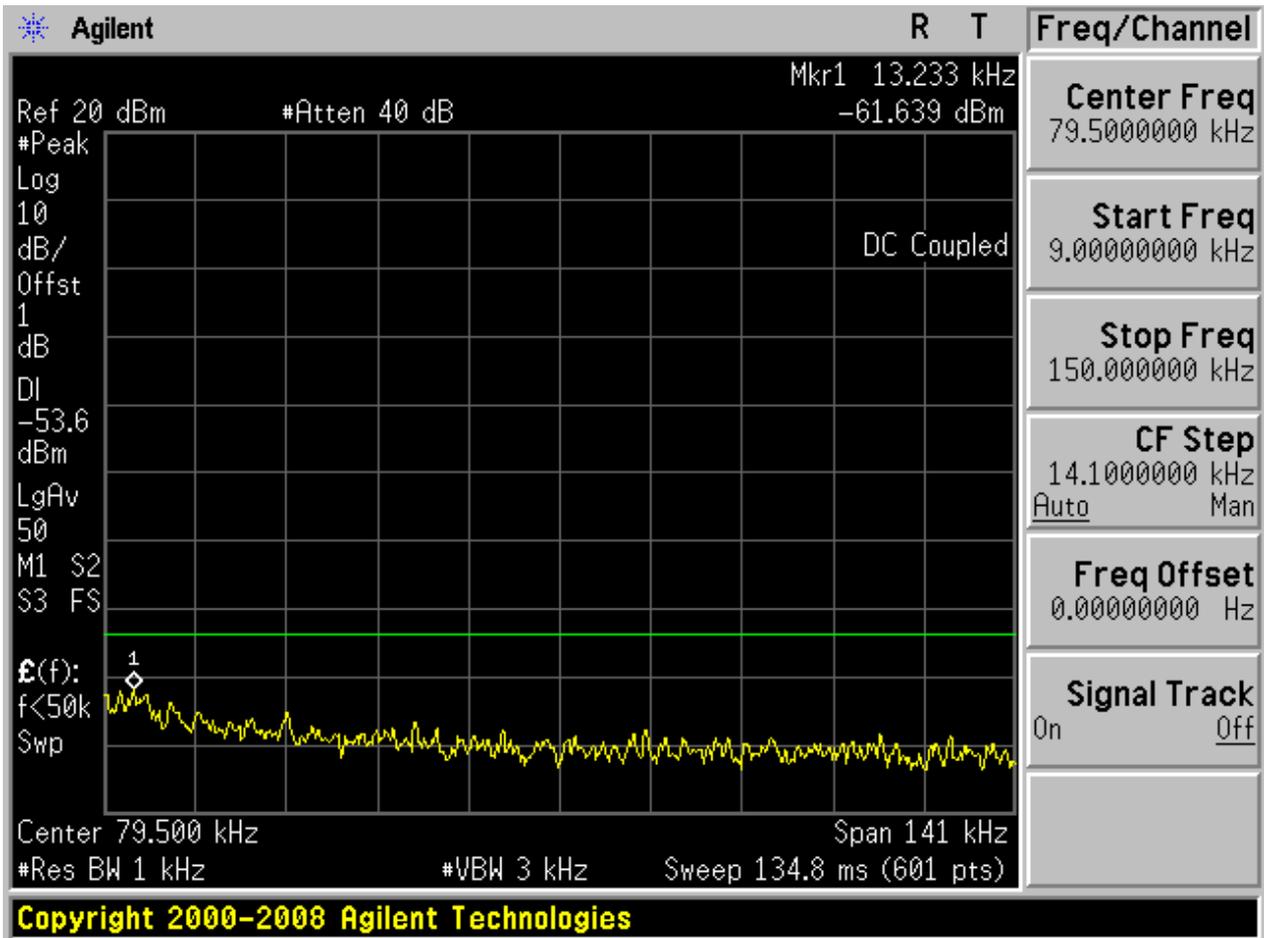
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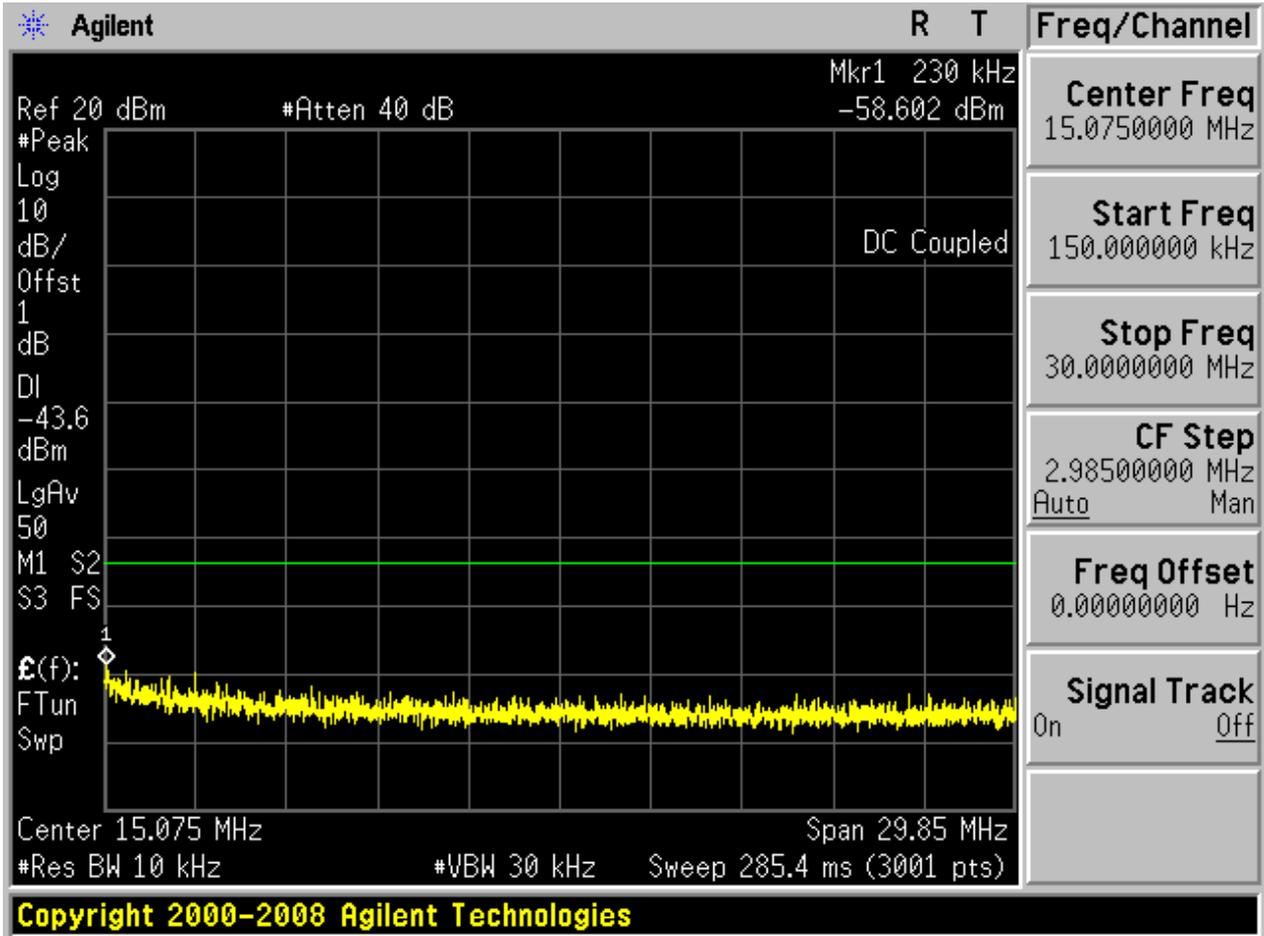
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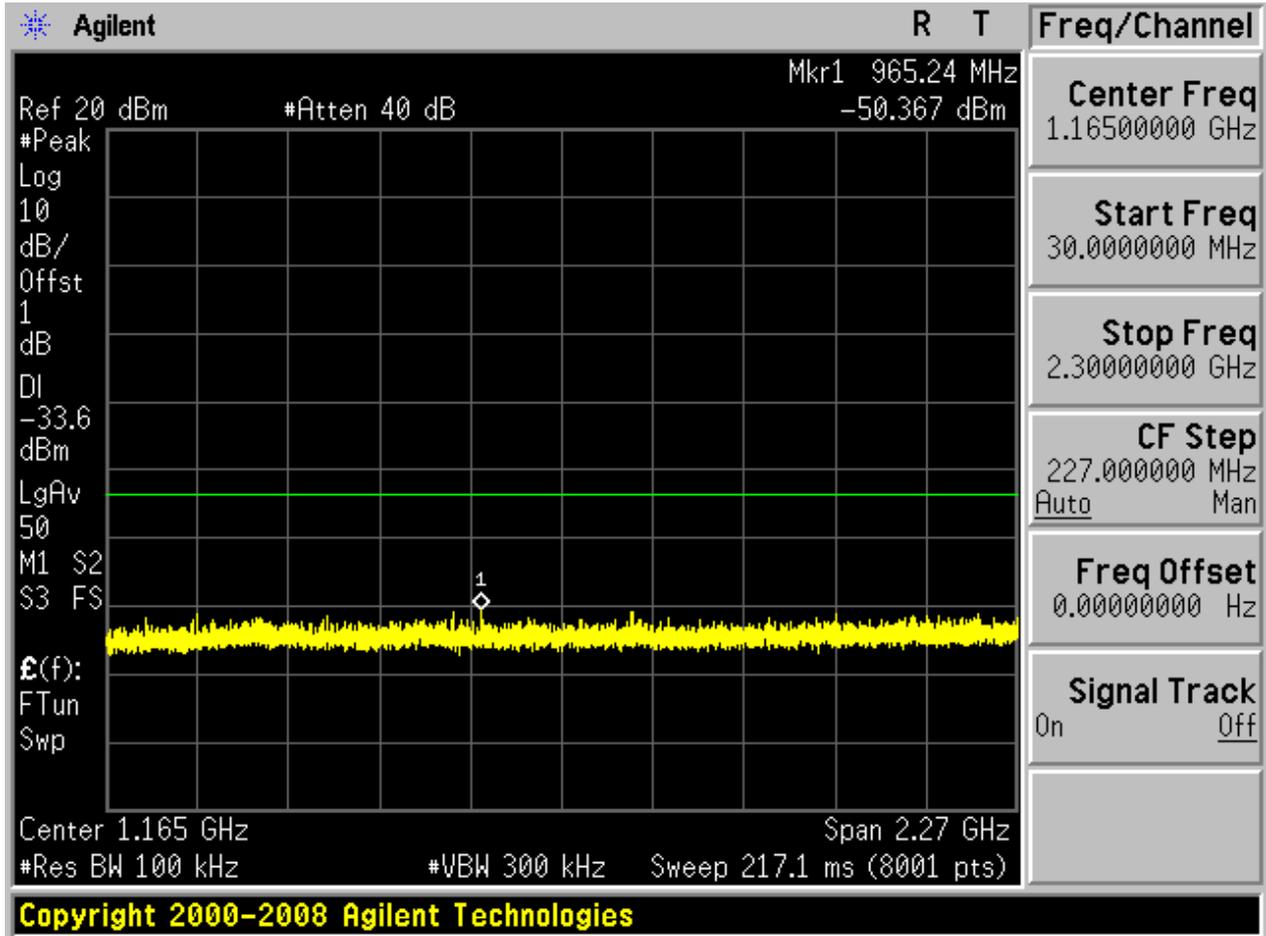


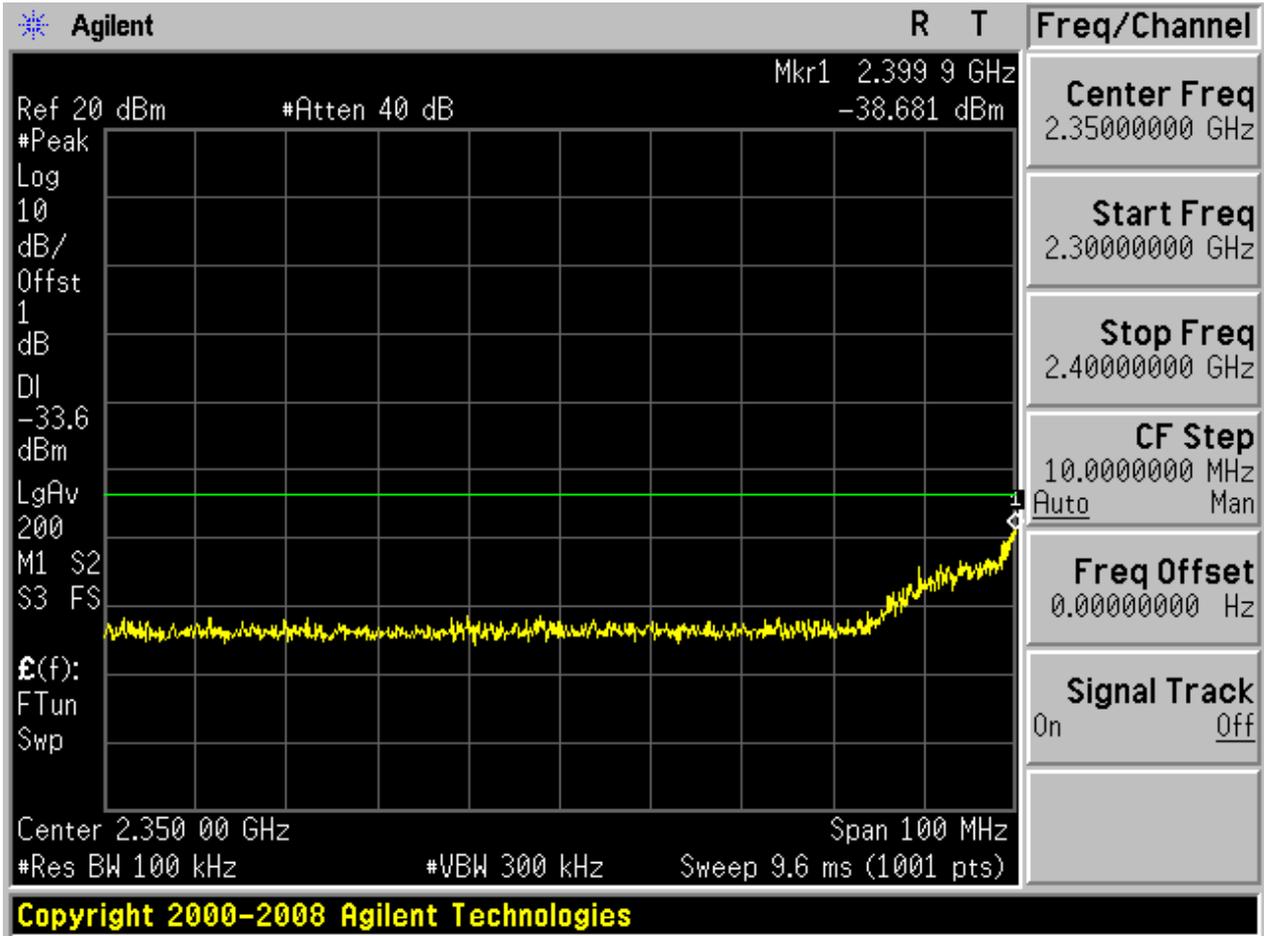


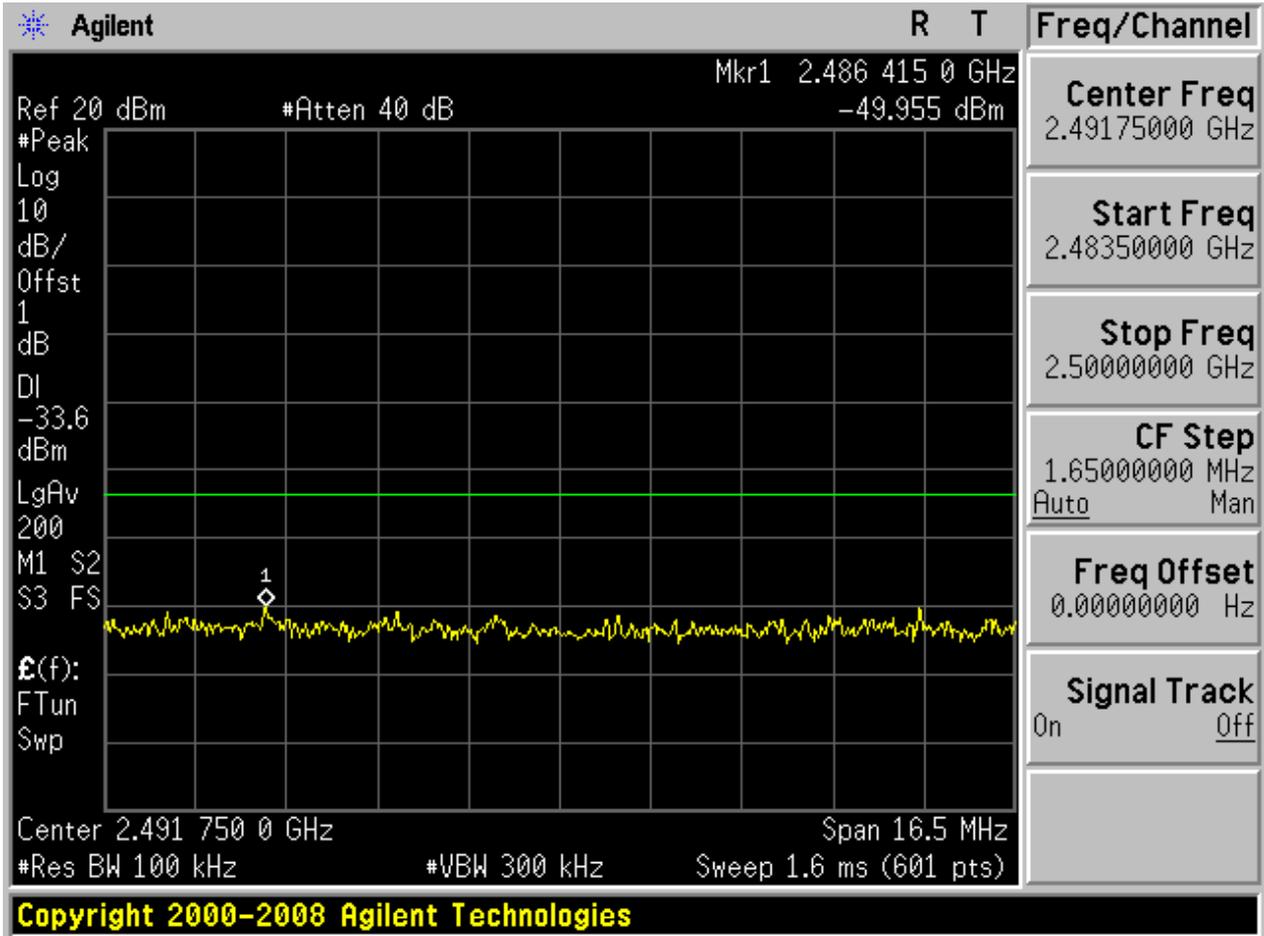
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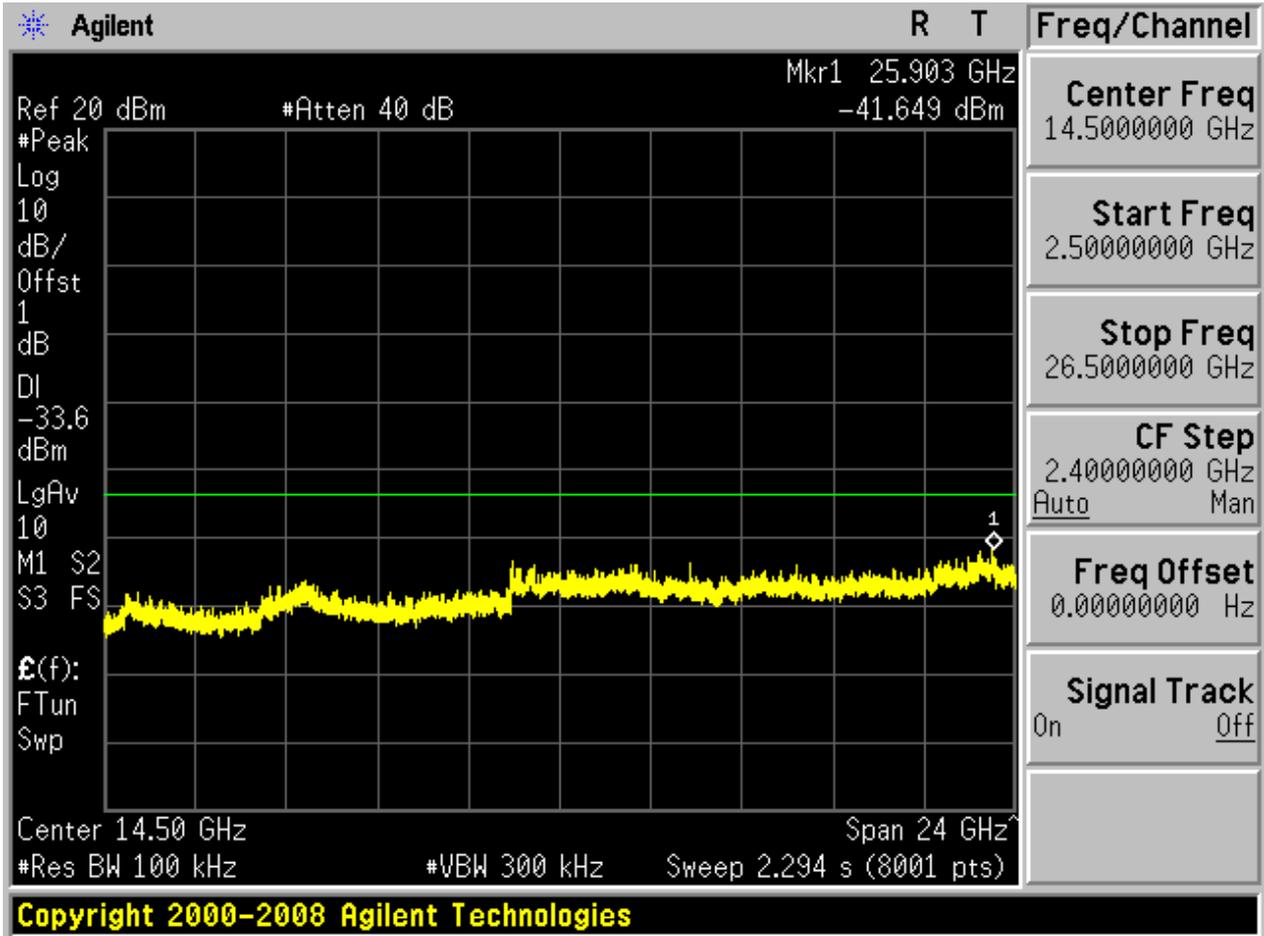








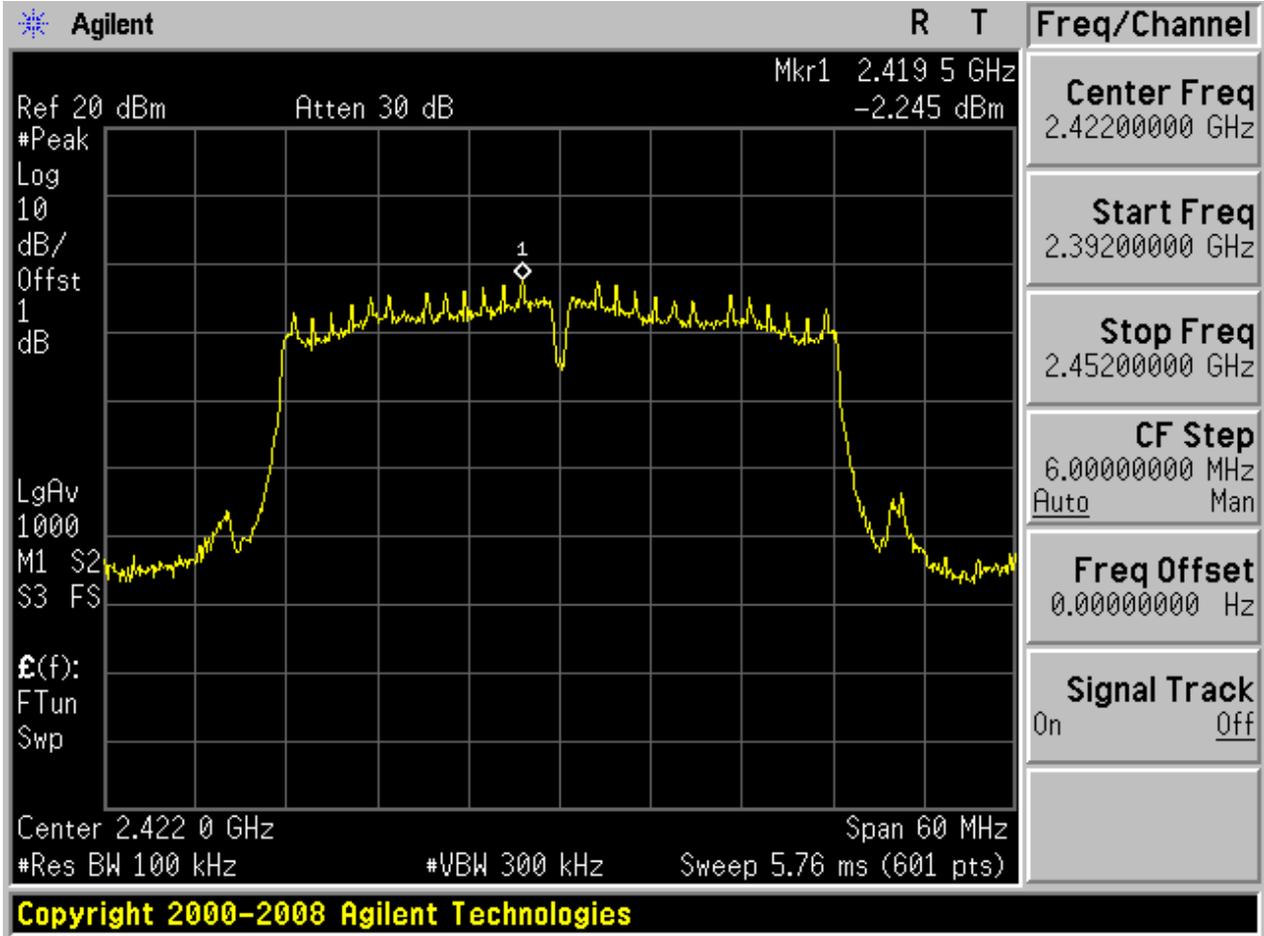






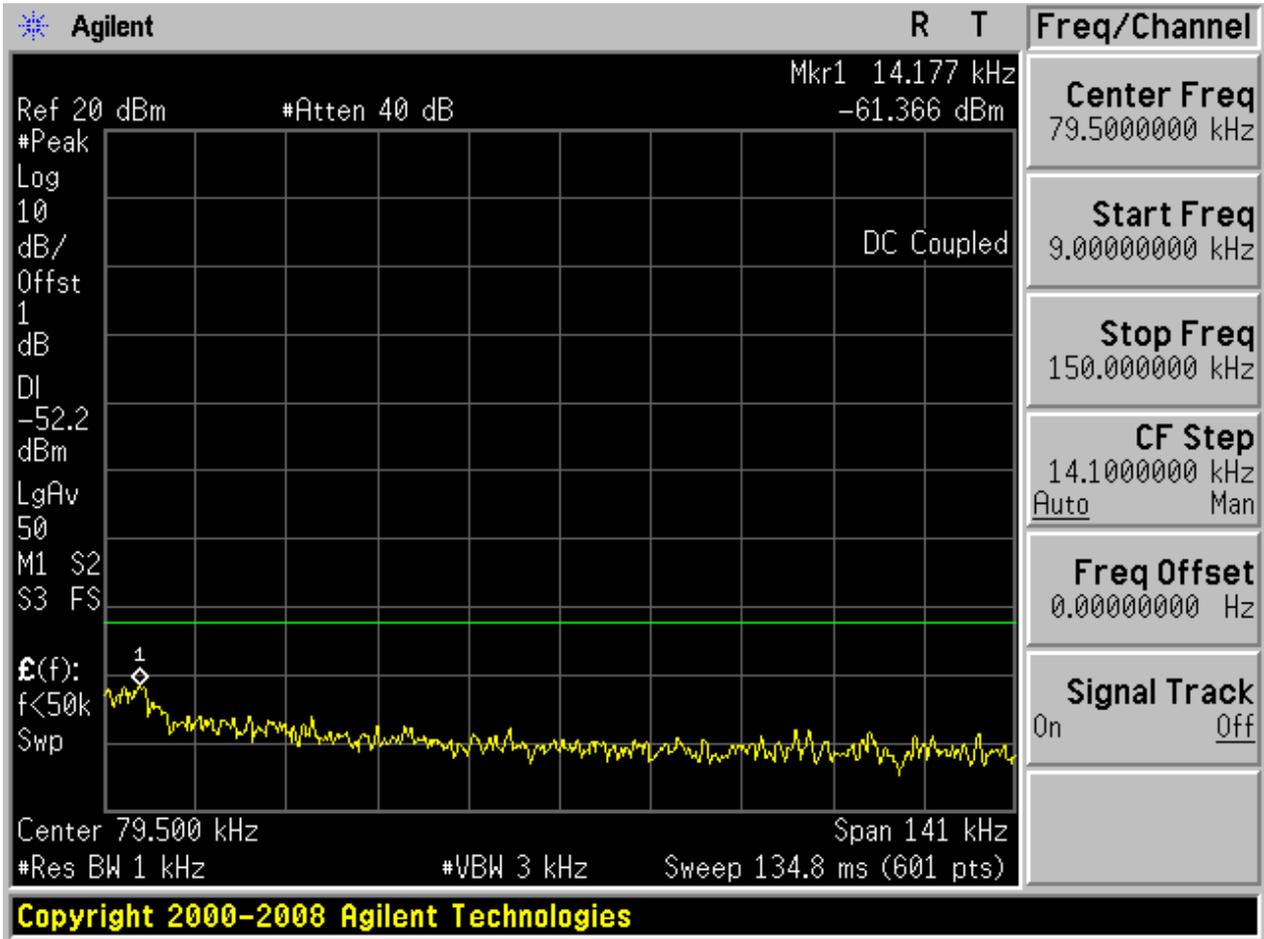
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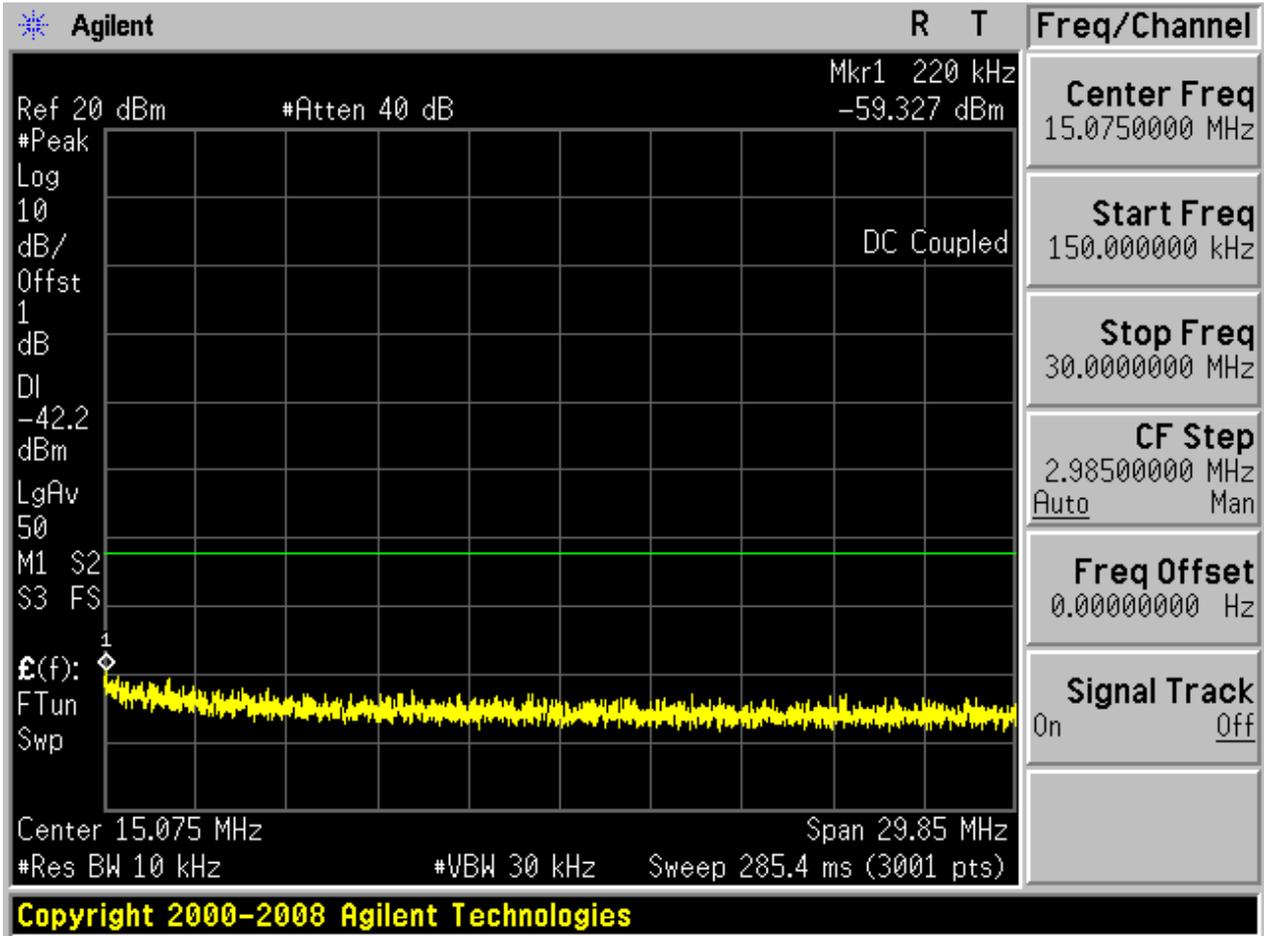
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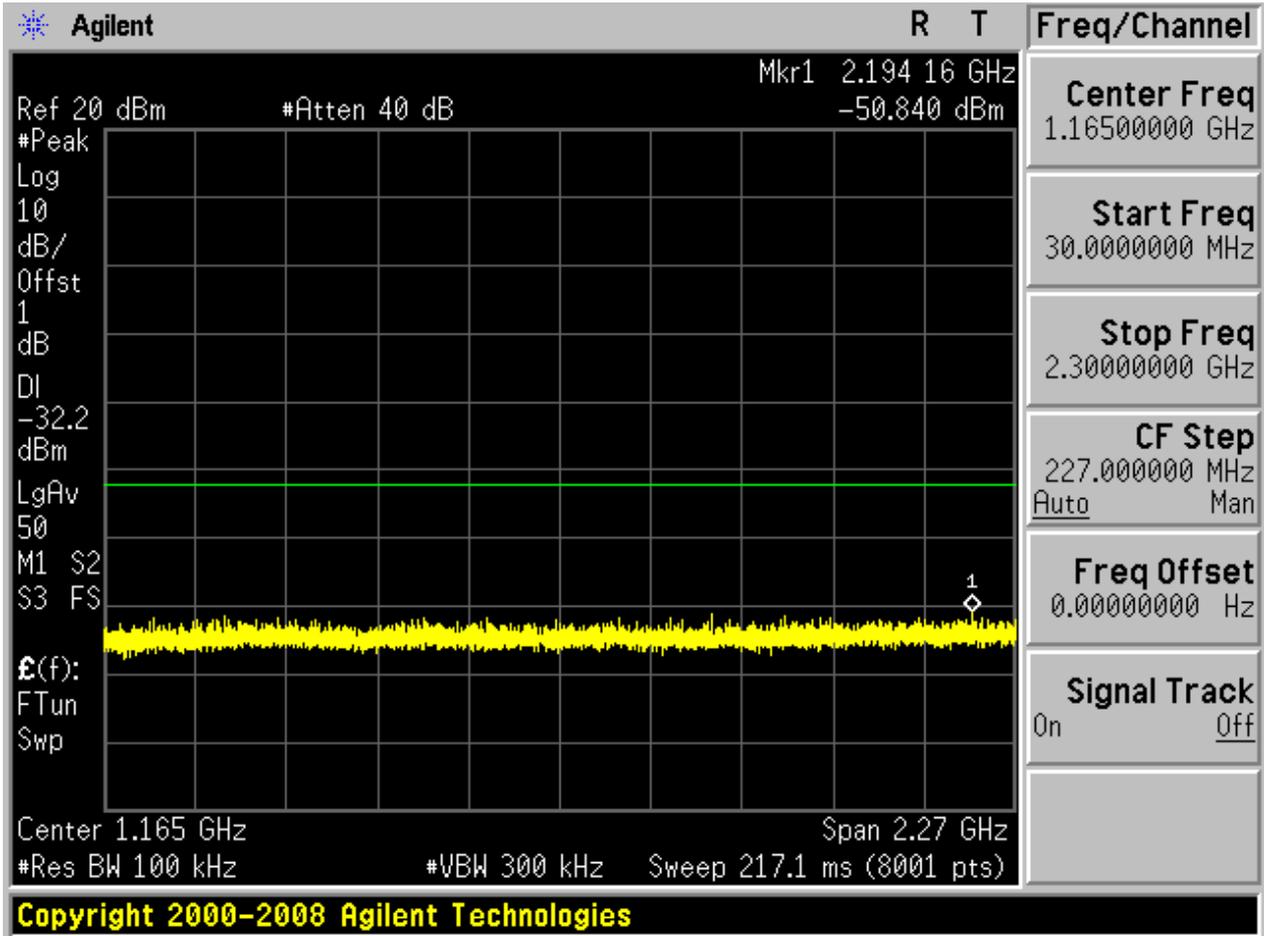


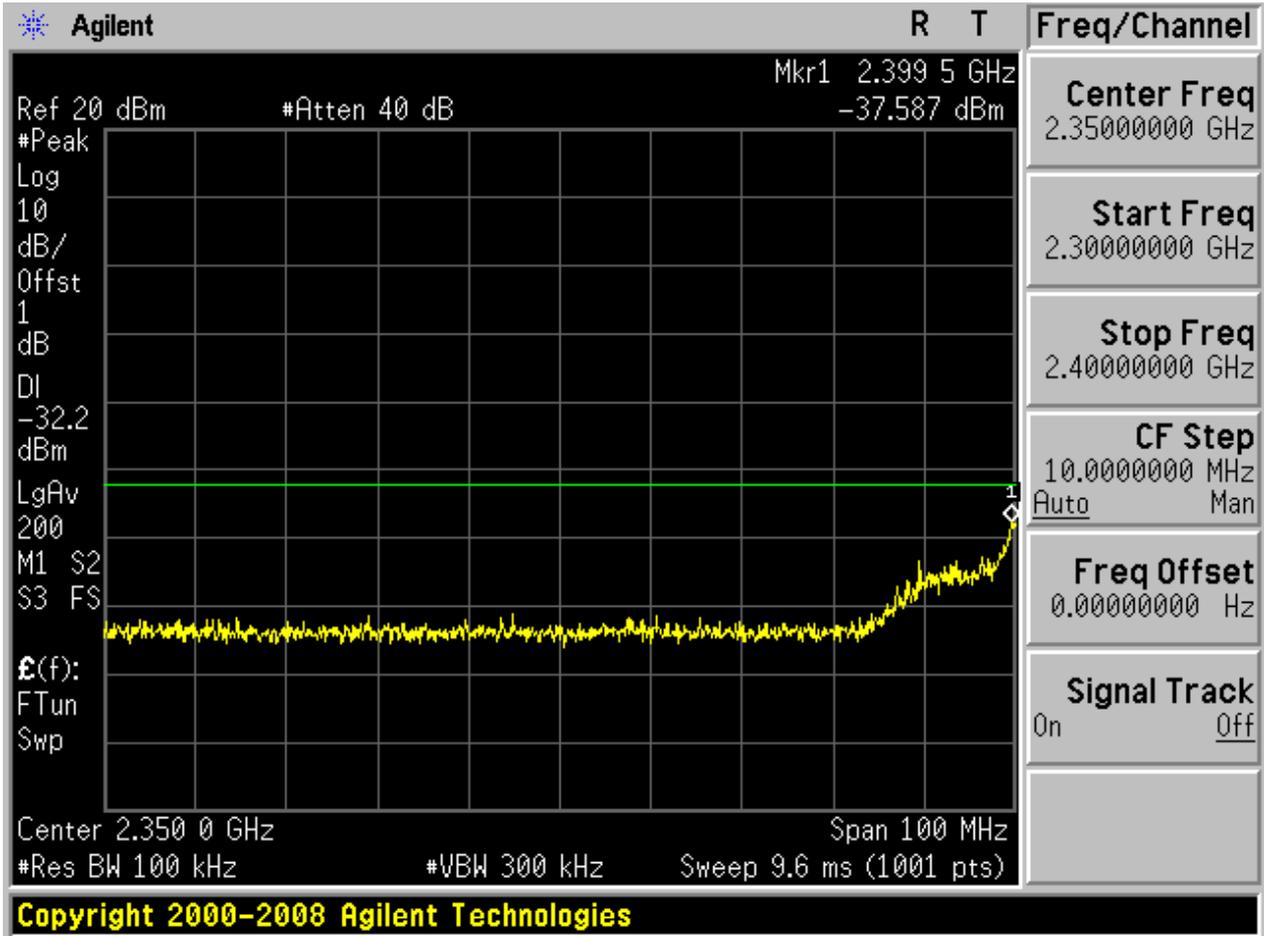


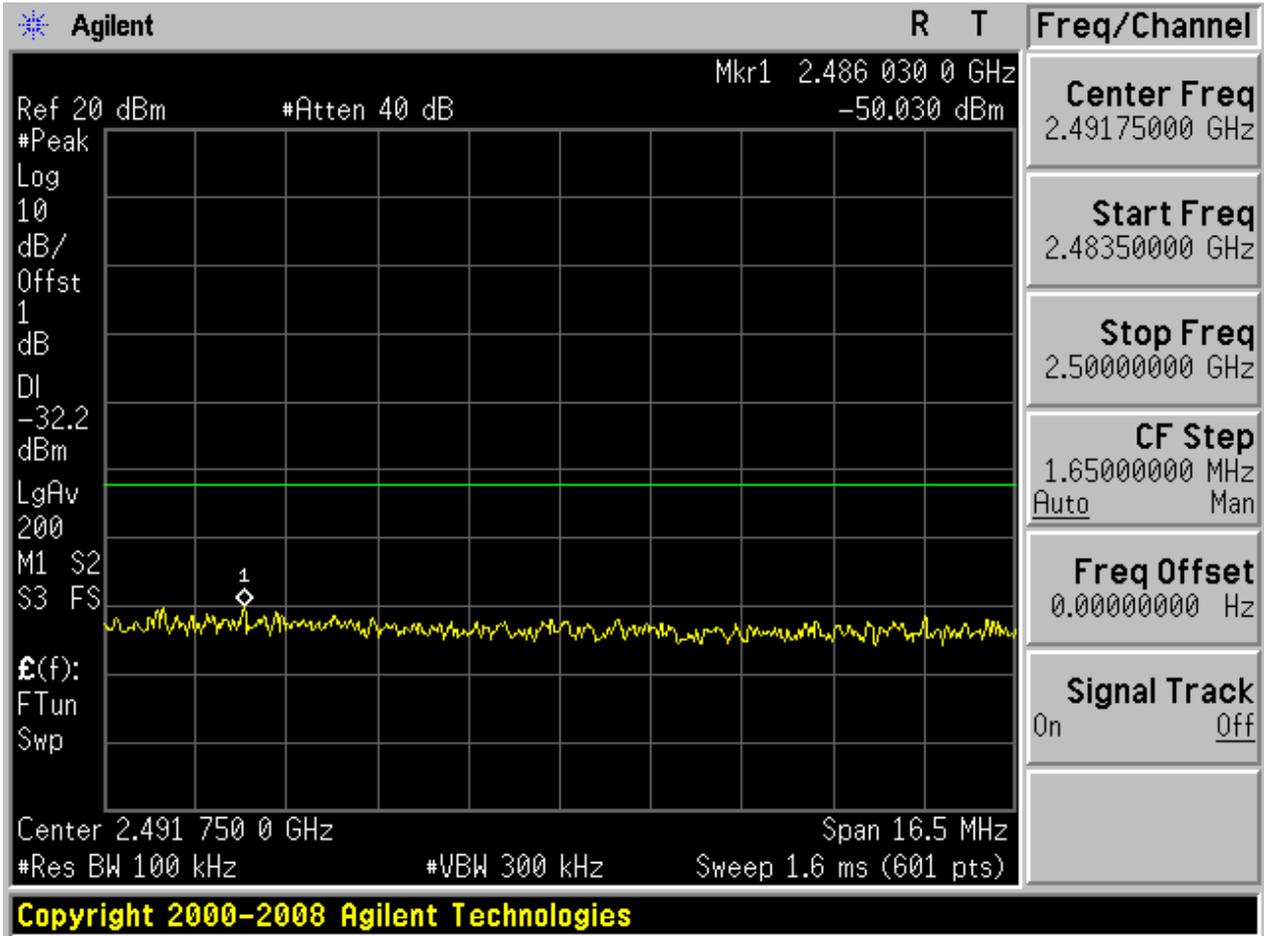
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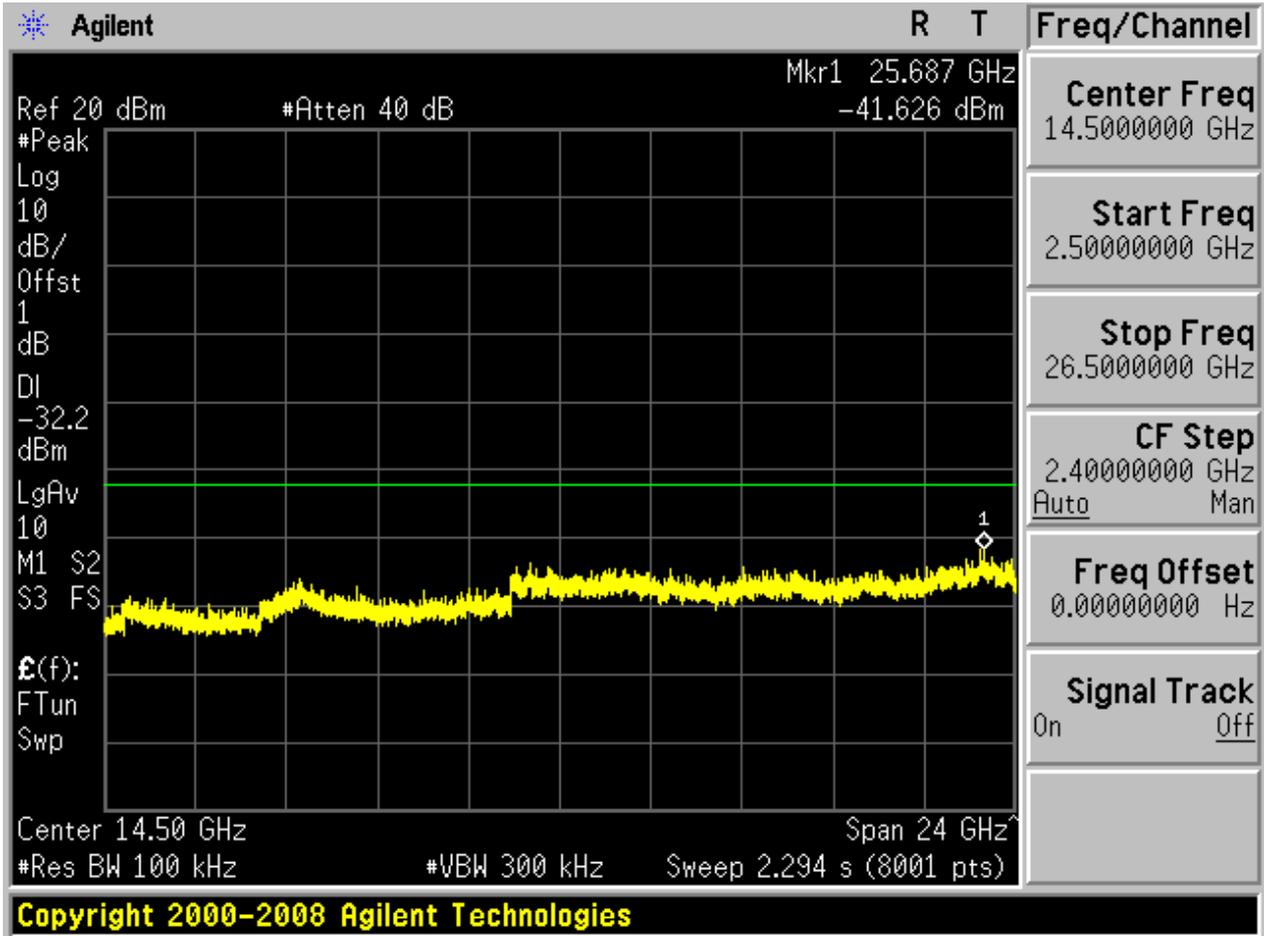






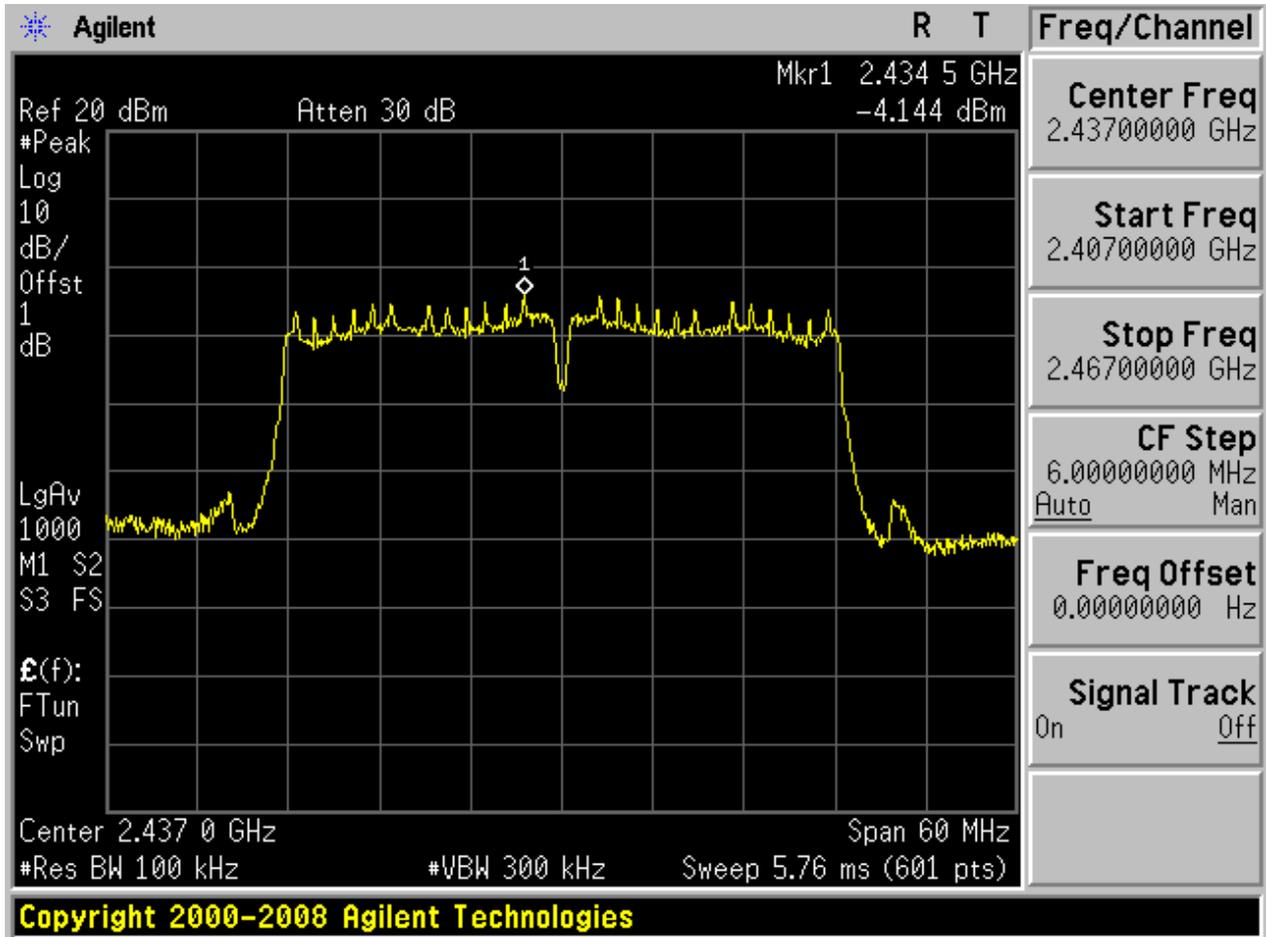






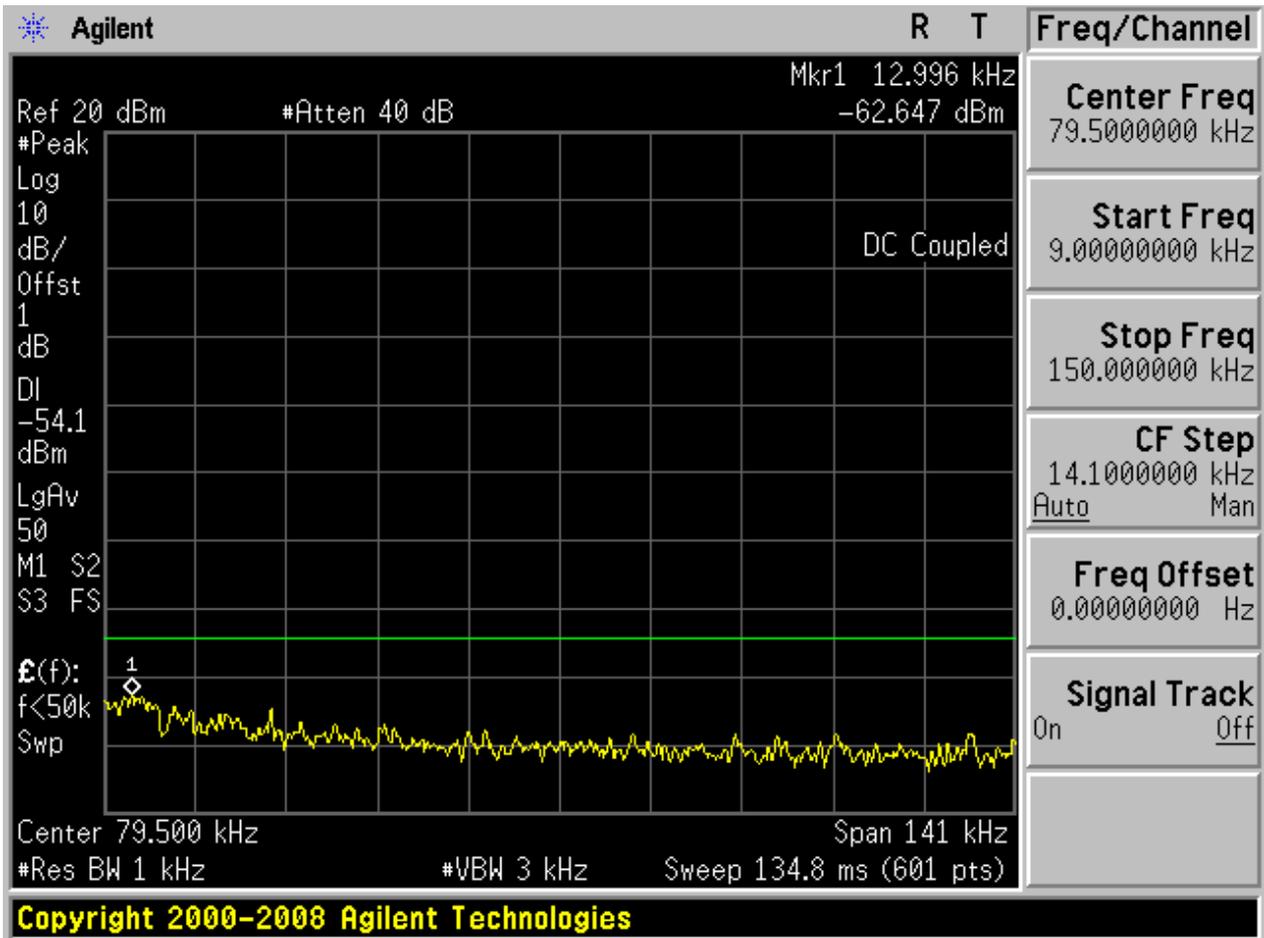
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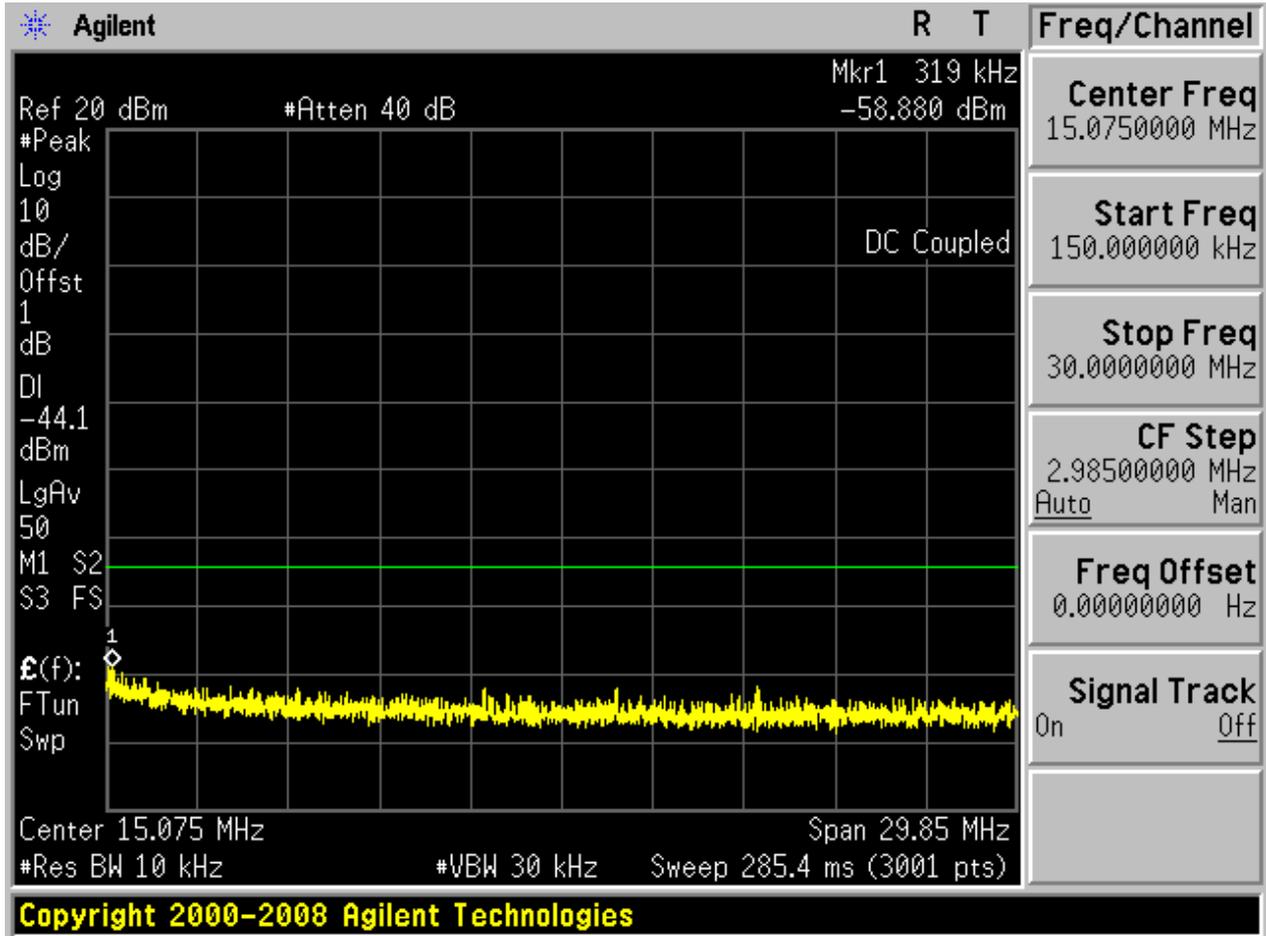
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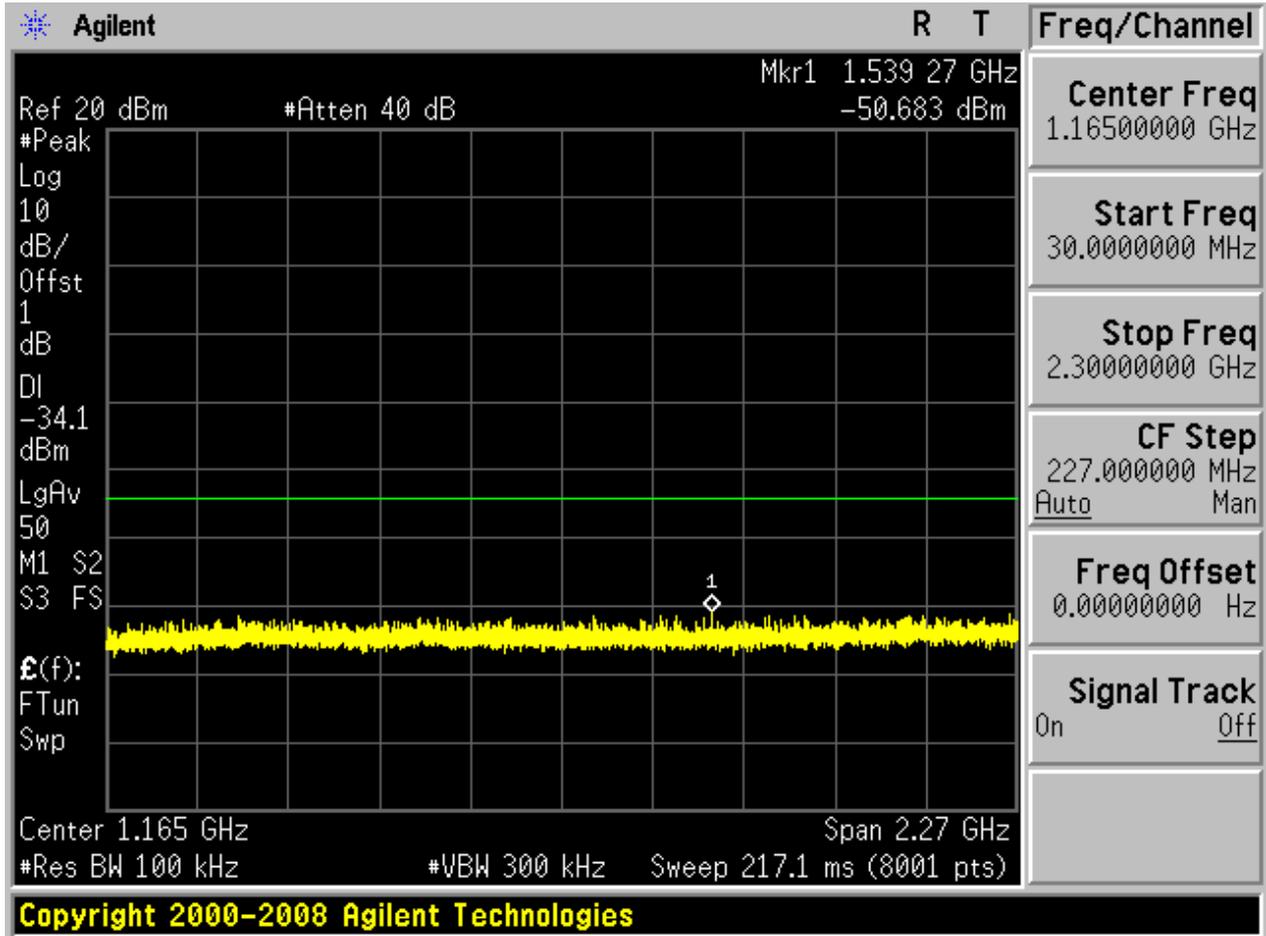


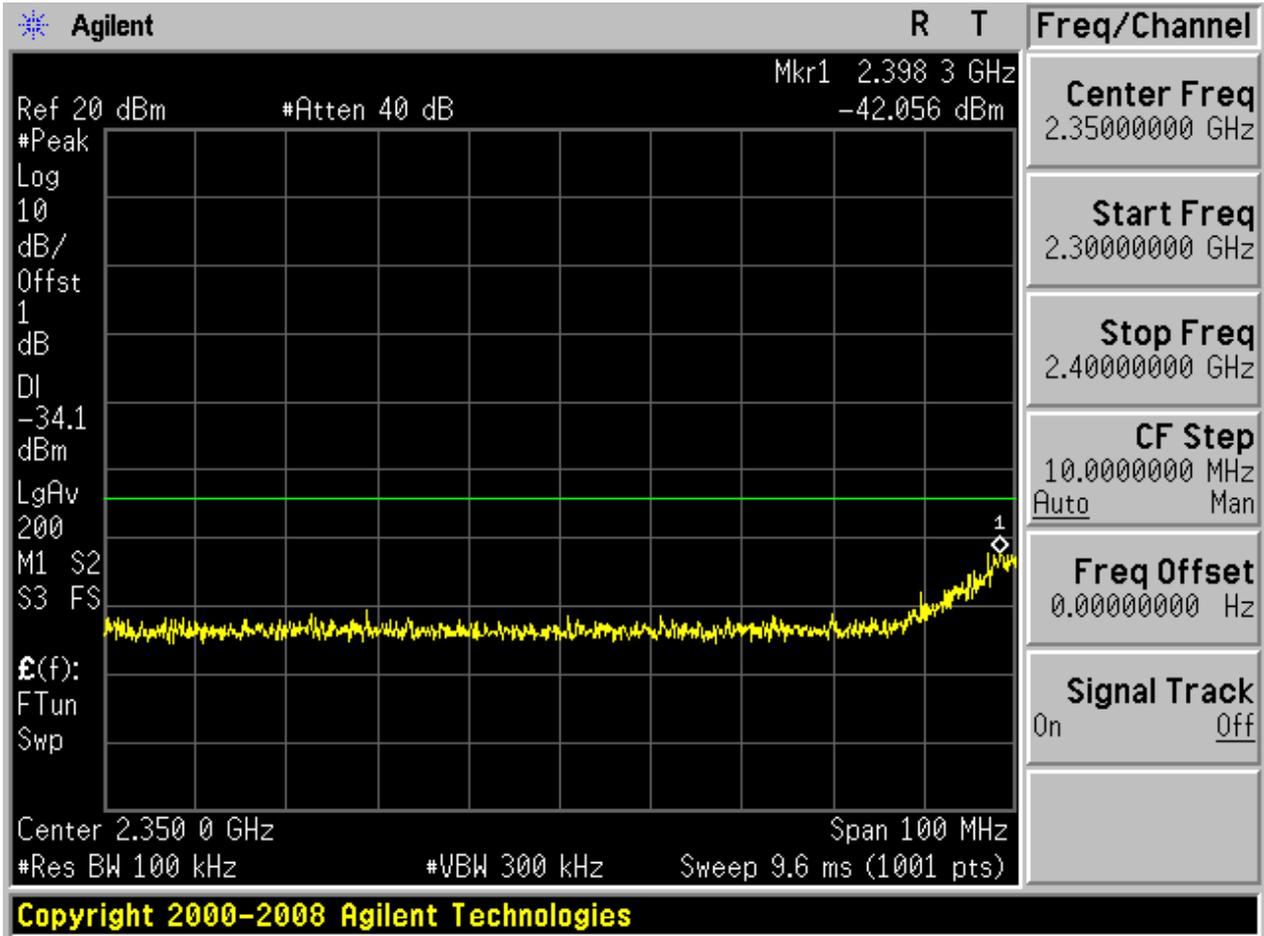


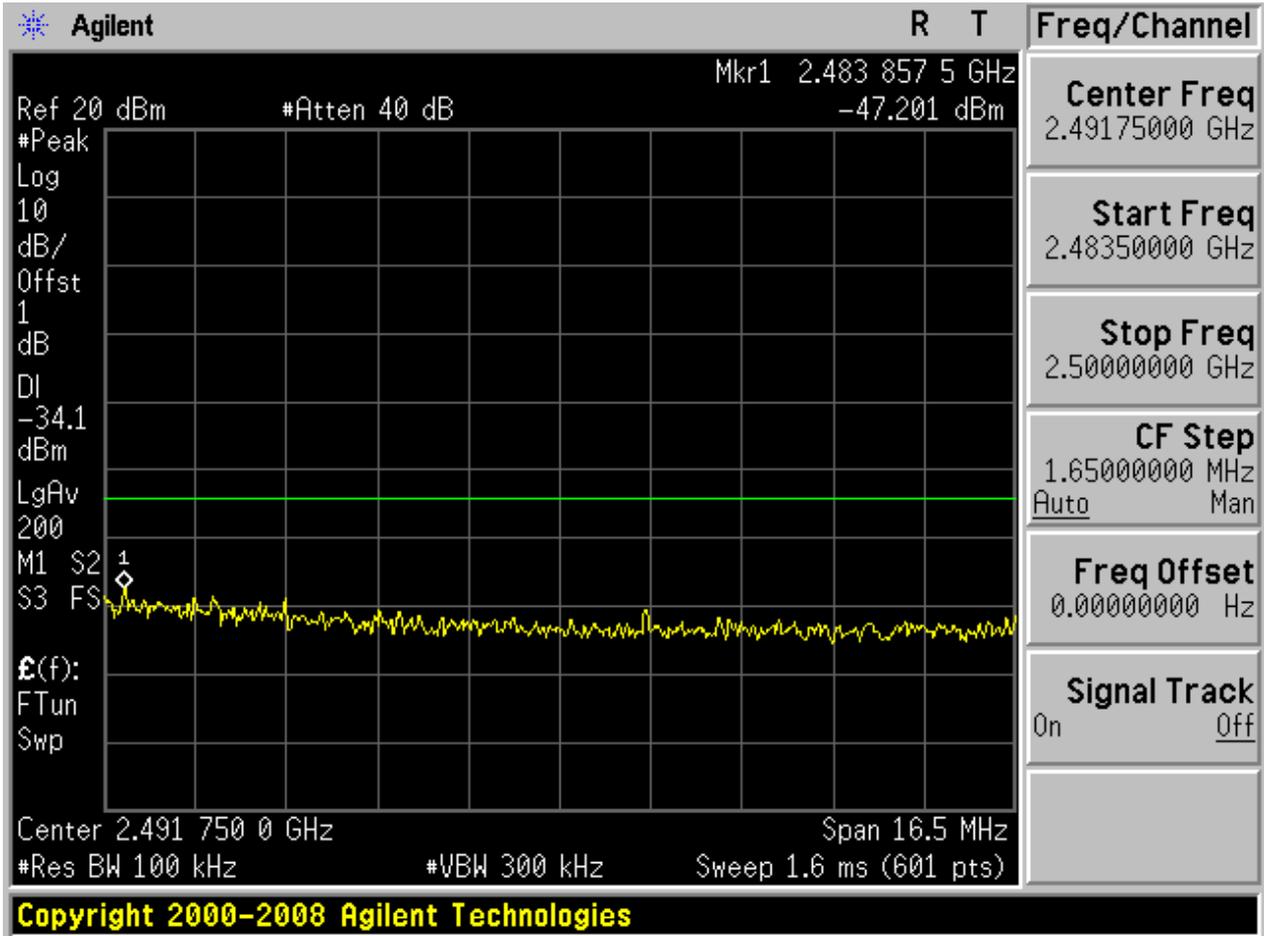
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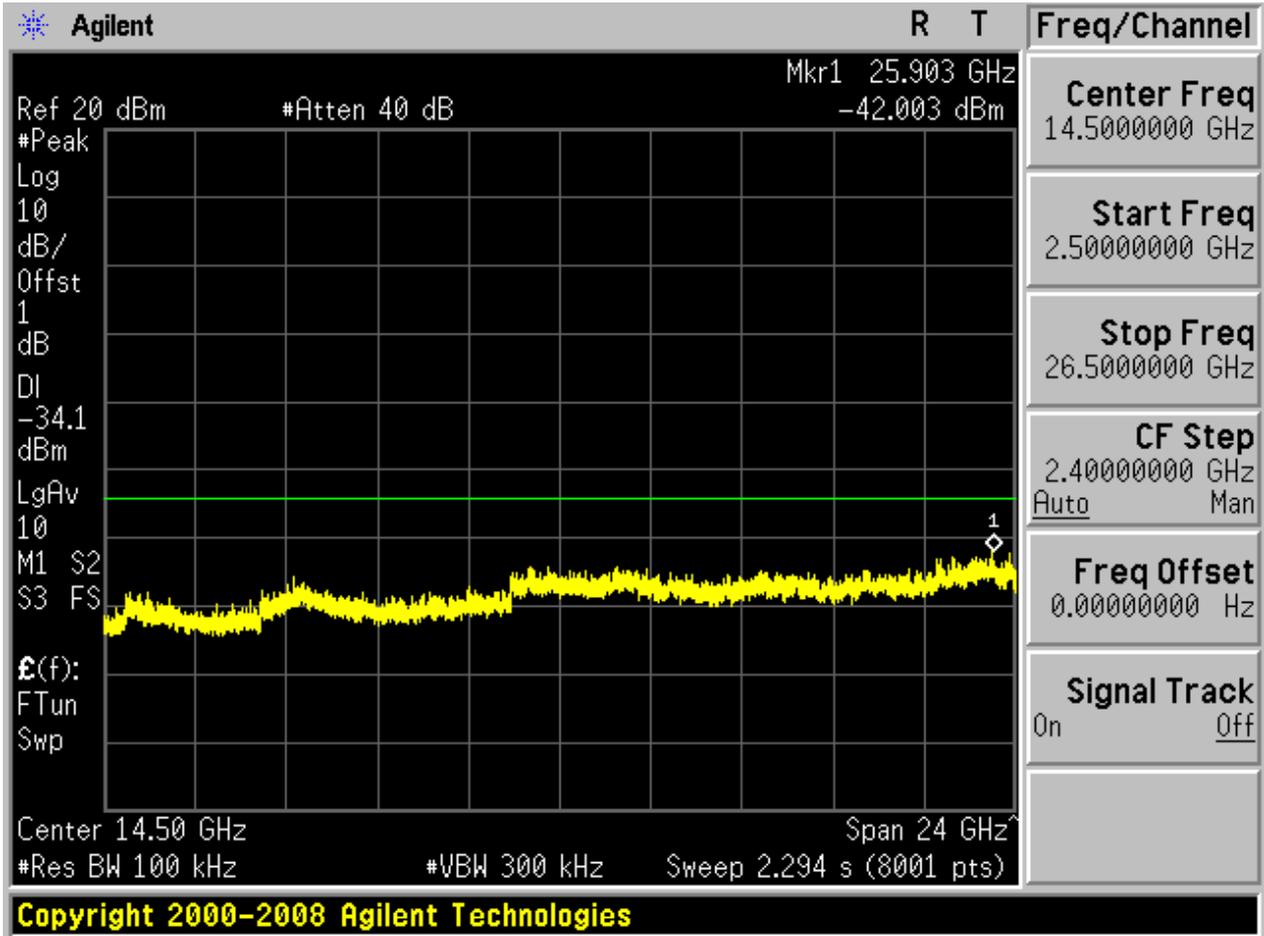








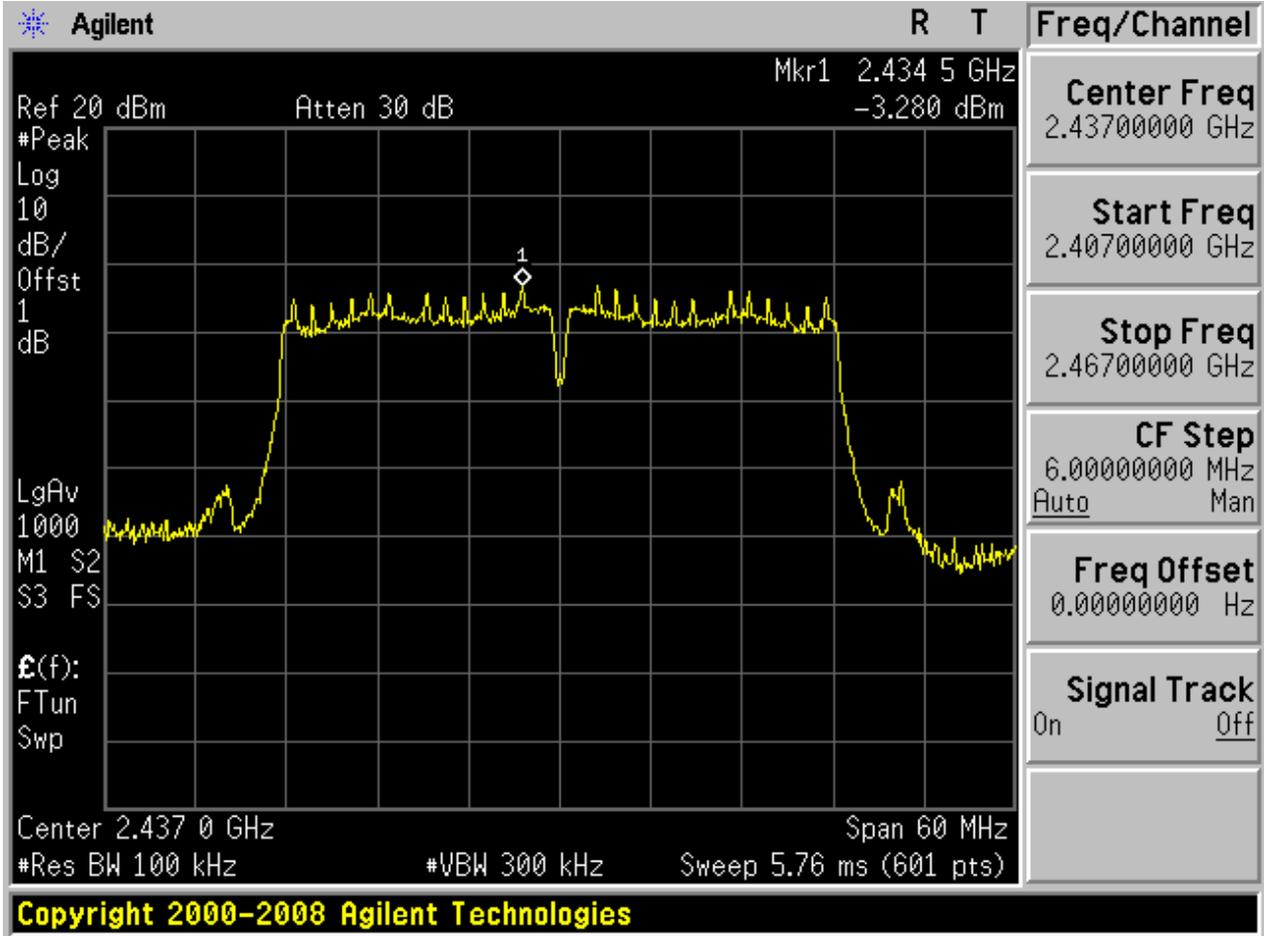






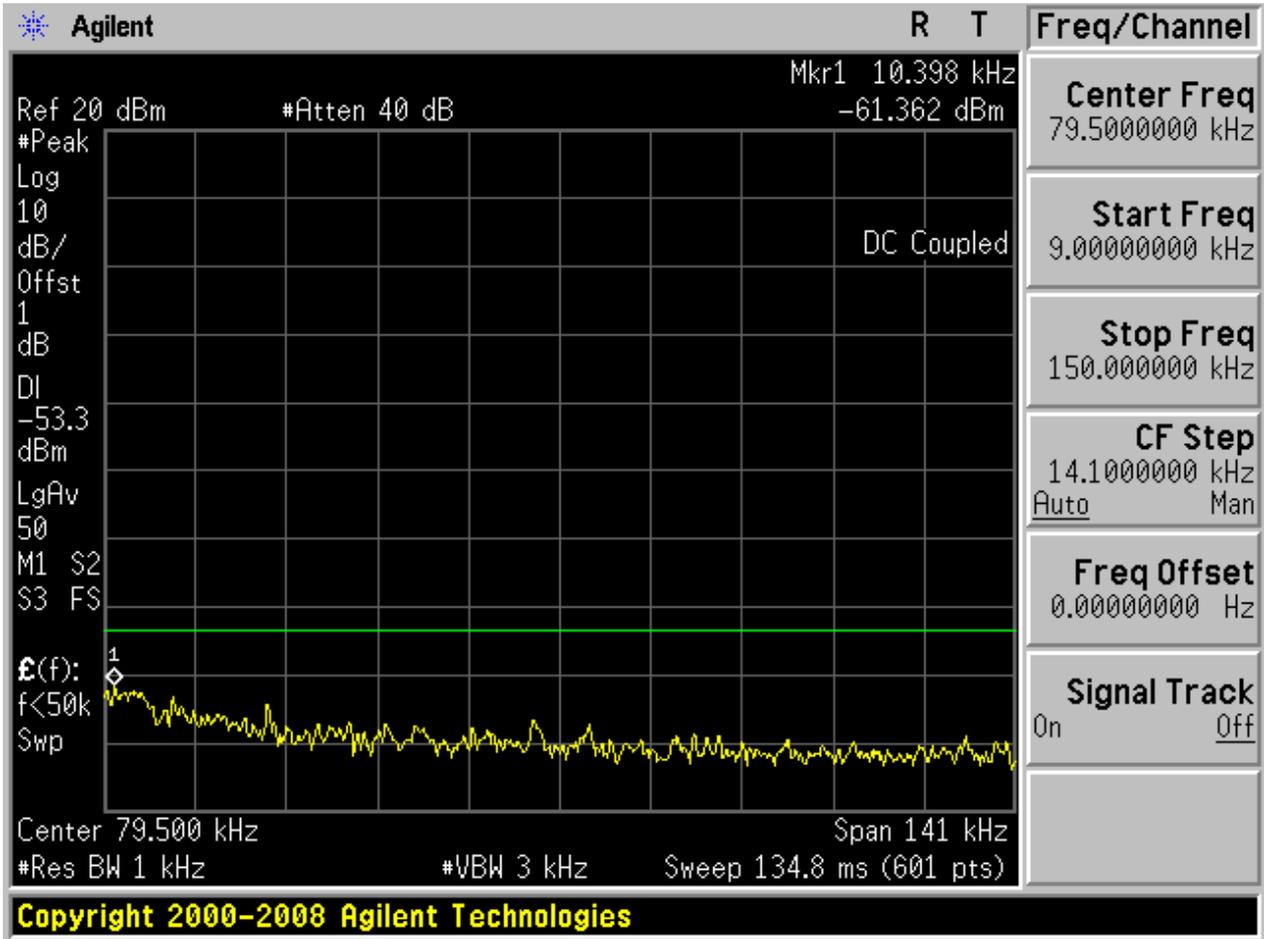
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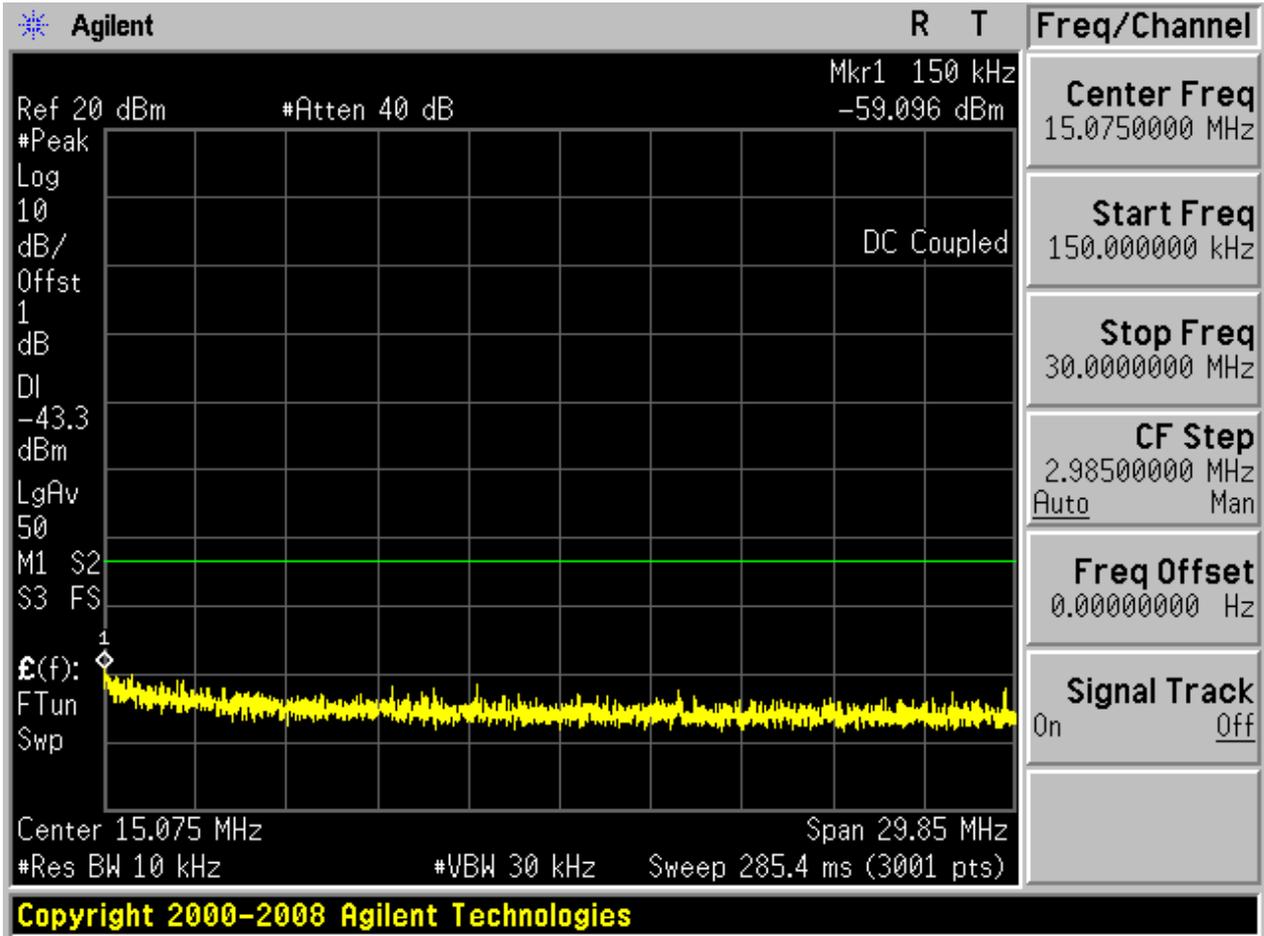
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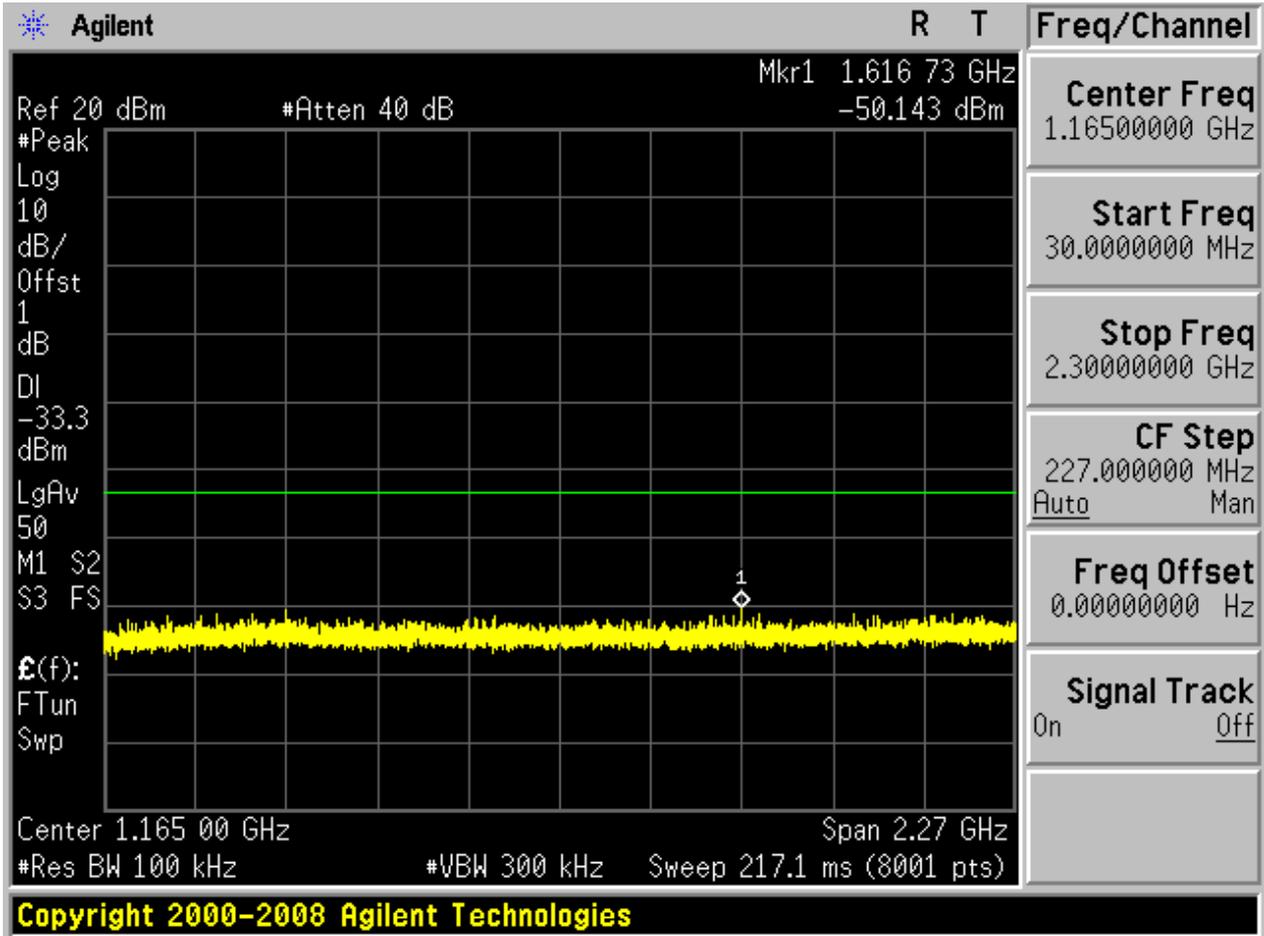


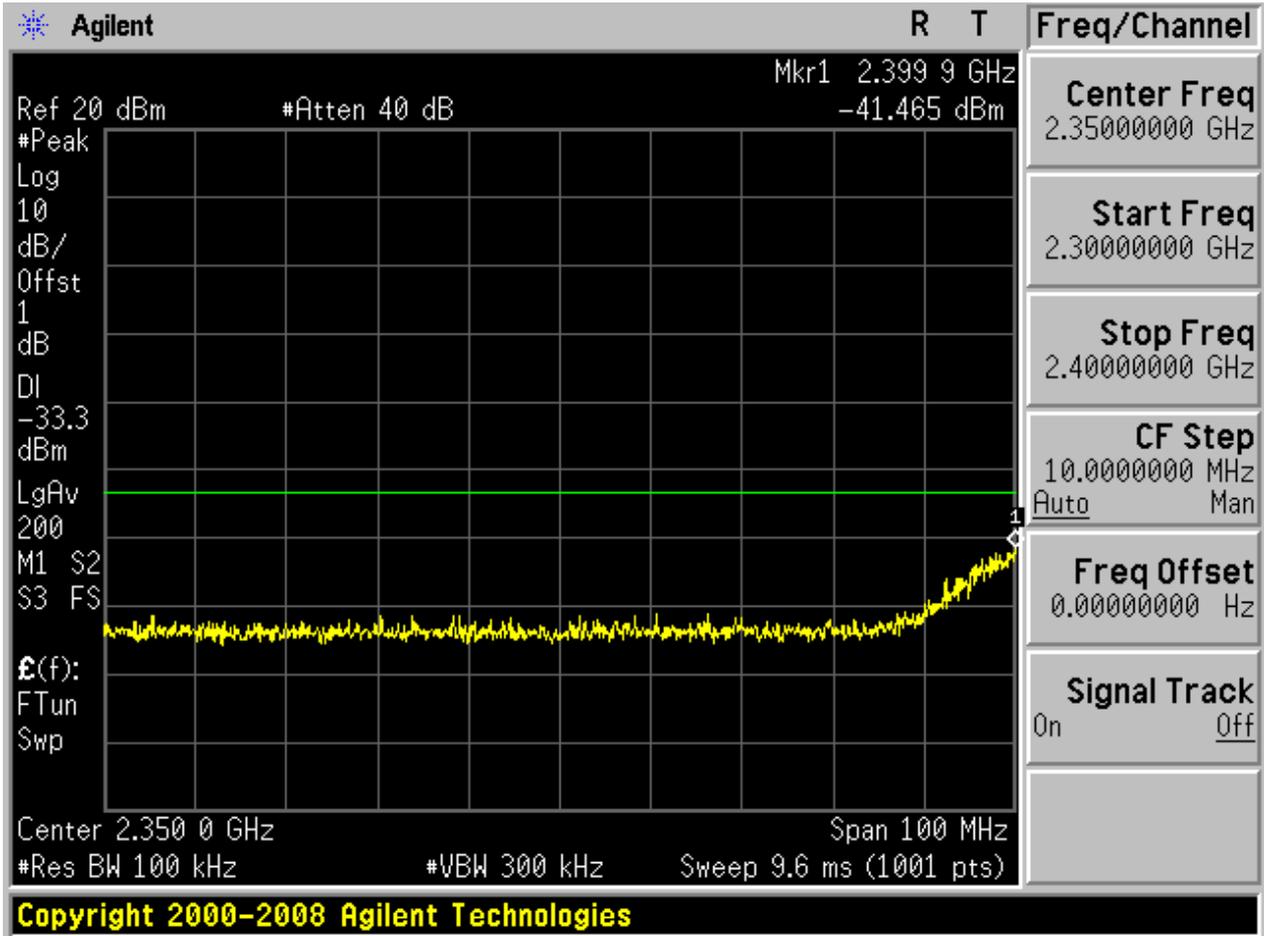


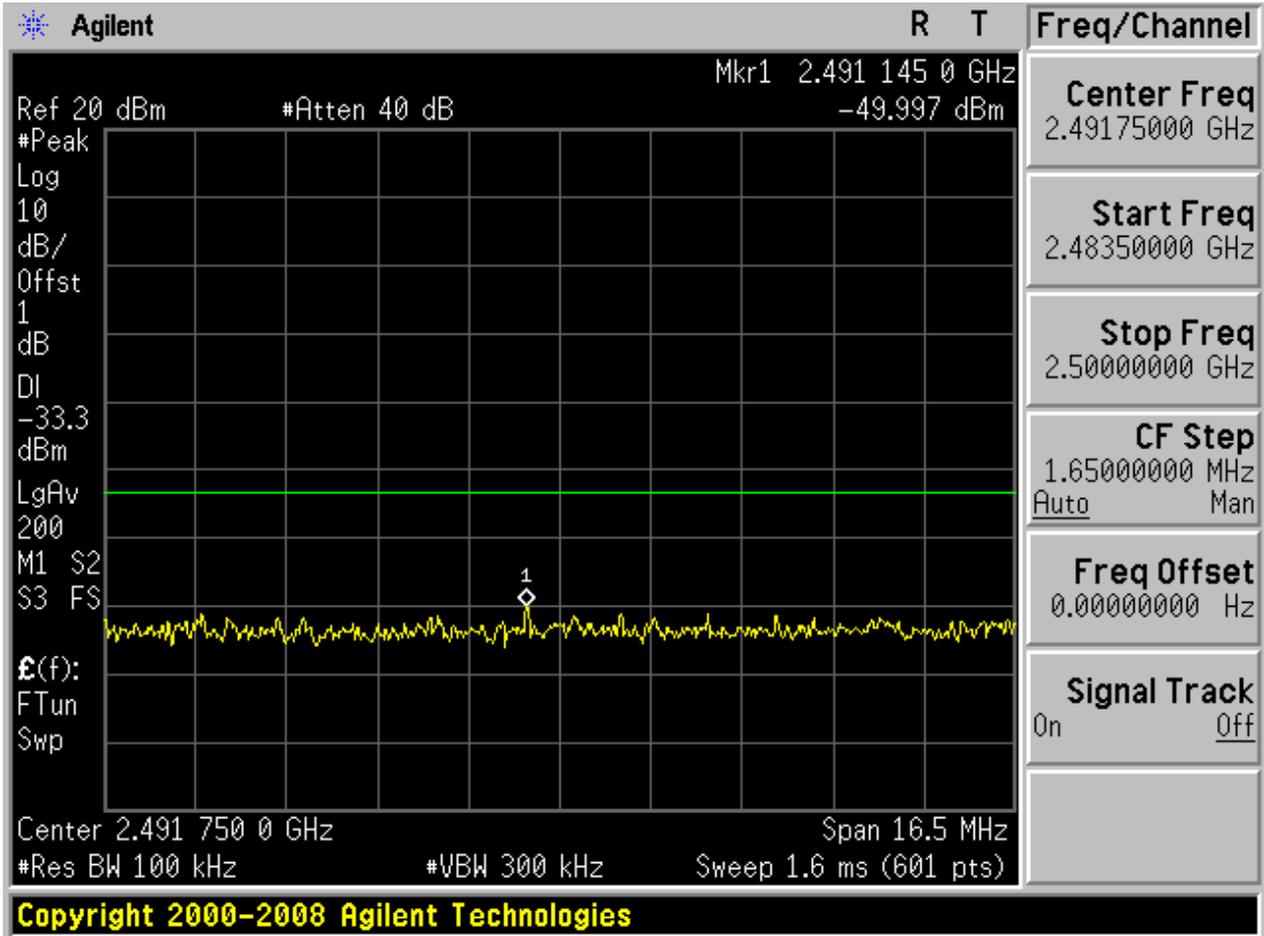
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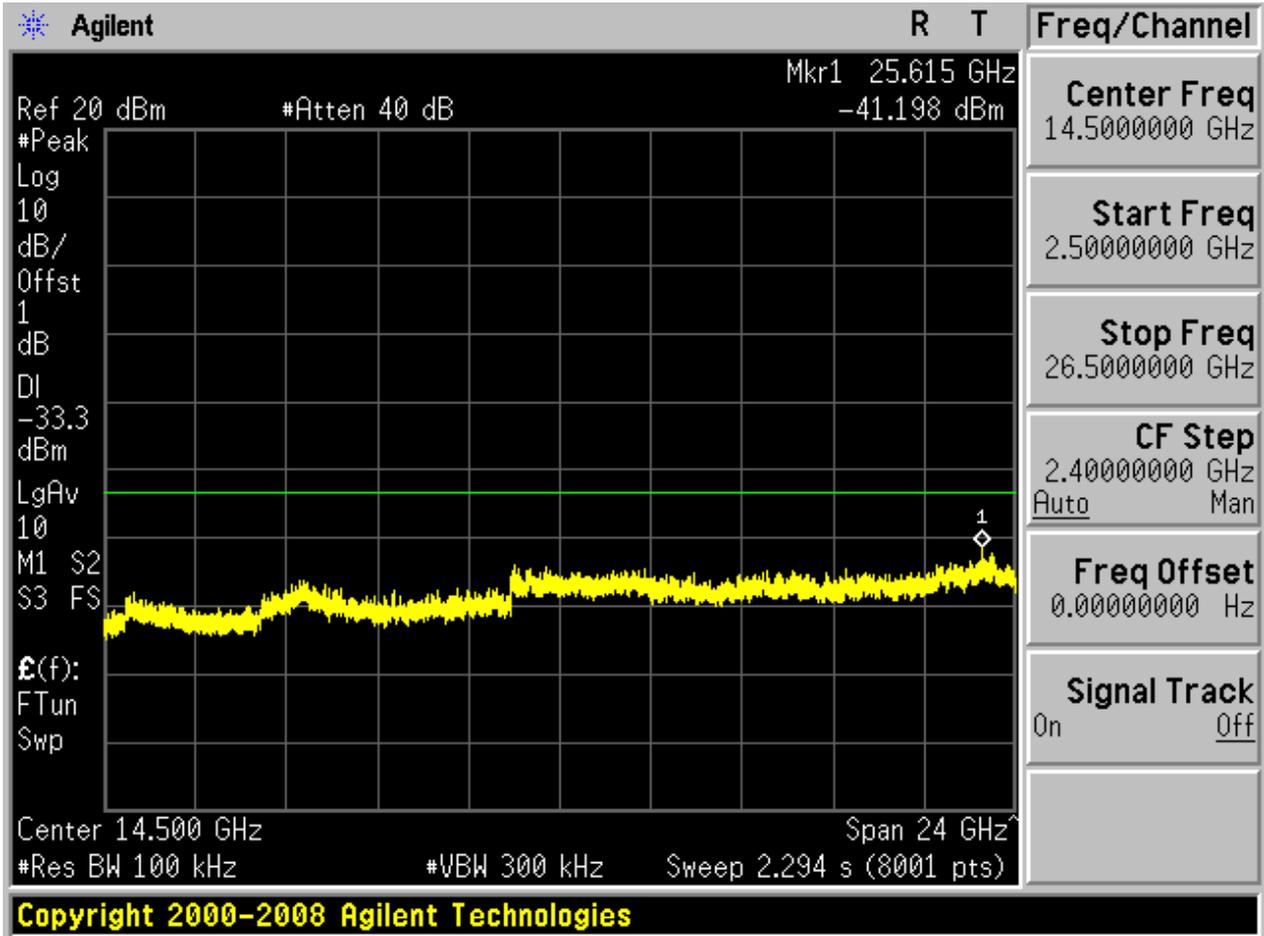








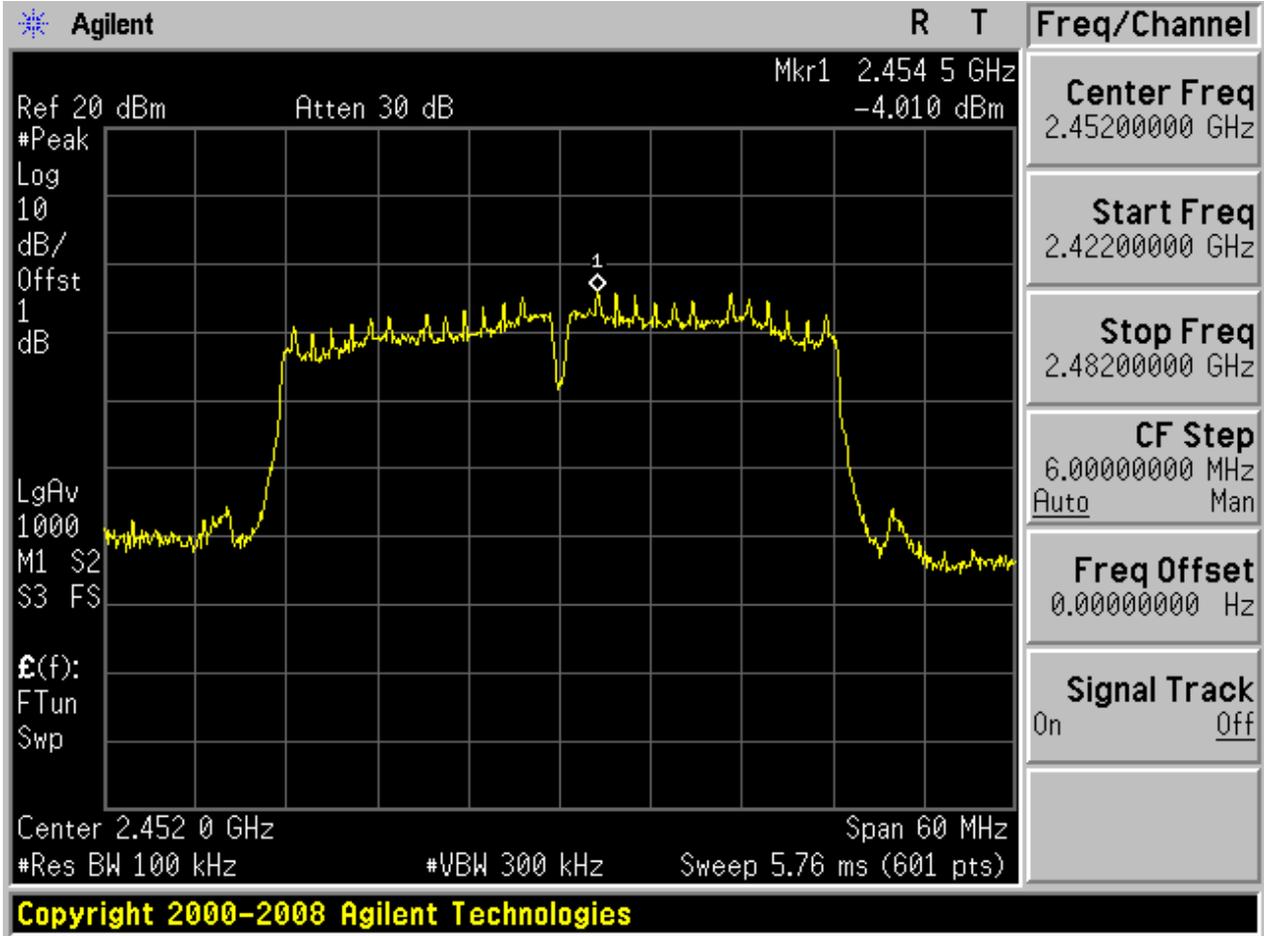
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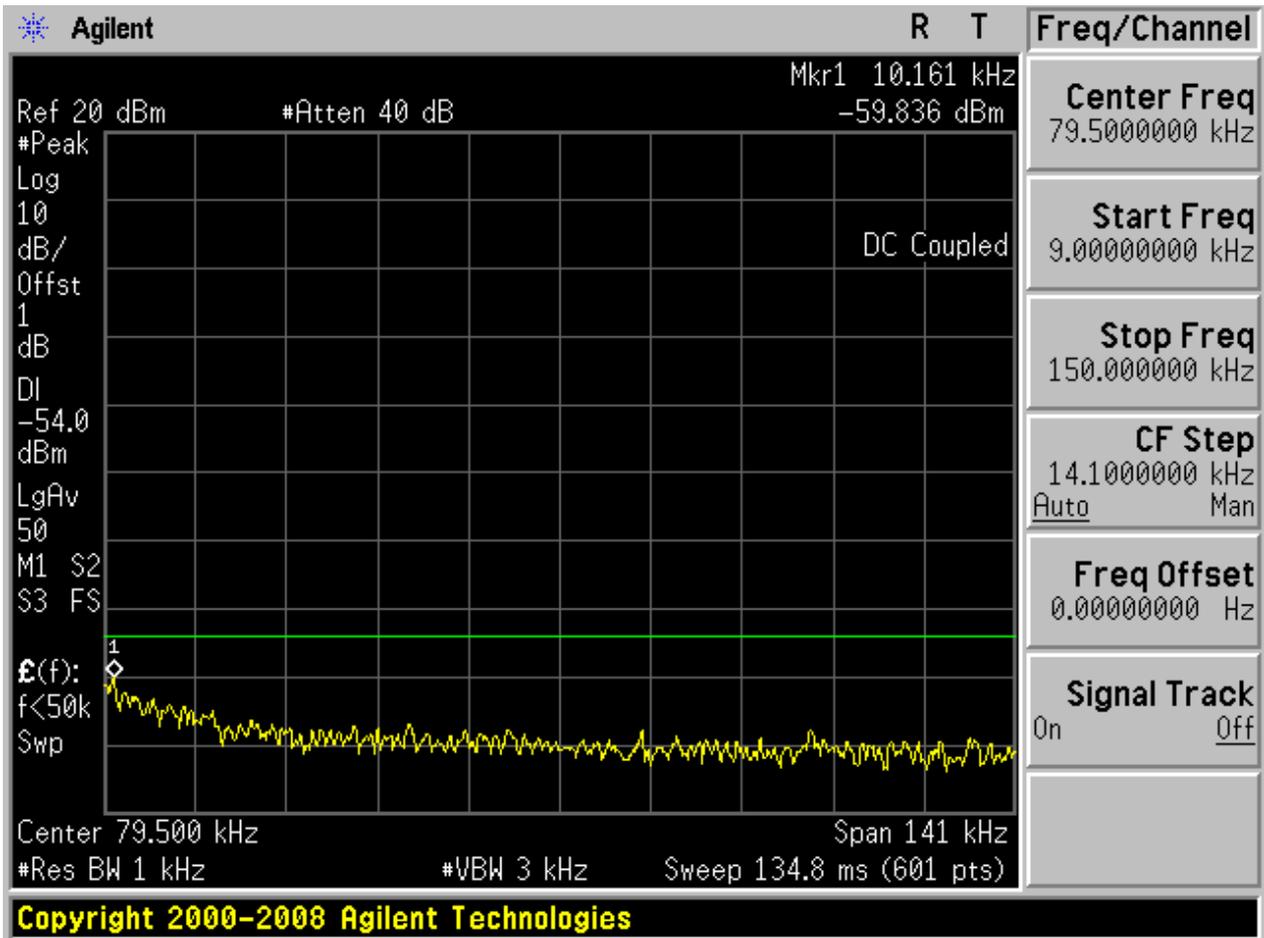
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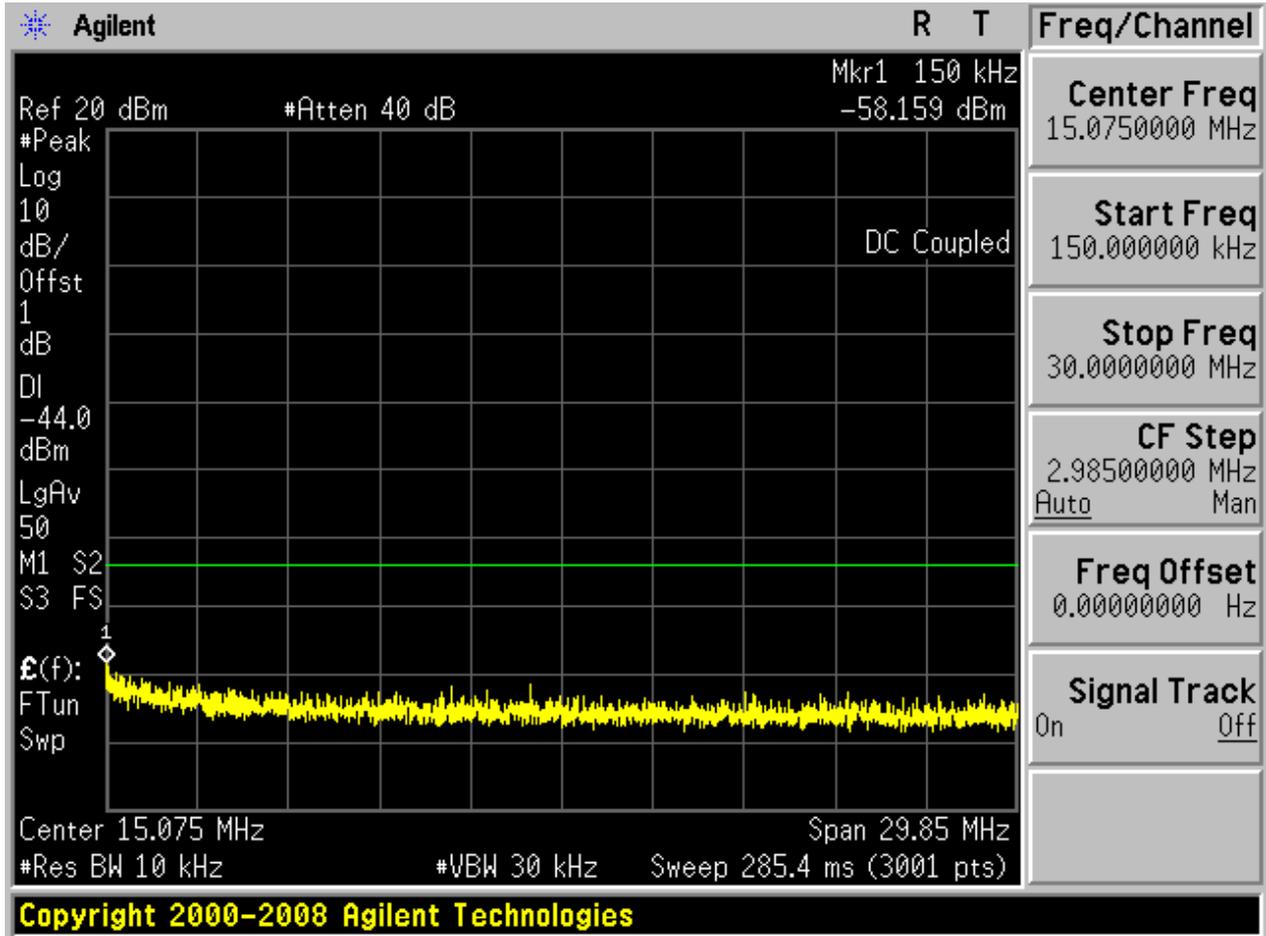
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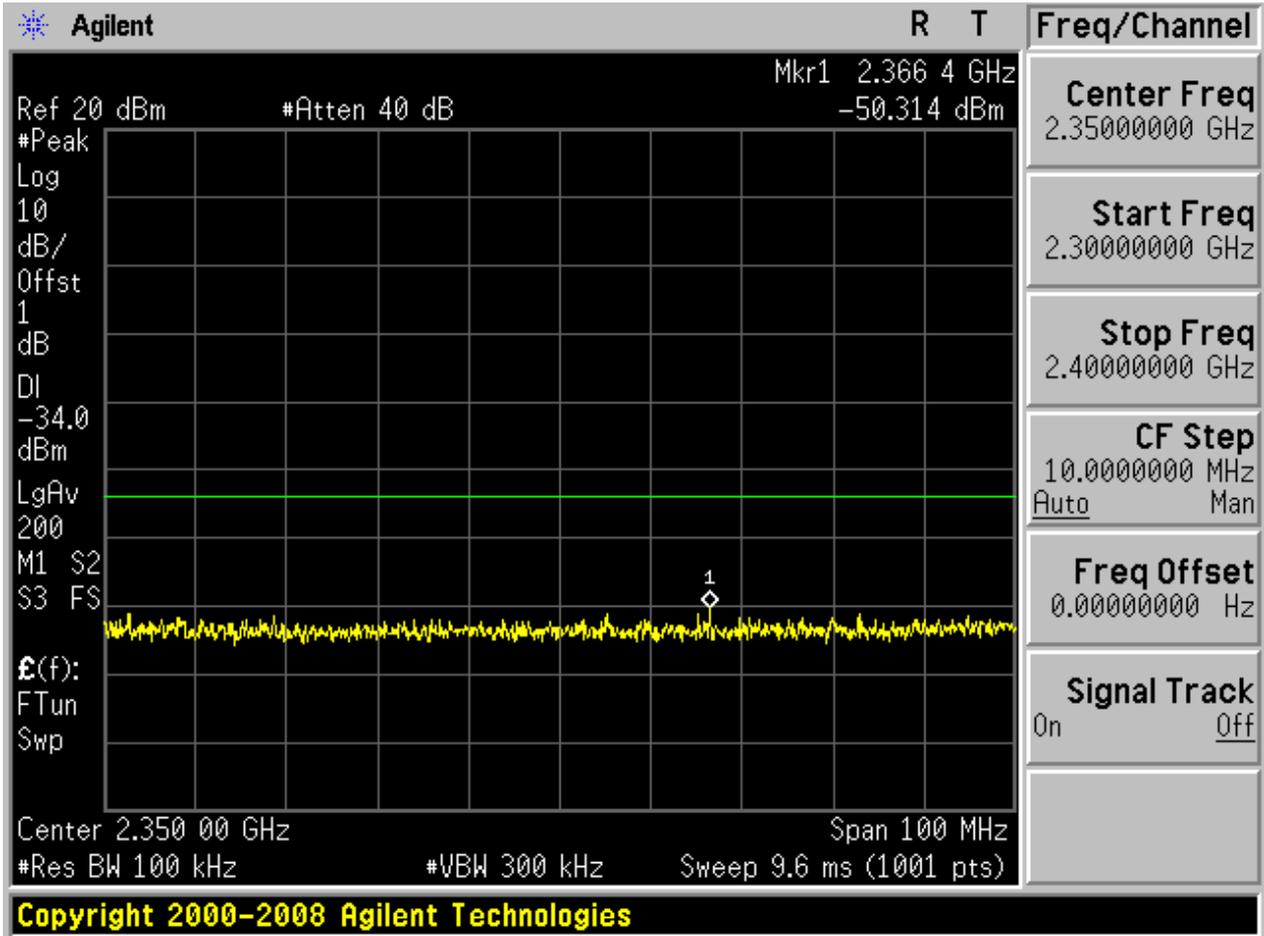


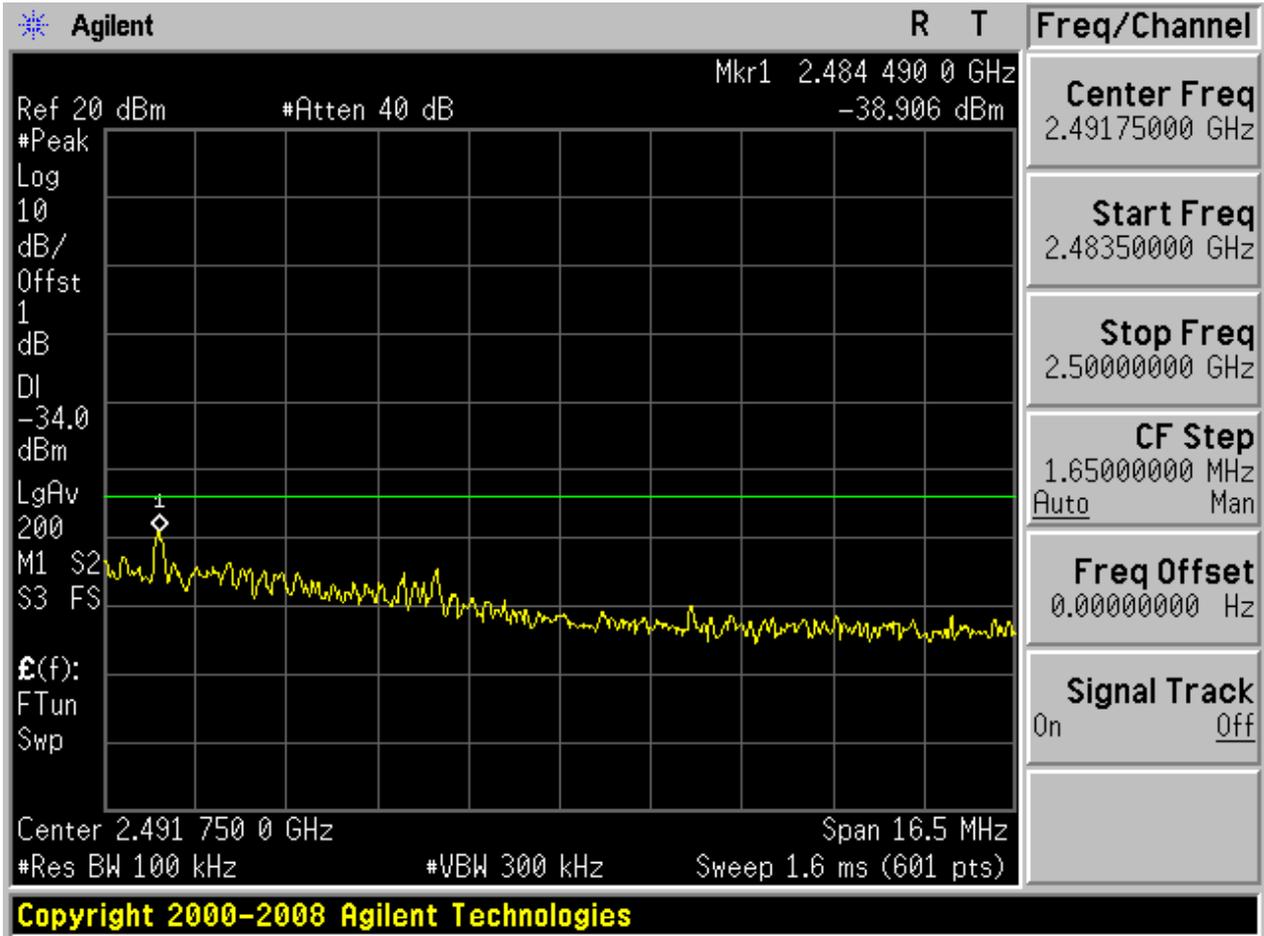
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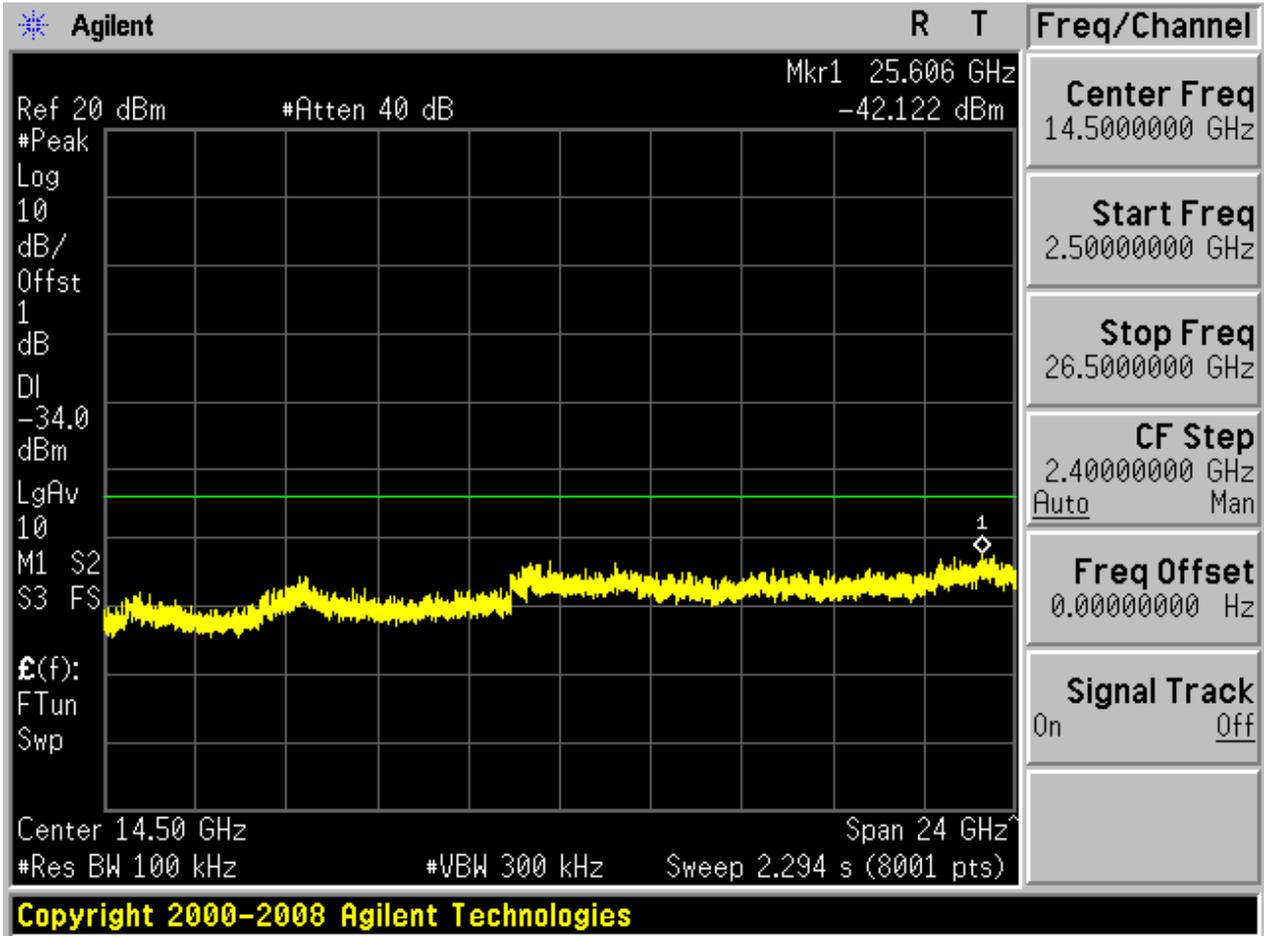








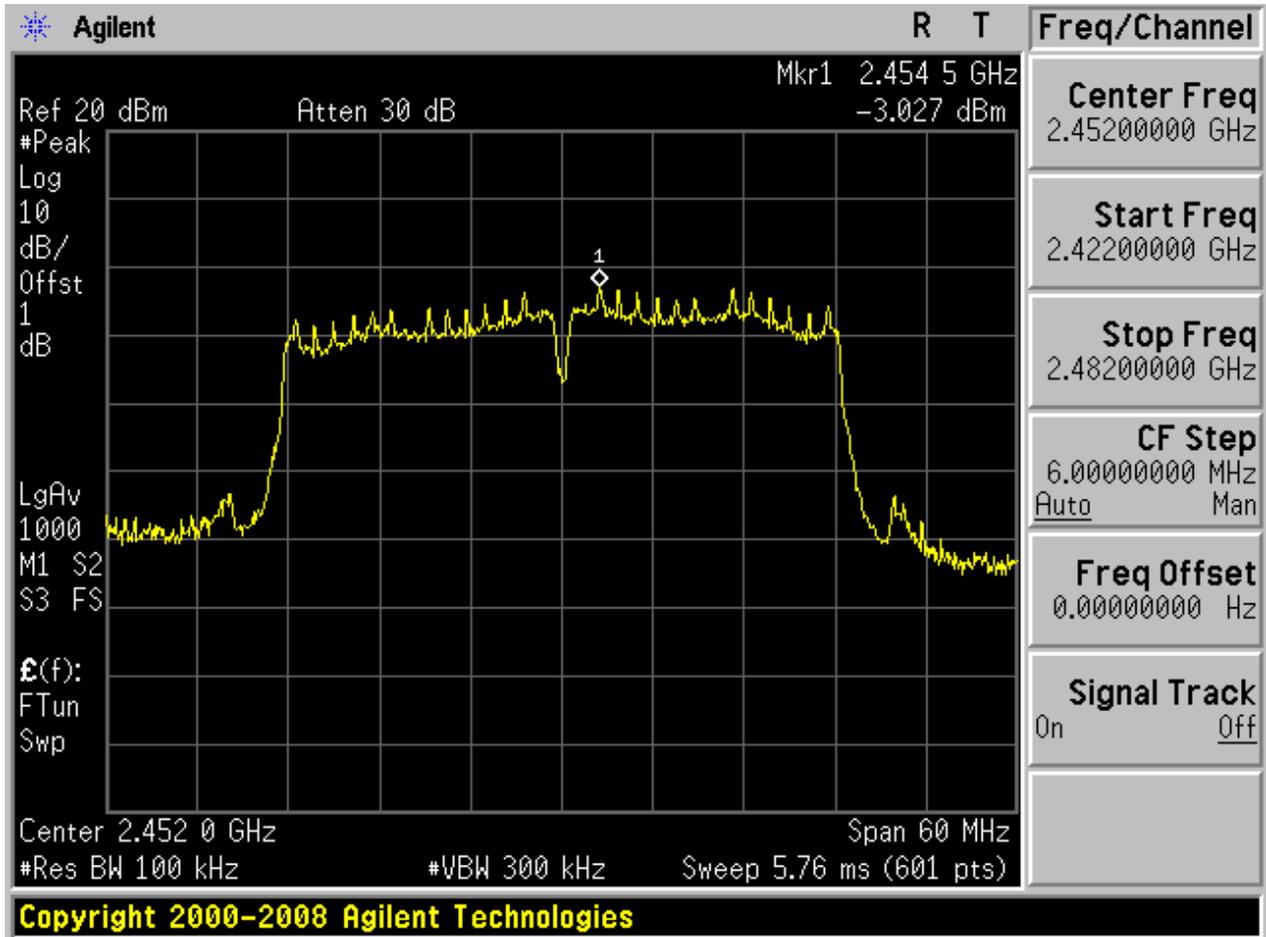






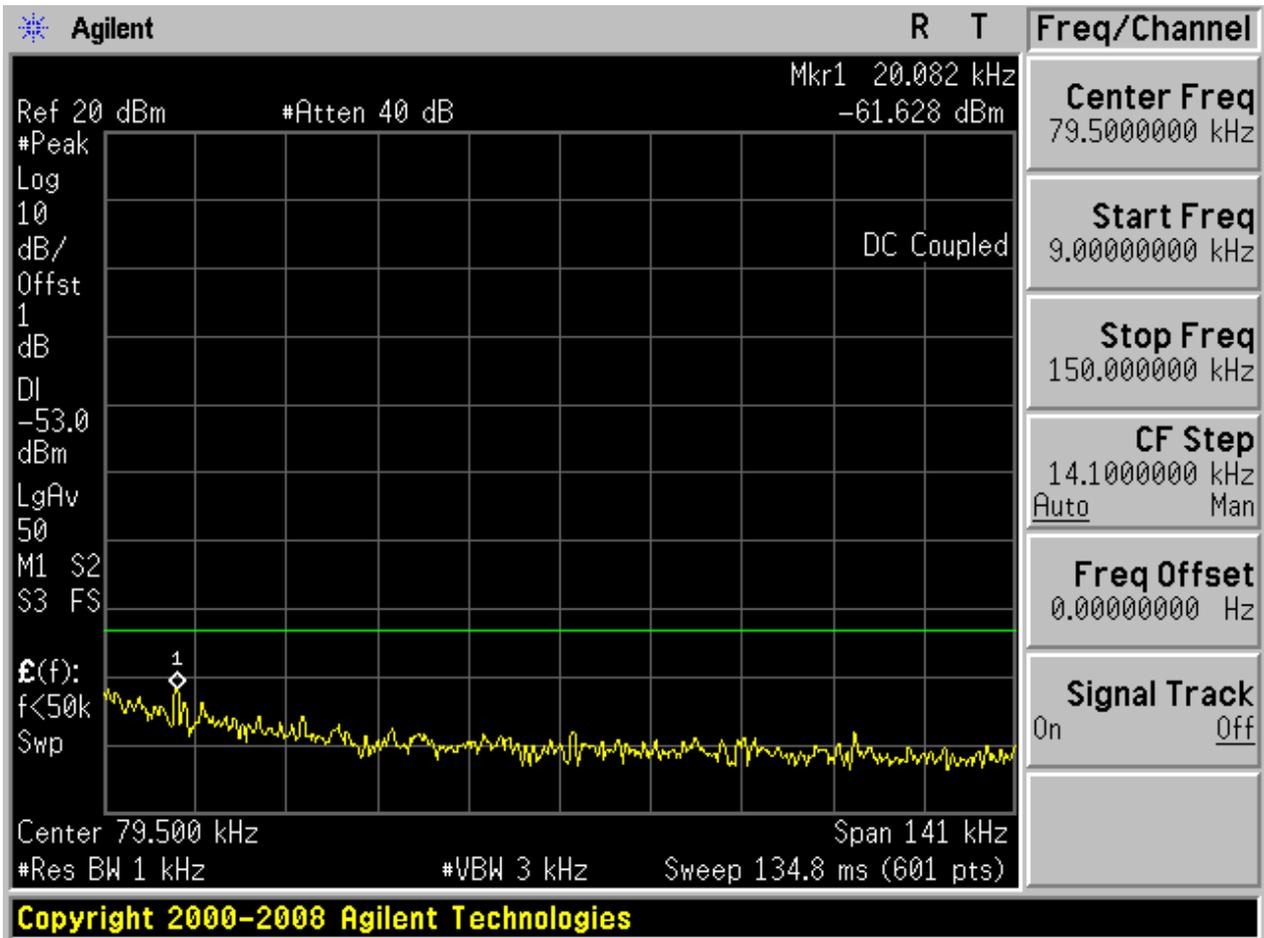
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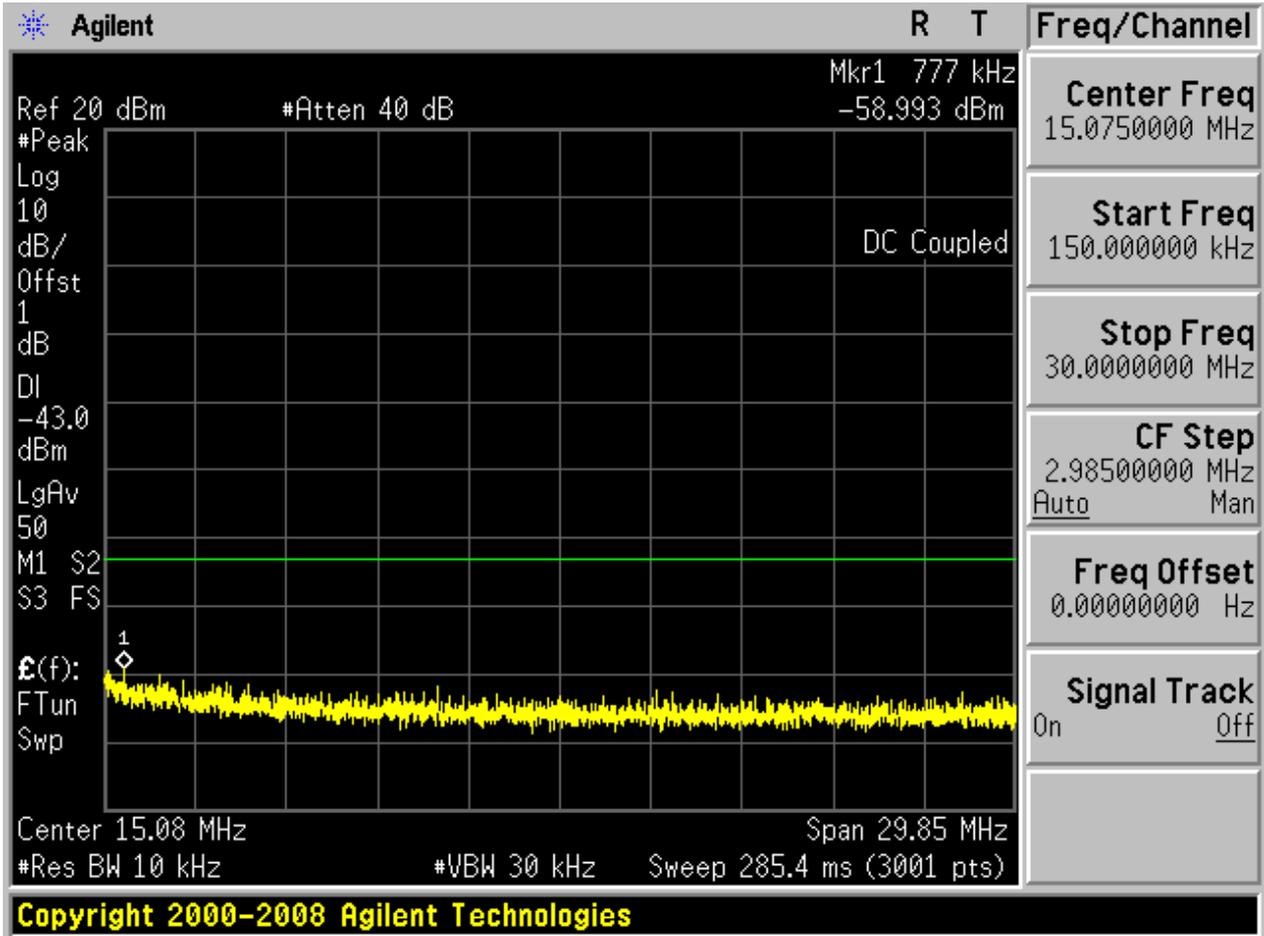
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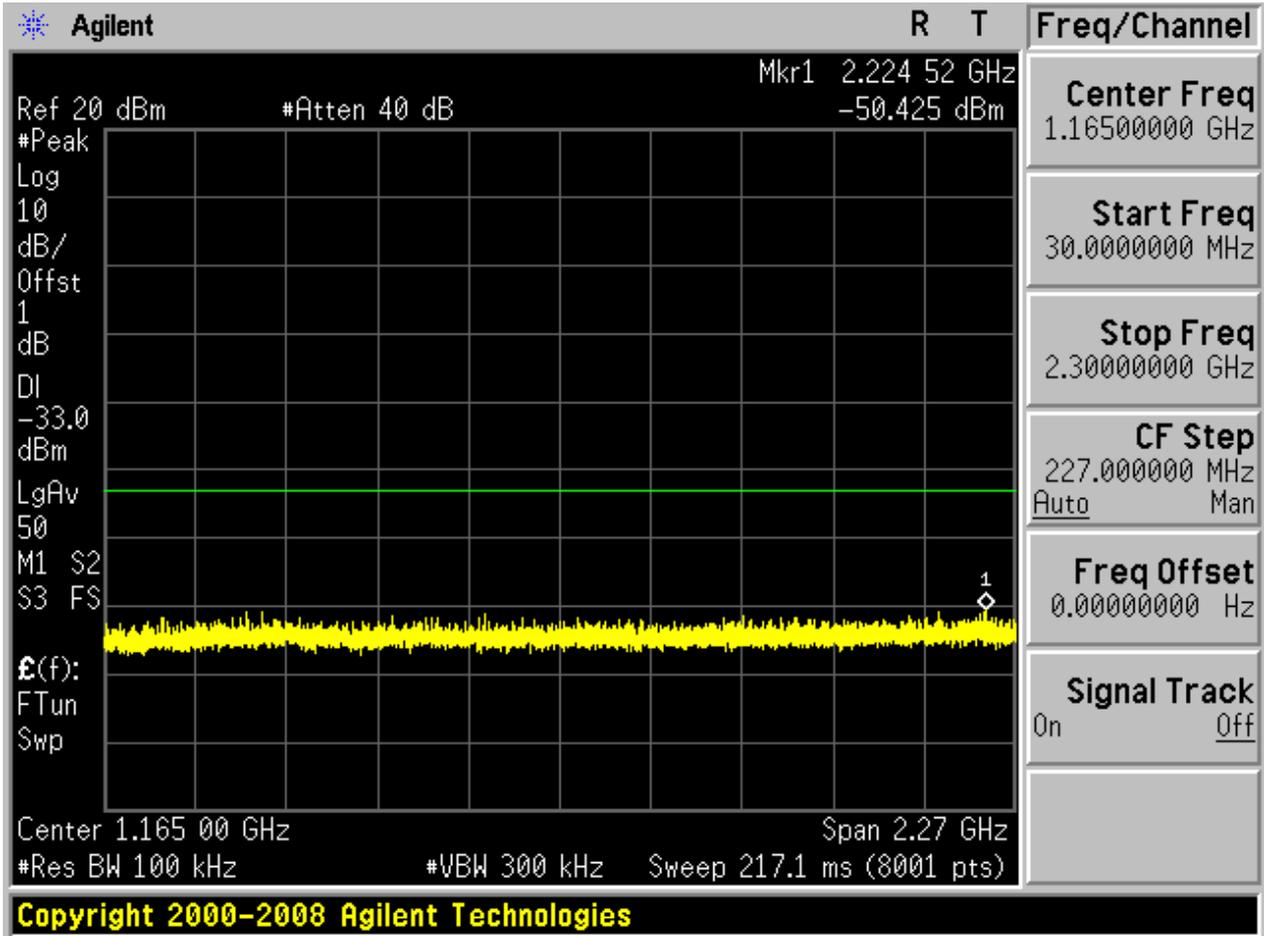


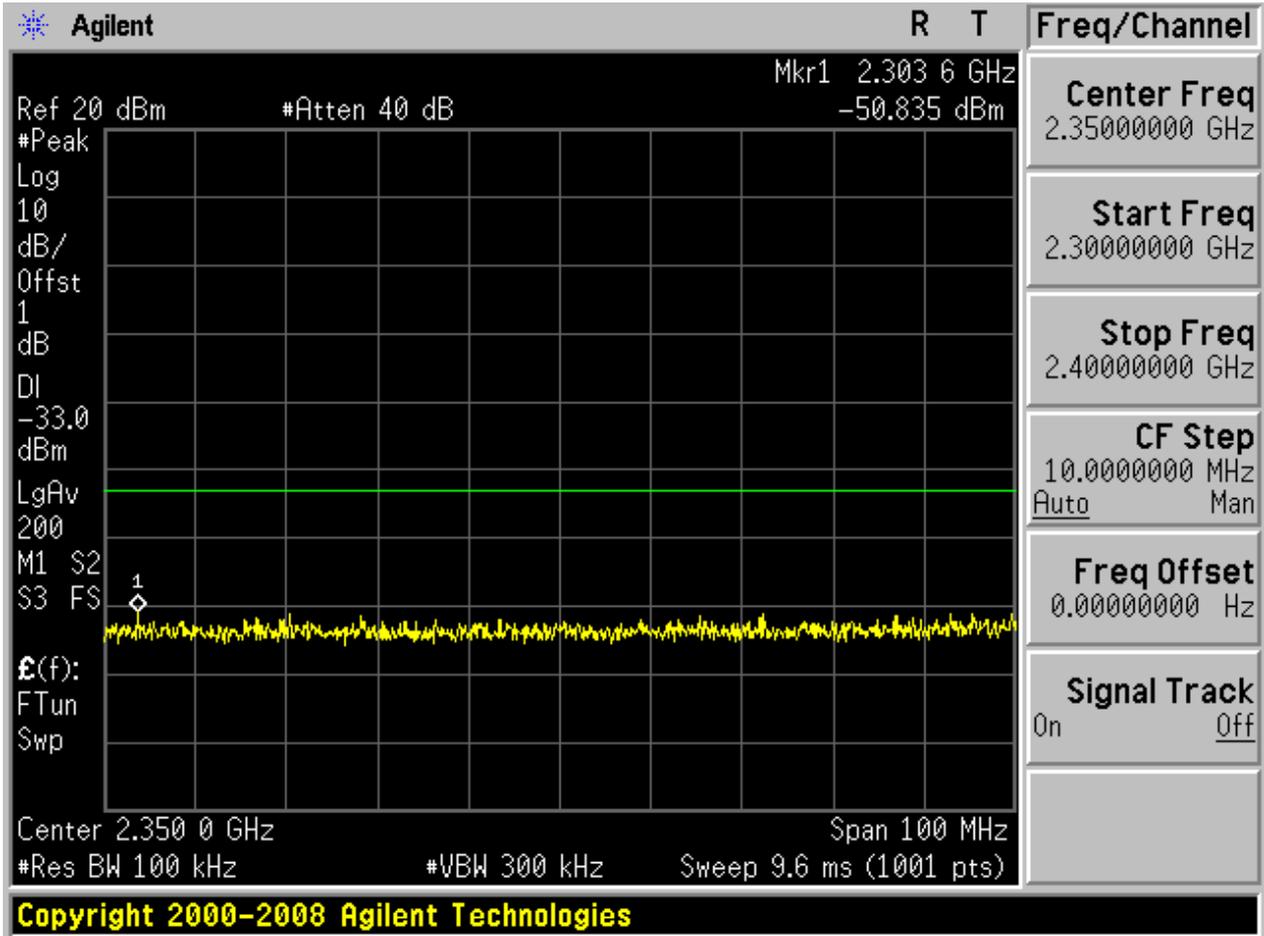


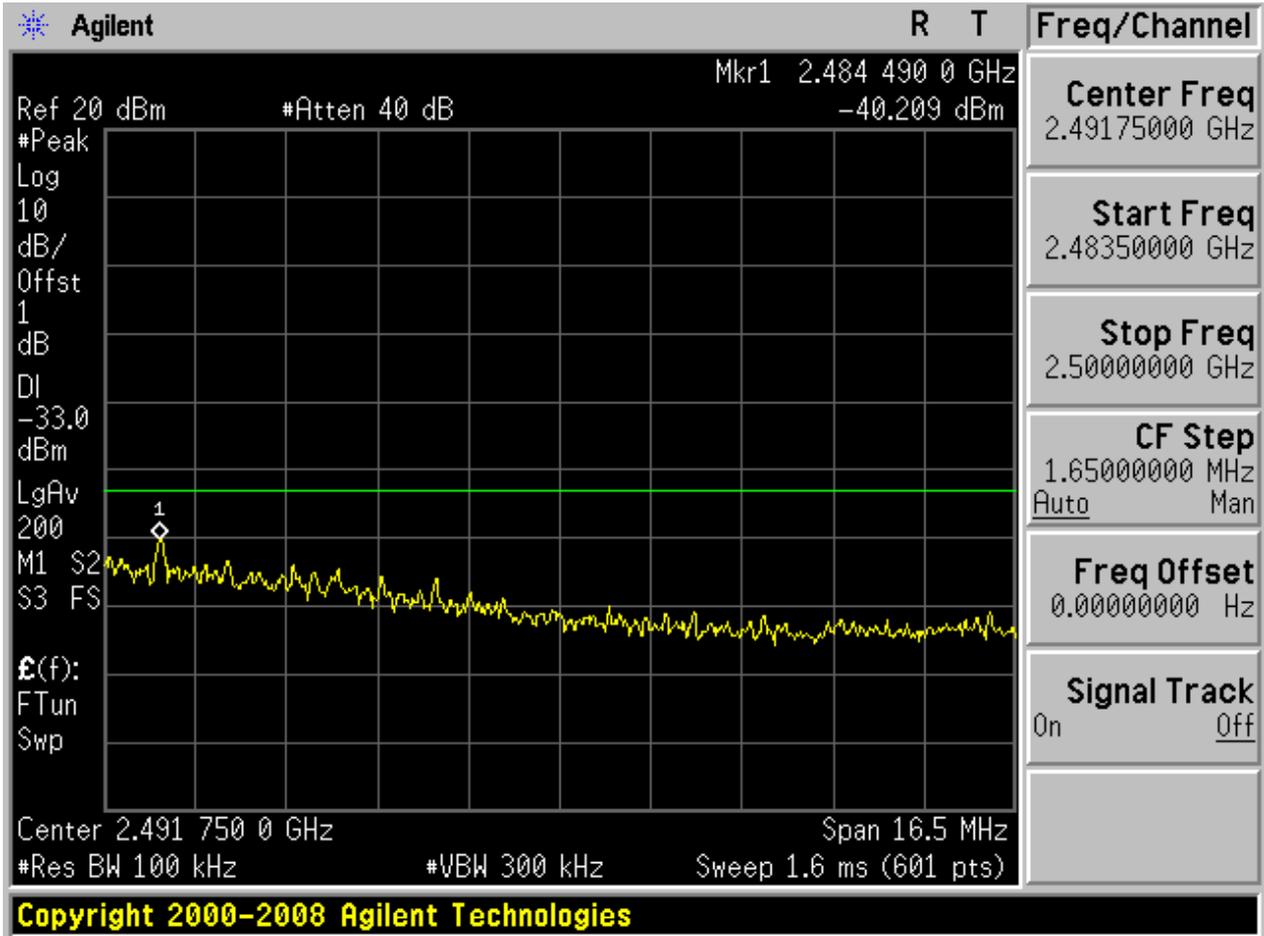
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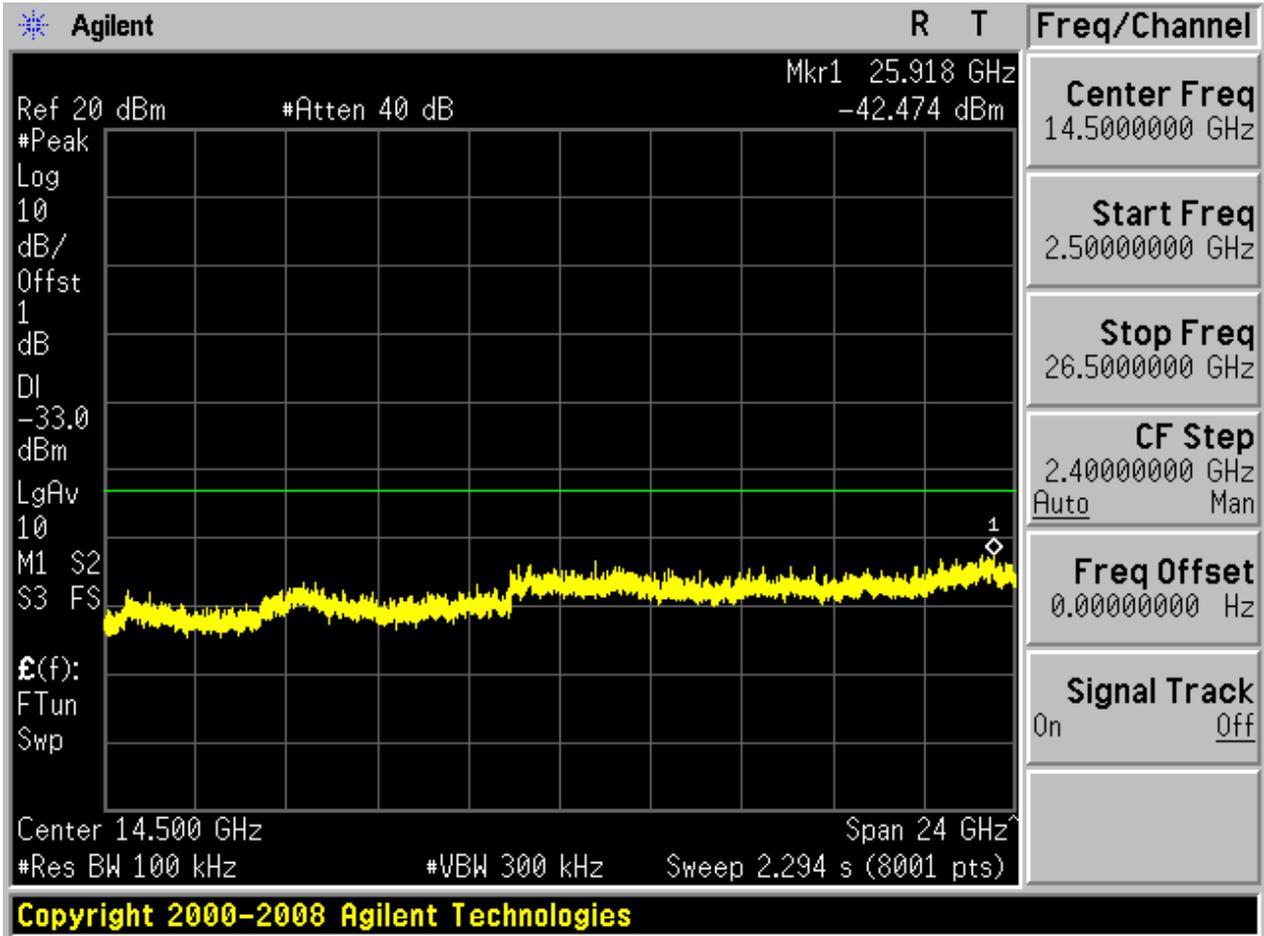








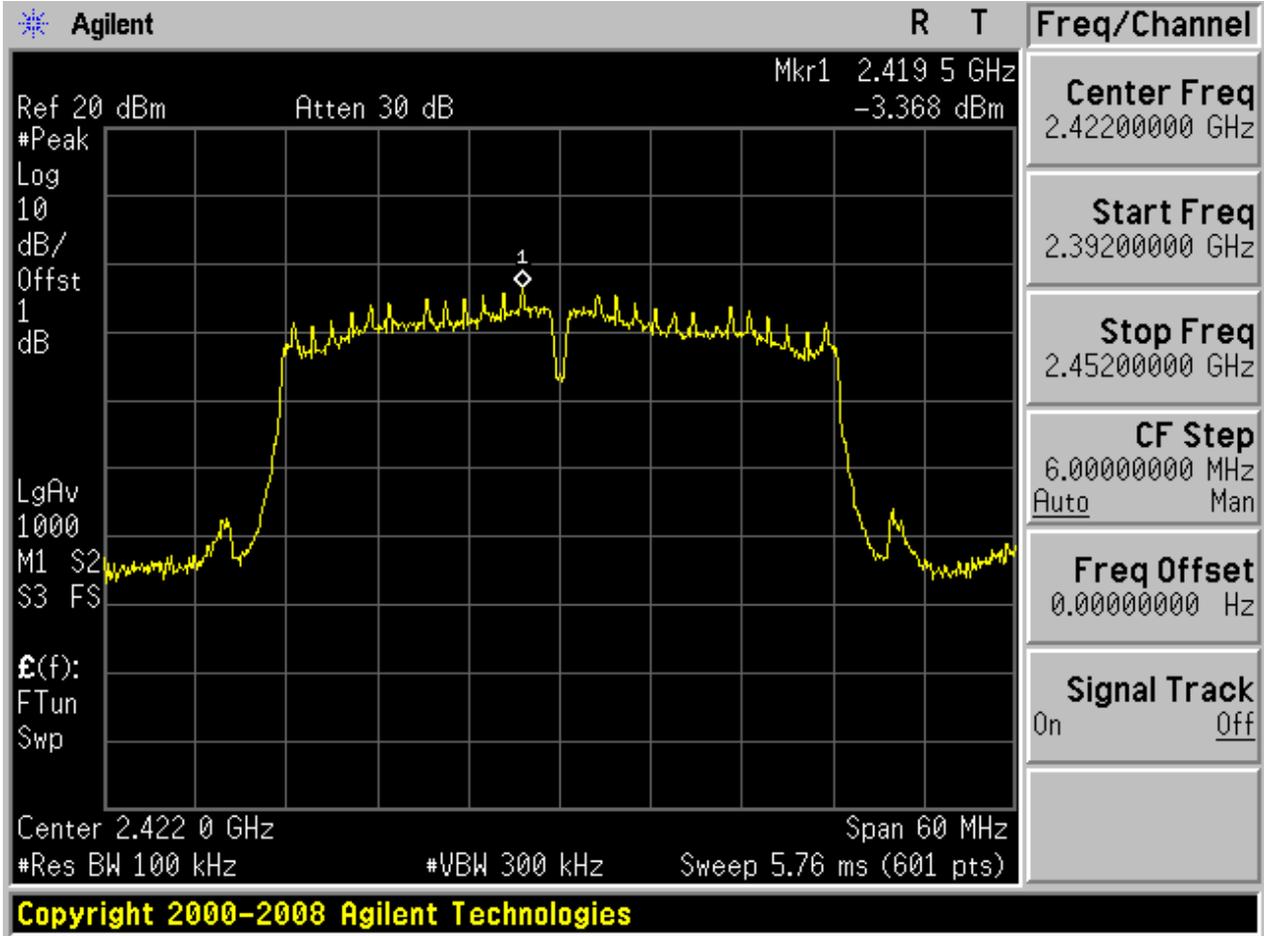






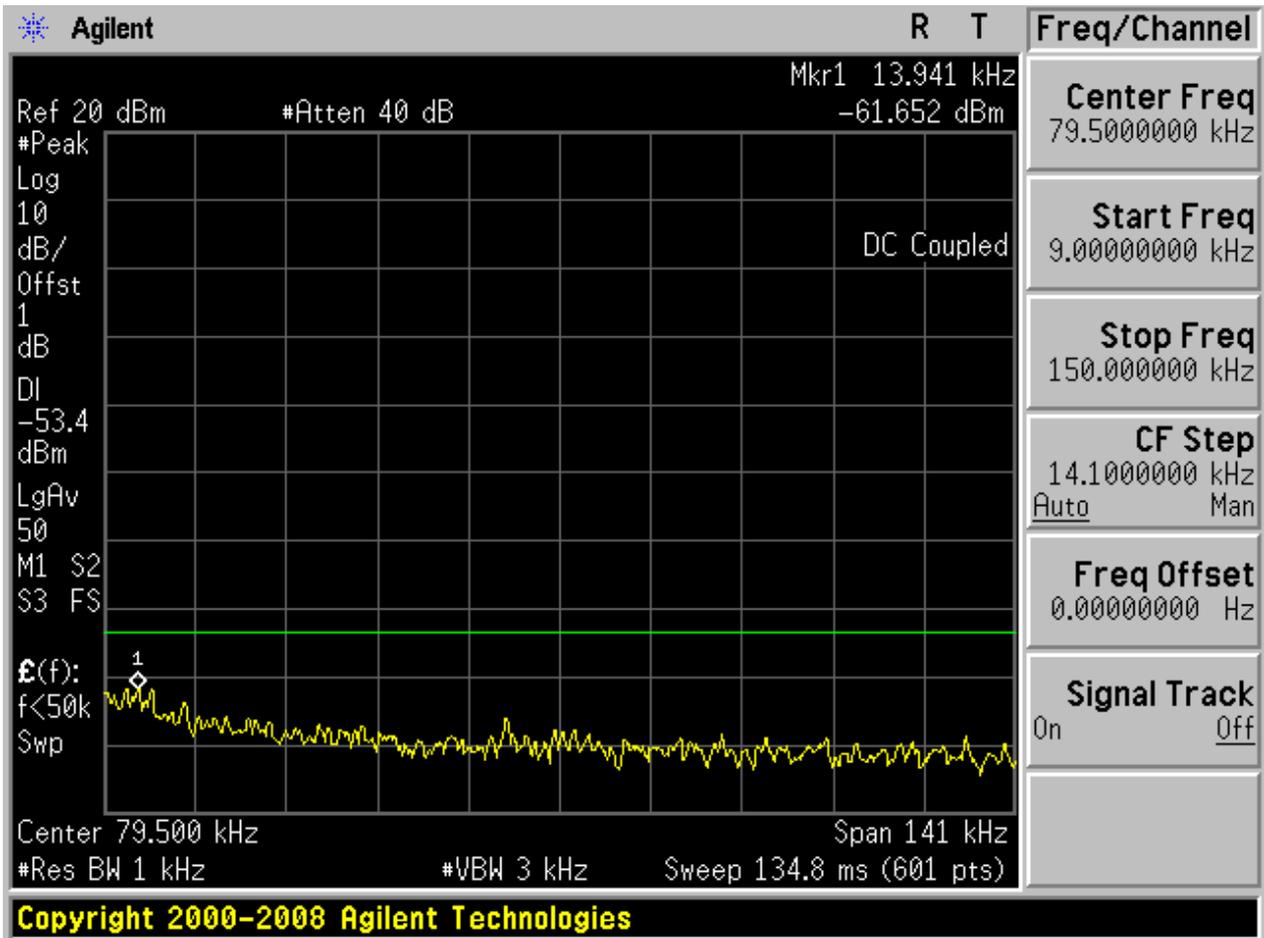
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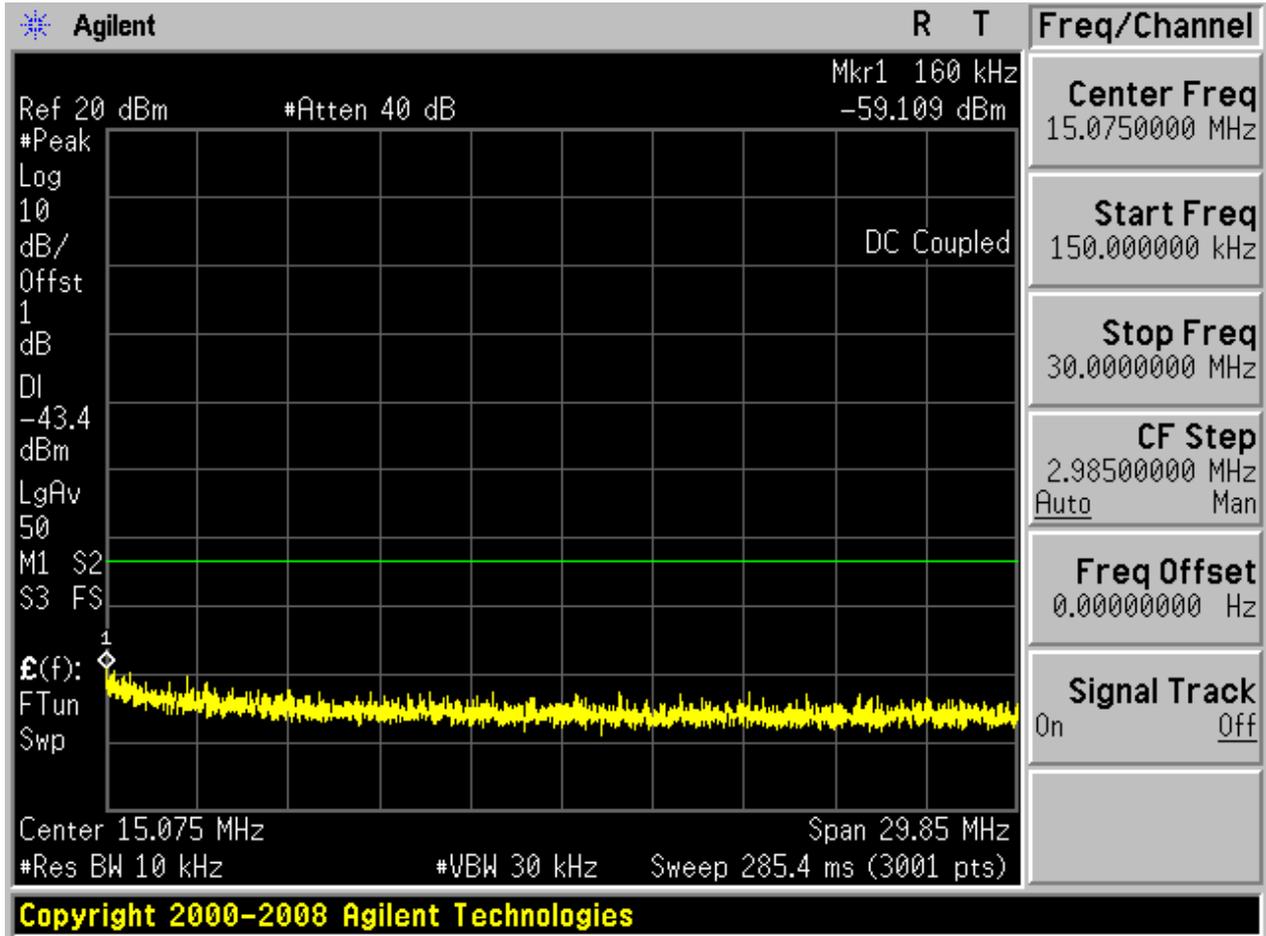
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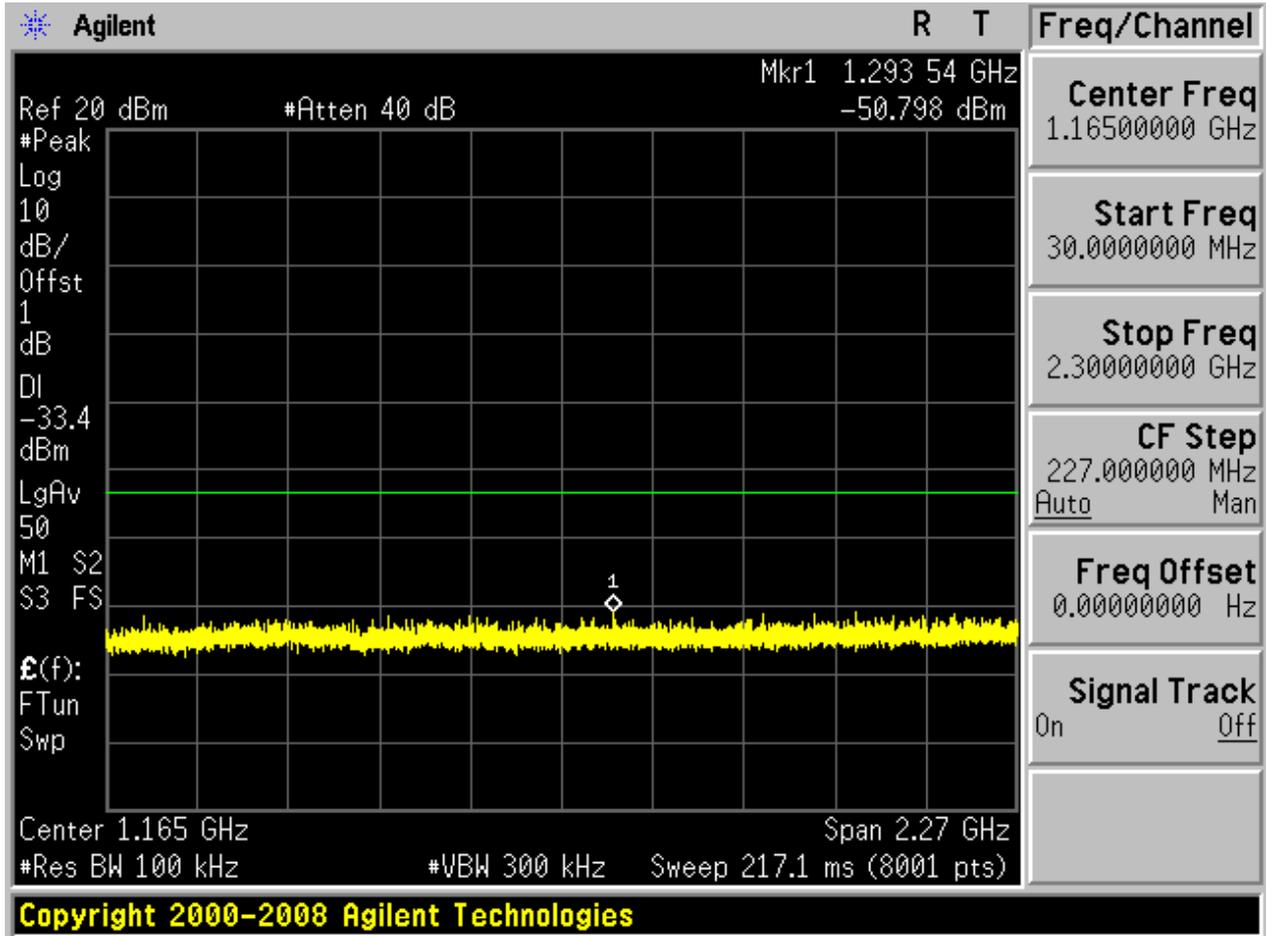


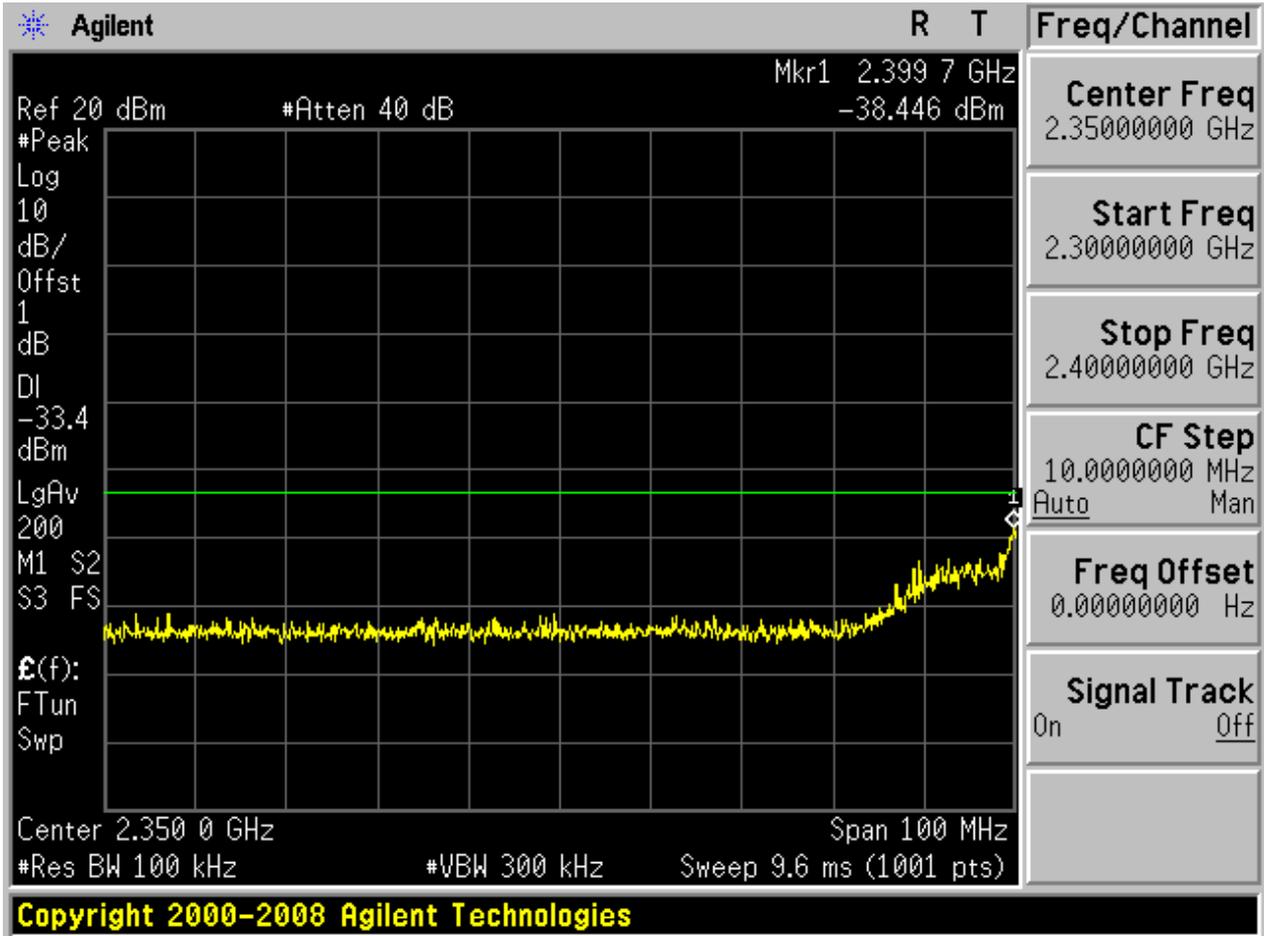


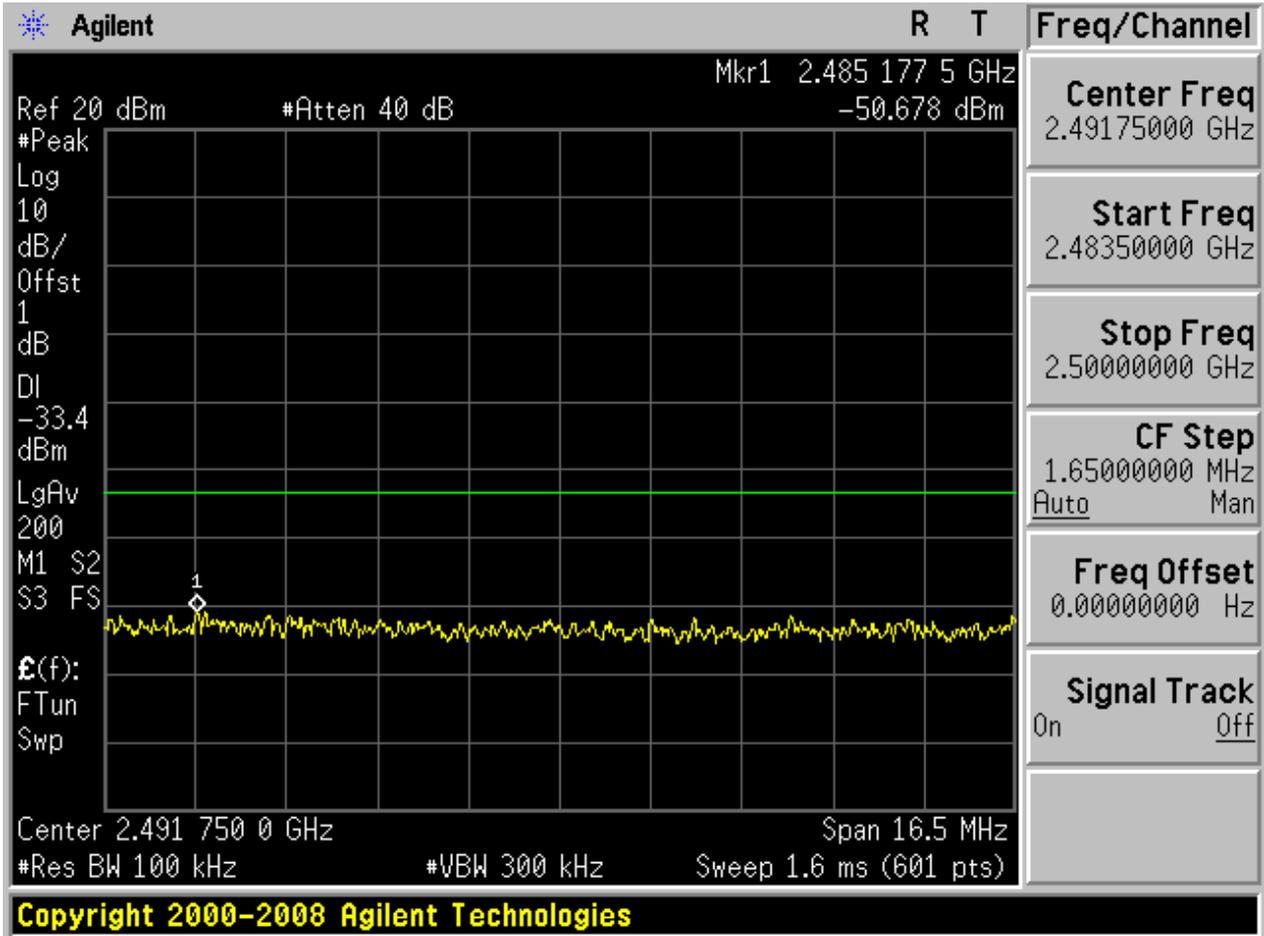
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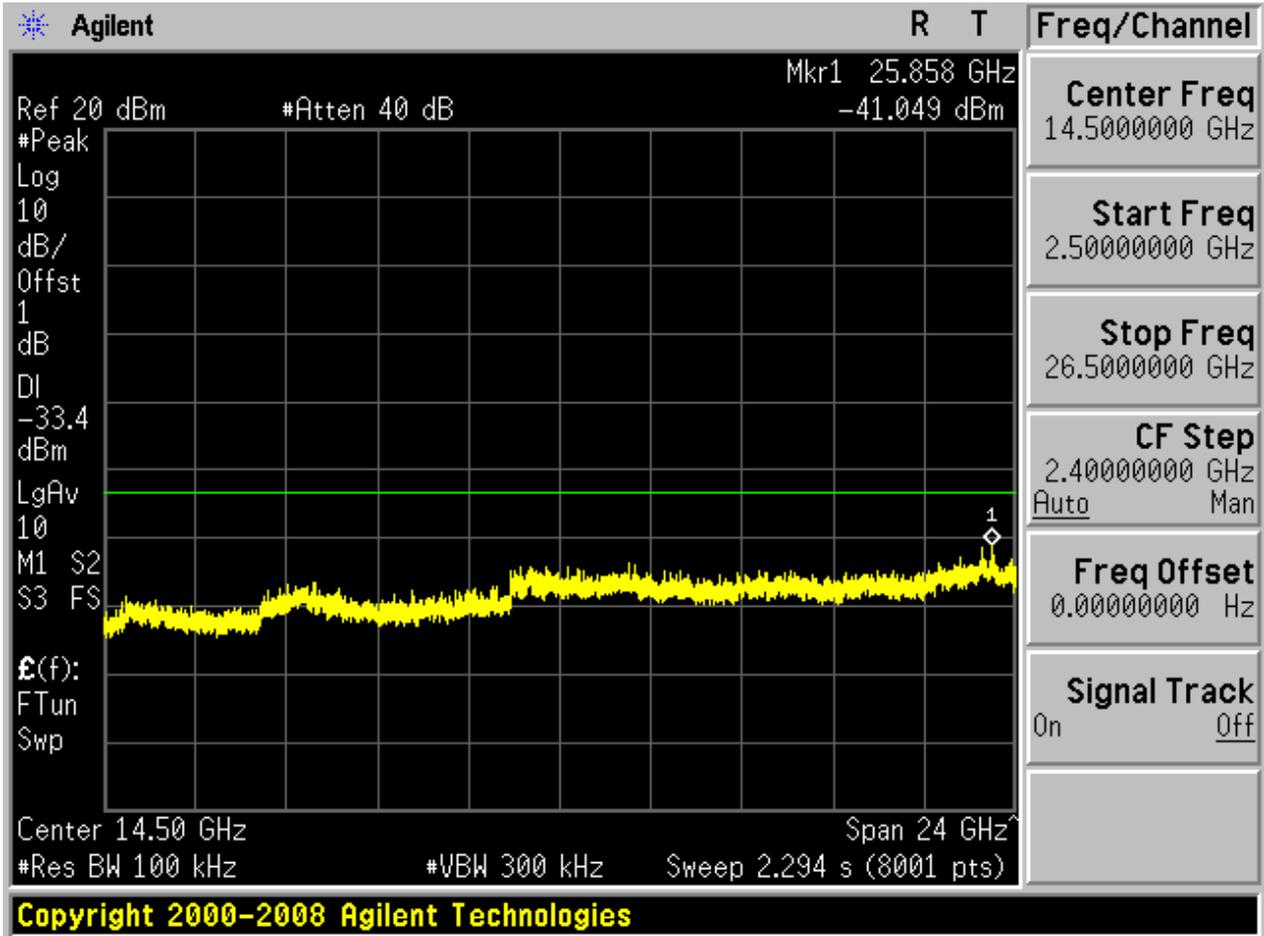








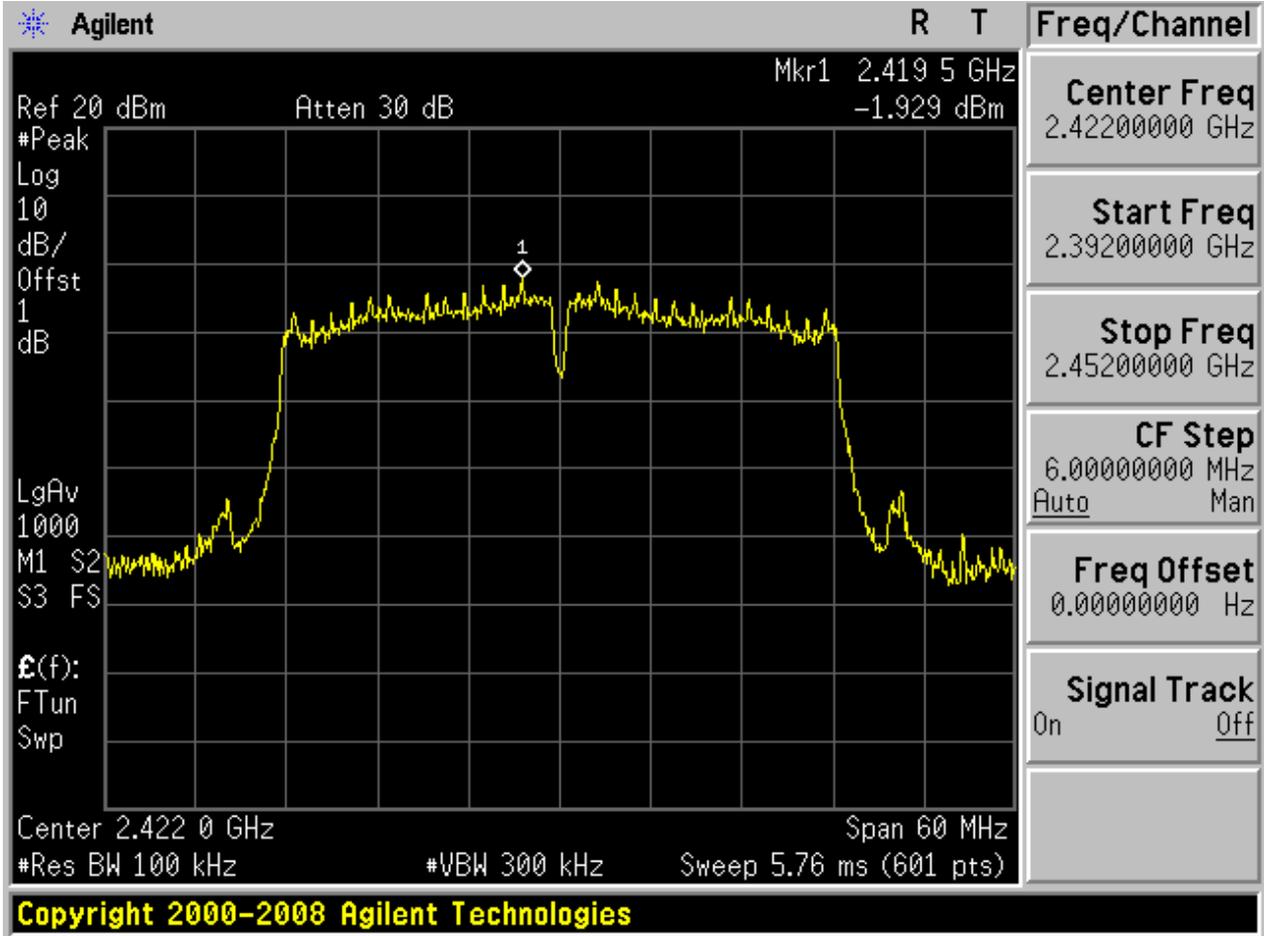






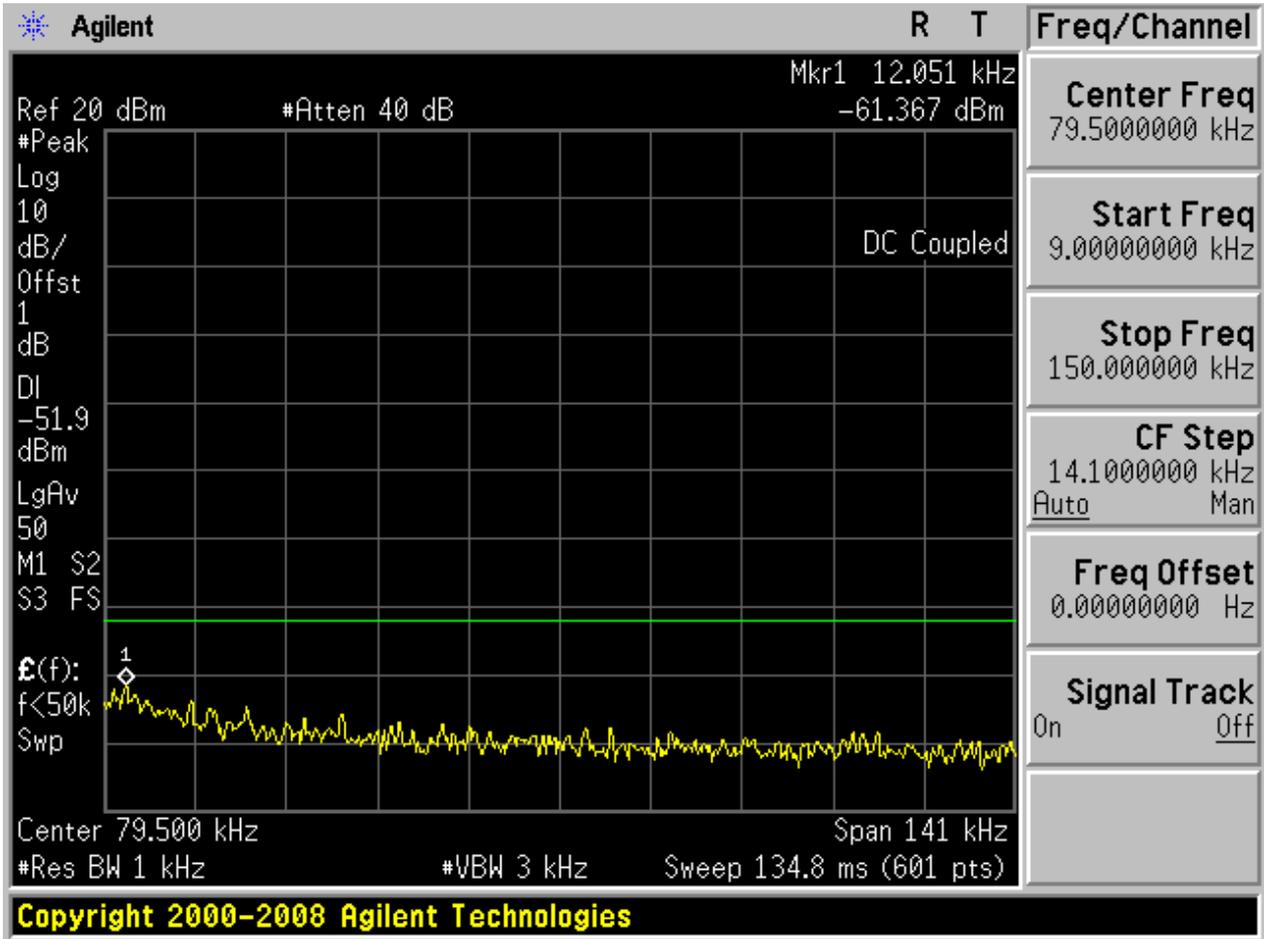
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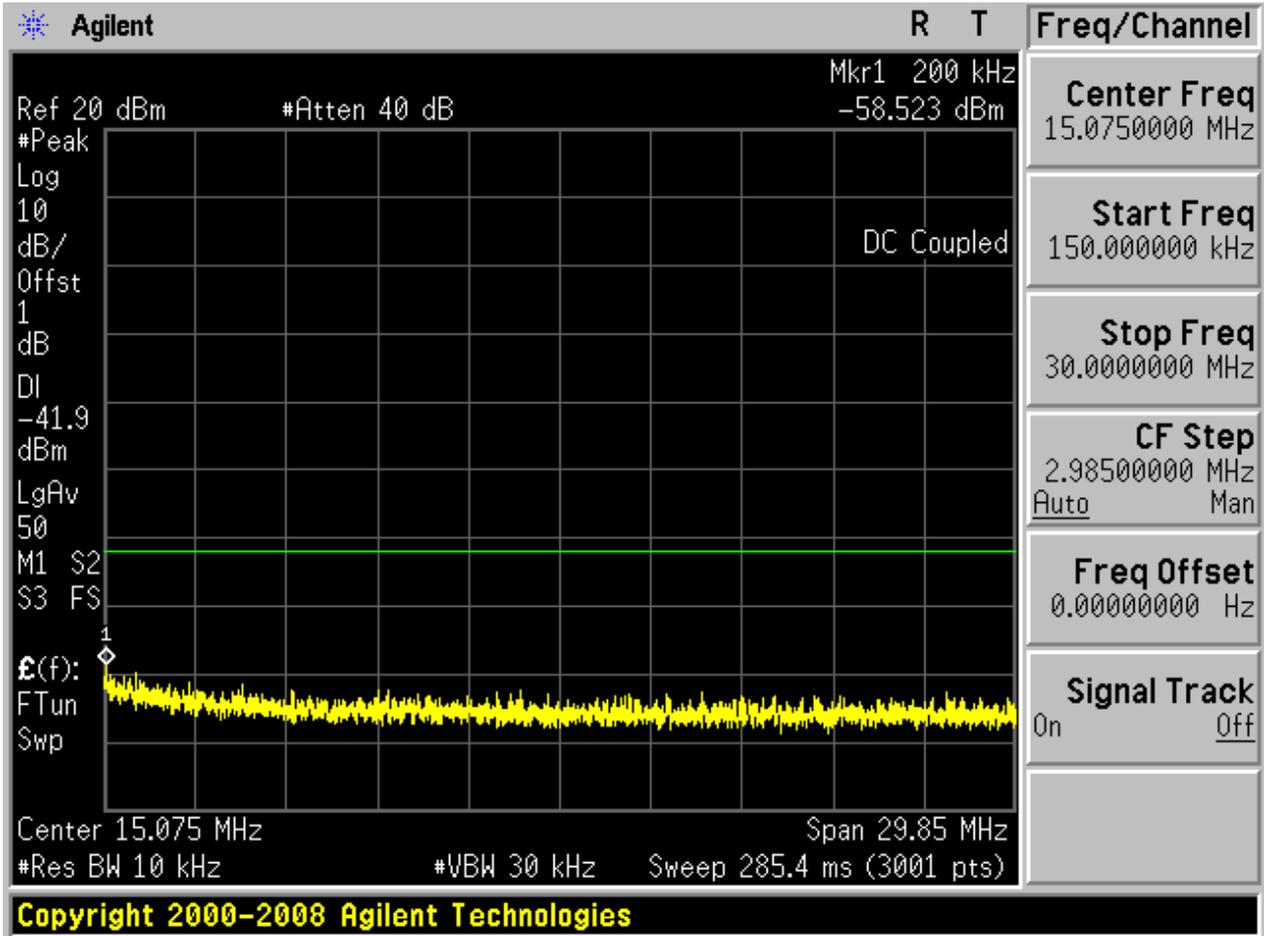
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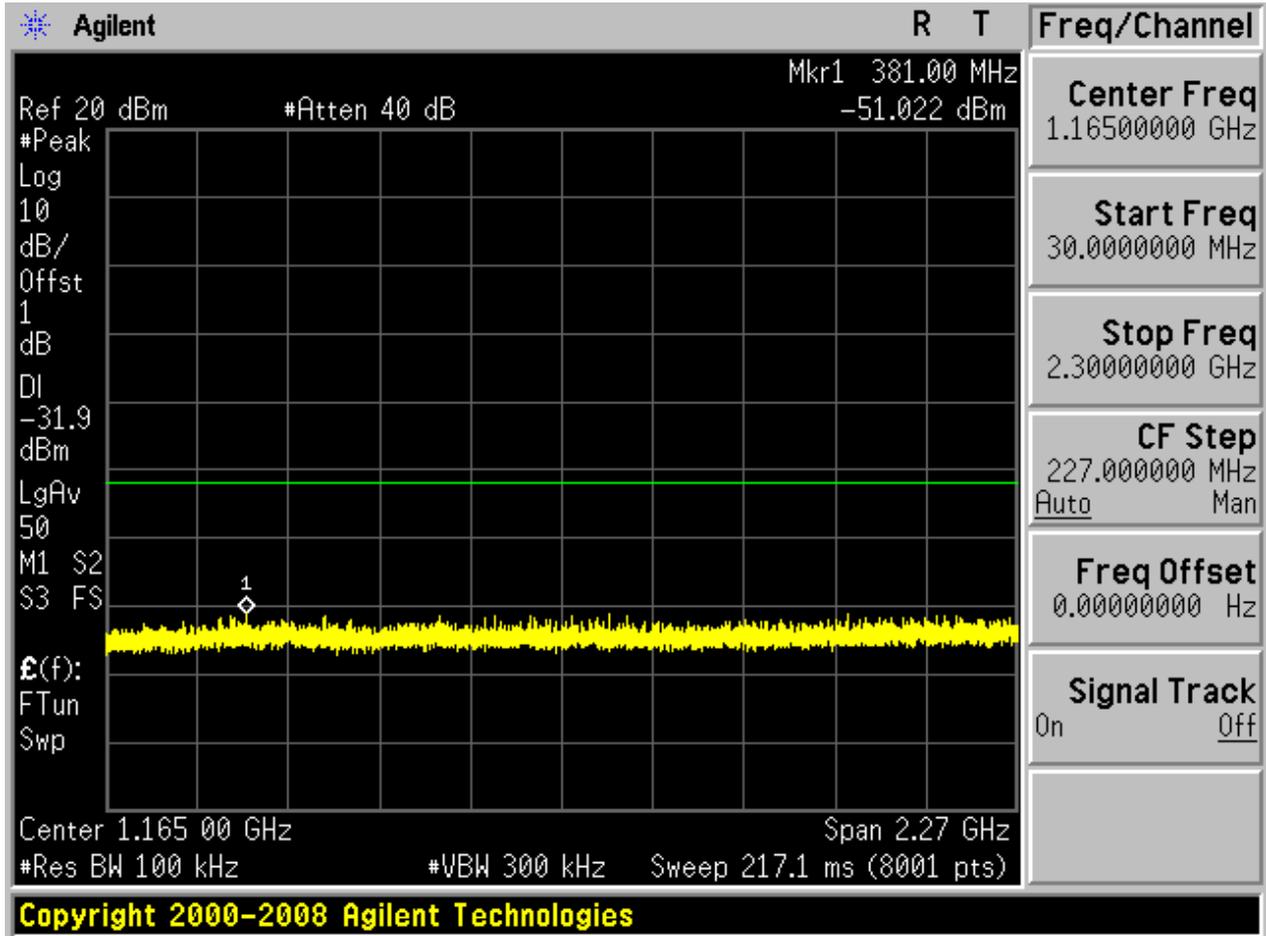


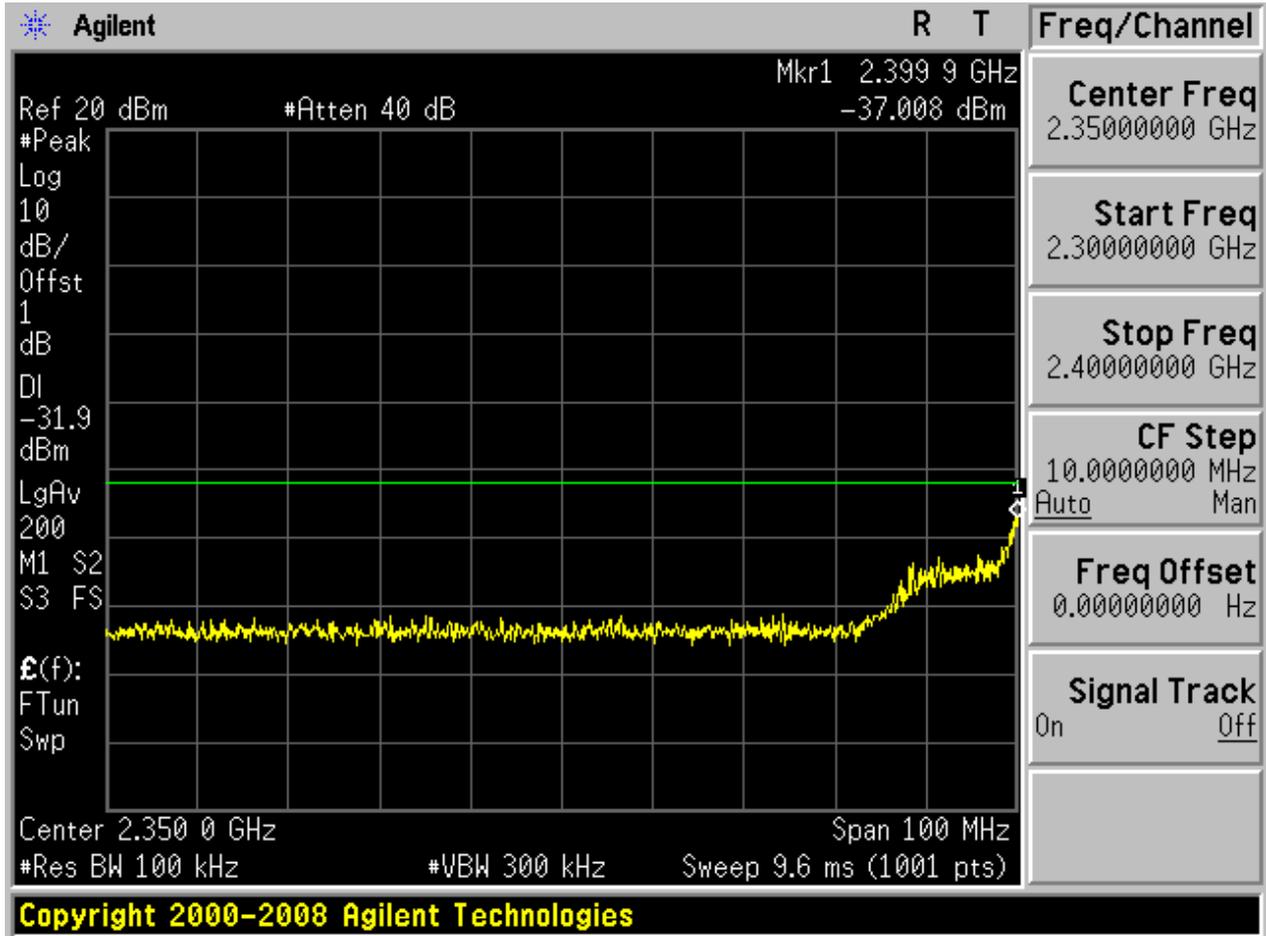


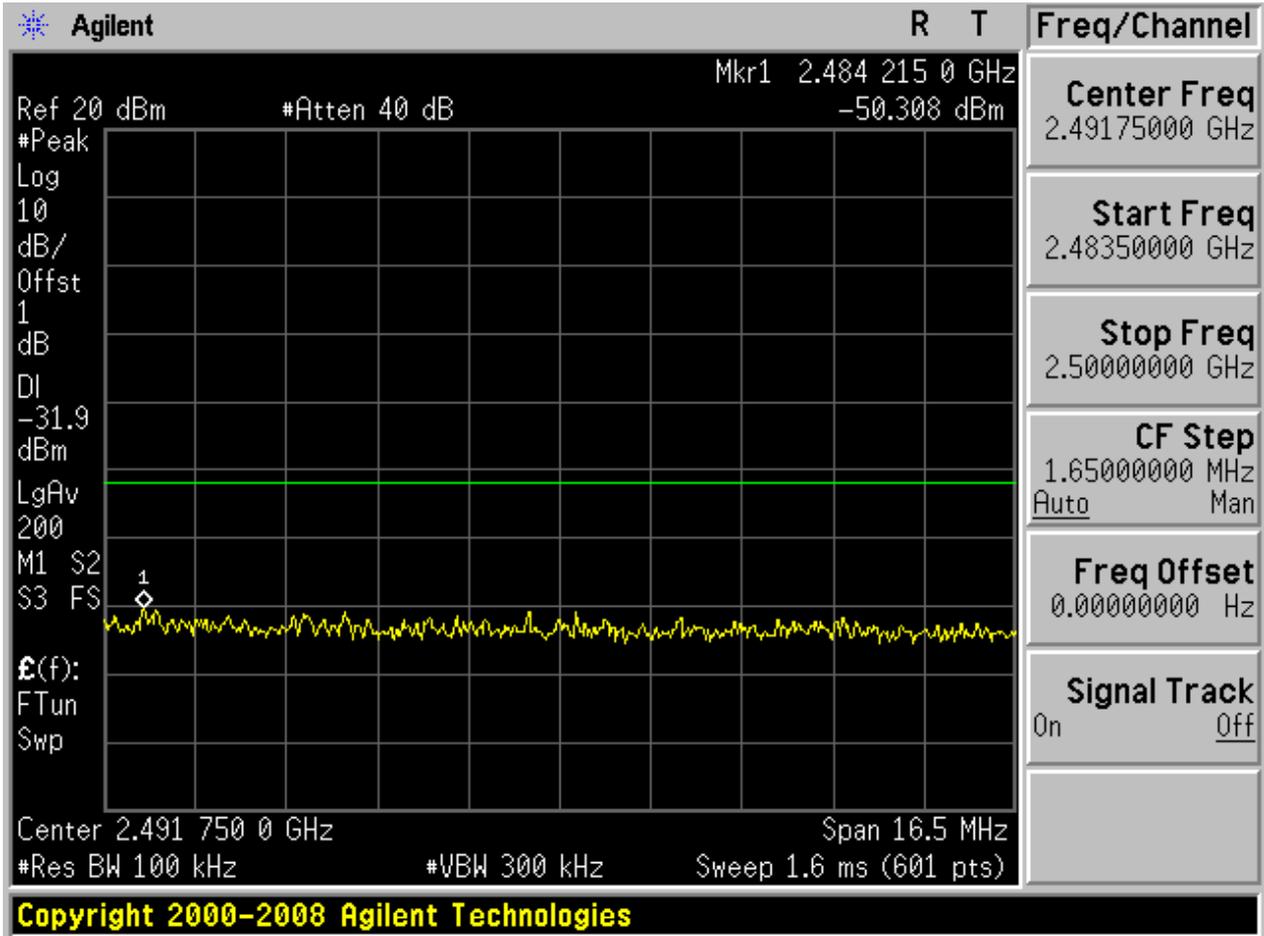
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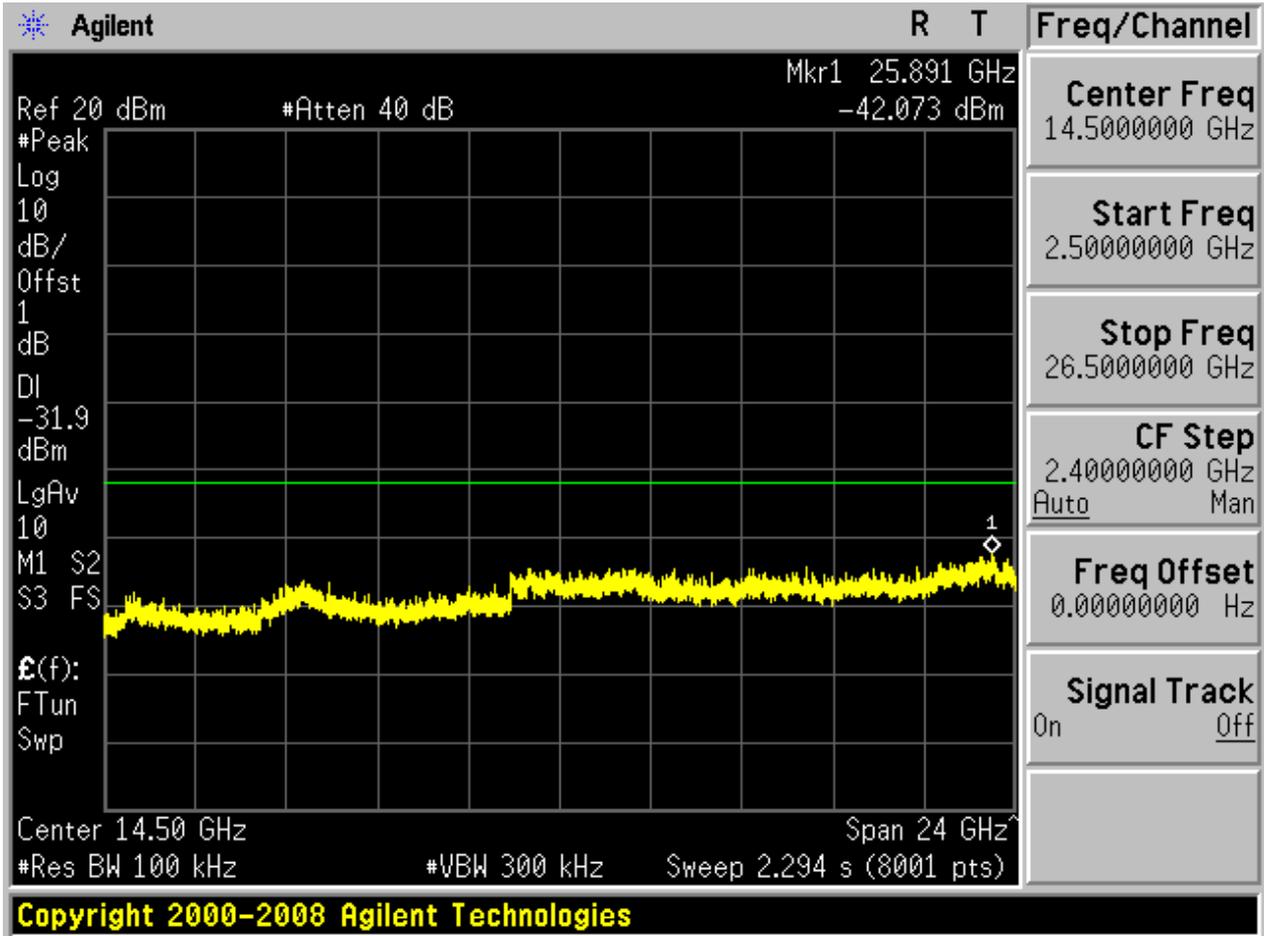








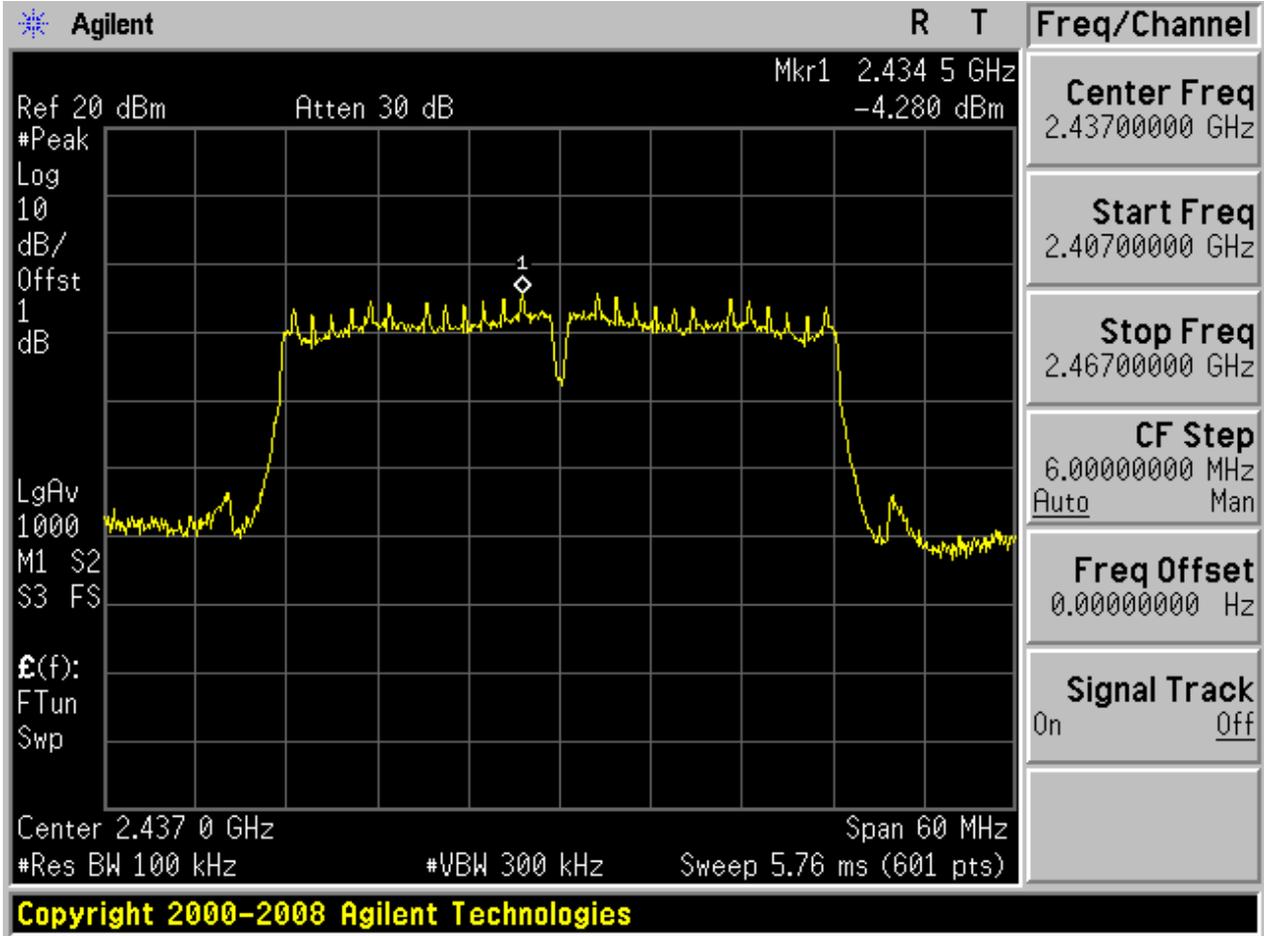






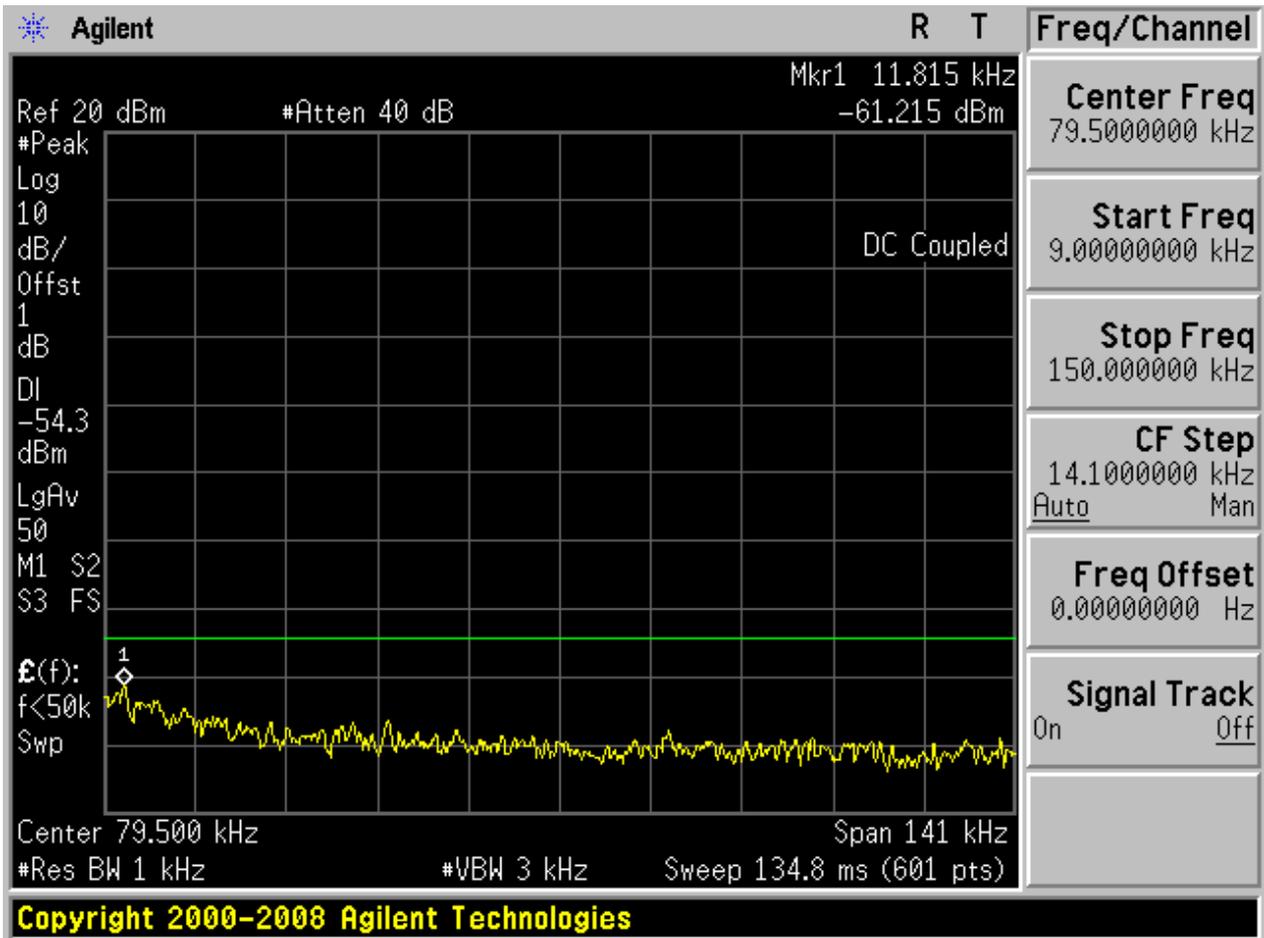
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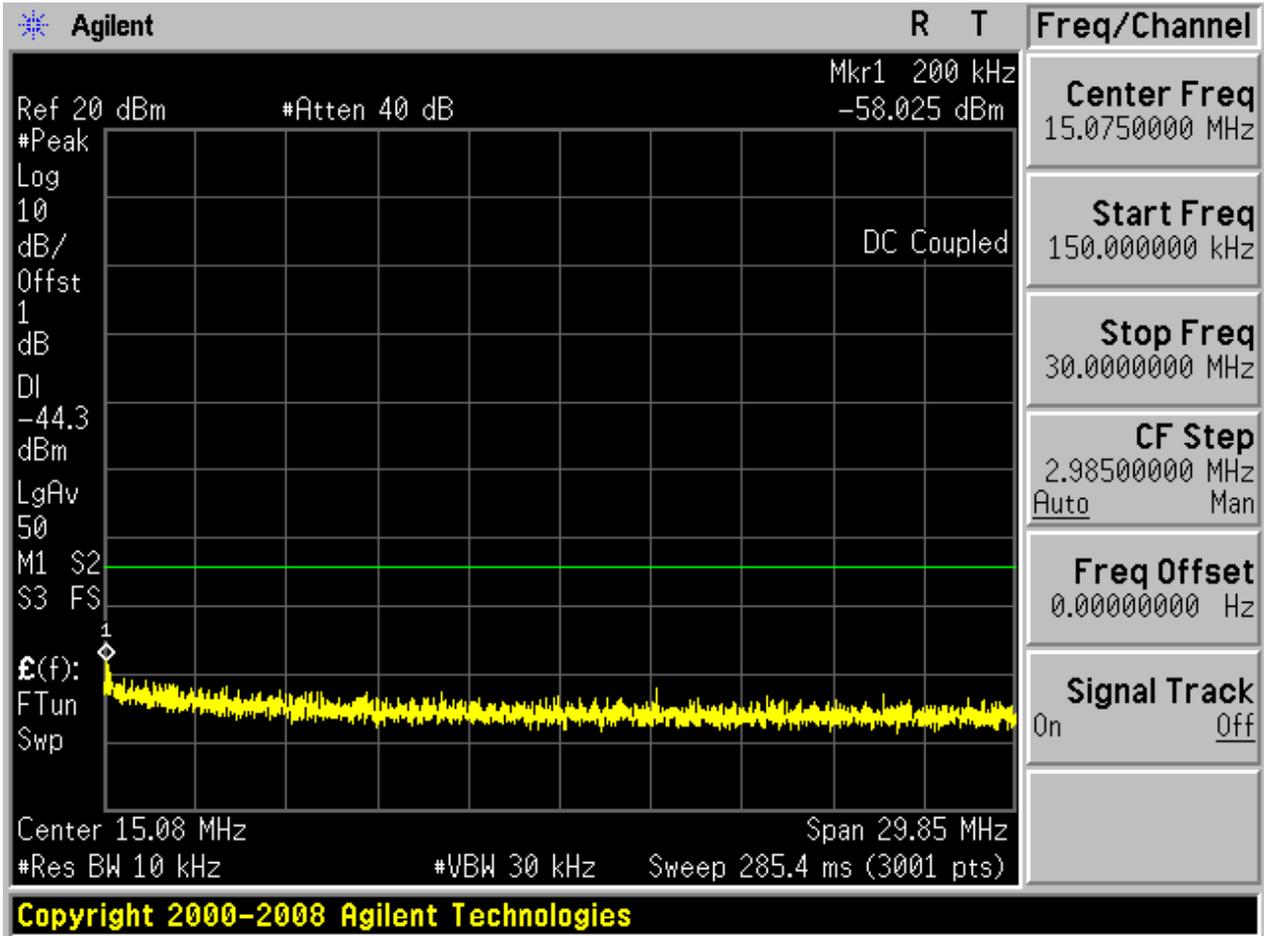
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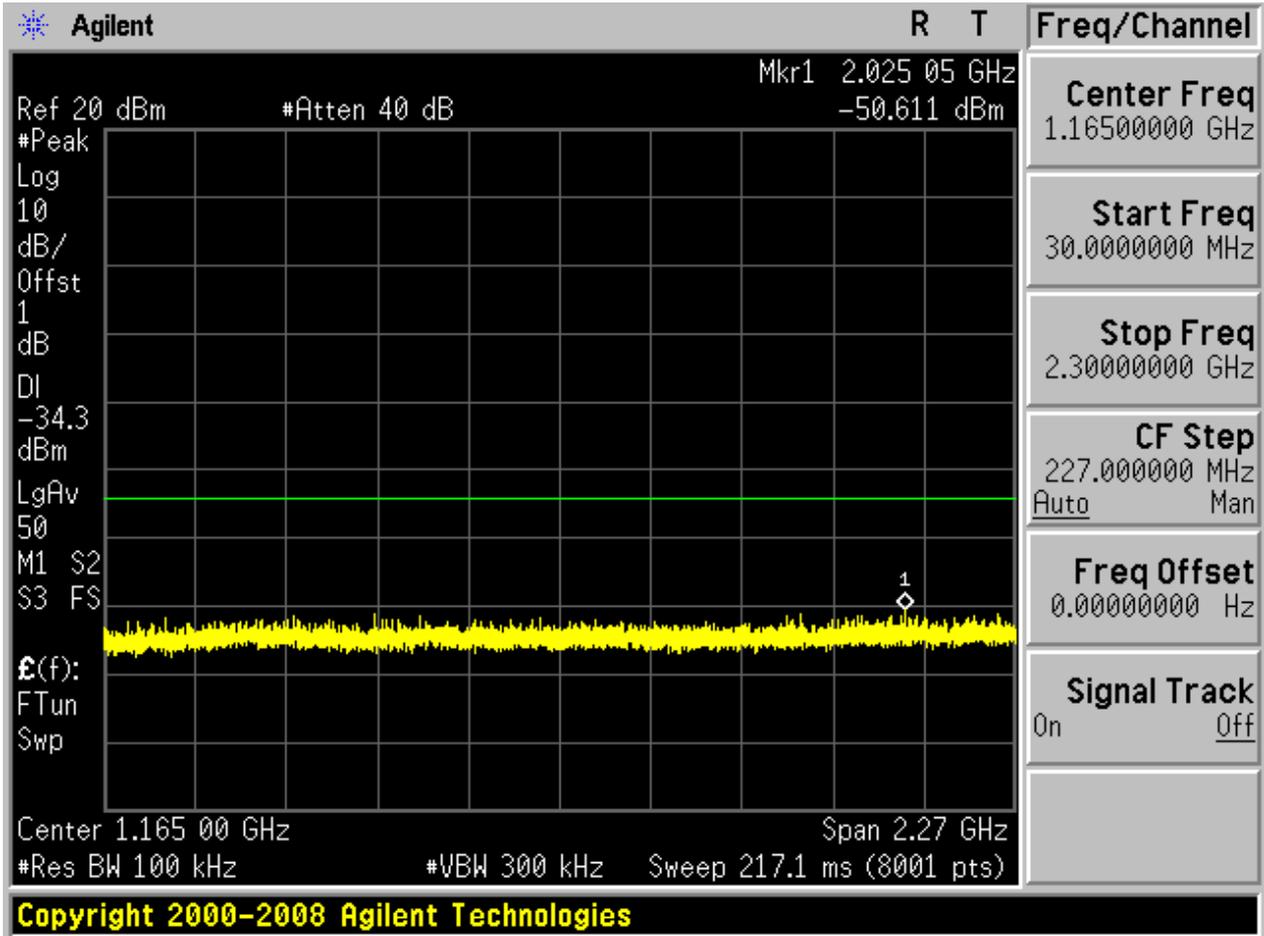


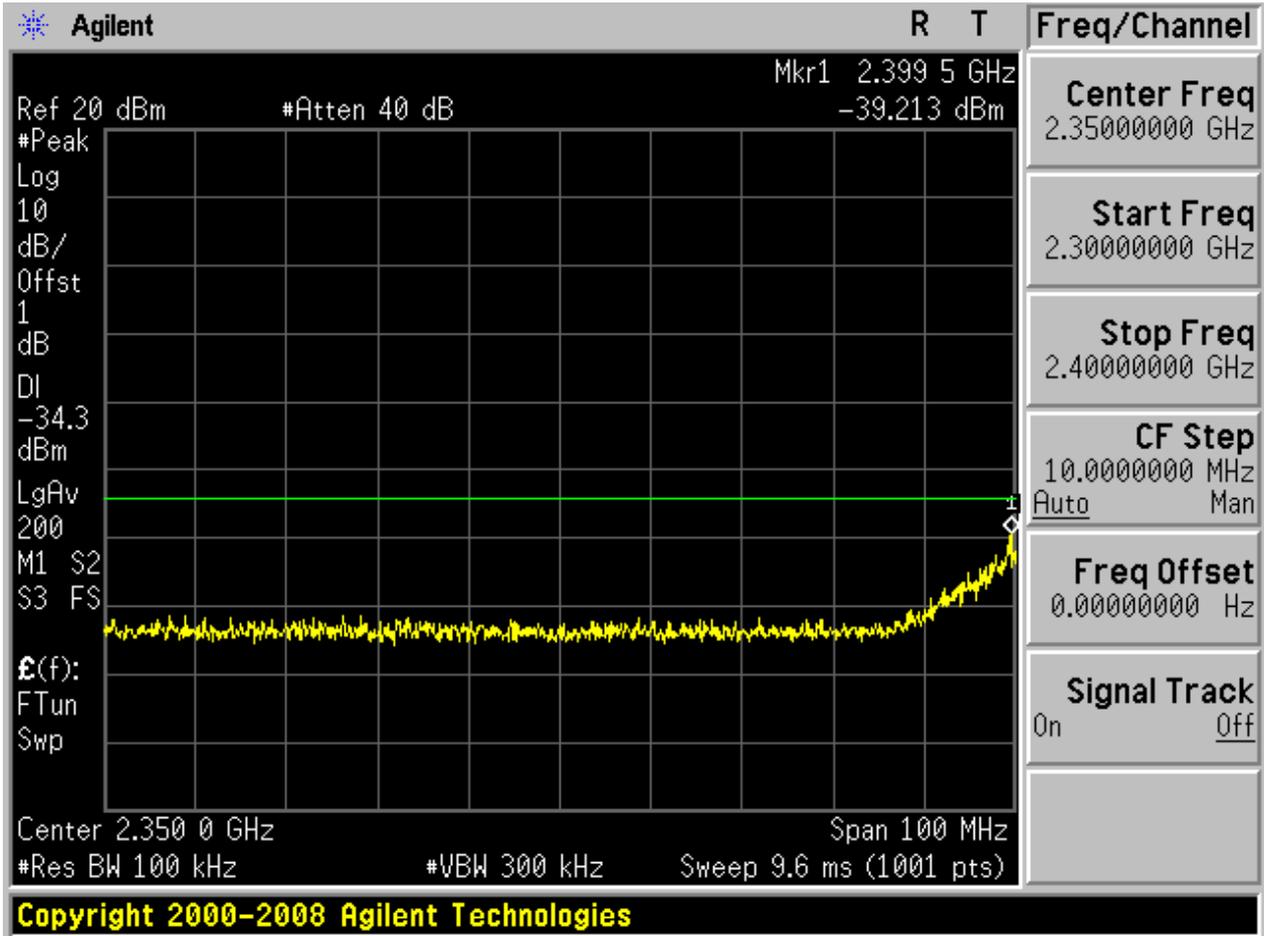


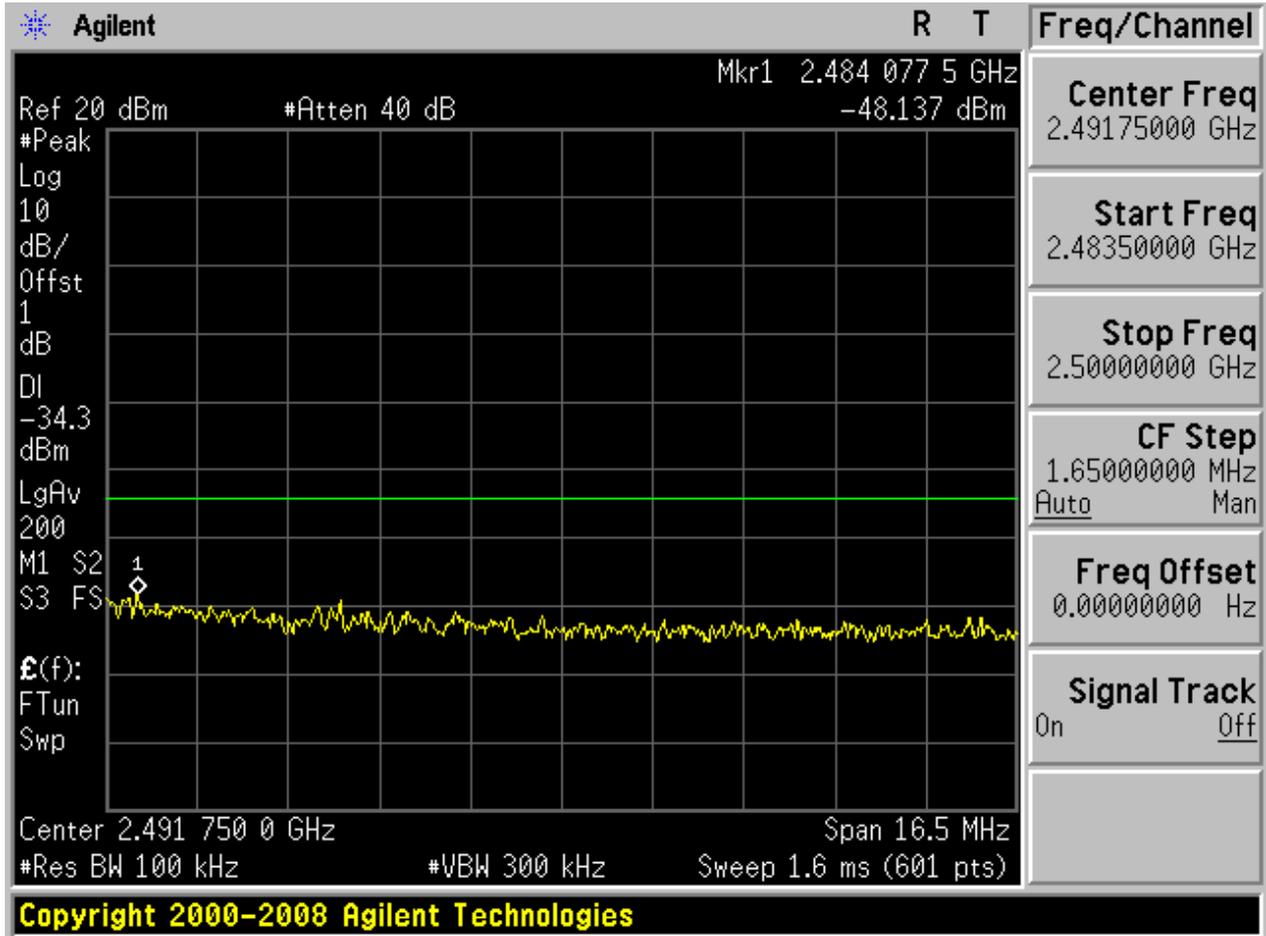
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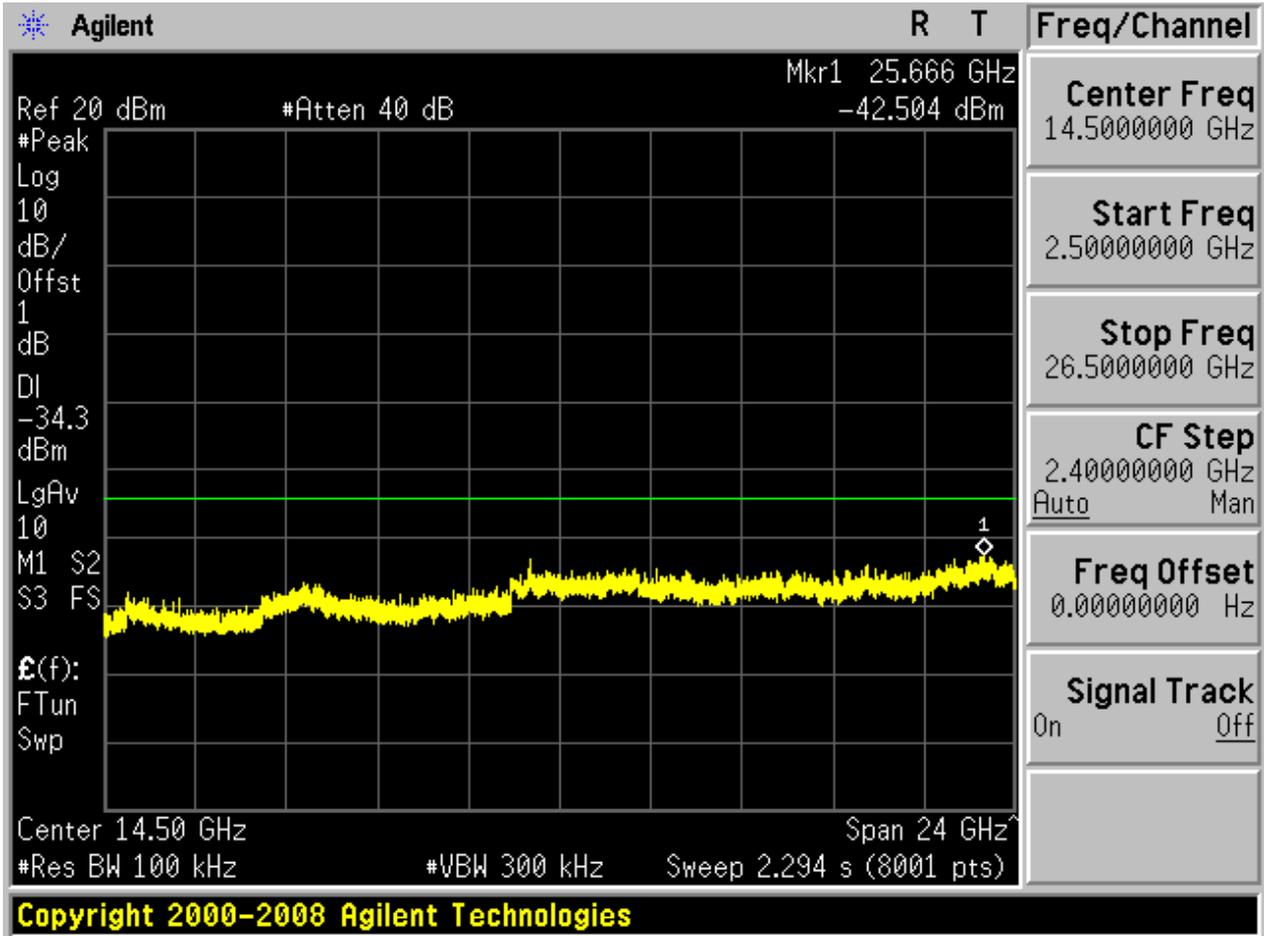








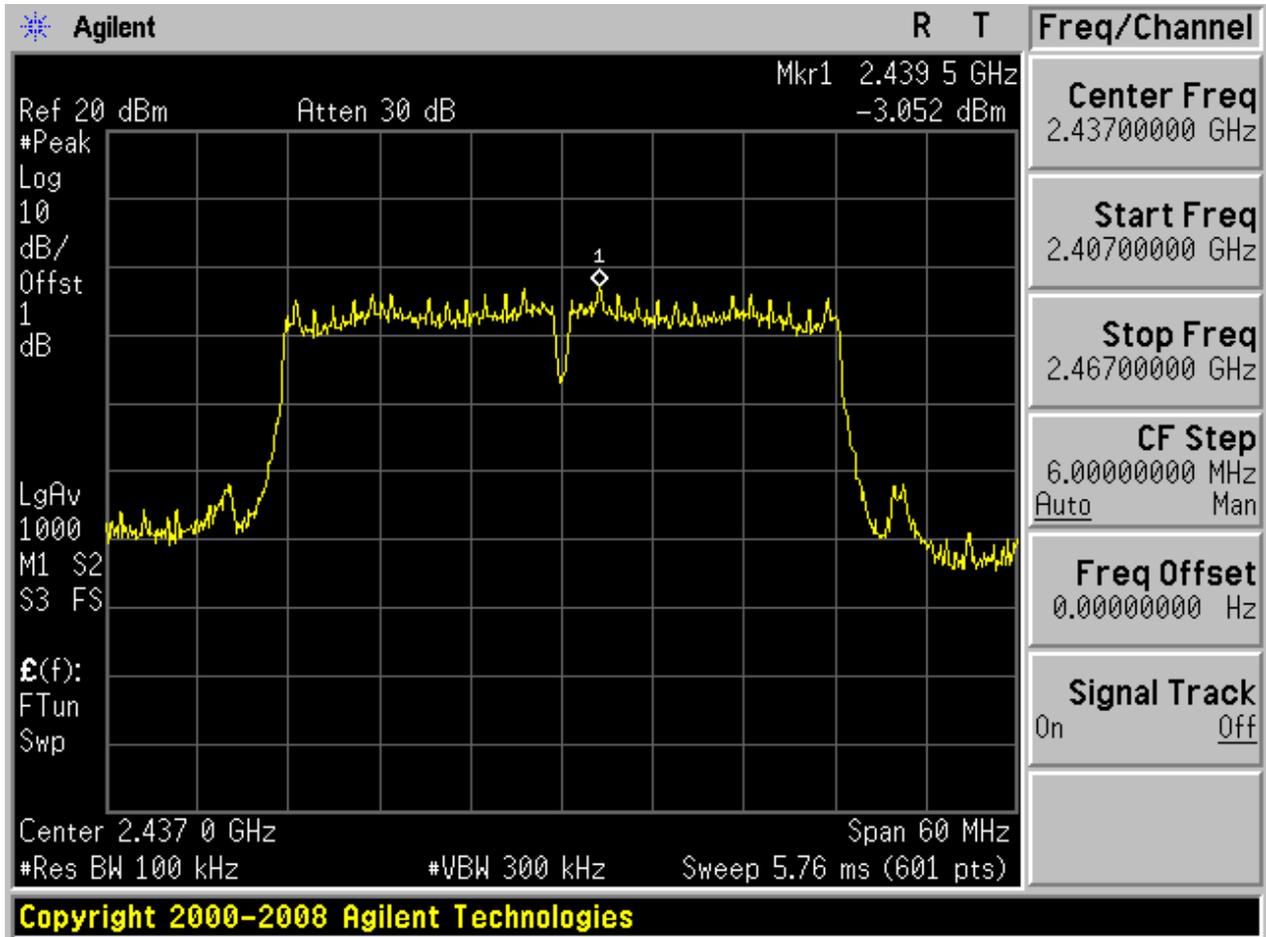






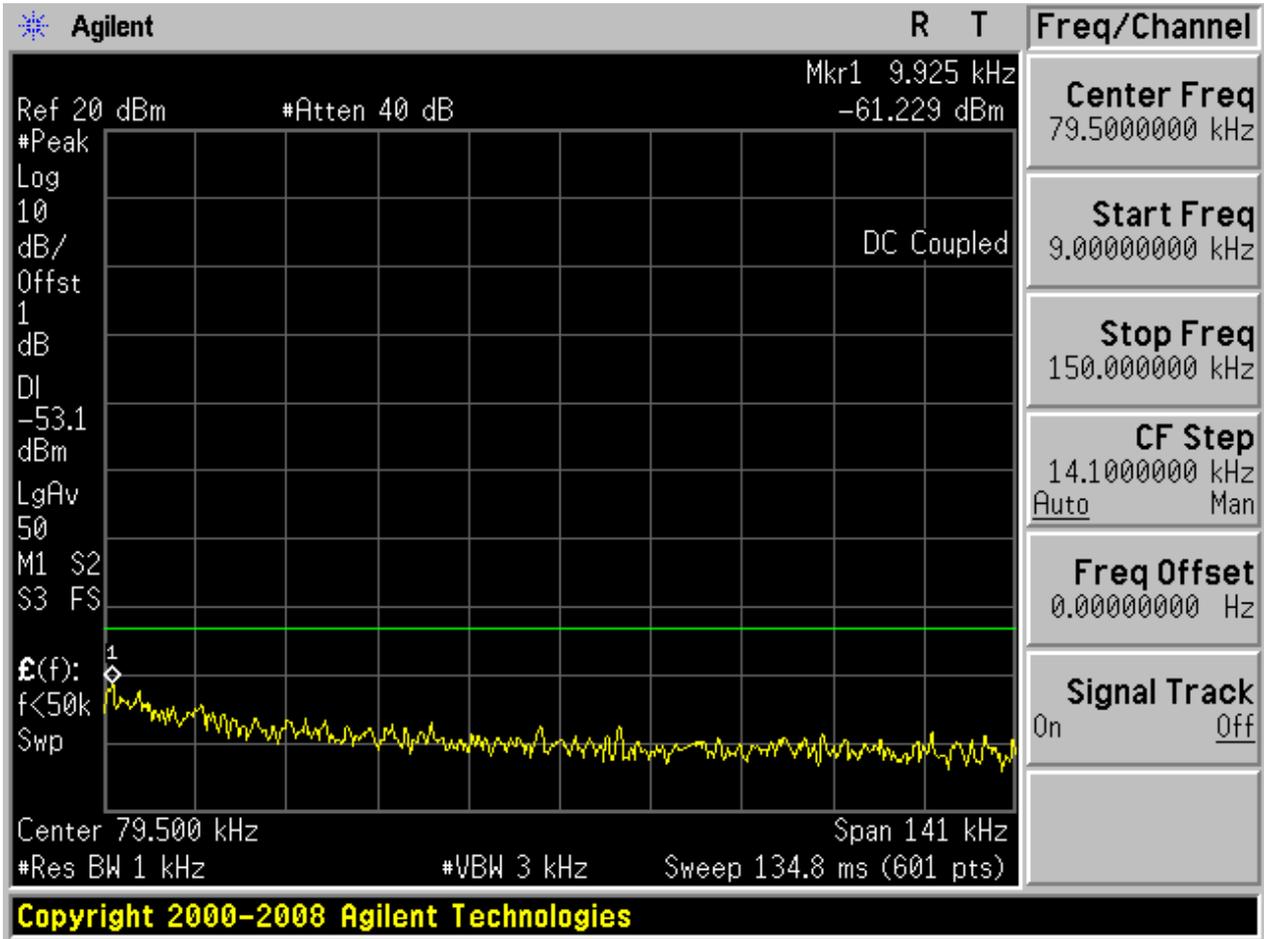
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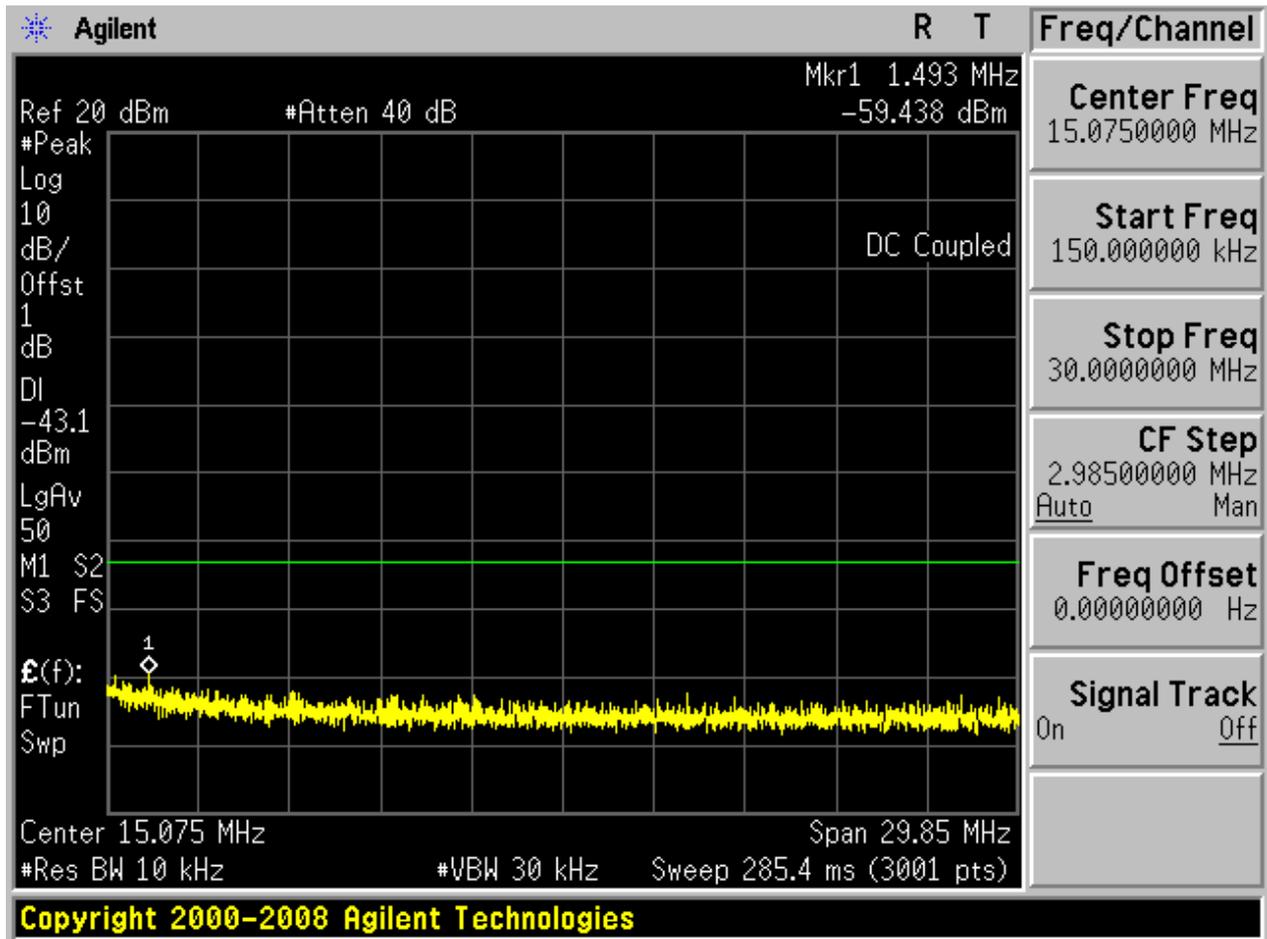
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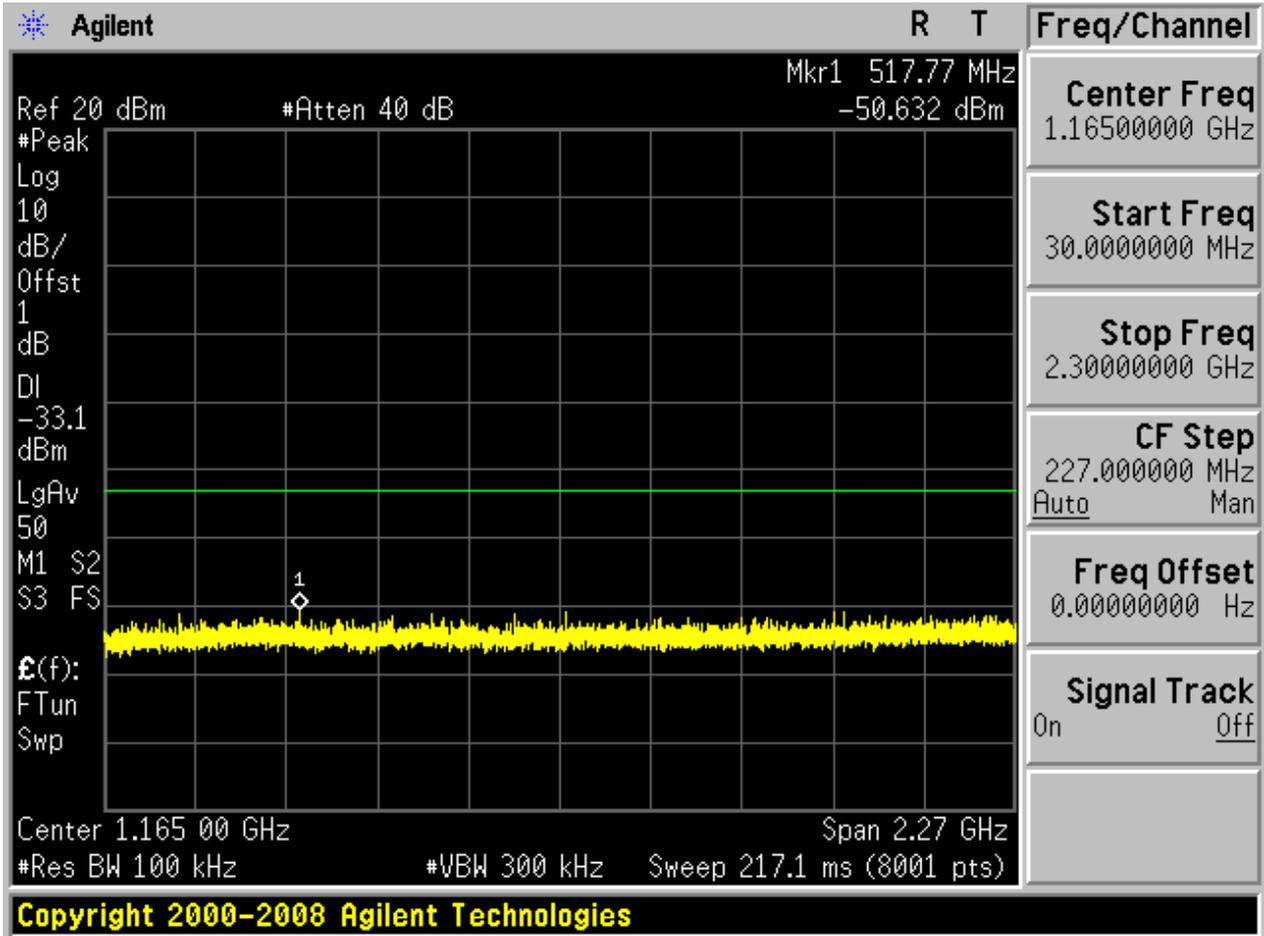


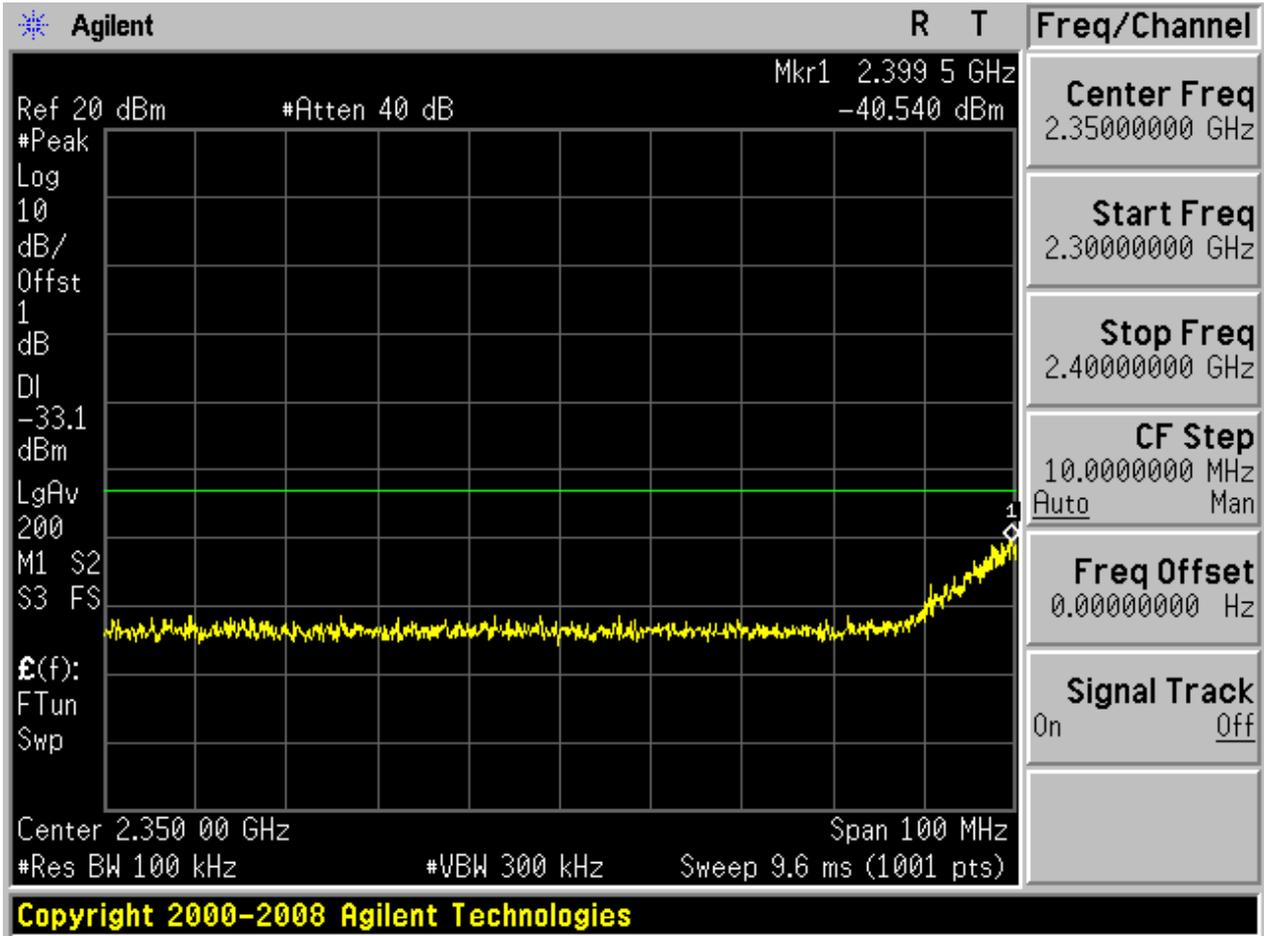


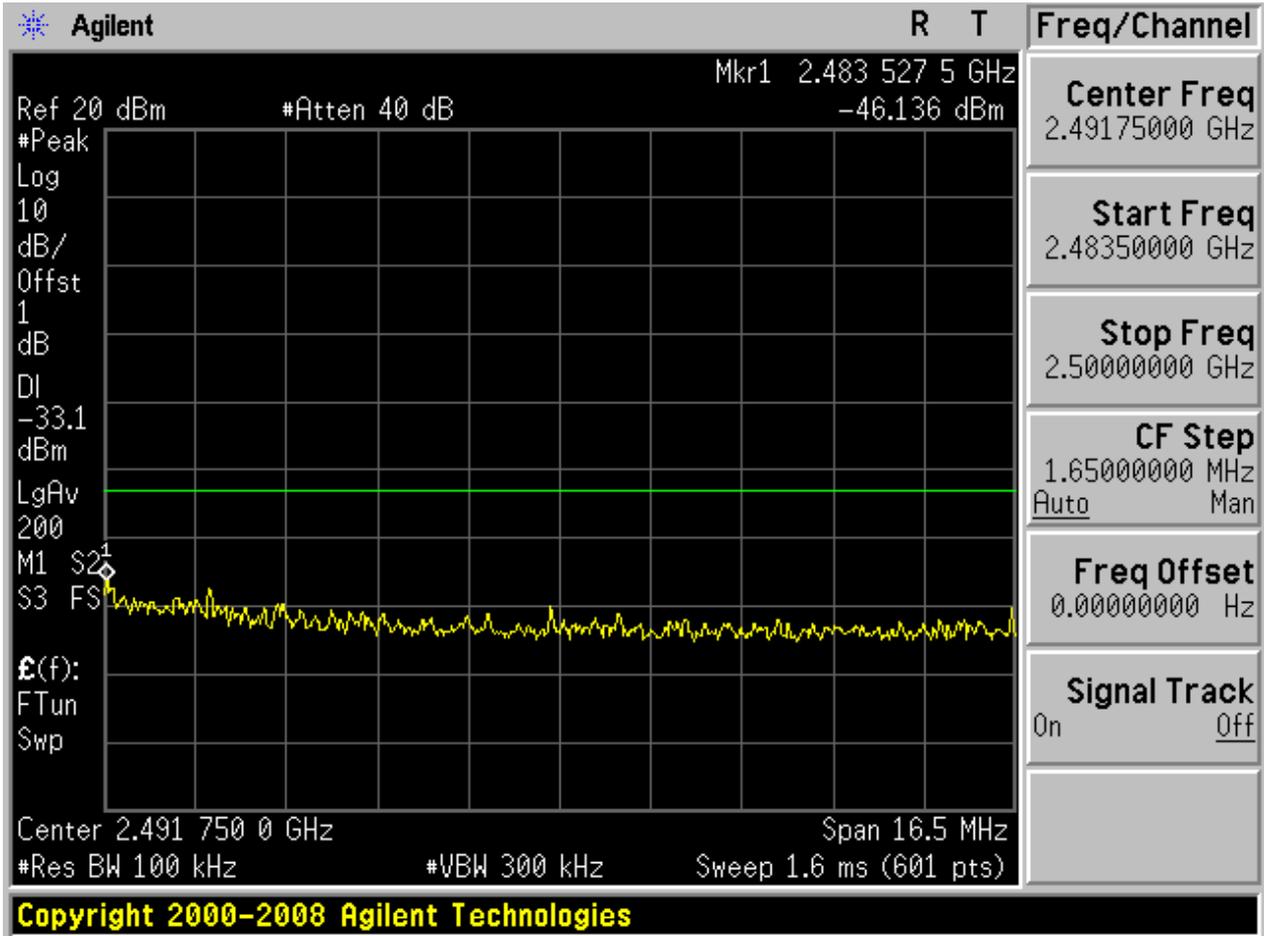
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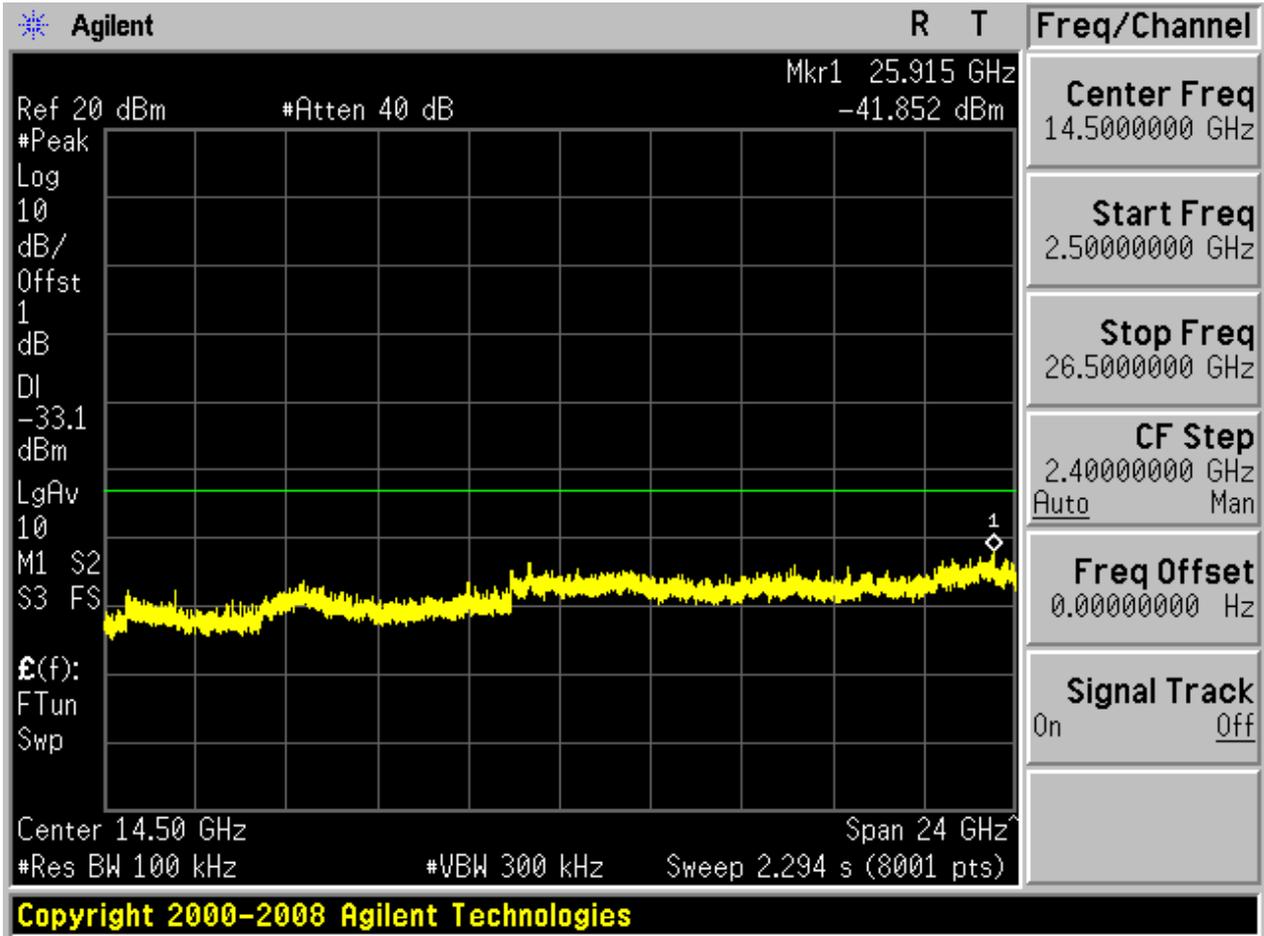








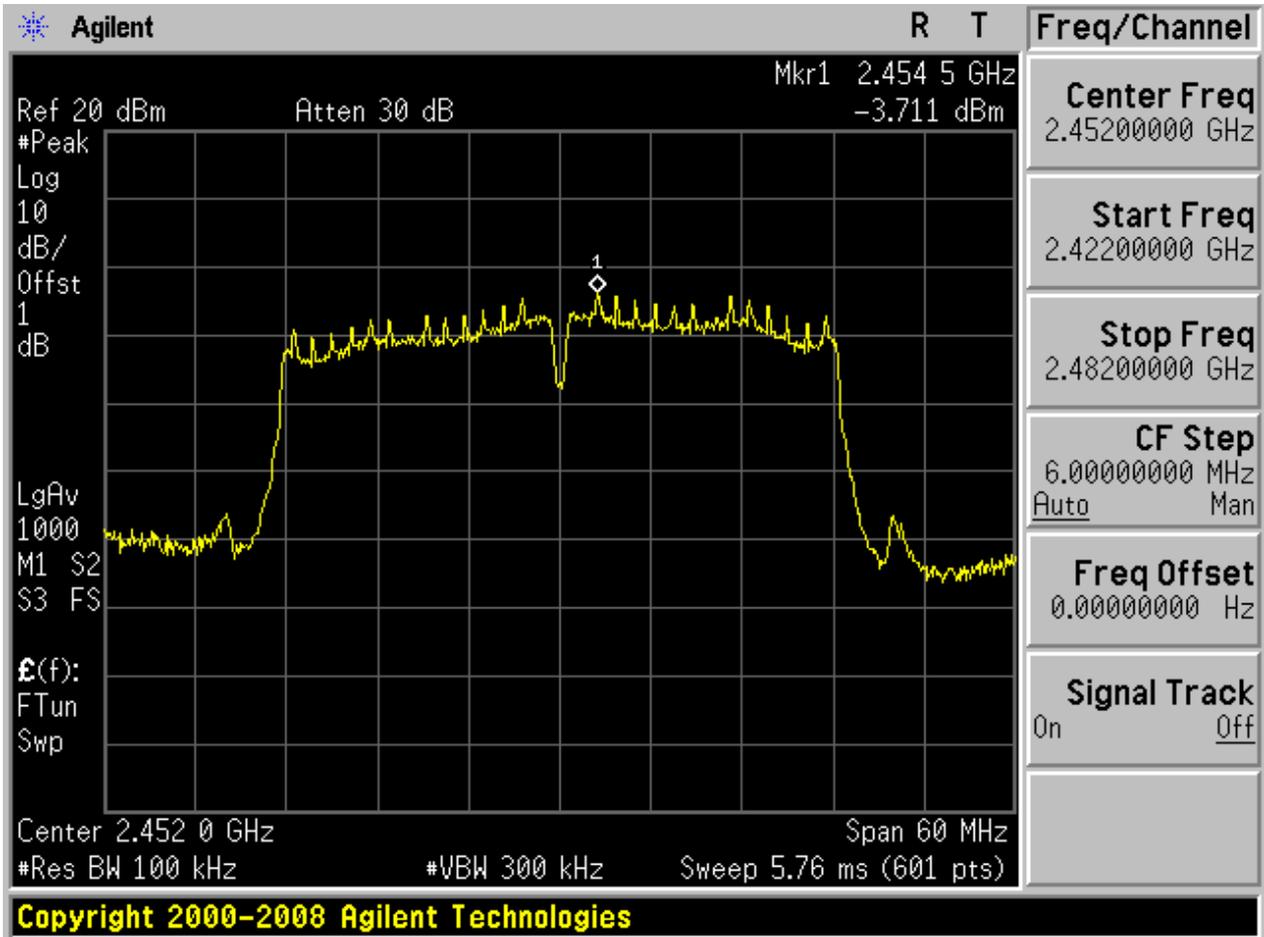






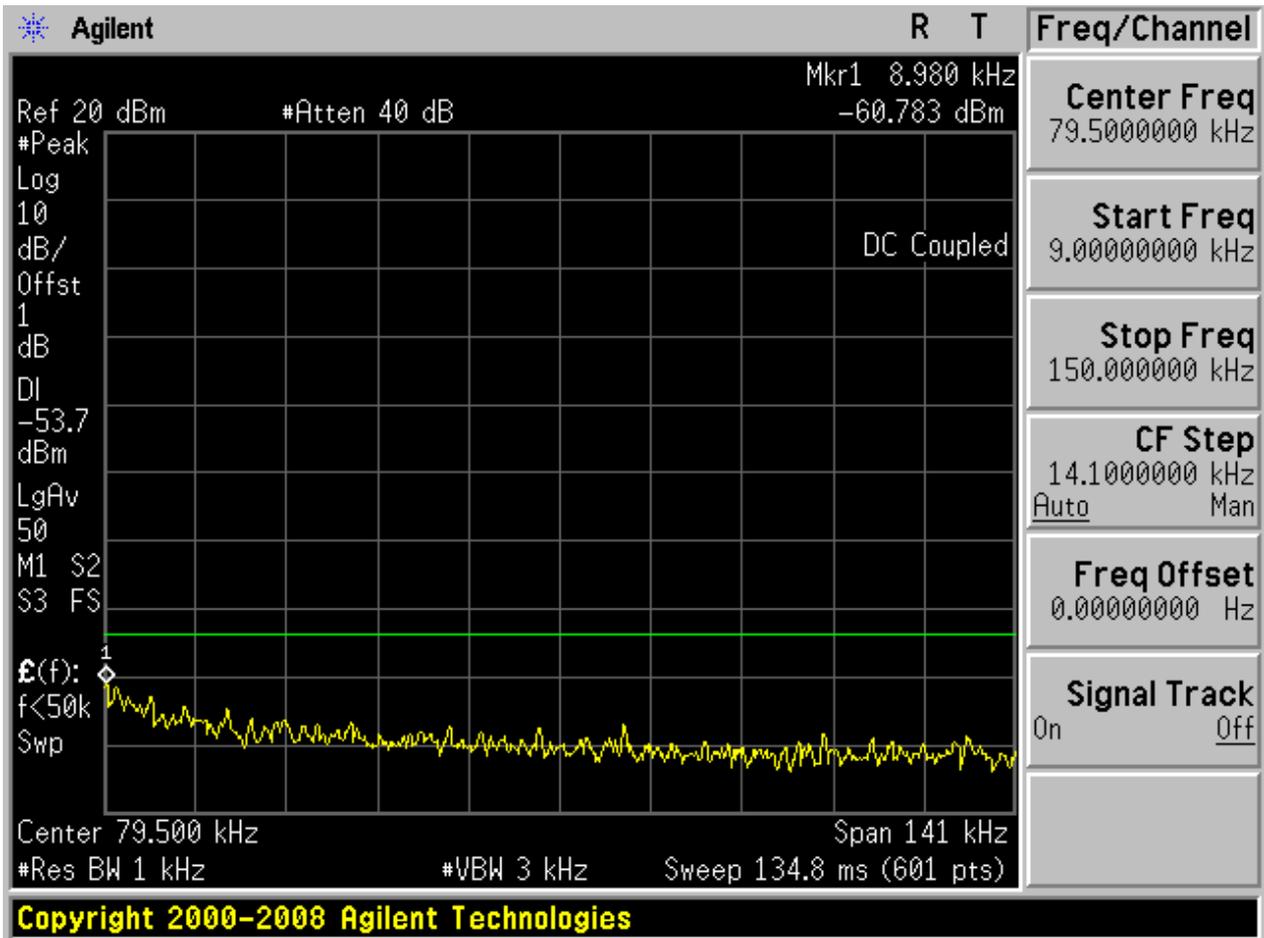
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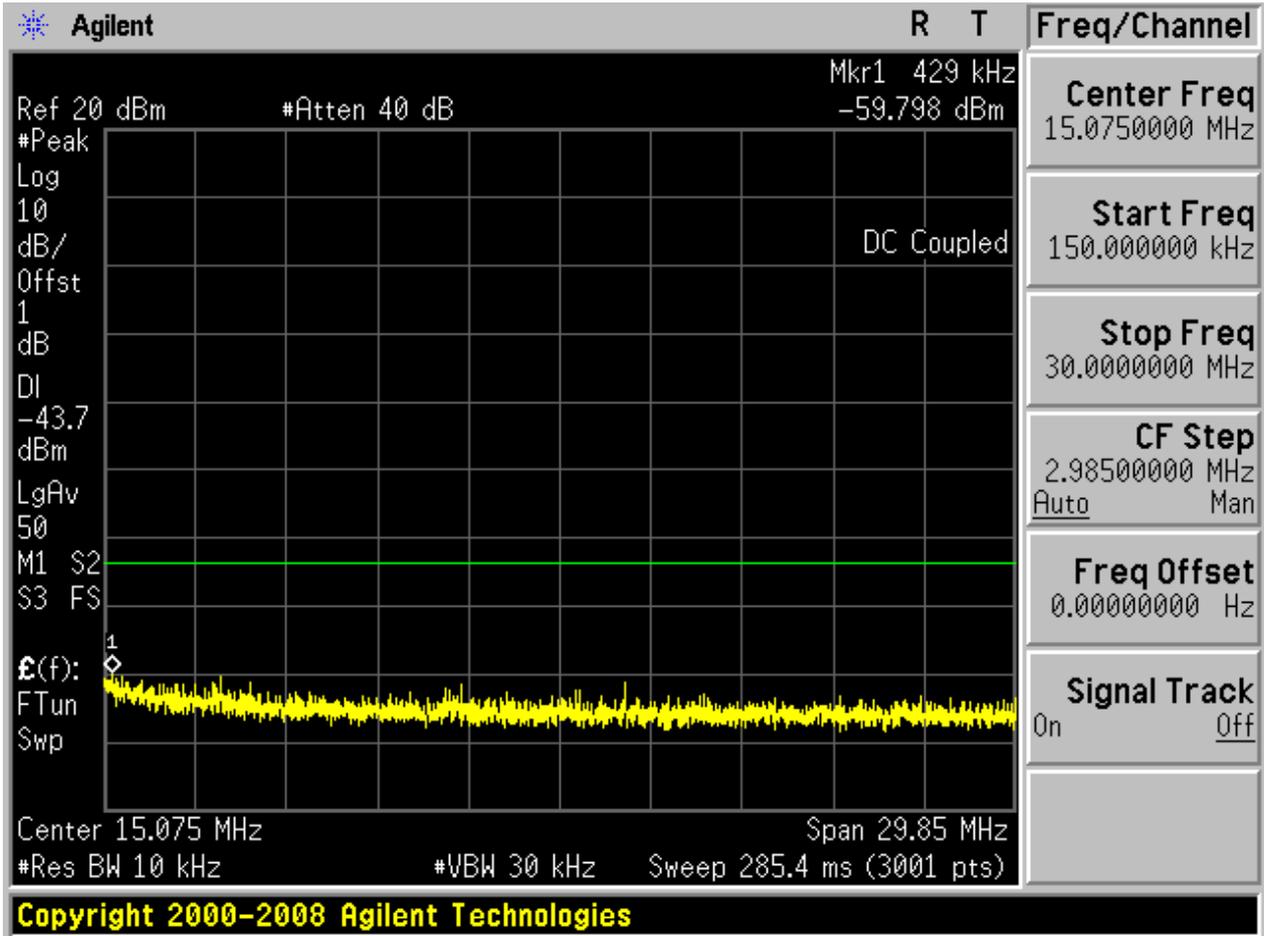
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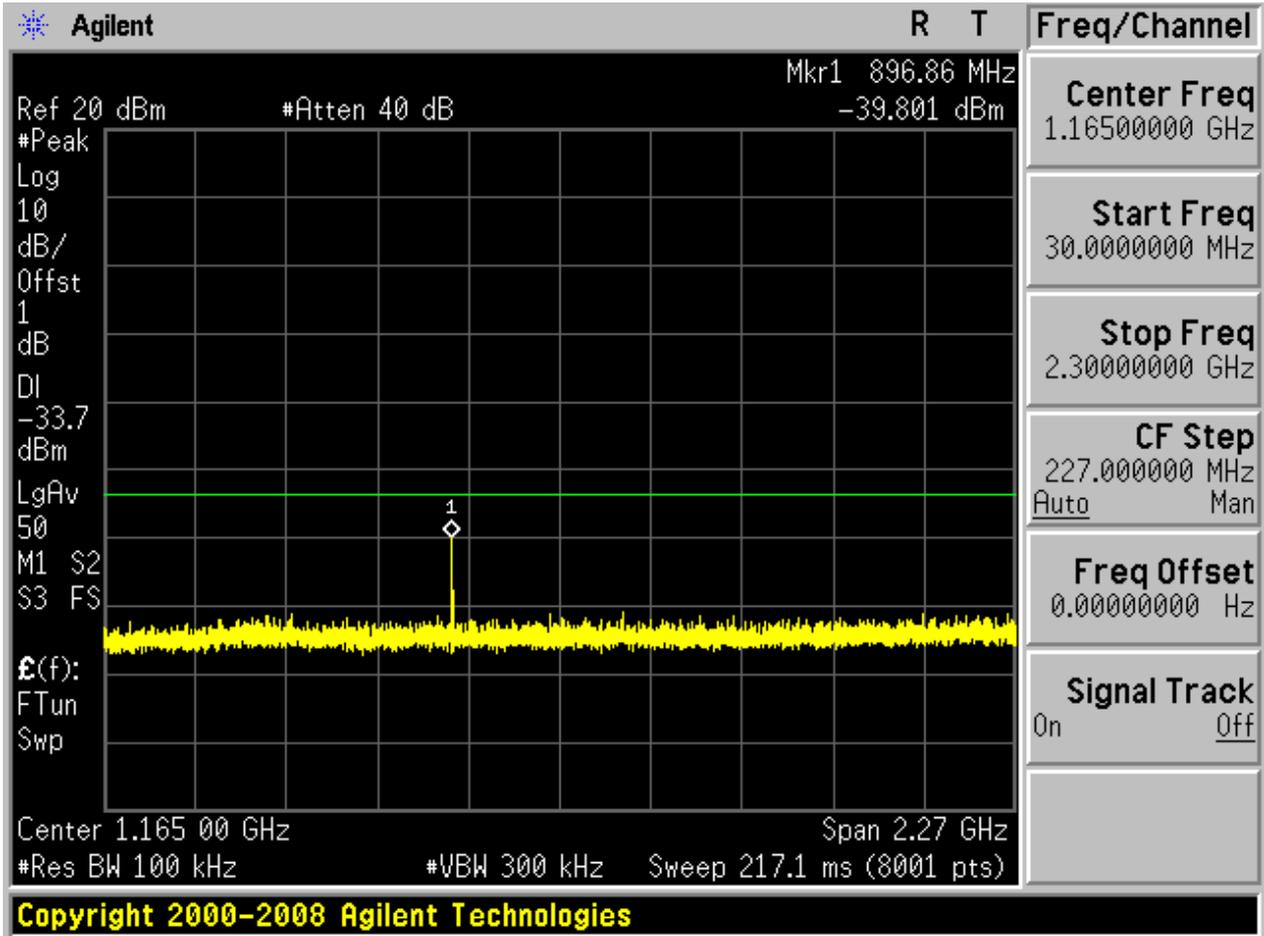


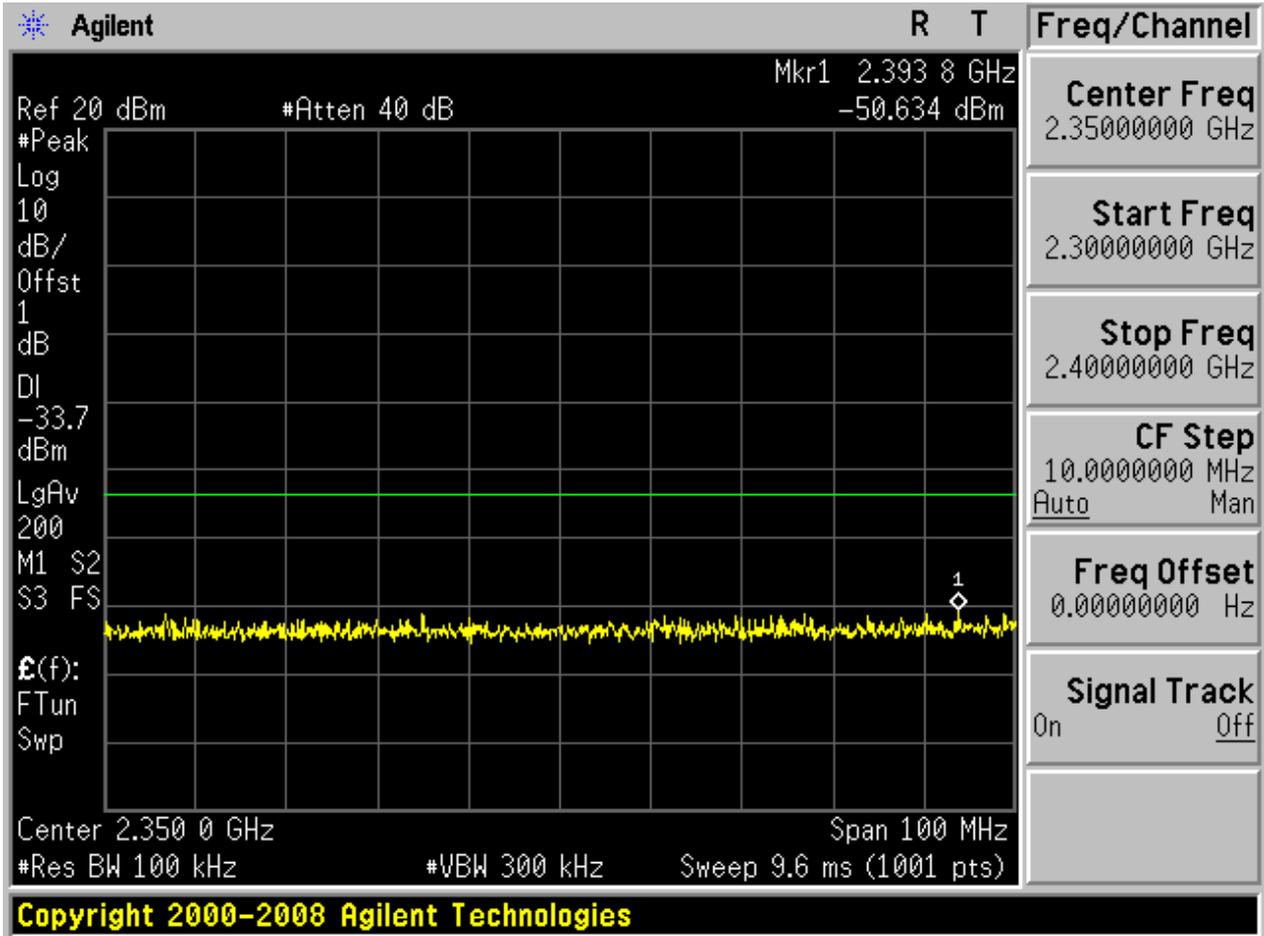


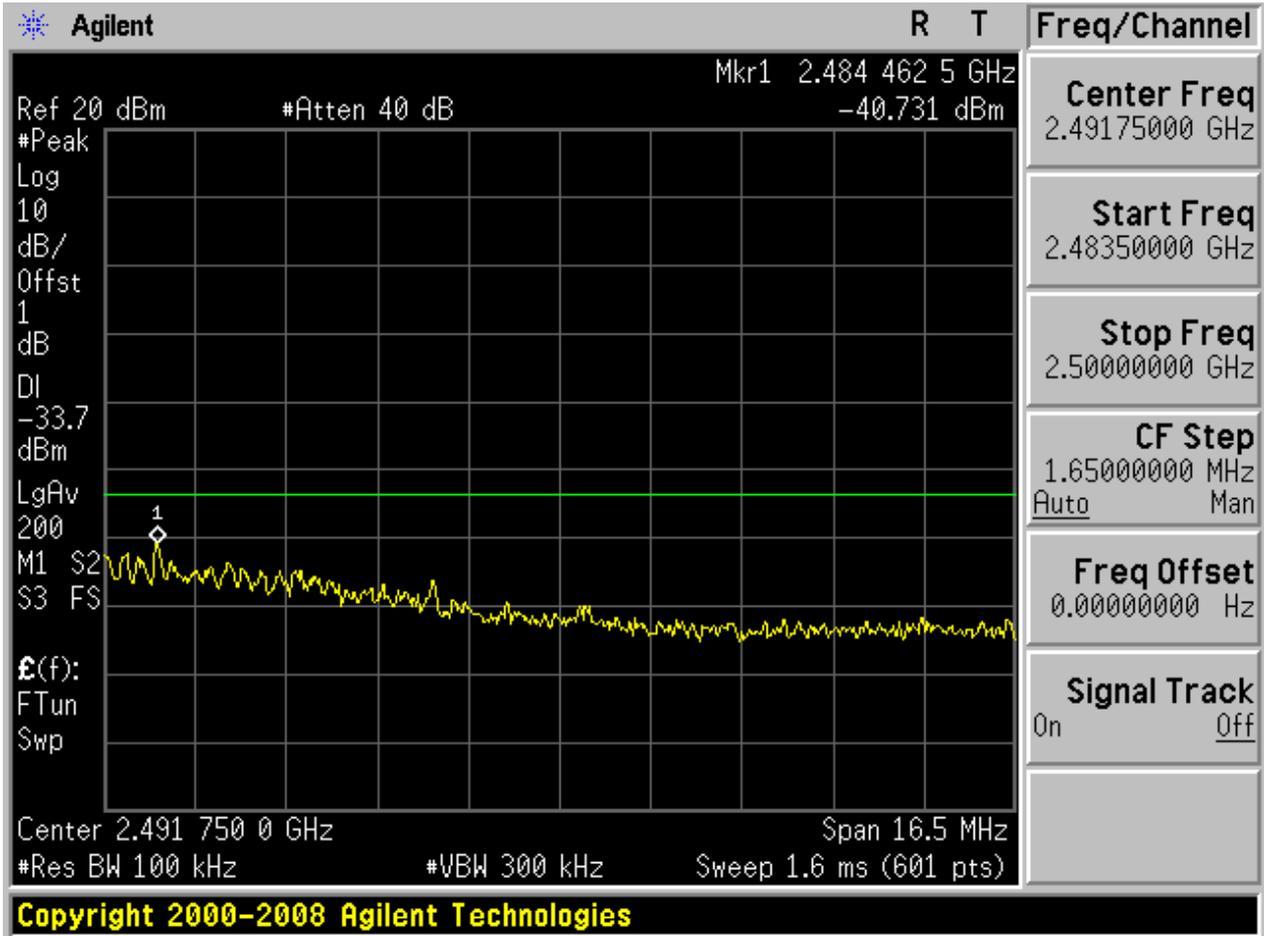
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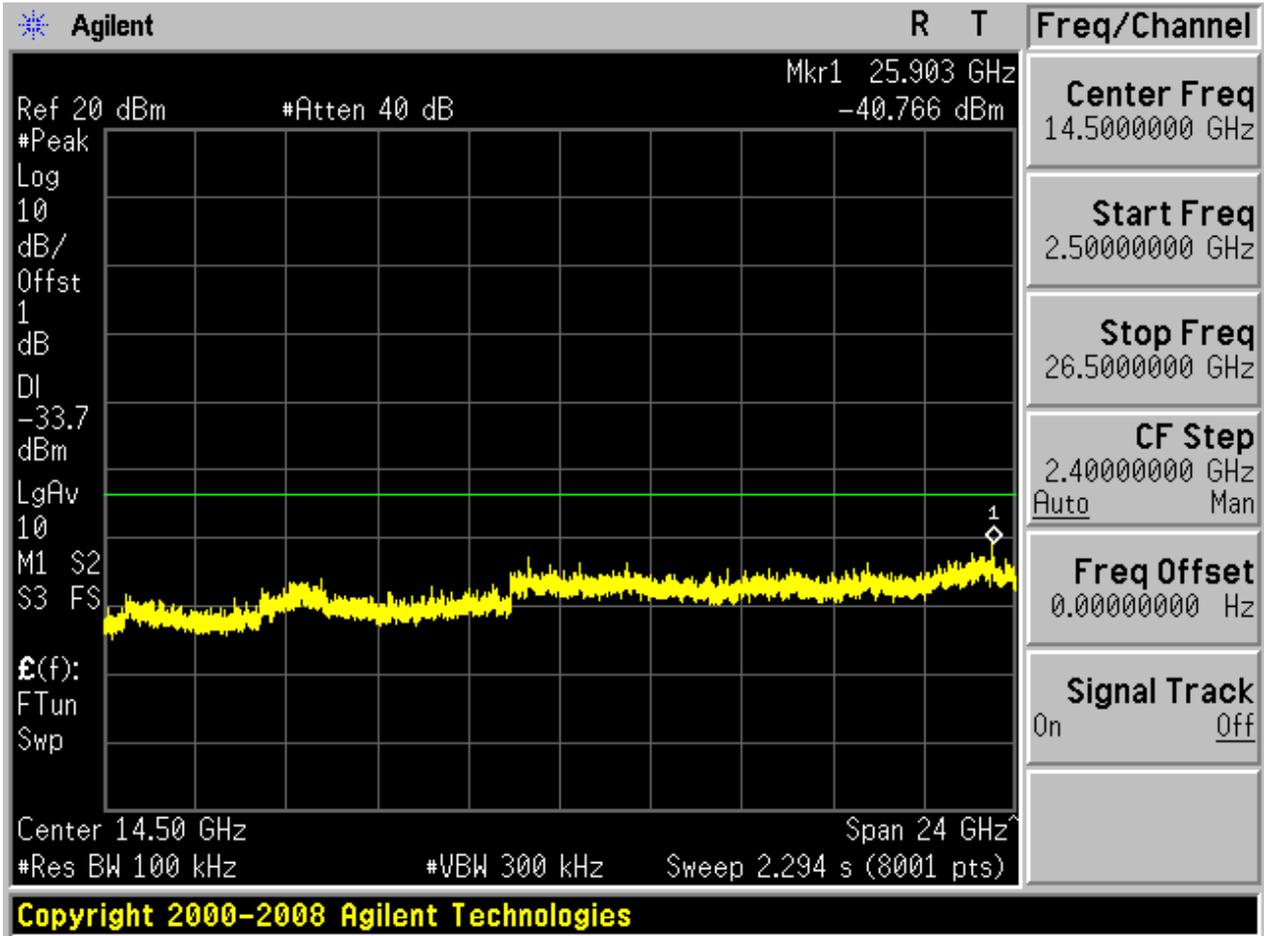










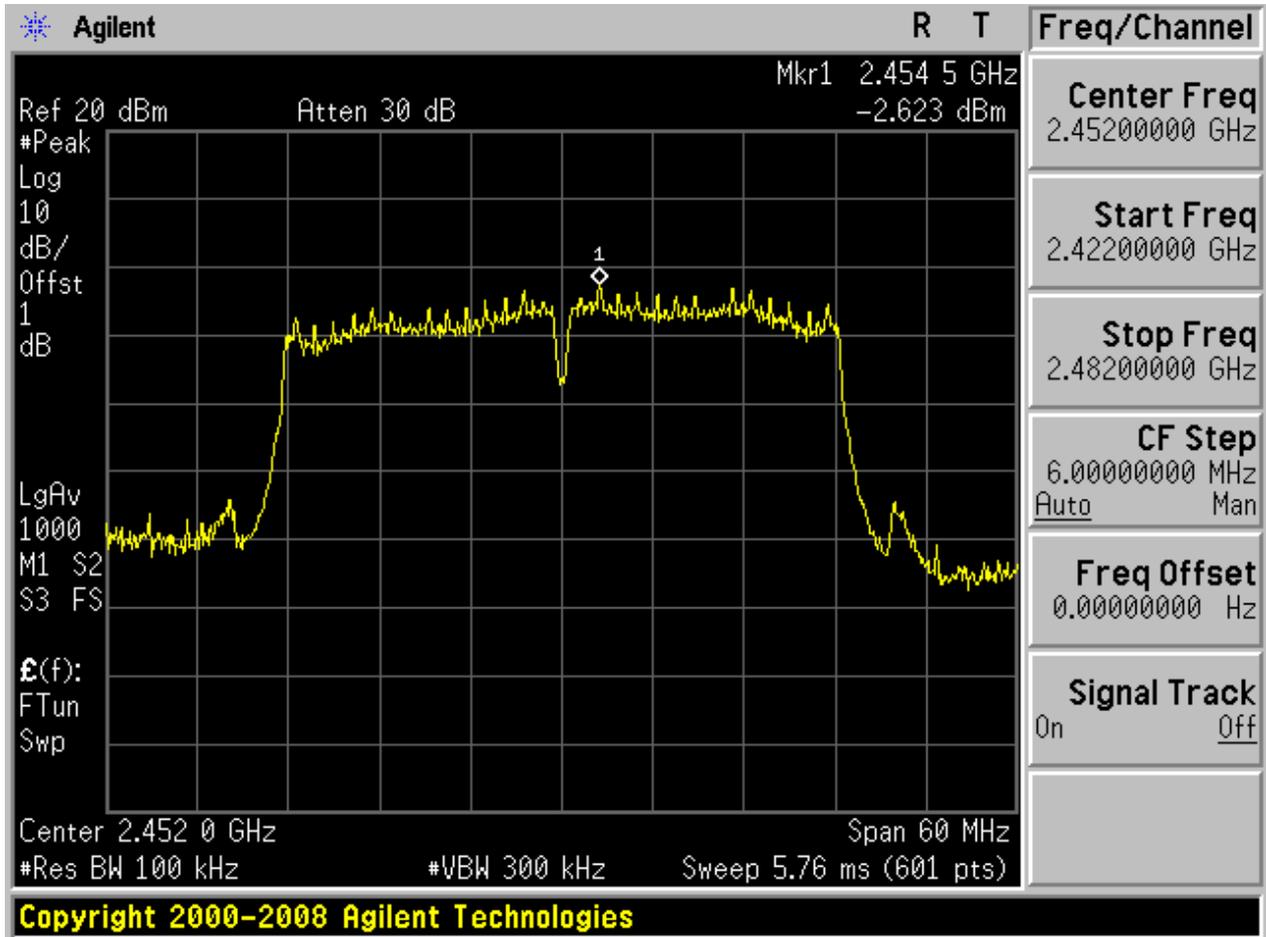


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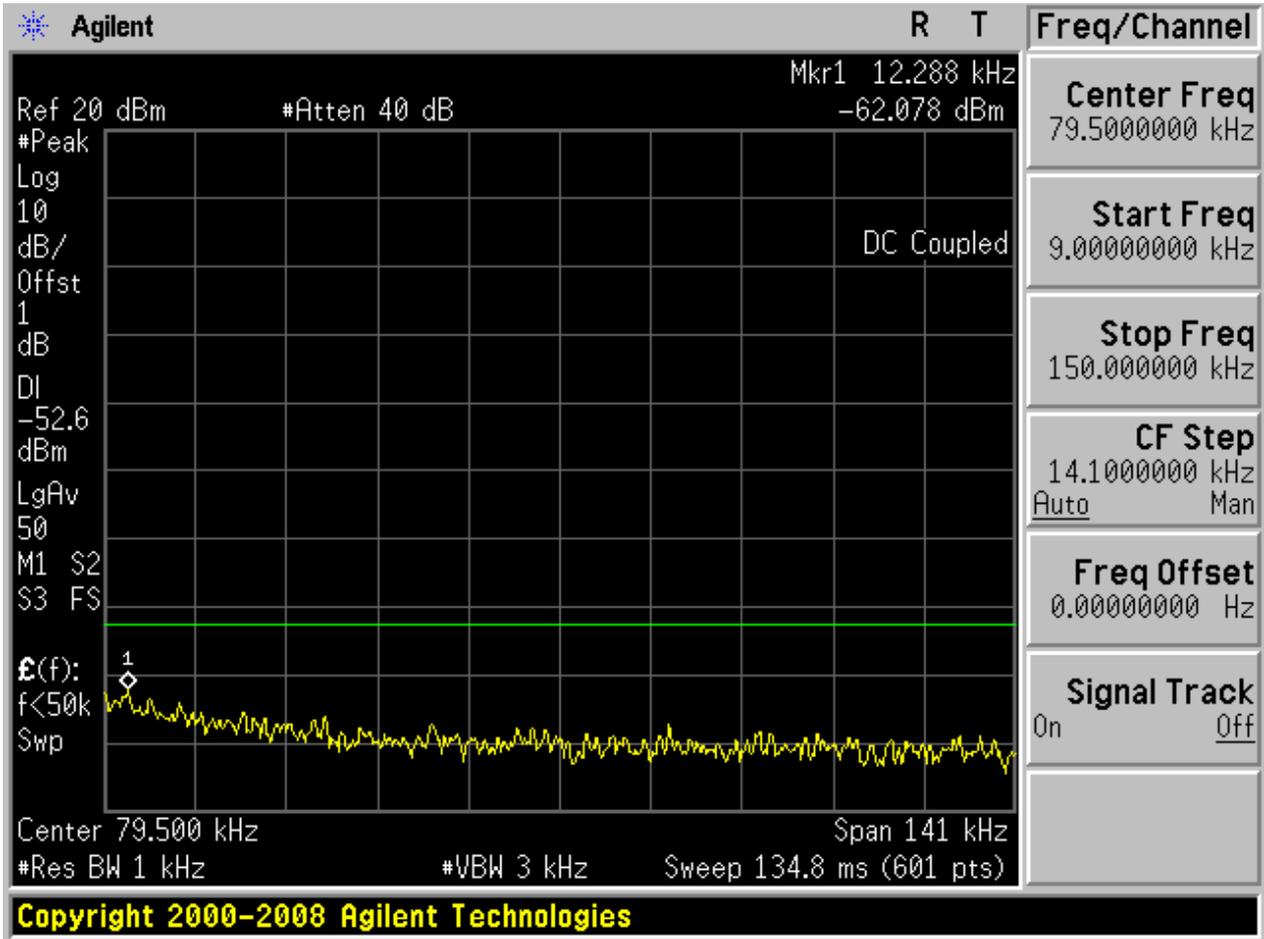
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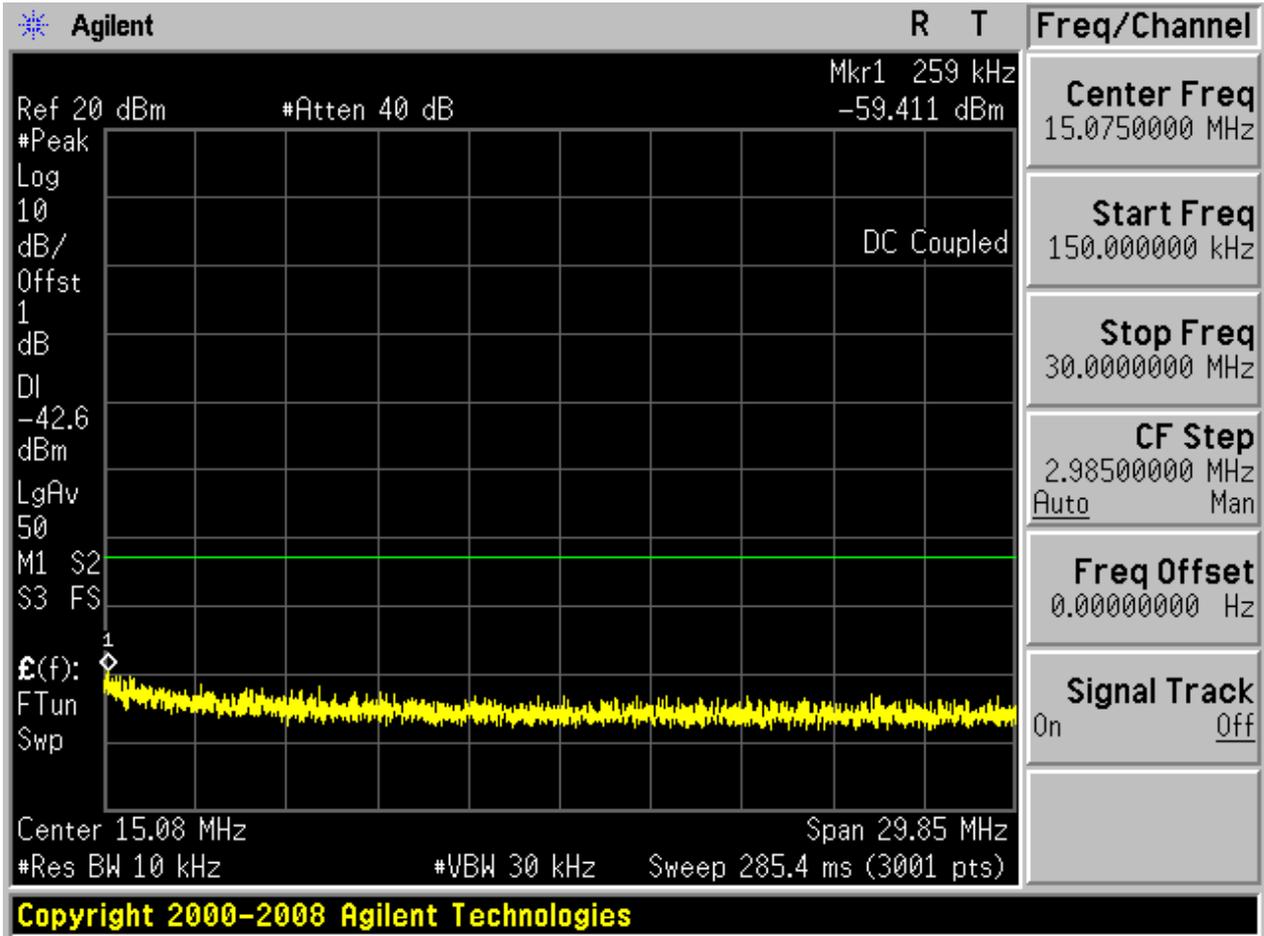
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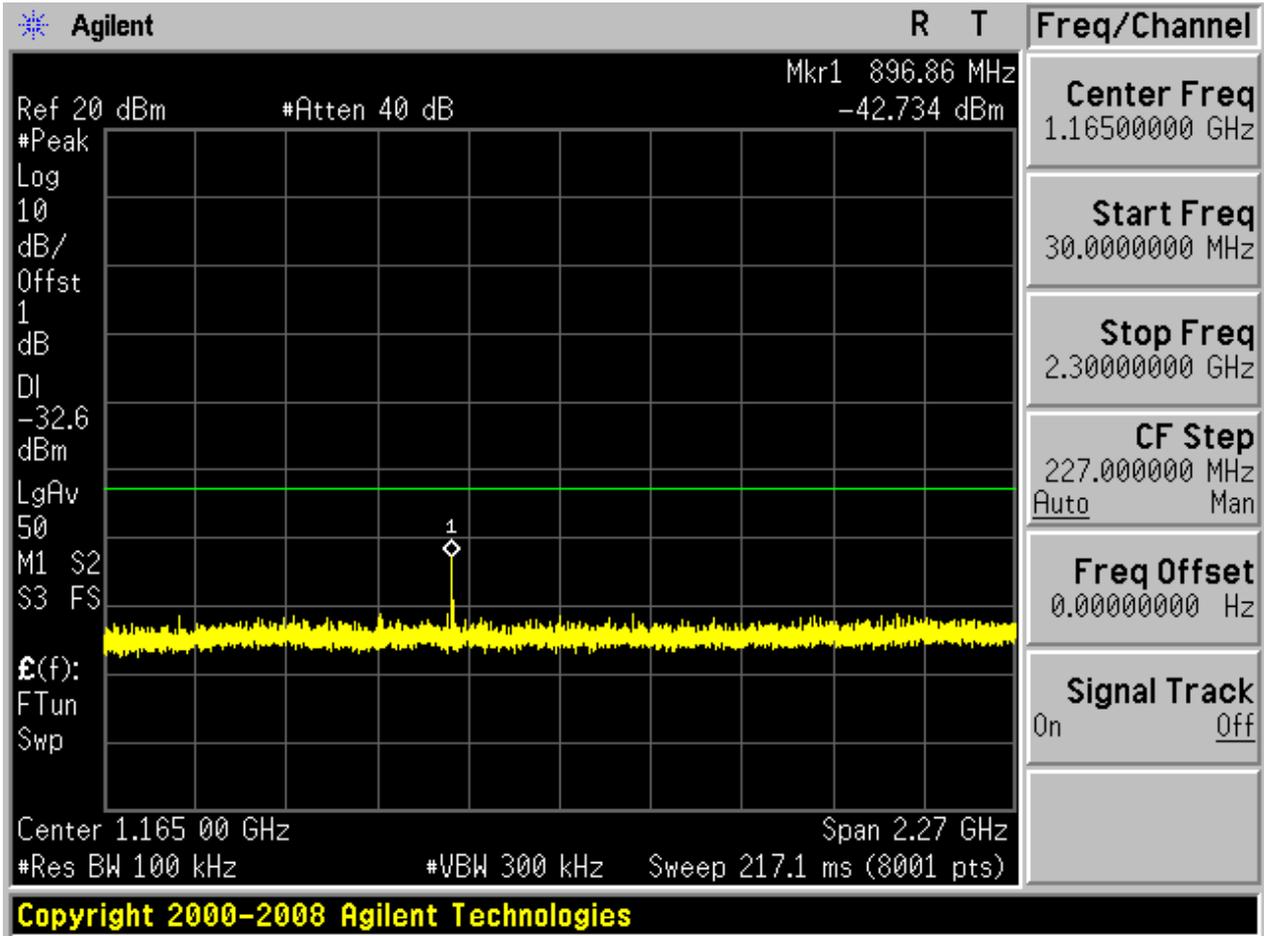


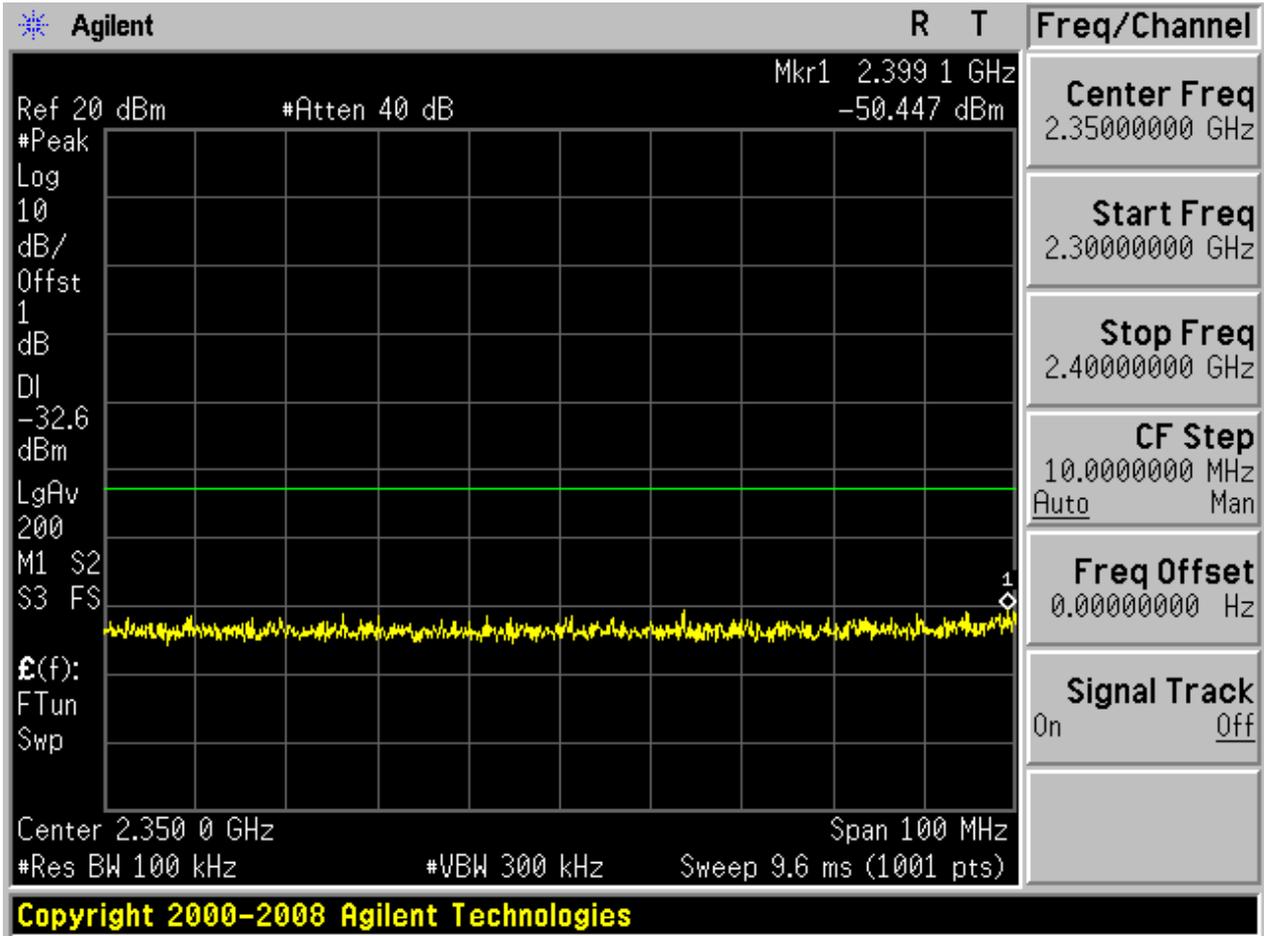


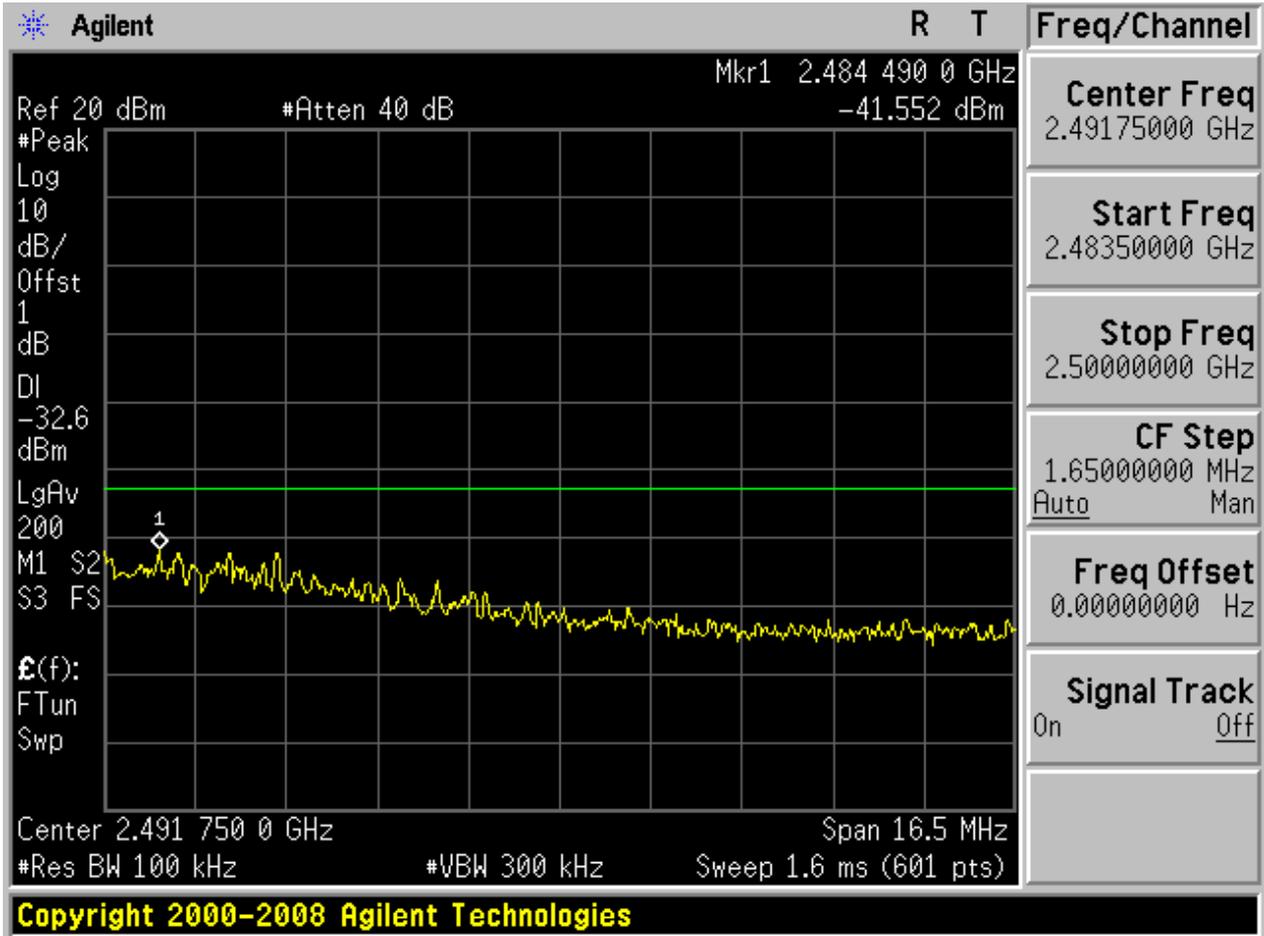
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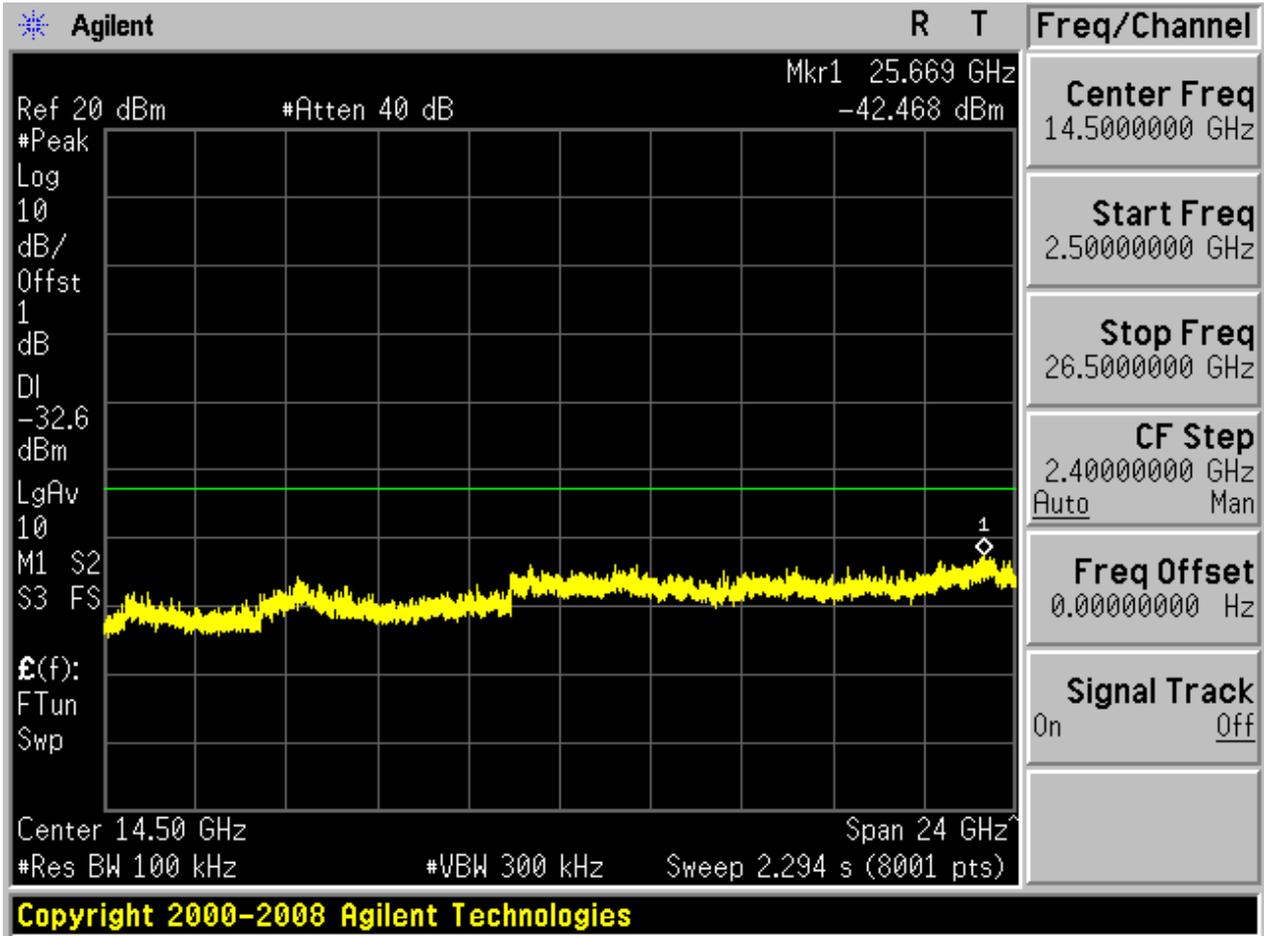














## Appendix G: Radiated Spurious Emission & Spurious in Restricted

### Band

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

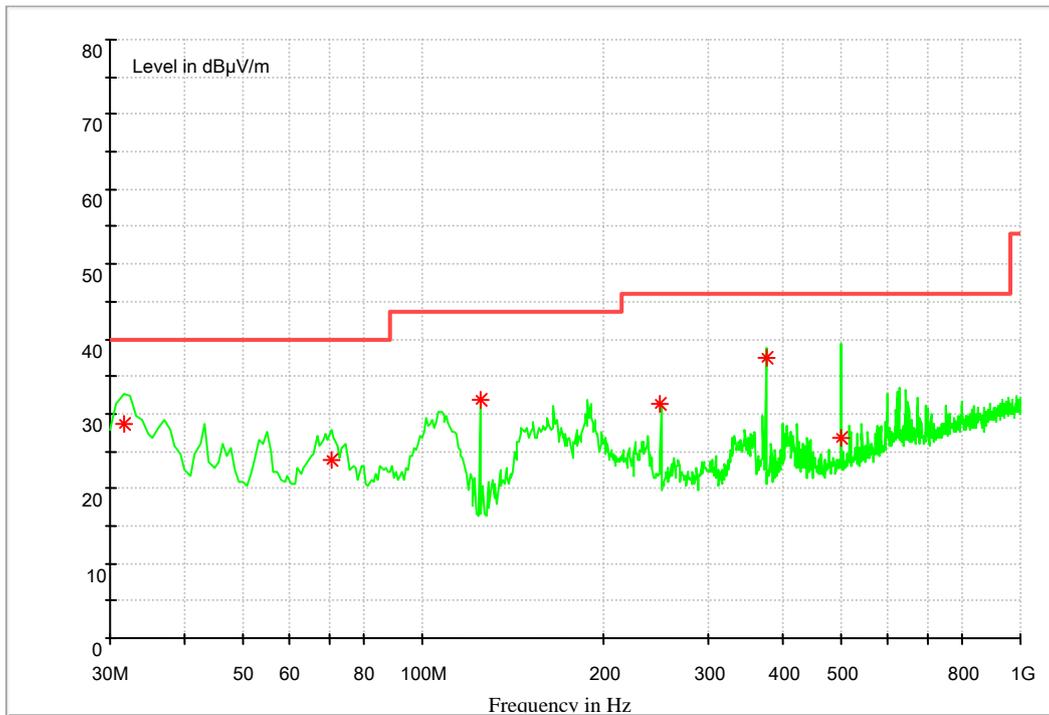
**Part 1: Testing Range of “9 kHz to 30MHz”**

NOTE1: No peak found in the Test Range of “9 kHz to 30MHz”

**Part 2: 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.

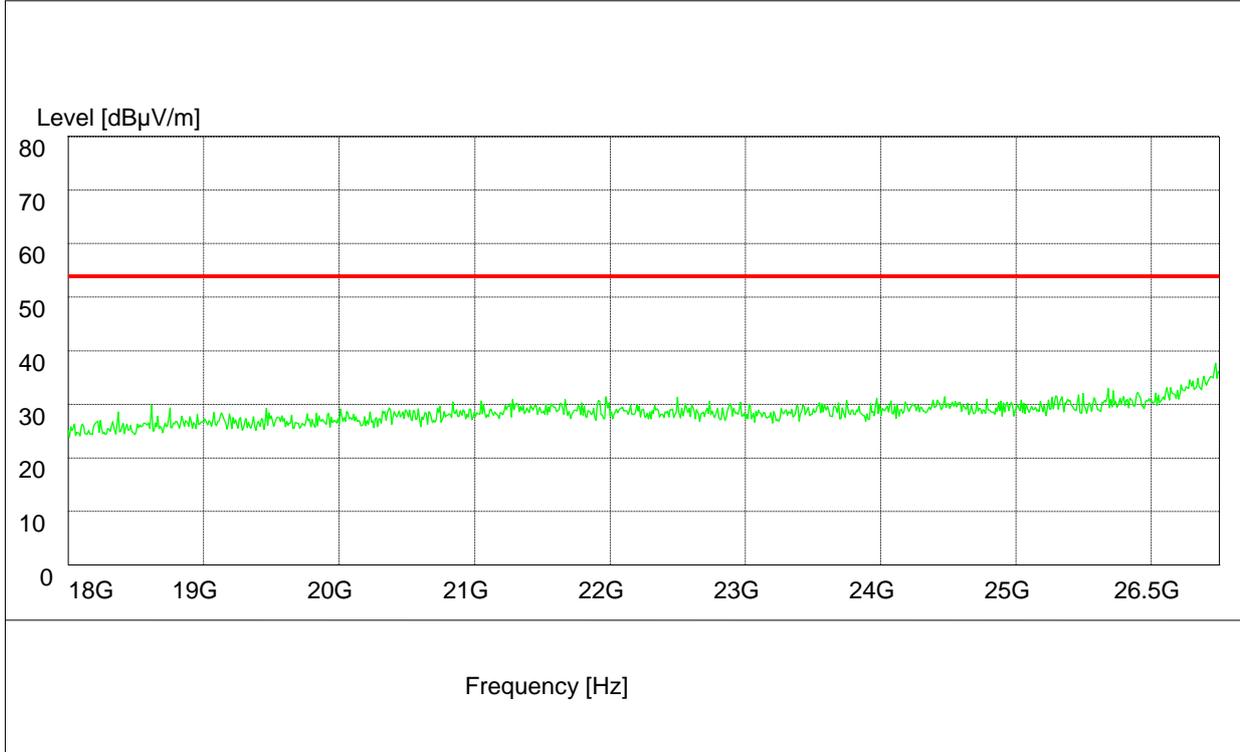
Note 2: **The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).**



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

**Part 3: Testing Range of “18 GHz to 26.5 GHz”**

Note: No peak found in pre- test.

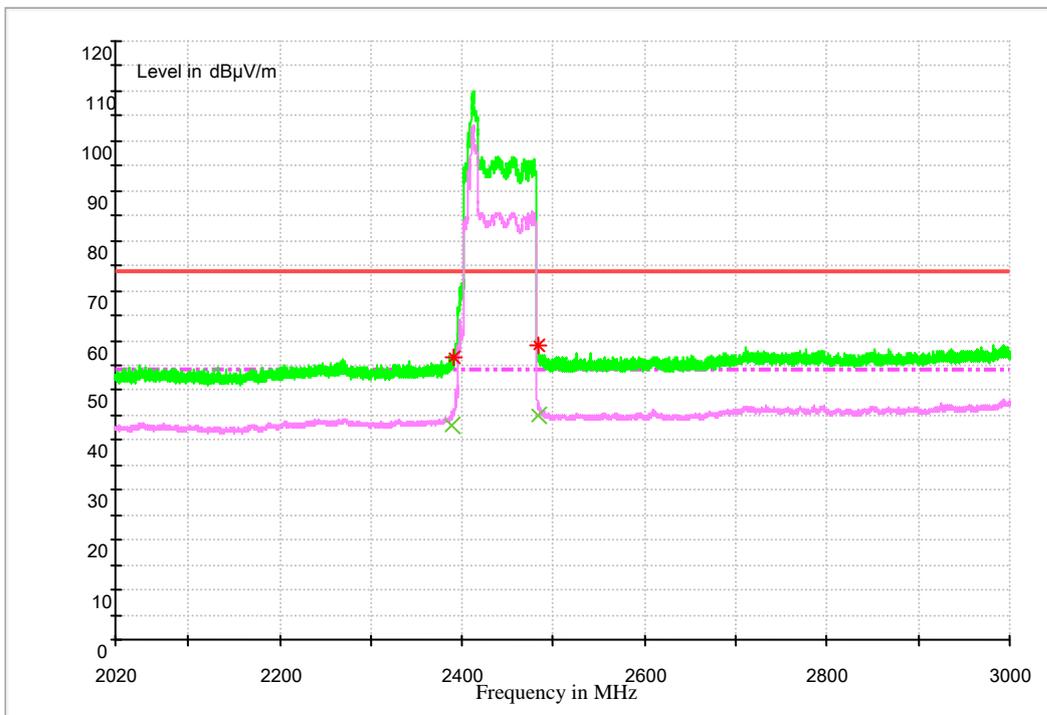


**Part 4: Testing Range of “2.3GHz to 2.5GHz”**

- 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 dBμV/m) and Average Limit (54 dBμV/m).
- Note 3: The peak spike exceeds the limit line is EUT’s operating frequency.

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

**Channel 1**



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

MEASUREMENT RESULT: PK Detector

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