



# Appendix A.1: DTS (6 dB) Bandwidth



## 1 Result Table

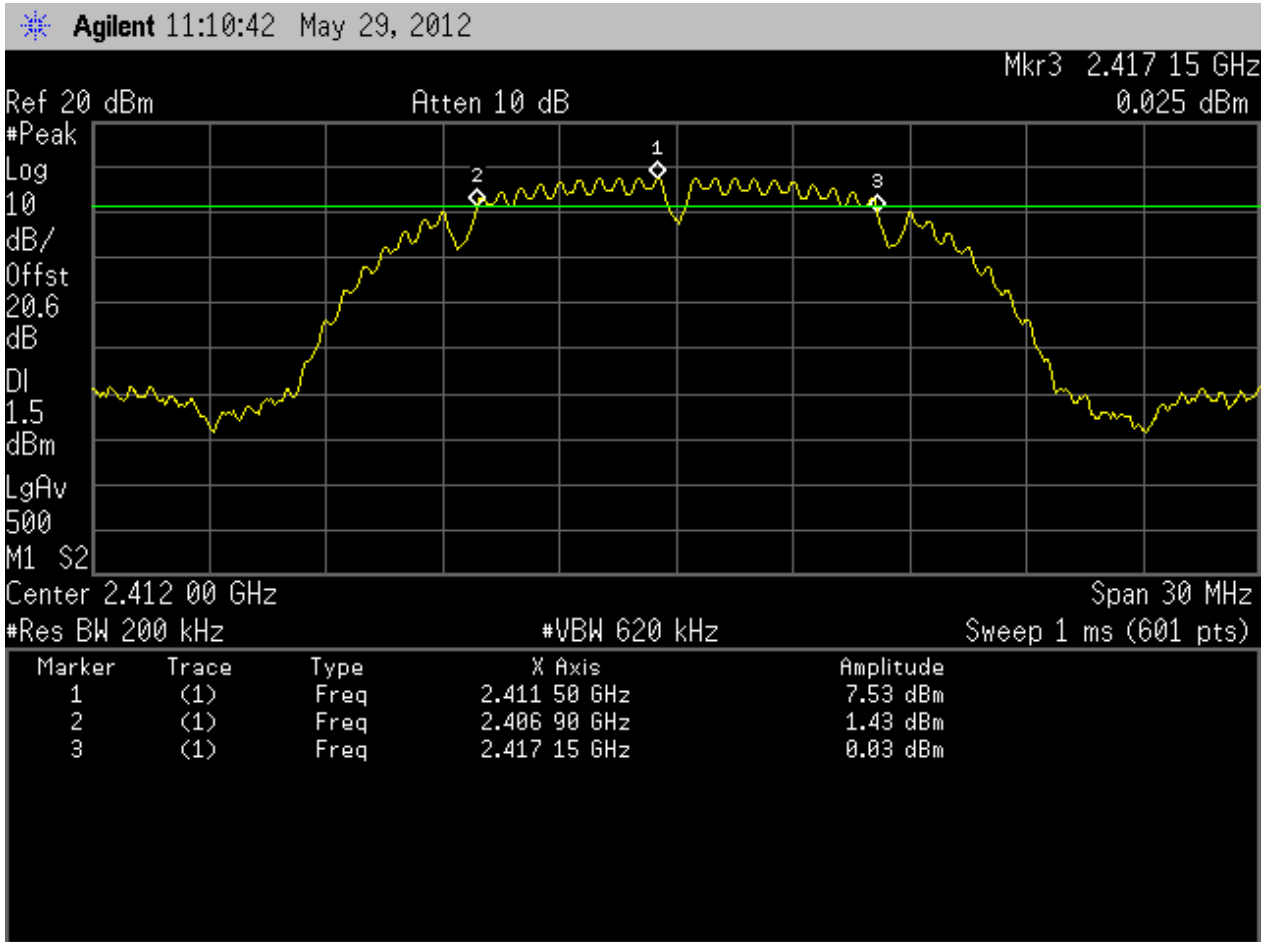
NOTE 1: In this document, the DTS6dBBW refers to the measured “DTS (6 dB) Bandwidth” value. In this Appendix, the fc(DTS6dBBW) refers to the center frequency of the DTS6dBBW. The introduction of the fc(DTS6dBBW) is due to the FCC OET KDB 558074 measurement procedure for “Fundamental Emission Output Power - Maximum Peak Conducted Output Power”, which uses the DTS6dBBW band edges.

NOTE 2: 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.

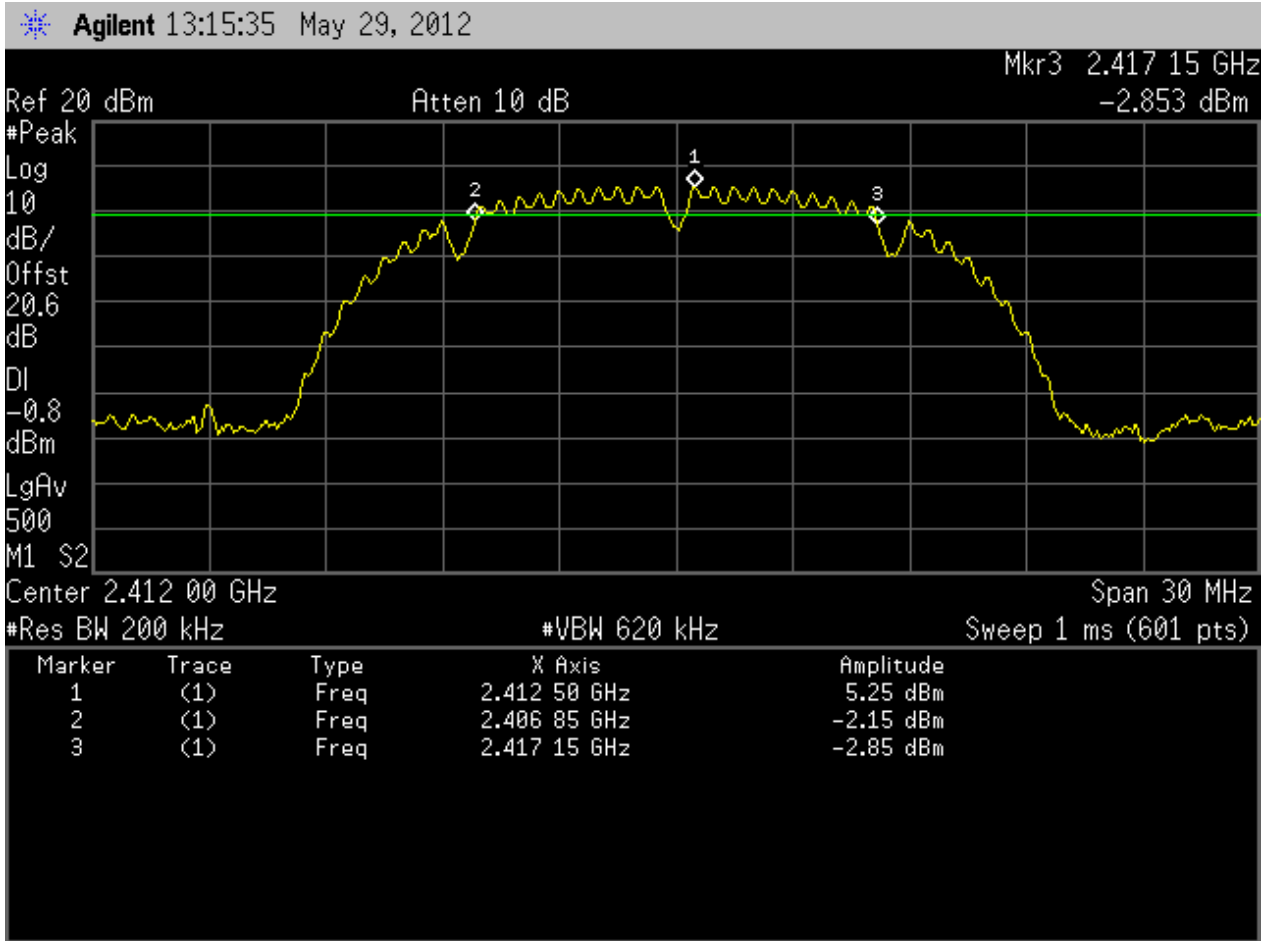
EUT Conf.	DTS6dBBW, Ant 1 [MHz]	fc(DTS6dBBW), Ant 1 [MHz]	DTS6dBBW, Ant 2 [MHz]	fc(DTS6dBBW), Ant 2 [MHz]	Verdict
11B/1_B@1	10.25	2412.025	---	---	Pass
11B/1_B@2	---	---	10.3	2412	Pass
11B/1_M@1	10.3	2437	---	---	Pass
11B/1_M@2	---	---	10.25	2436.975	Pass
11B/1_T@1	10.3	2462	---	---	Pass
11B/1_T@2	---	---	10.25	2461.975	Pass
11G/6_B@1	16.55	2411.975	---	---	Pass
11G/6_B@2	---	---	16.45	2411.975	Pass
11G/6_M@1	16.55	2436.975	---	---	Pass
11G/6_M@2	---	---	16.45	2436.95	Pass
11G/6_T@1	16.5	2462	---	---	Pass
11G/6_T@2	---	---	16.5	2462	Pass
11N20/0_B@1	17.75	2411.975	---	---	Pass
11N20/0_B@2	---	---	17.75	2411.975	Pass
11N20/0_M@1	17.7	2437	---	---	Pass
11N20/0_M@2	---	---	17.75	2436.975	Pass
11N20/0_T@1	17.75	2461.975	---	---	Pass
11N20/0_T@2	---	---	17.75	2461.975	Pass
11N20m/8_B@1+2	17.8	2412	17.8	2412	Pass
11N20m/8_M@1+2	17.8	2437	17.8	2437	Pass
11N20m/8_T@1+2	17.8	2462.025	17.8	2461.975	Pass

## 2 Test Plot

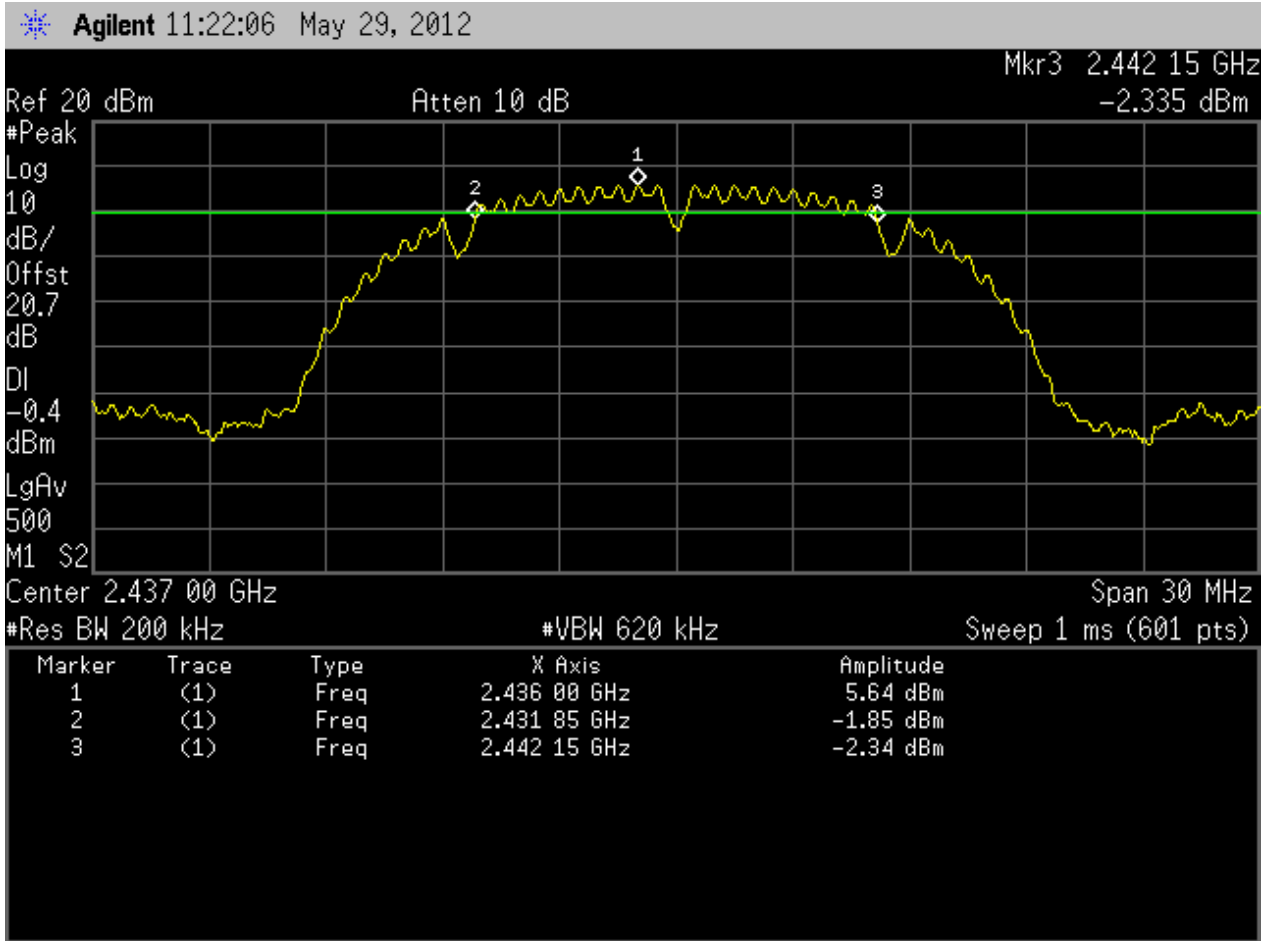
### 2.1 11B/1\_B@1



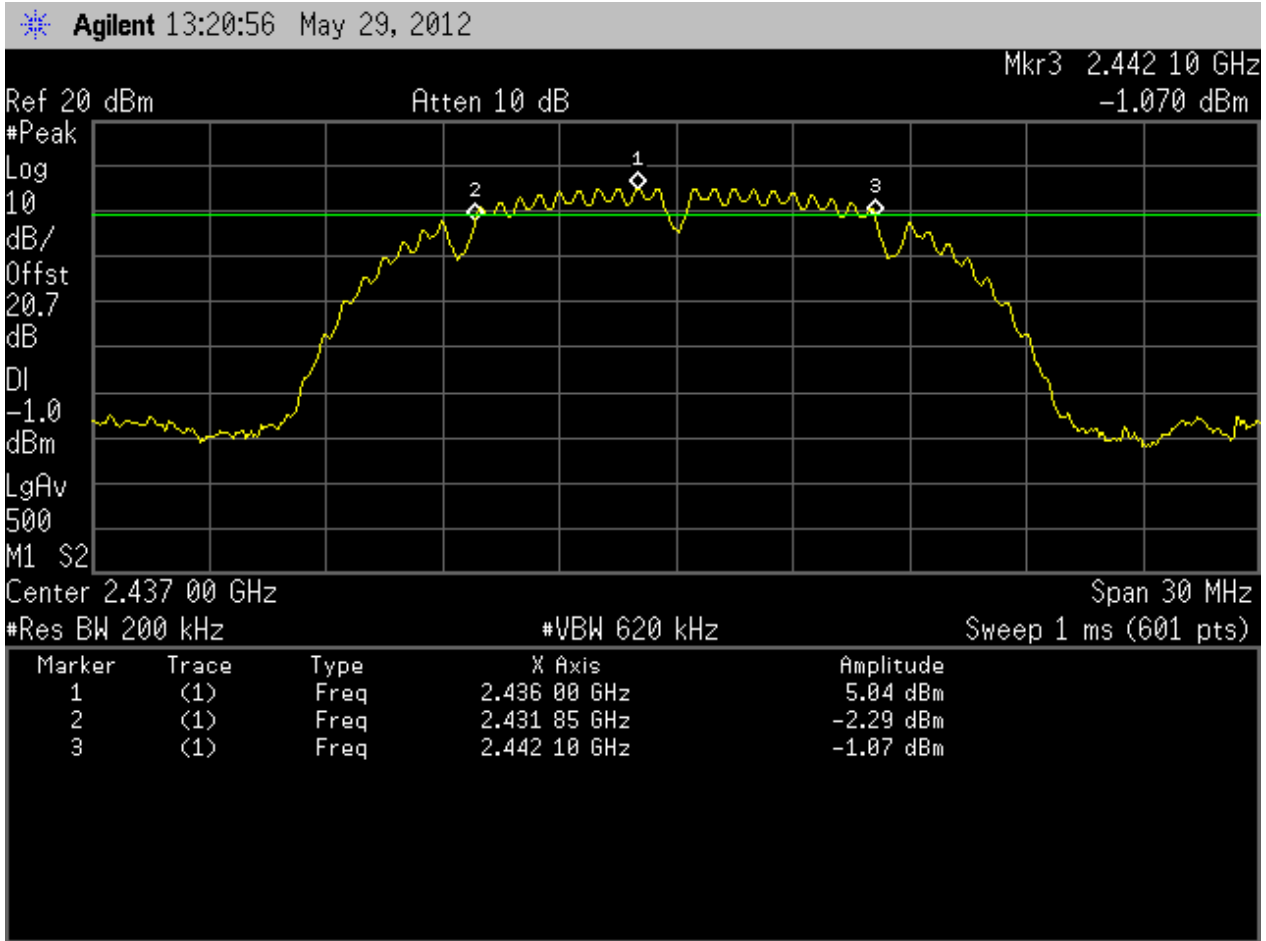
### 2.2 11B/1\_B@2



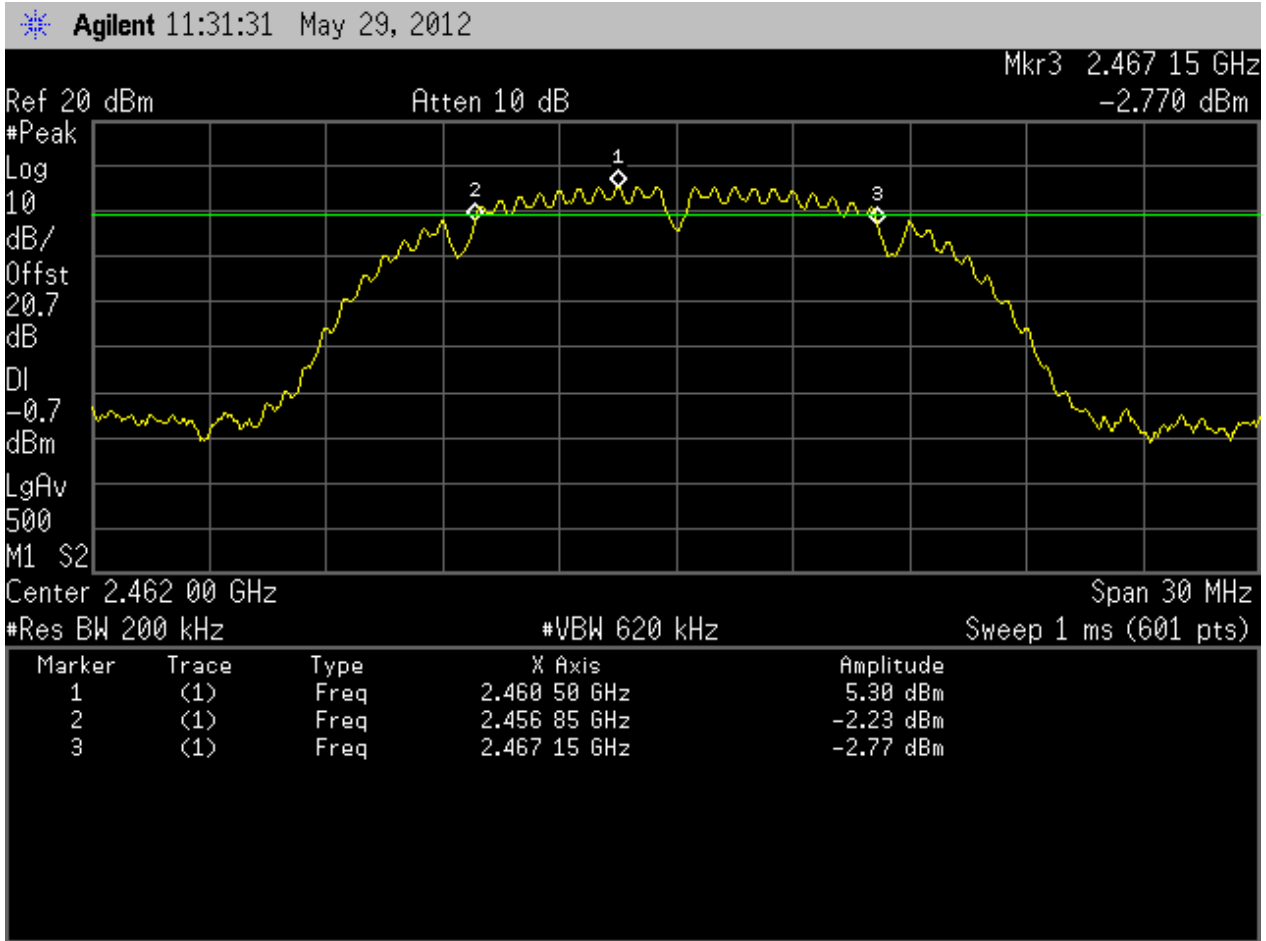
### 2.3 11B/1\_M@1



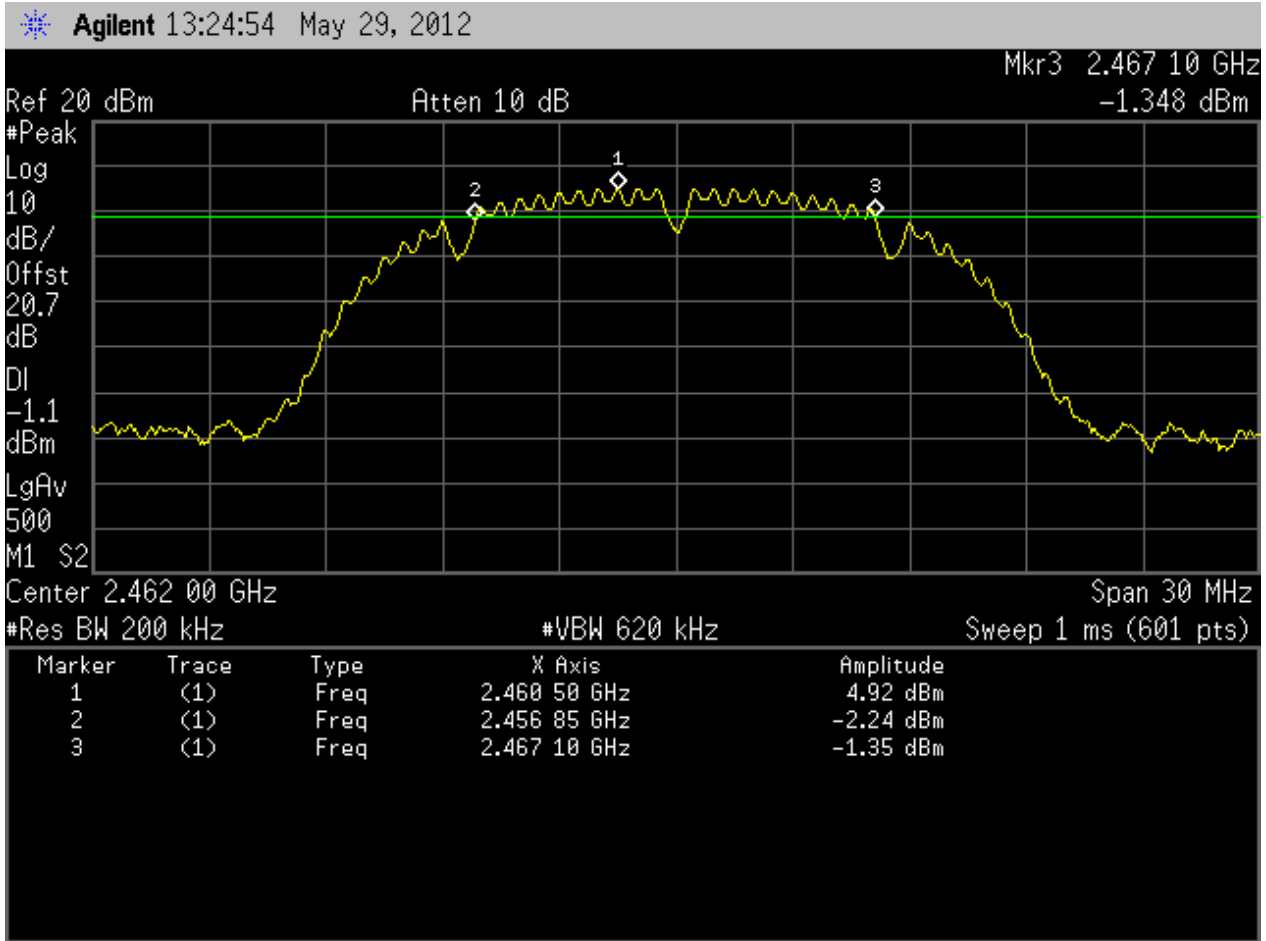
2.4 11B/1\_M@2



2.5 11B/1\_T@1

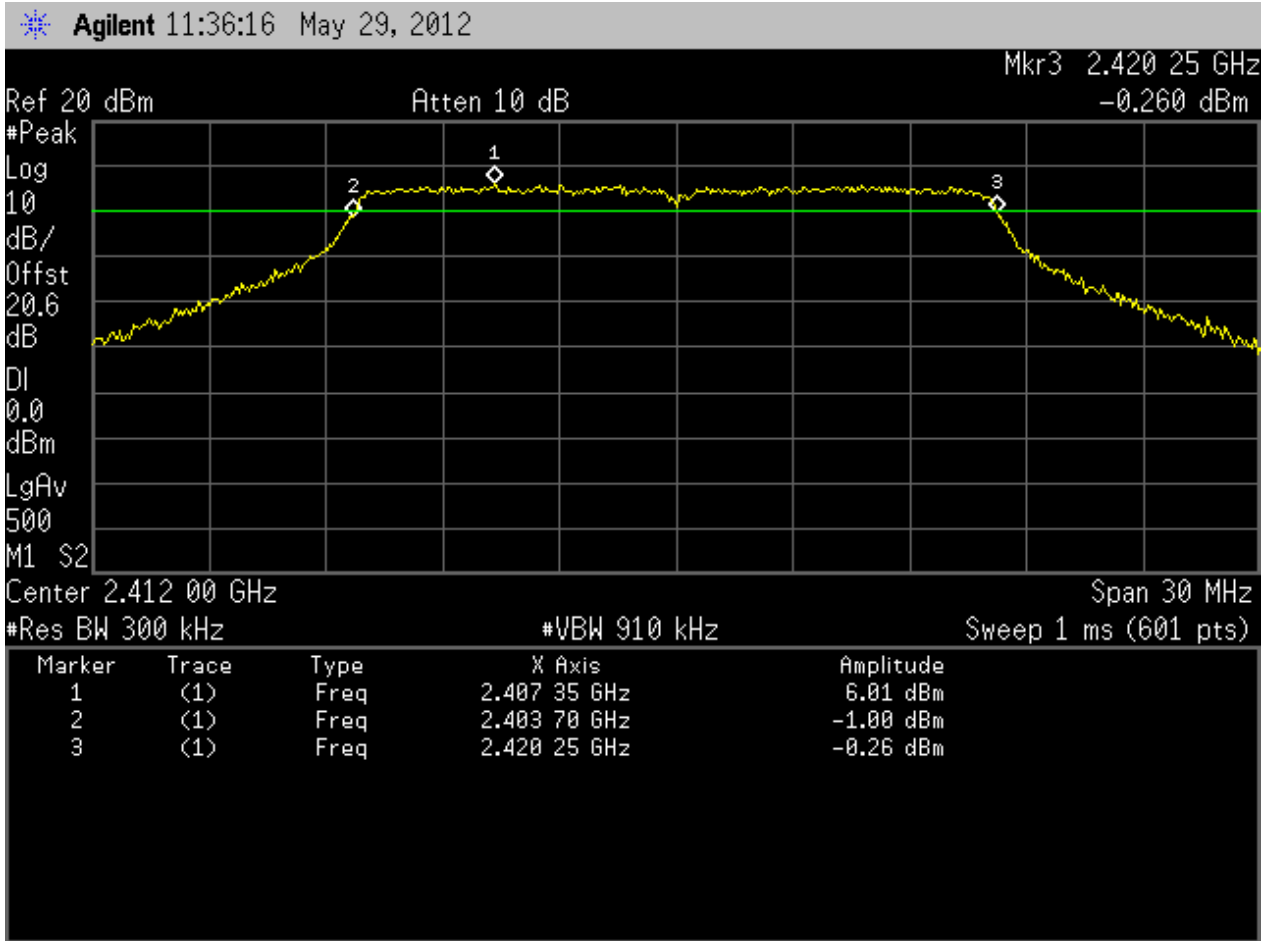


2.6 11B/1\_T@2

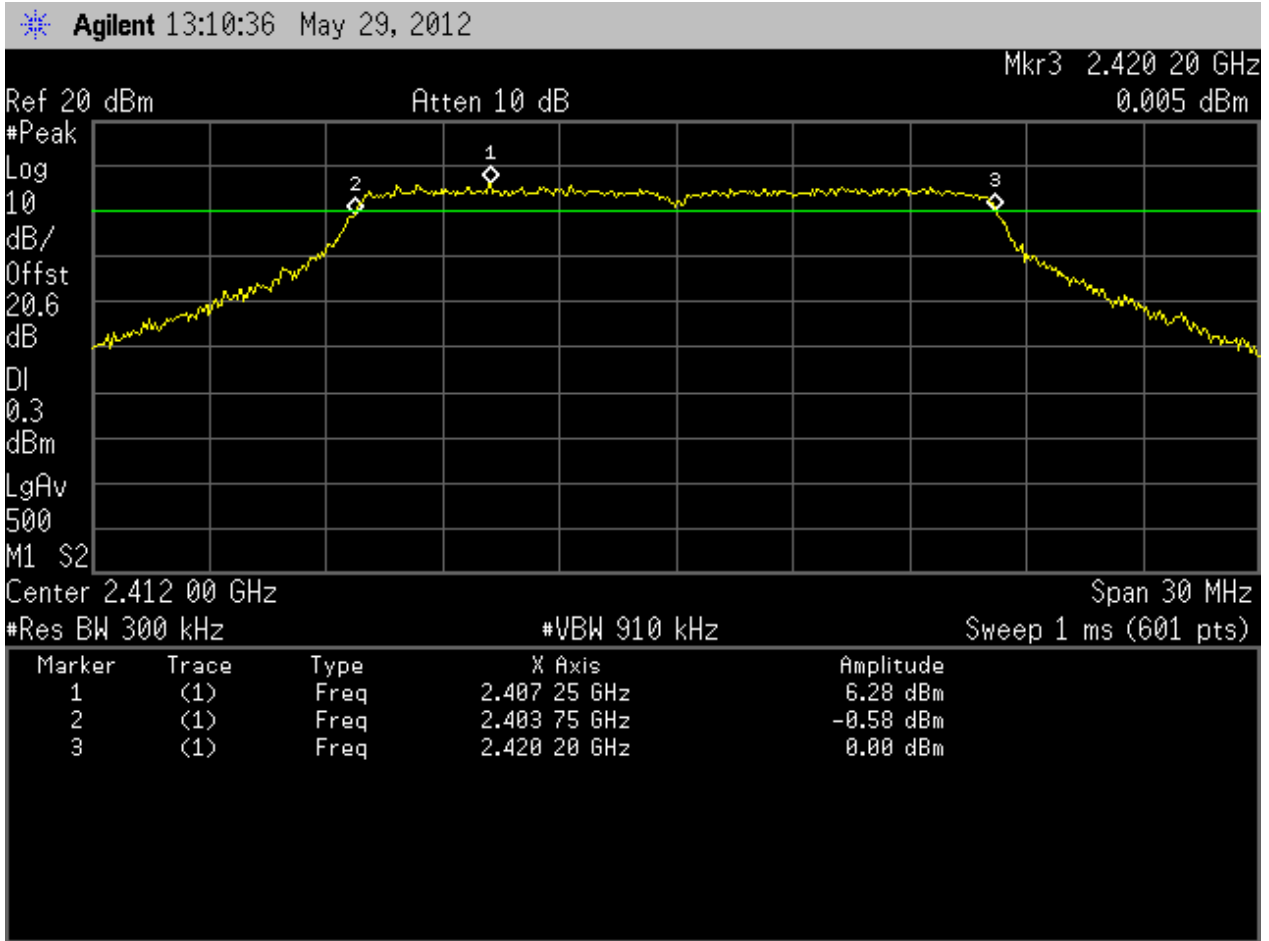


2.7 11G/6\_B@1

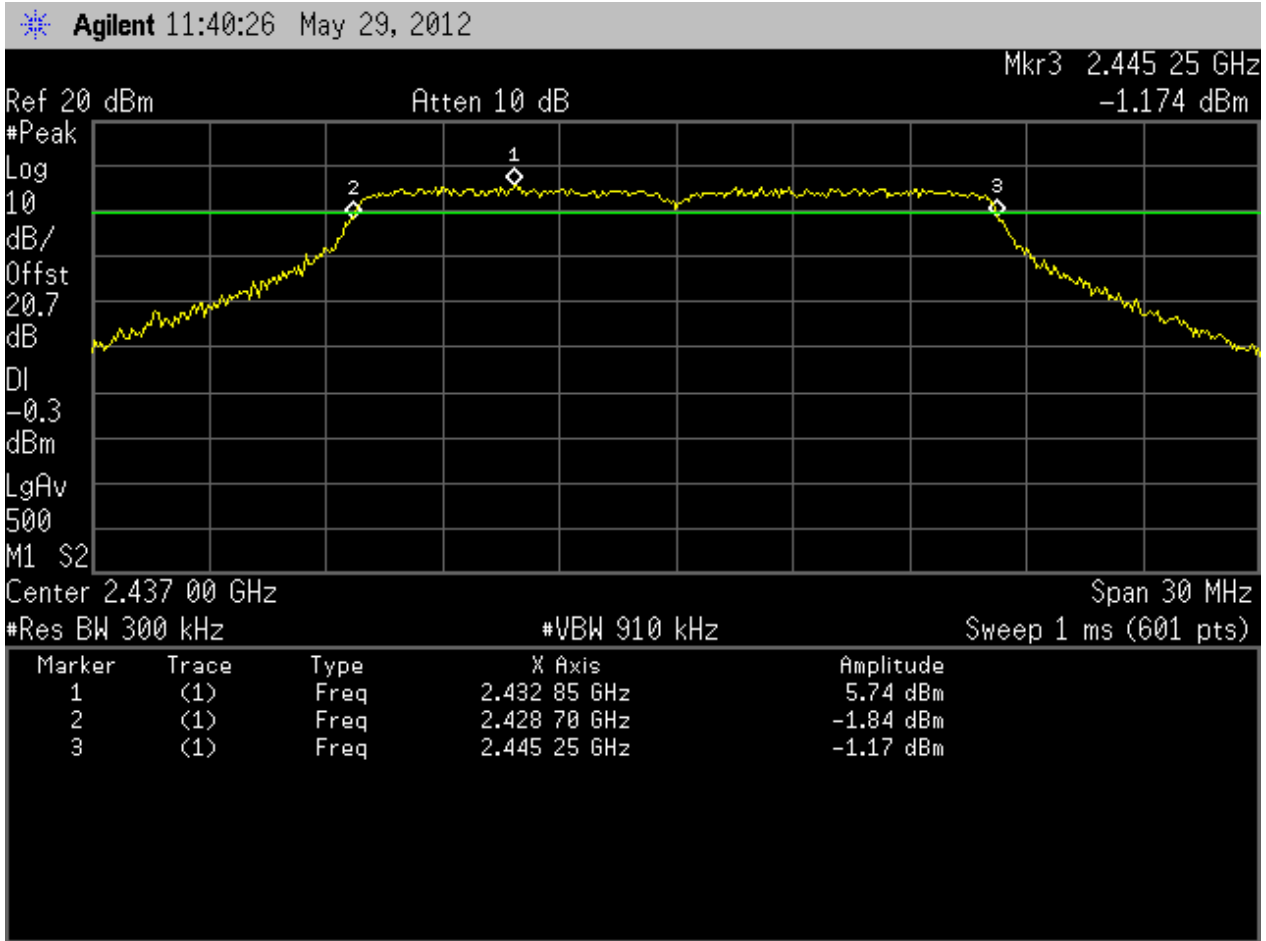




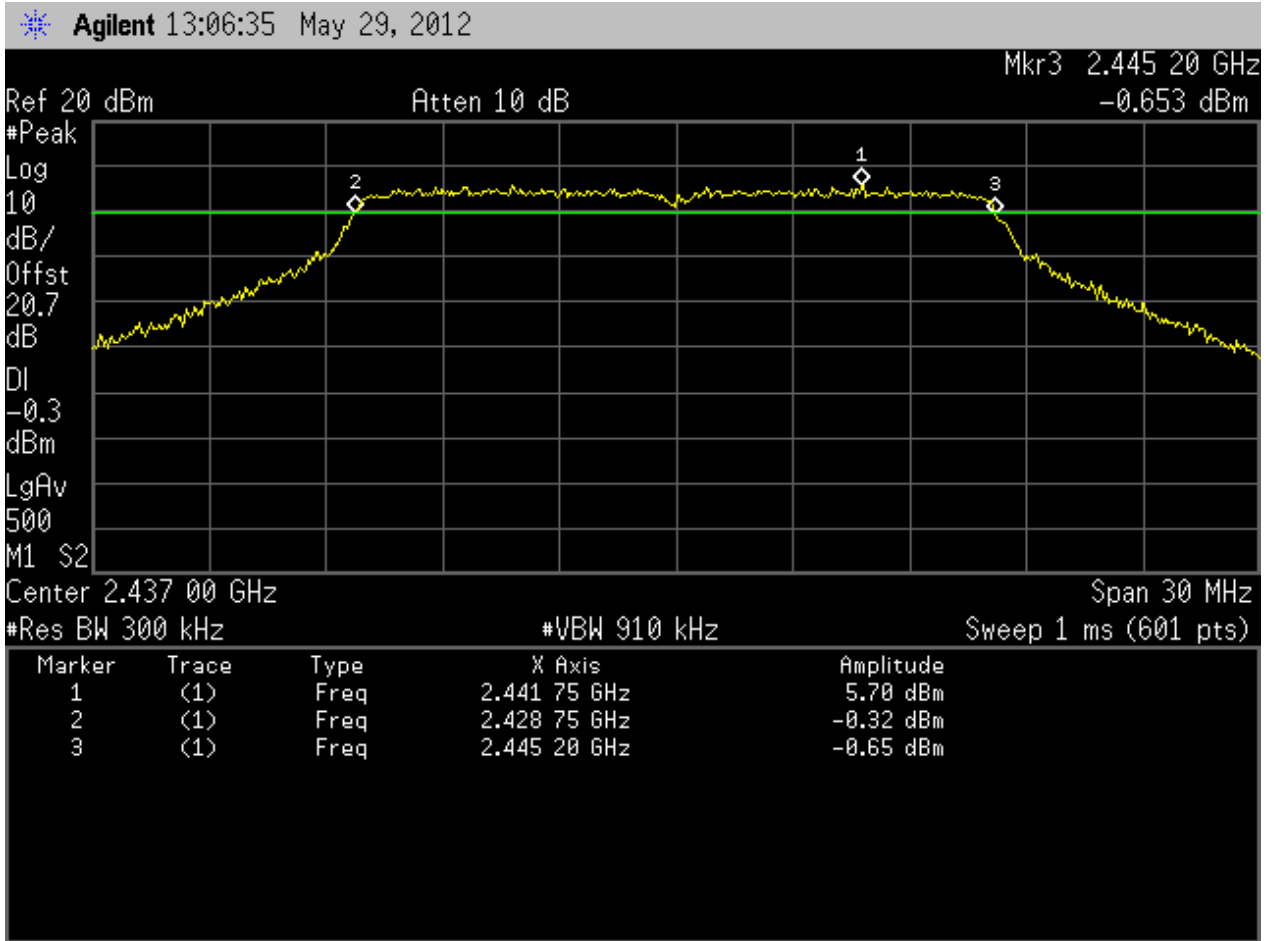
2.8 11G/6\_B@2



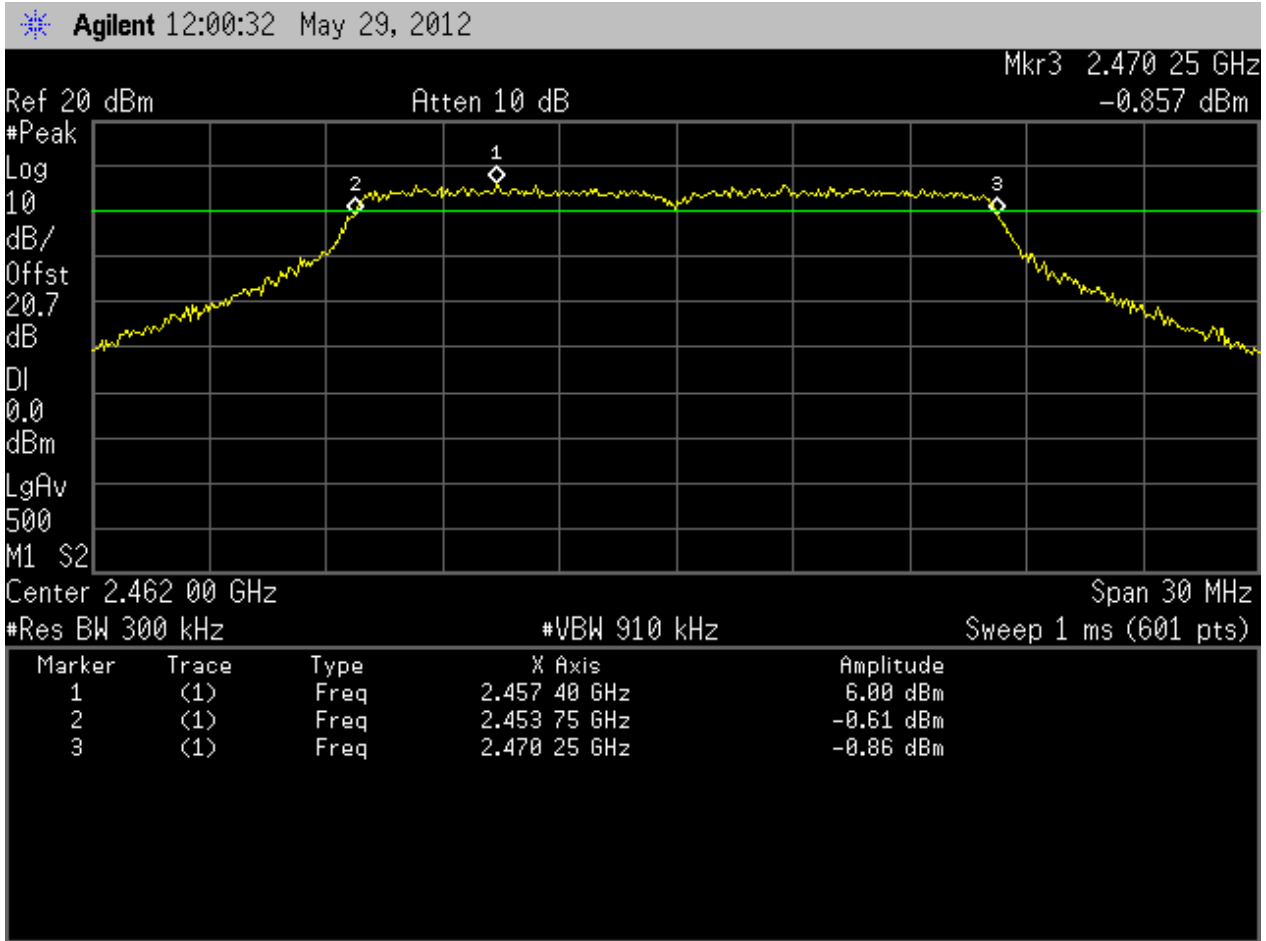
2.9 11G/6\_M@1



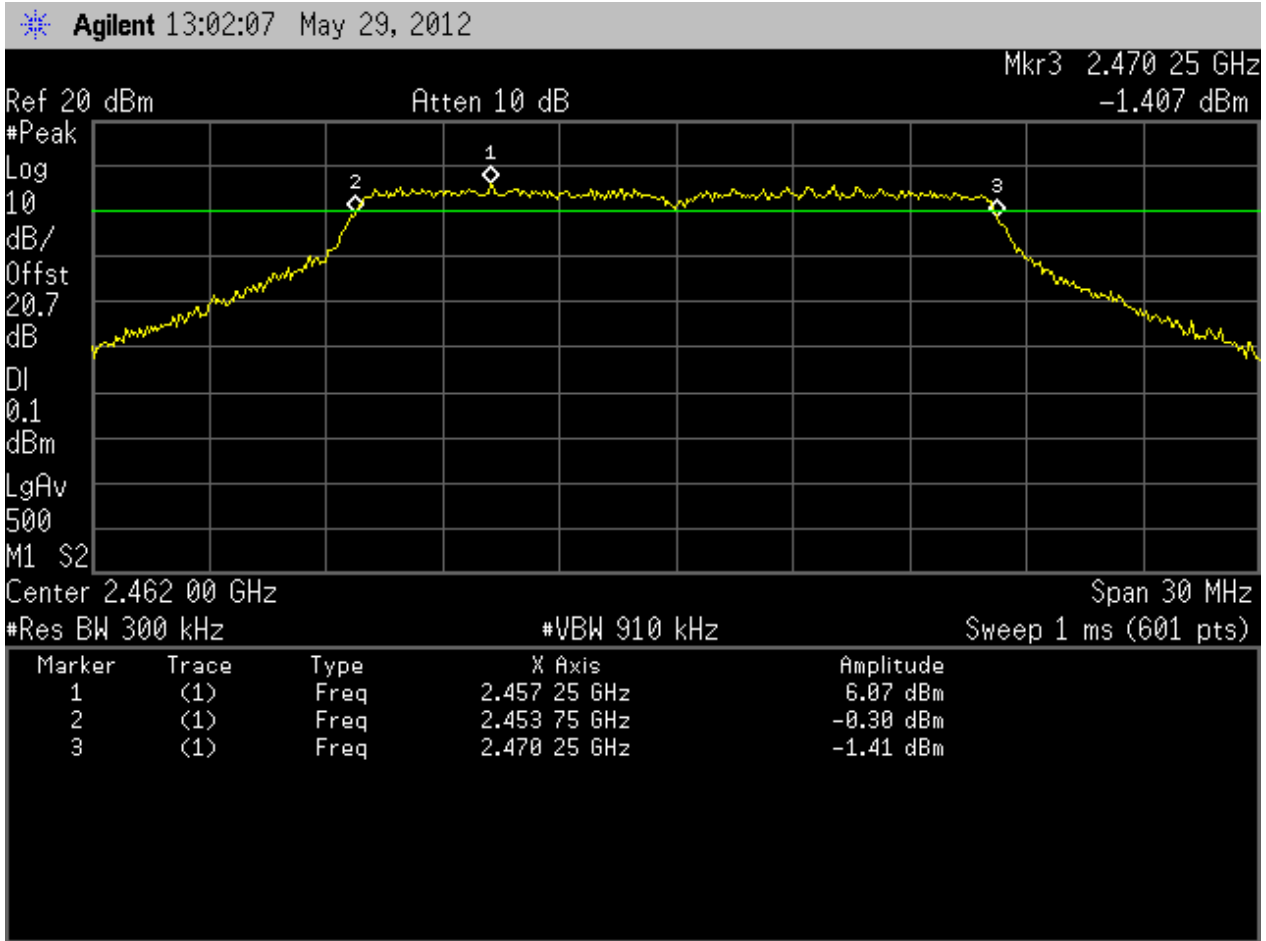
2.1011G/6\_M@2



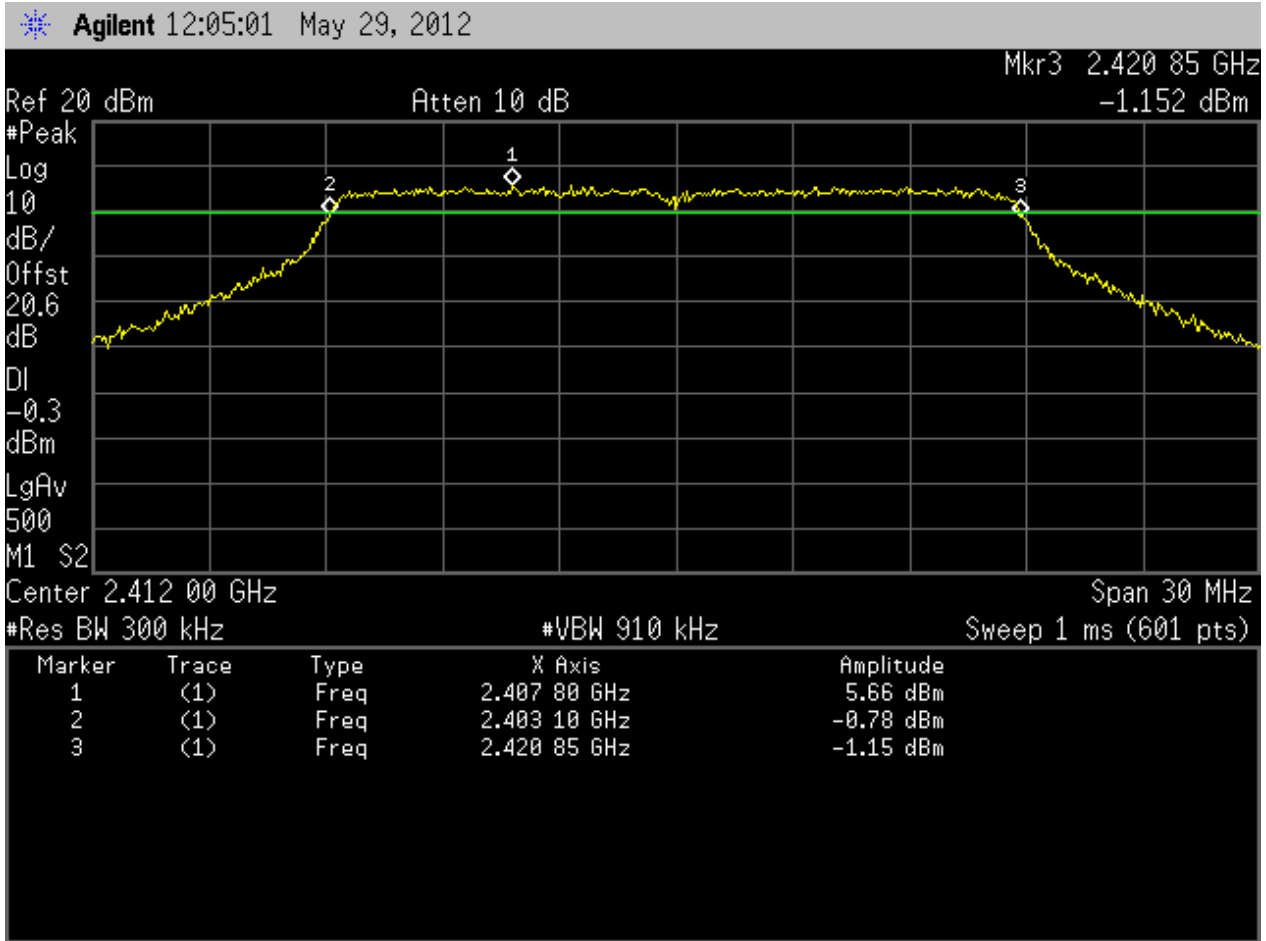
2.1111G/6\_T@1



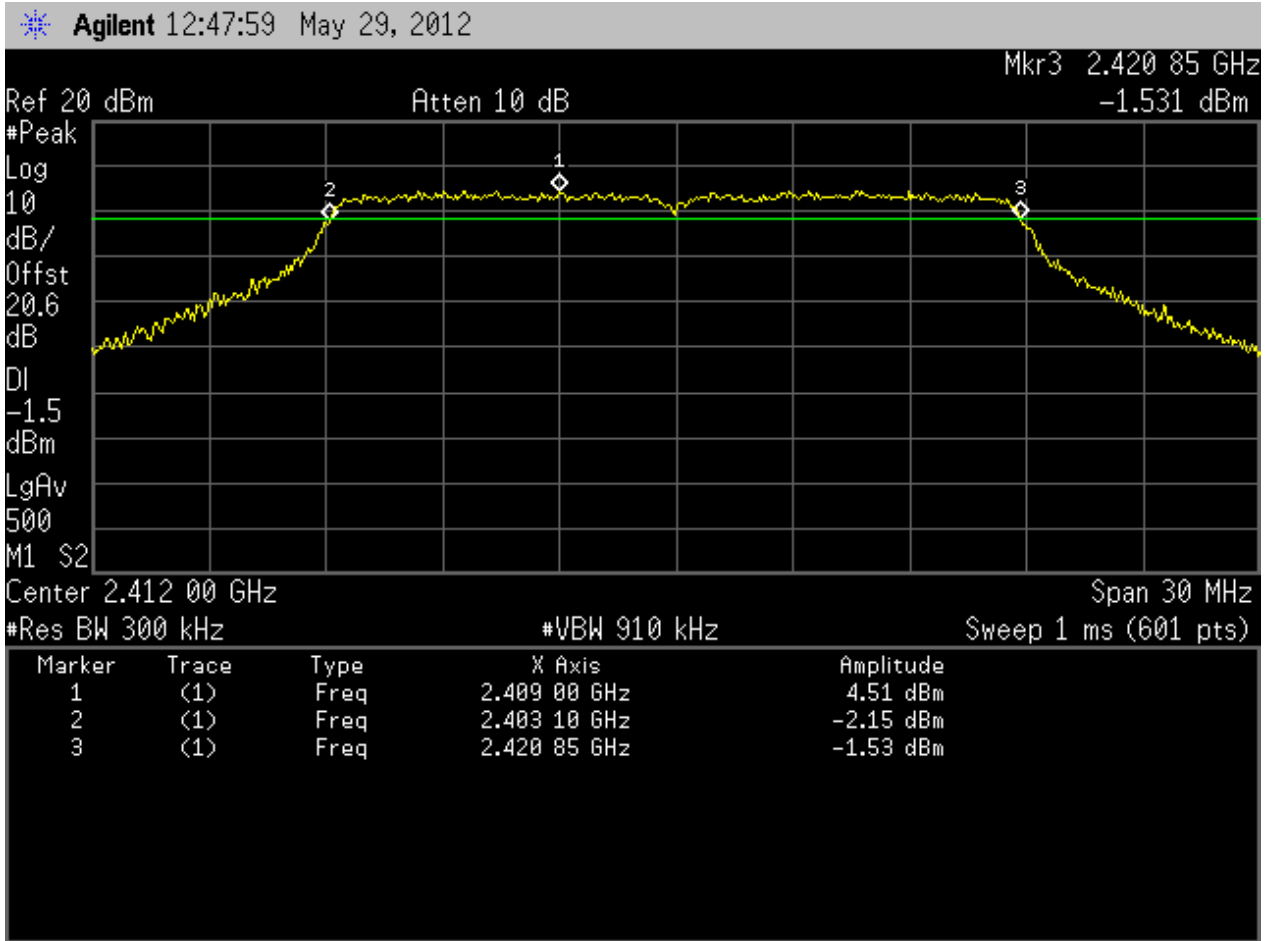
2.1211G/6\_T@2



2.1311N20/0\_B@1

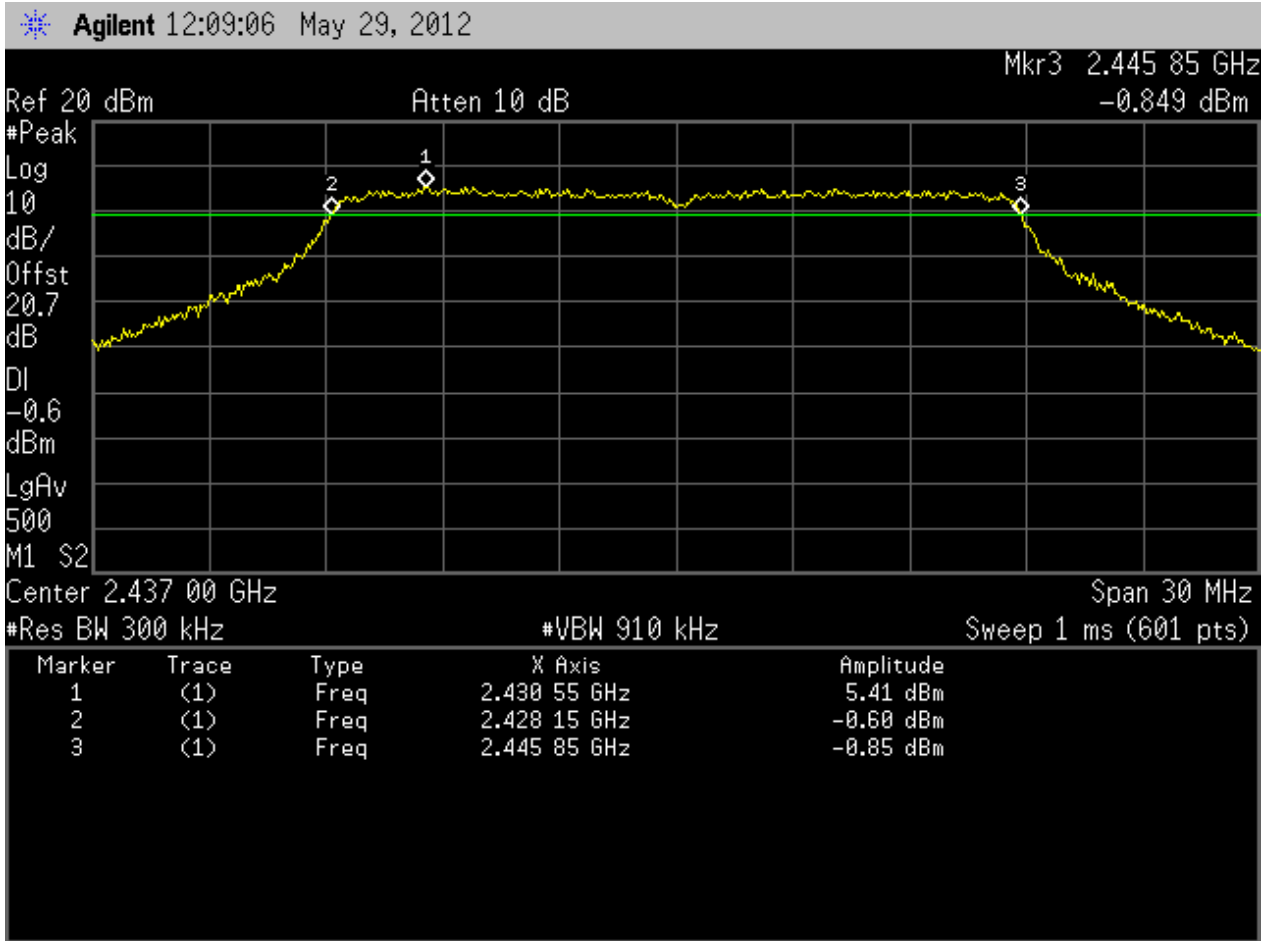


2.1411N20/0\_B@2

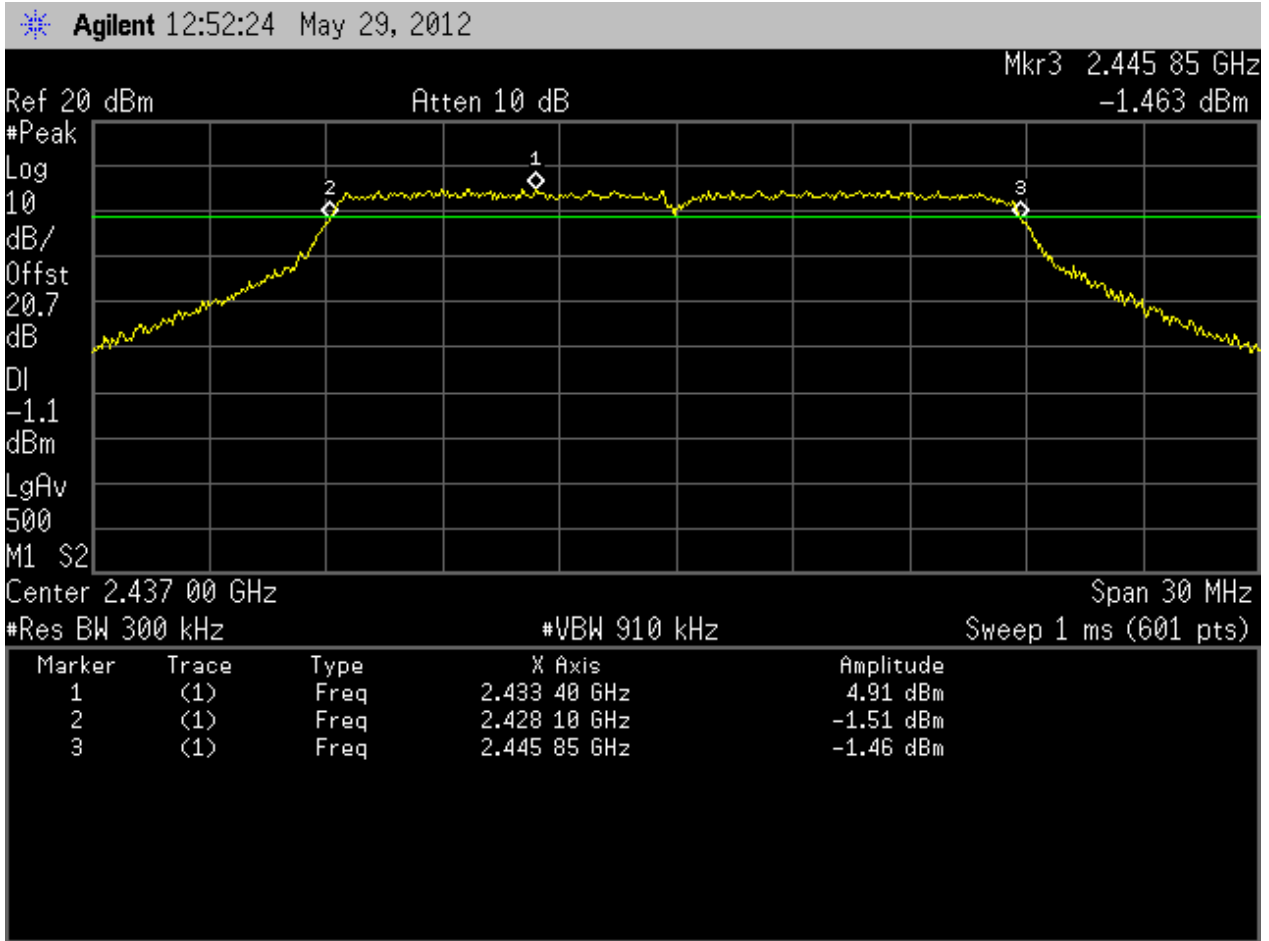


2.1511N20/0\_M@1

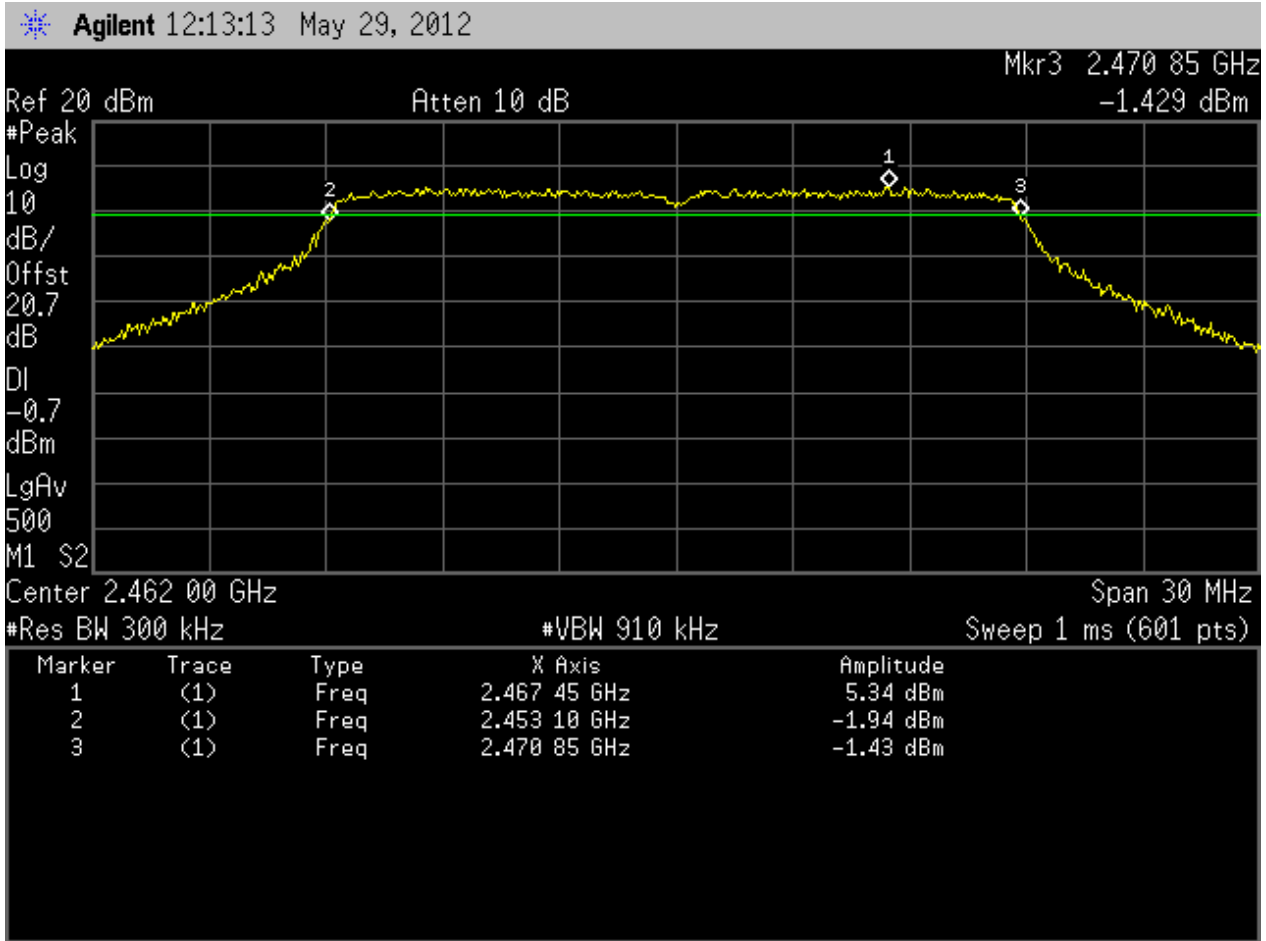




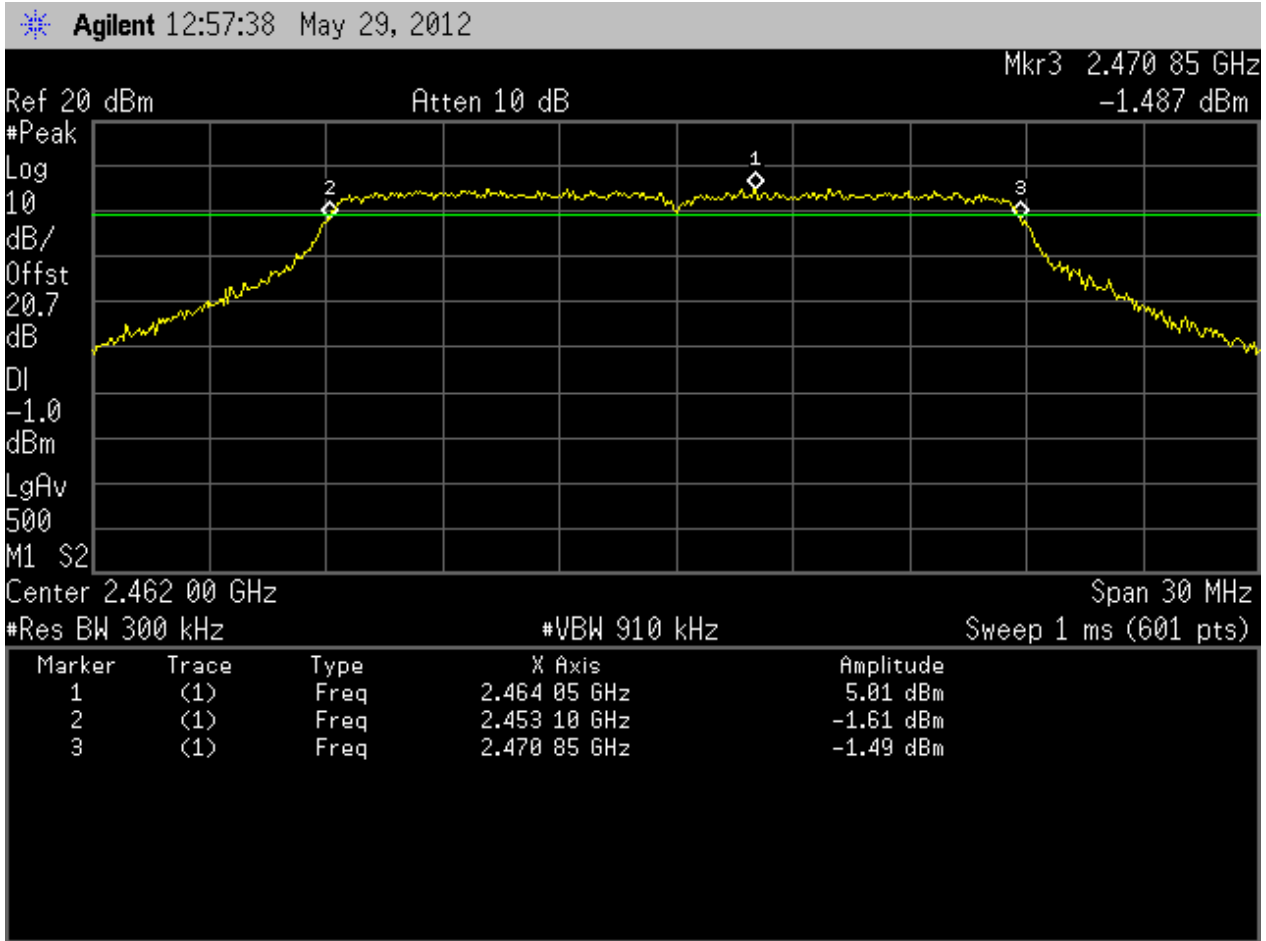
2.1611N20/0\_M@2



2.1711N20/0\_T@1

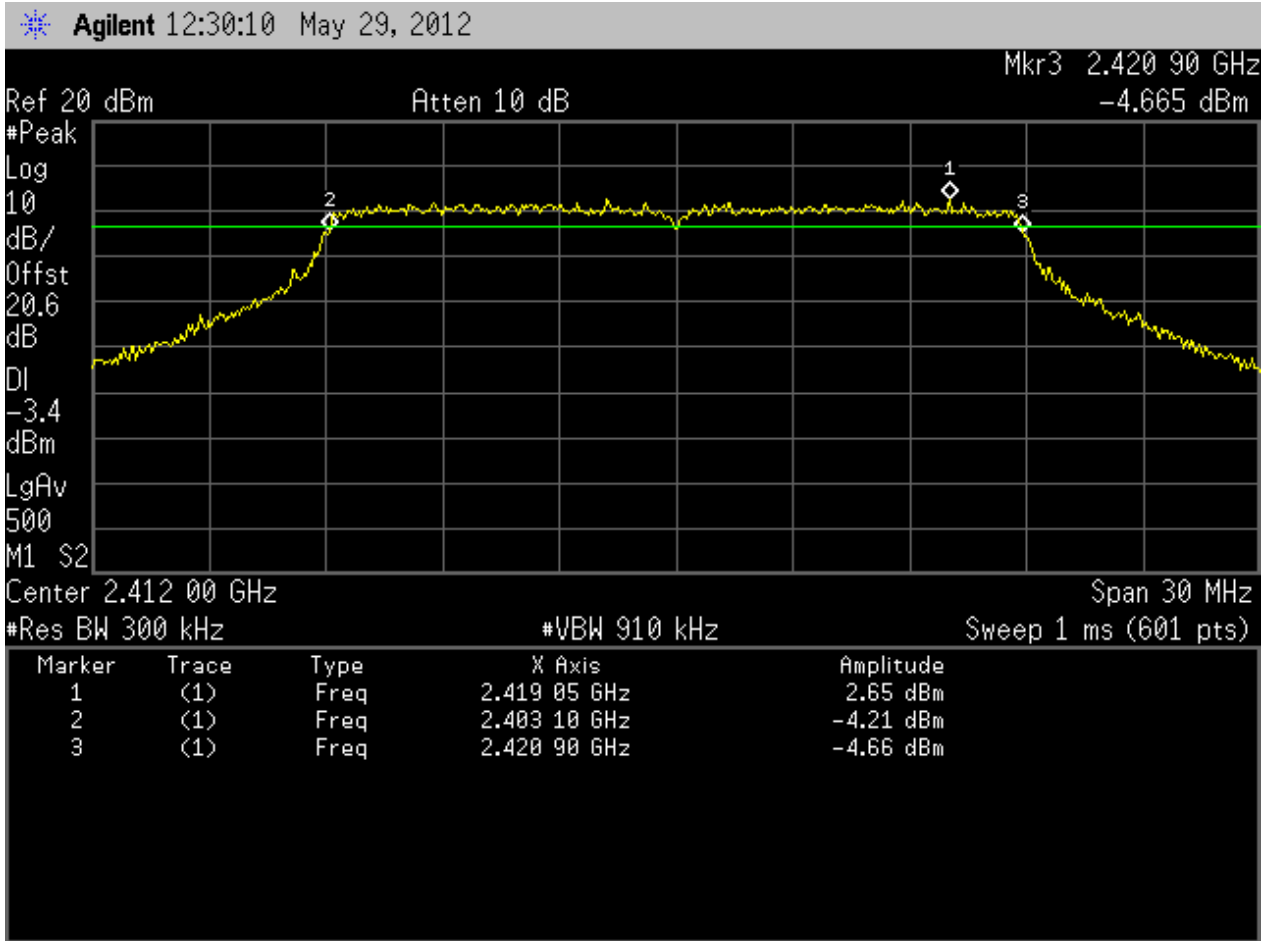


2.1811N20/0\_T@2

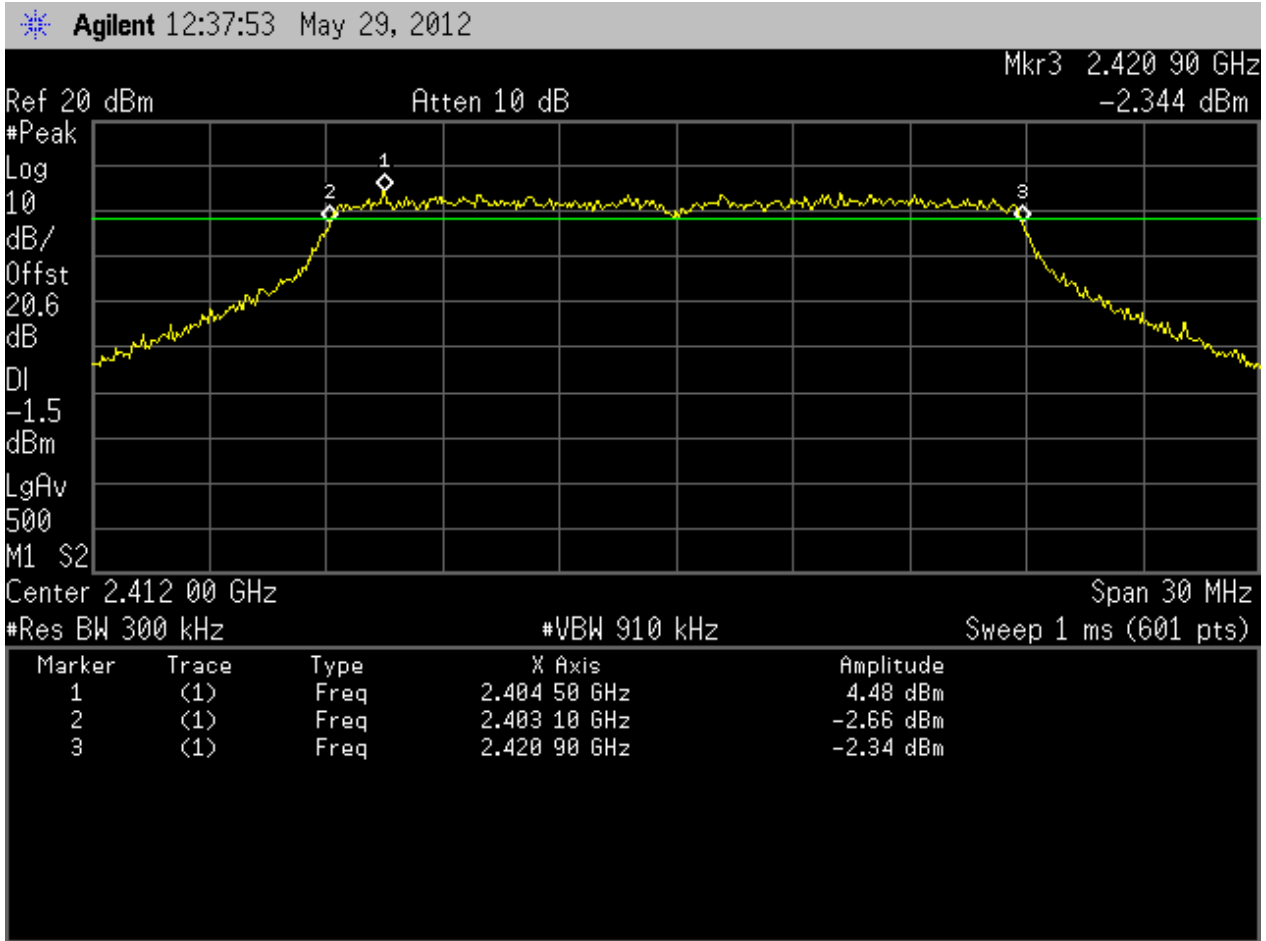


2.1911N20m/8\_B@1+2

2.19.1 Ant 1

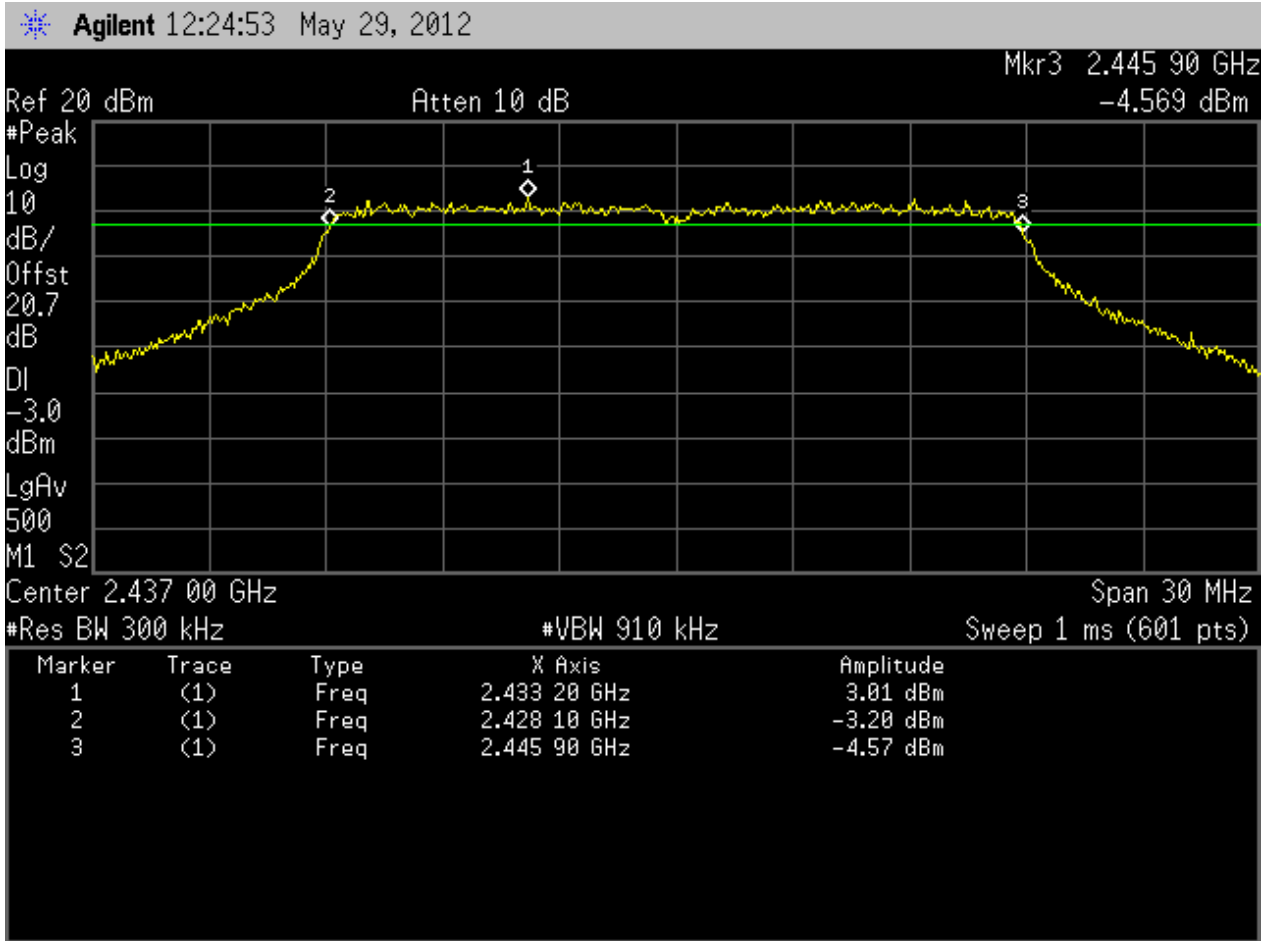


### 2.19.2 Ant 2

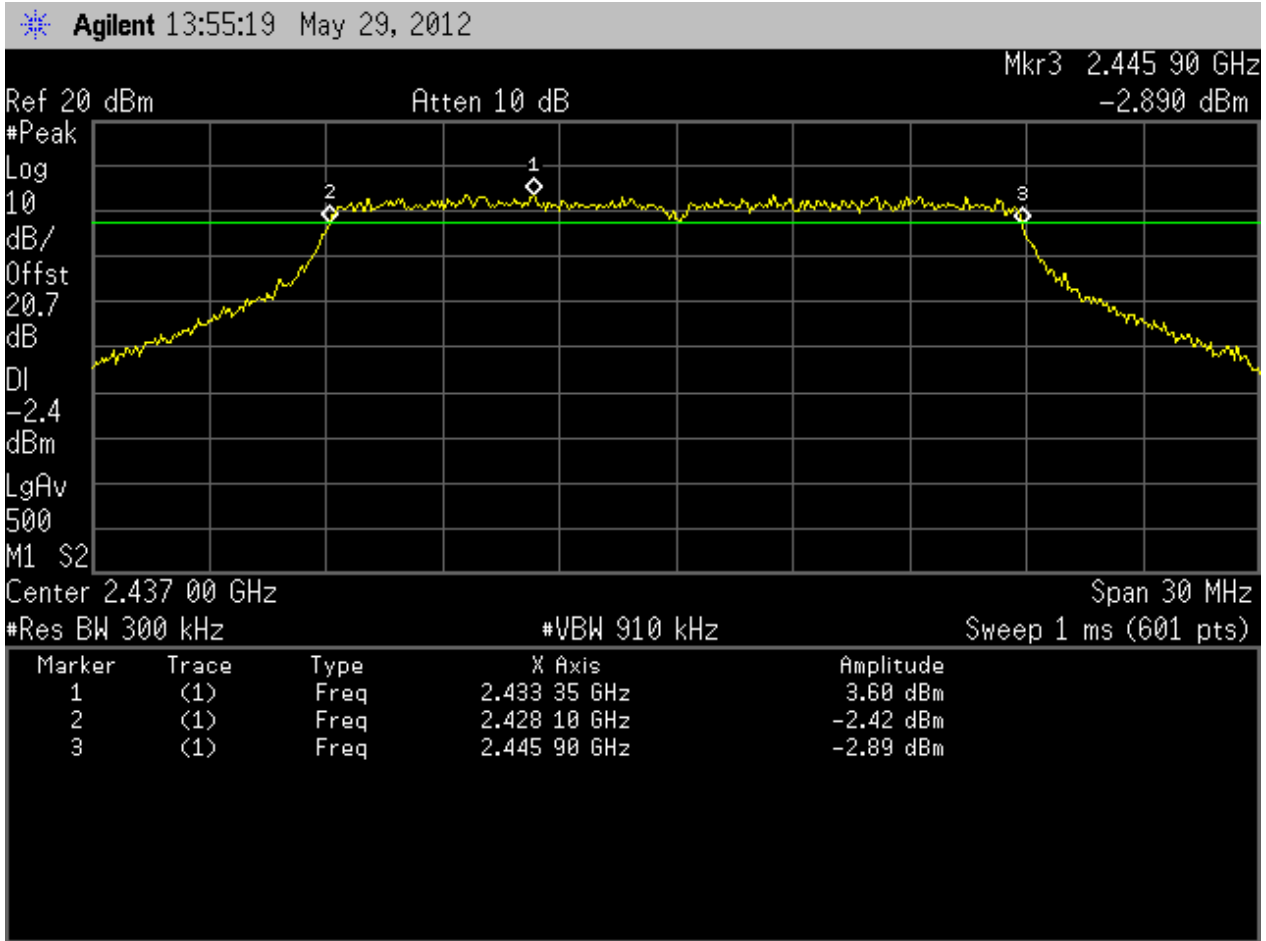


2.2011N20m/8\_M@1+2

2.20.1 Ant 1



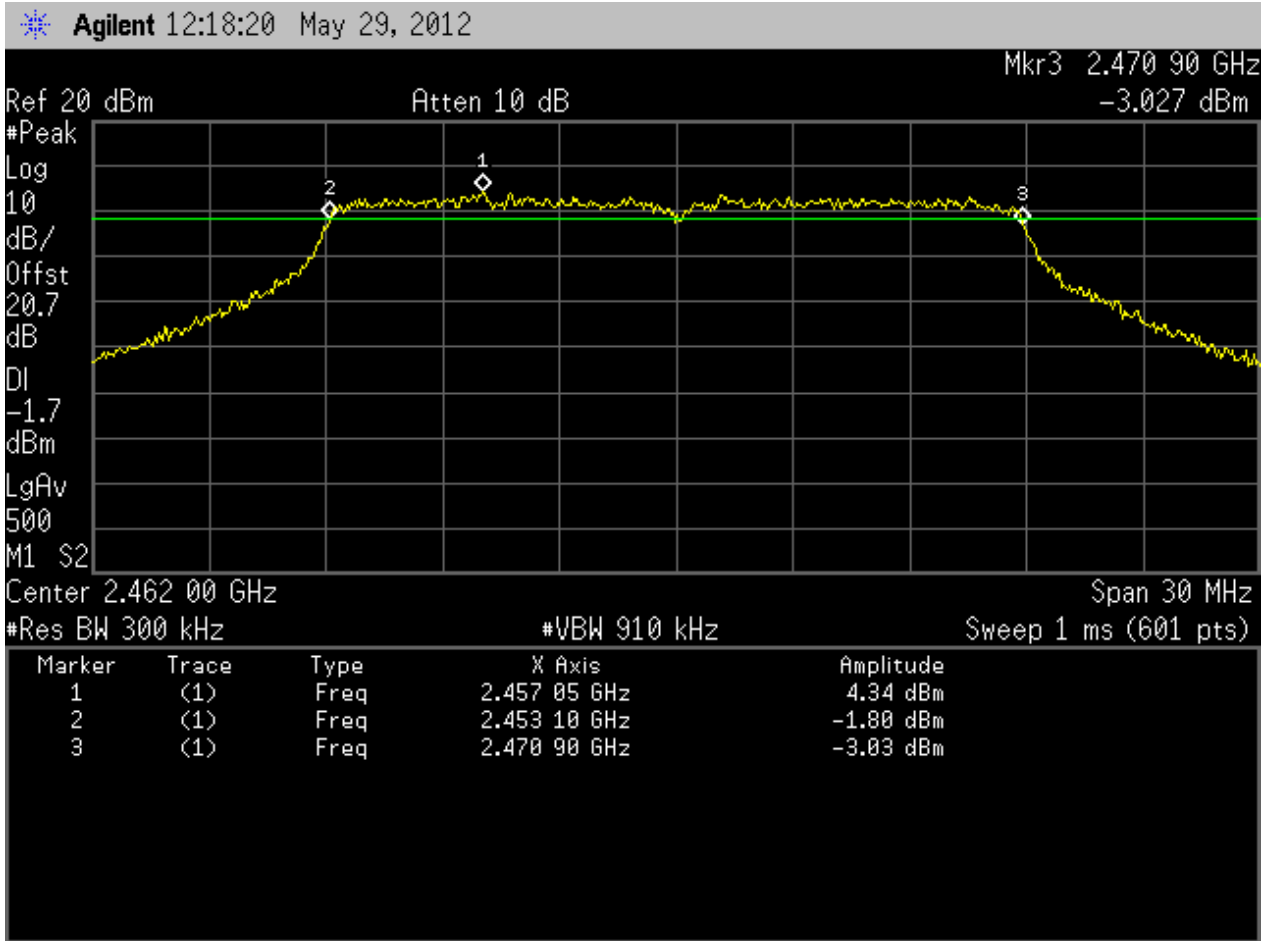
2.20.2 Ant 2



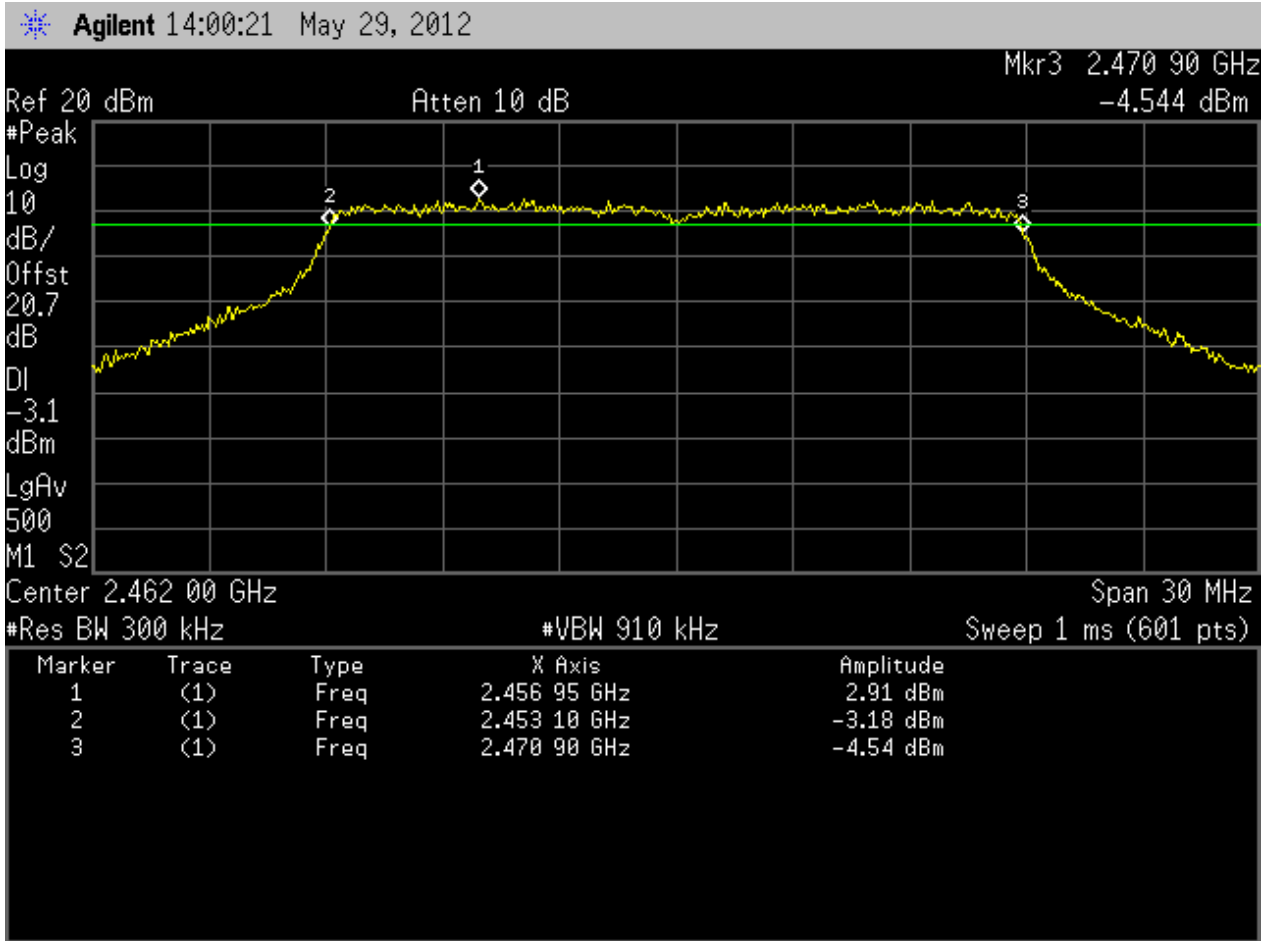
2.2111N20m/8\_T@1+2

2.21.1 Ant 1





2.21.2 Ant 2





# Appendix A.2: 99% Occupied Bandwidth



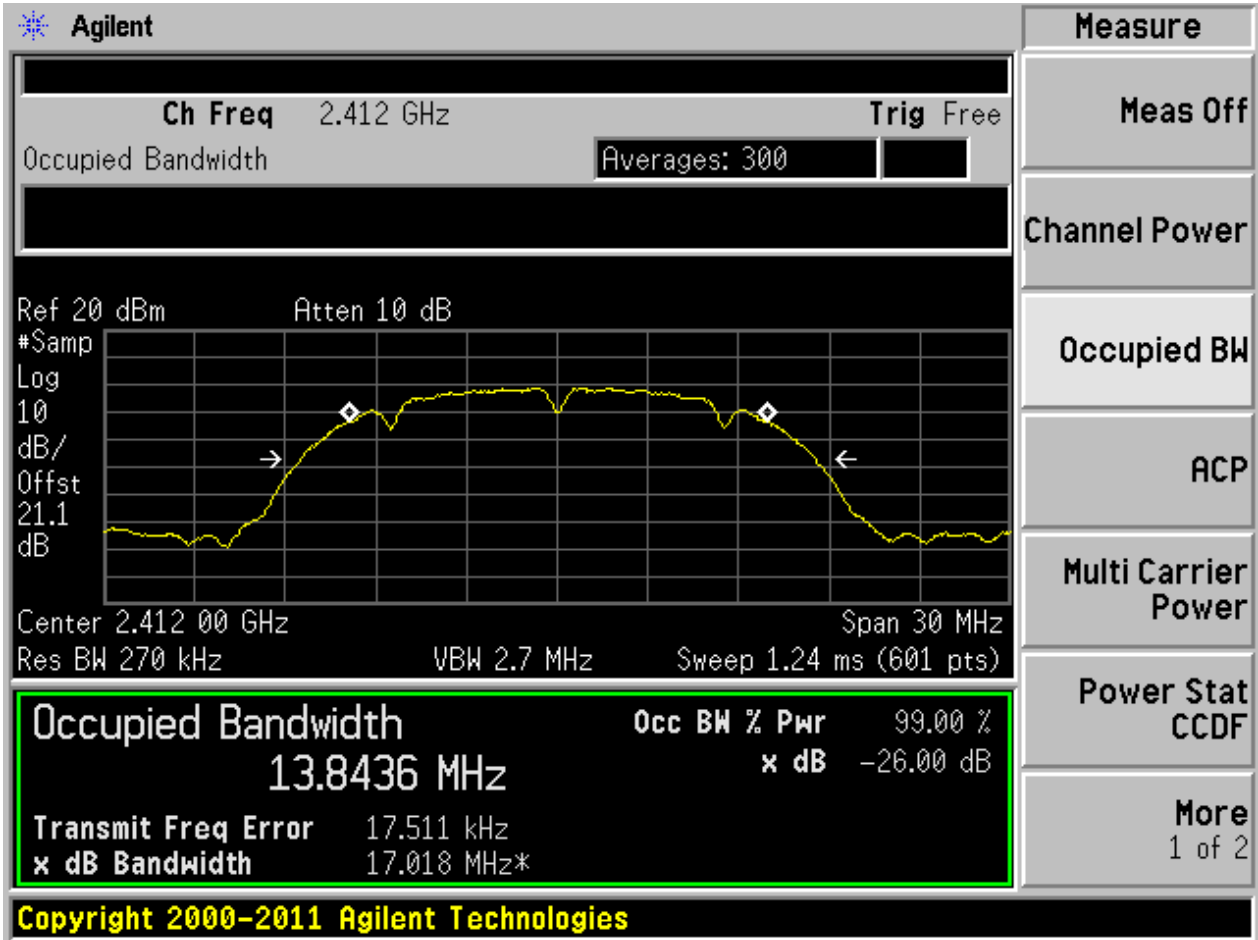
## 1 Result Table

NOTE 1: 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.

EUT Conf.	99% Occupied Bandwidth [MHz], Ant 1 [MHz]	99% Occupied Bandwidth [MHz], Ant 2 [MHz]	Verdict
11B/1_B@1	13.8436	---	Pass
11B/1_B@2	---	13.8070	Pass
11B/1_M@1	13.8072	---	Pass
11B/1_M@2	---	13.7989	Pass
11B/1_T@1	13.7725	---	Pass
11B/1_T@2	---	13.7856	Pass
11G/6_B@1	16.4734	---	Pass
11G/6_B@2	---	16.4734	Pass
11G/6_M@1	16.4741	---	Pass
11G/6_M@2	---	16.4826	Pass
11G/6_T@1	16.4756	---	Pass
11G/6_T@2	---	16.4775	Pass
11N20/0_B@1	17.6757	---	Pass
11N20/0_B@2	---	17.6811	Pass
11N20/0_M@1	17.6735	---	Pass
11N20/0_M@2	---	17.6751	Pass
11N20/0_T@1	17.6802	---	Pass
11N20/0_T@2	---	17.6770	Pass
11N20m/8_B@1+2	17.6742	---	Pass
11N20m/8_B@1+2	---	17.6806	Pass
11N20m/8_M@1+2	17.6747	---	Pass
11N20m/8_M@1+2	---	17.6721	Pass
11N20m/8_T@1+2	17.6692	---	Pass
11N20m/8_T@1+2	---	17.6661	Pass

## 2 Test Plot

### 2.1 11B/1\_B@1



2.2 11B/1\_B@2

Agilent		Measure
Ch Freq 2.412 GHz Trig Free Occupied Bandwidth Averages: 300		Meas Off
		Channel Power
Occupied Bandwidth <b>13.8070 MHz</b>		Occupied BW
Transmit Freq Error 13.183 kHz x dB Bandwidth 17.003 MHz*		ACP
Occ BW % Pwr 99.00 % x dB -26.00 dB		Multi Carrier Power
<b>Copyright 2000-2011 Agilent Technologies</b>		Power Stat CCDF
		More 1 of 2

2.3 11B/1\_M@1

<b>Agilent</b>		<b>Measure</b>
Ch Freq 2.437 GHz Trig Free		Meas Off
Occupied Bandwidth Averages: 300		Channel Power
Ref 20 dBm Atten 10 dB #Samp Log 10 dB/Offst 21.2 dB 		Occupied BW
Center 2.437 00 GHz Span 30 MHz Res BW 270 kHz VBW 2.7 MHz Sweep 1.24 ms (601 pts)		ACP
<b>Occupied Bandwidth</b> Occ BW % Pwr 99.00 % <b>13.8072 MHz</b> x dB -26.00 dB		Multi Carrier Power
Transmit Freq Error -74.630 kHz x dB Bandwidth 17.009 MHz*		Power Stat CCDF
<b>Copyright 2000-2011 Agilent Technologies</b>		More 1 of 2

2.4 11B/1\_M@2

Agilent

**Measure**

**Ch Freq** 2.437 GHz
**Trig** Free

Occupied Bandwidth

Averages: 300

Ref 20 dBm
Atten 10 dB

#Samp 10  
 Log  
 dB/Offst 21.2 dB

Center 2.437 00 GHz
Span 30 MHz

Res BW 270 kHz
VBW 2.7 MHz
Sweep 1.24 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
13.7989 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	432.693 Hz	
<b>x dB Bandwidth</b>	17.034 MHz*	

<b>Power Stat</b>
CCDF
<b>More</b>
1 of 2

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2.5 11B/1\_T@1

<b>Agilent</b>		<b>Measure</b>	
<b>Ch Freq</b> 2.462 GHz		<b>Trig</b> Free	
<b>Occupied Bandwidth</b>		<b>Averages:</b> 300	
		<b>Meas Off</b>	
<b>Ref</b> 20 dBm		<b>Atten</b> 10 dB	
<b>#Samp</b> 10		<b>Log</b>	
<b>dB/Offst</b> 21.2 dB		<b>Occupied BW</b>	
<b>Center</b> 2.462 00 GHz		<b>Span</b> 30 MHz	
<b>Res BW</b> 270 kHz		<b>VBW</b> 2.7 MHz	
<b>Sweep</b> 1.24 ms (601 pts)		<b>ACP</b>	
<b>Occupied Bandwidth</b>		<b>Occ BW % Pwr</b> 99.00 %	
<b>13.7725 MHz</b>		<b>x dB</b> -26.00 dB	
<b>Transmit Freq Error</b> -102.629 kHz		<b>Multi Carrier Power</b>	
<b>x dB Bandwidth</b> 17.010 MHz*		<b>Power Stat CCDF</b>	
<b>Copyright 2000-2011 Agilent Technologies</b>		<b>More</b>	
		1 of 2	

2.6 11B/1\_T@2

Agilent		Measure												
Ch Freq 2.462 GHz Trig Free Occupied Bandwidth Averages: 300		Meas Off												
		Channel Power												
Center 2.462 00 GHz Span 30 MHz Res BW 270 kHz VBW 2.7 MHz Sweep 1.24 ms (601 pts)		Occupied BW												
<table border="1"> <tr> <td><b>Occupied Bandwidth</b></td> <td><b>Occ BW % Pwr</b></td> <td>99.00 %</td> </tr> <tr> <td>13.7856 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td><b>Transmit Freq Error</b></td> <td></td> <td>-44.222 kHz</td> </tr> <tr> <td><b>x dB Bandwidth</b></td> <td></td> <td>16.974 MHz*</td> </tr> </table>		<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %	13.7856 MHz	x dB	-26.00 dB	<b>Transmit Freq Error</b>		-44.222 kHz	<b>x dB Bandwidth</b>		16.974 MHz*	ACP
<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %												
13.7856 MHz	x dB	-26.00 dB												
<b>Transmit Freq Error</b>		-44.222 kHz												
<b>x dB Bandwidth</b>		16.974 MHz*												
<b>Copyright 2000-2011 Agilent Technologies</b>		Multi Carrier Power												
		Power Stat CCDF												
		More 1 of 2												



2.7 11G/6\_B@1

**Agilent**

**Measure**

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

Occupied Bandwidth

Averages: 300

Ref 20 dBm
Atten 10 dB

#Samp 10  
 Log  
 dB/Offst 21.1 dB

Center 2.412 00 GHz
Span 30 MHz

Res BW 270 kHz
VBW 2.7 MHz
Sweep 1.24 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
16.4734 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	4.761 kHz	
<b>x dB Bandwidth</b>	20.772 MHz*	

<b>Power Stat</b>	<b>CCDF</b>
<b>More</b>	
1 of 2	

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2.8 11G/6\_B@2

**Agilent**

**Measure**

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

Occupied Bandwidth

Averages: 300

Ref 20 dBm
Atten 10 dB

#Samp  
 Log  
 10  
 dB/  
 Offst  
 21.1  
 dB

Center 2.412 00 GHz
Span 30 MHz

Res BW 270 kHz
VBW 2.7 MHz
Sweep 1.24 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
16.4734 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	6.418 kHz	
<b>x dB Bandwidth</b>	20.817 MHz*	

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Meas Off
Channel Power
Occupied BW
ACP
Multi Carrier Power
Power Stat CCDF
More 1 of 2

2.9 11G/6\_M@1

**Agilent**

**Measure**

**Ch Freq** 2.437 GHz
**Trig** Free

Occupied Bandwidth

Averages: 300

Ref 20 dBm
Atten 10 dB

#Samp 10  
 Log  
 dB/Offst 21.2 dB

Center 2.437 00 GHz
Span 30 MHz

Res BW 270 kHz
VBW 2.7 MHz
Sweep 1.24 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
16.4741 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-16.130 kHz	
<b>x dB Bandwidth</b>	20.717 MHz*	

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Meas Off
Channel Power
Occupied BW
ACP
Multi Carrier Power
Power Stat CCDF
More 1 of 2



2.1011G/6\_M@2

<b>Agilent</b>		<b>Measure</b>
Ch Freq 2.437 GHz Trig Free		Meas Off
Occupied Bandwidth Averages: 300		Channel Power
Ref 20 dBm Atten 10 dB #Samp Log 10 dB/ Offst 21.2 dB 		Occupied BW
Center 2.437 00 GHz Span 30 MHz Res BW 270 kHz VBW 2.7 MHz Sweep 1.24 ms (601 pts)		ACP
<b>Occupied Bandwidth</b> Occ BW % Pwr 99.00 % <b>16.4826 MHz</b> x dB -26.00 dB		Multi Carrier Power
Transmit Freq Error 296.833 Hz x dB Bandwidth 20.600 MHz*		Power Stat CCDF
<b>Copyright 2000-2011 Agilent Technologies</b>		More 1 of 2

2.1111G/6\_T@1

<b>Agilent</b>		<b>Measure</b>
Ch Freq 2.462 GHz Trig Free		Meas Off
Occupied Bandwidth Averages: 300		Channel Power
Ref 20 dBm Atten 10 dB #Samp Log 10 dB/Offst 21.2 dB 		Occupied BW
Center 2.462 00 GHz Span 30 MHz		ACP
Res BW 270 kHz VBW 2.7 MHz Sweep 1.24 ms (601 pts)		Multi Carrier Power
<b>Occupied Bandwidth</b> Occ BW % Pwr 99.00 % <b>16.4756 MHz</b> x dB -26.00 dB		Power Stat CCDF
Transmit Freq Error -29.575 kHz x dB Bandwidth 20.532 MHz*		More 1 of 2
<b>Copyright 2000-2011 Agilent Technologies</b>		



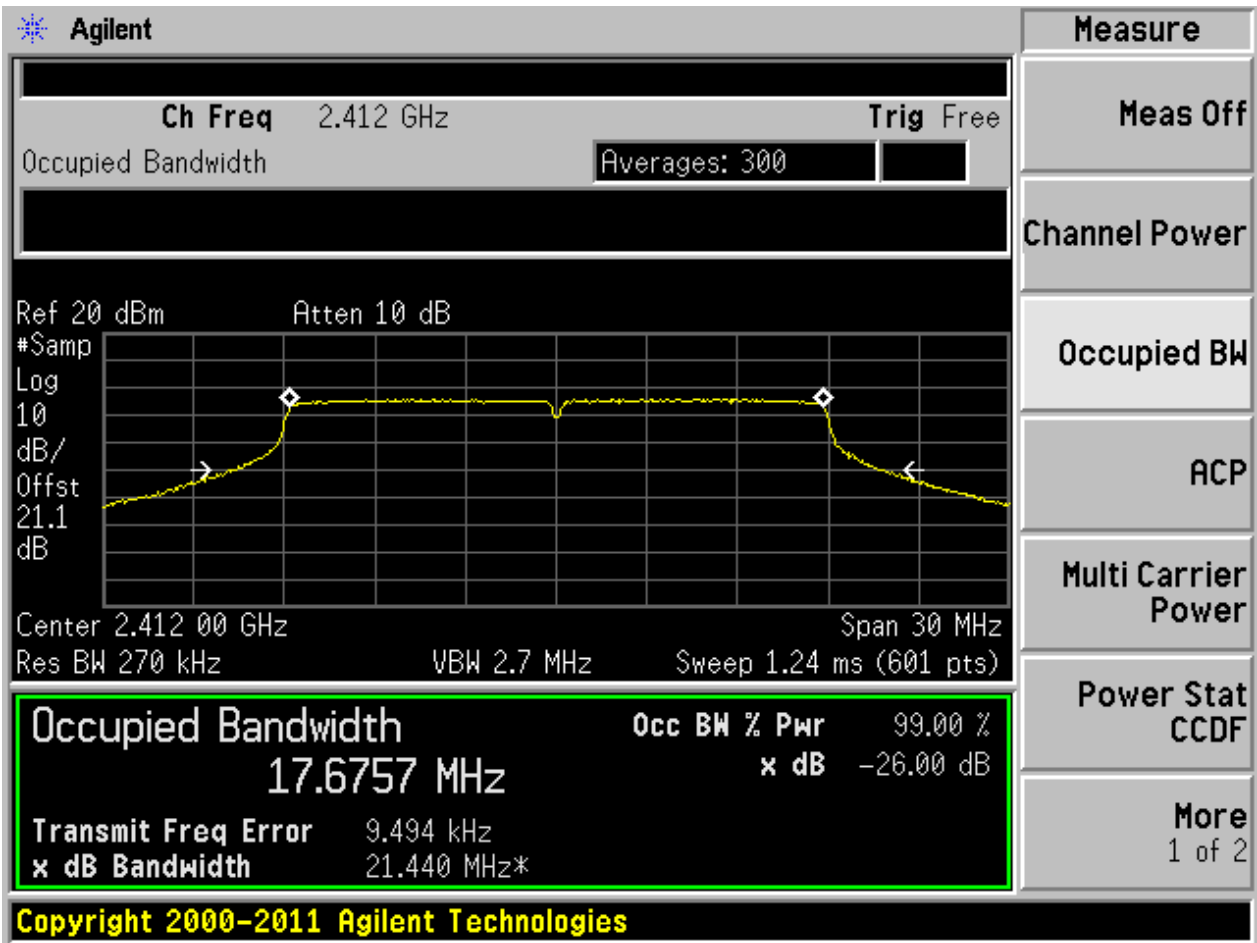
2.1211G/6\_T@2

<b>Agilent</b>		<b>Measure</b>
Ch Freq 2.462 GHz Trig Free		Meas Off
Occupied Bandwidth Averages: 300		Channel Power
Ref 20 dBm Atten 10 dB #Samp Log 10 dB/Offst 21.2 dB 		Occupied BW
Center 2.462 00 GHz Span 30 MHz		ACP
Res BW 270 kHz VBW 2.7 MHz Sweep 1.24 ms (601 pts)		Multi Carrier Power
<b>Occupied Bandwidth</b> Occ BW % Pwr 99.00 % <b>16.4775 MHz</b> x dB -26.00 dB		Power Stat CCDF
Transmit Freq Error -11.958 kHz x dB Bandwidth 20.629 MHz*		More 1 of 2
<b>Copyright 2000-2011 Agilent Technologies</b>		





2.1311N20/0\_B@1



2.1411N20/0\_B@2

Agilent

**Measure**

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

Occupied Bandwidth

Averages: 300

Ref 20 dBm
Atten 10 dB

#Samp  
 Log  
 10  
 dB/  
 Offst  
 21.1  
 dB

Center 2.412 00 GHz
Span 30 MHz

Res BW 270 kHz
VBW 2.7 MHz
Sweep 1.24 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
17.6811 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	763.513 Hz	
<b>x dB Bandwidth</b>	21.761 MHz*	

<b>Power Stat</b>	<b>CCDF</b>
<b>More</b>	
1 of 2	

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2.1511N20/0\_M@1

<b>Agilent</b>		<b>Measure</b>
Ch Freq 2.437 GHz Trig Free		Meas Off
Occupied Bandwidth Averages: 300		Channel Power
Ref 20 dBm Atten 10 dB #Samp Log 10 dB/Offst 21.2 dB 		Occupied BW
Center 2.437 00 GHz Span 30 MHz		ACP
Res BW 270 kHz VBW 2.7 MHz Sweep 1.24 ms (601 pts)		Multi Carrier Power
<b>Occupied Bandwidth</b> Occ BW % Pwr 99.00 % 17.6735 MHz x dB -26.00 dB		Power Stat CCDF
Transmit Freq Error -13.166 kHz x dB Bandwidth 21.442 MHz*		More 1 of 2
<b>Copyright 2000-2011 Agilent Technologies</b>		



2.1611N20/0\_M@2

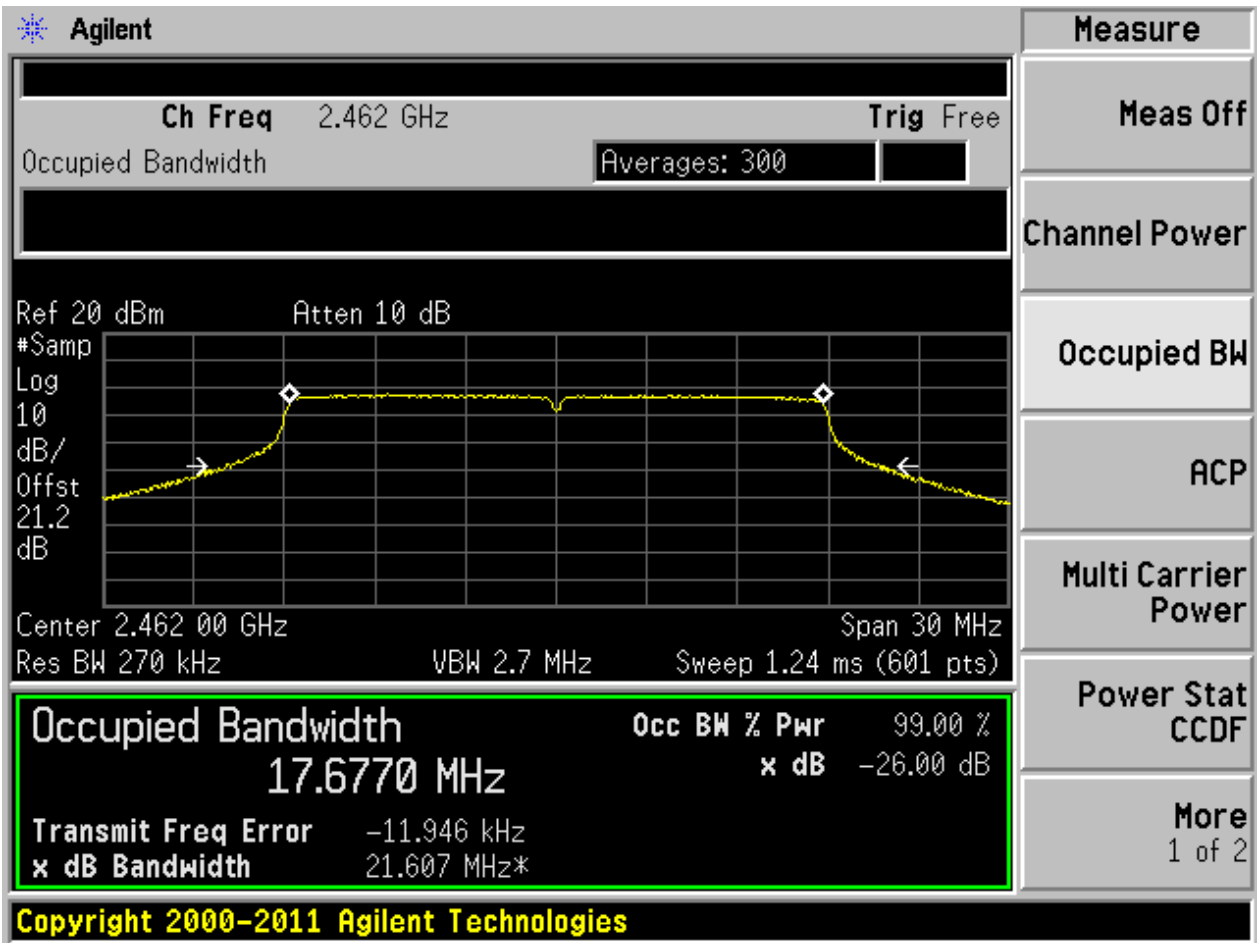
<b>Agilent</b>		<b>Measure</b>
Ch Freq 2.437 GHz Trig Free		Meas Off
Occupied Bandwidth Averages: 300		Channel Power
Ref 20 dBm Atten 10 dB #Samp Log 10 dB/Offst 21.2 dB 		Occupied BW
Center 2.437 00 GHz Span 30 MHz		ACP
Res BW 270 kHz VBW 2.7 MHz Sweep 1.24 ms (601 pts)		Multi Carrier Power
<b>Occupied Bandwidth</b> Occ BW % Pwr 99.00 % 17.6751 MHz x dB -26.00 dB		Power Stat CCDF
Transmit Freq Error 2.469 kHz x dB Bandwidth 21.557 MHz*		More 1 of 2
<b>Copyright 2000-2011 Agilent Technologies</b>		



2.1711N20/0\_T@1

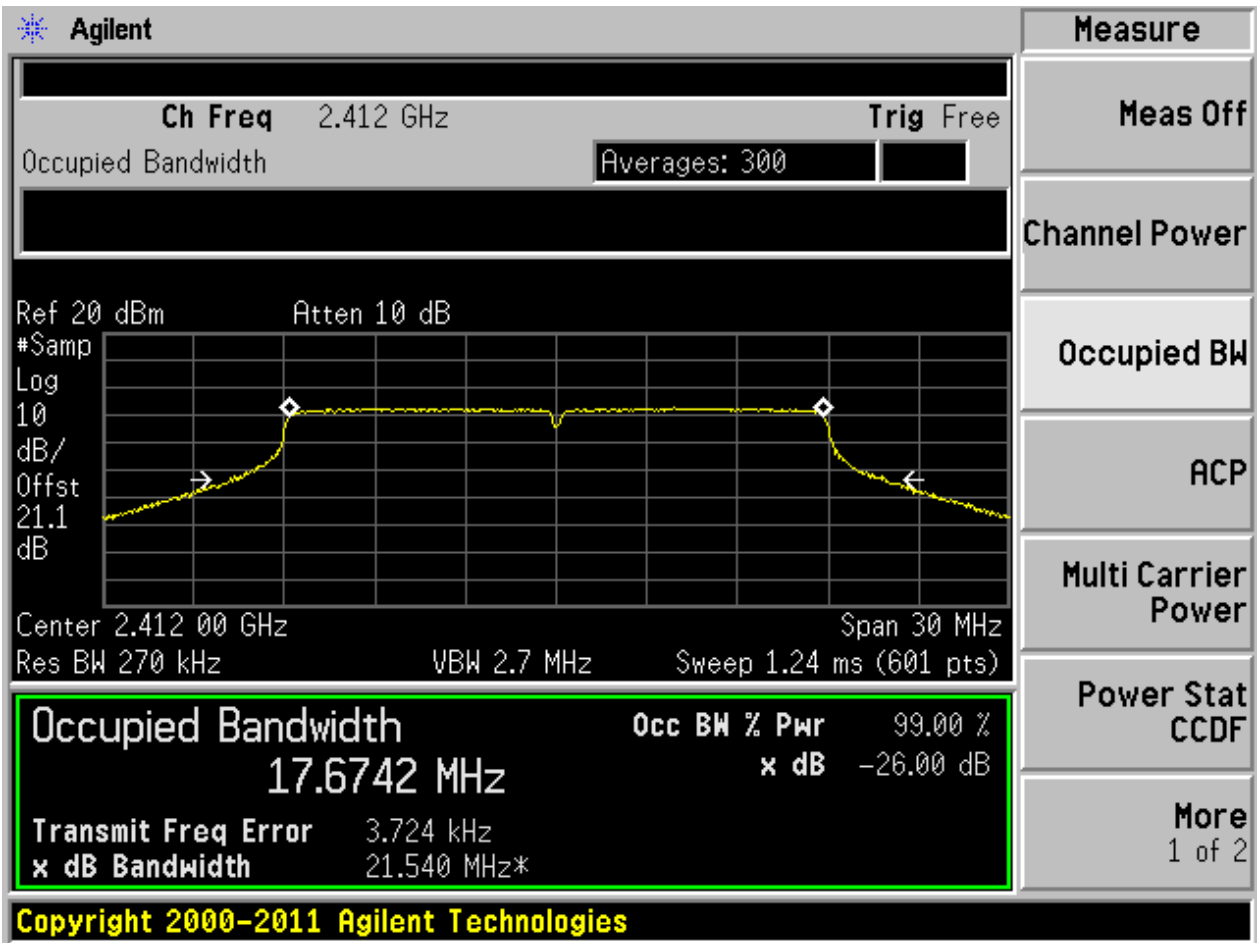
<b>Agilent</b>		<b>Measure</b>
Ch Freq 2.462 GHz Trig Free		Meas Off
Occupied Bandwidth Averages: 300		Channel Power
Ref 20 dBm Atten 10 dB #Samp Log 10 dB/Offst 21.2 dB 		Occupied BW
Center 2.462 00 GHz Span 30 MHz		ACP
Res BW 270 kHz VBW 2.7 MHz Sweep 1.24 ms (601 pts)		Multi Carrier Power
<b>Occupied Bandwidth</b> Occ BW % Pwr 99.00 % 17.6802 MHz x dB -26.00 dB		Power Stat CCDF
Transmit Freq Error -29.412 kHz x dB Bandwidth 21.429 MHz*		More 1 of 2
<b>Copyright 2000-2011 Agilent Technologies</b>		

2.1811N20/0\_T@2

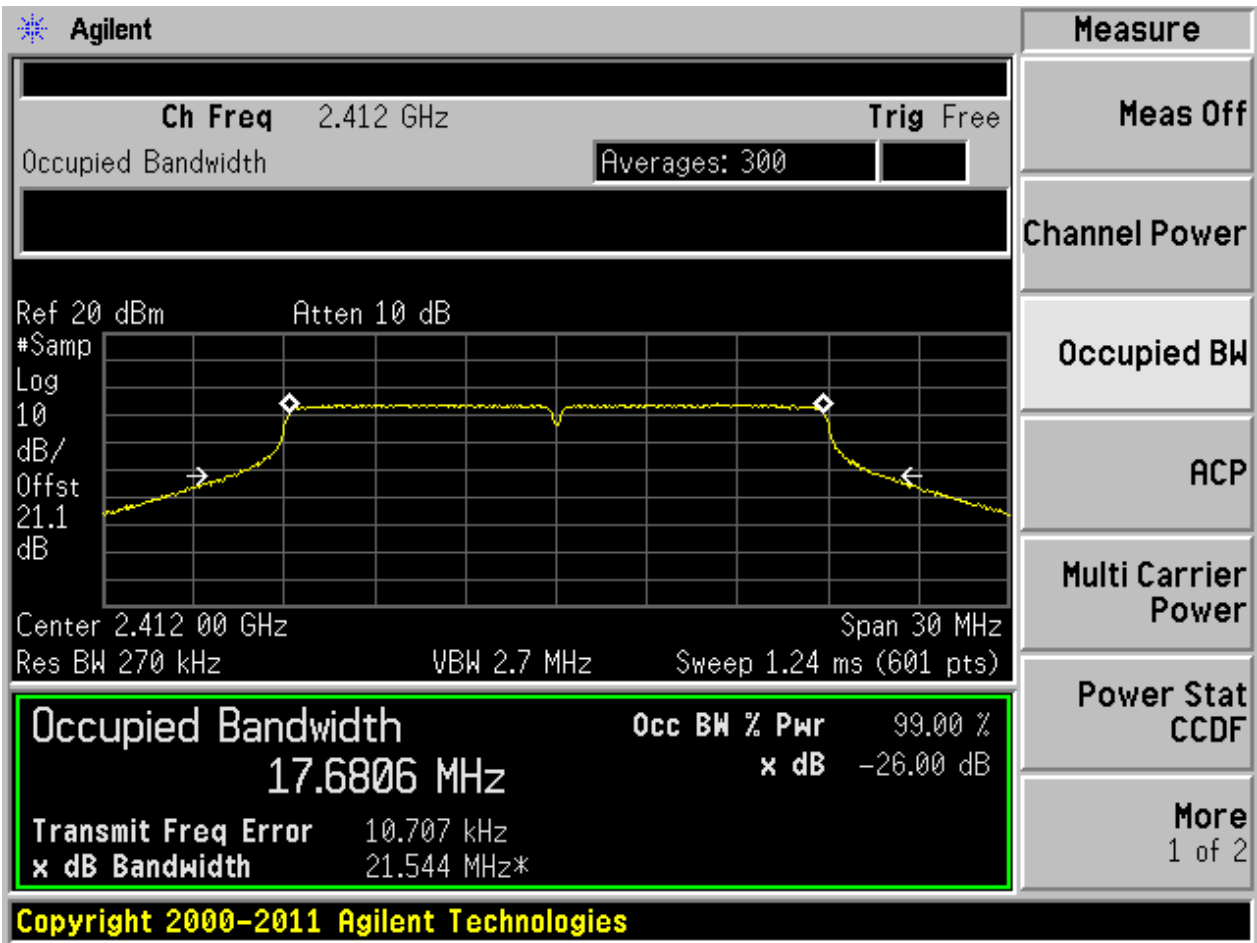


2.1911N20m/8\_B@1+2

2.19.1 Ant 1



2.19.2 Ant 2



2.2011N20m/8\_M@1+2



2.20.1 Ant 1

Agilent

**Measure**

**Ch Freq** 2.437 GHz
**Trig** Free

Occupied Bandwidth

Averages: 300

Ref 20 dBm
Atten 10 dB

#Samp 10  
 Log  
 dB/Offst 21.2 dB

Center 2.437 00 GHz
Span 30 MHz

Res BW 270 kHz
VBW 2.7 MHz
Sweep 1.24 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
17.6747 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-12.706 kHz	
<b>x dB Bandwidth</b>	21.265 MHz*	

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**Meas Off**

**Channel Power**

**Occupied BW**

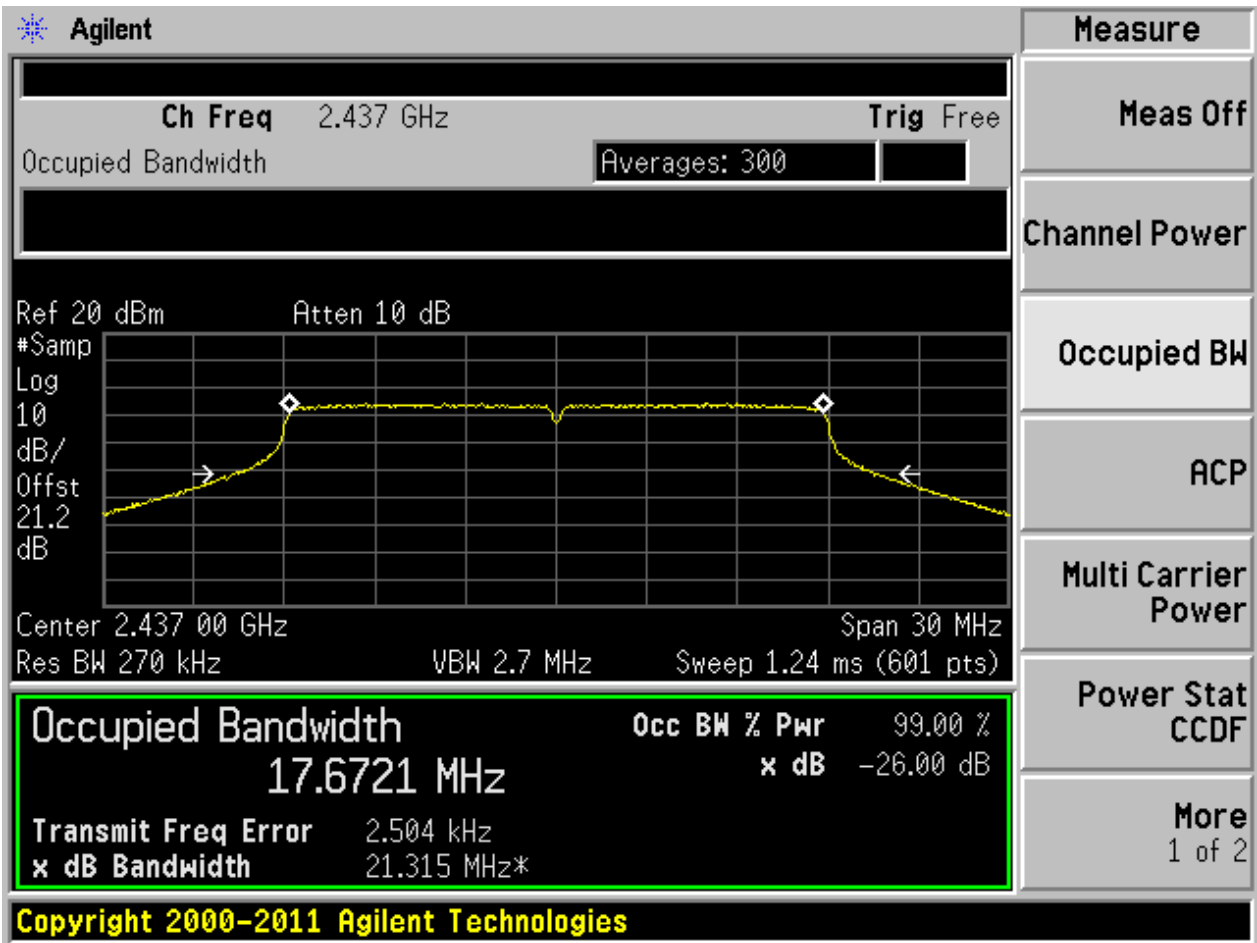
**ACP**

**Multi Carrier Power**

**Power Stat CCDF**

**More**  
1 of 2

2.20.2 Ant 2



2.2111N20m/8\_T@1+2

2.21.1 Ant 1

Agilent

**Measure**

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

Occupied Bandwidth

Averages: 300

Ref 20 dBm
Atten 10 dB

#Samp 10  
 Log  
 dB/Offst 21.2 dB

Center 2.462 00 GHz
Span 30 MHz

Res BW 270 kHz
VBW 2.7 MHz
Sweep 1.24 ms (601 pts)

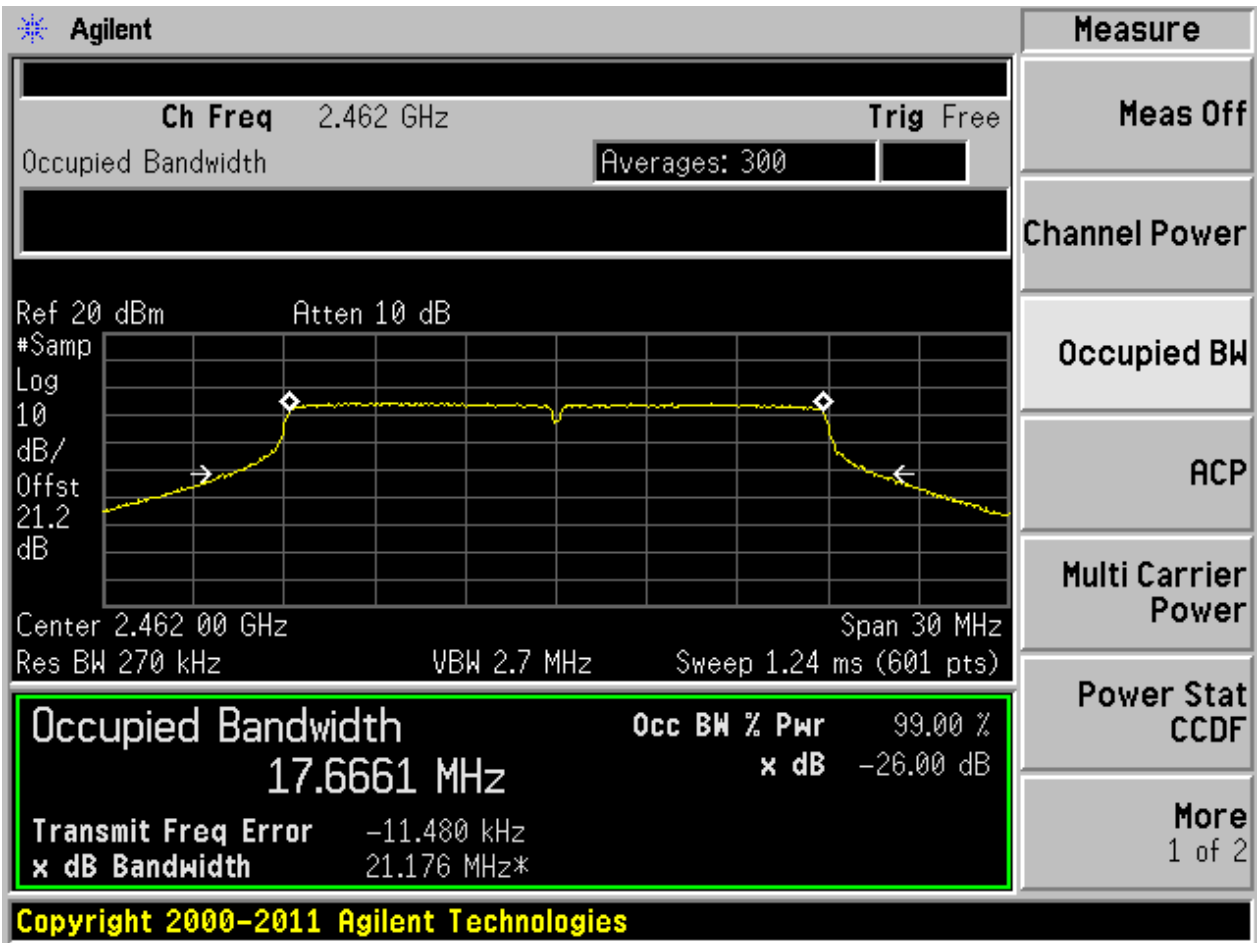
<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
17.6692 MHz	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b> -24.738 kHz	
<b>x dB Bandwidth</b> 21.250 MHz*	

**Power Stat**
**CCDF**

**More**  
 1 of 2

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2.21.2 Ant 2





# Appendix B: Maximum Peak Conducted Output Power

## 1 Result Table

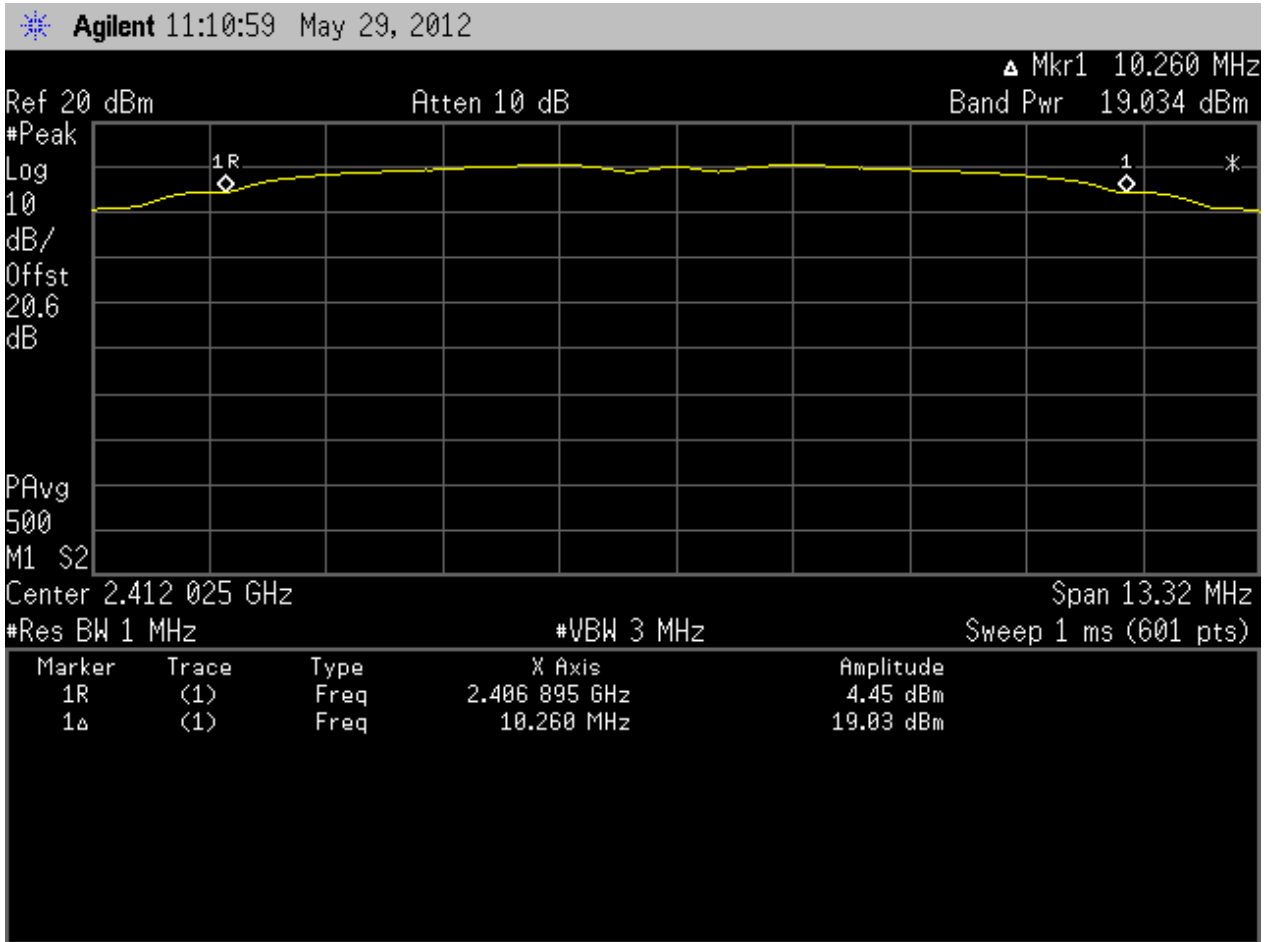
NOTE 1: In this Appendix, the Pmax refers to the measured “Maximum Peak Conducted Output Power” value. According to the description of FCC OET KDB 558074, the fc(DTS6dBBW) (as the DTS6dBBW band edges) from “DTS (6 dB) Bandwidth” is used to determine the integrated band power.

NOTE 2: For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and then combined into a final result Pmax which is the calculated linear sum of each result “Pmax@Ant i” with i = 1 to N (the N denotes the antenna ports used by smart antenna systems).

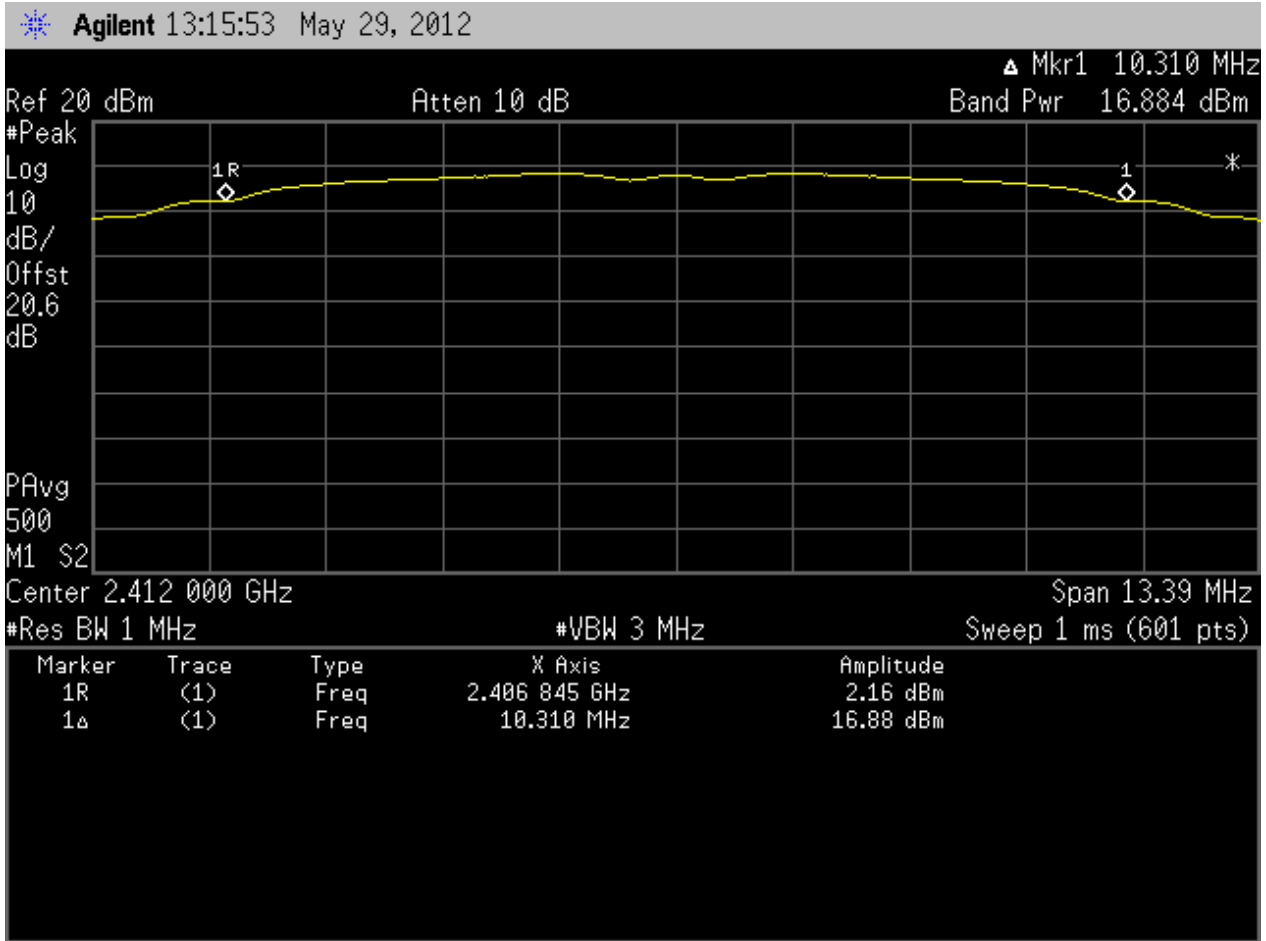
EUT Conf.	Pmax@Ant 1 [dBm]	Pmax@Ant 2 [dBm]	Pmax [dBm]	Verdict
11B/1_B@1	19.03	---	19.03	Pass
11B/1_B@2	---	16.88	16.88	Pass
11B/1_M@1	17.22	---	17.22	Pass
11B/1_M@2	---	16.65	16.65	Pass
11B/1_T@1	16.9	---	16.9	Pass
11B/1_T@2	---	16.55	16.55	Pass
11G/6_B@1	22.42	---	22.42	Pass
11G/6_B@2	---	22.08	22.08	Pass
11G/6_M@1	21.99	---	21.99	Pass
11G/6_M@2	---	21.89	21.89	Pass
11G/6_T@1	21.93	---	21.93	Pass
11G/6_T@2	---	21.63	21.63	Pass
11N20/0_B@1	22.29	---	22.29	Pass
11N20/0_B@2	---	21.34	21.34	Pass
11N20/0_M@1	21.92	---	21.92	Pass
11N20/0_M@2	---	21.66	21.66	Pass
11N20/0_T@1	21.94	---	21.94	Pass
11N20/0_T@2	---	21.62	21.62	Pass
11N20m/8_B@1+2	18.67	19.83	22.3	Pass
11N20m/8_M@1+2	18.66	19.55	22.14	Pass
11N20m/8_T@1+2	19.74	18.61	22.22	Pass

## 2 Test Plot

### 2.1 11B/1\_B@1

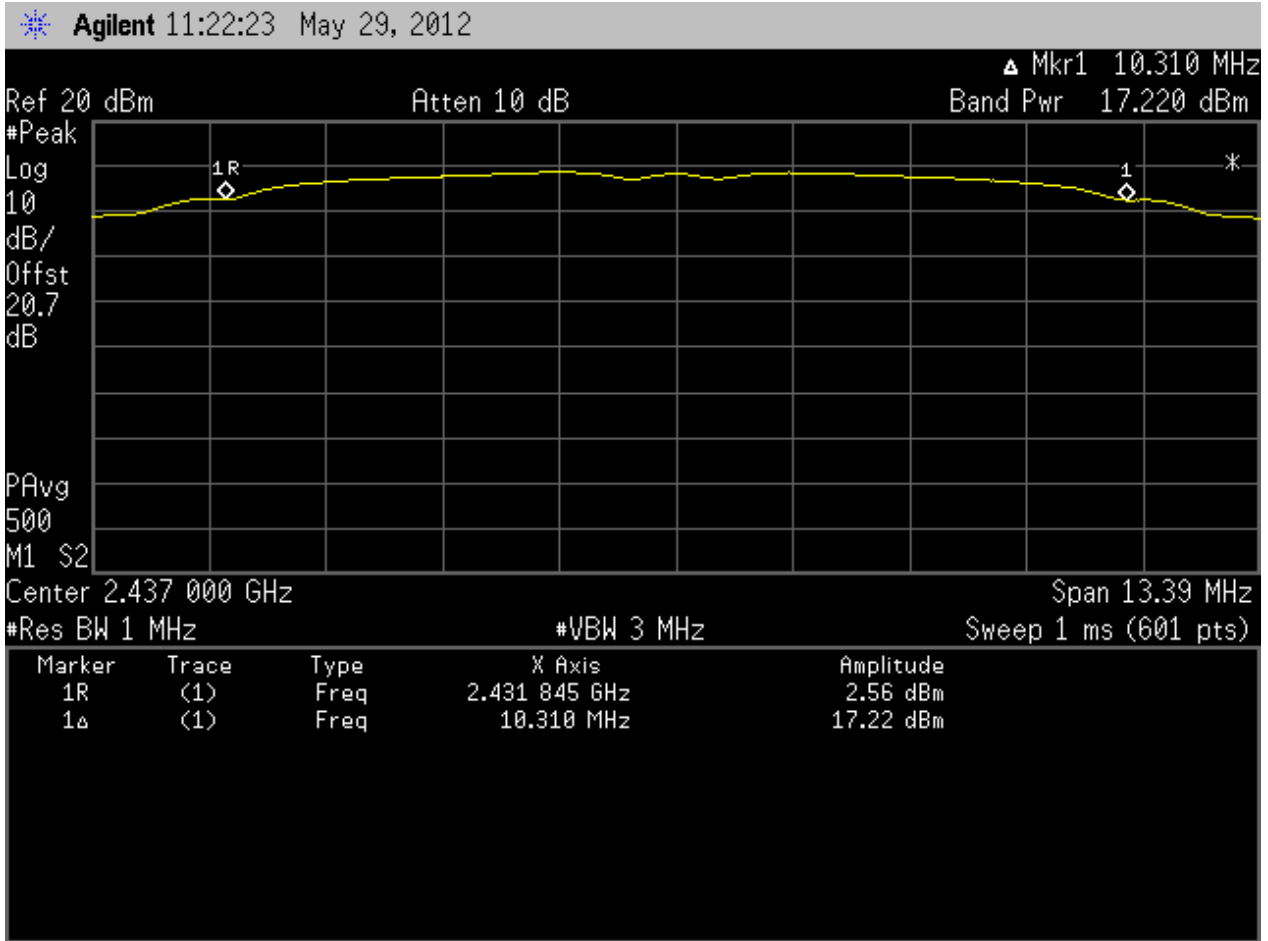


### 2.2 11B/1\_B@2

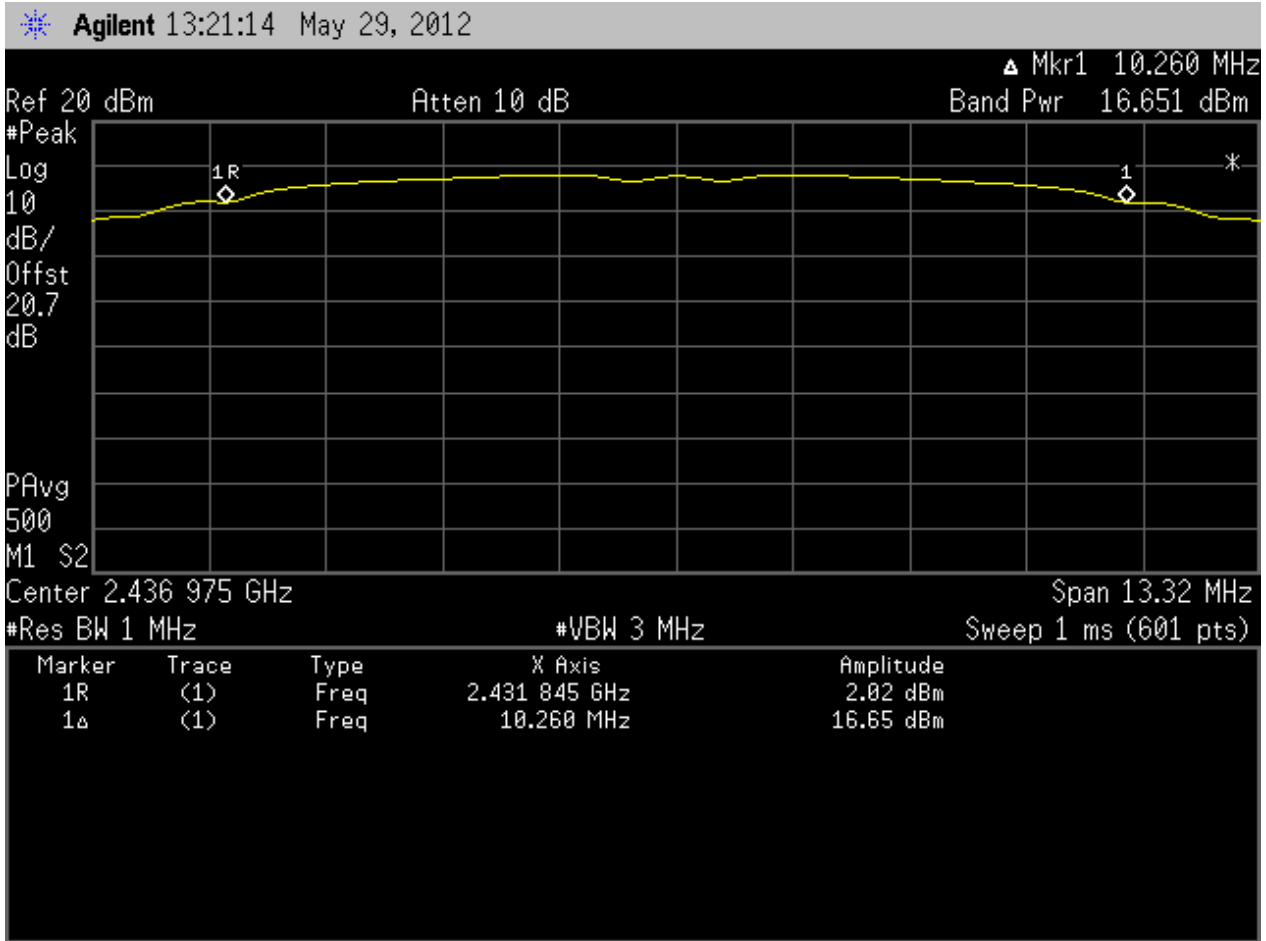


### 2.3 11B/1\_M@1

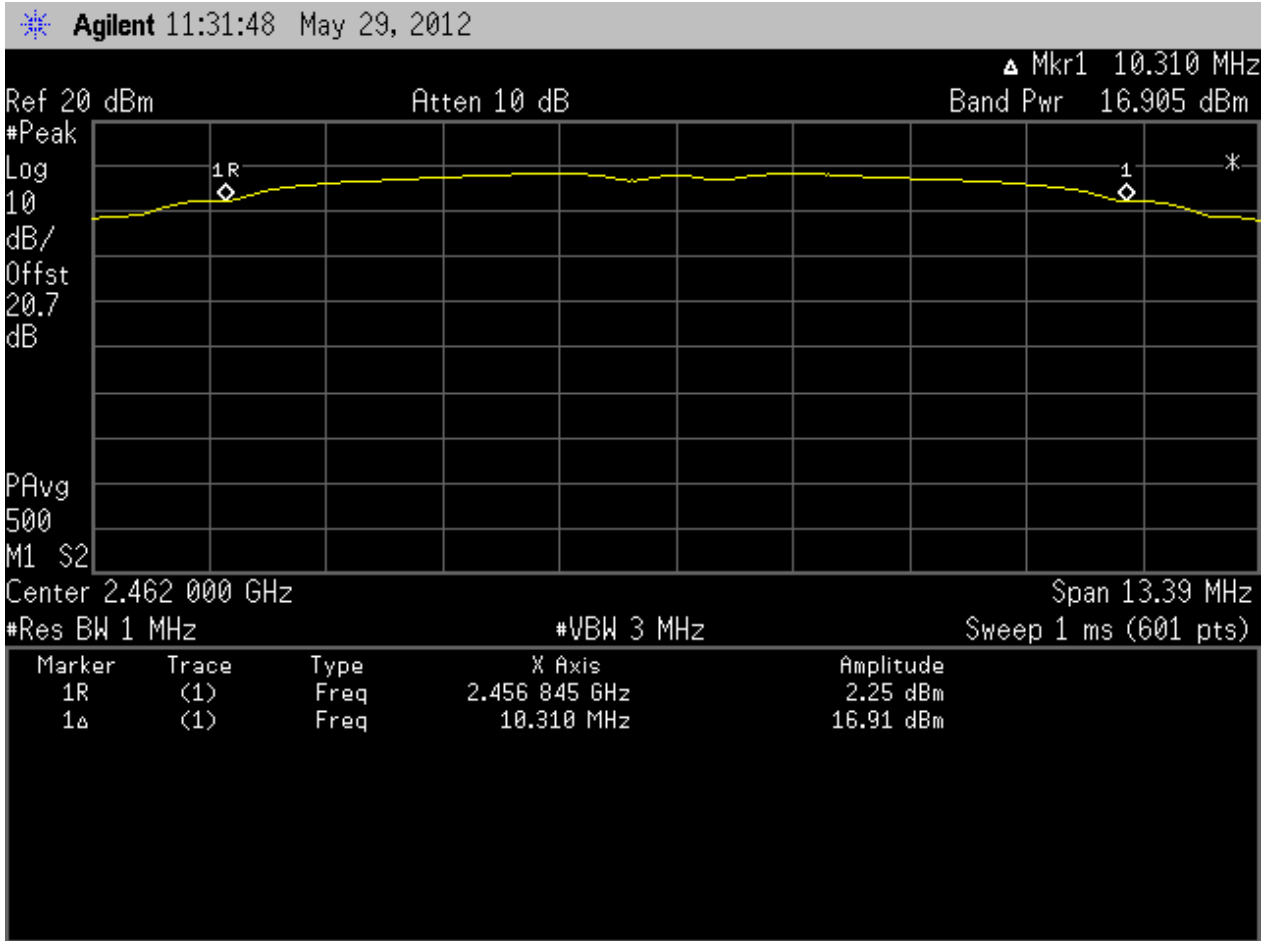




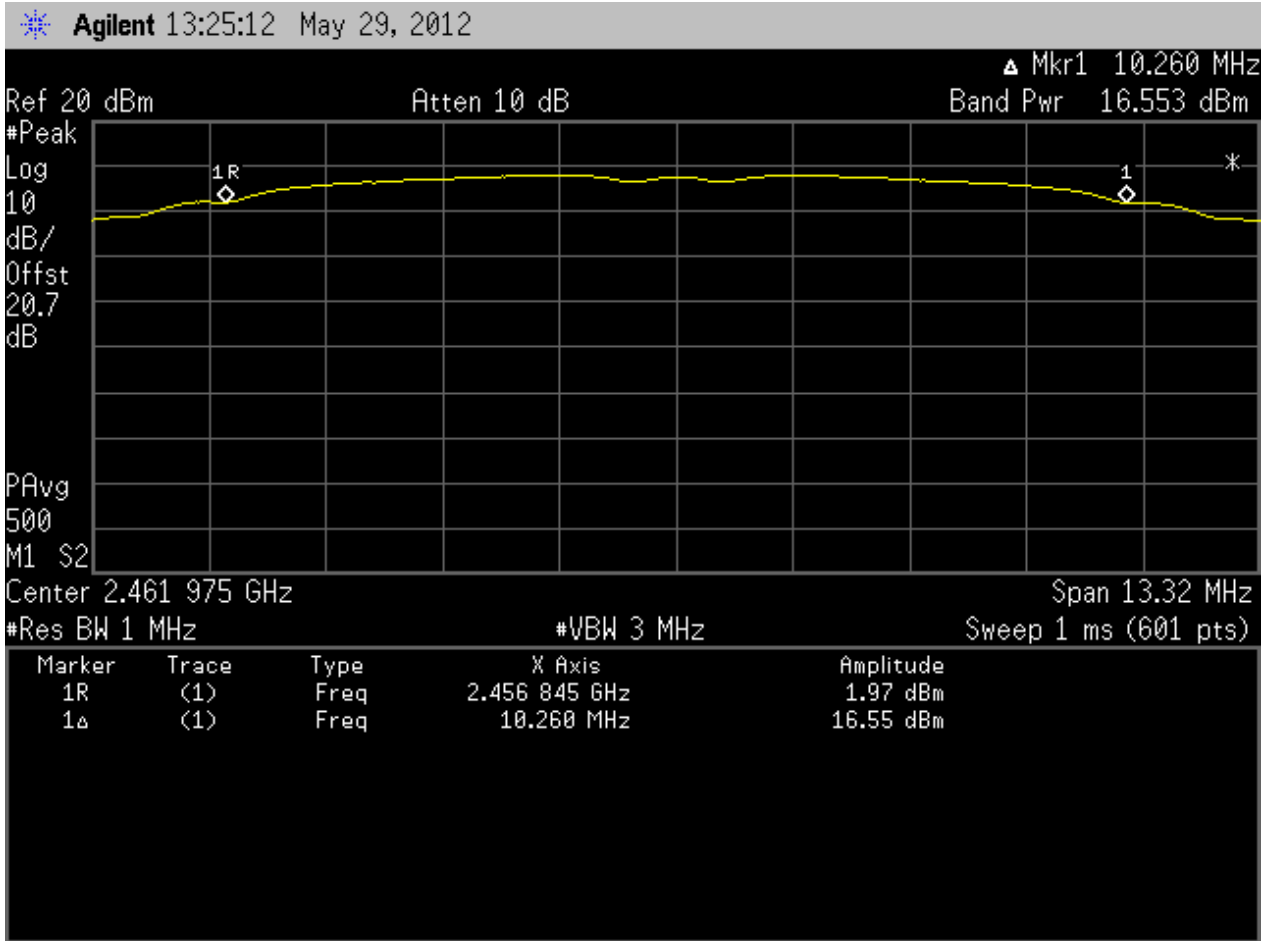
## 2.4 11B/1\_M@2



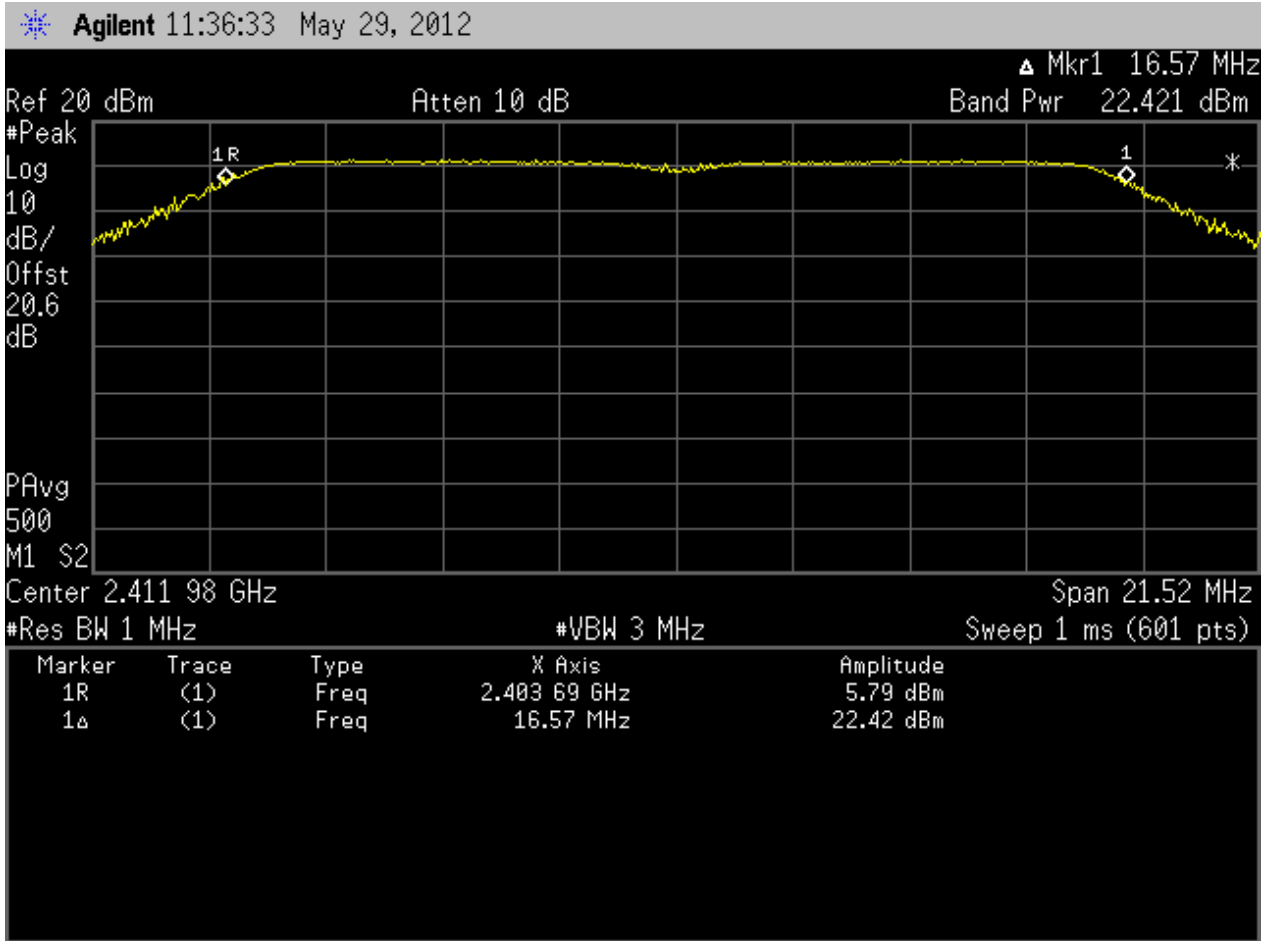
2.5 11B/1\_T@1



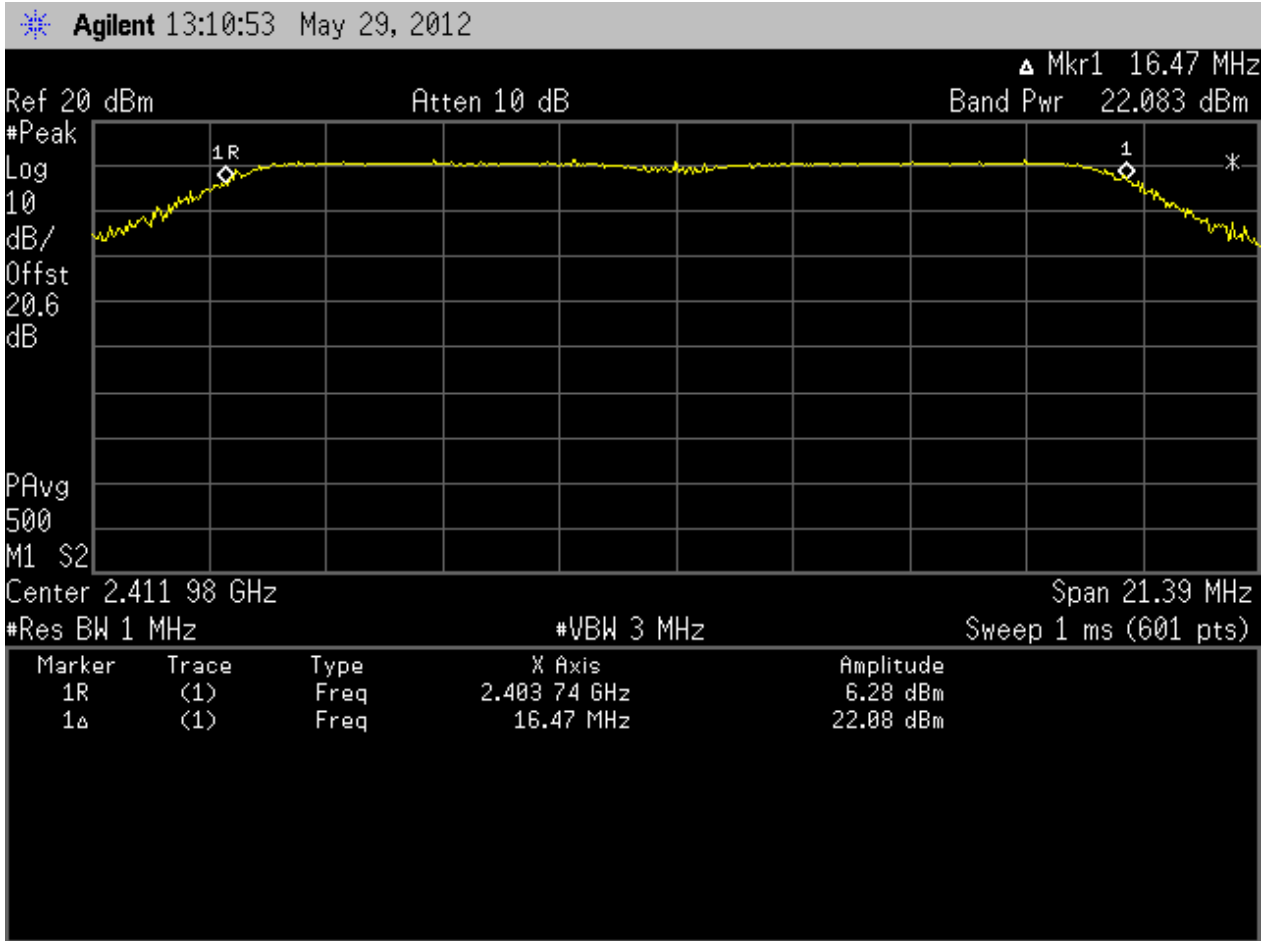
## 2.6 11B/1\_T@2



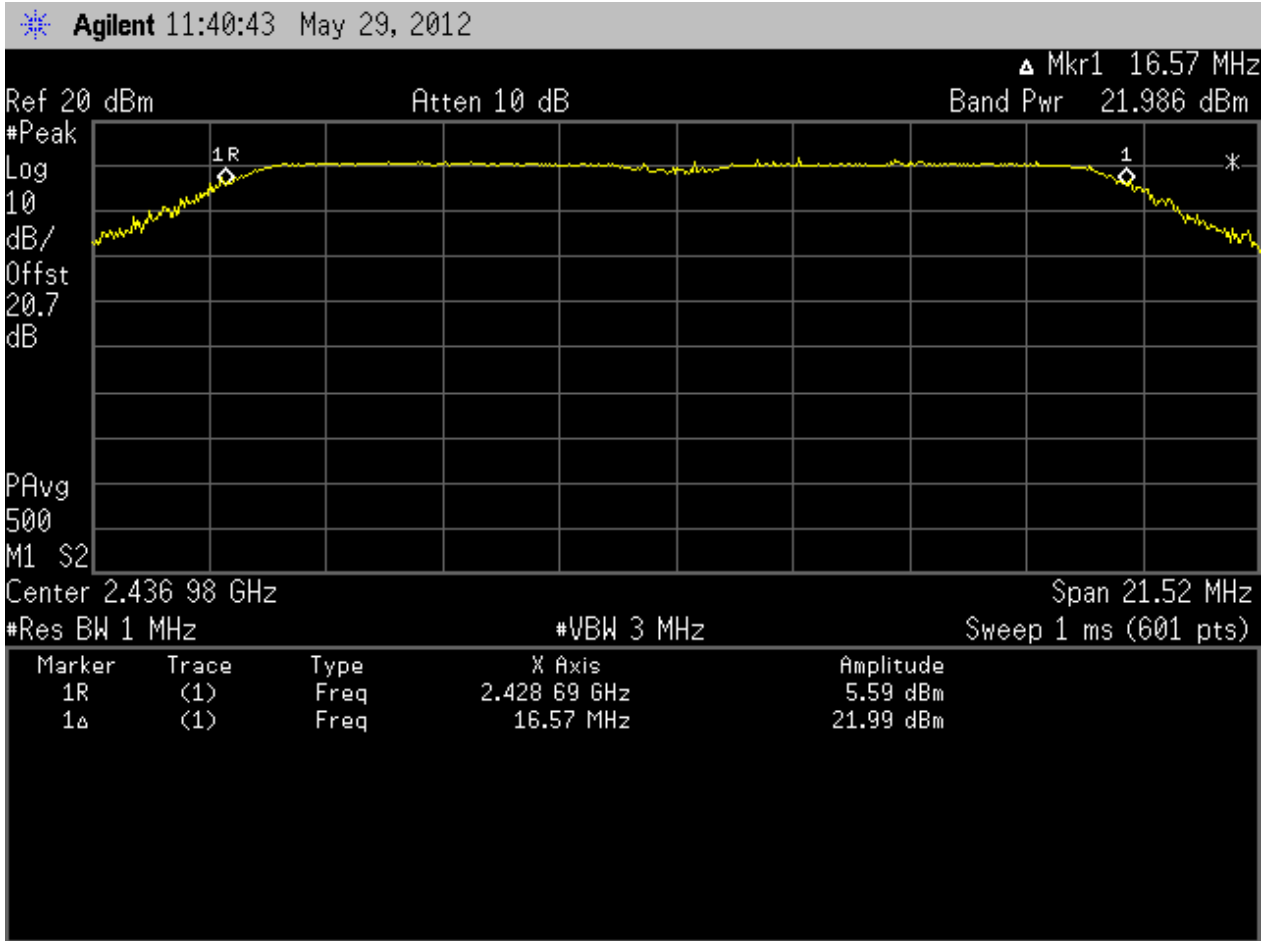
2.7 11G/6\_B@1



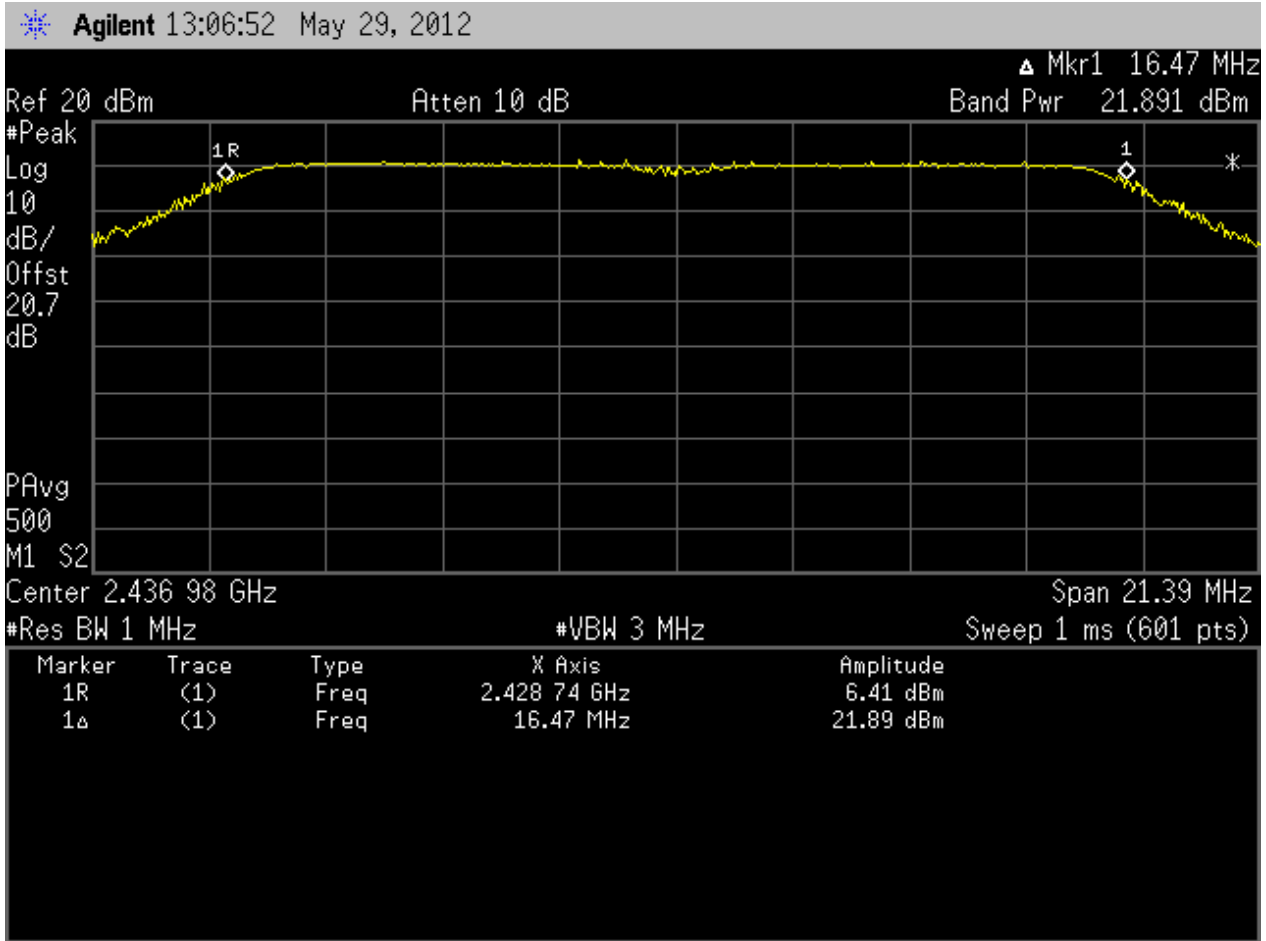
2.8 11G/6\_B@2



2.9 11G/6\_M@1

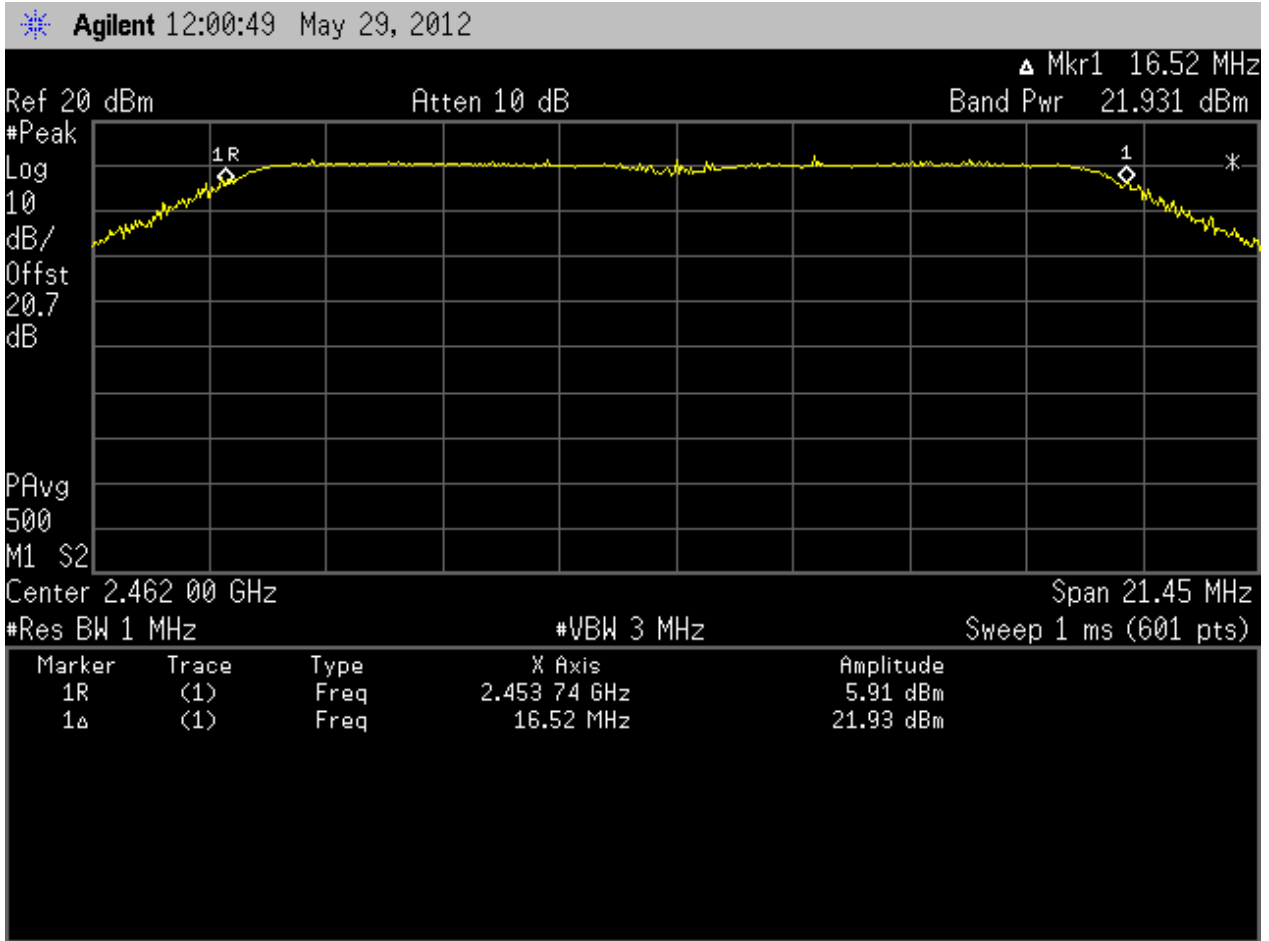


2.1011G/6\_M@2

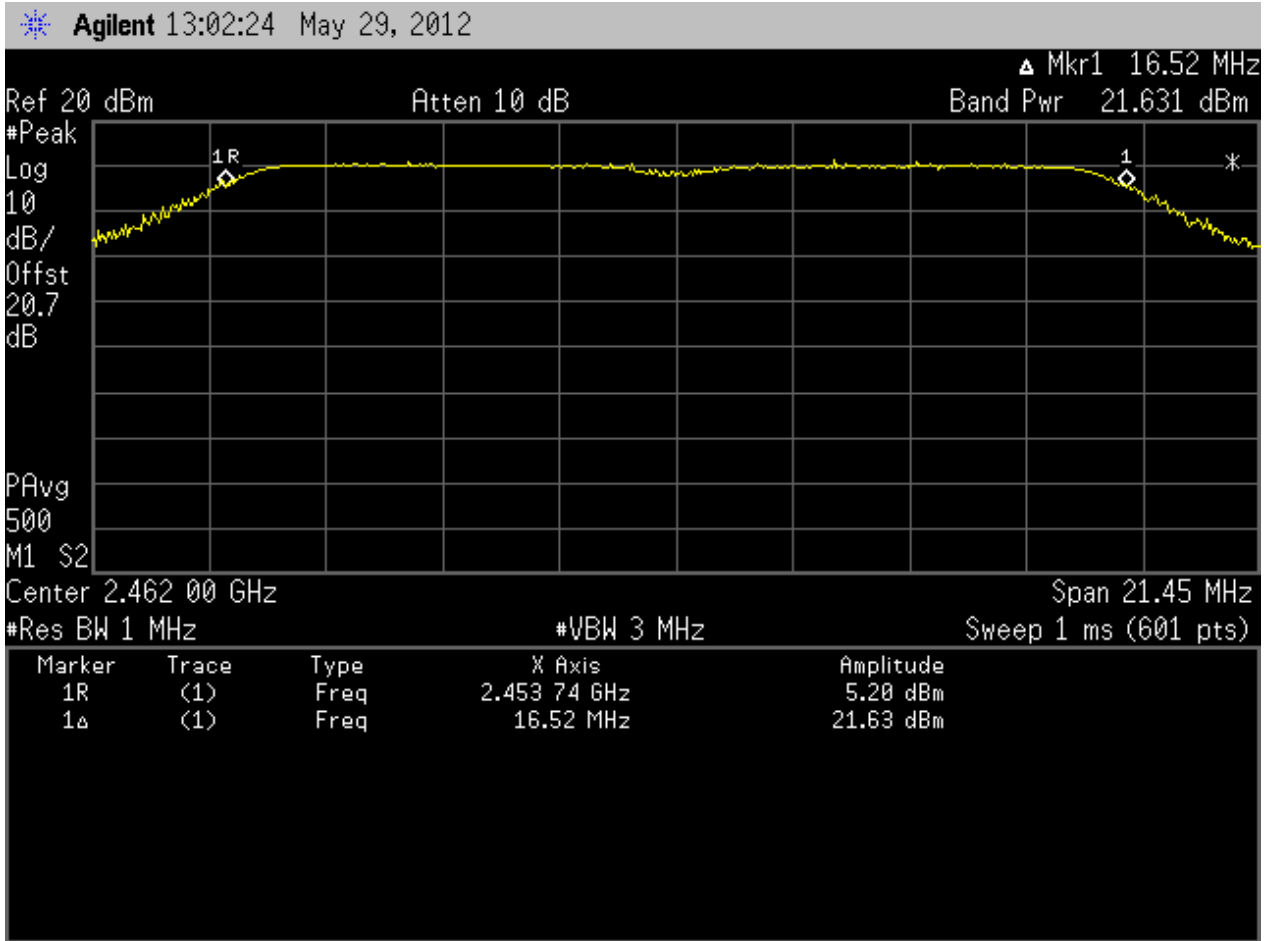


2.1111G/6\_T@1

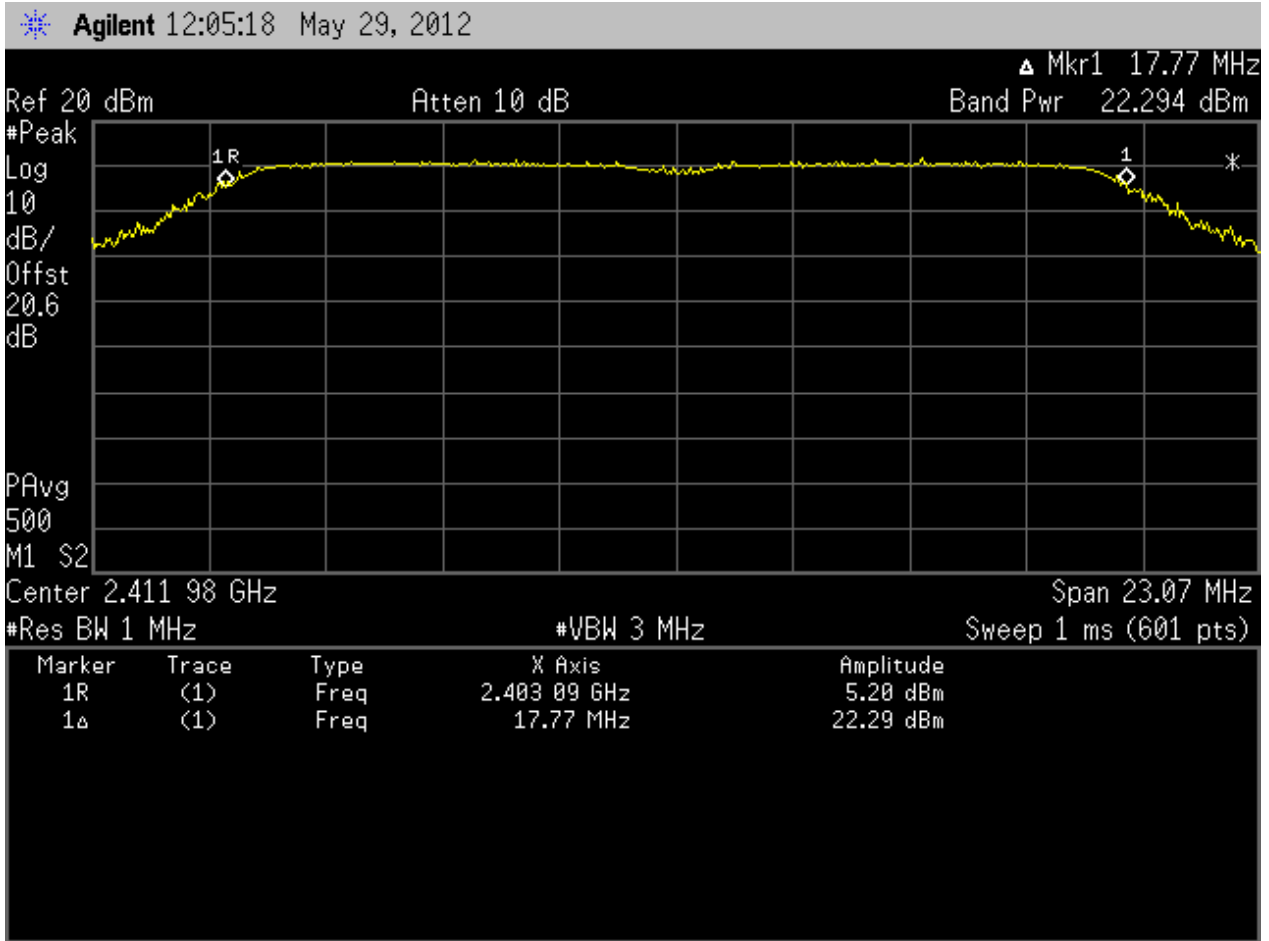




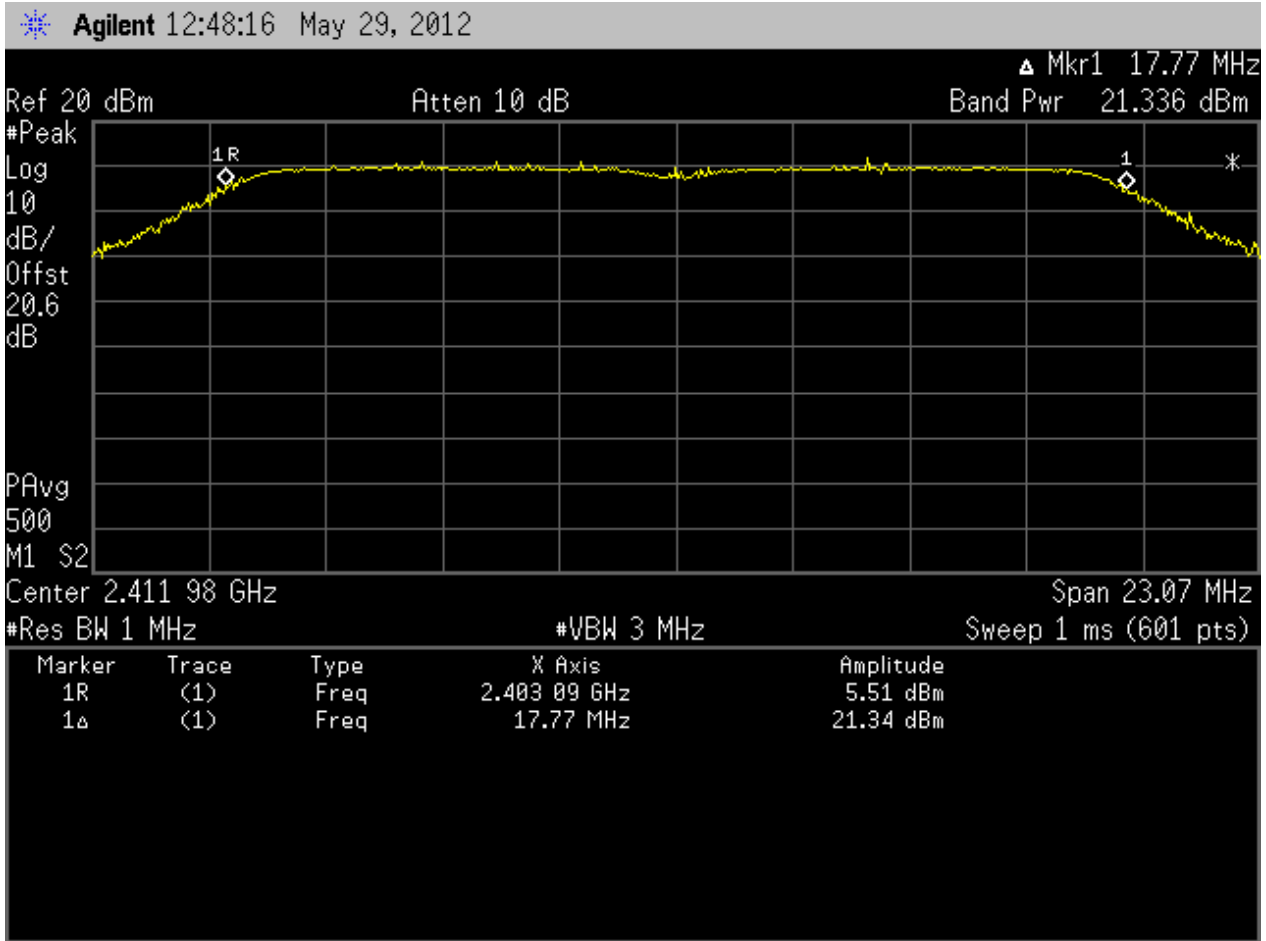
2.1211G/6\_T@2



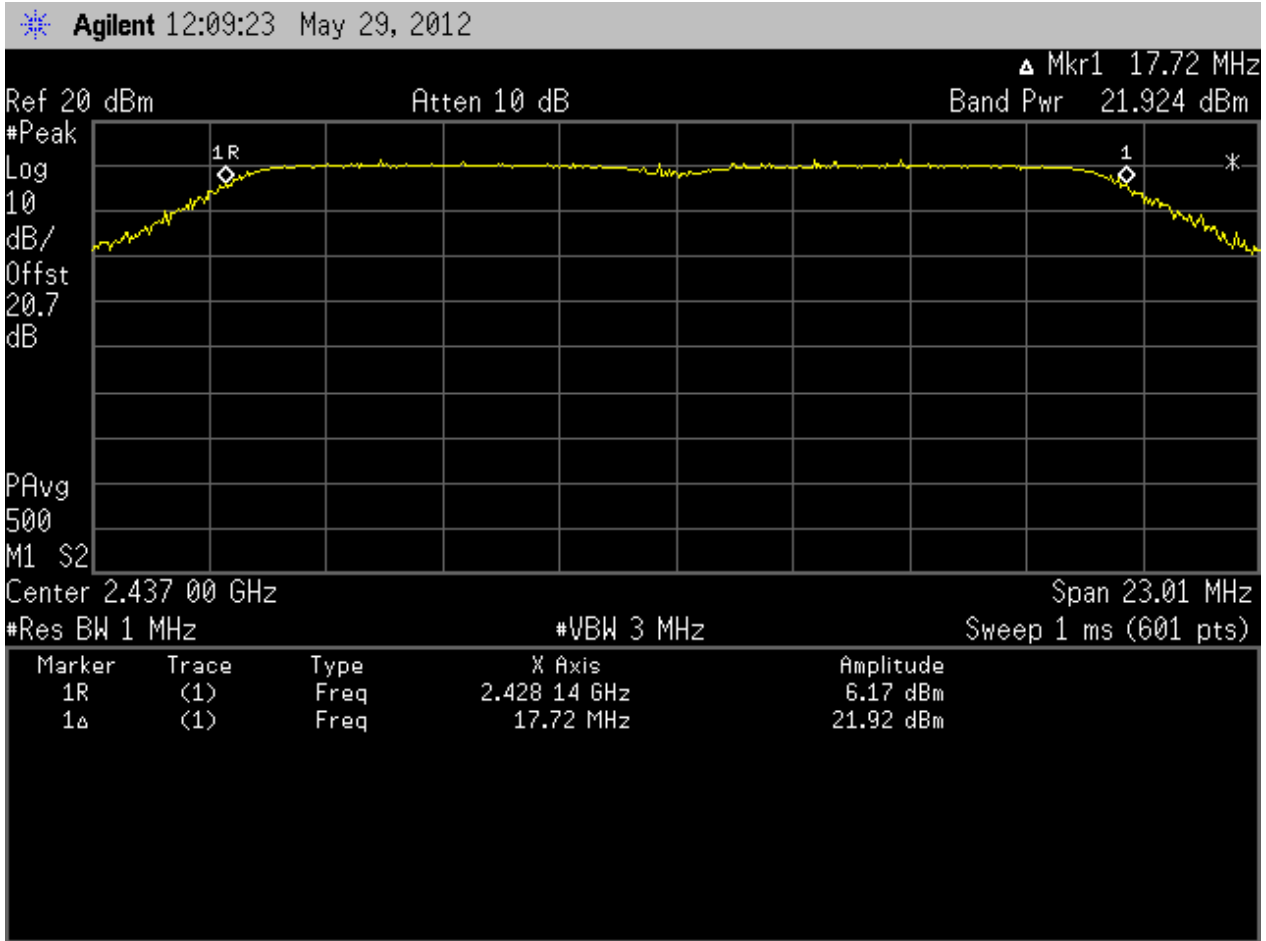
2.1311N20/0\_B@1



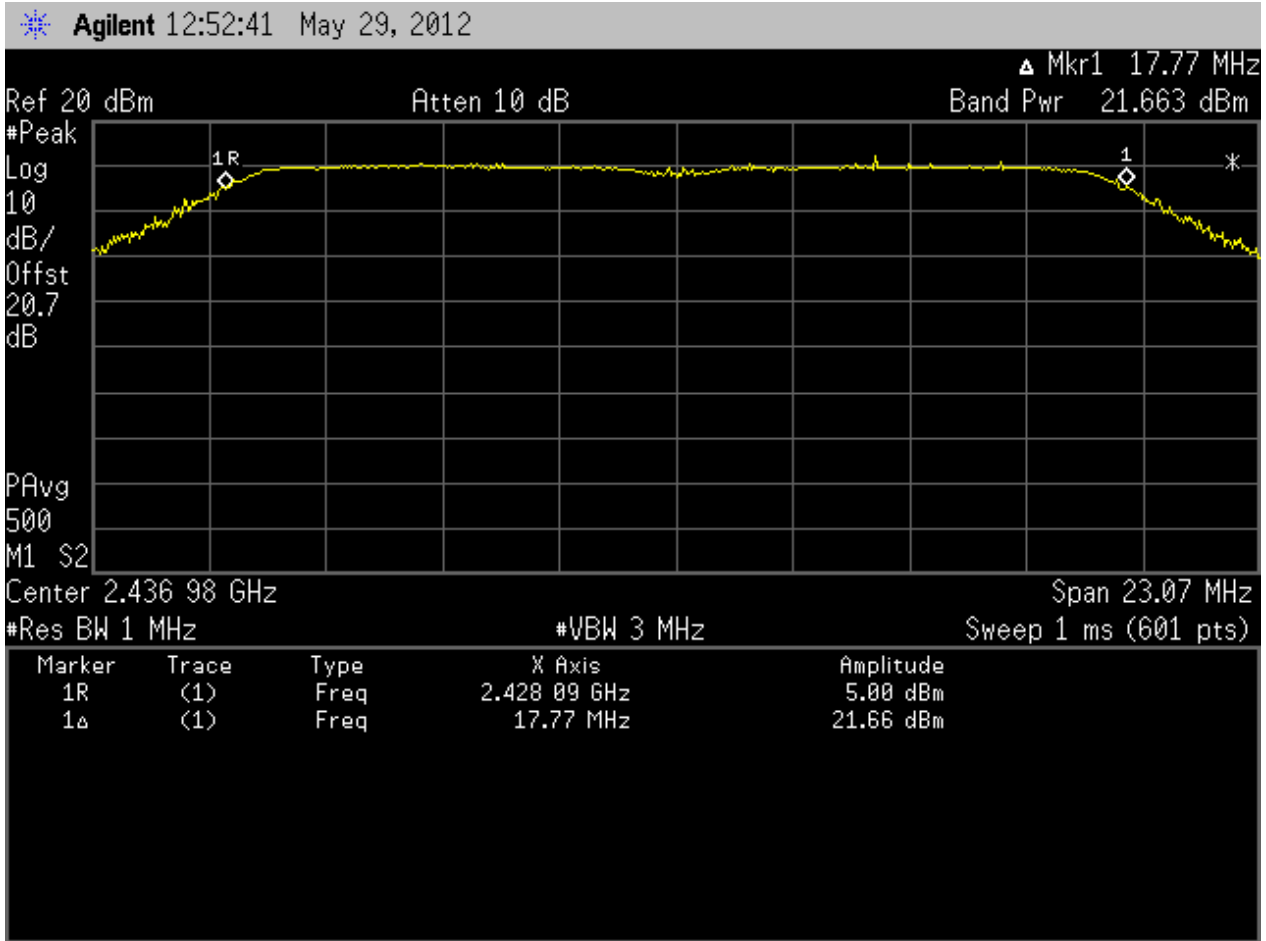
2.1411N20/0\_B@2



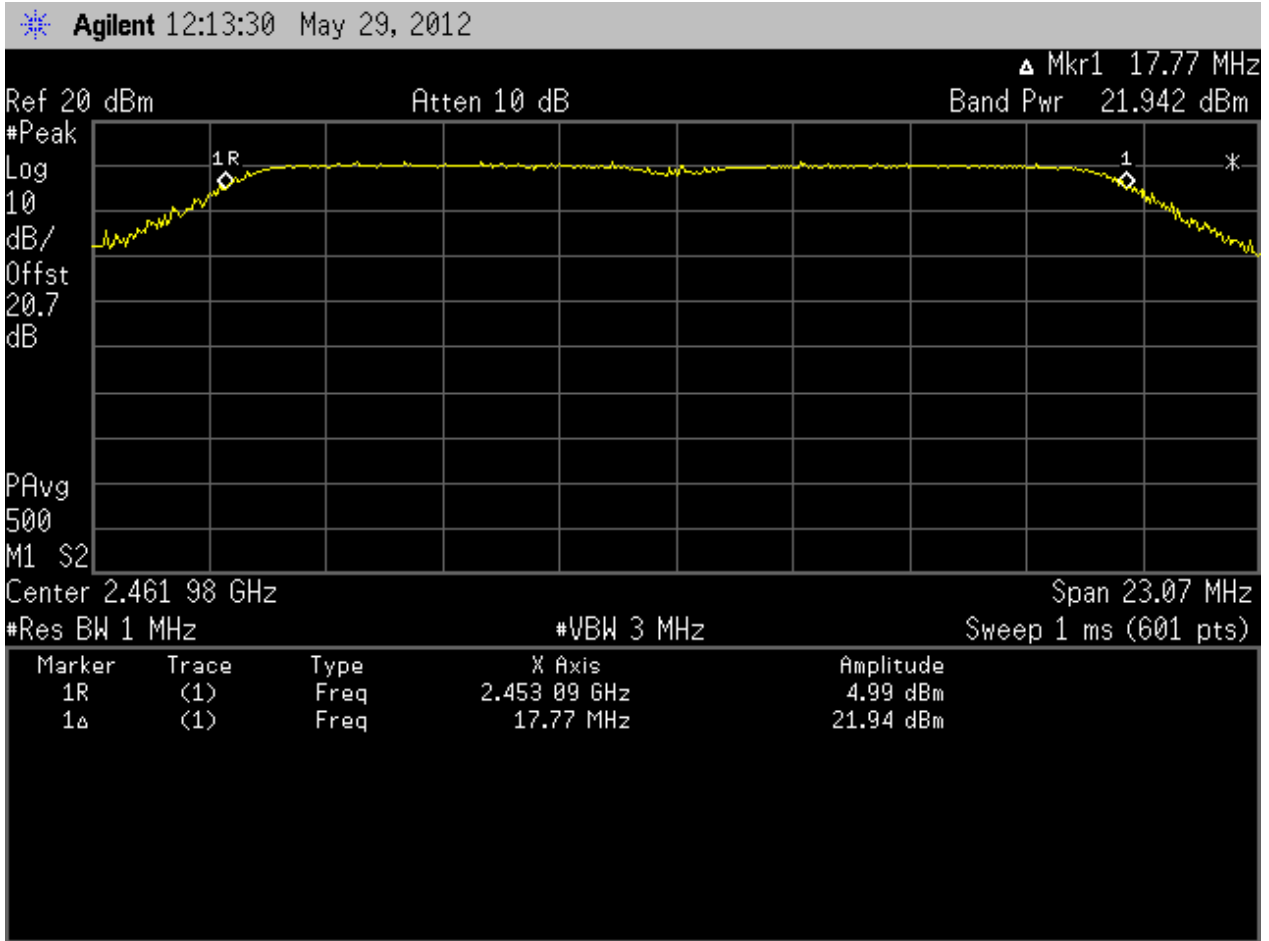
2.1511N20/0\_M@1



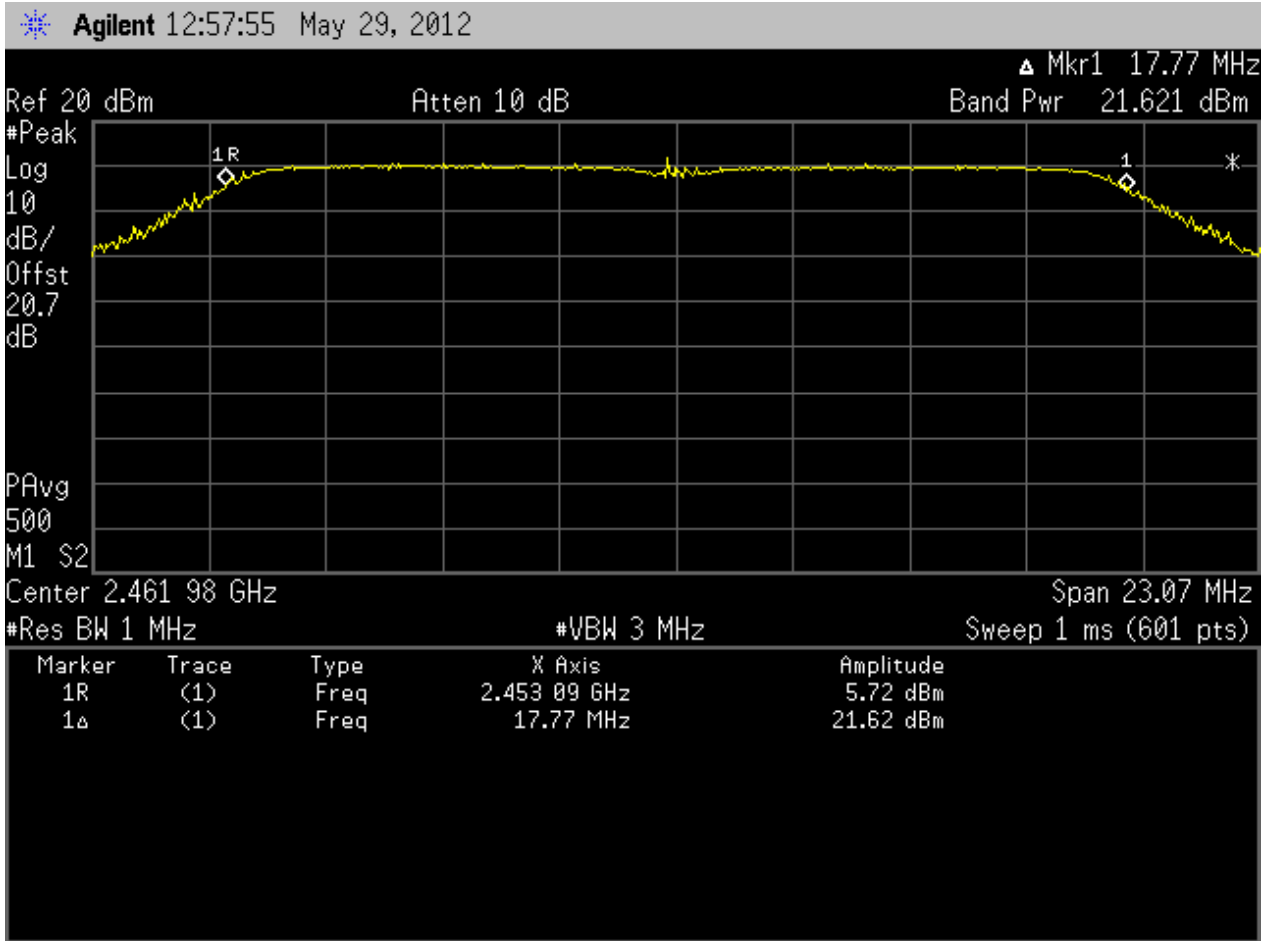
2.1611N20/0\_M@2



2.1711N20/0\_T@1



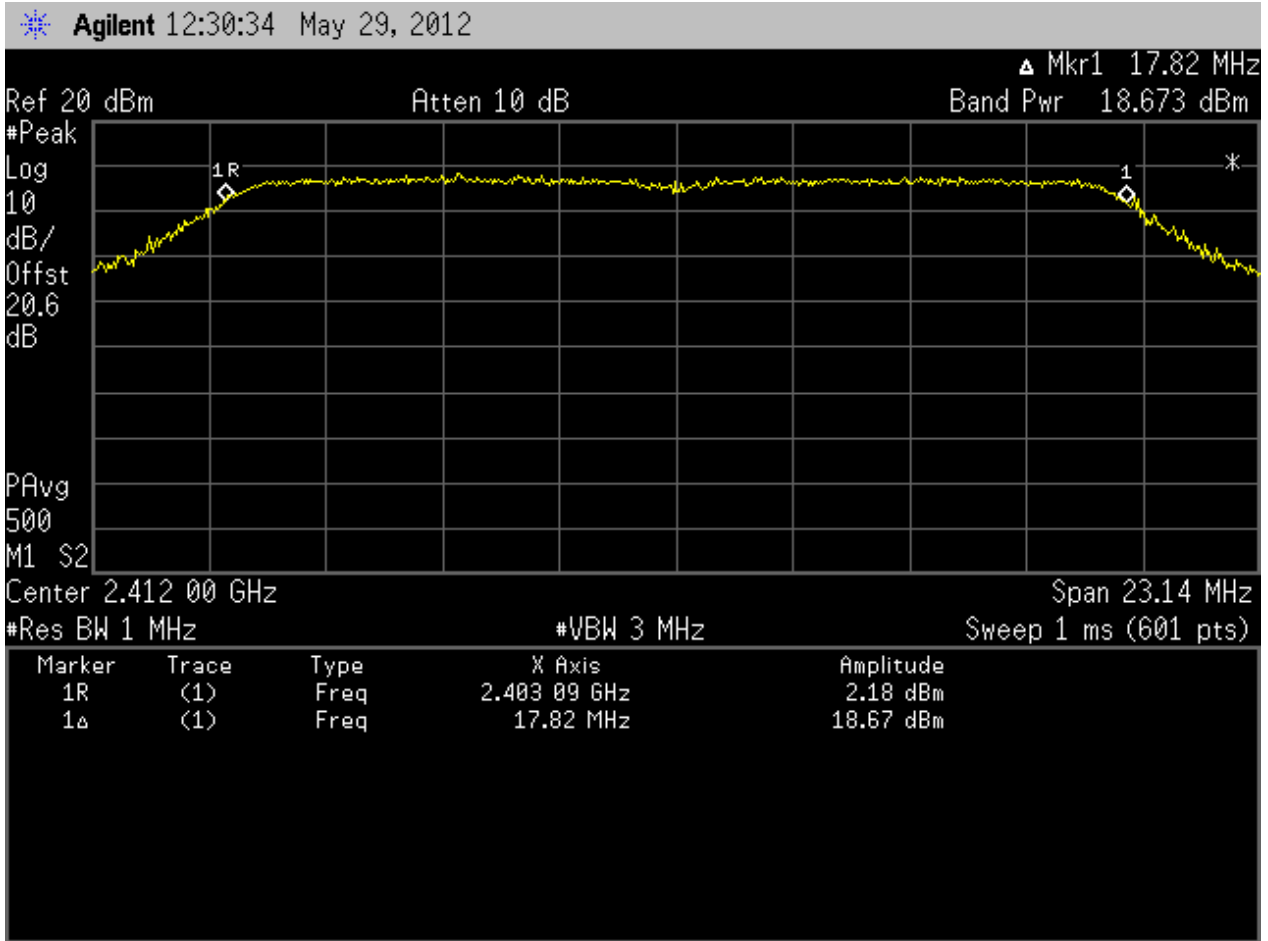
2.1811N20/0\_T@2



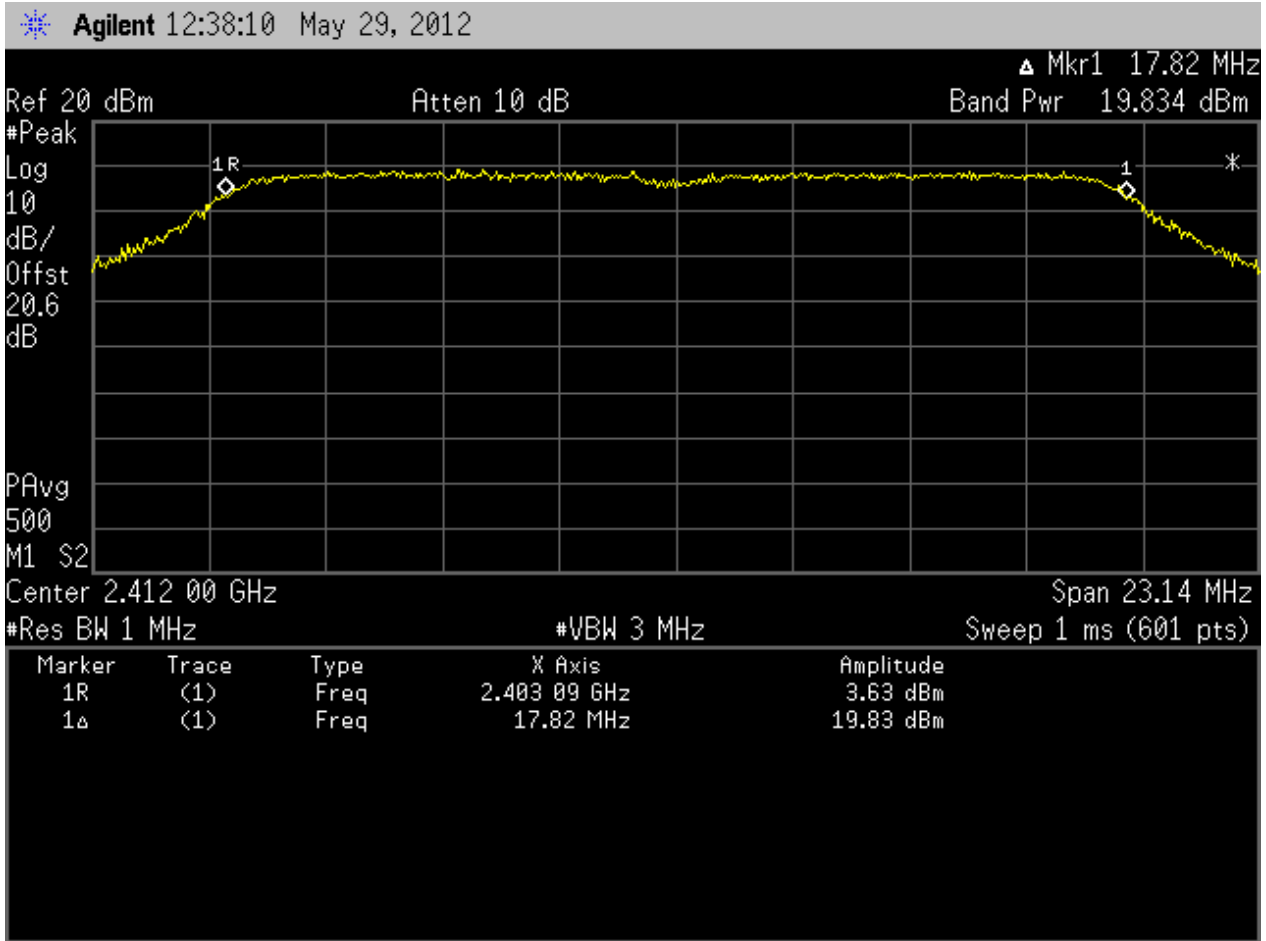
2.1911N20m/8\_B@1+2

2.19.1 Ant 1



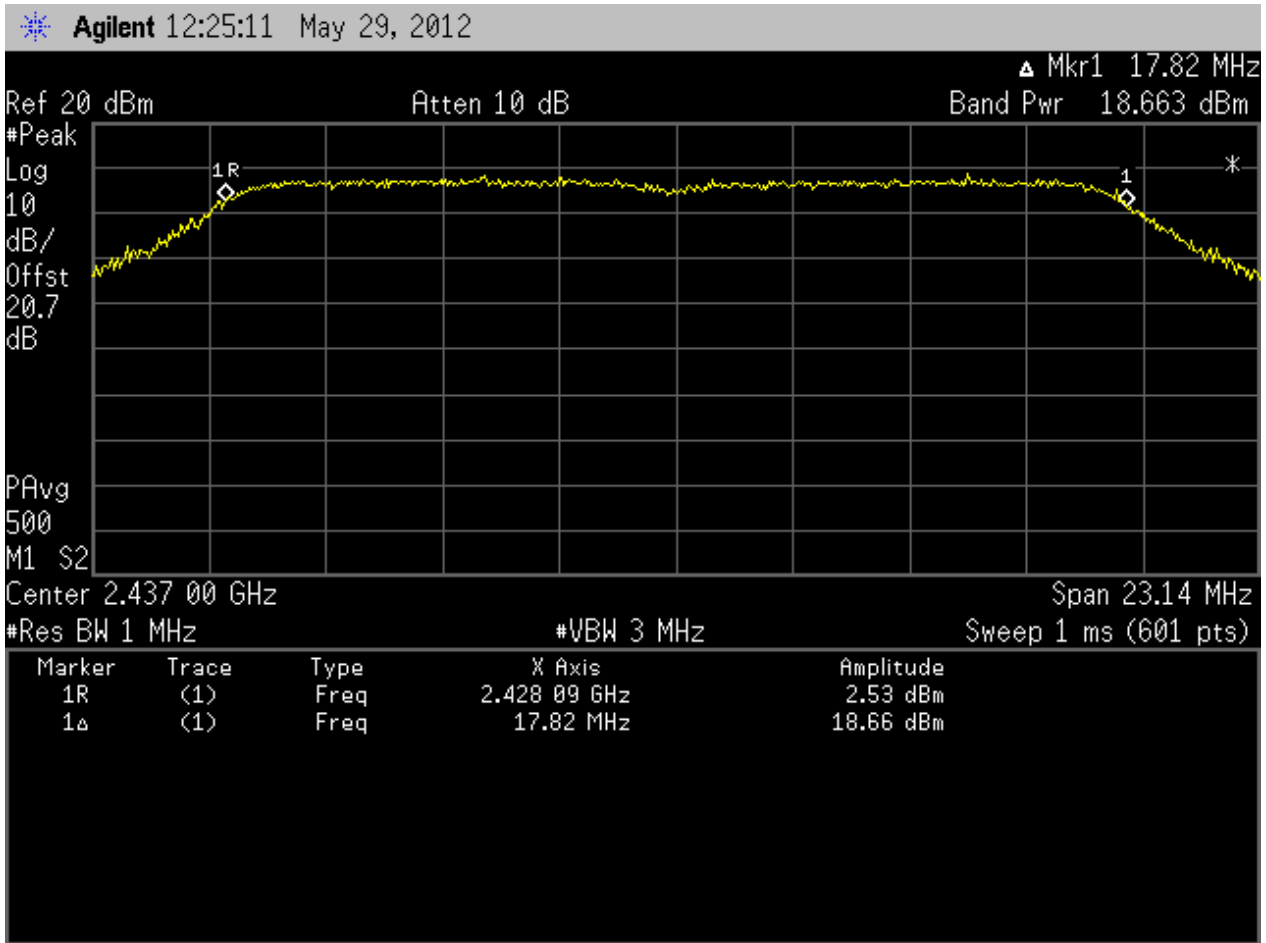


### 2.19.2 Ant 2

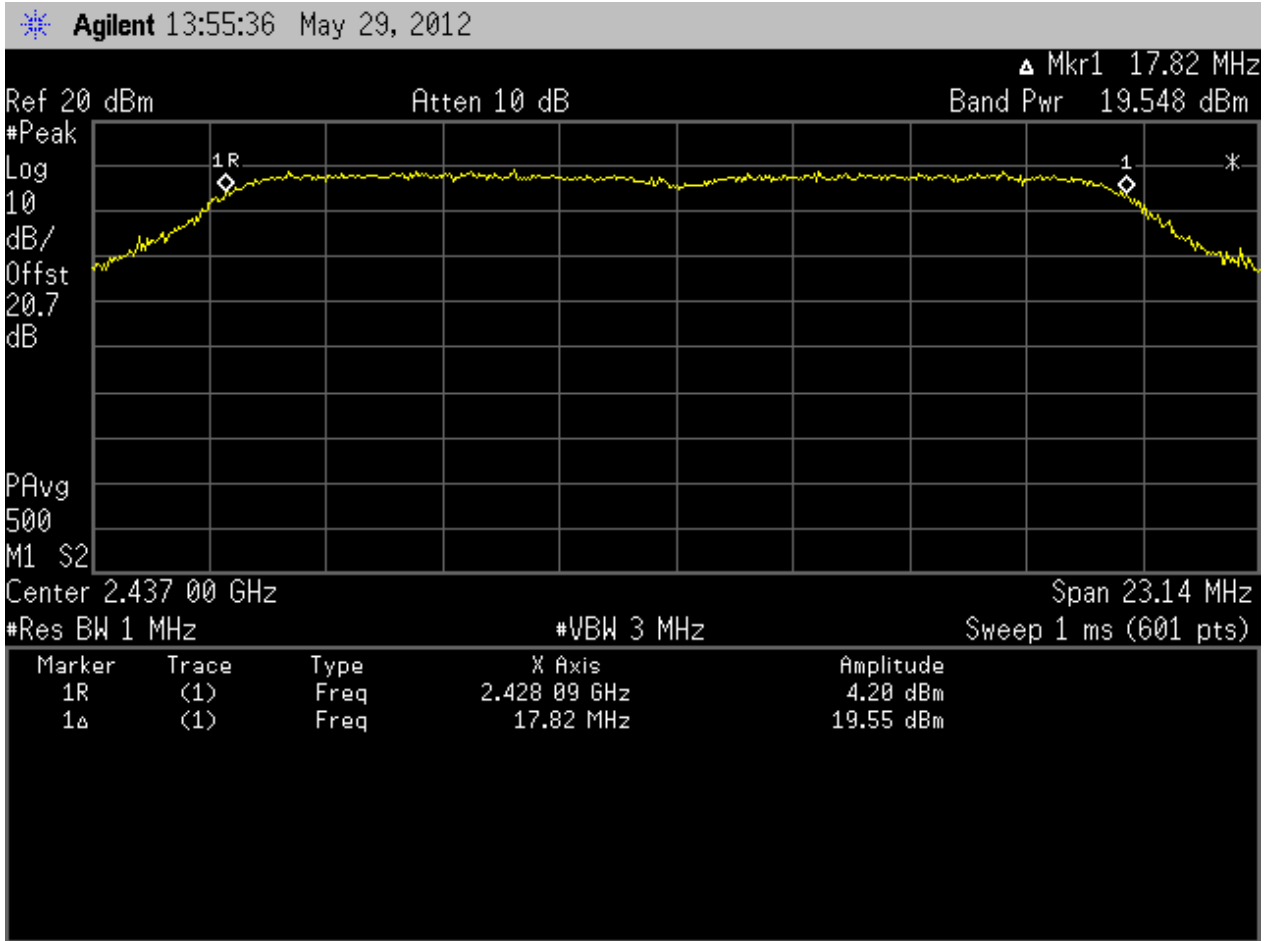


2.2011N20m/8\_M@1+2

2.20.1 Ant 1

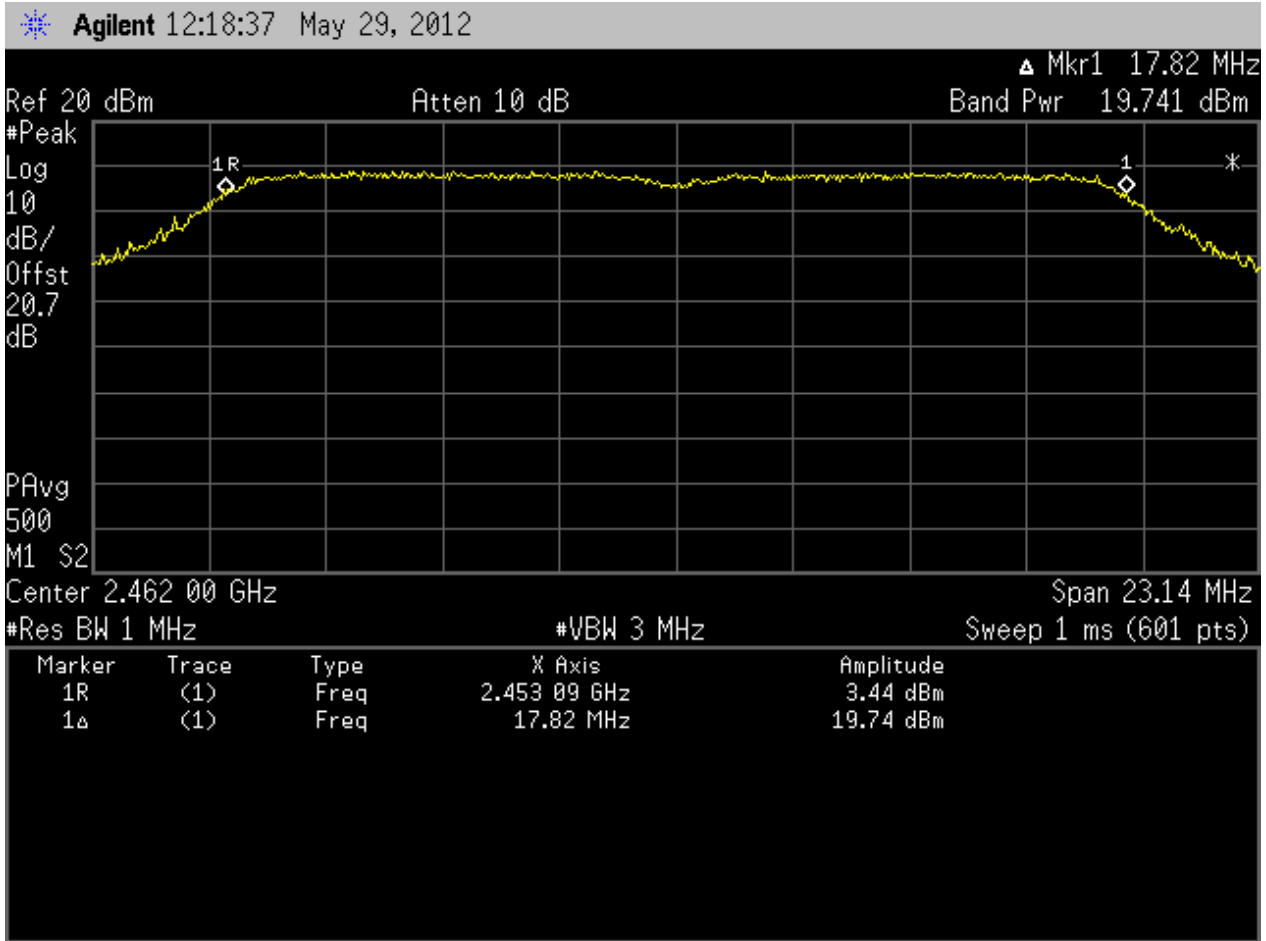


### 2.20.2 Ant 2

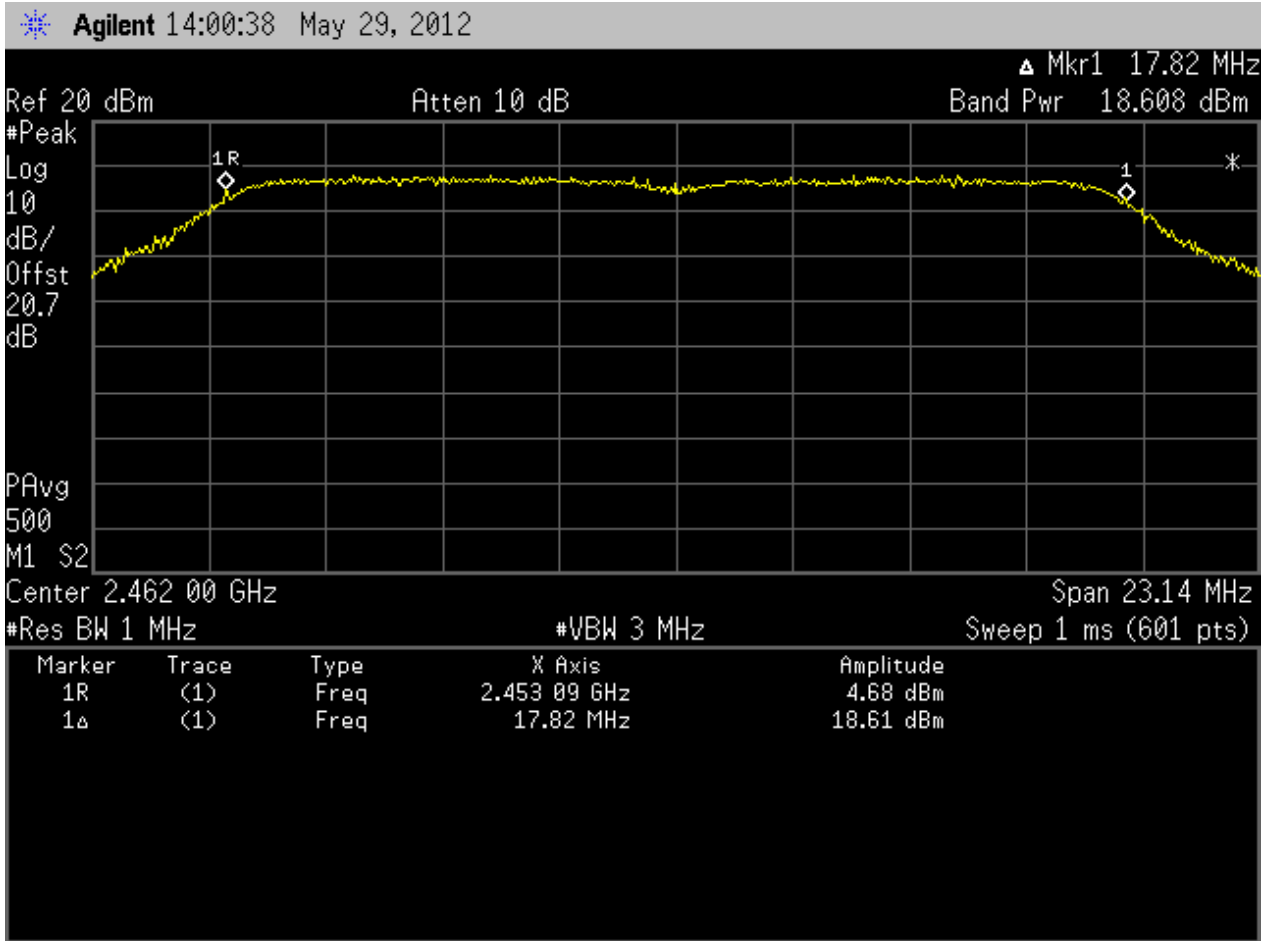


## 2.2111N20m/8\_T@1+2

### 2.21.1 Ant 1



2.21.2 Ant 2





# Appendix C: Maximum Power Spectral Density Level



## 1 Result Table

NOTE 1: In this Appendix, the PD\* refers to the measured “Maximum Power Spectral Density” value with 100 kHz RBW. According to the description of FCC OET KDB 558074, the final result PD should be adjusted based on the PD\* with a factor of BWCF =  $10 * \lg(3 \text{ kHz}/100 \text{ kHz}) = -15.2 \text{ dB}$  (i.e.  $\text{PD} [\text{dBm}/3 \text{ kHz}] = \text{PD}^* [\text{dBm}/100 \text{ kHz}] - 15.2 [\text{dB}]$ ).

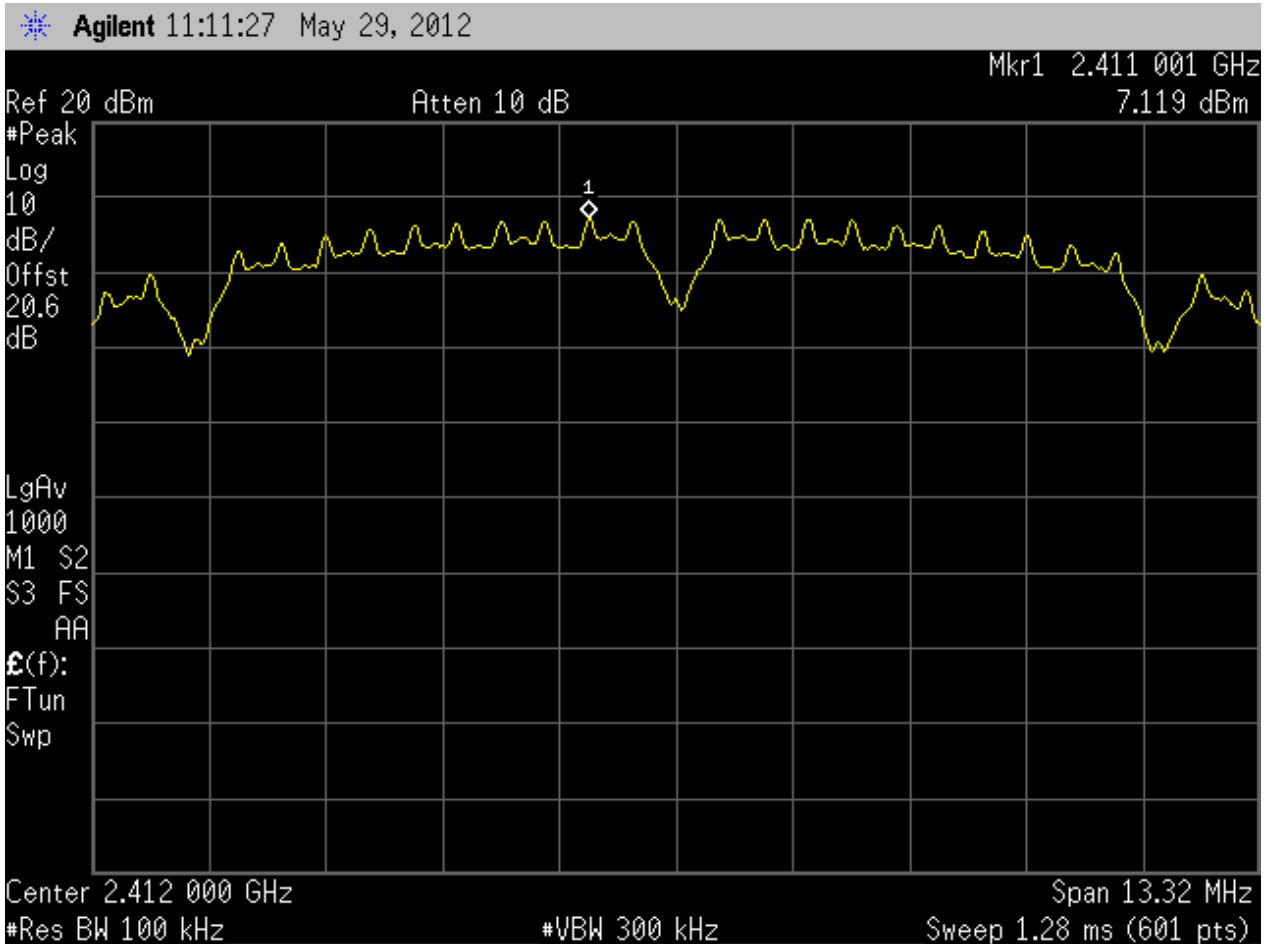
NOTE 2: For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and then combined into the final result PD\* or PD which is the calculated linear sum of each result “PD\*@Ant i” or “PD@Ant i” with  $i = 1$  to N (the N denotes the antenna ports used by smart antenna systems). It should be noted that the method is a worse consideration (for convenience, the linear sum frequency by frequency for each antenna port is not used), because each “PD\*@Ant i” or “PD@Ant i” value maybe correspond to different frequency occurrence.

EUT Conf.	PD*@Ant 1 [dBm/100 kHz]	PD*@Ant 2 [dBm/100 kHz]	PD [dBm/3kHz]	Verdict
11B/1_B@1	7.12	---	-8.08	Pass
11B/1_B@2	---	4.98	-10.22	Pass
11B/1_M@1	5.45	---	-9.75	Pass
11B/1_M@2	---	4.85	-10.35	Pass
11B/1_T@1	5.06	---	-10.14	Pass
11B/1_T@2	---	4.69	-10.51	Pass
11G/6_B@1	0.95	---	-14.25	Pass
11G/6_B@2	---	0.74	-14.46	Pass
11G/6_M@1	0.62	---	-14.58	Pass
11G/6_M@2	---	0.44	-14.76	Pass
11G/6_T@1	0.52	---	-14.68	Pass
11G/6_T@2	---	0.61	-14.59	Pass
11N20/0_B@1	0.48	---	-14.72	Pass
11N20/0_B@2	---	-0.31	-15.51	Pass
11N20/0_M@1	0.12	---	-15.08	Pass
11N20/0_M@2	---	-0.01	-15.21	Pass
11N20/0_T@1	0.6	---	-14.6	Pass
11N20/0_T@2	---	-0.19	-15.39	Pass
11N20m/8_B@1+2	-1.71	-0.74	-13.39	Pass
11N20m/8_M@1+2	-1.77	-1.07	-13.6	Pass
11N20m/8_T@1+2	-0.8	-1.43	-13.29	Pass

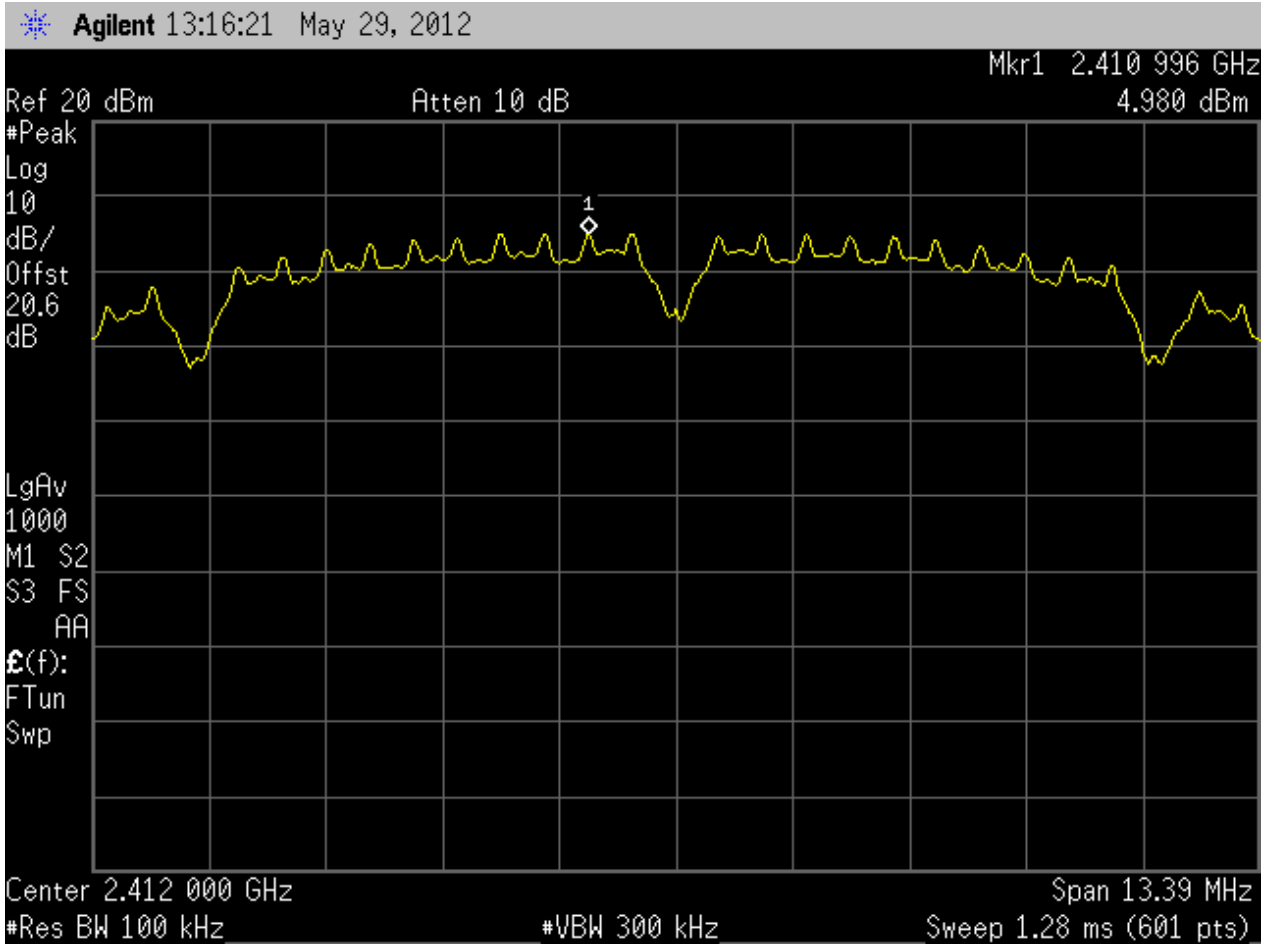


## 2 Test Plot

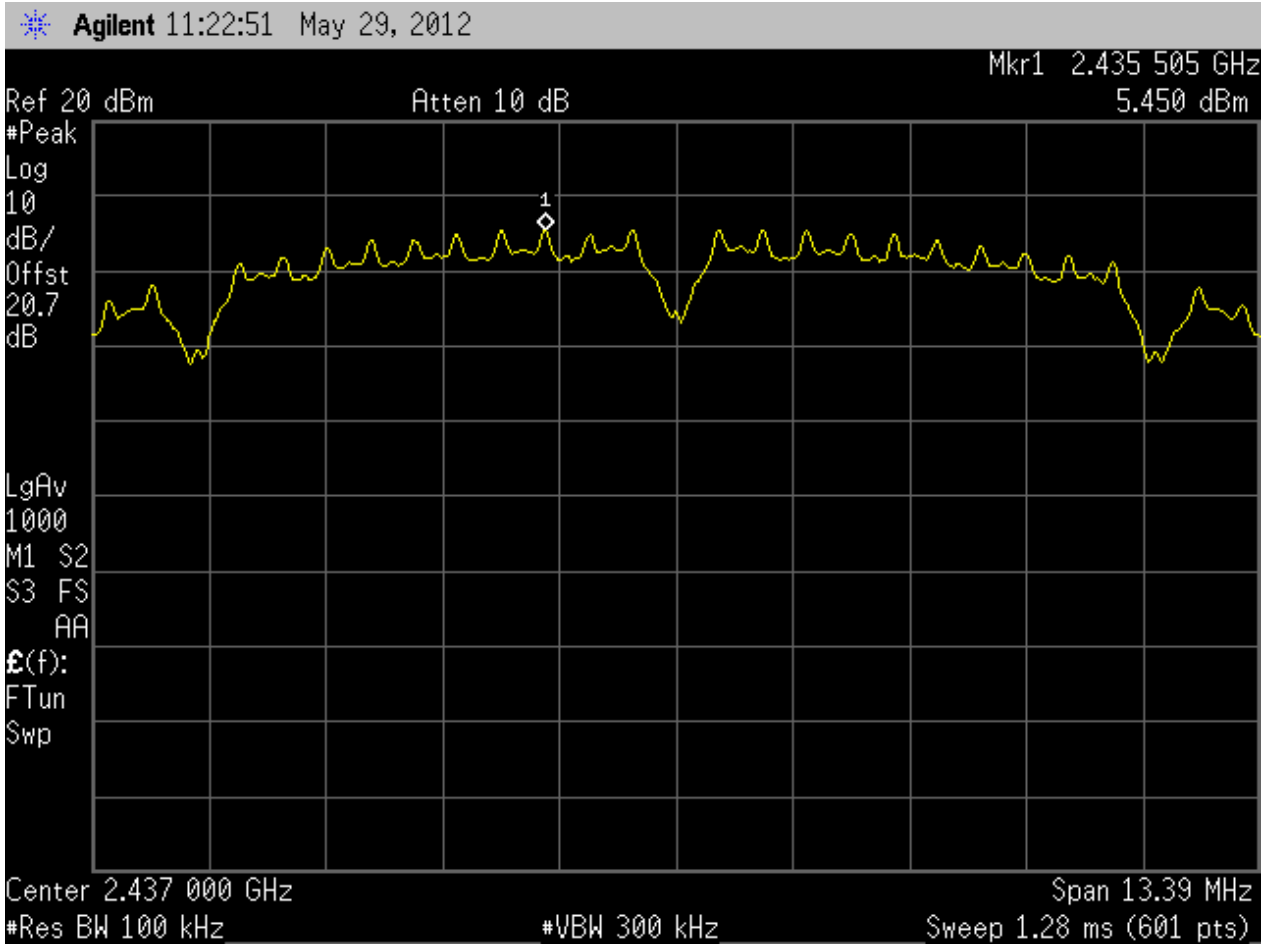
### 2.1 11B/1\_B@1



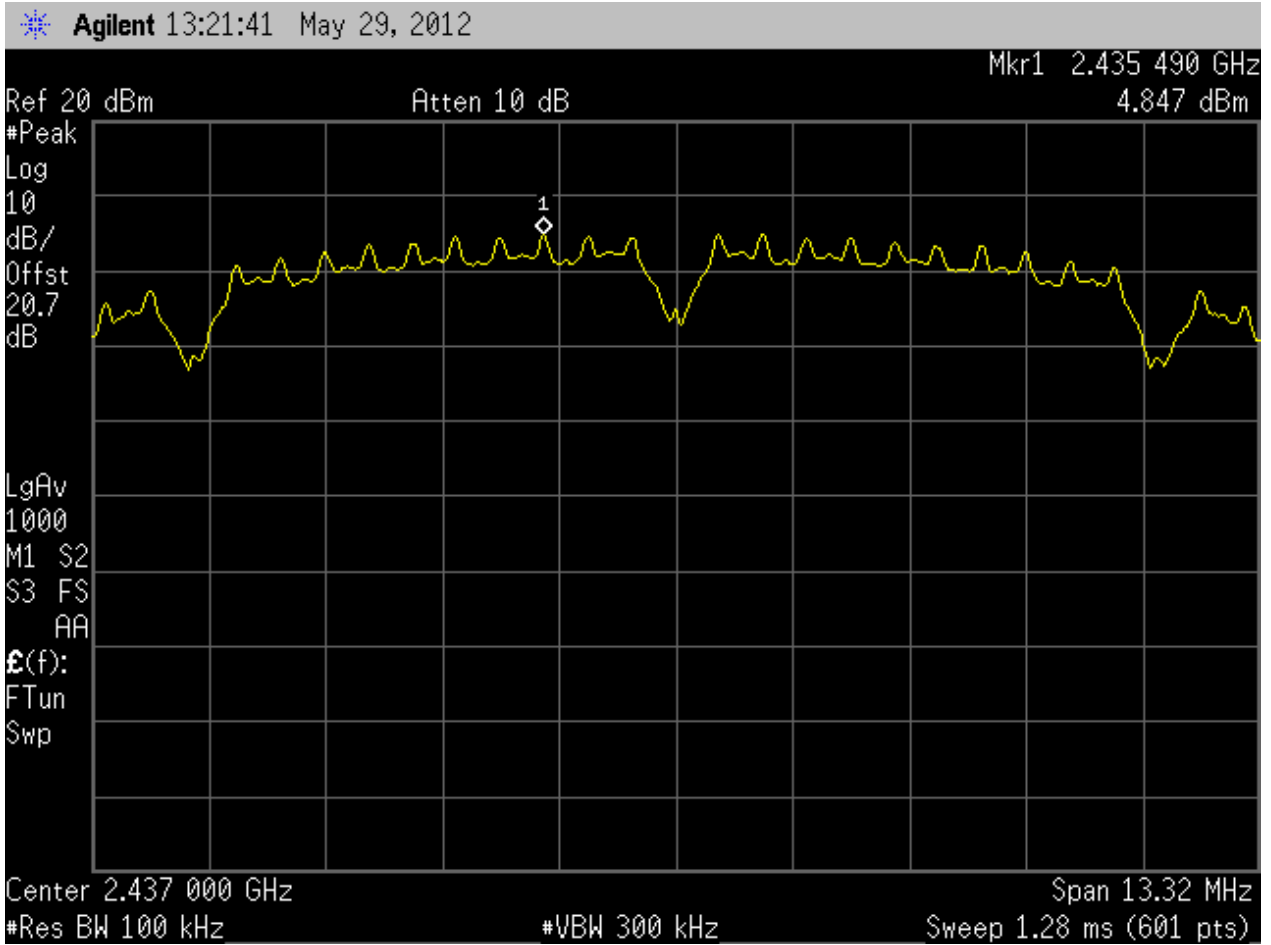
### 2.2 11B/1\_B@2



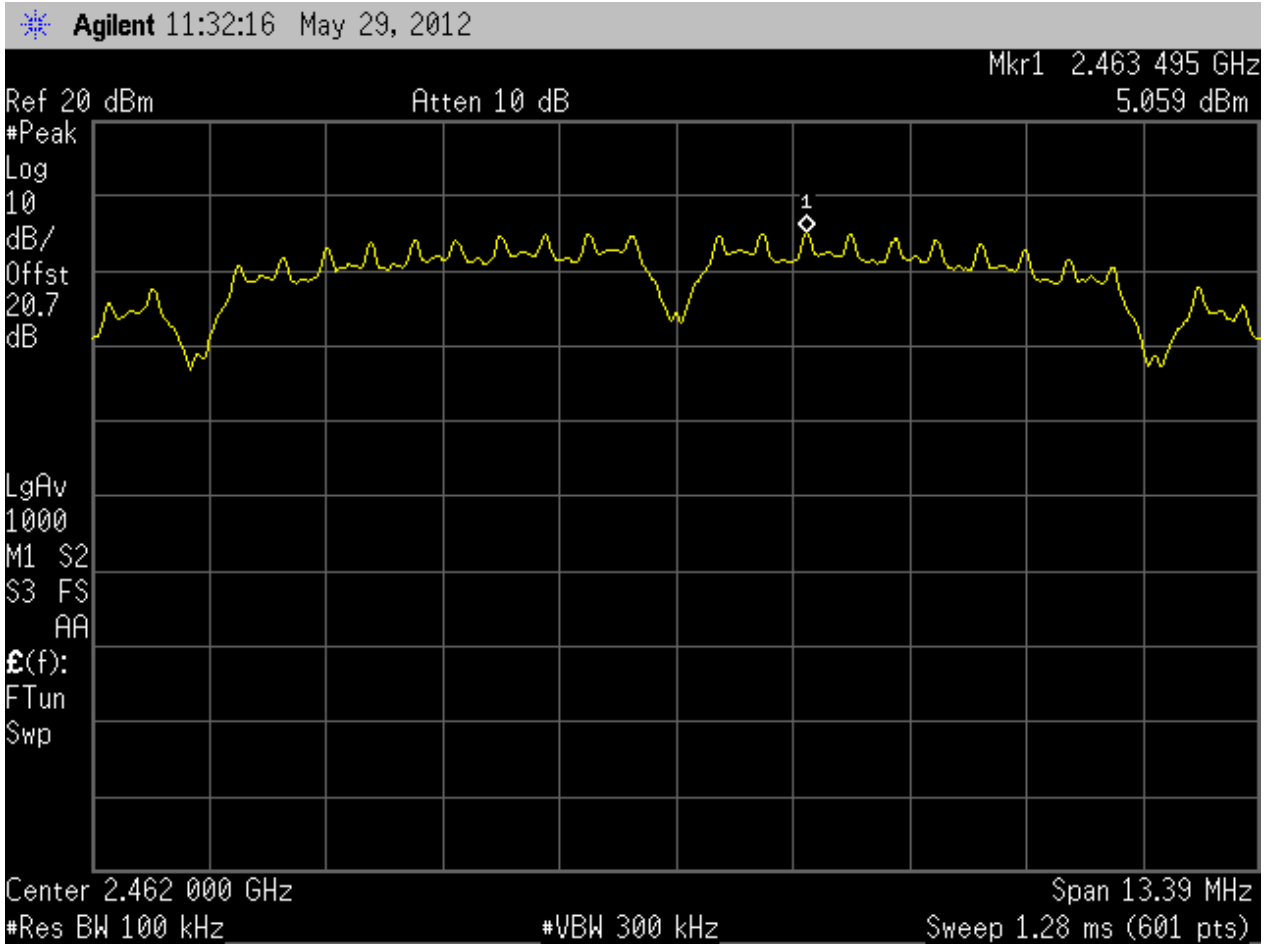
### 2.3 11B/1\_M@1



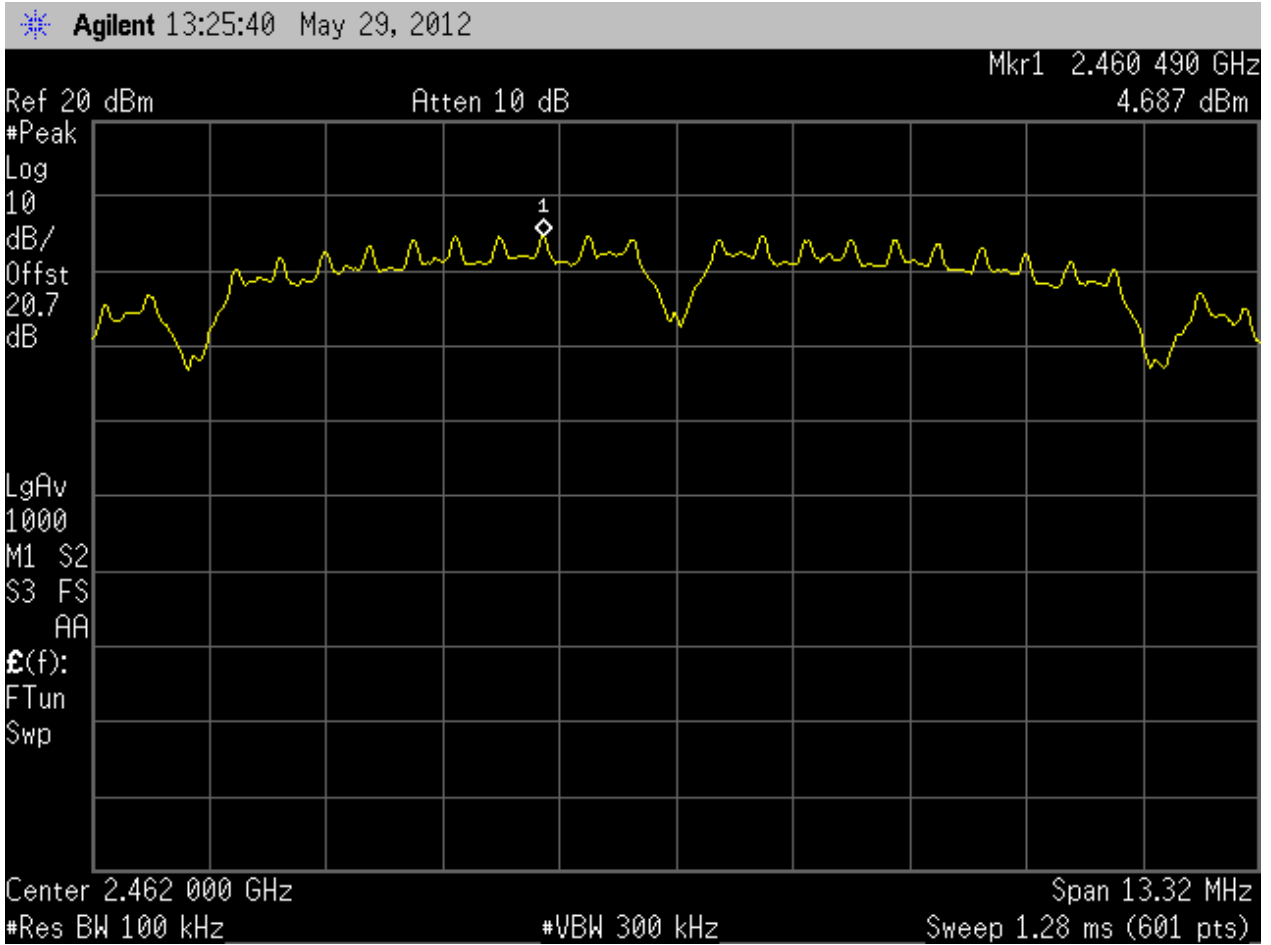
2.4 11B/1\_M@2



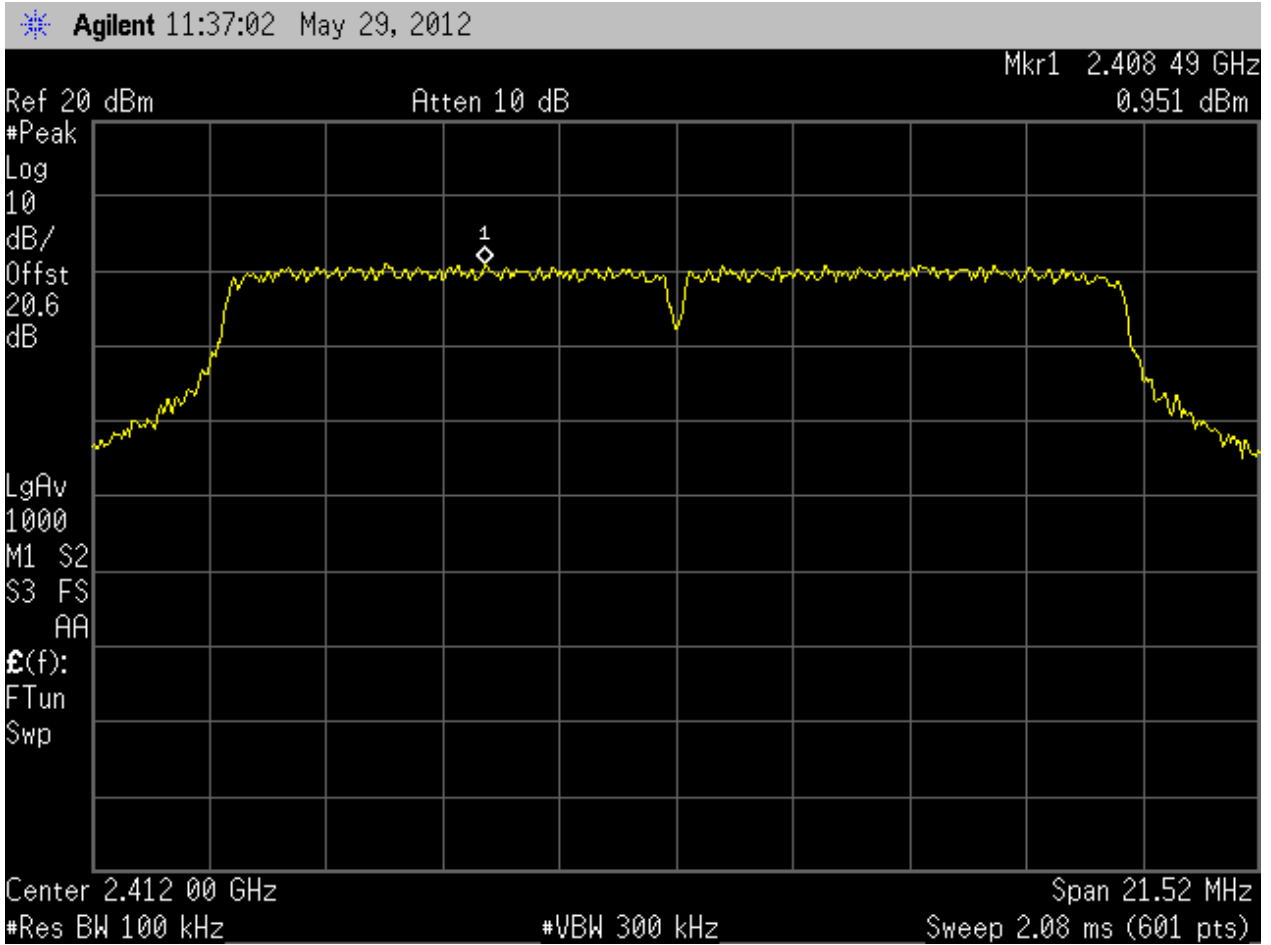
## 2.5 11B/1\_T@1



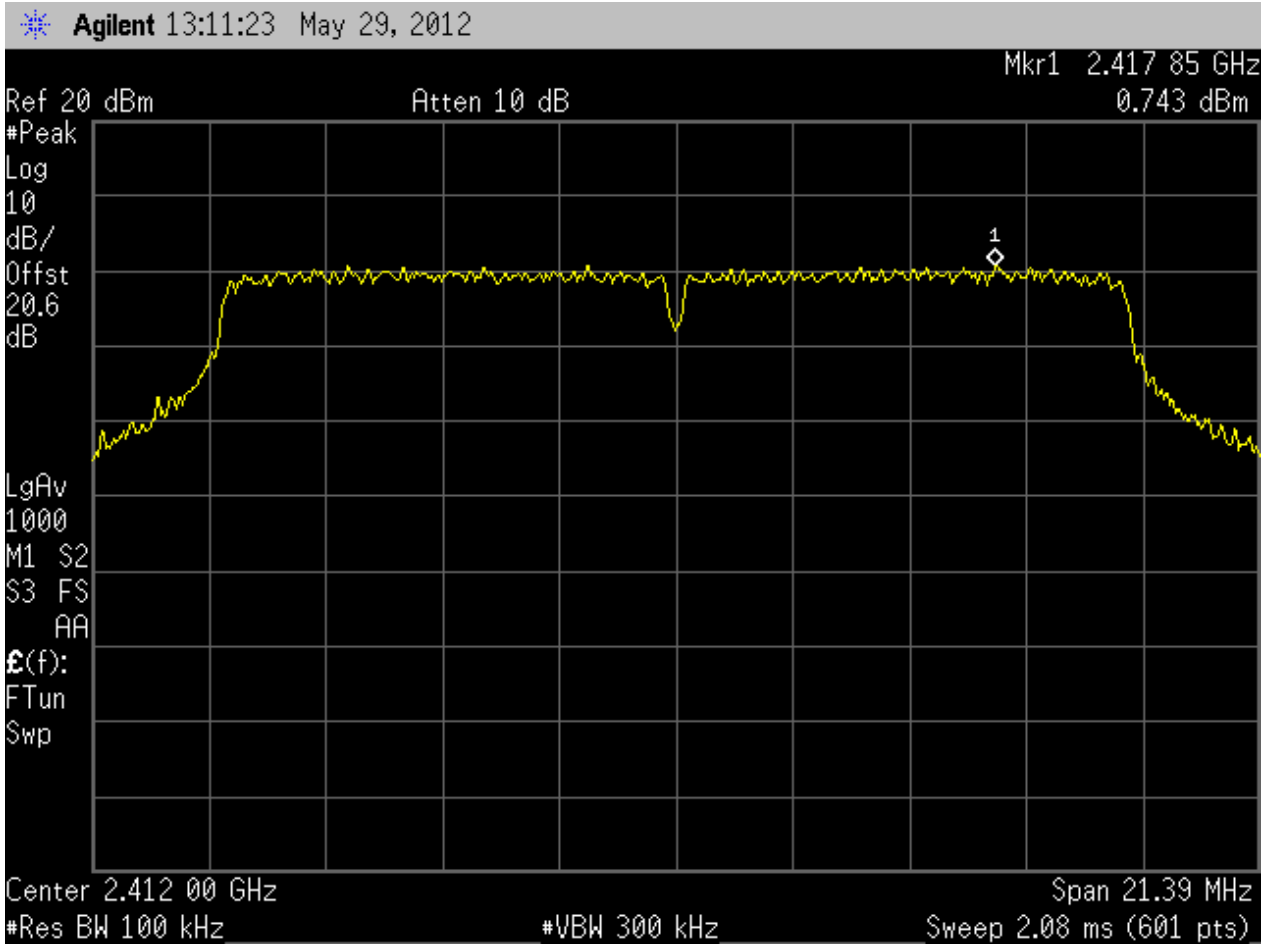
## 2.6 11B/1\_T@2



## 2.7 11G/6\_B@1

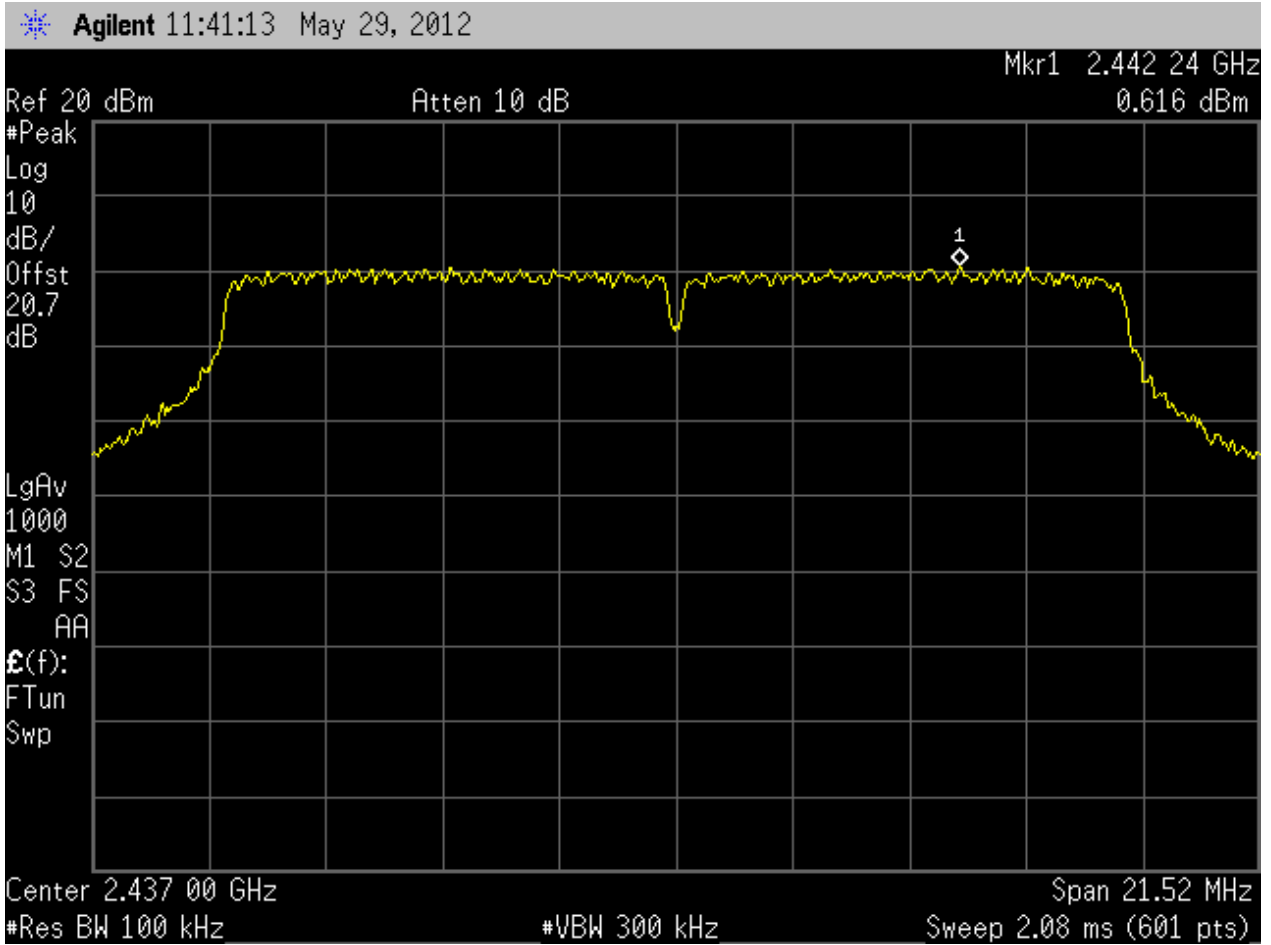


## 2.8 11G/6\_B@2

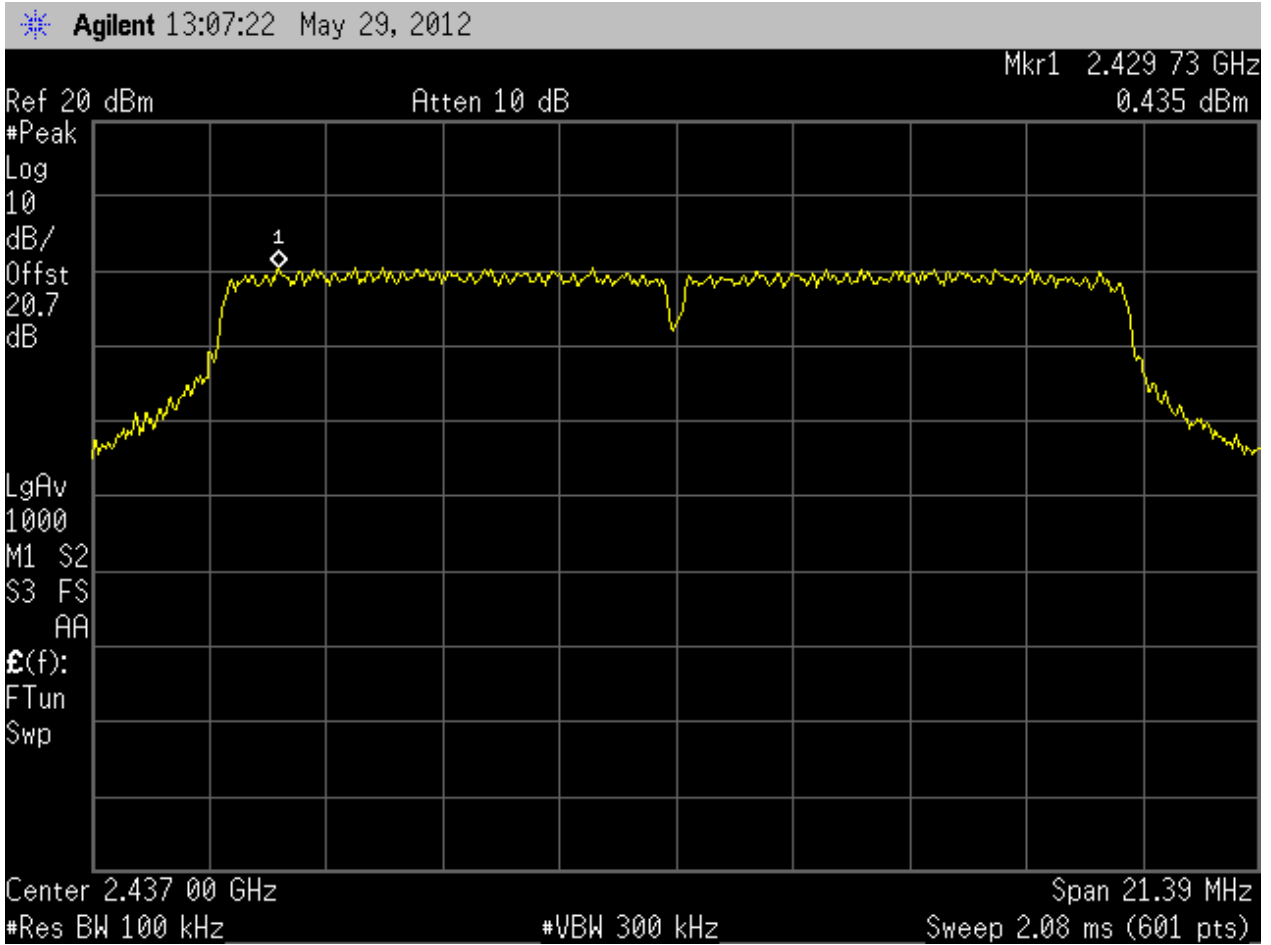


## 2.9 11G/6\_M@1

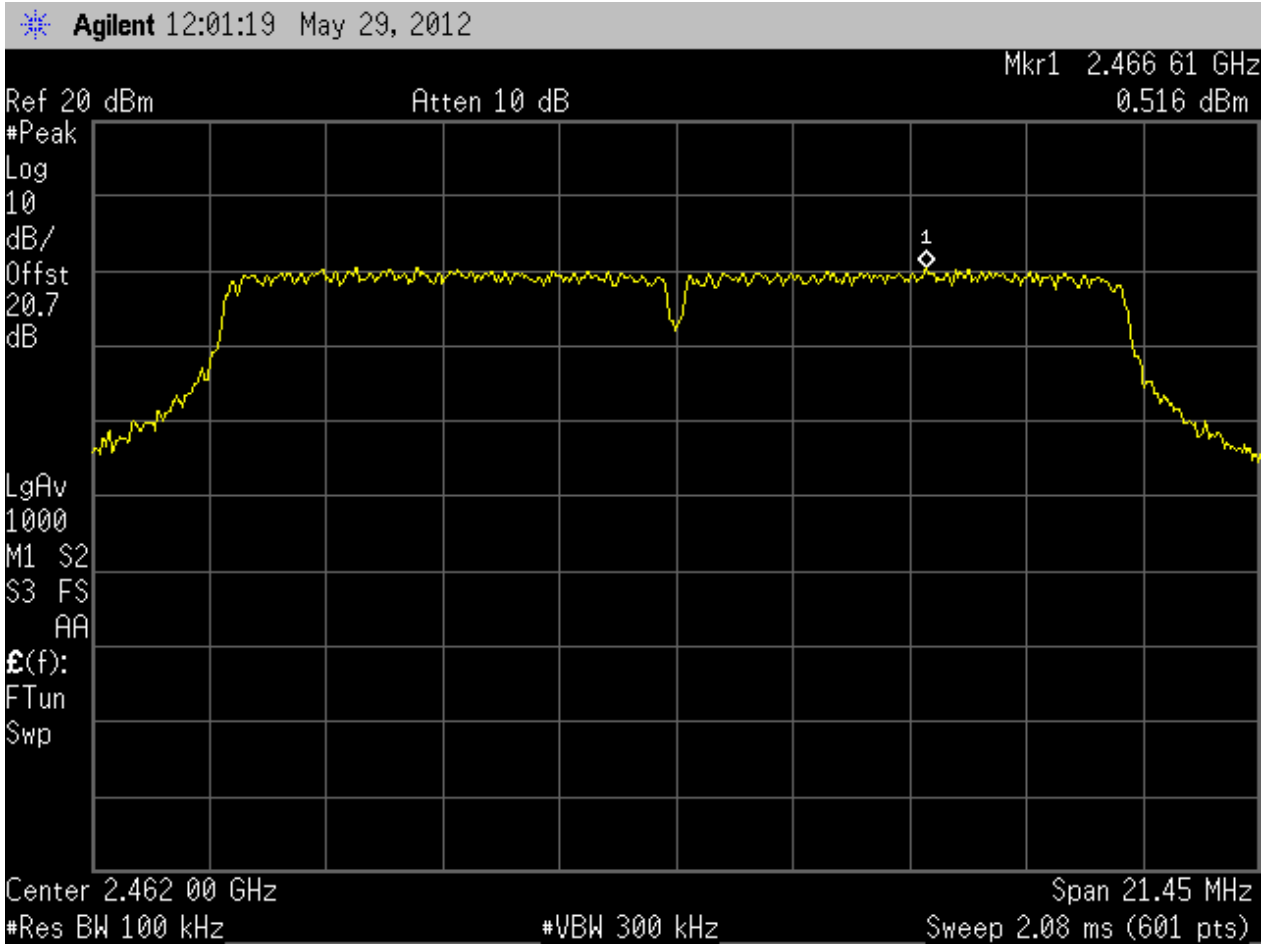




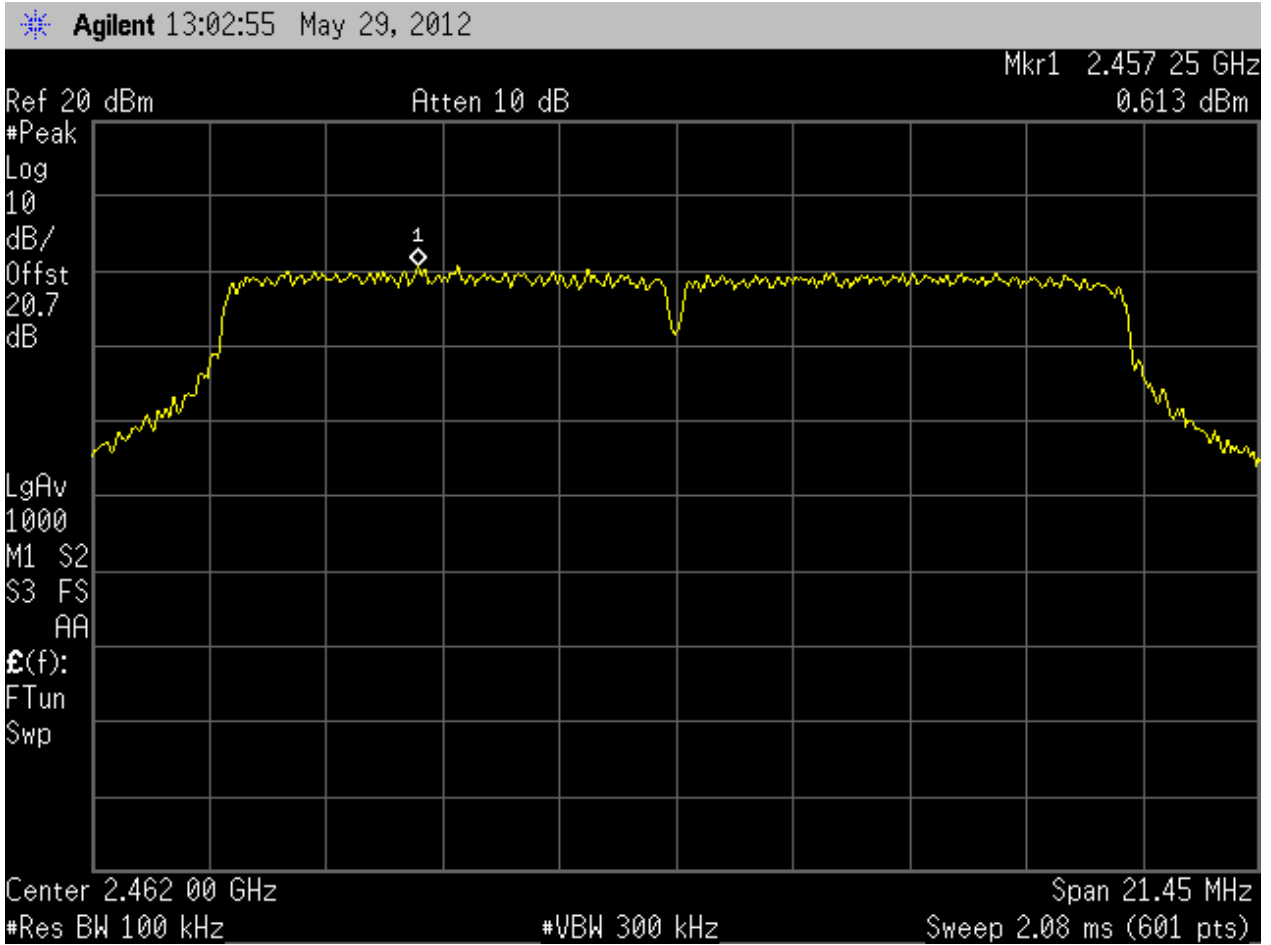
2.1011G/6\_M@2



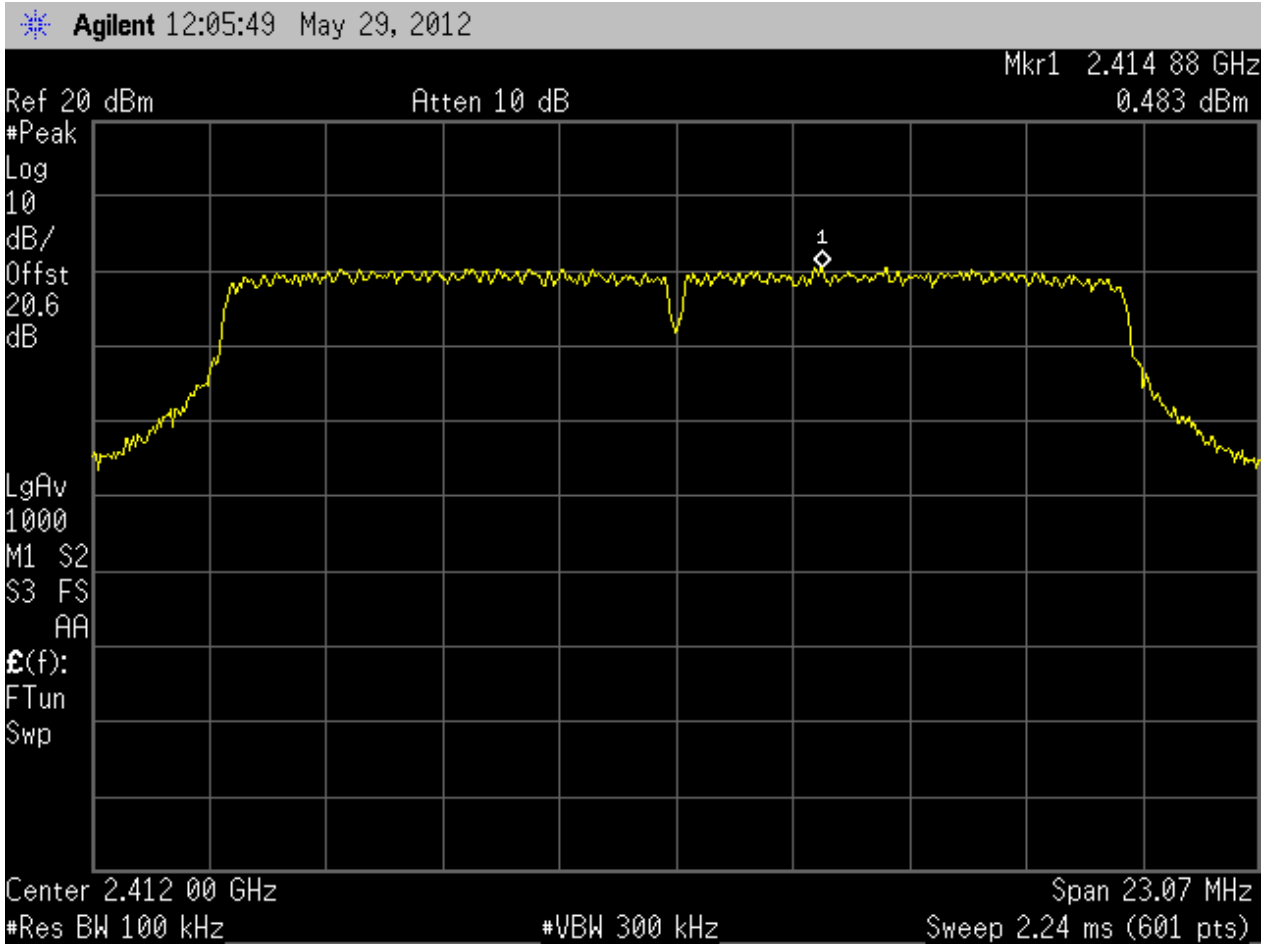
2.1111G/6\_T@1



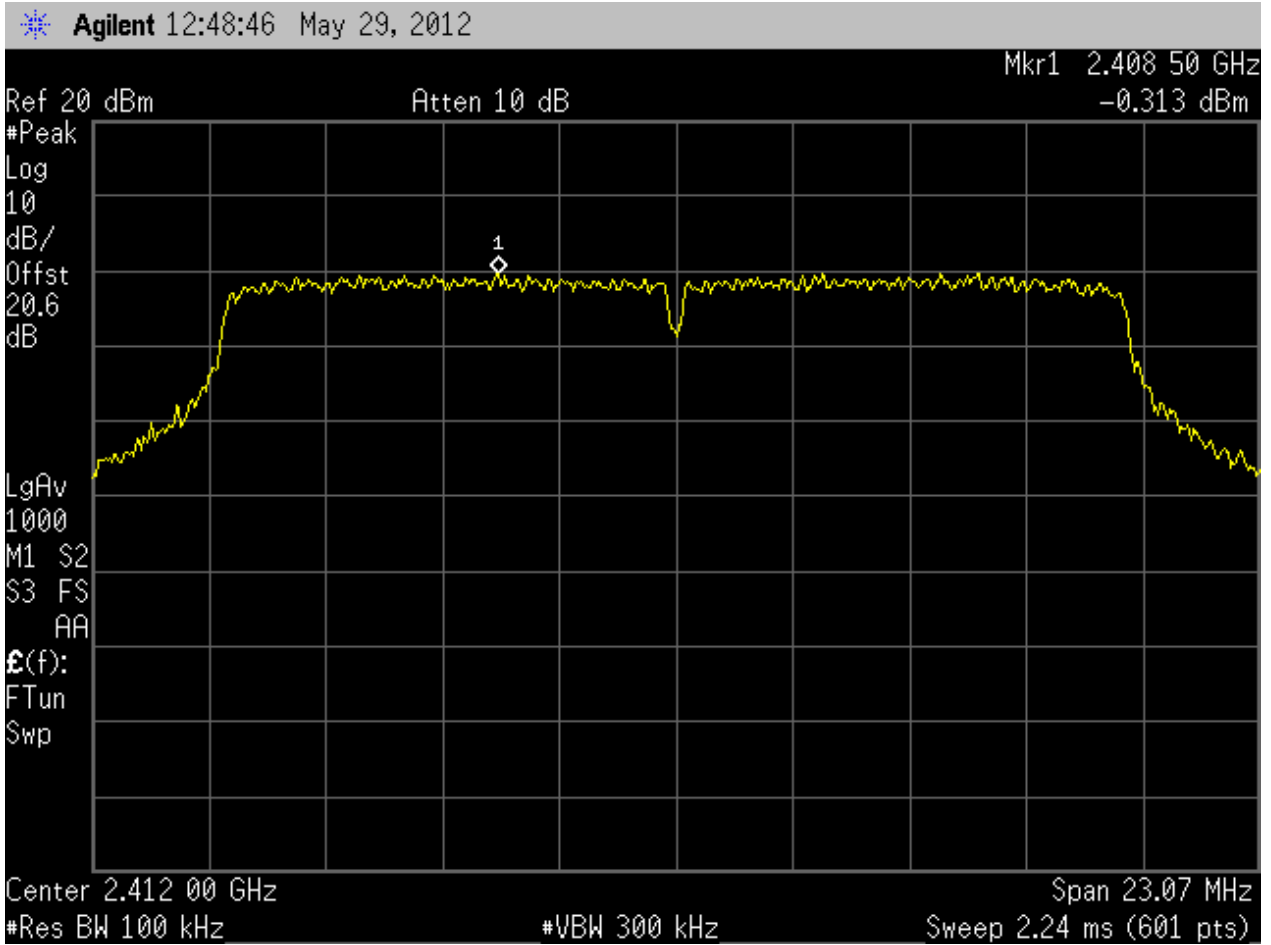
2.1211G/6\_T@2



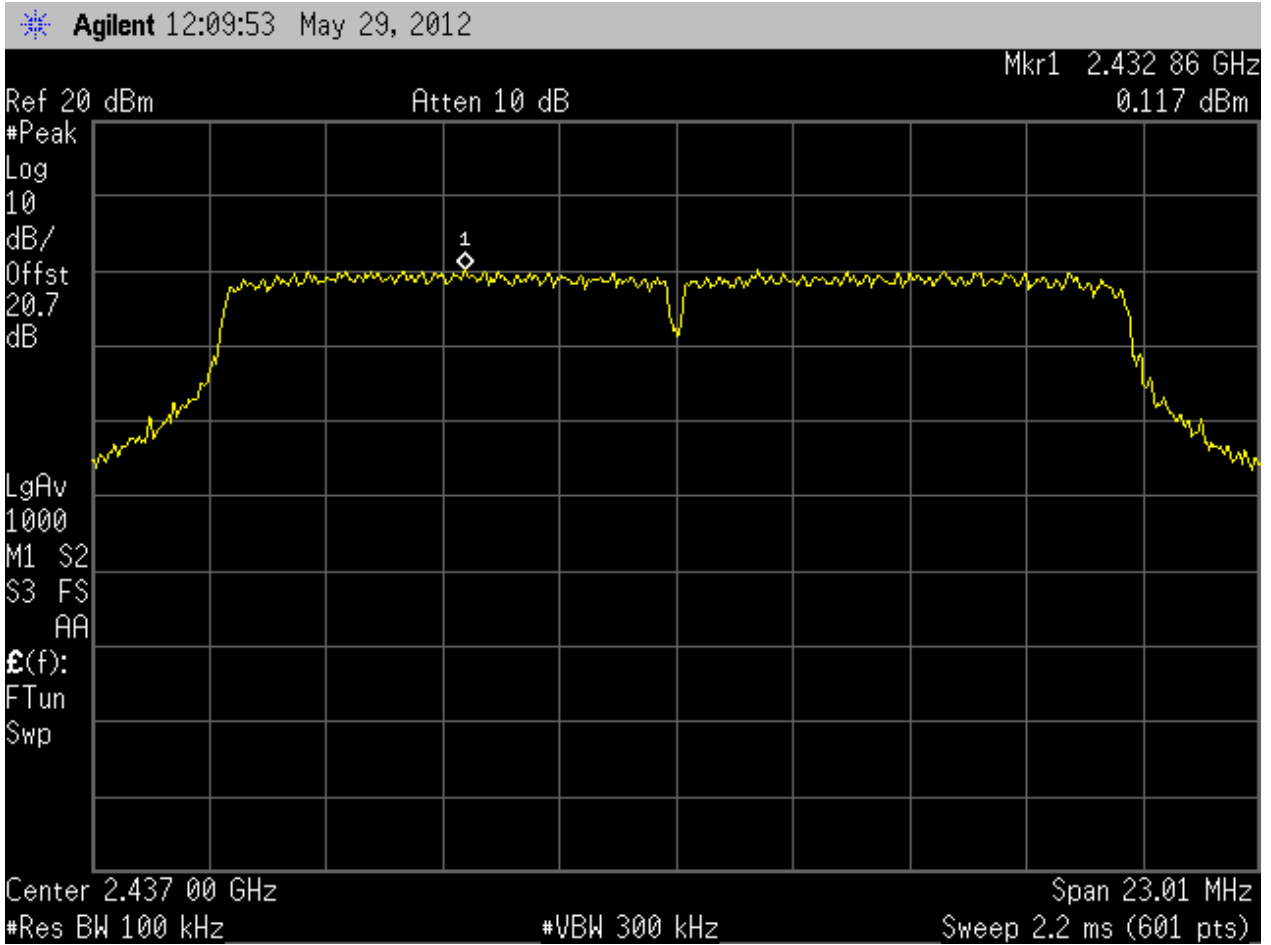
2.1311N20/0\_B@1



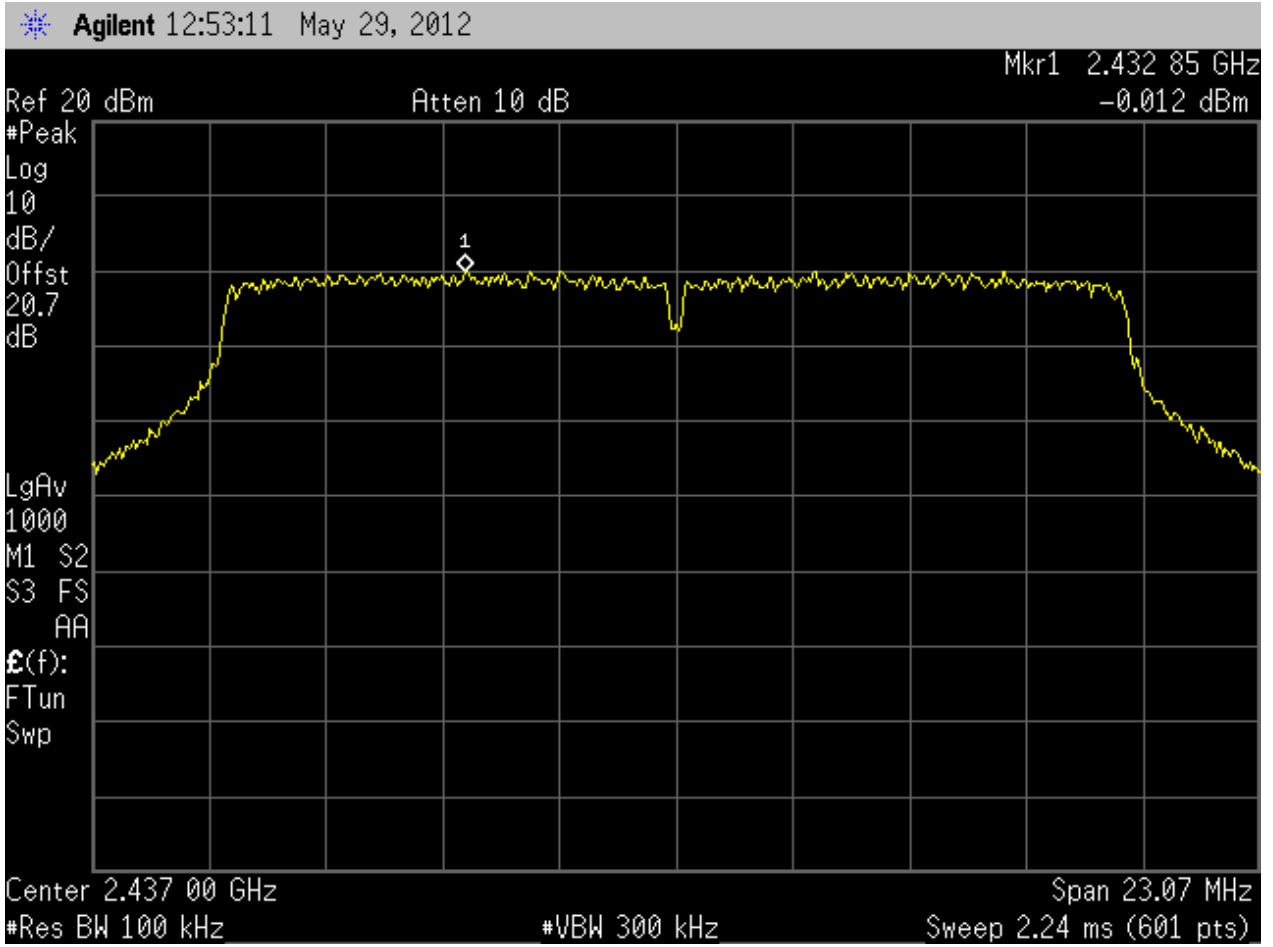
2.1411N20/0\_B@2



2.1511N20/0\_M@1

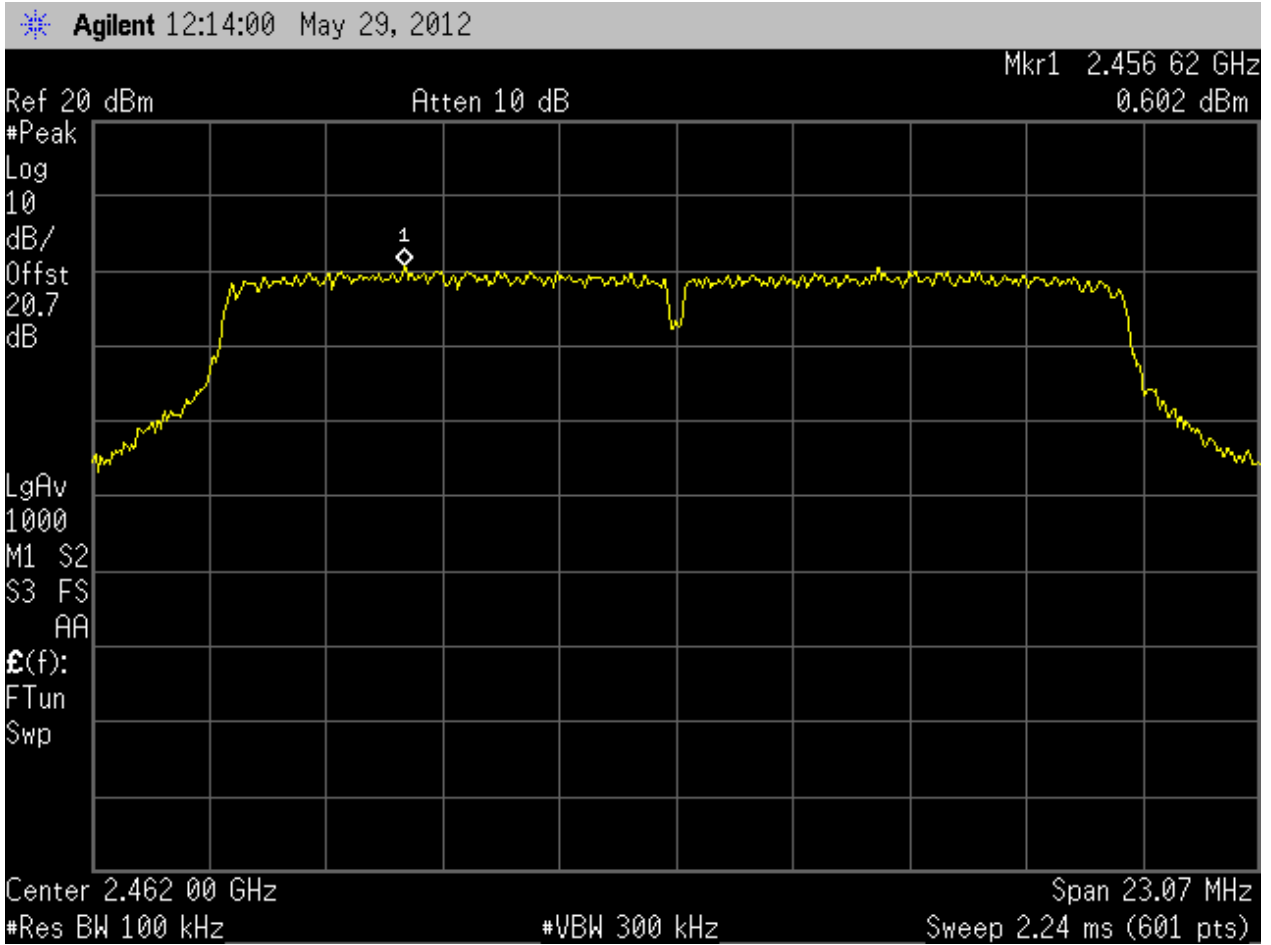


2.1611N20/0\_M@2

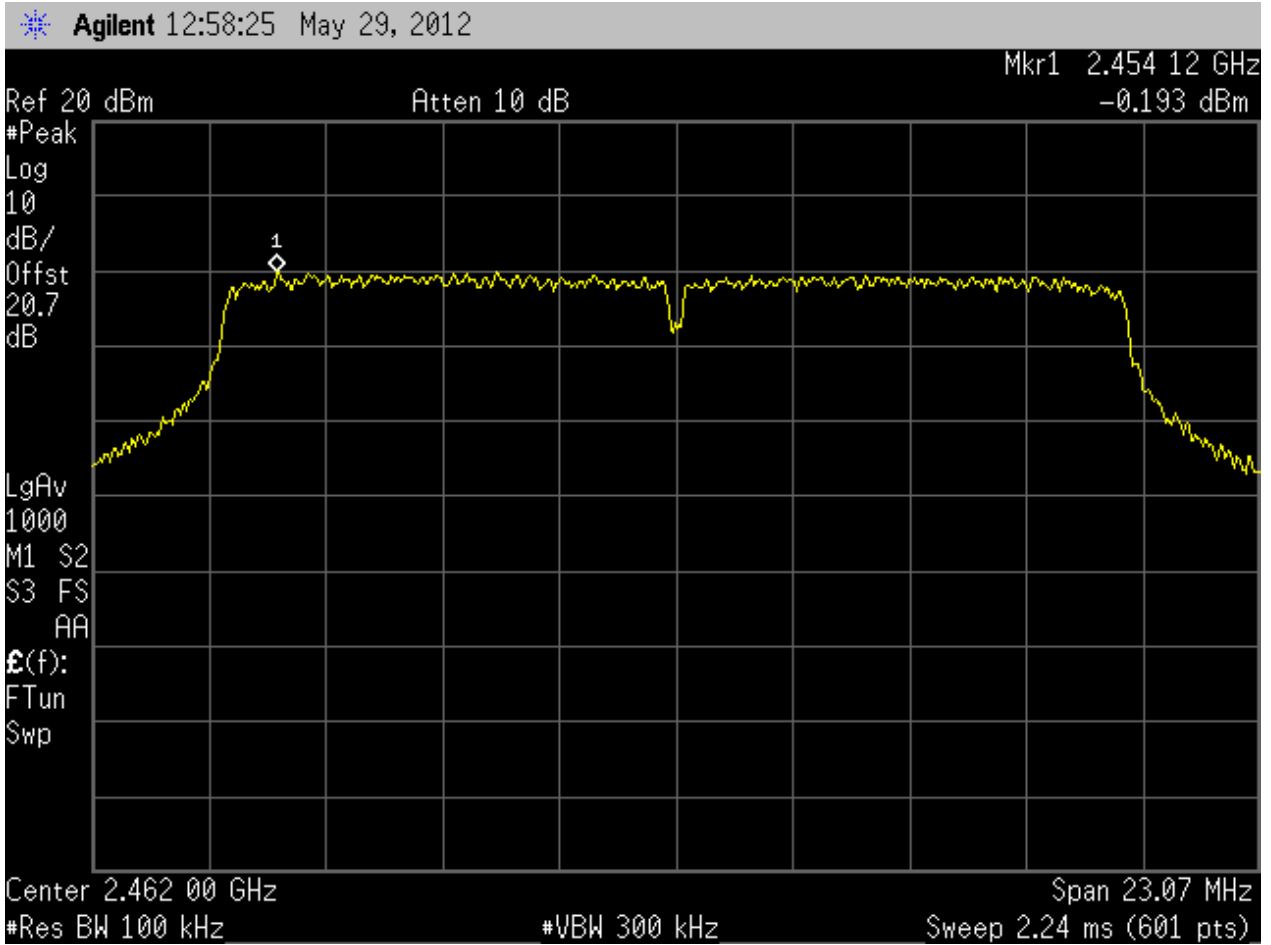


2.1711N20/0\_T@1



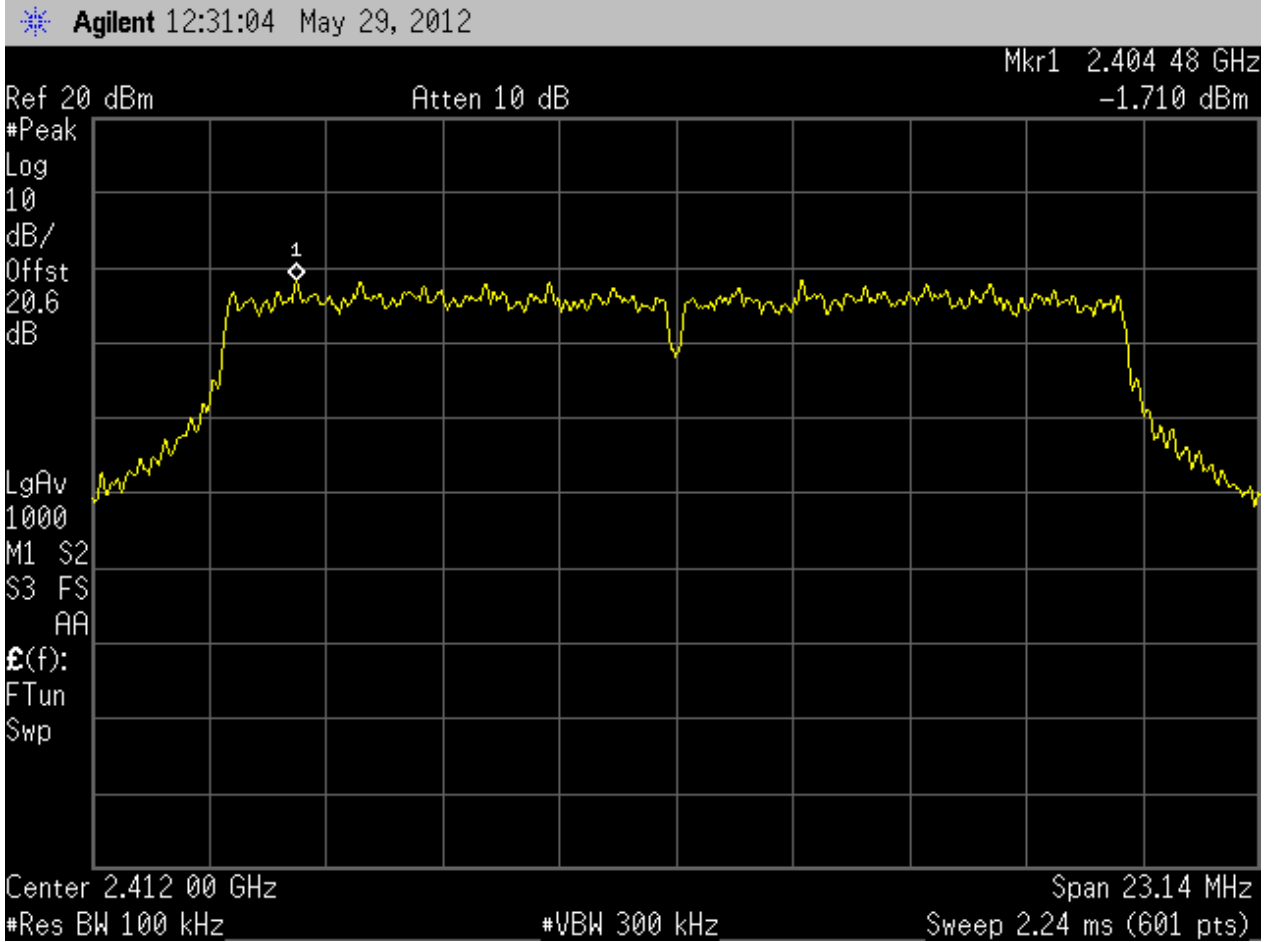


2.1811N20/0\_T@2

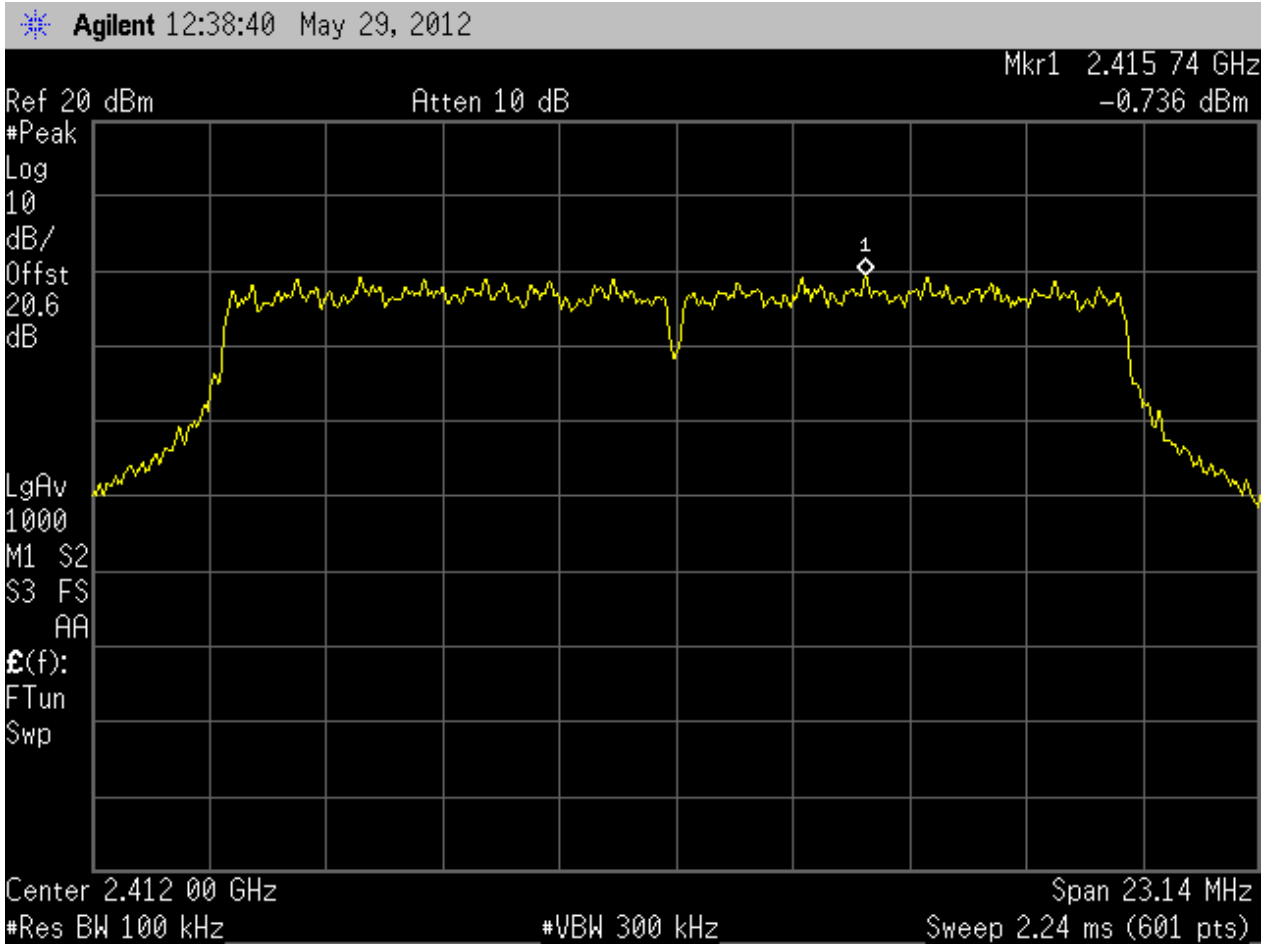


## 2.1911N20m/8\_B@1+2

### 2.19.1 Ant 1

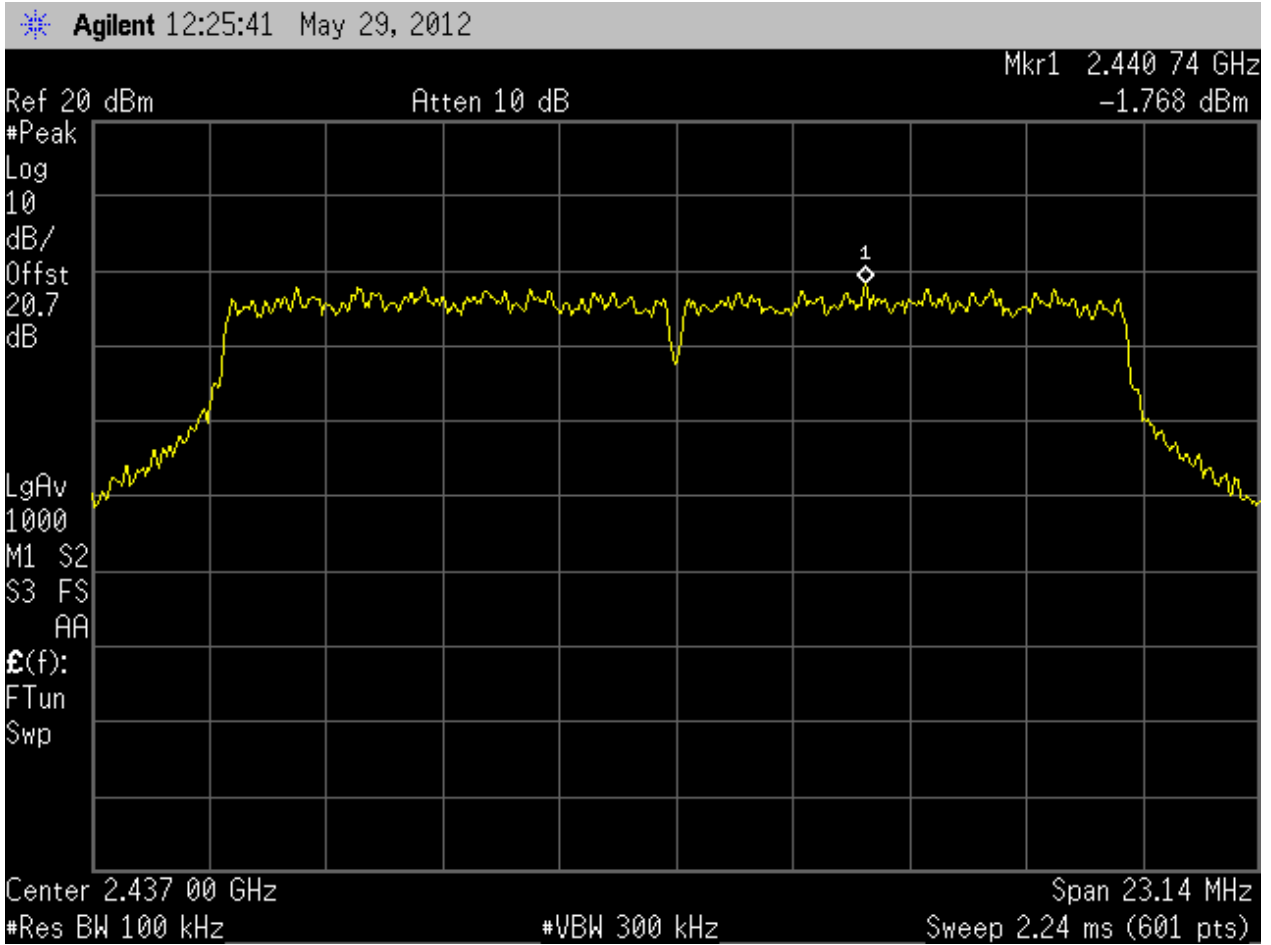


### 2.19.2 Ant 2

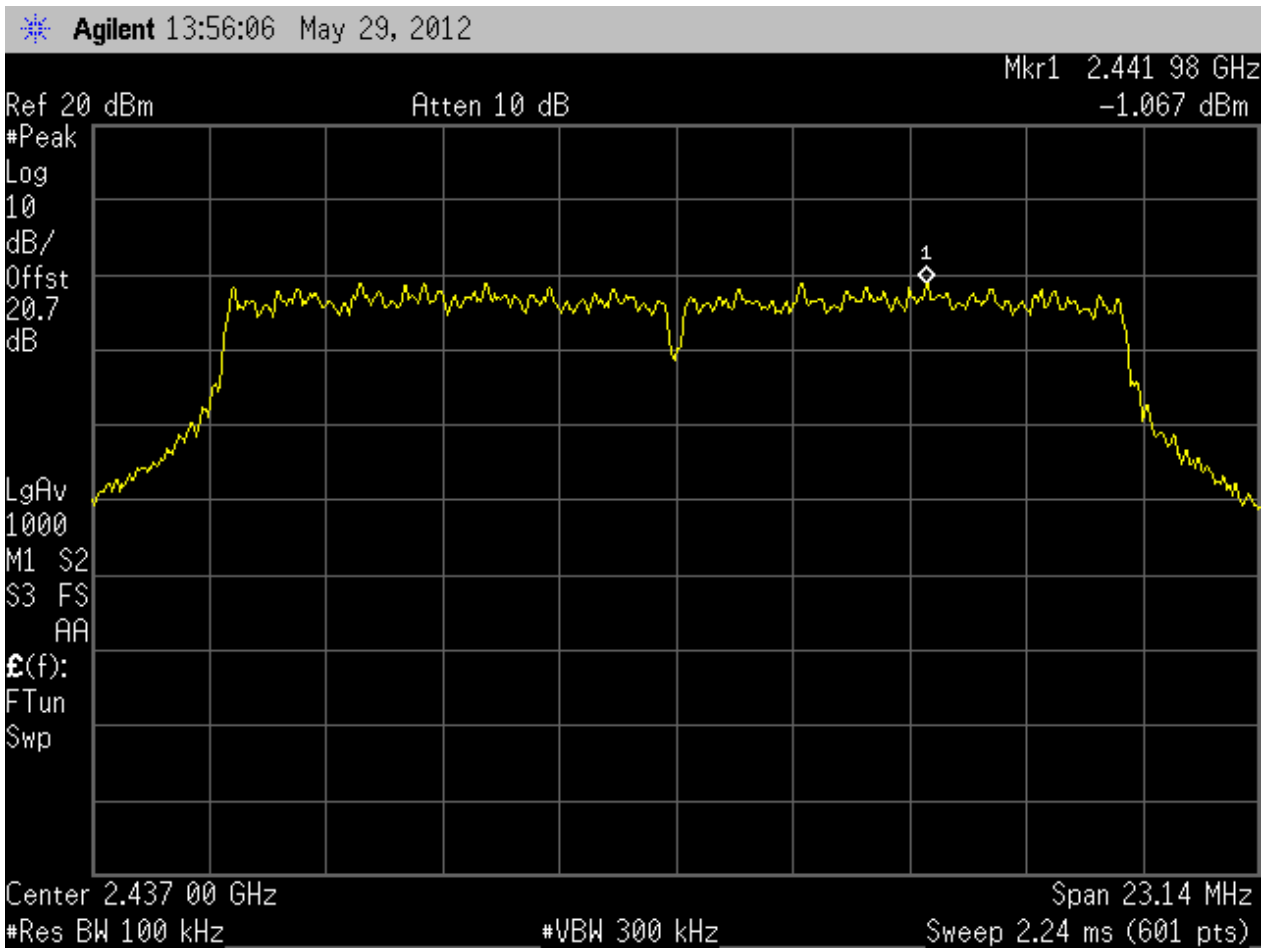


**2.2011N20m/8\_M@1+2**

**2.20.1 Ant 1**

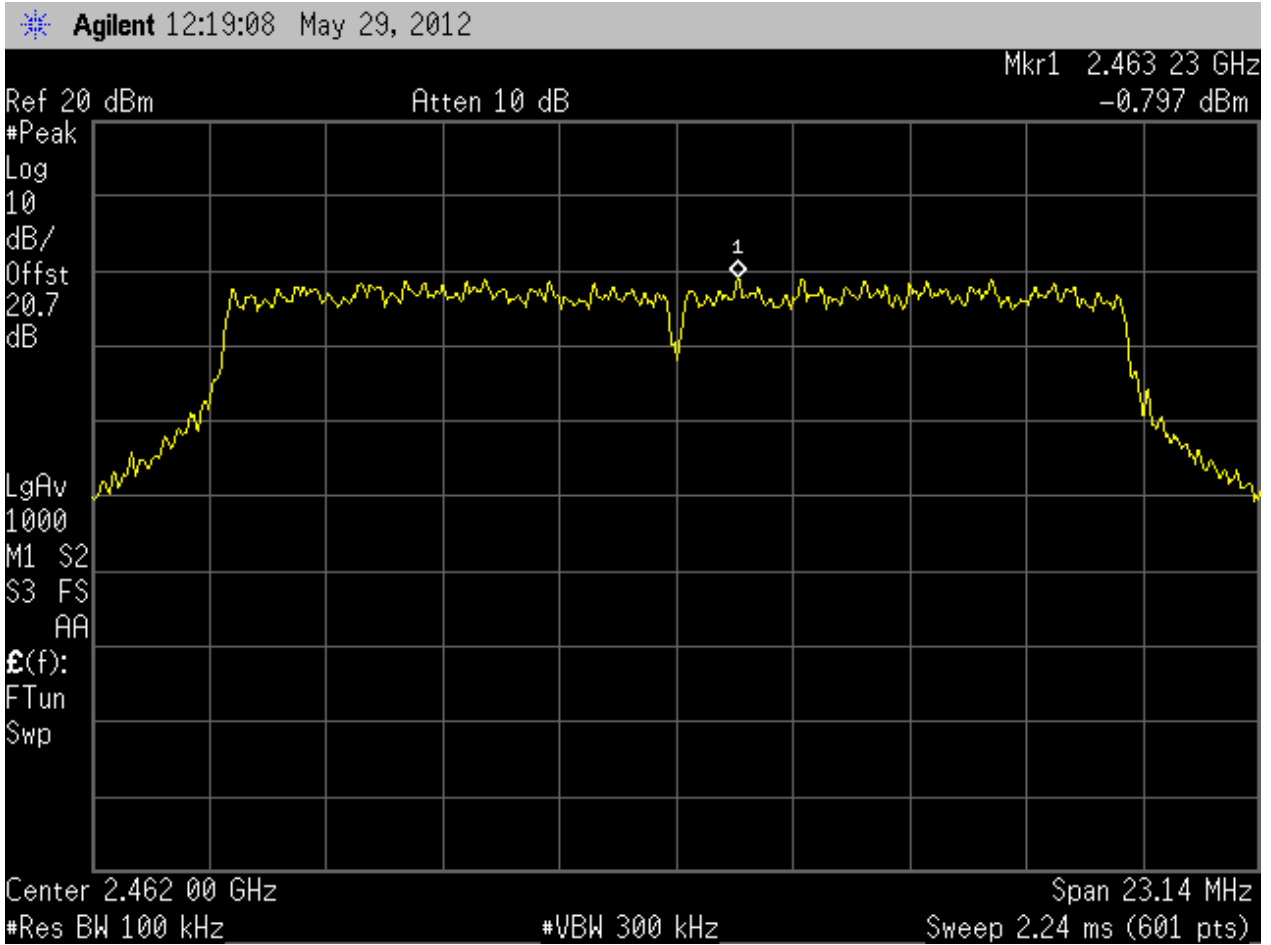


2.20.2 Ant 2

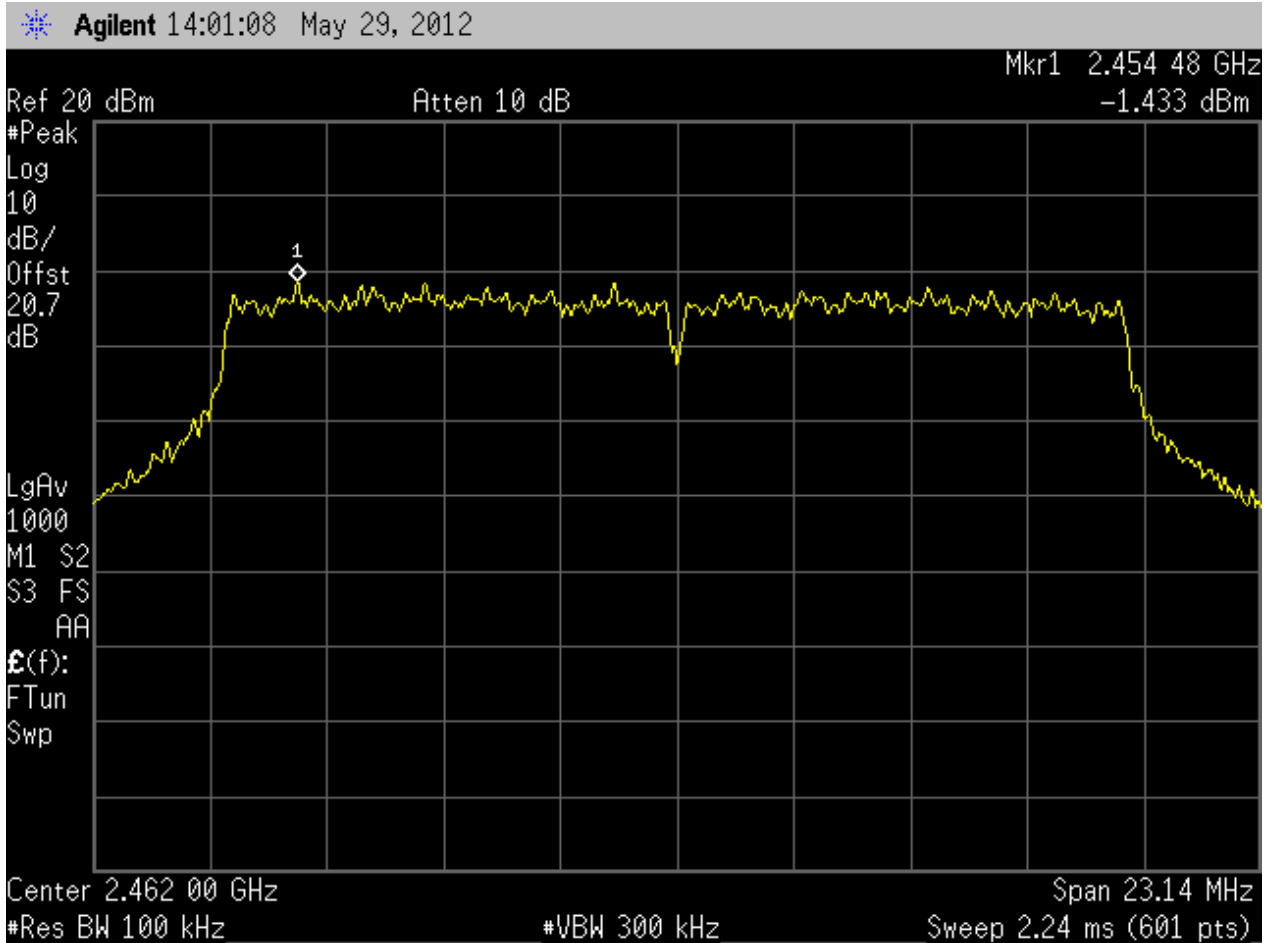


## 2.2111N20m/8\_T@1+2

### 2.21.1 Ant 1



### 2.21.2 Ant 2







# Appendix D: Unwanted Emissions into Non-Restricted Frequency Bands

## 1 Result Table

NOTE 1: In this Appendix, the Pref refers to the peak power level in any 100 kHz bandwidth within the fundamental emission which is used as the reference level, the Puw referrers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

NOTE 2: Considering that the higher ratio of 100 kHz RBW to the span for the frequency ranges below 30 MHz make the results determination be complicated, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where  $RBWCF [dB] = 10 \cdot \lg(100 [kHz]/\text{narrower RBW [kHz]})$ . In 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.

NOTE 3: 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.

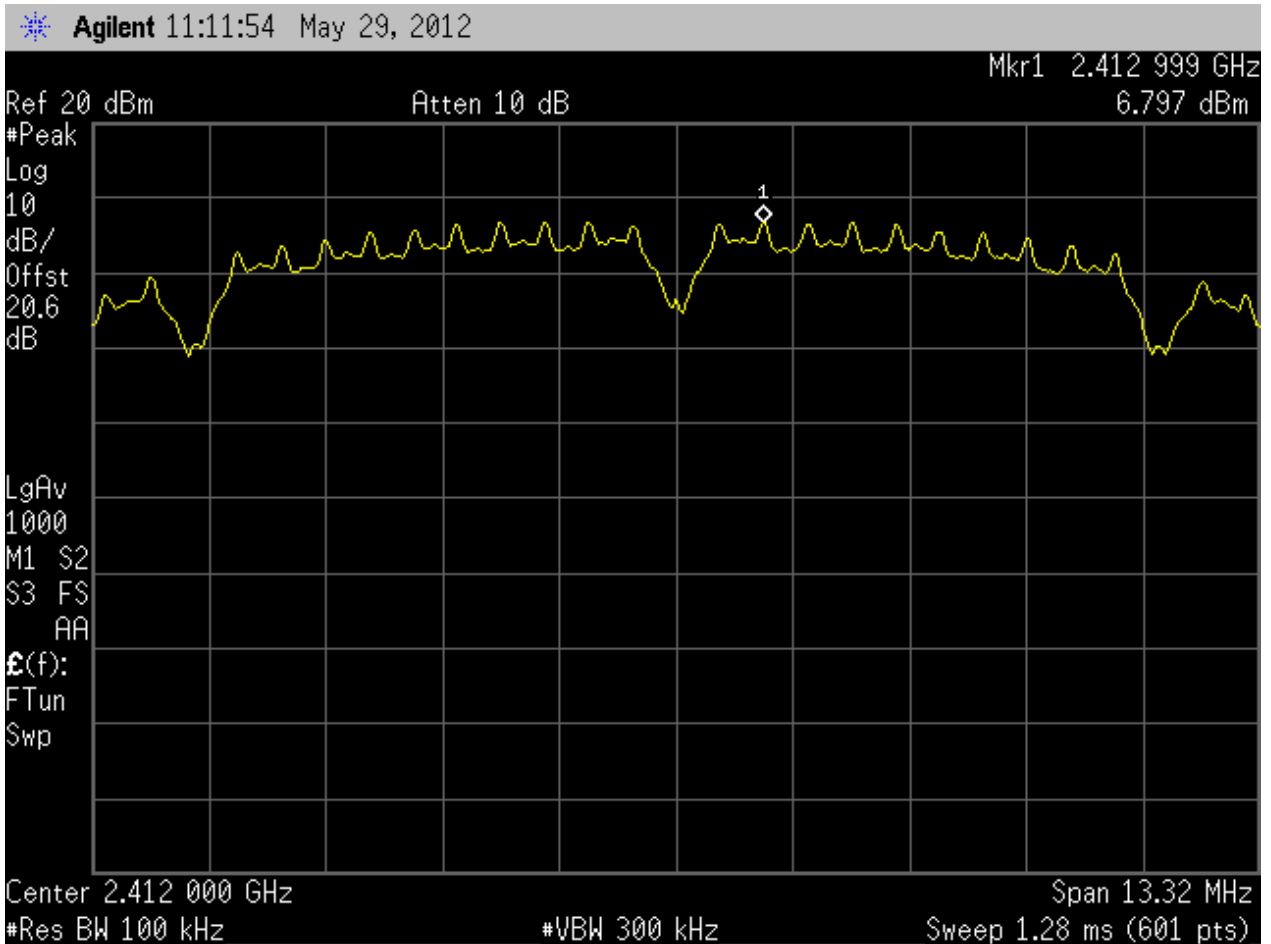
NOTE 4: In this Appendix, the "< Limit" in results table denotes "Puw less than Pref – 20 dB".

EUT Conf.	Pref@Ant 1 [dBm/100 kHz]	Puw@Ant 1 [dBm/100 kHz]	Pref@Ant 2 [dBm/100 kHz]	Puw@Ant 2 [dBm/100 kHz]	Verdict
11B/1_B@1	6.8	< Limit	---	---	Pass
11B/1_B@2	---	---	5.11	< Limit	Pass
11B/1_M@1	5.38	< Limit	---	---	Pass
11B/1_M@2	---	---	4.86	< Limit	Pass
11B/1_T@1	4.99	< Limit	---	---	Pass
11B/1_T@2	---	---	4.82	< Limit	Pass
11G/6_B@1	0.75	< Limit	---	---	Pass
11G/6_B@2	---	---	0.43	< Limit	Pass
11G/6_M@1	0.83	< Limit	---	---	Pass
11G/6_M@2	---	---	0.5	< Limit	Pass
11G/6_T@1	0.47	< Limit	---	---	Pass
11G/6_T@2	---	---	0.26	< Limit	Pass
11N20/0_B@1	1.04	< Limit	---	---	Pass
11N20/0_B@2	---	---	-0.32	< Limit	Pass
11N20/0_M@1	0.46	< Limit	---	---	Pass
11N20/0_M@2	---	---	0.1	< Limit	Pass
11N20/0_T@1	0.3	< Limit	---	---	Pass
11N20/0_T@2	---	---	-0.03	< Limit	Pass
11N20m/8_B@1+2	-1.98	< Limit	-1.05	< Limit	Pass
11N20m/8_M@1+2	-1.87	< Limit	-1.12	< Limit	Pass
11N20m/8_T@1+2	-0.41	< Limit	-1.91	< Limit	Pass

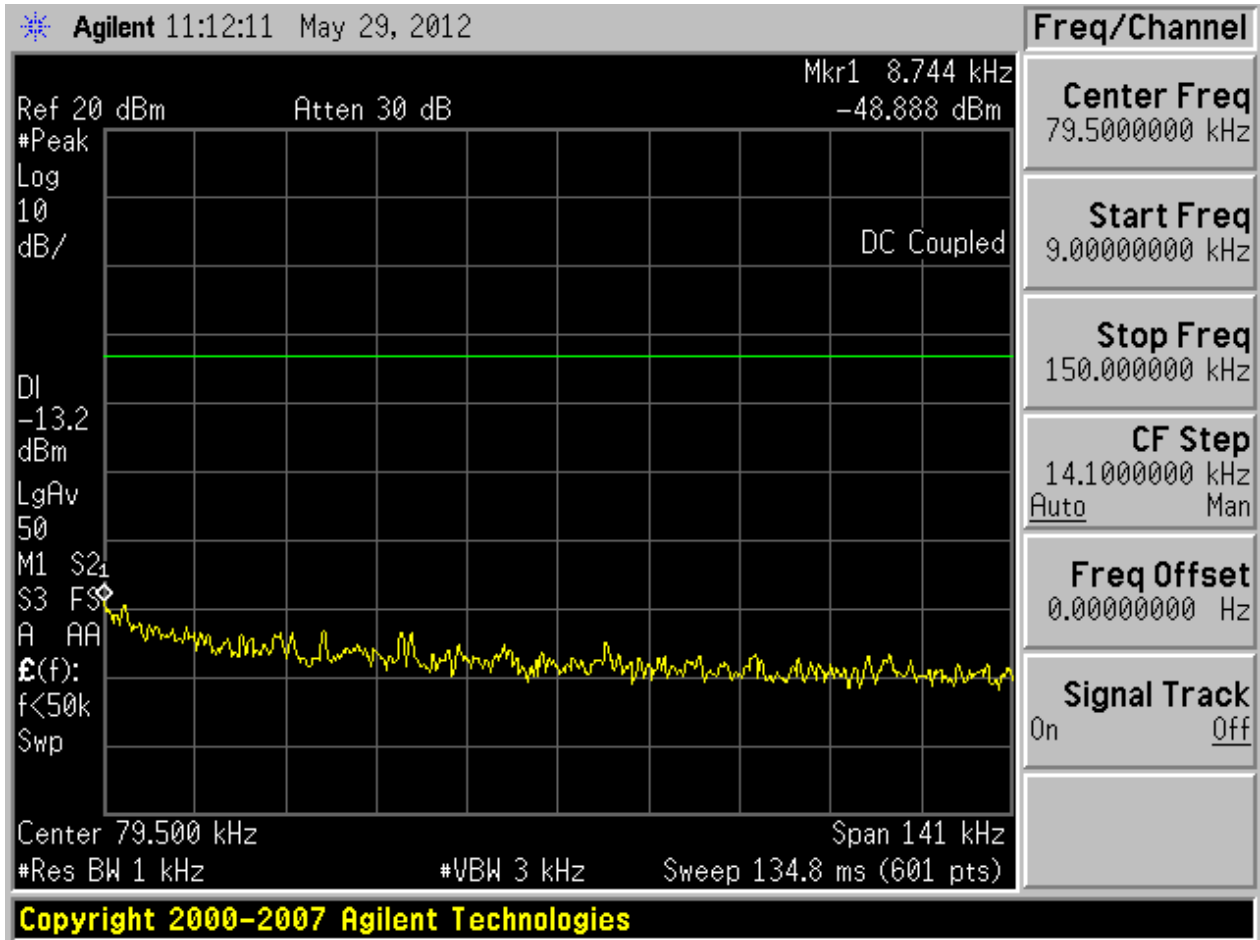
## 2 Test Plot

### 2.1 11B/1\_B@1

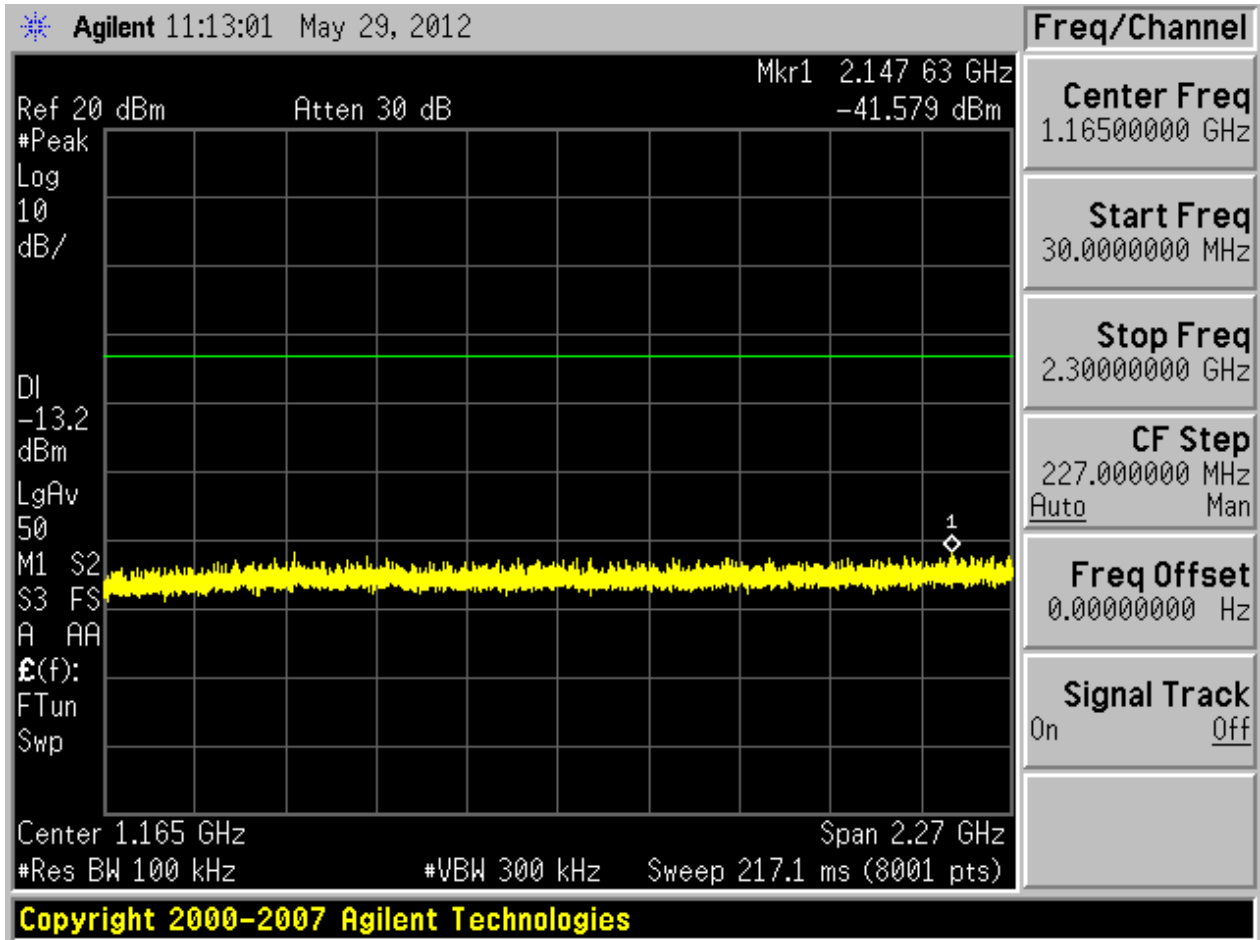
#### 2.1.1 Pref

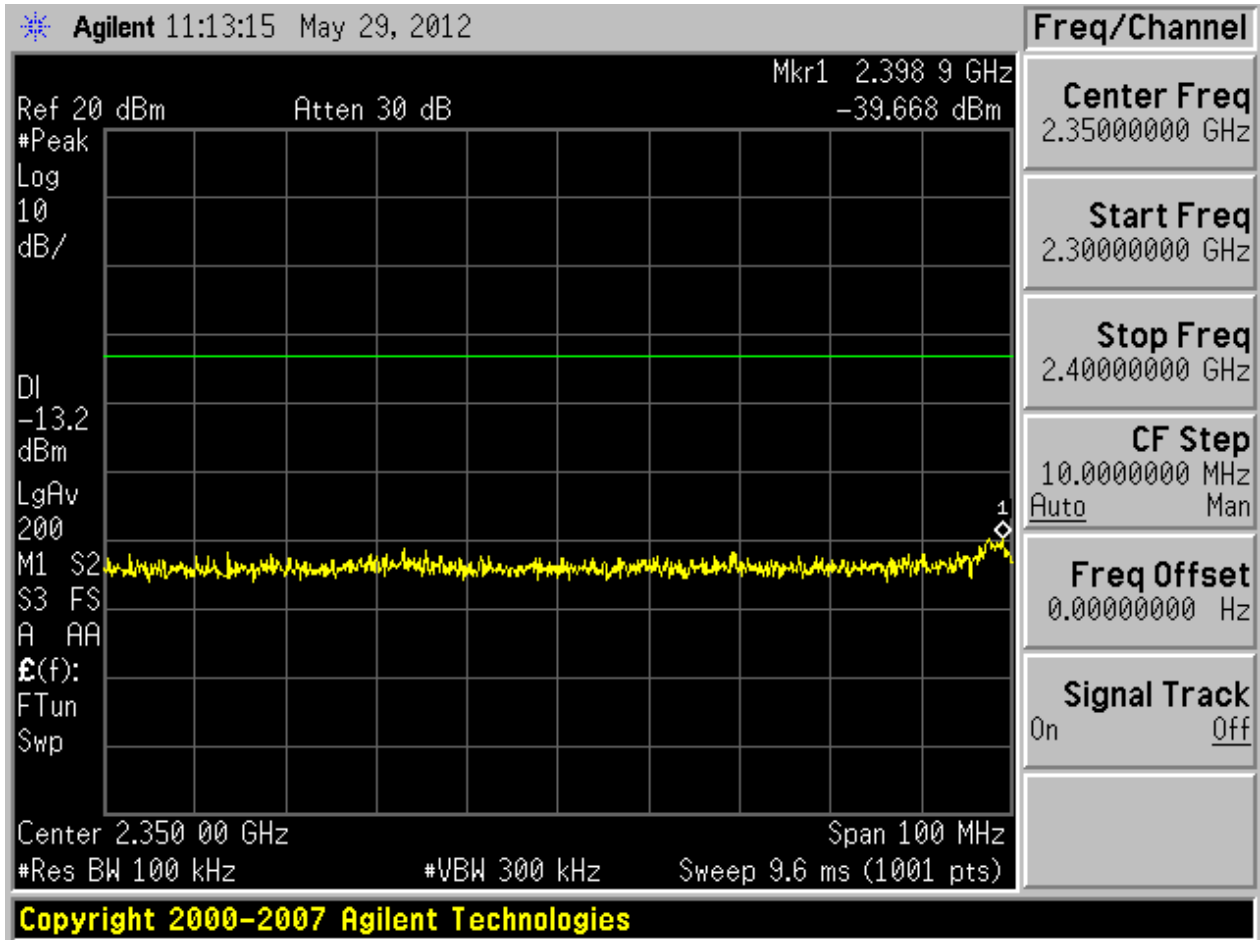


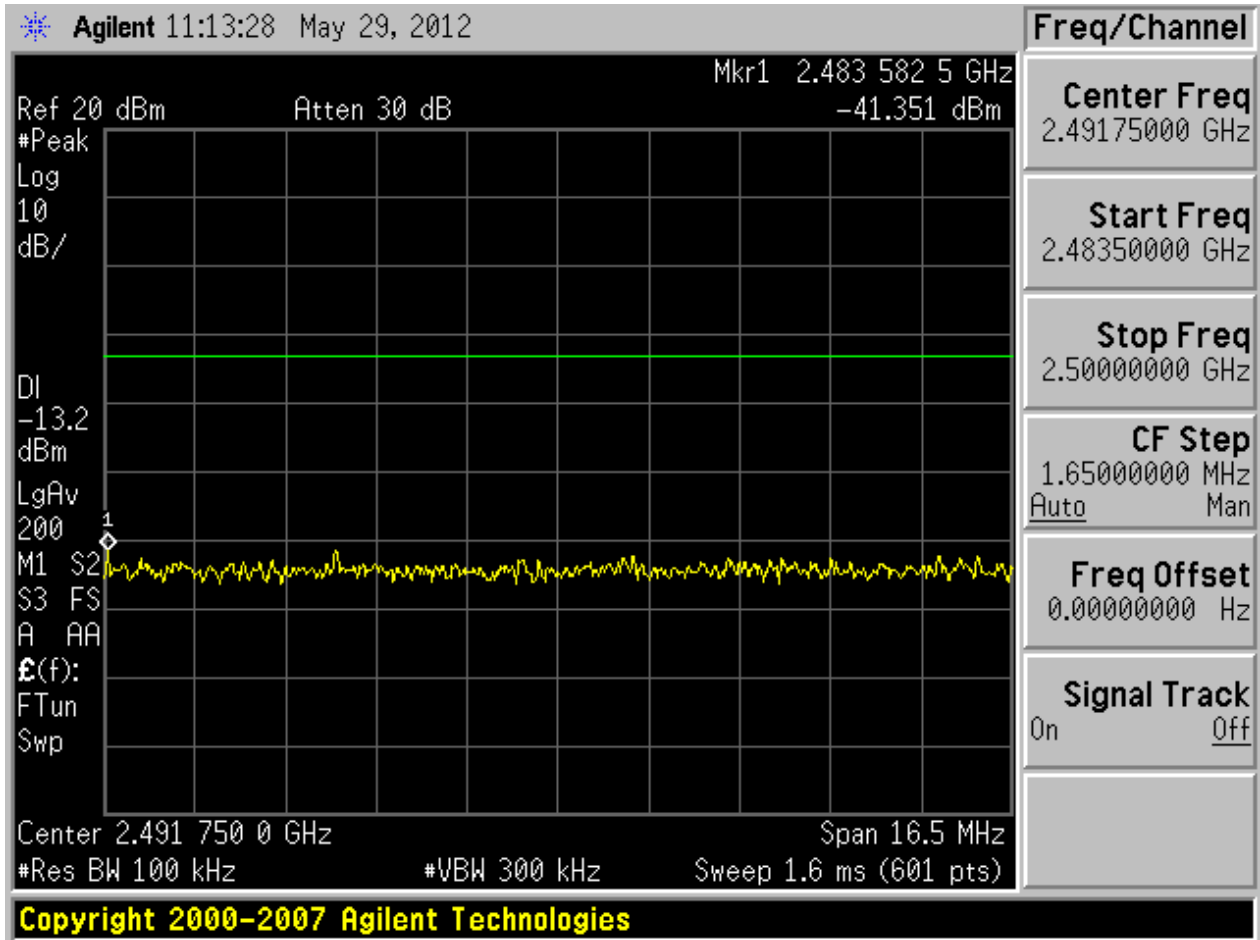
#### 2.1.2 Puw



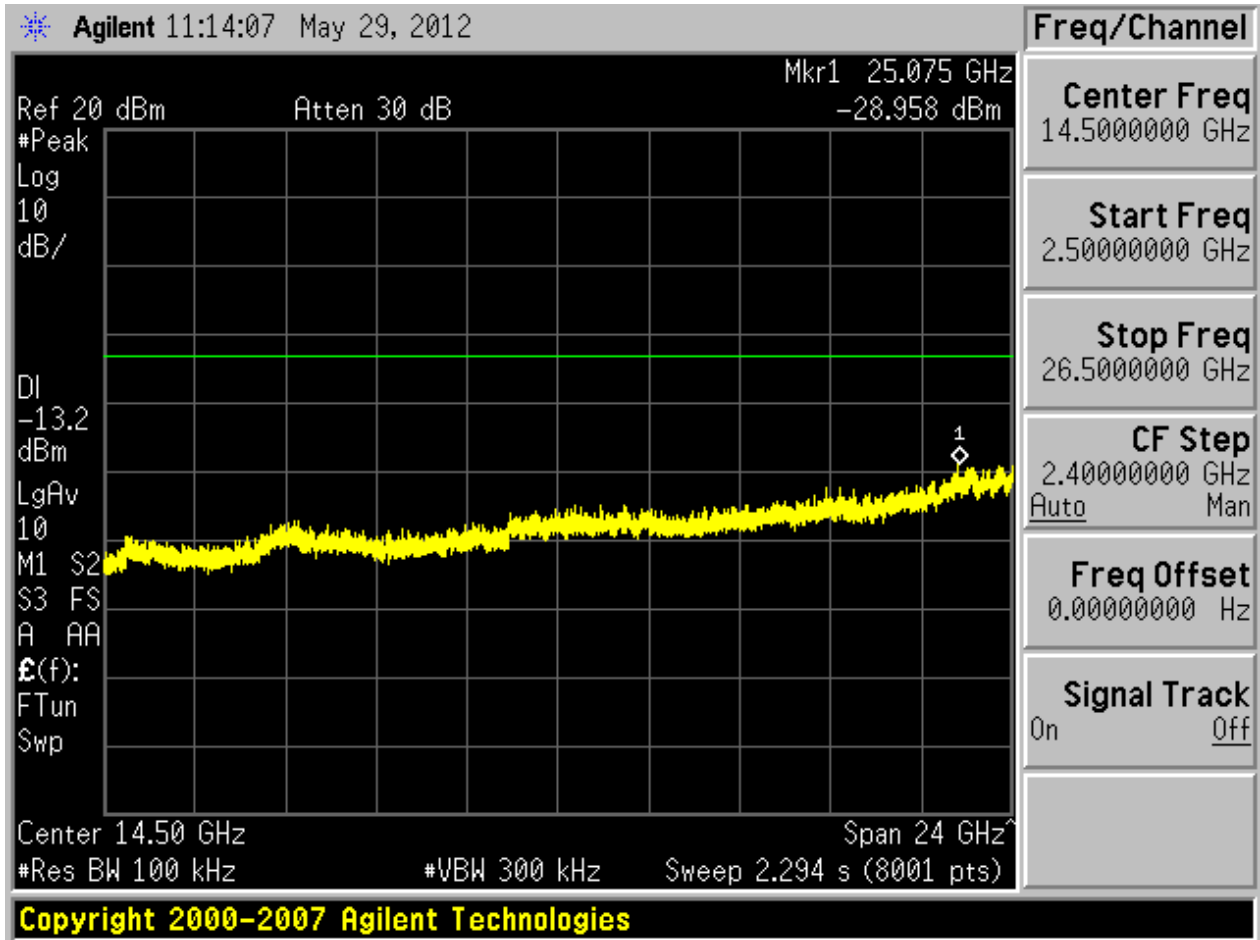






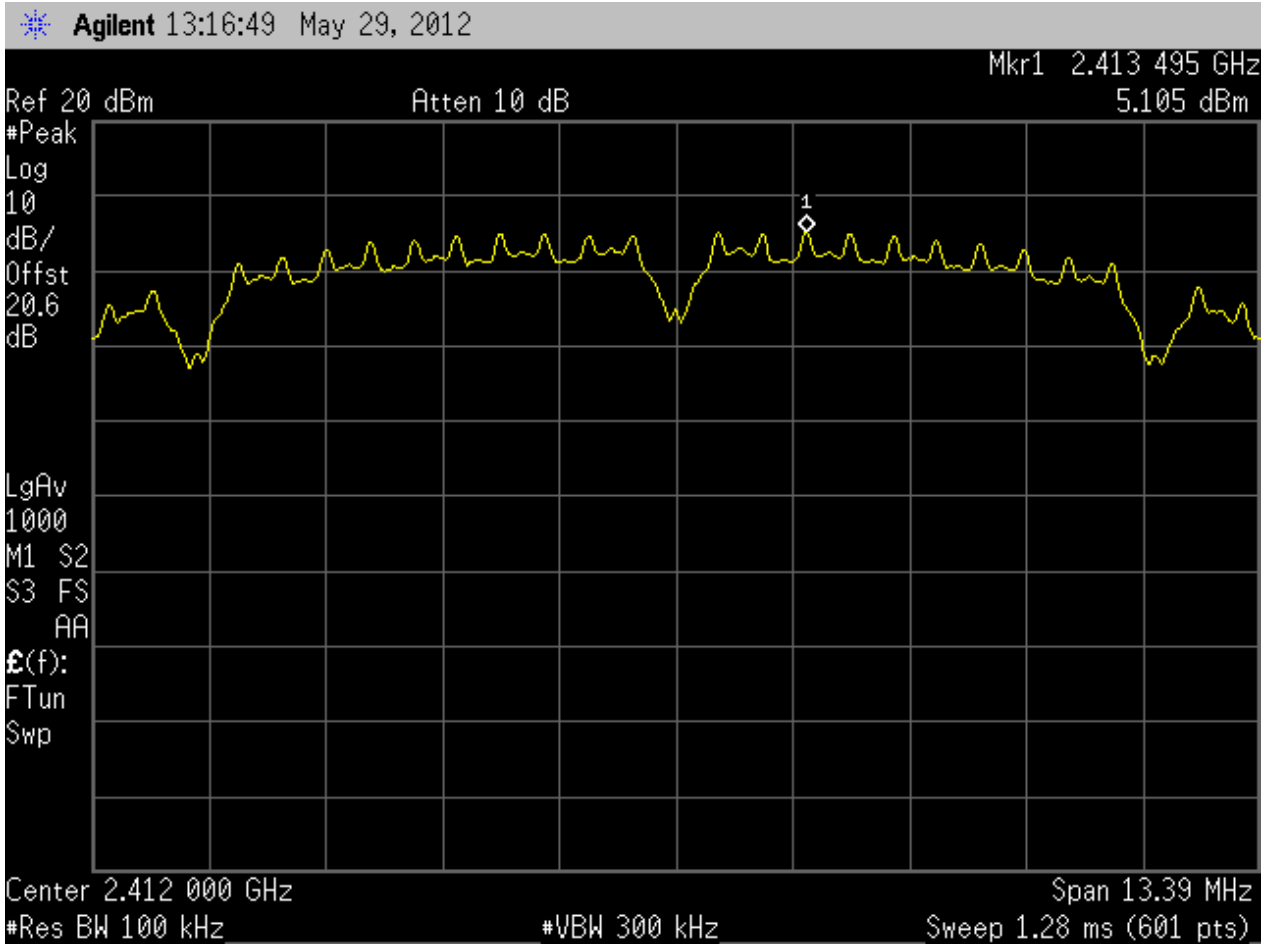




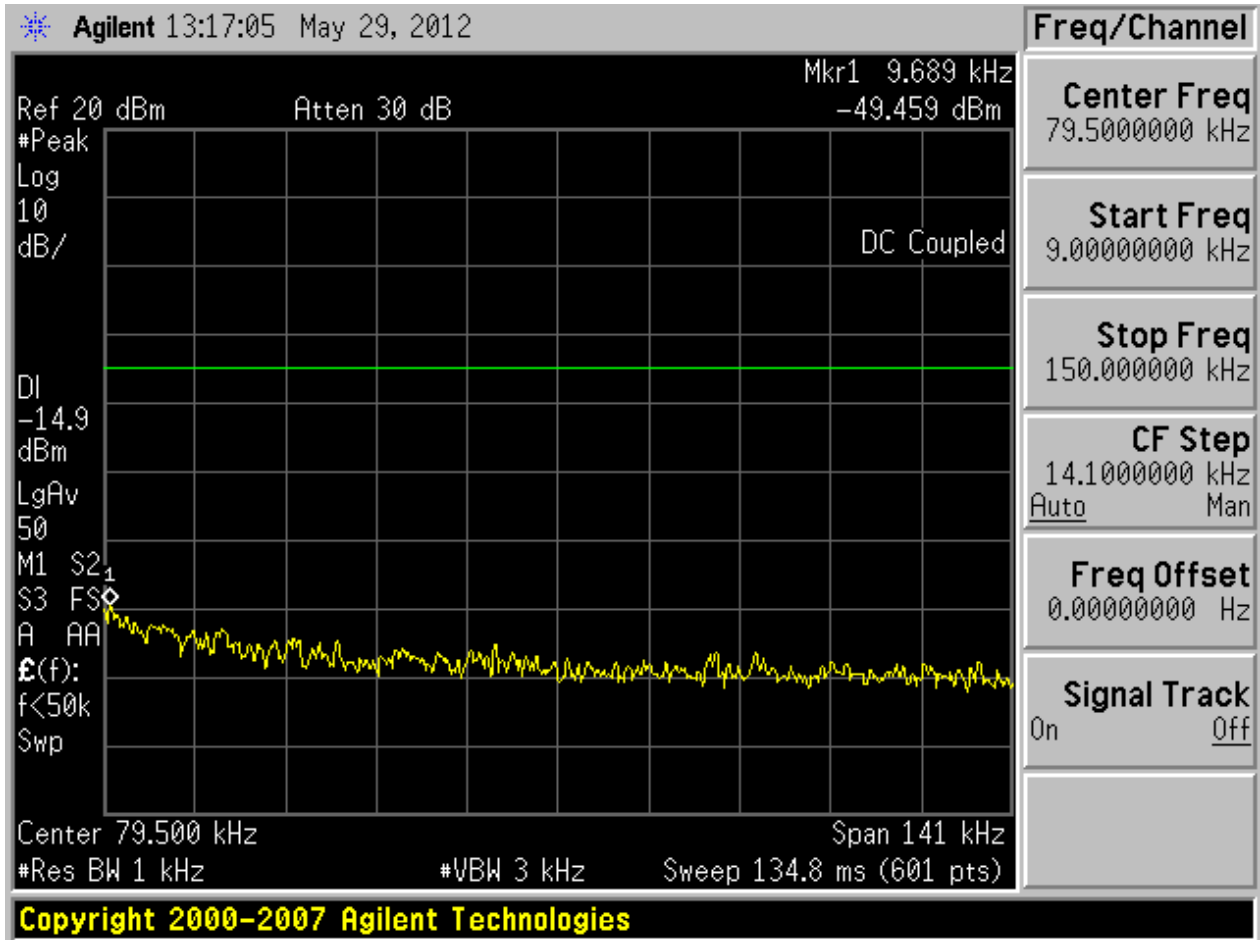


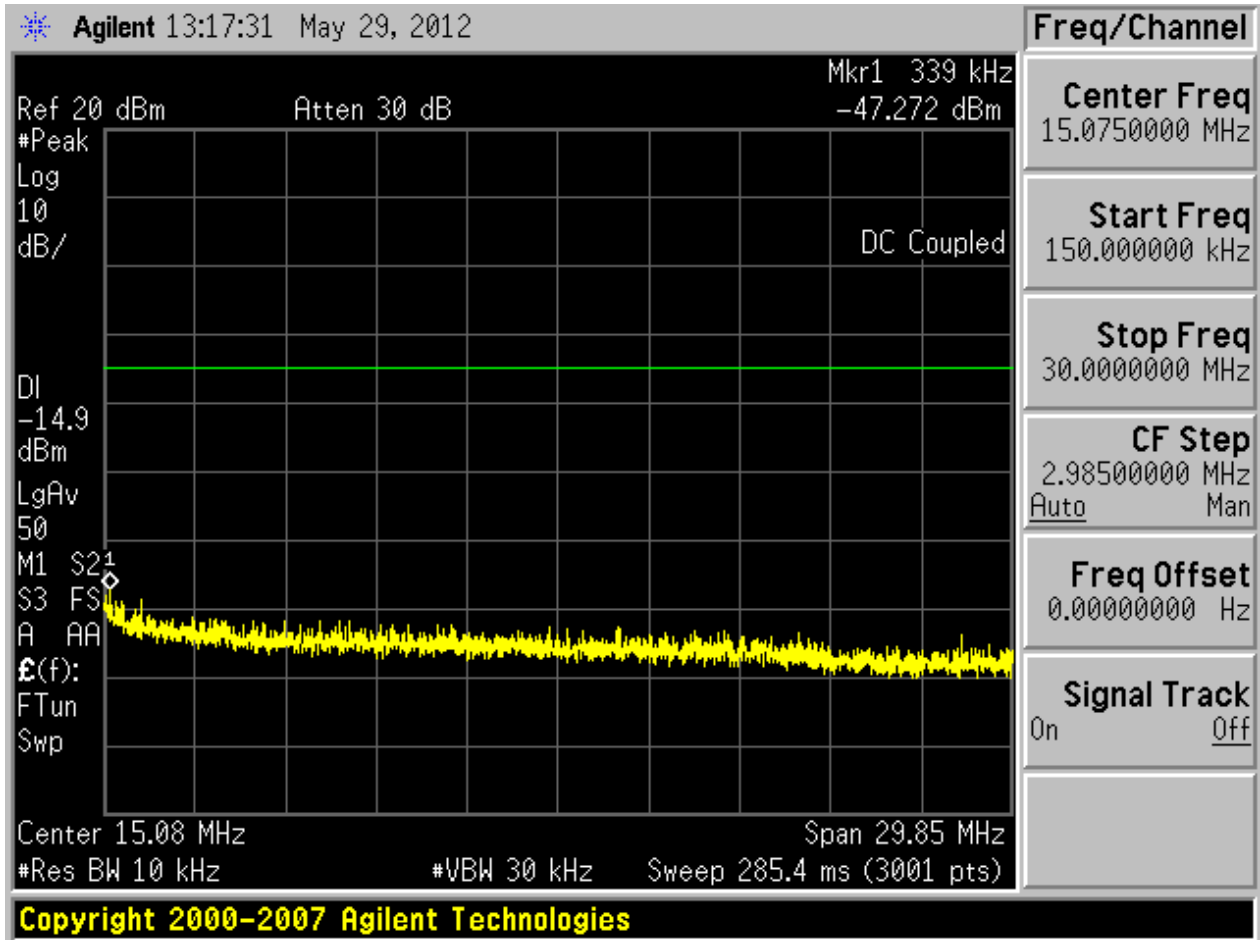
## 2.2 11B/1\_B@2

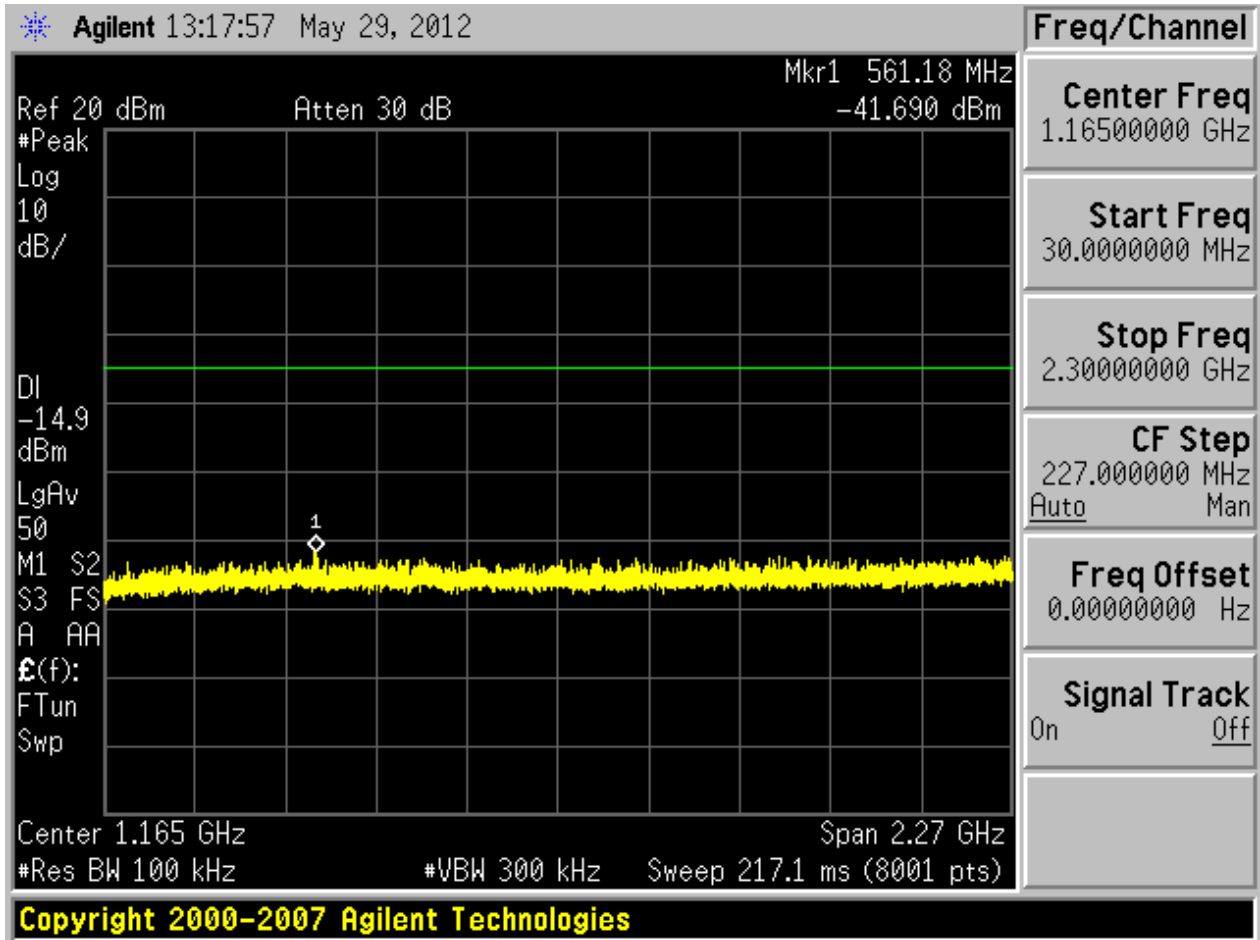
### 2.2.1 Pref

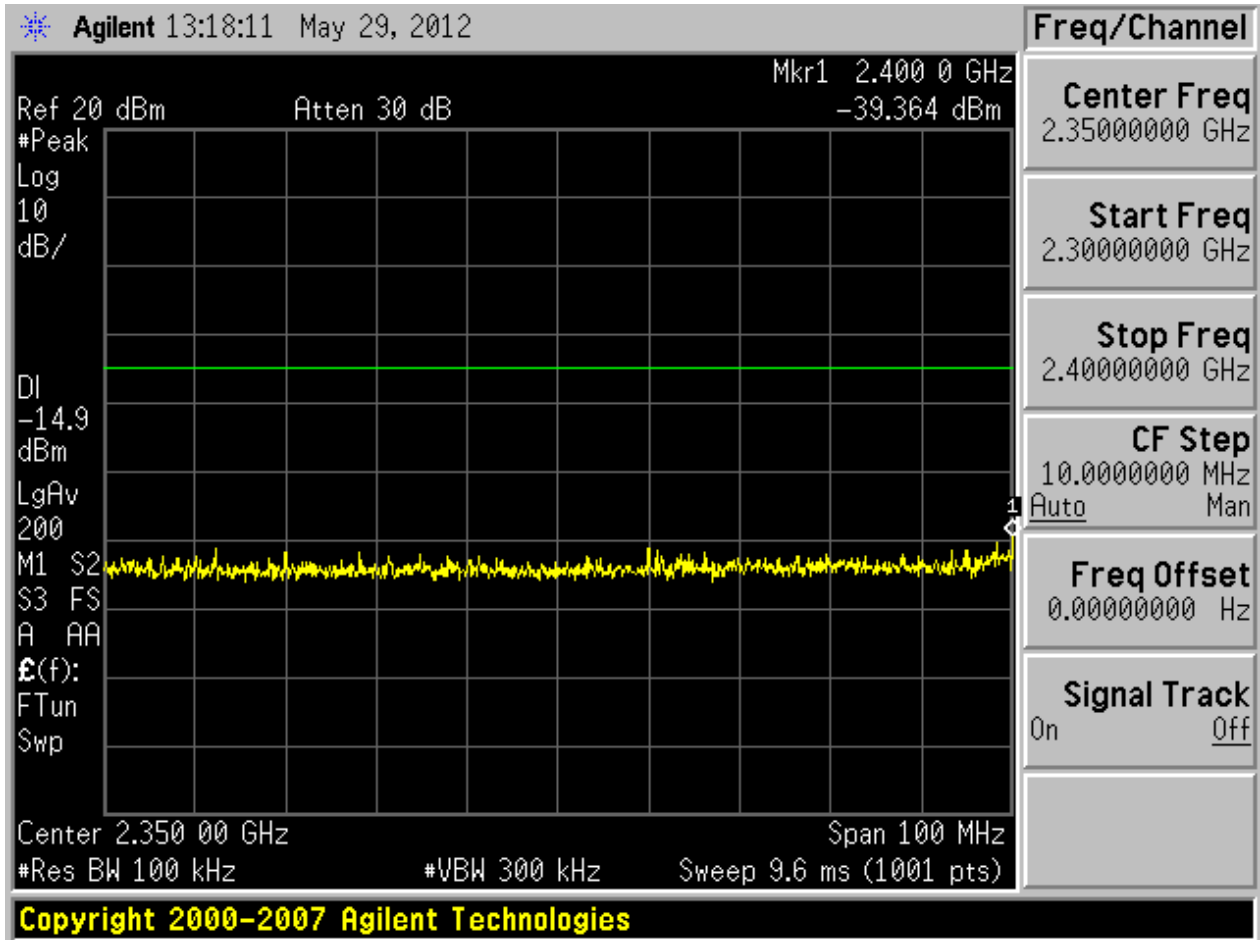


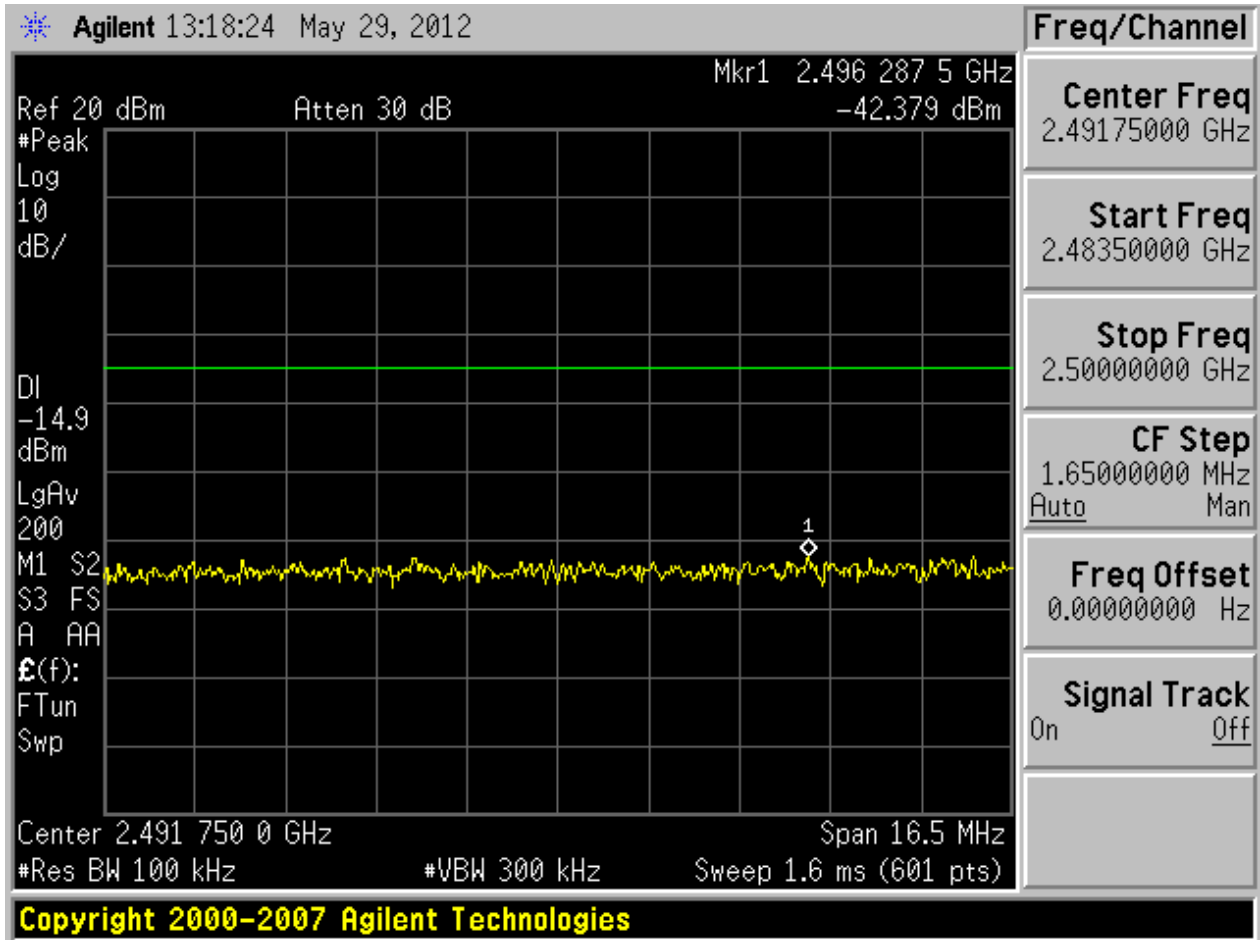
### 2.2.2 Puw

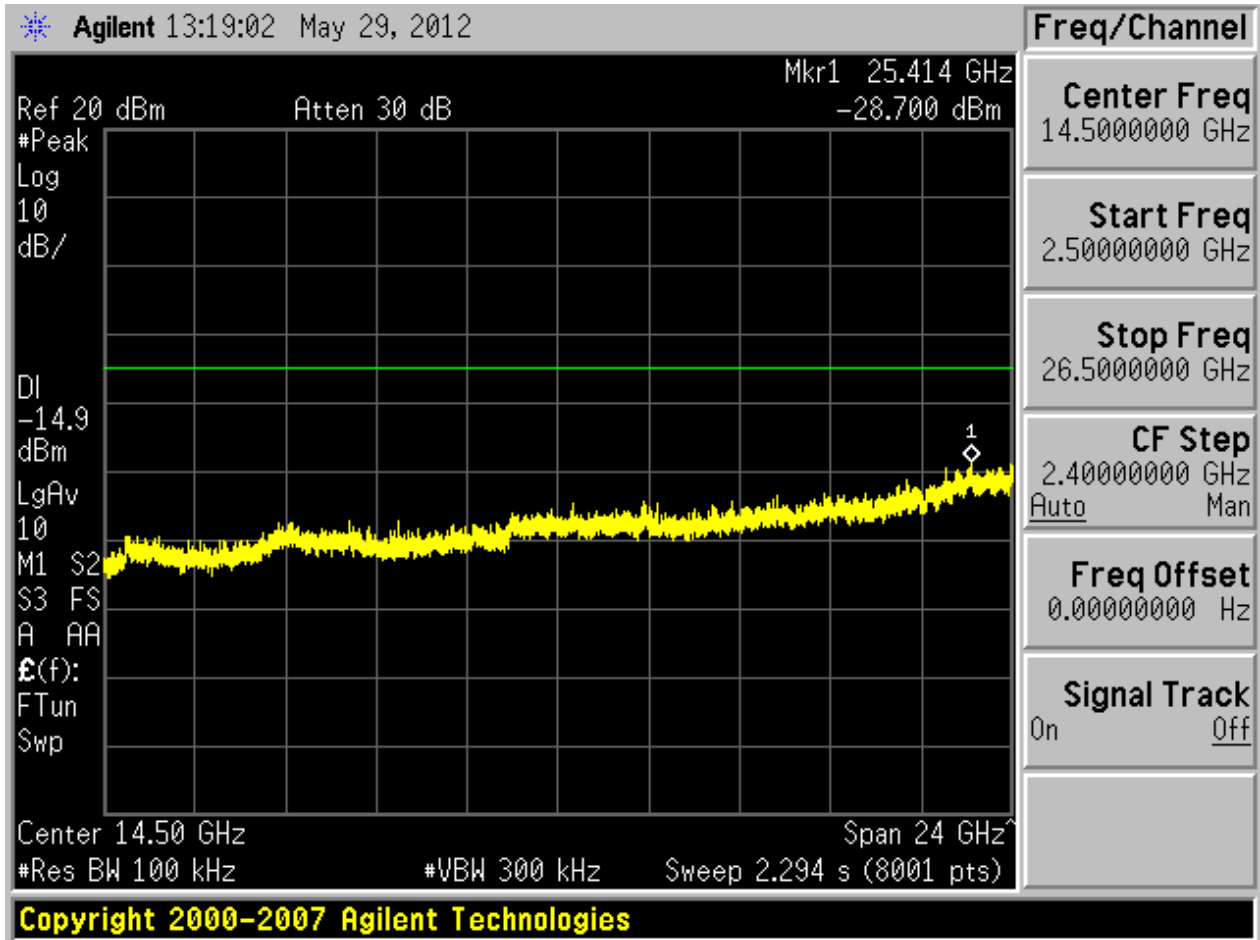








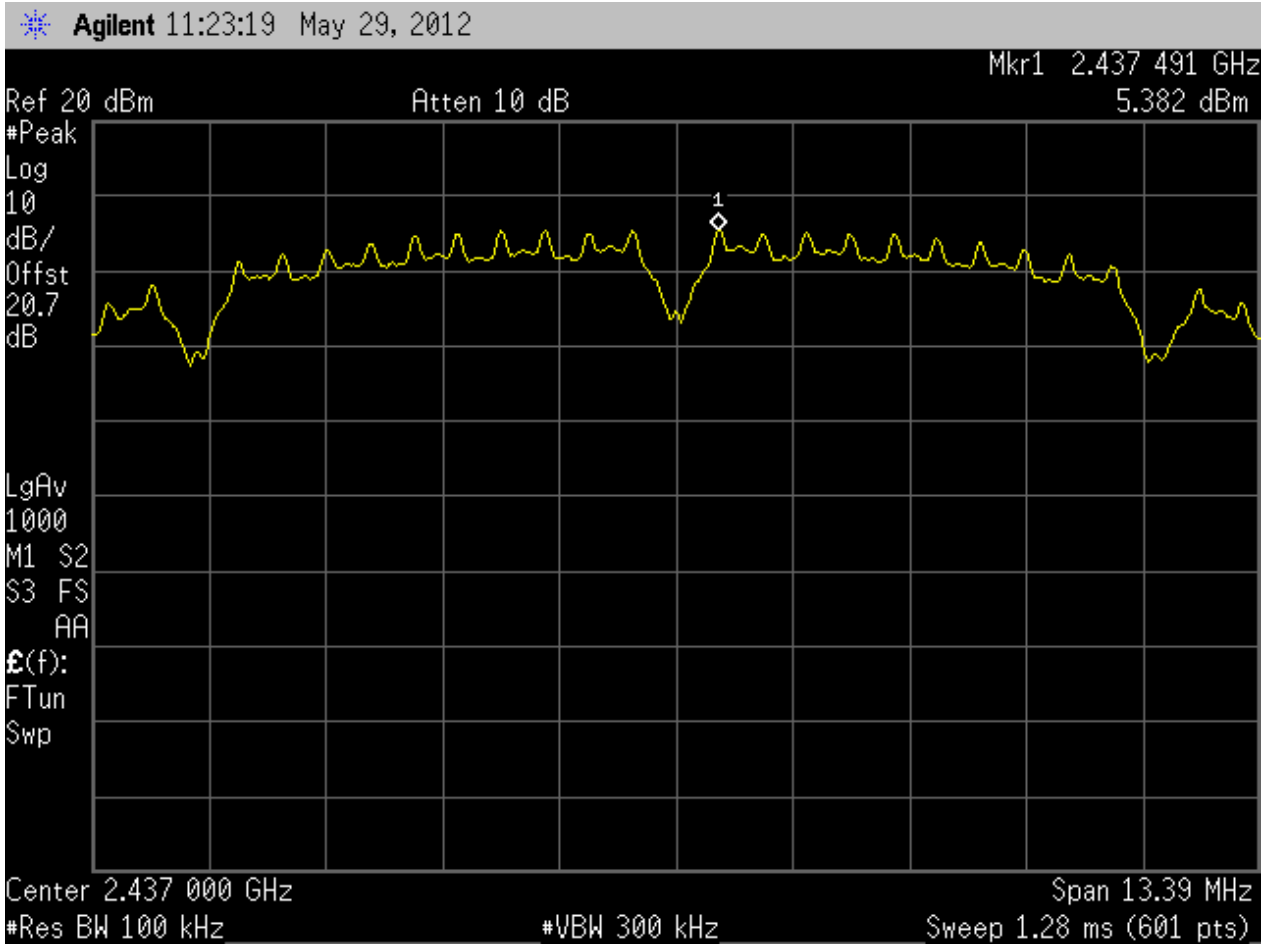




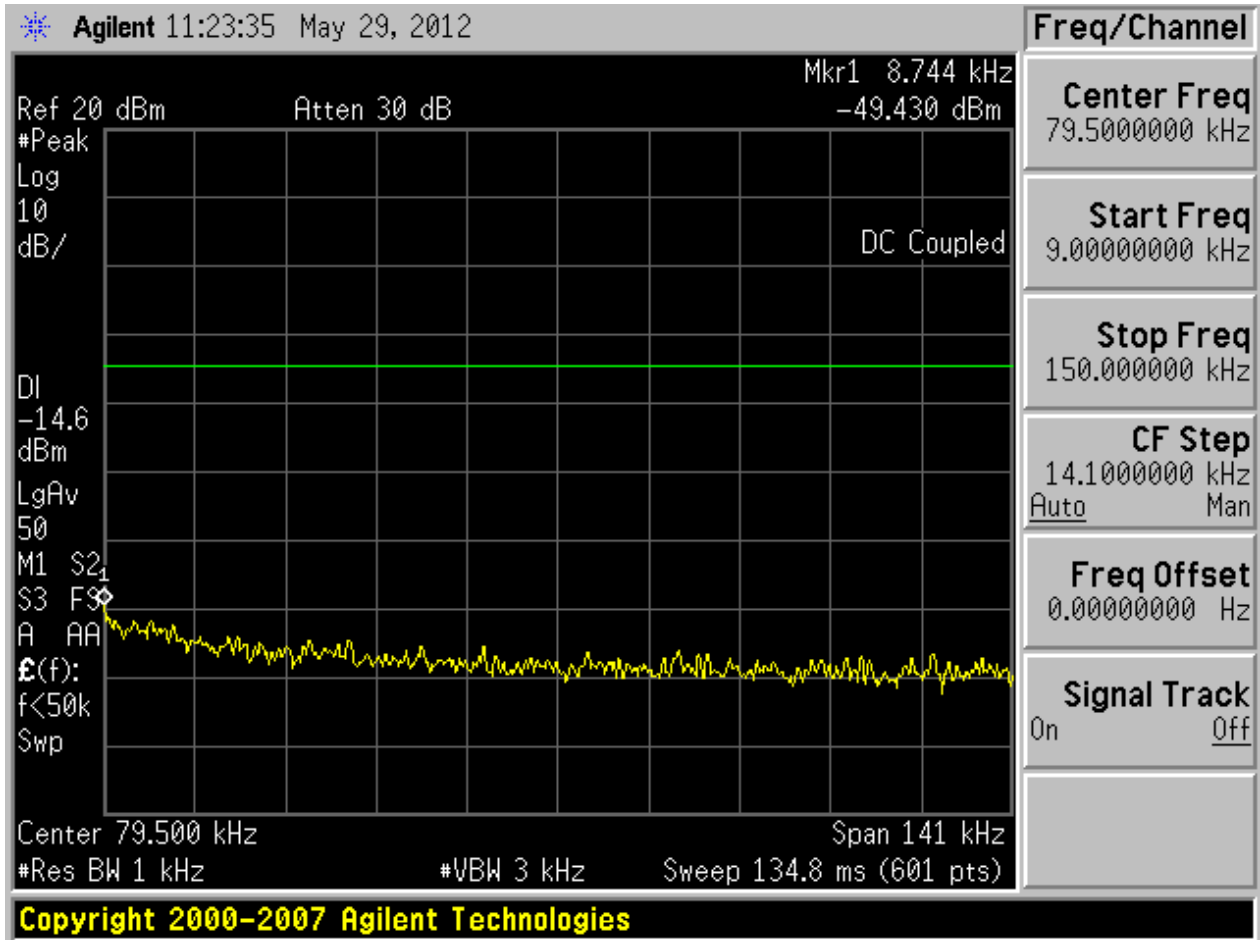
### 2.3 11B/1\_M@1

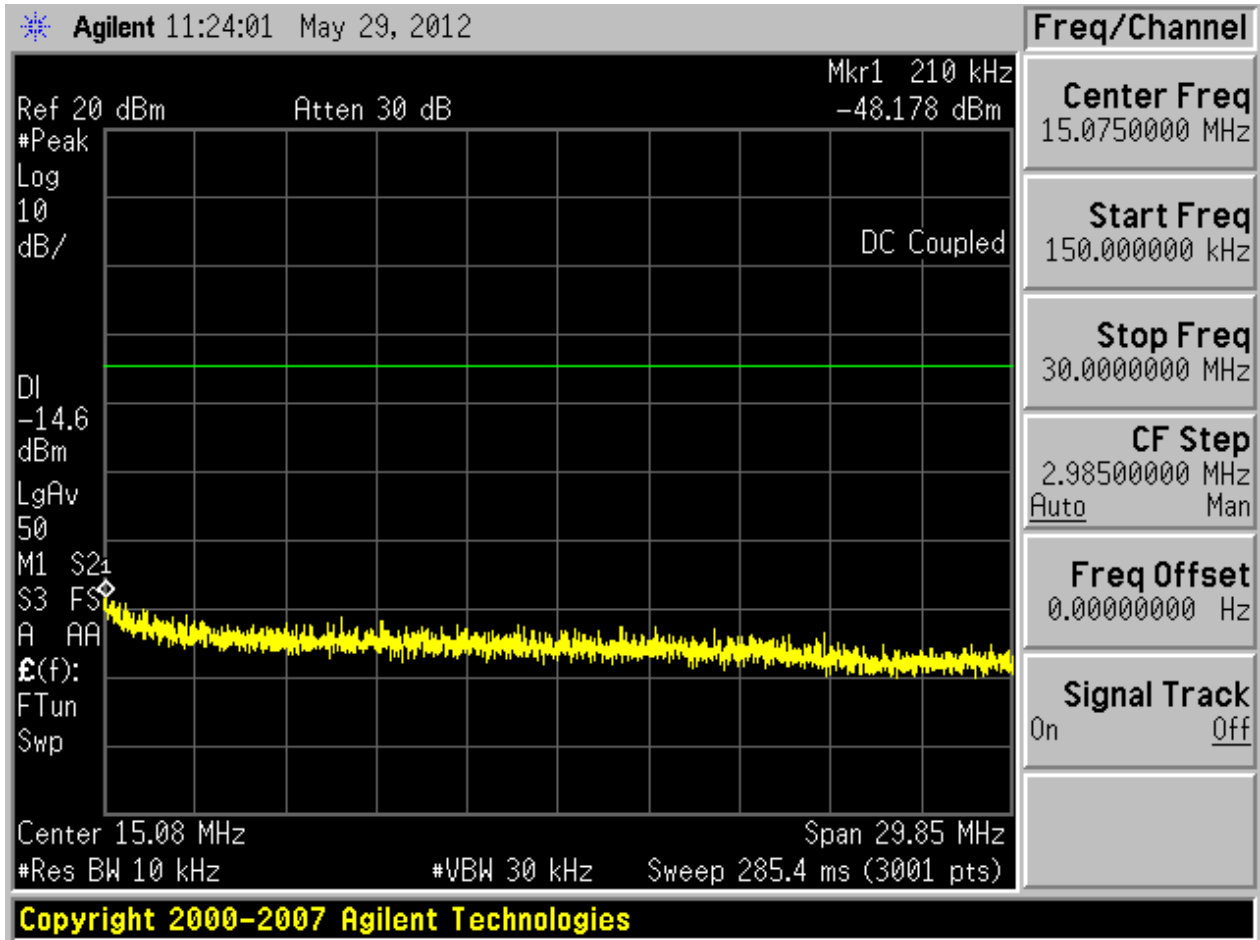
#### 2.3.1 Pref

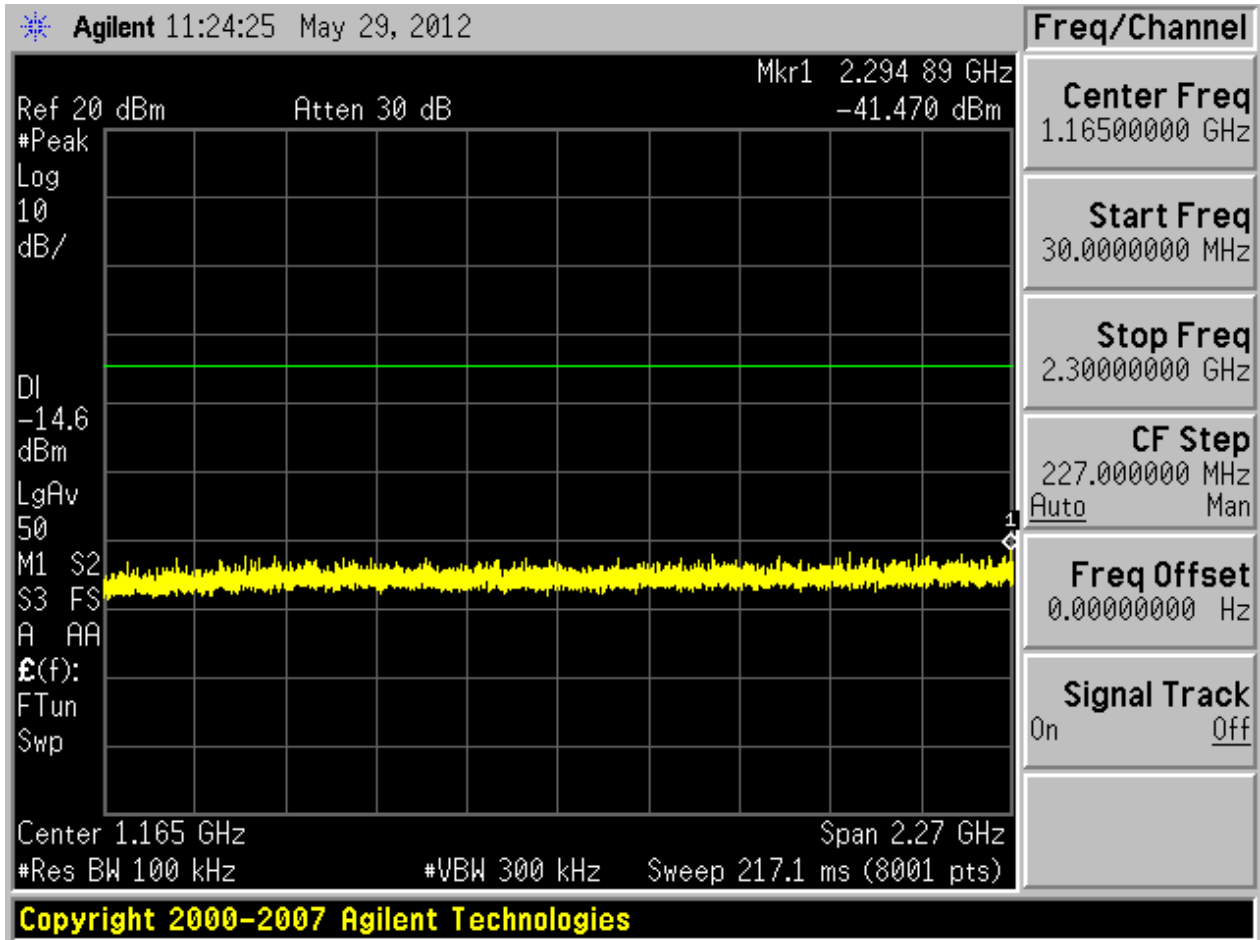


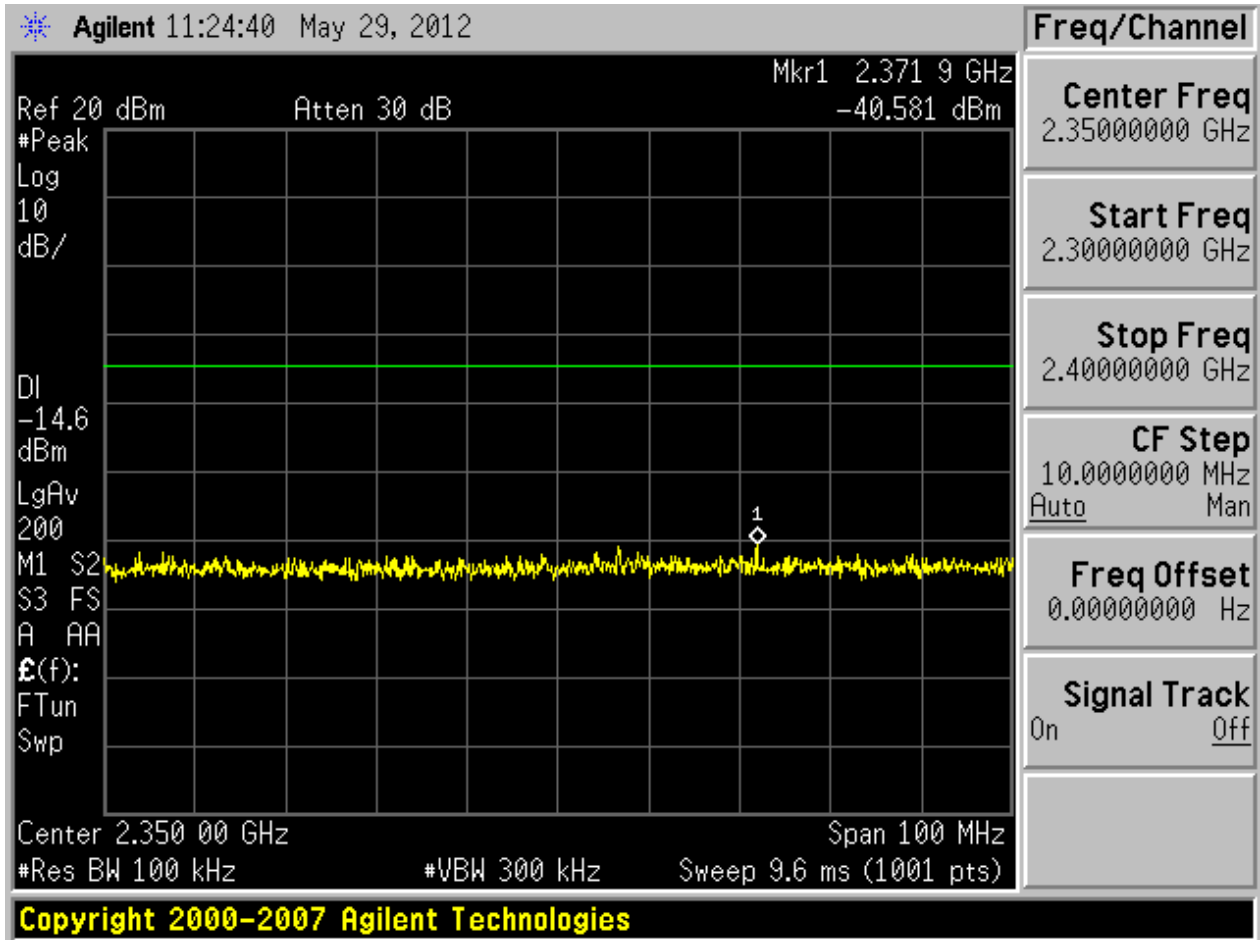


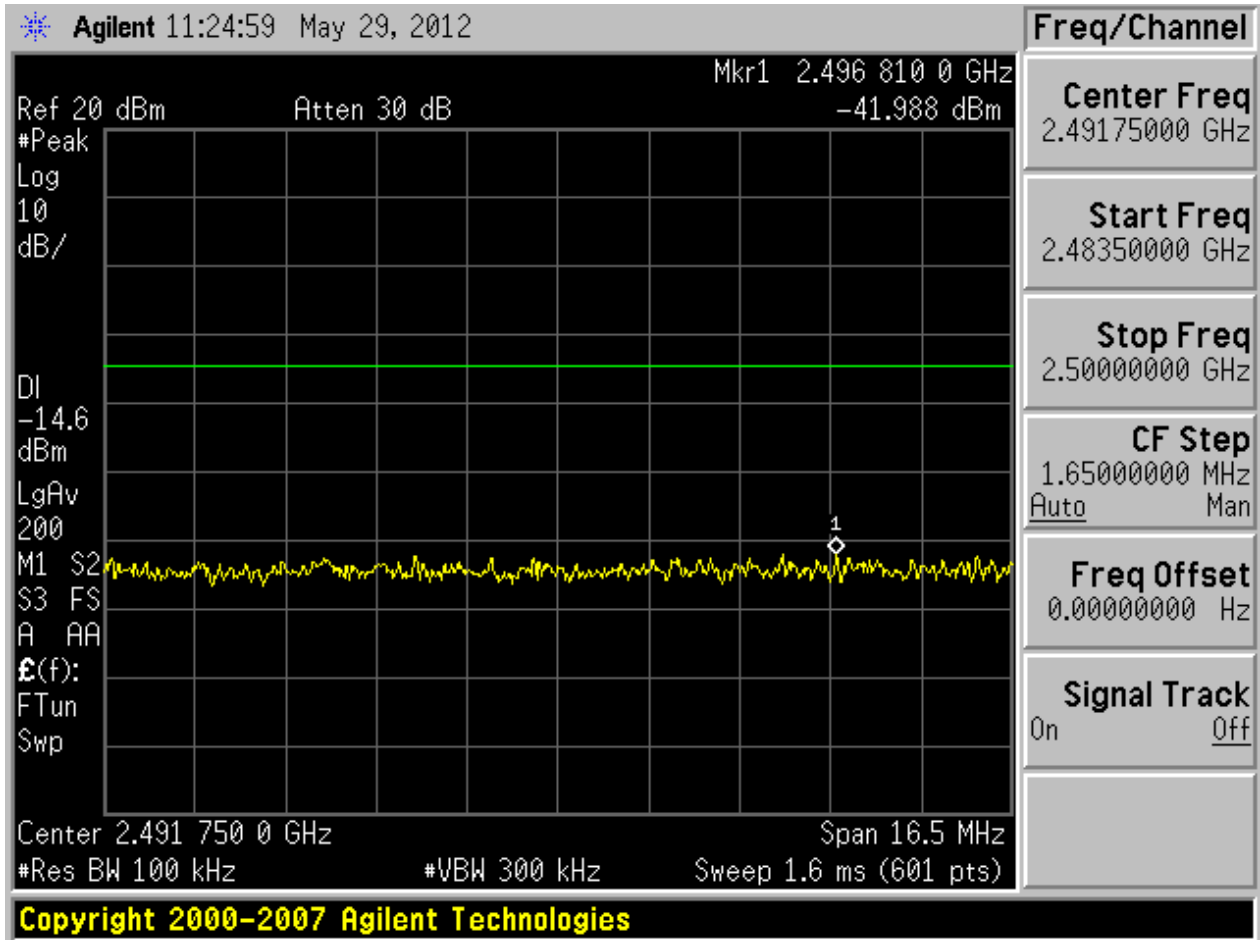
### 2.3.2 Puw

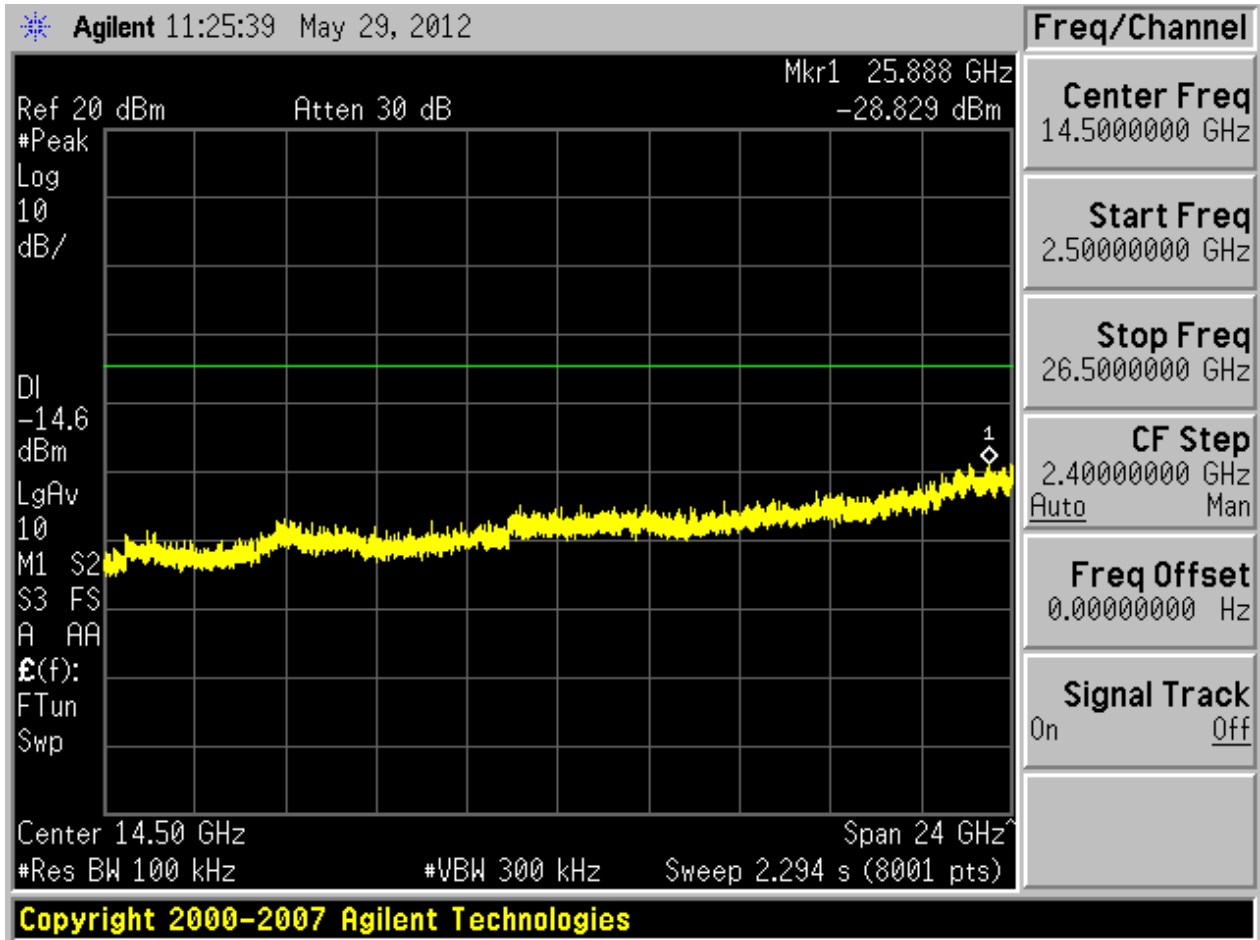






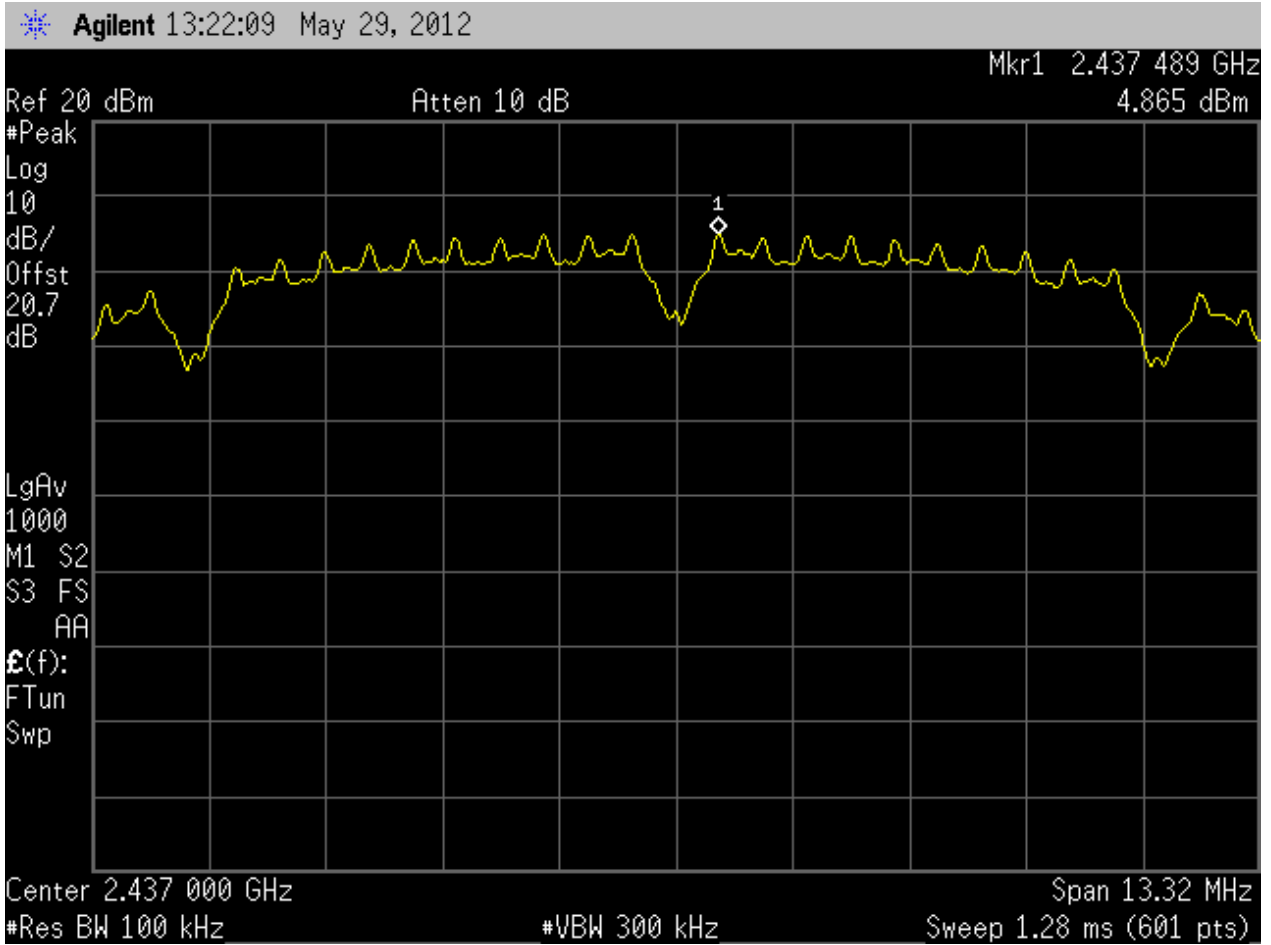






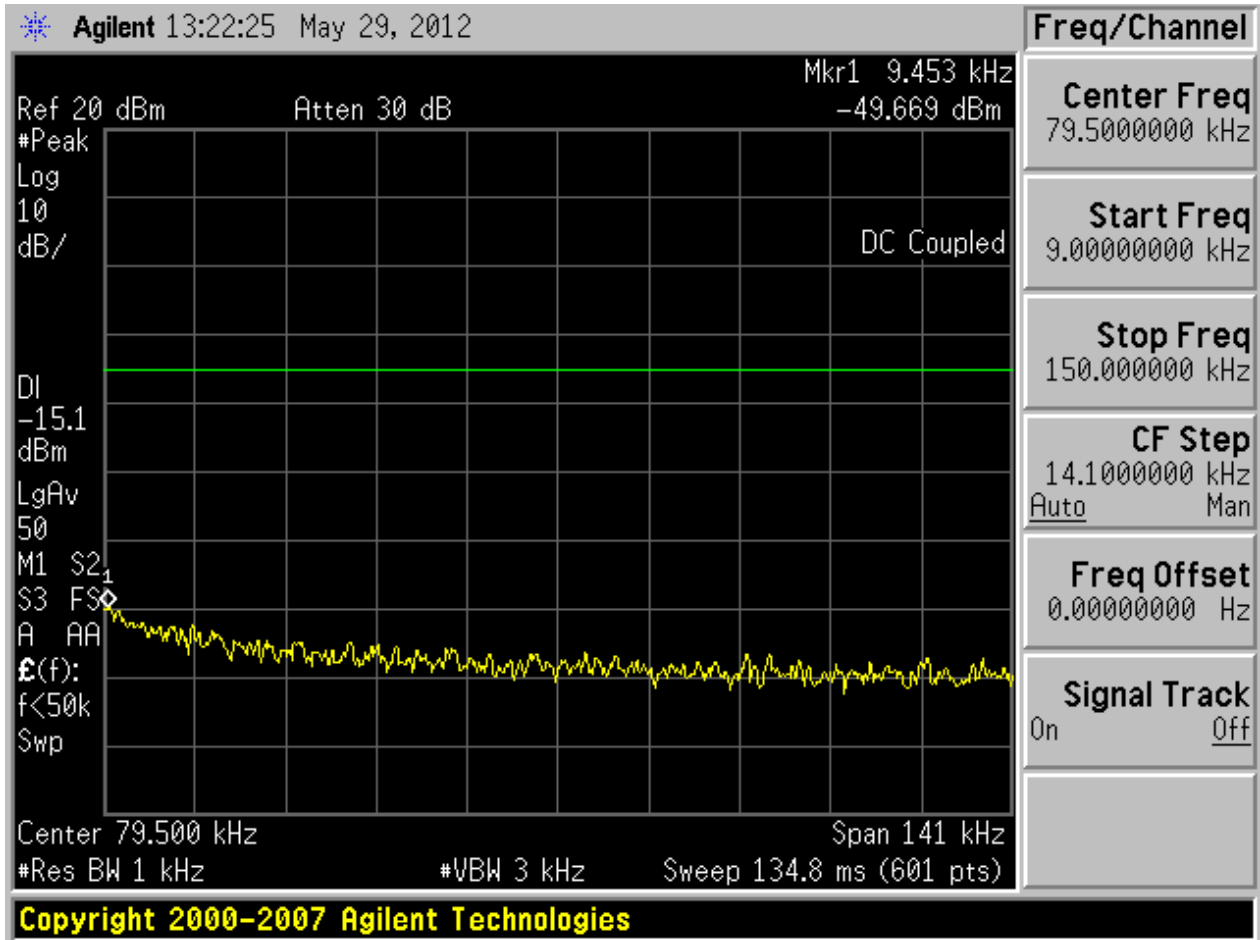
## 2.4 11B/1\_M@2

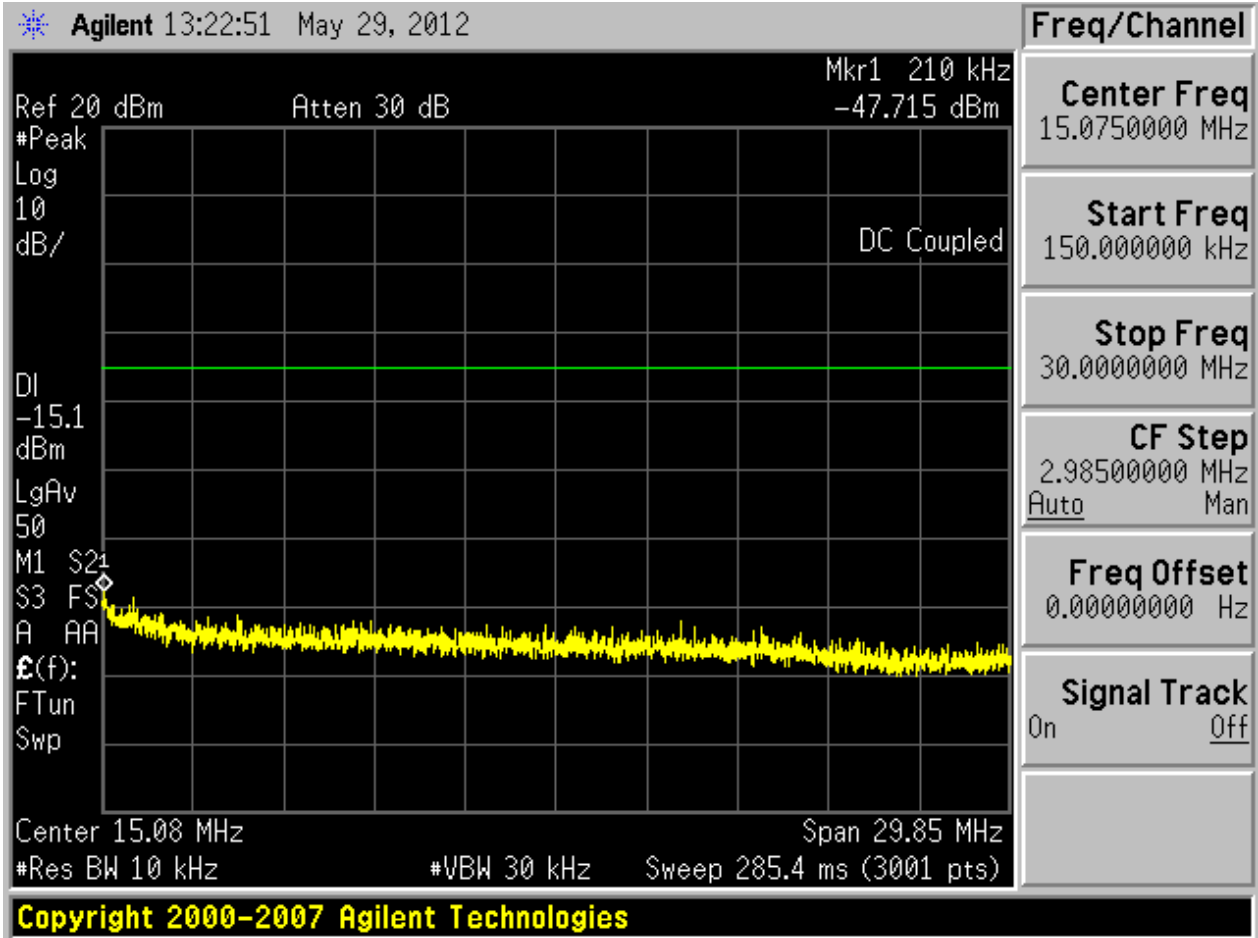
### 2.4.1 Pref

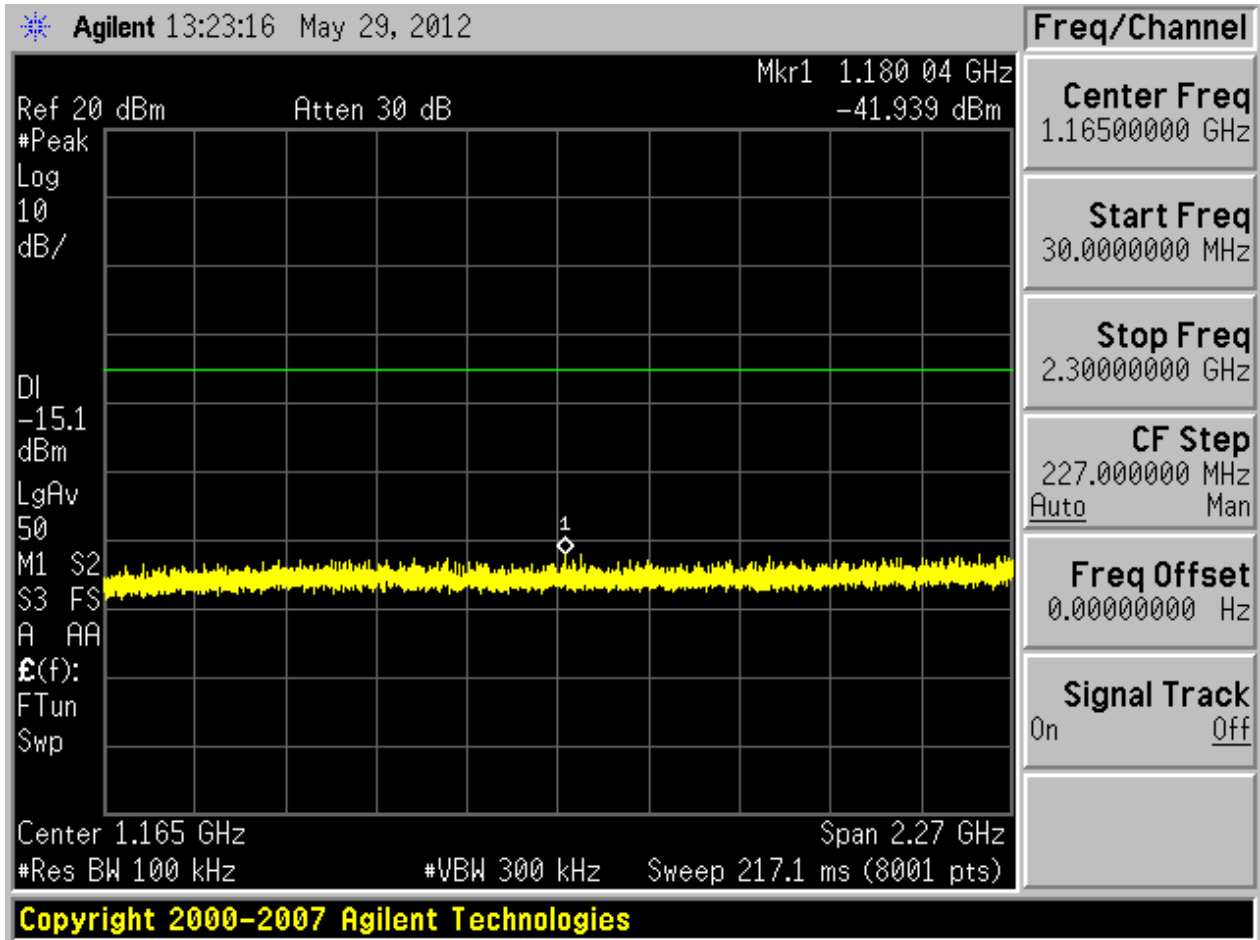


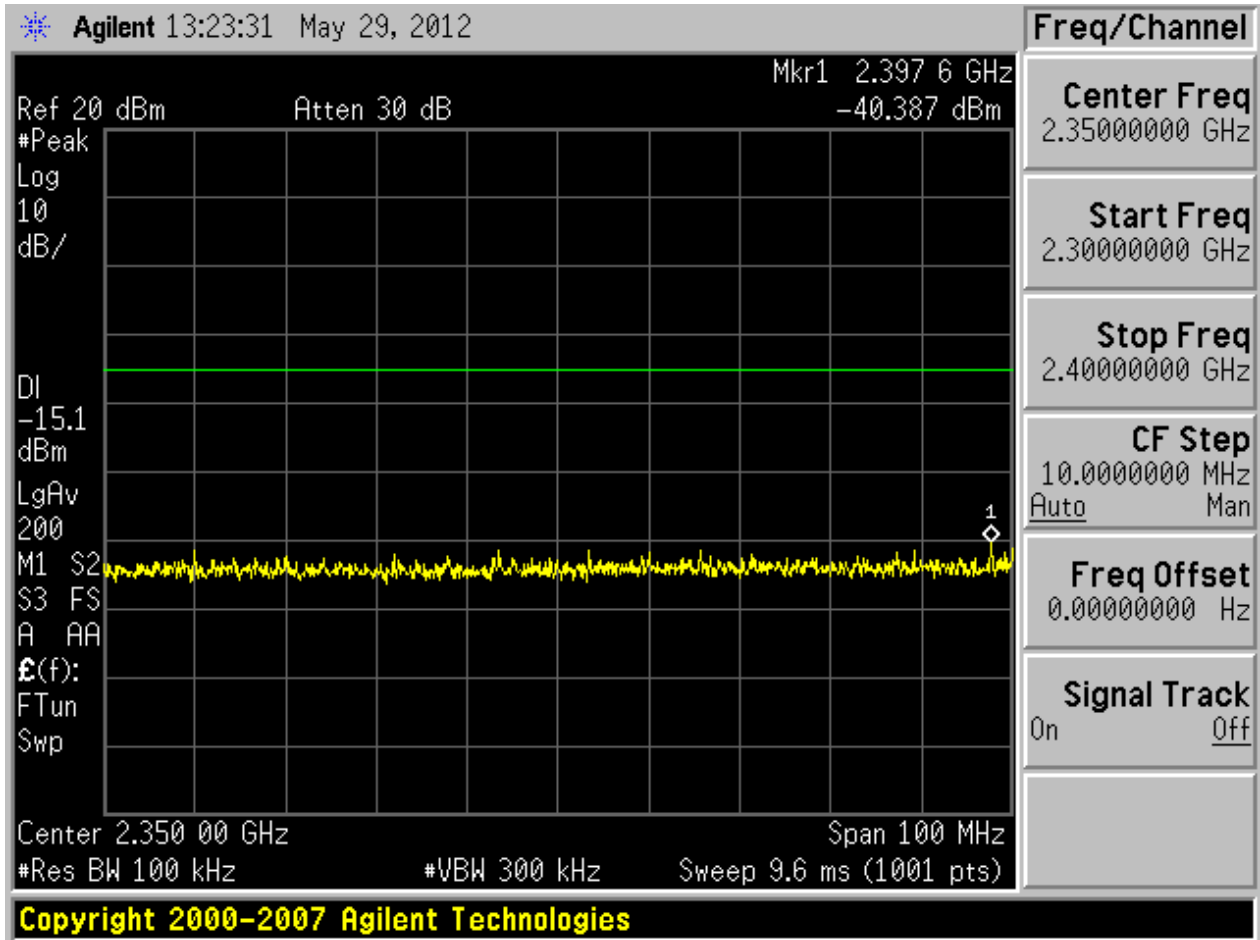
## 2.4.2 Puw

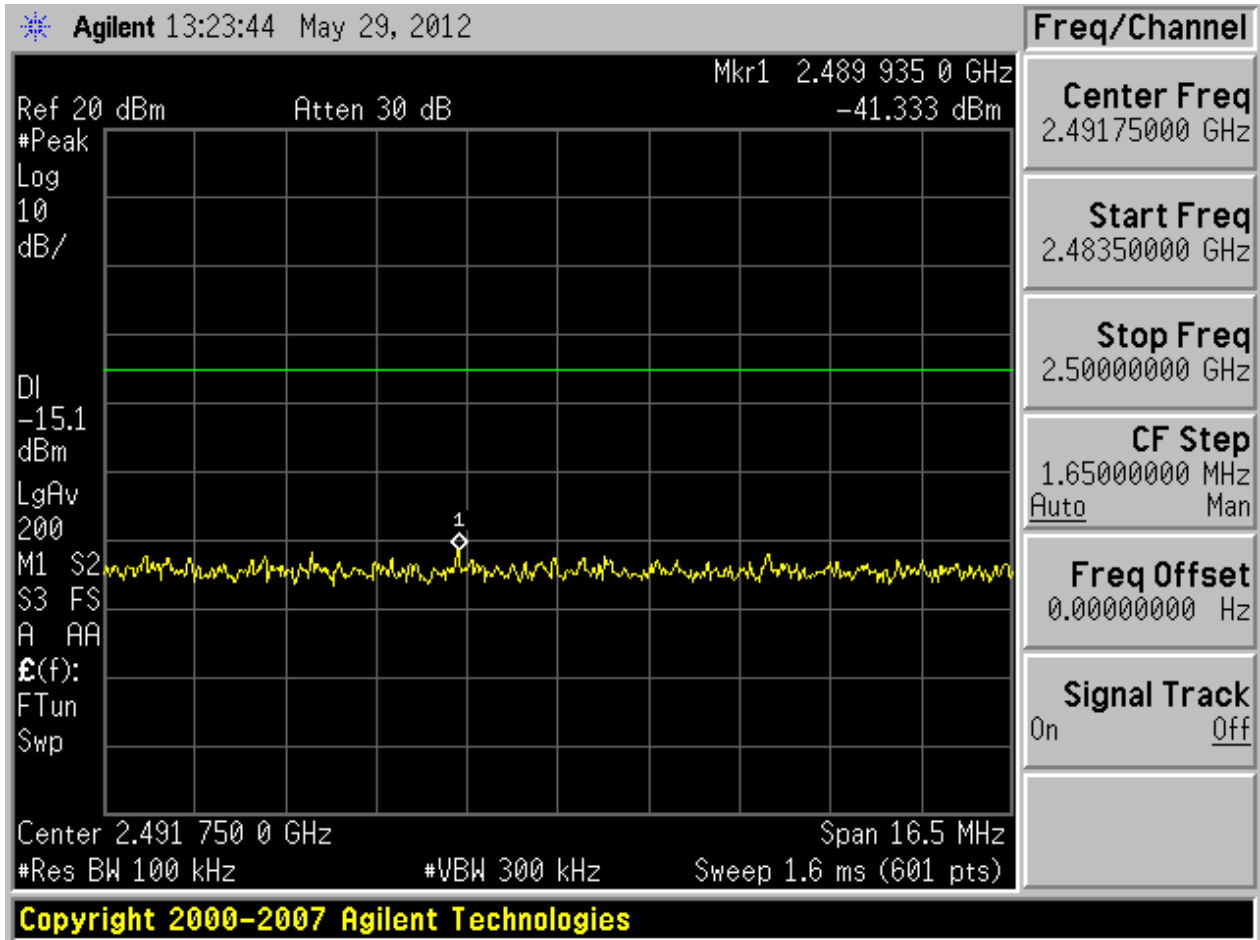


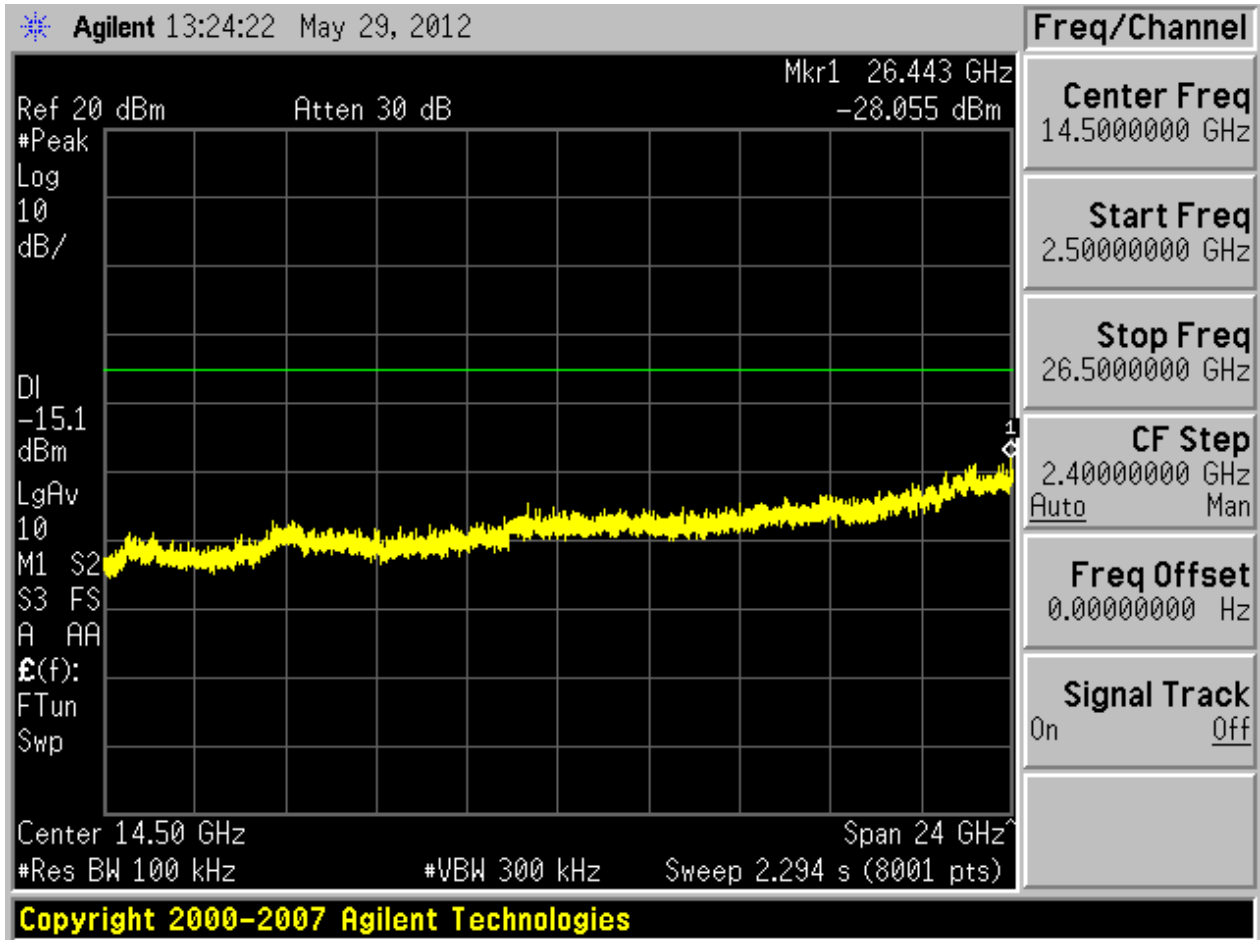






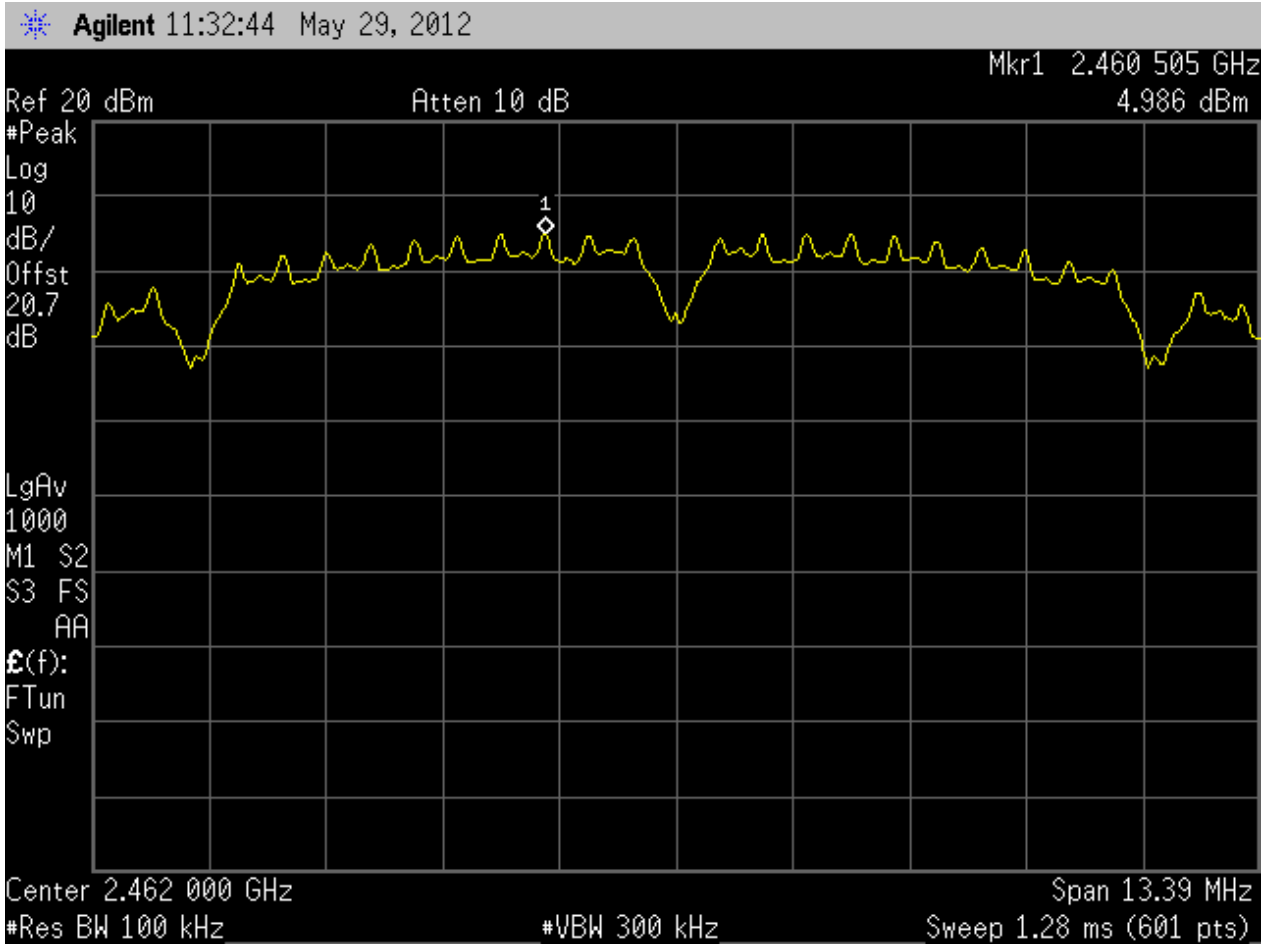




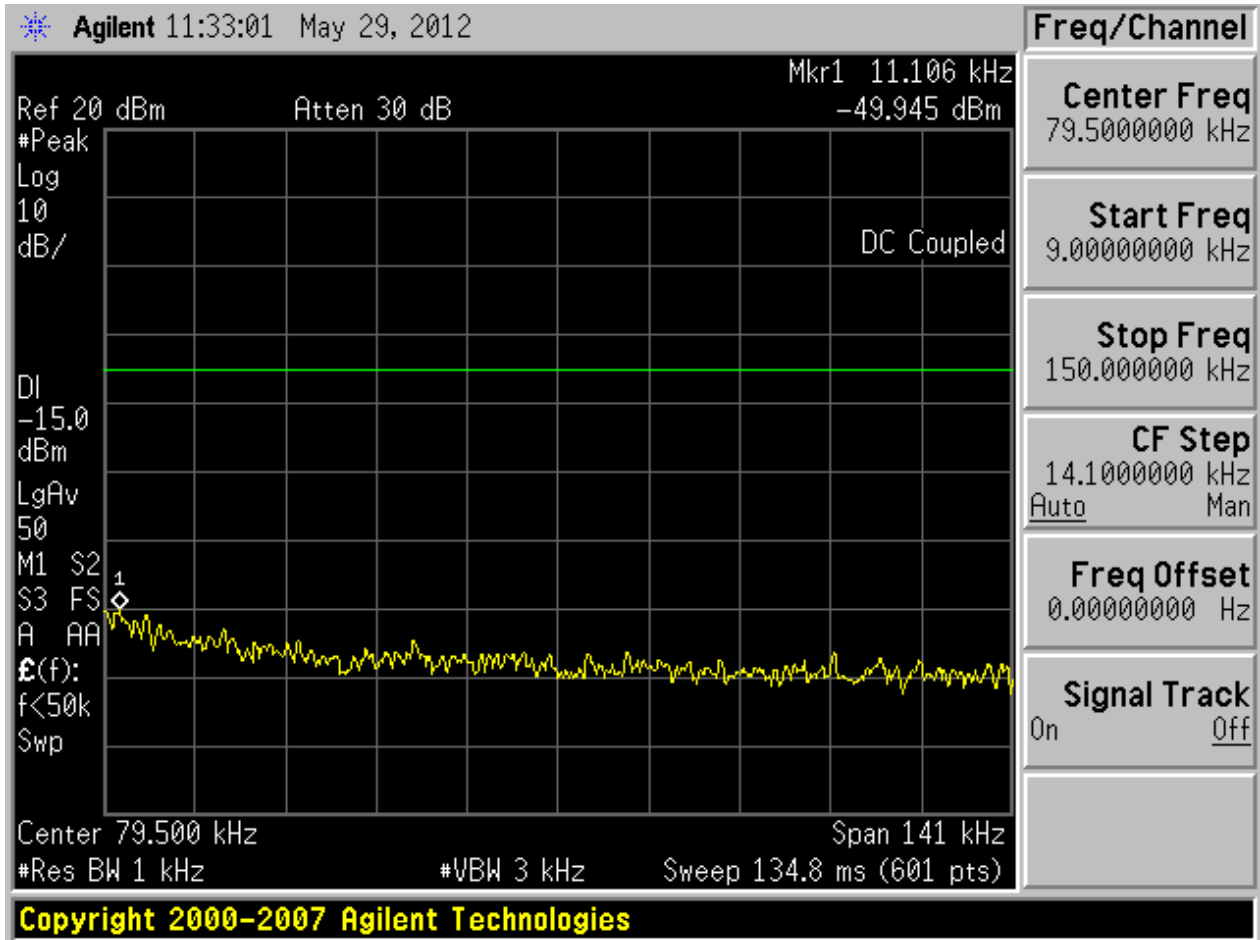


## 2.5 11B/1\_T@1

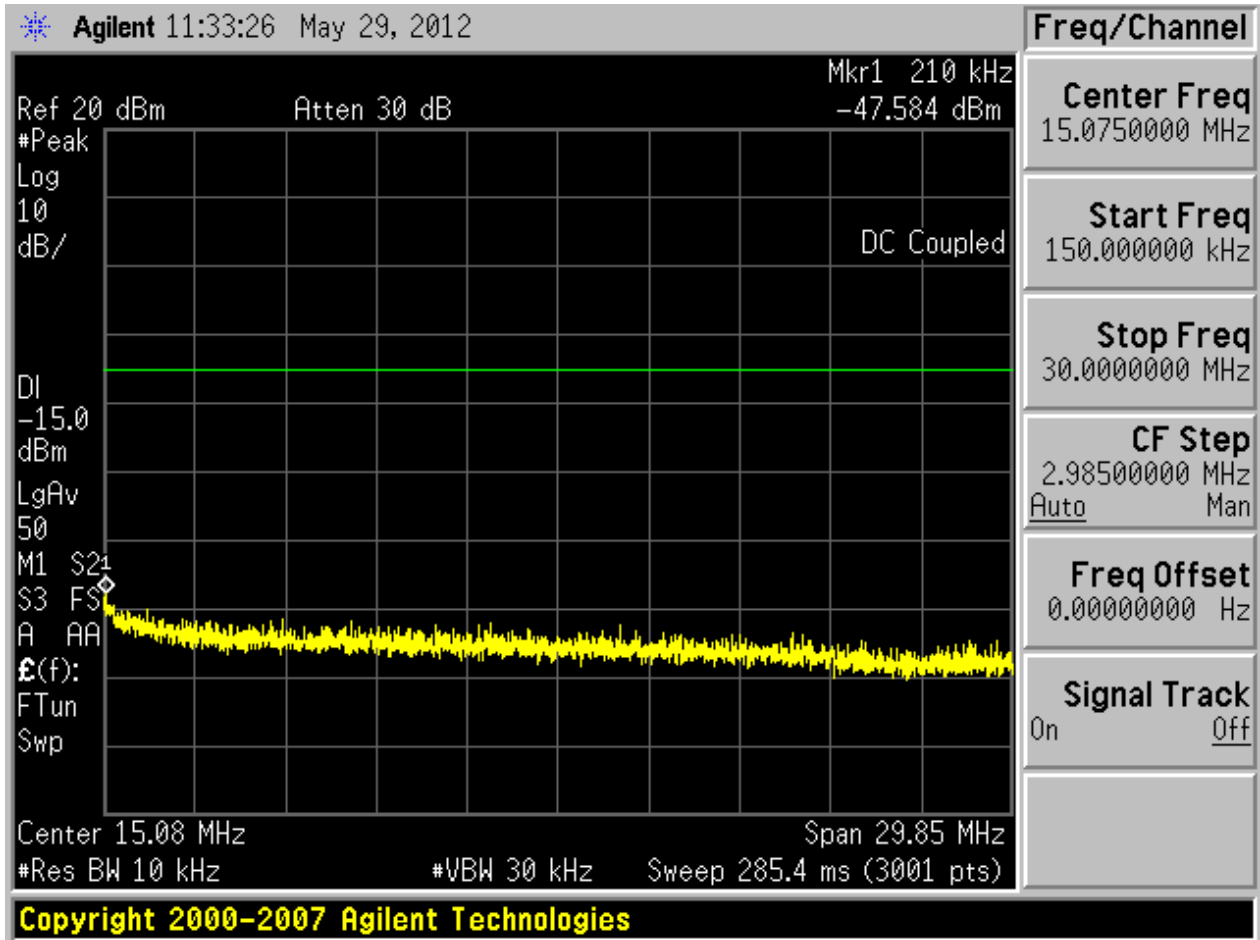
### 2.5.1 Pref

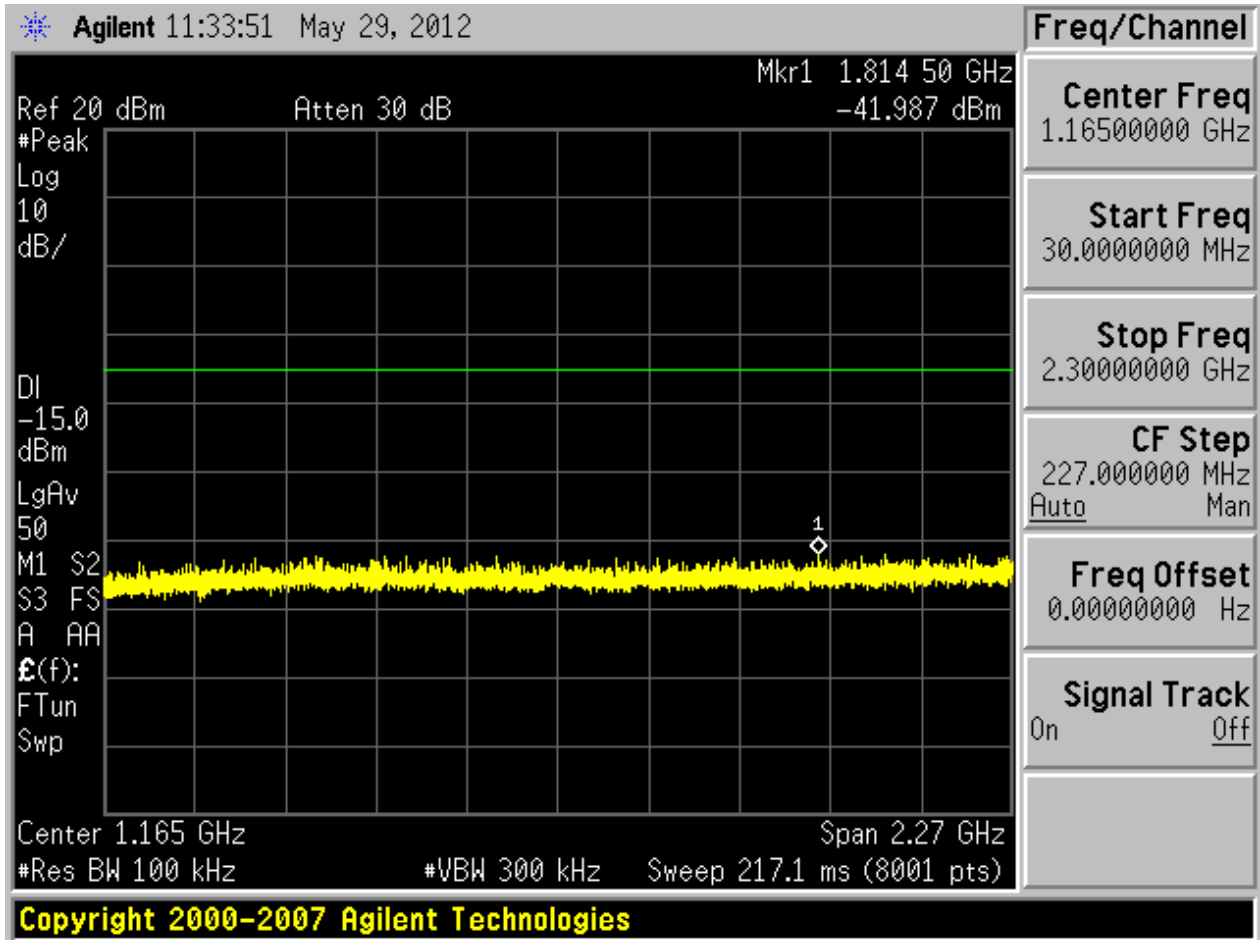


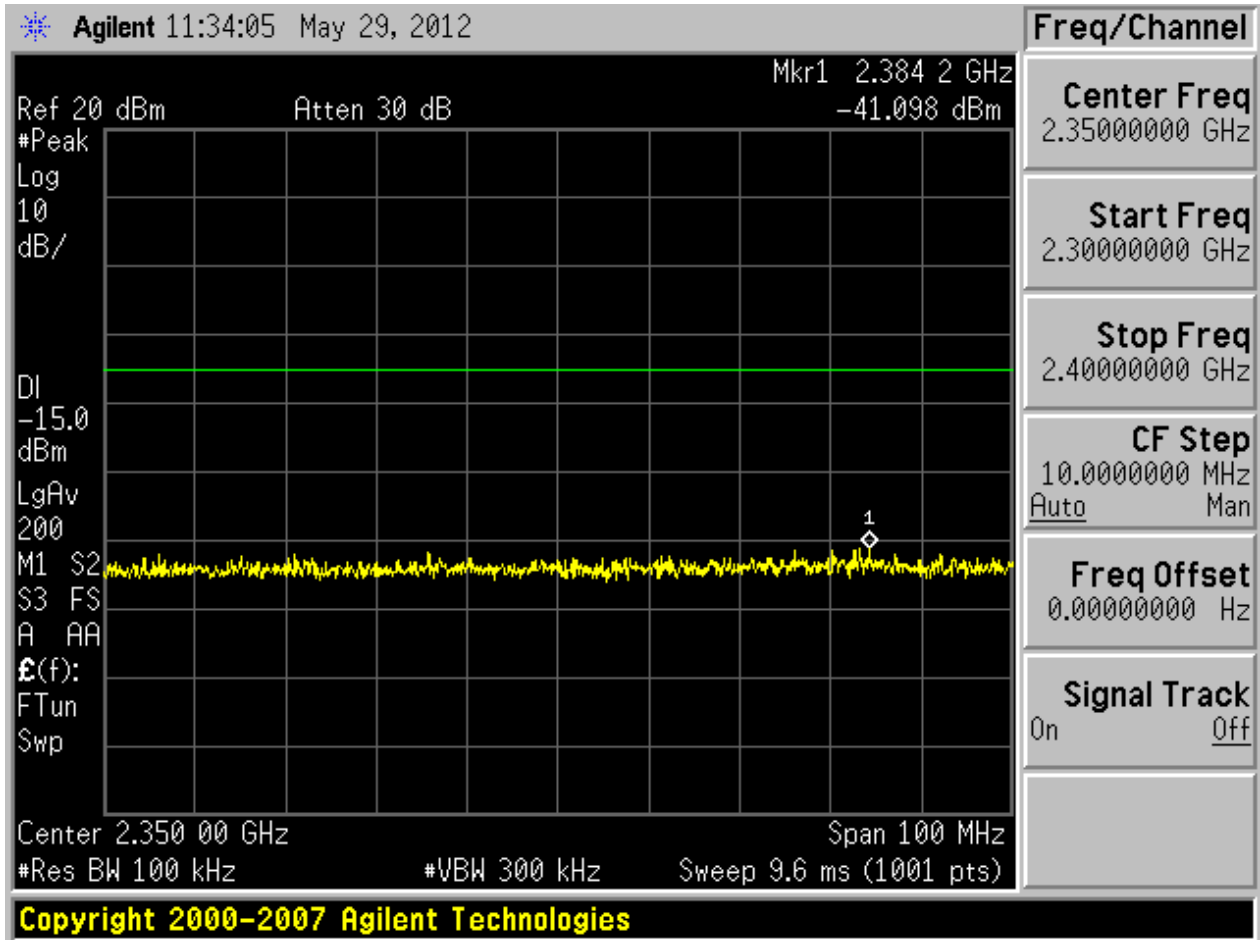
## 2.5.2 Puw

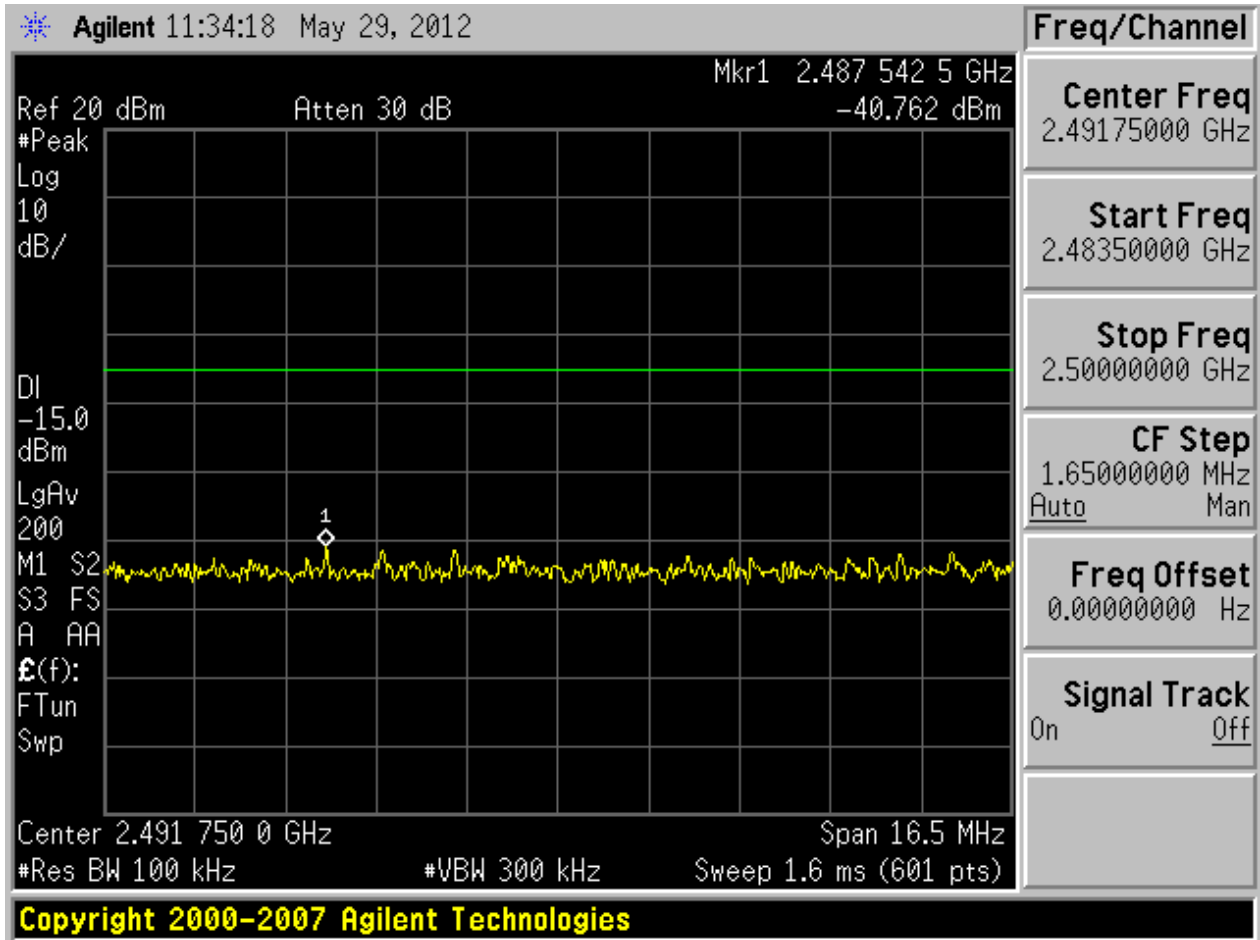


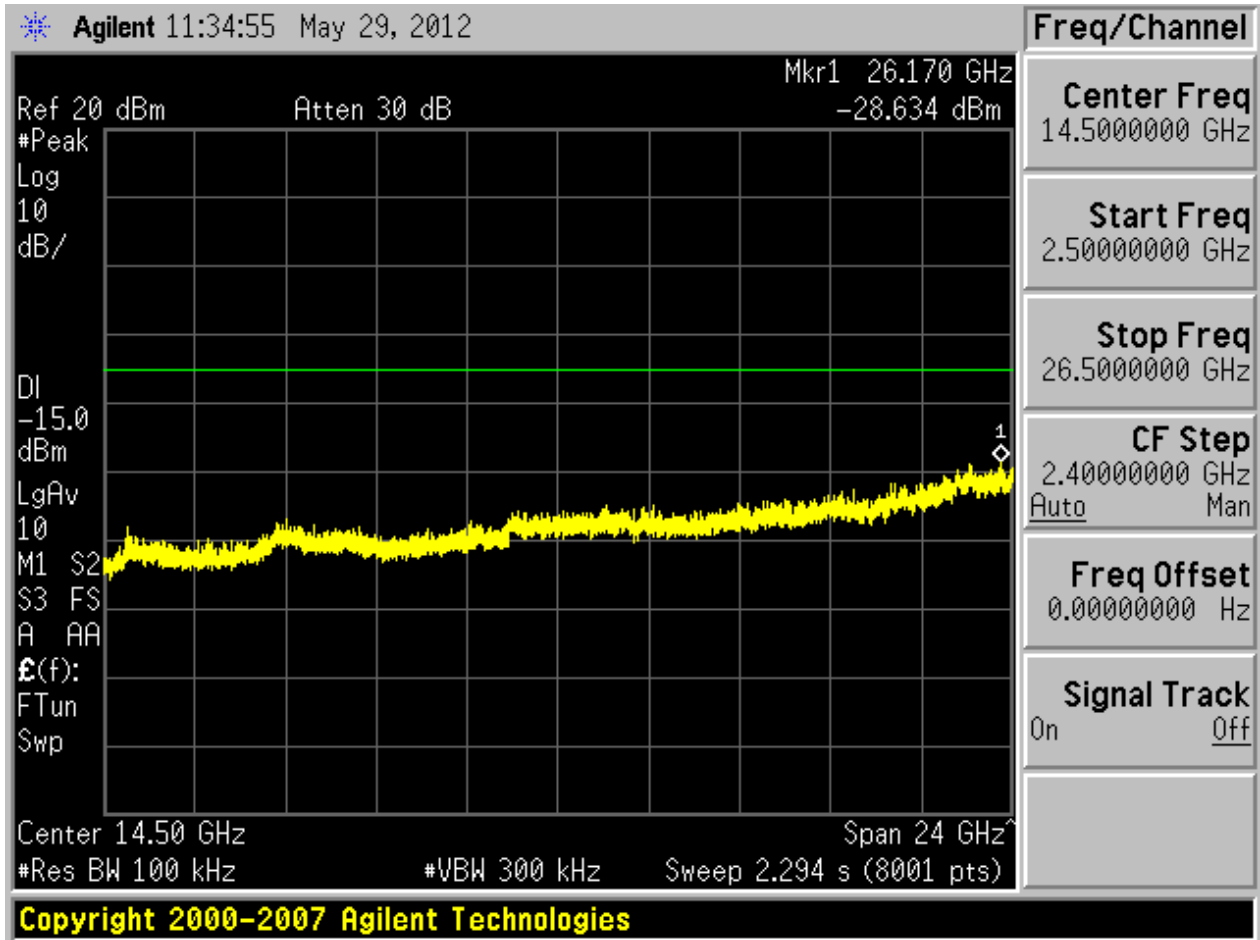






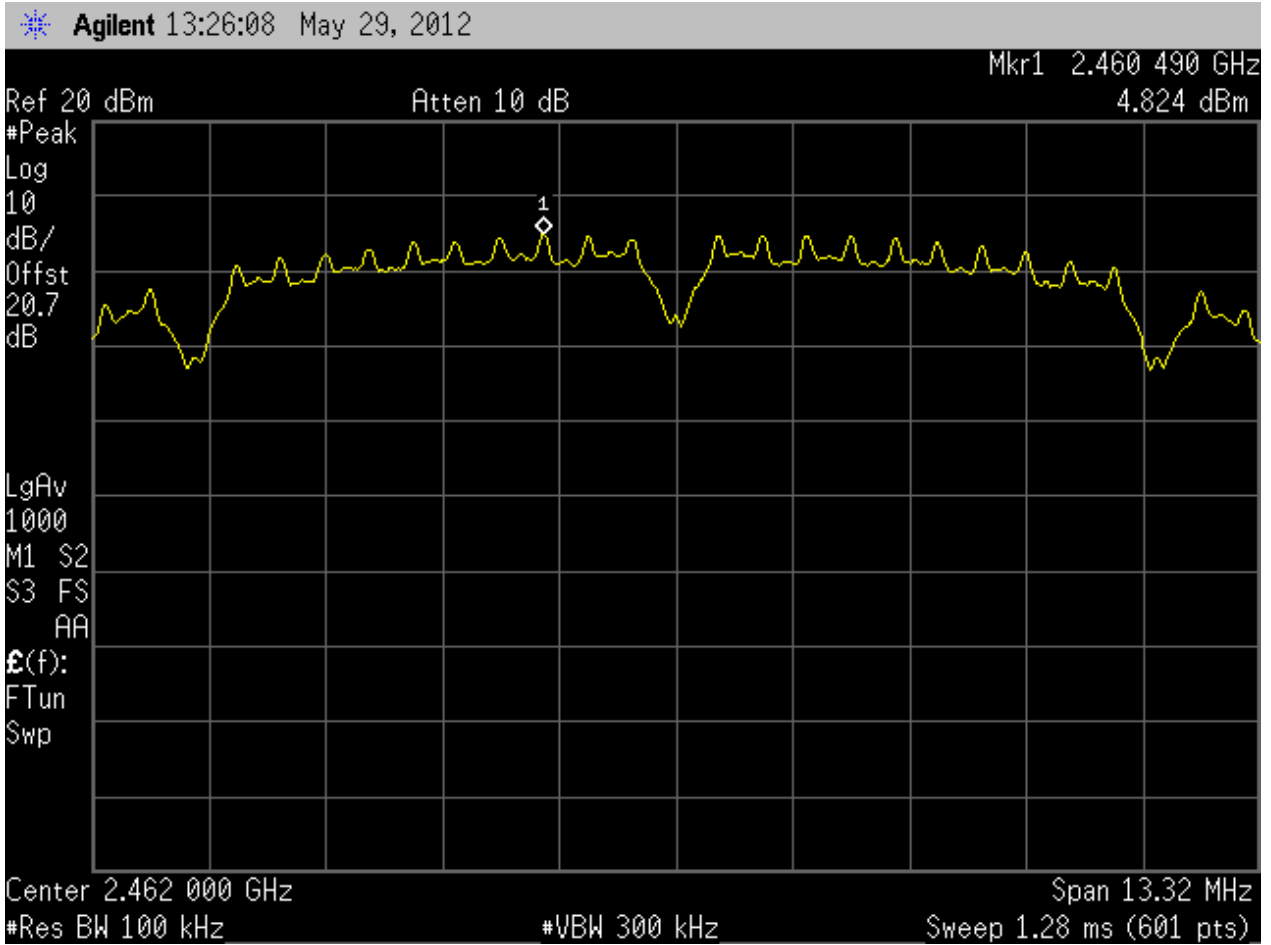




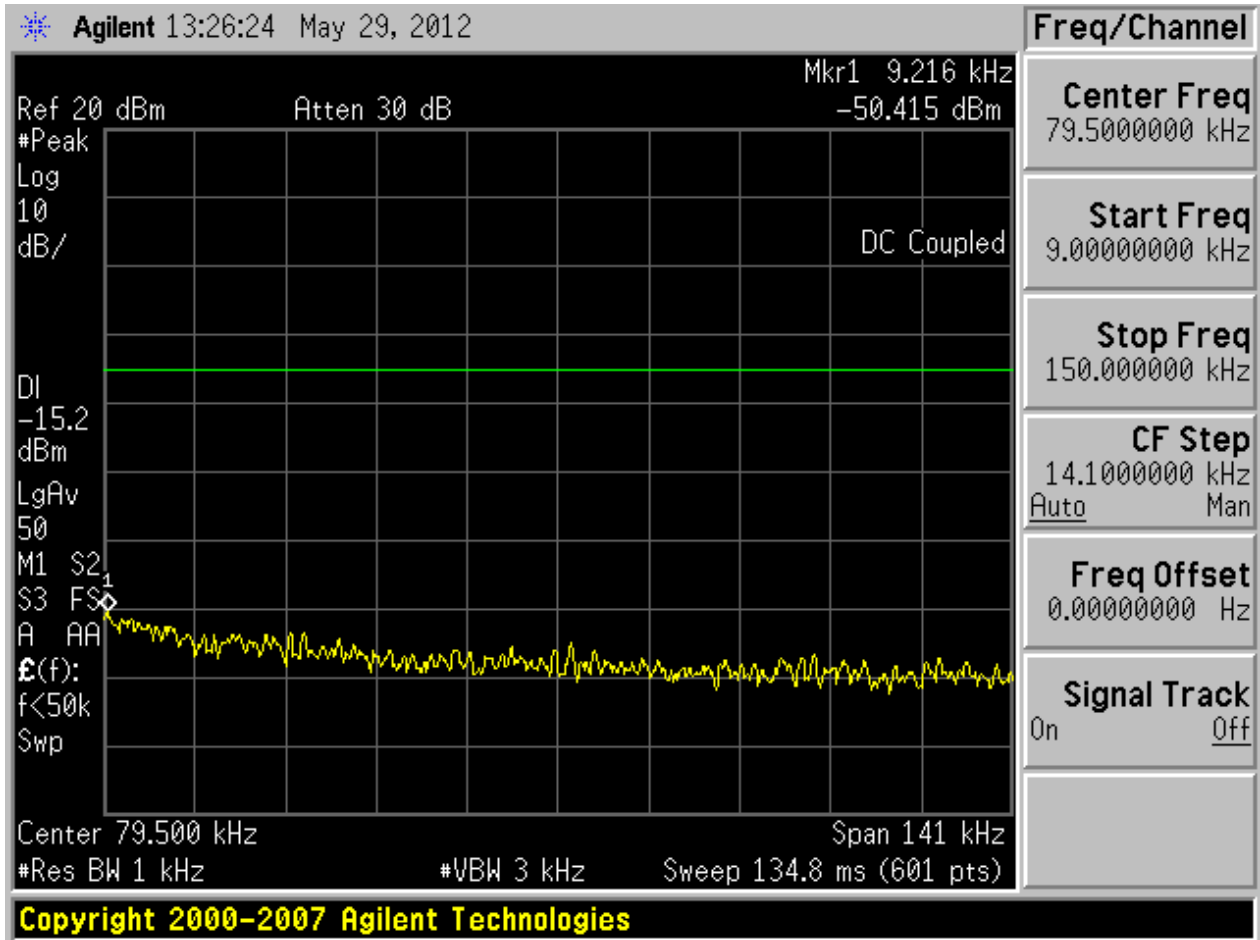


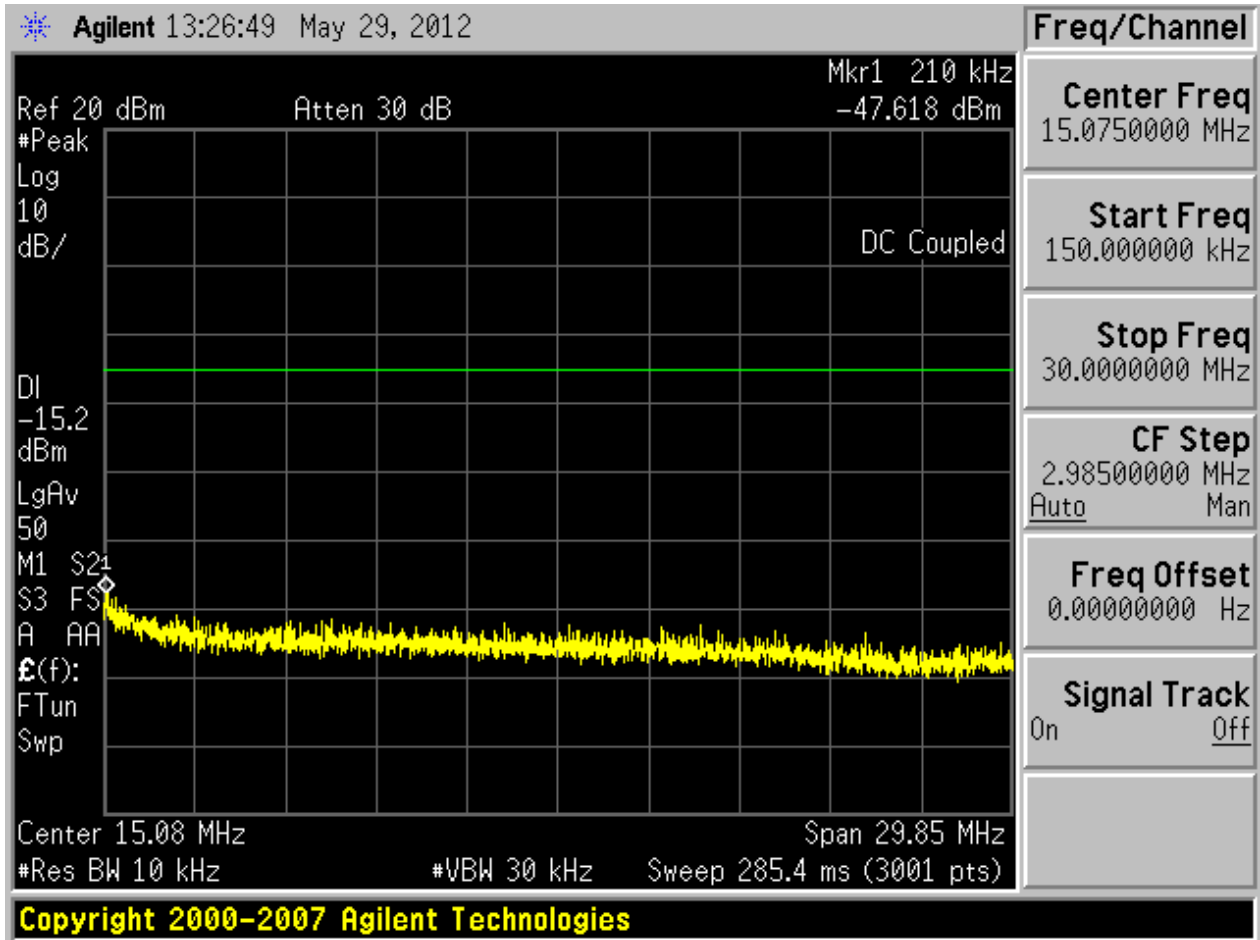
## 2.6 11B/1\_T@2

### 2.6.1 Pref

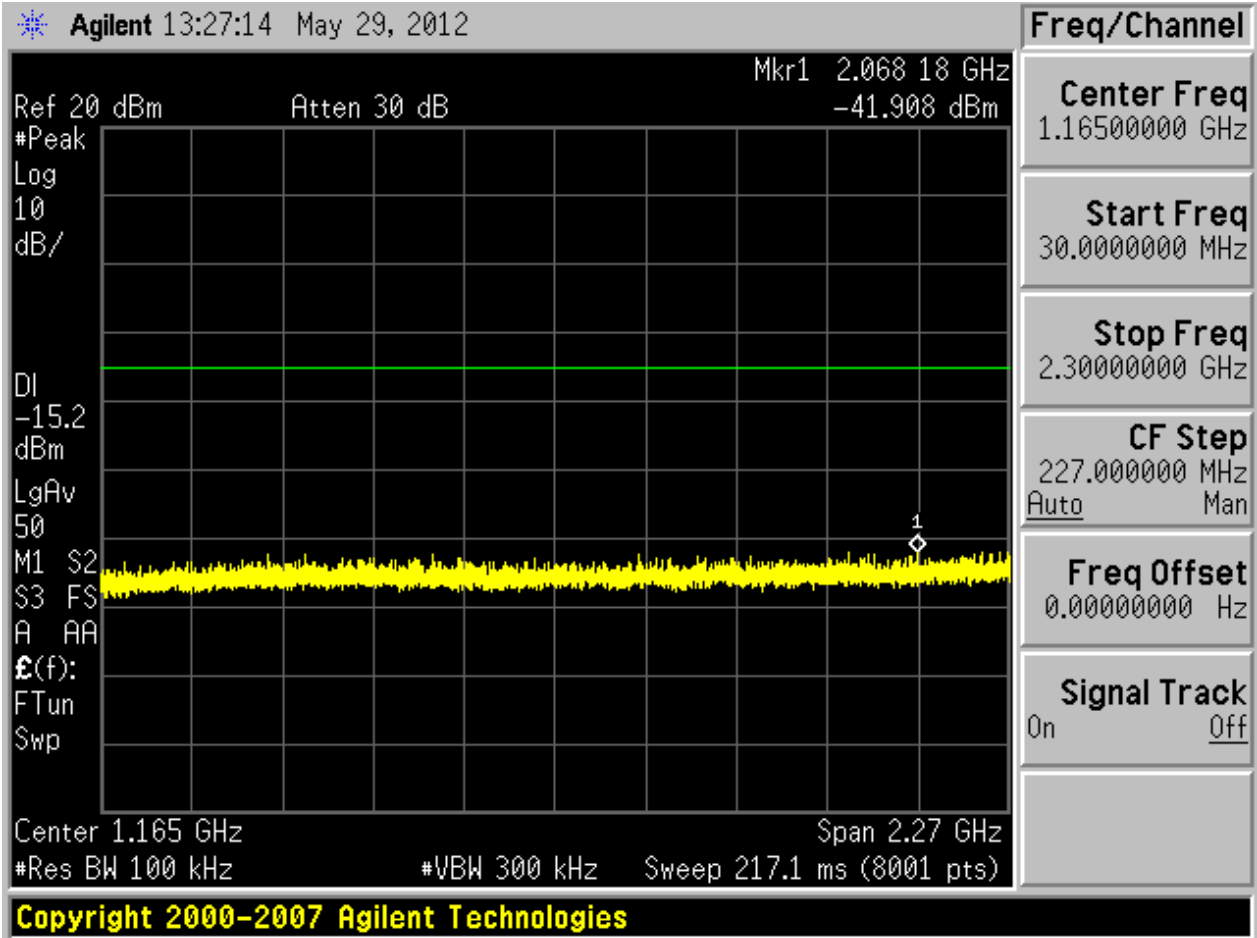


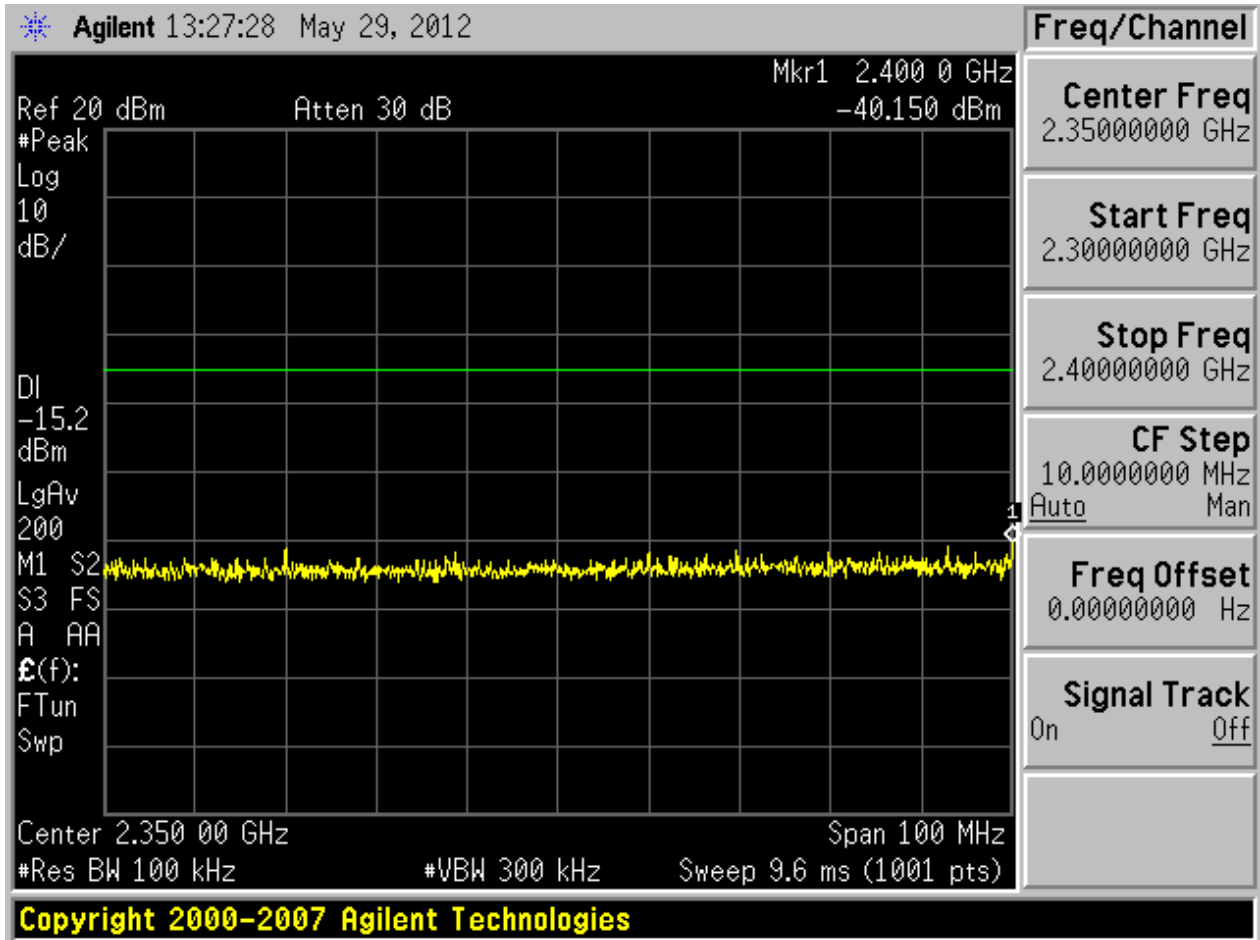
## 2.6.2 Puw

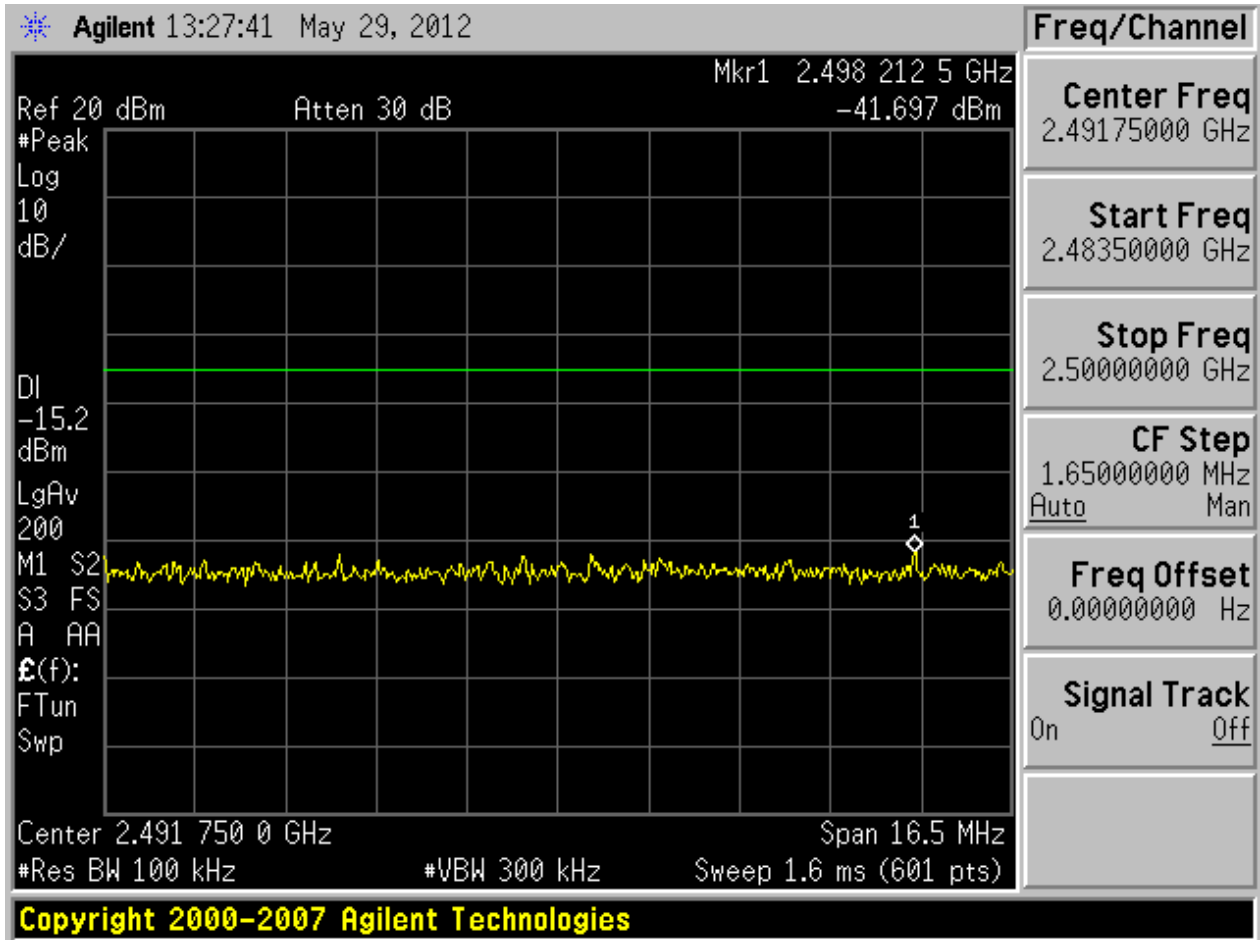


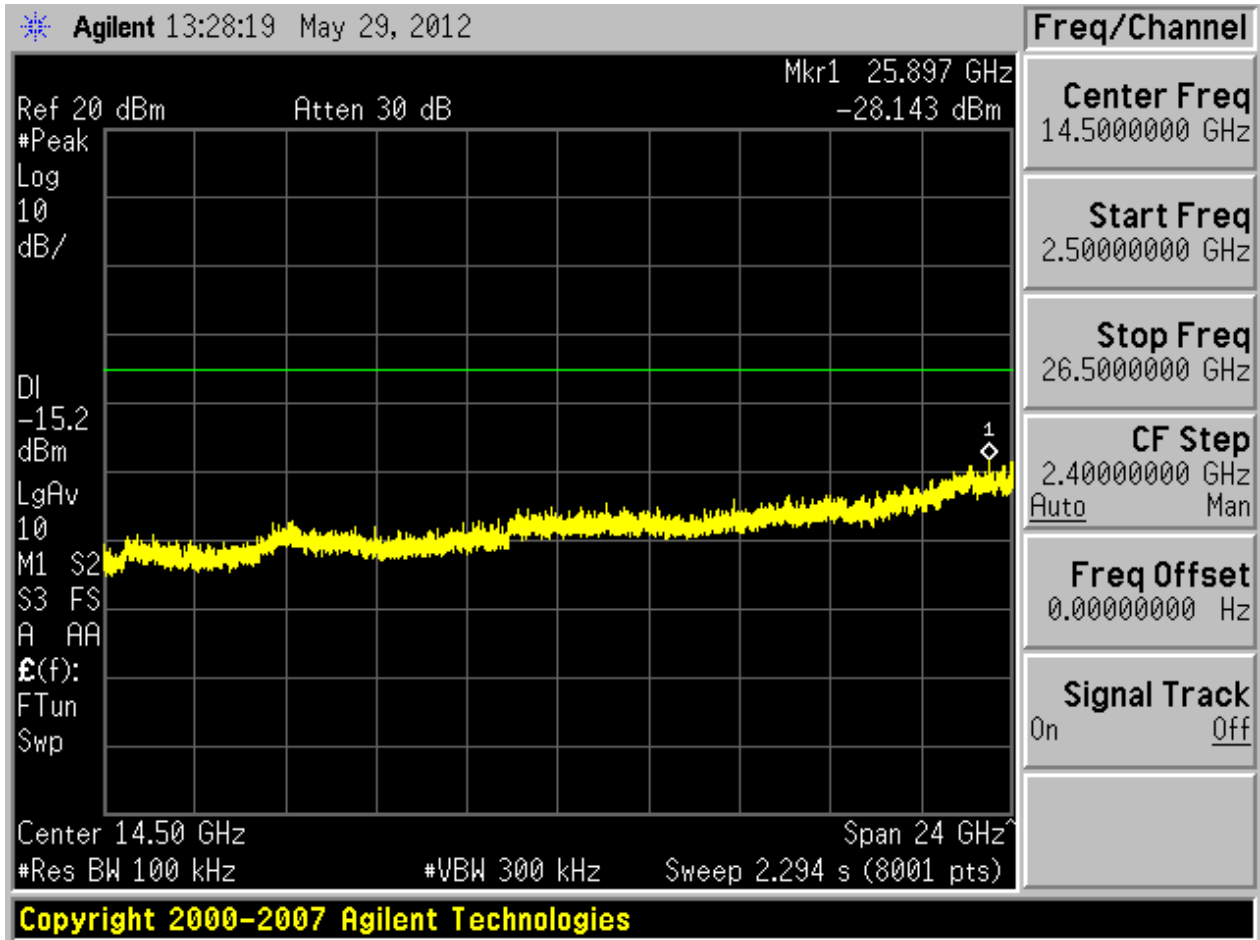






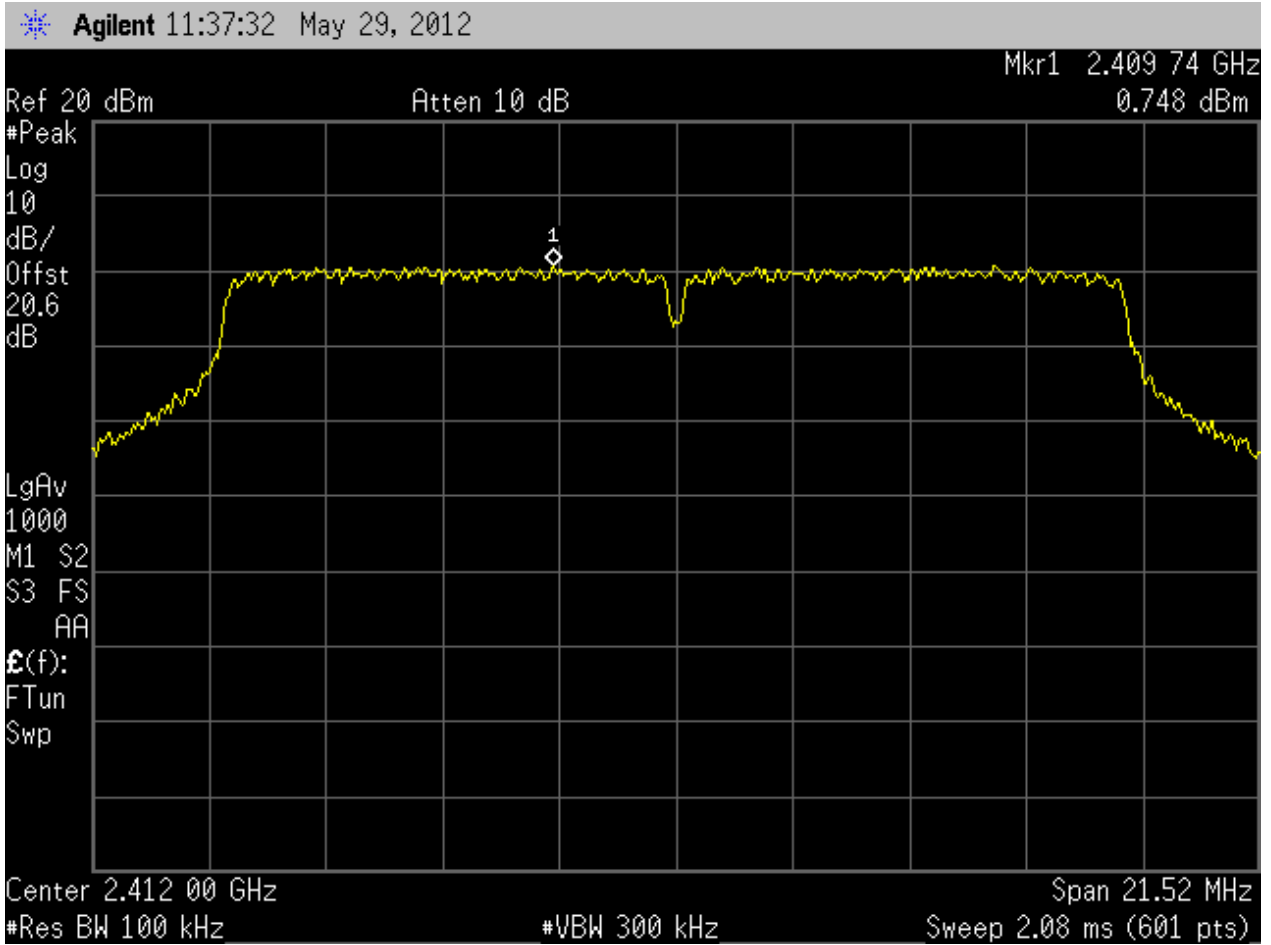




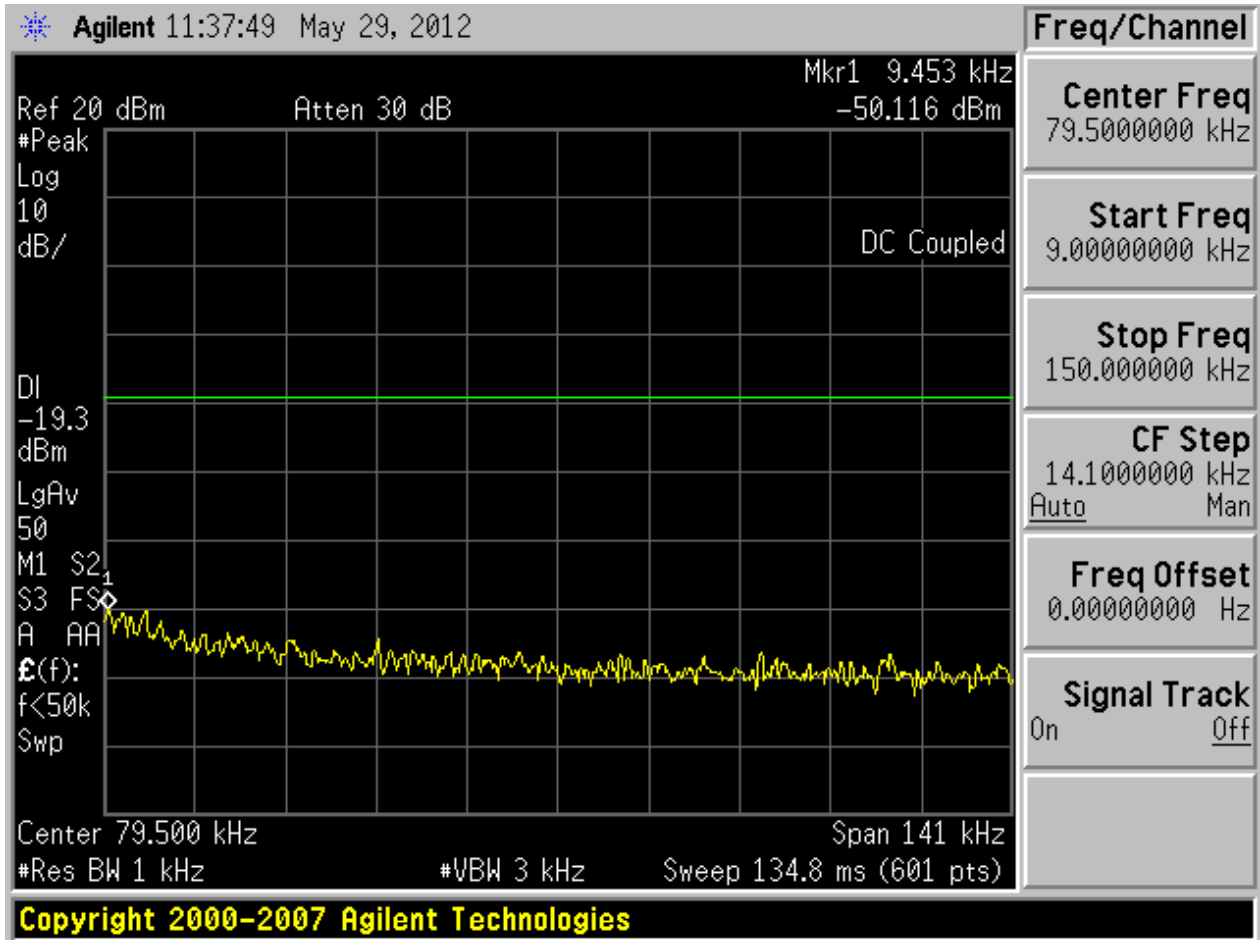


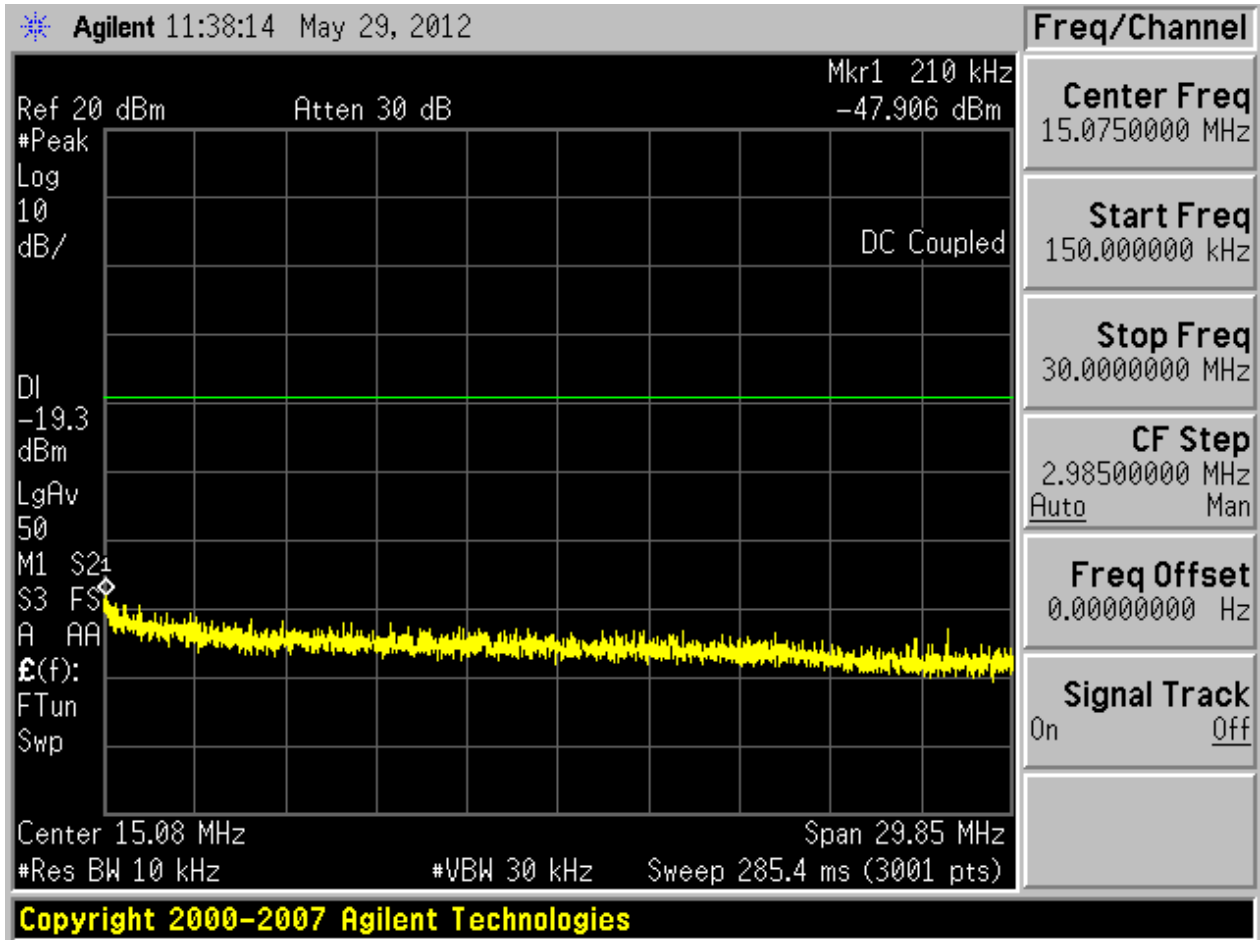
## 2.7 11G/6\_B@1

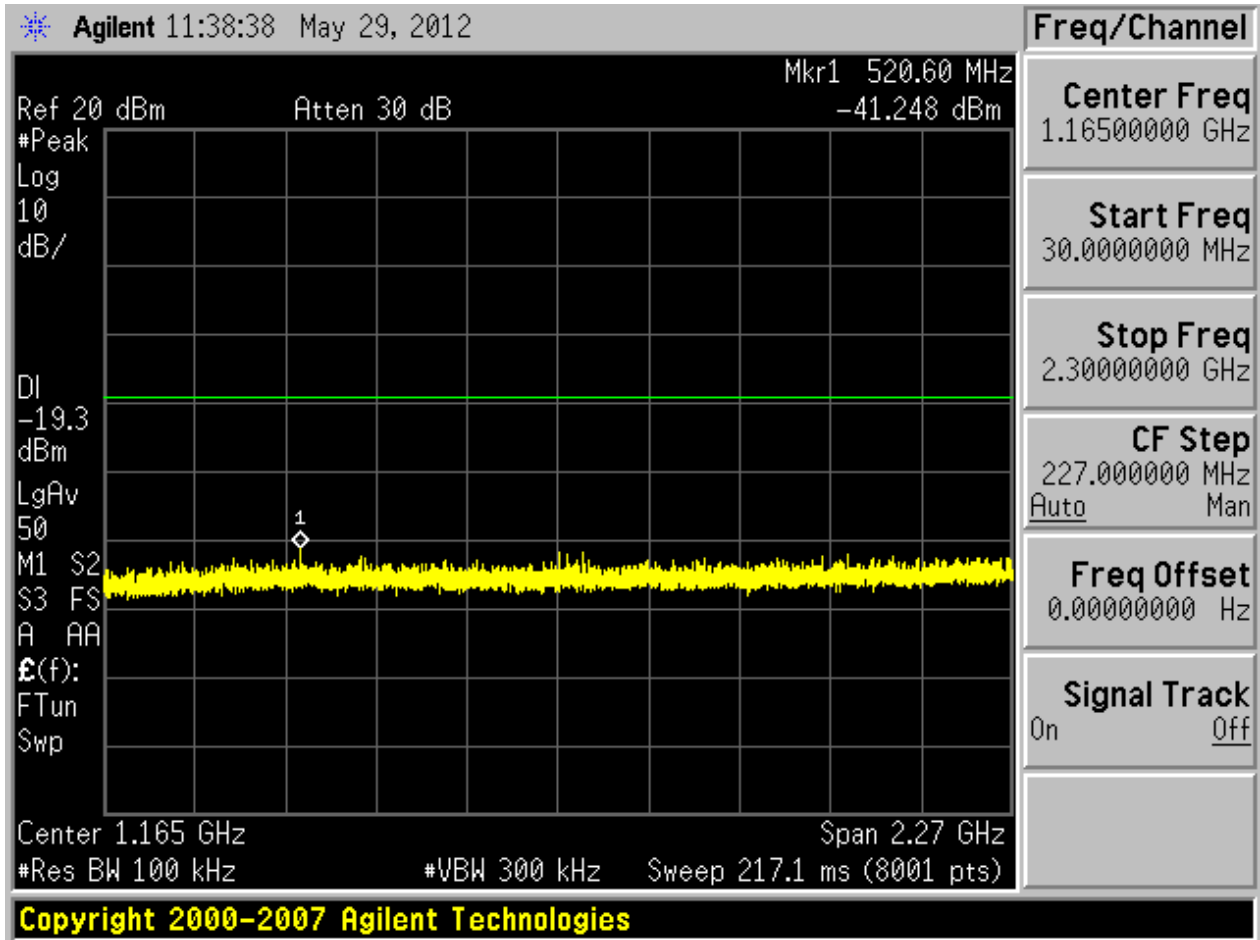
### 2.7.1 Pref



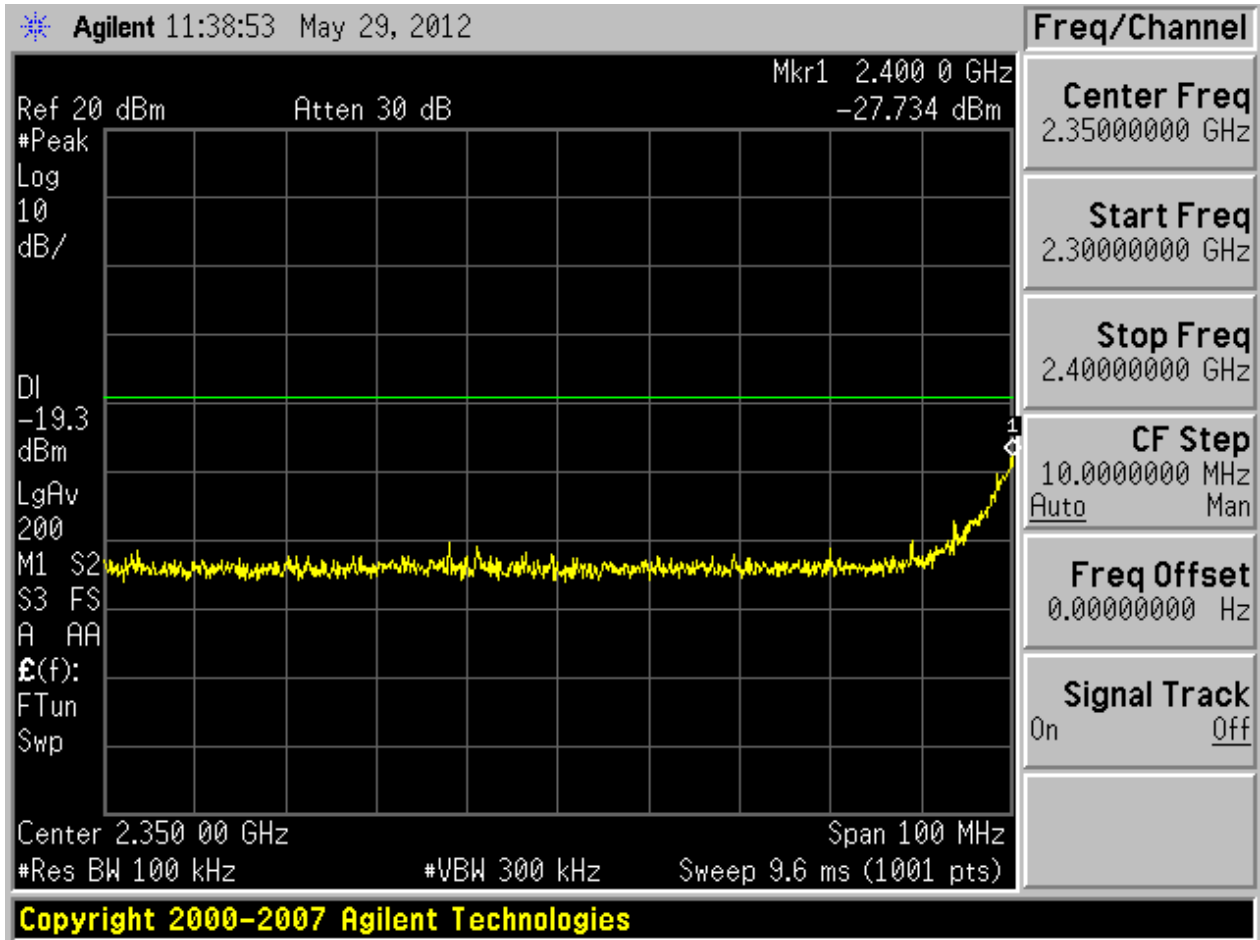
### 2.7.2 Puw

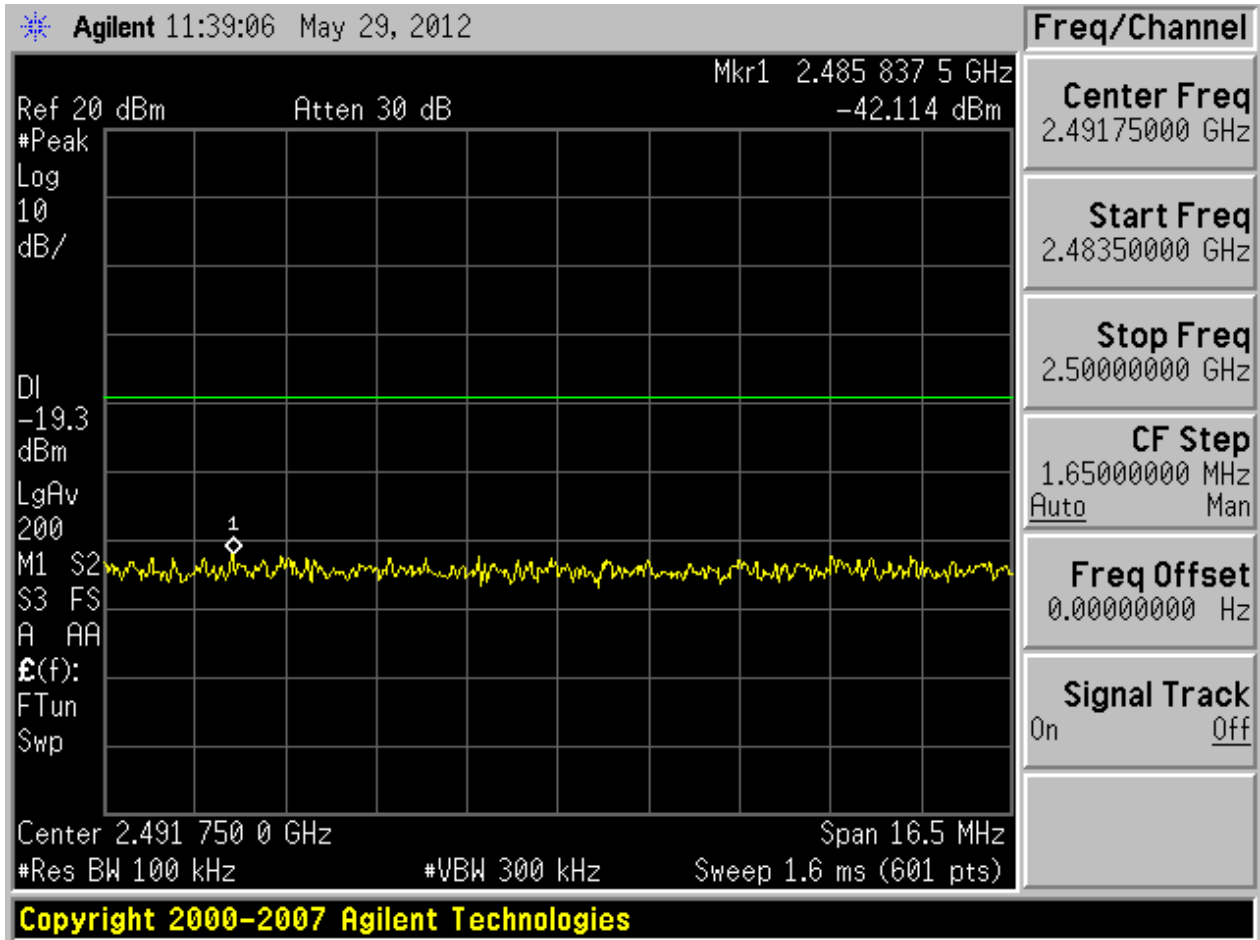


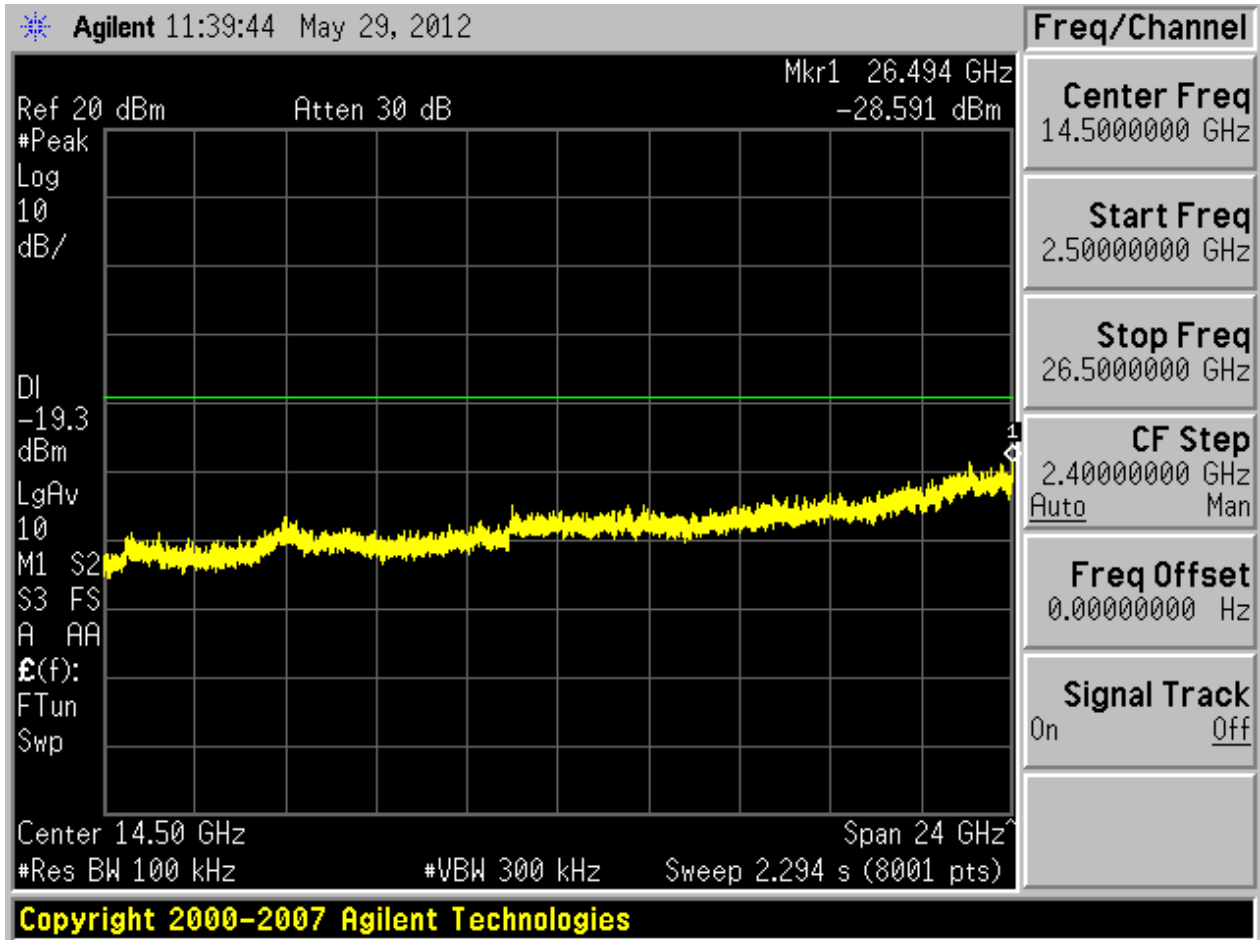






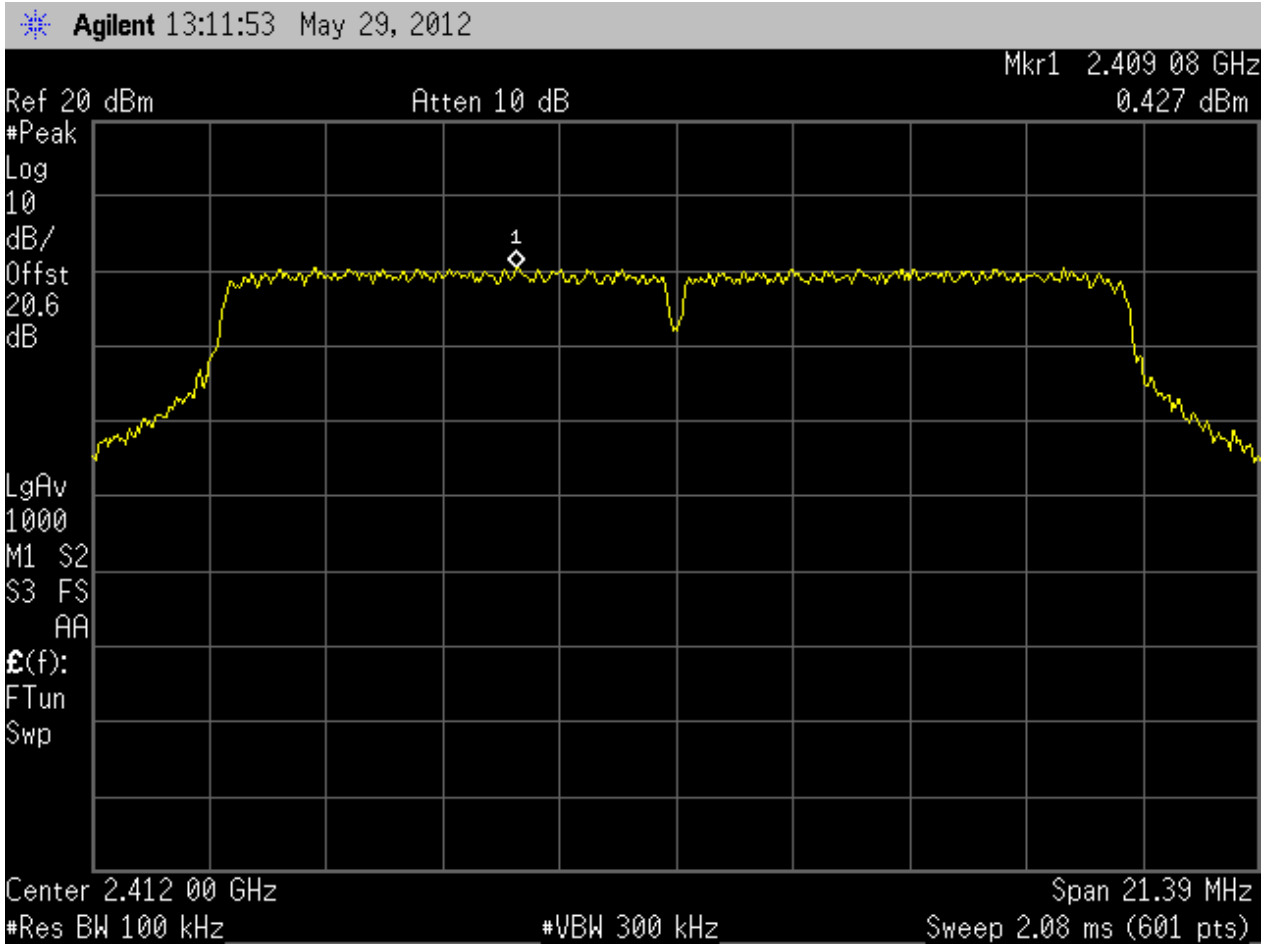




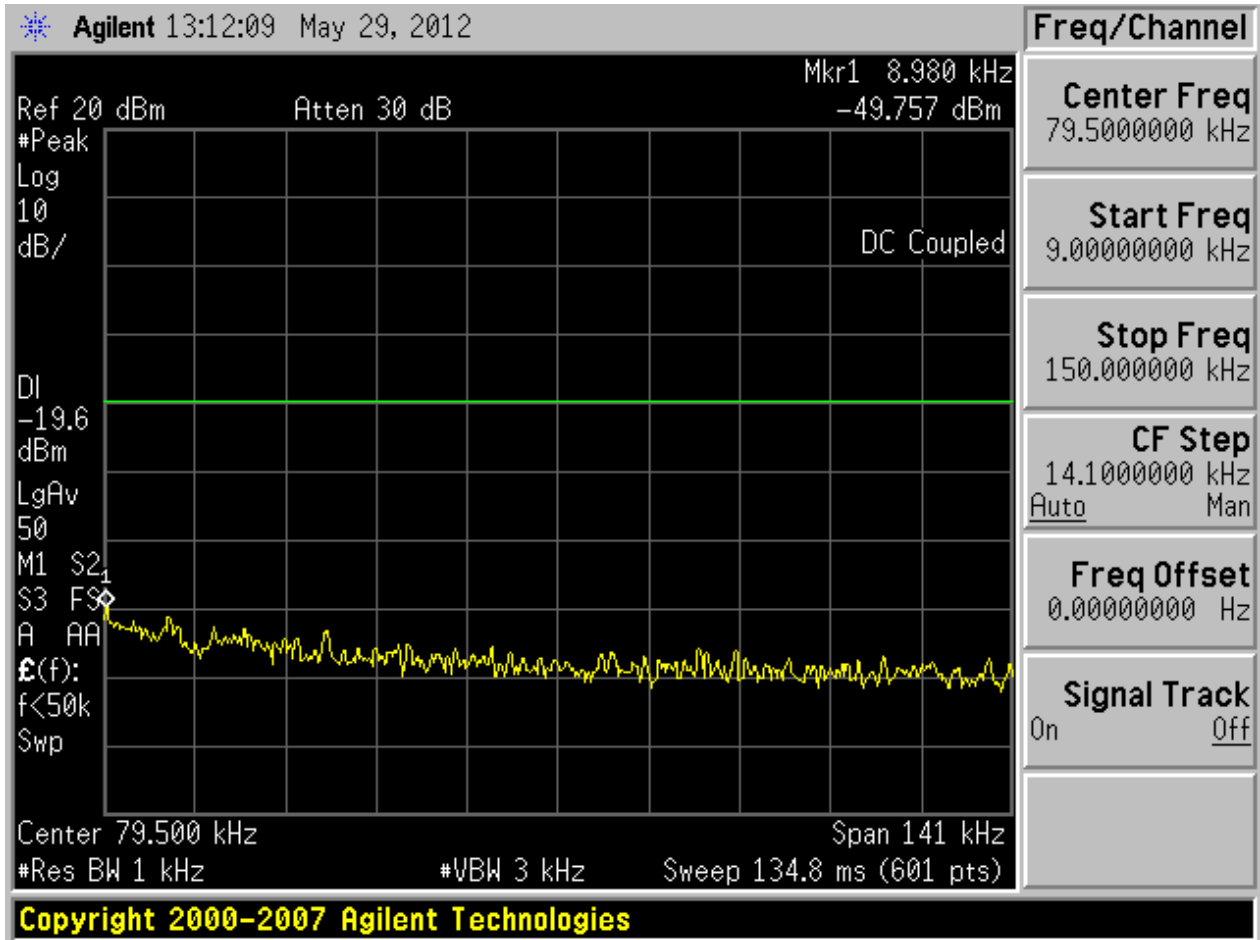


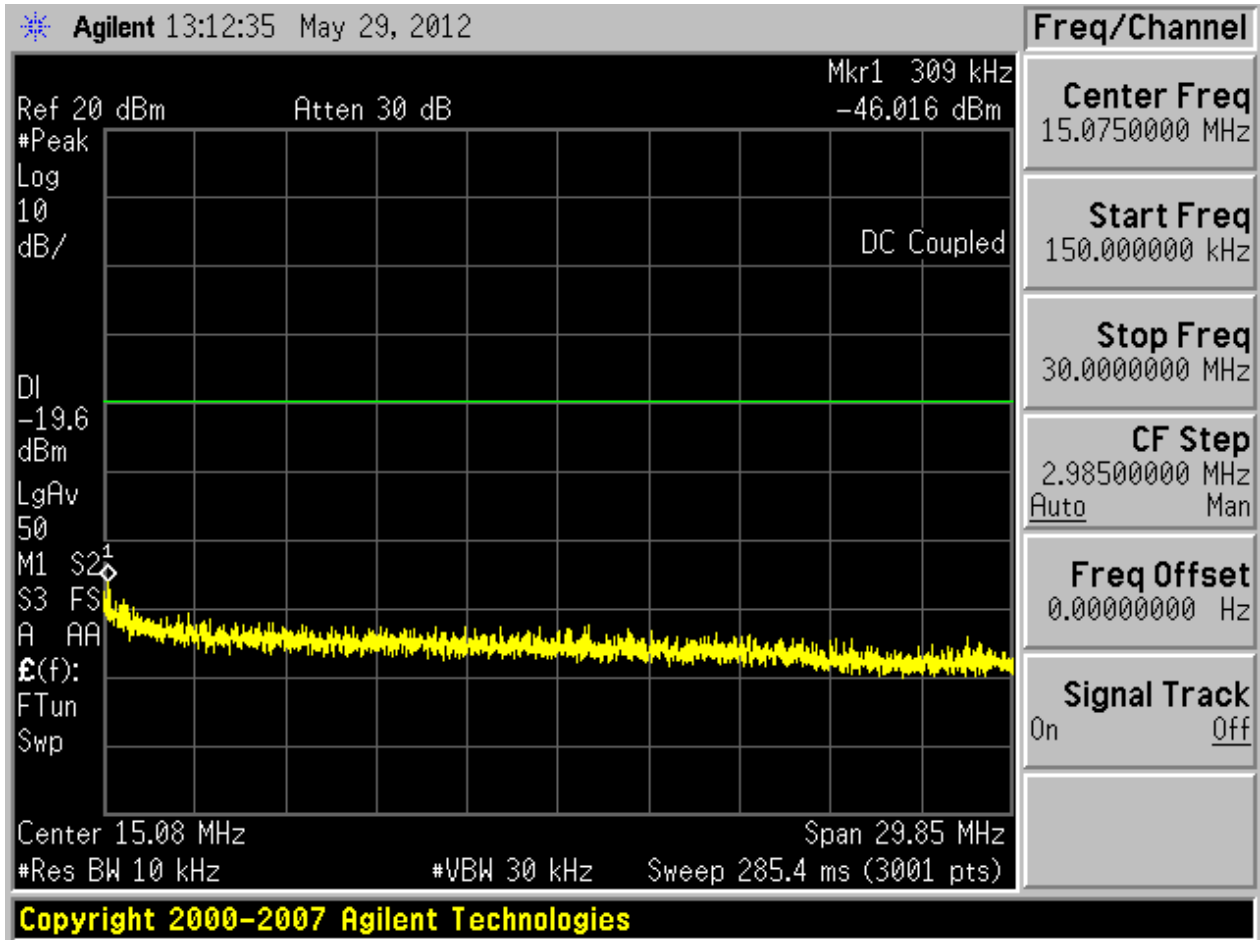
## 2.8 11G/6\_B@2

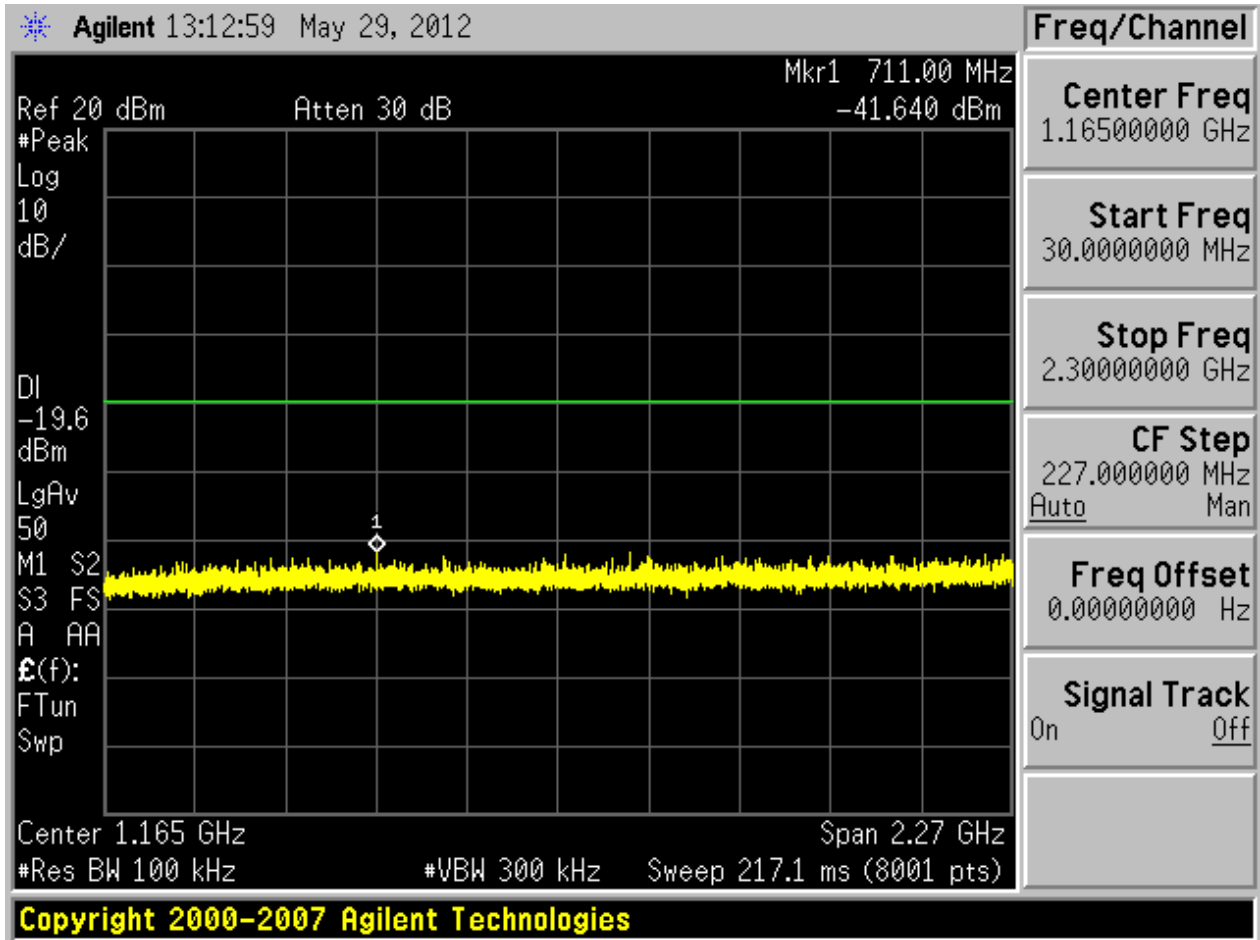
### 2.8.1 Pref

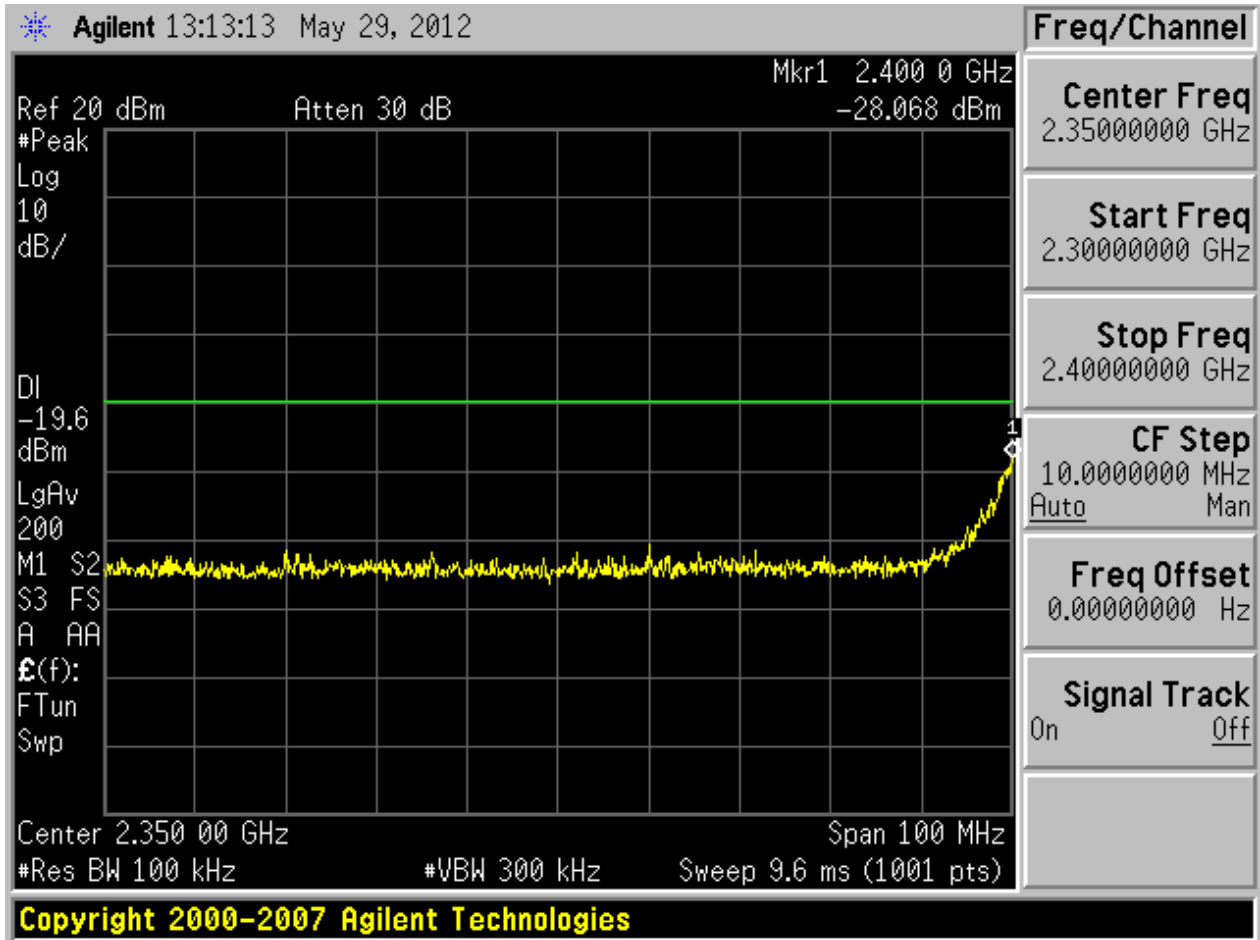


### 2.8.2 Puw

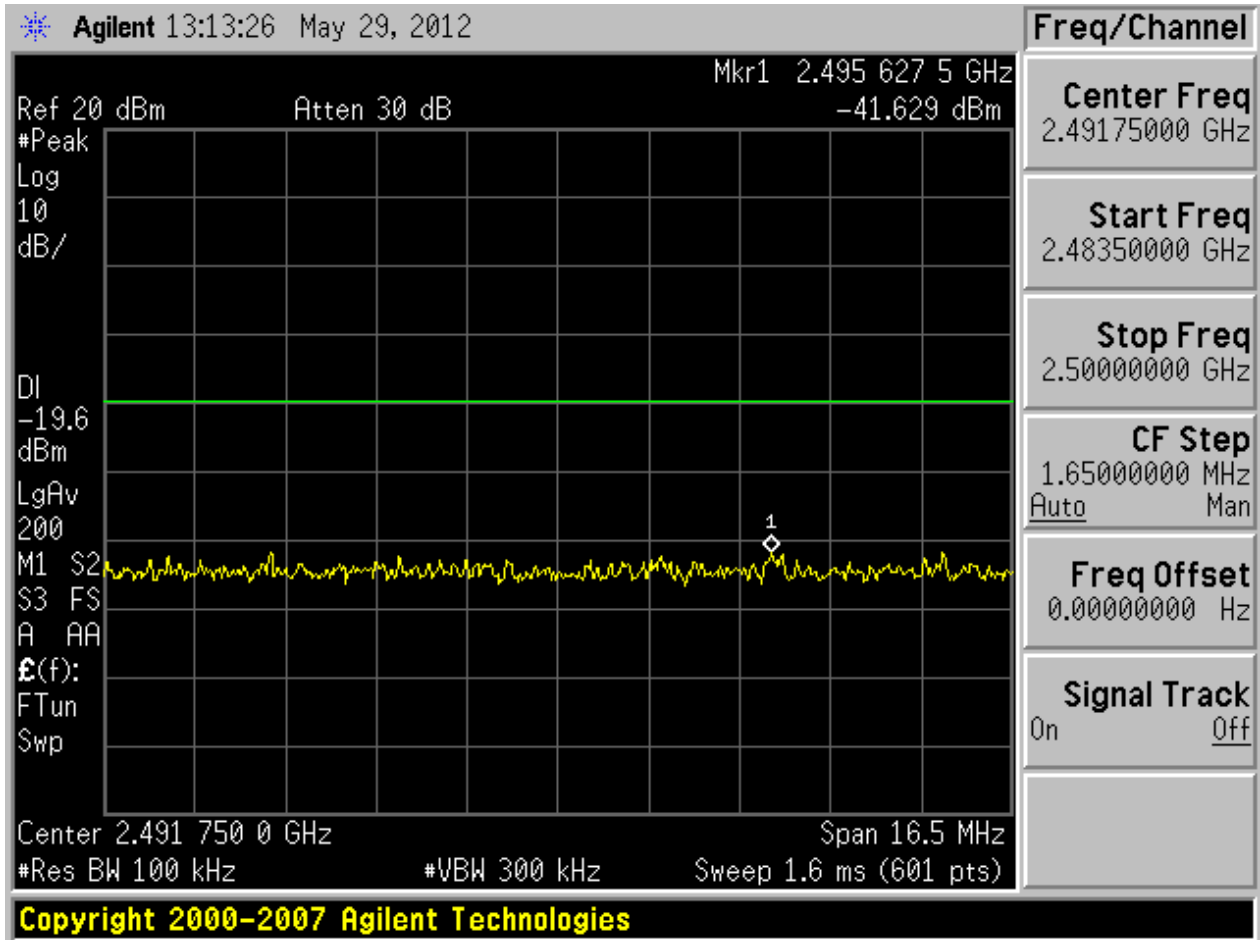


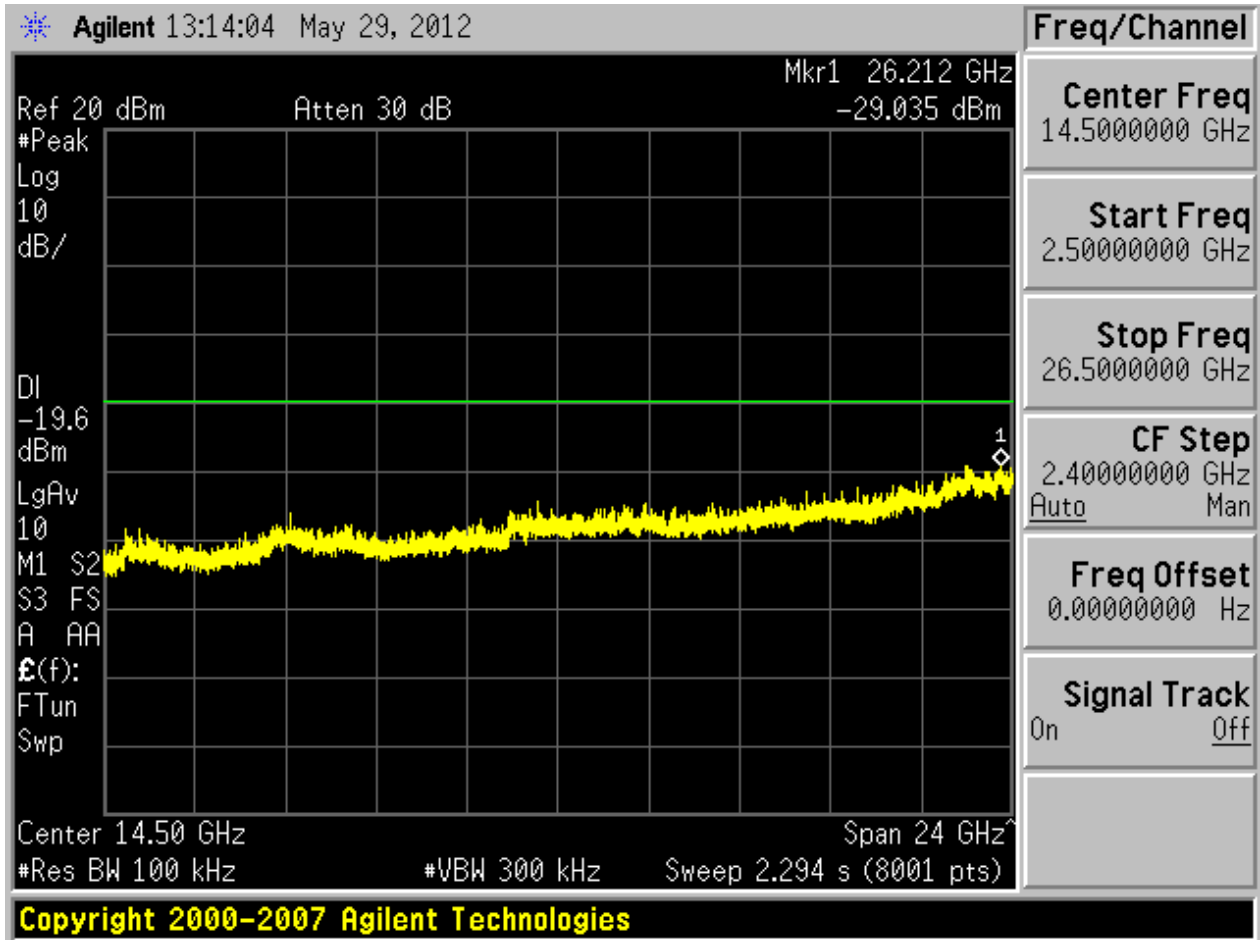






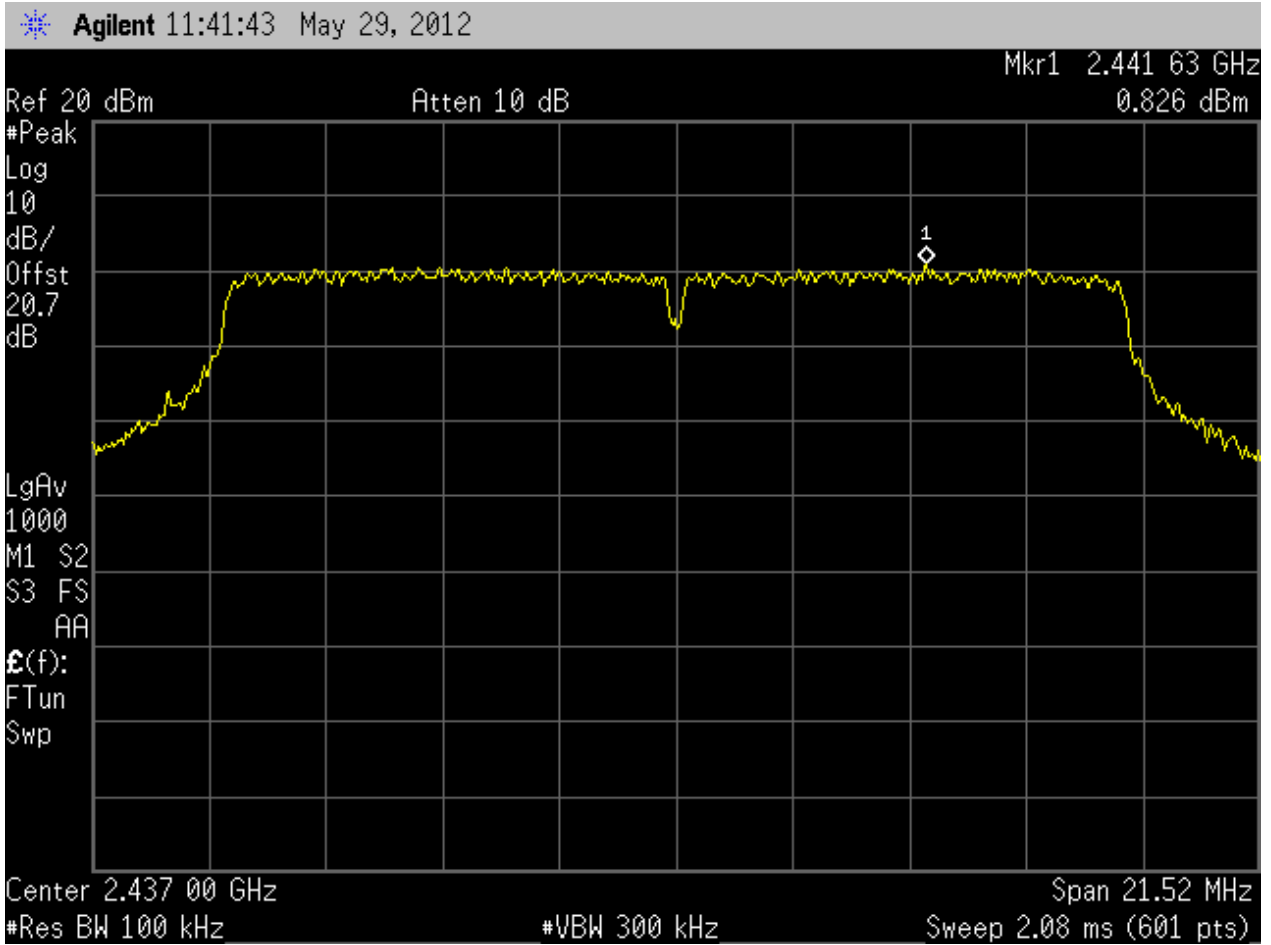




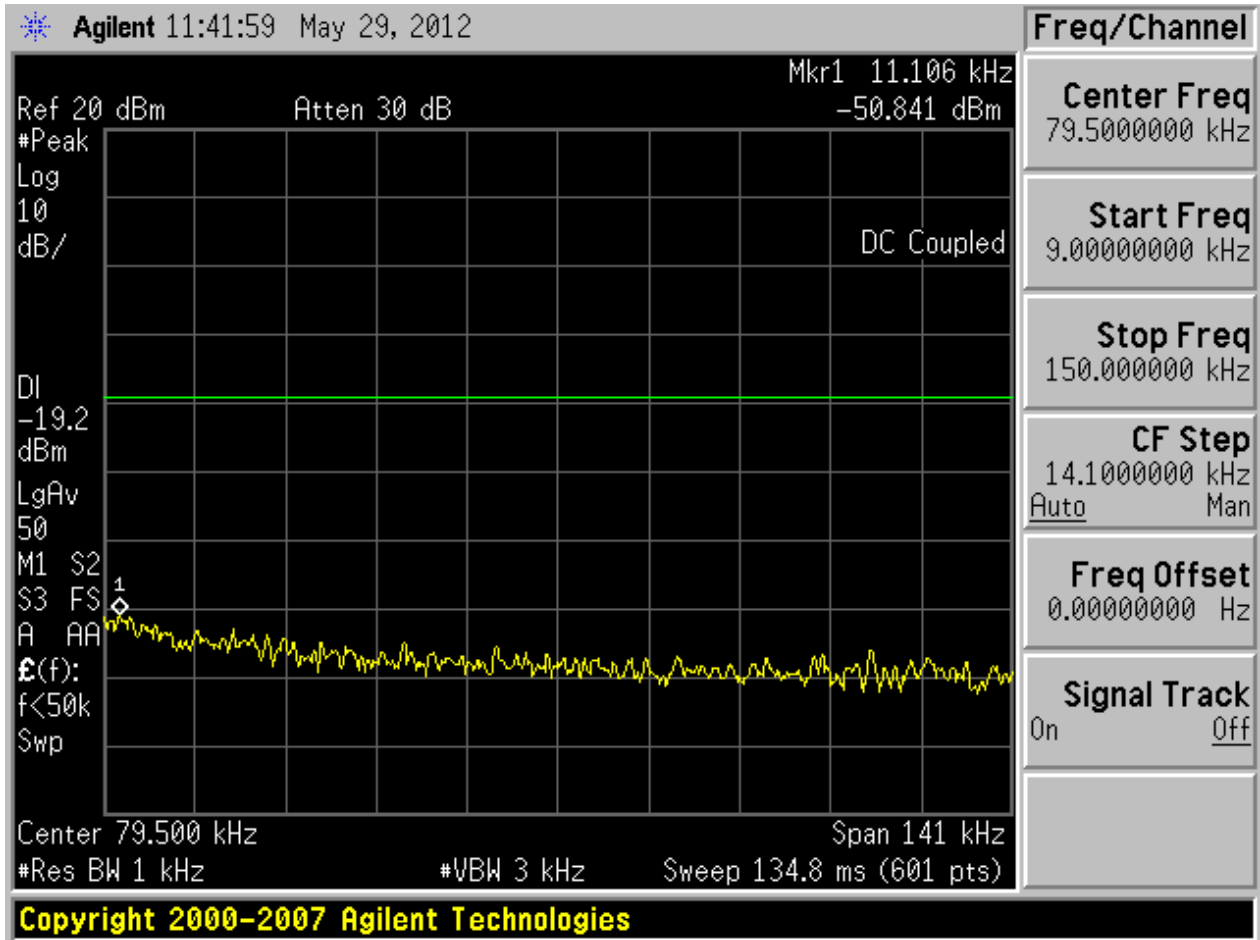


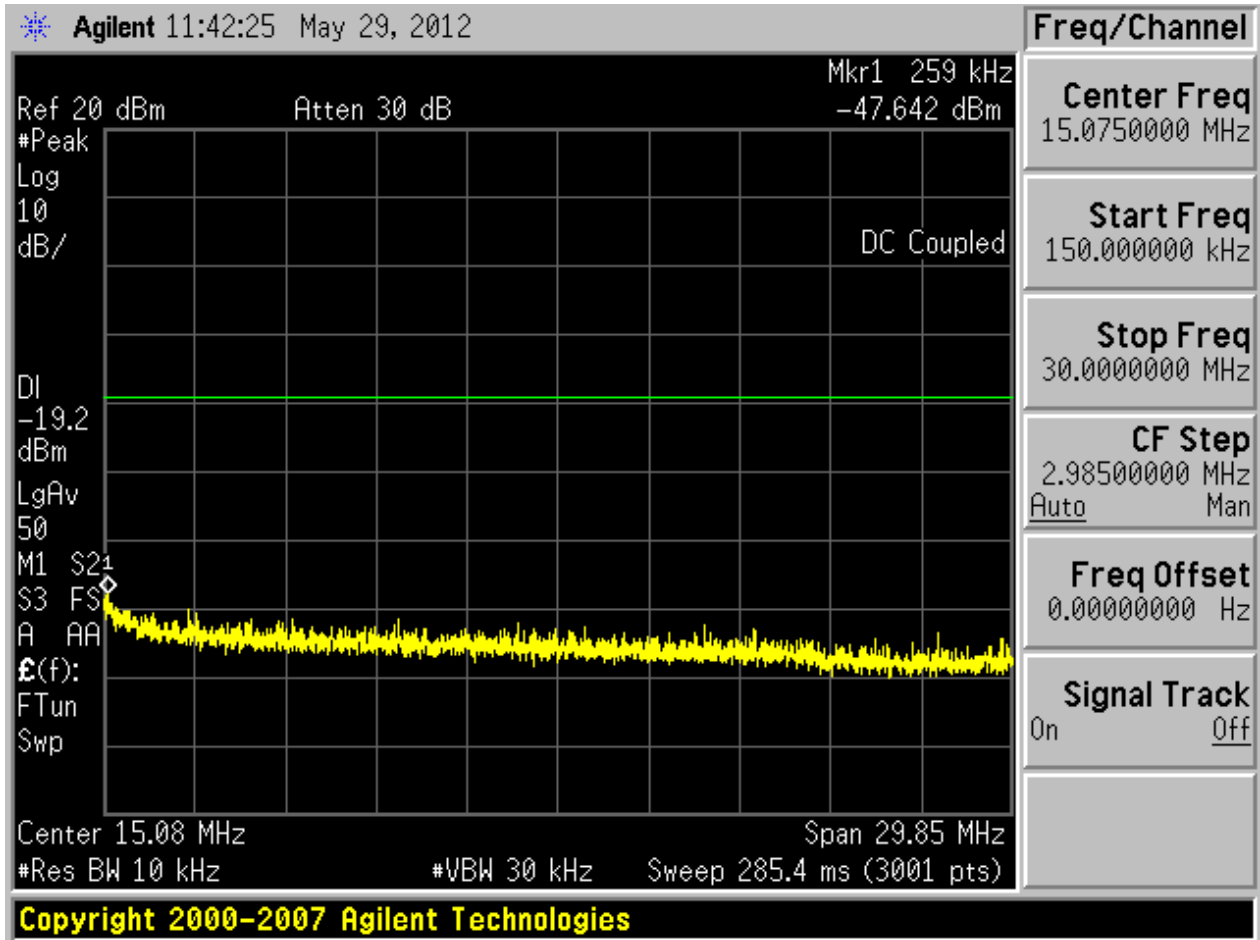
## 2.9 11G/6\_M@1

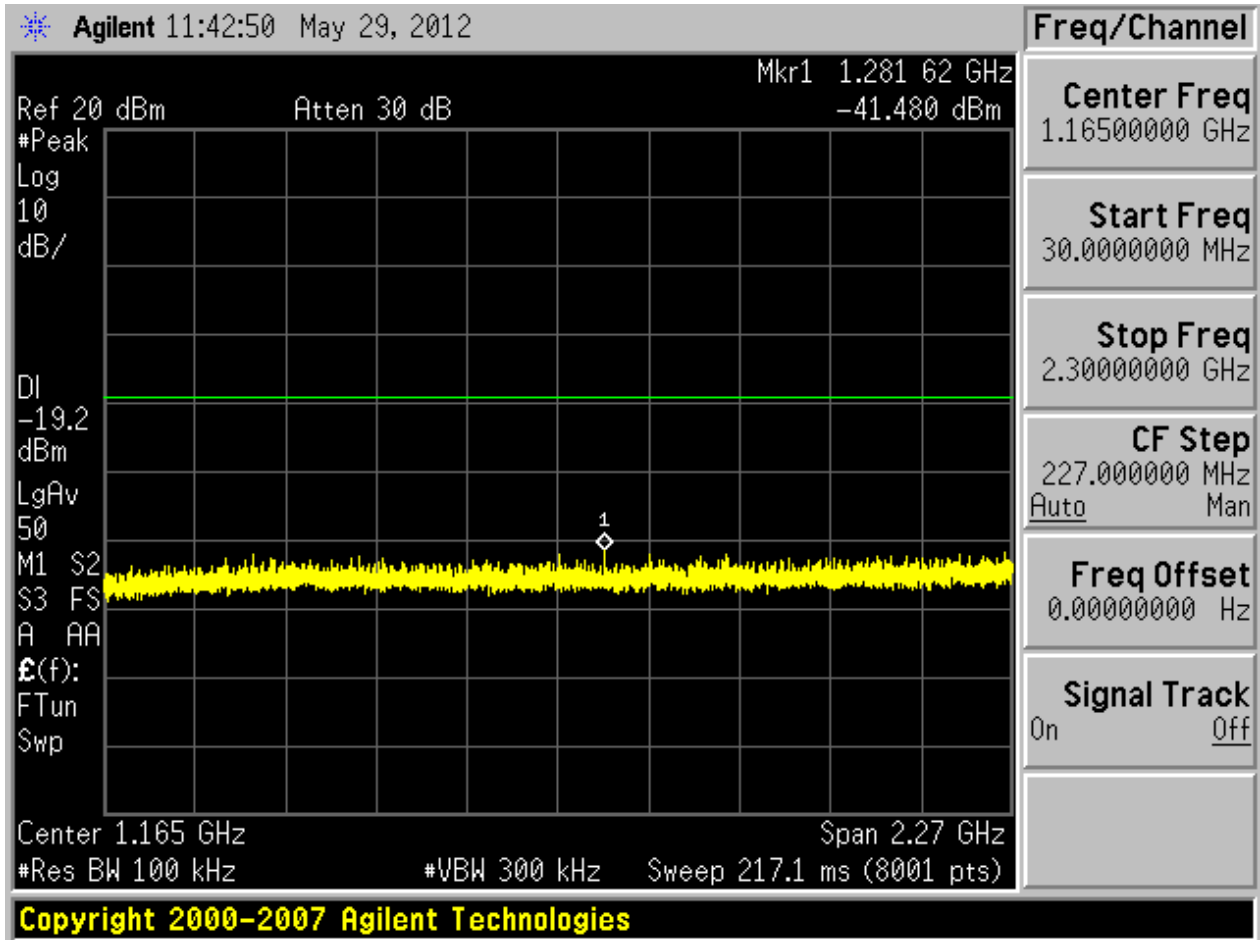
### 2.9.1 Pref

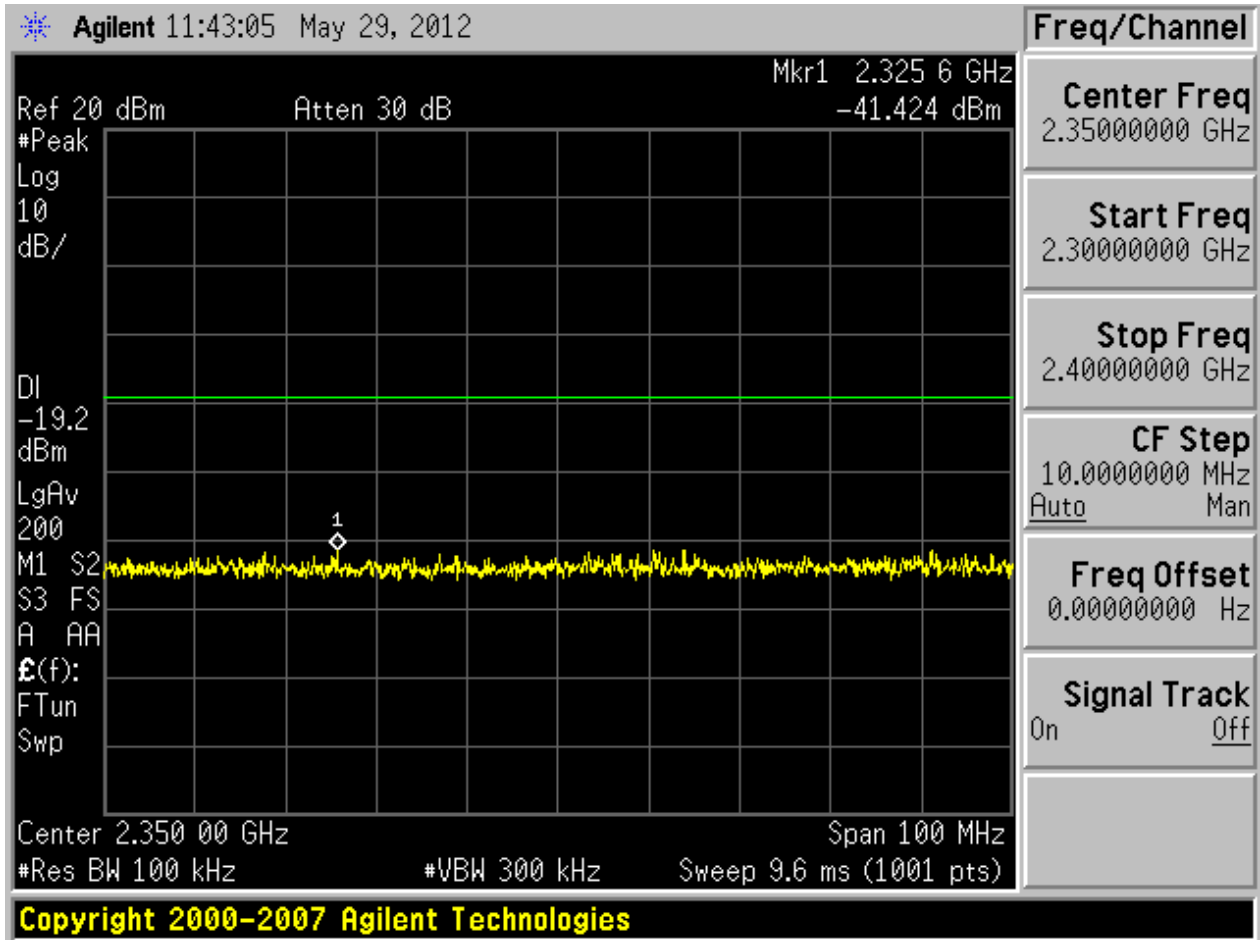


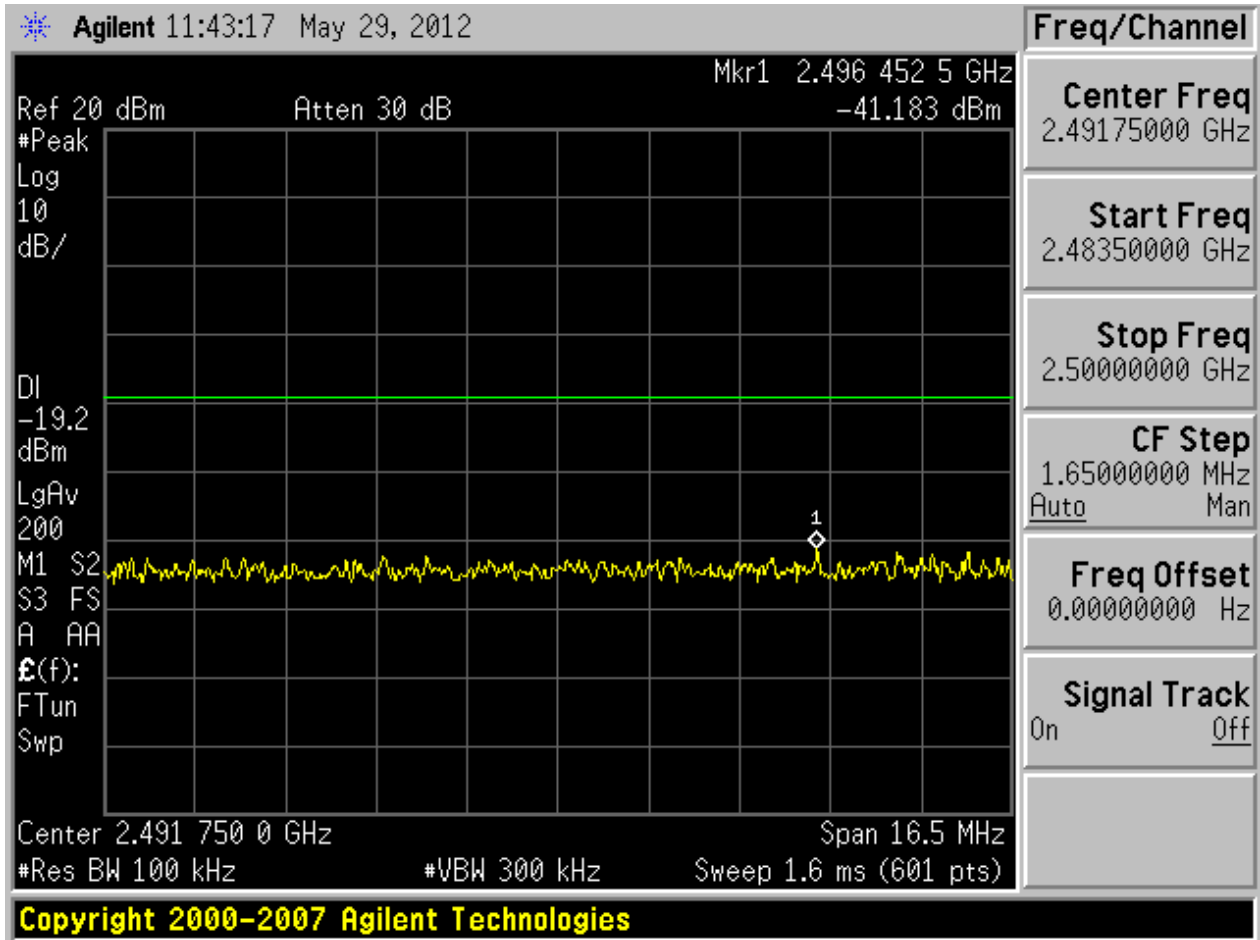
### 2.9.2 Puw



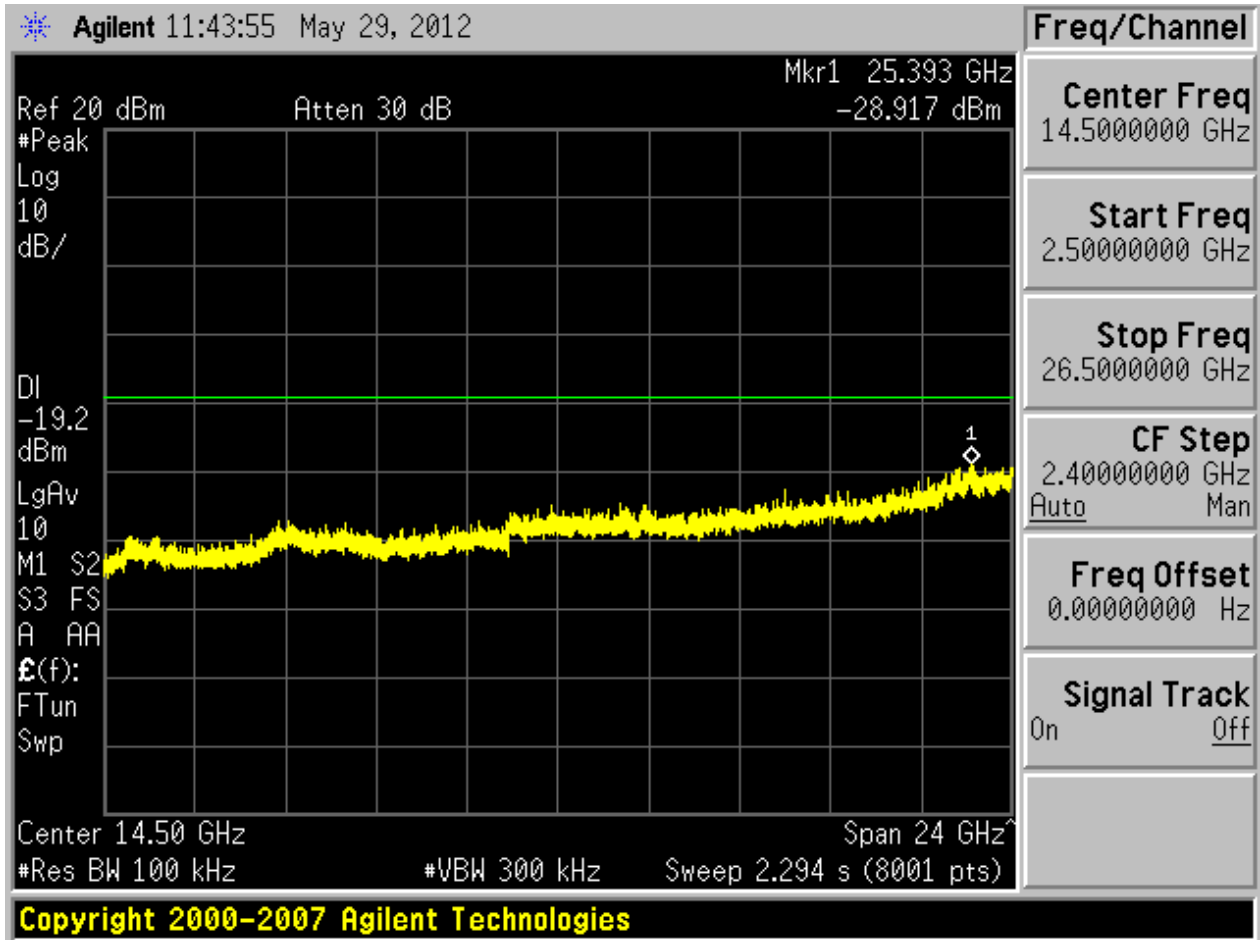






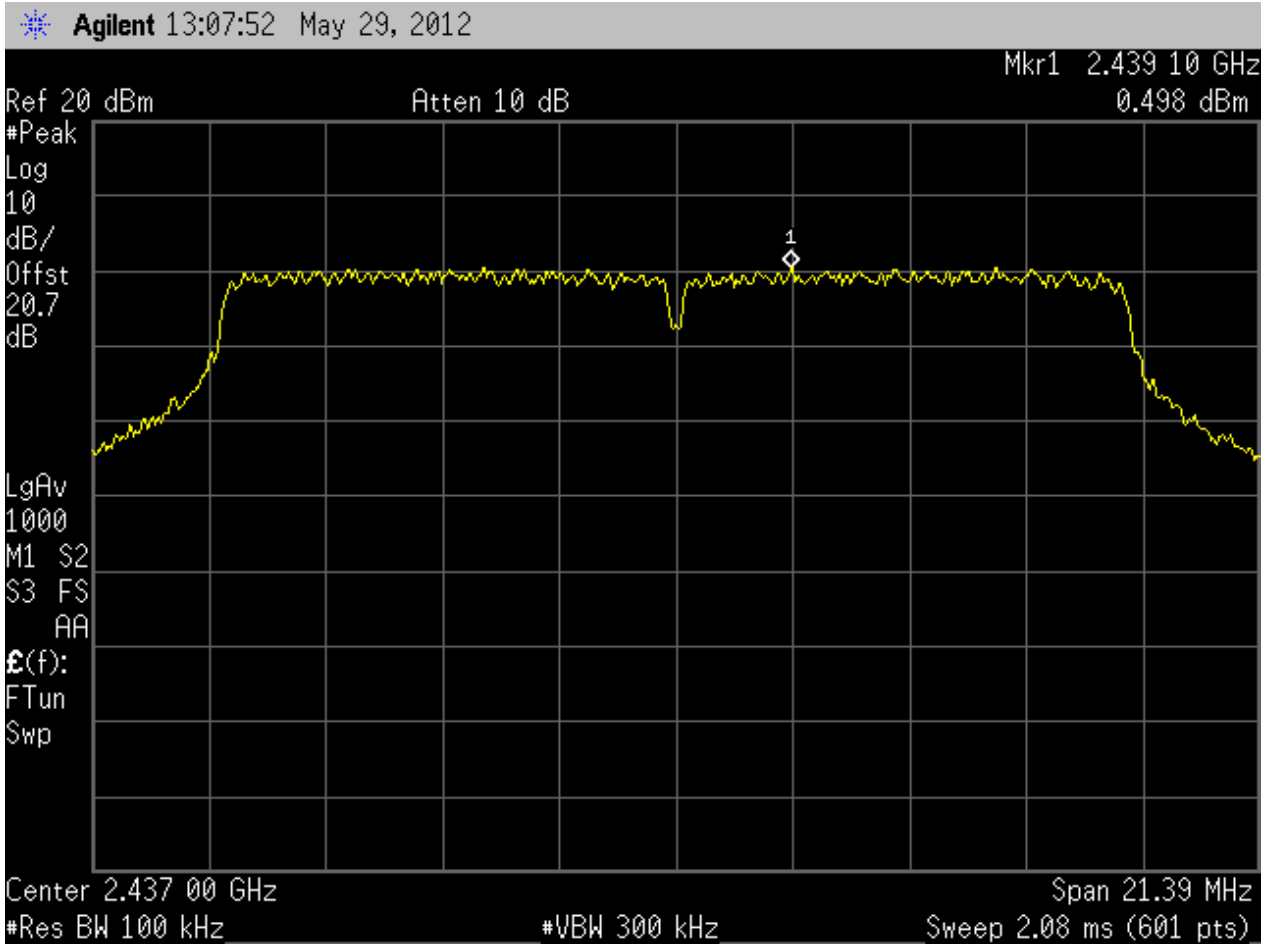




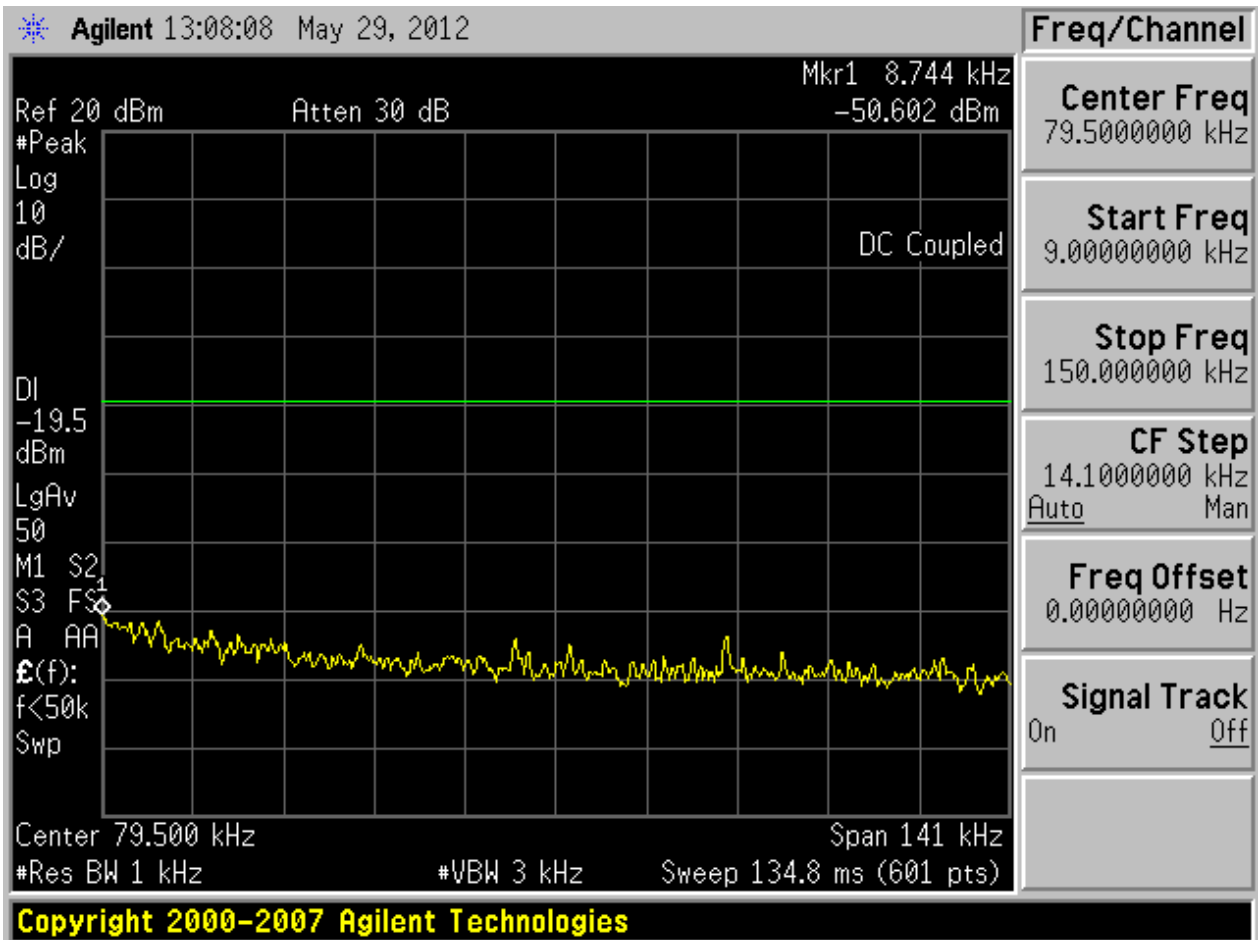


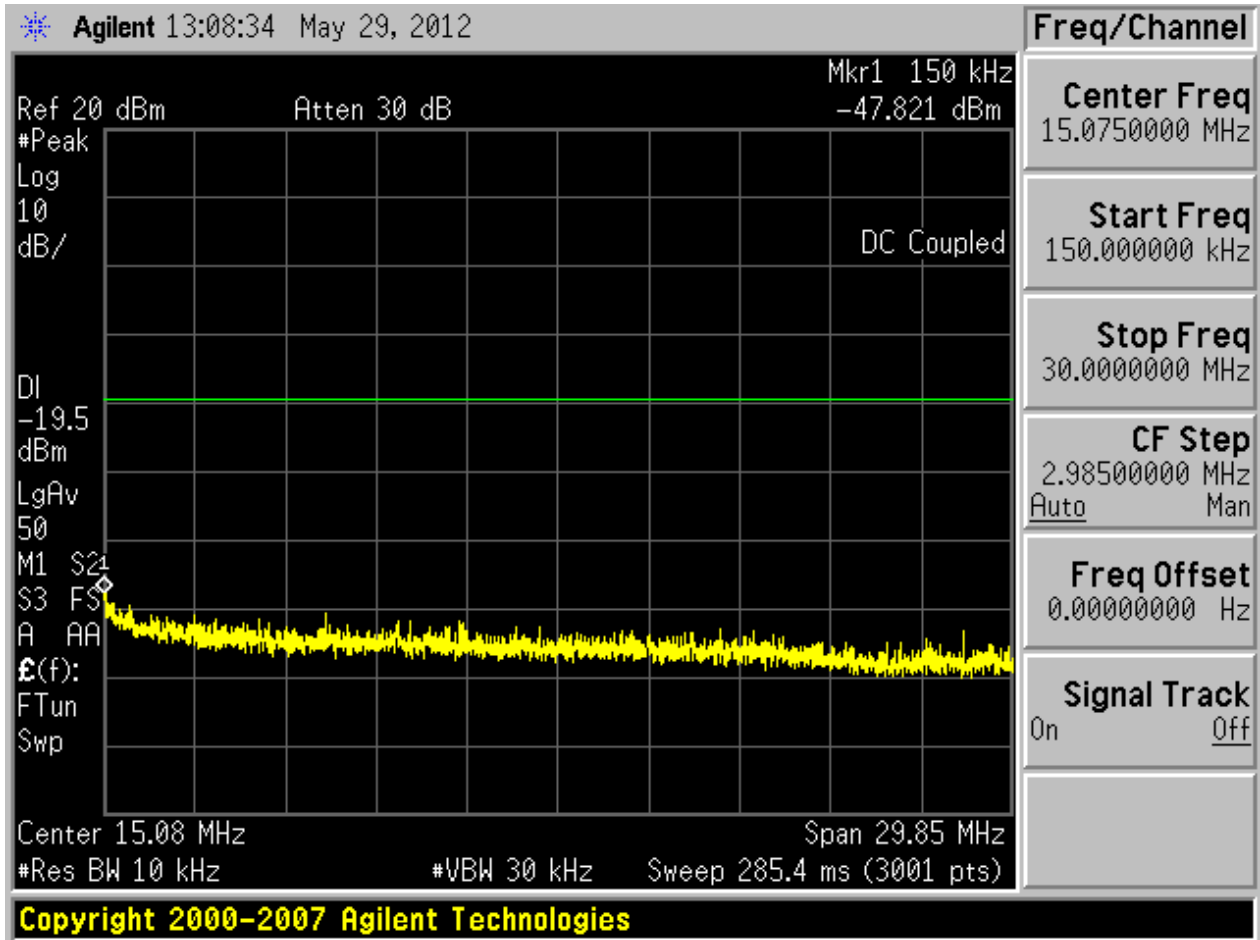
2.1011G/6\_M@2

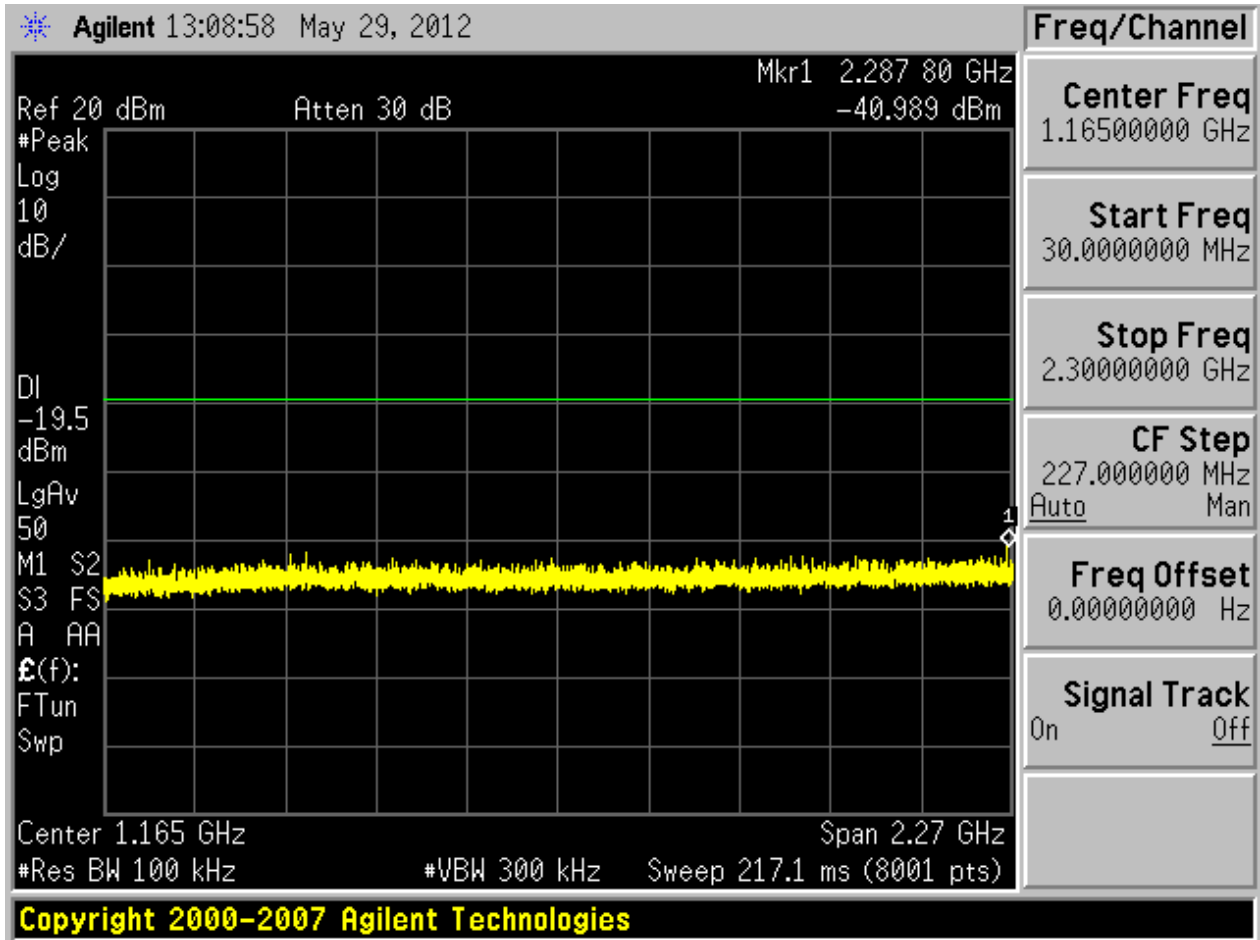
2.10.1 Pref

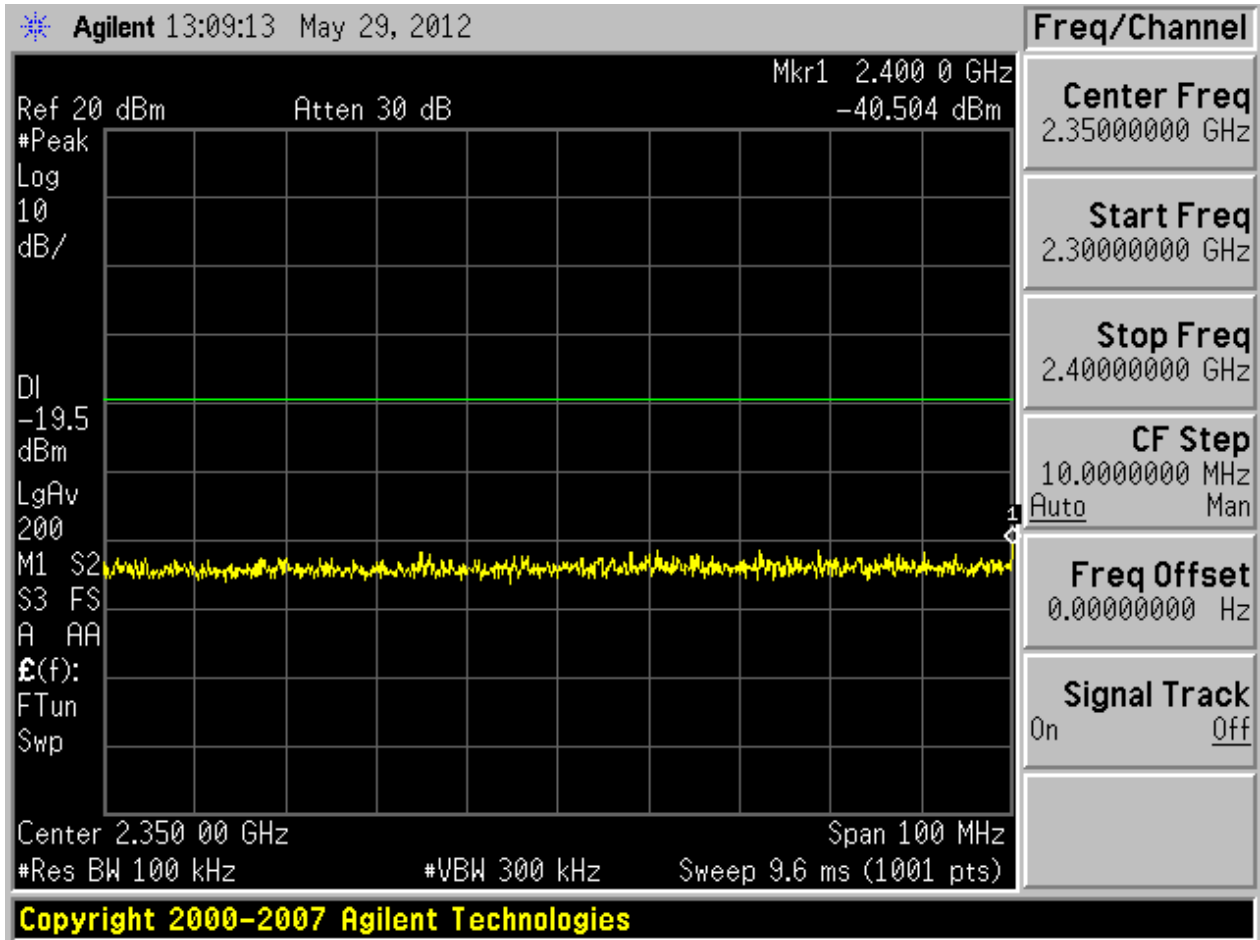


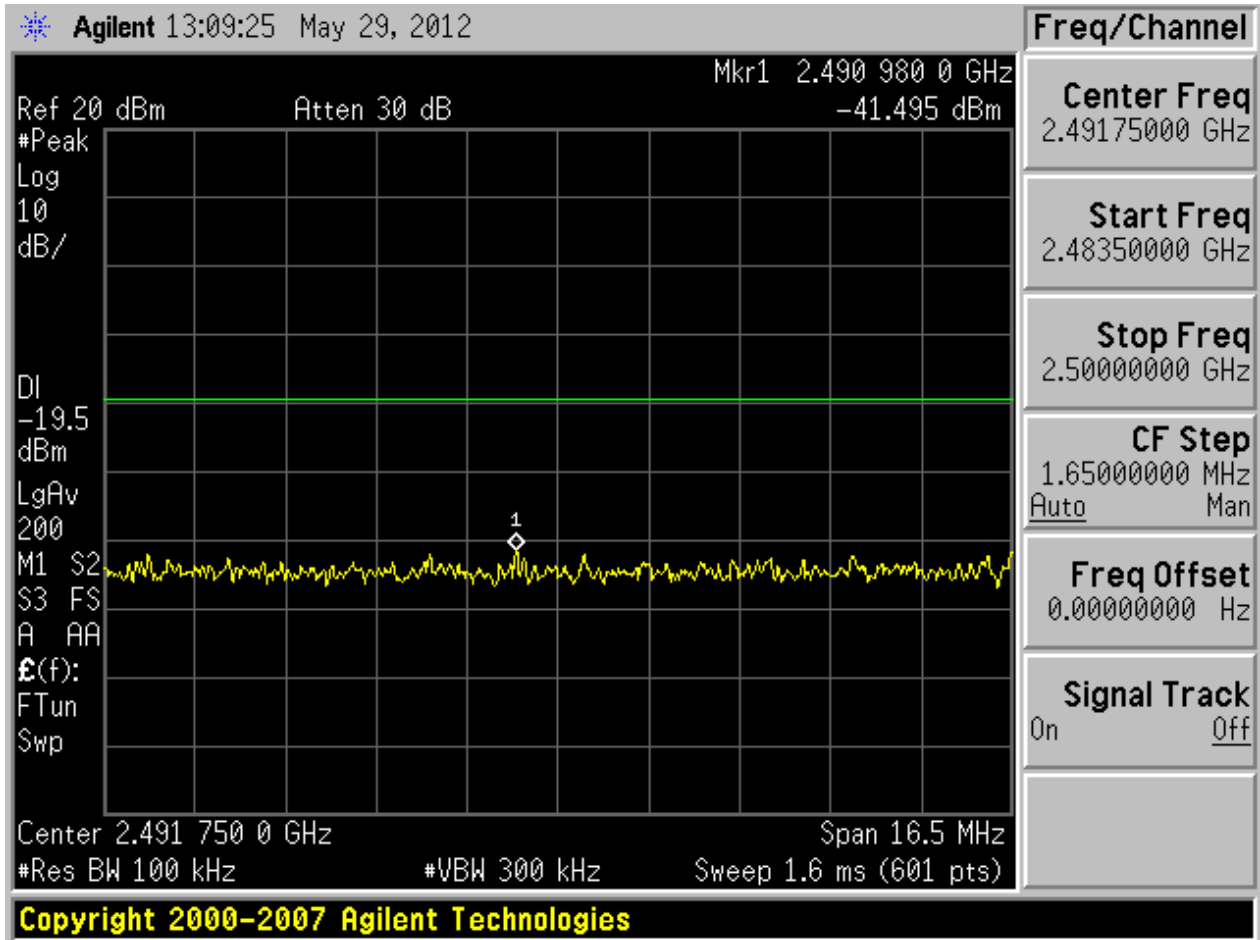
### 2.10.2 Puw

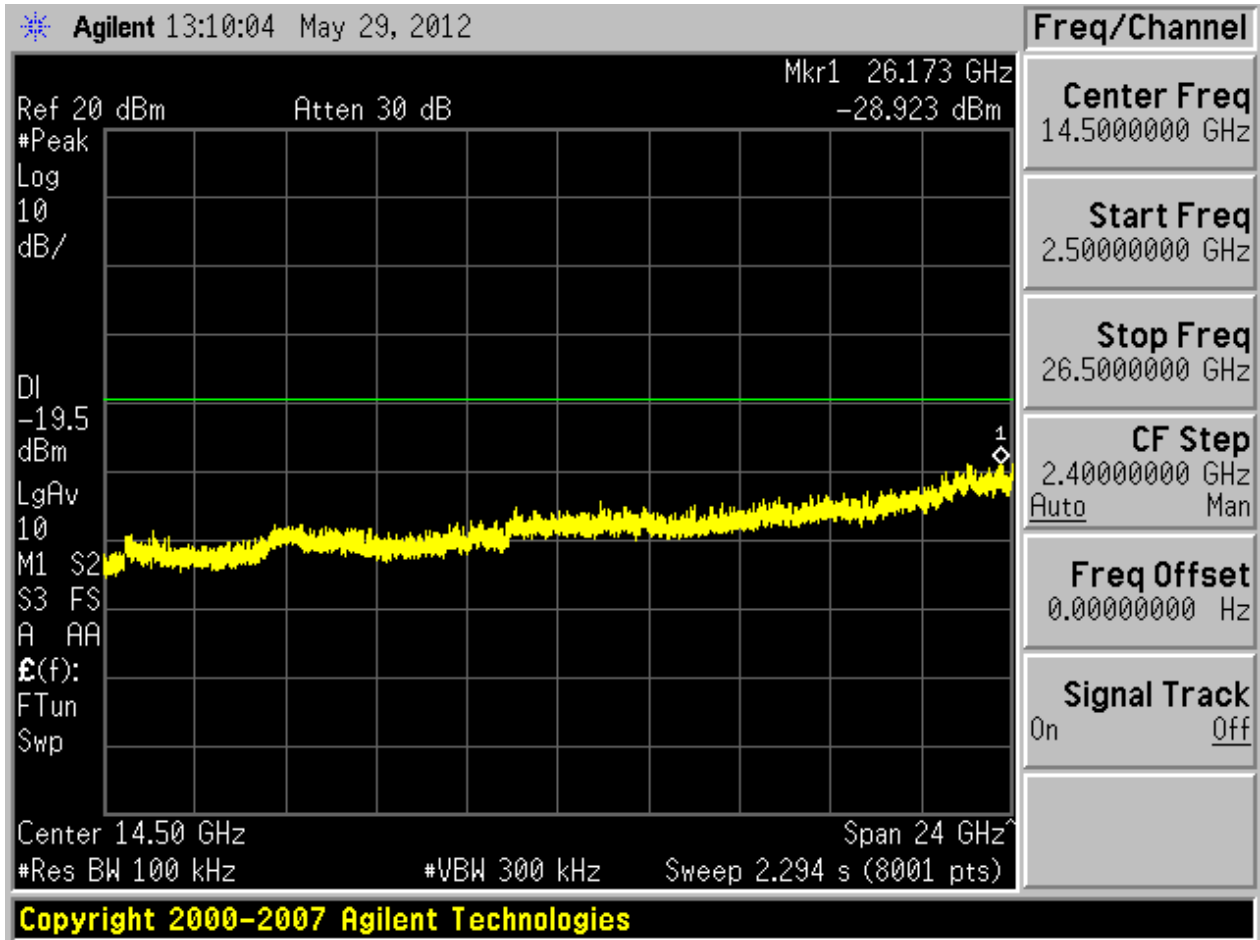








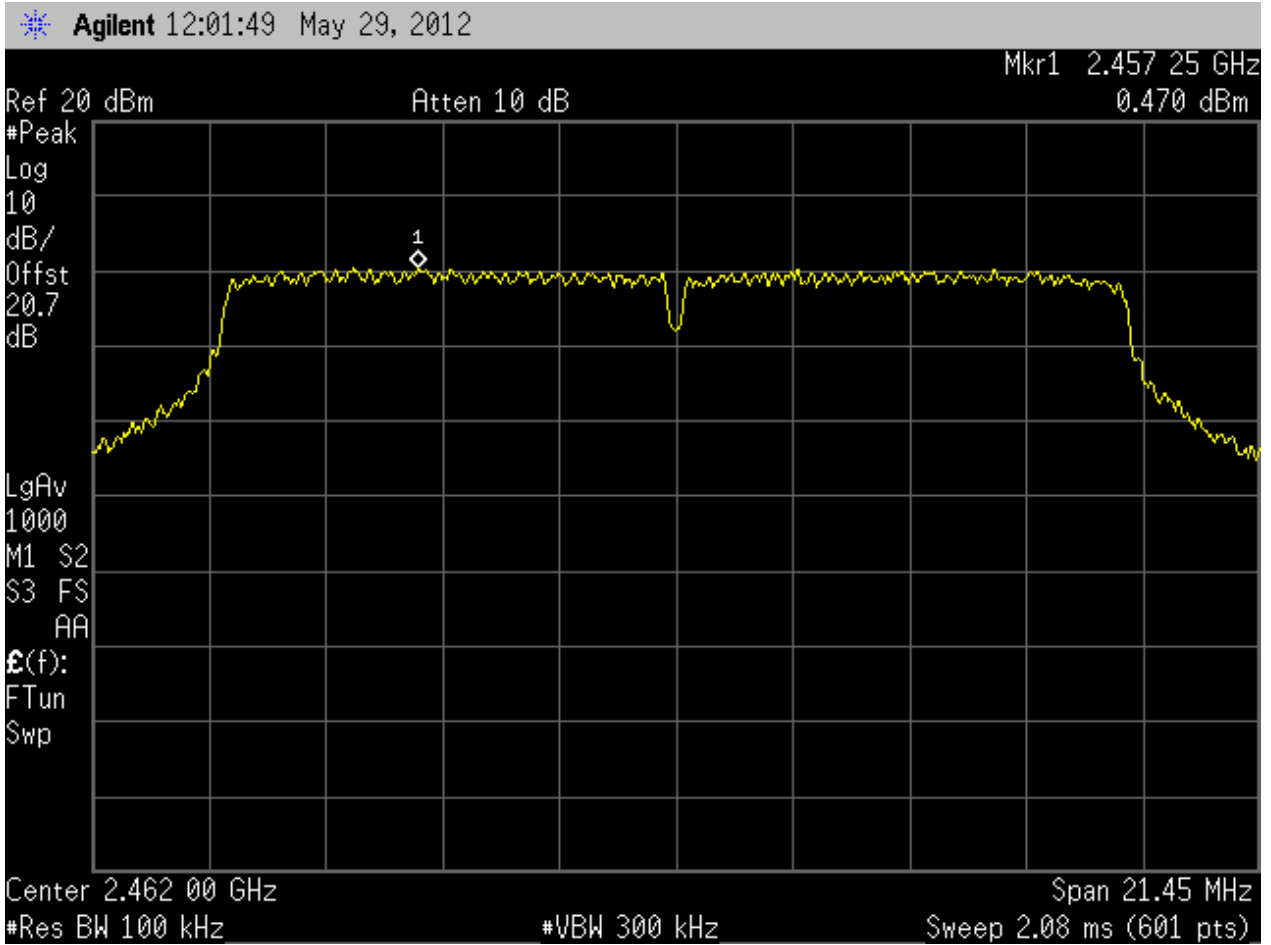




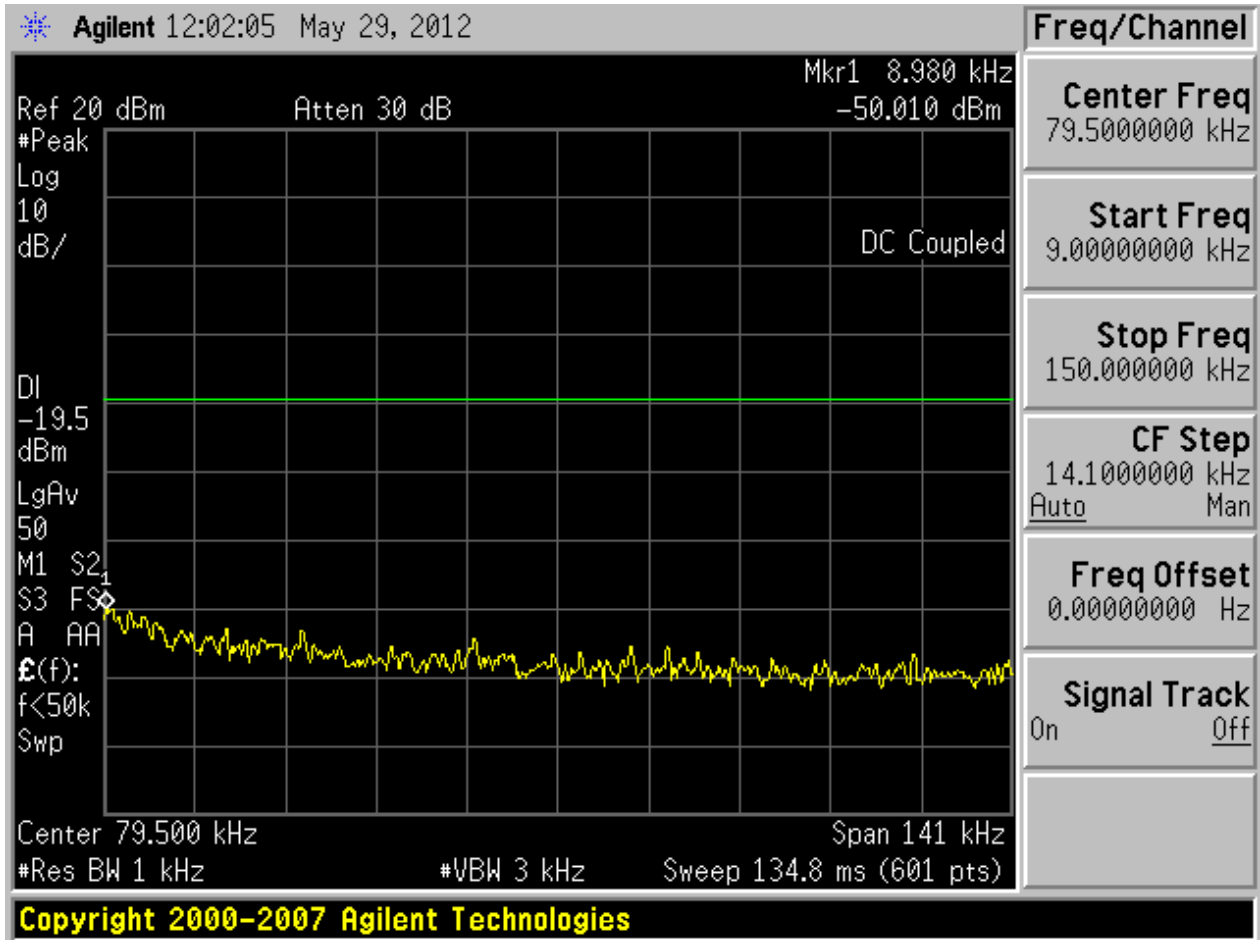
2.1111G/6\_T@1

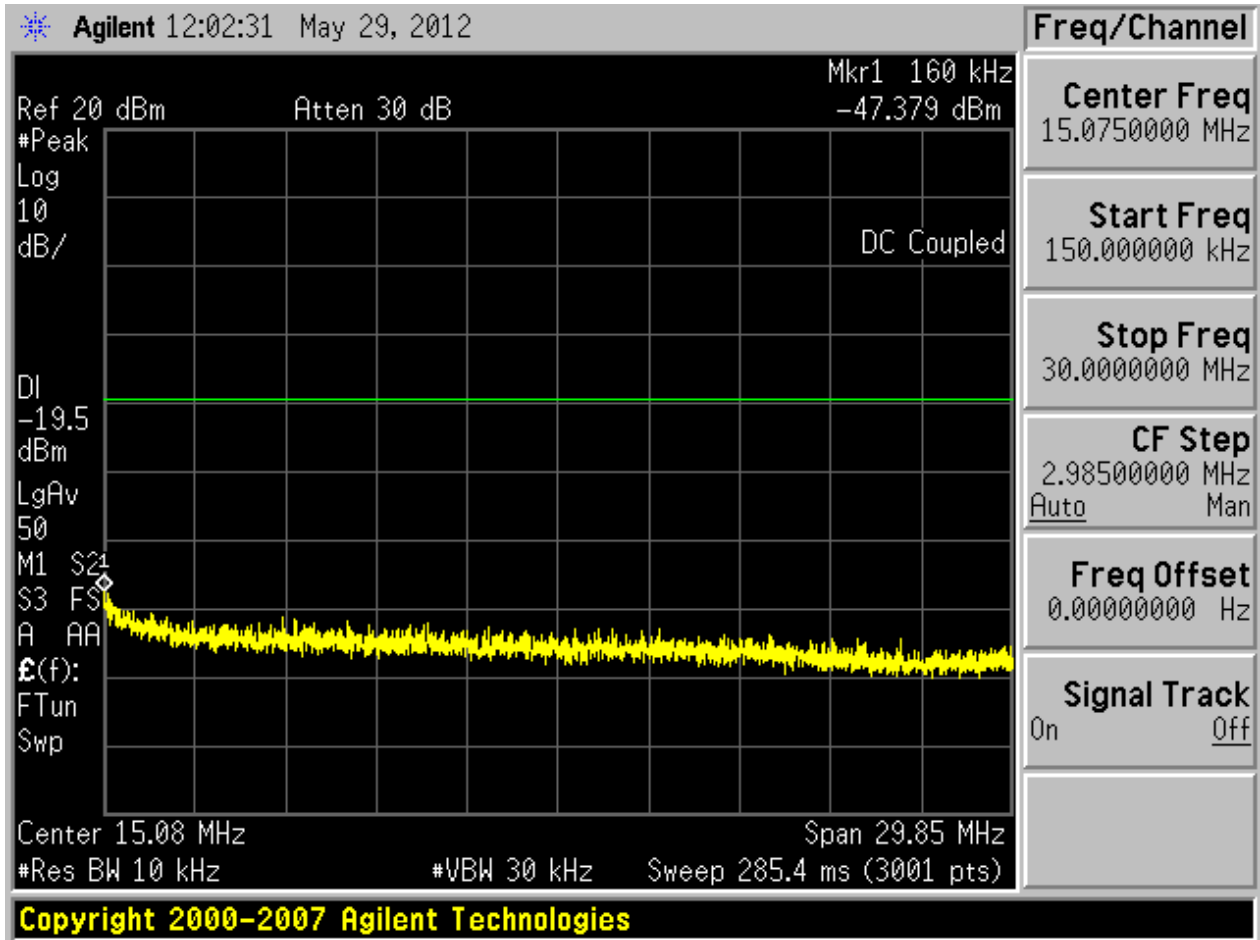
2.11.1 Pref

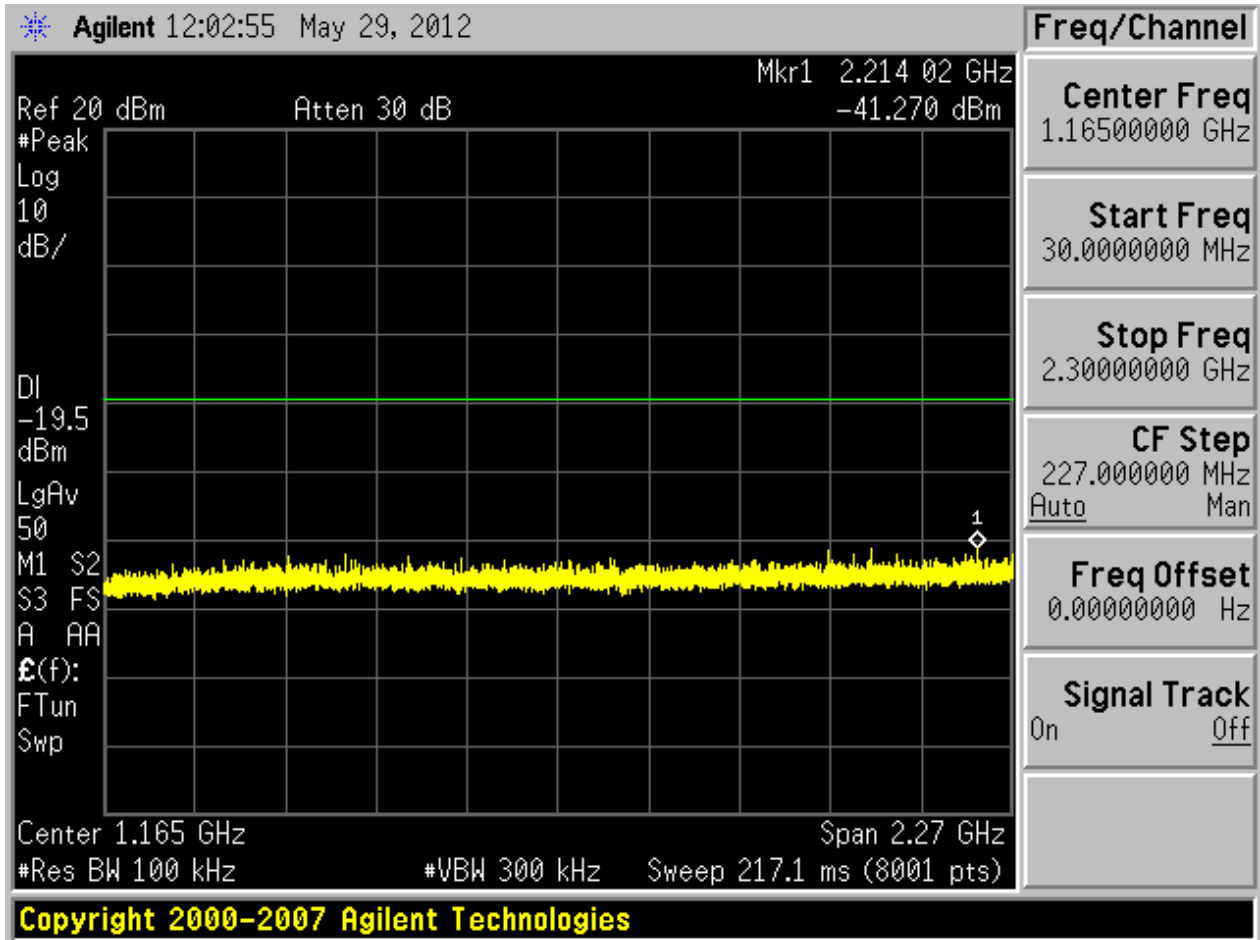


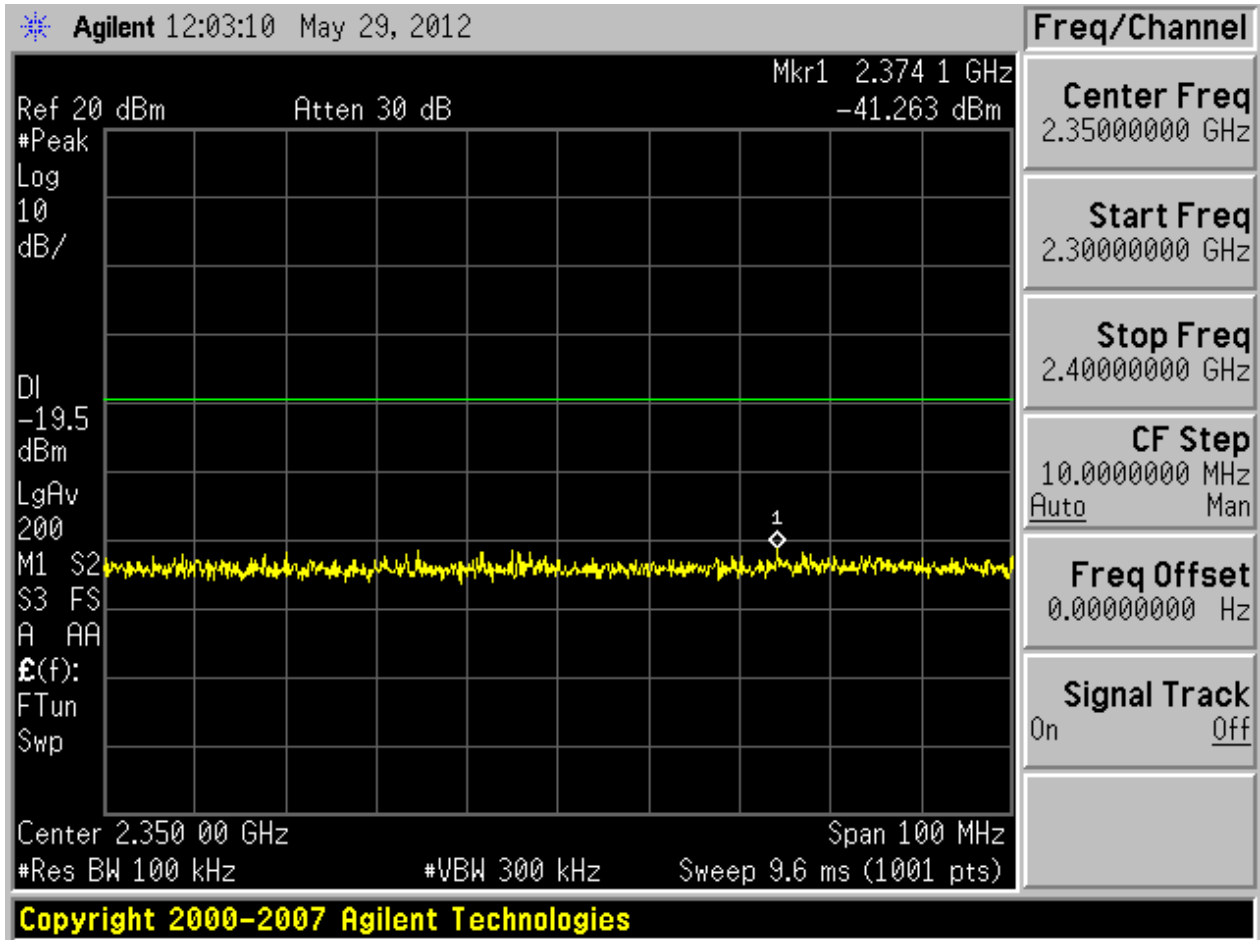


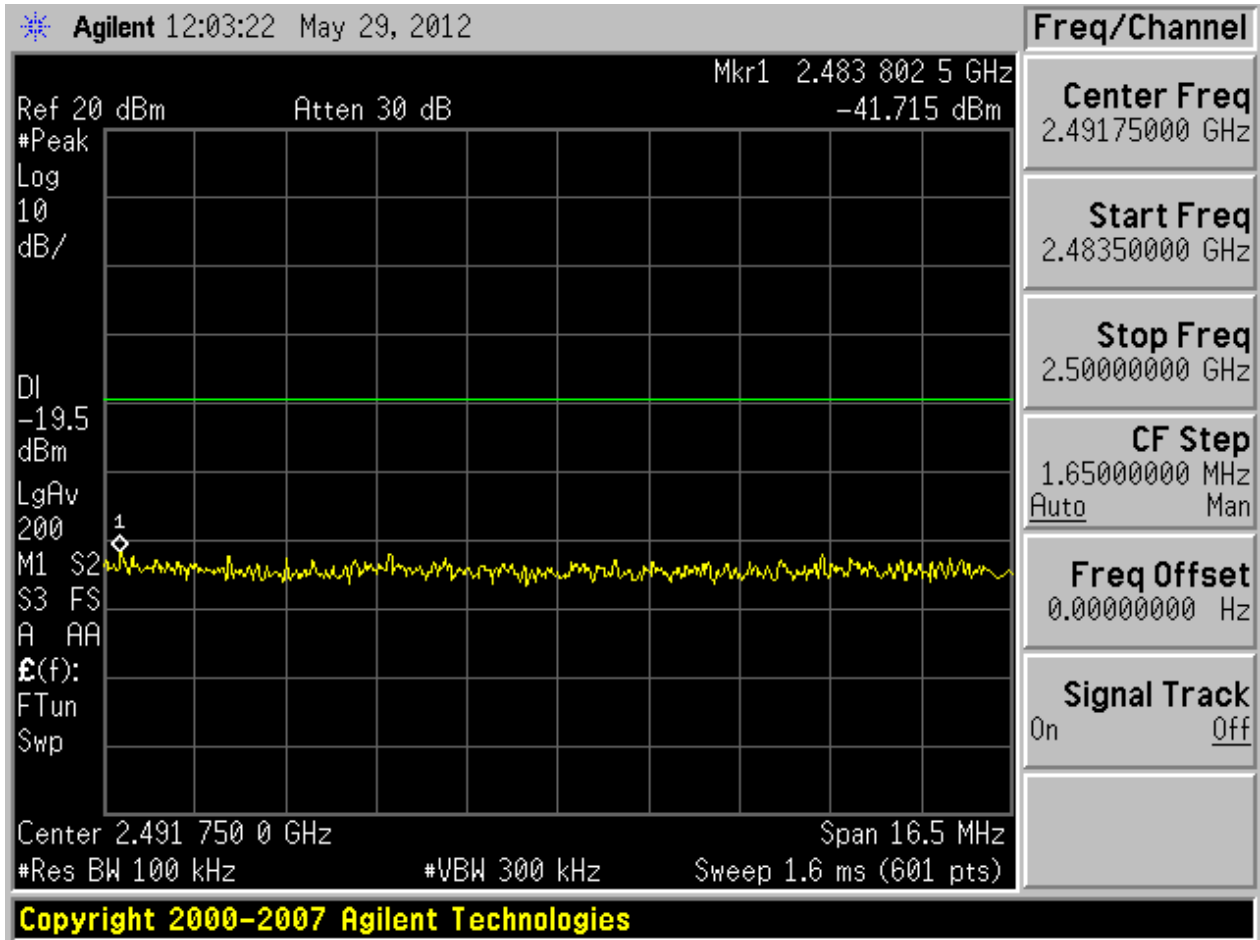
### 2.11.2 Puw

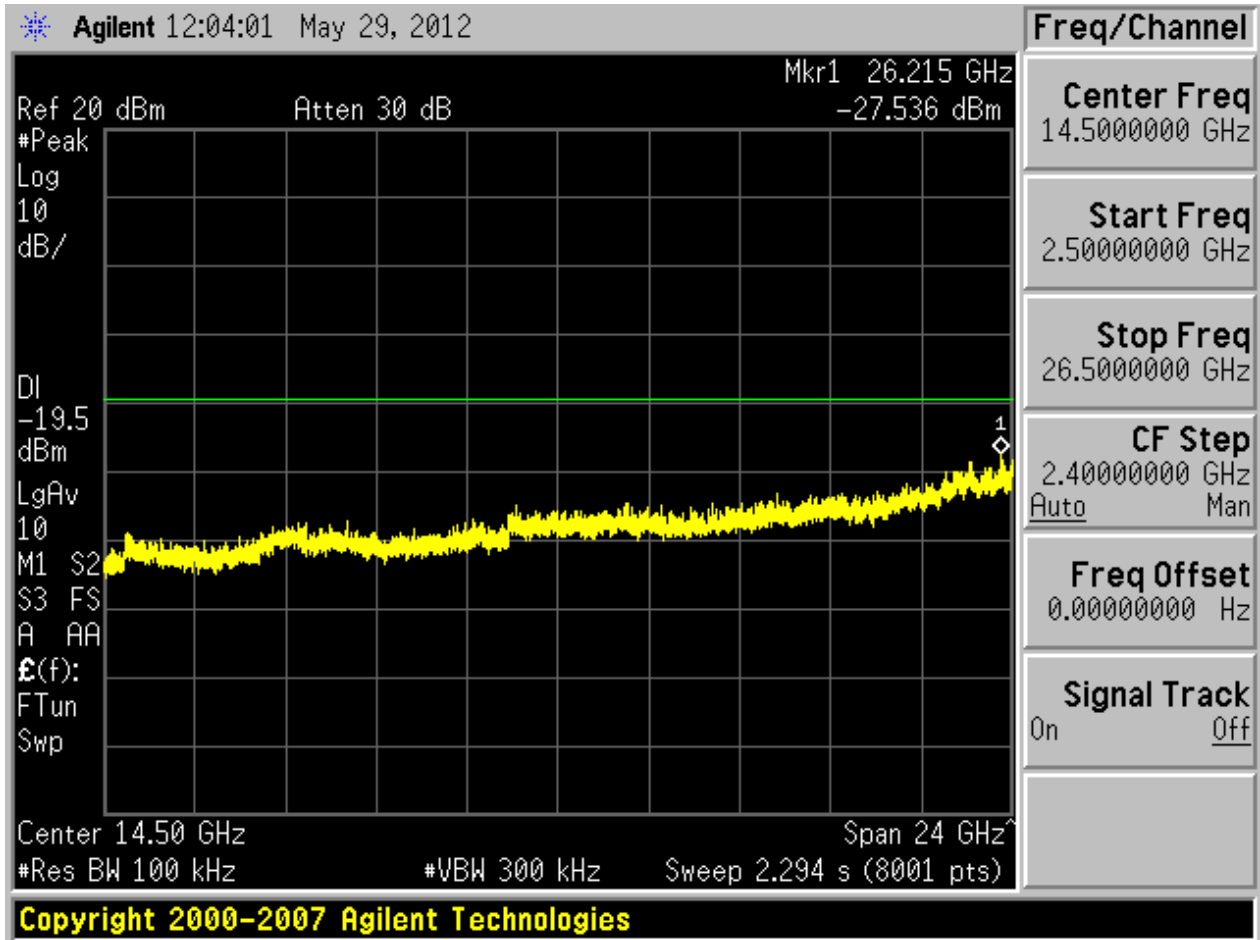






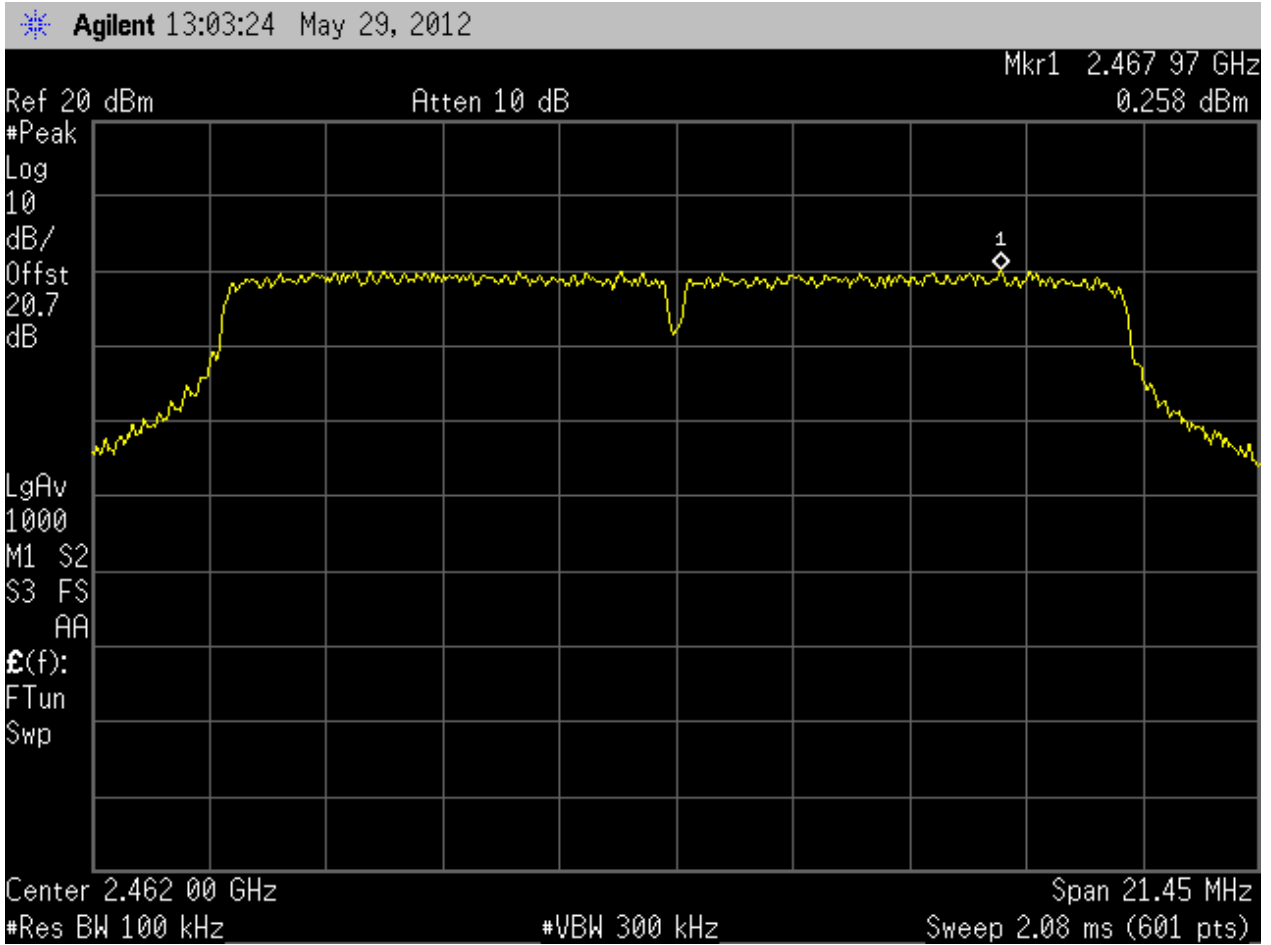






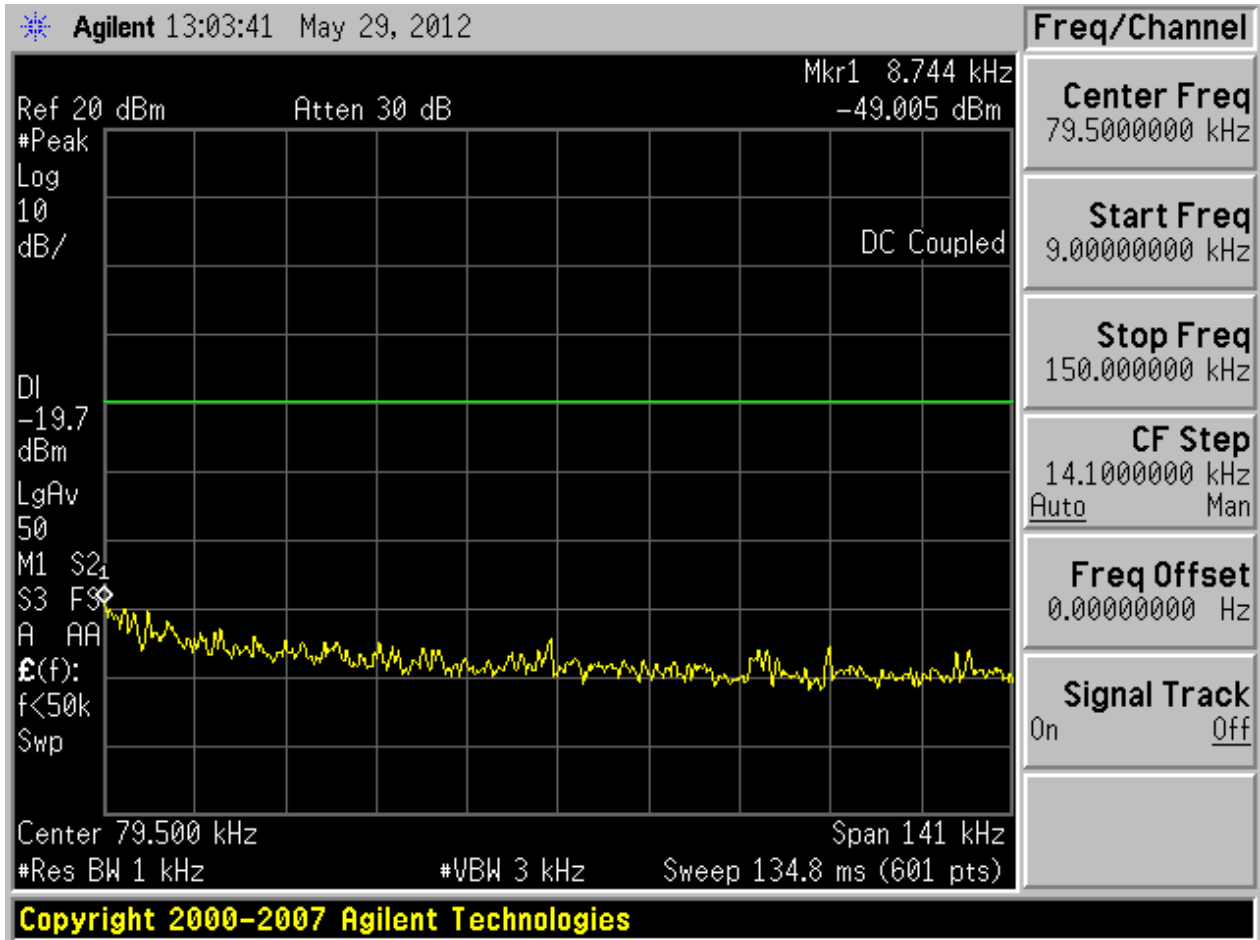
2.1211G/6\_T@2

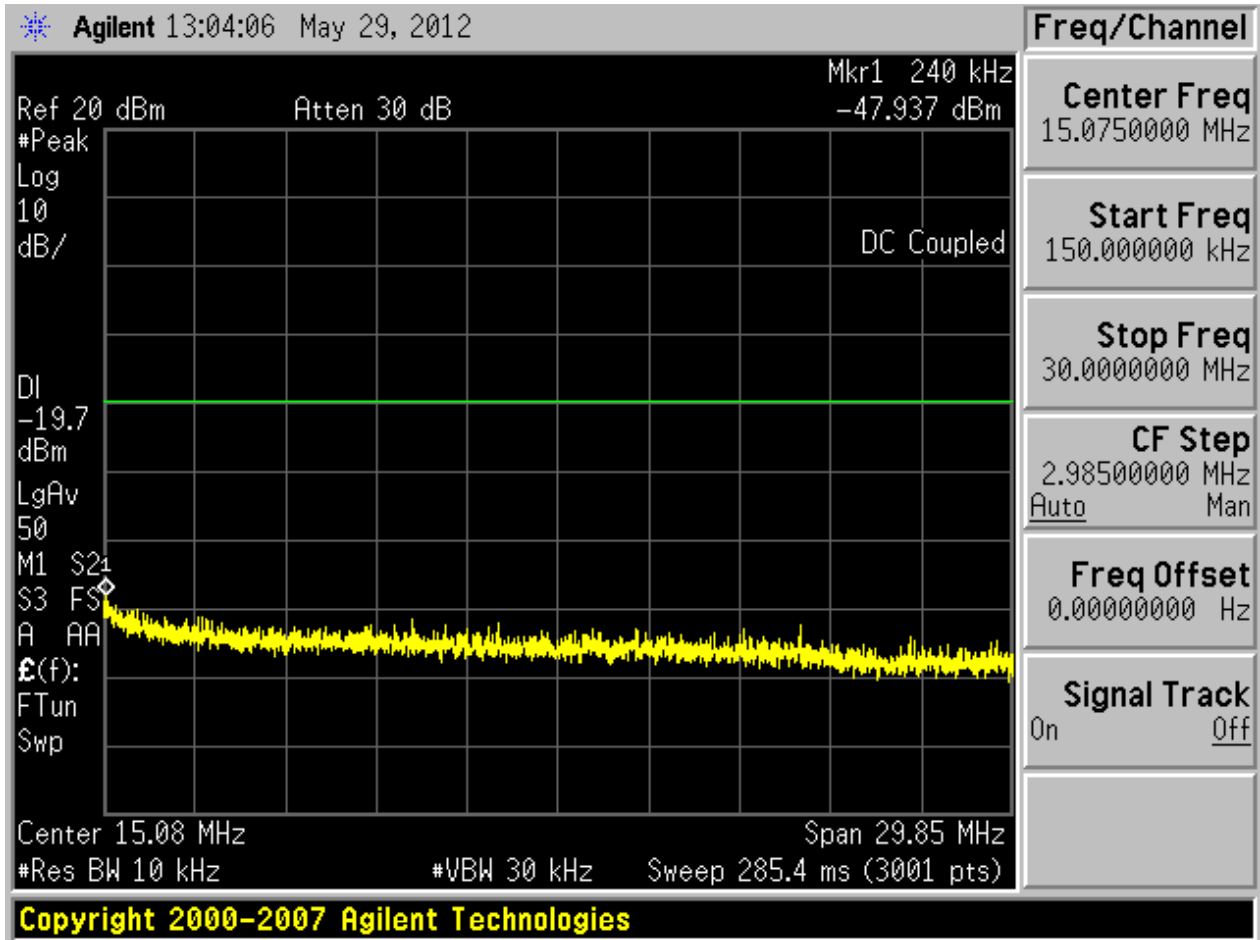
2.12.1 Pref

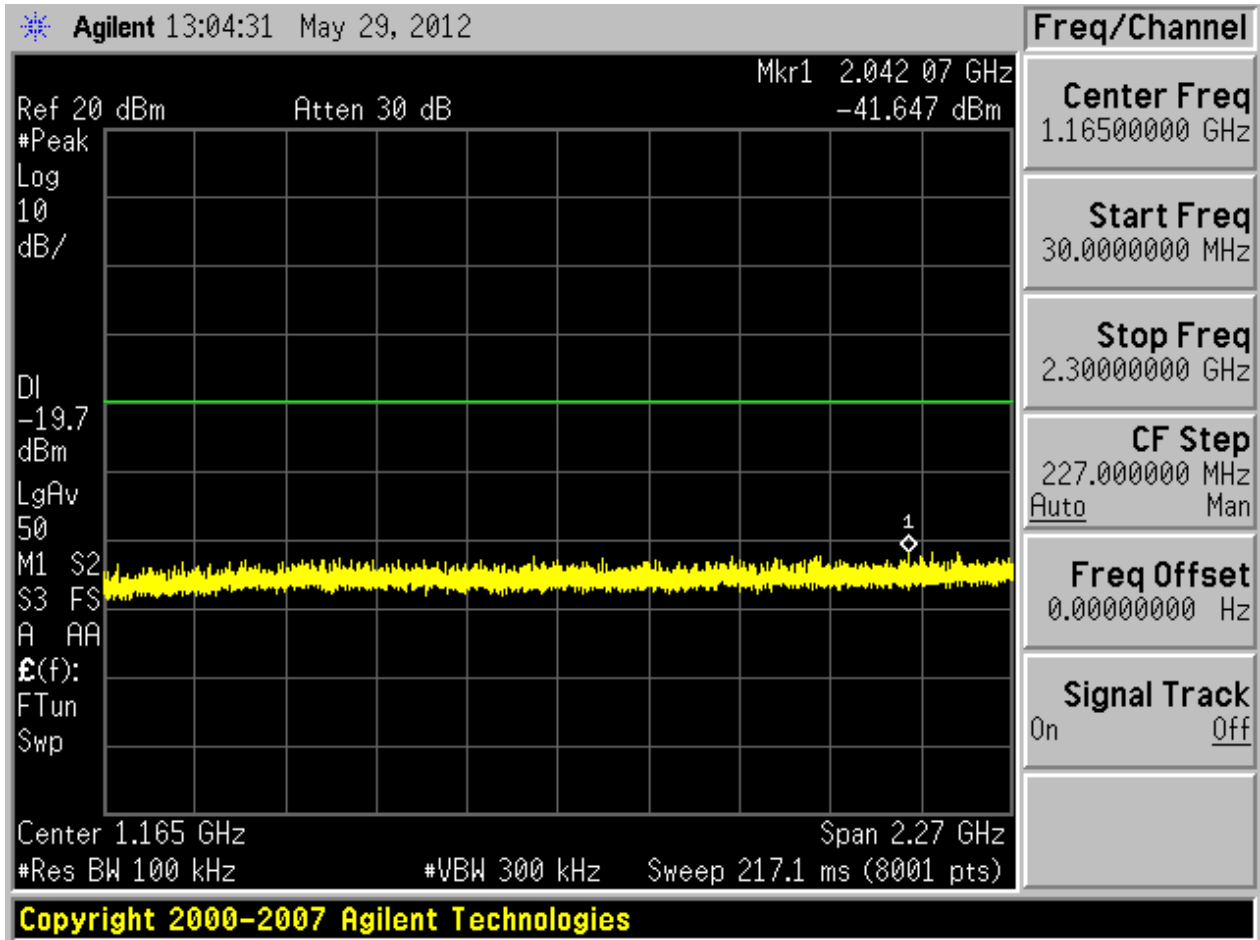


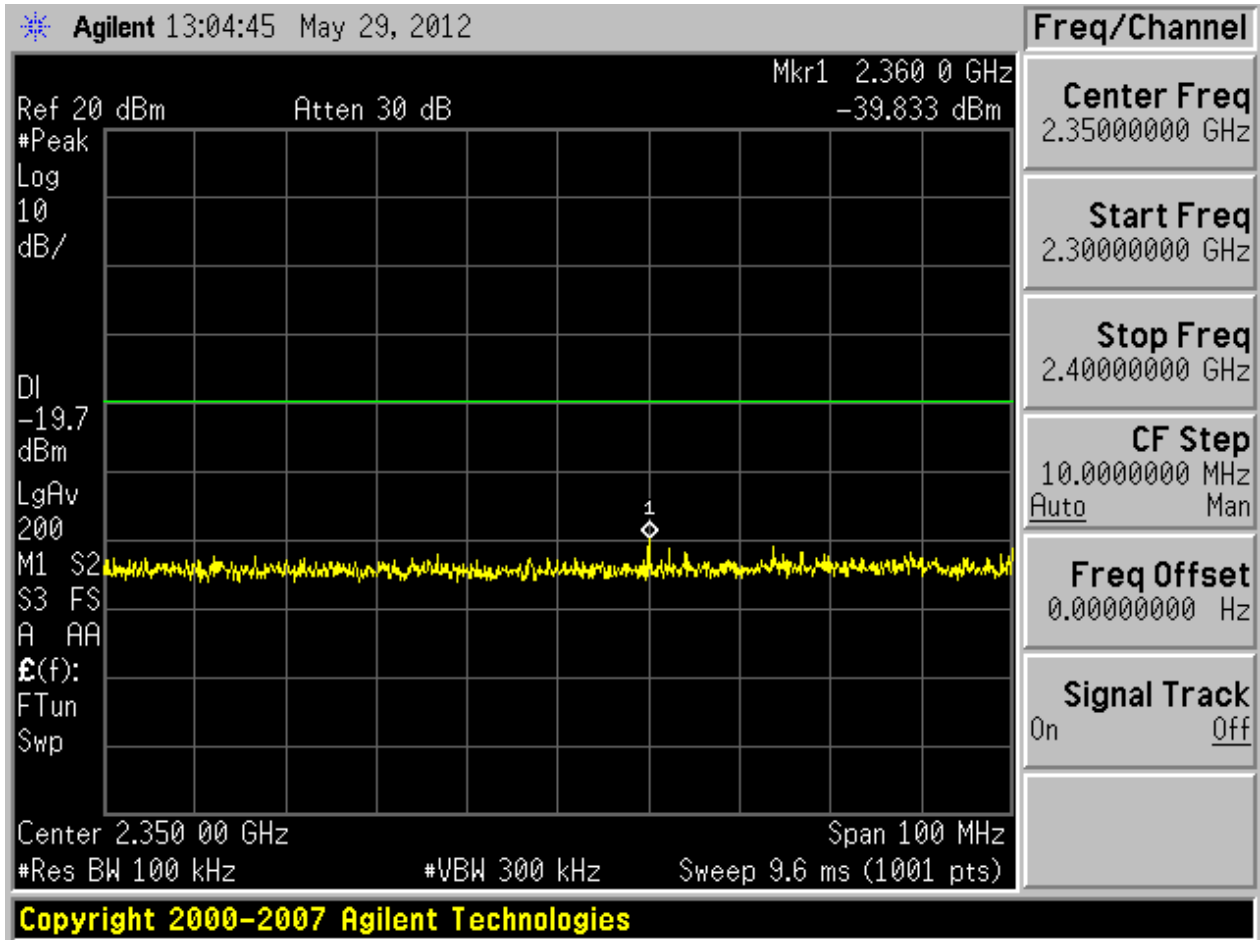
### 2.12.2 Puw

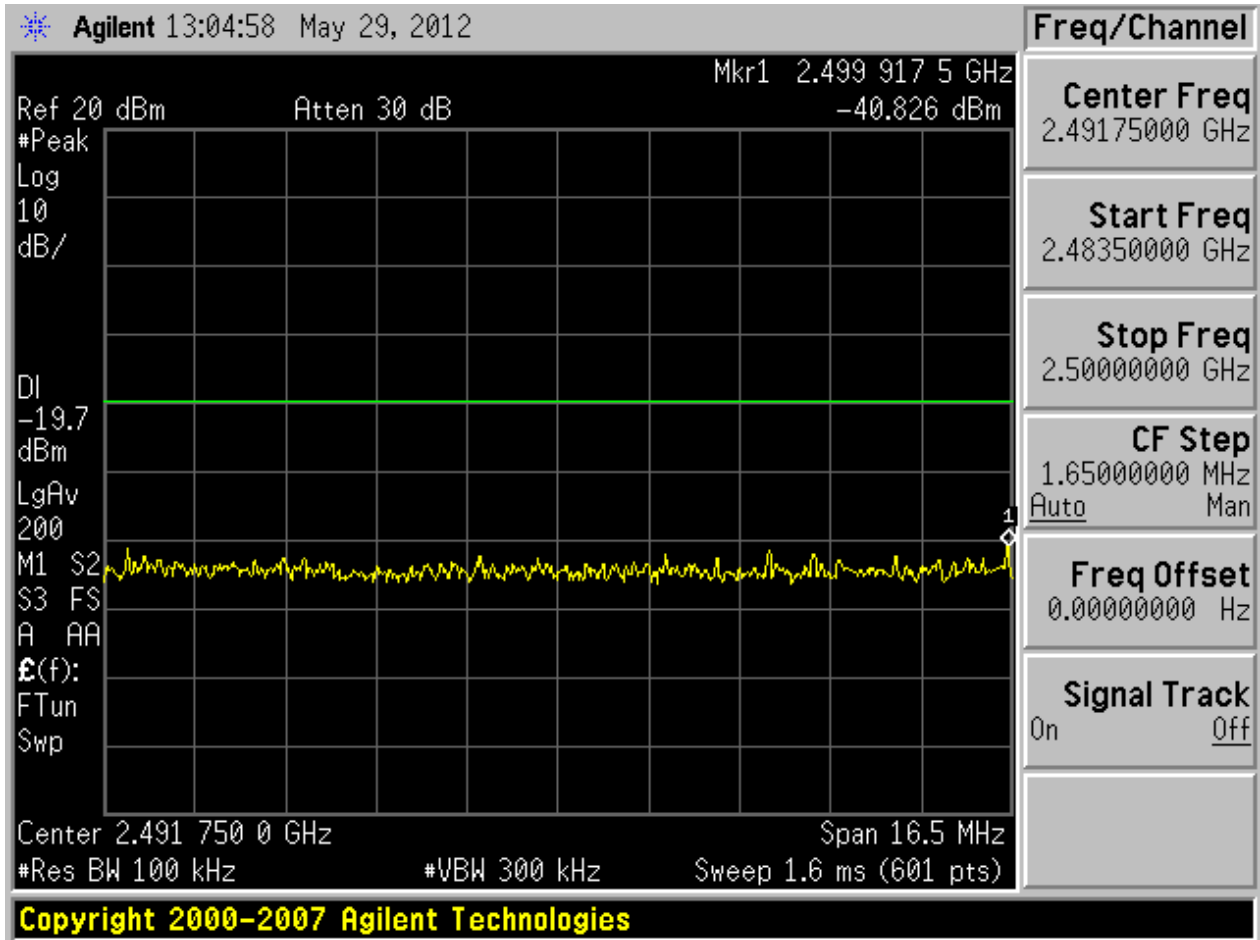


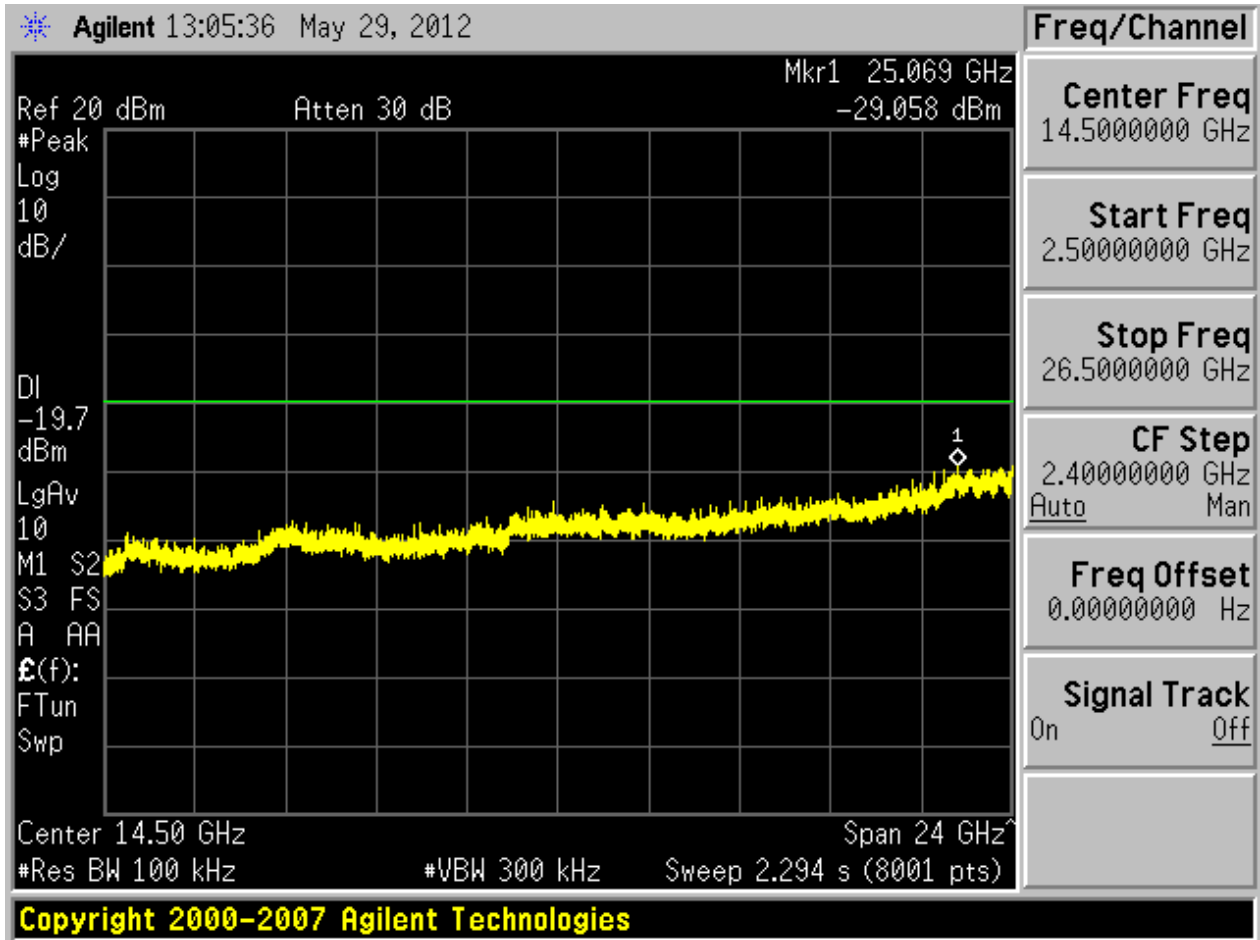






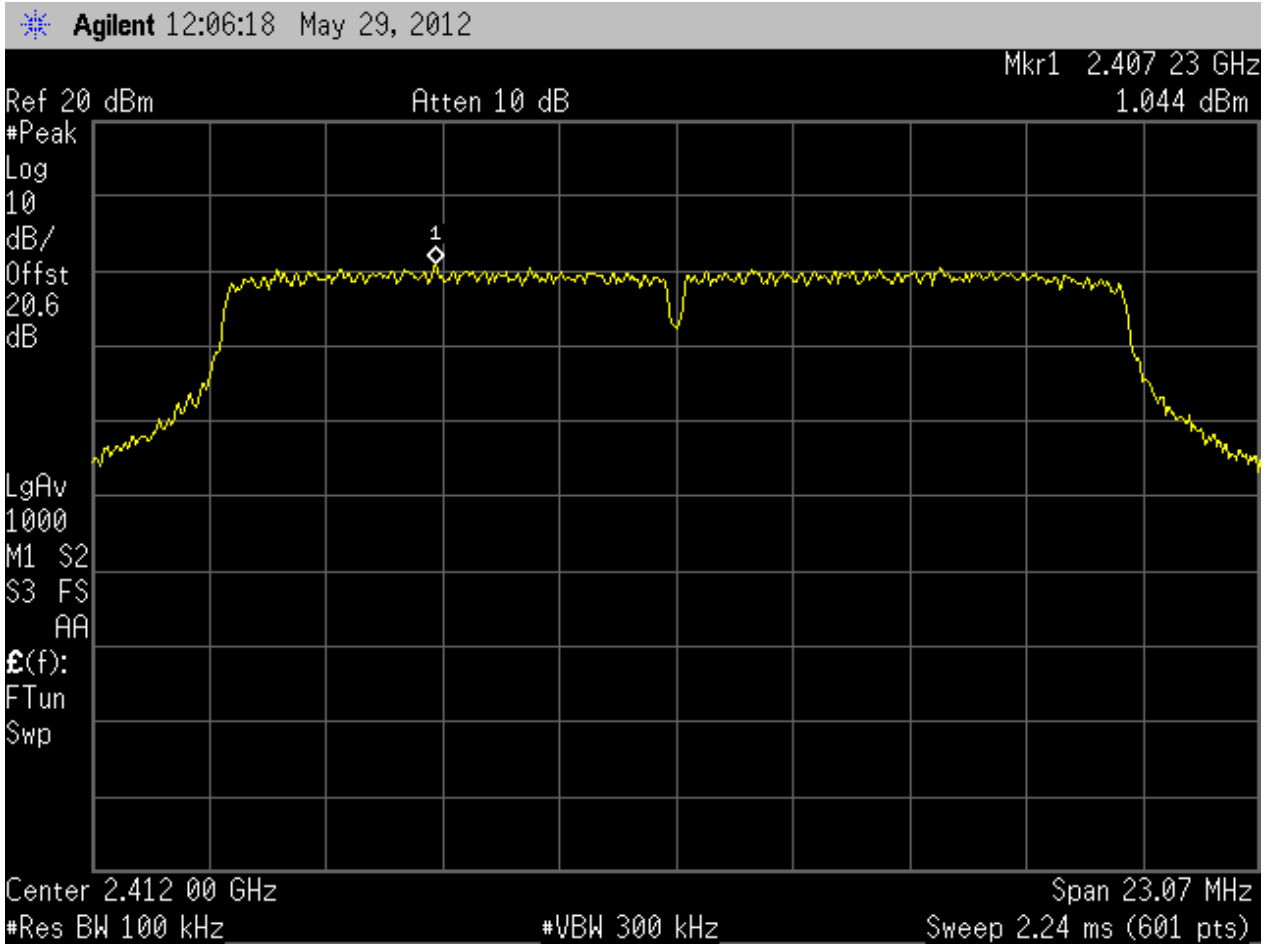




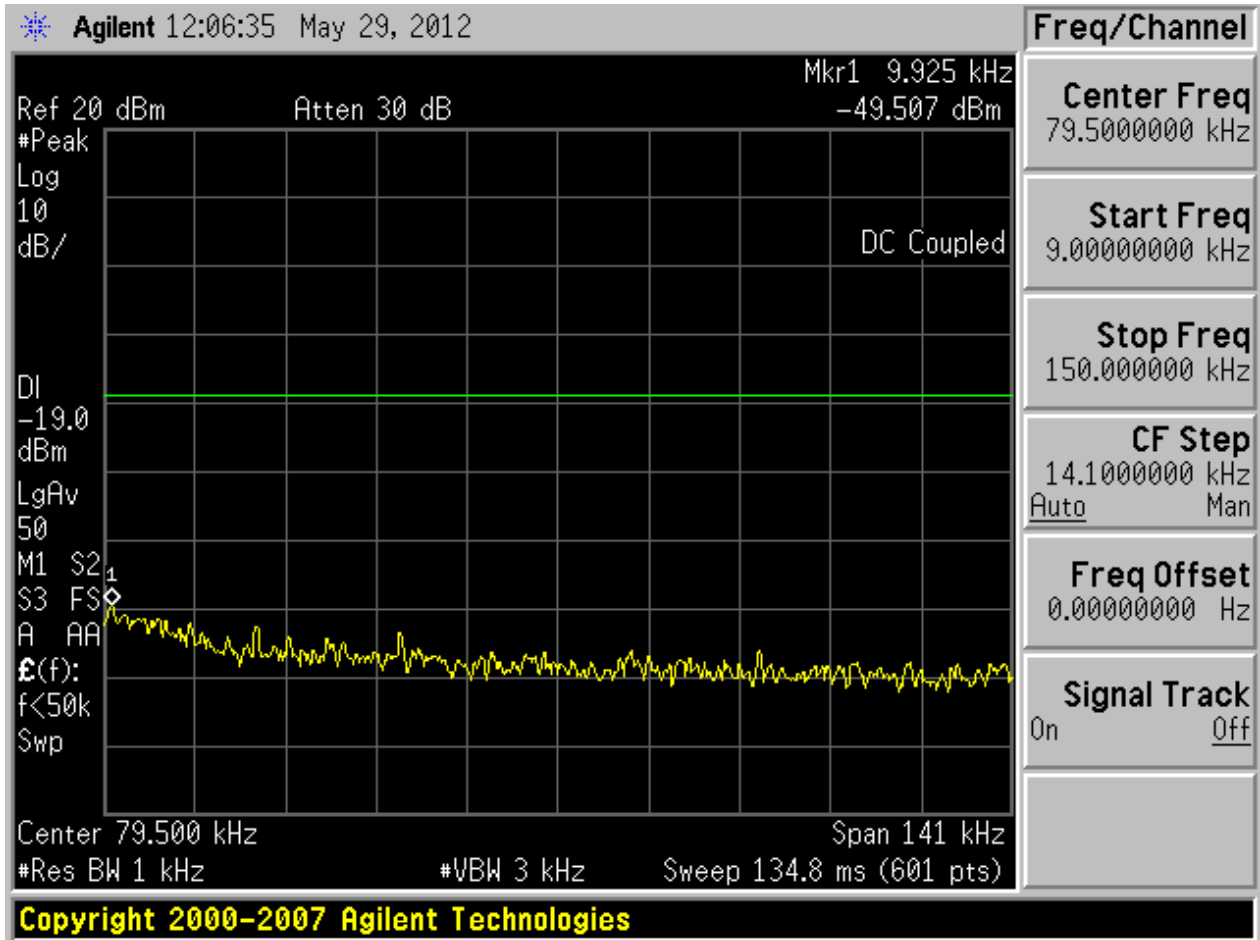


2.1311N20/0\_B@1

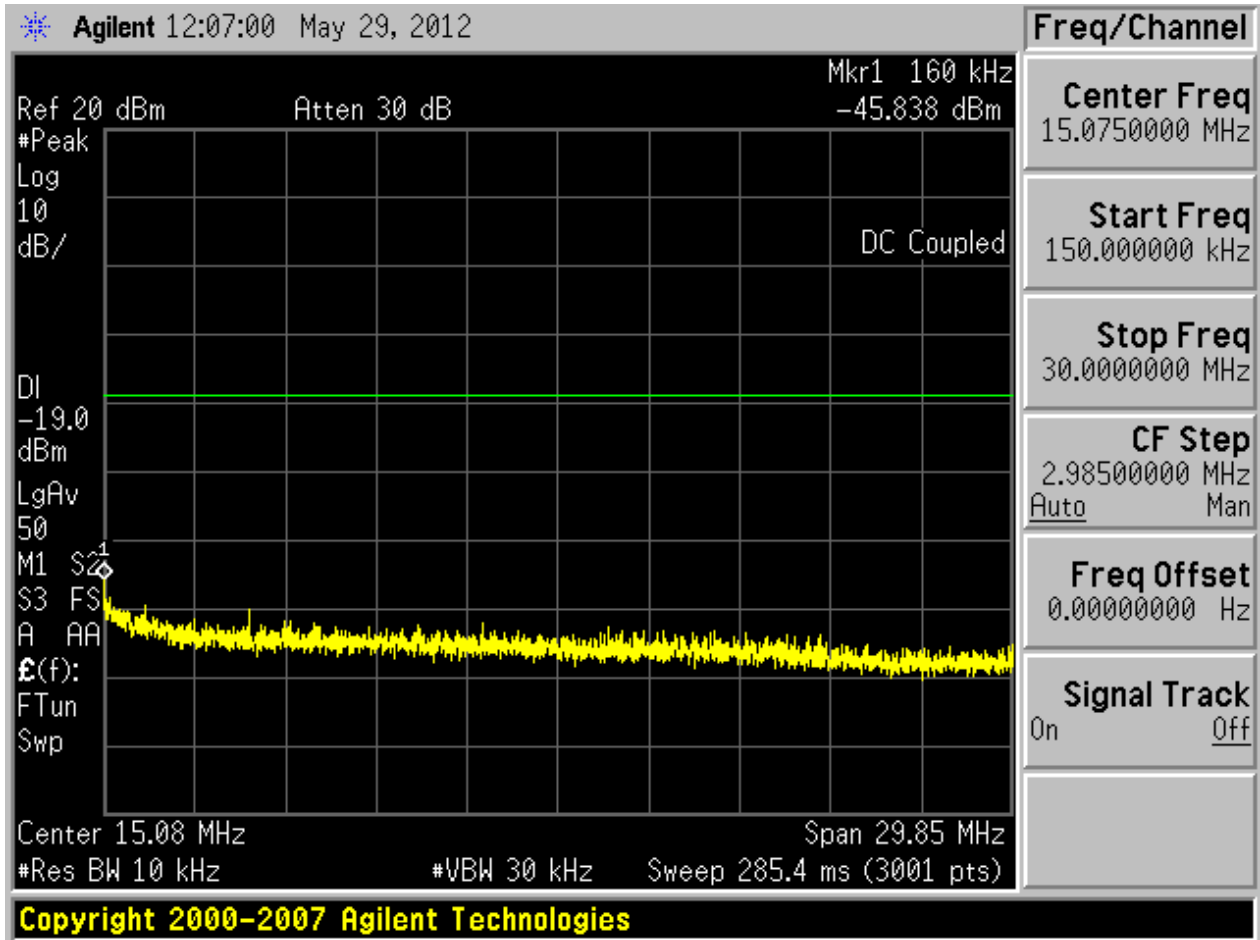
2.13.1 Pref

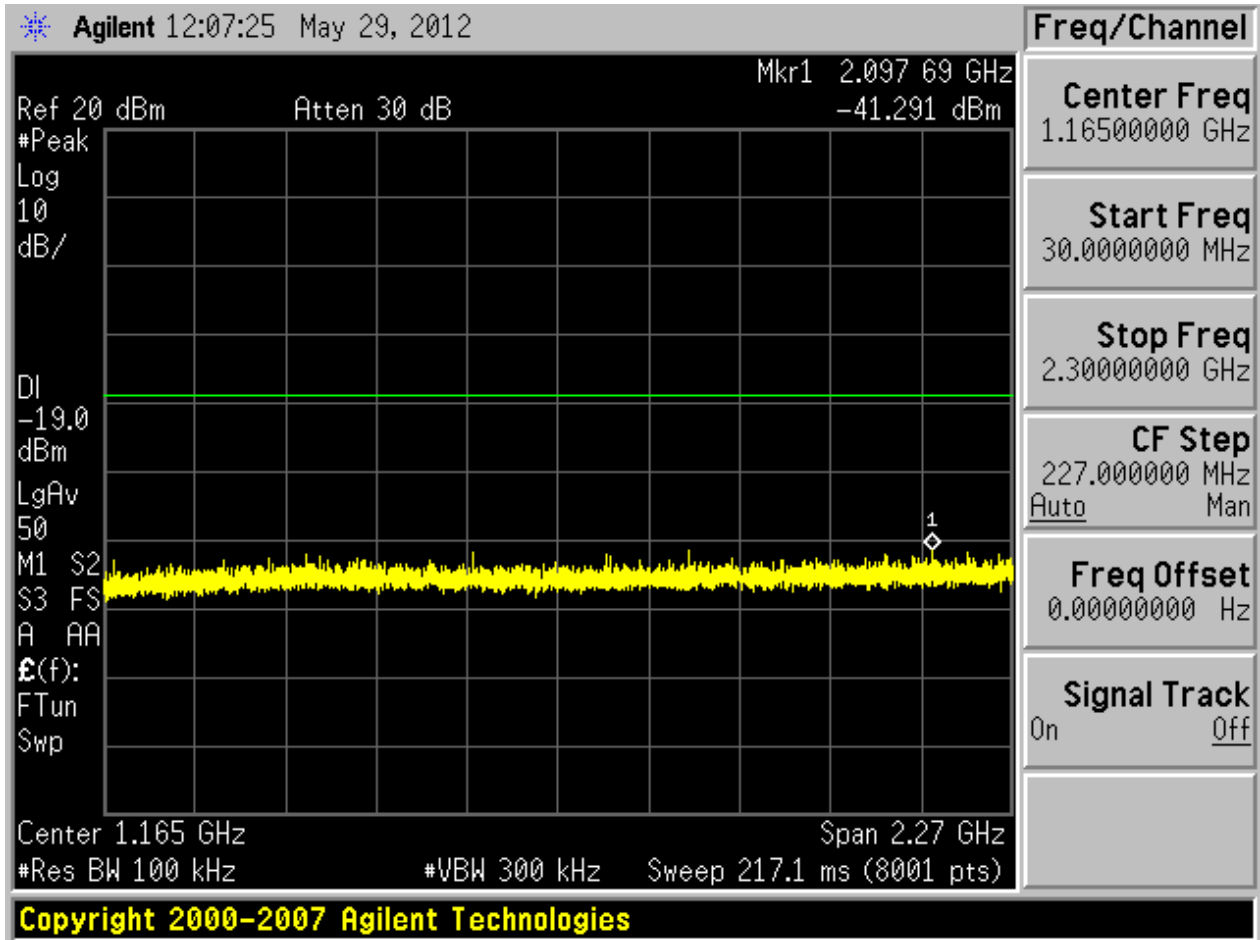


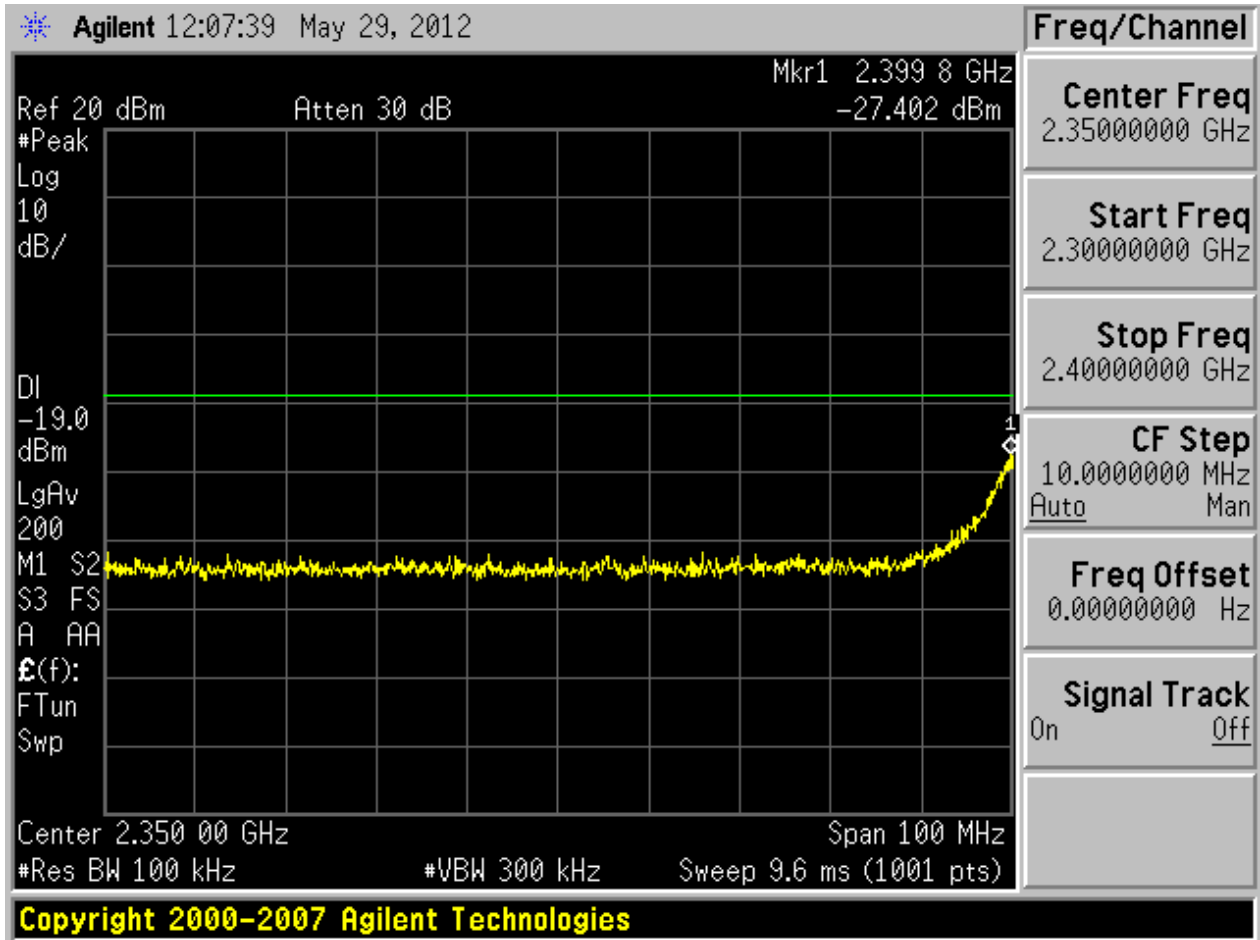
### 2.13.2 Puw

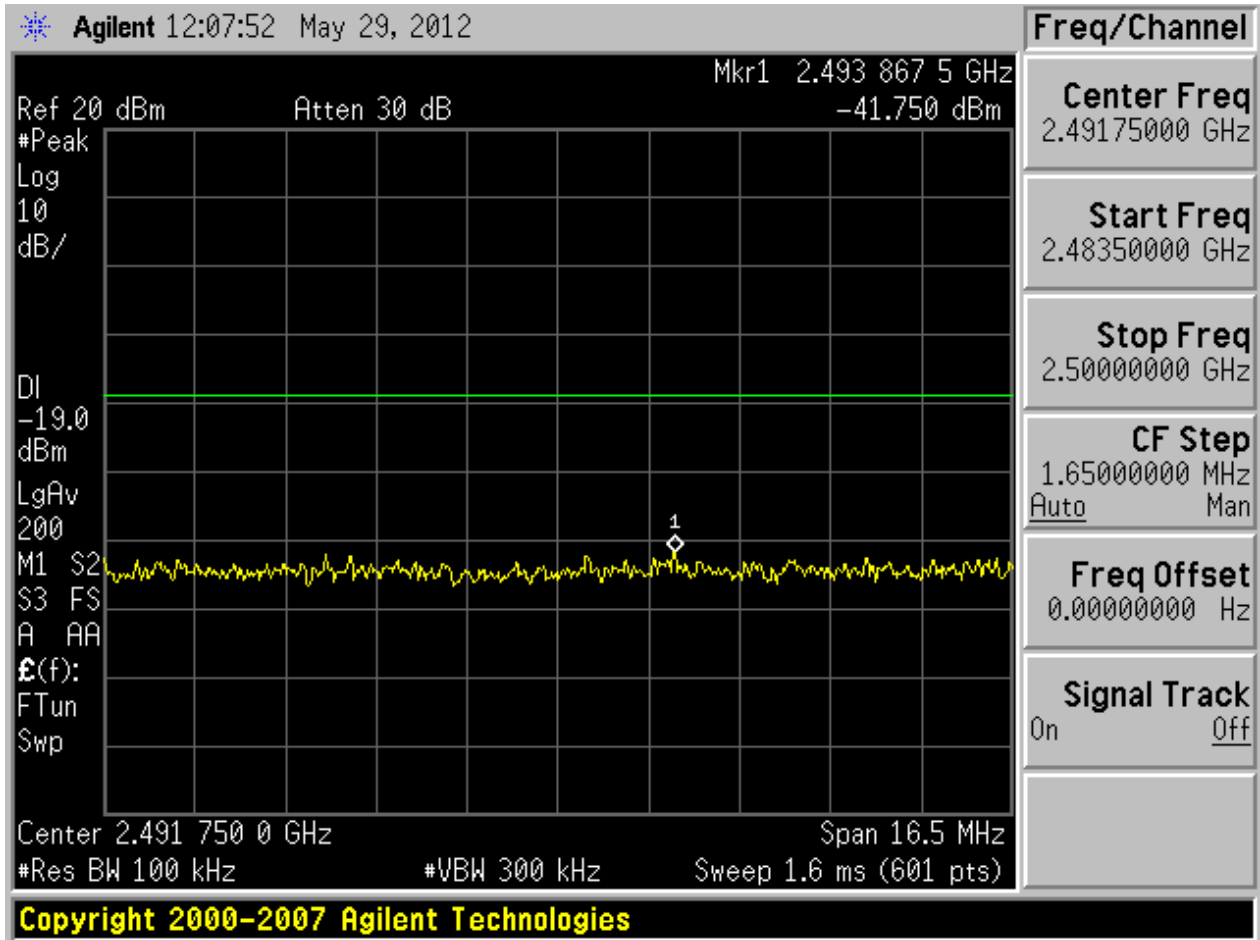


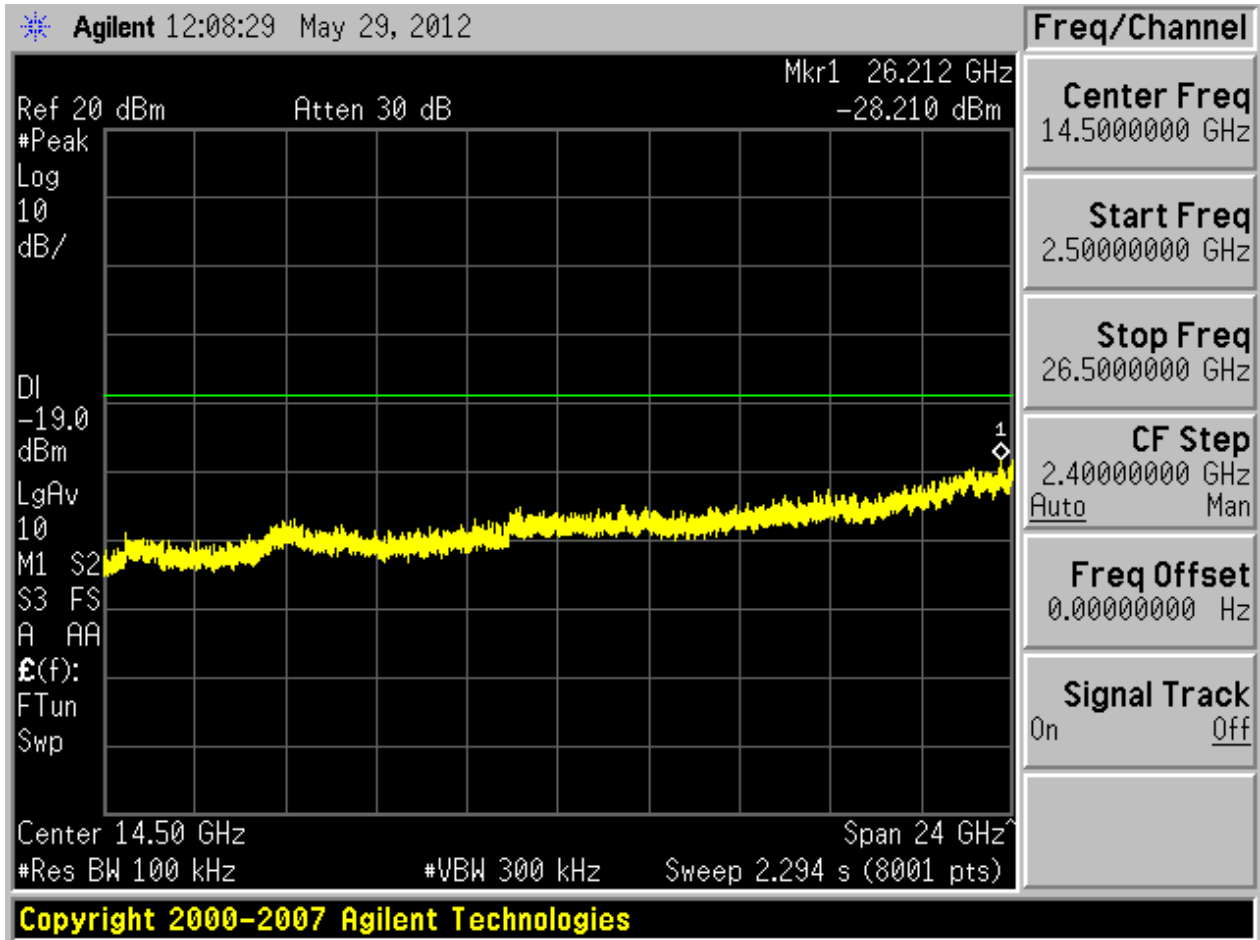






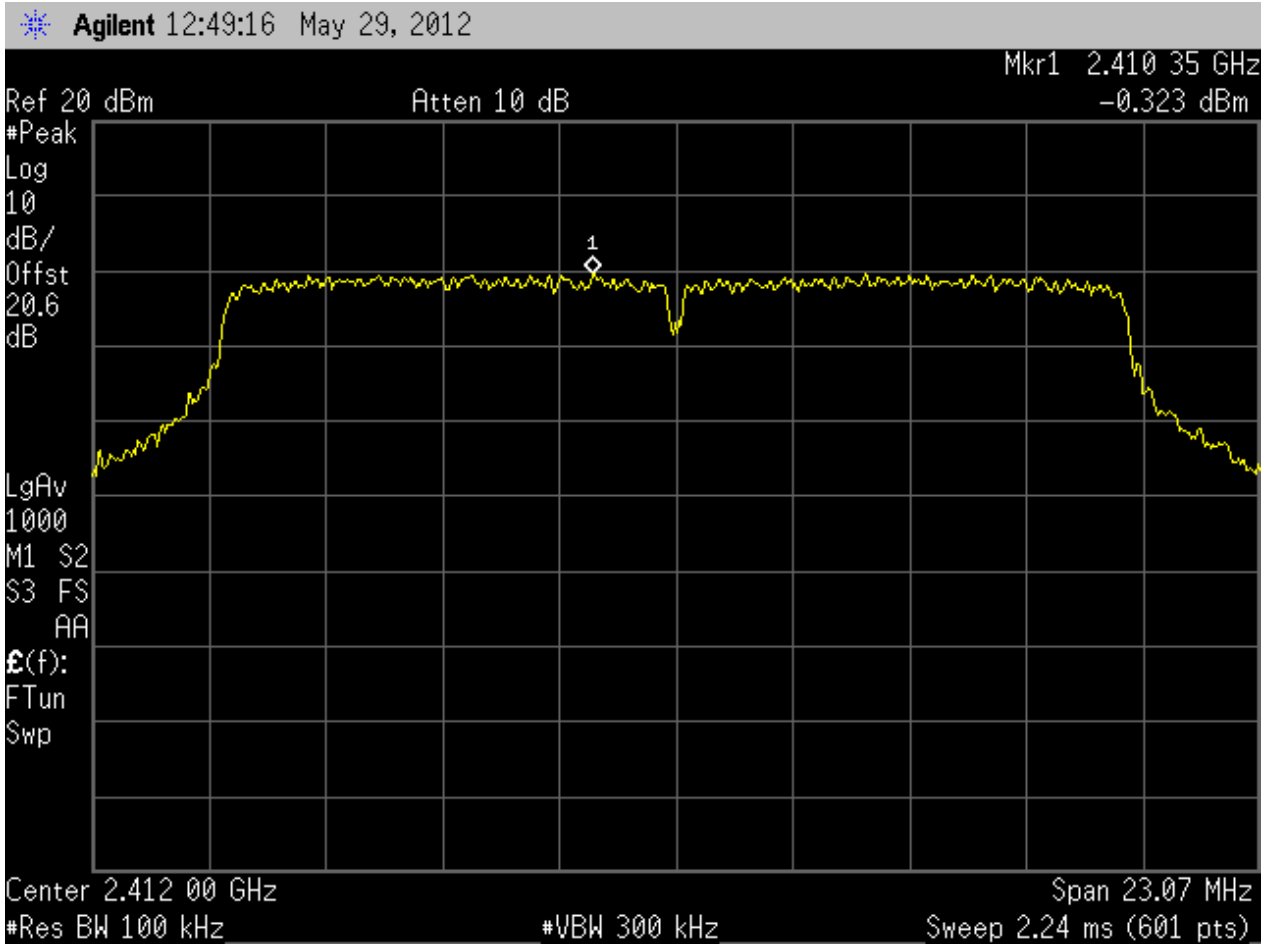




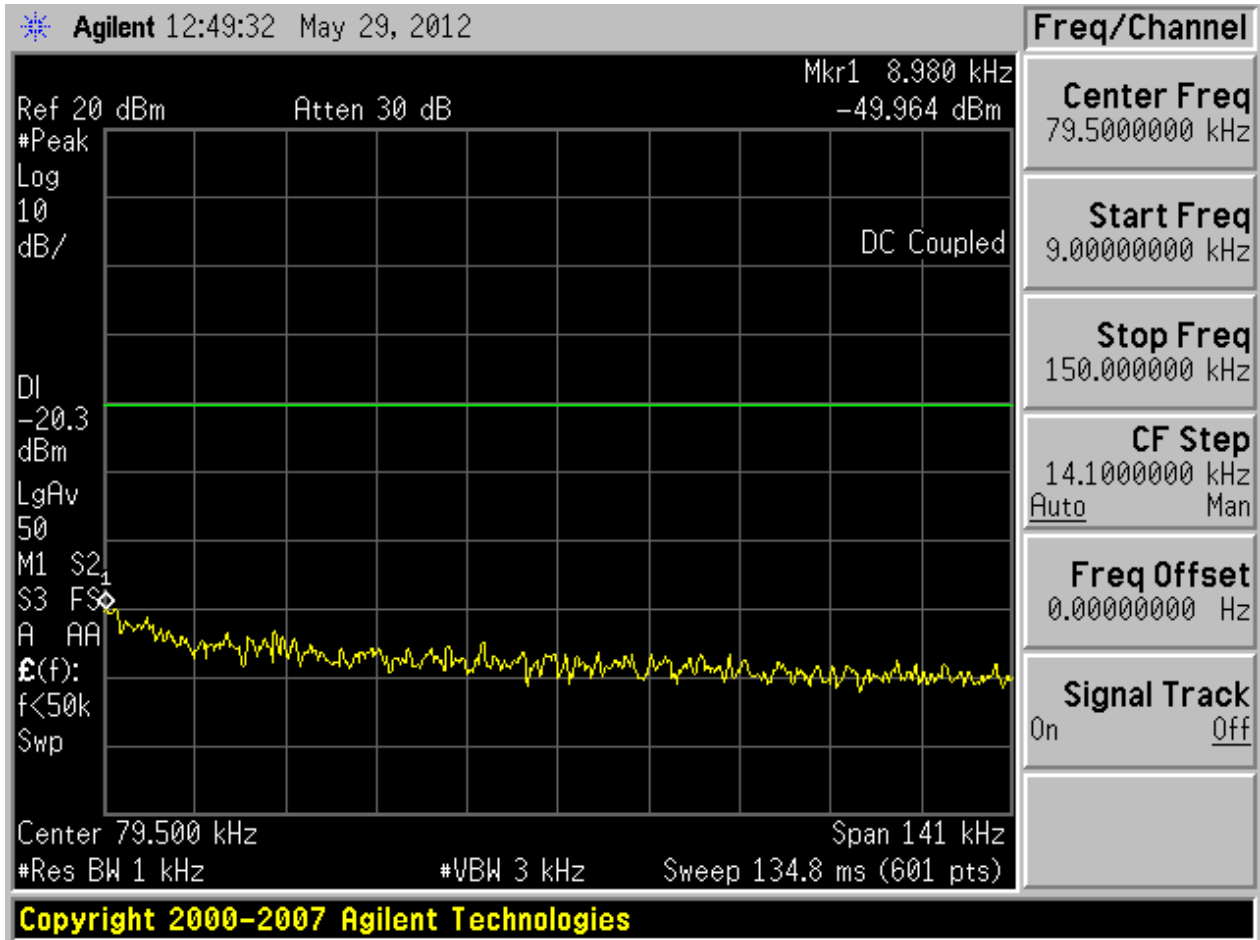


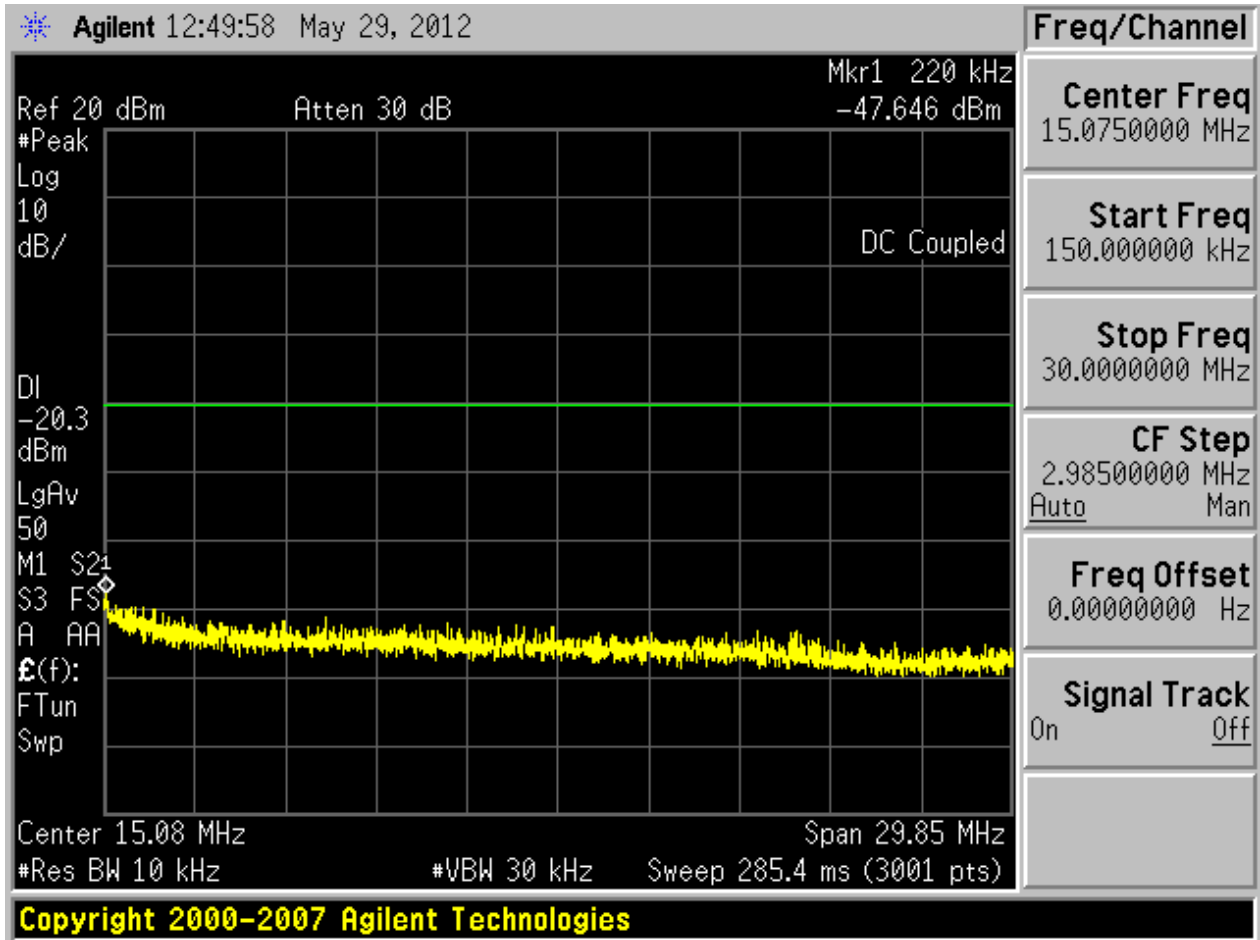
2.1411N20/0\_B@2

2.14.1 Pref

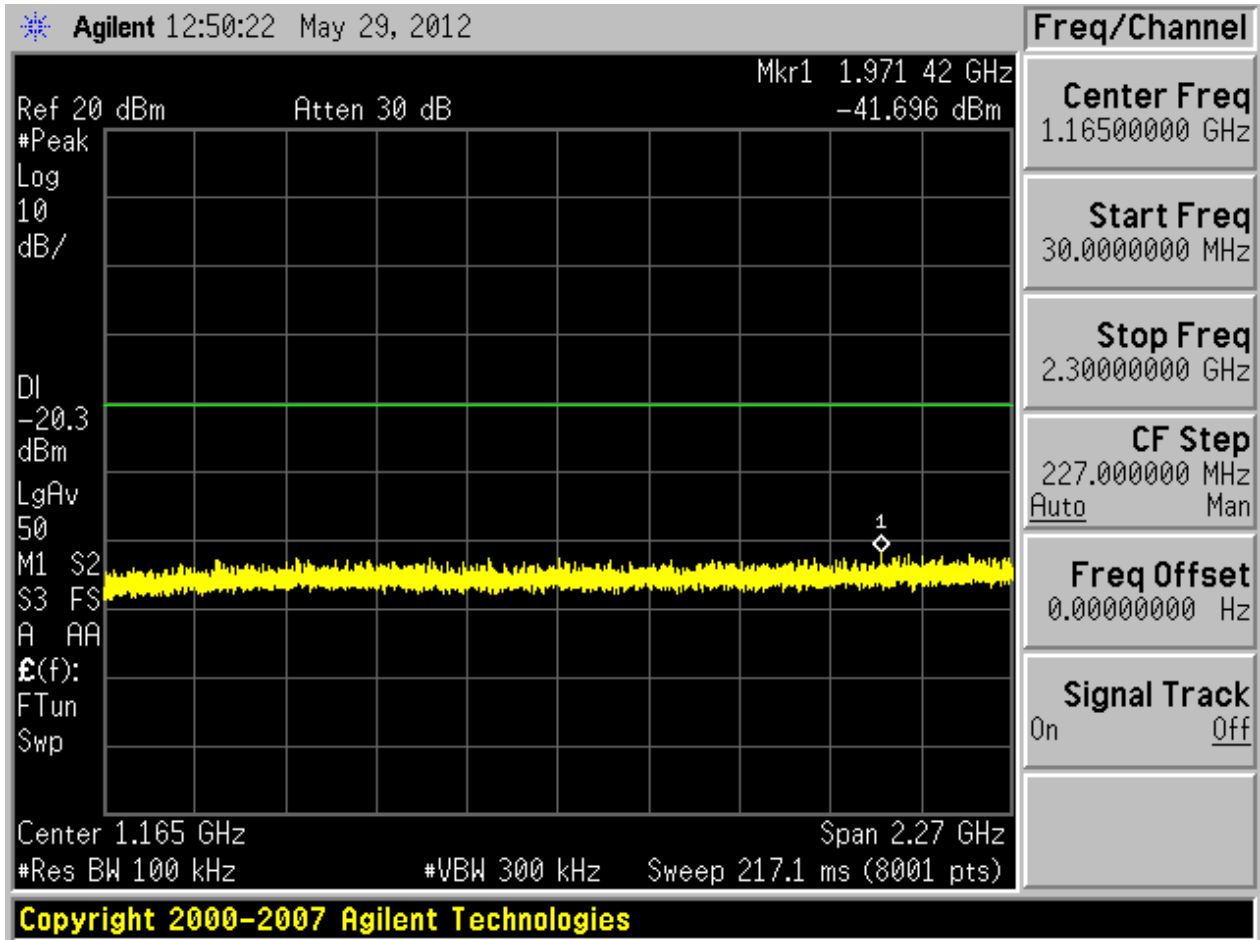


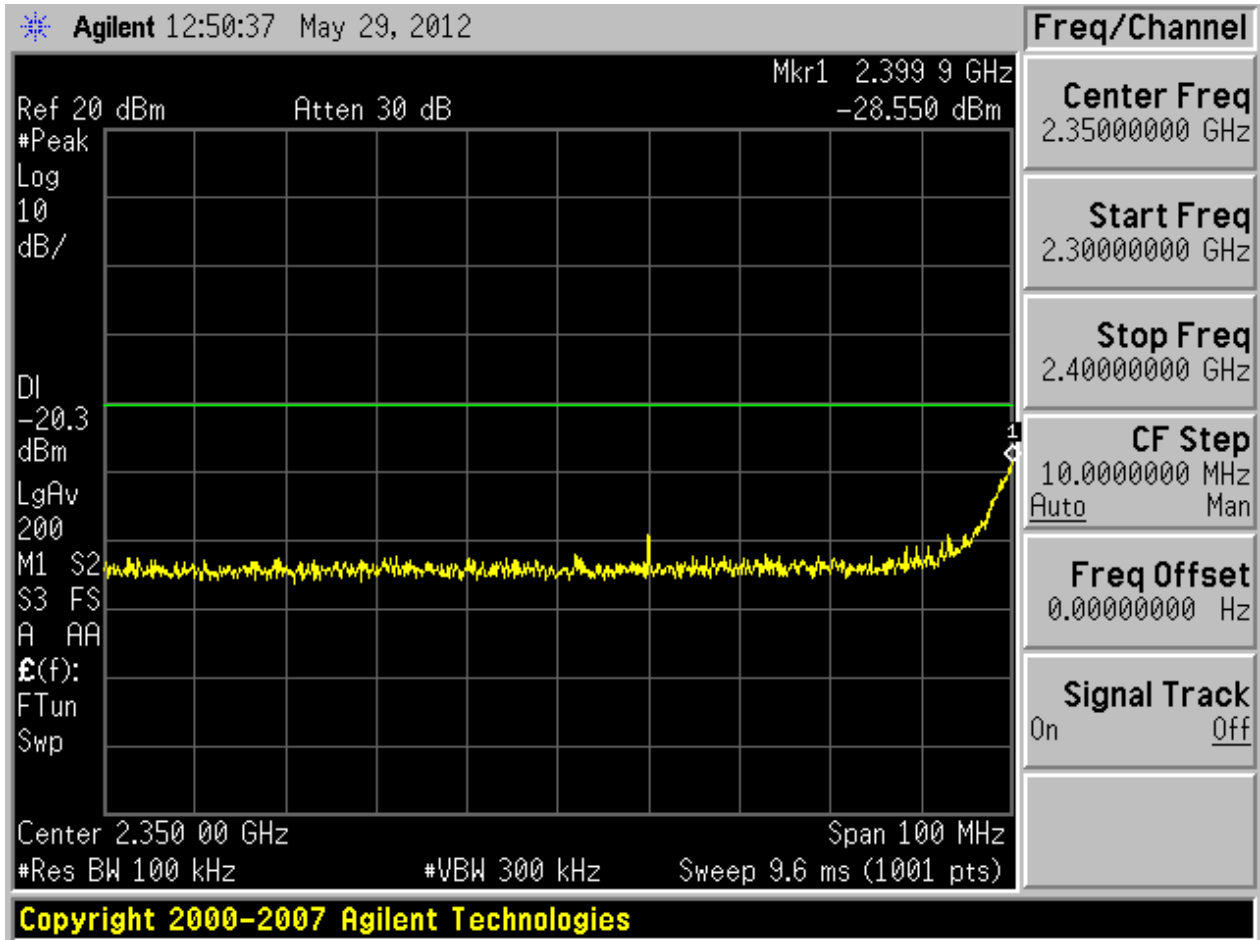
### 2.14.2 Puw

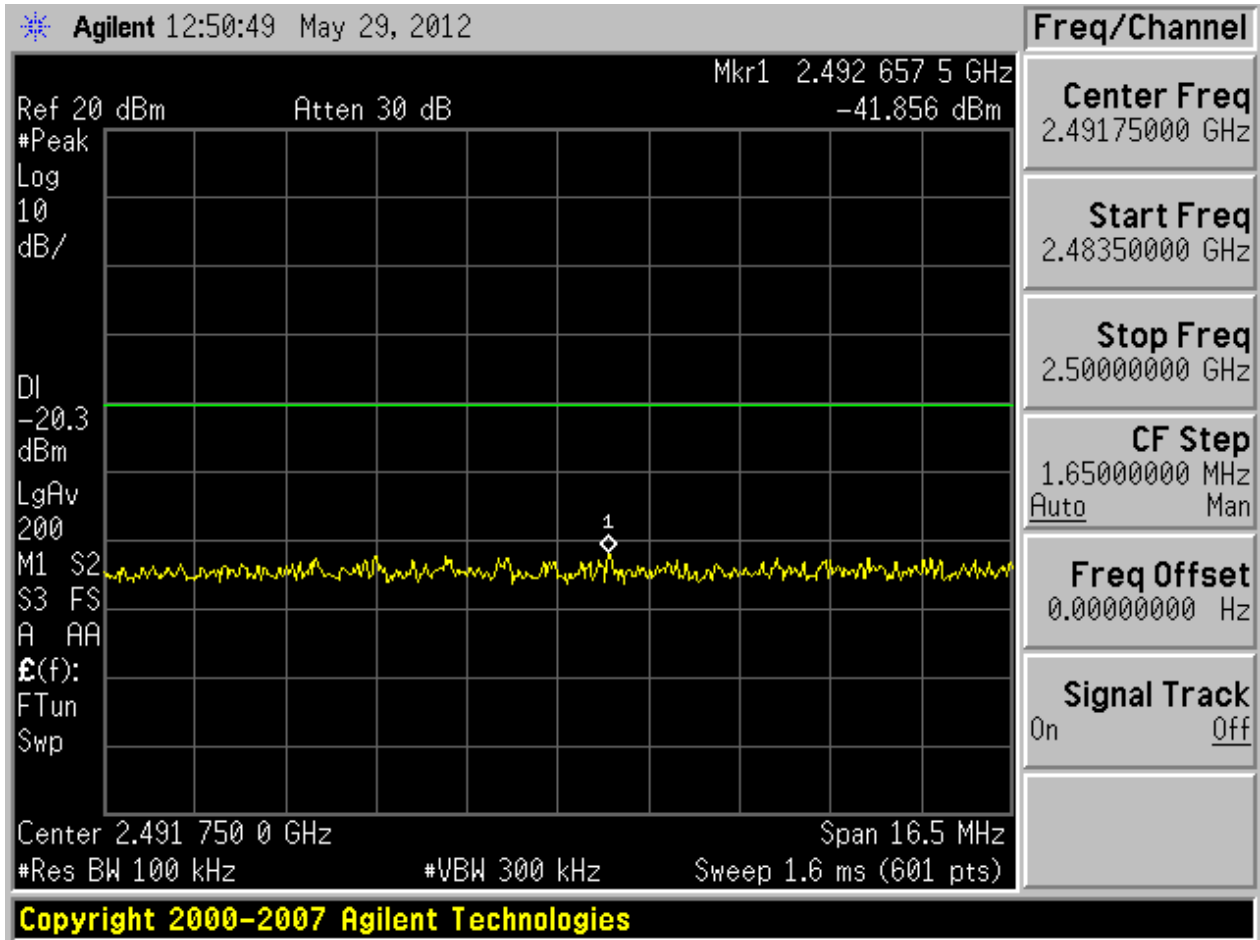


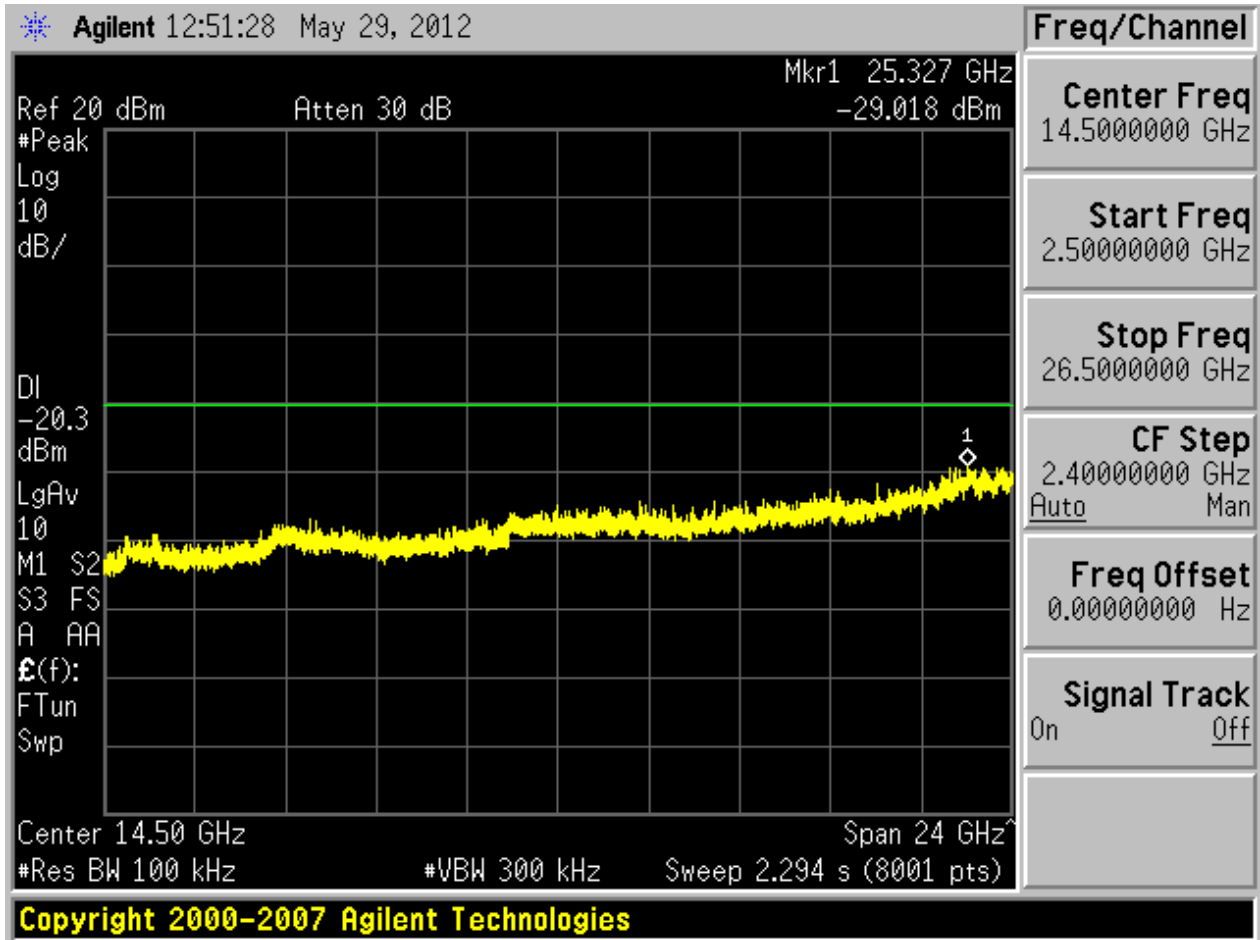






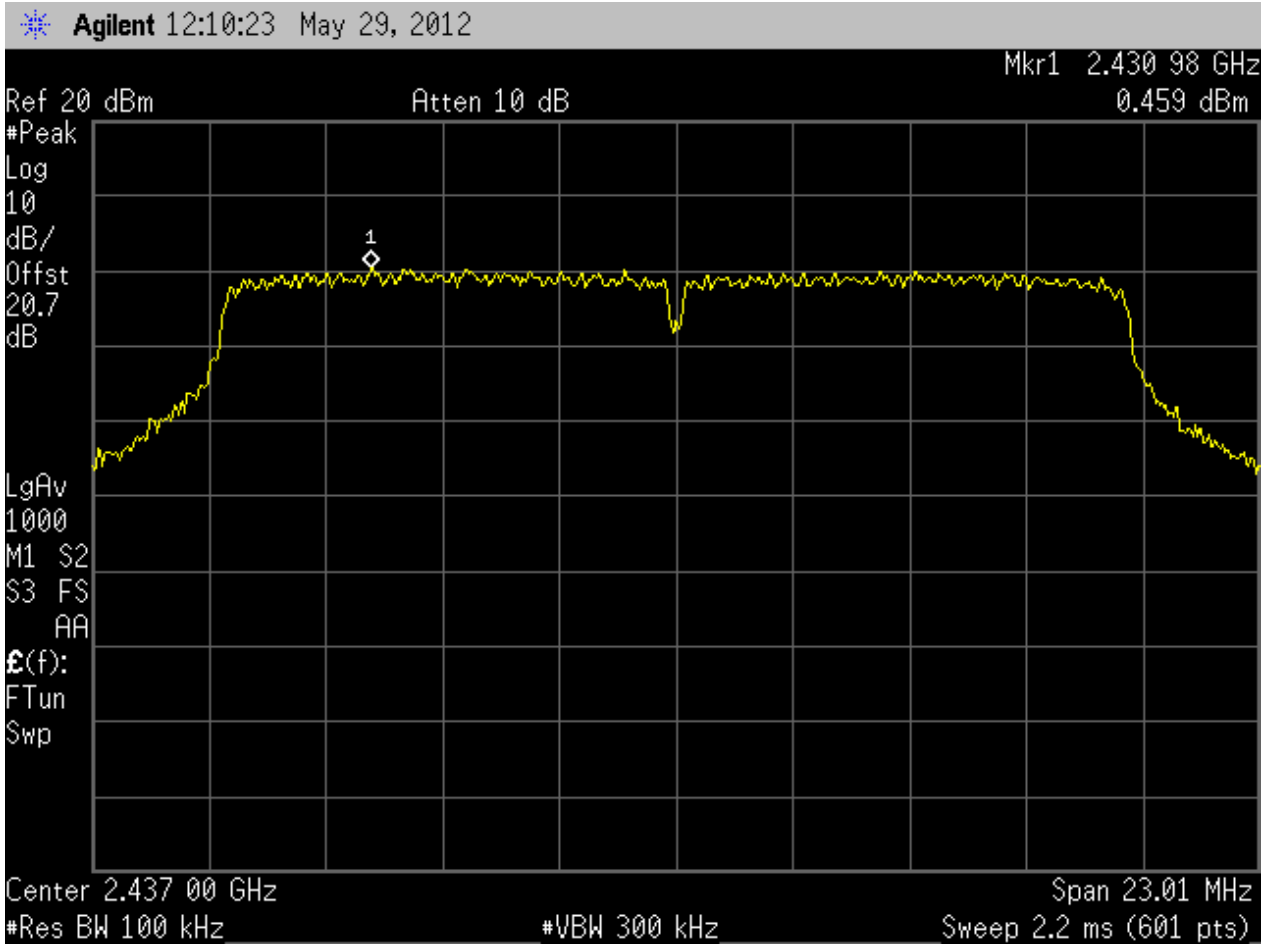




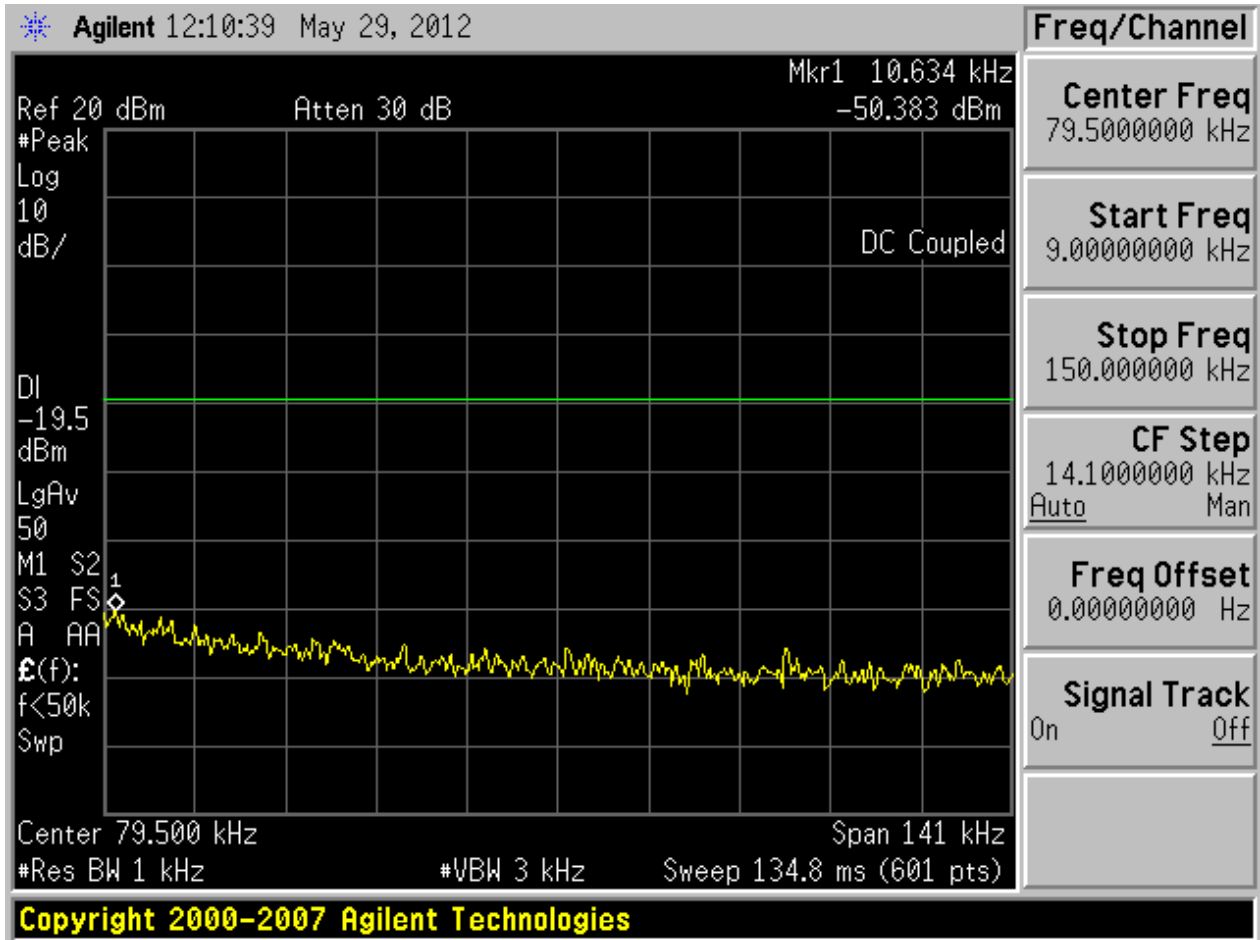


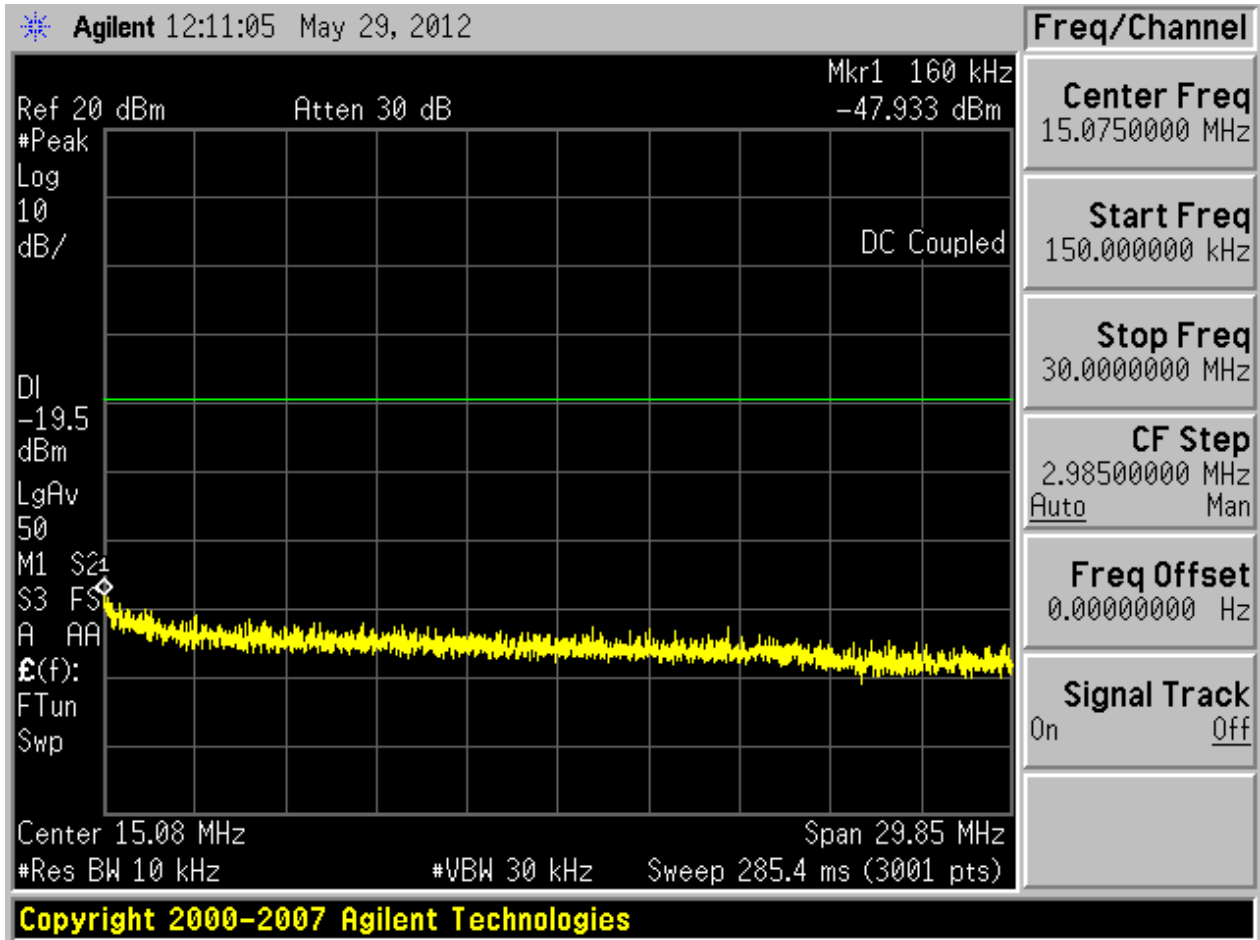
2.1511N20/0\_M@1

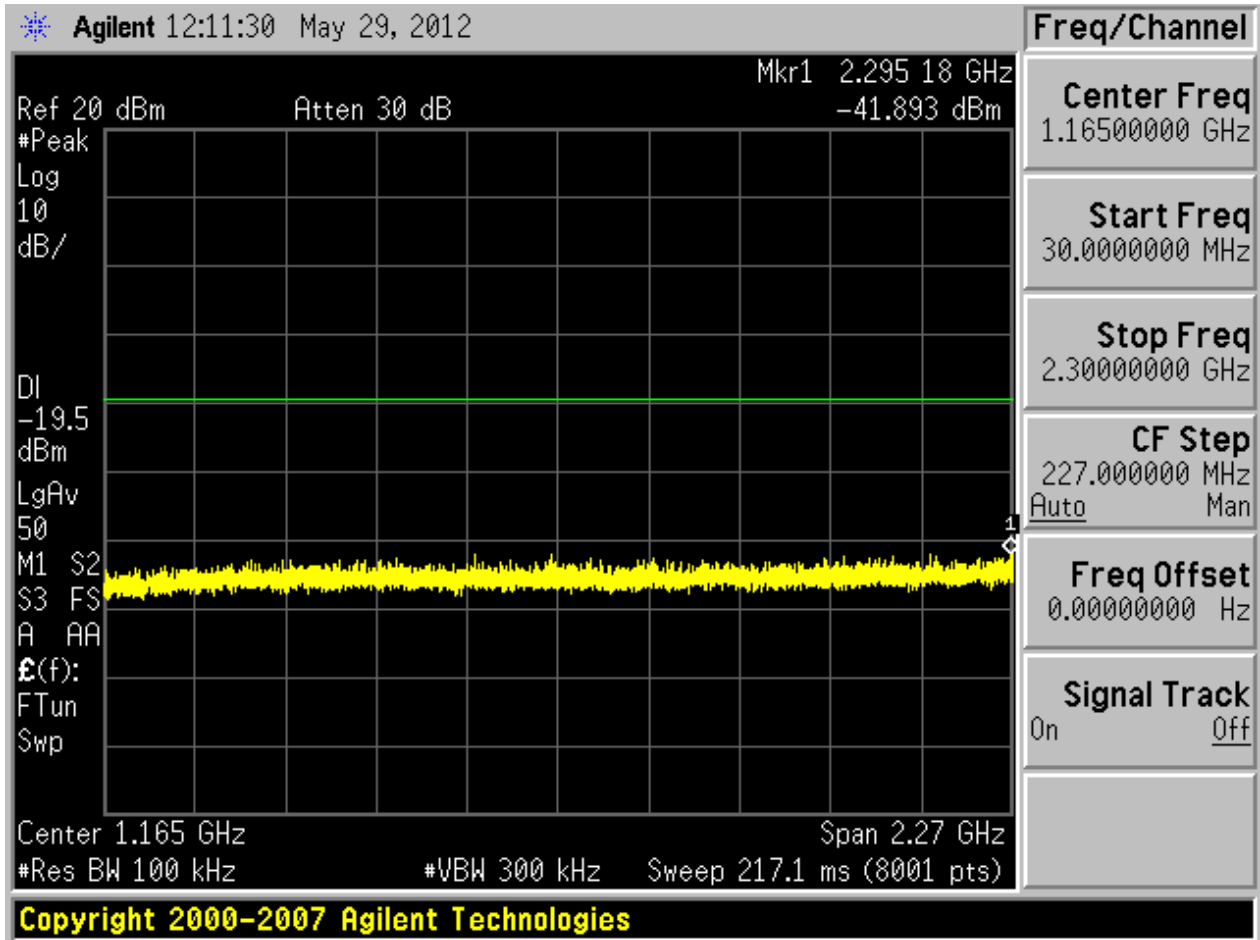
2.15.1 Pref



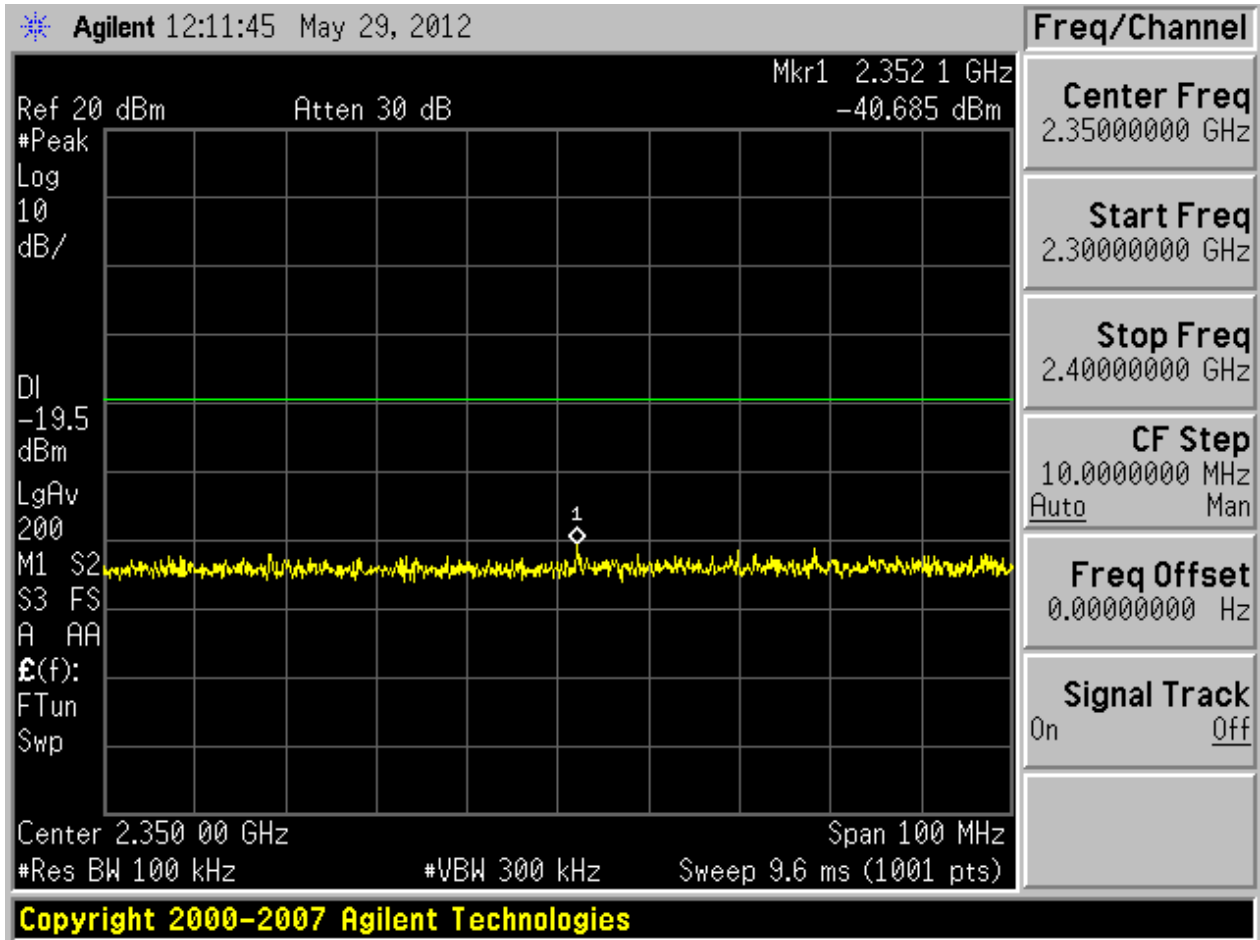
### 2.15.2 Puw

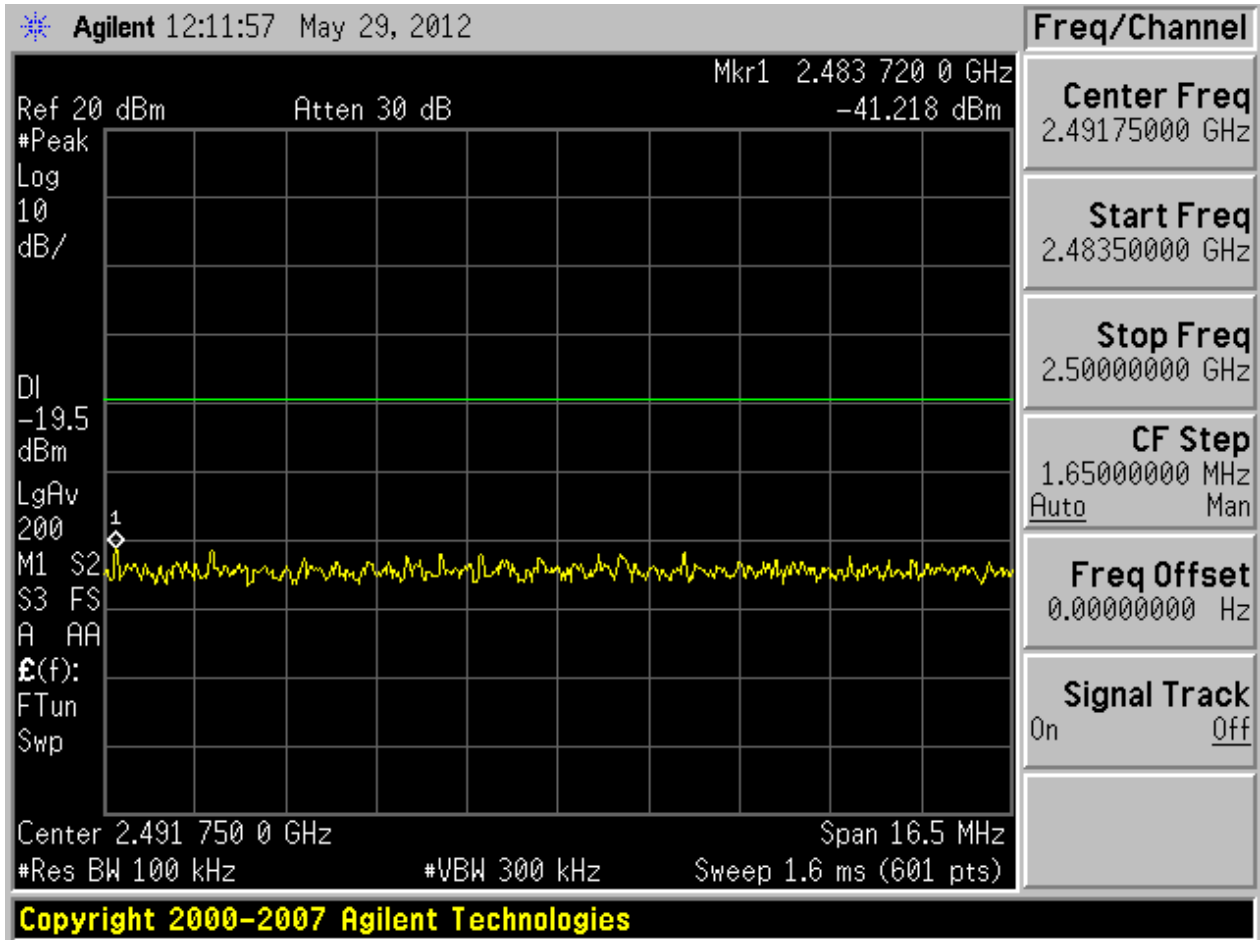


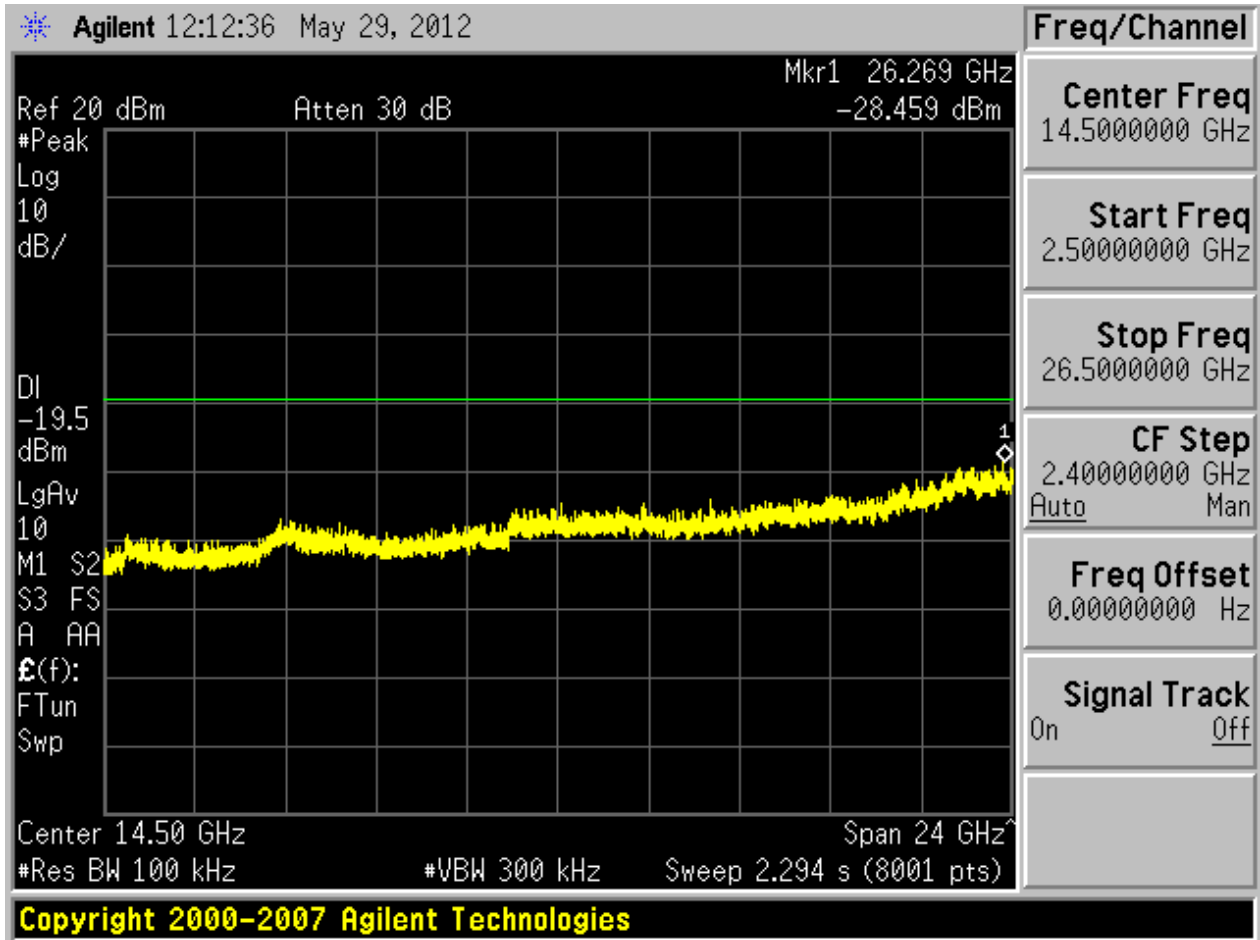






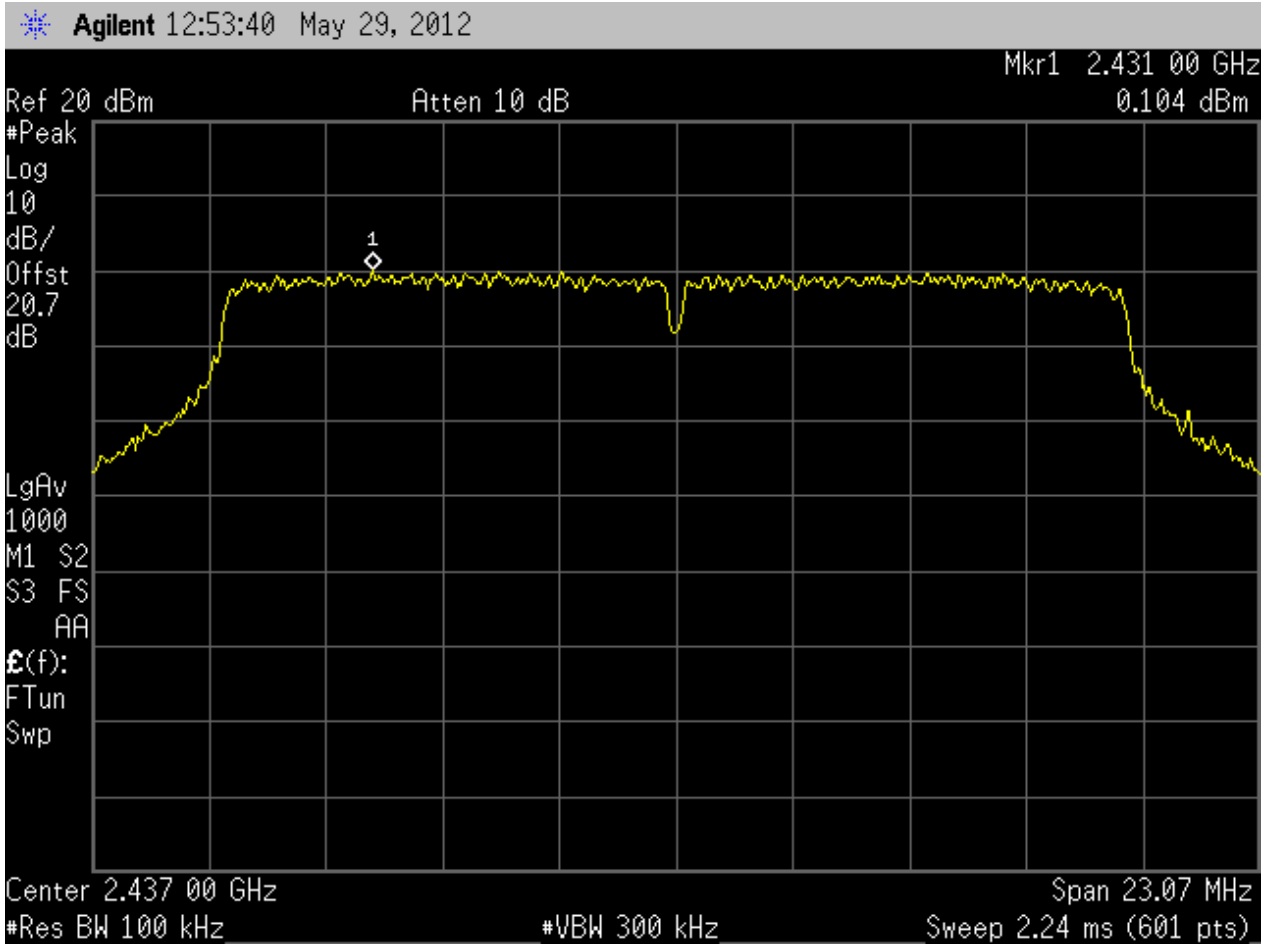




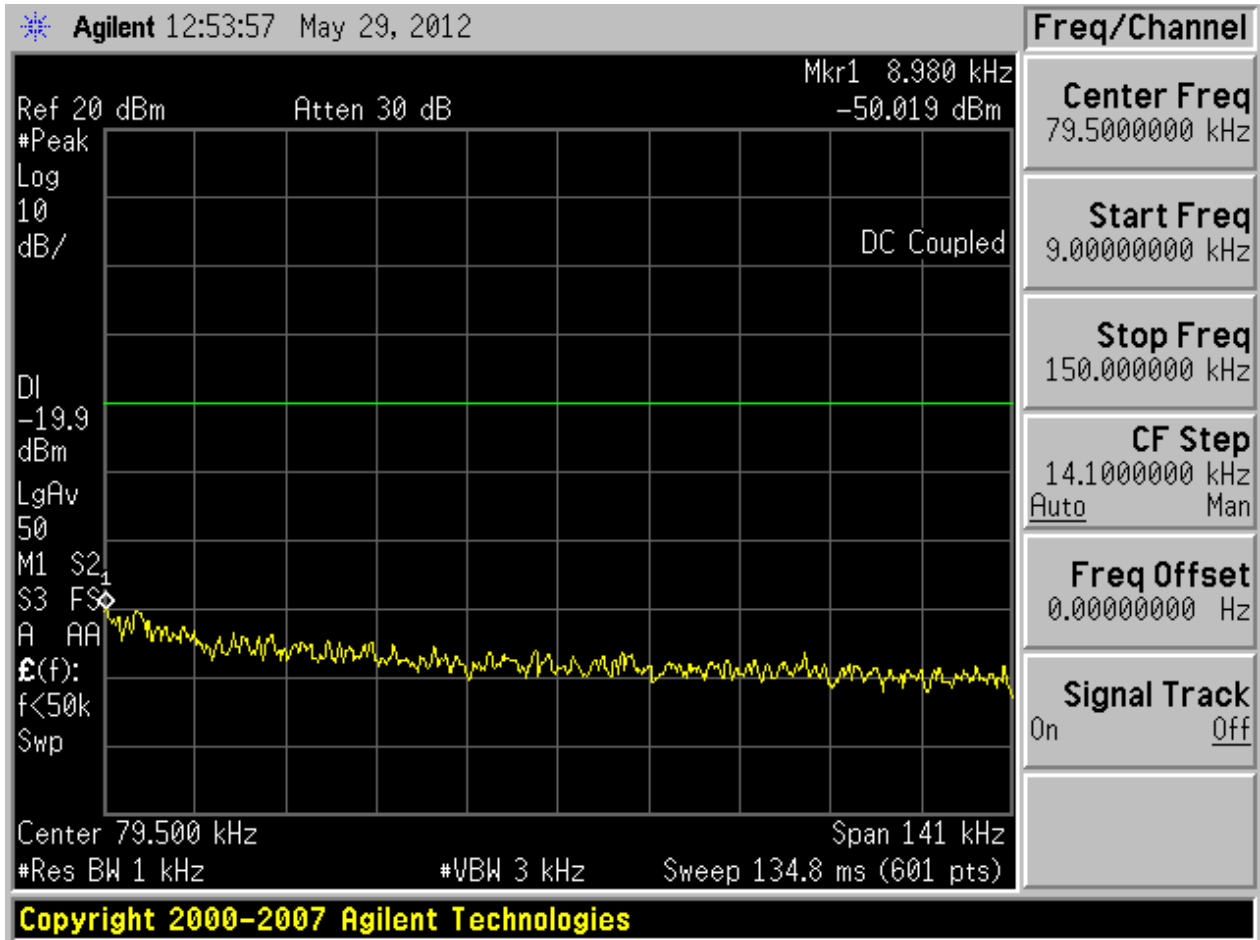


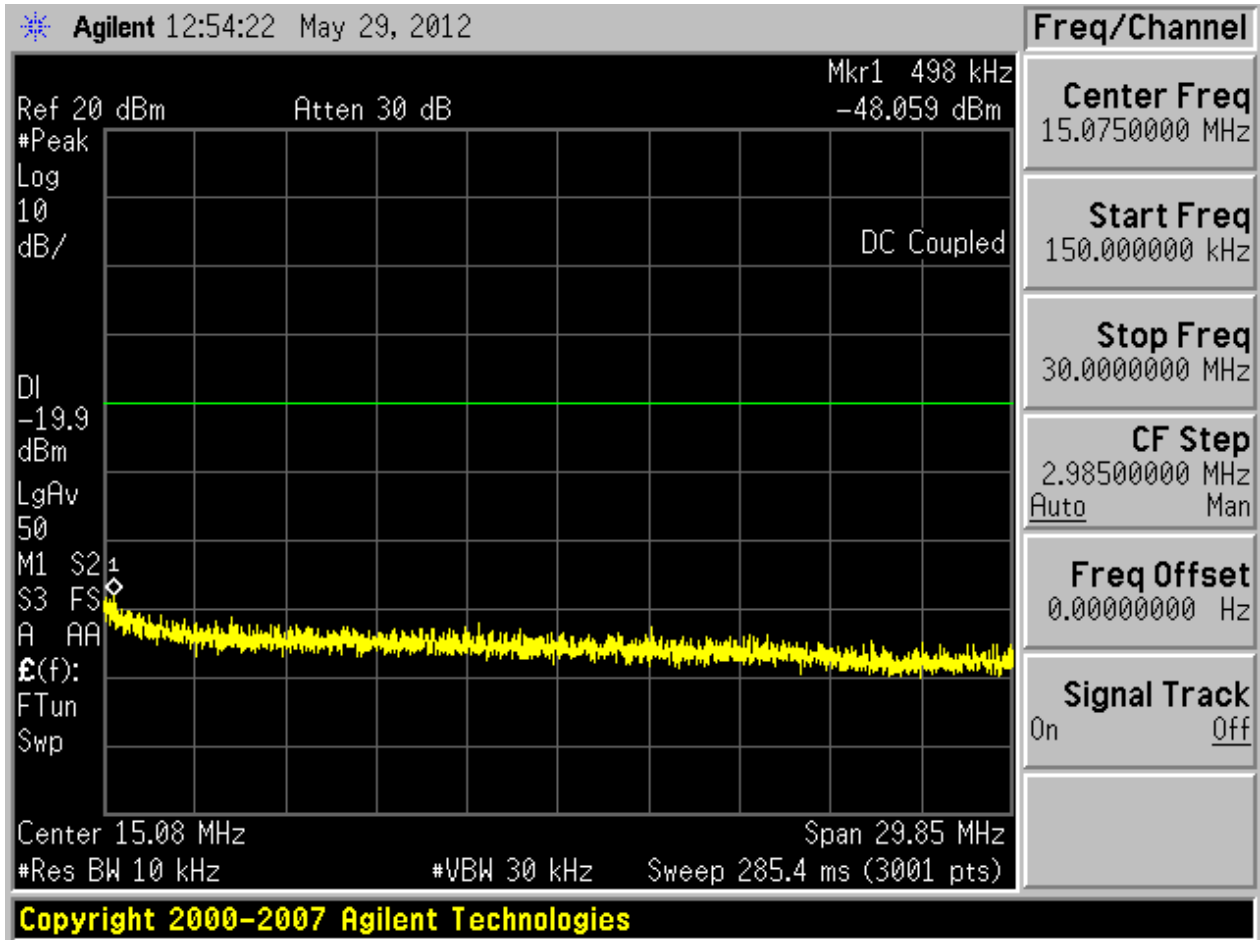
2.1611N20/0\_M@2

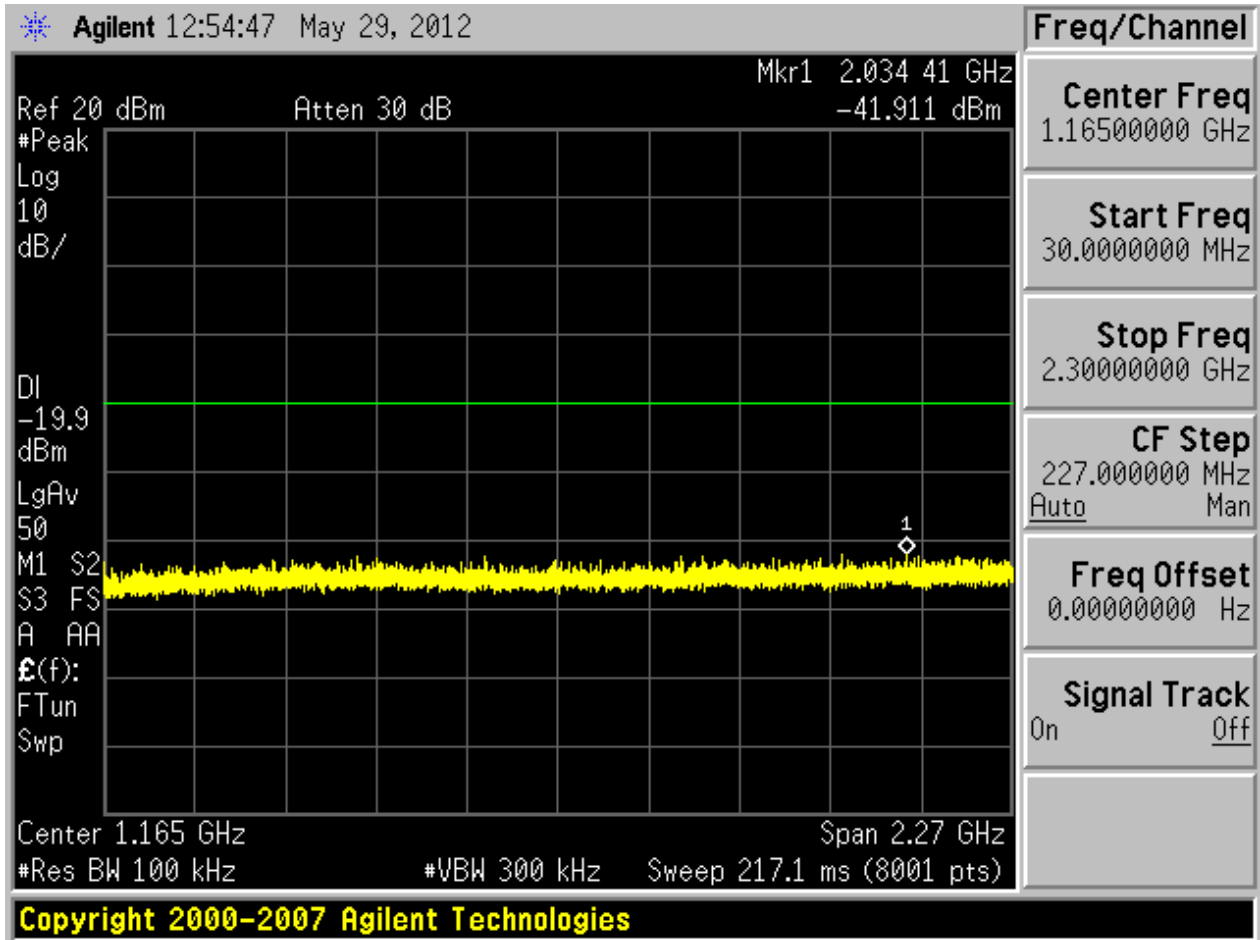
2.16.1 Pref

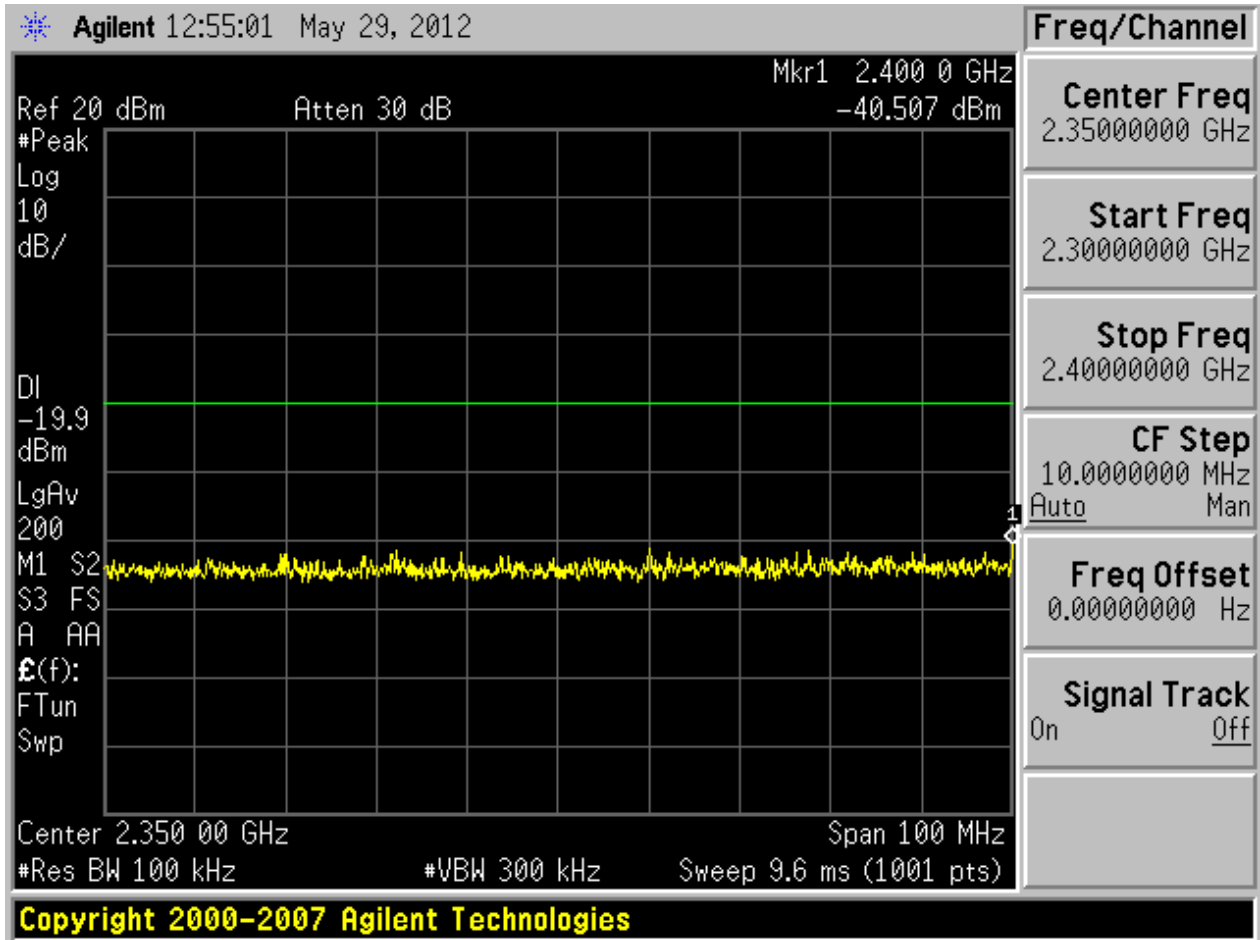


### 2.16.2 Puw

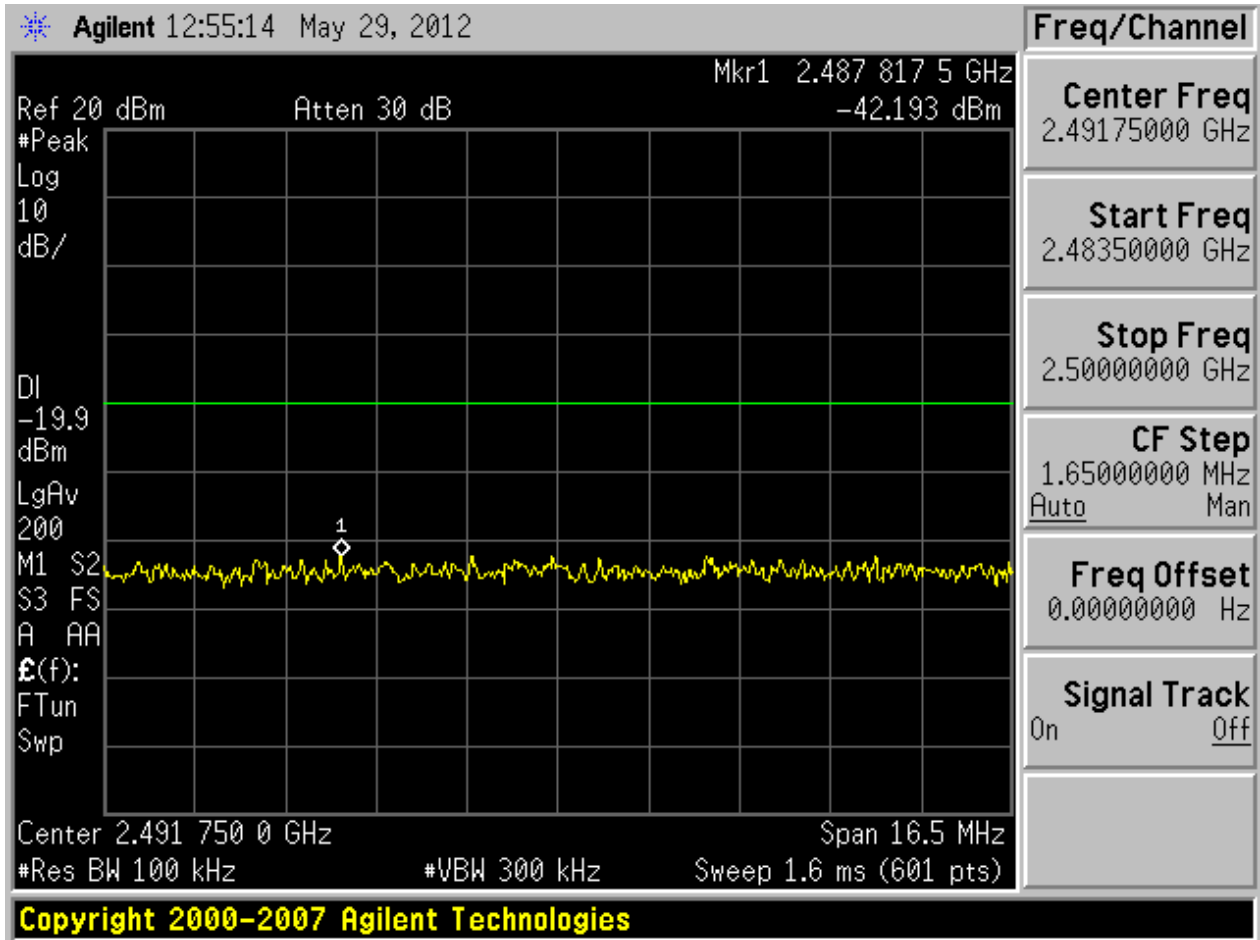


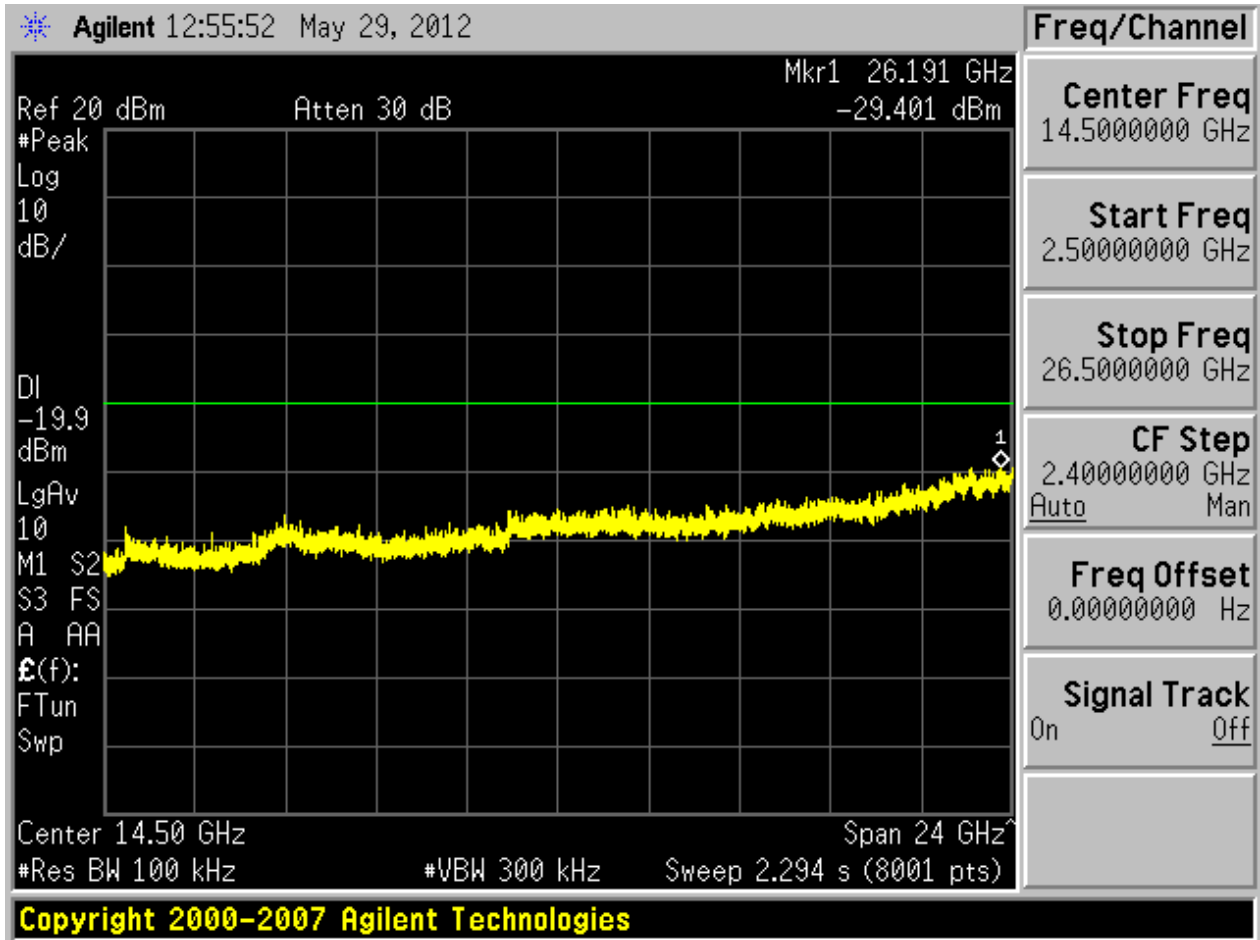






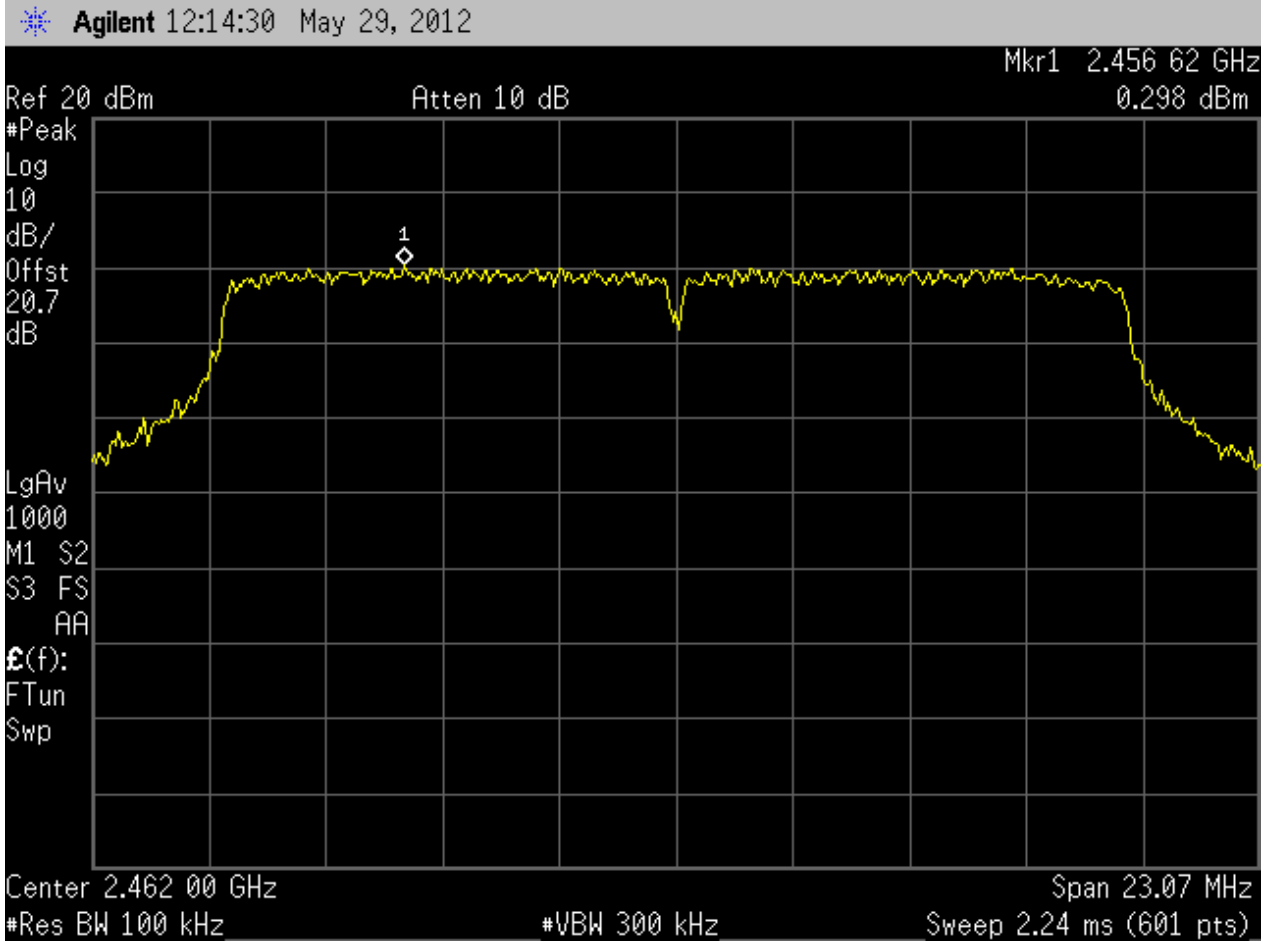




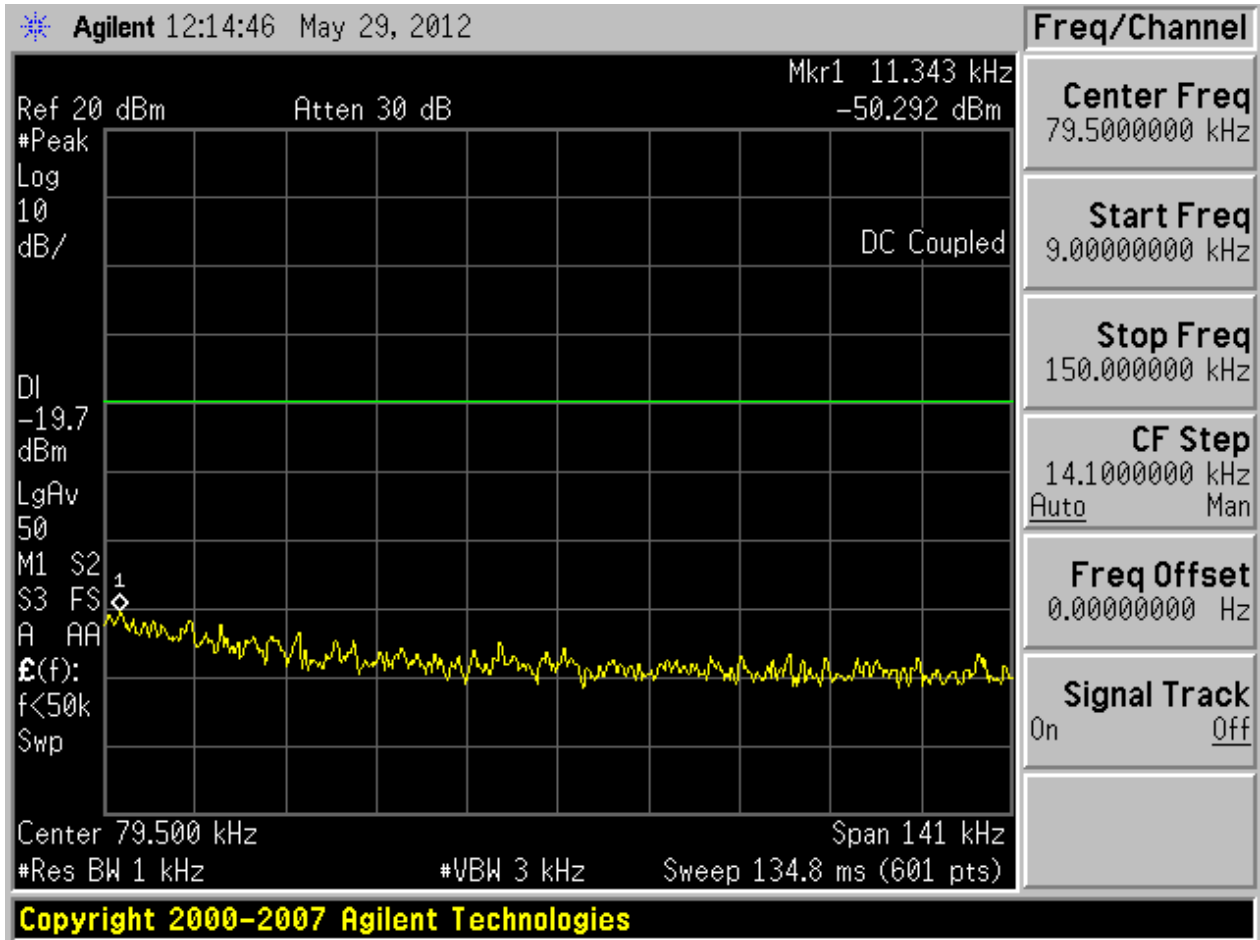


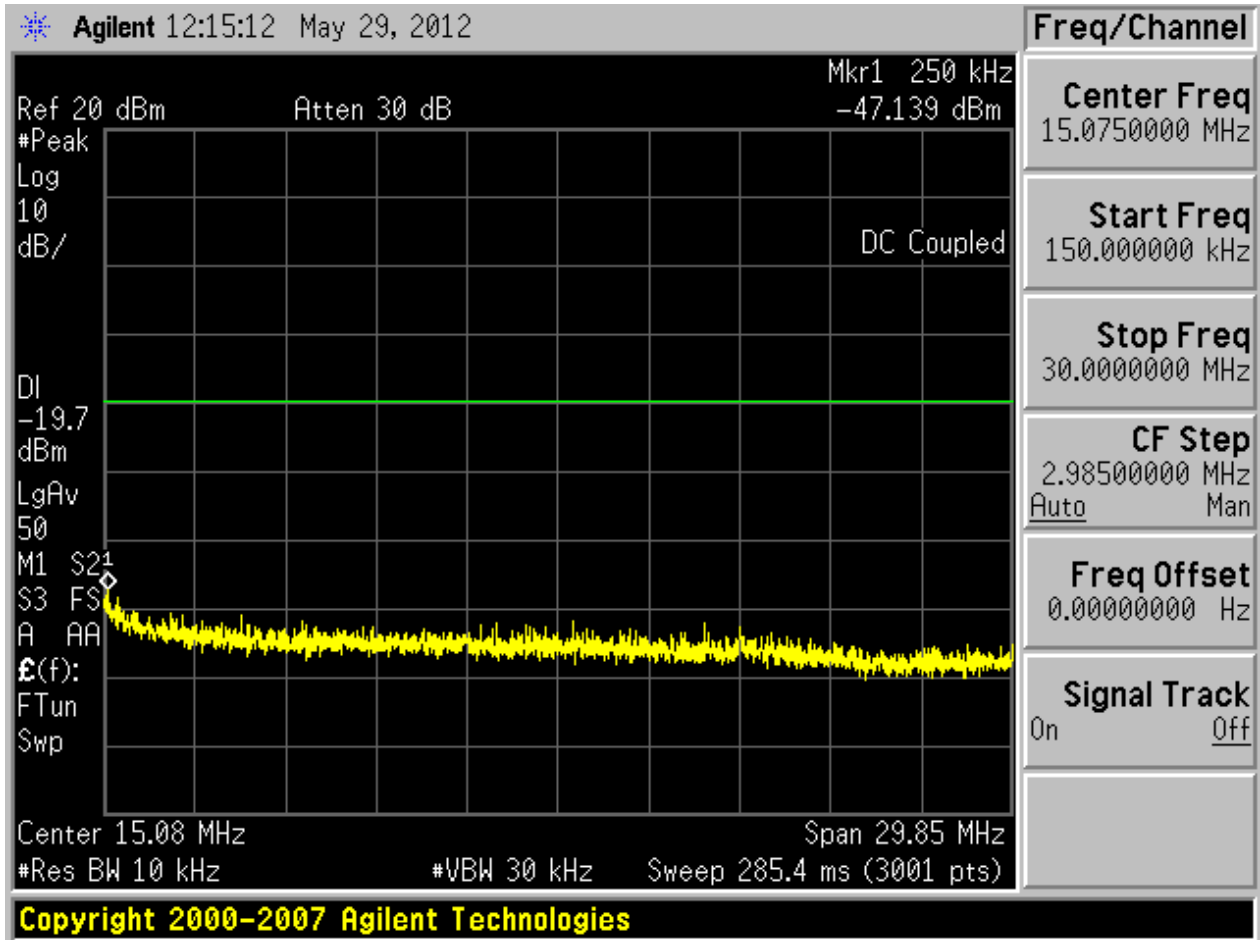
2.1711N20/0\_T@1

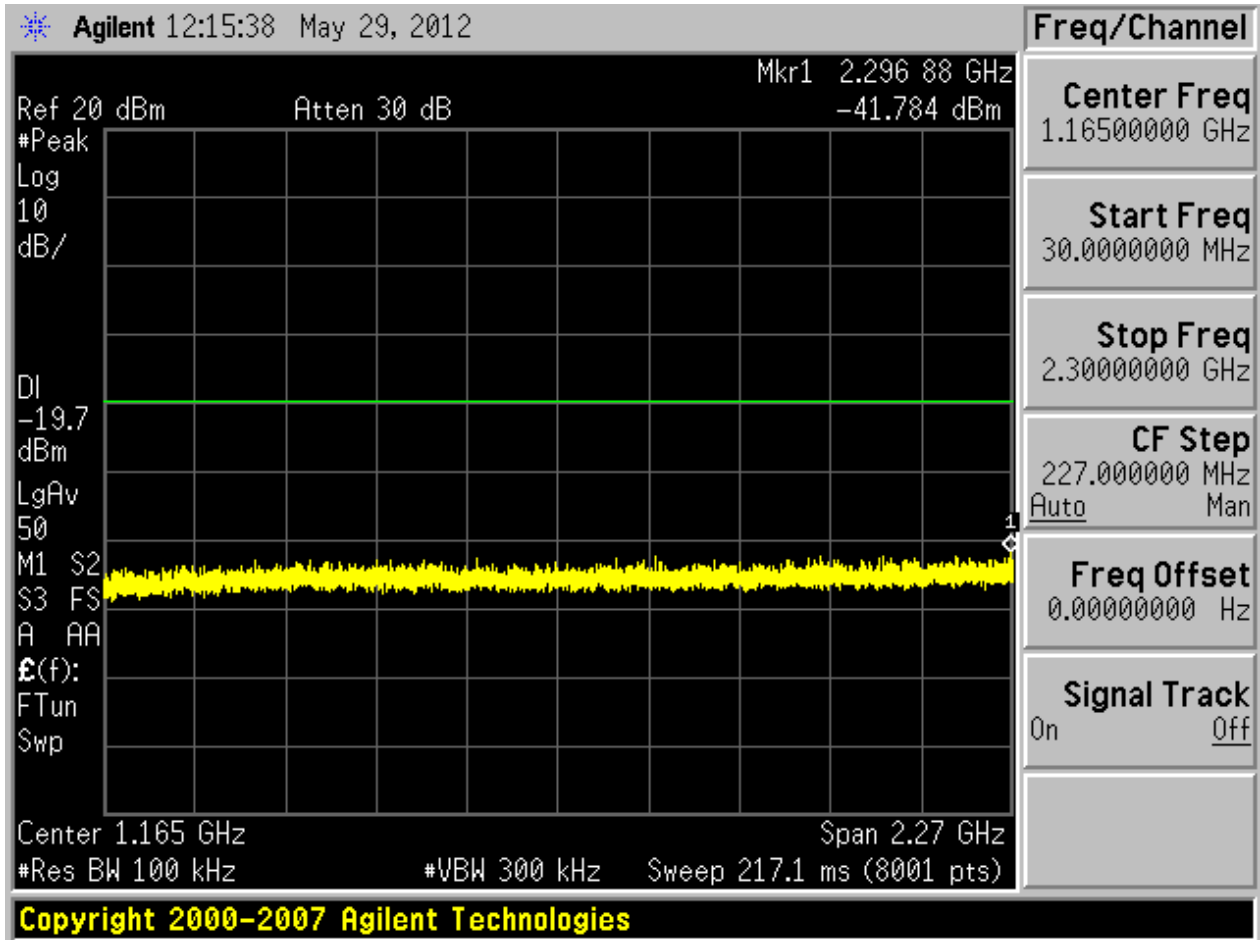
2.17.1 Pref

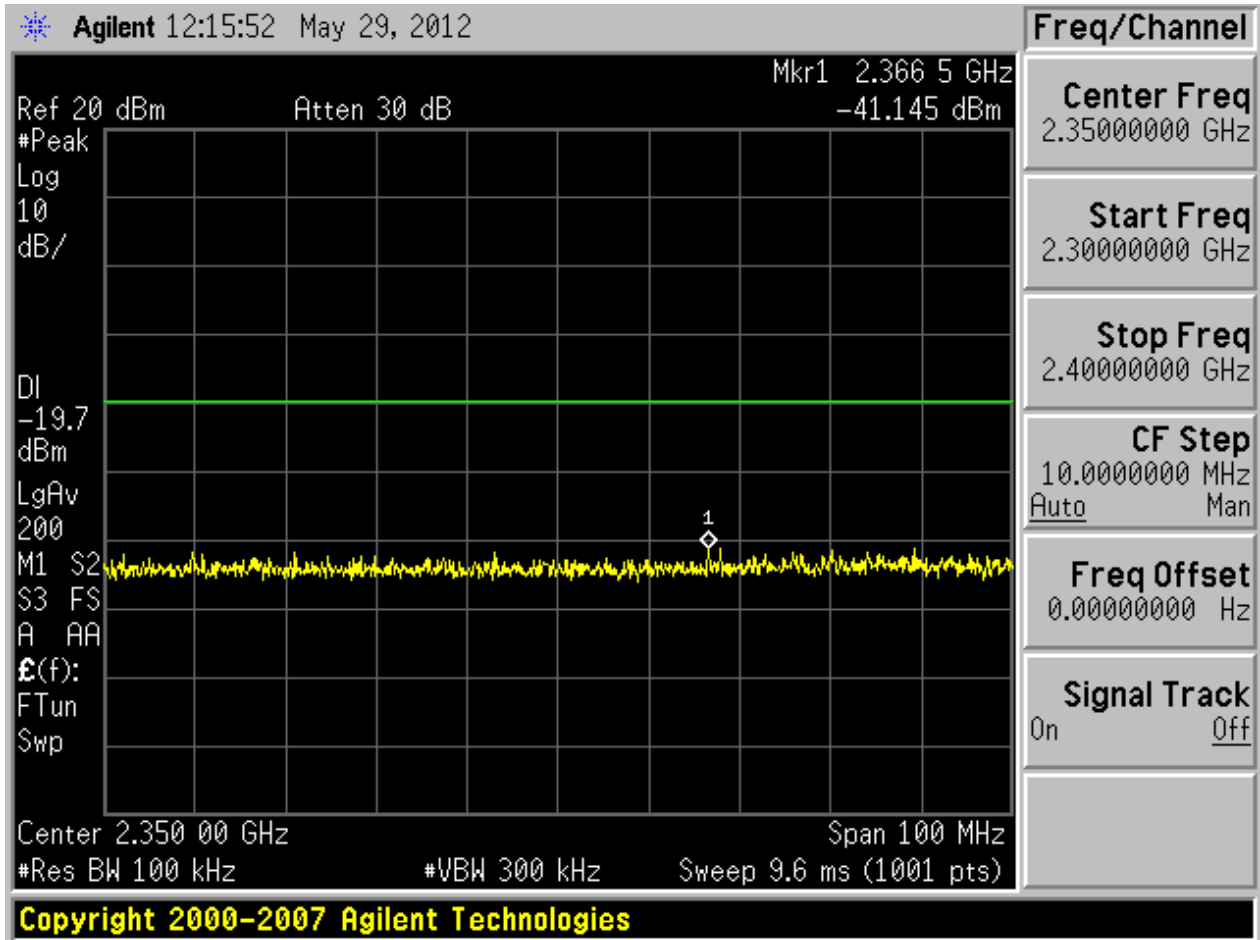


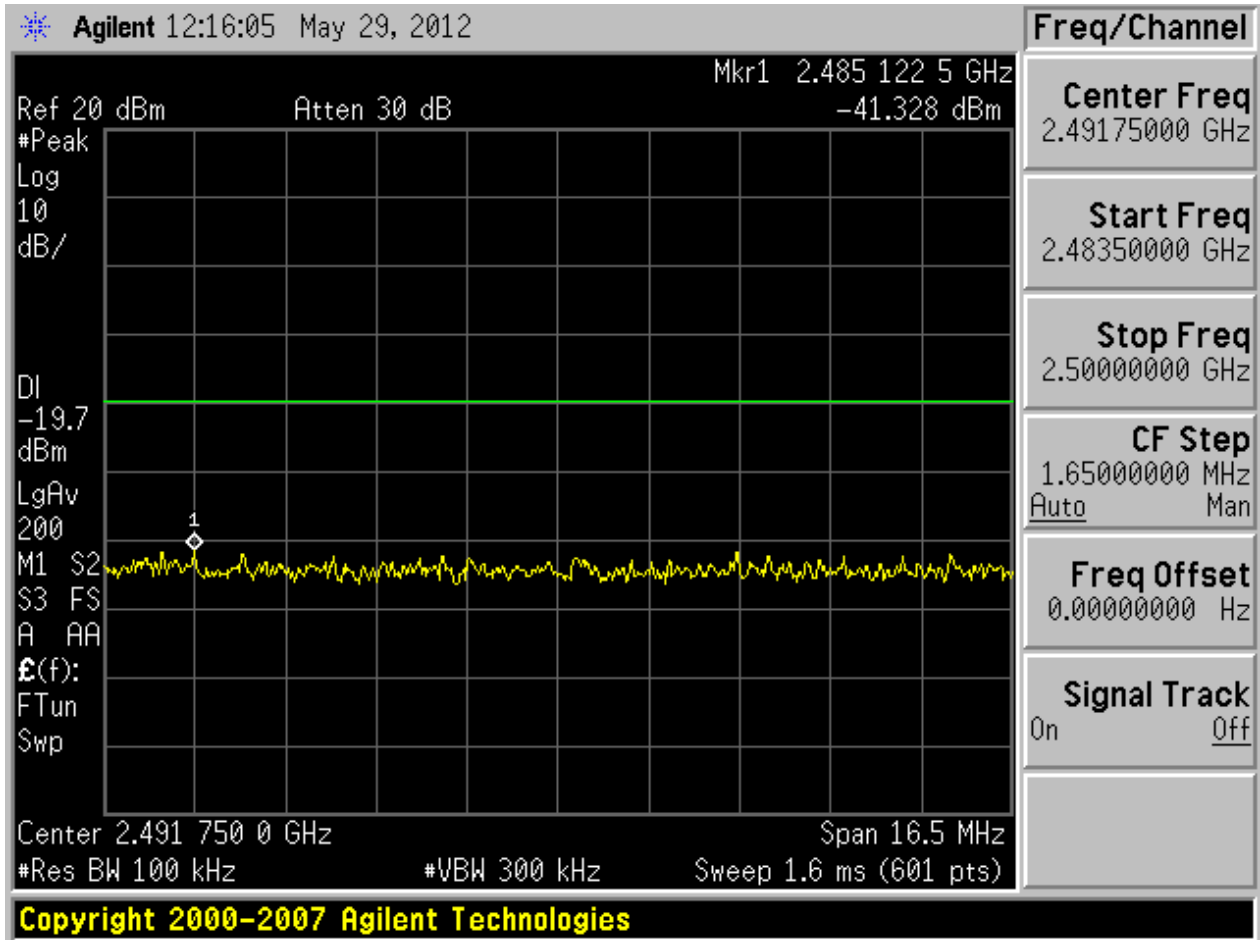
### 2.17.2 Puw



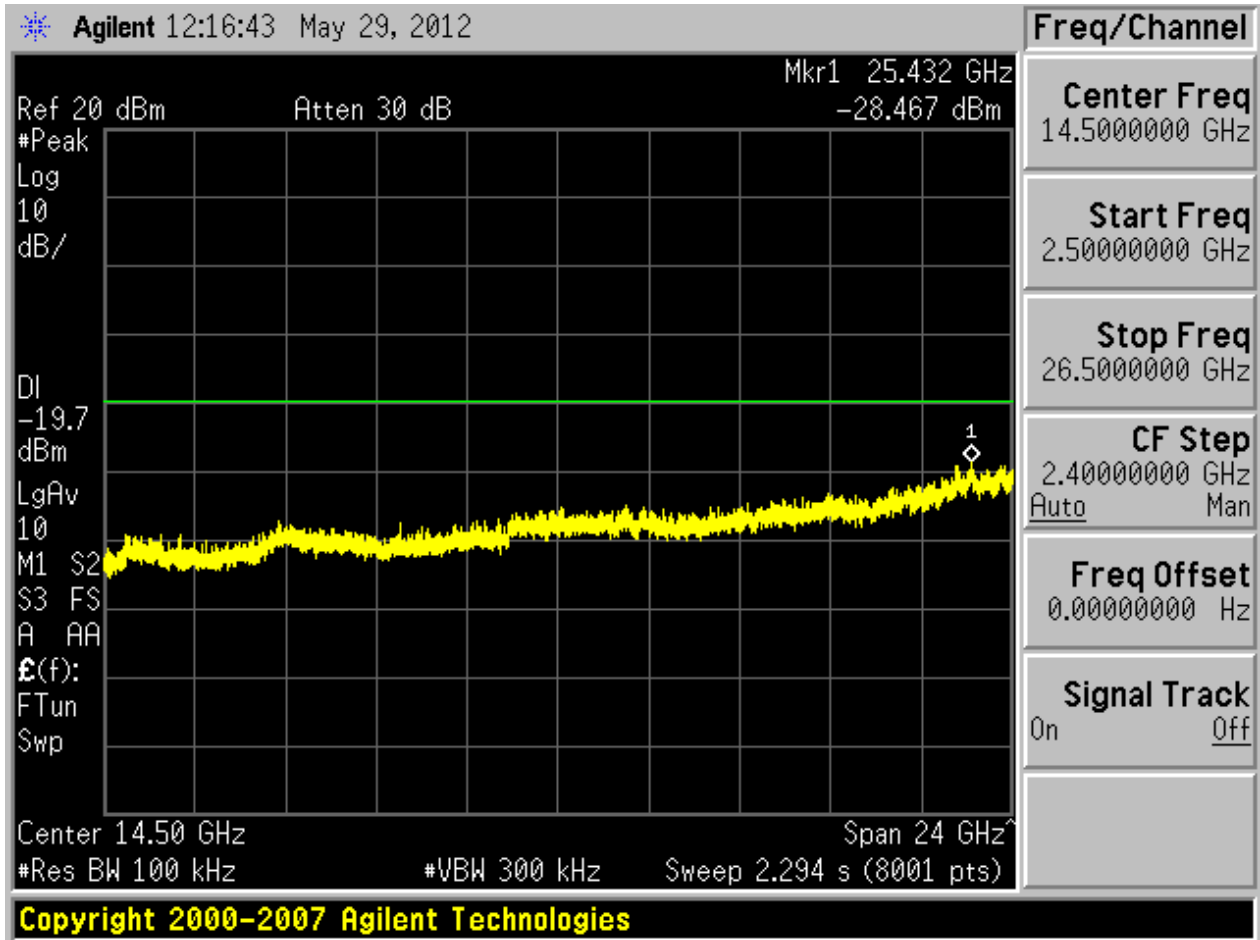






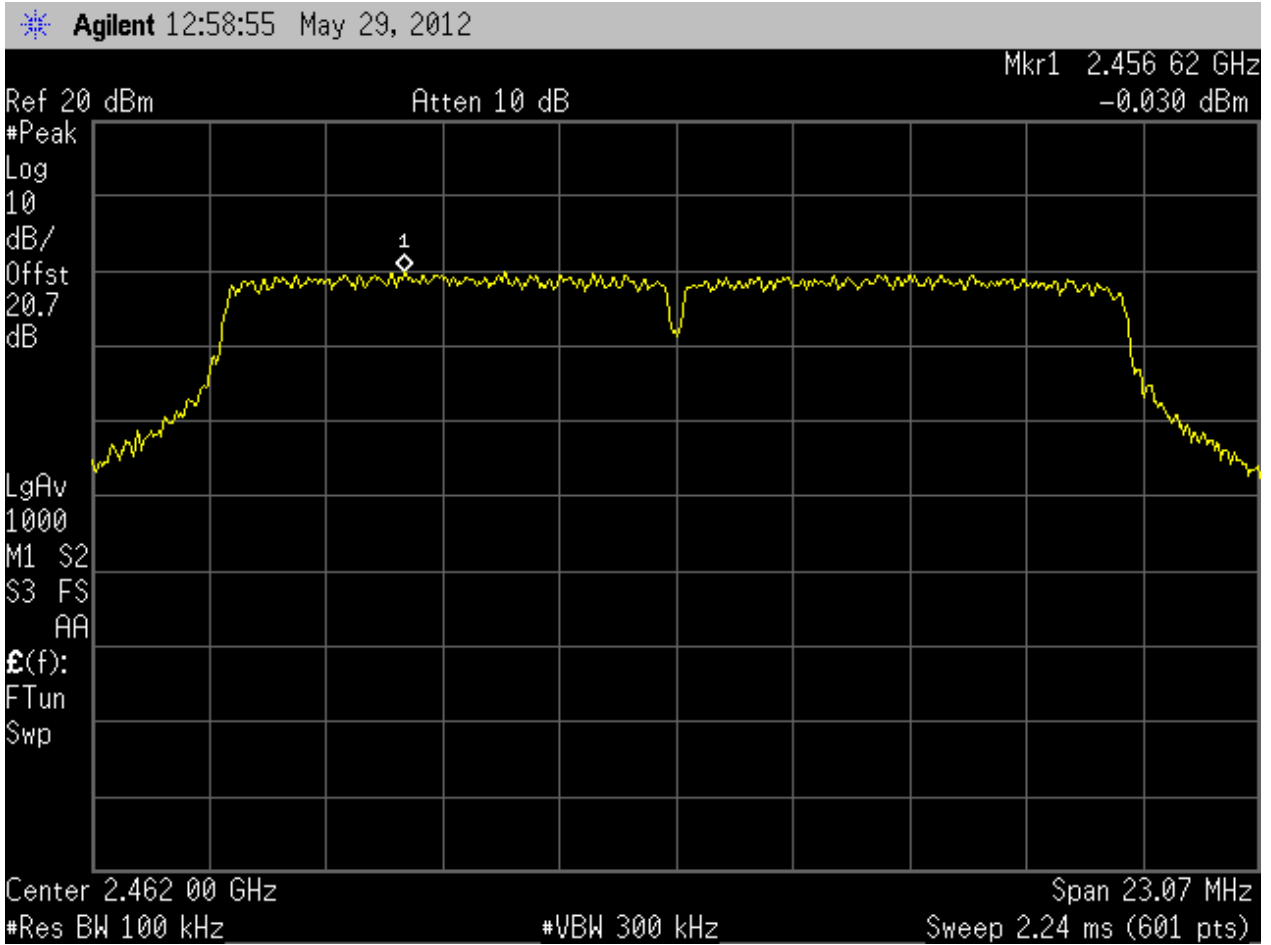






2.1811N20/0\_T@2

2.18.1 Pref



### 2.18.2 Puw

