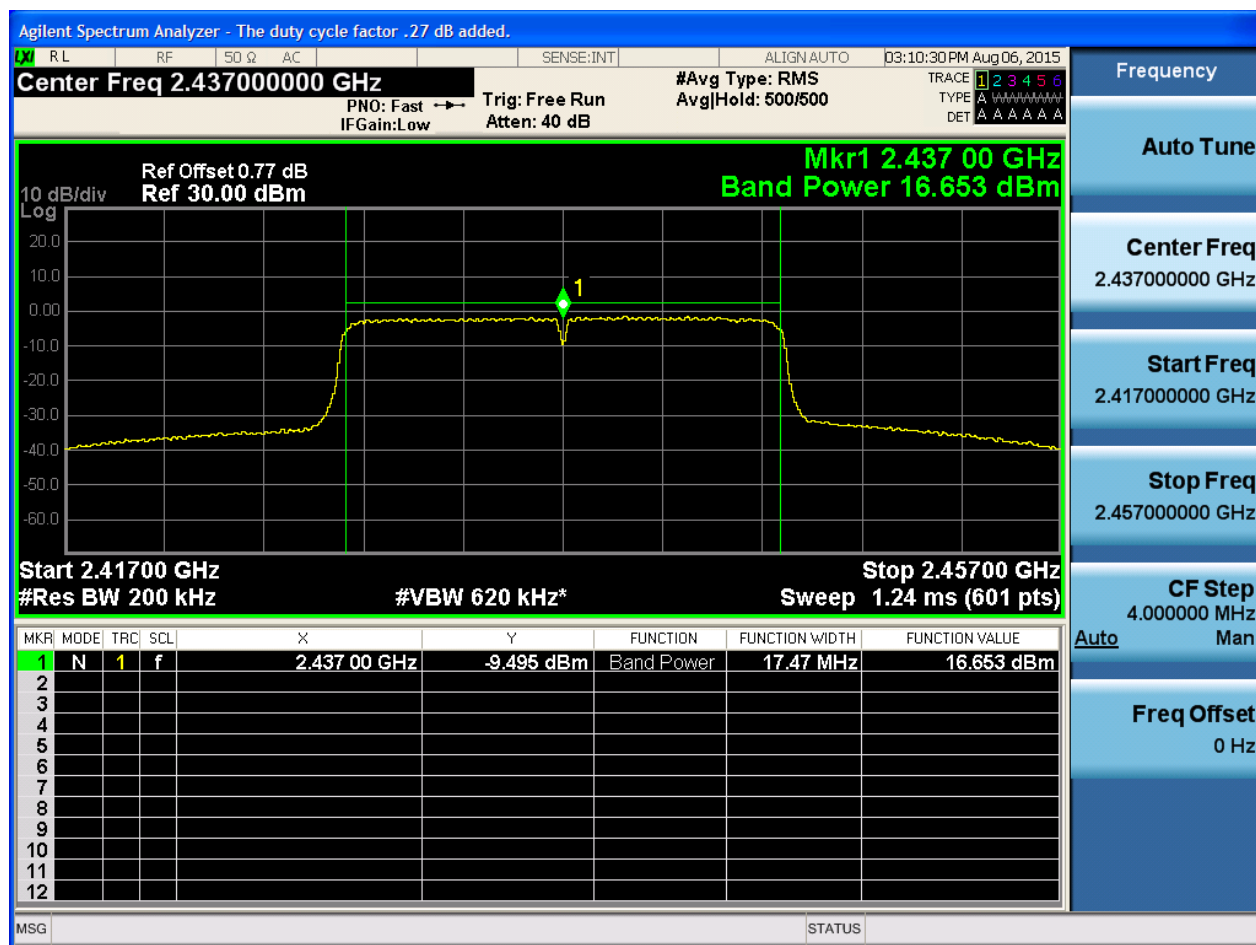


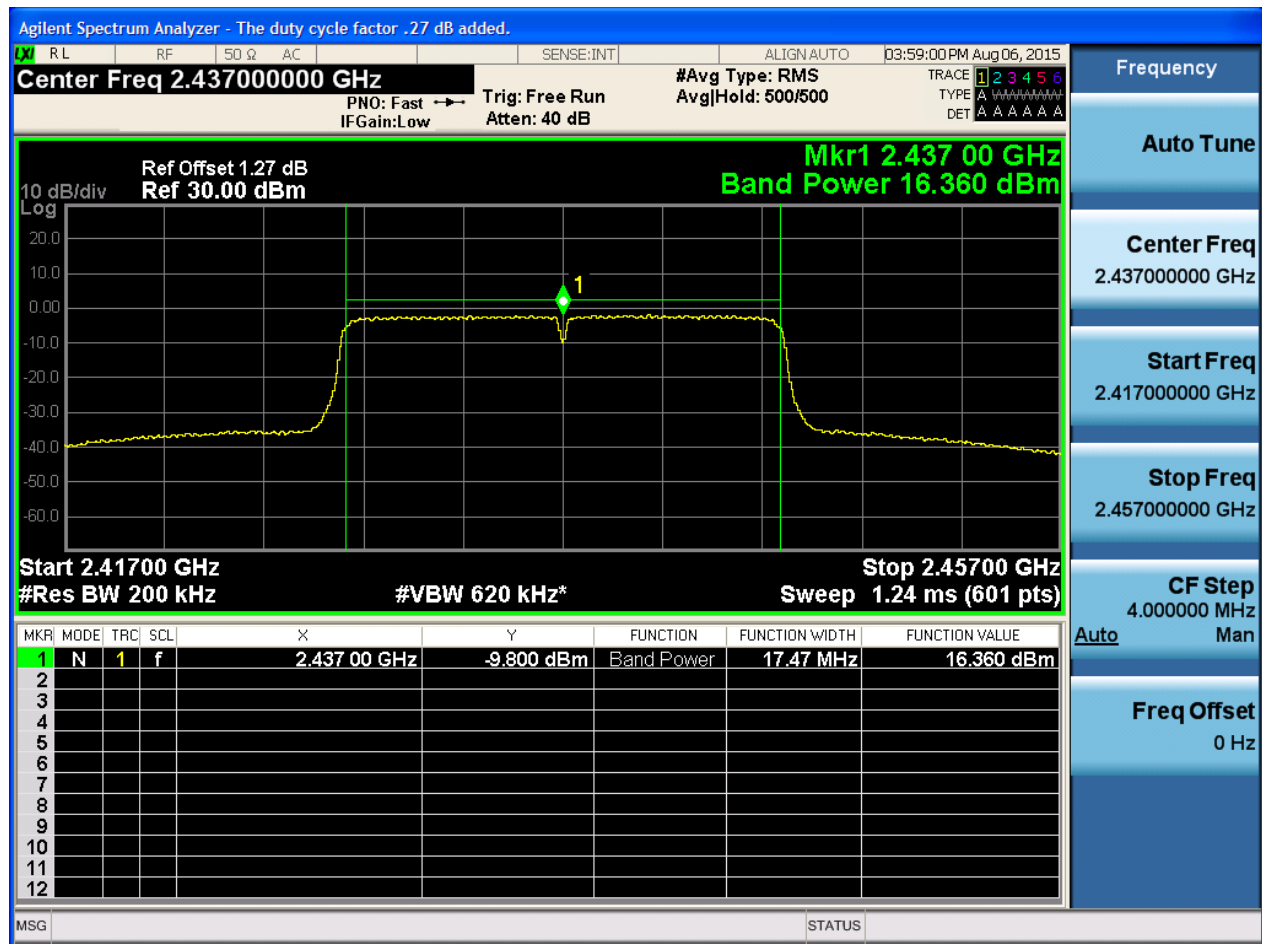


2.16 11N20m_M@Ant 2



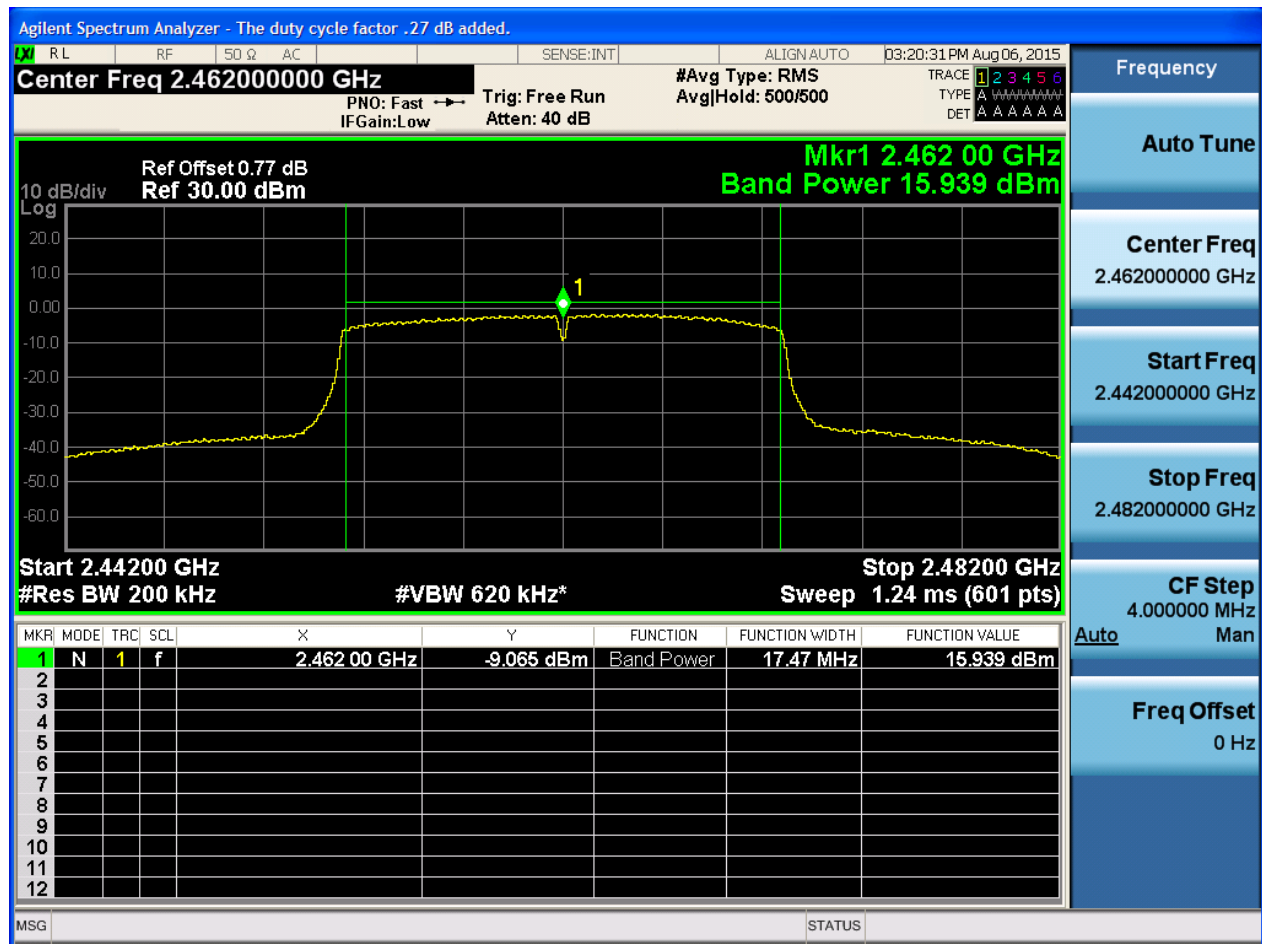


2.15 11N20m_M@Ant 1



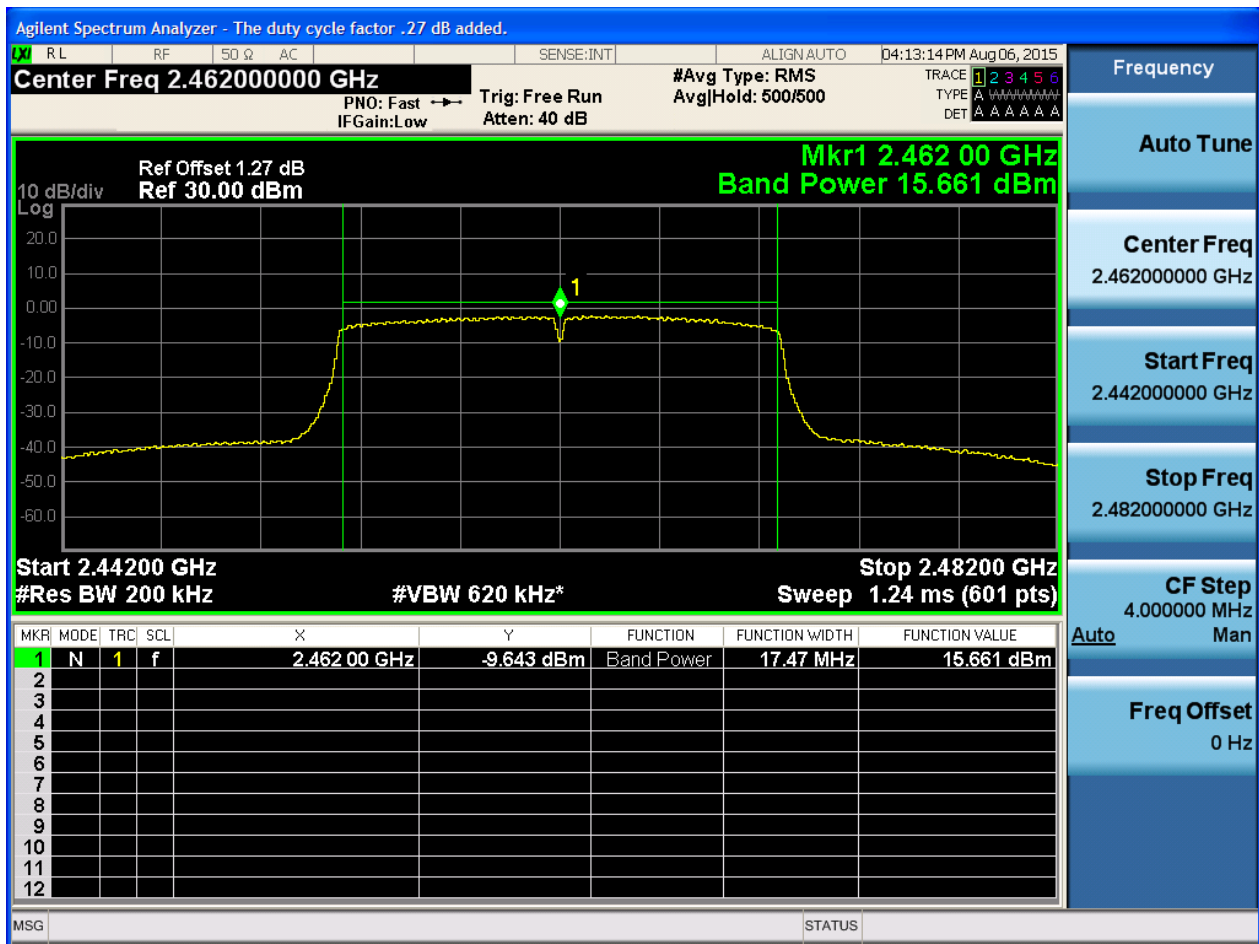


2.18 11N20m_H@Ant 2



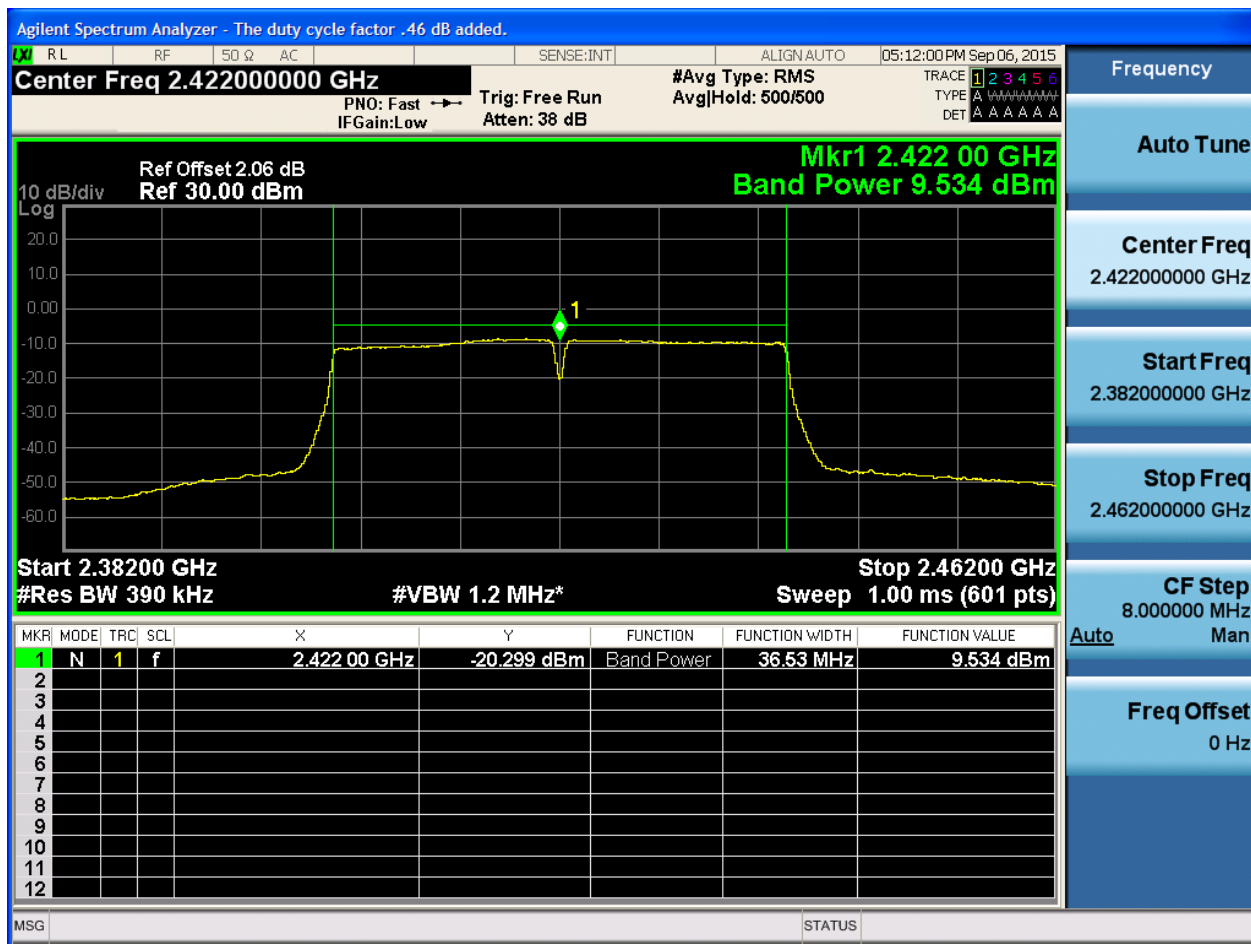


2.17 11N20m_H@Ant 1



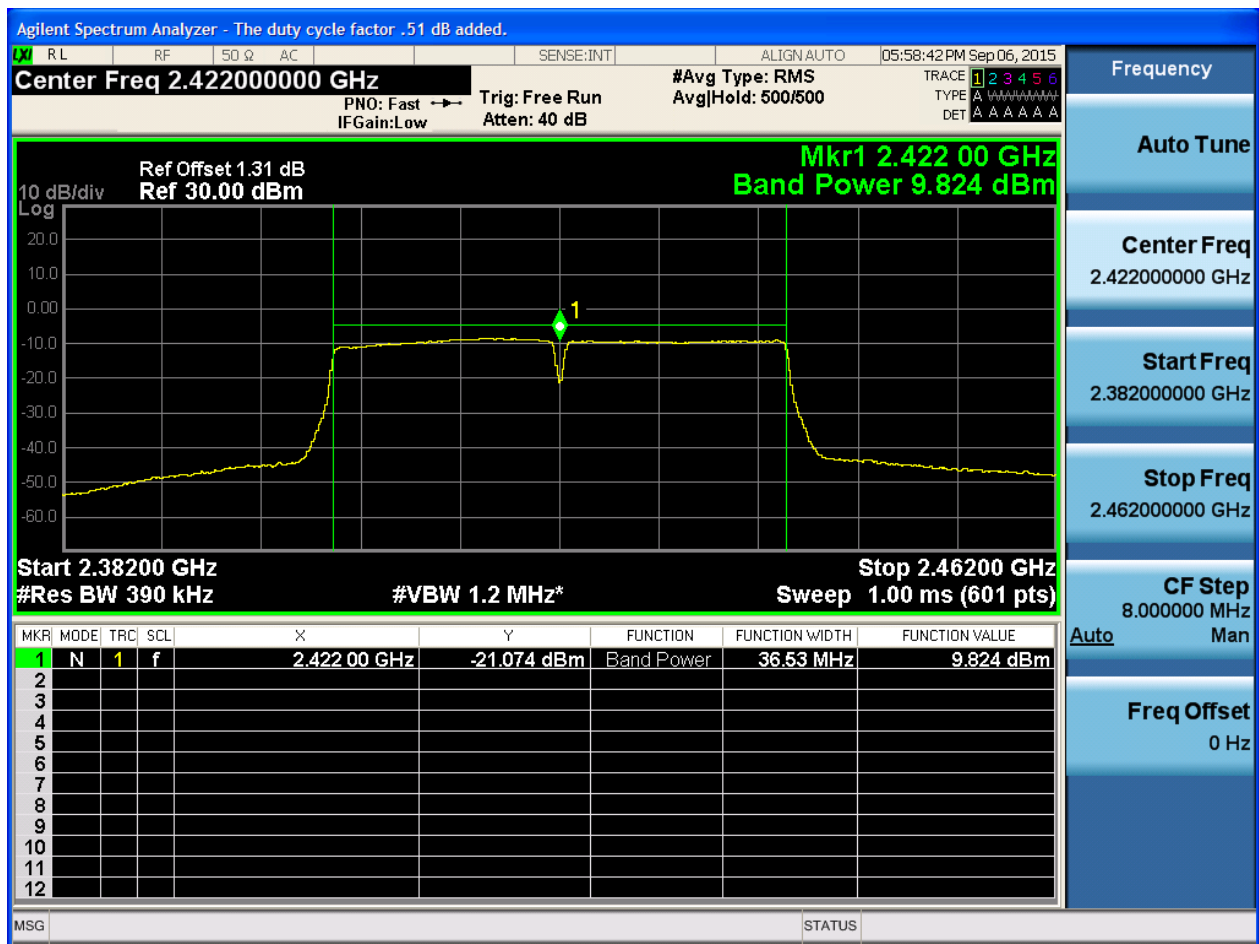


2.19 11N40_L@Ant 1



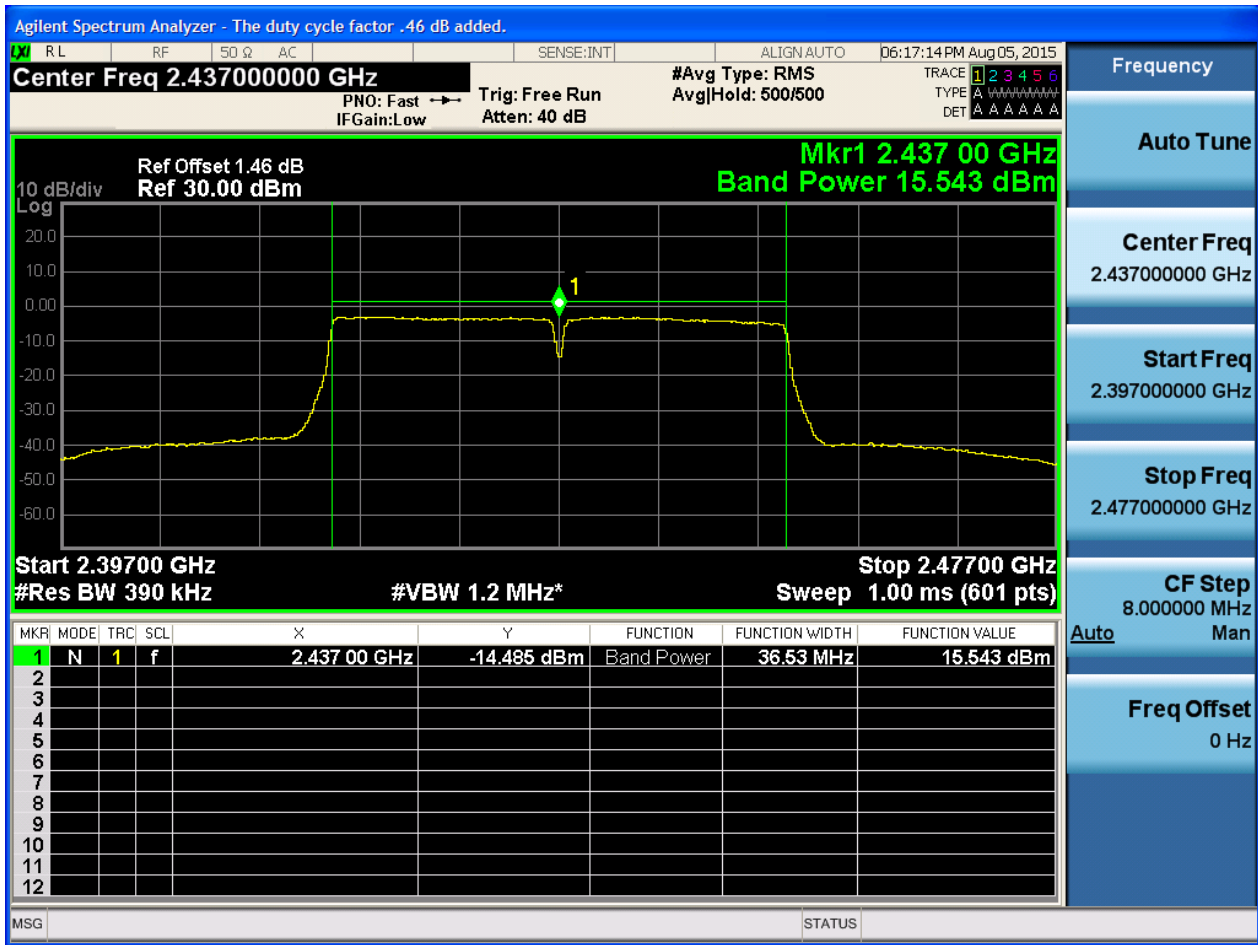


2.20 11N40_L@Ant 2



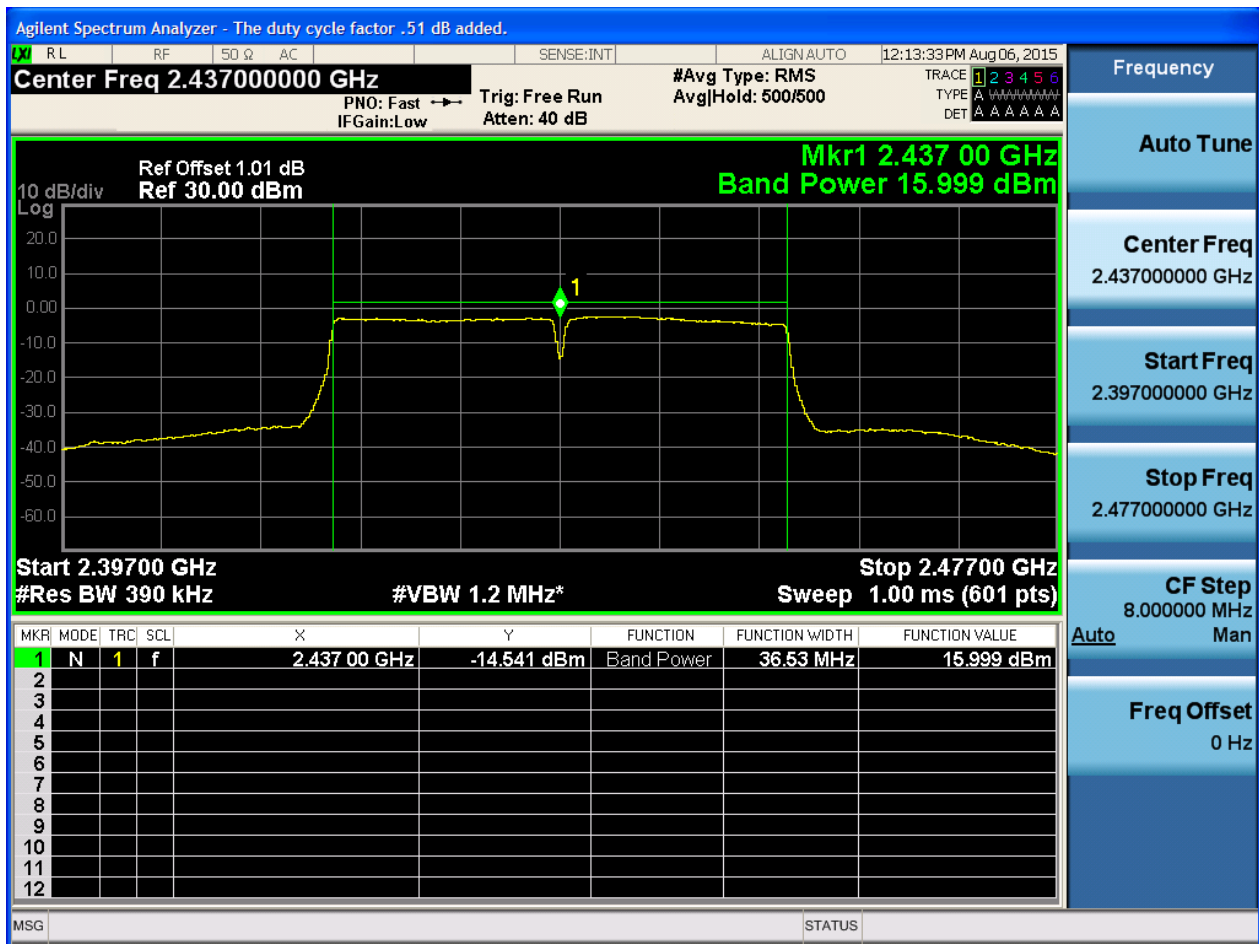


2.21 11N40_M@Ant 1





2.22 11N40_M@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .46 dB added.

Center Freq 2.45200000 GHz

#Avg Type: RMS
Avg/Hold: 500/500

Ref Offset 2.06 dB
Ref 30.00 dBm

Mkr1 2.452 00 GHz
Band Power 9.483 dBm

Start 2.41200 GHz
#Res BW 390 kHz

Stop 2.49200 GHz
Sweep 1.00 ms (601 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.452 00 GHz	-21.077 dBm	Band Power	36.53 MHz	9.483 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency

Auto Tune

Center Freq
2.45200000 GHz

Start Freq
2.41200000 GHz

Stop Freq
2.49200000 GHz

CF Step
8.000000 MHz
Man

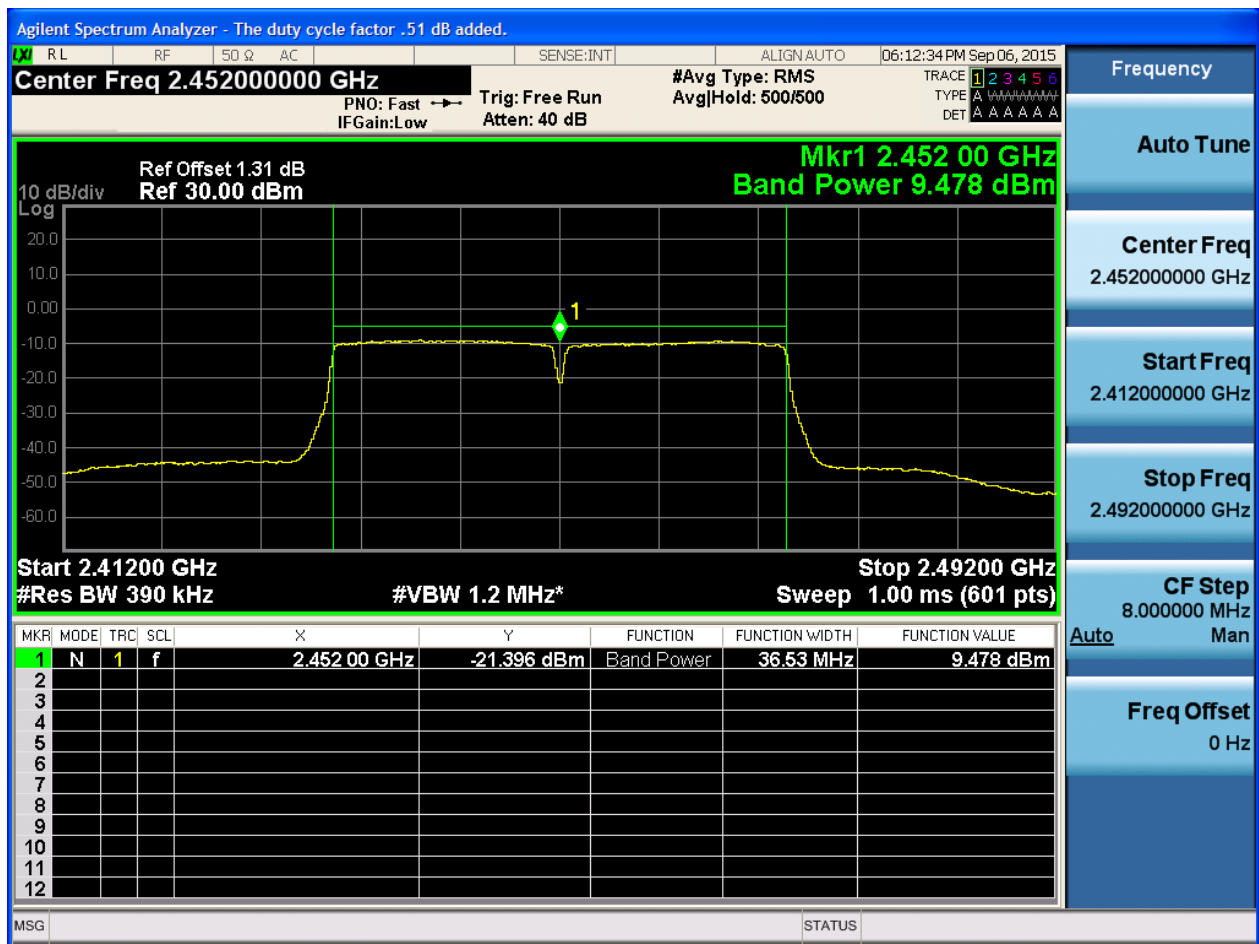
Freq Offset
0 Hz

MSG

STATUS

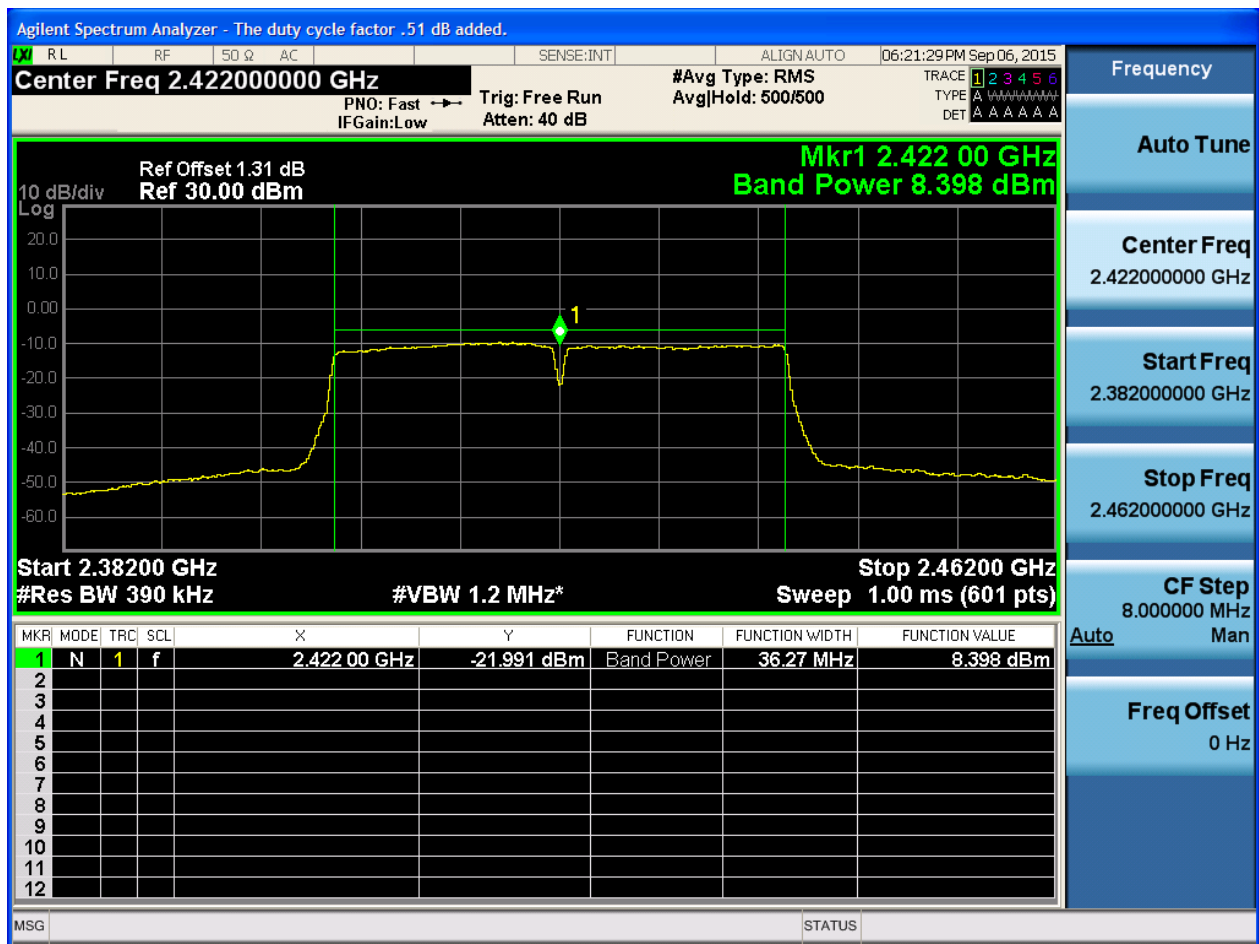


2.24 11N40_H@Ant 2



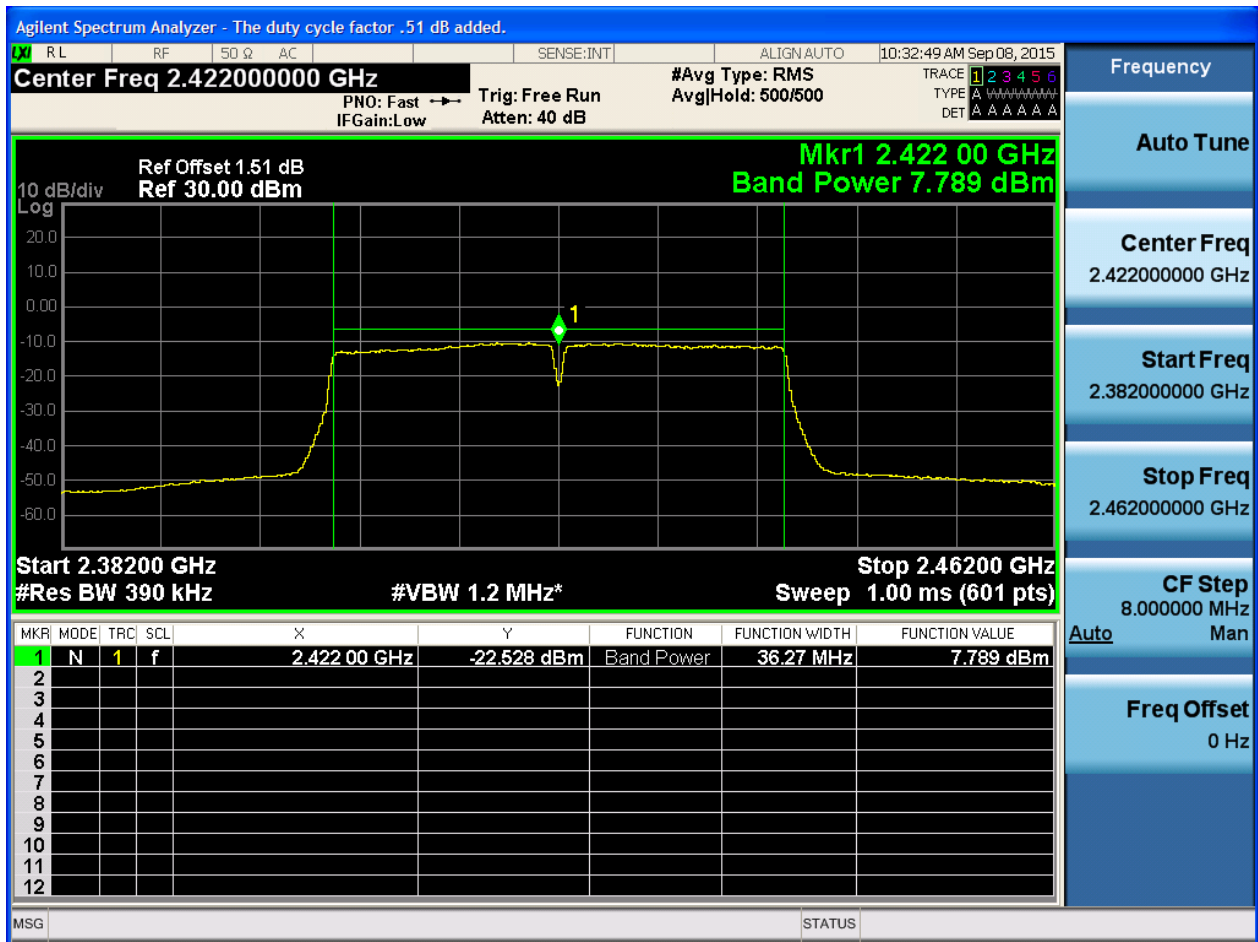


2.32 11N40m_L@Ant 2



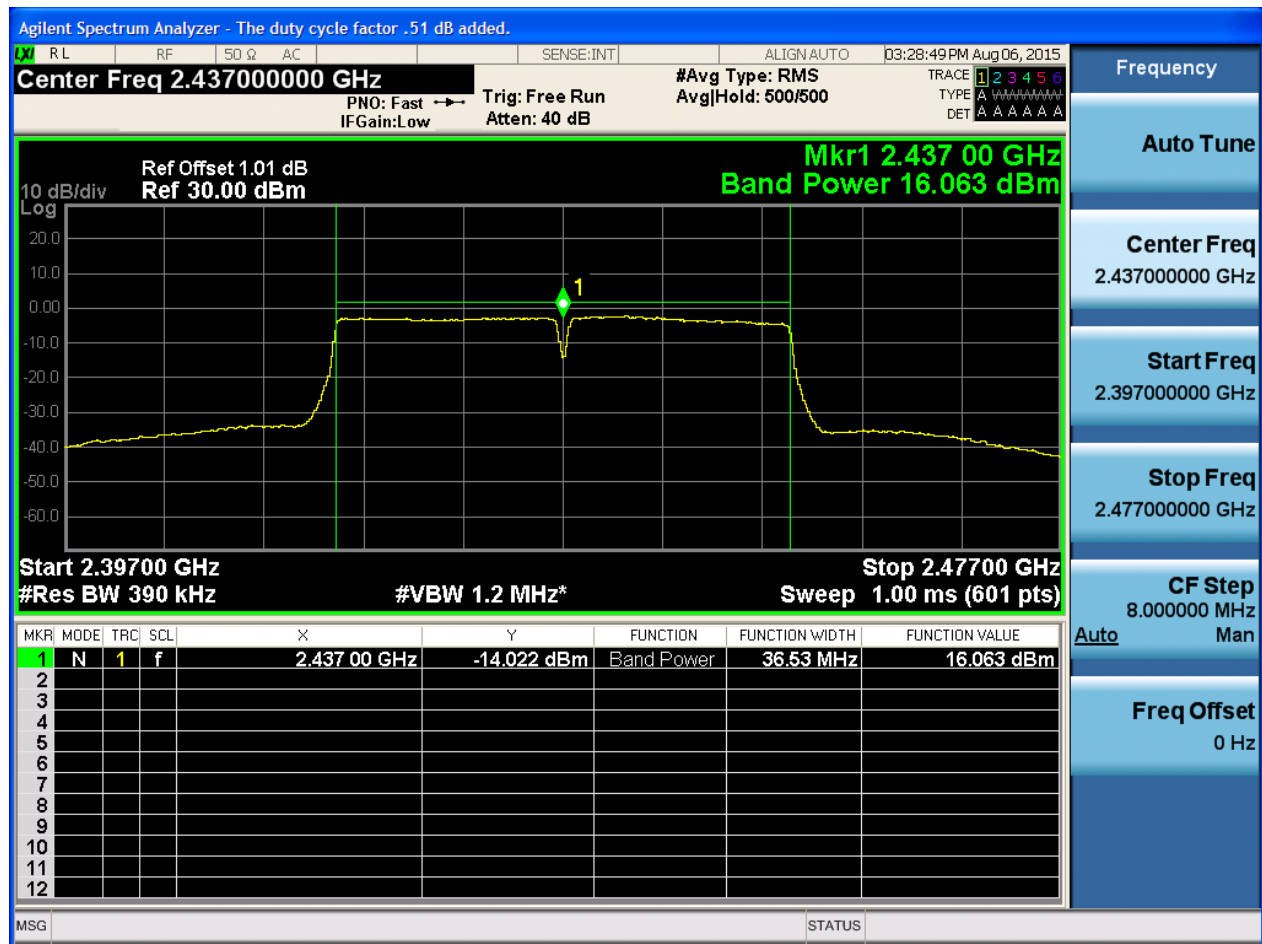


2.31 11N40m_L@Ant 1



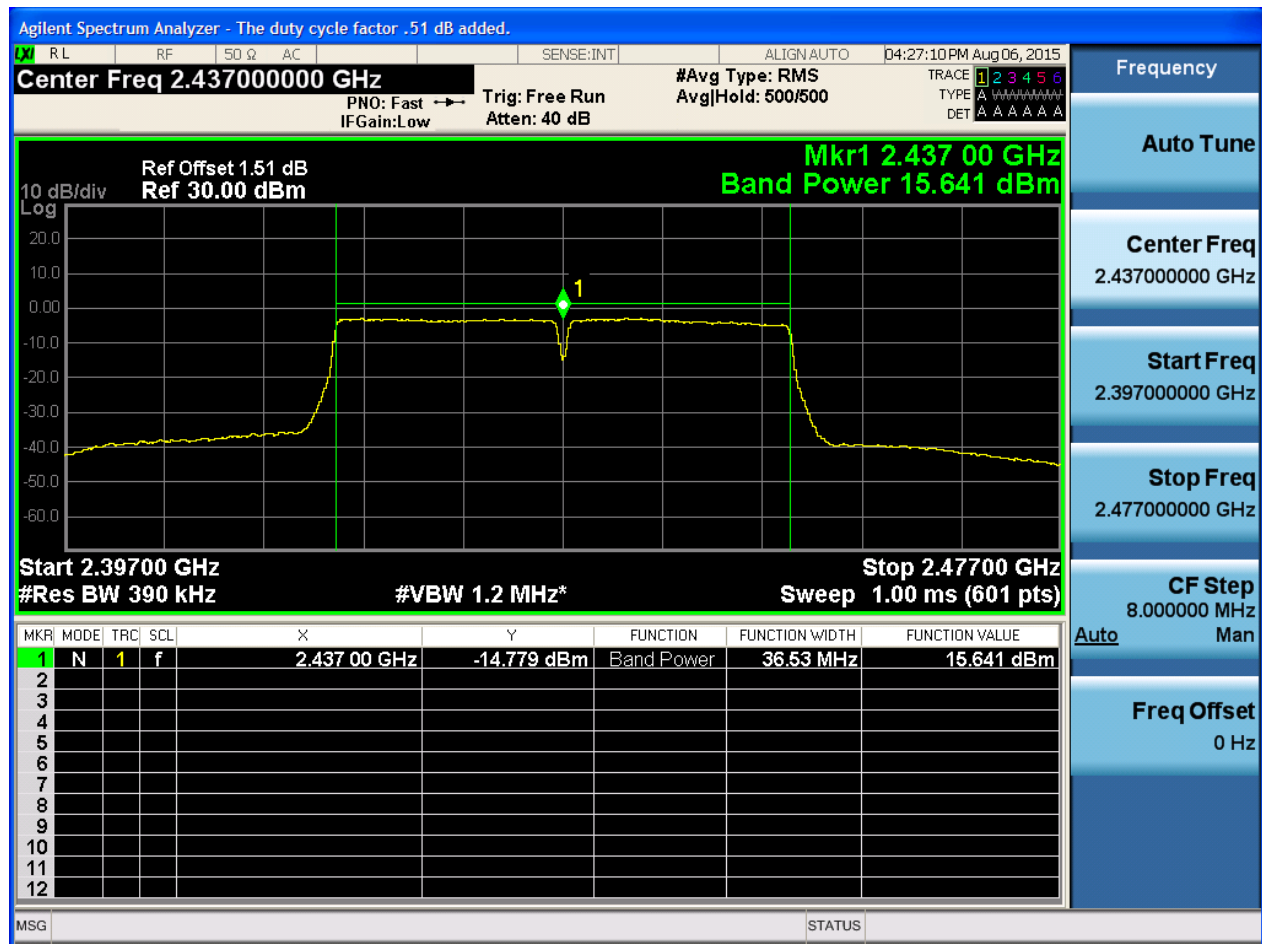


2.34 11N40m_M@Ant 2



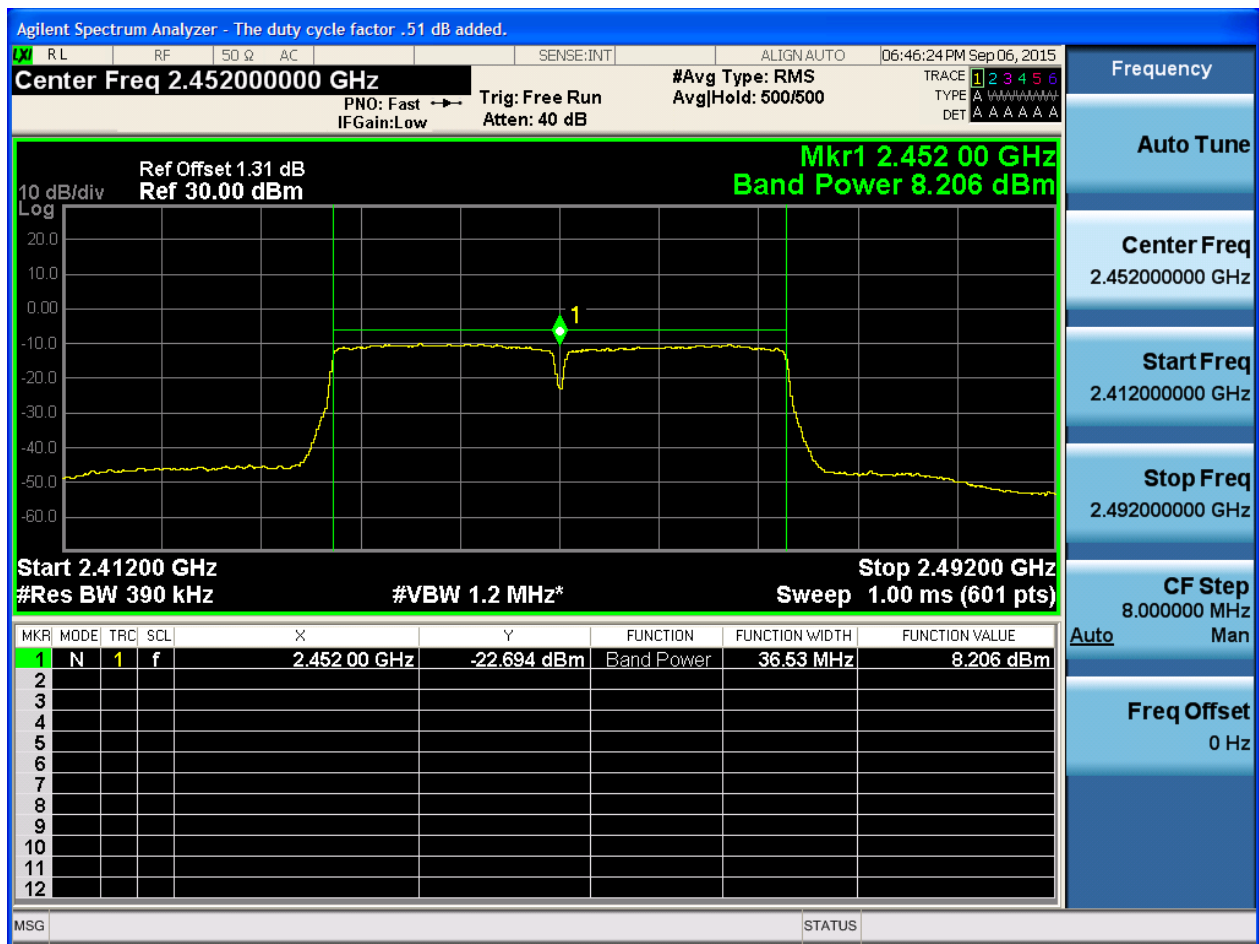


2.33 11N40m_M@Ant 1



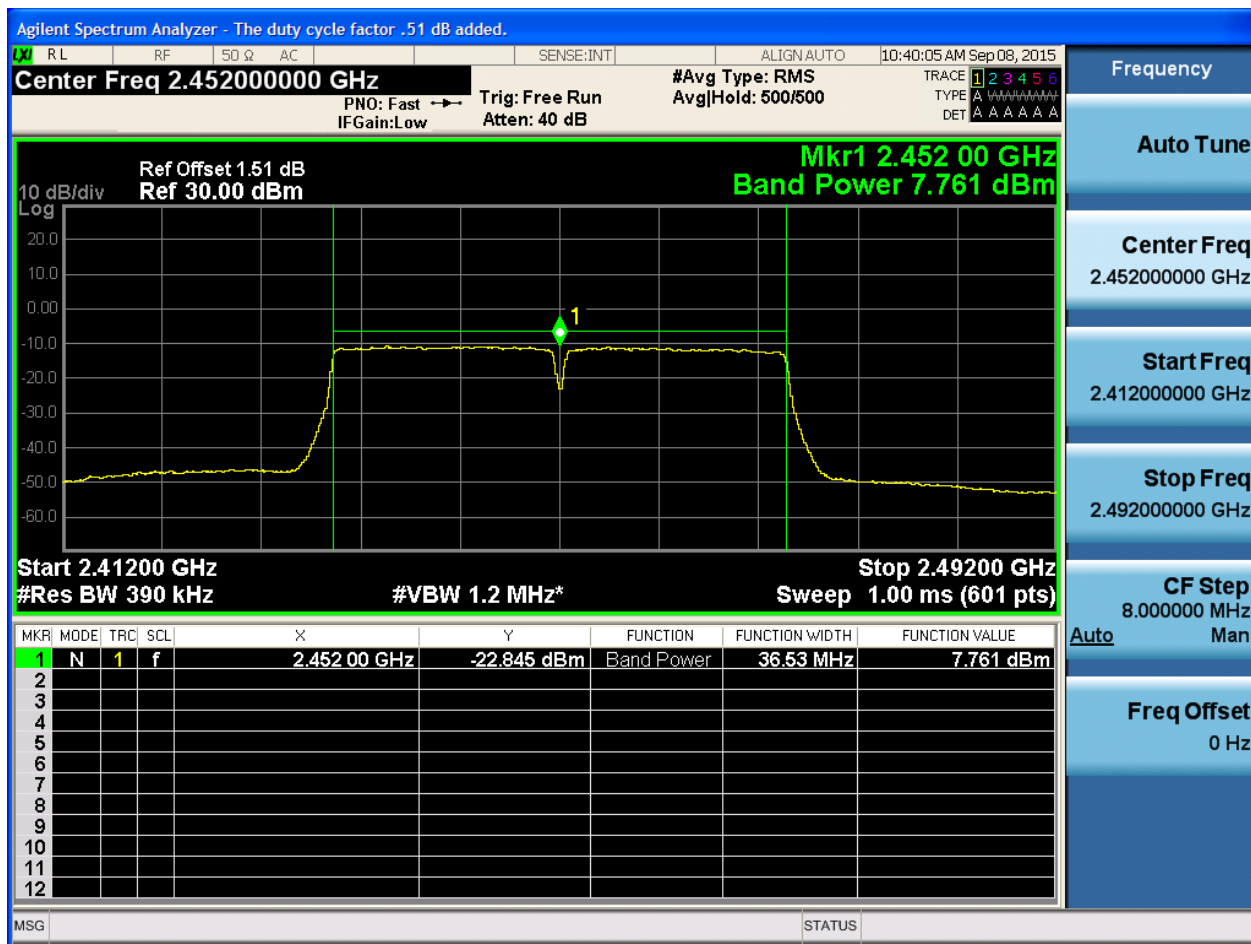


2.36 11N40m_H@Ant 2





2.35 11N40m_H@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .22 dB added.

Center Freq 2.41200000 GHz #Avg Type: Pwr(RMS) Avg/Hold: 500/500

Ref Offset 1.22 dB Ref 30.00 dBm

Mkr1 2.412 00 GHz Band Power 15.000 dBm

Start 2.39200 GHz Stop 2.43200 GHz

#Res BW 200 kHz #VBW 620 kHz* Sweep 1.24 ms (601 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.412 00 GHz	-10.559 dBm	Band Power	16.53 MHz	15.000 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency

Auto Tune

Center Freq 2.41200000 GHz

Start Freq 2.39200000 GHz

Stop Freq 2.43200000 GHz

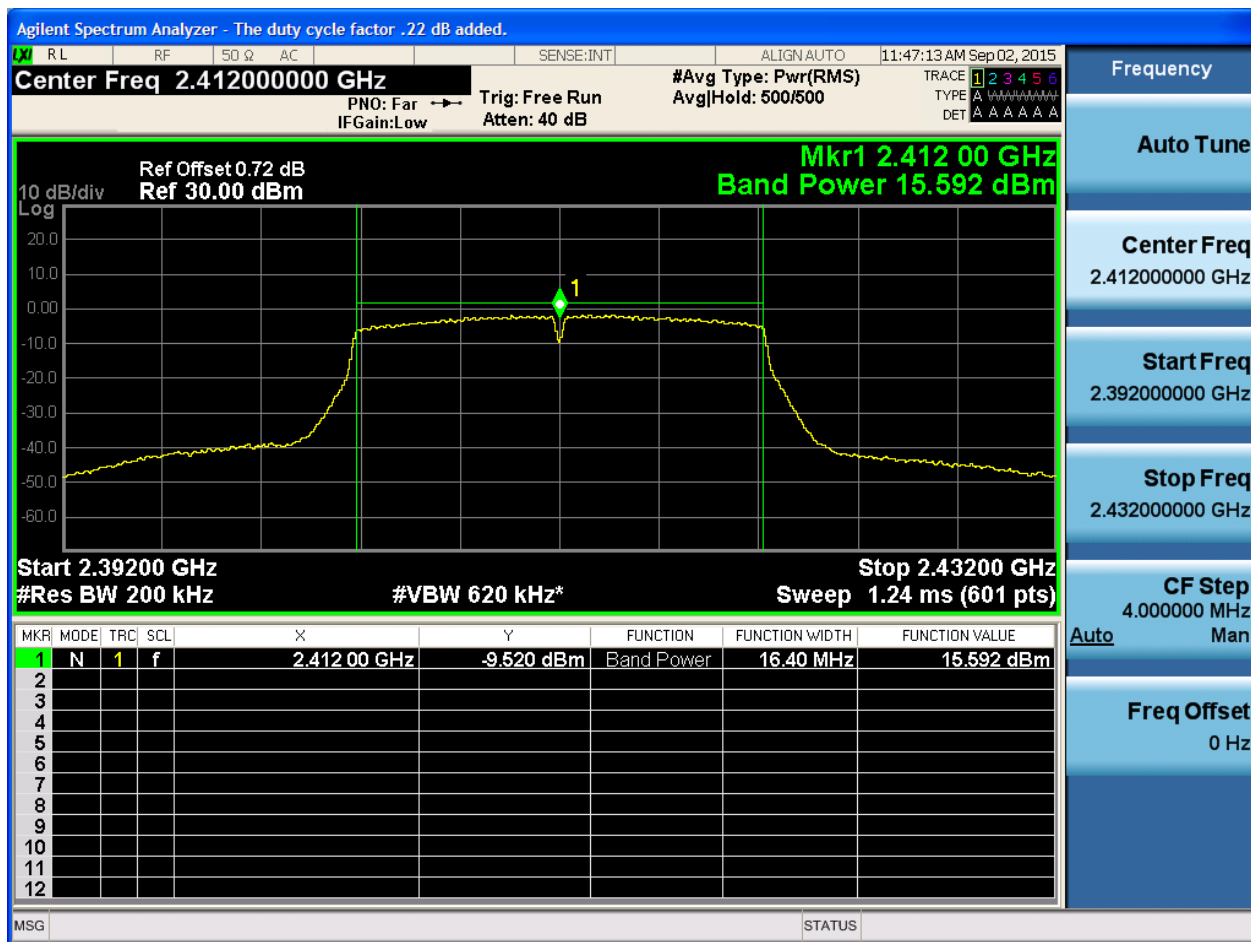
CF Step 4.000000 MHz Man

Freq Offset 0 Hz

MSG STATUS

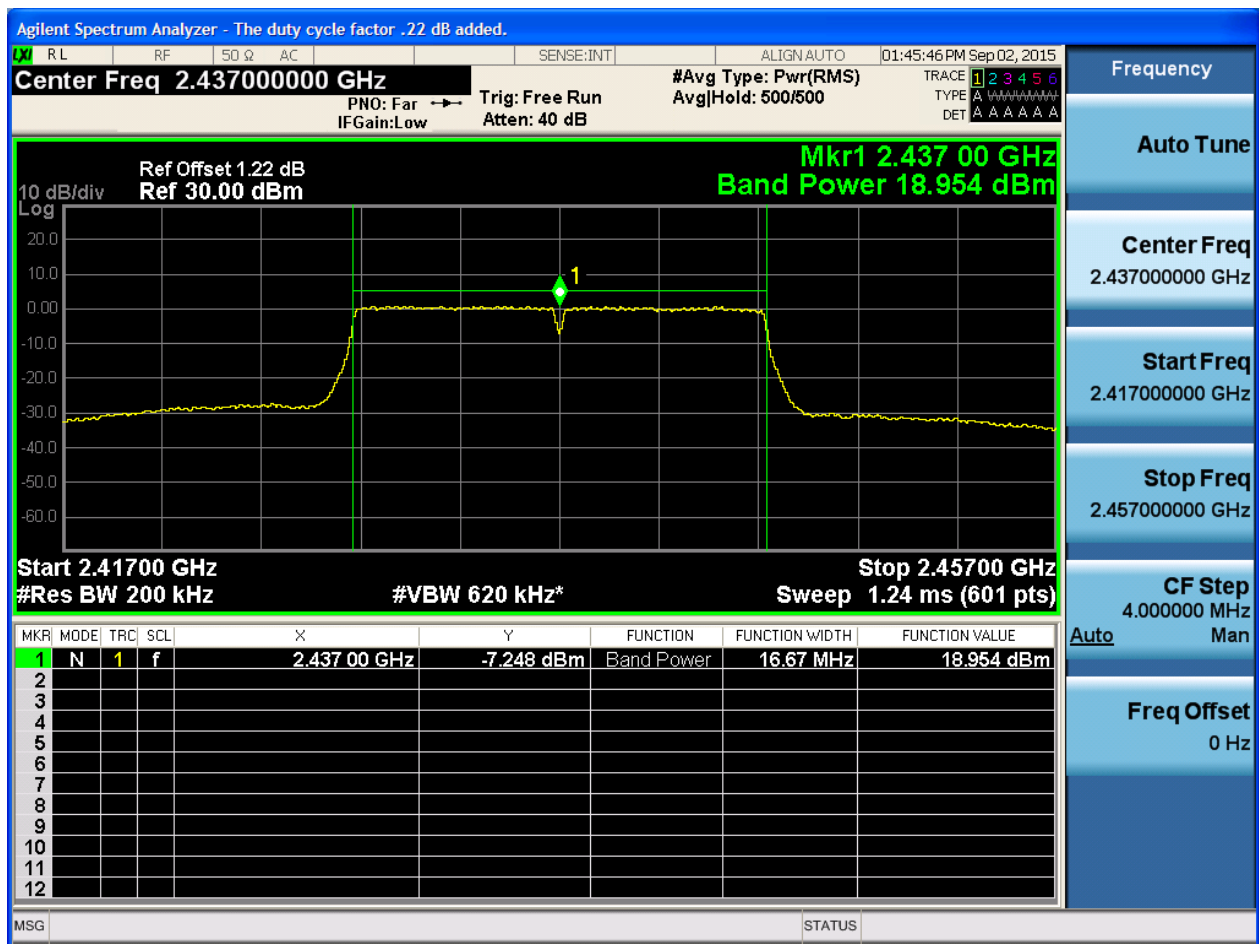


2.37 11G CDD_L@Ant 2



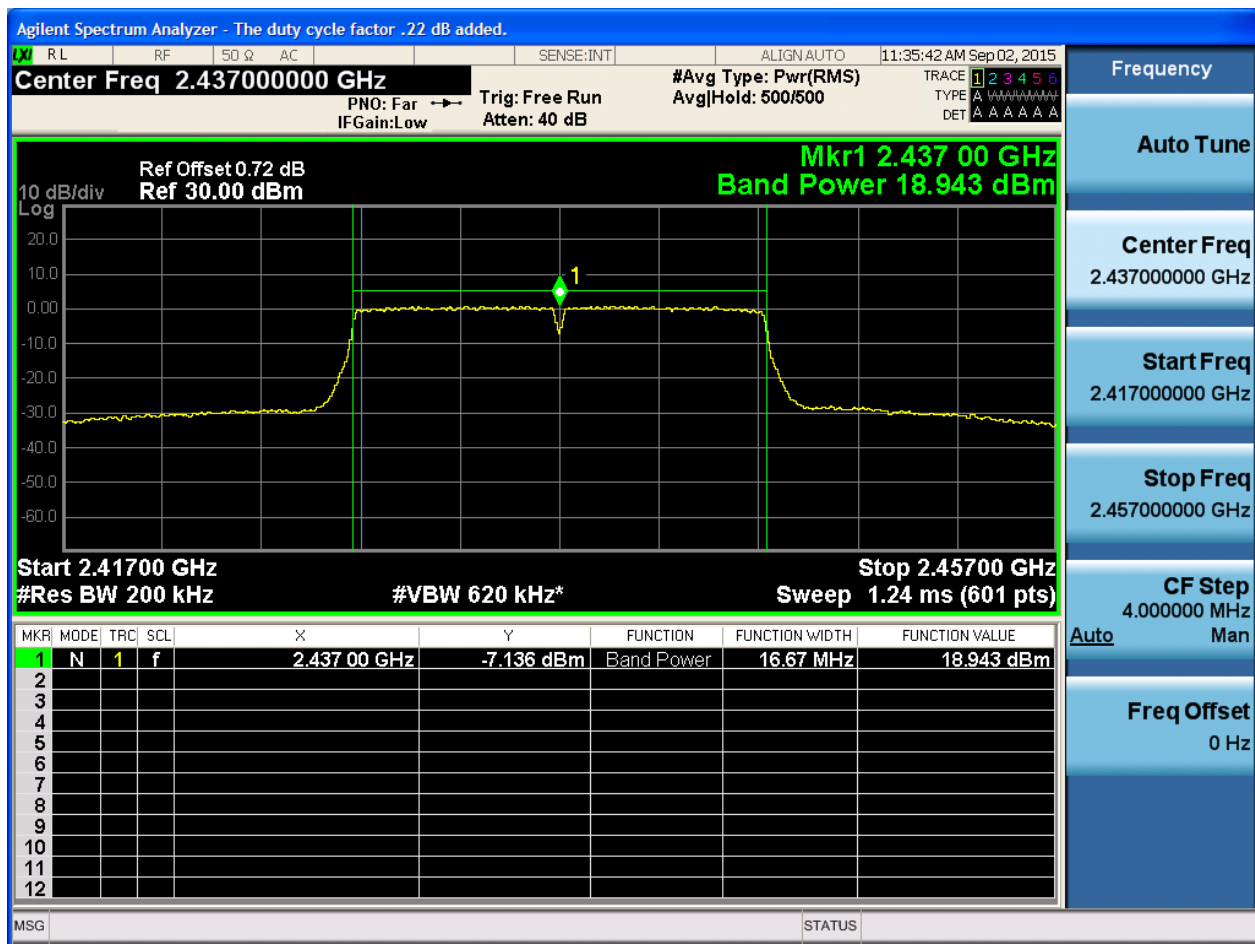


2.38 11G CDD_M@Ant 1





2.39 11G CDD_M@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .22 dB added.

Center Freq 2.46200000 GHz

Ref Offset 1.22 dB
Ref 30.00 dBm

Mkr1 2.462 00 GHz
Band Power 15.070 dBm

Start 2.44200 GHz
#Res BW 200 kHz

Stop 2.48200 GHz
Sweep 1.24 ms (601 pts)

#VBW 620 kHz*

10 dB/div
Log

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.462 00 GHz	-10.256 dBm	Band Power	16.53 MHz	15.070 dBm
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.46200000 GHz

Start Freq
2.44200000 GHz

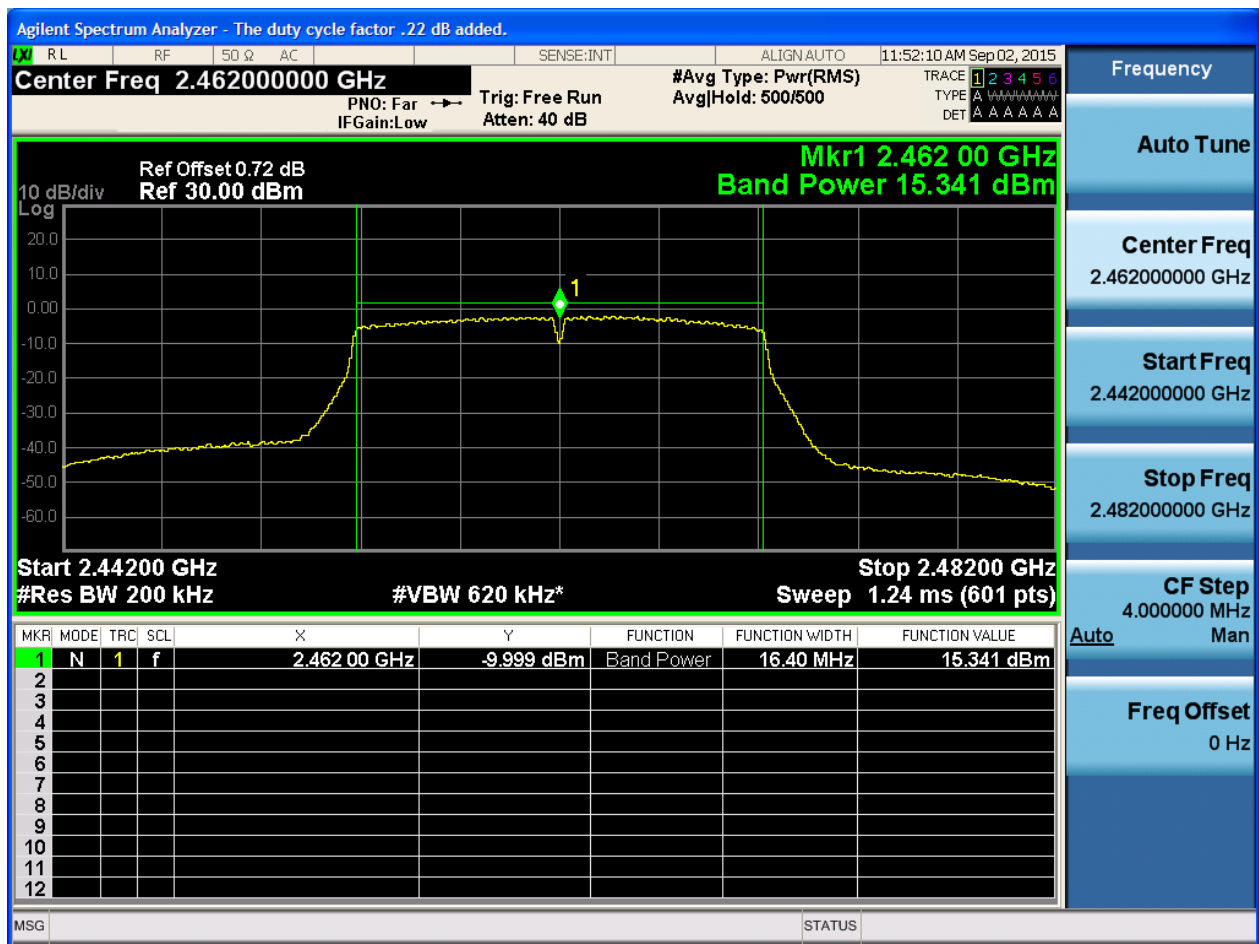
Stop Freq
2.48200000 GHz

CF Step
4.000000 MHz

Freq Offset
0 Hz



2.41 11G CDD_H@Ant 2



Appendix E: Maximum Power Spectral Density Level

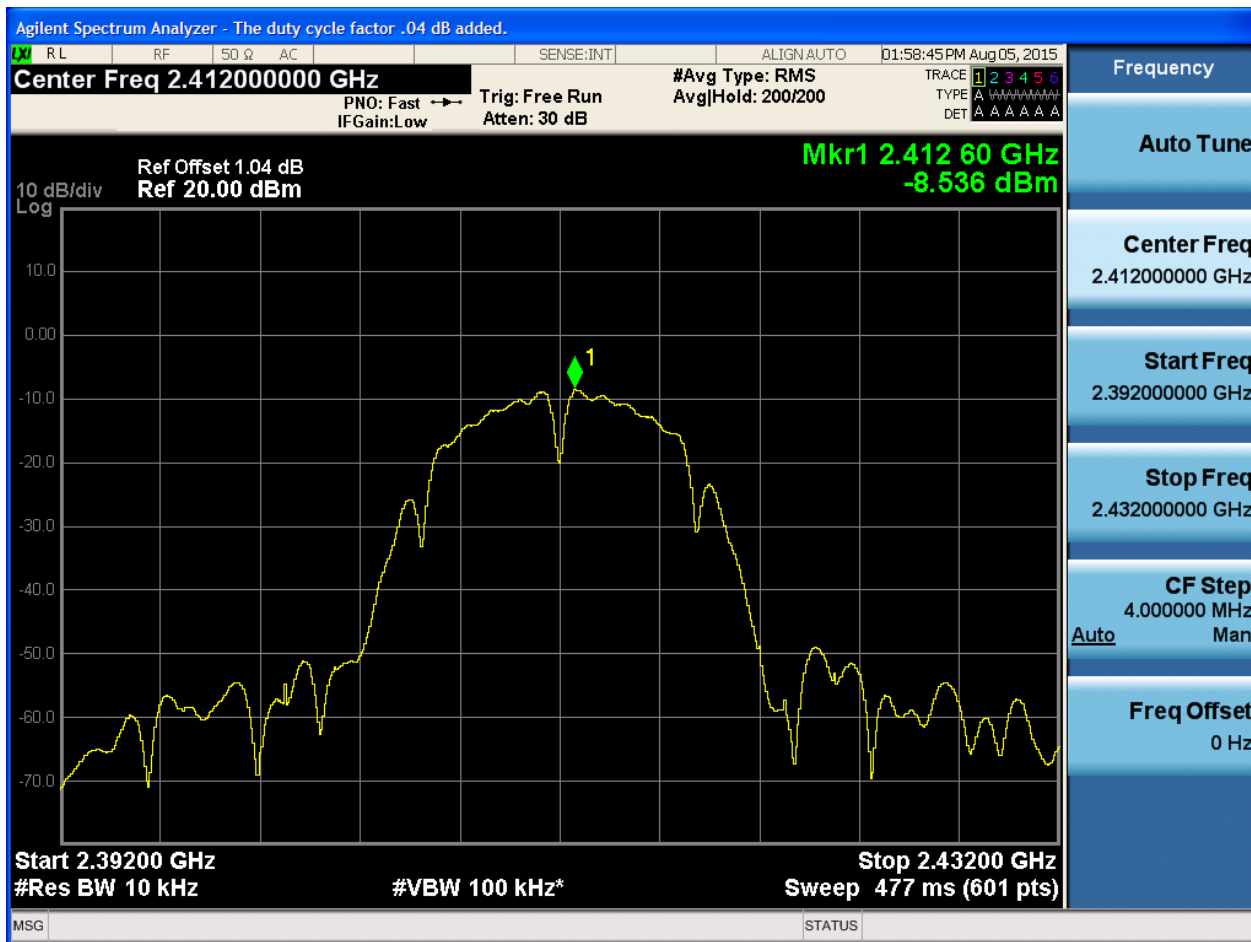
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11B	L	2412	Ant 1	-8.54	pass
11B	L	2412	Ant 2	-7.91	pass
11B	M	2437	Ant 1	-7.82	pass
11B	M	2437	Ant 2	-8.13	pass
11B	H	2462	Ant 1	-8.24	pass
11B	H	2462	Ant 2	-7.94	pass
11G	L	2412	Ant 1	-13.10	pass
11G	L	2412	Ant 2	-12.19	pass
11G	M	2437	Ant 1	-10.73	pass
11G	M	2437	Ant 2	-10.60	pass
11G	H	2462	Ant 1	-13.01	pass
11G	H	2462	Ant 2	-12.49	pass
11N20	L	2412	Ant 1	-13.82	pass
11N20	L	2412	Ant 2	-12.94	pass
11N20	M	2437	Ant 1	-12.46	pass
11N20	M	2437	Ant 2	-12.01	pass
11N20	H	2462	Ant 1	-13.24	pass
11N20	H	2462	Ant 2	-13.18	pass
11N20m	L	2412	Ant 2	-13.28	pass
11N20m	L	2412	Ant 1	-13.72	pass
11N20m	L	2412	SUM	-10.48	pass
11N20m	M	2437	Ant 2	-13.23	pass
11N20m	M	2437	Ant 1	-13.78	pass
11N20m	M	2437	SUM	-10.49	pass
11N20m	H	2462	Ant 2	-13.51	pass
11N20m	H	2462	Ant 1	-14.14	pass
11N20m	H	2462	SUM	-10.80	pass
11N40	L	2422	Ant 1	-23.27	pass
11N40	L	2422	Ant 2	-23.25	pass
11N40	M	2437	Ant 1	-17.97	pass
11N40	M	2437	Ant 2	-17.15	pass
11N40	H	2452	Ant 1	-24.01	pass
11N40	H	2452	Ant 2	-23.85	pass
11N40m	L	2422	Ant 2	-24.32	pass
11N40m	L	2422	Ant 1	-24.79	pass
11N40m	L	2422	SUM	-21.54	pass

Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11N40m	M	2437	Ant 2	-17.06	pass
11N40m	M	2437	Ant 1	-17.69	pass
11N40m	M	2437	SUM	-14.35	pass
11N40m	H	2452	Ant 2	-24.87	pass
11N40m	H	2452	Ant 1	-25.41	pass
11N40m	H	2452	SUM	-22.12	pass
11G CDD	L	2412	Ant 1	-14.22	pass
11G CDD	L	2412	Ant 2	-13.18	pass
11G CDD	M	2437	Ant 1	-10.67	pass
11G CDD	M	2437	Ant 2	-10.66	pass
11G CDD	H	2462	Ant 1	-14.15	pass
11G CDD	H	2462	Ant 2	-13.61	pass

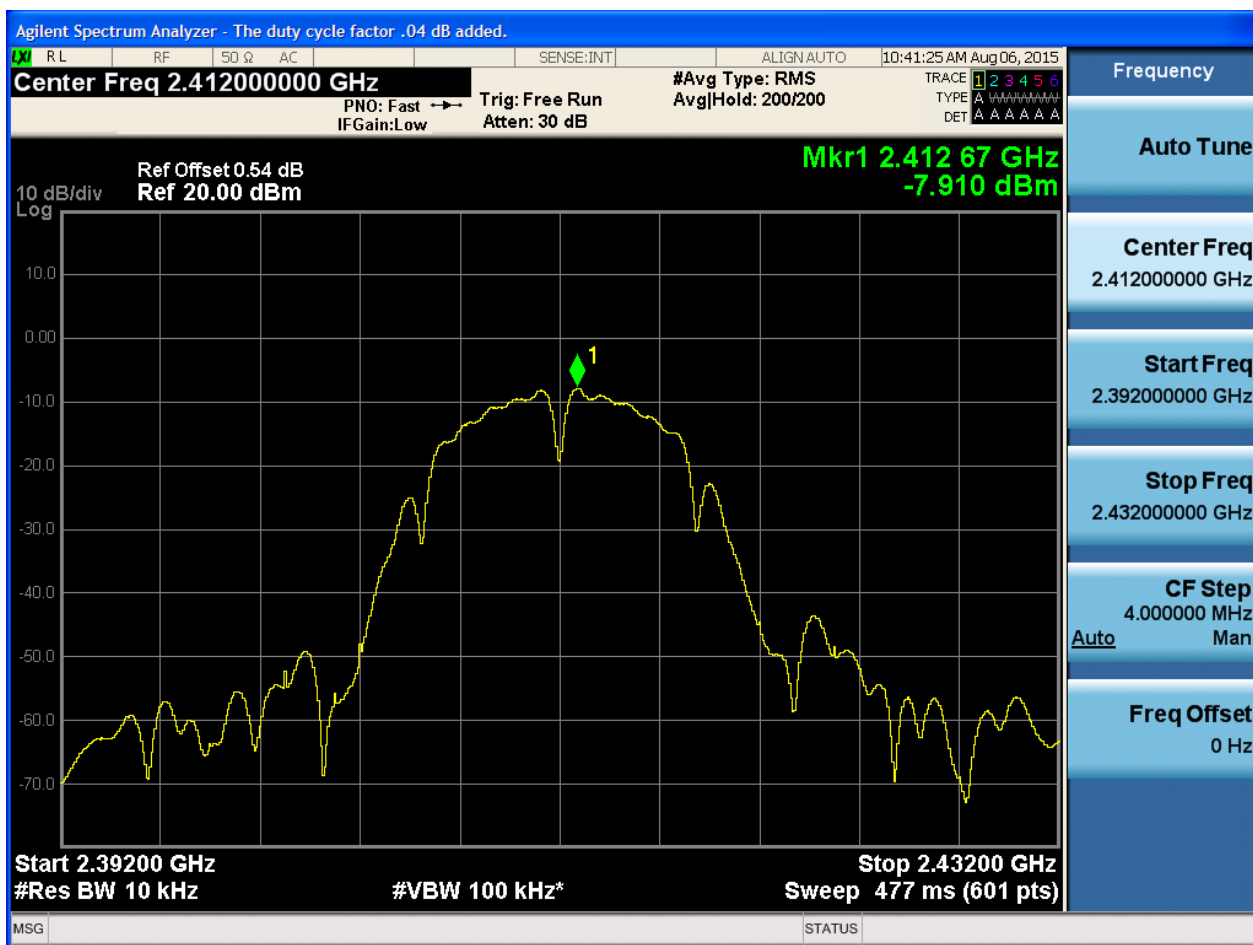
Part II - Test Plots

2.1 11B_L@Ant 1



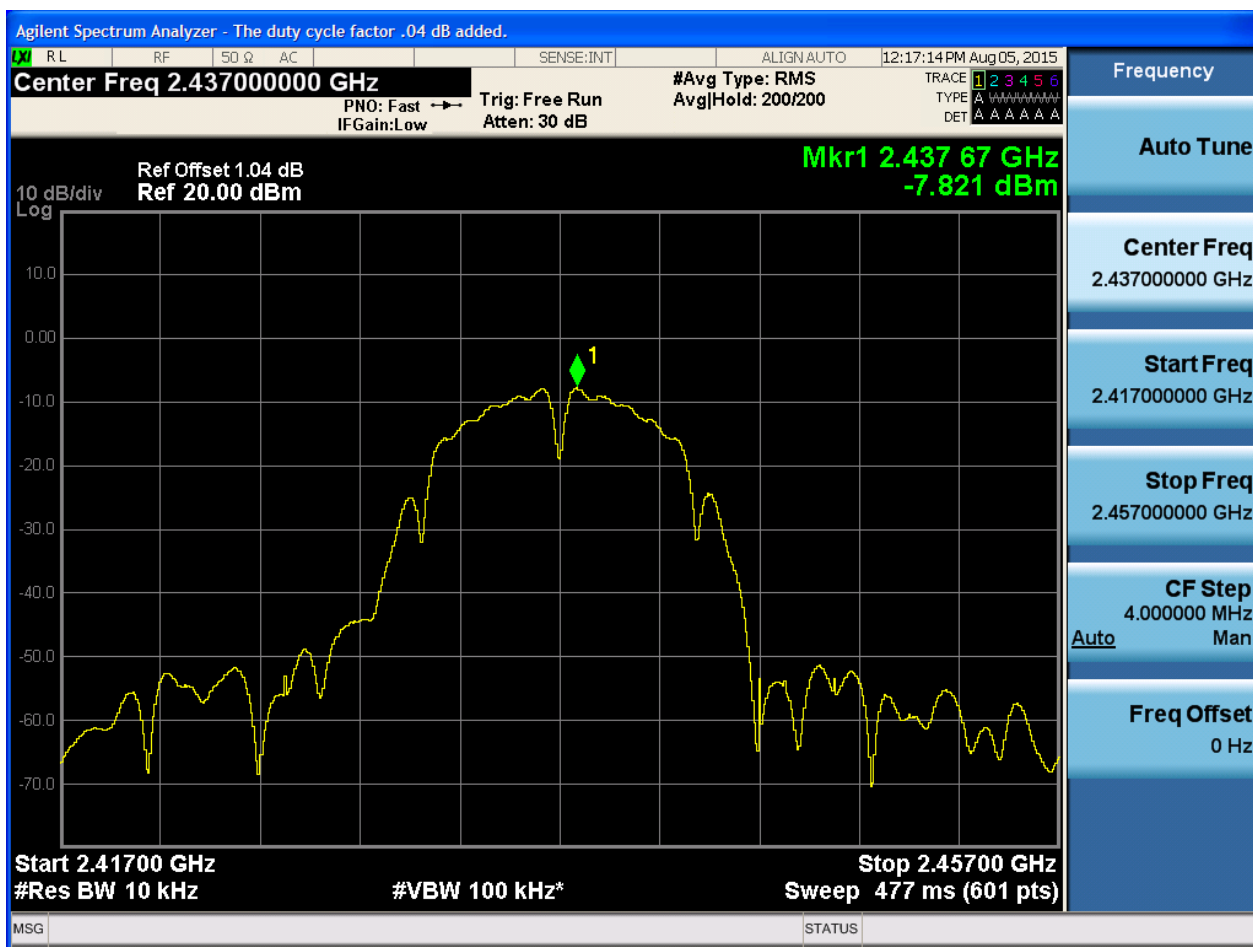


2.2 11B_L@Ant 2



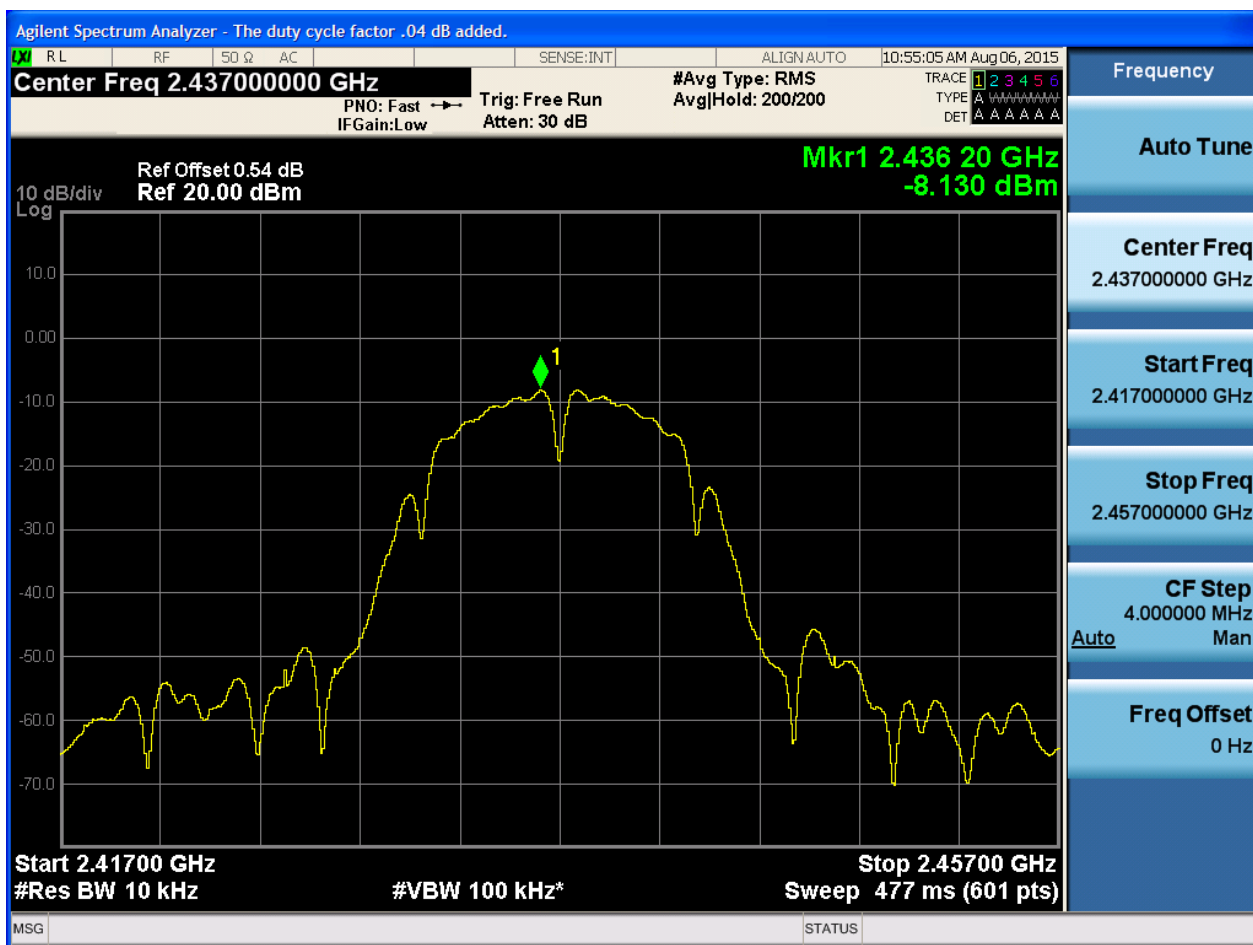


2.3 11B_M@Ant 1



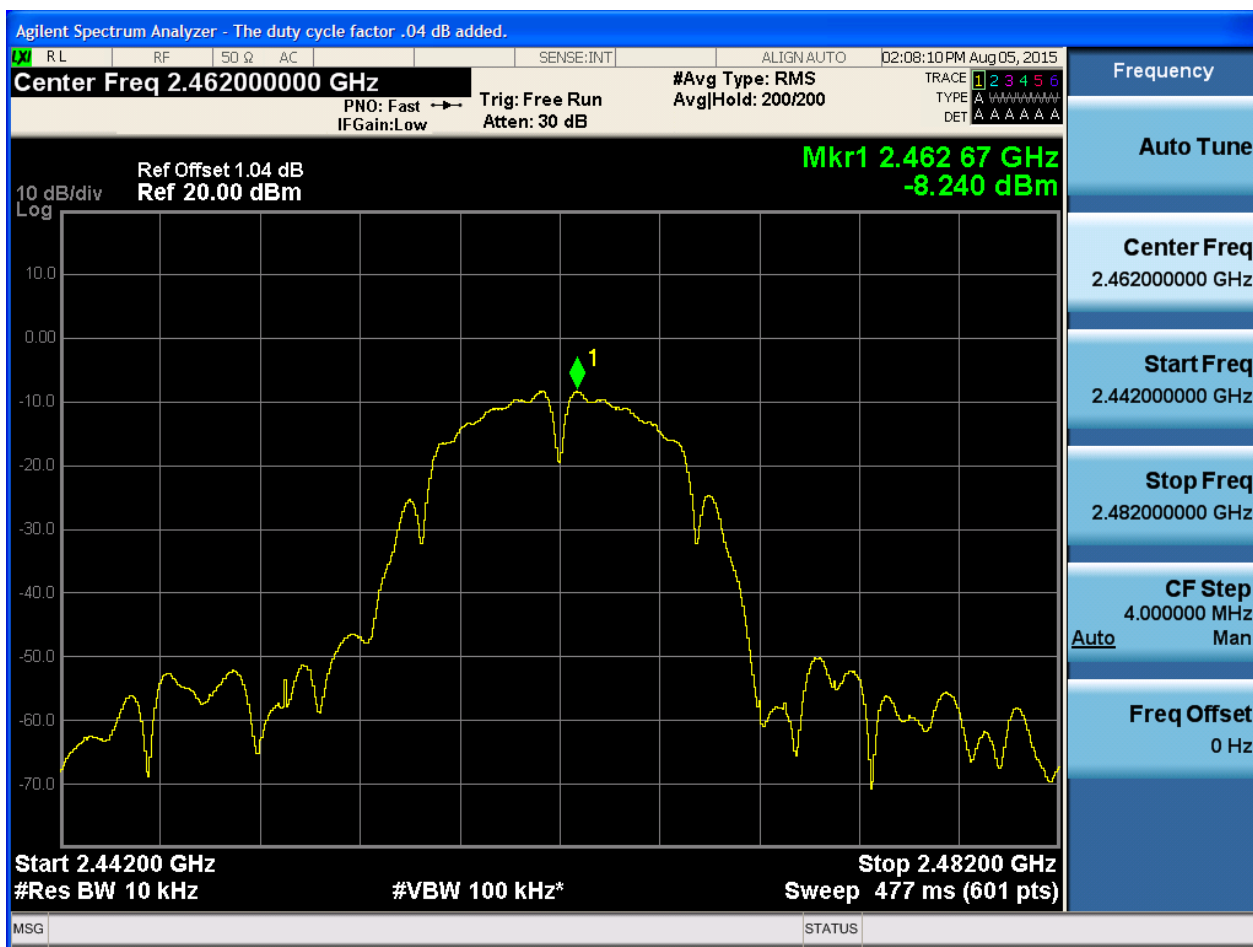


2.4 11B_M@Ant 2



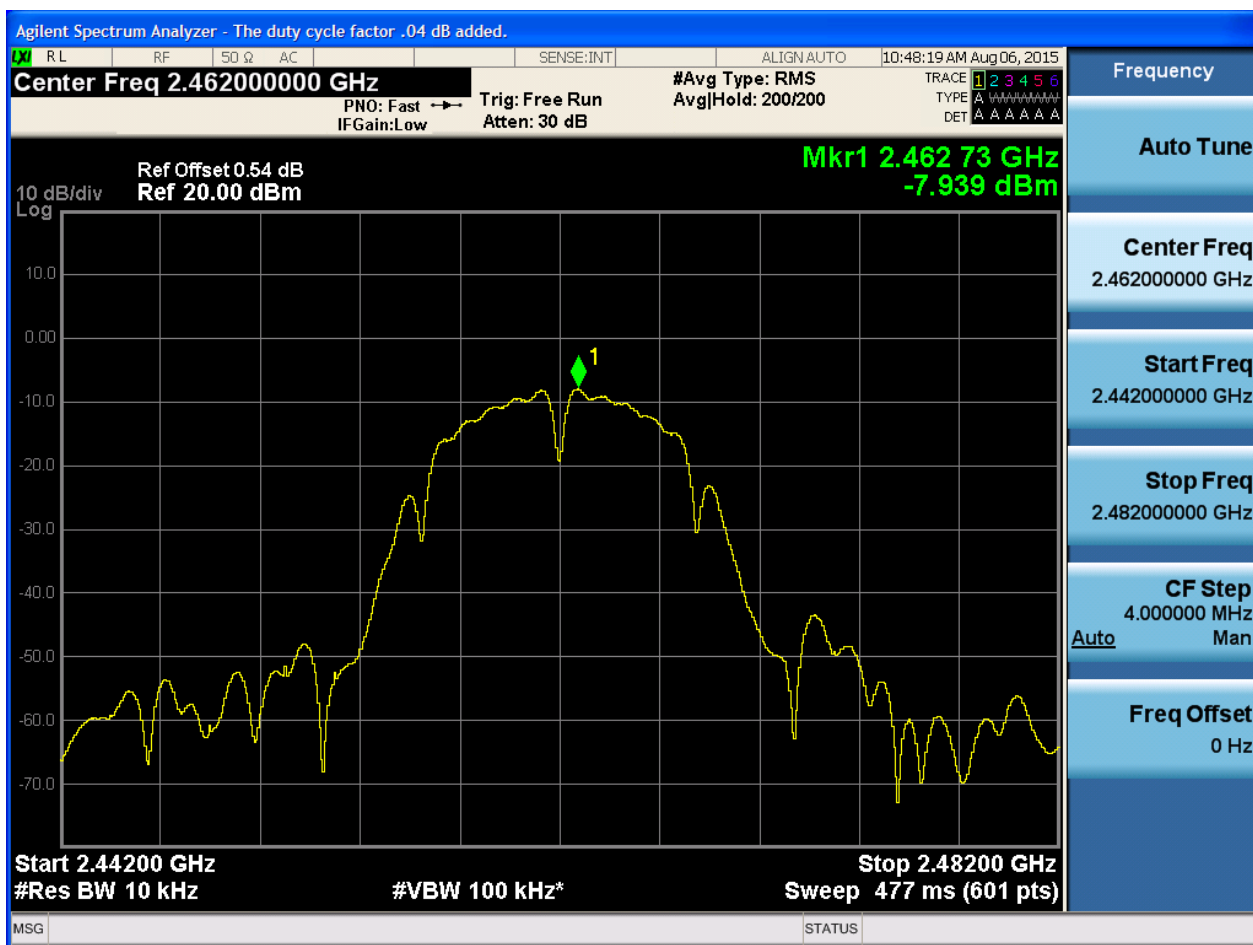


2.5 11B_H@Ant 1



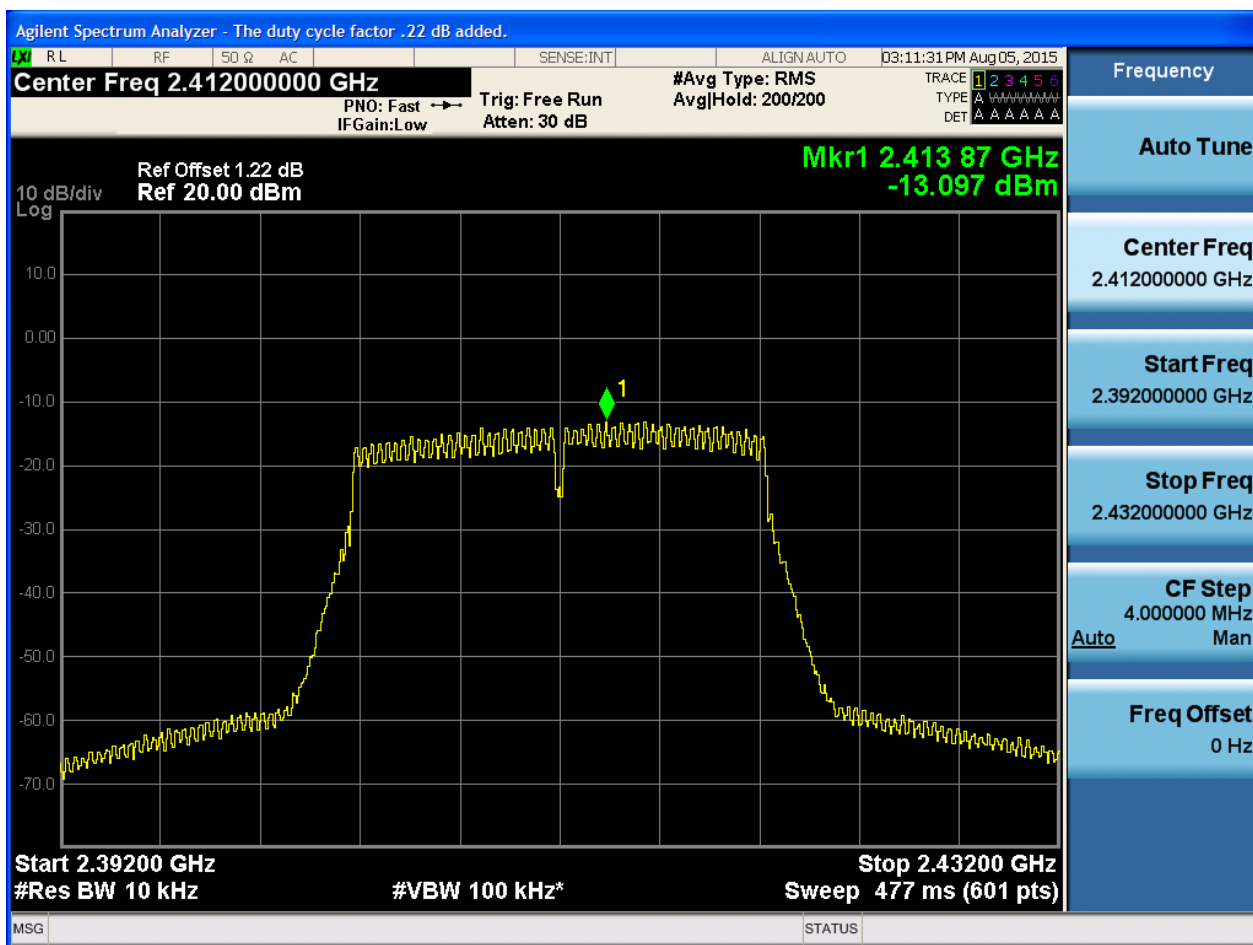


2.6 11B_H@Ant 2



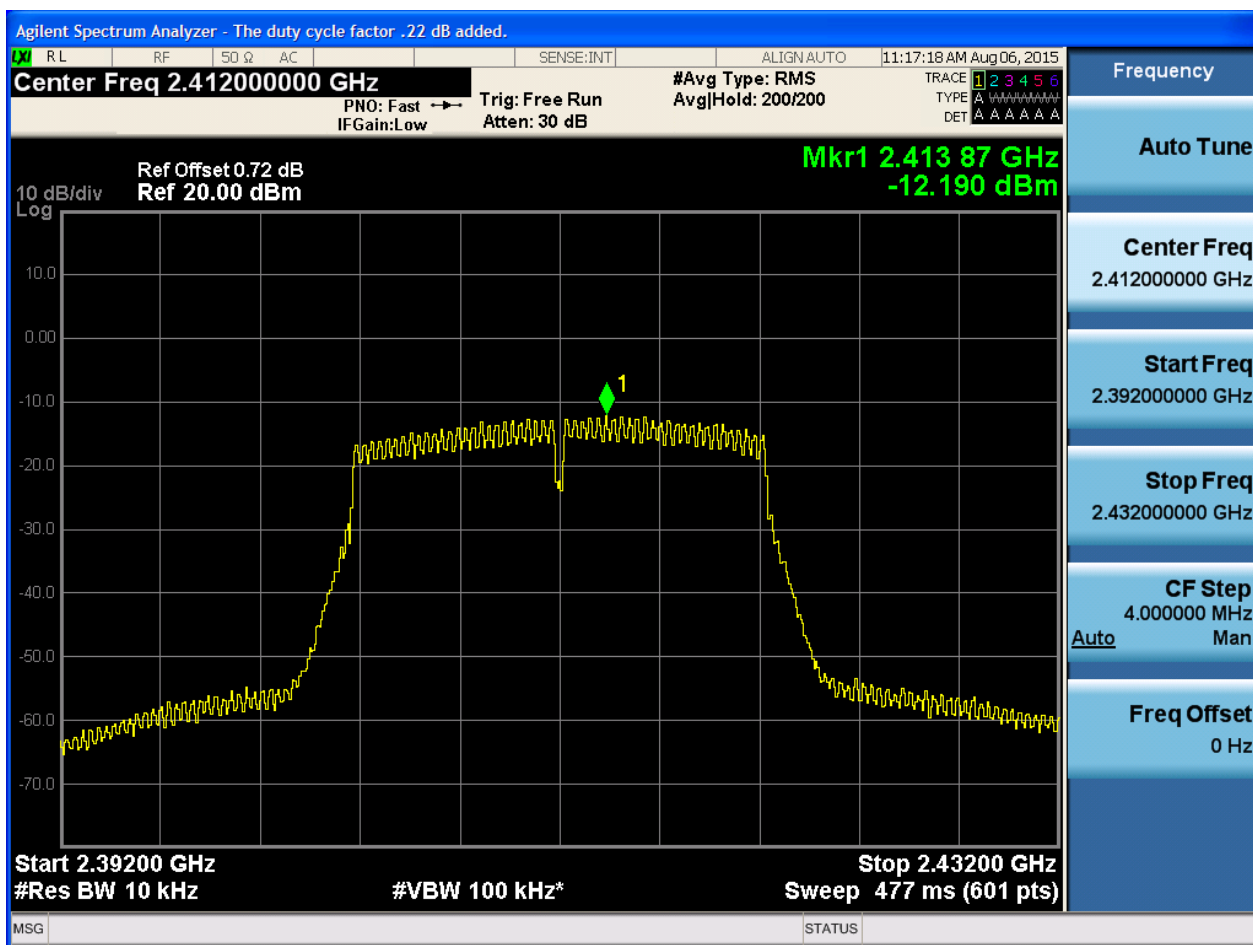


2.7 11G_L@Ant 1



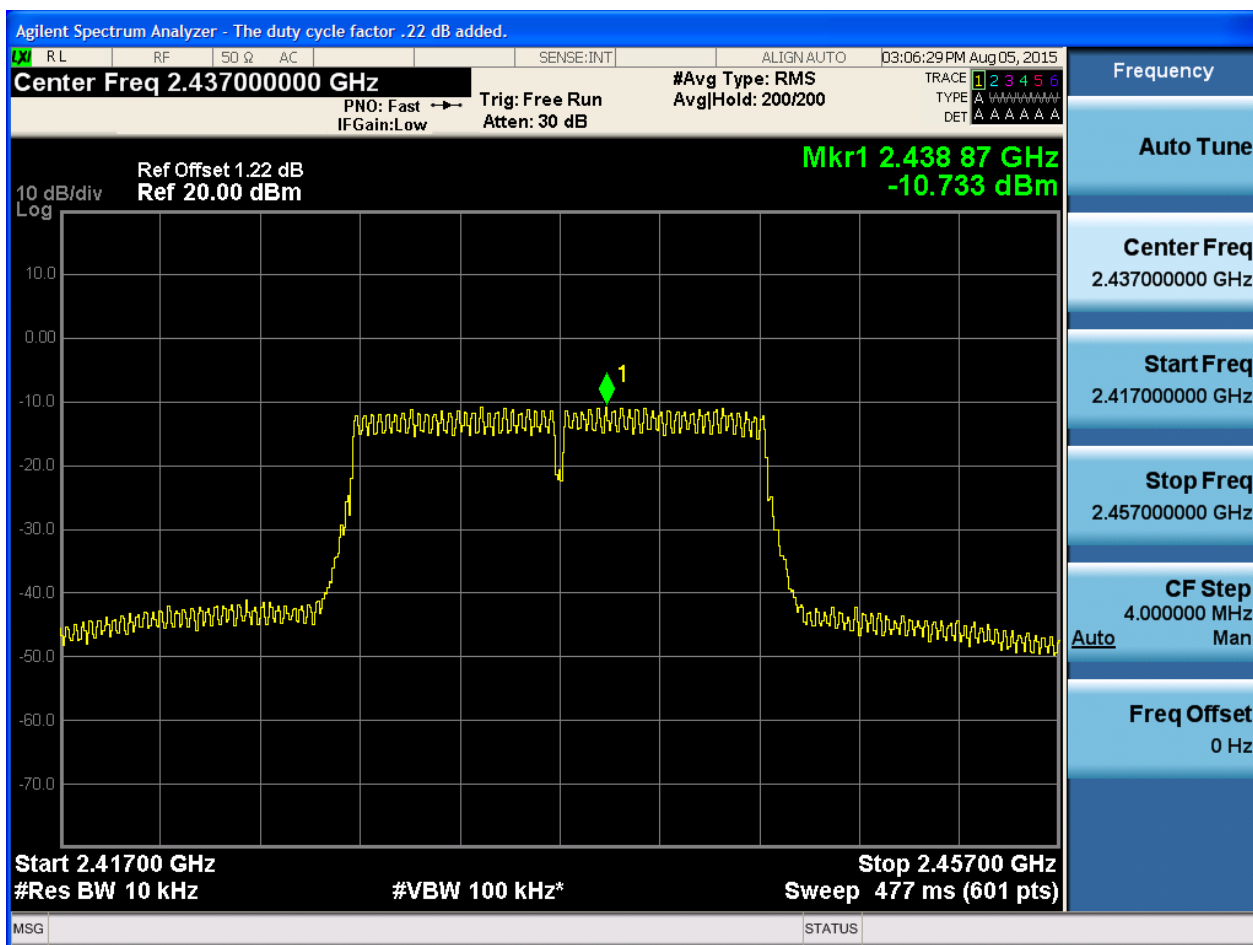


2.8 11G_L@Ant 2



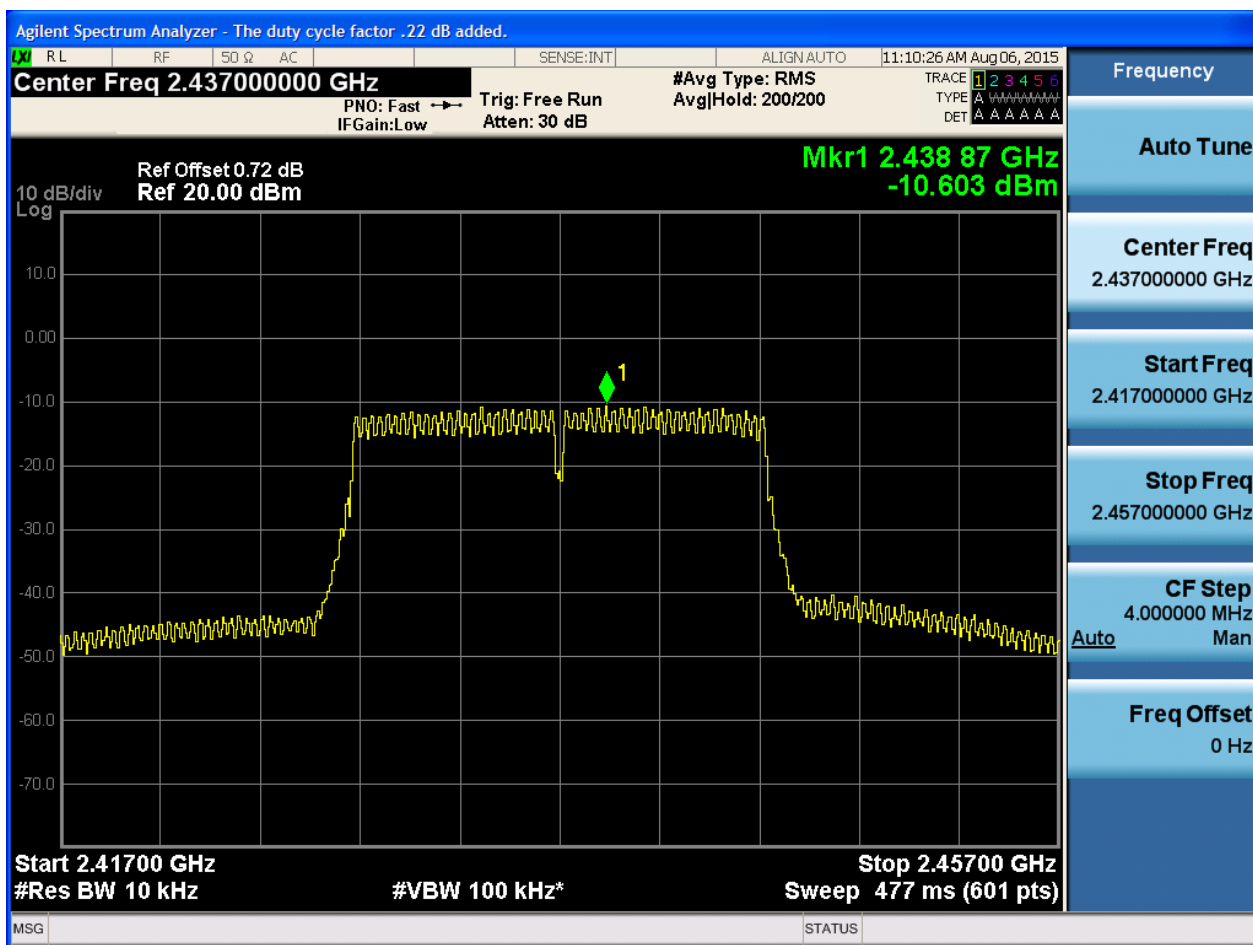


2.9 11G_M@Ant 1



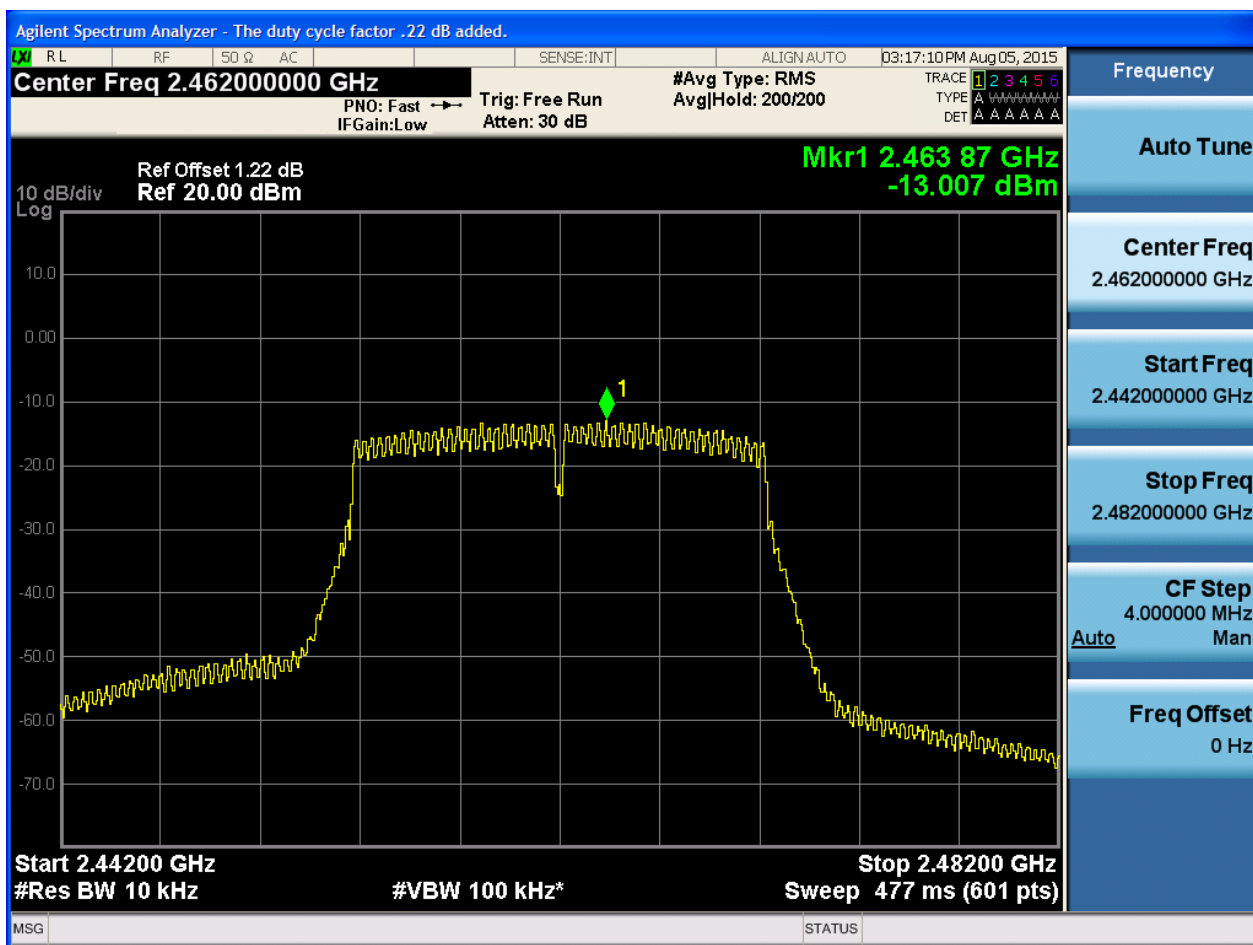


2.10 11G_M@Ant 2



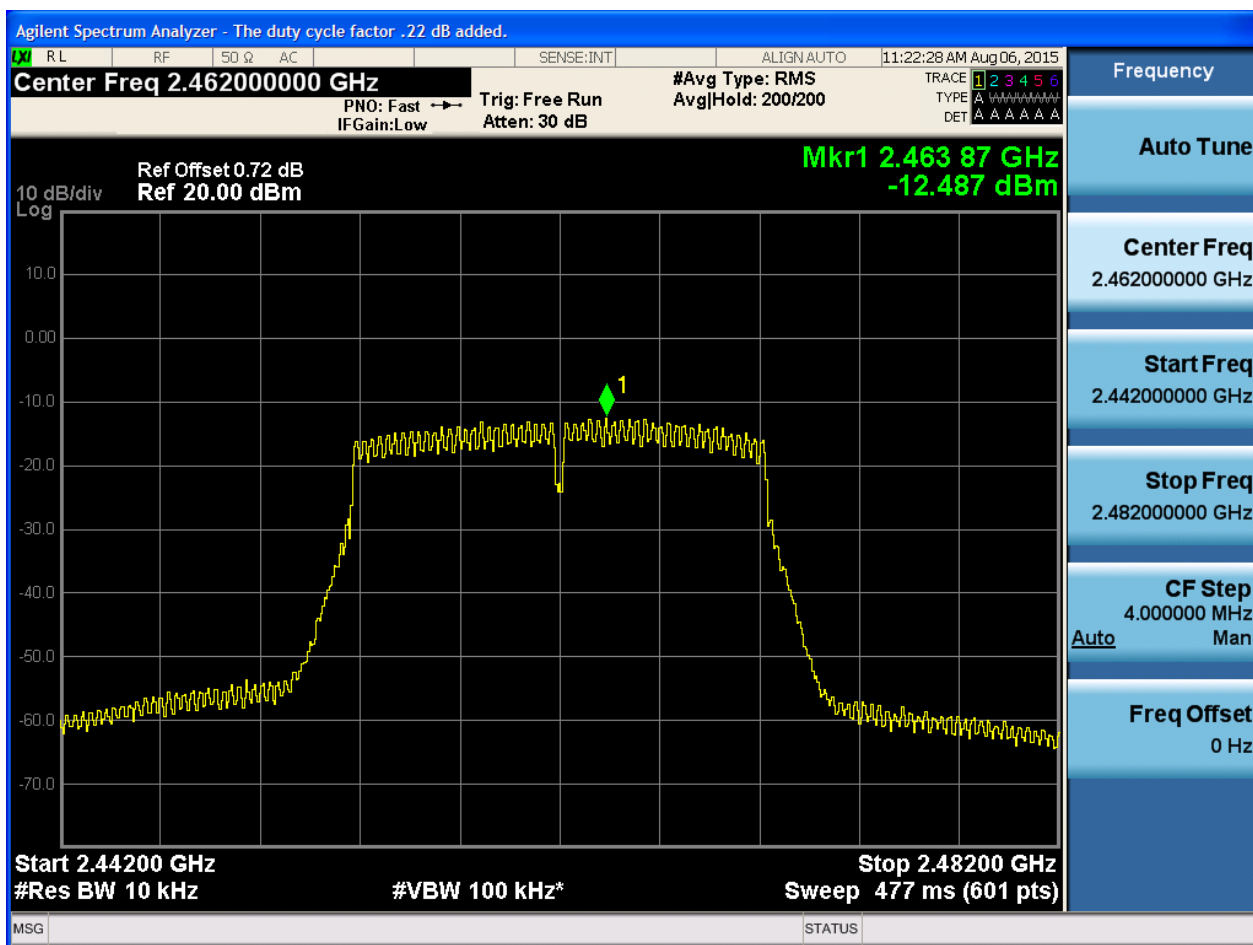


2.11 11G_H@Ant 1



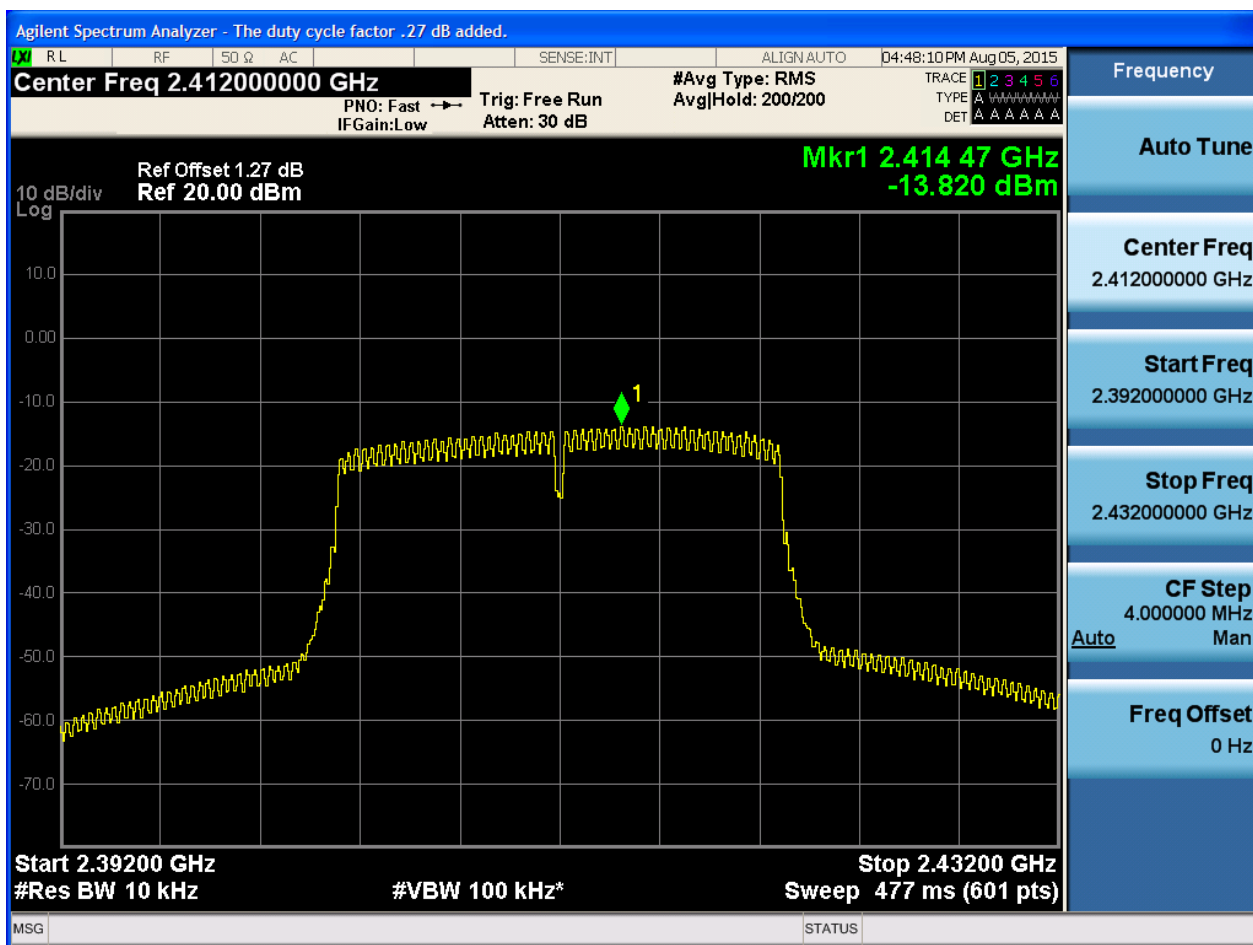


2.12 11G_H@Ant 2



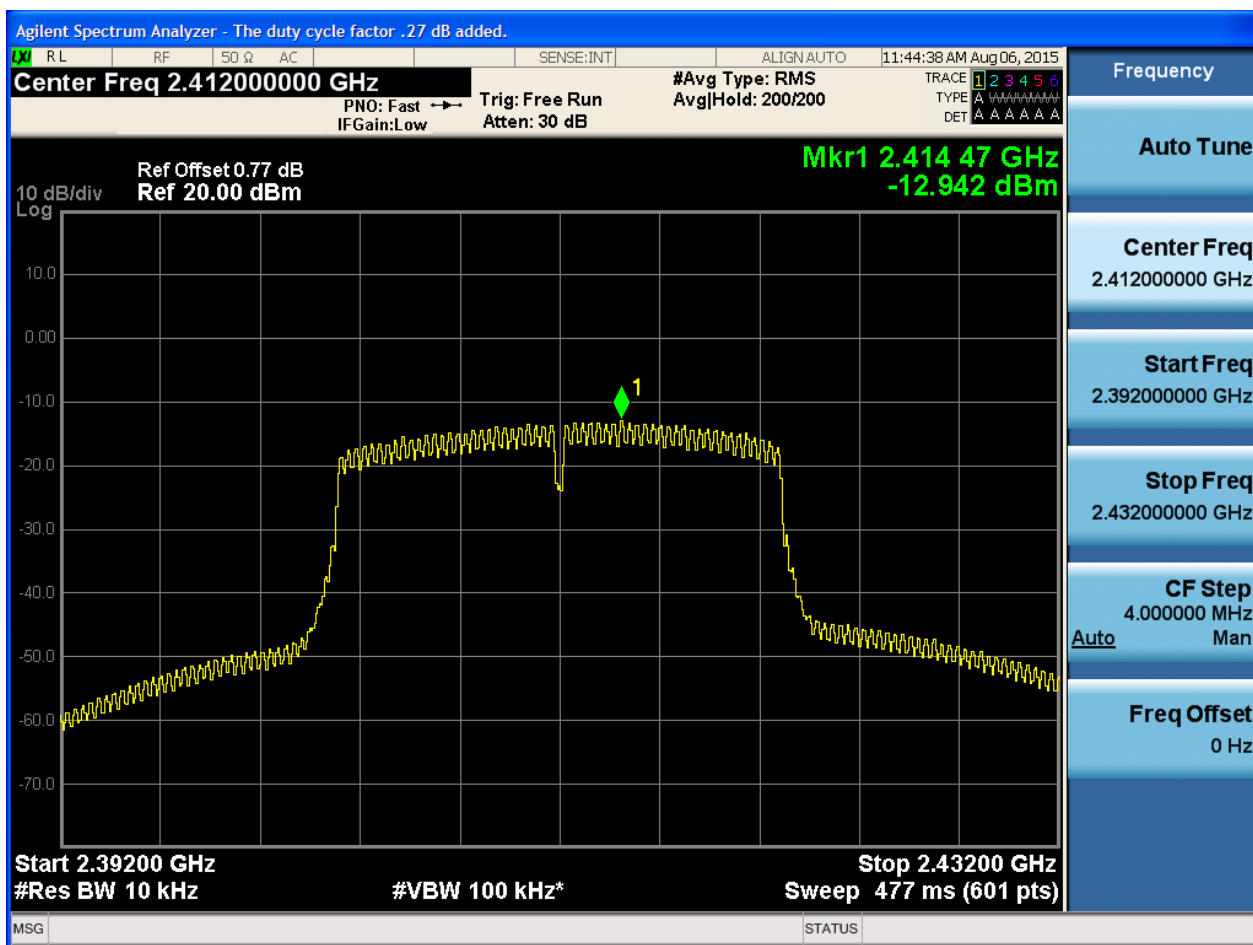


2.13 11N20_L@Ant 1



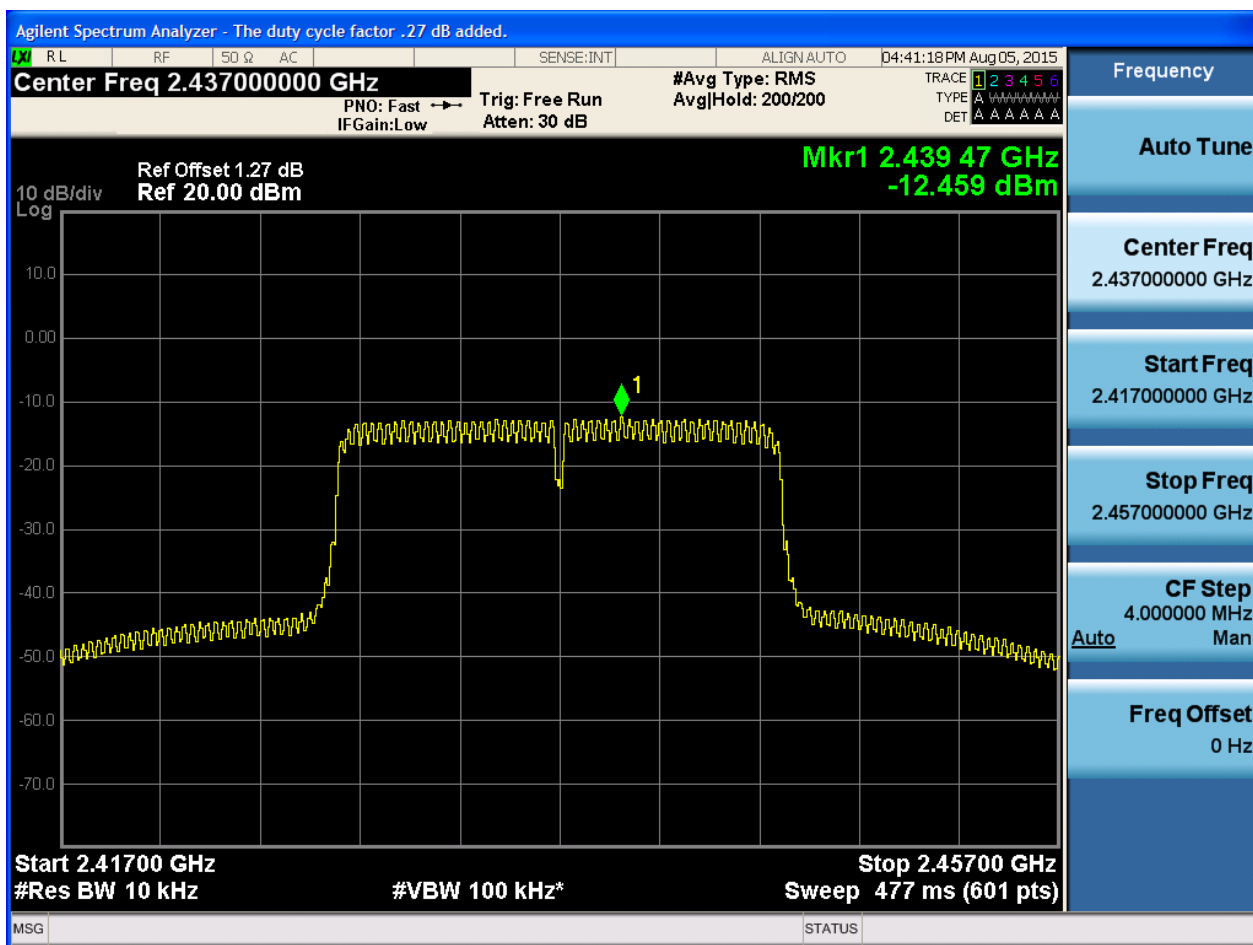


2.14 11N20_L@Ant 2



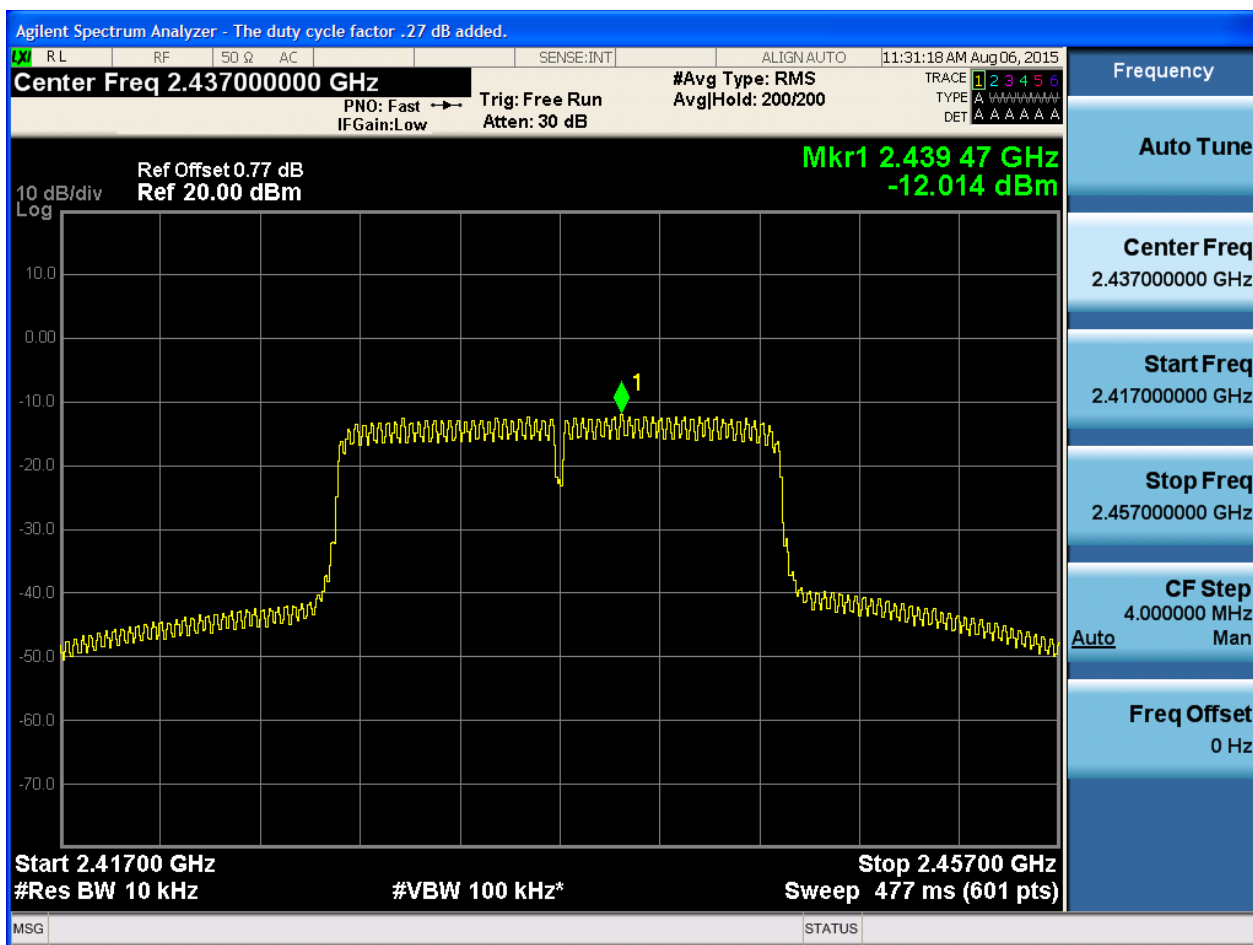


2.15 11N20_M@Ant 1



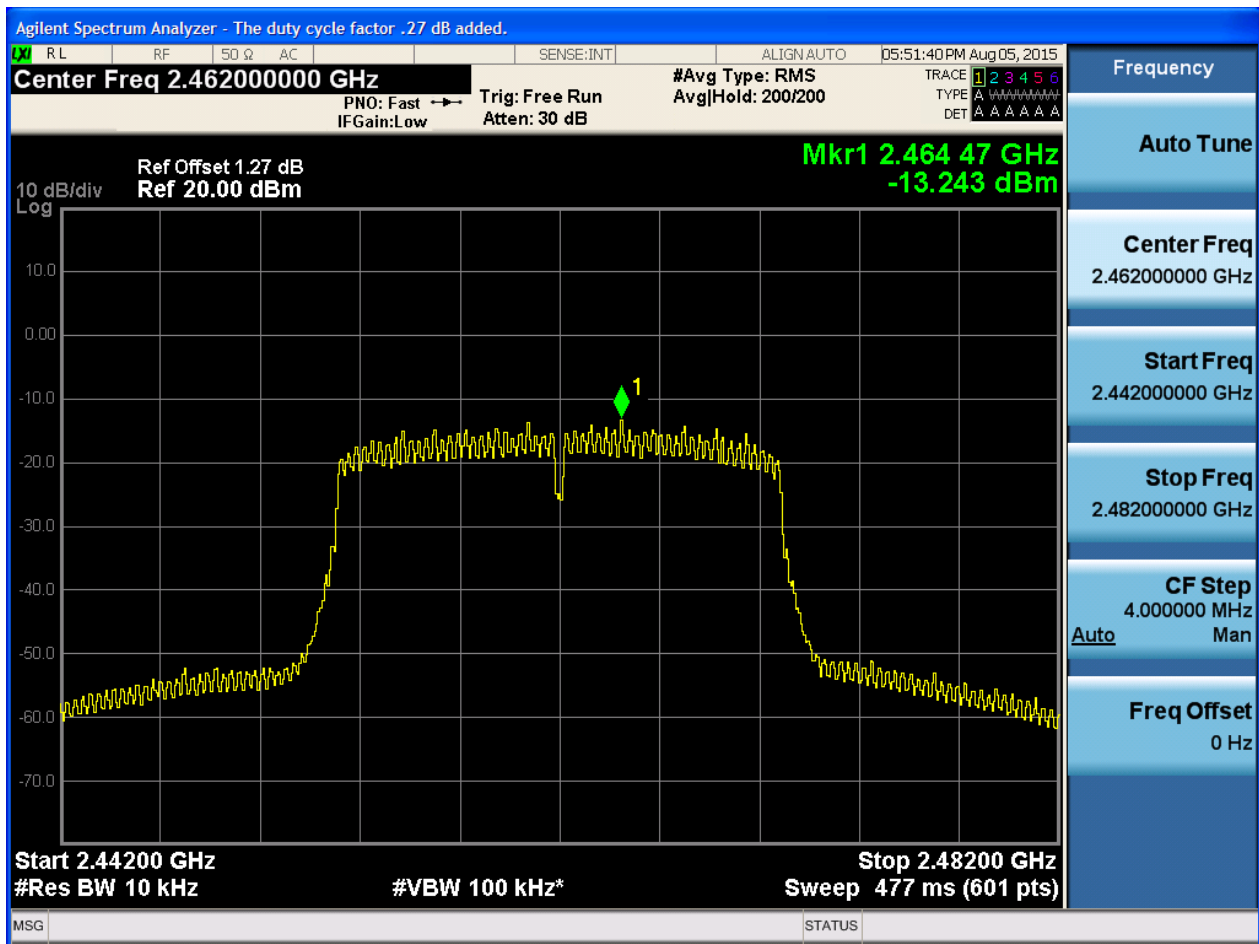


2.16 11N20_M@Ant 2



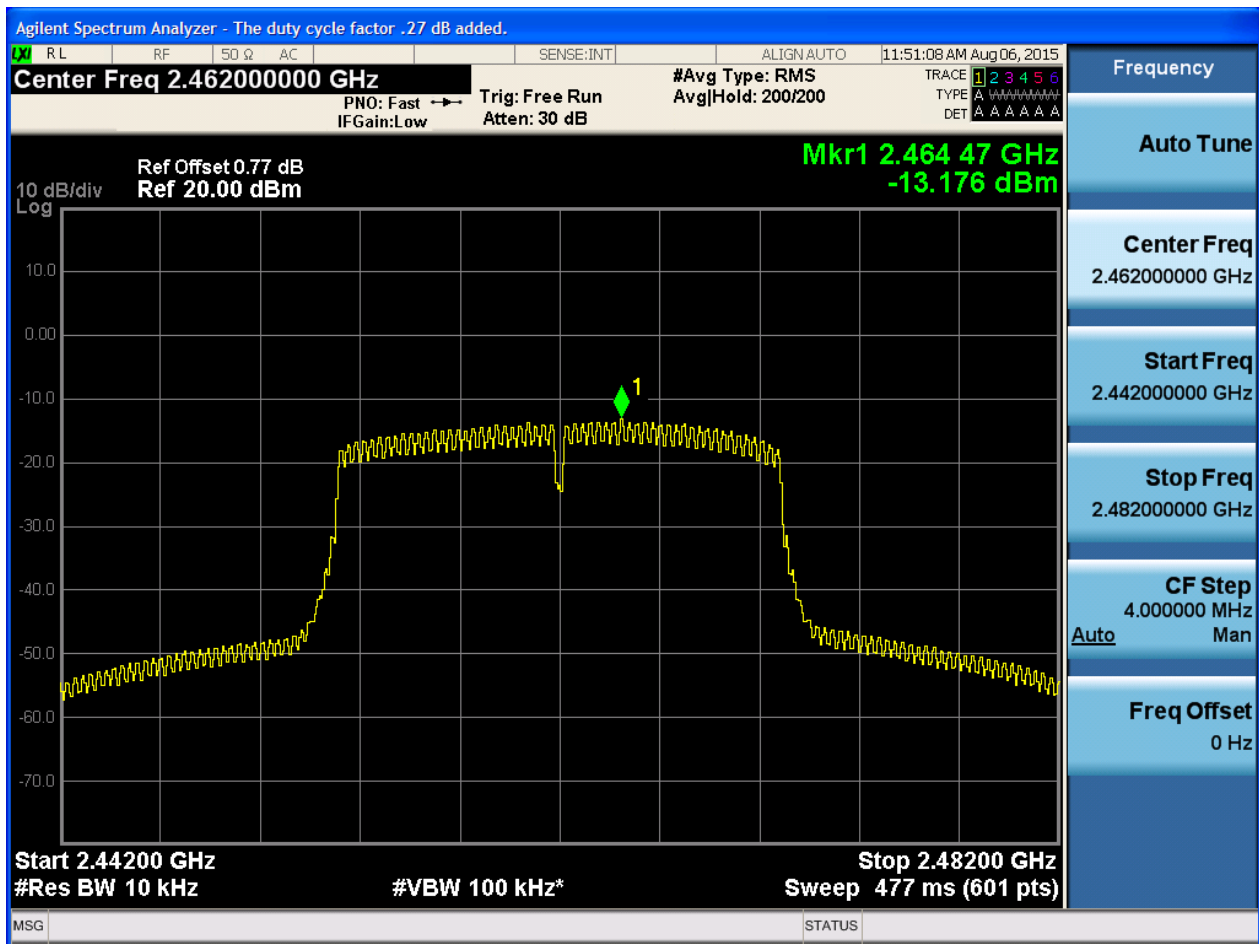


2.17 11N20_H@Ant 1



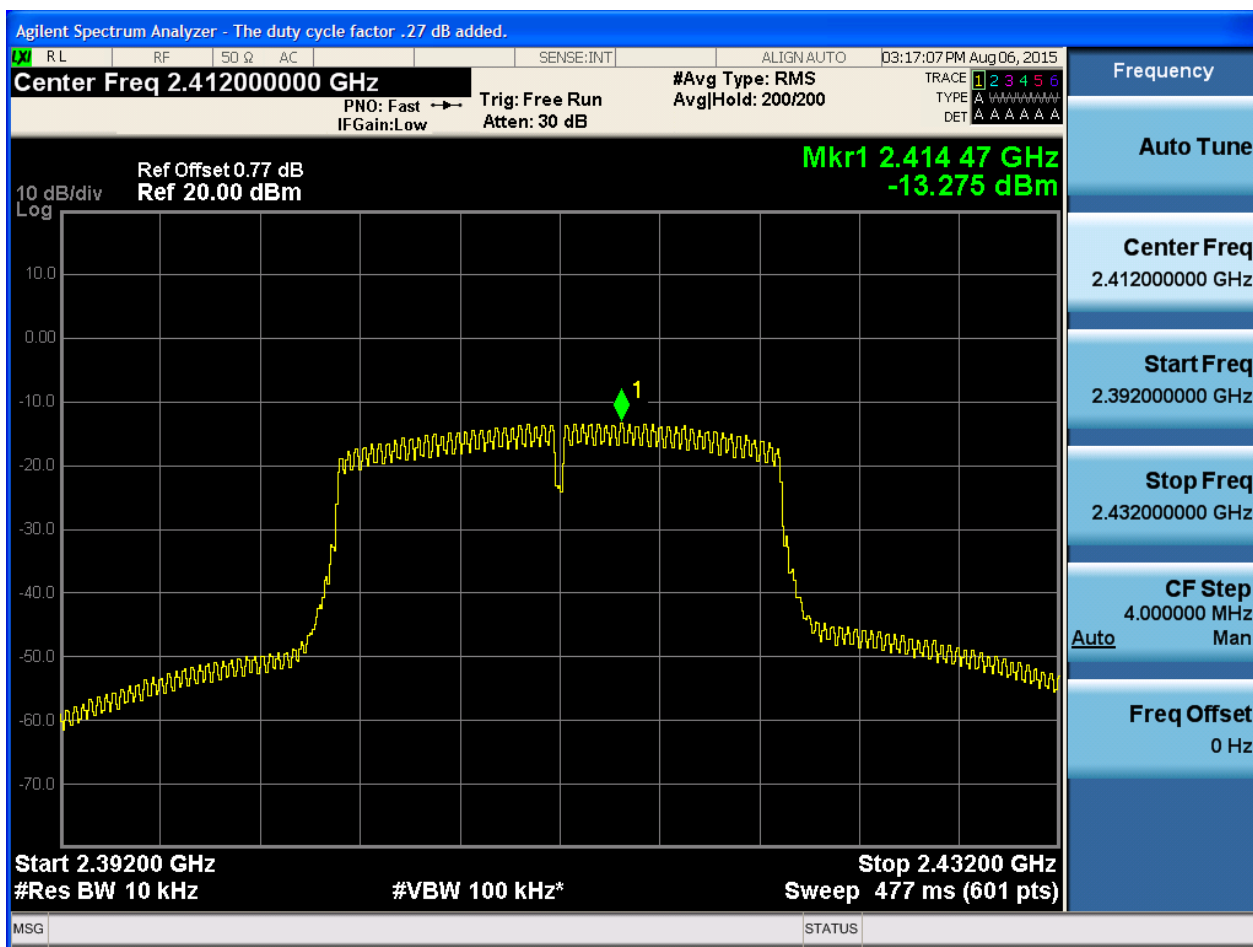


2.18 11N20_H@Ant 2



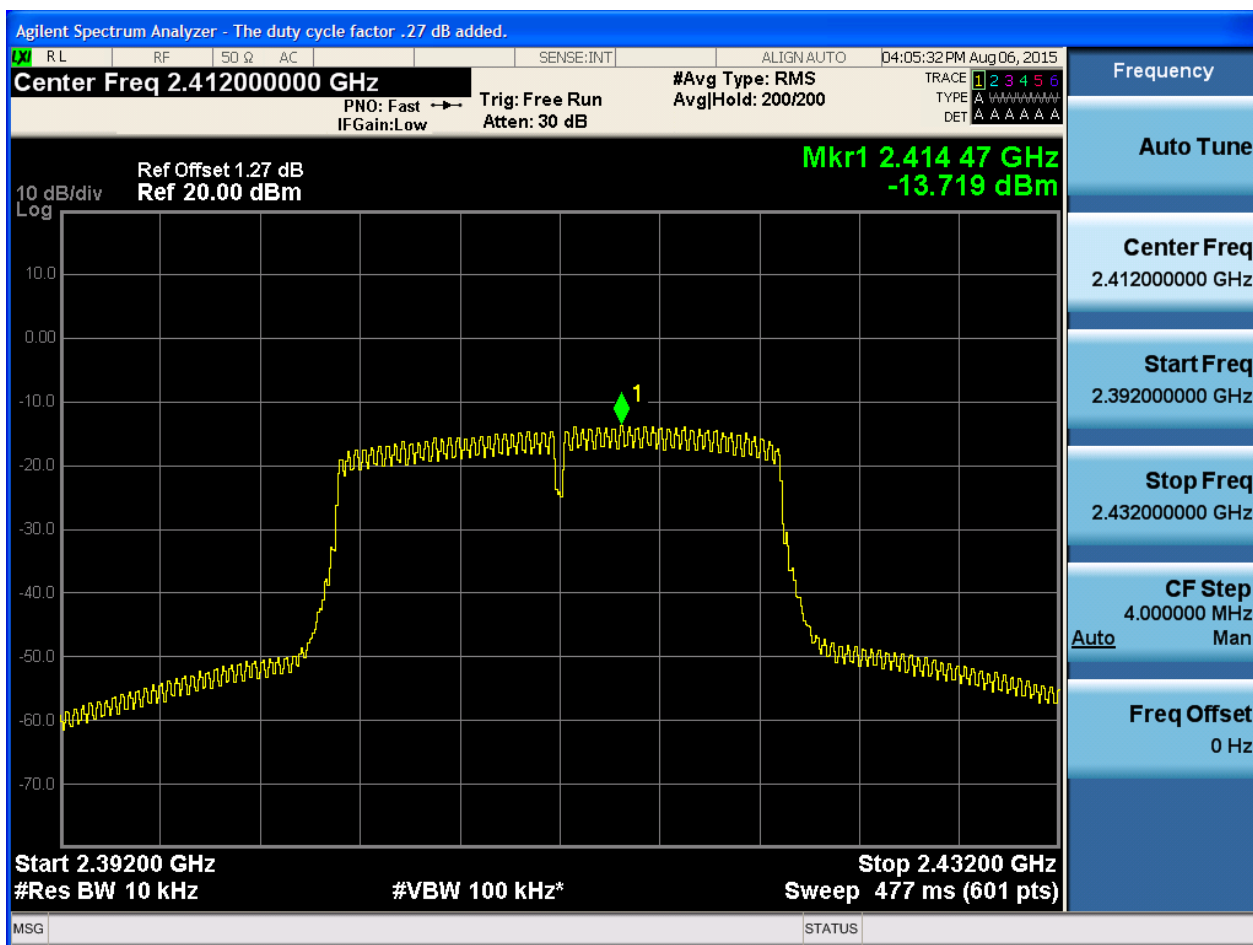


2.14 11N20m_L@Ant 2



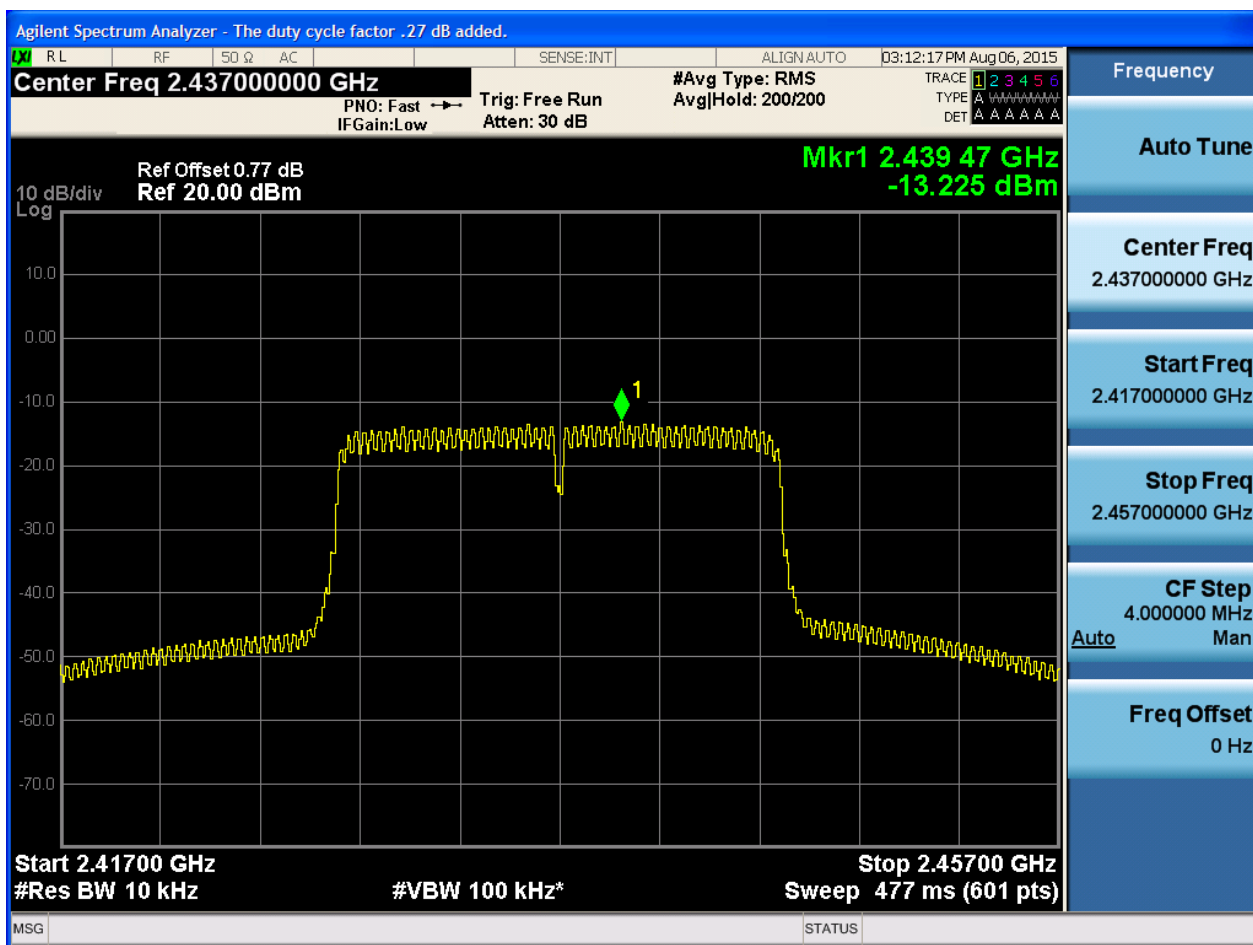


2.13 11N20m_L@Ant 1



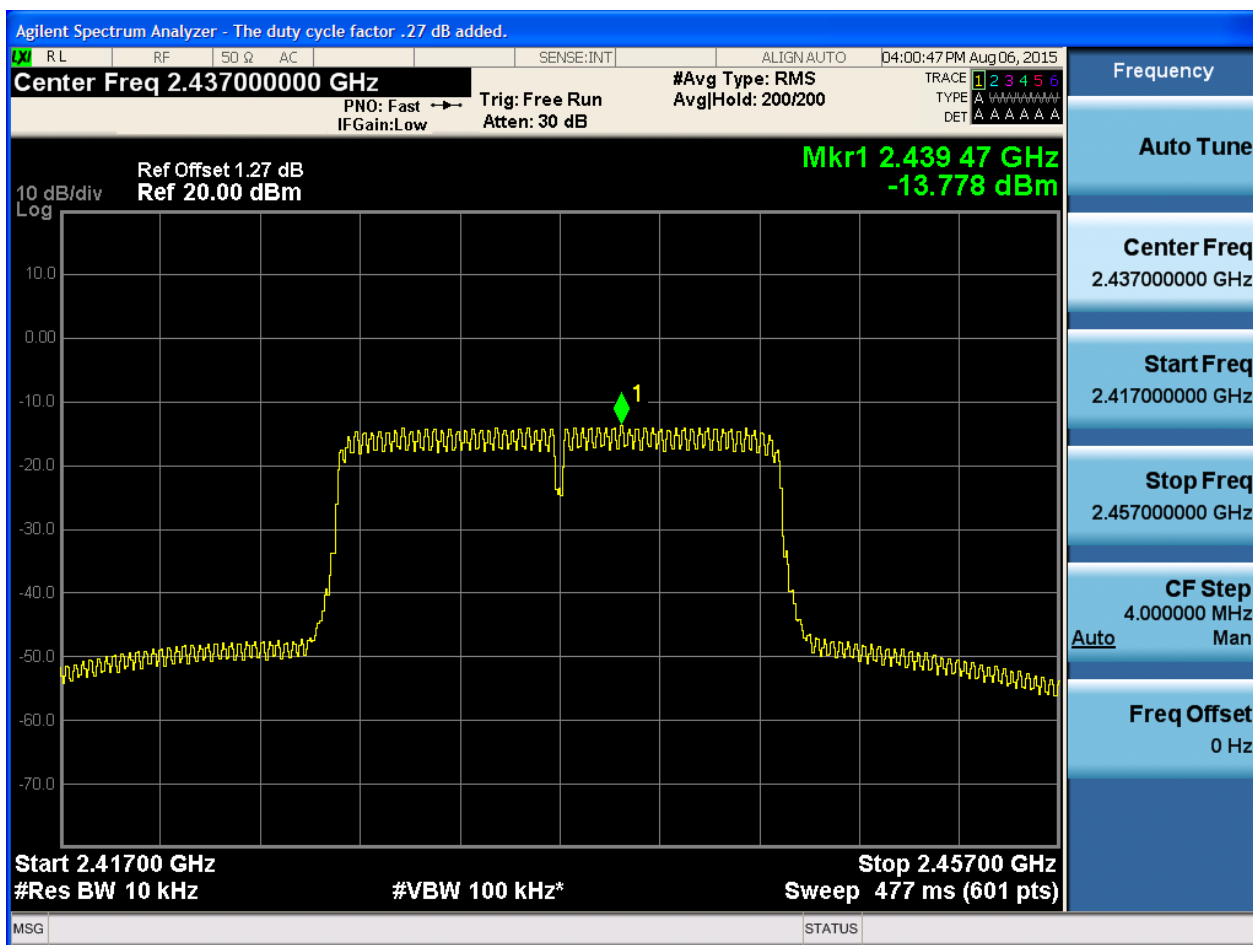


2.16 11N20m_M@Ant 2





2.15 11N20m_M@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .27 dB added.

Center Freq 2.46200000 GHz

#Avg Type: RMS
Avg|Hold: 200/200

Trig: Free Run
Atten: 30 dB

Ref Offset 0.77 dB
Ref 20.00 dBm

Mkr1 2.464 47 GHz
-13.507 dBm

Start 2.44200 GHz
#Res BW 10 kHz
#VBW 100 kHz*

Stop 2.48200 GHz
Sweep 477 ms (601 pts)

Frequency

Auto Tune

Center Freq
2.46200000 GHz

Start Freq
2.442000000 GHz

Stop Freq
2.482000000 GHz

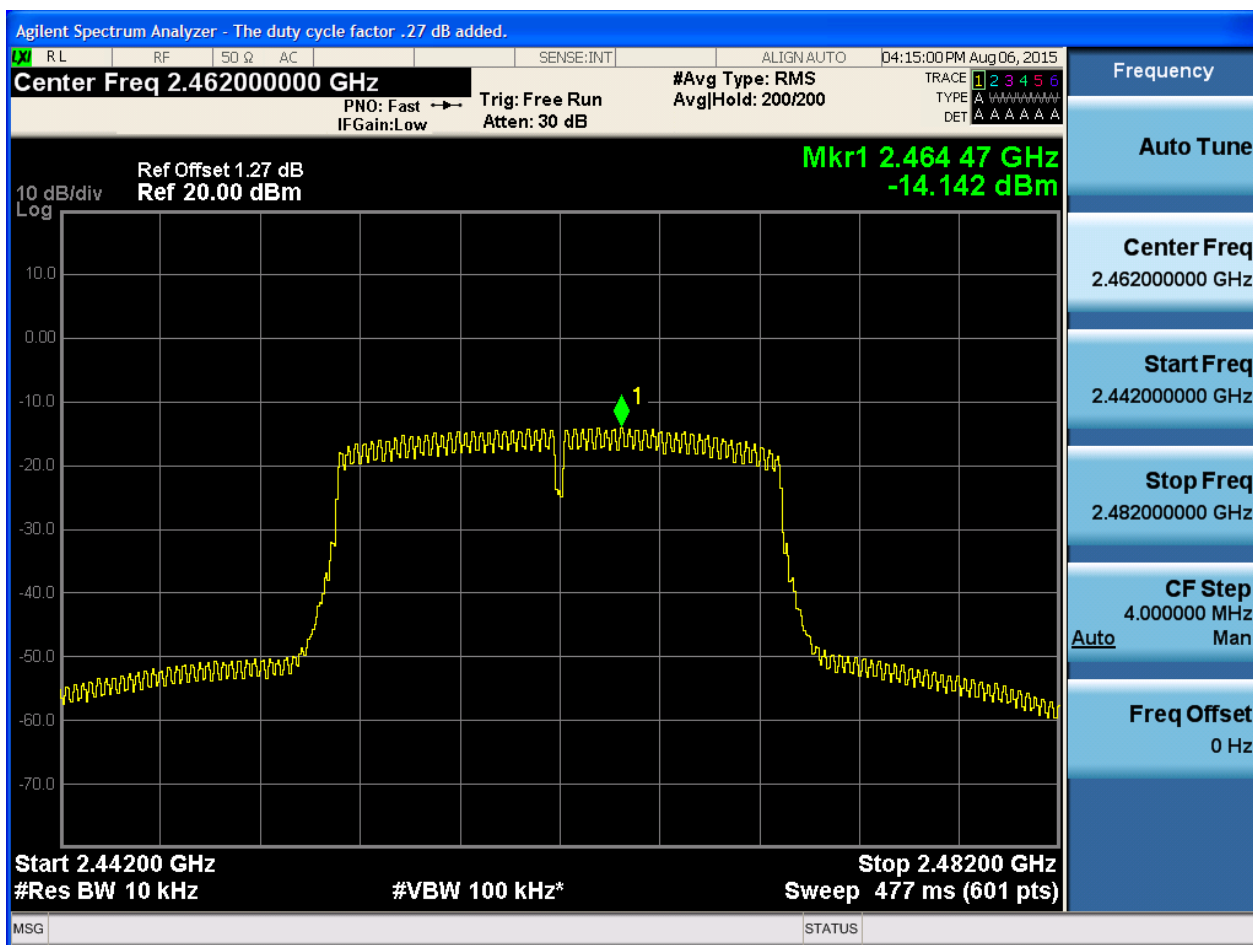
CF Step
4.000000 MHz
Man

Auto

Freq Offset
0 Hz

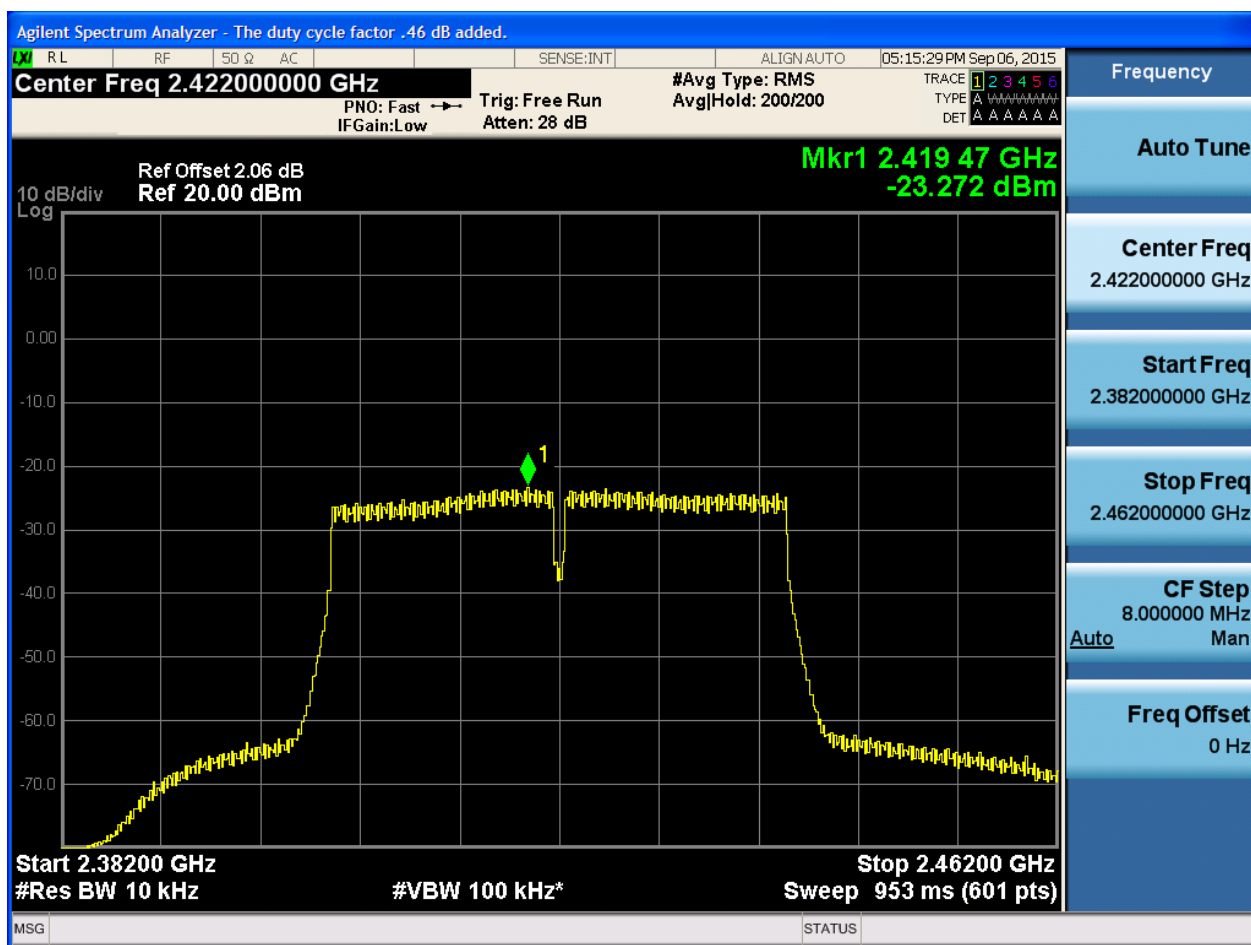


2.17 11N20m_H@Ant 1



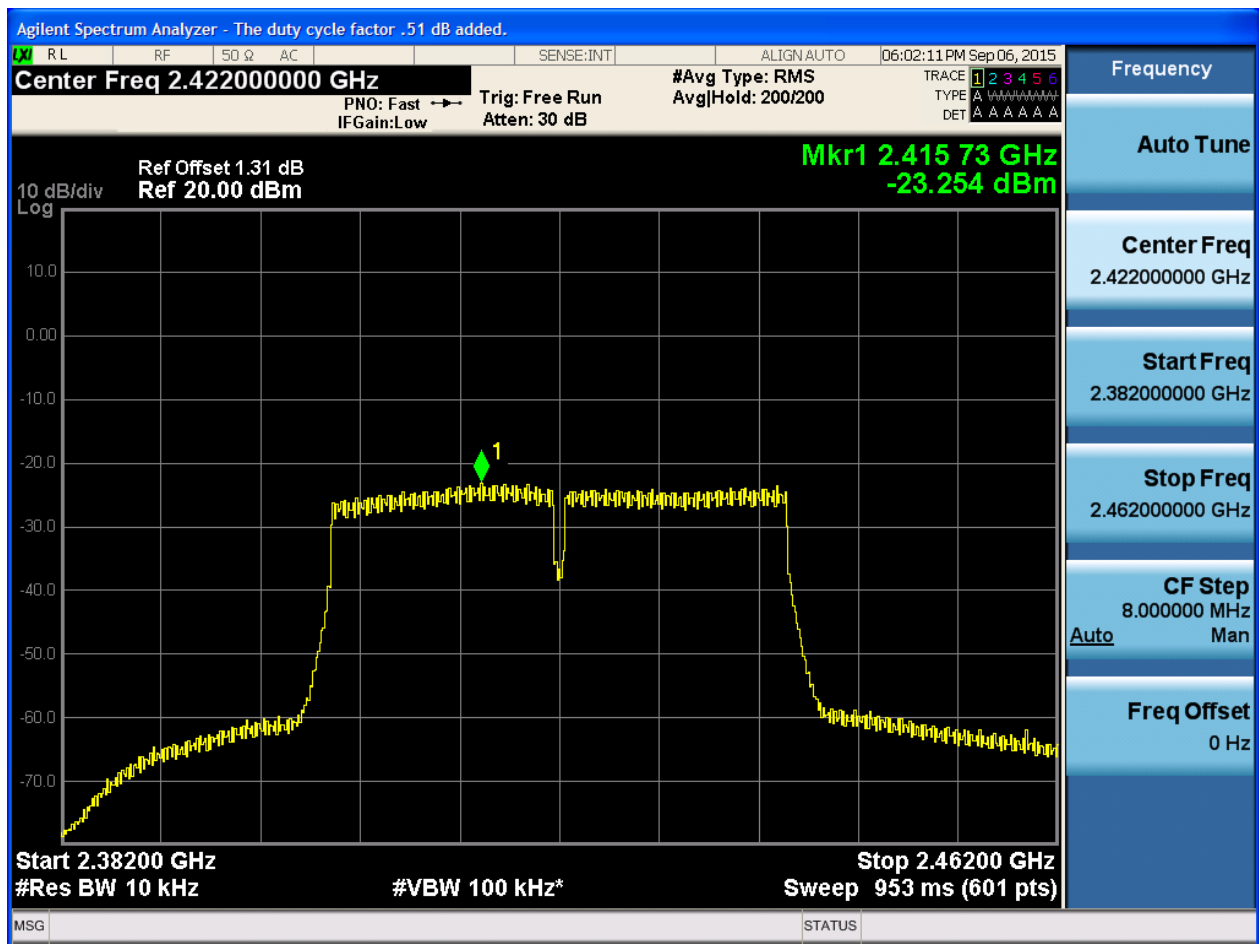


2.19 11N40_L@Ant 1



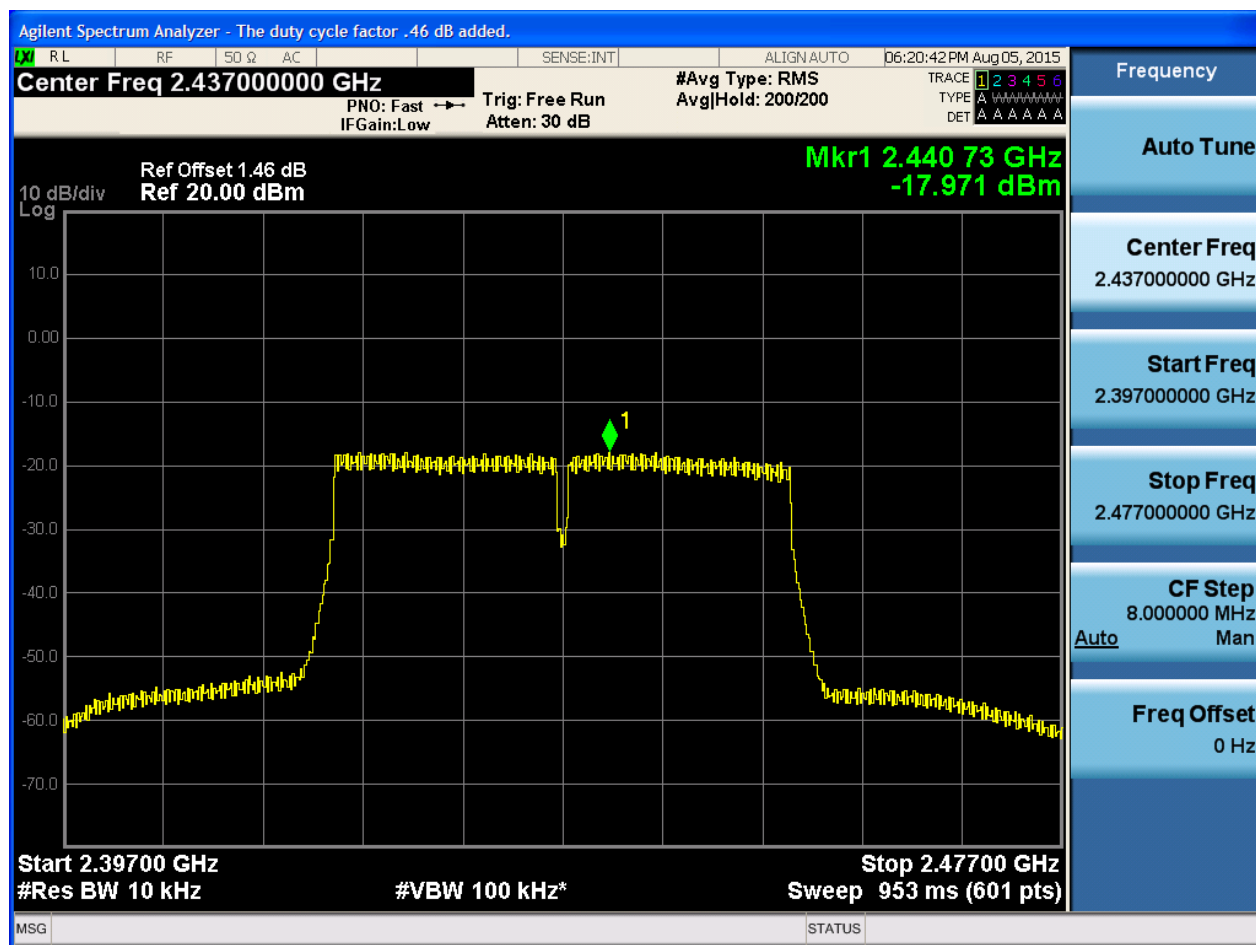


2.20 11N40_L@Ant 2



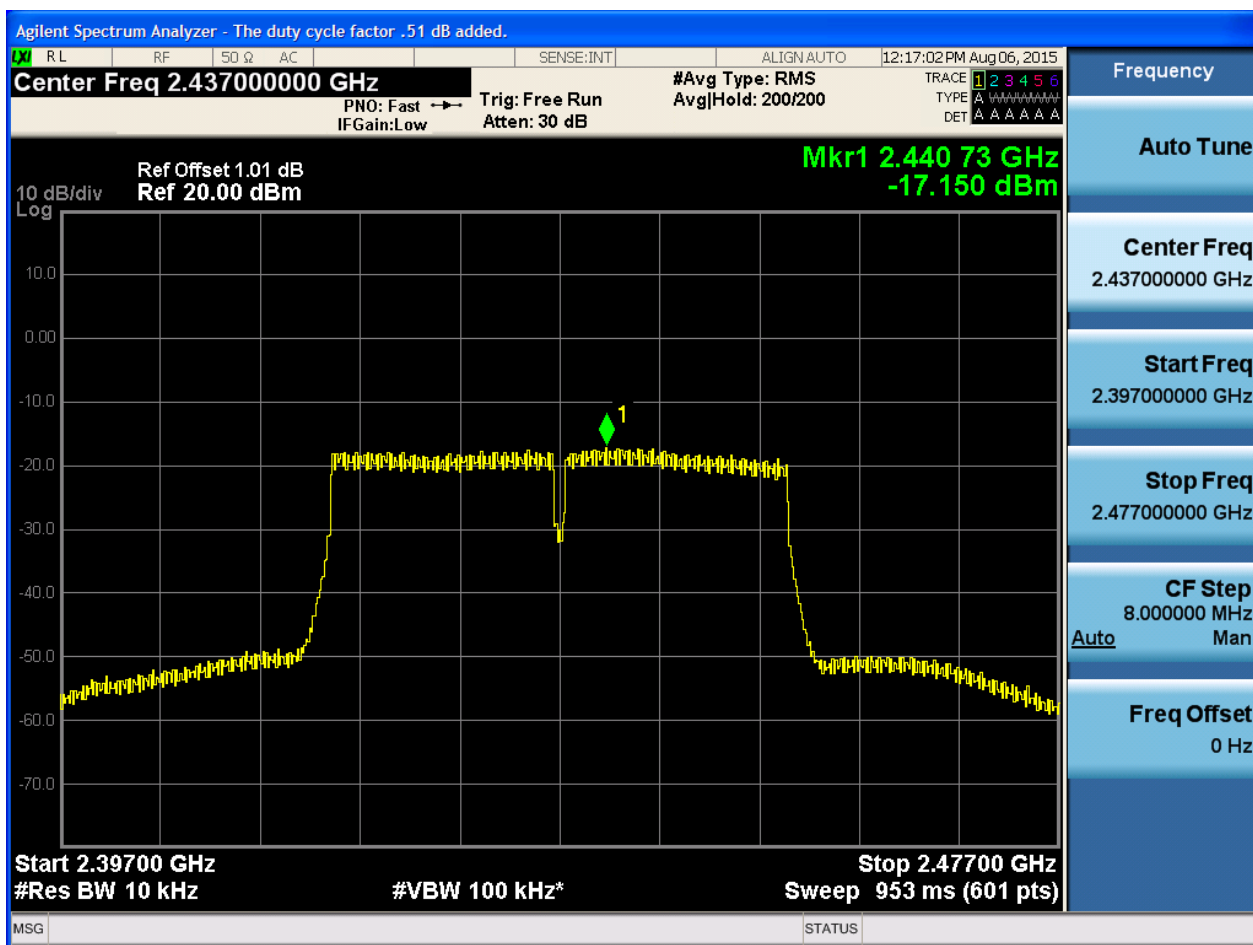


2.21 11N40_M@Ant 1



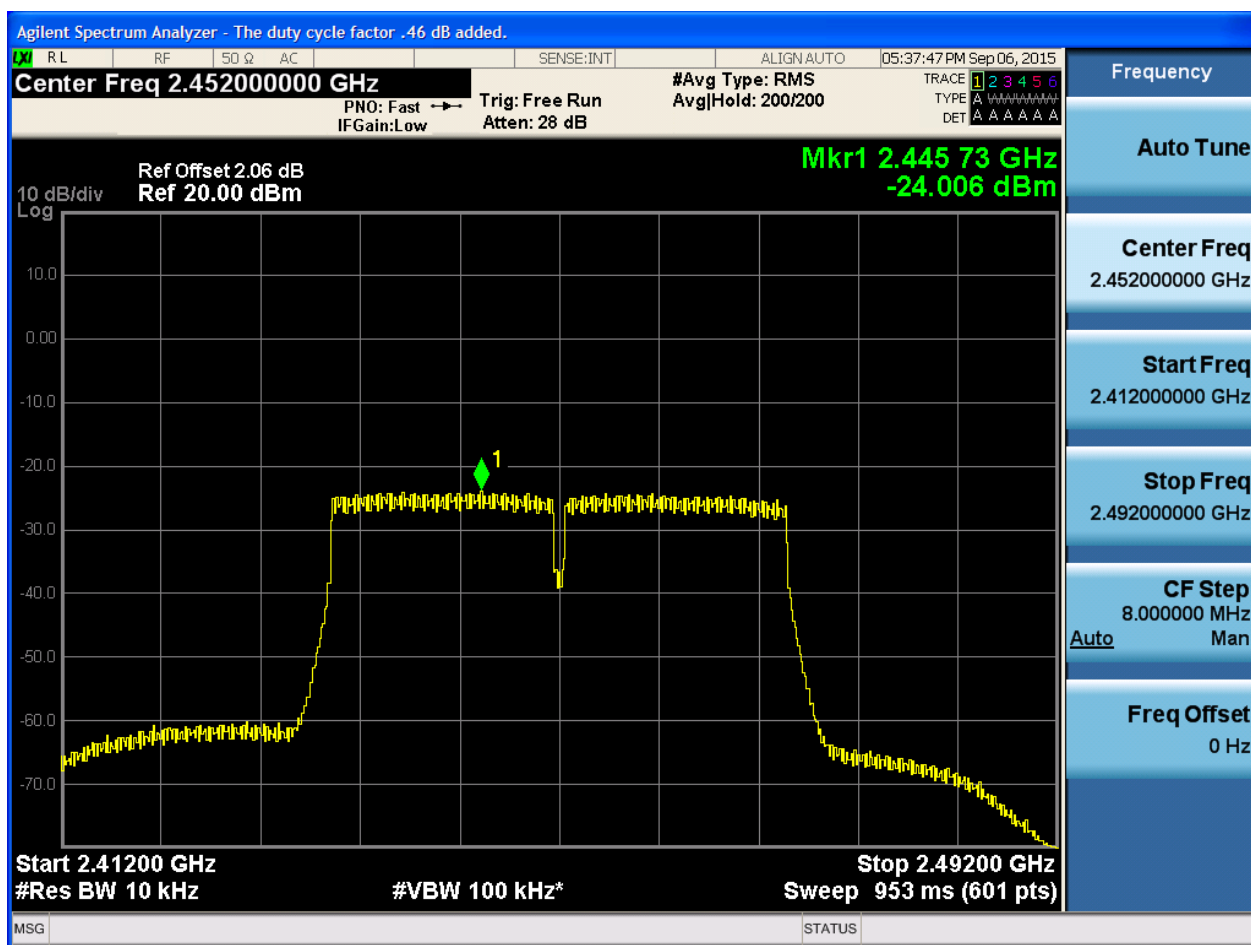


2.22 11N40_M@Ant 2



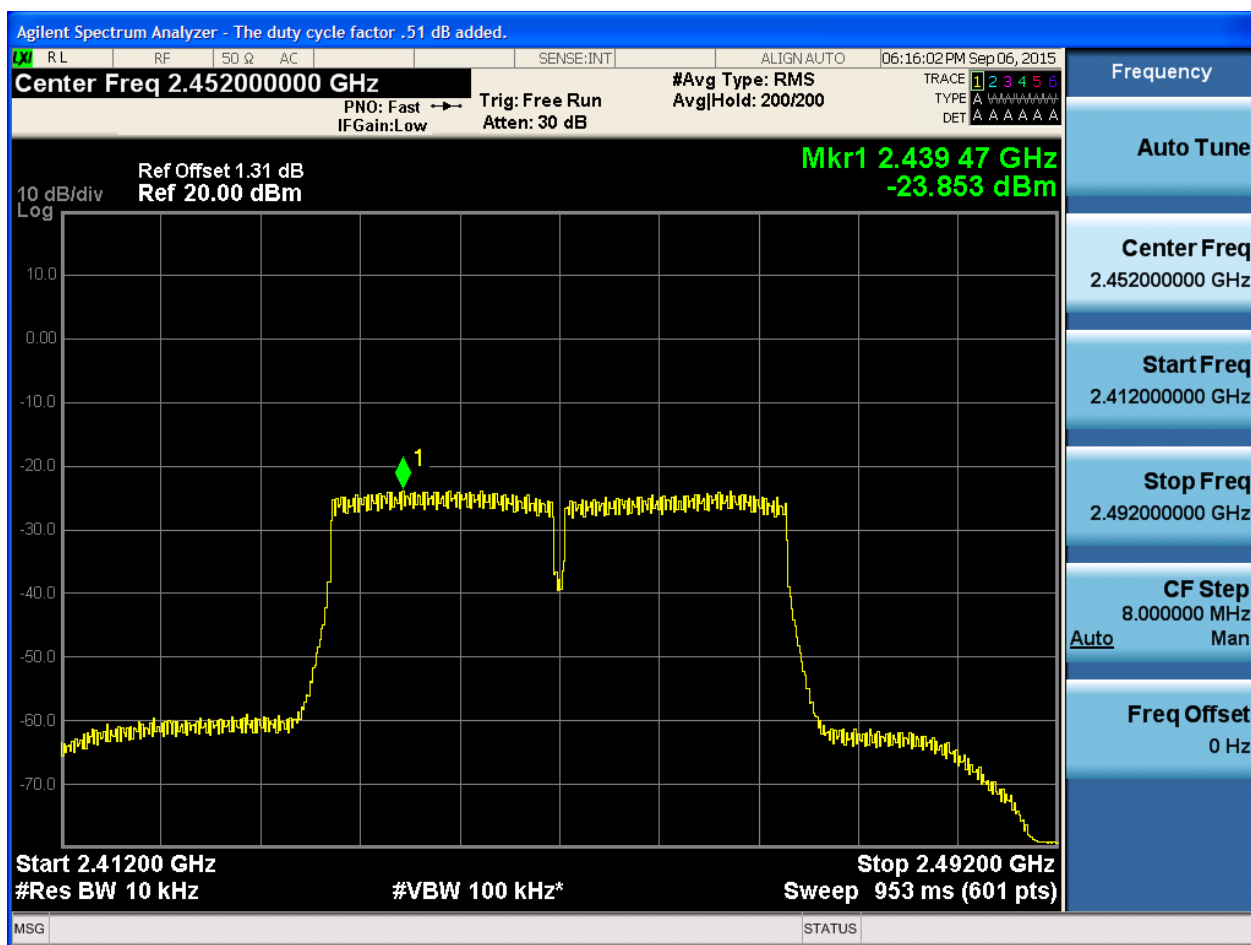


2.23 11N40_H@Ant 1



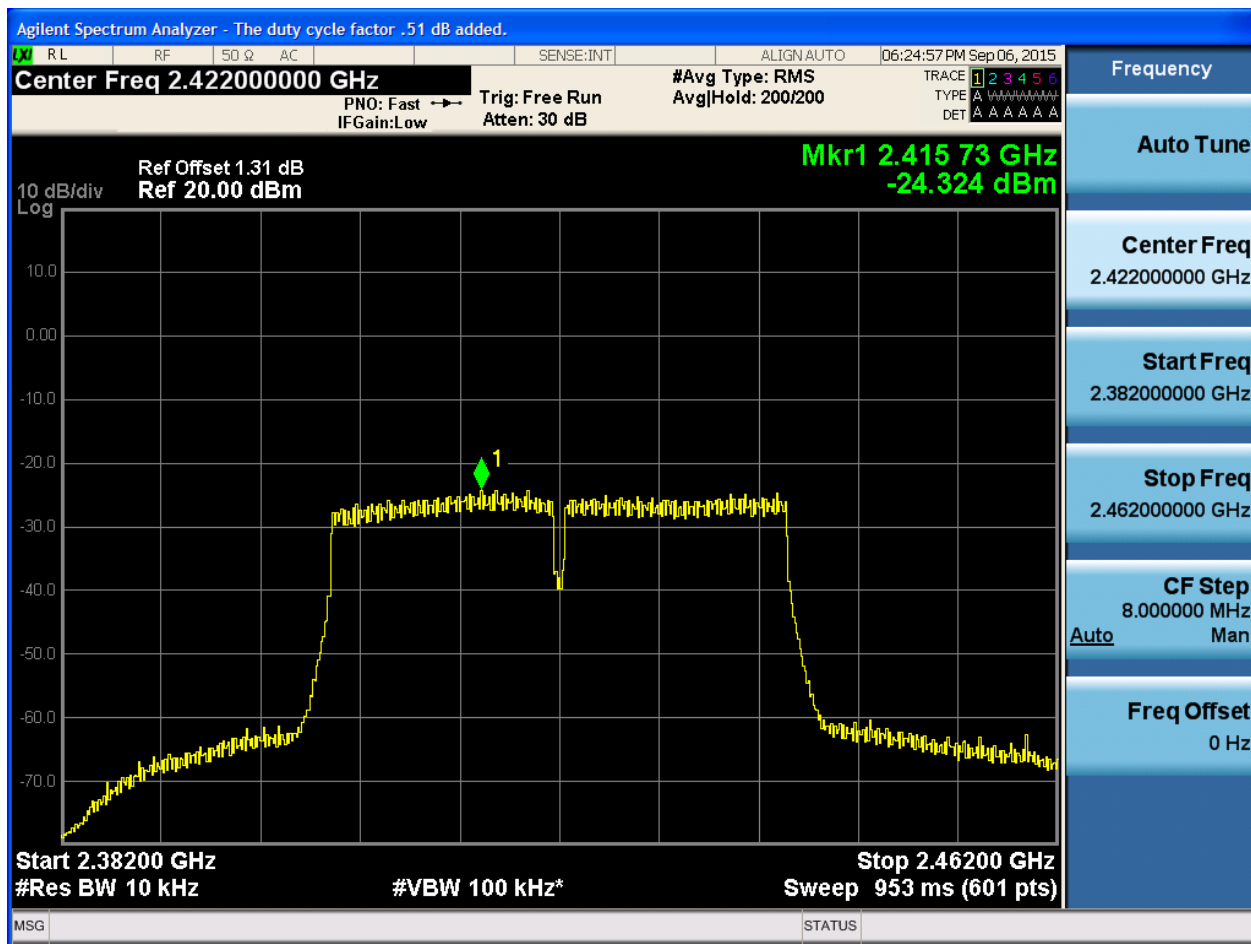


2.24 11N40_H@Ant 2



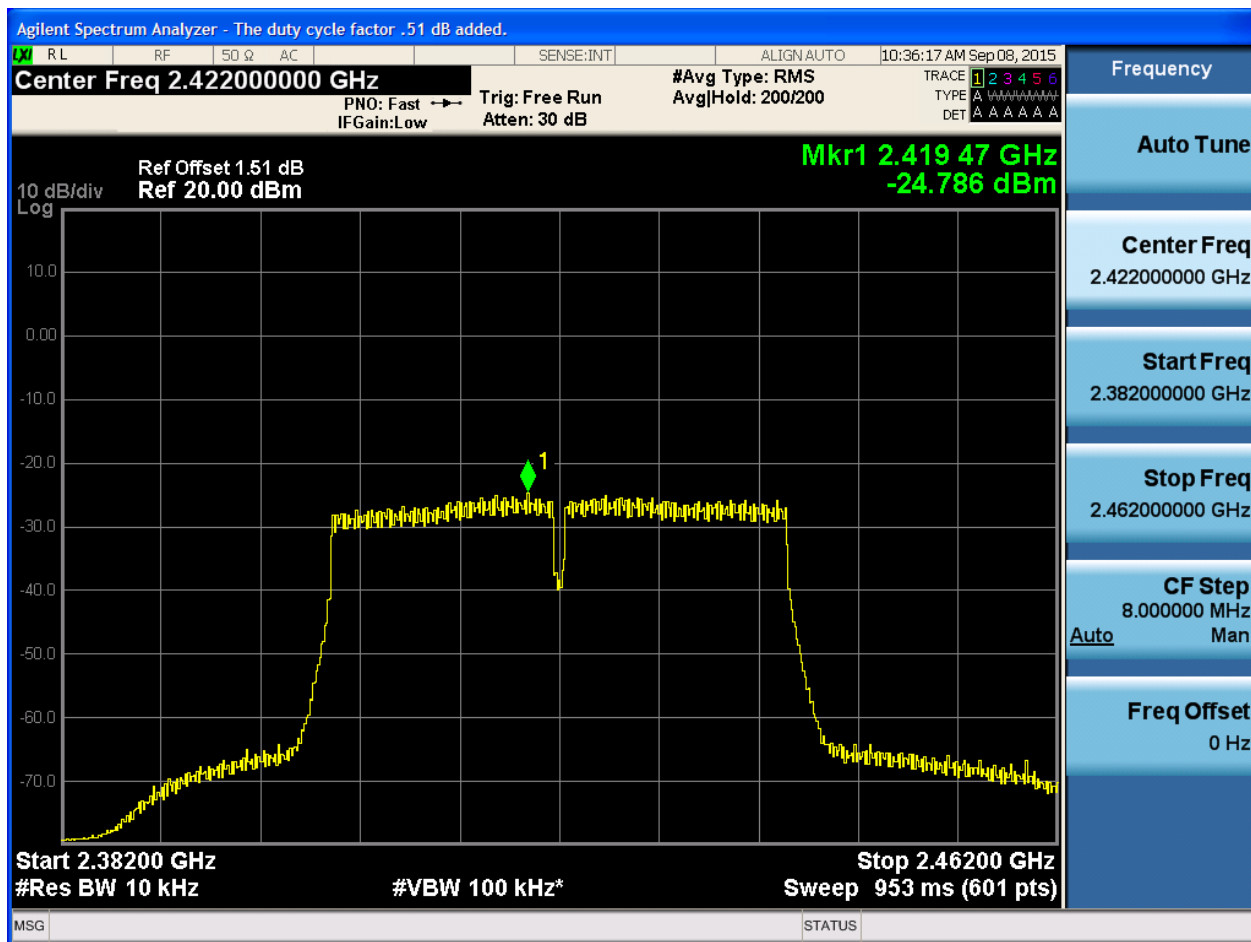


2.32 11N40m_L@Ant 2



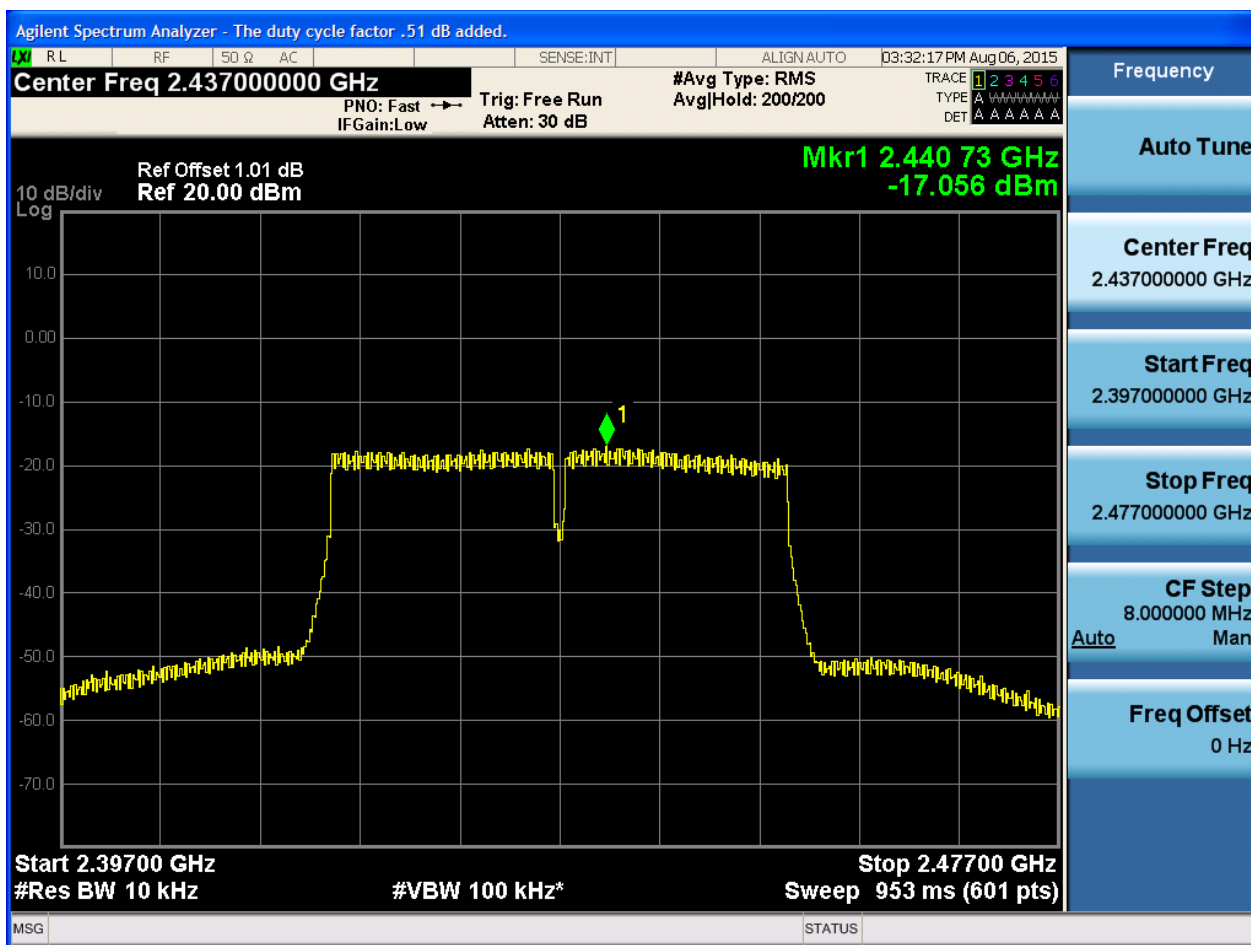


2.31 11N40m_L@Ant 1



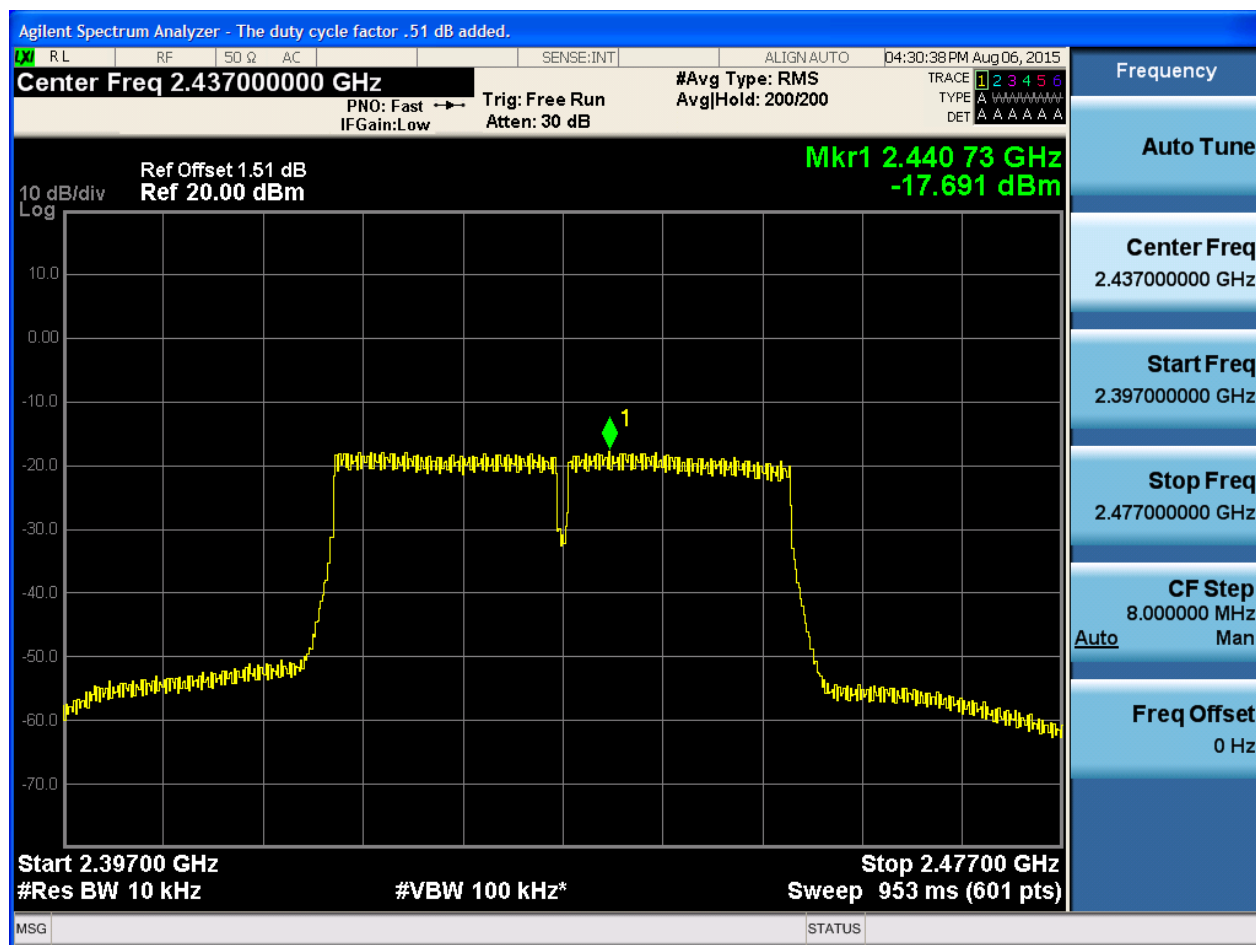


2.34 11N40m_M@Ant 2



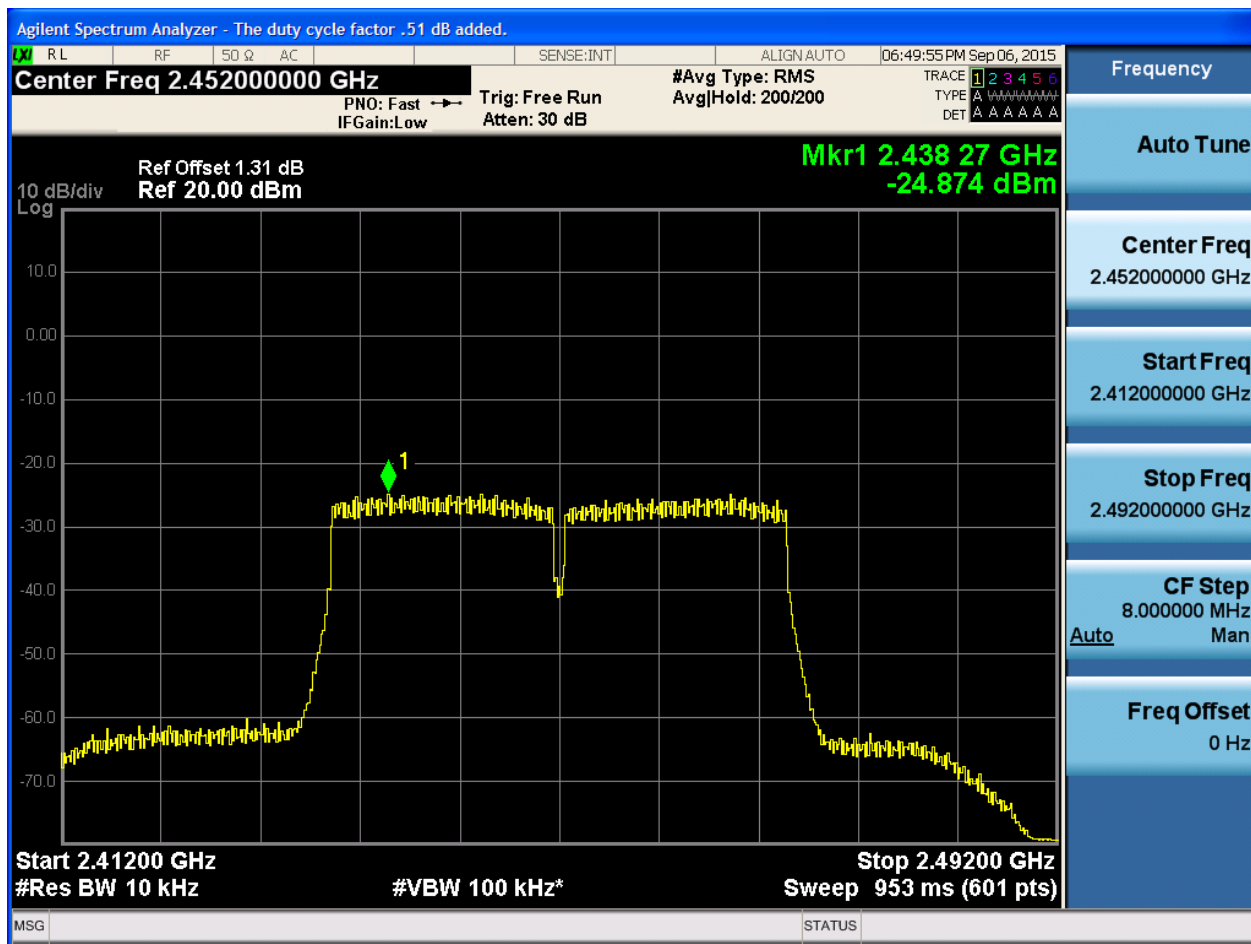


2.33 11N40m_M@Ant 1



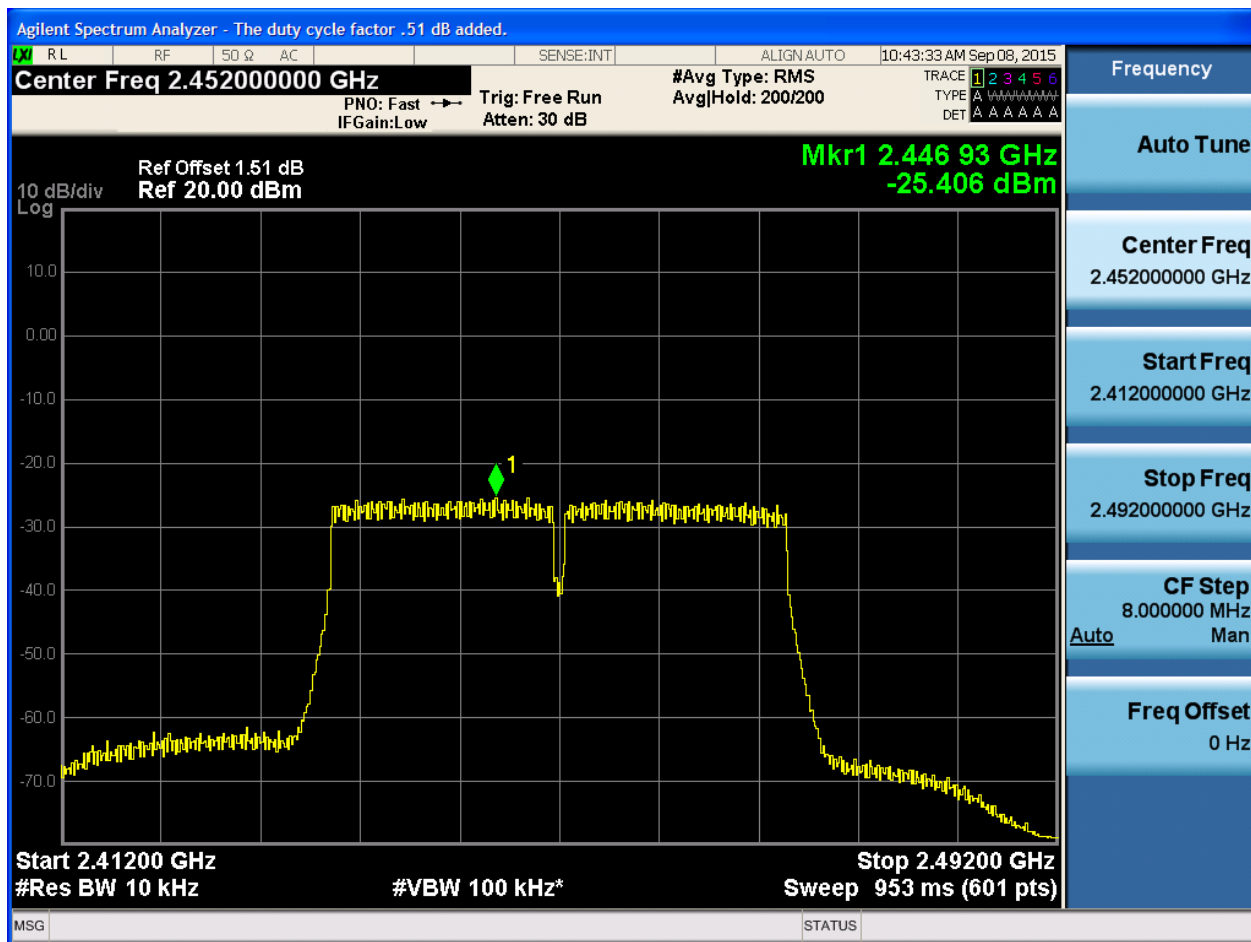


2.36 11N40m_H@Ant 2



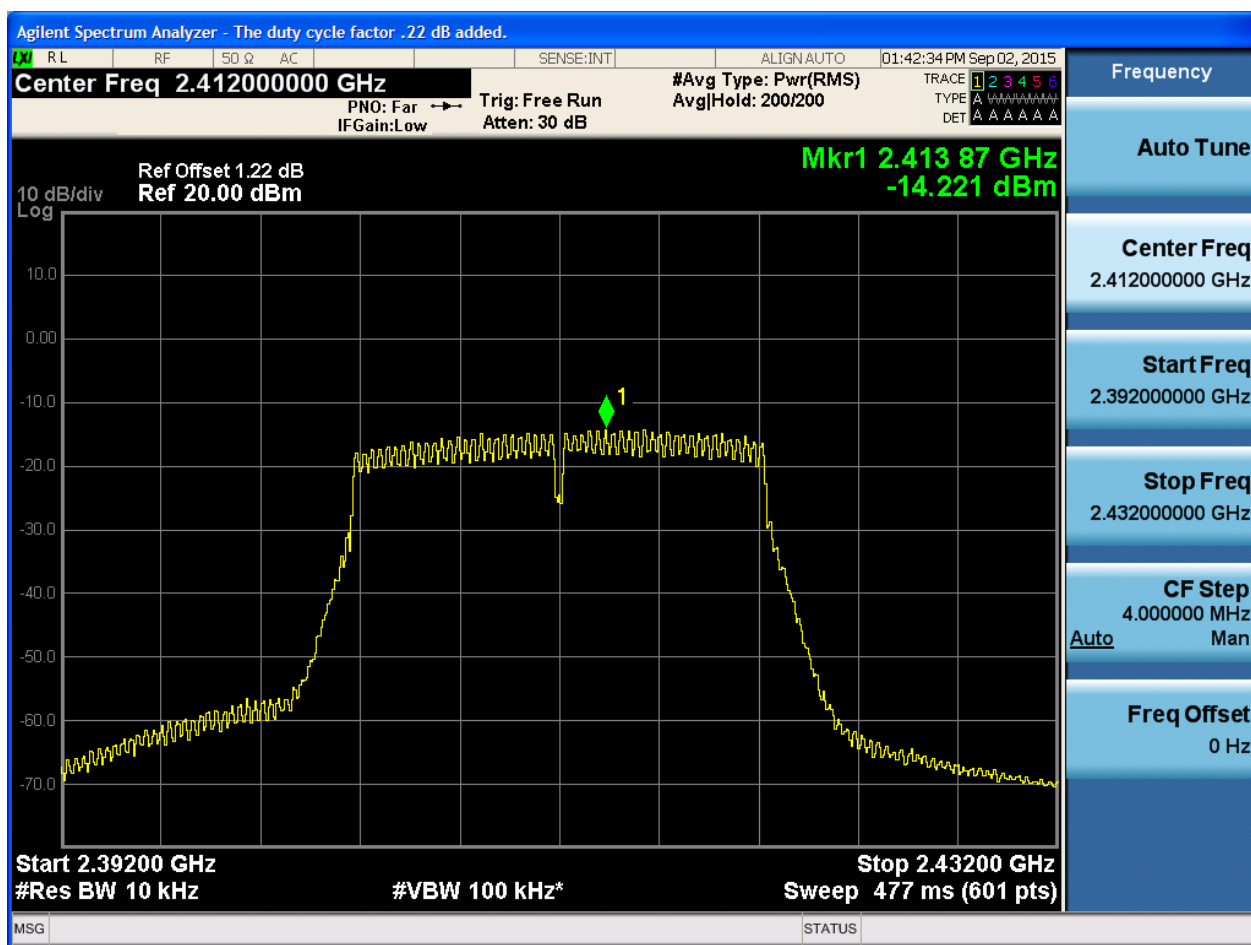


2.35 11N40m_H@Ant 1



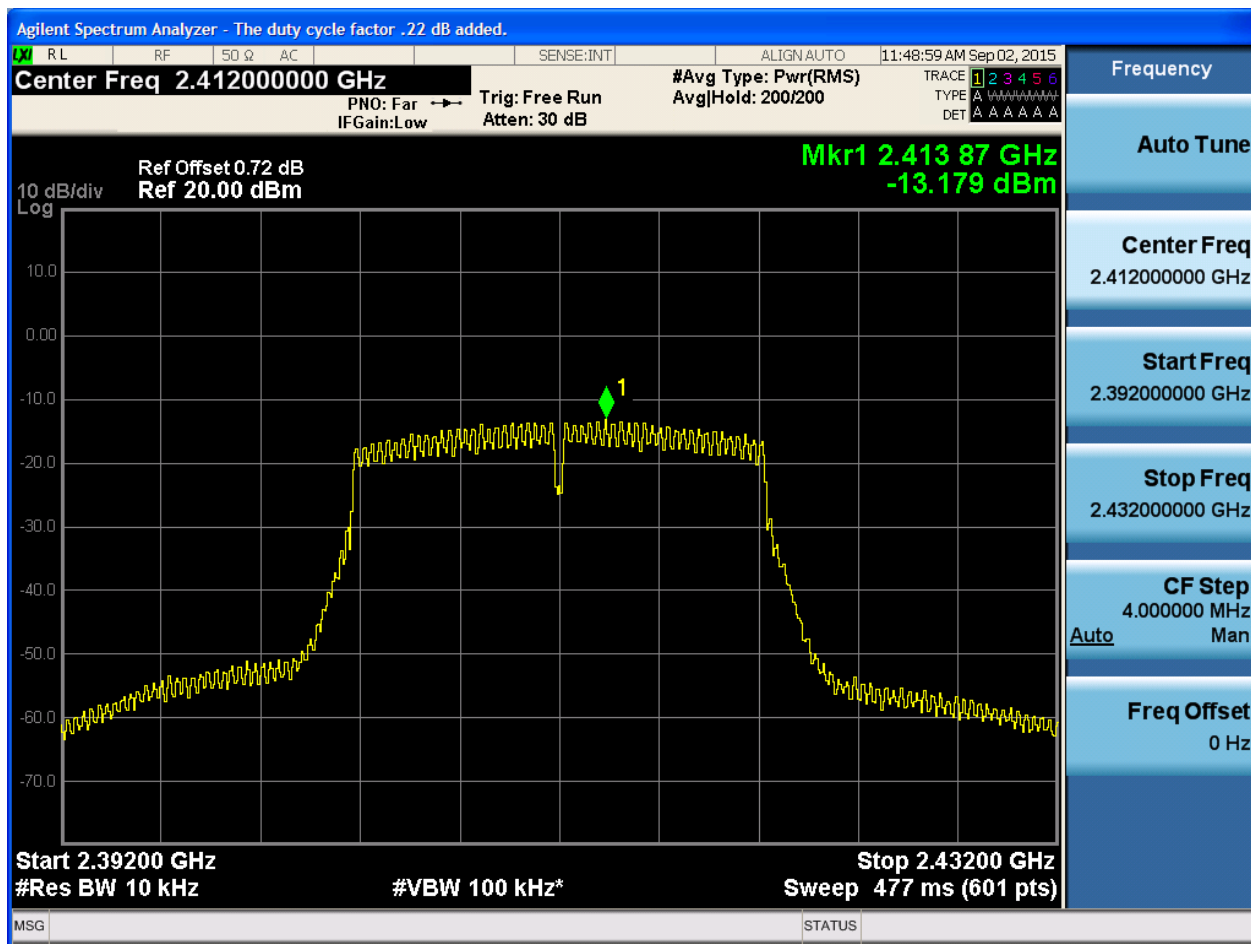


2.36 11G CDD_L@Ant 1





2.37 11G CDD_L@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .22 dB added.

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:47:31 PM Sep 02, 2015

Center Freq 2.437000000 GHz #Avg Type: Pwr(RMS) AvgHold: 200/200

PNO: Far Trg: Free Run
IFGain: Low Atten: 30 dB

TRACE 1 2 3 4 5 6
TYPE A W W W W W W W W
DET A A A A A A

Ref Offset 1.22 dB
Ref 20.00 dBm

Mkr1 2.433 87 GHz
-10.669 dBm

10 dB/div
Log

Start 2.41700 GHz Stop 2.45700 GHz
#Res BW 10 kHz #VBW 100 kHz* Sweep 477 ms (601 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.417000000 GHz

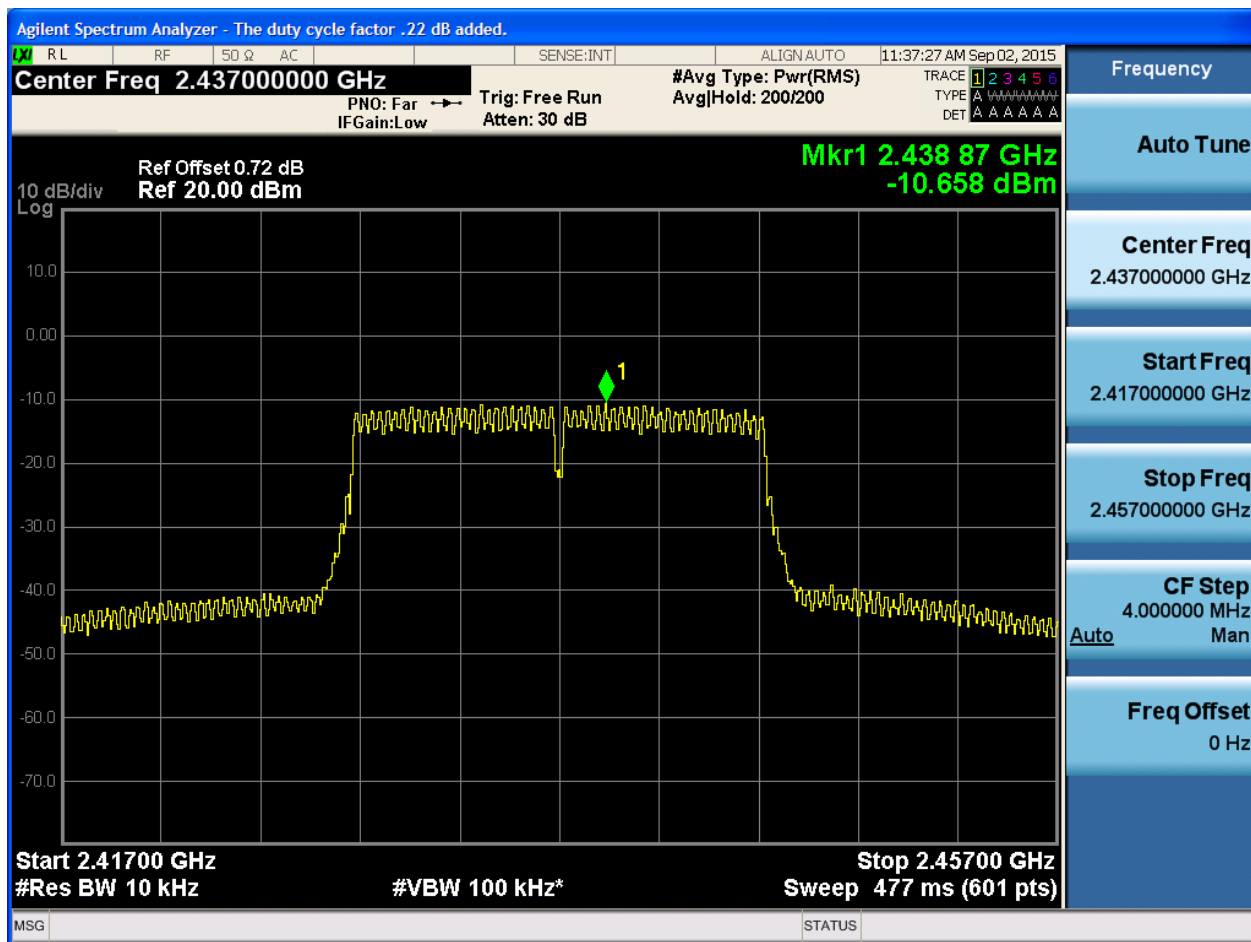
Stop Freq
2.457000000 GHz

CF Step
4.000000 MHz
Auto Man

Freq Offset
0 Hz

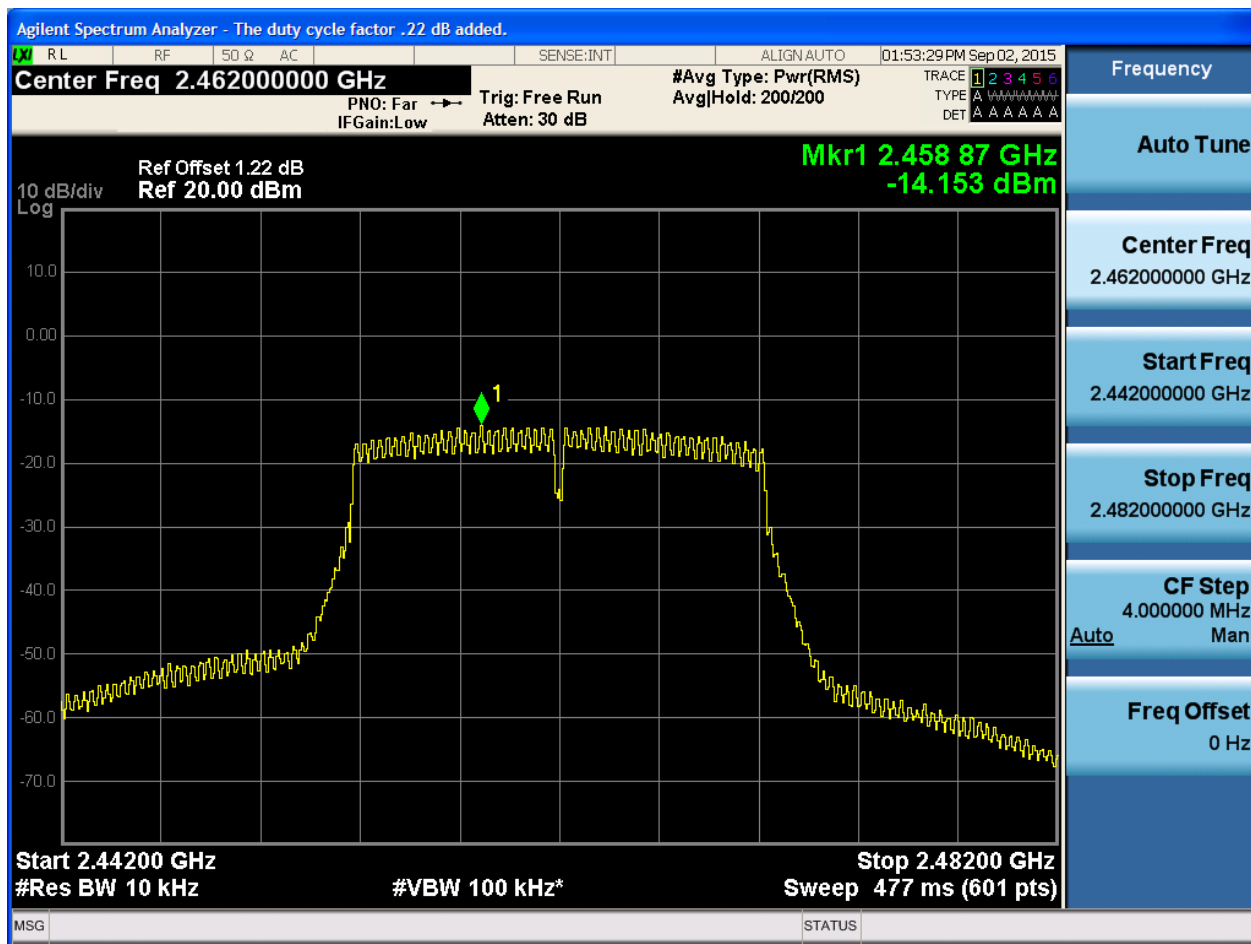


2.39 11G CDD_M@Ant 2



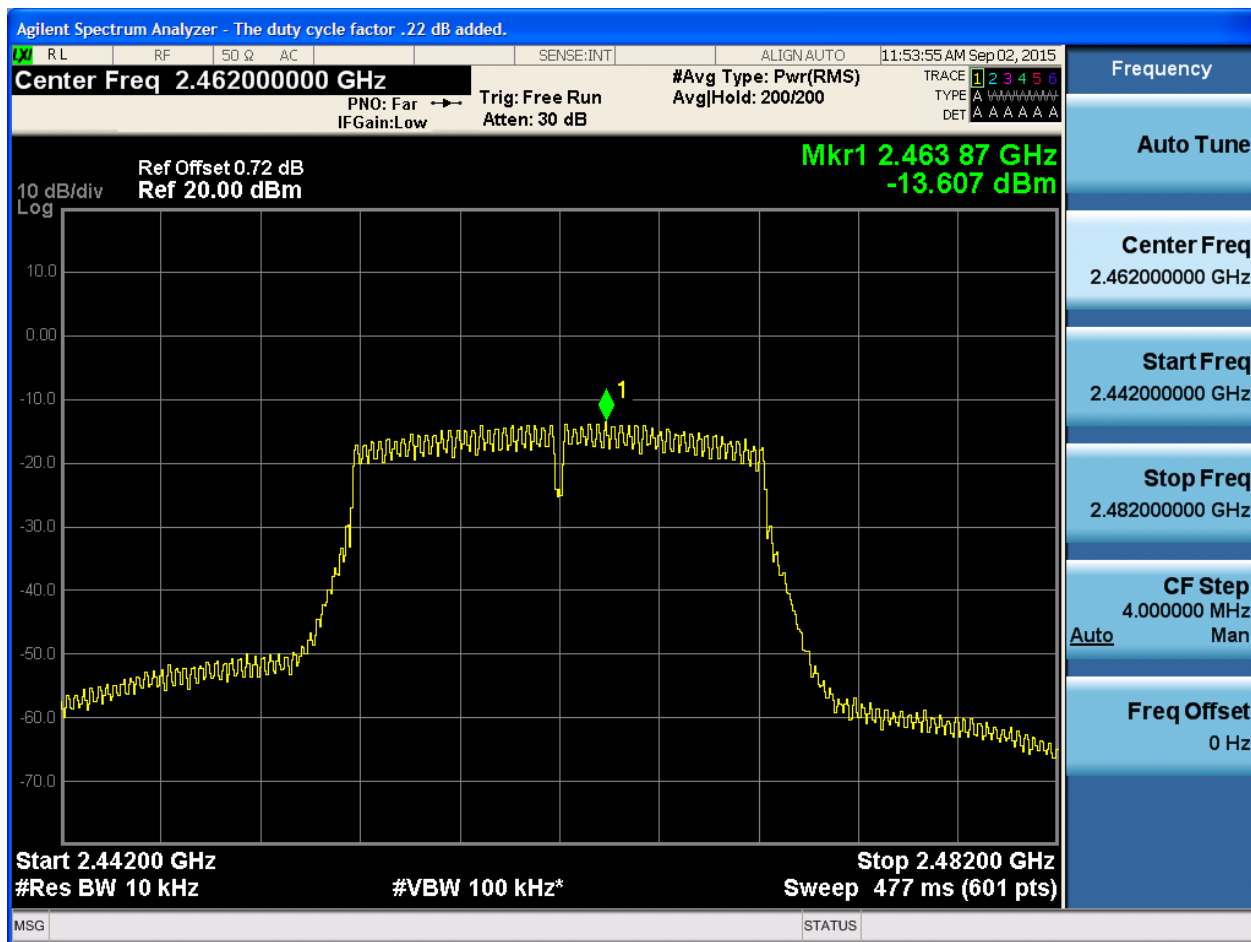


2.40 11G CDD_H@Ant 1





2.41 11G CDD_H@Ant 2



Appendix F: Band Edges Compliance

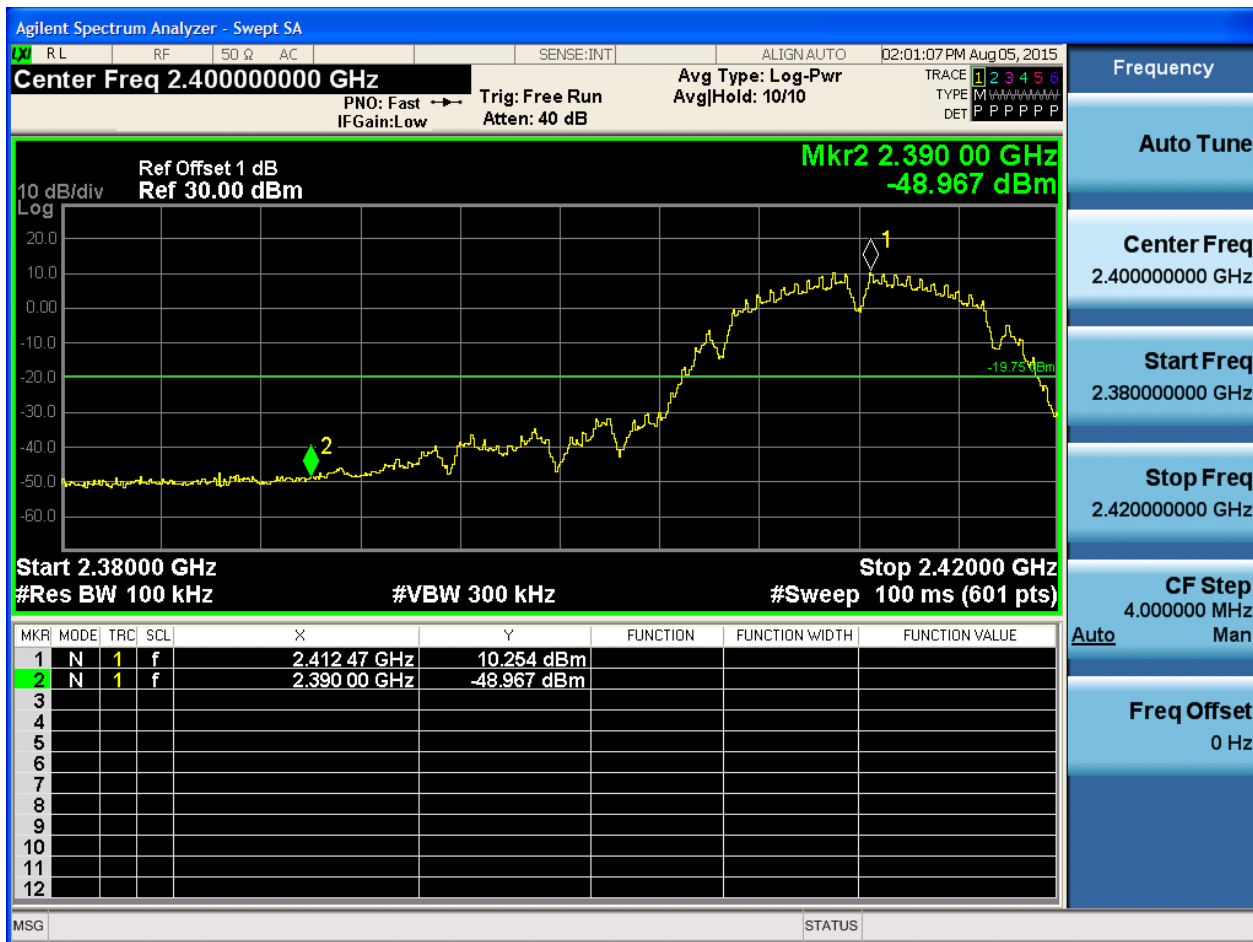
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2412	Ant 1	10.25	-48.97	pass
11B	L	2412	Ant 2	10.62	-46.72	pass
11B	H	2462	Ant 1	10.54	-45.69	pass
11B	H	2462	Ant 2	10.57	-45.18	pass
11G	L	2412	Ant 1	5.36	-47.87	pass
11G	L	2412	Ant 2	6.18	-45.88	pass
11G	H	2462	Ant 1	5.24	-45.36	pass
11G	H	2462	Ant 2	5.68	-43.24	pass
11N20	L	2412	Ant 1	5.22	-46.08	pass
11N20	L	2412	Ant 2	5.88	-43.95	pass
11N20	H	2462	Ant 1	5.24	-40.47	pass
11N20	H	2462	Ant 2	5.51	-38.47	pass
11N20m	L	2412	Ant 2	5.85	-43.78	pass
11N20m	L	2412	Ant 1	5.34	-43.82	pass
11N20m	H	2462	Ant 2	5.47	-39.67	pass
11N20m	H	2462	Ant 1	5.04	-40.17	pass
11N40	L	2422	Ant 1	1.64	-47.61	pass
11N40	L	2422	Ant 2	2.18	-46.11	pass
11N40	H	2452	Ant 1	0.46	-46.19	pass
11N40	H	2452	Ant 2	1.44	-42.87	pass
11N40m	L	2422	Ant 2	2.51	-46.47	pass
11N40m	L	2422	Ant 1	1.92	-48.05	pass
11N40m	H	2452	Ant 2	1.66	-44.70	pass
11N40m	H	2452	Ant 1	0.45	-47.30	pass
11G CDD	L	2412	Ant 1	5.36	-50.36	pass
11G CDD	L	2412	Ant 2	6.18	-48.23	pass
11G CDD	H	2462	Ant 1	5.24	-46.46	pass
11G CDD	H	2462	Ant 2	5.68	-45.52	pass



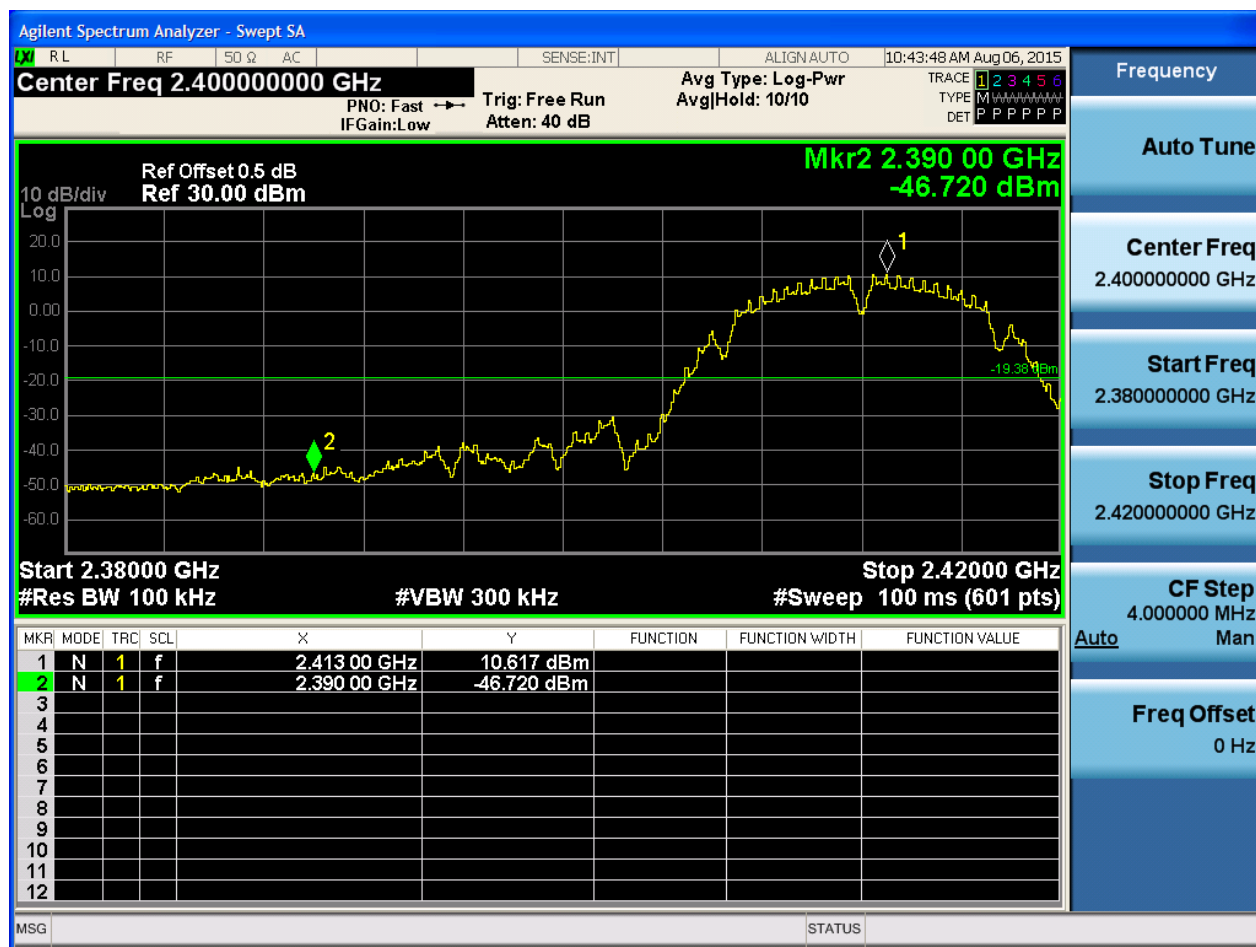
Part II - Test Plots

2.1 11B_L@Ant 1



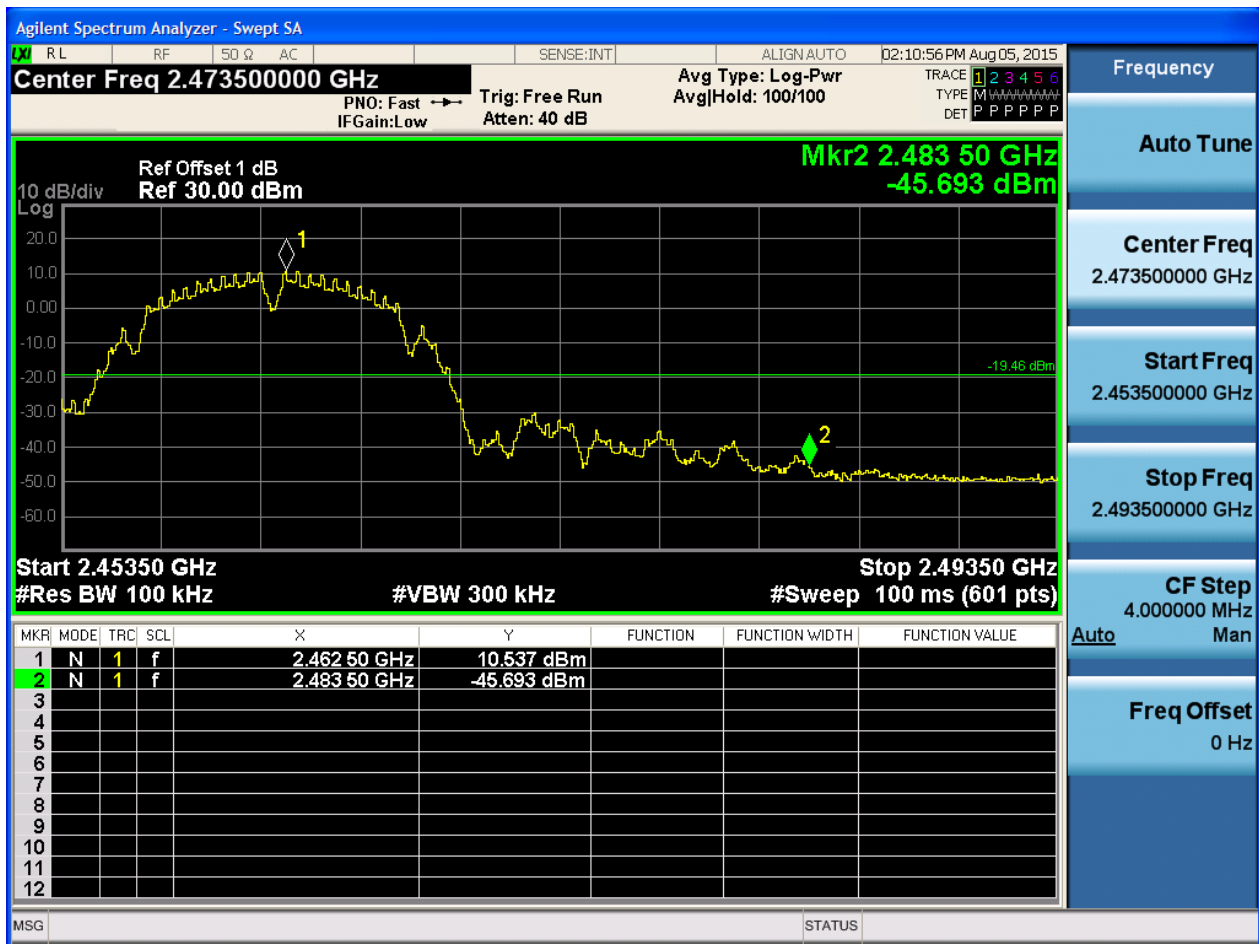


2.2 11B_L@Ant 2





2.3 11B_H@Ant 1



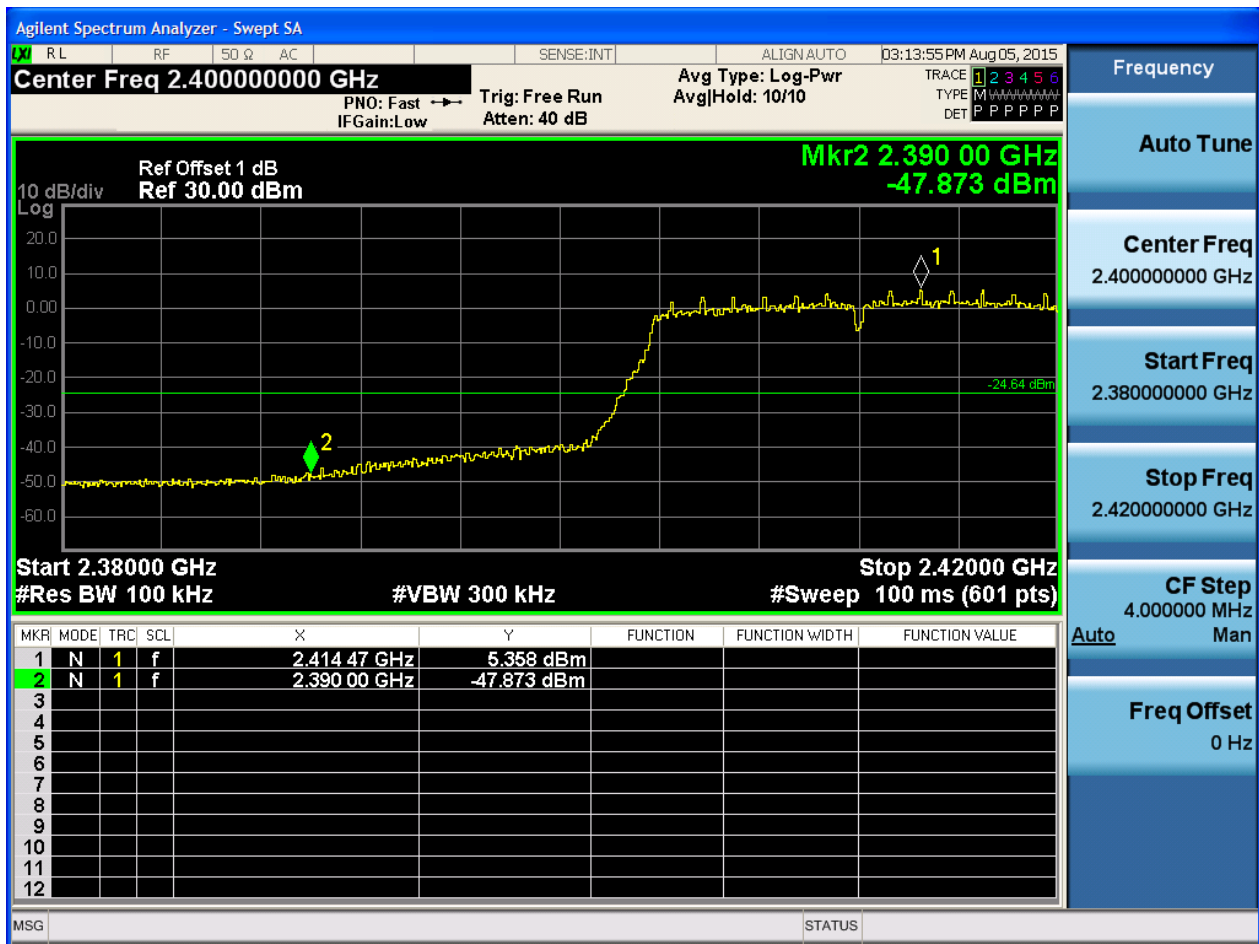


2.4 11B_H@Ant 2



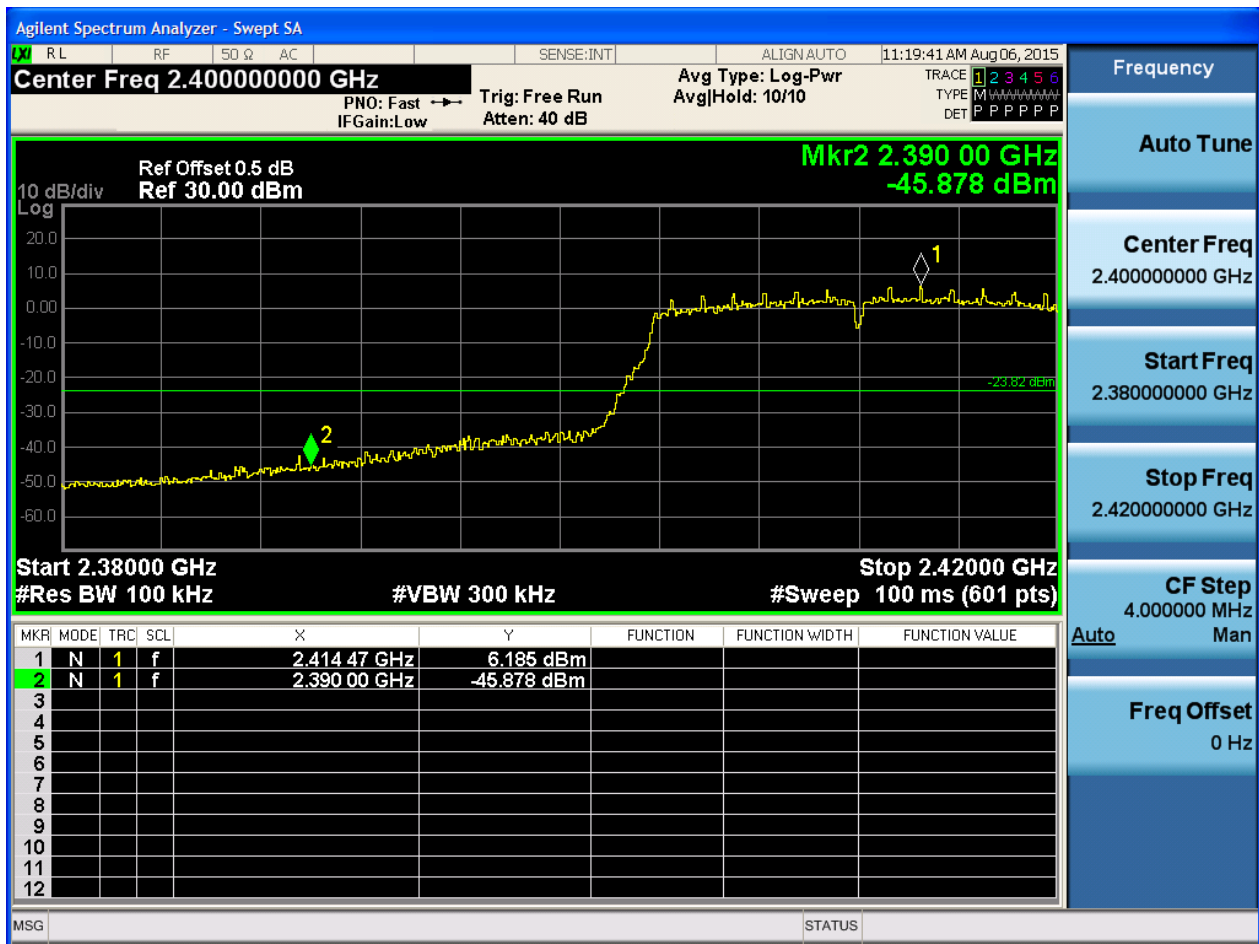


2.5 11G_L@Ant 1



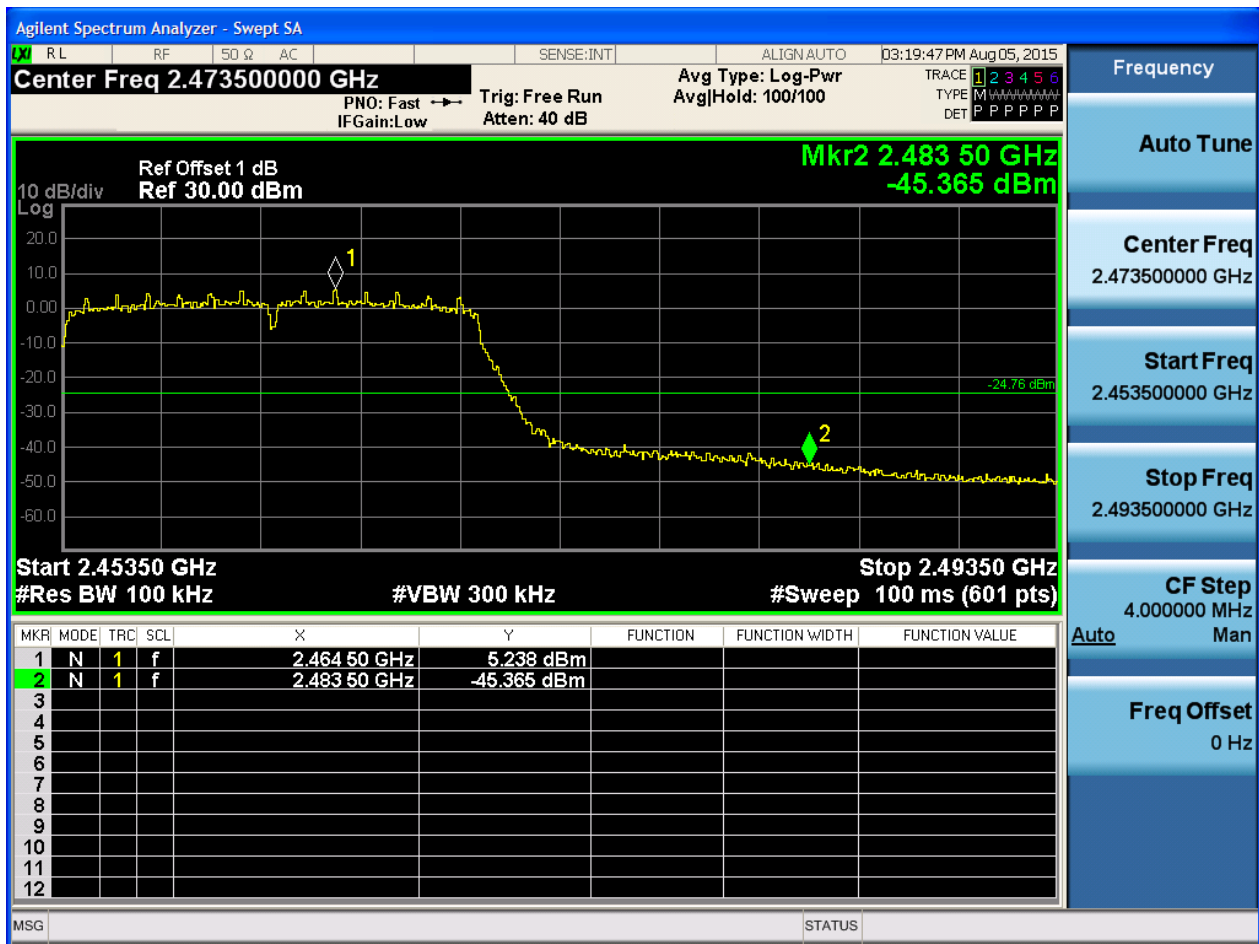


2.6 11G_L@Ant 2



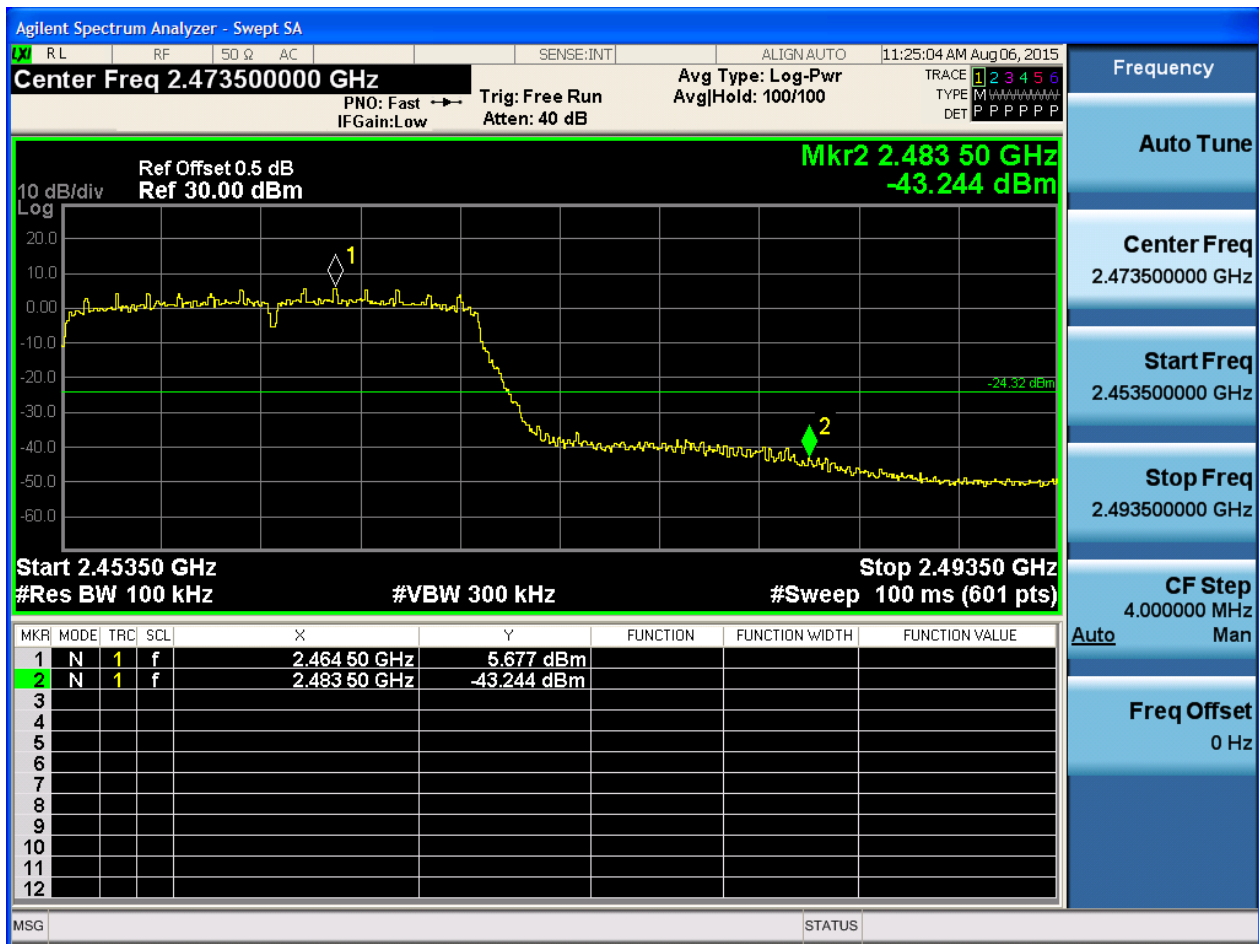


2.7 11G_H@Ant 1



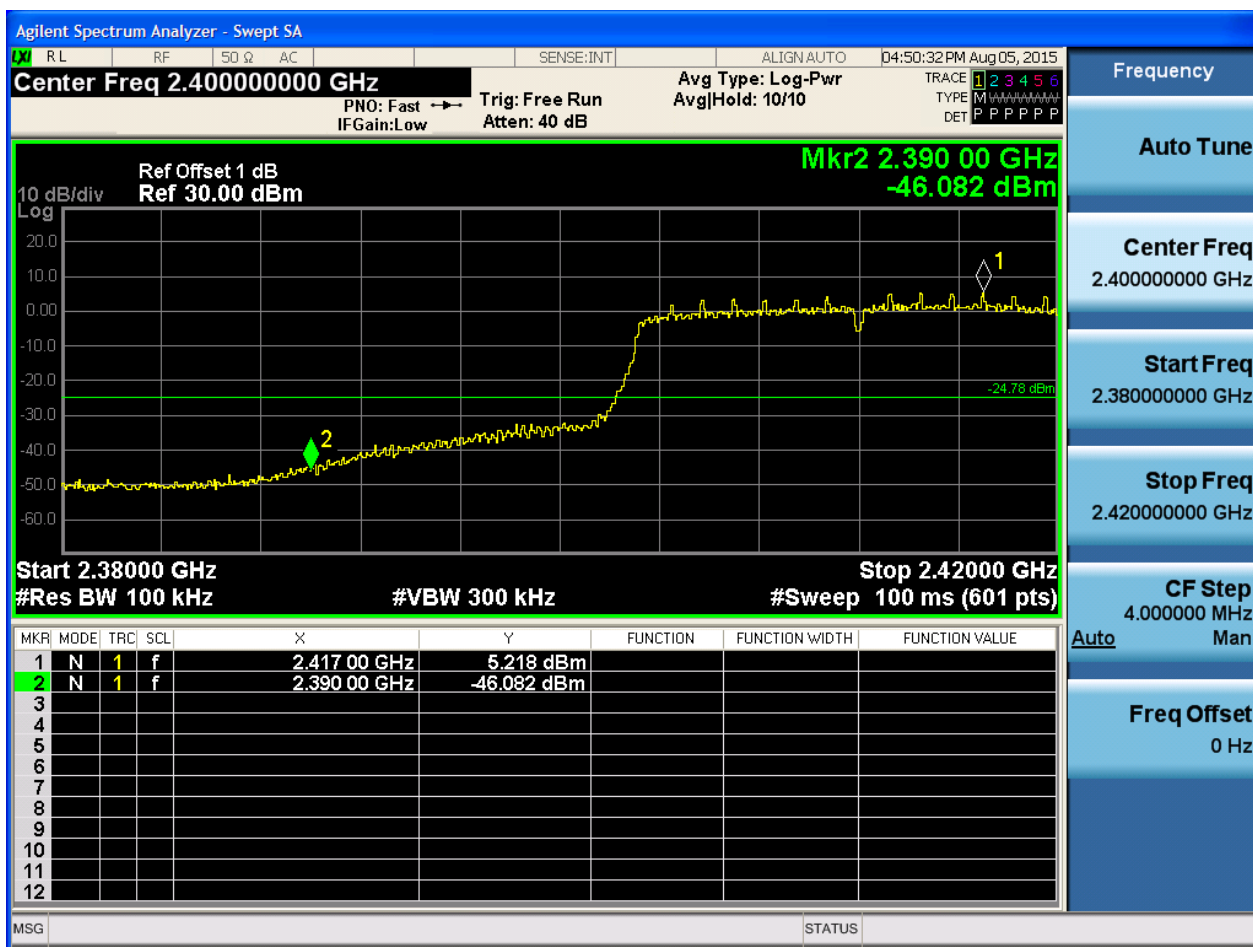


2.8 11G_H@Ant 2



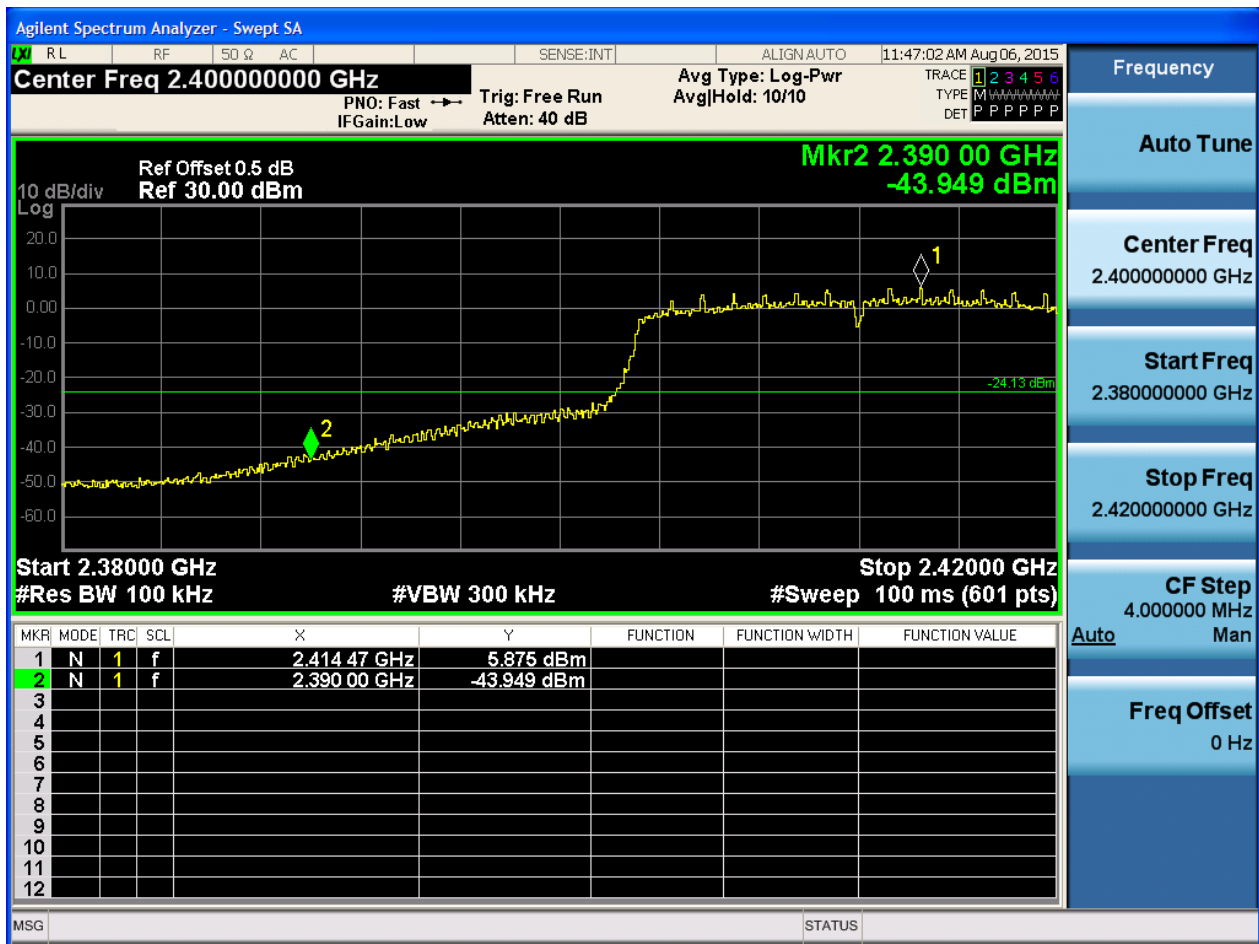


2.9 11N20_L@Ant 1





2.10 11N20_L@Ant 2



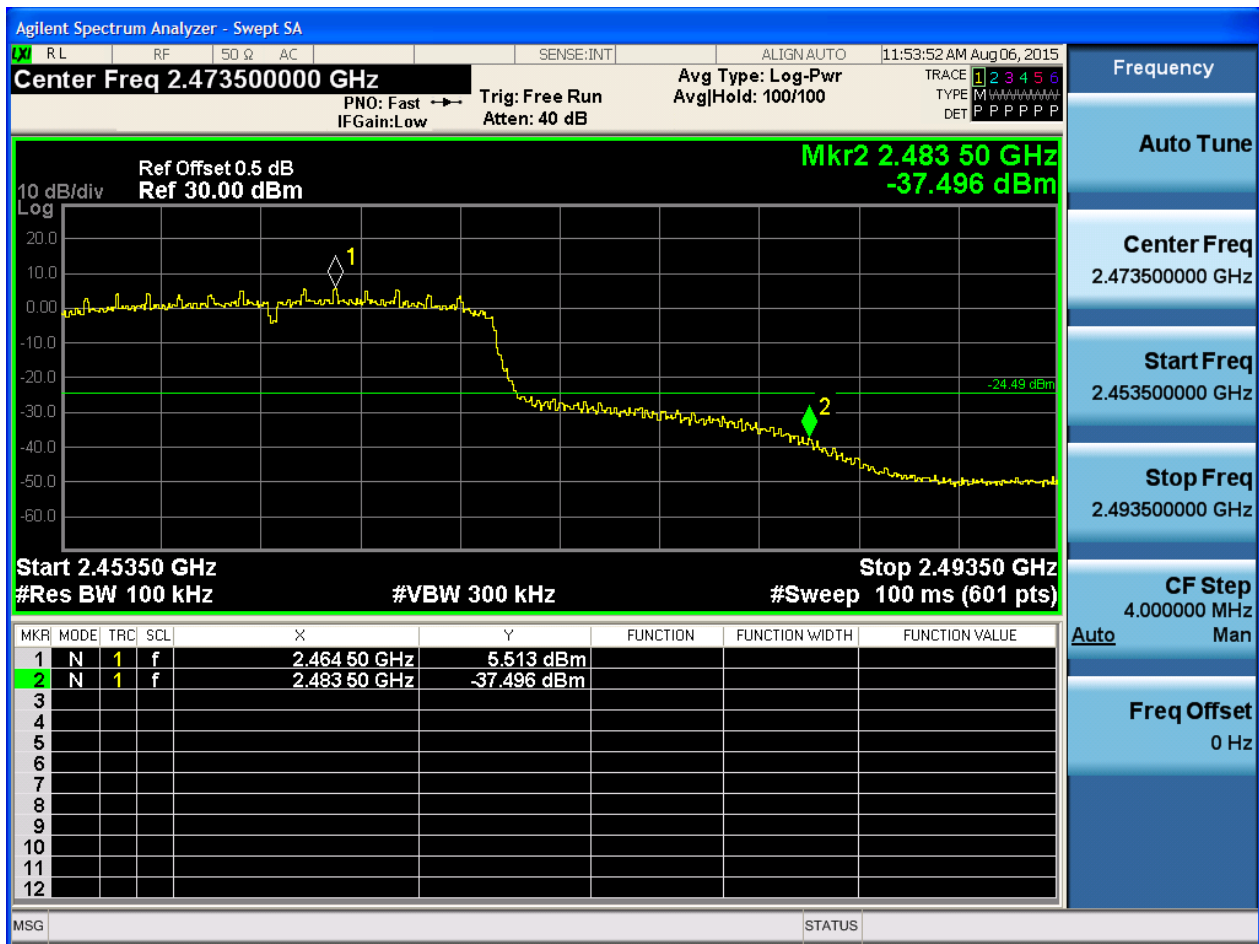


2.11 11N20_H@Ant 1



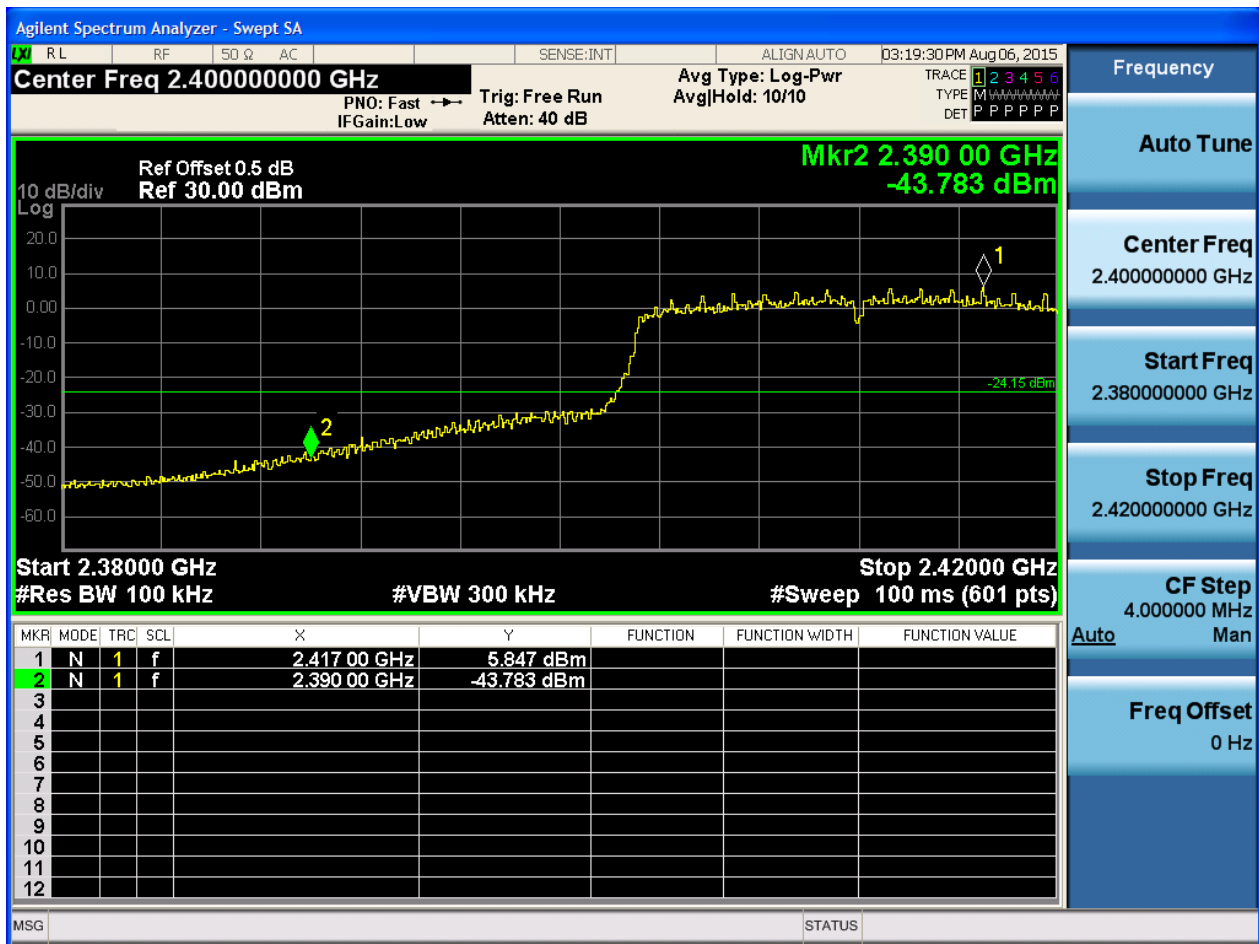


2.12 11N20_H@Ant 2



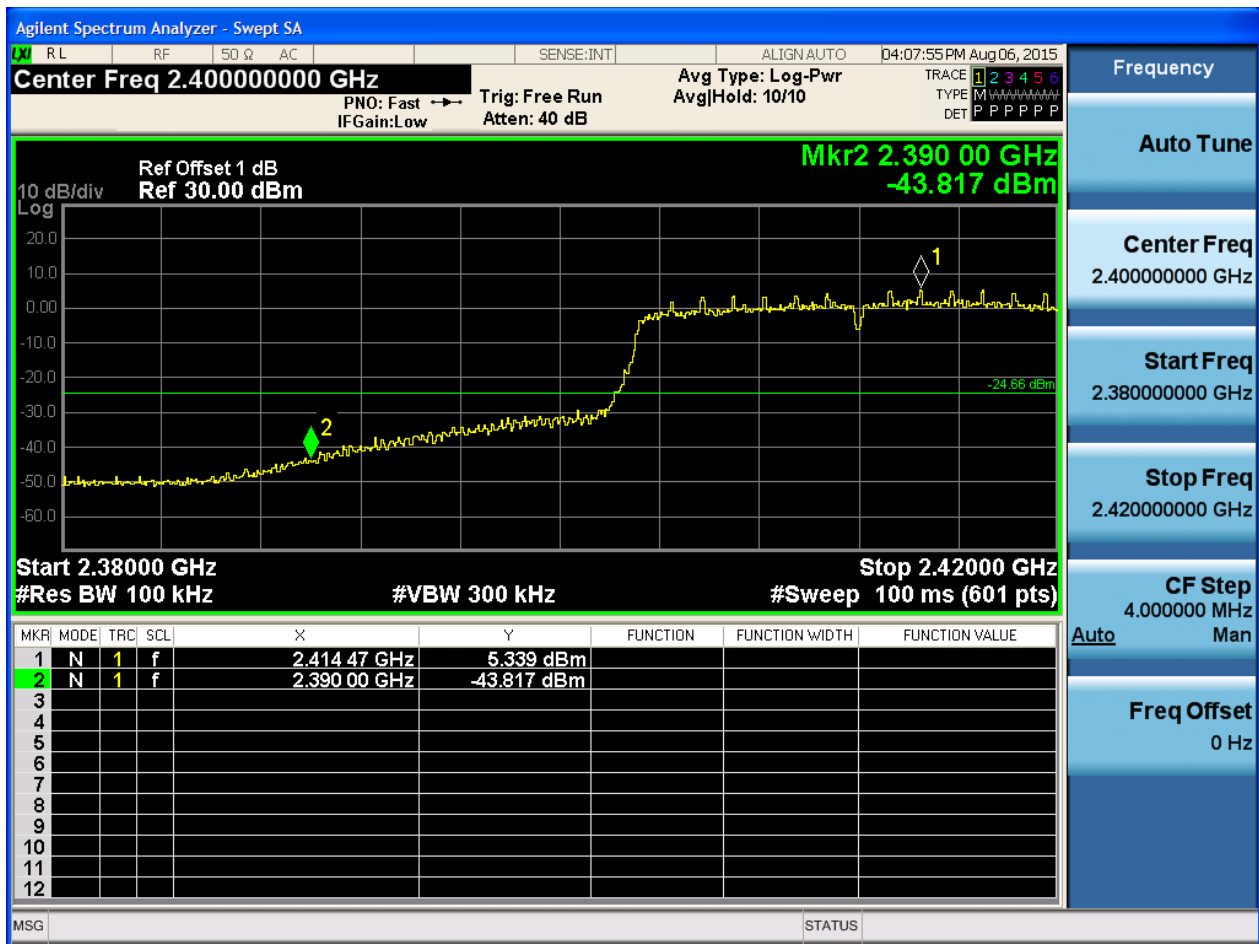


2.10 11N20m_L@Ant 2



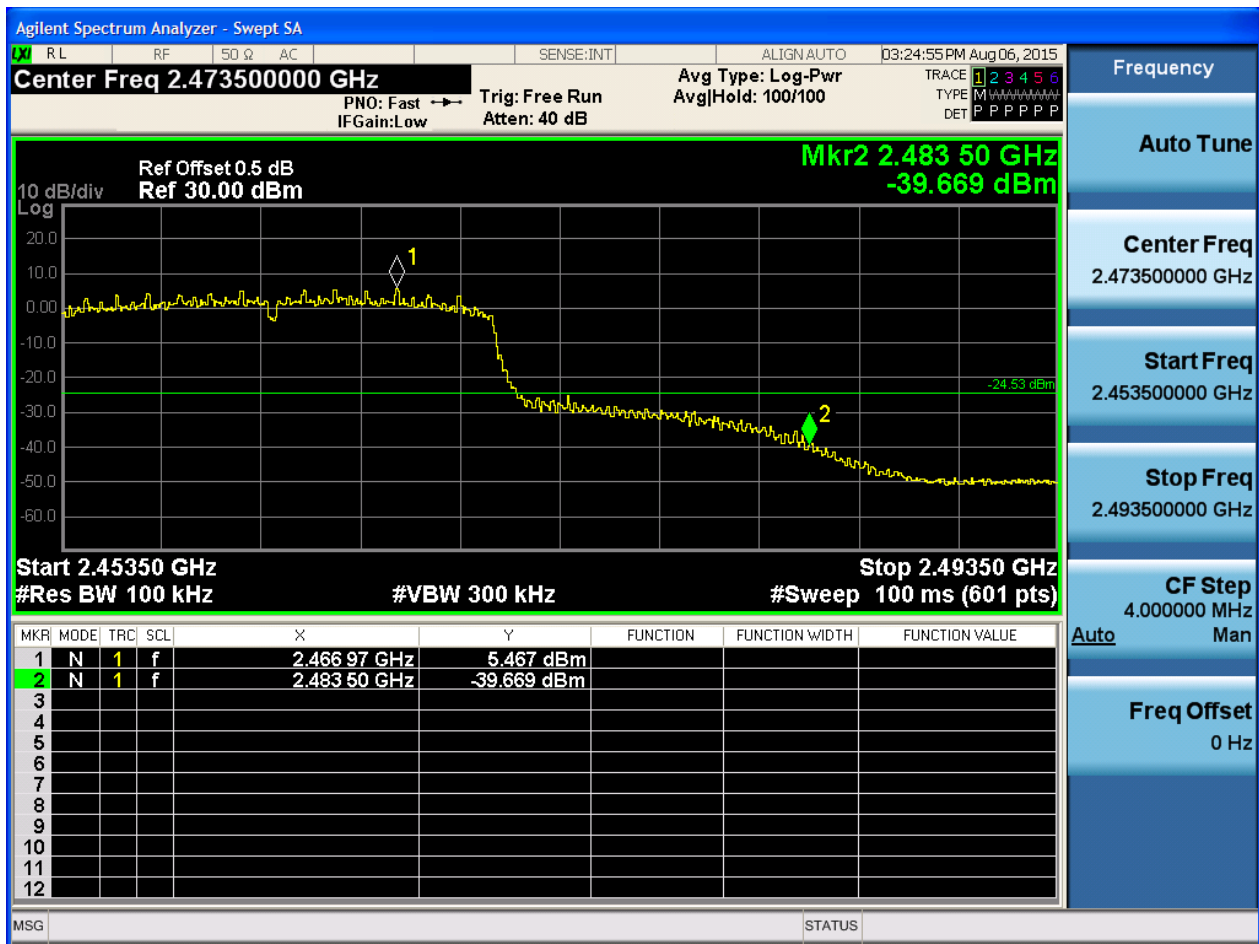


2.9 11N20m_L@Ant 1





2.12 11N20m_H@Ant 2



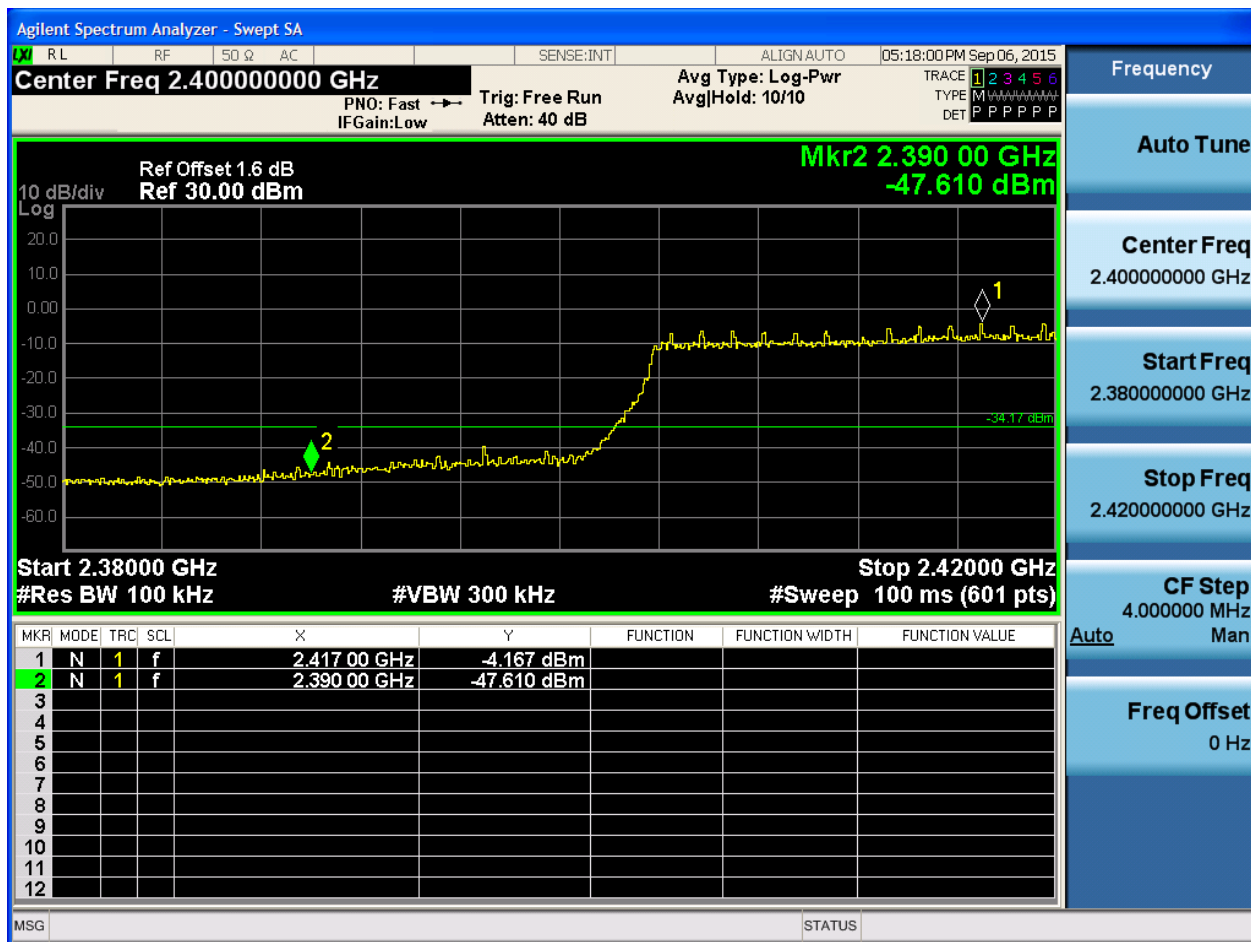


2.11 11N20m_H@Ant 1



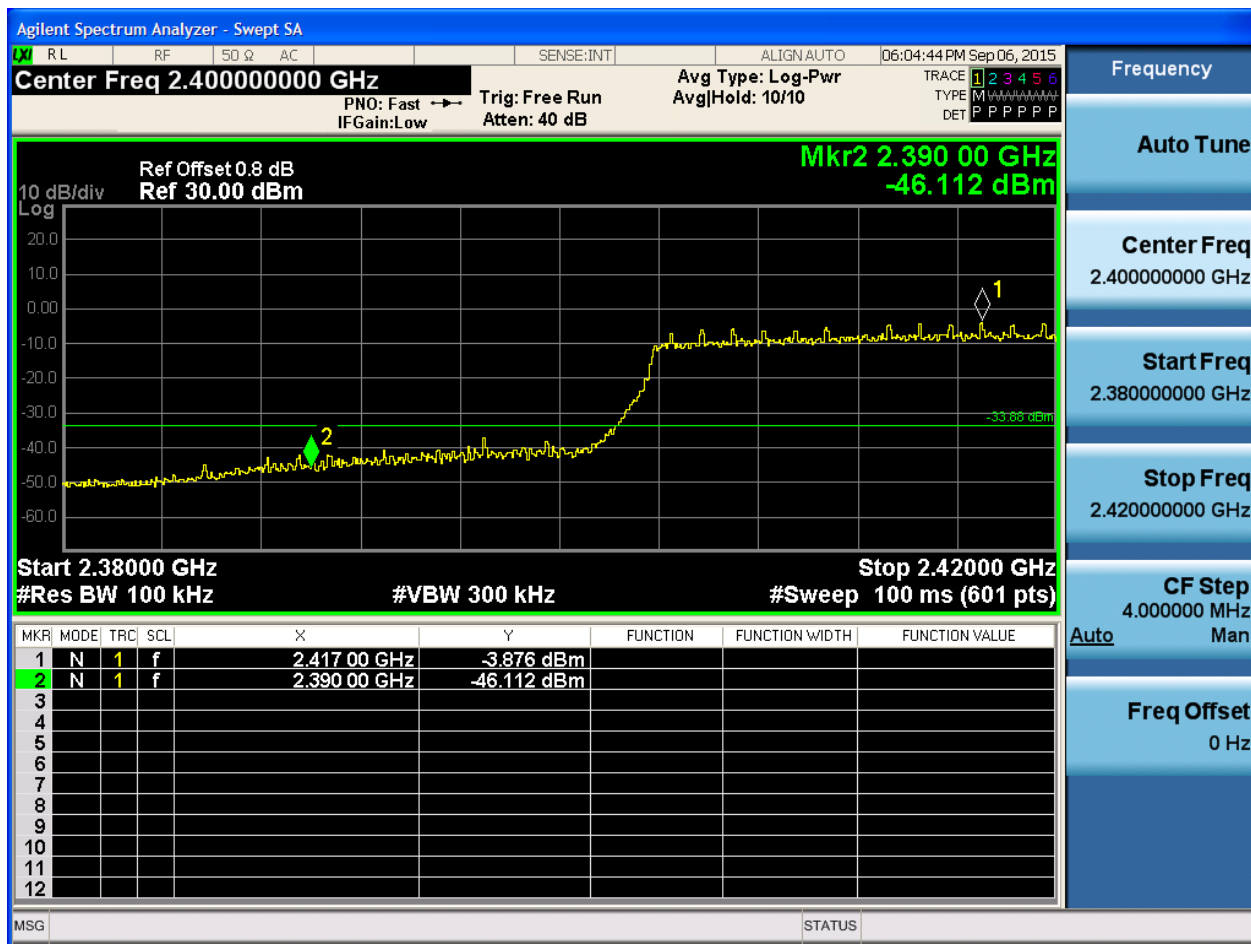


2.13 11N40_L@Ant 1



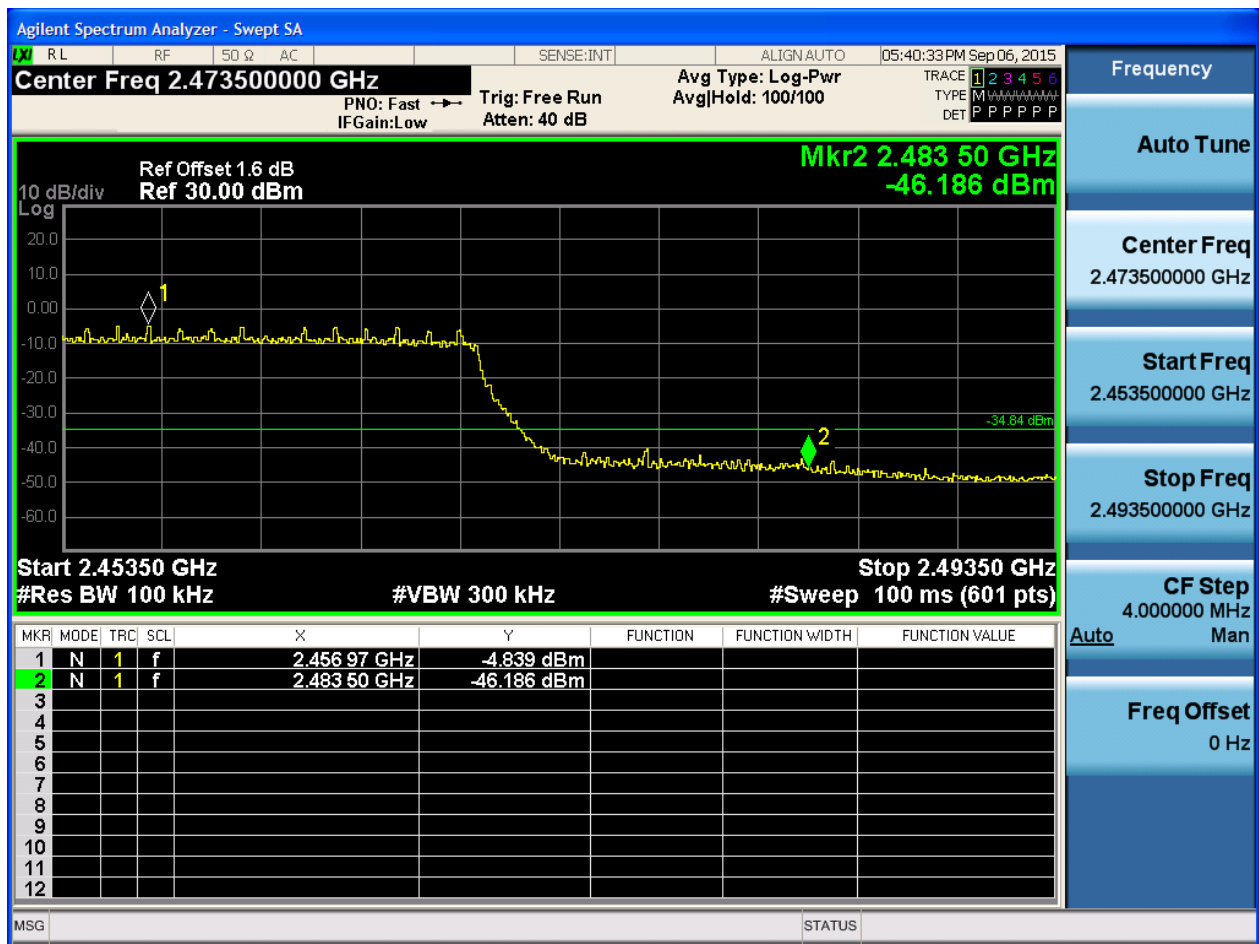


2.14 11N40_L@Ant 2



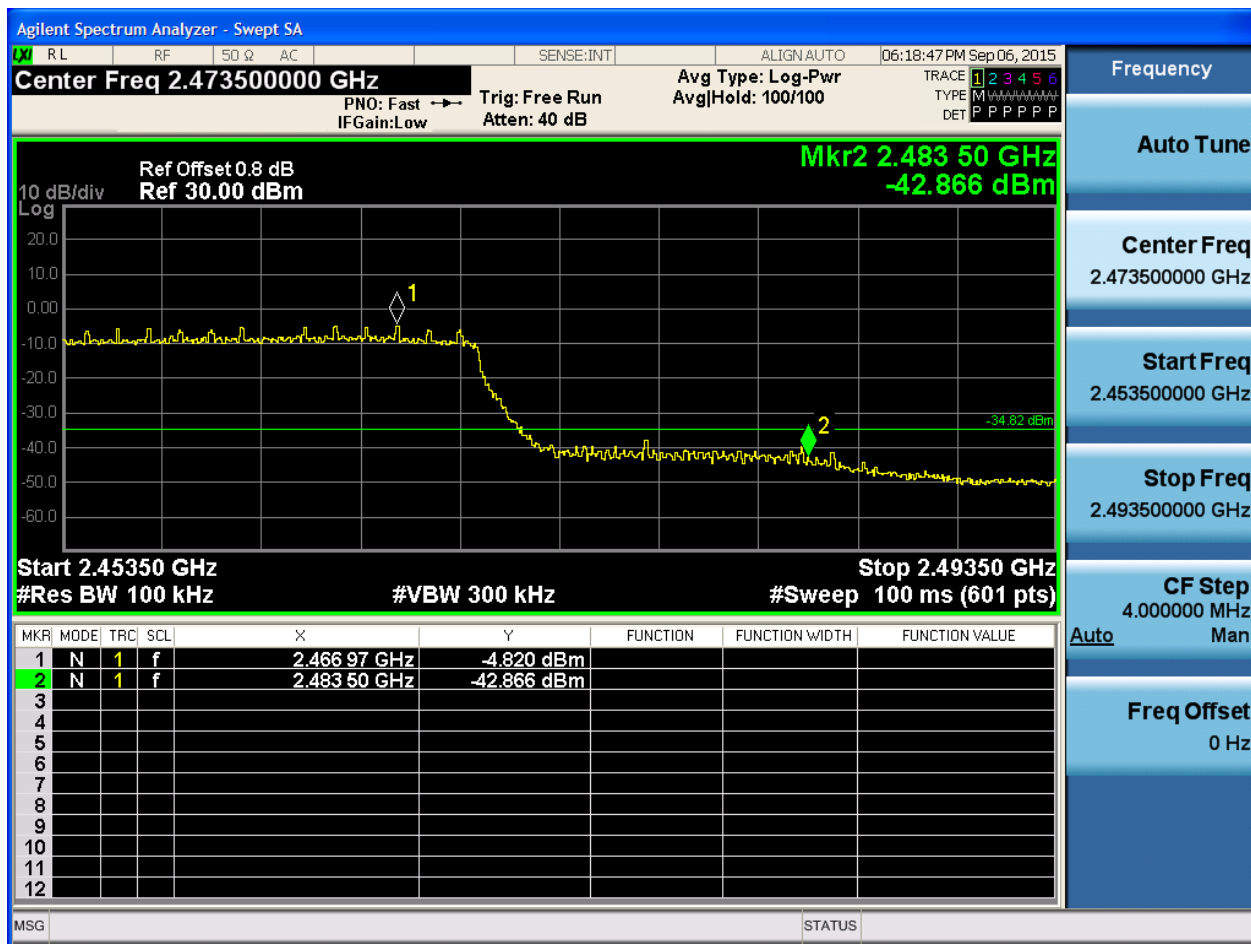


2.15 11N40_H@Ant 1



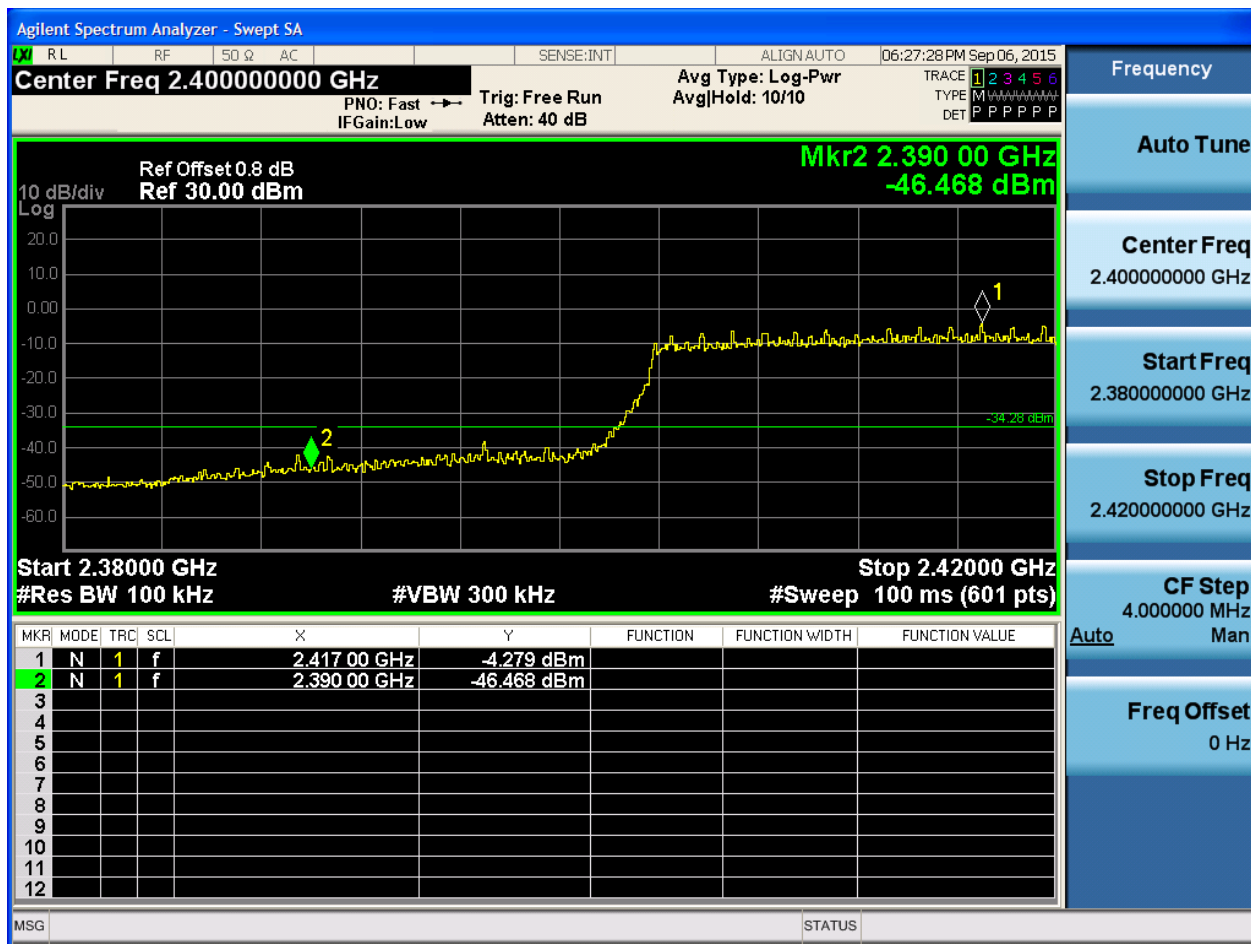


2.16 11N40_H@Ant 2



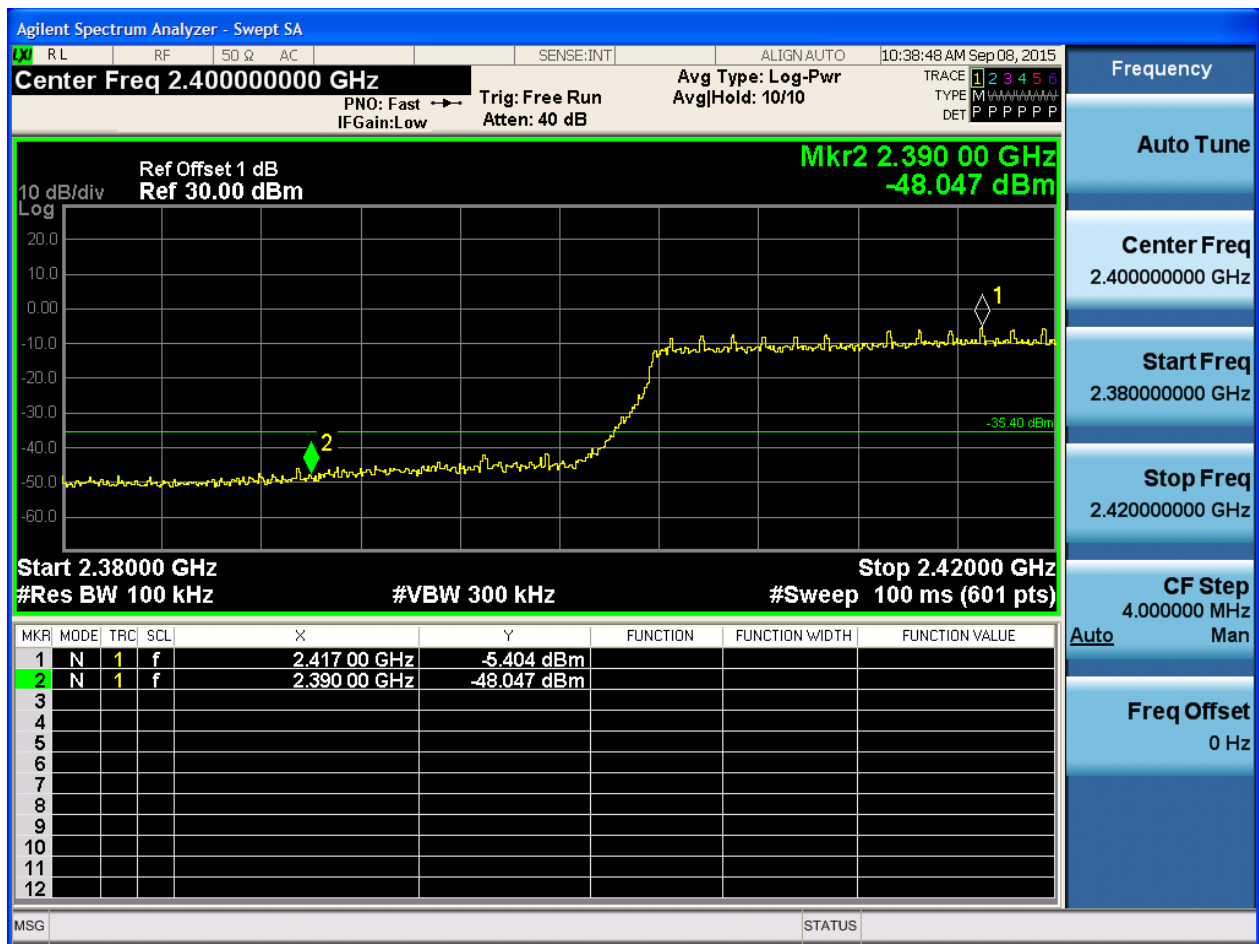


2.22 11N40m_L@Ant 2



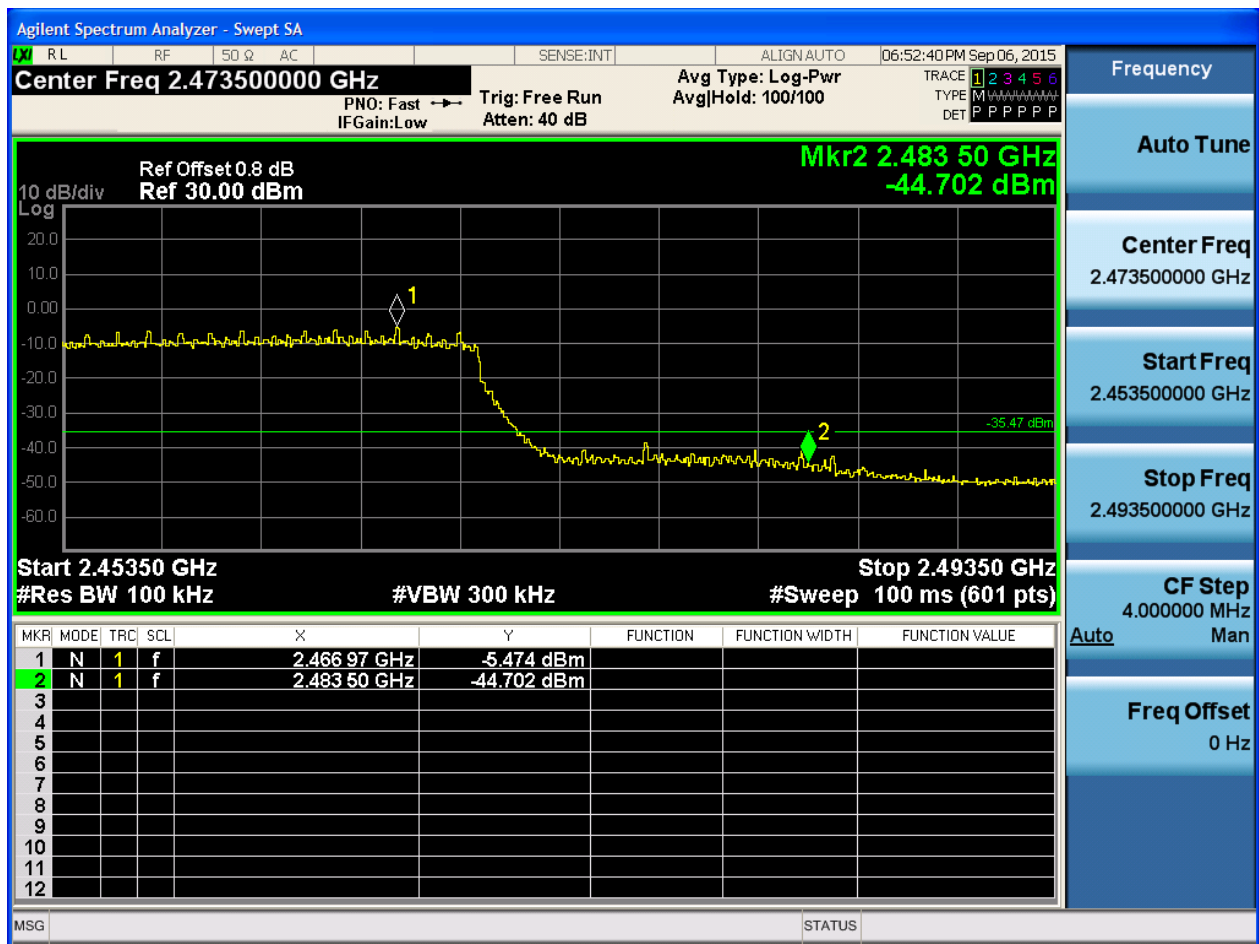


2.21 11N40m_L@Ant 1



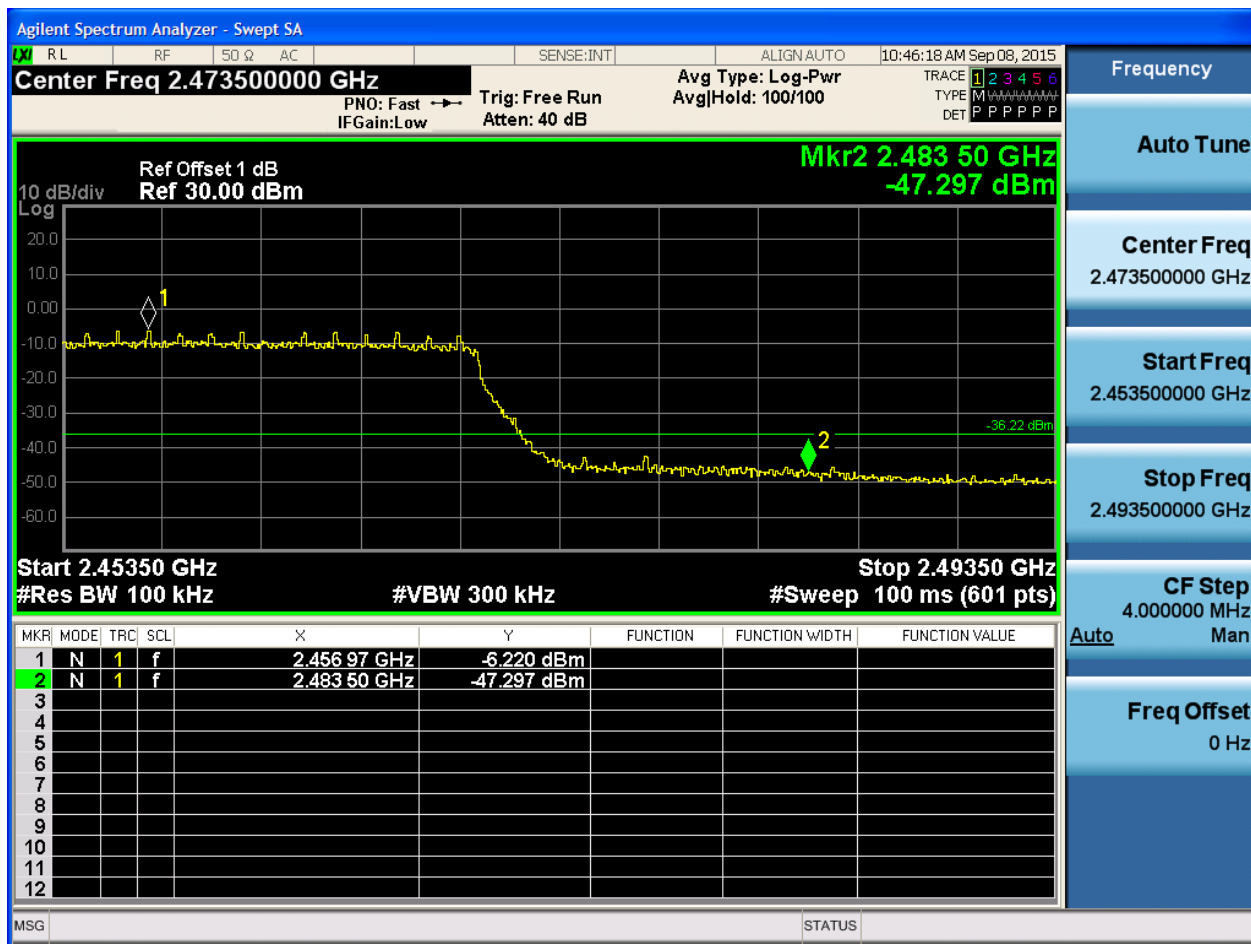


2.24 11N40m_H@Ant 2



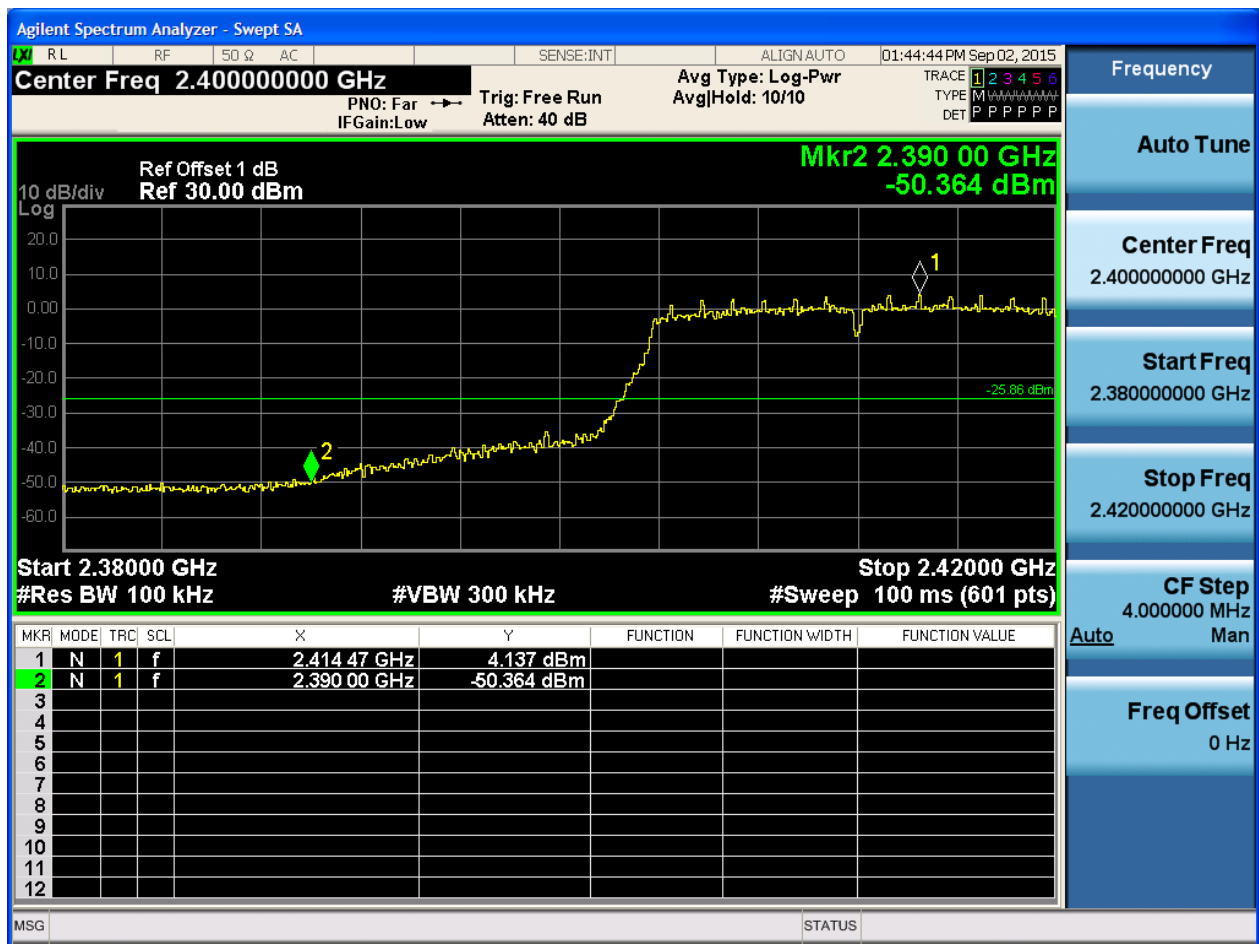


2.23 11N40m_H@Ant 1



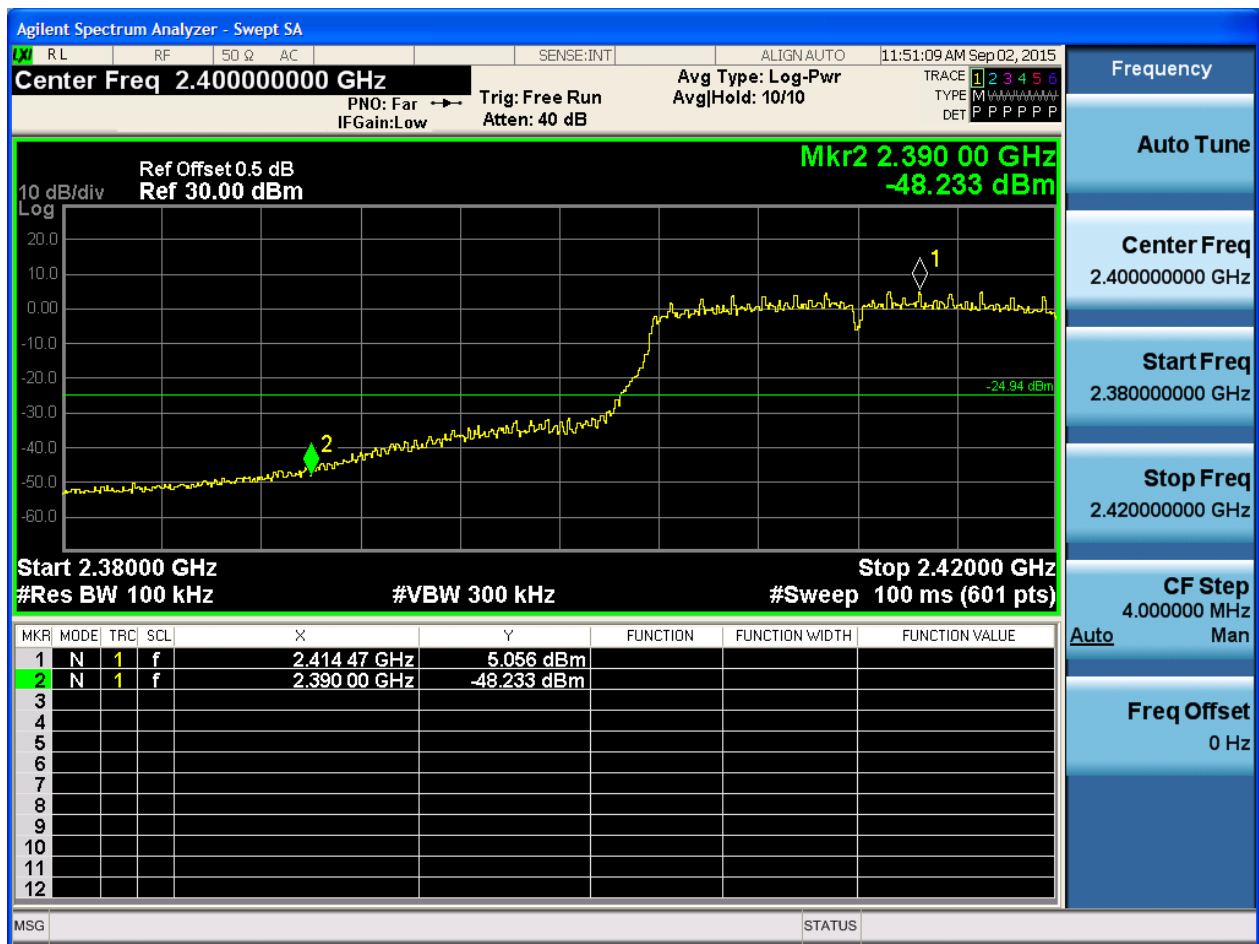


2.24 11G CDD_L@Ant 1





2.25 11G CDD_L@Ant 2



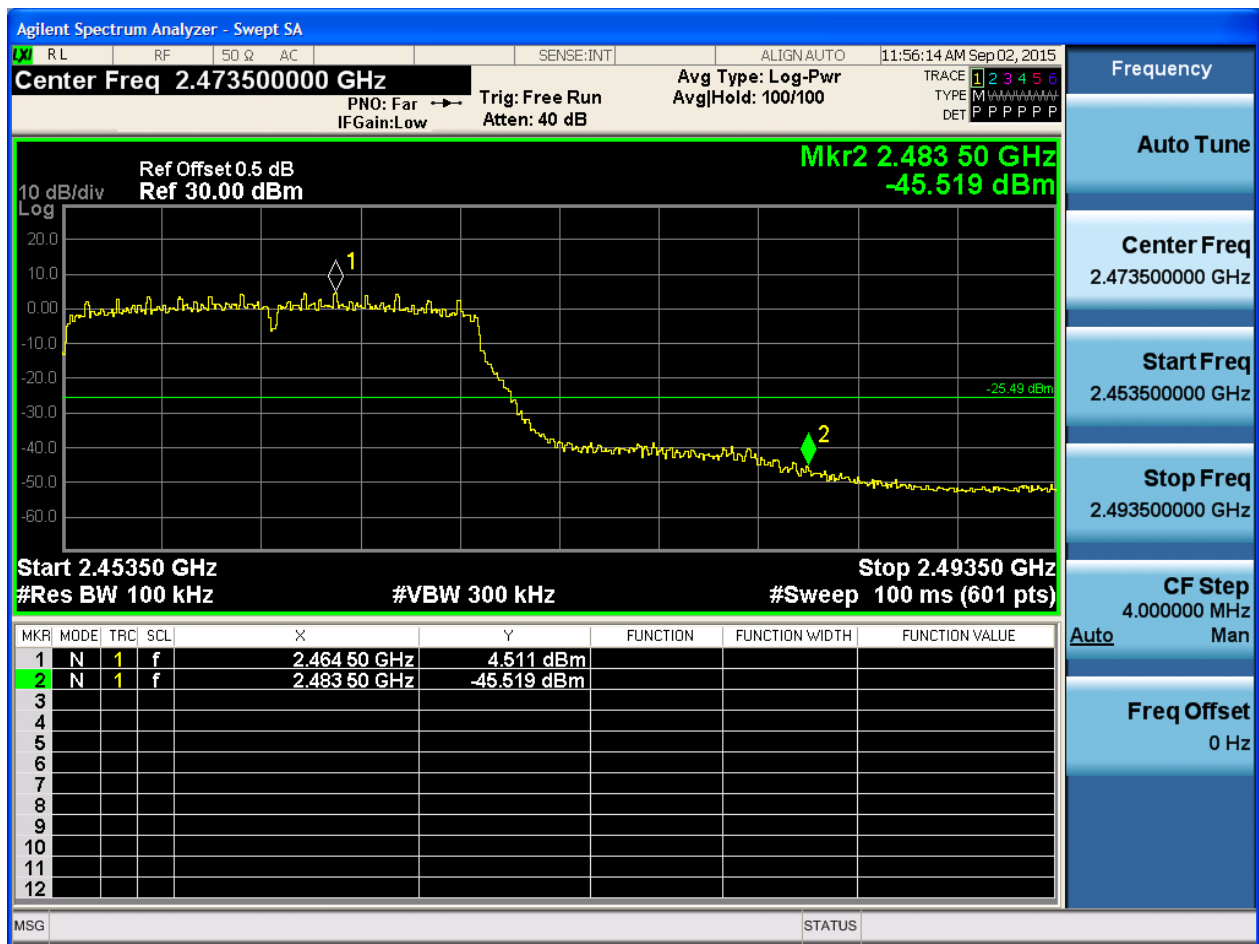


2.26 11G CDD_H@Ant 1





2.2 7 11G CDD_H@Ant 2



Appendix G: 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.

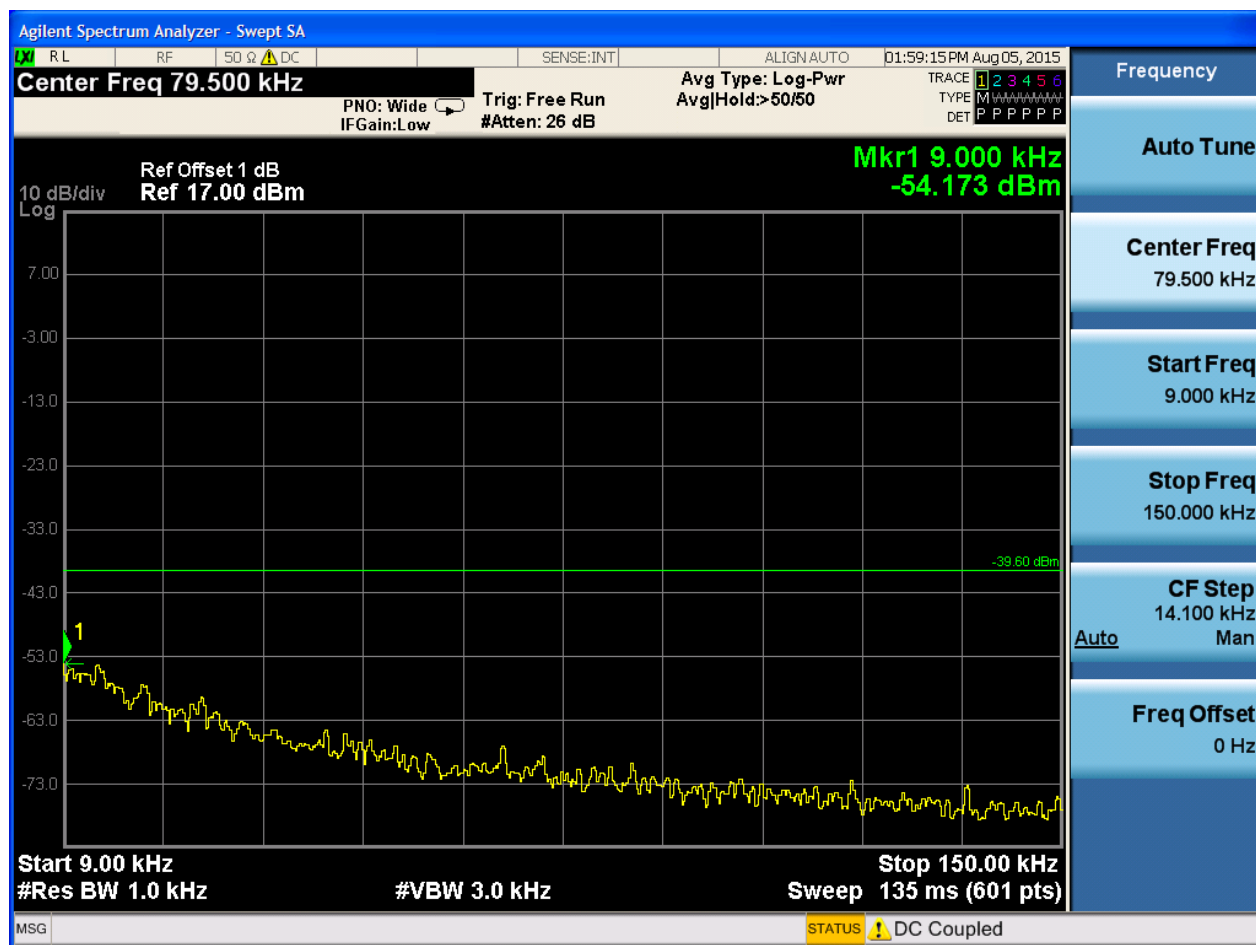
In the result table, the "< Limit" denotes that "The Puw [dBm] is less than Pref[dBm]-30[dBm], see test plots for detailed".

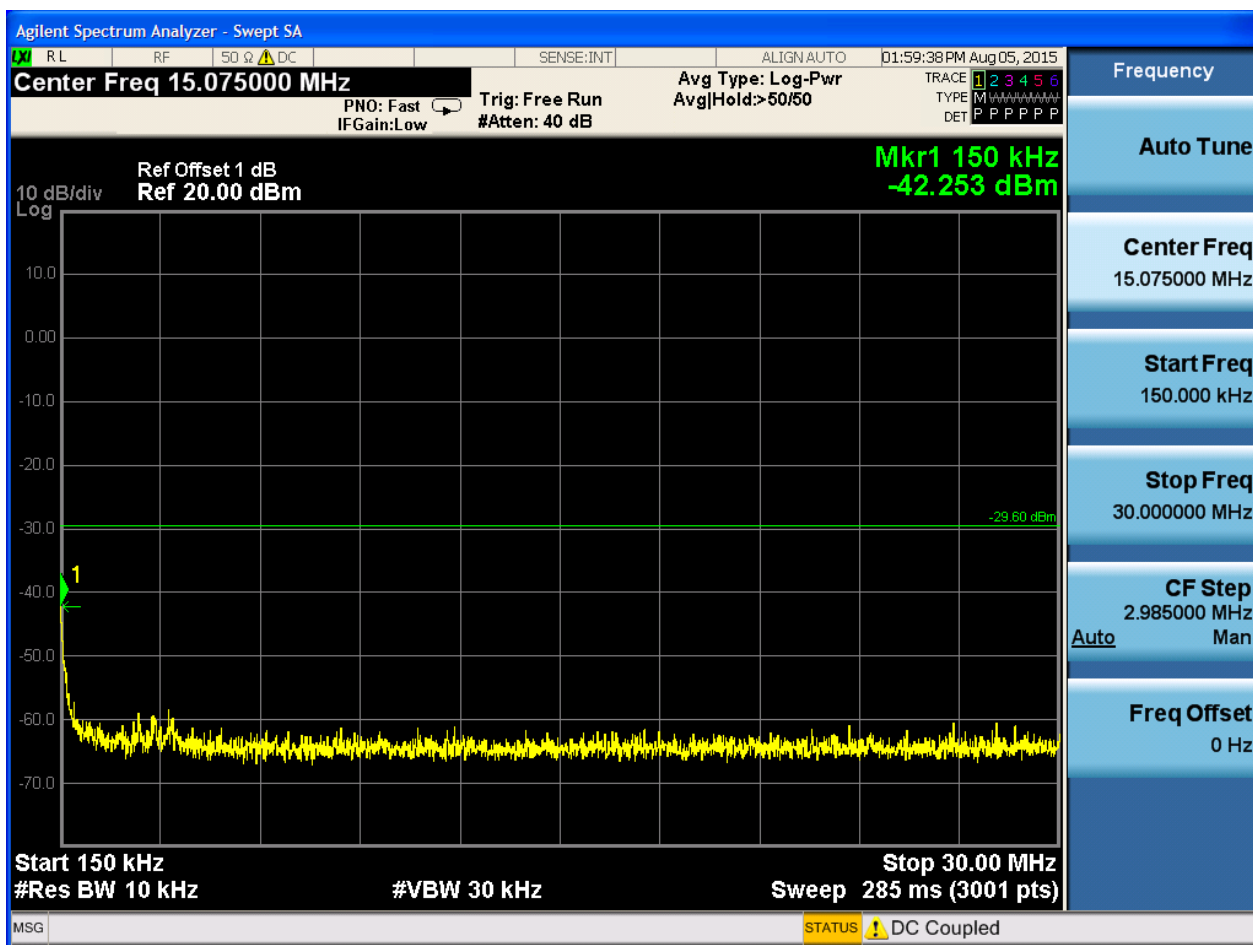
Part I - Test Results

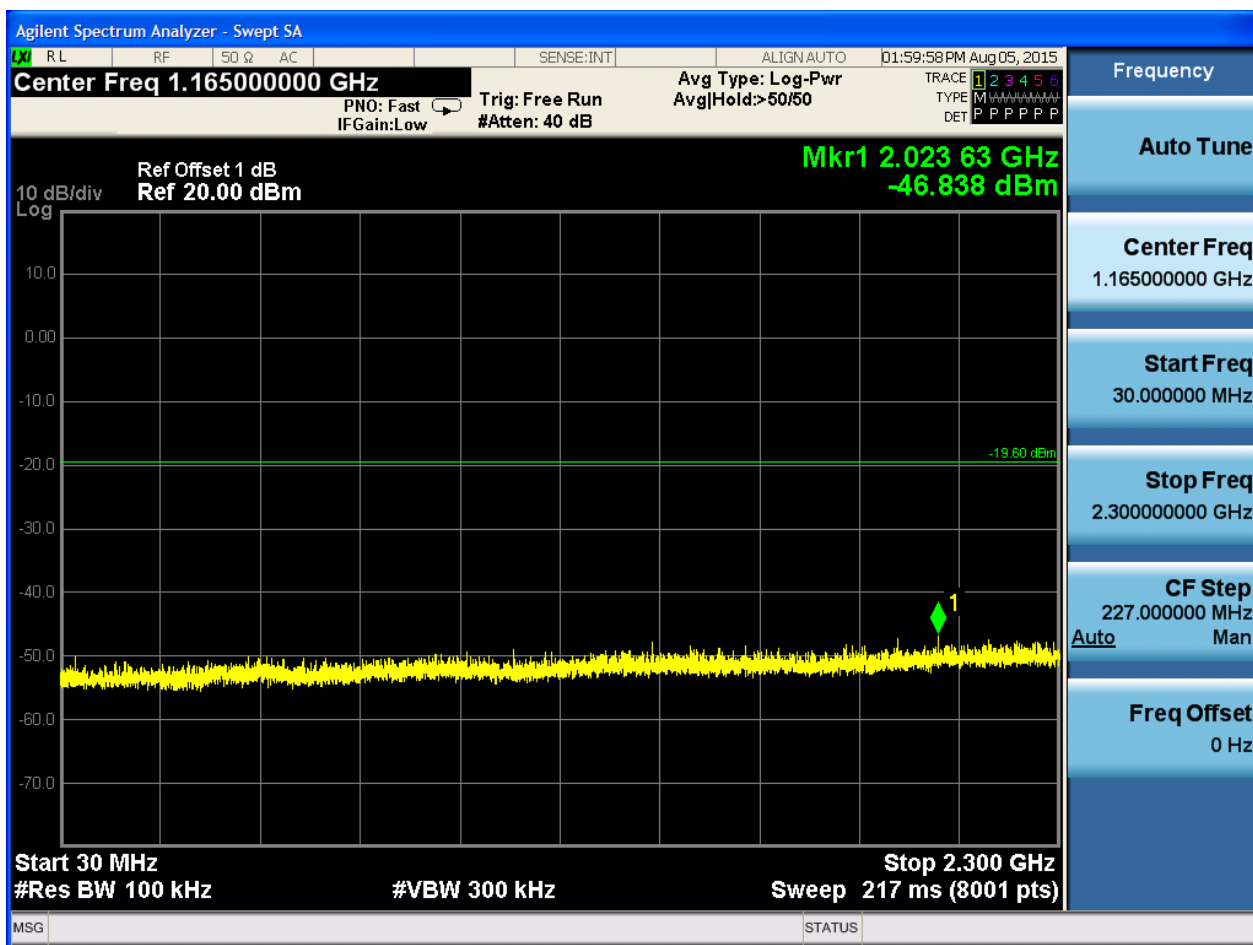
Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11B	L	2412	Ant 1	10.40	<limit	pass
11B	L	2412	Ant 2	11.04	<limit	pass
11B	M	2437	Ant 1	11.13	<limit	pass
11B	M	2437	Ant 2	10.72	<limit	pass
11B	H	2462	Ant 1	10.63	<limit	pass
11B	H	2462	Ant 2	10.60	<limit	pass
11G	L	2412	Ant 1	5.44	<limit	pass
11G	L	2412	Ant 2	6.57	<limit	pass
11G	M	2437	Ant 1	7.93	<limit	pass
11G	M	2437	Ant 2	7.96	<limit	pass
11G	H	2462	Ant 1	5.77	<limit	pass
11G	H	2462	Ant 2	6.37	<limit	pass
11N20	L	2412	Ant 1	5.58	<limit	pass
11N20	L	2412	Ant 2	6.55	<limit	pass
11N20	M	2437	Ant 1	7.10	<limit	pass
11N20	M	2437	Ant 2	7.53	<limit	pass
11N20	H	2462	Ant 1	5.86	<limit	pass

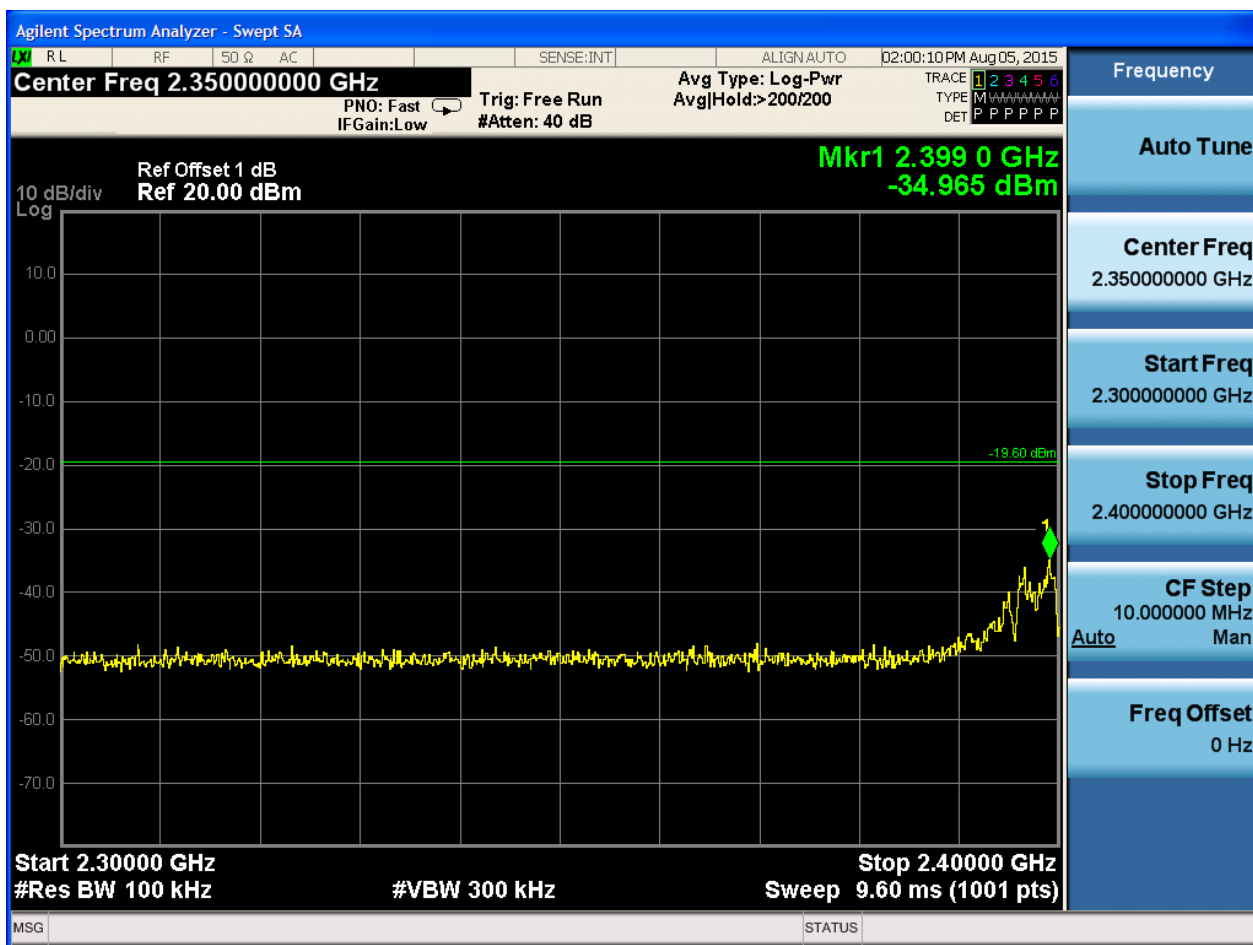
Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	H	2462	Ant 2	6.27	<limit	pass
11N20m	L	2412	Ant 2	6.26	<limit	pass
11N20m	L	2412	Ant 1	5.50	<limit	pass
11N20m	M	2437	Ant 2	6.17	<limit	pass
11N20m	M	2437	Ant 1	5.74	<limit	pass
11N20m	H	2462	Ant 2	5.66	<limit	pass
11N20m	H	2462	Ant 1	5.64	<limit	pass
11N40	L	2422	Ant 1	-4.14	<limit	pass
11N40	L	2422	Ant 2	-3.95	<limit	pass
11N40	M	2437	Ant 1	1.68	<limit	pass
11N40	M	2437	Ant 2	2.30	<limit	pass
11N40	H	2452	Ant 1	-4.11	<limit	pass
11N40	H	2452	Ant 2	-4.00	<limit	pass
11N40m	L	2422	Ant 2	-4.22	<limit	pass
11N40m	L	2422	Ant 1	-5.34	<limit	pass
11N40m	M	2437	Ant 2	2.31	<limit	pass
11N40m	M	2437	Ant 1	1.74	<limit	pass
11N40m	H	2452	Ant 2	-5.16	<limit	pass
11N40m	H	2452	Ant 1	-5.68	<limit	pass
11G CDD	L	2412	Ant 1	4.51	<limit	pass
11G CDD	L	2412	Ant 2	5.48	<limit	pass
11G CDD	M	2437	Ant 1	7.85	<limit	pass
11G CDD	M	2437	Ant 2	7.66	<limit	pass
11G CDD	H	2462	Ant 1	4.63	<limit	pass
11G CDD	H	2462	Ant 2	5.02	<limit	pass

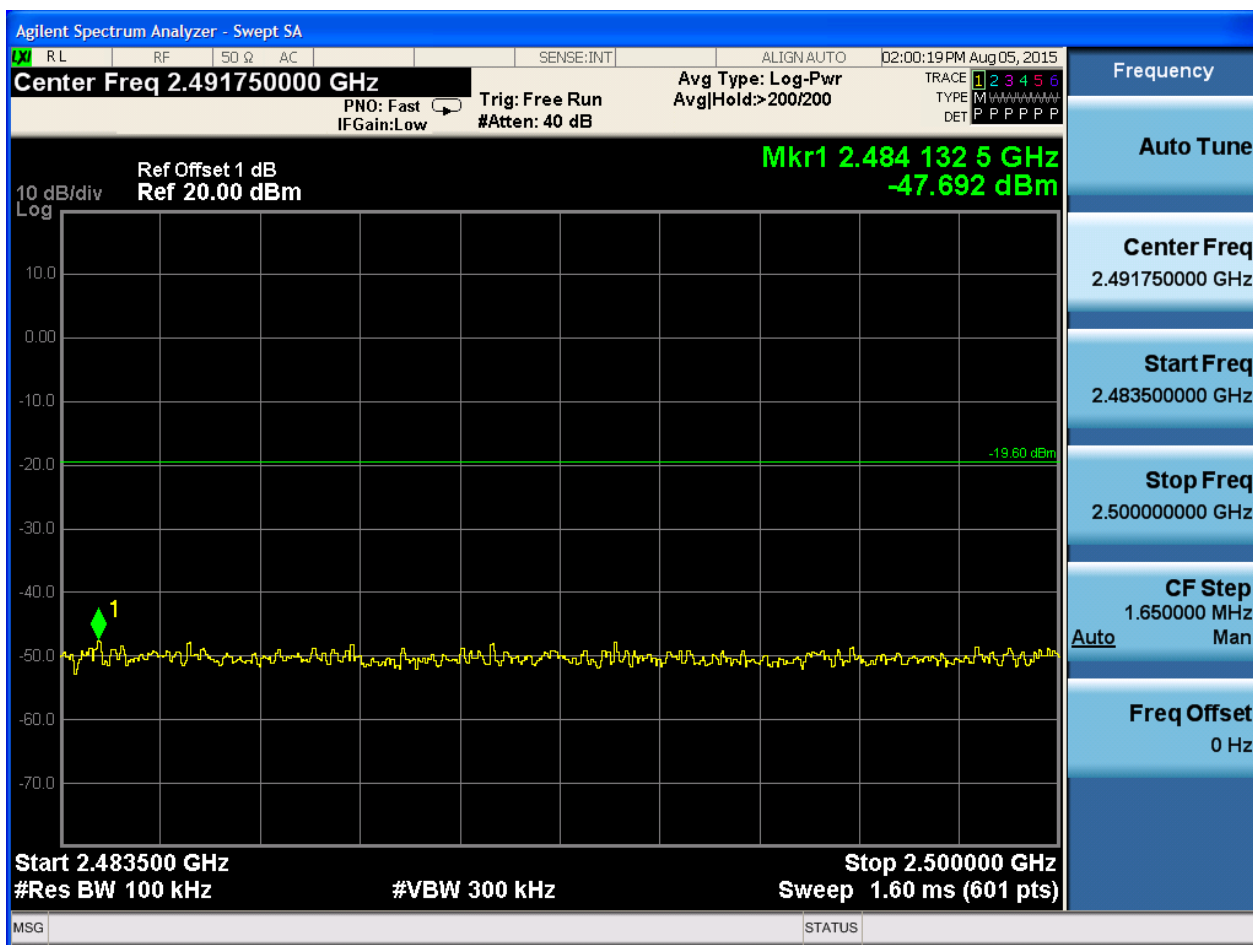


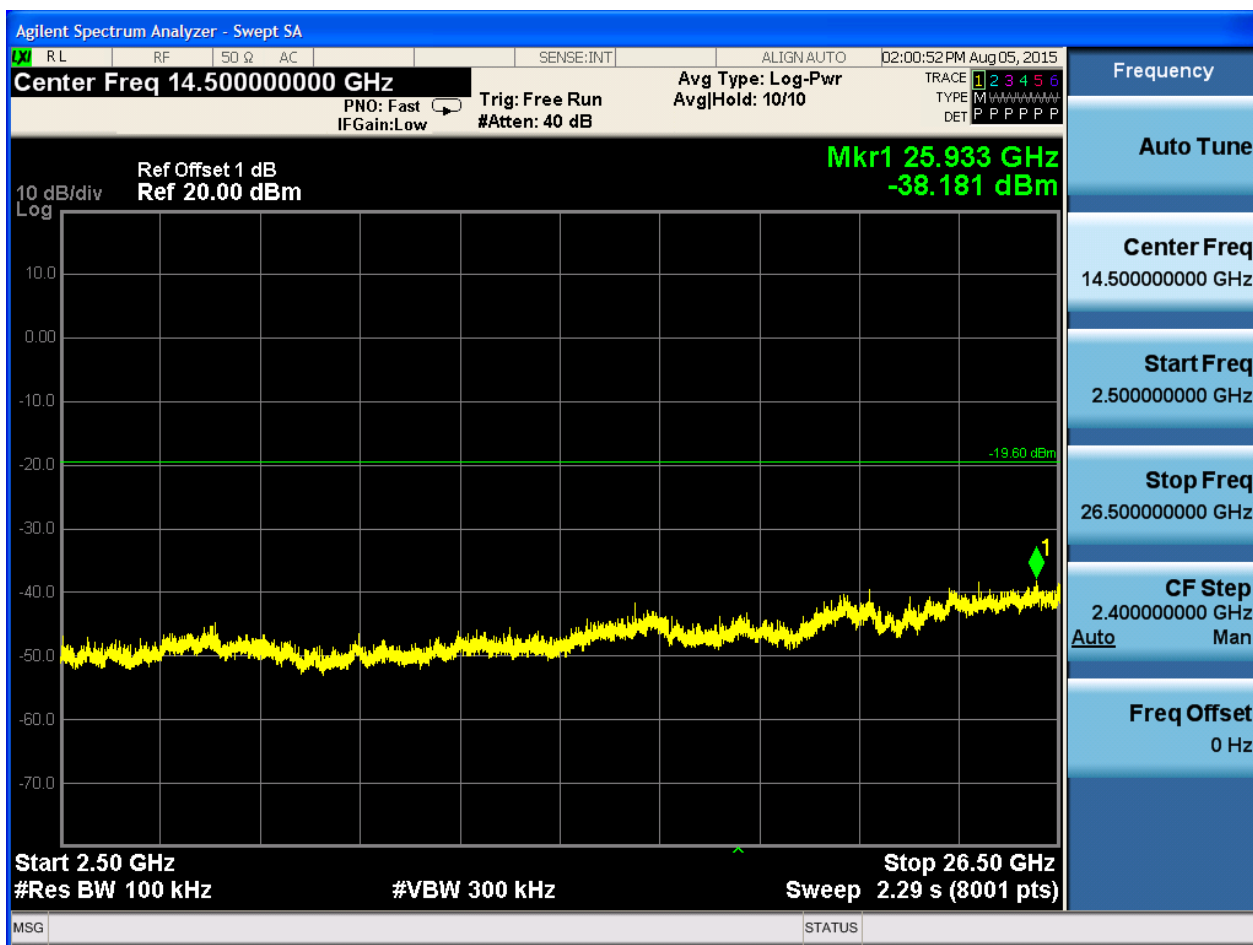
P_uw:







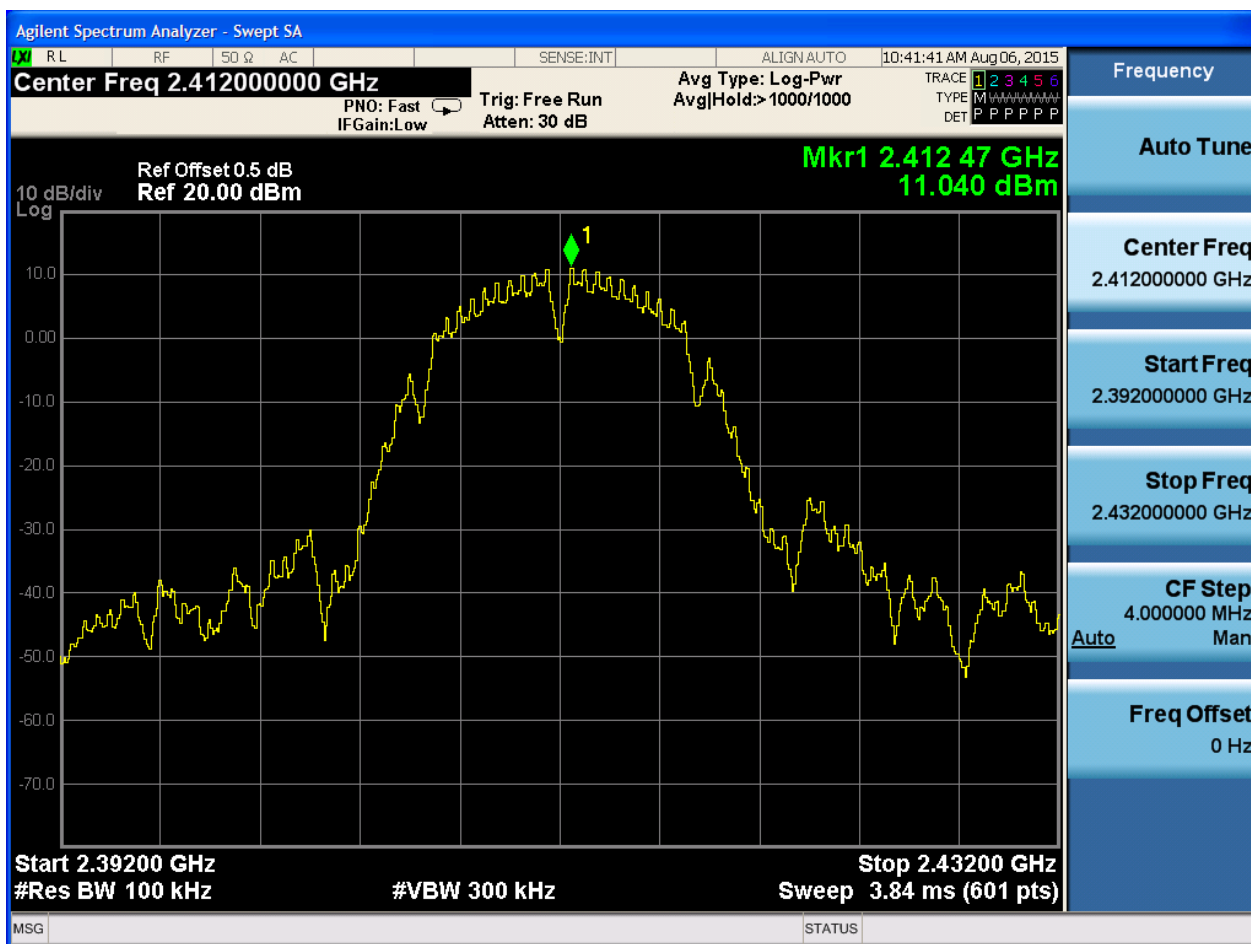






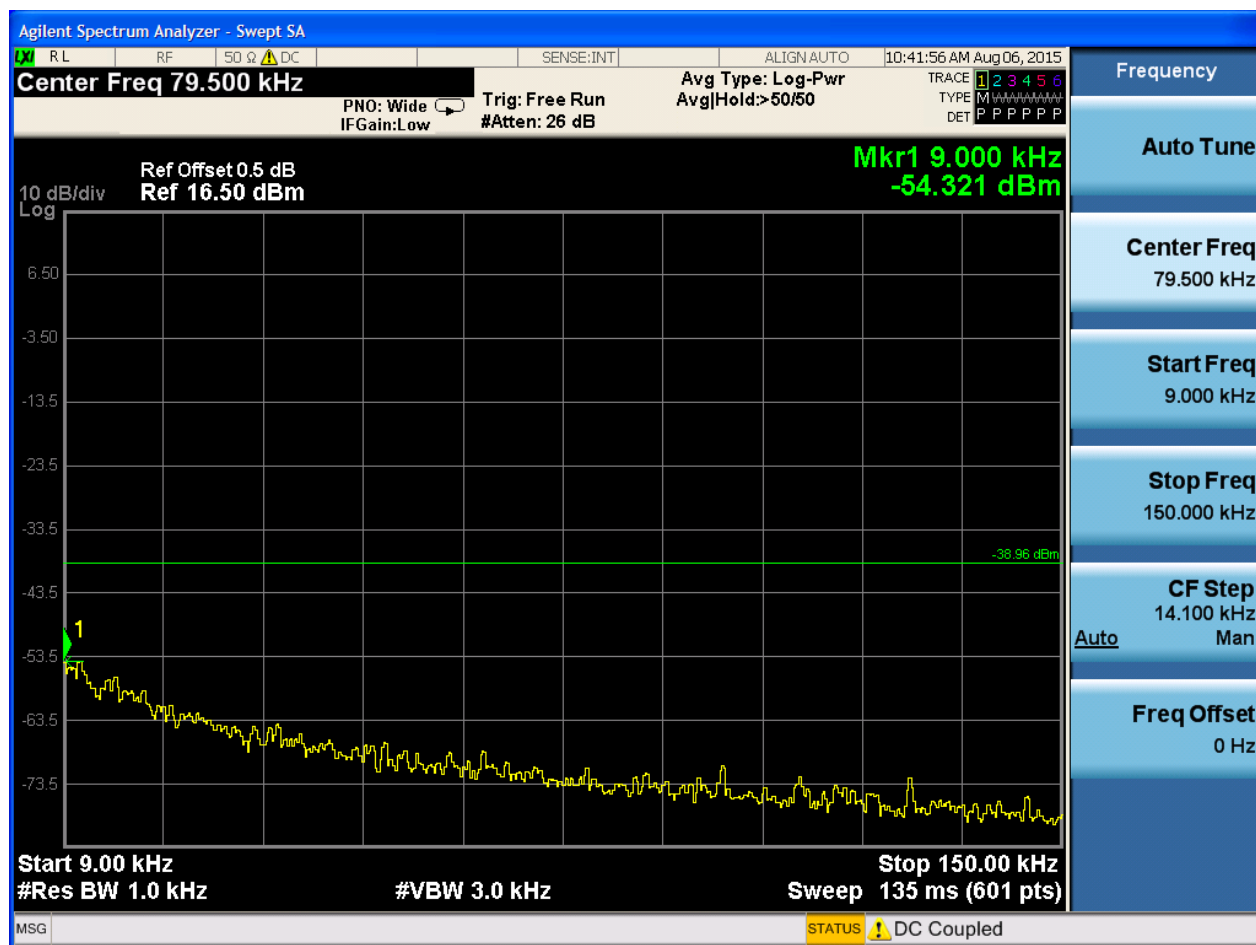
2.2 11B_L@Ant 2

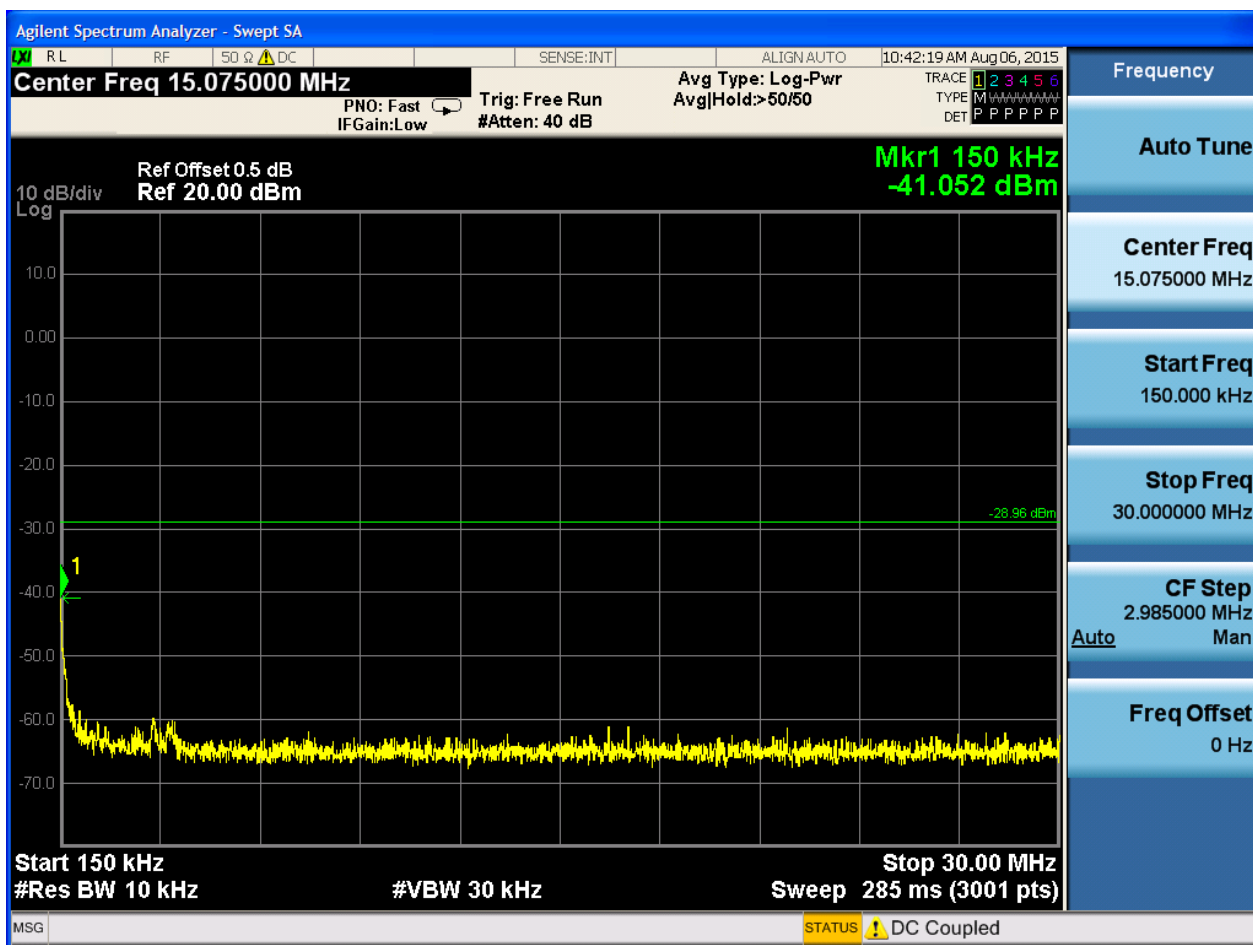
Pref:

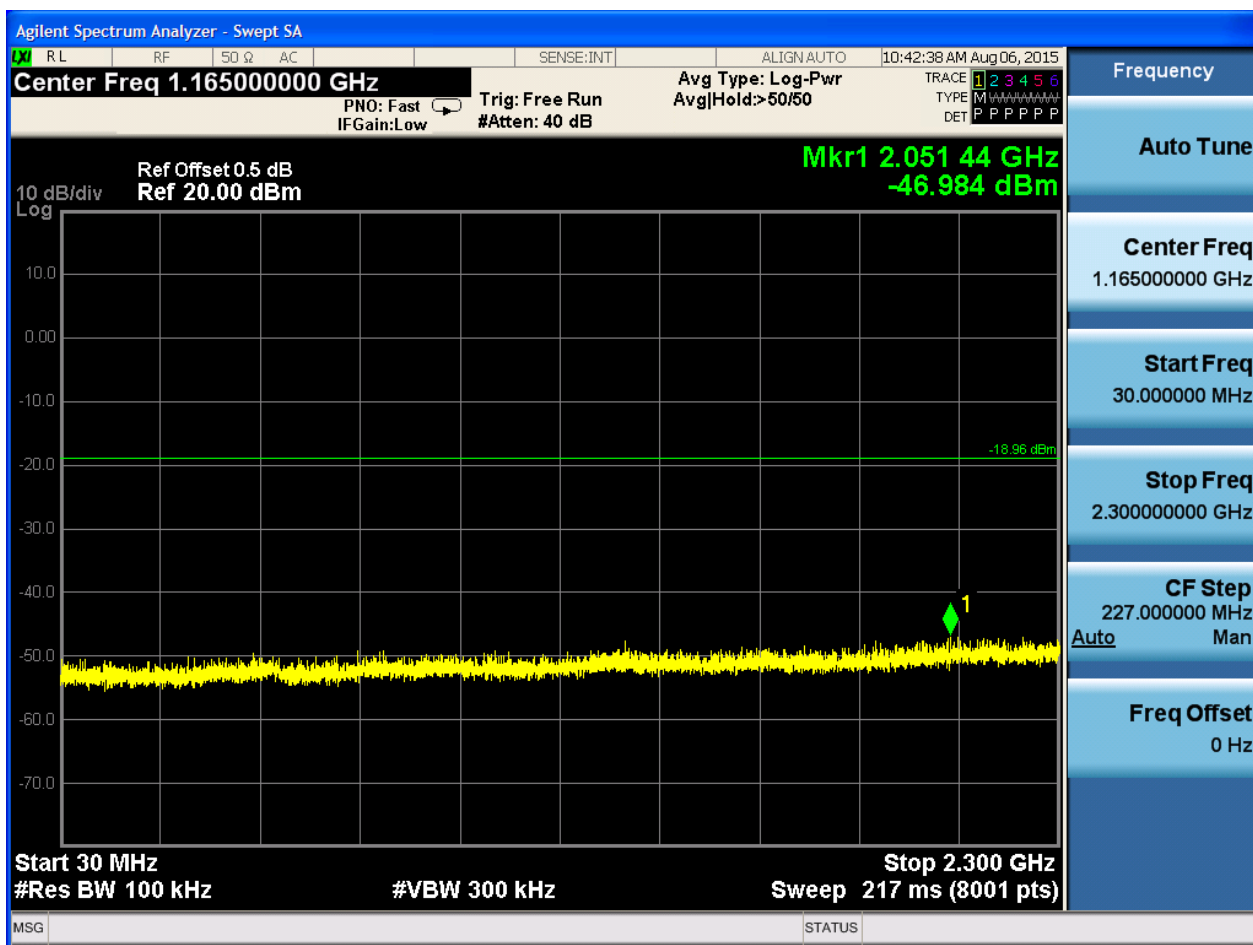


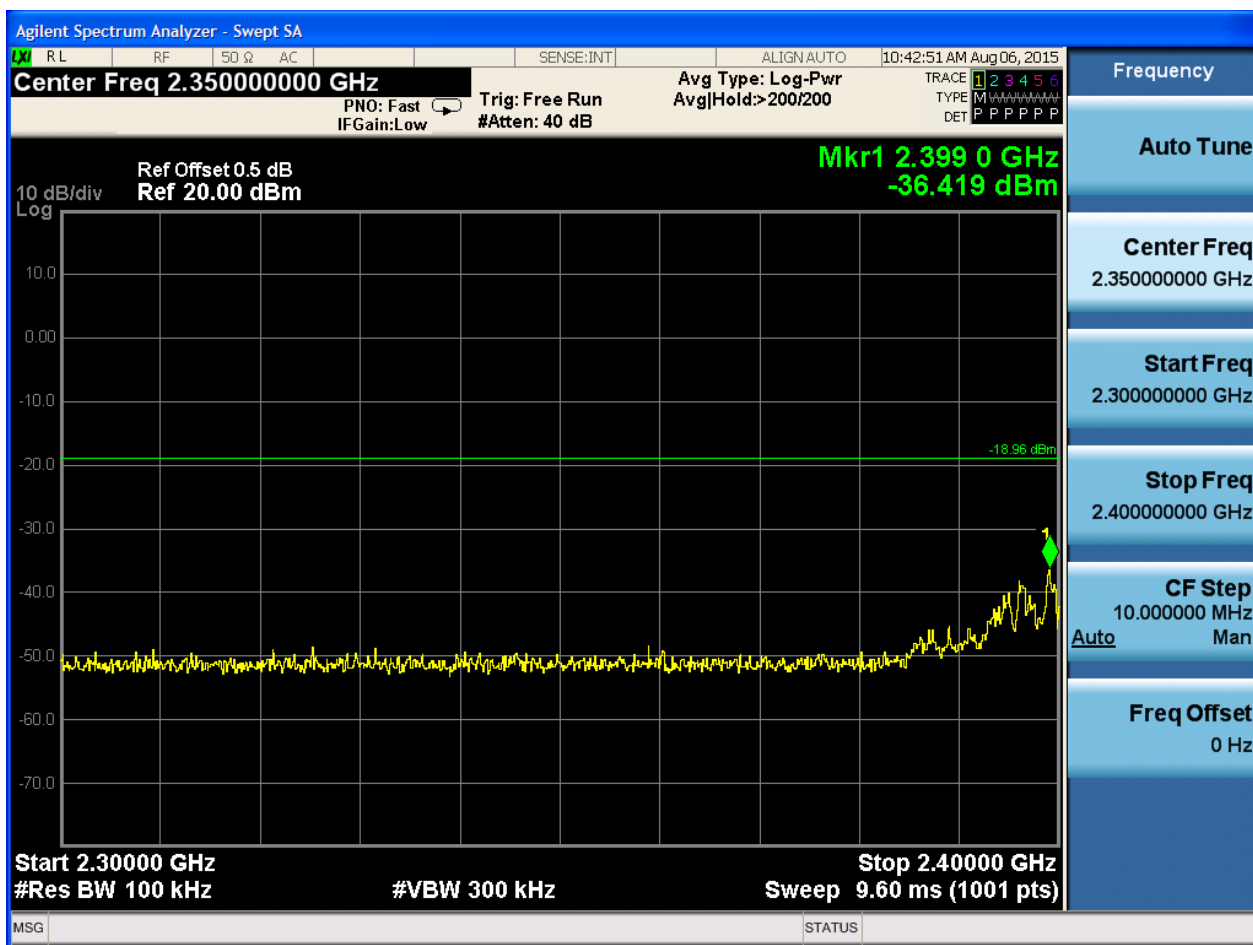


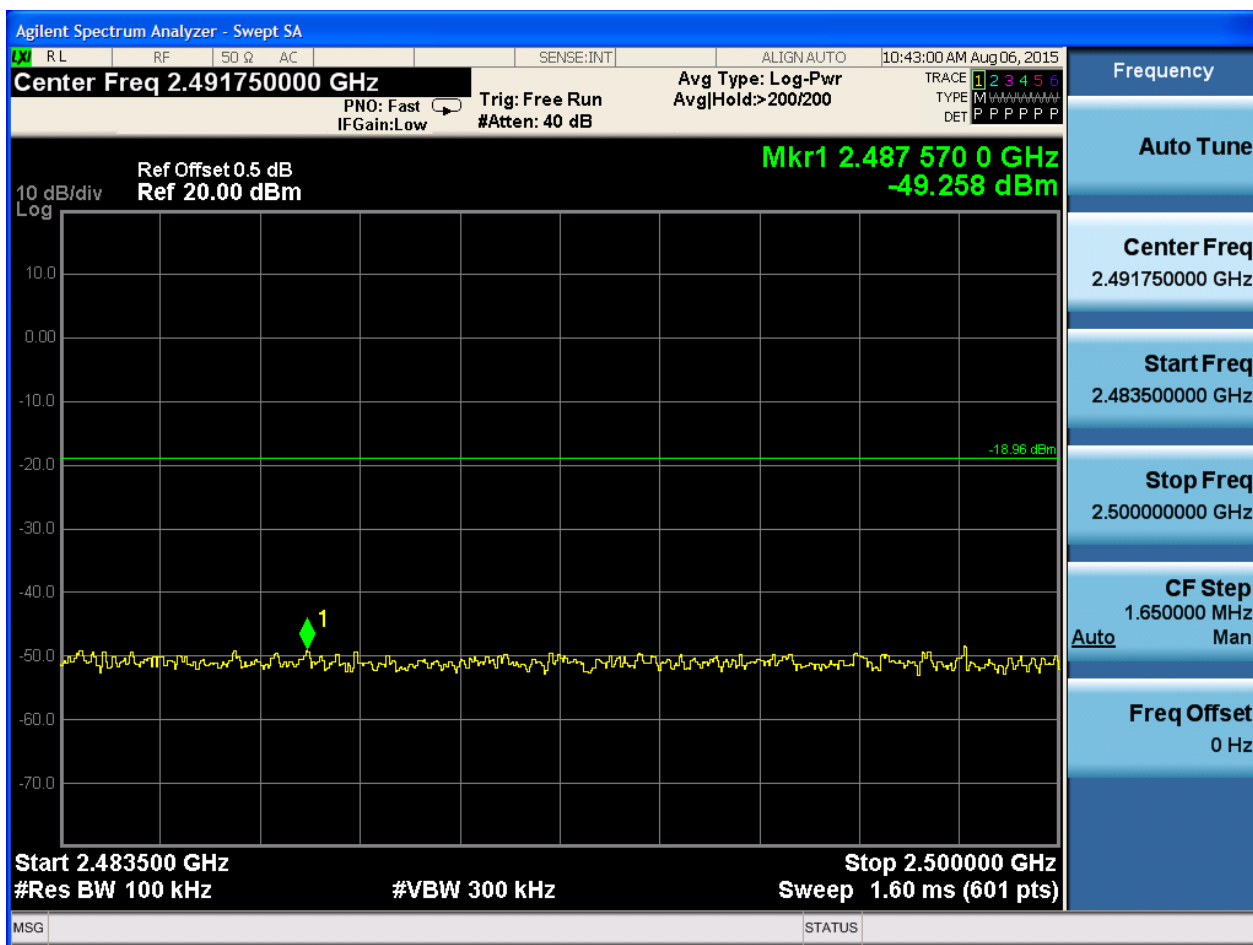
Puw:

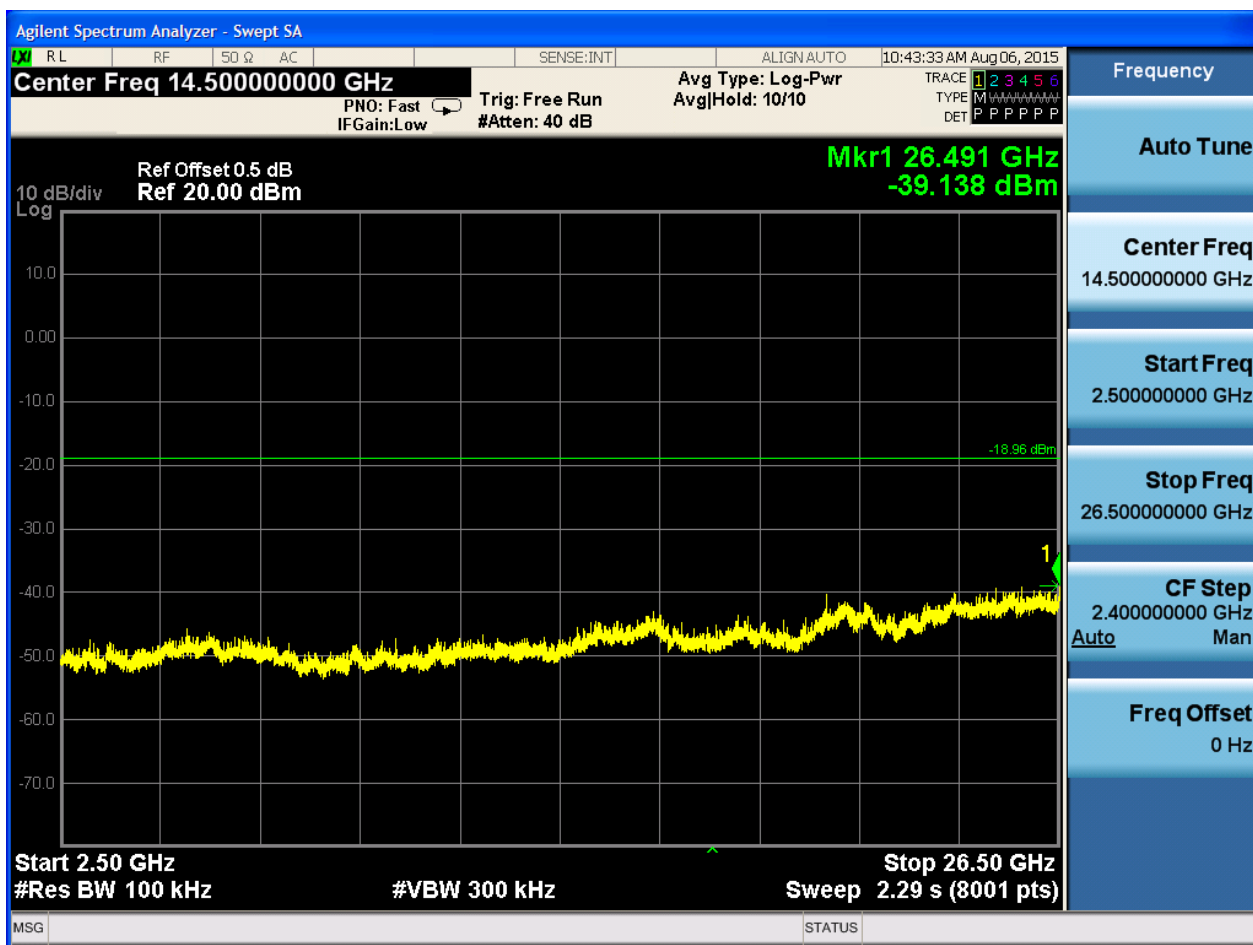








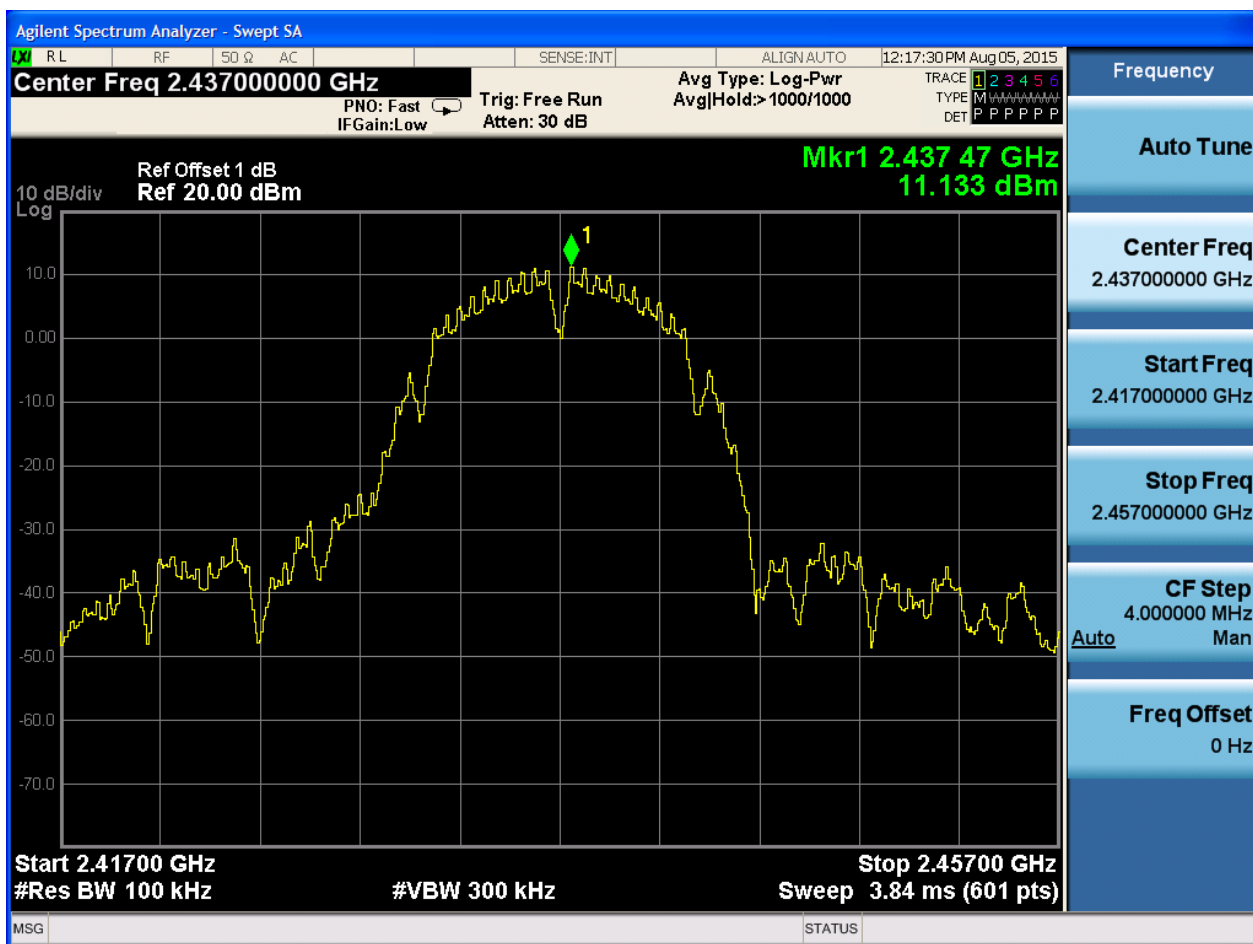






2.3 11B_M@Ant 1

Pref:





Puw:

