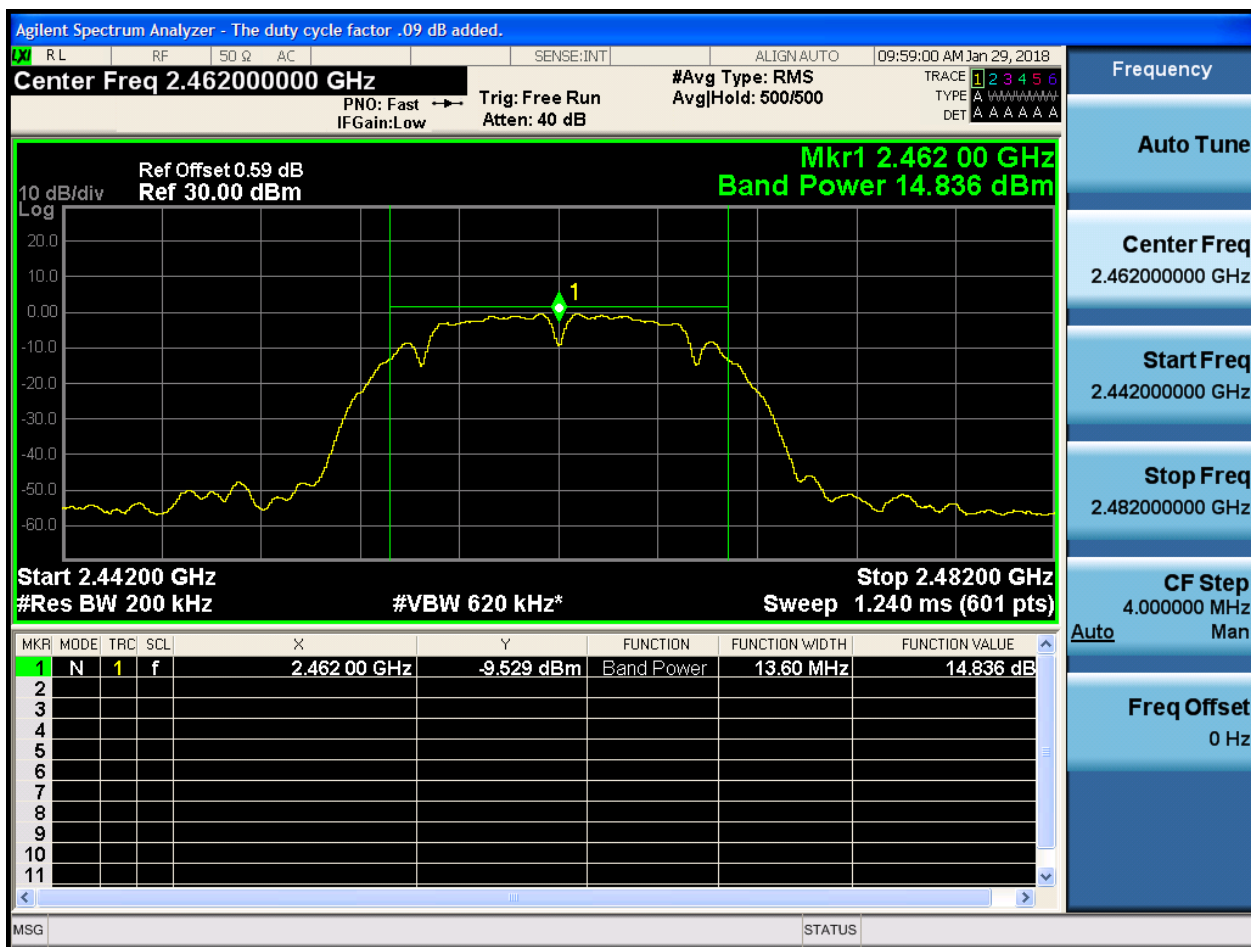


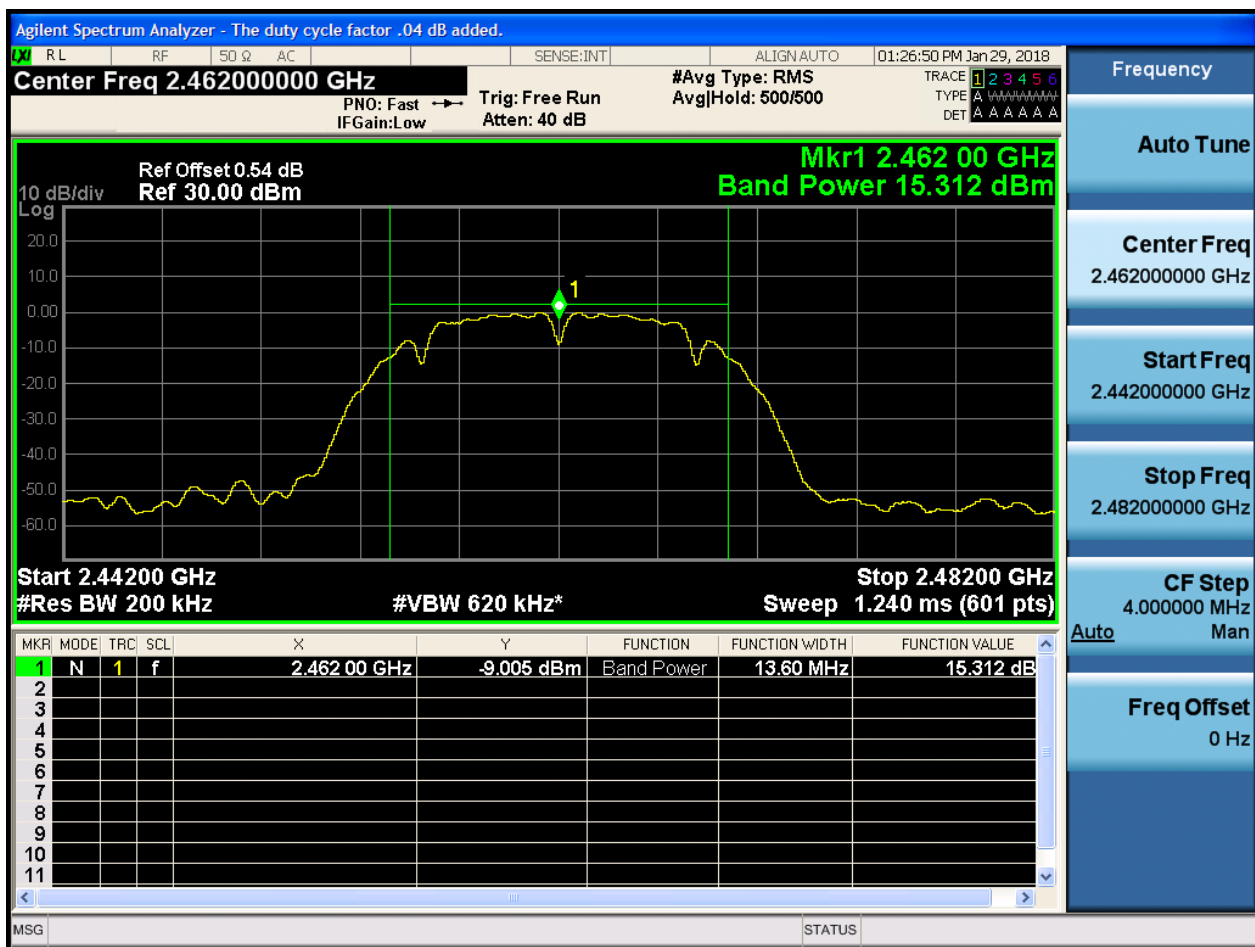


2.7 11B_H_2462@Ant 1



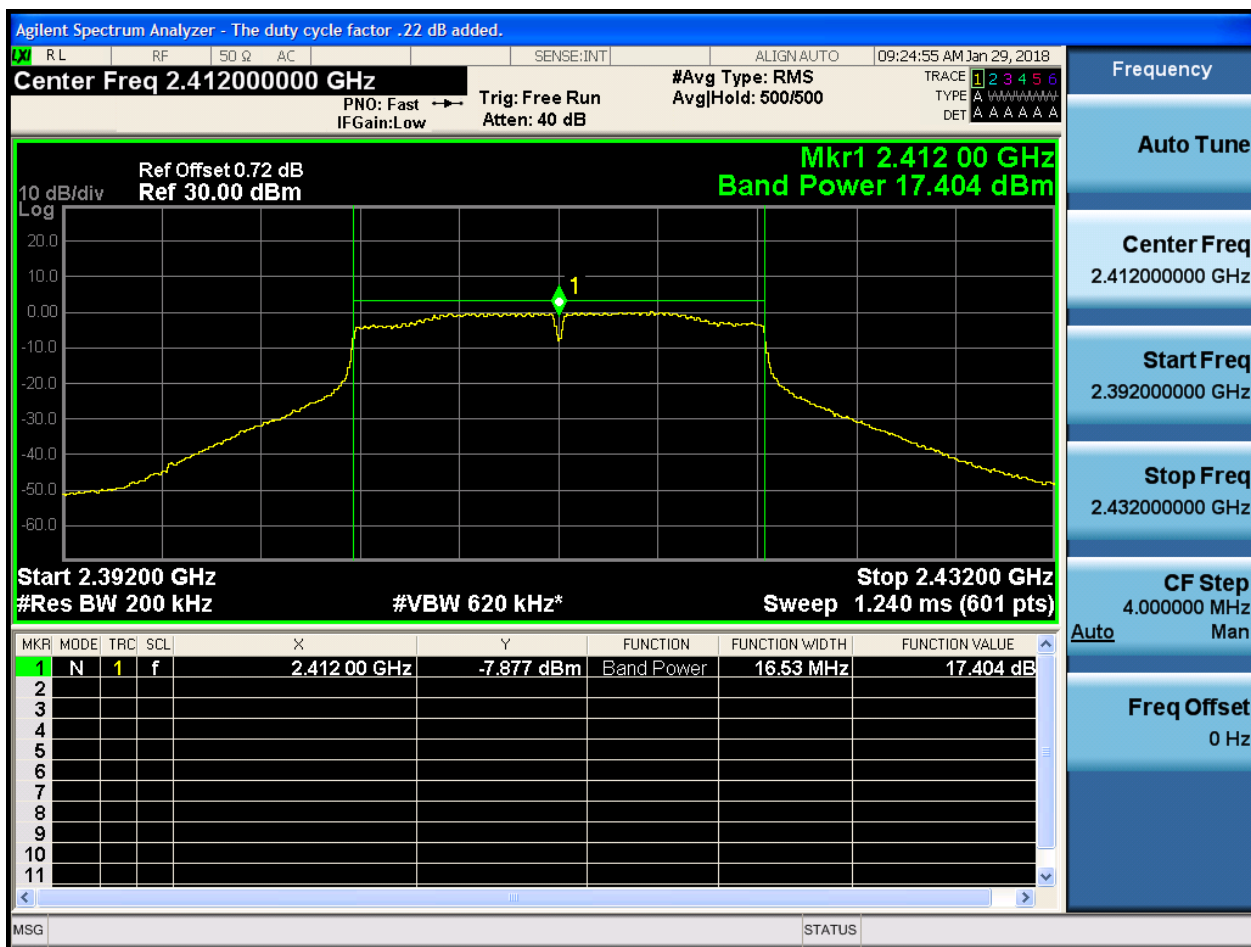


2.8 11B_H_2462@Ant 2



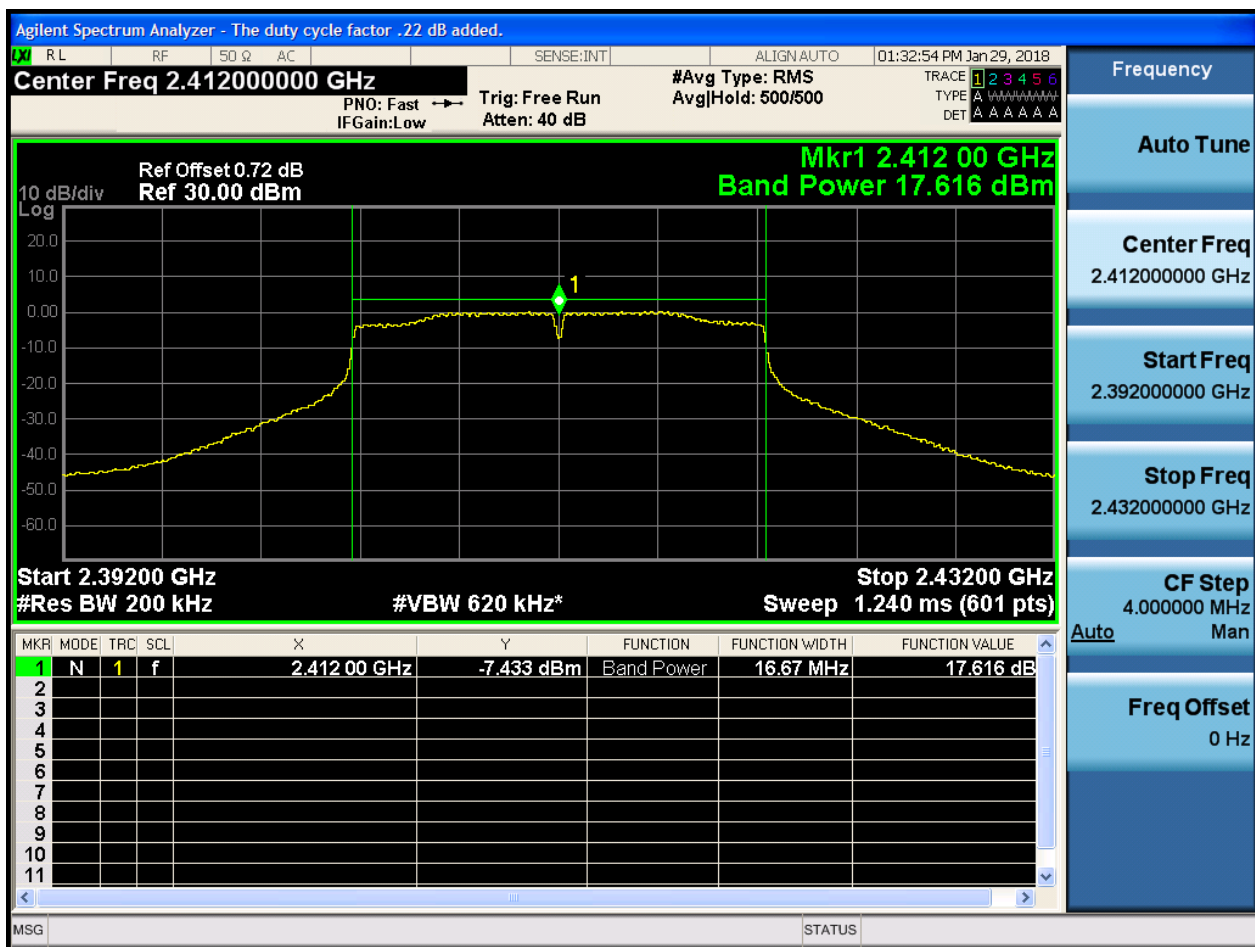


2.9 11G_L@Ant 1





2.10 11G_L@Ant 2





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

Center Freq 2.43700000 GHz

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

09:31:06 AM Jan 29, 2018

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

PNO: Fast → Trig: Free Run
IFGain: Low Atten: 40 dB

Ref Offset 0.72 dB
Ref 30.00 dBm

Mkr1 2.437 00 GHz
Band Power 17.733 dBm

Start 2.41700 GHz
#Res BW 200 kHz

Stop 2.45700 GHz
Sweep 1.240 ms (601 pts)

#VBW 620 kHz*

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.437 00 GHz	-7.693 dBm	Band Power	16.53 MHz	17.733 dB
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.43700000 GHz

Start Freq
2.41700000 GHz

Stop Freq
2.45700000 GHz

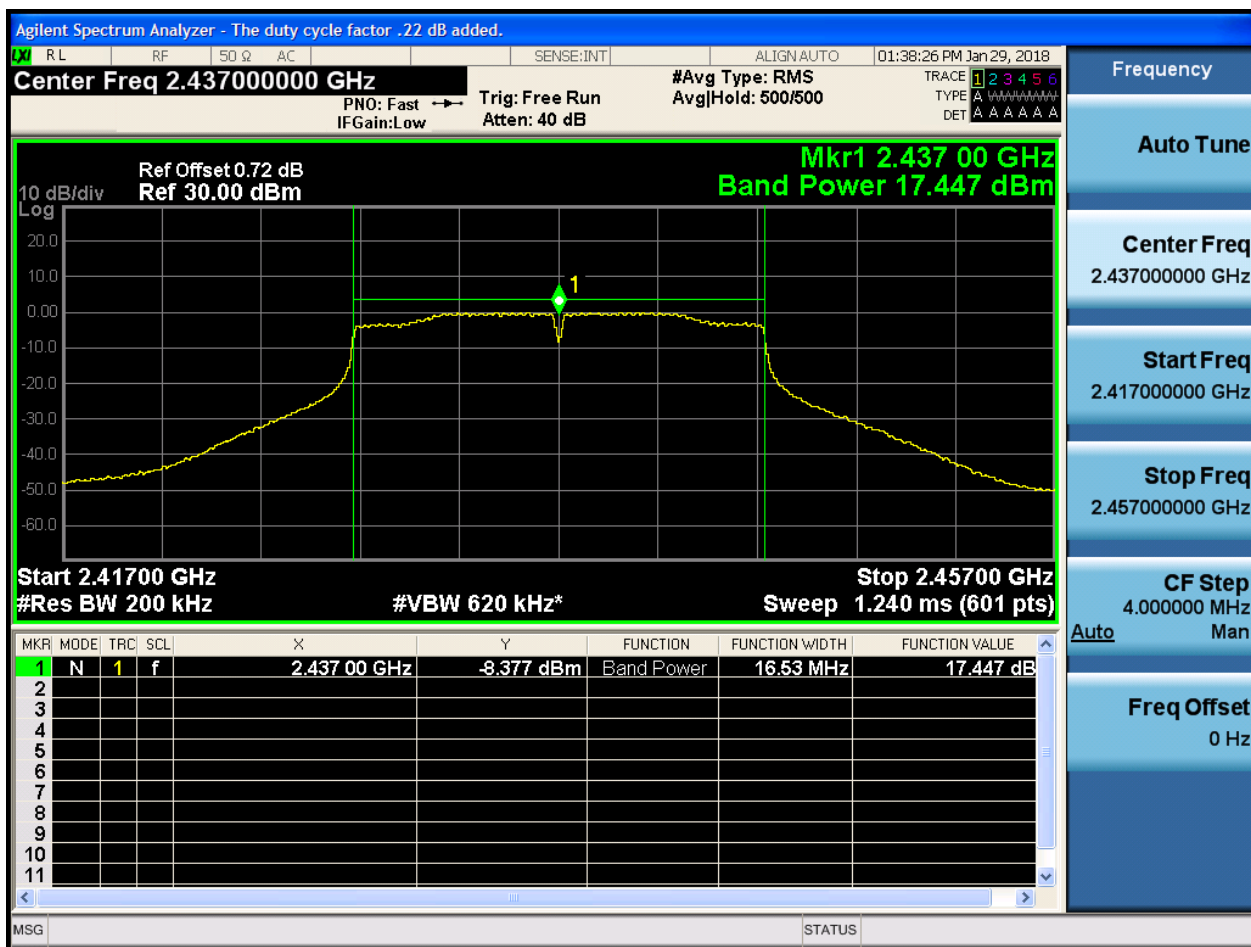
CF Step
4.000000 MHz
Man

Auto

Freq Offset
0 Hz

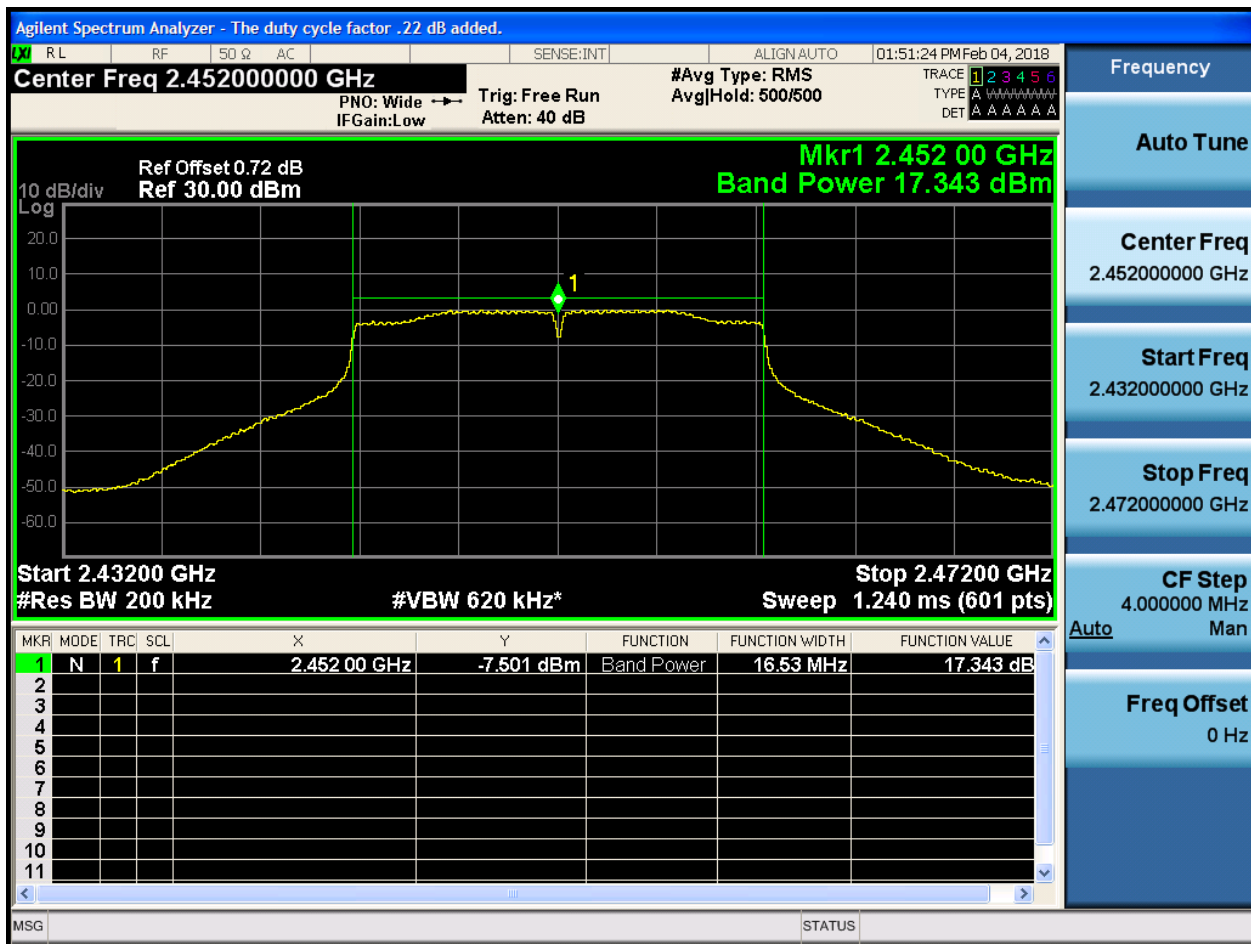


2.12 11G_M@Ant 2



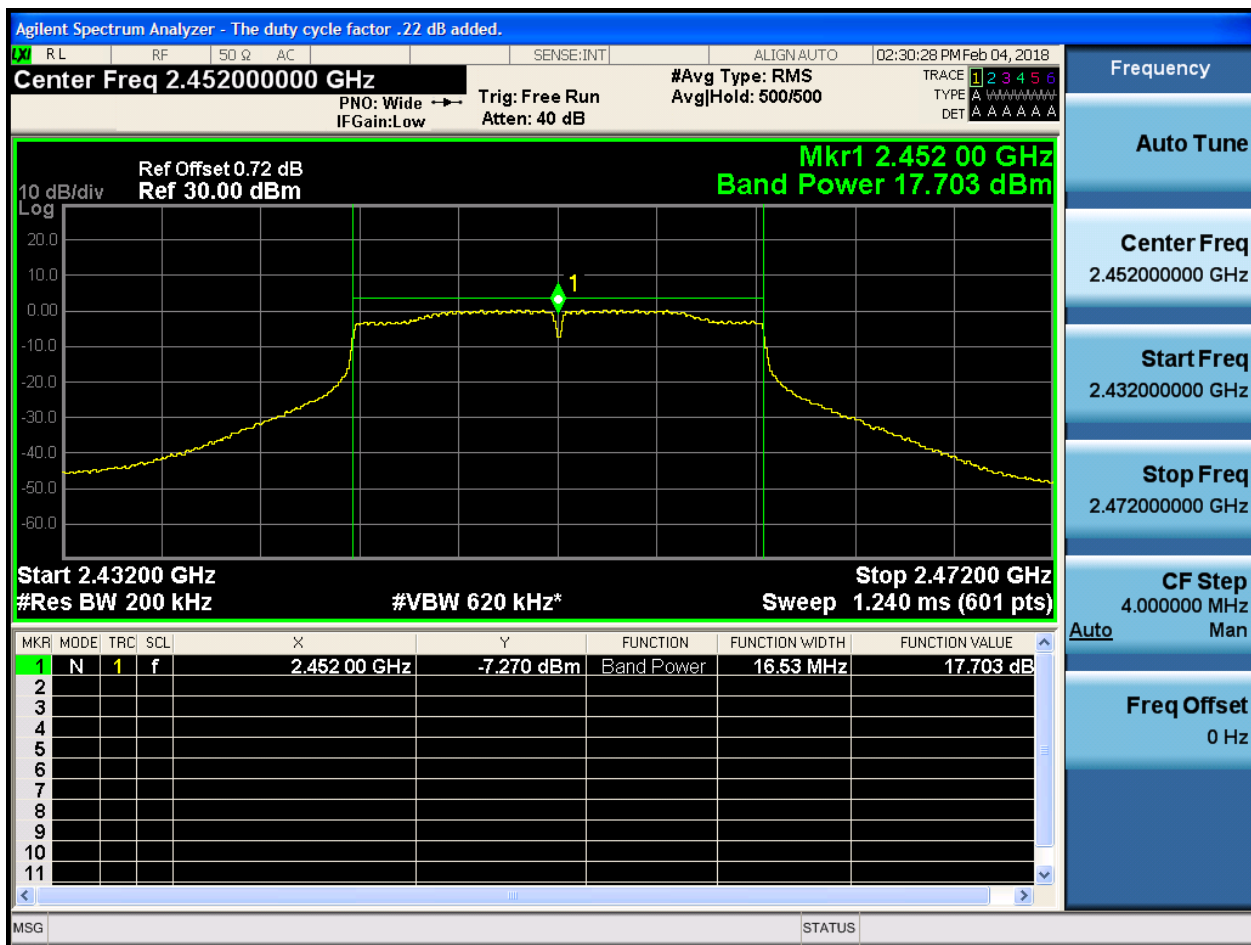


2.13 11G_H_2452@Ant 1



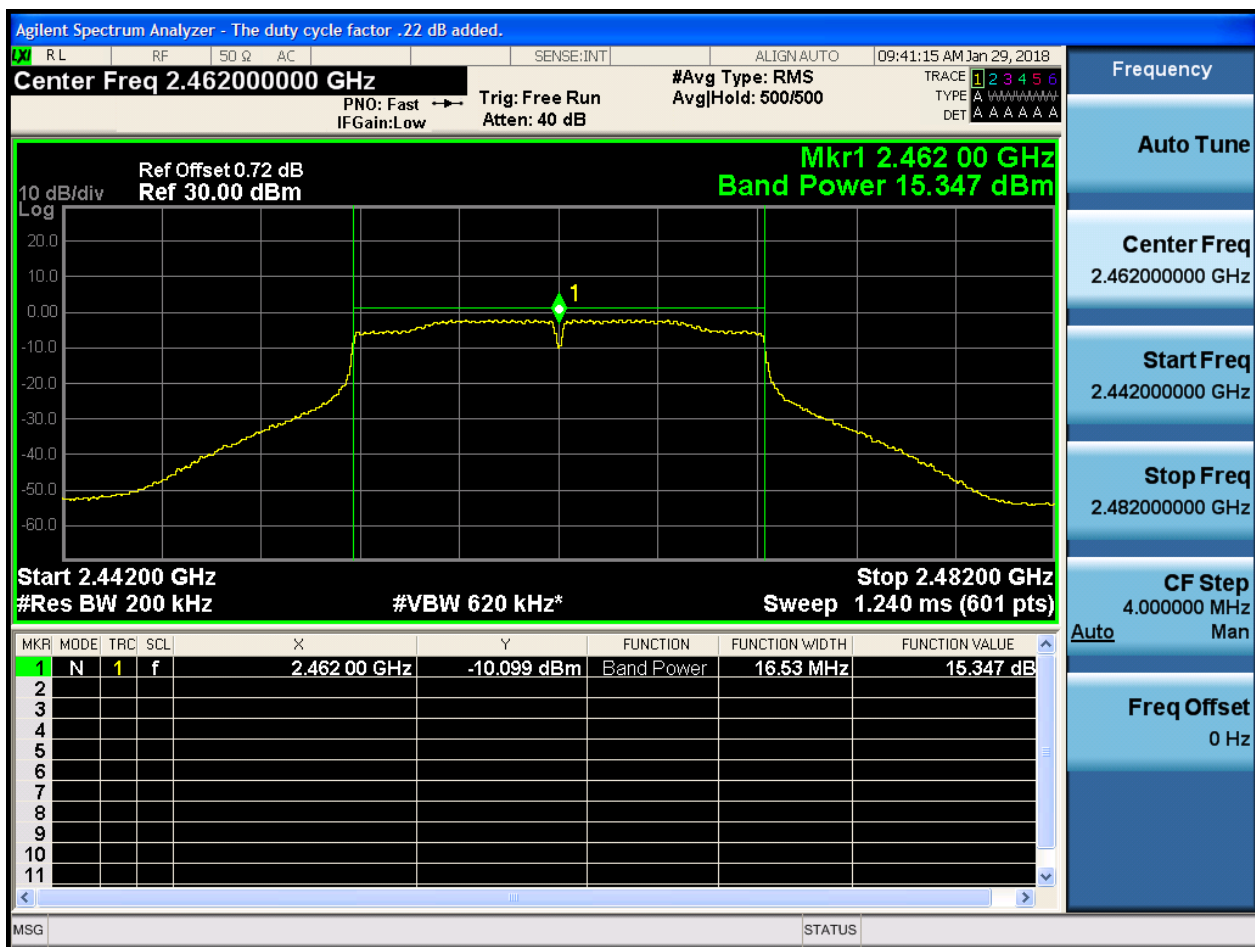


2.14 11G_H_2452@Ant 2



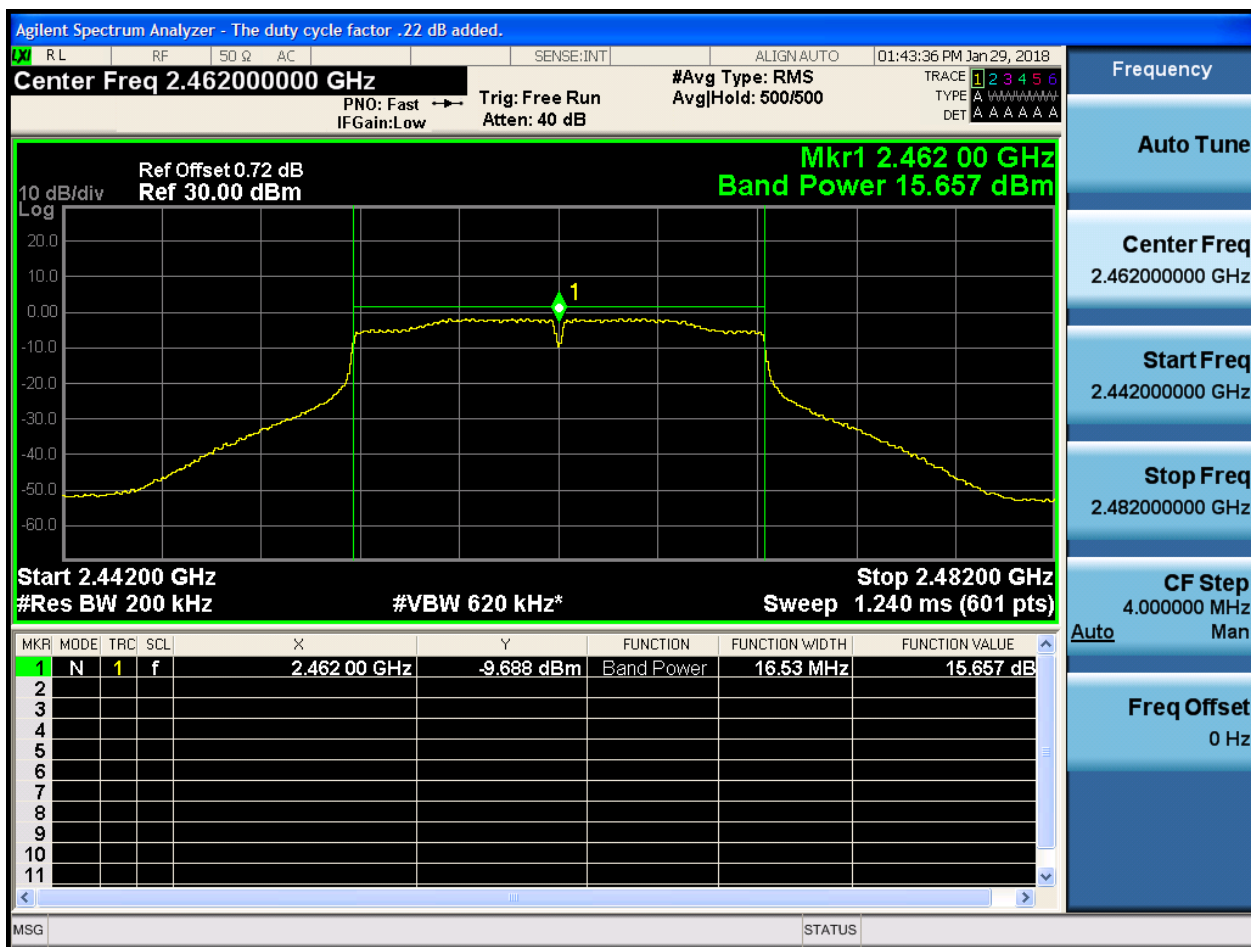


2.15 11G_H_2462@Ant 1



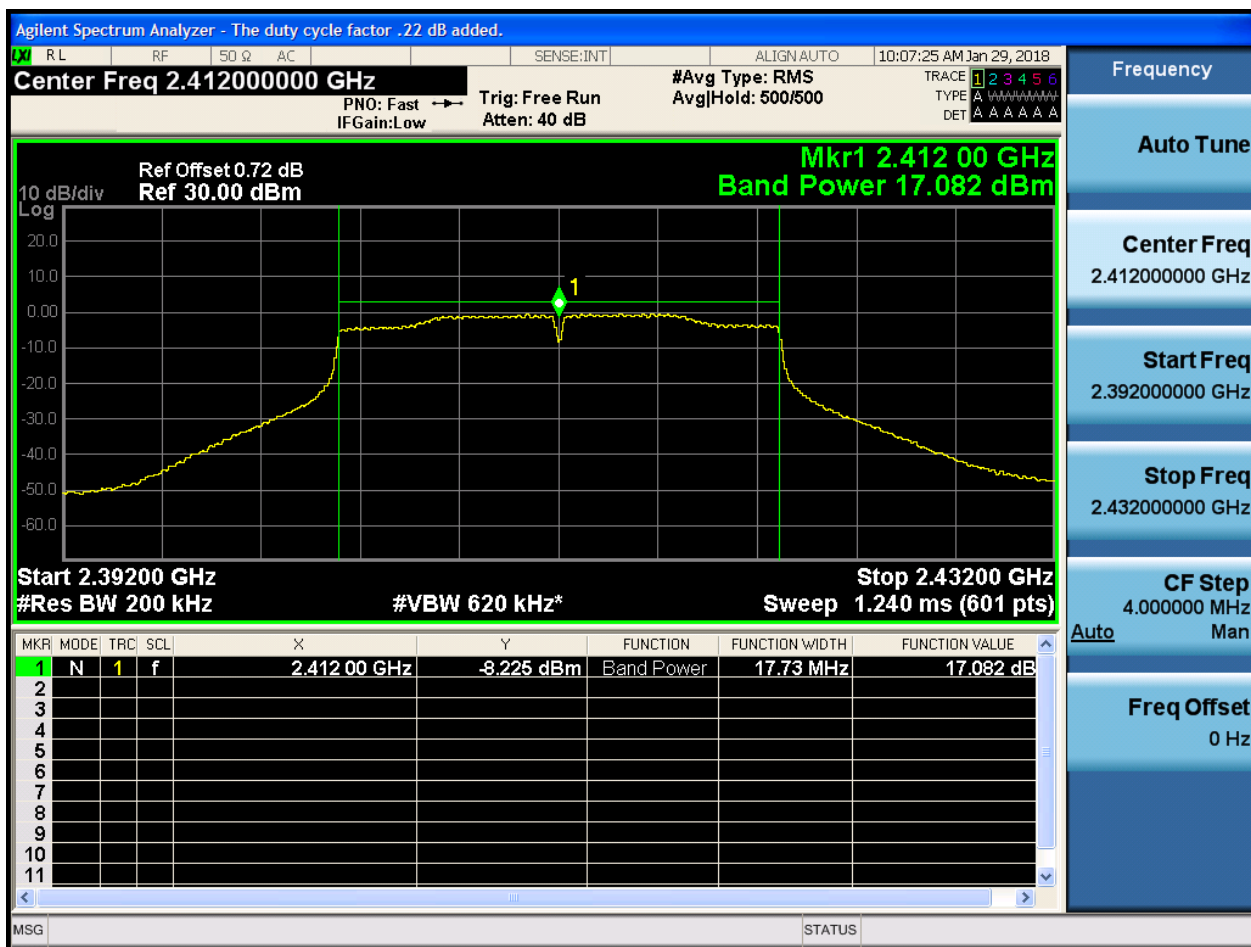


2.16 11G_H_2462@Ant 2



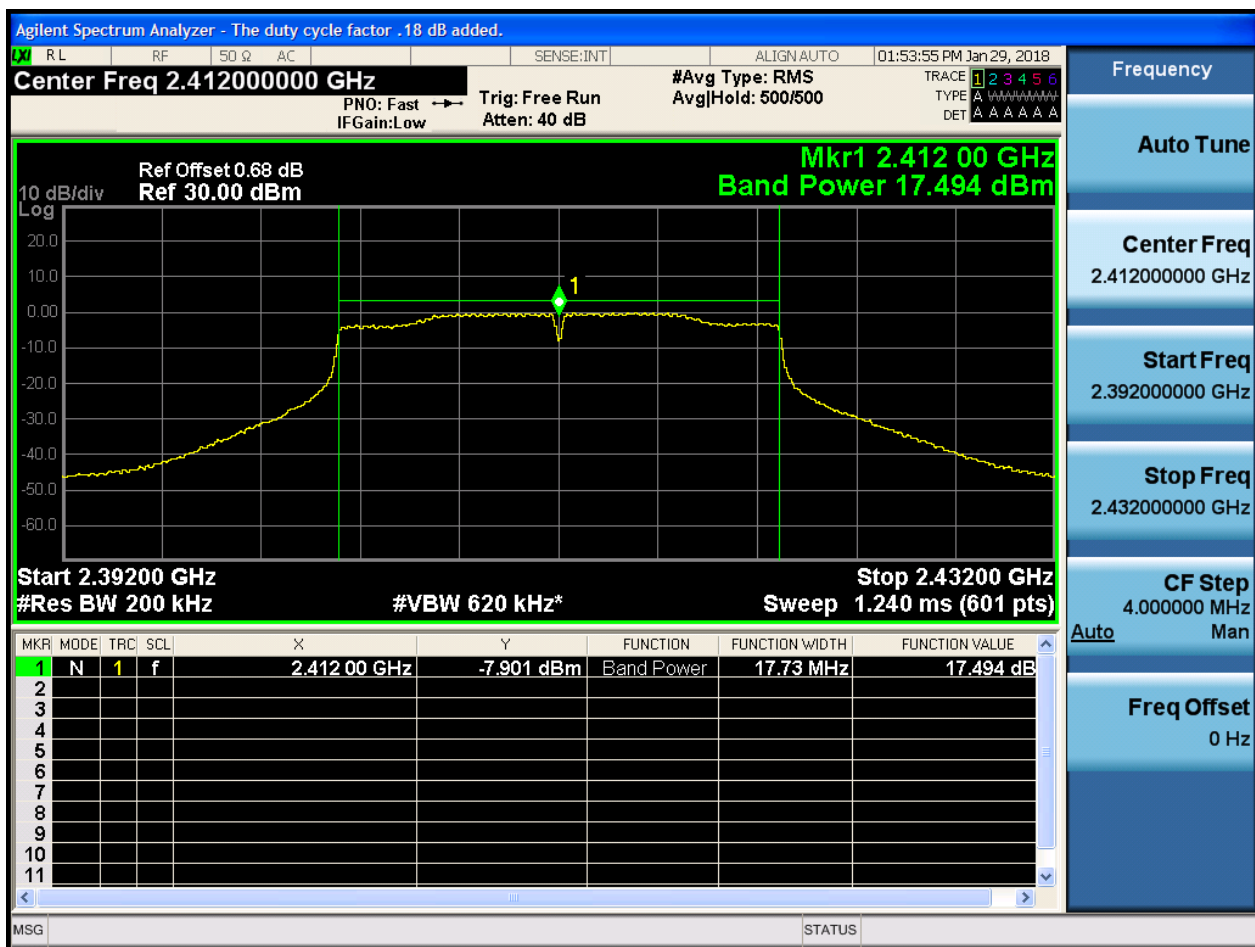


2.17 11N20_L@Ant 1





2.18 11N20_L@Ant 2





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

Center Freq 2.437000000 GHz #Avg Type: RMS AvgHold: 500/500

PNO: Fast Trig: Free Run IFGain:Low Atten: 40 dB

10:14:26 AM Jan 29, 2018

Ref Offset 0.72 dB Ref 30.00 dBm

Mkr1 2.437 00 GHz Band Power 17.557 dBm

Start 2.41700 GHz Stop 2.45700 GHz

#Res BW 200 kHz #VBW 620 kHz* Sweep 1.240 ms (601 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.437 00 GHz	-7.988 dBm	Band Power	17.73 MHz	17.557 dB
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

Frequency

Auto Tune

Center Freq 2.437000000 GHz

Start Freq 2.417000000 GHz

Stop Freq 2.457000000 GHz

CF Step 4.000000 MHz

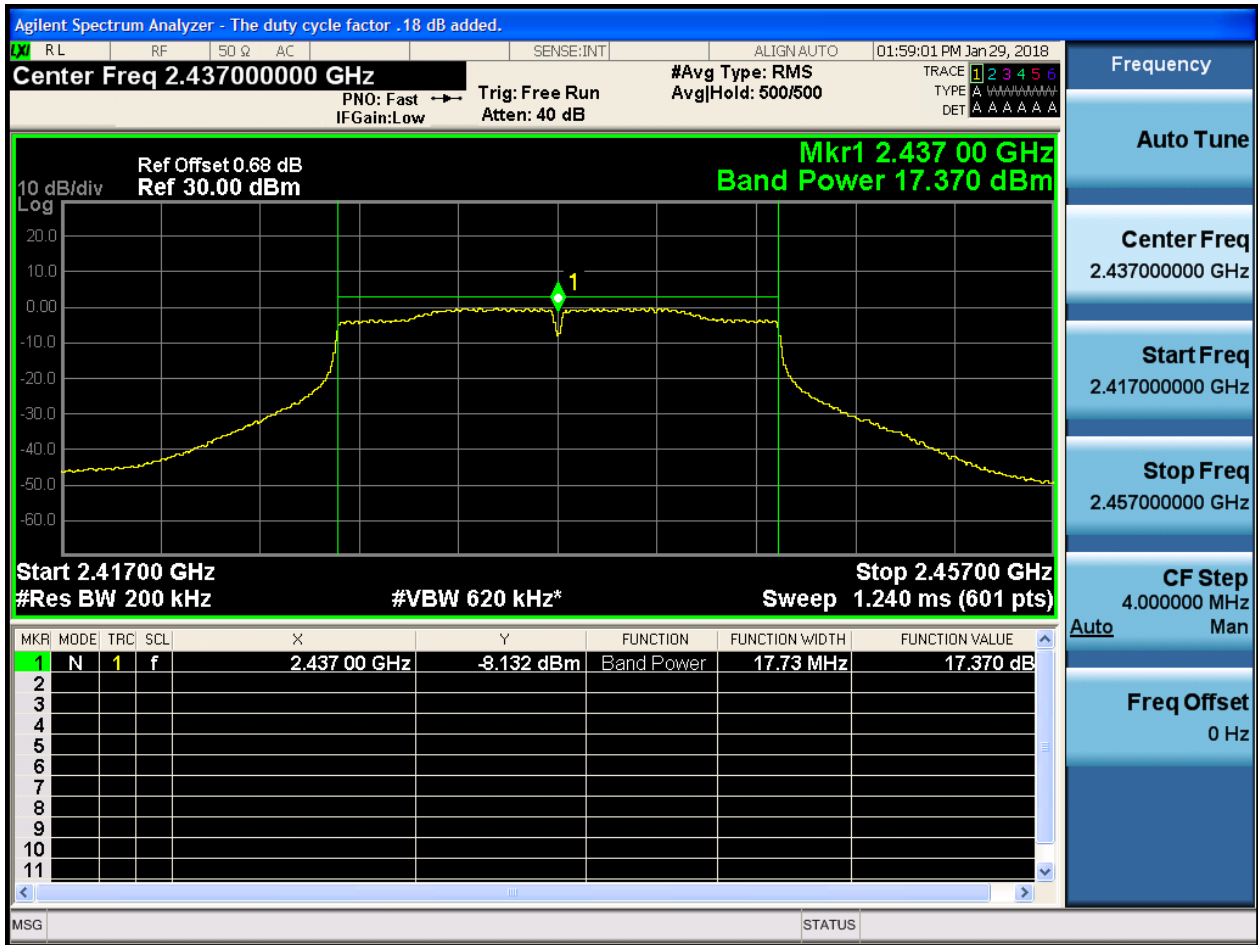
Auto Man

Freq Offset 0 Hz

MSG STATUS

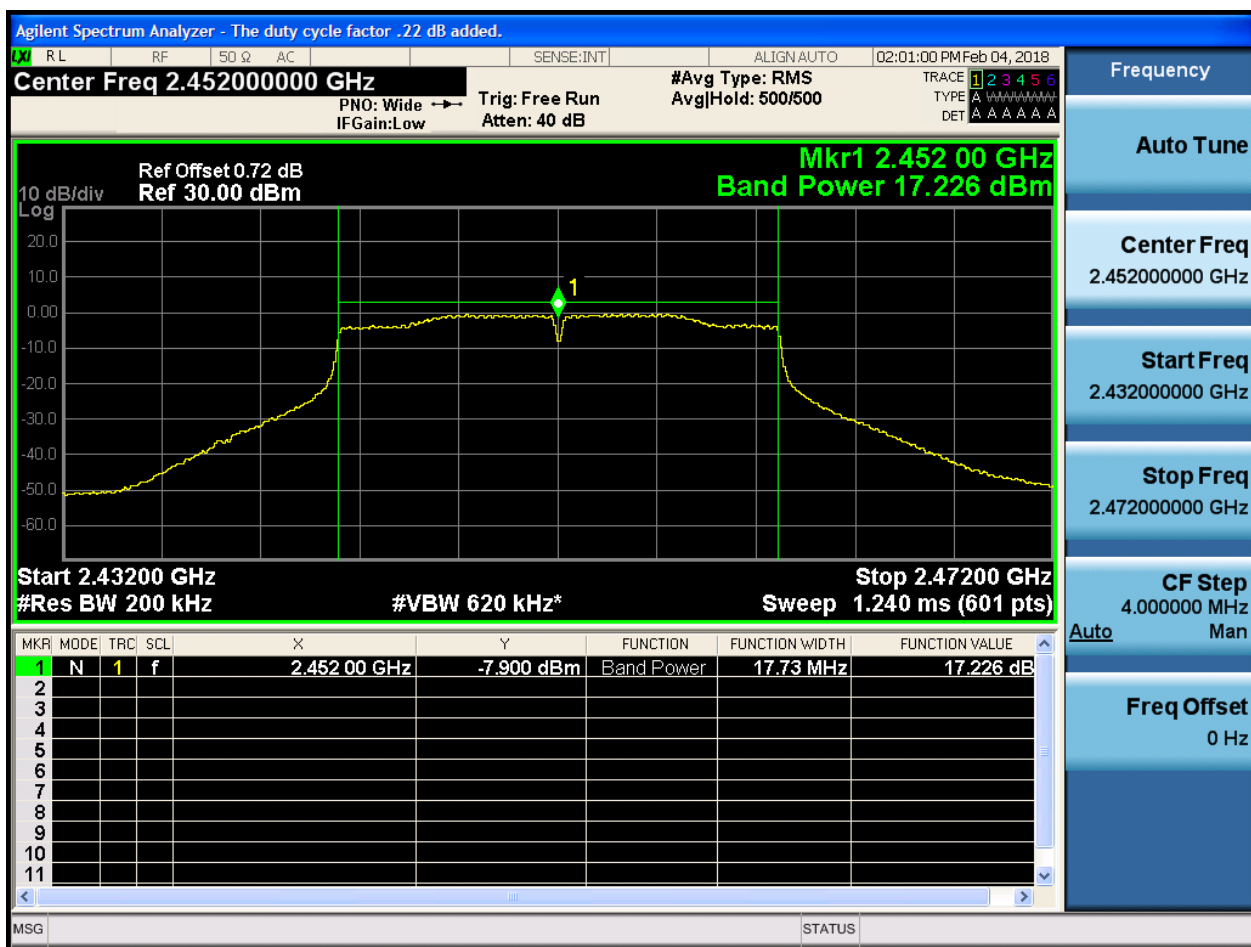


2.20 11N20_M@Ant 2



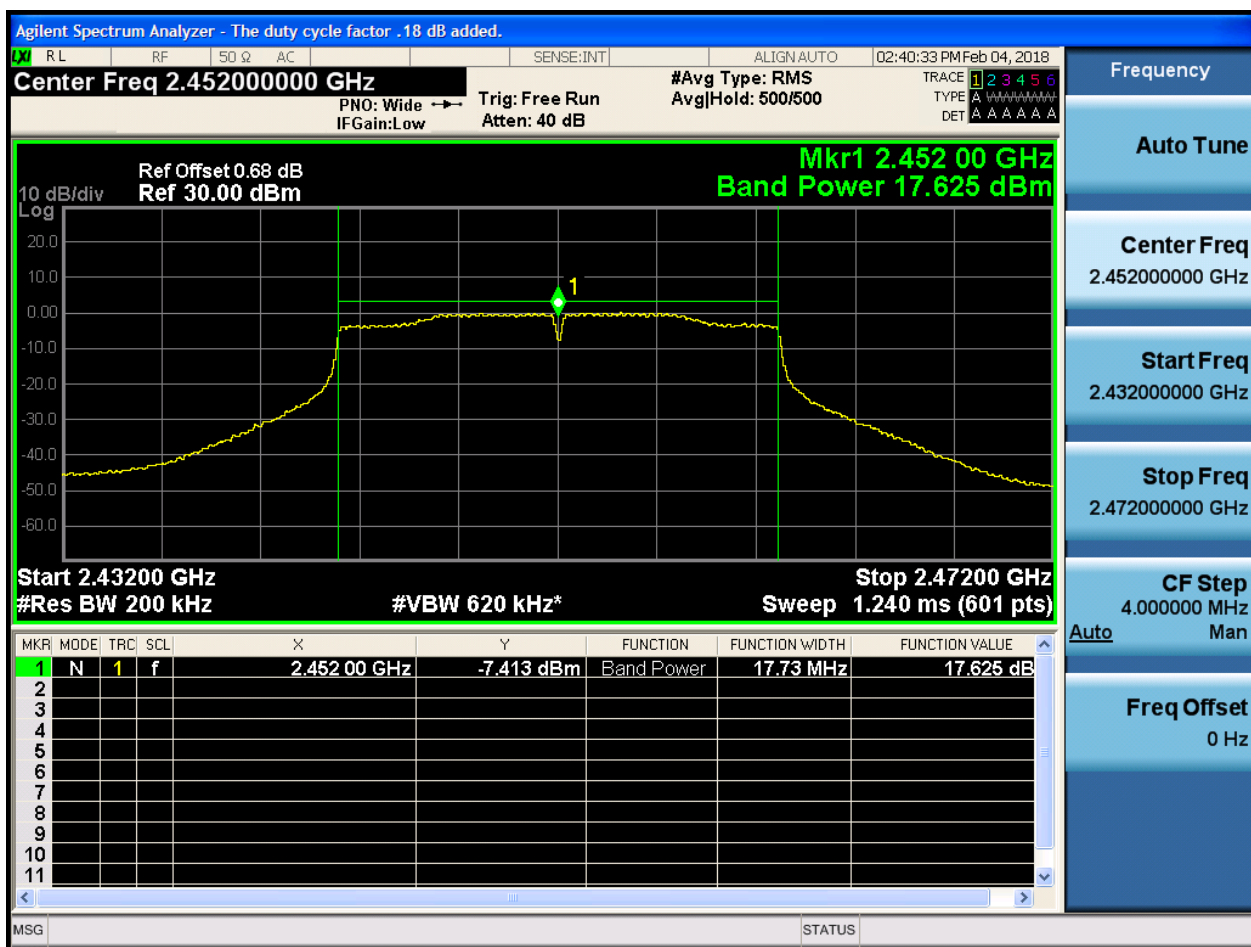


2.21 11N20_H_2452@Ant 1



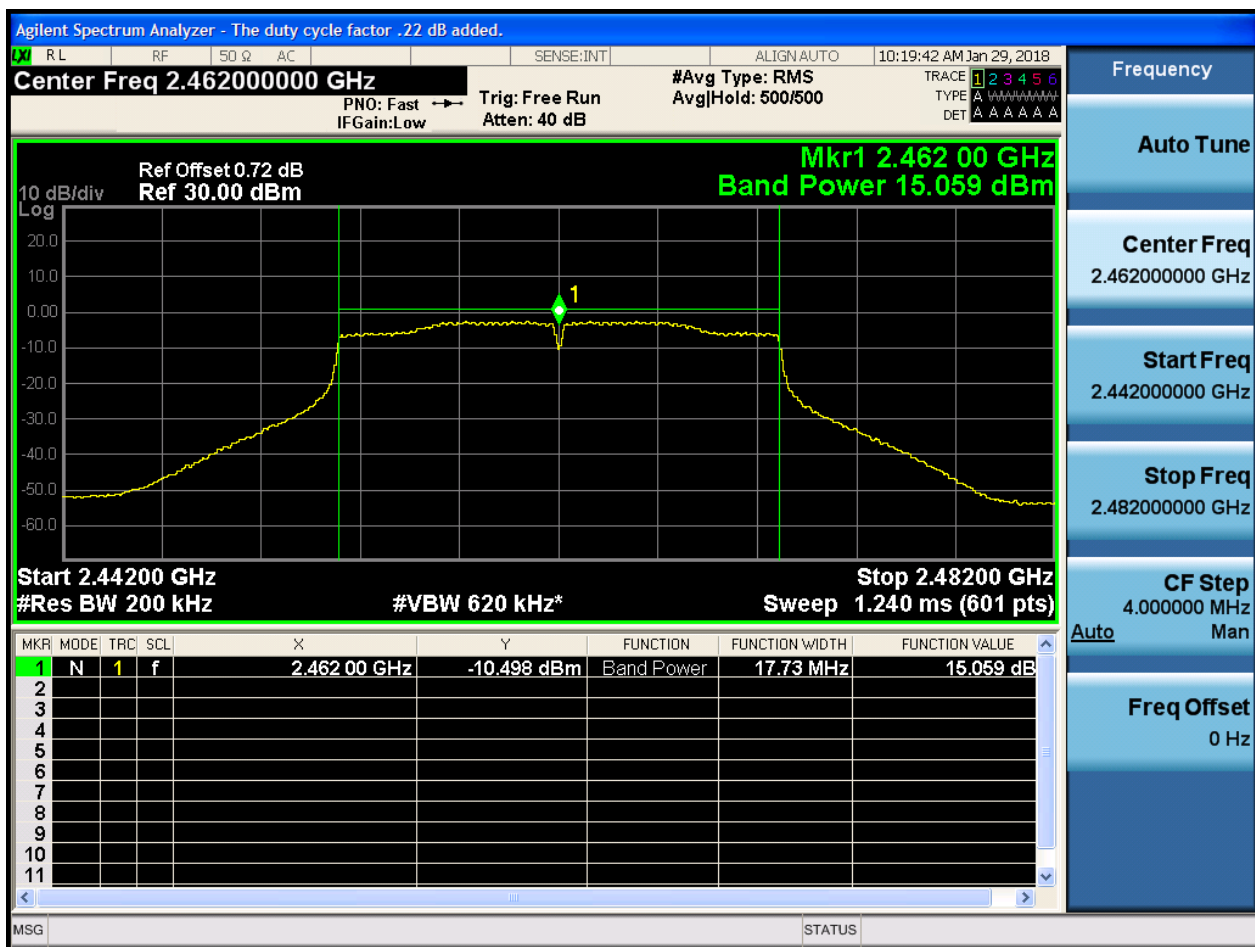


2.22 11N20_H_2452@Ant 2



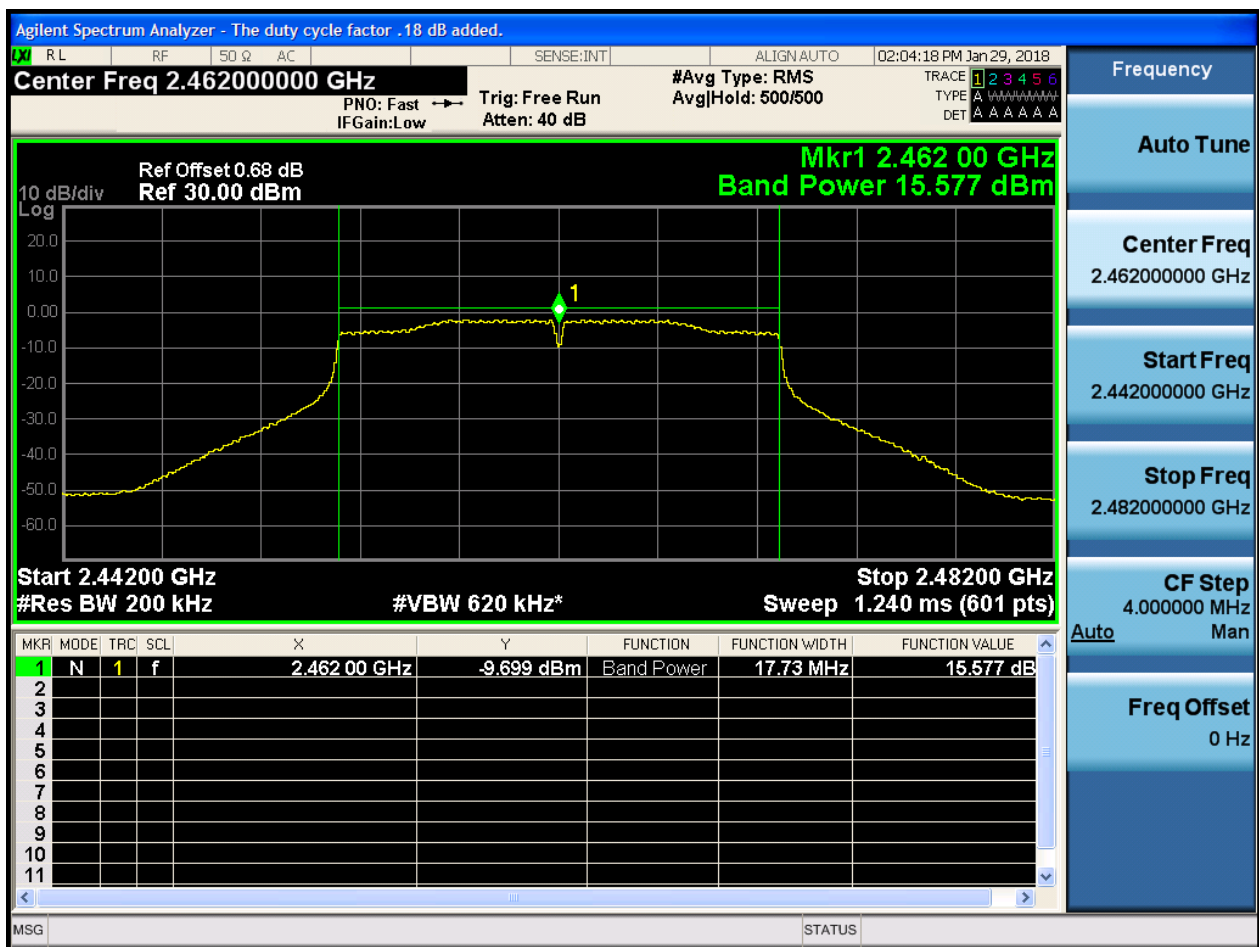


2.23 11N20_H_2462@Ant 1



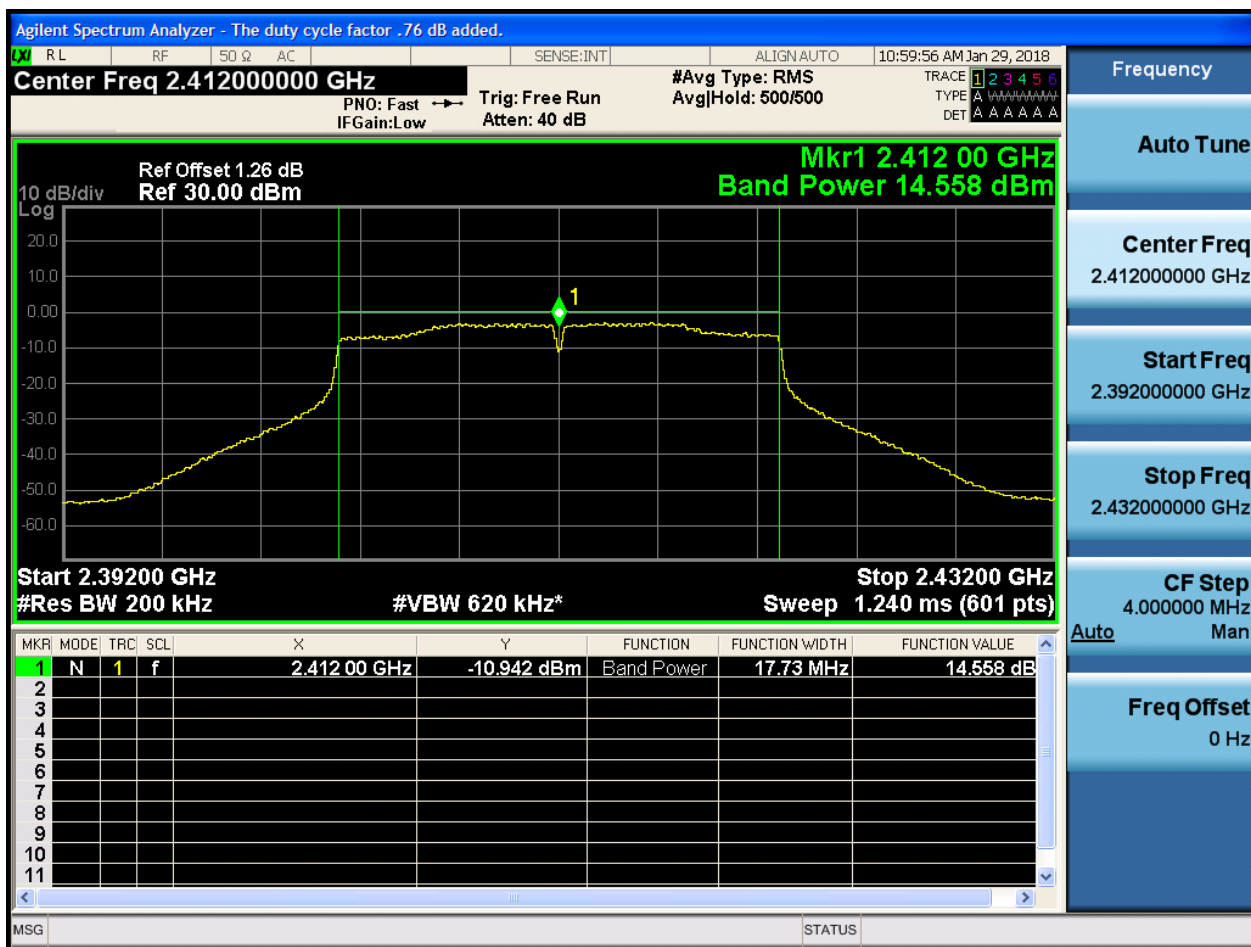


2.24 11N20_H_2462@Ant 2



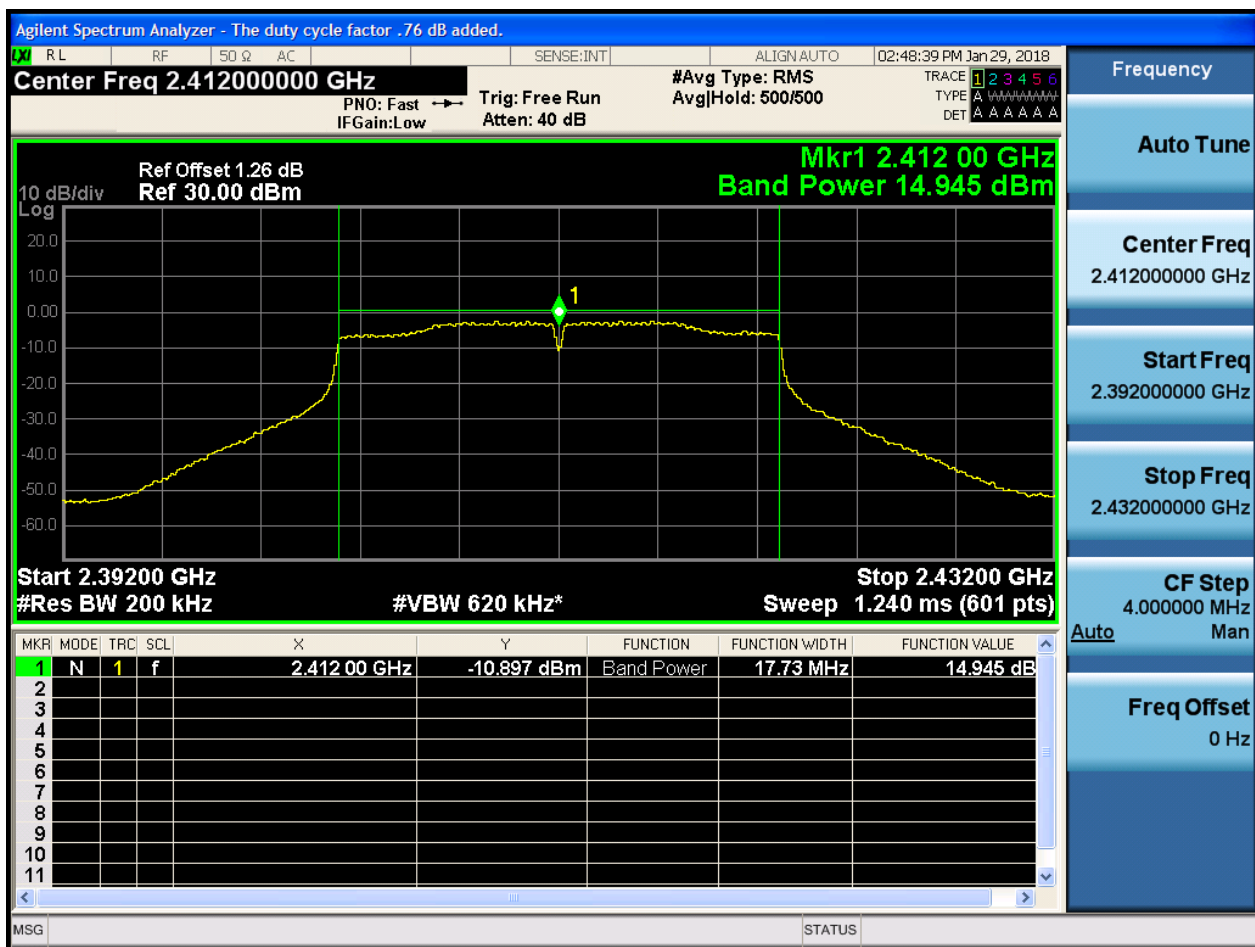


2.25 11N20m_L@Ant 1



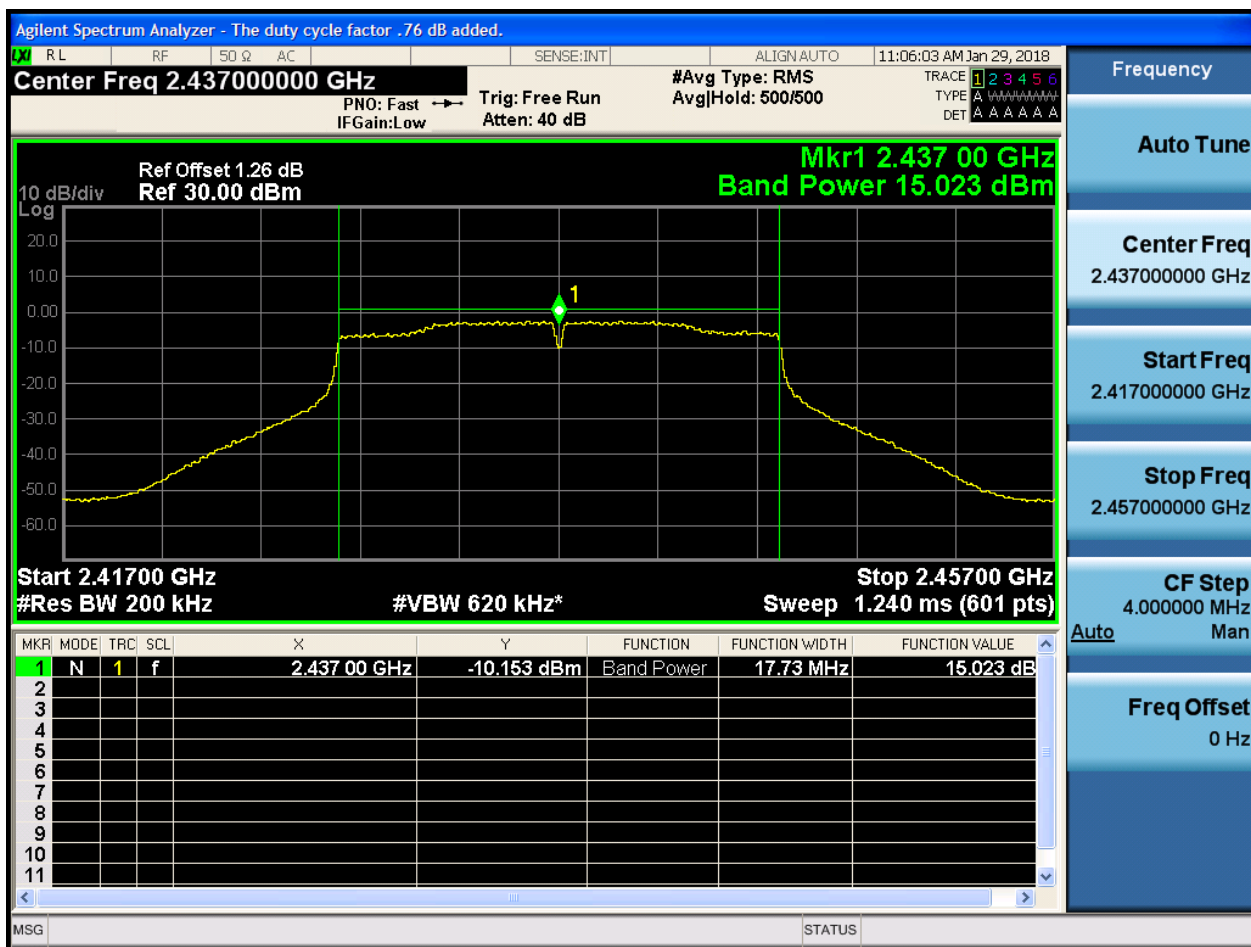


2.26 11N20m_L@Ant 2





2.27 11N20m_M@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .76 dB added.

Center Freq 2.437000000 GHz

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

Ref Offset 1.26 dB
Ref 30.00 dBm

Mkr1 2.437 00 GHz
Band Power 14.812 dBm

Start 2.41700 GHz
#Res BW 200 kHz

Stop 2.45700 GHz
Sweep 1.240 ms (601 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.437 00 GHz	-10.813 dBm	Band Power	17.73 MHz	14.812 dB
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

Frequency

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.417000000 GHz

Stop Freq
2.457000000 GHz

CF Step
4.000000 MHz
Man

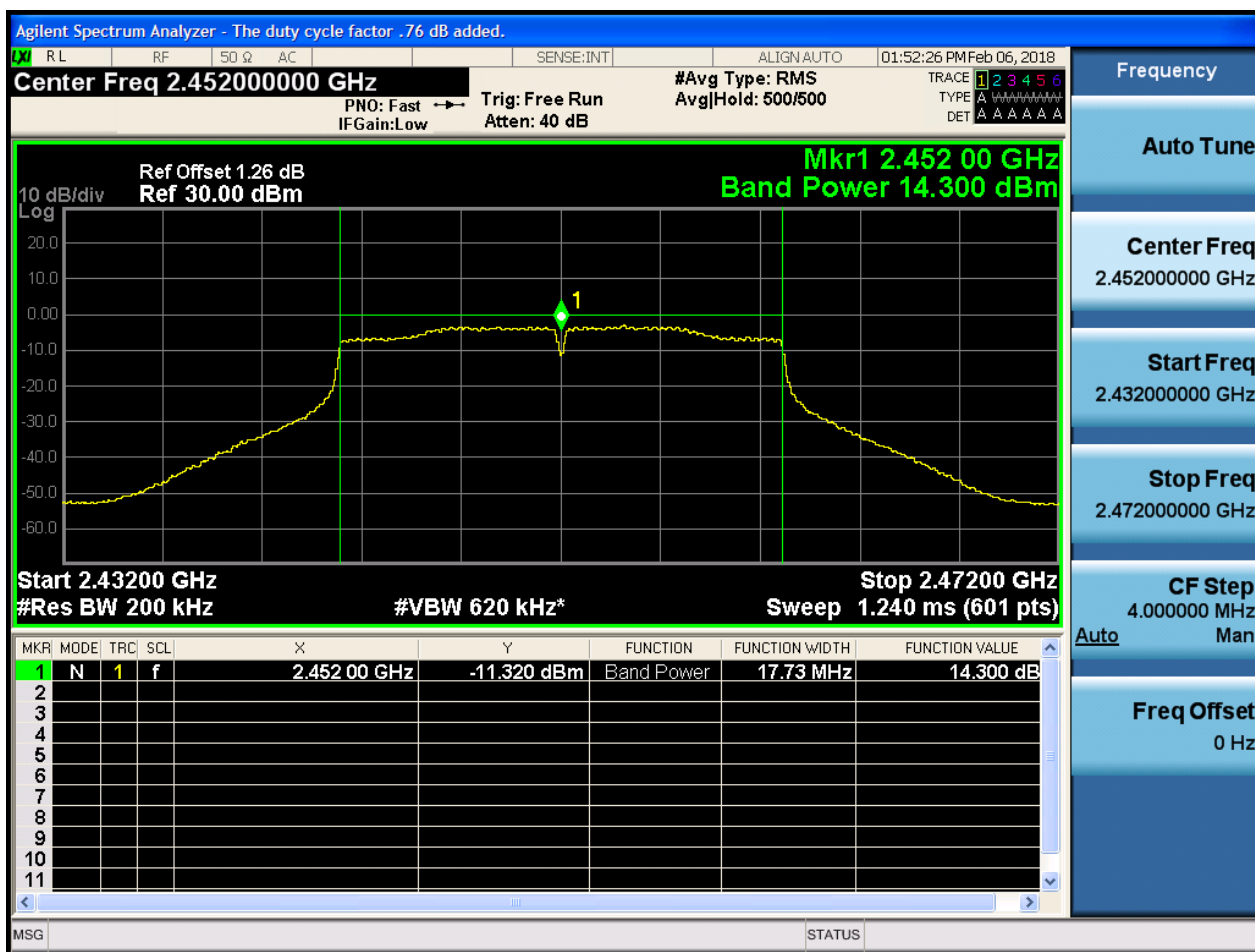
Freq Offset
0 Hz

MSG

STATUS

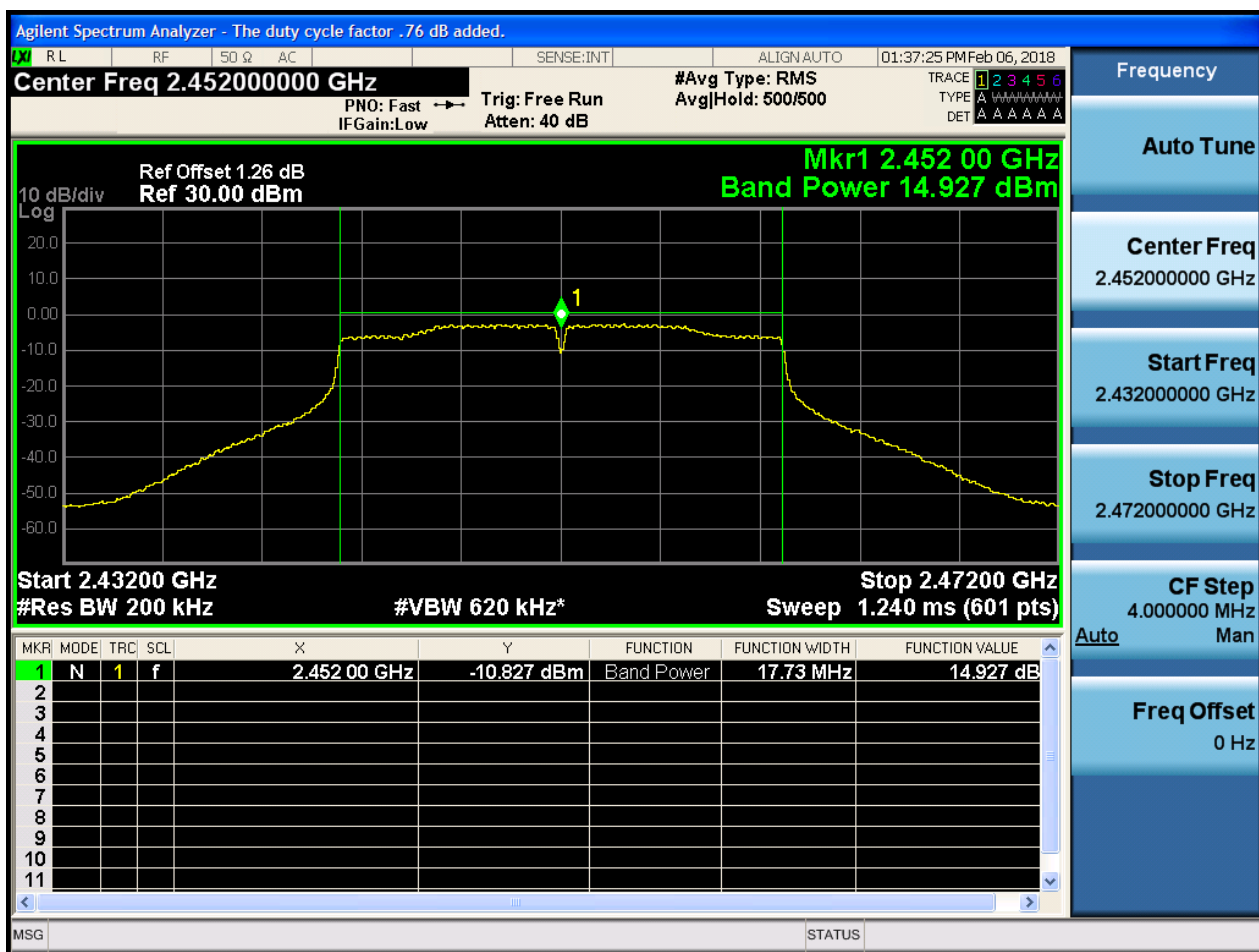


2.29 11N20m_H_2452@Ant 1



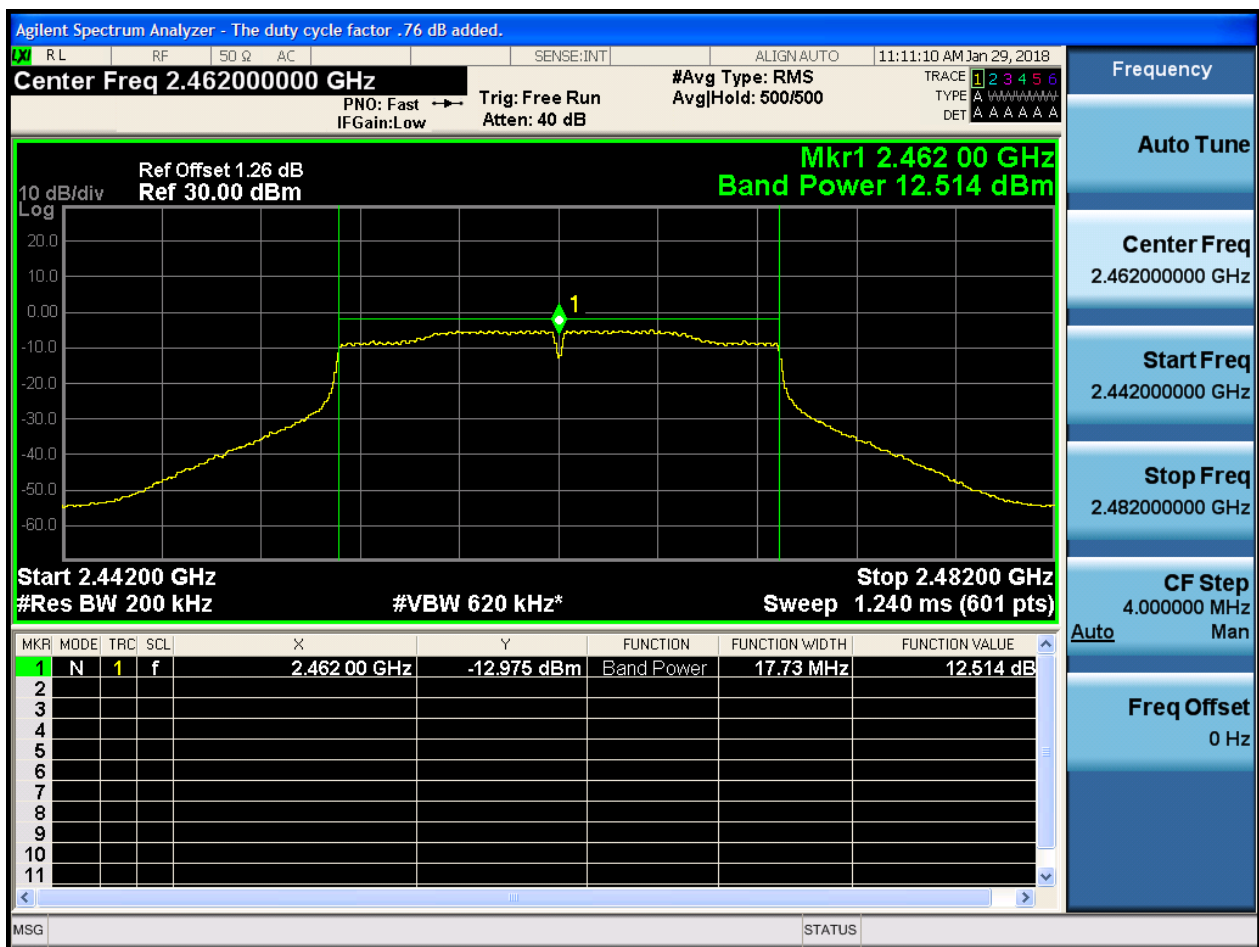


2.30 11N20m_H_2452@Ant 2



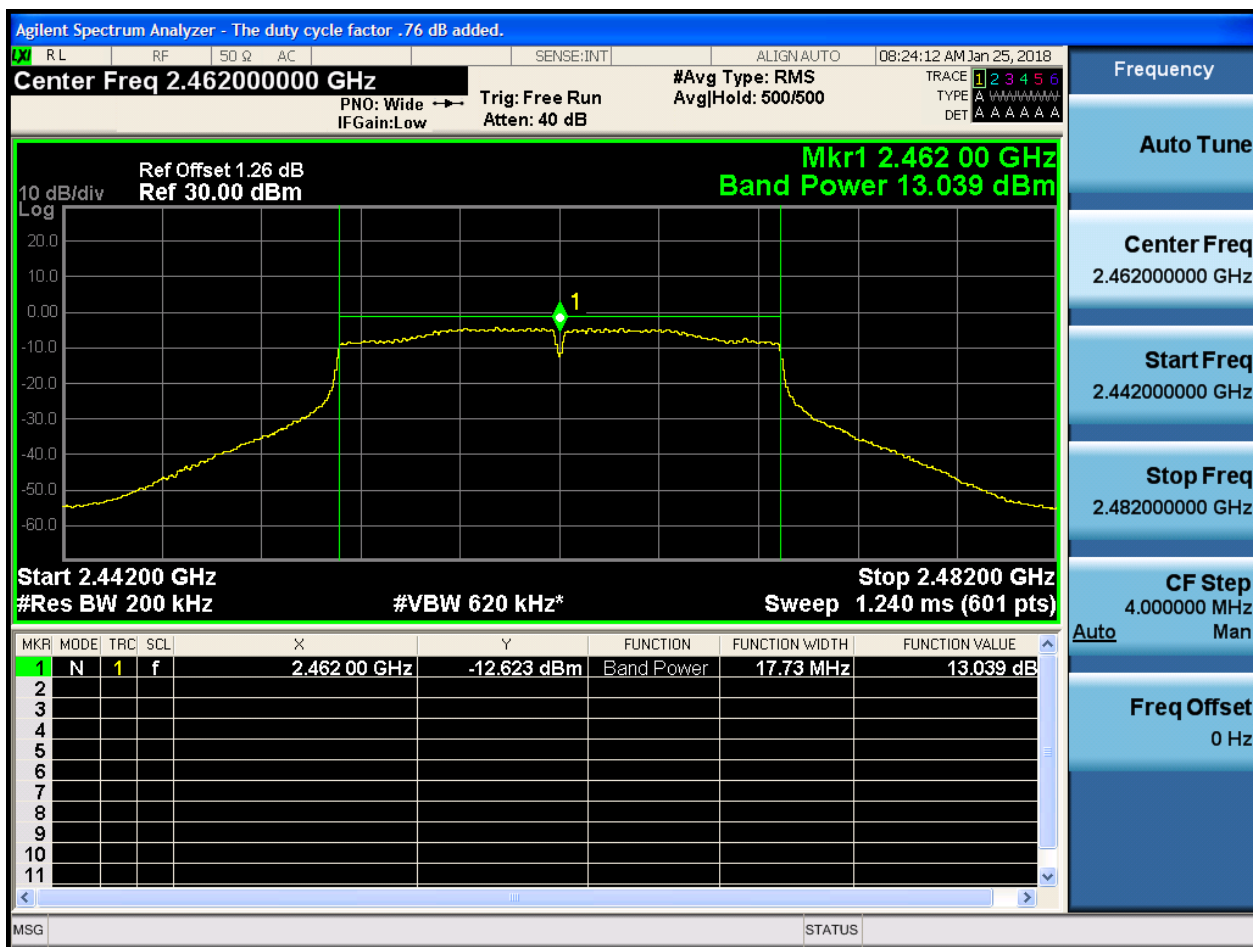


2.31 11N20m_H_2462@Ant 1



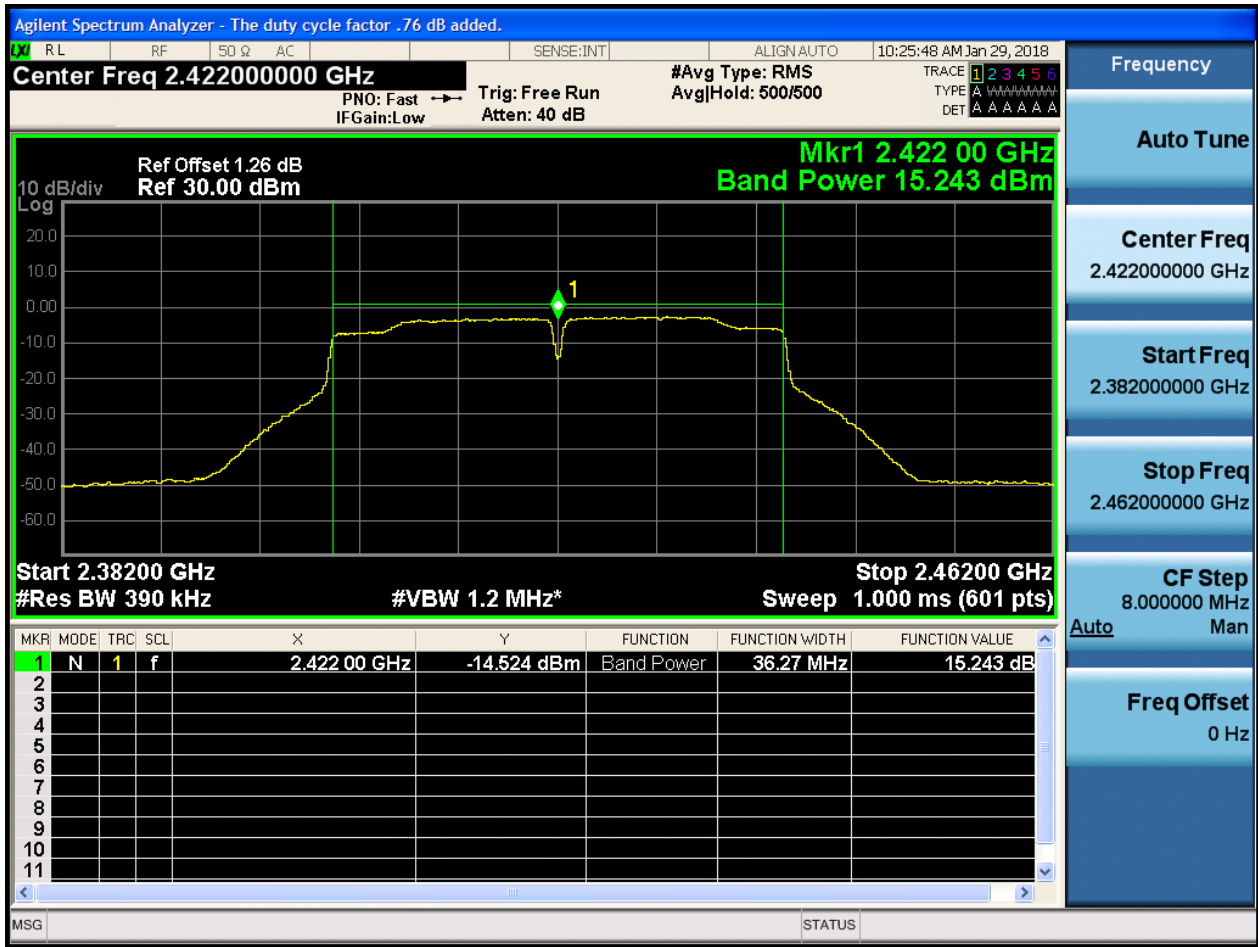


2.32 11N20m_H_2462@Ant 2





2.33 11N40_L@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .76 dB added.

Center Freq 2.422000000 GHz

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

02:11:21 PM Jan 29, 2018

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

PNO: Fast → Trig: Free Run
IFGain: Low Atten: 40 dB

Ref Offset 1.26 dB
Ref 30.00 dBm

Mkr1 2.422 00 GHz
Band Power 15.616 dBm

10 dB/div
Log

Start 2.38200 GHz
#Res BW 390 kHz

Stop 2.46200 GHz
Sweep 1.000 ms (601 pts)

#VBW 1.2 MHz*

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.422 00 GHz	-13.781 dBm	Band Power	36.27 MHz	15.616 dB
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.422000000 GHz

Start Freq
2.382000000 GHz

Stop Freq
2.462000000 GHz

CF Step
8.000000 MHz
Man

Auto

Freq Offset
0 Hz



Agilent Spectrum Analyzer - The duty cycle factor .76 dB added.

Center Freq 2.437000000 GHz

#Avg Type: RMS
AvgHold: 500/500

10:33:13 AM Jan 29, 2018

PNO: Fast → Trig: Free Run
IFGain: Low Atten: 40 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 1.26 dB
Ref 30.00 dBm

Mkr1 2.437 00 GHz
Band Power 15.460 dBm

Start 2.39700 GHz
#Res BW 390 kHz

Stop 2.47700 GHz
Sweep 1.000 ms (601 pts)

#VBW 1.2 MHz*

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.437 00 GHz	-13.715 dBm	Band Power	36.27 MHz	15.460 dB
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.397000000 GHz

Stop Freq
2.477000000 GHz

CF Step
8.000000 MHz
Man

Auto

Freq Offset
0 Hz



Agilent Spectrum Analyzer - The duty cycle factor .76 dB added.

Center Freq 2.43700000 GHz

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

Ref Offset 1.26 dB
Ref 30.00 dBm

Mkr1 2.437 00 GHz
Band Power 15.551 dBm

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.437 00 GHz	-13.813 dBm	Band Power	36.27 MHz	15.551 dB
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

Start 2.39700 GHz
#Res BW 390 kHz

Stop 2.47700 GHz
Sweep 1.000 ms (601 pts)

#VBW 1.2 MHz*

Frequency

Auto Tune

Center Freq
2.43700000 GHz

Start Freq
2.39700000 GHz

Stop Freq
2.47700000 GHz

CF Step
8.000000 MHz

Auto

Freq Offset
0 Hz

MSG

STATUS



Agilent Spectrum Analyzer - The duty cycle factor .76 dB added.

Center Freq 2.45200000 GHz

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

10:42:20 AM Jan 29, 2018

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

PNO: Fast → Trig: Free Run
IFGain: Low Atten: 40 dB

Ref Offset 1.26 dB
Ref 30.00 dBm

Mkr1 2.452 00 GHz
Band Power 15.386 dBm

Start 2.41200 GHz
#Res BW 390 kHz

Stop 2.49200 GHz
Sweep 1.000 ms (601 pts)

#VBW 1.2 MHz*

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.452 00 GHz	-14.175 dBm	Band Power	36.27 MHz	15.386 dB
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.45200000 GHz

Start Freq
2.41200000 GHz

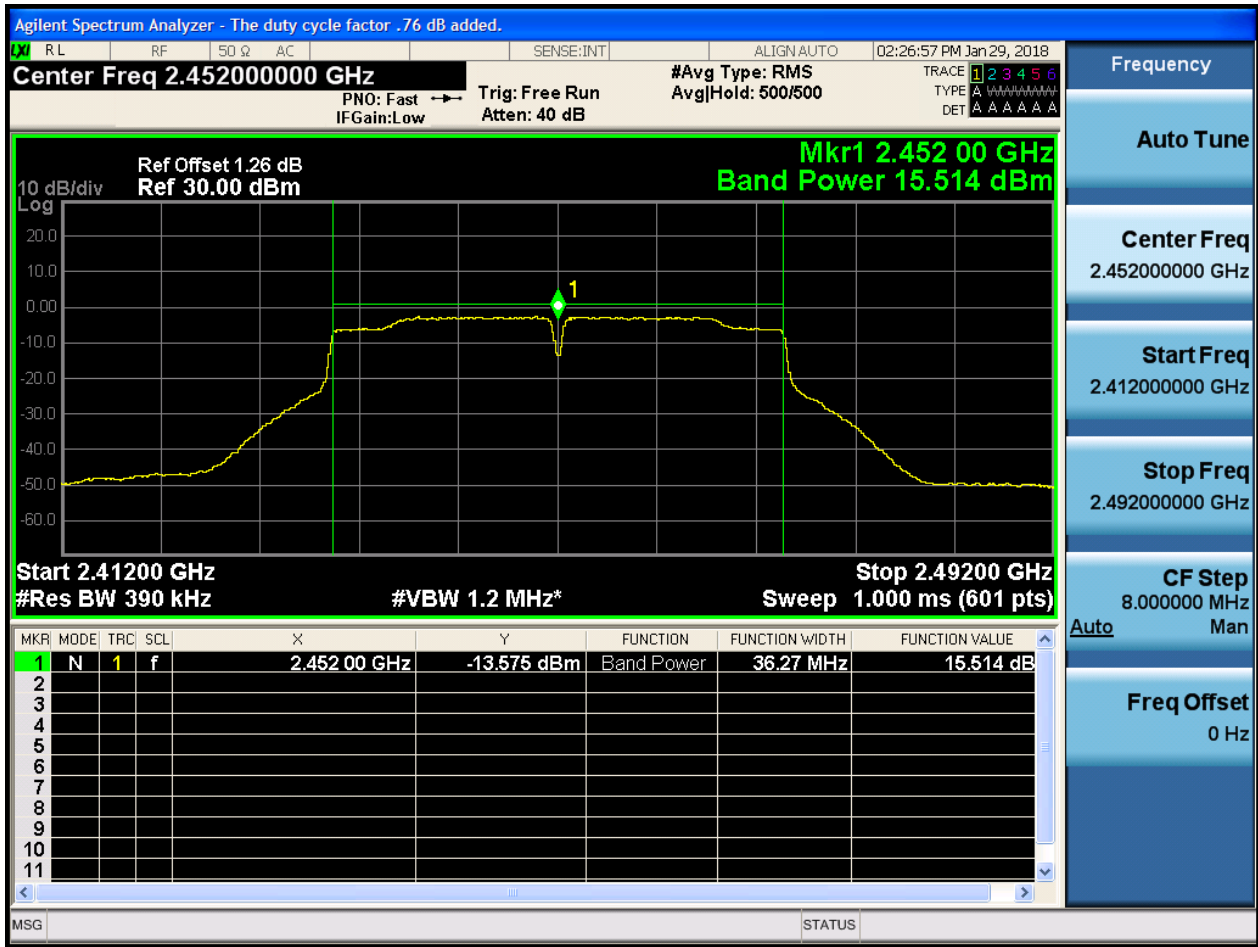
Stop Freq
2.49200000 GHz

CF Step
8.000000 MHz
Man

Freq Offset
0 Hz

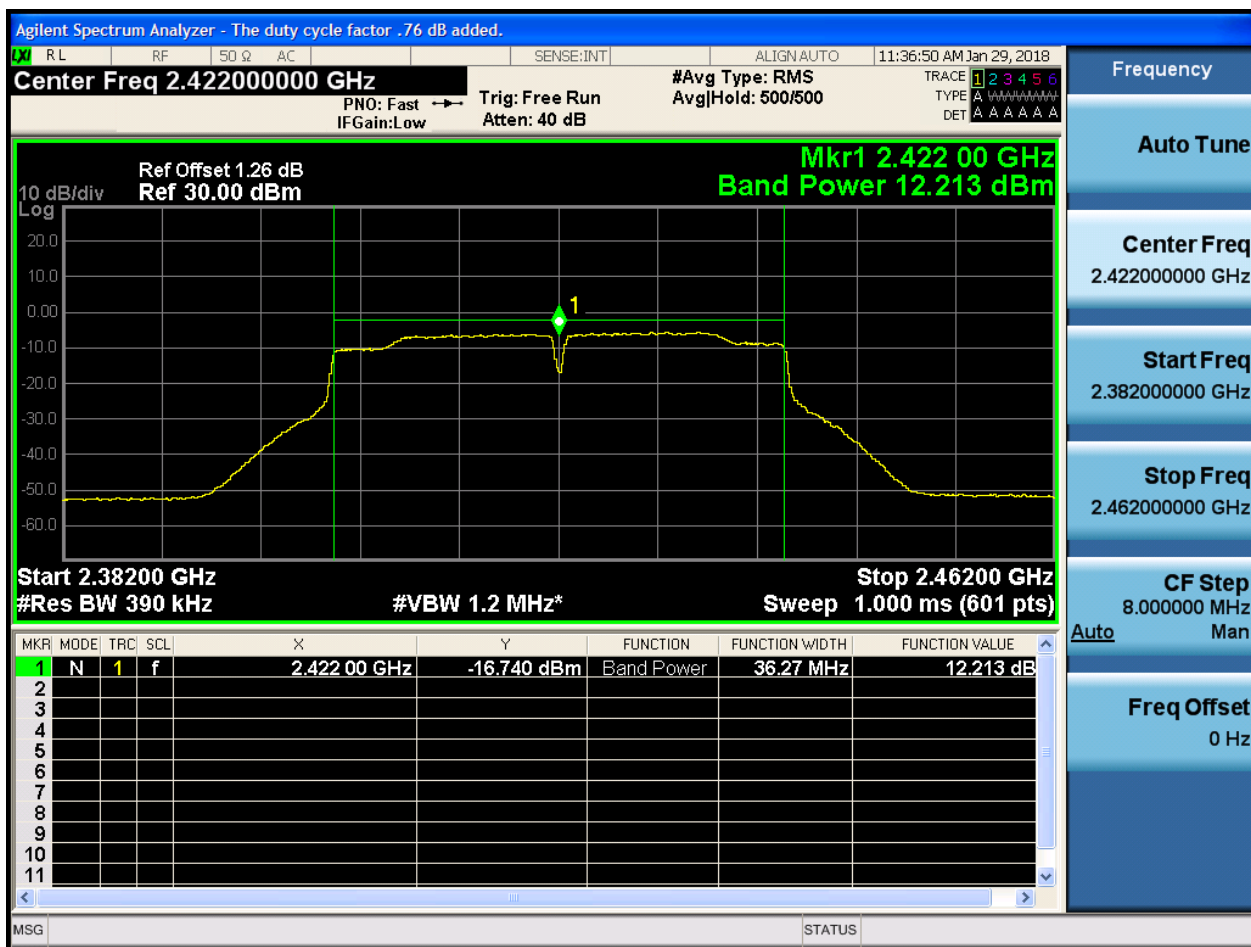


2.38 11N40_H@Ant 2





2.39 11N40m_L@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .81 dB added.

Center Freq 2.422000000 GHz

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

03:05:19 PM Jan 29, 2018

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

PNO: Fast → Trig: Free Run
IFGain:Low Atten: 40 dB

Ref Offset 1.31 dB
Ref 30.00 dBm

Mkr1 2.422 00 GHz
Band Power 12.650 dBm

10 dB/div Log

Start 2.38200 GHz

#Res BW 390 kHz

#VBW 1.2 MHz*

Stop 2.46200 GHz

Sweep 1.000 ms (601 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.422 00 GHz	-16.455 dBm	Band Power	36.27 MHz	12.650 dB
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.422000000 GHz

Start Freq
2.382000000 GHz

Stop Freq
2.462000000 GHz

CF Step
8.000000 MHz
Man

Auto

Freq Offset
0 Hz



Agilent Spectrum Analyzer - The duty cycle factor .76 dB added.

Center Freq 2.43700000 GHz

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

12:07:53 PM Jan 29, 2018

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

PNO: Fast → Trig: Free Run
IFGain:Low Atten: 40 dB

Ref Offset 1.26 dB
Ref 30.00 dBm

Mkr1 2.437 00 GHz
Band Power 12.501 dBm

Start 2.39700 GHz
#Res BW 390 kHz

Stop 2.47700 GHz
Sweep 1.000 ms (601 pts)

#VBW 1.2 MHz*

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.437 00 GHz	-16.545 dBm	Band Power	36.27 MHz	12.501 dB
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.397000000 GHz

Stop Freq
2.477000000 GHz

CF Step
8.000000 MHz
Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - The duty cycle factor .81 dB added.

Center Freq 2.43700000 GHz

#Avg Type: RMS
AvgHold: 500/500

03:12:11 PM Jan 29, 2018

PNO: Fast → Trig: Free Run
IFGain:Low Atten: 40 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 1.31 dB
Ref 30.00 dBm

Mkr1 2.437 00 GHz
Band Power 12.572 dBm

10 dB/div
Log

Start 2.39700 GHz
#Res BW 390 kHz

Stop 2.47700 GHz
Sweep 1.000 ms (601 pts)

#VBW 1.2 MHz*

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.437 00 GHz	-16.729 dBm	Band Power	36.27 MHz	12.572 dB
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.397000000 GHz

Stop Freq
2.477000000 GHz

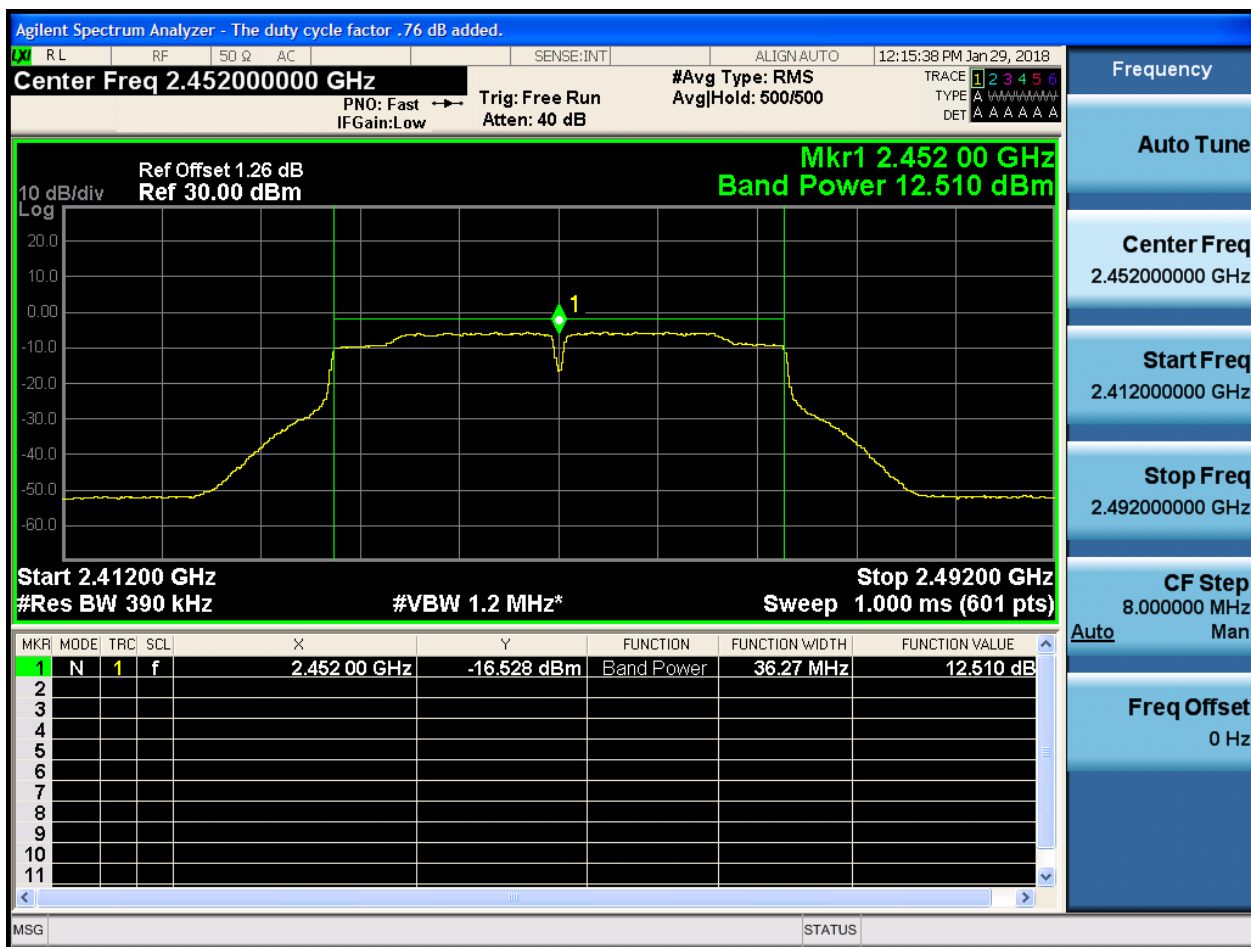
CF Step
8.000000 MHz
Man

Freq Offset
0 Hz

MSG STATUS

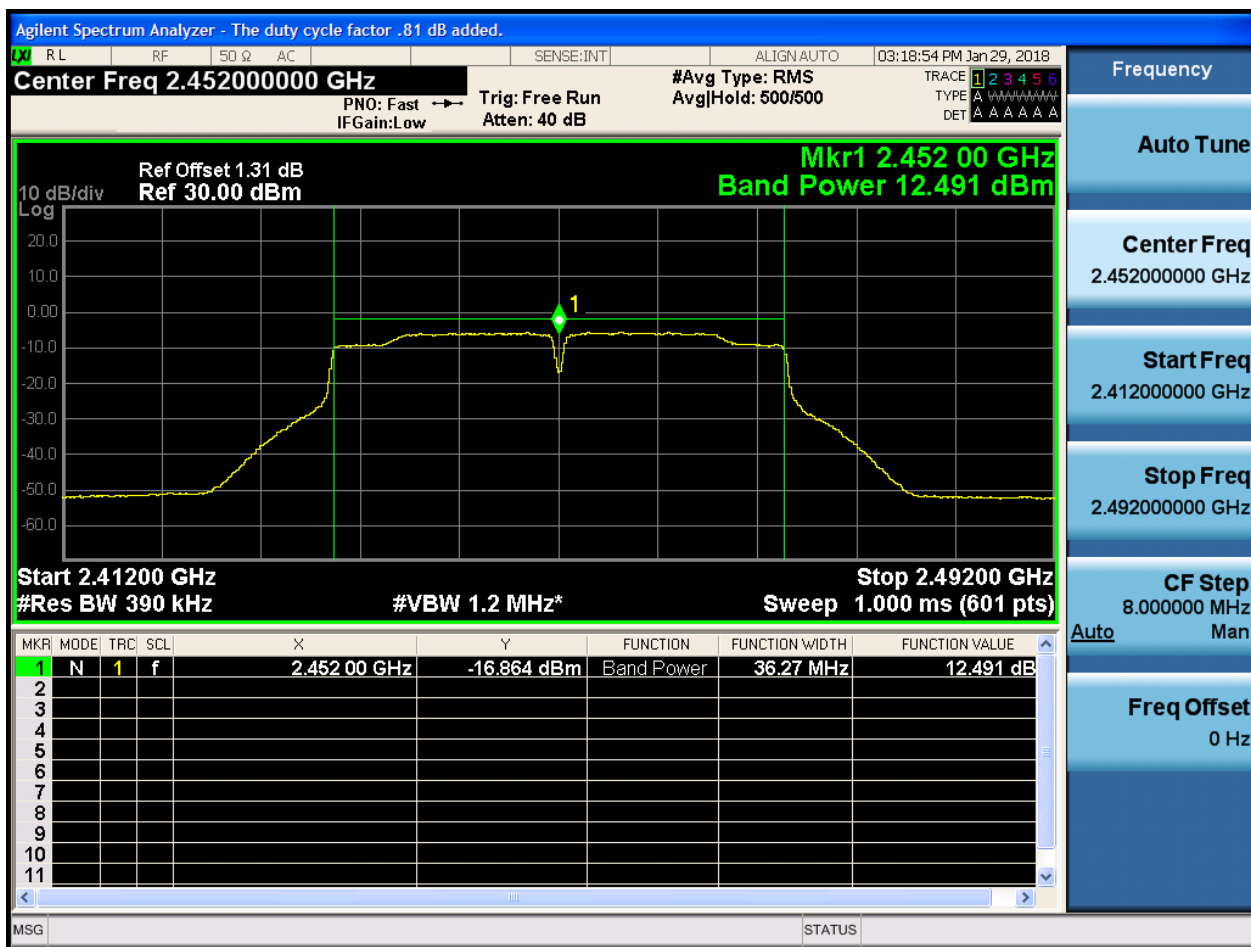


2.43 11N40m_H@Ant 1





2.44 11N40m_H@Ant 2



Appendix E: Maximum Conducted Peak Output Power

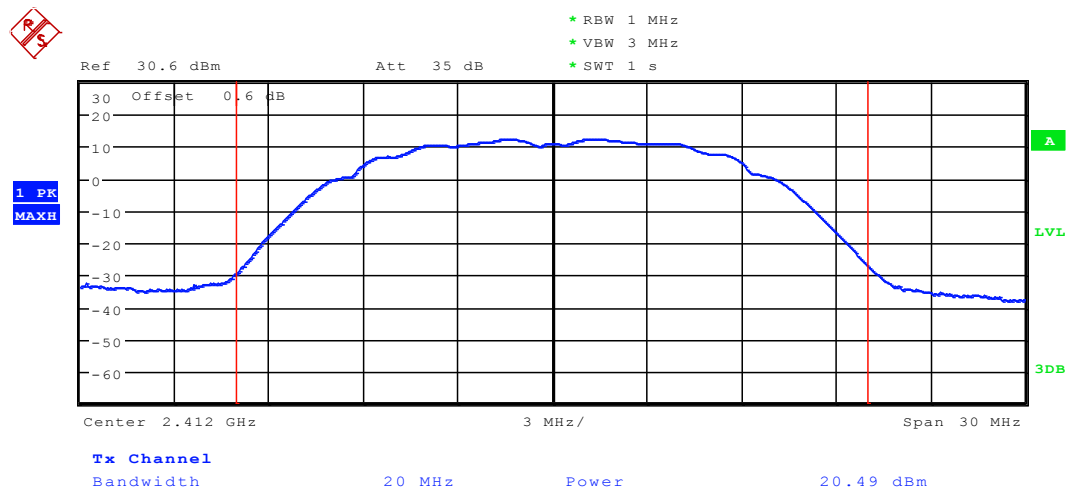
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
11B	L	2412	Ant 1	20.49	pass
11B	L	2412	Ant 2	20.71	pass
11B	M	2437	Ant 1	20.9	pass
11B	M	2437	Ant 2	20.6	pass
11B	H	2452	Ant 1	20.45	pass
11B	H	2452	Ant 2	20.56	pass
11B	H	2462	Ant 1	18.34	pass
11B	H	2462	Ant 2	18.67	pass
11G	L	2412	Ant 1	26.15	pass
11G	L	2412	Ant 2	26.35	pass
11G	M	2437	Ant 1	26.57	pass
11G	M	2437	Ant 2	26.19	pass
11G	H	2452	Ant 1	25.95	pass
11G	H	2452	Ant 2	26.17	pass
11G	H	2462	Ant 1	24.06	pass
11G	H	2462	Ant 2	24.09	pass
11N20	L	2412	Ant 1	25.97	pass
11N20	L	2412	Ant 2	26.36	pass
11N20	M	2437	Ant 1	26.4	pass
11N20	M	2437	Ant 2	26.2	pass
11N20	H	2452	Ant 1	26.24	pass
11N20	H	2452	Ant 2	26.5	pass
11N20	H	2462	Ant 1	23.97	pass
11N20	H	2462	Ant 2	24.27	pass
11N20m	L	2412	Ant 1	24.05	pass
11N20m	L	2412	Ant 2	24.87	pass
11N20m	L	2412	SUM	27.49	pass
11N20m	M	2437	Ant 1	24.57	pass
11N20m	M	2437	Ant 2	24.77	pass
11N20m	M	2437	SUM	27.68	pass
11N20m	H	2452	Ant 1	23.93	pass
11N20m	H	2452	Ant 2	25.1	pass
11N20m	H	2452	SUM	27.56	pass
11N20m	H	2462	Ant 1	21.97	pass
11N20m	H	2462	Ant 2	22.77	pass

Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
11N20m	H	2462	SUM	25.4	pass
11N40	L	2422	Ant 1	24.41	pass
11N40	L	2422	Ant 2	24.68	pass
11N40	M	2437	Ant 1	24.58	pass
11N40	M	2437	Ant 2	24.66	pass
11N40	H	2452	Ant 1	24.49	pass
11N40	H	2452	Ant 2	24.51	pass
11N40m	L	2422	Ant 1	22.22	pass
11N40m	L	2422	Ant 2	22.74	pass
11N40m	L	2422	SUM	25.5	pass
11N40m	M	2437	Ant 1	22.4	pass
11N40m	M	2437	Ant 2	22.82	pass
11N40m	M	2437	SUM	25.63	pass
11N40m	H	2452	Ant 1	22.35	pass
11N40m	H	2452	Ant 2	22.56	pass
11N40m	H	2452	SUM	25.47	pass

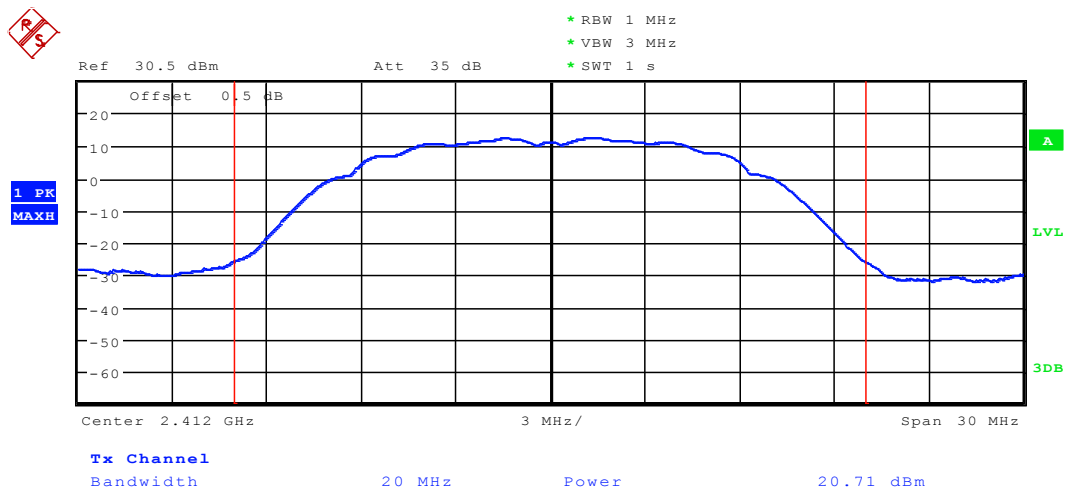
Part II - Test Plots

2.1 11B_L@Ant 1



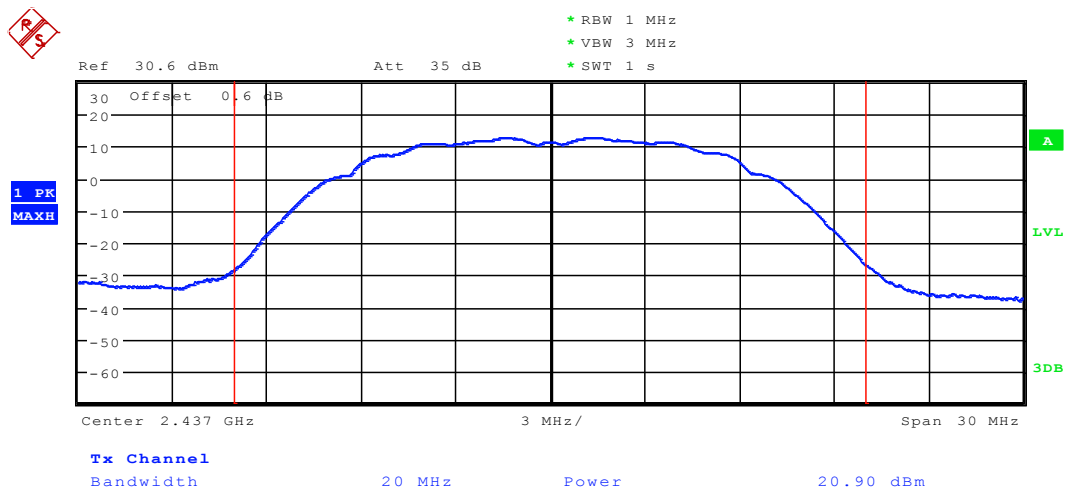
Date: 25.JAN.2018 10:45:46

2.2 11B_L@Ant 2



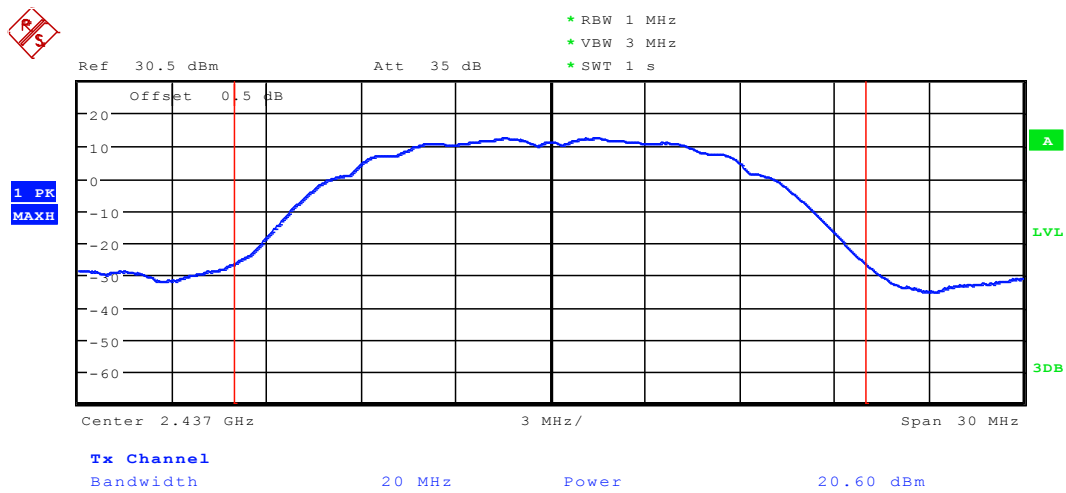
Date: 25.JAN.2018 11:54:34

2.3 11B_M@Ant 1



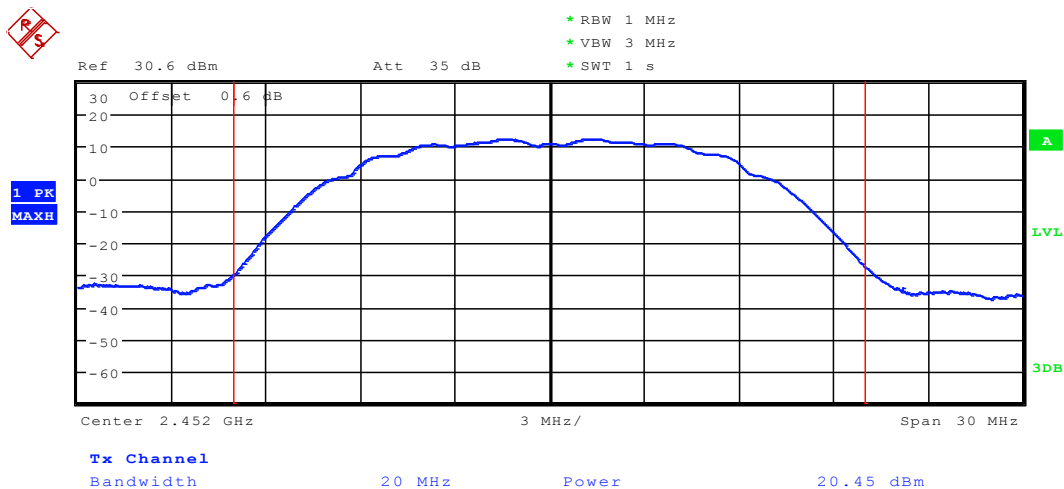
Date: 25.JAN.2018 10:46:51

2.4 11B_M@Ant 2



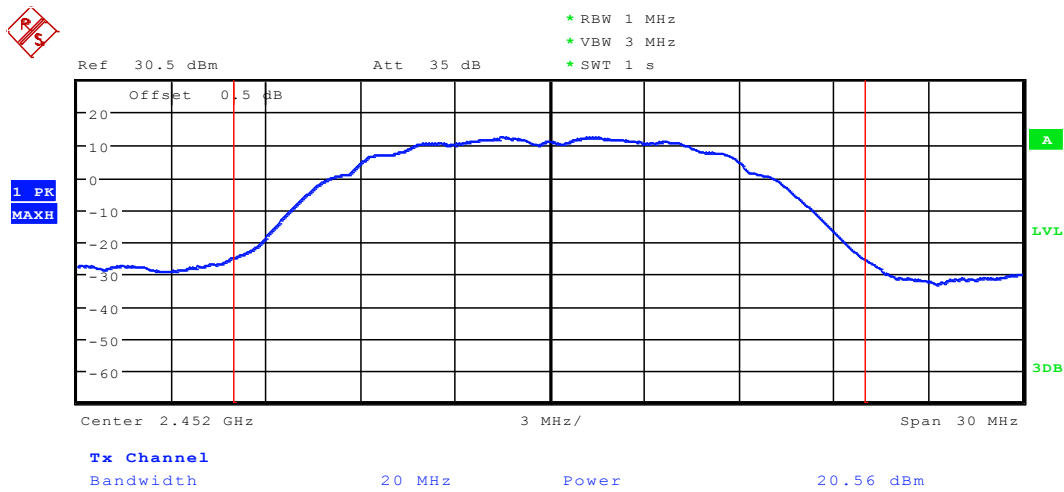
Date: 25.JAN.2018 11:55:26

2.5 11B_H_2452@Ant 1



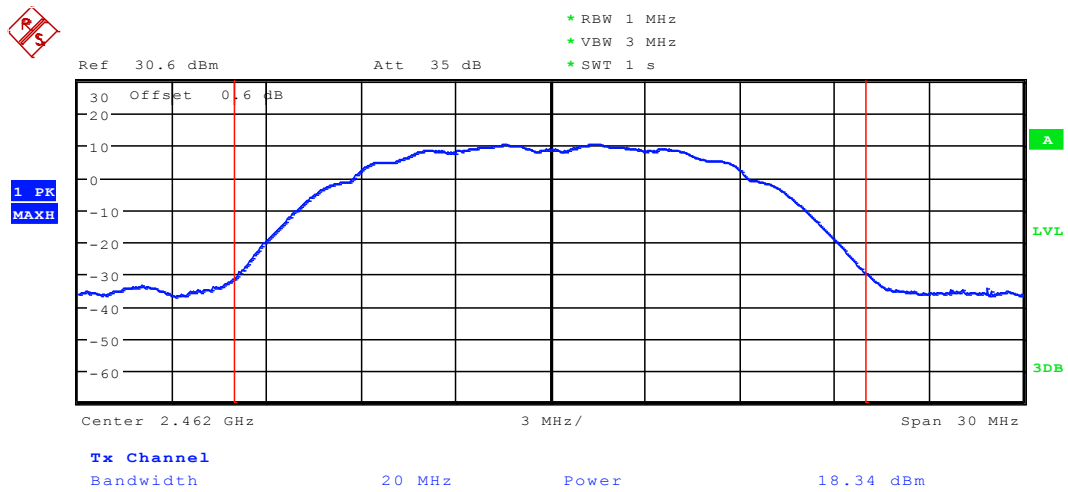
Date: 4.FEB.2018 18:41:15

2.6 11B_H_2452@Ant 2



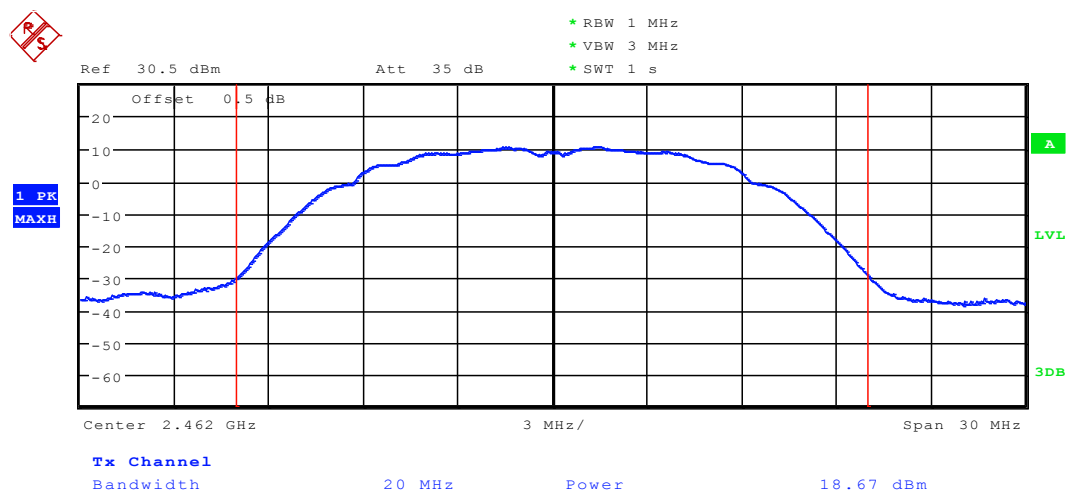
Date: 4.FEB.2018 18:47:01

2.7 11B_H_2462@Ant 1



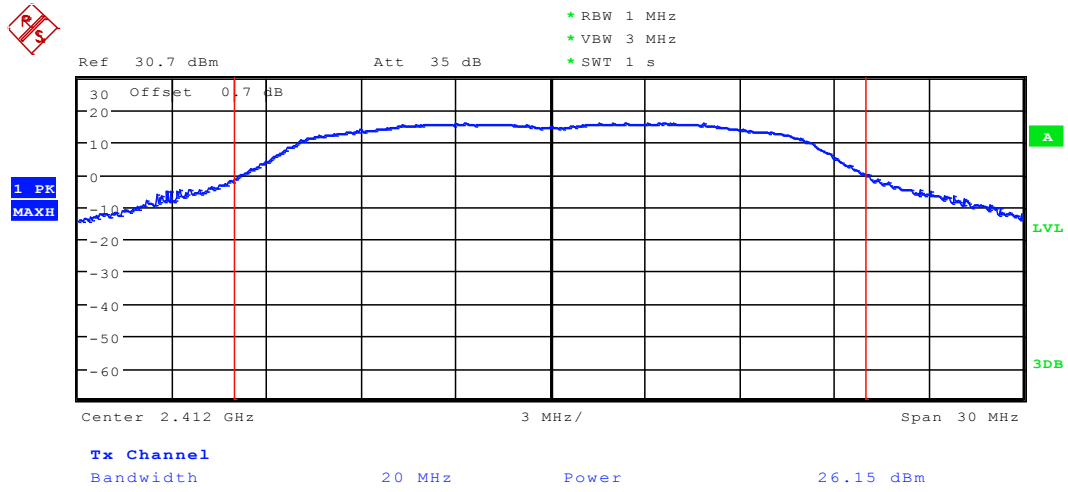
Date: 25.JAN.2018 10:49:00

2.8 11B_H_2462@Ant 2



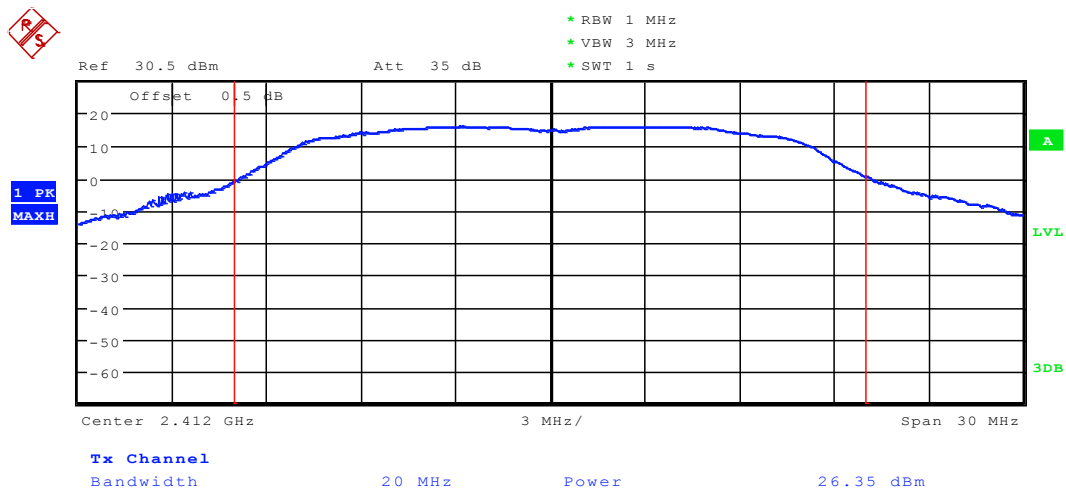
Date: 25.JAN.2018 11:56:23

2.9 11G_L@Ant 1



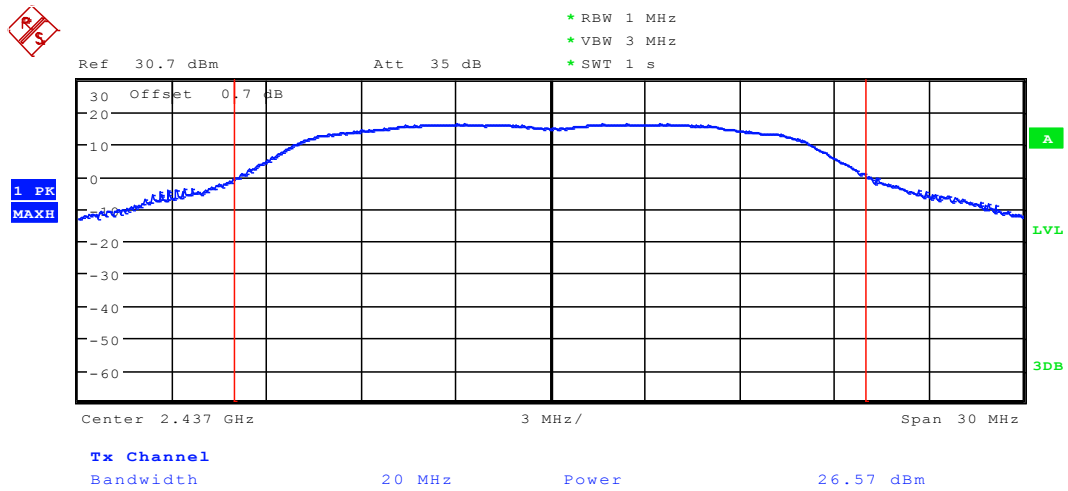
Date: 25.JAN.2018 10:51:09

2.10 11G_L@Ant 2



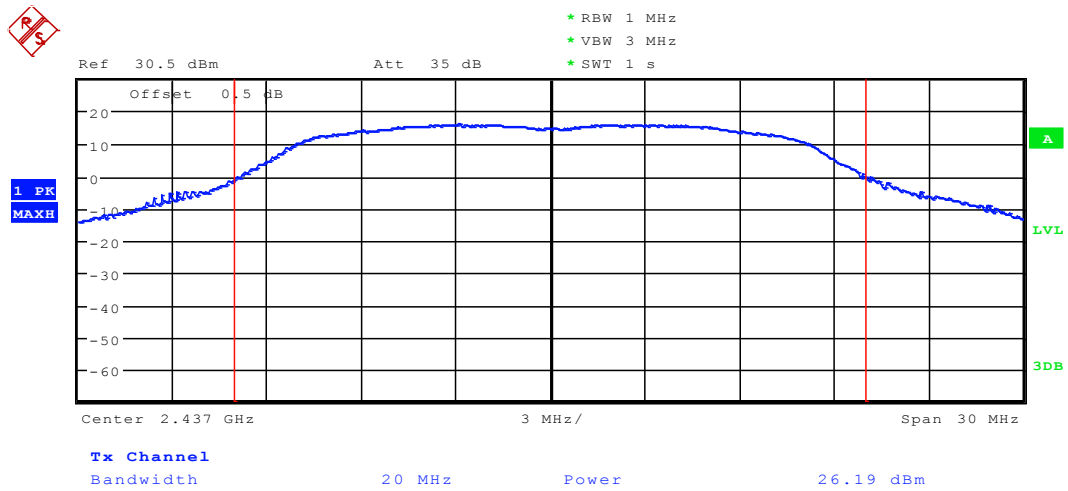
Date: 25.JAN.2018 11:59:07

2.11 11G_M@Ant 1



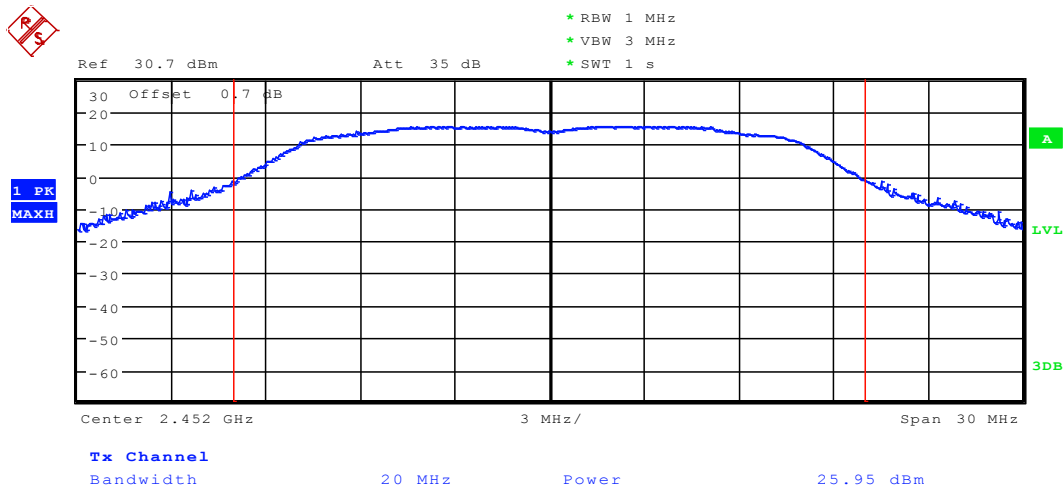
Date: 25.JAN.2018 10:52:19

2.12 11G_M@Ant 2



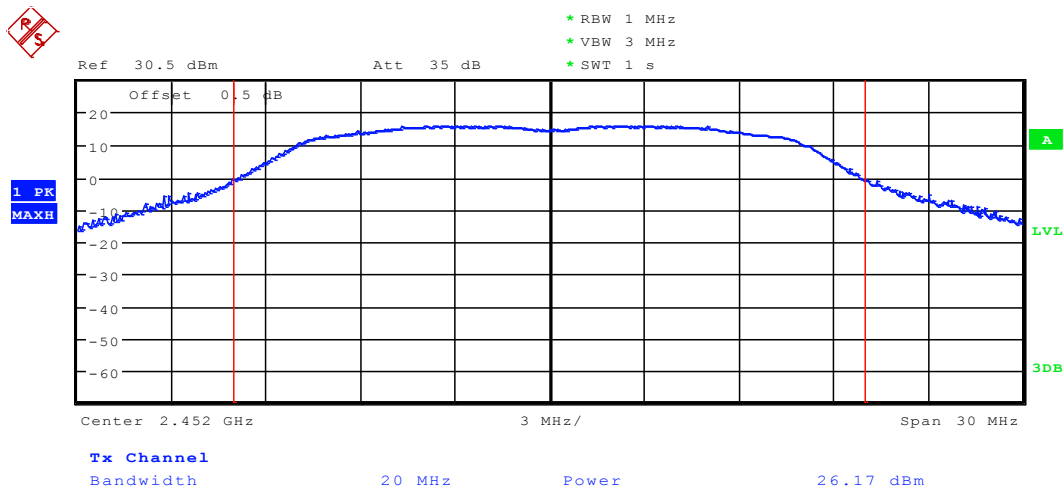
Date: 25.JAN.2018 12:00:56

2.13 11G_H_2452@Ant 1



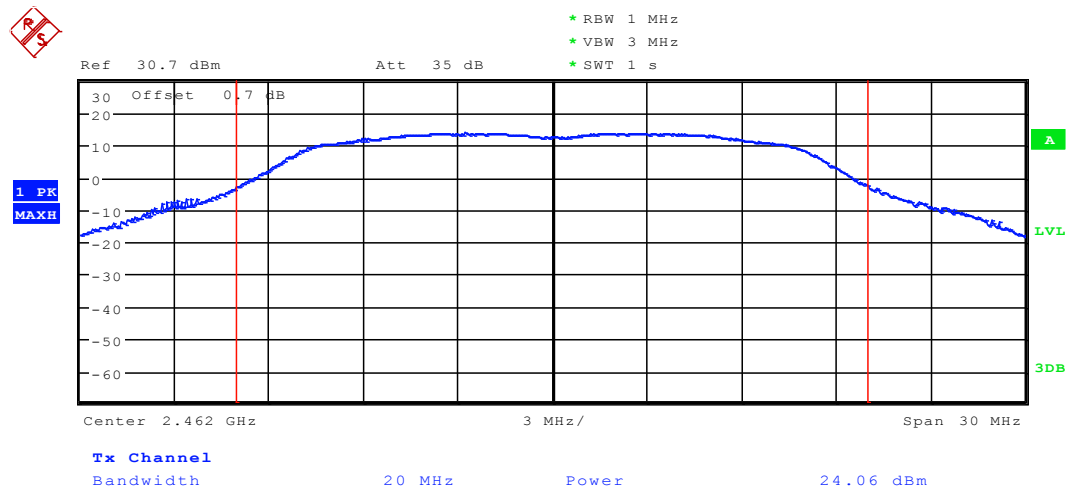
Date: 4.FEB.2018 18:42:05

2.14 11G_H_2452@Ant 2



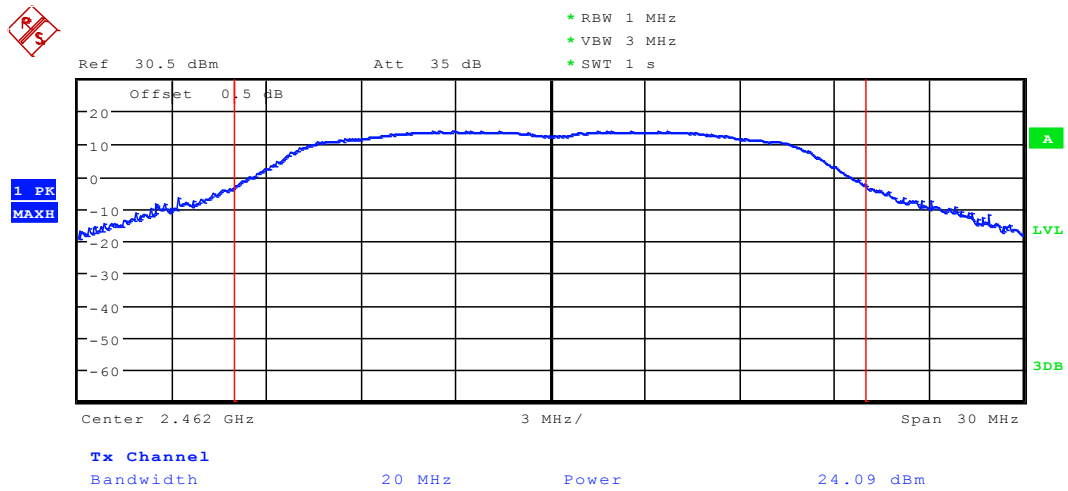
Date: 4.FEB.2018 18:47:38

2.15 11G_H_2462@Ant 1



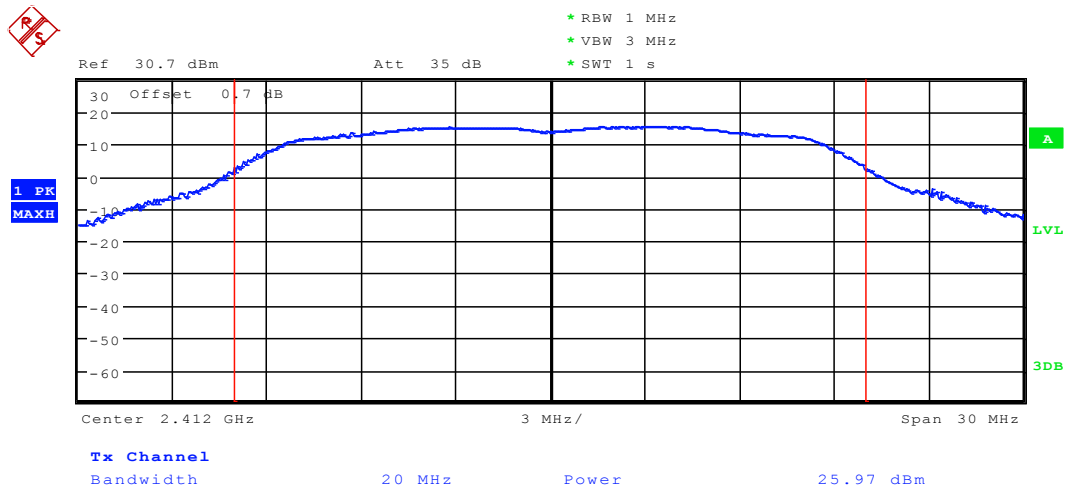
Date: 25.JAN.2018 10:53:42

2.16 11G_H_2462@Ant 2



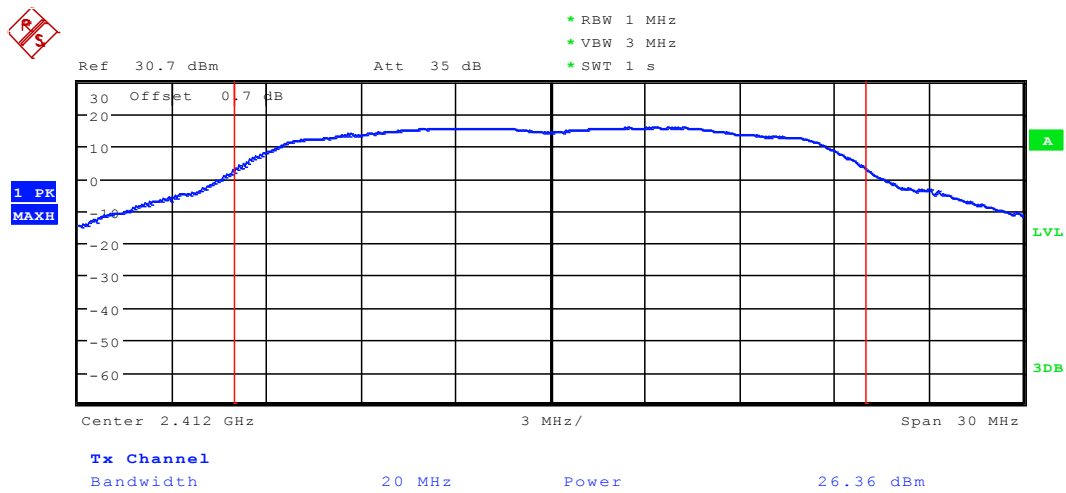
Date: 25.JAN.2018 12:02:03

2.17 11N20_L@Ant 1



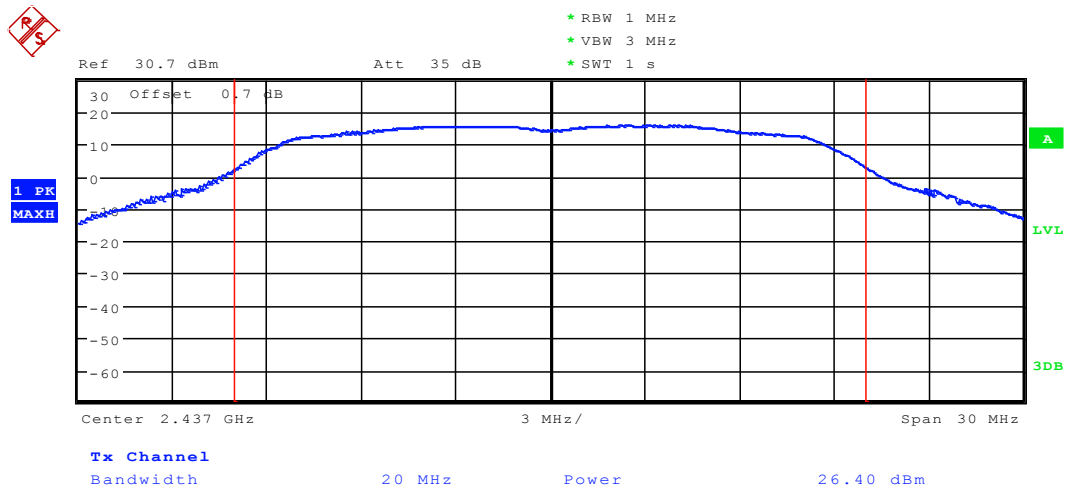
Date: 25.JAN.2018 10:55:03

2.18 11N20_L@Ant 2



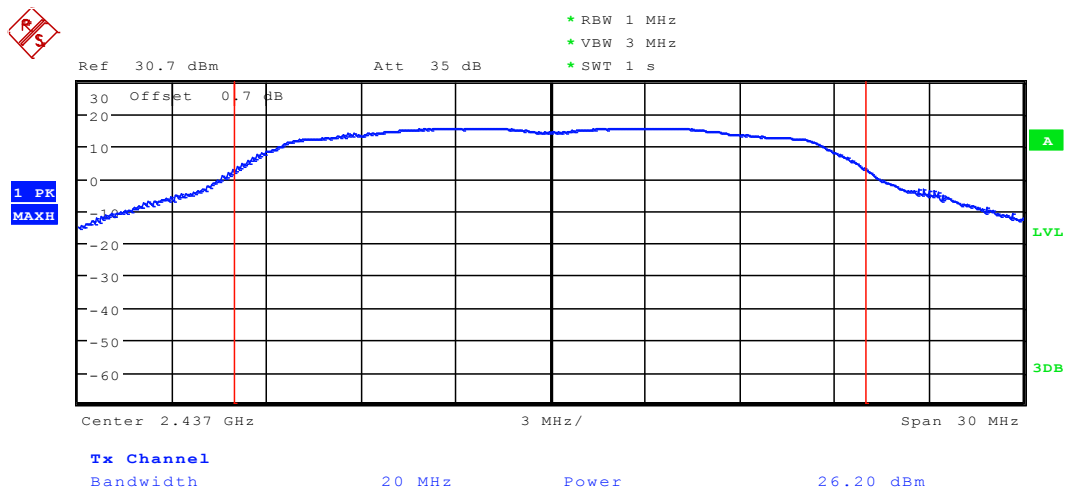
Date: 25.JAN.2018 13:39:43

2.19 11N20_M@Ant 1



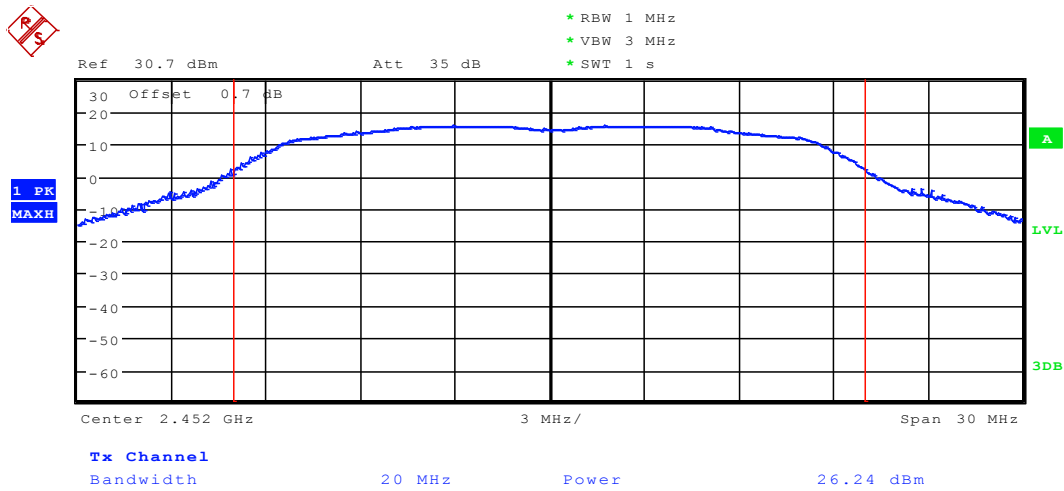
Date: 25.JAN.2018 10:56:03

2.20 11N20_M@Ant 2



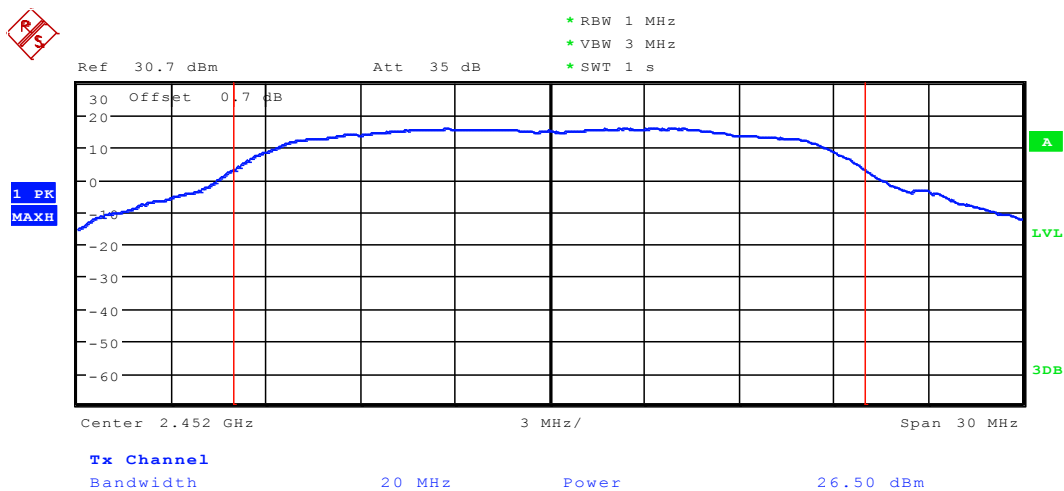
Date: 25.JAN.2018 13:41:32

2.21 11N20_H_2452@Ant 1



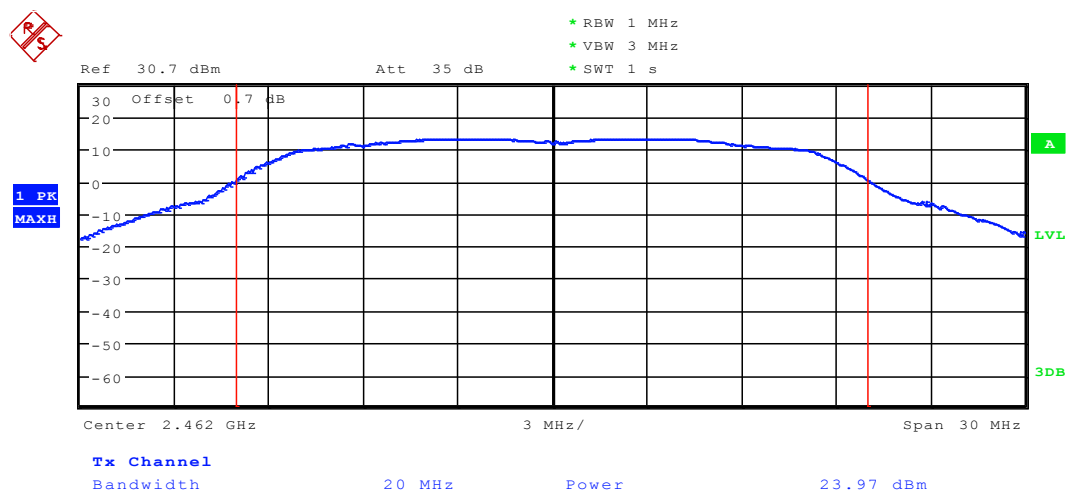
Date: 4.FEB.2018 18:42:44

2.22 11N20_H_2452@Ant 2



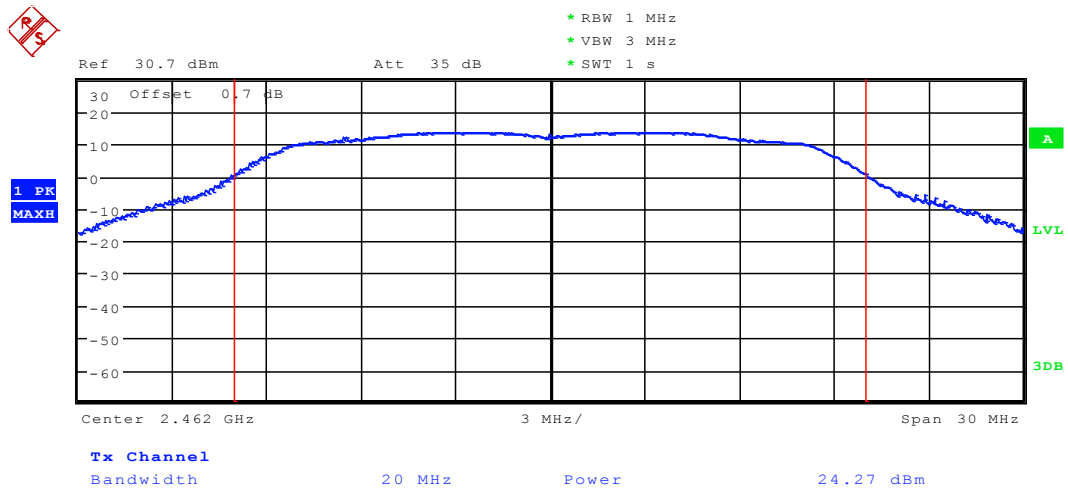
Date: 4.FEB.2018 18:51:12

2.23 11N20_H_2462@Ant 1



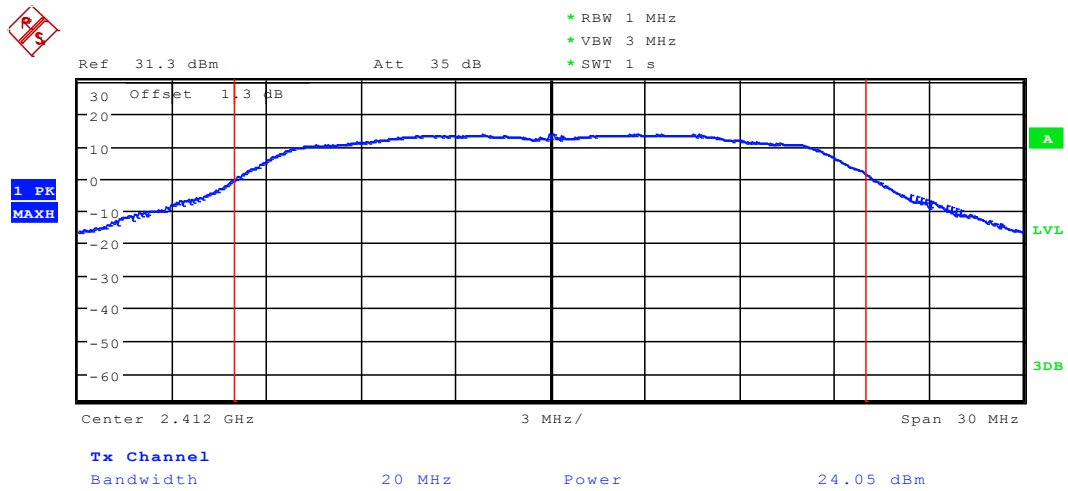
Date: 25.JAN.2018 10:58:26

2.24 11N20_H_2462@Ant 2



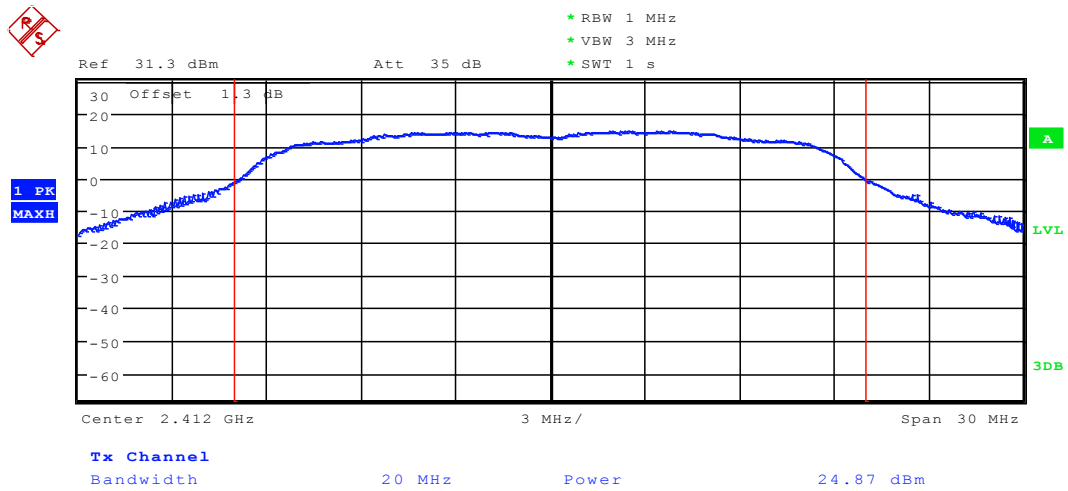
Date: 25.JAN.2018 13:42:43

2.25 11N20m_L@Ant 1



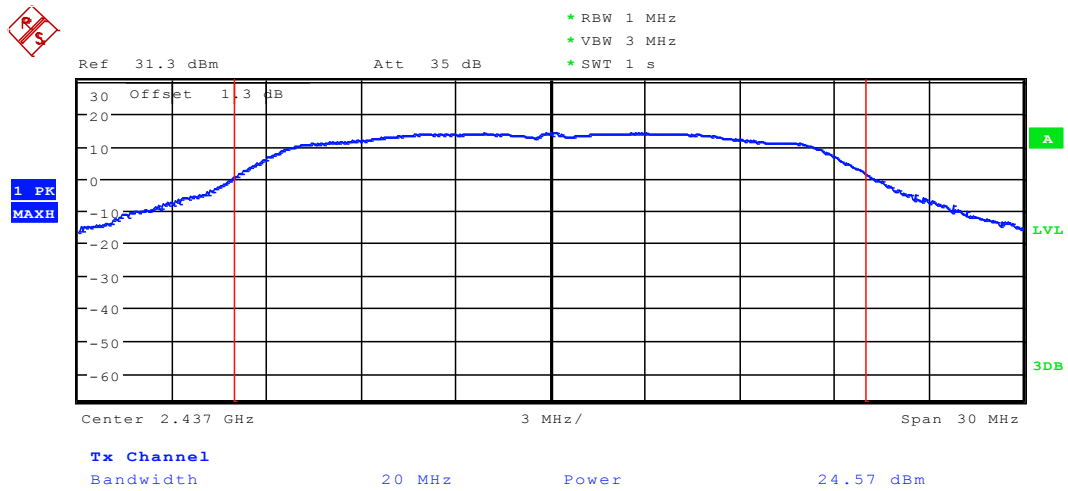
Date: 25.JAN.2018 11:15:34

2.26 11N20m_L@Ant 2



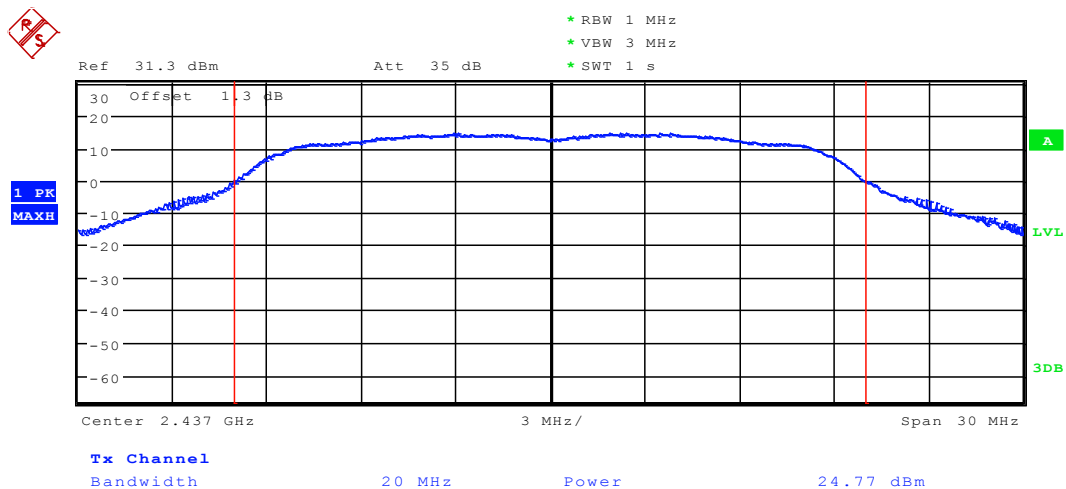
Date: 25.JAN.2018 13:50:40

2.27 11N20m_M@Ant 1



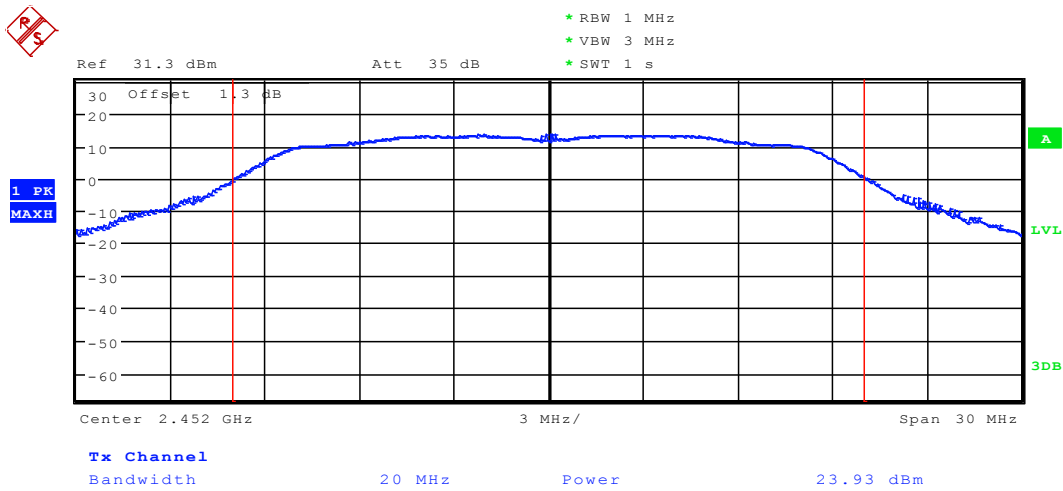
Date: 25.JAN.2018 11:16:42

2.28 11N20m_M@Ant 2



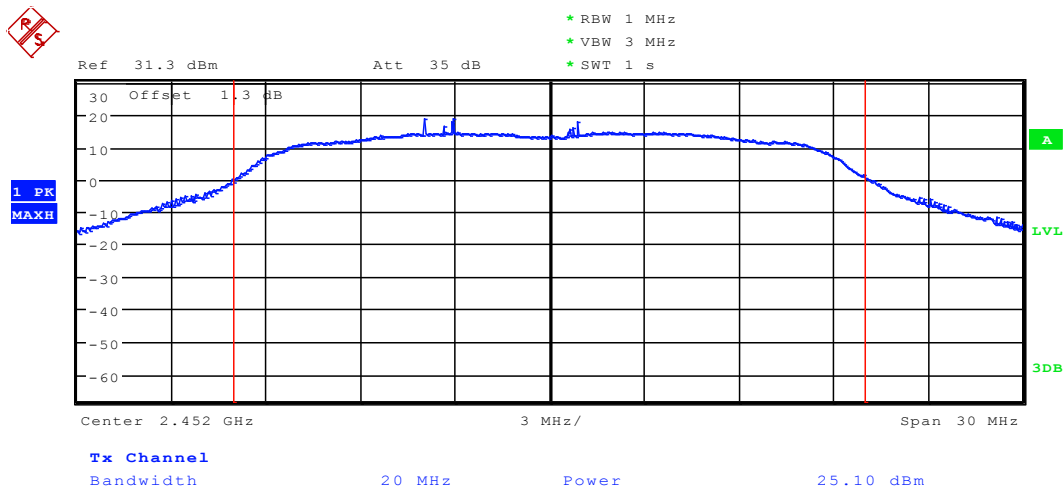
Date: 25.JAN.2018 13:51:40

2.29 11N20m_H_2452@Ant 1



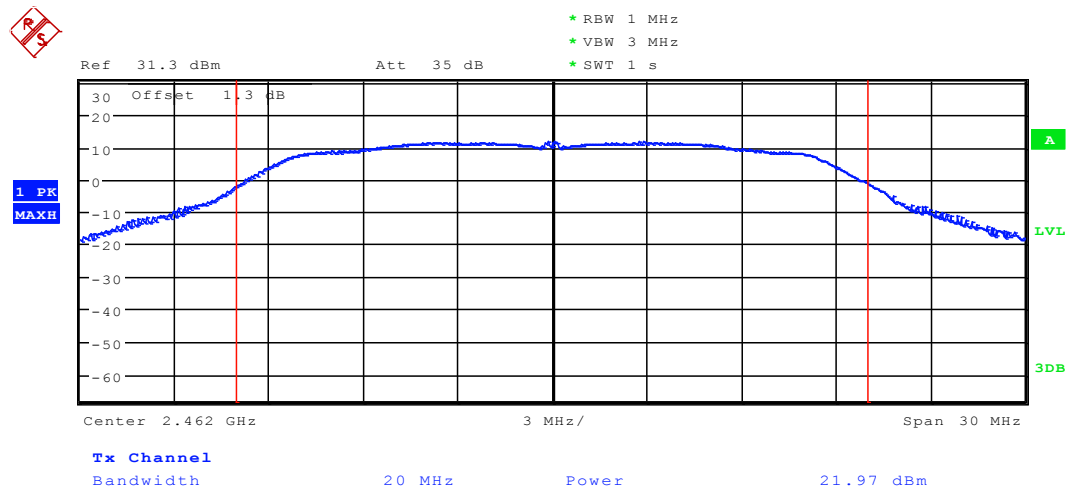
Date: 4.FEB.2018 18:44:30

2.30 11N20m_H_2452@Ant 2



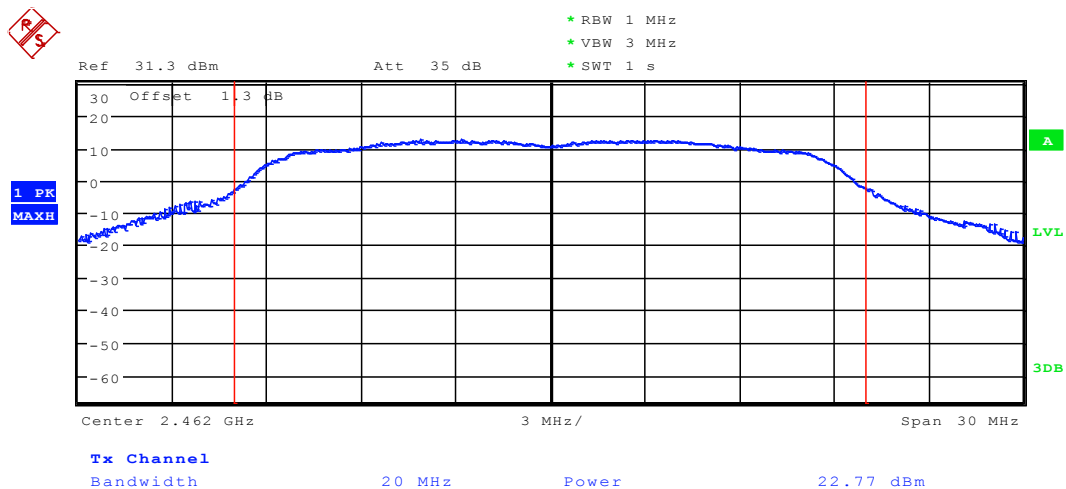
Date: 4.FEB.2018 18:46:02

2.31 11N20m_H_2462@Ant 1



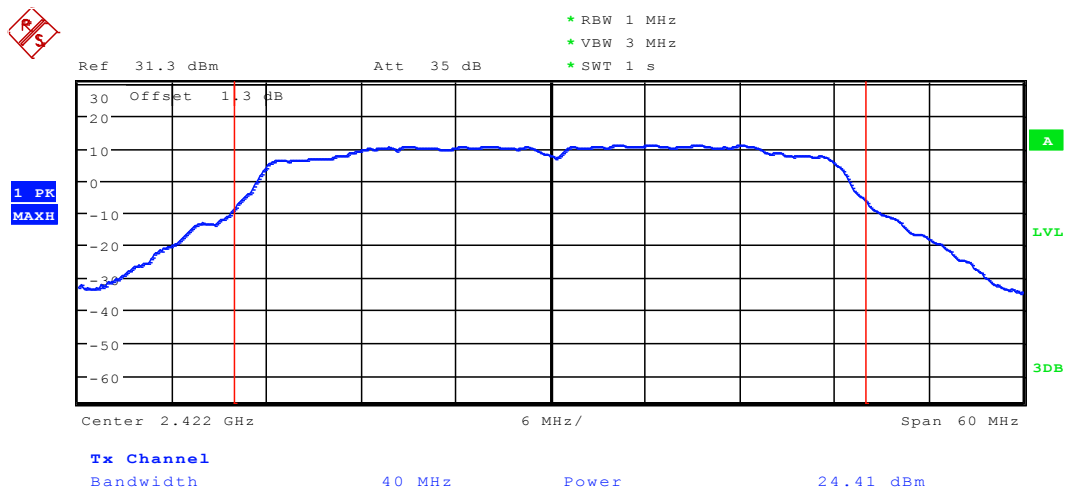
Date: 25.JAN.2018 11:18:19

2.32 11N20m_H_2462@Ant 2



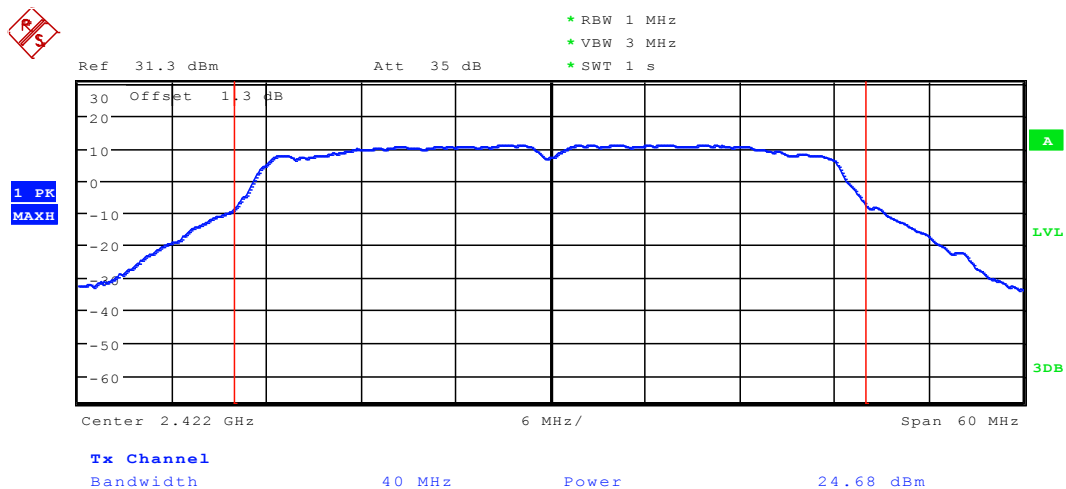
Date: 25.JAN.2018 13:53:08

2.33 11N40_L@Ant 1



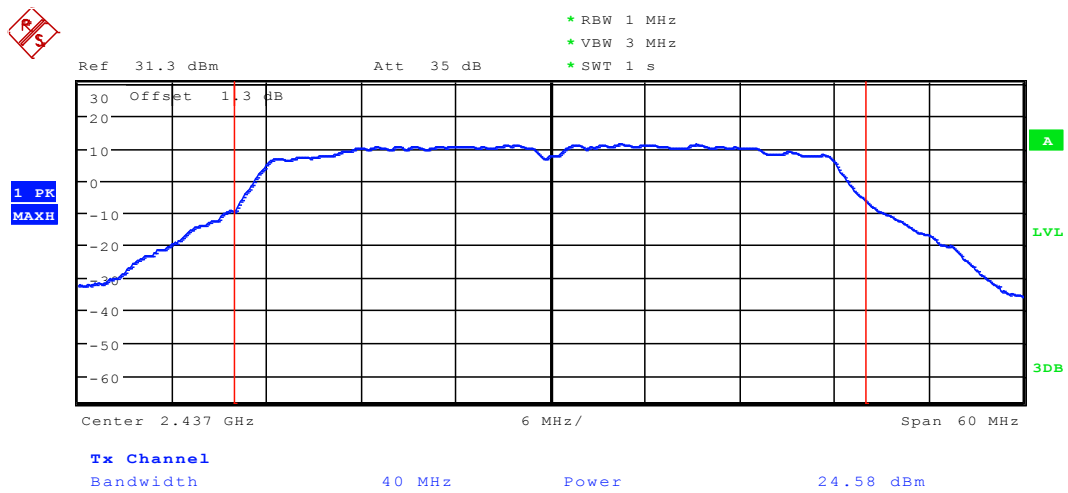
Date: 25.JAN.2018 11:06:25

2.34 11N40_L@Ant 2



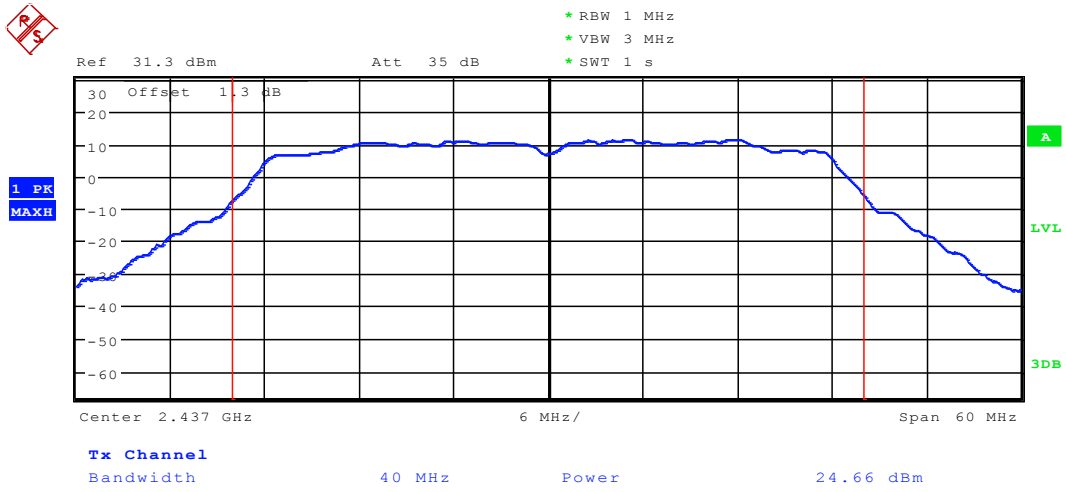
Date: 25.JAN.2018 13:45:14

2.35 11N40_M@Ant 1



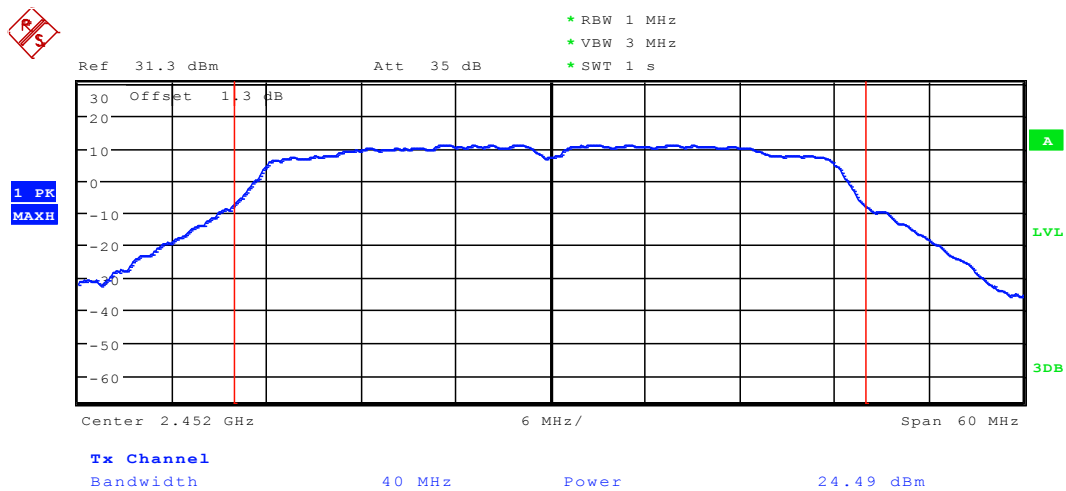
Date: 25.JAN.2018 11:07:13

2.36 11N40_M@Ant 2



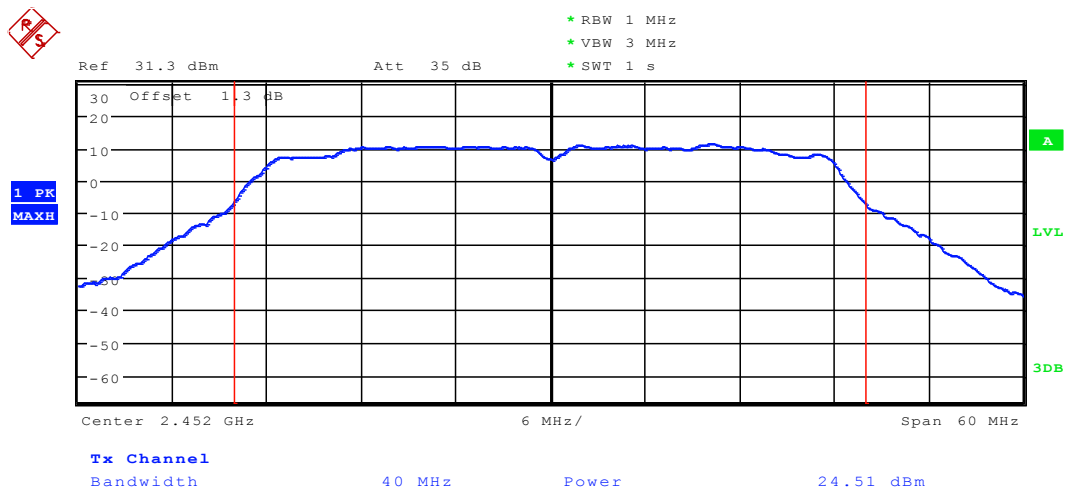
Date: 25.JAN.2018 13:46:06

2.37 11N40_H@Ant 1



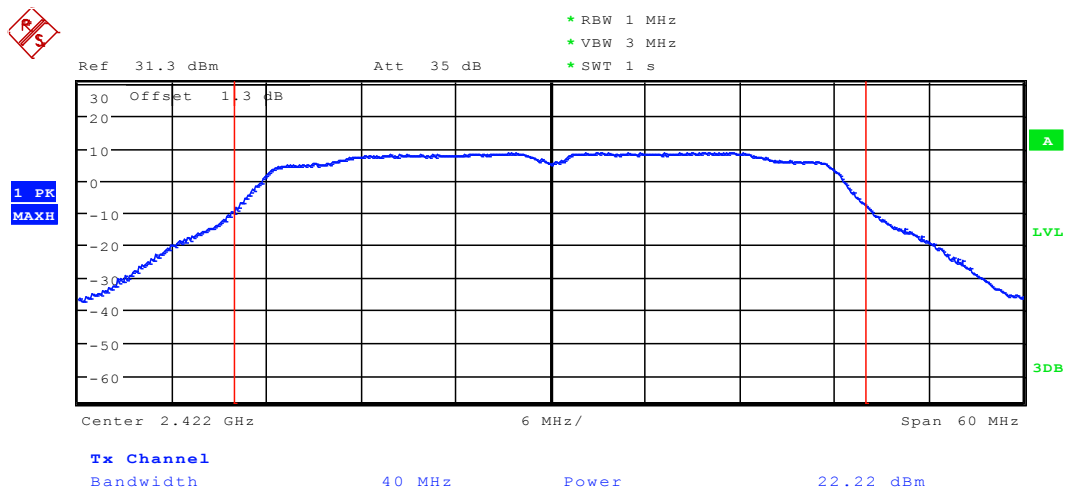
Date: 25.JAN.2018 11:08:22

2.38 11N40_H@Ant 2



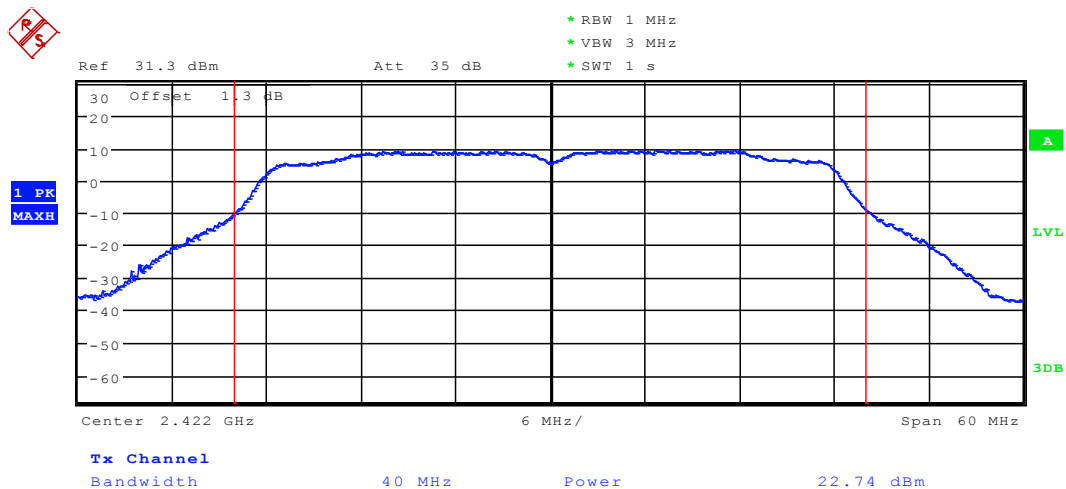
Date: 25.JAN.2018 13:46:47

2.39 11N40m_L@Ant 1



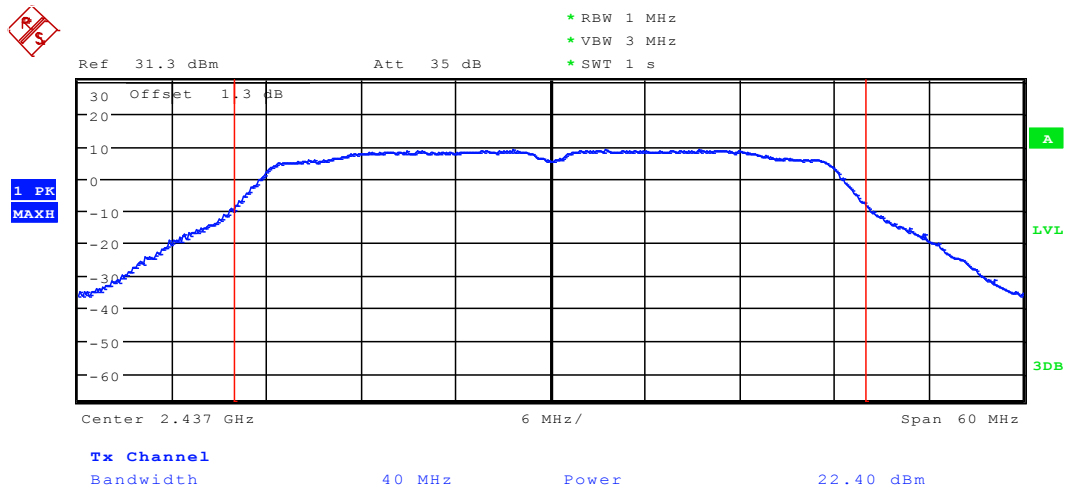
Date: 25.JAN.2018 11:22:46

2.40 11N40m_L@Ant 2



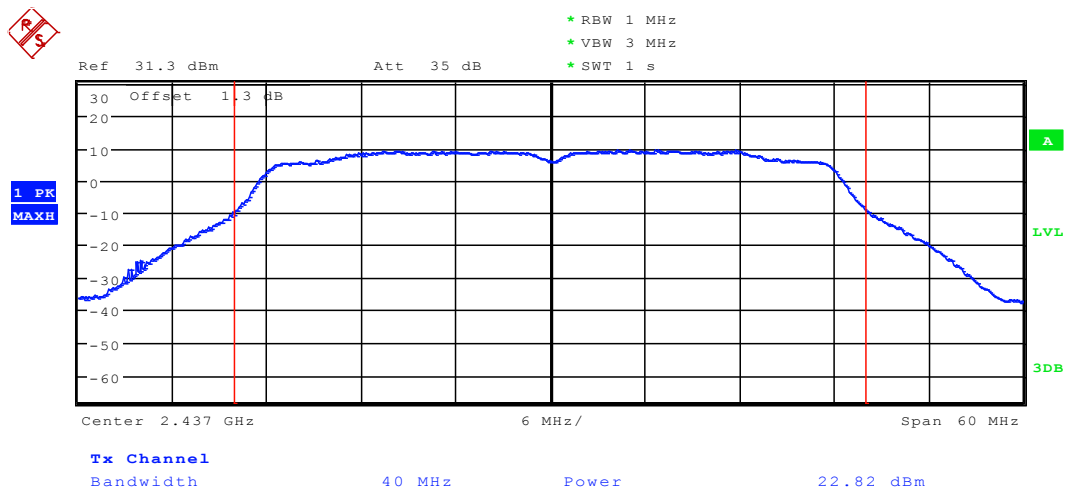
Date: 25.JAN.2018 13:58:44

2.41 11N40m_M@Ant 1



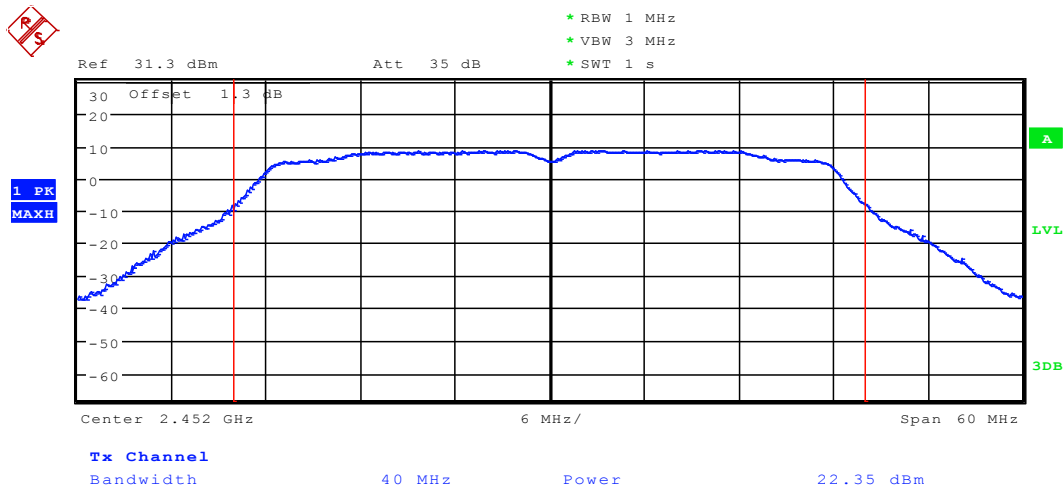
Date: 25.JAN.2018 11:23:27

2.42 11N40m_M@Ant 2



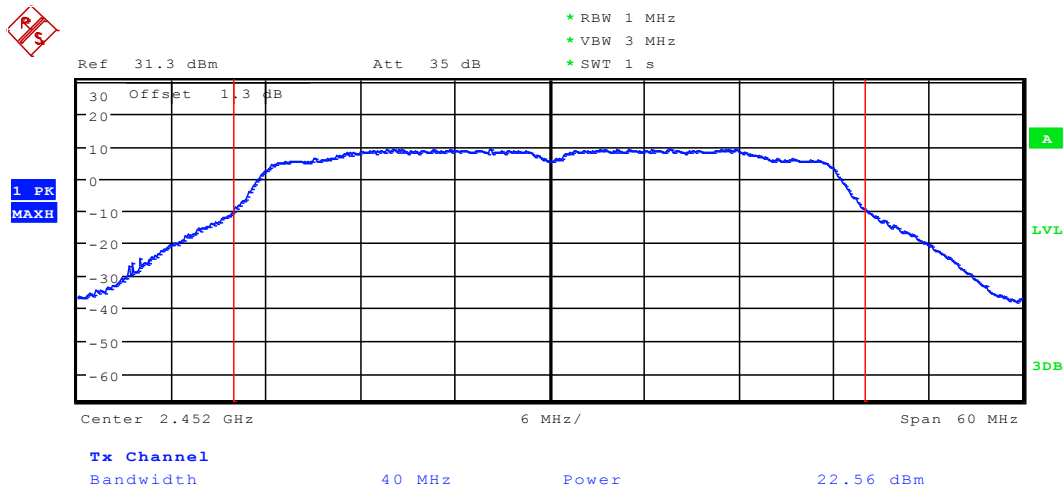
Date: 25.JAN.2018 13:59:38

2.43 11N40m_H@Ant 1



Date: 25.JAN.2018 11:24:09

2.44 11N40m_H@Ant 2



Date: 25.JAN.2018 14:00:24

Appendix F: Maximum Power Spectral Density Level

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PSD[dBm/10 kHz]	Verdict
11B	L	2412	Ant 1	98	-10.58	pass
11B	L	2412	Ant 2	99	-9.91	pass
11B	M	2437	Ant 1	98	-9.90	pass
11B	M	2437	Ant 2	99	-10.33	pass
11B	H	2452	Ant 1	98	-10.42	pass
11B	H	2452	Ant 2	99	-9.96	pass
11B	H	2462	Ant 1	98	-12.45	pass
11B	H	2462	Ant 2	99	-12.14	pass
11G	L	2412	Ant 1	95	-11.04	pass
11G	L	2412	Ant 2	95	-10.87	pass
11G	M	2437	Ant 1	95	-11.03	pass
11G	M	2437	Ant 2	95	-11.25	pass
11G	H	2452	Ant 1	95	-11.28	pass
11G	H	2452	Ant 2	95	-10.99	pass

Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PSD[dBm/10 kHz]	Verdict
11G	H	2462	Ant 1	95	-13.40	pass
11G	H	2462	Ant 2	95	-12.99	pass
11N20	L	2412	Ant 1	95	-11.41	pass
11N20	L	2412	Ant 2	96	-11.23	pass
11N20	M	2437	Ant 1	95	-11.19	pass
11N20	M	2437	Ant 2	96	-11.60	pass
11N20	H	2452	Ant 1	95	-11.75	pass
11N20	H	2452	Ant 2	96	-11.09	pass
11N20	H	2462	Ant 1	95	-13.64	pass
11N20	H	2462	Ant 2	96	-13.28	pass
11N20m	L	2412	Ant 1	84	-13.94	pass
11N20m	L	2412	Ant 2	84	-13.38	pass
11N20m	L	2412	SUM	-	-10.64	pass
11N20m	M	2437	Ant 1	84	-13.53	pass
11N20m	M	2437	Ant 2	84	-13.49	pass
11N20m	M	2437	SUM	-	-10.5	pass
11N20m	H	2452	Ant 1	84	-14.33	pass



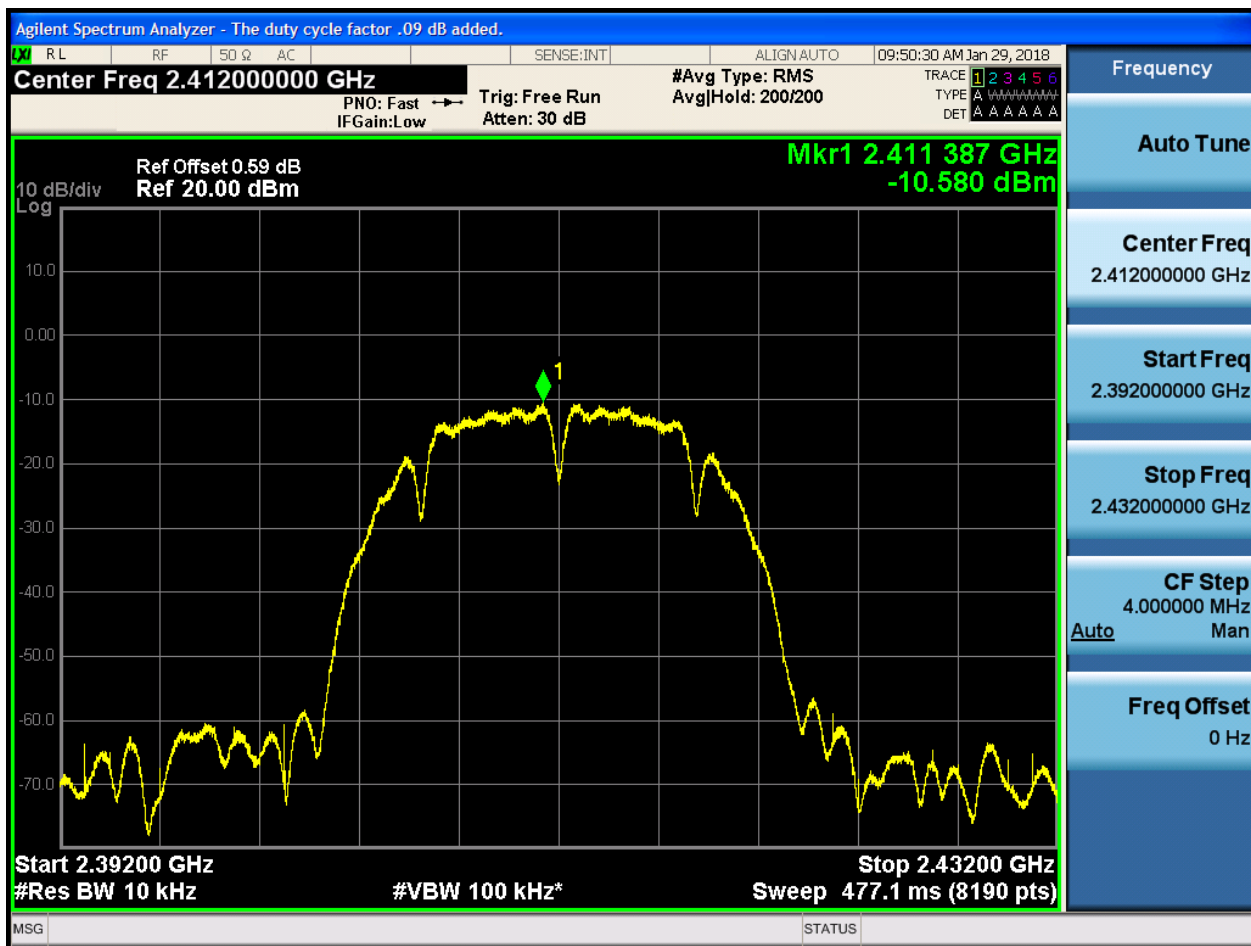
Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PSD[dBm/10 kHz]	Verdict
11N20m	H	2452	Ant 2	84	-13.12	pass
11N20m	H	2452	SUM	-	-10.67	pass
11N20m	H	2462	Ant 1	84	-15.39	pass
11N20m	H	2462	Ant 2	84	-15.22	pass
11N20m	H	2462	SUM	-	-12.29	pass
11N40	L	2422	Ant 1	84	-15.41	pass
11N40	L	2422	Ant 2	84	-13.98	pass
11N40	M	2437	Ant 1	84	-14.57	pass
11N40	M	2437	Ant 2	84	-14.83	pass
11N40	H	2452	Ant 1	84	-14.49	pass
11N40	H	2452	Ant 2	84	-14.64	pass
11N40m	L	2422	Ant 1	84	-18.80	pass
11N40m	L	2422	Ant 2	83	-17.50	pass
11N40m	L	2422	SUM	-	-15.09	pass
11N40m	M	2437	Ant 1	84	-18.33	pass
11N40m	M	2437	Ant 2	83	-17.24	pass
11N40m	M	2437	SUM	-	-14.74	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PSD[dBm/10 kHz]	Verdict
11N40m	H	2452	Ant 1	84	-18.59	pass
11N40m	H	2452	Ant 2	83	-17.39	pass
11N40m	H	2452	SUM	-	-14.94	pass

Part II - Test Plots

2.1 11B_L@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .04 dB added.

Center Freq 2.412000000 GHz

Ref Offset 0.54 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 2.412 808 GHz
-9.908 dBm

Start 2.39200 GHz
#Res BW 10 kHz

Stop 2.43200 GHz
Sweep 477.1 ms (8190 pts)

#VBW 100 kHz*

Trig: Free Run
Atten: 30 dB

PNO: Fast
IFGain: Low

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

ALIGN AUTO

01:18:21 PM Jan 29, 2018

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

Frequency

Auto Tune

Center Freq
2.412000000 GHz

Start Freq
2.392000000 GHz

Stop Freq
2.432000000 GHz

CF Step
4.000000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - The duty cycle factor .09 dB added.

Center Freq 2.437000000 GHz

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

Ref Offset 0.59 dB
Ref 20.00 dBm

Mkr1 2.436 387 GHz
-9.896 dBm

Start 2.41700 GHz
#Res BW 10 kHz

Stop 2.45700 GHz
Sweep 477.1 ms (8190 pts)

#VBW 100 kHz*

10 dB/div
Log

1

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

MSG STATUS

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display area shows a spectrum plot with a yellow trace. The x-axis represents frequency in GHz, ranging from 2.41700 to 2.45700. The y-axis represents power in dBm, ranging from -70.0 to 10.0. A prominent peak is visible at 2.436387 GHz, marked with a green diamond and labeled 'Mkr1'. The peak power is -9.896 dBm. The plot is overlaid on a grid. Various settings are displayed around the plot, including 'Center Freq 2.437000000 GHz', 'Ref Offset 0.59 dB', 'Ref 20.00 dBm', 'Start 2.41700 GHz', 'Stop 2.45700 GHz', 'Sweep 477.1 ms (8190 pts)', and '#VBW 100 kHz*'. The top of the screen shows the Agilent logo and the text 'Agilent Spectrum Analyzer - The duty cycle factor .09 dB added.'.



Agilent Spectrum Analyzer - The duty cycle factor .04 dB added.

Center Freq 2.437000000 GHz

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

Ref Offset 0.54 dB
Ref 20.00 dBm

Mkr1 2.437 808 GHz
-10.326 dBm

Start 2.41700 GHz
#Res BW 10 kHz

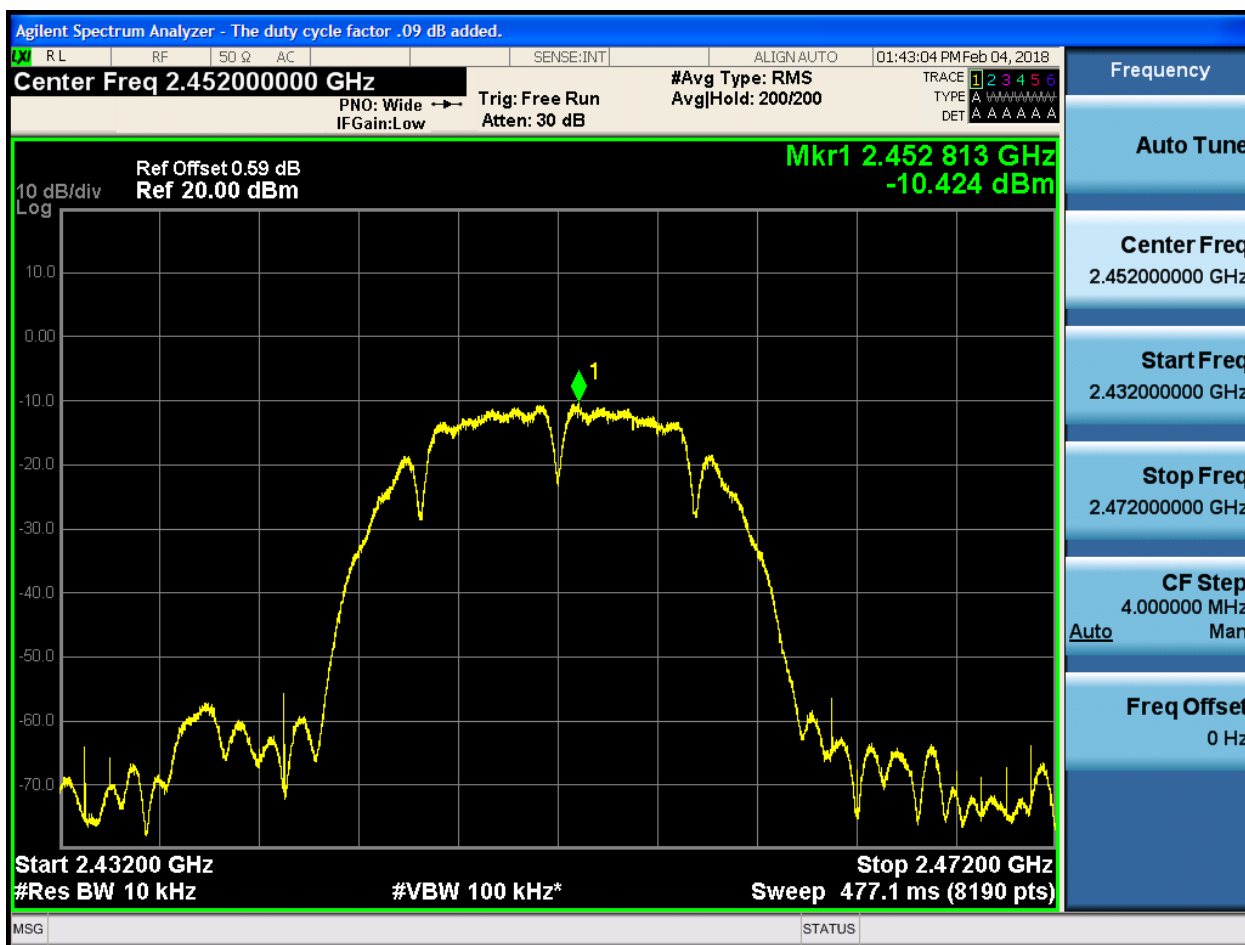
Stop 2.45700 GHz
Sweep 477.1 ms (8190 pts)

#VBW 100 kHz*

The image shows a spectrum analyzer screen with a yellow trace on a black background. The trace is noisy and has a broad peak. A green diamond marker labeled '1' is positioned on the peak at 2.437808 GHz. The y-axis is labeled 'Log' and ranges from -70.0 to 10.0 dBm. The x-axis ranges from 2.41700 GHz to 2.45700 GHz. The screen is framed by a green border. At the top, there is a status bar with various settings like 'RL', 'RF', '50 Ω', 'AC', 'SENSE:INT', 'ALIGN AUTO', and the date '01:23:36 PM Jan 29, 2018'. On the right side, there is a vertical panel with settings for 'Frequency', 'Auto Tune', 'Center Freq', 'Start Freq', 'Stop Freq', 'CF Step', and 'Freq Offset'.

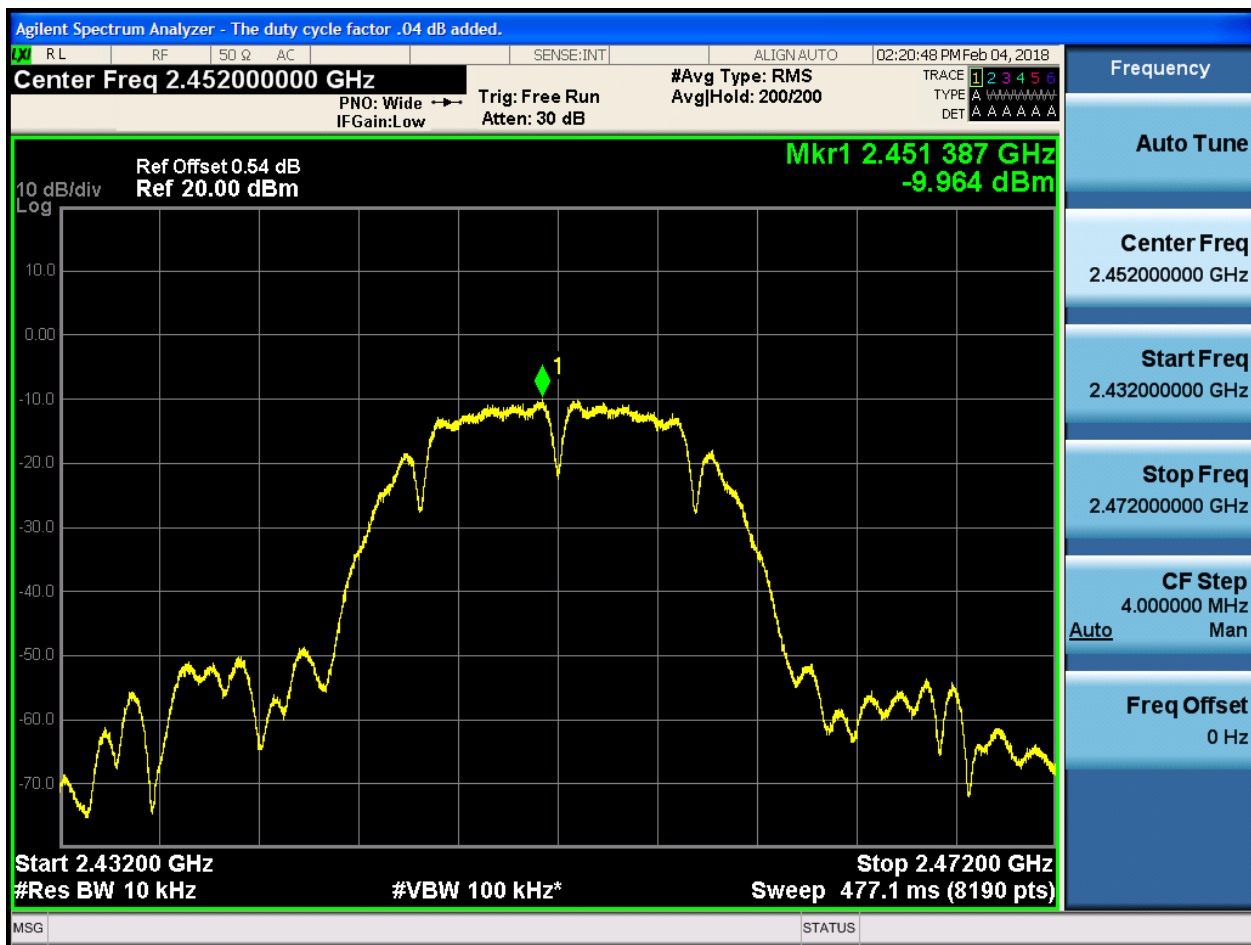


2.5 11B_H_2452@Ant 1





2.6 11B_H_2452@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .09 dB added.

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:00:49 AM Jan 29, 2018

Center Freq 2.462000000 GHz #Avg Type: RMS AvgHold: 200/200
PNO: Fast Trig: 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 A A

Ref Offset 0.59 dB
Ref 20.00 dBm

**Mkr1 2.461 392 GHz
-12.454 dBm**

10 dB/div
Log

Start 2.44200 GHz Stop 2.48200 GHz
#Res BW 10 kHz #VBW 100 kHz* Sweep 477.1 ms (8190 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.462000000 GHz

Start Freq
2.442000000 GHz

Stop Freq
2.482000000 GHz

CF Step
4.000000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - The duty cycle factor .04 dB added.

Center Freq 2.462000000 GHz

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

Ref Offset 0.54 dB
Ref 20.00 dBm

Mkr1 2.461 177 GHz
-12.136 dBm

Start 2.44200 GHz
#Res BW 10 kHz

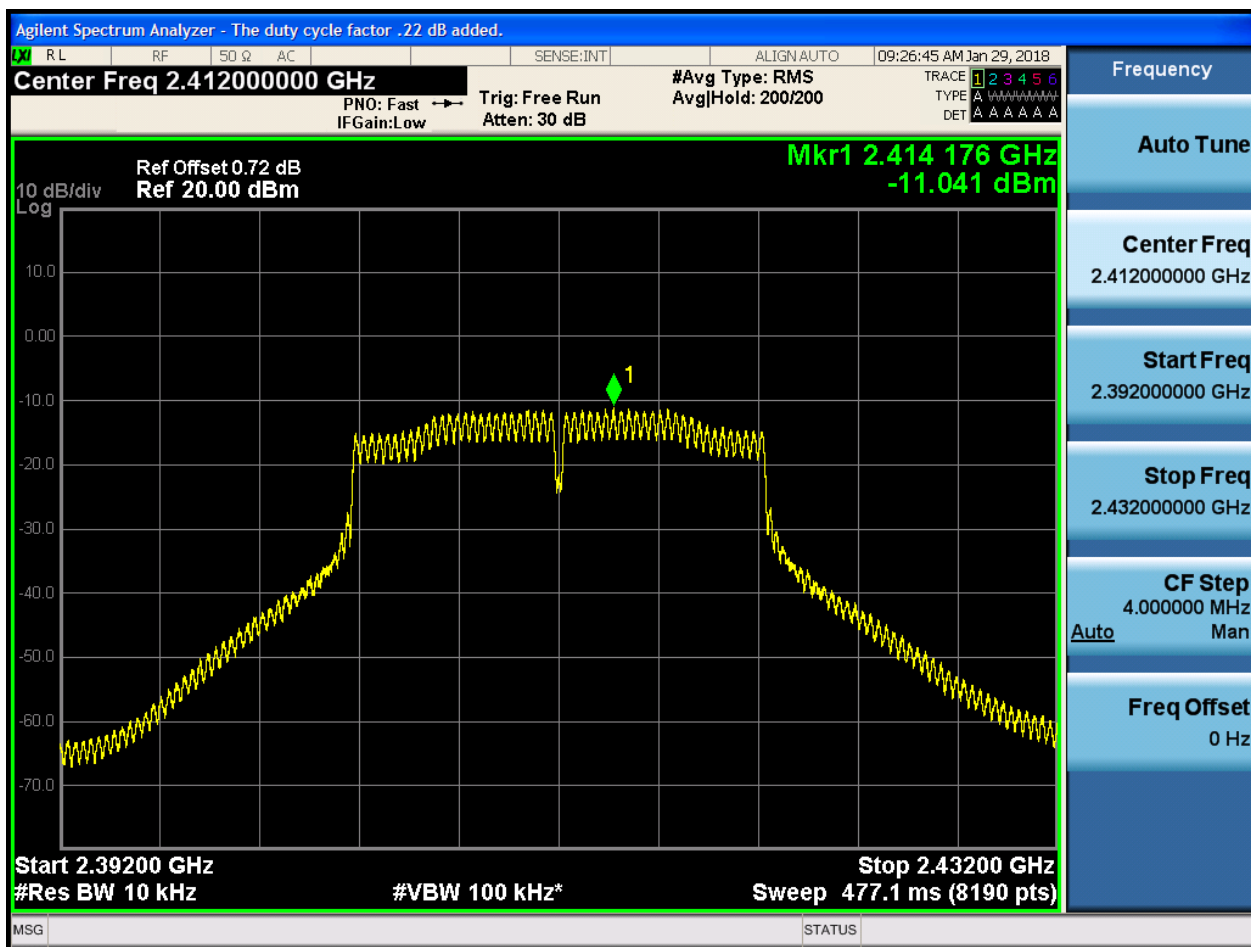
Stop 2.48200 GHz
Sweep 477.1 ms (8190 pts)

#VBW 100 kHz*

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a plot of power spectral density (PSD) in dBm versus frequency in GHz. The y-axis is labeled '10 dB/div Log' and ranges from -70.0 to 10.0 dBm. The x-axis ranges from 2.44200 GHz to 2.48200 GHz. A yellow trace shows the signal spectrum, which is a noisy signal with a broad peak. A green marker '1' is placed on the peak at 2.461177 GHz, with a label '-12.136 dBm'. The background is black with a white grid. The top of the screen shows various settings and status information, including 'Center Freq 2.462000000 GHz', '#Avg Type: RMS', 'Ref Offset 0.54 dB', 'Ref 20.00 dBm', 'Mkr1 2.461 177 GHz', 'Start 2.44200 GHz', 'Stop 2.48200 GHz', 'Sweep 477.1 ms (8190 pts)', and '#VBW 100 kHz*'. The right side of the screen shows a vertical menu with options like 'Frequency', 'Auto Tune', 'Center Freq', 'Start Freq', 'Stop Freq', 'CF Step', 'Freq Offset', and 'MSG'.

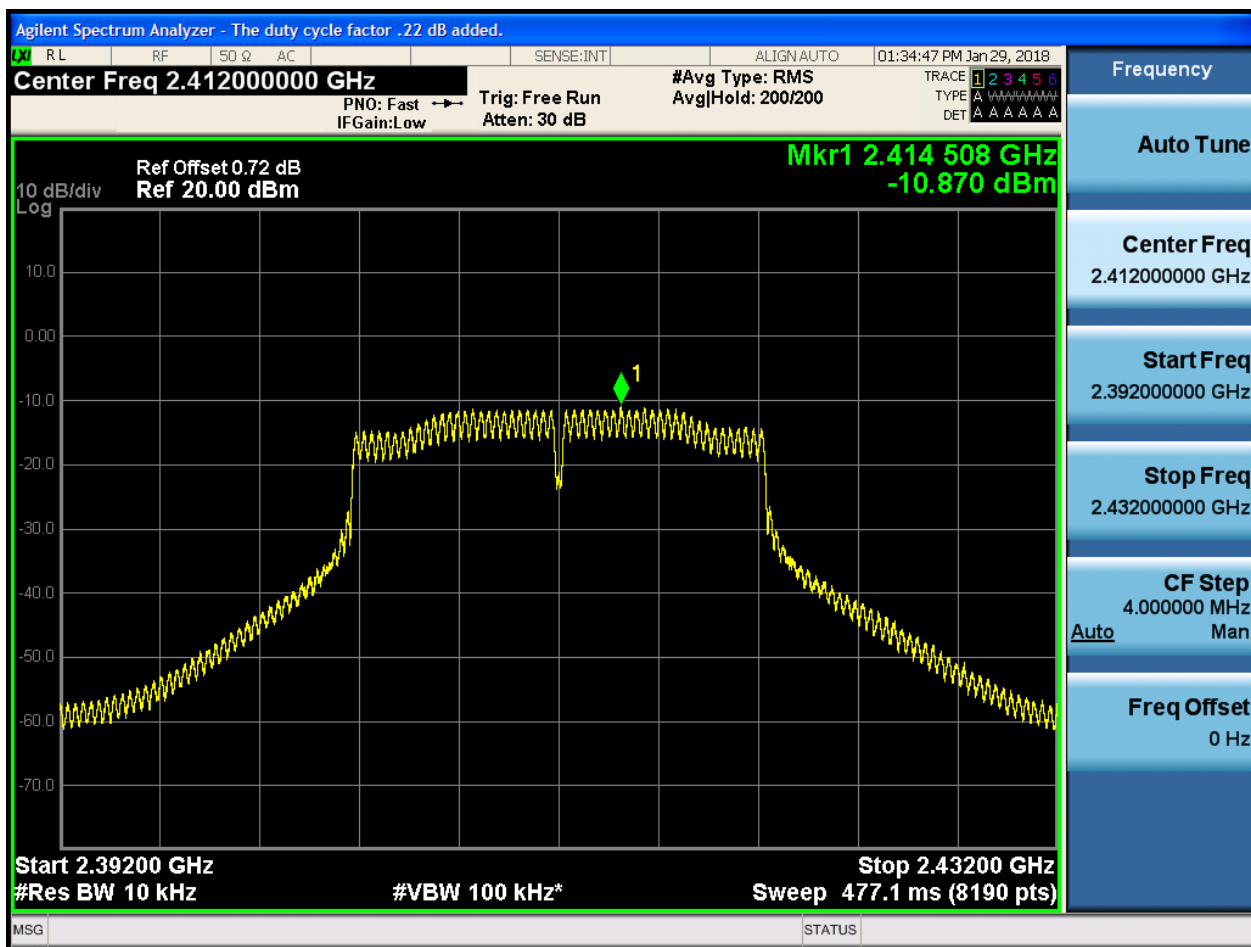


2.9 11G_L@Ant 1



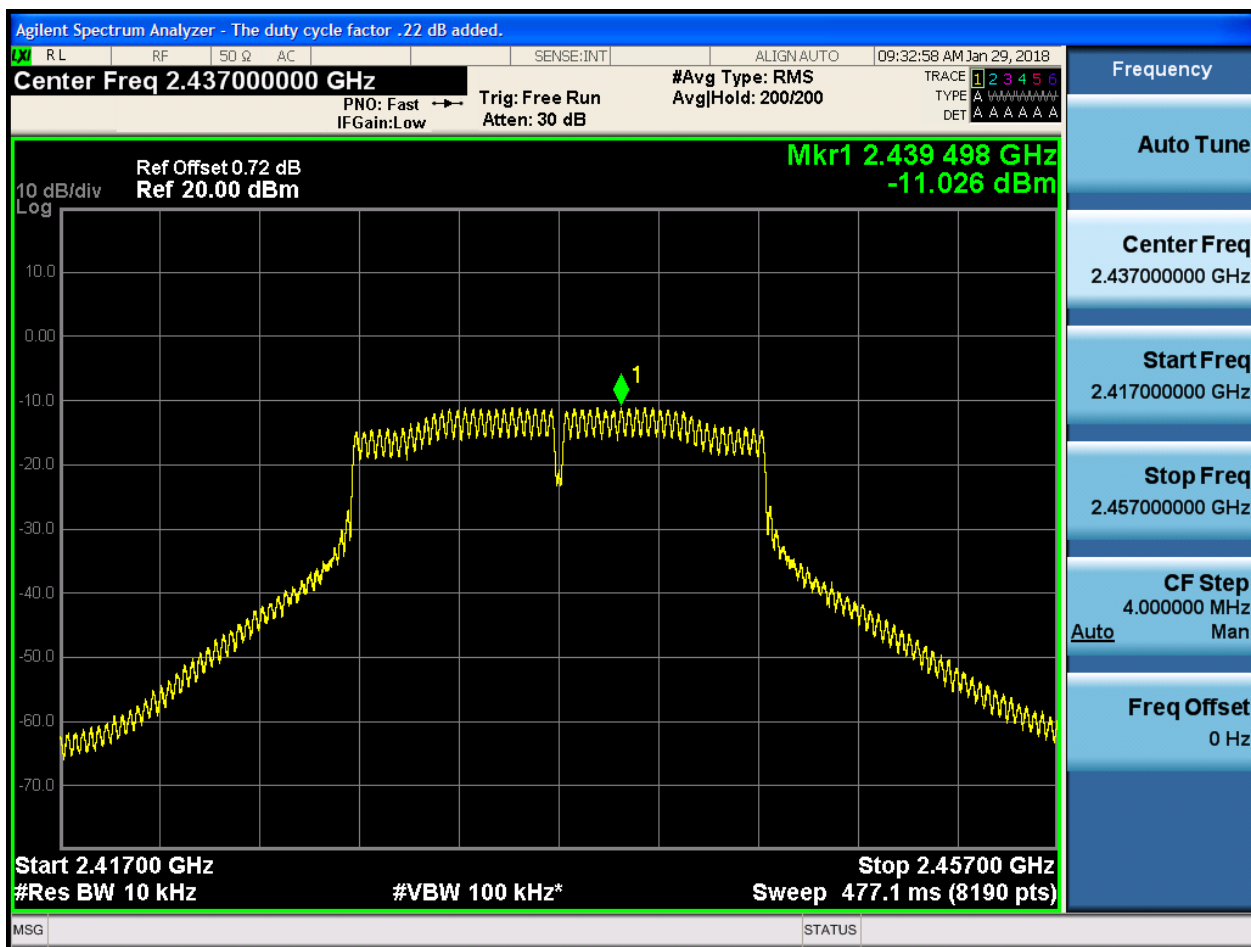


2.10 11G_L@Ant 2



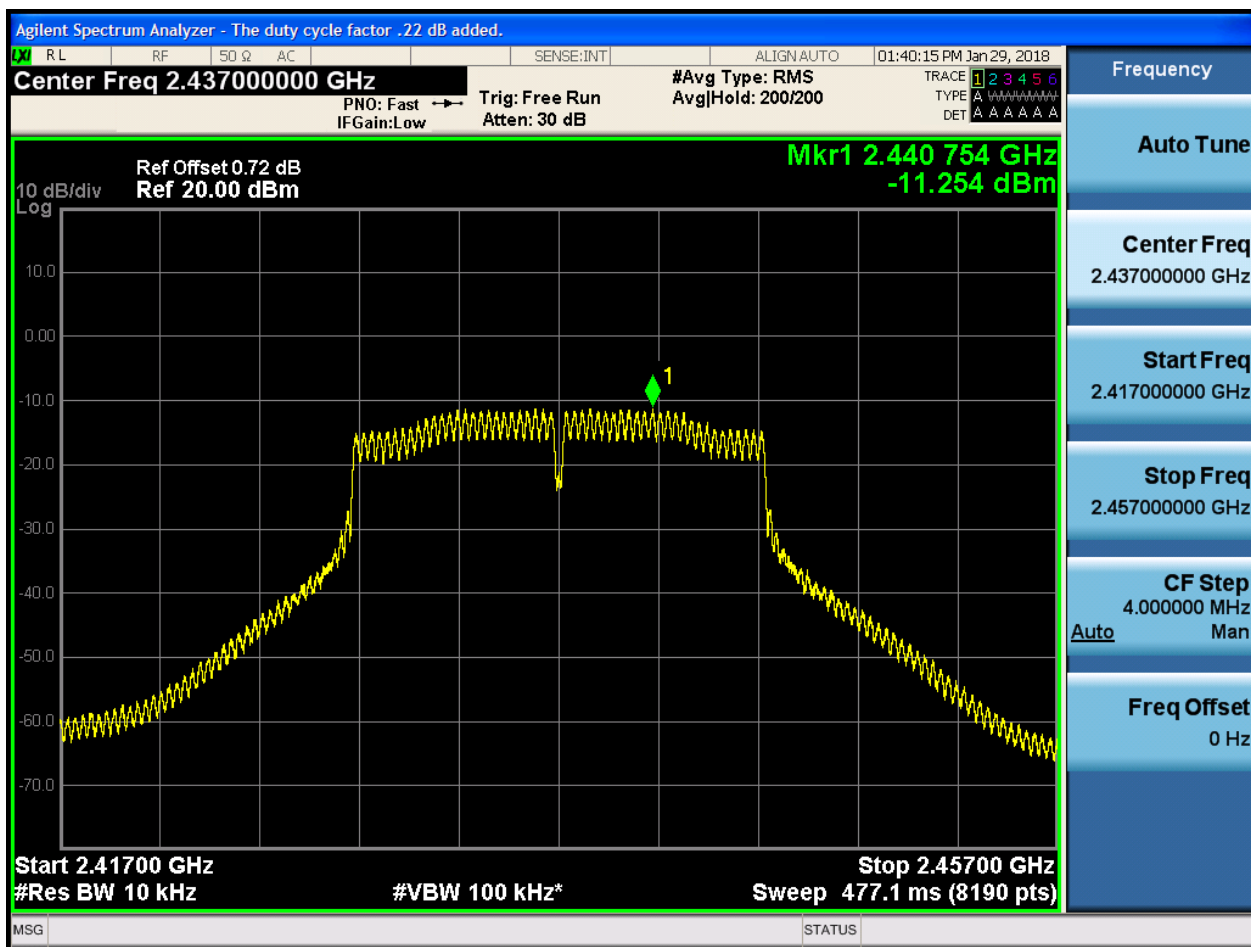


2.11 11G_M@Ant 1



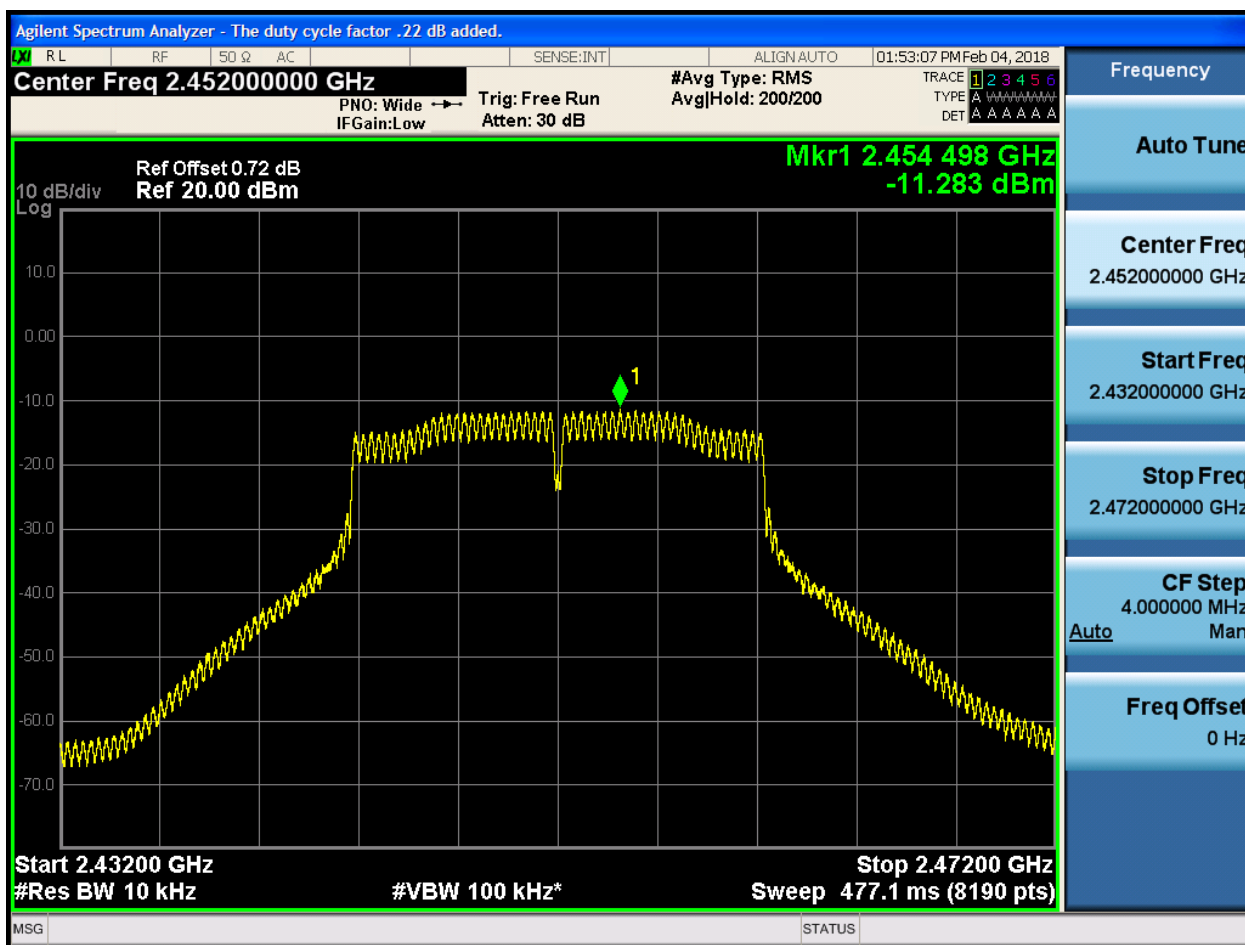


2.12 11G_M@Ant 2



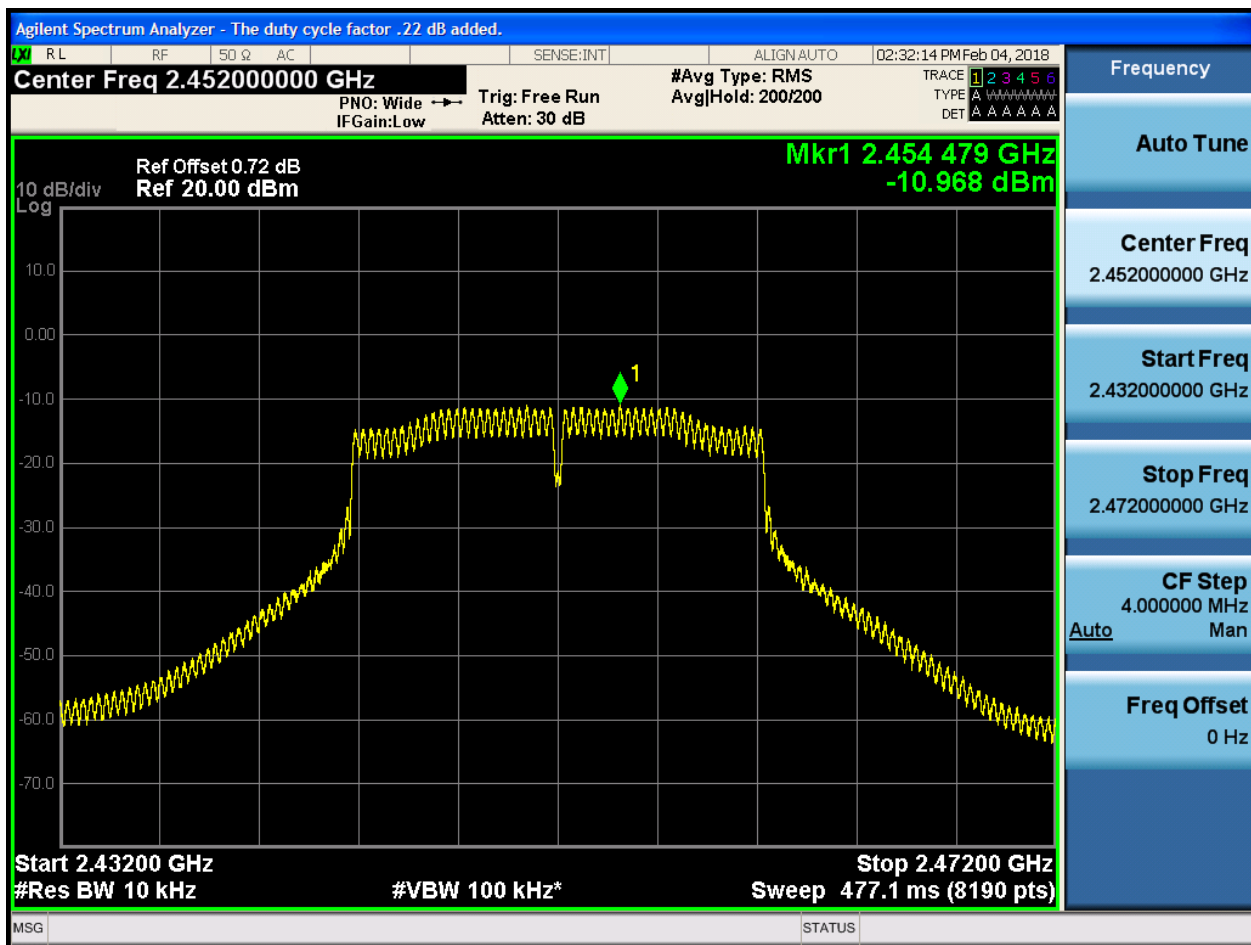


2.13 11G_H_2452@Ant 1

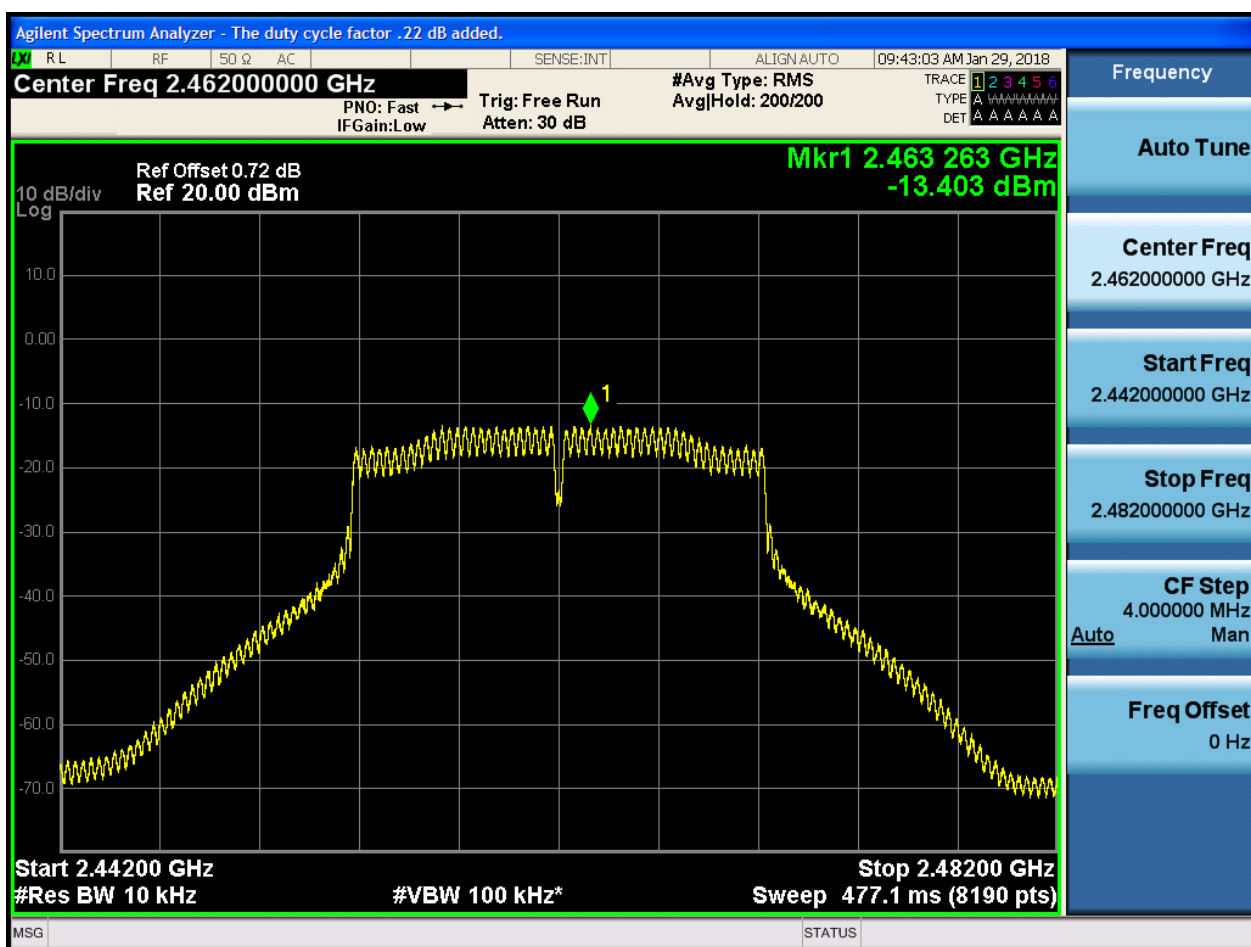




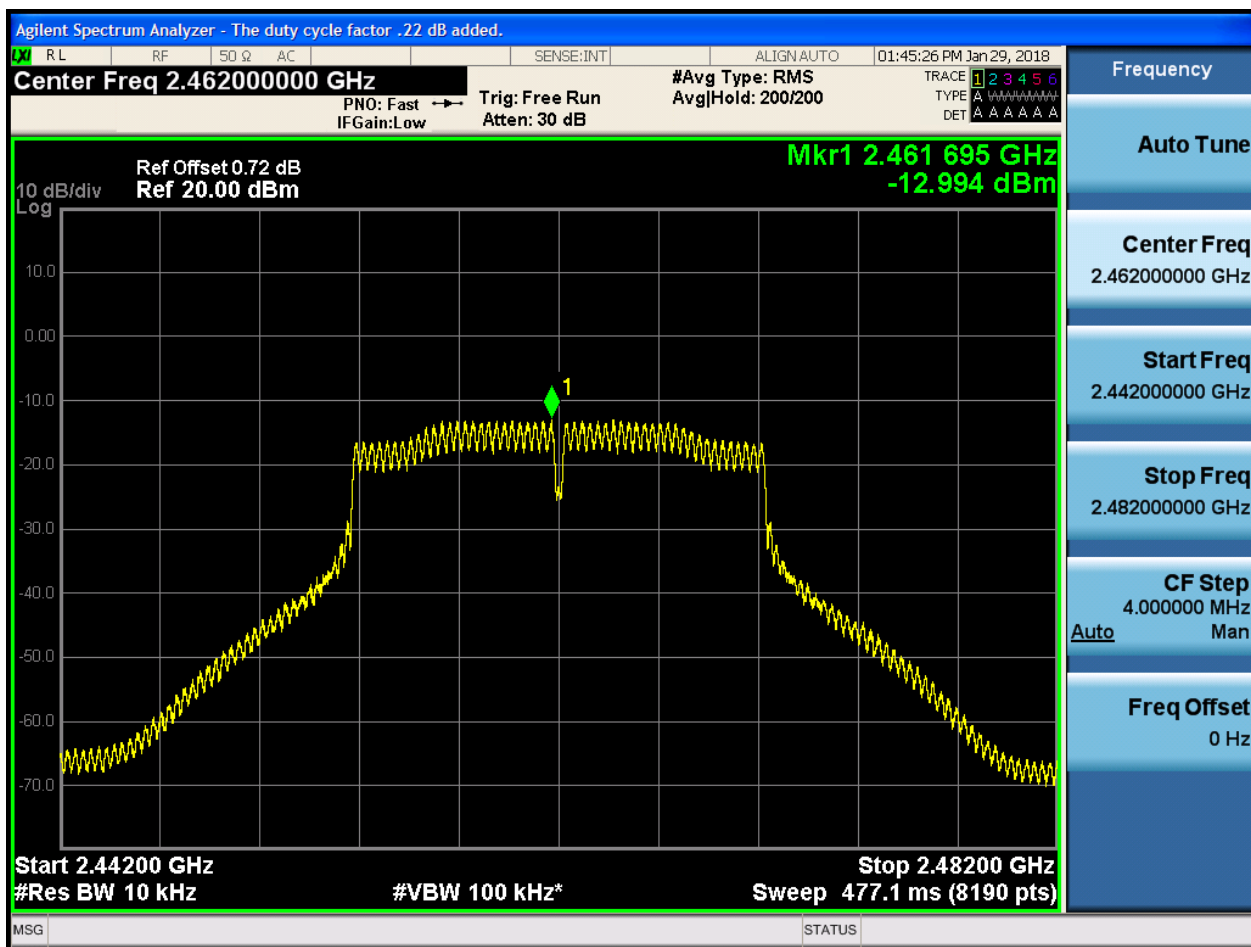
2.14 11G_H_2452@Ant 2



2.15 11G_H_2462@Ant 1

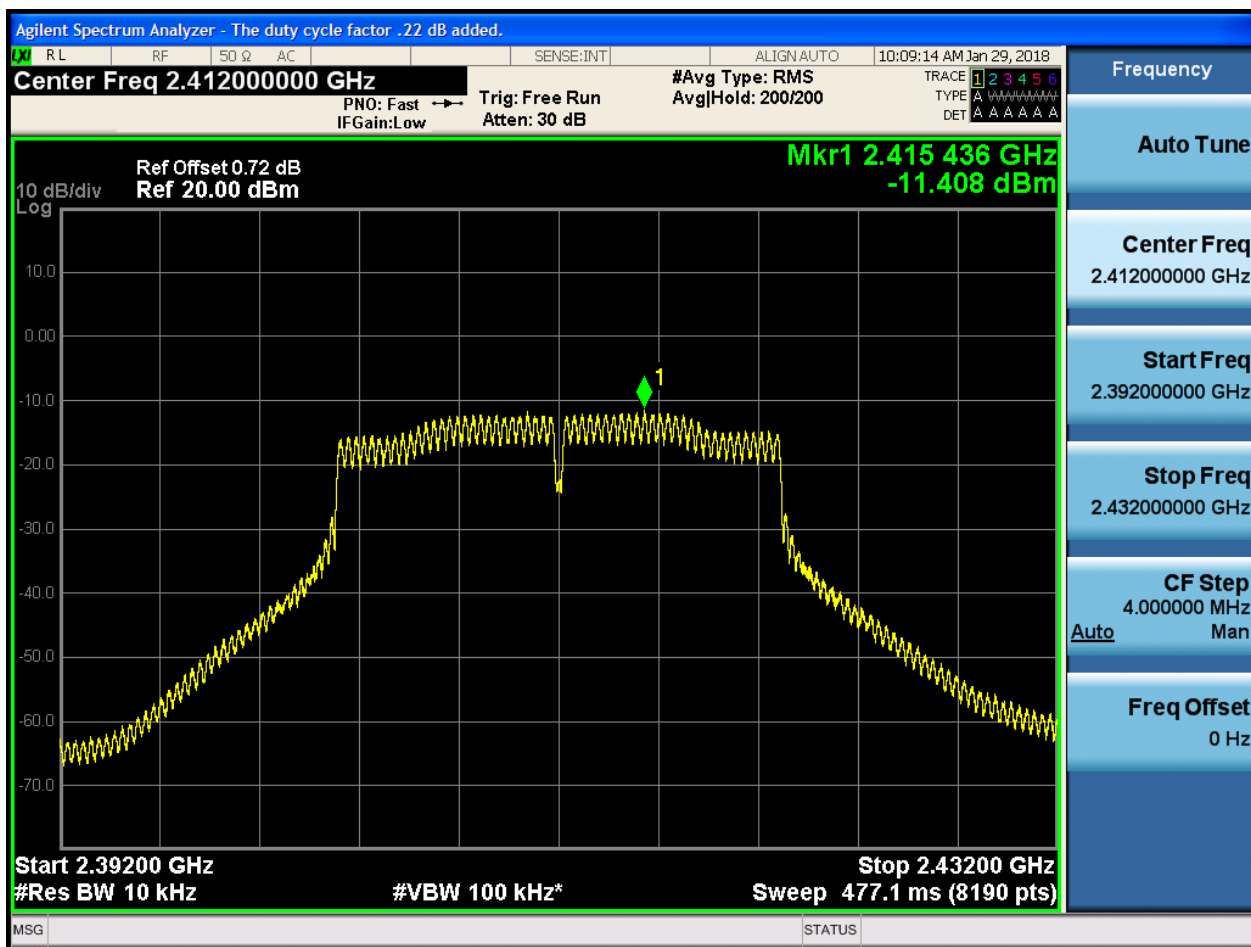


2.16 11G_H_2462@Ant 2



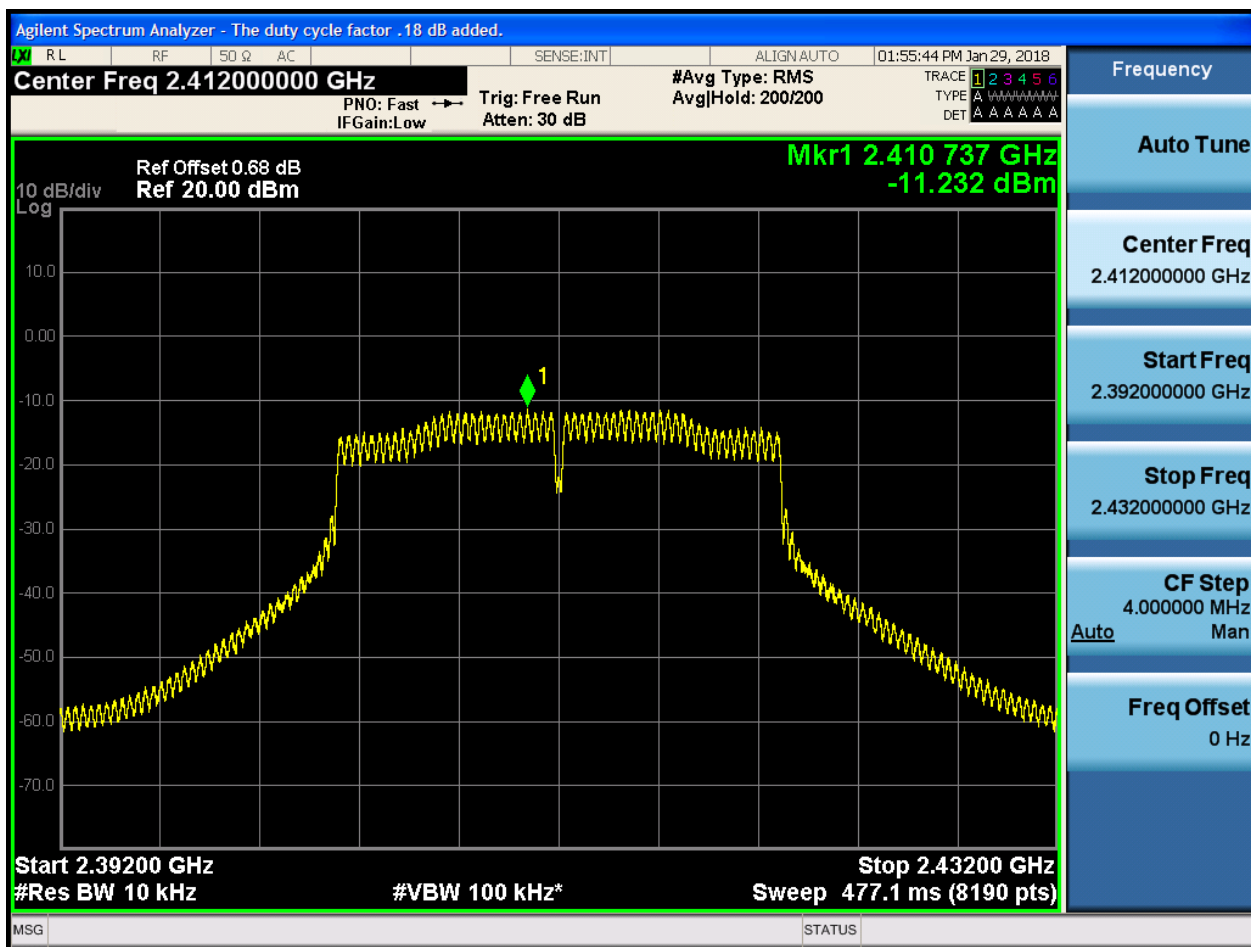


2.17 11N20_L@Ant 1





2.18 11N20_L@Ant 2





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

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:16:18 AM Jan 29, 2018

Center Freq 2.437000000 GHz #Avg Type: RMS Avg/Hold: 200/200
PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB
TRACE 1 2 3 4 5 6
TYPE A A A A A A
DET A A A A A A

Ref Offset 0.72 dB
Ref 20.00 dBm

Mkr1 2.439 811 GHz
-11.192 dBm

10 dB/div
Log

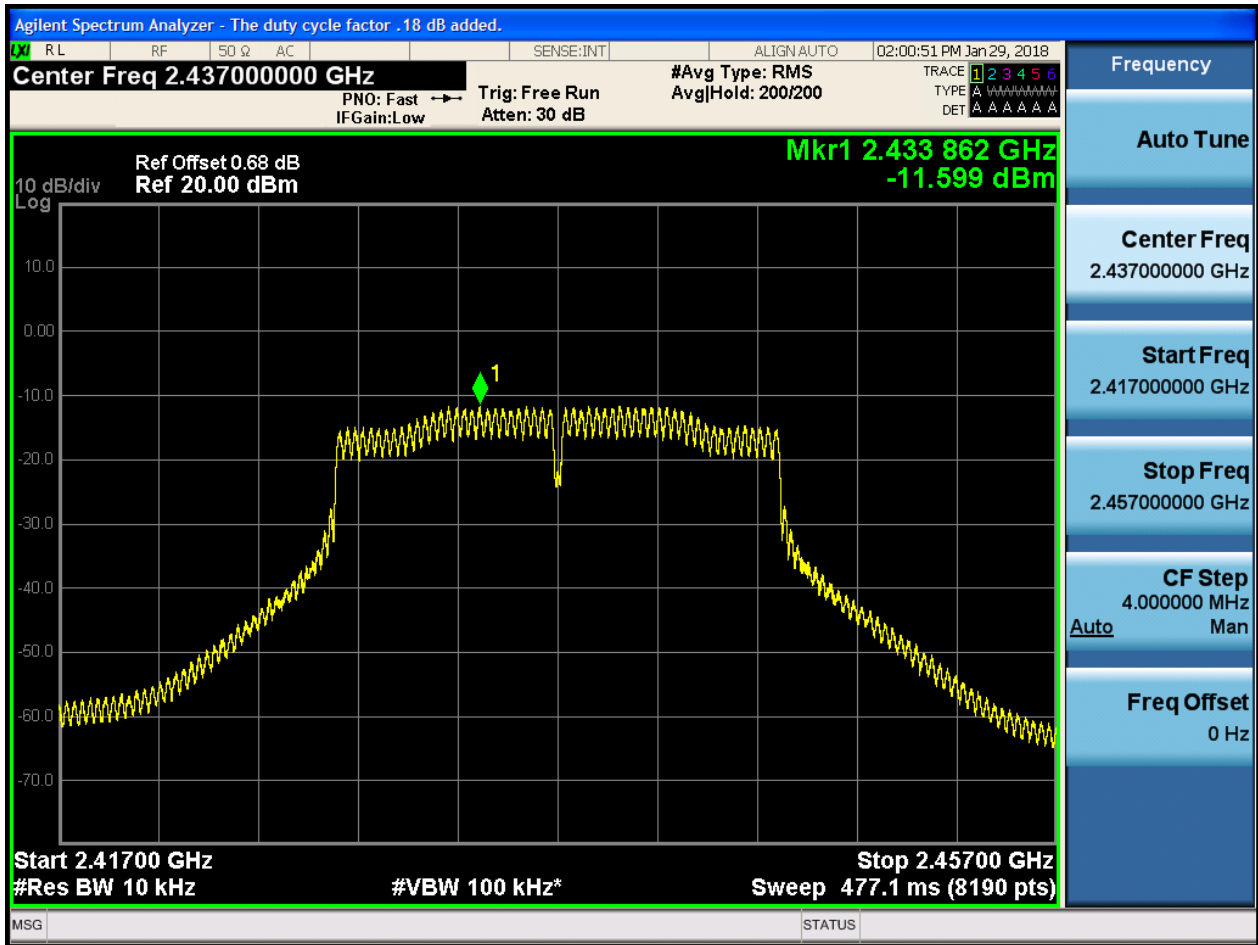
Start 2.41700 GHz #Res BW 10 kHz #VBW 100 kHz* Stop 2.45700 GHz Sweep 477.1 ms (8190 pts)

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

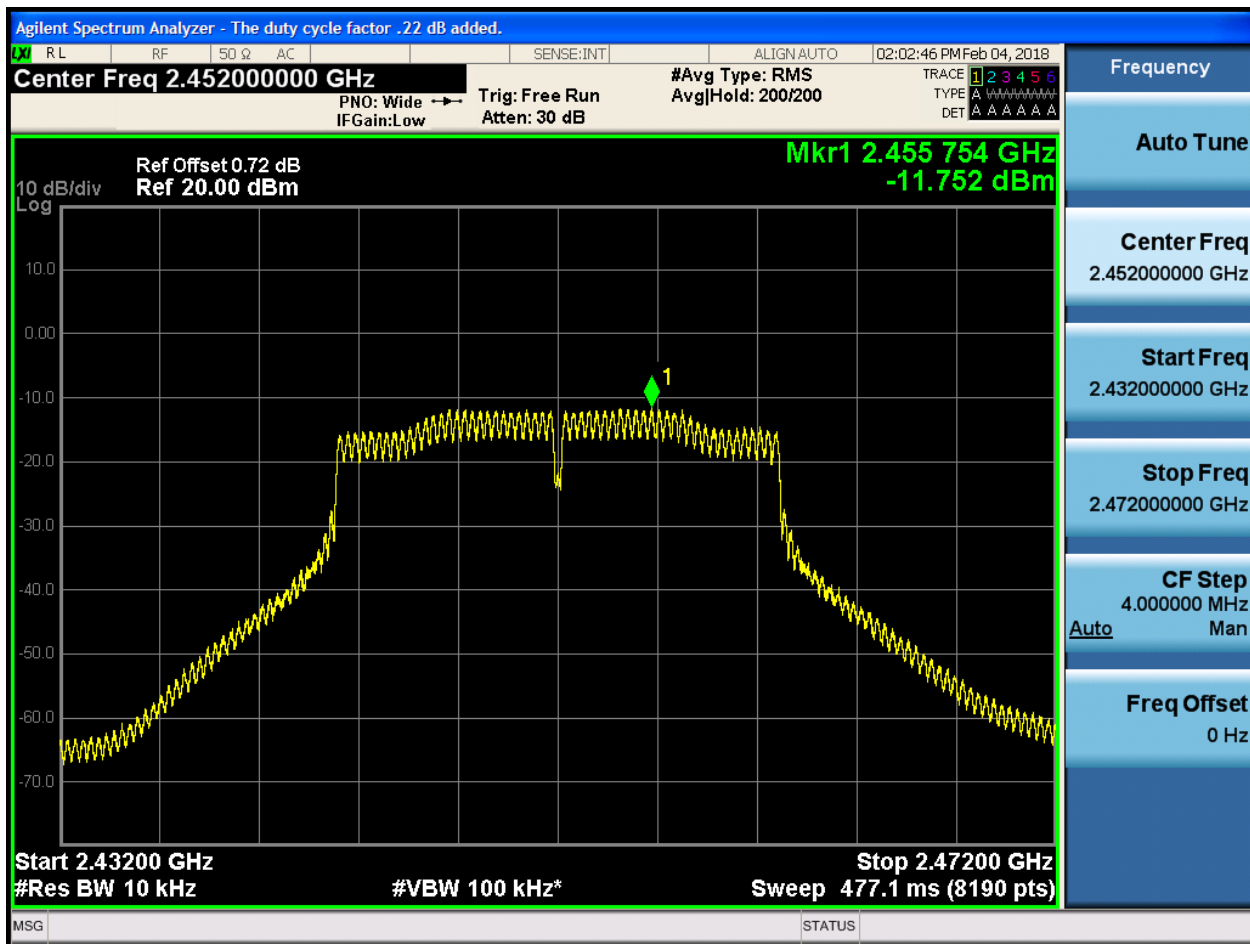


2.20 11N20_M@Ant 2

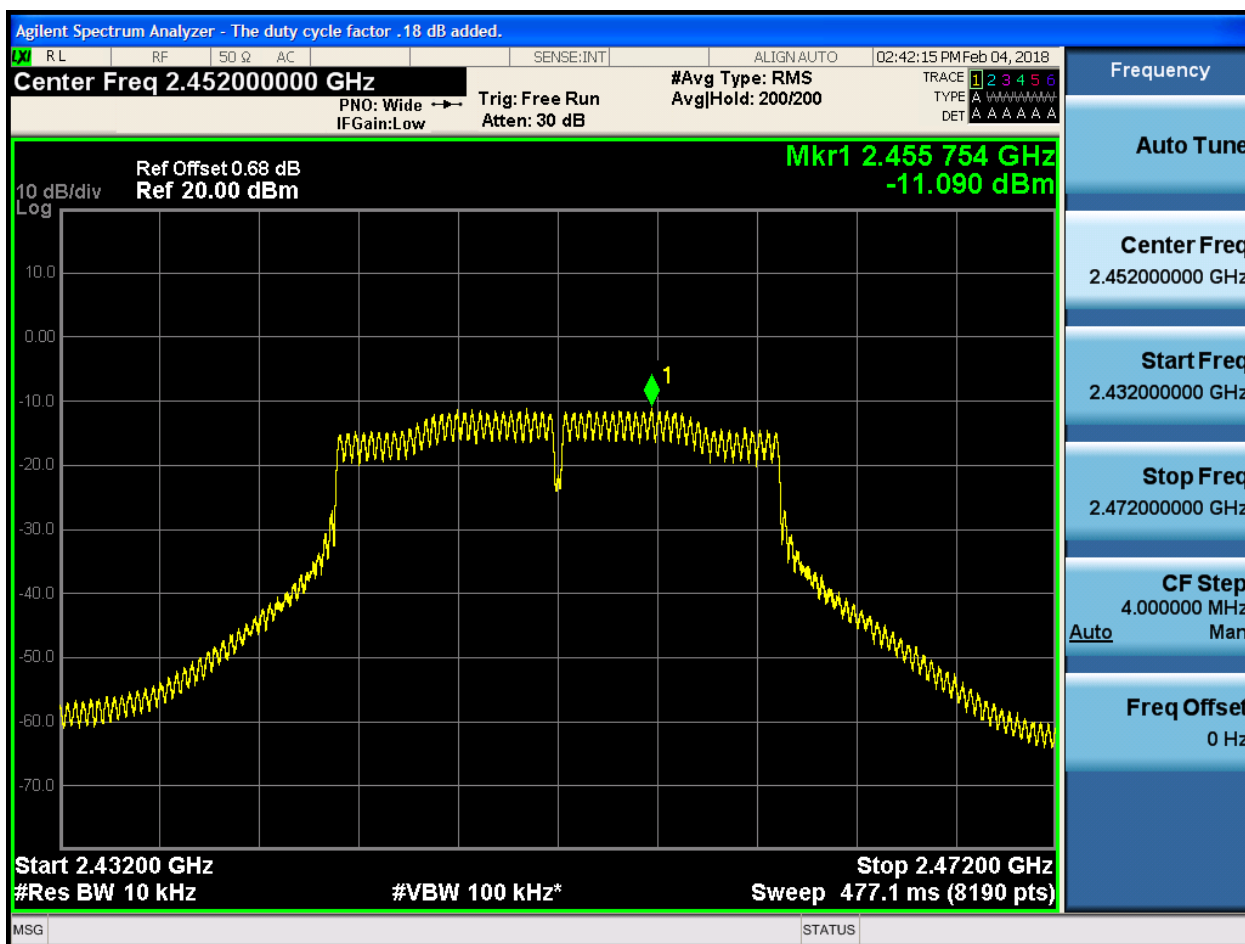




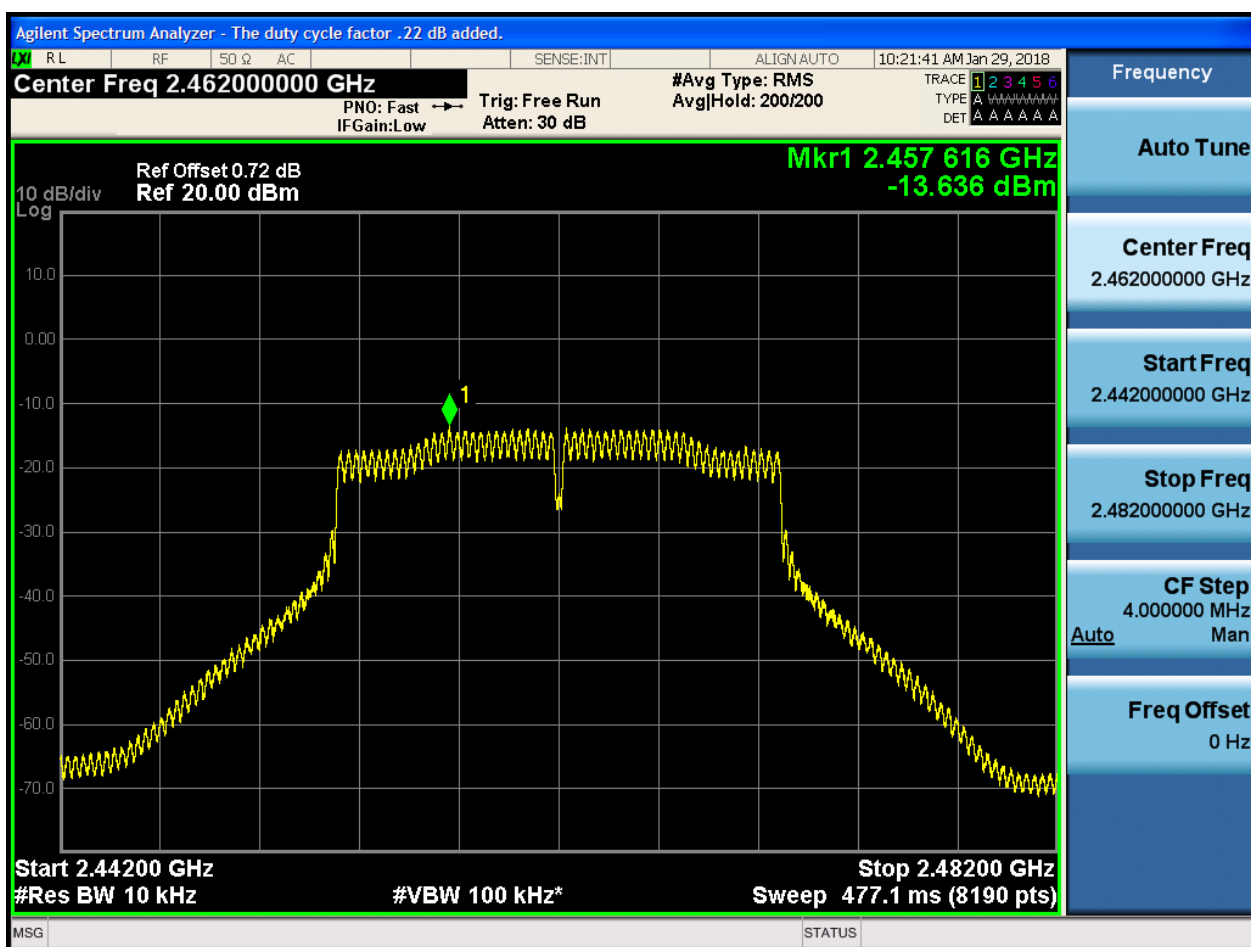
2.21 11N20_H_2452@Ant 1



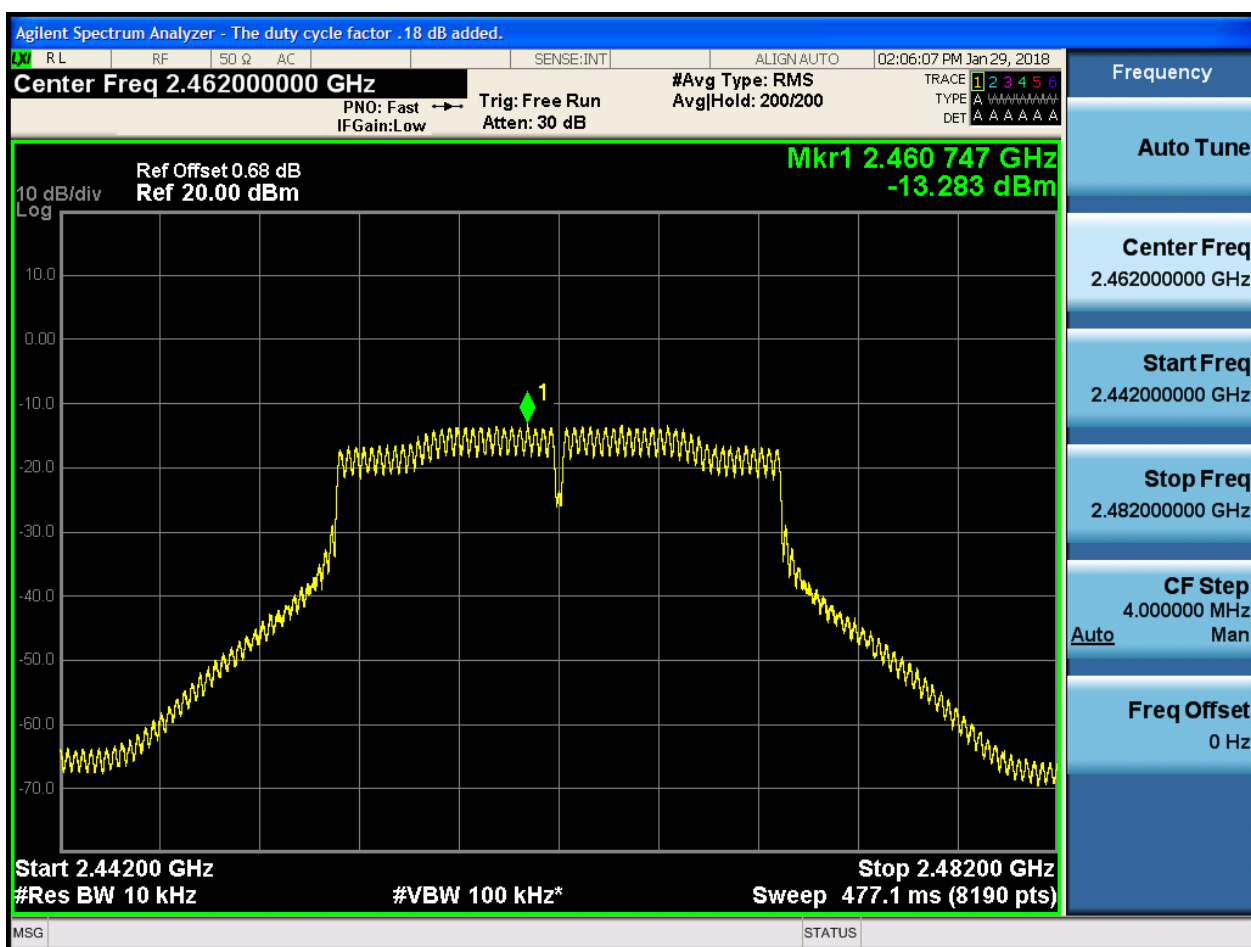
2.22 11N20 H 2452@Ant 2



2.23 11N20_H_2462@Ant 1

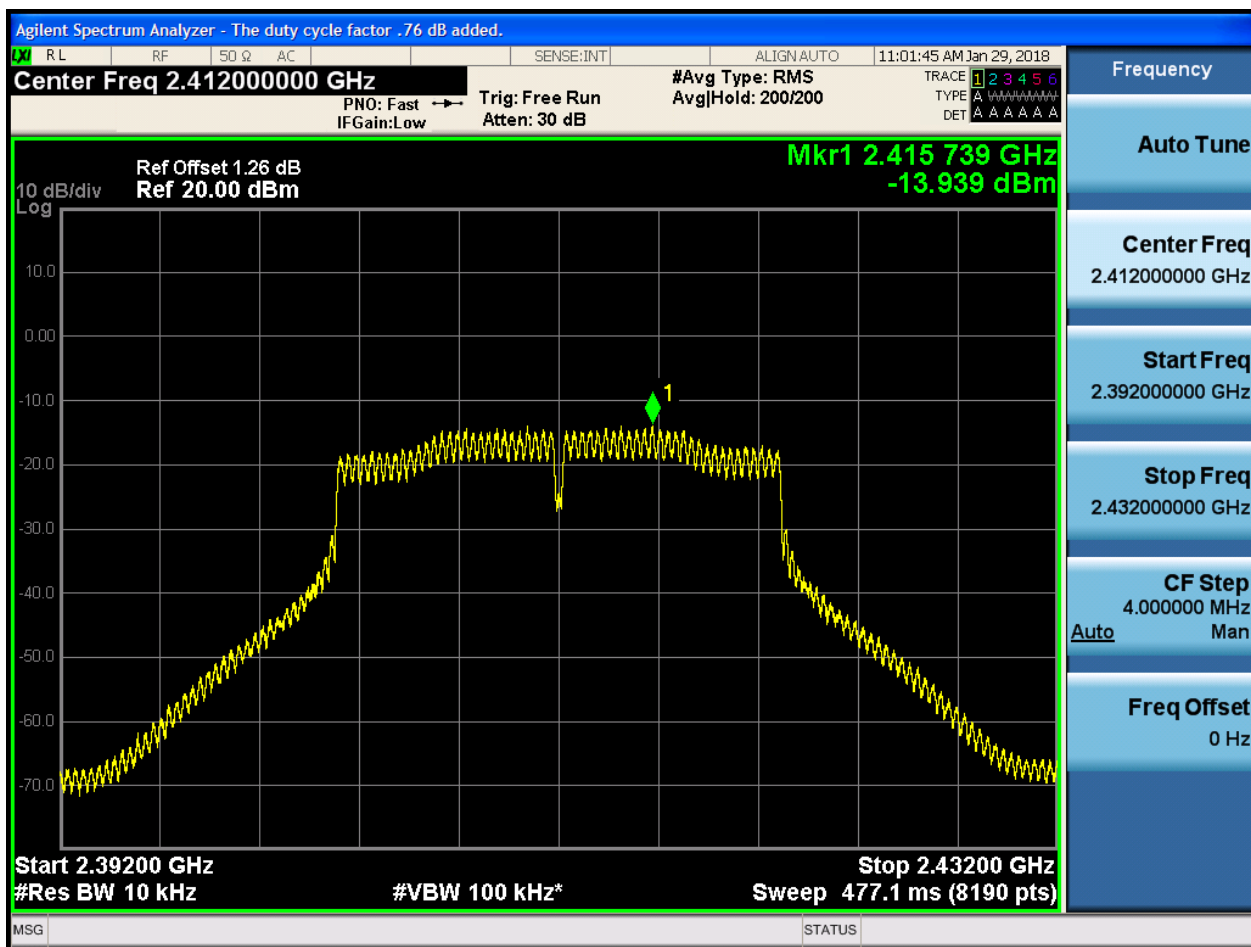


2.24 11N20_H_2462@Ant 2





2.25 11N20m_L@Ant 1





Agilent Spectrum Analyzer - The duty cycle factor .76 dB added.

Center Freq 2.412000000 GHz

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

Ref Offset 1.26 dB
Ref 20.00 dBm

Mkr1 2.414 464 GHz
-13.376 dBm

Start 2.39200 GHz
#Res BW 10 kHz

Stop 2.43200 GHz
Sweep 477.1 ms (8190 pts)

#VBW 100 kHz*

Frequency

Auto Tune

Center Freq
2.412000000 GHz

Start Freq
2.392000000 GHz

Stop Freq
2.432000000 GHz

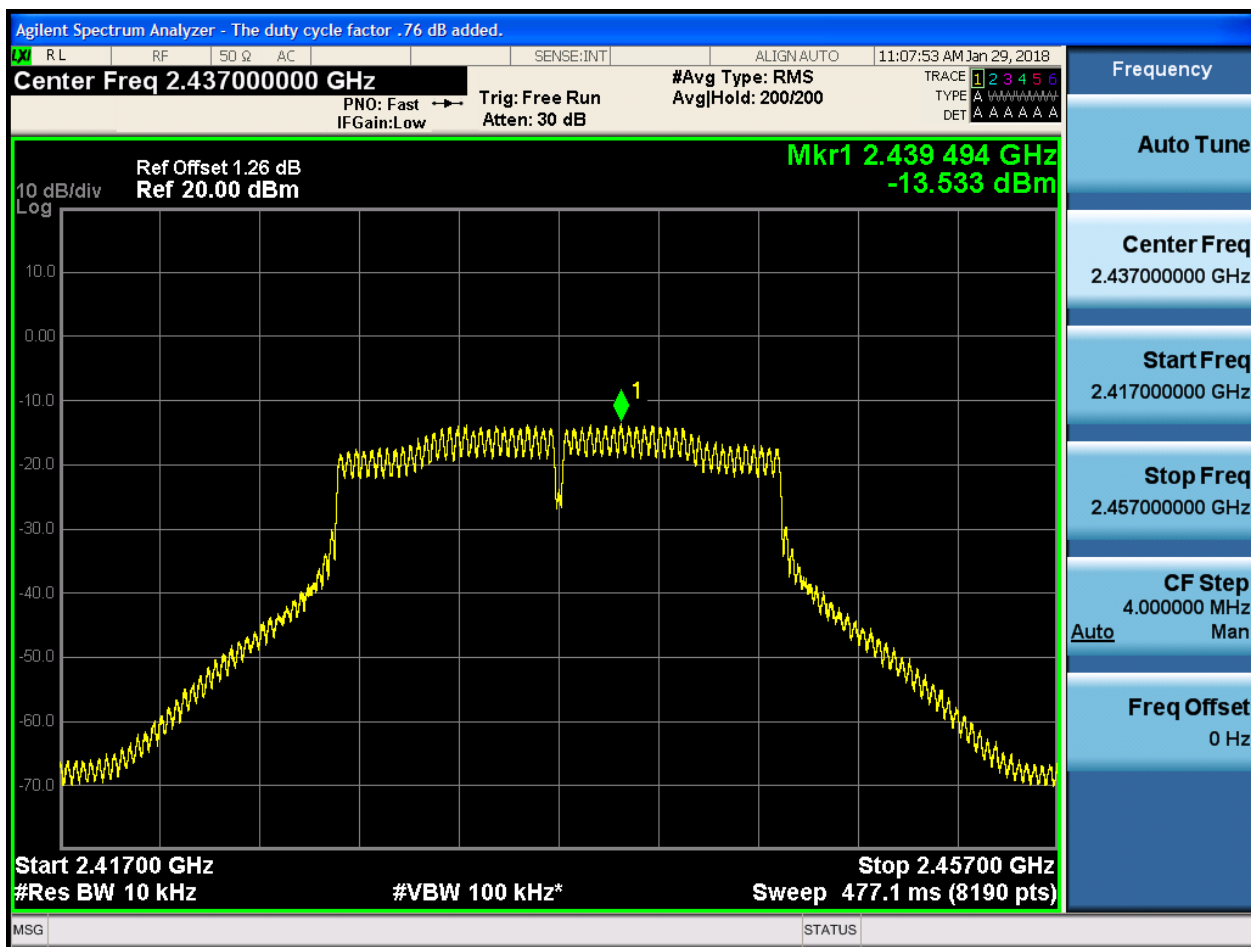
CF Step
4.000000 MHz
Auto Man

Freq Offset
0 Hz

MSG

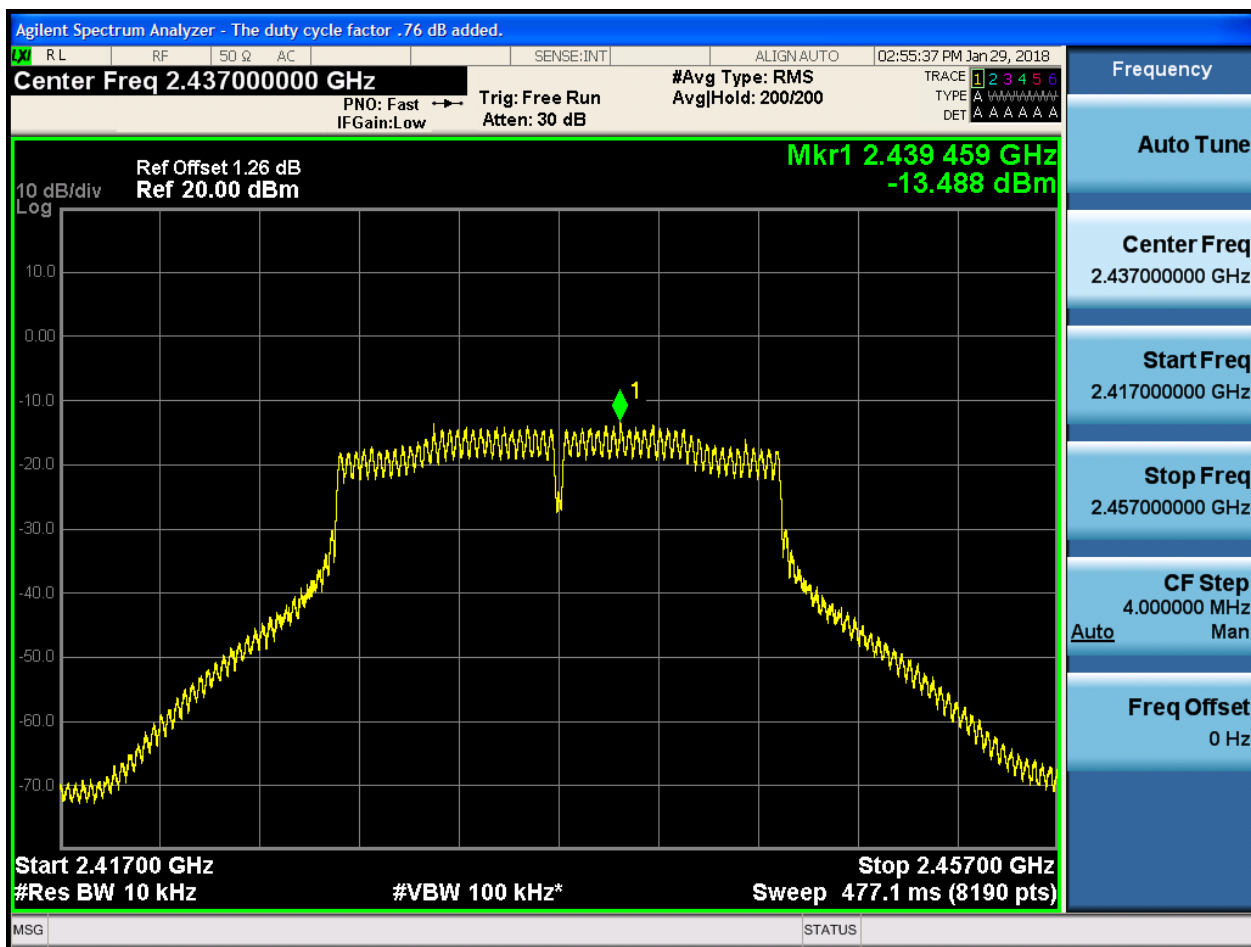


2.27 11N20m_M@Ant 1





2.28 11N20m_M@Ant 2





Agilent Spectrum Analyzer - The duty cycle factor .76 dB added.

[X] RL	RF	50 Ω	AC		SENSE:INT	ALIGN:AUTO	01:54:14 PM Feb 06, 2018
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Center Freq 2.452000000 GHz #Avg Type: RMS
 PNO: Fast → Trig: Free Run Avg/Hold: 200/200
 IFGain: Low Atten: 30 dB

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

Ref Offset 1.26 dB
 Ref 20.00 dBm

Mkr1 2.450 737 GHz
-14.333 dBm

Start 2.43200 GHz Stop 2.47200 GHz
 #Res BW 10 kHz #VBW 100 kHz* Sweep 477.1 ms (8190 pts)

Frequency	
Auto Tune	
Center Freq	2.452000000 GHz
Start Freq	2.432000000 GHz
Stop Freq	2.472000000 GHz
CF Step	4.000000 MHz
Auto	Man
Freq Offset	0 Hz



Agilent Spectrum Analyzer - The duty cycle factor .76 dB added.

RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 01:39:15 PM Feb 06, 2018

Center Freq 2.452000000 GHz #Avg Type: RMS Avg/Hold: 200/200
PNO: Fast 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 A A

Ref Offset 1.26 dB
Ref 20.00 dBm

**Mkr1 2.450 713 GHz
-13.118 dBm**

10 dB/div
Log

Start 2.43200 GHz Stop 2.47200 GHz
#Res BW 10 kHz #VBW 100 kHz* Sweep 477.1 ms (8190 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.452000000 GHz

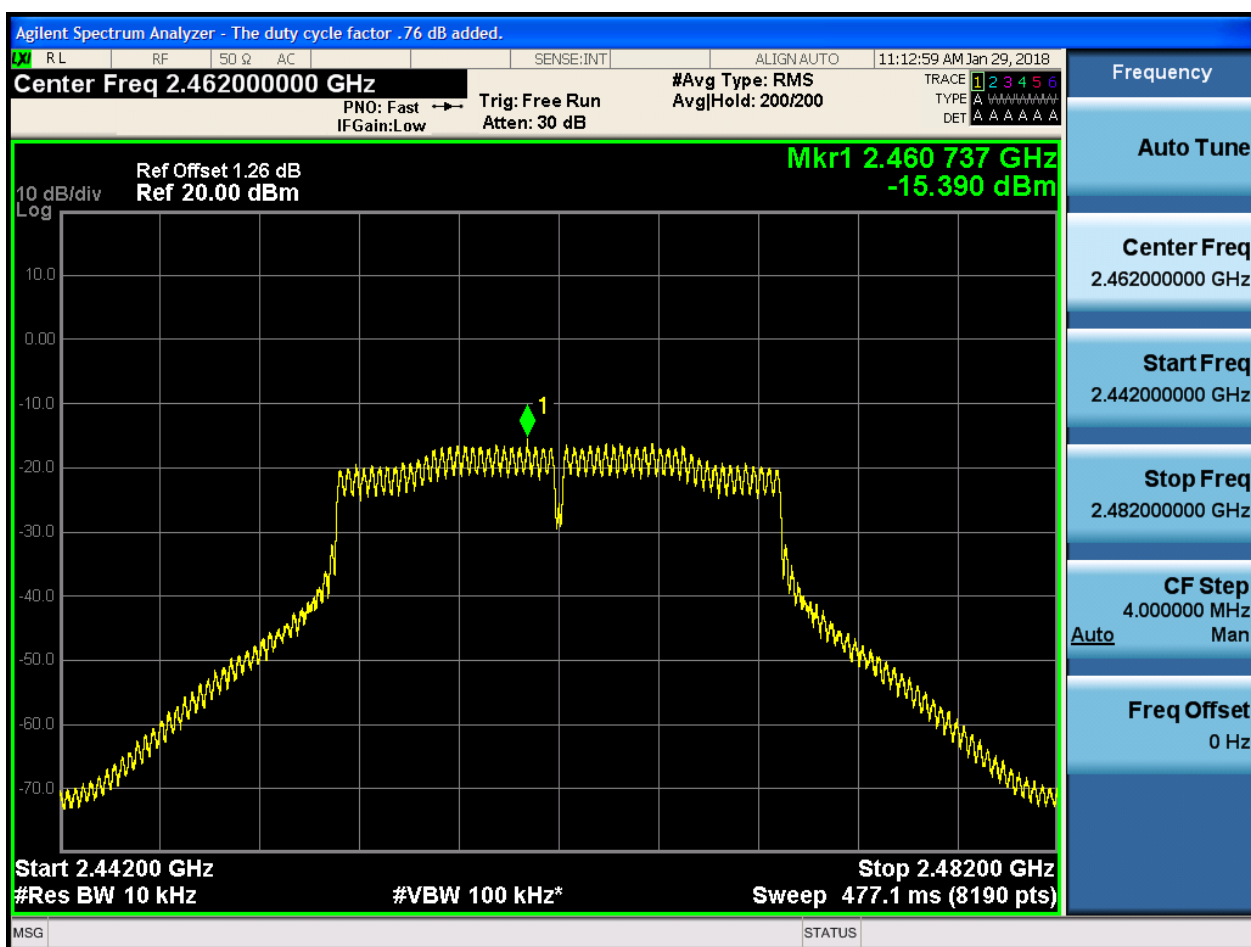
Start Freq
2.432000000 GHz

Stop Freq
2.472000000 GHz

CF Step
4.000000 MHz
Auto Man

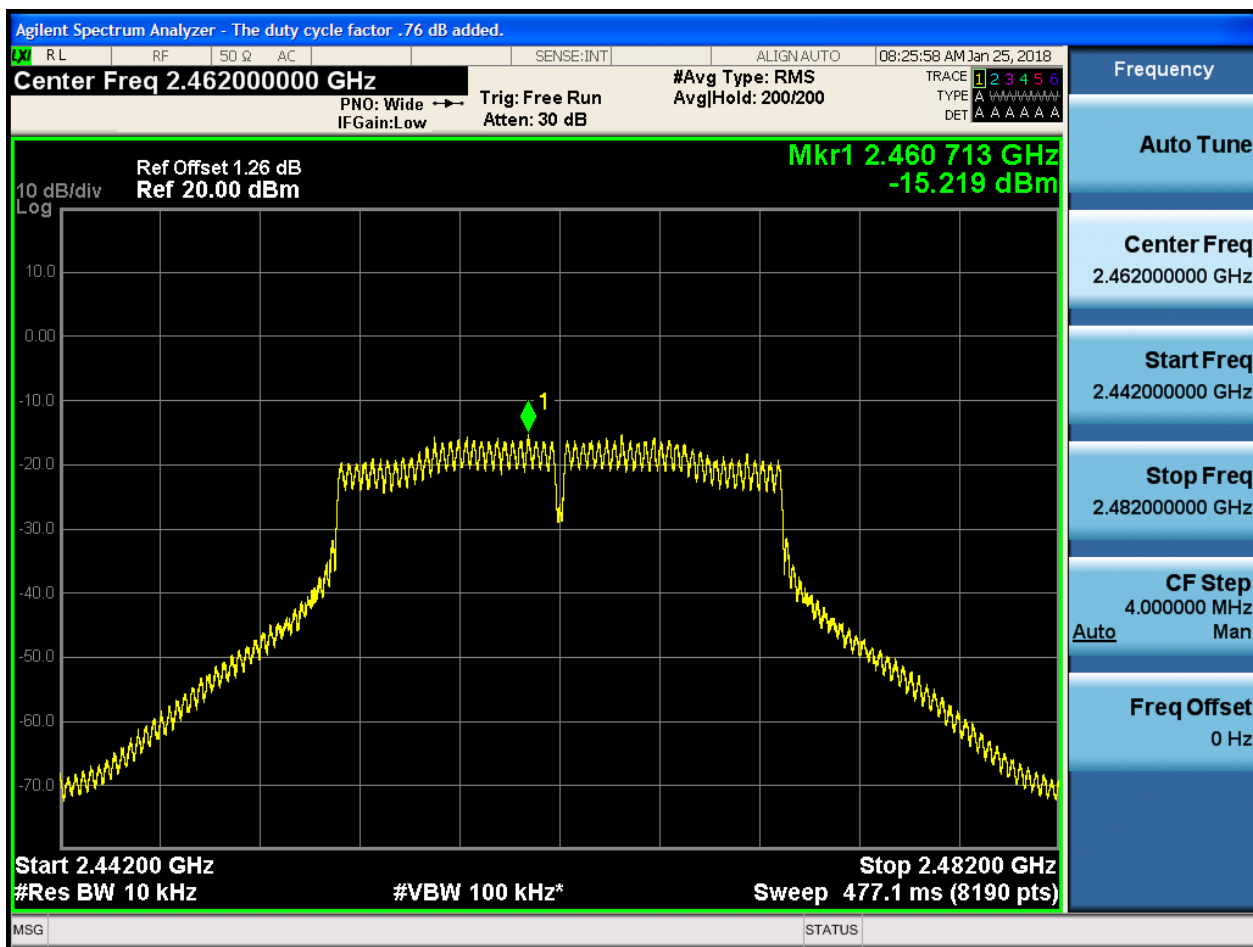
Freq Offset
0 Hz

2.31 11N20m_H_2462@Ant 1



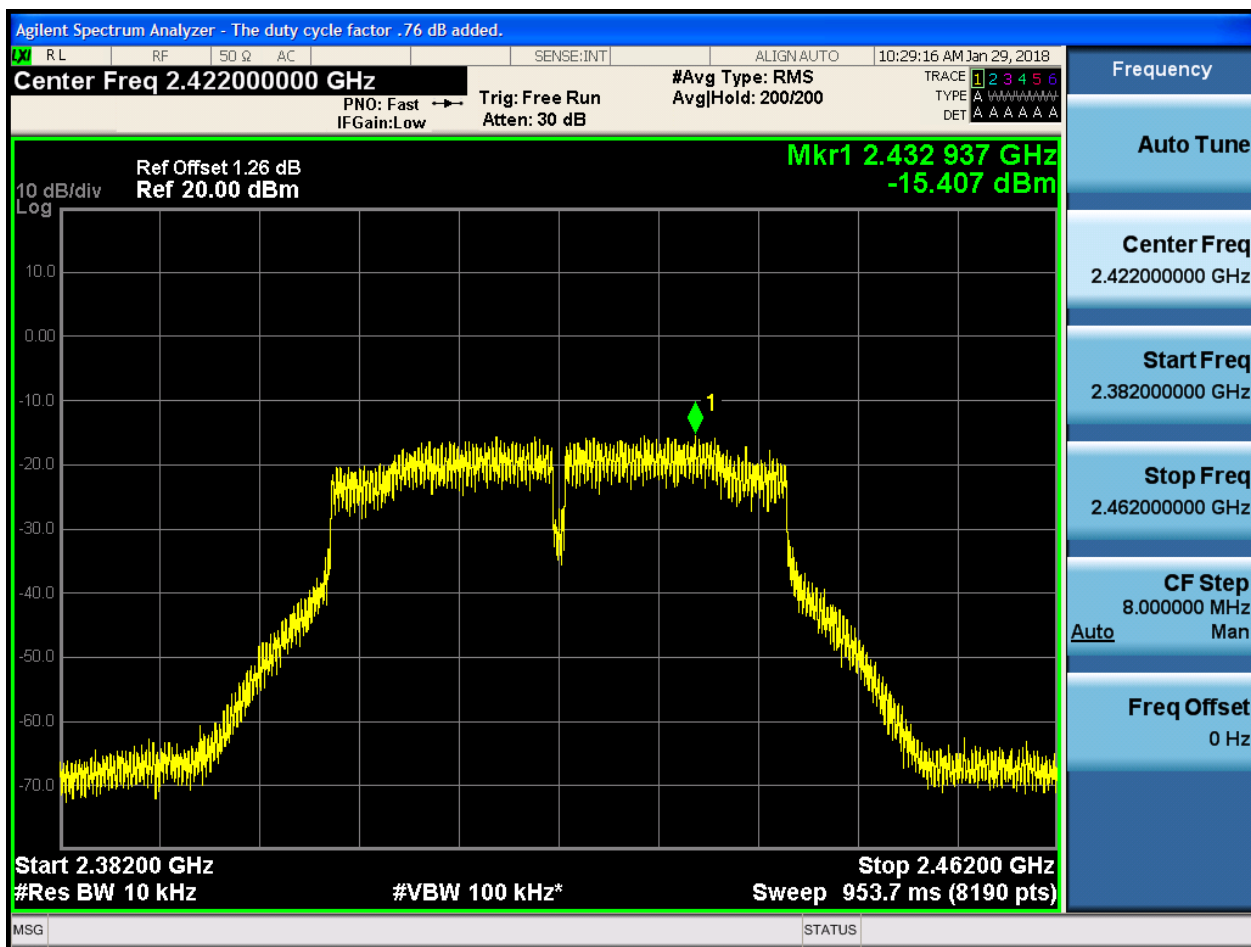


2.32 11N20m_H_2462@Ant 2



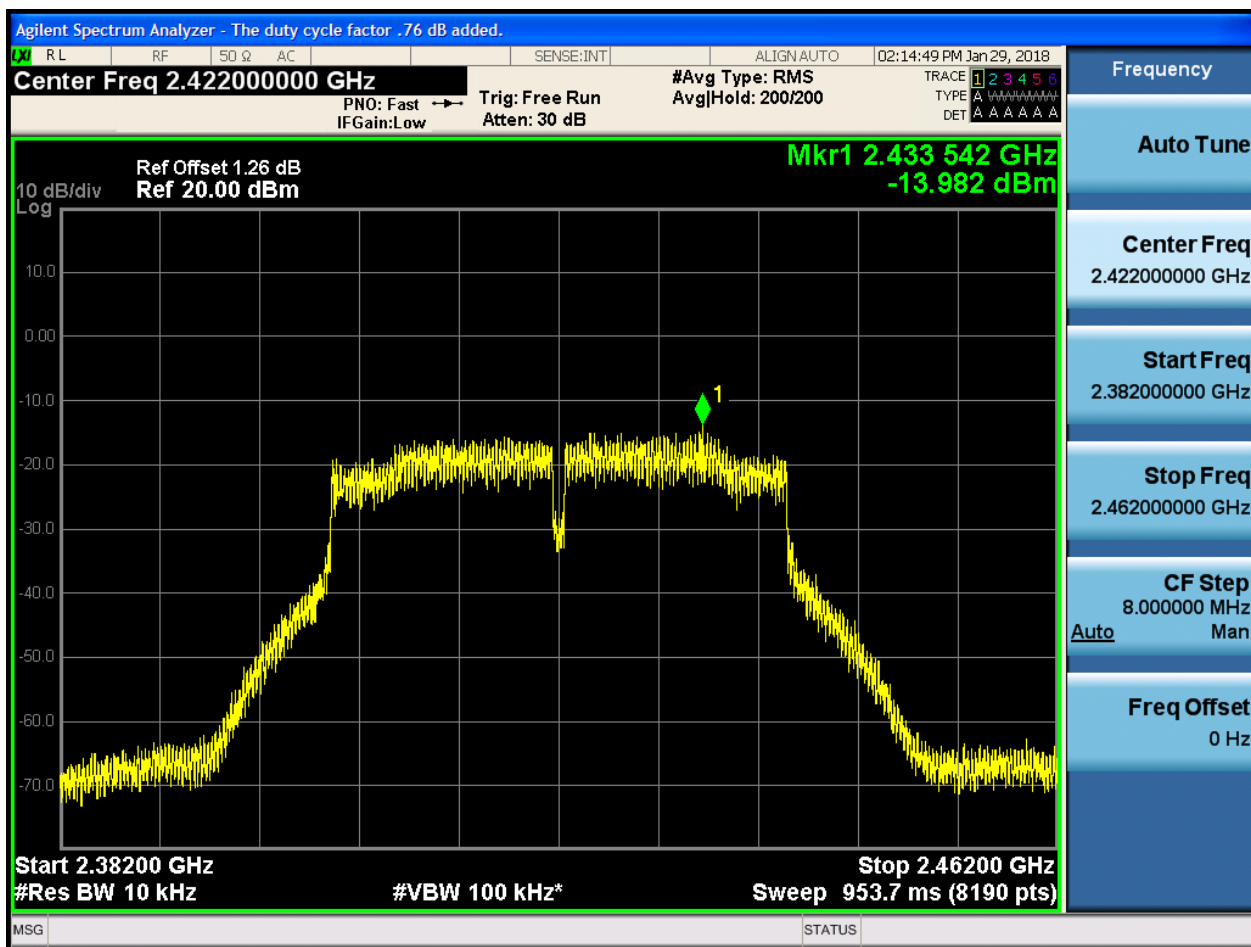


2.33 11N40_L@Ant 1



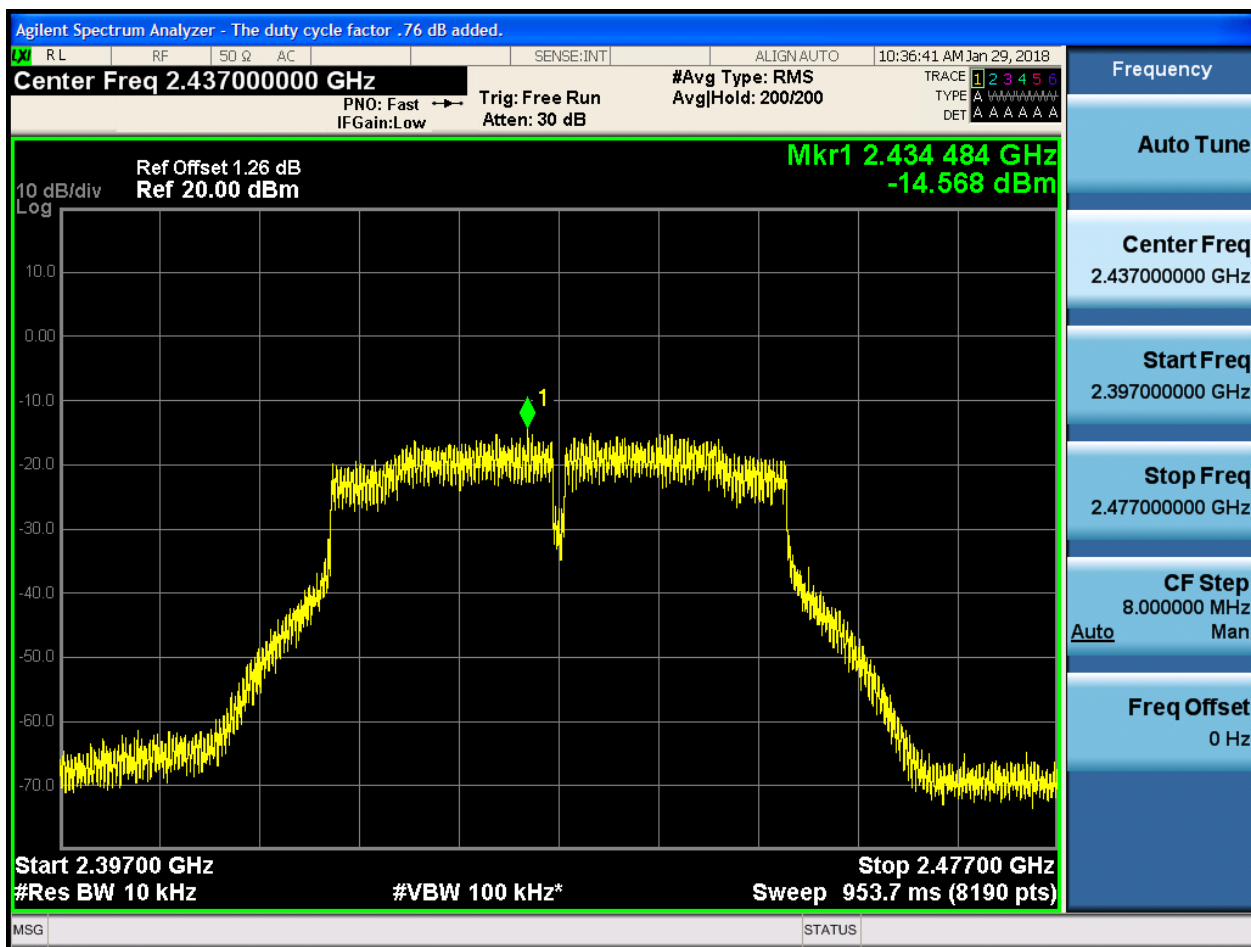


2.34 11N40_L@Ant 2



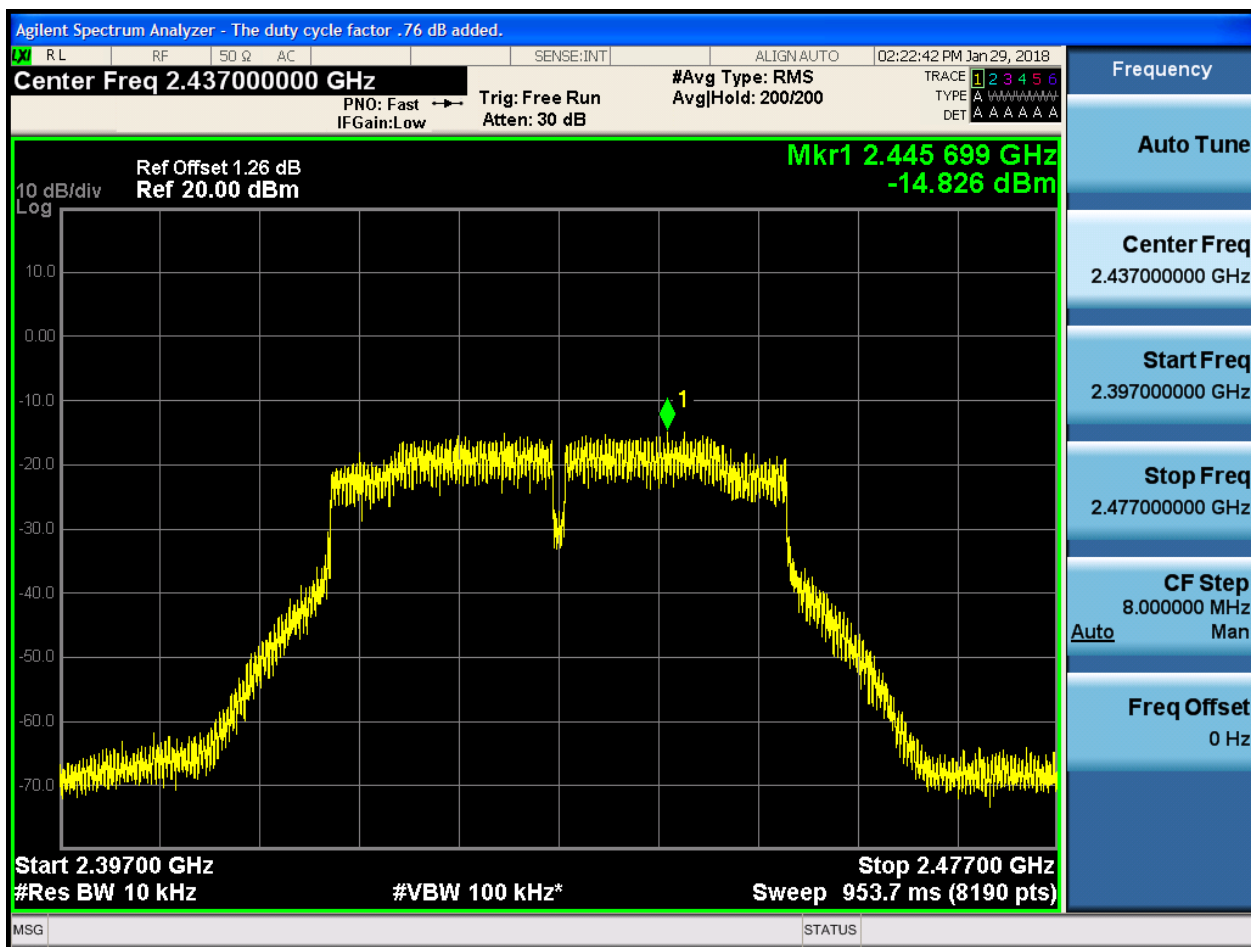


2.35 11N40_M@Ant 1



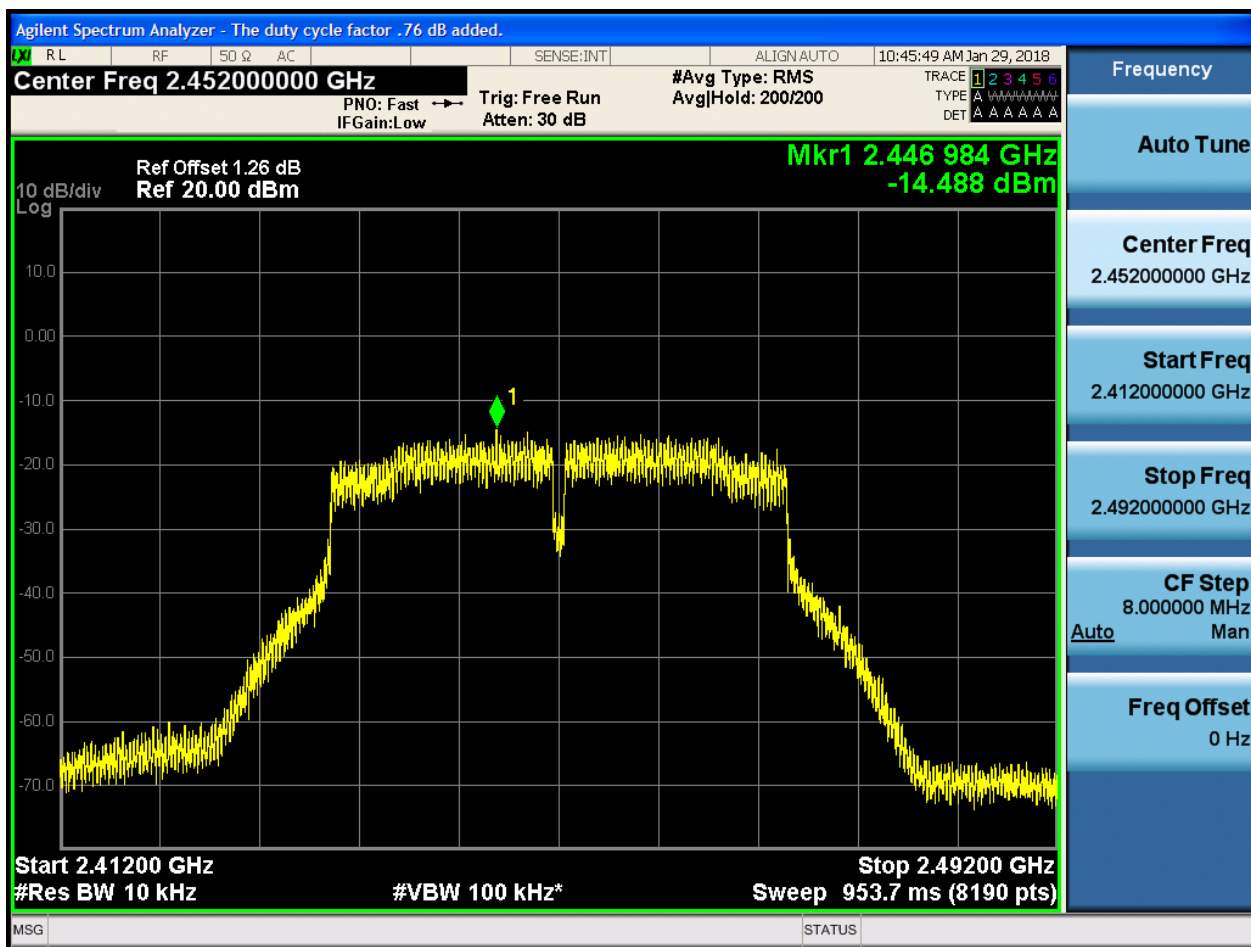


2.36 11N40_M@Ant 2



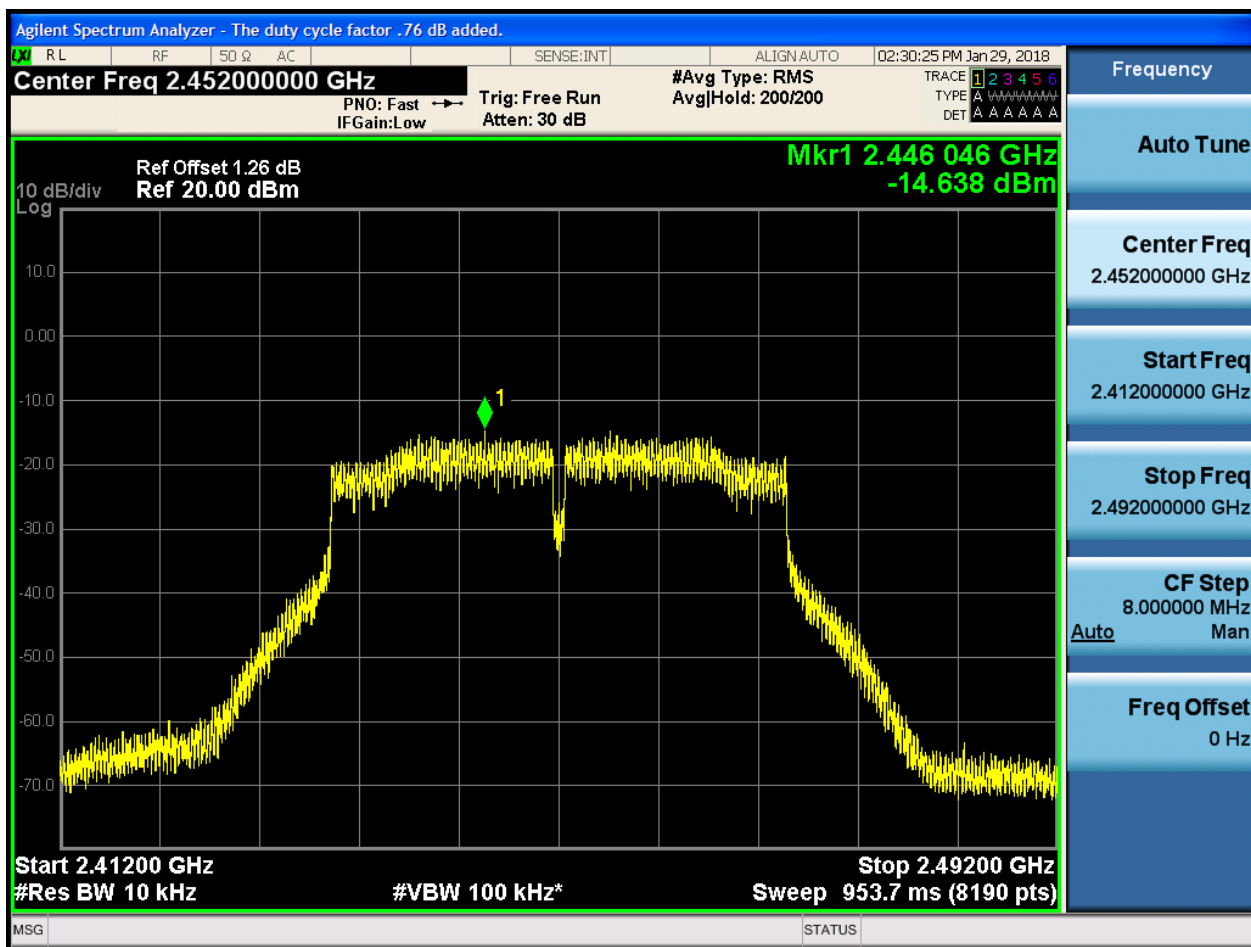


2.37 11N40_H@Ant 1



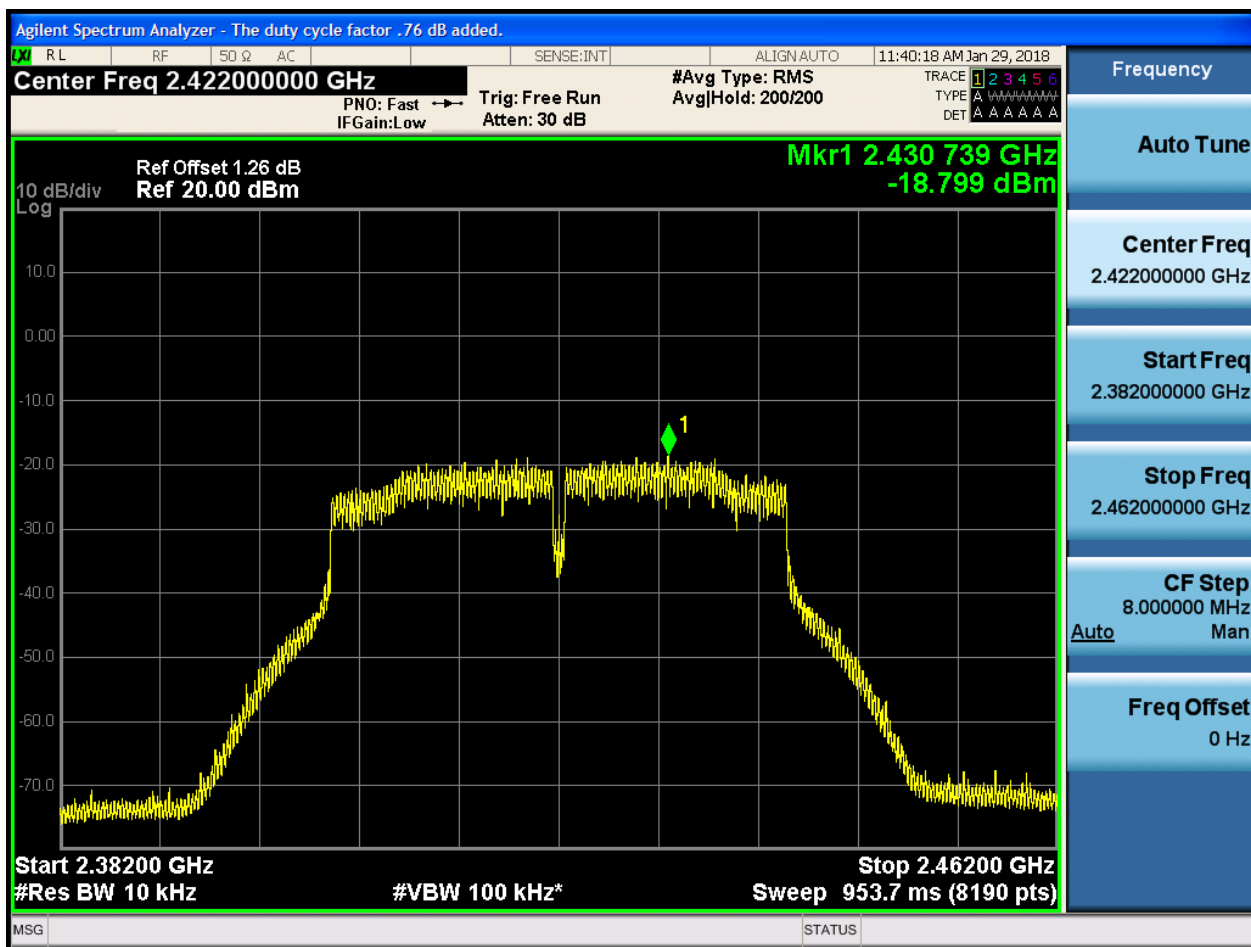


2.38 11N40_H@Ant 2





2.39 11N40m_L@Ant 1





2.40 11N40m_L@Ant 2

