

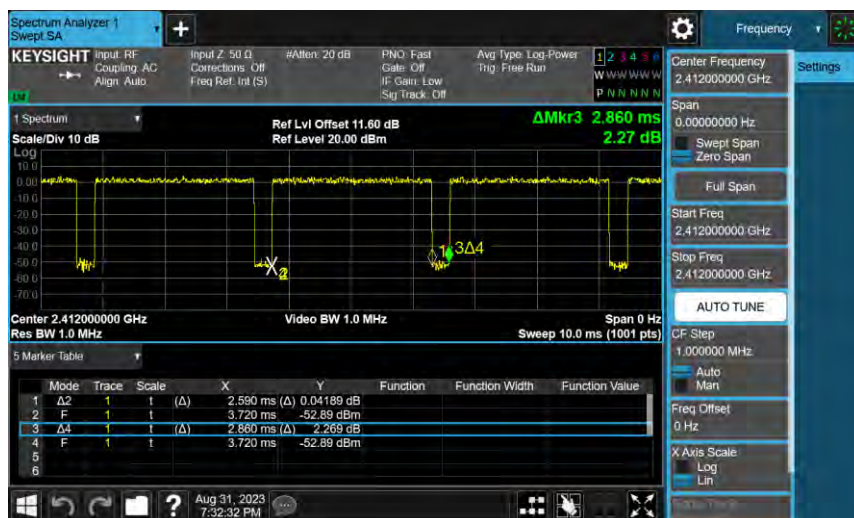
Appendix B Test Plots

Duty cycle



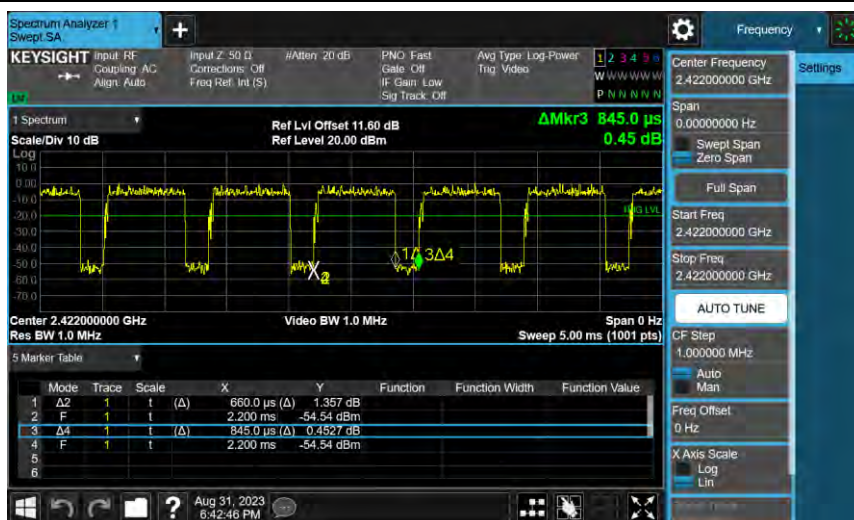
802.11n HT20

On+off time



802.11n HT40

On+off time



Out of Band Conducted Spurious Emission

802.11b_ANT-1

2412 MHz

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input RF: Coupling AC, Align Auto; Input Z: 50 Ω , Corrections Off, Freq Ref: Int (S); #Atten: 20 dB; PNO: Fast Gate Off, IF Gain Low, Sig Track Off; Avg Type: Log-Power, Trig: Free Run; 1 2 3 4 5 6; WWW.WWW.W; P N N N N N

1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 11.60 dB
Ref Level 20.00 dBm
Mkr2 24.702 2 GHz
-39.69 dBm

Start 30 MHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 25.00 GHz
Sweep ~2.39 s (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	24.115 GHz	4.248 dBm		
2	N	1	f	24.702 2 GHz	-39.69 dBm		
3							
4							
5							
6							

Aug 31, 2023 6:17:29 PM

2437 MHz

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input RF: Coupling AC, Align Auto; Input Z: 50 Ω , Corrections Off, Freq Ref: Int (S); #Atten: 20 dB; PNO: Fast Gate Off, IF Gain Low, Sig Track Off; Avg Type: Log-Power, Trig: Free Run; 1 2 3 4 5 6; WWW.WWW.W; P N N N N N

1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 11.60 dB
Ref Level 20.00 dBm
Mkr2 24.740 9 GHz
-39.57 dBm

Start 30 MHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 25.00 GHz
Sweep ~2.39 s (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	24.377 GHz	2.667 dBm		
2	N	1	f	24.740 9 GHz	-39.57 dBm		
3							
4							
5							
6							

Aug 31, 2023 6:20:42 PM

2462 MHz

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input RF: Coupling AC, Align Auto; Input Z: 50 Ω , Corrections Off, Freq Ref: Int (S); #Atten: 20 dB; PNO: Fast Gate Off, IF Gain Low, Sig Track Off; Avg Type: Log-Power, Trig: Free Run; 1 2 3 4 5 6; WWW.WWW.W; P N N N N N

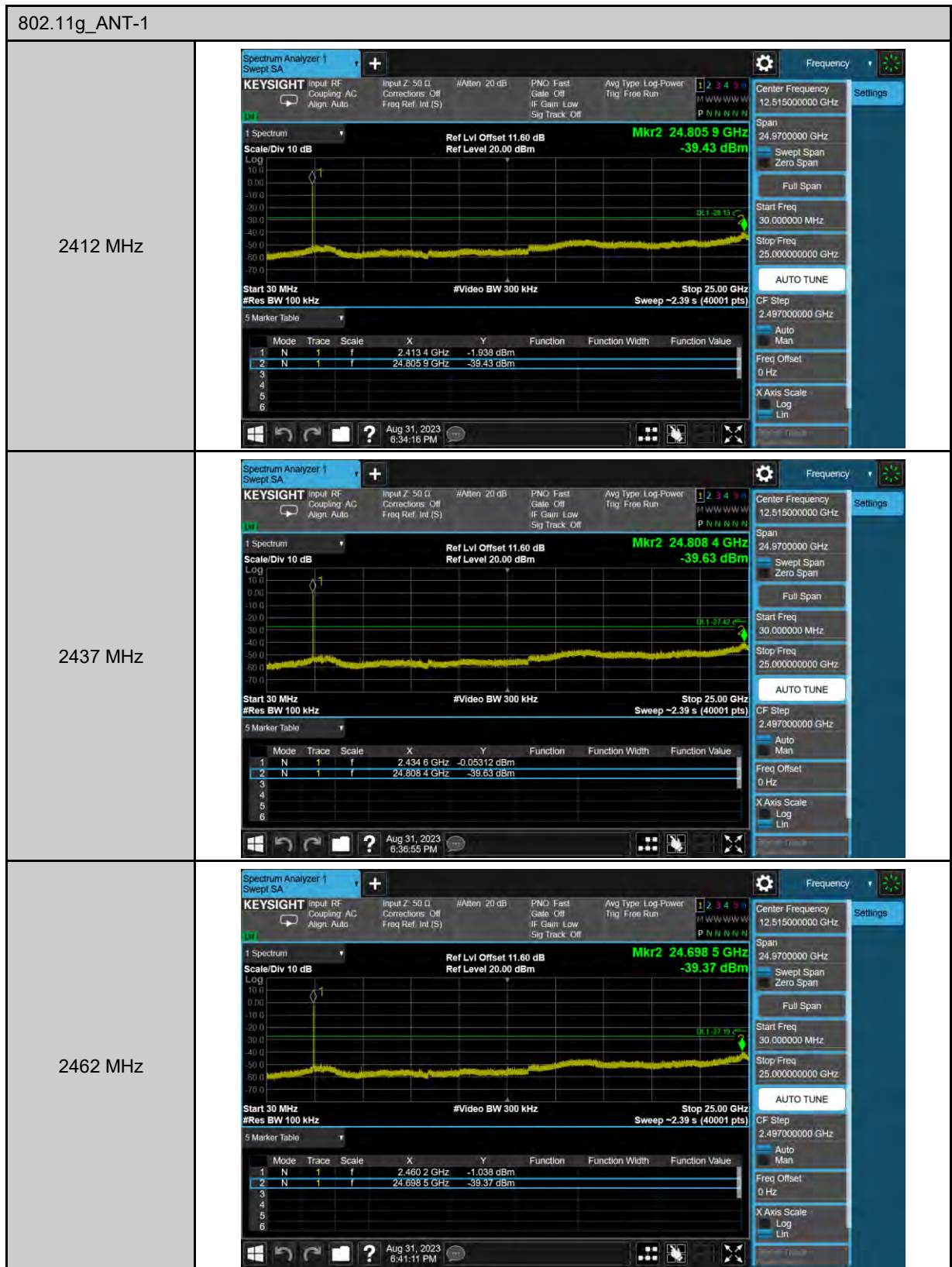
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 11.60 dB
Ref Level 20.00 dBm
Mkr2 24.749 1 GHz
-39.21 dBm

Start 30 MHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 25.00 GHz
Sweep ~2.39 s (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	24.627 GHz	5.017 dBm		
2	N	1	f	24.749 1 GHz	-39.21 dBm		
3							
4							
5							
6							

Aug 31, 2023 6:23:47 PM

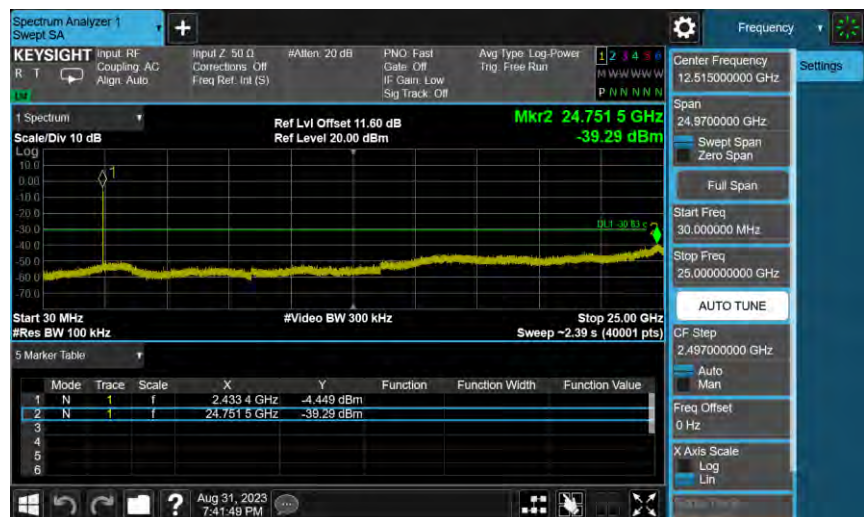


802.11n HT20_ANT-0

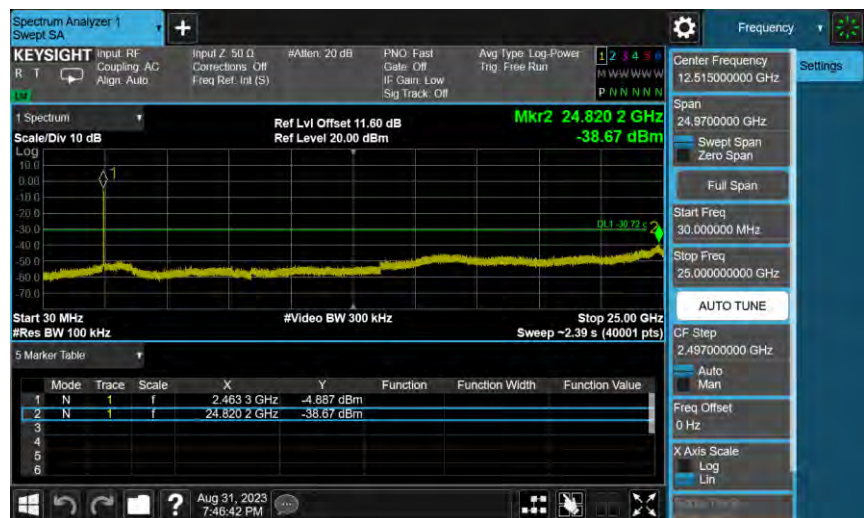
2412 MHz



2437 MHz



2462 MHz



802.11n HT20_ANT-1

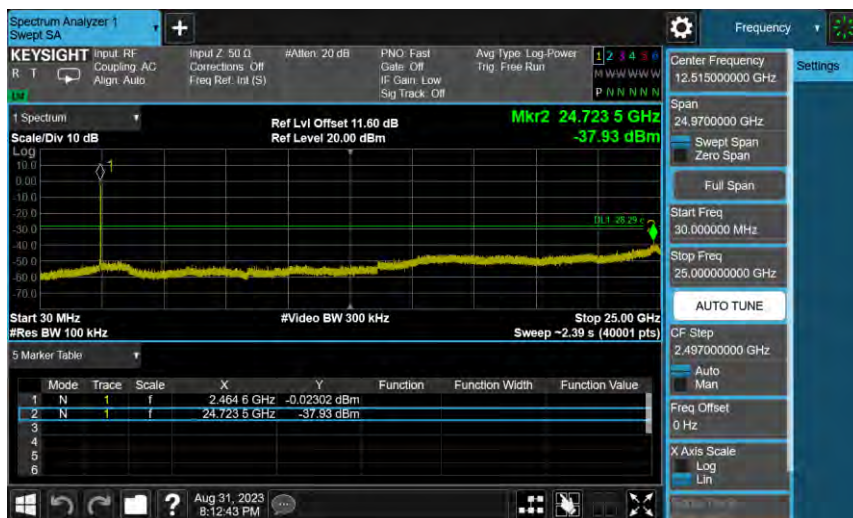
2412 MHz



2437 MHz



2462 MHz



802.11n HT40_ANT-1

2422 MHz



2437 MHz

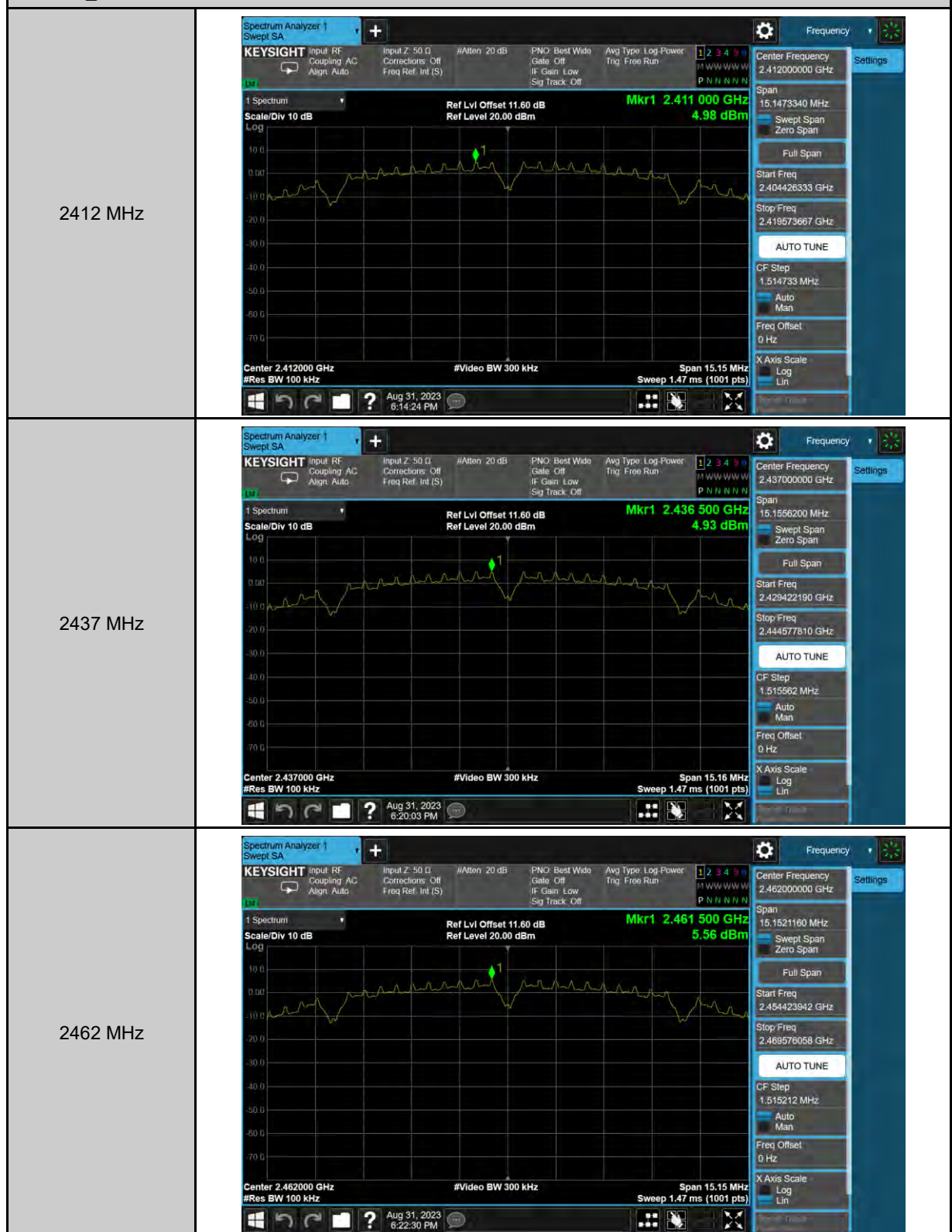


2452 MHz



Reference level

802.11b_ANT-1





802.11n HT20_ANT-0

2412 MHz



2437 MHz



2462 MHz



802.11n HT20_ANT-1

2412 MHz



2437 MHz

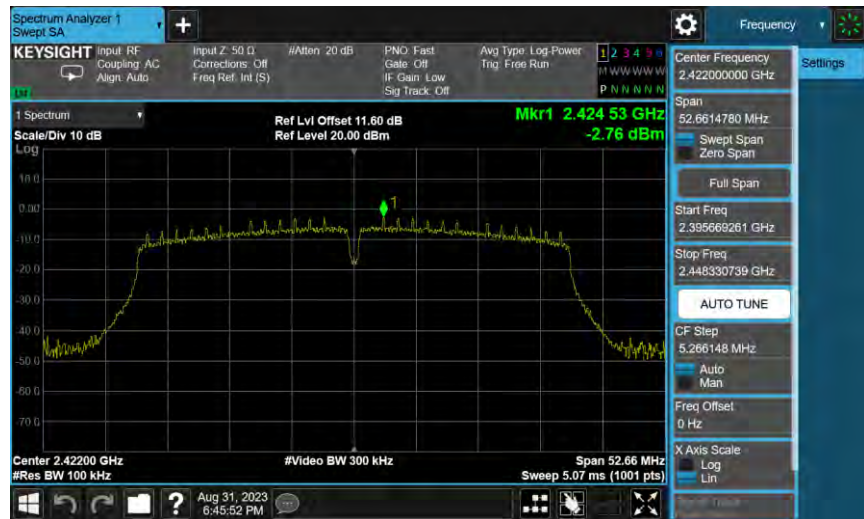


2462 MHz

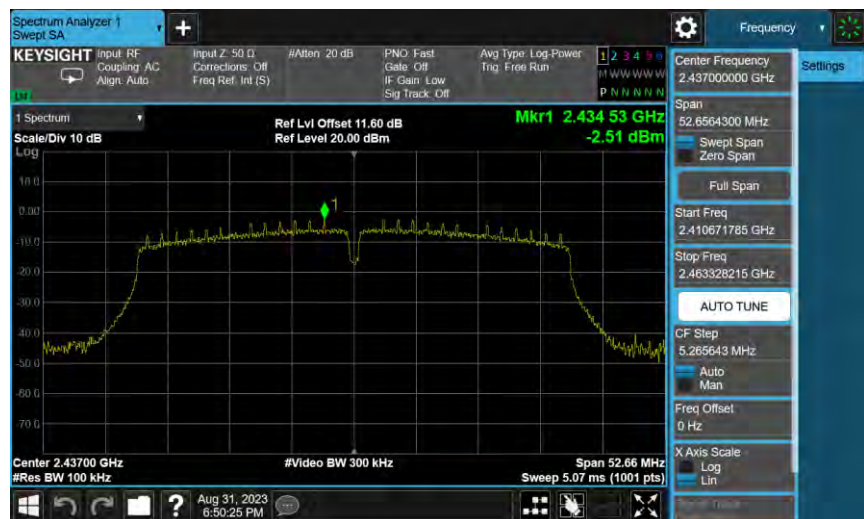


802.11n HT40_ANT-1

2422 MHz



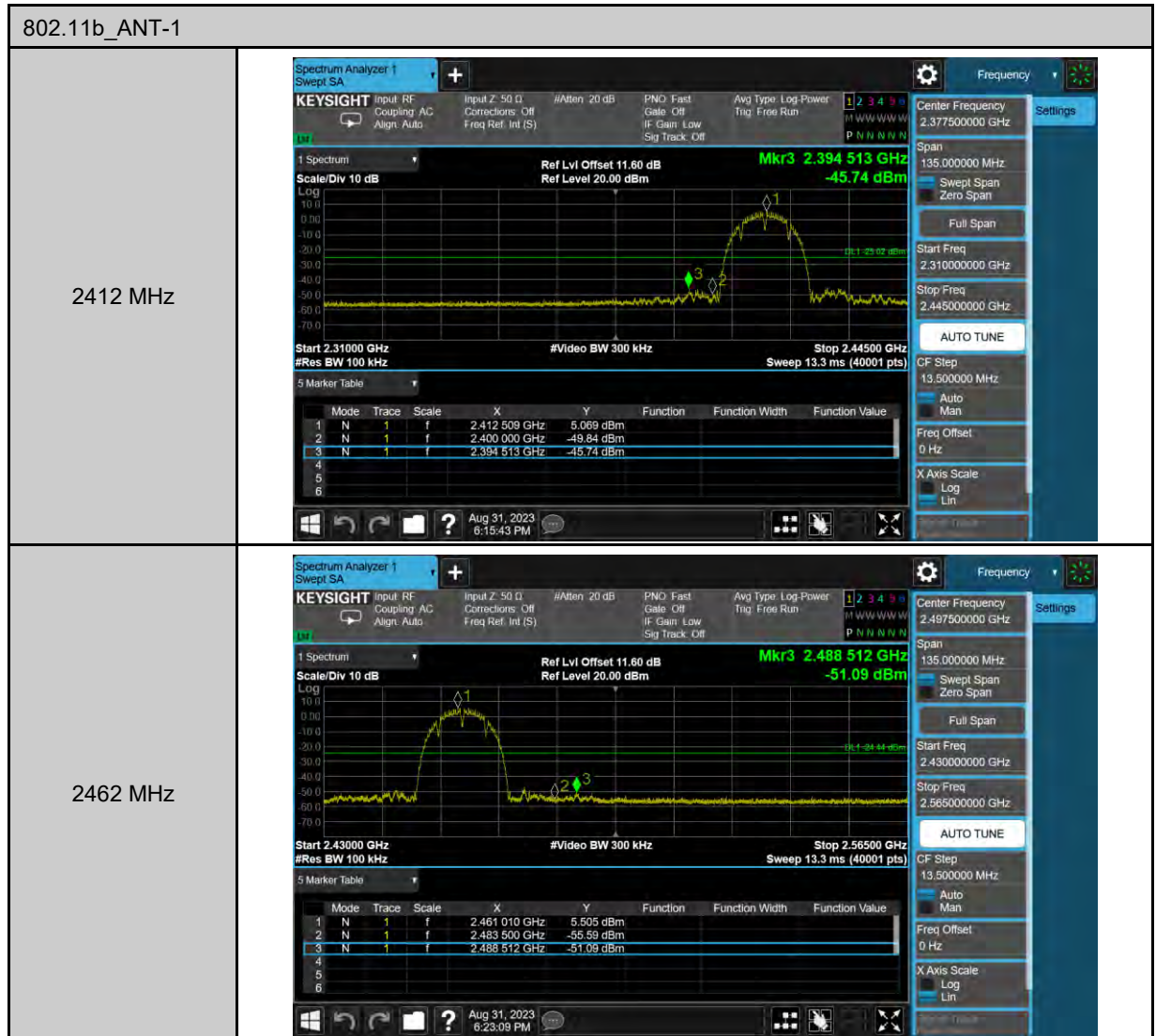
2437 MHz



2452 MHz

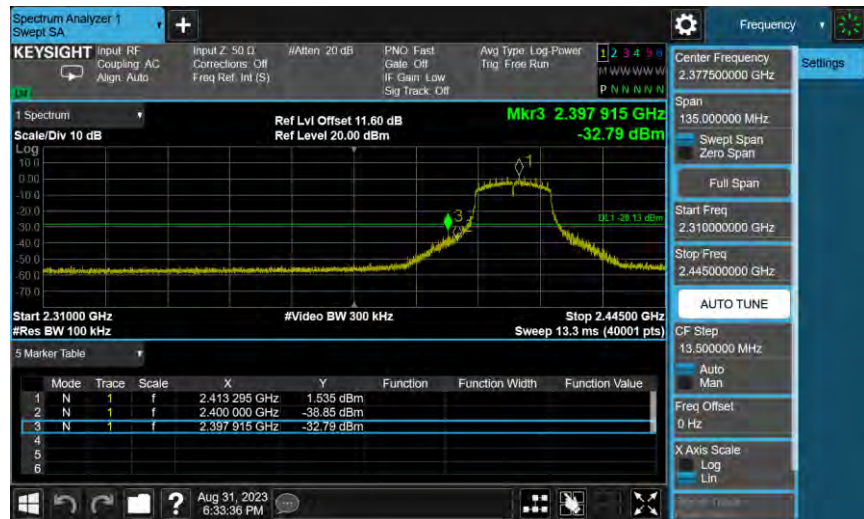


Conducted Band Edge



802.11g_ANT-1

2412 MHz

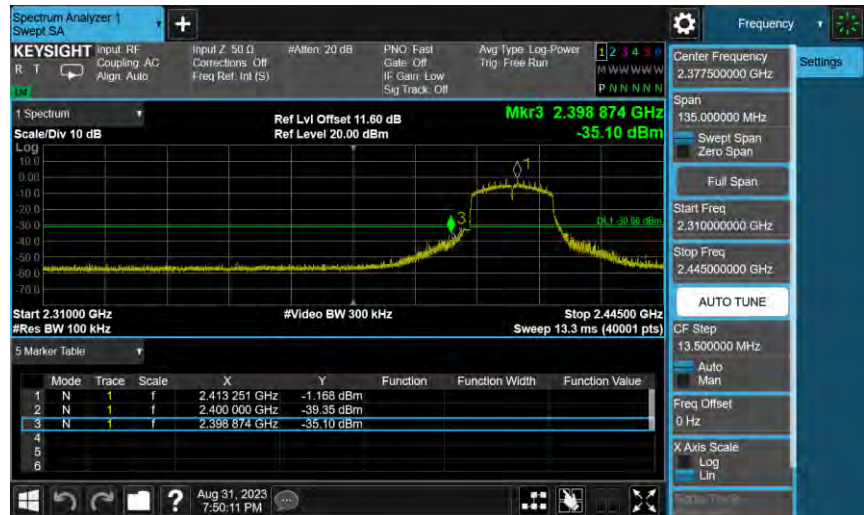


2462 MHz

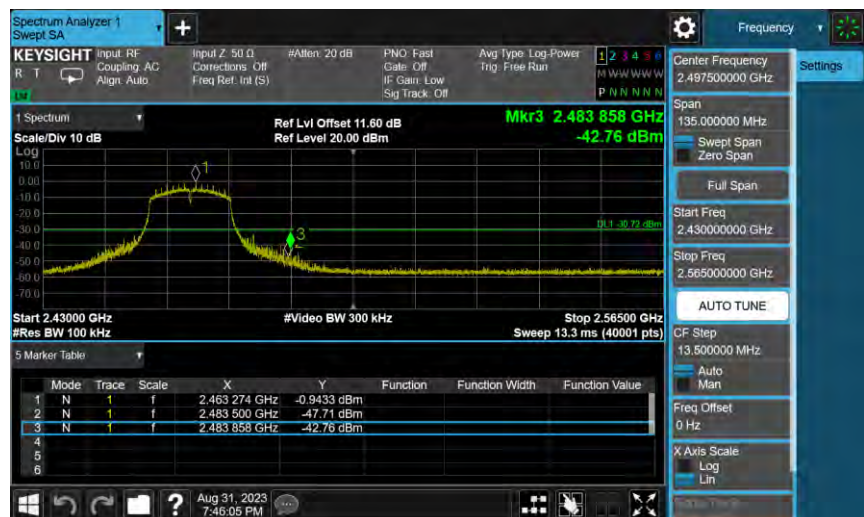


802.11n HT20_ANT-0

2412 MHz

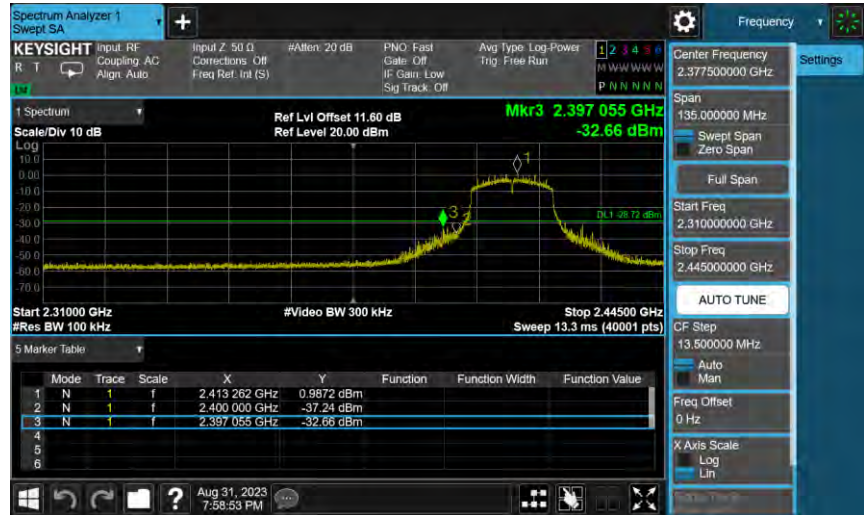


2462 MHz



802.11n HT20_ANT-1

2412 MHz

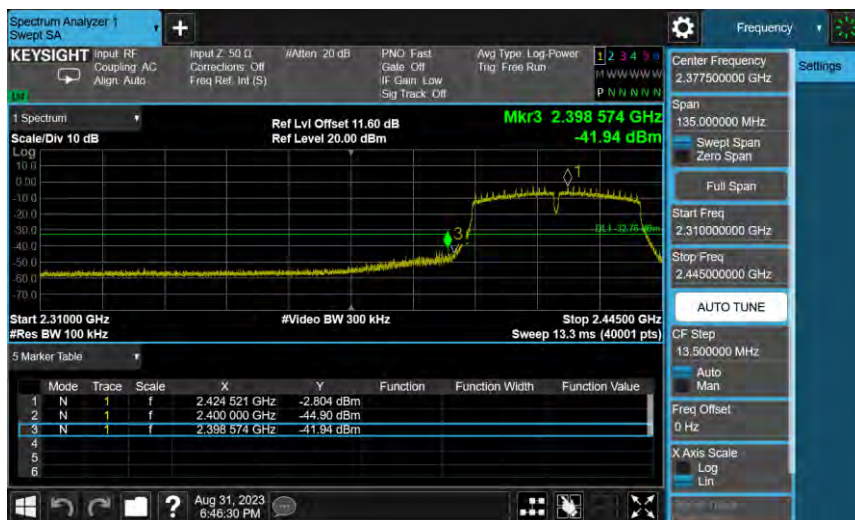


2462 MHz

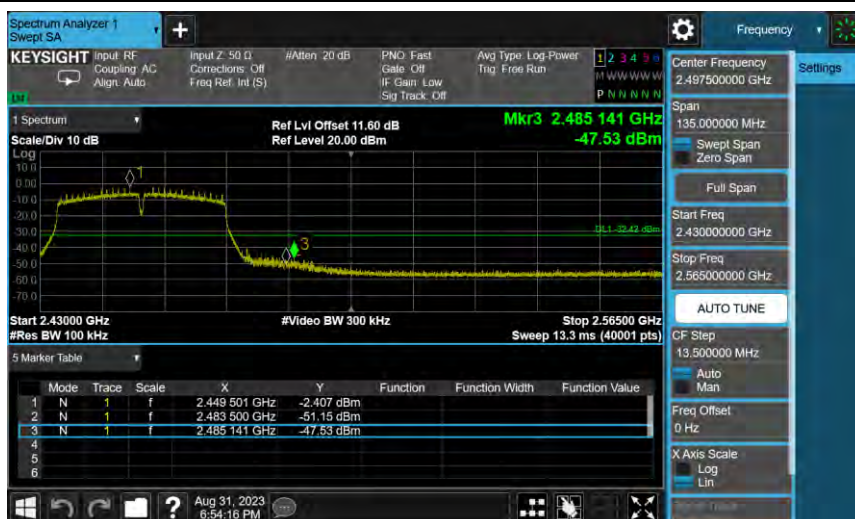


802.11n HT40_ANT-1

2422 MHz



2452 MHz



6 dB Bandwidth

802.11b_ANT-1	 2412 MHz
2437 MHz	 2437 MHz
2462 MHz	 2462 MHz

802.11g_ANT-1

2412 MHz

Center Frequency: 2.41200000 GHz
Span: 40.000 MHz
CF Step: 4.000000 MHz
Auto Man
Freq Offset: 0 Hz

1 Graph
Scale/Div 10.0 dB
Log
Ref Lvl Offset 11.60 dB
Ref Value 20.00 dBm

Center 2.41200 GHz
#Res BW 100.00 kHz
#Video BW 300.00 kHz
Span 40 MHz
Sweep 3.87 ms (1001 pts)

2 Metrics

Occupied Bandwidth		Total Power	
16.255 MHz		19.1 dBm	
Transmit Freq Error	16.299 kHz	% of OBW Power	99.00 %
x dB Bandwidth	15.14 MHz	x dB	-6.00 dB

Aug 31, 2023 6:31:11 PM

2437 MHz

Center Frequency: 2.43700000 GHz
Span: 40.000 MHz
CF Step: 4.000000 MHz
Auto Man
Freq Offset: 0 Hz

1 Graph
Scale/Div 10.0 dB
Log
Ref Lvl Offset 11.60 dB
Ref Value 20.00 dBm

Center 2.43700 GHz
#Res BW 100.00 kHz
#Video BW 300.00 kHz
Span 40 MHz
Sweep 3.87 ms (1001 pts)

2 Metrics

Occupied Bandwidth		Total Power	
16.247 MHz		19.9 dBm	
Transmit Freq Error	6.653 kHz	% of OBW Power	99.00 %
x dB Bandwidth	15.14 MHz	x dB	-6.00 dB

Aug 31, 2023 6:35:01 PM

2462 MHz

Center Frequency: 2.46200000 GHz
Span: 40.000 MHz
CF Step: 4.000000 MHz
Auto Man
Freq Offset: 0 Hz

1 Graph
Scale/Div 10.0 dB
Log
Ref Lvl Offset 11.60 dB
Ref Value 20.00 dBm

Center 2.46200 GHz
#Res BW 100.00 kHz
#Video BW 300.00 kHz
Span 40 MHz
Sweep 3.87 ms (1001 pts)

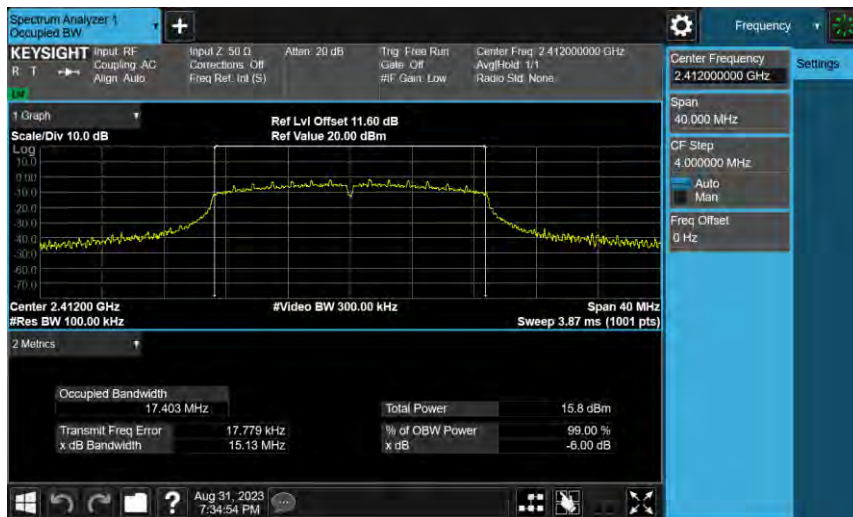
2 Metrics

Occupied Bandwidth		Total Power	
16.248 MHz		20.1 dBm	
Transmit Freq Error	6.990 kHz	% of OBW Power	99.00 %
x dB Bandwidth	15.14 MHz	x dB	-6.00 dB

Aug 31, 2023 6:37:55 PM

802.11n HT20_ANT-0

2412 MHz

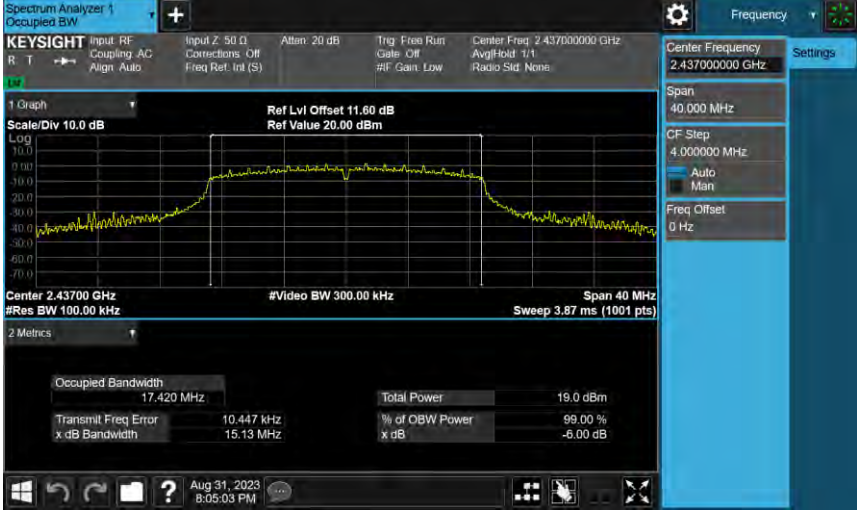


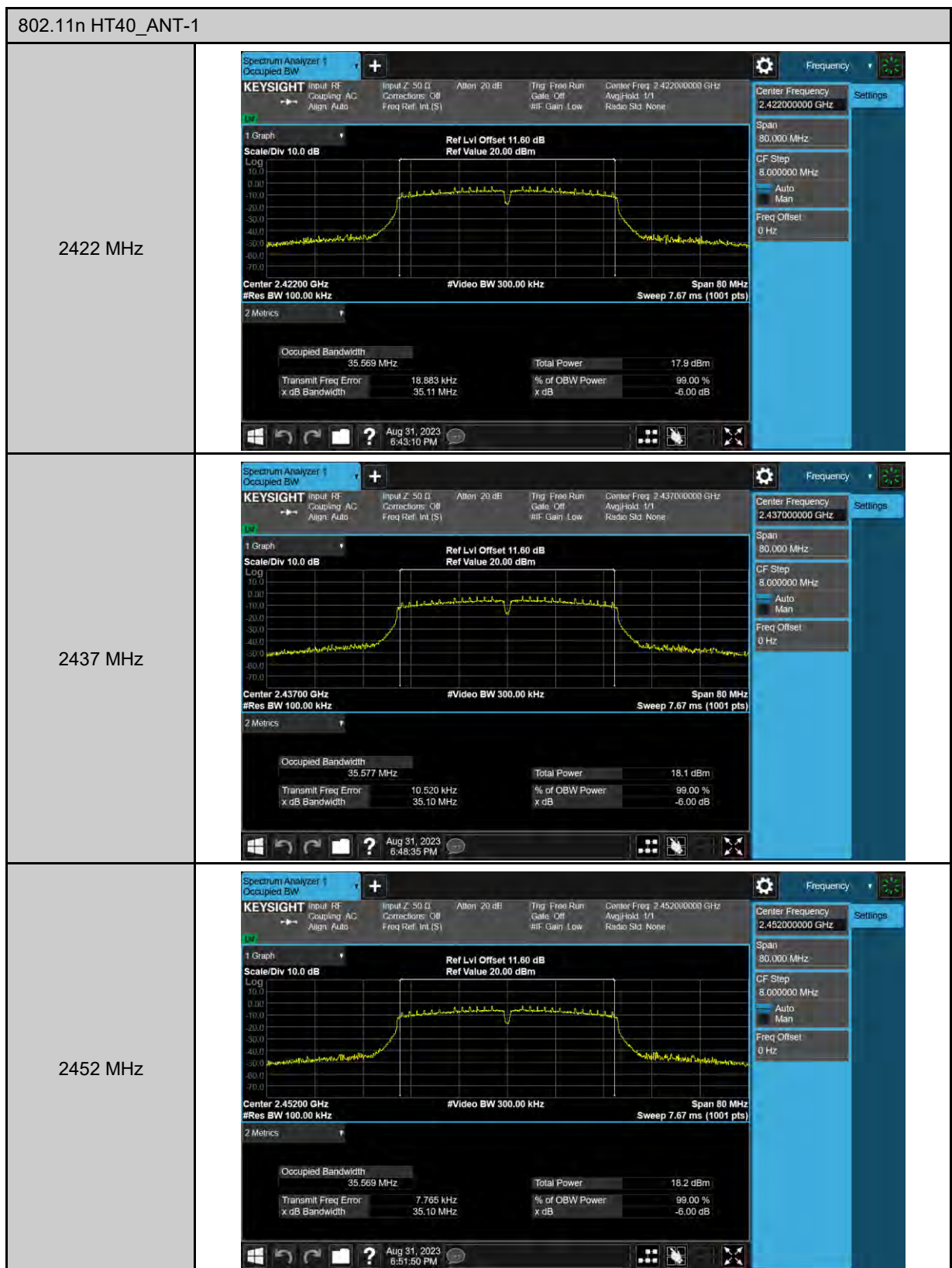
2437 MHz



2462 MHz

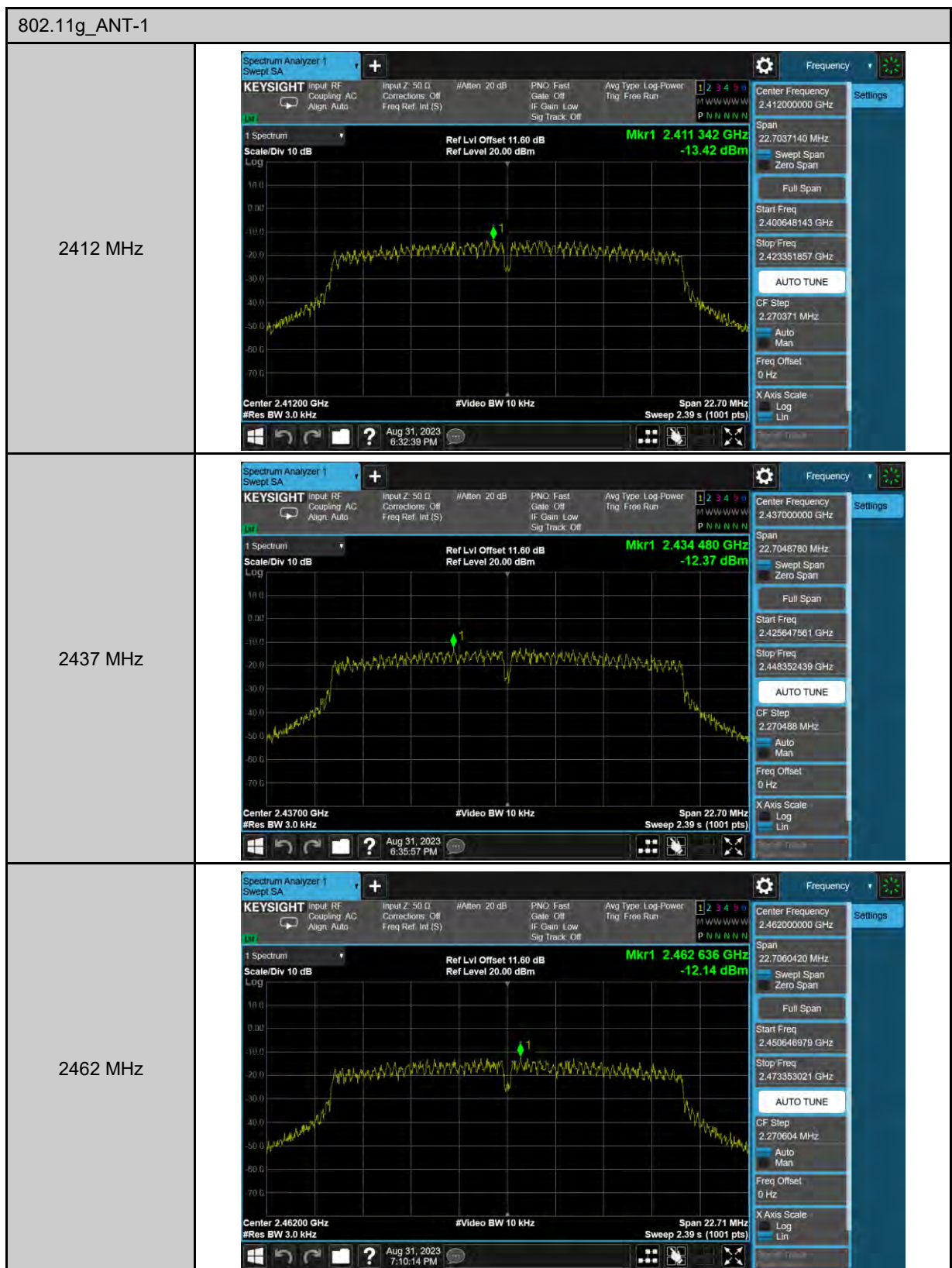


802.11n HT20_ANT-1 2412 MHz	
2437 MHz	
2462 MHz	



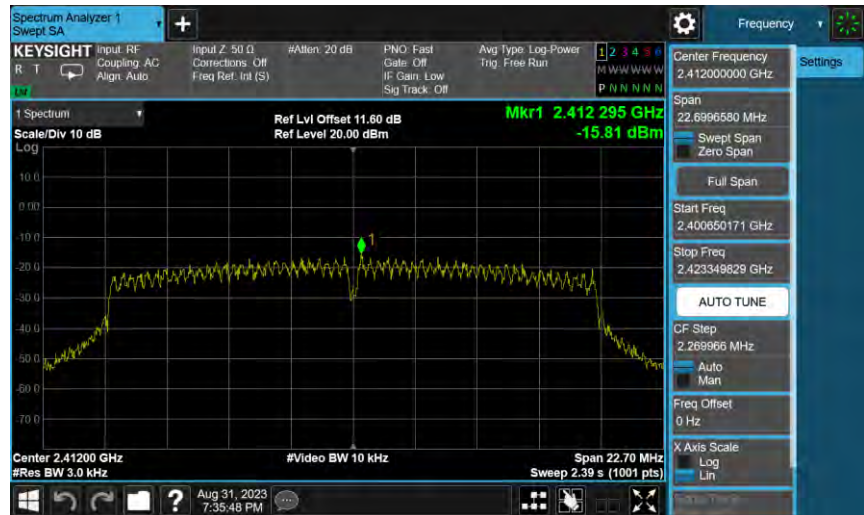
Maximum Power Spectral Density

802.11b_ANT-1 2412 MHz	
2437 MHz	
2462 MHz	

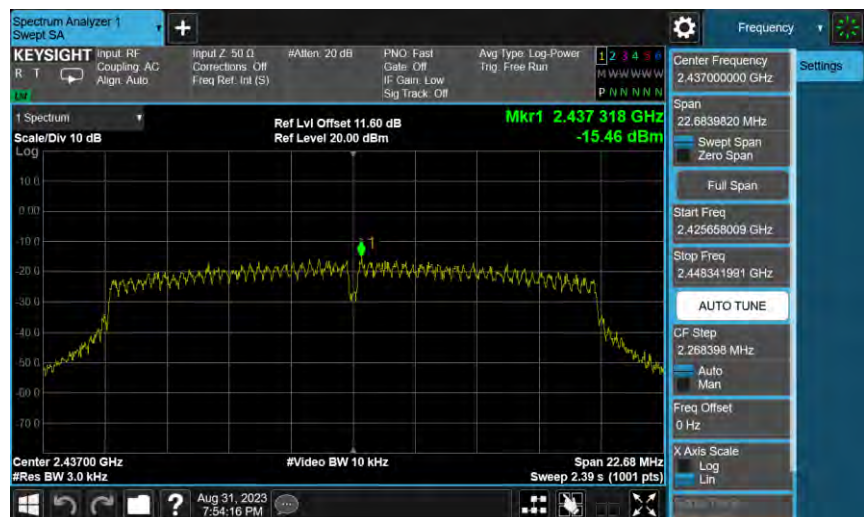


802.11n HT20_ANT-0

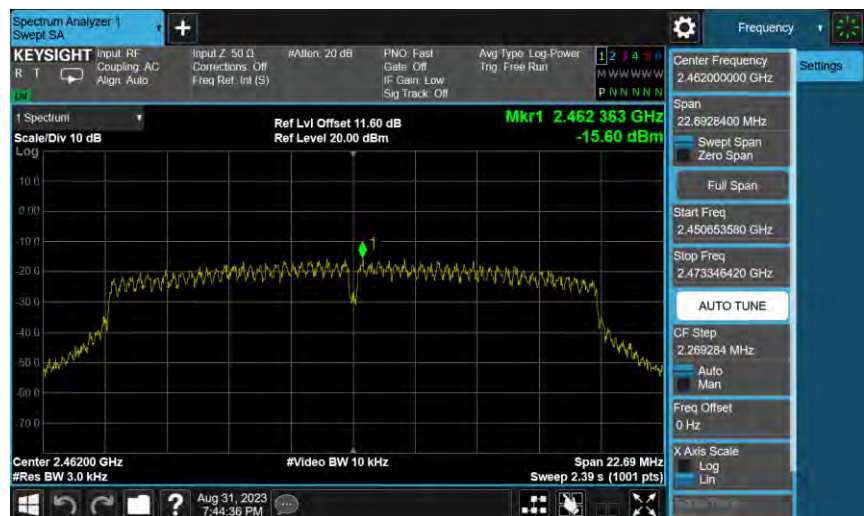
2412 MHz



2437 MHz

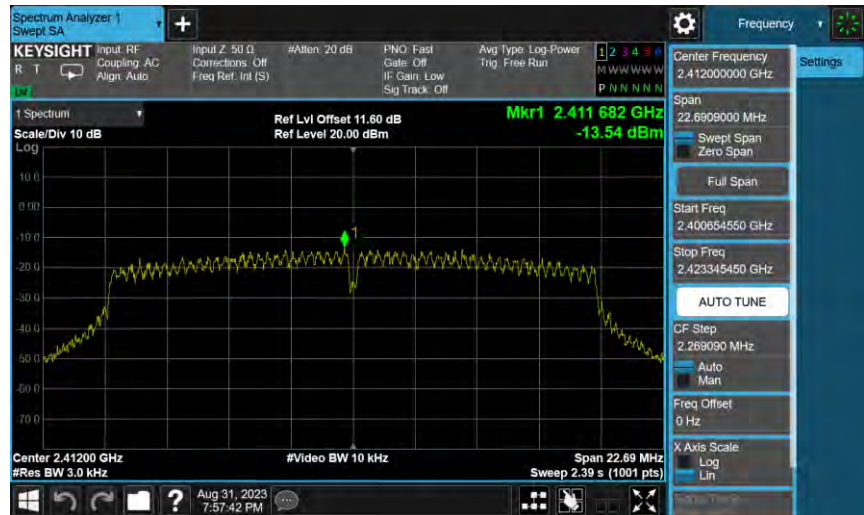


2462 MHz

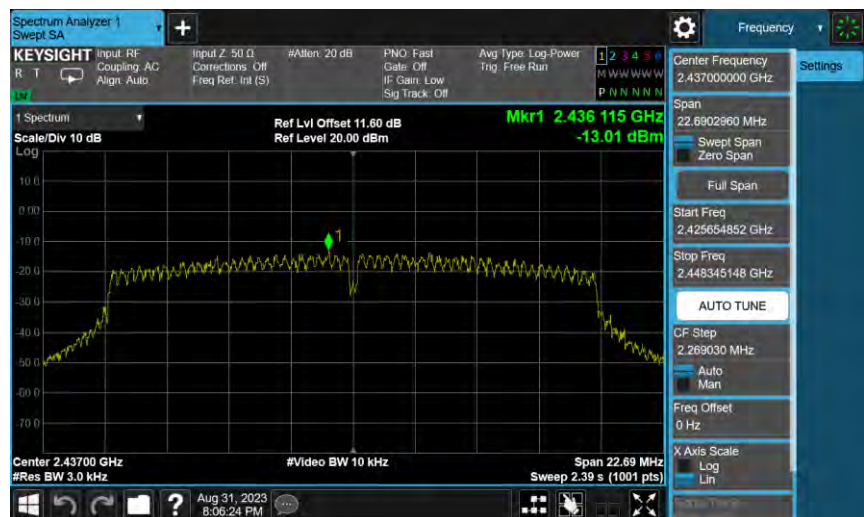


802.11n HT20_ANT-1

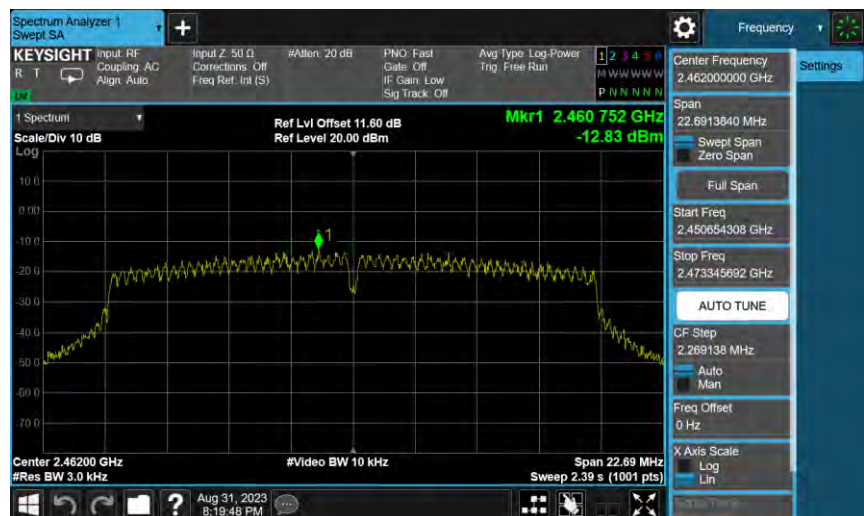
2412 MHz



2437 MHz

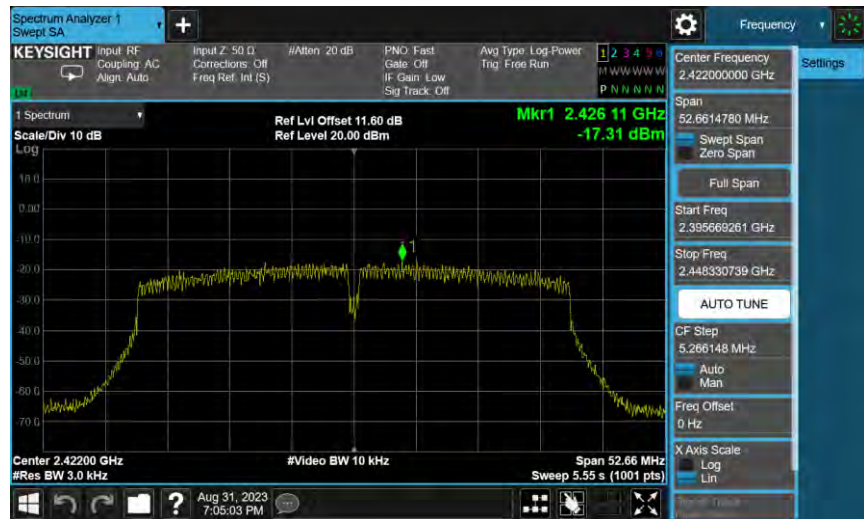


2462 MHz

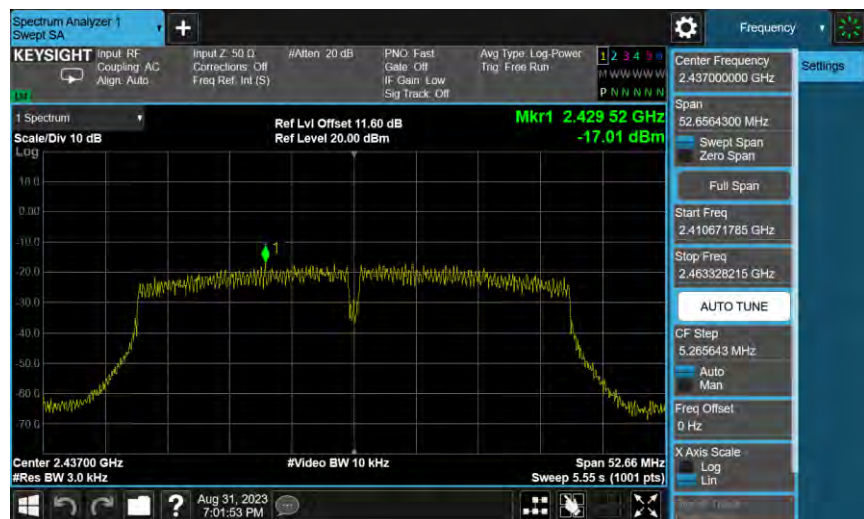


802.11n HT40_ANT-1

2422 MHz



2437 MHz



2452 MHz

