

n77(3700~3980 MHz)_30 M_Band Edge_High_BPSK_FullRB(2)



n77(3700~3980 MHz)_30 M_Band Edge_High_BPSK_1RB(2)



n77(3700~3980 MHz)_30 M_Band Edge_High_BPSK_FullRB(3)



n77(3700~3980 MHz)_30 M_Band Edge_High_BPSK_1RB(3)



n77(3700~3980 MHz)_40 M_Band Edge_Low_BPSK_FullRB(1)



n77(3700~3980 MHz)_40 M_Band Edge_Low_BPSK_1RB(1)



n77(3700~3980 MHz)_40 M_Band Edge_Low_BPSK_FullIRB(2)



n77(3700~3980 MHz)_40 M_Band Edge_Low_BPSK_1RB(2)



n77(3700~3980 MHz)_40 M_Band Edge_Low_BPSK_FullIRB(3)



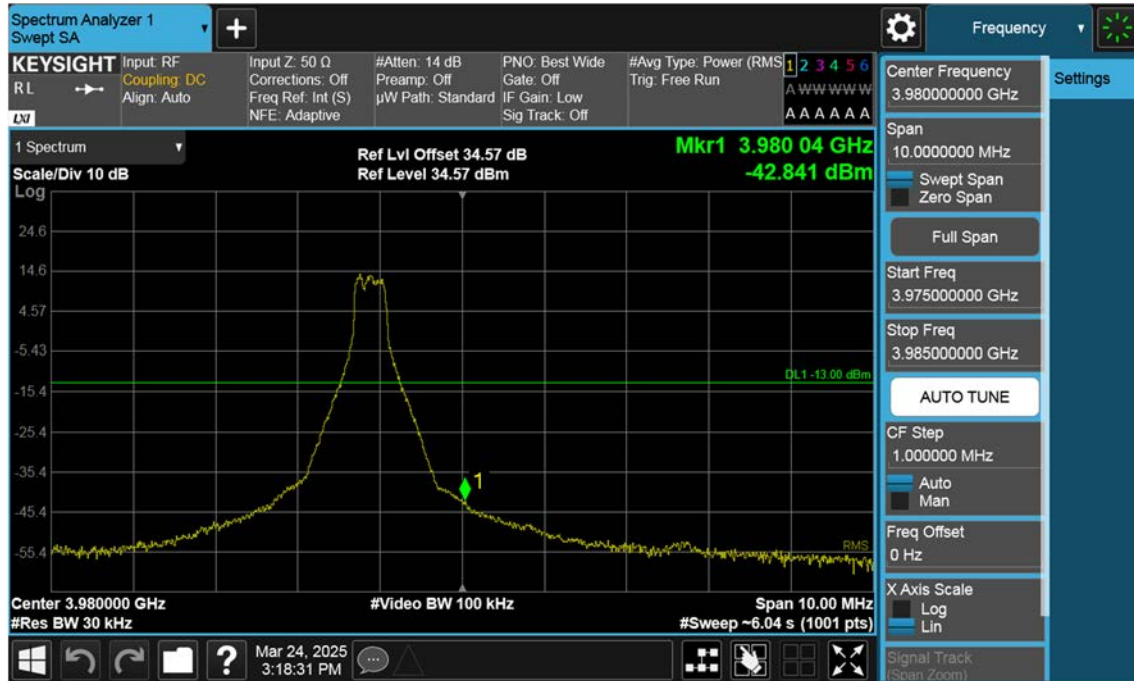
n77(3700~3980 MHz)_40 M_Band Edge_Low_BPSK_1RB(3)



n77(3700~3980 MHz)_40 M_Band Edge_High_BPSK_FullRB(1)



n77(3700~3980 MHz)_40 M_Band Edge_High_BPSK_1RB(1)



n77(3700~3980 MHz)_40 M_Band Edge_High_BPSK_FullRB(2)



n77(3700~3980 MHz)_40 M_Band Edge_High_BPSK_1RB(2)



n77(3700~3980 MHz)_40 M_Band Edge_High_BPSK_FullRB(3)



The screenshot displays a Spectrum Analyzer interface with the following details:

- Title Bar:** Spectrum Analyzer 1, Swept SA.
- Top Panel:**
 - Input: RF, Coupling: DC, Align: Auto.
 - Input Z: 50 Ω , Corrections: Off, Freq Ref: Int (S), NFE: Adaptive.
 - #Atten: 14 dB, Preamp: Off, μ W Path: Standard.
 - PNO: Fast Gate: Off, IF Gain: Low, Sig Track: Off.
 - #Avg Type: Power (RMS), Trng: Free Run.
 - Frequency: 3.99788 GHz (displayed in green).
- Center Panel:**
 - 1 Spectrum (selected).
 - Scale/Div 10 dB, Log.
 - Ref Lvl Offset 34.57 dB, Ref Level 34.57 dBm.
 - Peak marker: Mkr1 3.99788 GHz, -29.903 dBm.
 - Grid lines: 24.6, 14.6, 4.57, -15.4, -25.4, -35.4, -45.4, -55.4.
 - Signal trace: Yellow line with a peak at 3.99788 GHz.
 - Reference line: DL1 -13.00 dBm.
- Bottom Panel:**
 - Start 3.98500 GHz, #Res BW 1.0 MHz.
 - #Video BW 3.0 MHz.
 - Stop 4.10000 GHz, #Sweep 6.00 s (1001 pts).
- Right Panel (Settings):**
 - Center Frequency: 4.04250000 GHz.
 - Span: 115.000000 MHz.
 - Swept Span (checked), Zero Span (unchecked).
 - Full Span (button).
 - Start Freq: 3.98500000 GHz.
 - Stop Freq: 4.10000000 GHz.
 - AUTO TUNE (button).
 - CF Step: 11.500000 MHz.
 - Auto (checked), Man (unchecked).
 - Freq Offset: 0 Hz.
 - X Axis Scale: Log (checked), Lin (unchecked).
 - Signal Track (Span Zoom).

n77(3700~3980 MHz)_50 M_Band Edge_Low_BPSK_FullRB(1)



n77(3700~3980 MHz)_50 M_Band Edge_Low_BPSK_1RB(1)



n77(3700~3980 MHz)_50 M_Band Edge_Low_BPSK_FullRB(2)



n77(3700~3980 MHz)_50 M_Band Edge_Low_BPSK_1RB(2)



n77(3700~3980 MHz)_50 M_Band Edge_Low_BPSK_FullRB(3)



n77(3700~3980 MHz)_50 M_Band Edge_Low_BPSK_1RB(3)



Keysight Spectrum Analyzer 1
Swept SA

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive

#Atten: 14 dB
Preamp: Off
μW Path: Standard

PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off

#Avg Type: Power (RMS)
Trig: Free Run

1 2 3 4 5 6
A WWW WWW
A A A A A A

Center Frequency
3.98000000 GHz

Span
10.000000 MHz

Swept Span
Zero Span

Full Span

Start Freq
3.97500000 GHz

Stop Freq
3.98500000 GHz

AUTO TUNE

CF Step
1.000000 MHz

Auto
Man

Freq Offset
0 Hz

X Axis Scale
Log
Lin

Signal Track
(Span, Zoom)

1 Spectrum
Scale/Div 10 dB
Log

Ref Lvl Offset 34.57 dB
Ref Level 34.57 dBm

Mkr1 3.98218 GHz
-25.911 dBm

DL1 -13.00 dBm

RMS

Center 3.980000 GHz
#Res BW 360 kHz

#Video BW 1.2 MHz

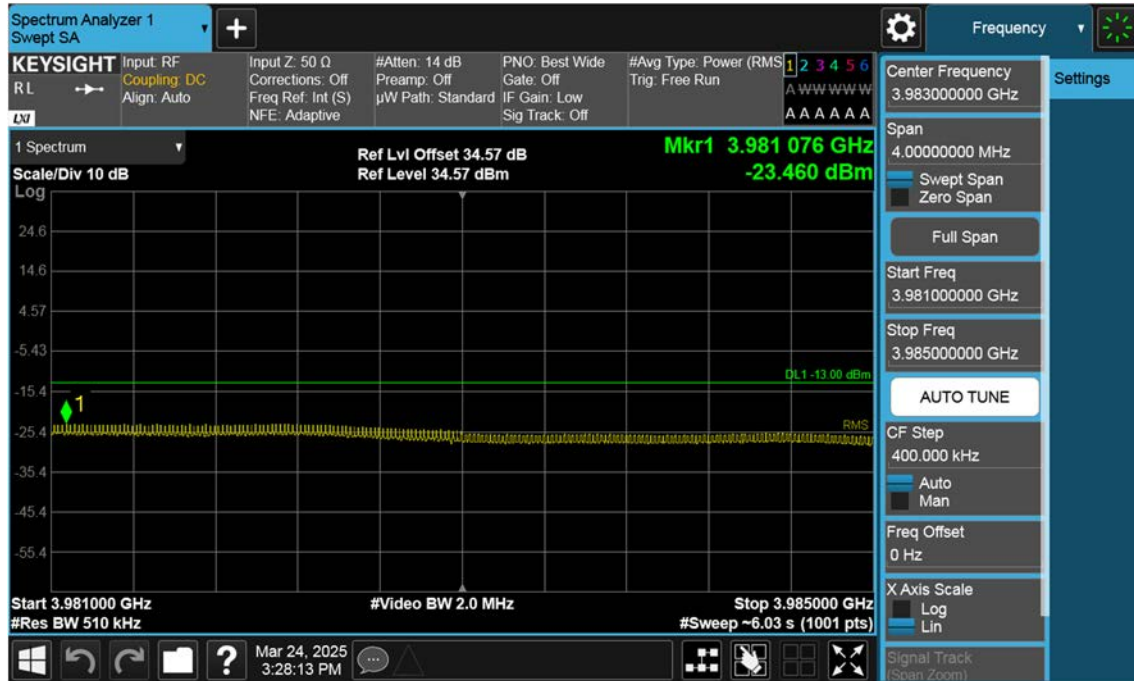
Span 10.00 MHz
#Sweep ~6.04 s (1001 pts)

Mar 24, 2025
3:27:46 PM

n77(3700~3980 MHz)_50 M_Band Edge_High_BPSK_1RB(1)



n77(3700~3980 MHz)_50 M_Band Edge_High_BPSK_FullRB(2)



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n77(3700~3980 MHz)_50 M_Band Edge_High_BPSK_FullRB(3)



n77(3700~3980 MHz)_50 M_Band Edge_High_BPSK_1RB(3)



n77(3700~3980 MHz)_60 M_Band Edge_Low_BPSK_FullRB(1)



n77(3700~3980 MHz)_60 M_Band Edge_Low_BPSK_1RB(1)



n77(3700~3980 MHz)_60 M_Band Edge_Low_BPSK_FullRB(2)



n77(3700~3980 MHz)_60 M_Band Edge_Low_BPSK_1RB(2)



n77(3700~3980 MHz)_60 M_Band Edge_Low_BPSK_FullIRB(3)



Keysight Spectrum Analyzer 1
Swept SA

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
NFE: Adaptive

#Atten: 14 dB
Preamp: Off
 μ W Path: Standard

PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

#Avg Type: Power (RMS)
Trig: Free Run

Center Frequency: 3.597500000 GHz

Span: 195.000000 MHz

Start Freq: 3.500000000 GHz

Stop Freq: 3.695000000 GHz

AUTO TUNE

CF Step: 19.500000 MHz

Freq Offset: 0 Hz

X Axis Scale: Log

Signal Track: (Span, Zoom)

1 Spectrum
Scale/Div: 10 dB
Log

Ref Lvl Offset: 34.57 dB
Ref Level: 34.57 dBm

Mkr1: 3.671 990 GHz
-22.405 dBm

DL1: -13.00 dBm

Start: 3.500000 GHz
#Res: 1.0 MHz

#Video BW: 3.0 MHz

Stop: 3.69500 GHz
#Sweep: 6.00 s (1001 pts)

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF Coupling: DC Align: Auto
 Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive
 #Atten: 14 dB Preamp: Off μW Path: Standard PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off
 #Avg Type: Power (RMS) Trig: Free Run

Center Frequency: 3.98000000 GHz
 Span: 10.000000 MHz
 Swept Span
 Zero Span
 Full Span
 Start Freq: 3.97500000 GHz
 Stop Freq: 3.98500000 GHz
 AUTO TUNE
 CF Step: 1.000000 MHz
 Auto
 Man
 Freq Offset: 0 Hz
 X Axis Scale: Log
 Lin
 Signal Track (Span Zoom)

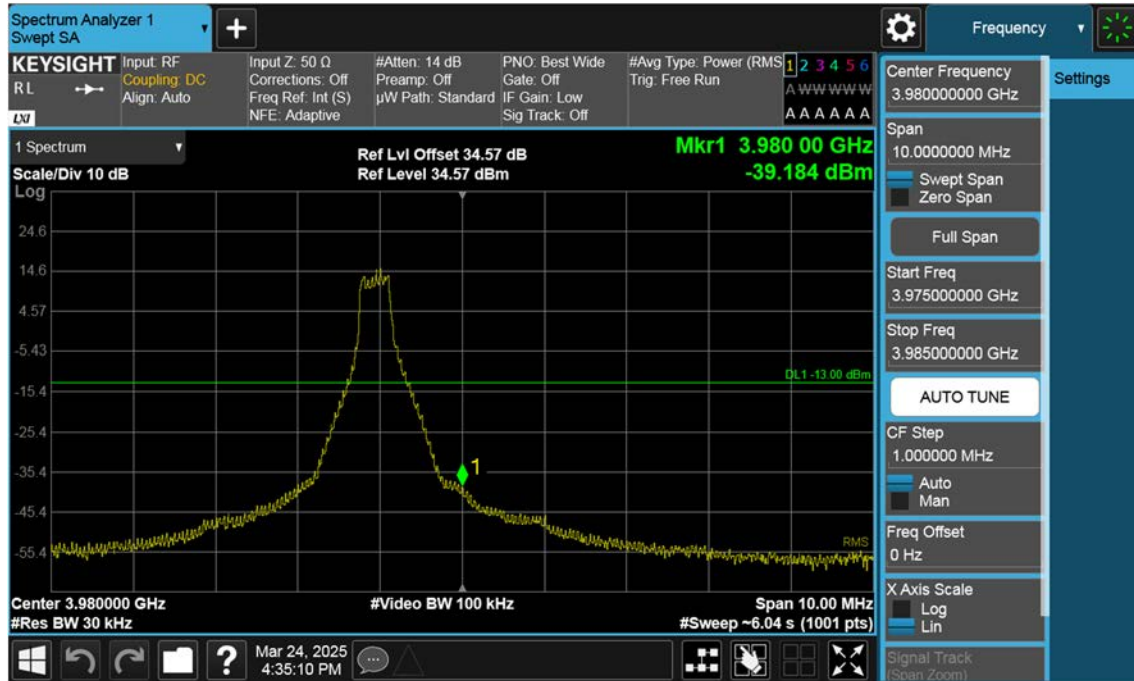
1 Spectrum
 Scale/Div 10 dB
 Log

Ref Lvl Offset 34.57 dB
 Ref Level 34.57 dBm

Mkr1 3.980 03 GHz
 -20.265 dBm

Center 3.980000 GHz
 #Res BW 360 kHz
 #Video BW 1.2 MHz
 Span 10.00 MHz
 #Sweep ~6.04 s (1001 pts)

n77(3700~3980 MHz)_60 M_Band Edge_High_BPSK_1RB(1)



n77(3700~3980 MHz)_60 M_Band Edge_High_BPSK_FullRB(2)



Keysight Spectrum Analyzer 1
Swept SA

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corrections: Off
Freq Ref. Int (S):
NFE: Adaptive

#Atten: 14 dB
Preamp: Off
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off

#Avg Type: Power (RMS)
Trig: Free Run

Marker List: 1 2 3 4 5 6
A A A A A A

1 Spectrum
Scale/Div: 10 dB
Log

Ref Lvl Offset: 34.57 dB
Ref Level: 34.57 dBm

Mkr1: 3.981 016 GHz
-36.066 dBm

DL1: -13.00 dBm

Start: 3.981000 GHz
#Res BW: 510 kHz

#Video BW: 2.0 MHz

Stop: 3.985000 GHz
#Sweep: ~6.03 s (1001 pts)

Center Frequency: 3.983000000 GHz

Span: 4.00000000 MHz

Sweep Span: ☒ Swept Span
☐ Zero Span

Full Span

Start Freq: 3.981000000 GHz

Stop Freq: 3.985000000 GHz

AUTO TUNE

CF Step: 400.000 kHz

Auto Man: ☒ Auto ☐ Man

Freq Offset: 0 Hz

X Axis Scale: ☒ Log ☐ Lin

Signal Track: ☒ Span ☐ Zoom

n77(3700~3980 MHz)_60 M_Band Edge_High_BPSK_FullRB(3)



n77(3700~3980 MHz)_60 M_Band Edge_High_BPSK_1RB(3)



n77(3700~3980 MHz)_70 M_Band Edge_Low_BPSK_FullRB(1)



The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a spectrum plot with a peak labeled 'Mkr1 3.699 936 GHz' and a power level of '-42.118 dBm'. The plot is set to a scale of 10 dB and a resolution bandwidth (RBW) of 100 kHz. The center frequency is 3.700000 GHz. The plot shows a signal with a peak at 3.699 GHz and a noise floor around -55.4 dBm. The interface includes various control panels for input, settings, and measurement parameters.

Parameter	Value
Center Frequency	3.700000000 GHz
Span	4.000000000 MHz
Start Freq	3.698000000 GHz
Stop Freq	3.702000000 GHz
CF Step	400.000 kHz
Freq Offset	0 Hz
Center Frequency	3.700000000 GHz
Span	4.000 MHz
Ref Lvl Offset	34.57 dB
Ref Level	34.57 dBm
Video BW	100 kHz
Span	4.000 MHz
#Sweep	~6.03 s (1001 pts)

n77(3700~3980 MHz)_70 M_Band Edge_Low_BPSK_FullRB(2)



n77(3700~3980 MHz)_70 M_Band Edge_Low_BPSK_1RB(2)



n77(3700~3980 MHz)_70 M_Band Edge_Low_BPSK_FullRB(3)



Keysight Spectrum Analyzer 1
Swept SA

Input RF: Coupling: DC, Align: Auto
Input Z: 50 Ω
 Corrections: Off
 Freq Ref: Int (S)
 NFE: Adaptive

#Atten: 14 dB
 Preamp: Off
 μW Path: Standard

PNO: Fast Gate: Off
 IF Gain: Low
 Sig Track: Off

#Avg Type: Power (RMS)
 Trig: Free Run

Center Frequency: 3.597500000 GHz
Span: 195.000000 MHz
☒ Swept Span
☐ Zero Span
Full Span

Start Freq: 3.500000000 GHz
Stop Freq: 3.695000000 GHz
AUTO TUNE

CF Step: 19.500000 MHz
☒ Auto
☐ Man

Freq Offset: 0 Hz

X Axis Scale:
☐ Log
☒ Lin

Signal Track: (Span, Zoom)

1 Spectrum
Scale/Div 10 dB
Log

Ref Lvl Offset 34.57 dB
Ref Level 34.57 dBm

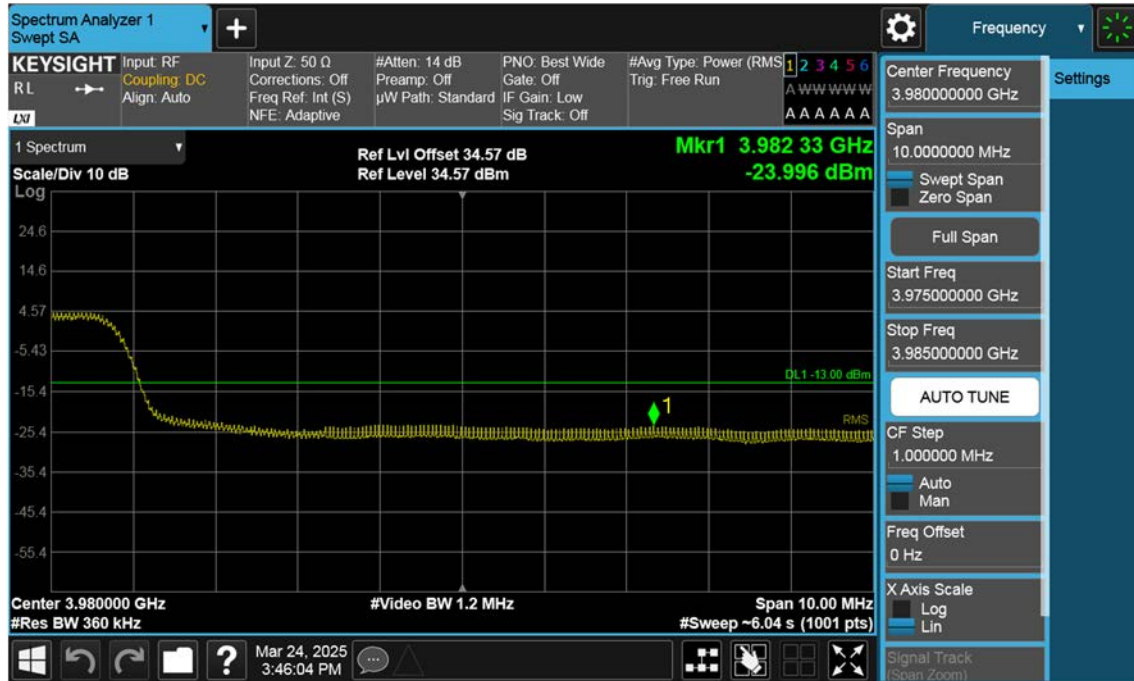
Mkr1 3.667 115 GHz
-21.528 dBm

DL1 -13.00 dBm

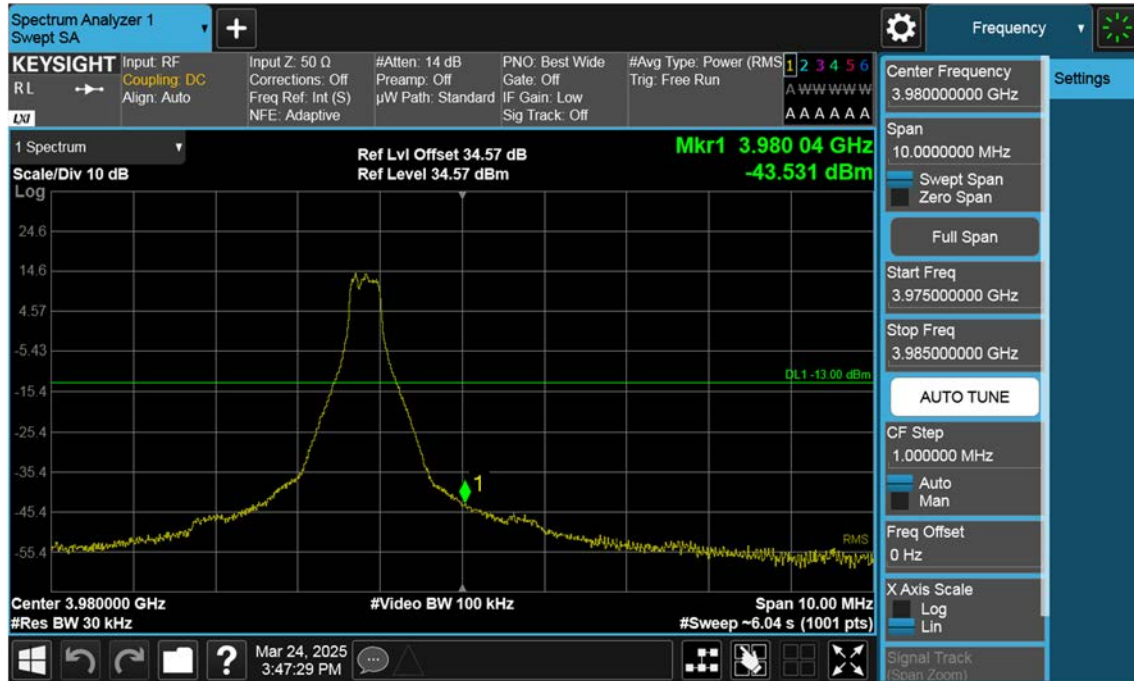
Start 3.500000 GHz
#Res BW 1.0 MHz

#Video BW 3.0 MHz
Stop 3.695000 GHz
#Sweep 6.00 s (1001 pts)

n77(3700~3980 MHz)_70 M_Band Edge_High_BPSK_FullRB(1)



n77(3700~3980 MHz)_70 M_Band Edge_High_BPSK_1RB(1)



n77(3700~3980 MHz)_70 M_Band Edge_High_BPSK_FullRB(2)



n77(3700~3980 MHz)_70 M_Band Edge_High_BPSK_1RB(2)



n77(3700~3980 MHz)_70 M_Band Edge_High_BPSK_FullRB(3)



n77(3700~3980 MHz)_70 M_Band Edge_High_BPSK_1RB(3)



n77(3700~3980 MHz)_80 M_Band Edge_Low_BPSK_FullRB(1)



n77(3700~3980 MHz)_80 M_Band Edge_Low_BPSK_1RB(1)



n77(3700~3980 MHz)_80 M_Band Edge_Low_BPSK_FullRB(2)



n77(3700~3980 MHz)_80 M_Band Edge_Low_BPSK_1RB(2)



n77(3700~3980 MHz)_80 M_Band Edge_Low_BPSK_FullIRB(3)



n77(3700~3980 MHz)_80 M_Band Edge_Low_BPSK_1RB(3)



n77(3700~3980 MHz)_80 M_Band Edge_High_BPSK_FullRB(1)



n77(3700~3980 MHz)_80 M_Band Edge_High_BPSK_1RB(1)



n77(3700~3980 MHz)_80 M_Band Edge_High_BPSK_FullRB(2)



n77(3700~3980 MHz)_80 M_Band Edge_High_BPSK_1RB(2)



n77(3700~3980 MHz)_80 M_Band Edge_High_BPSK_FullRB(3)



n77(3700~3980 MHz)_80 M_Band Edge_High_BPSK_1RB(3)



The screenshot displays a Spectrum Analyzer interface with the following components:

- Top Bar:** Includes a "Spectrum Analyzer 1" title, a "Swept SA" mode indicator, a "+" button, and a "Frequency" dropdown menu.
- Input/Settings Section:**
 - Input:** RF, Coupling: DC, Align: Auto.
 - Input Z:** 50 Ω , Corrections: Off, Freq Ref: Int (S), NFE: Adaptive.
 - Attenuation:** #Atten: 14 dB, Preamp: Off, μ W Path: Standard.
 - Filters:** PNO: Best Wide, Gate: Off, IF Gain: Low, Sig Track: Off.
 - Measurement:** #Avg Type: Power (RMS), Trig: Free Run.
 - Frequency Range:** 1 2 3 4 5 6, A WWW WWW W, A A A A A A A.
- Center Frequency:** 3.700000000 GHz.
- Span:** 4.00000000 MHz, with options for Swept Span and Zero Span.
- Full Span:** A button to expand the span.
- Start Freq:** 3.698000000 GHz.
- Stop Freq:** 3.702000000 GHz.
- AUTO TUNE:** A button to auto-tune the center frequency.
- CF Step:** 400.000 kHz, with Auto and Man (Manual) options.
- Freq Offset:** 0 Hz.
- X Axis Scale:** Log and Lin options.
- Signal Track:** (Span Zoom).

Main Display Area:

- 1 Spectrum:** A dropdown menu.
- Scale/Div 10 dB:** A dropdown menu.
- Log:** A checkbox.
- Ref Lvl Offset 34.57 dB** and **Ref Level 34.57 dBm**.
- Mkr1 3.699 960 GHz** and **-23.316 dBm**.
- DL1 -13.00 dBm**.
- Center 3.700000 GHz** and **#Video BW 1.2 MHz**.
- Span 4.000 MHz** and **#Sweep ~6.03 s (1001 pts)**.

The main display shows a spectrum plot with a yellow trace. A green horizontal line is at -13.00 dBm. A yellow peak is labeled "1".

n77(3700~3980 MHz)_90 M_Band Edge_Low_BPSK_1RB(1)



n77(3700~3980 MHz)_90 M_Band Edge_Low_BPSK_FullRB(2)



n77(3700~3980 MHz)_90 M_Band Edge_Low_BPSK_1RB(2)



n77(3700~3980 MHz)_90 M_Band Edge_Low_BPSK_FullRB(3)

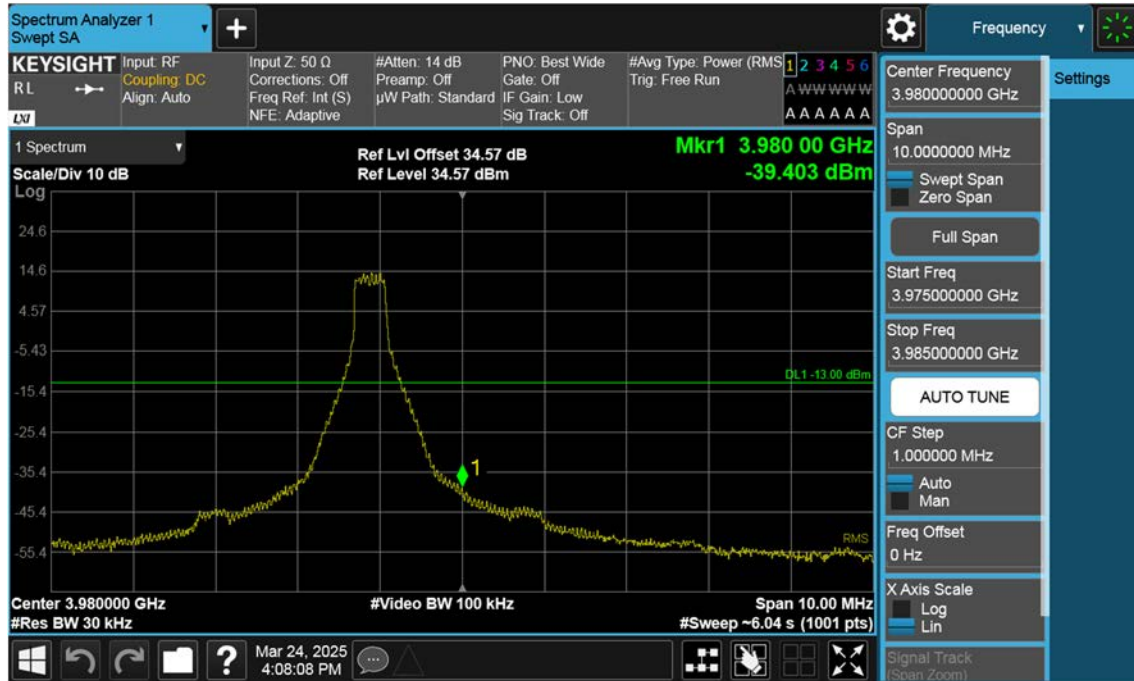


n77(3700~3980 MHz)_90 M_Band Edge_Low_BPSK_1RB(3)



The screenshot displays the Keysight Spectrum Analyzer interface. The main display shows a spectrum plot with a signal trace. The plot is titled "1 Spectrum" and has a "Scale/Div 10 dB" setting. The frequency range is from 3.980000 GHz to 3.985000000 GHz, with a center frequency of 3.980090 GHz. The signal level is 34.57 dBm, with a reference level of 34.57 dBm and a noise floor of -24.329 dBm. The plot shows a signal trace with a peak labeled "1" at approximately 3.980090 GHz. The signal is identified as "Mkr1 3.980 09 GHz -24.329 dBm". The plot also shows a reference level of 34.57 dBm and a noise floor of -24.329 dBm. The plot is titled "1 Spectrum" and has a "Scale/Div 10 dB" setting. The frequency range is from 3.980000 GHz to 3.985000000 GHz, with a center frequency of 3.980090 GHz. The signal level is 34.57 dBm, with a reference level of 34.57 dBm and a noise floor of -24.329 dBm. The plot shows a signal trace with a peak labeled "1" at approximately 3.980090 GHz. The signal is identified as "Mkr1 3.980 09 GHz -24.329 dBm". The plot also shows a reference level of 34.57 dBm and a noise floor of -24.329 dBm.

n77(3700~3980 MHz)_90 M_Band Edge_High_BPSK_1RB(1)



n77(3700~3980 MHz)_90 M_Band Edge_High_BPSK_FullRB(2)



n77(3700~3980 MHz)_90 M_Band Edge_High_BPSK_1RB(2)

