



n77(3450~3550 MHz)_40 M_Band Edge_High_BPSK_1RB(3)

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n77(3450~3550 MHz)_50 M_Band Edge_Low_BPSK_FullRB(1)

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Ö PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive #Avg Type Power (RMS 1 2 3 4 5 Trig: Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 3.450000000 GHz Settings Align Auto AAAAAA LNI Mkr1 3.449 996 GHz Ref LvI Offset 34.50 dB Ref Level 34.50 dBm 4.00000000 MHz -35.376 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 3.448000000 GHz Stop Freq 3.452000000 GHz 13.00 E AUTO TUNE CF Step 400.000 kHz Auto Man Freq Offset 0 Hz Local Span 4.000 MHz ep ∼1.01 s (1001 pts) Center 3.450000 GHz #Res BW 30 kHz #Video BW 100 kHz

n77(3450~3550 MHz)_50 M_Band Edge_Low_BPSK_1RB(1)

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n77(3450~3550 MHz)_50 M_Band Edge_Low_BPSK_FullRB(2)

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n77(3450~3550 MHz)_50 M_Band Edge_Low_BPSK_1RB(2)

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n77(3450~3550 MHz)_50 M_Band Edge_Low_BPSK_FullRB(3)

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n77(3450~3550 MHz)_50 M_Band Edge_Low_BPSK_1RB(3)

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Ö Frequency PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive #Avg Type Power (RMS 1 2 3 4 5 Trig: Free Run #Atten: 16 dB Preamp: Off KEYSIGHT Input: RF Center Frequency 3.550000000 GHz Settings Align Auto AAAAAA LNI Mkr1 3.550 04 GHz Ref LvI Offset 34.50 dB Ref Level 34.50 dBm 10.0000000 MHz -37.057 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 3.545000000 GHz Stop Freq 3.555000000 GHz DL1 13:00 dE AUTO TUNE CF Step 1.000000 MHz **1** Auto Man Freq Offset 0 Hz Local Span 10.00 MHz ~1.01 s (1001 pts) Center 3.550000 GHz #Res BW 200 kHz #Video BW 1.0 MHz ? Sep 19, 2024 ____

n77(3450~3550 MHz)_50 M_Band Edge_High_BPSK_FullRB(1)

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n77(3450~3550 MHz)_50 M_Band Edge_High_BPSK_1RB(1)

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n77(3450~3550 MHz)_50 M_Band Edge_High_BPSK_FullRB(2)

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n77(3450~3550 MHz)_50 M_Band Edge_High_BPSK_1RB(2)

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n77(3450~3550 MHz)_50 M_Band Edge_High_BPSK_FullRB(3)

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n77(3450~3550 MHz)_50 M_Band Edge_High_BPSK_1RB(3)

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n77(3450~3550 MHz)_60 M_Band Edge_Low_BPSK_FullRB(1)

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n77(3450~3550 MHz)_60 M_Band Edge_Low_BPSK_1RB(1)

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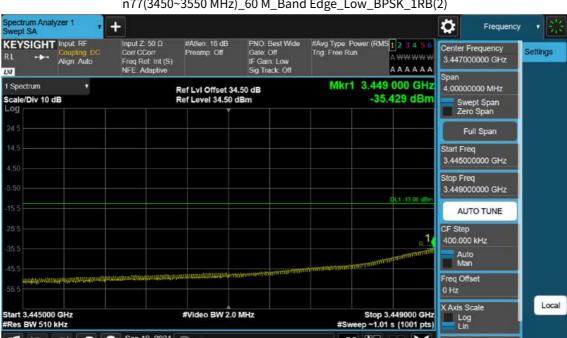




n77(3450~3550 MHz)_60 M_Band Edge_Low_BPSK_FullRB(2)

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n77(3450~3550 MHz)_60 M_Band Edge_Low_BPSK_1RB(2)

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n77(3450~3550 MHz)_60 M_Band Edge_Low_BPSK_FullRB(3)

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n77(3450~3550 MHz)_60 M_Band Edge_Low_BPSK_1RB(3)

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n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_FullRB(1)

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n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_1RB(1)

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n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_FullRB(2)

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n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_1RB(2)

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n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_FullRB(3)

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n77(3450~3550 MHz)_60 M_Band Edge_High_BPSK_1RB(3)

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n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_FullRB(1)

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n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_1RB(1)

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n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_FullRB(2)

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n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_1RB(2)

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n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_FullRB(3)

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n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_1RB(3)

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n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_FullRB(1)

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n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_1RB(1)

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n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_FullRB(2)

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n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_1RB(2)

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n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_FullRB(3)

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n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_1RB(3)

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n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_FullRB(1)

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n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_1RB(1)

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n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_FullRB(2)

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n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_1RB(2)

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n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_FullRB(3)

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n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_1RB(3)

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n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_FullRB(1)

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n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_1RB(1)

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n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_FullRB(2)

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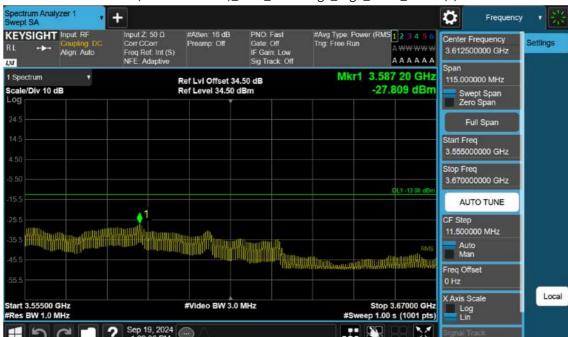




n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_1RB(2)

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n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_FullRB(3)

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n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_1RB(3)

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n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(1)

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n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(1)

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n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(2)

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n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(2)

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n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(3)

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n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(3)

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Ö Frequency PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive #Avg Type Power (RMS 1 2 3 4 5 Trig: Free Run #Atten: 16 dB Preamp: Off KEYSIGHT Input: RF Center Frequency 3.550000000 GHz Settings Align Auto AAAAAA L)(I Mkr1 3.550 17 GHz Ref LvI Offset 34.50 dB Ref Level 34.50 dBm 10.0000000 MHz -35.332 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 3,545000000 GHz Stop Freq 3.555000000 GHz DL1 13:00 dE AUTO TUNE CF Step 1.000000 MHz 1 Auto Man Freq Offset 0 Hz Local Span 10.00 MHz ep ∼1.01 s (1001 pts) Center 3.550000 GHz #Res BW 200 kHz #Video BW 1.0 MHz ?

n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(1)

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n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(1)

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n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(2)

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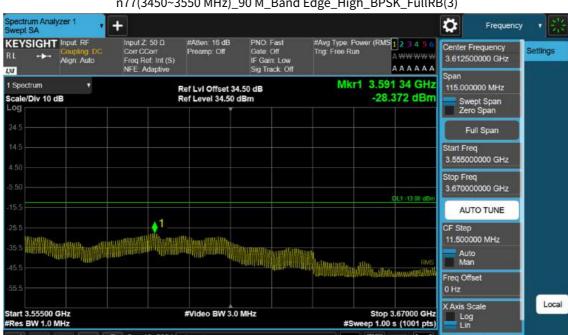




n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(2)

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n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(3)

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n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(3)

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Ö Frequency PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type Power (RMS 1 2 3 4 5 Trig: Free Run Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 3.450000000 GHz Settings Align Auto AAAAAA LNI Mkr1 3.449 988 GHz Ref LvI Offset 34.50 dB Ref Level 34.50 dBm 4.00000000 MHz -34.703 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 3.448000000 GHz Stop Freq 3.452000000 GHz DL1 13:00 dE AUTO TUNE CF Step 400.000 kHz 1 Auto Man Freq Offset 0 Hz Local Span 4.000 MHz ep ∼1.01 s (1001 pts) Center 3.450000 GHz #Res BW 200 kHz #Video BW 1.0 MHz ?

n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(1)

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Ö Frequency PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type Power (RMS 1 2 3 4 5 Trig: Free Run Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 3.450000000 GHz Settings Align Auto AAAAAA LNI Mkr1 3.449 996 GHz Ref LvI Offset 34.50 dB Ref Level 34.50 dBm 4.00000000 MHz -29.261 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq Phapathy to be 3.448000000 GHz Stop Freq 3.452000000 GHz AUTO TUNE CF Step 400.000 kHz Auto Man Freq Offset 0 Hz Local Span 4.000 MHz ep ∼1.01 s (1001 pts) Center 3.450000 GHz #Res BW 30 kHz #Video BW 100 kHz

n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(1)

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n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(2)

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?

Ö Frequency PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type Power (RMS 1 2 3 4 5 Trig: Free Run Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Settings Align Auto 3.447000000 GHz AAAAAA LNI Mkr1 3.448 984 GHz Ref LvI Offset 34.50 dB Ref Level 34.50 dBm 4.00000000 MHz -35.325 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 3.445000000 GHz Stop Freq 3.449000000 GHz DL1 -13 00 dB AUTO TUNE CF Step 400.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Start 3.445000 GHz #Res BW 510 kHz #Video BW 2.0 MHz Stop 3.449000 GHz #Sweep ~1.01 s (1001 pts)

n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(2)

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Ö Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type Power (RMS 1 2 3 4 5 Trig: Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 3.347500000 GHz Settings Align Auto AAAAAA L)(I Mkr1 3.405 610 GHz 195.000000 MHz Ref LvI Offset 34.50 dB Ref Level 34.50 dBm -33.296 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 3.250000000 GHz Stop Freq 3.445000000 GHz DL1 13:00 dE AUTO TUNE CF Step 19.500000 MHz Auto Man Freq Offset 0 Hz Local #Video BW 3.0 MHz Stop 3.44500 GHz #Sweep 1.00 s (1001 pts) Start 3.25000 GHz #Res BW 1.0 MHz ?

n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(3)

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n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(3)

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Ö Frequency PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive KEYSIGHT Input: RF #Atten: 16 dB Preamp: Off #Avg Type Power (RMS 1 2 3 4 5 Center Frequency 3.550000000 GHz Settings Align Auto AAAAAA L)(I Mkr1 3.552 23 GHz Ref LvI Offset 34.50 dB Ref Level 34.50 dBm 10.0000000 MHz -37.462 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 3,545000000 GHz Stop Freq 3.555000000 GHz DL1 13:00 dE AUTO TUNE CF Step 1.000000 MHz 1 Auto Man Freq Offset 0 Hz Local #Video BW 1.0 MHz Span 10.00 MHz ~1.01 s (1001 pts) Center 3.550000 GHz #Res BW 200 kHz ? Sep 19, 2024 ____

n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(1)

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n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(1)

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Ö Frequency PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type Power (RMS 1 2 3 4 5 Trig: Free Run Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive KEYSIGHT Input: RF #Atten: 16 dB Preamp: Off Center Frequency 3.553000000 GHz Settings Align Auto AAAAAA LNI Mkr1 3.552 120 GHz Ref LvI Offset 34.50 dB Ref Level 34.50 dBm 4.00000000 MHz -33.317 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 3,551000000 GHz Stop Freq 3.555000000 GHz DL1 13.00 dE AUTO TUNE CF Step 400.000 kHz Auto Man Freq Offset 0 Hz Local Stop 3.555000 GHz #Sweep ~1.01 s (1001 pts) Start 3.551000 GHz #Res BW 510 kHz #Video BW 2.0 MHz

? Sep 19, 2024 ____

n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(2)

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n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(2)

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n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(3) Ö Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type Power (RMS 1 2 3 4 5 Trig: Free Run #Atten: 16 dB Preamp: Off KEYSIGHT Input: RF Settings Align Auto 3.612500000 GHz AAAAAA L)(I Mkr1 3.595 71 GHz 115.000000 MHz Ref LvI Offset 34.50 dB Ref Level 34.50 dBm -27.379 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 3.555000000 GHz Stop Freq 3.670000000 GHz DL1 13:00 dE AUTO TUNE CF Step 11.500000 MHz Auto Man Freq Offset 0 Hz Local Stop 3.67000 GHz #Sweep 1.00 s (1001 pts) #Video BW 3.0 MHz Start 3.55500 GHz #Res BW 1.0 MHz

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n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(3)

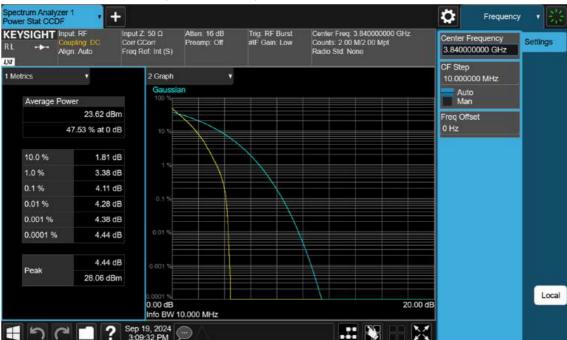
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11. TEST PLOTS(3700 MHz - 3980 MHz)

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n77(3700~3980 MHz)_10 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_10 M_PAR_Mid_QPSK_FullRB

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n77(3700~3980 MHz)_10 M_PAR_Mid_16QAM_FullRB

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n77(3700~3980 MHz)_10 M_PAR_Mid_64QAM_FullRB

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n77(3700~3980 MHz)_10 M_PAR_Mid_256QAM_FullRB

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n77(3700~3980 MHz)_15 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_15 M_PAR_Mid_QPSK_FullRB

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n77(3700~3980 MHz)_15 M_PAR_Mid_16QAM_FullRB

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n77(3700~3980 MHz)_15 M_PAR_Mid_64QAM_FullRB

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n77(3700~3980 MHz)_15 M_PAR_Mid_256QAM_FullRB

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n77(3700~3980 MHz)_20 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_20 M_PAR_Mid_QPSK_FullRB

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n77(3700~3980 MHz)_20 M_PAR_Mid_16QAM_FullRB

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n77(3700~3980 MHz)_20 M_PAR_Mid_64QAM_FullRB

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n77(3700~3980 MHz)_20 M_PAR_Mid_256QAM_FullRB

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n77(3700~3980 MHz)_30 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_30 M_PAR_Mid_QPSK_FullRB

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n77(3700~3980 MHz)_30 M_PAR_Mid_16QAM_FullRB

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n77(3700~3980 MHz)_30 M_PAR_Mid_64QAM_FullRB

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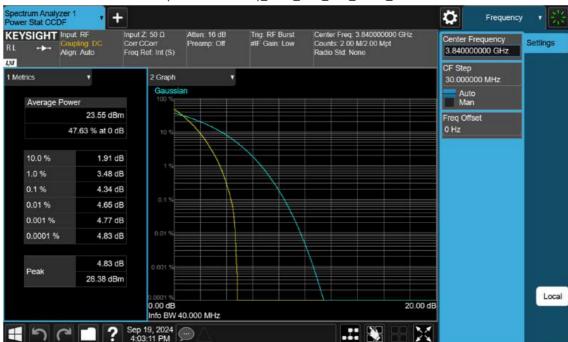




n77(3700~3980 MHz)_30 M_PAR_Mid_256QAM_FullRB

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n77(3700~3980 MHz)_40 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_40 M_PAR_Mid_QPSK_FullRB

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n77(3700~3980 MHz)_40 M_PAR_Mid_16QAM_FullRB

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n77(3700~3980 MHz)_40 M_PAR_Mid_64QAM_FullRB

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n77(3700~3980 MHz)_40 M_PAR_Mid_256QAM_FullRB

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n77(3700~3980 MHz)_50 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_50 M_PAR_Mid_QPSK_FullRB

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n77(3700~3980 MHz)_50 M_PAR_Mid_16QAM_FullRB

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n77(3700~3980 MHz)_50 M_PAR_Mid_64QAM_FullRB

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n77(3700~3980 MHz)_50 M_PAR_Mid_256QAM_FullRB

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n77(3700~3980 MHz)_60 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_60 M_PAR_Mid_QPSK_FullRB

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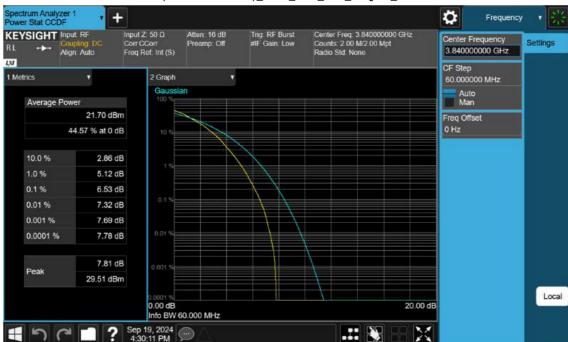




n77(3700~3980 MHz)_60 M_PAR_Mid_16QAM_FullRB

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n77(3700~3980 MHz)_60 M_PAR_Mid_64QAM_FullRB

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n77(3700~3980 MHz)_60 M_PAR_Mid_256QAM_FullRB

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n77(3700~3980 MHz)_70 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_70 M_PAR_Mid_QPSK_FullRB

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n77(3700~3980 MHz)_70 M_PAR_Mid_16QAM_FullRB

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n77(3700~3980 MHz)_70 M_PAR_Mid_64QAM_FullRB

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n77(3700~3980 MHz)_70 M_PAR_Mid_256QAM_FullRB

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n77(3700~3980 MHz)_80 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_80 M_PAR_Mid_QPSK_FullRB

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n77(3700~3980 MHz)_80 M_PAR_Mid_16QAM_FullRB

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n77(3700~3980 MHz)_80 M_PAR_Mid_64QAM_FullRB

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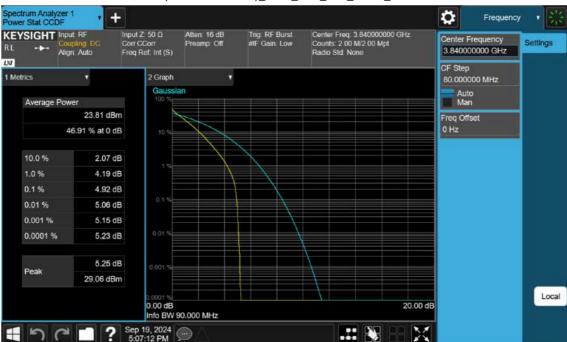




n77(3700~3980 MHz)_80 M_PAR_Mid_256QAM_FullRB

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n77(3700~3980 MHz)_90 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_90 M_PAR_Mid_QPSK_FullRB

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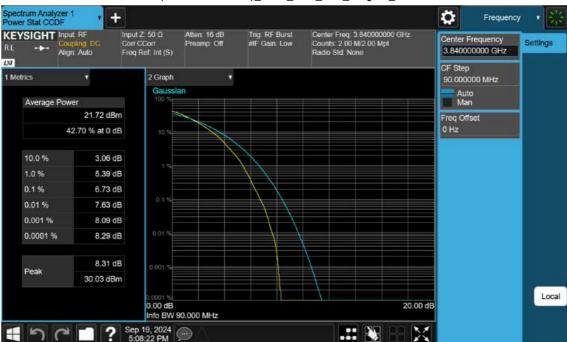




n77(3700~3980 MHz)_90 M_PAR_Mid_16QAM_FullRB

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n77(3700~3980 MHz)_90 M_PAR_Mid_64QAM_FullRB

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n77(3700~3980 MHz)_90 M_PAR_Mid_256QAM_FullRB

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n77(3700~3980 MHz)_100 M_PAR_Mid_BPSK_FullRB

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n77(3700~3980 MHz)_100 M_PAR_Mid_QPSK_FullRB

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n77(3700~3980 MHz)_100 M_PAR_Mid_16QAM_FullRB

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