

1 5 C 7 Jun 10, 2024 3:38:02 PM

#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 20.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 200.00 kHz Span 20 MHz Sweep 1.00 ms (1001 pts) #Video BW 820.00 kHz 2 Metrics Occupied Bandwidth 9.0038 MHz Total Power 28.4 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -186.11 kHz 9.879 MHz 99.00 % -26.00 dB Local

III 🐺

# 10 M\_OBW\_Mid\_64QAM\_FullRB

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# 10 M\_OBW\_Mid\_256QAM\_FullRB



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Local



pectrum Analyzer 1 ccupied BW

KEYSIGHT Input RF

RL Coupling: CAlign: Auto

Scale/Div 10.0 dB

Center 1.88000 GHz #Res BW 300.00 kHz

> Occupied Bandwidth 13.455 MHz

Transmit Freq Error x dB Bandwidth

1 5 6

2 Metrics

1 Graph

# Input Z: 50 \( \Omega\$ Atten: 16 dB Trig: Free Run Corr CCorr Corr Corr Freq Ref. Int (S) Ref LvI Offset 27.32 dB Ref Value 40.00 dBm | Ref LvI Offset 27.32 dB Ref Value 40.00 dBm | Peak Predict Pr

Span 30 MHz Sweep 1.00 ms (1001 pts)

30.4 dBm

99.00 % -26.00 dB

III 🐺

# 15 M\_OBW\_Mid\_BPSK\_FullRB

Total Power

% of OBW Power x dB

#Video BW 1.2000 MHz

-355.17 kHz 14.55 MHz

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 30.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 300.00 kHz Span 30 MHz Sweep 1.00 ms (1001 pts) #Video BW 1.2000 MHz 2 Metrics Occupied Bandwidth 13.484 MHz Total Power 30.2 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -362.11 kHz 14.76 MHz 99.00 % -26.00 dB Local

III 🐺

# 15 M\_OBW\_Mid\_QPSK\_FullRB

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 30.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 300.00 kHz Span 30 MHz Sweep 1.00 ms (1001 pts) #Video BW 1.2000 MHz 2 Metrics Occupied Bandwidth 13.468 MHz Total Power 29.2 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -344.83 kHz 14.65 MHz 99.00 % -26.00 dB Local

III 🐺

# 15 M\_OBW\_Mid\_16QAM\_FullRB

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# 15 M\_OBW\_Mid\_64QAM\_FullRB



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# 15 M\_OBW\_Mid\_256QAM\_FullRB



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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 40.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 390.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) #Video BW 1.6000 MHz 2 Metrics Occupied Bandwidth 17.938 MHz 30.7 dBm Total Power % of OBW Power x dB Transmit Freq Error x dB Bandwidth -536.73 kHz 19.35 MHz 99.00 % -26.00 dB Local

III 🐺

# 20 M\_OBW\_Mid\_BPSK\_FullRB

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 40.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 390.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) #Video BW 1.6000 MHz 2 Metrics Occupied Bandwidth 17.935 MHz Total Power 30.4 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -533.19 kHz 19.29 MHz 99.00 % -26.00 dB Local

III 🐺

? Jun 10, 2024 ....

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# 20 M\_OBW\_Mid\_QPSK\_FullRB

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 40.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 390.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) #Video BW 1.6000 MHz 2 Metrics Occupied Bandwidth 17.916 MHz Total Power 29.3 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -547.20 kHz 19.23 MHz 99.00 % -26.00 dB Local

III 🐺

# 20 M\_OBW\_Mid\_16QAM\_FullRB

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Local



Transmit Freq Error x dB Bandwidth

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-560.40 kHz 19.29 MHz

#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 40.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 390.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) #Video BW 1.6000 MHz 2 Metrics Occupied Bandwidth 17.865 MHz 28.7 dBm Total Power

% of OBW Power x dB

99.00 % -26.00 dB

III 🐺

# 20 M\_OBW\_Mid\_64QAM\_FullRB

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# 20 M\_OBW\_Mid\_256QAM\_FullRB



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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 50.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 510.00 kHz Span 50 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.0000 MHz 2 Metrics Occupied Bandwidth 22.972 MHz 30.7 dBm Total Power % of OBW Power x dB Transmit Freq Error x dB Bandwidth -432.00 kHz 25.01 MHz 99.00 % -26.00 dB Local

III 🐺

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# 25 M\_OBW\_Mid\_BPSK\_FullRB

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 50.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 510.00 kHz Span 50 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.0000 MHz 2 Metrics Occupied Bandwidth 22.992 MHz Total Power 30.3 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -437.32 kHz 25.15 MHz 99.00 % -26.00 dB Local

III 🐺

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# 25 M\_OBW\_Mid\_QPSK\_FullRB

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Local



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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 50.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 510.00 kHz Span 50 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.0000 MHz 2 Metrics Occupied Bandwidth 22.970 MHz Total Power 29.3 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -427.36 kHz 24.99 MHz 99.00 % -26.00 dB

III 🐺

# 25 M\_OBW\_Mid\_16QAM\_FullRB

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Local



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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 50.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 510.00 kHz Span 50 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.0000 MHz 2 Metrics Occupied Bandwidth 22.941 MHz Total Power 28.8 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -467.51 kHz 24.90 MHz 99.00 % -26.00 dB

III 🐺

# 25 M\_OBW\_Mid\_64QAM\_FullRB

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# 25 M\_OBW\_Mid\_256QAM\_FullRB



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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 60.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 620.00 kHz Span 60 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.4000 MHz 2 Metrics Occupied Bandwidth 28.724 MHz Total Power 30.9 dBm % of OBW Power x dB -6.557 kHz 32.06 MHz Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB Local

III 🐺

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#### 30 M\_OBW\_Mid\_BPSK\_FullRB

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Local



pectrum Analyzer 1 ccupied BW

KEYSIGHT Input RF

RL Coupling: CAlign: Auto

Scale/Div 10.0 dB

Center 1.88000 GHz #Res BW 620.00 kHz

Occupied Bandwidth 28.774 MHz

Transmit Freq Error x dB Bandwidth

1 5 6

-14.515 kHz 31.86 MHz

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2 Metrics

1 Graph

#### ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low Atten: 16 dB Preamp: Off Settings 1.880000000 GHz 60.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz Span 60 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.4000 MHz

30.5 dBm

99.00 % -26.00 dB

III 🐺

# 30 M\_OBW\_Mid\_QPSK\_FullRB

Total Power

% of OBW Power x dB

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 60.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 620.00 kHz Span 60 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.4000 MHz 2 Metrics Occupied Bandwidth 28,715 MHz Total Power 29.5 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -13.251 kHz 32.46 MHz 99.00 % -26.00 dB Local

III 🐺

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# 30 M\_OBW\_Mid\_16QAM\_FullRB

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 60.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 620.00 kHz Span 60 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.4000 MHz 2 Metrics Occupied Bandwidth 28,710 MHz Total Power 28.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth 57.884 kHz 32.01 MHz 99.00 % -26.00 dB Local

III 🐺

? Jun 10, 2024 ....

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# 30 M\_OBW\_Mid\_64QAM\_FullRB

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# 30 M\_OBW\_Mid\_256QAM\_FullRB



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# 35 M\_OBW\_Mid\_BPSK\_FullRB



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1 5 6

#### 35 M\_OBW\_Mid\_QPSK\_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 70.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 7.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 680.00 kHz Span 70 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.7000 MHz 2 Metrics Occupied Bandwidth 32.334 MHz Total Power 30.4 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -699.62 kHz 36.21 MHz 99.00 % -26.00 dB Local

III 🐺

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Local



Occupied Bandwidth 32.382 MHz

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-689.24 kHz 35.79 MHz

Transmit Freq Error x dB Bandwidth

#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 70.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 7.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 680.00 kHz Span 70 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.7000 MHz 2 Metrics

Total Power

% of OBW Power x dB

29.4 dBm

99.00 % -26.00 dB

III 🐺

# 35 M\_OBW\_Mid\_16QAM\_FullRB

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# 35 M\_OBW\_Mid\_64QAM\_FullRB



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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 70.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 7.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 680.00 kHz Span 70 MHz Sweep 1.00 ms (1001 pts) #Video BW 2.7000 MHz 2 Metrics Occupied Bandwidth 32.379 MHz Total Power 26.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -658.49 kHz 35.85 MHz 99.00 % -26.00 dB Local

III 🐺

? Jun 10, 2024 ....

1 5 6

# 35 M\_OBW\_Mid\_256QAM\_FullRB

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 80.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 820.00 kHz Span 80 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz 2 Metrics Occupied Bandwidth 38.705 MHz Total Power 31.0 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -23.346 kHz 42.89 MHz 99.00 % -26.00 dB Local

III 🐺

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#### 40 M\_OBW\_Mid\_BPSK\_FullRB

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Local



#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 80.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 820.00 kHz Span 80 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz 2 Metrics Occupied Bandwidth 38.761 MHz Total Power 30.4 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth 31.798 kHz 43.19 MHz 99.00 % -26.00 dB

III 🐺

? Jun 10, 2024 ....

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# 40 M\_OBW\_Mid\_QPSK\_FullRB

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 80.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 820.00 kHz Span 80 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz 2 Metrics Occupied Bandwidth 38.736 MHz Total Power 29.5 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth 5.093 kHz 42.66 MHz 99.00 % -26.00 dB Local

III 🐺

# 40 M\_OBW\_Mid\_16QAM\_FullRB

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 80.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 820.00 kHz Span 80 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz 2 Metrics Occupied Bandwidth 38.749 MHz Total Power 29.0 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth 21.980 kHz 42.58 MHz 99.00 % -26.00 dB Local

III 🐺

# 40 M\_OBW\_Mid\_64QAM\_FullRB

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#### pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 1.880000000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 16 dB Preamp: Off Settings RL Coupling: CAlign: Auto 1.880000000 GHz 1 Graph 80.000 MHz Ref LvI Offset 27.32 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz Center 1.88000 GHz #Res BW 820.00 kHz Span 80 MHz Sweep 1.00 ms (1001 pts) #Video BW 3.0000 MHz 2 Metrics Occupied Bandwidth 38.725 MHz Total Power 27.0 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -7.077 kHz 42.74 MHz 99.00 % -26.00 dB Local

III 🐺

# 40 M\_OBW\_Mid\_256QAM\_FullRB

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5 M\_Conducted Spurious(30 M-10 G)\_Low\_BPSK\_1RB

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# 5 M\_Conducted Spurious(30 M-10 G)\_Mid\_BPSK\_FullRB

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# 5 M\_Conducted Spurious(30 M-10 G)\_High\_BPSK\_1RB

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# 10 M\_Conducted Spurious(30 M-10 G)\_Low\_BPSK\_1RB

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## 10 M\_Conducted Spurious(30 M-10 G)\_Mid\_BPSK\_FullRB

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## 10 M\_Conducted Spurious(30 M-10 G)\_High\_BPSK\_1RB

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15 M\_Conducted Spurious(30 M-10 G)\_Low\_BPSK\_1RB

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# 15 M\_Conducted Spurious(30 M-10 G)\_Mid\_BPSK\_FullRB

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15 M\_Conducted Spurious(30 M-10 G)\_High\_BPSK\_1RB

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20 M\_Conducted Spurious(30 M-10 G)\_Low\_BPSK\_1RB

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## 20 M\_Conducted Spurious(30 M-10 G)\_Mid\_BPSK\_FullRB

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20 M\_Conducted Spurious(30 M-10 G)\_High\_BPSK\_1RB

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25 M\_Conducted Spurious(30 M-10 G)\_Low\_BPSK\_1RB

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## 25 M\_Conducted Spurious(30 M-10 G)\_Mid\_BPSK\_FullRB

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25 M\_Conducted Spurious(30 M-10 G)\_High\_BPSK\_1RB

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30 M\_Conducted Spurious(30 M-10 G)\_Low\_BPSK\_1RB

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## 30 M\_Conducted Spurious(30 M-10 G)\_Mid\_BPSK\_FullRB

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30 M\_Conducted Spurious(30 M-10 G)\_High\_BPSK\_1RB

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35 M\_Conducted Spurious(30 M-10 G)\_Low\_BPSK\_1RB

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## 35 M\_Conducted Spurious(30 M-10 G)\_Mid\_BPSK\_FullRB

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35 M\_Conducted Spurious(30 M-10 G)\_High\_BPSK\_1RB

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40 M\_Conducted Spurious(30 M-10 G)\_Low\_BPSK\_1RB

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## 40 M\_Conducted Spurious(30 M-10 G)\_Mid\_BPSK\_FullRB

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40 M\_Conducted Spurious(30 M-10 G)\_High\_BPSK\_1RB

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# 5 M\_Conducted Spurious(Above10 G)\_Low\_BPSK\_1RB

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# 5 M\_Conducted Spurious(Above10 G)\_Mid\_BPSK\_FullRB

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# 5 M\_Conducted Spurious(Above10 G)\_High\_BPSK\_1RB

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off IF Gain: High Sig Track: Off KEYSIGHT Input RF #Atten: 0 dB Preamp: Off Settings Align: Auto 15.000000000 GHz AAAAAA ĻΧI Mkr1 19.985 50 GHz 1 Spectrum 10.0000000 GHz -82.807 dBm Scale/Div 10 dB Ref Level -20.00 dBm Swept Span Zero Span Full Span Start Freq 10.000000000 GHz Stop Freq 20.000000000 GHz AUTO TUNE CF Step 1.000000000 GHz Auto Man Freq Offset 0 Hz Local X Axis Scale Start 10.000 GHz #Res BW 1.0 MHz Stop 20.000 GHz Sweep ~20.4 ms (40000 pts) #Video BW 3.0 MHz Log Lin

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## 10 M\_Conducted Spurious(Above10 G)\_Low\_BPSK\_1RB

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off IF Gain: High Sig Track: Off KEYSIGHT Input RF Center Frequency Settings Align: Auto 15.000000000 GHz AAAAAA ĻΧI Mkr1 19.452 24 GHz 1 Spectrum 10.0000000 GHz -82.467 dBm Scale/Div 10 dB Ref Level -20.00 dBm Swept Span Zero Span Full Span Start Freq 10.000000000 GHz Stop Freq 20.000000000 GHz AUTO TUNE CF Step 1.000000000 GHz Auto Man Freq Offset 0 Hz Local X Axis Scale Start 10.000 GHz #Res BW 1.0 MHz Stop 20.000 GHz Sweep ~20.4 ms (40000 pts) #Video BW 3.0 MHz Log Lin

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## 10 M\_Conducted Spurious(Above10 G)\_Mid\_BPSK\_FullRB

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## 10 M\_Conducted Spurious(Above10 G)\_High\_BPSK\_1RB

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## 15 M\_Conducted Spurious(Above10 G)\_Low\_BPSK\_1RB

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## 15 M\_Conducted Spurious(Above10 G)\_Mid\_BPSK\_FullRB

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## 15 M\_Conducted Spurious(Above10 G)\_High\_BPSK\_1RB

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run KEYSIGHT Input RF #Atten: 0 dB Preamp: Off Settings Align: Auto 15.000000000 GHz AAAAAA ĻΧI Mkr1 19.996 50 GHz 1 Spectrum 10.0000000 GHz -82.677 dBm Scale/Div 10 dB Ref Level -20.00 dBm Swept Span Zero Span Full Span Start Freq 10.000000000 GHz Stop Freq 20.000000000 GHz AUTO TUNE CF Step 1.000000000 GHz Auto Man Freq Offset 0 Hz Local X Axis Scale Start 10.000 GHz #Res BW 1.0 MHz Stop 20.000 GHz Sweep ~20.4 ms (40000 pts) #Video BW 3.0 MHz Log Lin

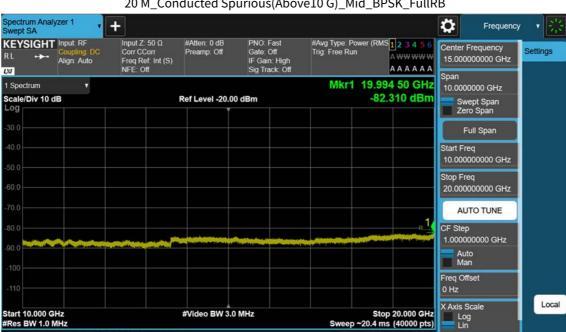
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## 20 M\_Conducted Spurious(Above10 G)\_Low\_BPSK\_1RB

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## 20 M\_Conducted Spurious(Above10 G)\_Mid\_BPSK\_FullRB

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## 20 M\_Conducted Spurious(Above10 G)\_High\_BPSK\_1RB

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## 25 M\_Conducted Spurious(Above10 G)\_Low\_BPSK\_1RB

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## 25 M\_Conducted Spurious(Above10 G)\_Mid\_BPSK\_FullRB

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## 25 M\_Conducted Spurious(Above10 G)\_High\_BPSK\_1RB

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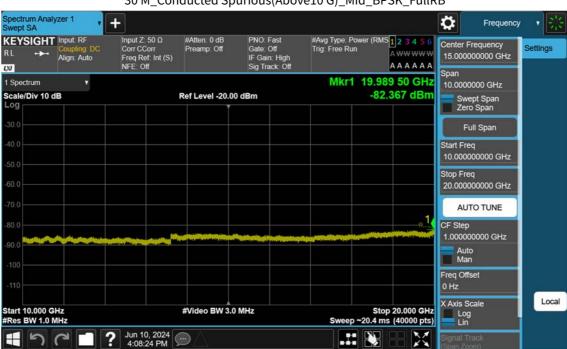


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## 30 M\_Conducted Spurious(Above10 G)\_Low\_BPSK\_1RB

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## 30 M\_Conducted Spurious(Above10 G)\_Mid\_BPSK\_FullRB

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