

N48(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



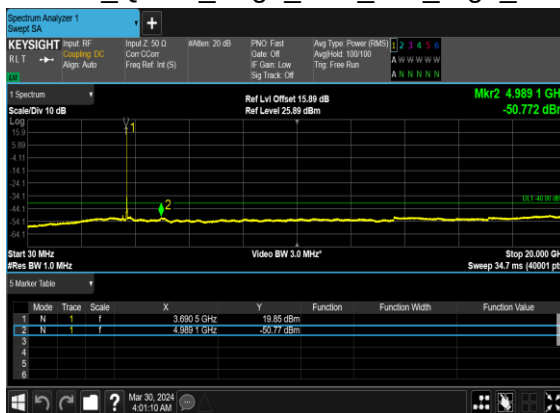
N48(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



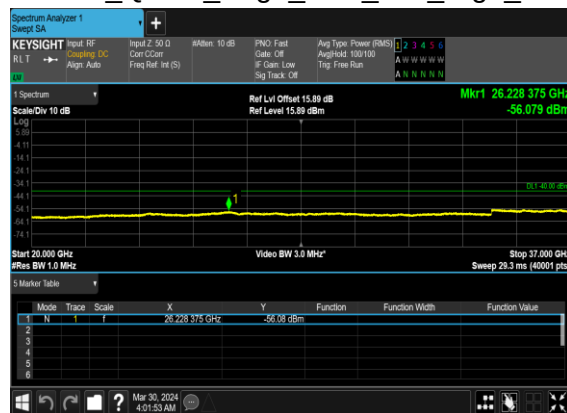
N48(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



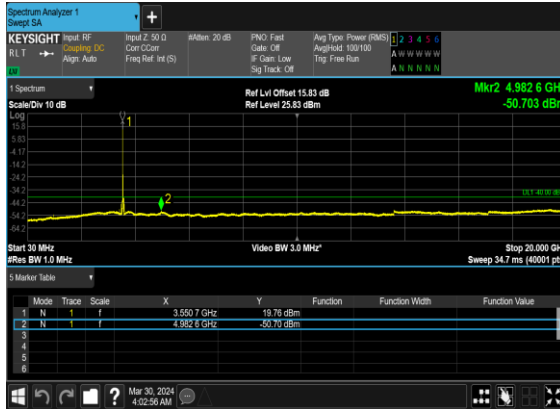
N48(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



N48(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



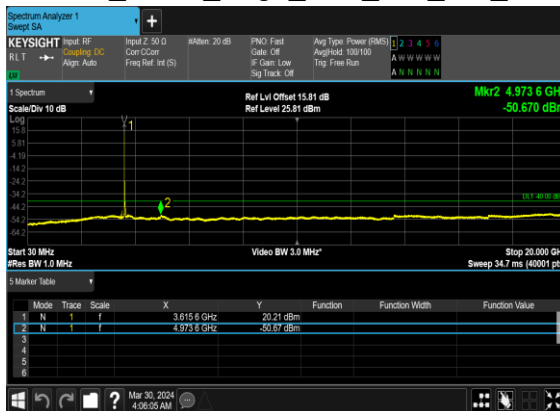
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



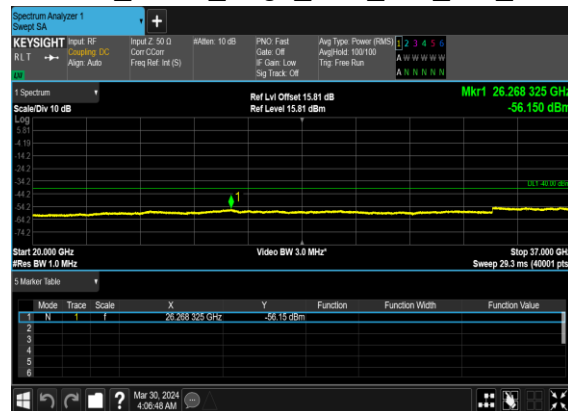
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



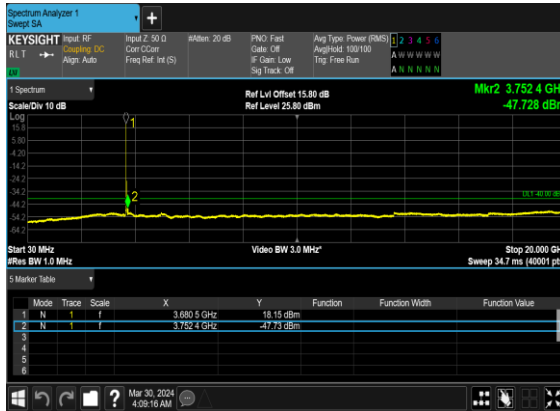
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



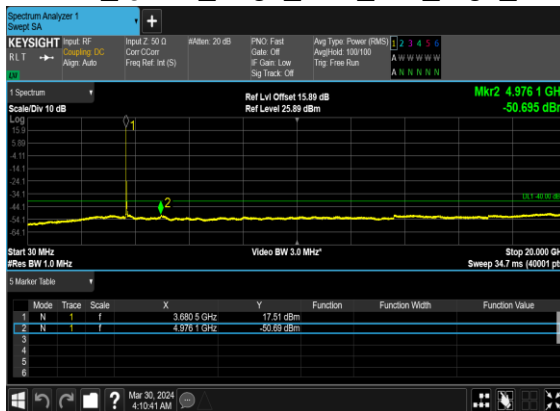
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



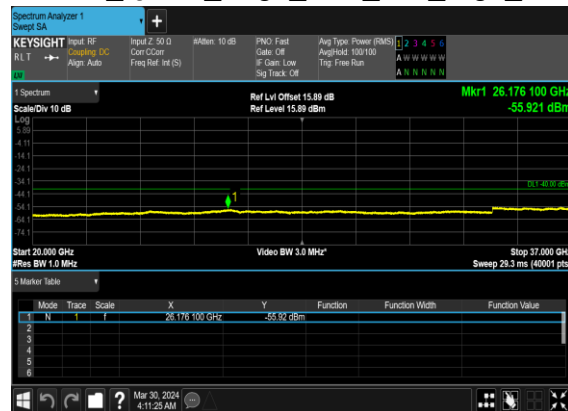
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



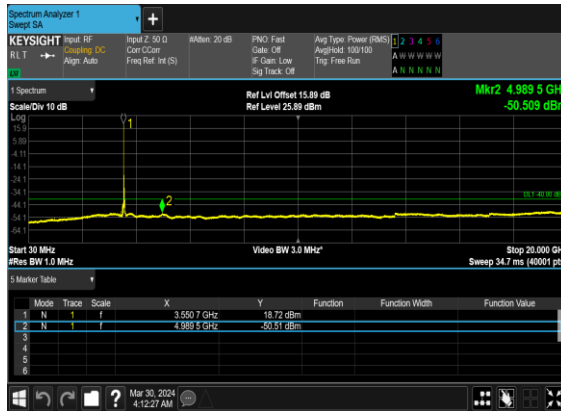
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



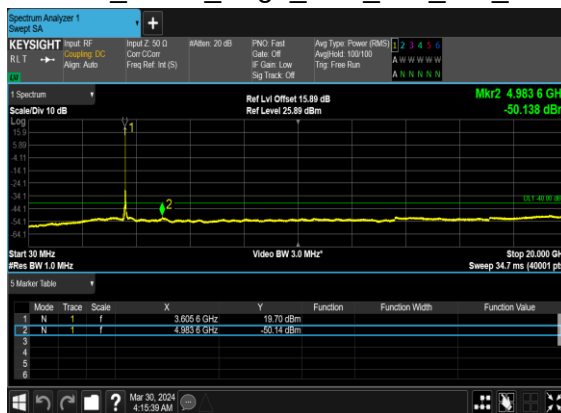
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OFDM_QPSK_Edge_1RB_Left_Low_CH



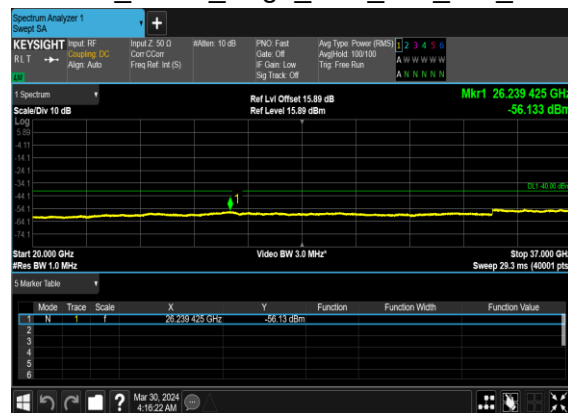
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



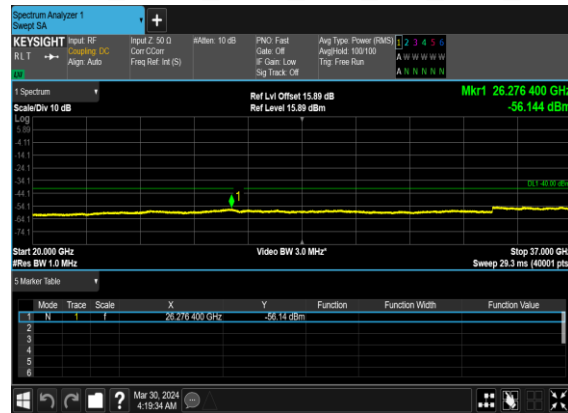
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



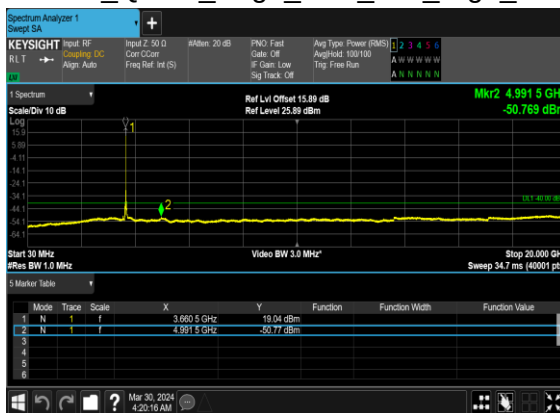
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

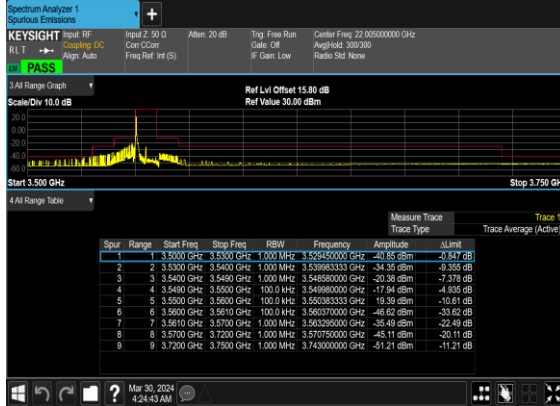


Conducted Band Edge

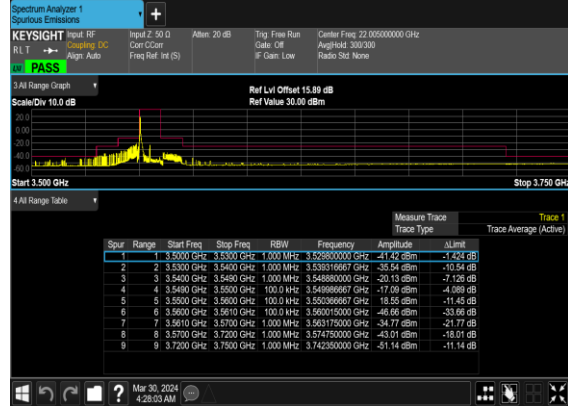
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@51	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@51	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@51	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@51	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@215	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@215	see graph	PASS

48	15	40	638000	3570.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@215	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@215	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	216@0	see graph	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	216@0	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@215	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@215	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	216@0	see graph	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	216@0	see graph	PASS

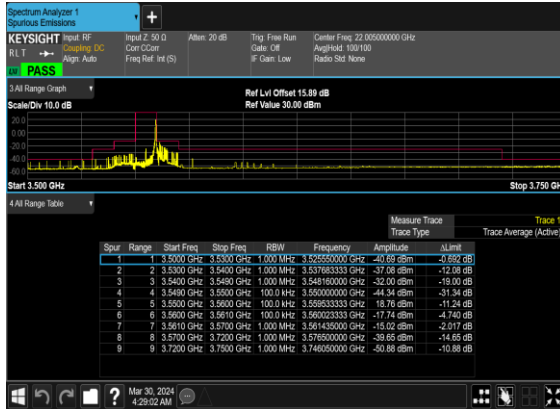
N48(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



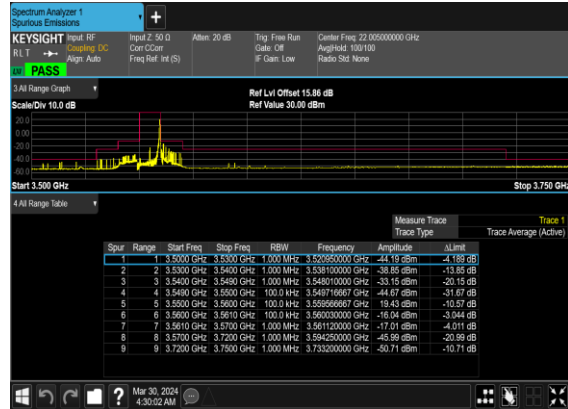
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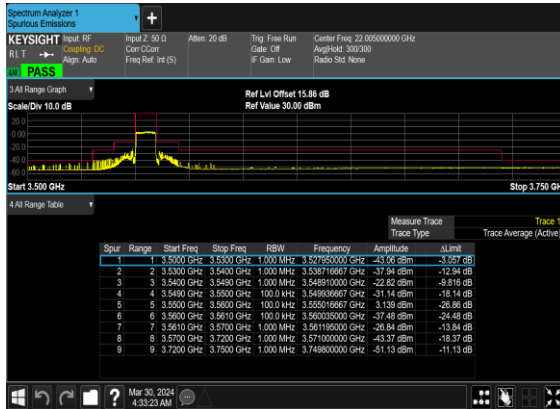
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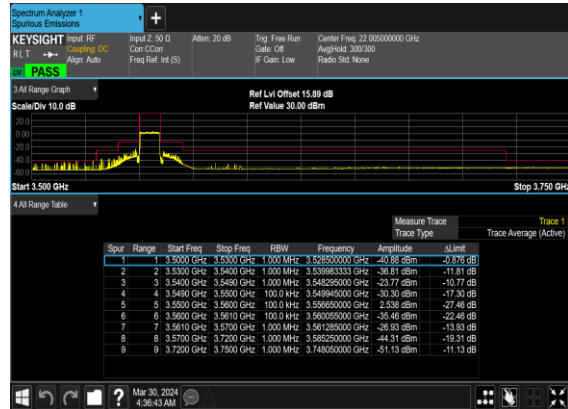
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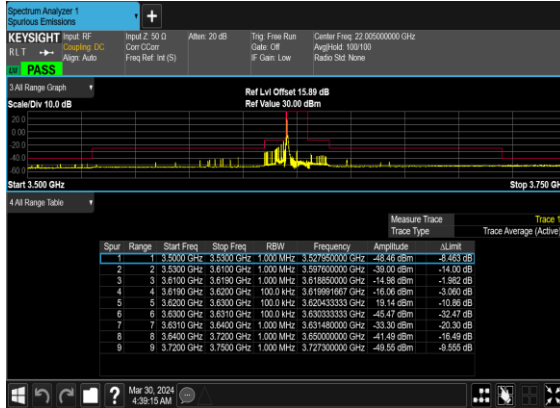
N48(10M)_DFT-s- OFDM_BPSK_Outer_Full_Low_CH



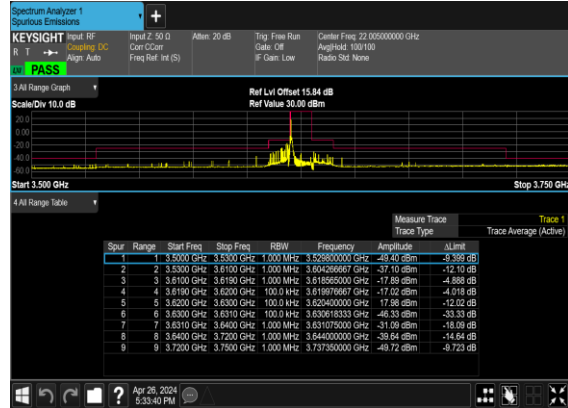
N48(10M)_DFT-s- OFDM_QPSK_Outer_Full_Low_CH



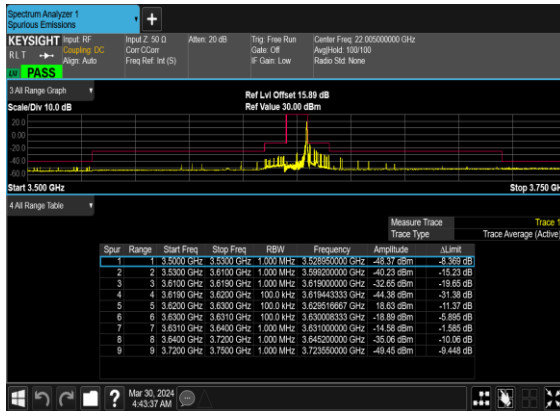
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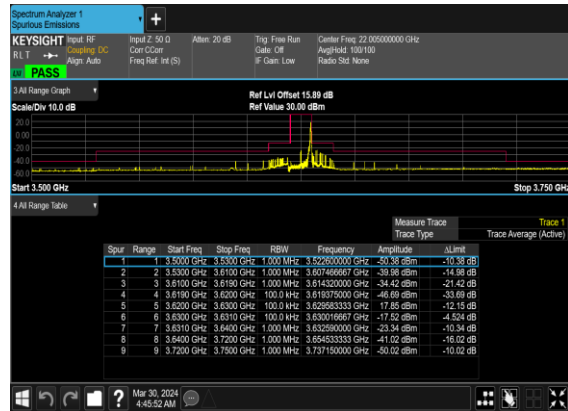
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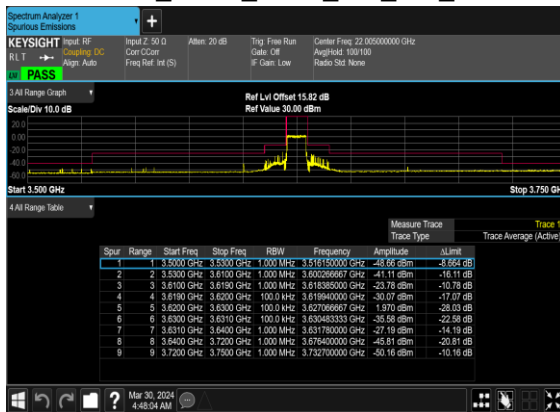
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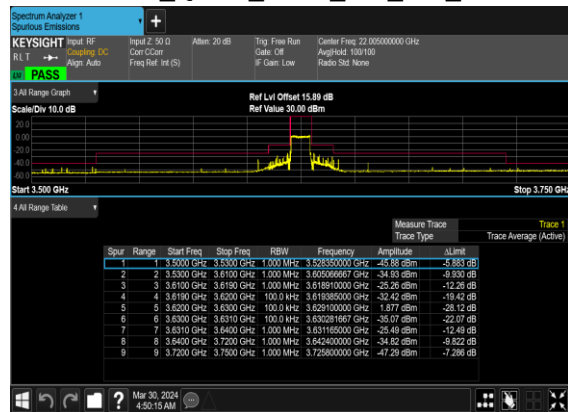
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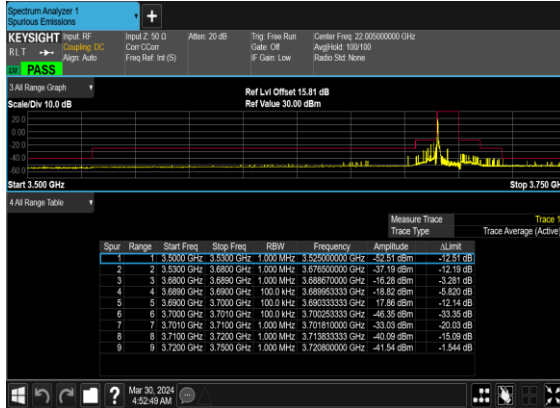
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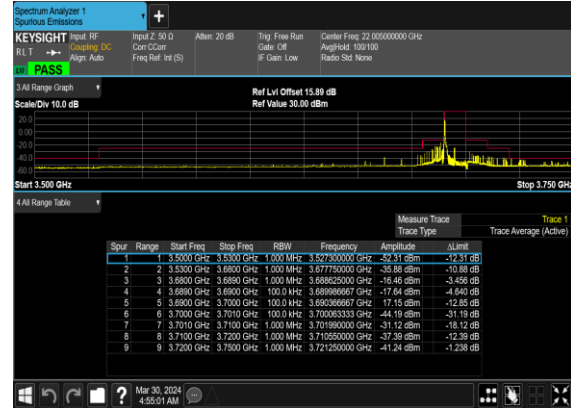
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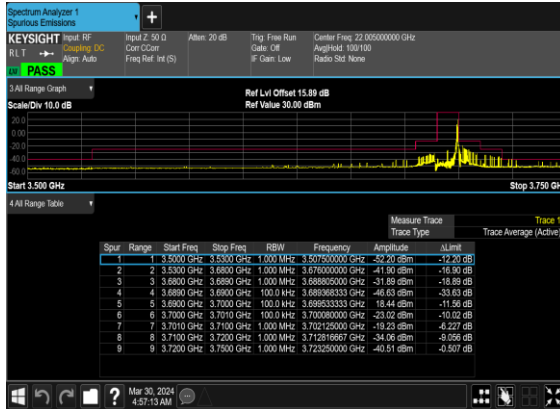
N48(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



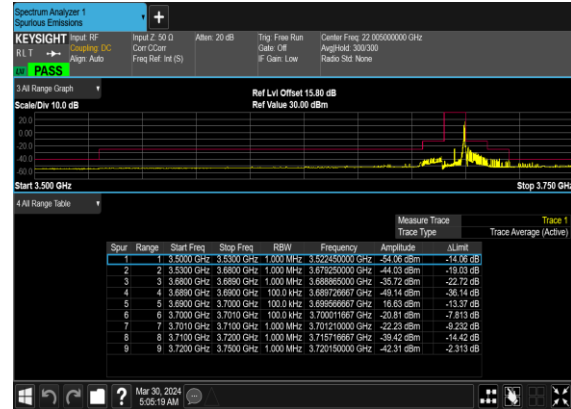
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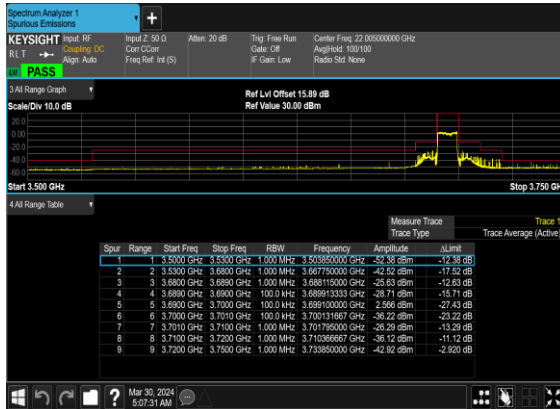
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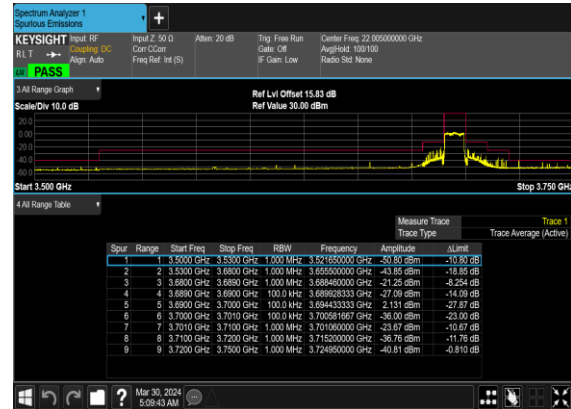
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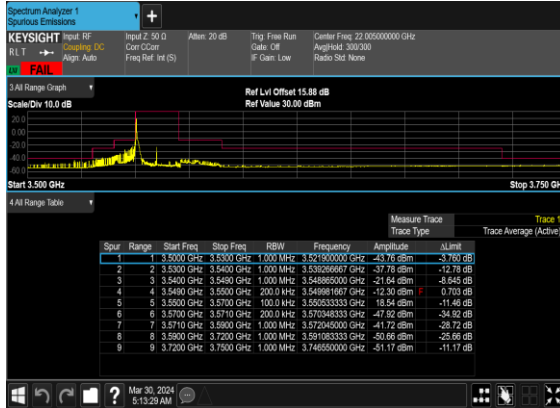
N48(10M)_DFT-s- OFDM_BPSK_Outer_Full_High_CH



N48(10M)_DFT-s- OFDM_QPSK_Outer_Full_High_CH



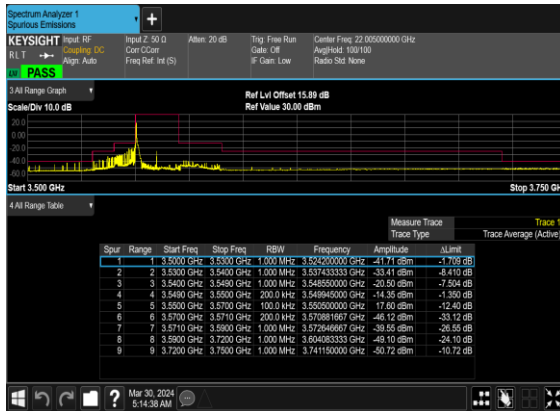
N48(20M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



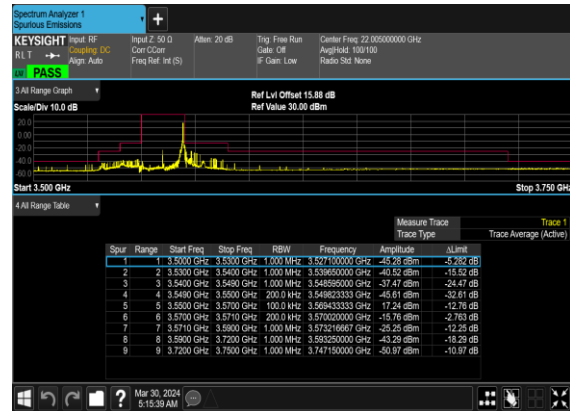
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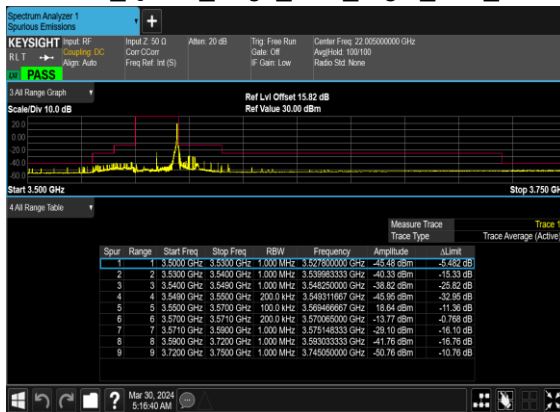
N48(20M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



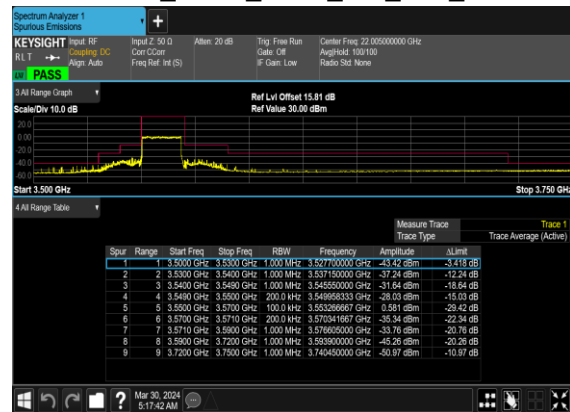
N48(20M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_Low_CH



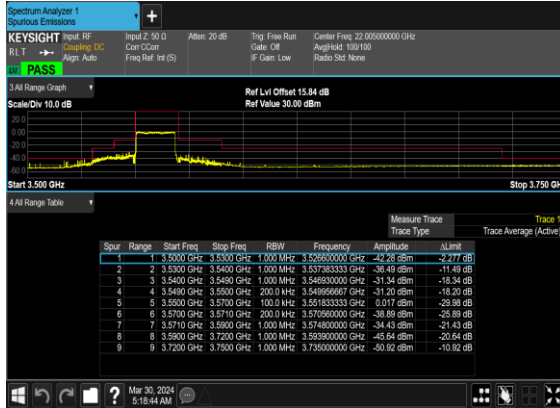
N48(20M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_Low_CH



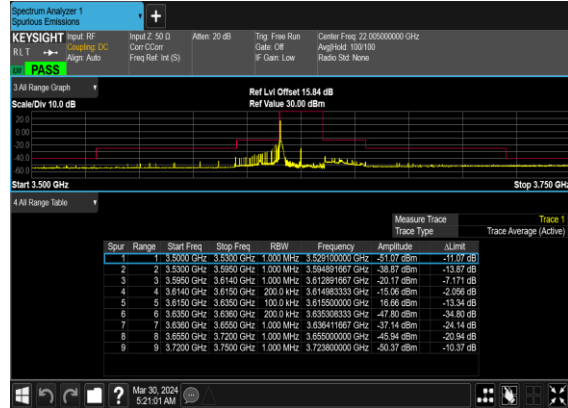
N48(20M)_DFT-s- OFDM_BPSK_Outer_Full_Low_CH



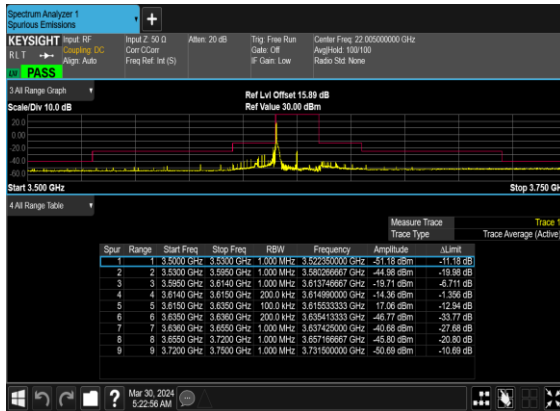
N48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



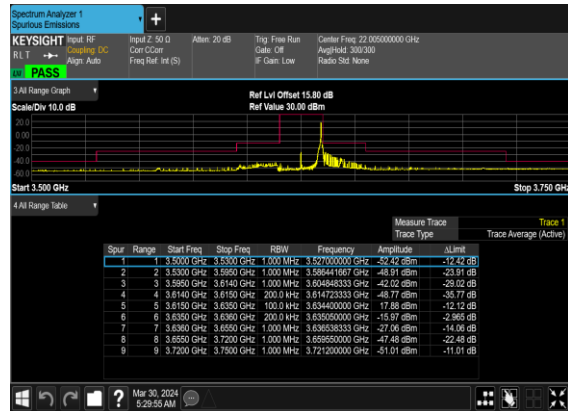
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



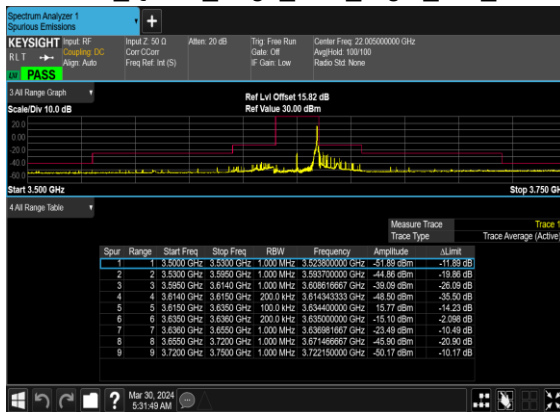
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



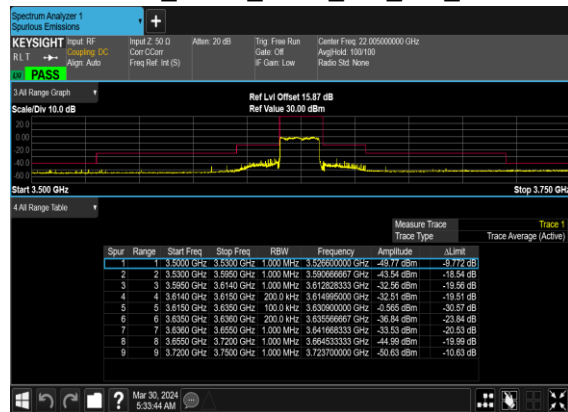
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH



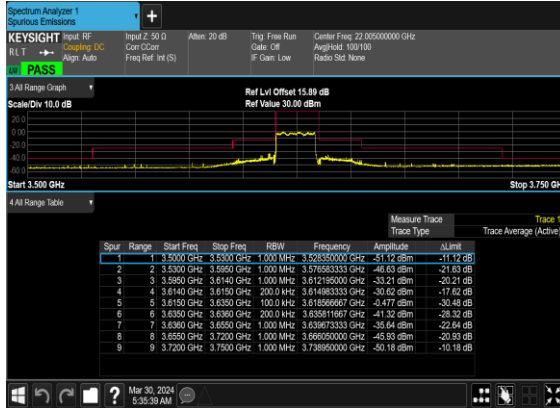
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



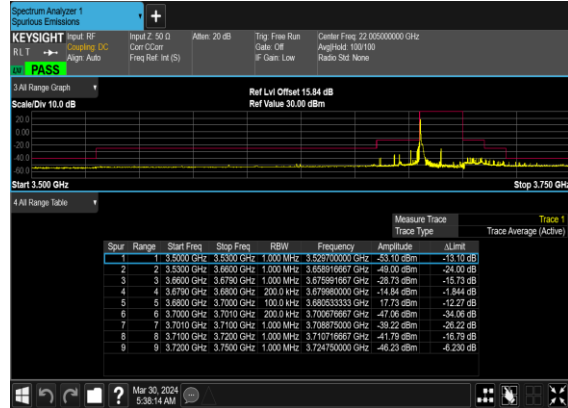
N48(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Mid_CH



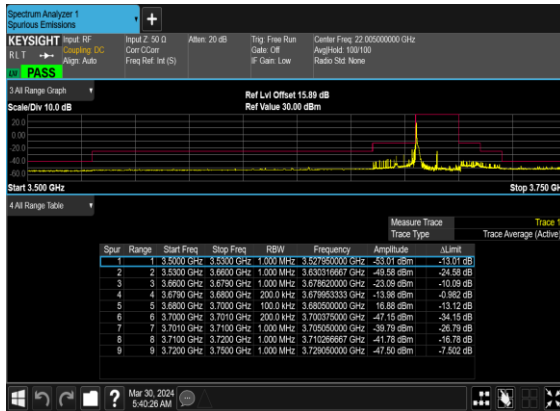
N48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



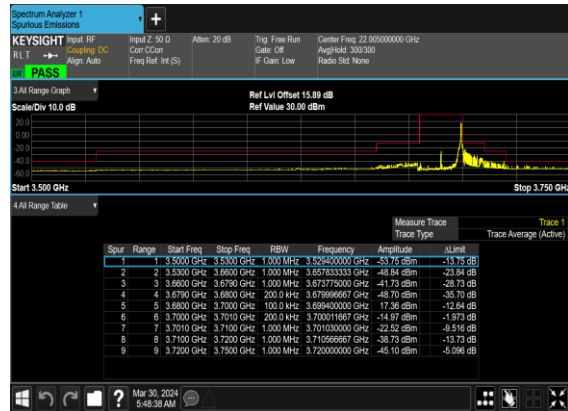
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



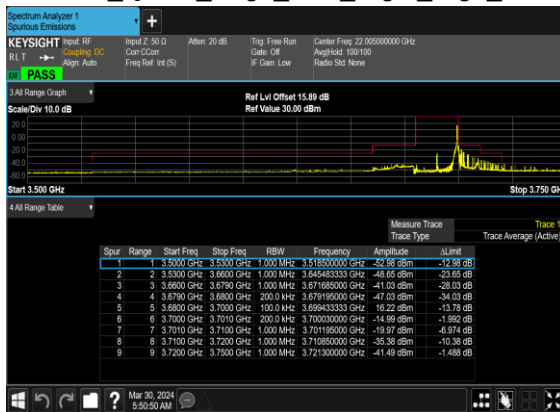
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



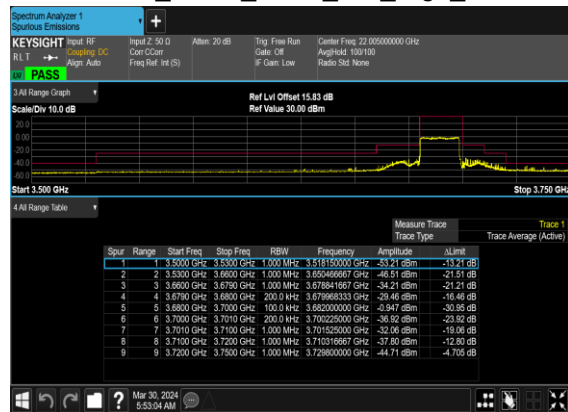
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



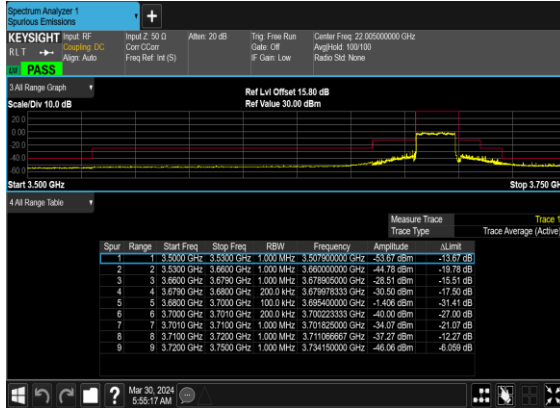
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



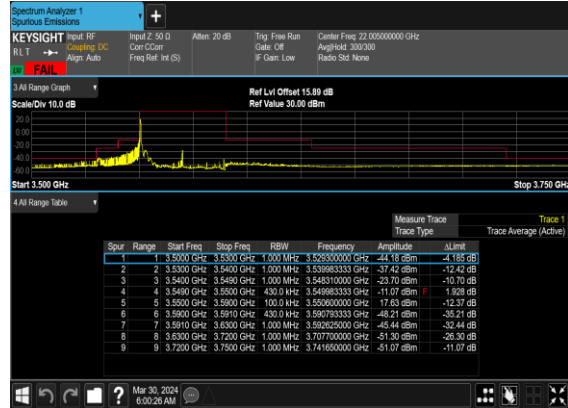
N48(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



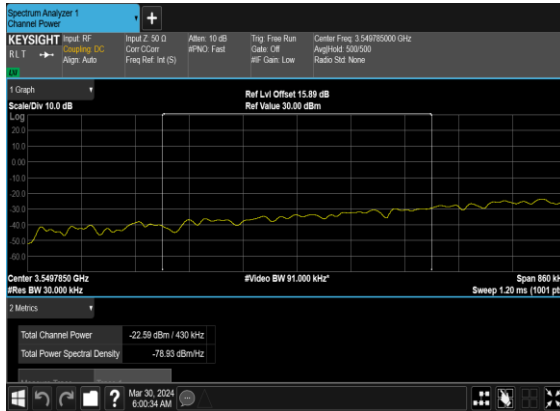
N48(20M)_DFT-s- OFDM_QPSK_Outer_Full_High_CH



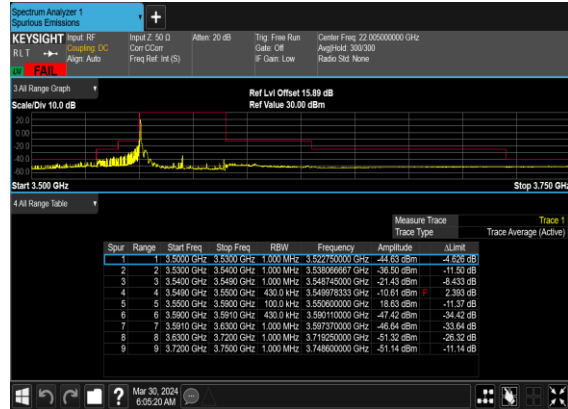
N48(40M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



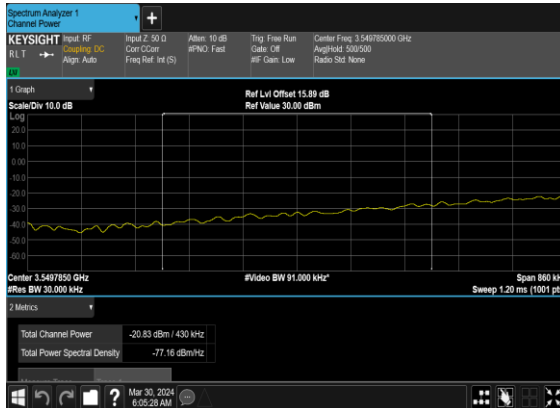
N48(40M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH_chp PASS



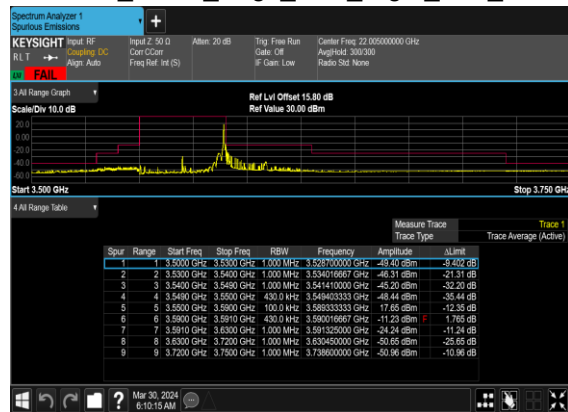
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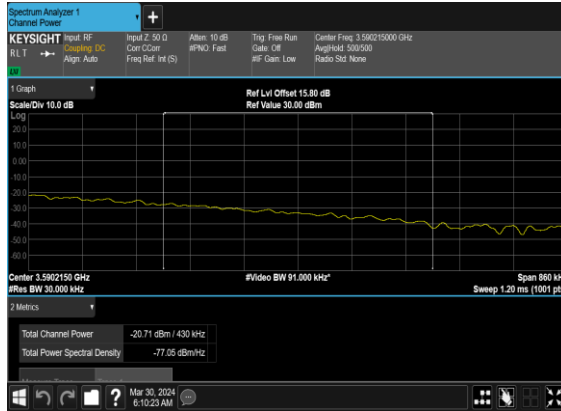
N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH_chp PASS



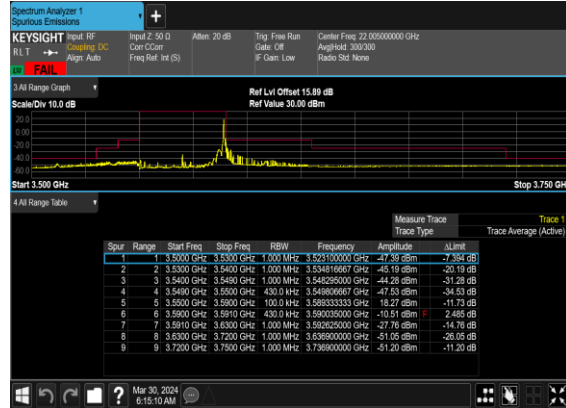
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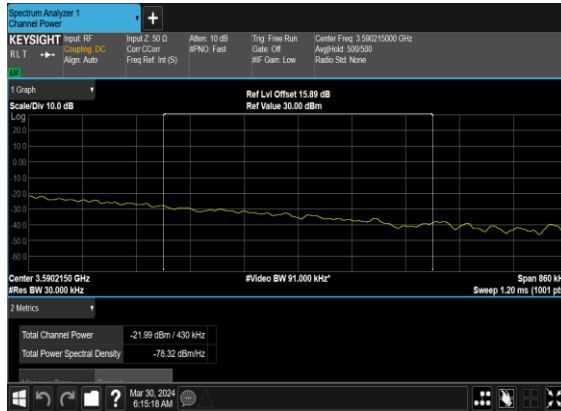
N48(40M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_Low_CH_chp _PASS



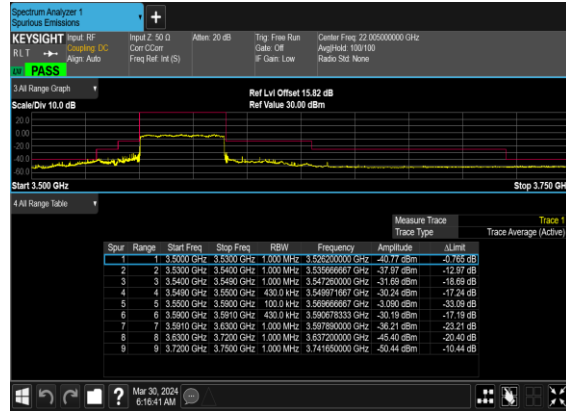
N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_Low_CH



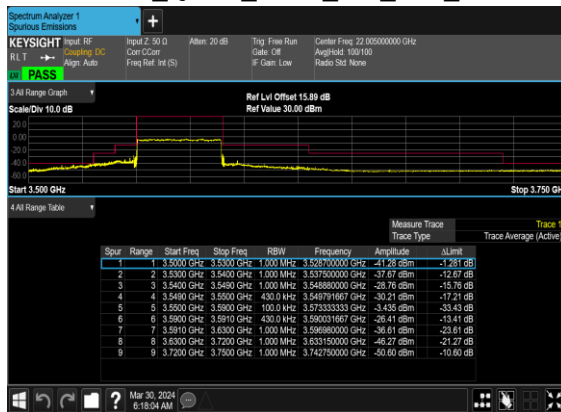
N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_Low_CH_chp _PASS



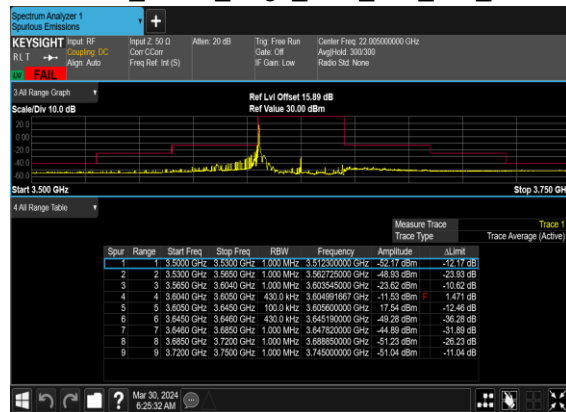
N48(40M)_DFT-s- OFDM_BPSK_Outer_Full_Low_CH



N48(40M)_DFT-s- OFDM_QPSK_Outer_Full_Low_CH



N48(40M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Mid_CH



Spectrum Analyzer 1
Channel Power

KEYSIGHT Input RF
 RLT → **Generating DC**
 Align: Auto

Input Z: 50 Ω
 Corr: COrr
 Freq Ref: 1 Hz (S)

Att'n: 10 dB
 #NO: Fast

Trig: Free Run
 Gate: Off
 #1: Gain Low

Center Freq: 3.604785000 GHz
 ArgHz4d: 500.000
 Ratio Std: None

1 Graph
 Scale/Div 10.0 dB
 Log

Ref Lvl Offset: 15.00 dB
 Ref Value 30.00 dBm

Center 3.6047850 GHz
 #Res BW 30.00 kHz

#Video BW 91.000 kHz

Span 860 kHz
 Sweep 1.20 ms (1001 pts)

2 Metrics

Total Channel Power	-21.18 dBm / 430 kHz
Total Power Spectral Density	-77.52 dBm/MHz

The screenshot shows a Keysight Spectrum Analyzer interface. At the top, the 'KEYSIGHT' logo is visible. The main display area shows a frequency plot with a red trace. The plot has a scale of 10.0 dB and a range of 3.4 GHz to 3.7 GHz. A red trace is visible, with a peak at approximately 3.5 GHz. The plot is labeled 'Ret Lvl Offset 15.85 dB' and 'Ref Value 30.00 dBm'. Below the plot, there is a table of signal parameters. The table has columns for Spur, Range, Start Freq, Stop Freq, RBW, Frequency, Amplitude, and ALM. The table lists 9 signals. The first signal is at 3.5000 GHz with an amplitude of -51.02 dBm. The second signal is at 3.5300 GHz with an amplitude of -50.14 dBm. The third signal is at 3.5650 GHz with an amplitude of -50.81 dBm. The fourth signal is at 3.6040 GHz with an amplitude of -51.34 dBm. The fifth signal is at 3.6450 GHz with an amplitude of -50.83 dBm. The sixth signal is at 3.6840 GHz with an amplitude of -50.36 dBm. The seventh signal is at 3.6850 GHz with an amplitude of -52.81 dBm. The eighth signal is at 3.7200 GHz with an amplitude of -52.60 dBm. The ninth signal is at 3.7500 GHz with an amplitude of -51.06 dBm. The interface also includes various control buttons and a 'Trace Average' button.

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ALM
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.528110000 GHz	-51.02 dBm	-11.02 dB
2	2	3.5300 GHz	3.5650 GHz	1.000 MHz	3.555025000 GHz	-50.14 dBm	-25.14 dB
3	3	3.5650 GHz	3.6040 GHz	1.000 MHz	3.603845000 GHz	-50.81 dBm	-10.81 dB
4	4	3.6040 GHz	3.6050 GHz	430.0 Hz	3.604833333 GHz	-51.34 dBm	1.656 dB
5	5	3.6050 GHz	3.6450 GHz	100.0 kHz	3.605000000 GHz	-50.83 dBm	-13.53 dB
6	6	3.6450 GHz	3.6460 GHz	430.0 Hz	3.645130000 GHz	-49.36 dBm	-36.36 dB
7	7	3.6460 GHz	3.6850 GHz	1.000 MHz	3.648120000 GHz	-50.63 dBm	-32.63 dB
8	8	3.6850 GHz	3.7200 GHz	1.000 MHz	3.688033333 GHz	-50.80 dBm	-25.80 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.749150000 GHz	-51.06 dBm	-11.06 dB

Spectrum Analyzer 1
Channel Power

KEYSIGHT Input Freq 3.60478500 GHz
 RLT → Creating DC Center Freq 3.604785000 GHz
 Align: Auto Corr CCent ArgHold 500.500
 Freq Ref Trz (S) #PNO: Fast Trig. Free Run Gate: Off #F Gain: Low Radio Std: None

1 Graph
 Scale/Div 10.0 dB
 Log
 20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Center 3.6047850 GHz
 #Res BW 30.00 kHz

Ref Lut Offset 19.05 dBm
 Ref Value 30.00 dBm

#Video BW 91.00 kHz

Span 800 kHz
 Sweep 1.20 ms (1001 pts)

2 Metrics

Total Channel Power	-21.87 dBm / 430 kHz
Total Power Spectral Density	-76.20 dBm/Hz

Spectrum Analyzer 1
 Spurious Emissions
KEYSIGHT Input Ref: **Calibrating DC**
 R/L T → **APPR** Auto
Use PASS

Input 2, 50.0 dBm
 Core C, 20 dB
 Freq Ref: 1st (S)
 Att: 20 dB
 Trig: Free Run
 Gain: Off
 Off Gain: Low
 Center Freq: 22,005,000,000 Hz
 Aegrid: 100100
 Span: Std None

1.60 Range Graph
 Scale/Div: 10.0 dB
 Ref Loss Offset: 15.00 dB
 Ref Value: 30.00 dBm

Start 3.500 GHz
 Stop 3.750 GHz

1.60 Range Table

						Measure Trace		Trace Type		Trace Average (Active)	
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLm				
1	1	3.5000 GHz	3.5000 GHz	1.000 MHz	3.500750000 GHz	-50.91 dBm	-10.91 dB				
2	2	3.5300 GHz	3.5650 GHz	1.000 MHz	3.560900000 GHz	-48.42 dBm	-23.42 dB				
3	3	3.5650 GHz	3.6040 GHz	1.000 MHz	3.601780000 GHz	-43.71 dBm	-30.71 dB				
4	4	3.6040 GHz	3.6050 GHz	430.0 kHz	3.604819687 GHz	-47.12 dBm	-34.12 dB				
5	5	3.6050 GHz	3.6450 GHz	1.000 MHz	3.644333333 GHz	-18.26 dBm	-11.74 dB				
6	6	3.6450 GHz	3.6460 GHz	430.0 kHz	3.645020000 GHz	-13.45 dBm	-6.45 dB				
7	7	3.6460 GHz	3.6850 GHz	1.000 MHz	3.646080000 GHz	-32.46 dBm	-19.46 dB				
8	8	3.6850 GHz	3.7200 GHz	1.000 MHz	3.687825000 GHz	-46.79 dBm	-21.79 dB				
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.722350000 GHz	-50.63 dBm	-10.63 dB				

Mar 30, 2024
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The screenshot displays a Keysight Spectrum Analyzer interface. At the top, the 'KEYSIGHT' logo is visible along with various control buttons like 'Input RF', 'Coupling DC', 'Align Auto', and 'R.L.T.'. The main display area shows a spectrum plot with a red trace. The plot is set to a 4 kHz Range Graph and a Scale/Div of 10.0 dB. The frequency range is from 3.500 GHz to 3.750 GHz. A red trace shows a signal with a peak at approximately 3.645 GHz. Below the plot, a table lists the measured signals, including their Spur, Range, Start Freq, Stop Freq, RBW, Frequency, Amplitude, and Δf (dB).

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δf (dB)
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.502150000 GHz	-52.82 dBm	-12.82 dB
2	1	3.5300 GHz	3.5650 GHz	1.000 MHz	3.560858333 GHz	-51.90 dBm	-26.90 dB
3	3	3.5650 GHz	3.6040 GHz	1.000 MHz	3.602506000 GHz	-45.87 dBm	-32.87 dB
4	3	3.6040 GHz	3.6550 GHz	430.0 MHz	3.645619667 GHz	-49.32 dBm	-36.32 dB
5	5	3.6550 GHz	3.6450 GHz	1.000 MHz	3.644333333 GHz	-14.79 dBm	-55.21 dB
6	6	3.6450 GHz	3.6460 GHz	430.0 MHz	3.645000000 GHz	-12.23 dBm	-0.672 dB
7	7	3.6460 GHz	3.6850 GHz	1.000 MHz	3.646680000 GHz	-24.00 dBm	-11.80 dB
8	8	3.6850 GHz	3.7200 GHz	1.000 MHz	3.685119667 GHz	-44.16 dBm	-32.16 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.722100000 GHz	-50.92 dBm	-10.92 dB

Spectrum Analyzer 1
Channel Power

KEYSIGHT Input: RF Coupling: DC Algs: Auto Input Z: 50 Ω Con: C-Cat Attn: 10 dB IFBW: Fast Trig: Free Run Gate: Off Center Freq: 3.645215000 GHz Avg/Hd: 500/500 Radio Std: None Freq Ref: Int (S)

1 Graph
Scale/Div: 10.0 dB
Log
Ref Lvl Offset: 15.00 dB
Ref Value: 30.00 dBm
#Video BW: 91.000 kHz
Span: 800 kHz
Sweep: 1.20 ms (1001 pts)

Center: 3.6452150 GHz
BW: 30.000 kHz

2 Metrics
Total Channel Power: -23.20 dBm / 430 kHz
Total Power Spectral Density: -79.53 dBm/MHz