

N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



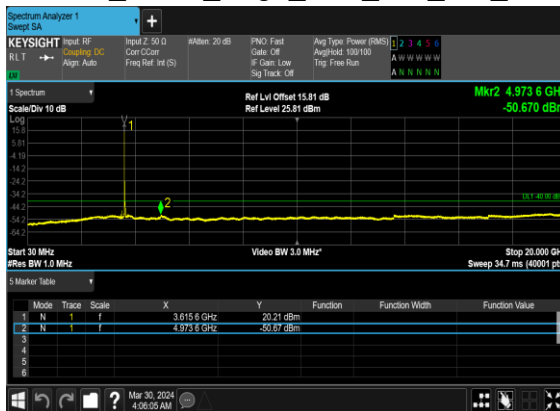
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



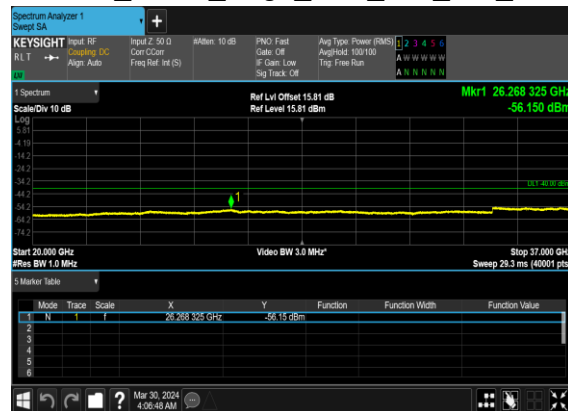
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



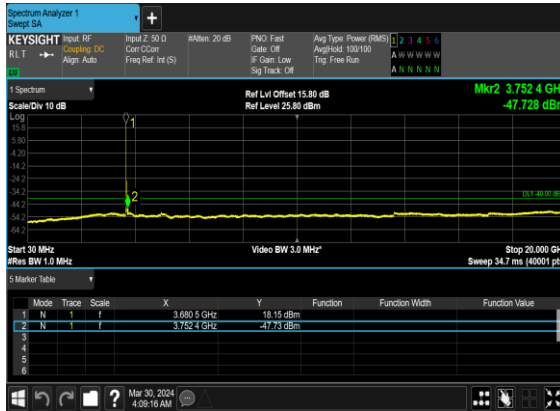
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



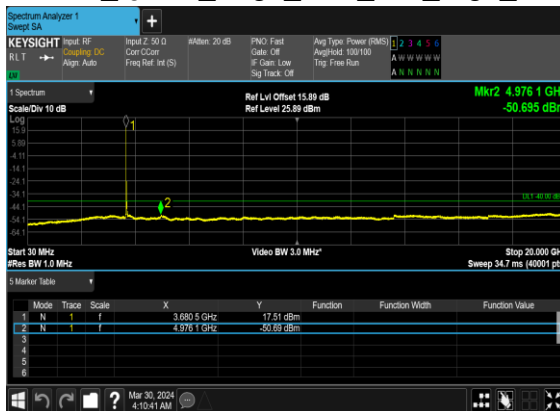
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



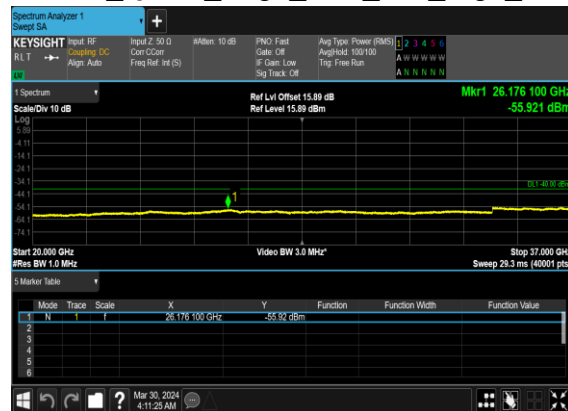
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



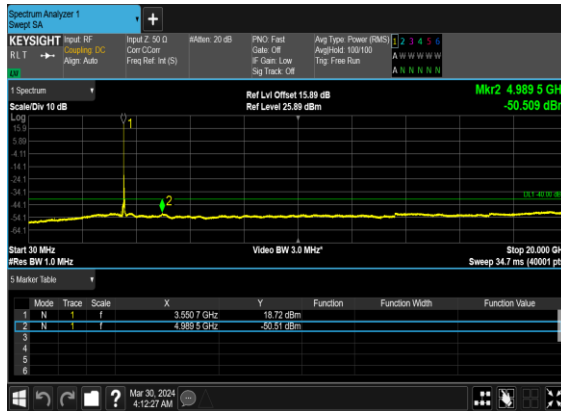
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



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



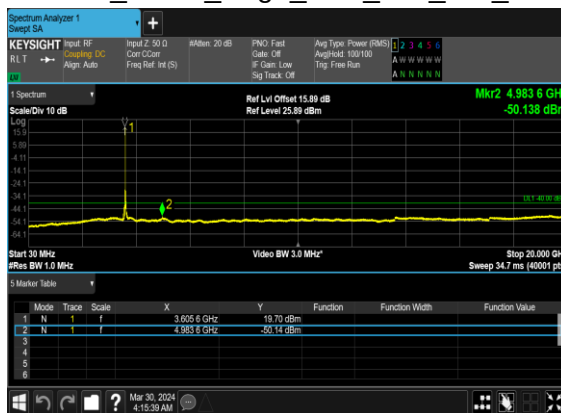
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OFDM_QPSK_Edge_1RB_Left_Low_CH



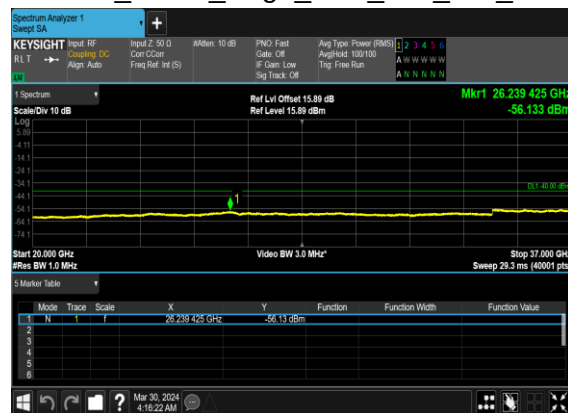
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



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



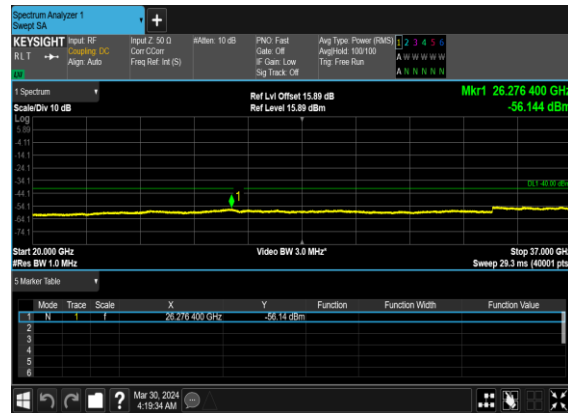
N48(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



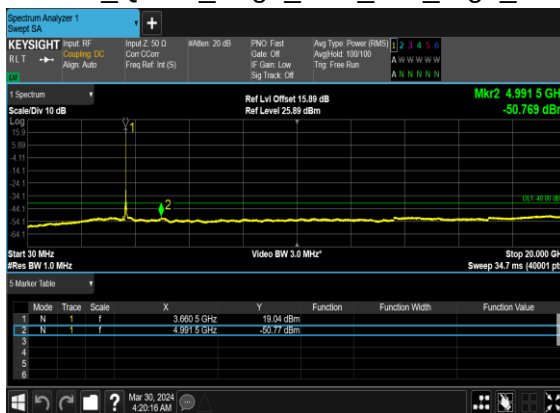
N48(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



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

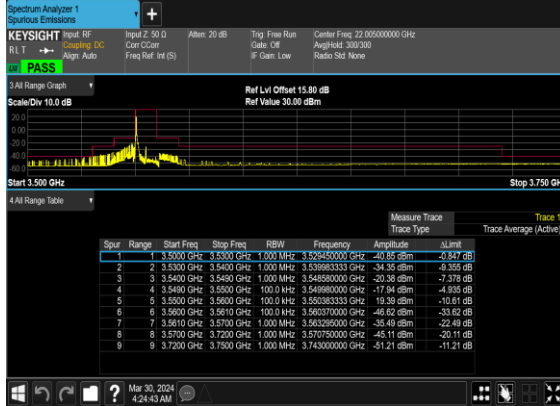


Conducted Band Edge

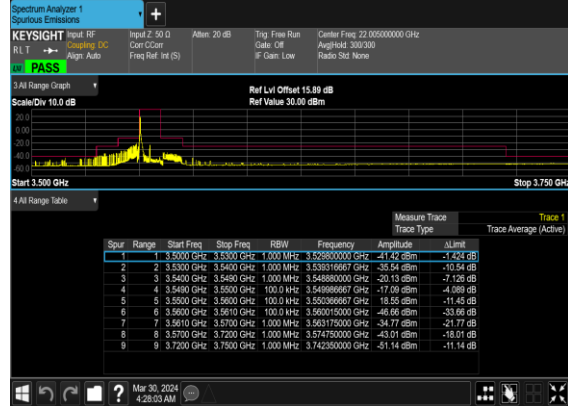
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@51	see 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
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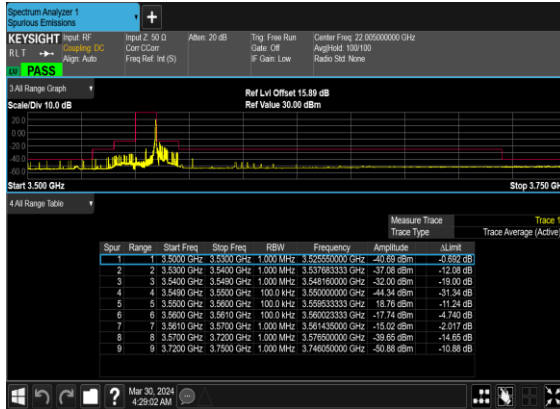
N48(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



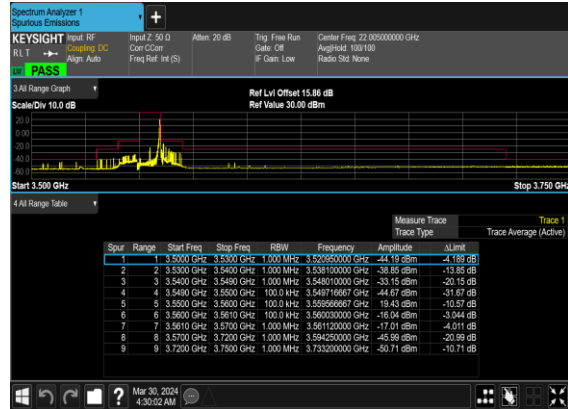
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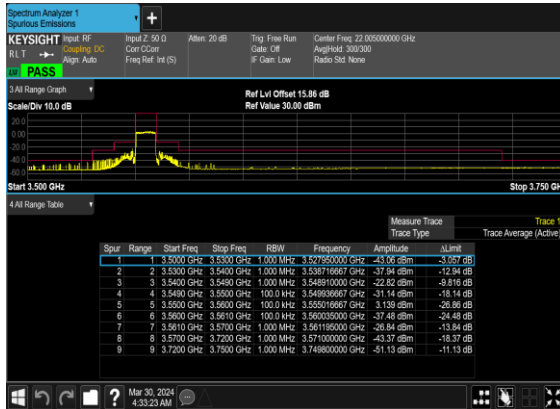
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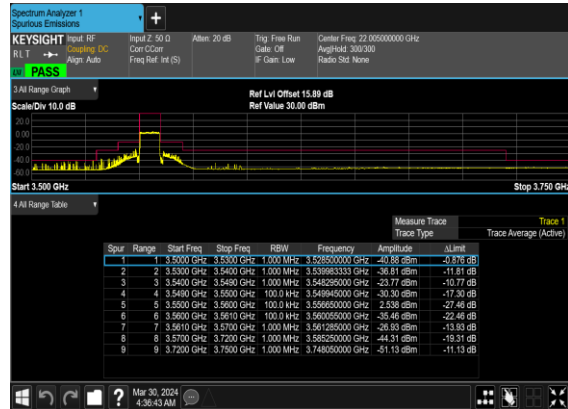
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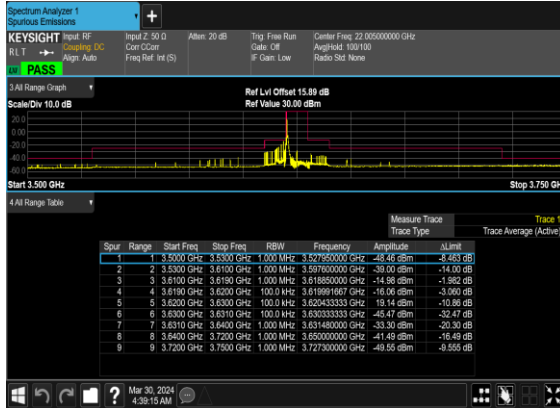
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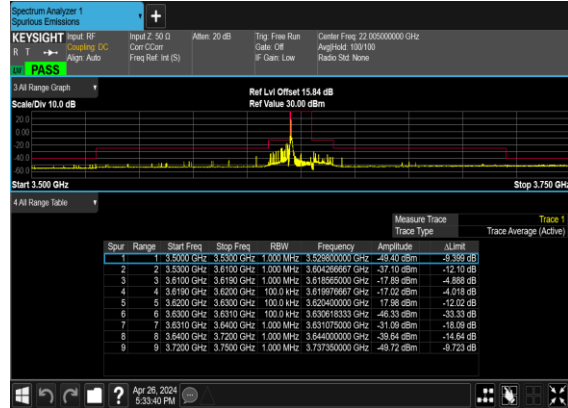
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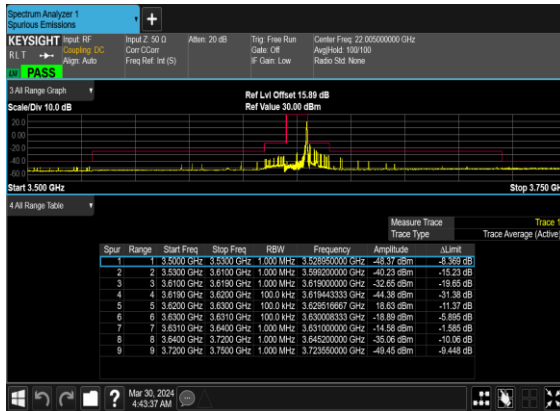
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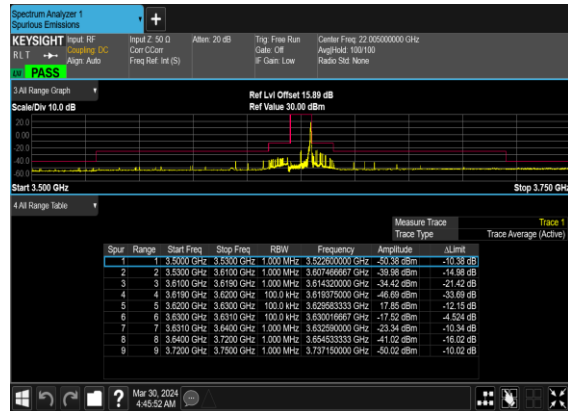
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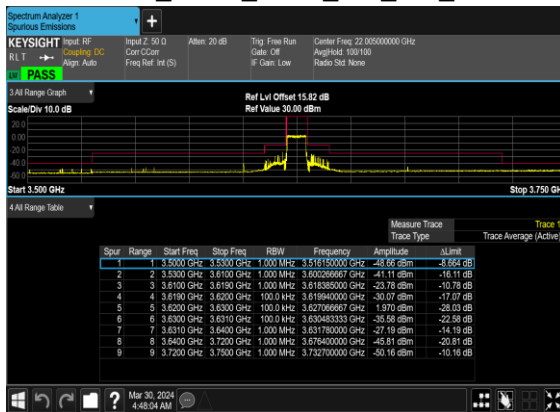
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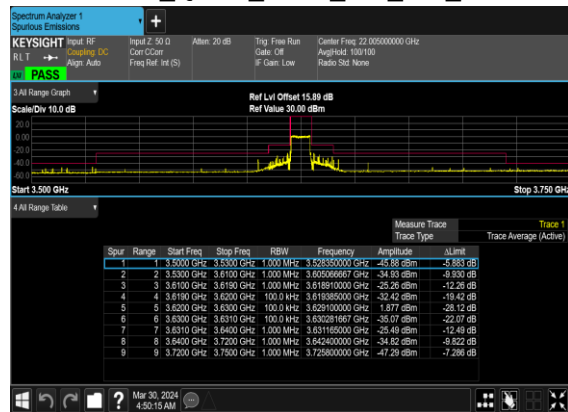
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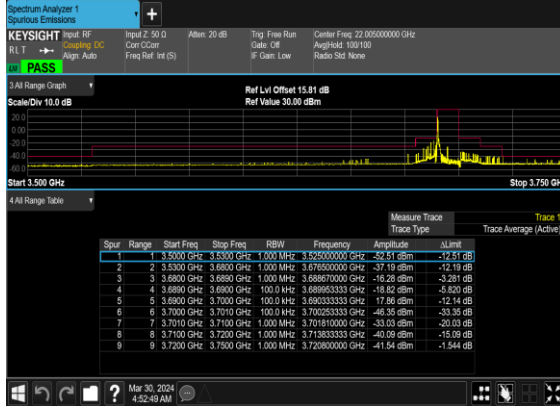
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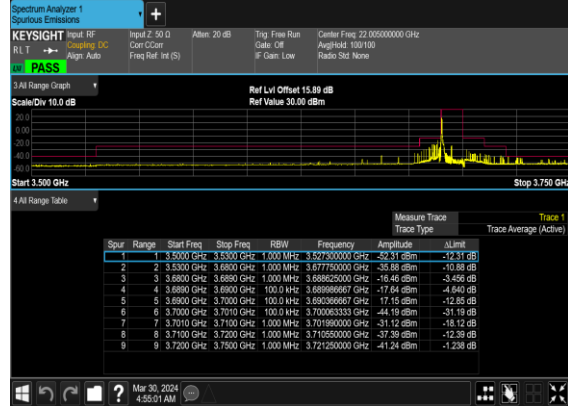
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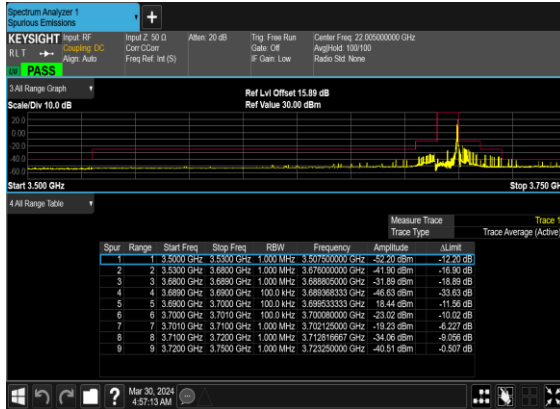
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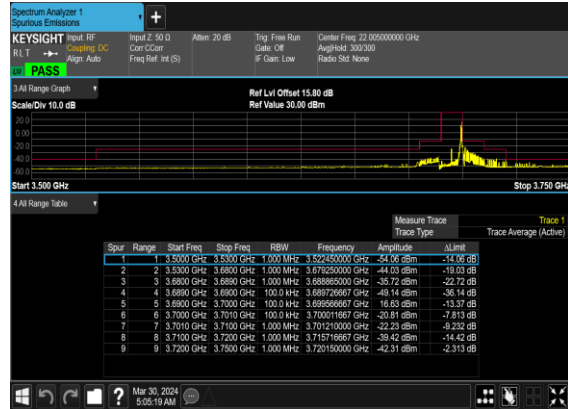
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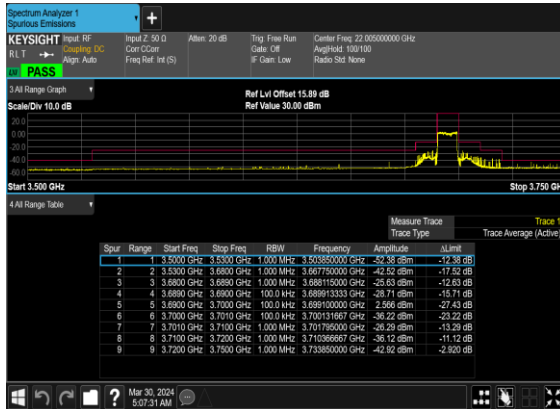
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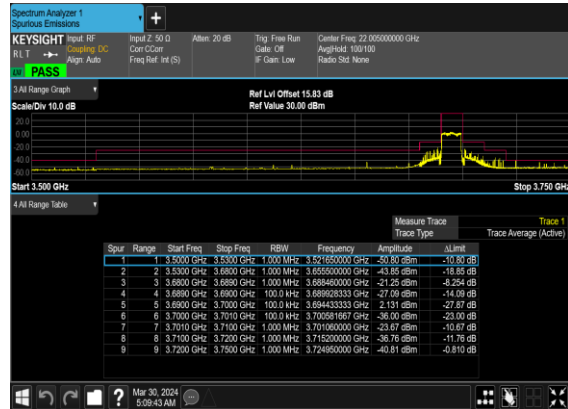
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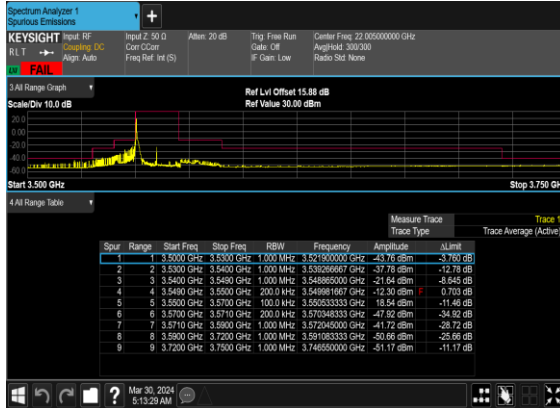
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



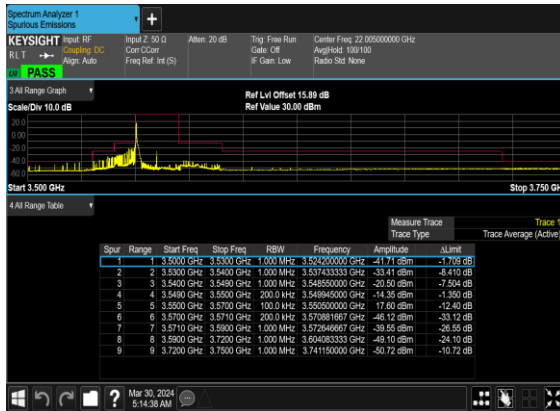
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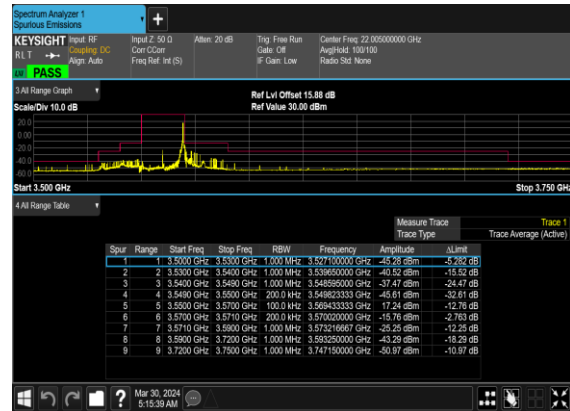
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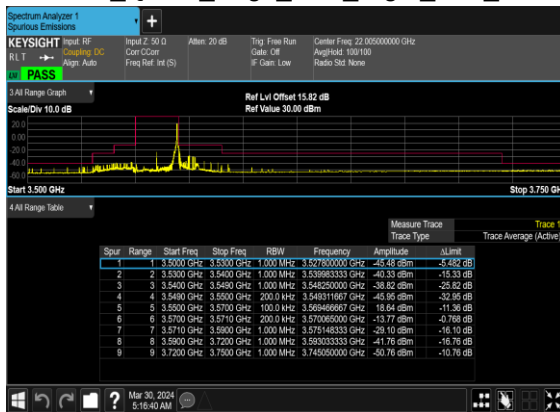
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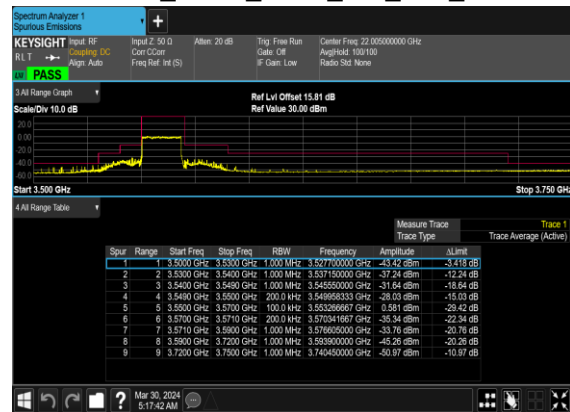
N48(20M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_Low_CH



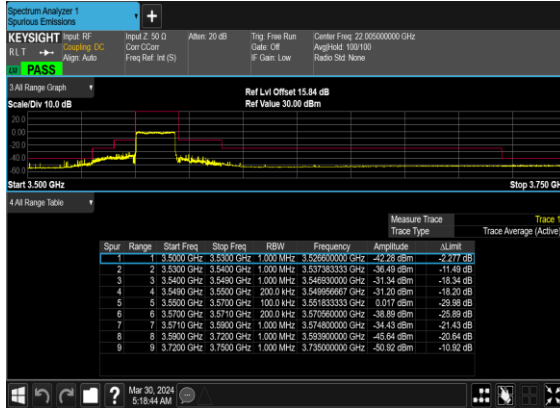
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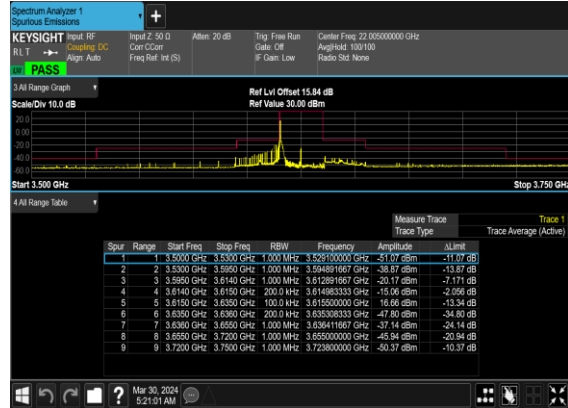
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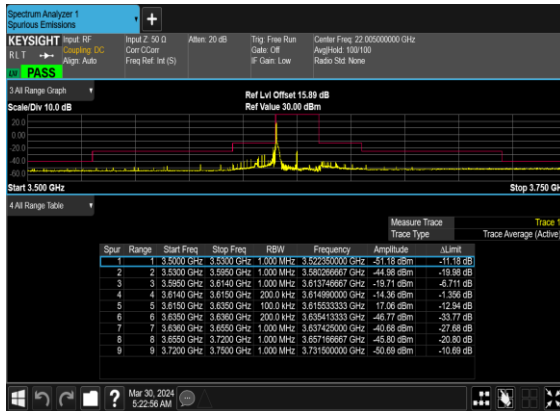
N48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



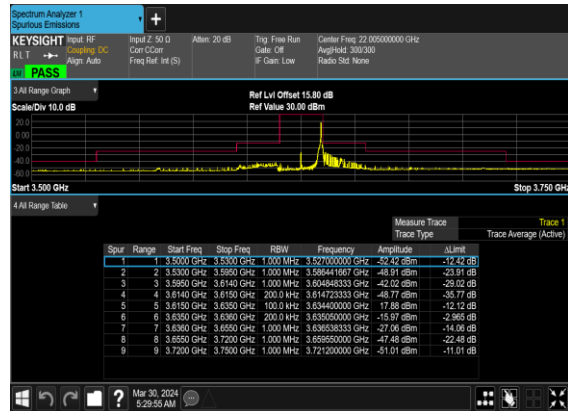
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



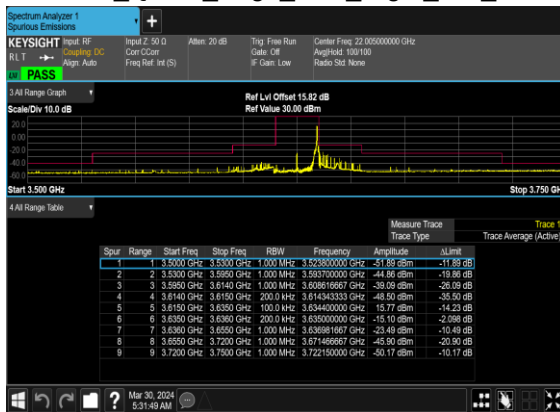
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OFDM_QPSK_Edge_1RB_Left_Mid_CH



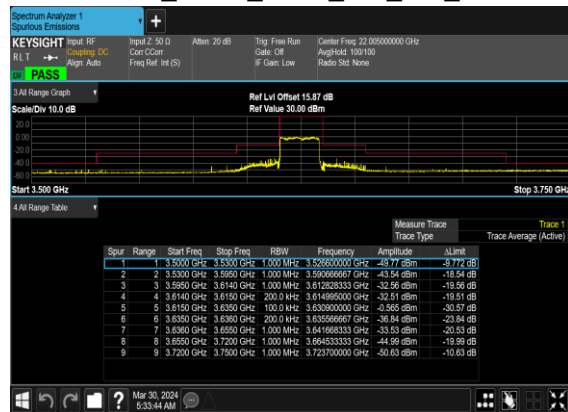
N48(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH



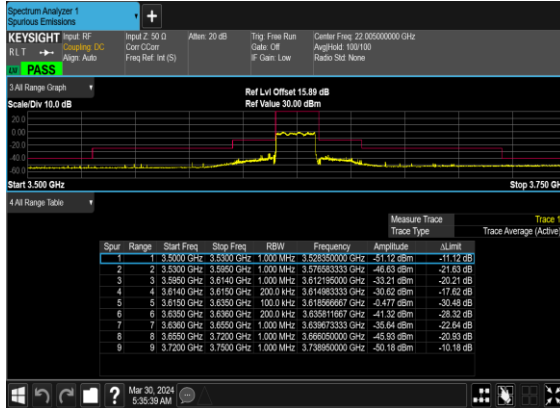
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OFDM_QPSK_Edge_1RB_Right_Mid_CH



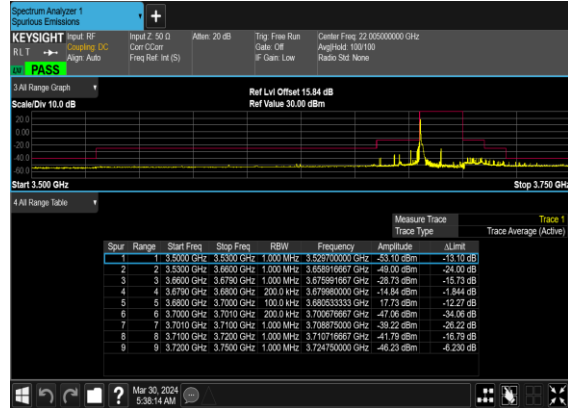
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OFDM_BPSK_Outer_Full_Mid_CH



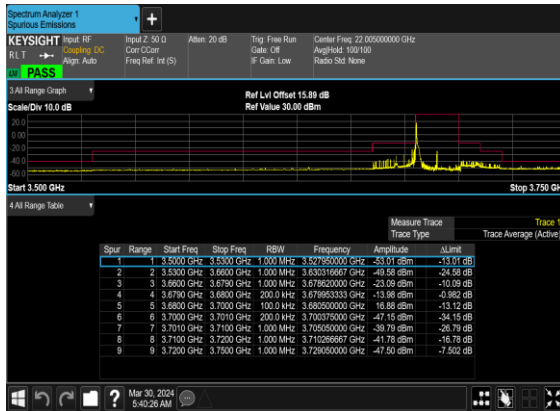
N48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



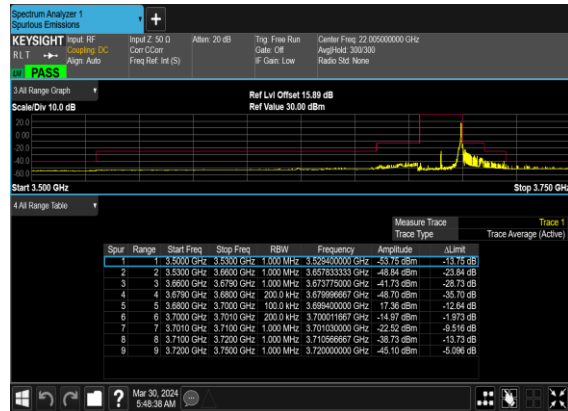
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OFDM_BPSK_Edge_1RB_Left_High_CH



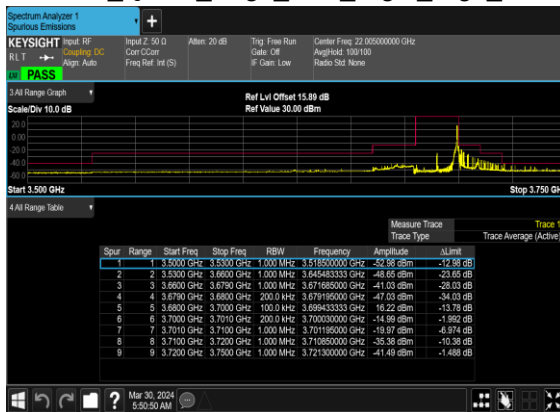
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OFDM_QPSK_Edge_1RB_Left_High_CH



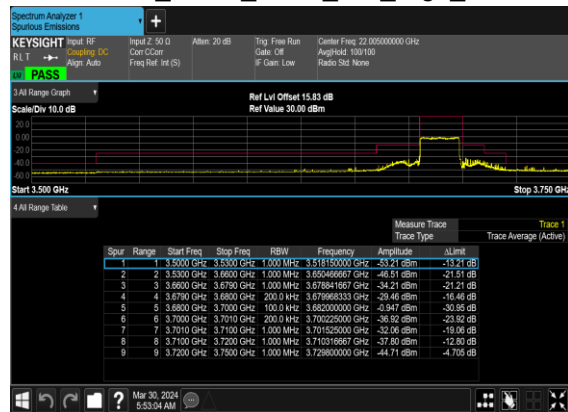
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OFDM_BPSK_Edge_1RB_Right_High_CH



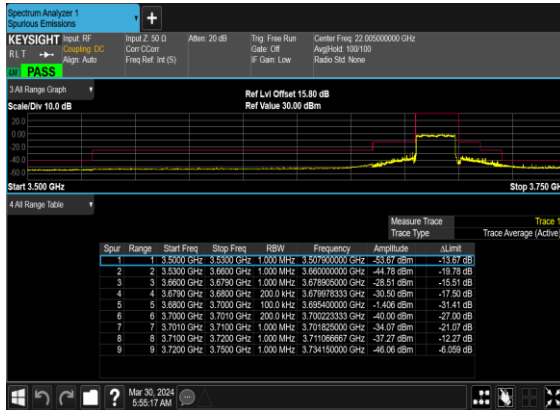
N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



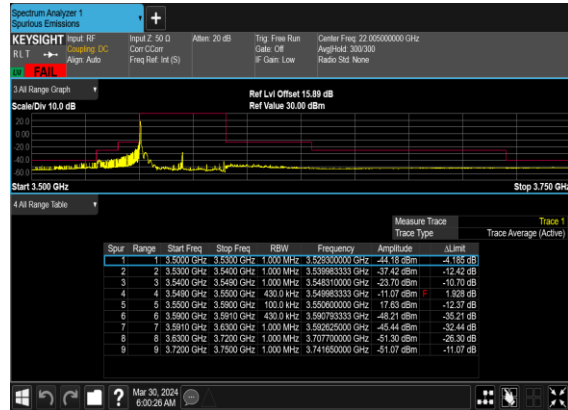
N48(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N48(20M)_DFT-s- OFDM_QPSK_Outer_Full_High_CH



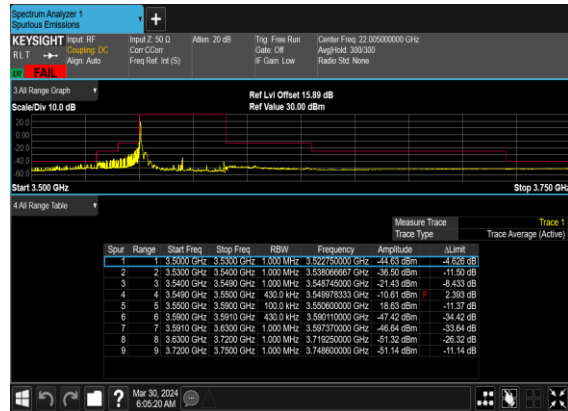
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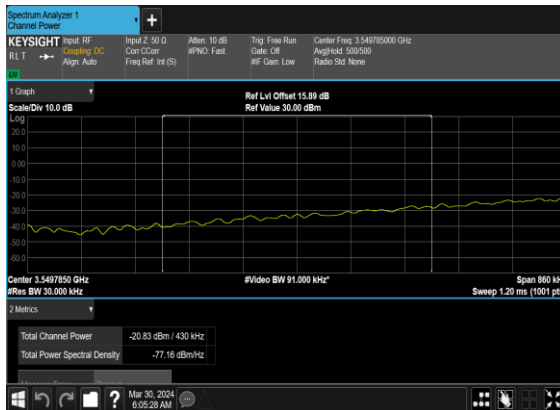
N48(40M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH_chp PASS



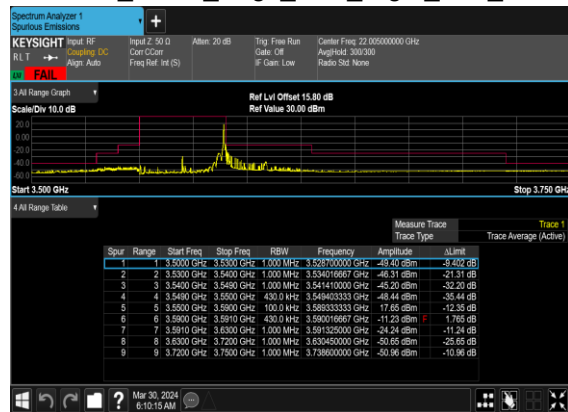
N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH_chp PASS



N48(40M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_Low_CH



Spectrum Analyzer 1
Channel Power

KEYSIGHT Input RF: *Channel A* OC
R/L T $\leftrightarrow$ Align: Auto

Input 2: 50.0
Corr: Corr
Freq: Ref Int (S)

Atten: 10 dB
#FNO: Fast

Trg: Free Run
Gate: Off
RF: Gain Low

Center Freq: 3.590215000 GHz
Assigned: 500500
Radio Std: None

1 Graph

Scale/Div 10.0 dB
Log

Ref Lvl Offset: 15.80 dBm
Ref Value: 30.00 dBm

Center 3.5902150 GHz
#BW 30.00 kHz

#Video BW 91.00 kHz*

Span 860 kHz
Sweep 1.20 ms (1001 pts)

2 Metrics

Total Channel Power	-20.71 dBm / 430 kHz
Total Power Spectral Density	-77.05 dBm/MHz

Mar 30, 2024
6:10:23 AM

Spectrum Analyzer 1
Spectrum Emulation

KEYSIGHT Input Ref: **Channel F0** **Fail**
 R.L.T. **↔** **Align: Auto**

Input Z: 50 Ω
 Center Freq: 3.500 GHz
 Span: 400 MHz

Att: 20 dB
 Trig: Free Run
 Ref Level Offset: 15.0 dBm
 Ref Value: 30.00 dBm

Scale/Div 10.0 dB
 Start 3.500 GHz
 Stop 3.750 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔUnit
1	1	3.5000 GHz	3.5000 GHz	1.000 MHz	3.529100000 GHz	-47.49 dBm	-7.384 dB
2	2	3.5000 GHz	3.5000 GHz	1.000 MHz	3.534916667 GHz	-48.19 dBm	-20.16 dB
3	3	3.5000 GHz	3.5000 GHz	1.000 MHz	3.545200000 GHz	-44.48 dBm	-31.28 dB
4	4	3.5000 GHz	3.5000 GHz	430.0 kHz	3.549866667 GHz	-47.53 dBm	-34.53 dB
5	5	3.5000 GHz	3.5000 GHz	1.000 MHz	3.589333333 GHz	-62.27 dBm	-11.73 dB
6	6	3.5000 GHz	3.5010 GHz	430.0 kHz	3.590035000 GHz	-10.51 dBm	2.05 dB
7	7	3.5010 GHz	3.6300 GHz	1.000 MHz	3.592625000 GHz	-27.76 dBm	-14.76 dB
8	8	3.5000 GHz	3.7200 GHz	1.000 MHz	3.636900000 GHz	-51.05 dBm	-26.05 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.739000000 GHz	-51.20 dBm	-11.20 dB

Spectrum Analyzer 1
Channel Power

KEYSIGHT Input: RF
 RLT $\rightarrow$ **Creeping DC**
 Align: Auto

Input Z: 50 Ω
 Corr: CCW
 Freq Ref: Int (S)

Att'n: 10 dB
 #NO: Fast

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

Center Freq: 3.590215000 GHz
 Arg/Mod: 500/500
 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

Ref Lut Offset: 19.09 dB
 Ref Value: 30.06 dBm

Center: 3.5902150 GHz
 #Res BW 30.00 kHz

#Video BW 91.00 kHz*

Span 860 kHz
 Sweep 1.20 ms (1001 pts)

2 Metrics

Total Channel Power	-21.99 dBm / 430 kHz
Total Power Spectral Density	-76.32 dBm/Hz

Mar 30, 2004
 6:16:16 AM

[illegible]

Keysight Spectrum Analyzer

Input RF **Coupling DC** **Span 20 dB** **Center Freq 22.00000000 GHz**

Ref Lvl Offset 15.00 dB **Span 100.00 GHz**

Scale/Div 10.0 dB **Ref Value 30.00 dBm**

Start 3.500 GHz **Stop 3.750 GHz**

4 dB Range Table

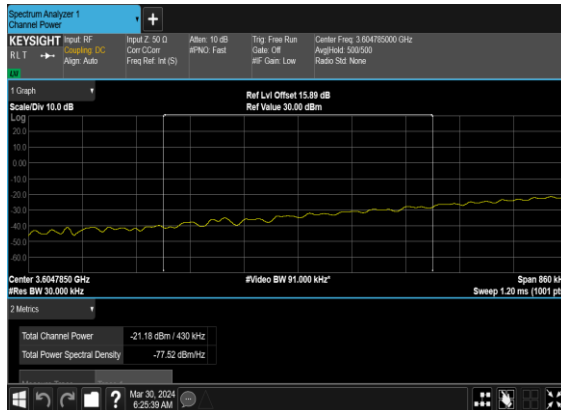
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔAmplitude
1	1	3.5000 GHz	3.5000 GHz	1.000 MHz	3.528750000 GHz	-21.28 dBm	-1.261 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.537500000 GHz	-21.28 dBm	-12.67 dB
3	3	3.5400 GHz	3.5400 GHz	1.000 MHz	3.545800000 GHz	-20.76 dBm	-15.76 dB
4	4	3.5400 GHz	3.5600 GHz	430.0 MHz	3.549791667 GHz	-30.21 dBm	-17.21 dB
5	5	3.5600 GHz	3.5800 GHz	1.000 MHz	3.573333333 GHz	-34.35 dBm	-33.43 dB
6	6	3.5800 GHz	3.5910 GHz	430.0 MHz	3.590016667 GHz	-30.41 dBm	-13.41 dB
7	7	3.5910 GHz	3.6200 GHz	1.000 MHz	3.596900000 GHz	-36.01 dBm	-29.81 dB
8	8	3.6300 GHz	3.7200 GHz	1.000 MHz	3.633150000 GHz	-46.27 dBm	-21.27 dB
9	9	3.7200 GHz	3.7500 GHz	1.000 MHz	3.742750000 GHz	-50.00 dBm	-10.00 dB

The screenshot displays the Keysight Spectrum Analyzer interface. At the top, it shows the instrument name "Spectrum Analyzer 1" and "Spurious Emissions". The main control area includes fields for Input (Ref), Frequency (3.750 GHz), Span (50.0 MHz), Resolution Bandwidth (RBW) (20 dB), Video Bandwidth (VBW) (Off), Center Frequency (22.00000000 GHz), Amplitude (40.0 dBm), and Reference Level (3.750 GHz). A red trace is visible on the screen, indicating a failure condition.

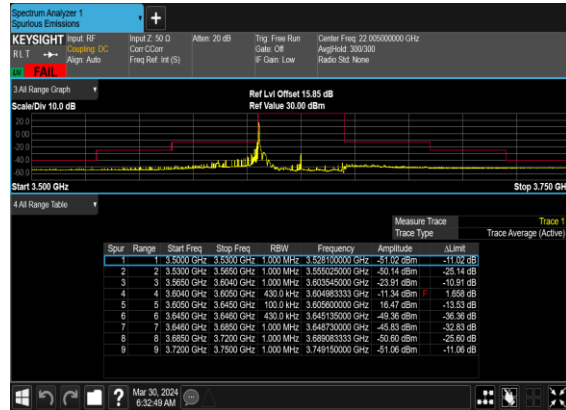
The bottom section contains a table titled "4 All Range Table" which lists various frequency ranges and their corresponding parameters:

Spor	Range	Start Freq	Stop Freq	RBW	Frequency	Amp Type	dBm
1		3.5000 GHz	3.5000 GHz	1.000 MHz	3.502300000 GHz	-52.17 dBm	-19.17 dB
2		3.5300 GHz	3.5650 GHz	1.000 MHz	3.562725000 GHz	-68.93 dBm	-23.93 dB
3		3.5850 GHz	3.6040 GHz	1.000 MHz	3.603645000 GHz	-23.62 dBm	-10.62 dB
4		3.6340 GHz	3.6500 GHz	430.0 kHz	3.64891867 GHz	-11.83 dBm	-1.83 dB
5		3.6500 GHz	3.6450 GHz	10.00 MHz	3.605600000 GHz	17.54 dBm	-12.46 dB
6		3.6450 GHz	3.6460 GHz	430.0 kHz	3.645180000 GHz	-49.26 dBm	-36.26 dB
7		3.6460 GHz	3.6850 GHz	1.000 MHz	3.647620000 GHz	-44.48 dBm	-31.48 dB
8		3.6850 GHz	3.7200 GHz	1.000 MHz	3.688885000 GHz	-51.23 dBm	-26.23 dB
9		3.7200 GHz	3.7500 GHz	1.000 MHz	3.745000000 GHz	-51.04 dBm	-11.04 dB

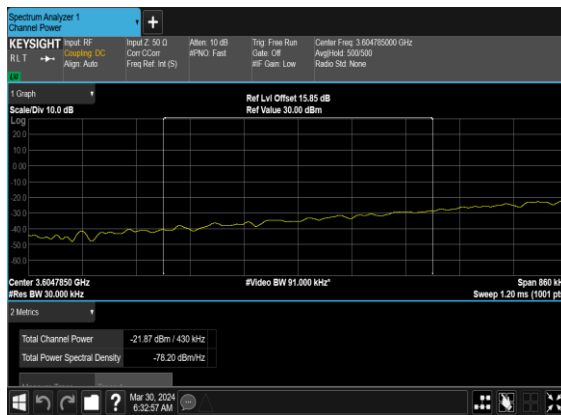
N48(40M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Mid_CH_Chp_P ASS



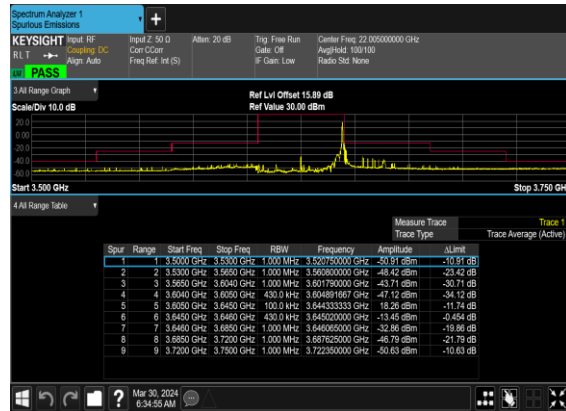
N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



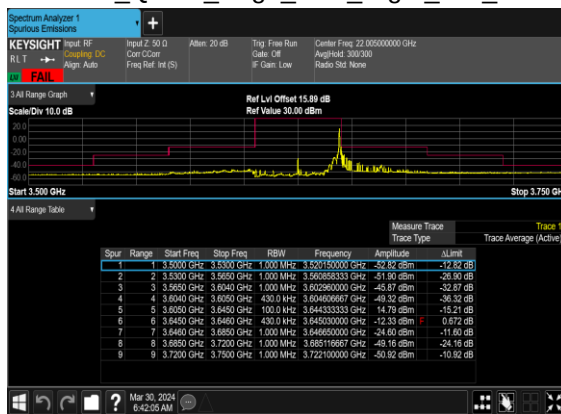
N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH_Chp_P PASS



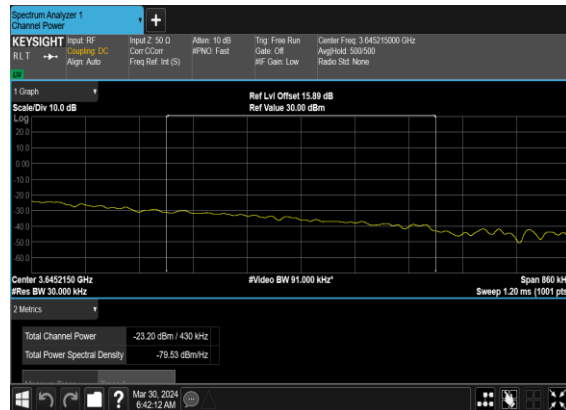
N48(40M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_Mid_CH



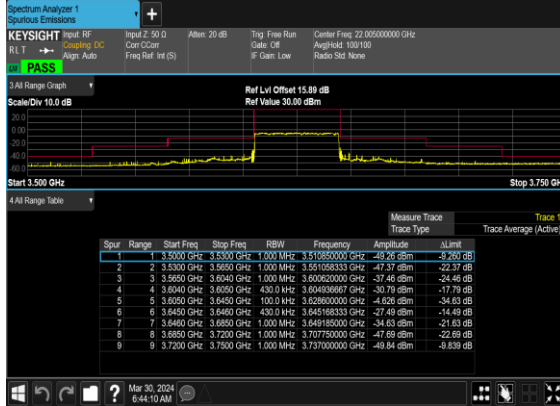
N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_Mid_CH



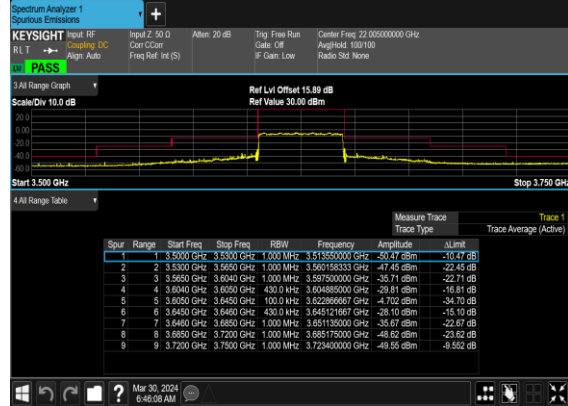
N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_Mid_CH_Chp_P PASS



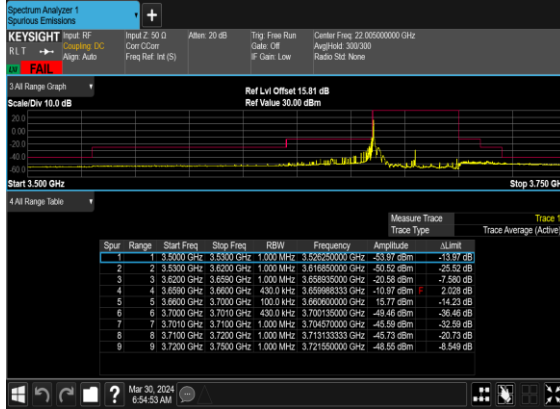
N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



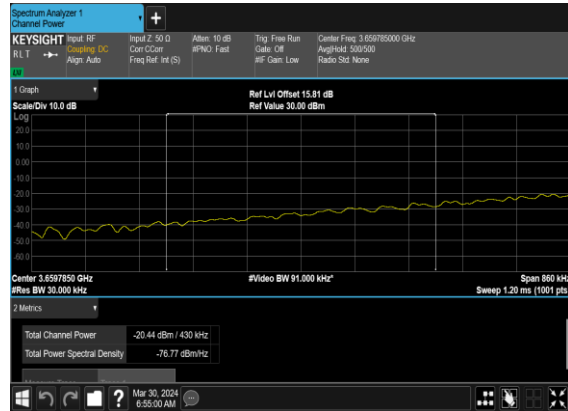
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



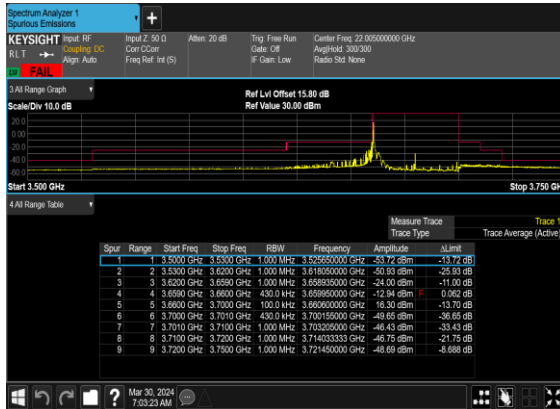
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



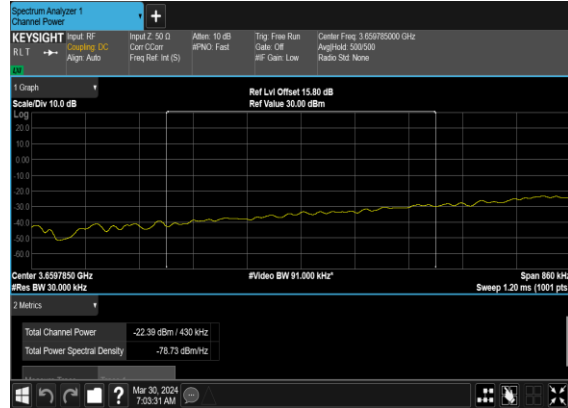
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH_chp_PASS



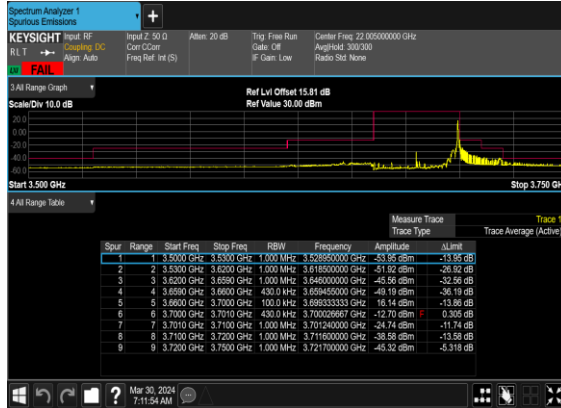
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



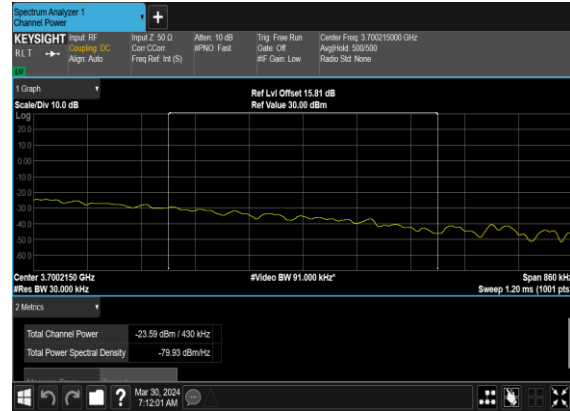
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH_chp_PASS



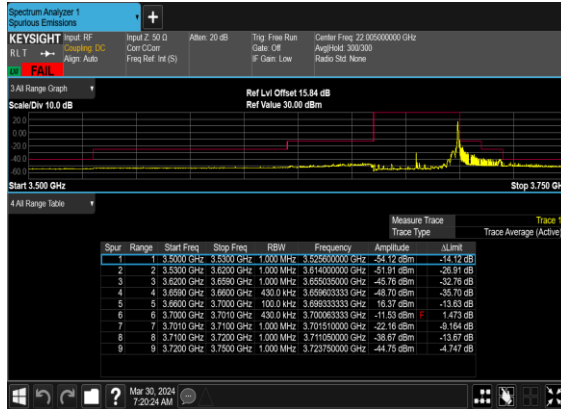
N48(40M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_High_CH



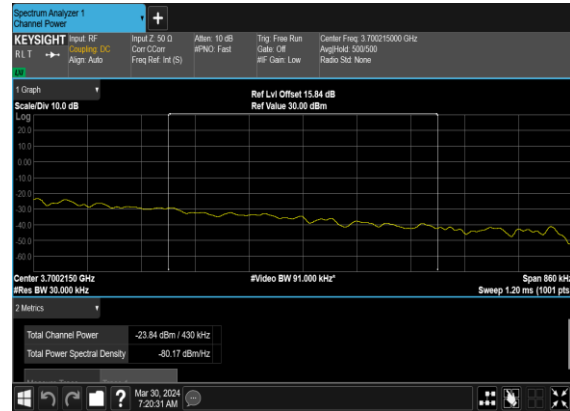
N48(40M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_High_CH_ch _PASS



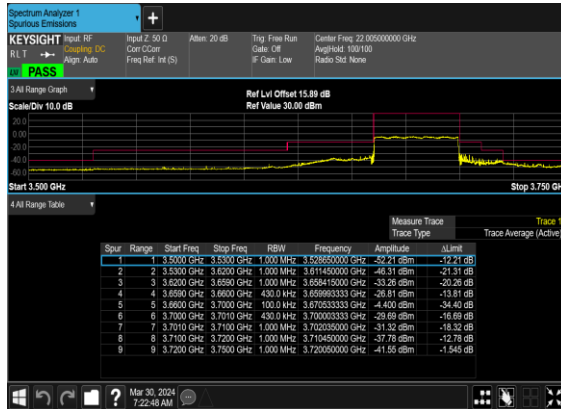
N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_High_CH



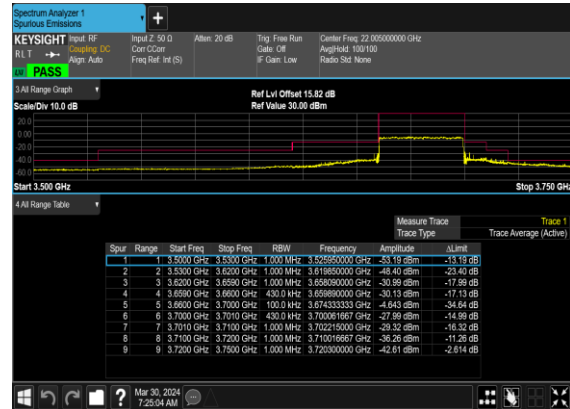
N48(40M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_High_CH_ch P_PASS



N48(40M)_DFT-s- OFDM_BPSK_Outer_Full_High_CH



N48(40M)_DFT-s- OFDM_QPSK_Outer_Full_High_CH



FR1 N48-SCS15K

LTE Band: 2, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=1dB

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
48	15	5	636834	3552.51	DFT-s-OFDM QPSK	1@1	20.52	20.52	0.1127
48	15	5	636834	3552.51	DFT-s-OFDM 16 QAM	1@1	19.76	19.76	0.0946
48	15	5	641667	3625.005	DFT-s-OFDM QPSK	1@1	20.71	20.71	0.1178
48	15	5	641667	3625.005	DFT-s-OFDM 16 QAM	1@1	19.52	19.52	0.0895
48	15	5	646500	3697.5	DFT-s-OFDM QPSK	1@1	20.91	20.91	0.1233
48	15	5	646500	3697.5	DFT-s-OFDM 16 QAM	1@1	19.72	19.72	0.0938
48	15	10	637000	3555	DFT-s-OFDM QPSK	1@1	20.62	20.62	0.1153
48	15	10	637000	3555	DFT-s-OFDM 16 QAM	1@1	19.66	19.66	0.0925
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.76	20.76	0.1191
48	15	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.63	19.63	0.0918
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	20.94	20.94	0.1242
48	15	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	19.82	19.82	0.0959
48	15	15	637168	3557.52	DFT-s-OFDM QPSK	1@1	20.76	20.76	0.1191
48	15	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@1	19.79	19.79	0.0953
48	15	15	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.98	20.98	0.1253
48	15	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.95	19.95	0.0989
48	15	15	646166	3692.49	DFT-s-OFDM QPSK	1@1	21	21	0.1259
48	15	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@1	20.03	20.03	0.1007
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	20.74	20.74	0.1186
48	15	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	19.61	19.61	0.0914
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.88	20.88	0.1225
48	15	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.73	19.73	0.0940
48	15	20	646000	3690	DFT-s-OFDM QPSK	1@1	21.02	21.02	0.1265
48	15	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	19.87	19.87	0.0971
48	15	30	637667	3565.005	DFT-s-OFDM QPSK	1@1	20.62	20.62	0.1153
48	15	30	637667	3565.005	DFT-s-OFDM 16 QAM	1@1	19.63	19.63	0.0918
48	15	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.73	20.73	0.1183
48	15	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.76	19.76	0.0946
48	15	30	645666	3684.99	DFT-s-OFDM	1@1	20.73	20.73	0.1183

QPSK									
48	15	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	19.75	19.75	0.0944
48	15	40	638000	3570	DFT-s-OFDM PI/2 BPSK	108@54	20.69	20.69	0.1172
48	15	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@1	20.61	20.61	0.1151
48	15	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@214	20.61	20.61	0.1151
48	15	40	638000	3570	DFT-s-OFDM QPSK	108@54	20.73	20.73	0.1183
48	15	40	638000	3570	DFT-s-OFDM QPSK	1@1	20.75	20.75	0.1189
48	15	40	638000	3570	DFT-s-OFDM QPSK	1@214	20.73	20.73	0.1183
48	15	40	638000	3570	DFT-s-OFDM 16 QAM	108@54	19.74	19.74	0.0942
48	15	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	19.69	19.69	0.0931
48	15	40	638000	3570	DFT-s-OFDM 16 QAM	1@214	19.66	19.66	0.0925
48	15	40	638000	3570	DFT-s-OFDM 64 QAM	108@54	18.18	18.18	0.0658
48	15	40	638000	3570	DFT-s-OFDM 64 QAM	1@1	18.24	18.24	0.0667
48	15	40	638000	3570	DFT-s-OFDM 64 QAM	1@214	18.21	18.21	0.0662
48	15	40	638000	3570	DFT-s-OFDM 256 QAM	108@54	16.14	16.14	0.0411
48	15	40	638000	3570	DFT-s-OFDM 256 QAM	1@1	16.13	16.13	0.0410
48	15	40	638000	3570	DFT-s-OFDM 256 QAM	1@214	16.11	16.11	0.0408
48	15	40	638000	3570	CP-OFDM QPSK	108@54	19.21	19.21	0.0834
48	15	40	638000	3570	CP-OFDM QPSK	1@1	18.96	18.96	0.0787
48	15	40	638000	3570	CP-OFDM QPSK	1@214	18.94	18.94	0.0783
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	108@54	20.83	20.83	0.1211
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	20.72	20.72	0.1180
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@214	20.71	20.71	0.1178
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	108@54	20.87	20.87	0.1222
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.84	20.84	0.1213
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@214	20.86	20.86	0.1219
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	108@54	19.87	19.87	0.0971
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.78	19.78	0.0951
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@214	19.76	19.76	0.0946
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	108@54	18.31	18.31	0.0678
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.3	18.3	0.0676
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@214	18.32	18.32	0.0679
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	108@54	16.27	16.27	0.0424
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	16.19	16.19	0.0416
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@214	16.22	16.22	0.0419
48	15	40	641666	3624.99	CP-OFDM QPSK	108@54	19.39	19.39	0.0869

48	15	40	641666	3624.99	CP-OFDM QPSK	1@1	19.04	19.04	0.0802
48	15	40	641666	3624.99	CP-OFDM QPSK	1@214	19.04	19.04	0.0802
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	108@54	20.95	20.95	0.1245
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@1	20.83	20.83	0.1211
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@214	20.72	20.72	0.1180
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	108@54	20.95	20.95	0.1245
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	21.05	21.05	0.1274
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@214	20.89	20.89	0.1227
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	108@54	19.97	19.97	0.0993
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	19.93	19.93	0.0984
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@214	19.86	19.86	0.0968
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	108@54	18.42	18.42	0.0695
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@1	18.47	18.47	0.0703
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@214	18.34	18.34	0.0682
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	108@54	16.39	16.39	0.0436
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@1	16.31	16.31	0.0428
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@214	16.23	16.23	0.0420
48	15	40	645332	3679.98	CP-OFDM QPSK	108@54	19.46	19.46	0.0883
48	15	40	645332	3679.98	CP-OFDM QPSK	1@1	19.16	19.16	0.0824
48	15	40	645332	3679.98	CP-OFDM QPSK	1@214	19.05	19.05	0.0804