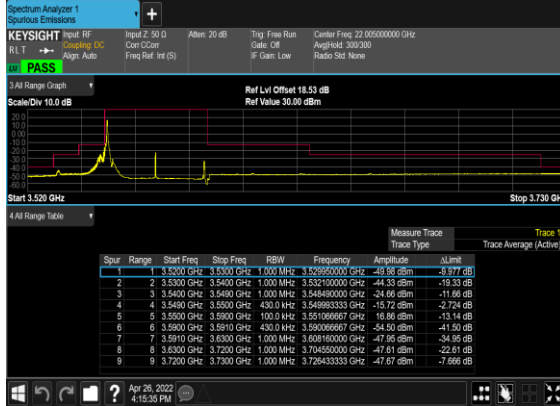
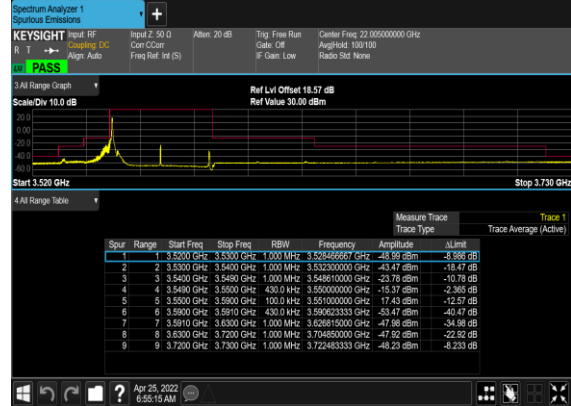


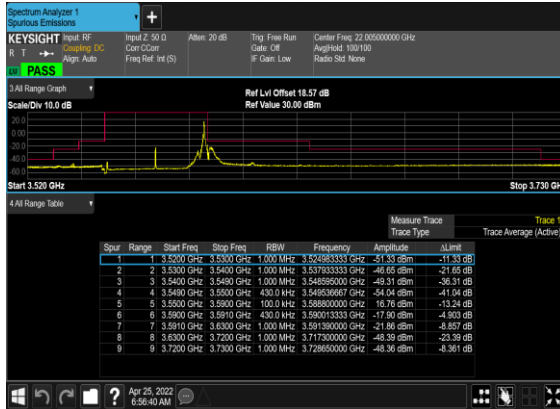
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



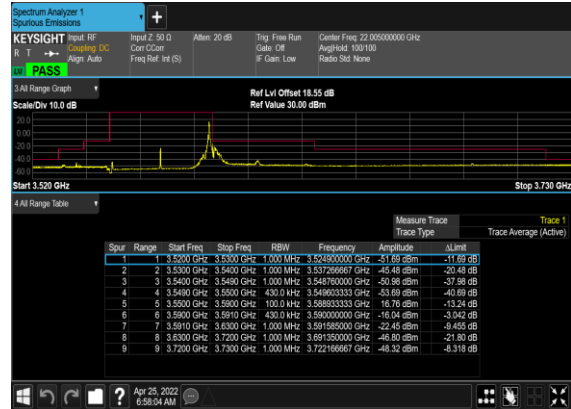
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



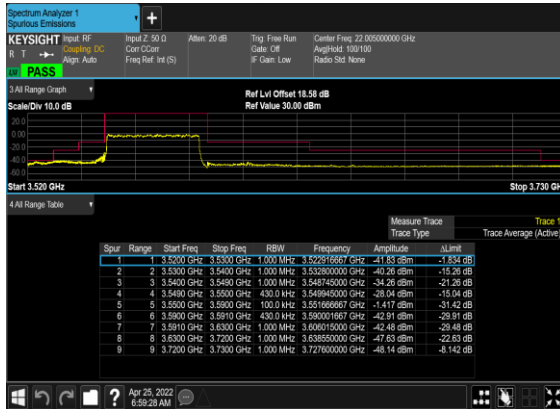
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



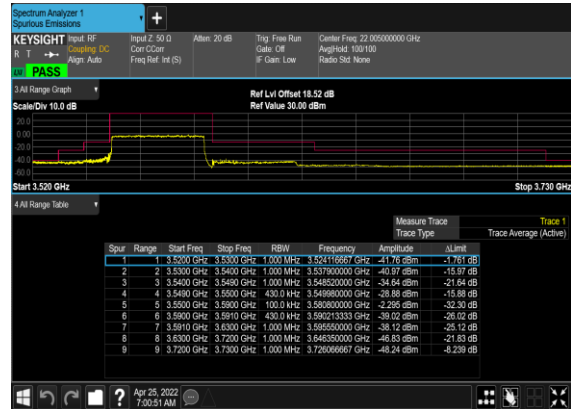
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



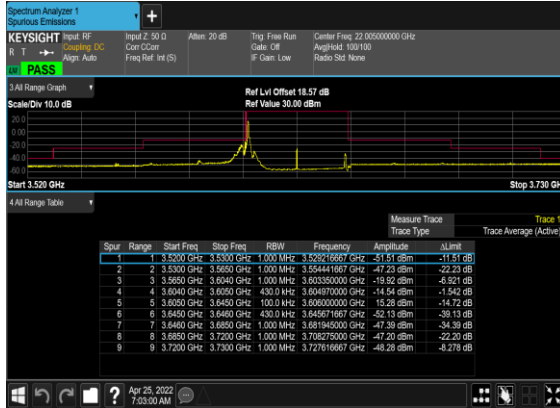
N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



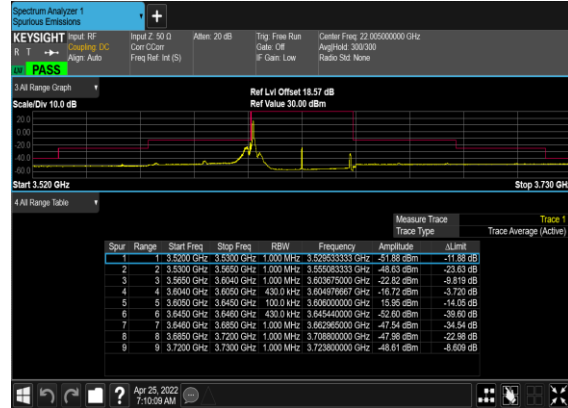
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



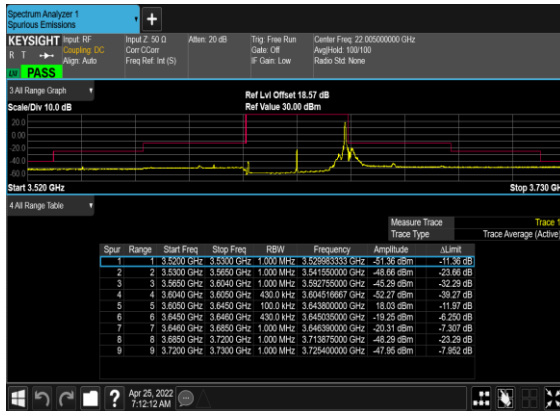
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



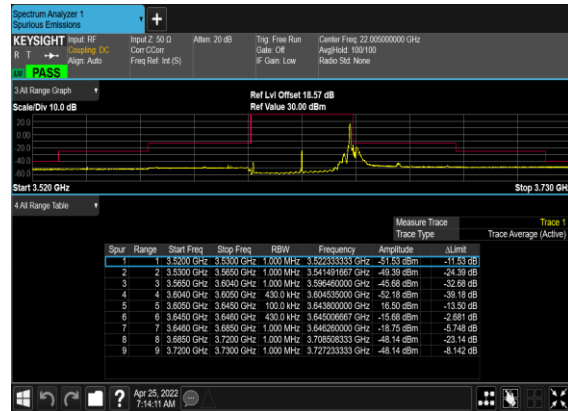
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



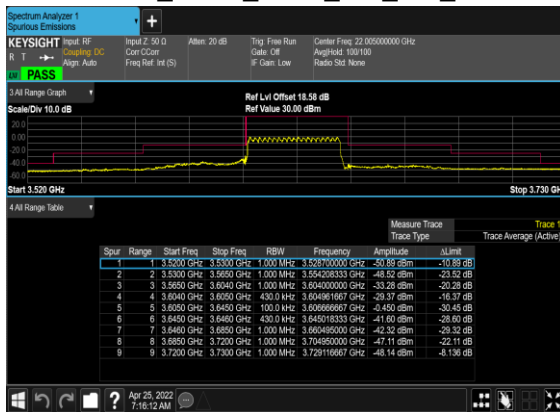
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



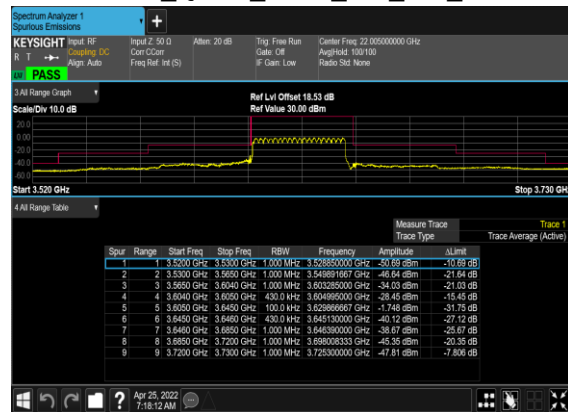
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



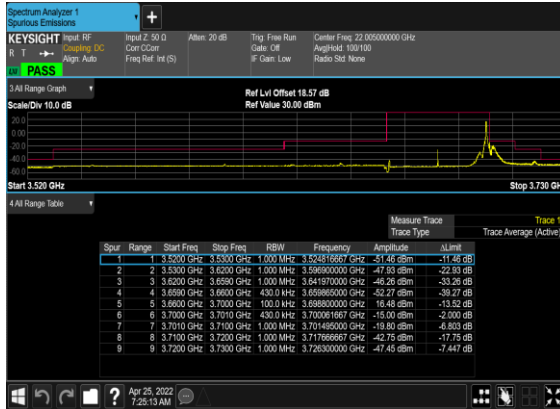
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



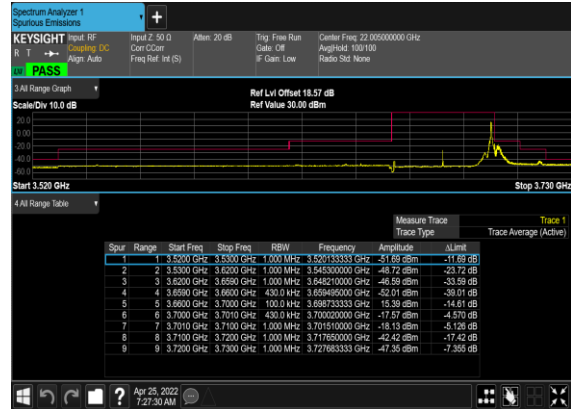
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



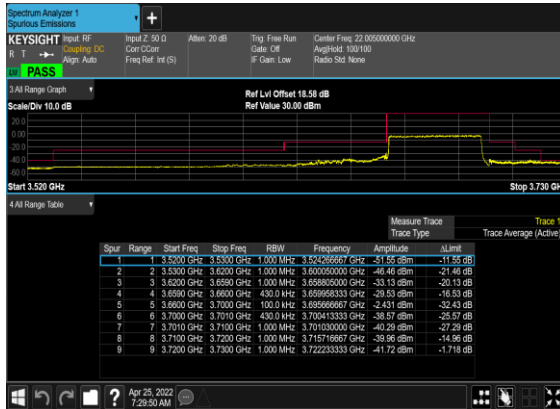
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



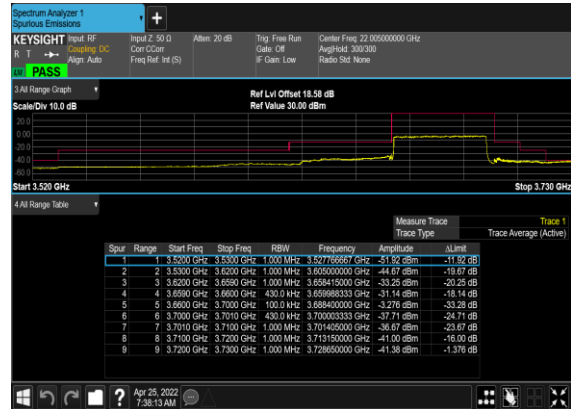
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



FR1 N48 (MIMO ANT7)

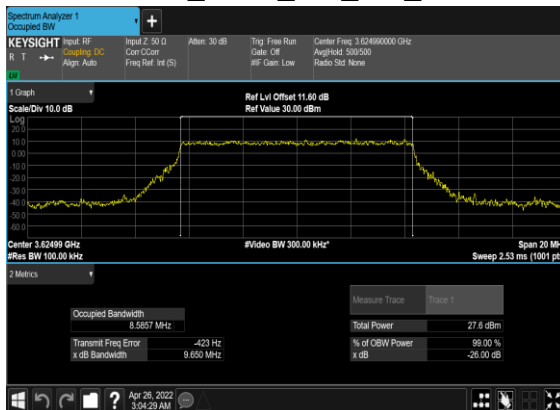
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00376	PASS	NV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00388	PASS	LV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00692	PASS	HV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00649	PASS	-30°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00504	PASS	-20°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00026	PASS	-10°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00201	PASS	0°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00681	PASS	10°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00329	PASS	20°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00325	PASS	30°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00689	PASS	40°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.00344	PASS	50°C

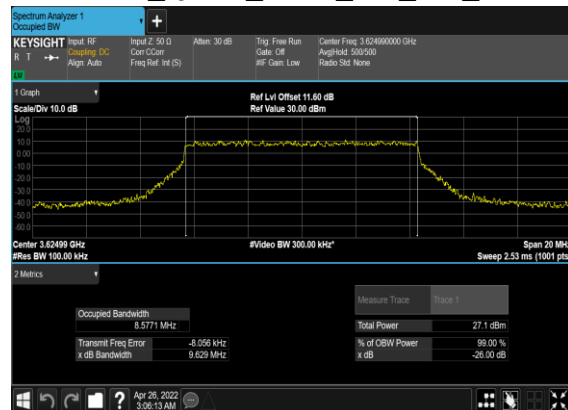
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	24@0	8.5857	9.65
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	8.5771	9.629
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.5741	9.541
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.6038	9.515
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5754	9.805
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.595	9.881
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	17.767	18.95
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	17.828	19.01
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.22	19.77
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.189	19.36
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.201	19.68
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.174	19.69
48	30	30	641666	3624.99	DFT-s-OFDM PI/2 BPSK	75@0	26.729	28.34
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	75@0	26.758	28.21
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.804	29.4
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.835	29.33
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.805	29.4
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.815	29.24
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	35.724	37.28
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	35.725	37.33
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.754	39.56
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.768	39.72
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.761	39.79
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.767	39.53

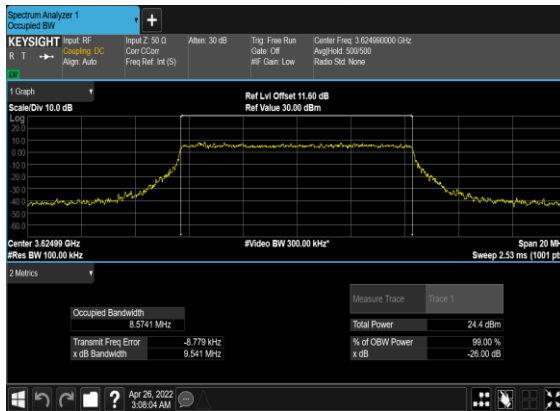
N48(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



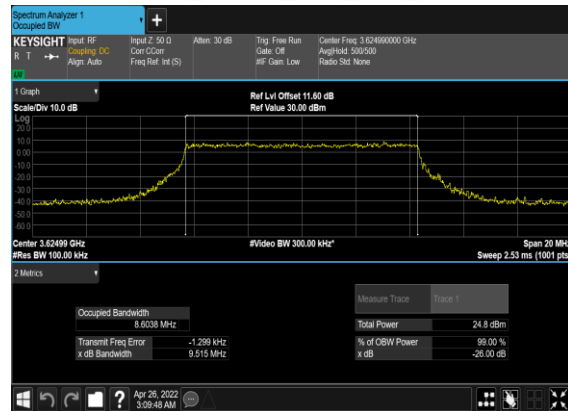
N48(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



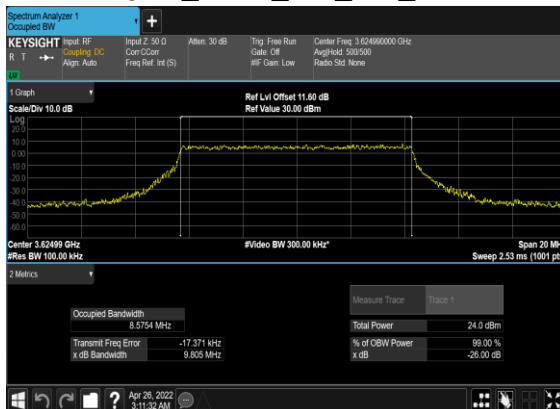
N48(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



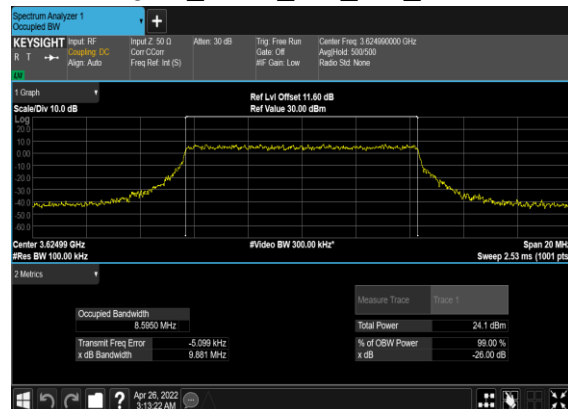
N48(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



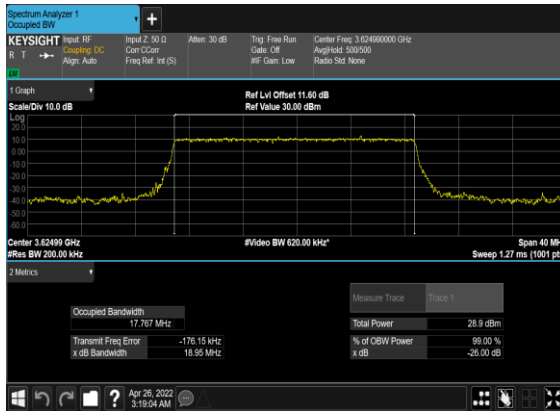
N48(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



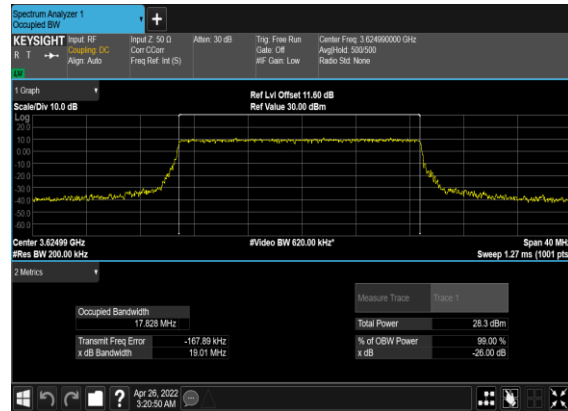
N48(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



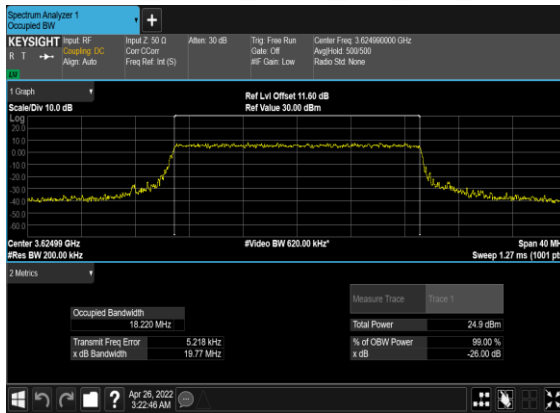
N48(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



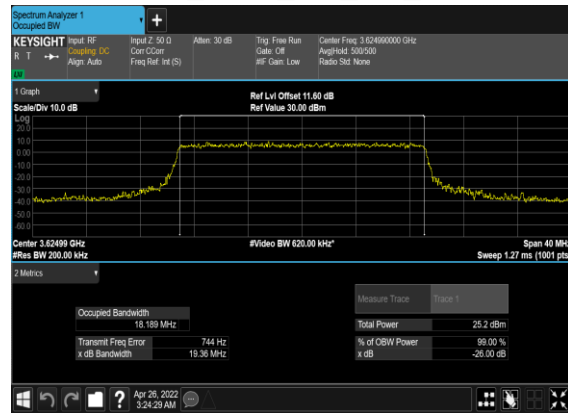
N48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



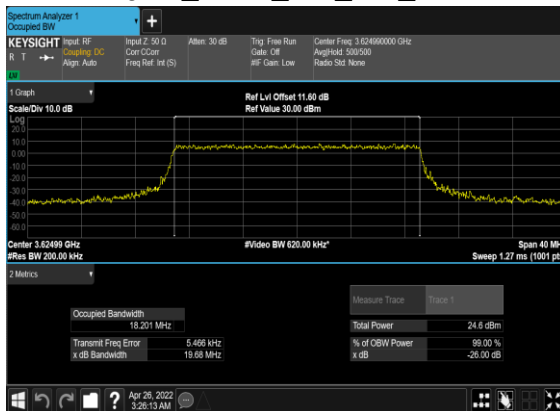
N48(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



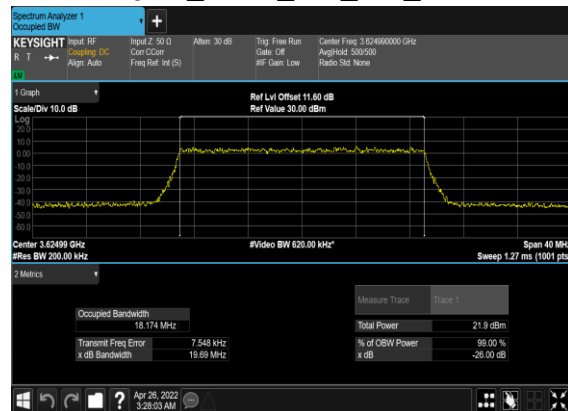
N48(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



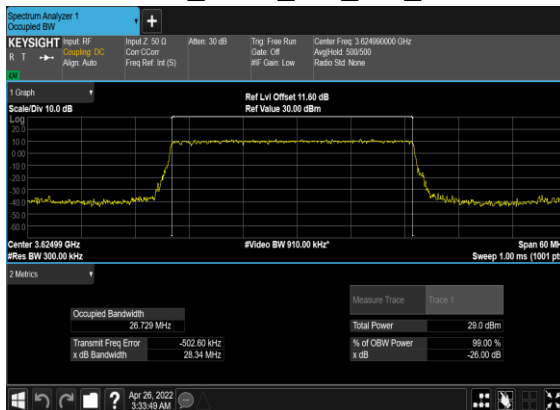
N48(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



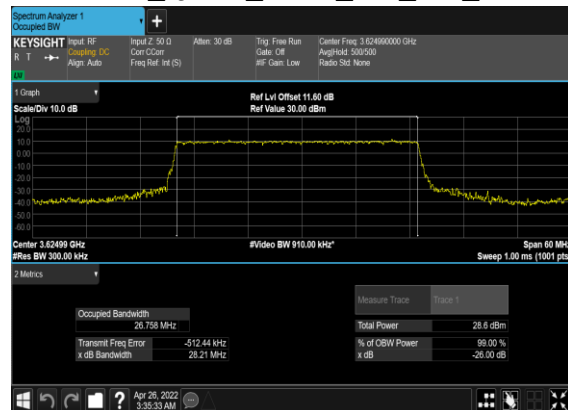
N48(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



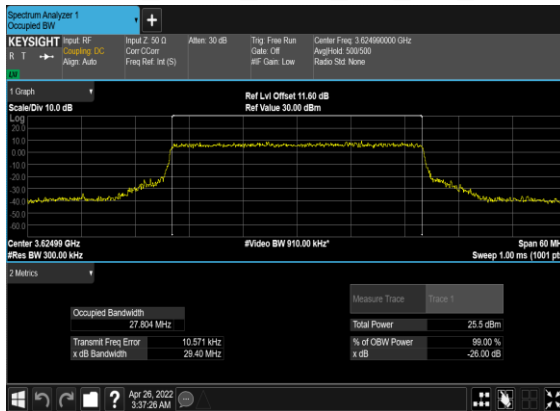
N48(30M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



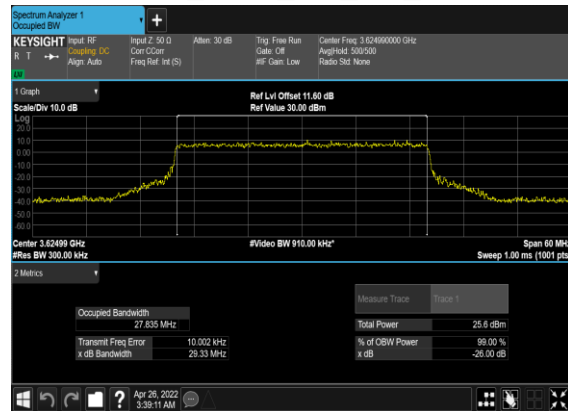
N48(30M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



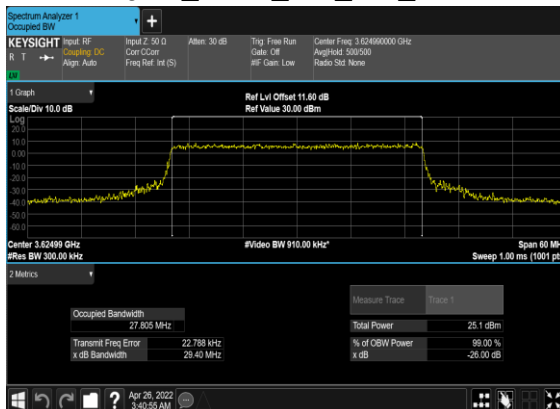
N48(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



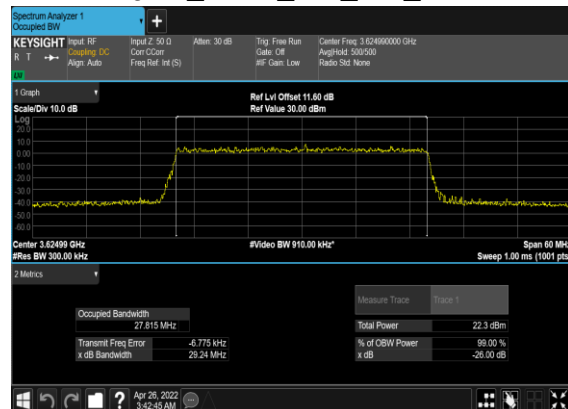
N48(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



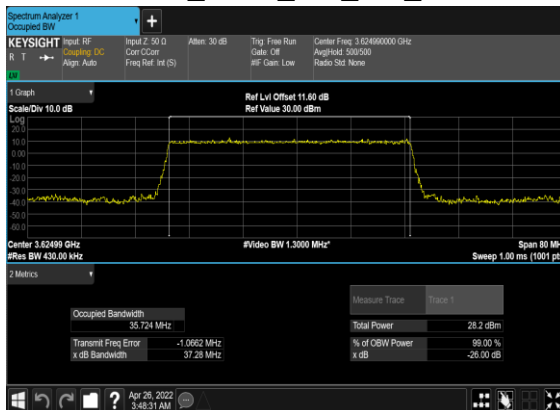
N48(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



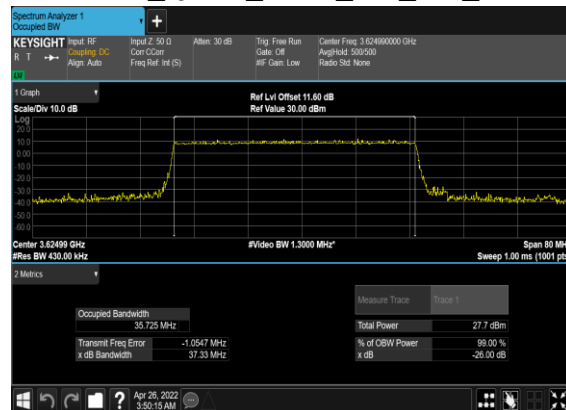
N48(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



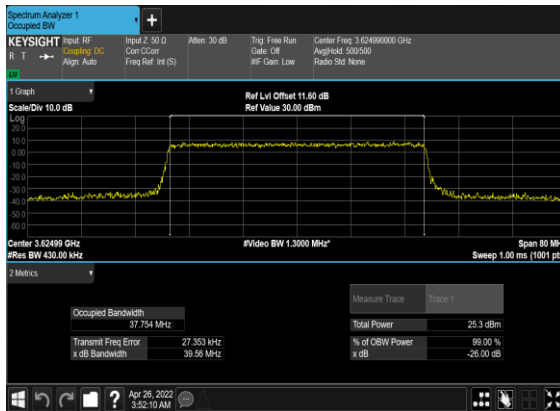
N48(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



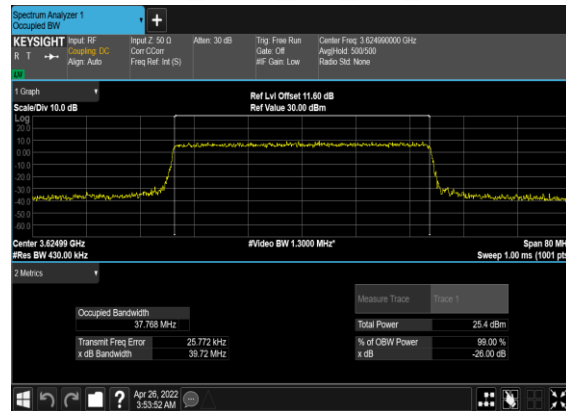
N48(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



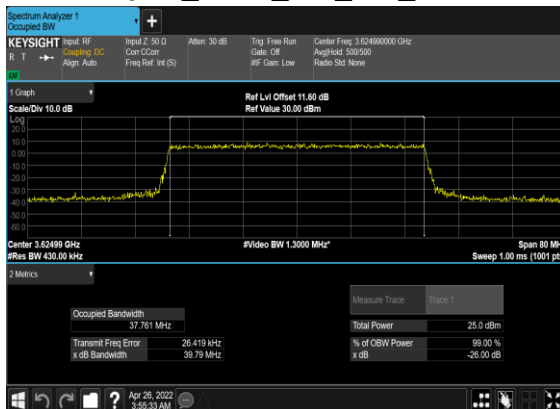
N48(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



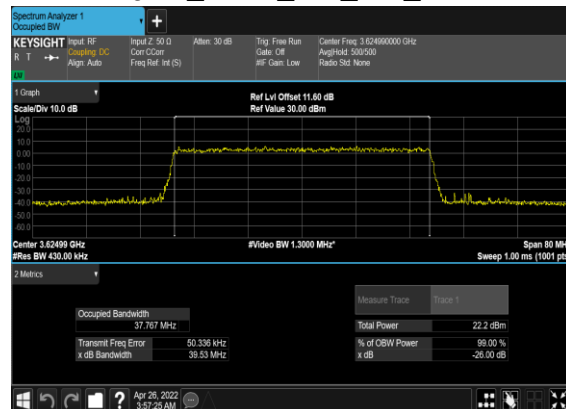
N48(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



Adjacent Channel Leakage Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	24@0	-15.03	-16.12	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@0	-10.25	-23.45	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@23	-23.3	-11.7	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	-14.33	-14.74	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	-10.65	-22.88	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	-22.87	-12.78	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	24@0	-15.39	-15.5	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-9.53	-20.4	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@23	-22.68	-15.27	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	-15.53	-14.03	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	-12.7	-22.12	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	-19.77	-11.76	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	24@0	-14.94	-15.64	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@0	-9.93	-19.77	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@23	-19.73	-11.08	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	-14.92	-13.68	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	-10.99	-19.84	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	-20.27	-11.91	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	50@0	-17.22	-16.8	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@0	-12.92	-21.09	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@50	-21.18	-13.56	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	-14.48	-14.88	see graph	PASS

48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	-12.27	-20.66	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	-20.57	-13.22	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	-16.14	-16.4	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-12.12	-18.71	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@50	-19.77	-12.58	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	-14.99	-15.28	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	-11.95	-17.91	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	-18.44	-13.53	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	50@0	-15.25	-16.36	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@0	-9.57	-16.58	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@50	-18.16	-12.81	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	-13.13	-14.12	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	-10.99	-17.32	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	-17.21	-12.36	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	100@0	-14.6	-13.55	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@0	-13.83	-15.82	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@105	-16.36	-13.55	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	-13.71	-12.65	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	-12.82	-14.46	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	-15.66	-13.23	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	-14.02	-13.76	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-14.2	-16.76	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@105	-16.96	-13.27	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	-13.37	-13.3	see graph	PASS

48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	-12.76	-14.73	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	-12.74	-10.33	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	100@0	-13.61	-13.75	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@0	-12.69	-14.45	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@105	-15.02	-12.26	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	-12.78	-12.92	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	-12.62	-13.93	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	-14.22	-11.48	see graph	PASS

Spectrum Analyzer 1 ACP

KEYSIGHT Input: RF, Output: DC, Trigger: Auto, Preset: PASS

Input 2: 50 Ω, Port: C-Cor, Freq Ref: Int (s), Att: 30 dB, PWR: Best Wide, Trig: Free Run, Gate: Off, Center Freq: 3.55500000 GHz, ARef: 40, 150 dBm, Noise: Off, Noise Correction: Off

1 Graph, Scale/Div: 10.0 dB, Ref Lvl Offset: 19.53 dBm, Ref Value: 39.93 dBm

Center: 3.55500 GHz, Span: 30 MHz, #Res: BW 100 kHz, Sweep: 20.0 ms (1001 pt)

2 Metrics

Total Car Pwr	21.293 dBm/10.0 MHz	Measure Trace	Trace Type	Trace Average (Active)
Total PSD	-			

			ACP	Lower	Reference		ACP	Upper	Reference	
Offs Freq	Integ BW	dBc	dBm	dBm	dBm	Car #	dBc	dBm	dBm	Car #
A	10.00 MHz	10.00 MHz	-45.03	-23.74	21.29	1	-46.12	-24.83	21.29	1 -3 dB

Spectrum Analyzer 1
ACPR

KEYSIGHT Input RF
R T → Coagging DC
Appl: Auto

Input 2: 50.0
Cen C: 3.555000 MHz
Ref Freq: 1st (S)

Att: 30.0 dB
PNO: Best Wide

Trig: Free Run
Gate: Off
IF Gain: Low

Center Freq: 3.555000000 MHz
Assigned: 151150
Ratio Set: None
Noise Correction: Off

1 Graph
Scale Div: 10.0 dB

Ref Lvl Offset: 18.57 dB
Ref Value: 39.87 dBm

30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0

40.3 (S)

21.4 (dBm)

53.4 (S)

Center: 3.55500 MHz
#Res BW: 100 kHz
Video BW: 300.00 kHz

Span: 10 MHz
Sweep: 20.0 ms (1001 pt)

2 Metrics

Total Car Pair	21.419 dBm/10.00 MHz	Measure Trace	Trace Type	Trace Average (Active)
Total PSD	---			

Lower				Upper			
Offs Freq	Integ BW	dBc	dBm	Reference	ACPR	Reference	ACPR
A: 10.00 MHz	10.00 MHz	-40.25	-18.83	21.42	1	-53.45	-32.03
				21.42	1	-3	dB

Spectrum Analyzer 1
ACP

KEYSIGHT Input RF
 R T → → → Centering DC
 Auto Align
PASS

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

Att: 30 dB
 PNO: Best Wide

Trig Freq Run
 Gate: Off
 IF Gain: Low

Center Freq: 3.55500000 GHz
 ArgH44: 131150
 Ratio Set: None
 Noise Correction: Off

1 Graph
 Scale/Div 10.0 dB
 Ref Lvl Offset: 19.57 dBm
 Ref Value 39.97 dBm

Span 30 MHz
 #Video BW 300.00 MHz

Center: 3.55500 GHz
 #Res BW 100 kHz

Sweep 20.0 ms (1001 pts)

2 Metrics

Total Car Power	21.135 dBm/10.0 MHz	Measure Trace	Trace Type	Trace Average (AC)
Total PSD	---			

Lower				Upper			
Offs Freq	Integ BW	dBc	dBm	ACP	Reference	ACP	Reference
				dBm	Car #	dBm	Car #
A	10.00 MHz	10.00 MHz	-53.30	-32.16	21.14	1	-41.70
							-20.56
							21.14
							1 -3 dB

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Spectrum Analyzer 1
ACP

KEYSIGHT Input RF
R T $\rightarrow$ **Channeling DC**
Align Auto

Input Z: 50 Ω
Cort Corr
Freq Ref: 1st (S)

Attm: 30 dB
PNO: Best Wide

Trig: Free Run
Gate: Off
S: Gain Low

Center Freq: 3.55500000 GHz
Assigned: 1011510
Ratio Set: None
Noise Correction: Off

IN PASS

1 Graph
Scale/Div: 10.0 dB

Ref Lvl Offset: 18.56 dBm
Ref Value: 39.96 dBm

Center 3.55500 GHz
#Res BW 100 kHz

#Video BW 300.00 MHz

Span 30 MHz
Sweep 20.0 ms 100 MHz

2 Metrics

Total Cn Pair	20.750 dBm/10.00 MHz	Measure Trace	Trace Type	Trace Average (ACQ)
Total PSD	-			

		ACP		Lower		Reference		ACP		Upper		Reference		Filter	
Offs Freq	Integ BW	dBc	dBm	dBm	Car #	dBc	dBm	dBm	Car #	dBc	dBm	dBm	Car #	dBc	Filter
A	10.00 MHz	10.00 MHz	-44.33	-23.58	20.75	1	-44.74	-23.99	20.75	1	-3	dB			

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The screenshot displays the Keysight Spectrum Analyzer 1 ACP interface. The top panel shows the signal source as 'Input RF' and the center frequency as 'Center Freq: 3.555000000 GHz'. The main display area shows a spectrum plot with a peak at 10.00 MHz. The peak is labeled with 'Ref Lvl Offset: 19.57 dB' and 'Ref Value: 39.57 dBm'. The plot shows a signal level of -40.65 dBc at 10.00 MHz. The bottom panel shows the 'ACP' (Automatic Control Panel) with various parameters including 'Offs Freq', 'Integ BW', 'dBc', 'dBm', 'Reference', 'Car #', 'ACP', 'dBm', 'Reference', 'Car #', and 'Filter'. The 'ACP' section is currently set to 'Lower' and 'Reference'.

Offs Freq	Integ BW	dBc	dBm	Reference	Car #	ACP	dBm	Reference	Car #	Filter
10.00 MHz	10.00 MHz	-40.65	-19.81	20.84	1	-52.88	-32.04	20.84	1	-3 dB

Spectrum Analyzer 1
ACP

KEYSIGHT Input RF: Coupling: 10 dB
R 1 → Appn: Auto

Align: 2.50 D Con C-Corr Freq Ref: 1st (S)

Attain: 30 dB PNO Best Width

Trig: Free Run Gate: Off IF Gain: Low

Center Freq: 3.55500000 GHz
Amp/Hz: 150150
Ratio Sds: None
Noise Correction: Off

1 Graph
Scale/Div: 10.0 dB

Ref Lvl Offset: 18.57 dB
Ref Value: 39.37 dBm

2 Metrics

Center: 3.555000 GHz
dB BW: 100 kHz

FVideo BW: 300.0 kHz

Total Car Power: -20.68 dBm/10.00 MHz
Total PSD: ---

Lower										Upper			
Offs Freq	Integ BW	dBC	dBm	Reference dBM	Car #	ACP dBM	Reference dBM	Car #	Filter				
A 10.00 MHz	10.00 MHz	-52.87	-32.19	20.68	1	-42.78	-22.09	20.68	1 -3 dB				

Span: 30 MHz
Sweep: 20.0 ms (1001 pts)

Measure Trace Type: Trace Average (Active)

Spectrum Analyzer 1
ACUP

KEYSIGHT Input: RF
R T → → Aligning DC
ON **PASS**

Input Z: 50 Ω
Port C: Car
Freq Ref: Int (s)

Att: 30 dB
P/N: Best Wide

Trig: Free Run
Gate: Off
IF Gain: Low

Center Freq: 3.624490000 GHz
Amp: 14.0 dBm
Ratio: Std None
Noise Correction: Off

Ref Lvl Offset: 19.54 dBm
Ref Value: 39.94 dBm

1 Graph
Scale/Div: 10.0 dB

Span: 20 MHz
Sweep: 20.0 ms (1001 pt)

Center: 3.624490 GHz
#Res BW: 100 kHz
#Video BW: 300.0 kHz

2 Metrics

Total Car Pwr: 21.194 dBm/10.0 MHz
Total PSD: —

Measure Trace
Trace Type: Trace Average (Active)

	Offs Freq	Integ BW	dBc	ACF	Lower	Reference	Car #	dBc	Upper	Reference	Car #	Filter
				dBm	dBm	dBm		dBm	dBm	dBm		
A	10.00 MHz	10.00 MHz	-45.39	-24.19	21.19	1	-45.50	-24.30	21.19	1	-3 dB	

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7:15:50 AM

[illegible][illegible]

Spectrum Analyzer 1
 ACPr

KEYSIGHT Input RF
 R T $\leftrightarrow$ **Channel DC**
 Align Auto

Input Z: 50 Ω
 Cont C: Off
 Freq Ref: 1st (S)

Attm: 30 dB
 PNO: Best Wide

Trig: Free Run
 Gate: Off
 F: Gain Low

Center Freq: 3.62450000 GHz
 Assigned: 101150
 Ratio: Std None
 Noise Correction: Off

IN PASS

1 Graph
 Scale/Div: 10.0 dB
 Ref Lvl Offset: 18.57 dBm
 Ref Value: 39.87 dBm

Center 3.62450 GHz
 #Res BW 100 kHz
 Span 30 MHz
 Sweep 20.0 ms (1001 pts)

2 Metrics

Total Cn Pwr	20.950 dBm/10.00 MHz	Measure Trace	Trace Type	Trace Average (AC)
Total PSD	...			

ACPr				Lower				Reference				Upper			
Offs Freq	Integ BW	dBc	dBm	dBc	dBm	Car #	1	dBc	dBm	dBc	dBm	Car #	1	dBc	dBm
A	10.00 MHz	10.00 MHz	-45.53	-24.94	20.59	1	-44.03	-23.44	20.59	1	-3	dB			

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 7:18:27 AM

Spectrum Analyzer 1
ACP

KEYSIGHT Input RF
R T $\rightarrow$ $\rightarrow$ Creating DC
Align Auto

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

Attain: 30 dB
PNO: Best Wide

Trig Free Run
Gate: Off
IF Gain: Low

Center Freq: 3.62490000 GHz
Amp/Mod: 150/150
Stats Std None
Noise Correction: Off

Scale/Div 10.0 dB

Ref Lvl Offset 18.53 dB
Ref Value 39.83 dBm

1 Graph

Center: 3.62490 GHz
#Res BW 100 MHz
Span: 30 MHz
Sweep: 20.0 ms (1001 pts)

2 Metrics

Total Car Pwr: 22.212 dBm/10.00 MHz
Total PSD

Measure Trace
Trace Type
Trace Average (Active)

Lower				Upper							
Offs Freq	Integ BW	dBc	ACP	Reference	ACP	Reference	Filter				
		dBm	dBm	Car #	dBm	dBm	Car #				
A	10.00 MHz	10.00 MHz	-42.70	-20.49	22.21	-52.12	-29.91	22.21	1	-3	dB

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Spectrum Analyzer 1
ACP

KEYSIGHT Input RF: **Coupling DC**
R 1 **PASS**
Appn: Auto

Align: 30 dB PNO Best Wide
Trig: Free Run Gate: Off IF Gain: Low
Center Freq: 3.624490000 GHz
Amp/Att: 150/150
Ratio: Std None Noise Correction: Off

1 Graph
Scale/Div 10.0 dB
Ref Lvl Offset: 18.51 dB
Ref Lvl Value: 39.91 dBm

Center 3.62449 GHz
Res BW 100 kHz
#Video BW 300.00 MHz
Span: 30 MHz
Sweep: 20.0 ms (1001 pts)

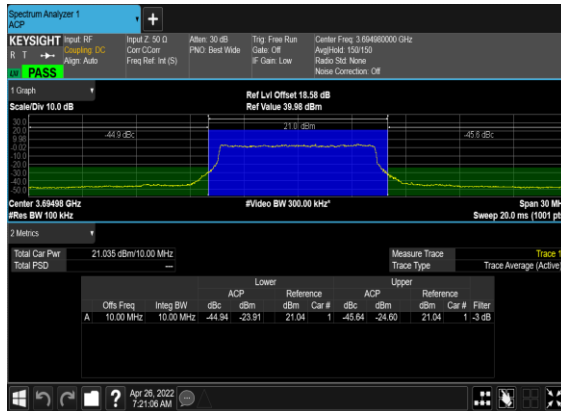
2 Metrics

Total Car Pair	19.628 dBm/10.0 MHz	Measure Trace	Trace Type	Trace Average (AC)
Total PSD				

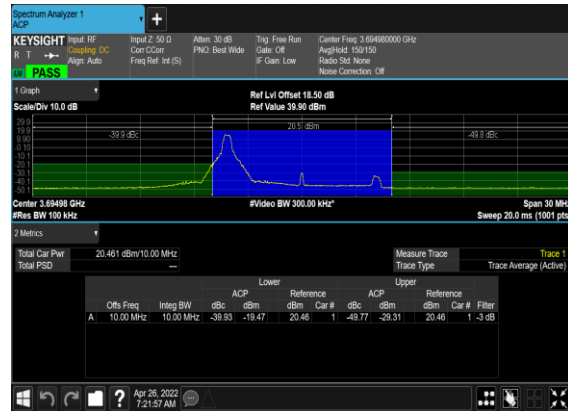
Lower				Upper			
Offs Freq	Integ BW	dBc	dBm	Reference	dBc	dBm	Filter
A 10.00 MHz	10.00 MHz	-48.77	-30.15	19.63	1	-41.76	-22.13
				19.63	1	-3	dB

Apr 28, 2022 7:20:36 AM

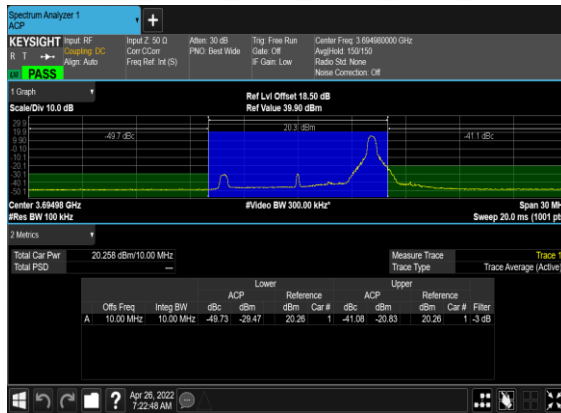
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



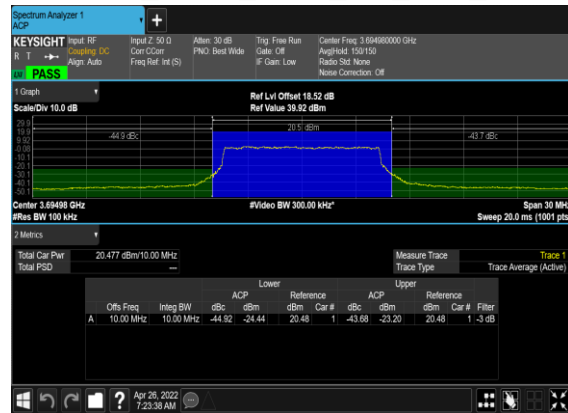
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



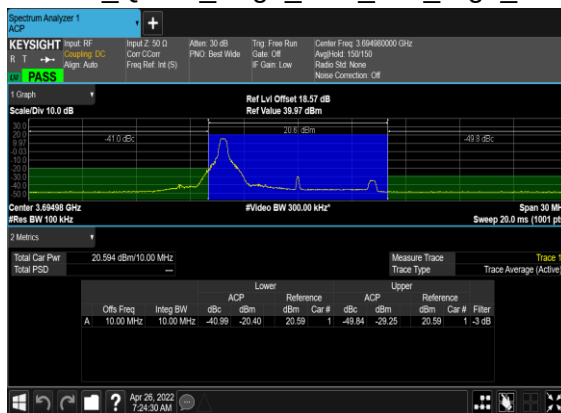
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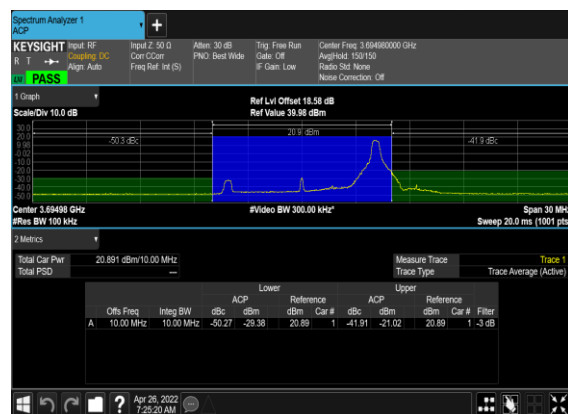
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



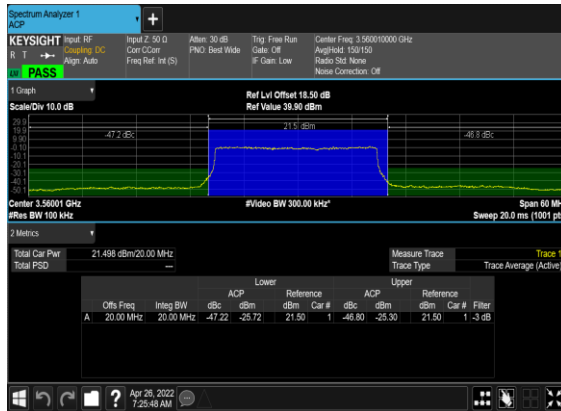
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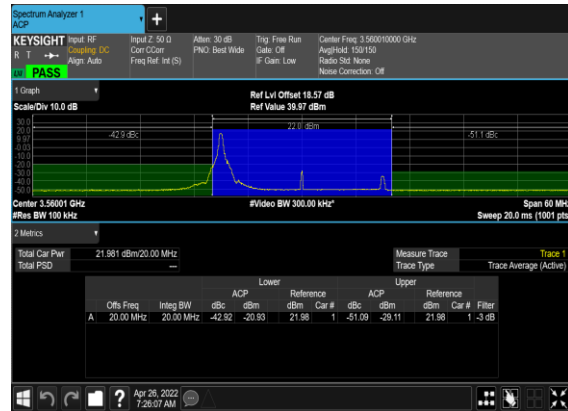
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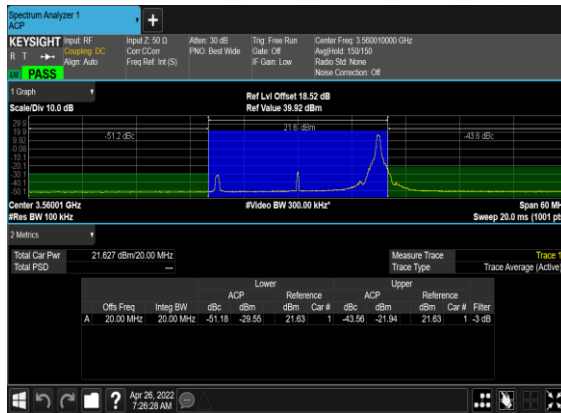
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



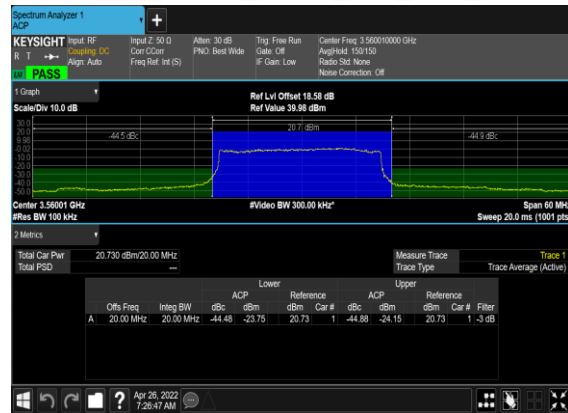
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



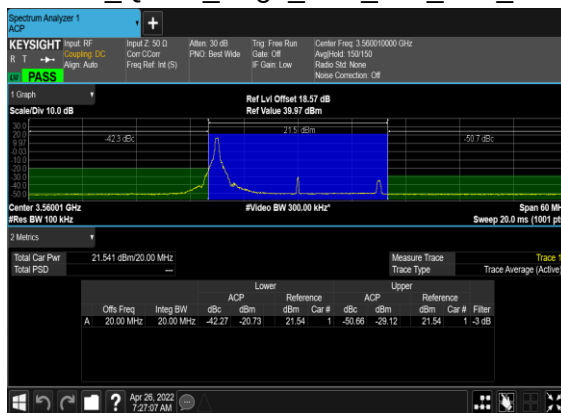
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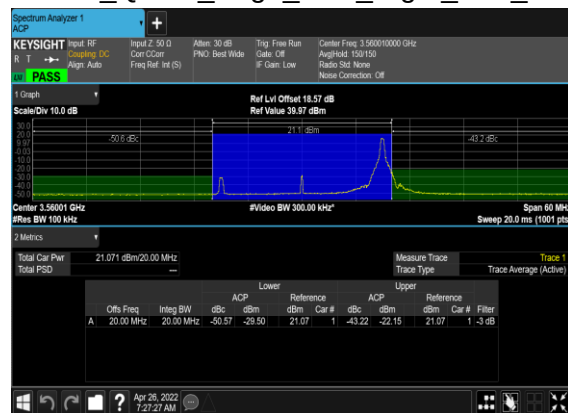
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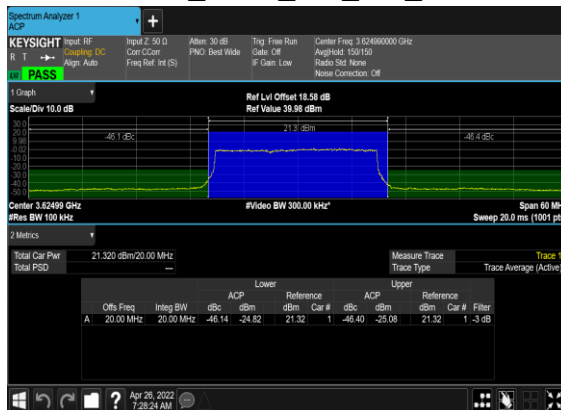
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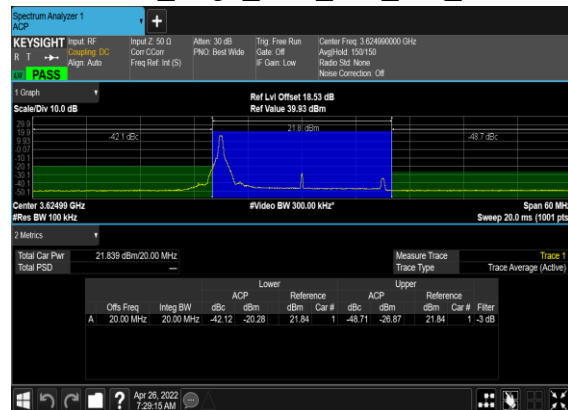
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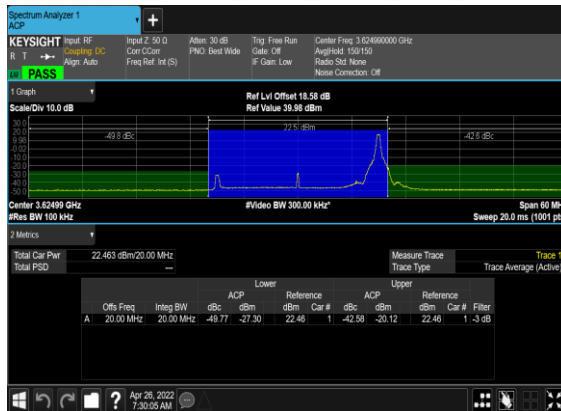
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



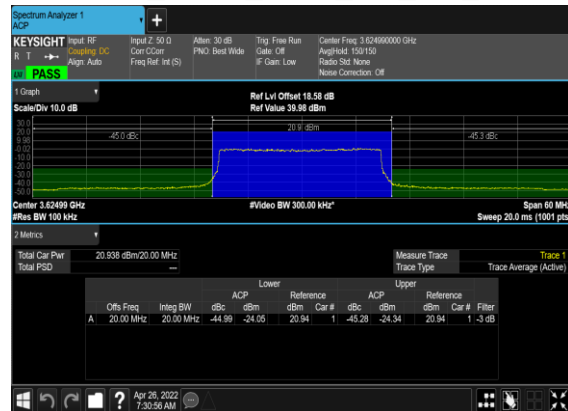
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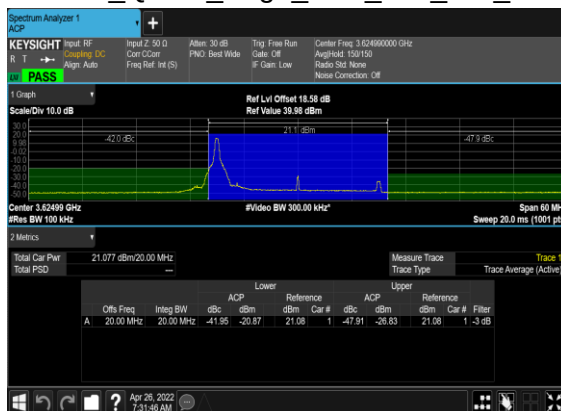
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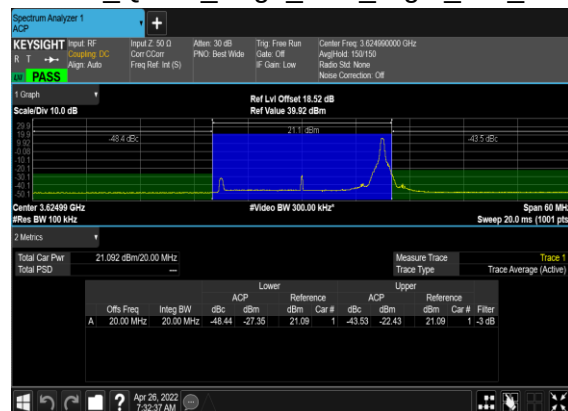
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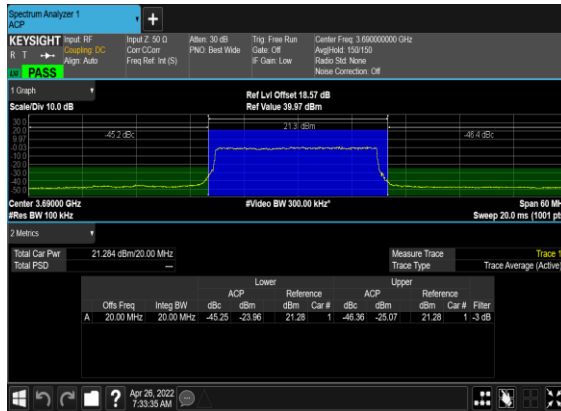
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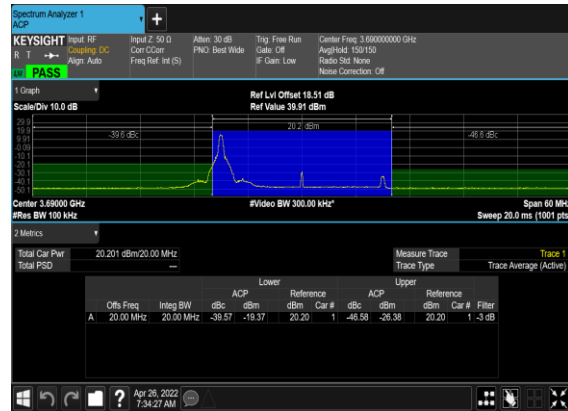
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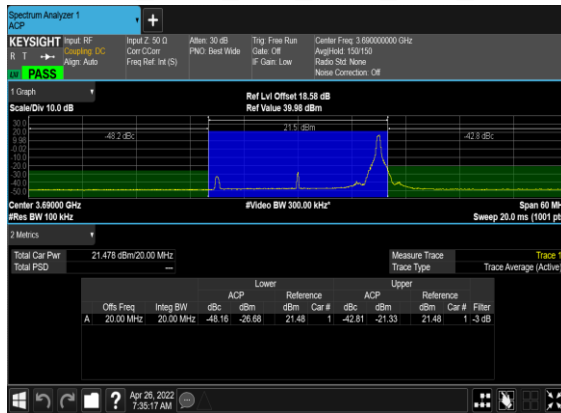
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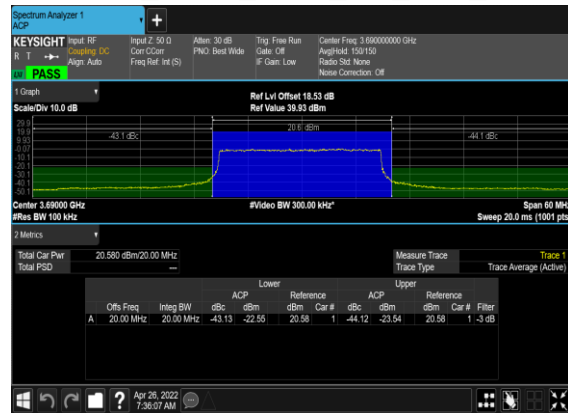
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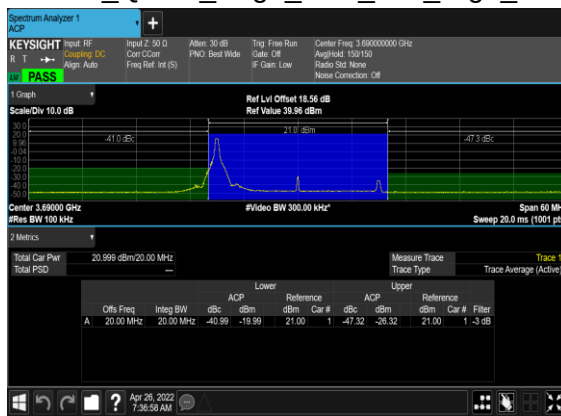
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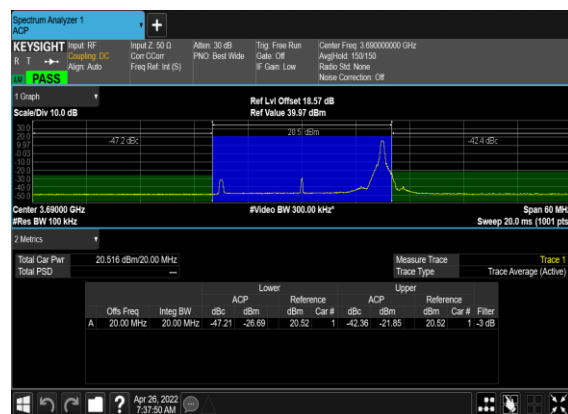
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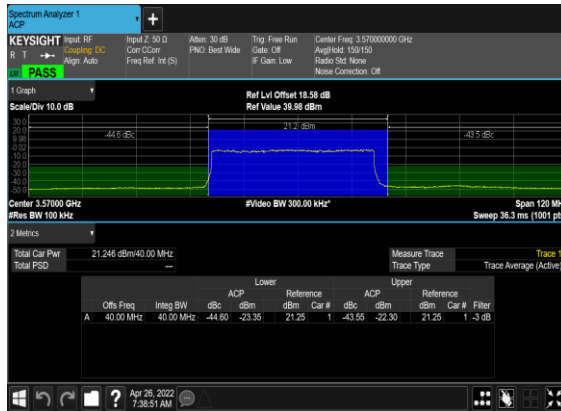
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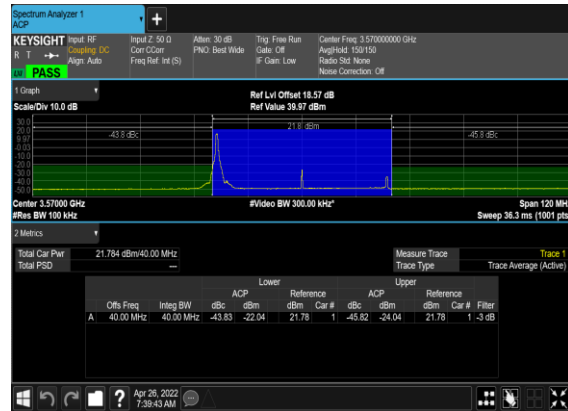
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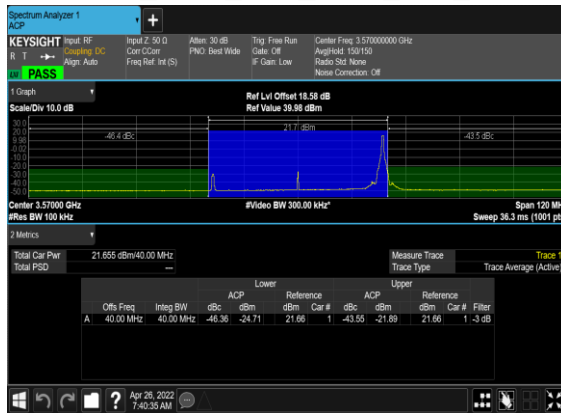
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



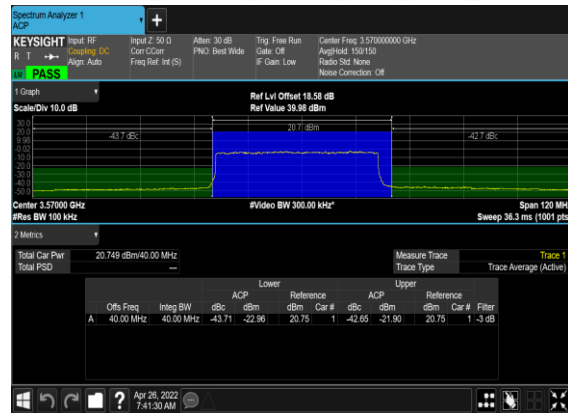
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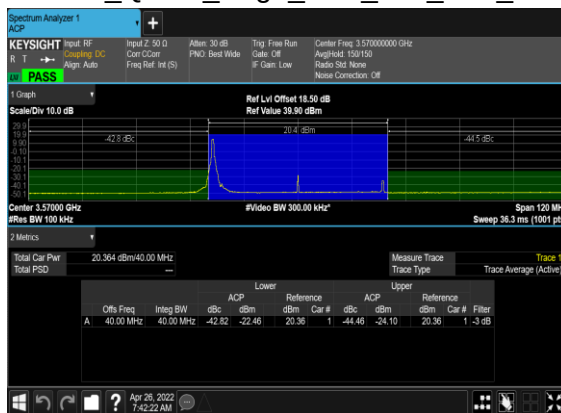
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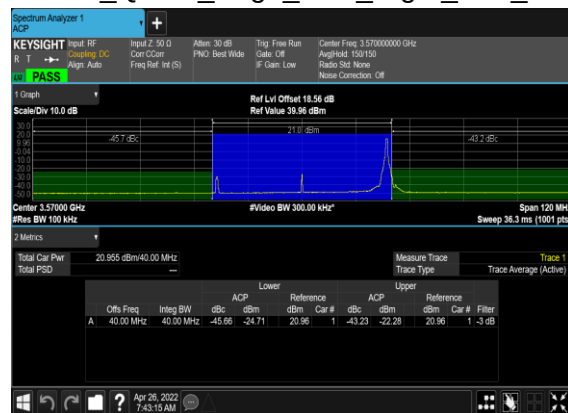
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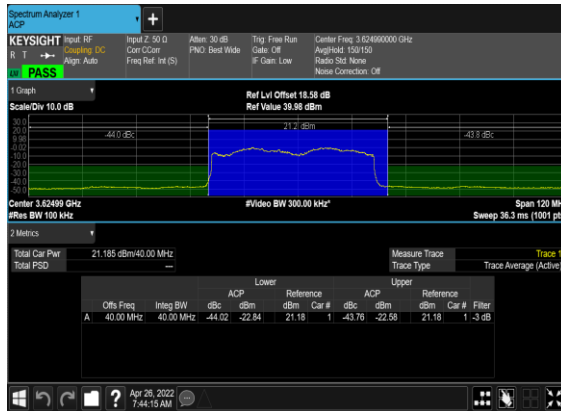
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



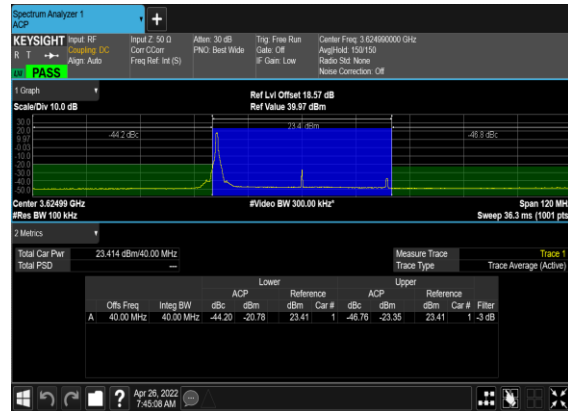
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



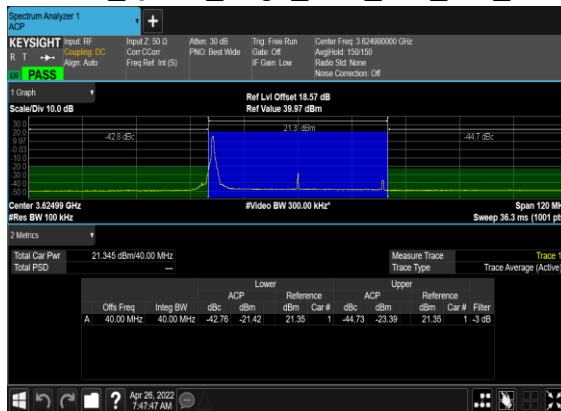
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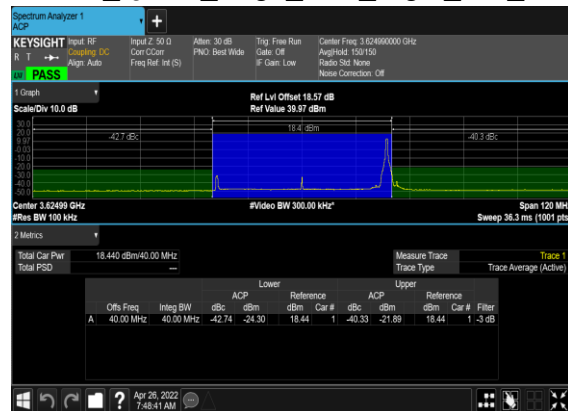
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



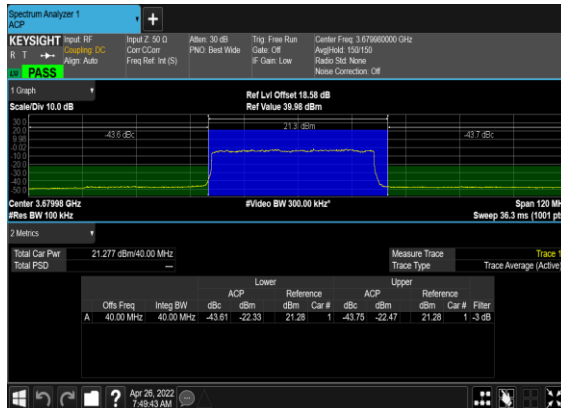
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



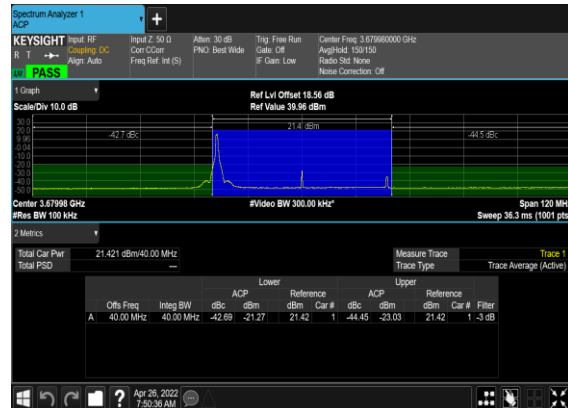
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



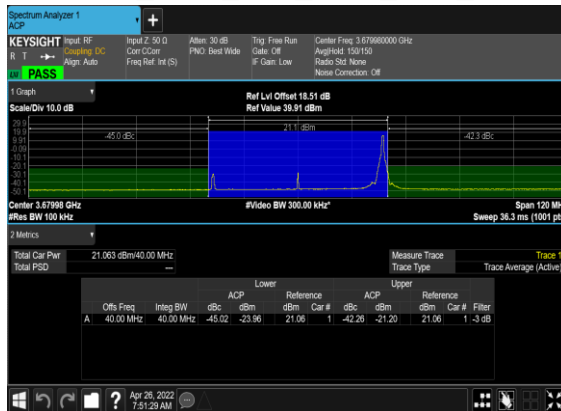
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



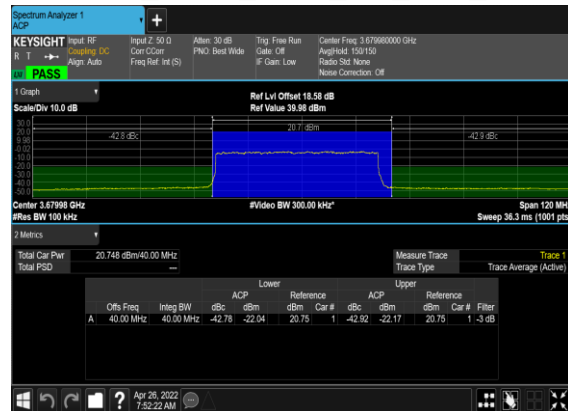
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



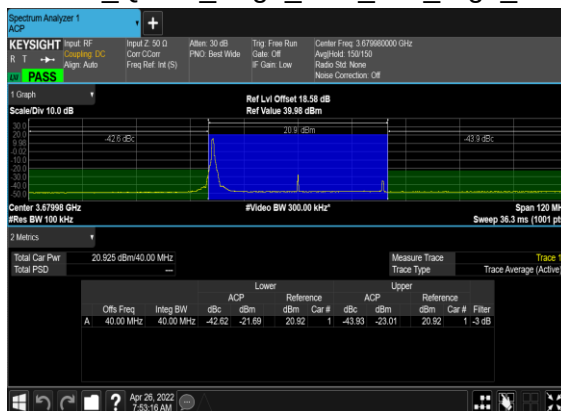
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_High_CH



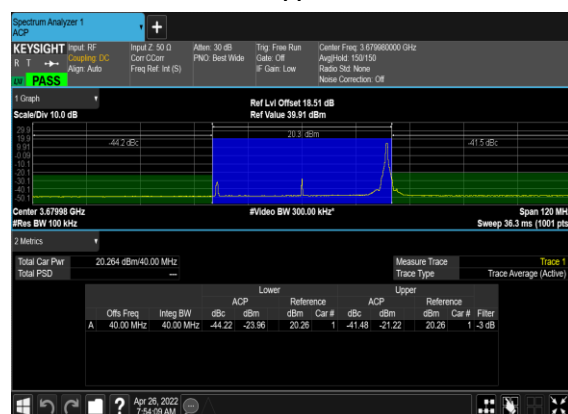
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	---
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@23	see graph	---
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	see graph	---
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	24@0	see graph	---
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	see graph	---
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	---

48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@23	see graph	---
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	see graph	---
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	24@0	see graph	---
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	see graph	---
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	---
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@23	see graph	---
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@23	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	see graph	---

48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	24@0	see graph	---
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	24@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	see graph	---
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	---
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@50	see graph	---
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	see graph	---
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	50@0	see graph	---
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	see graph	---

48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	---
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@50	see graph	---
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	see graph	---
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	---
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	---
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	---

48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@50	see graph	---
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@50	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	see graph	---
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	50@0	see graph	---
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	see graph	---
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	---
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@105	see graph	---
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	see graph	---

48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	100@0	see graph	---
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	see graph	---
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	---
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	---
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	---
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	---
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	---

48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	---
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	---
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@105	see graph	---
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@105	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	see graph	---
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	100@0	see graph	---
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	100@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	see graph	---
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	see graph	PASS