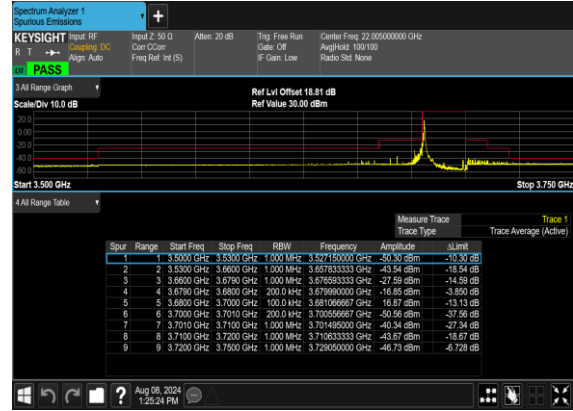




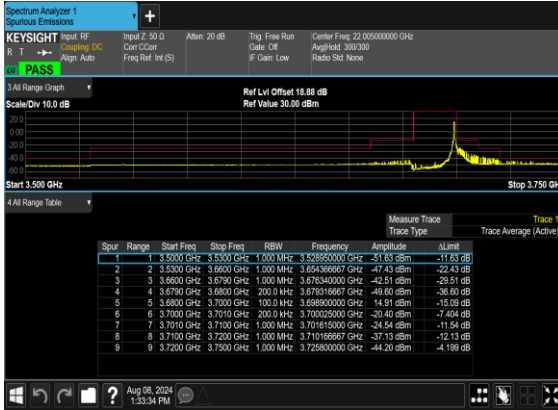
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



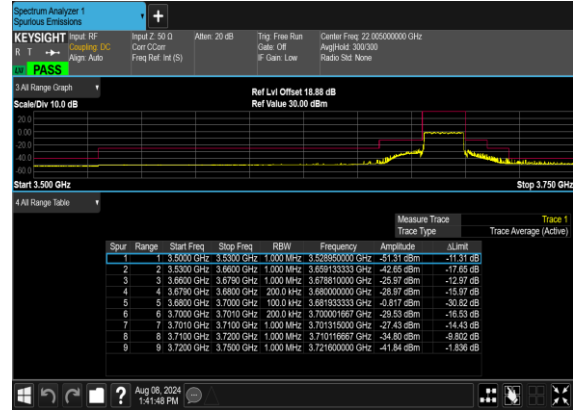
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH

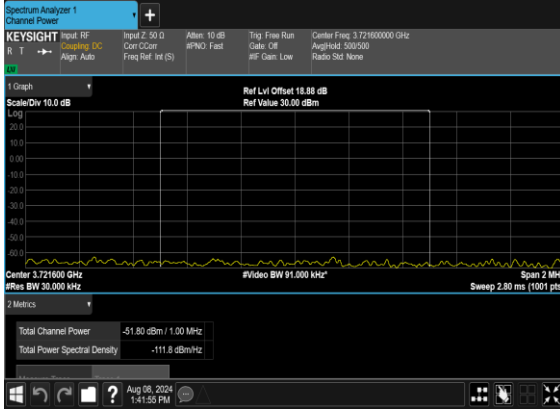


N48(20M)_CP-OFDM_QPSK_Outer_Full_High_CH

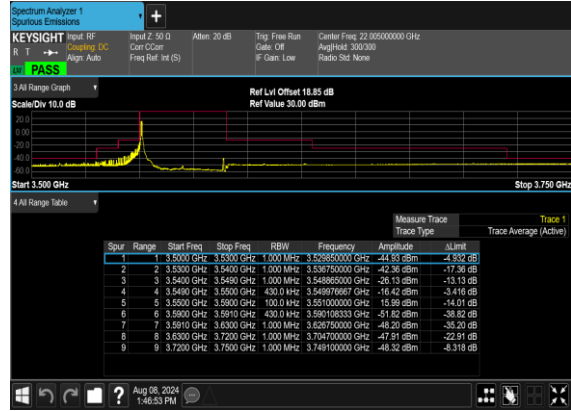




N48(20M)_CP-OFDM_QPSK_Outer_Full_High_CH_CHP_PA SS

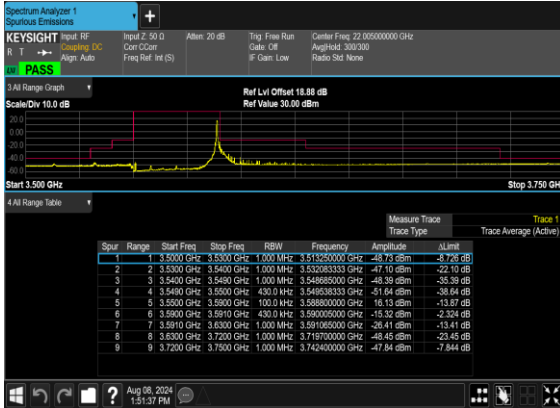


N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH

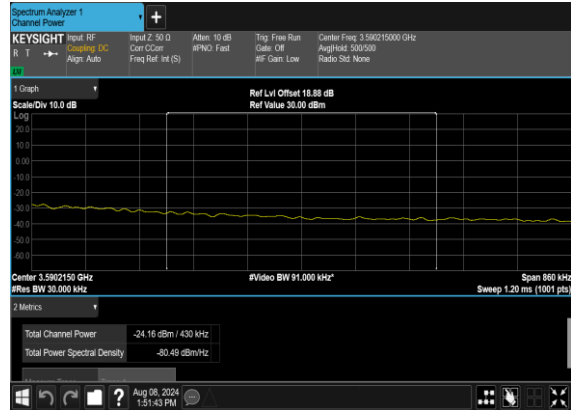


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	3.5000 GHz	3.5300 GHz	1.000 MHz	3.52550000 GHz	-44.93 dBm	-4.93z dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.535750000 GHz	-42.36 dBm	-17.36z dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.546650000 GHz	-26.13 dBm	-13.13z dB
4	4	3.5490 GHz	3.5500 GHz	430.0 kHz	3.549976667 GHz	-16.42 dBm	-3.41z dB
5	5	3.5500 GHz	3.5800 GHz	100.0 kHz	3.551000000 GHz	15.89 dBm	-14.01z dB
6	6	3.5900 GHz	3.5910 GHz	430.0 kHz	3.591063333 GHz	-51.62 dBm	-38.62z dB
7	7	3.5910 GHz	3.6300 GHz	1.000 MHz	3.625750000 GHz	-48.20 dBm	-35.20z dB
8	8	3.6300 GHz	3.7200 GHz	1.000 MHz	3.704700000 GHz	-47.91 dBm	-22.91z dB
9	9	3.7200 GHz	3.7600 GHz	1.000 MHz	3.749100000 GHz	-48.32 dBm	-43.13z dB

N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH

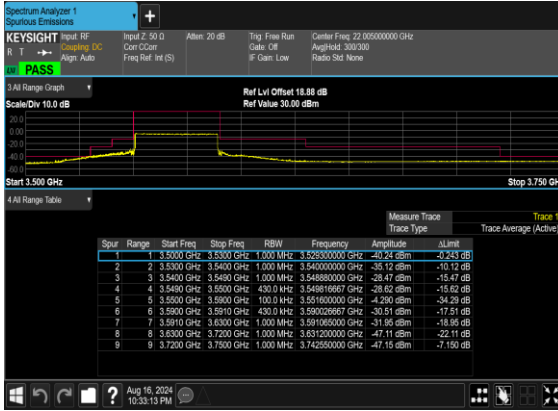


N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Low_CH_CHP_P ASS

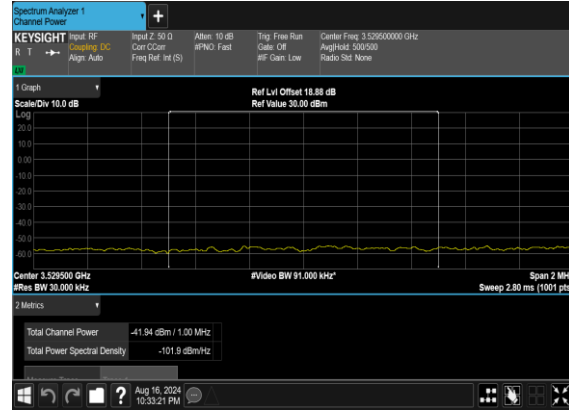




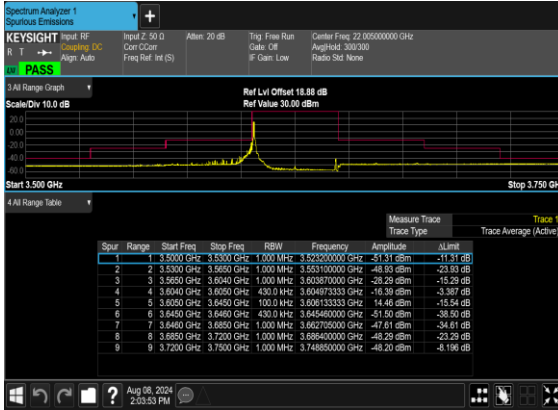
N48(40M)_CP-OFDM_QPSK_Outer_Full_Low_CH



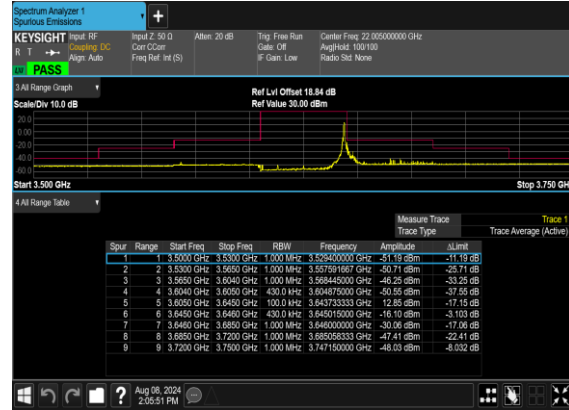
N48(40M)_CP-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS



N48(40M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH

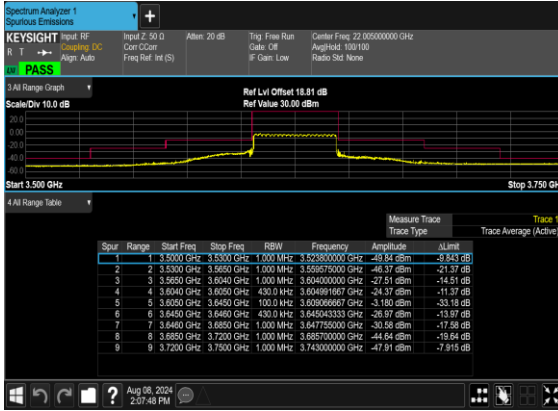


N48(40M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH





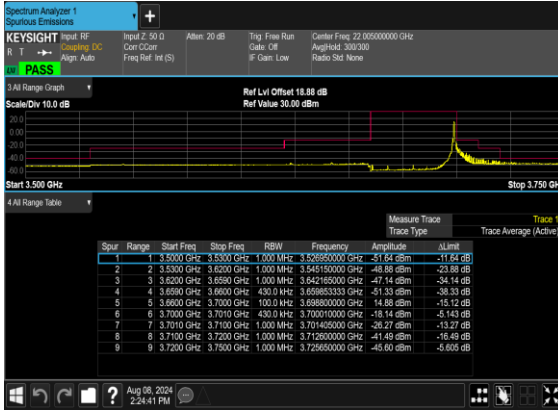
N48(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



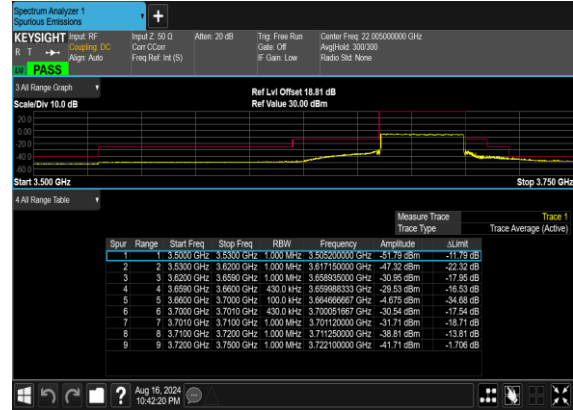
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

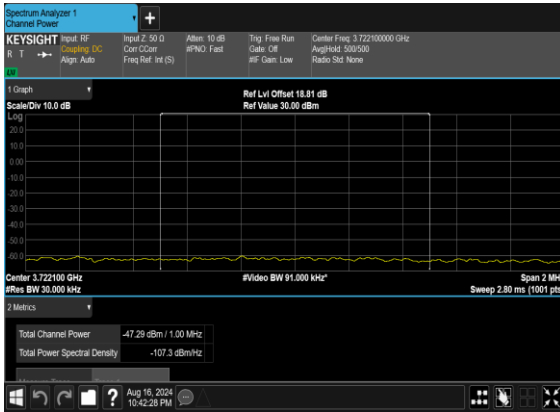


N48(40M)_CP-
OFDM_QPSK_Outer_Full_High_CH





N48(40M)_CP-
OFDM_QPSK_Outer_Full_High_CH_CHP_PA
SS





Software Version: 23.06.1602

FR1 N48 UL MIMO(Ant2+7)-Ant7

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0049	PASS	NV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0068	PASS	LV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0049	PASS	HV
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0039	PASS	-30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0048	PASS	-20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0049	PASS	-10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0052	PASS	0°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0046	PASS	10°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0049	PASS	20°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0056	PASS	30°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0043	PASS	40°C
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	0.0058	PASS	50°C



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	6.87	13	PASS

N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



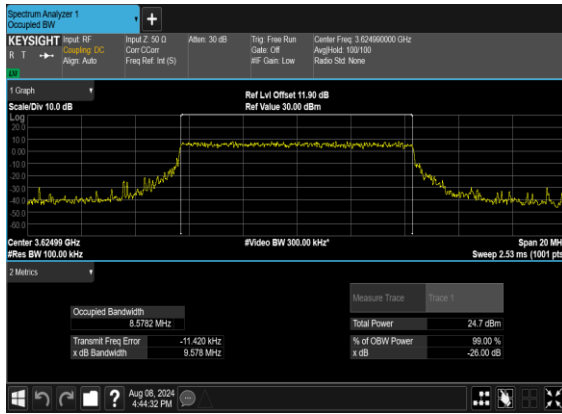


Occupied Bandwidth

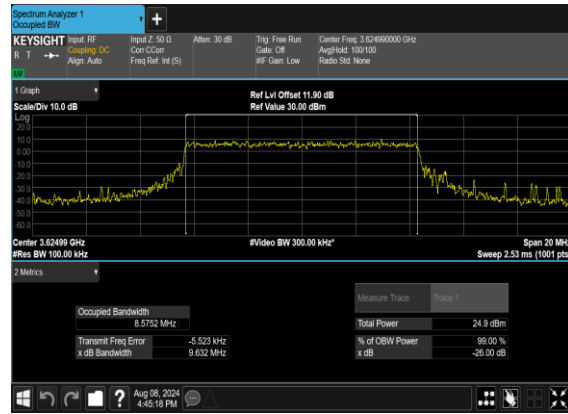
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.5782	9.578
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5752	9.632
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5713	9.462
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.5447	9.589
48	30	15	641666	3624.99	CP-OFDM QPSK	38@0	13.592	15.04
48	30	15	641666	3624.99	CP-OFDM 16 QAM	38@0	13.553	14.75
48	30	15	641666	3624.99	CP-OFDM 64 QAM	38@0	13.485	14.7
48	30	15	641666	3624.99	CP-OFDM 256 QAM	38@0	13.552	14.85
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.241	19.39
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.224	19.51
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.239	19.68
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.21	19.66
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.825	28.89
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.854	29.12
48	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.869	28.87
48	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.842	29.1
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.875	39.45
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.795	39.46
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.81	39.38
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.853	40.08



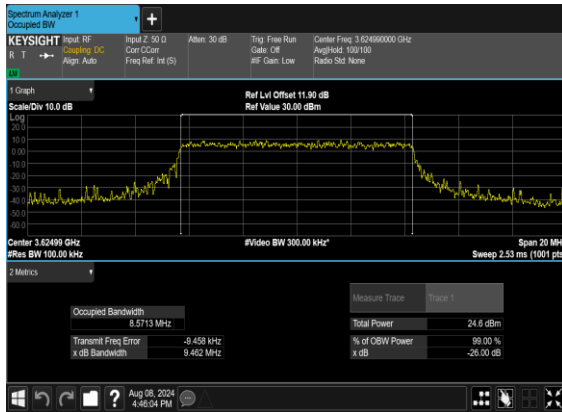
N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



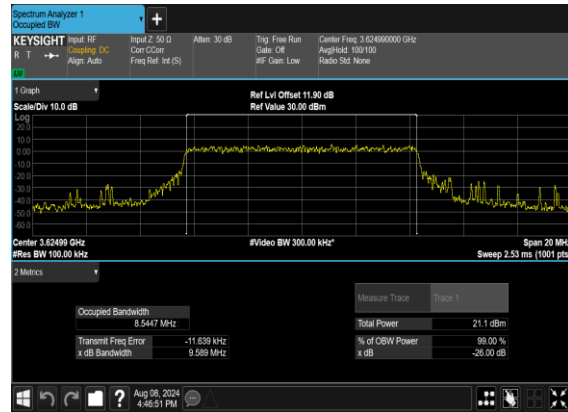
N48(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N48(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH





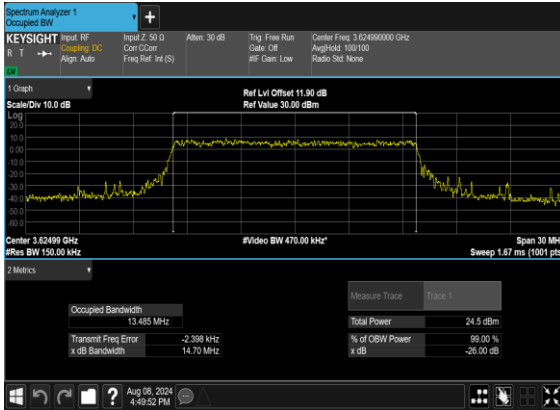
N48(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



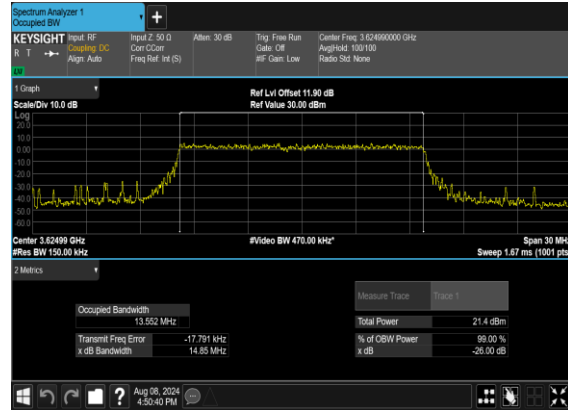
N48(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(15M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

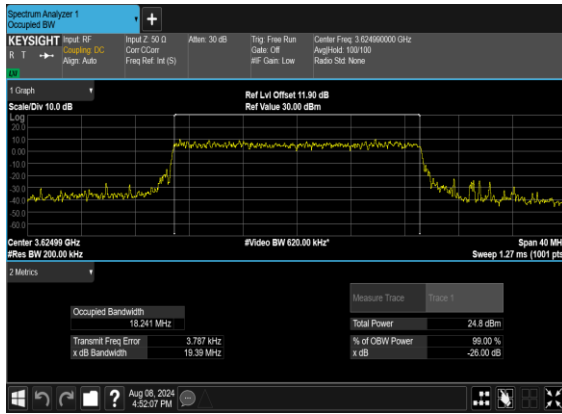


N48(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

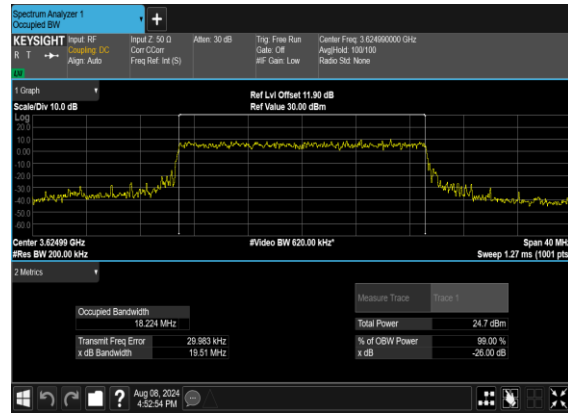




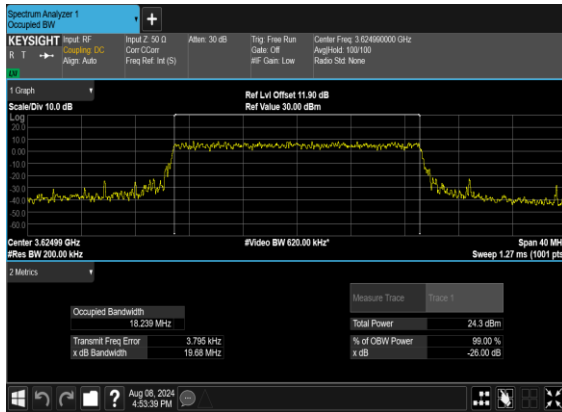
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



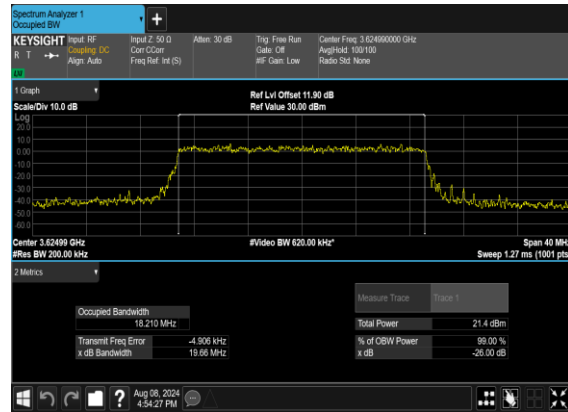
N48(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

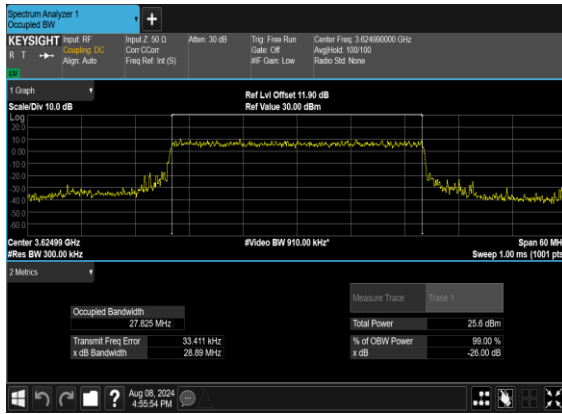


N48(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

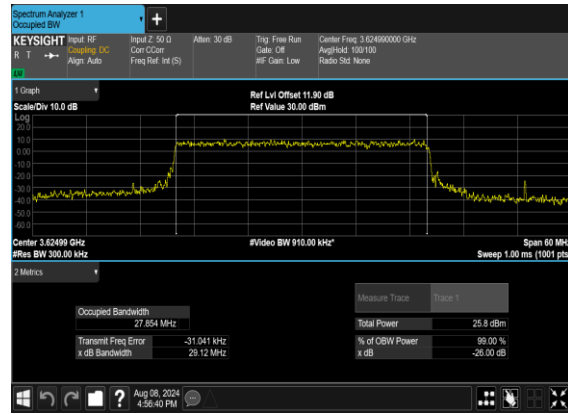




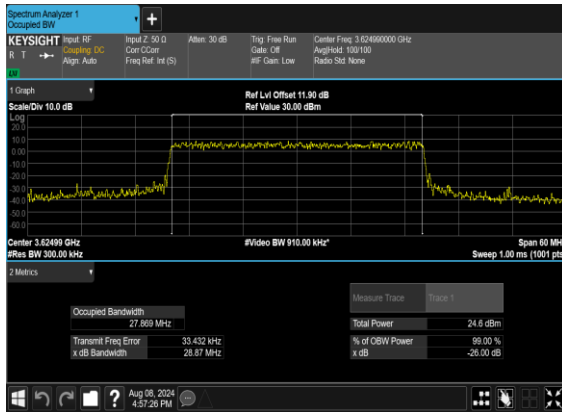
N48(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



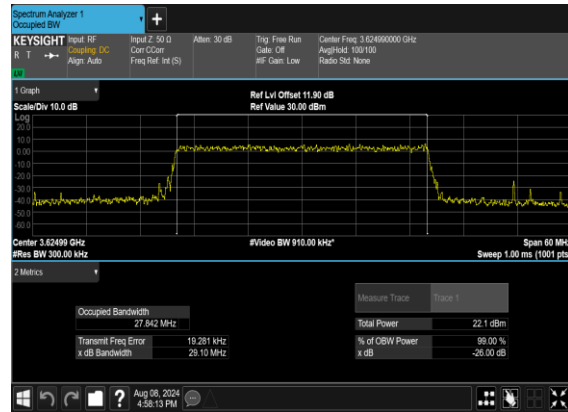
N48(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(30M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

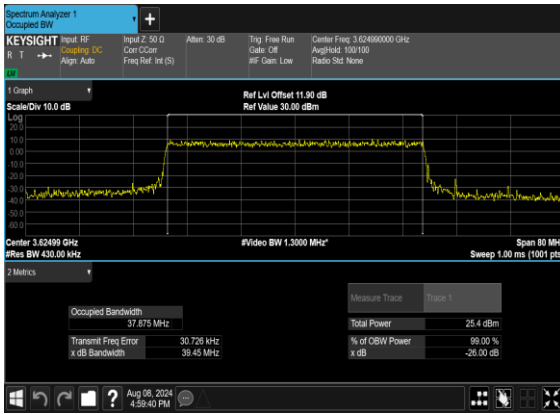


N48(30M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

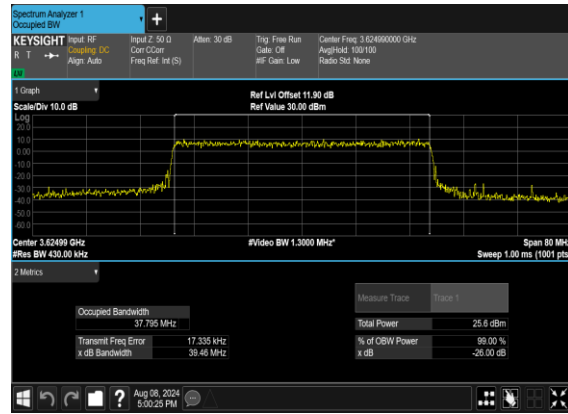




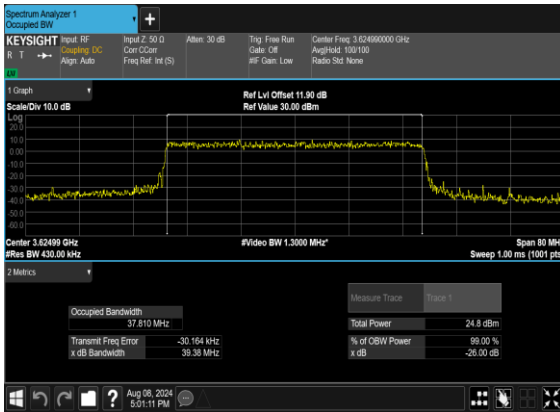
N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



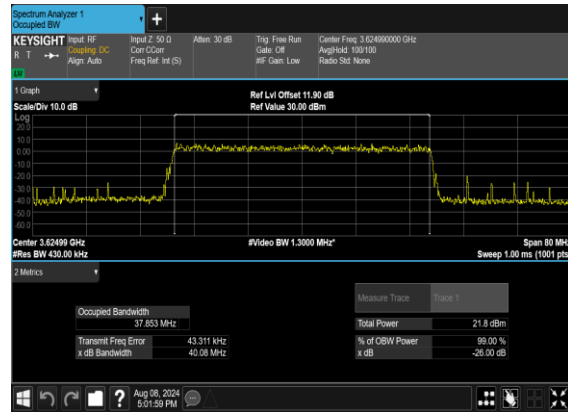
N48(40M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH





Adjacent Channel Leakage Ratio

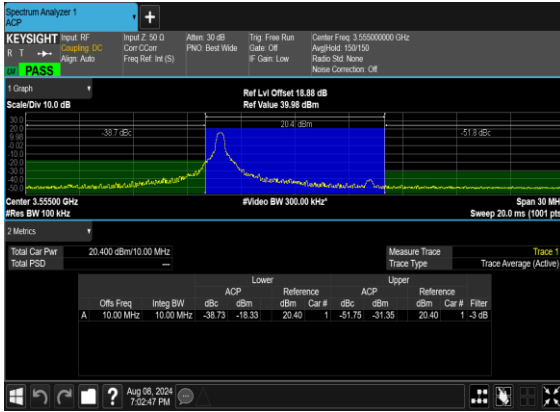
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	-8.73	-21.75	see graph	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	1@23	-22.08	-9.97	see graph	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	24@0	-12.79	-13.57	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	-10.2	-19.06	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@23	-21.55	-12.2	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	-12.57	-12.13	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	-9.06	-19.52	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@23	-18.83	-9.05	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	24@0	-11.49	-11.23	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	-9.43	-18.17	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@50	-19.33	-9.51	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	51@0	-14.08	-12.87	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	-9.63	-17.11	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@50	-17.17	-9.36	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	-11.77	-13.01	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	-8.34	-15.82	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@50	-17.05	-10.26	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	51@0	-10.7	-12.75	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	-10.01	-14.21	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@105	-14.17	-9.97	see graph	PASS



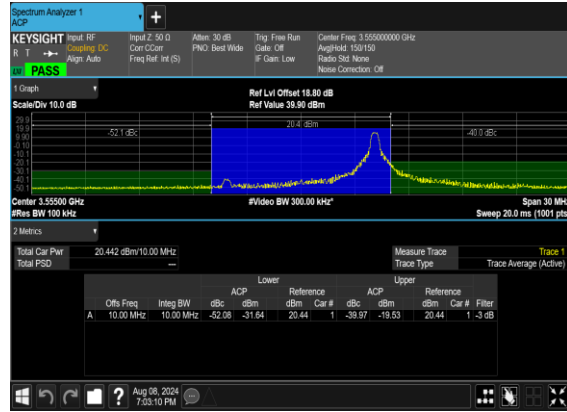
48	30	40	638000	3570.0	CP-OFDM QPSK	106@0	-11.67	-10.57	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	-10.03	-13.5	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@105	-12.19	-7.64	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	-9.92	-11.09	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	-9.58	-13.25	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@105	-14.2	-9.75	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	106@0	-9.39	-11.07	see graph	PASS



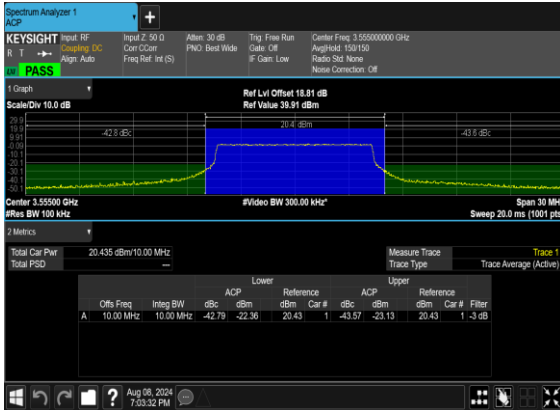
N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Right_Low_CH



N48(10M)_CP-
OFDM_QPSK_Outer_Full_Low_CH

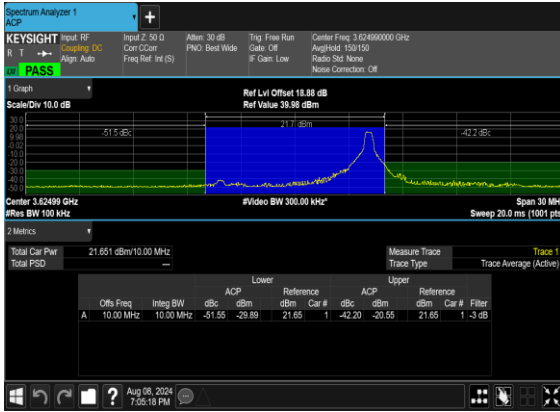


N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

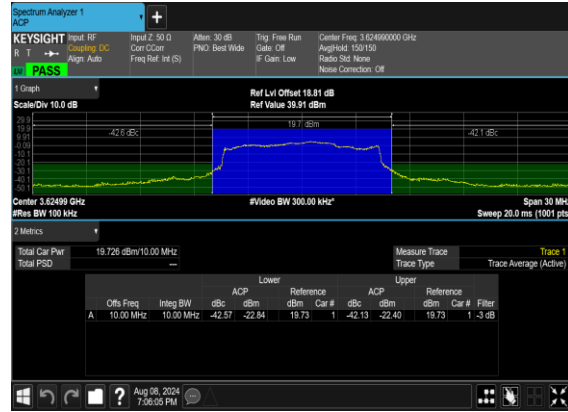




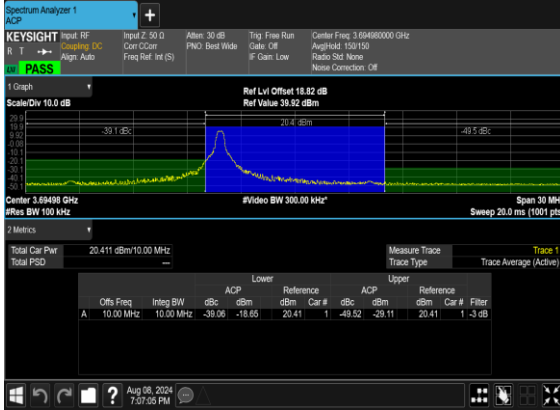
N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



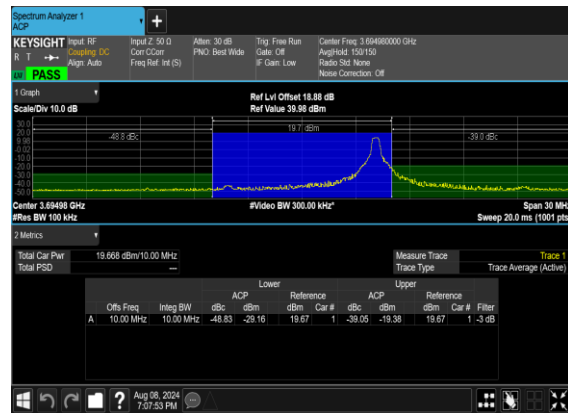
N48(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

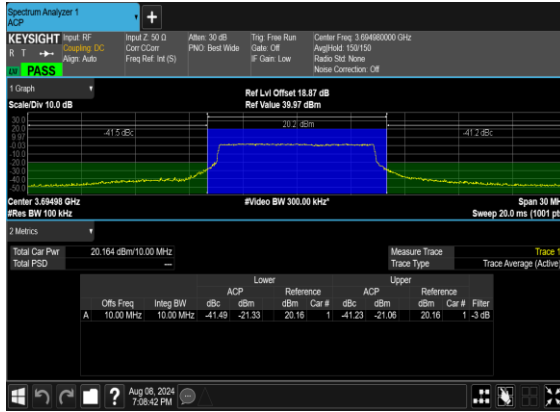


N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_C
H

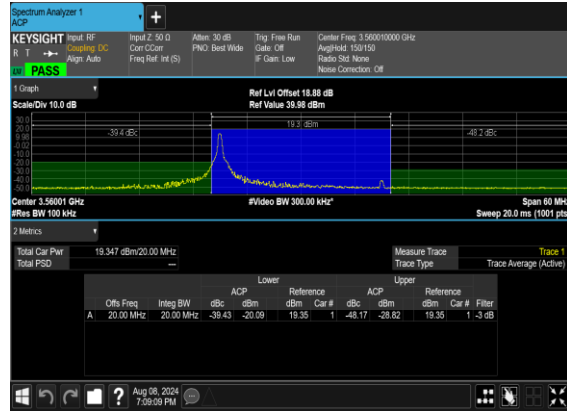




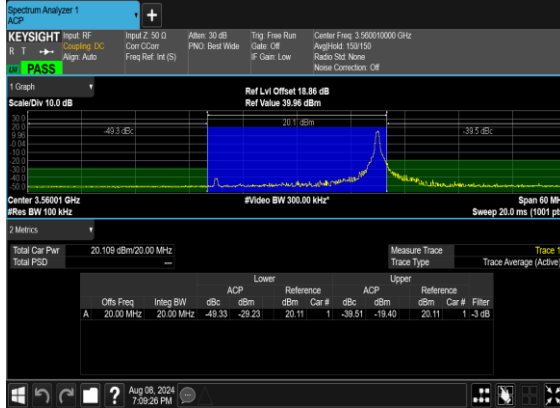
N48(10M)_CP-
OFDM_QPSK_Outer_Full_High_CH



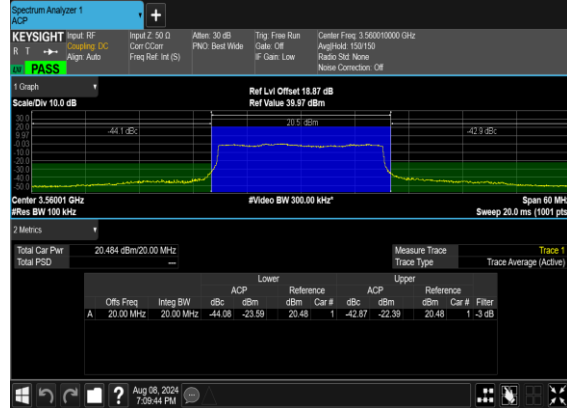
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Right_Low_CH

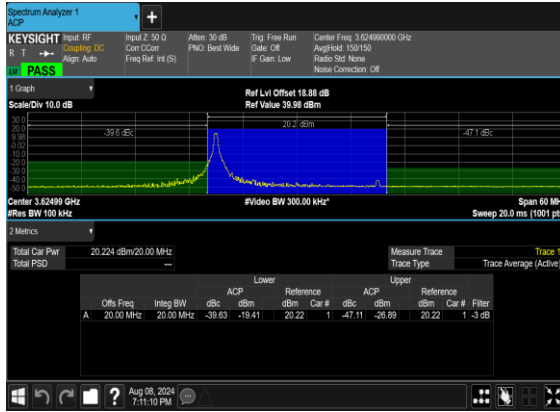


N48(20M)_CP-
OFDM_QPSK_Outer_Full_Low_CH

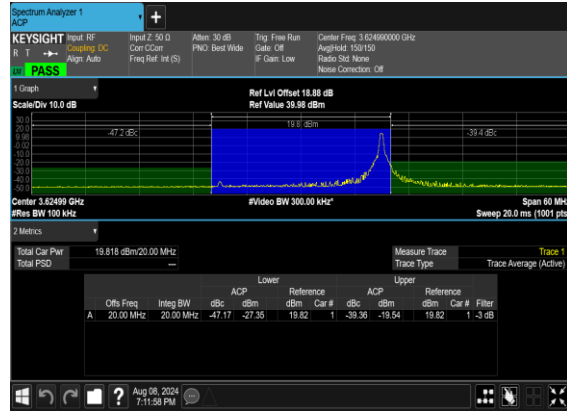




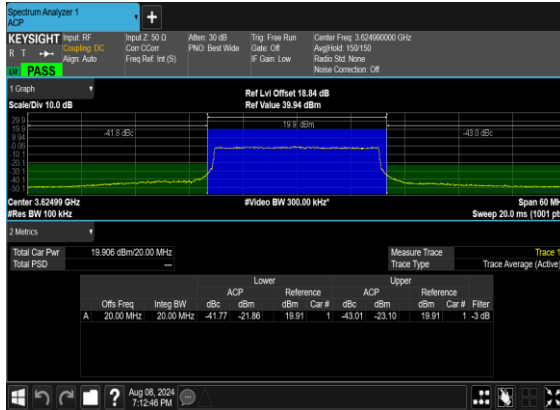
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



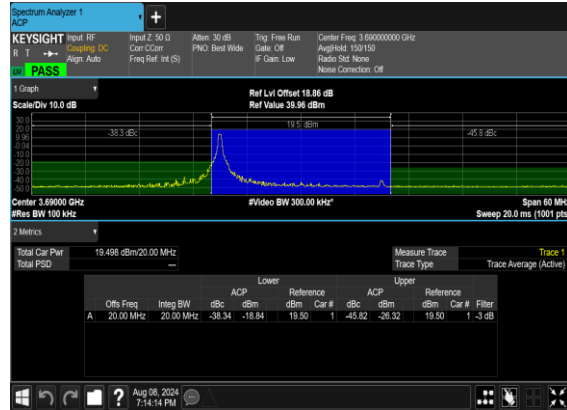
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH

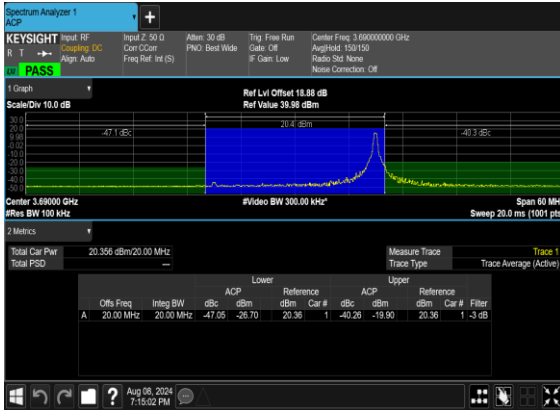


N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

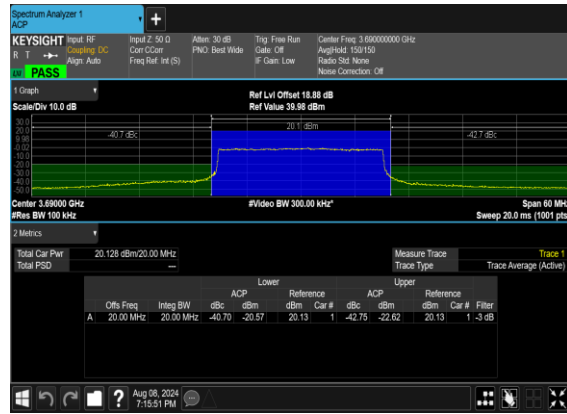




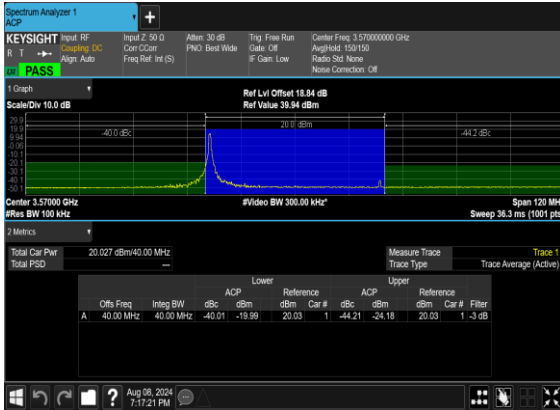
N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_C
H



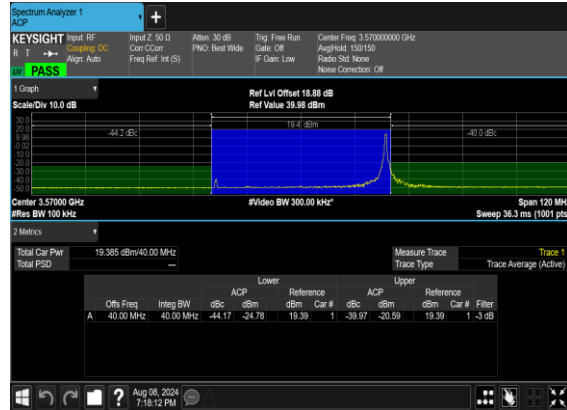
N48(20M)_CP-
OFDM_QPSK_Outer_Full_High_CH



N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

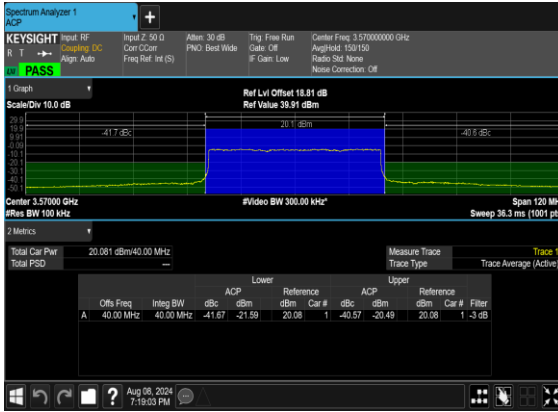


N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_Low_CH





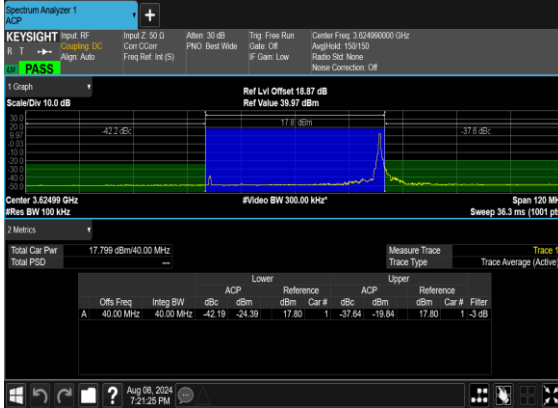
N48(40M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



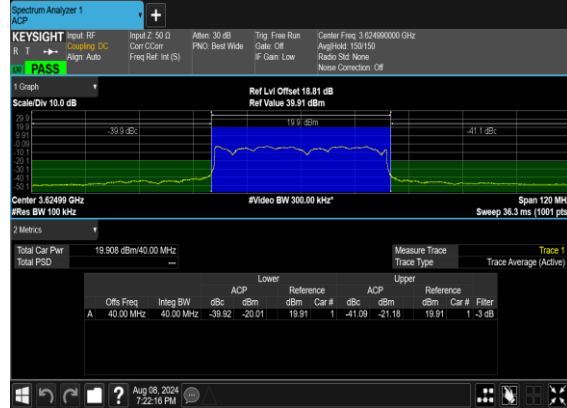
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

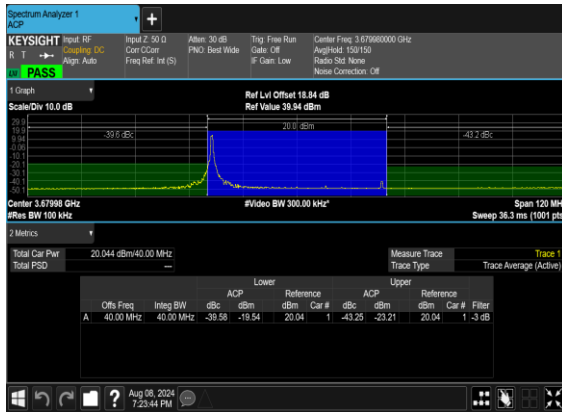


N48(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH





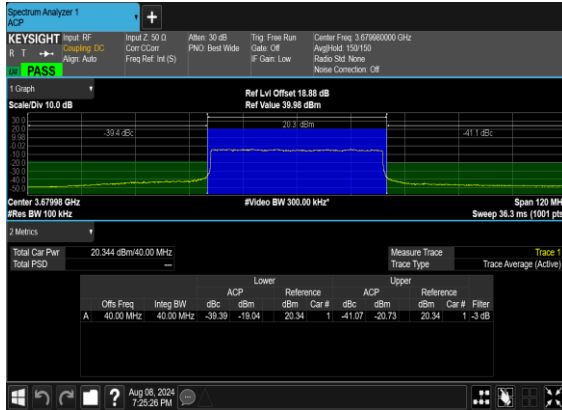
N48(40M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_CP- OFDM_QPSK_Edge_1RB_Right_High_C H



N48(40M)_CP- OFDM_QPSK_Outer_Full_High_CH





Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	---
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	---
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	---
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	---
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	---
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	PASS



48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	---
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	PASS



N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

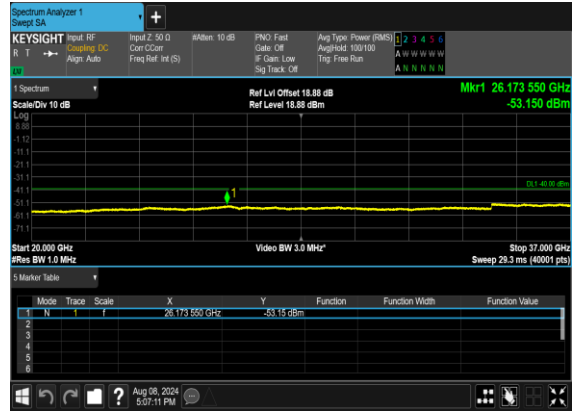




N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH





N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH





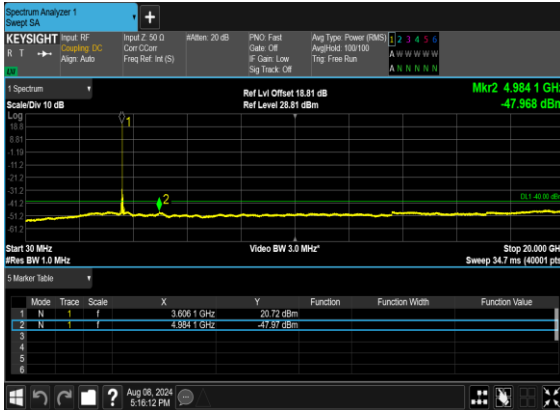
N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

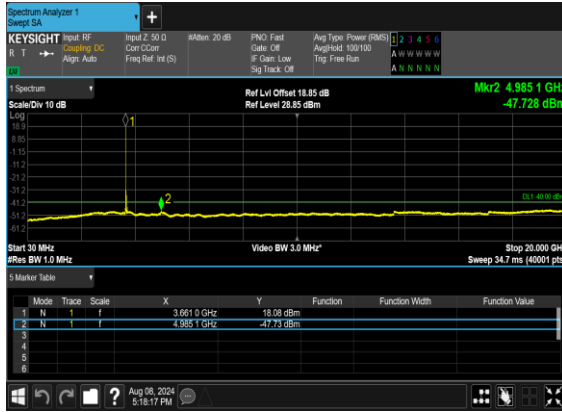


N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH





N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH





Conducted Band Edge

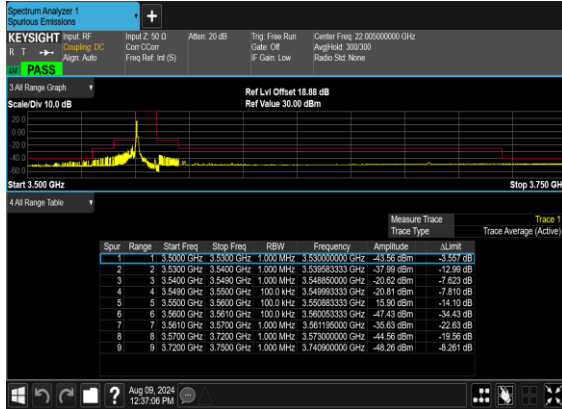
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	1@23	see graph	PASS
48	30	10	637000	3555.0	CP-OFDM QPSK	24@0	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	1@23	see graph	PASS
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	1@23	see graph	PASS
48	30	10	646332	3694.98	CP-OFDM QPSK	24@0	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	1@50	see graph	PASS
48	30	20	637334	3560.01	CP-OFDM QPSK	51@0	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	1@50	see graph	PASS
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	1@50	see graph	PASS
48	30	20	646000	3690.0	CP-OFDM QPSK	51@0	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@0	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	1@105	see graph	PASS
48	30	40	638000	3570.0	CP-OFDM QPSK	106@0	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS



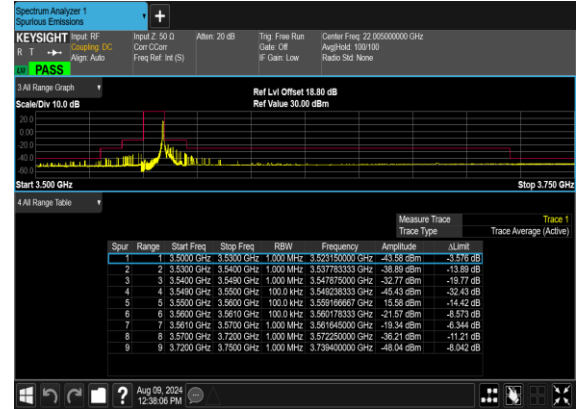
48	30	40	641666	3624.99	CP-OFDM QPSK	1@105	see graph	PASS
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@0	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	1@105	see graph	PASS
48	30	40	645332	3679.98	CP-OFDM QPSK	106@0	see graph	PASS



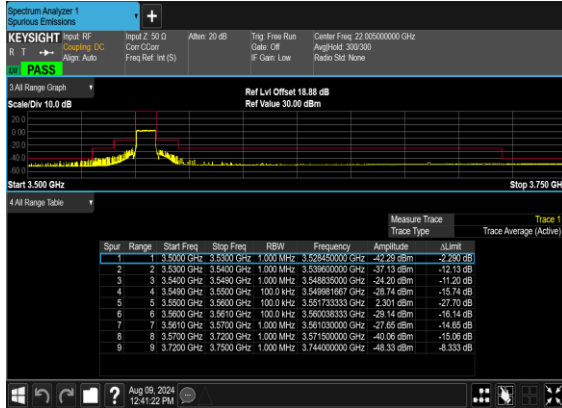
N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



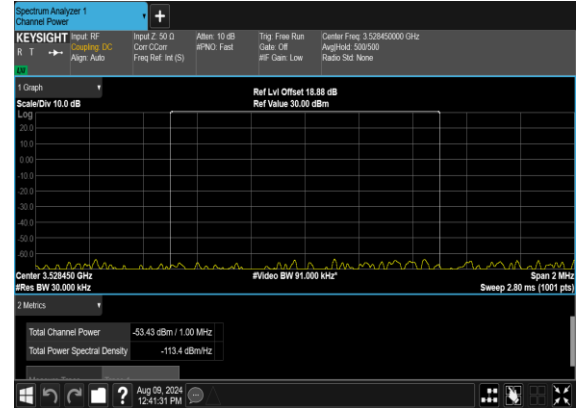
N48(10M)_CP-
OFDM_QPSK_Edge_1RB_Right_Low_CH



N48(10M)_CP-
OFDM_QPSK_Outer_Full_Low_CH

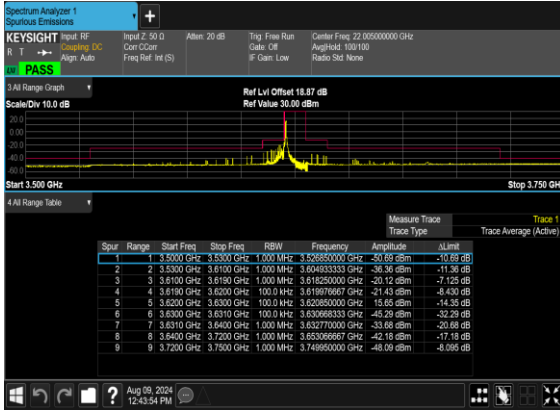


N48(10M)_CP-
OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS

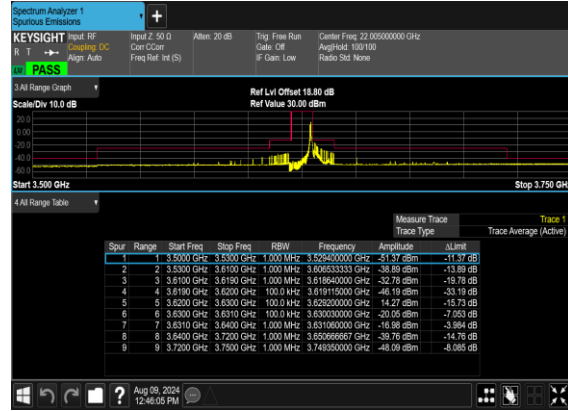




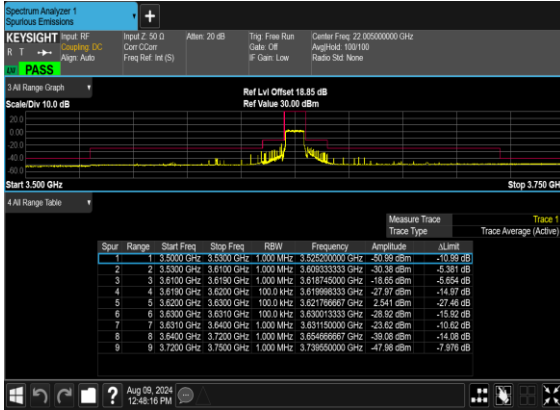
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH

