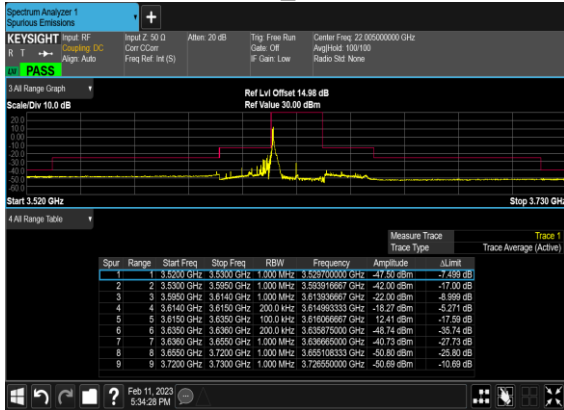
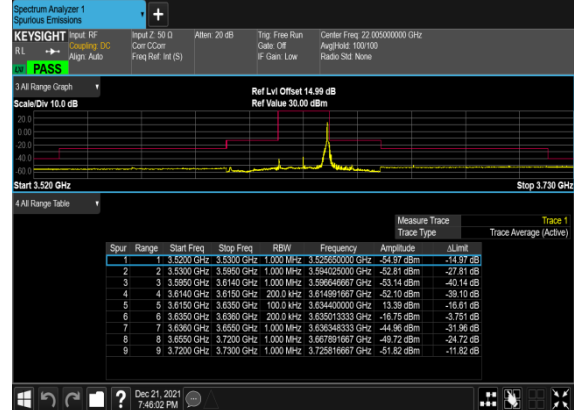




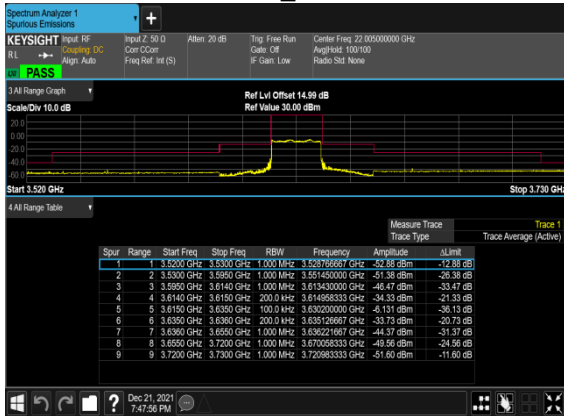
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_Mid_CH



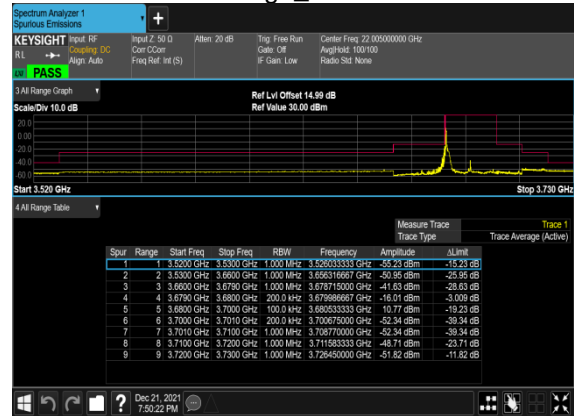
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_Mid_CH



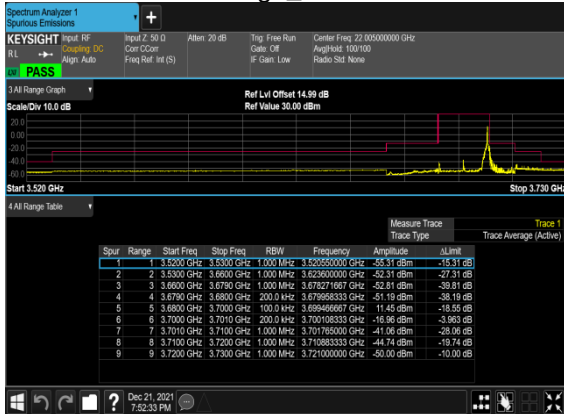
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



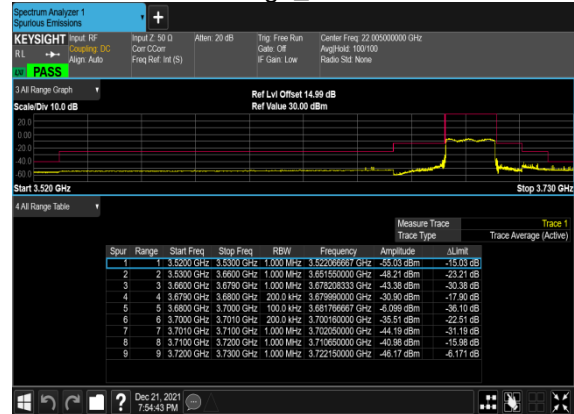
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



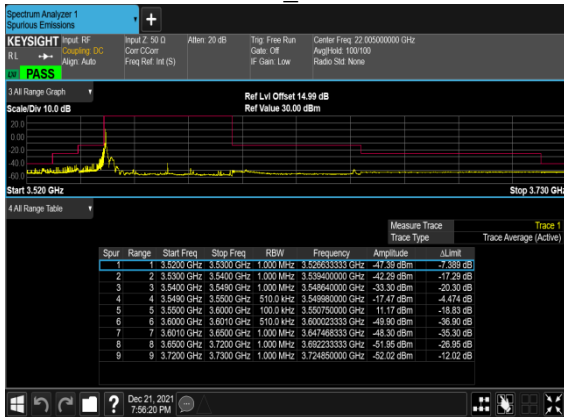
N48(20M)_CP-OFDM_QPSK_Outer_Full_High_CH





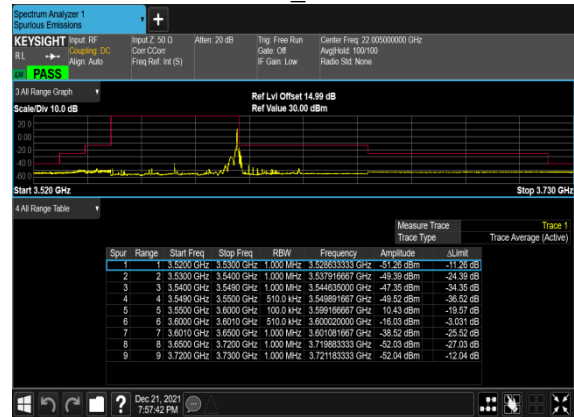
N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_

Low_CH



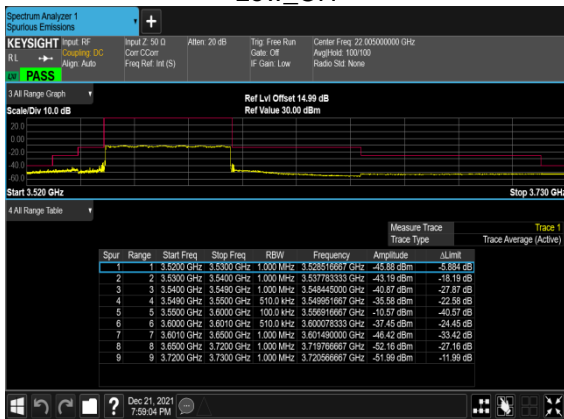
N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_

Low_CH



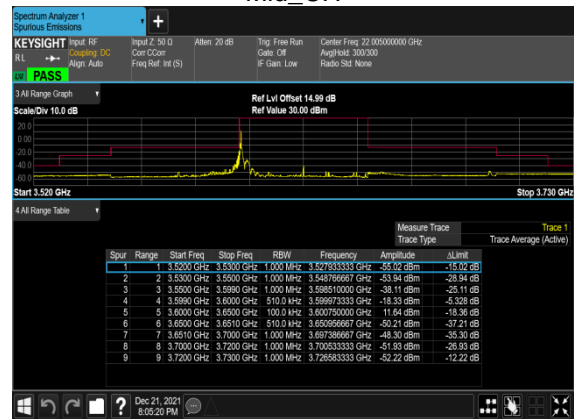
N48(50M)_CP-OFDM_QPSK_Outer_Full_

Low_CH



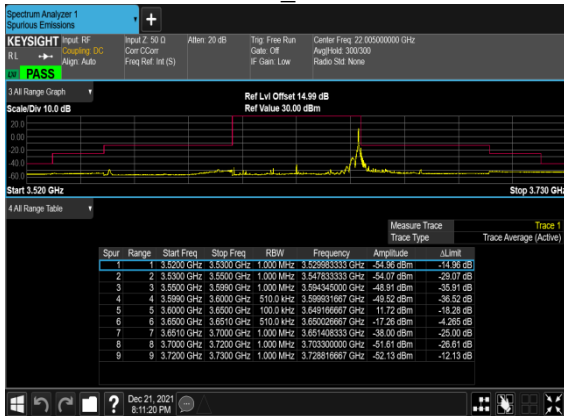
N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_

Mid_CH



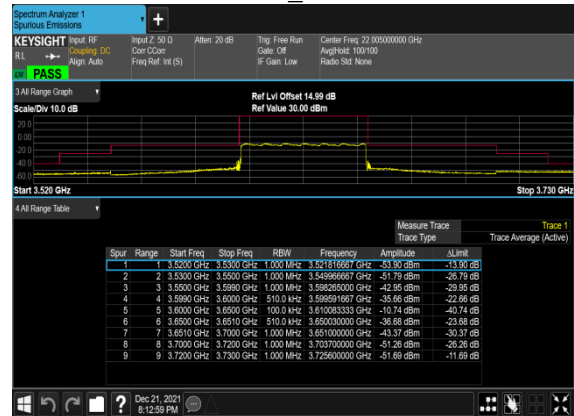
N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_

Mid_CH



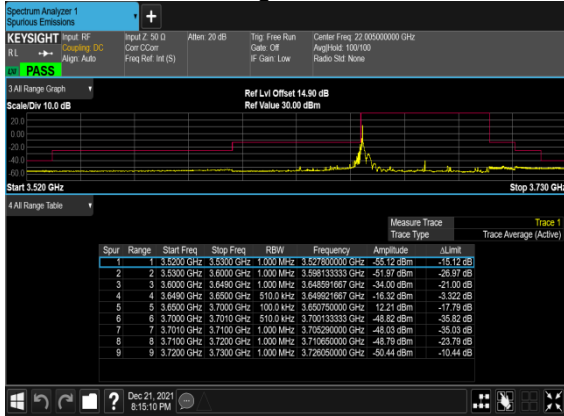
N48(50M)_CP-OFDM_QPSK_Outer_Full_

Mid_CH

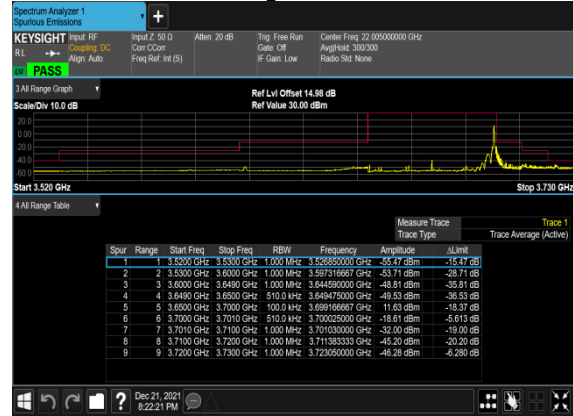




N48(50M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(50M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(50M)_CP-OFDM_QPSK_Outer_Full_High_CH





A5. FR1 N48 MIMO-ANT6 – SCS 15kHz

A5.1 Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0519	PASS	NV
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0462	PASS	LV
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0446	PASS	HV
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0469	PASS	-30°C
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0058	PASS	-20°C
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0495	PASS	-10°C
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0532	PASS	0°C
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0421	PASS	10°C
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0255	PASS	20°C
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0621	PASS	30°C
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0249	PASS	40°C
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	0.0032	PASS	50°C

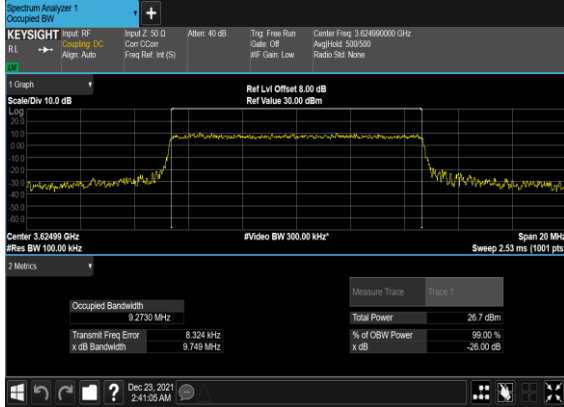


A5.2 Occupied Bandwidth

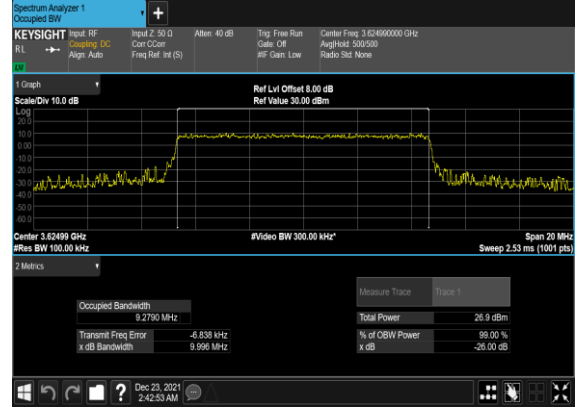
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
48	15	10	641666	3624.99	CP-OFDM QPSK	52@0	9.273	9.749
48	15	10	641666	3624.99	CP-OFDM 16 QAM	52@0	9.279	9.996
48	15	10	641666	3624.99	CP-OFDM 64 QAM	52@0	9.2956	9.882
48	15	10	641666	3624.99	CP-OFDM 256 QAM	52@0	9.2724	9.801
48	15	15	641666	3624.99	CP-OFDM QPSK	79@0	14.103	14.81
48	15	15	641666	3624.99	CP-OFDM 16 QAM	79@0	14.106	14.73
48	15	15	641666	3624.99	CP-OFDM 64 QAM	79@0	14.088	14.79
48	15	15	641666	3624.99	CP-OFDM 256 QAM	79@0	14.069	14.7
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	18.914	19.73
48	15	20	641666	3624.99	CP-OFDM 16 QAM	106@0	18.927	19.61
48	15	20	641666	3624.99	CP-OFDM 64 QAM	106@0	18.91	19.74
48	15	20	641666	3624.99	CP-OFDM 256 QAM	106@0	18.919	19.83
48	15	40	641666	3624.99	CP-OFDM QPSK	216@0	38.449	39.98
48	15	40	641666	3624.99	CP-OFDM 16 QAM	216@0	38.566	39.88
48	15	40	641666	3624.99	CP-OFDM 64 QAM	216@0	38.515	39.97
48	15	40	641666	3624.99	CP-OFDM 256 QAM	216@0	38.433	39.95
48	15	50	641666	3624.99	CP-OFDM QPSK	270@0	48.148	49.75
48	15	50	641666	3624.99	CP-OFDM 16 QAM	270@0	48.23	49.86
48	15	50	641666	3624.99	CP-OFDM 64 QAM	270@0	48.152	49.99
48	15	50	641666	3624.99	CP-OFDM 256 QAM	270@0	48.173	49.73



N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



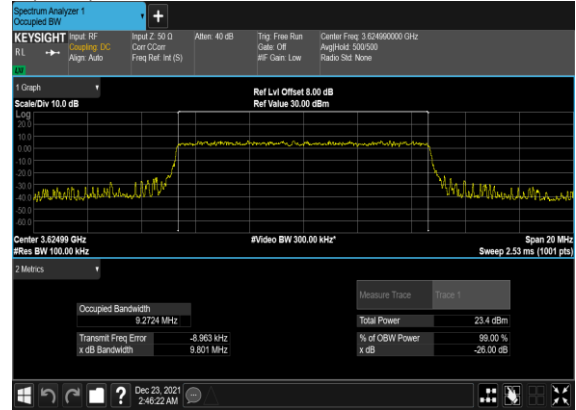
N48(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



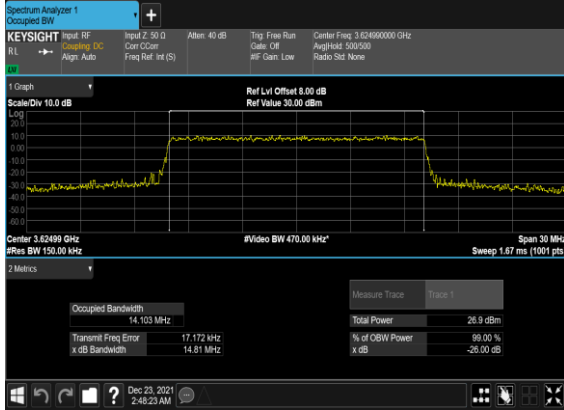
N48(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



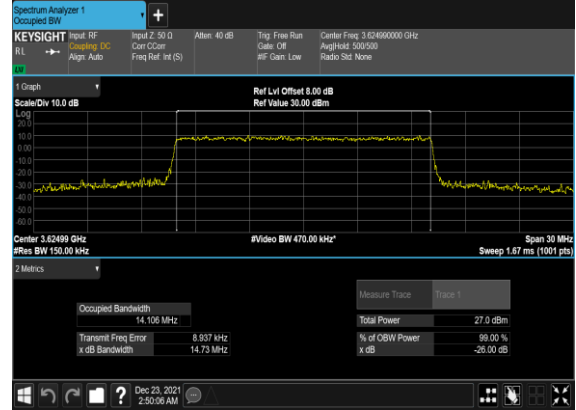
N48(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N48(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

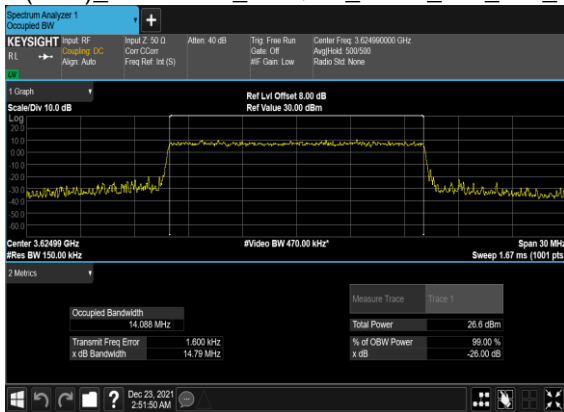


N48(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

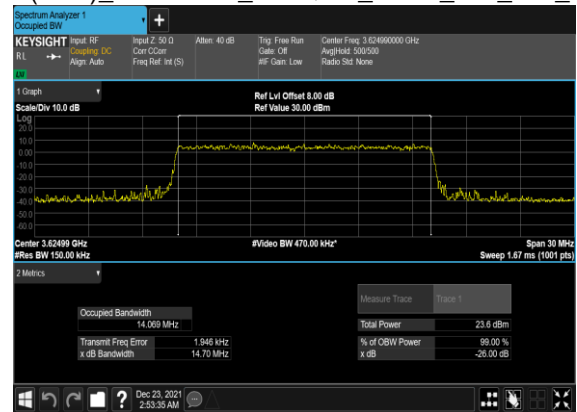




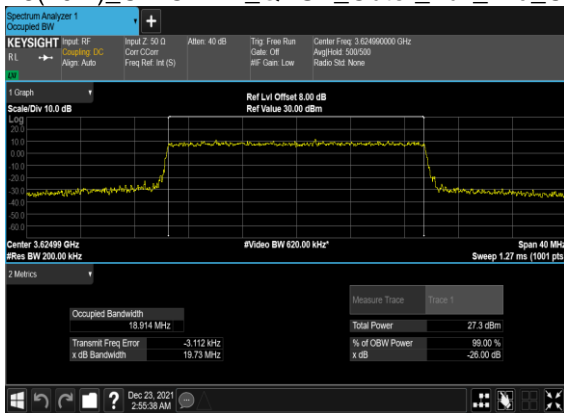
N48(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



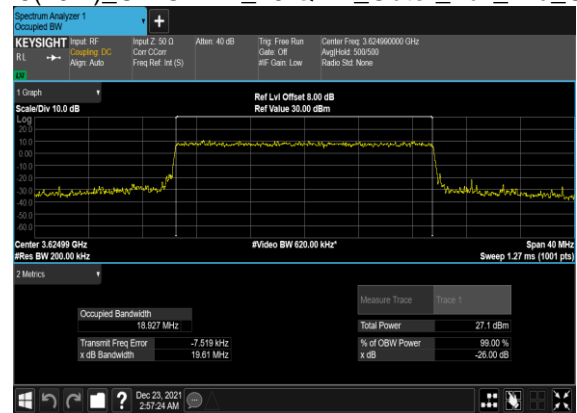
N48(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



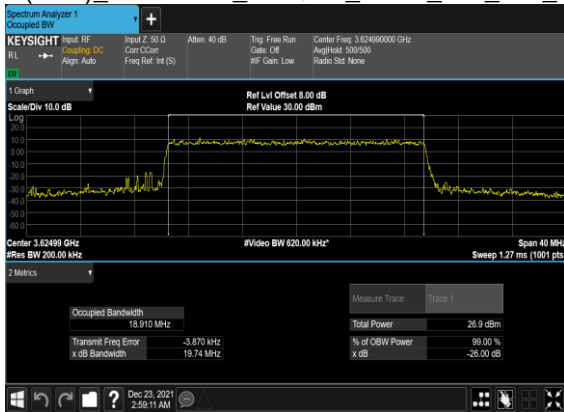
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



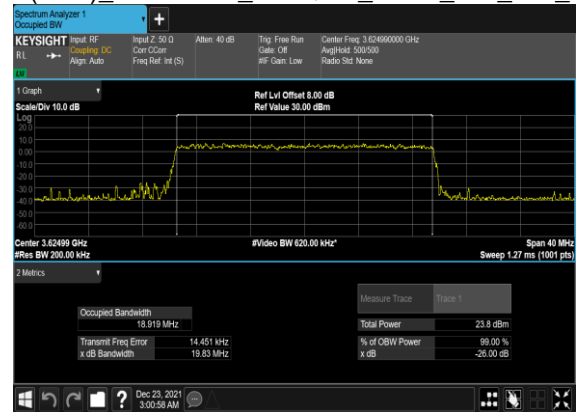
N48(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N48(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

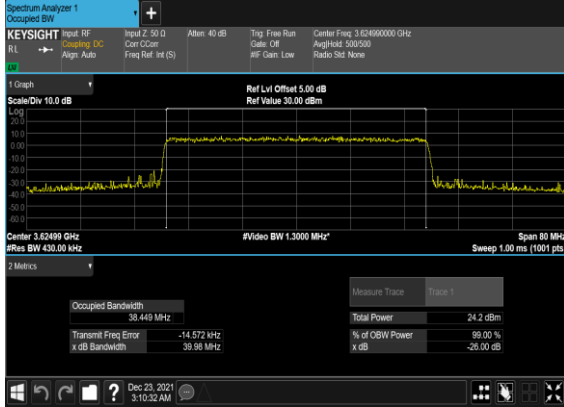


N48(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

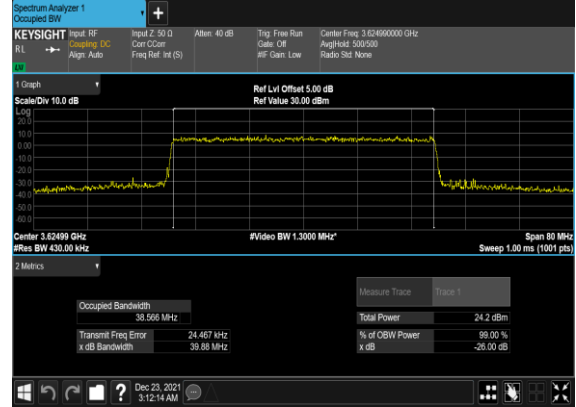




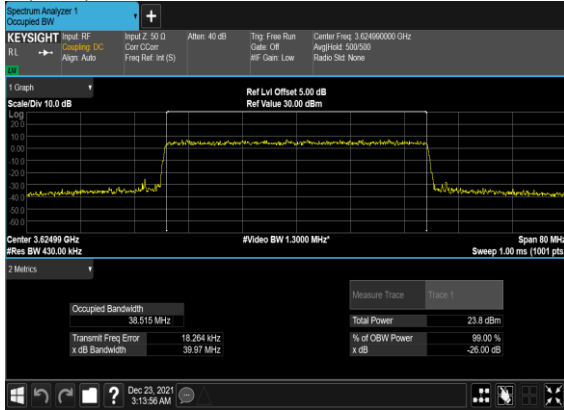
N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



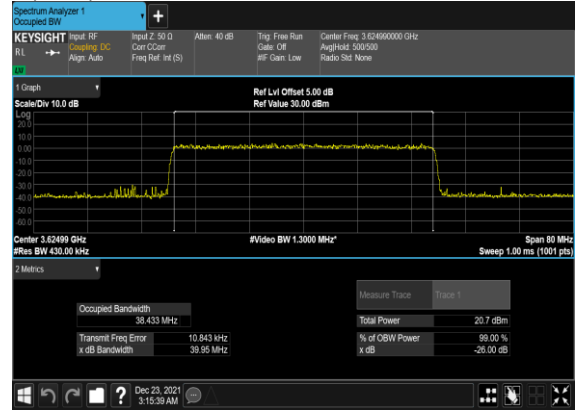
N48(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



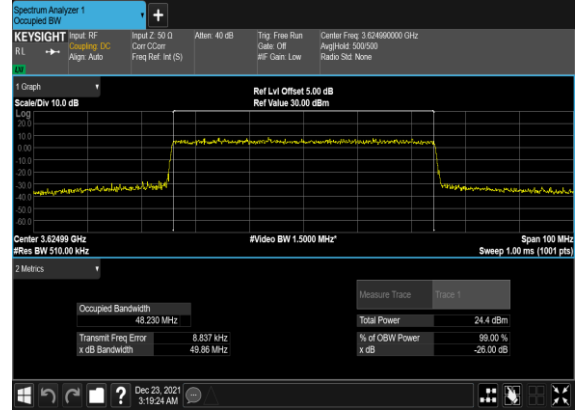
N48(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N48(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



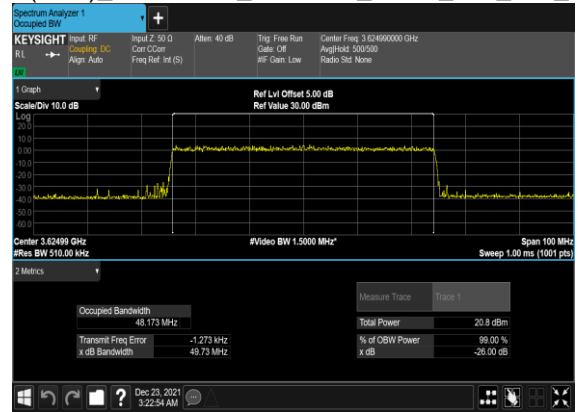
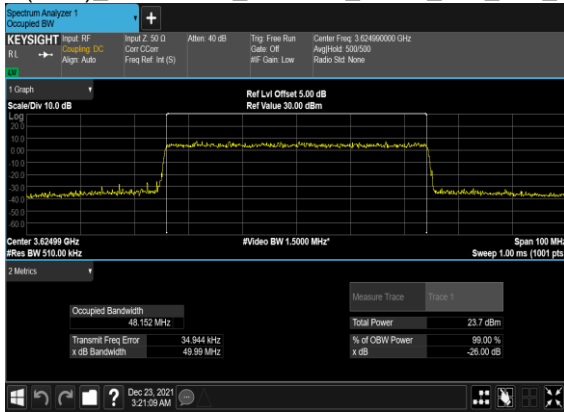
N48(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH





N48(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N48(50M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



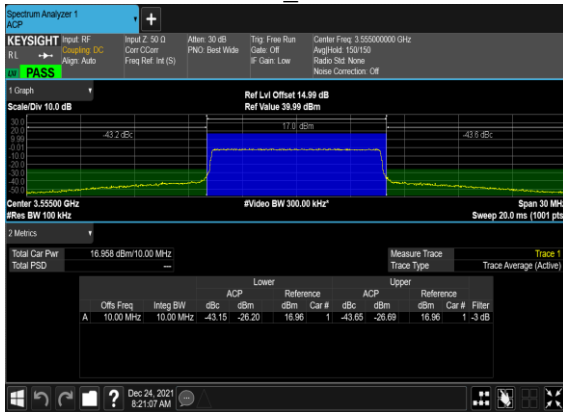


A5.3 Adjacent Channel Leakage Ratio

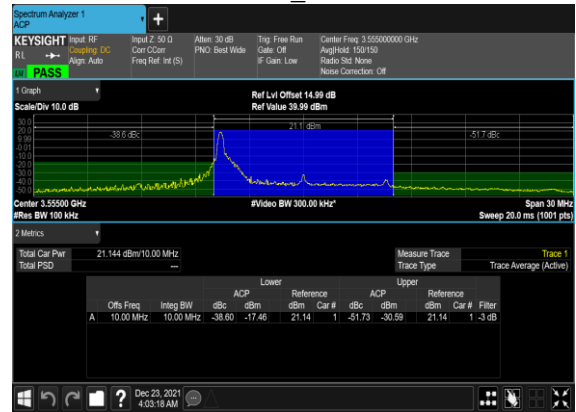
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	15	10	637000	3555.0	CP-s-OFDM QPSK	52@0	-13.15	-13.65	see graph	PASS
48	15	10	637000	3555.0	CP-s-OFDM QPSK	1@0	-8.6	-21.73	see graph	PASS
48	15	10	637000	3555.0	CP-s-OFDM QPSK	1@51	-21.47	-9.48	see graph	PASS
48	15	10	641666	3624.99	CP-s-OFDM QPSK	52@0	-11.38	-12.24	see graph	PASS
48	15	10	641666	3624.99	CP-s-OFDM QPSK	1@0	-7.5	-20.56	see graph	PASS
48	15	10	641666	3624.99	CP-s-OFDM QPSK	1@51	-20.85	-7.91	see graph	PASS
48	15	10	646332	3694.98	CP-s-OFDM QPSK	52@0	-11.86	-12.53	see graph	PASS
48	15	10	646332	3694.98	CP-s-OFDM QPSK	1@0	-8.68	-20.65	see graph	PASS
48	15	10	646332	3694.98	CP-s-OFDM QPSK	1@51	-19.88	-9.33	see graph	PASS
48	15	20	637334	3560.01	CP-s-OFDM QPSK	106@0	-13.24	-13.63	see graph	PASS
48	15	20	637334	3560.01	CP-s-OFDM QPSK	1@0	-8.56	-21.76	see graph	PASS
48	15	20	637334	3560.01	CP-s-OFDM QPSK	1@105	-21.22	-8.89	see graph	PASS
48	15	20	641666	3624.99	CP-s-OFDM QPSK	106@0	-11.22	-11.58	see graph	PASS
48	15	20	641666	3624.99	CP-s-OFDM QPSK	1@0	-8.37	-18.69	see graph	PASS
48	15	20	641666	3624.99	CP-s-OFDM QPSK	1@105	-22.25	-10.88	see graph	PASS
48	15	20	646000	3690.0	CP-s-OFDM QPSK	106@0	-11.73	-12.19	see graph	PASS
48	15	20	646000	3690.0	CP-s-OFDM QPSK	1@0	-8.11	-19.13	see graph	PASS
48	15	20	646000	3690.0	CP-s-OFDM QPSK	1@105	-19.27	-8.14	see graph	PASS
48	15	50	638334	3575.01	CP-s-OFDM QPSK	270@0	-11.93	-12.06	see graph	PASS
48	15	50	638334	3575.01	CP-s-OFDM QPSK	1@0	-11.41	-16.37	see graph	PASS
48	15	50	638334	3575.01	CP-s-OFDM QPSK	1@269	-16.48	-11.97	see graph	PASS
48	15	50	641666	3624.99	CP-s-OFDM QPSK	270@0	-11.73	-11.73	see graph	PASS
48	15	50	641666	3624.99	CP-s-OFDM QPSK	1@0	-11.26	-14.76	see graph	PASS
48	15	50	641666	3624.99	CP-s-OFDM QPSK	1@269	-16.73	-12.9	see graph	PASS
48	15	50	645000	3675.0	CP-s-OFDM QPSK	270@0	-11.28	-11.57	see graph	PASS
48	15	50	645000	3675.0	CP-s-OFDM QPSK	1@0	-10.65	-15.7	see graph	PASS
48	15	50	645000	3675.0	CP-s-OFDM QPSK	1@269	-15.29	-10.41	see graph	PASS



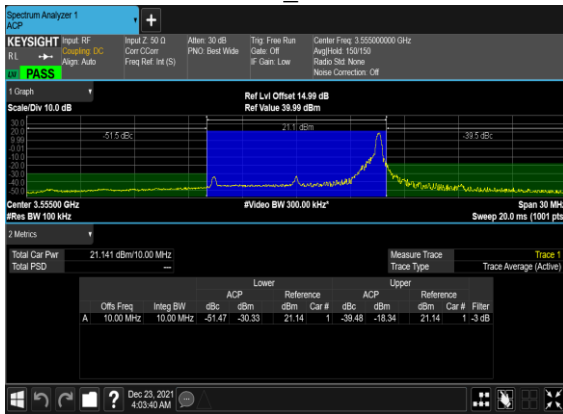
N48(10M)_CP-s-OFDM_QPSK_Outer_Full_ Low_CH



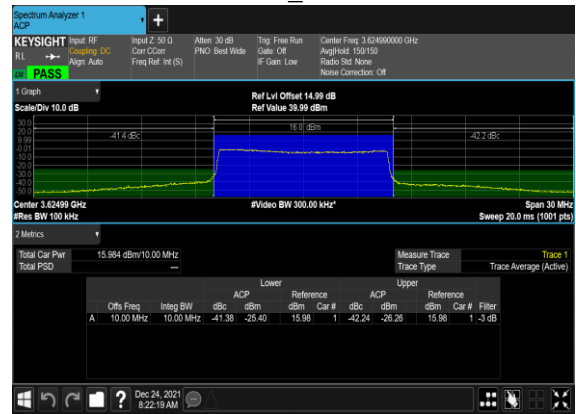
N48(10M)_CP-s-OFDM_QPSK_Edge_1RB_Left_ Low_CH



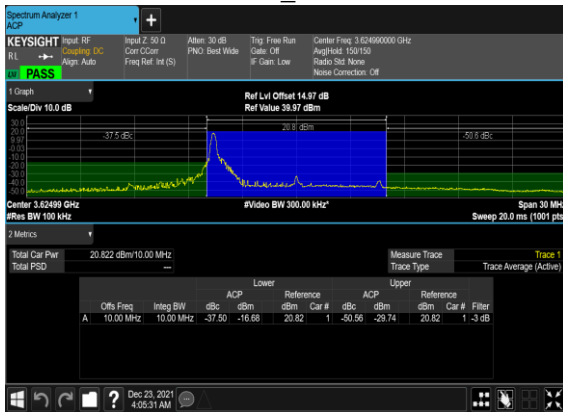
N48(10M)_CP-s-OFDM_QPSK_Edge_1RB_Right_ Low_CH



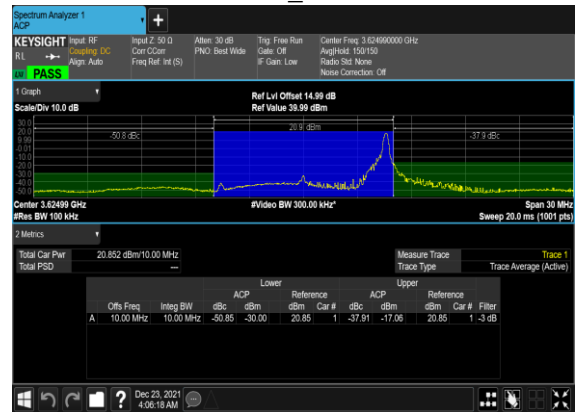
N48(10M)_CP-s-OFDM_QPSK_Outer_Full_ Mid_CH



N48(10M)_CP-s-OFDM_QPSK_Edge_1RB_Left_ Mid_CH

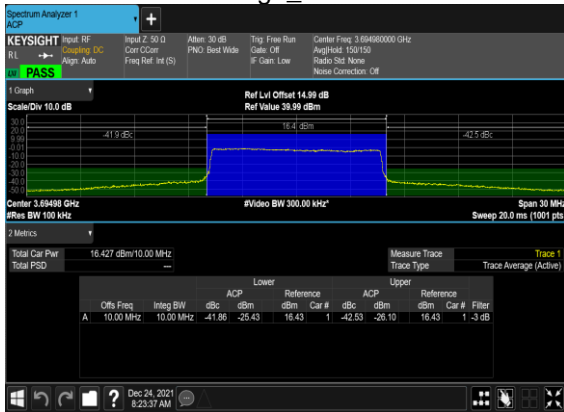


N48(10M)_CP-s-OFDM_QPSK_Edge_1RB_Right_ Mid_CH

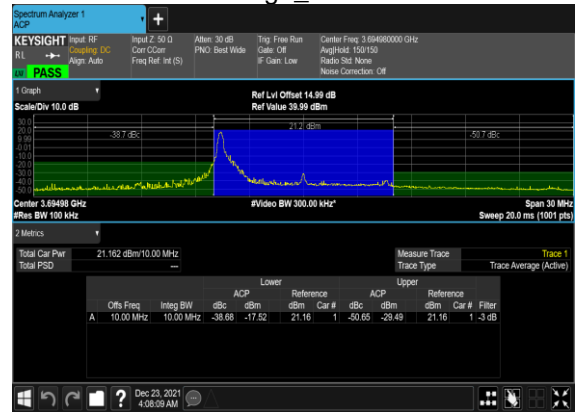




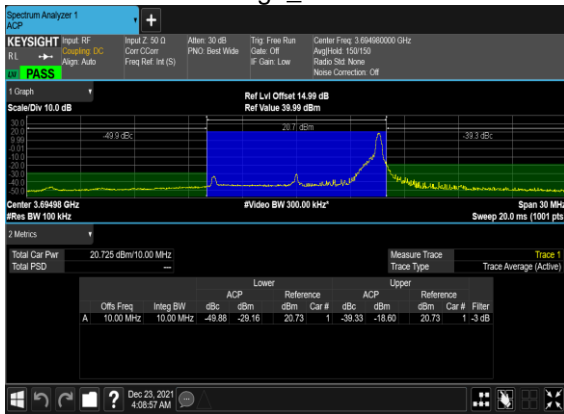
N48(10M)_CP-s-OFDM_QPSK_Outer_Full_High_CH



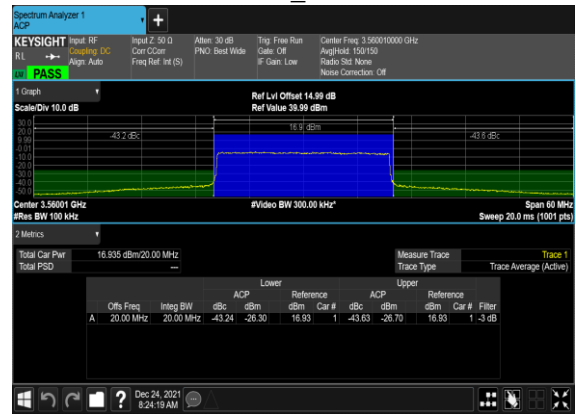
N48(10M)_CP-s-OFDM_QPSK_Edge_1RB_Left_High_CH



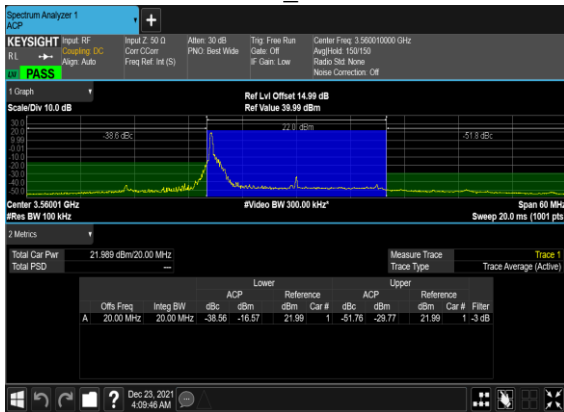
N48(10M)_CP-s-OFDM_QPSK_Edge_1RB_Right_High_CH



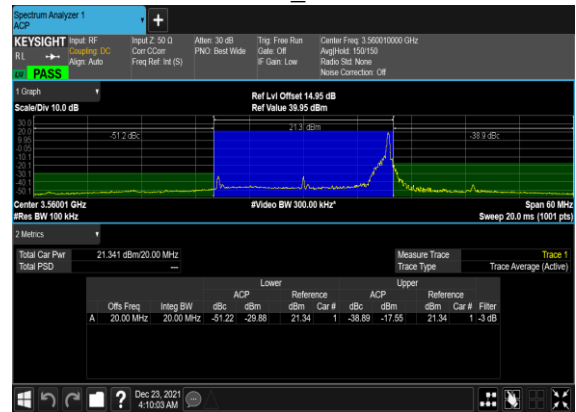
N48(20M)_CP-s-OFDM_QPSK_Outer_Full_Low_CH



N48(20M)_CP-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

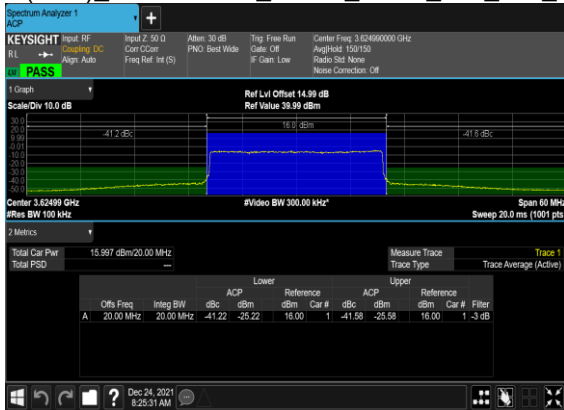


N48(20M)_CP-s-OFDM_QPSK_Edge_1RB_Right_Low_CH

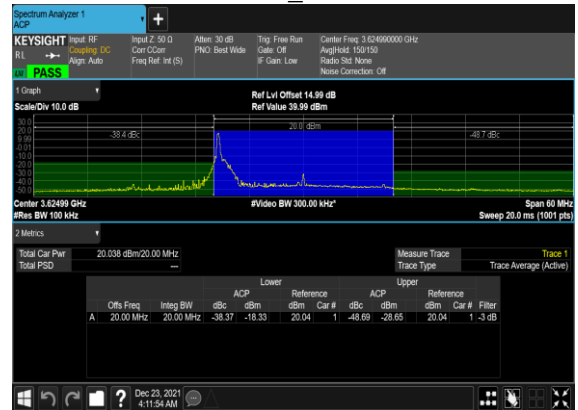




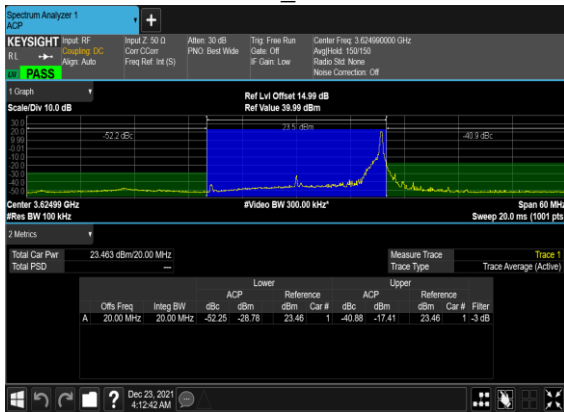
N48(20M)_CP-s-OFDM_QPSK_Outer_Full_Mid_CH



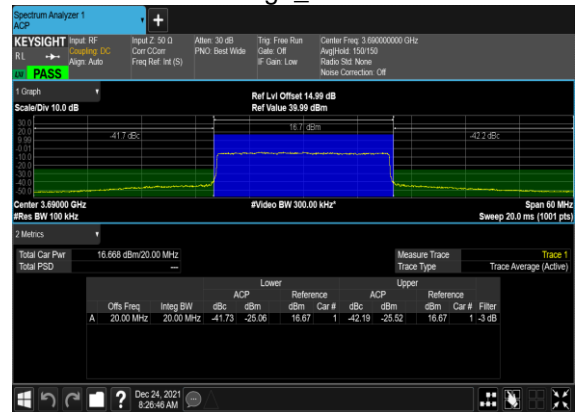
N48(20M)_CP-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



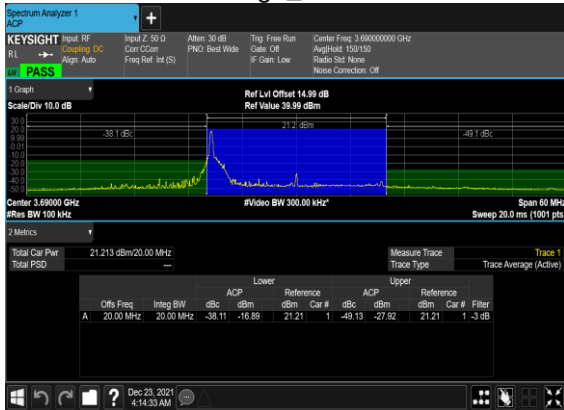
N48(20M)_CP-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



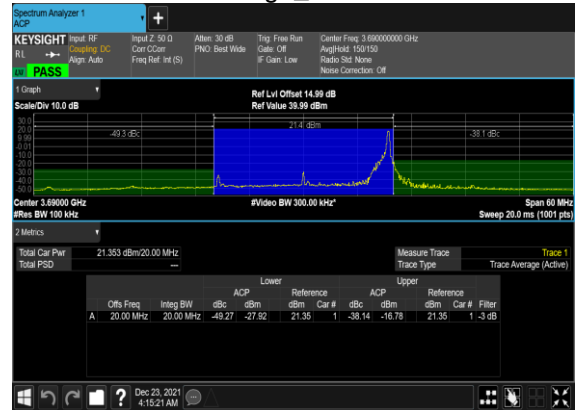
N48(20M)_CP-s-OFDM_QPSK_Outer_Full_High_CH



N48(20M)_CP-s-OFDM_QPSK_Edge_1RB_Left_High_CH

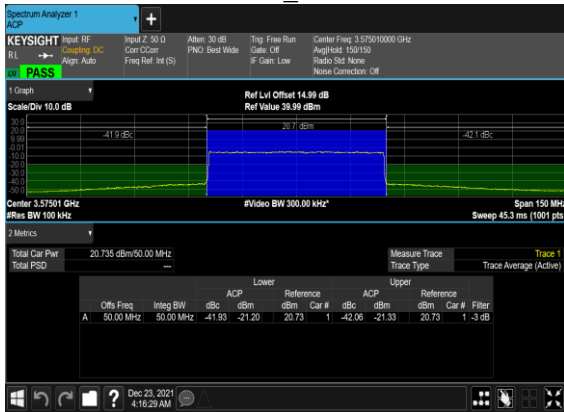


N48(20M)_CP-s-OFDM_QPSK_Edge_1RB_Right_High_CH

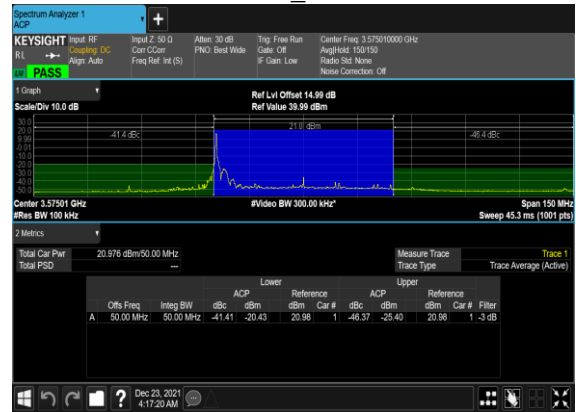




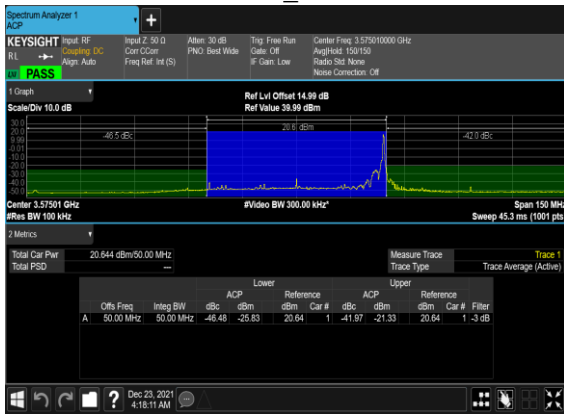
N48(50M)_CP-s-OFDM_QPSK_Outer_Full_ Low_CH



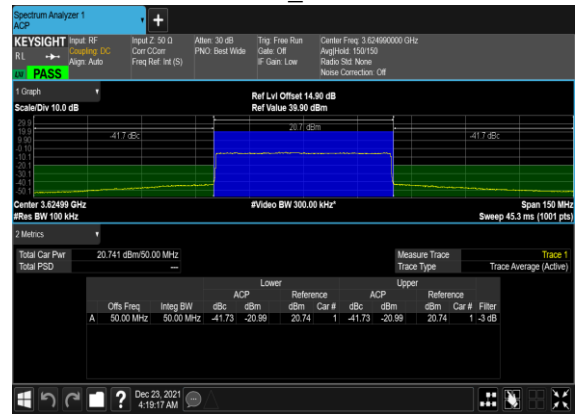
N48(50M)_CP-s-OFDM_QPSK_Edge_1RB_Left_ Low_CH



N48(50M)_CP-s-OFDM_QPSK_Edge_1RB_Right_ Low_CH



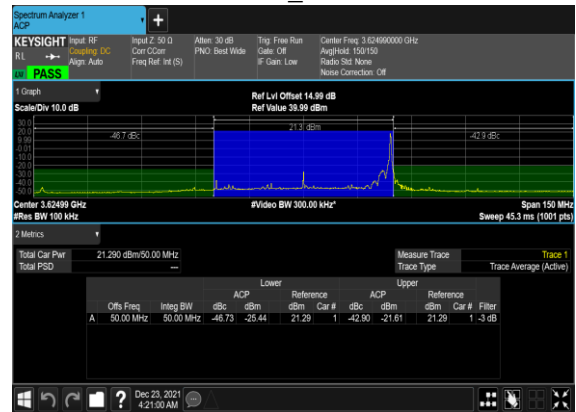
N48(50M)_CP-s-OFDM_QPSK_Outer_Full_ Mid_CH



N48(50M)_CP-s-OFDM_QPSK_Edge_1RB_Left_ Mid_CH

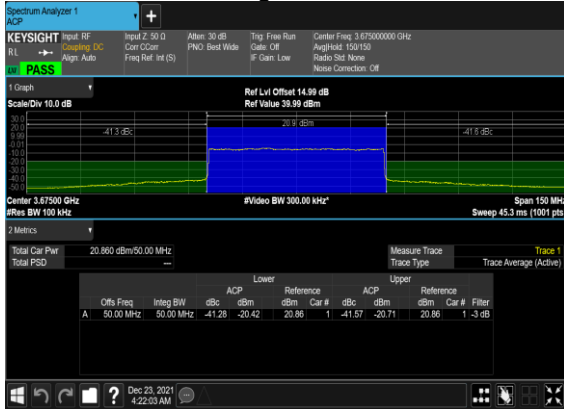


N48(50M)_CP-s-OFDM_QPSK_Edge_1RB_Right_ Mid_CH

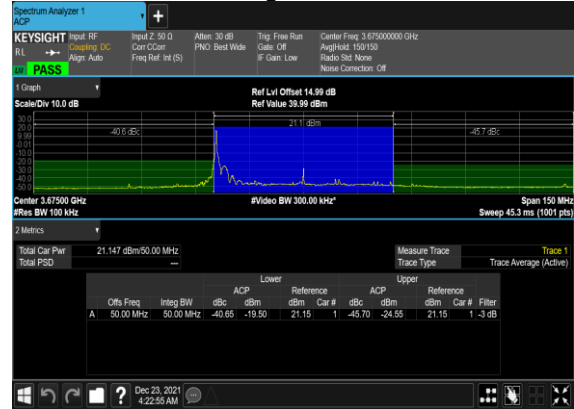




N48(50M)_CP-s-OFDM_QPSK_Outer_Full_High_CH



N48(50M)_CP-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(50M)_CP-s-OFDM_QPSK_Edge_1RB_Right_High_CH





A5.4 Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	15	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	---
48	15	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	PASS
48	15	10	637000	3555.0	CP-OFDM QPSK	1@0	see graph	PASS
48	15	10	637000	3555.0	CP-OFDM QPSK	1@51	see graph	---
48	15	10	637000	3555.0	CP-OFDM QPSK	1@51	see graph	PASS
48	15	10	637000	3555.0	CP-OFDM QPSK	1@51	see graph	PASS
48	15	10	637000	3555.0	CP-OFDM QPSK	52@0	see graph	---
48	15	10	637000	3555.0	CP-OFDM QPSK	52@0	see graph	PASS
48	15	10	637000	3555.0	CP-OFDM QPSK	52@0	see graph	PASS
48	15	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	15	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	15	10	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	15	10	641666	3624.99	CP-OFDM QPSK	1@51	see graph	---
48	15	10	641666	3624.99	CP-OFDM QPSK	1@51	see graph	PASS
48	15	10	641666	3624.99	CP-OFDM QPSK	1@51	see graph	PASS
48	15	10	641666	3624.99	CP-OFDM QPSK	52@0	see graph	---
48	15	10	641666	3624.99	CP-OFDM QPSK	52@0	see graph	PASS
48	15	10	641666	3624.99	CP-OFDM QPSK	52@0	see graph	PASS
48	15	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	---
48	15	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	PASS
48	15	10	646332	3694.98	CP-OFDM QPSK	1@0	see graph	PASS
48	15	10	646332	3694.98	CP-OFDM QPSK	1@51	see graph	---
48	15	10	646332	3694.98	CP-OFDM QPSK	1@51	see graph	PASS
48	15	10	646332	3694.98	CP-OFDM QPSK	1@51	see graph	PASS
48	15	10	646332	3694.98	CP-OFDM QPSK	52@0	see graph	---
48	15	10	646332	3694.98	CP-OFDM QPSK	52@0	see graph	PASS
48	15	10	646332	3694.98	CP-OFDM QPSK	52@0	see graph	PASS
48	15	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	---
48	15	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	PASS
48	15	20	637334	3560.01	CP-OFDM QPSK	1@0	see graph	PASS
48	15	20	637334	3560.01	CP-OFDM QPSK	1@105	see graph	---
48	15	20	637334	3560.01	CP-OFDM QPSK	1@105	see graph	PASS
48	15	20	637334	3560.01	CP-OFDM QPSK	1@105	see graph	PASS



48	15	20	637334	3560.01	CP-OFDM QPSK	106@0	see graph	---
48	15	20	637334	3560.01	CP-OFDM QPSK	106@0	see graph	PASS
48	15	20	637334	3560.01	CP-OFDM QPSK	106@0	see graph	PASS
48	15	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	15	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	15	20	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	15	20	641666	3624.99	CP-OFDM QPSK	1@105	see graph	---
48	15	20	641666	3624.99	CP-OFDM QPSK	1@105	see graph	PASS
48	15	20	641666	3624.99	CP-OFDM QPSK	1@105	see graph	PASS
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	see graph	---
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	see graph	PASS
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	see graph	PASS
48	15	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	---
48	15	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	PASS
48	15	20	646000	3690.0	CP-OFDM QPSK	1@0	see graph	PASS
48	15	20	646000	3690.0	CP-OFDM QPSK	1@105	see graph	---
48	15	20	646000	3690.0	CP-OFDM QPSK	1@105	see graph	PASS
48	15	20	646000	3690.0	CP-OFDM QPSK	1@105	see graph	PASS
48	15	20	646000	3690.0	CP-OFDM QPSK	106@0	see graph	---
48	15	20	646000	3690.0	CP-OFDM QPSK	106@0	see graph	PASS
48	15	20	646000	3690.0	CP-OFDM QPSK	106@0	see graph	PASS
48	15	50	638334	3575.01	CP-OFDM QPSK	1@0	see graph	---
48	15	50	638334	3575.01	CP-OFDM QPSK	1@0	see graph	PASS
48	15	50	638334	3575.01	CP-OFDM QPSK	1@0	see graph	PASS
48	15	50	638334	3575.01	CP-OFDM QPSK	1@269	see graph	---
48	15	50	638334	3575.01	CP-OFDM QPSK	1@269	see graph	PASS
48	15	50	638334	3575.01	CP-OFDM QPSK	1@269	see graph	PASS
48	15	50	638334	3575.01	CP-OFDM QPSK	270@0	see graph	---
48	15	50	638334	3575.01	CP-OFDM QPSK	270@0	see graph	PASS
48	15	50	638334	3575.01	CP-OFDM QPSK	270@0	see graph	PASS
48	15	50	641666	3624.99	CP-OFDM QPSK	1@0	see graph	---
48	15	50	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	15	50	641666	3624.99	CP-OFDM QPSK	1@0	see graph	PASS
48	15	50	641666	3624.99	CP-OFDM QPSK	1@269	see graph	---
48	15	50	641666	3624.99	CP-OFDM QPSK	1@269	see graph	PASS



48	15	50	641666	3624.99	CP-OFDM QPSK	1@269	see graph	PASS
48	15	50	641666	3624.99	CP-OFDM QPSK	270@0	see graph	---
48	15	50	641666	3624.99	CP-OFDM QPSK	270@0	see graph	PASS
48	15	50	641666	3624.99	CP-OFDM QPSK	270@0	see graph	PASS
48	15	50	645000	3675.0	CP-OFDM QPSK	1@0	see graph	---
48	15	50	645000	3675.0	CP-OFDM QPSK	1@0	see graph	PASS
48	15	50	645000	3675.0	CP-OFDM QPSK	1@0	see graph	PASS
48	15	50	645000	3675.0	CP-OFDM QPSK	1@269	see graph	---
48	15	50	645000	3675.0	CP-OFDM QPSK	1@269	see graph	PASS
48	15	50	645000	3675.0	CP-OFDM QPSK	1@269	see graph	PASS
48	15	50	645000	3675.0	CP-OFDM QPSK	270@0	see graph	---
48	15	50	645000	3675.0	CP-OFDM QPSK	270@0	see graph	PASS
48	15	50	645000	3675.0	CP-OFDM QPSK	270@0	see graph	PASS



N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_ Low_CH



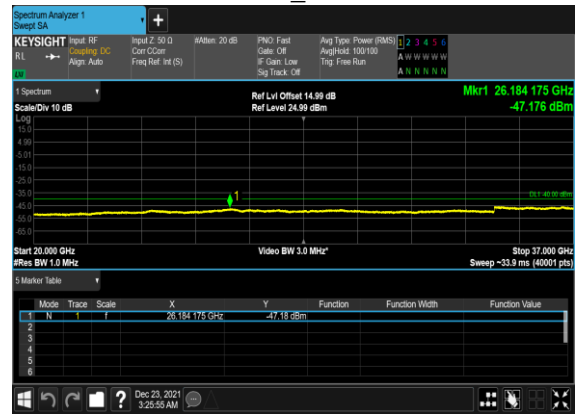
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_ Low_CH



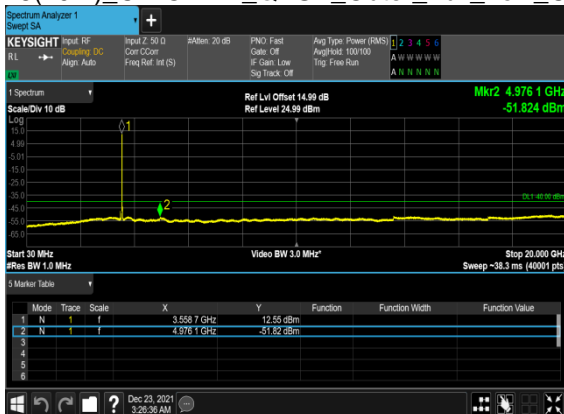
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_ Low_CH



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





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_Right_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_Outer_Full_Mid_CH

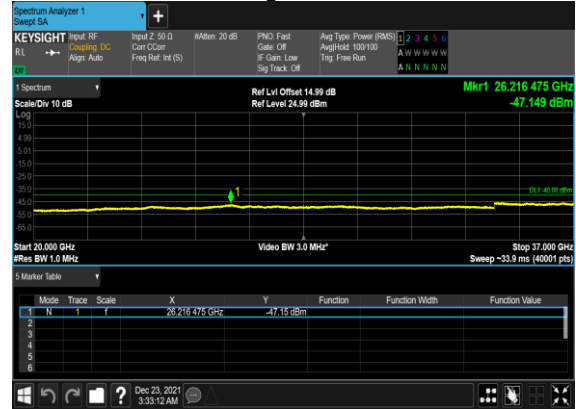




N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



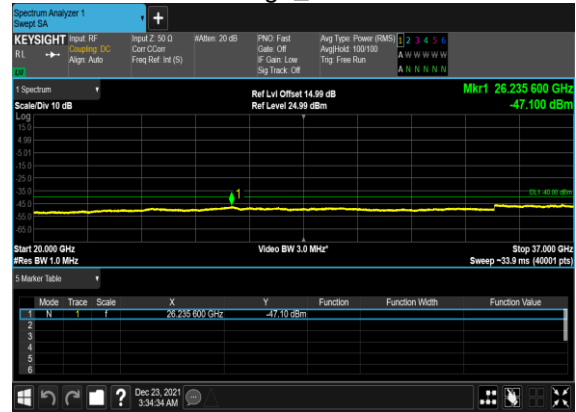
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



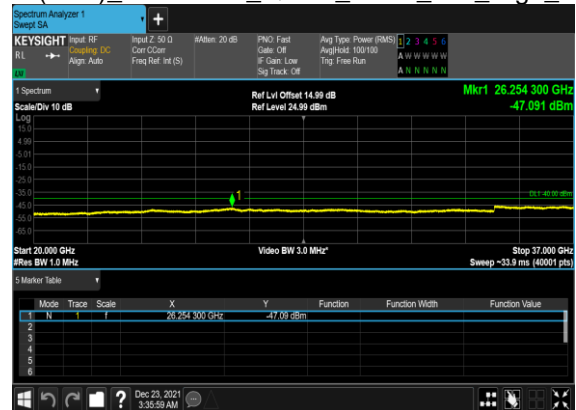
N48(10M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(10M)_CP-OFDM_QPSK_Outer_Full_High_CH



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_Left_ Low_CH



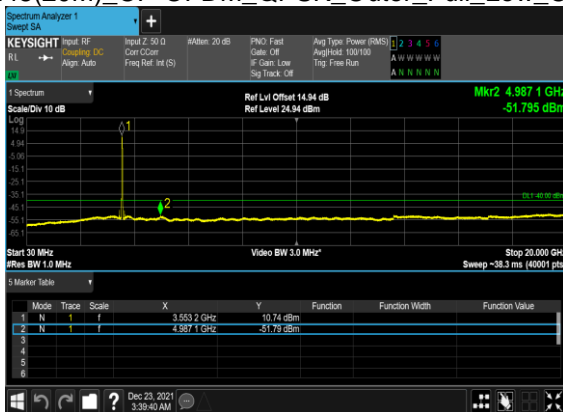
N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_ Low_CH



N48(20M)_CP-OFDM_QPSK_Edge_1RB_Right_ Low_CH



N48(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH



N48(20M)_CP-OFDM_QPSK_Outer_Full_Low_CH

