



Software Version: 23.06.1602

FR1 N78 MIMO-Ant 3+Ant 7**Transmitter Conducted Output Power And EIRP, (G_T - L_c)= -2.01dBi**

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	ANT3 Power(dBm)	ANT7 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	21.36	21.94	24.67	22.66	0.1845
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	20.69	21.37	24.05	22.04	0.1601
77	30	20	630668	3460.02	CP-OFDM 64 QAM	1@1	19.38	19.90	22.66	20.65	0.1161
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	21.66	22.03	24.86	22.85	0.1927
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	21.17	21.35	24.27	22.26	0.1683
77	30	20	633334	3500.01	CP-OFDM 64 QAM	1@1	19.77	20.10	22.95	20.94	0.1241
77	30	20	636000	3540	CP-OFDM QPSK	1@1	22.69	22.63	25.67	23.66	0.2323
77	30	20	636000	3540	CP-OFDM 16 QAM	1@1	22.06	21.45	24.78	22.77	0.1891
77	30	20	636000	3540	CP-OFDM 64 QAM	1@1	20.67	20.17	23.44	21.43	0.1389
77	30	30	631000	3465	CP-OFDM QPSK	1@1	21.51	22.02	24.78	22.77	0.1894
77	30	30	631000	3465	CP-OFDM 16 QAM	1@1	20.88	21.65	24.29	22.28	0.1691
77	30	30	631000	3465	CP-OFDM 64 QAM	1@1	19.49	20.09	22.81	20.80	0.1202
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	21.75	22.14	24.96	22.95	0.1972
77	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	21.10	21.62	24.38	22.37	0.1725
77	30	30	633334	3500.01	CP-OFDM 64 QAM	1@1	19.77	20.15	22.97	20.96	0.1249
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	22.10	22.18	25.15	23.14	0.2061
77	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	21.49	21.68	24.60	22.59	0.1814
77	30	30	635666	3534.99	CP-OFDM 64 QAM	1@1	20.21	20.22	23.23	21.22	0.1323
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	21.41	22.23	24.85	22.84	0.1923
77	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	20.87	21.65	24.29	22.28	0.1690
77	30	40	631334	3470.01	CP-OFDM 64 QAM	1@1	19.41	20.20	22.83	20.82	0.1209
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	21.75	22.34	25.07	23.06	0.2021
77	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	21.28	21.50	24.40	22.39	0.1734
77	30	40	633334	3500.01	CP-OFDM 64 QAM	1@1	19.86	20.30	23.10	21.09	0.1284
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	22.08	22.18	25.14	23.13	0.2056
77	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	21.63	21.45	24.55	22.54	0.1795
77	30	40	635332	3529.98	CP-OFDM 64 QAM	1@1	20.20	20.15	23.19	21.18	0.1311
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	21.25	21.87	24.58	22.57	0.1808
77	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	20.51	21.35	23.96	21.95	0.1567
77	30	50	631668	3475.02	CP-OFDM 64 QAM	1@1	19.27	19.86	22.59	20.58	0.1142
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	21.85	21.84	24.86	22.85	0.1925
77	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	21.20	21.37	24.30	22.29	0.1693
77	30	50	633334	3500.01	CP-OFDM 64 QAM	1@1	19.80	19.88	22.85	20.84	0.1214
77	30	50	635000	3525	CP-OFDM QPSK	1@1	22.26	21.90	25.09	23.08	0.2034



77	30	50	635000	3525	CP-OFDM 16 QAM	1@1	21.78	21.36	24.59	22.58	0.1809
77	30	50	635000	3525	CP-OFDM 64 QAM	1@1	20.41	19.91	23.18	21.17	0.1308
77	30	60	632000	3480	CP-OFDM QPSK	1@1	21.37	21.91	24.66	22.65	0.1840
77	30	60	632000	3480	CP-OFDM 16 QAM	1@1	20.58	21.40	24.02	22.01	0.1588
77	30	60	632000	3480	CP-OFDM 64 QAM	1@1	19.36	19.93	22.66	20.65	0.1163
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	21.84	21.89	24.88	22.87	0.1934
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	21.14	21.30	24.23	22.22	0.1668
77	30	60	633334	3500.01	CP-OFDM 64 QAM	1@1	19.92	19.83	22.89	20.88	0.1223
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	21.75	22.04	24.91	22.90	0.1949
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	21.11	21.45	24.29	22.28	0.1692
77	30	60	634666	3519.99	CP-OFDM 64 QAM	1@1	19.77	20.06	22.93	20.92	0.1235
77	30	70	632334	3485.01	CP-OFDM QPSK	1@1	21.15	21.85	24.52	22.51	0.1784
77	30	70	632334	3485.01	CP-OFDM 16 QAM	1@1	20.50	21.28	23.92	21.91	0.1552
77	30	70	632334	3485.01	CP-OFDM 64 QAM	1@1	19.24	19.85	22.57	20.56	0.1137
77	30	70	633334	3500.01	CP-OFDM QPSK	1@1	21.33	21.87	24.62	22.61	0.1823
77	30	70	633334	3500.01	CP-OFDM 16 QAM	1@1	20.76	21.15	23.97	21.96	0.1570
77	30	70	633334	3500.01	CP-OFDM 64 QAM	1@1	19.36	19.81	22.60	20.59	0.1146
77	30	70	634332	3514.98	CP-OFDM QPSK	1@1	21.75	21.91	24.84	22.83	0.1919
77	30	70	634332	3514.98	CP-OFDM 16 QAM	1@1	20.97	21.36	24.18	22.17	0.1648
77	30	70	634332	3514.98	CP-OFDM 64 QAM	1@1	19.66	19.93	22.81	20.80	0.1202
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	21.08	21.92	24.53	22.52	0.1787
77	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	20.58	21.09	23.85	21.84	0.1529
77	30	80	632668	3490.02	CP-OFDM 64 QAM	1@1	19.10	19.86	22.51	20.50	0.1121
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	20.86	21.84	24.39	22.38	0.1729
77	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	20.38	21.07	23.75	21.74	0.1492
77	30	80	633334	3500.01	CP-OFDM 64 QAM	1@1	18.90	19.82	22.39	20.38	0.1093
77	30	80	634000	3510	CP-OFDM QPSK	1@1	21.95	21.84	24.91	22.90	0.1948
77	30	80	634000	3510	CP-OFDM 16 QAM	1@1	21.14	21.20	24.18	22.17	0.1648
77	30	80	634000	3510	CP-OFDM 64 QAM	1@1	19.94	19.88	22.92	20.91	0.1233
77	30	90	633000	3495	CP-OFDM QPSK	1@1	21.03	21.90	24.50	22.49	0.1773
77	30	90	633000	3495	CP-OFDM 16 QAM	1@1	20.53	21.09	23.83	21.82	0.1520
77	30	90	633000	3495	CP-OFDM 64 QAM	1@1	19.06	19.87	22.49	20.48	0.1118
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	20.69	21.85	24.32	22.31	0.1702
77	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	20.18	21.08	23.66	21.65	0.1463
77	30	90	633334	3500.01	CP-OFDM 64 QAM	1@1	18.74	19.80	22.31	20.30	0.1072
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	20.84	21.87	24.40	22.39	0.1732
77	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	20.31	21.11	23.74	21.73	0.1489
77	30	90	633666	3504.99	CP-OFDM 64 QAM	1@1	18.92	19.85	22.42	20.41	0.1099
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	21.72	21.62	24.68	22.67	0.1850
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.02	21.85	24.47	22.46	0.1760
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	21.31	21.30	24.32	22.31	0.1700



77	30	100	633334	3500.01	CP-OFDM 16 QAM	137@68	21.28	21.08	24.19	22.18	0.1653
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	20.57	21.17	23.89	21.88	0.1542
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@271	20.75	20.57	23.67	21.66	0.1466
77	30	100	633334	3500.01	CP-OFDM 64 QAM	137@68	19.73	19.63	22.69	20.68	0.1170
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	19.01	19.91	22.49	20.48	0.1118
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@271	19.29	19.28	22.30	20.29	0.1068
77	30	100	633334	3500.01	CP-OFDM 256 QAM	137@68	16.79	16.63	19.72	17.71	0.0590
77	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	16.15	16.73	19.46	17.45	0.0556
77	30	100	633334	3500.01	CP-OFDM 256 QAM	1@271	16.48	16.30	19.40	17.39	0.0548

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Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0044	PASS	NV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0063	PASS	LV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0038	PASS	HV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0069	PASS	-30℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0052	PASS	-20℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0041	PASS	-10℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0028	PASS	0℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0034	PASS	10℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0041	PASS	20℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0025	PASS	30℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0056	PASS	40℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0063	PASS	50℃

**Peak to Average Ratio**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	7.26	13	PASS
78	30	20	633334	3500.01	CP-OFDM QPSK	1@0	7.77	13	PASS
78	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	7.34	13	PASS
78	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	8.67	13	PASS



N78(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N78(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

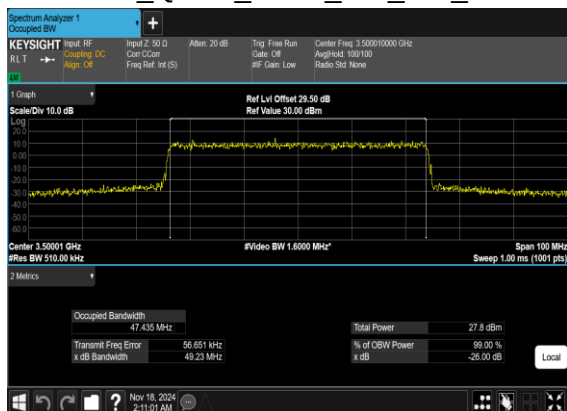


**Occupied Bandwidth**

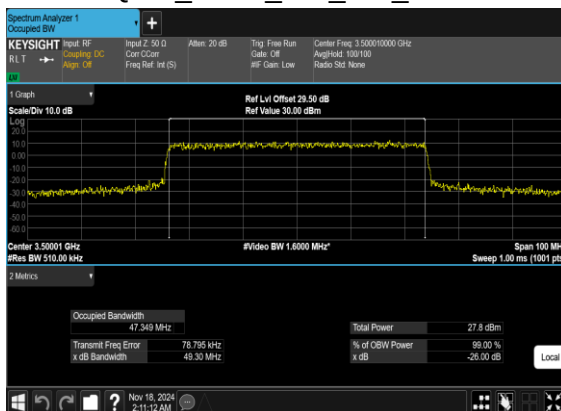
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.435	49.23
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.349	49.3
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.538	49.46
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.326	49.05
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.382	69.82
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.362	69.75
78	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.44	69.71
78	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.521	69.84
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.64	90.29
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.38	90.32
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.338	90.28
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.448	90.21



N78(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



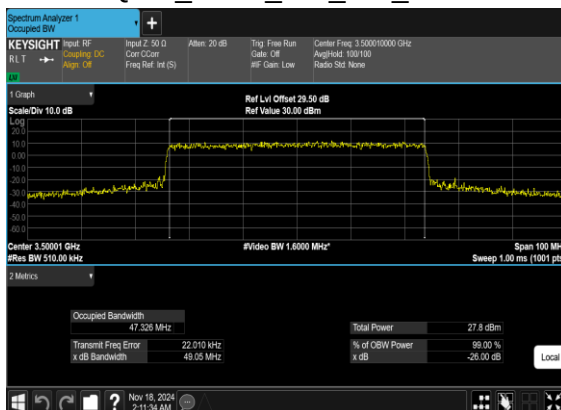
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QAM_Outer_Full_Mid_CH



N78(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

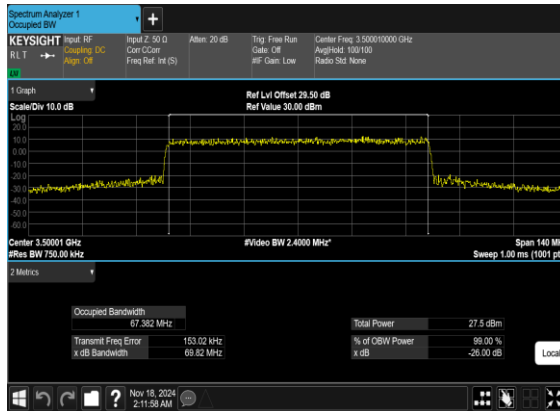


N78(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

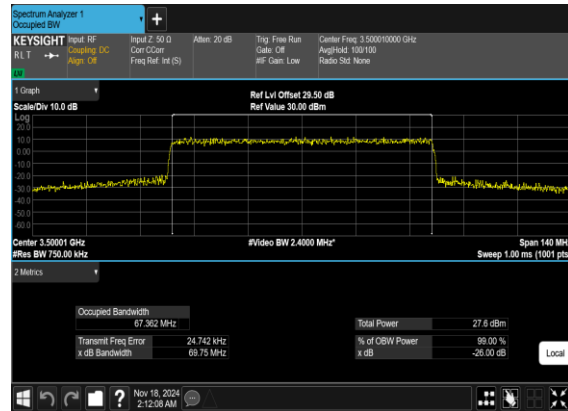




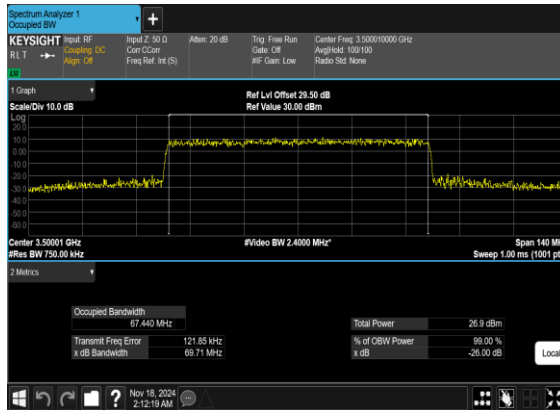
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OFDM_QPSK_Outer_Full_Mid_CH



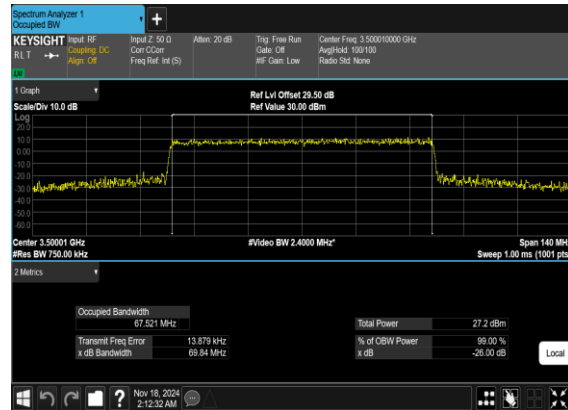
N78(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

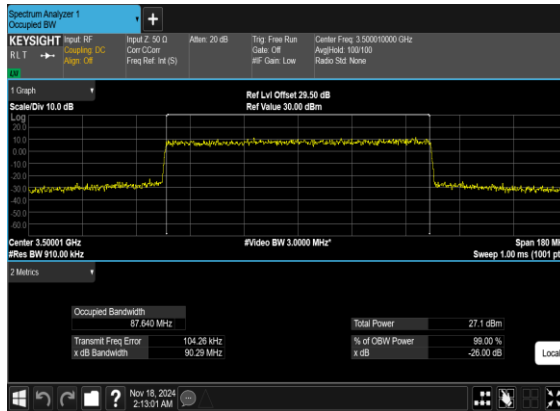


N78(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

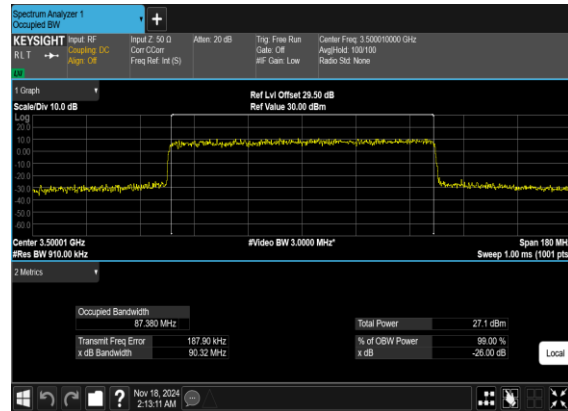




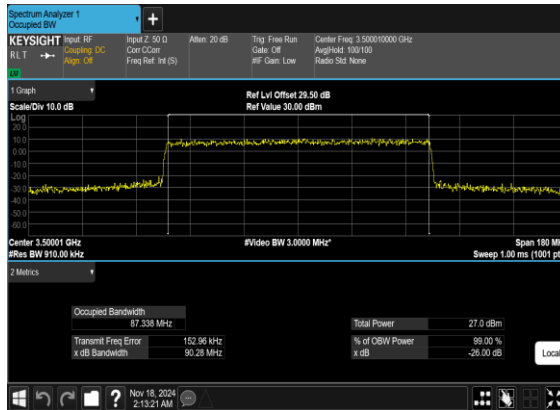
N78(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



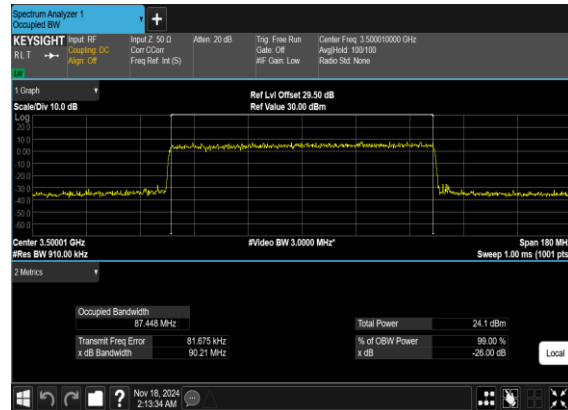
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QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	---
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	---
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
78	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	---
78	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@0	see graph	---
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	---
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	PASS



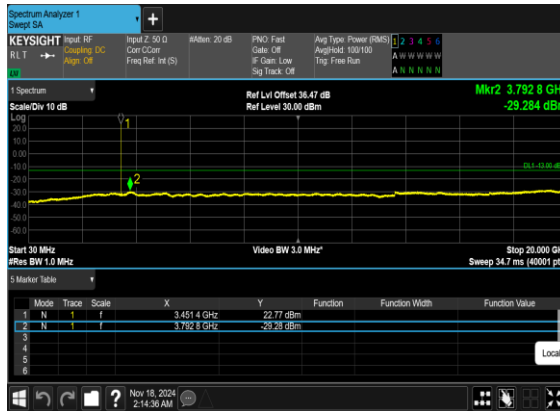
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
78	30	70	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM QPSK	1@0	see graph	---
78	30	70	634332	3514.98	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@0	see graph	---
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	---
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	---
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---



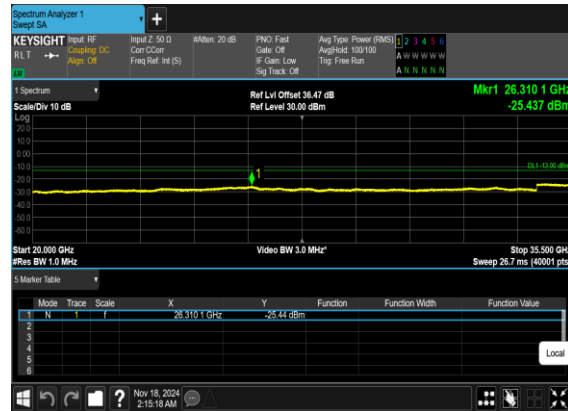
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	---
78	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@0	see graph	---
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@0	see graph	PASS



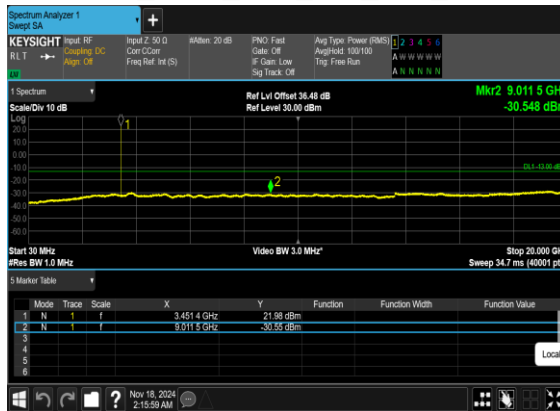
N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



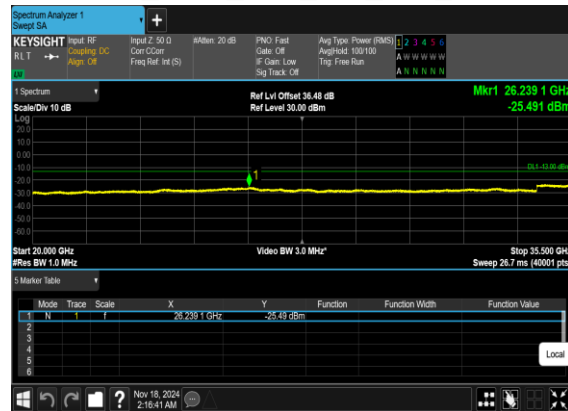
N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

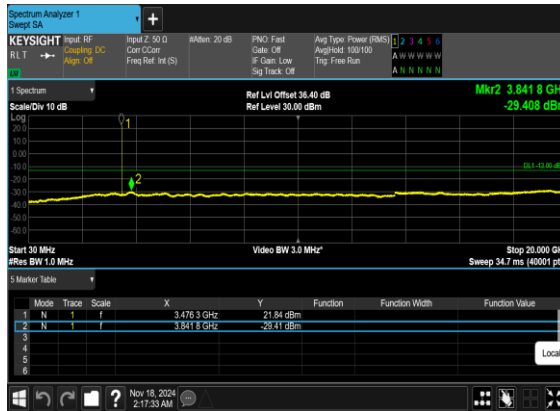


N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

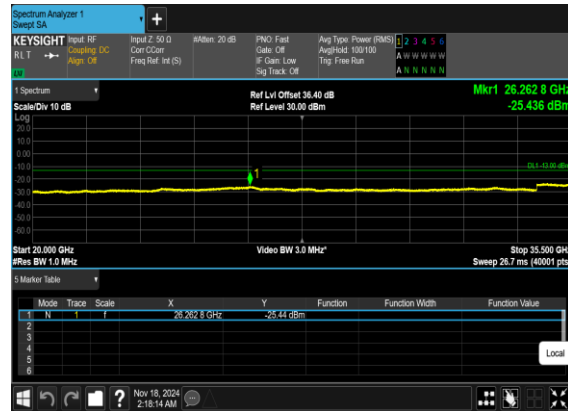




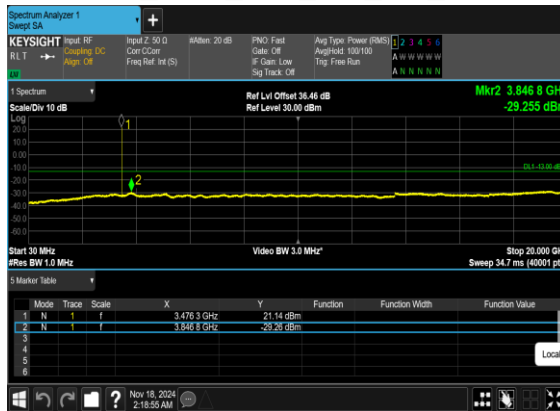
N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



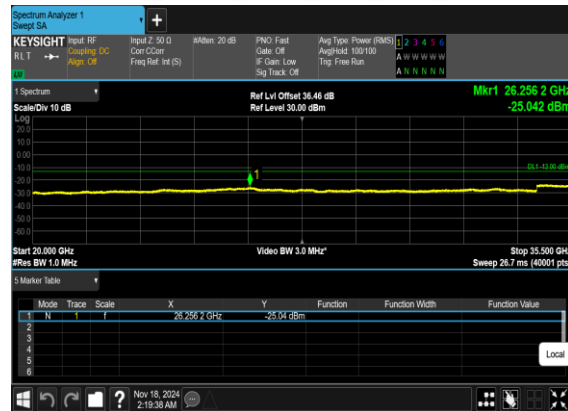
N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

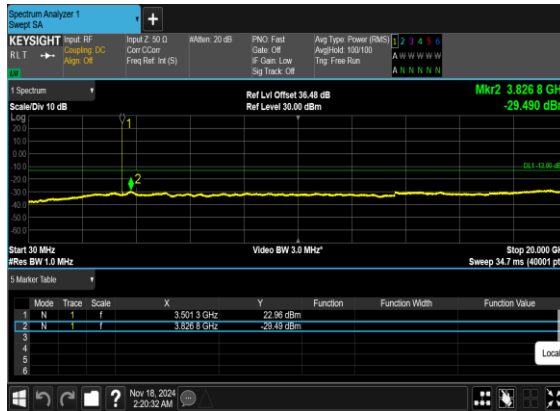


N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

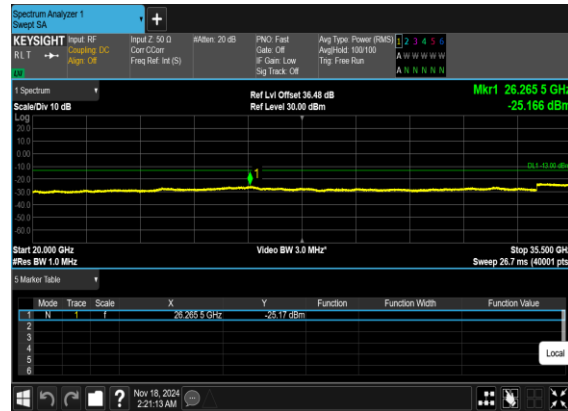




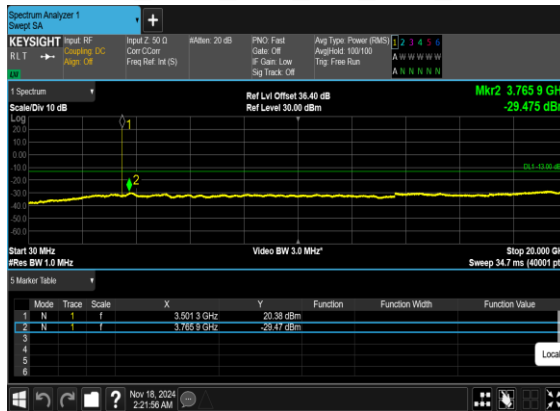
N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



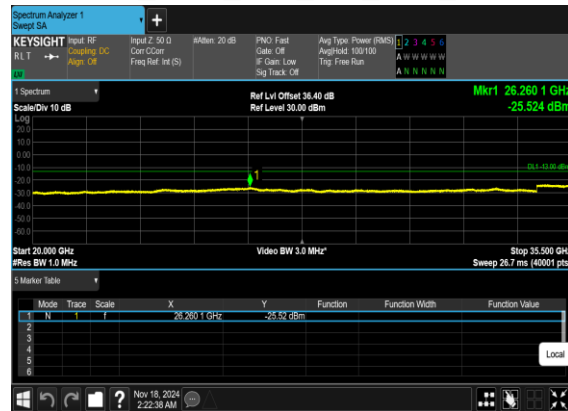
N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH

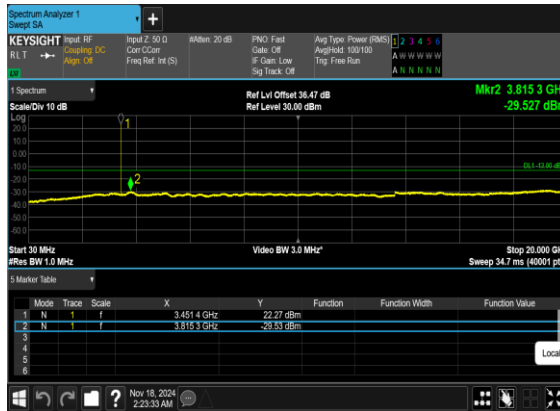


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QAM_Edge_1RB_Left_High_CH

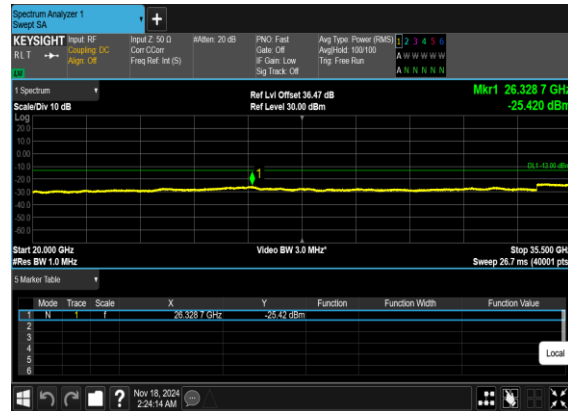




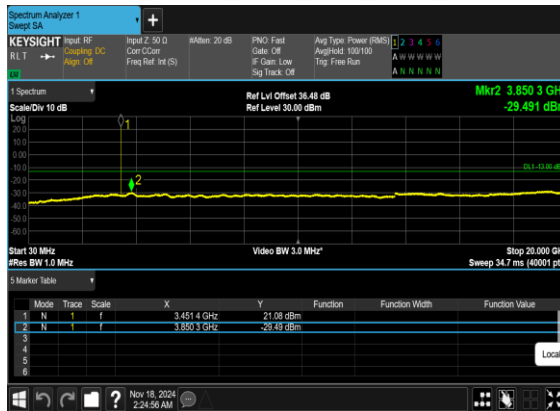
N78(70M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



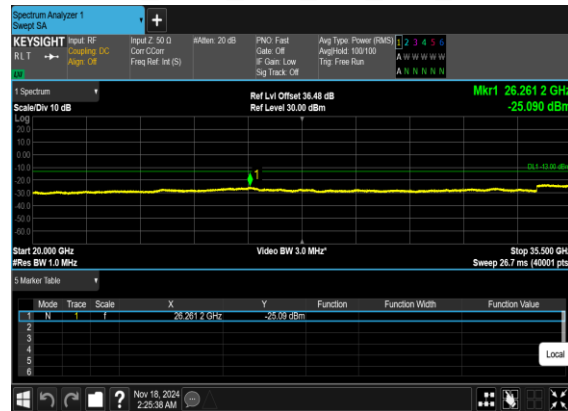
N78(70M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(70M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

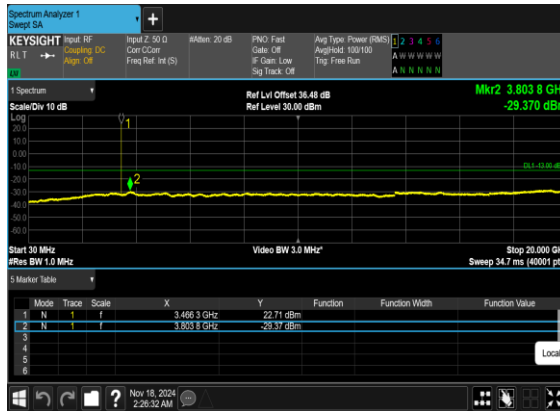


N78(70M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

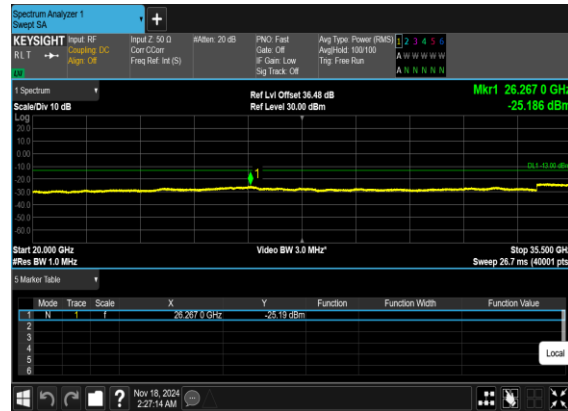




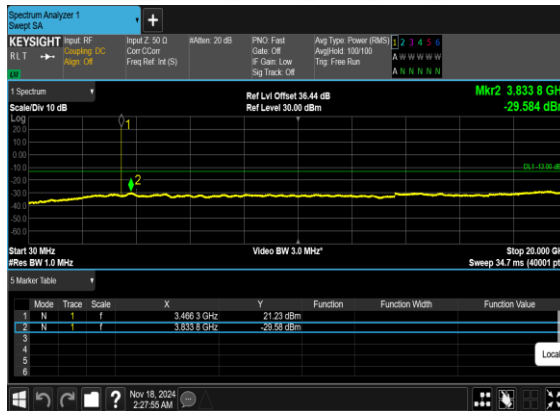
N78(70M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



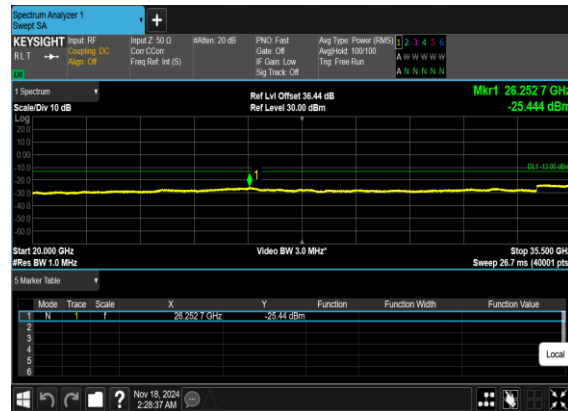
N78(70M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(70M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

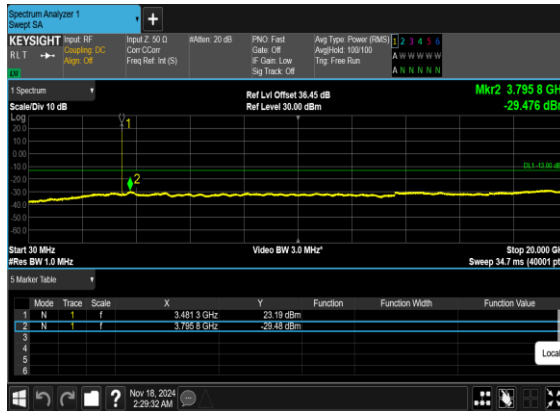


N78(70M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

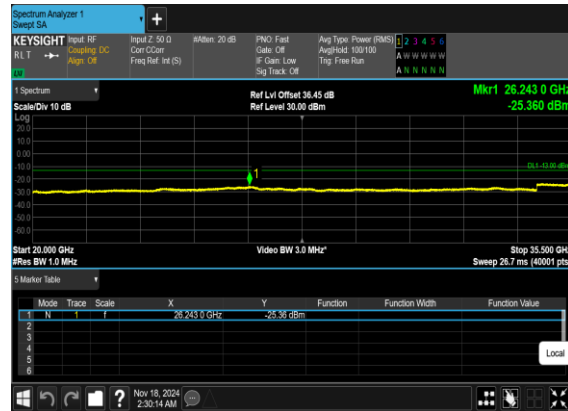




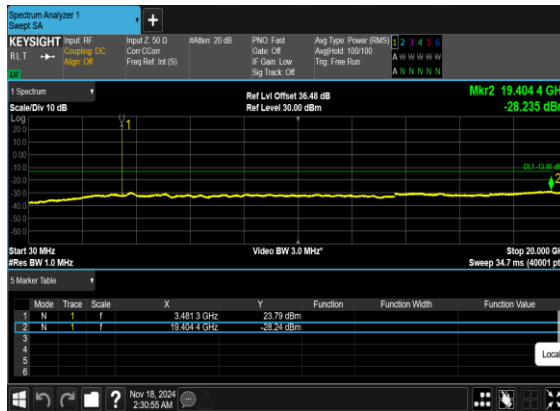
N78(70M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



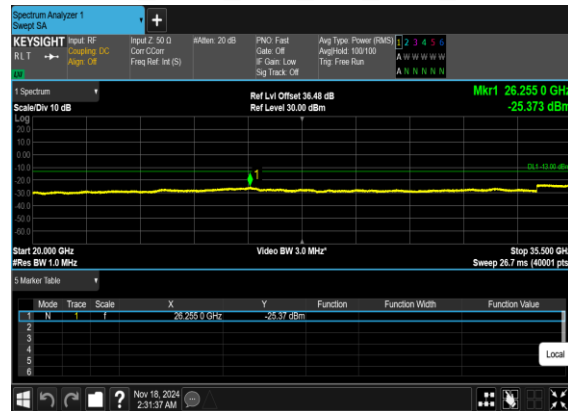
N78(70M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N78(70M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH

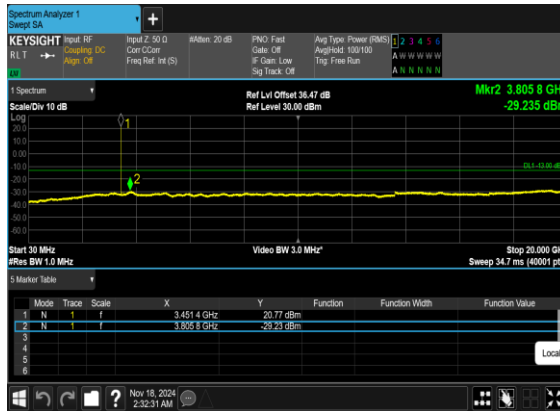


N78(70M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH

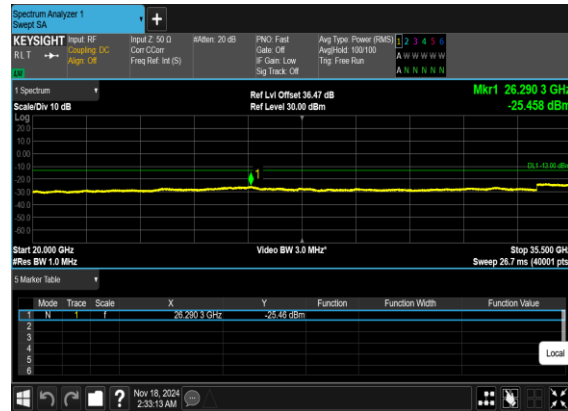




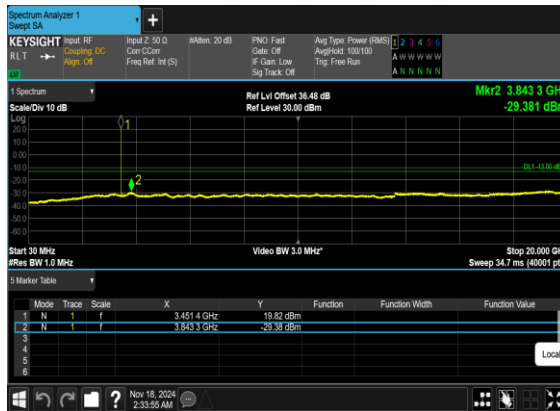
N78(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



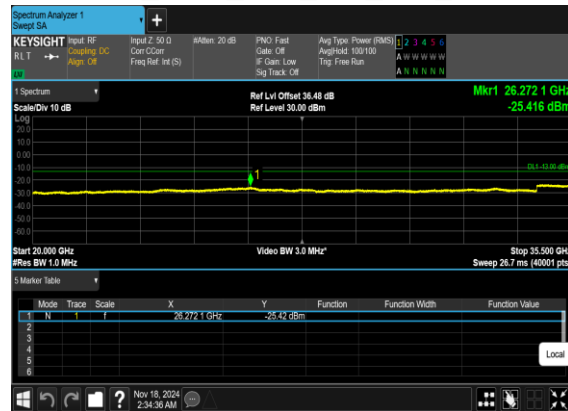
N78(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(90M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

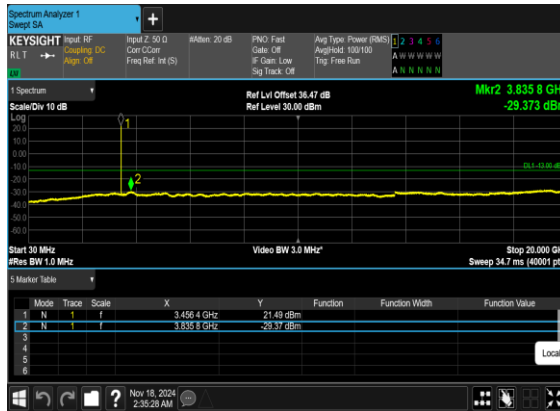


N78(90M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

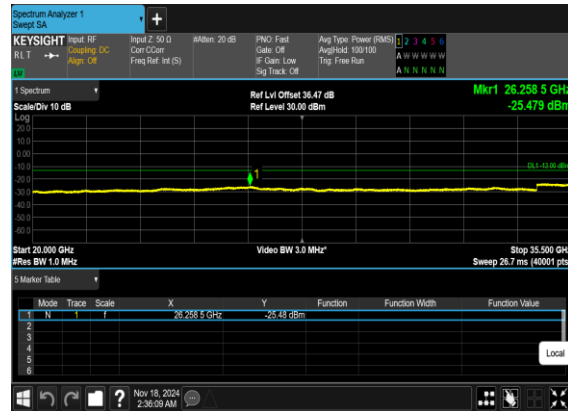




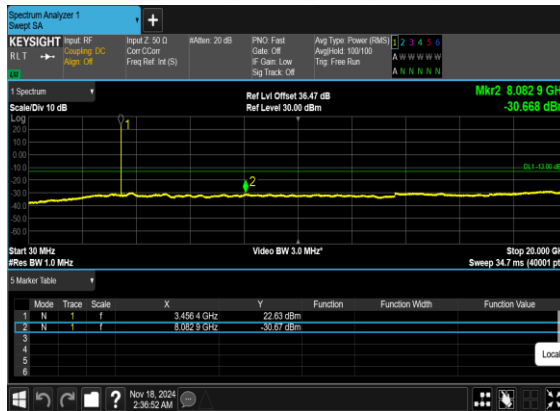
N78(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



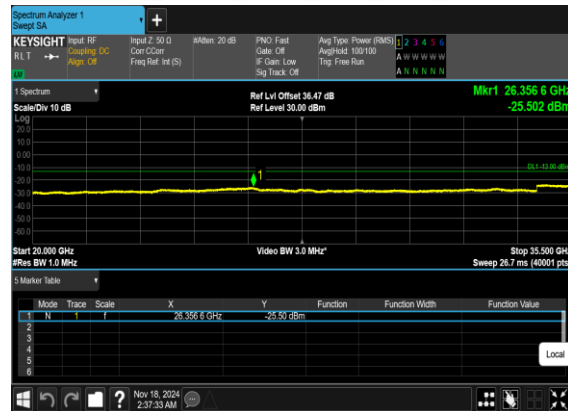
N78(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(90M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

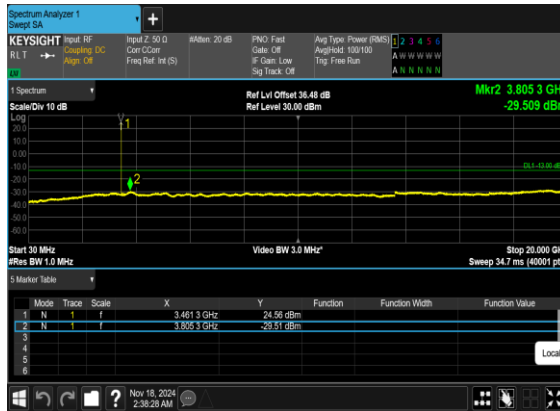


N78(90M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

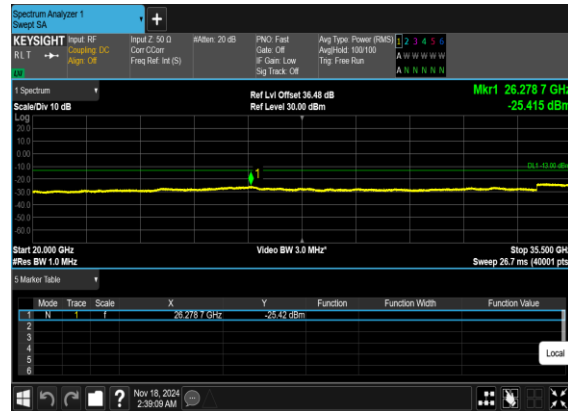




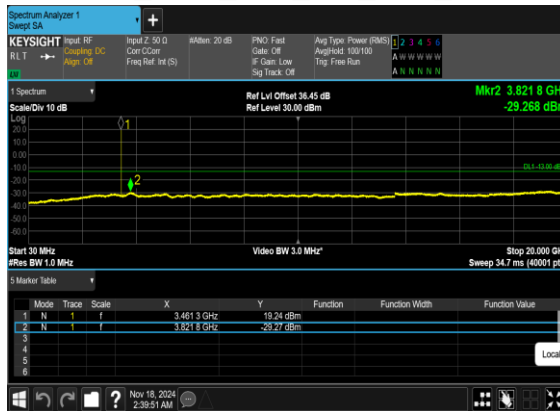
N78(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



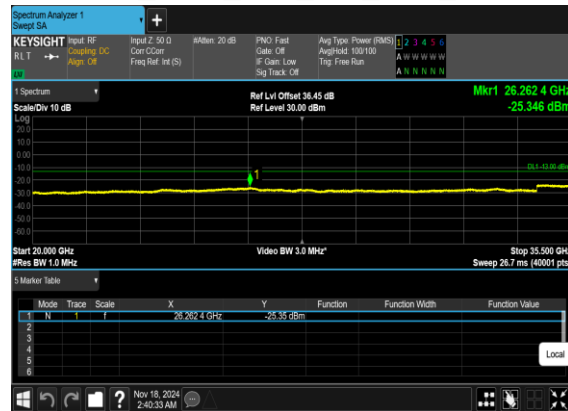
N78(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N78(90M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH



N78(90M)_CP-OFDM_16
QAM_Edge_1RB_Left_High_CH



**Conducted Band Edge**

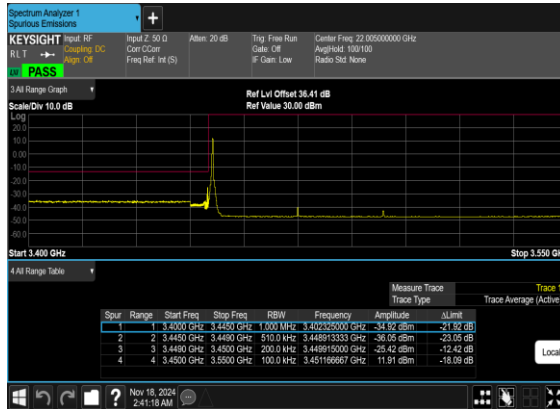
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM QPSK	133@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM 16 QAM	133@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM QPSK	1@132	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@132	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM QPSK	133@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM 16 QAM	133@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM QPSK	189@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM 16 QAM	189@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM QPSK	1@188	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@188	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM QPSK	189@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM 16 QAM	189@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM QPSK	245@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM 16 QAM	245@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM QPSK	1@244	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@244	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM QPSK	245@0	see graph	PASS



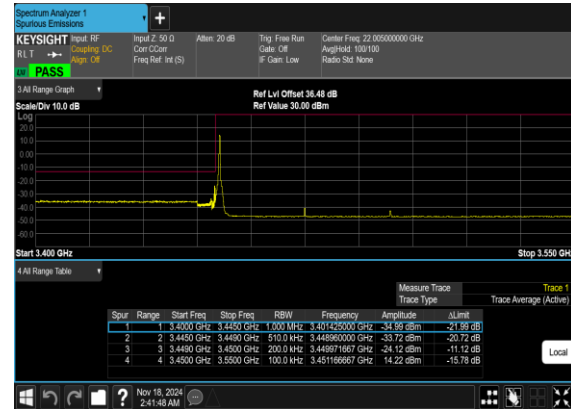
78	30	90	633666	3504.99	CP-OFDM 16 QAM	245@0	see graph	PASS
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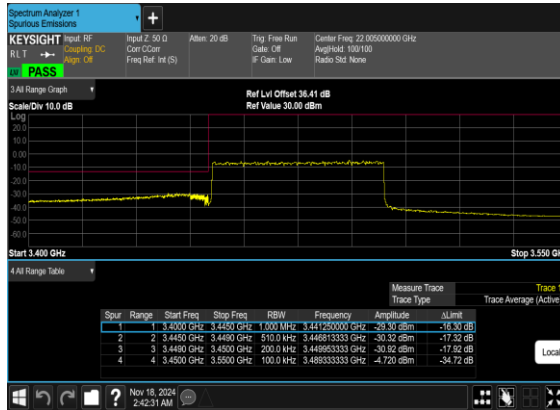
N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



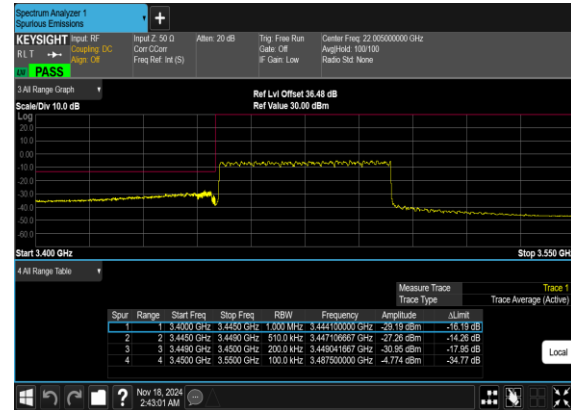
N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH



N78(50M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N78(50M)_CP-OFDM_16
QAM_Outer_Full_Low_CH





N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



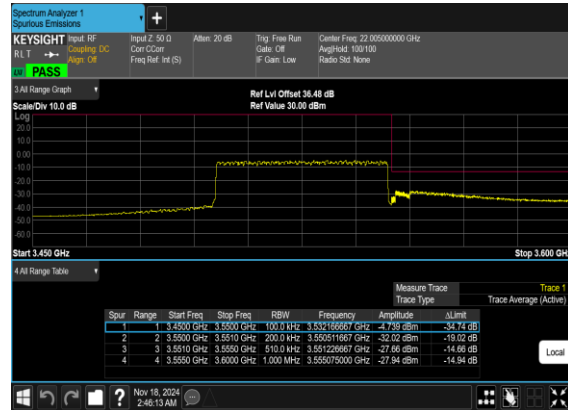
N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Right_High_CH



N78(50M)_CP-
OFDM_QPSK_Outer_Full_High_CH

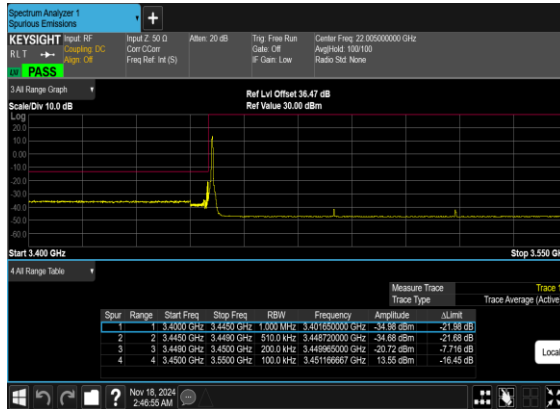


N78(50M)_CP-OFDM_16
QAM_Outer_Full_High_CH

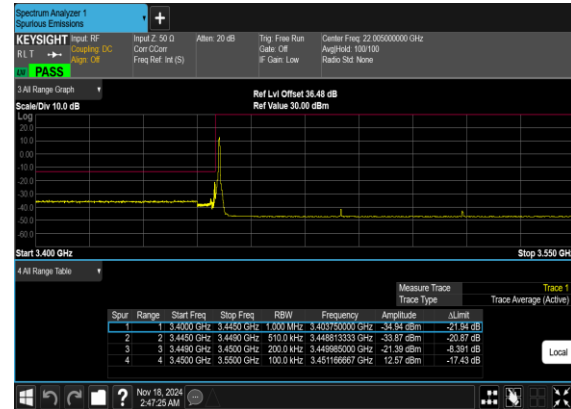




N78(70M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



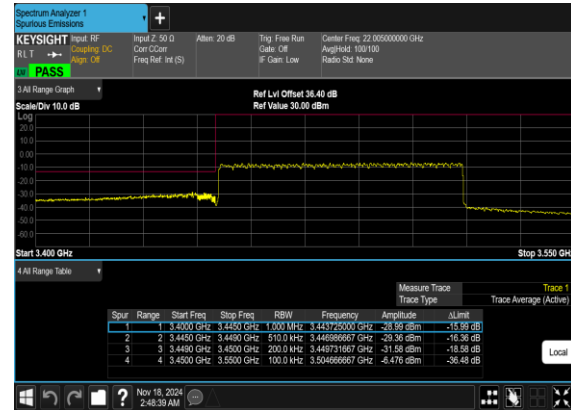
N78(70M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH



N78(70M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N78(70M)_CP-OFDM_16
QAM_Outer_Full_Low_CH





N78(70M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



N78(70M)_CP-OFDM_16
QAM_Edge_1RB_Right_High_CH



N78(70M)_CP-
OFDM_QPSK_Outer_Full_High_CH



N78(70M)_CP-OFDM_16
QAM_Outer_Full_High_CH

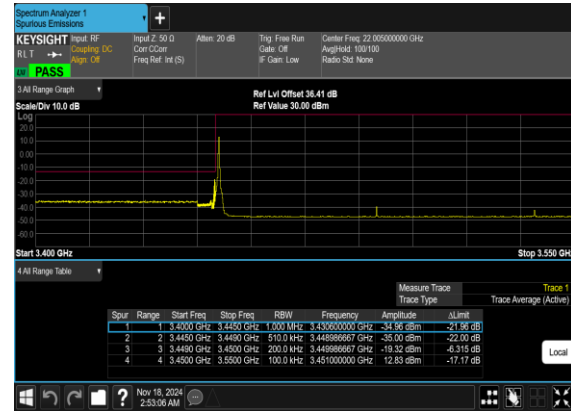




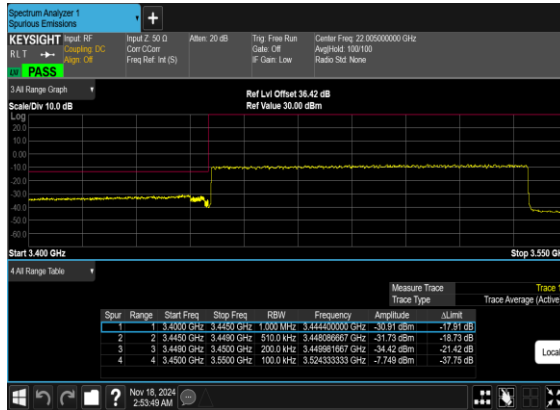
N78(90M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



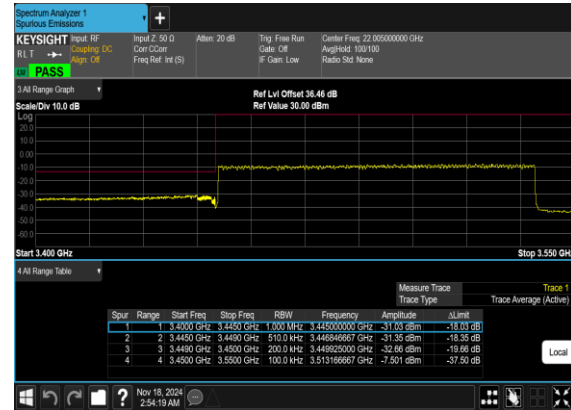
N78(90M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH



N78(90M)_CP-
OFDM_QPSK_Outer_Full_Low_CH

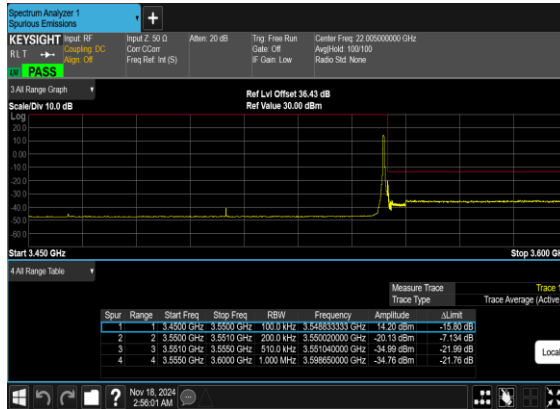


N78(90M)_CP-OFDM_16
QAM_Outer_Full_Low_CH

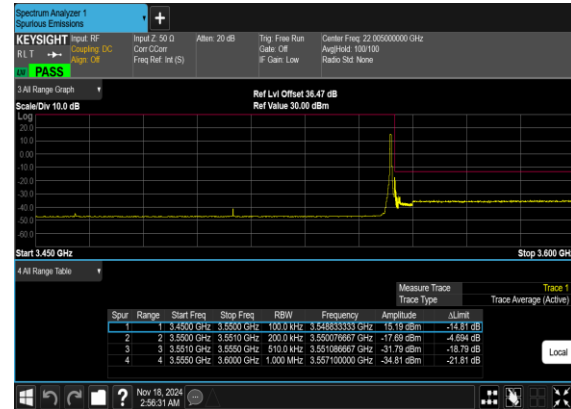




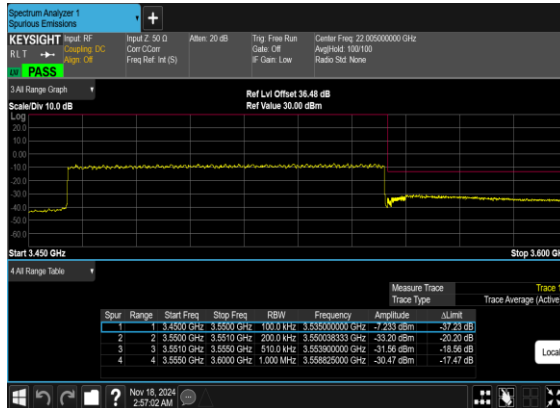
N78(90M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



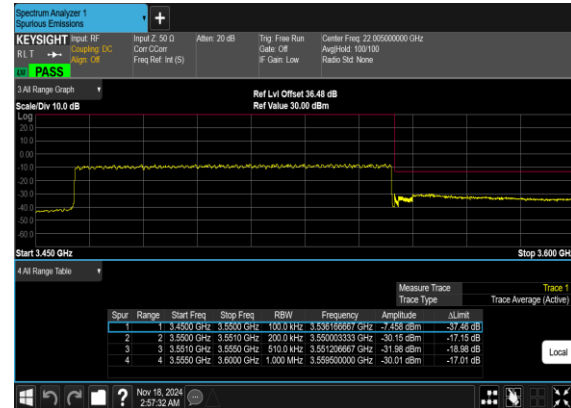
N78(90M)_CP-OFDM_16
QAM_Edge_1RB_Right_High_CH



N78(90M)_CP-
OFDM_QPSK_Outer_Full_High_CH



N78(90M)_CP-OFDM_16
QAM_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N78 MIMO-Ant7

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0052	PASS	NV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0063	PASS	LV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0041	PASS	HV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0055	PASS	-30℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0069	PASS	-20℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0034	PASS	-10℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0048	PASS	0℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0069	PASS	10℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0074	PASS	20℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0063	PASS	30℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0053	PASS	40℃
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0082	PASS	50℃

**Peak to Average Ratio**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	7.12	13	PASS
78	30	20	633334	3500.01	CP-OFDM QPSK	1@0	7.84	13	PASS
78	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	7.31	13	PASS
78	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	8.1	13	PASS



N78(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



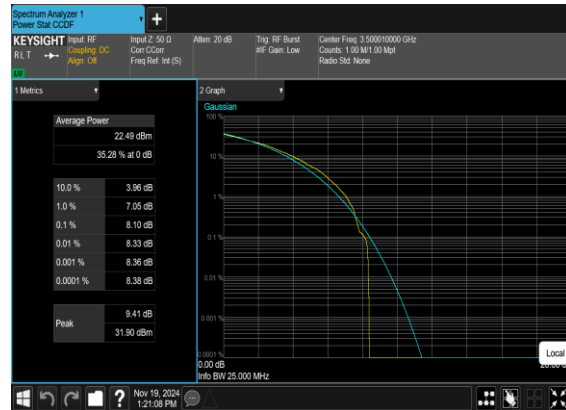
N78(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(20M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

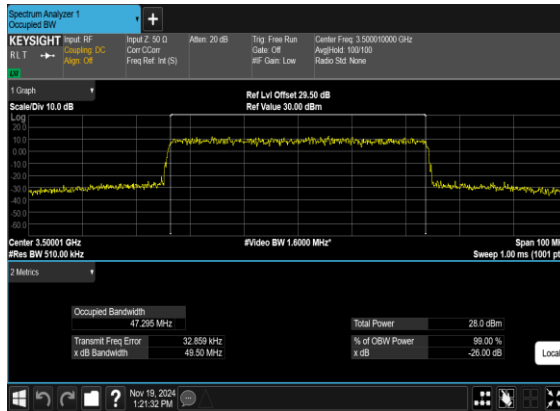


**Occupied Bandwidth**

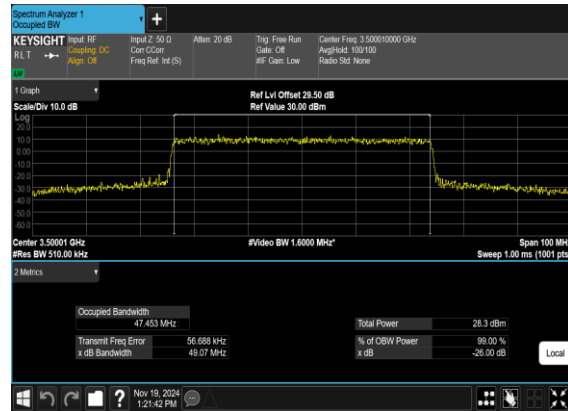
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.295	49.5
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.453	49.07
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.54	49.31
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.374	49.14
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.53	69.66
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.535	69.75
78	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.388	69.84
78	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.617	69.8
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.363	90.43
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.543	90.42
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.388	90.28
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.498	90.22



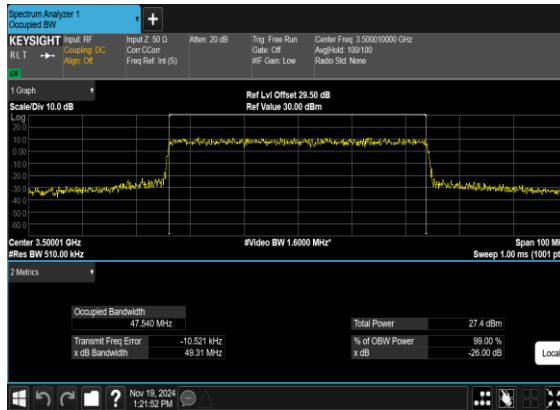
N78(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



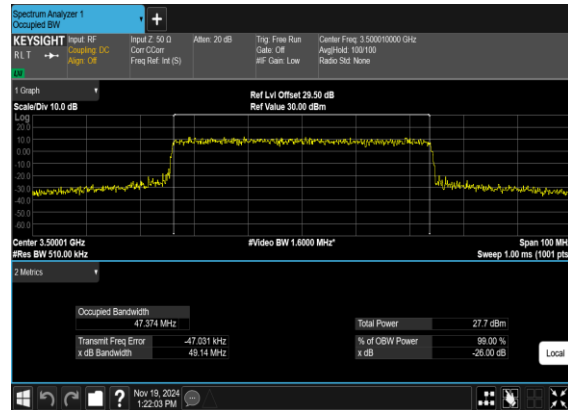
N78(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

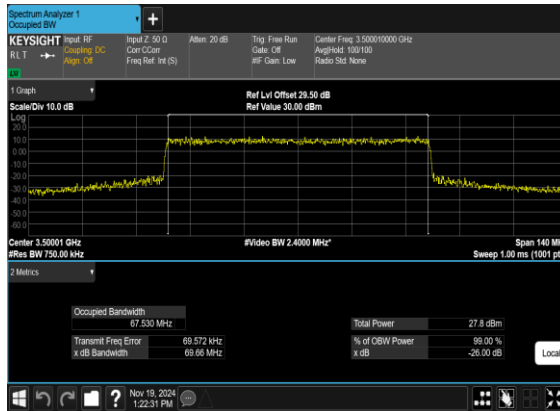


N78(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

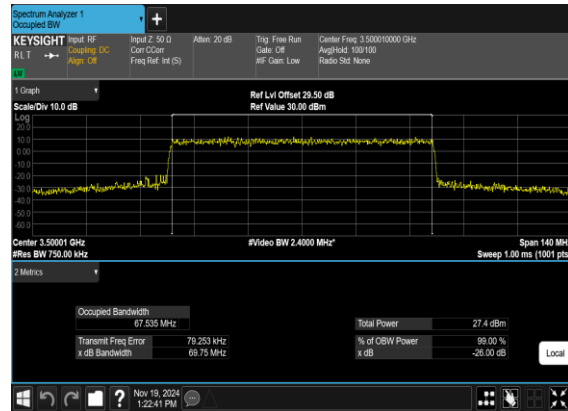




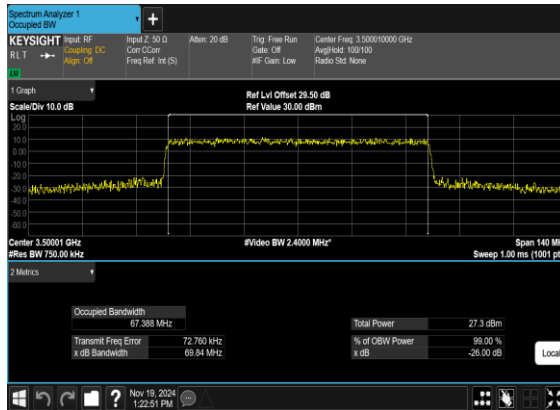
N78(70M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



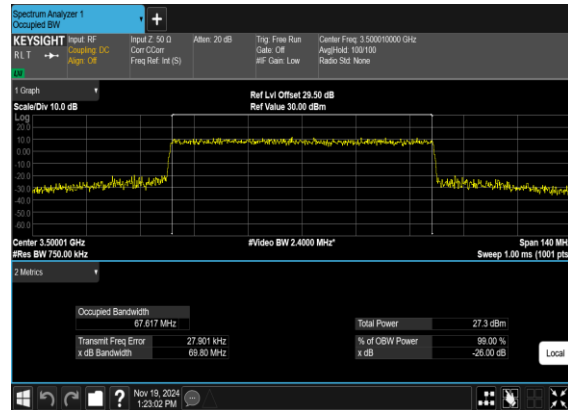
N78(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

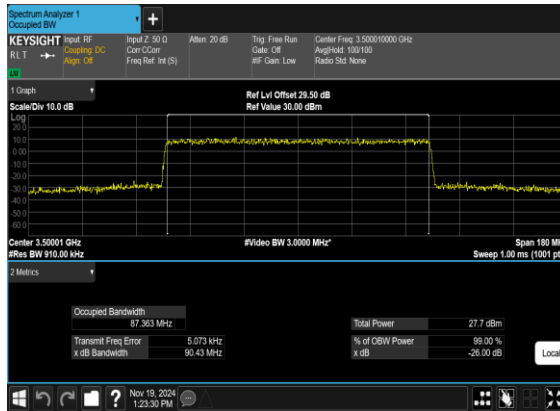


N78(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

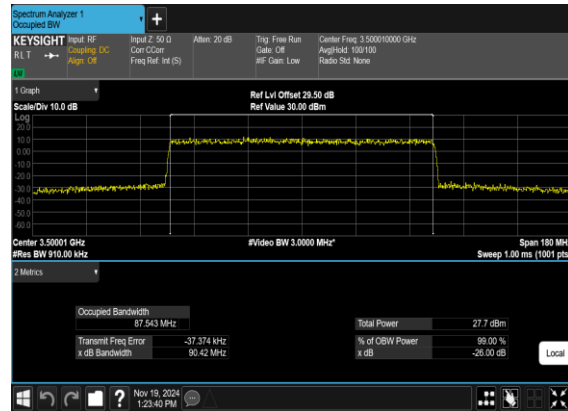




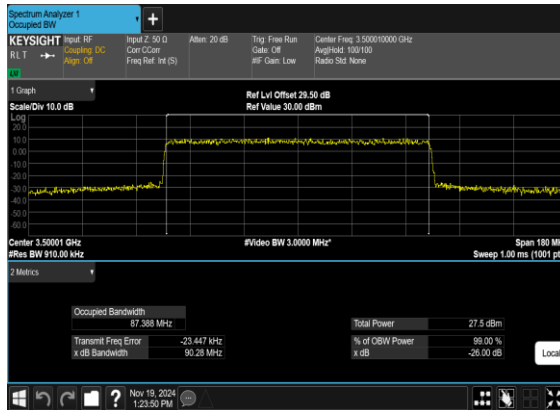
N78(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



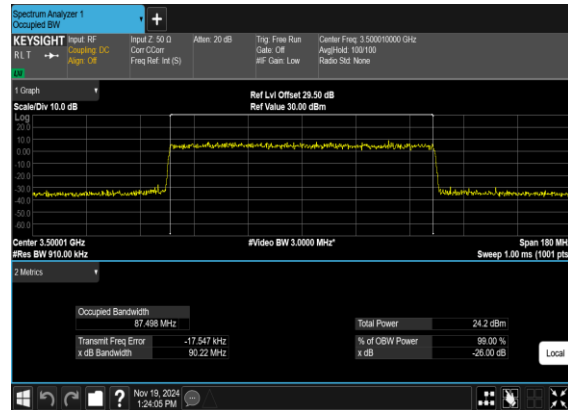
N78(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	---
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	---
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	631668	3475.02	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
78	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	---
78	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@0	see graph	---
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	50	635000	3525.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	---
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM QPSK	1@0	see graph	PASS



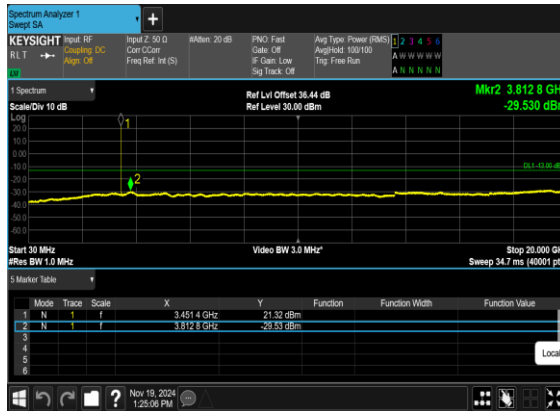
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	632334	3485.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
78	30	70	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM QPSK	1@0	see graph	---
78	30	70	634332	3514.98	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM QPSK	1@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@0	see graph	---
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	70	634332	3514.98	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	---
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	---
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633000	3495.0	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---



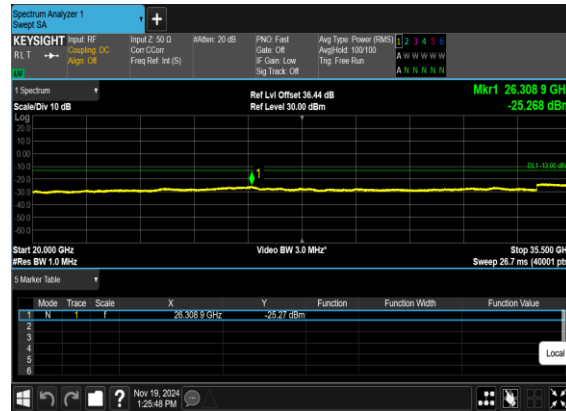
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	---
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633334	3500.01	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	---
78	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM QPSK	1@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@0	see graph	---
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@0	see graph	PASS
78	30	90	633666	3504.99	CP-OFDM 16 QAM	1@0	see graph	PASS



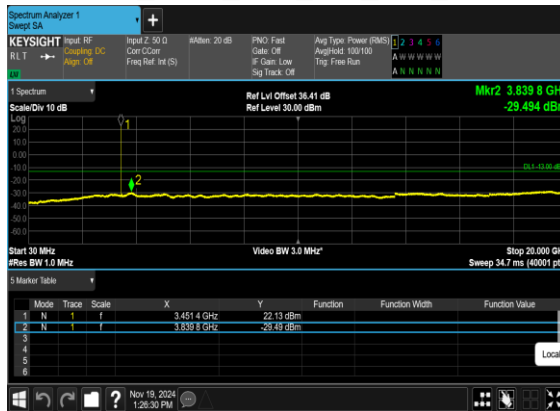
N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



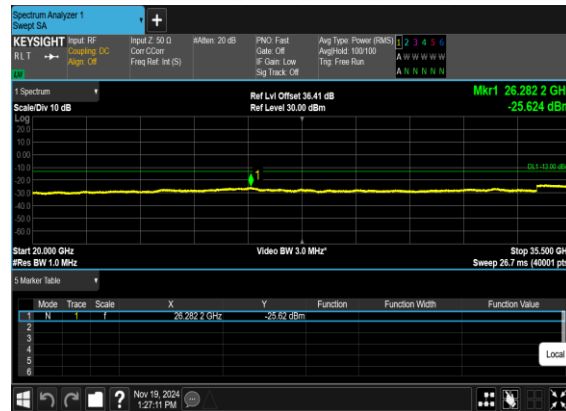
N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

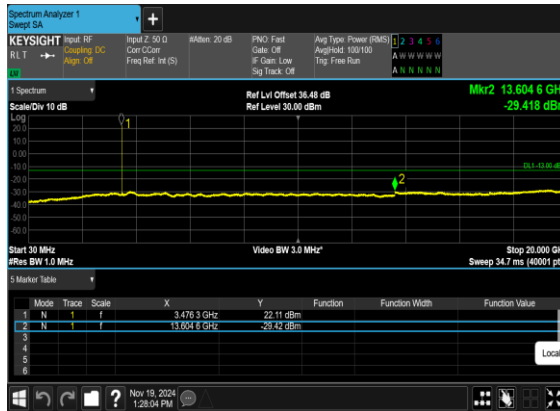


N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Left_Low_CH

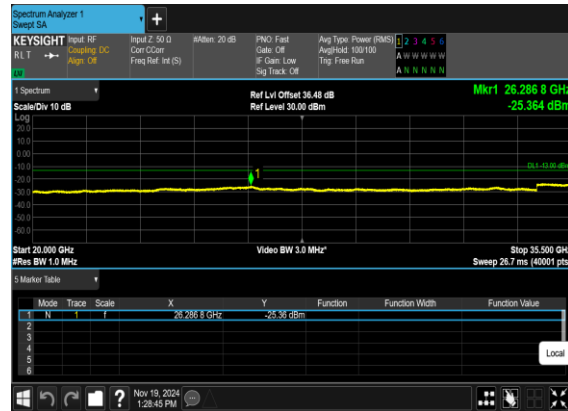




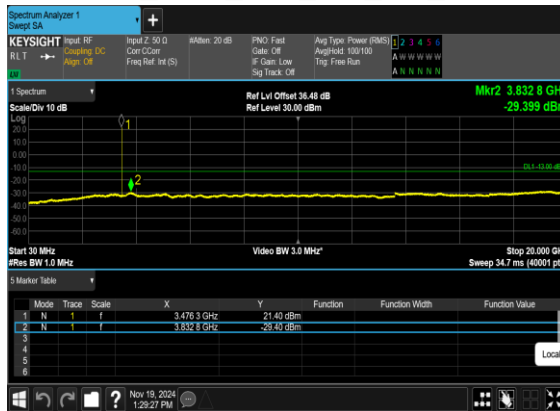
N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH



N78(50M)_CP-OFDM_16
QAM_Edge_1RB_Left_Mid_CH

