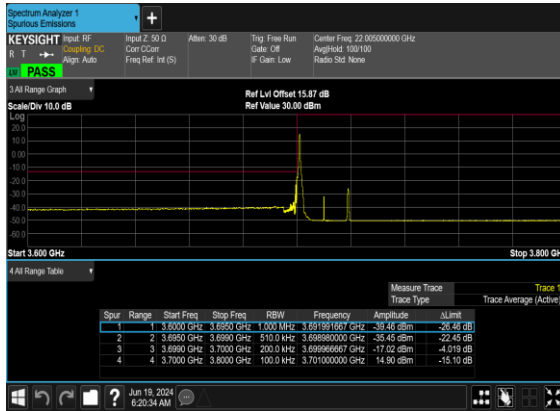
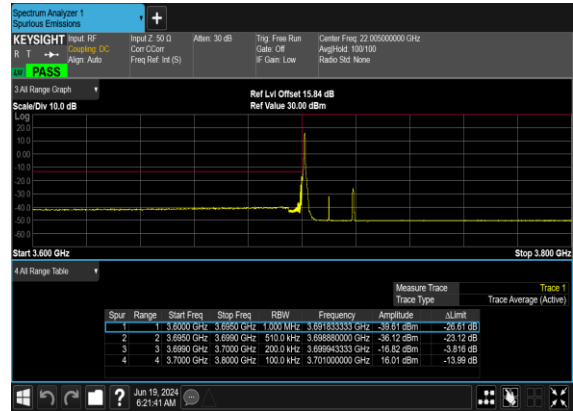




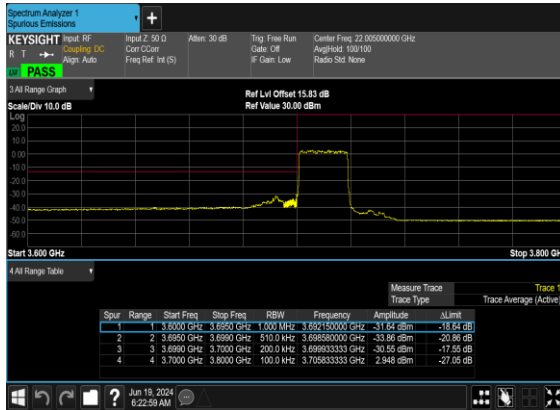
B2_N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



B2_N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

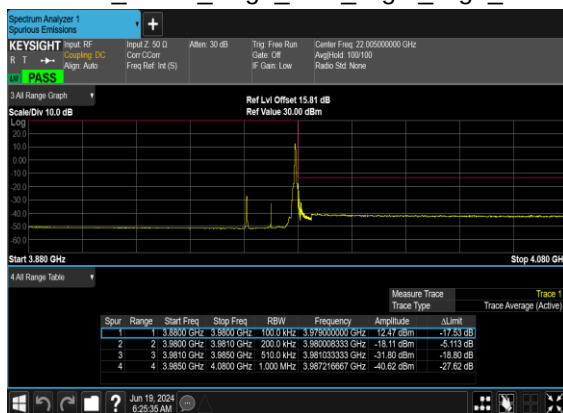


B2_N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

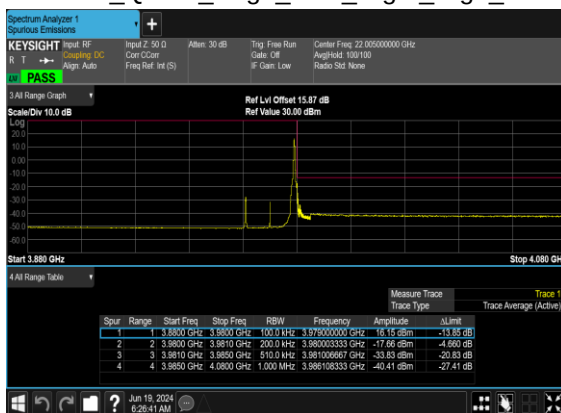




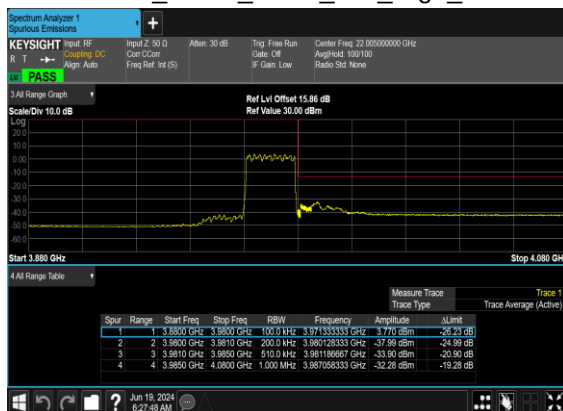
B2_N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



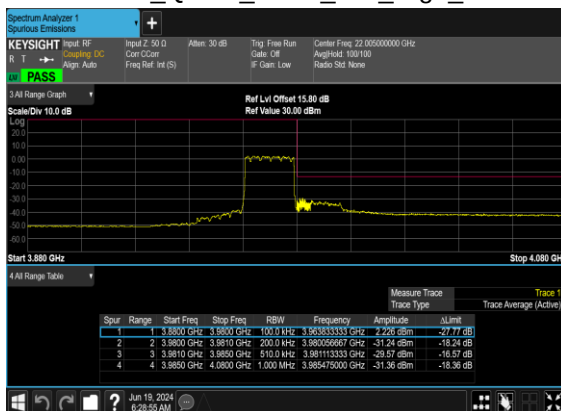
B2_N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



B2_N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

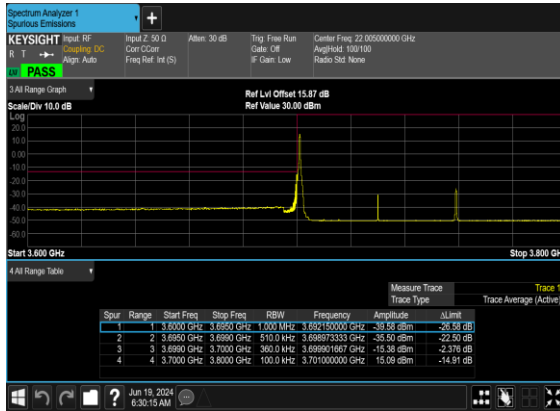


B2_N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





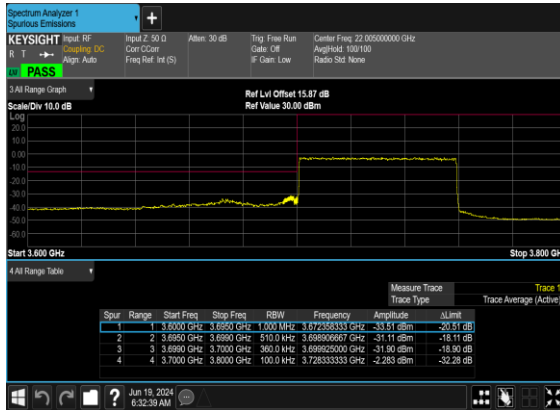
B2_N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



B2_N77(60M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

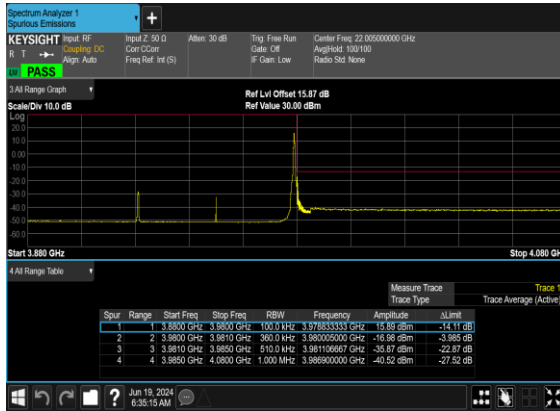


B2_N77(60M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





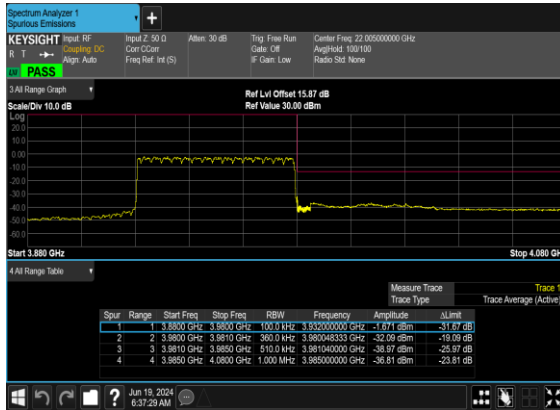
B2_N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



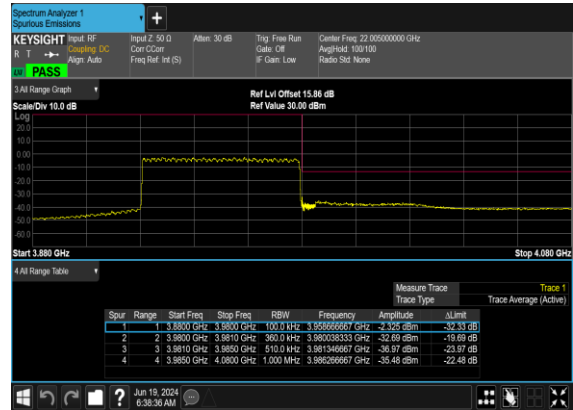
B2_N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



B2_N77(60M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

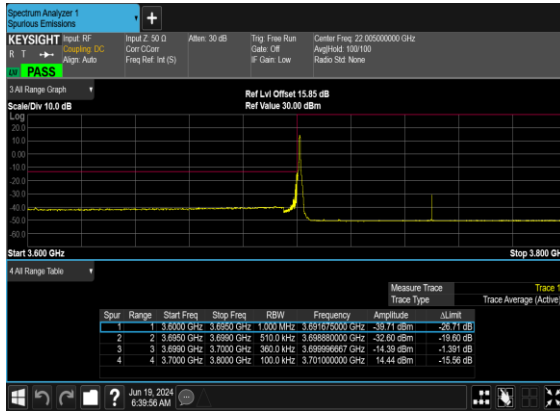


B2_N77(60M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

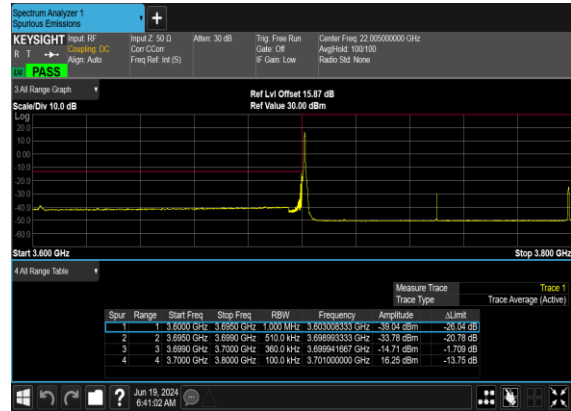




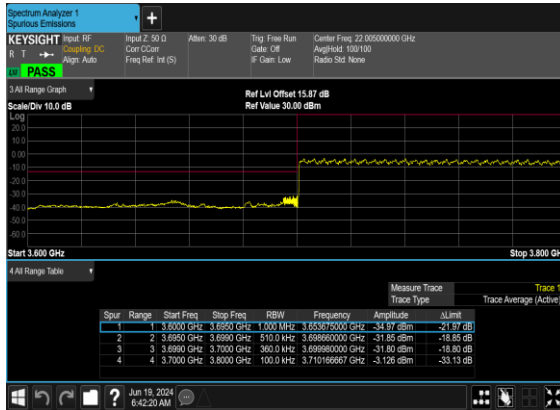
B2_N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



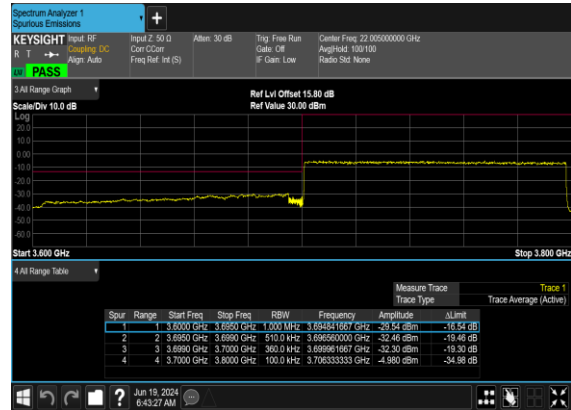
B2_N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



B2_N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

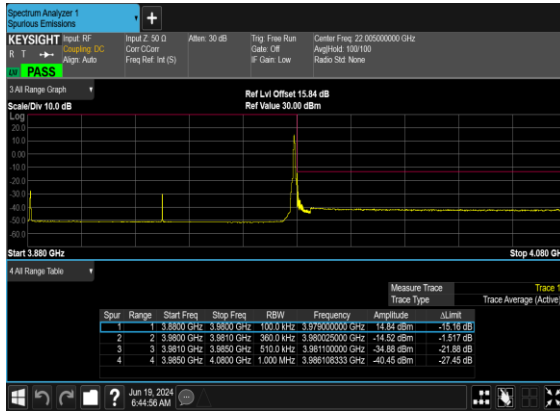


B2_N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





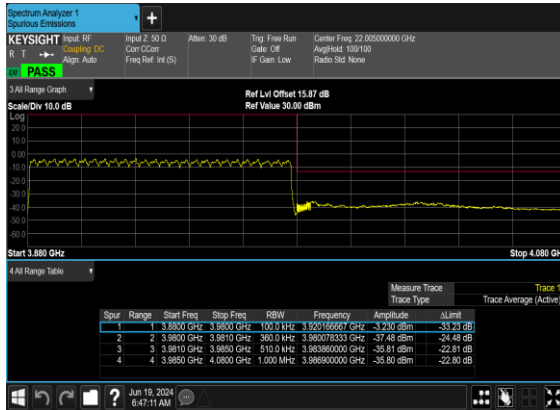
B2_N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



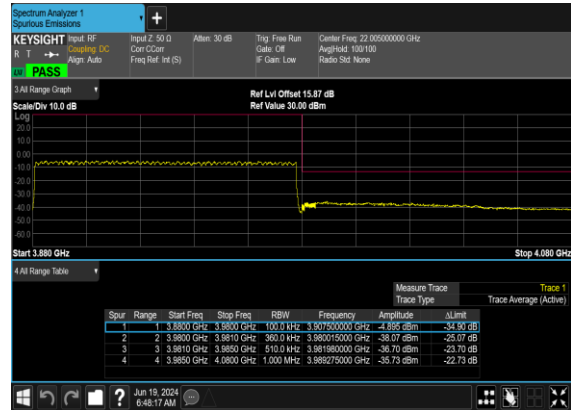
B2_N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



B2_N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



B2_N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N78 SISO (Ant4)

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

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-0.25dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	26	25.75	0.3758
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	25.33	25.08	0.3221
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	25.94	25.69	0.3707
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.24	24.99	0.3155
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	25.96	25.71	0.3724
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	25.17	24.92	0.3105
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.61	25.36	0.3436
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.78	24.53	0.2838
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	25.53	25.28	0.3373
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.84	24.59	0.2877
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	26	25.75	0.3758
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	25.33	25.08	0.3221
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.66	25.41	0.3475
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	24.87	24.62	0.2897
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	25.59	25.34	0.3420
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.8	24.55	0.2851
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	25.55	25.3	0.3388
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	24.88	24.63	0.2904
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.88	25.63	0.3656



78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.04	24.79	0.3013
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	25.83	25.58	0.3614
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.03	24.78	0.3006
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	25.74	25.49	0.3540
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	25.04	24.79	0.3013
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.77	25.52	0.3565
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	24.87	24.62	0.2897
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	25.75	25.5	0.3548
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.99	24.74	0.2979
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	25.71	25.46	0.3516
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	25.01	24.76	0.2992
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.76	25.51	0.3556
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	24.89	24.64	0.2911
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	25.61	25.36	0.3436
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.8	24.55	0.2851
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	25.74	25.49	0.3540
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	24.9	24.65	0.2917
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	25.74	25.49	0.3540
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	24.73	24.48	0.2805
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	25.68	25.43	0.3491
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.94	24.69	0.2944
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	25.63	25.38	0.3451
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	24.71	24.46	0.2793
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.64	25.39	0.3459
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	24.88	24.63	0.2904



78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	25.6	25.35	0.3428
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.78	24.53	0.2838
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	25.68	25.43	0.3491
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	24.76	24.51	0.2825
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	25.6	25.35	0.3428
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.01	25.76	0.3767
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25.65	25.4	0.3467
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.64	25.39	0.3459
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.53	25.28	0.3373
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.59	25.34	0.3420
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	24.72	24.47	0.2799
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.79	24.54	0.2844
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	24.74	24.49	0.2812
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.24	22.99	0.1991
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.27	23.02	0.2004
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	23.23	22.98	0.1986
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.21	20.96	0.1247
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	20.94	20.69	0.1172
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	20.9	20.65	0.1161
78	30	100	650000	3750	CP-OFDM QPSK	137@68	24.23	23.98	0.2500
78	30	100	650000	3750	CP-OFDM QPSK	1@1	24.13	23.88	0.2443
78	30	100	650000	3750	CP-OFDM QPSK	1@271	24.07	23.82	0.2410



Software Version: 23.06.1602

FR1 N77 UL MIMO(Ant4+6)

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=0.74dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT4 Power(dBm)	ANT6 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	20	647334	3710.01	CP-OFDM QPSK	1@1	21.14	21.46	24.31	25.05	0.3199
77	30	20	647334	3710.01	CP-OFDM 16 QAM	1@1	20.72	20.81	23.78	24.52	0.2831
77	30	20	656000	3840	CP-OFDM QPSK	1@1	21.11	20.93	24.03	24.77	0.2999
77	30	20	656000	3840	CP-OFDM 16 QAM	1@1	20.73	20.27	23.52	24.26	0.2667
77	30	20	664666	3969.99	CP-OFDM QPSK	1@1	21.42	21.88	24.67	25.41	0.3475
77	30	20	664666	3969.99	CP-OFDM 16 QAM	1@1	20.96	21.5	24.25	24.99	0.3155
77	30	30	647668	3715.02	CP-OFDM QPSK	1@1	21.3	21.68	24.50	25.24	0.3342
77	30	30	647668	3715.02	CP-OFDM 16 QAM	1@1	20.81	20.93	23.88	24.62	0.2897
77	30	30	656000	3840	CP-OFDM QPSK	1@1	21.17	20.99	24.09	24.83	0.3041
77	30	30	656000	3840	CP-OFDM 16 QAM	1@1	20.77	20.34	23.57	24.31	0.2698
77	30	30	664332	3964.98	CP-OFDM QPSK	1@1	21.32	21.93	24.65	25.39	0.3459
77	30	30	664332	3964.98	CP-OFDM 16 QAM	1@1	20.93	21.32	24.14	24.88	0.3076
77	30	40	648000	3720	CP-OFDM QPSK	1@1	21.43	21.69	24.57	25.31	0.3396
77	30	40	648000	3720	CP-OFDM 16 QAM	1@1	21	21.07	24.05	24.79	0.3013
77	30	40	656000	3840	CP-OFDM QPSK	1@1	21.37	21.17	24.28	25.02	0.3177
77	30	40	656000	3840	CP-OFDM 16 QAM	1@1	20.89	20.43	23.68	24.42	0.2767
77	30	40	664000	3960	CP-OFDM QPSK	1@1	21.42	21.88	24.67	25.41	0.3475
77	30	40	664000	3960	CP-OFDM 16 QAM	1@1	21.03	21.38	24.22	24.96	0.3133
77	30	50	648334	3725.01	CP-OFDM QPSK	1@1	21.07	21.41	24.25	24.99	0.3155
77	30	50	648334	3725.01	CP-OFDM 16 QAM	1@1	20.8	20.7	23.76	24.5	0.2818
77	30	50	656000	3840	CP-OFDM QPSK	1@1	21.1	20.77	23.95	24.69	0.2944
77	30	50	656000	3840	CP-OFDM 16 QAM	1@1	20.77	20.14	23.48	24.22	0.2642
77	30	50	663666	3954.99	CP-OFDM QPSK	1@1	21.23	21.77	24.52	25.26	0.3357
77	30	50	663666	3954.99	CP-OFDM 16 QAM	1@1	20.64	21.11	23.89	24.63	0.2904
77	30	60	648668	3730.02	CP-OFDM QPSK	1@1	21.04	21.35	24.21	24.95	0.3126
77	30	60	648668	3730.02	CP-OFDM 16 QAM	1@1	20.69	20.63	23.67	24.41	0.2761
77	30	60	656000	3840	CP-OFDM QPSK	1@1	21.14	20.81	23.99	24.73	0.2972



77	30	60	656000	3840	CP-OFDM 16 QAM	1@1	20.5	20.1	23.31	24.05	0.2541
77	30	60	663332	3949.98	CP-OFDM QPSK	1@1	20.91	21.82	24.40	25.14	0.3266
77	30	60	663332	3949.98	CP-OFDM 16 QAM	1@1	20.49	21.02	23.77	24.51	0.2825
77	30	70	649000	3735	CP-OFDM QPSK	1@1	21	21.29	24.16	24.9	0.3090
77	30	70	649000	3735	CP-OFDM 16 QAM	1@1	20.49	20.55	23.53	24.27	0.2673
77	30	70	656000	3840	CP-OFDM QPSK	1@1	20.96	20.77	23.88	24.62	0.2897
77	30	70	656000	3840	CP-OFDM 16 QAM	1@1	20.47	20.07	23.28	24.02	0.2523
77	30	70	663000	3945	CP-OFDM QPSK	1@1	20.9	21.72	24.34	25.08	0.3221
77	30	70	663000	3945	CP-OFDM 16 QAM	1@1	20.5	21.08	23.81	24.55	0.2851
77	30	80	649334	3740.01	CP-OFDM QPSK	1@1	20.85	21.28	24.08	24.82	0.3034
77	30	80	649334	3740.01	CP-OFDM 16 QAM	1@1	20.49	20.61	23.56	24.3	0.2692
77	30	80	656000	3840	CP-OFDM QPSK	1@1	20.83	20.78	23.82	24.56	0.2858
77	30	80	656000	3840	CP-OFDM 16 QAM	1@1	20.55	20.05	23.32	24.06	0.2547
77	30	80	662666	3939.99	CP-OFDM QPSK	1@1	20.83	21.49	24.18	24.92	0.3105
77	30	80	662666	3939.99	CP-OFDM 16 QAM	1@1	20.38	20.85	23.63	24.37	0.2735
77	30	90	649668	3745.02	CP-OFDM QPSK	1@1	20.93	21.3	24.13	24.87	0.3069
77	30	90	649668	3745.02	CP-OFDM 16 QAM	1@1	20.32	20.55	23.45	24.19	0.2624
77	30	90	656000	3840	CP-OFDM QPSK	1@1	20.94	20.9	23.93	24.67	0.2931
77	30	90	656000	3840	CP-OFDM 16 QAM	1@1	20.6	20.16	23.40	24.14	0.2594
77	30	90	662332	3934.98	CP-OFDM QPSK	1@1	20.73	21.07	23.91	24.65	0.2917
77	30	90	662332	3934.98	CP-OFDM 16 QAM	1@1	20.36	20.43	23.41	24.15	0.2600
77	30	100	650000	3750	CP-OFDM QPSK	137@68	21.41	21.71	24.57	25.31	0.3396
77	30	100	650000	3750	CP-OFDM QPSK	1@1	21.37	21.71	24.55	25.29	0.3381
77	30	100	650000	3750	CP-OFDM QPSK	1@271	21.33	21.16	24.26	25	0.3162
77	30	100	650000	3750	CP-OFDM 16 QAM	137@68	20.94	21.22	24.09	24.83	0.3041
77	30	100	650000	3750	CP-OFDM 16 QAM	1@1	20.91	21.06	24.00	24.74	0.2979
77	30	100	650000	3750	CP-OFDM 16 QAM	1@271	20.94	20.5	23.74	24.48	0.2805
77	30	100	650000	3750	CP-OFDM 64 QAM	137@68	19.42	19.73	22.59	23.33	0.2153
77	30	100	650000	3750	CP-OFDM 64 QAM	1@1	19.38	19.66	22.53	23.27	0.2123
77	30	100	650000	3750	CP-OFDM 64 QAM	1@271	19.28	19.11	22.21	22.95	0.1972
77	30	100	650000	3750	CP-OFDM 256 QAM	137@68	16.43	16.73	19.59	20.33	0.1079
77	30	100	650000	3750	CP-OFDM 256 QAM	1@1	16.18	16.76	19.49	20.23	0.1054
77	30	100	650000	3750	CP-OFDM 256 QAM	1@271	16.1	16.15	19.14	19.88	0.0973



77	30	100	656000	3840	CP-OFDM QPSK	137@68	21.15	21.01	24.09	24.83	0.3041
77	30	100	656000	3840	CP-OFDM QPSK	1@1	21.43	21.41	24.43	25.17	0.3289
77	30	100	656000	3840	CP-OFDM QPSK	1@271	20.93	21.24	24.10	24.84	0.3048
77	30	100	656000	3840	CP-OFDM 16 QAM	137@68	20.7	20.57	23.65	24.39	0.2748
77	30	100	656000	3840	CP-OFDM 16 QAM	1@1	21.03	20.69	23.87	24.61	0.2891
77	30	100	656000	3840	CP-OFDM 16 QAM	1@271	20.5	20.47	23.50	24.24	0.2655
77	30	100	656000	3840	CP-OFDM 64 QAM	137@68	19.18	19.03	22.12	22.86	0.1932
77	30	100	656000	3840	CP-OFDM 64 QAM	1@1	19.41	19.41	22.42	23.16	0.2070
77	30	100	656000	3840	CP-OFDM 64 QAM	1@271	18.82	19.21	22.03	22.77	0.1892
77	30	100	656000	3840	CP-OFDM 256 QAM	137@68	16.19	16.05	19.13	19.87	0.0971
77	30	100	656000	3840	CP-OFDM 256 QAM	1@1	16.34	16.49	19.43	20.17	0.1040
77	30	100	656000	3840	CP-OFDM 256 QAM	1@271	15.68	16.17	18.94	19.68	0.0929
77	30	100	662000	3930	CP-OFDM QPSK	137@68	21.38	21.94	24.68	25.42	0.3483
77	30	100	662000	3930	CP-OFDM QPSK	1@1	21.22	21.31	24.28	25.02	0.3177
77	30	100	662000	3930	CP-OFDM QPSK	1@271	21.31	22.03	24.70	25.44	0.3499
77	30	100	662000	3930	CP-OFDM 16 QAM	137@68	20.96	21.5	24.25	24.99	0.3155
77	30	100	662000	3930	CP-OFDM 16 QAM	1@1	20.9	20.68	23.80	24.54	0.2844
77	30	100	662000	3930	CP-OFDM 16 QAM	1@271	20.88	21.36	24.14	24.88	0.3076
77	30	100	662000	3930	CP-OFDM 64 QAM	137@68	19.44	20.02	22.75	23.49	0.2234
77	30	100	662000	3930	CP-OFDM 64 QAM	1@1	19.27	19.33	22.31	23.05	0.2018
77	30	100	662000	3930	CP-OFDM 64 QAM	1@271	19.38	19.94	22.68	23.42	0.2198
77	30	100	662000	3930	CP-OFDM 256 QAM	137@68	16.36	17	19.70	20.44	0.1107
77	30	100	662000	3930	CP-OFDM 256 QAM	1@1	16.13	16.35	19.25	19.99	0.0998
77	30	100	662000	3930	CP-OFDM 256 QAM	1@271	16.1	16.86	19.51	20.25	0.1059



FR1 N77 UL MIMO (Ant4)

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0045	PASS	NV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0064	PASS	LV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0028	PASS	HV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0031	PASS	-30℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0052	PASS	-20℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0059	PASS	-10℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0064	PASS	0℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0050	PASS	10℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0045	PASS	20℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0045	PASS	30℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0065	PASS	40℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0037	PASS	50℃



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	7.25	13	PASS

N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

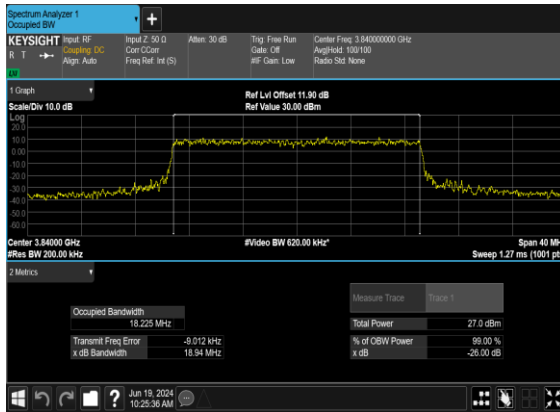
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.225	18.94
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.162	19.03
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.2	19.33
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.15	19.1
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.853	29.02
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.764	28.94
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.842	29.04
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.799	29.01
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.777	39.26
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.777	39.24
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.818	39.27
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.807	39.2
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.382	49.21
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.464	48.96
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.382	49.02
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.525	49.39
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.912	60.03
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.761	59.74
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.804	59.68
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.689	59.67
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.484	69.71
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.524	69.75
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.453	69.75



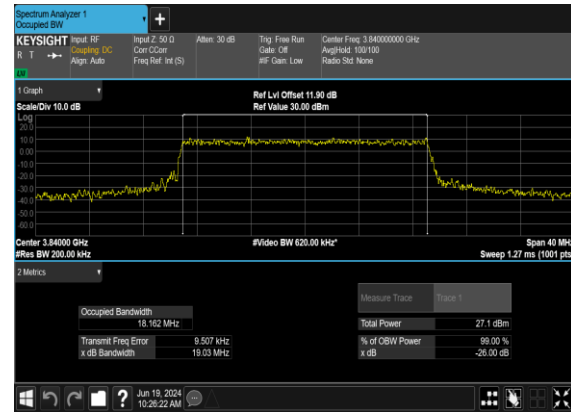
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.562	69.6
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.33	79.88
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.409	79.95
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.545	79.91
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.636	79.92
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.501	90.27
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.437	90.11
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.481	90.27
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.789	90.36
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.619	100.4
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.447	100.6
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.346	100.6
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.491	100.5



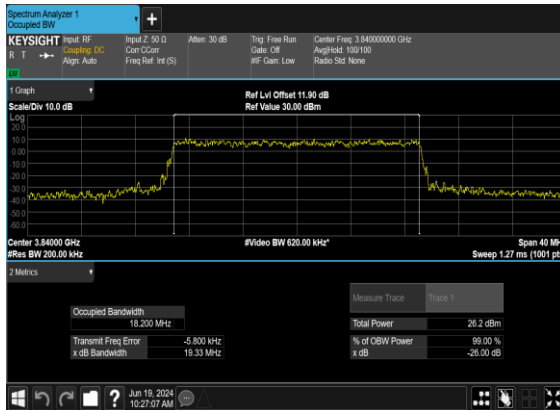
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



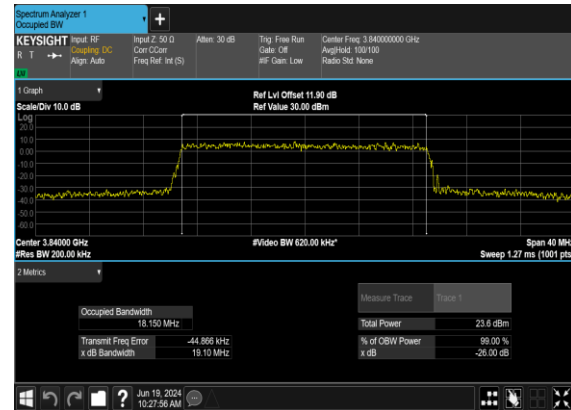
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QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

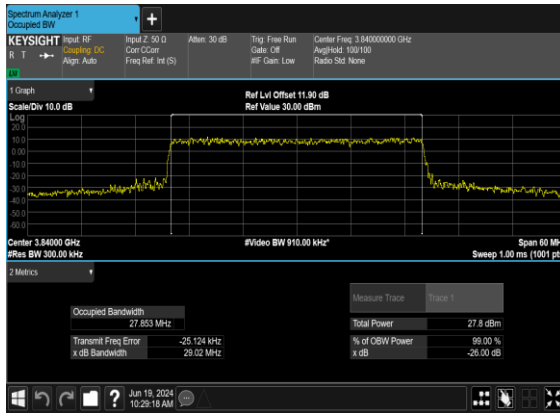


N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

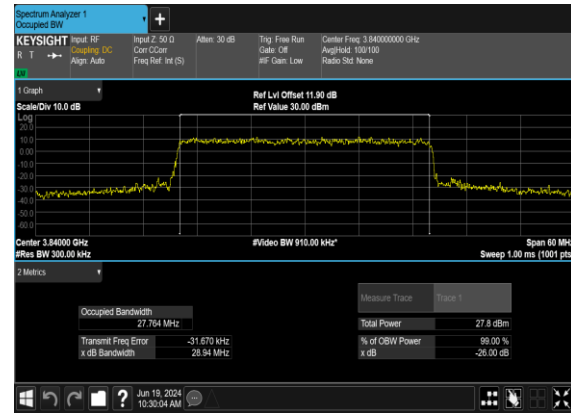




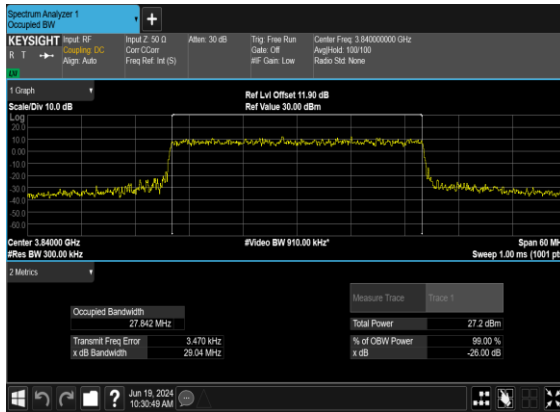
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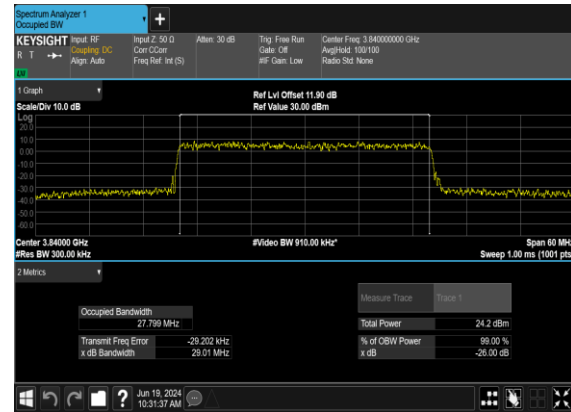
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QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

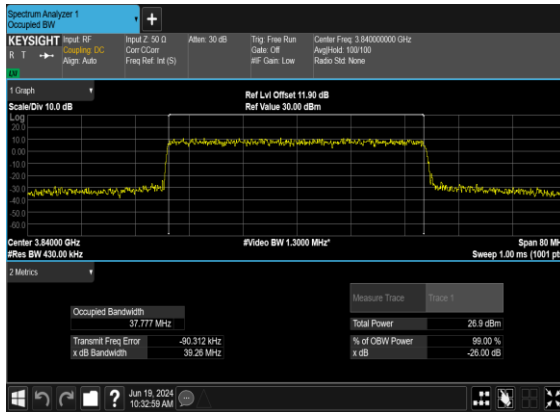


N77(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

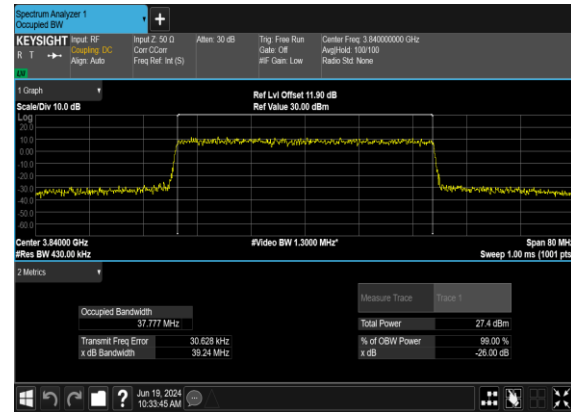




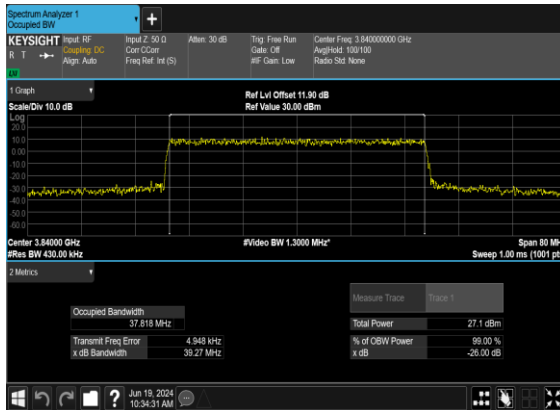
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OFDM_QPSK_Outer_Full_Mid_CH



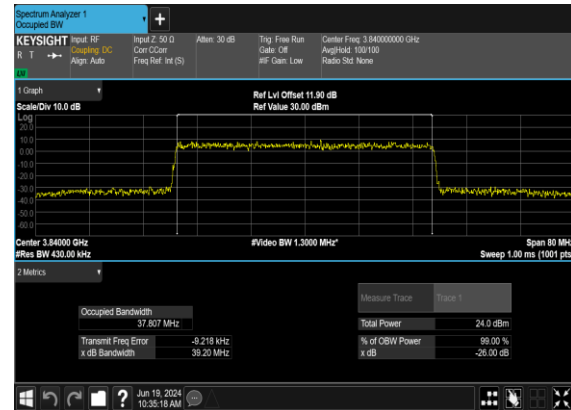
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QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

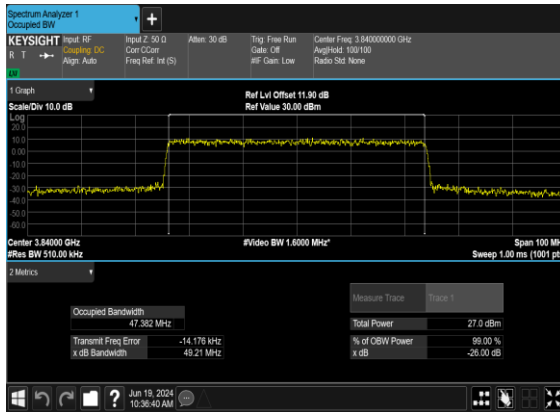


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QAM_Outer_Full_Mid_CH

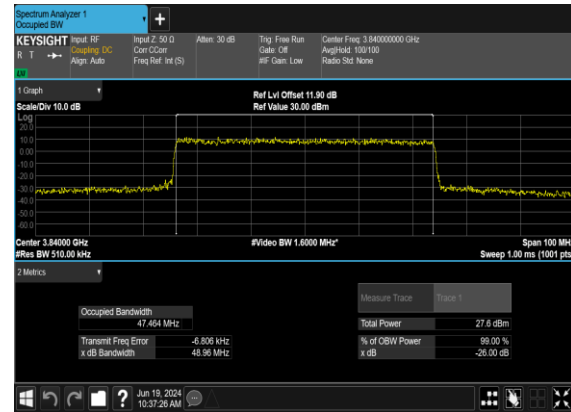




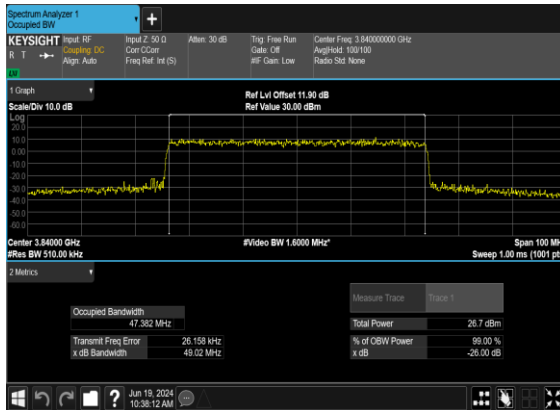
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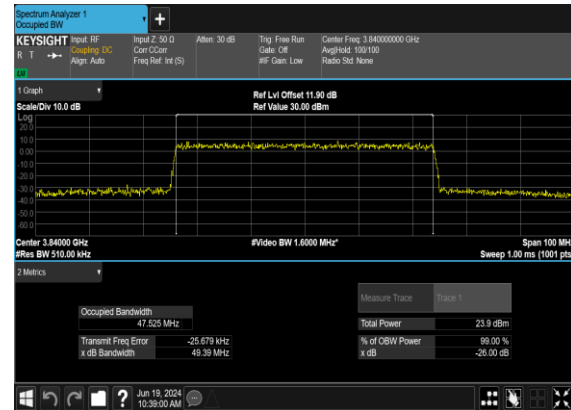
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QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

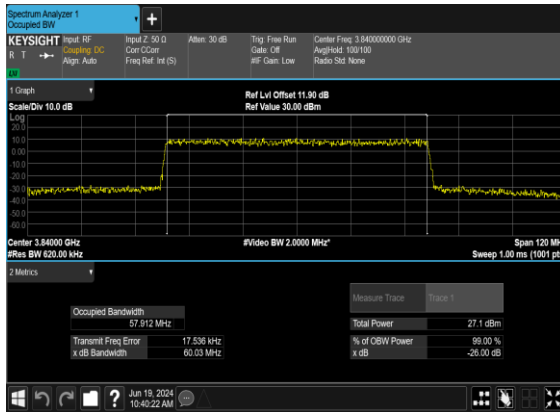


N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

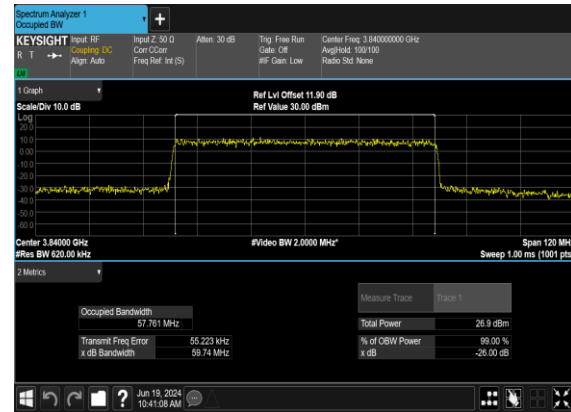




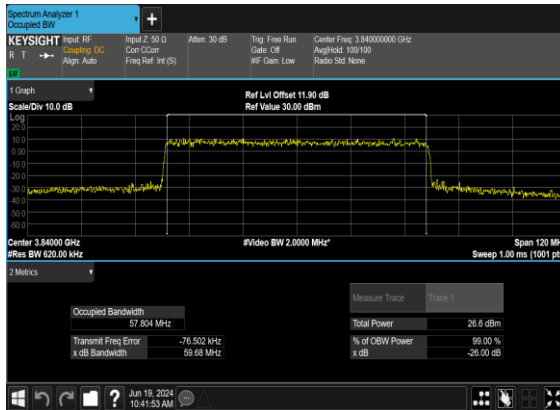
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OFDM_QPSK_Outer_Full_Mid_CH



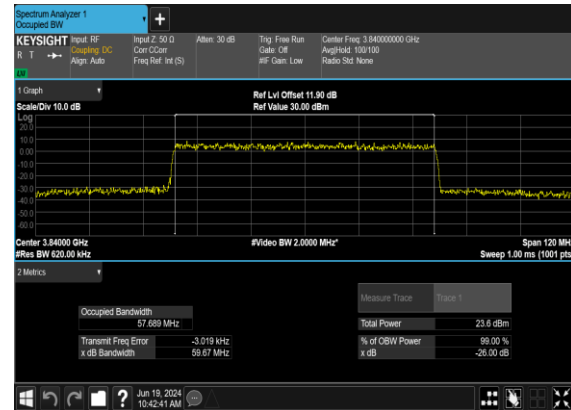
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QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

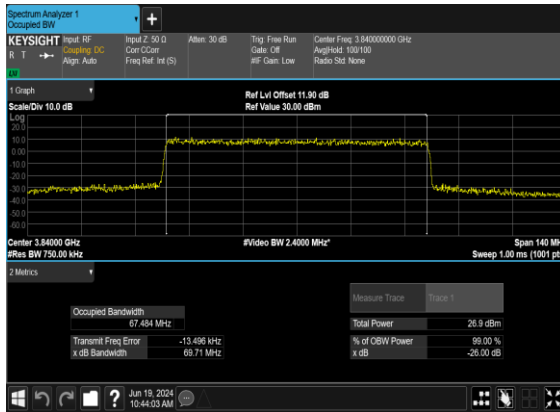


N77(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

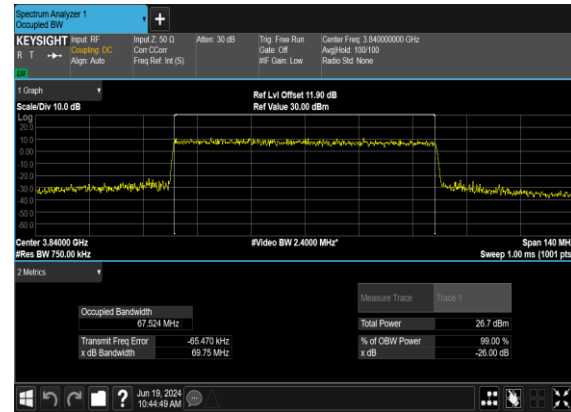




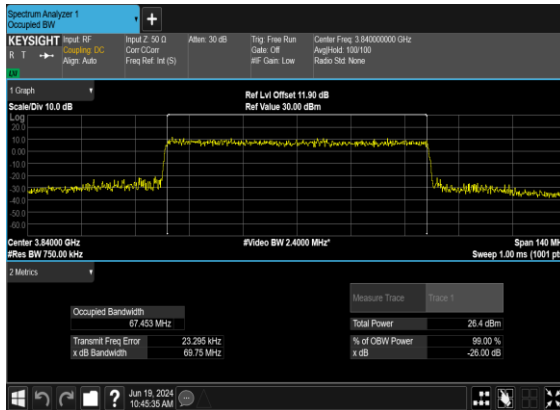
N77(70M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



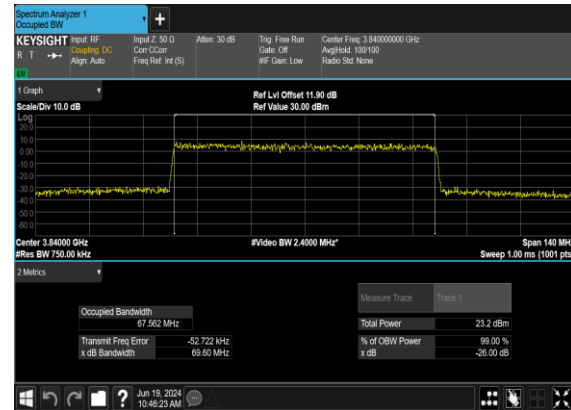
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QAM_Outer_Full_Mid_CH



N77(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

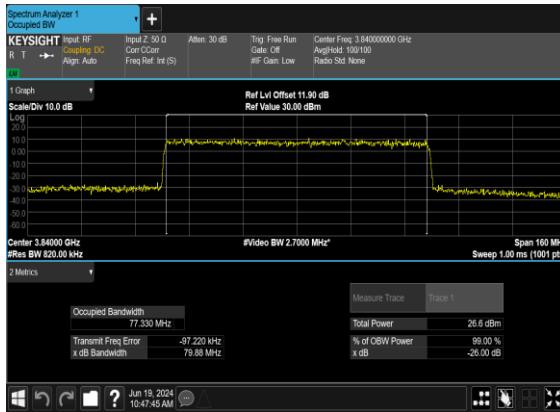


N77(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

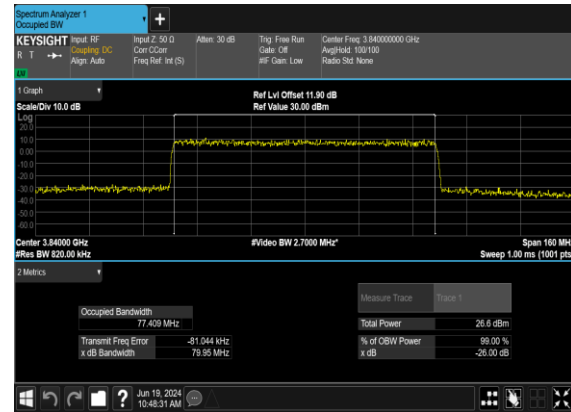




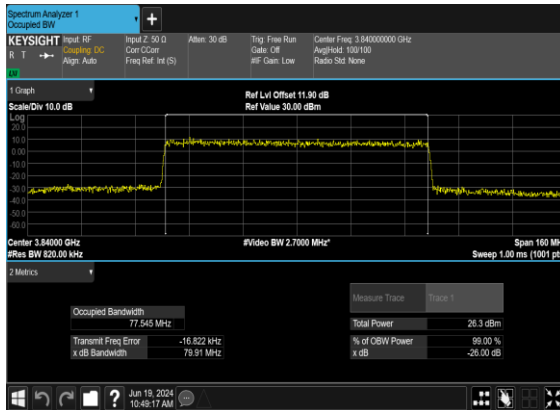
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OFDM_QPSK_Outer_Full_Mid_CH



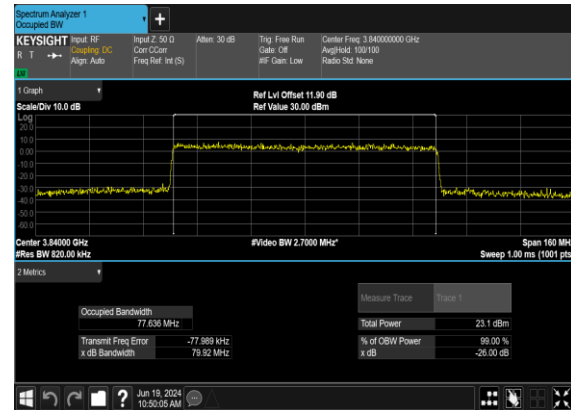
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QAM_Outer_Full_Mid_CH



N77(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

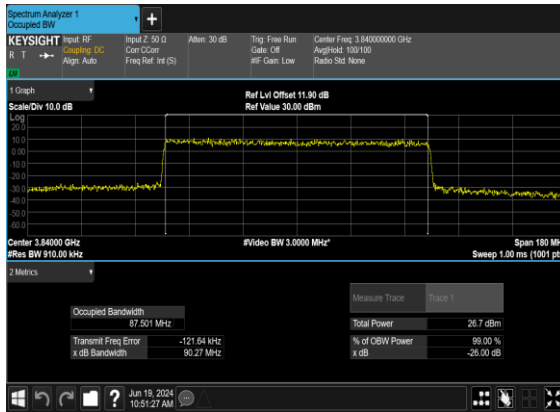


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QAM_Outer_Full_Mid_CH

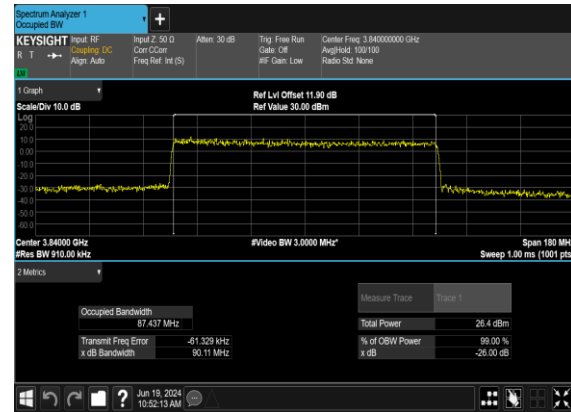




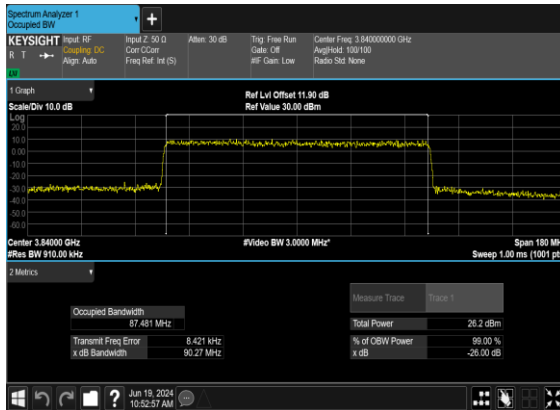
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OFDM_QPSK_Outer_Full_Mid_CH



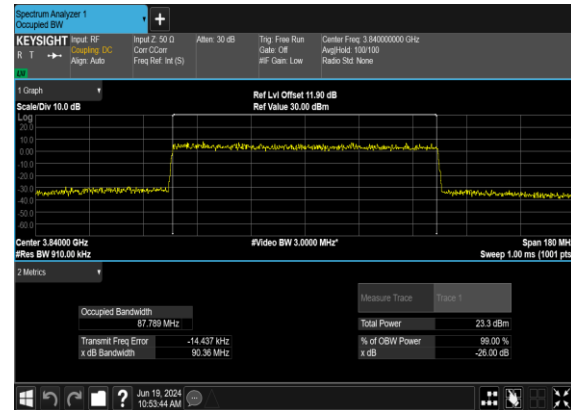
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QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

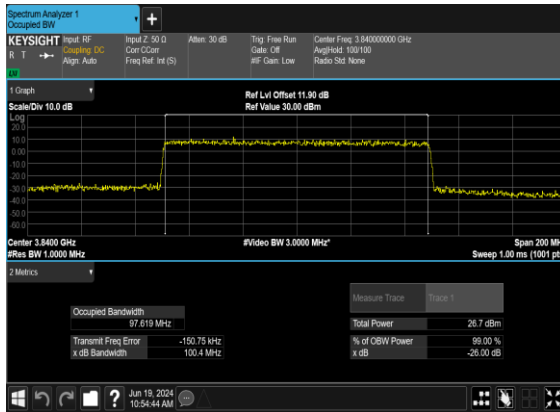


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QAM_Outer_Full_Mid_CH

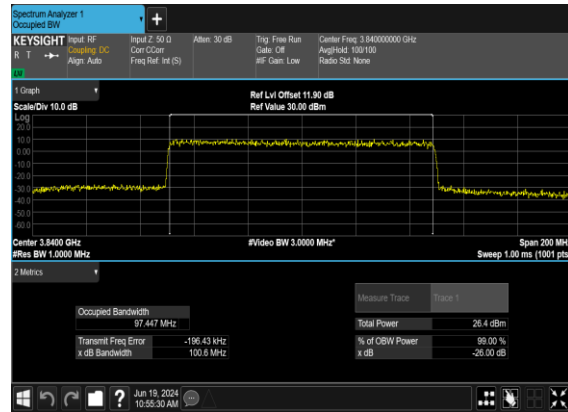




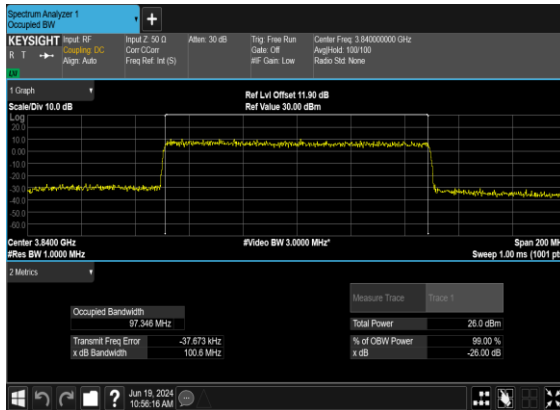
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OFDM_QPSK_Outer_Full_Mid_CH



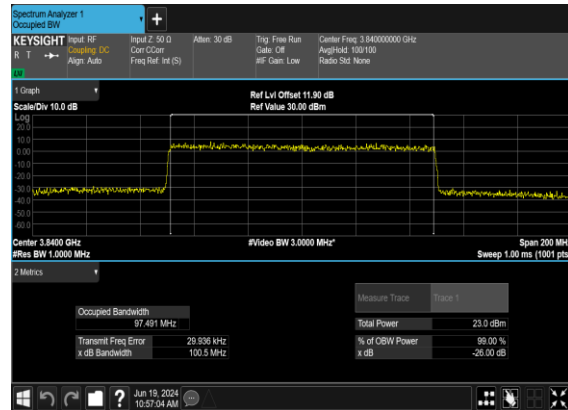
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QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

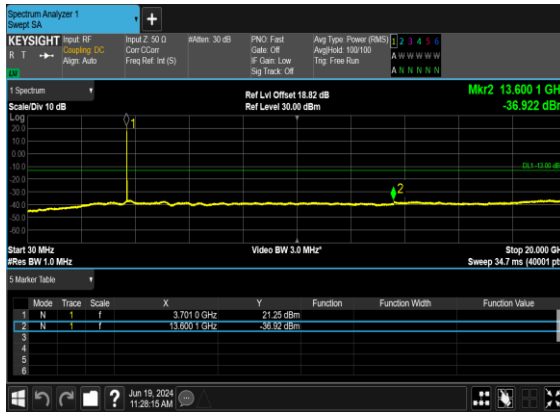
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	---
77	30	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	656000	3840.0	CP-OFDM QPSK	1@0	see graph	---
77	30	20	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	664666	3969.99	CP-OFDM QPSK	1@0	see graph	---
77	30	20	664666	3969.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	664666	3969.99	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	CP-OFDM QPSK	1@0	see graph	---
77	30	60	648668	3730.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	656000	3840.0	CP-OFDM QPSK	1@0	see graph	---
77	30	60	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	663332	3949.98	CP-OFDM QPSK	1@0	see graph	---
77	30	60	663332	3949.98	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	663332	3949.98	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	CP-OFDM QPSK	1@0	see graph	---
77	30	100	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS



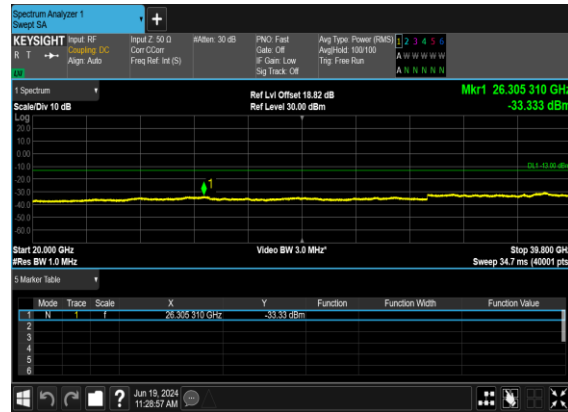
77	30	100	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	CP-OFDM QPSK	1@0	see graph	---
77	30	100	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	CP-OFDM QPSK	1@0	see graph	---
77	30	100	662000	3930.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	CP-OFDM QPSK	1@0	see graph	PASS



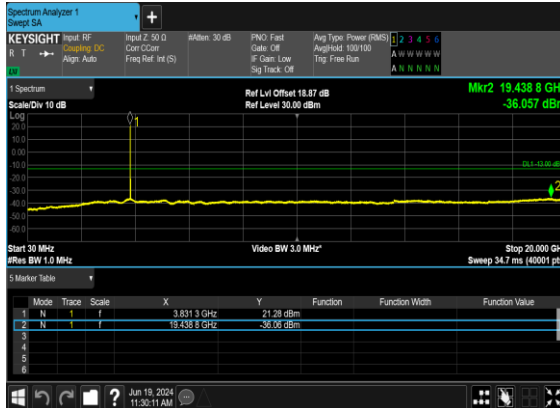
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



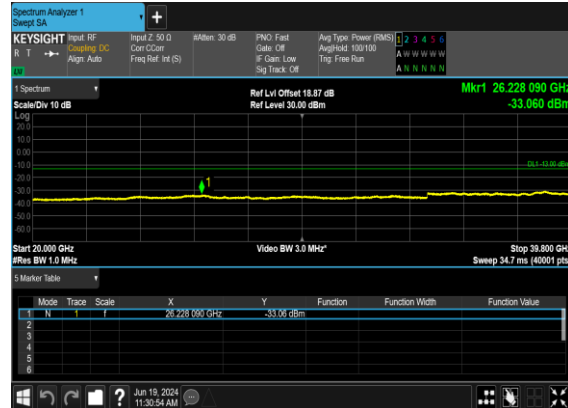
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

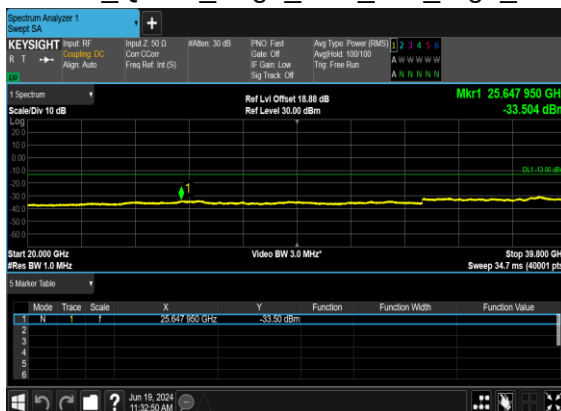




N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



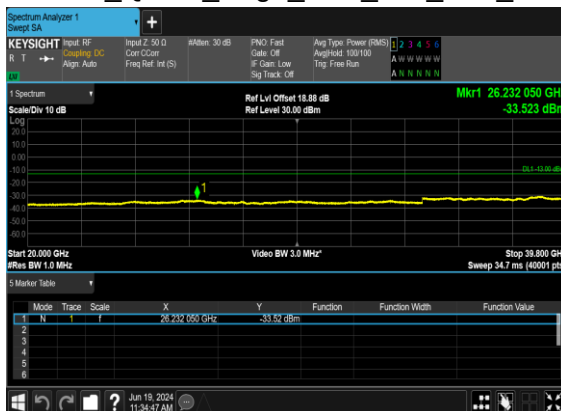
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

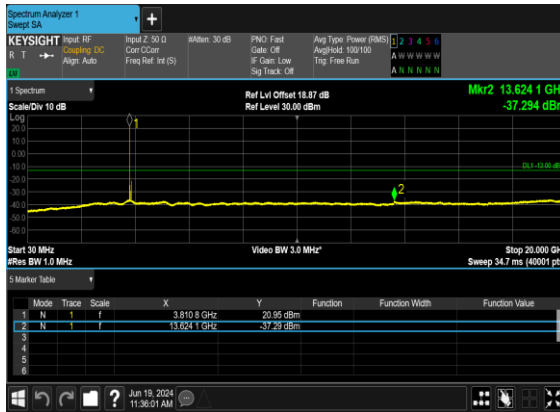


N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

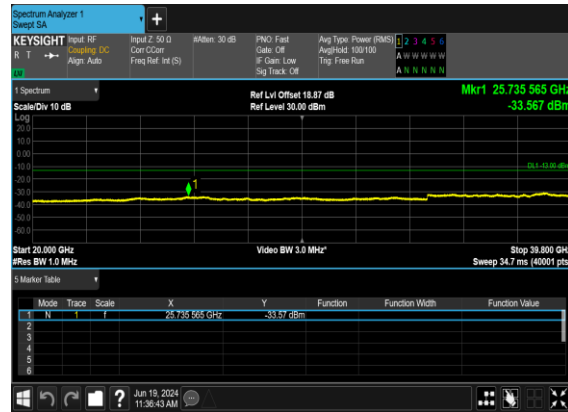




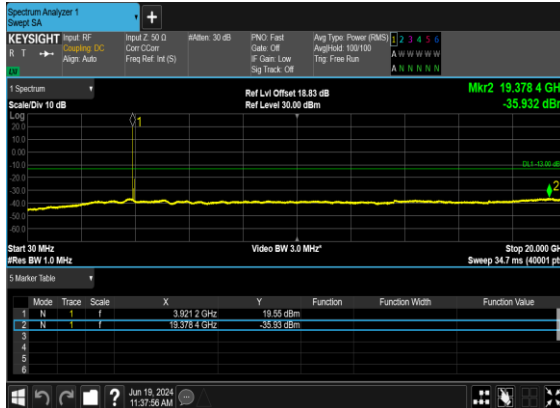
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



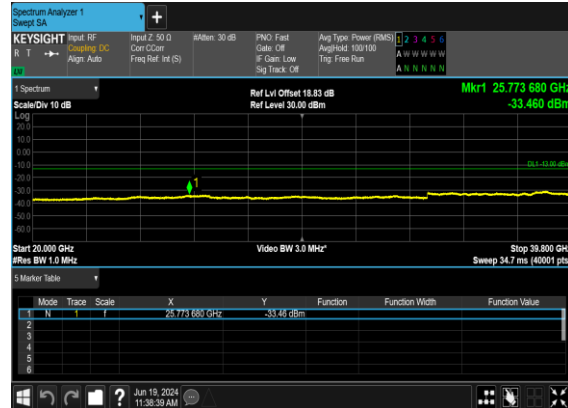
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

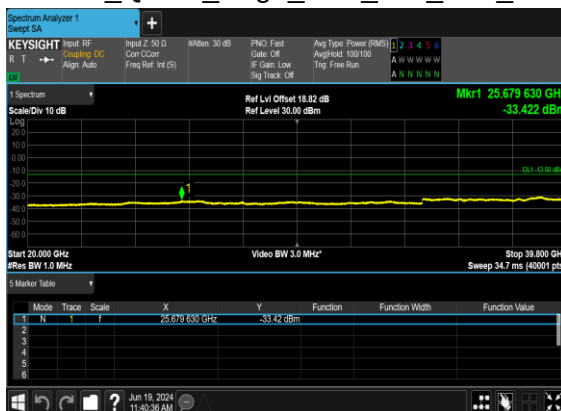
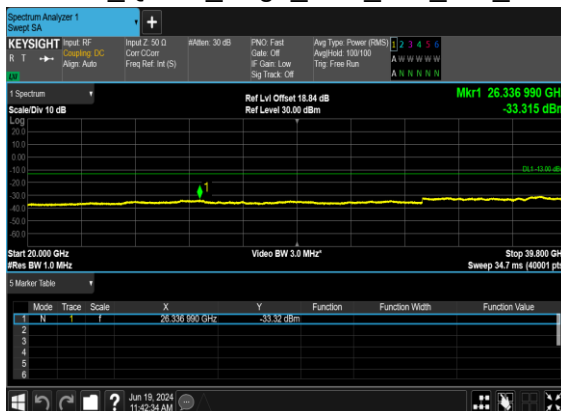


N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



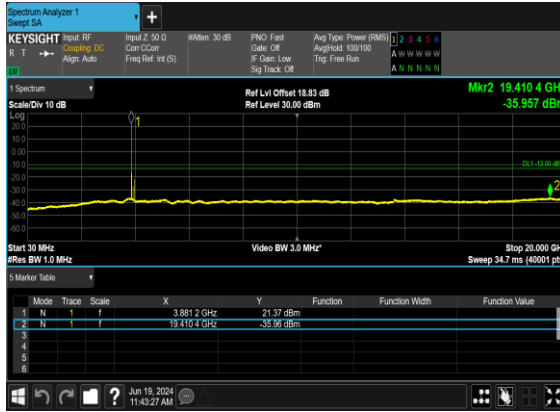
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



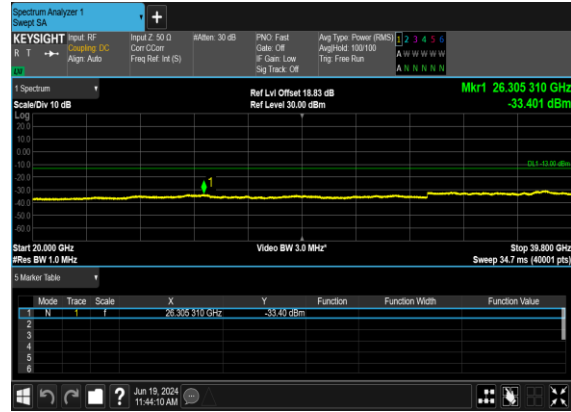
N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

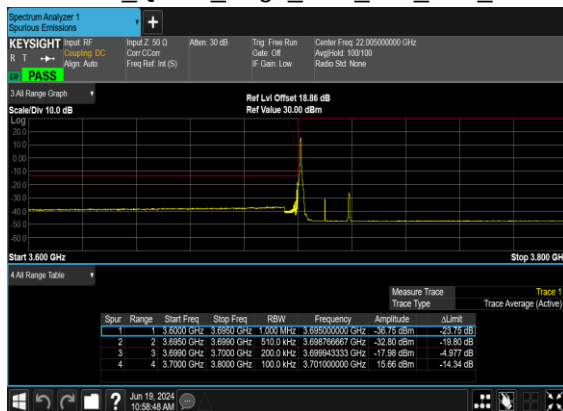


**Conducted Band Edge**

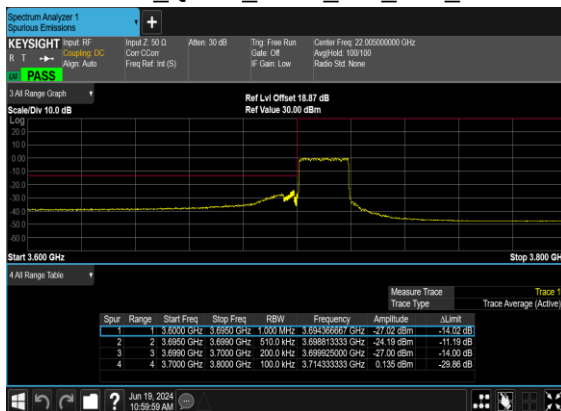
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	CP-OFDM QPSK	51@0	see graph	PASS
77	30	20	664666	3969.99	CP-OFDM QPSK	1@50	see graph	PASS
77	30	20	664666	3969.99	CP-OFDM QPSK	51@0	see graph	PASS
77	30	60	648668	3730.02	CP-OFDM QPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	CP-OFDM QPSK	162@0	see graph	PASS
77	30	60	663332	3949.98	CP-OFDM QPSK	1@161	see graph	PASS
77	30	60	663332	3949.98	CP-OFDM QPSK	162@0	see graph	PASS
77	30	100	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	CP-OFDM QPSK	273@0	see graph	PASS
77	30	100	662000	3930.0	CP-OFDM QPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	CP-OFDM QPSK	273@0	see graph	PASS



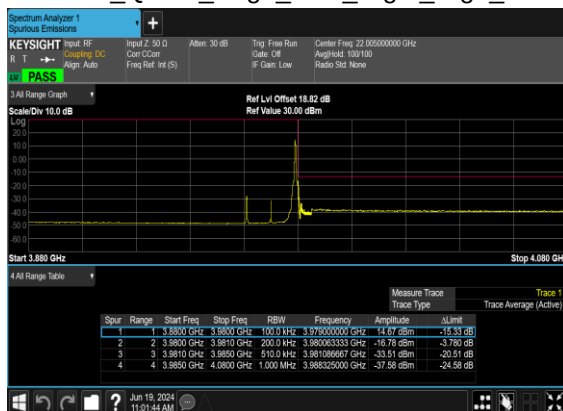
N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



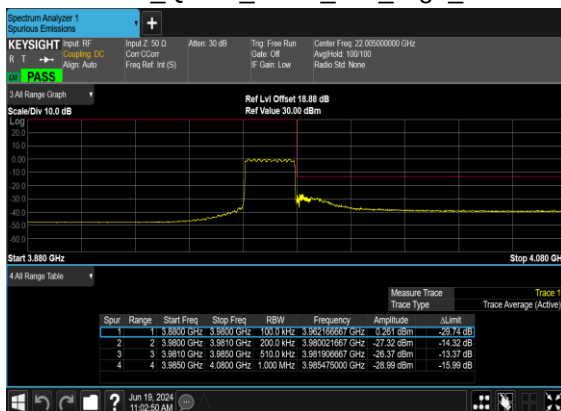
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(20M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(20M)_CP-
OFDM_QPSK_Outer_Full_High_CH

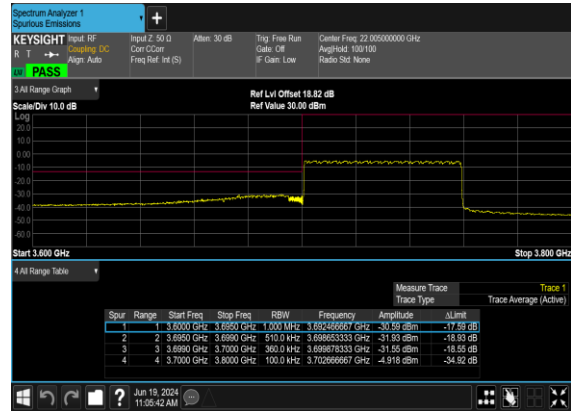




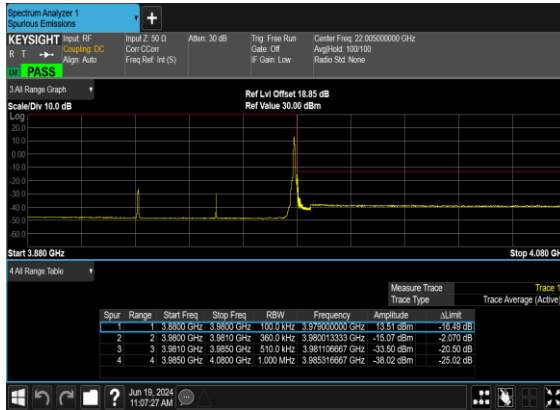
N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



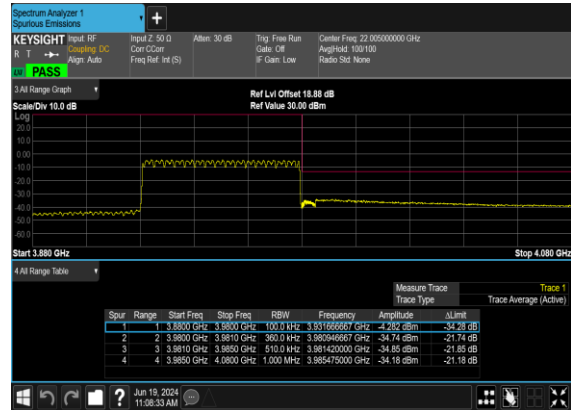
N77(60M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(60M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

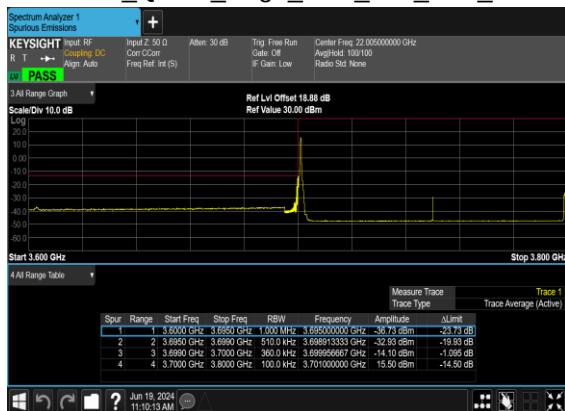


N77(60M)_CP-
OFDM_QPSK_Outer_Full_High_CH

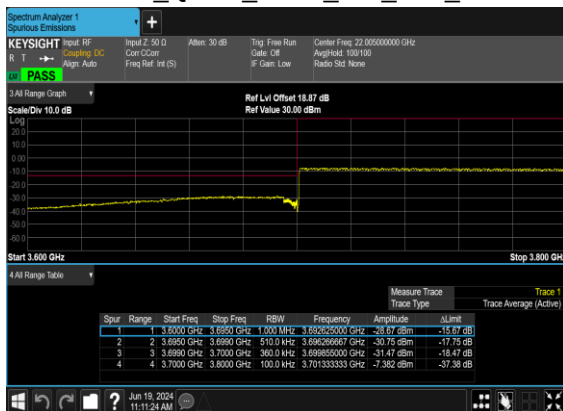




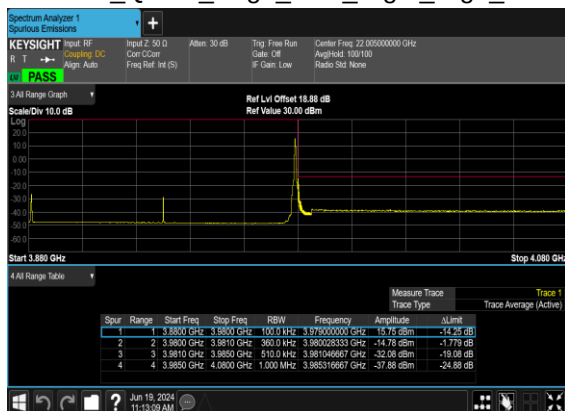
N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



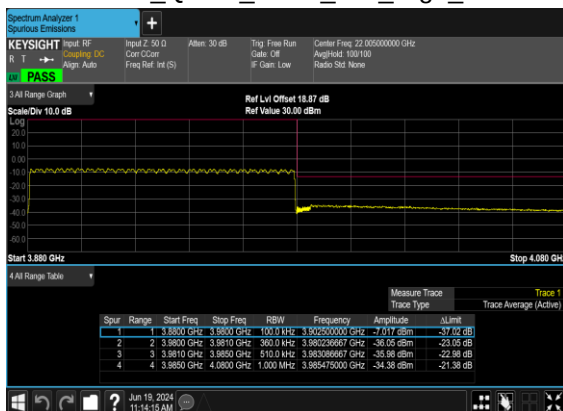
N77(100M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(100M)_CP-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N77 UL MIMO(Ant6)

Frequency Stability

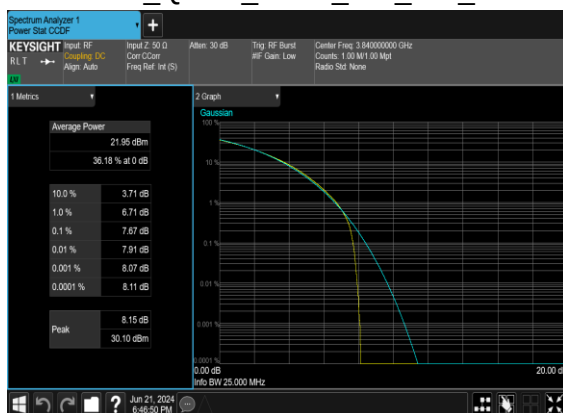
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0026	PASS	NV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0022	PASS	LV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0065	PASS	HV
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0021	PASS	-30℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0066	PASS	-20℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0026	PASS	-10℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0070	PASS	0℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0035	PASS	10℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0026	PASS	20℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0054	PASS	30℃
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	0.0047	PASS	40℃
77	30	20	656000	3840.0	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
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	7.67	13	PASS

N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



**Occupied Bandwidth**

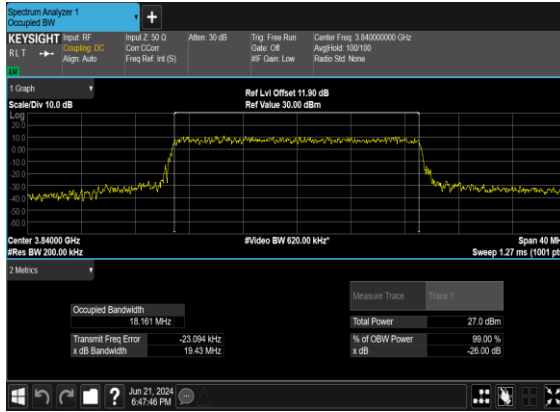
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.161	19.43
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.197	19.3
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.236	19.15
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.232	19.04
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.909	28.99
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.822	29.05
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.735	29.07
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.821	28.93
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.815	39.22
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.794	39.38
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.848	39.06
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.823	39.3
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.521	49.33
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.433	49.09
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.507	48.98
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.44	49.13
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.952	59.73
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.873	59.65
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.999	59.81
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.727	59.85
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.437	69.76
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.357	69.7
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.447	69.57



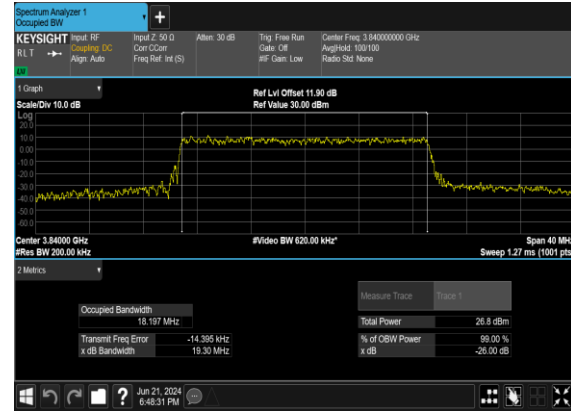
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.343	69.71
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.44	79.9
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.392	79.97
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.376	80.11
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.468	80.06
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.443	90.29
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.309	90.31
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.363	90.17
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.446	90.19
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.238	100.4
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.472	100.5
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.441	100.4
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.385	100.5



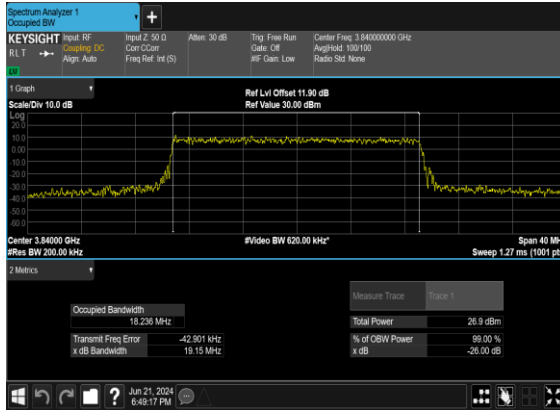
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

