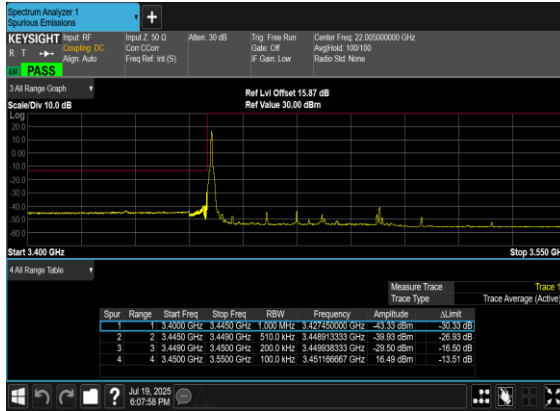
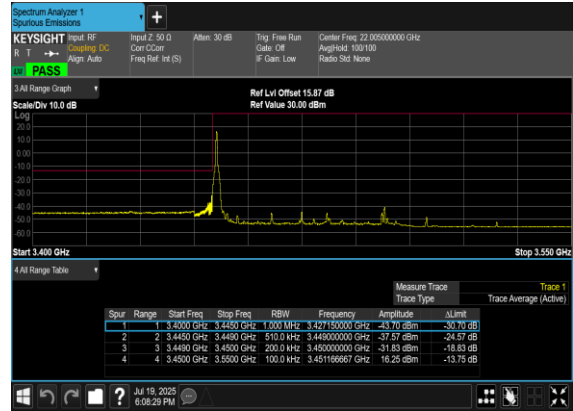
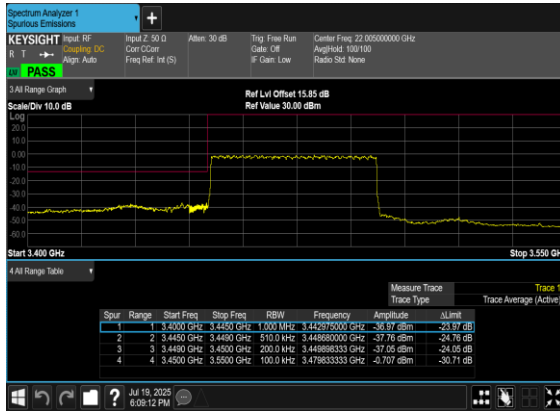
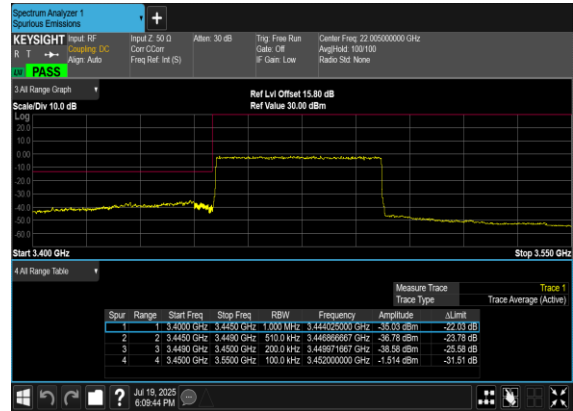
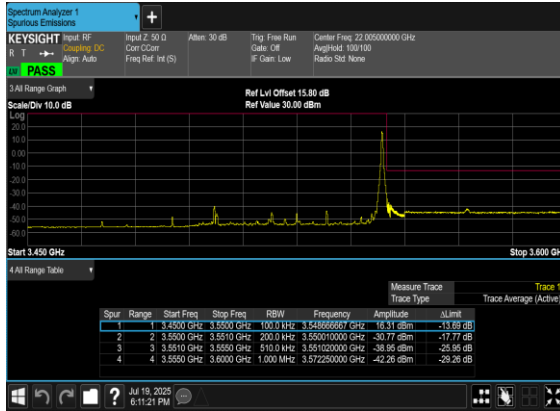
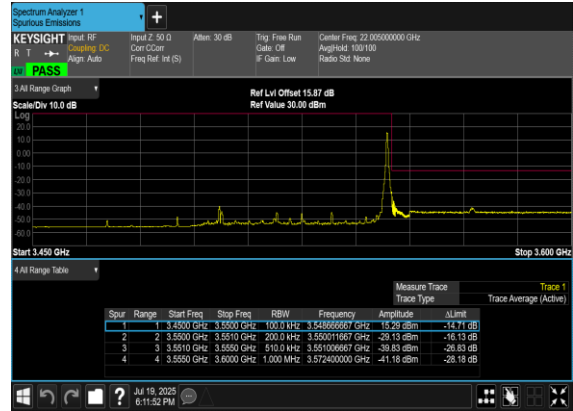
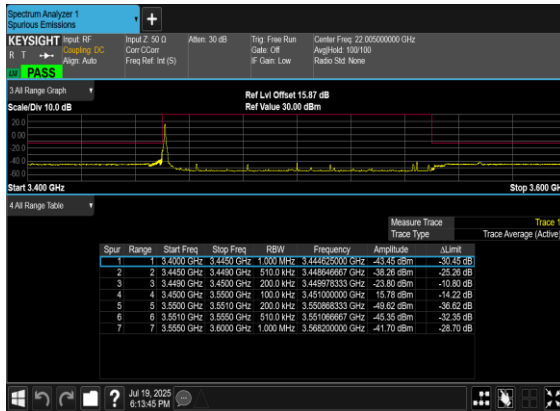
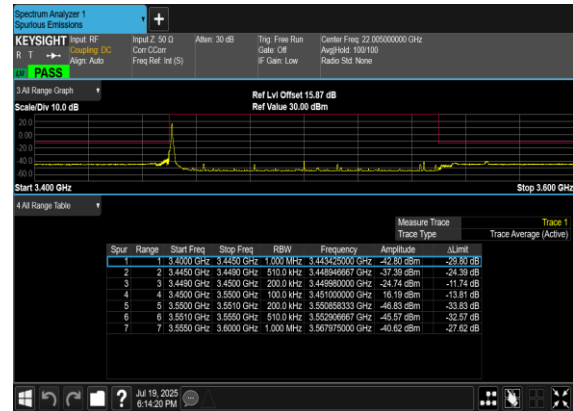
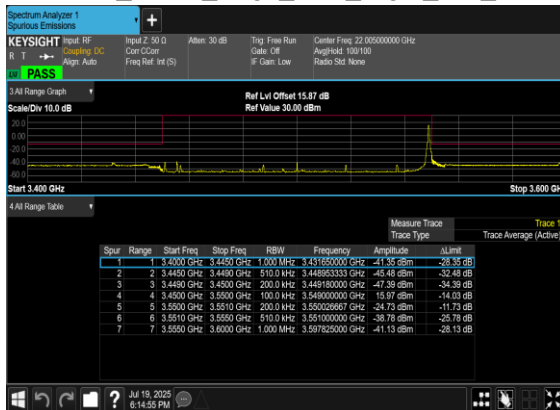
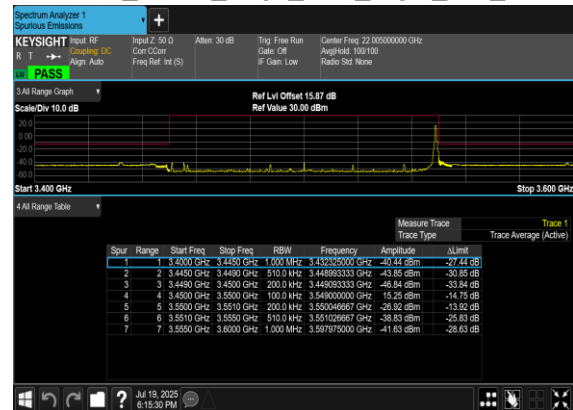


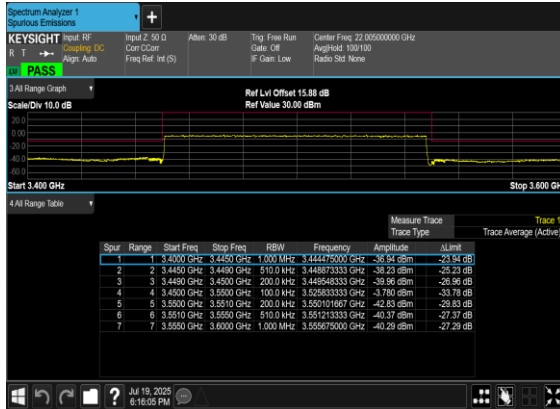
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CHN77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CHN77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CHN77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CHN77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CHN77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CHN77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

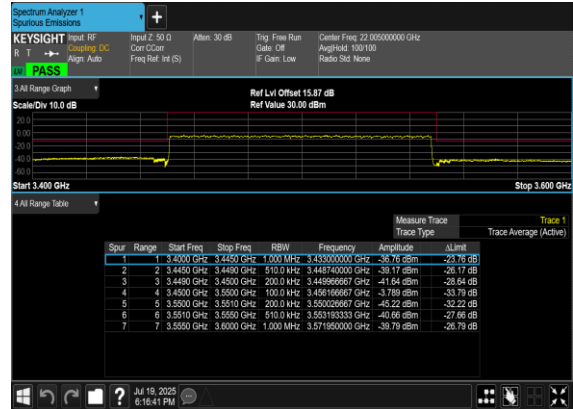
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CHN77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH



N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH





Software Version: 23.06.1602

FR1 n77 UL MIMO(Ant 5)-15 kHz**Transmitter Conducted Output Power And EIRP, ($G_T - L_c$)=1.32dBi**

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	ANT5 Power(dBm)	ANT6 Power(dBm)	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	15	10	630334	3455.01	CP-OFDM QPSK	26@13	20.69	20.86	23.79	25.11	0.3243
77	15	10	630334	3455.01	CP-OFDM QPSK	1@1	20.54	20.82	23.69	25.01	0.3170
77	15	10	630334	3455.01	CP-OFDM QPSK	1@50	20.58	20.87	23.74	25.06	0.3206
77	15	10	630334	3455.01	CP-OFDM 16 QAM	26@13	20.17	20.39	23.29	24.61	0.2891
77	15	10	630334	3455.01	CP-OFDM 16 QAM	1@1	20.54	20.4	23.48	24.80	0.3020
77	15	10	630334	3455.01	CP-OFDM 16 QAM	1@50	20.43	20.44	23.45	24.77	0.2999
77	15	10	633334	3500.01	CP-OFDM QPSK	26@13	20.82	21.14	23.99	25.31	0.3396
77	15	10	633334	3500.01	CP-OFDM QPSK	1@1	20.67	21.11	23.91	25.23	0.3334
77	15	10	633334	3500.01	CP-OFDM QPSK	1@50	20.66	21.13	23.91	25.23	0.3334
77	15	10	633334	3500.01	CP-OFDM 16 QAM	26@13	20.2	20.73	23.48	24.80	0.3020
77	15	10	633334	3500.01	CP-OFDM 16 QAM	1@1	20.28	20.69	23.50	24.82	0.3034
77	15	10	633334	3500.01	CP-OFDM 16 QAM	1@50	20.4	20.61	23.52	24.84	0.3048
77	15	10	636333	3544.995	CP-OFDM QPSK	26@13	20.77	21.19	24.00	25.32	0.3404
77	15	10	636333	3544.995	CP-OFDM QPSK	1@1	20.77	21.19	24.00	25.32	0.3404
77	15	10	636333	3544.995	CP-OFDM QPSK	1@50	20.69	21.21	23.97	25.29	0.3381
77	15	10	636333	3544.995	CP-OFDM 16 QAM	26@13	20.22	20.77	23.51	24.83	0.3041
77	15	10	636333	3544.995	CP-OFDM 16 QAM	1@1	20.53	20.72	23.64	24.96	0.3133
77	15	10	636333	3544.995	CP-OFDM 16 QAM	1@50	20.37	20.75	23.57	24.89	0.3083
77	15	15	630500	3457.5	CP-OFDM QPSK	39@19	20.75	21.01	23.89	25.21	0.3319
77	15	15	630500	3457.5	CP-OFDM QPSK	1@1	20.79	20.94	23.88	25.20	0.3311
77	15	15	630500	3457.5	CP-OFDM QPSK	1@77	20.86	21.01	23.95	25.27	0.3365
77	15	15	630500	3457.5	CP-OFDM 16 QAM	39@19	20.37	20.58	23.49	24.81	0.3027
77	15	15	630500	3457.5	CP-OFDM 16 QAM	1@1	20.52	20.51	23.53	24.85	0.3055
77	15	15	630500	3457.5	CP-OFDM 16 QAM	1@77	20.53	20.63	23.59	24.91	0.3097
77	15	15	633334	3500.01	CP-OFDM QPSK	39@19	20.85	21.17	24.02	25.34	0.3420
77	15	15	633334	3500.01	CP-OFDM QPSK	1@1	20.71	21.17	23.96	25.28	0.3373
77	15	15	633334	3500.01	CP-OFDM QPSK	1@77	20.71	21.16	23.95	25.27	0.3365
77	15	15	633334	3500.01	CP-OFDM 16 QAM	39@19	20.29	20.66	23.49	24.81	0.3027



77	15	15	633334	3500.01	CP-OFDM 16 QAM	1@1	20.52	20.87	23.71	25.03	0.3184
77	15	15	633334	3500.01	CP-OFDM 16 QAM	1@77	20.56	20.75	23.67	24.99	0.3155
77	15	15	636166	3542.49	CP-OFDM QPSK	39@19	20.79	21.32	24.07	25.39	0.3459
77	15	15	636166	3542.49	CP-OFDM QPSK	1@1	20.58	21.15	23.88	25.20	0.3311
77	15	15	636166	3542.49	CP-OFDM QPSK	1@77	20.69	21.24	23.98	25.30	0.3388
77	15	15	636166	3542.49	CP-OFDM 16 QAM	39@19	20.24	20.71	23.49	24.81	0.3027
77	15	15	636166	3542.49	CP-OFDM 16 QAM	1@1	20.39	20.69	23.55	24.87	0.3069
77	15	15	636166	3542.49	CP-OFDM 16 QAM	1@77	20.6	20.78	23.70	25.02	0.3177
77	15	20	630667	3460.005	CP-OFDM QPSK	53@26	20.9	21.03	23.98	25.30	0.3388
77	15	20	630667	3460.005	CP-OFDM QPSK	1@1	20.84	20.98	23.92	25.24	0.3342
77	15	20	630667	3460.005	CP-OFDM QPSK	1@104	20.68	21.11	23.91	25.23	0.3334
77	15	20	630667	3460.005	CP-OFDM 16 QAM	53@26	20.35	20.58	23.48	24.80	0.3020
77	15	20	630667	3460.005	CP-OFDM 16 QAM	1@1	20.51	20.7	23.62	24.94	0.3119
77	15	20	630667	3460.005	CP-OFDM 16 QAM	1@104	20.53	20.74	23.65	24.97	0.3141
77	15	20	633334	3500.01	CP-OFDM QPSK	53@26	20.72	21.18	23.97	25.29	0.3381
77	15	20	633334	3500.01	CP-OFDM QPSK	1@1	20.63	21.24	23.96	25.28	0.3373
77	15	20	633334	3500.01	CP-OFDM QPSK	1@104	20.66	21.13	23.91	25.23	0.3334
77	15	20	633334	3500.01	CP-OFDM 16 QAM	53@26	20.21	20.69	23.47	24.79	0.3013
77	15	20	633334	3500.01	CP-OFDM 16 QAM	1@1	20.49	20.76	23.64	24.96	0.3133
77	15	20	633334	3500.01	CP-OFDM 16 QAM	1@104	20.4	20.61	23.52	24.84	0.3048
77	15	20	636000	3540	CP-OFDM QPSK	53@26	20.65	21.16	23.92	25.24	0.3342
77	15	20	636000	3540	CP-OFDM QPSK	1@1	20.6	21.05	23.84	25.16	0.3281
77	15	20	636000	3540	CP-OFDM QPSK	1@104	20.63	21.12	23.89	25.21	0.3319
77	15	20	636000	3540	CP-OFDM 16 QAM	53@26	20.17	20.68	23.44	24.76	0.2992
77	15	20	636000	3540	CP-OFDM 16 QAM	1@1	20.34	20.64	23.50	24.82	0.3034
77	15	20	636000	3540	CP-OFDM 16 QAM	1@104	20.46	20.7	23.59	24.91	0.3097
77	15	25	630834	3462.51	CP-OFDM QPSK	67@33	20.95	21.12	24.05	25.37	0.3443
77	15	25	630834	3462.51	CP-OFDM QPSK	1@1	20.85	21.01	23.94	25.26	0.3357
77	15	25	630834	3462.51	CP-OFDM QPSK	1@131	20.86	21.12	24.00	25.32	0.3404
77	15	25	630834	3462.51	CP-OFDM 16 QAM	67@33	20.36	20.71	23.55	24.87	0.3069
77	15	25	630834	3462.51	CP-OFDM 16 QAM	1@1	20.63	20.62	23.64	24.96	0.3133
77	15	25	630834	3462.51	CP-OFDM 16 QAM	1@131	20.48	20.89	23.70	25.02	0.3177
77	15	25	633334	3500.01	CP-OFDM QPSK	67@33	20.83	21.23	24.04	25.36	0.3436
77	15	25	633334	3500.01	CP-OFDM QPSK	1@1	20.71	21.13	23.94	25.26	0.3357
77	15	25	633334	3500.01	CP-OFDM QPSK	1@131	20.75	21.08	23.93	25.25	0.3350



77	15	25	633334	3500.01	CP-OFDM 16 QAM	67@33	20.28	20.81	23.56	24.88	0.3076
77	15	25	633334	3500.01	CP-OFDM 16 QAM	1@1	20.5	20.79	23.66	24.98	0.3148
77	15	25	633334	3500.01	CP-OFDM 16 QAM	1@131	20.4	20.79	23.61	24.93	0.3112
77	15	25	635833	3537.495	CP-OFDM QPSK	67@33	20.8	21.19	24.01	25.33	0.3412
77	15	25	635833	3537.495	CP-OFDM QPSK	1@1	20.52	21	23.78	25.10	0.3236
77	15	25	635833	3537.495	CP-OFDM QPSK	1@131	20.65	21.19	23.94	25.26	0.3357
77	15	25	635833	3537.495	CP-OFDM 16 QAM	67@33	20.34	20.73	23.55	24.87	0.3069
77	15	25	635833	3537.495	CP-OFDM 16 QAM	1@1	20.27	20.61	23.45	24.77	0.2999
77	15	25	635833	3537.495	CP-OFDM 16 QAM	1@131	20.31	20.79	23.57	24.89	0.3083
77	15	30	631000	3465	CP-OFDM QPSK	80@40	20.9	21.04	23.98	25.30	0.3388
77	15	30	631000	3465	CP-OFDM QPSK	1@1	20.7	21.05	23.89	25.21	0.3319
77	15	30	631000	3465	CP-OFDM QPSK	1@158	20.74	21.15	23.96	25.28	0.3373
77	15	30	631000	3465	CP-OFDM 16 QAM	80@40	20.25	20.52	23.40	24.72	0.2965
77	15	30	631000	3465	CP-OFDM 16 QAM	1@1	20.63	20.54	23.60	24.92	0.3105
77	15	30	631000	3465	CP-OFDM 16 QAM	1@158	20.54	20.85	23.71	25.03	0.3184
77	15	30	633334	3500.01	CP-OFDM QPSK	80@40	20.81	21.25	24.05	25.37	0.3443
77	15	30	633334	3500.01	CP-OFDM QPSK	1@1	20.84	21.21	24.04	25.36	0.3436
77	15	30	633334	3500.01	CP-OFDM QPSK	1@158	20.77	21.2	24.00	25.32	0.3404
77	15	30	633334	3500.01	CP-OFDM 16 QAM	80@40	20.29	20.75	23.54	24.86	0.3062
77	15	30	633334	3500.01	CP-OFDM 16 QAM	1@1	20.51	20.9	23.72	25.04	0.3192
77	15	30	633334	3500.01	CP-OFDM 16 QAM	1@158	20.52	20.77	23.66	24.98	0.3148
77	15	30	635666	3534.99	CP-OFDM QPSK	80@40	20.99	21.37	24.19	25.51	0.3556
77	15	30	635666	3534.99	CP-OFDM QPSK	1@1	20.79	21.21	24.02	25.34	0.3420
77	15	30	635666	3534.99	CP-OFDM QPSK	1@158	20.97	21.37	24.18	25.50	0.3548
77	15	30	635666	3534.99	CP-OFDM 16 QAM	80@40	20.31	20.9	23.63	24.95	0.3126
77	15	30	635666	3534.99	CP-OFDM 16 QAM	1@1	20.49	20.89	23.70	25.02	0.3177
77	15	30	635666	3534.99	CP-OFDM 16 QAM	1@158	20.69	20.98	23.85	25.17	0.3289
77	15	40	631334	3470.01	CP-OFDM QPSK	108@54	20.88	21.18	24.04	25.36	0.3436
77	15	40	631334	3470.01	CP-OFDM QPSK	1@1	20.75	21.04	23.91	25.23	0.3334
77	15	40	631334	3470.01	CP-OFDM QPSK	1@214	20.76	21.34	24.07	25.39	0.3459
77	15	40	631334	3470.01	CP-OFDM 16 QAM	108@54	20.32	20.67	23.51	24.83	0.3041
77	15	40	631334	3470.01	CP-OFDM 16 QAM	1@1	20.7	20.55	23.64	24.96	0.3133
77	15	40	631334	3470.01	CP-OFDM 16 QAM	1@214	20.63	20.91	23.78	25.10	0.3236
77	15	40	633334	3500.01	CP-OFDM QPSK	108@54	20.79	21.25	24.04	25.36	0.3436
77	15	40	633334	3500.01	CP-OFDM QPSK	1@1	20.81	21.16	24.00	25.32	0.3404



77	15	40	633334	3500.01	CP-OFDM QPSK	1@214	20.67	21.22	23.96	25.28	0.3373
77	15	40	633334	3500.01	CP-OFDM 16 QAM	108@54	20.34	20.78	23.58	24.90	0.3090
77	15	40	633334	3500.01	CP-OFDM 16 QAM	1@1	20.55	20.78	23.68	25.00	0.3162
77	15	40	633334	3500.01	CP-OFDM 16 QAM	1@214	20.49	20.83	23.67	24.99	0.3155
77	15	40	635333	3529.995	CP-OFDM QPSK	108@54	20.71	21.24	23.99	25.31	0.3396
77	15	40	635333	3529.995	CP-OFDM QPSK	1@1	20.7	21.19	23.96	25.28	0.3373
77	15	40	635333	3529.995	CP-OFDM QPSK	1@214	20.89	21.32	24.12	25.44	0.3499
77	15	40	635333	3529.995	CP-OFDM 16 QAM	108@54	20.19	20.86	23.55	24.87	0.3069
77	15	40	635333	3529.995	CP-OFDM 16 QAM	1@1	20.49	20.79	23.65	24.97	0.3141
77	15	40	635333	3529.995	CP-OFDM 16 QAM	1@214	20.65	20.93	23.80	25.12	0.3251
77	15	50	631667	3475.005	CP-OFDM QPSK	135@67	20.76	21.26	24.03	25.35	0.3428
77	15	50	631667	3475.005	CP-OFDM QPSK	1@1	20.78	20.92	23.86	25.18	0.3296
77	15	50	631667	3475.005	CP-OFDM QPSK	1@268	20.83	21.17	24.01	25.33	0.3412
77	15	50	631667	3475.005	CP-OFDM 16 QAM	135@67	20.36	20.64	23.51	24.83	0.3041
77	15	50	631667	3475.005	CP-OFDM 16 QAM	1@1	20.53	20.58	23.57	24.89	0.3083
77	15	50	631667	3475.005	CP-OFDM 16 QAM	1@268	20.61	20.76	23.70	25.02	0.3177
77	15	50	631667	3475.005	CP-OFDM 64 QAM	135@67	19.01	19.29	22.16	23.48	0.2228
77	15	50	631667	3475.005	CP-OFDM 64 QAM	1@1	18.78	18.87	21.84	23.16	0.2070
77	15	50	631667	3475.005	CP-OFDM 64 QAM	1@268	18.57	19.15	21.88	23.20	0.2089
77	15	50	631667	3475.005	CP-OFDM 256 QAM	135@67	15.85	16.36	19.12	20.44	0.1107
77	15	50	631667	3475.005	CP-OFDM 256 QAM	1@1	15.87	16.31	19.11	20.43	0.1104
77	15	50	631667	3475.005	CP-OFDM 256 QAM	1@268	15.82	16.55	19.21	20.53	0.1130
77	15	50	633334	3500.01	CP-OFDM QPSK	135@67	21.25	21.38	24.33	25.65	0.3673
77	15	50	633334	3500.01	CP-OFDM QPSK	1@1	20.68	21.17	23.94	25.26	0.3357
77	15	50	633334	3500.01	CP-OFDM QPSK	1@268	20.71	21.15	23.95	25.27	0.3365
77	15	50	633334	3500.01	CP-OFDM 16 QAM	135@67	20.45	20.83	23.65	24.97	0.3141
77	15	50	633334	3500.01	CP-OFDM 16 QAM	1@1	20.37	20.7	23.55	24.87	0.3069
77	15	50	633334	3500.01	CP-OFDM 16 QAM	1@268	20.57	20.75	23.67	24.99	0.3155
77	15	50	633334	3500.01	CP-OFDM 64 QAM	135@67	18.85	19.49	22.19	23.51	0.2244
77	15	50	633334	3500.01	CP-OFDM 64 QAM	1@1	18.63	19.17	21.92	23.24	0.2109
77	15	50	633334	3500.01	CP-OFDM 64 QAM	1@268	18.64	19.09	21.88	23.20	0.2089
77	15	50	633334	3500.01	CP-OFDM 256 QAM	135@67	15.83	16.47	19.17	20.49	0.1119
77	15	50	633334	3500.01	CP-OFDM 256 QAM	1@1	15.94	16.43	19.20	20.52	0.1127



77	15	50	633334	3500.01	CP-OFDM 256 QAM	1@268	15.84	16.41	19.14	20.46	0.1112
77	15	50	635000	3525	CP-OFDM QPSK	135@67	20.69	21.3	24.02	25.34	0.3420
77	15	50	635000	3525	CP-OFDM QPSK	1@1	20.78	21.08	23.94	25.26	0.3357
77	15	50	635000	3525	CP-OFDM QPSK	1@268	20.69	21.27	24.00	25.32	0.3404
77	15	50	635000	3525	CP-OFDM 16 QAM	135@67	20.21	20.65	23.45	24.77	0.2999
77	15	50	635000	3525	CP-OFDM 16 QAM	1@1	20.46	20.67	23.58	24.90	0.3090
77	15	50	635000	3525	CP-OFDM 16 QAM	1@268	20.46	20.95	23.72	25.04	0.3192
77	15	50	635000	3525	CP-OFDM 64 QAM	135@67	18.74	19.34	22.06	23.38	0.2178
77	15	50	635000	3525	CP-OFDM 64 QAM	1@1	18.57	19.1	21.85	23.17	0.2075
77	15	50	635000	3525	CP-OFDM 64 QAM	1@268	18.52	19.16	21.86	23.18	0.2080
77	15	50	635000	3525	CP-OFDM 256 QAM	135@67	15.71	16.2	18.97	20.29	0.1069
77	15	50	635000	3525	CP-OFDM 256 QAM	1@1	15.82	16.42	19.14	20.46	0.1112
77	15	50	635000	3525	CP-OFDM 256 QAM	1@268	15.75	16.58	19.20	20.52	0.1127



Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	12.7	PASS	NV
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	7.2	PASS	LV
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	16.8	PASS	HV
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	16.7	PASS	-30℃
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	10	PASS	-20℃
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	14.4	PASS	-10℃
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	9.3	PASS	0℃
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	16.3	PASS	10℃
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	18.2	PASS	20℃
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	8.4	PASS	30℃
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	7.3	PASS	40℃
77	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	15.2	PASS	50℃

 $|\text{MAX}(\Delta f)| = 18.2 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3450.909082	$\geq 3450 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3549.110918	$\leq 3550 \text{ MHz}$	



NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	8.49	13	PASS

Spectrum Analyzer 1
Power Stat C23F

KEYSIGHT Input RF
Power Stat C23F
Align: Auto

Input 2: 50.0
Corr: Corr
Freq Ref: 10 (S)

Att: 30.0 dB
Trig: RF Burst
RF Gain: Low
Center Freq: 3,500,000,000 Hz
Counts: 1.00 M1.0 Mpt
Radio Std: None

1 Metrics

Average Power

22.35 dBm
36.57 % at 0 dB

10.0 % 3.65 dB
1.0 % 6.72 dB
0.1 % 8.49 dB
0.01 % 9.58 dB
0.001 % 10.45 dB
0.0001 % 10.55 dB

Peak

10.71 dB
33.06 dBm

2 Graph
Gaussian

100.0
10.0
1.0
0.1
0.01
0.001
0.0001

0.00 dB
20.00 dB

0.00 MHz
20.00 MHz

info BW 25.00 MHz

Jul 20, 2015
4:22:21 AM



Occupied Bandwidth

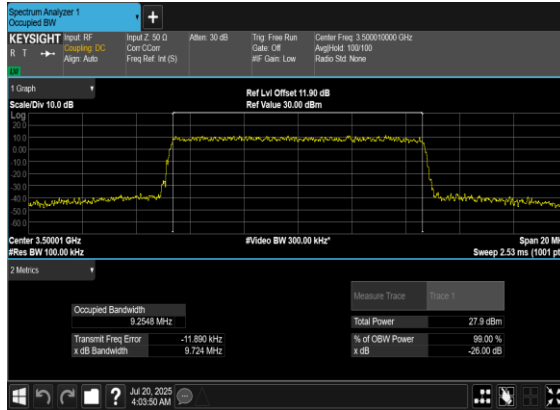
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	15	10	633334	3500.01	CP-OFDM QPSK	52@0	9.2548	9.724
77	15	10	633334	3500.01	CP-OFDM 16 QAM	52@0	9.2992	9.693
77	15	10	633334	3500.01	CP-OFDM 64 QAM	52@0	9.2602	9.692
77	15	10	633334	3500.01	CP-OFDM 256 QAM	52@0	9.2841	9.692
77	15	15	633334	3500.01	CP-OFDM QPSK	79@0	14.103	14.64
77	15	15	633334	3500.01	CP-OFDM 16 QAM	79@0	14.119	14.63
77	15	15	633334	3500.01	CP-OFDM 64 QAM	79@0	14.087	14.62
77	15	15	633334	3500.01	CP-OFDM 256 QAM	79@0	14.065	14.62
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	18.806	19.53
77	15	20	633334	3500.01	CP-OFDM 16 QAM	106@0	18.941	19.55
77	15	20	633334	3500.01	CP-OFDM 64 QAM	106@0	18.891	19.64
77	15	20	633334	3500.01	CP-OFDM 256 QAM	106@0	18.899	19.63
77	15	25	633334	3500.01	CP-OFDM QPSK	133@0	23.713	24.59
77	15	25	633334	3500.01	CP-OFDM 16 QAM	133@0	23.739	24.61
77	15	25	633334	3500.01	CP-OFDM 64 QAM	133@0	23.68	24.6
77	15	25	633334	3500.01	CP-OFDM 256 QAM	133@0	23.719	24.71
77	15	30	633334	3500.01	CP-OFDM QPSK	160@0	28.474	29.54
77	15	30	633334	3500.01	CP-OFDM 16 QAM	160@0	28.576	29.46
77	15	30	633334	3500.01	CP-OFDM 64 QAM	160@0	28.486	29.52
77	15	30	633334	3500.01	CP-OFDM 256 QAM	160@0	28.562	29.45
77	15	40	633334	3500.01	CP-OFDM QPSK	216@0	38.555	39.72
77	15	40	633334	3500.01	CP-OFDM 16 QAM	216@0	38.527	39.8



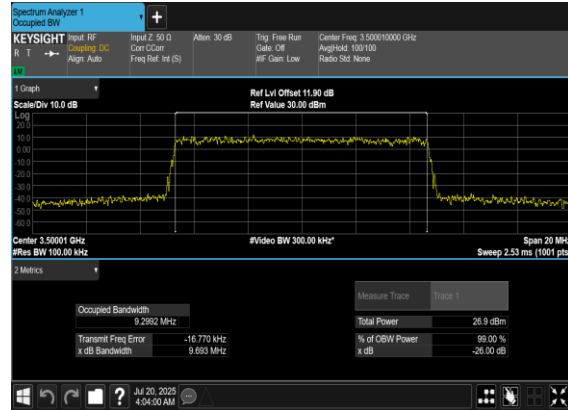
77	15	40	633334	3500.01	CP-OFDM 64 QAM	216@0	38.407	39.84
77	15	40	633334	3500.01	CP-OFDM 256 QAM	216@0	38.546	39.81
77	15	50	633334	3500.01	CP-OFDM QPSK	270@0	48.129	49.65
77	15	50	633334	3500.01	CP-OFDM 16 QAM	270@0	48.045	49.7
77	15	50	633334	3500.01	CP-OFDM 64 QAM	270@0	48.351	49.7
77	15	50	633334	3500.01	CP-OFDM 256 QAM	270@0	48.095	49.73



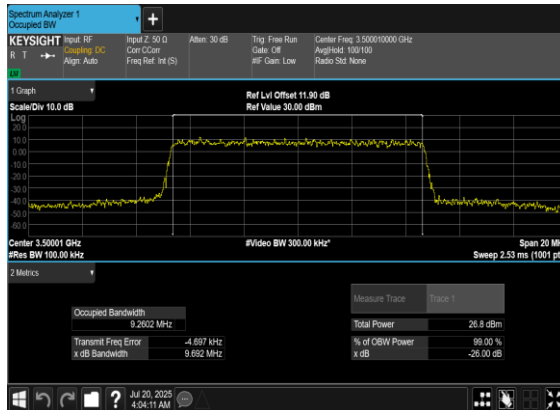
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



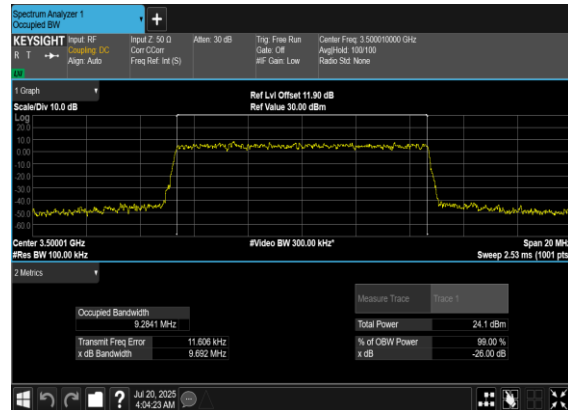
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QAM_Outer_Full_Mid_CH



N77(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

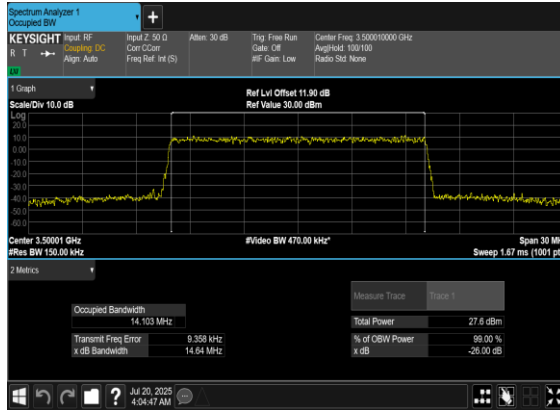


N77(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

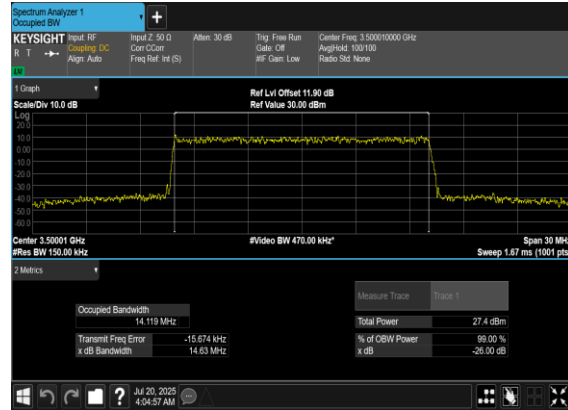




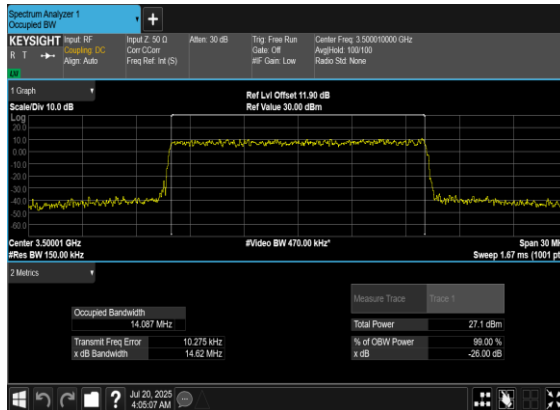
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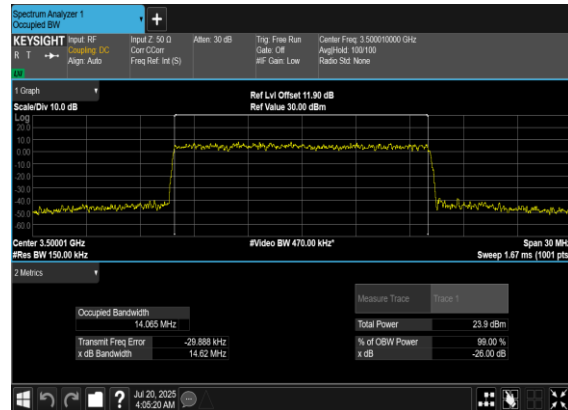
N77(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

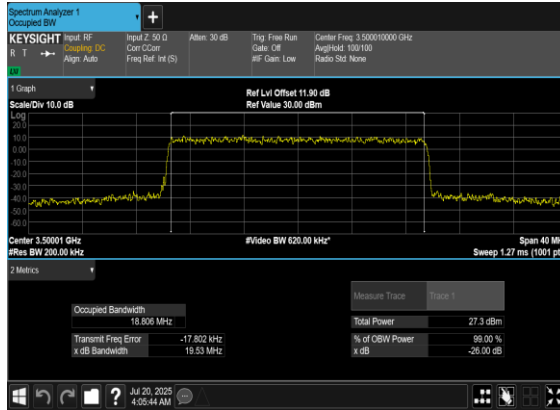


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QAM_Outer_Full_Mid_CH

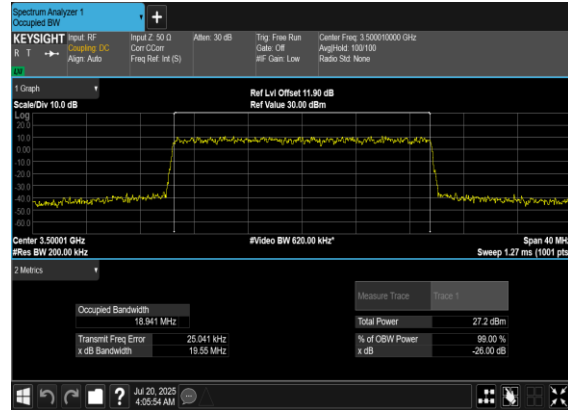




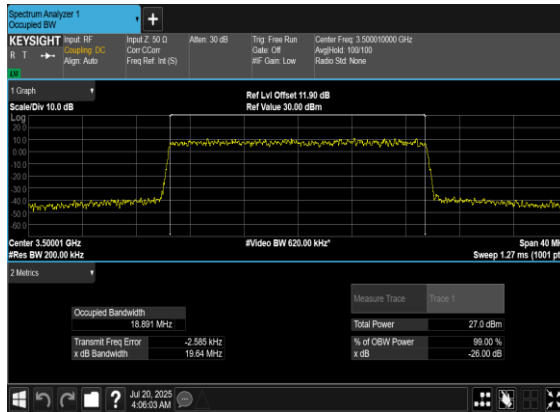
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OFDM_QPSK_Outer_Full_Mid_CH



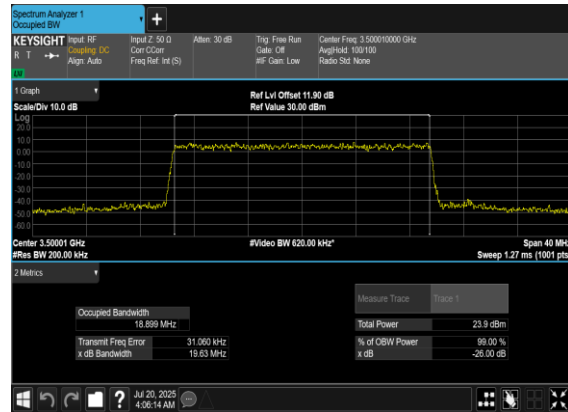
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QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

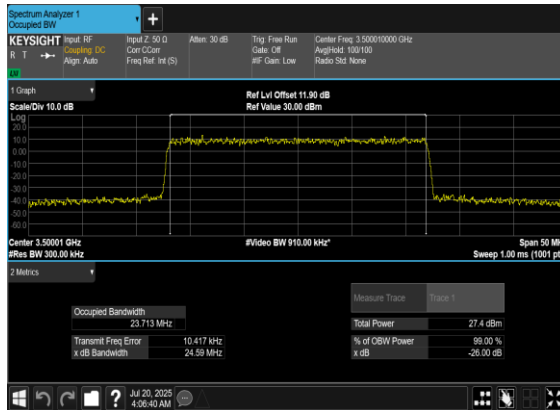


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QAM_Outer_Full_Mid_CH

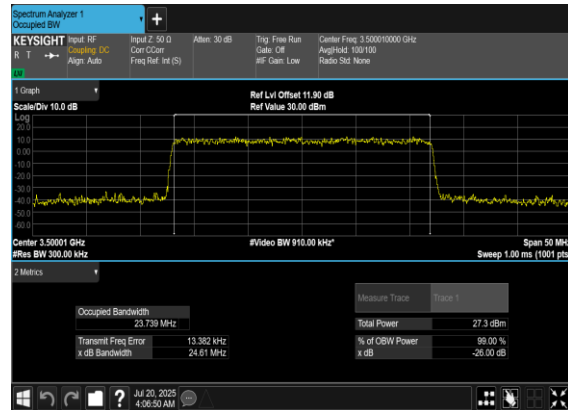




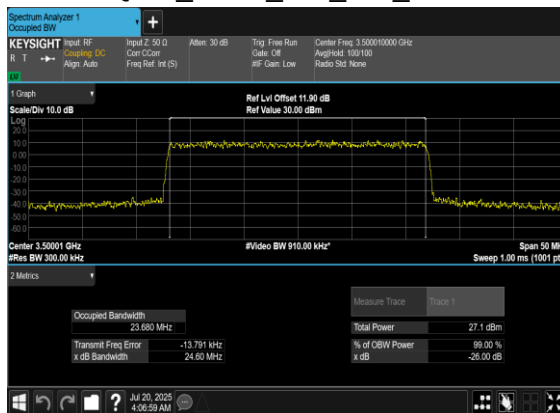
N77(25M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



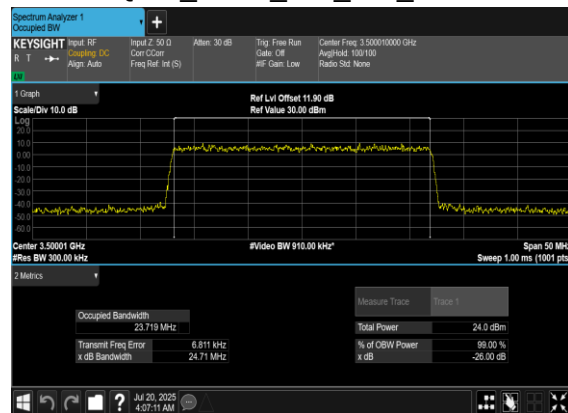
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QAM_Outer_Full_Mid_CH



N77(25M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

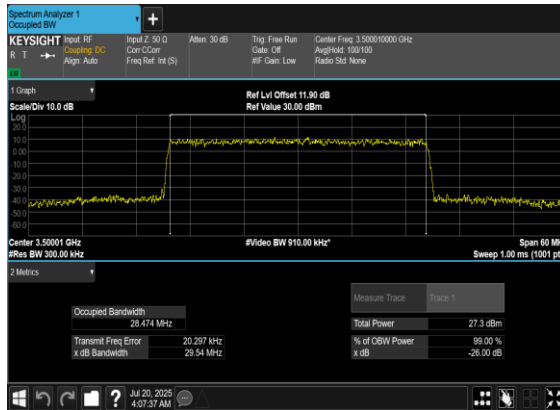


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QAM_Outer_Full_Mid_CH

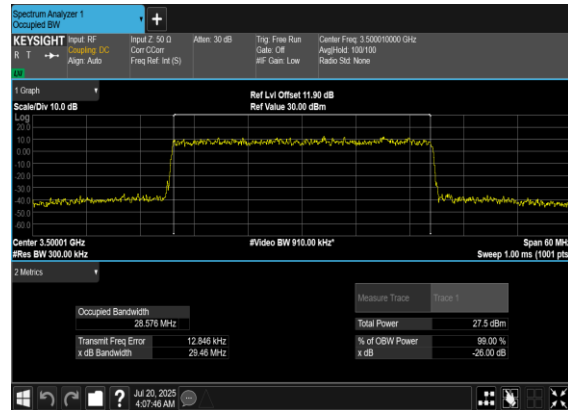




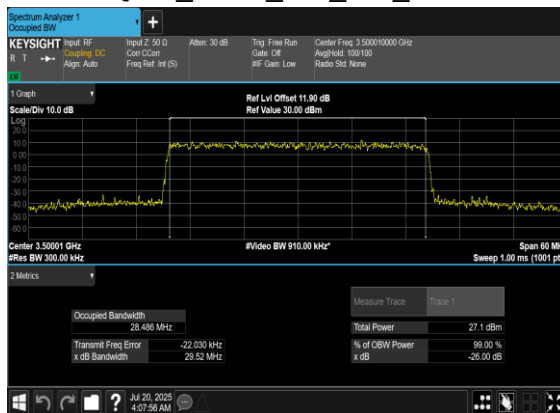
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OFDM_QPSK_Outer_Full_Mid_CH



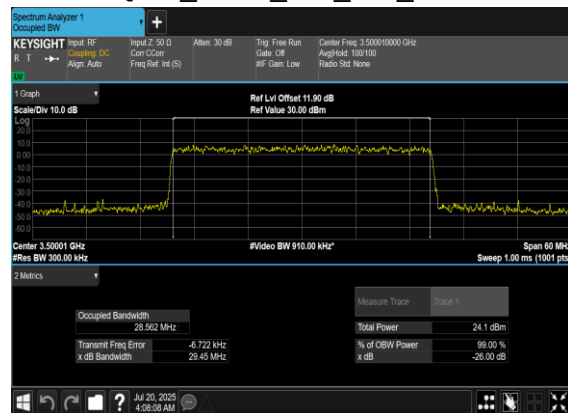
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QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

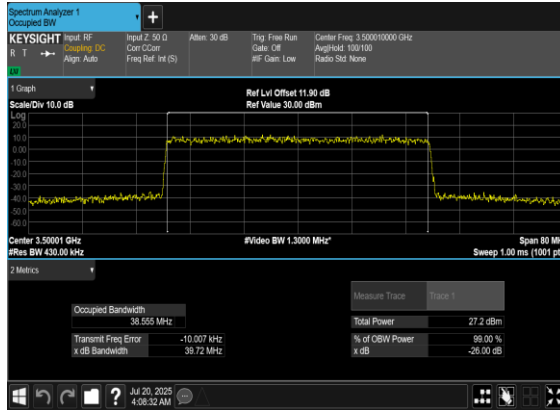


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QAM_Outer_Full_Mid_CH

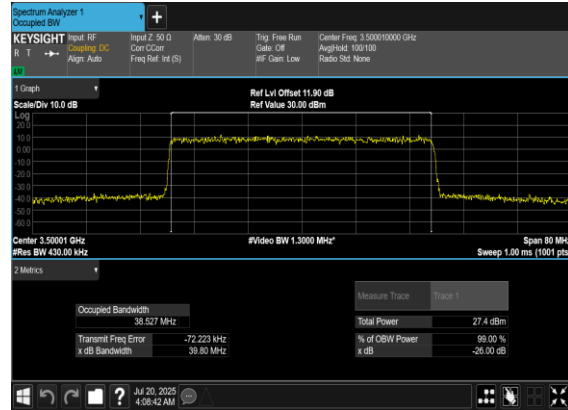




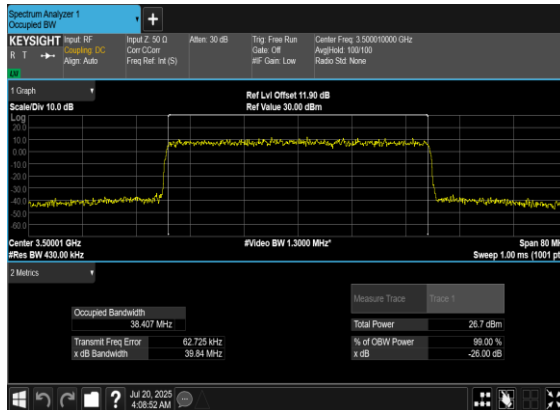
N77(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



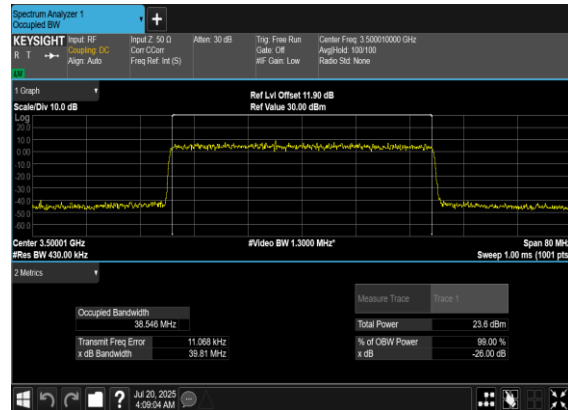
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QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

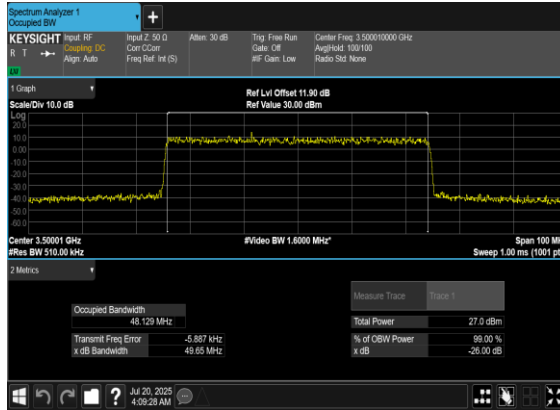


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QAM_Outer_Full_Mid_CH

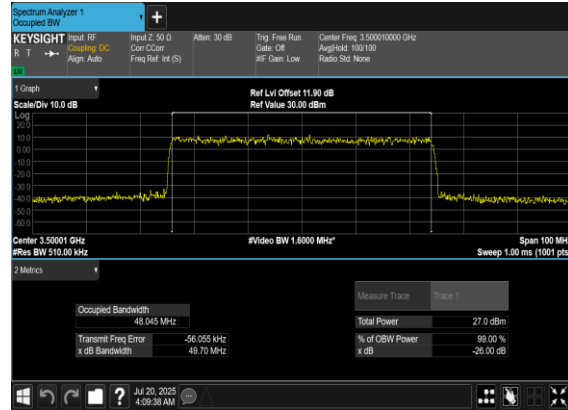




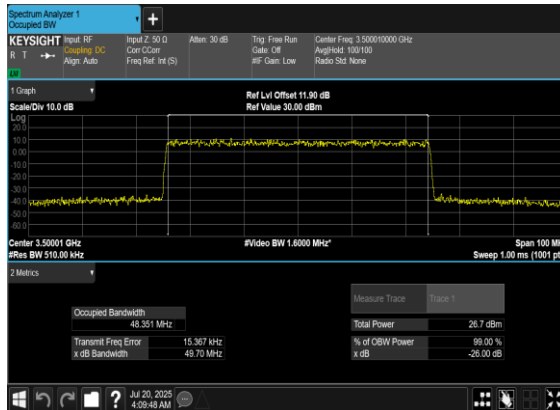
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



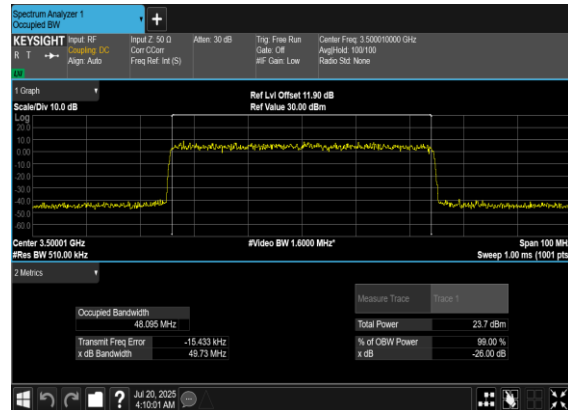
N77(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

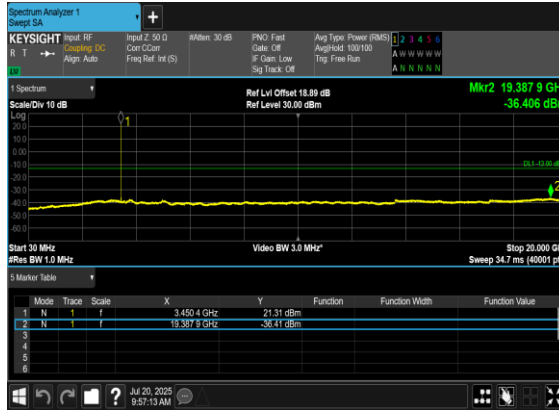
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	---
77	15	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	15	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	636333	3544.995	CP-OFDM QPSK	1@0	see graph	---
77	15	10	636333	3544.995	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	636333	3544.995	CP-OFDM QPSK	1@0	see graph	PASS
77	15	25	630834	3462.51	CP-OFDM QPSK	1@0	see graph	---
77	15	25	630834	3462.51	CP-OFDM QPSK	1@0	see graph	PASS
77	15	25	630834	3462.51	CP-OFDM QPSK	1@0	see graph	PASS
77	15	25	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	15	25	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	25	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	25	635833	3537.495	CP-OFDM QPSK	1@0	see graph	---
77	15	25	635833	3537.495	CP-OFDM QPSK	1@0	see graph	PASS
77	15	25	635833	3537.495	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	---
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	PASS



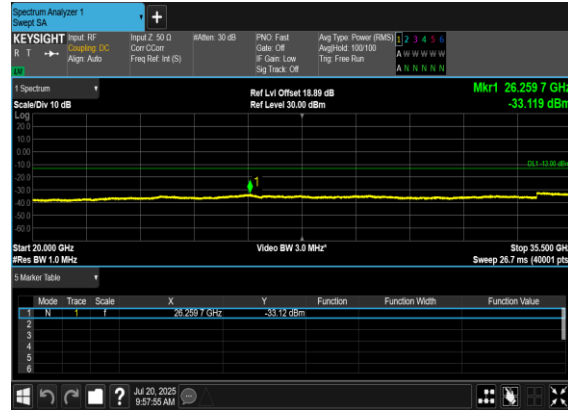
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	---
77	15	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	633334	3500.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	---
77	15	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	1@0	see graph	PASS



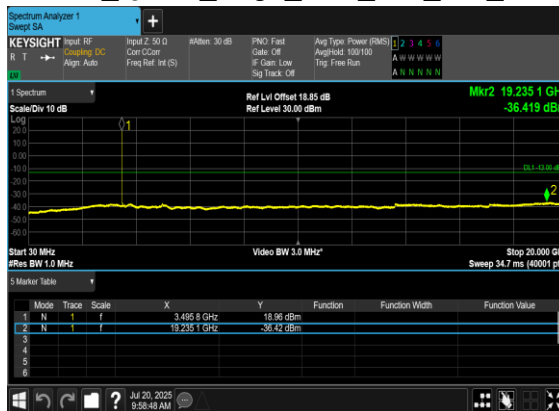
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



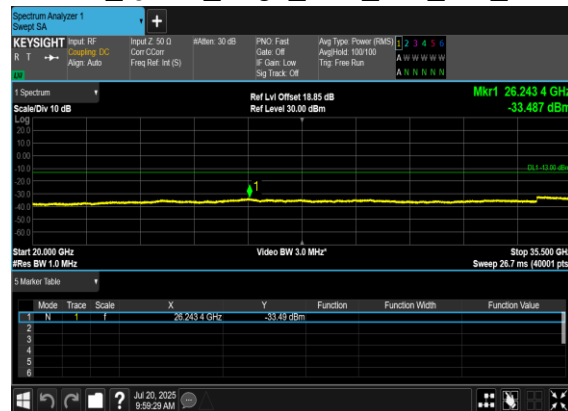
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

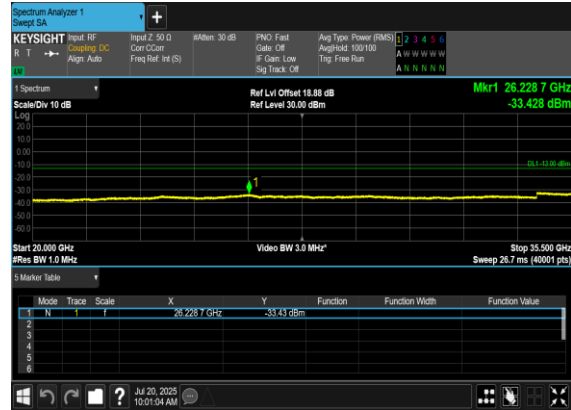




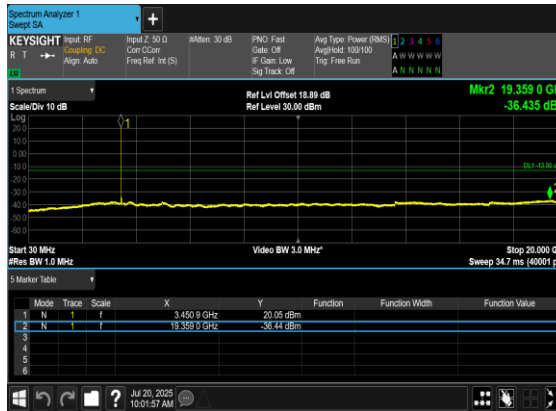
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(25M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

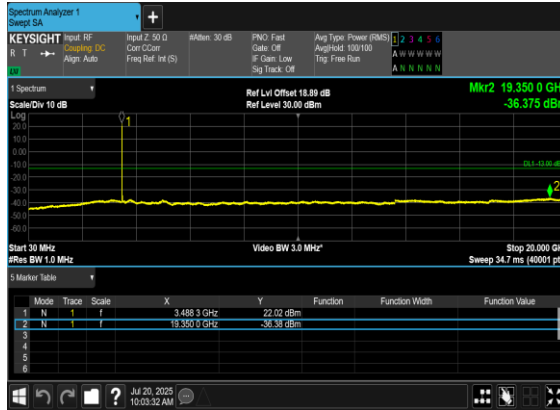


N77(25M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH

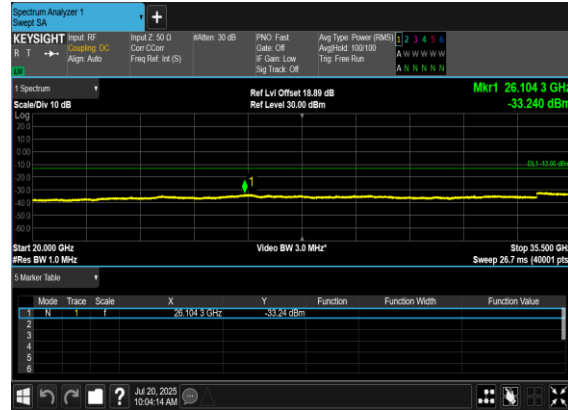




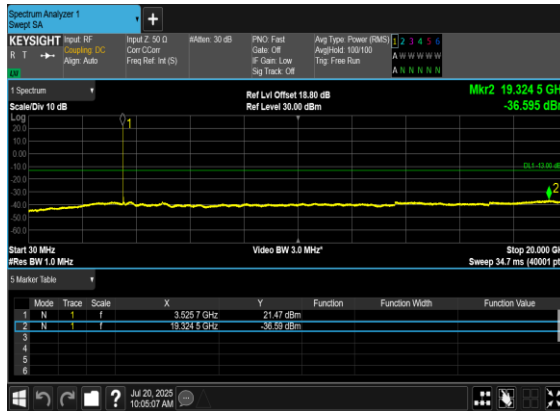
N77(25M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



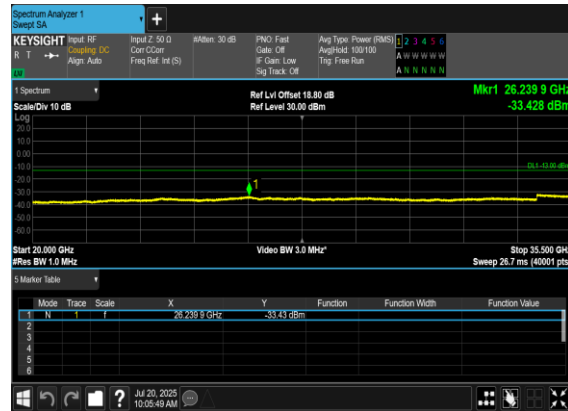
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OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(25M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

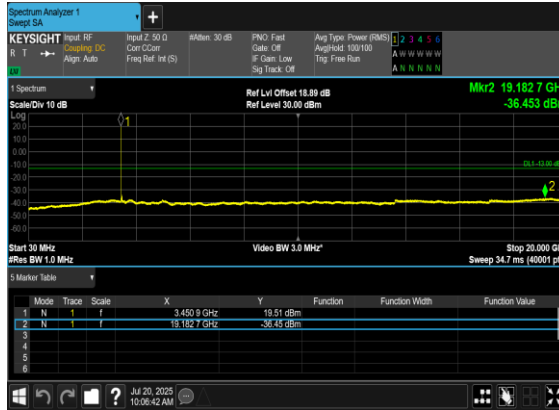


N77(25M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH

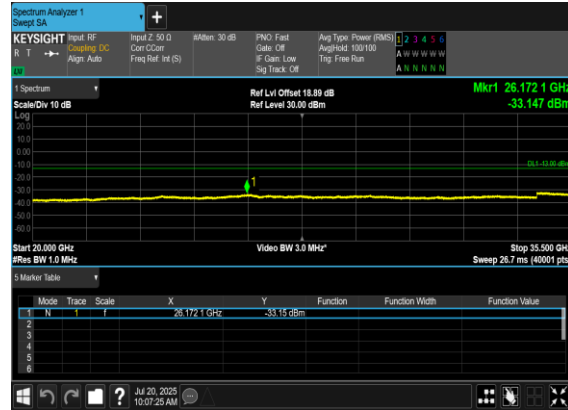




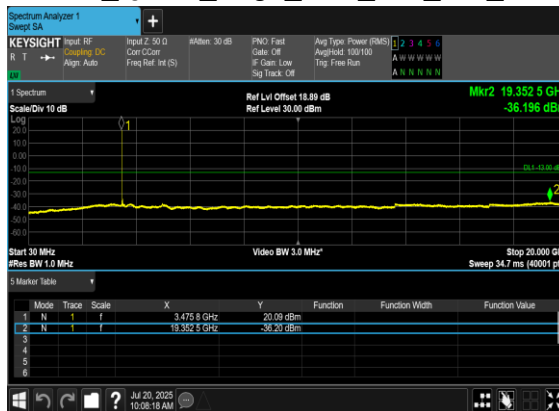
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



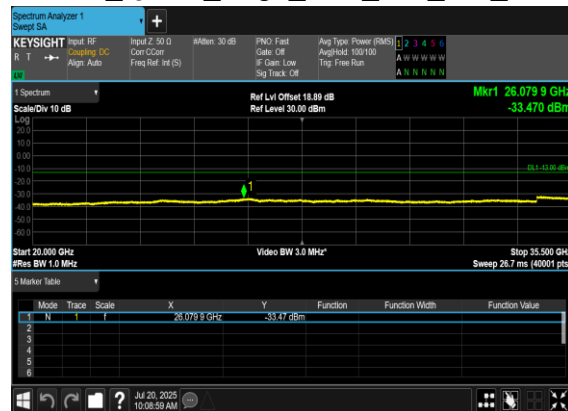
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH





N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



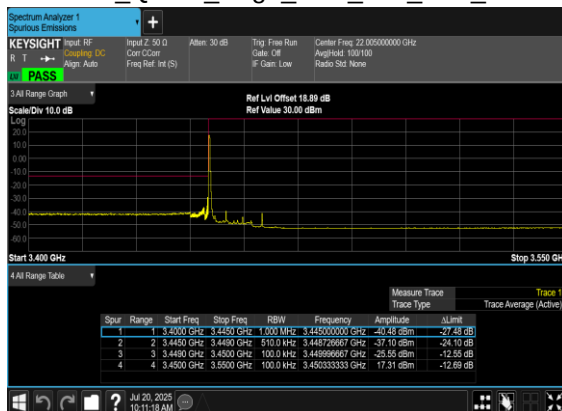


Conducted Band Edge

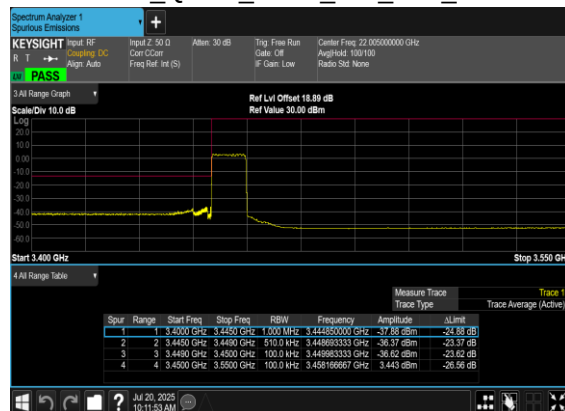
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	10	630334	3455.01	CP-OFDM QPSK	1@0	see graph	PASS
77	15	10	630334	3455.01	CP-OFDM QPSK	52@0	see graph	PASS
77	15	10	636333	3544.995	CP-OFDM QPSK	1@51	see graph	PASS
77	15	10	636333	3544.995	CP-OFDM QPSK	52@0	see graph	PASS
77	15	25	630834	3462.51	CP-OFDM QPSK	1@0	see graph	PASS
77	15	25	630834	3462.51	CP-OFDM QPSK	133@0	see graph	PASS
77	15	25	635833	3537.495	CP-OFDM QPSK	1@132	see graph	PASS
77	15	25	635833	3537.495	CP-OFDM QPSK	133@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	1@0	see graph	PASS
77	15	50	631667	3475.005	CP-OFDM QPSK	270@0	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	1@269	see graph	PASS
77	15	50	635000	3525.0	CP-OFDM QPSK	270@0	see graph	PASS



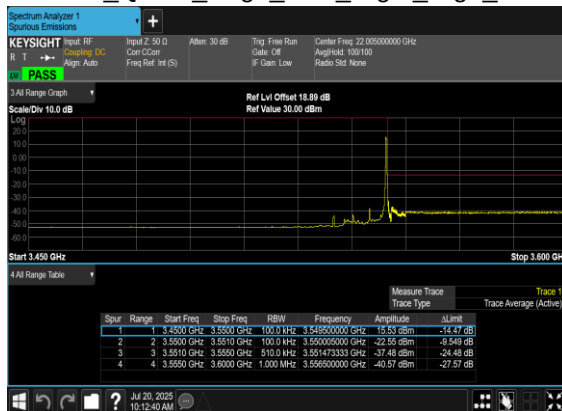
N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



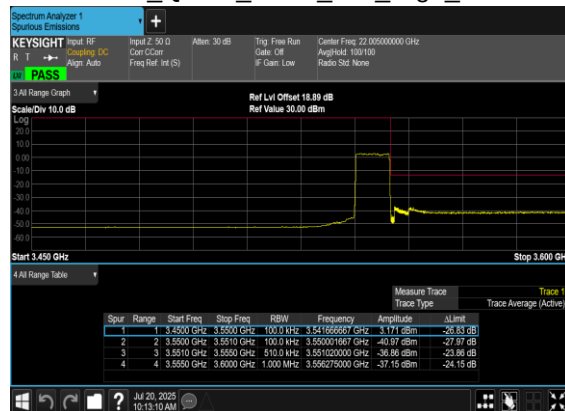
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(10M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

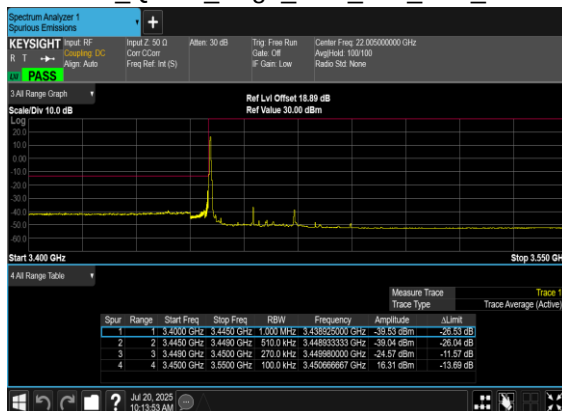


N77(10M)_CP-
OFDM_QPSK_Outer_Full_High_CH

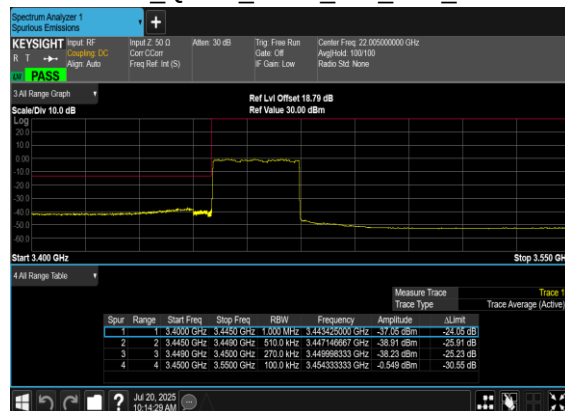




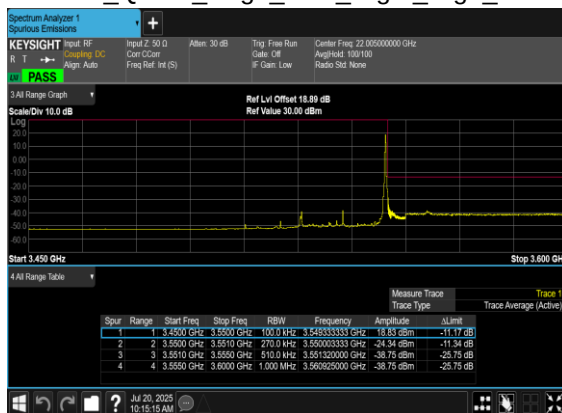
N77(25M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



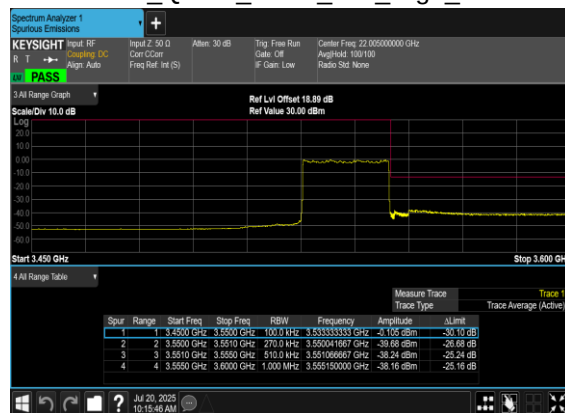
N77(25M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(25M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

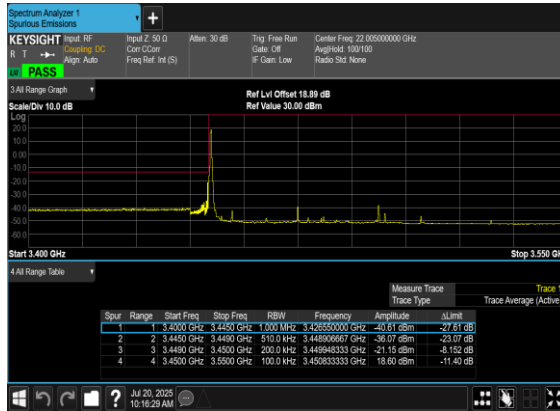


N77(25M)_CP-
OFDM_QPSK_Outer_Full_High_CH

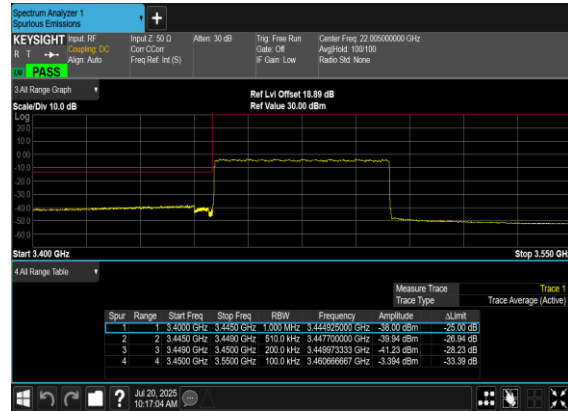




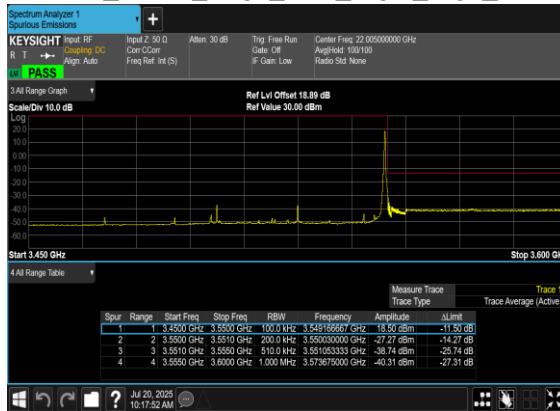
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



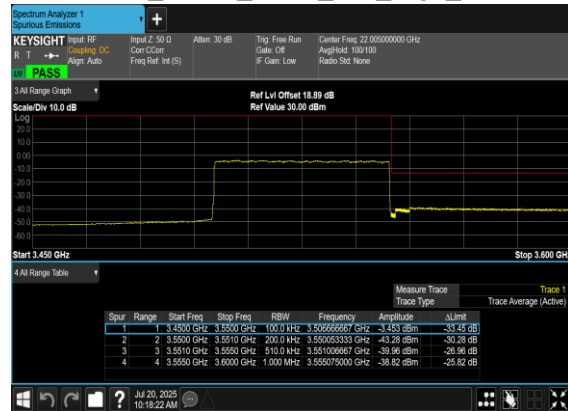
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_CP-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 n77 UL MIMO(Ant 6)-15 kHz

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	9.2	PASS	NV
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	15.4	PASS	LV
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	15.8	PASS	HV
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	10.9	PASS	-30℃
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	18.2	PASS	-20℃
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	8.9	PASS	-10℃
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	9.4	PASS	0℃
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	18	PASS	10℃
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	16.7	PASS	20℃
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	15.2	PASS	30℃
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	19.3	PASS	40℃
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	6.6	PASS	50℃

|MAX(Δf)| = 19.3 Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL - MAX(Δf)	3450.909081	≥ 3450 MHz	PASS
fH + MAX(Δf)	3549.110919	≤ 3550 MHz	

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	8.36	13	PASS

N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

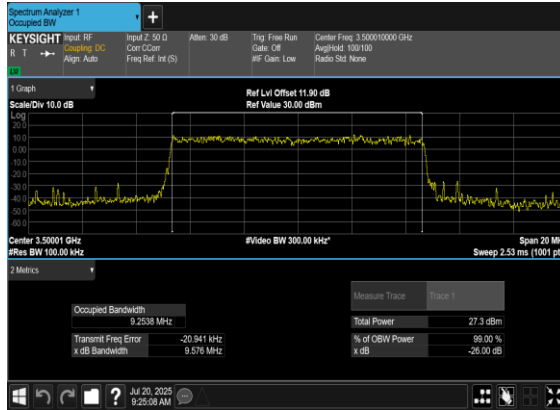
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	15	10	633334	3500.01	CP-OFDM QPSK	52@0	9.2538	9.576
77	15	10	633334	3500.01	CP-OFDM 16 QAM	52@0	9.2512	9.656
77	15	10	633334	3500.01	CP-OFDM 64 QAM	52@0	9.2224	9.632
77	15	10	633334	3500.01	CP-OFDM 256 QAM	52@0	9.2669	9.636
77	15	15	633334	3500.01	CP-OFDM QPSK	79@0	14.106	14.57
77	15	15	633334	3500.01	CP-OFDM 16 QAM	79@0	14.102	14.59
77	15	15	633334	3500.01	CP-OFDM 64 QAM	79@0	14.091	14.6
77	15	15	633334	3500.01	CP-OFDM 256 QAM	79@0	14.08	14.62
77	15	20	633334	3500.01	CP-OFDM QPSK	106@0	18.89	19.53
77	15	20	633334	3500.01	CP-OFDM 16 QAM	106@0	18.97	19.54
77	15	20	633334	3500.01	CP-OFDM 64 QAM	106@0	18.927	19.65
77	15	20	633334	3500.01	CP-OFDM 256 QAM	106@0	18.864	19.53
77	15	25	633334	3500.01	CP-OFDM QPSK	133@0	23.783	24.63
77	15	25	633334	3500.01	CP-OFDM 16 QAM	133@0	23.733	24.57
77	15	25	633334	3500.01	CP-OFDM 64 QAM	133@0	23.645	24.61
77	15	25	633334	3500.01	CP-OFDM 256 QAM	133@0	23.7	24.61
77	15	30	633334	3500.01	CP-OFDM QPSK	160@0	28.594	29.64
77	15	30	633334	3500.01	CP-OFDM 16 QAM	160@0	28.504	29.47
77	15	30	633334	3500.01	CP-OFDM 64 QAM	160@0	28.607	29.6
77	15	30	633334	3500.01	CP-OFDM 256 QAM	160@0	28.486	29.58
77	15	40	633334	3500.01	CP-OFDM QPSK	216@0	38.423	39.82
77	15	40	633334	3500.01	CP-OFDM 16 QAM	216@0	38.517	39.84



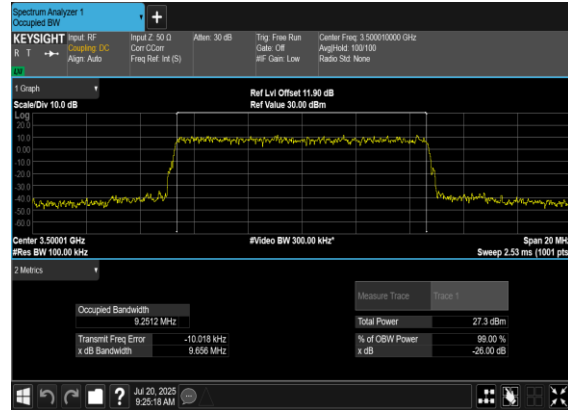
77	15	40	633334	3500.01	CP-OFDM 64 QAM	216@0	38.704	39.79
77	15	40	633334	3500.01	CP-OFDM 256 QAM	216@0	38.594	39.81
77	15	50	633334	3500.01	CP-OFDM QPSK	270@0	48.168	49.7
77	15	50	633334	3500.01	CP-OFDM 16 QAM	270@0	48.131	49.73
77	15	50	633334	3500.01	CP-OFDM 64 QAM	270@0	48.062	49.68
77	15	50	633334	3500.01	CP-OFDM 256 QAM	270@0	48.187	49.69



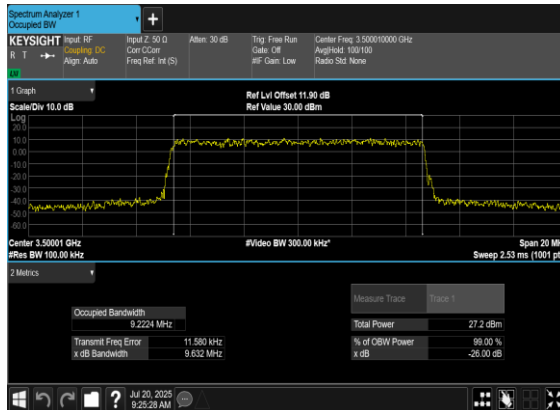
N77(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



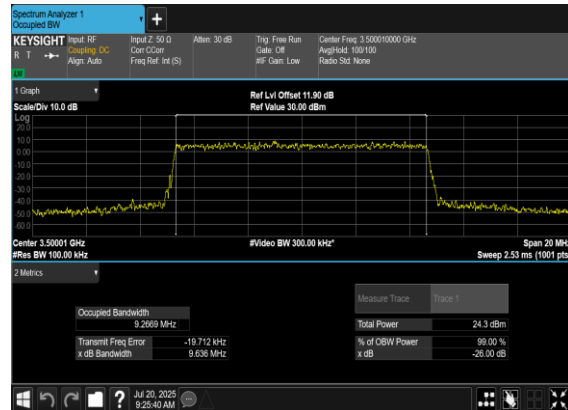
N77(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

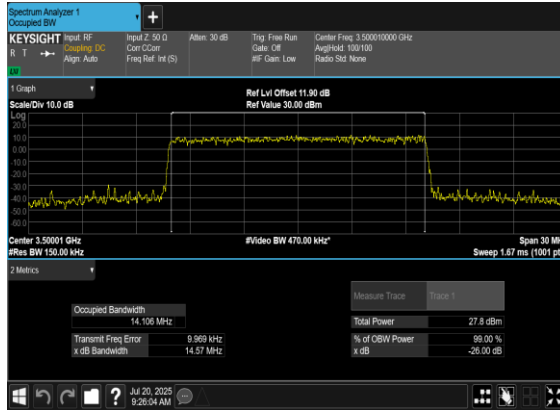


N77(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

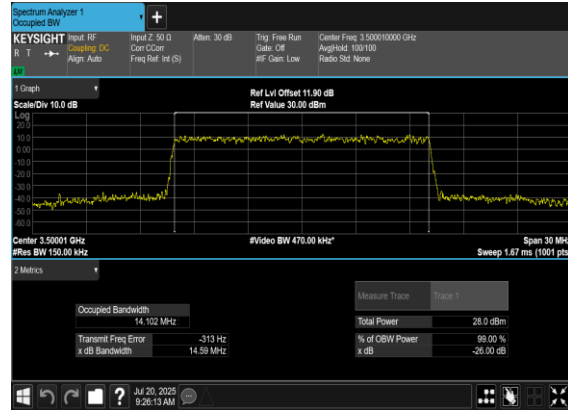




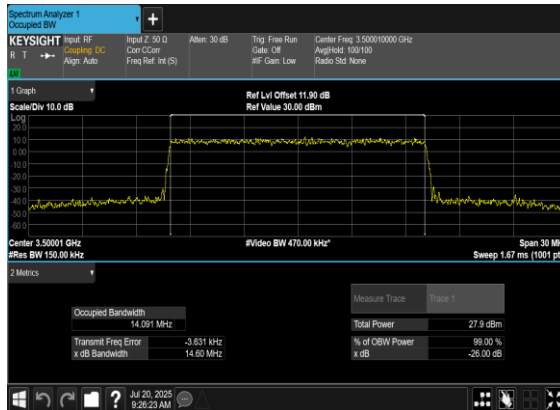
N77(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



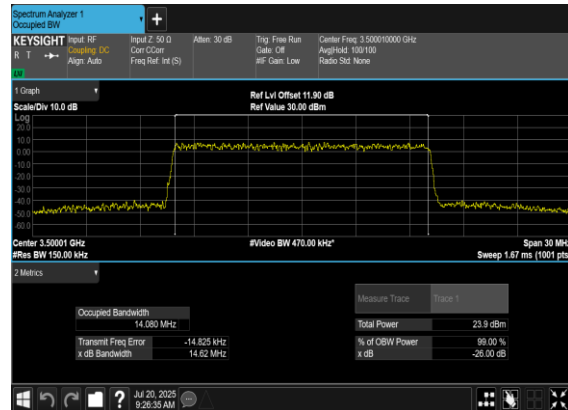
N77(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

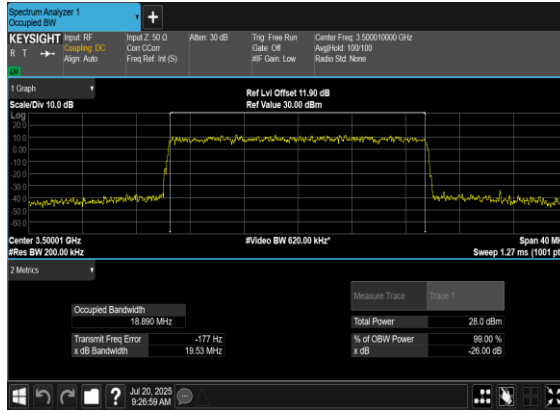


N77(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

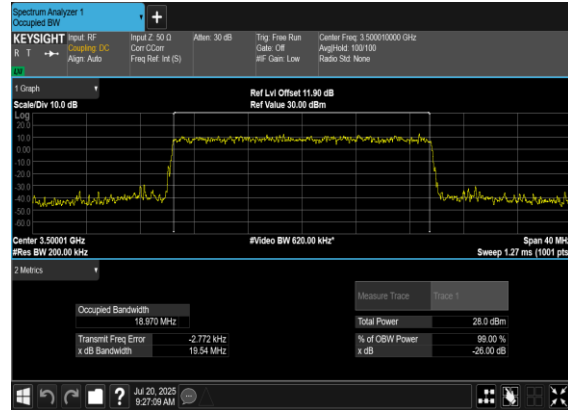




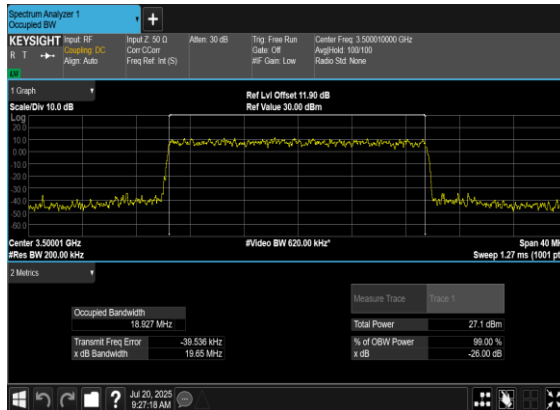
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



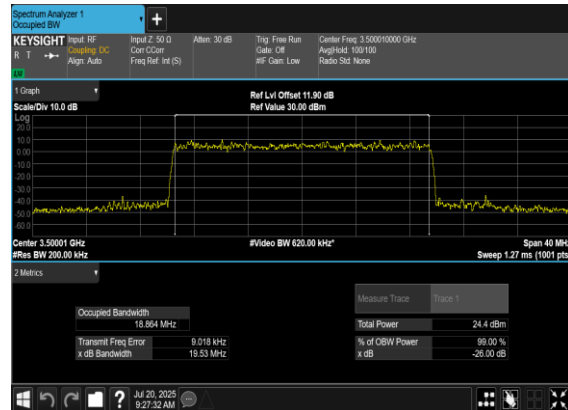
N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

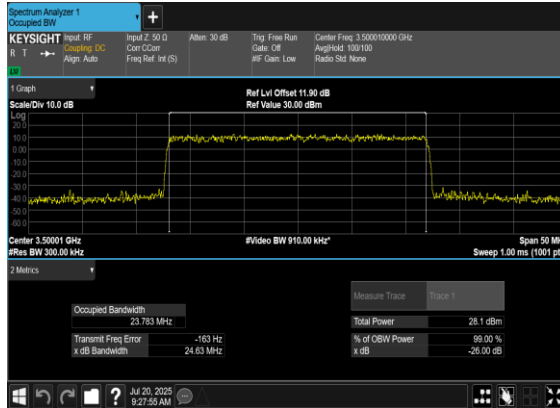


N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

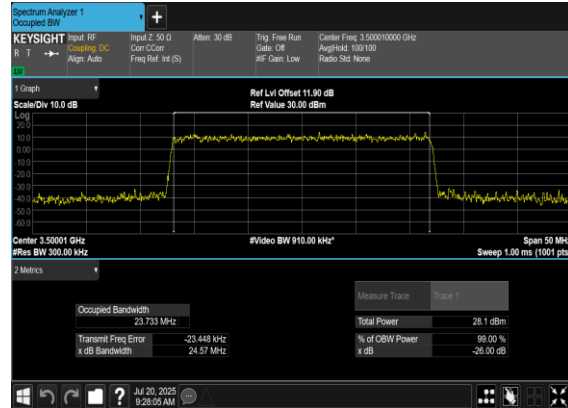




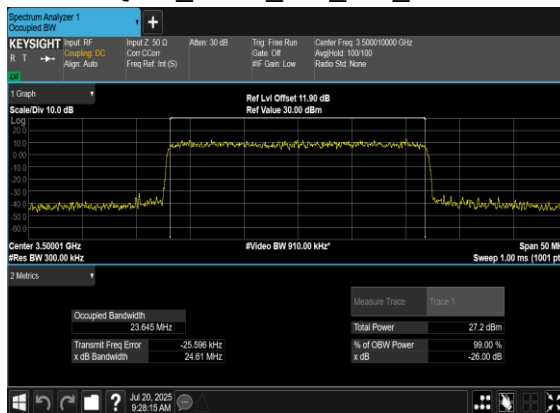
N77(25M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N77(25M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(25M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(25M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

