

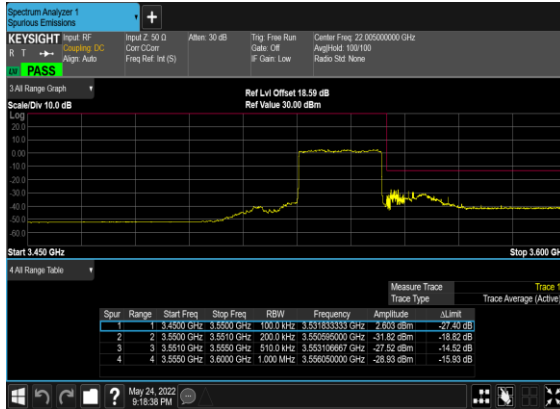
N77(25M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(25M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



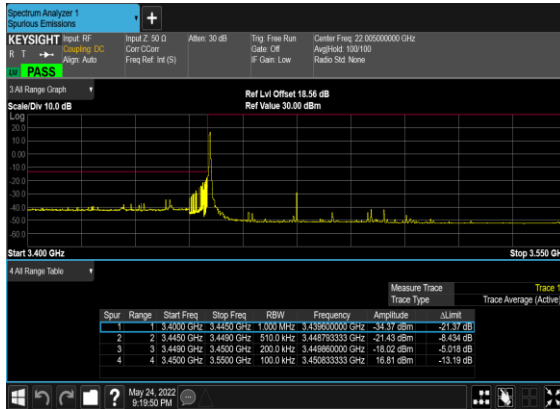
N77(25M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



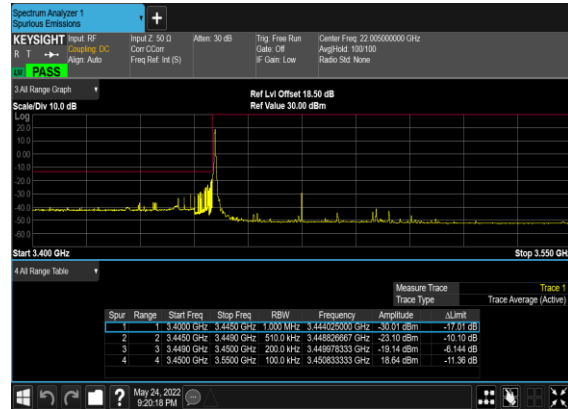
N77(25M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



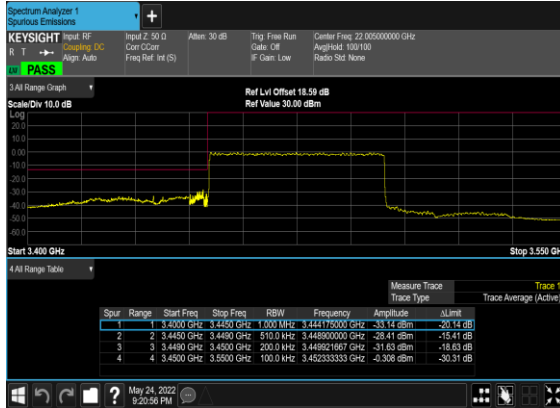
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



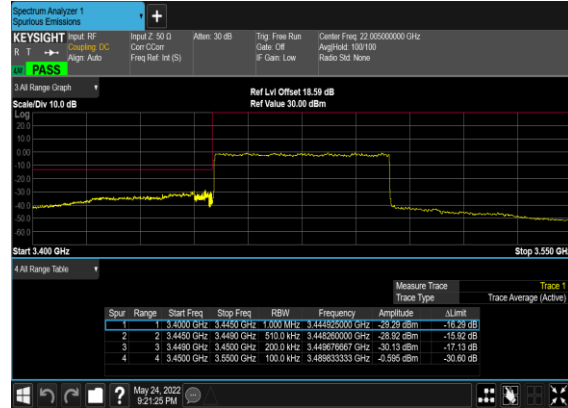
N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



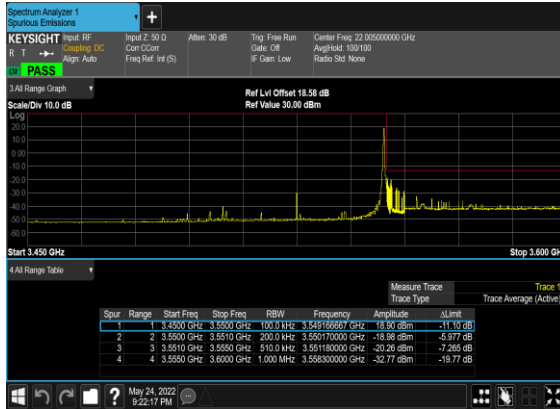
N77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



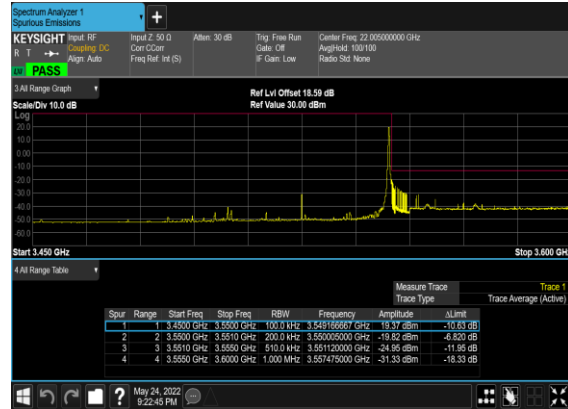
N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



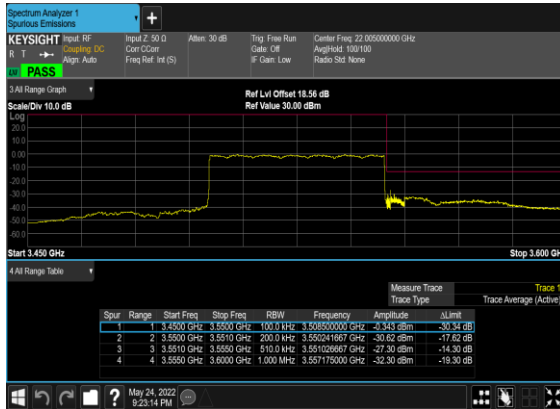
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



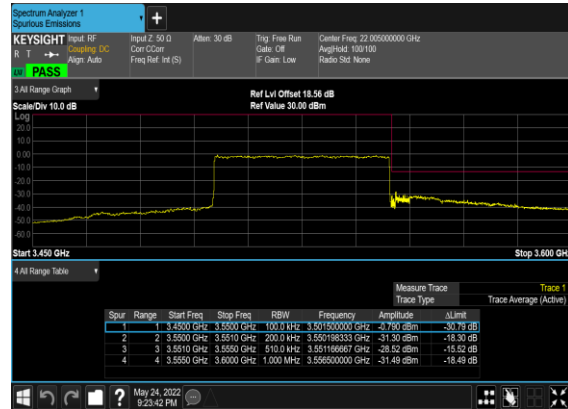
N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



FR1 N77 MIMO-30K(Ant 3+5)

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$) = -4.94dB

MIMO Antenna gain= $10 \log[(10^{\text{Ant.3 gain}/20} + 10^{\text{Ant.5 gain}/20})^2 / 2]$

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT3 Power(dBm)	ANT5 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	12@6	22.14	22.13	25.15	20.21	0.1048
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	22.63	22.69	25.67	20.73	0.1183
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@22	22.61	22.64	25.64	20.70	0.1174
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	22.69	22.74	25.73	20.79	0.1198
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	22.63	22.61	25.63	20.69	0.1172
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	22.67	22.65	25.67	20.73	0.1183
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	21.69	21.64	24.68	19.74	0.0941
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	21.73	21.67	24.71	19.77	0.0949
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	21.71	21.7	24.72	19.78	0.0950
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	12@6	20.2	20.19	23.21	18.27	0.0671
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@1	19.99	20.35	23.18	18.24	0.0667
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@22	20.2	19.97	23.10	18.16	0.0654
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	12@6	20.17	20.18	23.19	18.25	0.0668
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@1	18.06	18.14	21.11	16.17	0.0414
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@22	18.07	18.23	21.16	16.22	0.0419
77	30	10	630334	3455.01	CP-OFDM QPSK	12@6	19.19	19.19	22.20	17.26	0.0532
77	30	10	630334	3455.01	CP-OFDM QPSK	1@1	21.23	21.06	24.16	19.22	0.0835
77	30	10	630334	3455.01	CP-OFDM QPSK	1@22	21.22	21.05	24.15	19.21	0.0833
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	12@6	22.68	22.73	25.72	20.78	0.1195

77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.83	22.97	25.91	20.97	0.1251
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@22	22.77	22.99	25.89	20.95	0.1245
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	22.87	22.92	25.91	20.97	0.1249
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.74	22.89	25.83	20.89	0.1226
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	22.67	22.89	25.79	20.85	0.1217
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	21.92	21.97	24.96	20.02	0.1004
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.7	21.89	24.81	19.87	0.0970
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	21.74	21.83	24.80	19.86	0.0967
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	12@6	20.33	20.46	23.41	18.47	0.0702
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.37	20.51	23.45	18.51	0.0710
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@22	20.28	20.48	23.39	18.45	0.0700
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	12@6	20.39	20.39	23.40	18.46	0.0702
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.35	18.4	21.39	16.45	0.0441
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@22	18.18	18.36	21.28	16.34	0.0431
77	30	10	633334	3500.01	CP-OFDM QPSK	12@6	21.34	21.43	24.40	19.46	0.0882
77	30	10	633334	3500.01	CP-OFDM QPSK	1@1	21.35	21.39	24.38	19.44	0.0879
77	30	10	633334	3500.01	CP-OFDM QPSK	1@22	21.3	21.38	24.35	19.41	0.0873
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	12@6	22.93	23.29	26.12	21.18	0.1313
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@1	22.96	23.18	26.08	21.14	0.1301
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@22	22.85	23.2	26.04	21.10	0.1288
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	23	23.26	26.14	21.20	0.1319
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	22.91	23.22	26.08	21.14	0.1300
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	22.78	23.21	26.01	21.07	0.1280
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	21.91	22.21	25.07	20.13	0.1031

77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	21.99	22.3	25.16	20.22	0.1051
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	21.88	22.19	25.05	20.11	0.1025
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	12@6	20.49	20.7	23.61	18.67	0.0736
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	1@1	20.22	20.87	23.57	18.63	0.0729
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	1@22	20.43	20.88	23.67	18.73	0.0747
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	12@6	20.43	20.8	23.63	18.69	0.0739
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	1@1	18.39	18.65	21.53	16.59	0.0456
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	1@22	18.23	18.59	21.42	16.48	0.0445
77	30	10	636332	3544.98	CP-OFDM QPSK	12@6	19.42	19.7	22.57	17.63	0.0580
77	30	10	636332	3544.98	CP-OFDM QPSK	1@1	21.42	21.69	24.57	19.63	0.0918
77	30	10	636332	3544.98	CP-OFDM QPSK	1@22	21.33	21.57	24.46	19.52	0.0896
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	18@9	22.16	22.26	25.22	20.28	0.1067
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	22.74	22.7	25.73	20.79	0.1200
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@36	22.68	22.74	25.72	20.78	0.1197
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	22.78	22.79	25.80	20.86	0.1218
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	22.63	22.69	25.67	20.73	0.1183
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	22.64	22.68	25.67	20.73	0.1183
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	21.68	21.72	24.71	19.77	0.0948
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	21.7	21.77	24.75	19.81	0.0956
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	21.72	21.81	24.78	19.84	0.0963
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	18@9	20.19	20.19	23.20	18.26	0.0670
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@1	20.29	20.18	23.25	18.31	0.0677
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@36	20.3	20.35	23.34	18.40	0.0691
77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	18@9	20.18	20.19	23.20	18.26	0.0669

77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@1	18.12	18.13	21.14	16.20	0.0416
77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@36	18.02	18.21	21.13	16.19	0.0416
77	30	15	630500	3457.5	CP-OFDM QPSK	19@9	19.2	19.16	22.19	17.25	0.0531
77	30	15	630500	3457.5	CP-OFDM QPSK	1@1	21.37	21.14	24.27	19.33	0.0856
77	30	15	630500	3457.5	CP-OFDM QPSK	1@36	21.26	21.22	24.25	19.31	0.0853
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	18@9	22.89	22.93	25.92	20.98	0.1253
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.89	22.98	25.95	21.01	0.1261
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@36	22.76	22.95	25.87	20.93	0.1238
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	22.86	22.94	25.91	20.97	0.1250
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.84	22.88	25.87	20.93	0.1239
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	22.68	22.95	25.83	20.89	0.1227
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	21.84	21.93	24.90	19.96	0.0990
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.85	22.05	24.96	20.02	0.1005
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	21.81	21.94	24.89	19.95	0.0988
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	18@9	20.39	20.4	23.41	18.47	0.0702
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.43	20.57	23.51	18.57	0.0720
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@36	20.23	20.56	23.41	18.47	0.0703
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	18@9	18.27	18.52	21.41	16.47	0.0443
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.23	18.36	21.31	16.37	0.0433
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@36	18.18	18.42	21.31	16.37	0.0434
77	30	15	633334	3500.01	CP-OFDM QPSK	19@9	19.23	19.38	22.32	17.38	0.0547
77	30	15	633334	3500.01	CP-OFDM QPSK	1@1	21.28	21.4	24.35	19.41	0.0873
77	30	15	633334	3500.01	CP-OFDM QPSK	1@36	21.13	21.38	24.27	19.33	0.0856
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	18@9	22.95	23.23	26.10	21.16	0.1307
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	23	23.21	26.12	21.18	0.1311

77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@36	22.86	23.2	26.04	21.10	0.1289
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	22.95	23.25	26.11	21.17	0.1310
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	22.84	23.06	25.96	21.02	0.1265
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	22.73	23.08	25.92	20.98	0.1253
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	21.94	22.23	25.10	20.16	0.1037
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	22.02	22.16	25.10	20.16	0.1038
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	21.78	22.18	24.99	20.05	0.1013
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	18@9	20.47	20.69	23.59	18.65	0.0733
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@1	20.53	20.68	23.62	18.68	0.0737
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@36	20.24	20.75	23.51	18.57	0.0720
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	18@9	18.42	18.69	21.57	16.63	0.0460
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@1	18.29	18.64	21.48	16.54	0.0451
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@36	18.17	18.65	21.43	16.49	0.0445
77	30	15	636166	3542.49	CP-OFDM QPSK	19@9	19.44	19.67	22.57	17.63	0.0579
77	30	15	636166	3542.49	CP-OFDM QPSK	1@1	21.51	21.65	24.59	19.65	0.0923
77	30	15	636166	3542.49	CP-OFDM QPSK	1@36	21.38	21.71	24.56	19.62	0.0916
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	22.2	22.23	25.23	20.29	0.1068
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	22.72	22.79	25.77	20.83	0.1209
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	22.71	22.68	25.71	20.77	0.1193
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	22.73	22.85	25.80	20.86	0.1219
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	22.69	22.88	25.80	20.86	0.1218
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	22.7	22.75	25.74	20.80	0.1201
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	21.71	21.75	24.74	19.80	0.0955
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	21.95	21.93	24.95	20.01	0.1002

77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	21.89	21.9	24.91	19.97	0.0992
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	20.17	20.18	23.19	18.25	0.0668
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	20.44	20.43	23.45	18.51	0.0709
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	20.43	20.19	23.32	18.38	0.0689
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	18.17	18.22	21.21	16.27	0.0423
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	18.14	18.24	21.20	16.26	0.0423
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	18.15	18.29	21.23	16.29	0.0426
77	30	20	630668	3460.02	CP-OFDM QPSK	25@12	19.19	19.28	22.25	17.31	0.0538
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	21.37	21.2	24.30	19.36	0.0862
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	21.27	21.13	24.21	19.27	0.0845
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	22.86	22.98	25.93	20.99	0.1256
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.9	23.02	25.97	21.03	0.1268
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	22.72	22.96	25.85	20.91	0.1234
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	22.88	22.93	25.92	20.98	0.1252
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.86	22.91	25.90	20.96	0.1246
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	22.69	22.9	25.81	20.87	0.1221
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	21.86	21.92	24.90	19.96	0.0991
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.92	22.14	25.04	20.10	0.1024
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	21.85	22.02	24.95	20.01	0.1001
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	20.31	20.39	23.36	18.42	0.0695
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.15	20.67	23.43	18.49	0.0706
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	20.02	20.53	23.29	18.35	0.0684
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	18.33	18.45	21.40	16.46	0.0443
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.3	18.42	21.37	16.43	0.0440

77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	18.22	18.43	21.34	16.40	0.0436
77	30	20	633334	3500.01	CP-OFDM QPSK	25@12	19.29	19.36	22.34	17.40	0.0549
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	21.43	21.39	24.42	19.48	0.0887
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	21.29	21.39	24.35	19.41	0.0873
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	22.94	23.24	26.10	21.16	0.1307
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	22.93	23.15	26.05	21.11	0.1292
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	22.8	23.19	26.01	21.07	0.1279
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	22.92	23.25	26.10	21.16	0.1306
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	22.93	23.17	26.06	21.12	0.1295
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	22.78	23.2	26.01	21.07	0.1278
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	21.88	22.25	25.08	20.14	0.1033
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	21.86	22.12	25.00	20.06	0.1014
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	21.69	22.18	24.95	20.01	0.1003
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	20.39	20.67	23.54	18.60	0.0725
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	20.52	20.76	23.65	18.71	0.0743
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	20.1	20.46	23.29	18.35	0.0685
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	18.37	18.69	21.54	16.60	0.0457
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	18.3	18.69	21.51	16.57	0.0454
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	18.16	18.65	21.42	16.48	0.0445
77	30	20	636000	3540	CP-OFDM QPSK	25@12	19.36	19.69	22.54	17.60	0.0575
77	30	20	636000	3540	CP-OFDM QPSK	1@1	21.47	21.67	24.58	19.64	0.0921
77	30	20	636000	3540	CP-OFDM QPSK	1@49	21.3	21.63	24.48	19.54	0.0899
77	30	25	630834	3462.51	DFT-s-OFDM PI/2 BPSK	32@16	22.14	22.29	25.23	20.29	0.1068
77	30	25	630834	3462.51	DFT-s-OFDM PI/2 BPSK	1@1	22.69	22.86	25.79	20.85	0.1215
77	30	25	630834	3462.51	DFT-s-OFDM PI/2 BPSK	1@63	22.85	22.89	25.88	20.94	0.1242

77	30	25	630834	3462.51	DFT-s-OFDM QPSK	32@16	22.63	22.78	25.72	20.78	0.1196
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	22.6	22.8	25.71	20.77	0.1194
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@63	22.71	22.72	25.73	20.79	0.1198
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	32@16	21.59	21.59	24.60	19.66	0.0925
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	21.77	21.8	24.80	19.86	0.0967
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@63	21.89	21.96	24.94	20.00	0.0999
77	30	25	630834	3462.51	DFT-s-OFDM 64 QAM	32@16	20.17	20.19	23.19	18.25	0.0668
77	30	25	630834	3462.51	DFT-s-OFDM 64 QAM	1@1	19.95	20.32	23.15	18.21	0.0662
77	30	25	630834	3462.51	DFT-s-OFDM 64 QAM	1@63	20.19	20.08	23.15	18.21	0.0662
77	30	25	630834	3462.51	DFT-s-OFDM 256 QAM	32@16	18.03	18.19	21.12	16.18	0.0415
77	30	25	630834	3462.51	DFT-s-OFDM 256 QAM	1@1	18.46	18.53	21.51	16.57	0.0453
77	30	25	630834	3462.51	DFT-s-OFDM 256 QAM	1@63	18.45	18.59	21.53	16.59	0.0456
77	30	25	630834	3462.51	CP-OFDM QPSK	33@16	19.23	19.26	22.26	17.32	0.0539
77	30	25	630834	3462.51	CP-OFDM QPSK	1@1	21.33	21.32	24.34	19.40	0.0870
77	30	25	630834	3462.51	CP-OFDM QPSK	1@63	21.37	21.38	24.39	19.45	0.0880
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	32@16	22.7	22.88	25.80	20.86	0.1219
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.95	23.02	26.00	21.06	0.1275
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@63	22.81	23.02	25.93	20.99	0.1255
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	32@16	22.69	22.89	25.80	20.86	0.1219
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.85	22.88	25.88	20.94	0.1240
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@63	22.69	22.92	25.82	20.88	0.1224
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	32@16	21.69	21.84	24.78	19.84	0.0963
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.05	22.07	25.07	20.13	0.1030
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@63	21.89	22	24.96	20.02	0.1004

77	30	25	633334	3500.01	DFT-s-OFDM 64 QAM	32@16	20.26	20.4	23.34	18.40	0.0692
77	30	25	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.38	20.54	23.47	18.53	0.0713
77	30	25	633334	3500.01	DFT-s-OFDM 64 QAM	1@63	20.35	20.13	23.25	18.31	0.0678
77	30	25	633334	3500.01	DFT-s-OFDM 256 QAM	32@16	20.16	20.28	23.23	18.29	0.0675
77	30	25	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.63	18.68	21.67	16.73	0.0470
77	30	25	633334	3500.01	DFT-s-OFDM 256 QAM	1@63	18.47	18.66	21.58	16.64	0.0461
77	30	25	633334	3500.01	CP-OFDM QPSK	33@16	21.14	21.32	24.24	19.30	0.0851
77	30	25	633334	3500.01	CP-OFDM QPSK	1@1	21.55	21.48	24.53	19.59	0.0909
77	30	25	633334	3500.01	CP-OFDM QPSK	1@63	21.37	21.53	24.46	19.52	0.0896
77	30	25	635832	3537.48	DFT-s-OFDM PI/2 BPSK	32@16	22.86	23.02	25.95	21.01	0.1262
77	30	25	635832	3537.48	DFT-s-OFDM PI/2 BPSK	1@1	22.96	23.17	26.08	21.14	0.1299
77	30	25	635832	3537.48	DFT-s-OFDM PI/2 BPSK	1@63	22.77	23.2	26.00	21.06	0.1277
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	32@16	22.81	22.98	25.91	20.97	0.1249
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	22.88	23.04	25.97	21.03	0.1268
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@63	22.7	23	25.86	20.92	0.1237
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	32@16	21.72	21.9	24.82	19.88	0.0973
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	21.94	22.13	25.05	20.11	0.1025
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@63	21.77	22.15	24.97	20.03	0.1008
77	30	25	635832	3537.48	DFT-s-OFDM 64 QAM	32@16	20.28	20.56	23.43	18.49	0.0707
77	30	25	635832	3537.48	DFT-s-OFDM 64 QAM	1@1	20.1	20.44	23.28	18.34	0.0683
77	30	25	635832	3537.48	DFT-s-OFDM 64 QAM	1@63	20.35	20.6	23.49	18.55	0.0716
77	30	25	635832	3537.48	DFT-s-OFDM 256 QAM	32@16	18.22	18.55	21.40	16.46	0.0442
77	30	25	635832	3537.48	DFT-s-OFDM 256 QAM	1@1	18.63	18.86	21.76	16.82	0.0480
77	30	25	635832	3537.48	DFT-s-OFDM 256 QAM	1@63	18.57	18.84	21.72	16.78	0.0476

77	30	25	635832	3537.48	CP-OFDM QPSK	33@16	19.33	19.58	22.47	17.53	0.0566
77	30	25	635832	3537.48	CP-OFDM QPSK	1@1	21.46	21.58	24.53	19.59	0.0910
77	30	25	635832	3537.48	CP-OFDM QPSK	1@63	21.36	21.54	24.46	19.52	0.0896
77	30	30	631000	3465	DFT-s- OFDM PI/2 BPSK	36@18	22.2	22.26	25.24	20.30	0.1072
77	30	30	631000	3465	DFT-s- OFDM PI/2 BPSK	1@1	22.75	22.78	25.78	20.84	0.1212
77	30	30	631000	3465	DFT-s- OFDM PI/2 BPSK	1@76	22.8	22.82	25.82	20.88	0.1225
77	30	30	631000	3465	DFT-s- OFDM QPSK	36@18	22.76	22.85	25.82	20.88	0.1223
77	30	30	631000	3465	DFT-s- OFDM QPSK	1@1	22.64	22.75	25.71	20.77	0.1193
77	30	30	631000	3465	DFT-s- OFDM QPSK	1@76	22.73	22.67	25.71	20.77	0.1194
77	30	30	631000	3465	DFT-s- OFDM 16 QAM	36@18	21.7	21.76	24.74	19.80	0.0955
77	30	30	631000	3465	DFT-s- OFDM 16 QAM	1@1	21.73	21.74	24.75	19.81	0.0956
77	30	30	631000	3465	DFT-s- OFDM 16 QAM	1@76	21.82	21.91	24.88	19.94	0.0985
77	30	30	631000	3465	DFT-s- OFDM 64 QAM	36@18	20.21	20.31	23.27	18.33	0.0681
77	30	30	631000	3465	DFT-s- OFDM 64 QAM	1@1	20.34	20.22	23.29	18.35	0.0684
77	30	30	631000	3465	DFT-s- OFDM 64 QAM	1@76	20.38	20.16	23.28	18.34	0.0683
77	30	30	631000	3465	DFT-s- OFDM 256 QAM	36@18	20.14	20.32	23.24	18.30	0.0676
77	30	30	631000	3465	DFT-s- OFDM 256 QAM	1@1	18.15	18.29	21.23	16.29	0.0426
77	30	30	631000	3465	DFT-s- OFDM 256 QAM	1@76	18.25	18.28	21.28	16.34	0.0430
77	30	30	631000	3465	CP-OFDM QPSK	39@19	19.21	19.31	22.27	17.33	0.0541
77	30	30	631000	3465	CP-OFDM QPSK	1@1	21.36	21.24	24.31	19.37	0.0865
77	30	30	631000	3465	CP-OFDM QPSK	1@76	21.35	21.37	24.37	19.43	0.0877
77	30	30	633334	3500.01	DFT-s- OFDM PI/2 BPSK	36@18	22.84	23.01	25.94	21.00	0.1258
77	30	30	633334	3500.01	DFT-s- OFDM PI/2 BPSK	1@1	22.93	23.02	25.99	21.05	0.1272
77	30	30	633334	3500.01	DFT-s- OFDM PI/2 BPSK	1@76	22.7	22.97	25.85	20.91	0.1232
77	30	30	633334	3500.01	DFT-s- OFDM QPSK	36@18	22.82	22.94	25.89	20.95	0.1245

77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.85	22.97	25.92	20.98	0.1253
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	22.7	22.89	25.81	20.87	0.1221
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	21.81	22	24.92	19.98	0.0995
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.99	22.02	25.02	20.08	0.1017
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	21.77	21.94	24.87	19.93	0.0983
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	20.36	20.55	23.47	18.53	0.0712
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.58	20.36	23.48	18.54	0.0715
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	20.29	20.56	23.44	18.50	0.0708
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	18.29	18.45	21.38	16.44	0.0441
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.45	18.47	21.47	16.53	0.0450
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	18.22	18.42	21.33	16.39	0.0436
77	30	30	633334	3500.01	CP-OFDM QPSK	39@19	19.34	19.52	22.44	17.50	0.0563
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	21.43	21.44	24.45	19.51	0.0892
77	30	30	633334	3500.01	CP-OFDM QPSK	1@76	21.25	21.39	24.33	19.39	0.0869
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	22.89	23.17	26.04	21.10	0.1289
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	22.94	23.18	26.07	21.13	0.1298
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	22.85	23.11	25.99	21.05	0.1274
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	22.87	23.11	26.00	21.06	0.1277
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	22.92	23.11	26.03	21.09	0.1284
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	22.69	23.07	25.89	20.95	0.1246
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	21.82	22.13	24.99	20.05	0.1011
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	21.79	22.07	24.94	20.00	0.1001
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	21.7	22	24.86	19.92	0.0982
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	20.44	20.66	23.56	18.62	0.0728

77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	20.59	20.89	23.75	18.81	0.0761
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	20.41	20.74	23.59	18.65	0.0733
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	20.42	20.63	23.54	18.60	0.0724
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	18.33	18.7	21.53	16.59	0.0456
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	18.23	18.57	21.41	16.47	0.0444
77	30	30	635666	3534.99	CP-OFDM QPSK	39@19	19.39	19.61	22.51	17.57	0.0572
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	21.4	21.67	24.55	19.61	0.0914
77	30	30	635666	3534.99	CP-OFDM QPSK	1@76	21.27	21.54	24.42	19.48	0.0887
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	22.2	22.4	25.31	20.37	0.1089
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	22.74	22.85	25.81	20.87	0.1221
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	22.9	22.81	25.87	20.93	0.1238
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	22.82	22.84	25.84	20.90	0.1230
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	22.76	22.74	25.76	20.82	0.1208
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	22.8	22.75	25.79	20.85	0.1215
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	21.76	21.85	24.82	19.88	0.0972
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	21.79	21.95	24.88	19.94	0.0987
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	21.88	21.89	24.90	19.96	0.0990
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	20.26	20.38	23.33	18.39	0.0690
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	20.28	20.53	23.42	18.48	0.0704
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	20.44	20.34	23.40	18.46	0.0702
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	18.2	18.26	21.24	16.30	0.0427
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	18.24	18.37	21.32	16.38	0.0434
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	18.31	18.38	21.36	16.42	0.0438
77	30	40	631334	3470.01	CP-OFDM QPSK	53@26	19.22	19.4	22.32	17.38	0.0547
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	21.4	21.23	24.33	19.39	0.0868

77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	21.39	21.34	24.38	19.44	0.0878
77	30	40	633334	3500.01	DFT-s- OFDM PI/2 BPSK	50@25	22.84	23.01	25.94	21.00	0.1258
77	30	40	633334	3500.01	DFT-s- OFDM PI/2 BPSK	1@1	22.93	23.02	25.99	21.05	0.1272
77	30	40	633334	3500.01	DFT-s- OFDM PI/2 BPSK	1@104	22.8	22.97	25.90	20.96	0.1246
77	30	40	633334	3500.01	DFT-s- OFDM QPSK	50@25	22.83	22.95	25.90	20.96	0.1248
77	30	40	633334	3500.01	DFT-s- OFDM QPSK	1@1	22.86	23.05	25.97	21.03	0.1267
77	30	40	633334	3500.01	DFT-s- OFDM QPSK	1@104	22.73	22.95	25.85	20.91	0.1234
77	30	40	633334	3500.01	DFT-s- OFDM 16 QAM	50@25	21.86	21.95	24.92	19.98	0.0994
77	30	40	633334	3500.01	DFT-s- OFDM 16 QAM	1@1	22.02	22.2	25.12	20.18	0.1043
77	30	40	633334	3500.01	DFT-s- OFDM 16 QAM	1@104	21.99	22.11	25.06	20.12	0.1028
77	30	40	633334	3500.01	DFT-s- OFDM 64 QAM	50@25	20.33	20.39	23.37	18.43	0.0697
77	30	40	633334	3500.01	DFT-s- OFDM 64 QAM	1@1	20.52	20.72	23.63	18.69	0.0740
77	30	40	633334	3500.01	DFT-s- OFDM 64 QAM	1@104	20.08	20.59	23.35	18.41	0.0694
77	30	40	633334	3500.01	DFT-s- OFDM 256 QAM	50@25	18.21	18.38	21.31	16.37	0.0433
77	30	40	633334	3500.01	DFT-s- OFDM 256 QAM	1@1	18.44	18.54	21.50	16.56	0.0453
77	30	40	633334	3500.01	DFT-s- OFDM 256 QAM	1@104	18.37	18.46	21.43	16.49	0.0445
77	30	40	633334	3500.01	CP-OFDM QPSK	53@26	19.32	19.46	22.40	17.46	0.0557
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	21.31	21.51	24.42	19.48	0.0887
77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	21.21	21.43	24.33	19.39	0.0869
77	30	40	635332	3529.98	DFT-s- OFDM PI/2 BPSK	50@25	22.84	23.12	25.99	21.05	0.1274
77	30	40	635332	3529.98	DFT-s- OFDM PI/2 BPSK	1@1	22.96	23.21	26.10	21.16	0.1305
77	30	40	635332	3529.98	DFT-s- OFDM PI/2 BPSK	1@104	22.8	23.16	25.99	21.05	0.1275
77	30	40	635332	3529.98	DFT-s- OFDM QPSK	50@25	22.86	23.08	25.98	21.04	0.1271
77	30	40	635332	3529.98	DFT-s- OFDM QPSK	1@1	22.85	23.09	25.98	21.04	0.1271
77	30	40	635332	3529.98	DFT-s- OFDM	1@104	22.75	23.04	25.91	20.97	0.1250

QPSK											
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	21.82	22.07	24.96	20.02	0.1004
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	21.99	22.43	25.23	20.29	0.1068
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	21.94	22.17	25.07	20.13	0.1030
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	20.39	20.55	23.48	18.54	0.0715
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	20.53	20.48	23.52	18.58	0.0720
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	20.13	20.71	23.44	18.50	0.0708
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	18.38	18.6	21.50	16.56	0.0453
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	18.39	18.73	21.57	16.63	0.0461
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	18.29	18.59	21.45	16.51	0.0448
77	30	40	635332	3529.98	CP-OFDM QPSK	53@26	19.34	19.61	22.49	17.55	0.0569
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	21.4	21.63	24.53	19.59	0.0909
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	21.23	21.52	24.39	19.45	0.0881
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	22.26	22.32	25.30	20.36	0.1087
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	22.72	22.8	25.77	20.83	0.1211
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	22.79	22.82	25.82	20.88	0.1223
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	22.81	22.92	25.88	20.94	0.1240
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	22.68	22.74	25.72	20.78	0.1197
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	22.68	22.72	25.71	20.77	0.1194
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	21.78	21.93	24.87	19.93	0.0983
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	21.78	21.82	24.81	19.87	0.0971
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	21.78	21.79	24.80	19.86	0.0967
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	20.31	20.4	23.37	18.43	0.0696
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	20.34	20.41	23.39	18.45	0.0699
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	20.3	20.27	23.30	18.36	0.0685

QAM											
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	20.28	20.42	23.36	18.42	0.0695
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	18.22	18.23	21.24	16.30	0.0426
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	18.17	18.23	21.21	16.27	0.0424
77	30	50	631668	3475.02	CP-OFDM QPSK	67@33	19.25	19.34	22.31	17.37	0.0545
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	21.24	21.17	24.22	19.28	0.0846
77	30	50	631668	3475.02	CP-OFDM QPSK	1@131	21.22	21.21	24.23	19.29	0.0848
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	22.81	23.05	25.94	21.00	0.1259
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.87	22.91	25.90	20.96	0.1247
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	22.67	22.91	25.80	20.86	0.1220
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	22.83	22.94	25.90	20.96	0.1246
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.82	22.96	25.90	20.96	0.1248
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	22.66	22.87	25.78	20.84	0.1212
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	21.85	21.96	24.92	19.98	0.0994
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.87	22.07	24.98	20.04	0.1010
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	21.61	21.89	24.76	19.82	0.0960
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	20.32	20.41	23.38	18.44	0.0698
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.37	20.59	23.49	18.55	0.0716
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	20.31	20.45	23.39	18.45	0.0700
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	18.31	18.48	21.41	16.47	0.0443
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.23	18.37	21.31	16.37	0.0434
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	18.09	18.29	21.20	16.26	0.0423
77	30	50	633334	3500.01	CP-OFDM QPSK	67@33	19.3	19.48	22.40	17.46	0.0557
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	21.37	21.4	24.40	19.46	0.0882
77	30	50	633334	3500.01	CP-OFDM QPSK	1@131	21.16	21.33	24.26	19.32	0.0854

77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	22.93	23.04	26.00	21.06	0.1275
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	22.93	23.15	26.05	21.11	0.1292
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	22.64	22.96	25.81	20.87	0.1223
77	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	22.87	22.96	25.93	20.99	0.1255
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	22.82	23.05	25.95	21.01	0.1261
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	22.71	22.94	25.84	20.90	0.1229
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	21.84	22.02	24.94	20.00	0.1000
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	21.92	22.16	25.05	20.11	0.1026
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	21.75	22.06	24.92	19.98	0.0995
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	20.41	20.49	23.46	18.52	0.0711
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	20.54	20.66	23.61	18.67	0.0736
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	20.32	20.53	23.44	18.50	0.0707
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	18.26	18.49	21.39	16.45	0.0441
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	18.31	18.47	21.40	16.46	0.0443
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	18.17	18.47	21.33	16.39	0.0436
77	30	50	635000	3525	CP-OFDM QPSK	67@33	19.36	19.42	22.40	17.46	0.0557
77	30	50	635000	3525	CP-OFDM QPSK	1@1	21.41	21.53	24.48	19.54	0.0900
77	30	50	635000	3525	CP-OFDM QPSK	1@131	21.16	21.38	24.28	19.34	0.0859
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	22.22	22.45	25.35	20.41	0.1098
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	22.72	22.84	25.79	20.85	0.1216
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	22.59	22.79	25.70	20.76	0.1192
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	22.8	22.94	25.88	20.94	0.1242
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	22.62	22.82	25.73	20.79	0.1200
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	22.58	22.78	25.69	20.75	0.1189

77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	21.82	21.88	24.86	19.92	0.0982
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	21.7	21.89	24.81	19.87	0.0970
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	21.63	21.87	24.76	19.82	0.0960
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	20.32	20.5	23.42	18.48	0.0705
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	20.15	20.44	23.31	18.37	0.0687
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	20.2	20.42	23.32	18.38	0.0689
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	18.23	18.45	21.35	16.41	0.0438
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	18.12	18.2	21.17	16.23	0.0420
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	18.04	18.22	21.14	16.20	0.0417
77	30	60	632000	3480	CP-OFDM QPSK	81@40	19.23	19.53	22.39	17.45	0.0556
77	30	60	632000	3480	CP-OFDM QPSK	1@1	21.28	21.22	24.26	19.32	0.0855
77	30	60	632000	3480	CP-OFDM QPSK	1@160	21.11	21.19	24.16	19.22	0.0836
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	22.83	22.98	25.92	20.98	0.1252
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.76	23	25.89	20.95	0.1245
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	22.79	22.82	25.82	20.88	0.1223
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	22.88	22.99	25.95	21.01	0.1261
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.72	22.94	25.84	20.90	0.1231
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	22.65	22.8	25.74	20.80	0.1201
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	21.87	21.91	24.90	19.96	0.0991
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.79	22.07	24.94	20.00	0.1001
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	21.77	21.81	24.80	19.86	0.0968
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	20.32	20.47	23.41	18.47	0.0702
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.23	20.57	23.41	18.47	0.0704
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	20.35	20.42	23.40	18.46	0.0701

77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	18.29	18.53	21.42	16.48	0.0445
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.25	18.37	21.32	16.38	0.0435
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	18.11	18.24	21.19	16.25	0.0421
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	21.28	21.46	24.38	19.44	0.0879
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	21.38	21.39	24.40	19.46	0.0882
77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	21.26	21.32	24.30	19.36	0.0863
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	22.74	23.07	25.92	20.98	0.1253
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	22.89	23.07	25.99	21.05	0.1274
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	22.63	22.97	25.81	20.87	0.1223
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	22.85	23.01	25.94	21.00	0.1259
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	22.86	22.97	25.93	20.99	0.1255
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	22.57	22.89	25.74	20.80	0.1203
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	21.84	22.04	24.95	20.01	0.1003
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	21.95	22.05	25.01	20.07	0.1016
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	21.65	21.94	24.81	19.87	0.0970
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	20.39	20.59	23.50	18.56	0.0718
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	20.5	20.4	23.46	18.52	0.0711
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	20.2	20.55	23.39	18.45	0.0700
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	18.31	18.51	21.42	16.48	0.0445
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	18.35	18.45	21.41	16.47	0.0444
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	18.05	18.38	21.23	16.29	0.0425
77	30	60	634666	3519.99	CP-OFDM QPSK	81@40	19.38	19.53	22.47	17.53	0.0566
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	21.43	21.5	24.48	19.54	0.0899
77	30	60	634666	3519.99	CP-OFDM QPSK	1@160	21.08	21.42	24.26	19.32	0.0856
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	90@45	22.3	22.44	25.38	20.44	0.1107

77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	22.73	22.89	25.82	20.88	0.1225
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@187	22.67	22.89	25.79	20.85	0.1217
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	22.92	22.87	25.91	20.97	0.1249
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	22.71	22.81	25.77	20.83	0.1211
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	22.65	22.73	25.70	20.76	0.1191
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	21.9	21.89	24.91	19.97	0.0992
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	21.81	21.89	24.86	19.92	0.0982
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	21.74	21.87	24.82	19.88	0.0972
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	90@45	20.35	20.42	23.40	18.46	0.0701
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@1	19.99	20.44	23.23	18.29	0.0675
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@187	19.9	20.37	23.15	18.21	0.0662
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	90@45	18.37	18.31	21.35	16.41	0.0438
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@1	18.15	18.19	21.18	16.24	0.0421
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@187	18.13	18.2	21.18	16.24	0.0420
77	30	70	632334	3485.01	CP-OFDM QPSK	95@47	19.32	19.33	22.34	17.40	0.0549
77	30	70	632334	3485.01	CP-OFDM QPSK	1@1	21.31	21.3	24.32	19.38	0.0866
77	30	70	632334	3485.01	CP-OFDM QPSK	1@187	21.23	21.26	24.26	19.32	0.0854
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	90@45	22.87	22.99	25.94	21.00	0.1259
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.83	22.9	25.88	20.94	0.1240
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@187	22.73	22.87	25.81	20.87	0.1222
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	22.88	22.94	25.92	20.98	0.1253
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.77	22.86	25.83	20.89	0.1226
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	22.73	22.62	25.69	20.75	0.1187
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	21.94	21.95	24.96	20.02	0.1004

77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.91	21.92	24.93	19.99	0.0997
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	21.9	21.85	24.89	19.95	0.0988
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	90@45	20.36	20.46	23.42	18.48	0.0705
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.25	20.51	23.39	18.45	0.0700
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@187	20.19	20.36	23.29	18.35	0.0683
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	90@45	18.34	18.41	21.39	16.45	0.0441
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.19	18.38	21.30	16.36	0.0432
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@187	18.18	18.27	21.24	16.30	0.0426
77	30	70	633334	3500.01	CP-OFDM QPSK	95@47	19.4	19.49	22.46	17.52	0.0564
77	30	70	633334	3500.01	CP-OFDM QPSK	1@1	21.37	21.34	24.37	19.43	0.0876
77	30	70	633334	3500.01	CP-OFDM QPSK	1@187	21.28	21.23	24.27	19.33	0.0856
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	90@45	22.96	23.03	26.01	21.07	0.1278
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	22.94	23	25.98	21.04	0.1271
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@187	22.75	22.93	25.85	20.91	0.1233
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	22.99	23	26.01	21.07	0.1278
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	22.93	22.96	25.96	21.02	0.1263
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	22.67	22.7	25.70	20.76	0.1190
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	21.97	22.02	25.01	20.07	0.1015
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	22.03	21.98	25.02	20.08	0.1018
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	21.68	21.73	24.72	19.78	0.0950
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	90@45	20.44	20.53	23.50	18.56	0.0717
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@1	20.48	20.57	23.54	18.60	0.0724
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@187	20.26	20.37	23.33	18.39	0.0690
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	90@45	18.35	18.48	21.43	16.49	0.0445

77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@1	18.36	18.35	21.37	16.43	0.0439
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@187	18.14	18.26	21.21	16.27	0.0424
77	30	70	634332	3514.98	CP-OFDM QPSK	95@47	19.45	19.56	22.52	17.58	0.0572
77	30	70	634332	3514.98	CP-OFDM QPSK	1@1	21.58	21.44	24.52	19.58	0.0908
77	30	70	634332	3514.98	CP-OFDM QPSK	1@187	21.24	21.3	24.28	19.34	0.0859
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	22.41	22.44	25.44	20.50	0.1121
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	22.77	22.91	25.85	20.91	0.1233
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	22.76	22.75	25.77	20.83	0.1209
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	22.87	22.93	25.91	20.97	0.1250
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	22.7	22.86	25.79	20.85	0.1216
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	22.71	22.73	25.73	20.79	0.1200
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	21.88	21.93	24.92	19.98	0.0994
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	21.77	21.83	24.81	19.87	0.0971
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	21.79	21.87	24.84	19.90	0.0977
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	20.38	20.45	23.43	18.49	0.0706
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	20.36	20.2	23.29	18.35	0.0684
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	20.34	20.04	23.20	18.26	0.0670
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	18.35	18.39	21.38	16.44	0.0441
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	18.21	18.23	21.23	16.29	0.0426
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	18.18	18.18	21.19	16.25	0.0422
77	30	80	632668	3490.02	CP-OFDM QPSK	109@54	19.29	19.48	22.40	17.46	0.0557
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	21.35	21.2	24.29	19.35	0.0860
77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	21.21	21.23	24.23	19.29	0.0849
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	22.91	22.94	25.94	21.00	0.1258
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.88	22.89	25.90	20.96	0.1246

77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	22.77	22.81	25.80	20.86	0.1219
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	22.91	22.92	25.93	20.99	0.1255
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.81	22.83	25.83	20.89	0.1228
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	22.74	22.77	25.77	20.83	0.1209
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	21.84	21.94	24.90	19.96	0.0991
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.85	21.95	24.91	19.97	0.0993
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	21.82	21.89	24.87	19.93	0.0983
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	20.31	20.5	23.42	18.48	0.0704
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.39	20.44	23.43	18.49	0.0706
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	19.9	20.38	23.16	18.22	0.0663
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	18.36	18.4	21.39	16.45	0.0442
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.24	18.29	21.28	16.34	0.0430
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	18.16	18.15	21.17	16.23	0.0419
77	30	80	633334	3500.01	CP-OFDM QPSK	109@54	19.3	19.45	22.39	17.45	0.0555
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	21.39	21.32	24.37	19.43	0.0876
77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	21.21	21.2	24.22	19.28	0.0846
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	22.98	22.95	25.98	21.04	0.1269
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	22.96	22.98	25.98	21.04	0.1271
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	22.76	22.83	25.81	20.87	0.1221
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	23.07	22.97	26.03	21.09	0.1285
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	22.89	22.91	25.91	20.97	0.1250
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	22.68	22.81	25.76	20.82	0.1207
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	22	22.06	25.04	20.10	0.1023
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	22.02	21.92	24.98	20.04	0.1009

77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	21.84	21.85	24.86	19.92	0.0981
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	20.48	20.37	23.44	18.50	0.0707
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	20.28	20.51	23.41	18.47	0.0703
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	20.35	20.48	23.43	18.49	0.0706
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	18.41	18.38	21.41	16.47	0.0443
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	18.4	18.4	21.41	16.47	0.0444
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	18.19	18.26	21.24	16.30	0.0426
77	30	80	634000	3510	CP-OFDM QPSK	109@54	19.45	19.48	22.48	17.54	0.0567
77	30	80	634000	3510	CP-OFDM QPSK	1@1	21.52	21.38	24.46	19.52	0.0896
77	30	80	634000	3510	CP-OFDM QPSK	1@215	21.22	21.19	24.22	19.28	0.0846
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	22.31	22.4	25.37	20.43	0.1103
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	22.81	22.8	25.82	20.88	0.1223
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	22.75	22.75	25.76	20.82	0.1208
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	22.89	22.98	25.95	21.01	0.1261
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	22.69	22.71	25.71	20.77	0.1194
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	22.65	22.73	25.70	20.76	0.1191
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	21.89	21.95	24.93	19.99	0.0998
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	21.81	21.72	24.78	19.84	0.0963
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	21.74	21.7	24.73	19.79	0.0953
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	20.41	20.41	23.42	18.48	0.0705
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	20.29	20.35	23.33	18.39	0.0690
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	19.91	20.27	23.10	18.16	0.0655
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	18.36	18.41	21.40	16.46	0.0442
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	18.04	18.2	21.13	16.19	0.0416

77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	18.1	18.06	21.09	16.15	0.0412
77	30	90	633000	3495	CP-OFDM QPSK	123@61	19.34	19.41	22.39	17.45	0.0555
77	30	90	633000	3495	CP-OFDM QPSK	1@1	21.37	21.24	24.32	19.38	0.0866
77	30	90	633000	3495	CP-OFDM QPSK	1@243	21.26	21.19	24.24	19.30	0.0850
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	22.86	22.95	25.92	20.98	0.1252
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.82	22.79	25.82	20.88	0.1223
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	22.78	22.7	25.75	20.81	0.1205
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	22.88	22.94	25.92	20.98	0.1253
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.68	22.75	25.73	20.79	0.1198
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	22.68	22.72	25.71	20.77	0.1194
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	21.83	22.04	24.95	20.01	0.1002
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.85	21.84	24.86	19.92	0.0981
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	21.77	21.83	24.81	19.87	0.0971
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	20.39	20.47	23.44	18.50	0.0708
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.34	20.1	23.23	18.29	0.0675
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	19.92	20.39	23.17	18.23	0.0666
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	18.28	18.41	21.36	16.42	0.0438
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.21	18.21	21.22	16.28	0.0425
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	18.17	18.23	21.21	16.27	0.0424
77	30	90	633334	3500.01	CP-OFDM QPSK	123@61	19.33	19.43	22.39	17.45	0.0556
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	21.34	21.28	24.32	19.38	0.0867
77	30	90	633334	3500.01	CP-OFDM QPSK	1@243	21.22	21.16	24.20	19.26	0.0843
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	22.92	22.99	25.97	21.03	0.1266
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	22.88	22.91	25.91	20.97	0.1249
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	22.68	22.85	25.78	20.84	0.1212

77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	22.96	22.97	25.98	21.04	0.1269
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	22.82	22.91	25.88	20.94	0.1240
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	22.65	22.74	25.71	20.77	0.1193
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	21.96	22.18	25.08	20.14	0.1033
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	21.85	21.94	24.91	19.97	0.0992
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	21.55	21.79	24.68	19.74	0.0942
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	20.46	20.38	23.43	18.49	0.0706
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	20.08	20.55	23.33	18.39	0.0691
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	20.26	20.42	23.35	18.41	0.0694
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	18.39	18.44	21.43	16.49	0.0445
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	18.29	18.34	21.33	16.39	0.0435
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	18.07	18.23	21.16	16.22	0.0419
77	30	90	633666	3504.99	CP-OFDM QPSK	123@61	19.4	19.45	22.44	17.50	0.0562
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	21.43	21.35	24.40	19.46	0.0883
77	30	90	633666	3504.99	CP-OFDM QPSK	1@243	21.19	21.13	24.17	19.23	0.0838
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	22.39	22.46	25.44	20.50	0.1121
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.78	22.85	25.83	20.89	0.1226
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	22.66	22.85	25.77	20.83	0.1210
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	22.88	22.98	25.94	21.00	0.1259
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.74	22.89	25.83	20.89	0.1226
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	22.55	22.82	25.70	20.76	0.1191
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	21.87	22.12	25.01	20.07	0.1016
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.76	21.92	24.85	19.91	0.0980
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	21.8	21.92	24.87	19.93	0.0984

77	30	100	633334	3500.01	DFT-s- OFDM 64 QAM	135@67	20.39	20.32	23.37	18.43	0.0696
77	30	100	633334	3500.01	DFT-s- OFDM 64 QAM	1@1	20.43	20.3	23.38	18.44	0.0698
77	30	100	633334	3500.01	DFT-s- OFDM 64 QAM	1@271	20.2	20.33	23.28	18.34	0.0682
77	30	100	633334	3500.01	DFT-s- OFDM 256 QAM	135@67	18.31	18.43	21.38	16.44	0.0441
77	30	100	633334	3500.01	DFT-s- OFDM 256 QAM	1@1	18.2	18.27	21.25	16.31	0.0427
77	30	100	633334	3500.01	DFT-s- OFDM 256 QAM	1@271	18.09	18.22	21.17	16.23	0.0419
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	19.3	19.45	22.39	17.45	0.0555
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.34	21.25	24.31	19.37	0.0864
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	21.12	21.19	24.17	19.23	0.0837

FR1 N77 MIMO-30K(Ant 3)

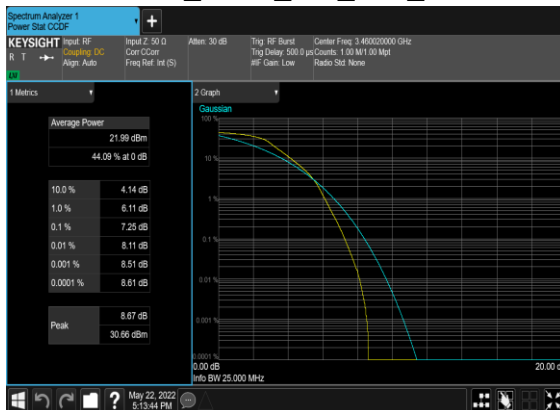
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00435	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00517	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00056	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00574	PASS	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00513	PASS	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00424	PASS	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00331	PASS	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00331	PASS	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00565	PASS	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00385	PASS	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00544	PASS	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00255	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	630668	3460.02	DFT-s-OFDM PI/2 BPSK	50@0	7.25	13	PASS
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@0	6.69	13	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	8.55	13	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	8.22	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	7.26	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	7.04	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	8.55	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	8.23	13	PASS
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	50@0	7.28	13	PASS
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	7.07	13	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	8.54	13	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	8.19	13	PASS

N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



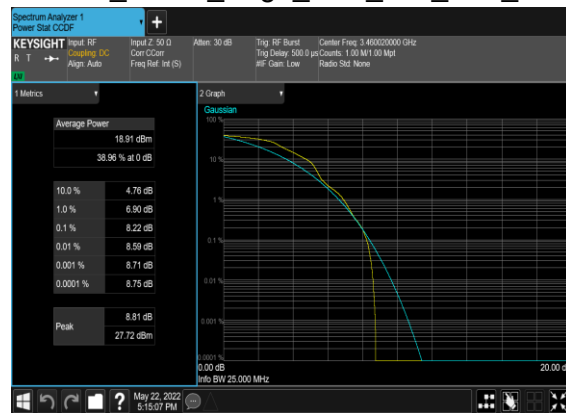
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N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



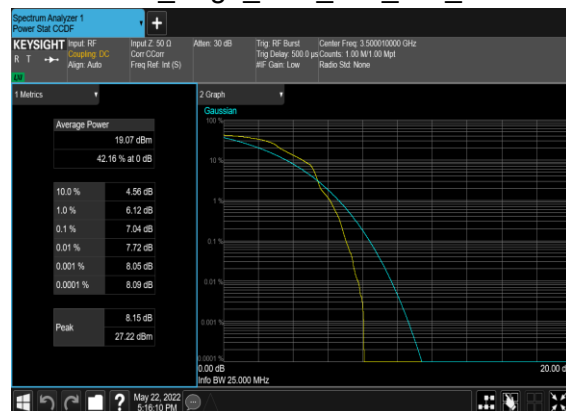
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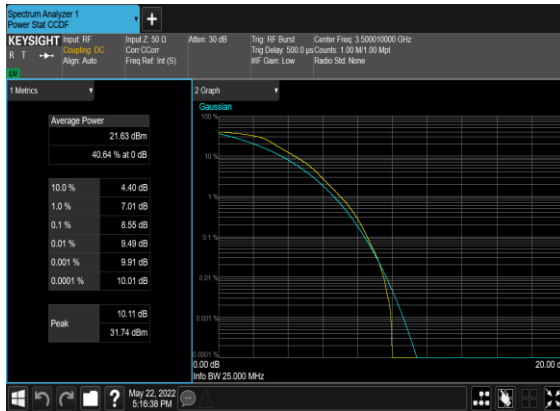
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



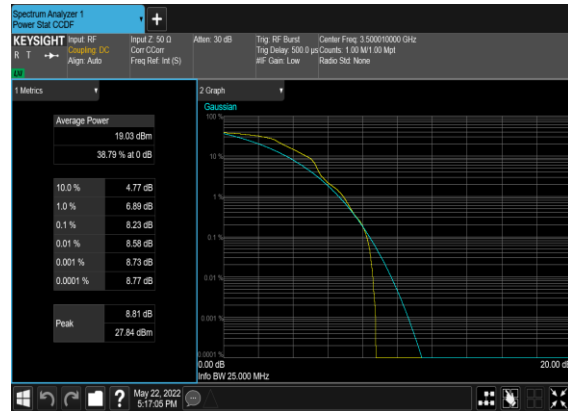
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



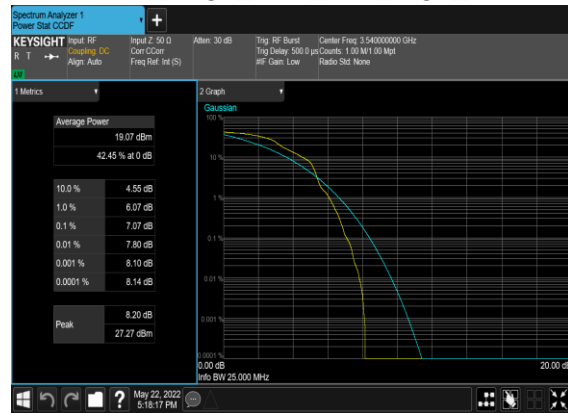
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OFDM_QPSK_Edge_1RB_Left_Mid_CH



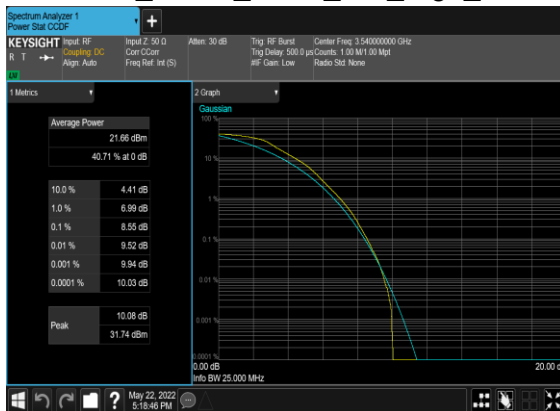
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BPSK_Outer_Full_High_CH



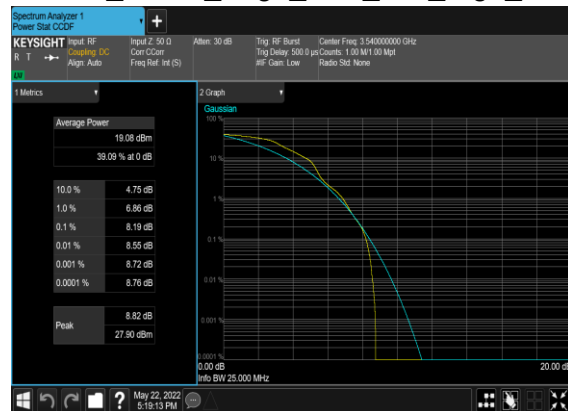
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BPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



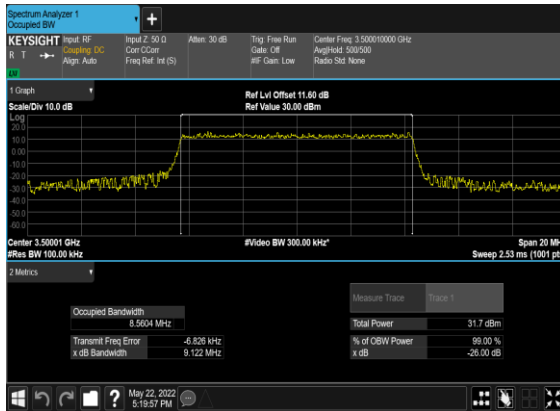
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	24@0	8.5604	9.122
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	24@0	8.5811	9.172
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5707	9.141
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5687	9.136
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.596	9.241
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5762	9.211
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@0	12.861	13.6
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	36@0	12.89	13.67
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.57	14.39
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.6	14.39
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.541	14.3
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.568	14.55
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	17.784	18.91
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.846	18.91
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.176	19.12
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.204	19.01
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.178	19.32
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.209	19.38
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@0	22.812	23.88
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	64@0	22.781	24.19
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.21	24.4
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.171	24.24
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.224	24.2
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.226	24.19

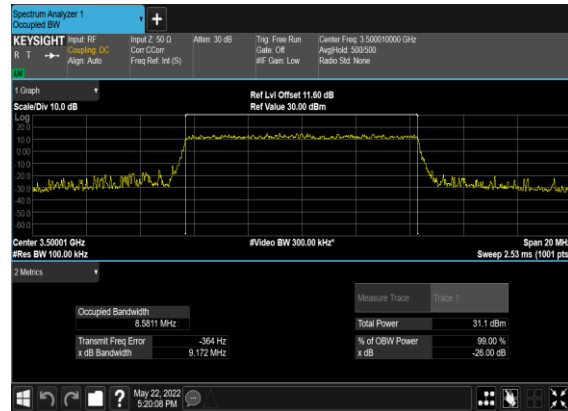
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	26.781	28.57
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	75@0	26.753	28.69
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.824	31.12
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.788	29.07
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.831	29.22
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.854	29.26
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.702	37.59
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	100@0	35.8	38.58
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.825	39.36
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.727	39.51
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.821	39.68
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.884	39.73
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	128@0	45.818	47.5
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	128@0	45.712	47.68
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.483	49.08
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.527	49.74
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.552	49.29
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.442	49.98
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	162@0	57.898	59.71
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	162@0	57.832	59.86
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.87	59.71
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.85	59.72
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.822	59.76
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.749	60.19
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	180@0	64.299	66.41
77	30	70	633334	3500.01	DFT-s-OFDM	180@0	64.353	67.04

QPSK								
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.465	70.07
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.413	69.67
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.346	69.78
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.38	69.61
77	30	80	633334	3500.01	DFT-s- OFDM PI/2 BPSK	216@0	77.243	79.6
77	30	80	633334	3500.01	DFT-s- OFDM QPSK	216@0	77.221	79.71
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.466	80.05
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.415	80.02
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.476	82.07
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.559	80.01
77	30	90	633334	3500.01	DFT-s- OFDM PI/2 BPSK	240@0	85.604	88.5
77	30	90	633334	3500.01	DFT-s- OFDM QPSK	240@0	86.748	89.49
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.283	90.82
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.42	90.29
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.287	90.33
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.408	90.25
77	30	100	633334	3500.01	DFT-s- OFDM PI/2 BPSK	270@0	96.418	99.59
77	30	100	633334	3500.01	DFT-s- OFDM QPSK	270@0	96.465	99.44
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.417	100.6
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.524	101.2
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.426	100.6
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.661	100.6

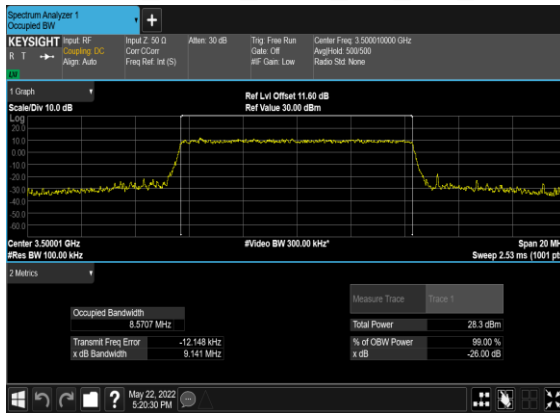
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BPSK_Outer_Full_Mid_CH



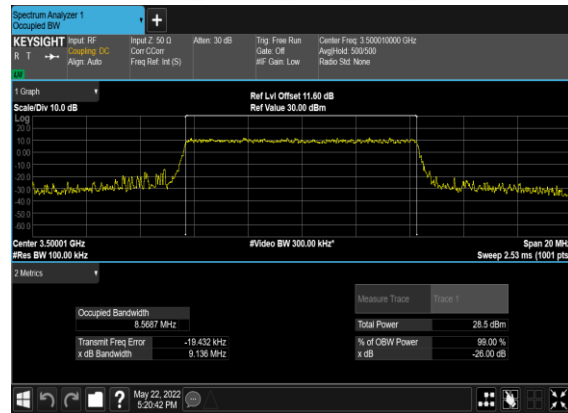
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OFDM_QPSK_Outer_Full_Mid_CH



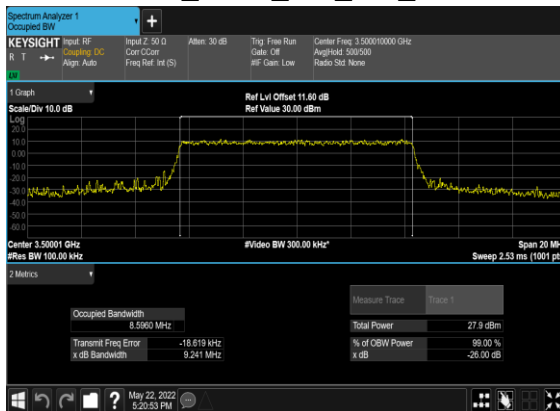
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OFDM_QPSK_Outer_Full_Mid_CH



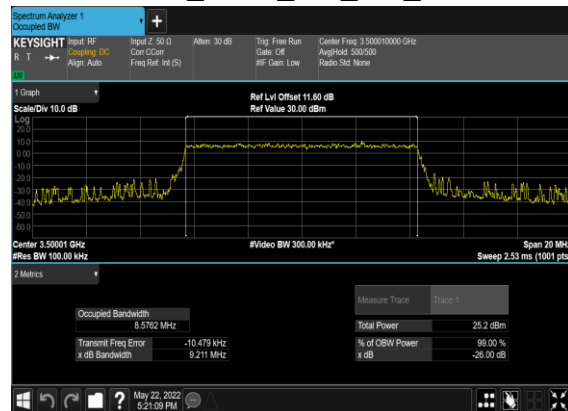
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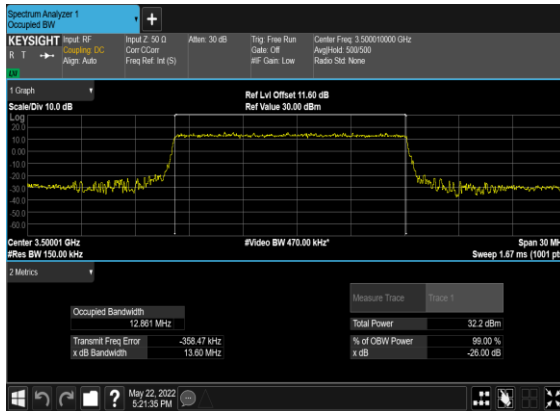
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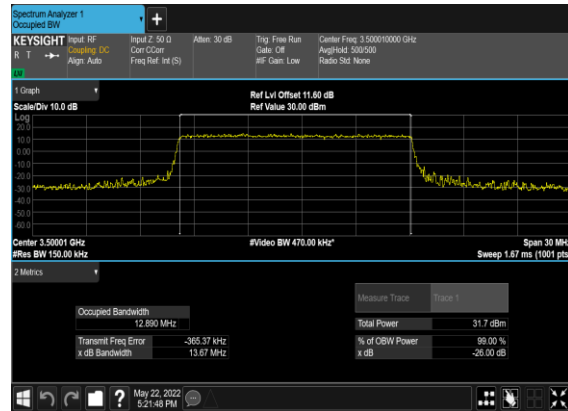
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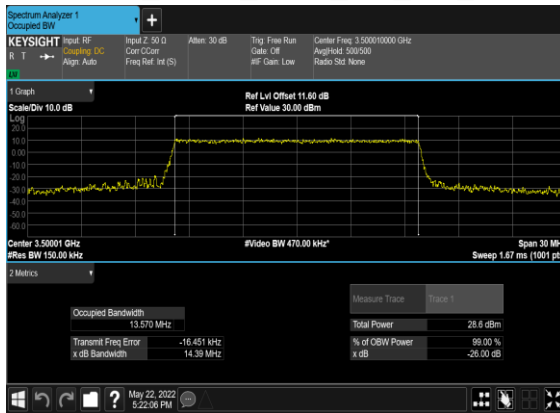
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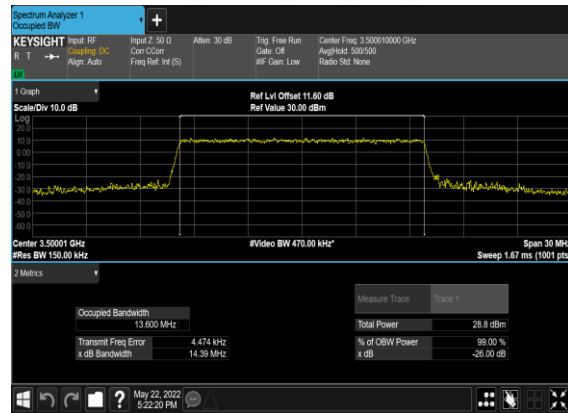
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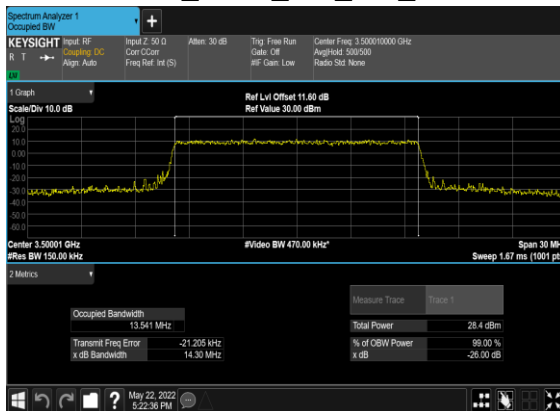
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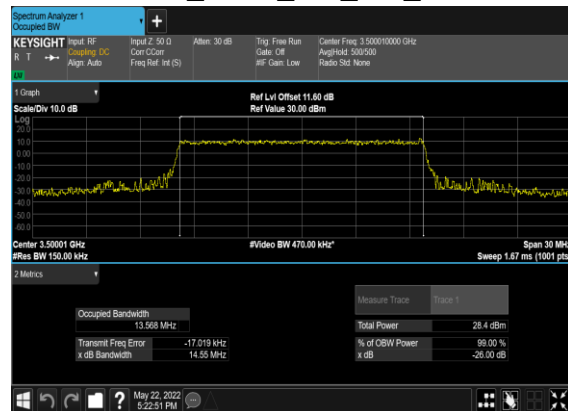
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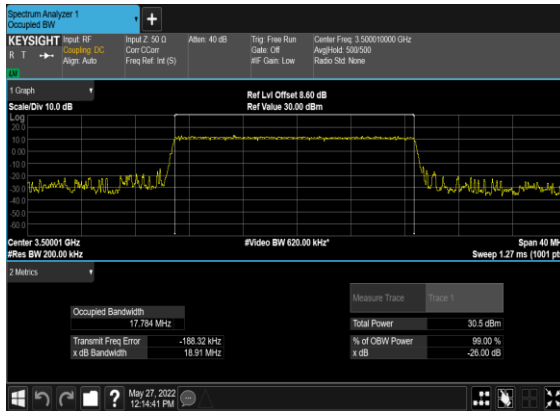
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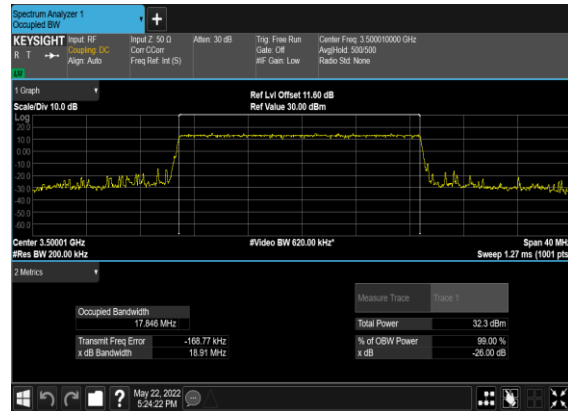
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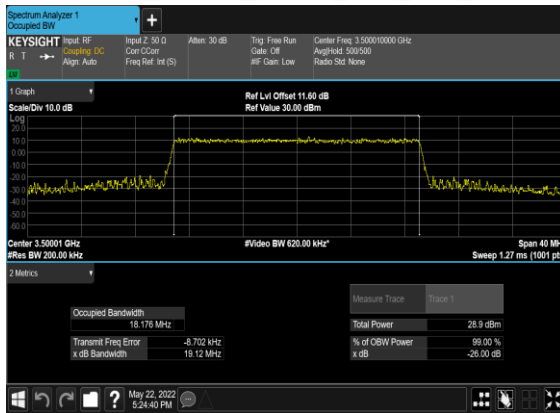
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BPSK_Outer_Full_Mid_CH



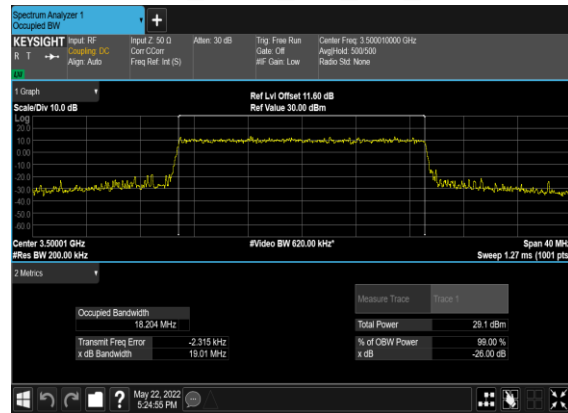
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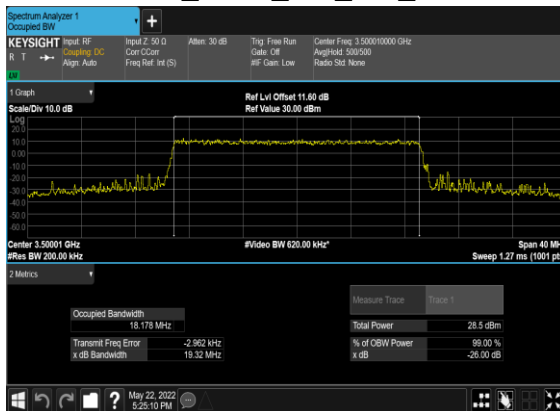
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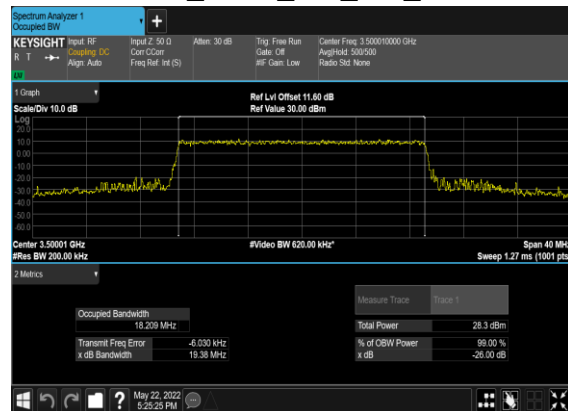
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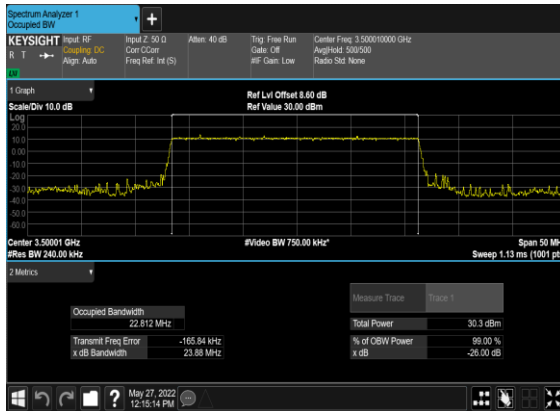
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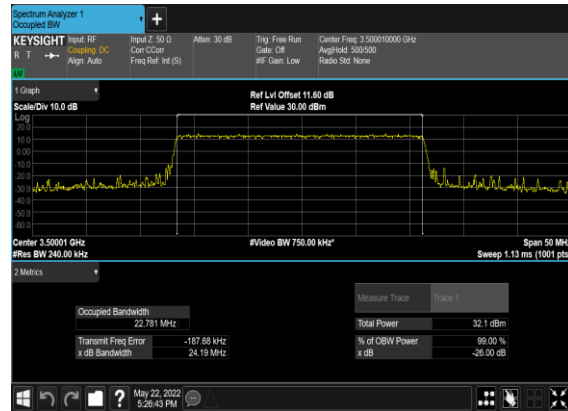
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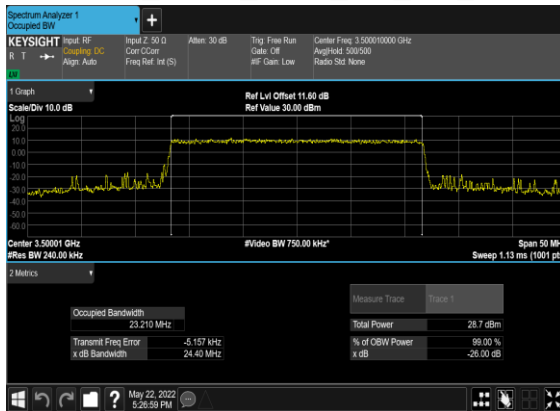
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BPSK_Outer_Full_Mid_CH



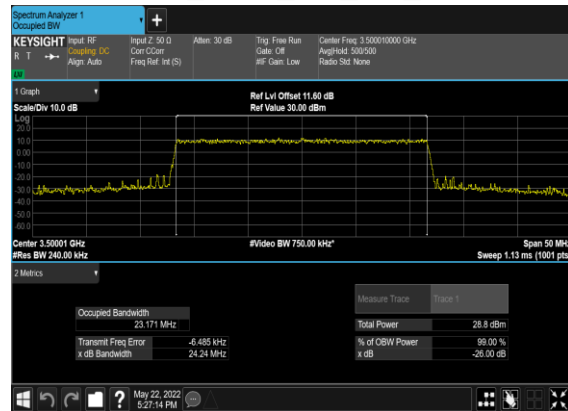
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OFDM_QPSK_Outer_Full_Mid_CH



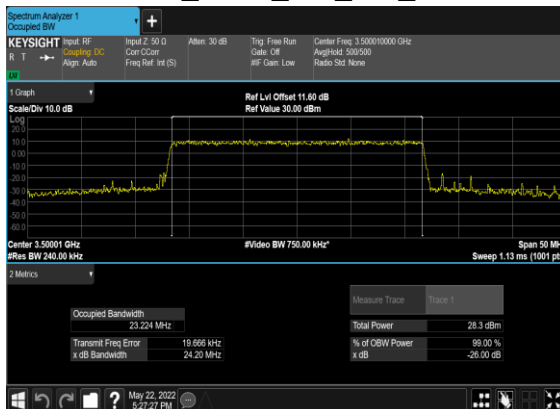
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OFDM_QPSK_Outer_Full_Mid_CH



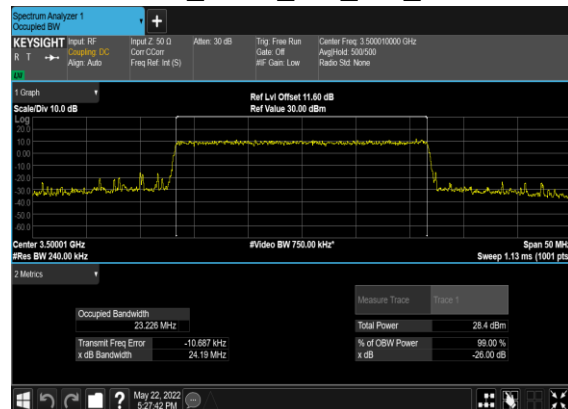
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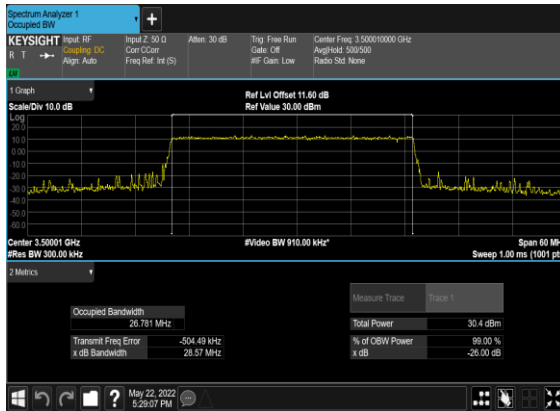
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QAM_Outer_Full_Mid_CH



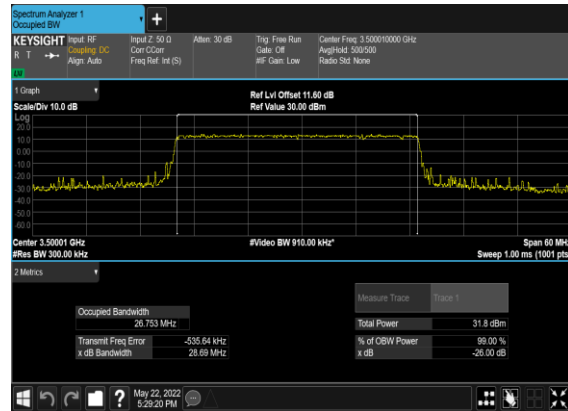
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QAM_Outer_Full_Mid_CH



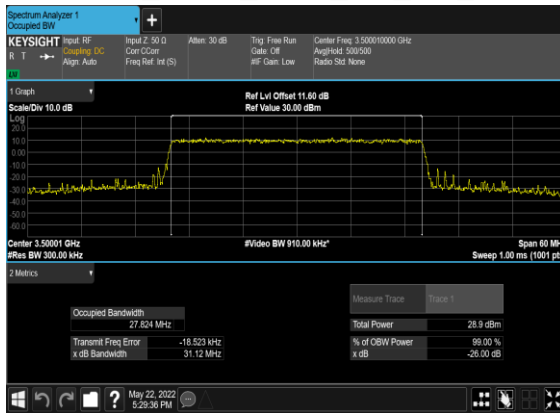
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BPSK_Outer_Full_Mid_CH



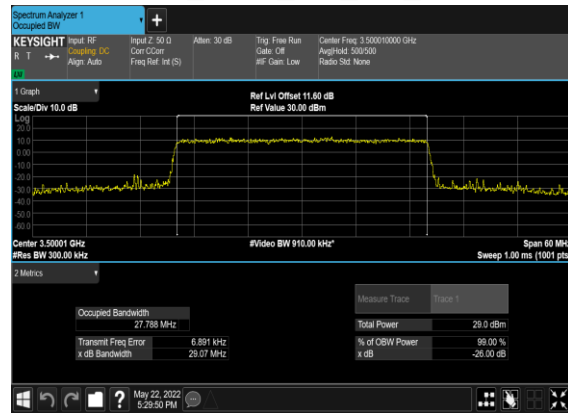
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OFDM_QPSK_Outer_Full_Mid_CH



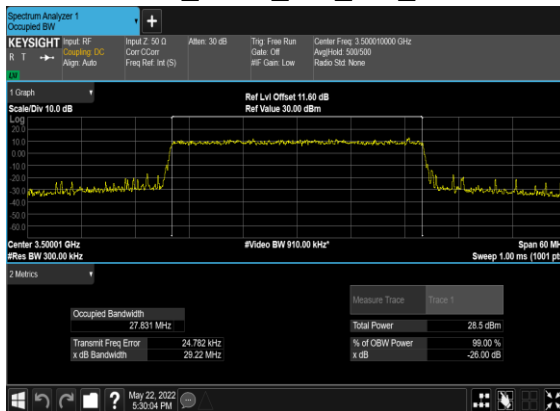
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OFDM_QPSK_Outer_Full_Mid_CH



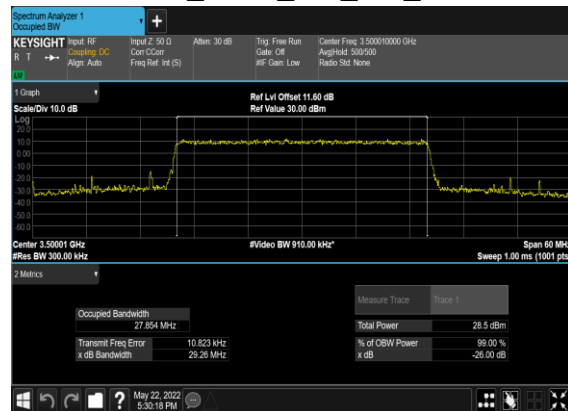
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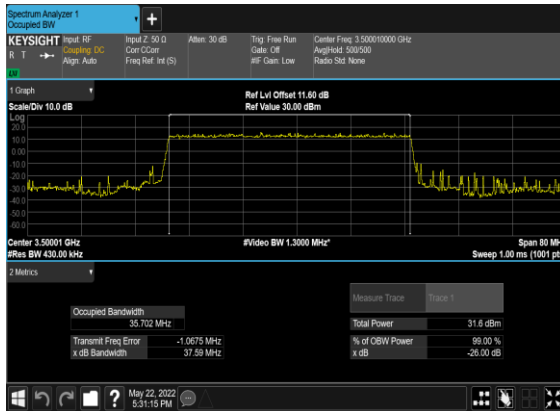
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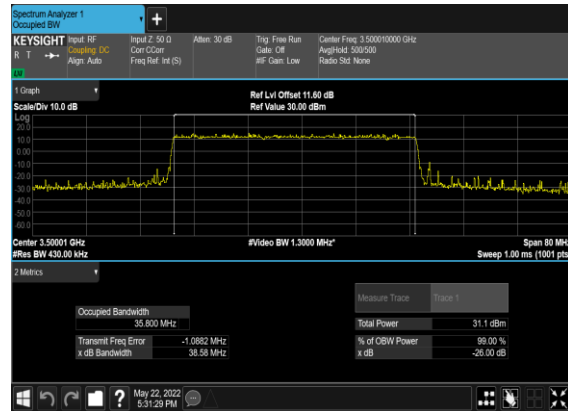
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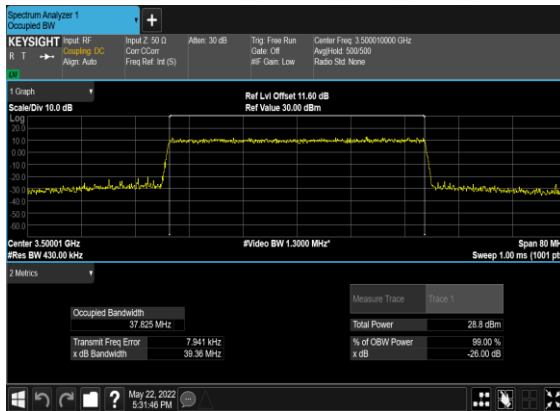
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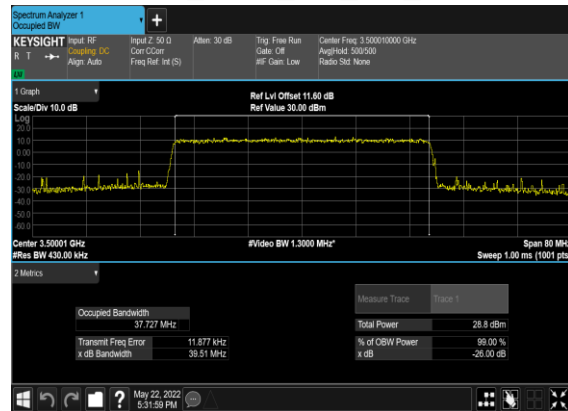
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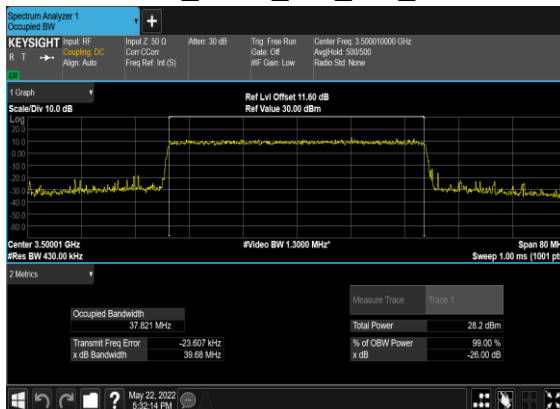
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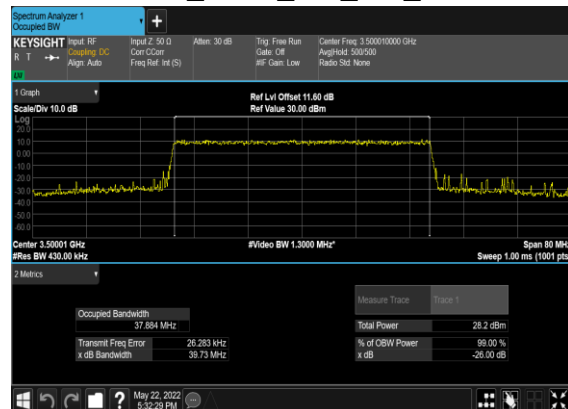
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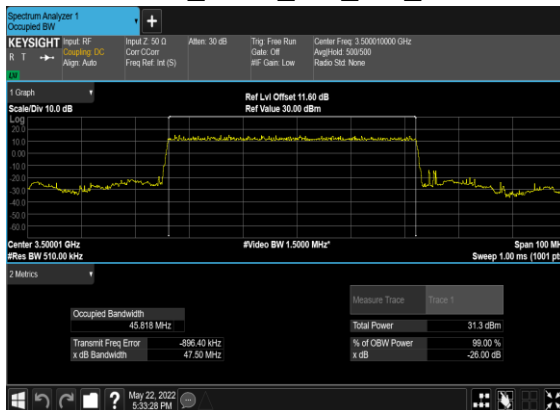
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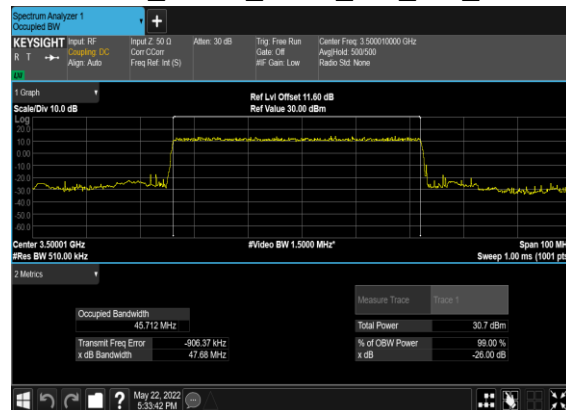
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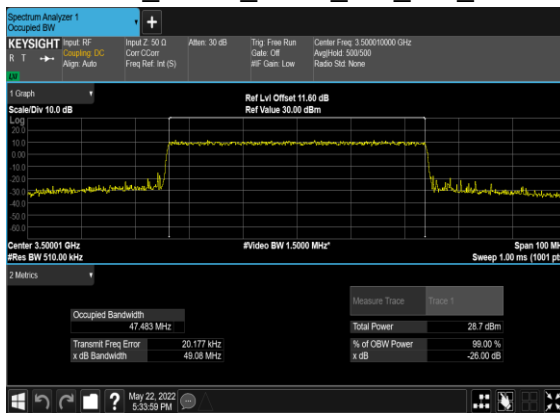
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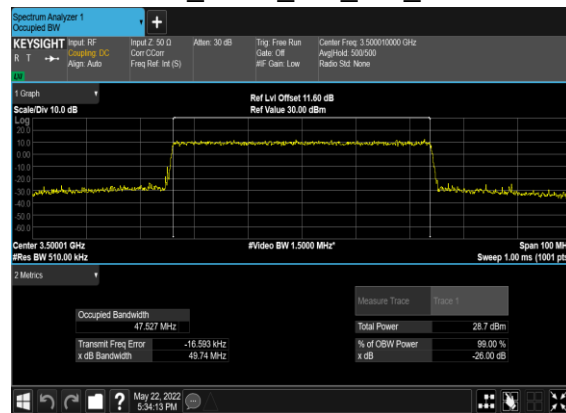
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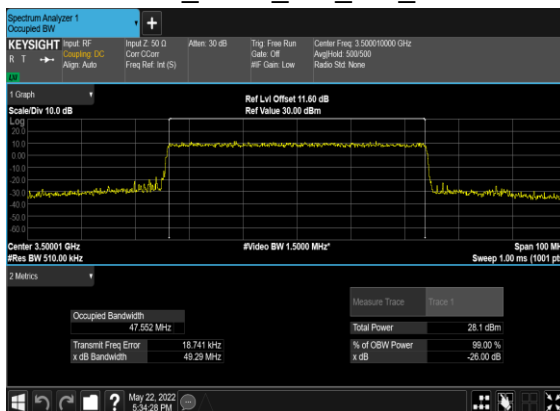
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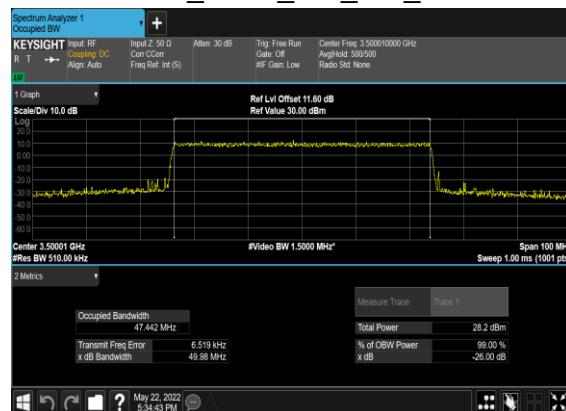
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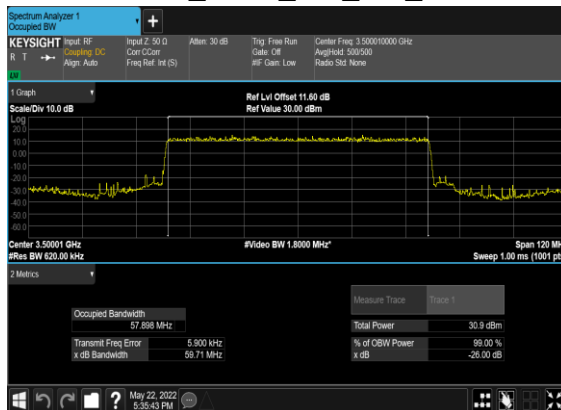
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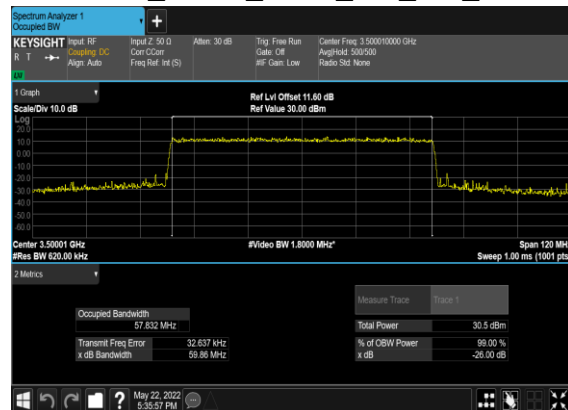
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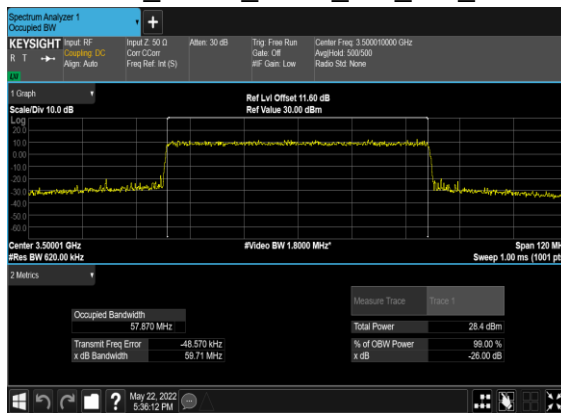
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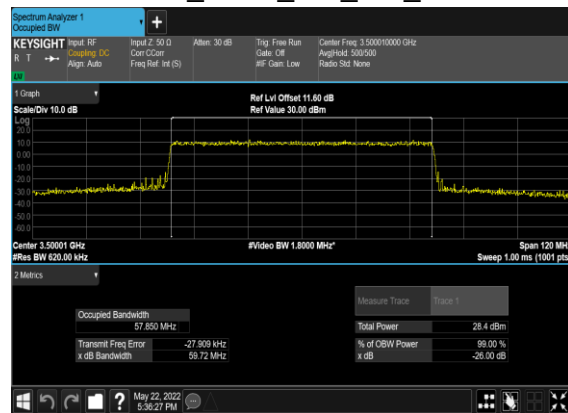
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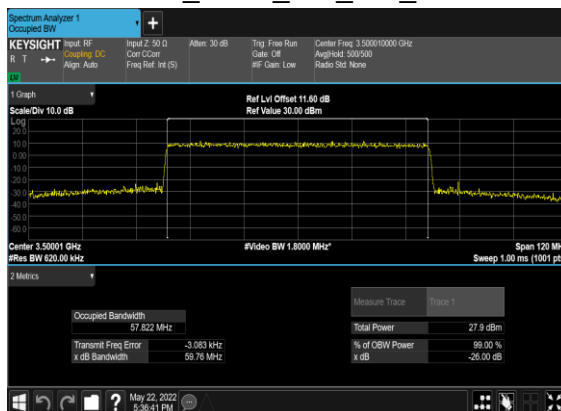
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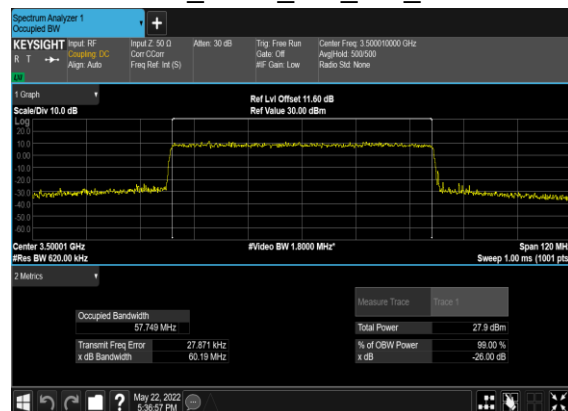
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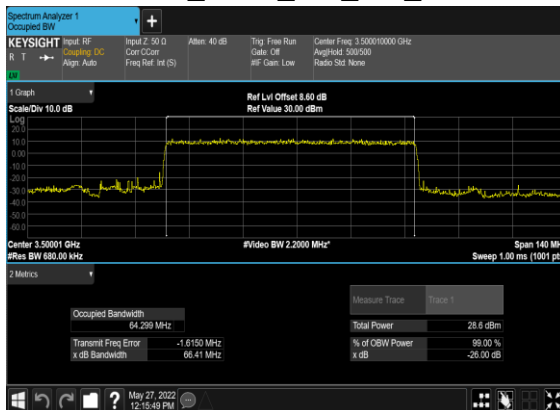
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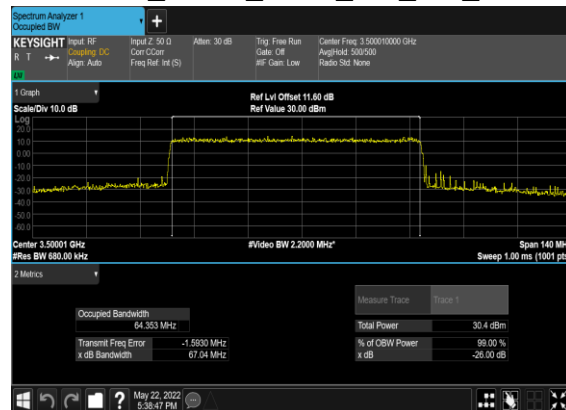
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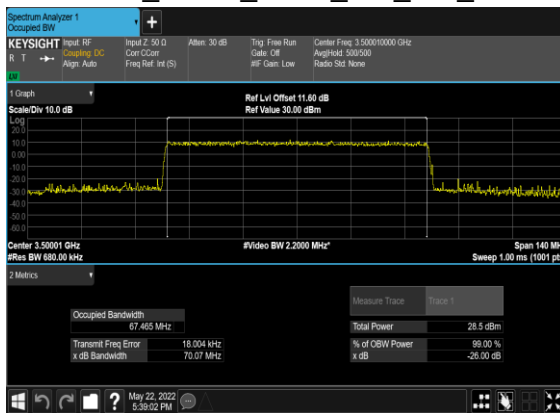
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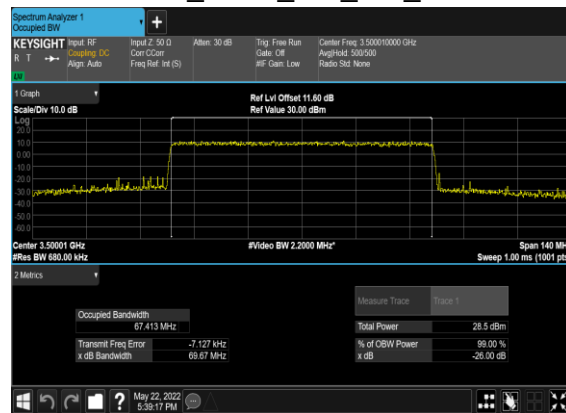
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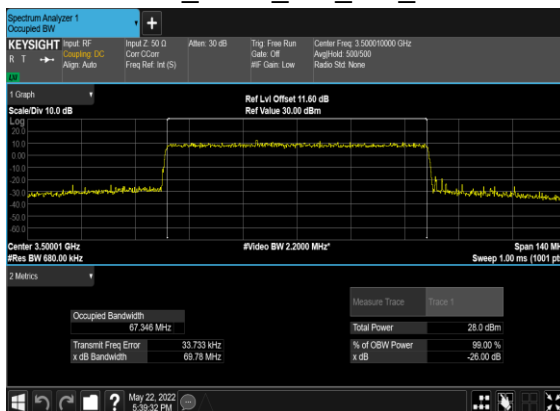
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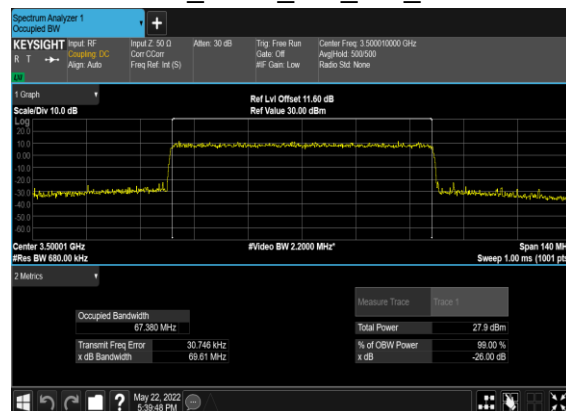
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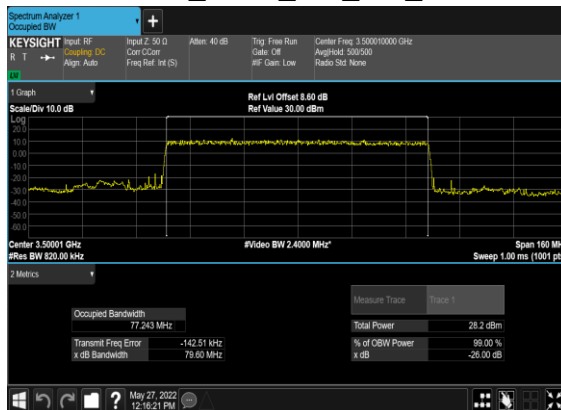
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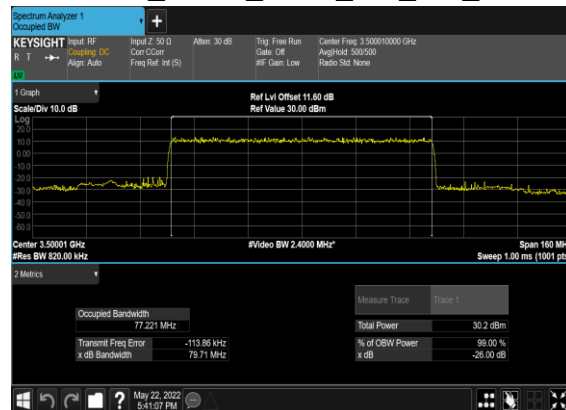
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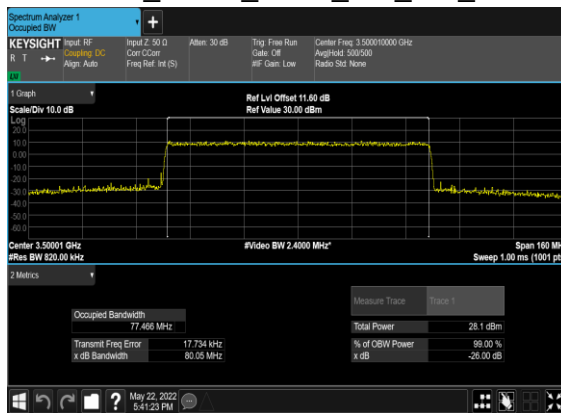
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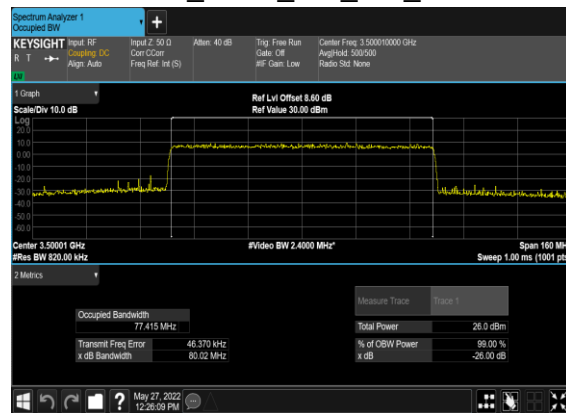
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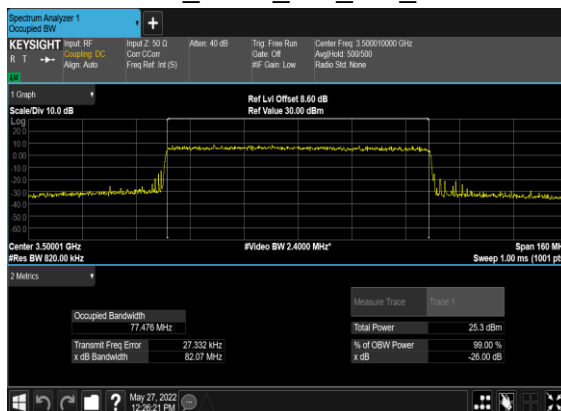
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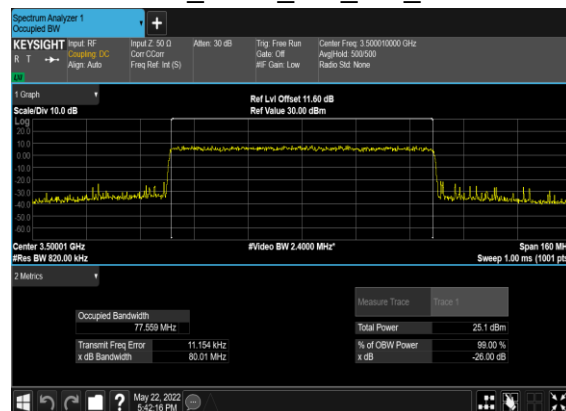
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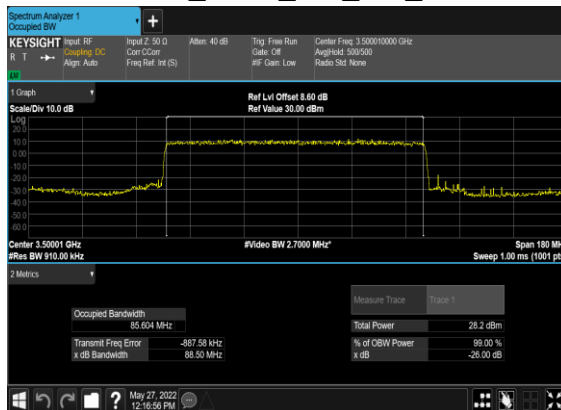
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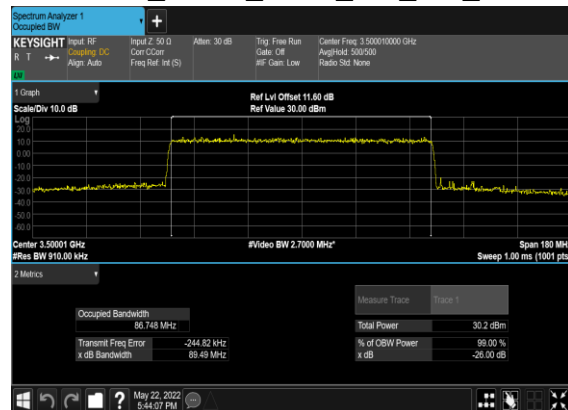
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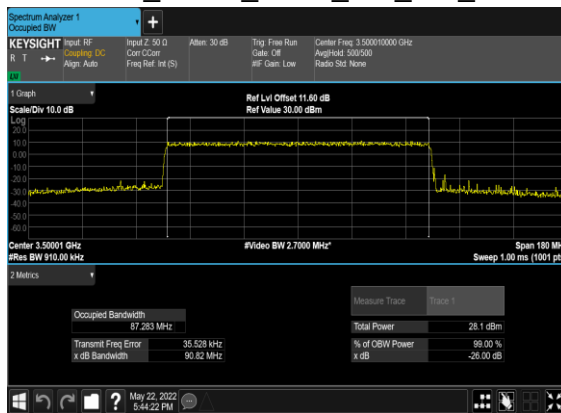
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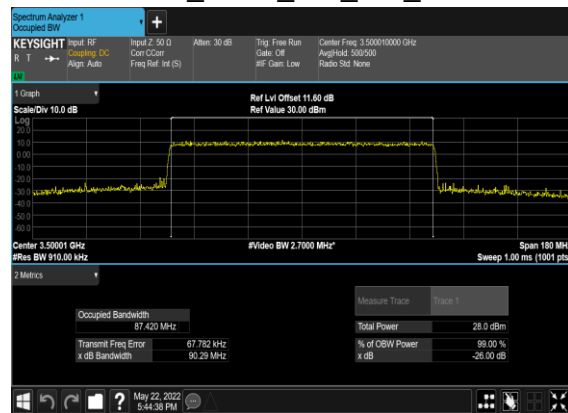
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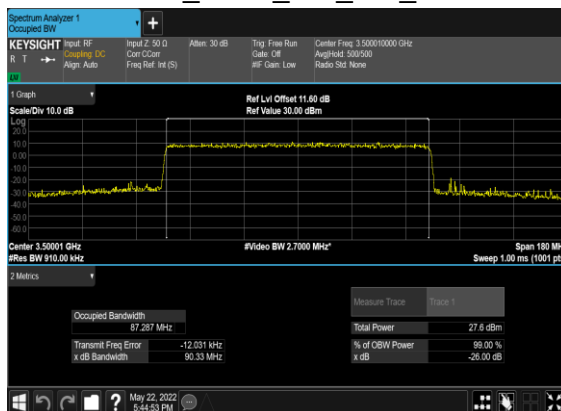
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N77(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

