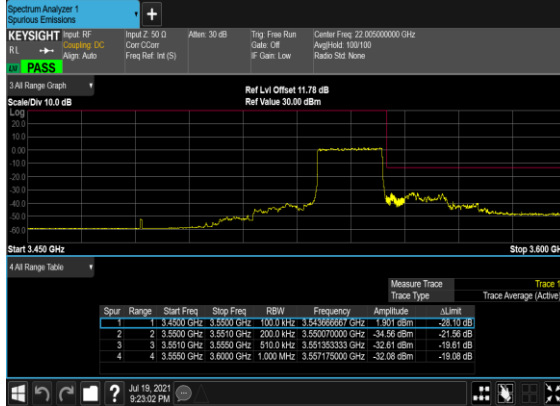
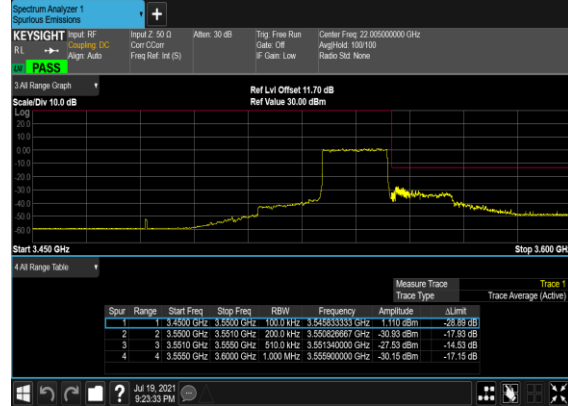


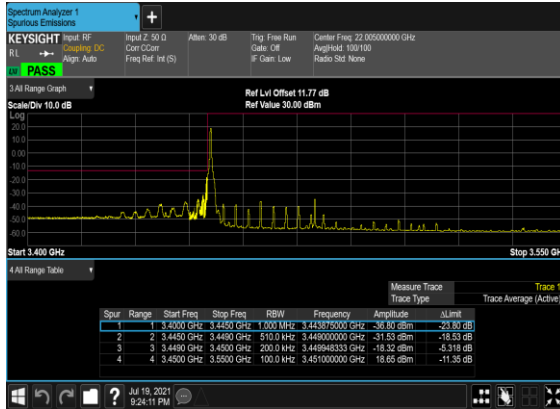
B2_N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



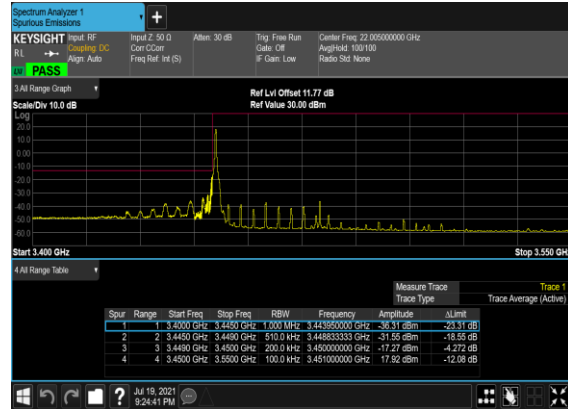
B2_N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



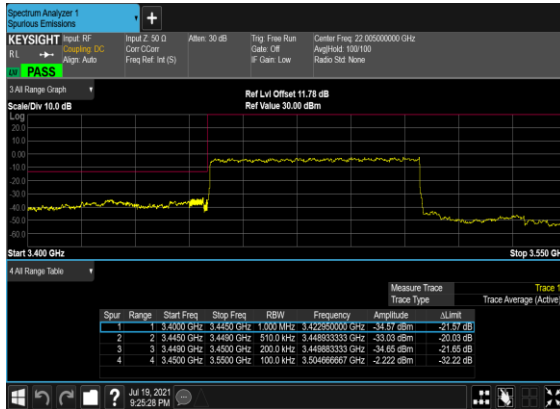
B2_N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



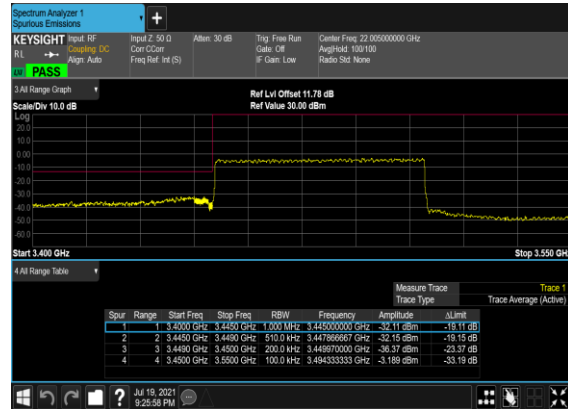
B2_N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



B2_N77(60M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



B2_N77(60M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



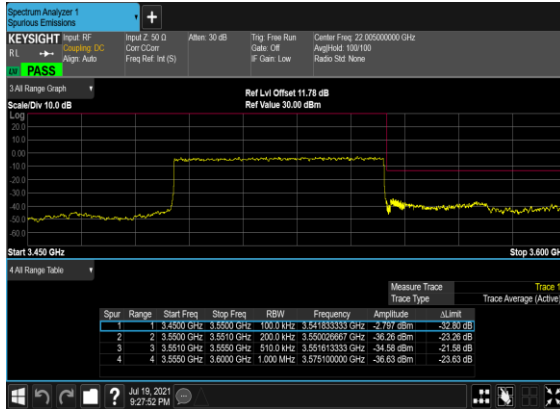
B2_N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



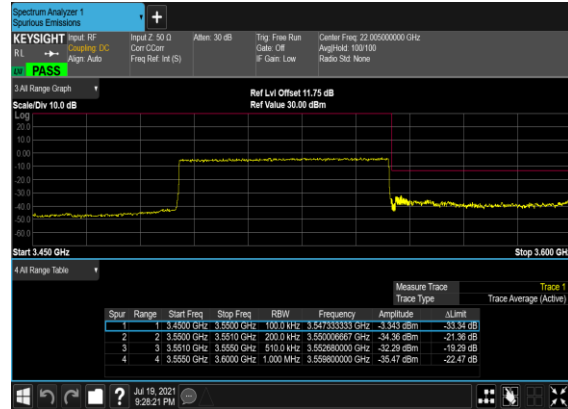
B2_N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



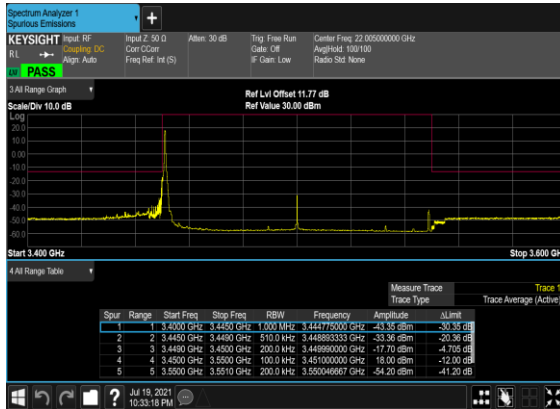
B2_N77(60M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



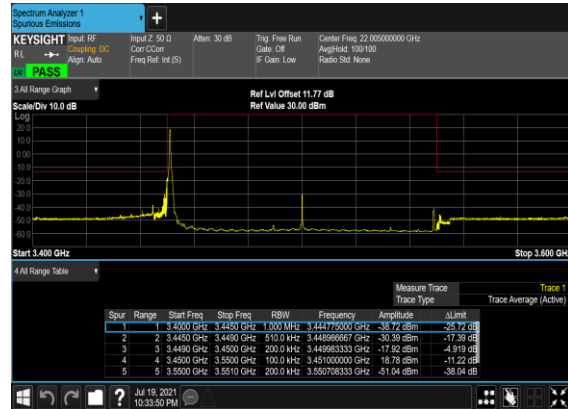
B2_N77(60M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



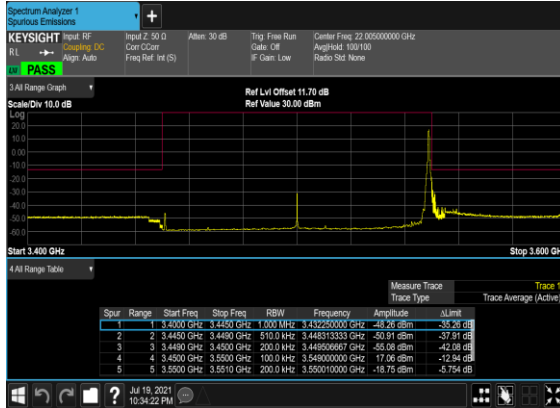
B2_N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



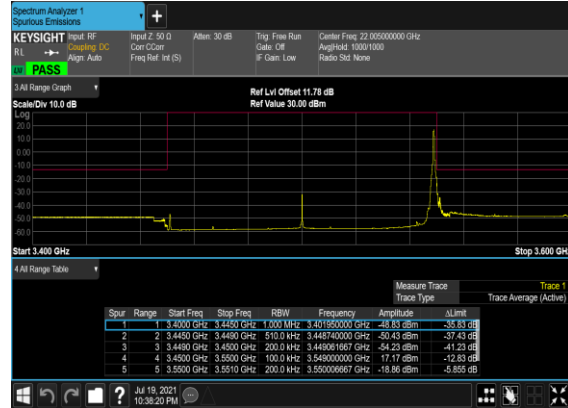
B2_N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



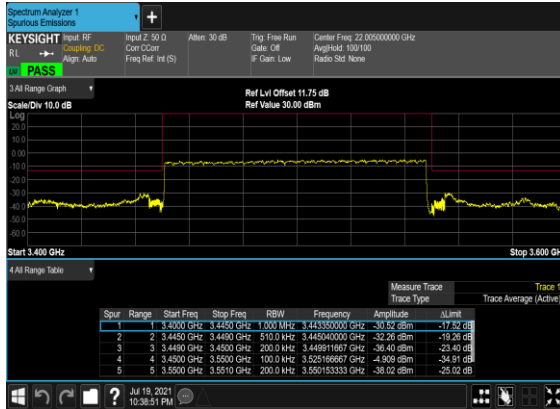
B2_N77(100M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_Mid_CH



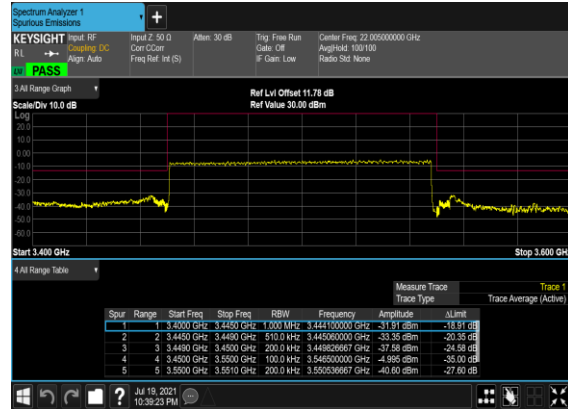
B2_N77(100M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_Mid_CH



B2_N77(100M)_DFT-s- OFDM_BPSK_Outer_Full_Mid_CH



B2_N77(100M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



FR1 N77

LTE Band: 5, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$) =5.0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	24.03	29.03	0.7998
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.38	29.38	0.8670
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	23.77	28.77	0.7534
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	23.99	28.99	0.7925
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.49	29.49	0.8892
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	23.87	28.87	0.7709
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	23.16	28.16	0.6546
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.5	28.5	0.7079
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	22.96	27.96	0.6252
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	21.61	26.61	0.4581
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.82	26.82	0.4808
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	21.28	26.28	0.4246
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	19.64	24.64	0.2911
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.99	24.99	0.3155
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	19.43	24.43	0.2773
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	22.58	27.58	0.5728
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	22.98	27.98	0.6281
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	22.38	27.38	0.5470



FR1 n77-Part27Q UL-MIMO

Transmitter Conducted Output Power And EIRP

All transmit signals are completely uncorrelated with each other, so Directional gain=5.0dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Ant4 Power(dBm)	Ant5 Power(dBm)	Combine Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	20	630668	3504.99	CP-OFDM QPSK	25@12	20.47	18.04	22.43	27.43	0.5537
77	30	20	630668	3504.99	CP-OFDM QPSK	1@1	20.64	18.55	22.73	27.73	0.5929
77	30	20	630668	3504.99	CP-OFDM QPSK	1@49	20.27	18.21	22.37	27.37	0.5459
77	30	20	630668	3460.02	CP-OFDM 16 QAM	25@12	19.8	17.65	21.87	26.87	0.4861
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	20.02	17.94	22.11	27.11	0.5145
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@49	19.64	17.62	21.76	26.76	0.4739
77	30	20	630668	3460.02	CP-OFDM 64 QAM	25@12	18.42	16.11	20.43	25.43	0.3489
77	30	20	630668	3460.02	CP-OFDM 64 QAM	1@1	18.37	16.62	20.59	25.59	0.3625
77	30	20	630668	3460.02	CP-OFDM 64 QAM	1@49	18.25	16.18	20.35	25.35	0.3426
77	30	20	630668	3460.02	CP-OFDM 256 QAM	25@12	15.34	13.1	17.37	22.37	0.1727
77	30	20	630668	3460.02	CP-OFDM 256 QAM	1@1	15.57	13.49	17.66	22.66	0.1847
77	30	20	630668	3460.02	CP-OFDM 256 QAM	1@49	15.32	13.11	17.36	22.36	0.1724
77	30	20	633334	3500.01	CP-OFDM QPSK	25@12	19.91	18.43	22.24	27.24	0.5300
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	20.2	18.62	22.49	27.49	0.5613



77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	20.02	18.74	22.44	27.44	0.5543
77	30	20	633334	3500.01	CP-OFDM 16 QAM	25@12	19.39	18.04	21.78	26.78	0.4762
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	19.76	18.02	21.99	26.99	0.4997
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@49	19.67	18.15	21.99	26.99	0.4996
77	30	20	633334	3500.01	CP-OFDM 64 QAM	25@12	17.96	16.47	20.29	25.29	0.3380
77	30	20	633334	3500.01	CP-OFDM 64 QAM	1@1	17.95	16.73	20.39	25.39	0.3462
77	30	20	633334	3500.01	CP-OFDM 64 QAM	1@49	17.94	16.73	20.39	25.39	0.3457
77	30	20	633334	3500.01	CP-OFDM 256 QAM	25@12	14.98	13.47	17.30	22.30	0.1698
77	30	20	633334	3500.01	CP-OFDM 256 QAM	1@1	15.17	13.59	17.46	22.46	0.1763
77	30	20	633334	3500.01	CP-OFDM 256 QAM	1@49	15.11	13.65	17.45	22.45	0.1758
77	30	20	636000	3540	CP-OFDM QPSK	25@12	19.88	18.74	22.36	27.36	0.5442
77	30	20	636000	3540	CP-OFDM QPSK	1@1	20.22	18.95	22.64	27.64	0.5810
77	30	20	636000	3540	CP-OFDM QPSK	1@49	19.87	18.81	22.38	27.38	0.5473
77	30	20	636000	3540	CP-OFDM 16 QAM	25@12	19.37	18.29	21.87	26.87	0.4868
77	30	20	636000	3540	CP-OFDM 16 QAM	1@1	19.65	18.15	21.97	26.97	0.4983
77	30	20	636000	3540	CP-OFDM 16 QAM	1@49	19.6	18.38	22.04	27.04	0.5062
77	30	20	636000	3540	CP-OFDM 64 QAM	25@12	17.9	16.67	20.34	25.34	0.3419
77	30	20	636000	3540	CP-OFDM 64 QAM	1@1	17.85	17.03	20.47	25.47	0.3523



77	30	20	636000	3540	CP-OFDM 64 QAM	1@49	17.67	17.02	20.37	25.37	0.3441
77	30	20	636000	3540	CP-OFDM 256 QAM	25@12	14.89	13.82	17.40	22.40	0.1737
77	30	20	636000	3540	CP-OFDM 256 QAM	1@1	15.15	13.88	17.57	22.57	0.1808
77	30	20	636000	3540	CP-OFDM 256 QAM	1@49	14.93	13.83	17.43	22.43	0.1748
77	30	40	631334	3470.01	CP-OFDM QPSK	50@25	20.51	18.33	22.57	27.57	0.5709
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	20.42	17.81	22.32	27.32	0.5393
77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	20.13	17.66	22.08	27.08	0.5103
77	30	40	631334	3470.01	CP-OFDM 16 QAM	50@25	20.02	17.77	22.05	27.05	0.5069
77	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	20.11	18.17	22.26	27.26	0.5318
77	30	40	631334	3470.01	CP-OFDM 16 QAM	1@104	19.3	17.22	21.39	26.39	0.4359
77	30	40	631334	3470.01	CP-OFDM 64 QAM	50@25	18.52	16.26	20.55	25.55	0.3586
77	30	40	631334	3470.01	CP-OFDM 64 QAM	1@1	18.77	16.91	20.95	25.95	0.3935
77	30	40	631334	3470.01	CP-OFDM 64 QAM	1@104	17.81	15.67	19.88	24.88	0.3077
77	30	40	631334	3470.01	CP-OFDM 256 QAM	50@25	15.45	13.24	17.49	22.49	0.1776
77	30	40	631334	3470.01	CP-OFDM 256 QAM	1@1	15.67	13.54	17.74	22.74	0.1881
77	30	40	631334	3470.01	CP-OFDM 256 QAM	1@104	14.94	12.73	16.98	21.98	0.1579
77	30	40	633334	3500.01	CP-OFDM QPSK	50@25	19.73	17.61	21.81	26.81	0.4796
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	20.01	17.64	22.00	27.00	0.5006



77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	19.97	17.93	22.08	27.08	0.5104
77	30	40	633334	3500.01	CP-OFDM 16 QAM	50@25	19.22	17.1	21.30	26.30	0.4264
77	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	19.33	17.1	21.37	26.37	0.4332
77	30	40	633334	3500.01	CP-OFDM 16 QAM	1@104	19.42	17.64	21.63	26.63	0.4603
77	30	40	633334	3500.01	CP-OFDM 64 QAM	50@25	17.78	15.62	19.84	24.84	0.3050
77	30	40	633334	3500.01	CP-OFDM 64 QAM	1@1	17.87	15.48	19.85	24.85	0.3053
77	30	40	633334	3500.01	CP-OFDM 64 QAM	1@104	17.79	16.06	20.02	25.02	0.3178
77	30	40	633334	3500.01	CP-OFDM 256 QAM	50@25	14.77	12.68	16.86	21.86	0.1535
77	30	40	633334	3500.01	CP-OFDM 256 QAM	1@1	14.84	12.32	16.77	21.77	0.1503
77	30	40	633334	3500.01	CP-OFDM 256 QAM	1@104	14.96	12.89	17.06	22.06	0.1606
77	30	40	635332	3529.98	CP-OFDM QPSK	50@25	19.82	17.84	21.95	26.95	0.4957
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	20.14	18.22	22.30	27.30	0.5365
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	19.77	18.24	22.08	27.08	0.5108
77	30	40	635332	3529.98	CP-OFDM 16 QAM	50@25	19.29	17.41	21.46	26.46	0.4427
77	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	19.32	17.42	21.48	26.48	0.4450
77	30	40	635332	3529.98	CP-OFDM 16 QAM	1@104	19.06	17.48	21.35	26.35	0.4317
77	30	40	635332	3529.98	CP-OFDM 64 QAM	50@25	17.82	15.87	19.96	24.96	0.3136
77	30	40	635332	3529.98	CP-OFDM 64 QAM	1@1	17.88	16.06	20.07	25.07	0.3217



77	30	40	635332	3529.98	CP-OFDM 64 QAM	1@104	17.71	16.16	20.01	25.01	0.3173
77	30	40	635332	3529.98	CP-OFDM 256 QAM	50@25	14.78	12.93	16.96	21.96	0.1571
77	30	40	635332	3529.98	CP-OFDM 256 QAM	1@1	14.84	13.16	17.09	22.09	0.1618
77	30	40	635332	3529.98	CP-OFDM 256 QAM	1@104	14.91	13.27	17.18	22.18	0.1651
77	30	50	631668	3475.02	CP-OFDM QPSK	64@32	19.68	16.95	21.54	26.54	0.4504
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	20.25	17.53	22.11	27.11	0.5140
77	30	50	631668	3475.02	CP-OFDM QPSK	1@131	19.65	17.25	21.62	26.62	0.4596
77	30	50	631668	3475.02	CP-OFDM 16 QAM	64@32	19.14	16.55	21.05	26.05	0.4023
77	30	50	631668	3475.02	CP-OFDM 16 QAM	1@1	19.55	17.02	21.48	26.48	0.4443
77	30	50	631668	3475.02	CP-OFDM 16 QAM	1@131	19.22	17.19	21.33	26.33	0.4298
77	30	50	631668	3475.02	CP-OFDM 64 QAM	64@32	17.76	15.02	19.61	24.61	0.2893
77	30	50	631668	3475.02	CP-OFDM 64 QAM	1@1	18.07	15.39	19.94	24.94	0.3122
77	30	50	631668	3475.02	CP-OFDM 64 QAM	1@131	17.39	15.55	19.58	24.58	0.2869
77	30	50	631668	3475.02	CP-OFDM 256 QAM	64@32	14.66	11.94	16.52	21.52	0.1419
77	30	50	631668	3475.02	CP-OFDM 256 QAM	1@1	14.96	12.46	16.90	21.90	0.1548
77	30	50	631668	3475.02	CP-OFDM 256 QAM	1@131	14.53	12.3	16.57	21.57	0.1434
77	30	50	633334	3500.01	CP-OFDM QPSK	64@32	19.45	17.41	21.56	26.56	0.4528
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	19.88	17.24	21.77	26.77	0.4751



77	30	50	633334	3500.01	CP-OFDM QPSK	1@131	19.68	17.52	21.74	26.74	0.4724
77	30	50	633334	3500.01	CP-OFDM 16 QAM	64@32	19.03	16.81	21.07	26.07	0.4046
77	30	50	633334	3500.01	CP-OFDM 16 QAM	1@1	19.29	16.7	21.20	26.20	0.4164
77	30	50	633334	3500.01	CP-OFDM 16 QAM	1@131	19.05	17.12	21.20	26.20	0.4170
77	30	50	633334	3500.01	CP-OFDM 64 QAM	64@32	17.59	15.38	19.63	24.63	0.2907
77	30	50	633334	3500.01	CP-OFDM 64 QAM	1@1	17.65	15.15	19.59	24.59	0.2876
77	30	50	633334	3500.01	CP-OFDM 64 QAM	1@131	17.34	15.86	19.67	24.67	0.2933
77	30	50	633334	3500.01	CP-OFDM 256 QAM	64@32	14.55	12.37	16.61	21.61	0.1447
77	30	50	633334	3500.01	CP-OFDM 256 QAM	1@1	14.59	12.14	16.55	21.55	0.1428
77	30	50	633334	3500.01	CP-OFDM 256 QAM	1@131	14.73	12.57	16.79	21.79	0.1511
77	30	50	635000	3525	CP-OFDM QPSK	64@32	19.52	17.6	21.68	26.68	0.4651
77	30	50	635000	3525	CP-OFDM QPSK	1@1	19.84	17.68	21.90	26.90	0.4901
77	30	50	635000	3525	CP-OFDM QPSK	1@131	19.62	17.68	21.77	26.77	0.4751
77	30	50	635000	3525	CP-OFDM 16 QAM	64@32	19.12	17.13	21.25	26.25	0.4215
77	30	50	635000	3525	CP-OFDM 16 QAM	1@1	19.16	17.19	21.30	26.30	0.4262
77	30	50	635000	3525	CP-OFDM 16 QAM	1@131	18.86	17.35	21.18	26.18	0.4150
77	30	50	635000	3525	CP-OFDM 64 QAM	64@32	17.69	15.57	19.77	24.77	0.2998
77	30	50	635000	3525	CP-OFDM 64 QAM	1@1	17.37	15.7	19.63	24.63	0.2901



77	30	50	635000	3525	CP-OFDM 64 QAM	1@131	17.04	15.83	19.49	24.49	0.2810
77	30	50	635000	3525	CP-OFDM 256 QAM	64@32	14.64	12.53	16.72	21.72	0.1487
77	30	50	635000	3525	CP-OFDM 256 QAM	1@1	14.52	12.76	16.74	21.74	0.1492
77	30	50	635000	3525	CP-OFDM 256 QAM	1@131	14.32	12.69	16.59	21.59	0.1443
77	30	60	632000	3480	CP-OFDM QPSK	81@40	19.66	17.74	21.82	26.82	0.4803
77	30	60	632000	3480	CP-OFDM QPSK	1@1	20.13	18.06	22.23	27.23	0.5281
77	30	60	632000	3480	CP-OFDM QPSK	1@160	19.69	18.03	21.95	26.95	0.4954
77	30	60	632000	3480	CP-OFDM 16 QAM	81@40	19.29	17.41	21.46	26.46	0.4427
77	30	60	632000	3480	CP-OFDM 16 QAM	1@1	19.37	17.81	21.67	26.67	0.4645
77	30	60	632000	3480	CP-OFDM 16 QAM	1@160	19.21	17.85	21.59	26.59	0.4564
77	30	60	632000	3480	CP-OFDM 64 QAM	81@40	17.75	15.79	19.89	24.89	0.3083
77	30	60	632000	3480	CP-OFDM 64 QAM	1@1	17.99	16.37	20.27	25.27	0.3362
77	30	60	632000	3480	CP-OFDM 64 QAM	1@160	17.31	16.21	19.81	24.81	0.3023
77	30	60	632000	3480	CP-OFDM 256 QAM	81@40	14.53	12.88	16.79	21.79	0.1511
77	30	60	632000	3480	CP-OFDM 256 QAM	1@1	14.98	12.94	17.09	22.09	0.1618
77	30	60	632000	3480	CP-OFDM 256 QAM	1@160	14.55	13.26	16.96	21.96	0.1571
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	19.55	18.13	21.91	26.91	0.4907
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	20.26	18.01	22.29	27.29	0.5357



77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	20.05	18.21	22.24	27.24	0.5293
77	30	60	633334	3500.01	CP-OFDM 16 QAM	81@40	19.1	17.68	21.46	26.46	0.4424
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	19.52	17.44	21.61	26.61	0.4585
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@160	19.35	17.62	21.58	26.58	0.4551
77	30	60	633334	3500.01	CP-OFDM 64 QAM	81@40	17.61	16.14	19.95	24.95	0.3124
77	30	60	633334	3500.01	CP-OFDM 64 QAM	1@1	17.82	16.02	20.02	25.02	0.3179
77	30	60	633334	3500.01	CP-OFDM 64 QAM	1@160	17.52	16.66	20.12	25.12	0.3252
77	30	60	633334	3500.01	CP-OFDM 256 QAM	81@40	14.65	13.2	17.00	22.00	0.1583
77	30	60	633334	3500.01	CP-OFDM 256 QAM	1@1	14.82	13.06	17.04	22.04	0.1599
77	30	60	633334	3500.01	CP-OFDM 256 QAM	1@160	14.69	13.43	17.12	22.12	0.1628
77	30	60	634666	3500.01	CP-OFDM QPSK	81@40	19.78	18.34	22.13	27.13	0.5164
77	30	60	634666	3500.01	CP-OFDM QPSK	1@1	19.94	18.48	22.28	27.28	0.5347
77	30	60	634666	3500.01	CP-OFDM QPSK	1@160	19.68	18.43	22.11	27.11	0.5141
77	30	60	634666	3500.01	CP-OFDM 16 QAM	81@40	19.21	17.81	21.58	26.58	0.4546
77	30	60	634666	3500.01	CP-OFDM 16 QAM	1@1	19.24	17.89	21.63	26.63	0.4600
77	30	60	634666	3500.01	CP-OFDM 16 QAM	1@160	19.1	18.03	21.61	26.61	0.4579
77	30	60	634666	3500.01	CP-OFDM 64 QAM	81@40	17.72	16.41	20.12	25.12	0.3254
77	30	60	634666	3500.01	CP-OFDM 64 QAM	1@1	17.51	16.34	19.97	24.97	0.3144



77	30	60	634666	3500.01	CP-OFDM 64 QAM	1@160	17.33	16.92	20.14	25.14	0.3266
77	30	60	634666	3519.99	CP-OFDM 256 QAM	81@40	14.83	13.42	17.19	22.19	0.1657
77	30	60	634666	3519.99	CP-OFDM 256 QAM	1@1	14.75	13.04	16.99	21.99	0.1581
77	30	60	634666	3519.99	CP-OFDM 256 QAM	1@160	14.46	13.72	17.12	22.12	0.1628
77	30	80	632668	3490.02	CP-OFDM QPSK	108@54	18.37	16.53	20.56	25.56	0.3595
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	20.44	18.25	22.49	27.49	0.5613
77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	19.63	18.38	22.06	27.06	0.5082
77	30	80	632668	3490.02	CP-OFDM 16 QAM	108@54	18.25	16.49	20.47	25.47	0.3523
77	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	19.94	17.56	21.92	26.92	0.4922
77	30	80	632668	3490.02	CP-OFDM 16 QAM	1@215	19.18	17.74	21.53	26.53	0.4497
77	30	80	632668	3490.02	CP-OFDM 64 QAM	108@54	17.79	16.11	20.04	25.04	0.3192
77	30	80	632668	3490.02	CP-OFDM 64 QAM	1@1	18.22	16.38	20.41	25.41	0.3473
77	30	80	632668	3490.02	CP-OFDM 64 QAM	1@215	17.56	16.22	19.95	24.95	0.3127
77	30	80	632668	3490.02	CP-OFDM 256 QAM	108@54	14.86	13.07	17.07	22.07	0.1609
77	30	80	632668	3490.02	CP-OFDM 256 QAM	1@1	15.32	13.32	17.44	22.44	0.1756
77	30	80	632668	3490.02	CP-OFDM 256 QAM	1@215	14.86	13.22	17.13	22.13	0.1632
77	30	80	633334	3500.01	CP-OFDM QPSK	108@54	19.81	18.22	22.10	27.10	0.5126
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	20.34	18.23	22.42	27.42	0.5524



77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	19.48	18.3	21.94	26.94	0.4943
77	30	80	633334	3500.01	CP-OFDM 16 QAM	108@54	19.8	18.21	22.09	27.09	0.5114
77	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	19.82	17.63	21.87	26.87	0.4866
77	30	80	633334	3500.01	CP-OFDM 16 QAM	1@215	19.23	17.97	21.66	26.66	0.4630
77	30	80	633334	3500.01	CP-OFDM 64 QAM	108@54	17.78	16.21	20.08	25.08	0.3218
77	30	80	633334	3500.01	CP-OFDM 64 QAM	1@1	18.18	16.24	20.33	25.33	0.3410
77	30	80	633334	3500.01	CP-OFDM 64 QAM	1@215	17.45	16.38	19.96	24.96	0.3132
77	30	80	633334	3500.01	CP-OFDM 256 QAM	108@54	14.78	13.22	17.08	22.08	0.1614
77	30	80	633334	3500.01	CP-OFDM 256 QAM	1@1	15.35	12.94	17.32	22.32	0.1706
77	30	80	633334	3500.01	CP-OFDM 256 QAM	1@215	14.46	13.29	16.92	21.92	0.1558
77	30	80	634000	3510	CP-OFDM QPSK	108@54	19.8	18.31	22.13	27.13	0.5163
77	30	80	634000	3510	CP-OFDM QPSK	1@1	20.33	18.11	22.37	27.37	0.5458
77	30	80	634000	3510	CP-OFDM QPSK	1@215	19.52	18.49	22.05	27.05	0.5065
77	30	80	634000	3510	CP-OFDM 16 QAM	108@54	19.36	17.93	21.71	26.71	0.4692
77	30	80	634000	3510	CP-OFDM 16 QAM	1@1	19.65	17.84	21.85	26.85	0.4841
77	30	80	634000	3510	CP-OFDM 16 QAM	1@215	18.94	17.69	21.37	26.37	0.4335
77	30	80	634000	3510	CP-OFDM 64 QAM	108@54	17.78	16.36	20.14	25.14	0.3264
77	30	80	634000	3510	CP-OFDM 64 QAM	1@1	18.23	16.15	20.32	25.32	0.3407



77	30	80	634000	3510	CP-OFDM 64 QAM	1@215	17.21	16.49	19.88	24.88	0.3073
77	30	80	634000	3510	CP-OFDM 256 QAM	108@54	14.87	13.45	17.23	22.23	0.1670
77	30	80	634000	3510	CP-OFDM 256 QAM	1@1	15.13	13.06	17.23	22.23	0.1670
77	30	80	634000	3510	CP-OFDM 256 QAM	1@215	14.35	13.41	16.92	21.92	0.1554
77	30	90	633000	3495	CP-OFDM QPSK	120@60	19.45	18.12	21.85	26.85	0.4837
77	30	90	633000	3495	CP-OFDM QPSK	1@1	20.39	18.64	22.61	27.61	0.5771
77	30	90	633000	3495	CP-OFDM QPSK	1@243	19.68	18.28	22.05	27.05	0.5066
77	30	90	633000	3495	CP-OFDM 16 QAM	120@60	19.15	17.69	21.49	26.49	0.4458
77	30	90	633000	3495	CP-OFDM 16 QAM	1@1	19.94	18.14	22.14	27.14	0.5180
77	30	90	633000	3495	CP-OFDM 16 QAM	1@243	18.96	17.84	21.45	26.45	0.4412
77	30	90	633000	3495	CP-OFDM 64 QAM	120@60	17.67	16.19	20.00	25.00	0.3164
77	30	90	633000	3495	CP-OFDM 64 QAM	1@1	18.25	16.36	20.42	25.42	0.3481
77	30	90	633000	3495	CP-OFDM 64 QAM	1@243	17.34	16.42	19.91	24.91	0.3101
77	30	90	633000	3495	CP-OFDM 256 QAM	120@60	14.71	13.19	17.03	22.03	0.1595
77	30	90	633000	3495	CP-OFDM 256 QAM	1@1	15.31	13.18	17.38	22.38	0.1732
77	30	90	633000	3495	CP-OFDM 256 QAM	1@243	14.52	13.62	17.10	22.10	0.1623
77	30	90	633334	3500.01	CP-OFDM QPSK	120@60	19.64	18.24	22.01	27.01	0.5019
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	20.66	18.21	22.62	27.62	0.5775



77	30	90	633334	3500.01	CP-OFDM QPSK	1@243	19.66	18.32	22.05	27.05	0.5072
77	30	90	633334	3500.01	CP-OFDM 16 QAM	120@60	19.16	17.61	21.46	26.46	0.4430
77	30	90	633334	3500.01	CP-OFDM 16 QAM	1@1	19.99	17.23	21.84	26.84	0.4826
77	30	90	633334	3500.01	CP-OFDM 16 QAM	1@243	19.14	17.99	21.61	26.61	0.4585
77	30	90	633334	3500.01	CP-OFDM 64 QAM	120@60	17.69	16.18	20.01	25.01	0.3170
77	30	90	633334	3500.01	CP-OFDM 64 QAM	1@1	18.27	16.41	20.45	25.45	0.3507
77	30	90	633334	3500.01	CP-OFDM 64 QAM	1@243	17.31	16.52	19.94	24.94	0.3121
77	30	90	633334	3500.01	CP-OFDM 256 QAM	120@60	14.68	13.17	17.00	22.00	0.1585
77	30	90	633334	3500.01	CP-OFDM 256 QAM	1@1	15.29	13.27	17.41	22.41	0.1740
77	30	90	633334	3500.01	CP-OFDM 256 QAM	1@243	14.54	13.49	17.06	22.06	0.1606
77	30	90	633666	3504.99	CP-OFDM QPSK	120@60	19.65	18.35	22.06	27.06	0.5080
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	20.36	18.26	22.45	27.45	0.5554
77	30	90	633666	3504.99	CP-OFDM QPSK	1@243	19.63	18.54	22.13	27.13	0.5163
77	30	90	633666	3504.99	CP-OFDM 16 QAM	120@60	19.29	17.82	21.63	26.63	0.4600
77	30	90	633666	3504.99	CP-OFDM 16 QAM	1@1	19.89	17.82	21.99	26.99	0.4997
77	30	90	633666	3504.99	CP-OFDM 16 QAM	1@243	19.22	17.86	21.60	26.60	0.4574
77	30	90	633666	3504.99	CP-OFDM 64 QAM	120@60	17.69	16.35	20.08	25.08	0.3222
77	30	90	633666	3504.99	CP-OFDM 64 QAM	1@1	18.37	16.21	20.43	25.43	0.3494

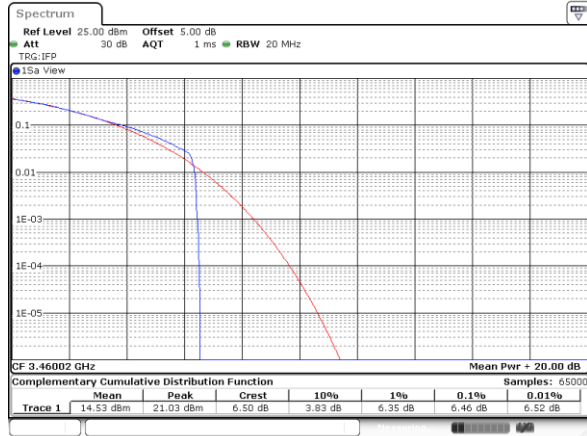
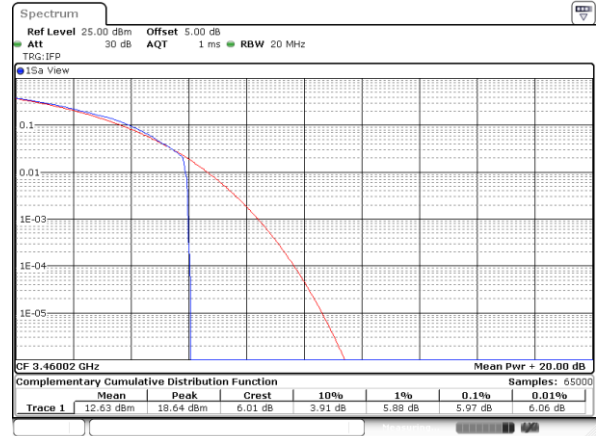
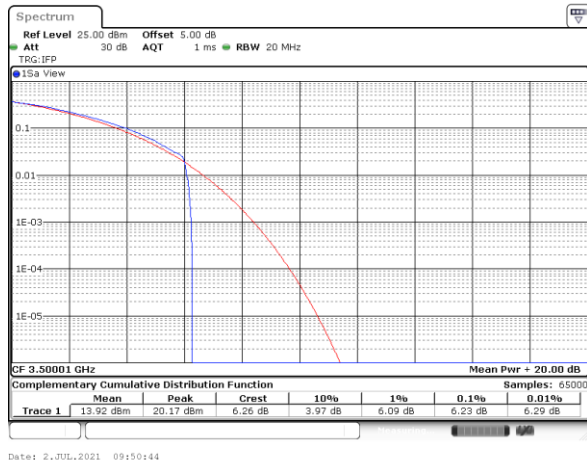
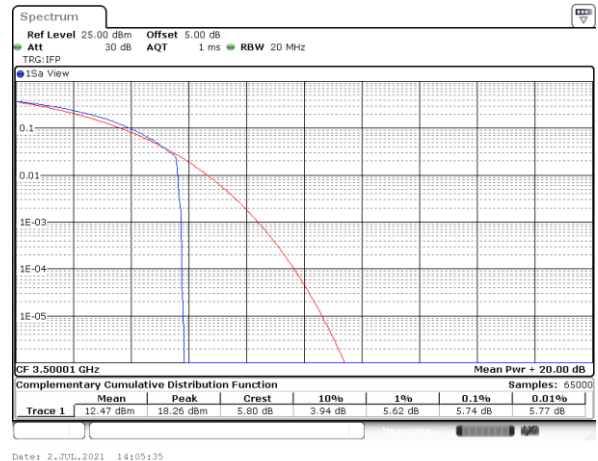
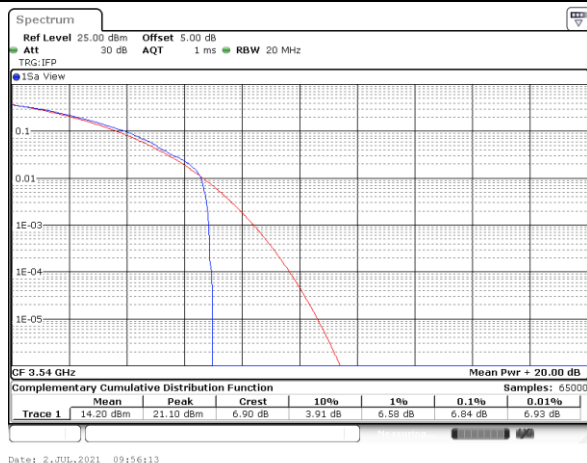
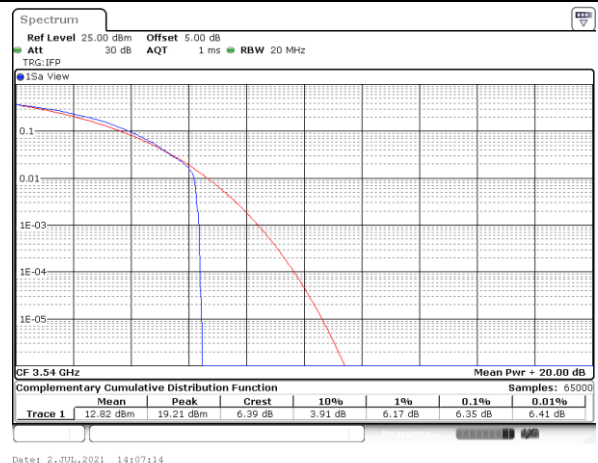


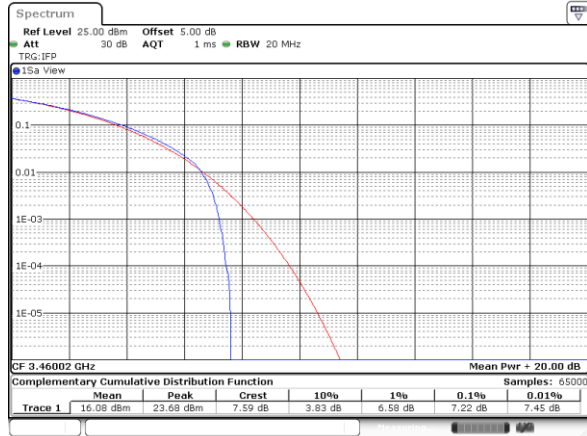
77	30	90	633666	3504.99	CP-OFDM 64 QAM	1@243	17.56	16.61	20.12	25.12	0.3252
77	30	90	633666	3504.99	CP-OFDM 256 QAM	120@60	14.82	13.39	17.17	22.17	0.1650
77	30	90	633666	3504.99	CP-OFDM 256 QAM	1@1	15.15	13.35	17.35	22.35	0.1719
77	30	90	633666	3504.99	CP-OFDM 256 QAM	1@243	14.59	13.67	17.16	22.16	0.1646
77	30	100	633334	3500.01	CP-OFDM QPSK	135@67	19.38	17.24	21.45	26.45	0.4417
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	20.08	17.28	21.91	26.91	0.4912
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	19.21	17.47	21.44	26.44	0.4402
77	30	100	633334	3500.01	CP-OFDM 16 QAM	135@67	18.88	16.78	20.97	25.97	0.3950
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	19.48	17.01	21.43	26.43	0.4394
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@271	18.78	16.84	20.93	25.93	0.3915
77	30	100	633334	3500.01	CP-OFDM 64 QAM	135@67	17.37	15.26	19.45	24.45	0.2788
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	17.73	15.61	19.81	24.81	0.3026
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@271	16.97	15.83	19.45	24.45	0.2785
77	30	100	633334	3500.01	CP-OFDM 256 QAM	135@67	14.4	12.22	16.46	21.46	0.1398
77	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	14.87	12.39	16.81	21.81	0.1519
77	30	100	633334	3500.01	CP-OFDM 256 QAM	1@271	14.17	12.73	16.52	21.52	0.1419

Peak-to-Average Ratio

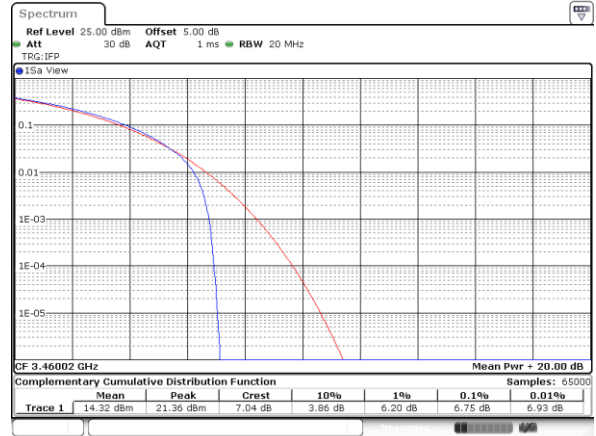
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Mod.	QPSK	QPSK			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.46	7.22			PASS
Middle CH	6.23	7.25			
Highest CH	6.84	7.07			

Mode	FR1 UL-MIMO n77 / 20MHz / CP-OFDM (Ant5)				
Mod.	QPSK	QPSK			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.97	6.75			PASS
Middle CH	5.74	6.70			
Highest CH	6.35	6.58			

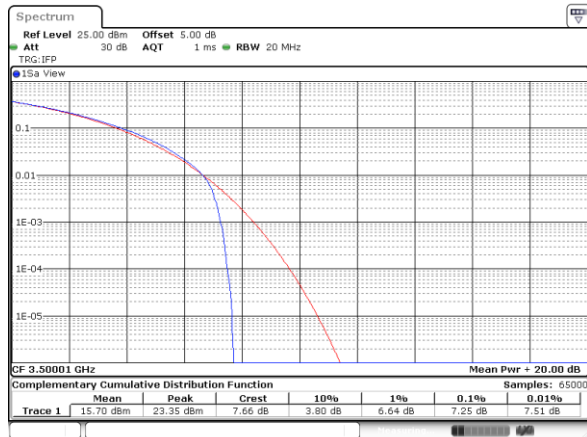
FR1 UL-MIMO n77 / 20MHz / CP-OFDM
QPSK(Ant4)
Lowest Channel / 1RB

QPSK(Ant5)
Lowest Channel / 1RB

Middle Channel / 1 RB

Middle Channel / 1 RB

Highest Channel / 1 RB

Highest Channel / 1 RB


FR1 UL-MIMO n77 / 20MHz / CP-OFDM
QPSK(Ant4)
Lowest Channel / Full RB


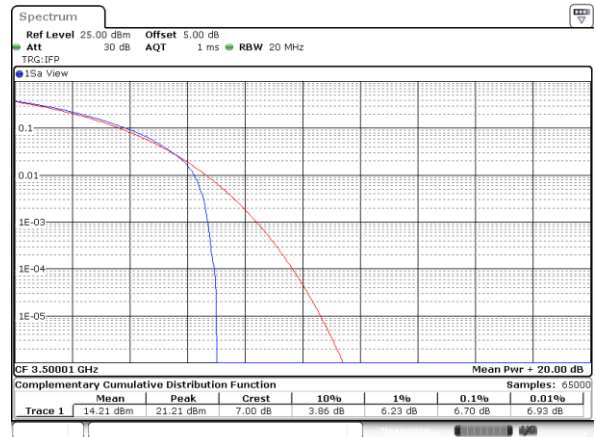
Date: 2.JUL.2021 09:41:59

QPSK(Ant5)
Lowest Channel / Full RB


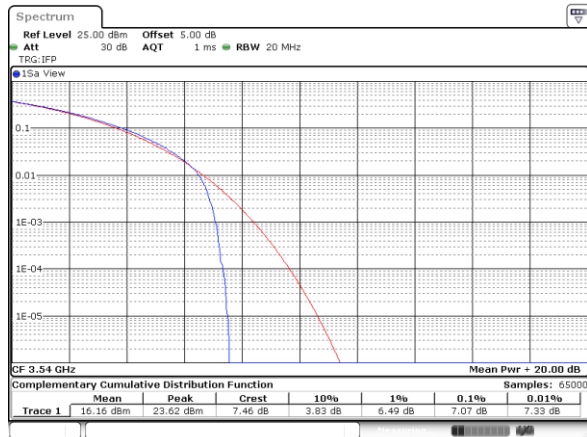
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Middle Channel / Full RB


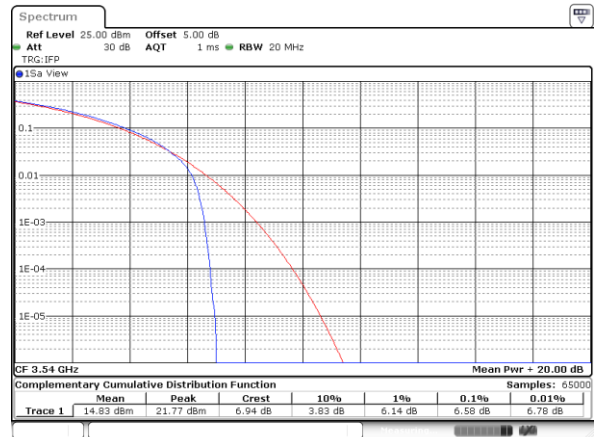
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Middle Channel / Full RB


Date: 2.JUL.2021 13:57:07

Highest Channel / Full RB


Date: 2.JUL.2021 10:01:40

Highest Channel / Full RB


Date: 2.JUL.2021 14:07:45

**26dB Bandwidth**

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	19.141	19.261	19.50	18.981	19.061	19.101	19.50	19.181

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	40.12	40.28	40.28	40.44	40.12	40.28	40.28	40.12

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	49.75	49.65	49.55	49.65	49.85	49.75	49.55	49.85

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	60.66	60.42	60.42	60.30	60.30	60.42	60.66	60.42

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	79.92	79.76	79.92	79.92	79.92	80.08	79.92	80.24

Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	90.27	90.27	90.27	90.27	90.27	90.27	90.27	90.45

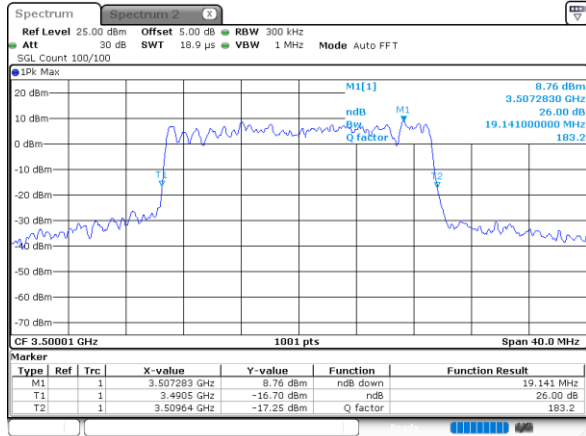


Mode	FR1 UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	100.70	100.30	100.30	100.50	100.30	100.30	100.50	100.70

FR1 UL-MIMO n77 / 20MHz / CP-OFDM (Ant4)

QPSK

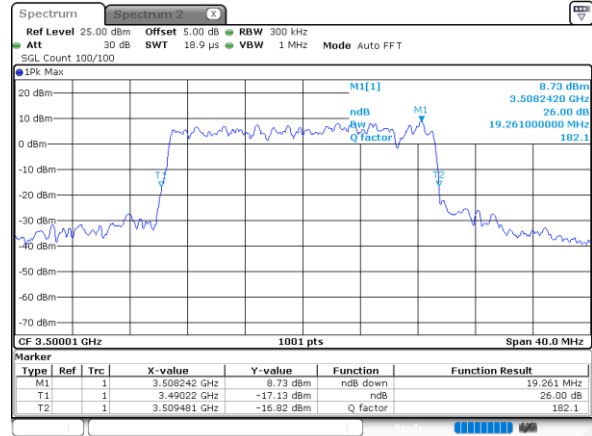
Middle Channel



Date: 1.JUL.2021 15:19:27

16QAM

Middle Channel



Date: 1.JUL.2021 15:20:03

64QAM

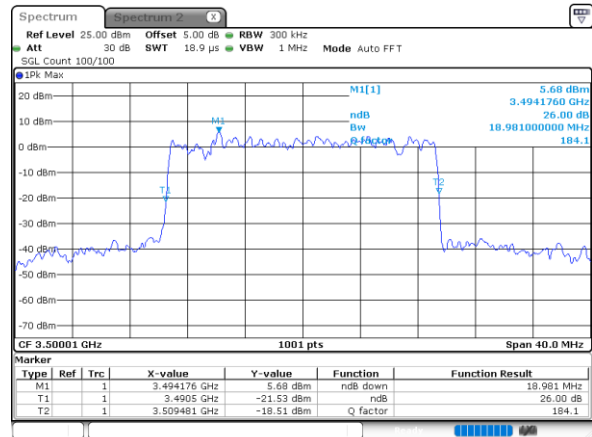
Middle Channel



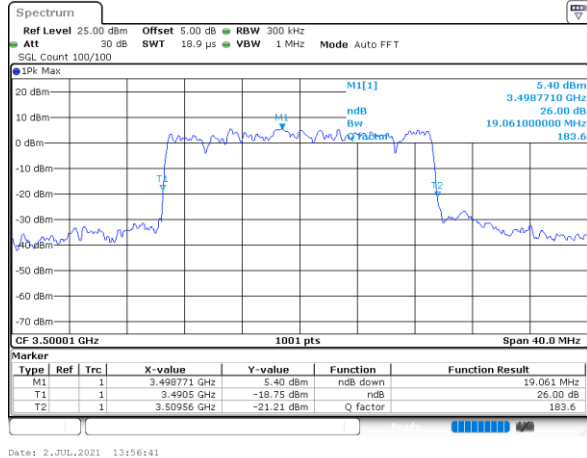
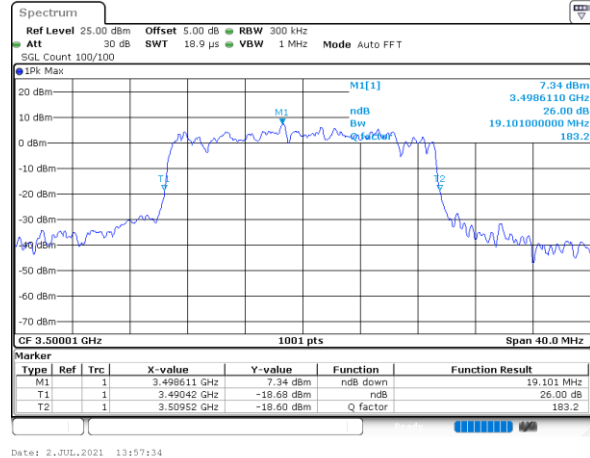
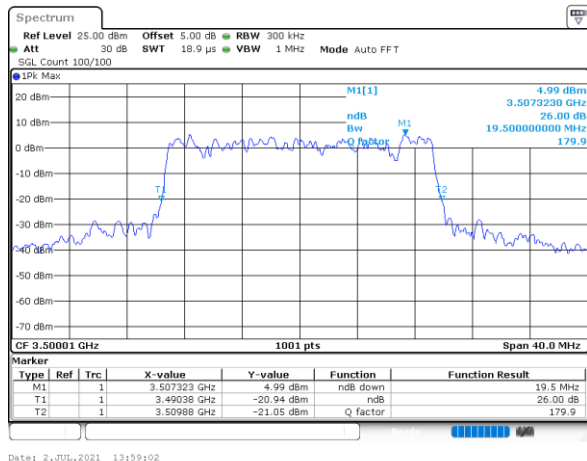
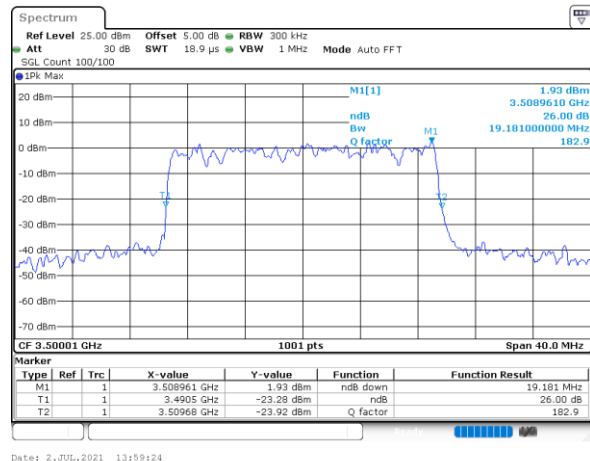
Date: 1.JUL.2021 15:20:21

256QAM

Middle Channel



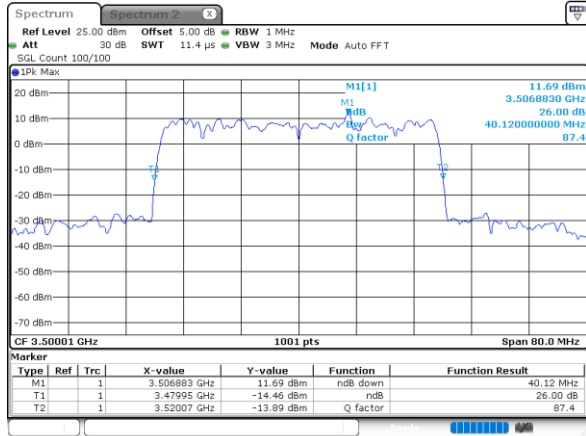
Date: 1.JUL.2021 15:20:38

FR1 UL-MIMO n77 / 20MHz / CP-OFDM (Ant5)
QPSK
Middle Channel

16QAM
Middle Channel

64QAM
Middle Channel

256QAM
Middle Channel


FR1 UL-MIMO n77 / 40MHz / CP-OFDM (Ant4)

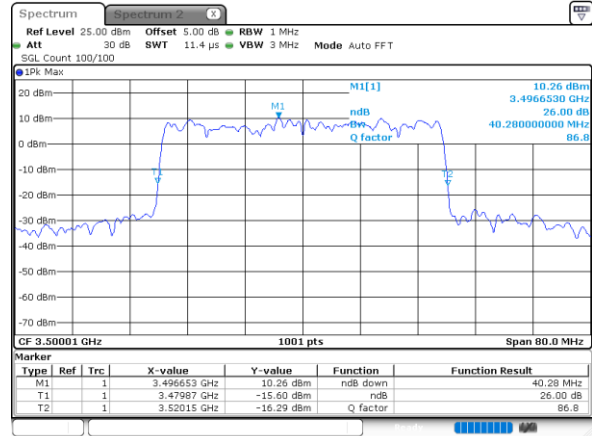
QPSK

Middle Channel



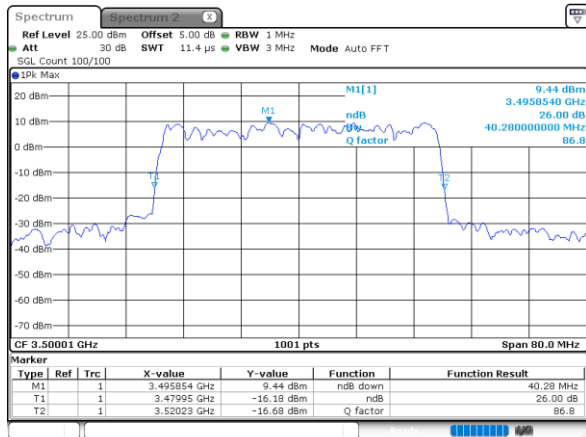
16QAM

Middle Channel



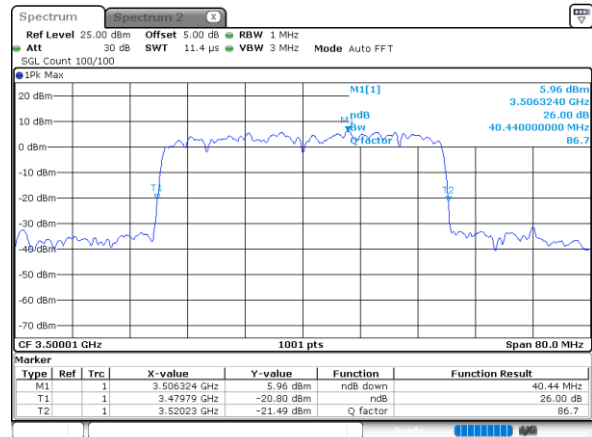
64QAM

Middle Channel



256QAM

Middle Channel

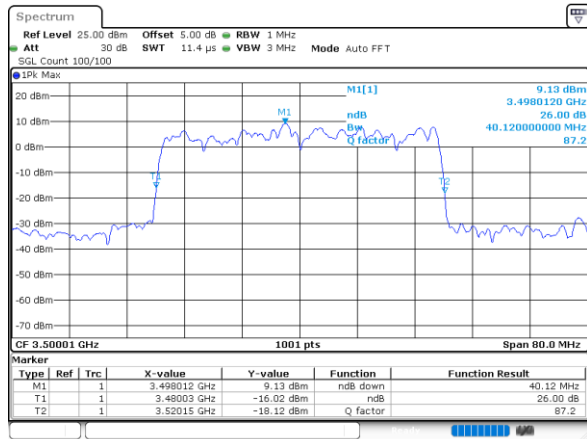




FR1 UL-MIMO n77 / 40MHz / CP-OFDM (Ant5)

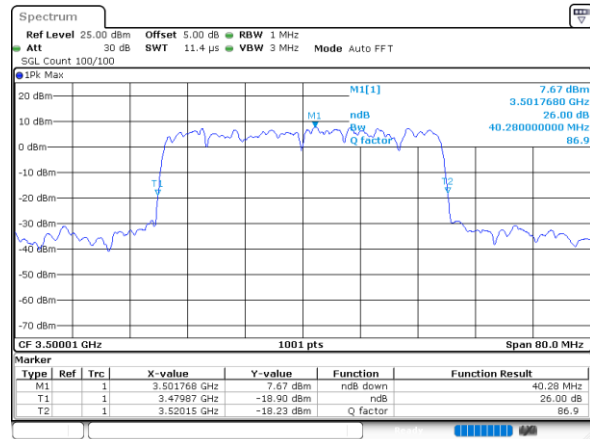
QPSK

Middle Channel



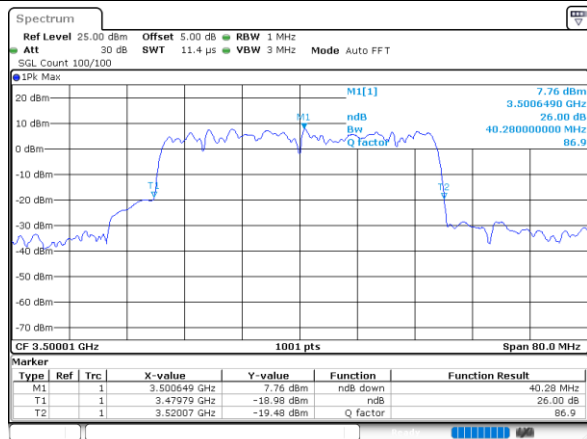
16QAM

Middle Channel



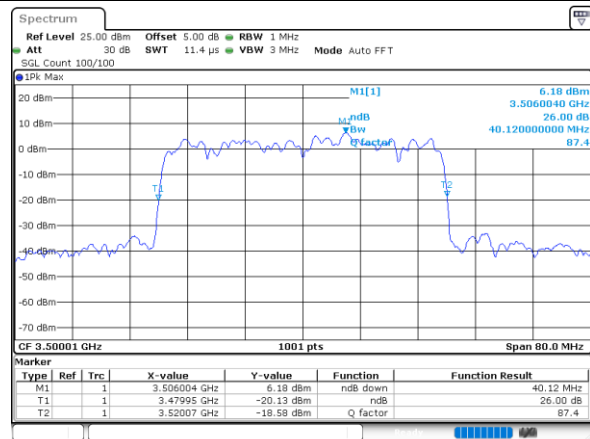
64QAM

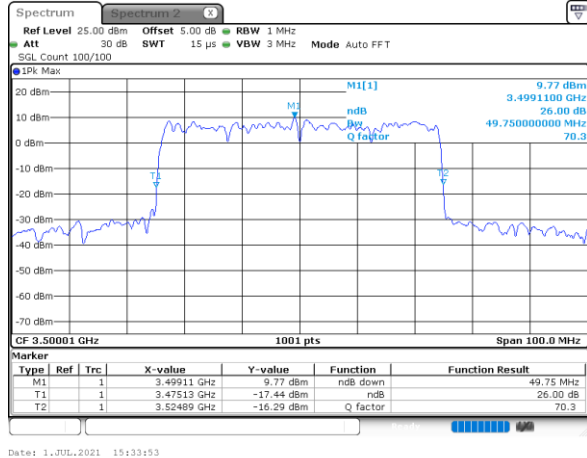
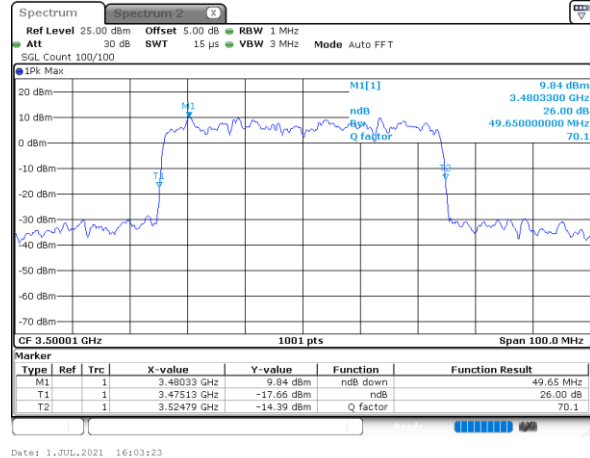
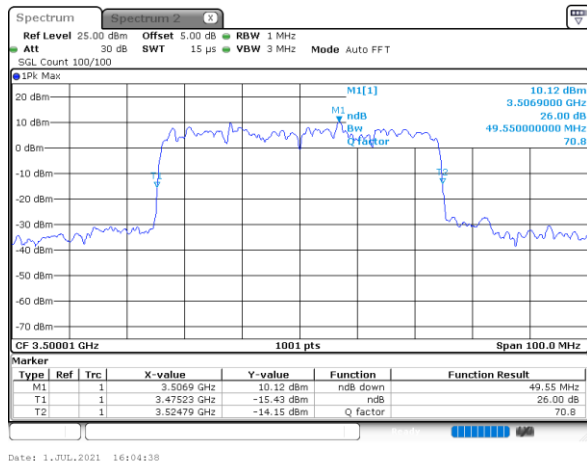
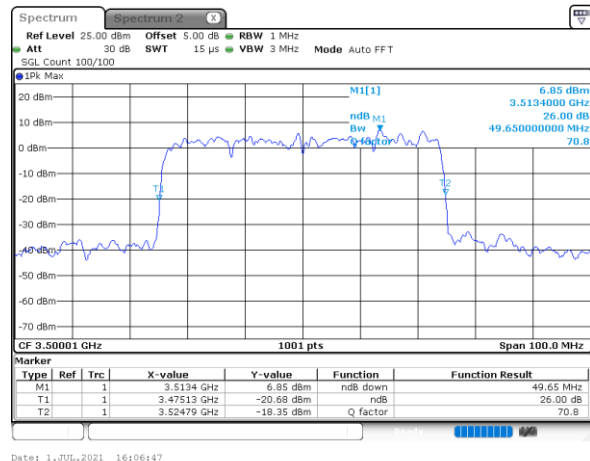
Middle Channel



256QAM

Middle Channel



FR1 UL-MIMO n77 / 50MHz / CP-OFDM (Ant4)
QPSK
Middle Channel

16QAM
Middle Channel

64QAM
Middle Channel

256QAM
Middle Channel




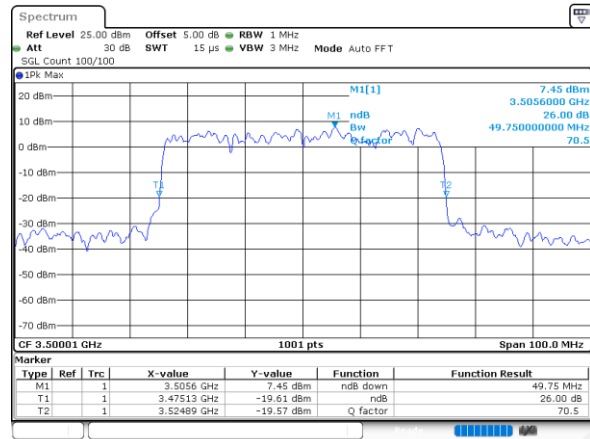
FR1 UL-MIMO n77 / 50MHz / CP-OFDM (Ant5)

QPSK

16QAM

Middle Channel

Middle Channel

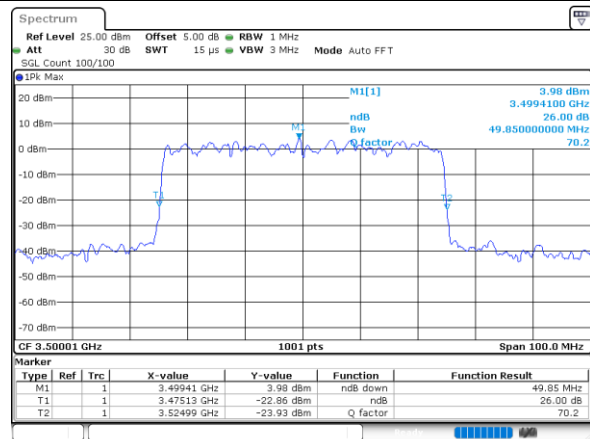
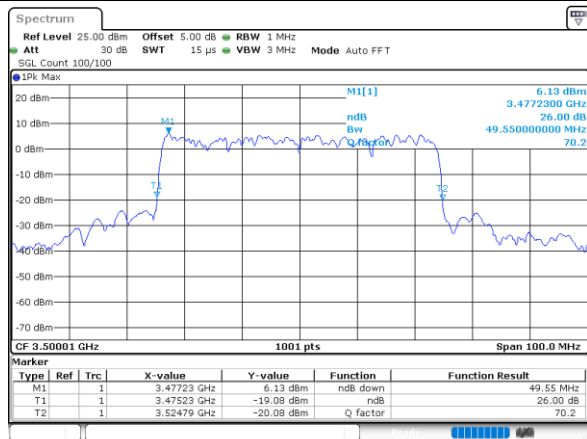


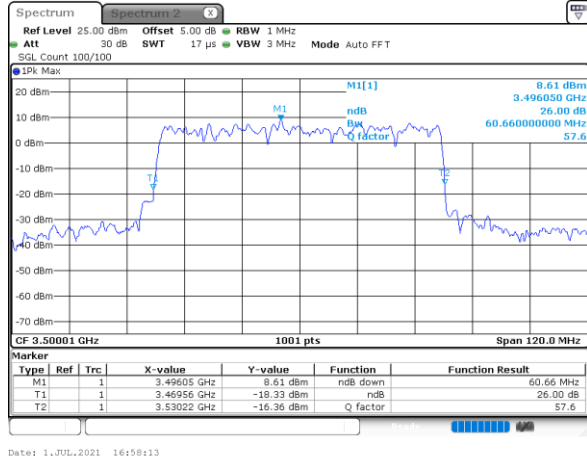
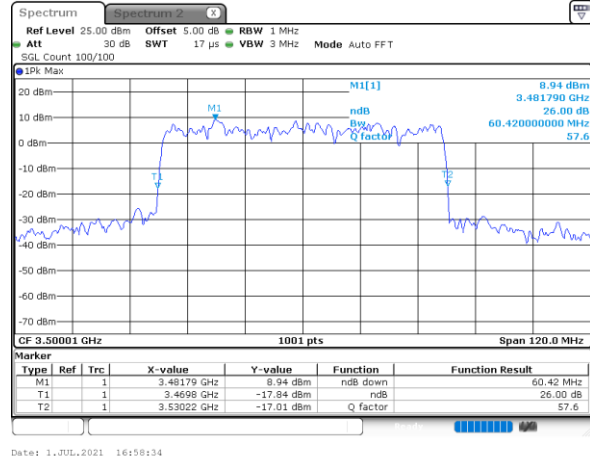
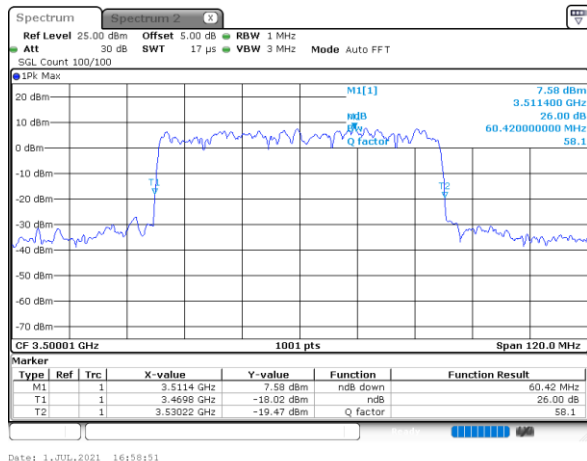
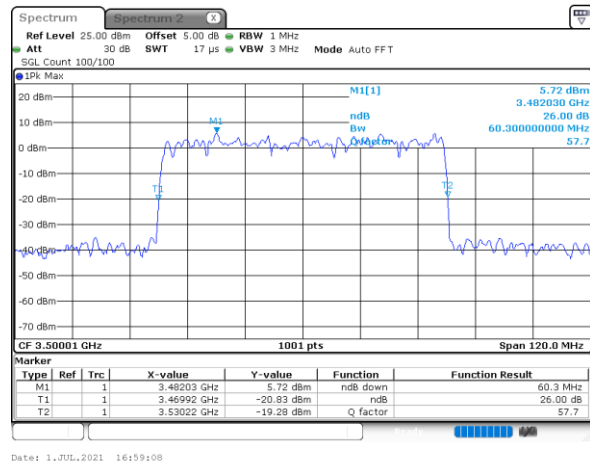
64QAM

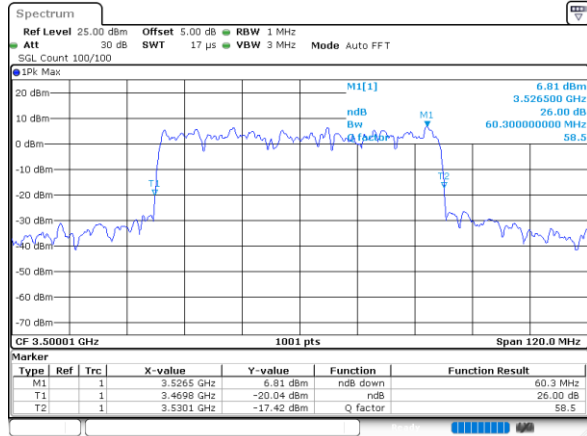
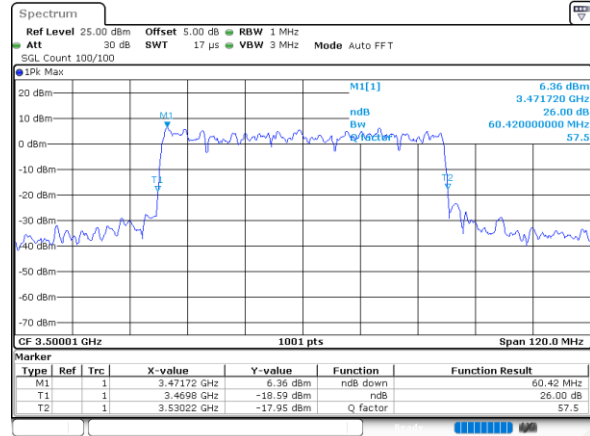
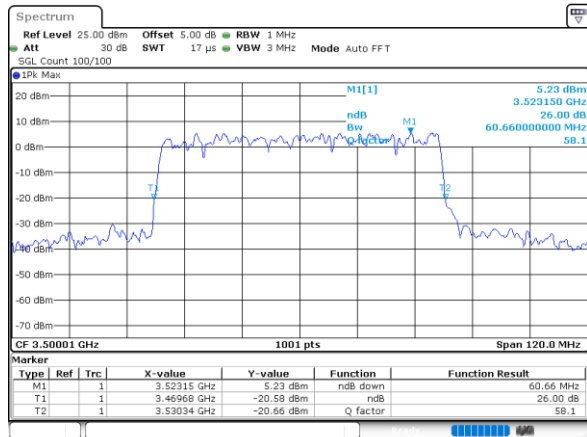
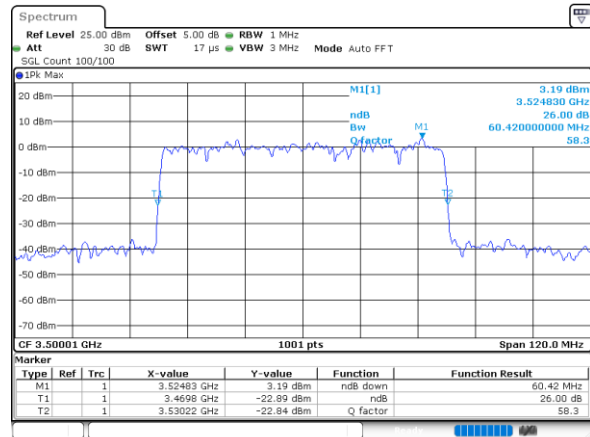
256QAM

Middle Channel

Middle Channel



FR1 UL-MIMO n77 / 60MHz / CP-OFDM (Ant4)
QPSK
Middle Channel

16QAM
Middle Channel

64QAM
Middle Channel

256QAM
Middle Channel


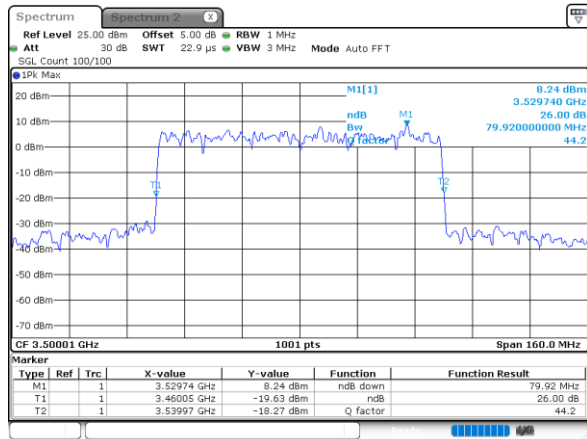
FR1 UL-MIMO n77 / 60MHz / CP-OFDM (Ant5)
QPSK
Middle Channel

16QAM
Middle Channel

64QAM
Middle Channel

256QAM
Middle Channel




FR1 UL-MIMO n77 / 80MHz / CP-OFDM (Ant4)

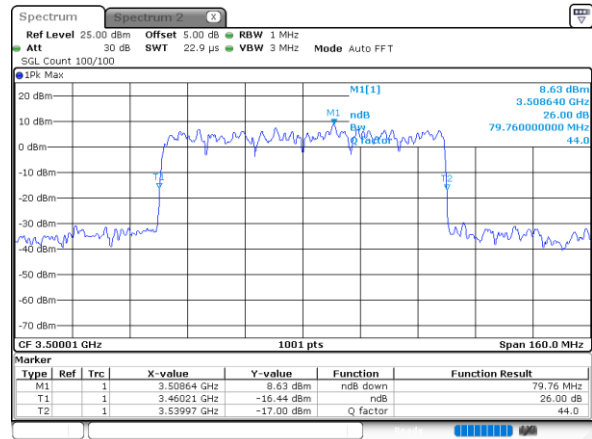
QPSK

Middle Channel



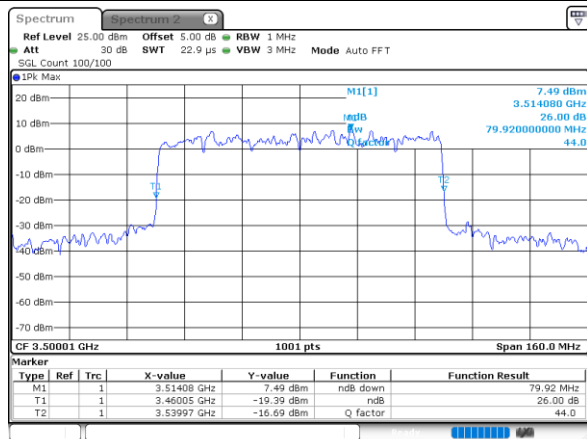
16QAM

Middle Channel



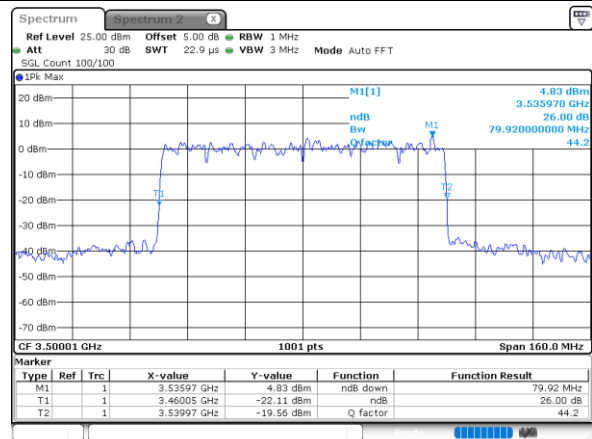
64QAM

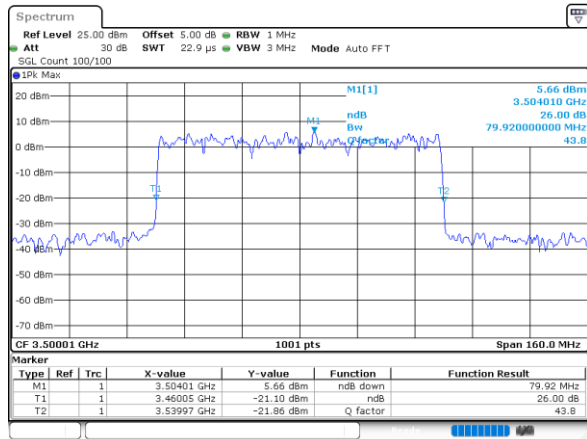
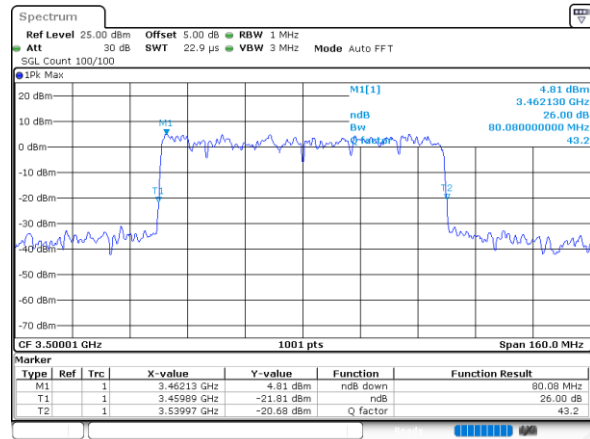
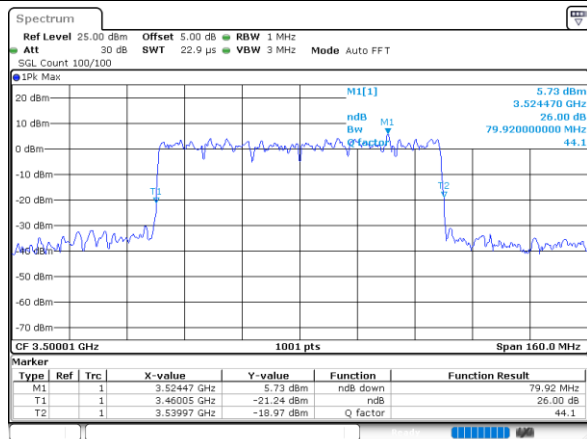
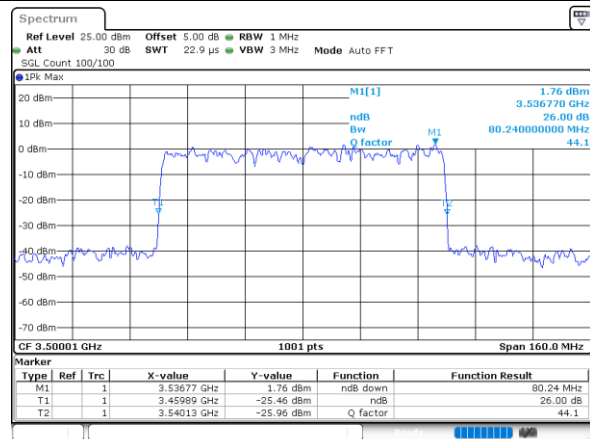
Middle Channel



256QAM

Middle Channel



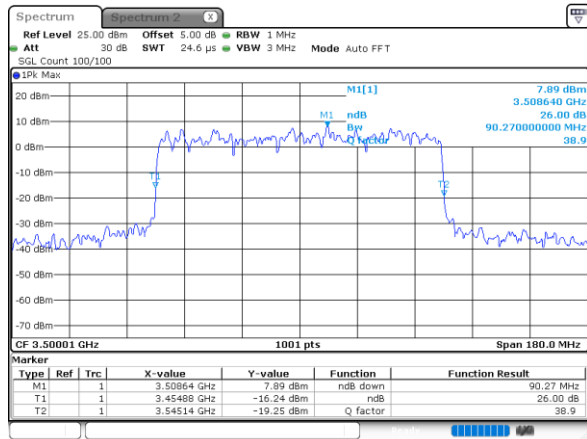
FR1 UL-MIMO n77 / 80MHz / CP-OFDM (Ant5)
QPSK
Middle Channel

16QAM
Middle Channel

64QAM
Middle Channel

256QAM
Middle Channel




FR1 UL-MIMO n77 / 90MHz / CP-OFDM (Ant4)

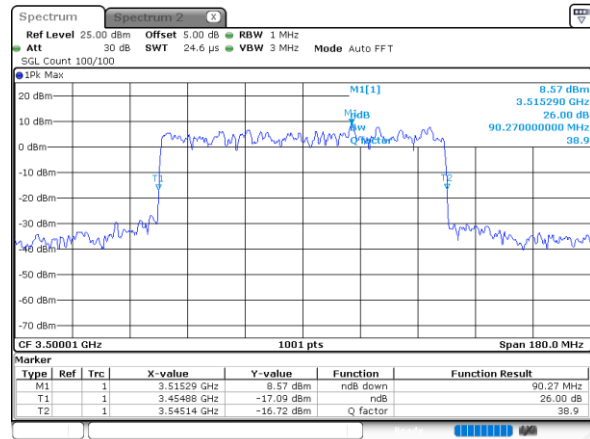
QPSK

Middle Channel



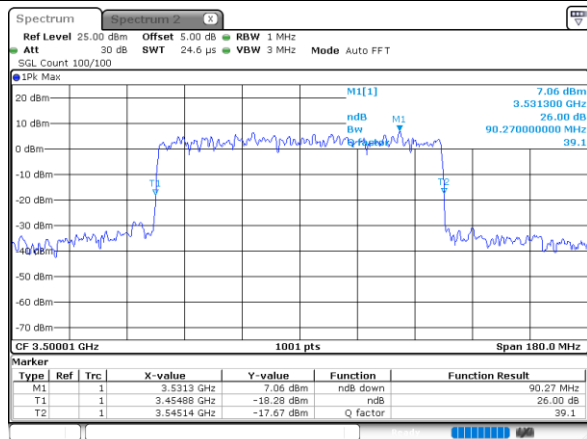
16QAM

Middle Channel



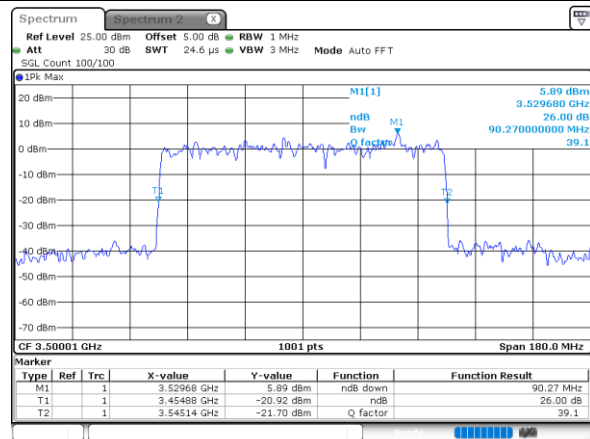
64QAM

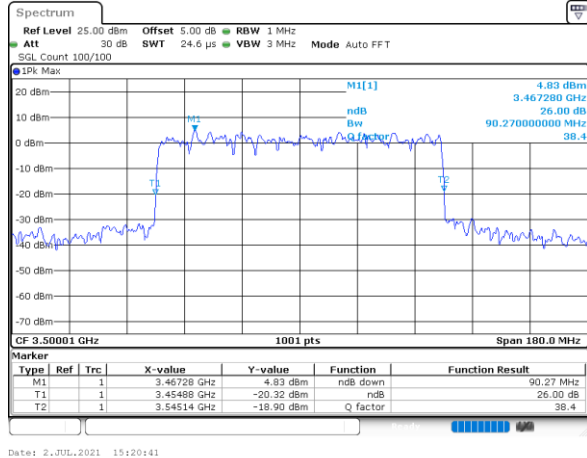
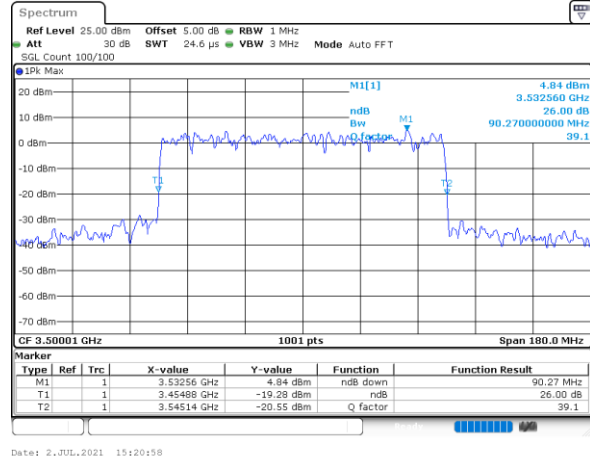
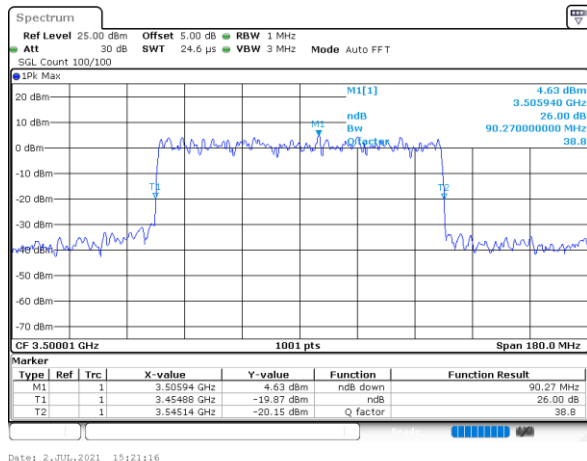
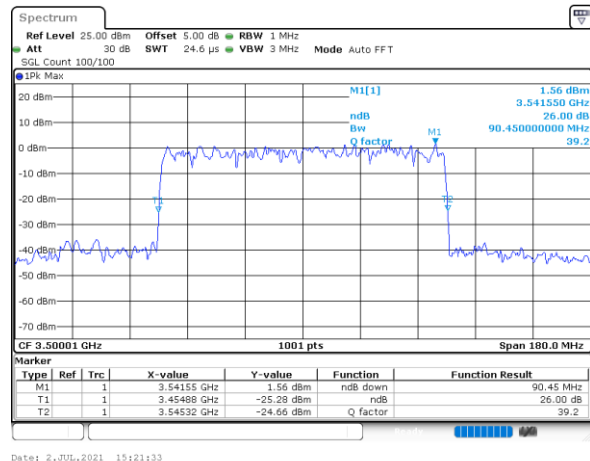
Middle Channel



256QAM

Middle Channel



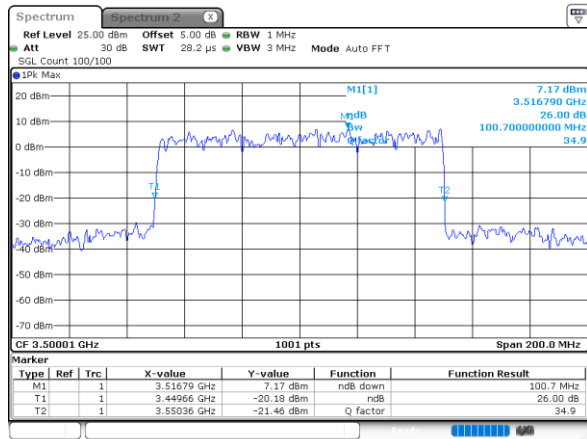
FR1 UL-MIMO n77 / 90MHz / CP-OFDM (Ant5)
QPSK
Middle Channel

16QAM
Middle Channel

64QAM
Middle Channel

256QAM
Middle Channel




FR1 UL-MIMO n77 / 100MHz / CP-OFDM (Ant4)

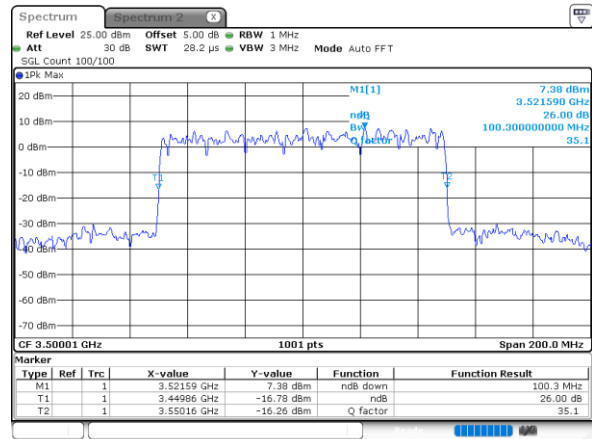
QPSK

Middle Channel



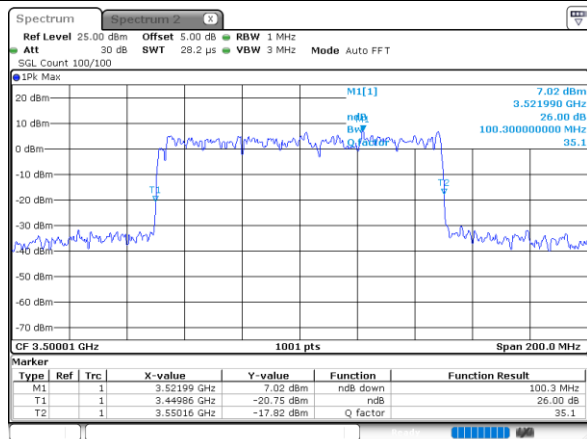
16QAM

Middle Channel



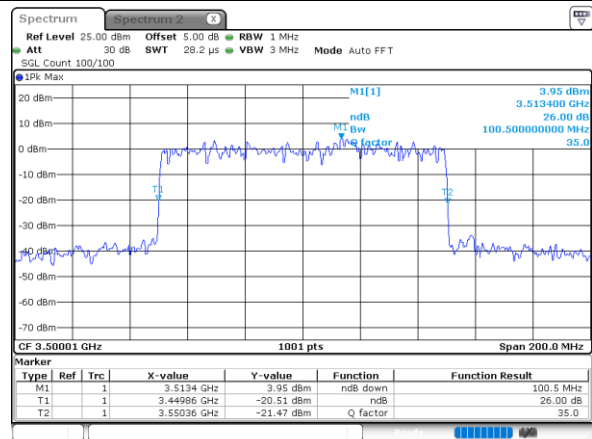
64QAM

Middle Channel



256QAM

Middle Channel





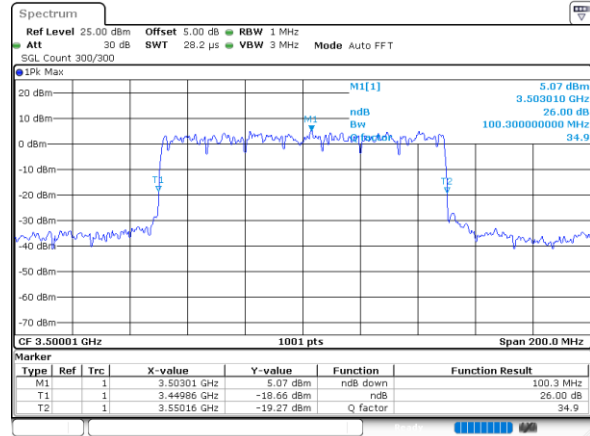
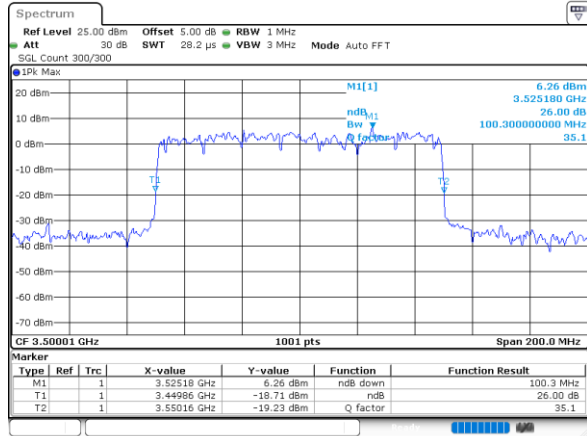
FR1 UL-MIMO n77 / 100MHz / CP-OFDM (Ant5)

QPSK

16QAM

Middle Channel

Middle Channel

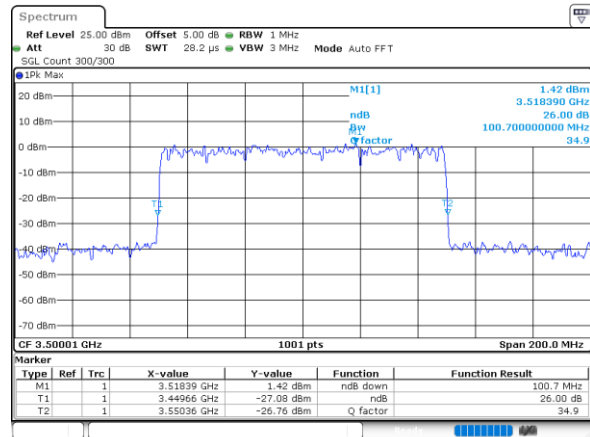
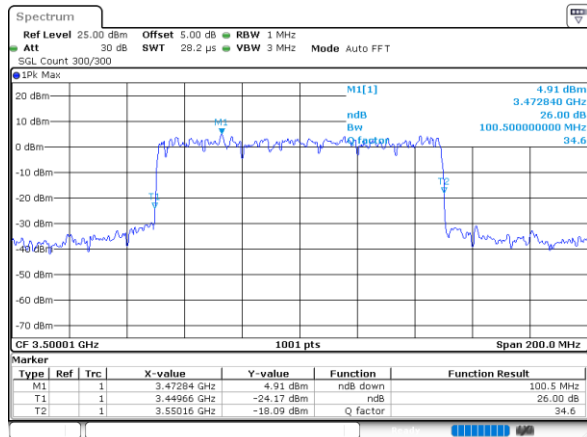


64QAM

256QAM

Middle Channel

Middle Channel



**Occupied Bandwidth**

Mode	FR1 UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	18.26	18.18	18.22	18.30	18.30	18.22	18.22	18.30

Mode	FR1 UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	37.88	38.20	37.88	37.96	38.20	37.88	37.88	37.72

Mode	FR1 UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	47.55	47.75	47.45	47.55	47.75	47.35	47.25	47.65

Mode	FR1 UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	58.02	57.90	58.14	58.26	57.78	58.02	58.14	58.02

Mode	FR1 UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	77.20	77.52	78.00	77.36	77.52	77.36	77.84	77.36

Mode	FR1 UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	87.57	87.39	87.75	87.57	87.03	87.39	87.57	87.39



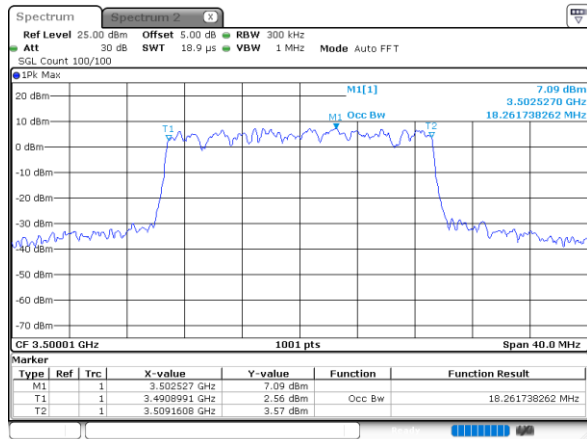
Mode	FR1 UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	97.30	97.10	96.90	96.90	97.30	97.50	97.50	97.50



FR1 UL-MIMO n77 / 20MHz / CP-OFDM (Ant4)

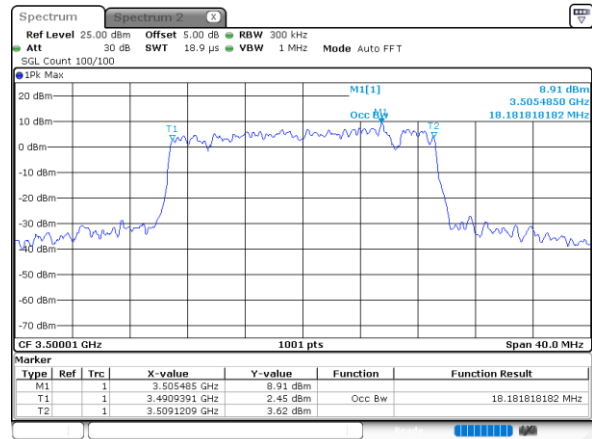
QPSK

Middle Channel



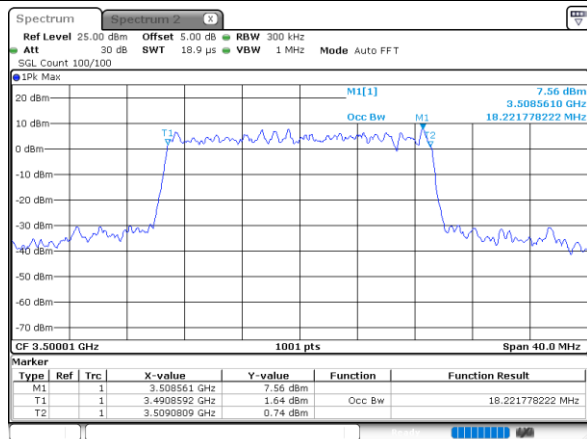
16QAM

Middle Channel



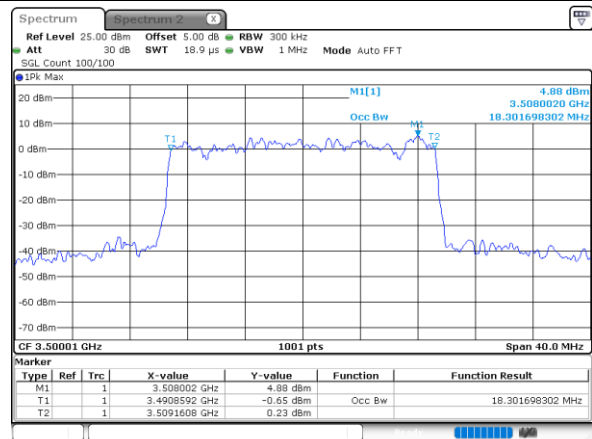
64QAM

Middle Channel



256QAM

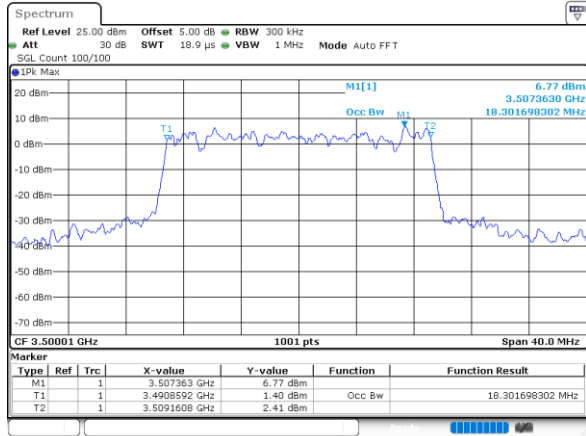
Middle Channel



FR1 UL-MIMO n77 / 20MHz / CP-OFDM (Ant5)

QPSK

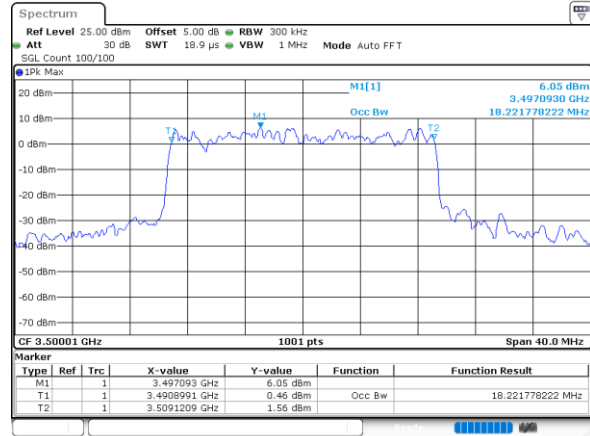
Middle Channel



Date: 2.JUL.2021 13:56:36

16QAM

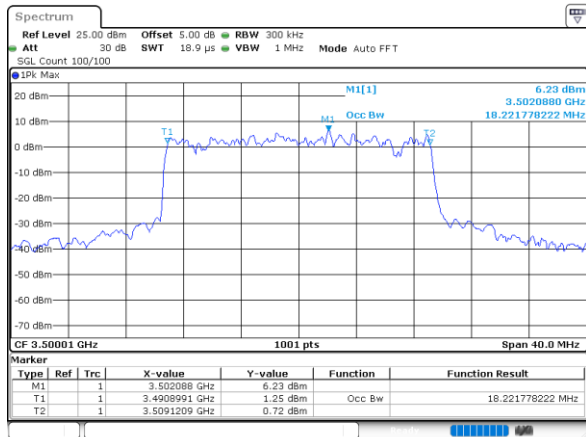
Middle Channel



Date: 2.JUL.2021 13:57:29

64QAM

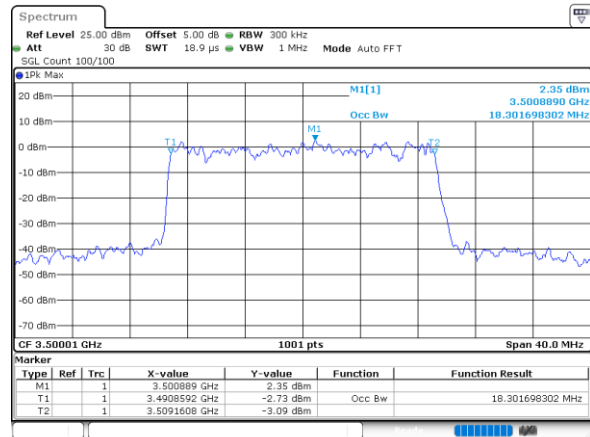
Middle Channel



Date: 2.JUL.2021 13:58:23

256QAM

Middle Channel

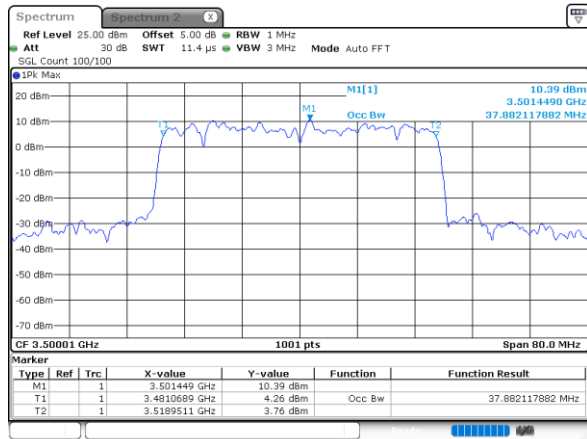


Date: 2.JUL.2021 13:59:19

FR1 UL-MIMO n77 / 40MHz / CP-OFDM (Ant4)

QPSK

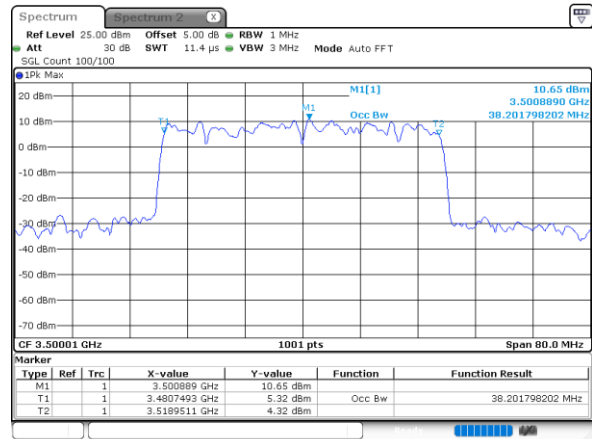
Middle Channel



Date: 1.JUL.2021 15:29:29

16QAM

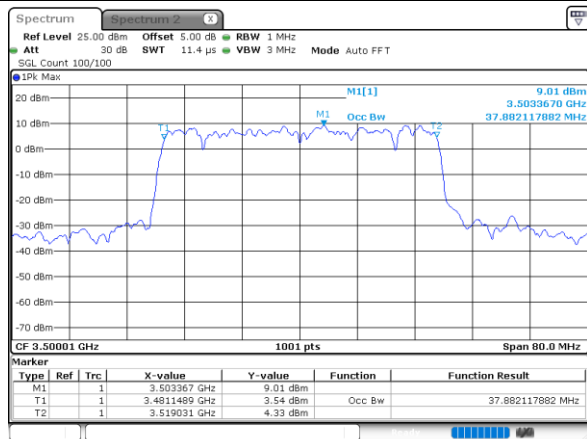
Middle Channel



Date: 1.JUL.2021 15:30:25

64QAM

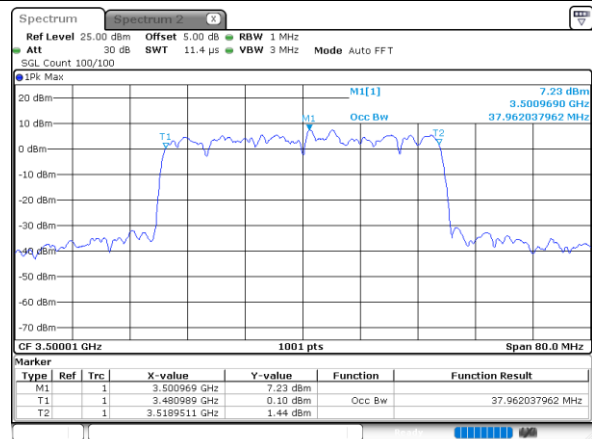
Middle Channel



Date: 1.JUL.2021 15:30:41

256QAM

Middle Channel



Date: 1.JUL.2021 15:31:04



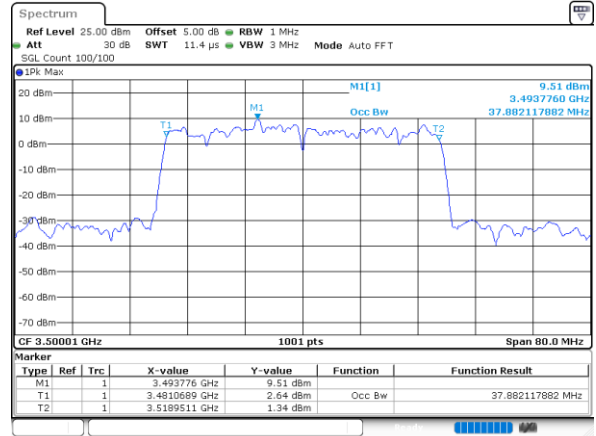
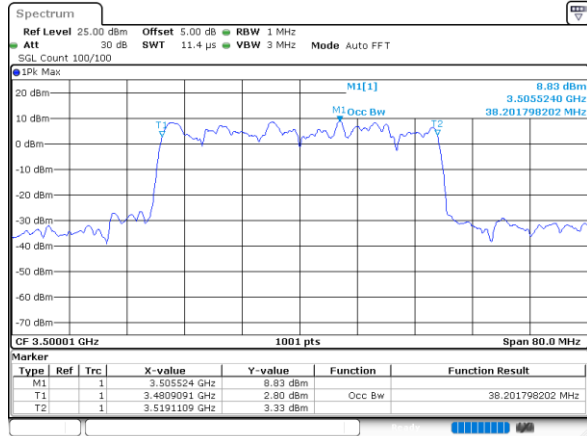
FR1 UL-MIMO n77 / 40MHz / CP-OFDM (Ant5)

QPSK

16QAM

Middle Channel

Middle Channel

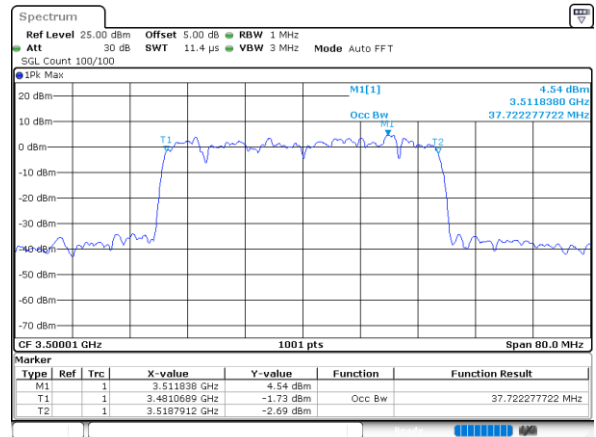
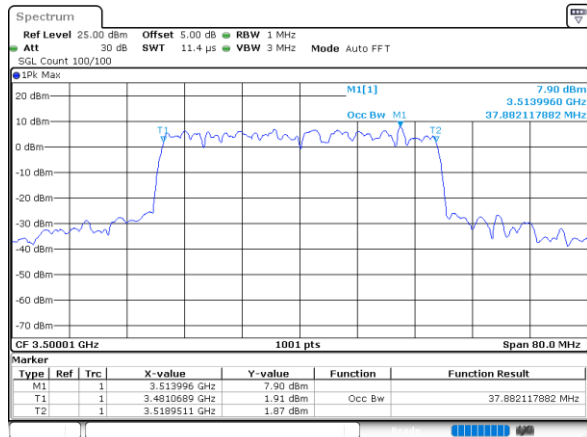


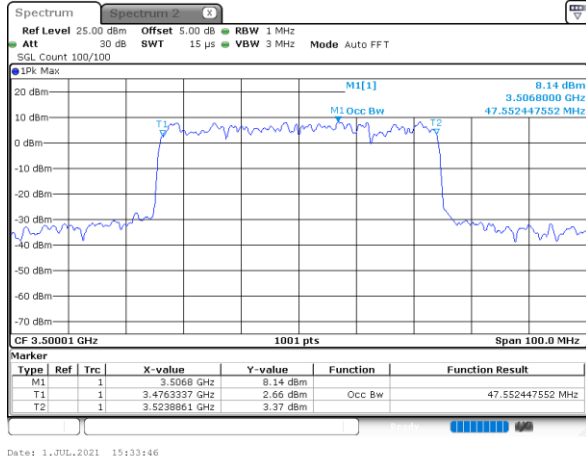
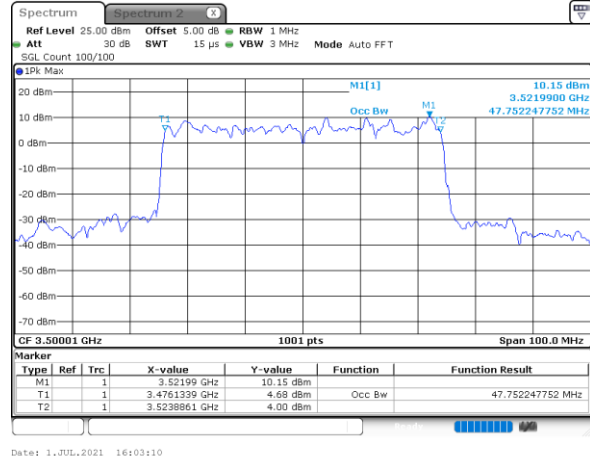
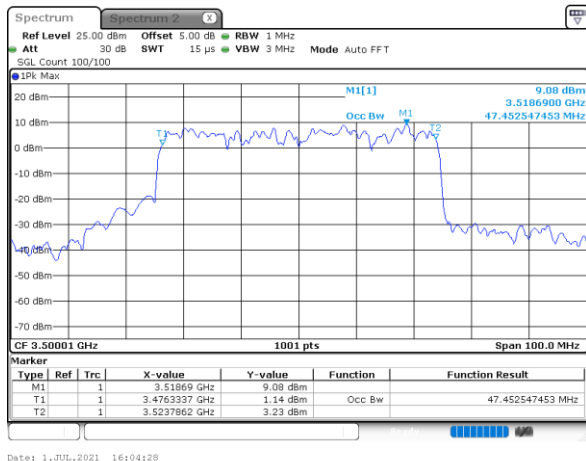
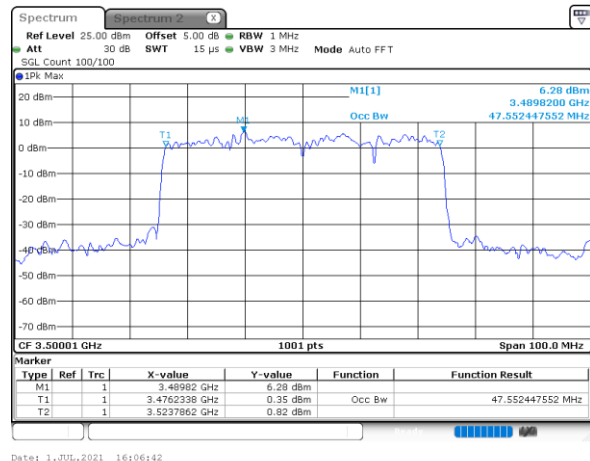
64QAM

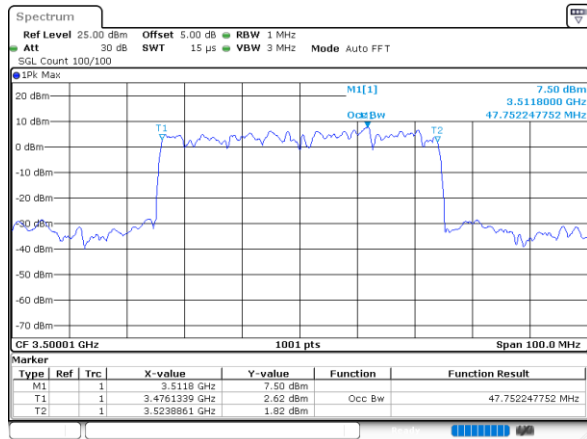
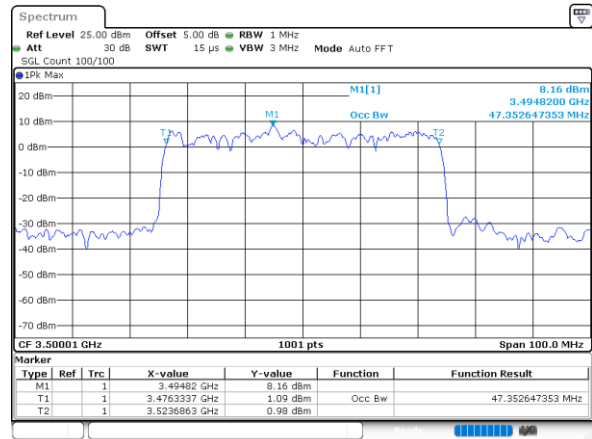
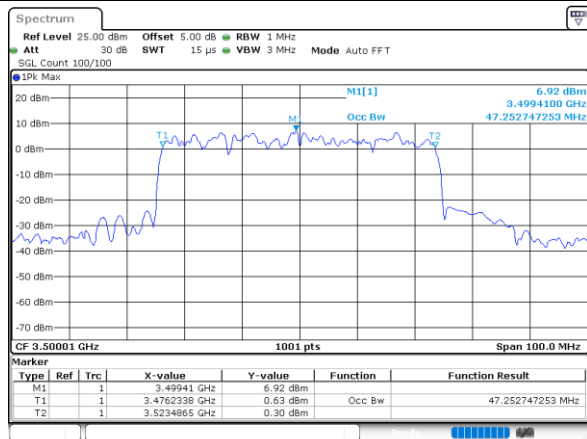
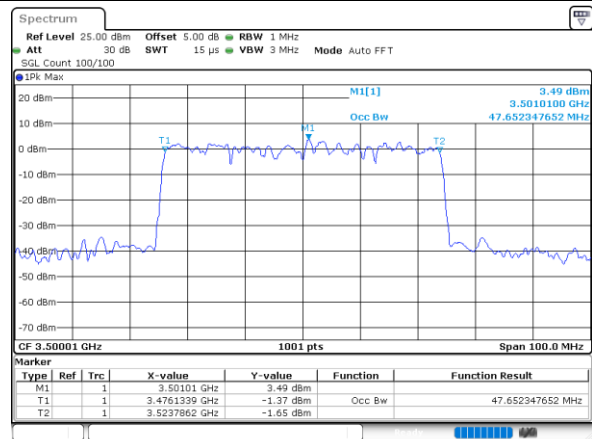
256QAM

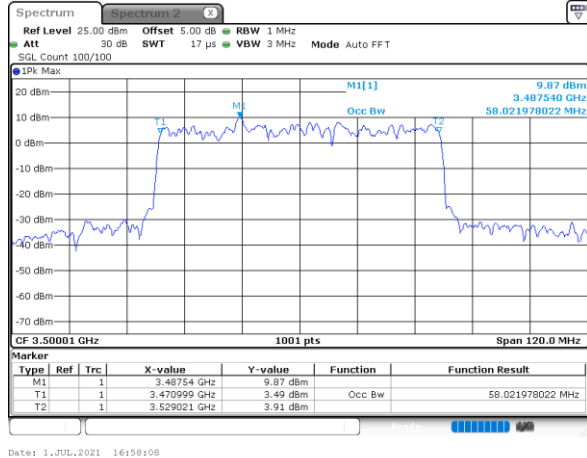
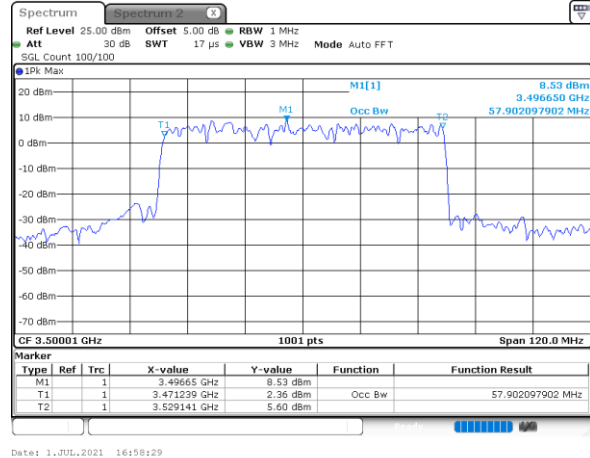
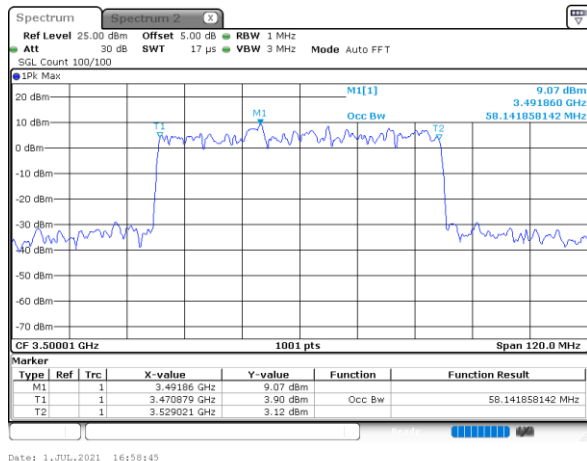
Middle Channel

Middle Channel



FR1 UL-MIMO n77 / 50MHz / CP-OFDM (ANT4)
QPSK
Middle Channel

16QAM
Middle Channel

64QAM
Middle Channel

256QAM
Middle Channel


FR1 UL-MIMO n77 / 50MHz / CP-OFDM (Ant5)
QPSK
Middle Channel

16QAM
Middle Channel

64QAM
Middle Channel

256QAM
Middle Channel


FR1 UL-MIMO n77 / 60MHz / CP-OFDM (ANT4)
QPSK
Middle Channel

16QAM
Middle Channel

64QAM
Middle Channel

256QAM
Middle Channel
