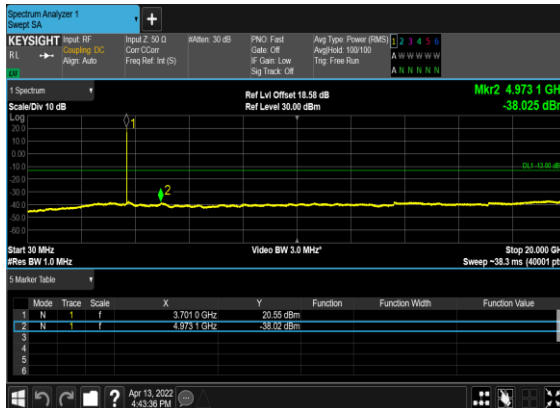
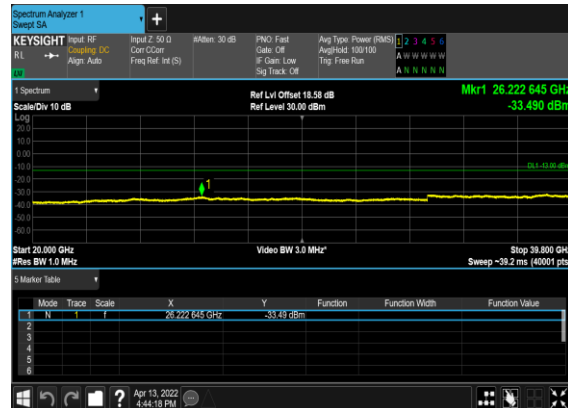


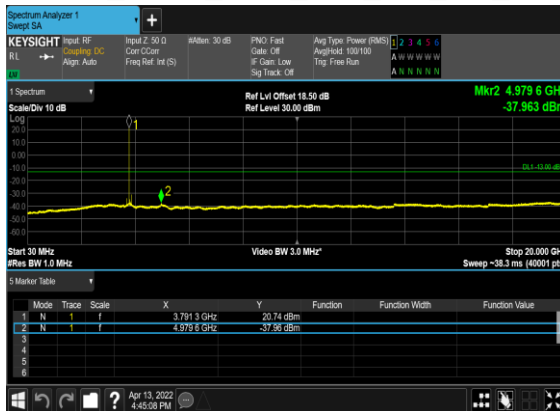
N77(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



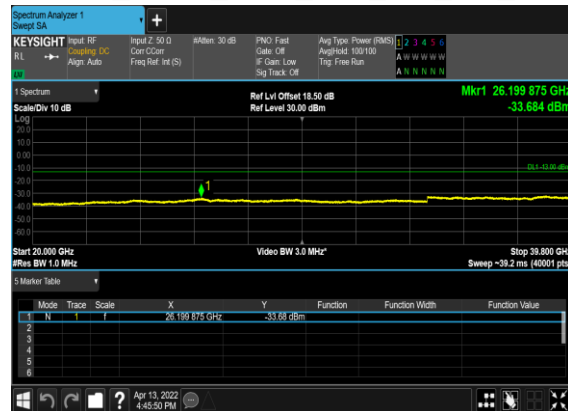
N77(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



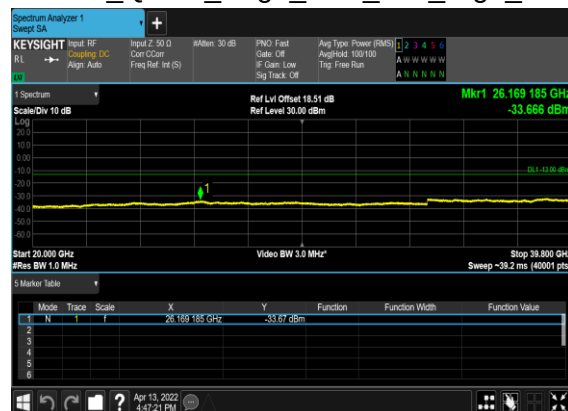
N77(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



N77(100M)_CP- OFDM_QPSK_Edge_1RB_Left_High_CH



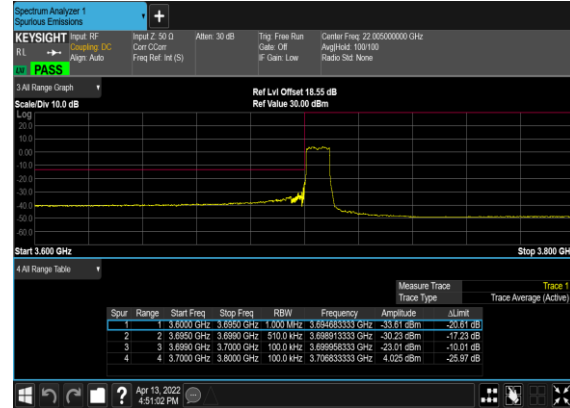
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	CP-OFDM QPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	CP-OFDM QPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	CP-OFDM QPSK	24@0	see graph	PASS
77	30	50	648334	3725.01	CP-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	CP-OFDM QPSK	133@0	see graph	PASS
77	30	50	663666	3954.99	CP-OFDM QPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	CP-OFDM QPSK	133@0	see graph	PASS
77	30	100	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	CP-OFDM QPSK	273@0	see graph	PASS
77	30	100	662000	3930.0	CP-OFDM QPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	CP-OFDM QPSK	273@0	see graph	PASS

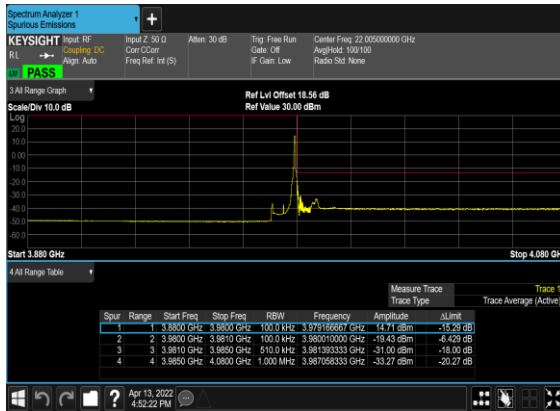
N77(10M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_CP- OFDM_QPSK_Outer_Full_Low_CH



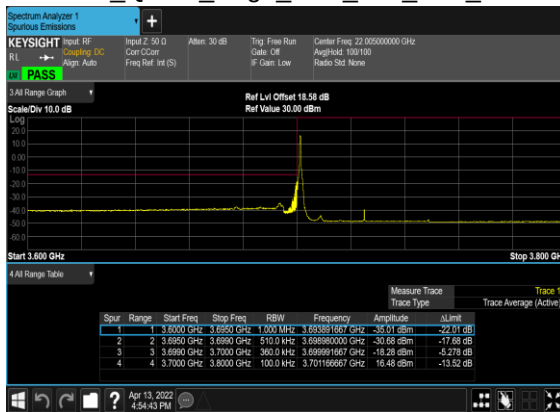
N77(10M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



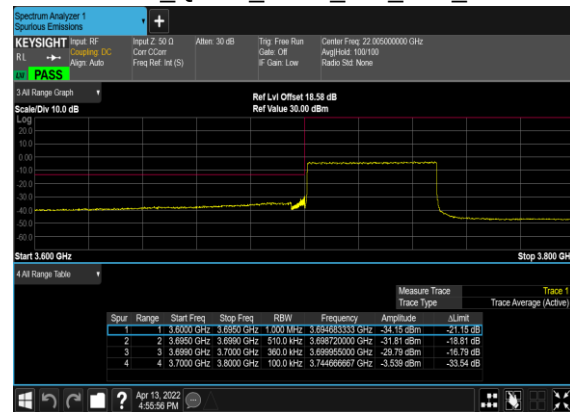
N77(10M)_CP- OFDM_QPSK_Outer_Full_High_CH



N77(50M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



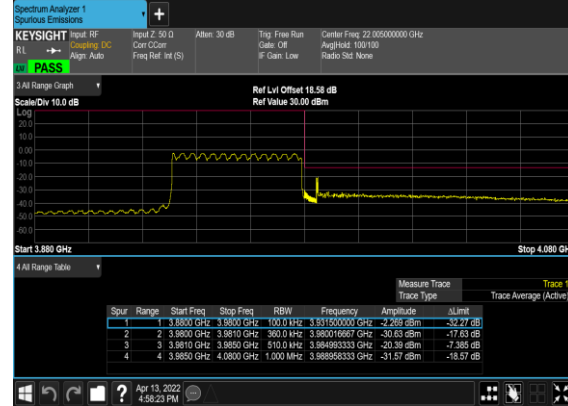
N77(50M)_CP- OFDM_QPSK_Outer_Full_Low_CH



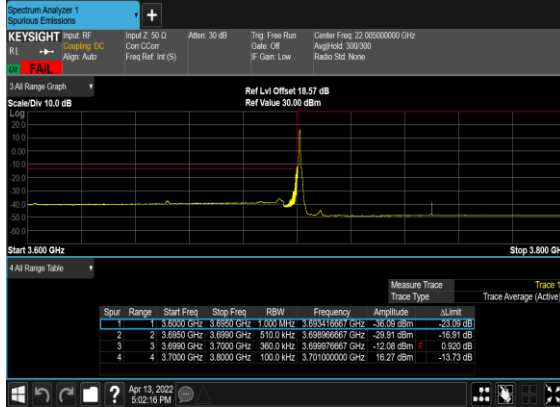
N77(50M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



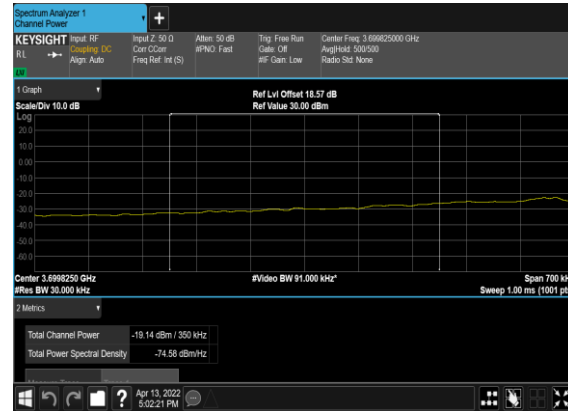
N77(50M)_CP-
OFDM_QPSK_Outer_Full_High_CH



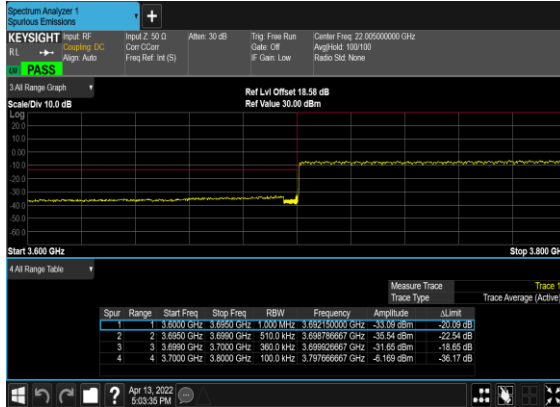
N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



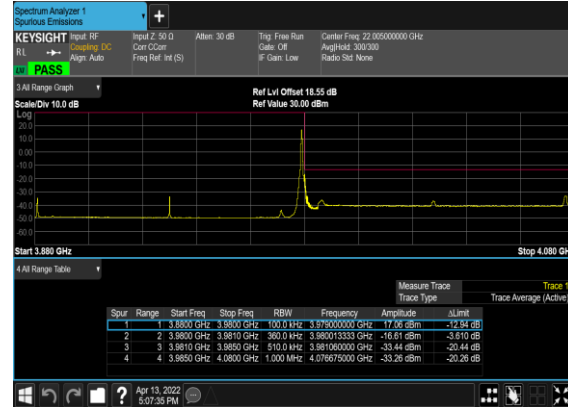
N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PA
SS



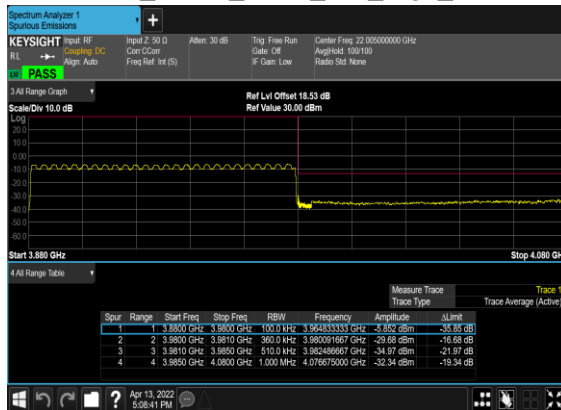
N77(100M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N77(100M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(100M)_CP-OFDM_QPSK_Outer_Full_High_CH



FR1 N78 (Ant8_Max Conducted Power)

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)= -2.1dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	12@6	26.67	24.57	0.2864
78	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	26.6	24.5	0.2818
78	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@22	26.54	24.44	0.2780
78	30	10	647000	3705	DFT-s-OFDM QPSK	12@6	26.57	24.47	0.2799
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	26.59	24.49	0.2812
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@22	26.6	24.5	0.2818
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	12@6	25.6	23.5	0.2239
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	25.45	23.35	0.2163
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@22	25.52	23.42	0.2198
78	30	10	647000	3705	DFT-s-OFDM 64 QAM	12@6	24.04	21.94	0.1563
78	30	10	647000	3705	DFT-s-OFDM 64 QAM	1@1	24.03	21.93	0.1560
78	30	10	647000	3705	DFT-s-OFDM 64 QAM	1@22	23.99	21.89	0.1545
78	30	10	647000	3705	DFT-s-OFDM 256 QAM	12@6	22.12	20.02	0.1005
78	30	10	647000	3705	DFT-s-OFDM 256 QAM	1@1	22.13	20.03	0.1007
78	30	10	647000	3705	DFT-s-OFDM 256 QAM	1@22	21.95	19.85	0.0966
78	30	10	647000	3705	CP-OFDM QPSK	12@6	25.14	23.04	0.2014
78	30	10	647000	3705	CP-OFDM QPSK	1@1	25.08	22.98	0.1986
78	30	10	647000	3705	CP-OFDM QPSK	1@22	25.15	23.05	0.2018
78	30	10	650000	3750	DFT-s-OFDM	12@6	26.57	24.47	0.2799

PI/2 BPSK									
78	30	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.51	24.41	0.2761
78	30	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@22	26.51	24.41	0.2761
78	30	10	650000	3750	DFT-s-OFDM QPSK	12@6	26.54	24.44	0.2780
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	26.5	24.4	0.2754
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@22	26.49	24.39	0.2748
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	12@6	25.55	23.45	0.2213
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.29	23.19	0.2084
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@22	25.31	23.21	0.2094
78	30	10	650000	3750	DFT-s-OFDM 64 QAM	12@6	23.85	21.75	0.1496
78	30	10	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.89	21.79	0.1510
78	30	10	650000	3750	DFT-s-OFDM 64 QAM	1@22	23.9	21.8	0.1514
78	30	10	650000	3750	DFT-s-OFDM 256 QAM	12@6	21.98	19.88	0.0973
78	30	10	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.8	19.7	0.0933
78	30	10	650000	3750	DFT-s-OFDM 256 QAM	1@22	21.78	19.68	0.0929
78	30	10	650000	3750	CP-OFDM QPSK	12@6	25.04	22.94	0.1968
78	30	10	650000	3750	CP-OFDM QPSK	1@1	25.21	23.11	0.2046
78	30	10	650000	3750	CP-OFDM QPSK	1@22	24.97	22.87	0.1936
78	30	10	653000	3795	DFT-s-OFDM PI/2 BPSK	12@6	26.62	24.52	0.2831
78	30	10	653000	3795	DFT-s-OFDM PI/2 BPSK	1@1	26.49	24.39	0.2748
78	30	10	653000	3795	DFT-s-OFDM PI/2 BPSK	1@22	26.45	24.35	0.2723
78	30	10	653000	3795	DFT-s-OFDM QPSK	12@6	26.5	24.4	0.2754

78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	26.5	24.4	0.2754
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@22	26.56	24.46	0.2793
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	12@6	25.59	23.49	0.2234
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	25.42	23.32	0.2148
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@22	25.37	23.27	0.2123
78	30	10	653000	3795	DFT-s-OFDM 64 QAM	12@6	24.06	21.96	0.1570
78	30	10	653000	3795	DFT-s-OFDM 64 QAM	1@1	24.03	21.93	0.1560
78	30	10	653000	3795	DFT-s-OFDM 64 QAM	1@22	23.98	21.88	0.1542
78	30	10	653000	3795	DFT-s-OFDM 256 QAM	12@6	21.93	19.83	0.0962
78	30	10	653000	3795	DFT-s-OFDM 256 QAM	1@1	21.93	19.83	0.0962
78	30	10	653000	3795	DFT-s-OFDM 256 QAM	1@22	21.81	19.71	0.0935
78	30	10	653000	3795	CP-OFDM QPSK	12@6	25.04	22.94	0.1968
78	30	10	653000	3795	CP-OFDM QPSK	1@1	24.95	22.85	0.1928
78	30	10	653000	3795	CP-OFDM QPSK	1@22	24.96	22.86	0.1932
78	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	18@9	26.62	24.52	0.2831
78	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	26.63	24.53	0.2838
78	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@36	26.57	24.47	0.2799
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	18@9	26.66	24.56	0.2858
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	26.66	24.56	0.2858
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@36	26.61	24.51	0.2825
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	18@9	25.57	23.47	0.2223
78	30	15	647168	3707.52	DFT-s-OFDM	1@1	25.52	23.42	0.2198

16 QAM									
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@36	25.42	23.32	0.2148
78	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	18@9	24.08	21.98	0.1578
78	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	1@1	23.93	21.83	0.1524
78	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	1@36	23.92	21.82	0.1521
78	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	18@9	22.06	19.96	0.0991
78	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	1@1	21.92	19.82	0.0959
78	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	1@36	21.83	19.73	0.0940
78	30	15	647168	3707.52	CP-OFDM QPSK	19@9	25.13	23.03	0.2009
78	30	15	647168	3707.52	CP-OFDM QPSK	1@1	25.17	23.07	0.2028
78	30	15	647168	3707.52	CP-OFDM QPSK	1@36	24.95	22.85	0.1928
78	30	15	650000	3750	DFT-s-OFDM PI/2 BPSK	18@9	26.51	24.41	0.2761
78	30	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.46	24.36	0.2729
78	30	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@36	26.46	24.36	0.2729
78	30	15	650000	3750	DFT-s-OFDM QPSK	18@9	26.53	24.43	0.2773
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	26.5	24.4	0.2754
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@36	26.48	24.38	0.2742
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	18@9	25.41	23.31	0.2143
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.31	23.21	0.2094
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@36	25.36	23.26	0.2118
78	30	15	650000	3750	DFT-s-OFDM 64 QAM	18@9	23.91	21.81	0.1517
78	30	15	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.79	21.69	0.1476

78	30	15	650000	3750	DFT-s-OFDM 64 QAM	1@36	23.95	21.85	0.1531
78	30	15	650000	3750	DFT-s-OFDM 256 QAM	18@9	21.91	19.81	0.0957
78	30	15	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.87	19.77	0.0948
78	30	15	650000	3750	DFT-s-OFDM 256 QAM	1@36	21.89	19.79	0.0953
78	30	15	650000	3750	CP-OFDM QPSK	19@9	24.98	22.88	0.1941
78	30	15	650000	3750	CP-OFDM QPSK	1@1	25.05	22.95	0.1972
78	30	15	650000	3750	CP-OFDM QPSK	1@36	24.8	22.7	0.1862
78	30	15	652832	3792.48	DFT-s-OFDM PI/2 BPSK	18@9	26.38	24.28	0.2679
78	30	15	652832	3792.48	DFT-s-OFDM PI/2 BPSK	1@1	26.36	24.26	0.2667
78	30	15	652832	3792.48	DFT-s-OFDM PI/2 BPSK	1@36	26.33	24.23	0.2649
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	18@9	26.4	24.3	0.2692
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@1	26.4	24.3	0.2692
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@36	26.35	24.25	0.2661
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	18@9	25.31	23.21	0.2094
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@1	25.25	23.15	0.2065
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@36	25.18	23.08	0.2032
78	30	15	652832	3792.48	DFT-s-OFDM 64 QAM	18@9	23.8	21.7	0.1479
78	30	15	652832	3792.48	DFT-s-OFDM 64 QAM	1@1	23.72	21.62	0.1452
78	30	15	652832	3792.48	DFT-s-OFDM 64 QAM	1@36	23.69	21.59	0.1442
78	30	15	652832	3792.48	DFT-s-OFDM 256 QAM	18@9	21.82	19.72	0.0938
78	30	15	652832	3792.48	DFT-s-OFDM 256 QAM	1@1	21.74	19.64	0.0920
78	30	15	652832	3792.48	DFT-s-OFDM	1@36	21.62	19.52	0.0895

256 QAM									
78	30	15	652832	3792.48	CP-OFDM QPSK	19@9	24.85	22.75	0.1884
78	30	15	652832	3792.48	CP-OFDM QPSK	1@1	24.77	22.67	0.1849
78	30	15	652832	3792.48	CP-OFDM QPSK	1@36	24.67	22.57	0.1807
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	25@12	26.56	24.46	0.2793
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	26.47	24.37	0.2735
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@49	26.46	24.36	0.2729
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	25@12	26.53	24.43	0.2773
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	26.47	24.37	0.2735
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@49	26.53	24.43	0.2773
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	25@12	25.52	23.42	0.2198
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	25.31	23.21	0.2094
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@49	25.25	23.15	0.2065
78	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	25@12	24.06	21.96	0.1570
78	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@1	23.92	21.82	0.1521
78	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@49	23.86	21.76	0.1500
78	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	25@12	21.93	19.83	0.0962
78	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@1	21.9	19.8	0.0955
78	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@49	21.83	19.73	0.0940
78	30	20	647334	3710.01	CP-OFDM QPSK	25@12	25.04	22.94	0.1968
78	30	20	647334	3710.01	CP-OFDM QPSK	1@1	25.1	23	0.1995
78	30	20	647334	3710.01	CP-OFDM QPSK	1@49	25.01	22.91	0.1954

78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	25@12	26.42	24.32	0.2704
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.37	24.27	0.2673
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@49	26.38	24.28	0.2679
78	30	20	650000	3750	DFT-s-OFDM QPSK	25@12	26.36	24.26	0.2667
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	26.32	24.22	0.2642
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@49	26.31	24.21	0.2636
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	25@12	25.39	23.29	0.2133
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.23	23.13	0.2056
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@49	25.15	23.05	0.2018
78	30	20	650000	3750	DFT-s-OFDM 64 QAM	25@12	23.94	21.84	0.1528
78	30	20	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.89	21.79	0.1510
78	30	20	650000	3750	DFT-s-OFDM 64 QAM	1@49	23.89	21.79	0.1510
78	30	20	650000	3750	DFT-s-OFDM 256 QAM	25@12	21.77	19.67	0.0927
78	30	20	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.88	19.78	0.0951
78	30	20	650000	3750	DFT-s-OFDM 256 QAM	1@49	21.7	19.6	0.0912
78	30	20	650000	3750	CP-OFDM QPSK	25@12	24.91	22.81	0.1910
78	30	20	650000	3750	CP-OFDM QPSK	1@1	24.93	22.83	0.1919
78	30	20	650000	3750	CP-OFDM QPSK	1@49	24.92	22.82	0.1914
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	25@12	26.54	24.44	0.2780
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@1	26.5	24.4	0.2754
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@49	26.45	24.35	0.2723
78	30	20	652666	3789.99	DFT-s-OFDM	25@12	26.49	24.39	0.2748

QPSK									
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	26.51	24.41	0.2761
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@49	26.42	24.32	0.2704
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	25@12	25.5	23.4	0.2188
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	25.58	23.48	0.2228
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@49	25.5	23.4	0.2188
78	30	20	652666	3789.99	DFT-s-OFDM 64 QAM	25@12	24.05	21.95	0.1567
78	30	20	652666	3789.99	DFT-s-OFDM 64 QAM	1@1	23.95	21.85	0.1531
78	30	20	652666	3789.99	DFT-s-OFDM 64 QAM	1@49	23.94	21.84	0.1528
78	30	20	652666	3789.99	DFT-s-OFDM 256 QAM	25@12	21.89	19.79	0.0953
78	30	20	652666	3789.99	DFT-s-OFDM 256 QAM	1@1	21.83	19.73	0.0940
78	30	20	652666	3789.99	DFT-s-OFDM 256 QAM	1@49	21.78	19.68	0.0929
78	30	20	652666	3789.99	CP-OFDM QPSK	25@12	25	22.9	0.1950
78	30	20	652666	3789.99	CP-OFDM QPSK	1@1	24.88	22.78	0.1897
78	30	20	652666	3789.99	CP-OFDM QPSK	1@49	24.97	22.87	0.1936
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	36@18	26.49	24.39	0.2748
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	26.61	24.51	0.2825
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@76	26.35	24.25	0.2661
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	36@18	26.5	24.4	0.2754
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	26.55	24.45	0.2786
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@76	26.42	24.32	0.2704
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	36@18	25.53	23.43	0.2203

78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	25.49	23.39	0.2183
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@76	25.31	23.21	0.2094
78	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	36@18	23.96	21.86	0.1535
78	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@1	24.07	21.97	0.1574
78	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@76	23.93	21.83	0.1524
78	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	36@18	21.9	19.8	0.0955
78	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@1	21.96	19.86	0.0968
78	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@76	21.81	19.71	0.0935
78	30	30	647668	3715.02	CP-OFDM QPSK	39@19	24.93	22.83	0.1919
78	30	30	647668	3715.02	CP-OFDM QPSK	1@1	24.97	22.87	0.1936
78	30	30	647668	3715.02	CP-OFDM QPSK	1@76	24.78	22.68	0.1854
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	36@18	26.45	24.35	0.2723
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.47	24.37	0.2735
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@76	26.47	24.37	0.2735
78	30	30	650000	3750	DFT-s-OFDM QPSK	36@18	26.46	24.36	0.2729
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	26.47	24.37	0.2735
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@76	26.49	24.39	0.2748
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	36@18	25.45	23.35	0.2163
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.35	23.25	0.2113
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@76	25.4	23.3	0.2138
78	30	30	650000	3750	DFT-s-OFDM 64 QAM	36@18	23.9	21.8	0.1514
78	30	30	650000	3750	DFT-s-OFDM	1@1	24	21.9	0.1549

64 QAM									
78	30	30	650000	3750	DFT-s-OFDM 64 QAM	1@76	23.82	21.72	0.1486
78	30	30	650000	3750	DFT-s-OFDM 256 QAM	36@18	21.87	19.77	0.0948
78	30	30	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.9	19.8	0.0955
78	30	30	650000	3750	DFT-s-OFDM 256 QAM	1@76	21.86	19.76	0.0946
78	30	30	650000	3750	CP-OFDM QPSK	39@19	24.89	22.79	0.1901
78	30	30	650000	3750	CP-OFDM QPSK	1@1	25.04	22.94	0.1968
78	30	30	650000	3750	CP-OFDM QPSK	1@76	24.86	22.76	0.1888
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	36@18	26.55	24.45	0.2786
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	1@1	26.48	24.38	0.2742
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	1@76	26.48	24.38	0.2742
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	36@18	26.55	24.45	0.2786
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	26.56	24.46	0.2793
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@76	26.54	24.44	0.2780
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	36@18	25.56	23.46	0.2218
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	25.42	23.32	0.2148
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@76	25.39	23.29	0.2133
78	30	30	652332	3784.98	DFT-s-OFDM 64 QAM	36@18	24.07	21.97	0.1574
78	30	30	652332	3784.98	DFT-s-OFDM 64 QAM	1@1	23.96	21.86	0.1535
78	30	30	652332	3784.98	DFT-s-OFDM 64 QAM	1@76	23.84	21.74	0.1493
78	30	30	652332	3784.98	DFT-s-OFDM 256 QAM	36@18	21.99	19.89	0.0975
78	30	30	652332	3784.98	DFT-s-OFDM 256 QAM	1@1	21.87	19.77	0.0948

78	30	30	652332	3784.98	DFT-s-OFDM 256 QAM	1@76	21.87	19.77	0.0948
78	30	30	652332	3784.98	CP-OFDM QPSK	39@19	25.02	22.92	0.1959
78	30	30	652332	3784.98	CP-OFDM QPSK	1@1	25.08	22.98	0.1986
78	30	30	652332	3784.98	CP-OFDM QPSK	1@76	24.92	22.82	0.1914
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	50@25	26.5	24.4	0.2754
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	26.61	24.51	0.2825
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@104	26.43	24.33	0.2710
78	30	40	648000	3720	DFT-s-OFDM QPSK	50@25	26.48	24.38	0.2742
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	26.66	24.56	0.2858
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@104	26.38	24.28	0.2679
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	50@25	25.43	23.33	0.2153
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	25.54	23.44	0.2208
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@104	25.41	23.31	0.2143
78	30	40	648000	3720	DFT-s-OFDM 64 QAM	50@25	24.03	21.93	0.1560
78	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@1	24.02	21.92	0.1556
78	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@104	23.63	21.53	0.1422
78	30	40	648000	3720	DFT-s-OFDM 256 QAM	50@25	21.93	19.83	0.0962
78	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@1	21.97	19.87	0.0971
78	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@104	21.65	19.55	0.0902
78	30	40	648000	3720	CP-OFDM QPSK	53@26	24.96	22.86	0.1932
78	30	40	648000	3720	CP-OFDM QPSK	1@1	25.04	22.94	0.1968
78	30	40	648000	3720	CP-OFDM	1@104	24.96	22.86	0.1932

QPSK									
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	50@25	26.41	24.31	0.2698
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.58	24.48	0.2805
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@104	26.55	24.45	0.2786
78	30	40	650000	3750	DFT-s-OFDM QPSK	50@25	26.45	24.35	0.2723
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	26.6	24.5	0.2818
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@104	26.54	24.44	0.2780
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	50@25	25.43	23.33	0.2153
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.41	23.31	0.2143
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@104	25.52	23.42	0.2198
78	30	40	650000	3750	DFT-s-OFDM 64 QAM	50@25	24	21.9	0.1549
78	30	40	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.99	21.89	0.1545
78	30	40	650000	3750	DFT-s-OFDM 64 QAM	1@104	23.97	21.87	0.1538
78	30	40	650000	3750	DFT-s-OFDM 256 QAM	50@25	21.92	19.82	0.0959
78	30	40	650000	3750	DFT-s-OFDM 256 QAM	1@1	22.04	19.94	0.0986
78	30	40	650000	3750	DFT-s-OFDM 256 QAM	1@104	21.87	19.77	0.0948
78	30	40	650000	3750	CP-OFDM QPSK	53@26	24.96	22.86	0.1932
78	30	40	650000	3750	CP-OFDM QPSK	1@1	25.13	23.03	0.2009
78	30	40	650000	3750	CP-OFDM QPSK	1@104	25.05	22.95	0.1972
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	50@25	26.62	24.52	0.2831
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@1	26.61	24.51	0.2825
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@104	25.54	23.44	0.2208

78	30	40	652000	3780	DFT-s-OFDM QPSK	50@25	26.58	24.48	0.2805
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	26.57	24.47	0.2799
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@104	26.58	24.48	0.2805
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	50@25	25.58	23.48	0.2228
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	25.49	23.39	0.2183
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@104	25.5	23.4	0.2188
78	30	40	652000	3780	DFT-s-OFDM 64 QAM	50@25	24.11	22.01	0.1589
78	30	40	652000	3780	DFT-s-OFDM 64 QAM	1@1	23.95	21.85	0.1531
78	30	40	652000	3780	DFT-s-OFDM 64 QAM	1@104	23.97	21.87	0.1538
78	30	40	652000	3780	DFT-s-OFDM 256 QAM	50@25	22.01	19.91	0.0979
78	30	40	652000	3780	DFT-s-OFDM 256 QAM	1@1	21.94	19.84	0.0964
78	30	40	652000	3780	DFT-s-OFDM 256 QAM	1@104	21.93	19.83	0.0962
78	30	40	652000	3780	CP-OFDM QPSK	53@26	25.08	22.98	0.1986
78	30	40	652000	3780	CP-OFDM QPSK	1@1	25	22.9	0.1950
78	30	40	652000	3780	CP-OFDM QPSK	1@104	25.08	22.98	0.1986
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	64@32	26.33	24.23	0.2649
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	26.33	24.23	0.2649
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@131	26.1	24	0.2512
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	64@32	26.24	24.14	0.2594
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	26.39	24.29	0.2685
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@131	26.14	24.04	0.2535
78	30	50	648334	3725.01	DFT-s-OFDM	64@32	25.27	23.17	0.2075

16 QAM									
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.26	23.16	0.2070
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@131	24.95	22.85	0.1928
78	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	64@32	23.79	21.69	0.1476
78	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	23.76	21.66	0.1466
78	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@131	23.49	21.39	0.1377
78	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	64@32	21.74	19.64	0.0920
78	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	21.68	19.58	0.0908
78	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@131	21.5	19.4	0.0871
78	30	50	648334	3725.01	CP-OFDM QPSK	67@33	24.88	22.78	0.1897
78	30	50	648334	3725.01	CP-OFDM QPSK	1@1	24.81	22.71	0.1866
78	30	50	648334	3725.01	CP-OFDM QPSK	1@131	24.63	22.53	0.1791
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	64@32	26.29	24.19	0.2624
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.34	24.24	0.2655
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@131	26.24	24.14	0.2594
78	30	50	650000	3750	DFT-s-OFDM QPSK	64@32	26.29	24.19	0.2624
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	26.37	24.27	0.2673
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@131	26.19	24.09	0.2564
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	64@32	25.31	23.21	0.2094
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.27	23.17	0.2075
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@131	25.13	23.03	0.2009
78	30	50	650000	3750	DFT-s-OFDM 64 QAM	64@32	23.78	21.68	0.1472

78	30	50	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.58	21.48	0.1406
78	30	50	650000	3750	DFT-s-OFDM 64 QAM	1@131	23.53	21.43	0.1390
78	30	50	650000	3750	DFT-s-OFDM 256 QAM	64@32	21.74	19.64	0.0920
78	30	50	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.73	19.63	0.0918
78	30	50	650000	3750	DFT-s-OFDM 256 QAM	1@131	21.62	19.52	0.0895
78	30	50	650000	3750	CP-OFDM QPSK	67@33	24.76	22.66	0.1845
78	30	50	650000	3750	CP-OFDM QPSK	1@1	24.93	22.83	0.1919
78	30	50	650000	3750	CP-OFDM QPSK	1@131	24.7	22.6	0.1820
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	64@32	26.31	24.21	0.2636
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@1	26.26	24.16	0.2606
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@131	26.1	24	0.2512
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	64@32	26.25	24.15	0.2600
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	26.25	24.15	0.2600
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@131	26.08	23.98	0.2500
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	64@32	25.26	23.16	0.2070
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	25.05	22.95	0.1972
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@131	24.91	22.81	0.1910
78	30	50	651666	3774.99	DFT-s-OFDM 64 QAM	64@32	23.79	21.69	0.1476
78	30	50	651666	3774.99	DFT-s-OFDM 64 QAM	1@1	23.65	21.55	0.1429
78	30	50	651666	3774.99	DFT-s-OFDM 64 QAM	1@131	23.52	21.42	0.1387
78	30	50	651666	3774.99	DFT-s-OFDM 256 QAM	64@32	21.75	19.65	0.0923
78	30	50	651666	3774.99	DFT-s-OFDM	1@1	21.58	19.48	0.0887

256 QAM									
78	30	50	651666	3774.99	DFT-s-OFDM 256 QAM	1@131	21.5	19.4	0.0871
78	30	50	651666	3774.99	CP-OFDM QPSK	67@33	24.77	22.67	0.1849
78	30	50	651666	3774.99	CP-OFDM QPSK	1@1	24.64	22.54	0.1795
78	30	50	651666	3774.99	CP-OFDM QPSK	1@131	24.71	22.61	0.1824
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	81@40	26.4	24.3	0.2692
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	26.24	24.14	0.2594
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@160	26.11	24.01	0.2518
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	81@40	26.35	24.25	0.2661
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	26.25	24.15	0.2600
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@160	26.17	24.07	0.2553
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	81@40	25.32	23.22	0.2099
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	25.16	23.06	0.2023
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@160	25.09	22.99	0.1991
78	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	81@40	23.71	21.61	0.1449
78	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@1	23.67	21.57	0.1435
78	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@160	23.56	21.46	0.1400
78	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	81@40	21.85	19.75	0.0944
78	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@1	21.65	19.55	0.0902
78	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@160	21.57	19.47	0.0885
78	30	60	648668	3730.02	CP-OFDM QPSK	81@40	24.75	22.65	0.1841
78	30	60	648668	3730.02	CP-OFDM QPSK	1@1	24.68	22.58	0.1811

78	30	60	648668	3730.02	CP-OFDM QPSK	1@160	24.7	22.6	0.1820
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	81@40	26.35	24.25	0.2661
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.34	24.24	0.2655
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	1@160	26.27	24.17	0.2612
78	30	60	650000	3750	DFT-s-OFDM QPSK	81@40	26.3	24.2	0.2630
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	26.35	24.25	0.2661
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@160	26.27	24.17	0.2612
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	81@40	25.29	23.19	0.2084
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.25	23.15	0.2065
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@160	25.14	23.04	0.2014
78	30	60	650000	3750	DFT-s-OFDM 64 QAM	81@40	23.8	21.7	0.1479
78	30	60	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.76	21.66	0.1466
78	30	60	650000	3750	DFT-s-OFDM 64 QAM	1@160	23.6	21.5	0.1413
78	30	60	650000	3750	DFT-s-OFDM 256 QAM	81@40	21.8	19.7	0.0933
78	30	60	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.69	19.59	0.0910
78	30	60	650000	3750	DFT-s-OFDM 256 QAM	1@160	21.64	19.54	0.0899
78	30	60	650000	3750	CP-OFDM QPSK	81@40	24.78	22.68	0.1854
78	30	60	650000	3750	CP-OFDM QPSK	1@1	24.88	22.78	0.1897
78	30	60	650000	3750	CP-OFDM QPSK	1@160	24.78	22.68	0.1854
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	81@40	26.25	24.15	0.2600
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	1@1	26.19	24.09	0.2564
78	30	60	651332	3769.98	DFT-s-OFDM	1@160	26.15	24.05	0.2541

PI/2 BPSK									
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	81@40	26.27	24.17	0.2612
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	26.21	24.11	0.2576
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@160	26.15	24.05	0.2541
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	81@40	25.25	23.15	0.2065
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	25.12	23.02	0.2004
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@160	25.06	22.96	0.1977
78	30	60	651332	3769.98	DFT-s-OFDM 64 QAM	81@40	23.75	21.65	0.1462
78	30	60	651332	3769.98	DFT-s-OFDM 64 QAM	1@1	23.64	21.54	0.1426
78	30	60	651332	3769.98	DFT-s-OFDM 64 QAM	1@160	23.52	21.42	0.1387
78	30	60	651332	3769.98	DFT-s-OFDM 256 QAM	81@40	21.76	19.66	0.0925
78	30	60	651332	3769.98	DFT-s-OFDM 256 QAM	1@1	21.52	19.42	0.0875
78	30	60	651332	3769.98	DFT-s-OFDM 256 QAM	1@160	21.54	19.44	0.0879
78	30	60	651332	3769.98	CP-OFDM QPSK	81@40	24.76	22.66	0.1845
78	30	60	651332	3769.98	CP-OFDM QPSK	1@1	24.71	22.61	0.1824
78	30	60	651332	3769.98	CP-OFDM QPSK	1@160	24.59	22.49	0.1774
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	90@45	26.26	24.16	0.2606
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	26.21	24.11	0.2576
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@187	23.29	21.19	0.1315
78	30	70	649000	3735	DFT-s-OFDM QPSK	90@45	26.63	24.53	0.2838
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	26.24	24.14	0.2594
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@187	26.06	23.96	0.2489

78	30	70	649000	3735	DFT-s-OFDM 16 QAM	90@45	23.27	21.17	0.1309
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	25.16	23.06	0.2023
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@187	24.9	22.8	0.1905
78	30	70	649000	3735	DFT-s-OFDM 64 QAM	90@45	22.96	20.86	0.1219
78	30	70	649000	3735	DFT-s-OFDM 64 QAM	1@1	23.28	21.18	0.1312
78	30	70	649000	3735	DFT-s-OFDM 64 QAM	1@187	23.25	21.15	0.1303
78	30	70	649000	3735	DFT-s-OFDM 256 QAM	90@45	21.6	19.5	0.0891
78	30	70	649000	3735	DFT-s-OFDM 256 QAM	1@1	21.6	19.5	0.0891
78	30	70	649000	3735	DFT-s-OFDM 256 QAM	1@187	21.41	19.31	0.0853
78	30	70	649000	3735	CP-OFDM QPSK	95@47	24.76	22.66	0.1845
78	30	70	649000	3735	CP-OFDM QPSK	1@1	24.64	22.54	0.1795
78	30	70	649000	3735	CP-OFDM QPSK	1@187	24.66	22.56	0.1803
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	90@45	26.19	24.09	0.2564
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.25	24.15	0.2600
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	1@187	26.05	23.95	0.2483
78	30	70	650000	3750	DFT-s-OFDM QPSK	90@45	26.16	24.06	0.2547
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	26.29	24.19	0.2624
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@187	26.17	24.07	0.2553
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	90@45	25.11	23.01	0.2000
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.17	23.07	0.2028
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@187	25	22.9	0.1950
78	30	70	650000	3750	DFT-s-OFDM	90@45	23.6	21.5	0.1413

64 QAM									
78	30	70	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.62	21.52	0.1419
78	30	70	650000	3750	DFT-s-OFDM 64 QAM	1@187	23.66	21.56	0.1432
78	30	70	650000	3750	DFT-s-OFDM 256 QAM	90@45	21.52	19.42	0.0875
78	30	70	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.62	19.52	0.0895
78	30	70	650000	3750	DFT-s-OFDM 256 QAM	1@187	21.42	19.32	0.0855
78	30	70	650000	3750	CP-OFDM QPSK	95@47	23.28	21.18	0.1312
78	30	70	650000	3750	CP-OFDM QPSK	1@1	24.76	22.66	0.1845
78	30	70	650000	3750	CP-OFDM QPSK	1@187	24.65	22.55	0.1799
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	90@45	26.16	24.06	0.2547
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	1@1	26.13	24.03	0.2529
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	1@187	26.11	24.01	0.2518
78	30	70	651000	3765	DFT-s-OFDM QPSK	90@45	25.56	23.46	0.2218
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	26.1	24	0.2512
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@187	26.08	23.98	0.2500
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	90@45	25.1	23	0.1995
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	25.05	22.95	0.1972
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@187	24.94	22.84	0.1923
78	30	70	651000	3765	DFT-s-OFDM 64 QAM	90@45	23.68	21.58	0.1439
78	30	70	651000	3765	DFT-s-OFDM 64 QAM	1@1	22.28	20.18	0.1042
78	30	70	651000	3765	DFT-s-OFDM 64 QAM	1@187	23.38	21.28	0.1343
78	30	70	651000	3765	DFT-s-OFDM 256 QAM	90@45	21.61	19.51	0.0893

78	30	70	651000	3765	DFT-s-OFDM 256 QAM	1@1	21.62	19.52	0.0895
78	30	70	651000	3765	DFT-s-OFDM 256 QAM	1@187	21.44	19.34	0.0859
78	30	70	651000	3765	CP-OFDM QPSK	95@47	24.62	22.52	0.1786
78	30	70	651000	3765	CP-OFDM QPSK	1@1	24.64	22.54	0.1795
78	30	70	651000	3765	CP-OFDM QPSK	1@187	24.58	22.48	0.1770
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	108@54	26.26	24.16	0.2606
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	26.23	24.13	0.2588
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@215	26.22	24.12	0.2582
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	108@54	26.15	24.05	0.2541
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	26.25	24.15	0.2600
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@215	26.16	24.06	0.2547
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	108@54	25.22	23.12	0.2051
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.2	23.1	0.2042
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@215	25.03	22.93	0.1963
78	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	108@54	23.75	21.65	0.1462
78	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	1@1	23.61	21.51	0.1416
78	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	1@215	23.53	21.43	0.1390
78	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	108@54	21.71	19.61	0.0914
78	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	1@1	21.69	19.59	0.0910
78	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	1@215	21.54	19.44	0.0879
78	30	80	649334	3740.01	CP-OFDM QPSK	109@54	24.75	22.65	0.1841
78	30	80	649334	3740.01	CP-OFDM	1@1	24.91	22.81	0.1910

QPSK									
78	30	80	649334	3740.01	CP-OFDM QPSK	1@215	24.66	22.56	0.1803
78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	108@54	26.19	24.09	0.2564
78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.22	24.12	0.2582
78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	1@215	26.11	24.01	0.2518
78	30	80	650000	3750	DFT-s-OFDM QPSK	108@54	26.17	24.07	0.2553
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	26.27	24.17	0.2612
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@215	26.1	24	0.2512
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	108@54	25.18	23.08	0.2032
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.18	23.08	0.2032
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@215	25.01	22.91	0.1954
78	30	80	650000	3750	DFT-s-OFDM 64 QAM	108@54	23.67	21.57	0.1435
78	30	80	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.62	21.52	0.1419
78	30	80	650000	3750	DFT-s-OFDM 64 QAM	1@215	23.51	21.41	0.1384
78	30	80	650000	3750	DFT-s-OFDM 256 QAM	108@54	21.62	19.52	0.0895
78	30	80	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.53	19.43	0.0877
78	30	80	650000	3750	DFT-s-OFDM 256 QAM	1@215	21.37	19.27	0.0845
78	30	80	650000	3750	CP-OFDM QPSK	109@54	24.65	22.55	0.1799
78	30	80	650000	3750	CP-OFDM QPSK	1@1	24.92	22.82	0.1914
78	30	80	650000	3750	CP-OFDM QPSK	1@215	24.61	22.51	0.1782
78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	108@54	26.21	24.11	0.2576
78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	1@1	26.23	24.13	0.2588

78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	1@215	26.07	23.97	0.2495
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	108@54	26.18	24.08	0.2559
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	26.17	24.07	0.2553
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@215	26.14	24.04	0.2535
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	108@54	25.17	23.07	0.2028
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	25.15	23.05	0.2018
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@215	25.02	22.92	0.1959
78	30	80	650666	3759.99	DFT-s-OFDM 64 QAM	108@54	23.68	21.58	0.1439
78	30	80	650666	3759.99	DFT-s-OFDM 64 QAM	1@1	23.64	21.54	0.1426
78	30	80	650666	3759.99	DFT-s-OFDM 64 QAM	1@215	23.55	21.45	0.1396
78	30	80	650666	3759.99	DFT-s-OFDM 256 QAM	108@54	21.63	19.53	0.0897
78	30	80	650666	3759.99	DFT-s-OFDM 256 QAM	1@1	21.59	19.49	0.0889
78	30	80	650666	3759.99	DFT-s-OFDM 256 QAM	1@215	21.51	19.41	0.0873
78	30	80	650666	3759.99	CP-OFDM QPSK	109@54	24.65	22.55	0.1799
78	30	80	650666	3759.99	CP-OFDM QPSK	1@1	24.69	22.59	0.1816
78	30	80	650666	3759.99	CP-OFDM QPSK	1@215	24.46	22.36	0.1722
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	120@60	26.23	24.13	0.2588
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	26.27	24.17	0.2612
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@243	26.14	24.04	0.2535
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	26.22	24.12	0.2582
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	26.28	24.18	0.2618
78	30	90	649668	3745.02	DFT-s-OFDM	1@243	26.26	24.16	0.2606

QPSK									
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	25.21	23.11	0.2046
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	25.05	22.95	0.1972
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	25.01	22.91	0.1954
78	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	120@60	23.72	21.62	0.1452
78	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	1@1	23.63	21.53	0.1422
78	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	1@243	23.62	21.52	0.1419
78	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	120@60	21.69	19.59	0.0910
78	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	1@1	21.57	19.47	0.0885
78	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	1@243	21.42	19.32	0.0855
78	30	90	649668	3745.02	CP-OFDM QPSK	123@61	24.72	22.62	0.1828
78	30	90	649668	3745.02	CP-OFDM QPSK	1@1	24.61	22.51	0.1782
78	30	90	649668	3745.02	CP-OFDM QPSK	1@243	24.58	22.48	0.1770
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	120@60	26.23	24.13	0.2588
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.21	24.11	0.2576
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	1@243	26.12	24.02	0.2523
78	30	90	650000	3750	DFT-s-OFDM QPSK	120@60	26.16	24.06	0.2547
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	26.2	24.1	0.2570
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@243	26.11	24.01	0.2518
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	120@60	25.18	23.08	0.2032
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.27	23.17	0.2075
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@243	25.22	23.12	0.2051

78	30	90	650000	3750	DFT-s-OFDM 64 QAM	120@60	23.68	21.58	0.1439
78	30	90	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.59	21.49	0.1409
78	30	90	650000	3750	DFT-s-OFDM 64 QAM	1@243	23.34	21.24	0.1330
78	30	90	650000	3750	DFT-s-OFDM 256 QAM	120@60	21.64	19.54	0.0899
78	30	90	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.61	19.51	0.0893
78	30	90	650000	3750	DFT-s-OFDM 256 QAM	1@243	21.44	19.34	0.0859
78	30	90	650000	3750	CP-OFDM QPSK	123@61	24.67	22.57	0.1807
78	30	90	650000	3750	CP-OFDM QPSK	1@1	24.87	22.77	0.1892
78	30	90	650000	3750	CP-OFDM QPSK	1@243	24.59	22.49	0.1774
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	120@60	26.18	24.08	0.2559
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	1@1	26.22	24.12	0.2582
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	1@243	26.1	24	0.2512
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	120@60	26.15	24.05	0.2541
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	26.25	24.15	0.2600
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@243	26.14	24.04	0.2535
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	120@60	25.16	23.06	0.2023
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	25.19	23.09	0.2037
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@243	25.04	22.94	0.1968
78	30	90	650332	3754.98	DFT-s-OFDM 64 QAM	120@60	23.65	21.55	0.1429
78	30	90	650332	3754.98	DFT-s-OFDM 64 QAM	1@1	23.54	21.44	0.1393
78	30	90	650332	3754.98	DFT-s-OFDM 64 QAM	1@243	23.29	21.19	0.1315
78	30	90	650332	3754.98	DFT-s-OFDM	120@60	21.64	19.54	0.0899

256 QAM									
78	30	90	650332	3754.98	DFT-s-OFDM 256 QAM	1@1	21.62	19.52	0.0895
78	30	90	650332	3754.98	DFT-s-OFDM 256 QAM	1@243	21.41	19.31	0.0853
78	30	90	650332	3754.98	CP-OFDM QPSK	123@61	24.65	22.55	0.1799
78	30	90	650332	3754.98	CP-OFDM QPSK	1@1	24.64	22.54	0.1795
78	30	90	650332	3754.98	CP-OFDM QPSK	1@243	24.57	22.47	0.1766
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	26.24	24.14	0.2594
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.14	24.04	0.2535
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	26.16	24.06	0.2547
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	26.24	24.14	0.2594
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	26.06	23.96	0.2489
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	26.16	24.06	0.2547
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	25.18	23.08	0.2032
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.09	22.99	0.1991
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	25.01	22.91	0.1954
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.69	21.59	0.1442
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.55	21.45	0.1396
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	23.5	21.4	0.1380
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.69	19.59	0.0910
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.6	19.5	0.0891
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	21.47	19.37	0.0865
78	30	100	650000	3750	CP-OFDM QPSK	137@68	24.67	22.57	0.1807

78	30	100	650000	3750	CP-OFDM QPSK	1@1	24.83	22.73	0.1875
78	30	100	650000	3750	CP-OFDM QPSK	1@271	24.58	22.48	0.1770

FR1 N78 UL MIMO

(Ant 8+ Ant 7_Max Conducted Power)

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= -2.1dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	ANT8 Power(dBm)	ANT7 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	647000	3705	CP-OFDM QPSK	12@6	22.88	22.86	25.88	23.78	0.2388
78	30	10	647000	3705	CP-OFDM QPSK	1@1	22.84	22.64	25.75	23.65	0.2318
78	30	10	647000	3705	CP-OFDM QPSK	1@22	22.82	22.71	25.78	23.68	0.2331
78	30	10	647000	3705	CP-OFDM 16 QAM	12@6	22.34	22.36	25.36	23.26	0.2119
78	30	10	647000	3705	CP-OFDM 16 QAM	1@1	22.36	22.08	25.23	23.13	0.2057
78	30	10	647000	3705	CP-OFDM 16 QAM	1@22	22.32	22.21	25.28	23.18	0.2078
78	30	10	647000	3705	CP-OFDM 64 QAM	12@6	20.9	20.92	23.92	21.82	0.1521
78	30	10	647000	3705	CP-OFDM 64 QAM	1@1	20.96	20.86	23.92	21.82	0.1521
78	30	10	647000	3705	CP-OFDM 64 QAM	1@22	20.96	20.53	23.76	21.66	0.1466
78	30	10	647000	3705	CP-OFDM 256 QAM	12@6	17.91	17.7	20.82	18.72	0.0744
78	30	10	647000	3705	CP-OFDM 256 QAM	1@1	17.78	17.79	20.80	18.70	0.0741
78	30	10	647000	3705	CP-OFDM 256 QAM	1@22	17.78	17.89	20.85	18.75	0.0749
78	30	10	650000	3750	CP-OFDM QPSK	12@6	22.78	22.8	25.80	23.70	0.2344
78	30	10	650000	3750	CP-OFDM QPSK	1@1	22.69	22.77	25.74	23.64	0.2312
78	30	10	650000	3750	CP-OFDM QPSK	1@22	22.68	22.92	25.81	23.71	0.2351
78	30	10	650000	3750	CP-OFDM 16 QAM	12@6	22.26	22.29	25.29	23.19	0.2082
78	30	10	650000	3750	CP-OFDM 16 QAM	1@1	22.28	22.17	25.24	23.14	0.2059

78	30	10	650000	3750	CP-OFDM 16 QAM	1@22	22.29	22.29	25.30	23.20	0.2089
78	30	10	650000	3750	CP-OFDM 64 QAM	12@6	20.8	20.92	23.87	21.77	0.1503
78	30	10	650000	3750	CP-OFDM 64 QAM	1@1	20.79	20.54	23.68	21.58	0.1438
78	30	10	650000	3750	CP-OFDM 64 QAM	1@22	20.72	20.63	23.69	21.59	0.1441
78	30	10	650000	3750	CP-OFDM 256 QAM	12@6	17.78	17.74	20.77	18.67	0.0736
78	30	10	650000	3750	CP-OFDM 256 QAM	1@1	17.69	17.89	20.80	18.70	0.0742
78	30	10	650000	3750	CP-OFDM 256 QAM	1@22	17.6	17.98	20.80	18.70	0.0742
78	30	10	653000	3795	CP-OFDM QPSK	12@6	22.58	22.99	25.80	23.70	0.2344
78	30	10	653000	3795	CP-OFDM QPSK	1@1	22.47	22.92	25.71	23.61	0.2297
78	30	10	653000	3795	CP-OFDM QPSK	1@22	22.52	23.04	25.80	23.70	0.2343
78	30	10	653000	3795	CP-OFDM 16 QAM	12@6	22.02	22.44	25.25	23.15	0.2063
78	30	10	653000	3795	CP-OFDM 16 QAM	1@1	22.09	22.26	25.19	23.09	0.2035
78	30	10	653000	3795	CP-OFDM 16 QAM	1@22	22.12	22.37	25.26	23.16	0.2069
78	30	10	653000	3795	CP-OFDM 64 QAM	12@6	20.6	21.05	23.84	21.74	0.1493
78	30	10	653000	3795	CP-OFDM 64 QAM	1@1	20.6	20.68	23.65	21.55	0.1429
78	30	10	653000	3795	CP-OFDM 64 QAM	1@22	20.52	20.75	23.65	21.55	0.1428
78	30	10	653000	3795	CP-OFDM 256 QAM	12@6	17.57	17.91	20.75	18.65	0.0733
78	30	10	653000	3795	CP-OFDM 256 QAM	1@1	17.48	17.96	20.74	18.64	0.0731
78	30	10	653000	3795	CP-OFDM 256 QAM	1@22	17.44	18.03	20.76	18.66	0.0734
78	30	15	647168	3707.52	CP-OFDM QPSK	19@9	23.15	23	26.09	23.99	0.2504
78	30	15	647168	3707.52	CP-OFDM QPSK	1@1	23.02	22.95	26.00	23.90	0.2452
78	30	15	647168	3707.52	CP-OFDM	1@36	22.9	23.16	26.04	23.94	0.2479

QPSK										
78	30	15	647168 3707.52	CP-OFDM 16 QAM	19@9	22.6	22.55	25.59	23.49	0.2231
78	30	15	647168 3707.52	CP-OFDM 16 QAM	1@1	22.71	22.32	25.53	23.43	0.2203
78	30	15	647168 3707.52	CP-OFDM 16 QAM	1@36	22.65	22.56	25.62	23.52	0.2247
78	30	15	647168 3707.52	CP-OFDM 64 QAM	19@9	21.07	21.09	24.09	21.99	0.1581
78	30	15	647168 3707.52	CP-OFDM 64 QAM	1@1	21.13	20.76	23.96	21.86	0.1534
78	30	15	647168 3707.52	CP-OFDM 64 QAM	1@36	21.1	20.94	24.03	21.93	0.1560
78	30	15	647168 3707.52	CP-OFDM 256 QAM	19@9	18.05	17.93	21.00	18.90	0.0776
78	30	15	647168 3707.52	CP-OFDM 256 QAM	1@1	17.98	18.02	21.01	18.91	0.0778
78	30	15	647168 3707.52	CP-OFDM 256 QAM	1@36	18.01	18.18	21.11	19.01	0.0795
78	30	15	650000 3750	CP-OFDM QPSK	19@9	22.97	23.07	26.03	23.93	0.2472
78	30	15	650000 3750	CP-OFDM QPSK	1@1	22.85	23	25.94	23.84	0.2419
78	30	15	650000 3750	CP-OFDM QPSK	1@36	22.95	23.23	26.10	24.00	0.2513
78	30	15	650000 3750	CP-OFDM 16 QAM	19@9	22.4	22.61	25.52	23.42	0.2196
78	30	15	650000 3750	CP-OFDM 16 QAM	1@1	22.49	22.41	25.46	23.36	0.2168
78	30	15	650000 3750	CP-OFDM 16 QAM	1@36	22.52	22.64	25.59	23.49	0.2234
78	30	15	650000 3750	CP-OFDM 64 QAM	19@9	20.86	21.14	24.01	21.91	0.1553
78	30	15	650000 3750	CP-OFDM 64 QAM	1@1	20.98	20.87	23.94	21.84	0.1526
78	30	15	650000 3750	CP-OFDM 64 QAM	1@36	20.87	20.9	23.90	21.80	0.1512
78	30	15	650000 3750	CP-OFDM 256 QAM	19@9	17.87	17.99	20.94	18.84	0.0766
78	30	15	650000 3750	CP-OFDM 256 QAM	1@1	17.85	18.14	21.01	18.91	0.0778
78	30	15	650000 3750	CP-OFDM	1@36	17.8	18.24	21.04	18.94	0.0783

256 QAM											
78	30	15	652832 3792.48	CP-OFDM QPSK	19@9	22.87	23.11	26.00	23.90	0.2456	
78	30	15	652832 3792.48	CP-OFDM QPSK	1@1	22.84	23.01	25.94	23.84	0.2419	
78	30	15	652832 3792.48	CP-OFDM QPSK	1@36	22.72	23.22	25.99	23.89	0.2448	
78	30	15	652832 3792.48	CP-OFDM 16 QAM	19@9	22.29	22.66	25.49	23.39	0.2182	
78	30	15	652832 3792.48	CP-OFDM 16 QAM	1@1	22.5	22.52	25.52	23.42	0.2198	
78	30	15	652832 3792.48	CP-OFDM 16 QAM	1@36	22.5	22.68	25.60	23.50	0.2239	
78	30	15	652832 3792.48	CP-OFDM 64 QAM	19@9	20.8	21.19	24.01	21.91	0.1552	
78	30	15	652832 3792.48	CP-OFDM 64 QAM	1@1	20.86	20.79	23.84	21.74	0.1491	
78	30	15	652832 3792.48	CP-OFDM 64 QAM	1@36	20.84	20.98	23.92	21.82	0.1521	
78	30	15	652832 3792.48	CP-OFDM 256 QAM	19@9	17.79	18.07	20.94	18.84	0.0766	
78	30	15	652832 3792.48	CP-OFDM 256 QAM	1@1	17.74	18.17	20.97	18.87	0.0771	
78	30	15	652832 3792.48	CP-OFDM 256 QAM	1@36	17.7	18.35	21.05	18.95	0.0785	
78	30	20	647334 3710.01	CP-OFDM QPSK	25@12	23.05	22.98	26.03	23.93	0.2469	
78	30	20	647334 3710.01	CP-OFDM QPSK	1@1	23.01	22.88	25.96	23.86	0.2430	
78	30	20	647334 3710.01	CP-OFDM QPSK	1@49	23.01	23.01	26.02	23.92	0.2466	
78	30	20	647334 3710.01	CP-OFDM 16 QAM	25@12	22.59	22.51	25.56	23.46	0.2218	
78	30	20	647334 3710.01	CP-OFDM 16 QAM	1@1	22.73	22.38	25.57	23.47	0.2223	
78	30	20	647334 3710.01	CP-OFDM 16 QAM	1@49	22.74	22.5	25.63	23.53	0.2255	
78	30	20	647334 3710.01	CP-OFDM 64 QAM	25@12	21.03	21.01	24.03	21.93	0.1560	
78	30	20	647334 3710.01	CP-OFDM 64 QAM	1@1	21.17	20.86	24.03	21.93	0.1559	
78	30	20	647334 3710.01	CP-OFDM 64 QAM	1@49	21.15	20.99	24.08	21.98	0.1578	

78	30	20	647334	3710.01	CP-OFDM 256 QAM	25@12	18.02	17.94	20.99	18.89	0.0775
78	30	20	647334	3710.01	CP-OFDM 256 QAM	1@1	18.01	18.01	21.02	18.92	0.0780
78	30	20	647334	3710.01	CP-OFDM 256 QAM	1@49	17.96	18.09	21.04	18.94	0.0783
78	30	20	650000	3750	CP-OFDM QPSK	25@12	22.88	23.1	26.00	23.90	0.2456
78	30	20	650000	3750	CP-OFDM QPSK	1@1	22.88	22.96	25.93	23.83	0.2416
78	30	20	650000	3750	CP-OFDM QPSK	1@49	22.83	22.99	25.92	23.82	0.2410
78	30	20	650000	3750	CP-OFDM 16 QAM	25@12	22.43	22.57	25.51	23.41	0.2193
78	30	20	650000	3750	CP-OFDM 16 QAM	1@1	22.55	22.5	25.54	23.44	0.2206
78	30	20	650000	3750	CP-OFDM 16 QAM	1@49	22.54	22.41	25.49	23.39	0.2181
78	30	20	650000	3750	CP-OFDM 64 QAM	25@12	20.87	21.07	23.98	21.88	0.1542
78	30	20	650000	3750	CP-OFDM 64 QAM	1@1	21.02	20.69	23.87	21.77	0.1503
78	30	20	650000	3750	CP-OFDM 64 QAM	1@49	20.98	20.69	23.85	21.75	0.1495
78	30	20	650000	3750	CP-OFDM 256 QAM	25@12	17.86	17.99	20.94	18.84	0.0765
78	30	20	650000	3750	CP-OFDM 256 QAM	1@1	17.84	18.16	21.01	18.91	0.0779
78	30	20	650000	3750	CP-OFDM 256 QAM	1@49	17.81	18.15	20.99	18.89	0.0775
78	30	20	652666	3789.99	CP-OFDM QPSK	25@12	22.85	23.11	25.99	23.89	0.2450
78	30	20	652666	3789.99	CP-OFDM QPSK	1@1	22.74	23.08	25.92	23.82	0.2412
78	30	20	652666	3789.99	CP-OFDM QPSK	1@49	22.76	23.18	25.99	23.89	0.2446
78	30	20	652666	3789.99	CP-OFDM 16 QAM	25@12	22.38	22.6	25.50	23.40	0.2189
78	30	20	652666	3789.99	CP-OFDM 16 QAM	1@1	22.34	22.43	25.40	23.30	0.2136
78	30	20	652666	3789.99	CP-OFDM 16 QAM	1@49	22.36	22.55	25.47	23.37	0.2171
78	30	20	652666	3789.99	CP-OFDM	25@12	20.71	21.12	23.93	21.83	0.1524

64 QAM										
78	30	20	652666 3789.99	CP-OFDM 64 QAM	1@1	20.79	20.8	23.81	21.71	0.1481
78	30	20	652666 3789.99	CP-OFDM 64 QAM	1@49	20.85	20.97	23.92	21.82	0.1521
78	30	20	652666 3789.99	CP-OFDM 256 QAM	25@12	17.81	18.05	20.94	18.84	0.0766
78	30	20	652666 3789.99	CP-OFDM 256 QAM	1@1	17.74	18.17	20.97	18.87	0.0771
78	30	20	652666 3789.99	CP-OFDM 256 QAM	1@49	17.79	18.3	21.06	18.96	0.0788
78	30	30	647668 3715.02	CP-OFDM QPSK	39@19	23.06	23.02	26.05	23.95	0.2483
78	30	30	647668 3715.02	CP-OFDM QPSK	1@1	23.04	22.99	26.03	23.93	0.2469
78	30	30	647668 3715.02	CP-OFDM QPSK	1@76	22.83	23.23	26.04	23.94	0.2480
78	30	30	647668 3715.02	CP-OFDM 16 QAM	39@19	22.54	22.51	25.54	23.44	0.2206
78	30	30	647668 3715.02	CP-OFDM 16 QAM	1@1	22.61	22.34	25.49	23.39	0.2181
78	30	30	647668 3715.02	CP-OFDM 16 QAM	1@76	22.71	22.52	25.63	23.53	0.2252
78	30	30	647668 3715.02	CP-OFDM 64 QAM	39@19	21.02	21.01	24.03	21.93	0.1558
78	30	30	647668 3715.02	CP-OFDM 64 QAM	1@1	21.08	20.8	23.95	21.85	0.1532
78	30	30	647668 3715.02	CP-OFDM 64 QAM	1@76	20.92	20.95	23.95	21.85	0.1529
78	30	30	647668 3715.02	CP-OFDM 256 QAM	39@19	18.01	17.99	21.01	18.91	0.0778
78	30	30	647668 3715.02	CP-OFDM 256 QAM	1@1	18.01	18.13	21.08	18.98	0.0791
78	30	30	647668 3715.02	CP-OFDM 256 QAM	1@76	17.85	18.18	21.03	18.93	0.0781
78	30	30	650000 3750	CP-OFDM QPSK	39@19	22.84	23.02	25.94	23.84	0.2422
78	30	30	650000 3750	CP-OFDM QPSK	1@1	22.95	23.1	26.04	23.94	0.2475
78	30	30	650000 3750	CP-OFDM QPSK	1@76	22.97	23.08	26.04	23.94	0.2475
78	30	30	650000 3750	CP-OFDM	39@19	22.42	22.57	25.51	23.41	0.2191

16 QAM											
78	30	30	650000	3750	CP-OFDM 16 QAM	1@1	22.59	22.47	25.54	23.44	0.2208
78	30	30	650000	3750	CP-OFDM 16 QAM	1@76	22.34	22.6	25.48	23.38	0.2179
78	30	30	650000	3750	CP-OFDM 64 QAM	39@19	20.88	20.98	23.94	21.84	0.1528
78	30	30	650000	3750	CP-OFDM 64 QAM	1@1	21.01	20.92	23.98	21.88	0.1540
78	30	30	650000	3750	CP-OFDM 64 QAM	1@76	20.86	20.95	23.92	21.82	0.1519
78	30	30	650000	3750	CP-OFDM 256 QAM	39@19	17.86	18.05	20.97	18.87	0.0770
78	30	30	650000	3750	CP-OFDM 256 QAM	1@1	17.94	18.23	21.10	19.00	0.0794
78	30	30	650000	3750	CP-OFDM 256 QAM	1@76	17.68	18.14	20.93	18.83	0.0763
78	30	30	652332	3784.98	CP-OFDM QPSK	39@19	22.73	23.02	25.89	23.79	0.2392
78	30	30	652332	3784.98	CP-OFDM QPSK	1@1	22.84	22.98	25.92	23.82	0.2410
78	30	30	652332	3784.98	CP-OFDM QPSK	1@76	22.77	23.02	25.91	23.81	0.2403
78	30	30	652332	3784.98	CP-OFDM 16 QAM	39@19	22.29	22.58	25.45	23.35	0.2162
78	30	30	652332	3784.98	CP-OFDM 16 QAM	1@1	22.25	22.39	25.33	23.23	0.2104
78	30	30	652332	3784.98	CP-OFDM 16 QAM	1@76	22.23	22.72	25.49	23.39	0.2184
78	30	30	652332	3784.98	CP-OFDM 64 QAM	39@19	20.72	21.03	23.89	21.79	0.1509
78	30	30	652332	3784.98	CP-OFDM 64 QAM	1@1	20.86	20.75	23.82	21.72	0.1484
78	30	30	652332	3784.98	CP-OFDM 64 QAM	1@76	20.73	20.98	23.87	21.77	0.1502
78	30	30	652332	3784.98	CP-OFDM 256 QAM	39@19	17.68	18.05	20.88	18.78	0.0755
78	30	30	652332	3784.98	CP-OFDM 256 QAM	1@1	17.77	18.11	20.95	18.85	0.0768
78	30	30	652332	3784.98	CP-OFDM 256 QAM	1@76	17.56	18.12	20.86	18.76	0.0752
78	30	40	648000	3720	CP-OFDM QPSK	53@26	23.03	23.03	26.04	23.94	0.2478

78	30	40	648000	3720	CP-OFDM QPSK	1@1	23.1	23.04	26.08	23.98	0.2501
78	30	40	648000	3720	CP-OFDM QPSK	1@104	23	22.95	25.99	23.89	0.2446
78	30	40	648000	3720	CP-OFDM 16 QAM	53@26	22.4	22.47	25.45	23.35	0.2160
78	30	40	648000	3720	CP-OFDM 16 QAM	1@1	22.65	22.5	25.59	23.49	0.2231
78	30	40	648000	3720	CP-OFDM 16 QAM	1@104	22.55	22.44	25.51	23.41	0.2191
78	30	40	648000	3720	CP-OFDM 64 QAM	53@26	20.9	21.01	23.97	21.87	0.1537
78	30	40	648000	3720	CP-OFDM 64 QAM	1@1	21.26	20.77	24.03	21.93	0.1560
78	30	40	648000	3720	CP-OFDM 64 QAM	1@104	21.15	20.76	23.97	21.87	0.1538
78	30	40	648000	3720	CP-OFDM 256 QAM	53@26	17.91	17.89	20.91	18.81	0.0760
78	30	40	648000	3720	CP-OFDM 256 QAM	1@1	18.09	18.18	21.15	19.05	0.0803
78	30	40	648000	3720	CP-OFDM 256 QAM	1@104	17.96	18.11	21.05	18.95	0.0785
78	30	40	650000	3750	CP-OFDM QPSK	53@26	22.89	23.04	25.98	23.88	0.2441
78	30	40	650000	3750	CP-OFDM QPSK	1@1	23.06	23.12	26.10	24.00	0.2512
78	30	40	650000	3750	CP-OFDM QPSK	1@104	22.88	23.06	25.98	23.88	0.2444
78	30	40	650000	3750	CP-OFDM 16 QAM	53@26	22.4	22.5	25.46	23.36	0.2168
78	30	40	650000	3750	CP-OFDM 16 QAM	1@1	22.63	22.64	25.65	23.55	0.2262
78	30	40	650000	3750	CP-OFDM 16 QAM	1@104	22.41	22.49	25.46	23.36	0.2168
78	30	40	650000	3750	CP-OFDM 64 QAM	53@26	20.86	20.95	23.92	21.82	0.1519
78	30	40	650000	3750	CP-OFDM 64 QAM	1@1	21.25	20.87	24.07	21.97	0.1576
78	30	40	650000	3750	CP-OFDM 64 QAM	1@104	21.03	20.78	23.92	21.82	0.1520
78	30	40	650000	3750	CP-OFDM 256 QAM	53@26	17.84	17.98	20.92	18.82	0.0762
78	30	40	650000	3750	CP-OFDM	1@1	18.07	18.32	21.21	19.11	0.0814

256 QAM											
78	30	40	650000	3750	CP-OFDM 256 QAM	1@104	17.79	18.19	21.00	18.90	0.0777
78	30	40	652000	3780	CP-OFDM QPSK	53@26	22.77	23.05	25.92	23.82	0.2411
78	30	40	652000	3780	CP-OFDM QPSK	1@1	22.92	23.08	26.01	23.91	0.2461
78	30	40	652000	3780	CP-OFDM QPSK	1@104	22.76	23.24	26.02	23.92	0.2464
78	30	40	652000	3780	CP-OFDM 16 QAM	53@26	22.28	22.52	25.41	23.31	0.2144
78	30	40	652000	3780	CP-OFDM 16 QAM	1@1	22.49	22.61	25.56	23.46	0.2219
78	30	40	652000	3780	CP-OFDM 16 QAM	1@104	22.28	22.67	25.49	23.39	0.2183
78	30	40	652000	3780	CP-OFDM 64 QAM	53@26	20.76	21.07	23.93	21.83	0.1523
78	30	40	652000	3780	CP-OFDM 64 QAM	1@1	21.12	20.83	23.99	21.89	0.1544
78	30	40	652000	3780	CP-OFDM 64 QAM	1@104	20.9	21.03	23.98	21.88	0.1540
78	30	40	652000	3780	CP-OFDM 256 QAM	53@26	17.76	18.02	20.90	18.80	0.0759
78	30	40	652000	3780	CP-OFDM 256 QAM	1@1	17.93	18.26	21.11	19.01	0.0796
78	30	40	652000	3780	CP-OFDM 256 QAM	1@104	17.74	18.41	21.10	19.00	0.0794
78	30	50	648334	3725.01	CP-OFDM QPSK	67@33	22.89	22.87	25.89	23.79	0.2393
78	30	50	648334	3725.01	CP-OFDM QPSK	1@1	23	22.71	25.87	23.77	0.2381
78	30	50	648334	3725.01	CP-OFDM QPSK	1@131	22.66	22.8	25.74	23.64	0.2313
78	30	50	648334	3725.01	CP-OFDM 16 QAM	67@33	22.43	22.44	25.45	23.35	0.2160
78	30	50	648334	3725.01	CP-OFDM 16 QAM	1@1	22.49	22.22	25.37	23.27	0.2122
78	30	50	648334	3725.01	CP-OFDM 16 QAM	1@131	22.16	22.28	25.23	23.13	0.2056
78	30	50	648334	3725.01	CP-OFDM 64 QAM	67@33	20.87	20.9	23.90	21.80	0.1512
78	30	50	648334	3725.01	CP-OFDM	1@1	20.86	20.44	23.67	21.57	0.1434

64 QAM										
78	30	50	648334 3725.01	CP-OFDM 64 QAM	1@131	20.78	20.51	23.66	21.56	0.1431
78	30	50	648334 3725.01	CP-OFDM 256 QAM	67@33	17.85	17.84	20.86	18.76	0.0751
78	30	50	648334 3725.01	CP-OFDM 256 QAM	1@1	17.91	17.92	20.93	18.83	0.0763
78	30	50	648334 3725.01	CP-OFDM 256 QAM	1@131	17.57	17.93	20.76	18.66	0.0735
78	30	50	650000 3750	CP-OFDM QPSK	67@33	22.76	22.89	25.84	23.74	0.2364
78	30	50	650000 3750	CP-OFDM QPSK	1@1	22.81	22.86	25.85	23.75	0.2369
78	30	50	650000 3750	CP-OFDM QPSK	1@131	22.48	22.79	25.65	23.55	0.2264
78	30	50	650000 3750	CP-OFDM 16 QAM	67@33	22.29	22.43	25.37	23.27	0.2124
78	30	50	650000 3750	CP-OFDM 16 QAM	1@1	22.43	22.32	25.39	23.29	0.2131
78	30	50	650000 3750	CP-OFDM 16 QAM	1@131	22.1	22.38	25.25	23.15	0.2067
78	30	50	650000 3750	CP-OFDM 64 QAM	67@33	20.72	20.9	23.82	21.72	0.1486
78	30	50	650000 3750	CP-OFDM 64 QAM	1@1	20.85	20.71	23.79	21.69	0.1476
78	30	50	650000 3750	CP-OFDM 64 QAM	1@131	20.56	20.74	23.66	21.56	0.1433
78	30	50	650000 3750	CP-OFDM 256 QAM	67@33	17.71	17.89	20.81	18.71	0.0743
78	30	50	650000 3750	CP-OFDM 256 QAM	1@1	17.8	18.01	20.92	18.82	0.0761
78	30	50	650000 3750	CP-OFDM 256 QAM	1@131	17.45	18.01	20.75	18.65	0.0733
78	30	50	651666 3774.99	CP-OFDM QPSK	67@33	22.67	22.9	25.80	23.70	0.2343
78	30	50	651666 3774.99	CP-OFDM QPSK	1@1	22.69	22.81	25.76	23.66	0.2323
78	30	50	651666 3774.99	CP-OFDM QPSK	1@131	22.54	22.92	25.74	23.64	0.2314
78	30	50	651666 3774.99	CP-OFDM 16 QAM	67@33	22.24	22.4	25.33	23.23	0.2104
78	30	50	651666 3774.99	CP-OFDM 16 QAM	1@1	22.33	22.22	25.29	23.19	0.2082

78	30	50	651666 3774.99	CP-OFDM 16 QAM	1@131	22	22.45	25.24	23.14	0.2061
78	30	50	651666 3774.99	CP-OFDM 64 QAM	67@33	20.64	20.91	23.79	21.69	0.1475
78	30	50	651666 3774.99	CP-OFDM 64 QAM	1@1	20.74	20.63	23.70	21.60	0.1444
78	30	50	651666 3774.99	CP-OFDM 64 QAM	1@131	20.55	20.84	23.71	21.61	0.1448
78	30	50	651666 3774.99	CP-OFDM 256 QAM	67@33	17.63	17.87	20.76	18.66	0.0735
78	30	50	651666 3774.99	CP-OFDM 256 QAM	1@1	17.66	17.92	20.80	18.70	0.0742
78	30	50	651666 3774.99	CP-OFDM 256 QAM	1@131	17.43	18.03	20.75	18.65	0.0733
78	30	60	648668 3730.02	CP-OFDM QPSK	81@40	22.91	22.86	25.90	23.80	0.2396
78	30	60	648668 3730.02	CP-OFDM QPSK	1@1	22.84	22.71	25.79	23.69	0.2337
78	30	60	648668 3730.02	CP-OFDM QPSK	1@160	22.59	22.88	25.75	23.65	0.2316
78	30	60	648668 3730.02	CP-OFDM 16 QAM	81@40	22.35	22.39	25.38	23.28	0.2128
78	30	60	648668 3730.02	CP-OFDM 16 QAM	1@1	22.4	22.11	25.27	23.17	0.2074
78	30	60	648668 3730.02	CP-OFDM 16 QAM	1@160	22.25	22.13	25.20	23.10	0.2042
78	30	60	648668 3730.02	CP-OFDM 64 QAM	81@40	20.9	20.85	23.89	21.79	0.1508
78	30	60	648668 3730.02	CP-OFDM 64 QAM	1@1	20.87	20.54	23.72	21.62	0.1452
78	30	60	648668 3730.02	CP-OFDM 64 QAM	1@160	20.73	20.62	23.69	21.59	0.1441
78	30	60	648668 3730.02	CP-OFDM 256 QAM	81@40	17.91	17.83	20.88	18.78	0.0755
78	30	60	648668 3730.02	CP-OFDM 256 QAM	1@1	17.81	17.8	20.82	18.72	0.0744
78	30	60	648668 3730.02	CP-OFDM 256 QAM	1@160	17.61	17.92	20.78	18.68	0.0738
78	30	60	650000 3750	CP-OFDM QPSK	81@40	22.75	22.89	25.83	23.73	0.2361
78	30	60	650000 3750	CP-OFDM QPSK	1@1	22.86	22.81	25.85	23.75	0.2369
78	30	60	650000 3750	CP-OFDM	1@160	22.59	22.77	25.69	23.59	0.2286

QPSK											
78	30	60	650000	3750	CP-OFDM 16 QAM	81@40	22.24	22.43	25.35	23.25	0.2112
78	30	60	650000	3750	CP-OFDM 16 QAM	1@1	22.49	22.35	25.43	23.33	0.2153
78	30	60	650000	3750	CP-OFDM 16 QAM	1@160	22.28	22.33	25.32	23.22	0.2097
78	30	60	650000	3750	CP-OFDM 64 QAM	81@40	20.76	20.88	23.83	21.73	0.1490
78	30	60	650000	3750	CP-OFDM 64 QAM	1@1	20.81	20.59	23.71	21.61	0.1449
78	30	60	650000	3750	CP-OFDM 64 QAM	1@160	20.62	20.57	23.61	21.51	0.1414
78	30	60	650000	3750	CP-OFDM 256 QAM	81@40	17.78	17.86	20.83	18.73	0.0747
78	30	60	650000	3750	CP-OFDM 256 QAM	1@1	17.77	17.98	20.89	18.79	0.0756
78	30	60	650000	3750	CP-OFDM 256 QAM	1@160	17.54	17.95	20.76	18.66	0.0735
78	30	60	651332	3769.98	CP-OFDM QPSK	81@40	22.73	22.9	25.83	23.73	0.2358
78	30	60	651332	3769.98	CP-OFDM QPSK	1@1	22.79	22.74	25.78	23.68	0.2331
78	30	60	651332	3769.98	CP-OFDM QPSK	1@160	22.49	22.88	25.70	23.60	0.2291
78	30	60	651332	3769.98	CP-OFDM 16 QAM	81@40	22.2	22.43	25.33	23.23	0.2102
78	30	60	651332	3769.98	CP-OFDM 16 QAM	1@1	22.4	22.31	25.37	23.27	0.2121
78	30	60	651332	3769.98	CP-OFDM 16 QAM	1@160	22.23	22.55	25.40	23.30	0.2140
78	30	60	651332	3769.98	CP-OFDM 64 QAM	81@40	20.74	20.88	23.82	21.72	0.1486
78	30	60	651332	3769.98	CP-OFDM 64 QAM	1@1	20.74	20.51	23.64	21.54	0.1425
78	30	60	651332	3769.98	CP-OFDM 64 QAM	1@160	20.58	20.67	23.64	21.54	0.1424
78	30	60	651332	3769.98	CP-OFDM 256 QAM	81@40	17.72	17.89	20.82	18.72	0.0744
78	30	60	651332	3769.98	CP-OFDM 256 QAM	1@1	17.72	17.88	20.81	18.71	0.0743
78	30	60	651332	3769.98	CP-OFDM	1@160	17.45	17.89	20.69	18.59	0.0722

256 QAM											
78	30	70	649000	3735	CP-OFDM QPSK	95@47	22.35	22.86	25.62	23.52	0.2250
78	30	70	649000	3735	CP-OFDM QPSK	1@1	22.72	22.73	25.74	23.64	0.2310
78	30	70	649000	3735	CP-OFDM QPSK	1@187	22.48	22.7	25.60	23.50	0.2240
78	30	70	649000	3735	CP-OFDM 16 QAM	95@47	22.31	22.37	25.35	23.25	0.2114
78	30	70	649000	3735	CP-OFDM 16 QAM	1@1	22.3	22.13	25.23	23.13	0.2054
78	30	70	649000	3735	CP-OFDM 16 QAM	1@187	22.22	22	25.12	23.02	0.2005
78	30	70	649000	3735	CP-OFDM 64 QAM	95@47	20.63	20.69	23.67	21.57	0.1436
78	30	70	649000	3735	CP-OFDM 64 QAM	1@1	20.82	20.47	23.66	21.56	0.1432
78	30	70	649000	3735	CP-OFDM 64 QAM	1@187	20.51	20.45	23.49	21.39	0.1377
78	30	70	649000	3735	CP-OFDM 256 QAM	95@47	17.74	17.77	20.77	18.67	0.0735
78	30	70	649000	3735	CP-OFDM 256 QAM	1@1	17.73	17.85	20.80	18.70	0.0741
78	30	70	649000	3735	CP-OFDM 256 QAM	1@187	17.36	17.77	20.58	18.48	0.0705
78	30	70	650000	3750	CP-OFDM QPSK	95@47	22.37	22.81	25.61	23.51	0.2242
78	30	70	650000	3750	CP-OFDM QPSK	1@1	22.72	22.78	25.76	23.66	0.2323
78	30	70	650000	3750	CP-OFDM QPSK	1@187	22.32	22.81	25.58	23.48	0.2230
78	30	70	650000	3750	CP-OFDM 16 QAM	95@47	22.32	22.32	25.33	23.23	0.2104
78	30	70	650000	3750	CP-OFDM 16 QAM	1@1	22.37	22.16	25.28	23.18	0.2078
78	30	70	650000	3750	CP-OFDM 16 QAM	1@187	22.04	22.11	25.09	22.99	0.1989
78	30	70	650000	3750	CP-OFDM 64 QAM	95@47	20.53	20.75	23.65	21.55	0.1429
78	30	70	650000	3750	CP-OFDM 64 QAM	1@1	20.8	20.58	23.70	21.60	0.1446
78	30	70	650000	3750	CP-OFDM 64 QAM	1@187	20.36	20.5	23.44	21.34	0.1362

78	30	70	650000	3750	CP-OFDM 256 QAM	95@47	17.59	17.78	20.70	18.60	0.0724
78	30	70	650000	3750	CP-OFDM 256 QAM	1@1	17.73	17.88	20.82	18.72	0.0744
78	30	70	650000	3750	CP-OFDM 256 QAM	1@187	17.24	17.82	20.55	18.45	0.0700
78	30	70	651000	3765	CP-OFDM QPSK	95@47	22.85	22.8	25.84	23.74	0.2363
78	30	70	651000	3765	CP-OFDM QPSK	1@1	22.74	22.76	25.76	23.66	0.2323
78	30	70	651000	3765	CP-OFDM QPSK	1@187	22.28	22.9	25.61	23.51	0.2245
78	30	70	651000	3765	CP-OFDM 16 QAM	95@47	22.32	22.39	25.37	23.27	0.2121
78	30	70	651000	3765	CP-OFDM 16 QAM	1@1	22.44	22.29	25.38	23.28	0.2126
78	30	70	651000	3765	CP-OFDM 16 QAM	1@187	22.17	22.27	25.23	23.13	0.2056
78	30	70	651000	3765	CP-OFDM 64 QAM	95@47	20.85	20.8	23.84	21.74	0.1491
78	30	70	651000	3765	CP-OFDM 64 QAM	1@1	20.8	20.5	23.66	21.56	0.1433
78	30	70	651000	3765	CP-OFDM 64 QAM	1@187	20.38	20.5	23.45	21.35	0.1365
78	30	70	651000	3765	CP-OFDM 256 QAM	95@47	17.66	17.82	20.75	18.65	0.0733
78	30	70	651000	3765	CP-OFDM 256 QAM	1@1	17.69	17.9	20.81	18.71	0.0742
78	30	70	651000	3765	CP-OFDM 256 QAM	1@187	17.84	17.95	20.91	18.81	0.0760
78	30	80	649334	3740.01	CP-OFDM QPSK	109@54	22.67	22.77	25.73	23.63	0.2307
78	30	80	649334	3740.01	CP-OFDM QPSK	1@1	22.72	22.72	25.73	23.63	0.2307
78	30	80	649334	3740.01	CP-OFDM QPSK	1@215	22.44	22.76	25.61	23.51	0.2246
78	30	80	649334	3740.01	CP-OFDM 16 QAM	109@54	22.19	22.31	25.26	23.16	0.2070
78	30	80	649334	3740.01	CP-OFDM 16 QAM	1@1	22.29	22.07	25.19	23.09	0.2038
78	30	80	649334	3740.01	CP-OFDM 16 QAM	1@215	22.02	22.19	25.12	23.02	0.2003
78	30	80	649334	3740.01	CP-OFDM	109@54	20.71	20.7	23.72	21.62	0.1451

64 QAM										
78	30	80	649334 3740.01	CP-OFDM 64 QAM	1@1	20.74	20.42	23.59	21.49	0.1410
78	30	80	649334 3740.01	CP-OFDM 64 QAM	1@215	20.37	20.5	23.45	21.35	0.1363
78	30	80	649334 3740.01	CP-OFDM 256 QAM	109@54	17.65	17.73	20.70	18.60	0.0725
78	30	80	649334 3740.01	CP-OFDM 256 QAM	1@1	17.64	17.81	20.74	18.64	0.0730
78	30	80	649334 3740.01	CP-OFDM 256 QAM	1@215	17.33	17.78	20.57	18.47	0.0703
78	30	80	650000 3750	CP-OFDM QPSK	109@54	22.58	22.77	25.69	23.59	0.2284
78	30	80	650000 3750	CP-OFDM QPSK	1@1	22.77	22.81	25.80	23.70	0.2344
78	30	80	650000 3750	CP-OFDM QPSK	1@215	22.38	22.85	25.63	23.53	0.2255
78	30	80	650000 3750	CP-OFDM 16 QAM	109@54	22.13	22.29	25.22	23.12	0.2052
78	30	80	650000 3750	CP-OFDM 16 QAM	1@1	22.29	22.12	25.22	23.12	0.2049
78	30	80	650000 3750	CP-OFDM 16 QAM	1@215	21.9	22.3	25.11	23.01	0.2002
78	30	80	650000 3750	CP-OFDM 64 QAM	109@54	20.65	20.77	23.72	21.62	0.1452
78	30	80	650000 3750	CP-OFDM 64 QAM	1@1	20.81	20.55	23.69	21.59	0.1443
78	30	80	650000 3750	CP-OFDM 64 QAM	1@215	20.32	20.57	23.46	21.36	0.1367
78	30	80	650000 3750	CP-OFDM 256 QAM	109@54	17.59	17.7	20.66	18.56	0.0717
78	30	80	650000 3750	CP-OFDM 256 QAM	1@1	17.64	17.85	20.76	18.66	0.0734
78	30	80	650000 3750	CP-OFDM 256 QAM	1@215	17.53	17.88	20.72	18.62	0.0728
78	30	80	650666 3759.99	CP-OFDM QPSK	109@54	22.62	22.76	25.70	23.60	0.2291
78	30	80	650666 3759.99	CP-OFDM QPSK	1@1	22.78	22.74	25.77	23.67	0.2328
78	30	80	650666 3759.99	CP-OFDM QPSK	1@215	22.41	22.87	25.66	23.56	0.2268
78	30	80	650666 3759.99	CP-OFDM	109@54	22.14	22.23	25.20	23.10	0.2040

16 QAM										
78	30	80	650666 3759.99	CP-OFDM 16 QAM	1@1	22.26	22.19	25.24	23.14	0.2058
78	30	80	650666 3759.99	CP-OFDM 16 QAM	1@215	21.95	22.35	25.16	23.06	0.2025
78	30	80	650666 3759.99	CP-OFDM 64 QAM	109@54	20.67	20.68	23.69	21.59	0.1441
78	30	80	650666 3759.99	CP-OFDM 64 QAM	1@1	20.72	20.55	23.65	21.55	0.1428
78	30	80	650666 3759.99	CP-OFDM 64 QAM	1@215	20.32	20.61	23.48	21.38	0.1373
78	30	80	650666 3759.99	CP-OFDM 256 QAM	109@54	17.6	17.67	20.65	18.55	0.0715
78	30	80	650666 3759.99	CP-OFDM 256 QAM	1@1	17.7	17.88	20.80	18.70	0.0742
78	30	80	650666 3759.99	CP-OFDM 256 QAM	1@215	17.56	17.94	20.76	18.66	0.0735
78	30	90	649668 3745.02	CP-OFDM QPSK	123@61	22.7	22.7	25.71	23.61	0.2296
78	30	90	649668 3745.02	CP-OFDM QPSK	1@1	22.65	22.69	25.68	23.58	0.2281
78	30	90	649668 3745.02	CP-OFDM QPSK	1@243	22.34	22.8	25.59	23.49	0.2232
78	30	90	649668 3745.02	CP-OFDM 16 QAM	123@61	22.15	22.25	25.21	23.11	0.2047
78	30	90	649668 3745.02	CP-OFDM 16 QAM	1@1	22.32	22.22	25.28	23.18	0.2080
78	30	90	649668 3745.02	CP-OFDM 16 QAM	1@243	21.95	22.28	25.13	23.03	0.2008
78	30	90	649668 3745.02	CP-OFDM 64 QAM	123@61	20.68	20.71	23.71	21.61	0.1447
78	30	90	649668 3745.02	CP-OFDM 64 QAM	1@1	20.77	20.5	23.65	21.55	0.1428
78	30	90	649668 3745.02	CP-OFDM 64 QAM	1@243	20.43	20.66	23.56	21.46	0.1399
78	30	90	649668 3745.02	CP-OFDM 256 QAM	123@61	17.66	17.68	20.68	18.58	0.0721
78	30	90	649668 3745.02	CP-OFDM 256 QAM	1@1	17.68	17.81	20.76	18.66	0.0734
78	30	90	649668 3745.02	CP-OFDM 256 QAM	1@243	17.56	18	20.80	18.70	0.0741
78	30	90	650000 3750	CP-OFDM QPSK	123@61	22.67	22.69	25.69	23.59	0.2286

78	30	90	650000	3750	CP-OFDM QPSK	1@1	22.64	22.55	25.61	23.51	0.2242
78	30	90	650000	3750	CP-OFDM QPSK	1@243	22.34	22.83	25.60	23.50	0.2240
78	30	90	650000	3750	CP-OFDM 16 QAM	123@61	22.13	22.28	25.22	23.12	0.2049
78	30	90	650000	3750	CP-OFDM 16 QAM	1@1	22.21	22.1	25.17	23.07	0.2026
78	30	90	650000	3750	CP-OFDM 16 QAM	1@243	21.85	22.37	25.13	23.03	0.2008
78	30	90	650000	3750	CP-OFDM 64 QAM	123@61	20.62	20.73	23.69	21.59	0.1441
78	30	90	650000	3750	CP-OFDM 64 QAM	1@1	20.8	20.33	23.58	21.48	0.1407
78	30	90	650000	3750	CP-OFDM 64 QAM	1@243	20.5	20.57	23.55	21.45	0.1395
78	30	90	650000	3750	CP-OFDM 256 QAM	123@61	17.6	17.7	20.66	18.56	0.0718
78	30	90	650000	3750	CP-OFDM 256 QAM	1@1	17.66	17.8	20.74	18.64	0.0731
78	30	90	650000	3750	CP-OFDM 256 QAM	1@243	17.89	18.04	20.98	18.88	0.0772
78	30	90	650332	3754.98	CP-OFDM QPSK	123@61	22.66	22.68	25.68	23.58	0.2281
78	30	90	650332	3754.98	CP-OFDM QPSK	1@1	22.74	22.61	25.69	23.59	0.2283
78	30	90	650332	3754.98	CP-OFDM QPSK	1@243	22.36	22.89	25.64	23.54	0.2261
78	30	90	650332	3754.98	CP-OFDM 16 QAM	123@61	22.09	22.24	25.18	23.08	0.2030
78	30	90	650332	3754.98	CP-OFDM 16 QAM	1@1	22.24	22.14	25.20	23.10	0.2042
78	30	90	650332	3754.98	CP-OFDM 16 QAM	1@243	21.86	22.33	25.11	23.01	0.2001
78	30	90	650332	3754.98	CP-OFDM 64 QAM	123@61	20.52	20.68	23.61	21.51	0.1416
78	30	90	650332	3754.98	CP-OFDM 64 QAM	1@1	20.85	20.37	23.63	21.53	0.1421
78	30	90	650332	3754.98	CP-OFDM 64 QAM	1@243	20.47	20.58	23.54	21.44	0.1392
78	30	90	650332	3754.98	CP-OFDM 256 QAM	123@61	17.5	17.67	20.60	18.50	0.0707
78	30	90	650332	3754.98	CP-OFDM	1@1	17.64	17.75	20.71	18.61	0.0725

256 QAM											
78	30	90	650332	3754.98	CP-OFDM 256 QAM	1@243	17.56	17.99	20.79	18.69	0.0740
78	30	100	650000	3750	CP-OFDM QPSK	137@68	22.65	22.66	25.67	23.57	0.2273
78	30	100	650000	3750	CP-OFDM QPSK	1@1	22.68	22.6	25.65	23.55	0.2265
78	30	100	650000	3750	CP-OFDM QPSK	1@271	22.69	22.98	25.85	23.75	0.2370
78	30	100	650000	3750	CP-OFDM 16 QAM	137@68	22.13	22.25	25.20	23.10	0.2042
78	30	100	650000	3750	CP-OFDM 16 QAM	1@1	22.24	21.97	25.12	23.02	0.2003
78	30	100	650000	3750	CP-OFDM 16 QAM	1@271	21.89	22.35	25.14	23.04	0.2012
78	30	100	650000	3750	CP-OFDM 64 QAM	137@68	20.59	20.73	23.67	21.57	0.1436
78	30	100	650000	3750	CP-OFDM 64 QAM	1@1	20.85	20.63	23.75	21.65	0.1463
78	30	100	650000	3750	CP-OFDM 64 QAM	1@271	20.53	20.58	23.57	21.47	0.1401
78	30	100	650000	3750	CP-OFDM 256 QAM	137@68	17.56	17.75	20.67	18.57	0.0719
78	30	100	650000	3750	CP-OFDM 256 QAM	1@1	17.65	17.73	20.70	18.60	0.0725
78	30	100	650000	3750	CP-OFDM 256 QAM	1@271	17.86	18.03	20.96	18.86	0.0768



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	23~25°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna, we choose the worst antenna mode to test.

n77 SA / NR 100MHz / QPSK / ANT8								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7402.90	-57.78	-13	-44.78	-64.21	-61.11	8.25	H
	11104.35	-56.37	-13	-43.37	-67.13	-57.92	10.45	H
	14805.80	-53.78	-13	-40.78	-66.91	-55.49	11.74	H
	7402.90	-57.42	-13	-44.42	-64.17	-60.75	8.25	V
	11104.35	-56.55	-13	-43.55	-67.05	-58.10	10.45	V
	14805.80	-51.70	-13	-38.70	-67.00	-53.41	11.74	V
Middle	7582.90	-58.50	-13	-45.5	-64.48	-61.80	8.30	H
	11374.35	-56.06	-13	-43.06	-67.74	-57.58	10.48	H
	15165.80	-53.69	-13	-40.69	-68.07	-55.39	11.80	H
	7582.90	-57.98	-13	-44.98	-64.44	-61.28	8.30	V
	11374.35	-56.04	-13	-43.04	-67.68	-57.56	10.48	V
	15165.80	-52.06	-13	-39.06	-68.01	-53.76	11.80	V
Highest	7762.90	-58.29	-13	-45.29	-63.79	-61.59	8.32	H
	11644.35	-55.87	-13	-42.87	-68.00	-57.55	10.52	H
	15525.80	-52.15	-13	-39.15	-67.54	-53.85	11.85	H
	7762.90	-57.48	-13	-44.48	-63.62	-60.78	8.32	V
	11644.35	-55.66	-13	-42.66	-67.75	-57.34	10.52	V
	15525.80	-52.62	-13	-39.62	-67.85	-54.32	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC 7A_n77A / LTE 20MHz + NR 100MHz / QPSK / ANT1(LTE) & ANT8(NR)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n77 Lowest	7402.90	-57.59	-13	-44.59	-64.02	-60.92	8.25	11.58	H
	11104.35	-55.89	-13	-42.89	-66.65	-57.44	10.45	12.00	H
	14805.80	-53.29	-13	-40.29	-66.42	-55.00	11.74	13.45	H
	7402.90	-56.91	-13	-43.91	-63.66	-60.24	8.25	11.58	V
	11104.35	-56.15	-13	-43.15	-66.65	-57.70	10.45	12.00	V
	14805.80	-51.16	-13	-38.16	-66.46	-52.87	11.74	13.45	V
LTE Band7 Lowest	5052.18	-59.95	-25	-34.95	-34.95	-65.51	7.12	12.68	H
	7578.27	-58.21	-25	-33.21	-33.21	-61.54	8.26	11.59	H
	10104.36	-56.50	-25	-31.50	-31.50	-58.03	10.45	11.98	H
	5052.18	-60.13	-25	-35.13	-35.13	-65.69	7.12	12.68	V
	7578.27	-57.59	-25	-32.59	-32.59	-60.92	8.26	11.59	V
	10104.36	-57.82	-25	-32.82	-32.82	-59.35	10.45	11.98	V
NR n77 Middle	7582.90	-58.02	-13	-45.02	-64.00	-61.32	8.30	11.60	H
	11374.35	-55.38	-13	-42.38	-67.06	-56.90	10.48	12.00	H
	15165.80	-52.87	-13	-39.87	-67.25	-54.57	11.80	13.50	H
	7582.90	-57.32	-13	-44.32	-63.78	-60.62	8.30	11.60	V
	11374.35	-55.32	-13	-42.32	-66.96	-56.84	10.48	12.00	V
	15165.80	-51.50	-13	-38.5	-67.45	-53.20	11.80	13.50	V
LTE Band7 Middle	5052.18	-59.59	-25	-34.59	-79.20	-65.15	7.14	12.70	H
	7578.27	-58.11	-25	-33.11	-64.10	-61.41	8.30	11.60	H
	10104.36	-56.68	-25	-31.68	-66.73	-58.20	10.48	12.00	H
	5052.18	-60.13	-25	-35.13	-79.63	-65.69	7.14	12.70	V
	7578.27	-57.69	-25	-32.69	-64.16	-60.99	8.30	11.60	V
	10104.36	-57.76	-25	-32.76	-66.47	-59.28	10.48	12.00	V
NR n77 Highest	7762.90	-58.08	-13	-45.08	-63.58	-61.38	8.32	11.62	H
	11644.35	-55.80	-13	-42.80	-67.93	-57.48	10.52	12.20	H
	15525.80	-51.74	-13	-38.74	-67.13	-53.44	11.85	13.55	H
	7762.90	-55.36	-13	-42.36	-63.34	-58.66	8.32	11.62	V
	11644.35	-55.57	-13	-42.57	-67.15	-57.25	10.52	12.20	V
	15525.80	-51.76	-13	-38.76	-67.13	-53.46	11.85	13.55	V
LTE Band7 Highest	5052.18	-59.60	-25	-34.60	-79.21	-65.16	7.16	12.72	H
	7578.27	-58.21	-25	-33.21	-64.20	-61.51	8.33	11.63	H
	10104.36	-56.73	-25	-31.73	-66.78	-58.33	10.50	12.10	H
	5052.18	-59.90	-25	-34.90	-79.4	-65.46	7.16	12.72	V
	7578.27	-57.76	-25	-32.76	-64.23	-61.06	8.33	11.63	V
	10104.36	-58.13	-25	-33.13	-66.84	-59.73	10.50	12.10	V



n77 UL MIMO / NR 100MHz / QPSK / ANT8(NR) & ANT7(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7402.9	-57.35	-13	-44.35	-63.78	-60.68	8.25	H
	11104.35	-55.87	-13	-42.87	-66.63	-57.42	10.45	H
	14805.8	-53.43	-13	-40.43	-66.56	-55.14	11.74	H
	7402.9	-57.11	-13	-44.11	-63.86	-60.44	8.25	V
	11104.35	-56.03	-13	-43.03	-66.53	-57.58	10.45	V
	14805.8	-51.14	-13	-38.14	-66.44	-52.85	11.74	V
Middle	7582.90	-57.72	-13	-44.72	-63.70	-61.02	8.30	H
	11374.35	-55.38	-13	-42.38	-67.06	-56.90	10.48	H
	15165.80	-52.94	-13	-39.94	-67.32	-54.64	11.80	H
	7582.90	-57.54	-13	-44.54	-64	-60.84	8.30	V
	11374.35	-55.15	-13	-42.15	-66.79	-56.67	10.48	V
	15165.80	-51.22	-13	-38.22	-67.17	-52.92	11.80	V
Highest	7762.9	-57.81	-13	-44.81	-63.31	-61.11	8.32	H
	11644.35	-55.32	-13	-42.32	-67.45	-57.00	10.52	H
	15525.8	-51.74	-13	-38.74	-67.13	-53.44	11.85	H
	7762.9	-57.20	-13	-44.20	-63.34	-60.50	8.32	V
	11644.35	-55.06	-13	-42.06	-67.15	-56.74	10.52	V
	15525.8	-51.90	-13	-38.90	-67.13	-53.60	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.