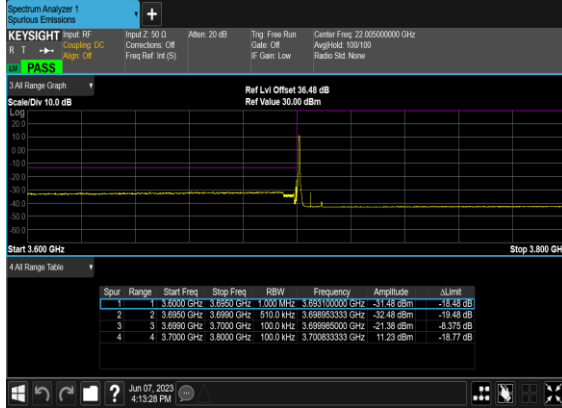
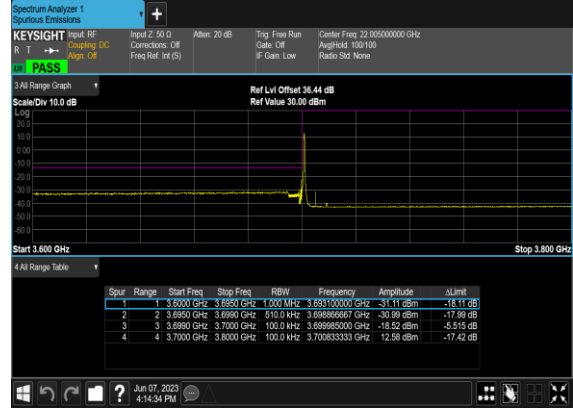


N77(10M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



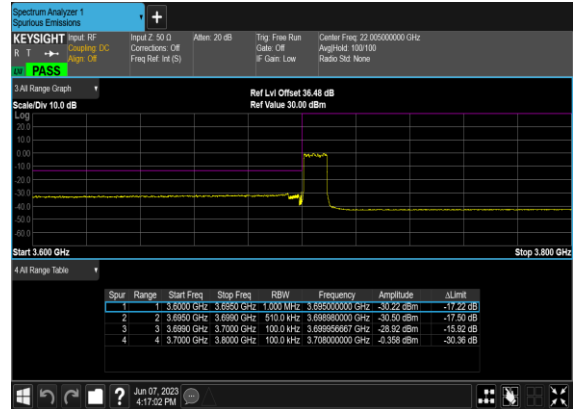
N77(10M)_CP-OFDM_16QAM_Edge_1RB_Left_Low_CH



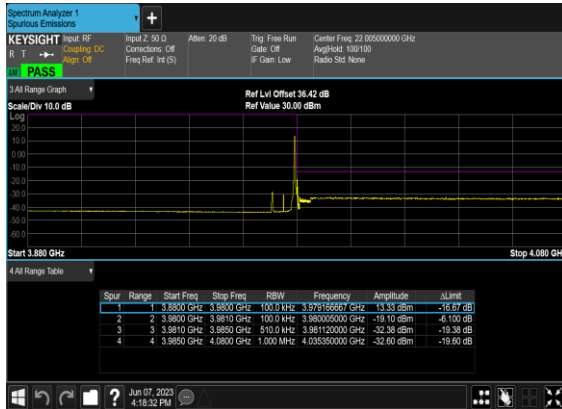
N77(10M)_CP-OFDM_QPSK_Outer_Full_Low_CH



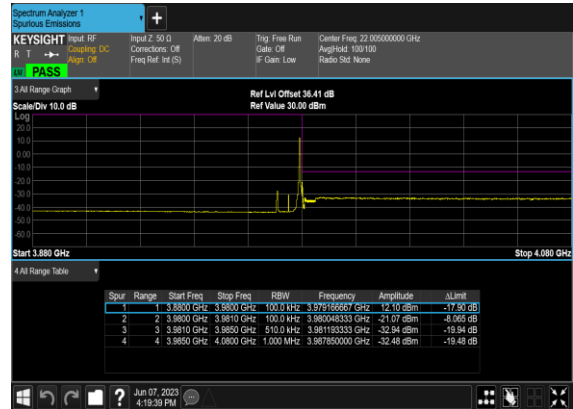
N77(10M)_CP-OFDM_16QAM_Outer_Full_Low_CH



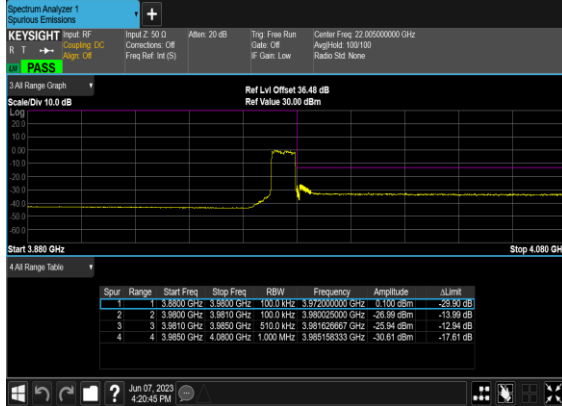
N77(10M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



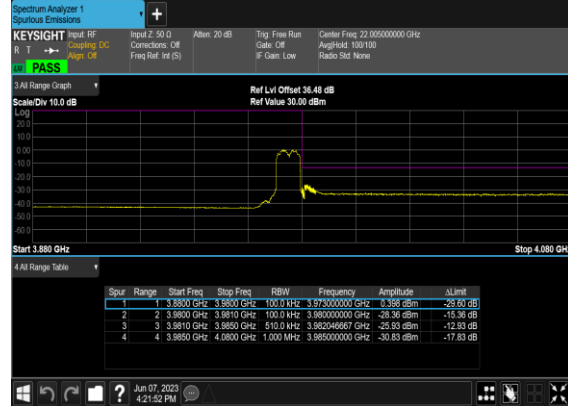
N77(10M)_CP-OFDM_16QAM_Edge_1RB_Right_High_CH



N77(10M)_CP-OFDM_QPSK_Outer_Full_High_CH



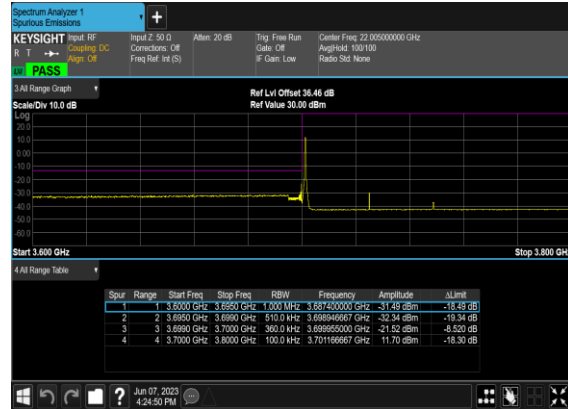
N77(10M)_CP-OFDM_16 QAM_Outer_Full_High_CH



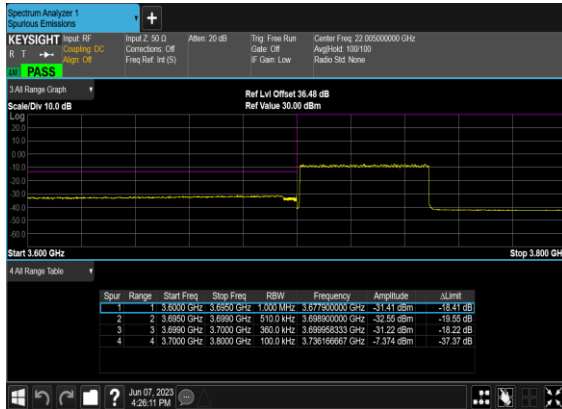
N77(50M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



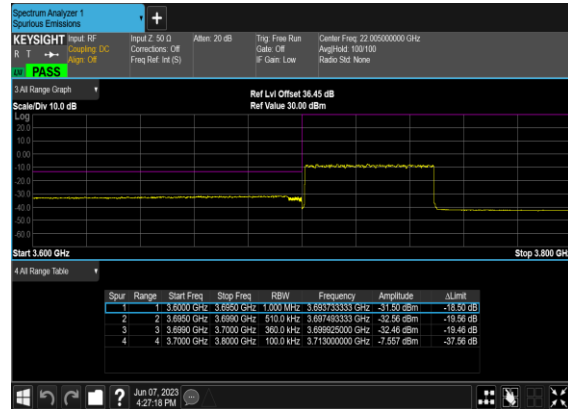
N77(50M)_CP-OFDM_16 QAM_Edge_1RB_Left_Low_CH



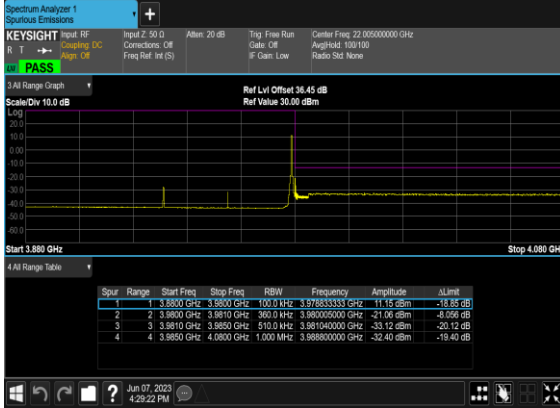
N77(50M)_CP-OFDM_QPSK_Outer_Full_Low_CH



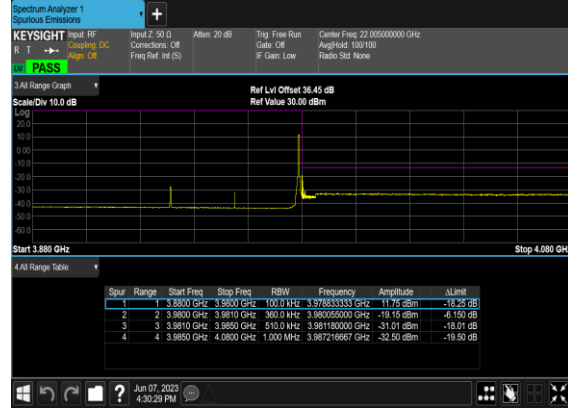
N77(50M)_CP-OFDM_16 QAM_Outer_Full_Low_CH



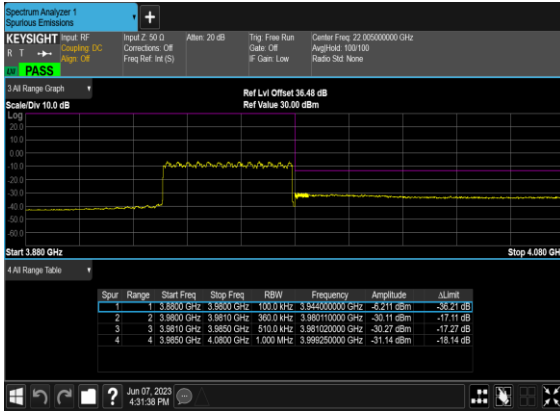
N77(50M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



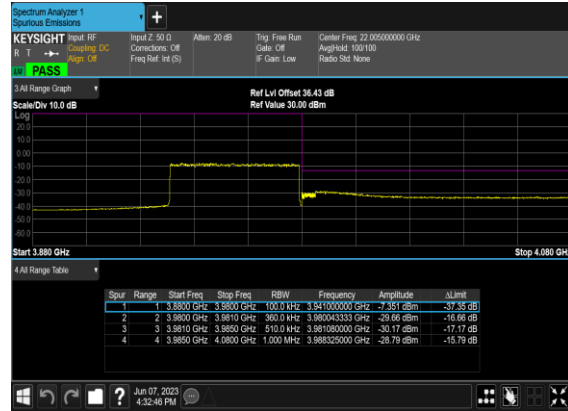
N77(50M)_CP-OFDM_16QAM_Edge_1RB_Right_High_CH



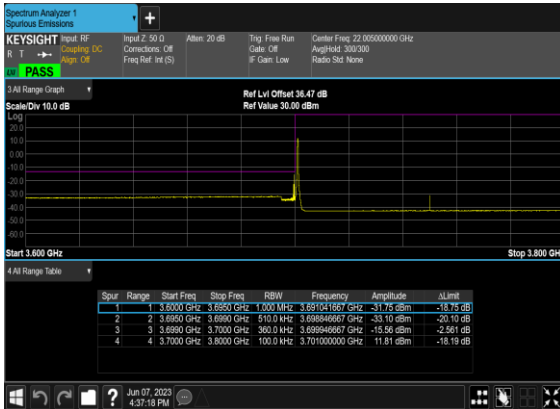
N77(50M)_CP-OFDM_QPSK_Outer_Full_High_CH



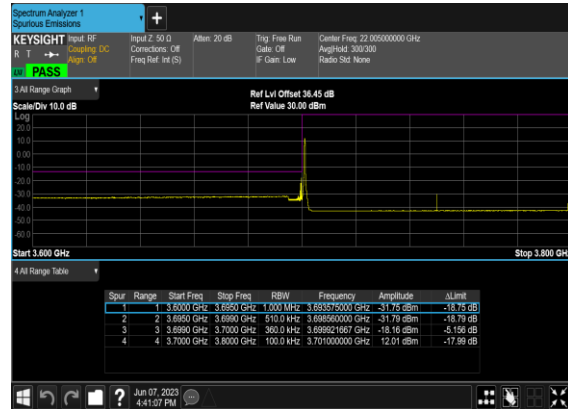
N77(50M)_CP-OFDM_16QAM_Outer_Full_High_CH



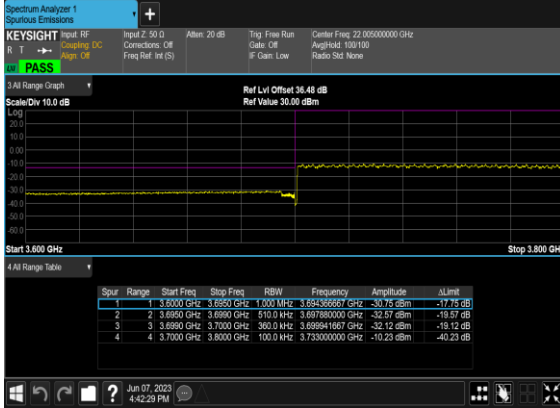
N77(100M)_CP-OFDM_QPSK_Edge_1RB_Left_Low_CH



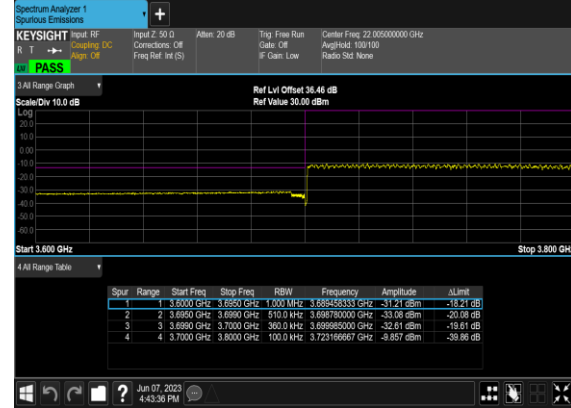
N77(100M)_CP-OFDM_16QAM_Edge_1RB_Left_Low_CH



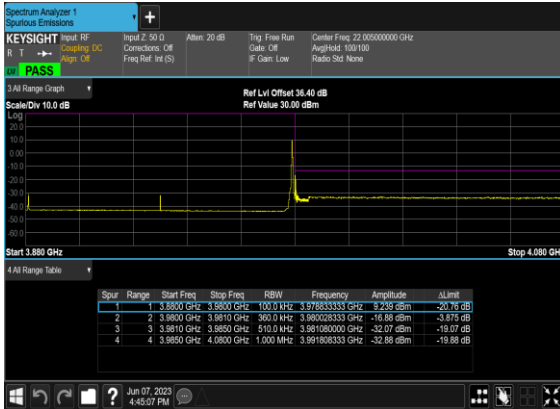
N77(100M)_CP-OFDM_QPSK_Outer_Full_Low_CH



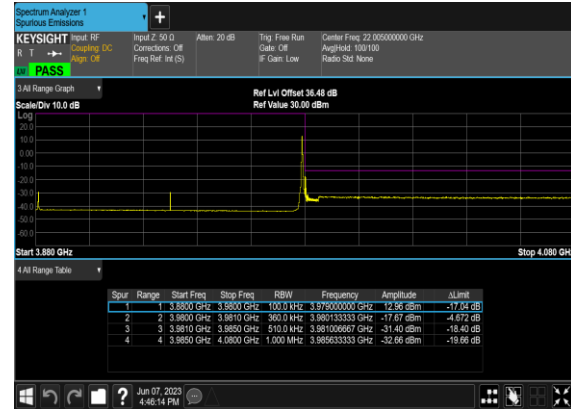
N77(100M)_CP-OFDM_16QAM_Outer_Full_Low_CH



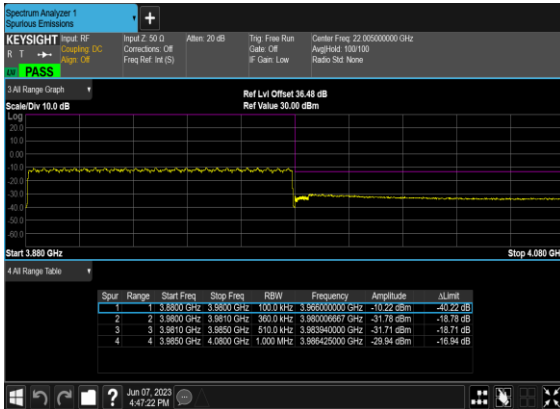
N77(100M)_CP-OFDM_QPSK_Edge_1RB_Right_High_CH



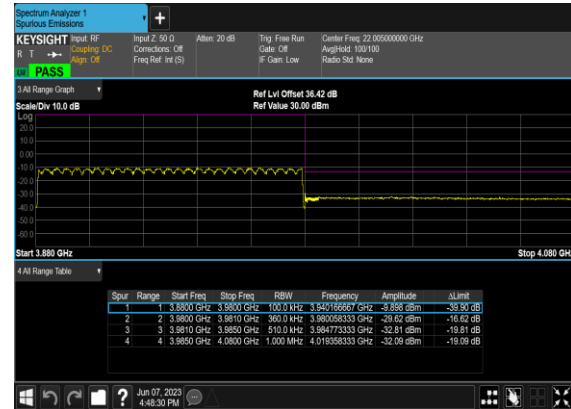
N77(100M)_CP-OFDM_16QAM_Edge_1RB_Right_High_CH



N77(100M)_CP-OFDM_QPSK_Outer_Full_High_CH



N77(100M)_CP-OFDM_16QAM_Outer_Full_High_CH



FR1 N78 MIMO(Ant3+2)

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-2.4dB

NR	Band	SCS	Band Width	Arfcn	Freq(MHz)	Modulation	RB	ANT3 Power(dBm)	ANT1 Power(dBm)	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
78	30	10	647000	3705	CP-OFDM QPSK	1@1	19.35	20.22	22.81	20.41	0.1099	
78	30	10	647000	3705	CP-OFDM 16 QAM	1@1	19.39	19.38	22.42	20.02	0.1005	
78	30	10	647000	3705	CP-OFDM 64 QAM	1@1	18.44	18.5	21.49	19.09	0.0811	
78	30	10	650000	3750	CP-OFDM QPSK	1@1	19.67	19.68	22.71	20.31	0.1074	
78	30	10	650000	3750	CP-OFDM 16 QAM	1@1	19.77	19.38	22.58	20.18	0.1042	
78	30	10	650000	3750	CP-OFDM 64 QAM	1@1	18.82	18.42	21.65	19.25	0.0841	
78	30	10	653000	3795	CP-OFDM QPSK	1@1	19.53	19.51	22.52	20.12	0.1028	
78	30	10	653000	3795	CP-OFDM 16 QAM	1@1	19.62	19.24	22.43	20.03	0.1007	
78	30	10	653000	3795	CP-OFDM 64 QAM	1@1	18.71	18.38	21.53	19.13	0.0818	
78	30	15	647168	3707.52	CP-OFDM QPSK	1@1	19.45	19.84	22.64	20.24	0.1057	
78	30	15	647168	3707.52	CP-OFDM 16 QAM	1@1	19.53	19.71	22.64	20.24	0.1057	
78	30	15	647168	3707.52	CP-OFDM 64 QAM	1@1	18.57	18.67	21.63	19.23	0.0838	
78	30	15	650000	3750	CP-OFDM QPSK	1@1	19.86	19.76	22.8	20.4	0.1096	
78	30	15	650000	3750	CP-OFDM 16 QAM	1@1	19.95	19.73	22.9	20.5	0.1122	
78	30	15	650000	3750	CP-OFDM 64 QAM	1@1	18.98	18.6	21.81	19.41	0.0873	
78	30	15	652832	3792.48	CP-OFDM QPSK	1@1	19.72	19.57	22.65	20.25	0.1059	
78	30	15	652832	3792.48	CP-OFDM 16 QAM	1@1	19.82	19.56	22.72	20.32	0.1076	
78	30	15	652832	3792.48	CP-OFDM 64 QAM	1@1	18.83	18.47	21.67	19.27	0.0845	
78	30	20	647334	3710.01	CP-OFDM QPSK	1@1	19.34	19.84	22.61	20.21	0.1050	
78	30	20	647334	3710.01	CP-OFDM 16 QAM	1@1	19.53	19.58	22.57	20.17	0.1040	
78	30	20	647334	3710.01	CP-OFDM 64 QAM	1@1	18.5	18.64	21.58	19.18	0.0828	
78	30	20	650000	3750	CP-OFDM QPSK	1@1	19.81	19.77	22.79	20.39	0.1094	
78	30	20	650000	3750	CP-OFDM 16 QAM	1@1	19.97	19.74	22.83	20.43	0.1104	
78	30	20	650000	3750	CP-OFDM 64 QAM	1@1	18.86	18.63	21.75	19.35	0.0861	
78	30	20	652666	3789.99	CP-OFDM QPSK	1@1	19.93	19.8	22.87	20.47	0.1114	
78	30	20	652666	3789.99	CP-OFDM 16 QAM	1@1	19.78	19.53	22.68	20.28	0.1067	
78	30	20	652666	3789.99	CP-OFDM 64 QAM	1@1	18.84	18.51	21.68	19.28	0.0847	
78	30	30	647668	3715.02	CP-OFDM QPSK	1@1	19.51	20.02	22.78	20.38	0.1091	
78	30	30	647668	3715.02	CP-OFDM 16 QAM	1@1	19.63	19.76	22.7	20.3	0.1072	
78	30	30	647668	3715.02	CP-OFDM 64 QAM	1@1	18.72	18.82	21.8	19.4	0.0871	
78	30	30	650000	3750	CP-OFDM QPSK	1@1	20	19.93	22.97	20.57	0.1140	
78	30	30	650000	3750	CP-OFDM 16 QAM	1@1	20.13	19.82	23.01	20.61	0.1151	
78	30	30	650000	3750	CP-OFDM 64 QAM	1@1	19.1	18.82	21.98	19.58	0.0908	
78	30	30	652332	3784.98	CP-OFDM QPSK	1@1	19.91	19.76	22.84	20.44	0.1107	
78	30	30	652332	3784.98	CP-OFDM 16 QAM	1@1	20.09	19.56	22.86	20.46	0.1112	
78	30	30	652332	3784.98	CP-OFDM 64 QAM	1@1	19.05	18.65	21.84	19.44	0.0879	
78	30	40	648000	3720	CP-OFDM QPSK	1@1	19.7	20.09	22.89	20.49	0.1119	
78	30	40	648000	3720	CP-OFDM 16 QAM	1@1	19.78	20.04	22.9	20.5	0.1122	

78	30	40	648000	3720	CP-OFDM 64 QAM	1@1	18.77	18.89	21.85	19.45	0.0881
78	30	40	650000	3750	CP-OFDM QPSK	1@1	20.08	20.03	23.04	20.64	0.1159
78	30	40	650000	3750	CP-OFDM 16 QAM	1@1	20.1	19.9	23.07	20.67	0.1167
78	30	40	650000	3750	CP-OFDM 64 QAM	1@1	19.12	18.85	22.02	19.62	0.0916
78	30	40	652000	3780	CP-OFDM QPSK	1@1	20.1	20.13	23.13	20.73	0.1183
78	30	40	652000	3780	CP-OFDM 16 QAM	1@1	19	20.31	22.71	20.31	0.1074
78	30	40	652000	3780	CP-OFDM 64 QAM	1@1	19.17	18.96	22.14	19.74	0.0942
78	30	50	648334	3725.01	CP-OFDM QPSK	1@1	19.3	19.76	22.51	20.11	0.1026
78	30	50	648334	3725.01	CP-OFDM 16 QAM	1@1	19.51	19.67	22.58	20.18	0.1042
78	30	50	648334	3725.01	CP-OFDM 64 QAM	1@1	18.49	18.63	21.58	19.18	0.0828
78	30	50	650000	3750	CP-OFDM QPSK	1@1	19.58	19.64	22.64	20.24	0.1057
78	30	50	650000	3750	CP-OFDM 16 QAM	1@1	19.71	19.59	22.62	20.22	0.1052
78	30	50	650000	3750	CP-OFDM 64 QAM	1@1	18.7	18.55	21.67	19.27	0.0845
78	30	50	651666	3774.99	CP-OFDM QPSK	1@1	19.6	19.81	22.7	20.3	0.1072
78	30	50	651666	3774.99	CP-OFDM 16 QAM	1@1	19.75	19.51	22.59	20.19	0.1045
78	30	50	651666	3774.99	CP-OFDM 64 QAM	1@1	18.8	18.57	21.69	19.29	0.0849
78	30	60	648668	3730.02	CP-OFDM QPSK	1@1	19.27	19.77	22.54	20.14	0.1033
78	30	60	648668	3730.02	CP-OFDM 16 QAM	1@1	19.39	19.51	22.42	20.02	0.1005
78	30	60	648668	3730.02	CP-OFDM 64 QAM	1@1	18.35	18.55	21.46	19.06	0.0805
78	30	60	650000	3750	CP-OFDM QPSK	1@1	19.49	19.66	22.63	20.23	0.1054
78	30	60	650000	3750	CP-OFDM 16 QAM	1@1	19.66	19.56	22.6	20.2	0.1047
78	30	60	650000	3750	CP-OFDM 64 QAM	1@1	18.71	18.74	21.8	19.4	0.0871
78	30	60	651332	3769.98	CP-OFDM QPSK	1@1	19.57	19.69	22.63	20.23	0.1054
78	30	60	651332	3769.98	CP-OFDM 16 QAM	1@1	19.7	19.49	22.55	20.15	0.1035
78	30	60	651332	3769.98	CP-OFDM 64 QAM	1@1	18.72	18.52	21.63	19.23	0.0838
78	30	70	649000	3735	CP-OFDM QPSK	1@1	19.28	19.66	22.51	20.11	0.1026
78	30	70	649000	3735	CP-OFDM 16 QAM	1@1	19.48	19.54	22.52	20.12	0.1028
78	30	70	649000	3735	CP-OFDM 64 QAM	1@1	18.43	18.55	21.51	19.11	0.0815
78	30	70	650000	3750	CP-OFDM QPSK	1@1	19.55	19.79	22.65	20.25	0.1059
78	30	70	650000	3750	CP-OFDM 16 QAM	1@1	19.62	19.67	22.65	20.25	0.1059
78	30	70	650000	3750	CP-OFDM 64 QAM	1@1	18.68	18.64	21.67	19.27	0.0845
78	30	70	651000	3765	CP-OFDM QPSK	1@1	19.46	19.73	22.64	20.24	0.1057
78	30	70	651000	3765	CP-OFDM 16 QAM	1@1	19.72	19.6	22.61	20.21	0.1050
78	30	70	651000	3765	CP-OFDM 64 QAM	1@1	18.72	18.53	21.63	19.23	0.0838
78	30	80	649334	3740.01	CP-OFDM QPSK	1@1	19.14	19.56	22.39	19.99	0.0998
78	30	80	649334	3740.01	CP-OFDM 16 QAM	1@1	19.29	19.22	22.31	19.91	0.0979
78	30	80	649334	3740.01	CP-OFDM 64 QAM	1@1	18.34	18.47	21.38	18.98	0.0791
78	30	80	650000	3750	CP-OFDM QPSK	1@1	19.38	19.71	22.56	20.16	0.1038
78	30	80	650000	3750	CP-OFDM 16 QAM	1@1	19.54	19.71	22.62	20.22	0.1052
78	30	80	650000	3750	CP-OFDM 64 QAM	1@1	18.49	18.64	21.54	19.14	0.0820
78	30	80	650666	3759.99	CP-OFDM QPSK	1@1	19.44	19.75	22.63	20.23	0.1054
78	30	80	650666	3759.99	CP-OFDM 16 QAM	1@1	19.63	19.51	22.57	20.17	0.1040
78	30	80	650666	3759.99	CP-OFDM 64 QAM	1@1	18.68	18.56	21.64	19.24	0.0839
78	30	90	649668	3745.02	CP-OFDM QPSK	1@1	19.23	19.64	22.47	20.07	0.1016

78	30	90	649668	3745.02	CP-OFDM 16 QAM	1@1	19.36	19.38	22.43	20.03	0.1007
78	30	90	649668	3745.02	CP-OFDM 64 QAM	1@1	18.37	18.54	21.44	19.04	0.0802
78	30	90	650000	3750	CP-OFDM QPSK	1@1	19.3	19.55	22.45	20.05	0.1012
78	30	90	650000	3750	CP-OFDM 16 QAM	1@1	19.34	19.4	22.4	20	0.1000
78	30	90	650000	3750	CP-OFDM 64 QAM	1@1	18.35	18.43	21.39	18.99	0.0793
78	30	90	650332	3754.98	CP-OFDM QPSK	1@1	19.24	19.67	22.51	20.11	0.1026
78	30	90	650332	3754.98	CP-OFDM 16 QAM	1@1	19.38	19.37	22.43	20.03	0.1007
78	30	90	650332	3754.98	CP-OFDM 64 QAM	1@1	18.44	18.53	21.46	19.06	0.0805
78	30	100	650000	3750	CP-OFDM QPSK	137@68	19.14	20.2	22.74	20.34	0.1081
78	30	100	650000	3750	CP-OFDM QPSK	1@1	20.19	19.98	23.14	20.74	0.1186
78	30	100	650000	3750	CP-OFDM QPSK	1@271	19	20.15	22.6	20.2	0.1047
78	30	100	650000	3750	CP-OFDM 16 QAM	137@68	19.17	20.18	22.74	20.34	0.1081
78	30	100	650000	3750	CP-OFDM 16 QAM	1@1	19.08	20.05	22.61	20.21	0.1050
78	30	100	650000	3750	CP-OFDM 16 QAM	1@271	19.16	19.94	22.58	20.18	0.1042
78	30	100	650000	3750	CP-OFDM 64 QAM	137@68	18.31	19.29	21.84	19.44	0.0879
78	30	100	650000	3750	CP-OFDM 64 QAM	1@1	18.07	19.15	21.63	19.23	0.0838
78	30	100	650000	3750	CP-OFDM 64 QAM	1@271	18.15	18.93	21.57	19.17	0.0826
78	30	100	650000	3750	CP-OFDM 256 QAM	137@68	15.31	16.35	18.86	16.46	0.0443
78	30	100	650000	3750	CP-OFDM 256 QAM	1@1	14.99	16.52	18.82	16.42	0.0439
78	30	100	650000	3750	CP-OFDM 256 QAM	1@271	14.99	16.31	18.75	16.35	0.0432



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carl Ni	Temperature :	23~25°C
		Relative Humidity :	41~42%

RSE pre-scanned harmonic for different antennas, choose the worst antenna perform final test and record in the report.

n77 SA / NR 100MHz / QPSK(ANT3)								
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	7404	-52.74	-13	-39.74	-62.95	3.03	13.24	H
	11106	-49.63	-13	-36.63	-59.08	3.56	13.01	H
	14820	-43.88	-13	-30.88	-53.40	3.92	13.44	H
	7404	-55.56	-13	-42.56	-65.77	3.03	13.24	V
	11106	-51.98	-13	-38.98	-61.43	3.56	13.01	V
	14820	-43.12	-13	-30.12	-52.64	3.92	13.44	V
Middle	7584	-53.29	-13	-40.29	-63.50	3.03	13.24	H
	11388	-53.43	-13	-40.43	-62.88	3.56	13.01	H
	15180	-45.25	-13	-32.25	-54.77	3.92	13.44	H
	7584	-57.23	-13	-44.23	-67.44	3.03	13.24	V
	11388	-53.32	-13	-40.32	-62.77	3.56	13.01	V
	15180	-44.75	-13	-31.75	-54.27	3.92	13.44	V
Highest	7764	-53.00	-13	-40.00	-63.21	3.03	13.24	H
	11646	-49.06	-13	-36.06	-58.51	3.56	13.01	H
	15540	-44.88	-13	-31.88	-54.40	3.92	13.44	H
	7764	-54.22	-13	-41.22	-64.43	3.03	13.24	V
	11646	-52.51	-13	-39.51	-61.96	3.56	13.01	V
	15540	-44.59	-13	-31.59	-54.11	3.92	13.44	V

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



EN-DC_41A_n77A / LTE 10MHz + NR 100MHz / QPSK(ANT2+3)								
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	7404	-57.33	-13	-44.33	-67.54	3.03	13.24	H
	11112	-52.12	-13	-39.12	-61.57	3.56	13.01	H
	14820	-44.06	-13	-31.06	-53.58	3.92	13.44	H
	7404	-55.71	-13	-42.71	-65.92	3.03	13.24	V
	11112	-51.45	-13	-38.45	-60.90	3.56	13.01	V
	14820	-42.83	-13	-29.83	-52.35	3.92	13.44	V
Middle	7584	-52.19	-13	-39.19	-62.40	3.03	13.24	H
	11376	-48.03	-13	-35.03	-57.48	3.56	13.01	H
	15180	-44.63	-13	-31.63	-54.15	3.92	13.44	H
	7584	-54.23	-13	-41.23	-64.44	3.03	13.24	V
	11376	-51.14	-13	-38.14	-60.59	3.56	13.01	V
	15180	-44.70	-13	-31.70	-54.22	3.92	13.44	V
Highest	7764	-46.54	-13	-33.54	-56.75	3.03	13.24	H
	11646	-49.42	-13	-36.42	-58.87	3.56	13.01	H
	15540	-44.04	-13	-31.04	-53.56	3.92	13.44	H
	7764	-51.94	-13	-38.94	-62.15	3.03	13.24	V
	11646	-51.12	-13	-38.12	-60.57	3.56	13.01	V
	15540	-43.96	-13	-30.96	-53.48	3.92	13.44	V

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

n77 UL MIMO / NR 100+100MHz / QPSK(ANT3+2)								
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	7404	-55.54	-13	-42.54	-65.75	3.03	13.24	H
	11106	-49.69	-13	-36.69	-59.14	3.56	13.01	H
	14820	-43.84	-13	-30.84	-53.36	3.92	13.44	H
	7404	-52.69	-13	-39.69	-62.90	3.03	13.24	V
	11106	-51.73	-13	-38.73	-61.18	3.56	13.01	V
	14820	-43.58	-13	-30.58	-53.10	3.92	13.44	V
Middle	7584	-54.33	-13	-41.33	-64.54	3.03	13.24	H
	11376	-47.87	-13	-34.87	-57.32	3.56	13.01	H
	15180	-44.77	-13	-31.77	-54.29	3.92	13.44	H
	7590	-57.92	-13	-44.92	-68.13	3.03	13.24	V
	11376	-50.17	-13	-37.17	-59.62	3.56	13.01	V
	15180	-44.64	-13	-31.64	-54.16	3.92	13.44	V
Highest	7764	-47.27	-13	-34.27	-57.48	3.03	13.24	H
	11646	-50.20	-13	-37.20	-59.65	3.56	13.01	H
	15540	-44.41	-13	-31.41	-53.93	3.92	13.44	H
	7764	-50.99	-13	-37.99	-61.20	3.03	13.24	V
	11646	-52.12	-13	-39.12	-61.57	3.56	13.01	V
	15540	-44.09	-13	-31.09	-53.61	3.92	13.44	V

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