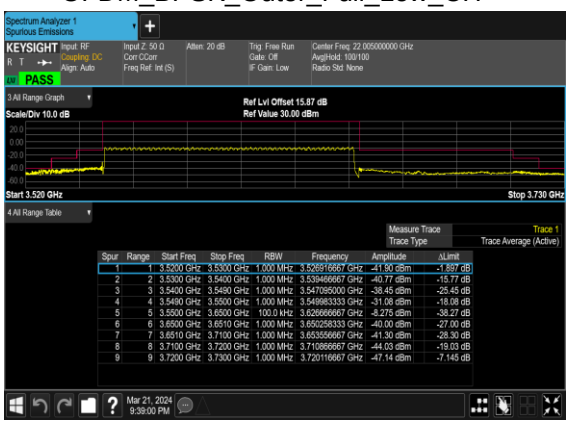
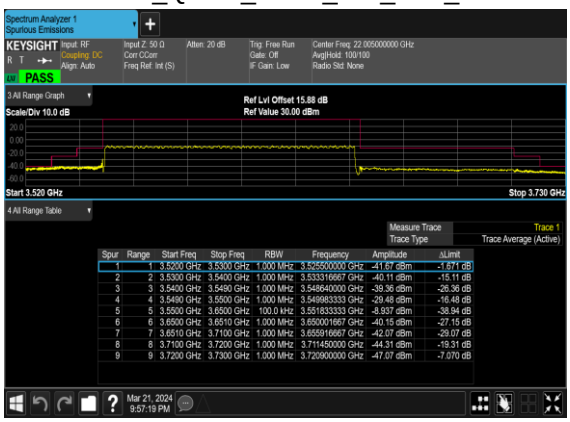
N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

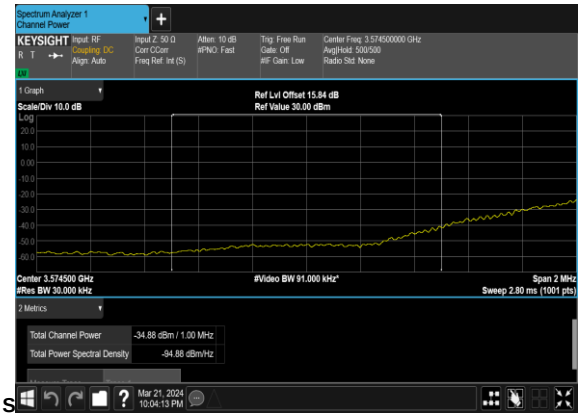


N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

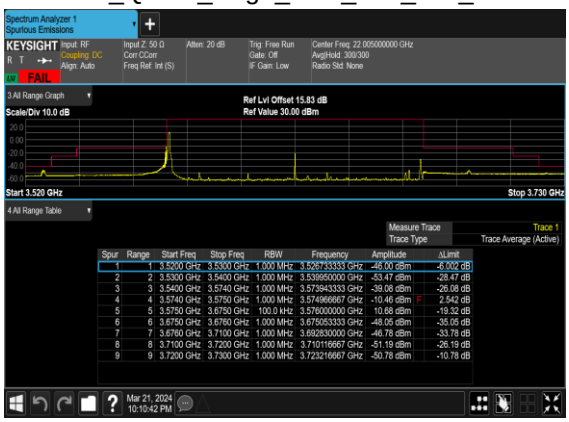


N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

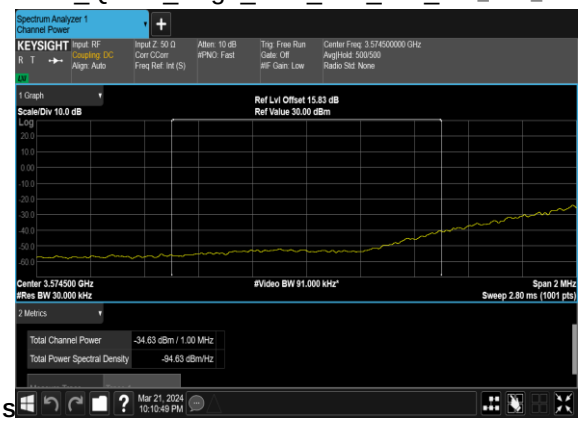
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH_**CHP_PAS**



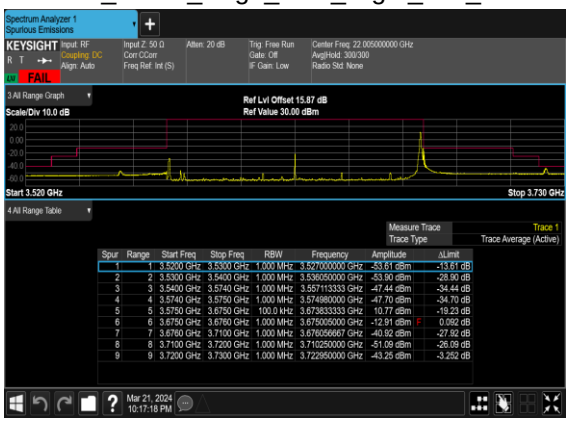
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



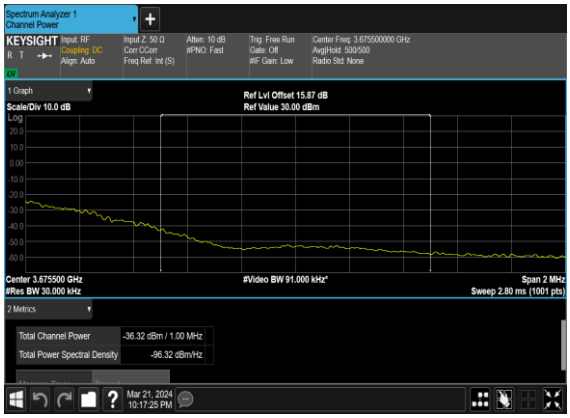
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH_**CHP_PAS**



N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH

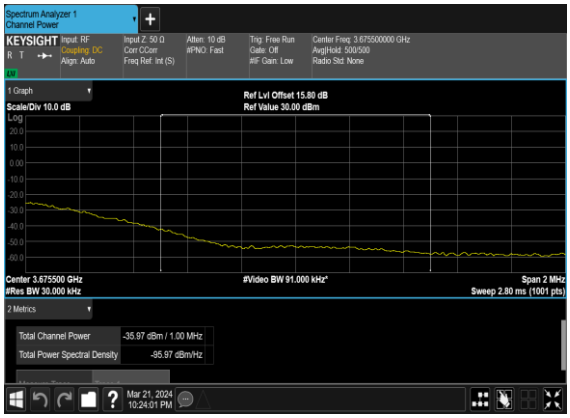


N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH_**CHP_PASS**

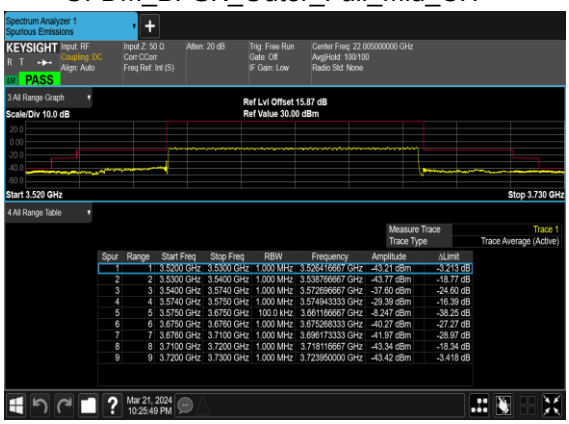


N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

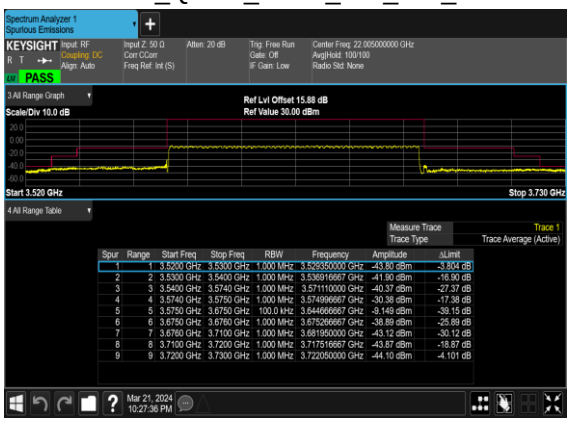
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH_**CHP_PASS**



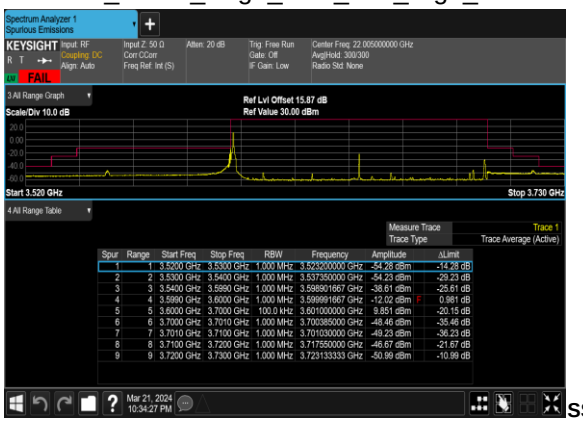
N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



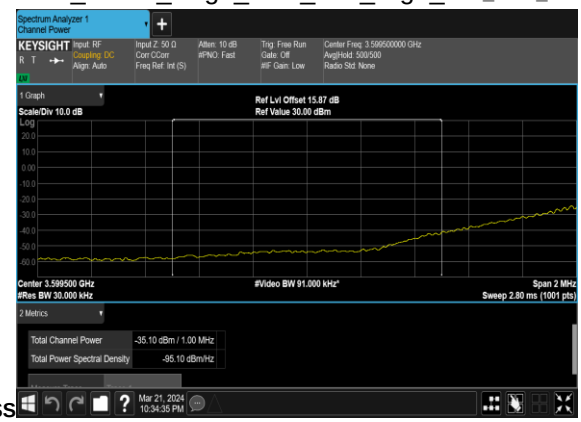
N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

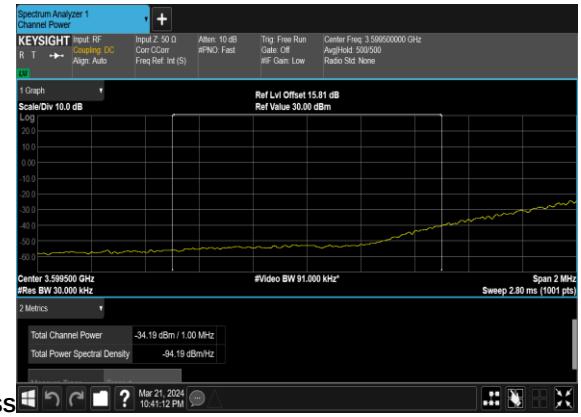


N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH_**CHP_PASS**

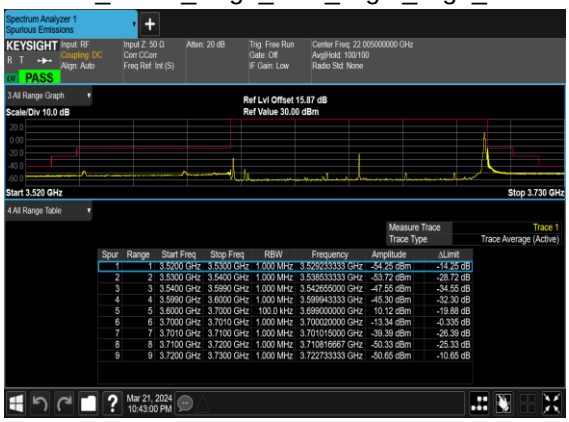


N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

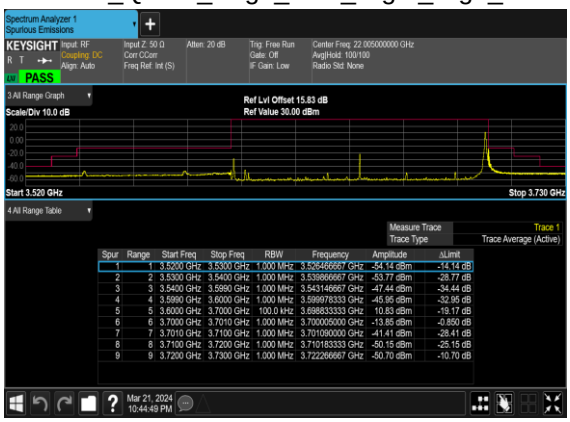
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH_**CHP_PASS**



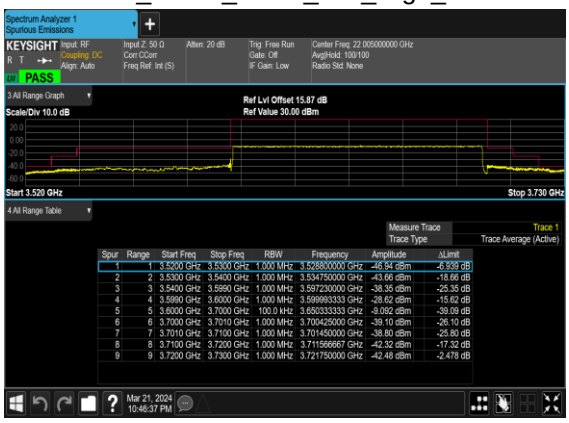
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



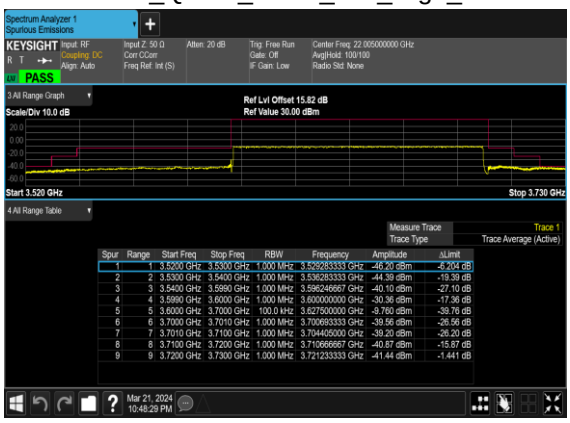
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Software Version: 23.06.1602

FR1 N78 (ANT2)

LTE Band: 38(ANT1), LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-1.0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	637000	3555	DFT-s-OFDM QPSK	1@1	20.46	19.46	0.0883
78	30	10	637000	3555	DFT-s-OFDM 16 QAM	1@1	19.5	18.5	0.0708
78	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.62	19.62	0.0916
78	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.66	18.66	0.0735
78	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	20.5	19.5	0.0891
78	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	19.26	18.26	0.0670
78	30	15	637168	3557.52	DFT-s-OFDM QPSK	1@1	20.19	19.19	0.0830
78	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@1	19.29	18.29	0.0675
78	30	15	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.64	19.64	0.0920
78	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.74	18.74	0.0748
78	30	15	646166	3692.49	DFT-s-OFDM QPSK	1@1	20.3	19.3	0.0851
78	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@1	19.5	18.5	0.0708
78	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	20.48	19.48	0.0887
78	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	19.57	18.57	0.0719
78	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.63	19.63	0.0918
78	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.73	18.73	0.0746
78	30	20	646000	3690	DFT-s-OFDM QPSK	1@1	20.33	19.33	0.0857
78	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	19.6	18.6	0.0724
78	30	25	647500	3562.5	DFT-s-OFDM QPSK	1@1	20.35	19.35	0.0861
78	30	25	647500	3562.5	DFT-s-OFDM 16 QAM	1@1	19.37	18.37	0.0687
78	30	25	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.37	19.37	0.0865
78	30	25	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.39	18.39	0.0690
78	30	25	645833	3687.495	DFT-s-OFDM QPSK	1@1	20.36	19.36	0.0863
78	30	25	645833	3687.495	DFT-s-OFDM 16 QAM	1@1	19.57	18.57	0.0719
78	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@1	20.25	19.25	0.0841
78	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@1	19.27	18.27	0.0671
78	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.35	19.35	0.0861
78	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.42	18.42	0.0695

78	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@1	20.43	19.43	0.0877
78	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	19.59	18.59	0.0723
78	30	40	638000	3570	DFT-s-OFDM QPSK	1@1	20.26	19.26	0.0843
78	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	19.28	18.28	0.0673
78	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.55	19.55	0.0902
78	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.65	18.65	0.0733
78	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	20.2	19.2	0.0832
78	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	19.55	18.55	0.0716
78	30	50	638334	3575.01	DFT-s-OFDM QPSK	1@1	19.88	18.88	0.0773
78	30	50	638334	3575.01	DFT-s-OFDM 16 QAM	1@1	18.88	17.88	0.0614
78	30	50	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.28	19.28	0.0847
78	30	50	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.31	18.31	0.0678
78	30	50	645000	3675	DFT-s-OFDM QPSK	1@1	19.96	18.96	0.0787
78	30	50	645000	3675	DFT-s-OFDM 16 QAM	1@1	18.98	17.98	0.0628
78	30	60	638668	3580.02	DFT-s-OFDM QPSK	1@1	19.82	18.82	0.0762
78	30	60	638668	3580.02	DFT-s-OFDM 16 QAM	1@1	18.85	17.85	0.0610
78	30	60	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.16	19.16	0.0824
78	30	60	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.17	18.17	0.0656
78	30	60	644666	3669.99	DFT-s-OFDM QPSK	1@1	19.82	18.82	0.0762
78	30	60	644666	3669.99	DFT-s-OFDM 16 QAM	1@1	18.86	17.86	0.0611
78	30	70	639000	3585	DFT-s-OFDM QPSK	1@1	20.15	19.15	0.0822
78	30	70	639000	3585	DFT-s-OFDM 16 QAM	1@1	19.16	18.16	0.0655
78	30	70	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.37	19.37	0.0865
78	30	70	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.39	18.39	0.0690
78	30	70	644332	3664.98	DFT-s-OFDM QPSK	1@1	20.27	19.27	0.0845
78	30	70	644332	3664.98	DFT-s-OFDM 16 QAM	1@1	19.29	18.29	0.0675
78	30	80	639334	3590.01	DFT-s-OFDM QPSK	1@1	20.23	19.23	0.0838
78	30	80	639334	3590.01	DFT-s-OFDM 16 QAM	1@1	19.25	18.25	0.0668
78	30	80	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.27	19.27	0.0845
78	30	80	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.34	18.34	0.0682
78	30	80	644000	3660	DFT-s-OFDM QPSK	1@1	20.28	19.28	0.0847
78	30	80	644000	3660	DFT-s-OFDM 16 QAM	1@1	19.29	18.29	0.0675
78	30	90	639668	3595.02	DFT-s-OFDM QPSK	1@1	20.47	19.47	0.0885
78	30	90	639668	3595.02	DFT-s-OFDM 16 QAM	1@1	19.54	18.54	0.0714
78	30	90	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.16	19.16	0.0824

78	30	90	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.17	18.17	0.0656
78	30	90	643666	3654.99	DFT-s-OFDM QPSK	1@1	20.05	19.05	0.0804
78	30	90	643666	3654.99	DFT-s-OFDM 16 QAM	1@1	19.06	18.06	0.0640
78	30	100	640000	3600	DFT-s-OFDM PI/2 BPSK	135@67	20.52	19.52	0.0895
78	30	100	640000	3600	DFT-s-OFDM PI/2 BPSK	1@1	20.65	19.65	0.0923
78	30	100	640000	3600	DFT-s-OFDM PI/2 BPSK	1@271	20.38	19.38	0.0867
78	30	100	640000	3600	DFT-s-OFDM QPSK	135@67	20.43	19.43	0.0877
78	30	100	640000	3600	DFT-s-OFDM QPSK	1@1	20.67	19.67	0.0927
78	30	100	640000	3600	DFT-s-OFDM QPSK	1@271	20.42	19.42	0.0875
78	30	100	640000	3600	DFT-s-OFDM 16 QAM	135@67	19.39	18.39	0.0690
78	30	100	640000	3600	DFT-s-OFDM 16 QAM	1@1	19.89	18.89	0.0774
78	30	100	640000	3600	DFT-s-OFDM 16 QAM	1@271	19.67	18.67	0.0736
78	30	100	640000	3600	DFT-s-OFDM 64 QAM	135@67	17.88	16.88	0.0488
78	30	100	640000	3600	DFT-s-OFDM 64 QAM	1@1	18.29	17.29	0.0536
78	30	100	640000	3600	DFT-s-OFDM 64 QAM	1@271	17.77	16.77	0.0475
78	30	100	640000	3600	DFT-s-OFDM 256 QAM	135@67	16.33	15.33	0.0341
78	30	100	640000	3600	DFT-s-OFDM 256 QAM	1@1	16.09	15.09	0.0323
78	30	100	640000	3600	DFT-s-OFDM 256 QAM	1@271	15.49	14.49	0.0281
78	30	100	640000	3600	CP-OFDM QPSK	137@68	19.2	18.2	0.0661
78	30	100	640000	3600	CP-OFDM QPSK	1@1	19.34	18.34	0.0682
78	30	100	640000	3600	CP-OFDM QPSK	1@271	18.7	17.7	0.0589
78	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	135@67	20.41	19.41	0.0873
78	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	20.64	19.64	0.0920
78	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@271	20.3	19.3	0.0851
78	30	100	641666	3624.99	DFT-s-OFDM QPSK	135@67	20.38	19.38	0.0867
78	30	100	641666	3624.99	DFT-s-OFDM QPSK	1@1	20.76	19.76	0.0946
78	30	100	641666	3624.99	DFT-s-OFDM QPSK	1@271	20.47	19.47	0.0885
78	30	100	641666	3624.99	DFT-s-OFDM 16 QAM	135@67	19.36	18.36	0.0685
78	30	100	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	19.97	18.97	0.0789
78	30	100	641666	3624.99	DFT-s-OFDM 16 QAM	1@271	19.47	18.47	0.0703
78	30	100	641666	3624.99	DFT-s-OFDM 64 QAM	135@67	17.88	16.88	0.0488
78	30	100	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	18.23	17.23	0.0528
78	30	100	641666	3624.99	DFT-s-OFDM 64 QAM	1@271	17.61	16.61	0.0458
78	30	100	641666	3624.99	DFT-s-OFDM 256 QAM	135@67	16.2	15.2	0.0331
78	30	100	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	15.99	14.99	0.0316

78	30	100	641666	3624.99	DFT-s-OFDM 256 QAM	1@271	15.36	14.36	0.0273
78	30	100	641666	3624.99	CP-OFDM QPSK	137@68	19.1	18.1	0.0646
78	30	100	641666	3624.99	CP-OFDM QPSK	1@1	19.08	18.08	0.0643
78	30	100	641666	3624.99	CP-OFDM QPSK	1@271	18.52	17.52	0.0565
78	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	135@67	20.5	19.5	0.0891
78	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	1@1	20.53	19.53	0.0897
78	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	1@271	20.79	19.79	0.0953
78	30	100	643332	3649.98	DFT-s-OFDM QPSK	135@67	20.57	19.57	0.0906
78	30	100	643332	3649.98	DFT-s-OFDM QPSK	1@1	20.57	19.57	0.0906
78	30	100	643332	3649.98	DFT-s-OFDM QPSK	1@271	20.82	19.82	0.0959
78	30	100	643332	3649.98	DFT-s-OFDM 16 QAM	135@67	19.58	18.58	0.0721
78	30	100	643332	3649.98	DFT-s-OFDM 16 QAM	1@1	19.91	18.91	0.0778
78	30	100	643332	3649.98	DFT-s-OFDM 16 QAM	1@271	20	19	0.0794
78	30	100	643332	3649.98	DFT-s-OFDM 64 QAM	135@67	17.87	16.87	0.0486
78	30	100	643332	3649.98	DFT-s-OFDM 64 QAM	1@1	17.97	16.97	0.0498
78	30	100	643332	3649.98	DFT-s-OFDM 64 QAM	1@271	18.05	17.05	0.0507
78	30	100	643332	3649.98	DFT-s-OFDM 256 QAM	135@67	15.92	14.92	0.0310
78	30	100	643332	3649.98	DFT-s-OFDM 256 QAM	1@1	15.85	14.85	0.0305
78	30	100	643332	3649.98	DFT-s-OFDM 256 QAM	1@271	15.83	14.83	0.0304
78	30	100	643332	3649.98	CP-OFDM QPSK	137@68	18.81	17.81	0.0604
78	30	100	643332	3649.98	CP-OFDM QPSK	1@1	19.05	18.05	0.0638
78	30	100	643332	3649.98	CP-OFDM QPSK	1@271	19.12	18.12	0.0649

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	HuaCong Liang	Temperature :	22~25℃
		Relative Humidity :	48~52%

n77 SA / NR 100MHz / QPSK(ANT2)									
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)
Middle	7152.50	-55.33	-40	-15.33	-63.73	-58.63	8.30	11.60	H
	10728.75	-54.55	-40	-14.55	-67.73	-56.07	10.48	12.00	H
	14305.00	-53.27	-40	-13.27	-69.29	-54.97	11.80	13.50	H
	7152.50	-54.94	-40	-14.94	-64.98	-58.24	8.30	11.60	V
	10728.75	-52.05	-40	-12.05	-67.75	-53.57	10.48	12.00	V
	14305.00	-54.10	-40	-14.10	-69.59	-55.80	11.80	13.50	V

EN-DC_7A_n78A / LTE 20MHz + NR 100MHz / QPSK(ANT1+ANT2)									
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 n78 Middle	7152.50	-56.83	-40	-16.83	-65.23	-60.13	8.30	11.60	H
	10728.50	-55.13	-40	-15.13	-68.31	-56.65	10.48	12.00	H
	14304.50	-52.78	-40	-12.78	-68.80	-54.48	11.80	13.50	H
	7152.50	-56.11	-40	-16.11	-66.15	-59.41	8.30	11.60	V
	10728.50	-51.98	-40	-11.98	-67.68	-53.50	10.48	12.00	V
	14304.50	-52.64	-40	-12.64	-68.13	-54.34	11.80	13.50	V
LTE Band7 Middle	5061.18	-61.60	-25	-36.60	-65.82	-67.16	7.14	12.70	H
	7591.77	-59.39	-25	-34.39	-67.64	-62.69	8.30	11.60	H
	10122.36	-56.53	-25	-31.53	-68.28	-58.05	10.48	12.00	H
	5061.18	-60.49	-25	-35.49	-65.92	-66.05	7.14	12.70	V
	7591.77	-59.50	-25	-34.50	-67.75	-62.80	8.30	11.60	V
	10122.36	-55.24	-25	-30.24	-68.04	-56.76	10.48	12.00	V

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