

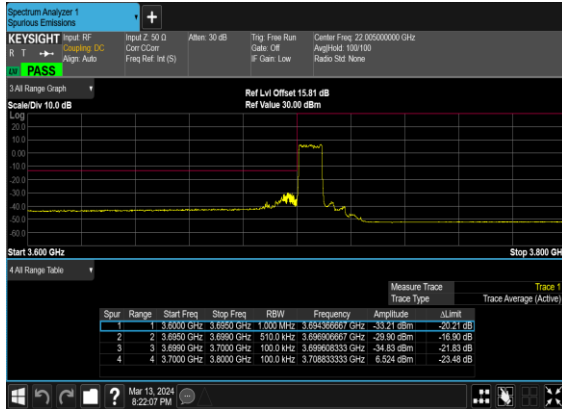
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



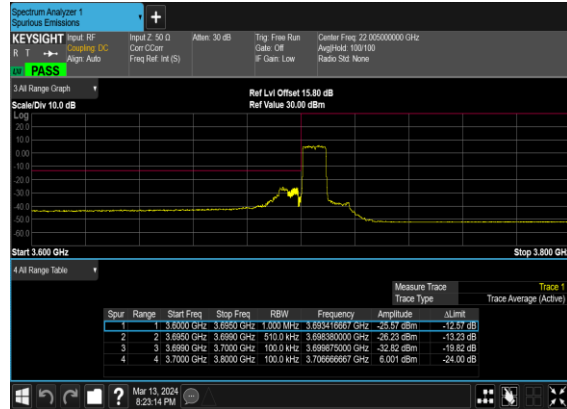
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



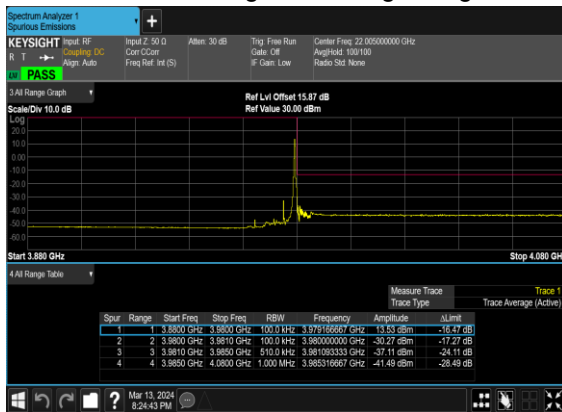
### N77(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



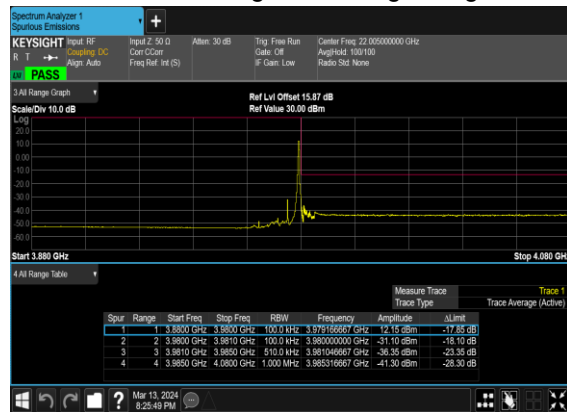
### N77(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



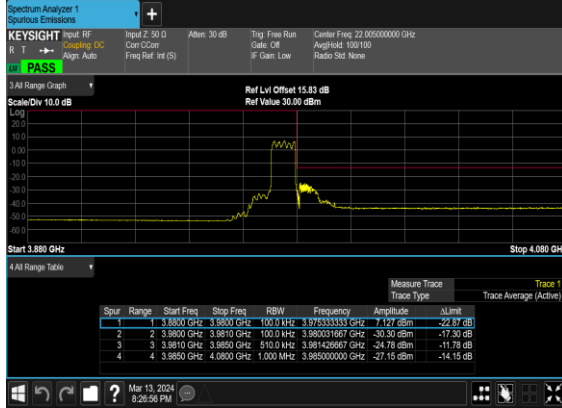
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



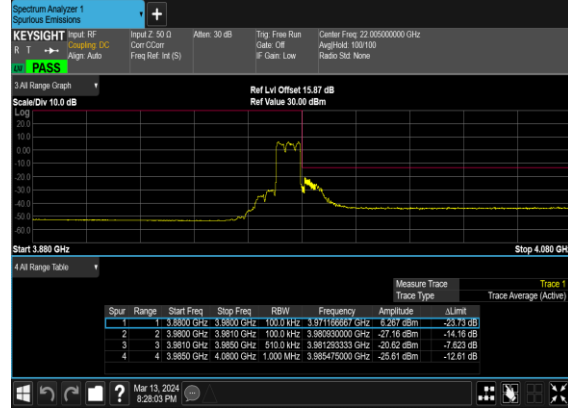
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



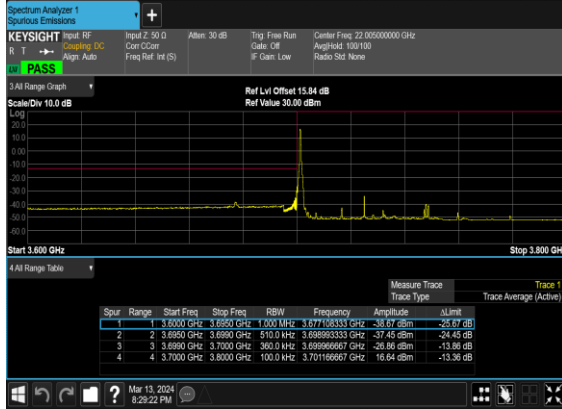
N77(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



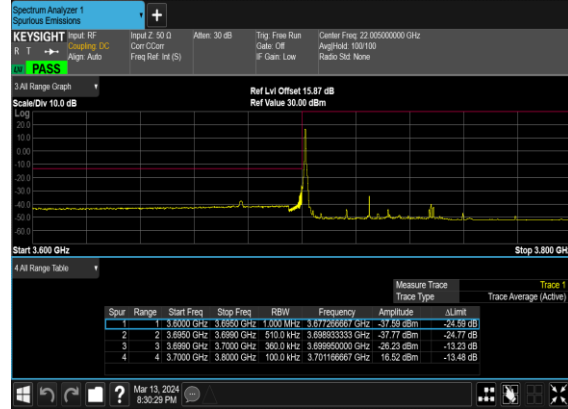
N77(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



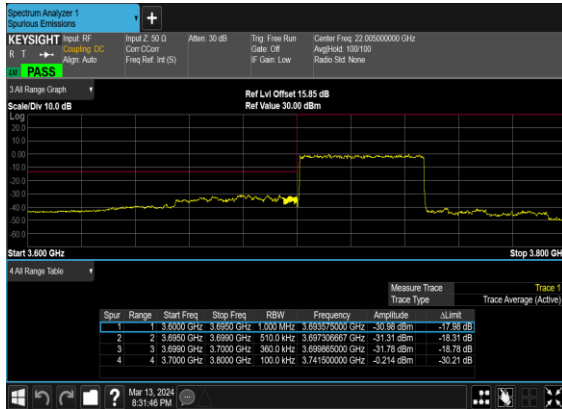
N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



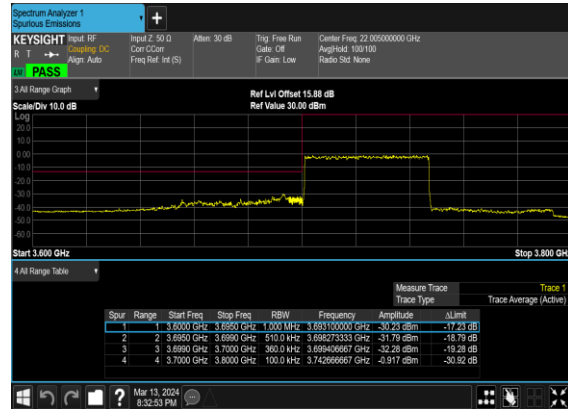
N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



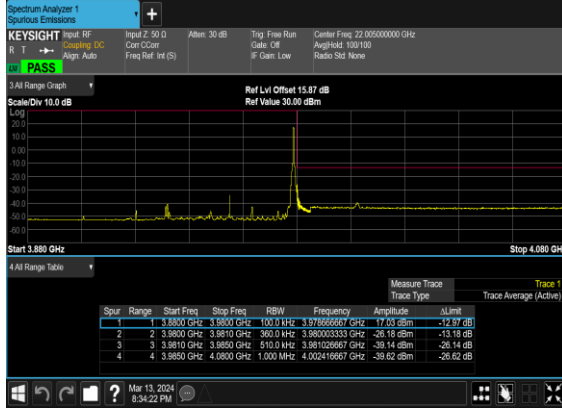
N77(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



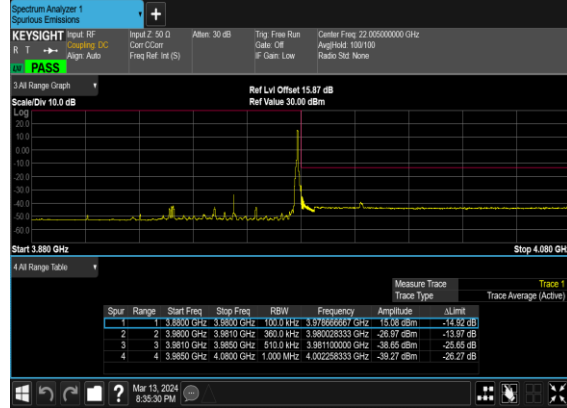
N77(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



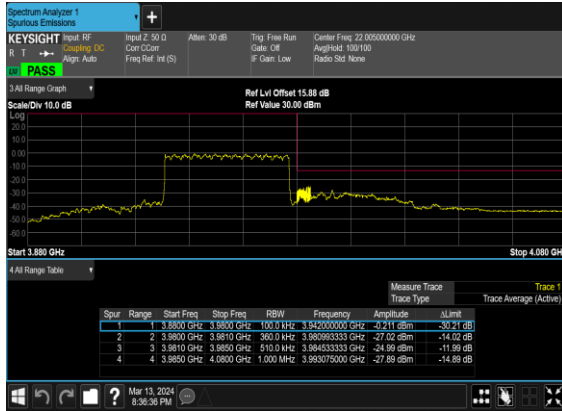
### N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



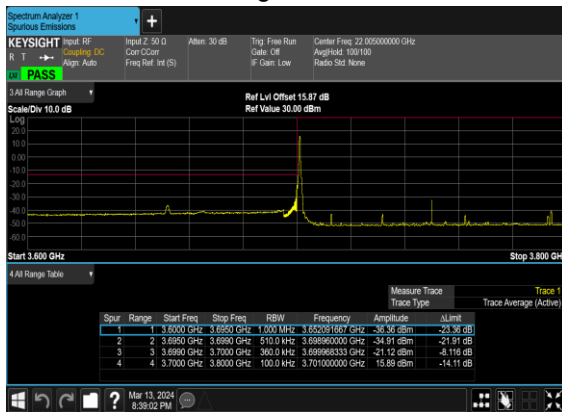
### N77(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



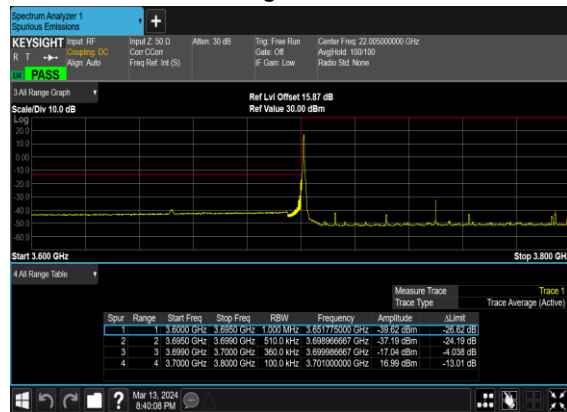
### N77(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



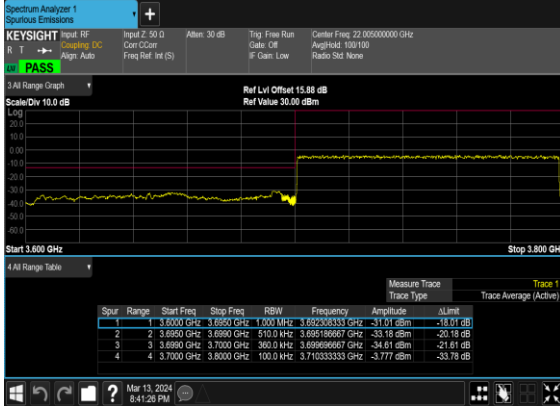
### N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



### N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



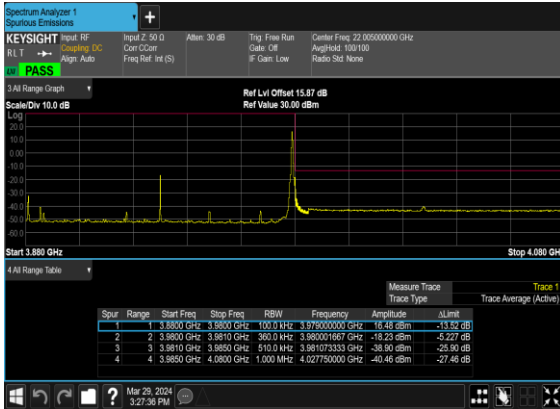
N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



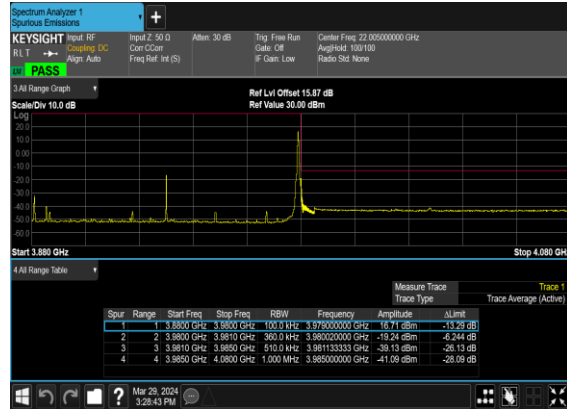
N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



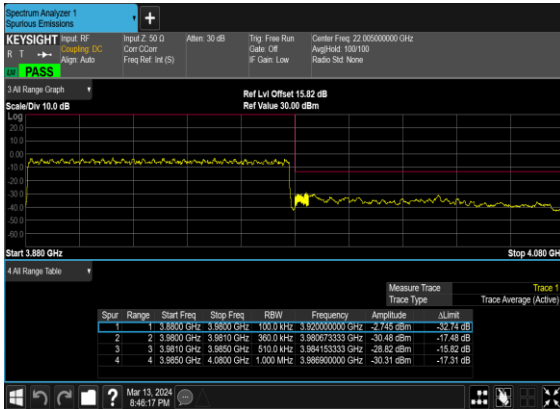
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



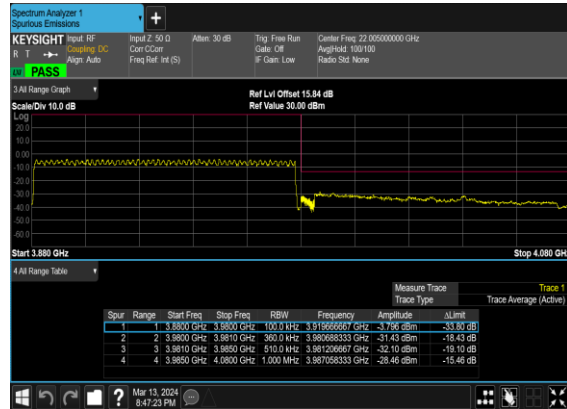
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



# FR1 N78(ANT2)

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

## Transmitter Conducted Output Power And EIRP, (G<sub>T</sub> - L<sub>C</sub>)=-1.0dB

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 QPSK	1@1	20.91	19.91	0.0979
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	20.18	19.18	0.0828
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	23.51	22.51	0.1782
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.63	21.63	0.1455
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	23.32	22.32	0.1706
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	22.34	21.34	0.1361
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	21.02	20.02	0.1005
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	20.29	19.29	0.0849
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	23.54	22.54	0.1795
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.69	21.69	0.1476
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@1	23.43	22.43	0.1750
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@1	22.58	21.58	0.1439
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	21.05	20.05	0.1012
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	20.31	19.31	0.0853
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	23.54	22.54	0.1795
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.7	21.7	0.1479
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	23.4	22.4	0.1738
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	22.56	21.56	0.1432
78	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	21.1	20.1	0.1023
78	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	20.28	19.28	0.0847
78	30	25	650000	3750	DFT-s-OFDM QPSK	1@1	23.56	22.56	0.1803
78	30	25	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.69	21.69	0.1476
78	30	25	652500	3787.5	DFT-s-OFDM QPSK	1@1	23.37	22.37	0.1726
78	30	25	652500	3787.5	DFT-s-OFDM 16 QAM	1@1	22.51	21.51	0.1416
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	20.98	19.98	0.0995
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	20.21	19.21	0.0834
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	23.6	22.6	0.1820
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.74	21.74	0.1493
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	23.47	22.47	0.1766
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	22.63	21.63	0.1455
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	21.04	20.04	0.1009
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	20.27	19.27	0.0845
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	23.6	22.6	0.1820
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.77	21.77	0.1503
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	23.38	22.38	0.1730

78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	22.54	21.54	0.1426
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	20.95	19.95	0.0989
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	20.15	19.15	0.0822
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	23.41	22.41	0.1742
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	22.54	21.54	0.1426
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	23.42	22.42	0.1746
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	22.55	21.55	0.1429
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	20.89	19.89	0.0975
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	20.11	19.11	0.0815
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	22.81	21.81	0.1517
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.88	20.88	0.1225
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	23.45	22.45	0.1758
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	22.52	21.52	0.1419
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	21	20	0.1000
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	20.18	19.18	0.0828
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	22.48	21.48	0.1406
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.7	20.7	0.1175
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	23.59	22.59	0.1816
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	22.68	21.68	0.1472
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	21.12	20.12	0.1028
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	20.33	19.33	0.0857
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	22.03	21.03	0.1268
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	21.21	20.21	0.1050
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	22.97	21.97	0.1574
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	22.08	21.08	0.1282
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	21.08	20.08	0.1019
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	20.26	19.26	0.0843
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	21.57	20.57	0.1140
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	20.73	19.73	0.0940
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	22.01	21.01	0.1262
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	21.42	20.42	0.1102
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	23.62	22.62	0.1828
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	21.38	20.38	0.1091
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	23.49	22.49	0.1774
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	23.63	22.63	0.1832
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	21.19	20.19	0.1045
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	23.4	22.4	0.1738
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	22.68	21.68	0.1472
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	20.38	19.38	0.0867
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	22.49	21.49	0.1409
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	21.17	20.17	0.1040
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	18.29	17.29	0.0536
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	21	20	0.1000
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	19.23	18.23	0.0665

78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	16.21	15.21	0.0332
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	18.75	17.75	0.0596
78	30	100	650000	3750	CP-OFDM QPSK	137@68	22.08	21.08	0.1282
78	30	100	650000	3750	CP-OFDM QPSK	1@1	19.11	18.11	0.0647
78	30	100	650000	3750	CP-OFDM QPSK	1@271	21.88	20.88	0.1225



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

Test Engineer :	HuaCong Liang	Temperature :	22~25°C
		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	7582.36	-56.20	-13	-43.20	-64.51	-59.50	8.30	11.60	H
	11373.54	-50.70	-13	-37.70	-65.04	-52.22	10.48	12.00	H
	15164.72	-49.15	-13	-36.15	-67.24	-50.85	11.80	13.50	H
	7582.36	-55.54	-13	-42.54	-63.85	-58.84	8.30	11.60	V
	11373.54	-45.69	-13	-32.69	-64.11	-47.21	10.48	12.00	V
	15164.72	-48.85	-13	-35.85	-66.93	-50.55	11.80	13.50	V

EN-DC_7A_n78A / LTE 20MHz + NR 100MHz / QPSK(ANT1+2)									
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	7401.00	-52.84	-13	-39.84	-61.76	-56.14	8.30	11.60	H
	11101.50	-53.91	-13	-40.91	-68.29	-55.43	10.48	12.00	H
	14802.00	-52.74	-13	-39.74	-69.80	-54.44	11.80	13.50	H
	7401.00	-54.37	-13	-41.37	-63.26	-57.67	8.30	11.60	V
	11101.50	-51.96	-13	-38.96	-68.27	-53.48	10.48	12.00	V
	14802.00	-52.45	-13	-39.45	-69.79	-54.15	11.80	13.50	V
LTE Band7 Middle	5061.18	-61.46	-25	-36.46	-65.68	-67.02	7.14	12.70	H
	7591.77	-58.70	-25	-33.70	-66.95	-62.00	8.30	11.60	H
	10122.36	-56.27	-25	-31.27	-68.02	-57.79	10.48	12.00	H
	5061.18	-61.01	-25	-36.01	-66.44	-66.57	7.14	12.70	V
	7591.77	-58.31	-25	-33.31	-66.56	-61.61	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.