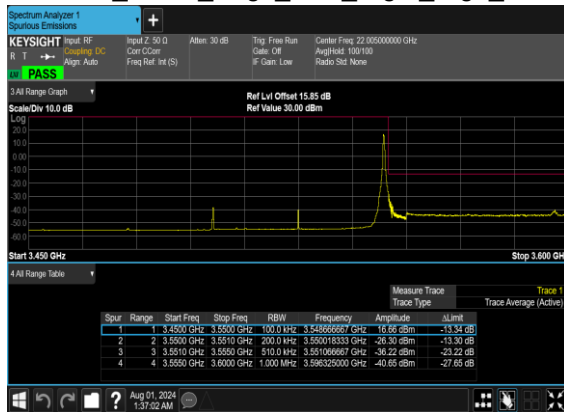
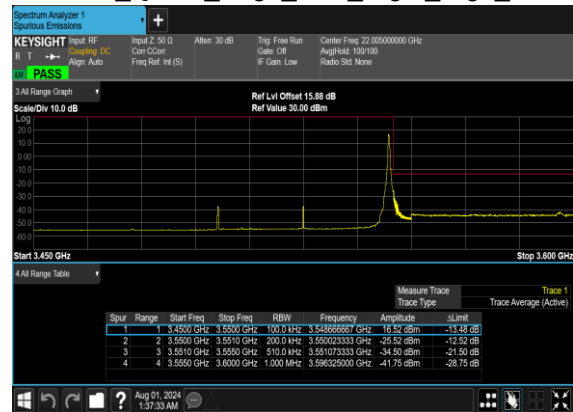
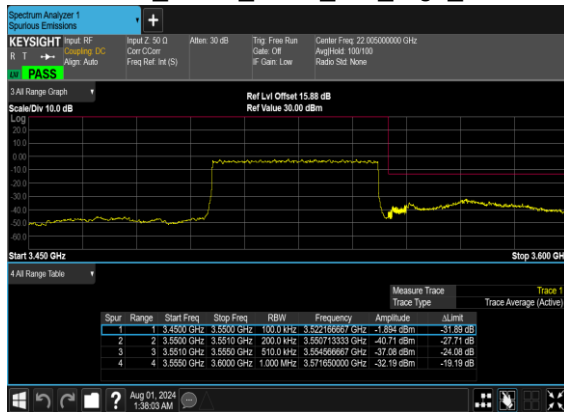
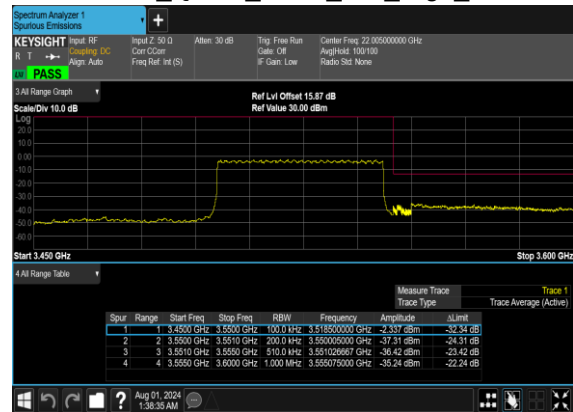
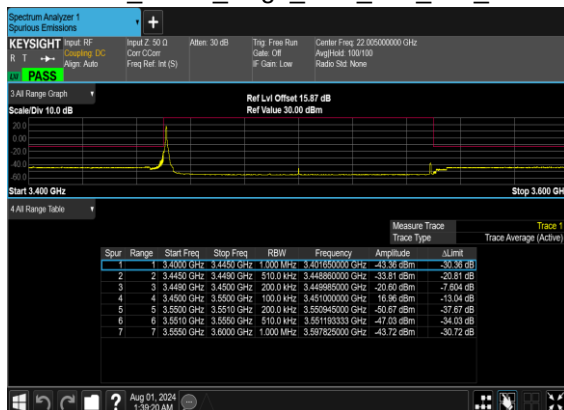
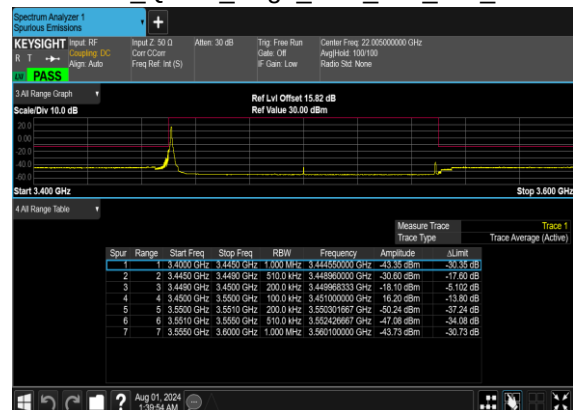
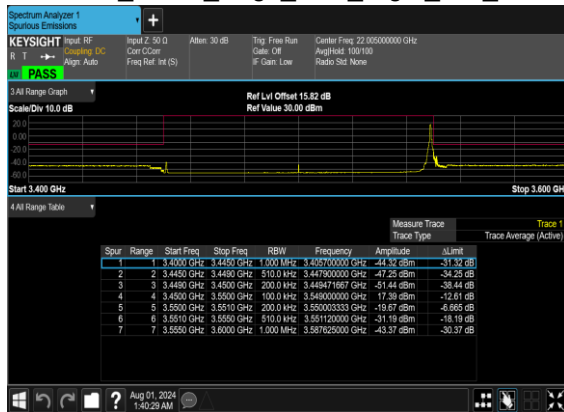
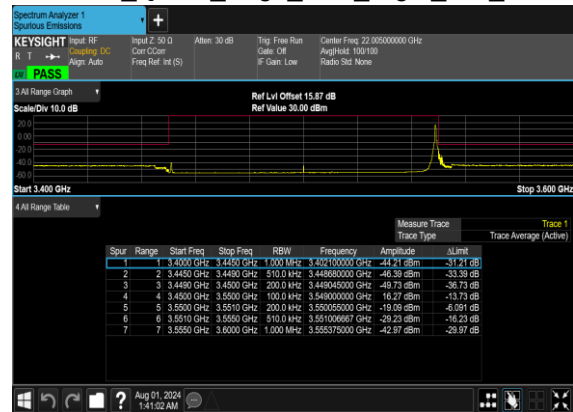
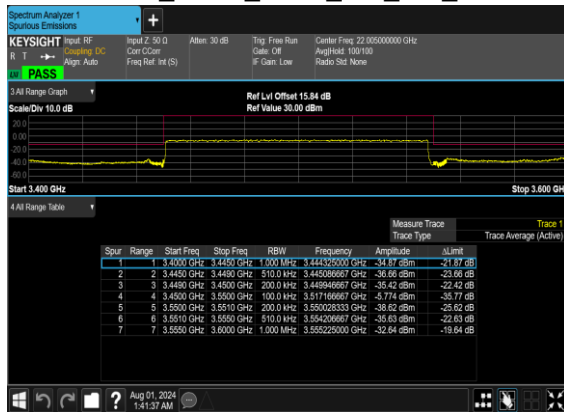
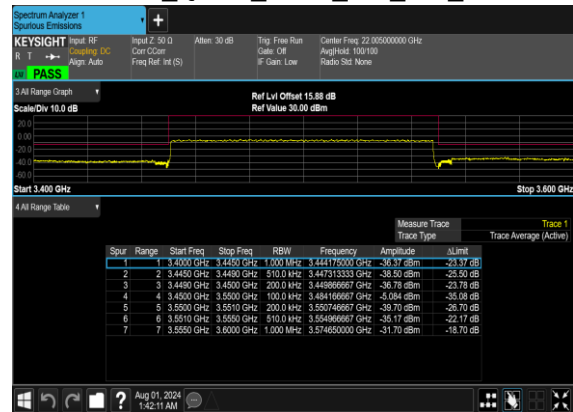


N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CHN77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CHN77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CHN77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CHN77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CHN77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CHN77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Mid_CHN77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



Software Version: 23.06.1602

FR1 N78

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	26.1	26.1	0.4074
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	25.18	25.18	0.3296
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.83	25.83	0.3828
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.89	24.89	0.3083
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	26.04	26.04	0.4018
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	25.04	25.04	0.3192
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	26.09	26.09	0.4064
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	25.14	25.14	0.3266
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.09	26.09	0.4064
78	30	15	633334	3457.5	DFT-s-OFDM 16 QAM	1@1	25.13	25.13	0.3258
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	26.08	26.08	0.4055
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	25.16	25.16	0.3281
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.14	26.14	0.4111
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.17	25.17	0.3289
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.71	25.71	0.3724
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.81	24.81	0.3027
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	26.17	26.17	0.4140
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	25.19	25.19	0.3304
78	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	26.19	26.19	0.4159
78	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	25.2	25.2	0.3311
78	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.87	25.87	0.3864
78	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.86	24.86	0.3062
78	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	26.32	26.32	0.4285
78	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	25.25	25.25	0.3350
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.27	26.27	0.4236
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	25.34	25.34	0.3420
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.8	25.8	0.3802
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.83	24.83	0.3041
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	26.23	26.23	0.4198
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	25.29	25.29	0.3381
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.08	26.08	0.4055
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.99	24.99	0.3155
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.76	25.76	0.3767



78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.75	24.75	0.2985
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	26.06	26.06	0.4036
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	25.07	25.07	0.3214
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	26.26	26.26	0.4227
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	25.26	25.26	0.3357
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.11	26.11	0.4083
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.14	25.14	0.3266
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	26.13	26.13	0.4102
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	25.19	25.19	0.3304
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	26.16	26.16	0.4130
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	25.18	25.18	0.3296
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.07	26.07	0.4046
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.06	25.06	0.3206
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.86	25.86	0.3855
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.78	24.78	0.3006
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	26.25	26.25	0.4217
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	25.26	25.26	0.3357
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.33	26.33	0.4295
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.39	25.39	0.3459
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	26.16	26.16	0.4130
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	25.08	25.08	0.3221
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	26.31	26.31	0.4276
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	25.17	25.17	0.3289
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.41	26.41	0.4375
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.42	25.42	0.3483
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	26.39	26.39	0.4355
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	25.39	25.39	0.3459
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	26.35	26.35	0.4315
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	25.29	25.29	0.3381
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.38	26.38	0.4345
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.41	25.41	0.3475
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	26.57	26.57	0.4539
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	25.62	25.62	0.3648
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.48	25.48	0.3532
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.07	26.07	0.4046
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.4	25.4	0.3467
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.88	25.88	0.3873
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.59	26.59	0.4560
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.88	25.88	0.3873
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.86	24.86	0.3062



78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.57	25.57	0.3606
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	24.86	24.86	0.3062
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.44	23.44	0.2208
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24.02	24.02	0.2523
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	23.34	23.34	0.2158
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.48	21.48	0.1406
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.81	21.81	0.1517
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	21.23	21.23	0.1327
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.3	24.3	0.2692
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	24.99	24.99	0.3155
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	24.37	24.37	0.2735

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jia Kuang	Temperature :	22~25°C
		Relative Humidity :	48~52%

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

n77 SA / NR 100MHz / QPSK(ANT6)									
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	6902.42	-54.88	-13	-41.88	-81.08	-58.18	8.30	11.60	H
	10353.63	-50.88	-13	-37.88	-82.10	-52.40	10.48	12.00	H
	13804.84	-49.98	-13	-36.98	-82.11	-51.68	11.80	13.50	H
	6902.42	-53.74	-13	-40.74	-81.22	-57.04	8.30	11.60	V
	10353.63	-49.06	-13	-36.06	-82.08	-50.58	10.48	12.00	V
	13804.84	-51.49	-13	-38.49	-82.43	-53.19	11.80	13.50	V

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

EN-DC_30A_n77A / LTE 10MHz + NR 100MHz / QPSK(5+6)									
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 Middle	6902.42	-57.38	-13	-44.38	-64.84	-60.68	8.30	11.60	H
	10353.63	-55.59	-13	-42.59	-67.61	-57.11	10.48	12.00	H
	13804.84	-54.20	-13	-41.20	-70.05	-55.90	11.80	13.50	H
	6902.42	-56.75	-13	-43.75	-65.49	-60.05	8.30	11.60	V
	10353.63	-54.36	-13	-41.36	-68.18	-55.88	10.48	12.00	V
	13804.84	-55.16	-13	-42.16	-69.82	-56.86	11.80	13.50	V
LTE Band30 Middle	4611.00	-60.20	-40	-20.20	-65.15	-66.45	6.45	12.70	H
	6916.50	-57.06	-40	-17.06	-64.56	-60.46	8.40	11.80	H
	9222.00	-59.84	-40	-19.84	-69.36	-62.19	9.65	12.00	H
	4611.00	-59.94	-40	-19.94	-65.02	-66.19	6.45	12.70	V
	6916.50	-56.74	-40	-16.74	-65.34	-60.14	8.40	11.80	V
	9222.00	-57.55	-40	-17.55	-69.3	-59.90	9.65	12.00	V

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