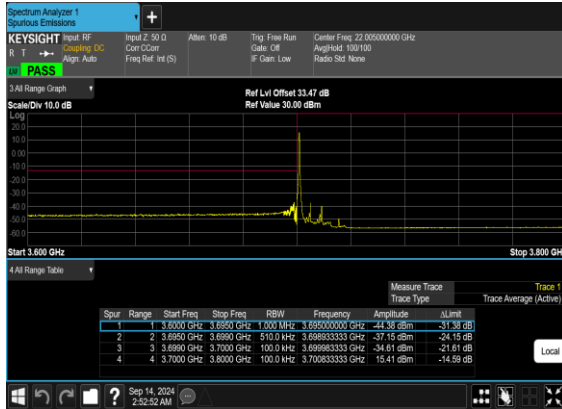
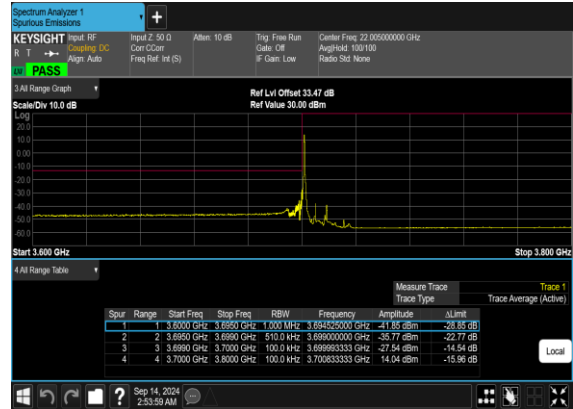




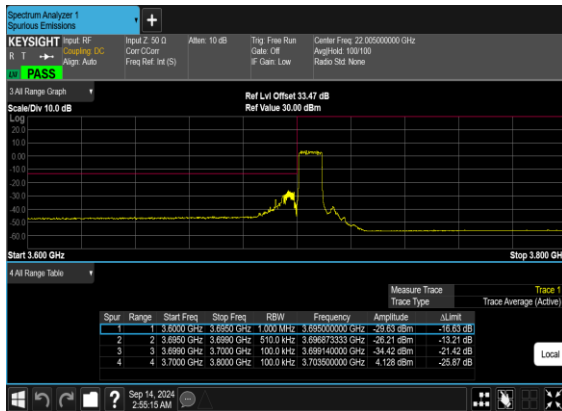
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



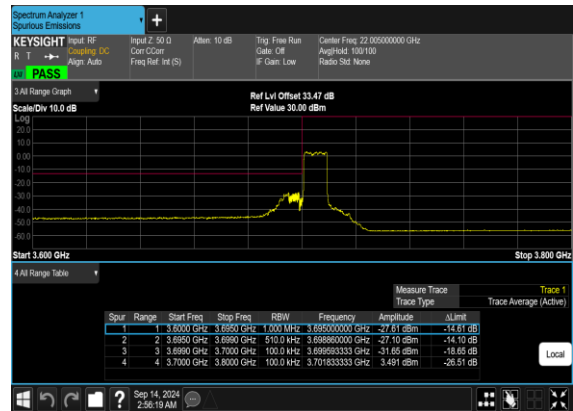
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

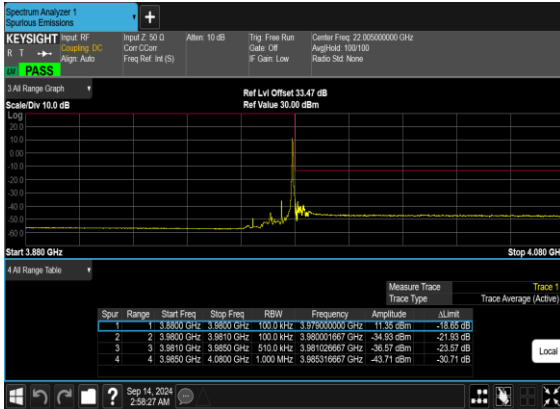


N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

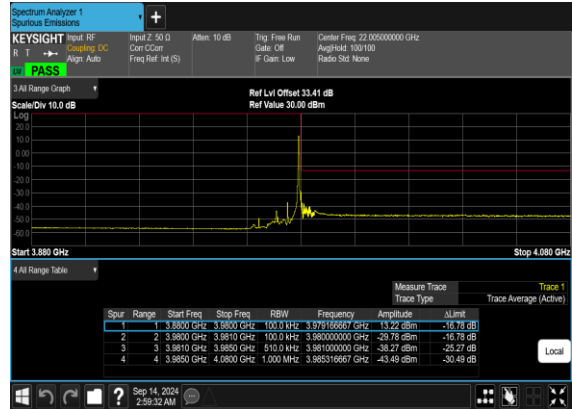




N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

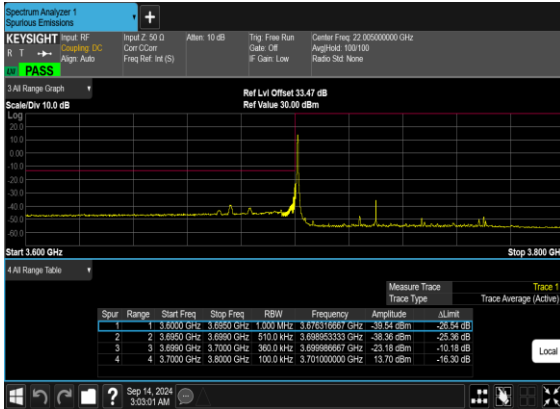


N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

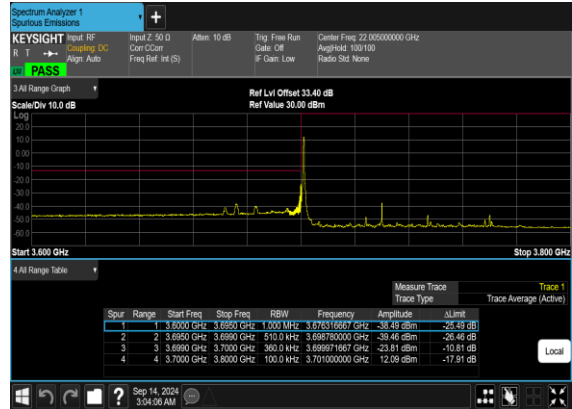




N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(60M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

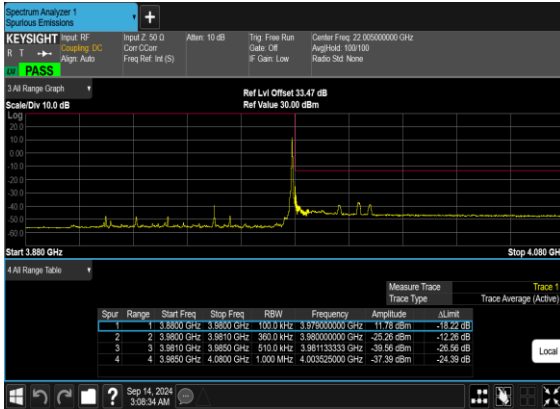


N77(60M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

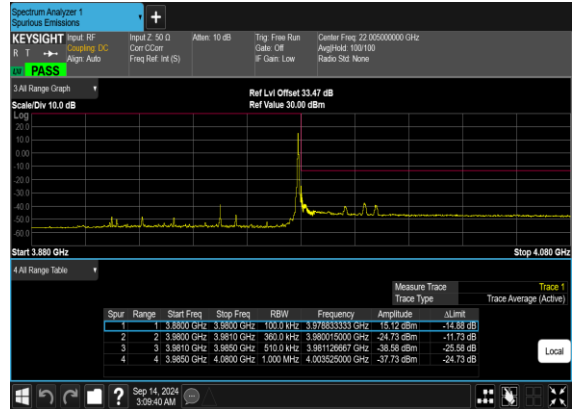




N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



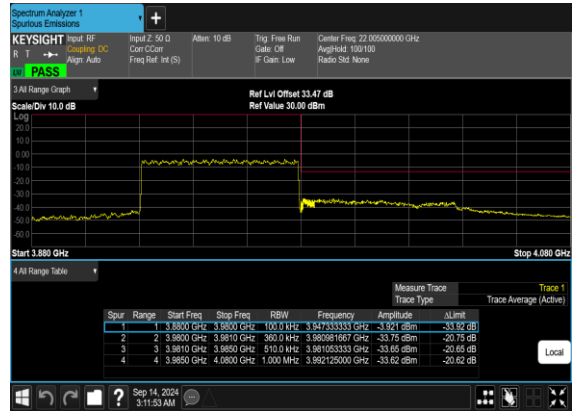
N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(60M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

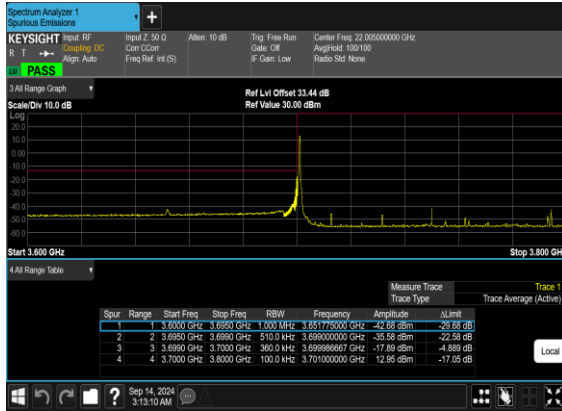


N77(60M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

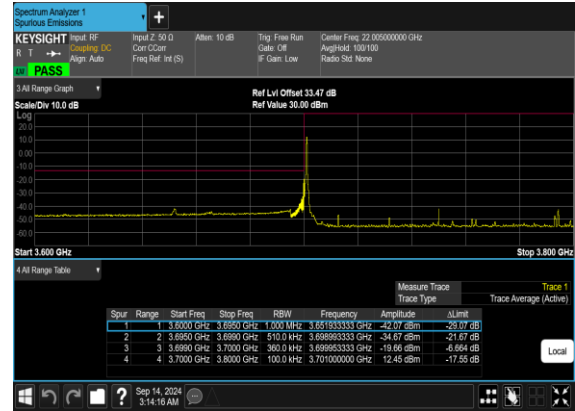




N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



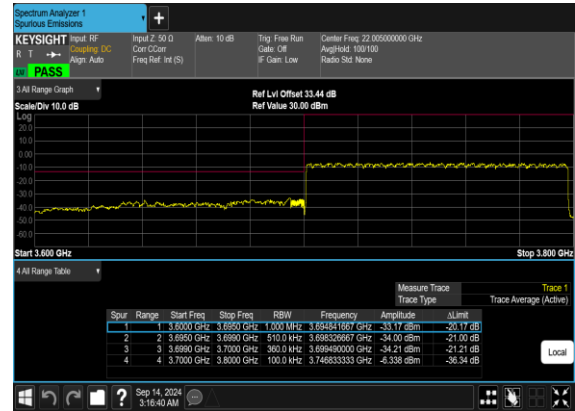
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

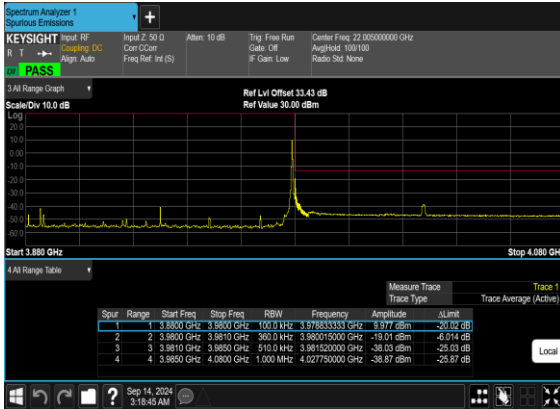


N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

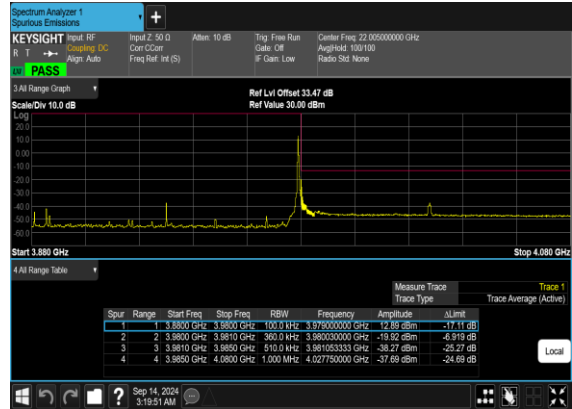




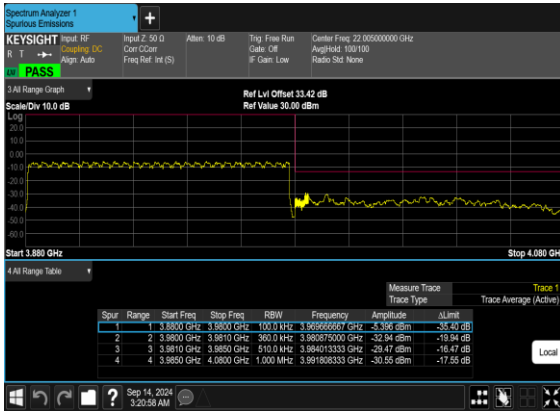
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



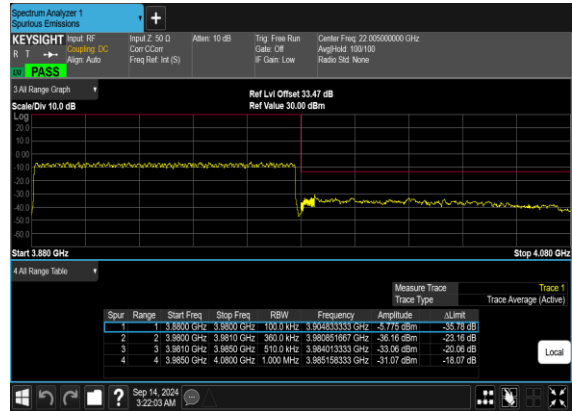
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N78

Transmitter Conducted Output Power And EIRP, (G_T - L_c)=-6.3 dB

NR Band	SCS	BandWidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	27.69	21.39	0.1377
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	27.91	21.61	0.1449
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	27.24	20.94	0.1242
78	30	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.85	21.55	0.1429
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	27.82	21.52	0.1419
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.18	20.88	0.1225
78	30	10	653000	3795	DFT-s-OFDM PI/2 BPSK	1@1	27.43	21.13	0.1297
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	27.36	21.06	0.1276
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	27.39	21.09	0.1285
78	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	27.64	21.34	0.1361
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	27.52	21.22	0.1324
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	27.31	21.01	0.1262
78	30	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.84	21.54	0.1426
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	27.41	21.11	0.1291
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.16	20.86	0.1219
78	30	15	652832	3792.48	DFT-s-OFDM PI/2 BPSK	1@1	27.36	21.06	0.1276
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@1	27.26	20.96	0.1247
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@1	27.58	21.28	0.1343
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	27.64	21.34	0.1361
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	27.41	21.11	0.1291
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	27.26	20.96	0.1247
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.82	21.52	0.1419
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	27.84	21.54	0.1426
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.09	20.79	0.1199
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@1	27.41	21.11	0.1291
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	27.36	21.06	0.1276
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	27.49	21.19	0.1315
78	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@1	27.63	21.33	0.1358
78	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	27.42	21.12	0.1294
78	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	27.44	21.14	0.1300
78	30	25	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.80	21.50	0.1413
78	30	25	650000	3750	DFT-s-OFDM QPSK	1@1	27.65	21.35	0.1365
78	30	25	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.14	20.84	0.1213
78	30	25	652500	3787.5	DFT-s-OFDM PI/2 BPSK	1@1	27.41	21.11	0.1291
78	30	25	652500	3787.5	DFT-s-OFDM QPSK	1@1	27.65	21.35	0.1365



78	30	25	652500	3787.5	DFT-s-OFDM 16 QAM	1@1	27.34	21.04	0.1271
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	27.64	21.34	0.1361
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	27.25	20.95	0.1245
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	27.36	21.06	0.1276
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.87	21.57	0.1435
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	27.97	21.67	0.1469
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.19	20.89	0.1227
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	1@1	27.41	21.11	0.1291
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	27.65	21.35	0.1365
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	27.47	21.17	0.1309
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	27.68	21.38	0.1374
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	27.55	21.25	0.1334
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	27.34	21.04	0.1271
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.89	21.59	0.1442
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	27.85	21.55	0.1429
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.19	20.89	0.1227
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@1	27.64	21.34	0.1361
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	27.91	21.61	0.1449
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	27.19	20.89	0.1227
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	27.95	21.65	0.1462
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	27.34	21.04	0.1271
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	27.01	20.71	0.1178
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.93	21.63	0.1455
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	27.85	21.55	0.1429
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.11	20.81	0.1205
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@1	27.90	21.60	0.1445
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	27.68	21.38	0.1374
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	27.09	20.79	0.1199
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	27.63	21.33	0.1358
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	27.41	21.11	0.1291
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	27.25	20.95	0.1245
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.93	21.63	0.1455
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	27.64	21.34	0.1361
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.16	20.86	0.1219
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	1@1	27.74	21.44	0.1393
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	27.82	21.52	0.1419
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	27.06	20.76	0.1191
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	27.92	21.62	0.1452
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	27.89	21.59	0.1442
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	27.08	20.78	0.1197
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.41	21.11	0.1291
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	27.36	21.06	0.1276



78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.40	21.10	0.1288
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	1@1	27.69	21.39	0.1377
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	27.75	21.45	0.1396
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	26.91	20.61	0.1151
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	27.71	21.41	0.1384
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	27.25	20.95	0.1245
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	27.38	21.08	0.1282
78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.36	21.06	0.1276
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	27.63	21.33	0.1358
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.32	21.02	0.1265
78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	1@1	27.96	21.66	0.1466
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	27.41	21.11	0.1291
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	27.28	20.98	0.1253
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	27.95	21.65	0.1462
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	27.91	21.61	0.1449
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	27.19	20.89	0.1227
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.36	21.06	0.1276
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	27.36	21.06	0.1276
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.31	21.01	0.1262
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	1@1	27.26	20.96	0.1247
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	27.63	21.33	0.1358
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	27.40	21.10	0.1288
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	27.25	20.95	0.1245
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	27.55	21.25	0.1334
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	27.34	21.04	0.1271
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	27.46	21.16	0.1306
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	27.33	21.03	0.1268
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	27.52	21.22	0.1324
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	27.21	20.91	0.1233
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	27.37	21.07	0.1279
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	27.80	21.50	0.1413
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	25.77	19.47	0.0885
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	25.65	19.35	0.0861
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	26.07	19.77	0.0948
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	23.80	17.50	0.0562
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	23.69	17.39	0.0548
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	24.07	17.77	0.0598
78	30	100	650000	3750	CP-OFDM QPSK	137@68	26.61	20.31	0.1074
78	30	100	650000	3750	CP-OFDM QPSK	1@1	26.58	20.28	0.1067
78	30	100	650000	3750	CP-OFDM QPSK	1@271	27.08	20.78	0.1197



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Bruce	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 / ANT9(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)
NR n77 Lowest	7407	-55.12	-13	-42.12	-65.33	3.03	13.24	H
	11103	-58.97	-13	-45.97	-68.42	3.56	13.01	H
	14810	-56.80	-13	-43.80	-66.32	3.92	13.44	H
	7407	-57.91	-13	-44.91	-68.12	3.03	13.24	V
	11103	-60.14	-13	-47.14	-69.59	3.56	13.01	V
	14810	-59.89	-13	-46.89	-69.41	3.92	13.44	V
NR n77 Middle	7583	-49.10	-13	-36.10	-59.31	3.03	13.24	H
	11389	-62.23	-13	-49.23	-71.68	3.56	13.01	H
	15184	-60.06	-13	-47.06	-69.58	3.92	13.44	H
	7583	-50.88	-13	-37.88	-61.09	3.03	13.24	V
	11389	-61.71	-13	-48.71	-71.16	3.56	13.01	V
	15184	-59.94	-13	-46.94	-69.46	3.92	13.44	V
NR n77 Highest	7759	-48.92	-13	-35.92	-59.13	3.03	13.24	H
	11642	-55.47	-13	-42.47	-64.92	3.56	13.01	H
	15536	-58.86	-13	-45.86	-68.38	3.92	13.44	H
	7759	-52.39	-13	-39.39	-62.60	3.03	13.24	V
	11642	-54.19	-13	-41.19	-63.64	3.56	13.01	V
	15536	-58.71	-13	-45.71	-68.23	3.92	13.44	V

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



EN DC_13A_n77A / LTE 20MHz + NR 100MHz / QPSK(ANT0+9)								
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)
NR n77 Lowest	7407	-56.64	-13	-43.64	-66.85	3.03	13.24	H
	11114	-60.37	-13	-47.37	-69.82	3.56	13.01	H
	14821	-58.29	-13	-45.29	-67.81	3.92	13.44	H
	7407	-57.86	-13	-44.86	-68.07	3.03	13.24	V
	11114	-59.61	-13	-46.61	-69.06	3.56	13.01	V
	14821	-58.30	-13	-45.30	-67.82	3.92	13.44	V
NR n77 Middle	7583	-48.64	-13	-35.64	-58.85	3.03	13.24	H
	11378	-59.34	-13	-46.34	-68.79	3.56	13.01	H
	15184	-58.41	-13	-45.41	-67.93	3.92	13.44	H
	7583	-48.39	-13	-35.39	-58.60	3.03	13.24	V
	11378	-58.71	-13	-45.71	-68.16	3.56	13.01	V
	15184	-58.70	-13	-45.70	-68.22	3.92	13.44	V
NR n77 Highest	7759	-53.76	-13	-40.76	-63.97	3.03	13.24	H
	11642	-55.42	-13	-42.42	-64.87	3.56	13.01	H
	15536	-57.79	-13	-44.79	-67.31	3.92	13.44	H
	7759	-55.46	-13	-42.46	-65.67	3.03	13.24	V
	11642	-54.40	-13	-41.40	-63.85	3.56	13.01	V
	15536	-57.81	-13	-44.81	-67.33	3.92	13.44	V

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