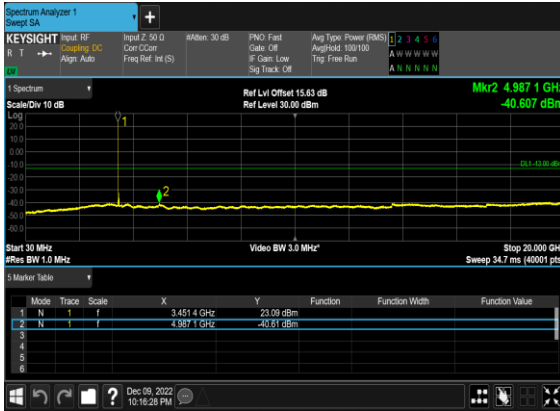
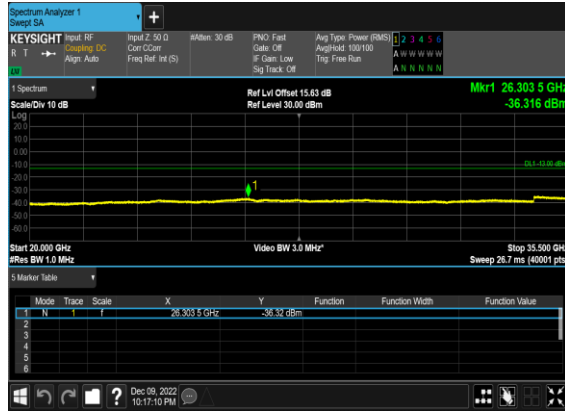


N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



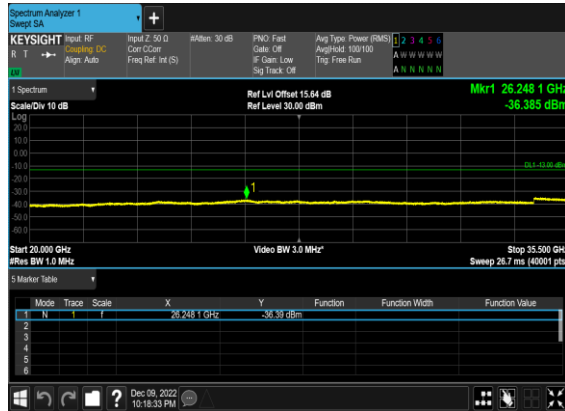
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



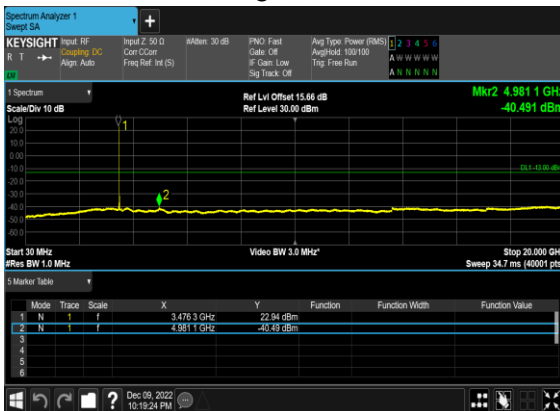
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



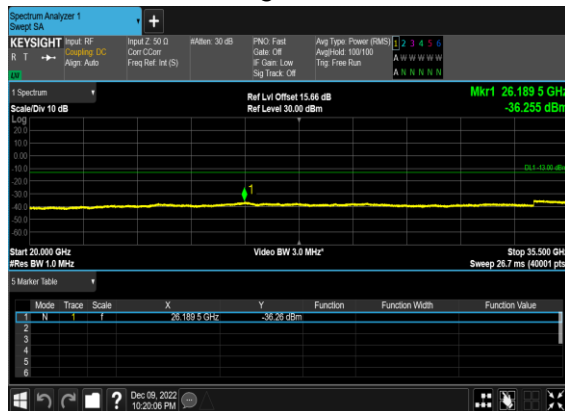
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



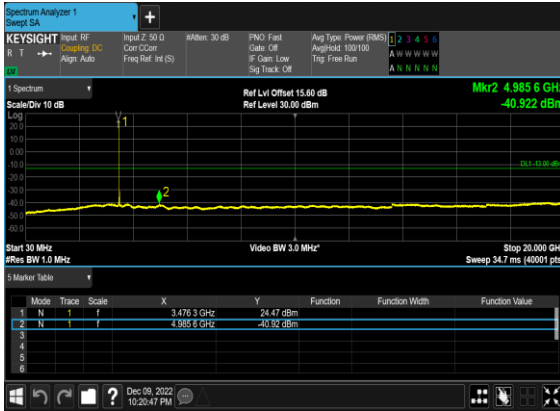
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



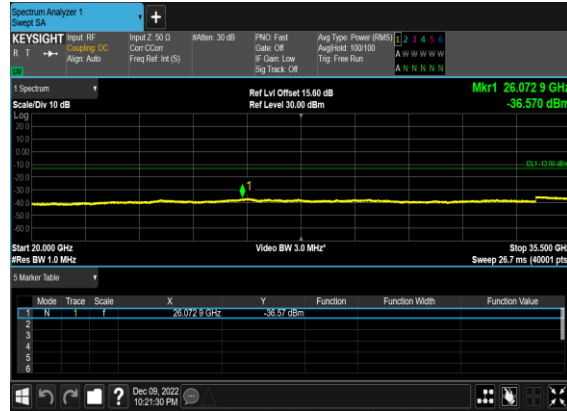
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



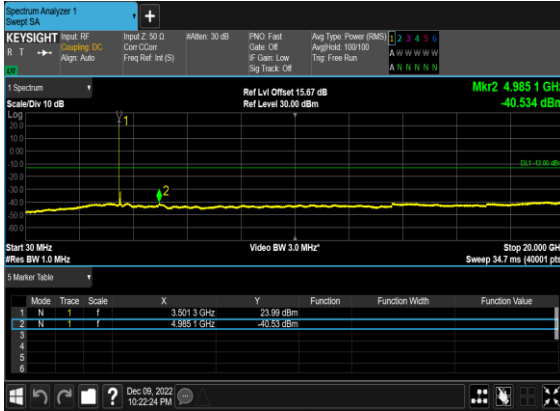
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



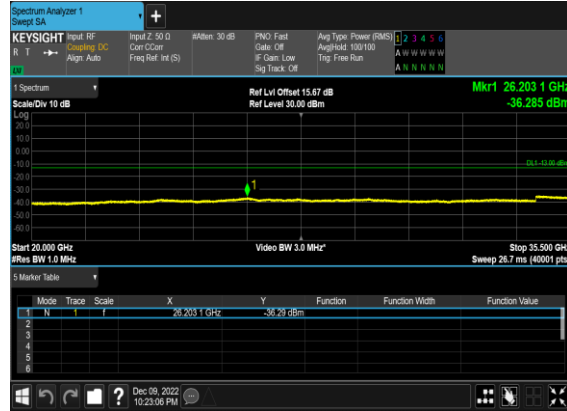
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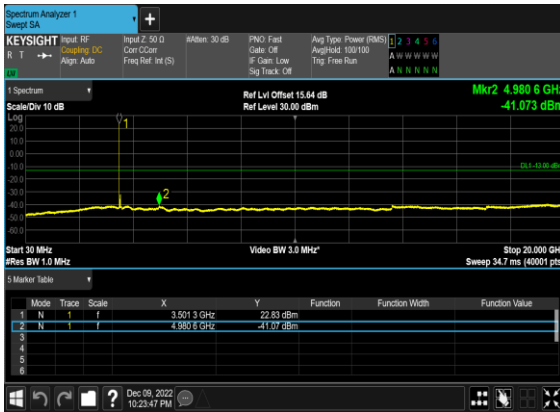
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



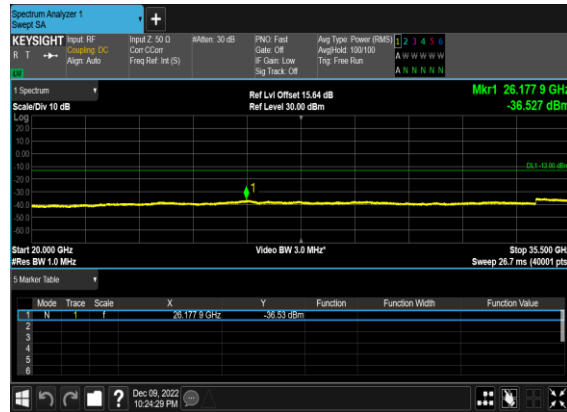
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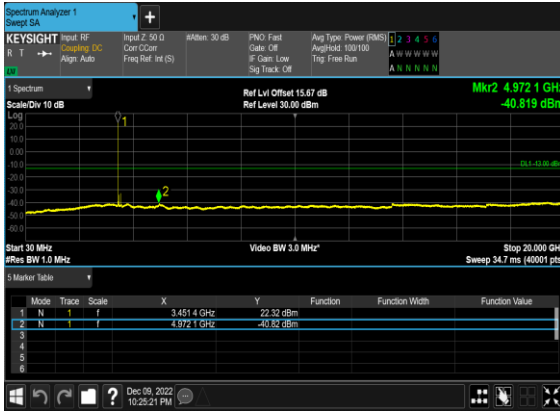
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



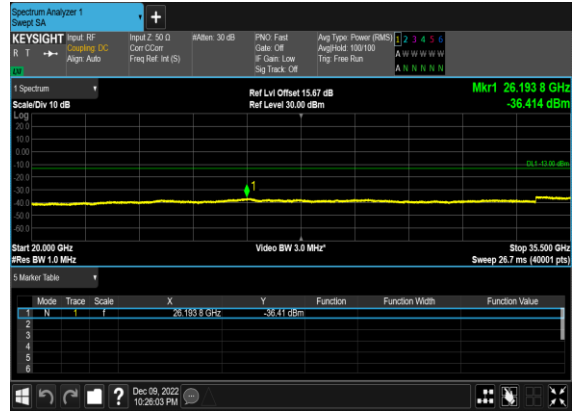
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



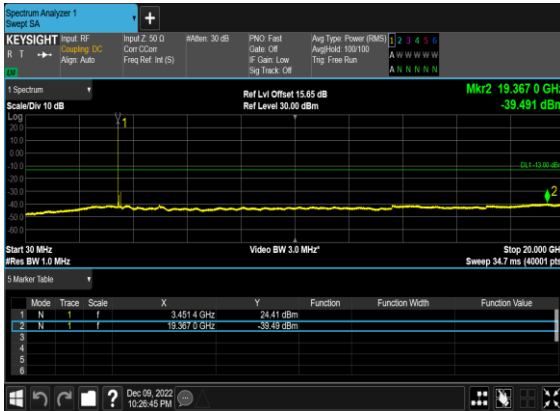
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



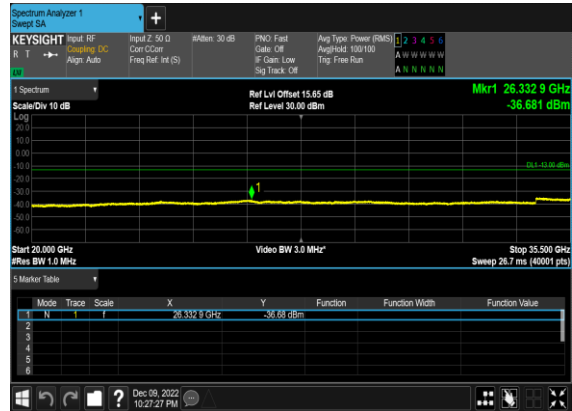
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



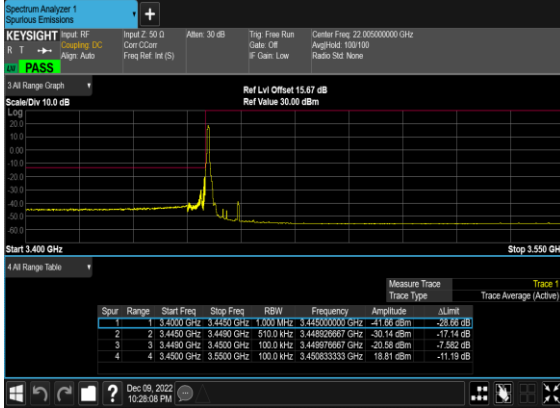
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



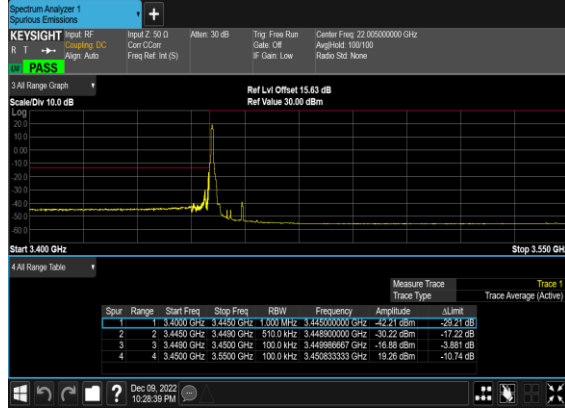
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@23	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@23	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@132	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@132	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	PASS

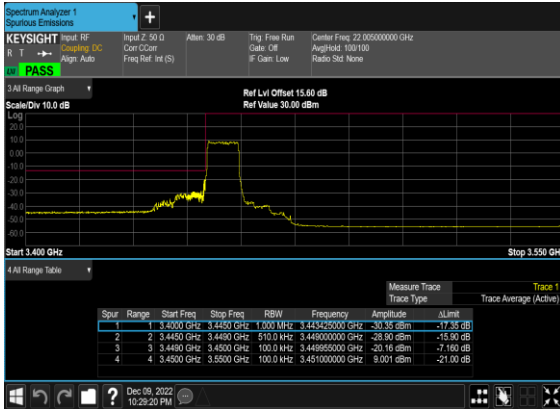
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



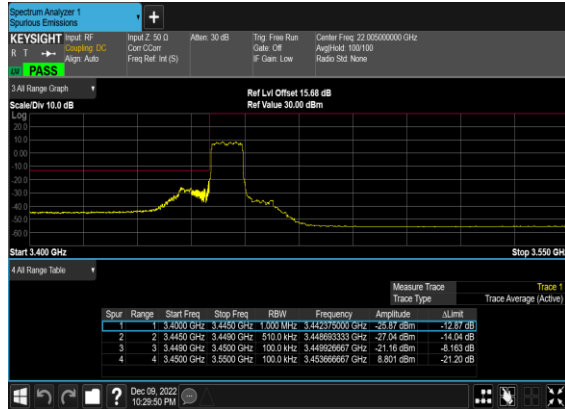
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



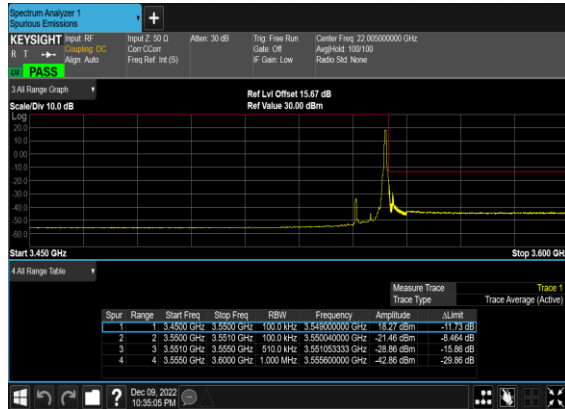
N77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



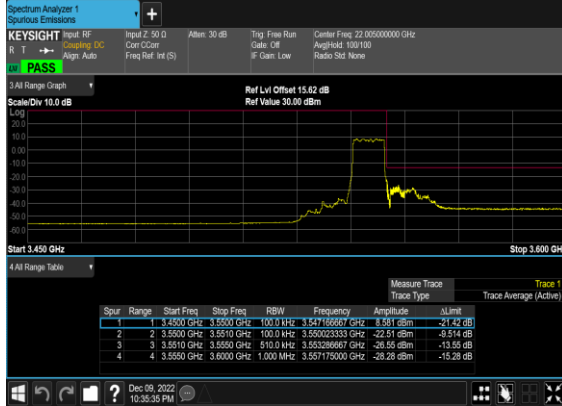
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



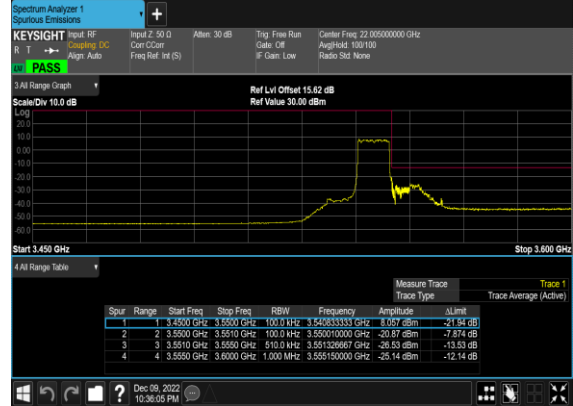
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



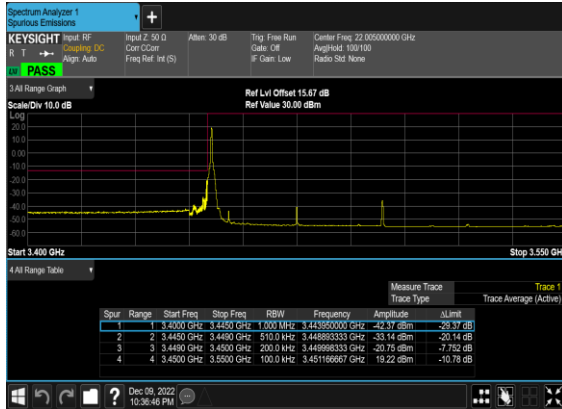
N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



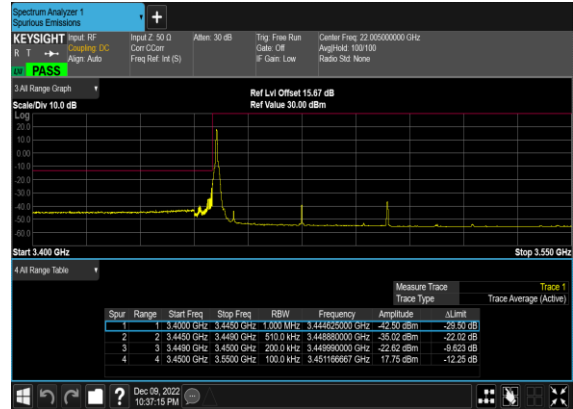
N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



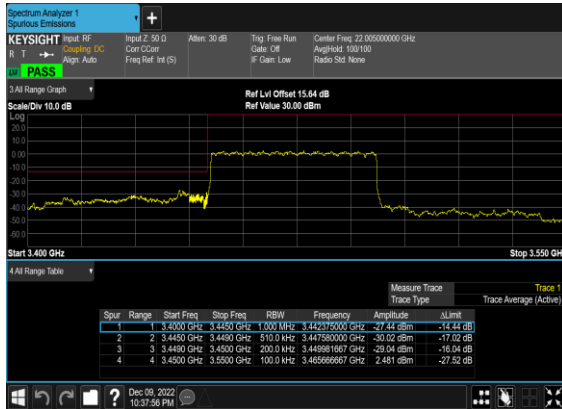
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



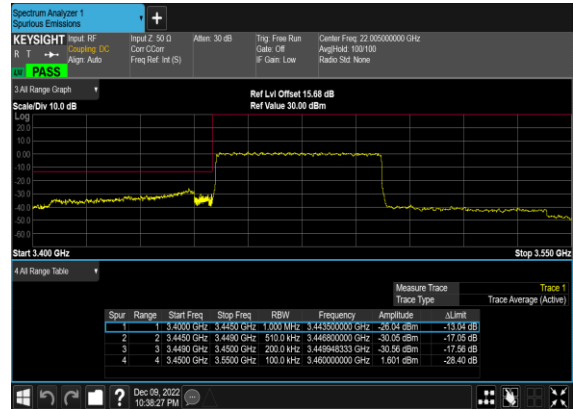
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



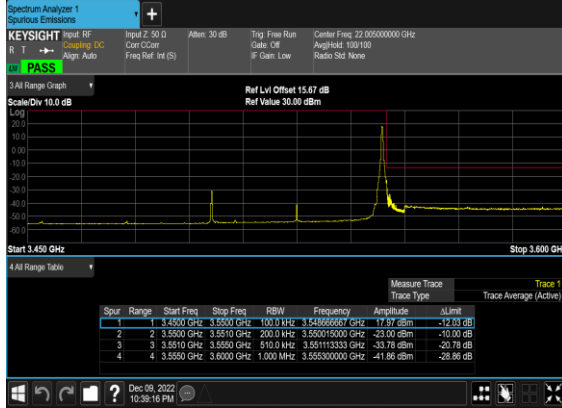
N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



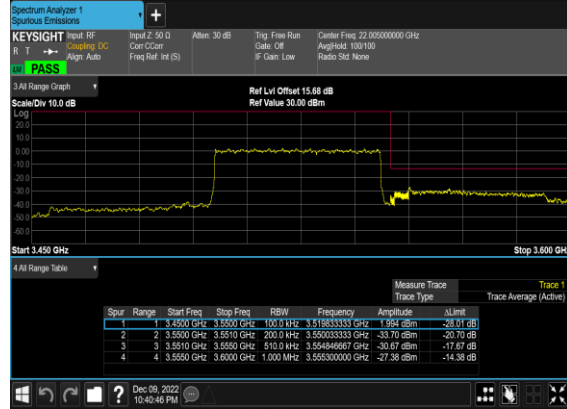
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



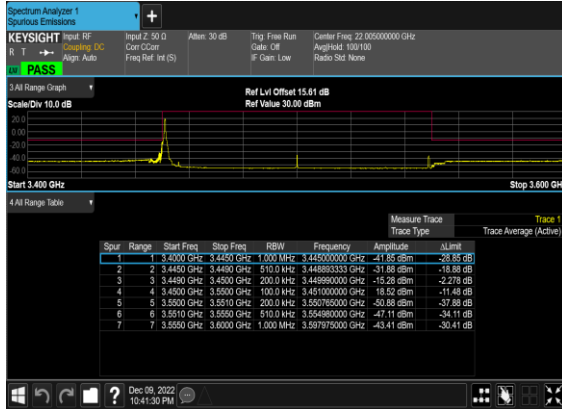
N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



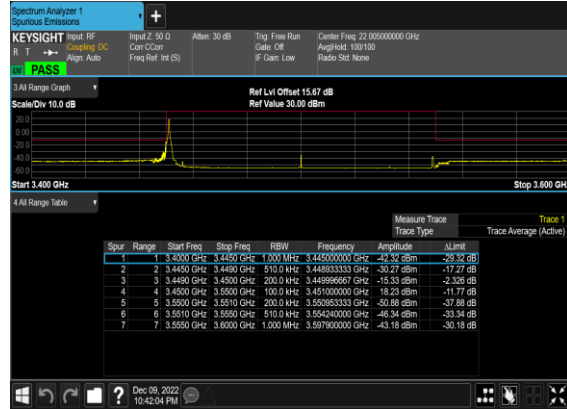
N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



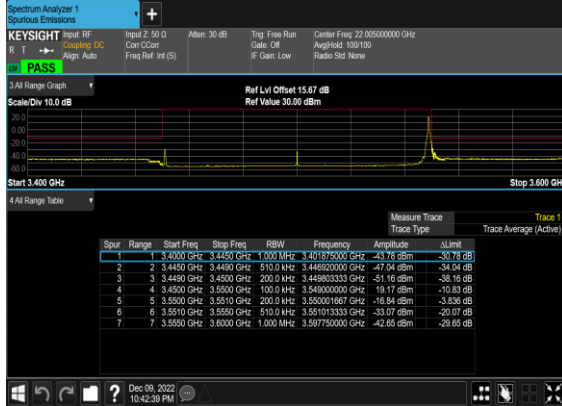
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



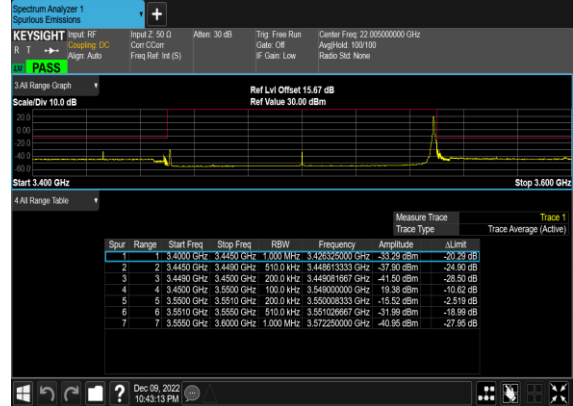
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



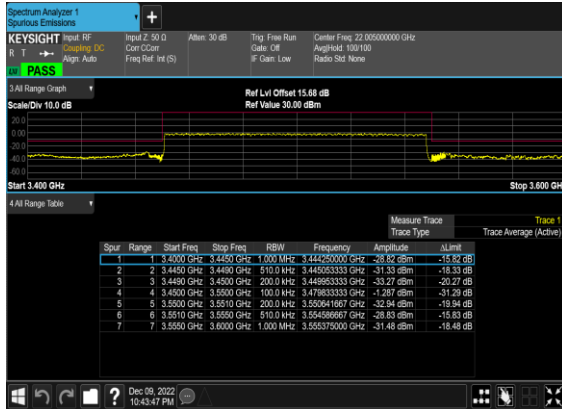
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



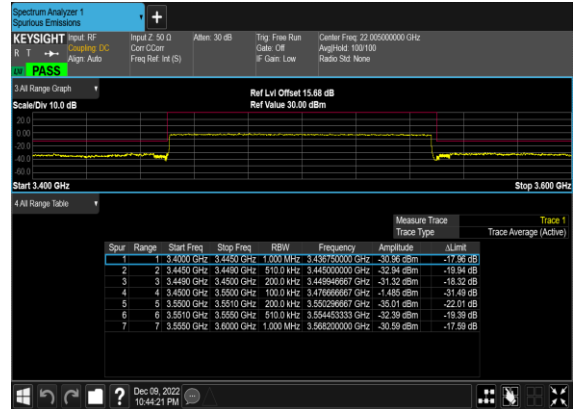
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



FR1 N78

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-4dB

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	23.22	19.22	0.0836
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	23.31	19.31	0.0853
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.28	19.28	0.0847
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.26	19.26	0.0843
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	22.99	18.99	0.0793
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	23.06	19.06	0.0805
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	23.35	19.35	0.0861
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	23.49	19.49	0.0889
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.13	19.13	0.0818
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.22	19.22	0.0836
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	23.17	19.17	0.0826
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	23.26	19.26	0.0843
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	23.36	19.36	0.0863
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	23.48	19.48	0.0887
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.46	19.46	0.0883
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.54	19.54	0.0899
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@1	23.24	19.24	0.0839
78	30	20	636000	3540.0	DFT-s-OFDM 16 QAM	1@1	23.22	19.22	0.0836
78	30	30	631000	3465.0	DFT-s-OFDM QPSK	1@1	23.51	19.51	0.0893

78	30	30	631000	3465.0	DFT-s-OFDM 16 QAM	1@1	23.61	19.61	0.0914
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.56	19.56	0.0904
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.43	19.43	0.0877
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	23.32	19.32	0.0855
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	23.37	19.37	0.0865
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	23.55	19.55	0.0902
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	23.49	19.49	0.0889
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.58	19.58	0.0908
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.55	19.55	0.0902
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	23.5	19.5	0.0891
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	23.59	19.59	0.0910
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	23.29	19.29	0.0849
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	23.31	19.31	0.0853
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.33	19.33	0.0857
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.27	19.27	0.0845
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@1	23.23	19.23	0.0838
78	30	50	635000	3525.0	DFT-s-OFDM 16 QAM	1@1	23.31	19.31	0.0853
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@1	23.34	19.34	0.0859
78	30	60	632000	3480.0	DFT-s-OFDM 16 QAM	1@1	23.42	19.42	0.0875
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.42	19.42	0.0875
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.44	19.44	0.0879
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	23.29	19.29	0.0849
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	23.36	19.36	0.0863
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	23.18	19.18	0.0828

78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	23.22	19.22	0.0836
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.29	19.29	0.0849
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.33	19.33	0.0857
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	23.2	19.2	0.0832
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	23.27	19.27	0.0845
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	23.12	19.12	0.0817
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	23.3	19.3	0.0851
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.26	19.26	0.0843
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.27	19.27	0.0845
78	30	80	634000	3510.0	DFT-s-OFDM QPSK	1@1	23.22	19.22	0.0836
78	30	80	634000	3510.0	DFT-s-OFDM 16 QAM	1@1	23.36	19.36	0.0863
78	30	90	633000	3495.0	DFT-s-OFDM QPSK	1@1	23.13	19.13	0.0818
78	30	90	633000	3495.0	DFT-s-OFDM 16 QAM	1@1	23.24	19.24	0.0839
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.16	19.16	0.0824
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.28	19.28	0.0847
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	23.19	19.19	0.0830
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	23.33	19.33	0.0857
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	23.14	19.14	0.0820
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.28	19.28	0.0847
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	22.74	18.74	0.0748
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	23.16	19.16	0.0824
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.67	19.67	0.0927
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	22.71	18.71	0.0743
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	23.19	19.19	0.0830

78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.33	19.33	0.0857
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	22.87	18.87	0.0771
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	22.23	18.23	0.0665
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.34	18.34	0.0682
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	21.86	17.86	0.0611
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	20.24	16.24	0.0421
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.19	16.19	0.0416
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	19.7	15.7	0.0372
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	23.15	19.15	0.0822
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.21	19.21	0.0834
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	22.79	18.79	0.0757

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	6902.40	-36.18	-13	-23.18	-36.07	-39.48	8.30	11.60	H
	10353.60	-57.31	-13	-44.31	-64.28	-58.83	10.48	12.00	H
	13804.80	-53.43	-13	-40.43	-65.60	-55.13	11.80	13.50	H
	6902.40	-44.19	-13	-31.19	-44.01	-47.49	8.30	11.60	V
	10353.60	-57.84	-13	-44.84	-64.61	-59.36	10.48	12.00	V
	13804.80	-53.60	-13	-40.60	-65.46	-55.30	11.80	13.50	V

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



EN-DC_13A_n77A / LTE 10MHz + NR 100MHz / QPSK(0+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)
LTE Band13 Lowest	1554.5	-70.33	-13	-57.33	-57.15	-73.56	3.98	9.36	H
	2331.75	-66.82	-13	-53.82	-56.80	-70.37	4.85	10.55	H
	3109	-66.08	-13	-53.08	-58.10	-71.01	5.50	12.58	H
	1554.5	-70.23	-13	-57.23	-57.25	-73.46	3.98	9.36	V
	2331.75	-64.88	-13	-51.88	-55.25	-68.43	4.85	10.55	V
	3109	-65.68	-13	-52.68	-58.20	-70.61	5.50	12.58	V
NR n77 Lowest	6902.00	-40.79	-13	-27.79	-40.68	-44.09	8.30	11.60	H
	10353.00	-56.09	-13	-43.09	-63.06	-57.61	10.48	12.00	H
	13804.00	-52.30	-13	-39.30	-64.47	-54.00	11.80	13.50	H
	6902.00	-40.71	-13	-27.71	-40.52	-44.01	8.30	11.60	V
	10353.00	-56.59	-13	-43.59	-63.35	-58.11	10.48	12.00	V
	13804.00	-52.54	-13	-39.54	-64.40	-54.24	11.80	13.50	V
LTE Band13 Middle	1559.5	-70.34	-42.15	-28.19	-57.10	-73.59	4.00	9.40	H
	2339.25	-65.72	-13	-52.72	-55.66	-69.29	4.88	10.60	H
	3119	-66.12	-13	-53.12	-58.20	-71.05	5.52	12.60	H
	1559.5	-70.10	-42.15	-27.95	-57.07	-73.35	4.00	9.40	V
	2339.25	-65.45	-13	-52.45	-55.78	-69.02	4.88	10.60	V
	3119	-65.42	-13	-52.42	-58.01	-70.35	5.52	12.60	V
NR n77 Middle	6902.00	-38.92	-13	-25.92	-38.81	-42.22	8.30	11.60	H
	10353.00	-56.37	-13	-43.37	-63.34	-57.89	10.48	12.00	H
	13804.00	-52.27	-13	-39.27	-64.44	-53.97	11.80	13.50	H
	6902.00	-40.18	-13	-27.18	-39.99	-43.48	8.30	11.60	V
	10353.00	-56.66	-13	-43.66	-63.42	-58.18	10.48	12.00	V
	13804.00	-52.69	-13	-39.69	-64.55	-54.39	11.80	13.50	V
LTE Band13 Highest	1564.5	-70.26	-42.15	-28.11	-56.96	-73.43	4.10	9.42	H
	2346.75	-67.74	-13	-54.74	-57.64	-71.32	4.90	10.63	H
	3129	-65.96	-13	-52.96	-58.07	-70.88	5.55	12.62	H
	1564.5	-70.27	-42.15	-28.12	-57.19	-73.44	4.10	9.42	V
	2346.75	-67.36	-13	-54.36	-57.65	-70.94	4.90	10.63	V
	3129	-65.34	-13	-52.34	-57.98	-70.26	5.55	12.62	V
NR n77 Highest	6902.00	-42.20	-13	-29.20	-42.09	-45.50	8.30	11.60	H
	10353.00	-56.30	-13	-43.30	-63.27	-57.82	10.48	12.00	H
	13804.00	-52.04	-13	-39.04	-64.21	-53.74	11.80	13.50	H
	6902.00	-39.29	-13	-26.29	-39.1	-42.59	8.30	11.60	V
	10353.00	-56.06	-13	-43.06	-62.82	-57.58	10.48	12.00	V
	13804.00	-52.44	-13	-39.44	-64.30	-54.14	11.80	13.50	V

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