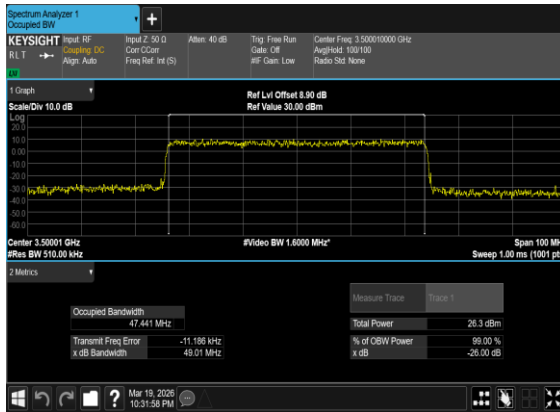
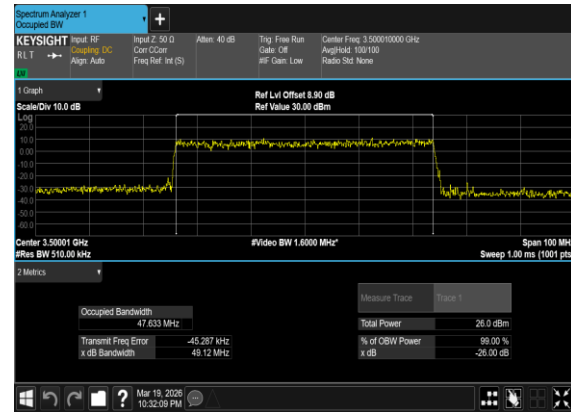




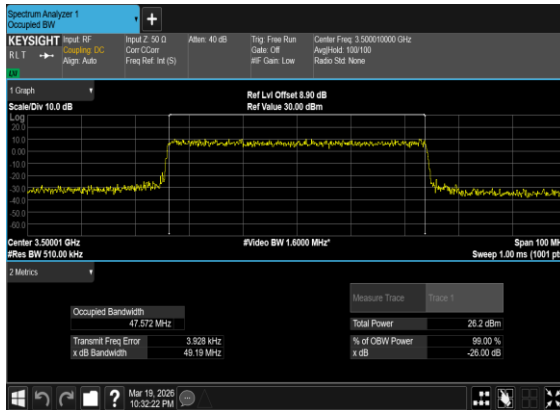
N78(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



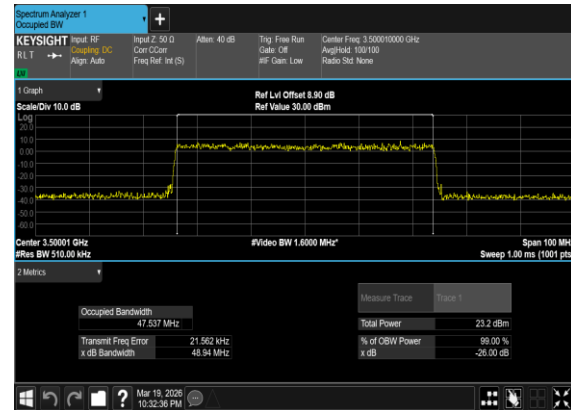
N78(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

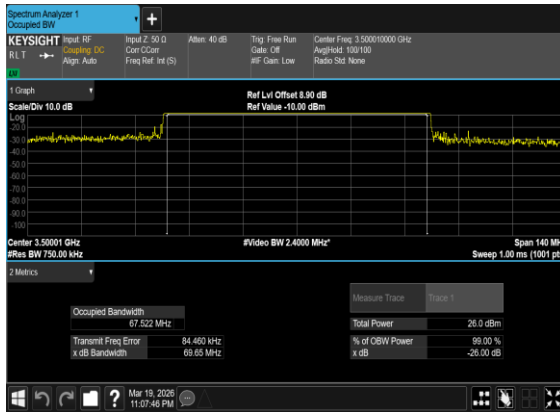


N78(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

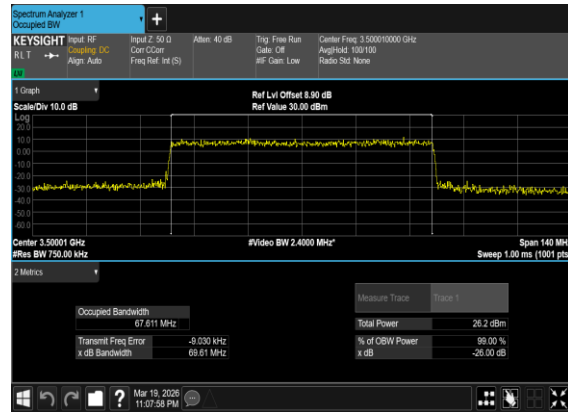




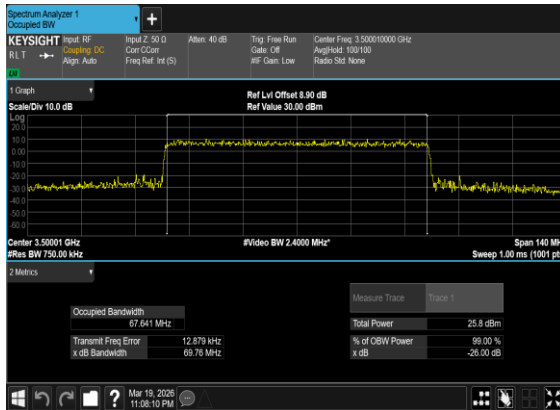
N78(70M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



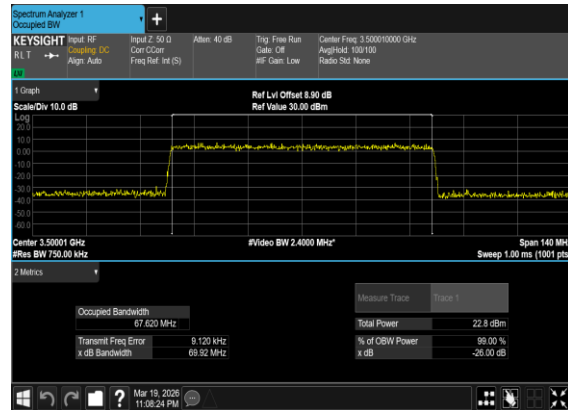
N78(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

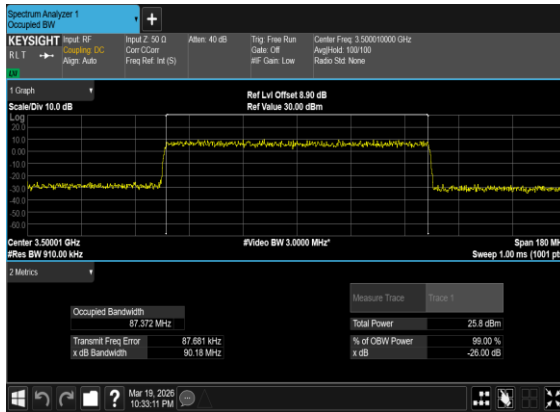


N78(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

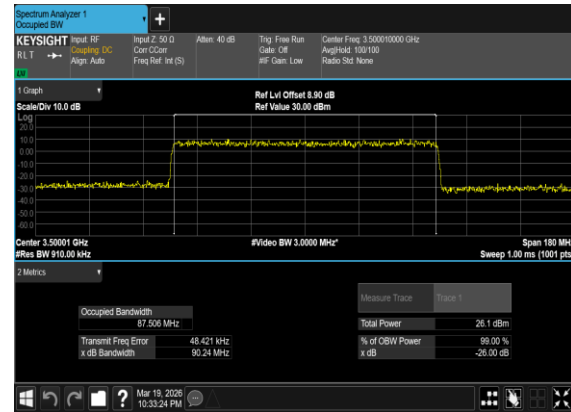




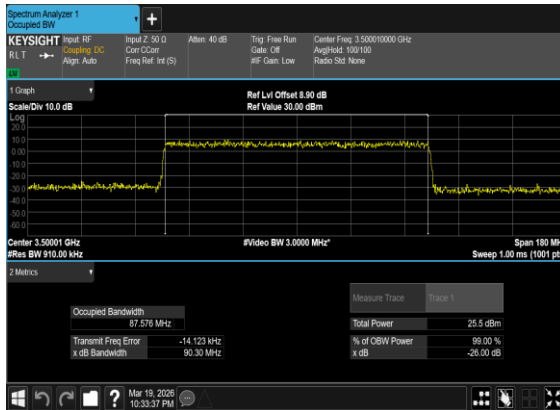
N78(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



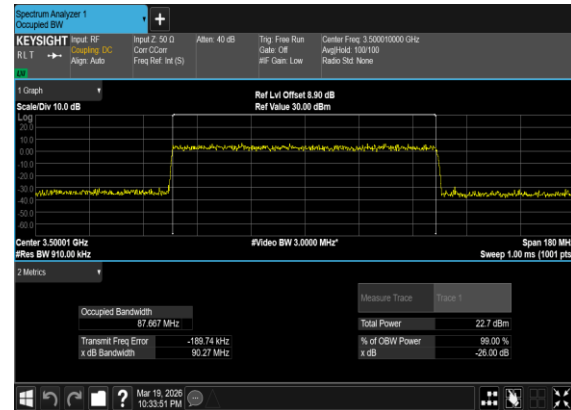
N78(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	70	632334	3485.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	70	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	70	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	70	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS



78	30	70	634332	3514.98	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	70	634332	3514.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	90	633000	3495.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	90	633000	3495.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	90	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	90	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	90	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	90	633666	3504.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@0	see graph	PASS



N78(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



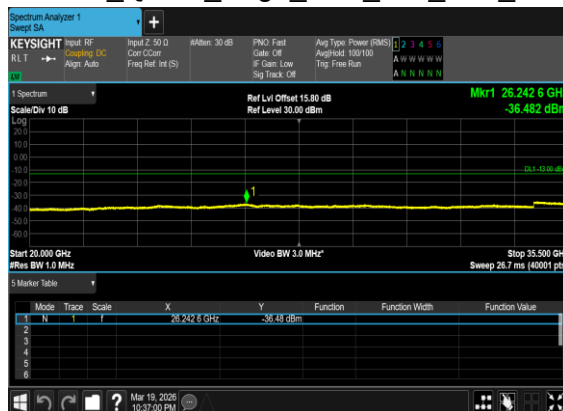
N78(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

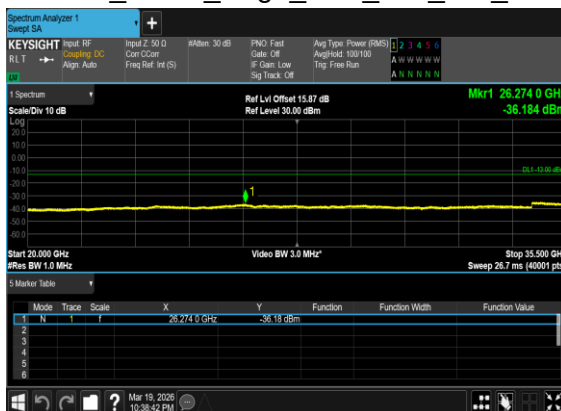




N78(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



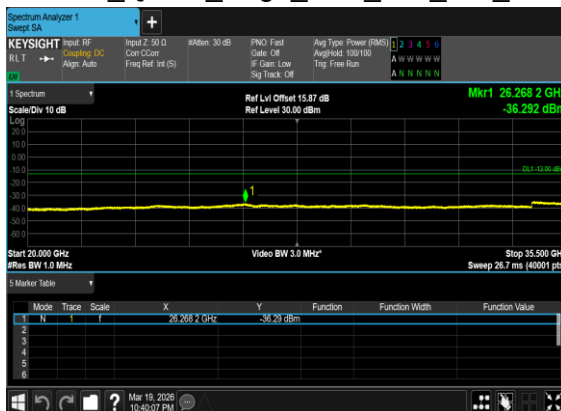
N78(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

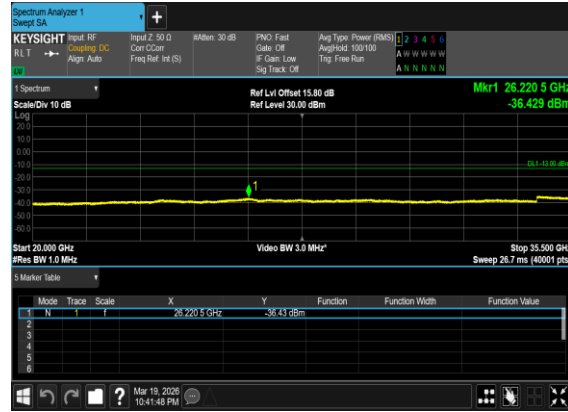




N78(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



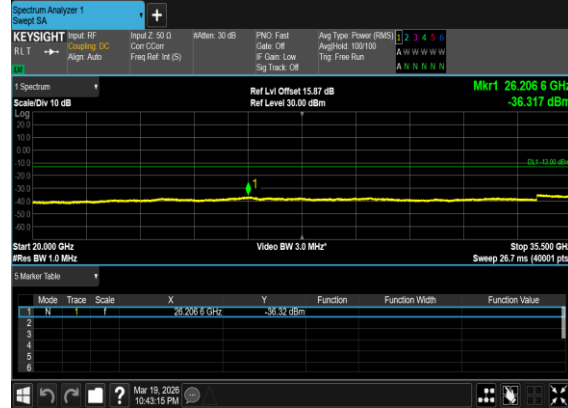
N78(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N78(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N78(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

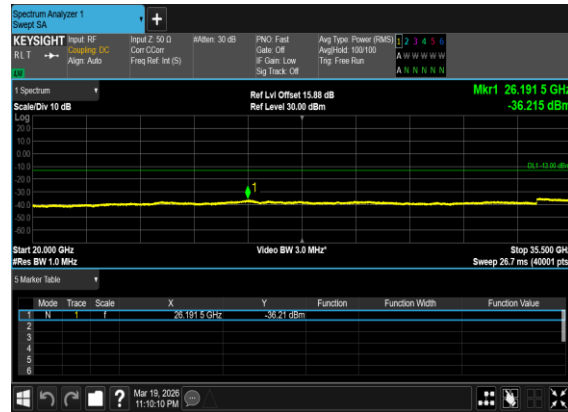




N78(70M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



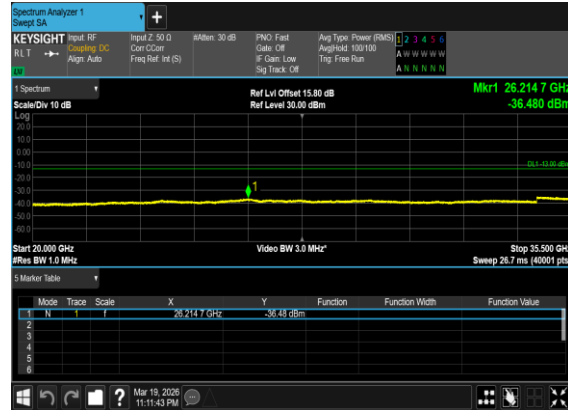
N78(70M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(70M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

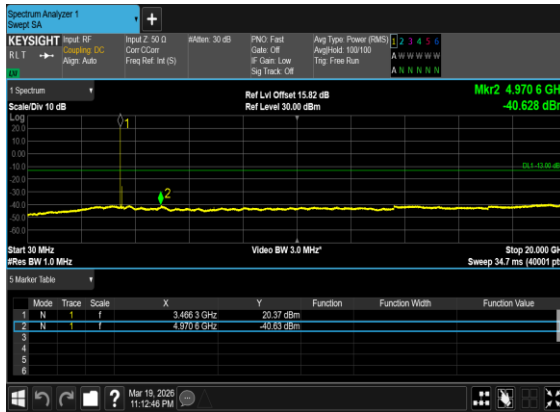


N78(70M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

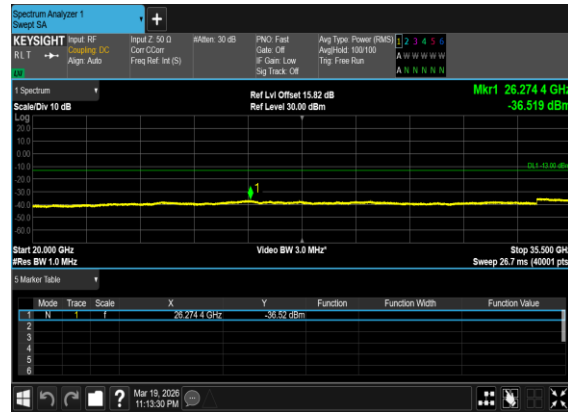




N78(70M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



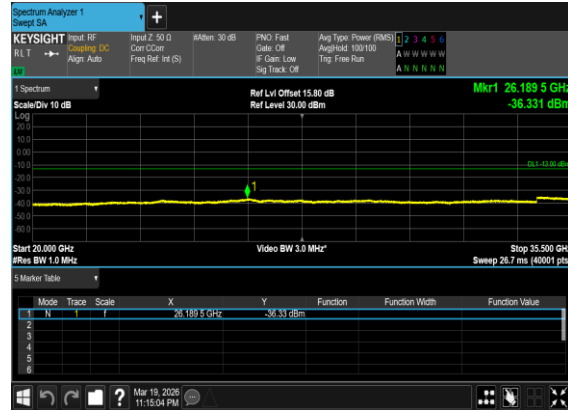
N78(70M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(70M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(70M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH





N78(70M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



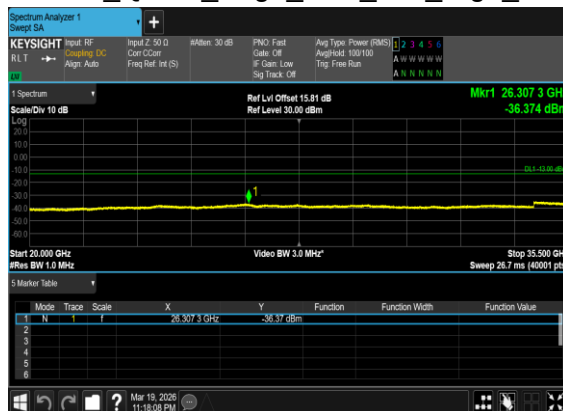
N78(70M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N78(70M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N78(70M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH





N78(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



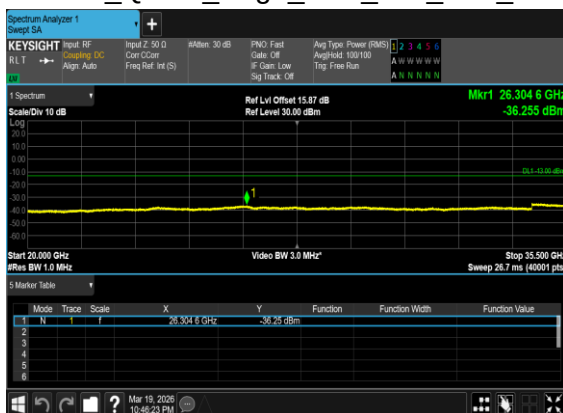
N78(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

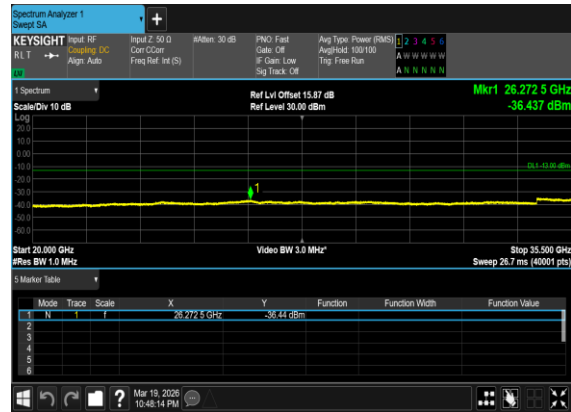




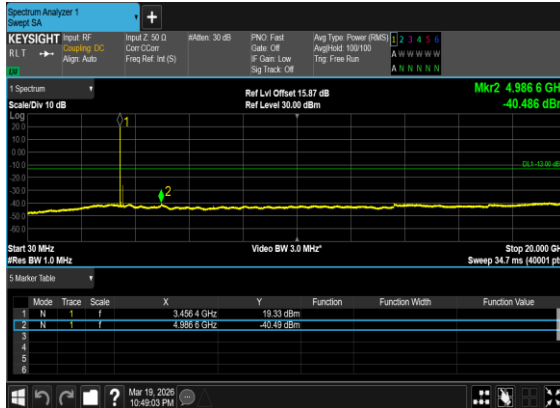
N78(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



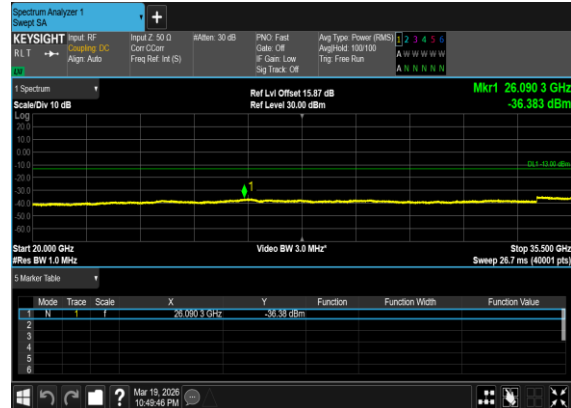
N78(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

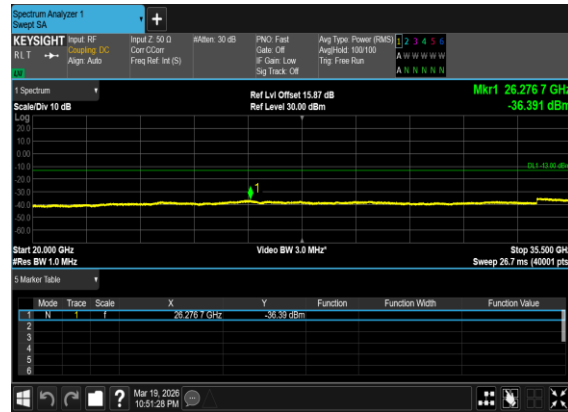




N78(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



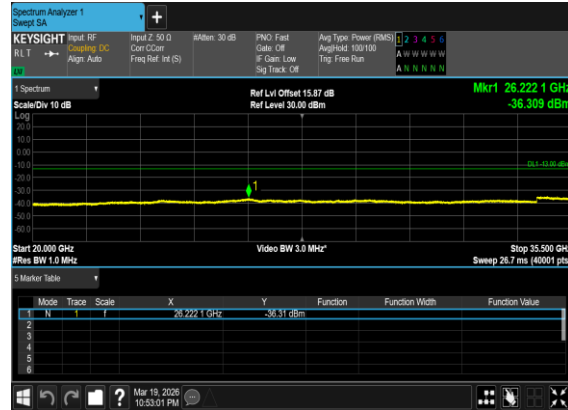
N78(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N78(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N78(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

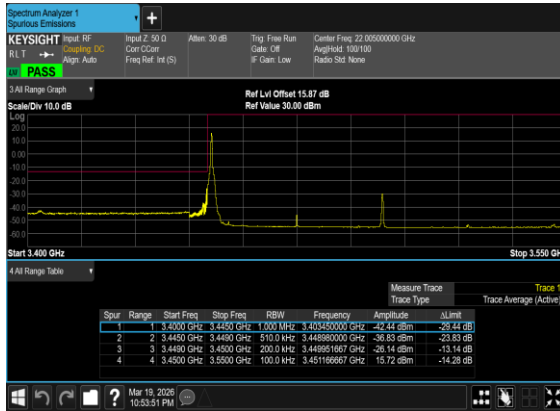


**Conducted Band Edge**

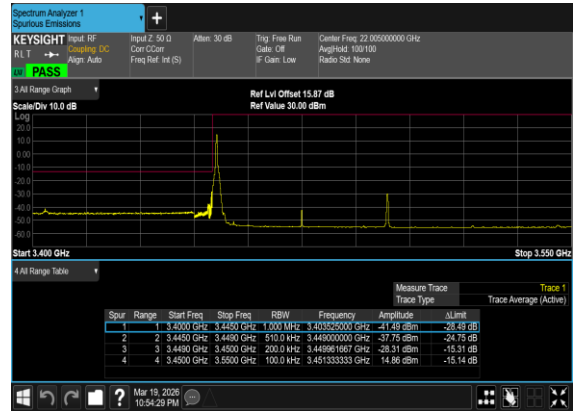
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	128@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@132	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@132	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	128@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@0	see graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM BPSK	180@0	see graph	PASS
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	180@0	see graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM BPSK	1@188	see graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@188	see graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM BPSK	180@0	see graph	PASS
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	180@0	see graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM BPSK	240@0	see graph	PASS
78	30	90	633000	3495.0	DFT-s-OFDM QPSK	240@0	see graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM BPSK	1@244	see graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@244	see graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM BPSK	240@0	see graph	PASS
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	240@0	see graph	PASS



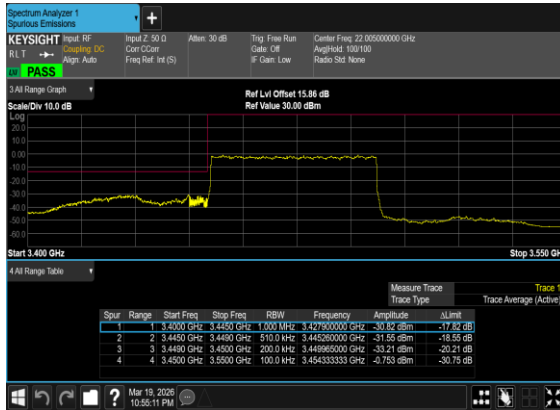
N78(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



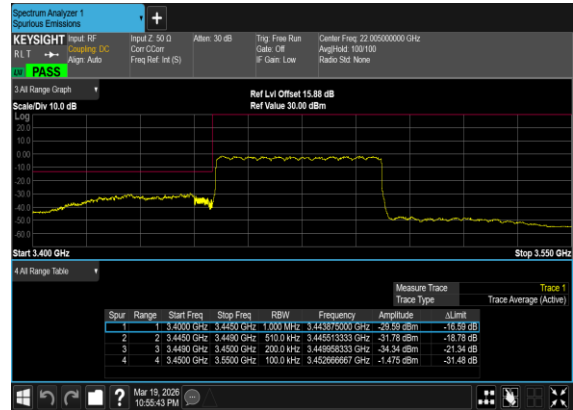
N78(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(50M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N78(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





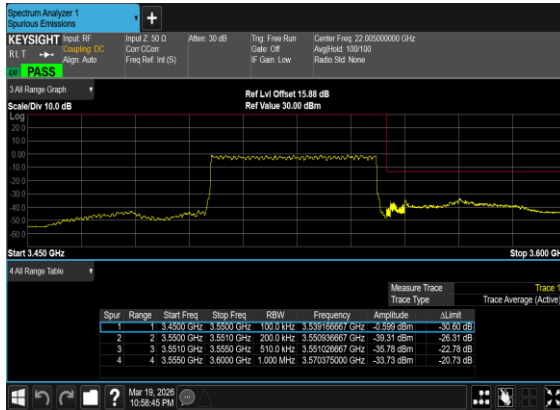
N78(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



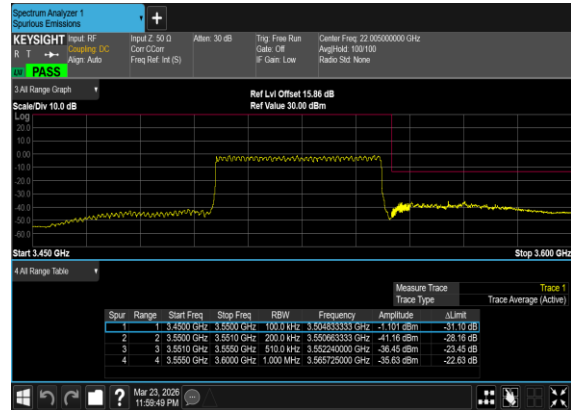
N78(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N78(50M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

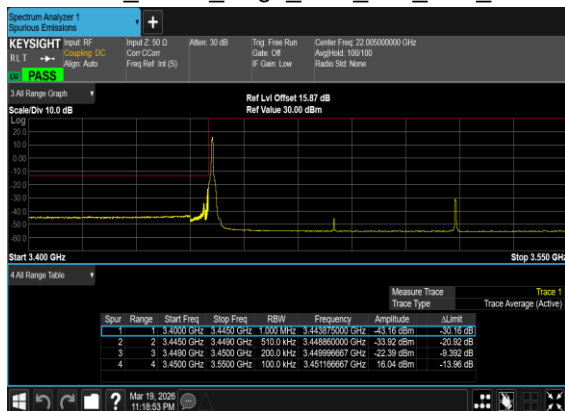


N78(50M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

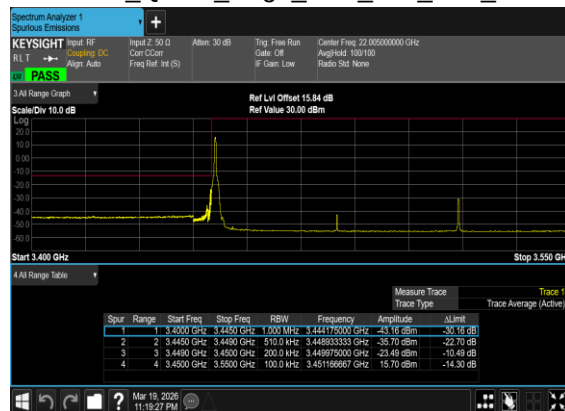




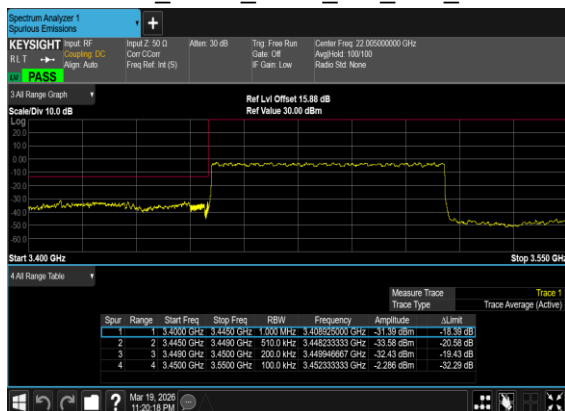
N78(70M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



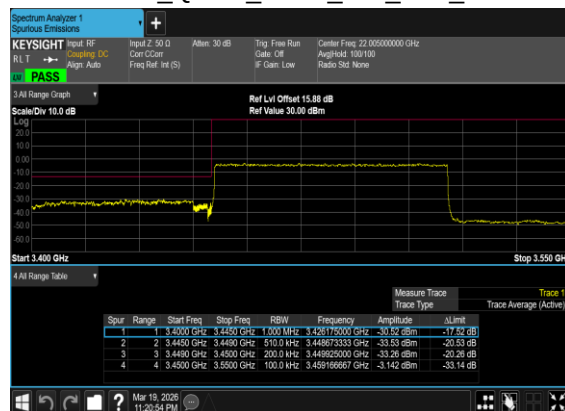
N78(70M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(70M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

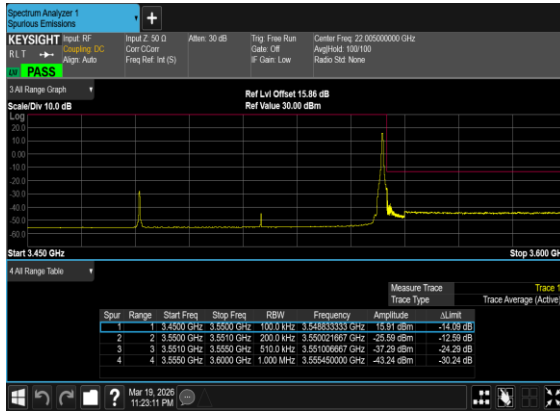


N78(70M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





N78(70M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



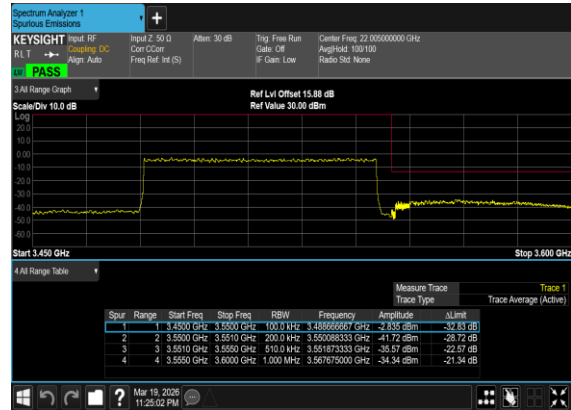
N78(70M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N78(70M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

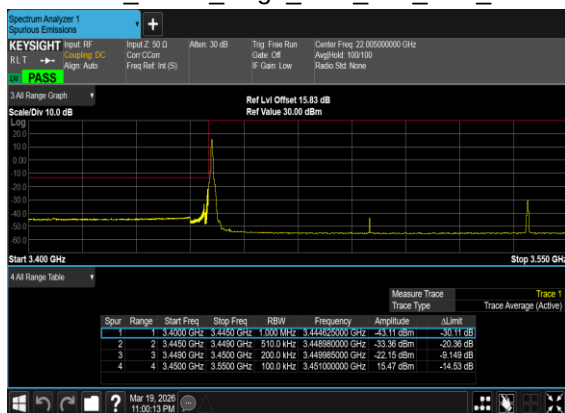


N78(70M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

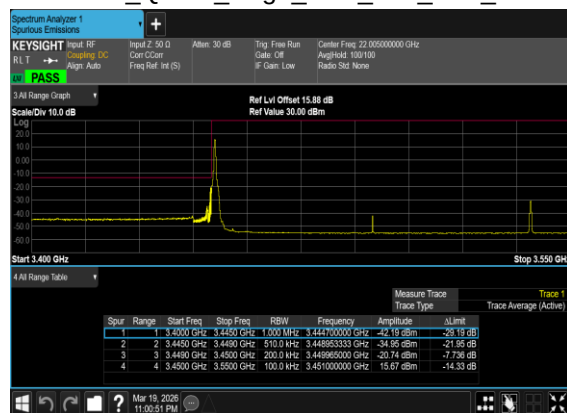




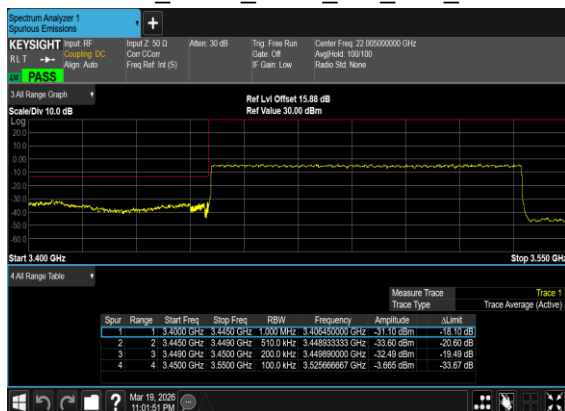
N78(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



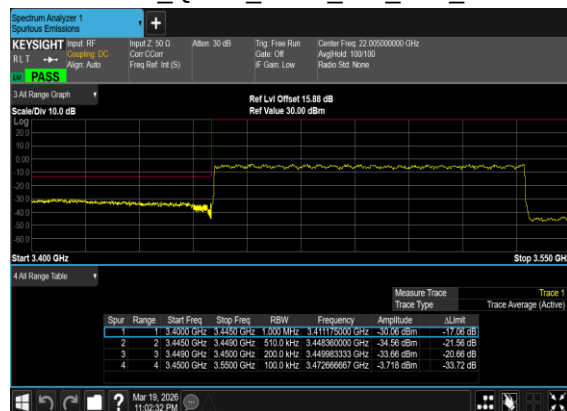
N78(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(90M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N78(90M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





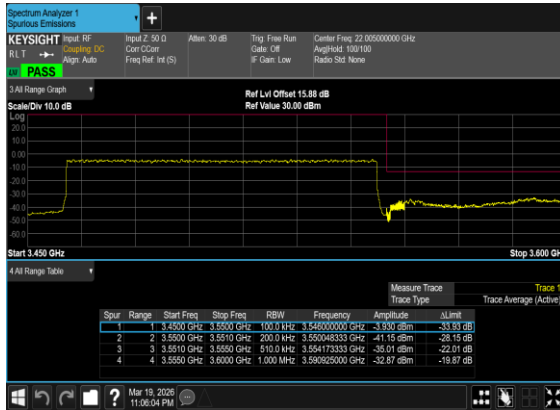
N78(90M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



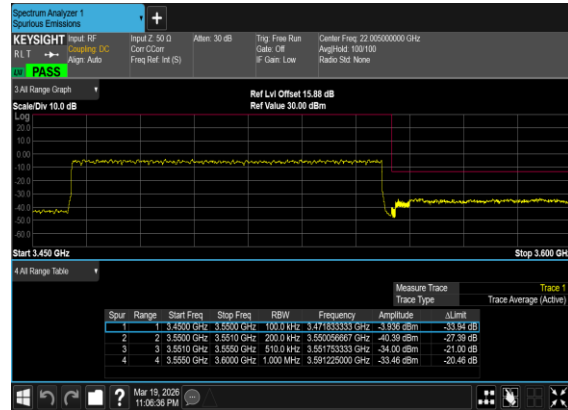
N78(90M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N78(90M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N78(90M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Wenbo Xiao	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.

SA n77 / 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	6904.00	-38.90	-13	-25.90	-30.89	-42.20	8.30	11.60	H
	10356.00	-36.82	-13	-23.82	-36.05	-38.34	10.48	12.00	H
	13808.00	-49.20	-13	-36.20	-52.51	-50.90	11.80	13.50	H
	6904.00	-31.42	-13	-18.42	-23.89	-34.72	8.30	11.60	V
	10356.00	-36.77	-13	-23.77	-35.13	-38.29	10.48	12.00	V
	13808.00	-46.97	-13	-33.97	-49.62	-48.67	11.80	13.50	V

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

EN-DC_5A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT0+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 n77 Middle	6904.00	-39.42	-13	-26.42	-31.41	-42.72	8.30	11.60	H
	10356.00	-46.42	-13	-33.42	-45.65	-47.94	10.48	12.00	H
	13808.00	-52.20	-13	-39.20	-55.51	-53.90	11.80	13.50	H
	6904.00	-32.50	-13	-19.50	-24.97	-35.80	8.30	11.60	V
	10356.00	-50.96	-13	-37.96	-49.32	-52.48	10.48	12.00	V
	13808.00	-52.99	-13	-39.99	-55.64	-54.69	11.80	13.50	V
LTE Band5 Middle	1664	-59.53	-13	-46.53	-69.09	-62.78	4.00	9.40	H
	2496	-60.69	-13	-47.69	-74.54	-64.26	4.88	10.60	H
	3328	-54.64	-13	-41.64	-70.39	-59.57	5.52	12.60	H
	4160	-50.71	-13	-37.71	-69.96	-55.18	6.00	12.62	H
	4992	-50.63	-13	-37.63	-72.52	-54.04	7.14	12.70	H
	5824	-47.58	-13	-34.58	-70.47	-50.81	7.62	13.00	H
	6656	-46.44	-13	-33.44	-37.83	-48.99	8.00	12.70	H
	7488	-48.00	-13	-35.00	-42.18	-48.95	8.40	11.50	H
	1664	-61.21	-13	-48.21	-70.37	-64.46	4.00	9.40	V
	2496	-63.25	-13	-50.25	-77.06	-66.82	4.88	10.60	V
	3328	-60.30	-13	-47.30	-75.81	-65.23	5.52	12.60	V
	4160	-57.73	-13	-44.73	-76.99	-62.20	6.00	12.62	V
	4992	-58.26	-13	-45.26	-80.20	-61.67	7.14	12.70	V
	5824	-57.10	-13	-44.10	-80.27	-60.33	7.62	13.00	V
	6656	-47.25	-13	-34.25	-39.27	-49.80	8.00	12.70	V
	7488	-46.56	-13	-33.56	-40.73	-47.51	8.40	11.50	V

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