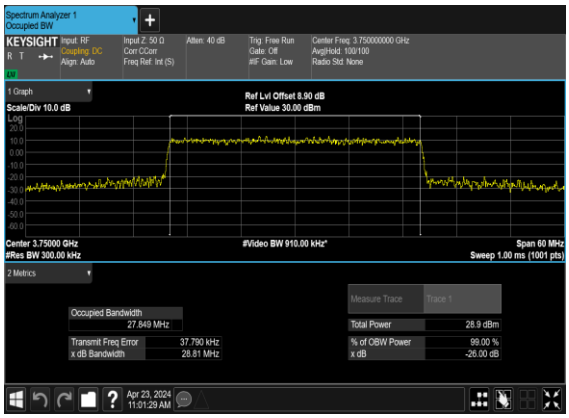
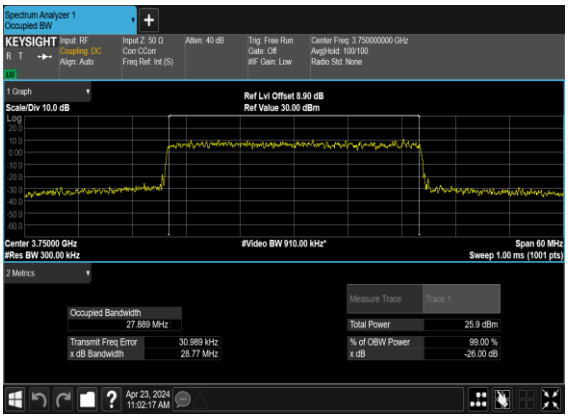
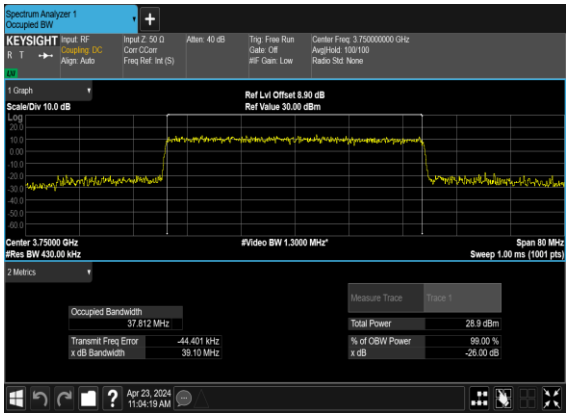
N78(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



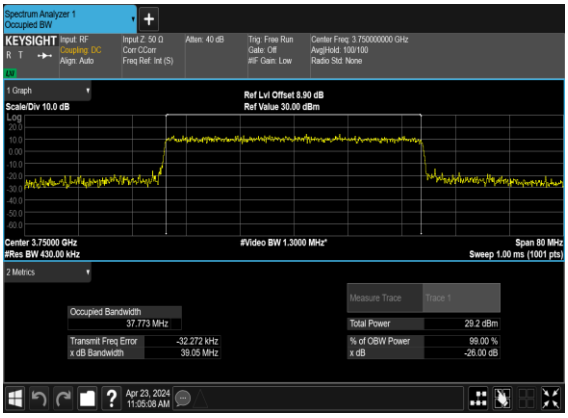
N78(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



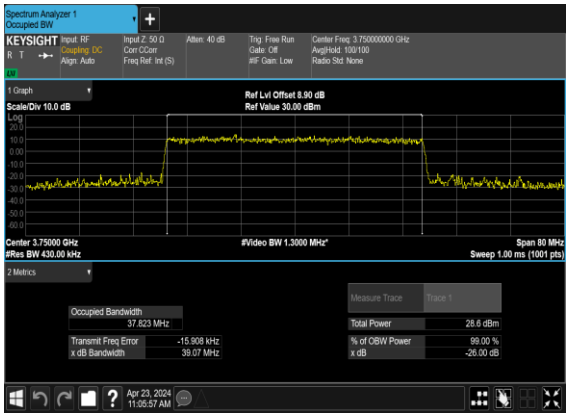
N78(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



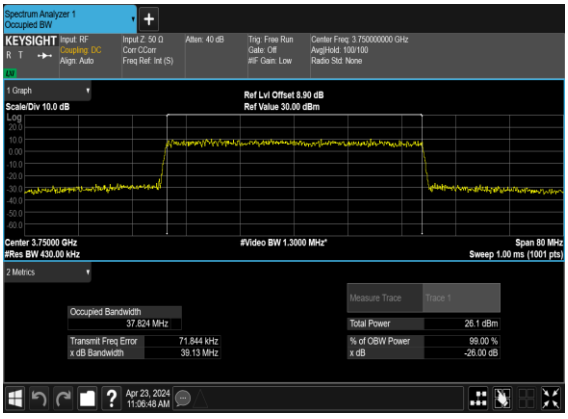
N78(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



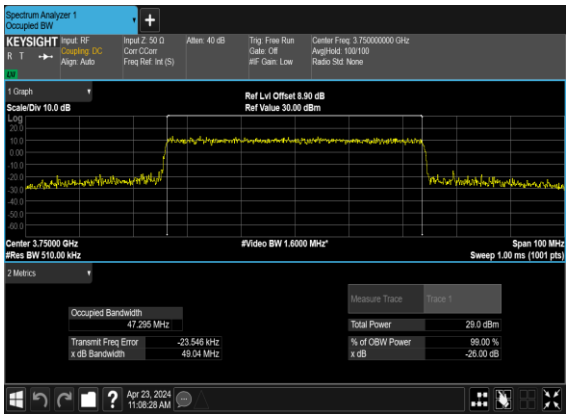
N78(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



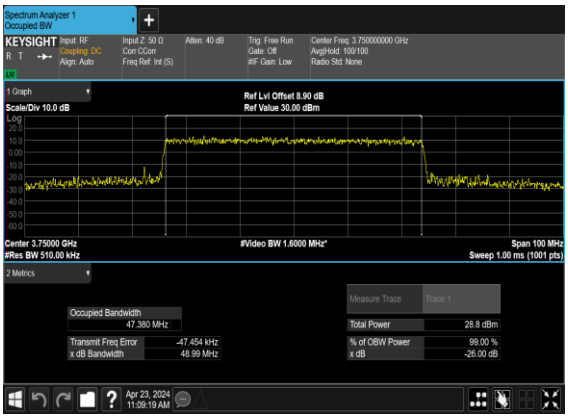
N78(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



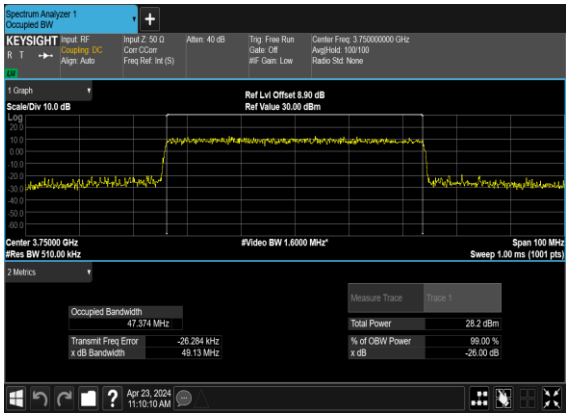
N78(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



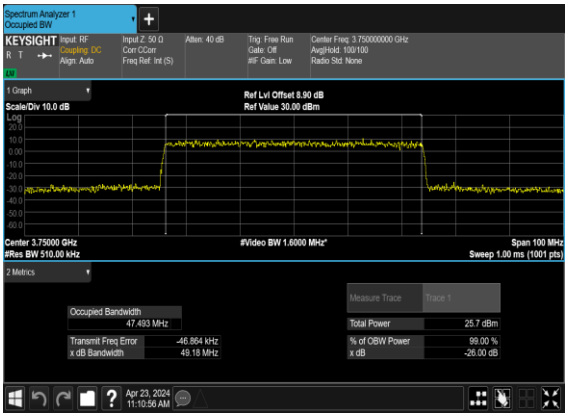
N78(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



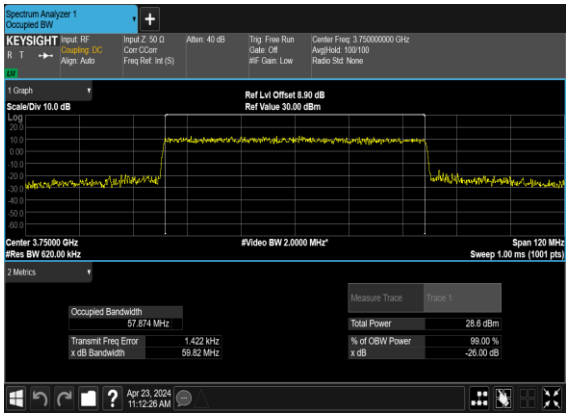
N78(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



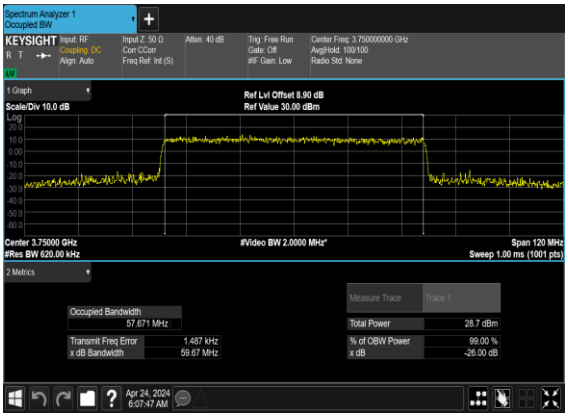
N78(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



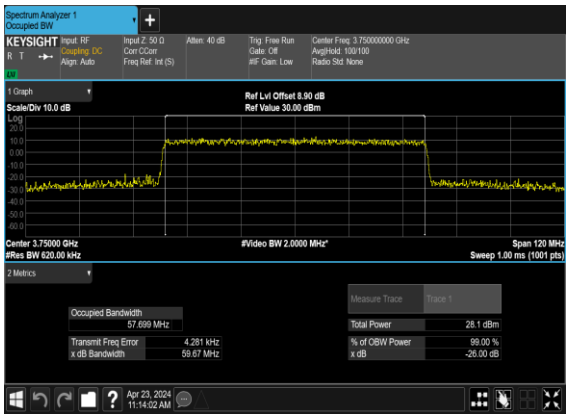
N78(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N78(60M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

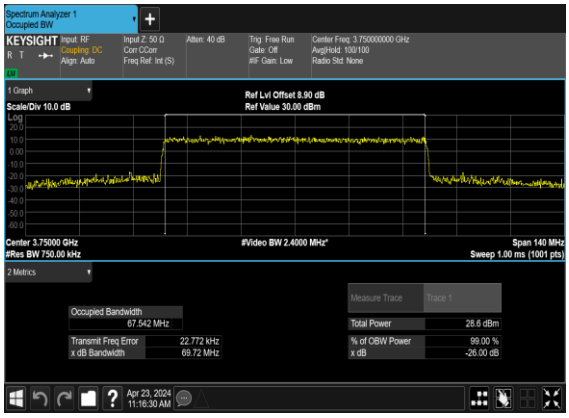


N78(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

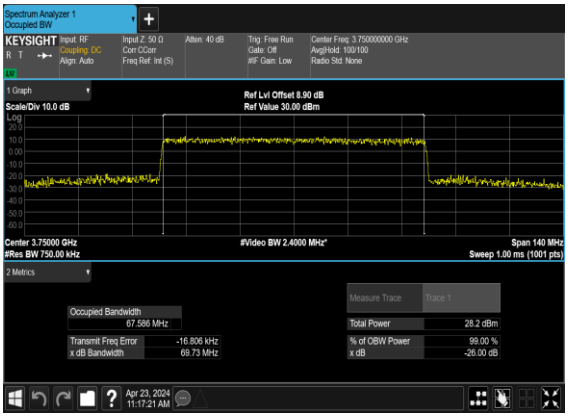


N78(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

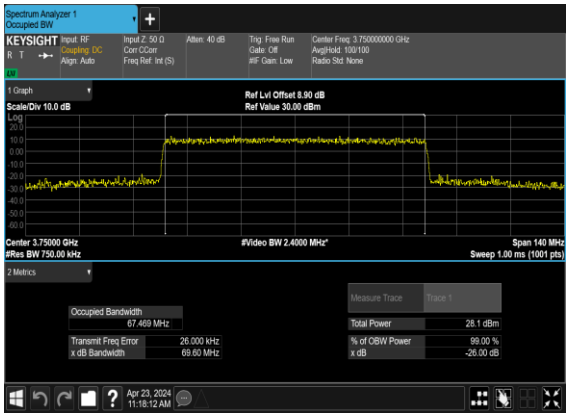
N78(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N78(70M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

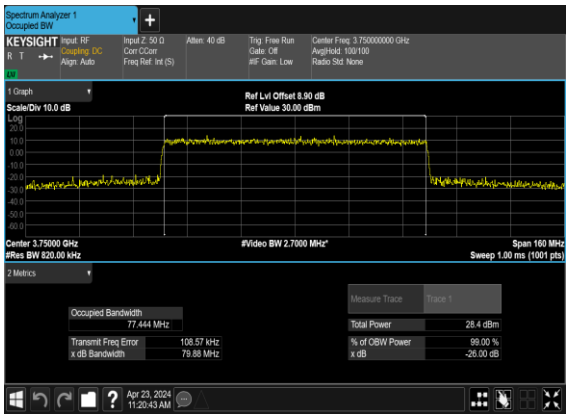


N78(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

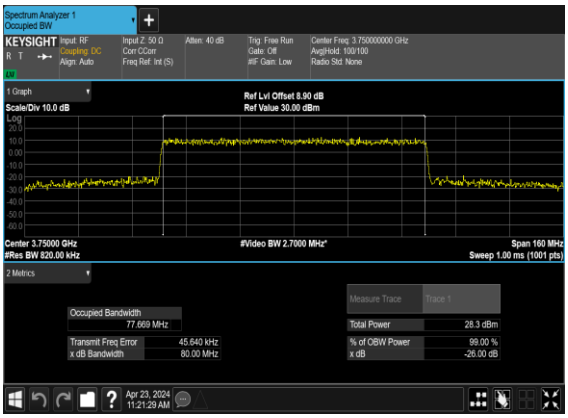


N78(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N78(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

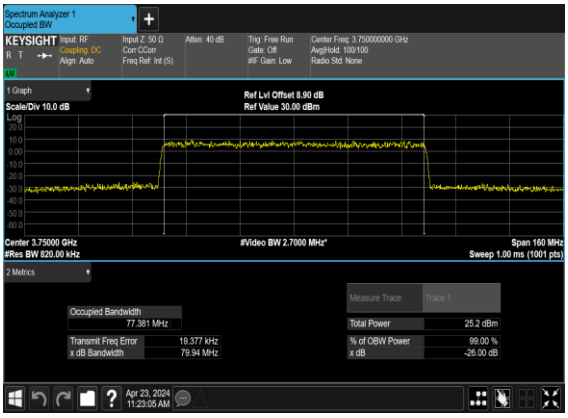


N78(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

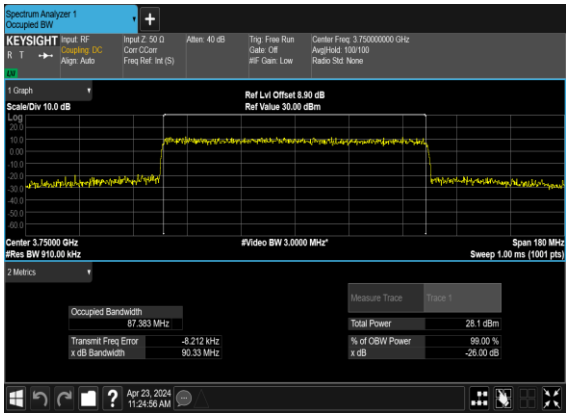


N78(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

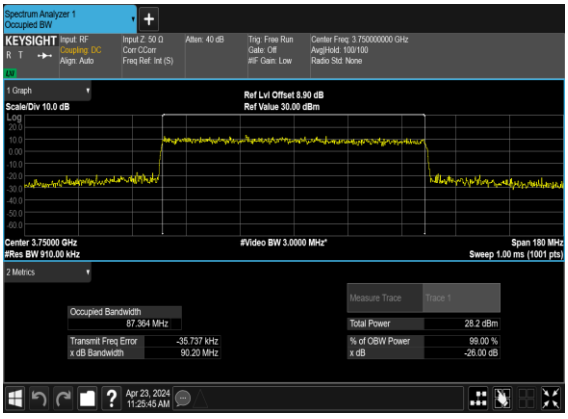
N78(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



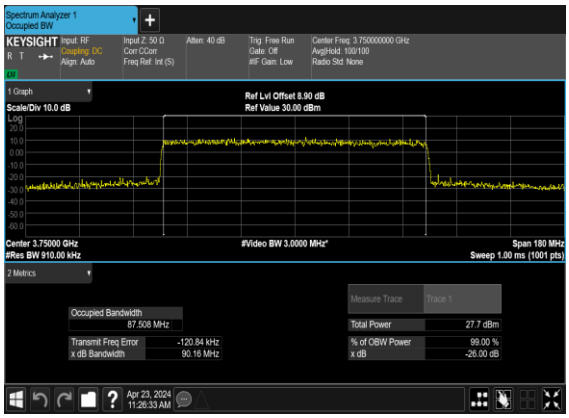
N78(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



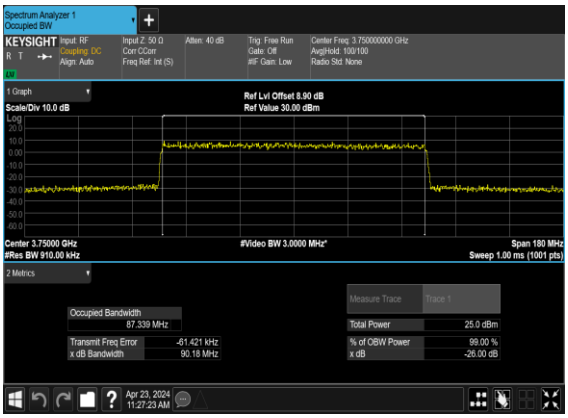
N78(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



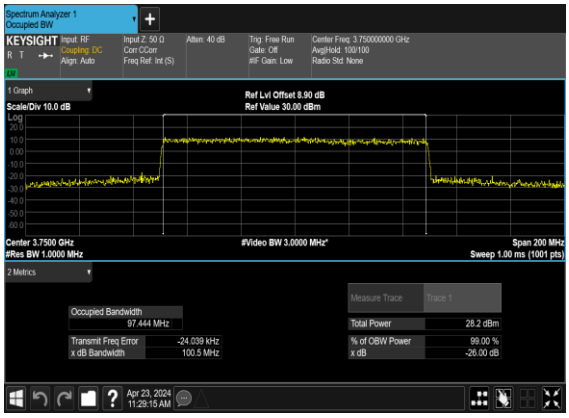
N78(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



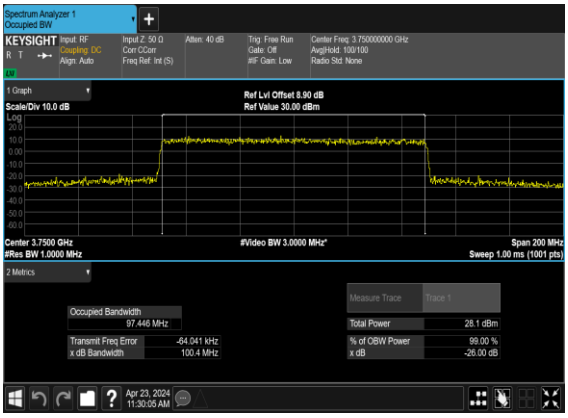
N78(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



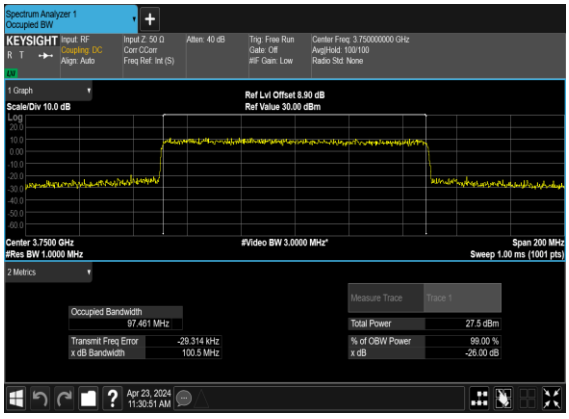
N78(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



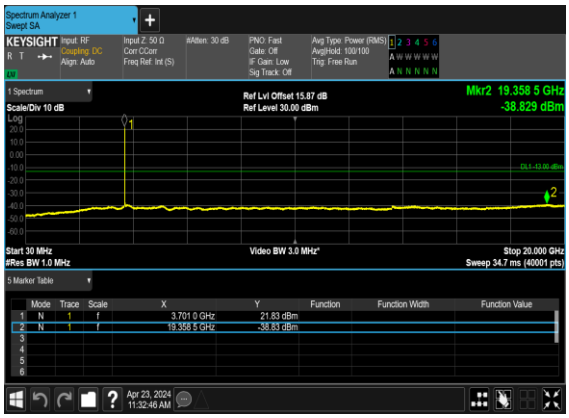
N78(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Conducted Spurious Emissions

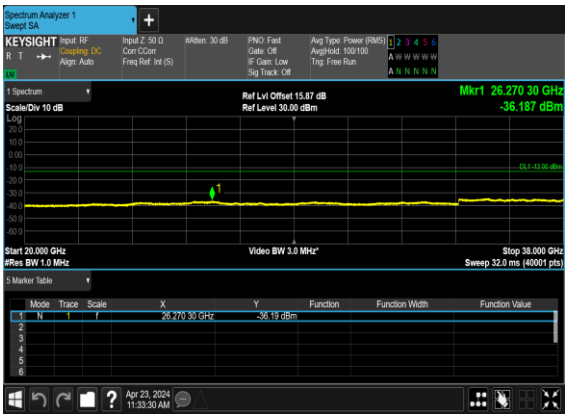
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	10	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	10	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

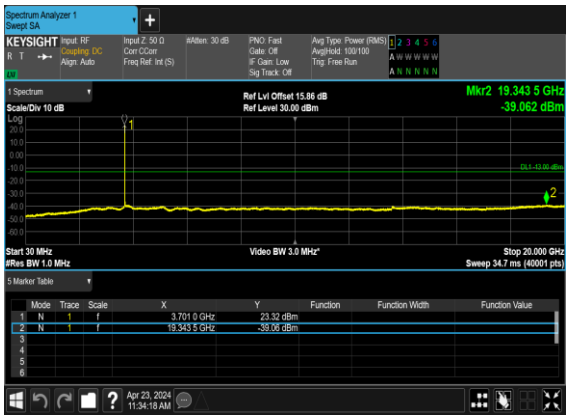
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



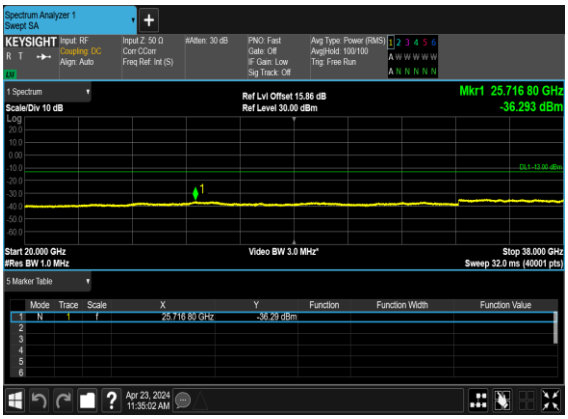
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



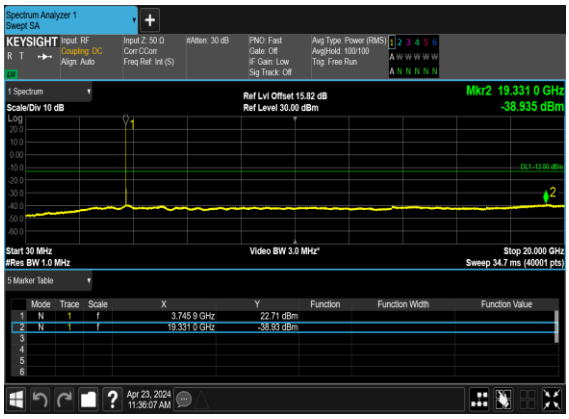
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



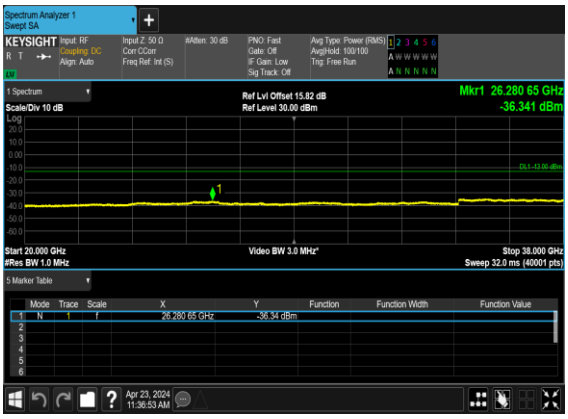
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



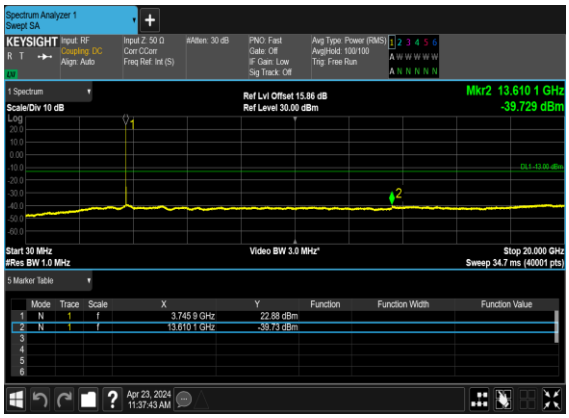
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



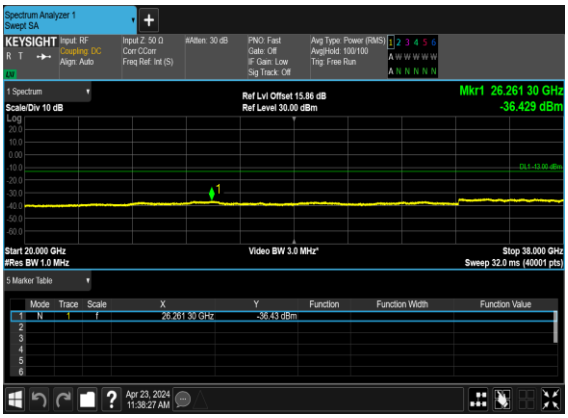
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



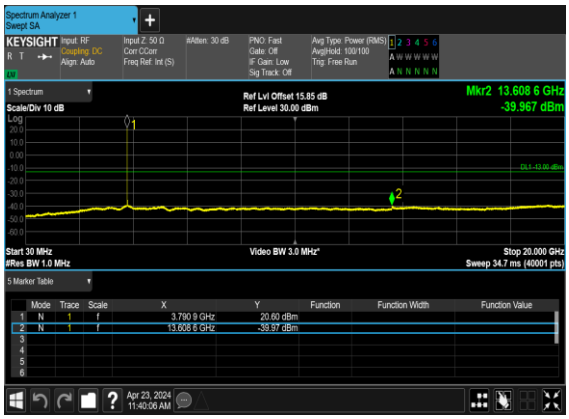
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



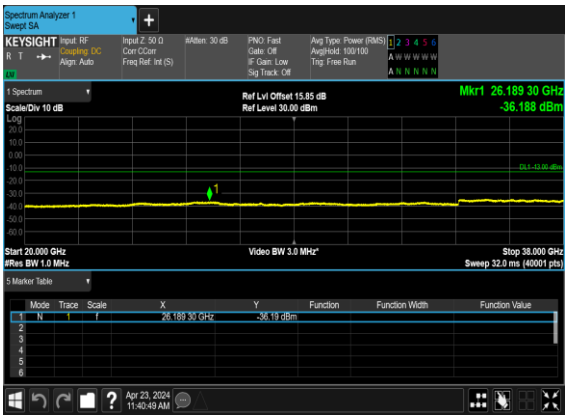
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



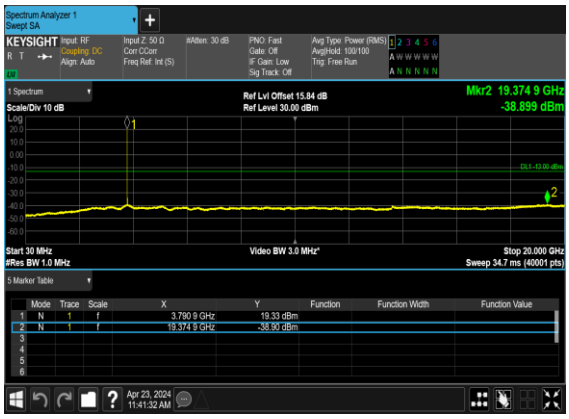
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



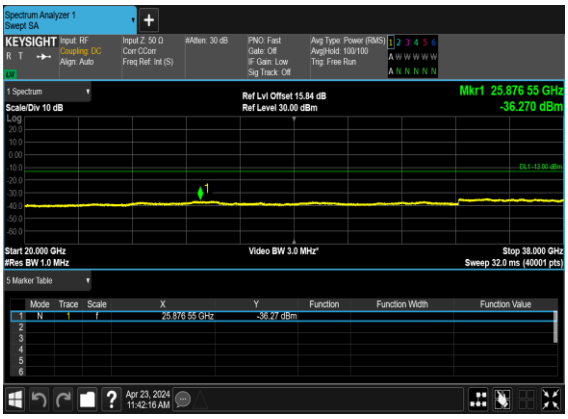
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



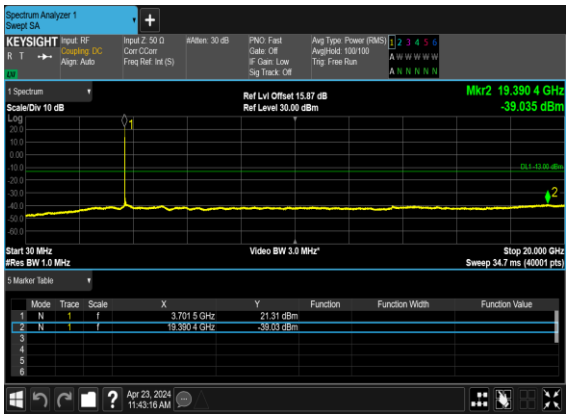
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



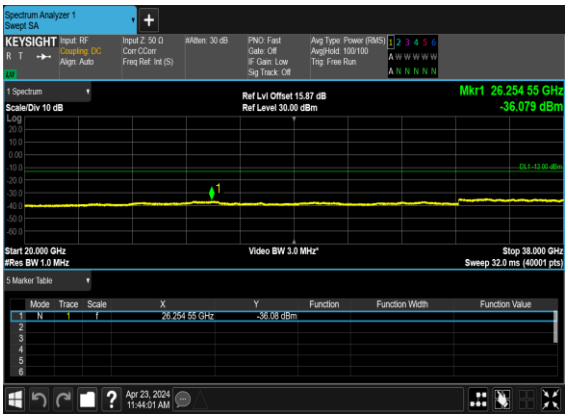
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



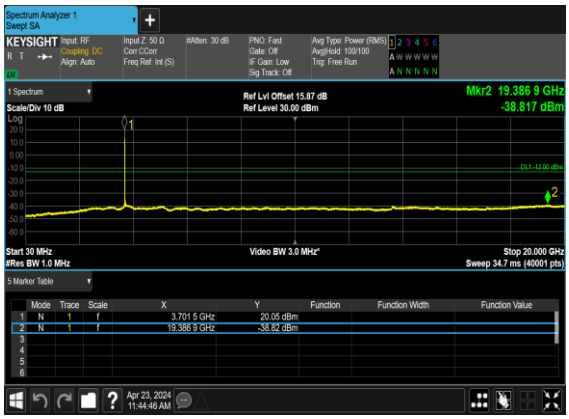
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



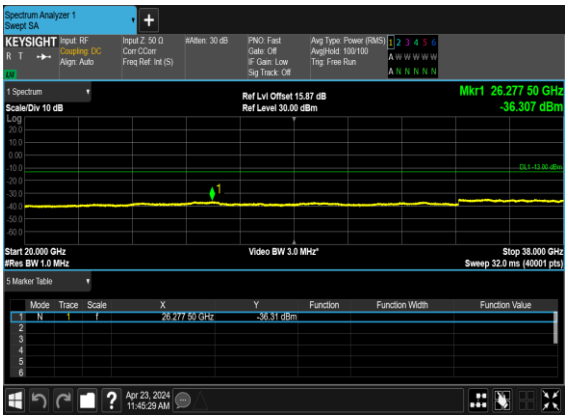
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



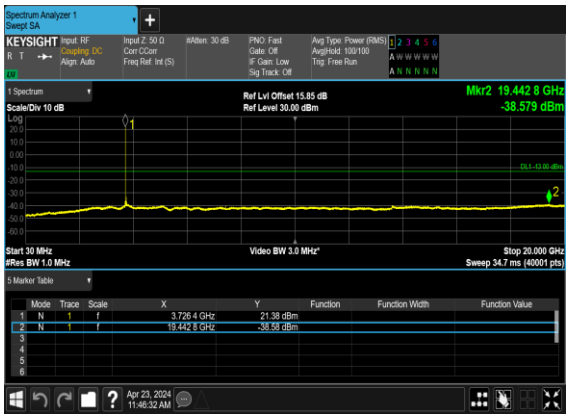
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



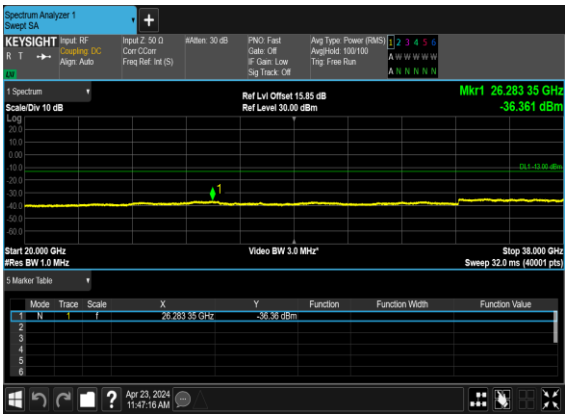
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



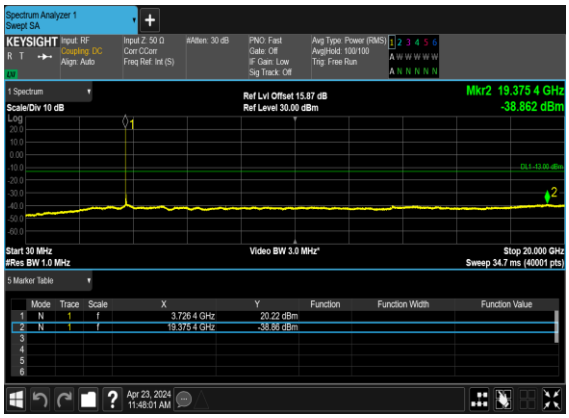
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



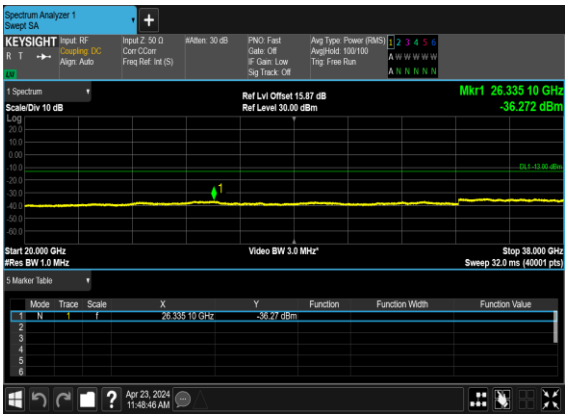
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



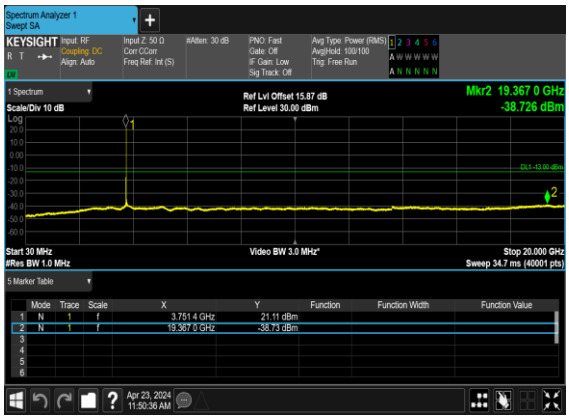
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



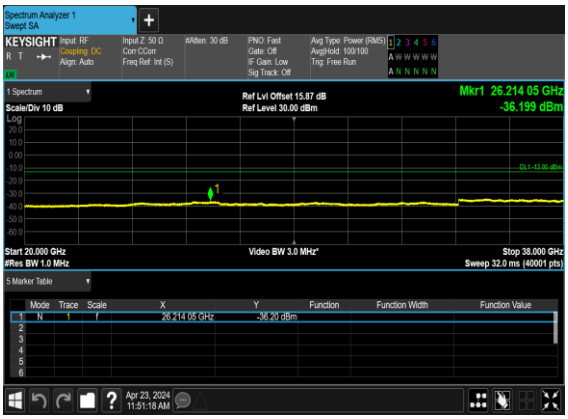
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



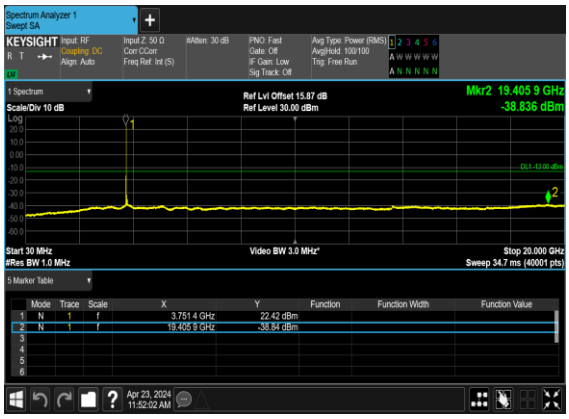
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



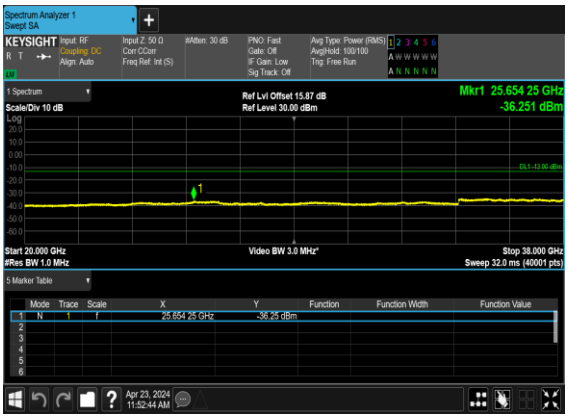
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



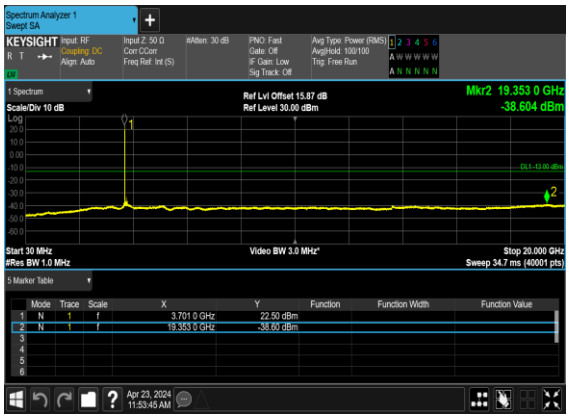
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



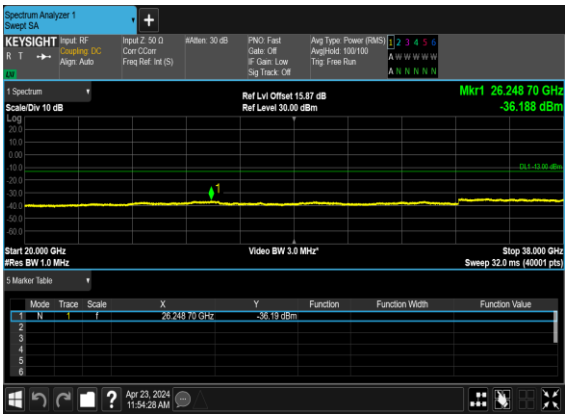
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



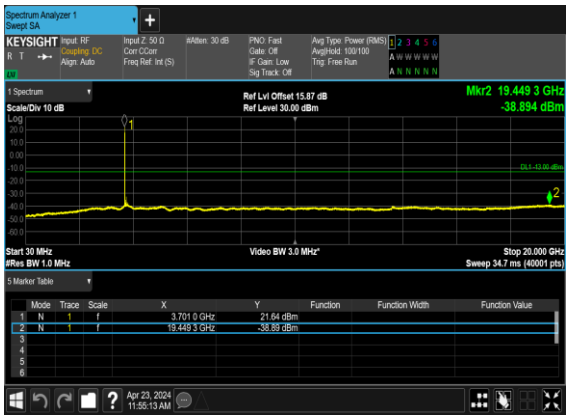
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



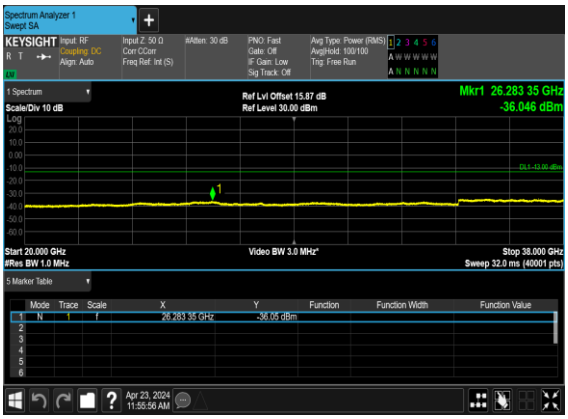
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



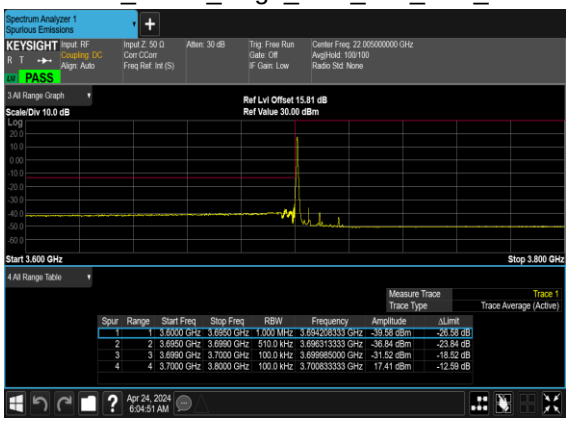
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



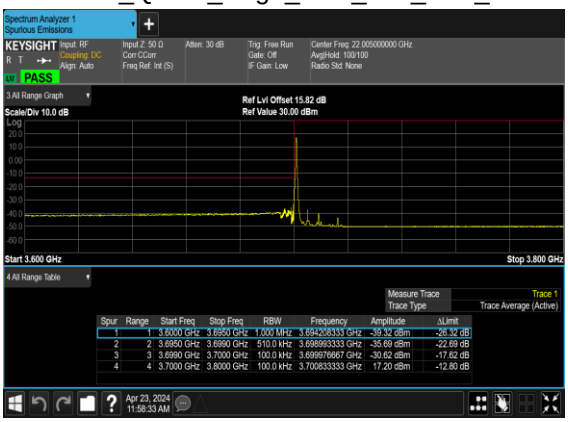
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@132	see graph	**PASS**
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@132	see graph	**PASS**
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@272	see graph	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@272	see graph	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

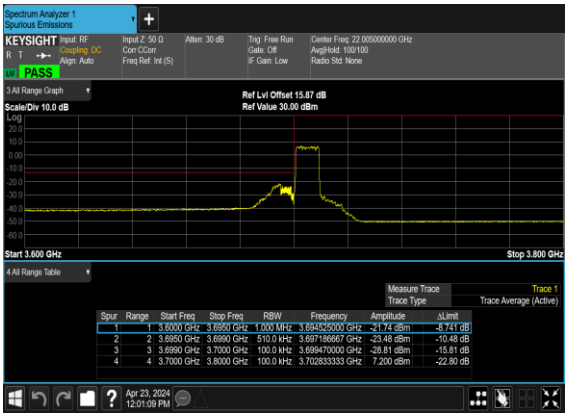


N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

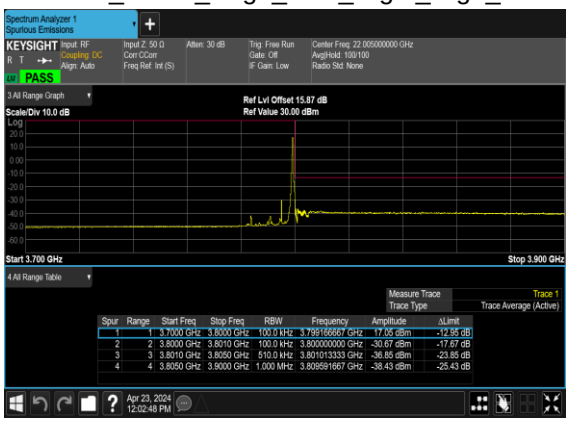


N78(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

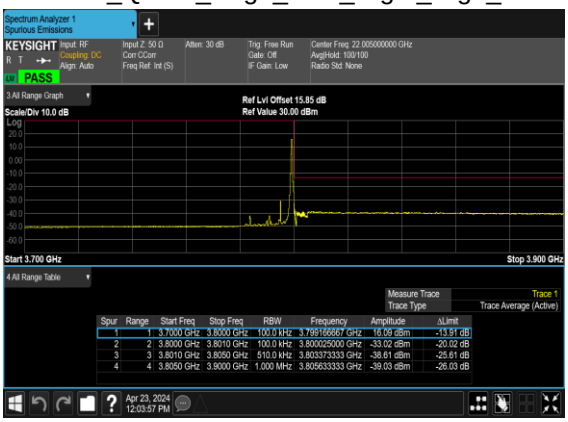
N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



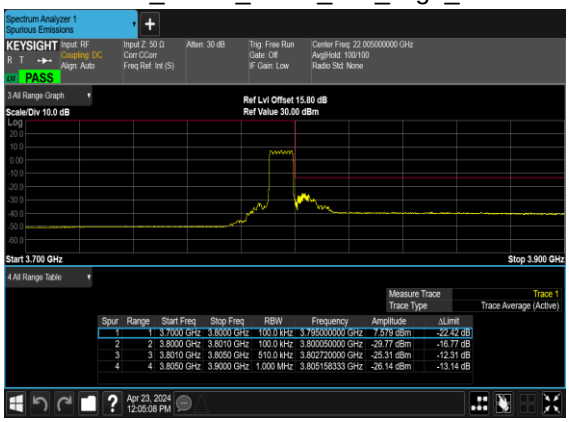
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



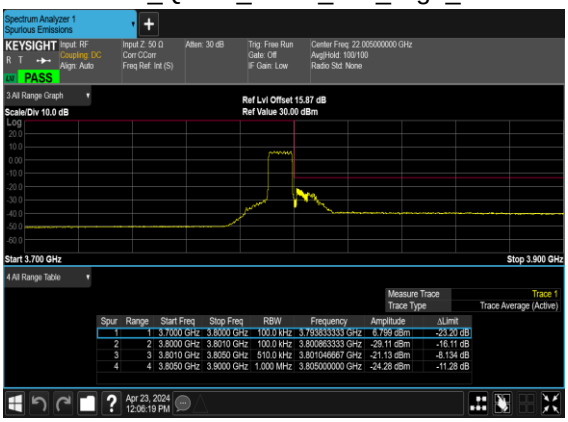
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



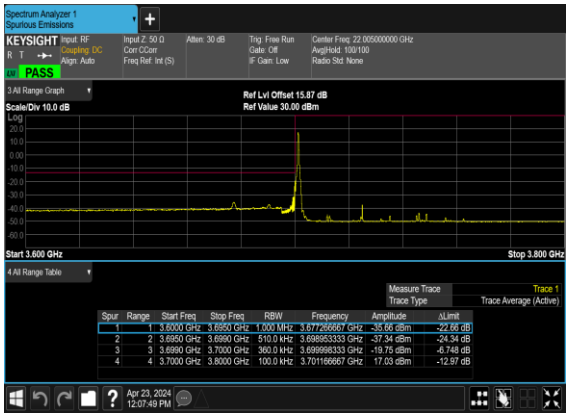
N78(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



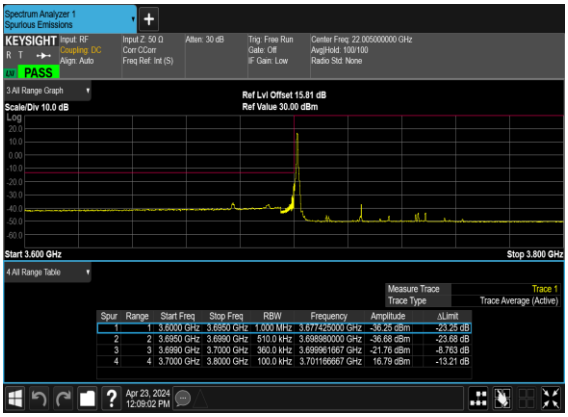
N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



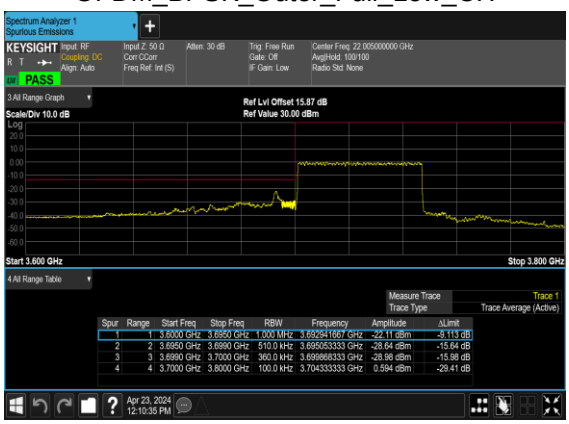
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



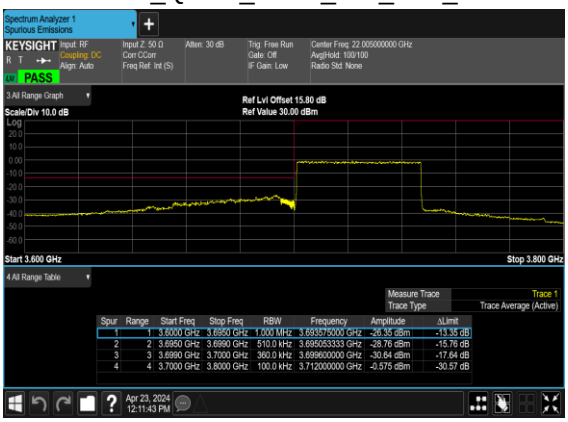
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



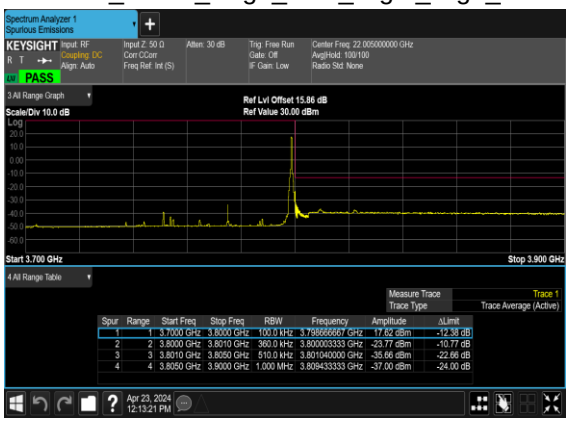
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



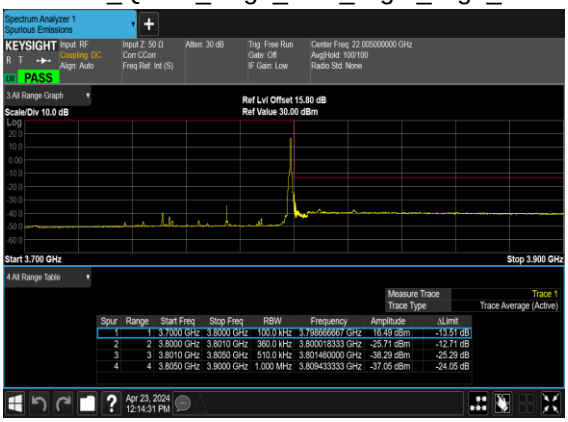
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



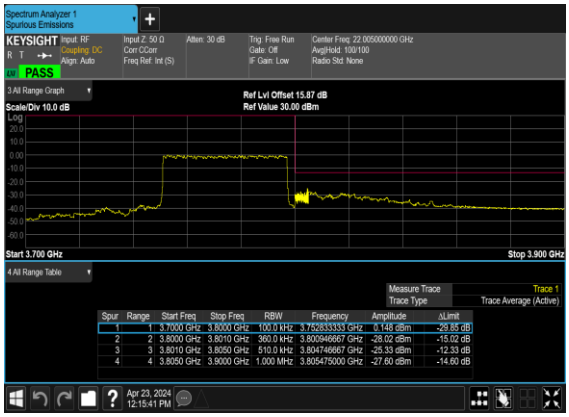
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



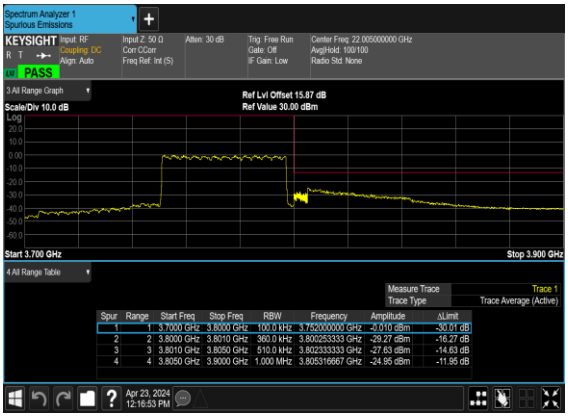
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



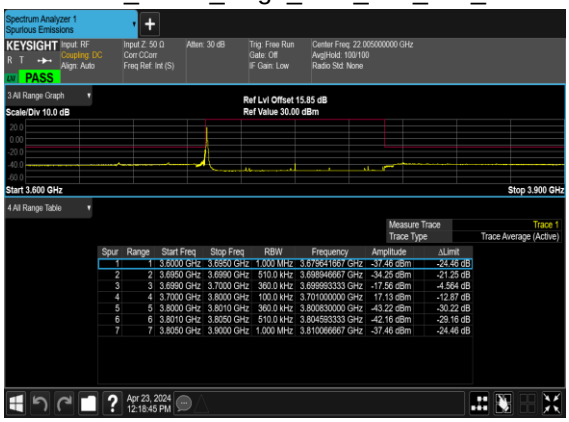
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



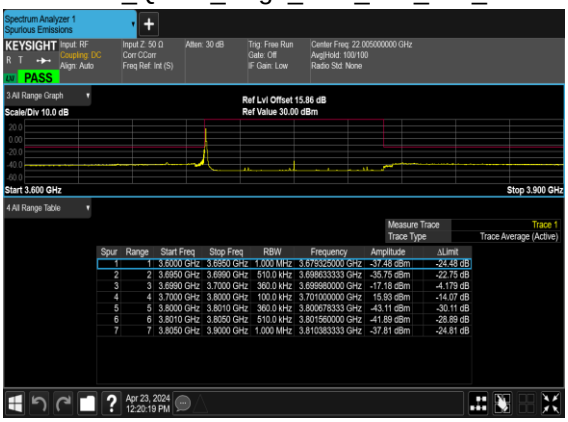
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



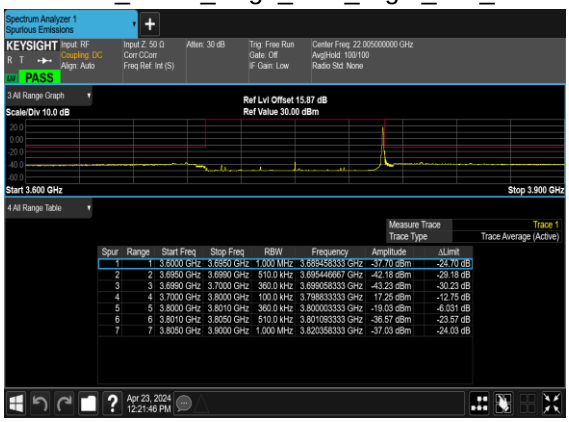
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



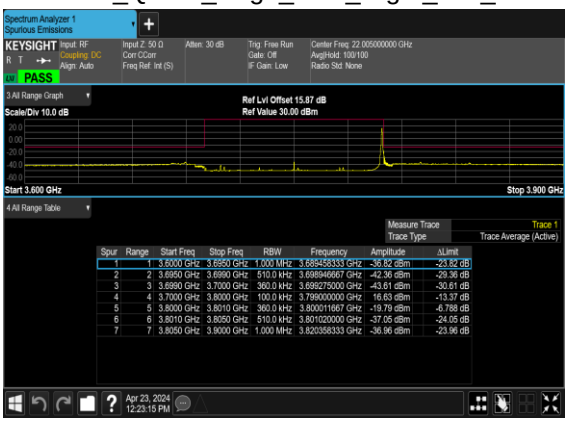
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



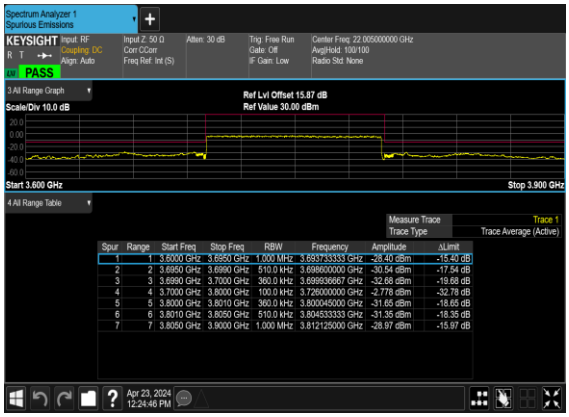
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N78(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Qingsheng He	Temperature :	22~25℃
		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	7584	-59.51	-13	-46.51	-56.38	-62.81	8.30	11.60	H
	11376	-52.90	-13	-39.90	-58.57	-54.42	10.48	12.00	H
	15168	-54.54	-13	-41.54	-59.71	-56.24	11.80	13.50	H
	7584	-59.26	-13	-46.26	-55.92	-62.56	8.30	11.60	V
	11376	-52.84	-13	-39.84	-58.32	-54.36	10.48	12.00	V
	15168	-54.42	-13	-41.42	-59.9	-56.12	11.80	13.50	V

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

n78 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	7549.98	-59.38	-13	-46.38	-56.35	-62.68	8.30	11.60	H
	11324.97	-53.04	-13	-40.04	-58.47	-54.56	10.48	12.00	H
	15099.96	-54.13	-13	-41.13	-59.66	-55.83	11.80	13.50	H
	7549.98	-59.37	-13	-46.37	-56.18	-62.67	8.30	11.60	V
	11324.97	-53.16	-13	-40.16	-58.38	-54.68	10.48	12.00	V
	15099.96	-53.58	-13	-40.58	-59.46	-55.28	11.80	13.50	V

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

EN-DC_41A_n78A / LTE 10MHz + NR 100MHz / QPSK(2+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 n78 Middle	7549.98	-59.01	-13	-46.01	-55.98	-62.31	8.30	11.60	H
	11324.97	-49.71	-13	-36.71	-55.14	-51.23	10.48	12.00	H
	15099.96	-49.72	-13	-36.72	-55.25	-51.42	11.80	13.50	H
	7549.98	-59.10	-13	-46.10	-55.91	-62.40	8.30	11.60	V
	11324.97	-53.22	-13	-40.22	-58.44	-54.74	10.48	12.00	V
	15099.96	-52.38	-13	-39.38	-58.26	-54.08	11.80	13.50	V
LTE Band41 Middle	5177.00	-61.63	-25	-36.63	-79.17	-67.19	7.14	12.70	H
	7765.50	-59.06	-25	-34.06	-56.20	-62.36	8.30	11.60	H
	10354.00	-52.11	-25	-27.11	-53.23	-53.63	10.48	12.00	H
	5177.00	-61.53	-25	-36.53	-79.01	-67.09	7.14	12.70	V
	7560.00	-58.98	-25	-33.98	-55.75	-62.28	8.30	11.60	V
	10354.00	-56.07	-25	-31.07	-56.99	-57.59	10.48	12.00	V

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