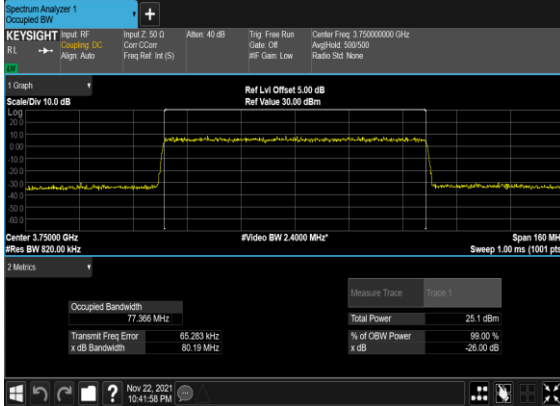
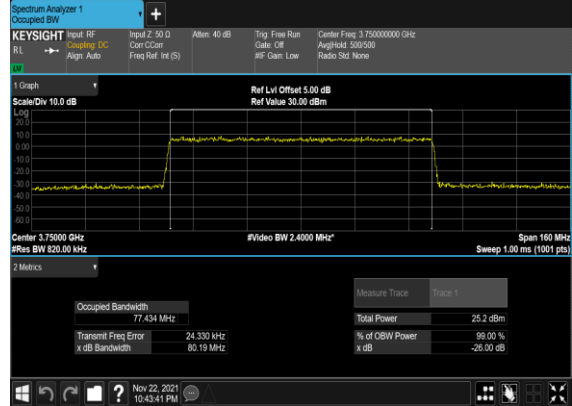


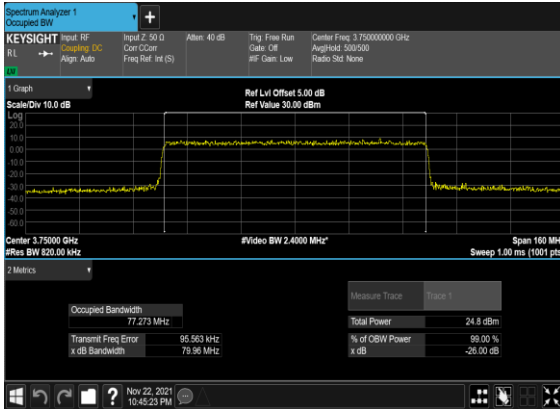
N78(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



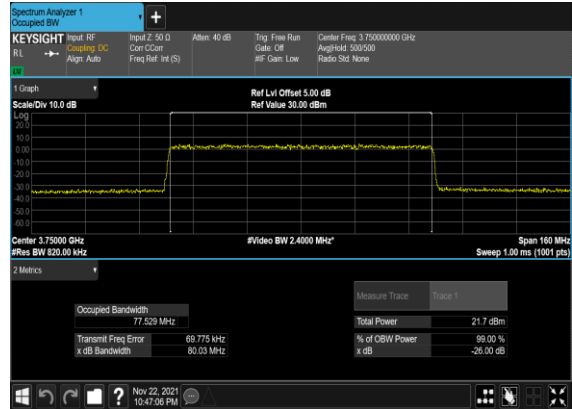
N78(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



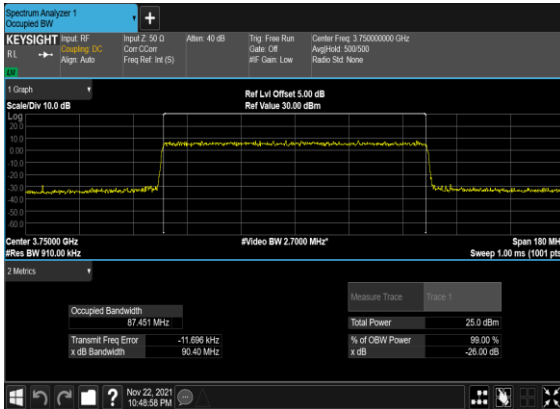
N78(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



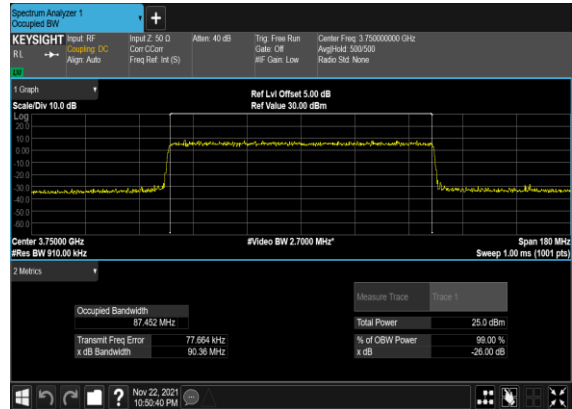
N78(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



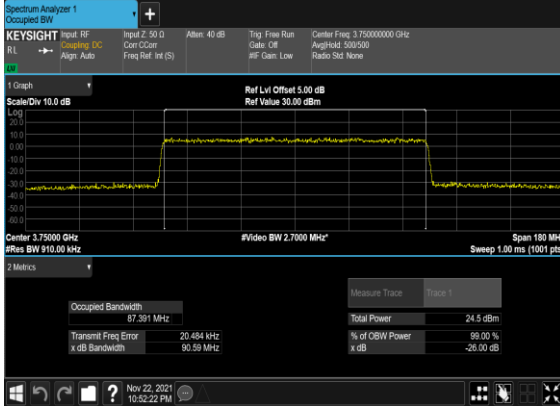
N78(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



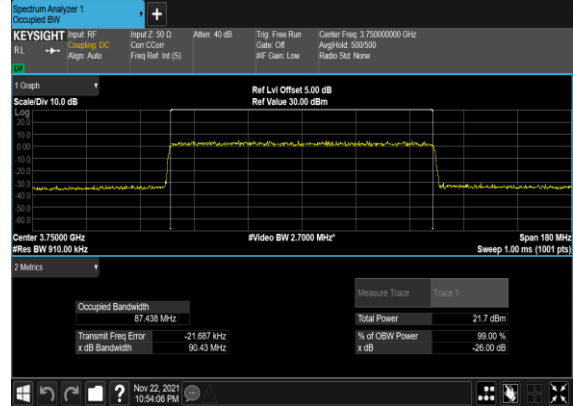
N78(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



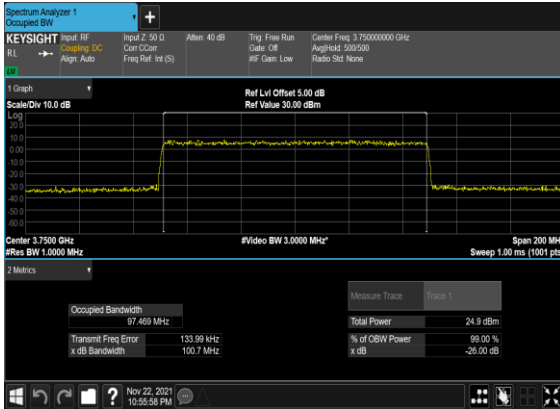
N78(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



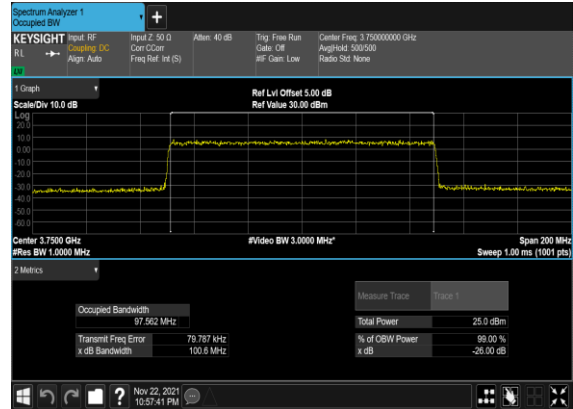
N78(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



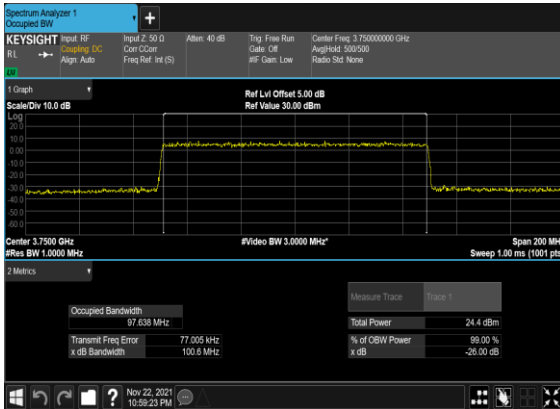
N78(100M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



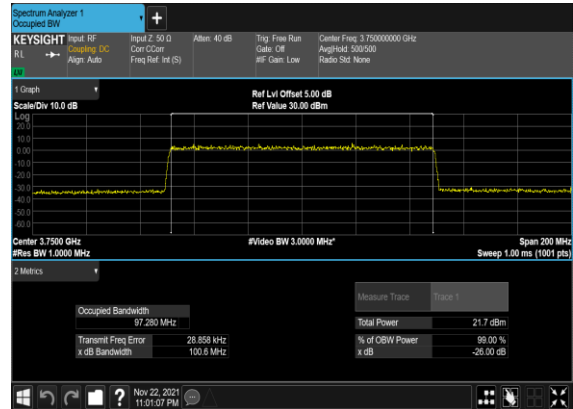
N78(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



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	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	---
78	30	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	20	650000	3750.0	CP-OFDM QPSK	1@0	see graph	---
78	30	20	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	20	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	20	652666	3789.99	CP-OFDM QPSK	1@0	see graph	---
78	30	20	652666	3789.99	CP-OFDM QPSK	1@0	see graph	PASS
78	30	20	652666	3789.99	CP-OFDM QPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	CP-OFDM QPSK	1@0	see graph	---
78	30	60	648668	3730.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	60	650000	3750.0	CP-OFDM QPSK	1@0	see graph	---
78	30	60	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	60	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	60	651332	3769.98	CP-OFDM QPSK	1@0	see graph	---
78	30	60	651332	3769.98	CP-OFDM QPSK	1@0	see graph	PASS
78	30	60	651332	3769.98	CP-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	CP-OFDM QPSK	1@0	see graph	---
78	30	100	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS

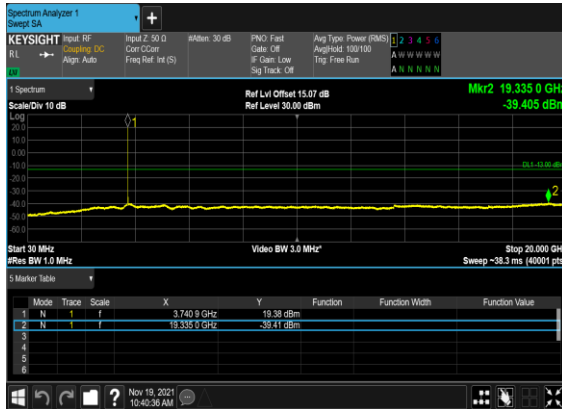
N78(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



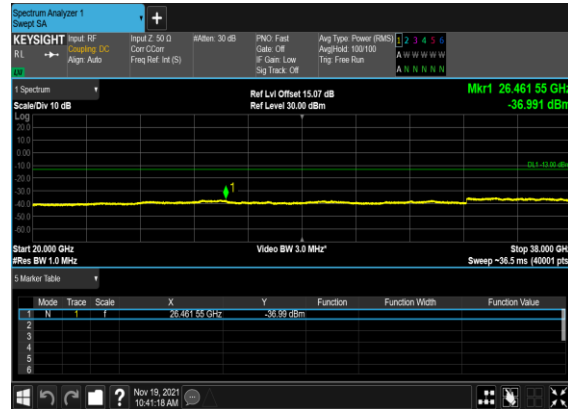
N78(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



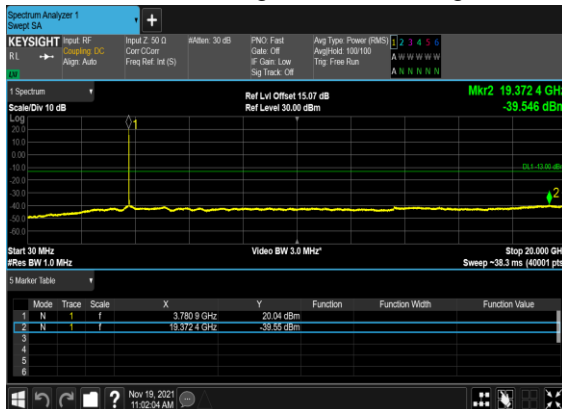
N78(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



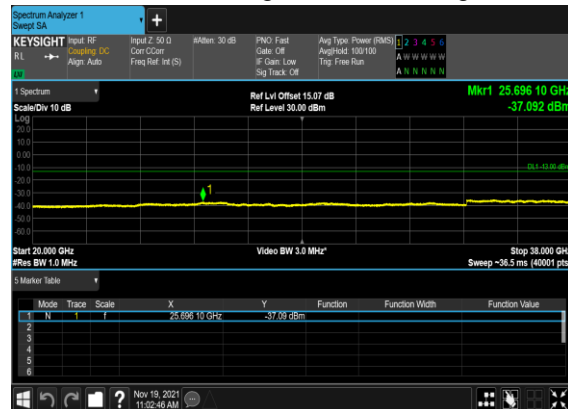
N78(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



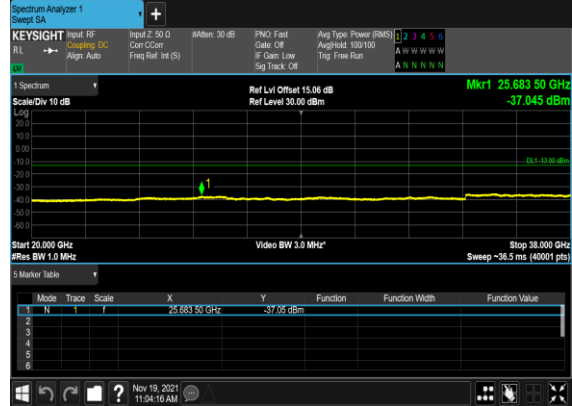
N78(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



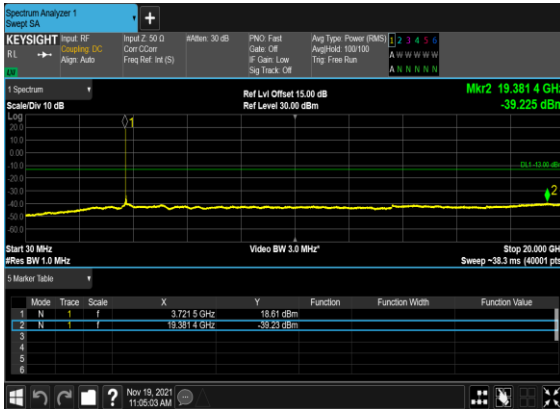
N78(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



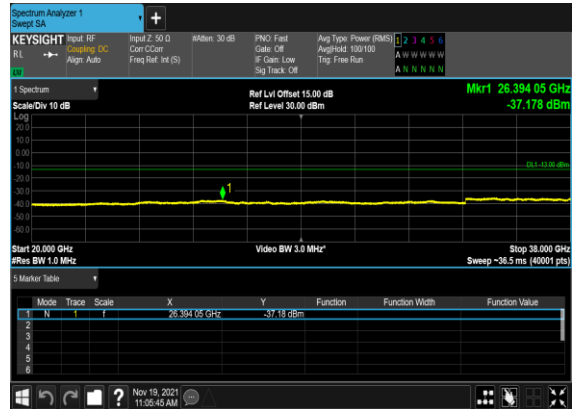
N78(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



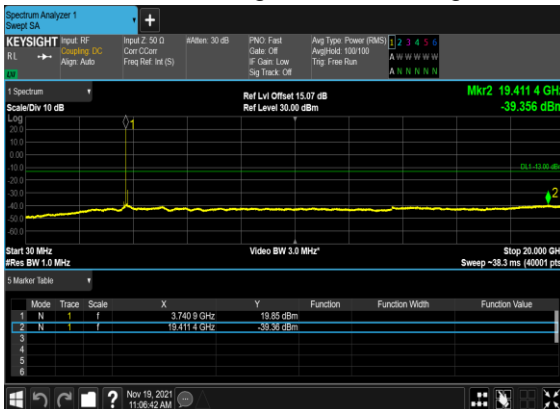
N78(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



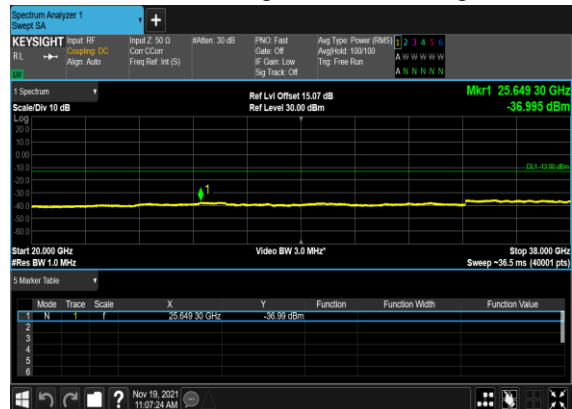
N78(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



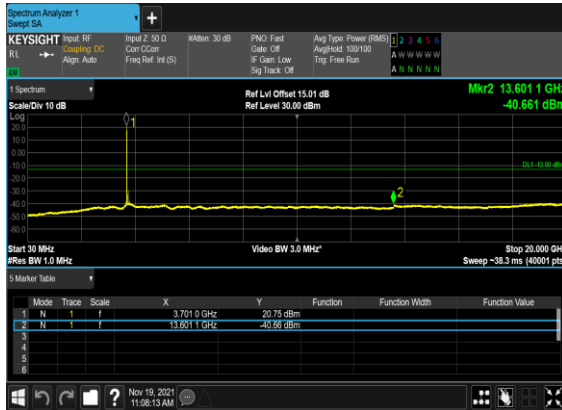
N78(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



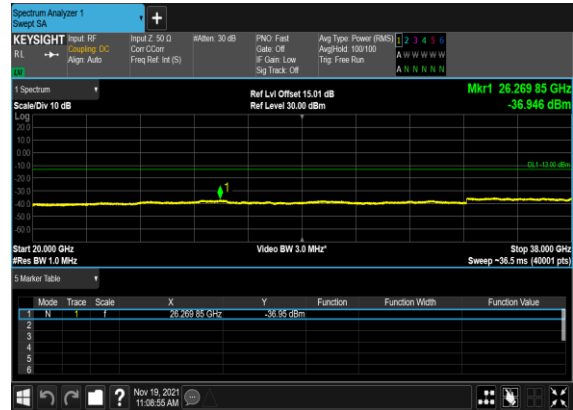
N78(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_High_CH



N78(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



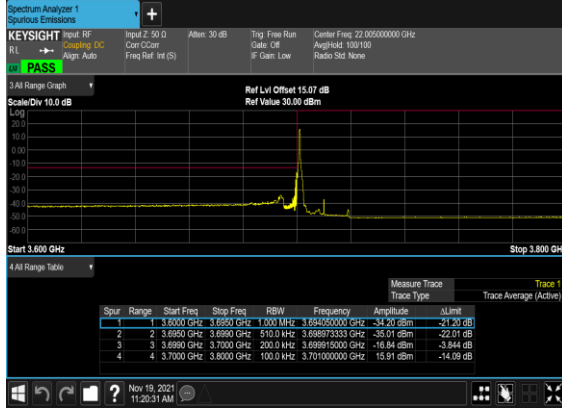
N78(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



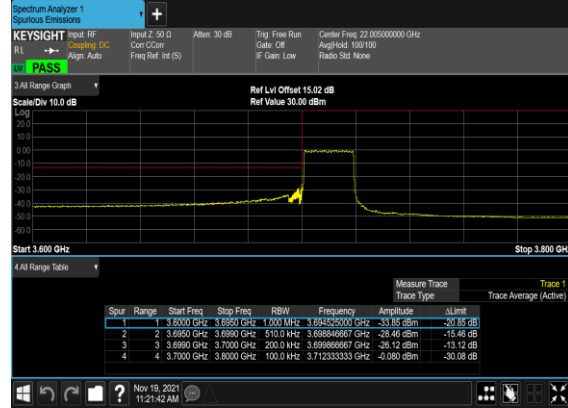
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	647334	3710.01	CP-OFDM QPSK	1@0	see graph	PASS
78	30	20	647334	3710.01	CP-OFDM QPSK	51@0	see graph	PASS
78	30	20	652666	3789.99	CP-OFDM QPSK	1@50	see graph	PASS
78	30	20	652666	3789.99	CP-OFDM QPSK	51@0	see graph	PASS
78	30	60	648668	3730.02	CP-OFDM QPSK	1@0	see graph	PASS
78	30	60	648668	3730.02	CP-OFDM QPSK	162@0	see graph	PASS
78	30	60	651332	3769.98	CP-OFDM QPSK	1@161	see graph	PASS
78	30	60	651332	3769.98	CP-OFDM QPSK	162@0	see graph	PASS
78	30	100	650000	3750.0	CP-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	CP-OFDM QPSK	1@272	see graph	PASS
78	30	100	650000	3750.0	CP-OFDM QPSK	273@0	see graph	PASS

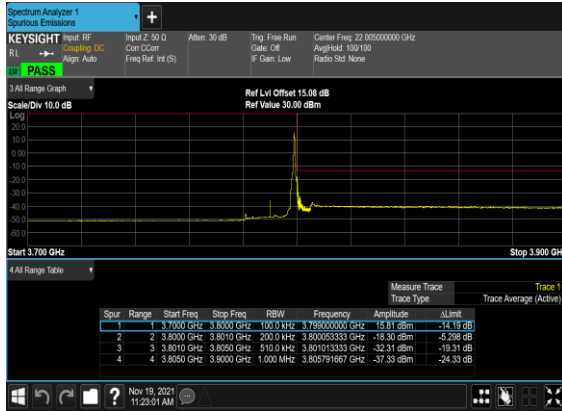
N78(20M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



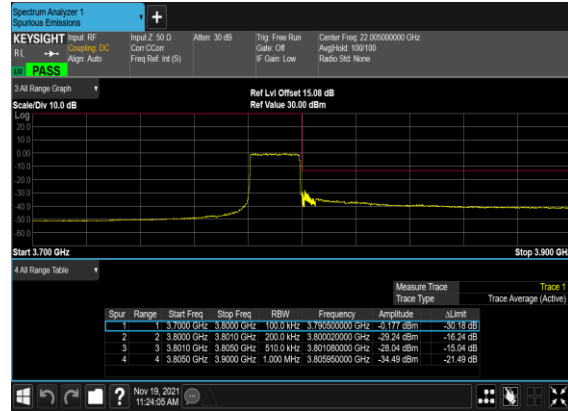
N78(20M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



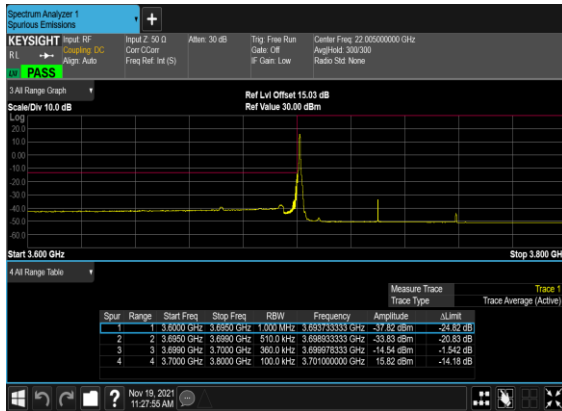
N78(20M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



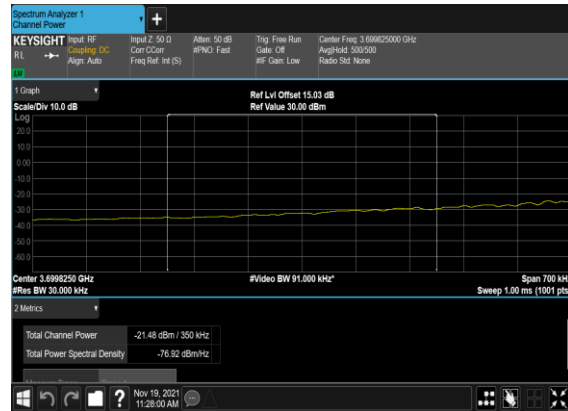
N78(20M)_CP-
OFDM_QPSK_Outer_Full_High_CH



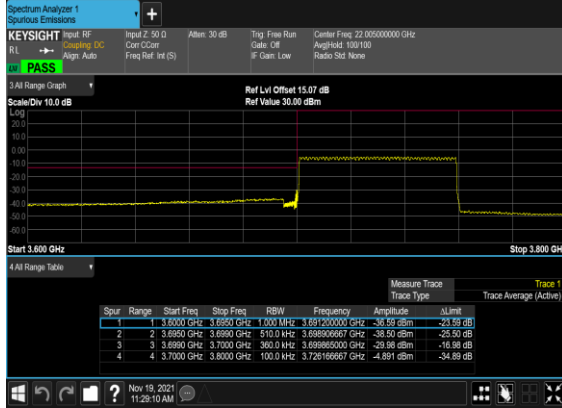
N78(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



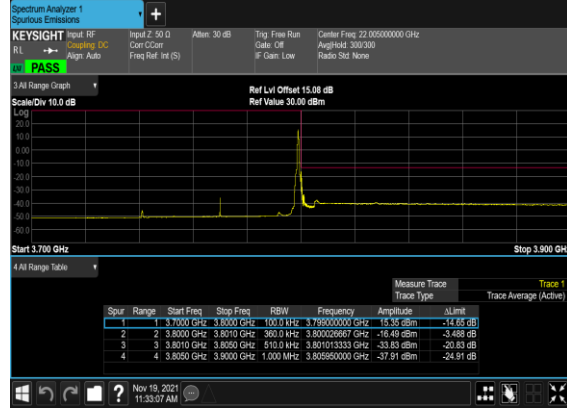
N78(60M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH
_CHP_PASS



N78(60M)_CP- OFDM_QPSK_Outer_Full_Low_CH



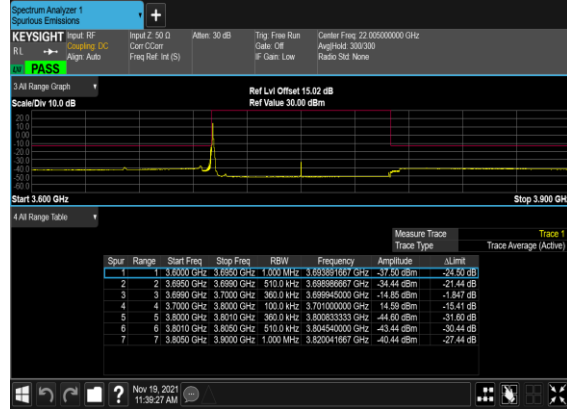
N78(60M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH



N78(60M)_CP- OFDM_QPSK_Outer_Full_High_CH



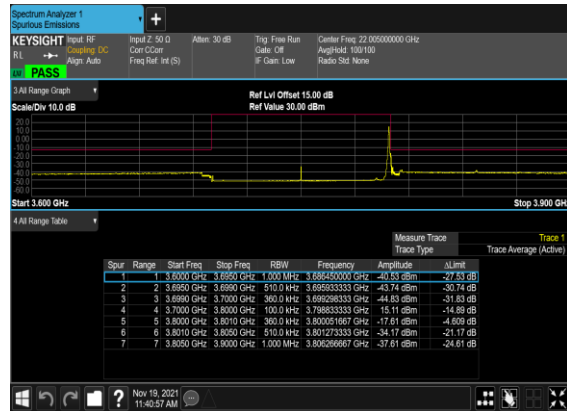
N78(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH



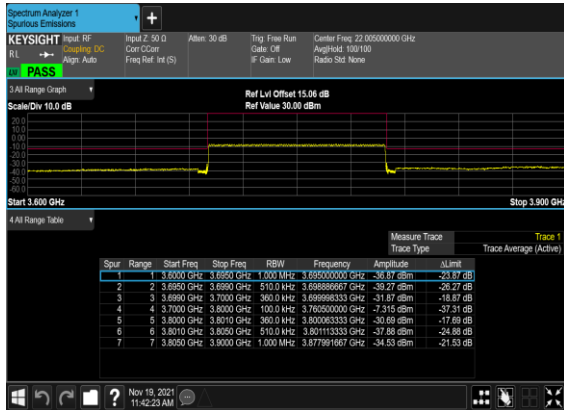
N78(100M)_CP- OFDM_QPSK_Edge_1RB_Left_Mid_CH _CHP_PASS



N78(100M)_CP- OFDM_QPSK_Edge_1RB_Right_Mid_CH



N78(100M)_CP- OFDM_QPSK_Outer_Full_Mid_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna combinations for EN-DC mode, we choose the worst antenna mode to test.

SA n77 / NR 100MHz / QPSK DFT-s-OFDM / ANT12								
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)
Middle	7590	-63.50	-13	-50.50	-73.98	2.76	13.24	H
	11376	-52.28	-13	-39.28	-61.87	3.42	13.01	H
	15168	-55.75	-13	-42.75	-65.36	3.83	13.44	H
	7590	-63.16	-13	-50.16	-73.60	2.80	13.24	V
	11376	-54.29	-13	-41.29	-63.84	3.46	13.01	V
	15168	-57.34	-13	-44.34	-66.90	3.88	13.44	V

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

n77 UL MIMO / NR 100MHz / QPSK DFT-s-OFDM / ANT11+12								
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)
Middle	7584	-62.27	-13	-49.27	-72.75	2.76	13.24	H
	11376	-58.49	-13	-45.49	-68.08	3.42	13.01	H
	15168	-58.62	-13	-45.62	-68.23	3.83	13.44	H
	7584	-63.32	-13	-50.32	-73.76	2.80	13.24	V
	11376	-55.99	-13	-42.99	-65.54	3.46	13.01	V
	15168	-58.35	-13	-45.35	-67.91	3.88	13.44	V

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



SA n78 / NR 100MHz / QPSK DFT-s-OFDM / ANT12								
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)
Middle	7410	-63.85	-13	-50.85	-74.33	2.76	13.24	H
	11106	-55.26	-13	-42.26	-64.85	3.42	13.01	H
	14820	-59.80	-13	-46.80	-69.41	3.83	13.44	H
	7410	-64.15	-13	-51.15	-74.59	2.80	13.24	V
	11106	-55.65	-13	-42.65	-65.20	3.46	13.01	V
	14820	-59.88	-13	-46.88	-69.44	3.88	13.44	V

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

EN-DC_2A_n78 / LTE 10MHz + NR 100MHz / QPSK / ANT4 (LTE) & ANT12(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)
Middle	7410	-63.37	-13	-50.37	-73.85	2.76	13.24	H
	11106	-53.70	-13	-40.70	-63.29	3.42	13.01	H
	14820	-59.52	-13	-46.52	-69.13	3.83	13.44	H
	7410	-63.63	-13	-50.63	-74.07	2.80	13.24	V
	11106	-53.78	-13	-40.78	-63.33	3.46	13.01	V
	14820	-59.85	-13	-46.85	-69.41	3.88	13.44	V

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

EN-DC_38A_n78 / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT12(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)
Middle	7410	-63.74	-13	-50.74	-74.22	2.76	13.24	H
	11106	-57.04	-13	-44.04	-66.63	3.42	13.01	H
	14820	-59.40	-13	-46.40	-69.01	3.83	13.44	H
	7410	-63.59	-13	-50.59	-74.03	2.80	13.24	V
	11106	-55.93	-13	-42.93	-65.48	3.46	13.01	V
	14820	-59.25	-13	-46.25	-68.81	3.88	13.44	V

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



EN-DC_41A_n78 / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT12(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)
Middle	7410	-62.74	-13	-49.74	-73.22	2.76	13.24	H
	11106	-55.97	-13	-42.97	-65.56	3.42	13.01	H
	14820	-58.50	-13	-45.50	-68.11	3.83	13.44	H
	7410	-63.47	-13	-50.47	-73.91	2.80	13.24	V
	11106	-54.93	-13	-41.93	-64.48	3.46	13.01	V
	14820	-58.25	-13	-45.25	-67.81	3.88	13.44	V

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

EN-DC_5A_n78 / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT12(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)
Middle	7410	-63.29	-13	-50.29	-73.77	2.76	13.24	H
	11106	-58.02	-13	-45.02	-67.61	3.42	13.01	H
	14820	-59.43	-13	-46.43	-69.04	3.83	13.44	H
	7410	-63.43	-13	-50.43	-73.87	2.80	13.24	V
	11106	-58.00	-13	-45.00	-67.55	3.46	13.01	V
	14820	-59.56	-13	-46.56	-69.12	3.88	13.44	V

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

EN-DC_66A_n78 / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT12(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)
Middle	7410	-63.58	-13	-50.58	-74.06	2.76	13.24	H
	11106	-58.59	-13	-45.59	-68.18	3.42	13.01	H
	14808	-58.00	-13	-45.00	-67.61	3.83	13.44	H
	7410	-63.60	-13	-50.60	-74.04	2.80	13.24	V
	11106	-58.57	-13	-45.57	-68.12	3.46	13.01	V
	14808	-56.75	-13	-43.75	-66.31	3.88	13.44	V

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



EN-DC_7A_n78 / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT12(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)
Middle	7410	-63.84	-13	-50.84	-74.32	2.76	13.24	H
	11106	-54.22	-13	-41.22	-63.81	3.42	13.01	H
	14820	-60.99	-13	-47.99	-70.60	3.83	13.44	H
	7410	-64.27	-13	-51.27	-74.71	2.80	13.24	V
	11106	-56.19	-13	-43.19	-65.74	3.46	13.01	V
	14820	-60.65	-13	-47.65	-70.21	3.88	13.44	V

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

n78 UL MIMO / NR 100MHz / QPSK DFT-s-OFDM / ANT11+12(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)
Middle	7404	-61.99	-13	-48.99	-72.47	2.76	13.24	H
	11106	-56.81	-13	-43.81	-66.40	3.42	13.01	H
	14820	-60.08	-13	-47.08	-69.69	3.83	13.44	H
	7404	-62.51	-13	-49.51	-72.95	2.80	13.24	V
	11106	-56.55	-13	-43.55	-66.10	3.46	13.01	V
	14820	-59.92	-13	-46.92	-69.48	3.88	13.44	V

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