



N30(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_

Mid_CH

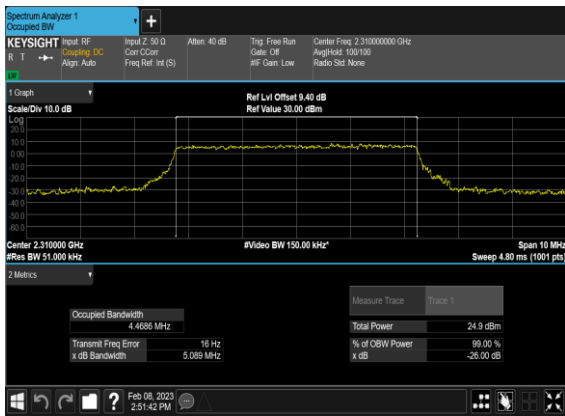


N30(5M)_DFT-s-OFDM_QPSK_Outer_Full_

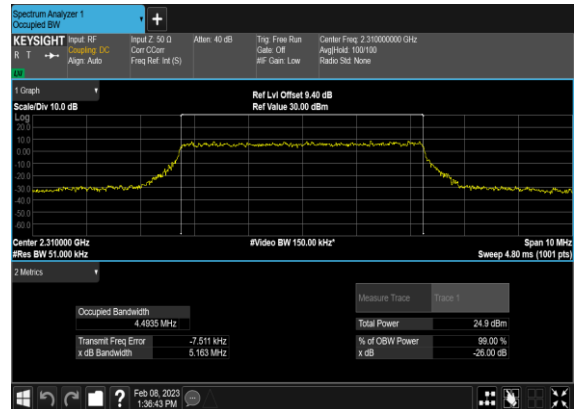
Mid_CH



N30(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



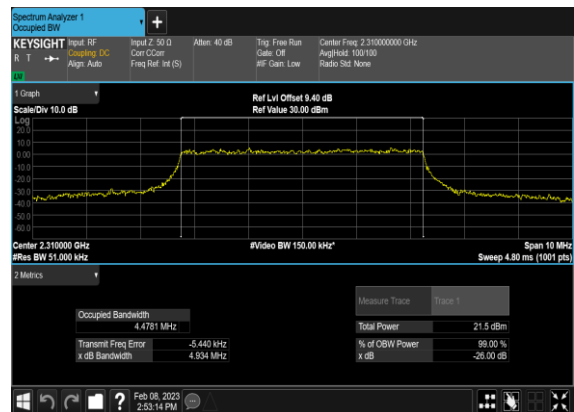
N30(5M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



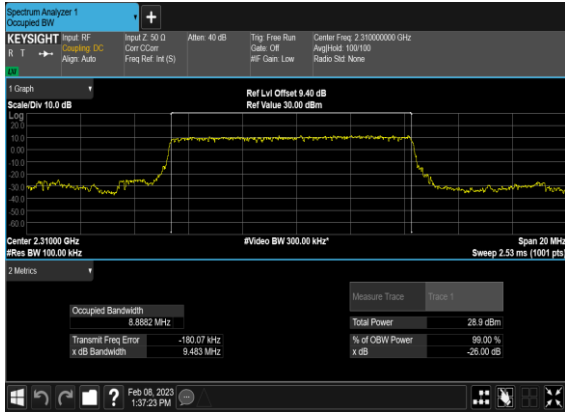
N30(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



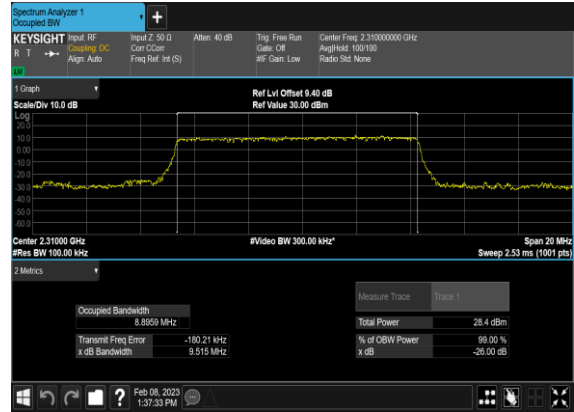
N30(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



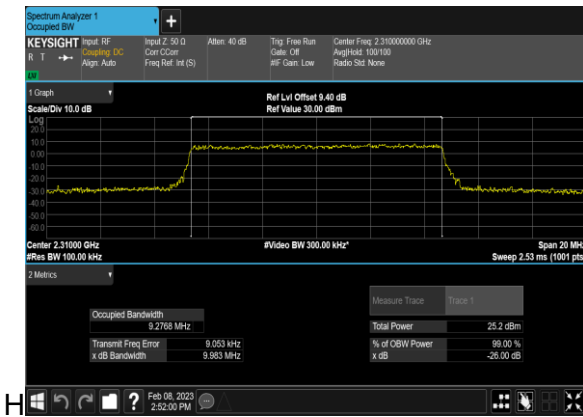
N30(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full
_Low_CH



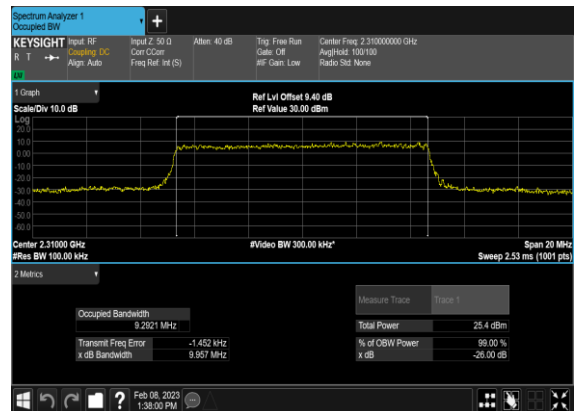
N30(10M)_DFT-s-OFDM_QPSK_Outer_Full_
Low_CH



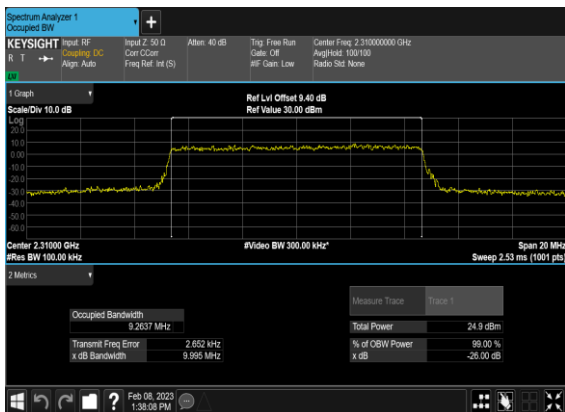
N30(10M)_CP-OFDM_QPSK_Outer_Full_Low_C



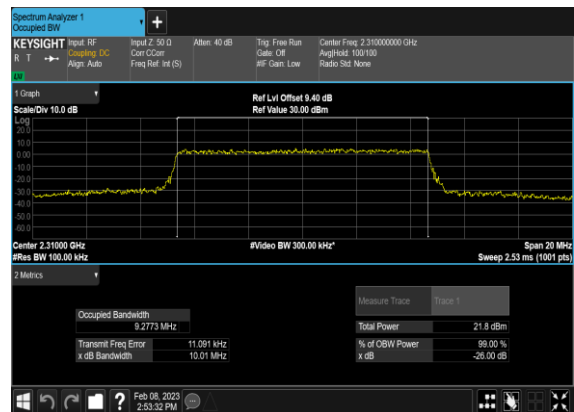
N30(10M)_CP-OFDM_16
QAM_Outer_Full_Low_CH



N30(10M)_CP-OFDM_64
QAM_Outer_Full_Low_CH



N30(10M)_CP-OFDM_256
QAM_Outer_Full_Low_CH





Conducted Spurious Emissions

Table with 9 columns: NR Band, SCS (kHz), Bandwidth (MHz), Arfcn, Freq (MHz), Modulation, RB, Result, Verdict. It contains 28 rows of test data with various modulation types like DFT-s-OFDM BPSK and QPSK.



30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left
_Low_CH

N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left
_Low_CH



N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Lef
t_Low_CH

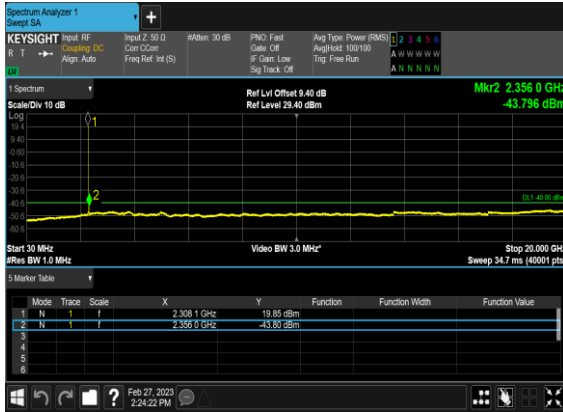
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Lef
t_Low_CH





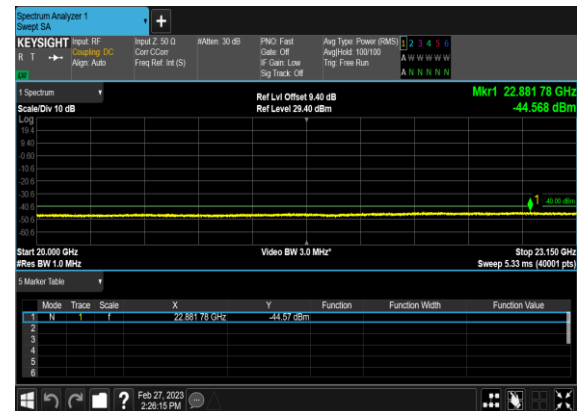
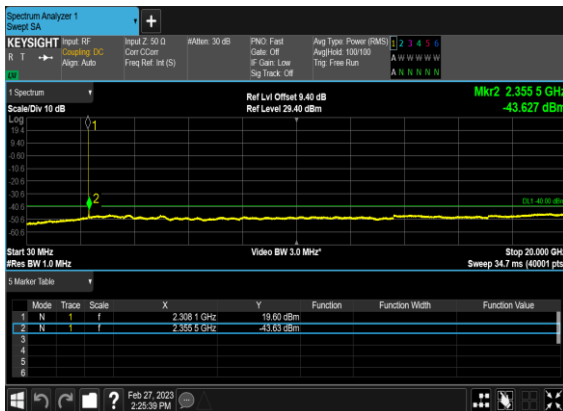
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left
_Mid_CH

N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left
_Mid_CH



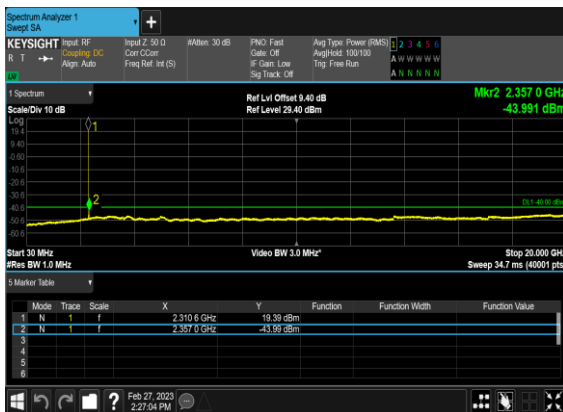
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Lef
t_Mid_CH

N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Lef
t_Mid_CH

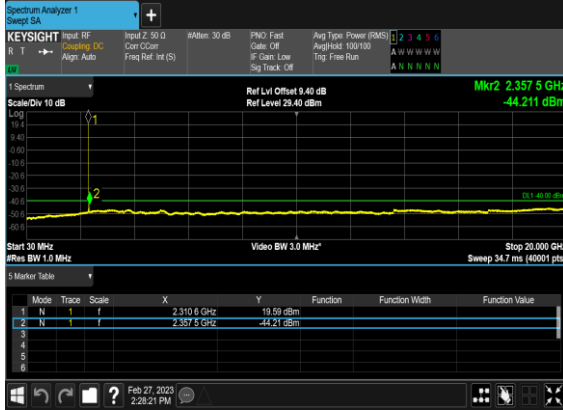


N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left
_High_CH

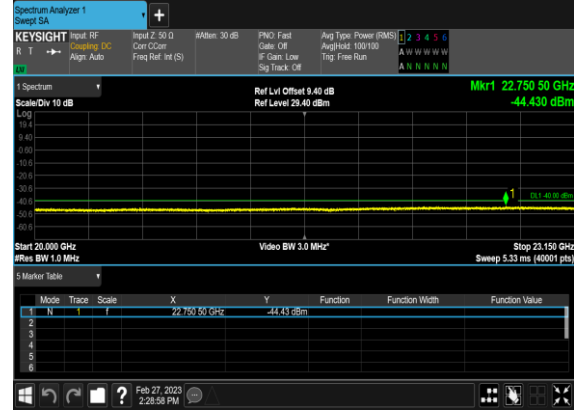
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left
_High_CH



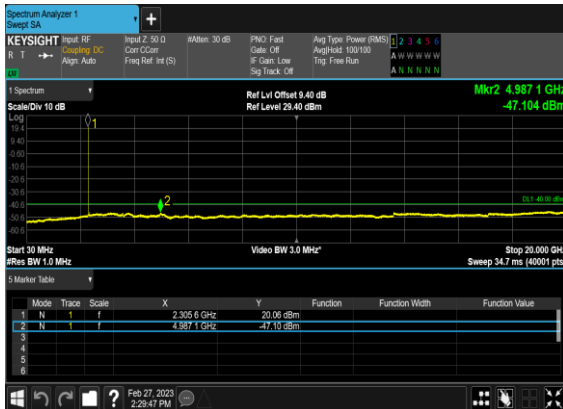
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Lef
t_High_CH



N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Lef
t_High_CH



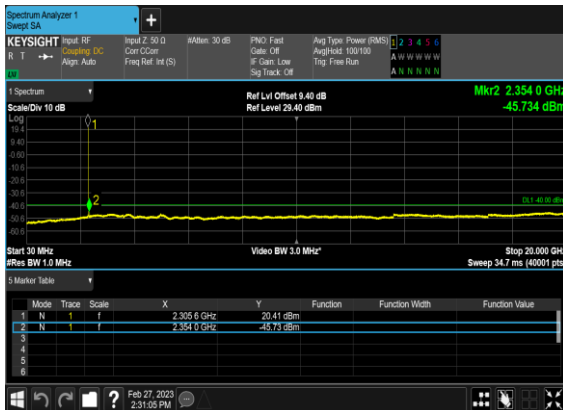
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Le
ft_Low_CH



N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Le
ft_Low_CH



N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_L
eft_Low_CH



N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_L
eft_Low_CH

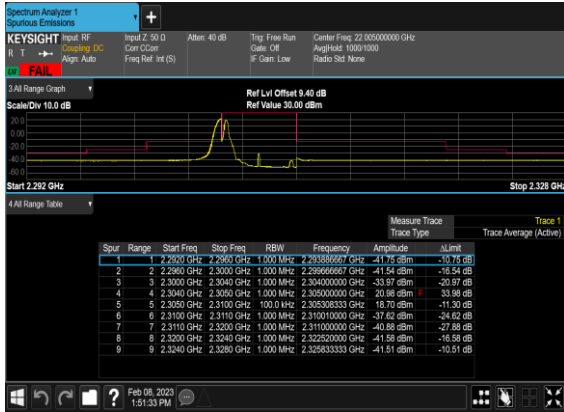




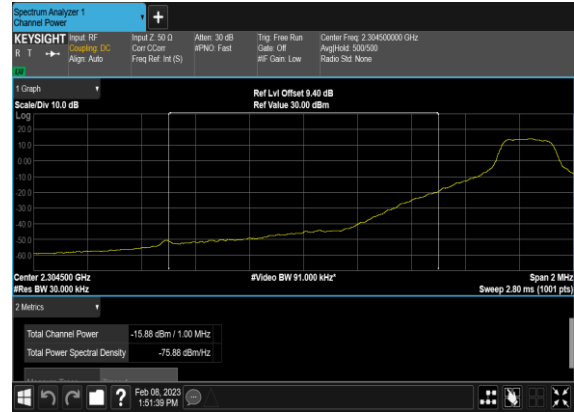
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
30	15	5	461500	2307.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	5	461500	2307.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	5	461500	2307.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
30	15	5	461500	2307.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
30	15	5	462500	2312.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
30	15	5	462500	2312.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
30	15	5	462500	2312.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
30	15	5	462500	2312.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
30	15	10	462000	2310.0	DFT-s-OFDM QPSK	50@0	see graph	PASS

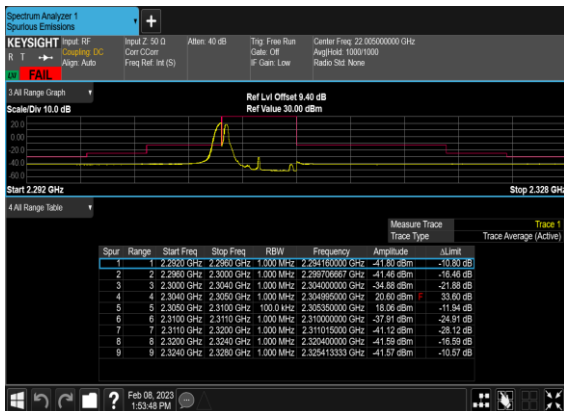
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_
Low_CH



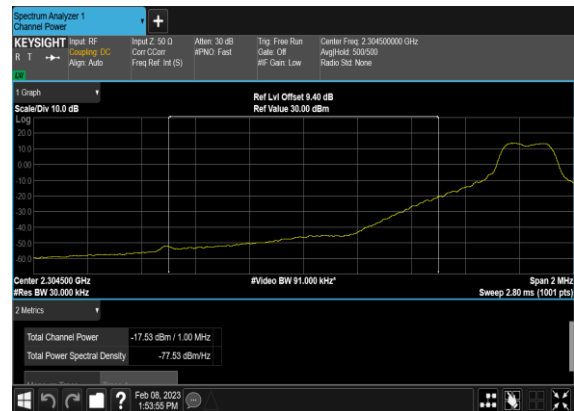
N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_
CH_CHP_PASS



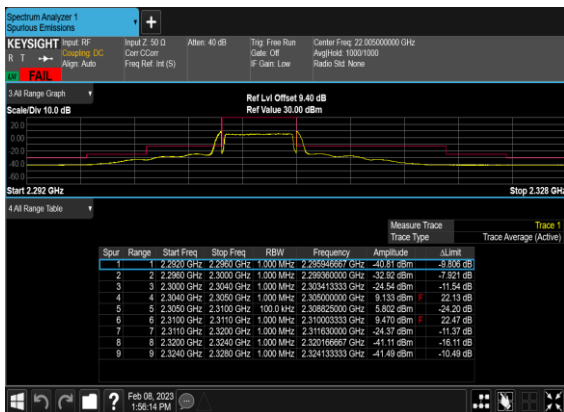
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_
Low_CH



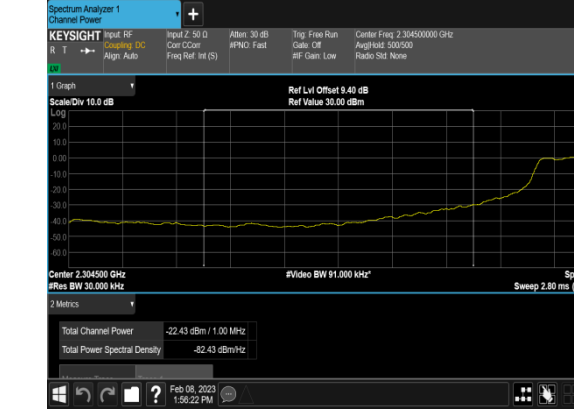
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_
CH_CHP_PASS



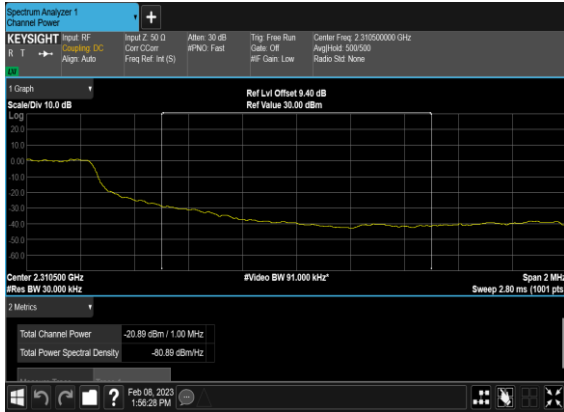
N30(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_
CH



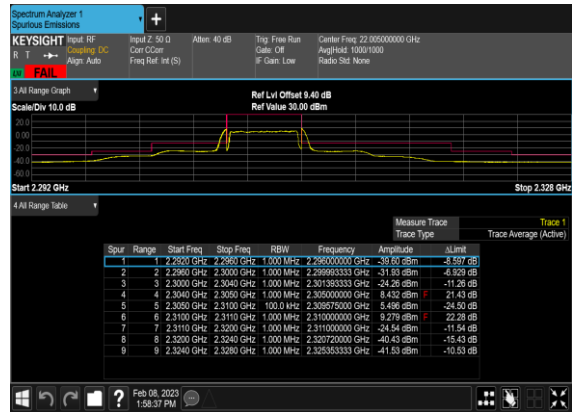
N30(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_
CHP_PASS



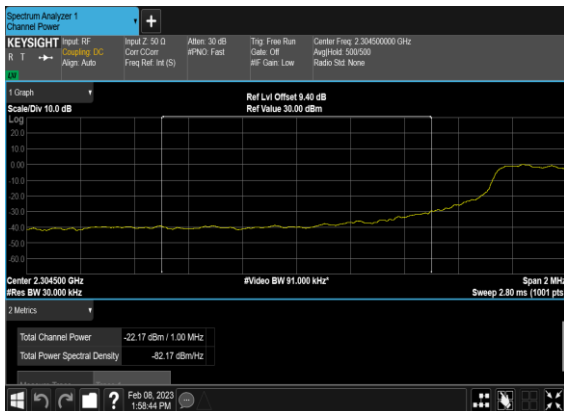
N30(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_
CH_CHP_PASS



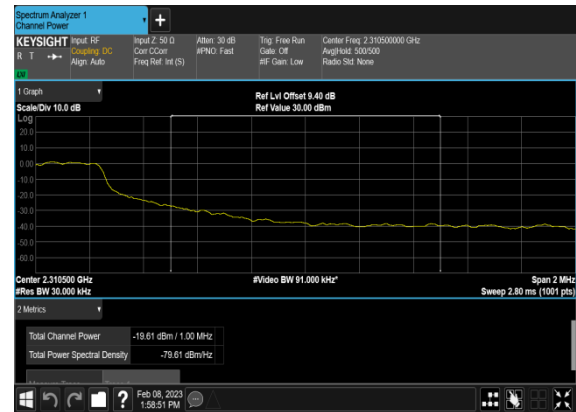
N30(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



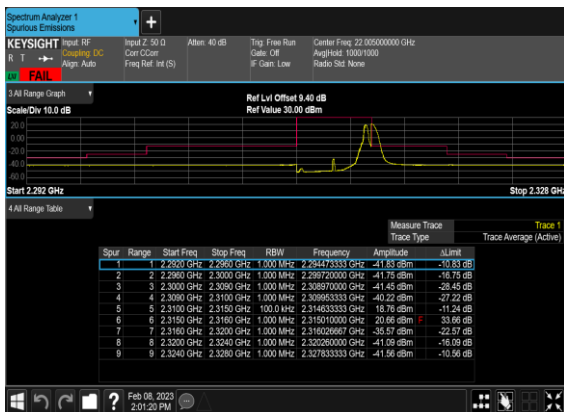
N30(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_
CH_CHP_PASS



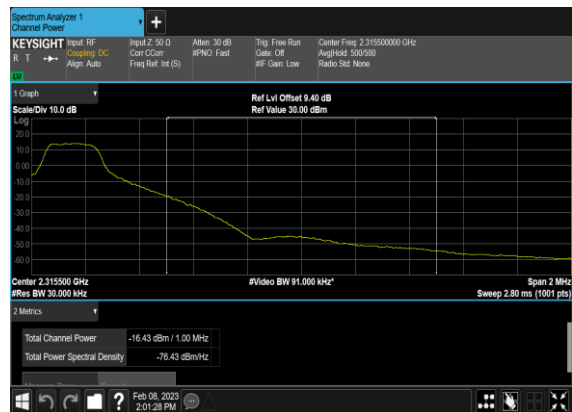
N30(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_c
HP_PASS



N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right
_High_CH



N30(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High
_CH_CHP_PASS

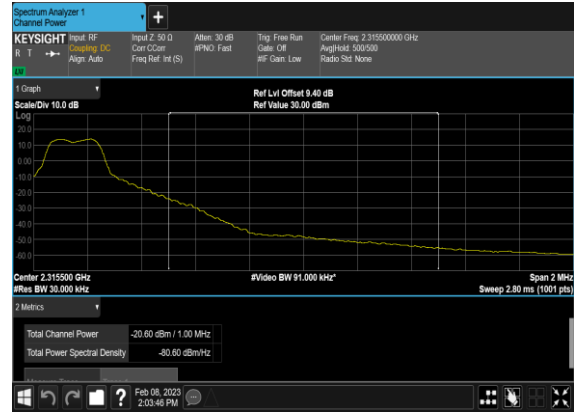




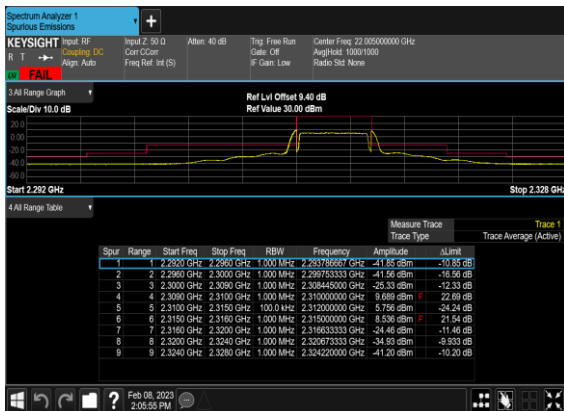
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



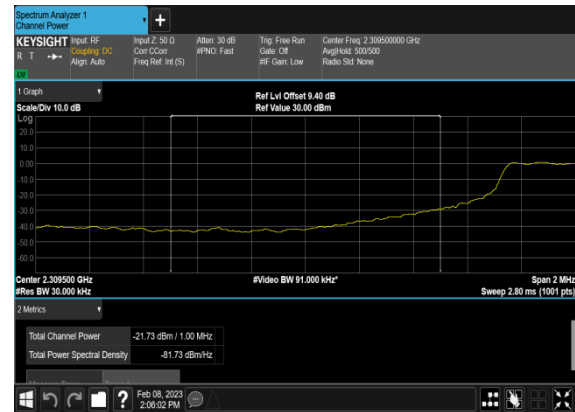
N30(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_CHP_PASS



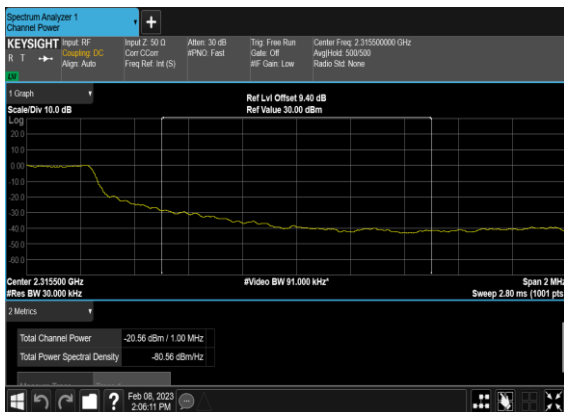
N30(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



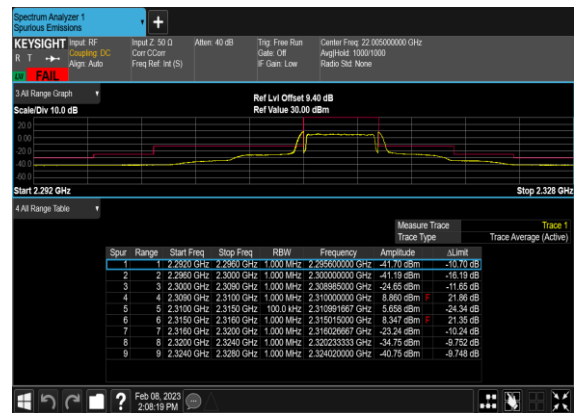
N30(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH_CHP_PASS



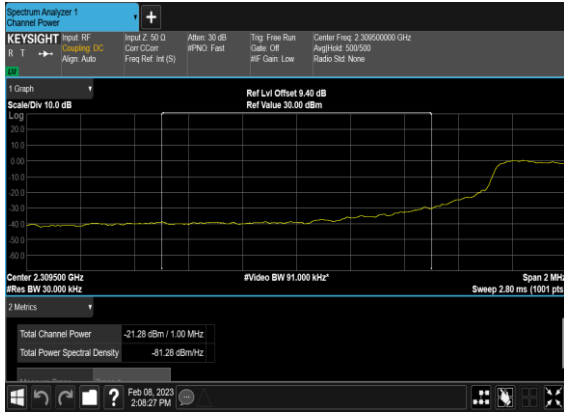
N30(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH_CHP_PASS



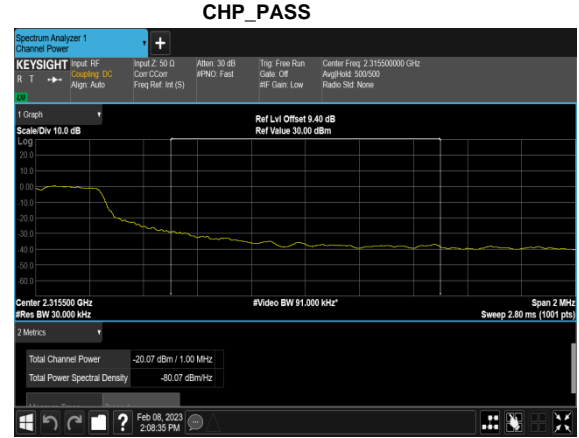
N30(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



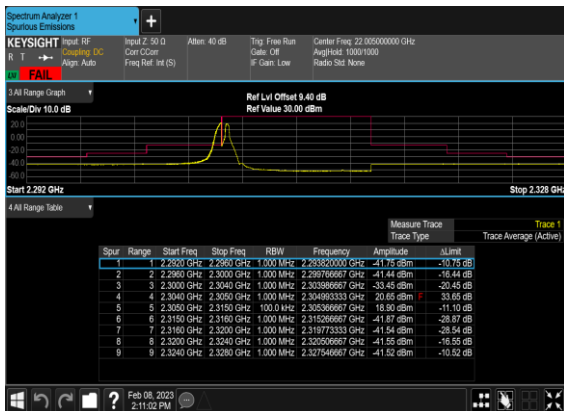
N30(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_
CH_CHP_PASS



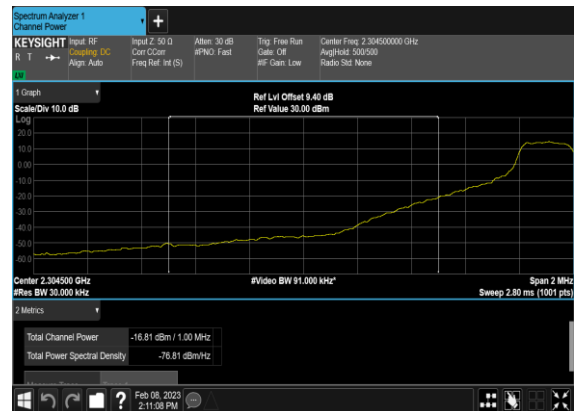
N30(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH_
CHP_PASS



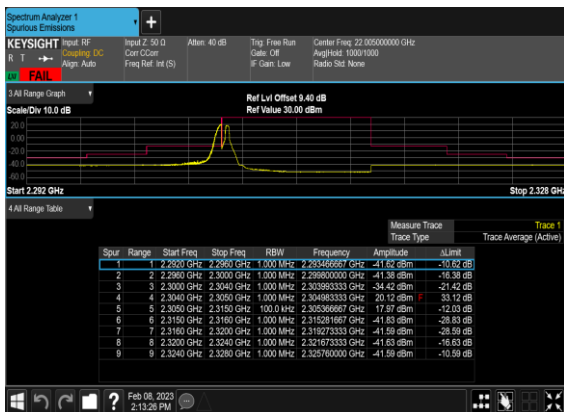
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left
_Low_CH



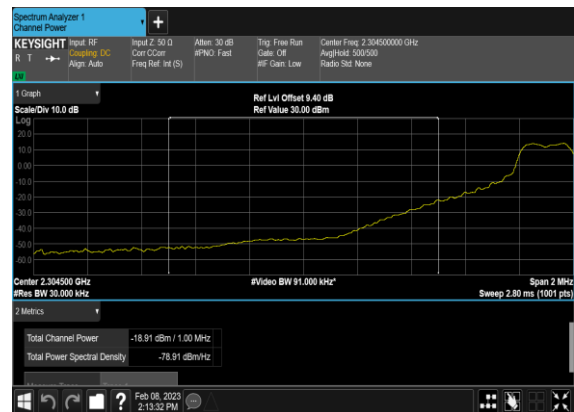
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low
_CH_CHP_PASS



N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left
_Low_CH



N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low
_CH_CHP_PASS

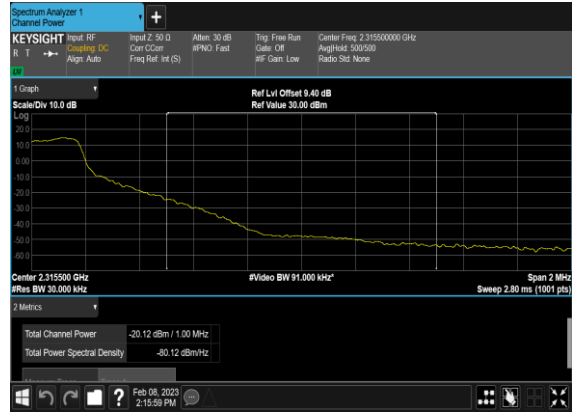




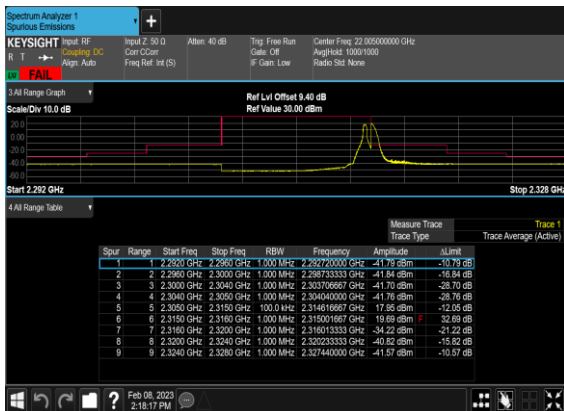
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Righ
t_Low_CH



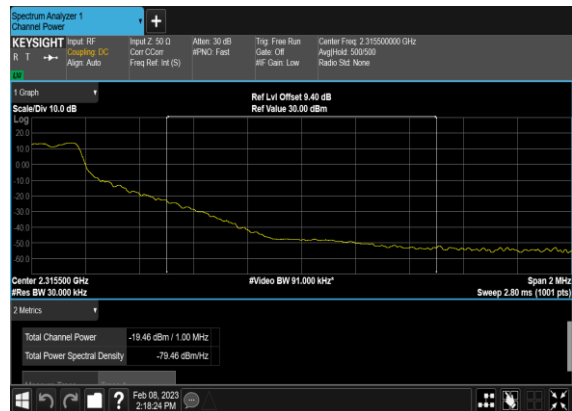
N30(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Lo
w_CH_CHP_PASS



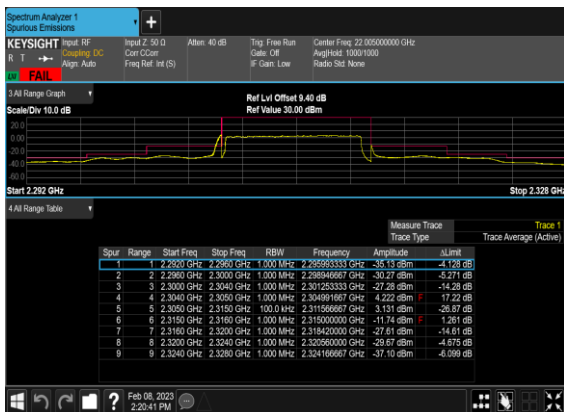
N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Rig
ht_Low_CH



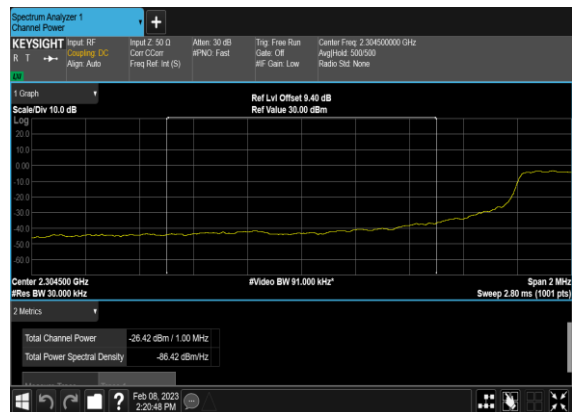
N30(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Lo
w_CH_CHP_PASS



N30(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low
_CH



N30(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH_
CHP_PASS





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Shiwei Wen	Temperature :	22~25°C
		Relative Humidity :	48~52%

RSE Pre-scanned harmonic for the different antenna combinations for EN-DC mode, we choose the worst mode to perform final test.

SA 5G NR n30 / 10MHz / QPSK / Main PA/ ANT1(NR)									
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	4611.00	-59.70	-40	-19.70	-64.65	-65.95	6.45	12.70	H
	6916.50	-58.48	-40	-18.48	-65.98	-61.88	8.40	11.80	H
	9222.00	-58.60	-40	-18.60	-68.12	-60.95	9.65	12.00	H
	4611.00	-59.97	-40	-19.97	-65.05	-66.22	6.45	12.70	V
	6916.50	-57.44	-40	-17.44	-66.04	-60.84	8.40	11.80	V
	9222.00	-56.46	-40	-16.46	-68.21	-58.81	9.65	12.00	V

EN-DC_5A_n30A / LTE 10MHz + NR 10MHz / QPSK / ANT0(LTE) & ANT1(NR)									
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 Band5 Middle	1664.18	-64.12	-13	-51.12	-76.32	-67.37	4.00	9.40	H
	2496.27	-54.78	-13	-41.78	-74.15	-58.35	4.88	10.60	H
	3328.36	-58.67	-13	-45.67	-79.92	-63.60	5.52	12.60	H
	1664.18	-63.14	-13	-50.14	-76.01	-66.39	4.00	9.40	V
	2496.27	-52.73	-13	-39.73	-72.36	-56.30	4.88	10.60	V
	3328.36	-58.64	-13	-45.64	-80.39	-63.57	5.52	12.60	V
NR n30 Middle	4611.00	-59.84	-40	-19.84	-64.79	-66.09	6.45	12.70	H
	6916.50	-57.76	-40	-17.76	-65.26	-61.16	8.40	11.80	H
	9222.00	-57.93	-40	-17.93	-67.45	-60.28	9.65	12.00	H
	4611.00	-59.45	-40	-19.45	-64.53	-65.70	6.45	12.70	V
	6916.50	-56.75	-40	-16.75	-65.35	-60.15	8.40	11.80	V
	9222.00	-56.00	-40	-16.00	-67.75	-58.35	9.65	12.00	V



SA 5G NR n30 / 10MHz / QPSK / Second PA / ANT7(NR)									
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	4611.00	-59.80	-40	-19.80	-64.75	-66.05	6.45	12.70	H
	6916.50	-52.66	-40	-12.66	-60.16	-56.06	8.40	11.80	H
	9222.00	-58.64	-40	-18.64	-68.16	-60.99	9.65	12.00	H
	4611.00	-60.31	-40	-20.31	-65.39	-66.56	6.45	12.70	V
	6916.50	-53.07	-40	-13.07	-61.67	-56.47	8.40	11.80	V
	9222.00	-56.26	-40	-16.26	-68.01	-58.61	9.65	12.00	V

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