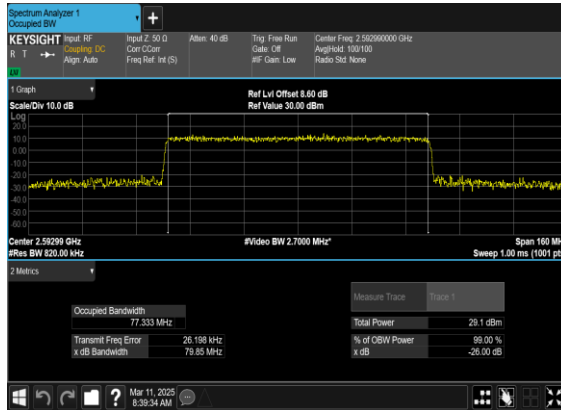
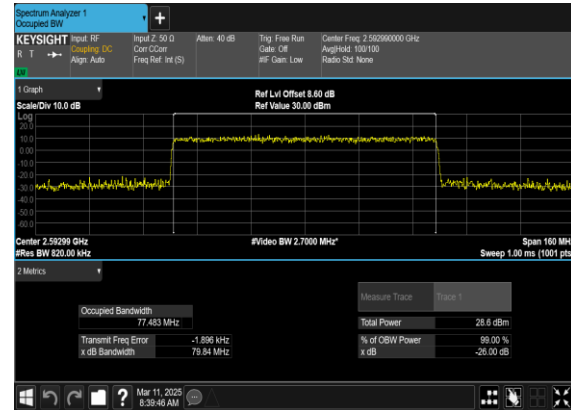




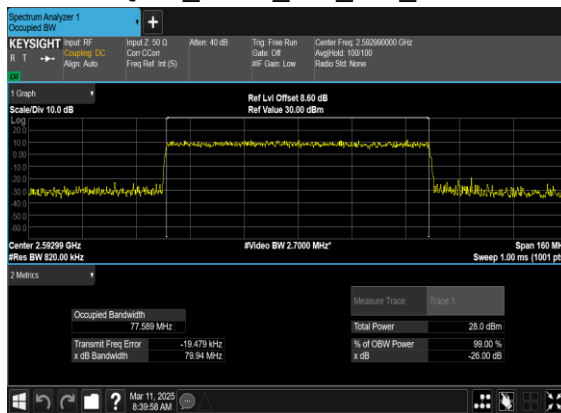
N41(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



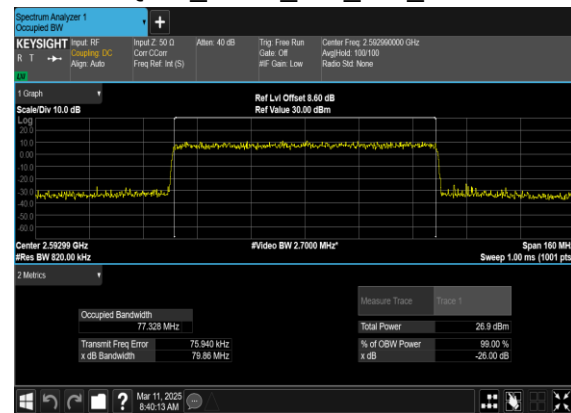
N41(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N41(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

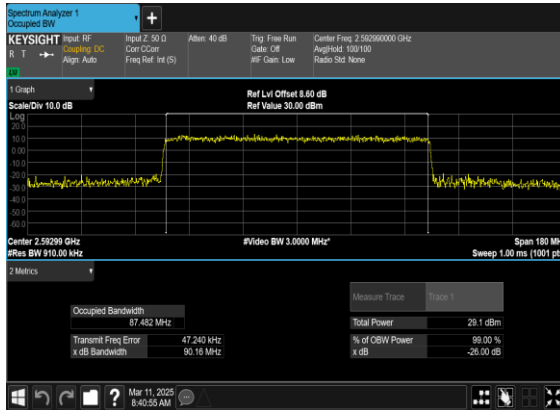


N41(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

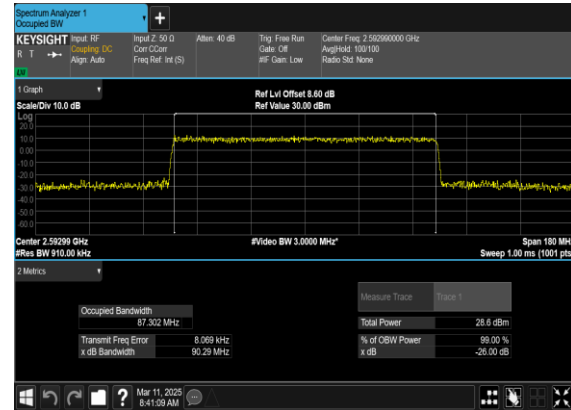




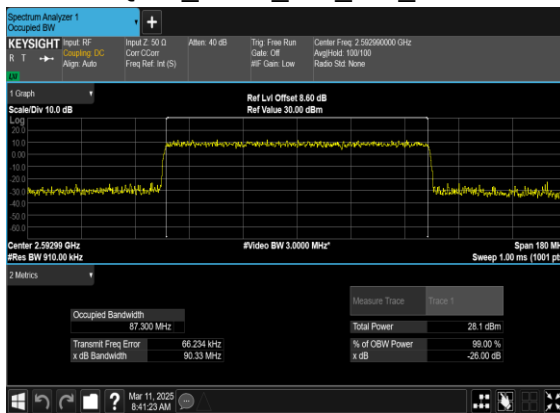
N41(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



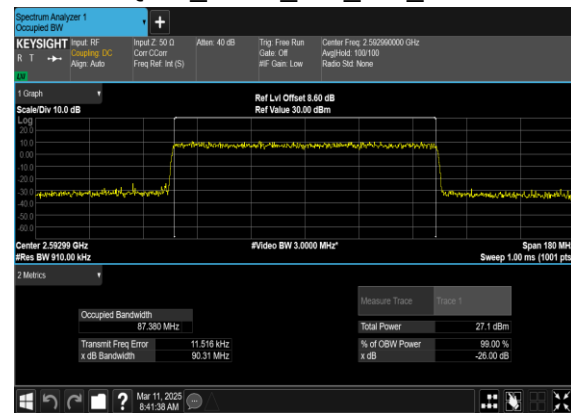
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QAM_Outer_Full_Mid_CH



N41(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

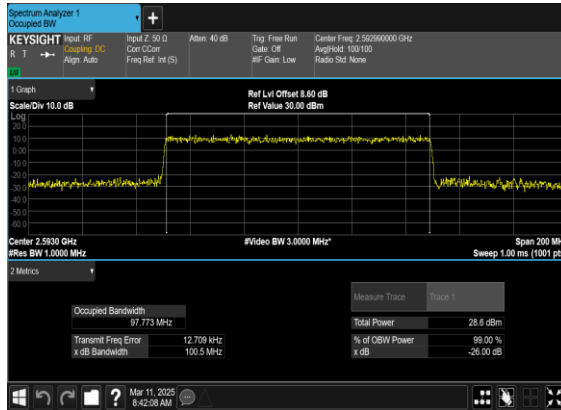


N41(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

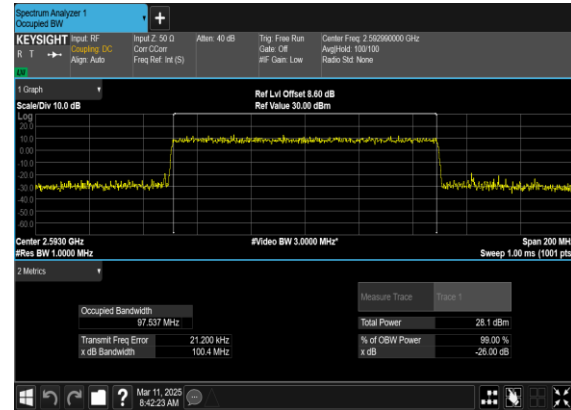




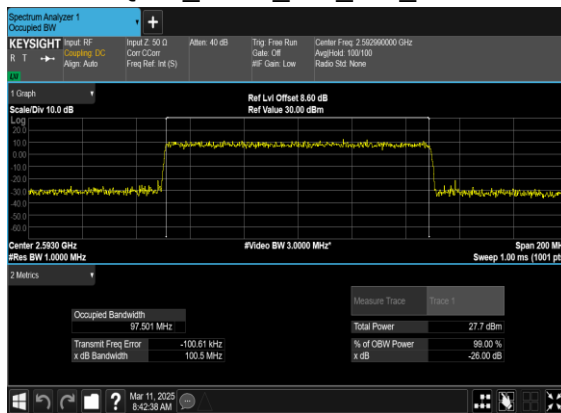
N41(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



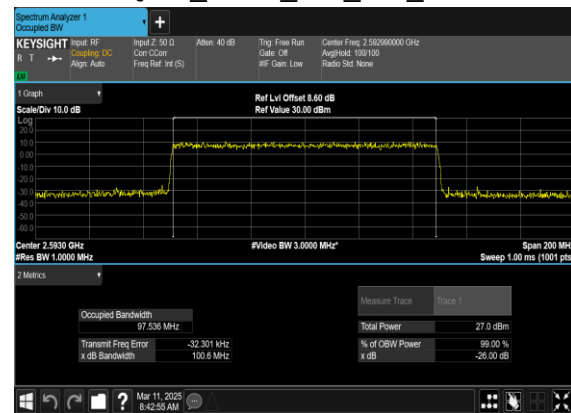
N41(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N41(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N41(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
41	30	20	501204	2506.02	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	20	501204	2506.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	20	501204	2506.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	20	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	20	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	20	535998	2679.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM BPSK	1@0	see graph	---



41	30	60	505200	2526.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	60	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	60	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	60	531996	2659.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	100	509202	2546.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	---



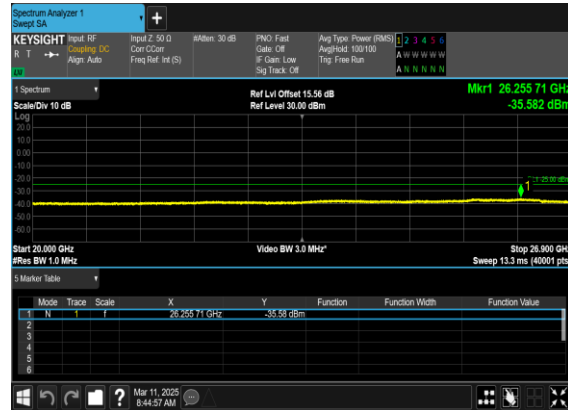
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	100	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	100	518598	2592.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM BPSK	1@0	see graph	---
41	30	100	528000	2640.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	---
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



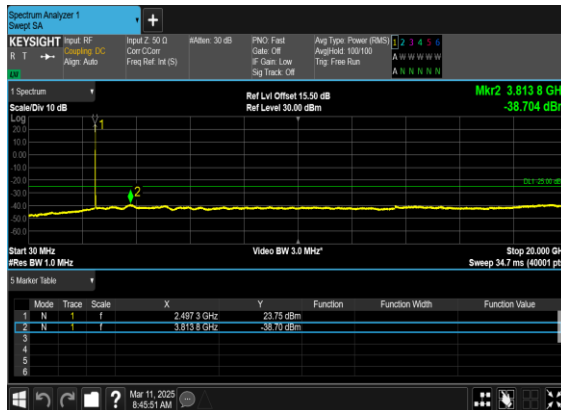
N41(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



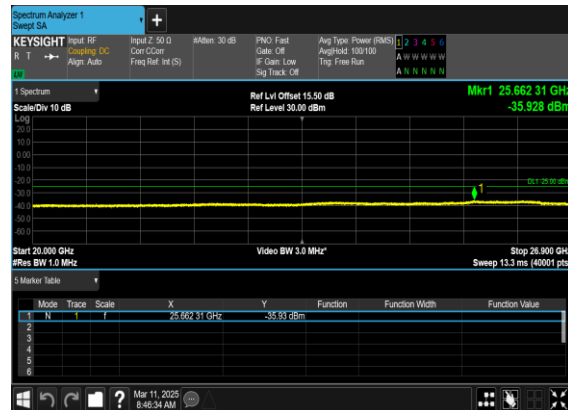
N41(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N41(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

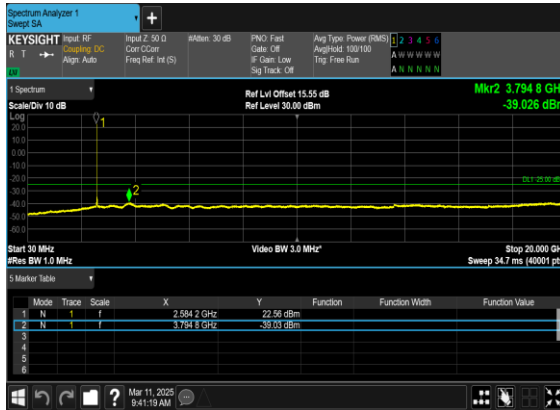


N41(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH





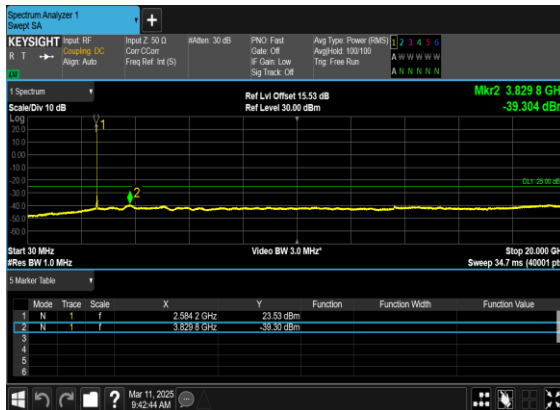
N41(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



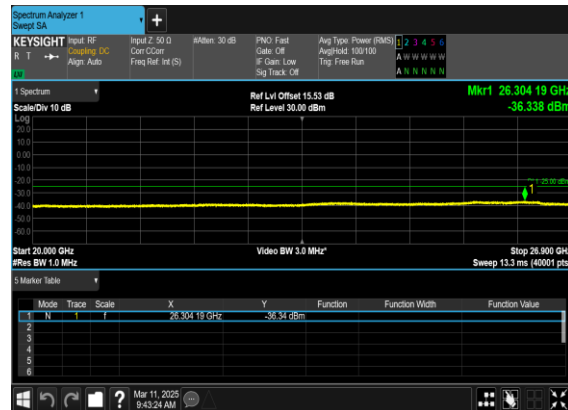
N41(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N41(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

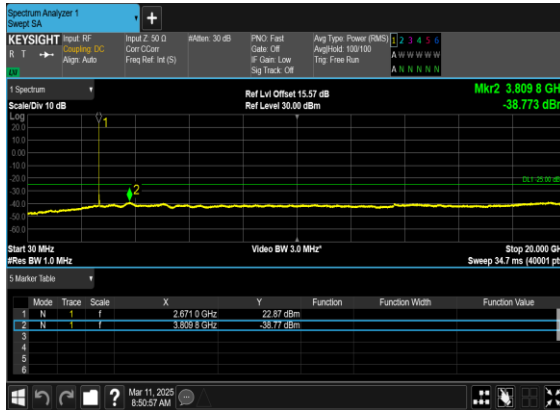


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OFDM_QPSK_Edge_1RB_Left_Mid_CH

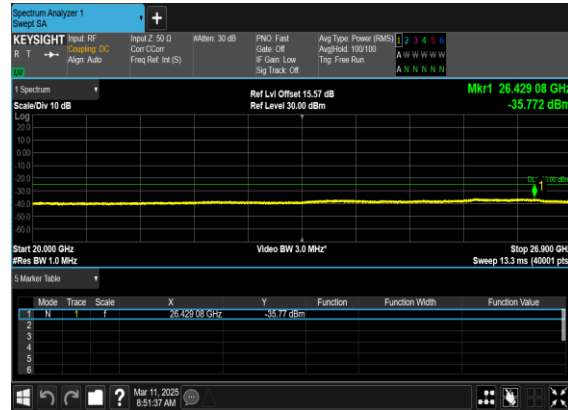




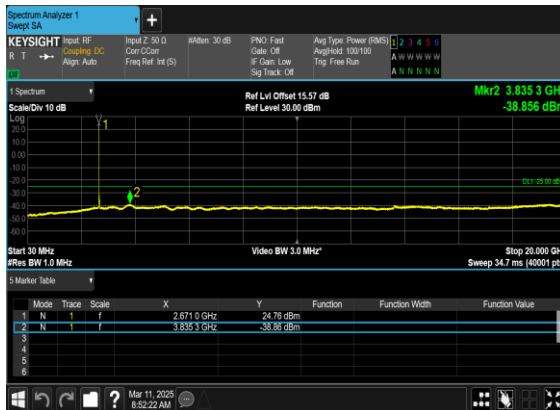
N41(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



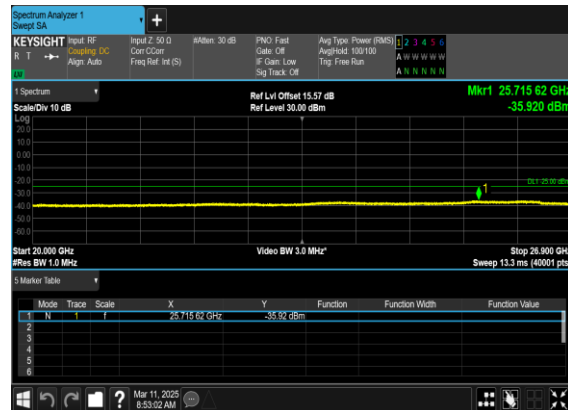
N41(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N41(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

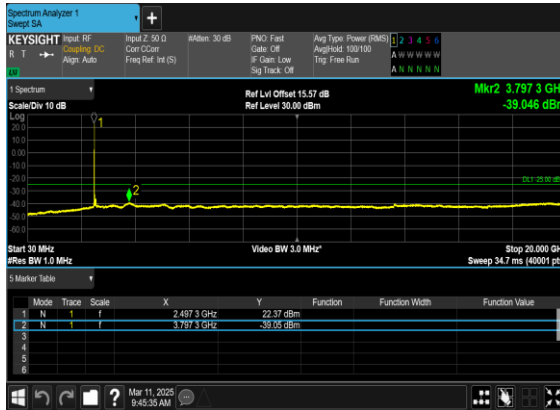


N41(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH





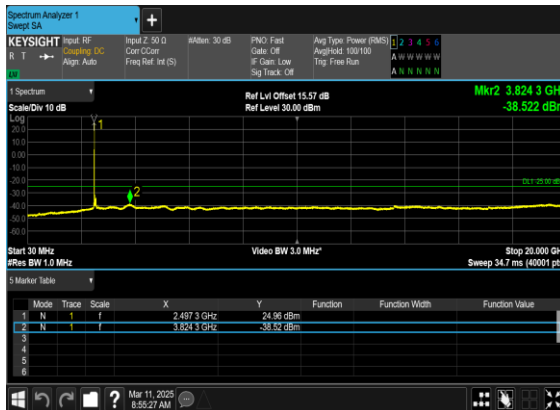
N41(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



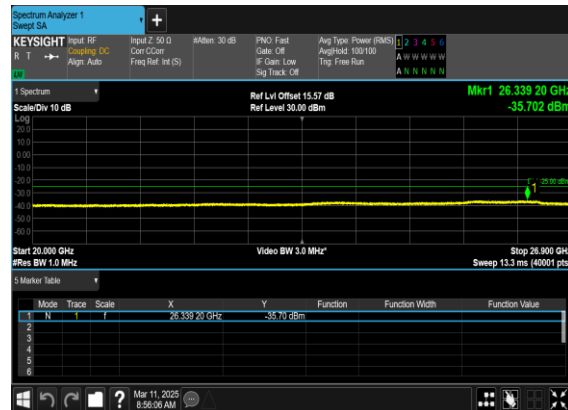
N41(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

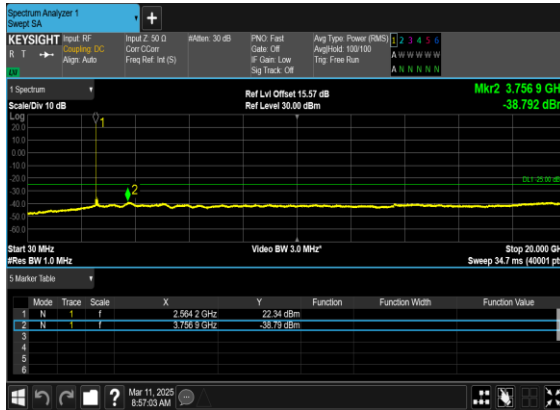


N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

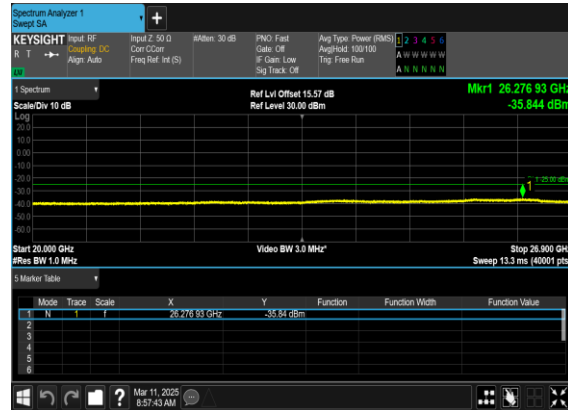




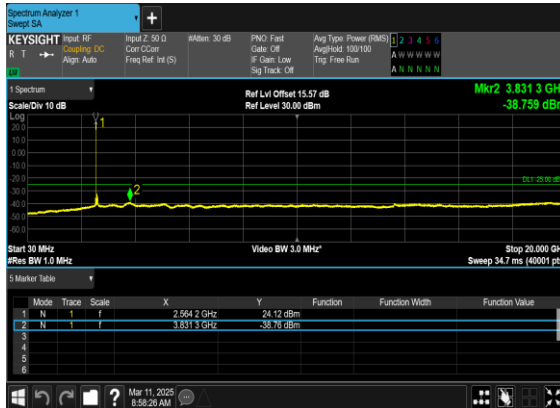
N41(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



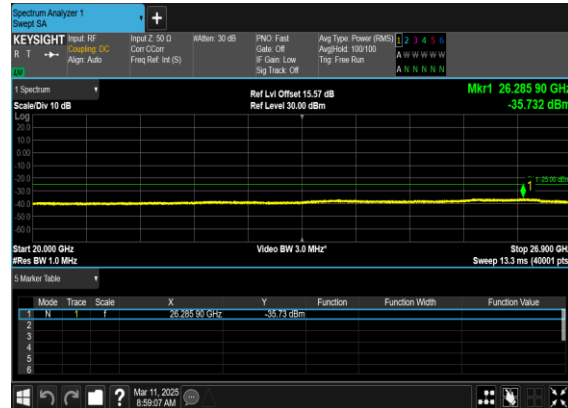
N41(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH





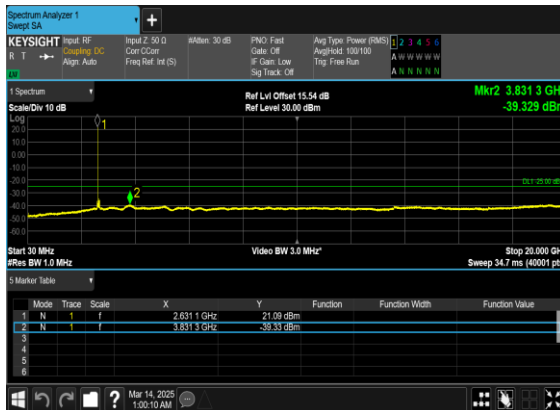
N41(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



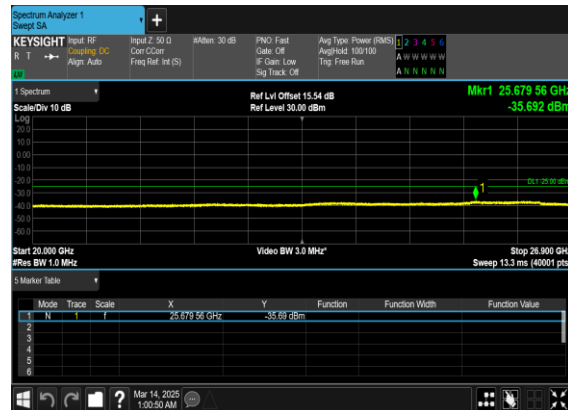
N41(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH





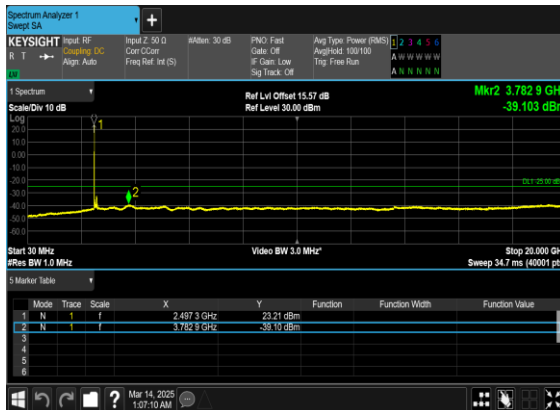
N41(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



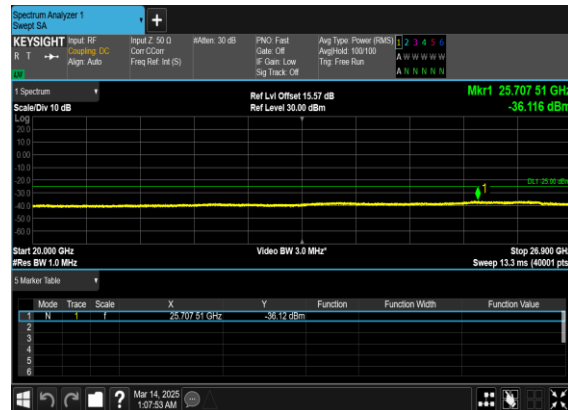
N41(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

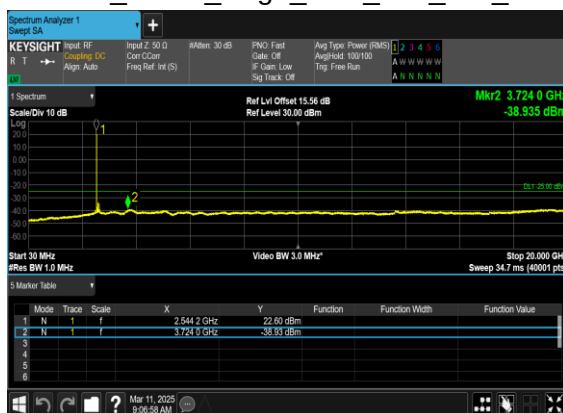


N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH





N41(100M)_DFT-s-OFDM BPSK Edge 1RB Left Mid CH



N41(100M)_DFT-s-OFDM BPSK Edge 1RB Left Mid CH



N41(100M)_DFT-s-OFDM QPSK Edge 1RB Left Mid CH

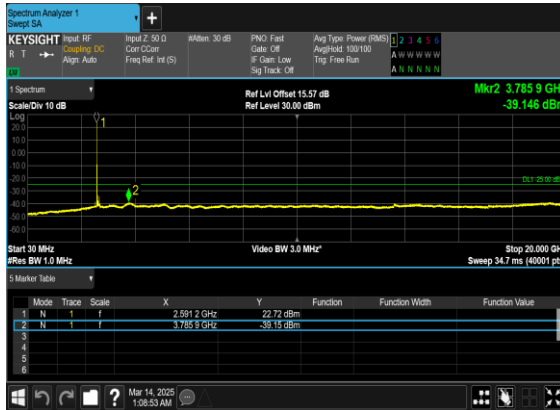


N41(100M)_DFT-s-OFDM QPSK Edge 1RB Left Mid CH





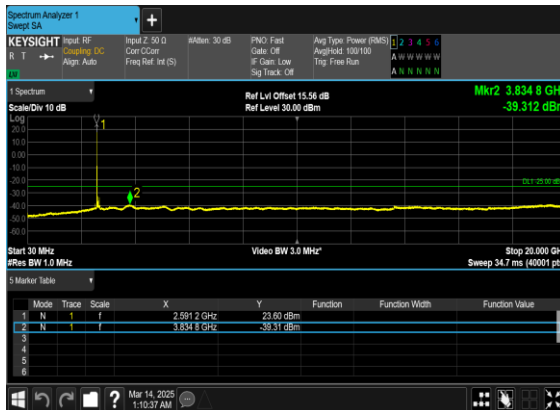
N41(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



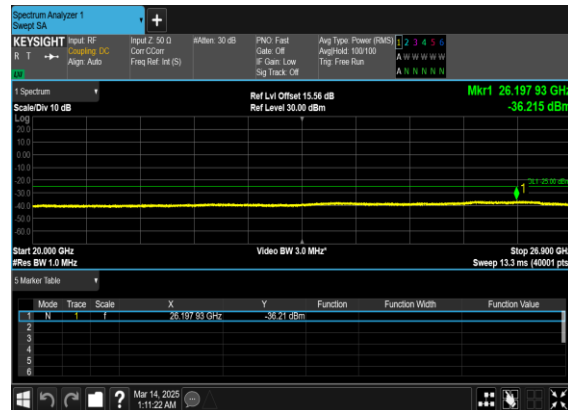
N41(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH





Conducted Band Edge

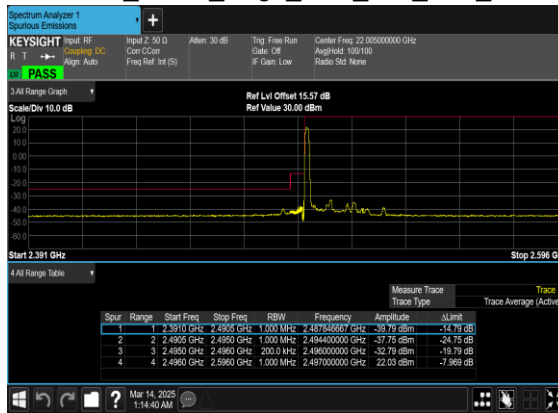
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
41	30	20	501204	2506.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	20	501204	2506.02	DFT-s-OFDM BPSK	50@0	see graph	PASS
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	50@0	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM BPSK	1@50	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@50	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM BPSK	50@0	see graph	PASS
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM BPSK	162@0	see graph	PASS
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	162@0	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM BPSK	1@161	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@161	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM BPSK	162@0	see graph	PASS
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	162@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
41	30	100	509202	2546.01	DFT-s-OFDM BPSK	270@0	see graph	PASS



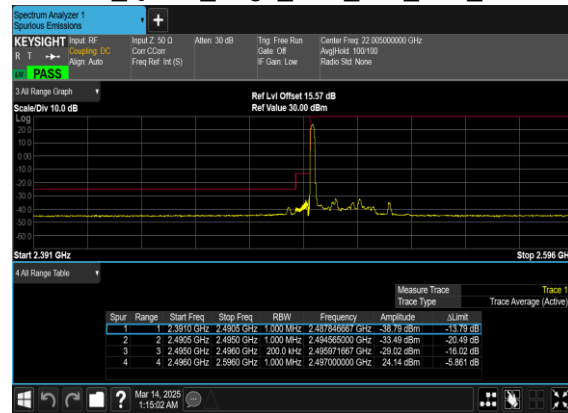
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	270@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	270@0	see graph	PASS



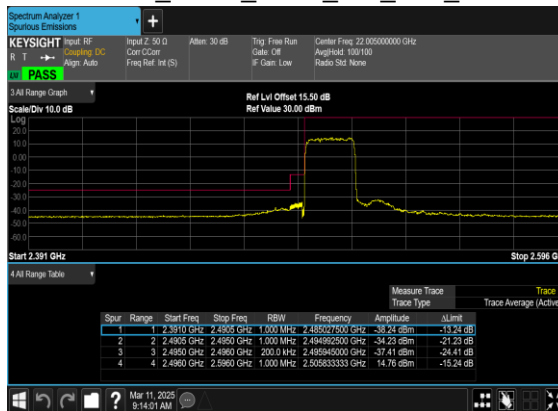
N41(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



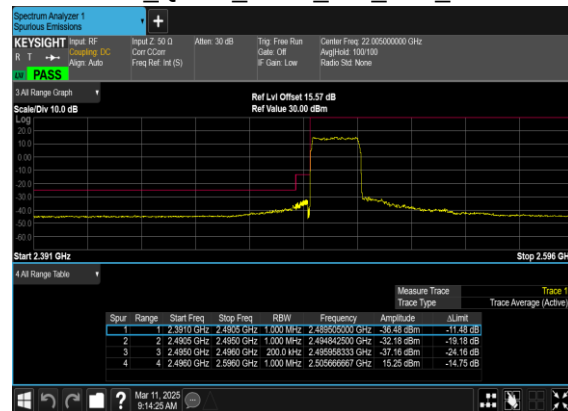
N41(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N41(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

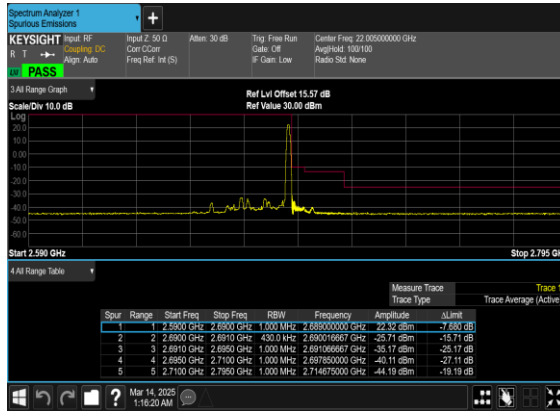


N41(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

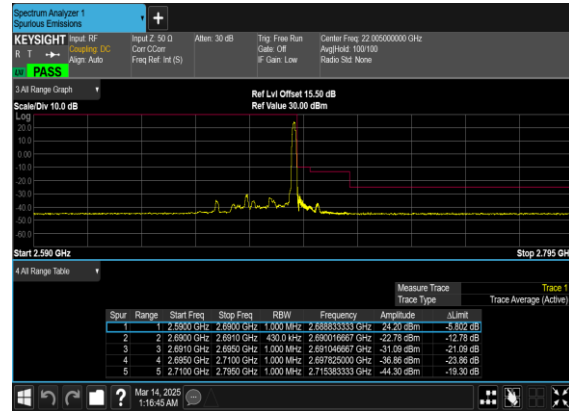




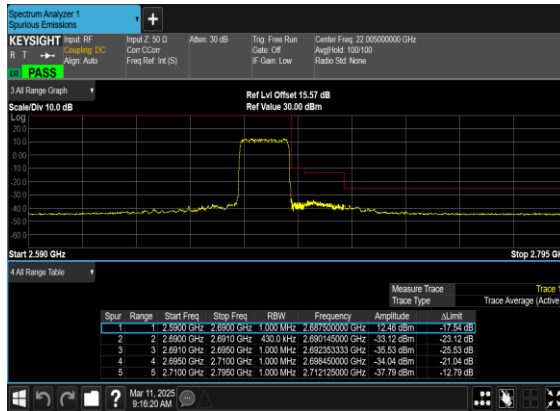
N41(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



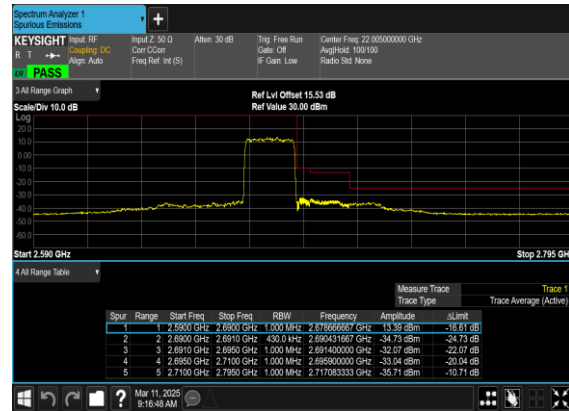
N41(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N41(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

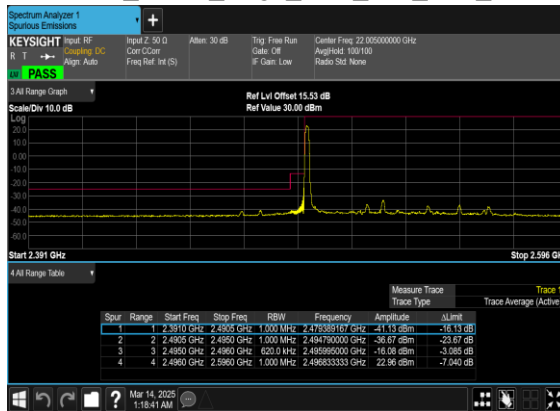


N41(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

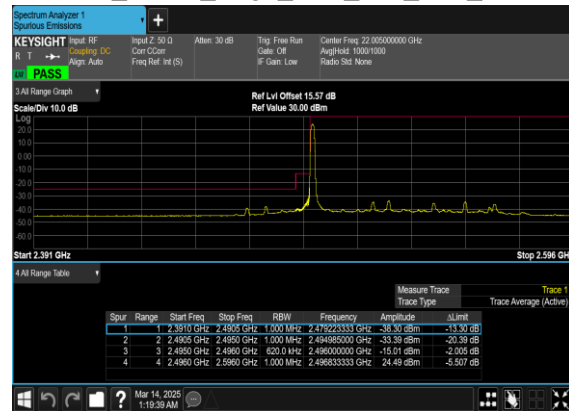




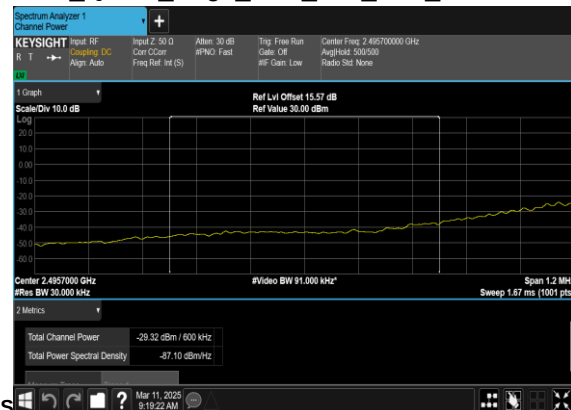
N41(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



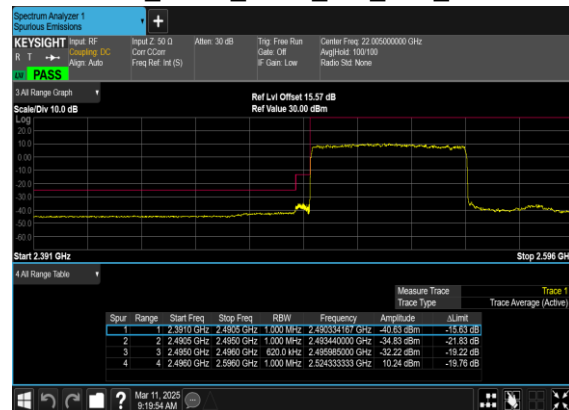
N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PAS

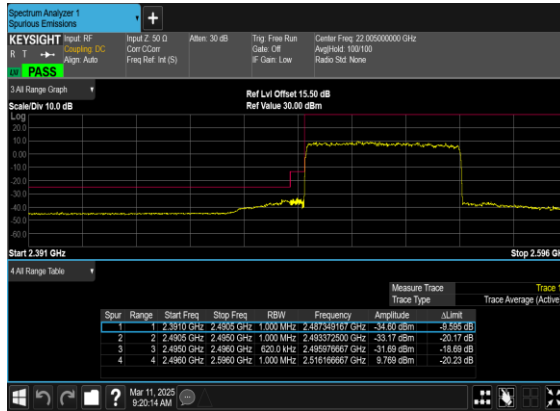


N41(60M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

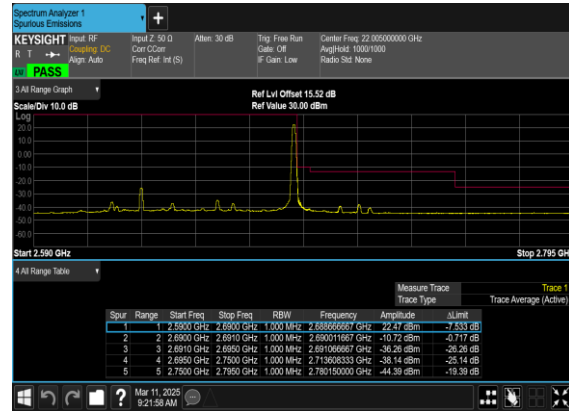




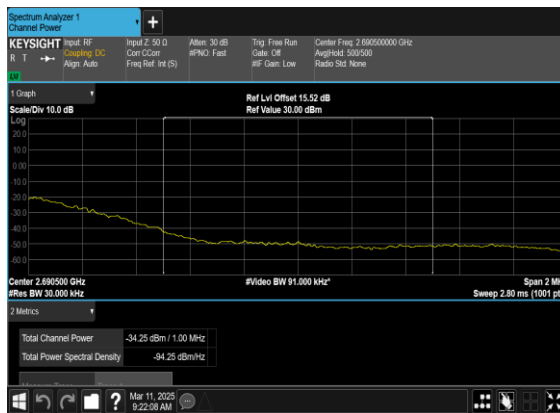
N41(60M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



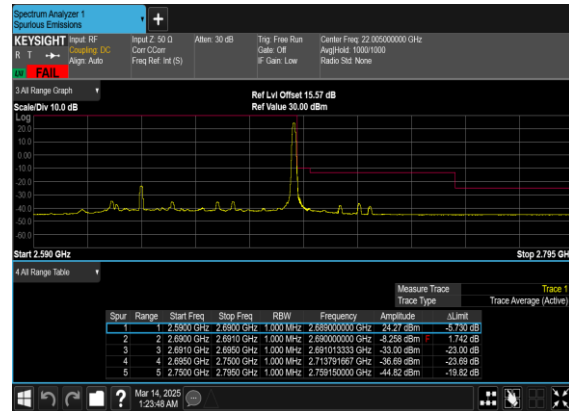
N41(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N41(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_P
ASS

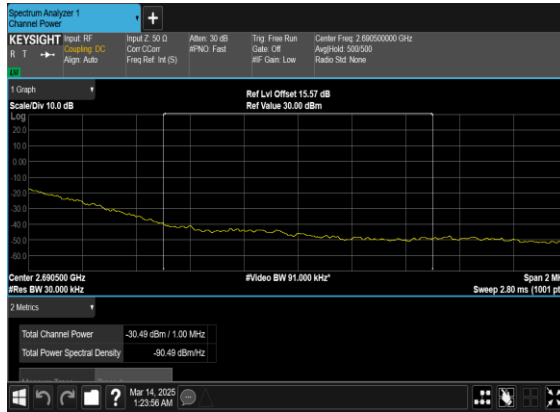


N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

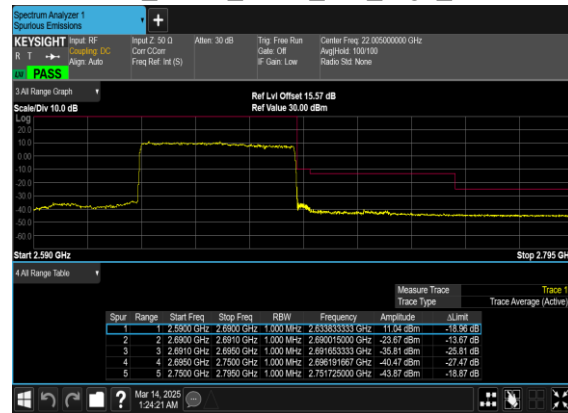




N41(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH_chp_P
ASS



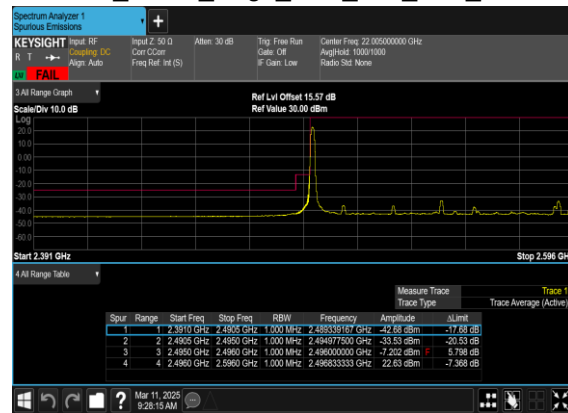
N41(60M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N41(60M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

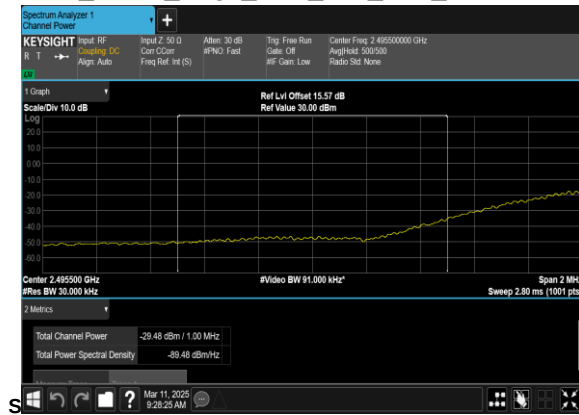


N41(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

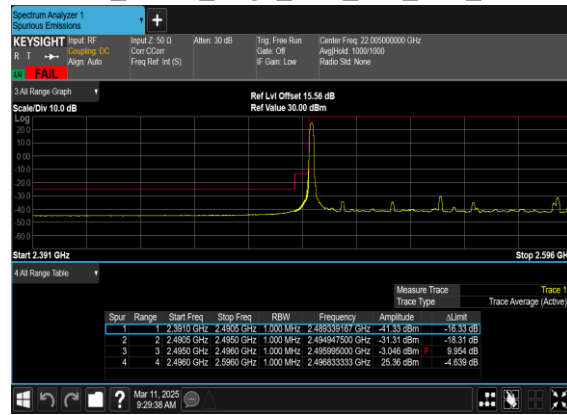




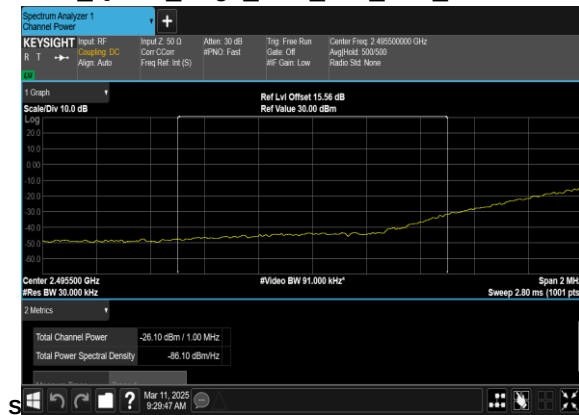
N41(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PAS



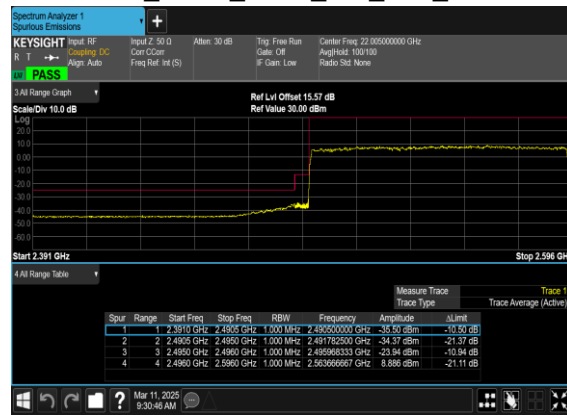
N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PAS

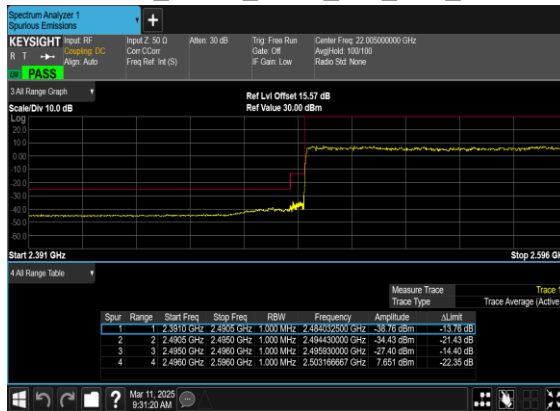


N41(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

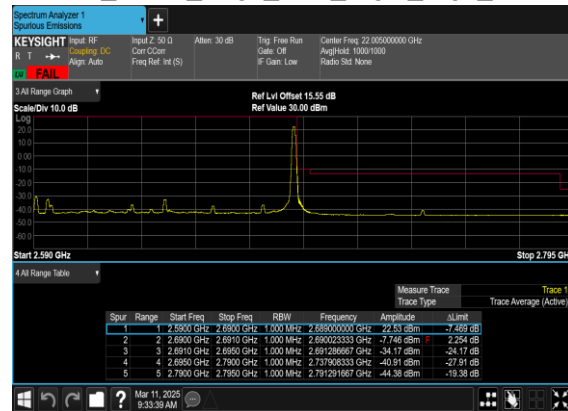




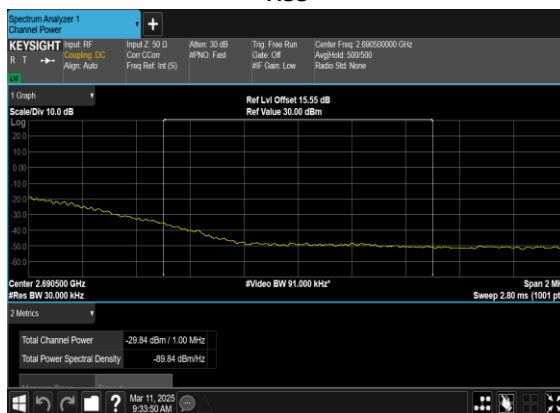
N41(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



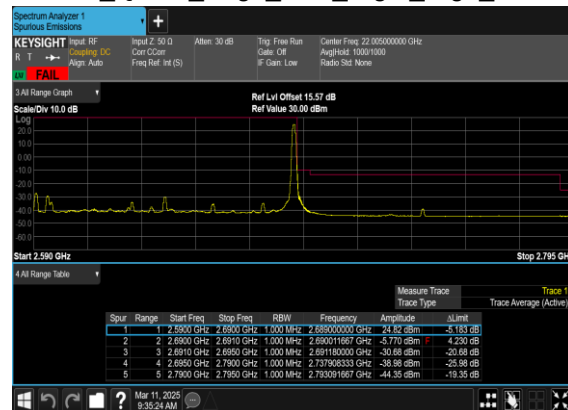
N41(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N41(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_P
ASS

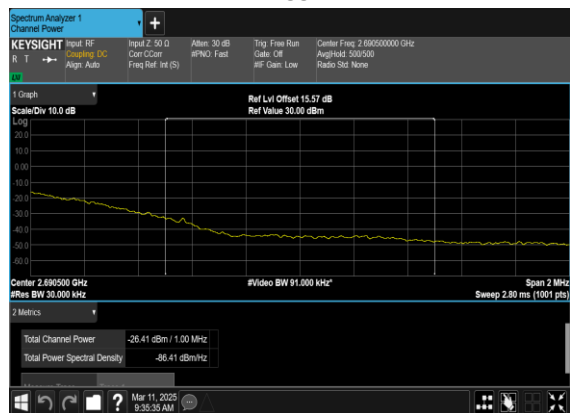


N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

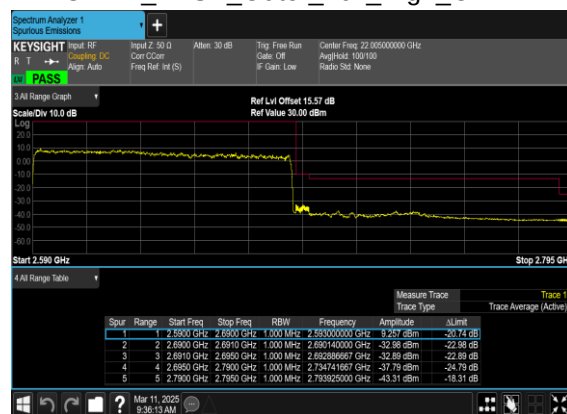




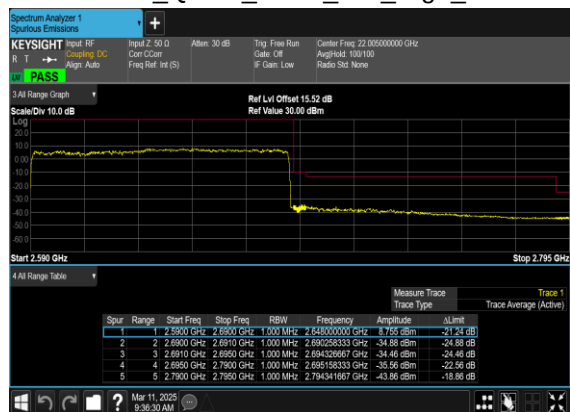
N41(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH_CHP_P
ASS



N41(100M)_DFT-s-
OFDM BPSK Outer Full High CH



N41(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	LiangPing Zhou	Temperature :	22~25℃
		Relative Humidity :	48~52%

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

n7 SA / NR 40MHz / QPSK(ANT5)									
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	5032.00	-60.29	-25	-35.29	-82.33	-65.85	7.14	12.70	H
	7548.00	-54.88	-25	-29.88	-81.63	-58.18	8.30	11.60	H
	10064.00	-50.34	-25	-25.34	-81.79	-51.86	10.48	12.00	H
	5032.00	-60.22	-25	-35.22	-82.35	-65.78	7.14	12.70	V
	7548.00	-55.11	-25	-30.11	-81.83	-58.41	8.30	11.60	V
	10064.00	-52.14	-25	-27.14	-82.07	-53.66	10.48	12.00	V

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

EN-DC_2A_n7A / LTE 10MHz + NR 40MHz / QPSK (ANT5+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 n7 Middle	5032.00	-60.00	-25	-35.00	-82.04	-65.56	7.14	12.70	H
	7548.00	-54.68	-25	-29.68	-81.43	-57.98	8.30	11.60	H
	10064.00	-50.63	-25	-25.63	-82.08	-52.15	10.48	12.00	H
	5032.00	-60.10	-25	-35.10	-82.23	-65.66	7.14	12.70	V
	7548.00	-54.78	-25	-29.78	-81.5	-58.08	8.30	11.60	V
	10064.00	-51.98	-25	-26.98	-81.91	-53.50	10.48	12.00	V
LTE Band2 Middle	3751	-61.13	-13	-48.13	-79.75	-67.88	5.85	12.60	H
	5626.5	-58.59	-13	-45.59	-81.41	-64.39	7.30	13.10	H
	7502	-54.62	-13	-41.62	-81.52	-57.77	8.35	11.50	H
	3751	-60.85	-13	-47.85	-79.4	-67.60	5.85	12.60	V
	5626.5	-59.20	-13	-46.20	-81.74	-65.00	7.30	13.10	V
	7502	-54.15	-13	-41.15	-81.04	-57.30	8.35	11.50	V

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



n41 SA / NR 40MHz / QPSK(ANT5)									
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	5090.00	-60.17	-25	-35.17	-82.09	-65.73	7.14	12.70	H
	7635.00	-54.86	-25	-29.86	-81.50	-58.16	8.30	11.60	H
	10180.00	-50.05	-25	-25.05	-81.36	-51.57	10.48	12.00	H
	5090.00	-59.93	-25	-34.93	-82.03	-65.49	7.14	12.70	V
	7635.00	-54.44	-25	-29.44	-81	-57.74	8.30	11.60	V
	10180.00	-51.69	-25	-26.69	-81.75	-53.21	10.48	12.00	V

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

EN-DC_2A_n41A / LTE 10MHz + NR 100MHz / QPSK (ANT5+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 n41 Middle	5090.00	-59.60	-25	-34.60	-81.52	-65.16	7.14	12.70	H
	7635.00	-54.27	-25	-29.27	-80.91	-57.57	8.30	11.60	H
	10180.00	-50.20	-25	-25.20	-81.51	-51.72	10.48	12.00	H
	5090.00	-59.47	-25	-34.47	-81.57	-65.03	7.14	12.70	V
	7635.00	-54.26	-25	-29.26	-80.82	-57.56	8.30	11.60	V
	10180.00	-51.51	-25	-26.51	-81.57	-53.03	10.48	12.00	V
LTE Band2 Middle	3751	-61.01	-13	-48.01	-79.63	-67.76	5.85	12.60	H
	5626.5	-58.76	-13	-45.76	-81.58	-64.56	7.30	13.10	H
	7502	-54.25	-13	-41.25	-81.15	-57.40	8.35	11.50	H
	3751	-60.86	-13	-47.86	-79.41	-67.61	5.85	12.60	V
	5626.5	-59.08	-13	-46.08	-81.62	-64.88	7.30	13.10	V
	7502	-54.44	-13	-41.44	-81.33	-57.59	8.35	11.50	V

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