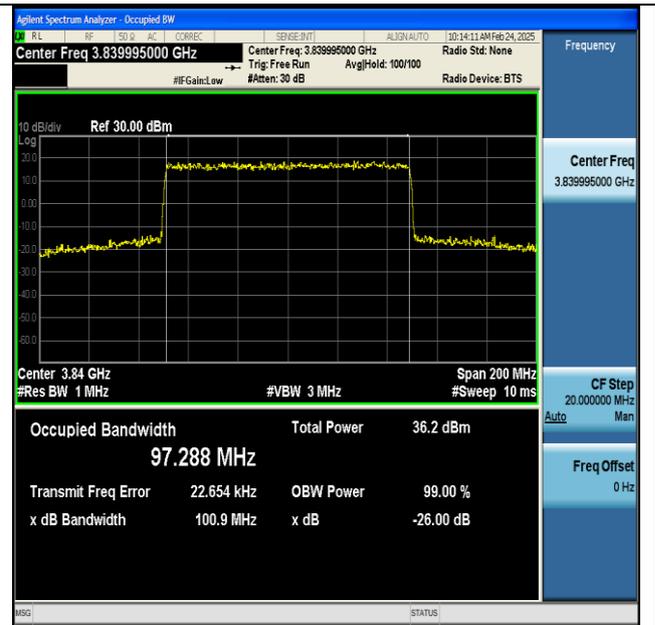|	
NTNV-n77(3700-3980)-PC2-30-100-M-CP-16QAM-Outer_Full-Ant1-PASS	NTNV-n77(3700-3980)-PC2-30-100-M-CP-64QAM-Outer_Full-Ant1-PASS
NTNV-n77(3700-3980)-PC2-30-100-M-CP-256QAM-Outer_Full-Ant1-PASS	NTNV-n77(3700-3980)-PC2-30-100-H-DFT-BPSK-Outer_Full-Ant1-PASS

NTNV-n77(3700-3980)-PC2-30-100-H-DFT-QPSK-Outer_Full-Ant1-PASS
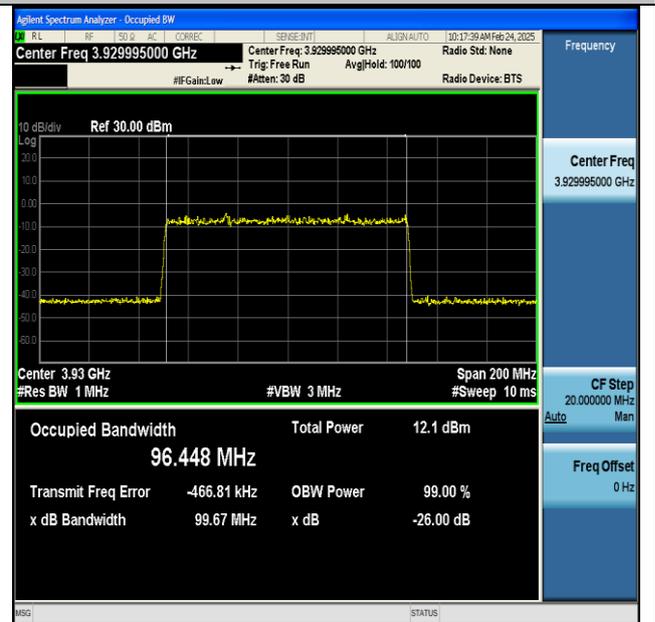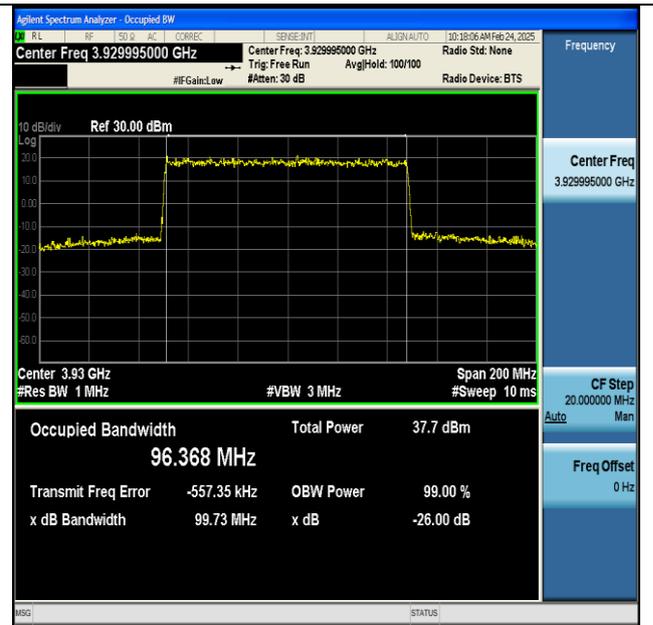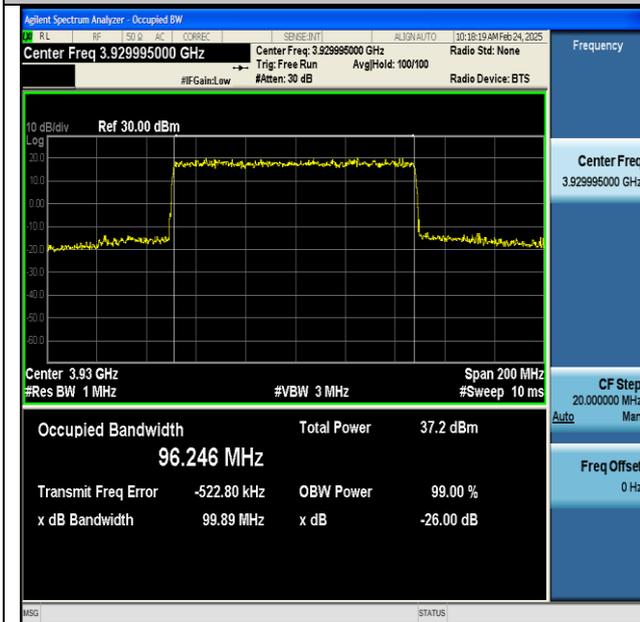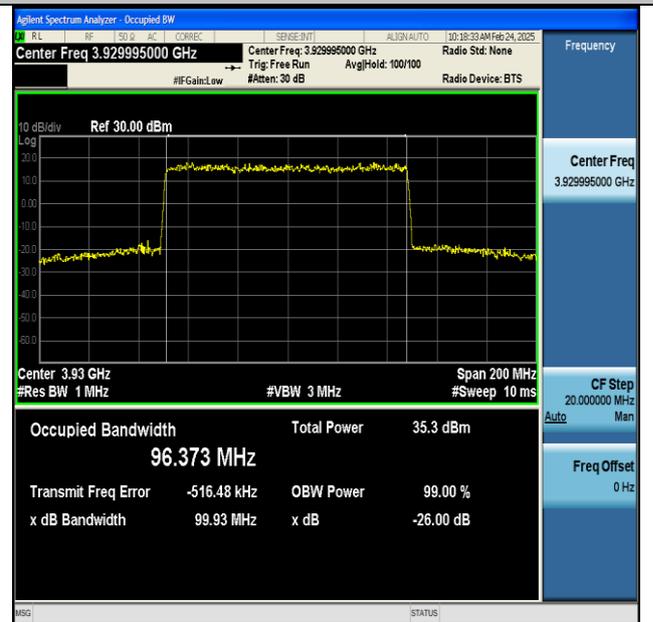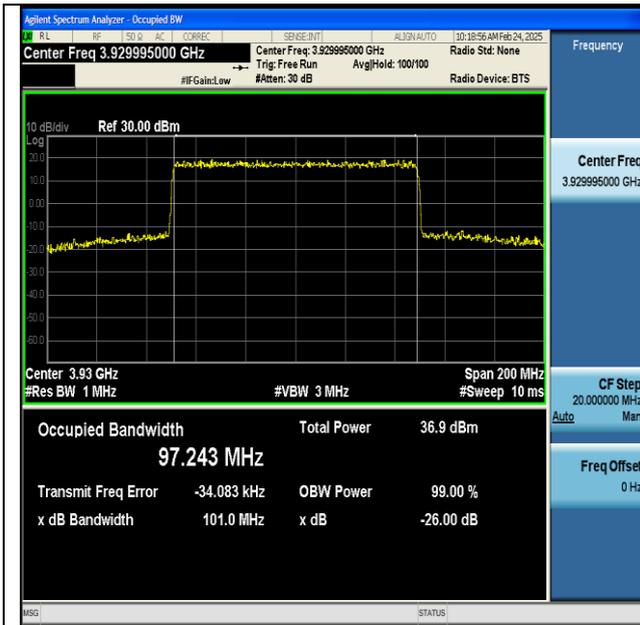

NTNV-n77(3700-3980)-PC2-30-100-H-DFT-16QAM-Outer_Full-Ant1-PASS

NTNV-n77(3700-3980)-PC2-30-100-H-DFT-64QAM-Outer_Full-Ant1-PASS

NTNV-n77(3700-3980)-PC2-30-100-H-DFT-256QAM-Outer_Full-Ant1-PASS

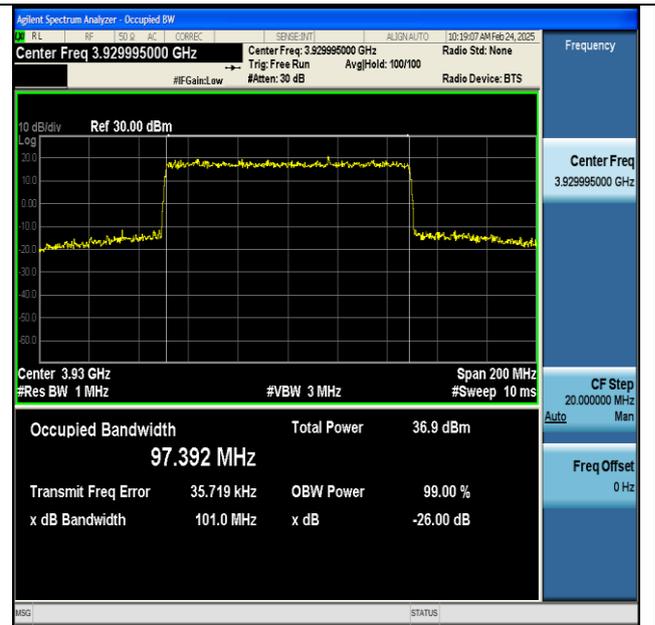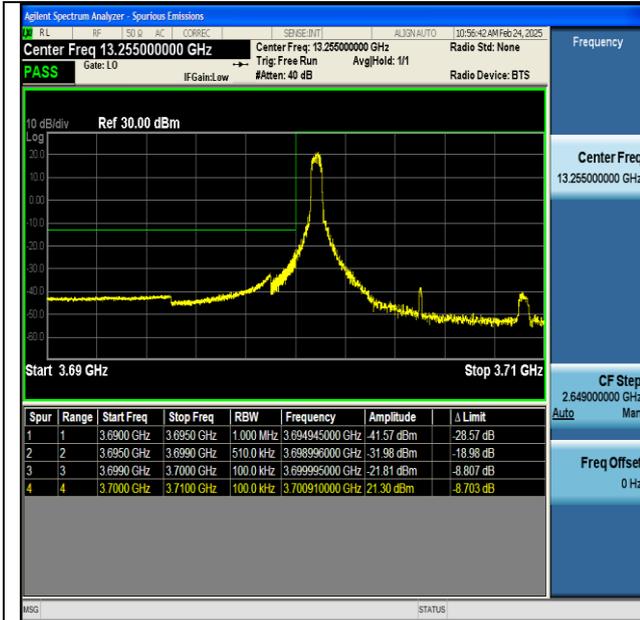|	
Occupied Bandwidth 97.243 MHz Total Power 36.9 dBm Transmit Freq Error -34.083 kHz OBW Power 99.00 % x dB Bandwidth 101.0 MHz x dB -26.00 dB	**Occupied Bandwidth** 97.392 MHz Total Power 36.9 dBm Transmit Freq Error 35.719 kHz OBW Power 99.00 % x dB Bandwidth 101.0 MHz x dB -26.00 dB
NTNV-n77(3700-3980)-PC2-30-100-H-CP-QPSK-Outer_Full-Ant1-PASS	NTNV-n77(3700-3980)-PC2-30-100-H-CP-16QAM-Outer_Full-Ant1-PASS
Occupied Bandwidth 97.450 MHz Total Power 36.4 dBm Transmit Freq Error 51.866 kHz OBW Power 99.00 % x dB Bandwidth 100.9 MHz x dB -26.00 dB	**Occupied Bandwidth** 97.410 MHz Total Power 33.4 dBm Transmit Freq Error 55.403 kHz OBW Power 99.00 % x dB Bandwidth 100.8 MHz x dB -26.00 dB
NTNV-n77(3700-3980)-PC2-30-100-H-CP-64QAM-Outer_Full-Ant1-PASS	NTNV-n77(3700-3980)-PC2-30-100-H-CP-256QAM-Outer_Full-Ant1-PASS

Band Edge for SA

Test Graphs

NTNV-n77(3700-3980)-PC2-30-10-L-DFT-BPSK-Edge_1RB_Left-PASS

NTNV-n77(3700-3980)-PC2-30-10-L-DFT-BPSK-Outer_Full-PASS

NTNV-n77(3700-3980)-PC2-30-10-L-CP-QPSK-Edge_1RB_Left-PASS
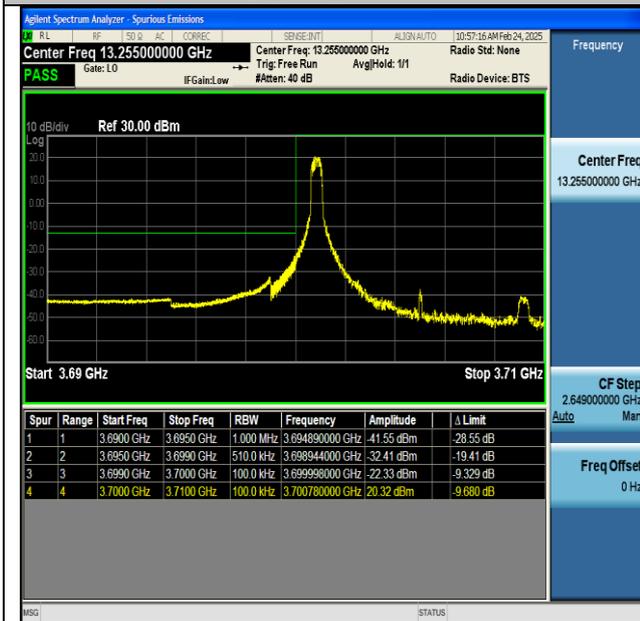

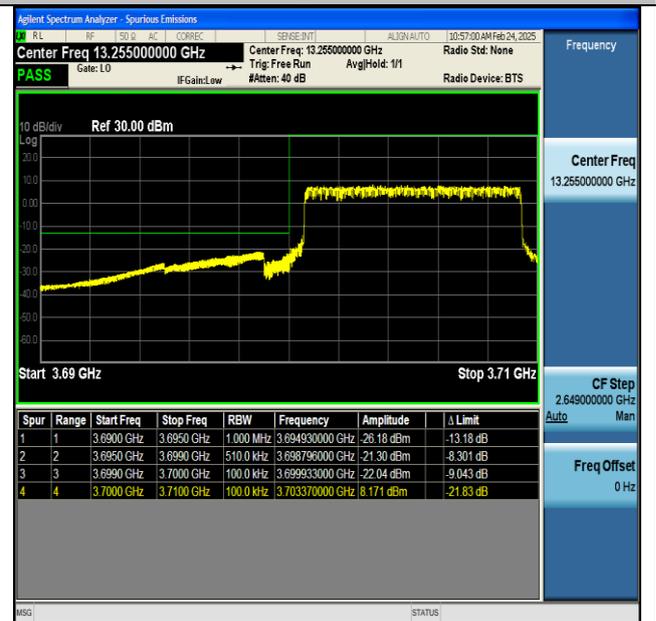NTNV-n77(3700-3980)-PC2-30-10-L-CP-QPSK-Outer_Full-PASS

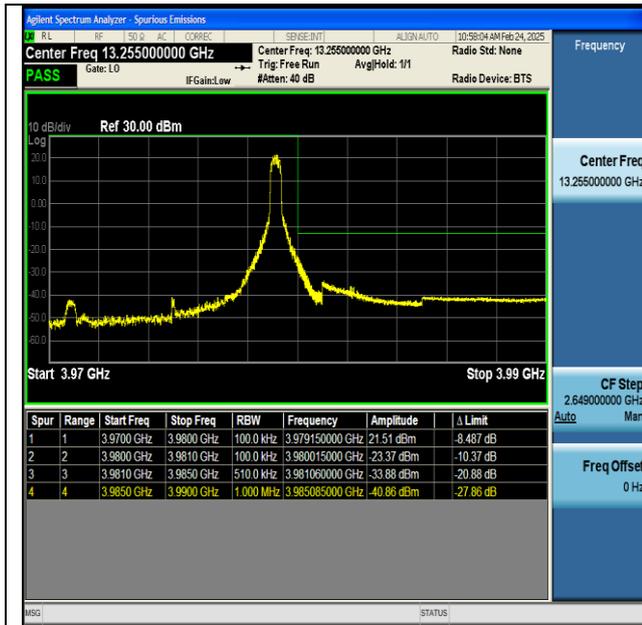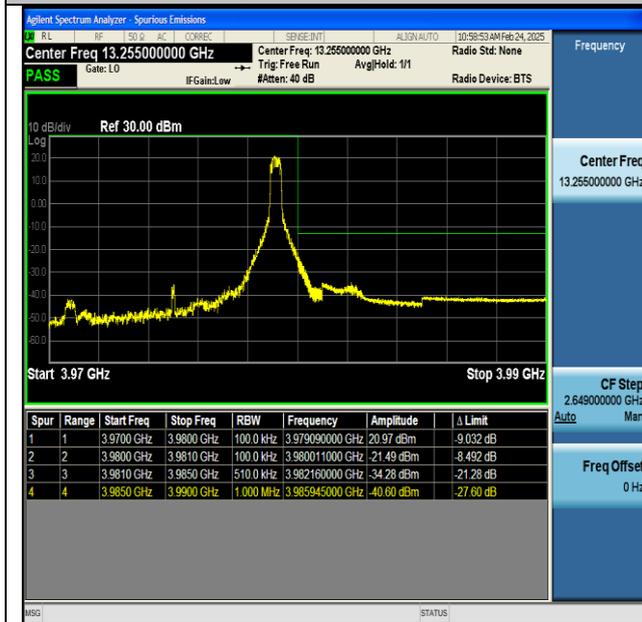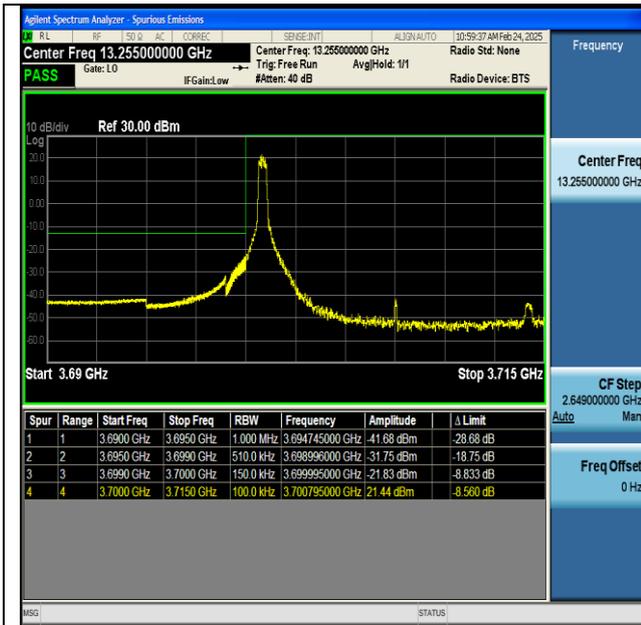NTNV-n77(3700-3980)-PC2-30-10-H-DFT-BPSK-Edge_1RB_Right-PASS

NTNV-n77(3700-3980)-PC2-30-10-H-DFT-BPSK-Outer_Full-PASS

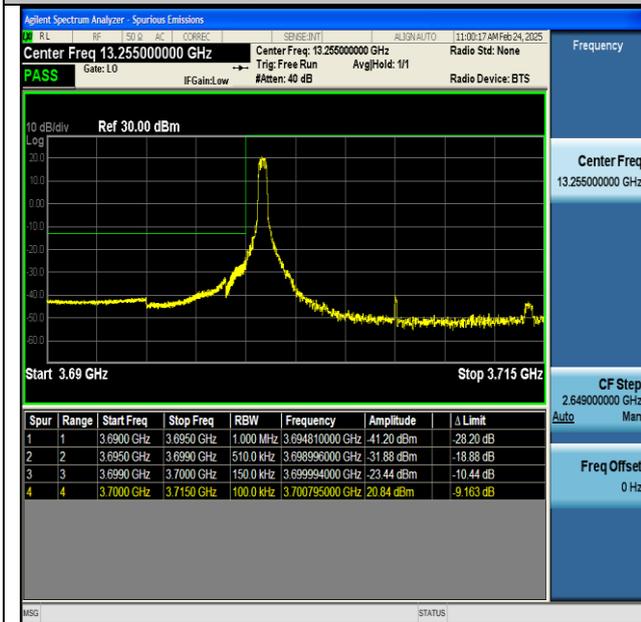NTNV-n77(3700-3980)-PC2-30-10-H-CP-QPSK-Edge_1RB_Right-PASS
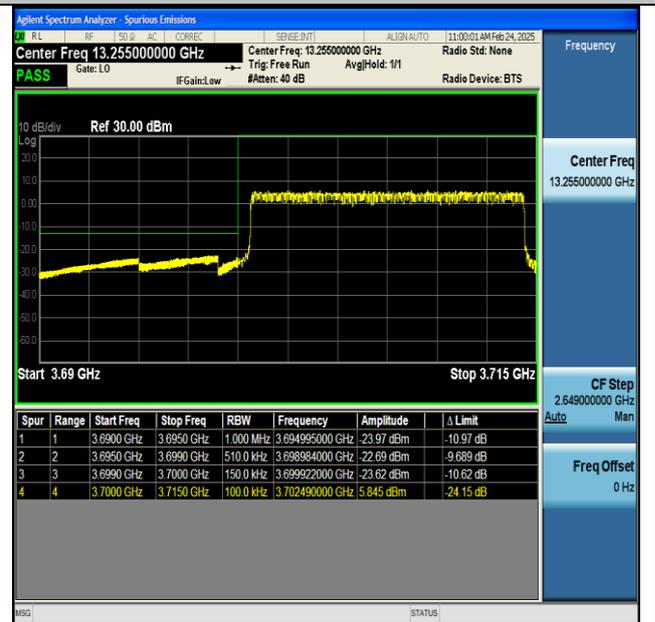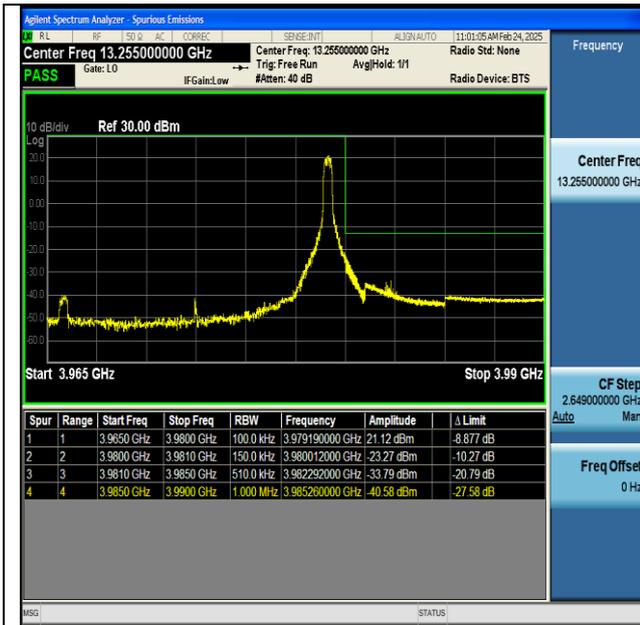

NTNV-n77(3700-3980)-PC2-30-10-H-CP-QPSK-Outer_Full-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.694745000 GHz	-41.68 dBm	-28.68 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698996000 GHz	-31.75 dBm	-18.75 dB
3	3	3.6990 GHz	3.7000 GHz	150.0 kHz	3.699995000 GHz	-21.83 dBm	-8.833 dB
4	4	3.7000 GHz	3.7150 GHz	100.0 kHz	3.700795000 GHz	21.44 dBm	-8.560 dB

NTNV-n77(3700-3980)-PC2-30-15-L-DFT-BPSK-Edge_1RB_Left-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.694480000 GHz	-20.86 dBm	-7.860 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.695072000 GHz	-24.90 dBm	-11.90 dB
3	3	3.6990 GHz	3.7000 GHz	150.0 kHz	3.699955000 GHz	-23.57 dBm	-10.57 dB
4	4	3.7000 GHz	3.7150 GHz	100.0 kHz	3.704440000 GHz	9.346 dBm	-20.65 dB

NTNV-n77(3700-3980)-PC2-30-15-L-DFT-BPSK-Outer_Full-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.694810000 GHz	-41.20 dBm	-28.20 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698996000 GHz	-31.88 dBm	-18.88 dB
3	3	3.6990 GHz	3.7000 GHz	150.0 kHz	3.699994000 GHz	-23.44 dBm	-10.44 dB
4	4	3.7000 GHz	3.7150 GHz	100.0 kHz	3.700795000 GHz	20.84 dBm	-9.163 dB

NTNV-n77(3700-3980)-PC2-30-15-L-CP-QPSK-Edge_1RB_Left-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.694995000 GHz	-23.97 dBm	-10.97 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698984000 GHz	-22.69 dBm	-9.689 dB
3	3	3.6990 GHz	3.7000 GHz	150.0 kHz	3.699922000 GHz	-23.62 dBm	-10.62 dB
4	4	3.7000 GHz	3.7150 GHz	100.0 kHz	3.702490000 GHz	5.845 dBm	-24.15 dB

NTNV-n77(3700-3980)-PC2-30-15-L-CP-QPSK-Outer_Full-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.9650 GHz	3.9800 GHz	100.0 kHz	3.979190000 GHz	21.12 dBm	-8.877 dB
2	2	3.9800 GHz	3.9810 GHz	150.0 kHz	3.980012000 GHz	-23.27 dBm	-10.27 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.982292000 GHz	-33.79 dBm	-20.79 dB
4	4	3.9850 GHz	3.9900 GHz	1.000 MHz	3.985260000 GHz	-40.58 dBm	-27.58 dB

NTNV-n77(3700-3980)-PC2-30-15-H-DFT-BPSK-Edge_1RB_Right-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.9650 GHz	3.9800 GHz	100.0 kHz	3.973325000 GHz	9.693 dBm	-20.31 dB
2	2	3.9800 GHz	3.9810 GHz	150.0 kHz	3.980014000 GHz	-29.37 dBm	-16.37 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.984732000 GHz	-25.56 dBm	-12.56 dB
4	4	3.9850 GHz	3.9900 GHz	1.000 MHz	3.985030000 GHz	-23.12 dBm	-10.12 dB

NTNV-n77(3700-3980)-PC2-30-15-H-DFT-BPSK-Outer_Full-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.9650 GHz	3.9800 GHz	100.0 kHz	3.979175000 GHz	20.66 dBm	-9.338 dB
2	2	3.9800 GHz	3.9810 GHz	150.0 kHz	3.980015000 GHz	-23.04 dBm	-10.04 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.982080000 GHz	-34.72 dBm	-21.72 dB
4	4	3.9850 GHz	3.9900 GHz	1.000 MHz	3.985090000 GHz	-40.09 dBm	-27.09 dB

NTNV-n77(3700-3980)-PC2-30-15-H-CP-QPSK-Edge_1RB_Right-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.9650 GHz	3.9800 GHz	100.0 kHz	3.971270000 GHz	6.421 dBm	-23.58 dB
2	2	3.9800 GHz	3.9810 GHz	150.0 kHz	3.980227000 GHz	-22.59 dBm	-9.592 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.981020000 GHz	-21.00 dBm	-8.001 dB
4	4	3.9850 GHz	3.9900 GHz	1.000 MHz	3.985050000 GHz	-22.04 dBm	-9.045 dB

NTNV-n77(3700-3980)-PC2-30-15-H-CP-QPSK-Outer_Full-PASS

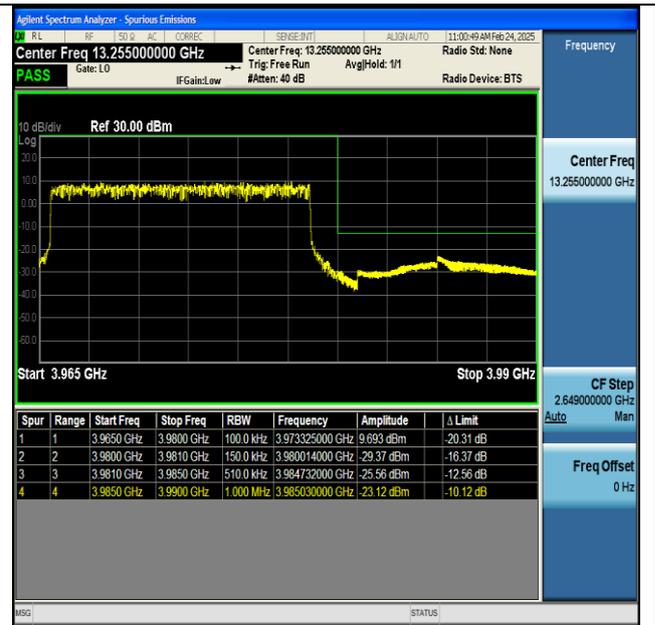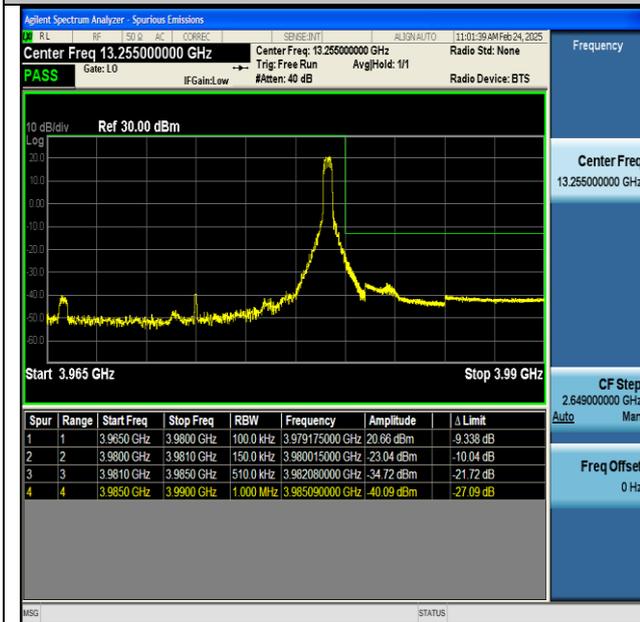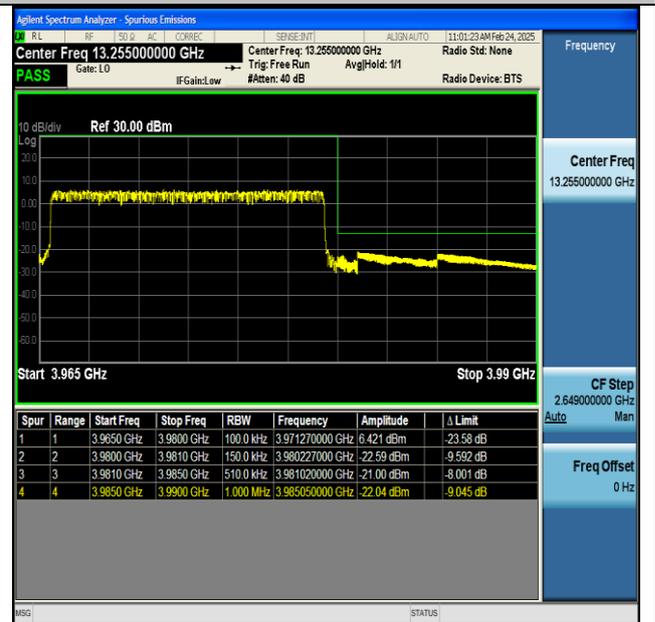|	
NTNV-n77(3700-3980)-PC2-30-20-L-DFT-BPSK-Edge_1RB_Left-PASS	NTNV-n77(3700-3980)-PC2-30-20-L-DFT-BPSK-Outer_Full-PASS
NTNV-n77(3700-3980)-PC2-30-20-L-CP-QPSK-Edge_1RB_Left-PASS	NTNV-n77(3700-3980)-PC2-30-20-L-CP-QPSK-Outer_Full-PASS

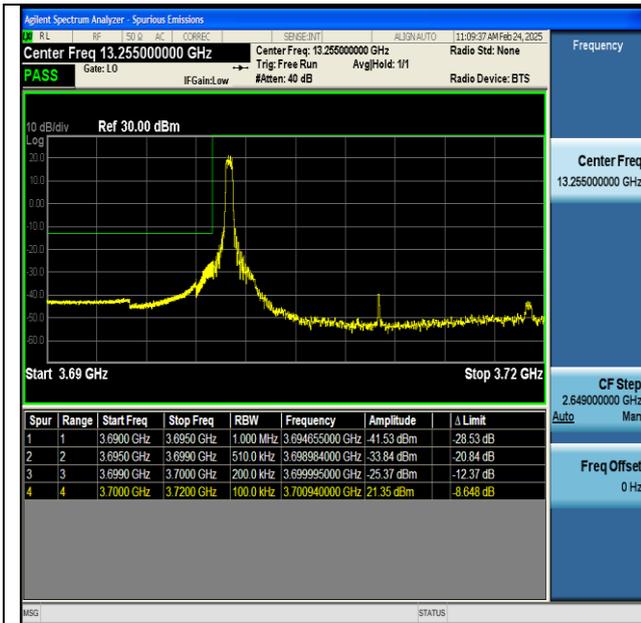NTNV-n77(3700-3980)-PC2-30-20-H-DFT-BPSK-Edge_1RB_Right-PASS

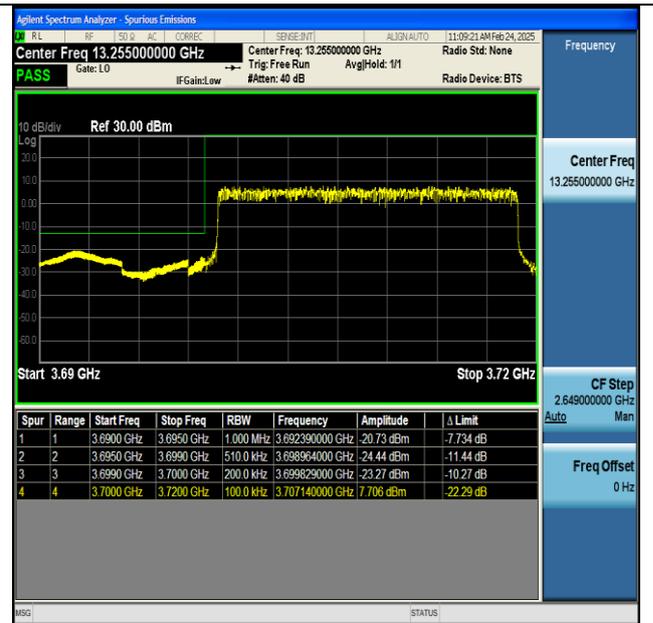NTNV-n77(3700-3980)-PC2-30-20-H-DFT-BPSK-Outer_Full-PASS

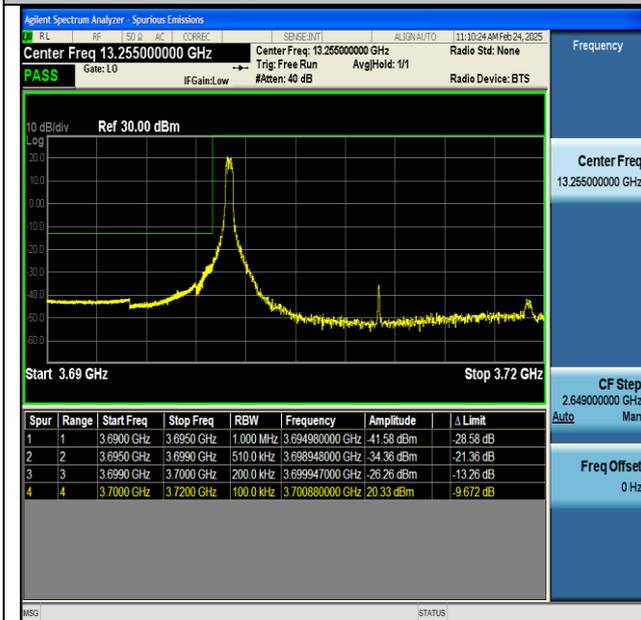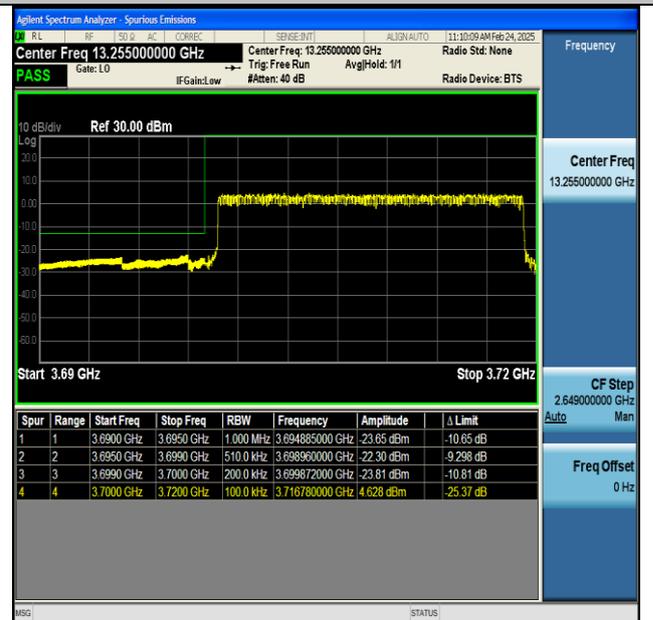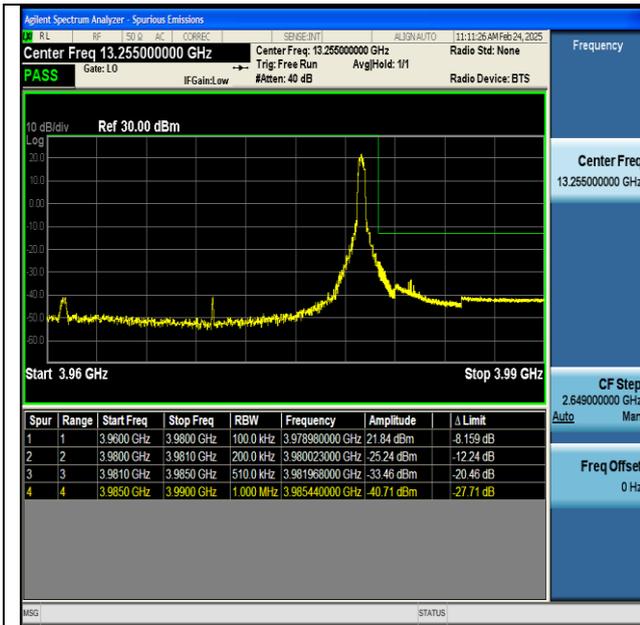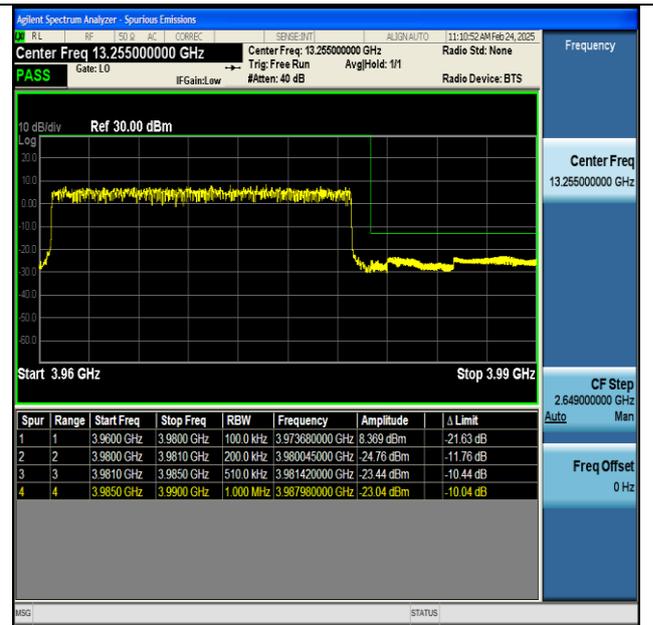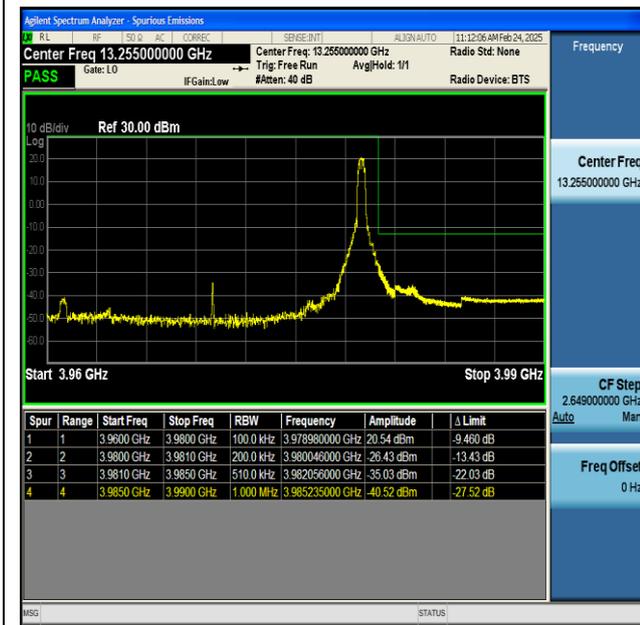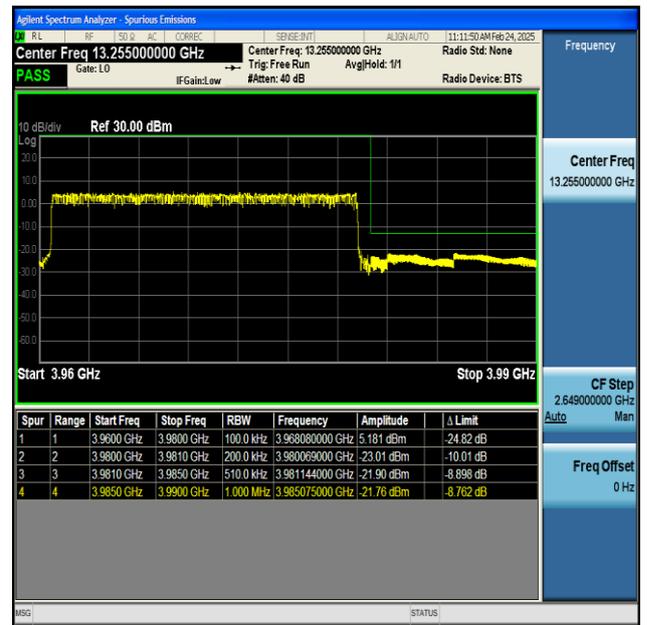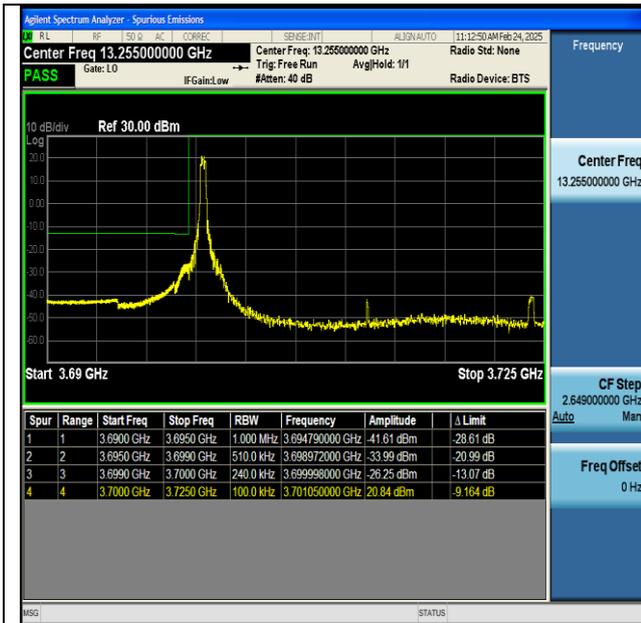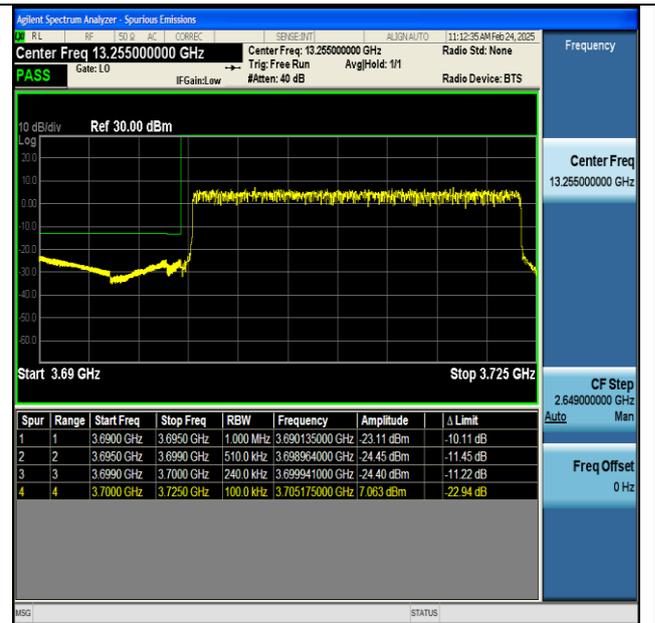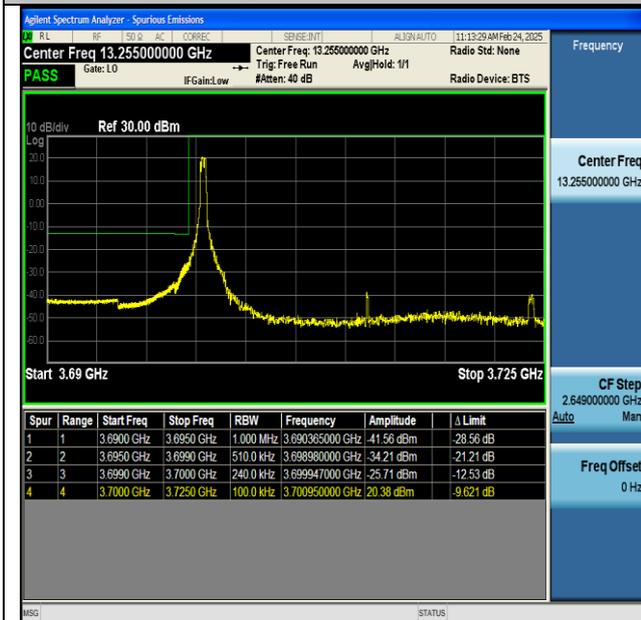NTNV-n77(3700-3980)-PC2-30-20-H-CP-QPSK-Edge_1RB_Right-PASS
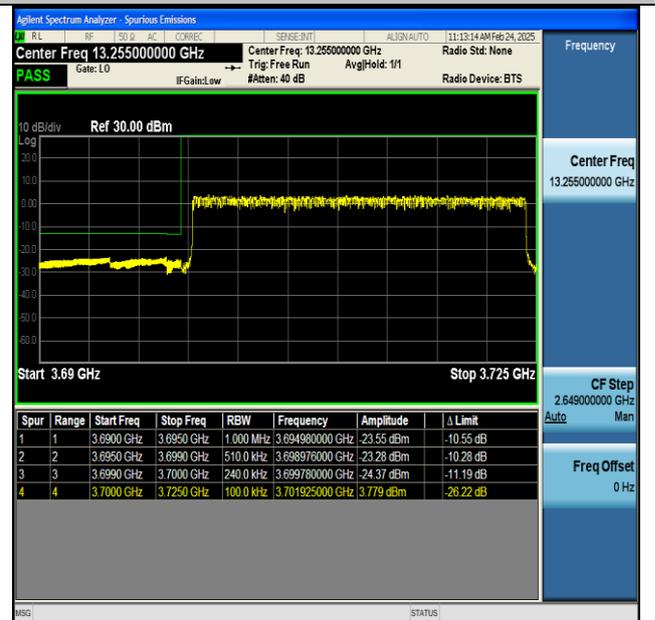

NTNV-n77(3700-3980)-PC2-30-20-H-CP-QPSK-Outer_Full-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6950 GHz	3.6950 GHz	1.000 MHz	3.694790000 GHz	-41.61 dBm	-28.61 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698972000 GHz	-33.99 dBm	-20.99 dB
3	3	3.6990 GHz	3.7000 GHz	240.0 kHz	3.699998000 GHz	-26.25 dBm	-13.07 dB
4	4	3.7000 GHz	3.7250 GHz	100.0 kHz	3.701050000 GHz	20.84 dBm	-9.164 dB

NTNV-n77(3700-3980)-PC2-30-25-L-DFT-BPSK-Edge_1RB_Left-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.690135000 GHz	-23.11 dBm	-10.11 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698964000 GHz	-24.45 dBm	-11.45 dB
3	3	3.6990 GHz	3.7000 GHz	240.0 kHz	3.699941000 GHz	-24.40 dBm	-11.22 dB
4	4	3.7000 GHz	3.7250 GHz	100.0 kHz	3.705175000 GHz	7.063 dBm	-22.94 dB

NTNV-n77(3700-3980)-PC2-30-25-L-DFT-BPSK-Outer_Full-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.690365000 GHz	-41.56 dBm	-28.56 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698980000 GHz	-34.21 dBm	-21.21 dB
3	3	3.6990 GHz	3.7000 GHz	240.0 kHz	3.699947000 GHz	-25.71 dBm	-12.53 dB
4	4	3.7000 GHz	3.7250 GHz	100.0 kHz	3.700950000 GHz	20.38 dBm	-9.621 dB

NTNV-n77(3700-3980)-PC2-30-25-L-CP-QPSK-Edge_1RB_Left-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.694980000 GHz	-23.55 dBm	-10.55 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698976000 GHz	-23.28 dBm	-10.28 dB
3	3	3.6990 GHz	3.7000 GHz	240.0 kHz	3.699780000 GHz	-24.37 dBm	-11.19 dB
4	4	3.7000 GHz	3.7250 GHz	100.0 kHz	3.701925000 GHz	3.779 dBm	-26.22 dB

NTNV-n77(3700-3980)-PC2-30-25-L-CP-QPSK-Outer_Full-PASS

NTNV-n77(3700-3980)-PC2-30-25-H-DFT-BPSK-Edge_1RB_Right-PASS	NTNV-n77(3700-3980)-PC2-30-25-H-DFT-BPSK-Outer_Full-PASS
NTNV-n77(3700-3980)-PC2-30-25-H-CP-QPSK-Edge_1RB_Right-PASS	NTNV-n77(3700-3980)-PC2-30-25-H-CP-QPSK-Outer_Full-PASS

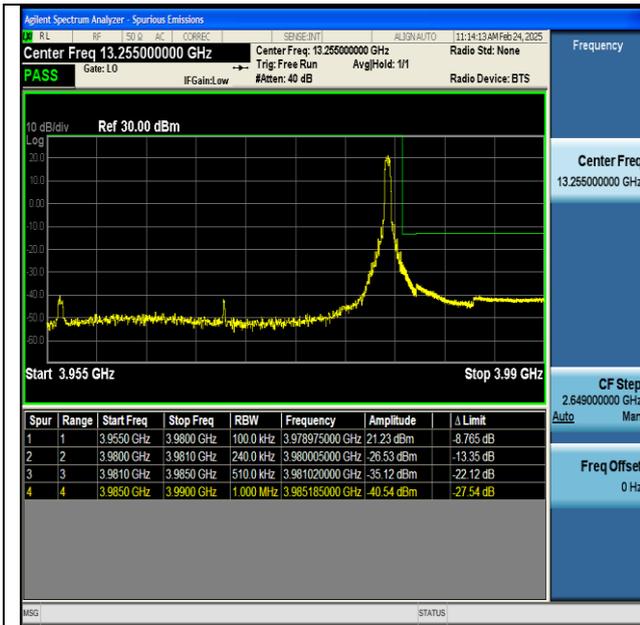NTNV-n77(3700-3980)-PC2-30-30-L-DFT-BPSK-Edge_1RB_Left-PASS
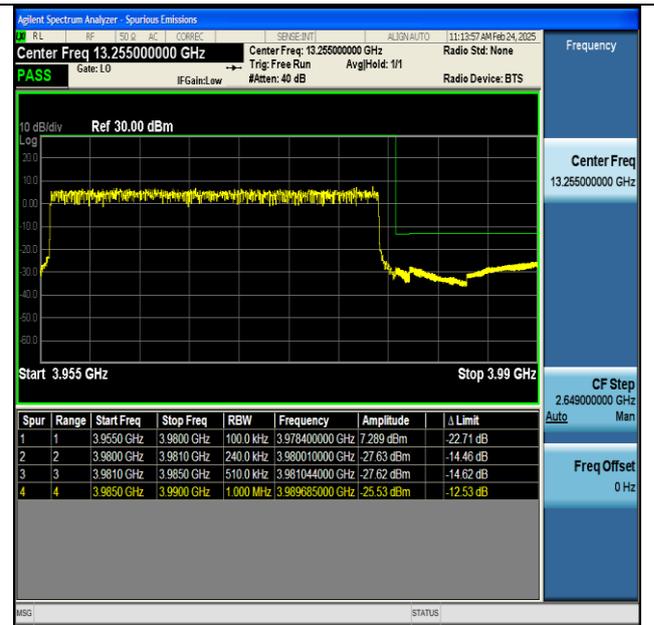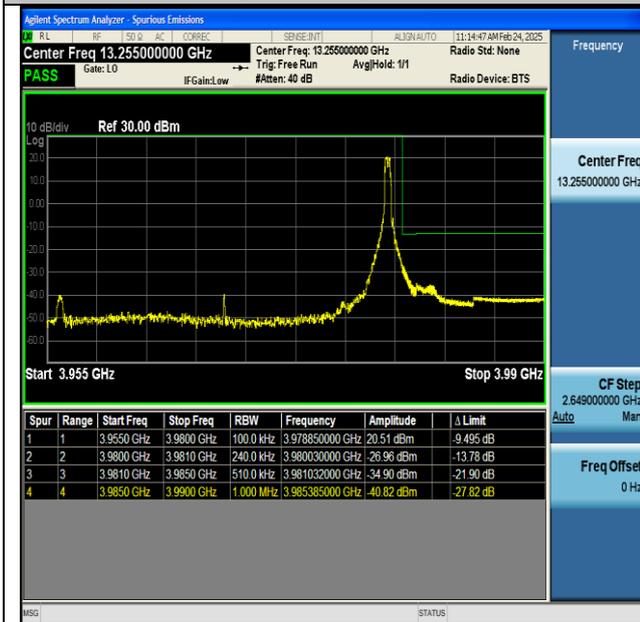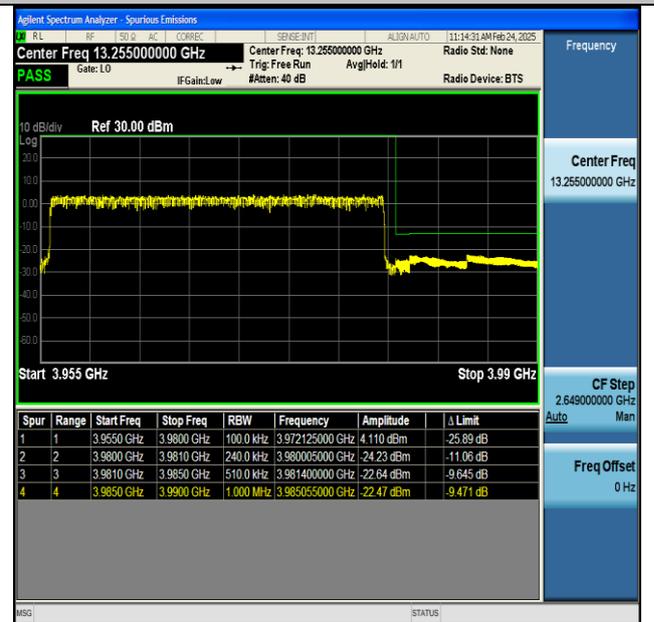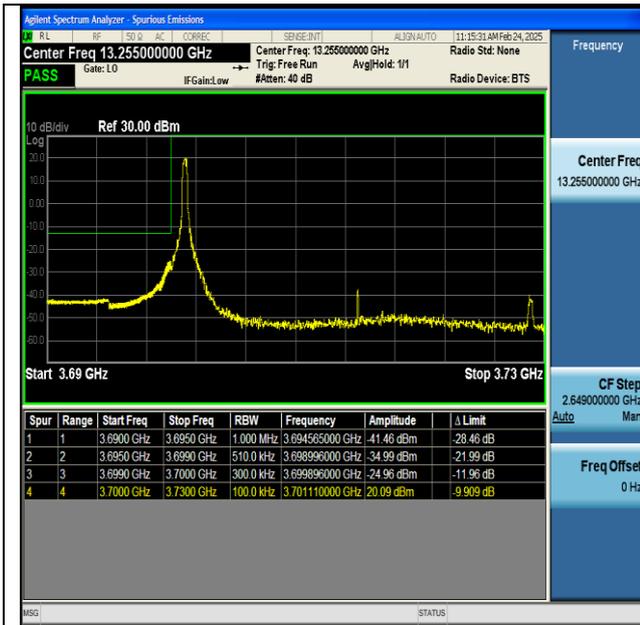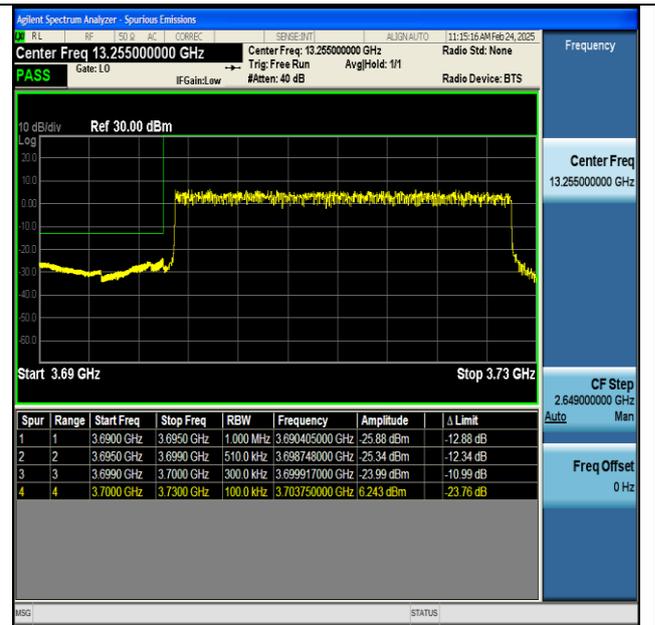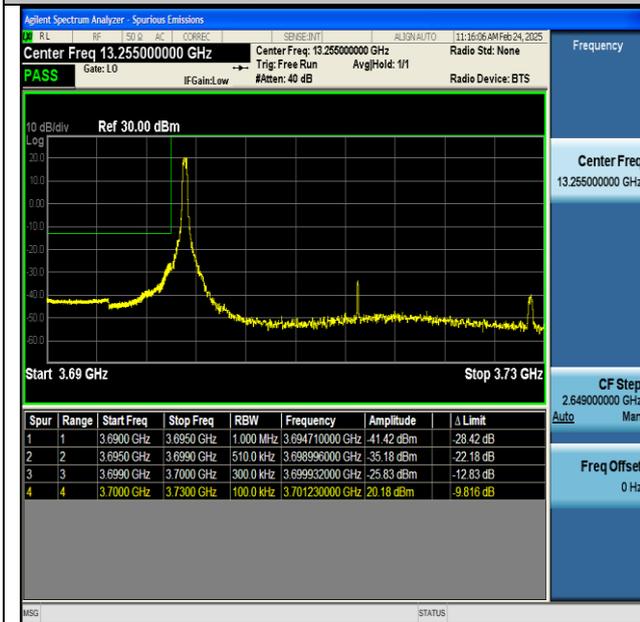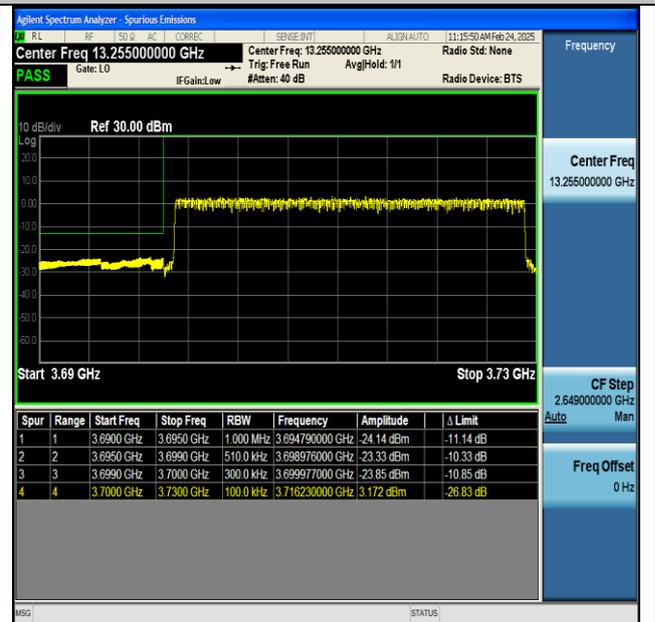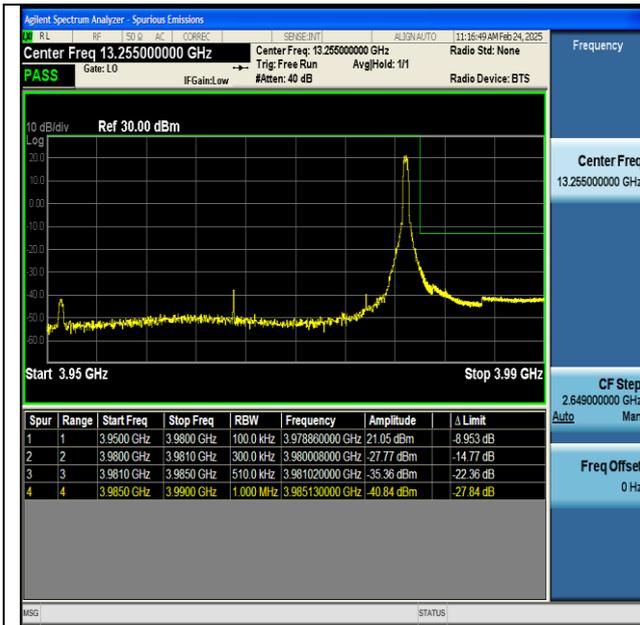

NTNV-n77(3700-3980)-PC2-30-30-L-DFT-BPSK-Outer_Full-PASS

NTNV-n77(3700-3980)-PC2-30-30-L-CP-QPSK-Edge_1RB_Left-PASS

NTNV-n77(3700-3980)-PC2-30-30-L-CP-QPSK-Outer_Full-PASS

NTNV-n77(3700-3980)-PC2-30-30-H-DFT-BPSK-Edge_1RB_Right-PASS	NTNV-n77(3700-3980)-PC2-30-30-H-DFT-BPSK-Outer_Full-PASS
NTNV-n77(3700-3980)-PC2-30-30-H-CP-QPSK-Edge_1RB_Right-PASS	NTNV-n77(3700-3980)-PC2-30-30-H-CP-QPSK-Outer_Full-PASS

TOWE

Screenshot 1 (top-left)

Agilent Spectrum Analyzer - Spurious Emissions
RL RF 50Ω AC CORREC SENSE:INT ALIGN AUTO 11:18:07 AM Feb 24, 2025
Center Freq 13.255000000 GHz Center Freq: 13.255000000 GHz Radio Std: None
PASS Gate: LO Trig: Free Run Avg|Hold: 1/1
IFGain:Low #Atten: 40 dB Radio Device: BTS
10 dB/div Ref 30.00 dBm
Start 3.69 GHz Stop 3.74 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.694990000 GHz	-41.61 dBm	-28.61 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698888000 GHz	-34.70 dBm	-21.70 dB
3	3	3.6990 GHz	3.7000 GHz	360.0 kHz	3.699909000 GHz	-25.15 dBm	-12.15 dB
4	4	3.7000 GHz	3.7400 GHz	100.0 kHz	3.701120000 GHz	20.73 dBm	-9.266 dB

NTNV-n77(3700-3980)-PC2-30-40-L-DFT-BPSK-Edge_1RB_Left-PASS

Screenshot 2 (top-right)

Agilent Spectrum Analyzer - Spurious Emissions
RL RF 50Ω AC CORREC SENSE:INT ALIGN AUTO 11:17:52 AM Feb 24, 2025
Center Freq 13.255000000 GHz Center Freq: 13.255000000 GHz Radio Std: None
PASS Gate: LO Trig: Free Run Avg|Hold: 1/1
IFGain:Low #Atten: 40 dB Radio Device: BTS
10 dB/div Ref 30.00 dBm
Start 3.69 GHz Stop 3.74 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.694925000 GHz	-26.08 dBm	-13.08 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698884000 GHz	-25.98 dBm	-12.98 dB
3	3	3.6990 GHz	3.7000 GHz	360.0 kHz	3.699991000 GHz	-24.68 dBm	-11.68 dB
4	4	3.7000 GHz	3.7400 GHz	100.0 kHz	3.703640000 GHz	5.197 dBm	-24.80 dB

NTNV-n77(3700-3980)-PC2-30-40-L-DFT-BPSK-Outer_Full-PASS

Screenshot 3 (bottom-left)

Agilent Spectrum Analyzer - Spurious Emissions
RL RF 50Ω AC CORREC SENSE:INT ALIGN AUTO 11:18:41 AM Feb 24, 2025
Center Freq 13.255000000 GHz Center Freq: 13.255000000 GHz Radio Std: None
PASS Gate: LO Trig: Free Run Avg|Hold: 1/1
IFGain:Low #Atten: 40 dB Radio Device: BTS
10 dB/div Ref 30.00 dBm
Start 3.69 GHz Stop 3.74 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.694950000 GHz	-41.76 dBm	-28.76 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698996000 GHz	-35.11 dBm	-22.11 dB
3	3	3.6990 GHz	3.7000 GHz	360.0 kHz	3.699932000 GHz	-25.55 dBm	-12.55 dB
4	4	3.7000 GHz	3.7400 GHz	100.0 kHz	3.701160000 GHz	20.86 dBm	-9.145 dB

NTNV-n77(3700-3980)-PC2-30-40-L-CP-QPSK-Edge_1RB_Left-PASS

Screenshot 4 (bottom-right)

Agilent Spectrum Analyzer - Spurious Emissions
RL RF 50Ω AC CORREC SENSE:INT ALIGN AUTO 11:18:26 AM Feb 24, 2025
Center Freq 13.255000000 GHz Center Freq: 13.255000000 GHz Radio Std: None
PASS Gate: LO Trig: Free Run Avg|Hold: 1/1
IFGain:Low #Atten: 40 dB Radio Device: BTS
10 dB/div Ref 30.00 dBm
Start 3.69 GHz Stop 3.74 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6900 GHz	3.6950 GHz	1.000 MHz	3.693855000 GHz	-24.32 dBm	-11.32 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698472000 GHz	-23.13 dBm	-10.13 dB
3	3	3.6990 GHz	3.7000 GHz	360.0 kHz	3.699959000 GHz	-24.46 dBm	-11.46 dB
4	4	3.7000 GHz	3.7400 GHz	100.0 kHz	3.713880000 GHz	1.909 dBm	-28.09 dB

NTNV-n77(3700-3980)-PC2-30-40-L-CP-QPSK-Outer_Full-PASS

NTNV-n77(3700-3980)-PC2-30-40-H-DFT-BPSK-
Edge_1RB_Right-PASS

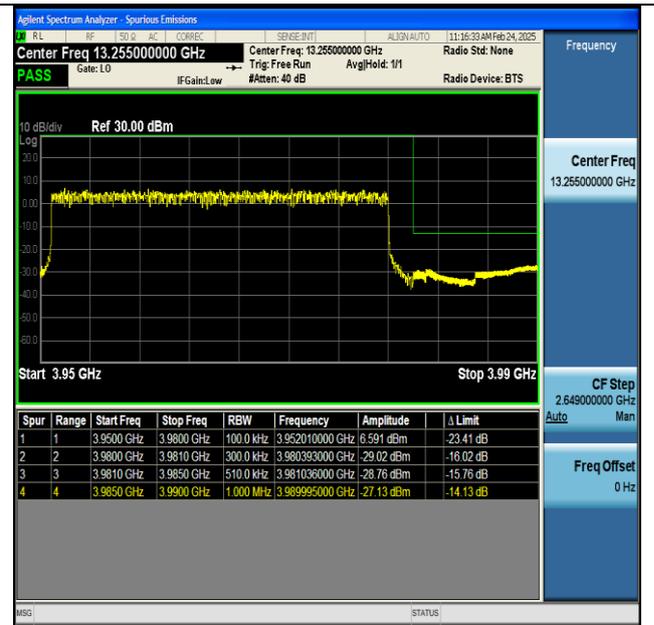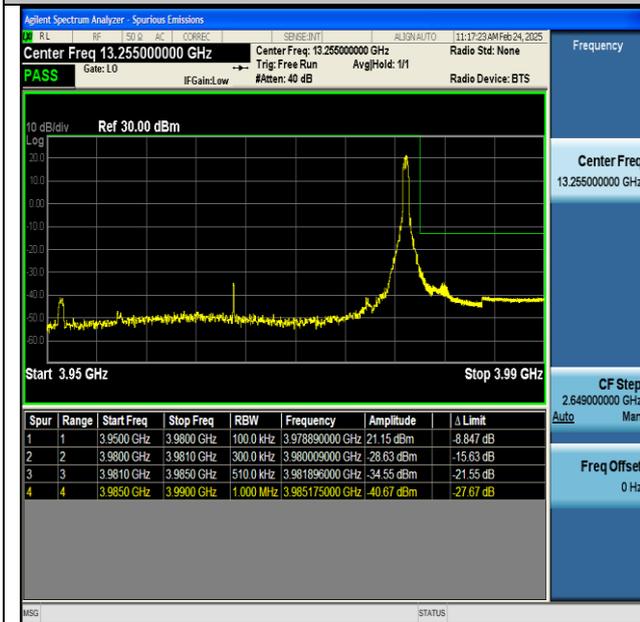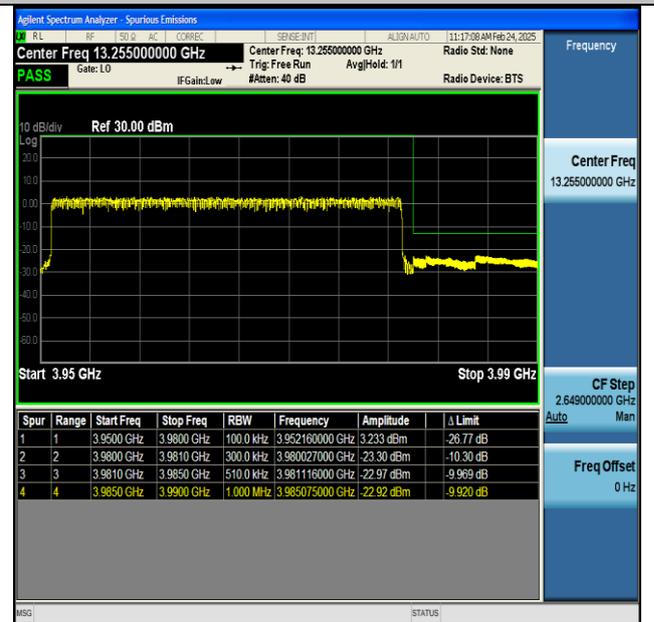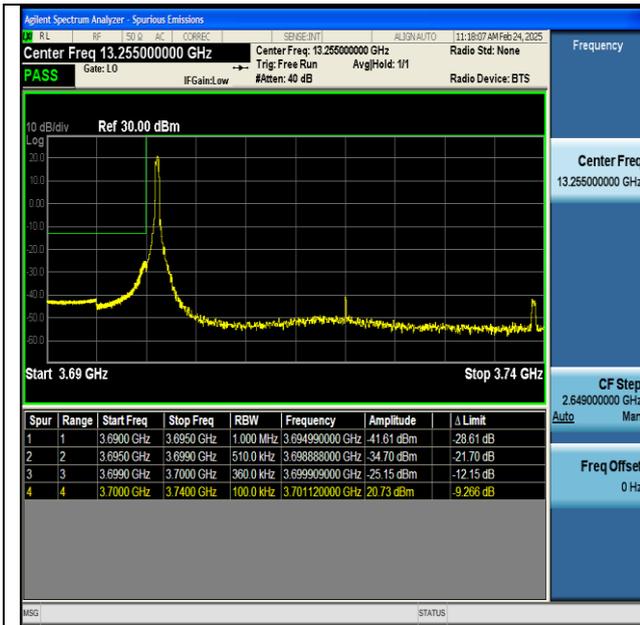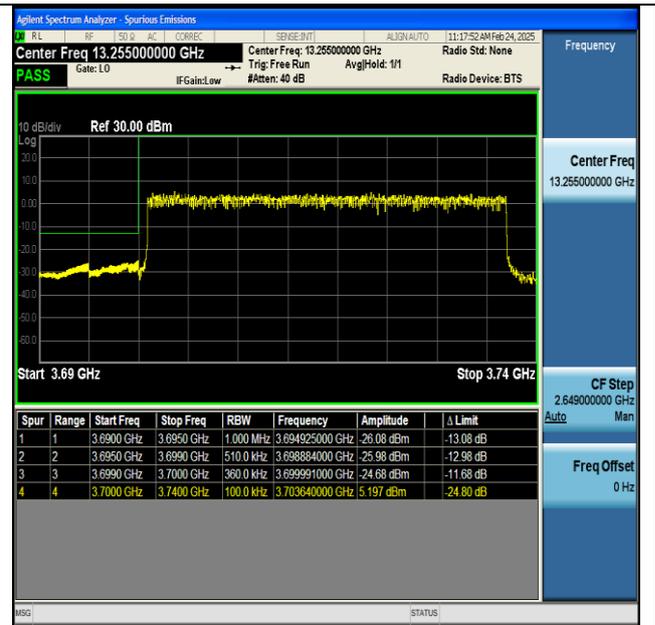NTNV-n77(3700-3980)-PC2-30-40-H-DFT-BPSK-
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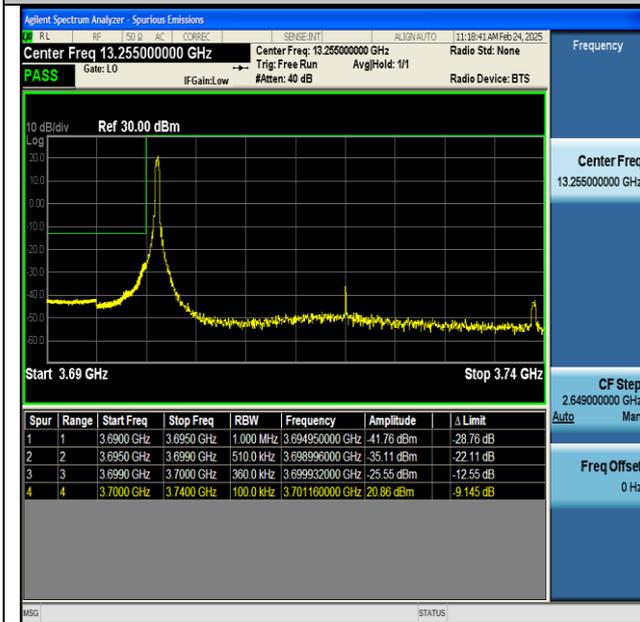NTNV-n77(3700-3980)-PC2-30-40-H-CP-QPSK-
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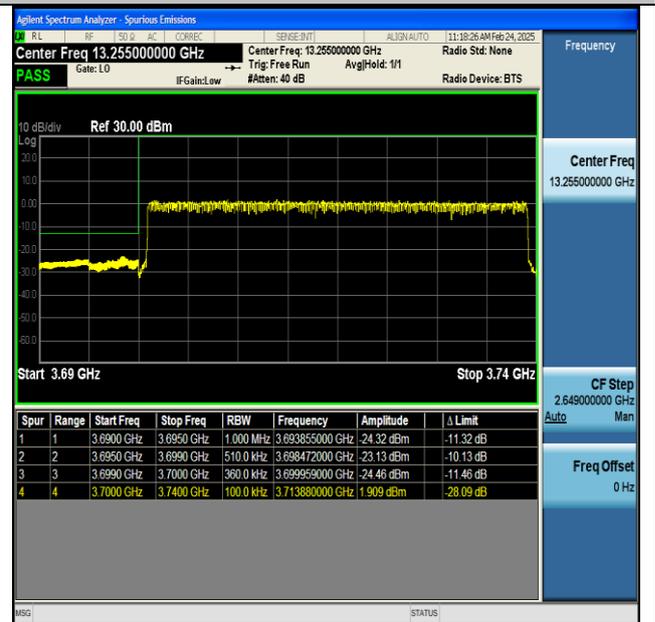NTNV-n77(3700-3980)-PC2-30-40-H-CP-QPSK-
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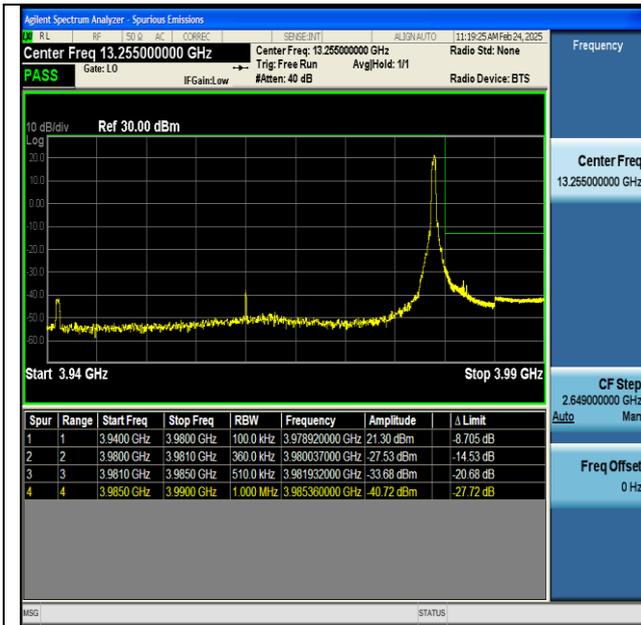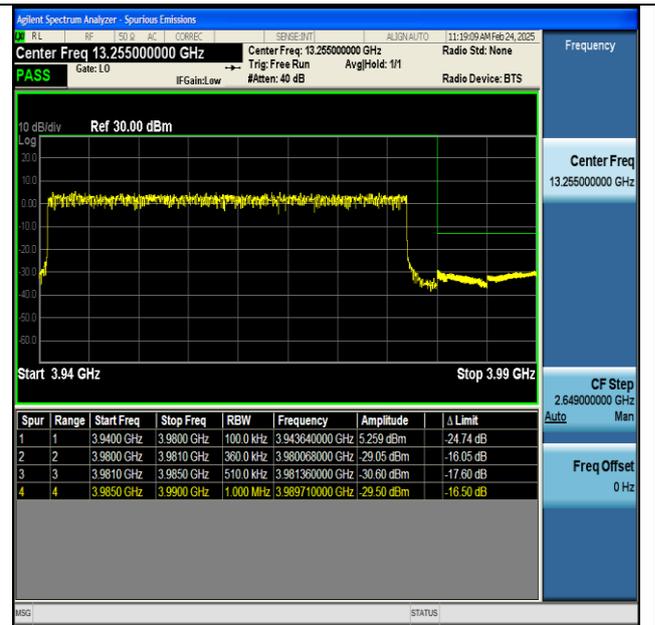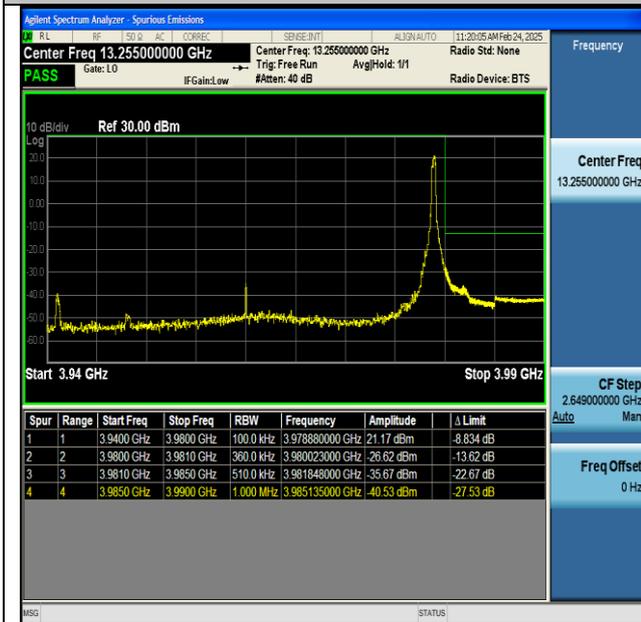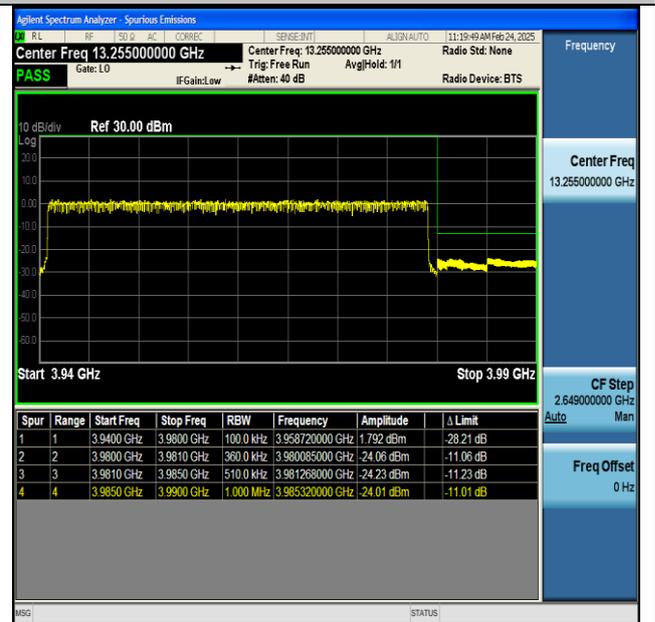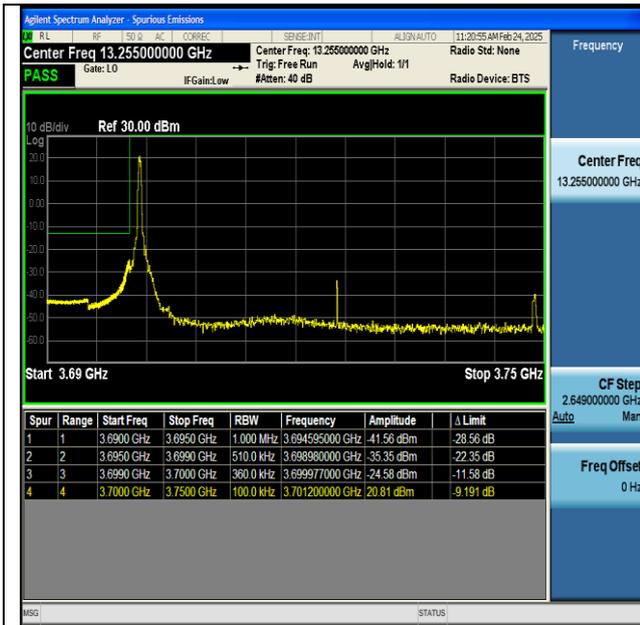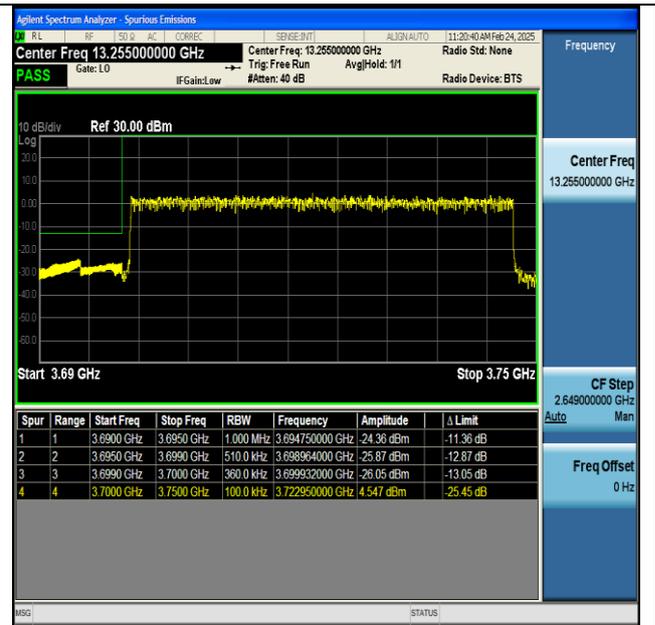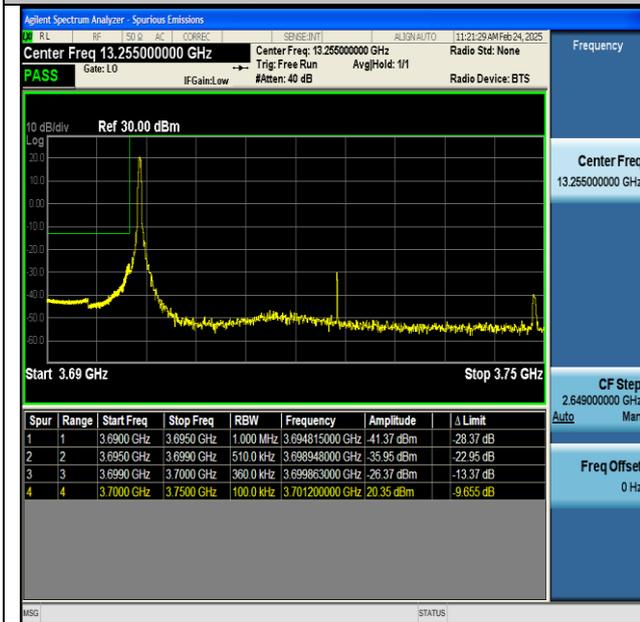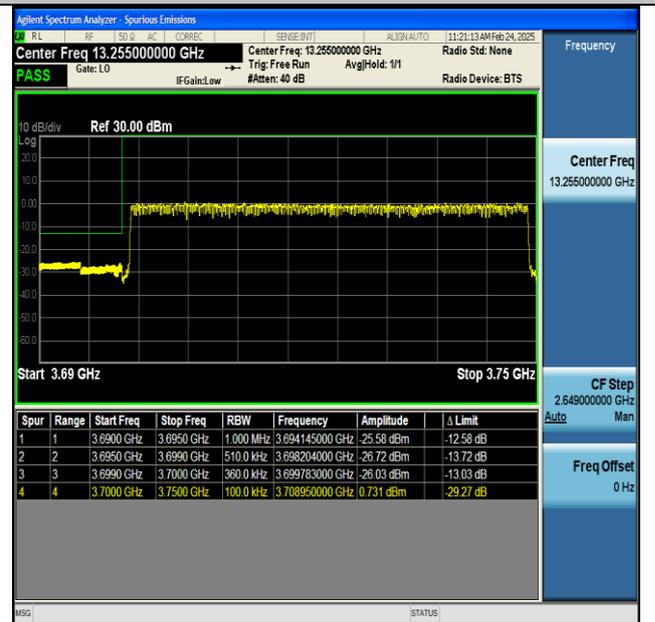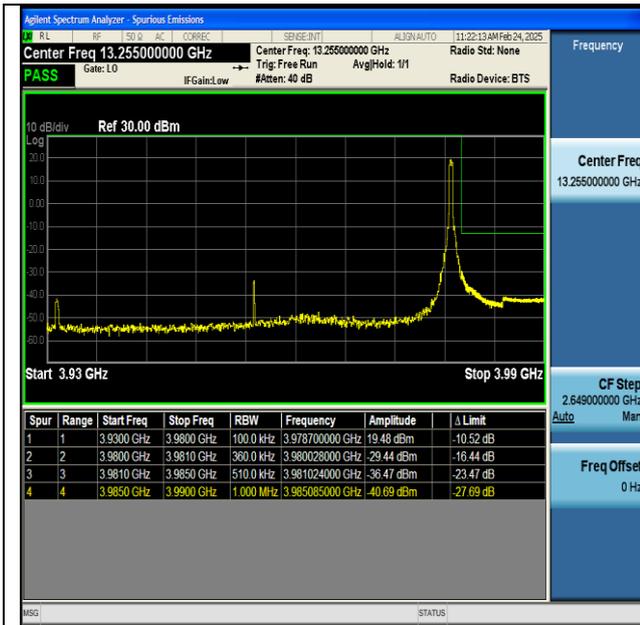NTNV-n77(3700-3980)-PC2-30-50-L-DFT-BPSK-Edge_1RB_Left-PASS
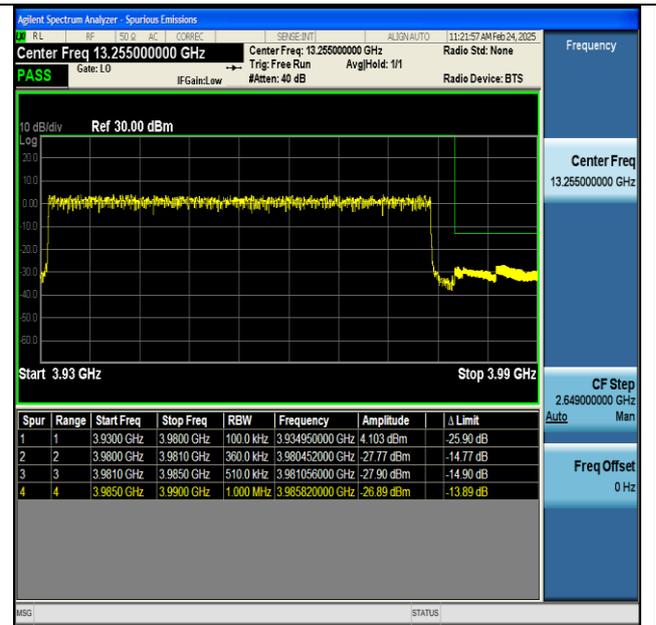

NTNV-n77(3700-3980)-PC2-30-50-L-DFT-BPSK-Outer_Full-PASS

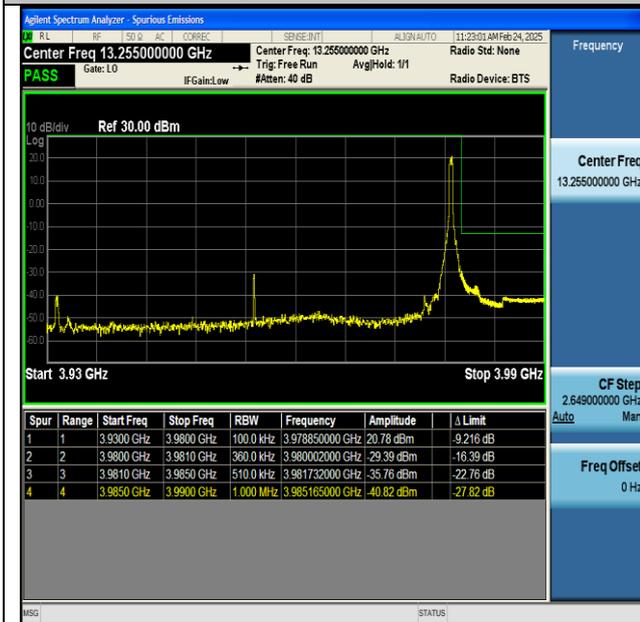
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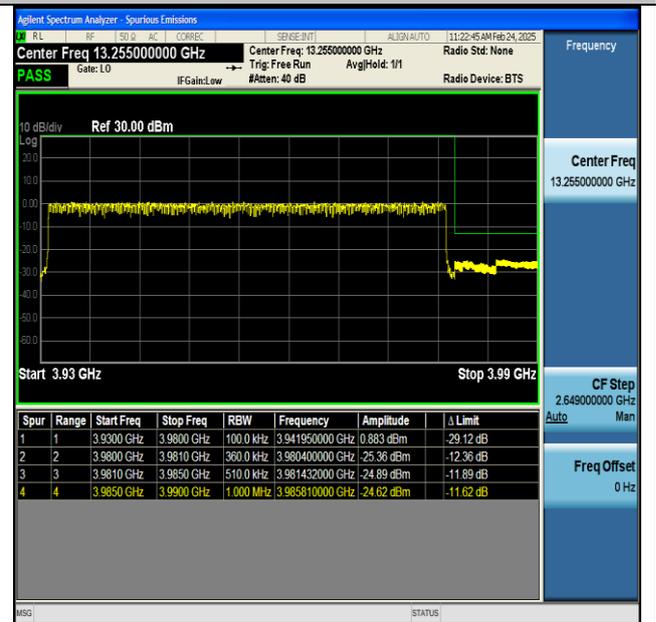

NTNV-n77(3700-3980)-PC2-30-50-L-CP-QPSK-Outer_Full-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.9300 GHz	3.9800 GHz	100.0 kHz	3.978700000 GHz	19.48 dBm	-10.52 dB
2	2	3.9800 GHz	3.9810 GHz	360.0 kHz	3.980028000 GHz	-29.44 dBm	-16.44 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.981024000 GHz	-36.47 dBm	-23.47 dB
4	4	3.9850 GHz	3.9900 GHz	1.000 MHz	3.985085000 GHz	-40.69 dBm	-27.69 dB

NTNV-n77(3700-3980)-PC2-30-50-H-DFT-BPSK-Edge_1RB_Right-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.9300 GHz	3.9800 GHz	100.0 kHz	3.934950000 GHz	4.103 dBm	-25.90 dB
2	2	3.9800 GHz	3.9810 GHz	360.0 kHz	3.980452000 GHz	-27.77 dBm	-14.77 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.981056000 GHz	-27.90 dBm	-14.90 dB
4	4	3.9850 GHz	3.9900 GHz	1.000 MHz	3.985820000 GHz	-26.89 dBm	-13.89 dB

NTNV-n77(3700-3980)-PC2-30-50-H-DFT-BPSK-Outer_Full-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.9300 GHz	3.9800 GHz	100.0 kHz	3.978850000 GHz	20.78 dBm	-9.216 dB
2	2	3.9800 GHz	3.9810 GHz	360.0 kHz	3.980002000 GHz	-29.39 dBm	-16.39 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.981732000 GHz	-35.76 dBm	-22.76 dB
4	4	3.9850 GHz	3.9900 GHz	1.000 MHz	3.985165000 GHz	-40.82 dBm	-27.82 dB

NTNV-n77(3700-3980)-PC2-30-50-H-CP-QPSK-Edge_1RB_Right-PASS

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.9300 GHz	3.9800 GHz	100.0 kHz	3.941950000 GHz	0.883 dBm	-29.12 dB
2	2	3.9800 GHz	3.9810 GHz	360.0 kHz	3.980400000 GHz	-25.36 dBm	-12.36 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.981432000 GHz	-24.89 dBm	-11.89 dB
4	4	3.9850 GHz	3.9900 GHz	1.000 MHz	3.985810000 GHz	-24.62 dBm	-11.62 dB

NTNV-n77(3700-3980)-PC2-30-50-H-CP-QPSK-Outer_Full-PASS

NTNV-n77(3700-3980)-PC2-30-60-L-DFT-BPSK-
Edge_1RB_Left-PASS

NTNV-n77(3700-3980)-PC2-30-60-L-DFT-BPSK-
Outer_Full-PASS

NTNV-n77(3700-3980)-PC2-30-60-L-CP-QPSK-
Edge_1RB_Left-PASS

NTNV-n77(3700-3980)-PC2-30-60-L-CP-QPSK-
Outer_Full-PASS

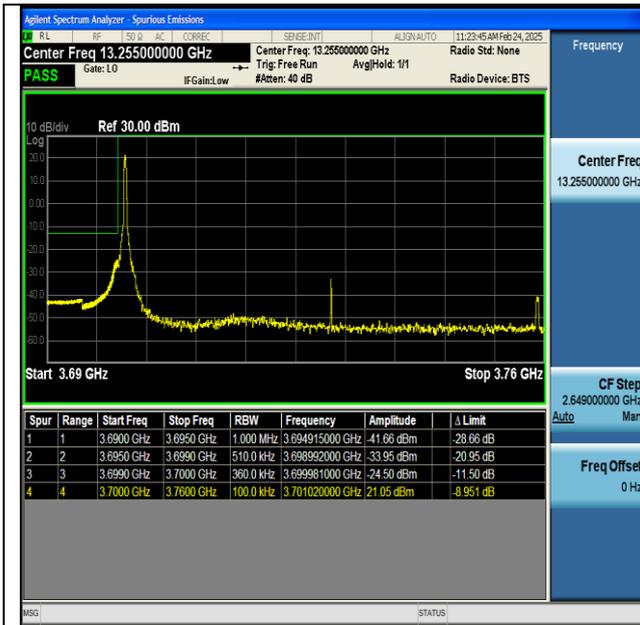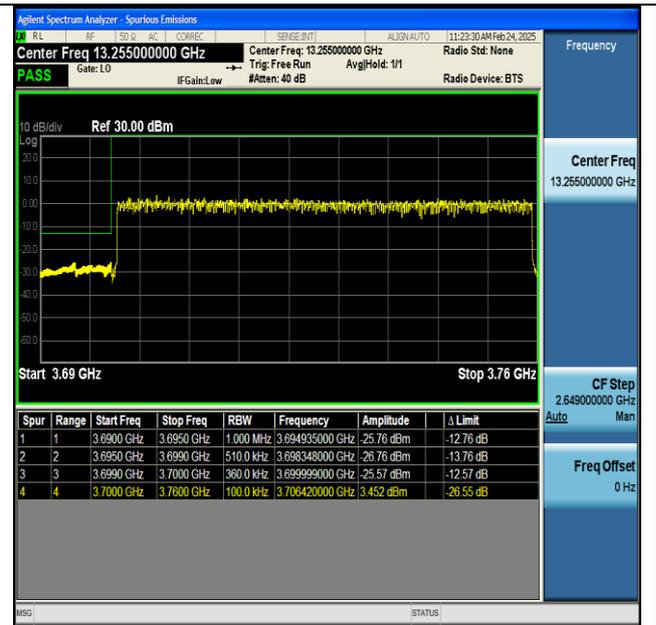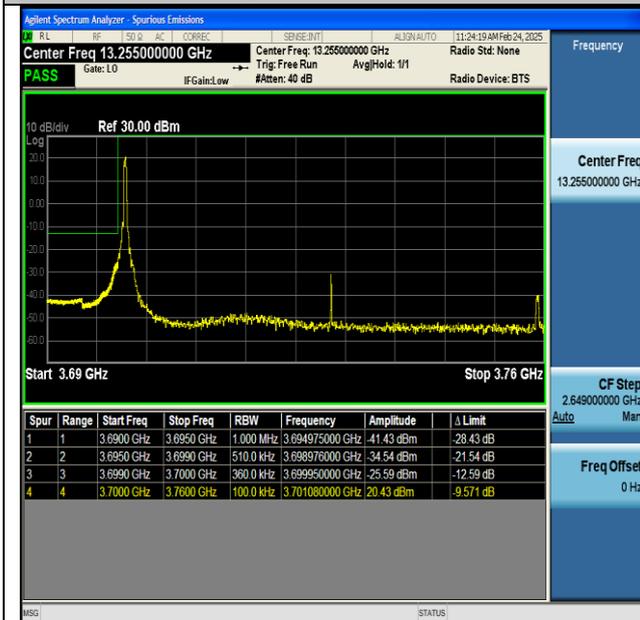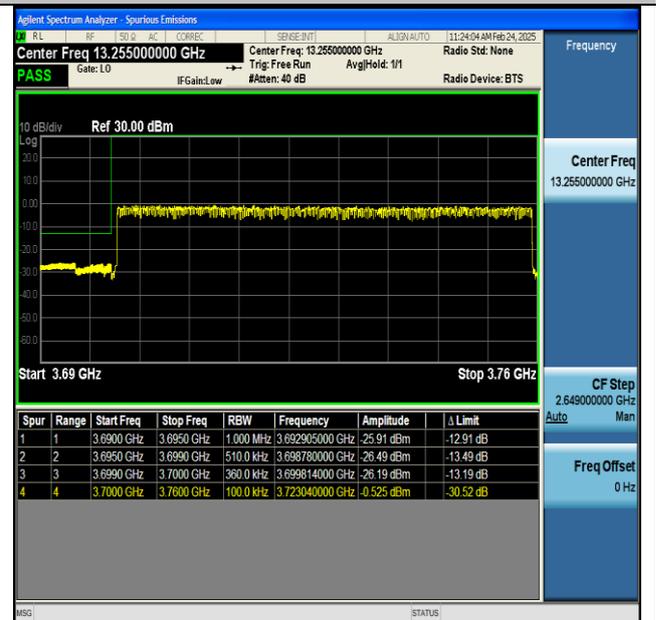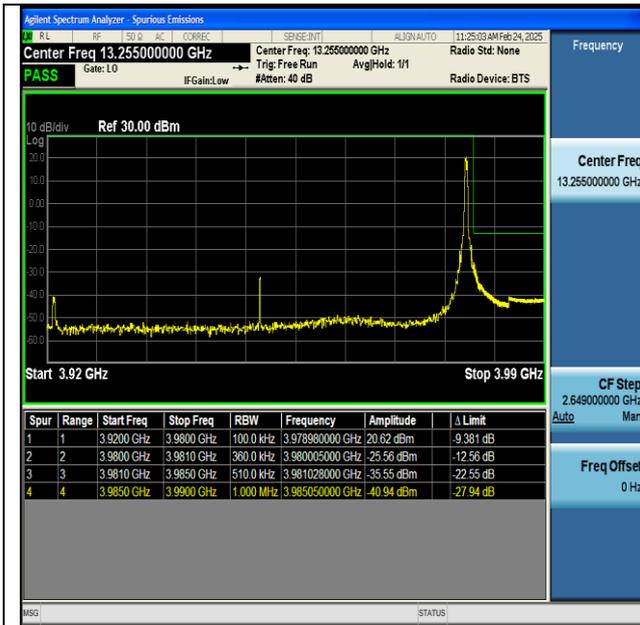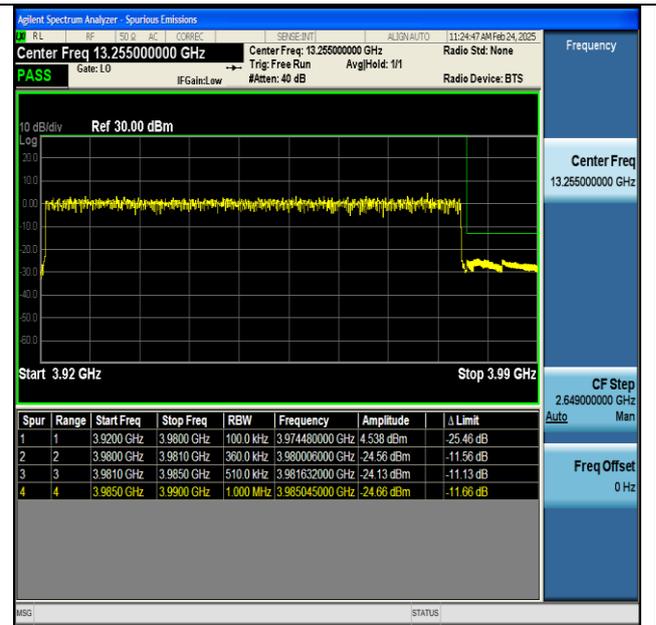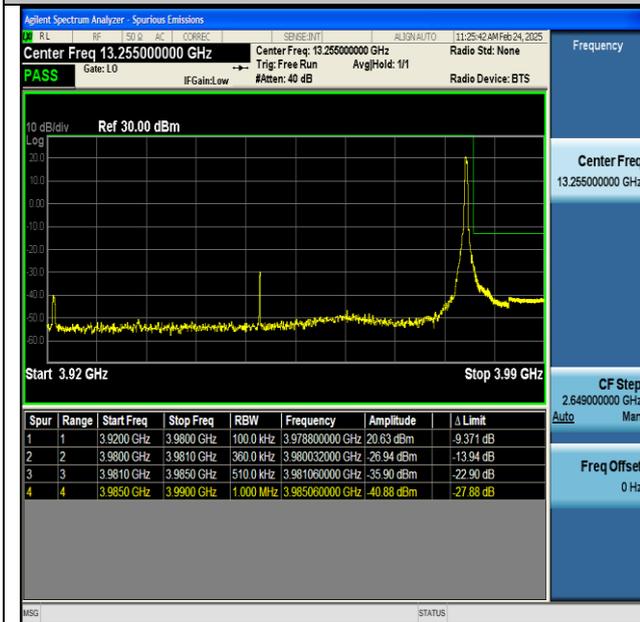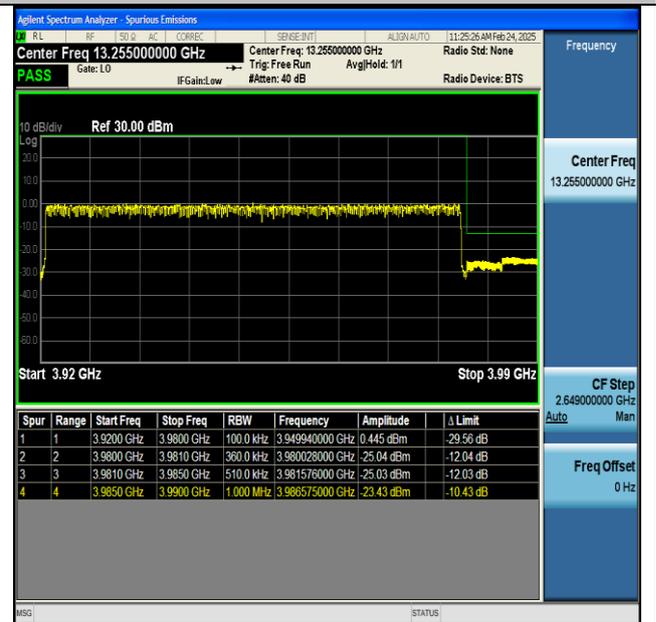NTNV-n77(3700-3980)-PC2-30-60-H-DFT-BPSK-
Edge_1RB_Right-PASS

NTNV-n77(3700-3980)-PC2-30-60-H-DFT-BPSK-
Outer_Full-PASS

NTNV-n77(3700-3980)-PC2-30-60-H-CP-QPSK-
Edge_1RB_Right-PASS

NTNV-n77(3700-3980)-PC2-30-60-H-CP-QPSK-
Outer_Full-PASS