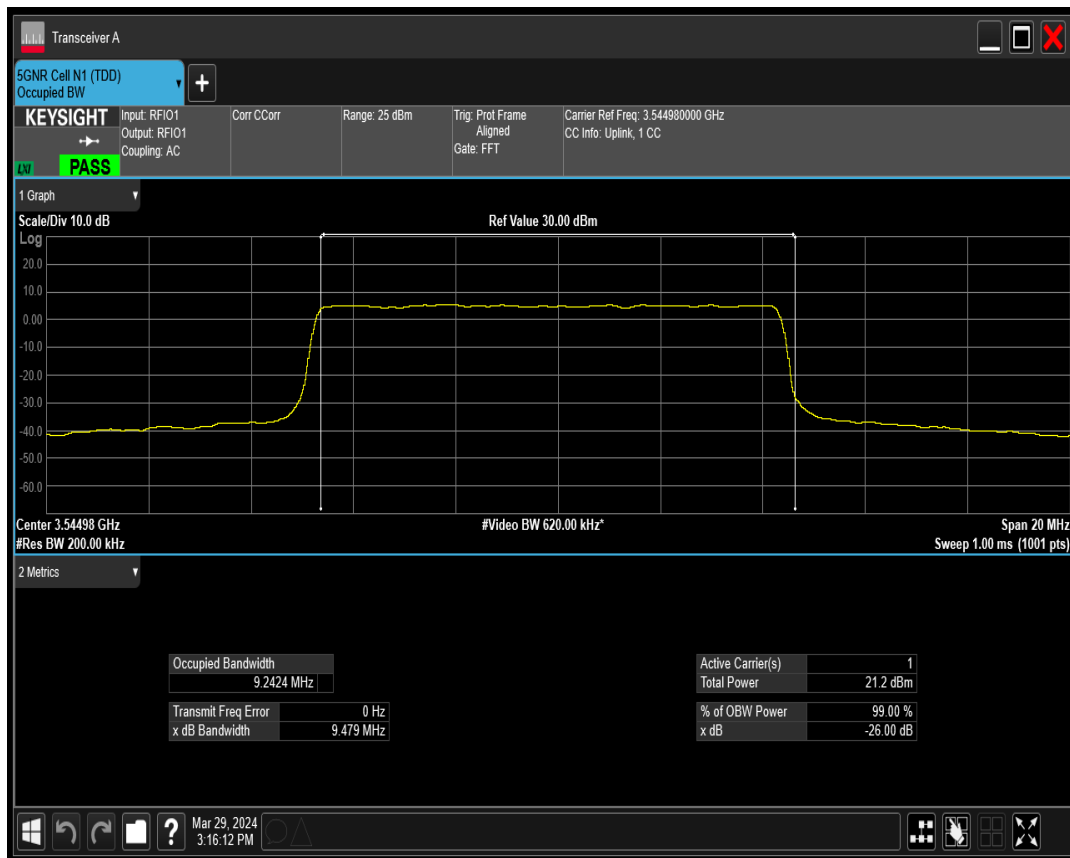
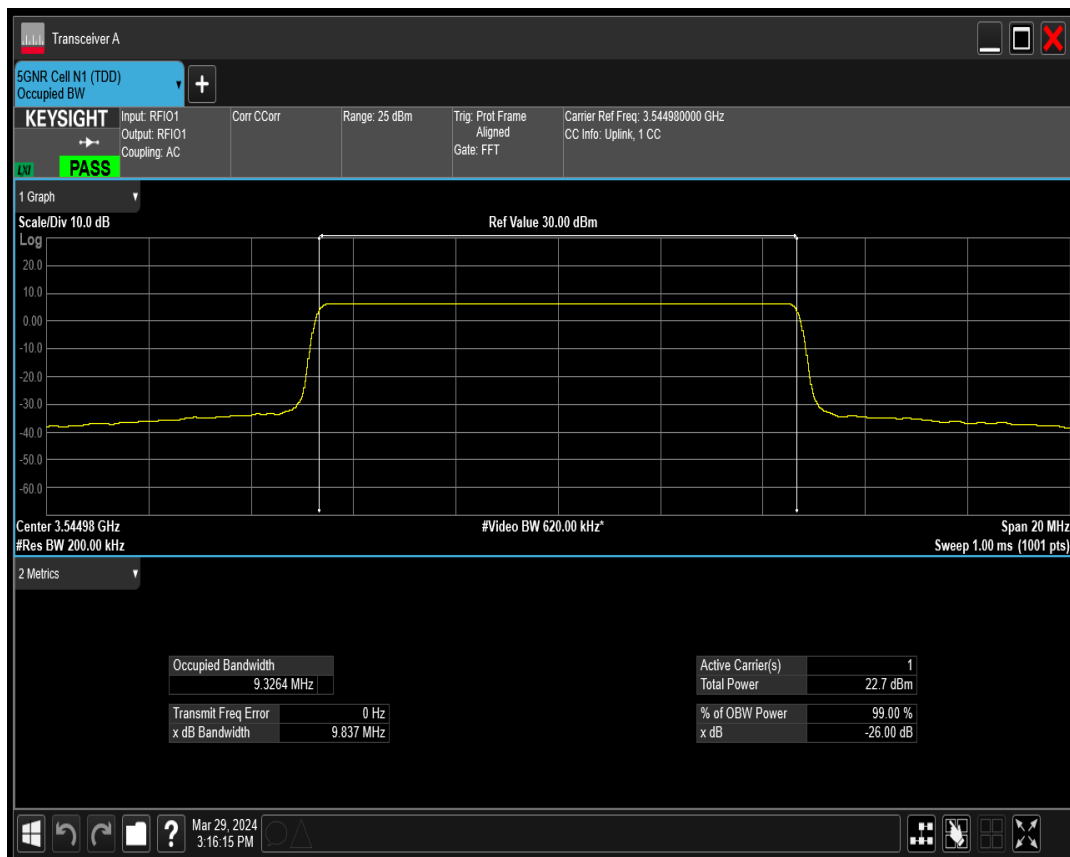


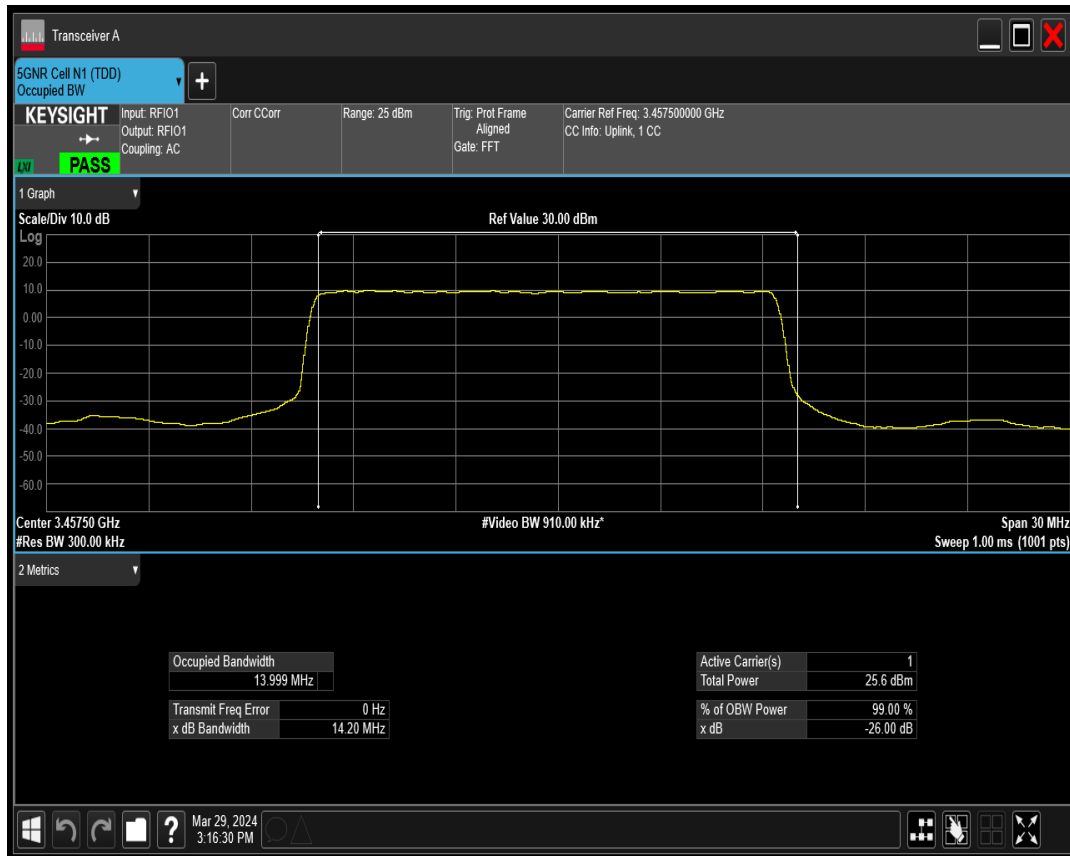
n77(3450-3550) SCS=15kHz DFT_QAM256 BW=10MHz Channel=636332 RB=50@0



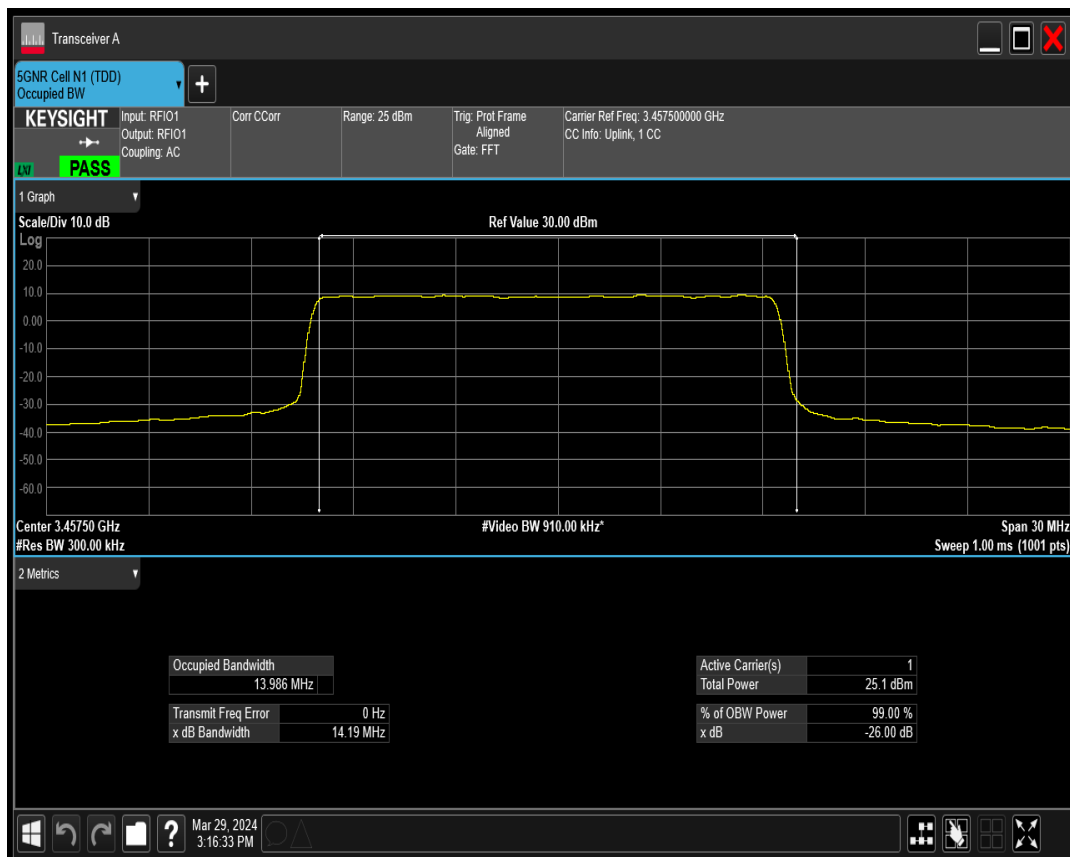
n77(3450-3550) SCS=15kHz CP_QPSK BW=10MHz Channel=636332 RB=52@0



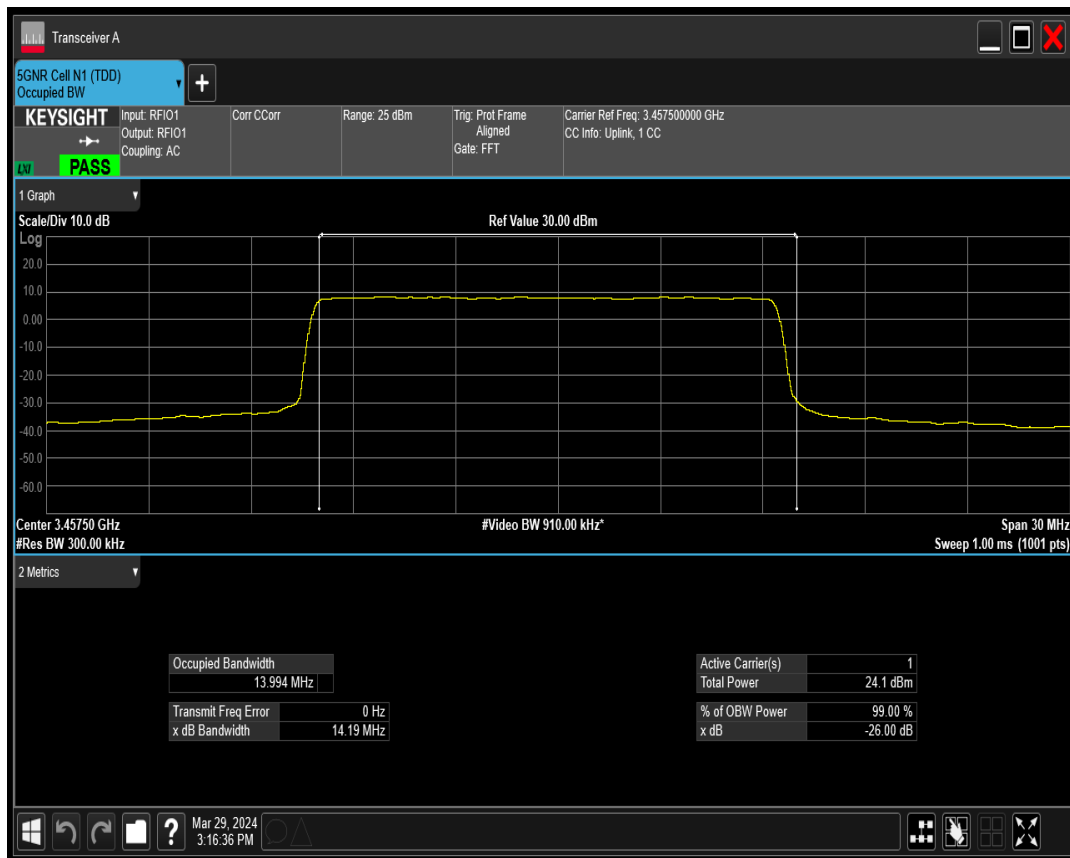
n77(3450-3550) SCS=15kHz DFT_BPSK BW=15MHz Channel=630500 RB=75@0



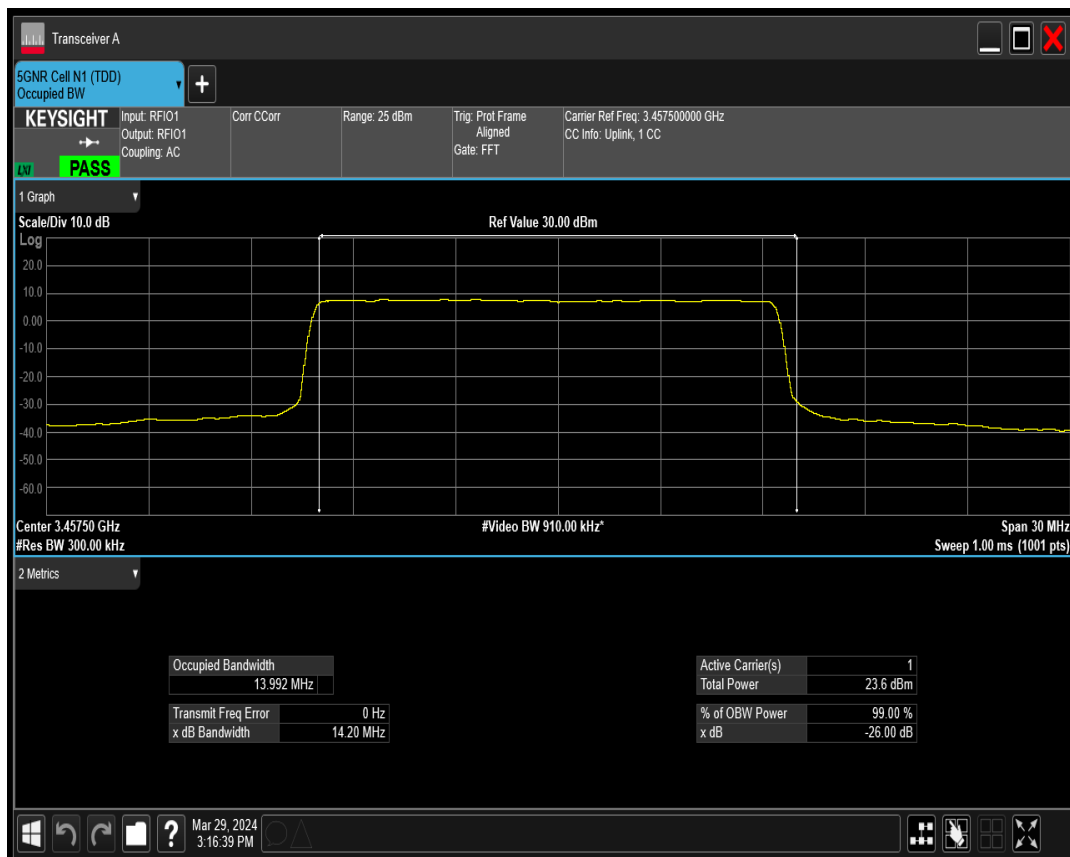
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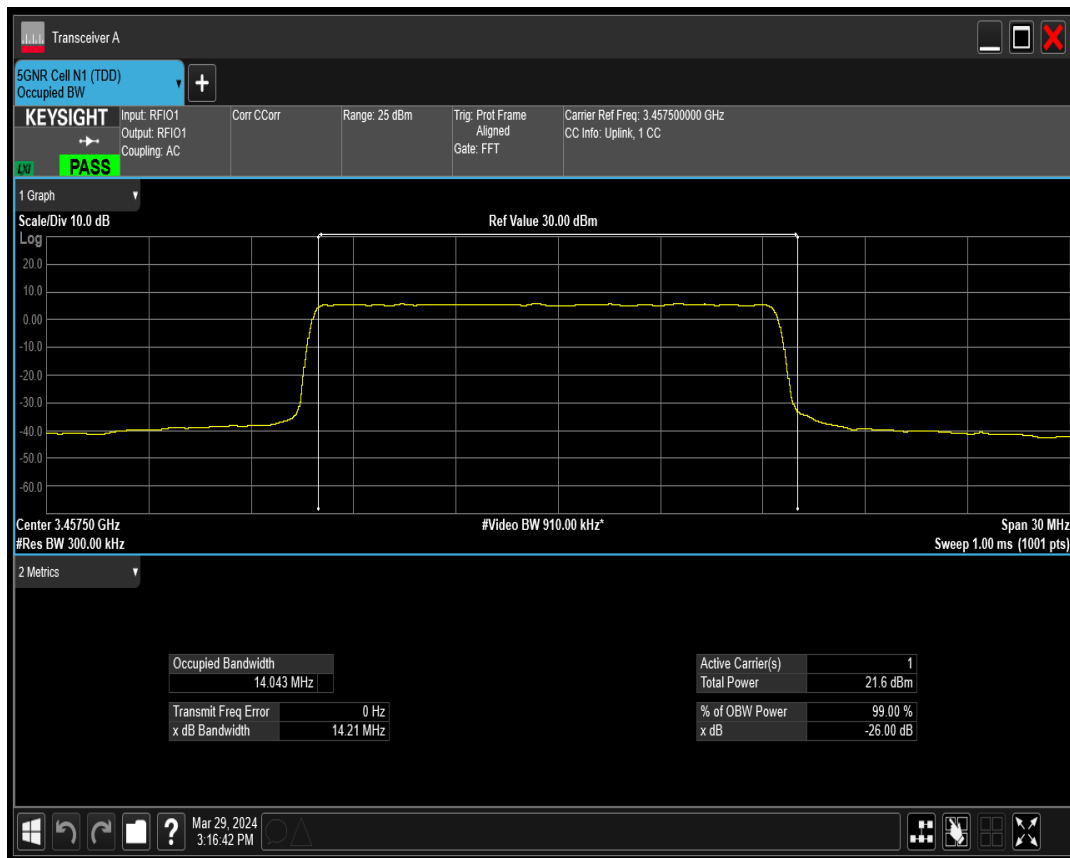
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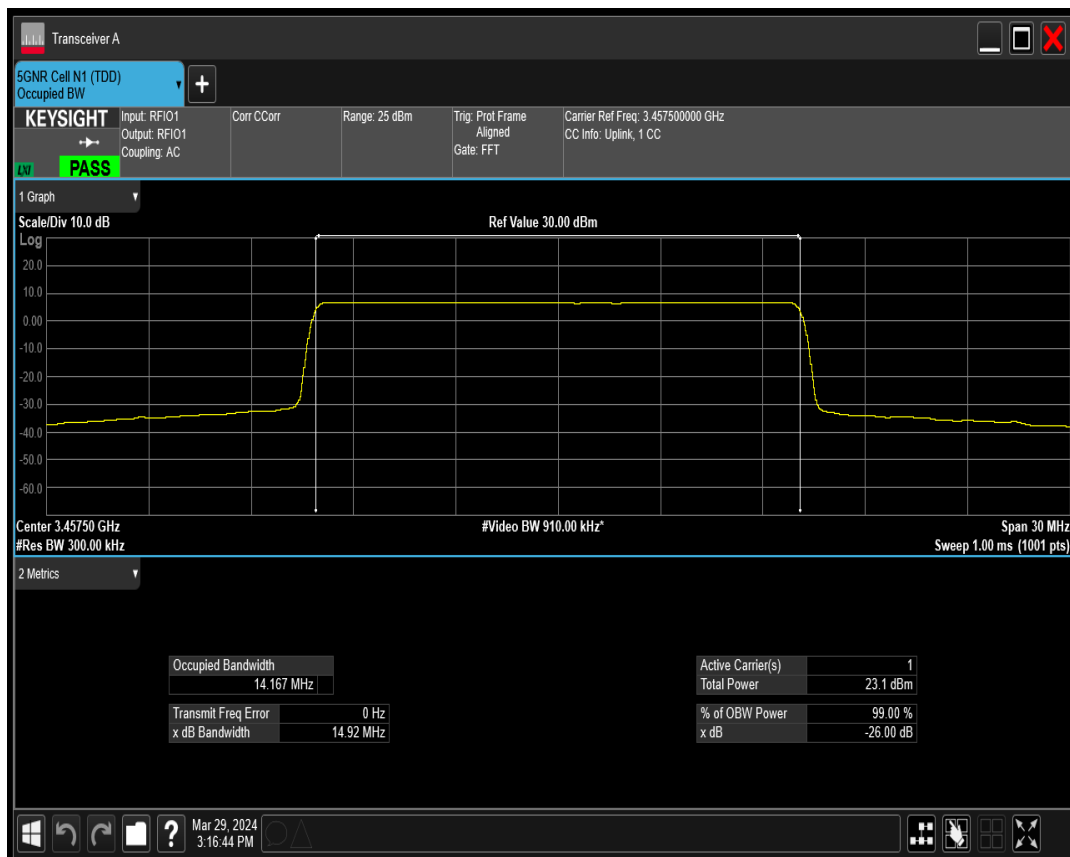
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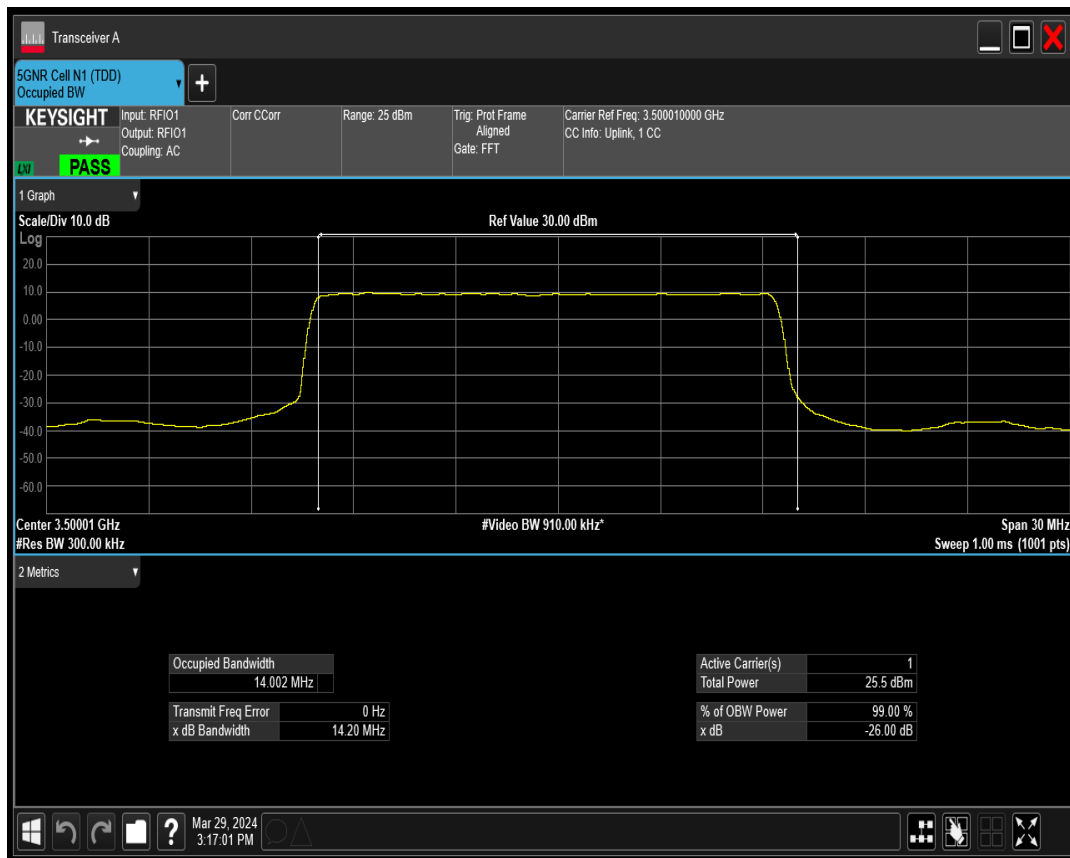
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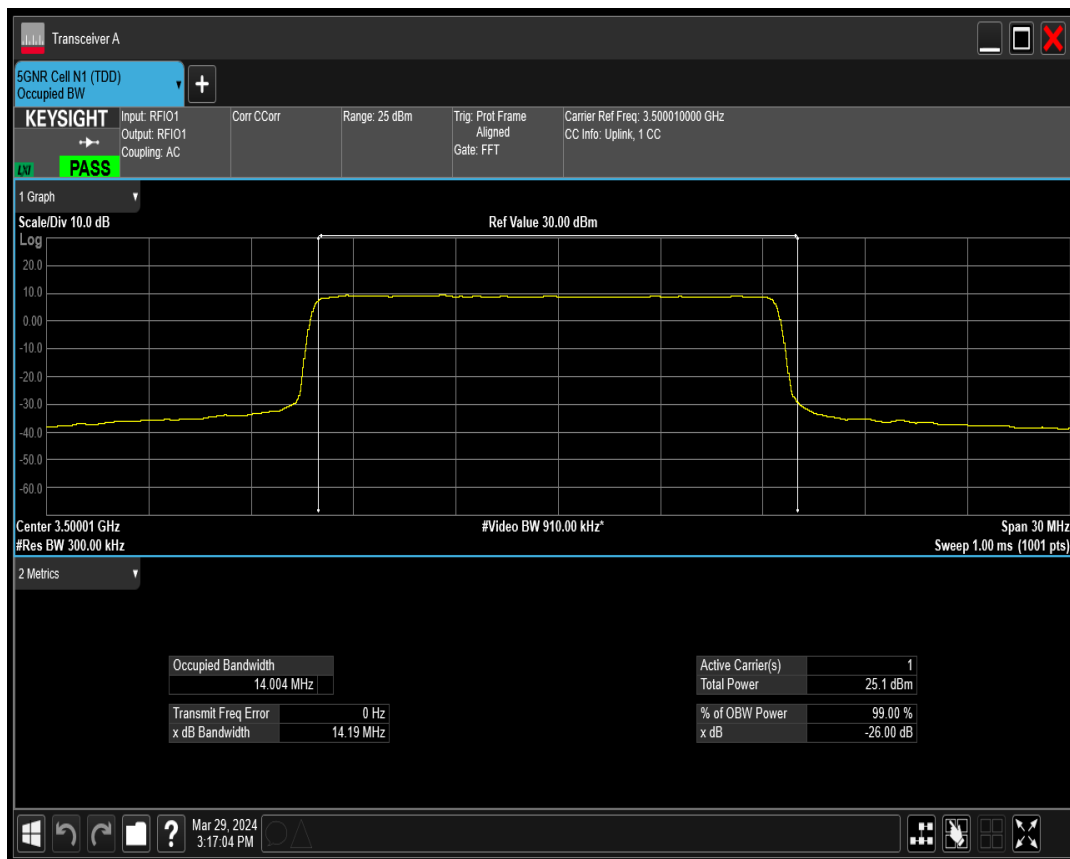
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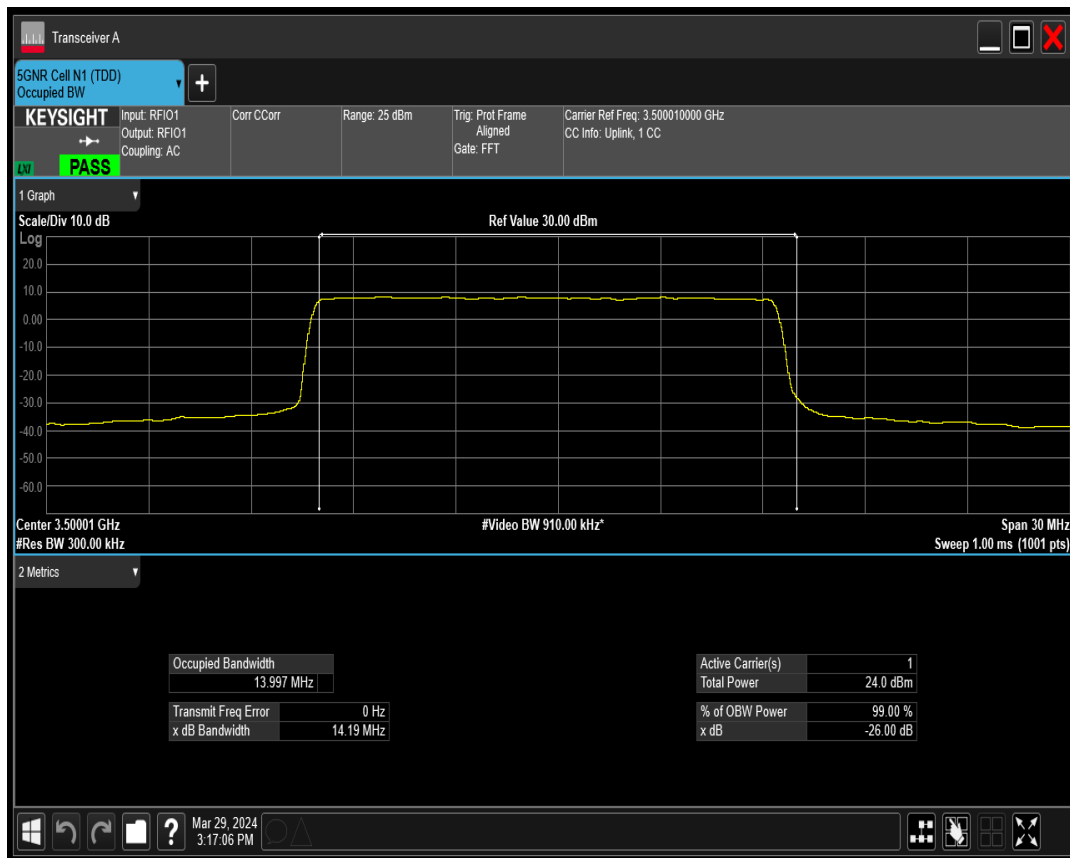
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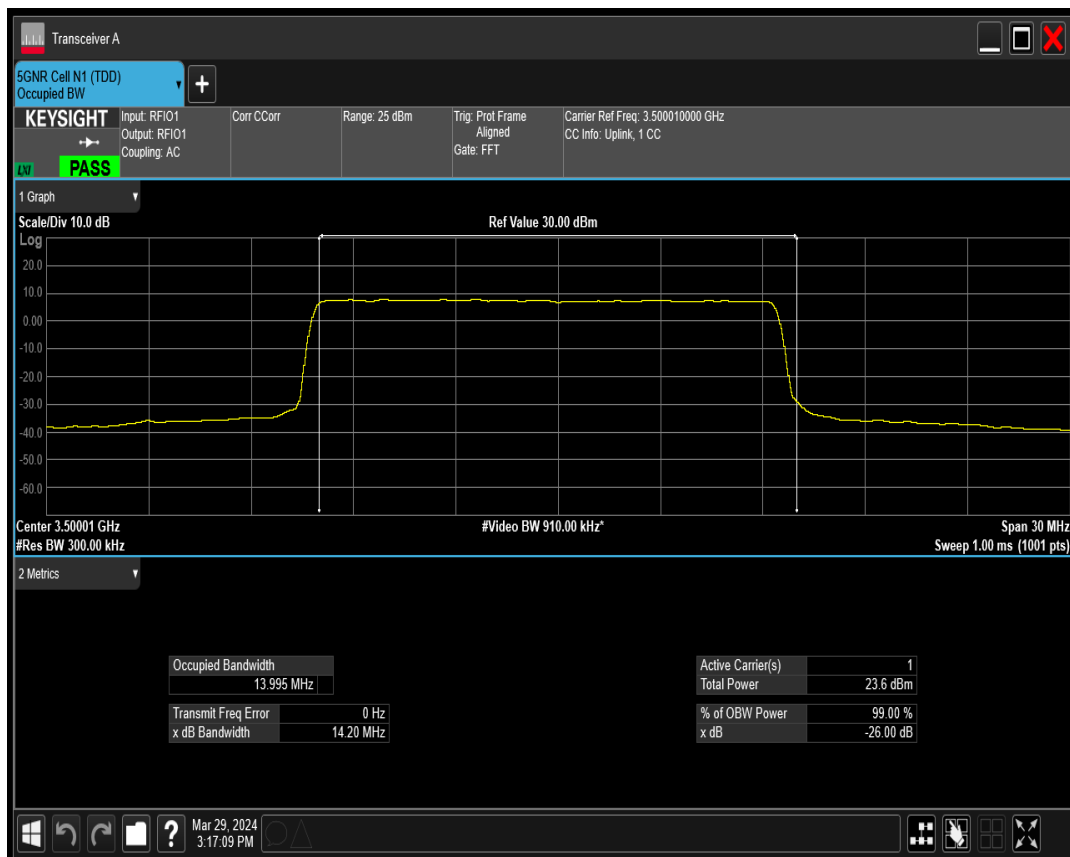
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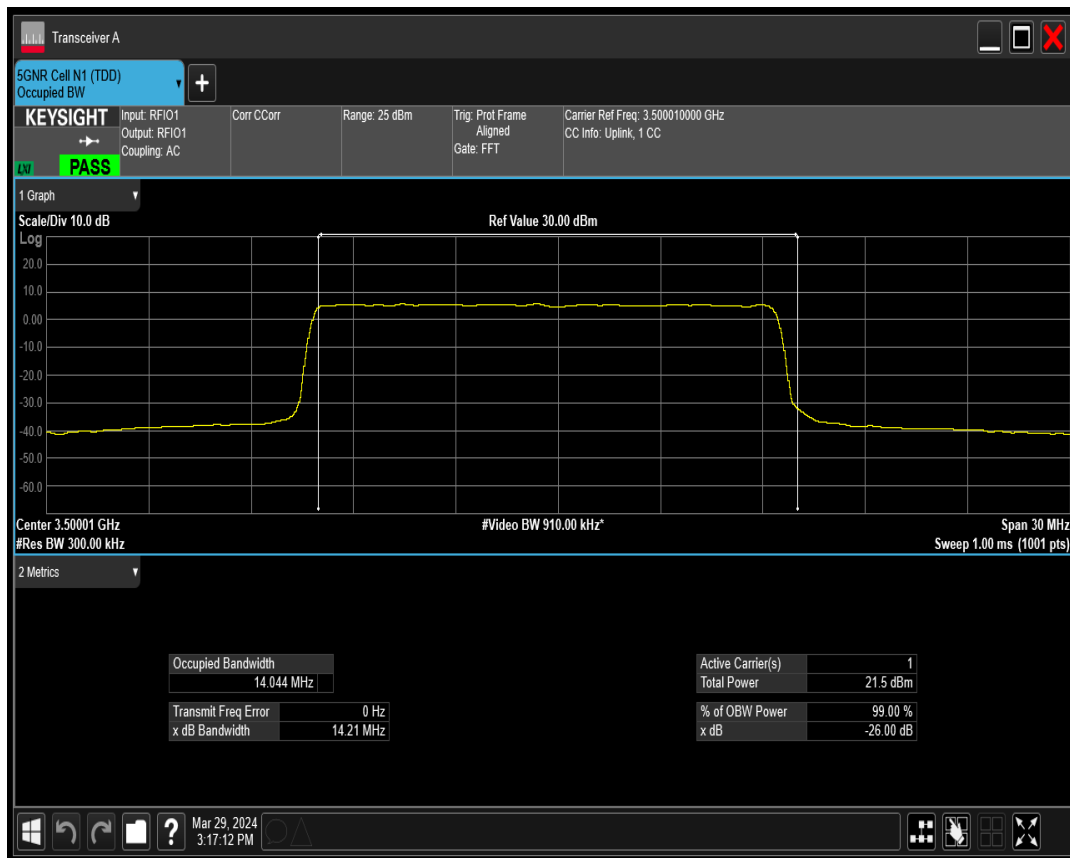
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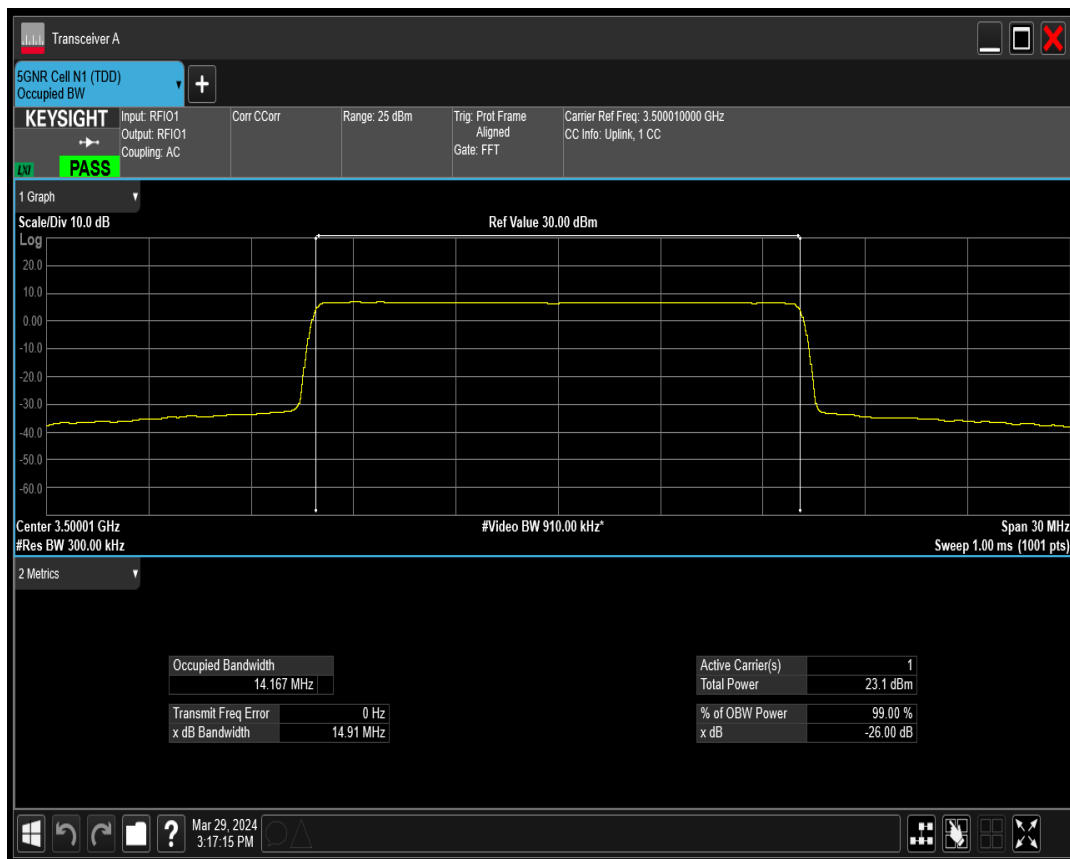
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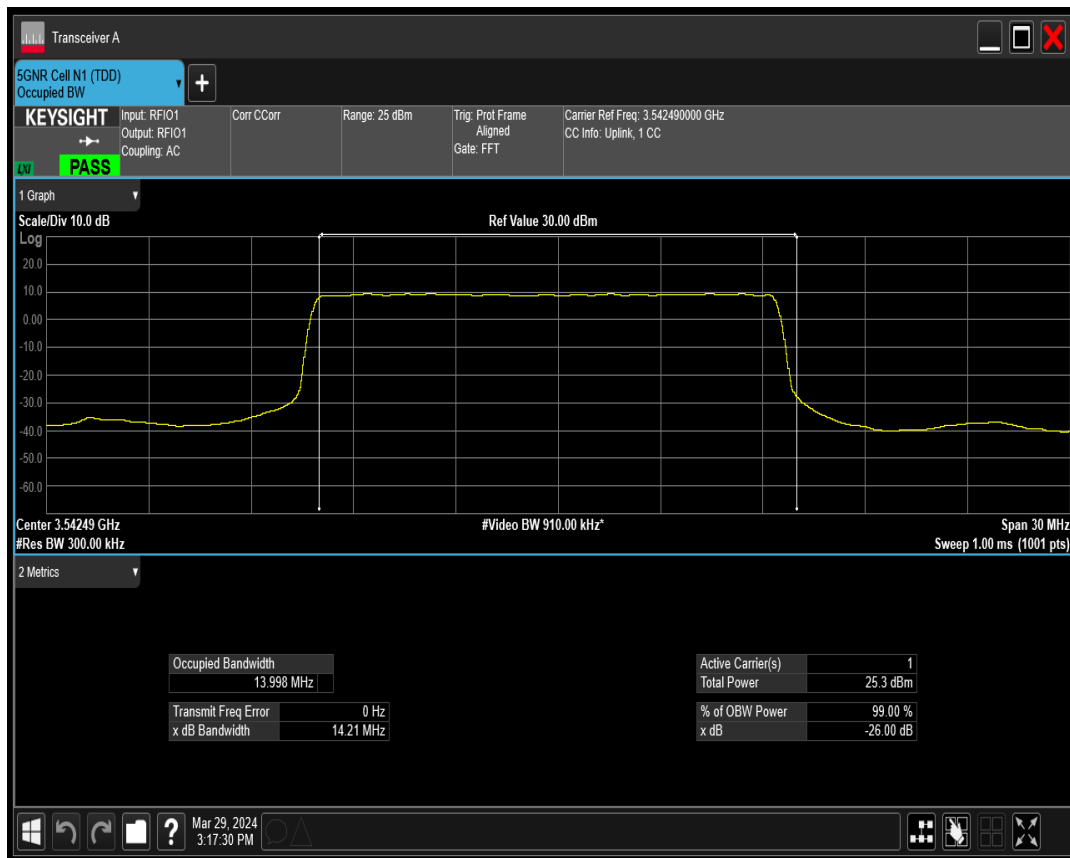
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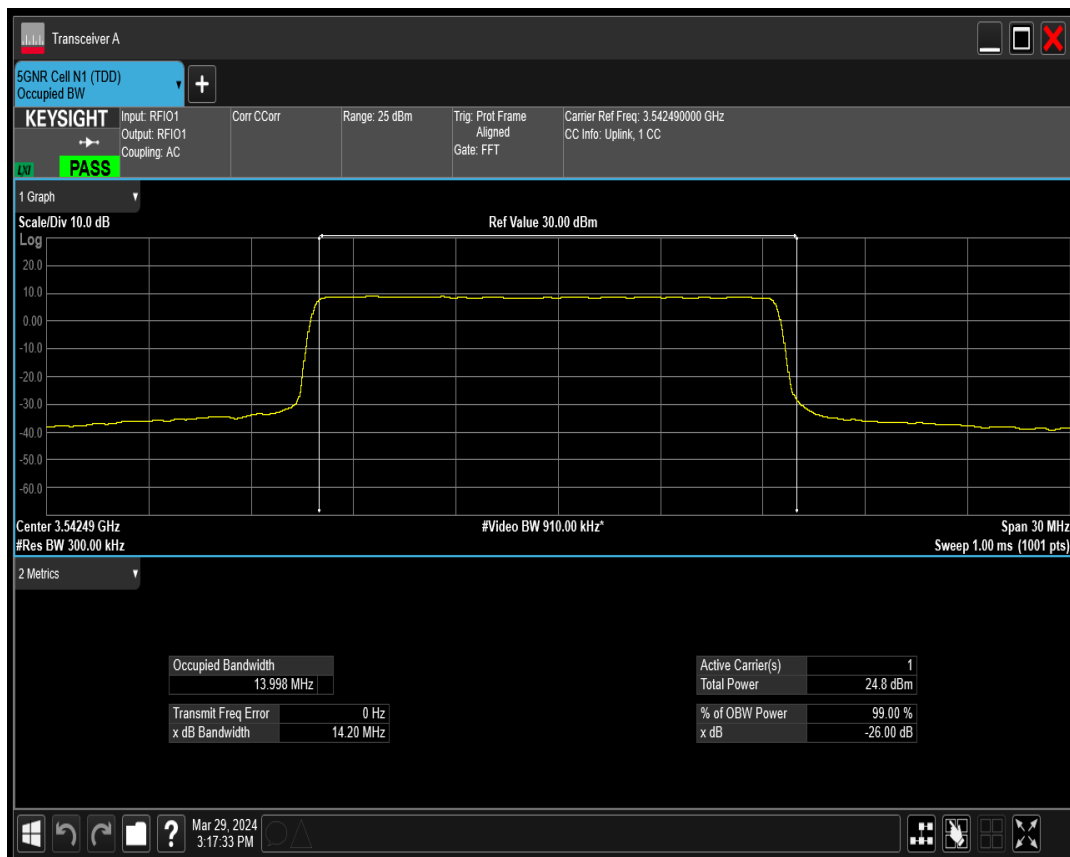
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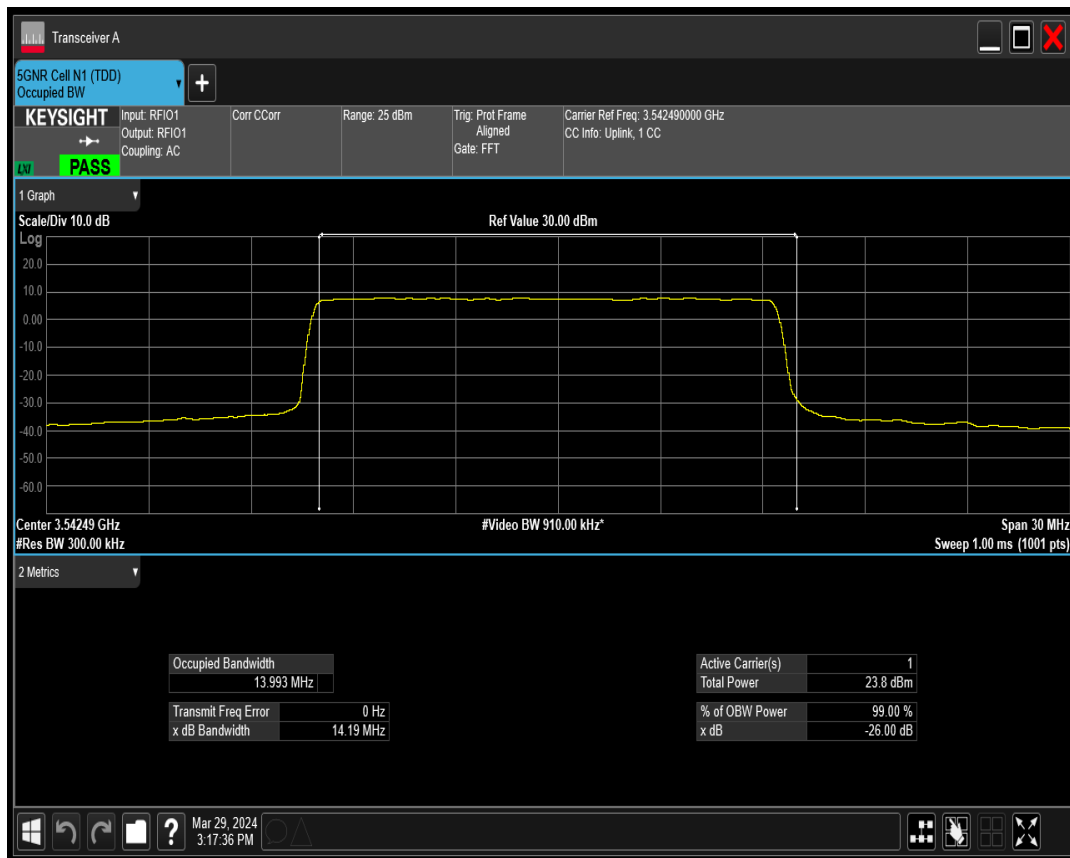
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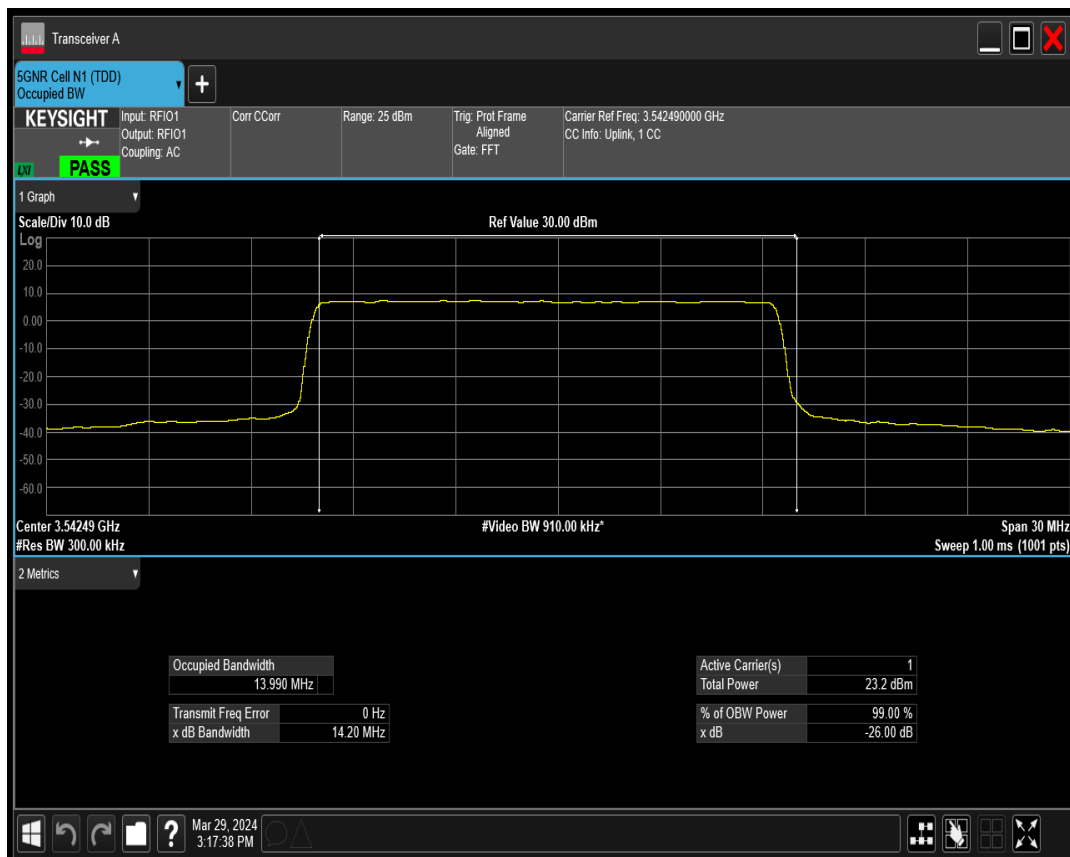
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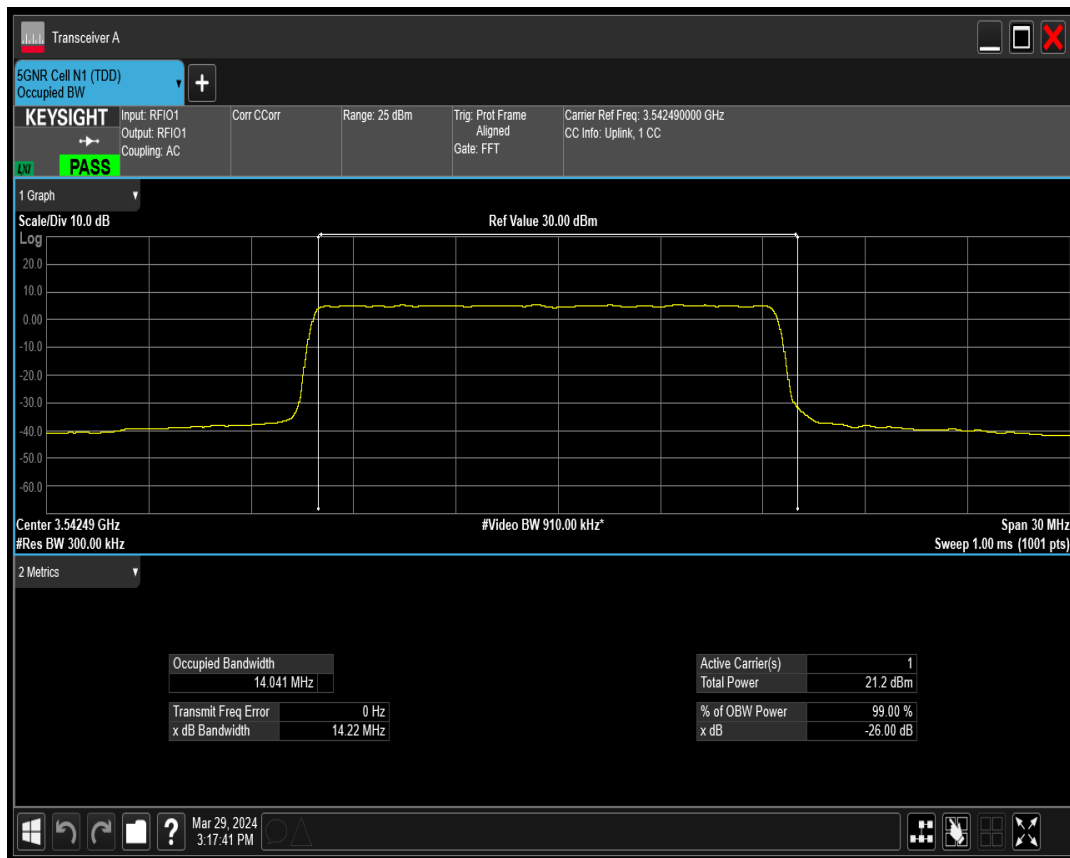
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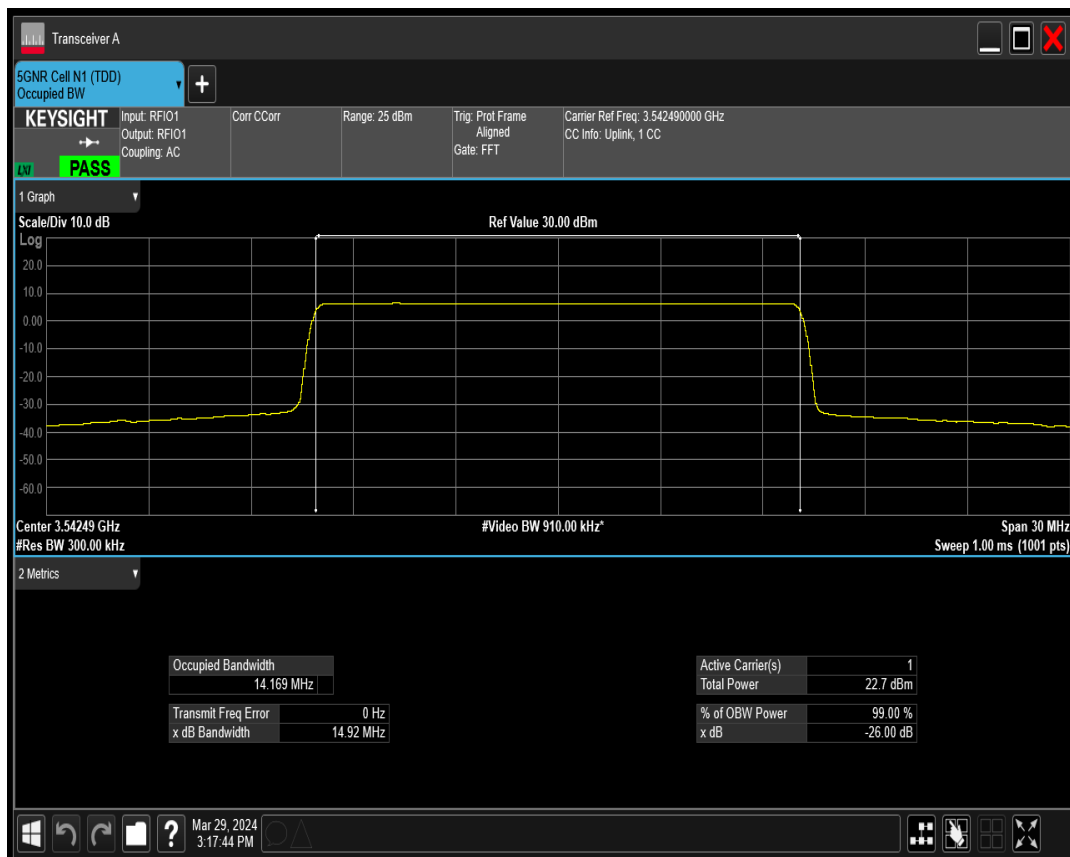
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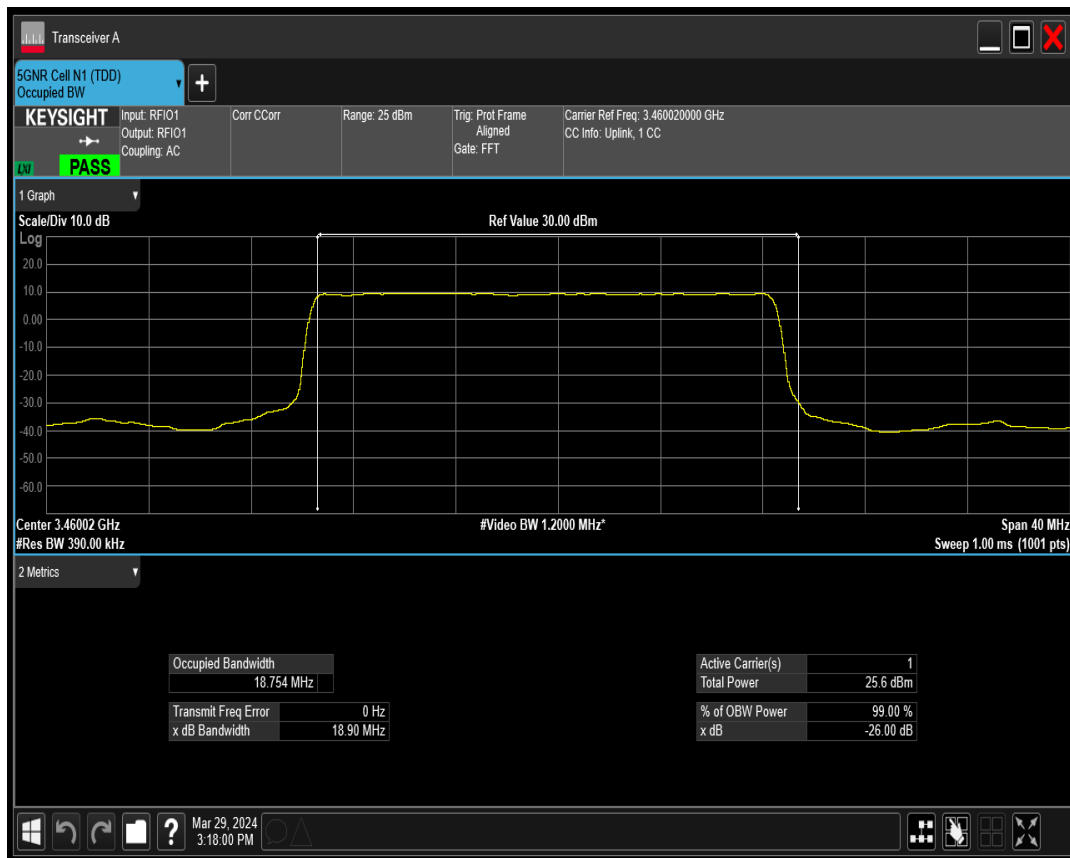
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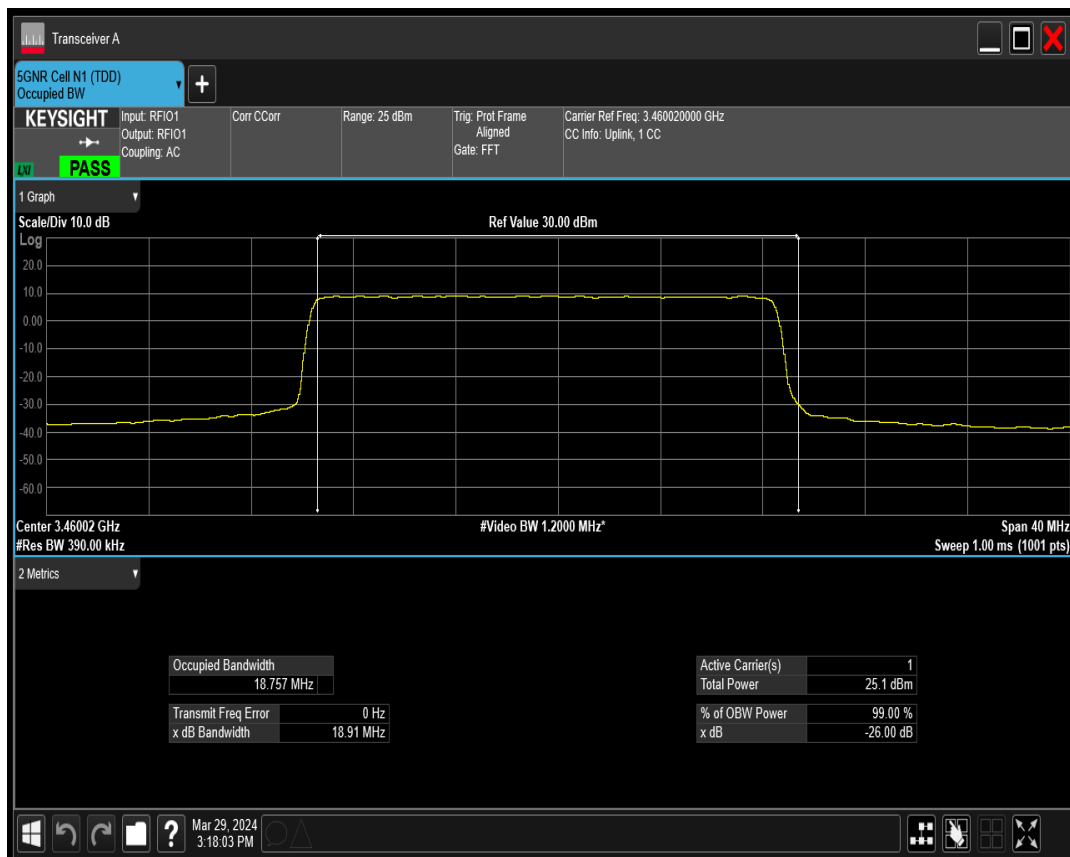
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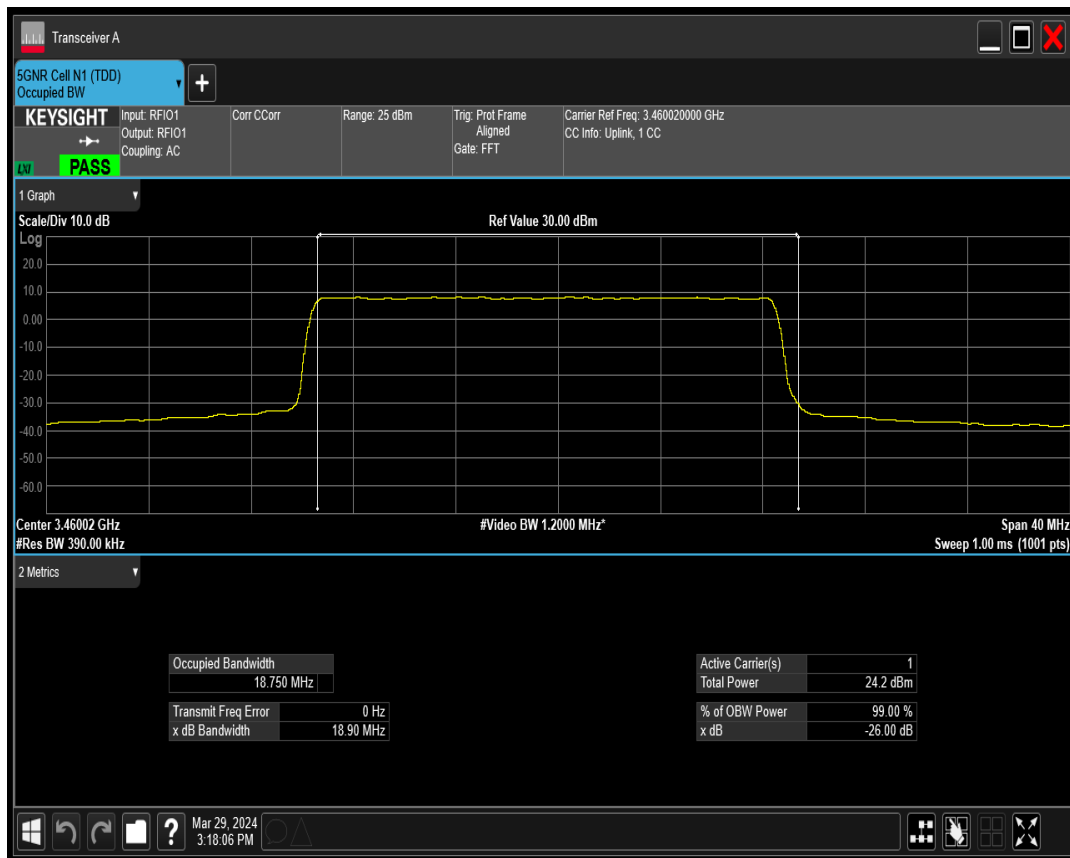
n77(3450-3550) SCS=15kHz DFT_BPSK BW=20MHz Channel=630668 RB=100@0



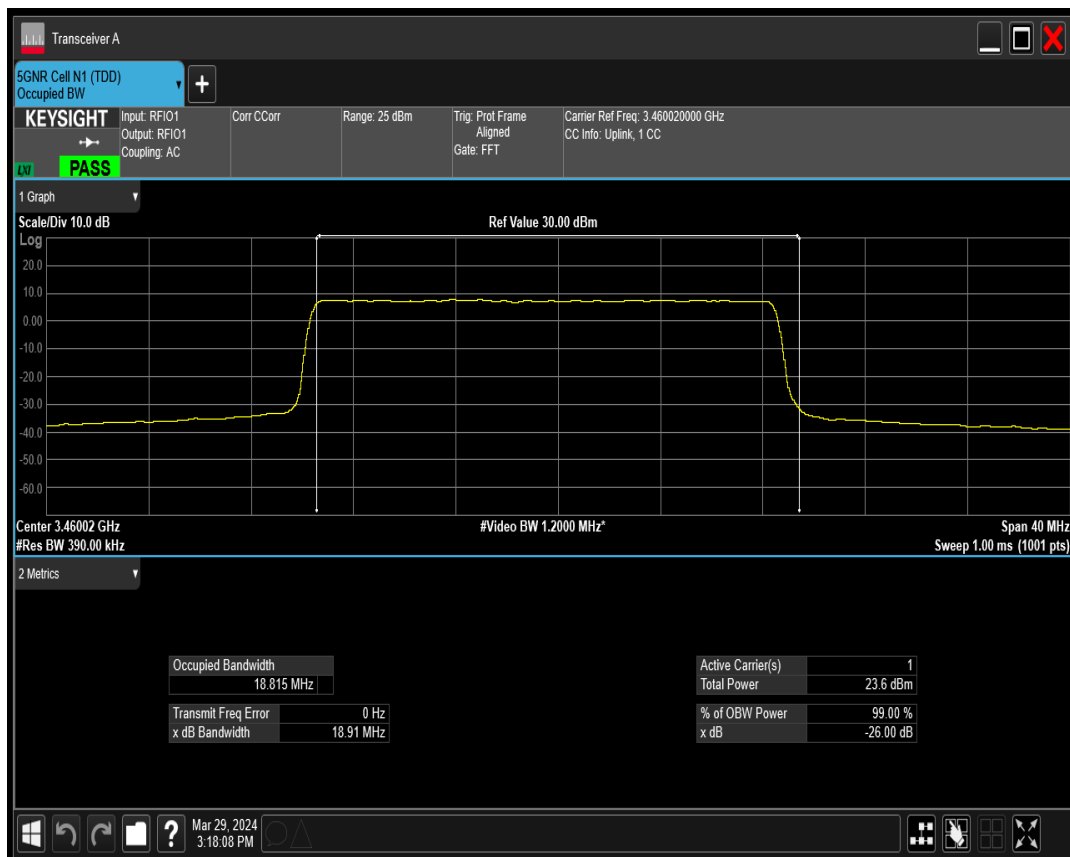
n77(3450-3550) SCS=15kHz DFT_QPSK BW=20MHz Channel=630668 RB=100@0



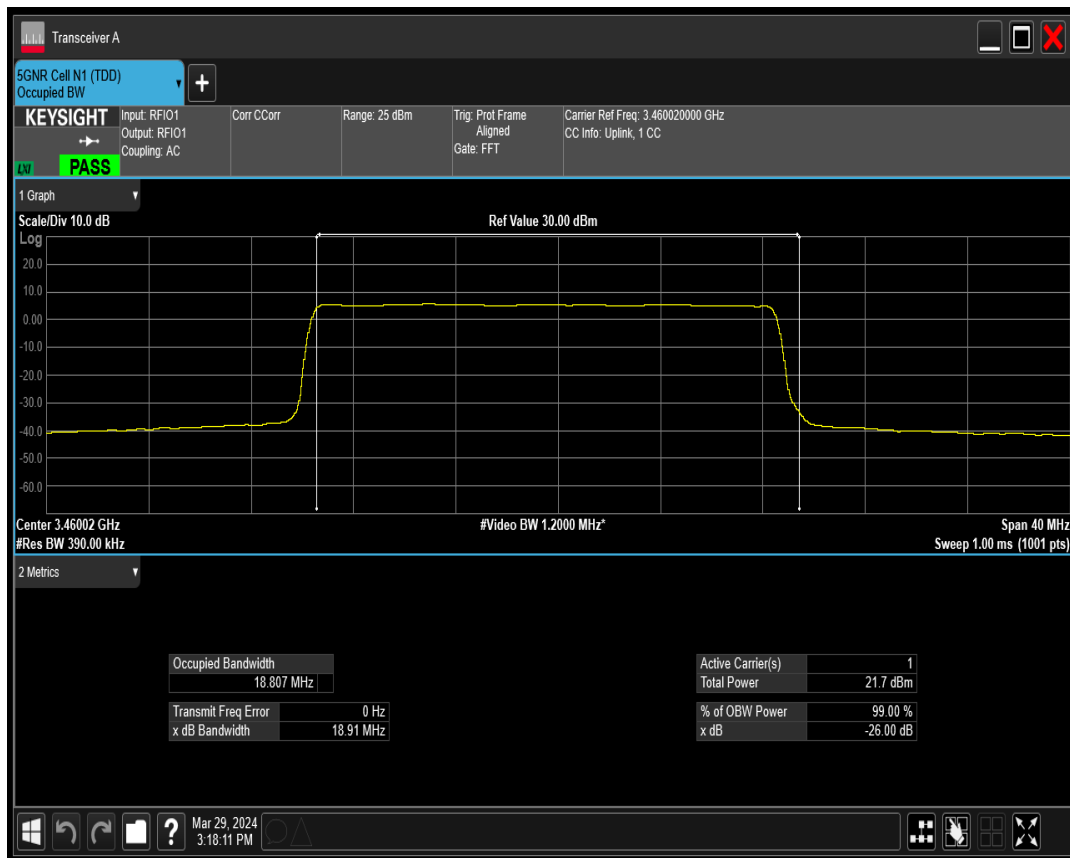
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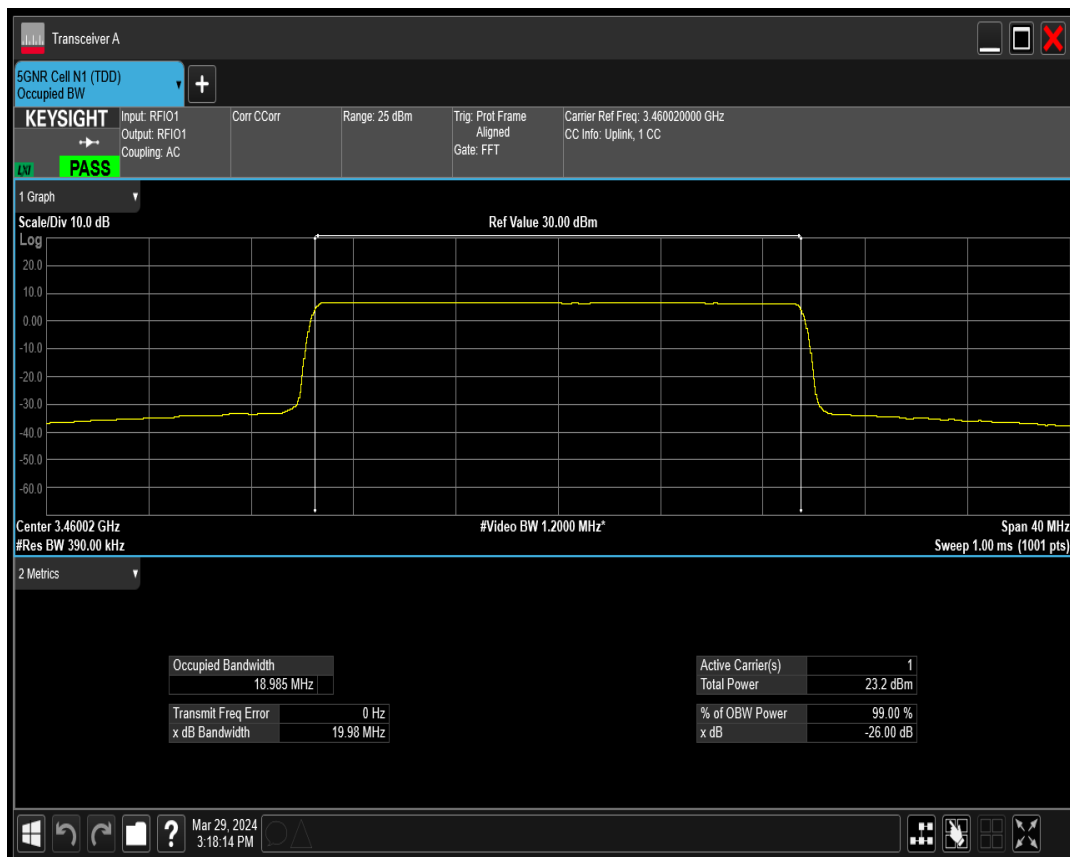
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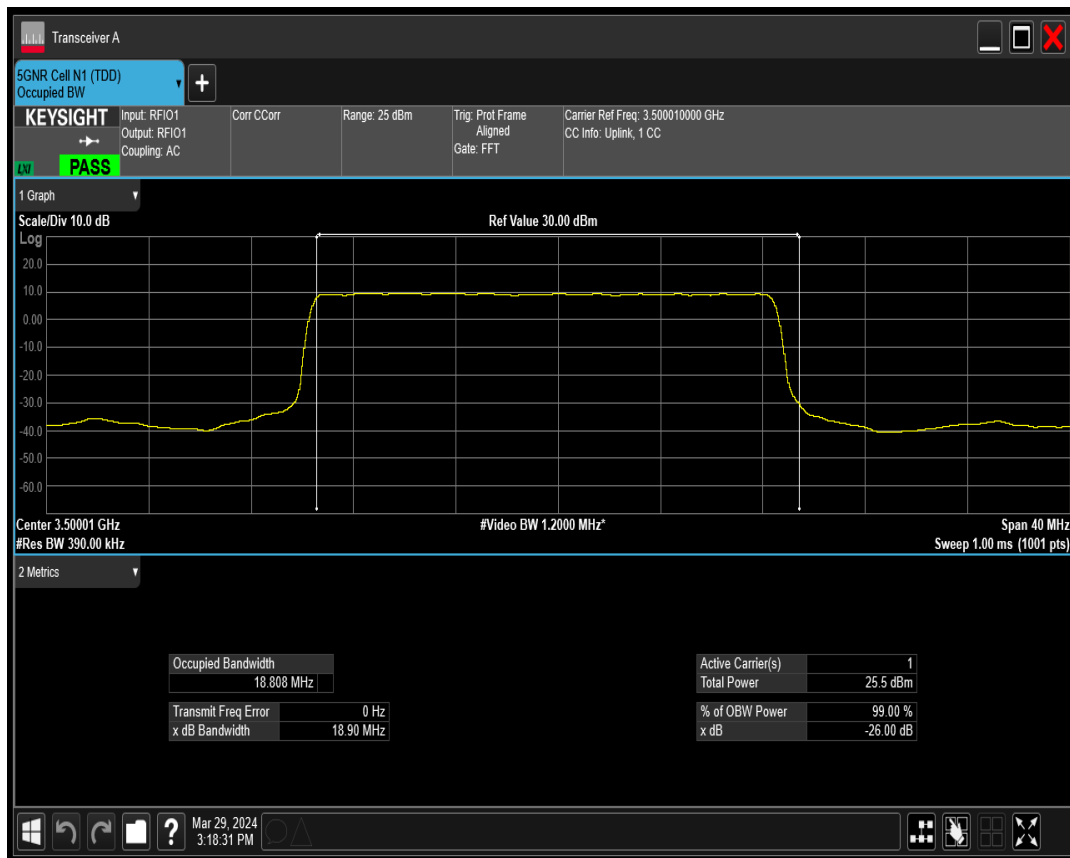
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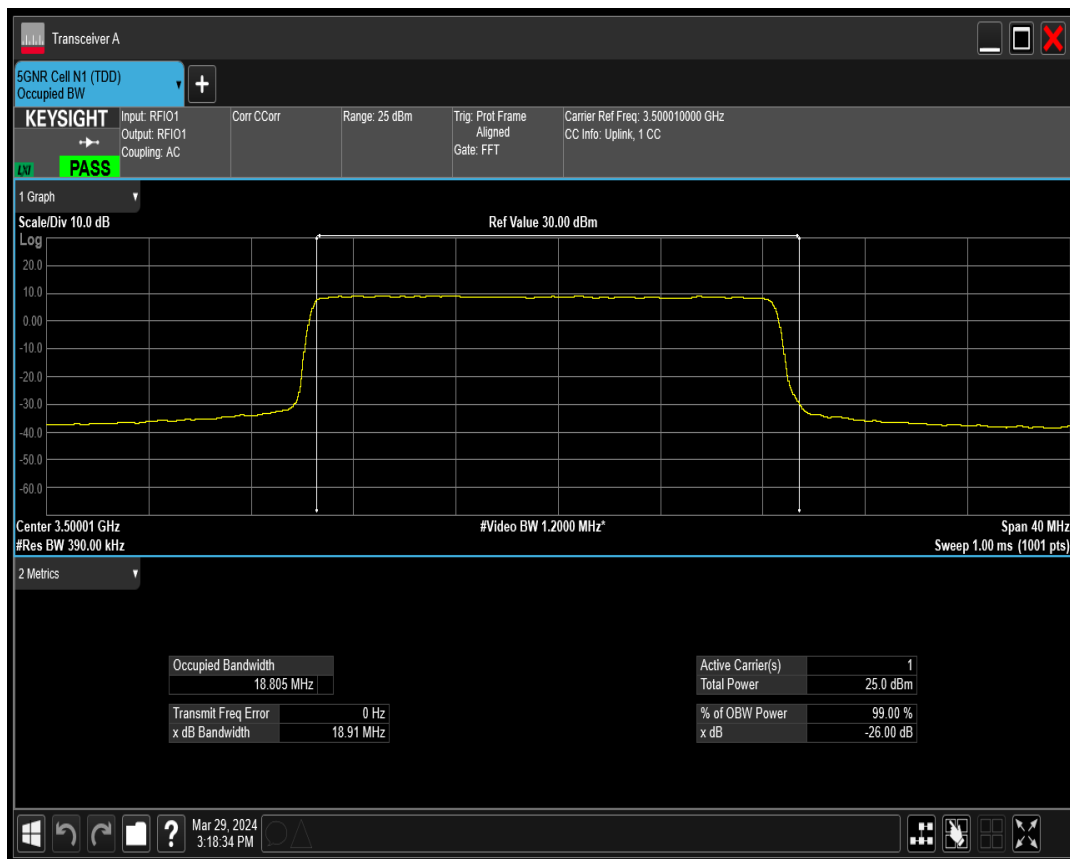
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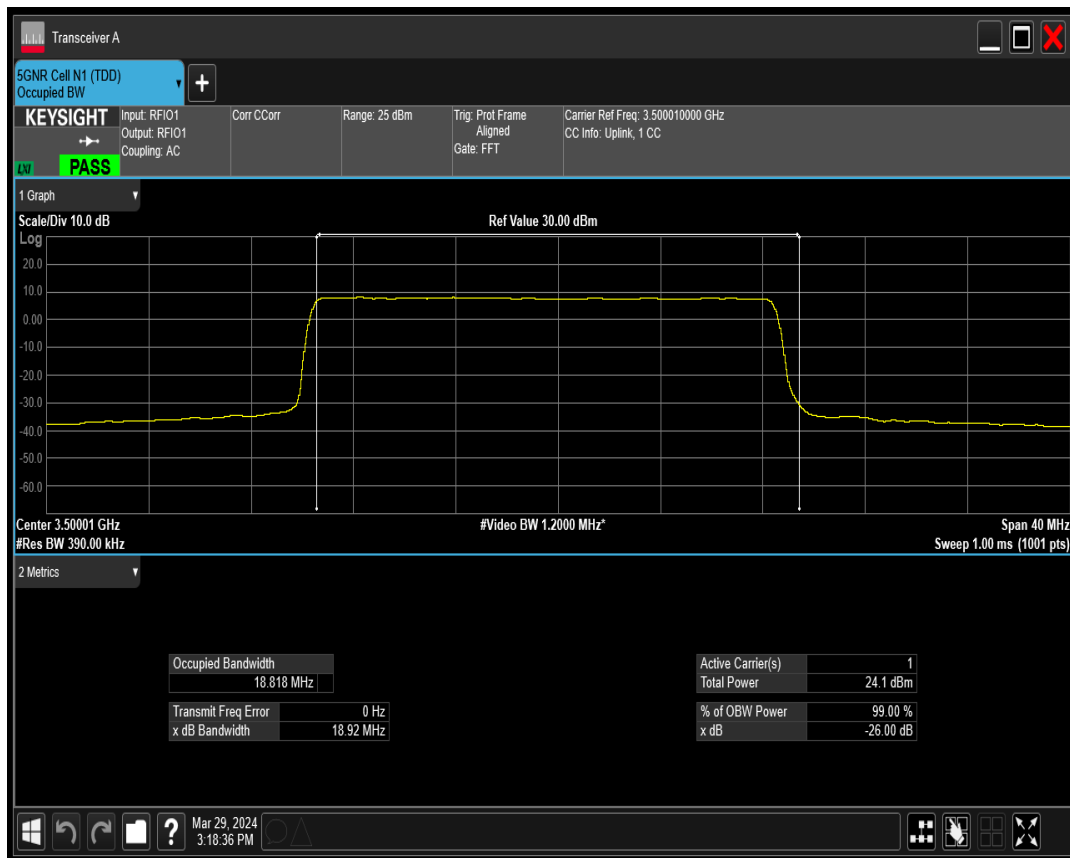
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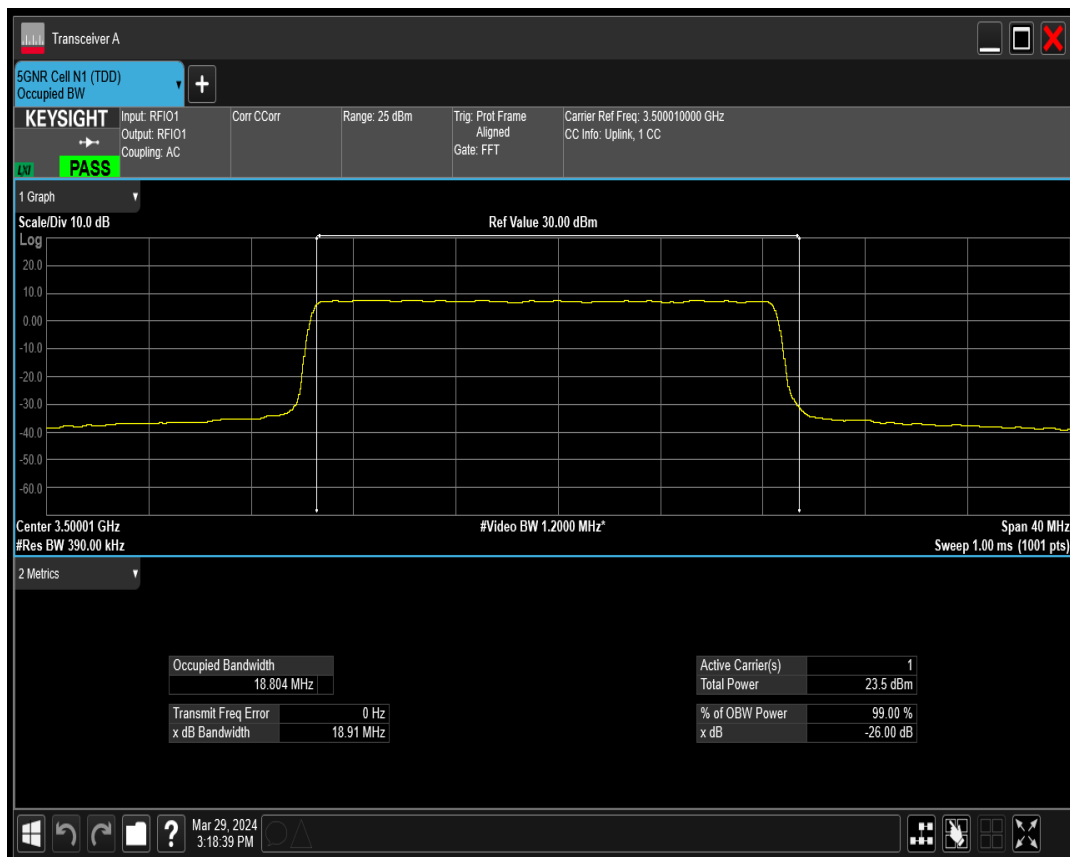
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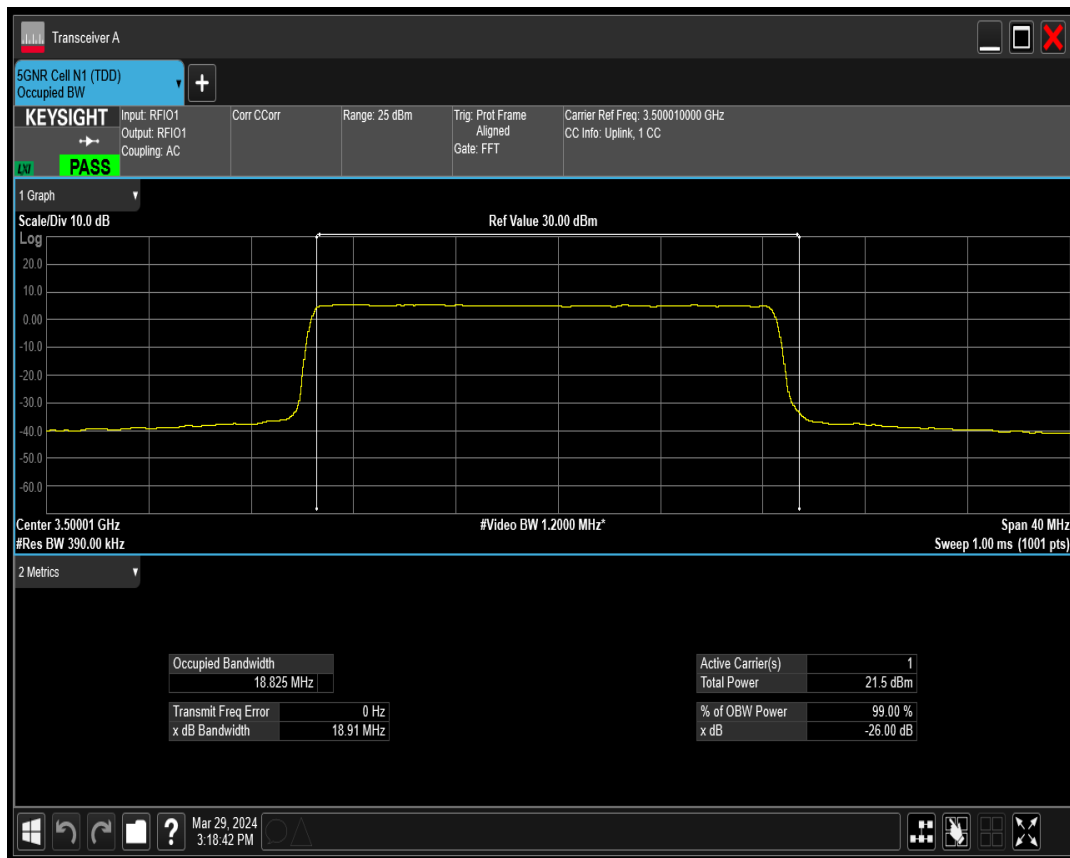
n77(3450-3550) SCS=15kHz DFT_QAM16 BW=20MHz Channel=633334 RB=100@0



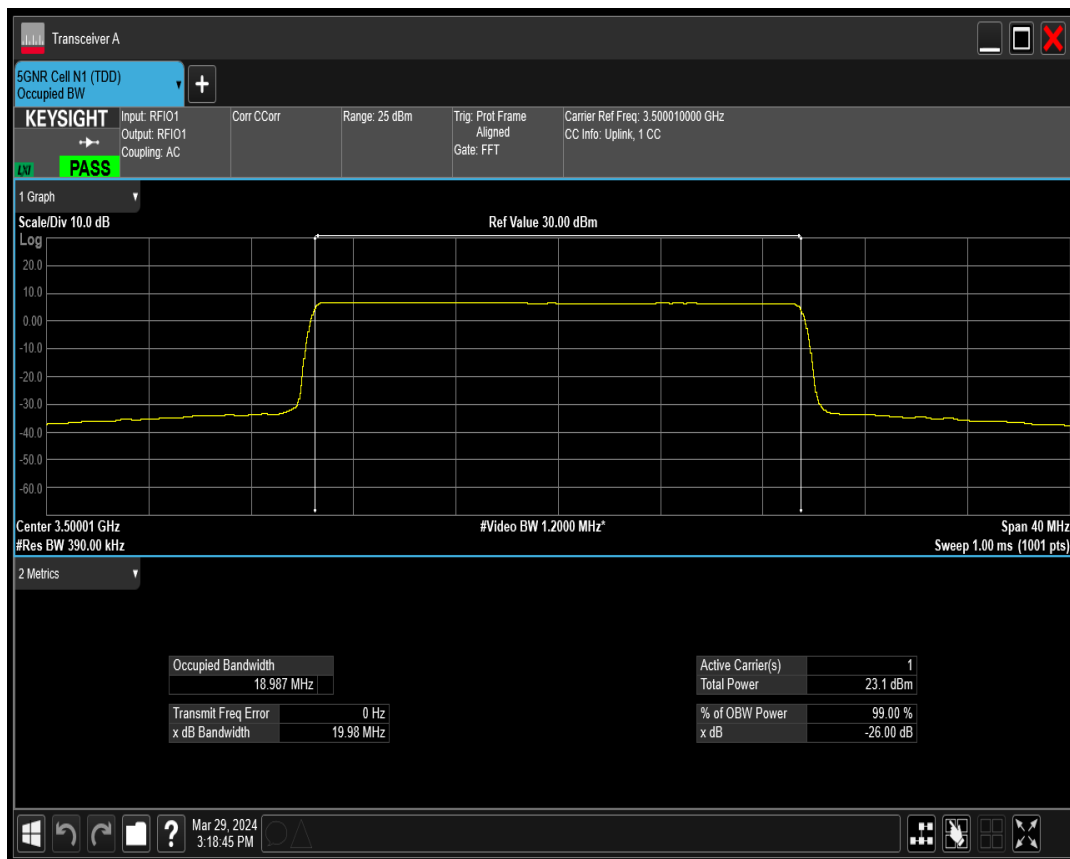
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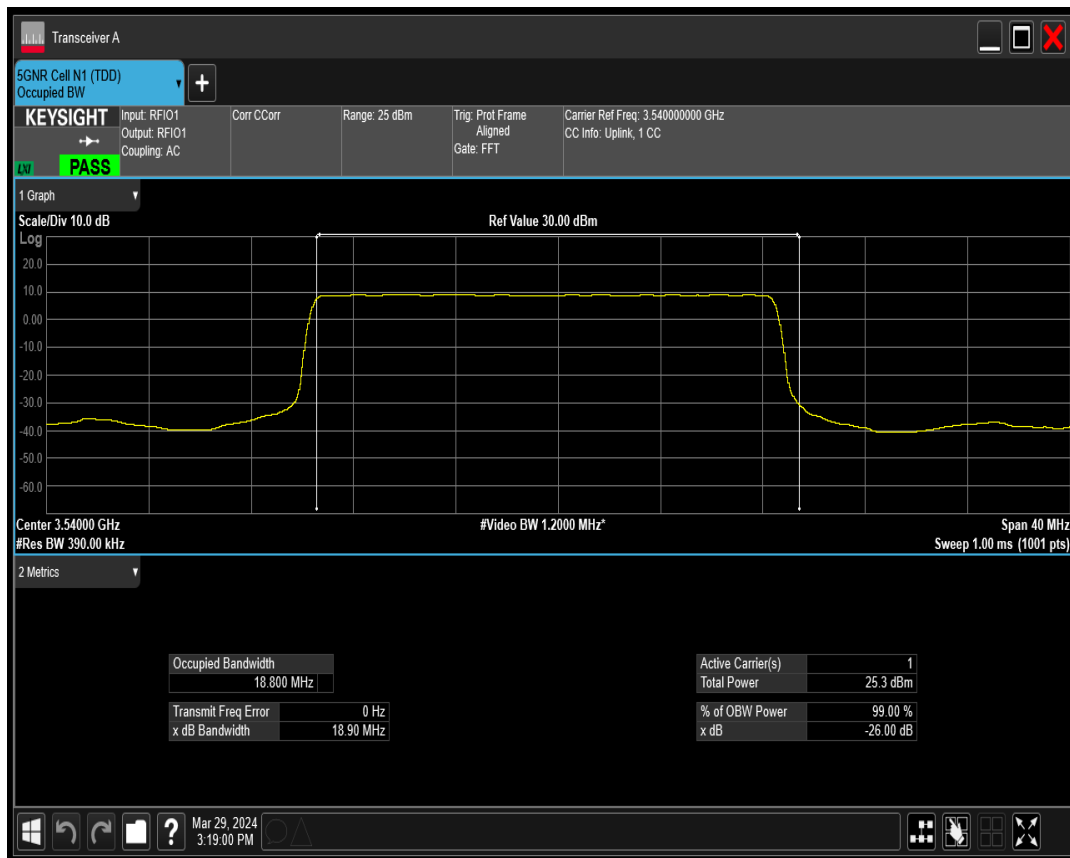
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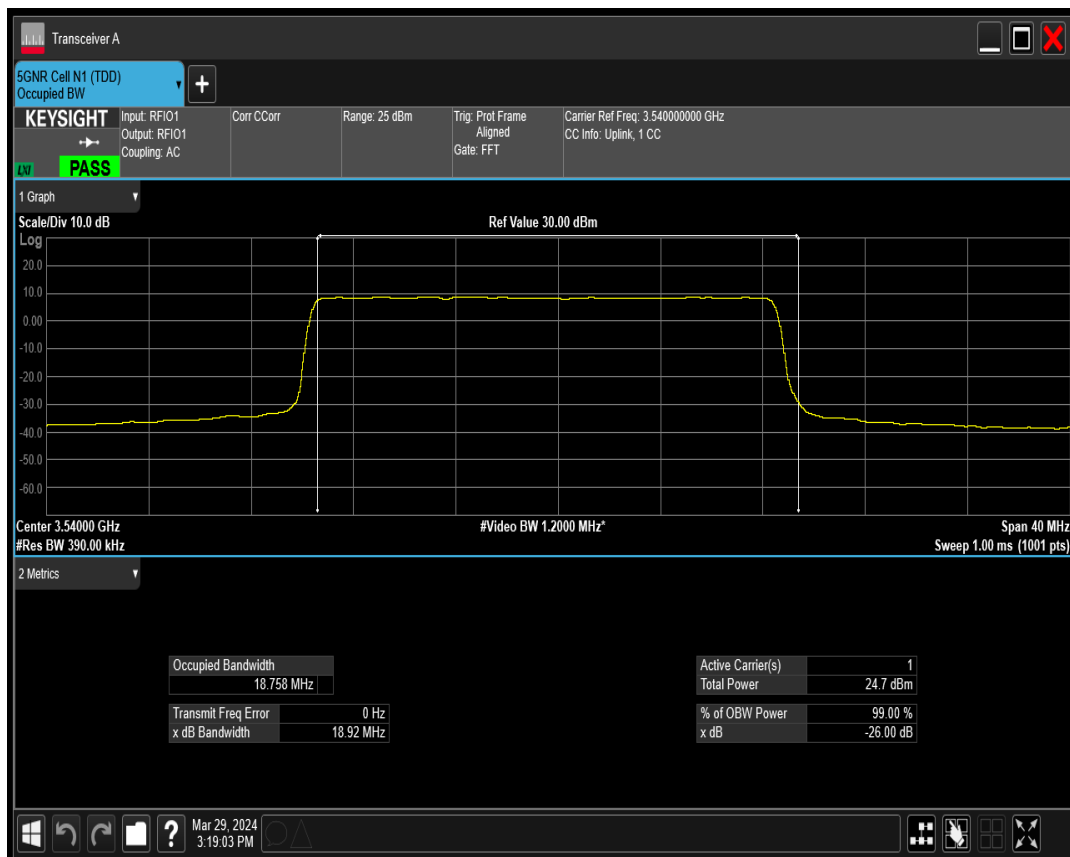
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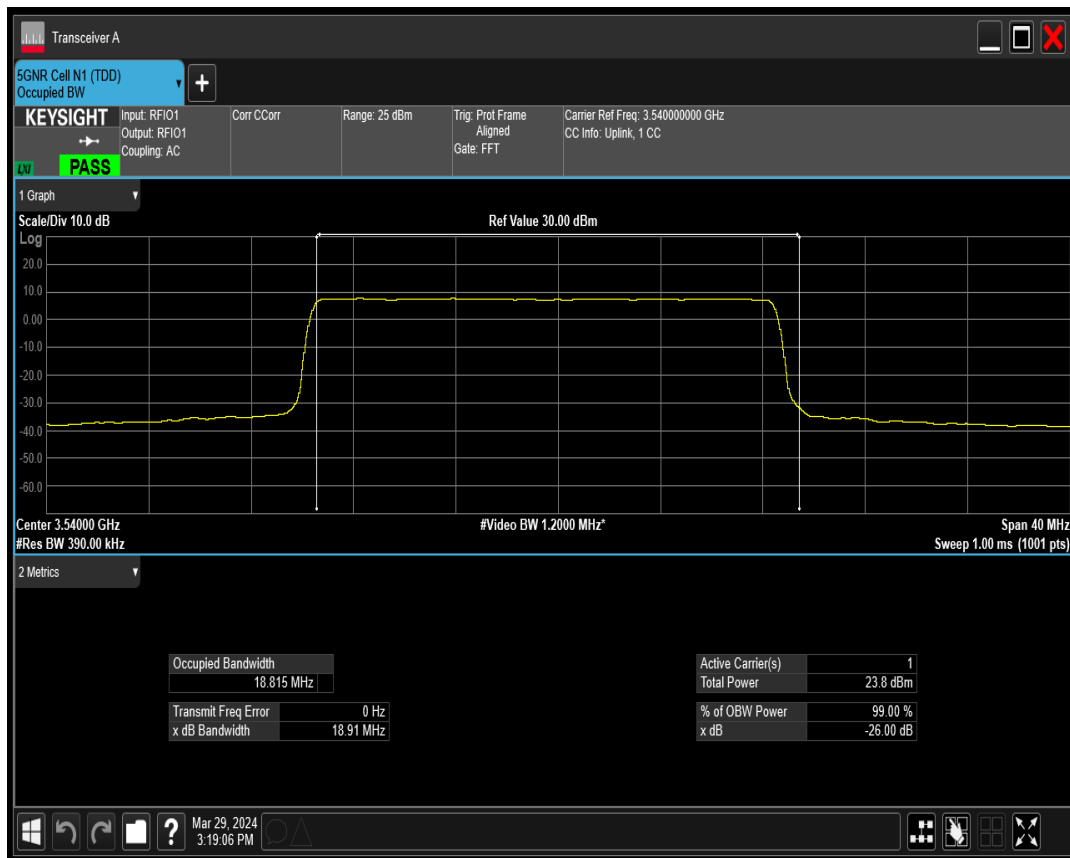
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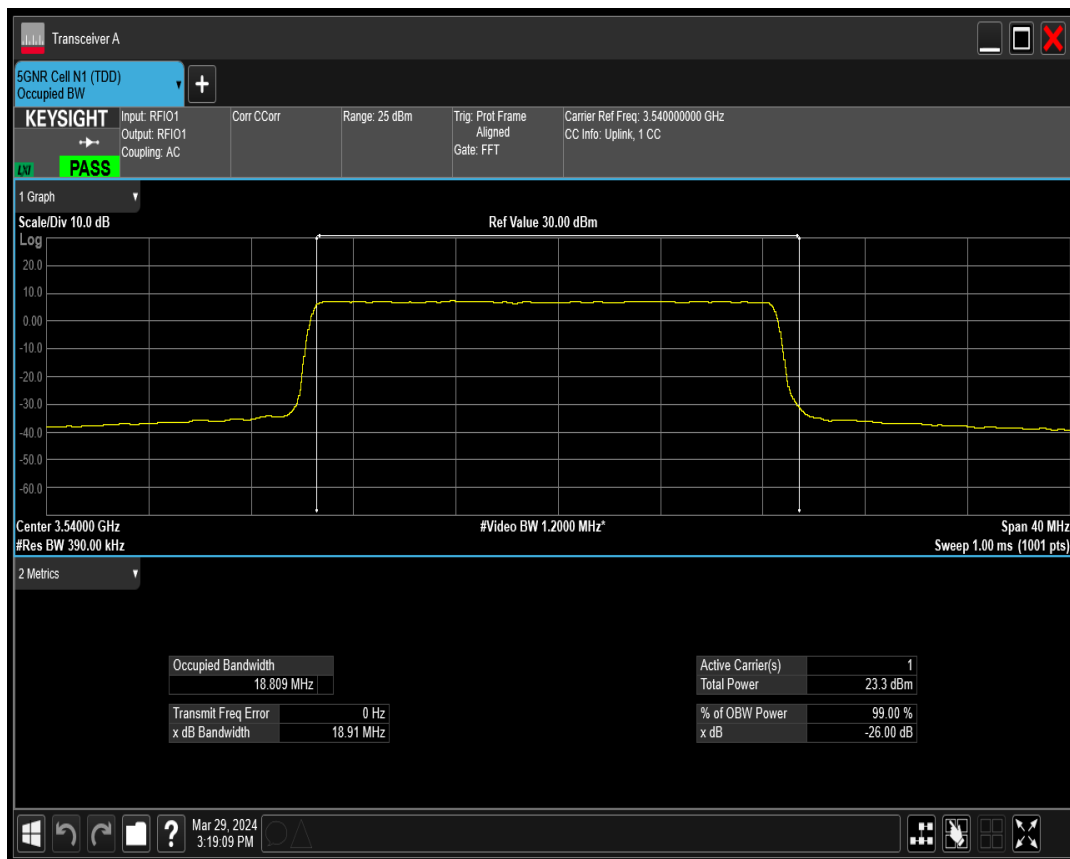
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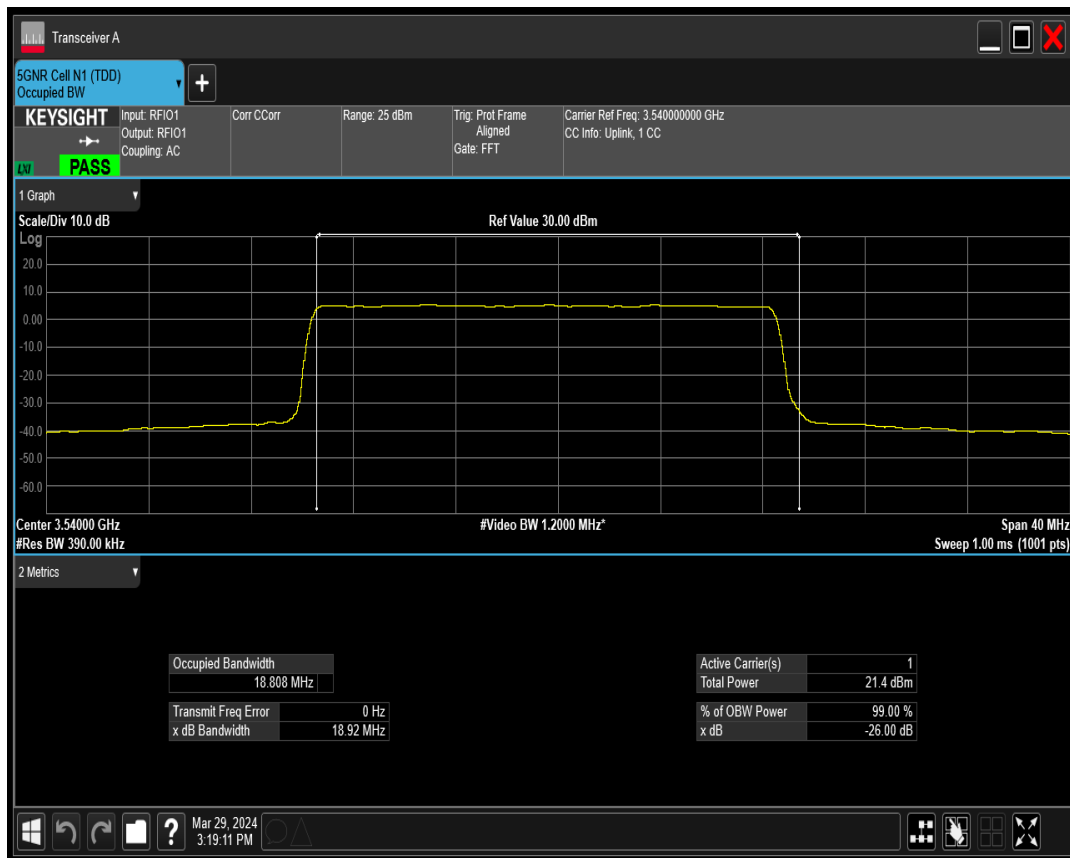
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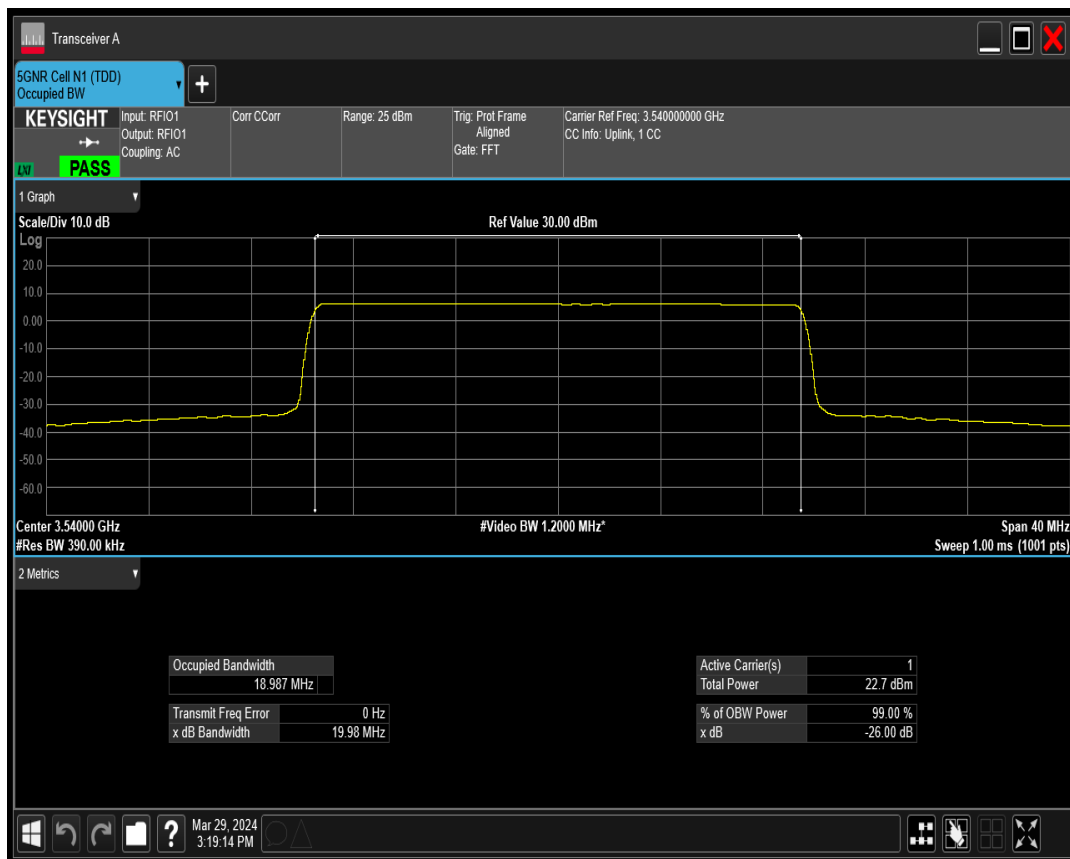
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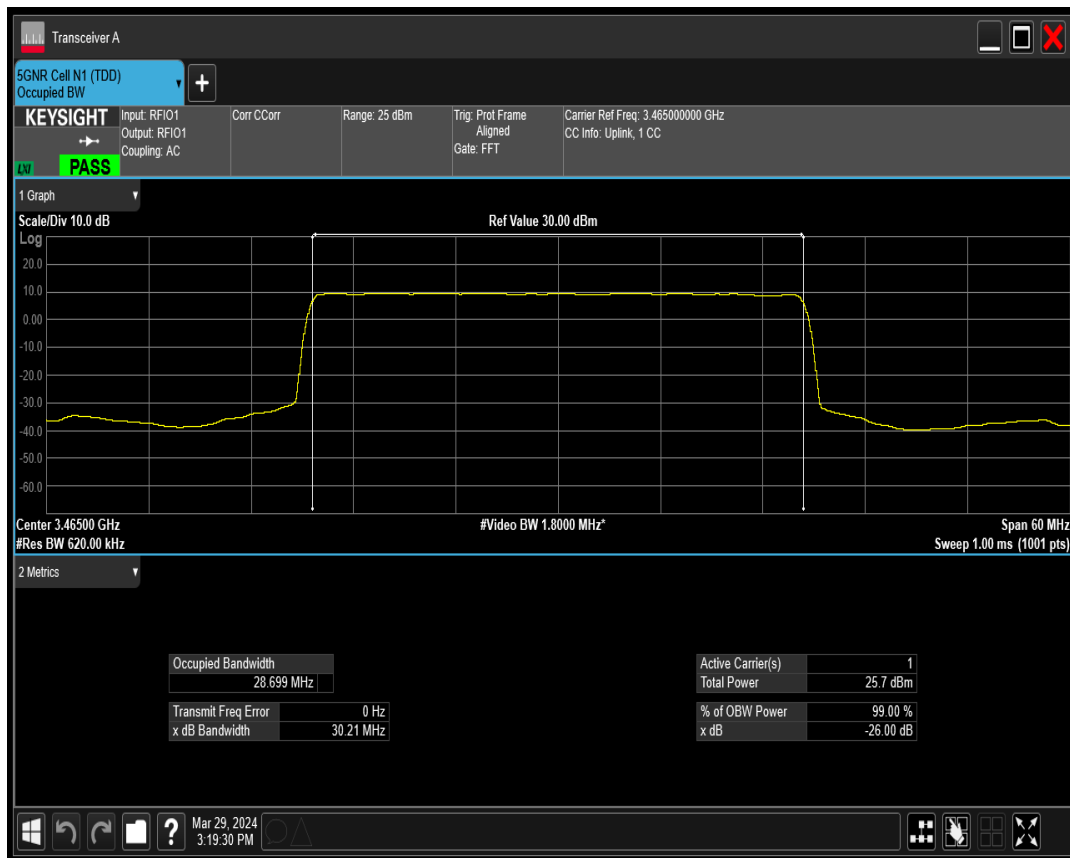
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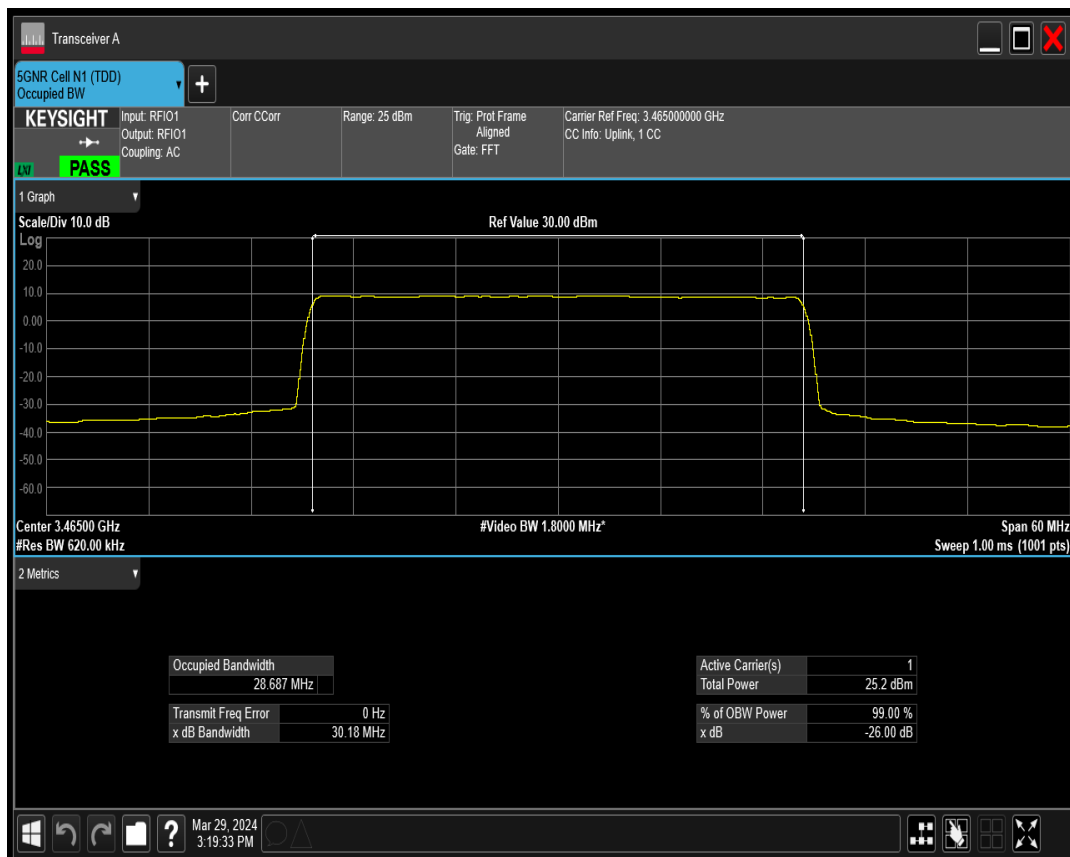
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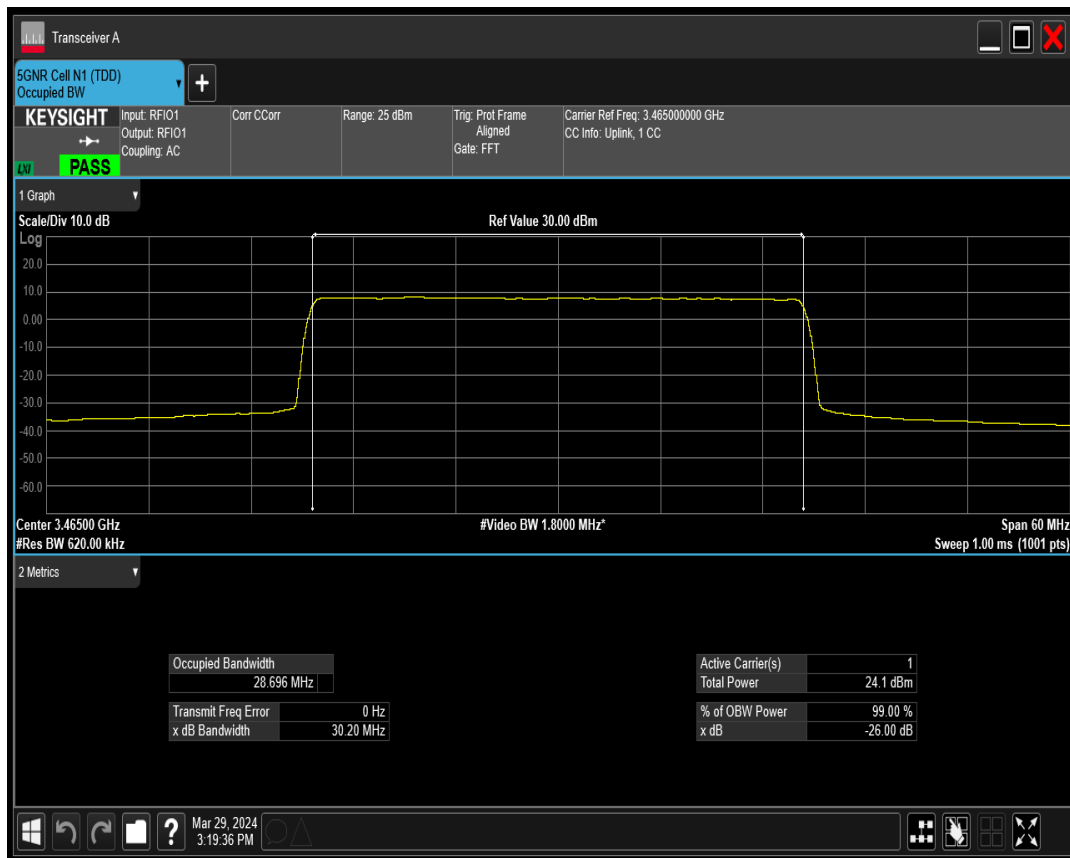
n77(3450-3550) SCS=15kHz DFT_BPSK BW=30MHz Channel=631000 RB=160@0



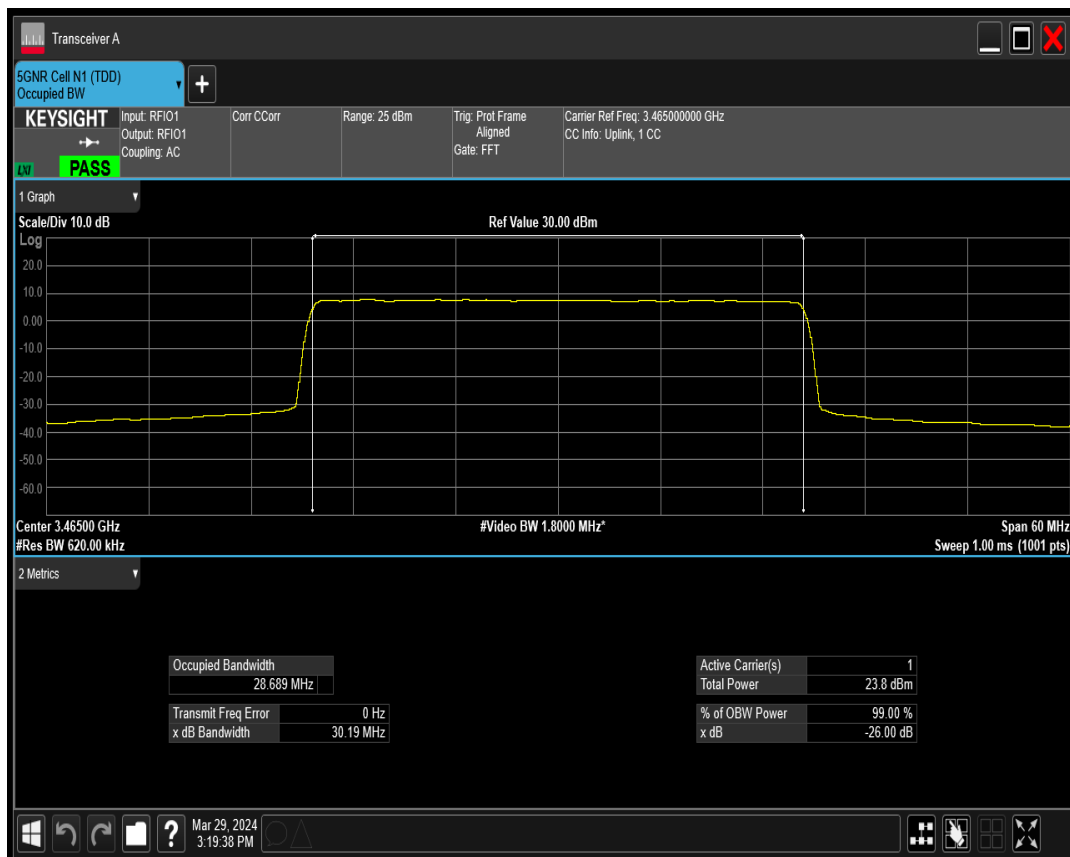
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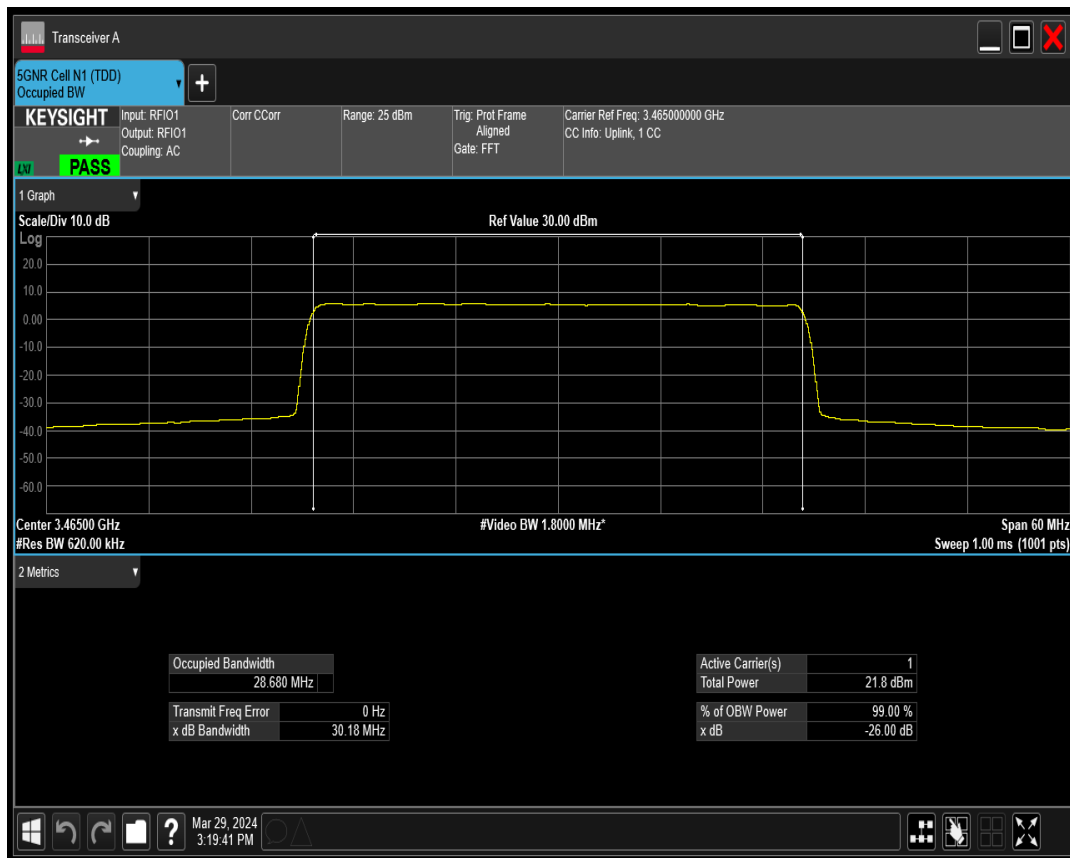
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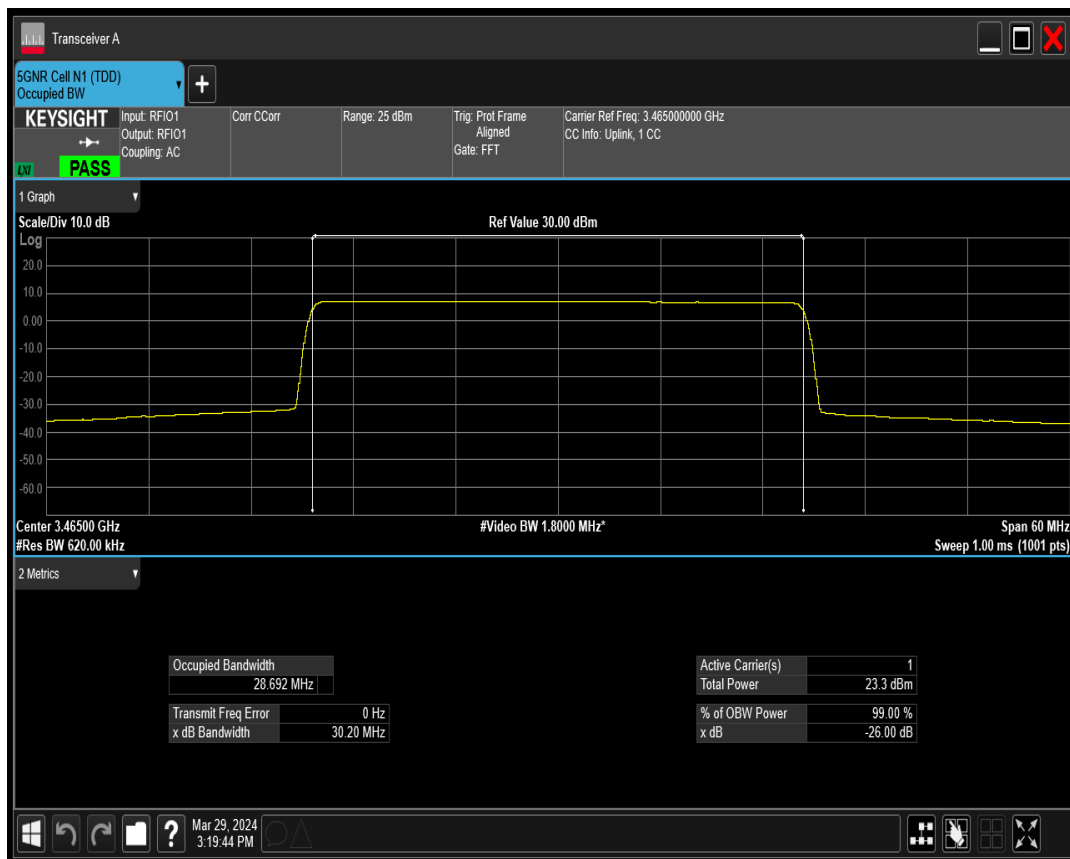
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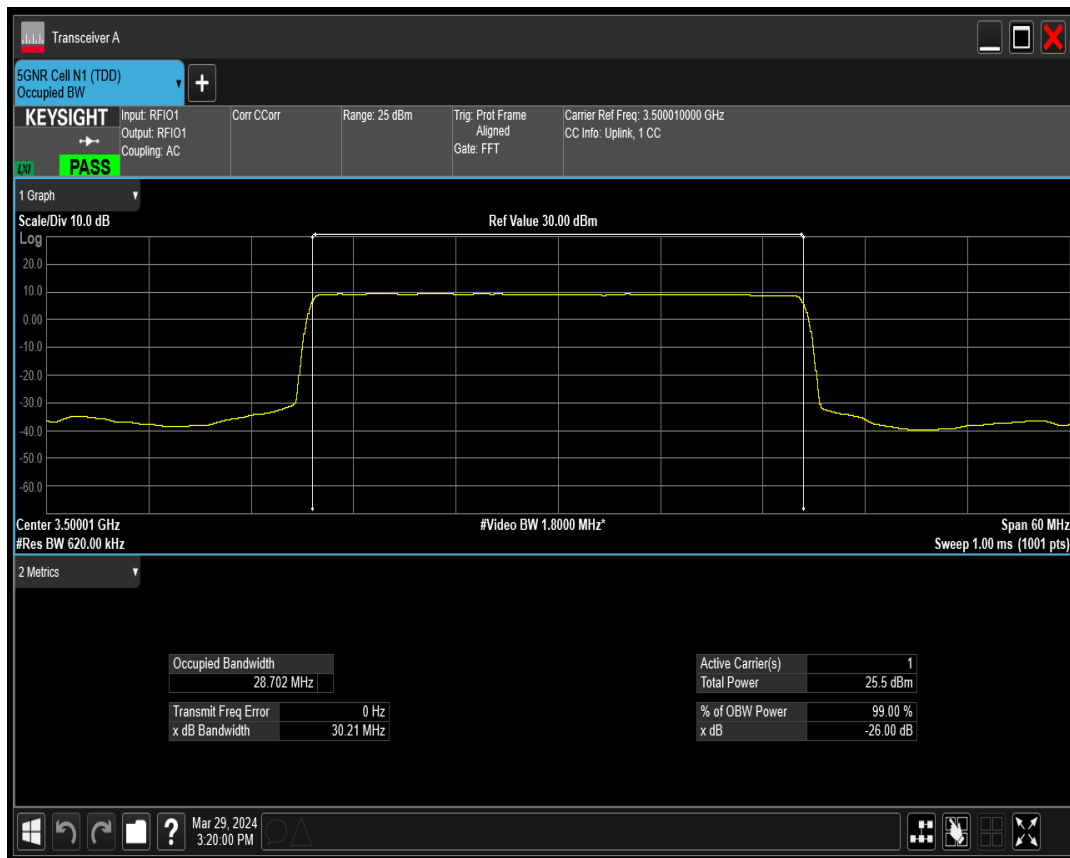
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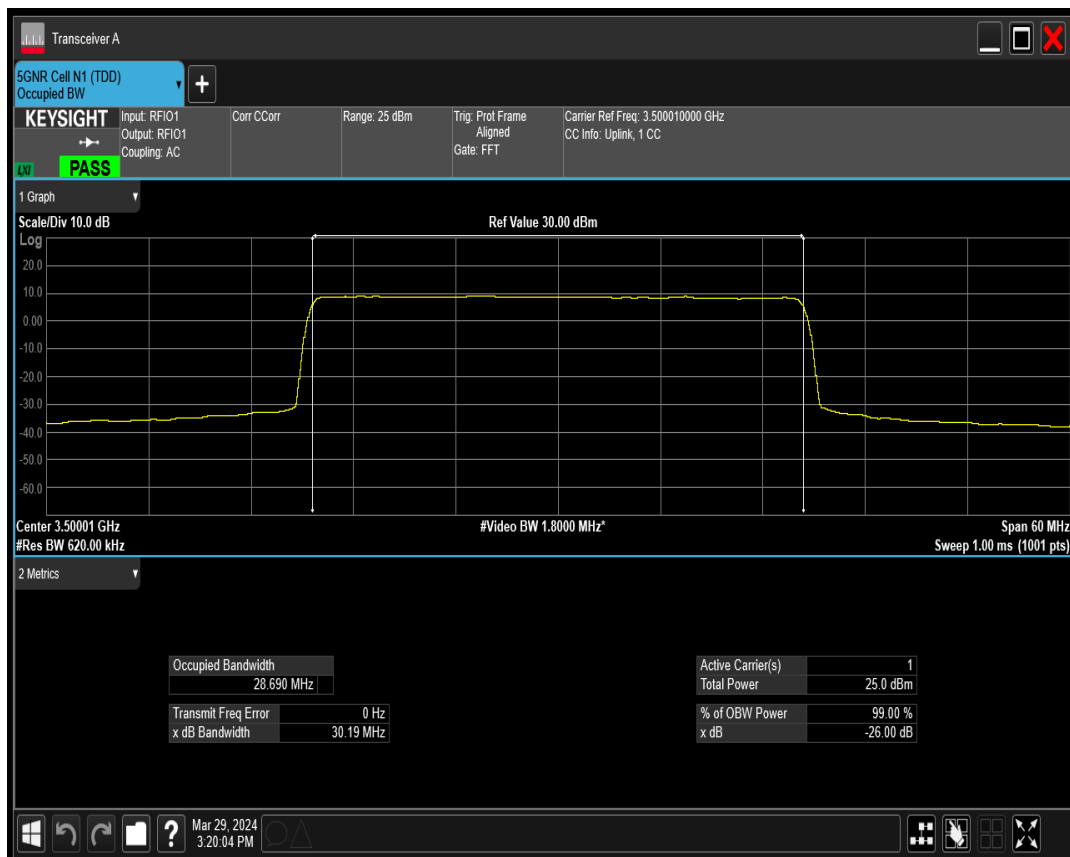
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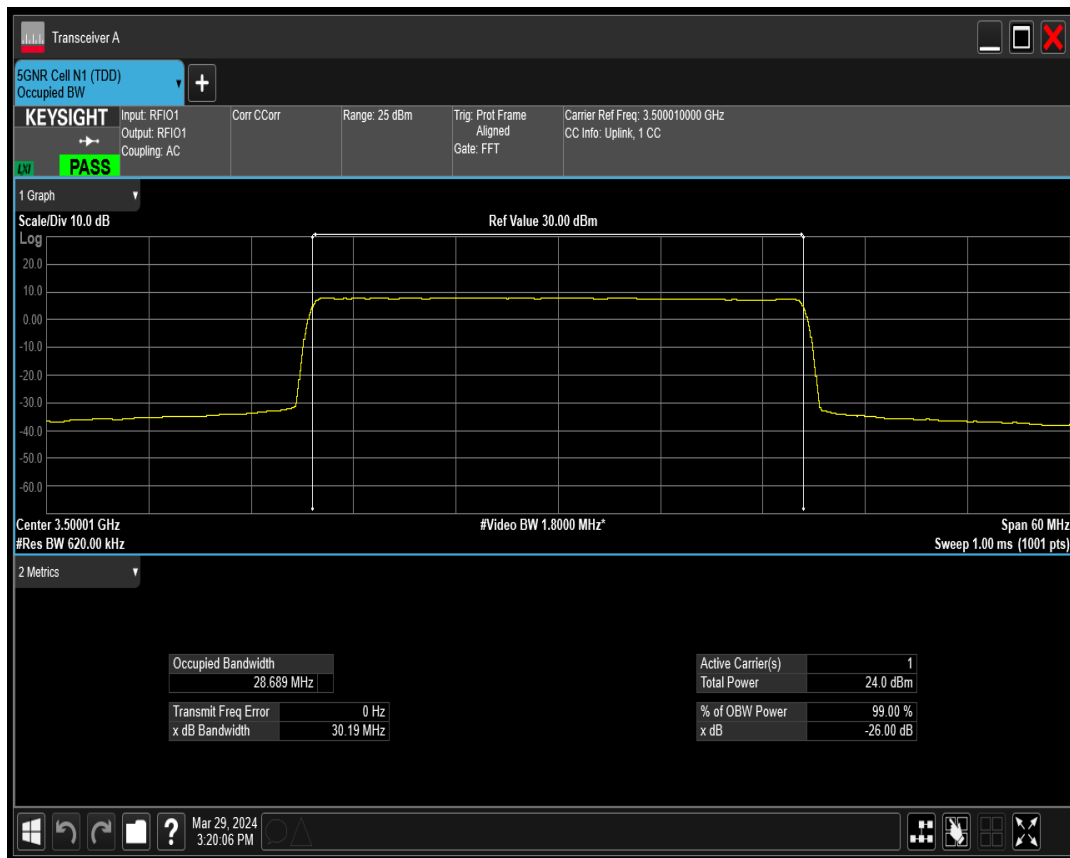
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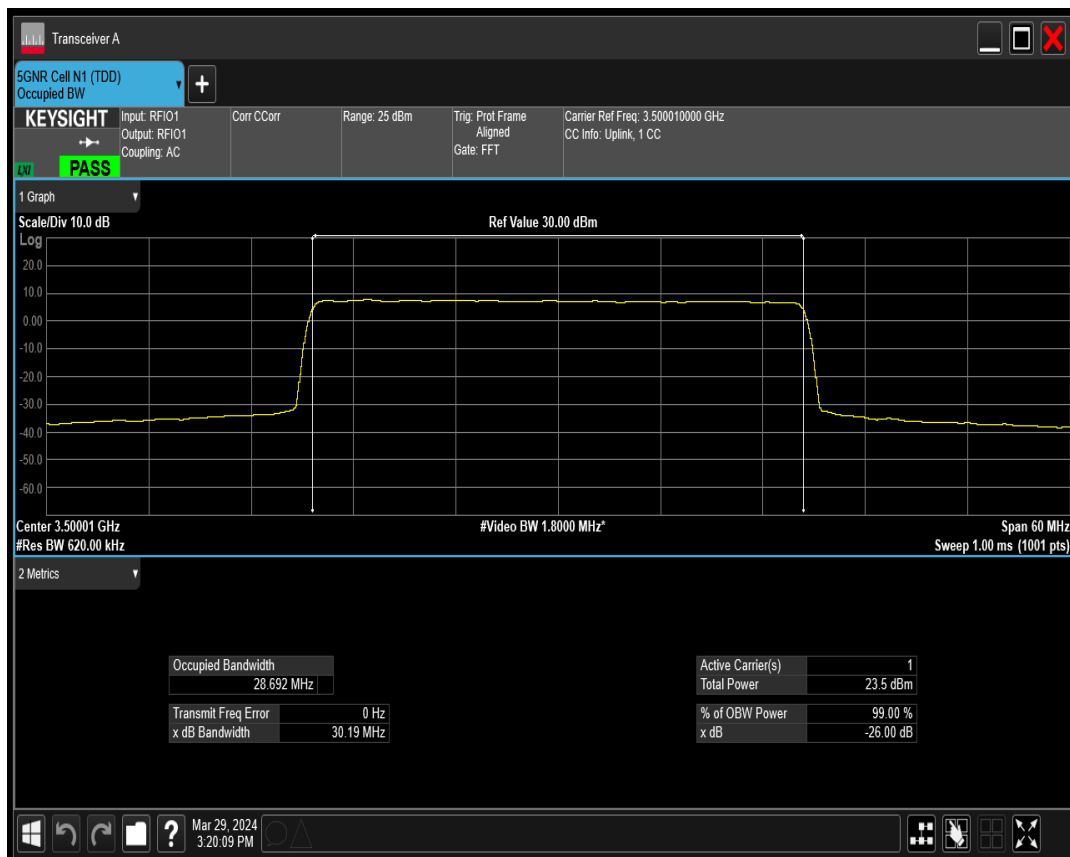
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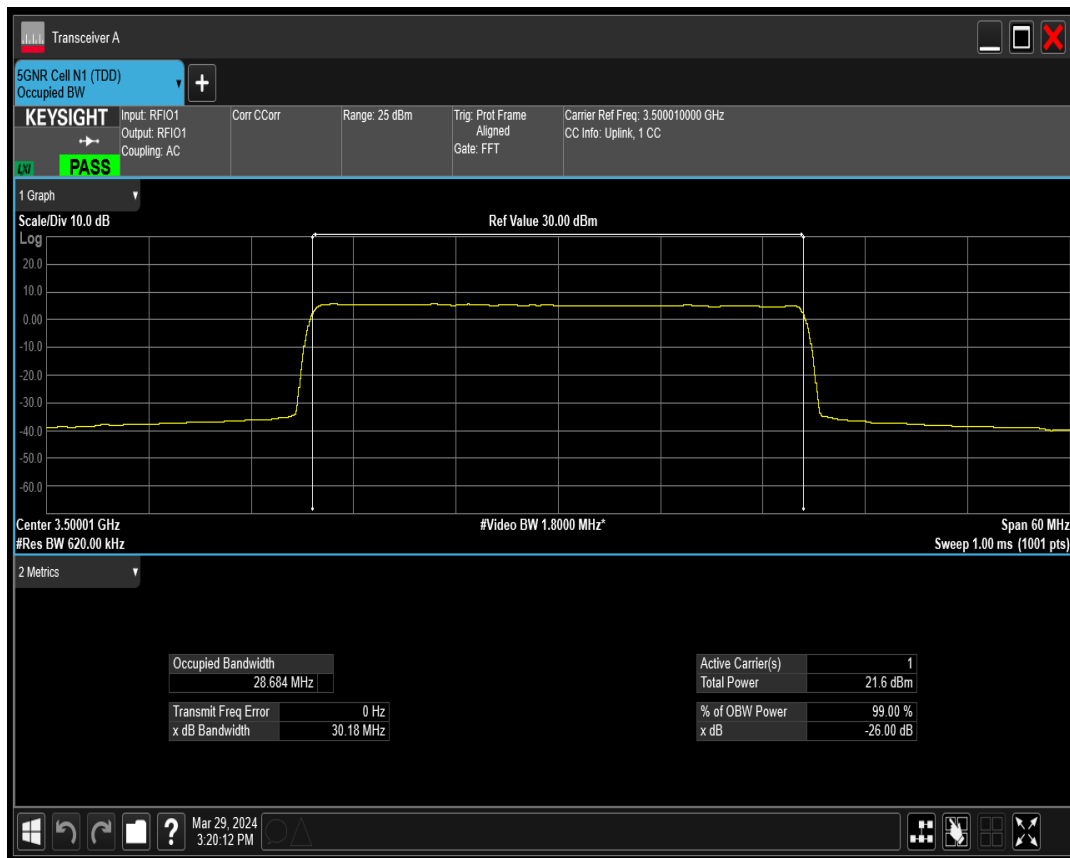
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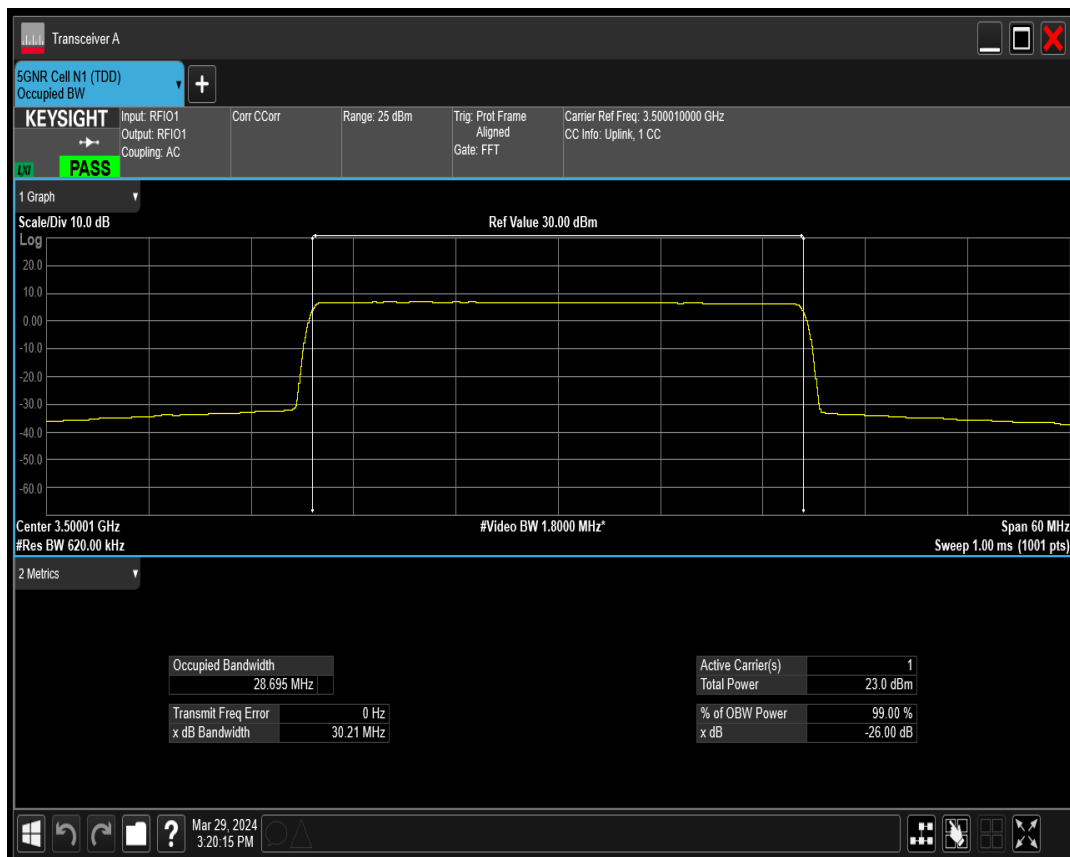
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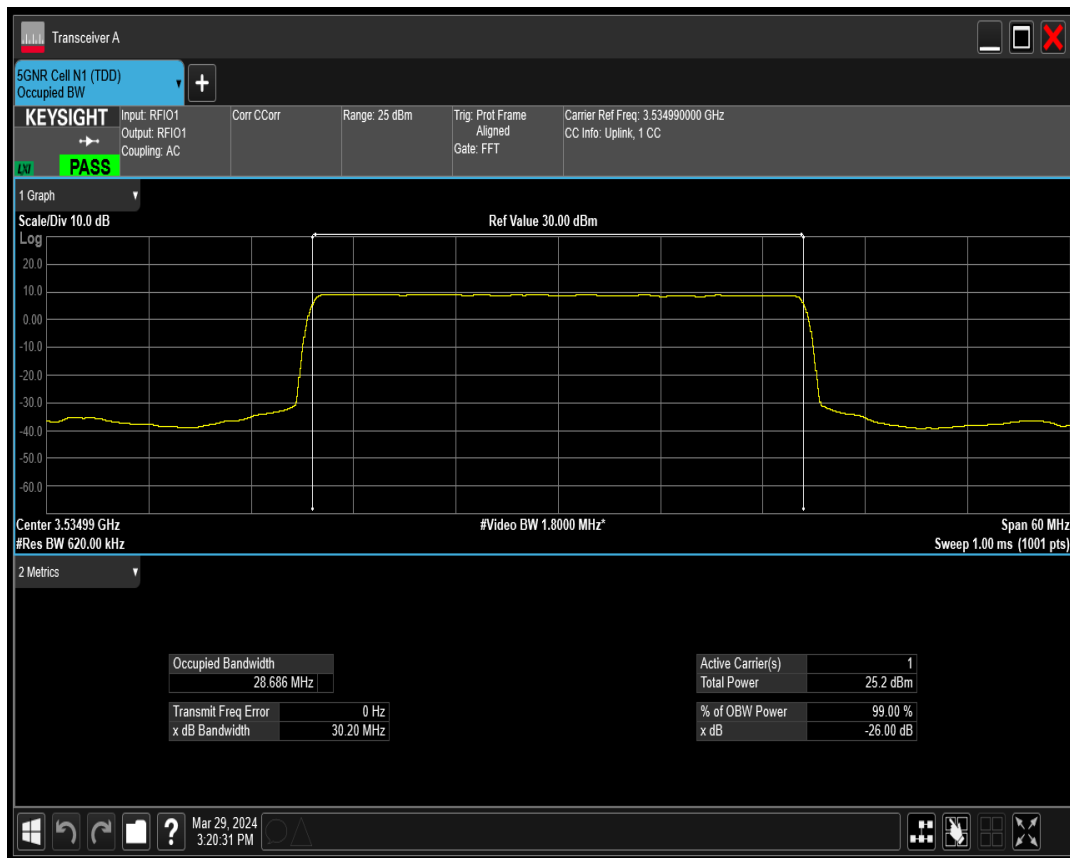
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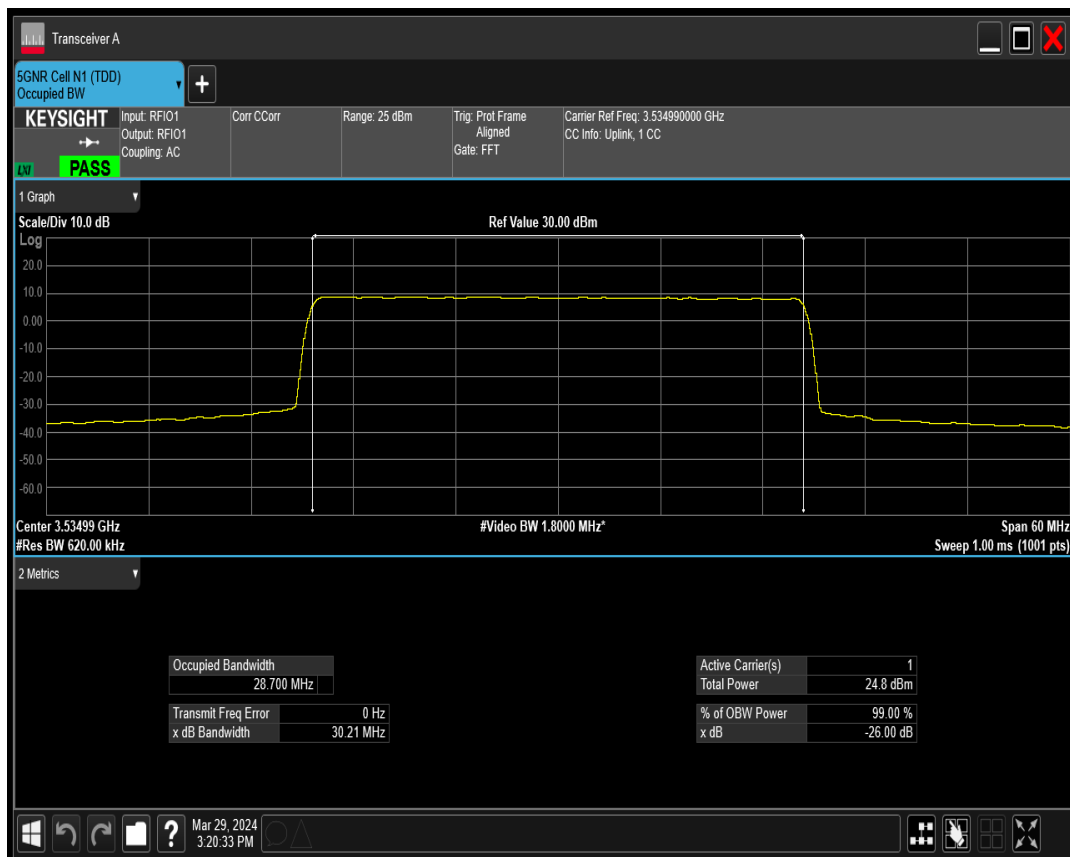
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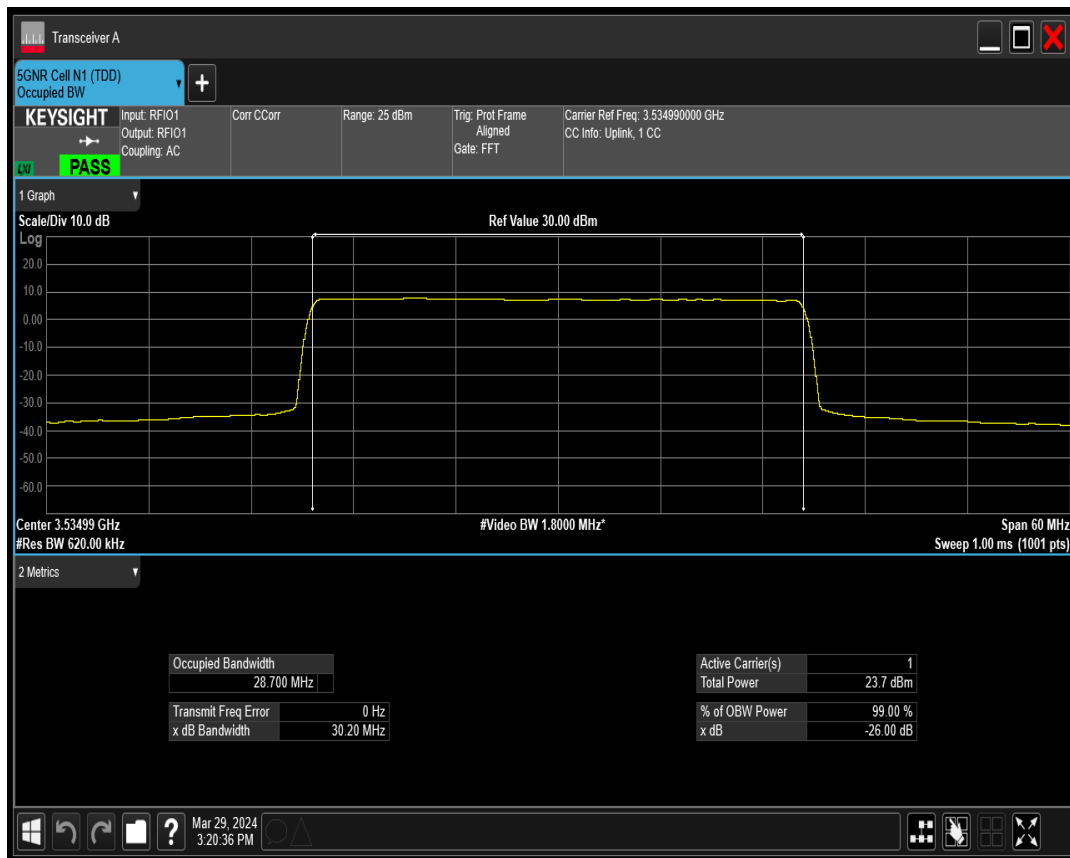
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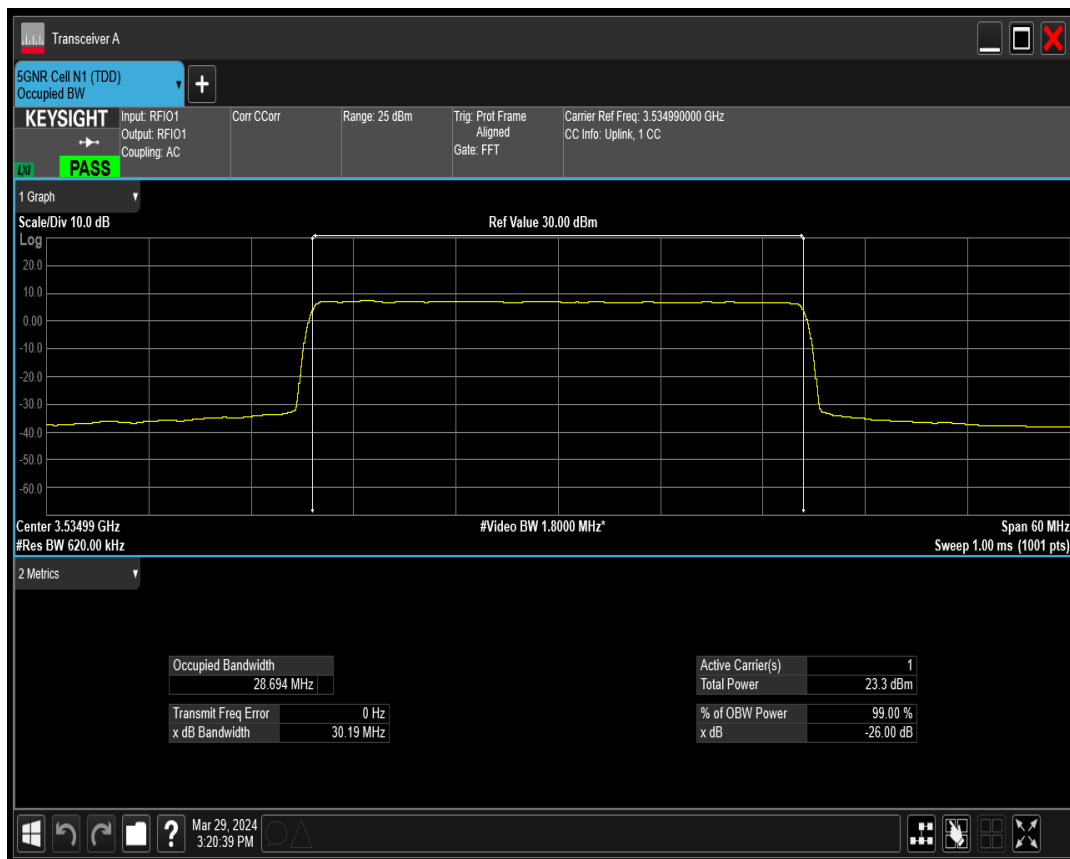
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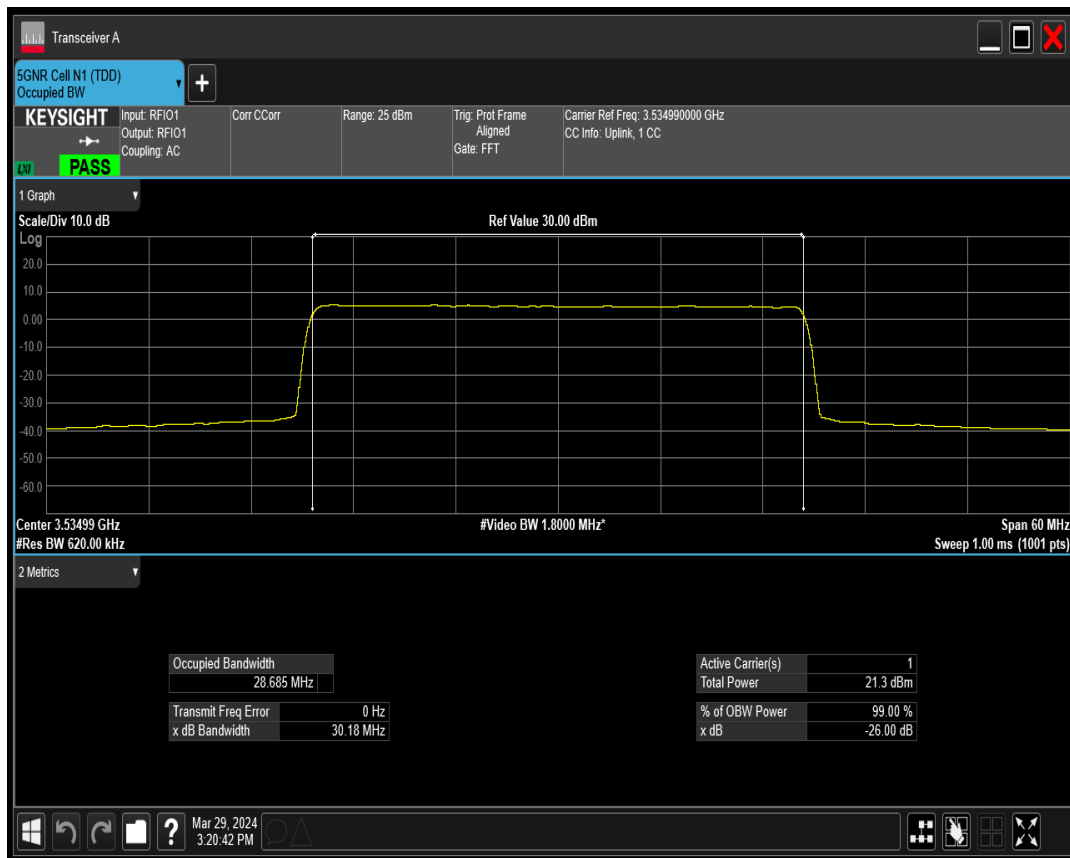
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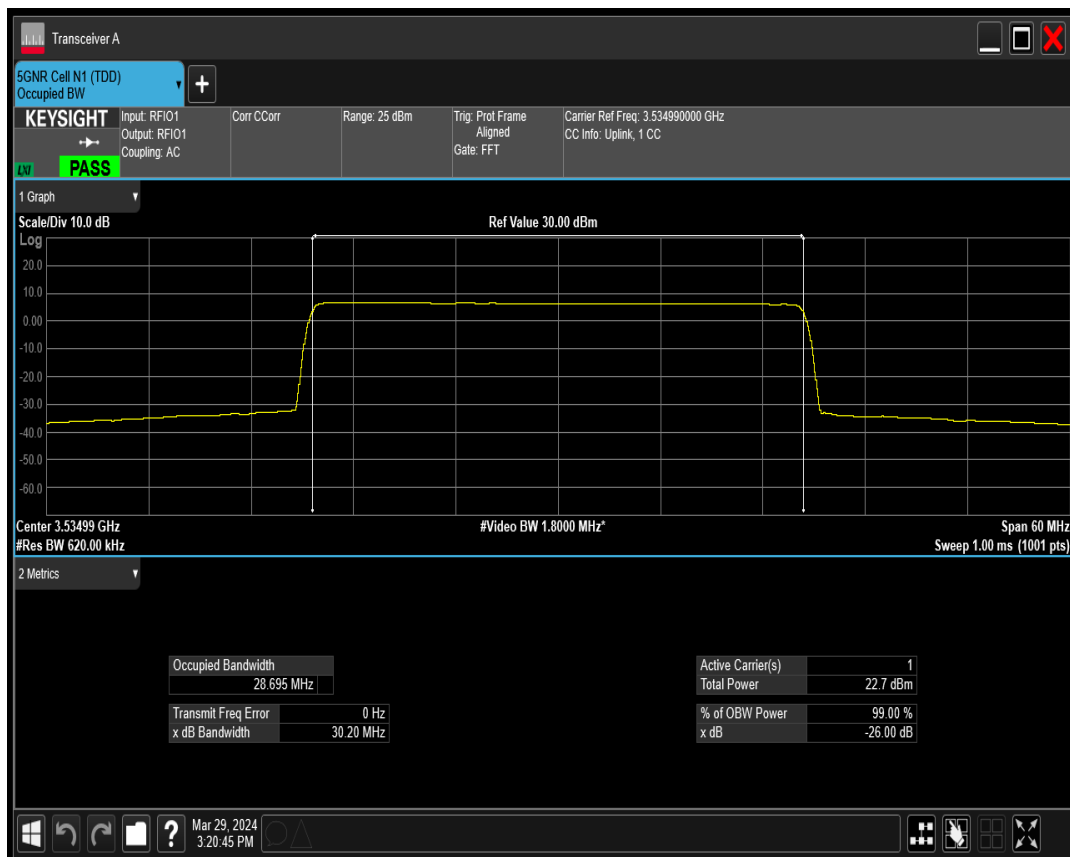
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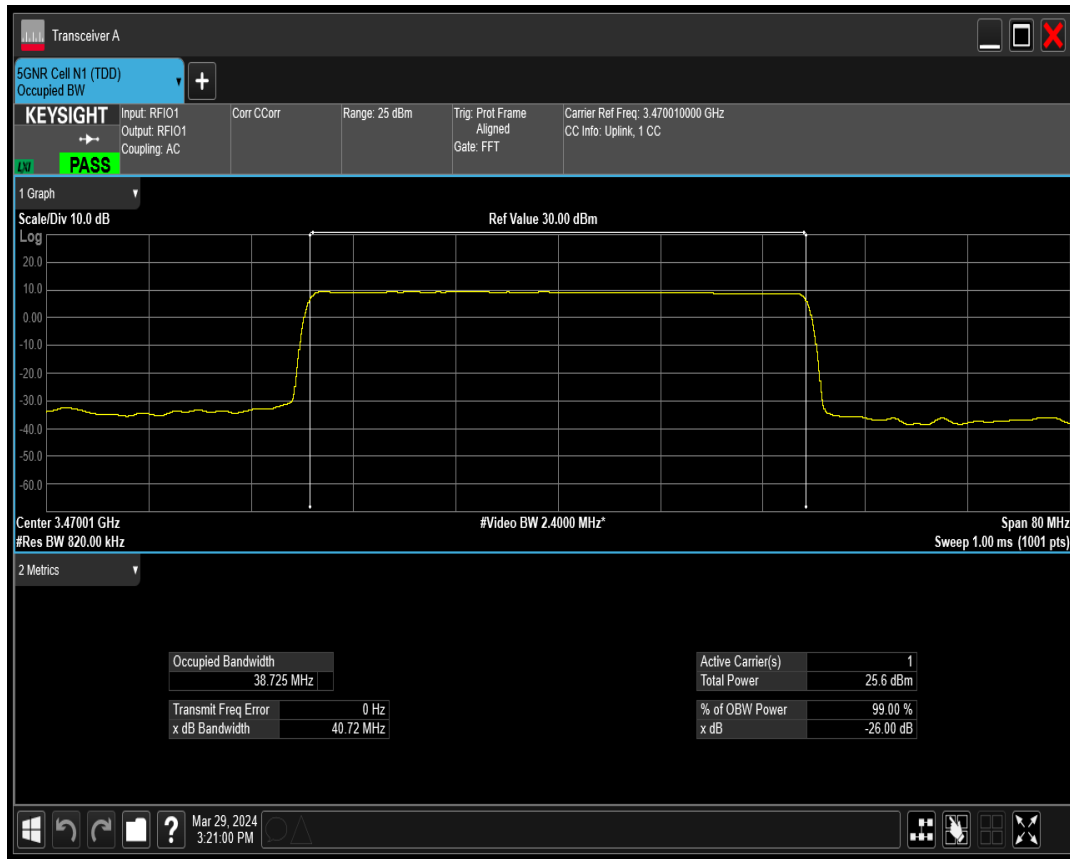
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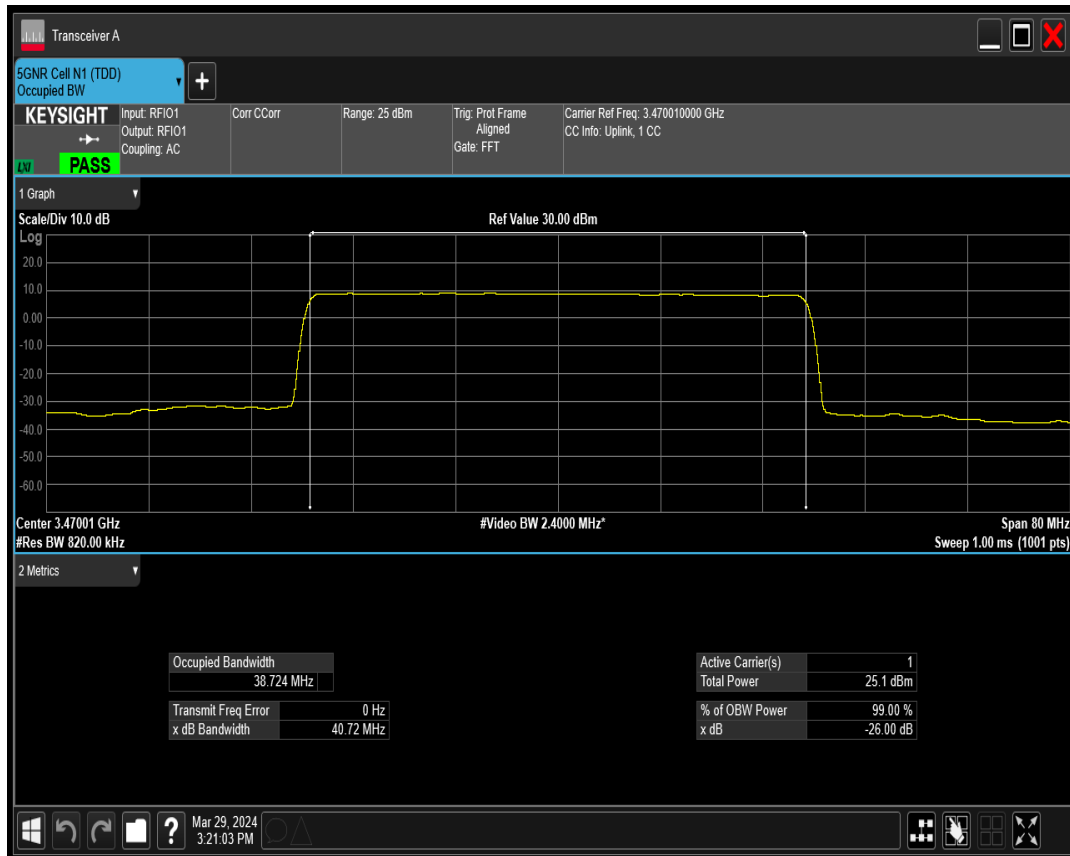
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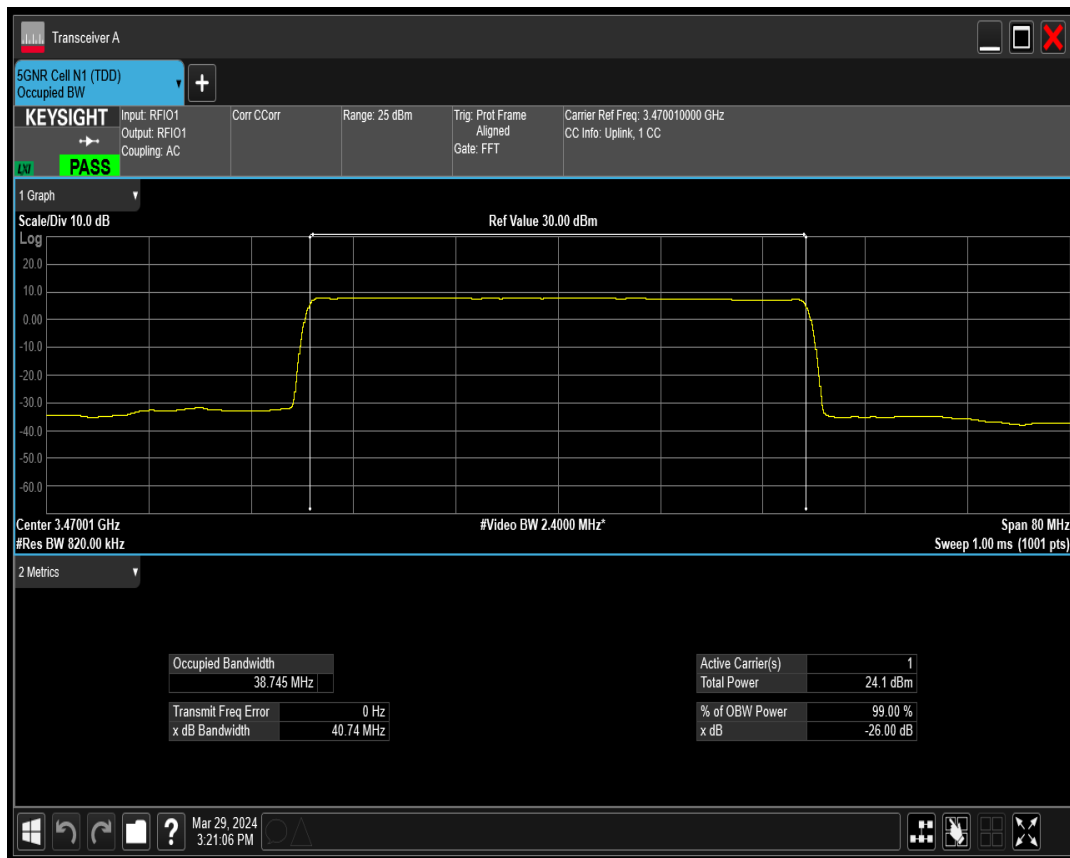
n77(3450-3550) SCS=15kHz DFT_BPSK BW=40MHz Channel=631334 RB=216@0



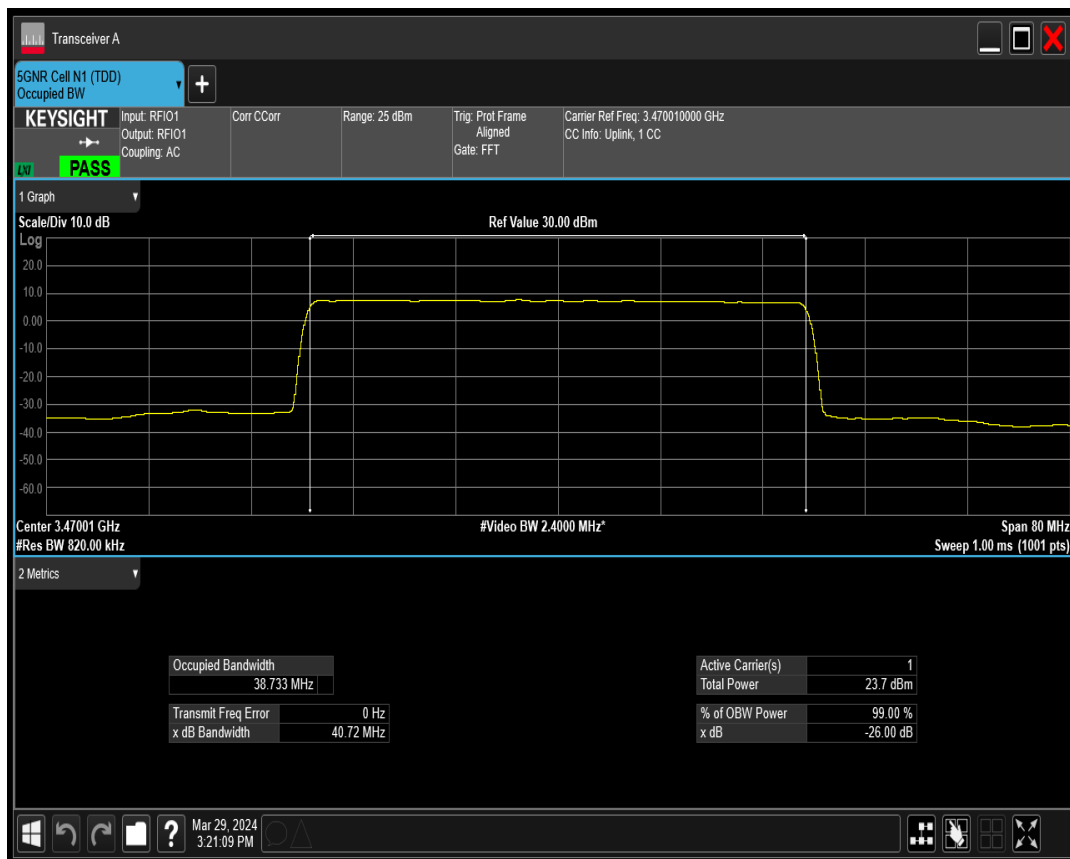
n77(3450-3550) SCS=15kHz DFT_QPSK BW=40MHz Channel=631334 RB=216@0



n77(3450-3550) SCS=15kHz DFT_QAM16 BW=40MHz Channel=631334 RB=216@0



n77(3450-3550) SCS=15kHz DFT_QAM64 BW=40MHz Channel=631334 RB=216@0



Transceiver A

5GNR Cell N1 (TDD)
Occupied BW

Input: RFIO1
Output: RFIO1
Coupling: AC

Corr CCorr

Range: 25 dBm

Trig: Prot Frame
Aligned
Gate: FFT

Carrier Ref Freq: 3.470010000 GHz
CC Info: Uplink, 1 CC

PASS

1 Graph

Scale/Div 10.0 dB

Log

Ref Value 30.00 dBm

Center 3.47001 GHz
#Res BW 820.00 kHz

#Video BW 2.4000 MHz*

Span 80 MHz
Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth	
	38.730 MHz

Transmit Freq Error	
	0 Hz

x dB Bandwidth	
	40.72 MHz

Active Carrier(s)	
	1

Total Power	
	21.7 dBm

% of OBW Power	
	99.00 %

x dB	
	-26.00 dB

The screenshot displays the Keysight software interface for a Transceiver A. The top section shows the signal source as '5G NR Cell N1 (TDD)' and 'Occupied BW'. The 'KEYSIGHT' logo is visible, along with input/output details: Input: RFIO1, Output: RFIO1, Coupling: AC. The 'PASS' status is indicated in a green box. The top right shows the carrier frequency: 3.470010000 GHz, CC Info: Uplink, 1 CC.

The main plot area shows a spectrum plot with a scale of 10.0 dB and a reference value of 30.00 dBm. The plot shows a signal centered at 3.47001 GHz with a video bandwidth of 2.4000 MHz. The signal is active between approximately -30 dBm and 0 dBm. The plot is labeled '1 Graph' and 'Scale/Div 10.0 dB'.

The bottom section displays two metrics:

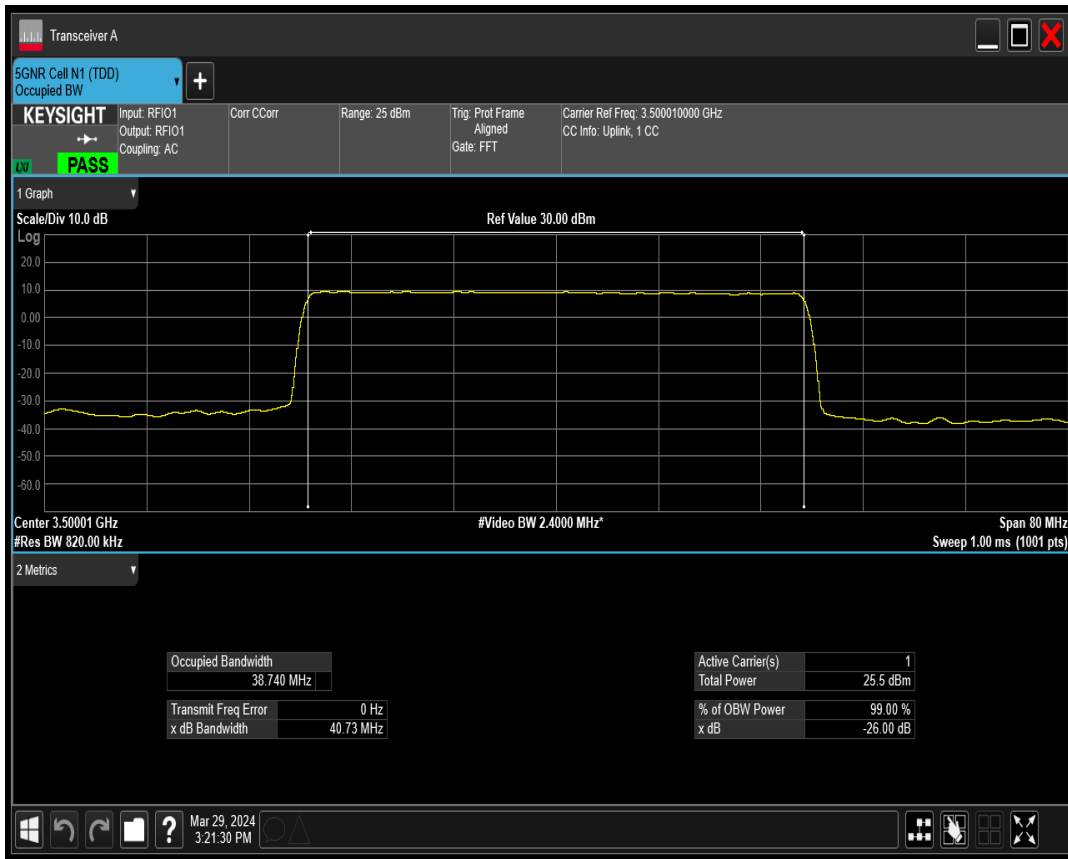
- Occupied Bandwidth:** 38.734 MHz
- Transmit Freq Error:** 0 Hz
- x dB Bandwidth:** 40.74 MHz

Additional metrics on the right include:

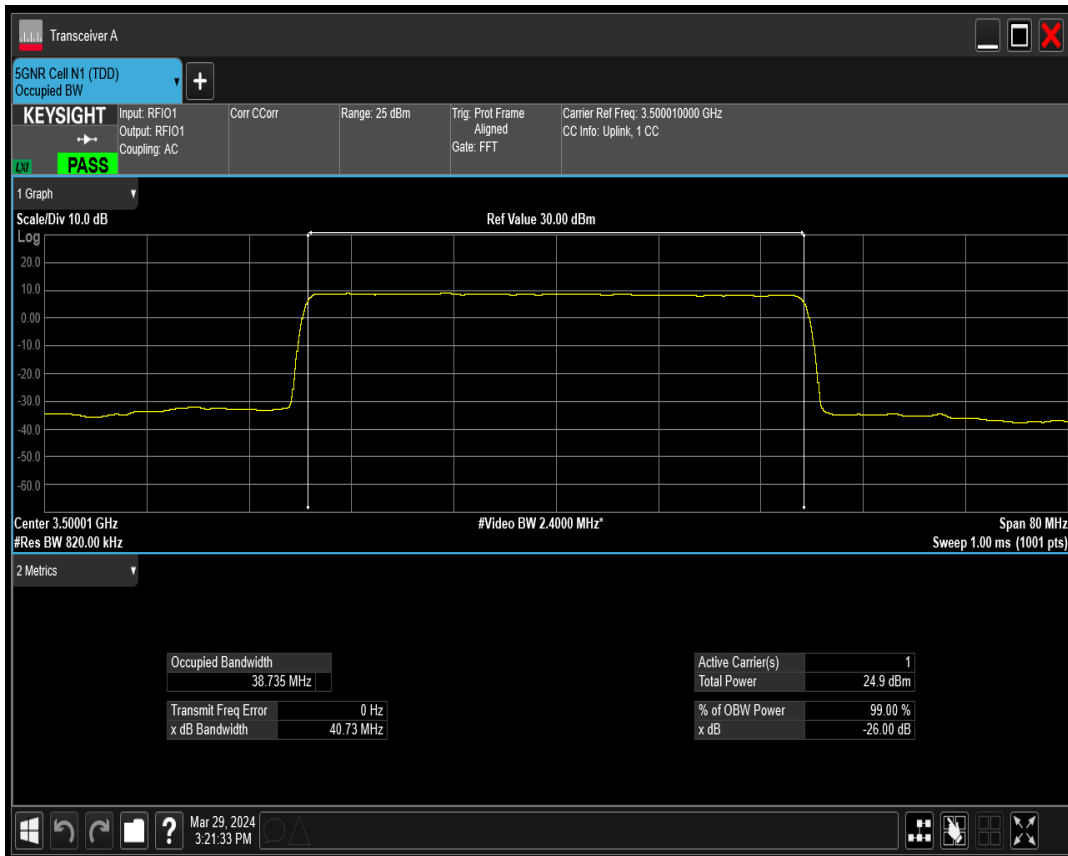
- Active Carrier(s):** 1
- Total Power:** 23.1 dBm
- % of OBW Power:** 99.00 %
- x dB:** -26.00 dB

The bottom status bar shows the date and time: Mar 29, 2024, 3:21:14 PM, along with various system icons.

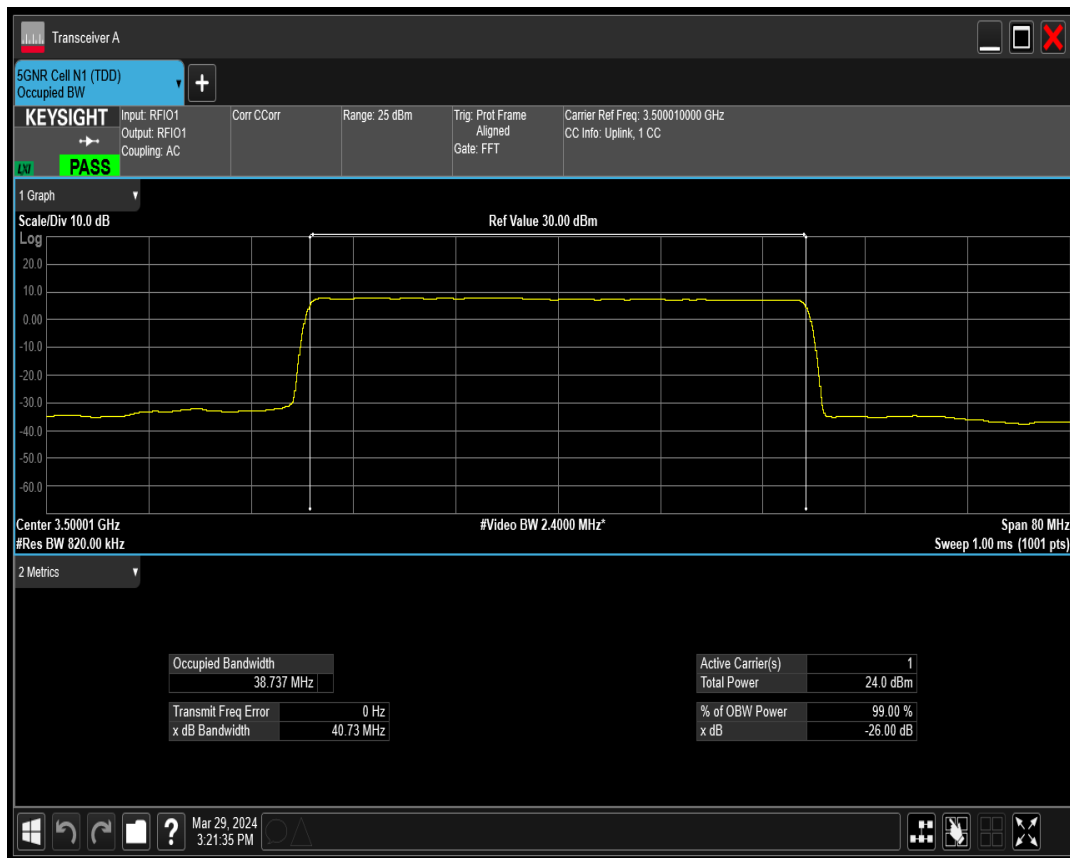
n77(3450-3550) SCS=15kHz DFT_BPSK BW=40MHz Channel=633334 RB=216@0



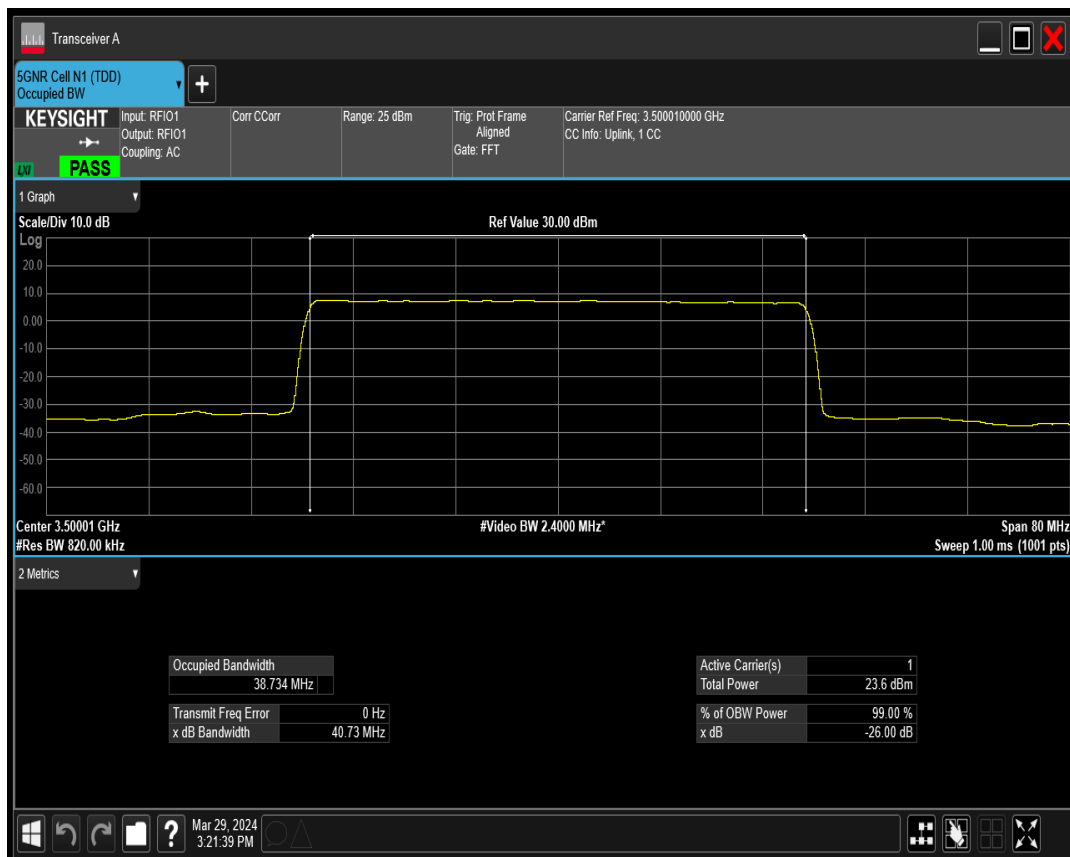
n77(3450-3550) SCS=15kHz DFT_QPSK BW=40MHz Channel=633334 RB=216@0



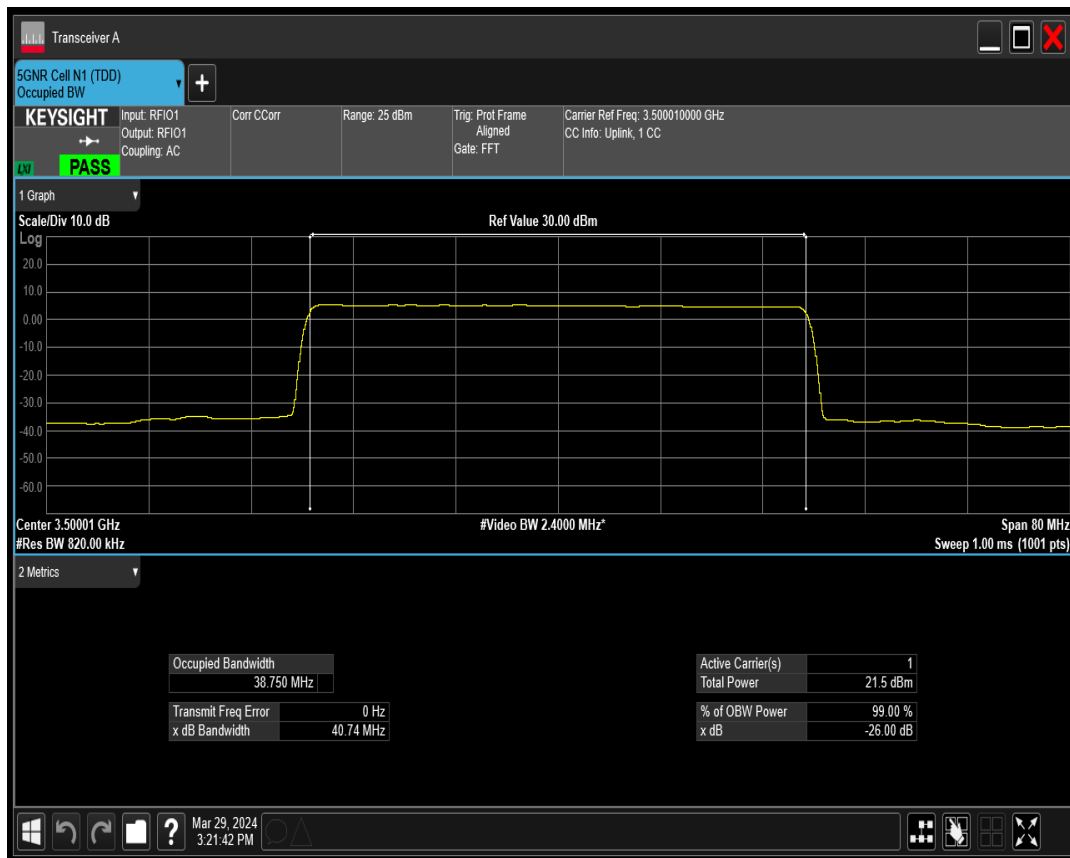
n77(3450-3550) SCS=15kHz DFT_QAM16 BW=40MHz Channel=633334 RB=216@0



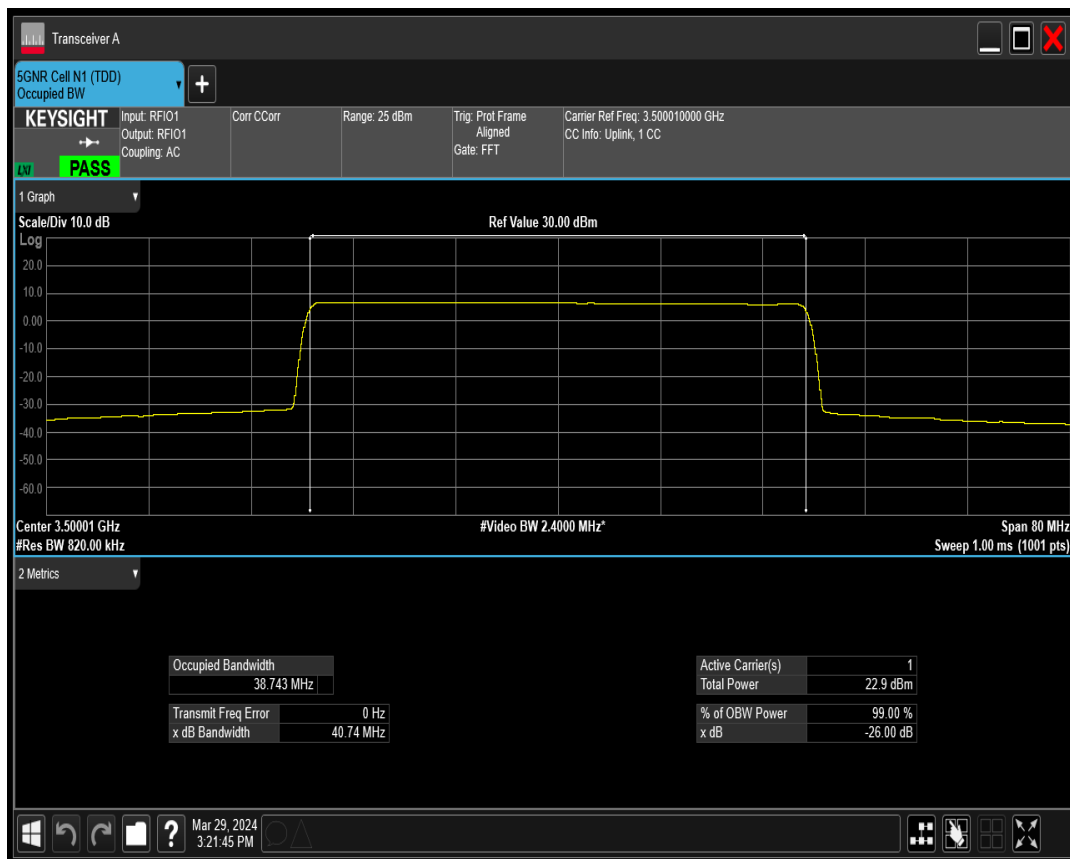
n77(3450-3550) SCS=15kHz DFT_QAM64 BW=40MHz Channel=633334 RB=216@0



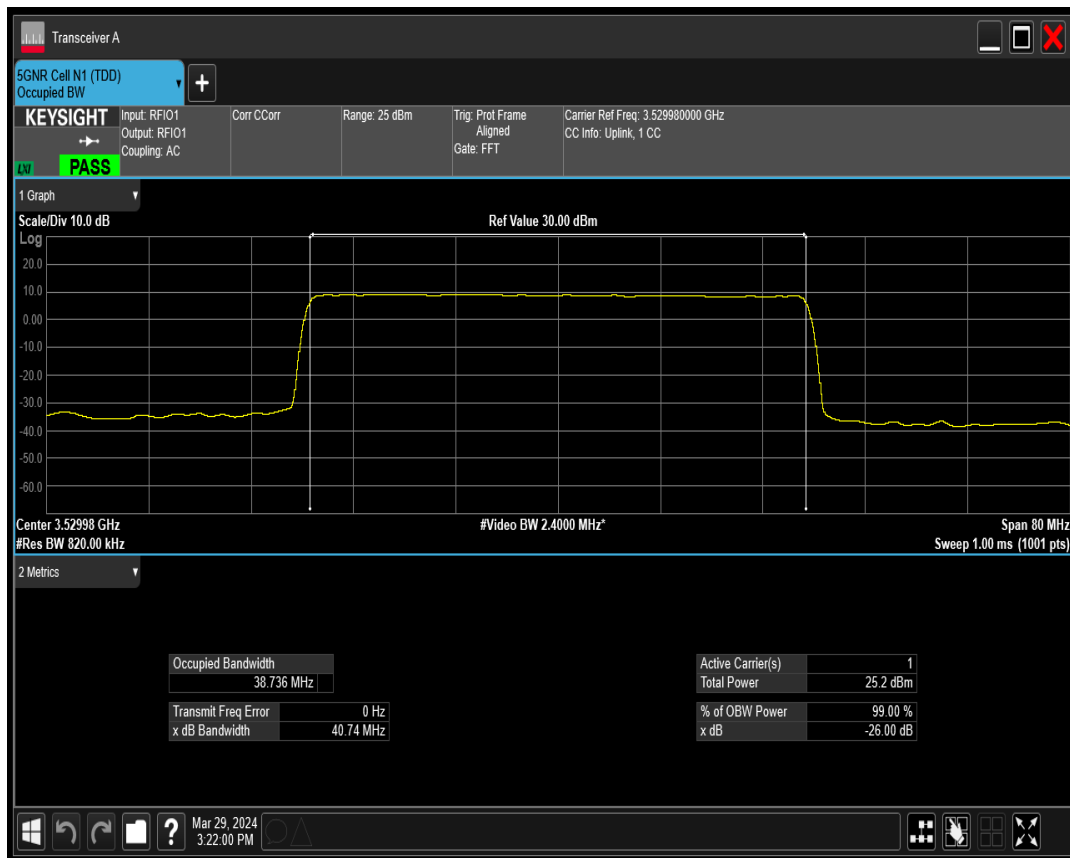
n77(3450-3550) SCS=15kHz DFT_QAM256 BW=40MHz Channel=633334 RB=216@0



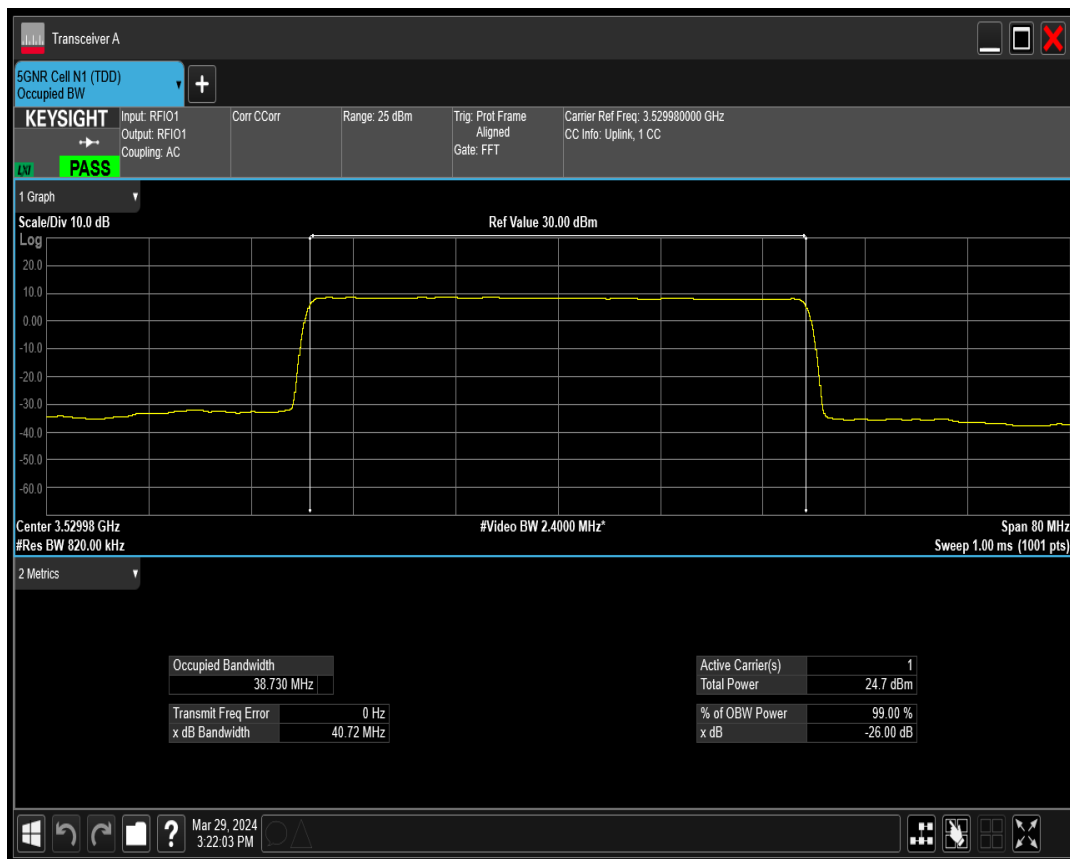
n77(3450-3550) SCS=15kHz CP_QPSK BW=40MHz Channel=633334 RB=216@0



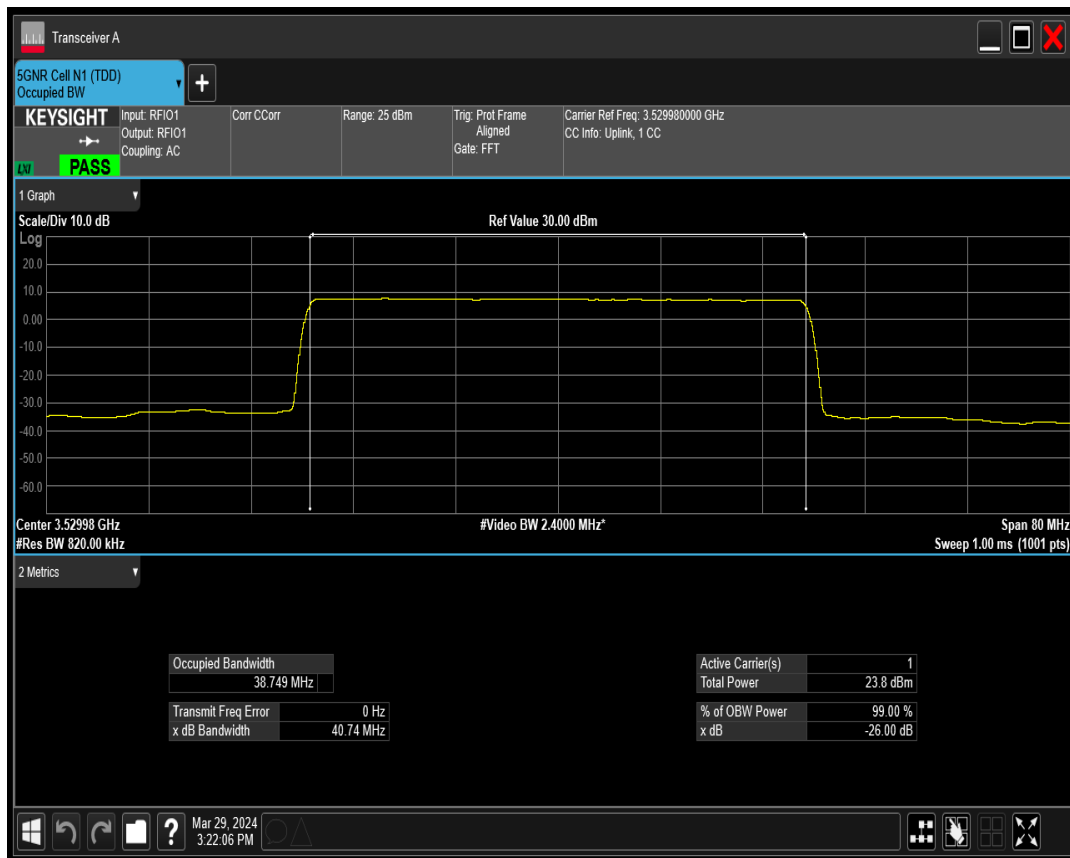
n77(3450-3550) SCS=15kHz DFT_BPSK BW=40MHz Channel=635332 RB=216@0



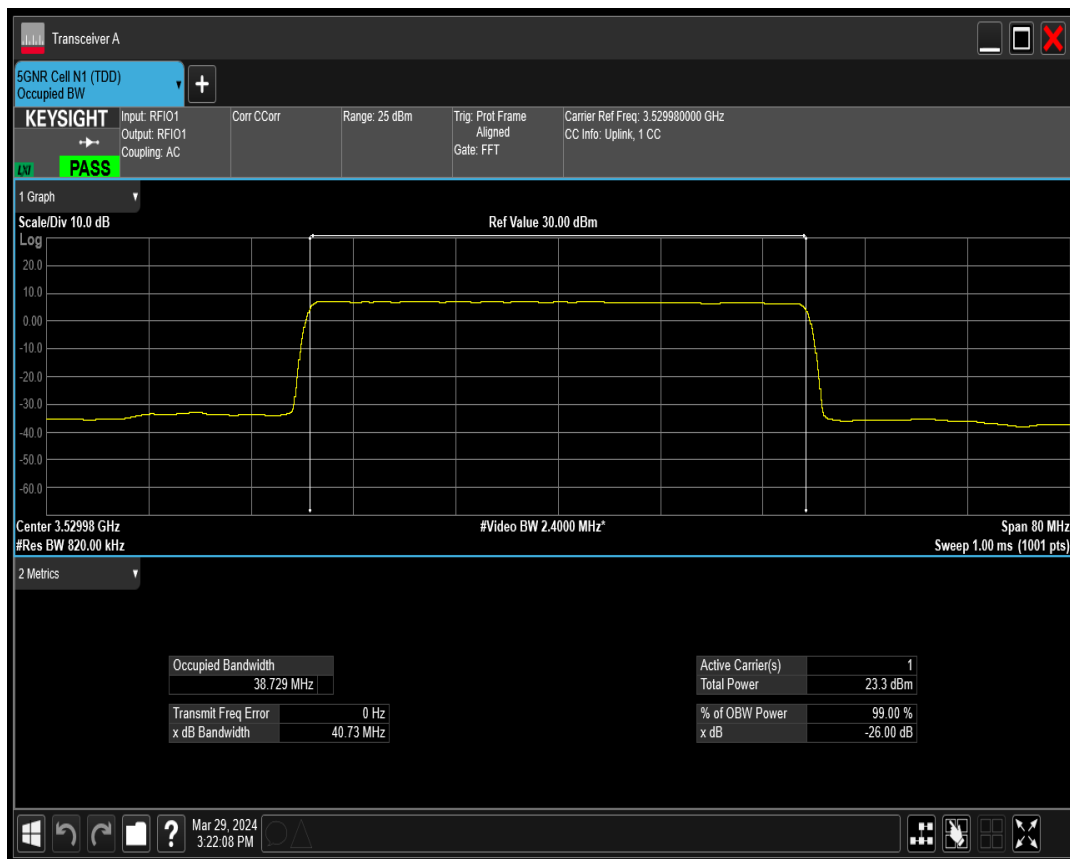
n77(3450-3550) SCS=15kHz DFT_QPSK BW=40MHz Channel=635332 RB=216@0



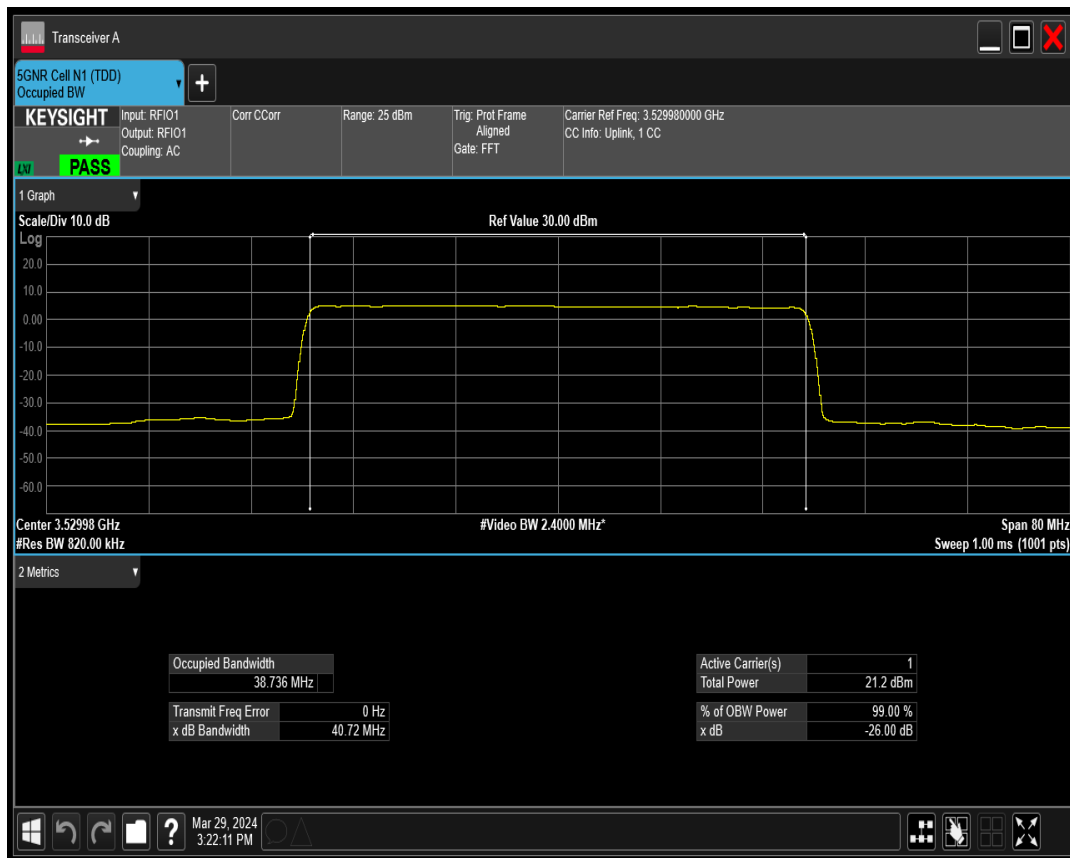
n77(3450-3550) SCS=15kHz DFT_QAM16 BW=40MHz Channel=635332 RB=216@0



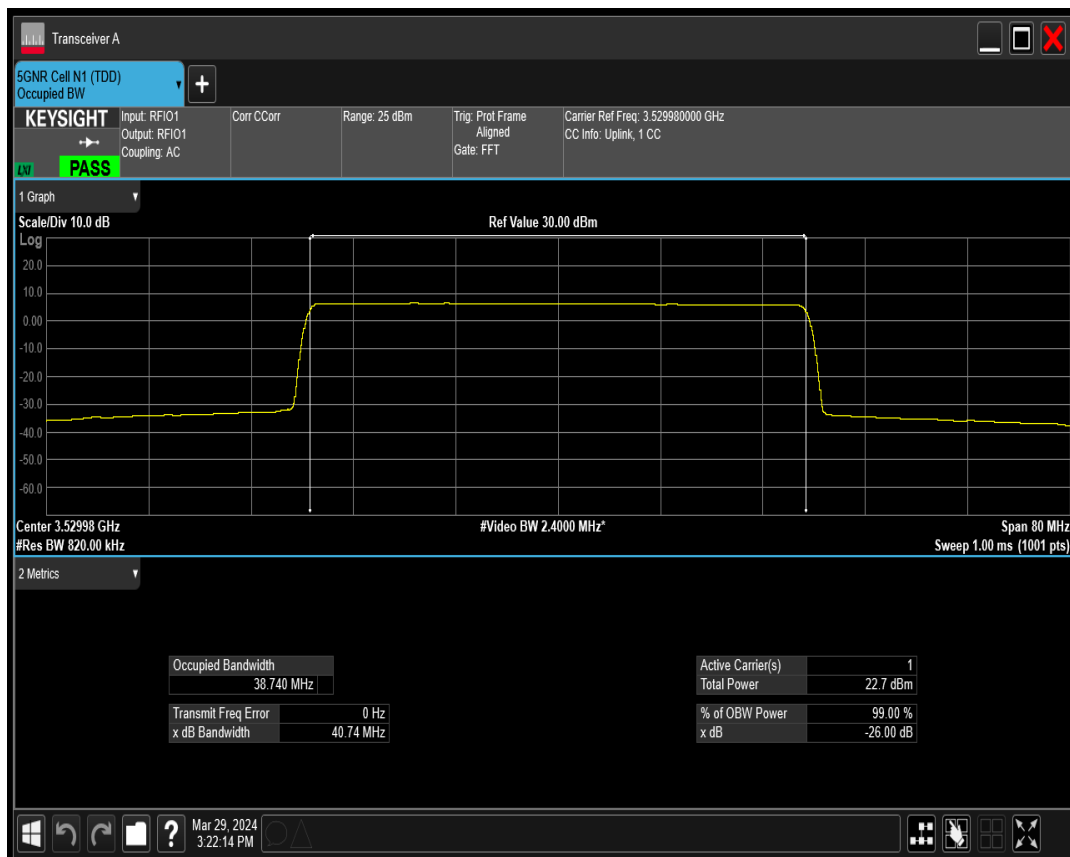
n77(3450-3550) SCS=15kHz DFT_QAM64 BW=40MHz Channel=635332 RB=216@0



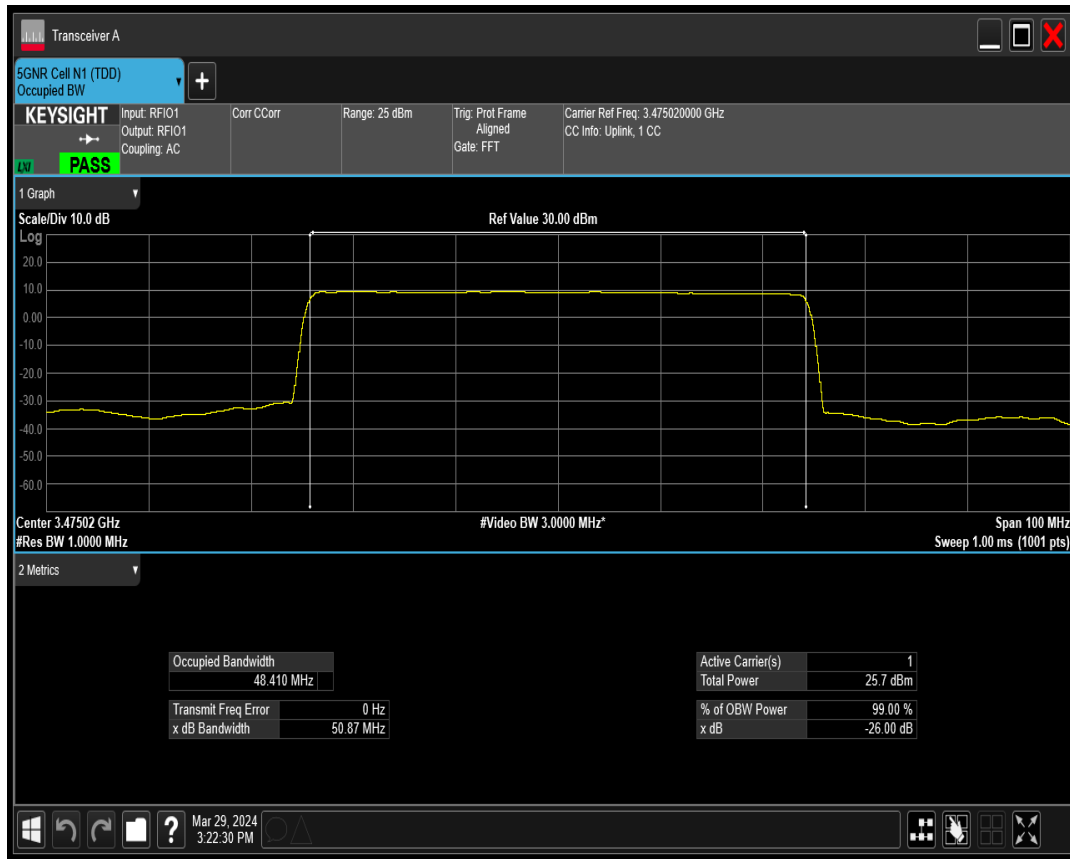
n77(3450-3550) SCS=15kHz DFT_QAM256 BW=40MHz Channel=635332 RB=216@0



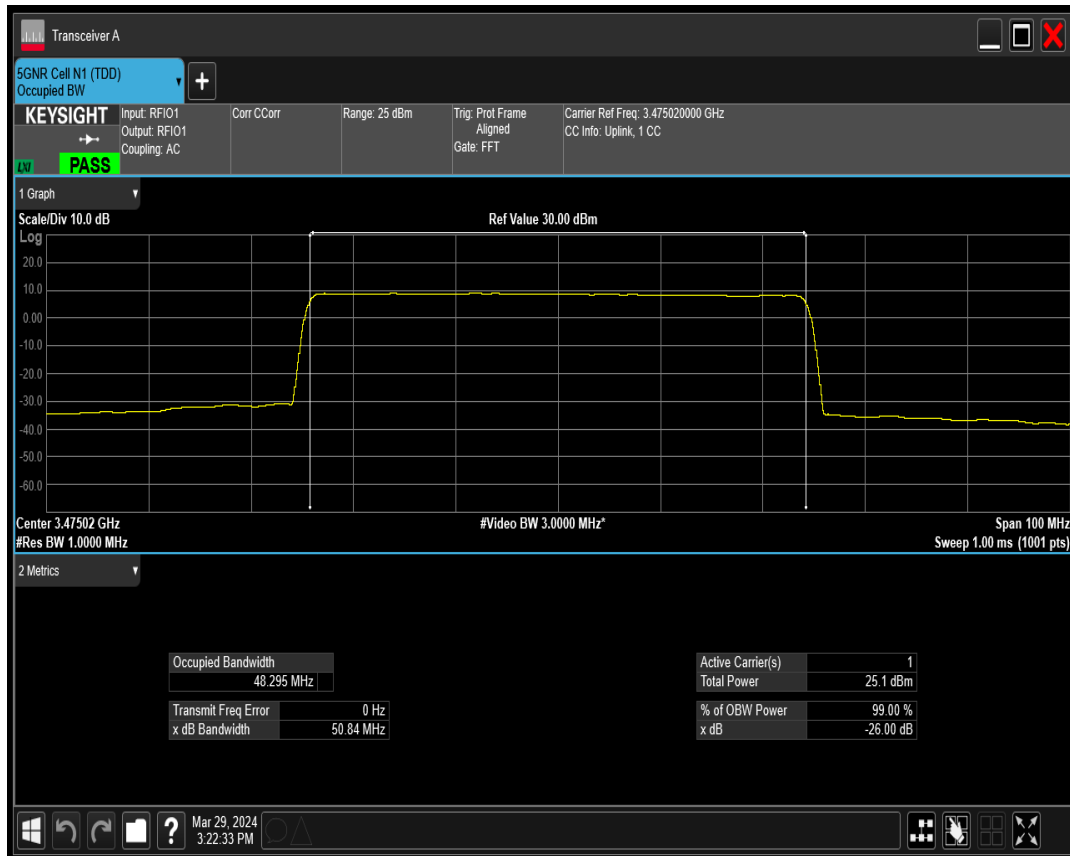
n77(3450-3550) SCS=15kHz CP_QPSK BW=40MHz Channel=635332 RB=216@0



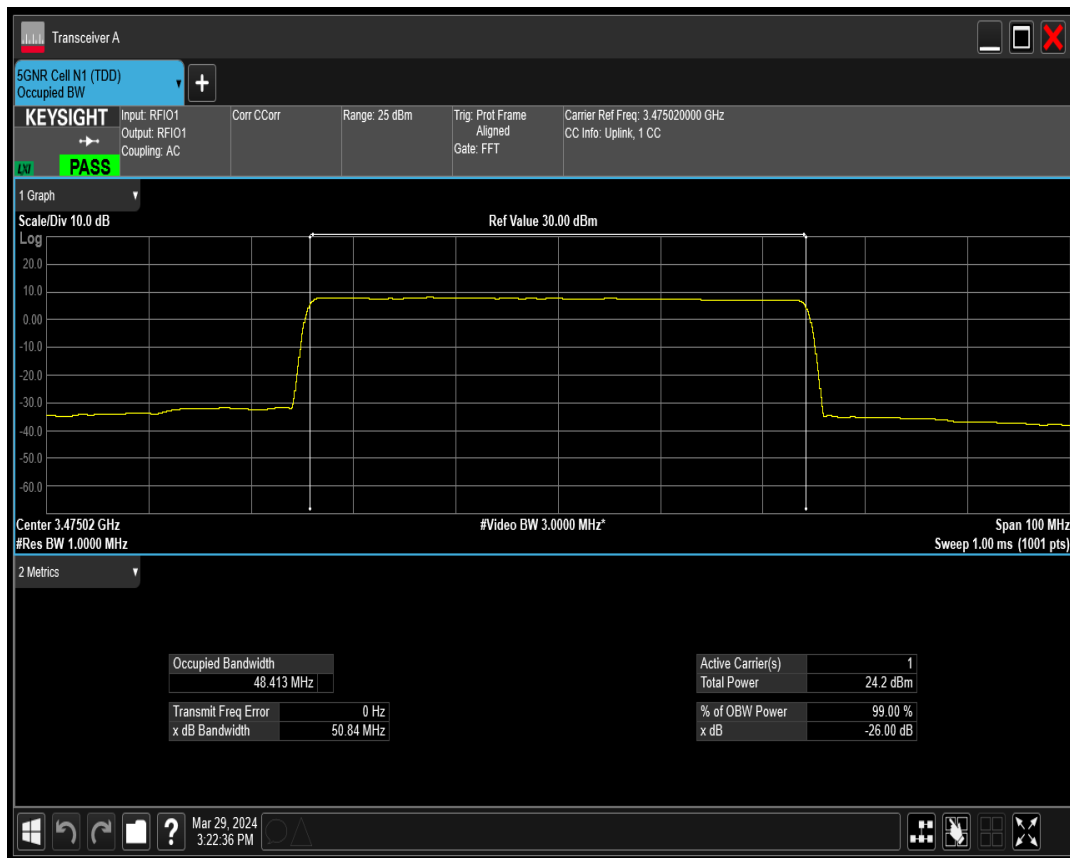
n77(3450-3550) SCS=15kHz DFT_BPSK BW=50MHz Channel=631668 RB=270@0



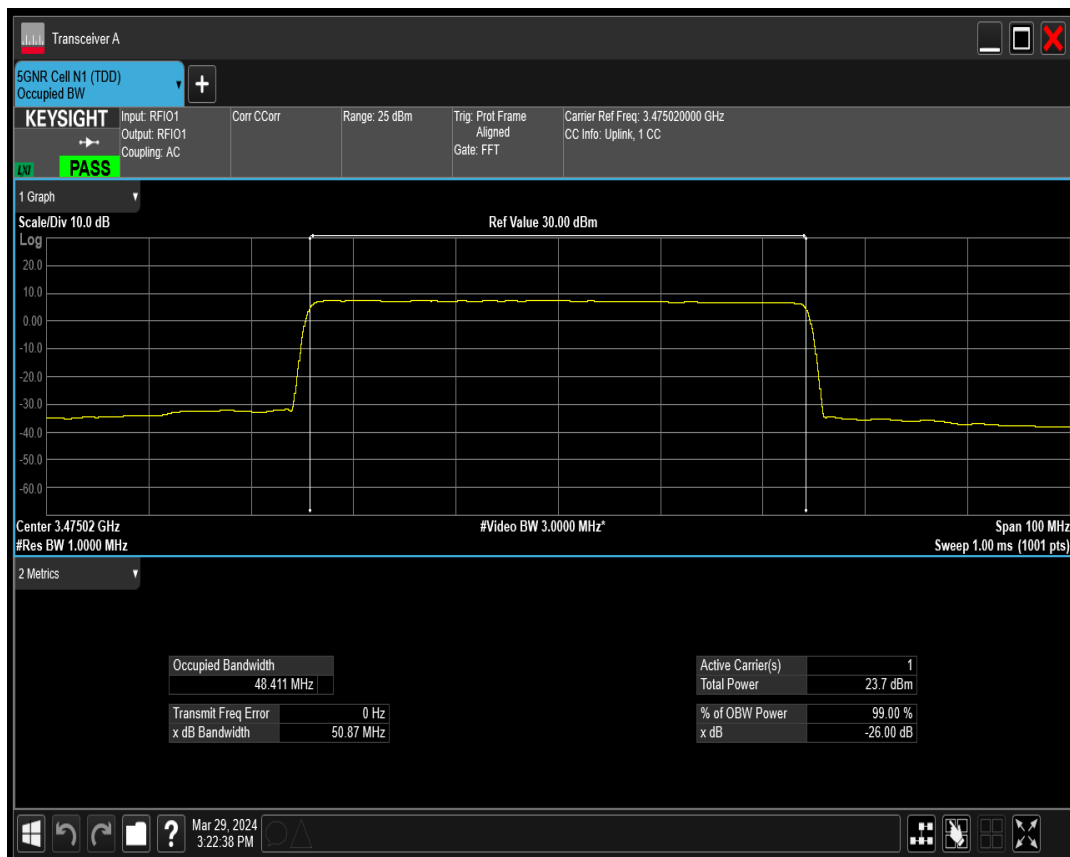
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=631668 RB=270@0



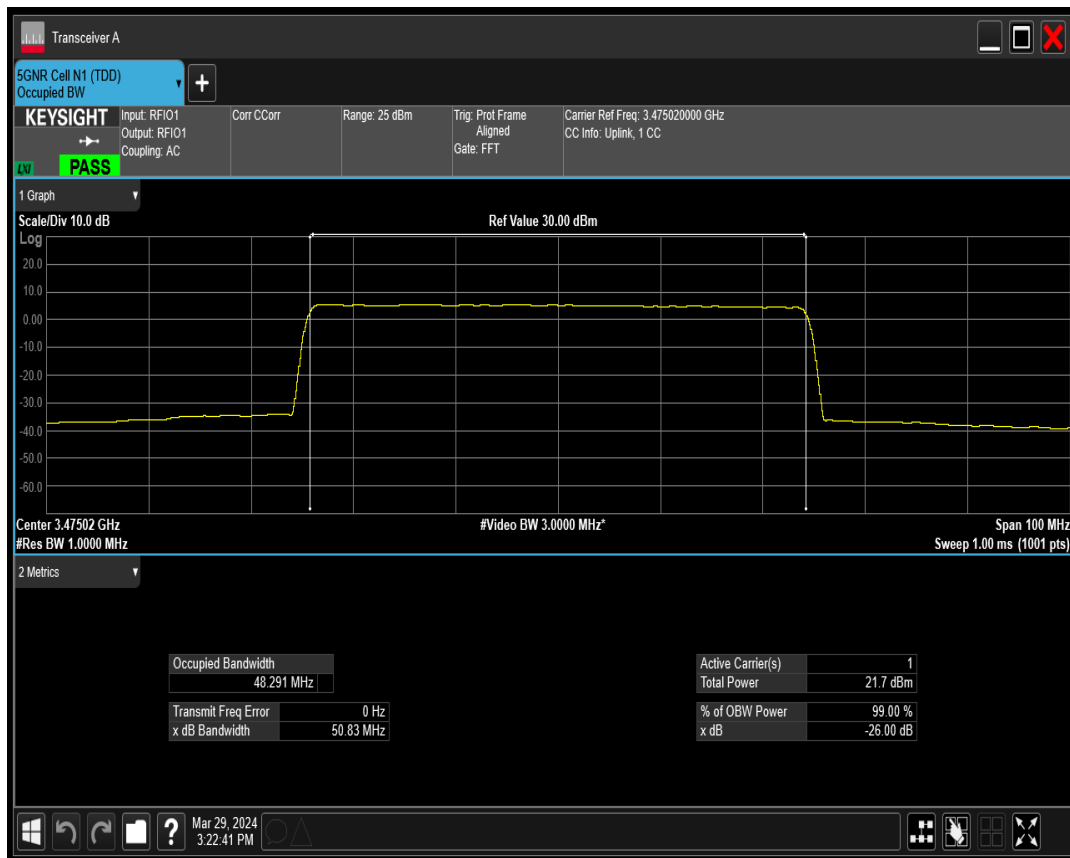
n77(3450-3550) SCS=15kHz DFT_QAM16 BW=50MHz Channel=631668 RB=270@0



n77(3450-3550) SCS=15kHz DFT_QAM64 BW=50MHz Channel=631668 RB=270@0



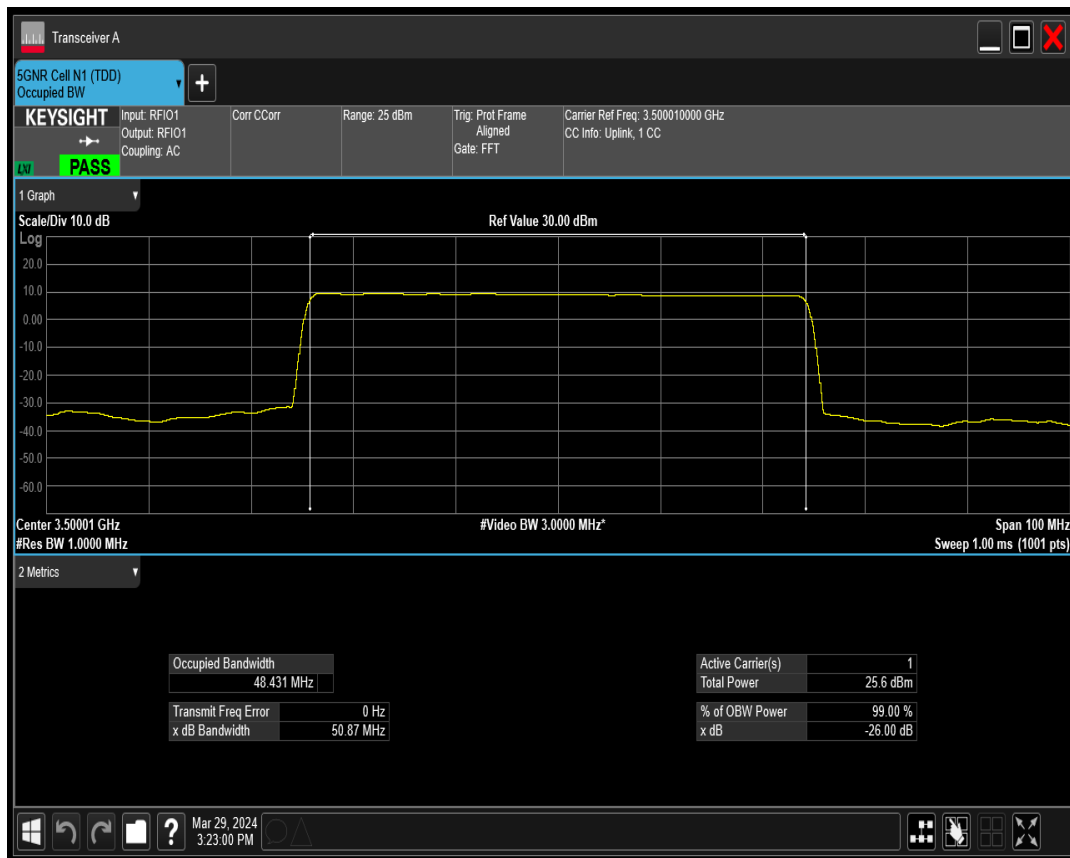
n77(3450-3550) SCS=15kHz DFT_QAM256 BW=50MHz Channel=631668 RB=270@0



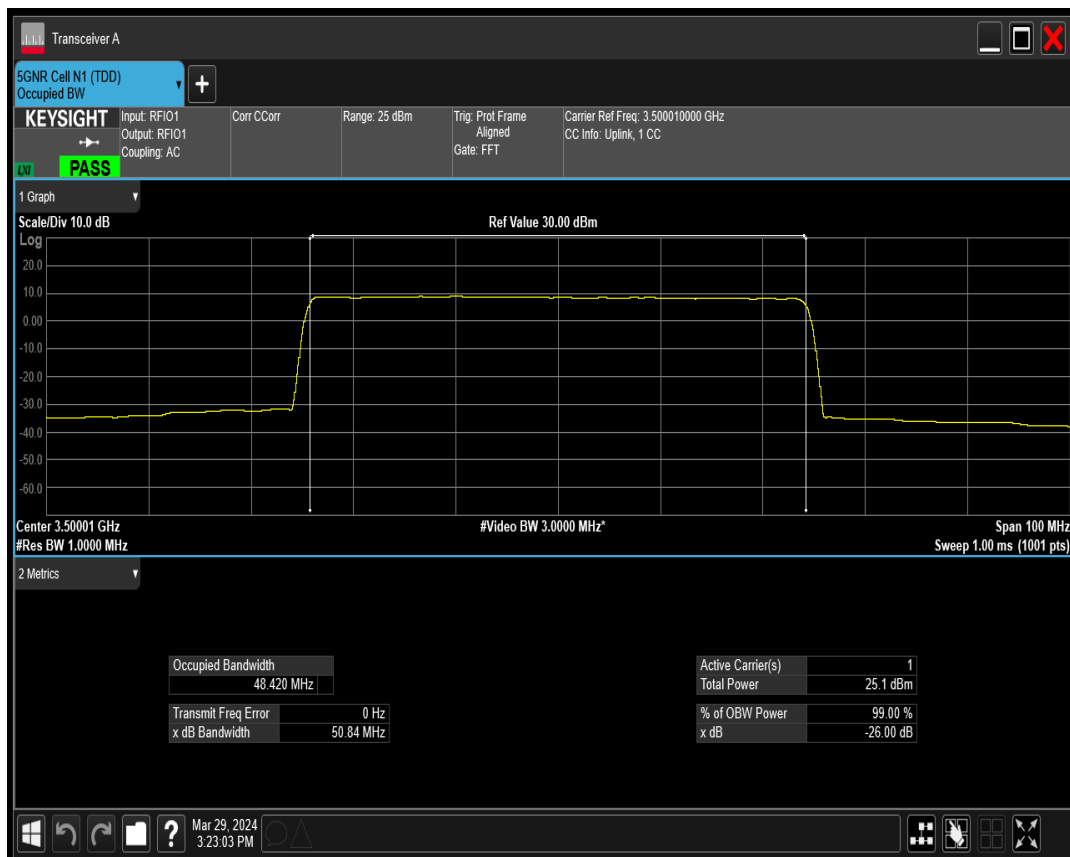
n77(3450-3550) SCS=15kHz CP_QPSK BW=50MHz Channel=631668 RB=270@0



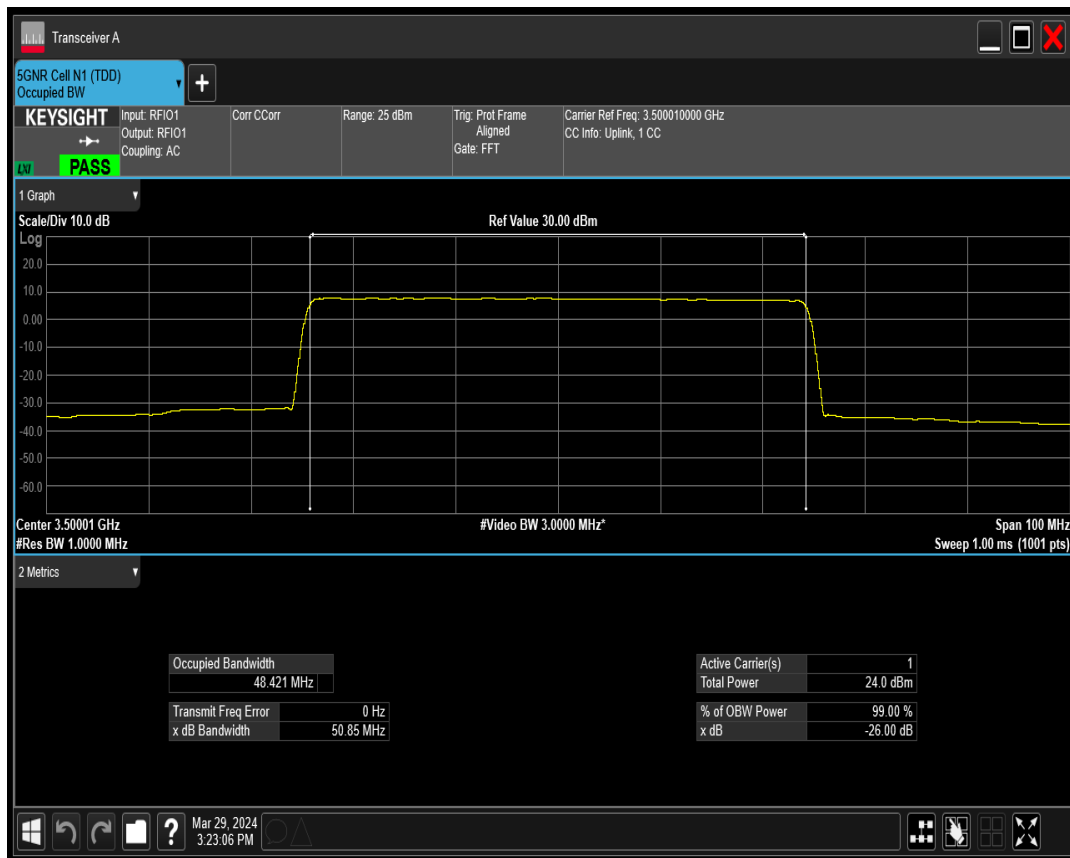
n77(3450-3550) SCS=15kHz DFT_BPSK BW=50MHz Channel=633334 RB=270@0



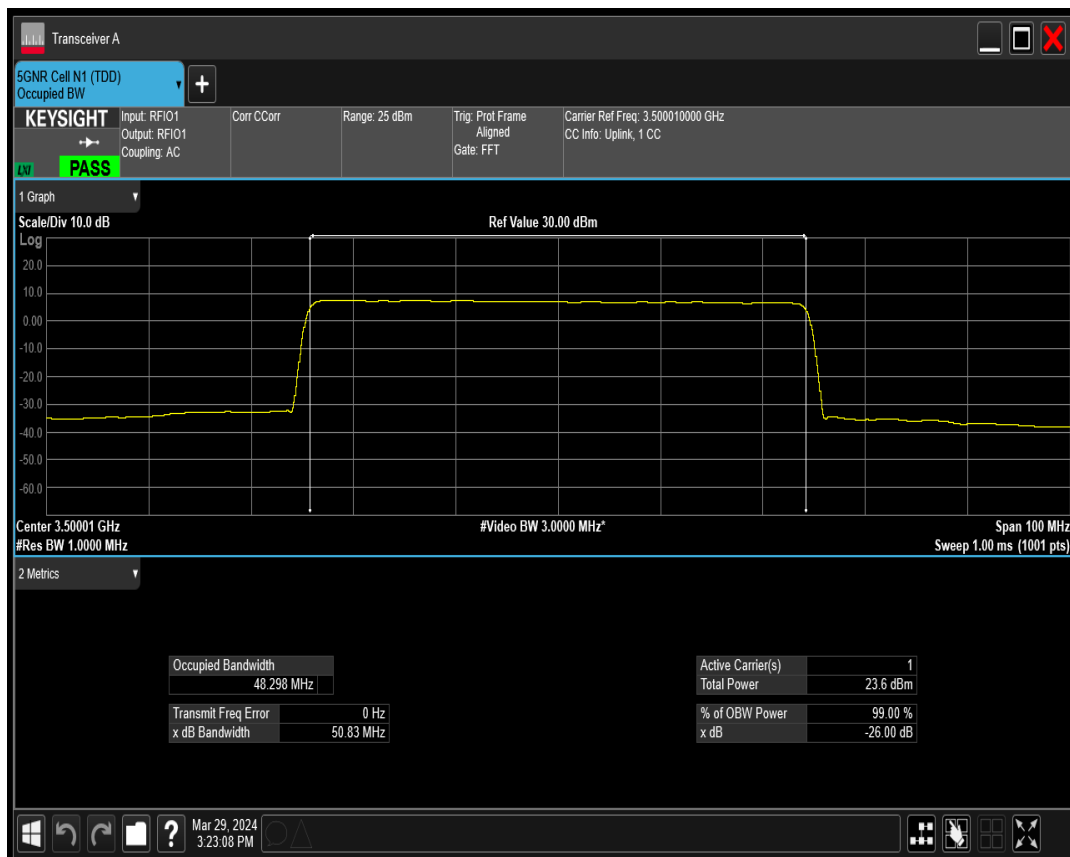
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=633334 RB=270@0



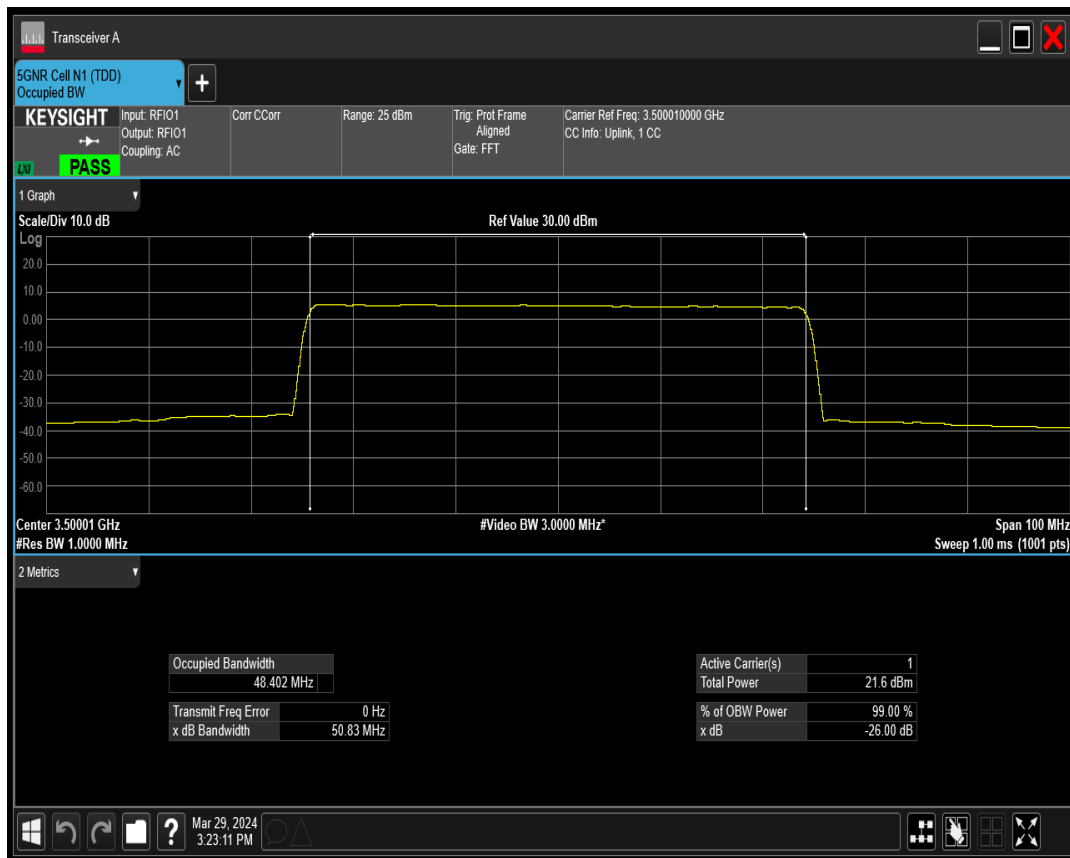
n77(3450-3550) SCS=15kHz DFT_QAM16 BW=50MHz Channel=633334 RB=270@0



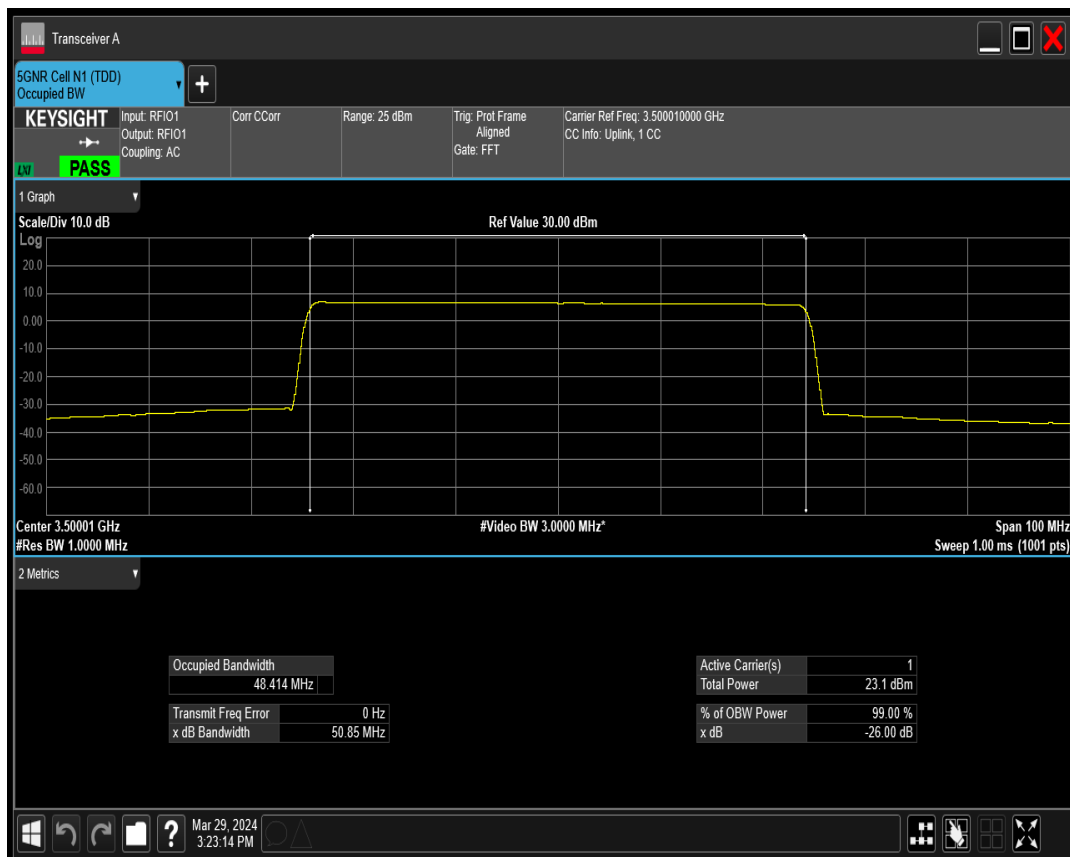
n77(3450-3550) SCS=15kHz DFT_QAM64 BW=50MHz Channel=633334 RB=270@0



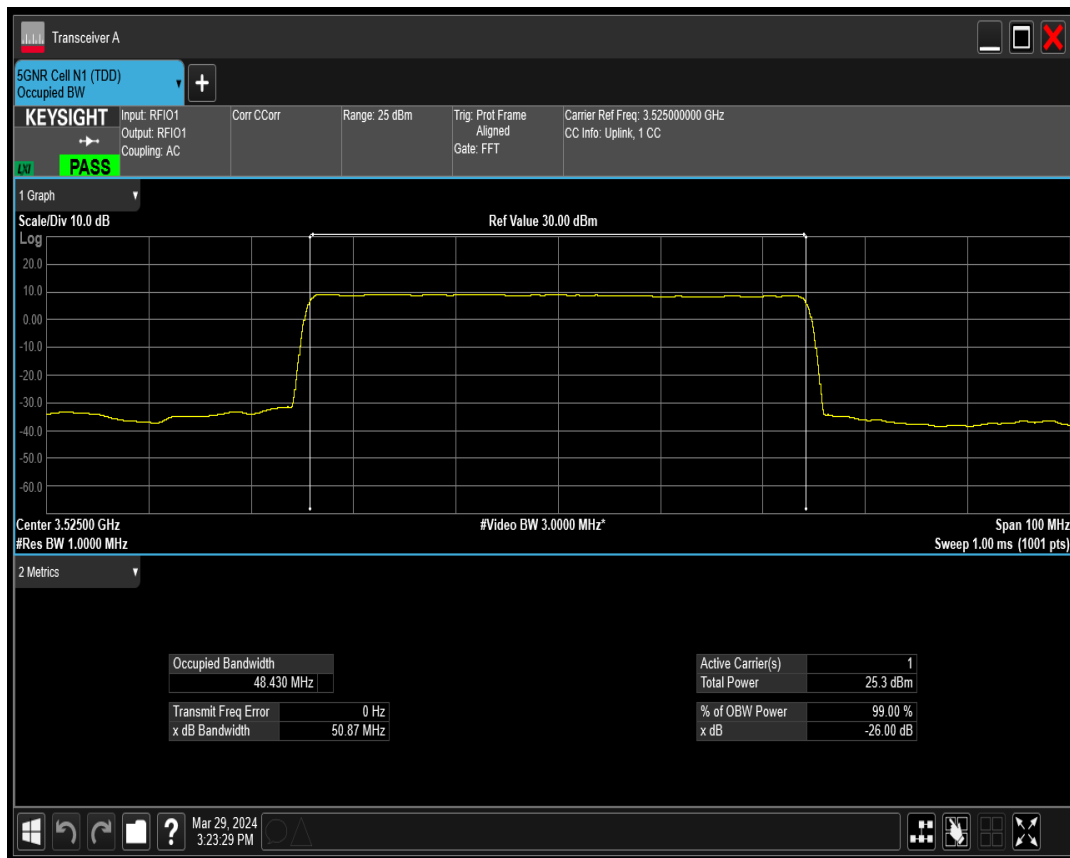
n77(3450-3550) SCS=15kHz DFT_QAM256 BW=50MHz Channel=633334 RB=270@0



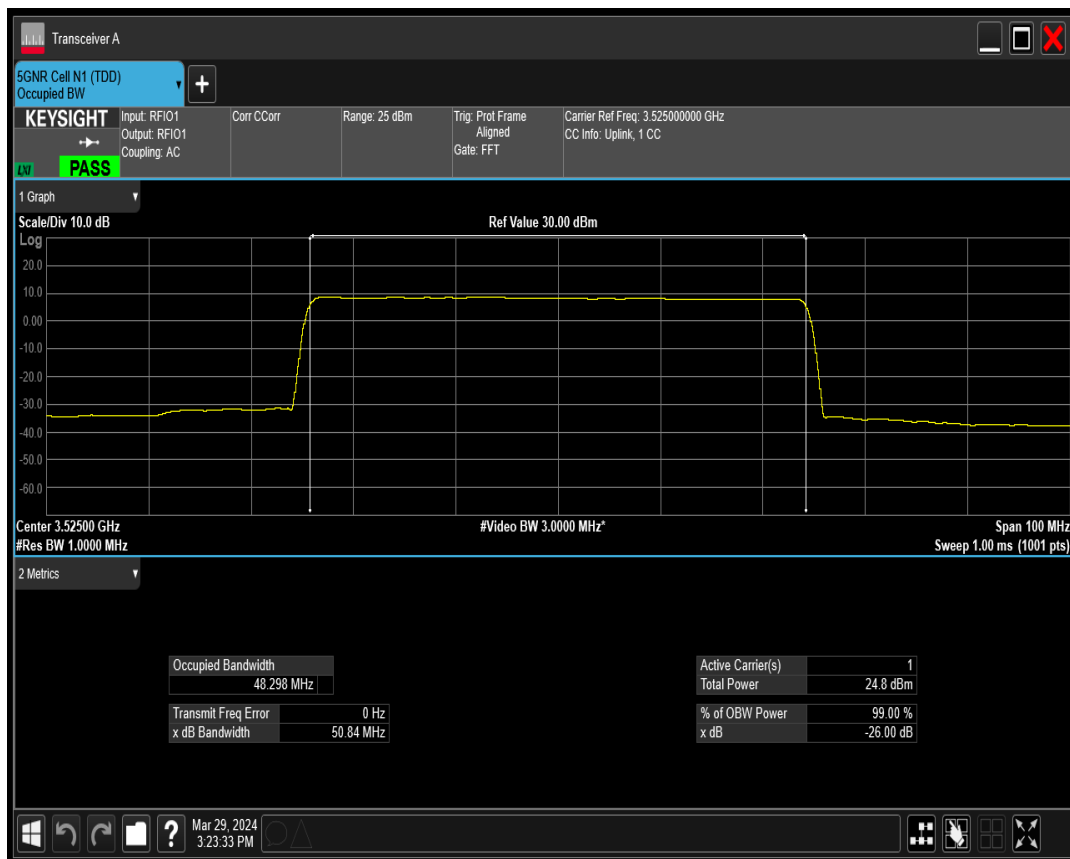
n77(3450-3550) SCS=15kHz CP_QPSK BW=50MHz Channel=633334 RB=270@0



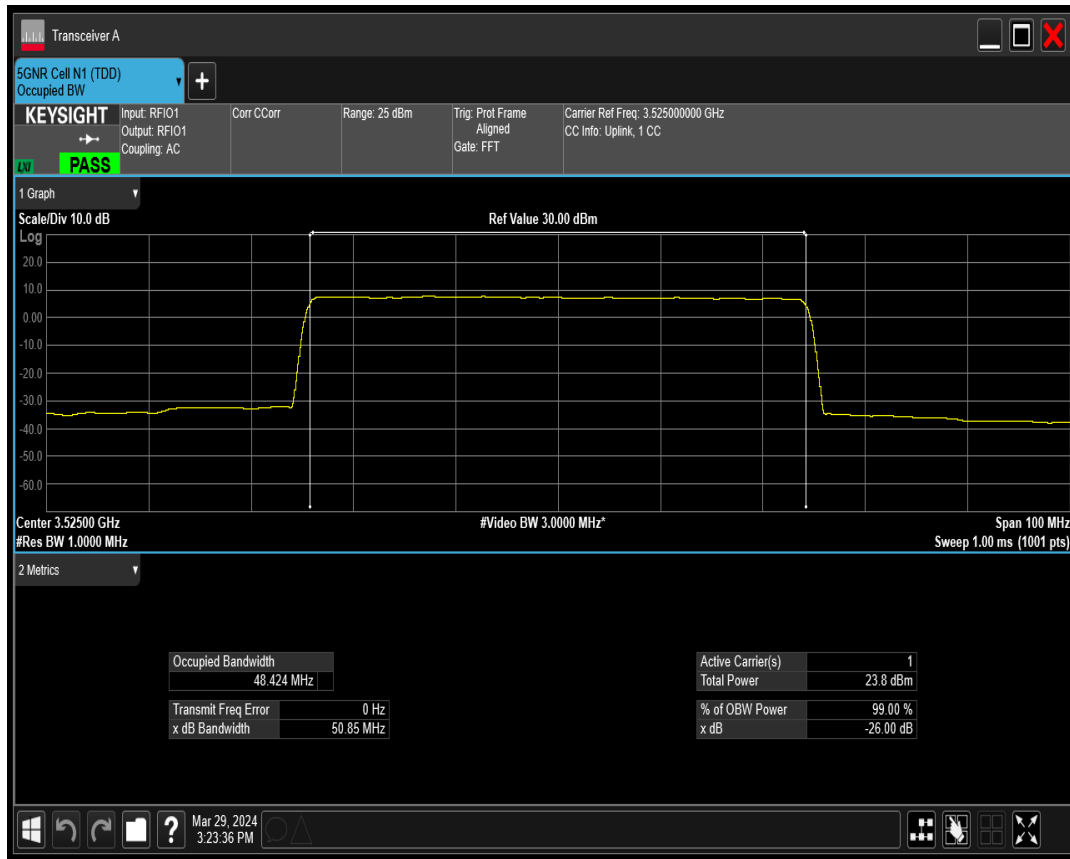
n77(3450-3550) SCS=15kHz DFT_BPSK BW=50MHz Channel=635000 RB=270@0



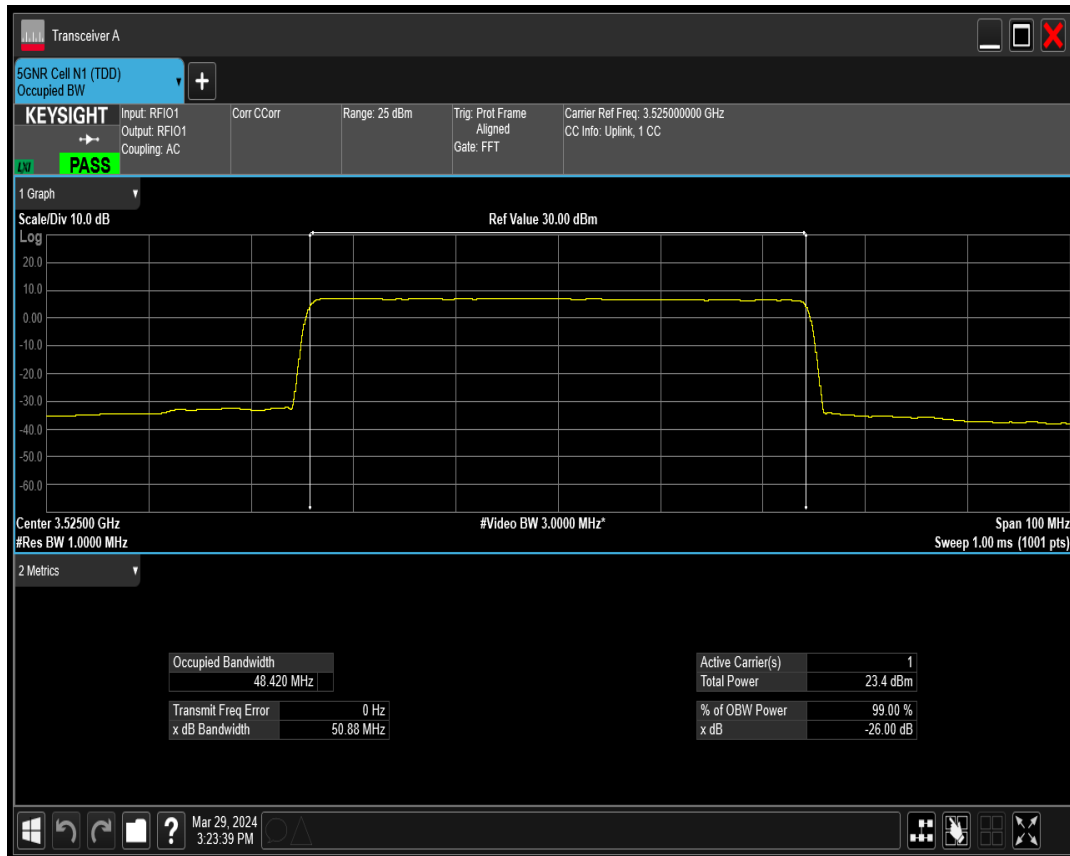
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=635000 RB=270@0



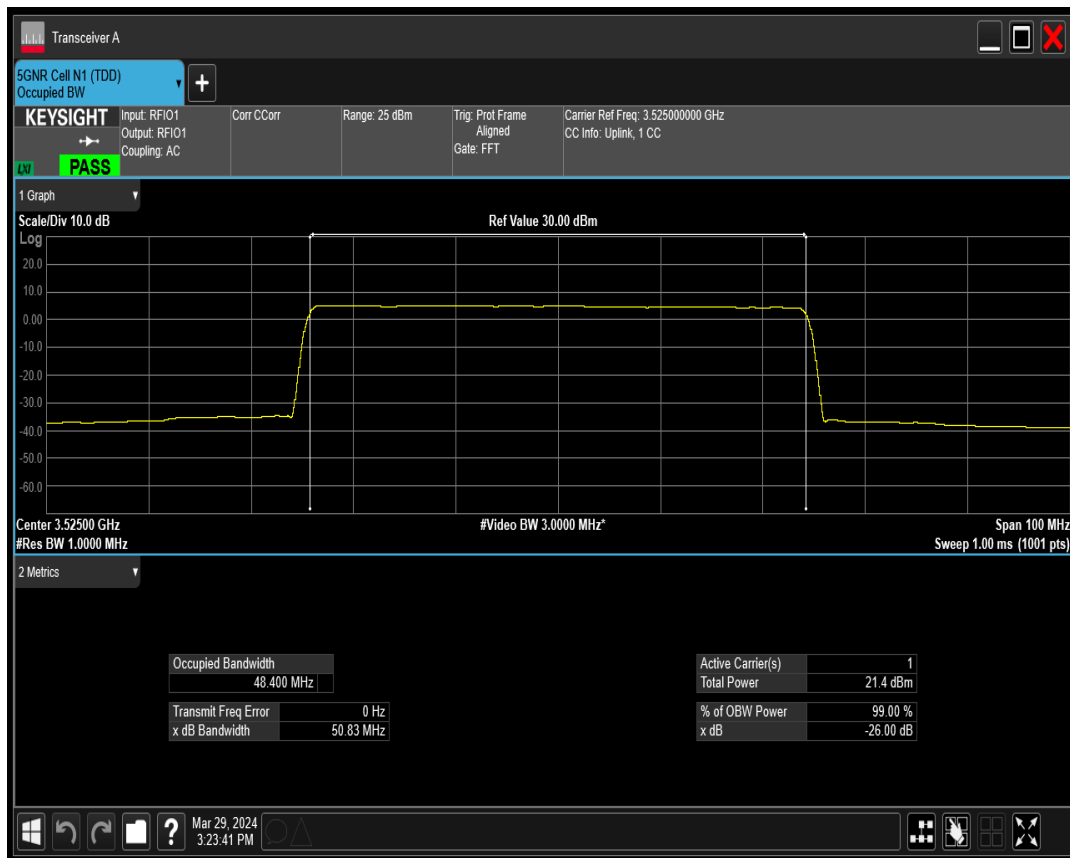
n77(3450-3550) SCS=15kHz DFT_QAM16 BW=50MHz Channel=635000 RB=270@0



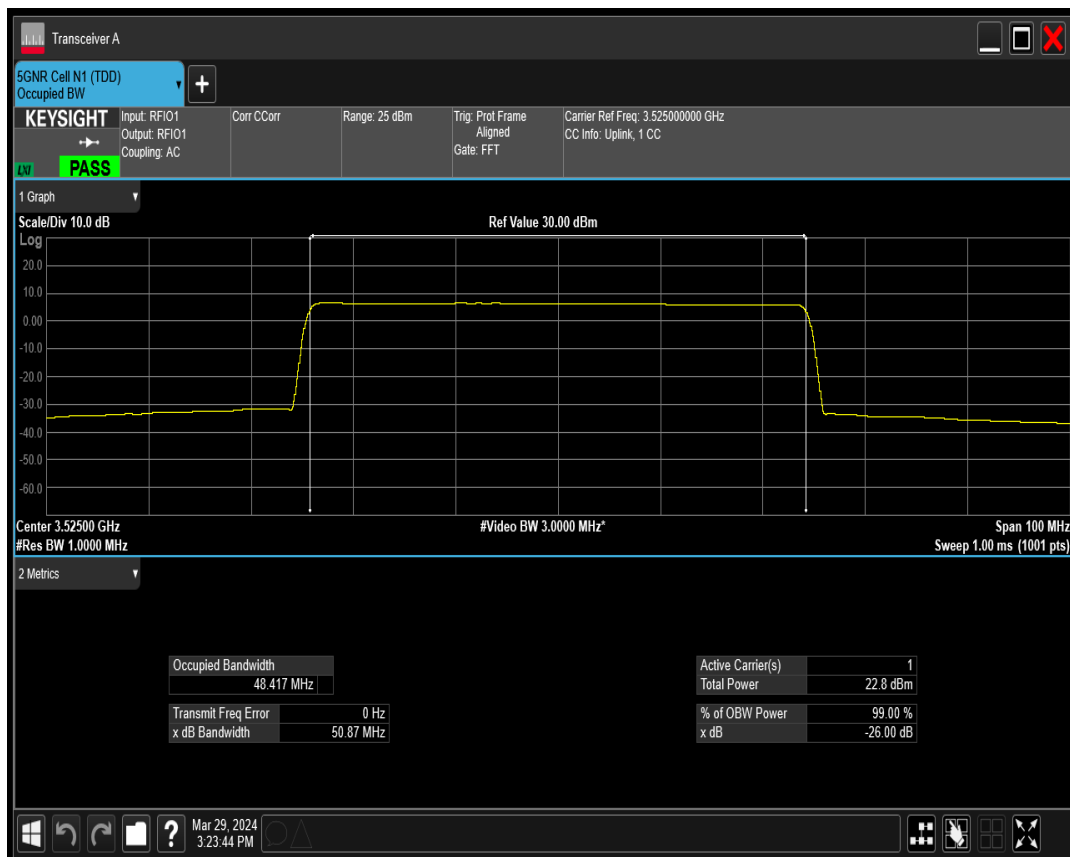
n77(3450-3550) SCS=15kHz DFT_QAM64 BW=50MHz Channel=635000 RB=270@0



n77(3450-3550) SCS=15kHz DFT_QAM256 BW=50MHz Channel=635000 RB=270@0



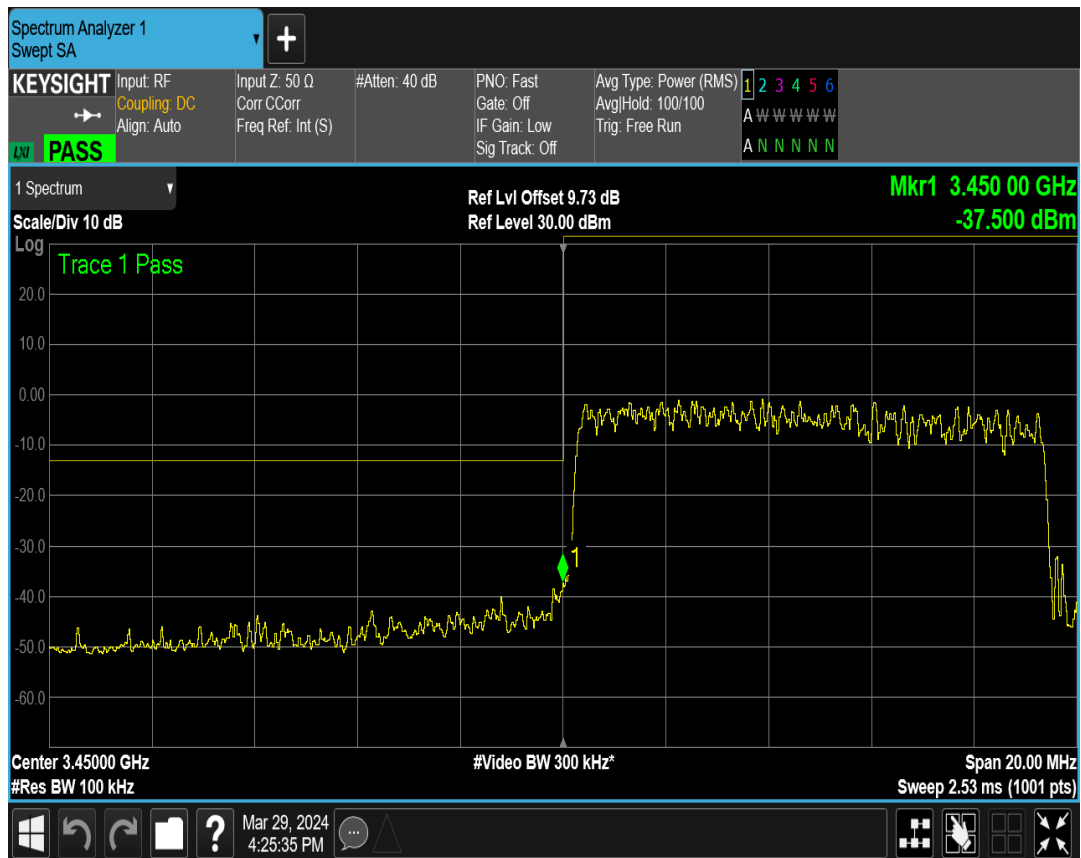
n77(3450-3550) SCS=15kHz CP_QPSK BW=50MHz Channel=635000 RB=270@0



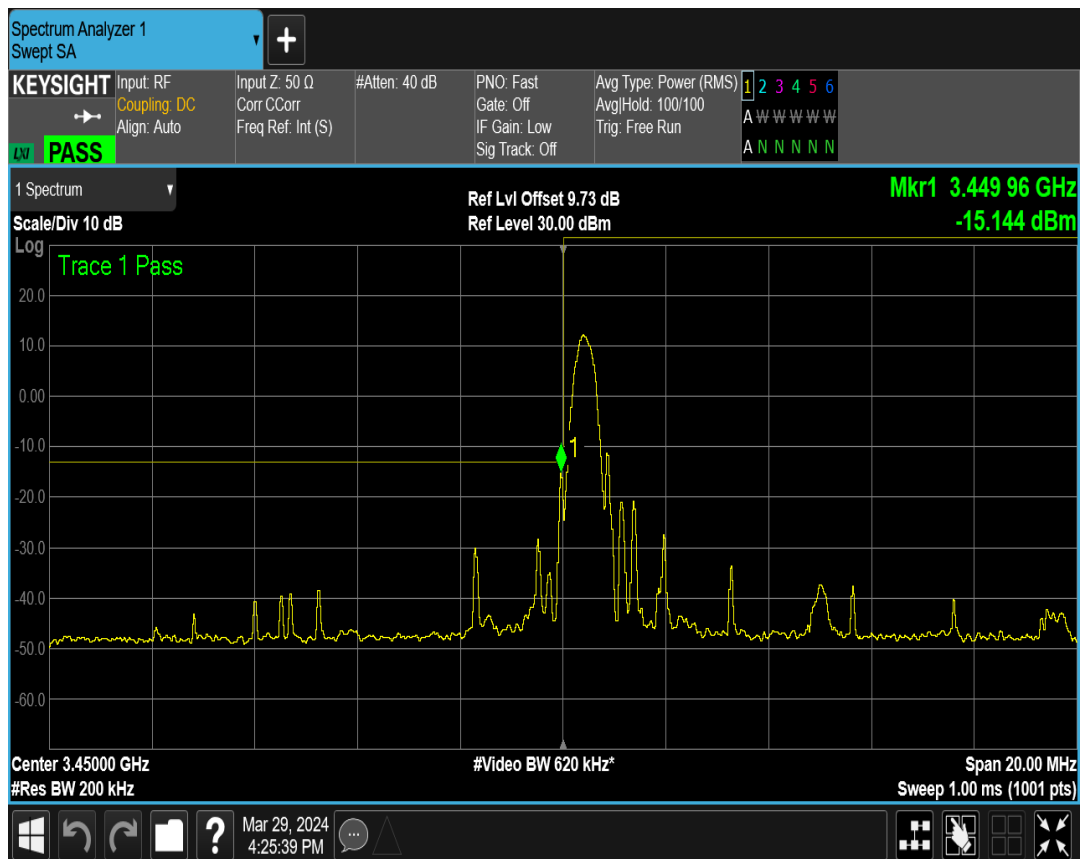
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3450-3550)	15	10	630334	50@0	DFT_QPSK	3450.00	-37.50	-13	PASS
n77(3450-3550)	15	10	630334	1@0	DFT_QPSK	3449.96	-15.14	-13	PASS
n77(3450-3550)	15	10	636332	50@0	DFT_QPSK	3550.16	-39.74	-13	PASS
n77(3450-3550)	15	10	636332	1@51	DFT_QPSK	3550.08	-17.59	-13	PASS
n77(3450-3550)	15	50	631668	270@0	DFT_QPSK	3449.70	-30.96	-13	PASS
n77(3450-3550)	15	50	631668	1@0	DFT_QPSK	3450.00	-24.71	-13	PASS
n77(3450-3550)	15	50	635000	270@0	DFT_QPSK	3550.00	-32.87	-13	PASS
n77(3450-3550)	15	50	635000	1@269	DFT_QPSK	3550.20	-28.49	-13	PASS

n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=630334 RB=50@0



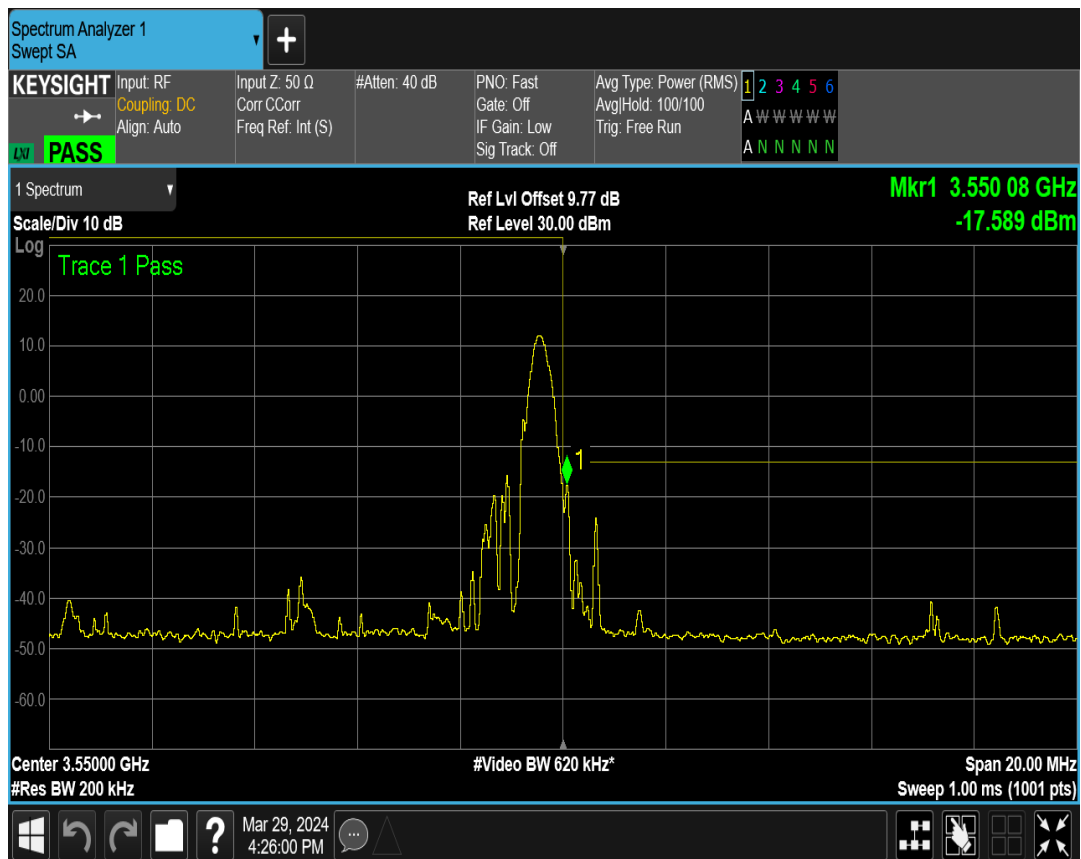
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=630334 RB=1@0



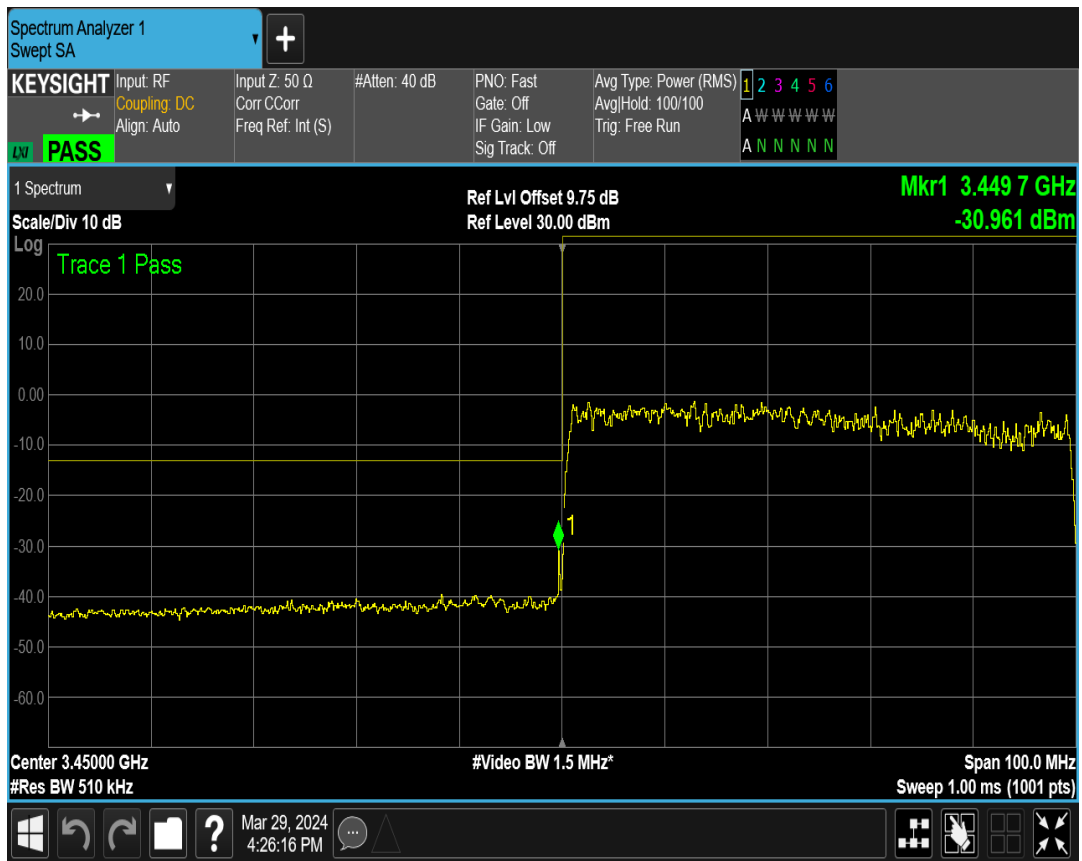
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=636332 RB=50@0



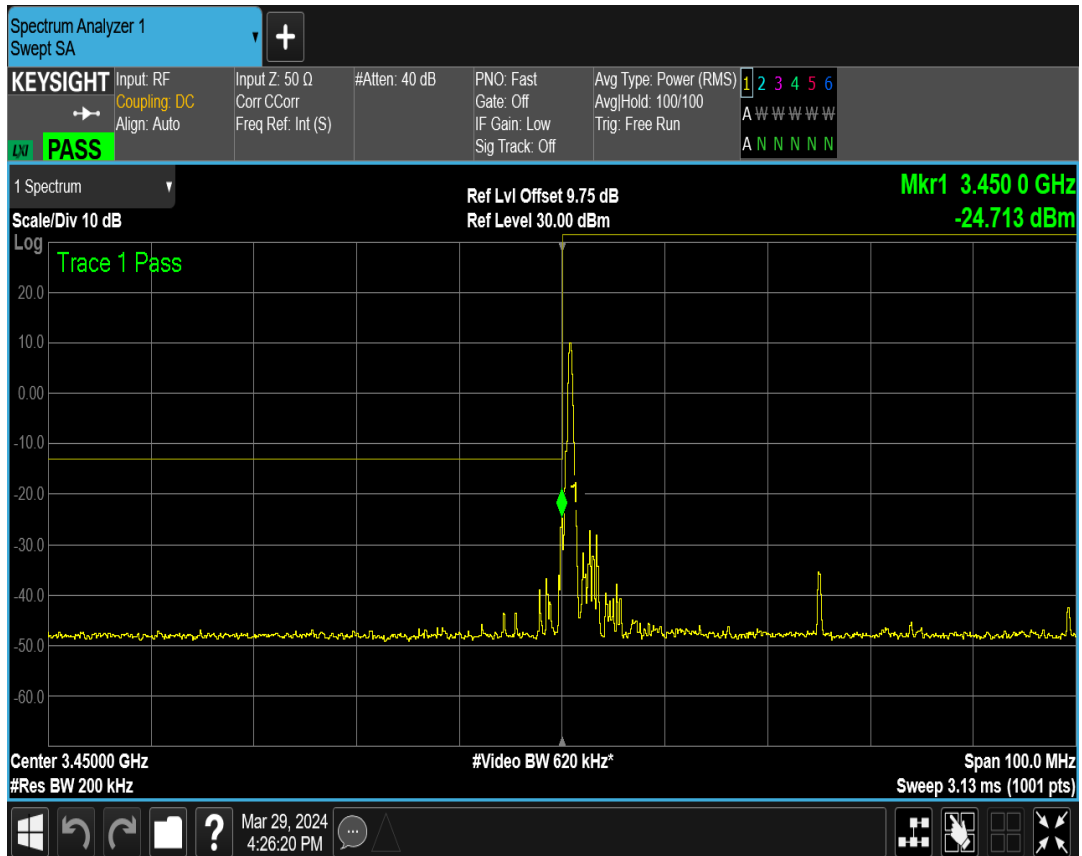
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=636332 RB=1@51



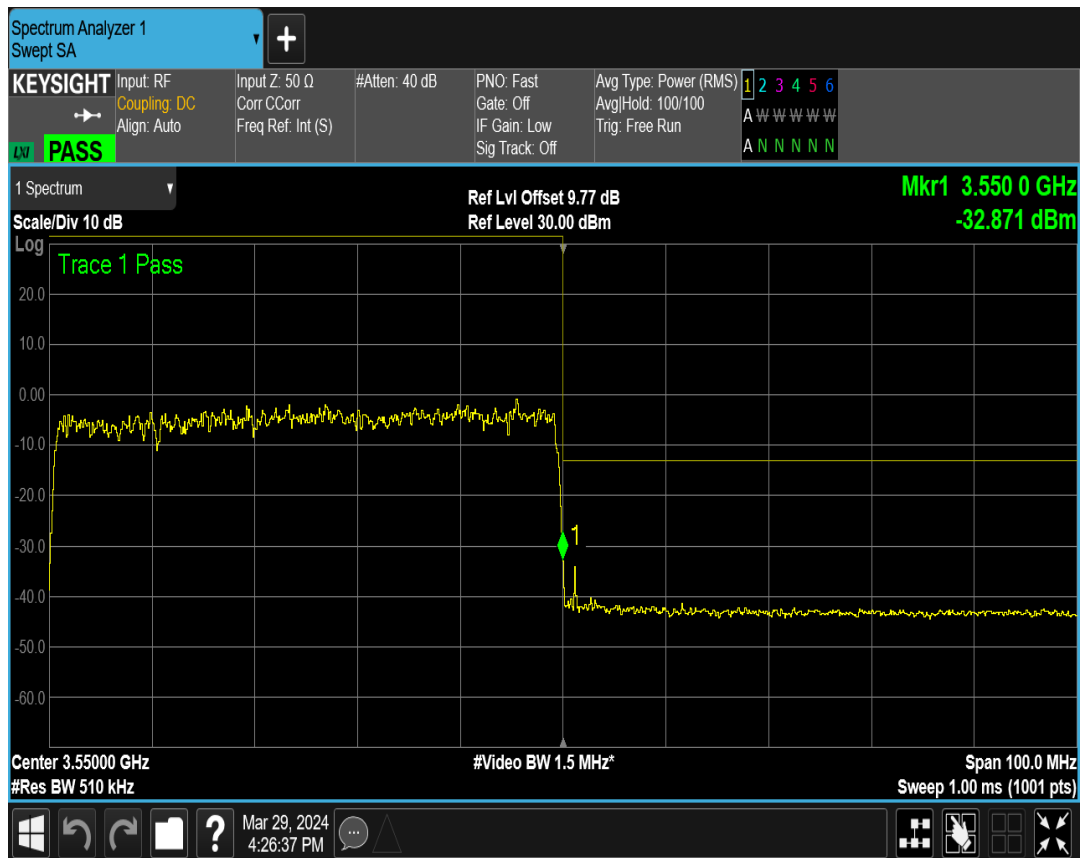
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=631668 RB=270@0



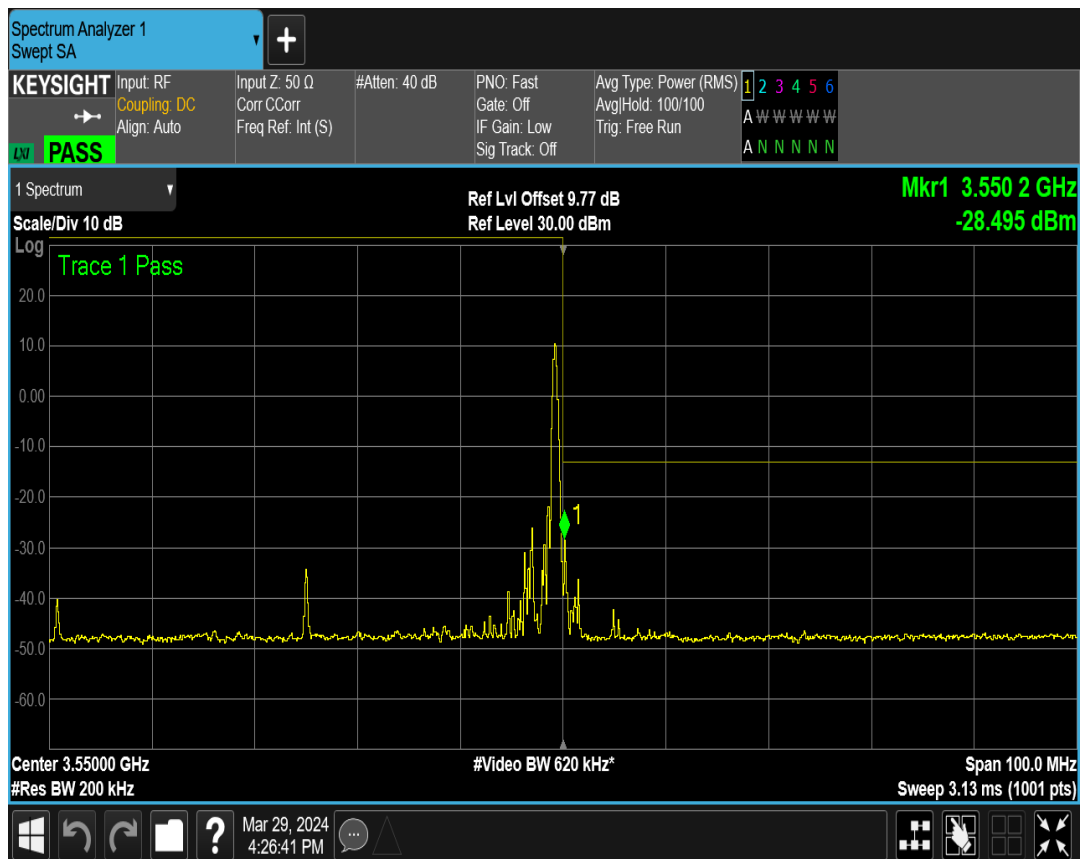
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=631668 RB=1@0



n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=635000 RB=270@0



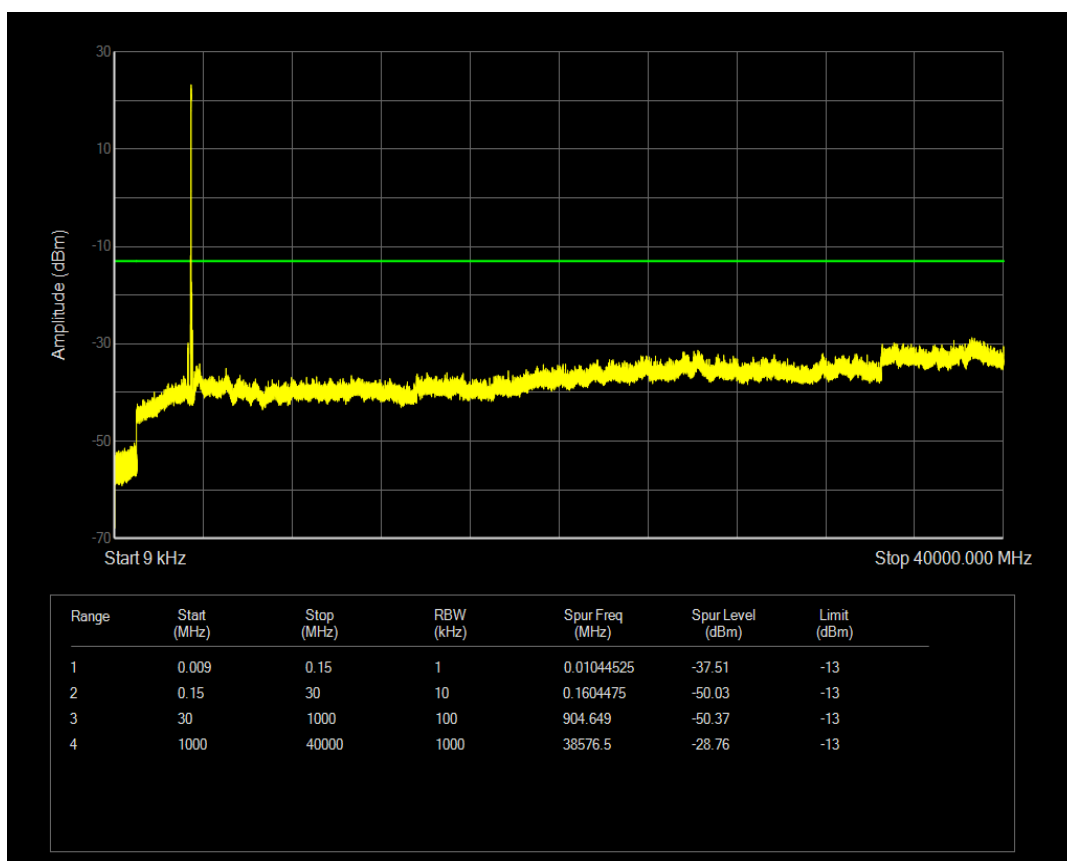
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=635000 RB=1@269



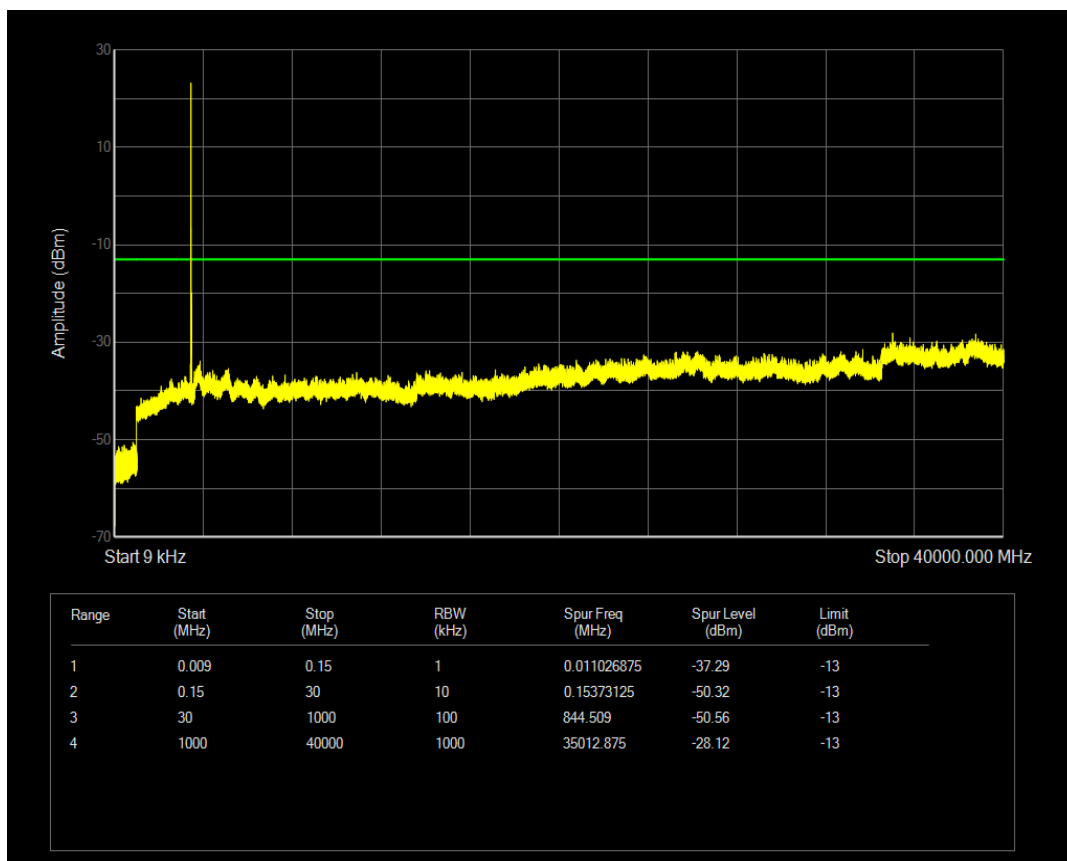
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3450-3550)	15	10	630334	50@0	DFT_QPSK	38576.50	-28.76	-13	PASS
n77(3450-3550)	15	10	630334	1@0	DFT_QPSK	35012.88	-28.12	-13	PASS
n77(3450-3550)	15	10	630334	1@51	DFT_QPSK	38829.03	-28.66	-13	PASS
n77(3450-3550)	15	10	633334	50@0	DFT_QPSK	38876.80	-28.05	-13	PASS
n77(3450-3550)	15	10	633334	1@0	DFT_QPSK	38830.98	-28.93	-13	PASS
n77(3450-3550)	15	10	633334	1@51	DFT_QPSK	38879.73	-27.78	-13	PASS
n77(3450-3550)	15	10	636332	50@0	DFT_QPSK	38699.35	-28.42	-13	PASS
n77(3450-3550)	15	10	636332	1@0	DFT_QPSK	3601.30	-27.06	-13	PASS
n77(3450-3550)	15	10	636332	1@51	DFT_QPSK	38705.20	-28.66	-13	PASS
n77(3450-3550)	15	50	631668	270@0	DFT_QPSK	38733.48	-28.89	-13	PASS
n77(3450-3550)	15	50	631668	1@0	DFT_QPSK	38949.93	-28.90	-13	PASS
n77(3450-3550)	15	50	631668	1@269	DFT_QPSK	38929.45	-28.29	-13	PASS
n77(3450-3550)	15	50	633334	270@0	DFT_QPSK	38818.30	-28.55	-13	PASS
n77(3450-3550)	15	50	633334	1@0	DFT_QPSK	38938.23	-28.74	-13	PASS
n77(3450-3550)	15	50	633334	1@269	DFT_QPSK	38678.88	-28.14	-13	PASS
n77(3450-3550)	15	50	635000	270@0	DFT_QPSK	38715.93	-28.69	-13	PASS
n77(3450-3550)	15	50	635000	1@0	DFT_QPSK	38697.40	-28.29	-13	PASS
n77(3450-3550)	15	50	635000	1@269	DFT_QPSK	38539.45	-28.06	-13	PASS

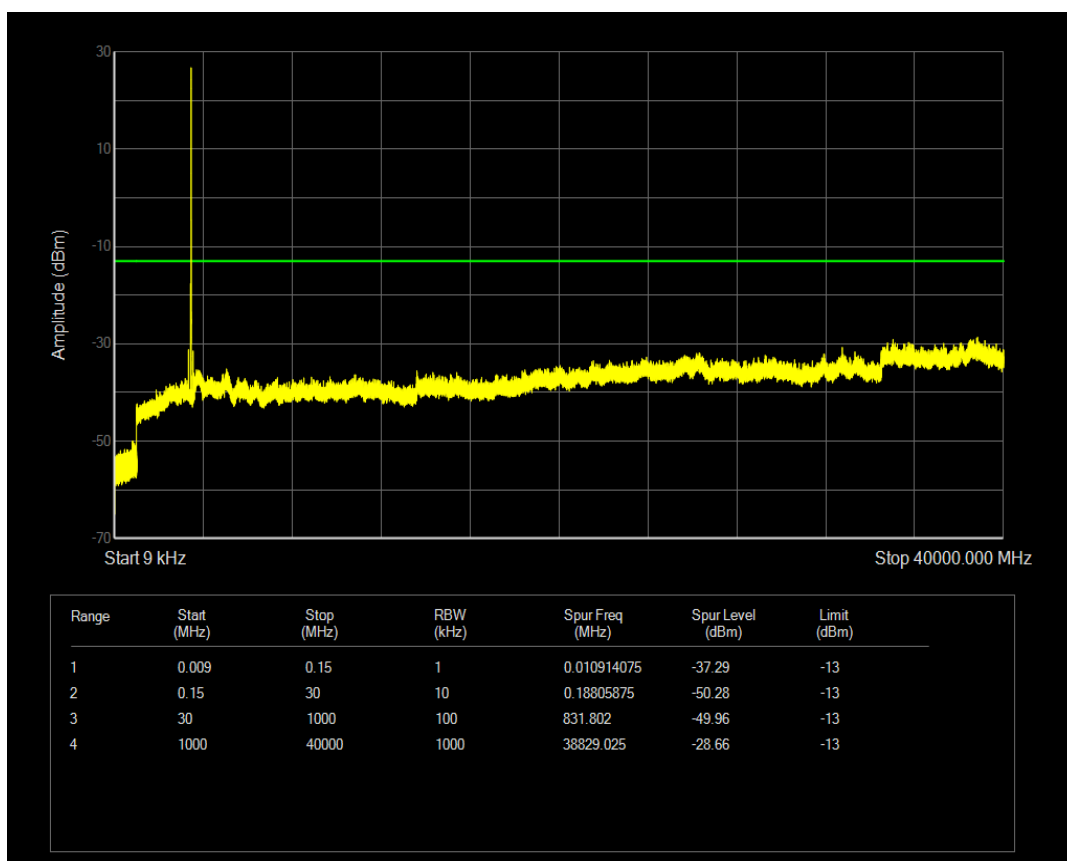
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=630334 RB=50@0



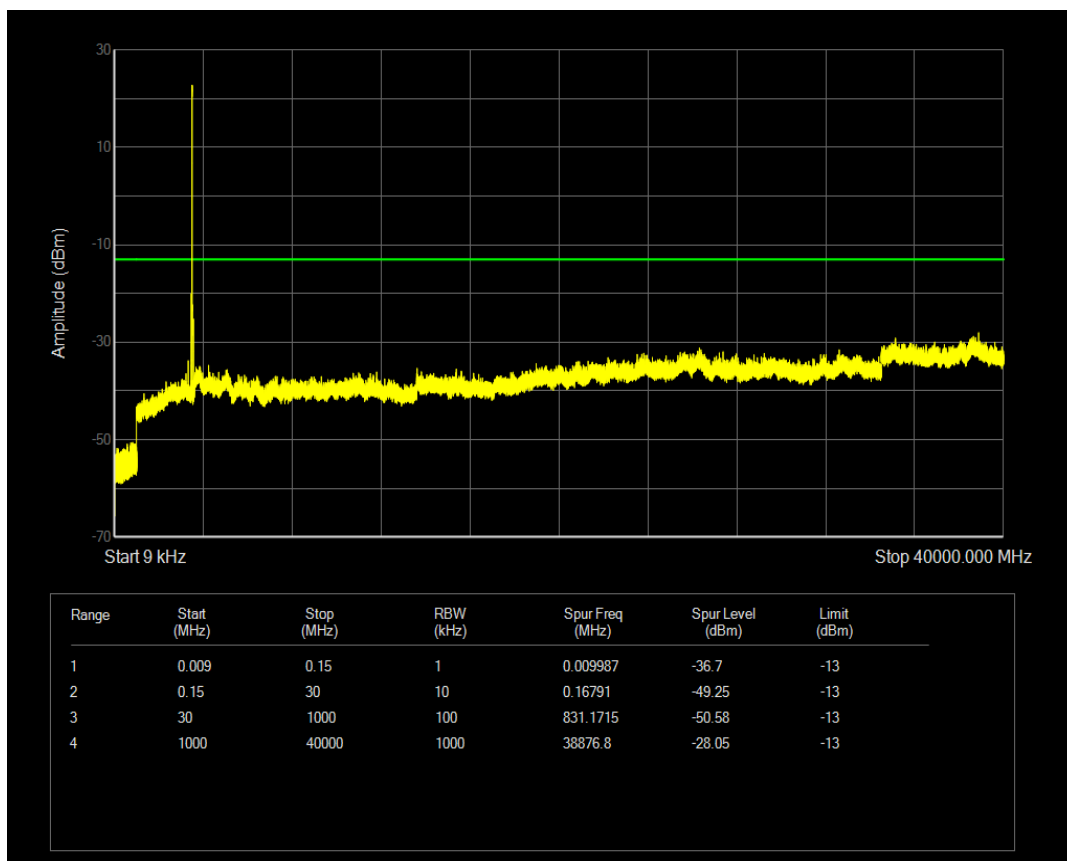
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=630334 RB=1@0



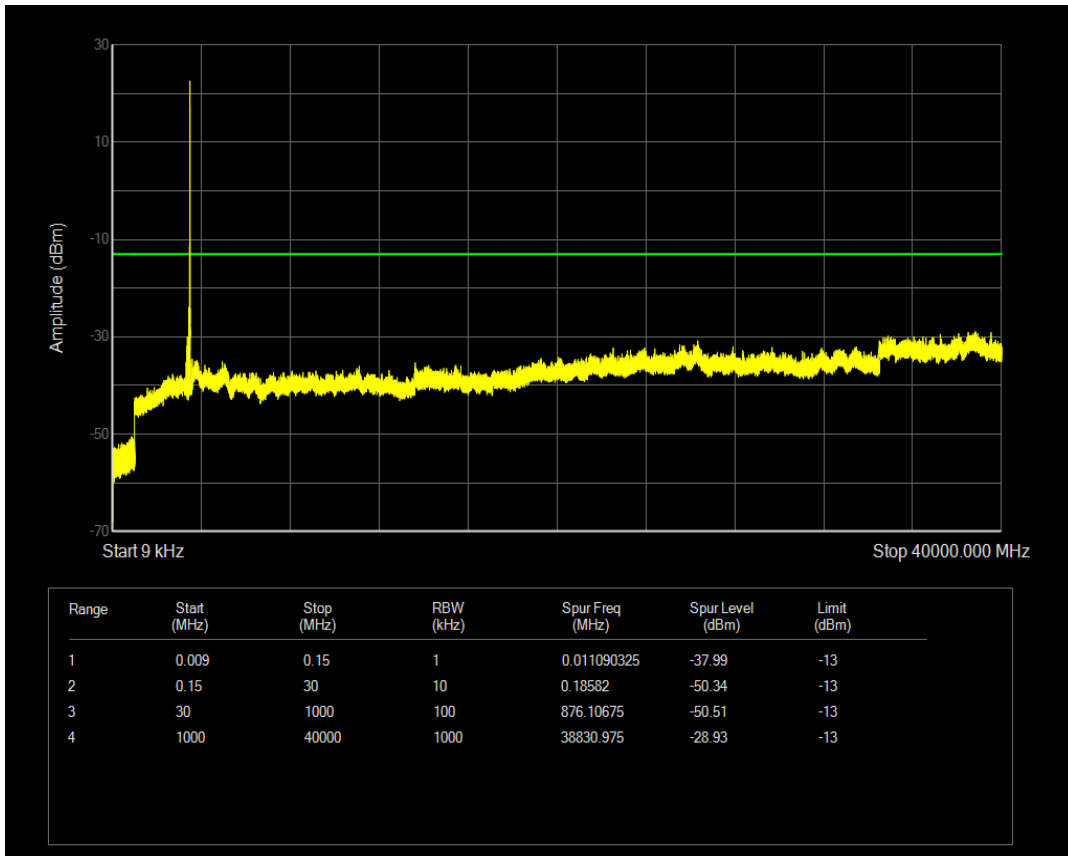
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=630334 RB=1@51



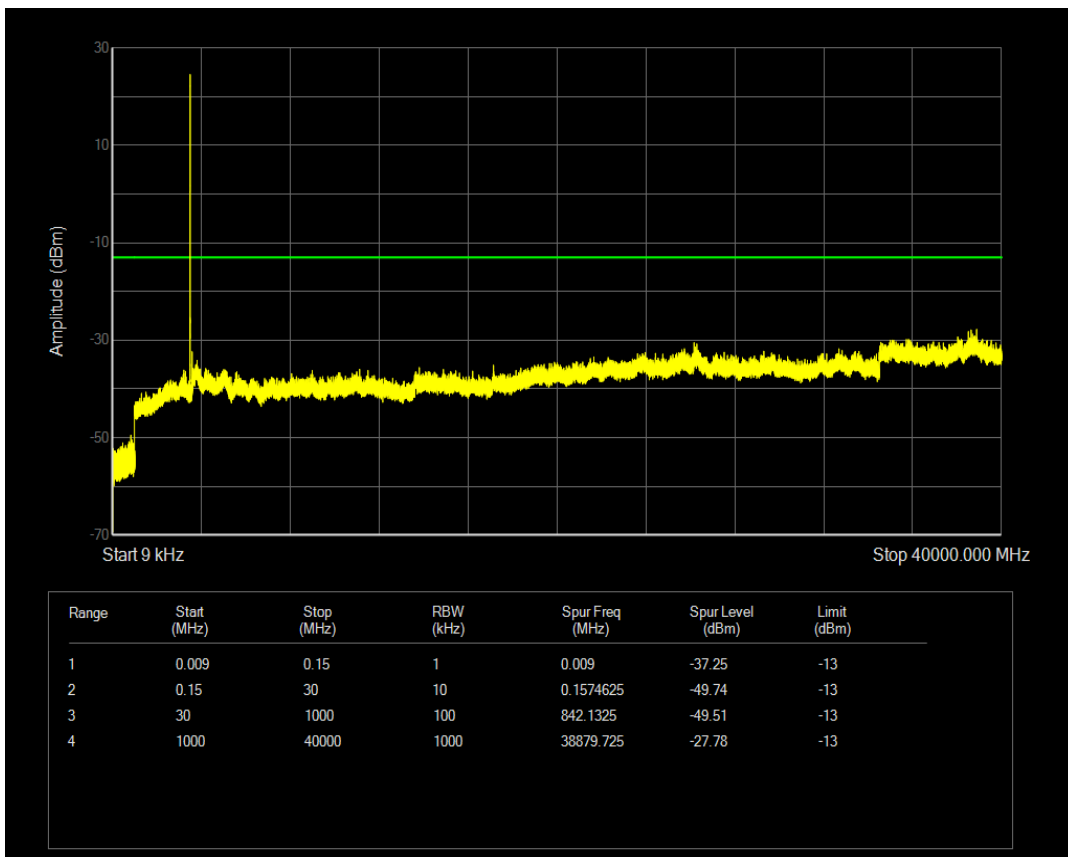
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=633334 RB=50@0



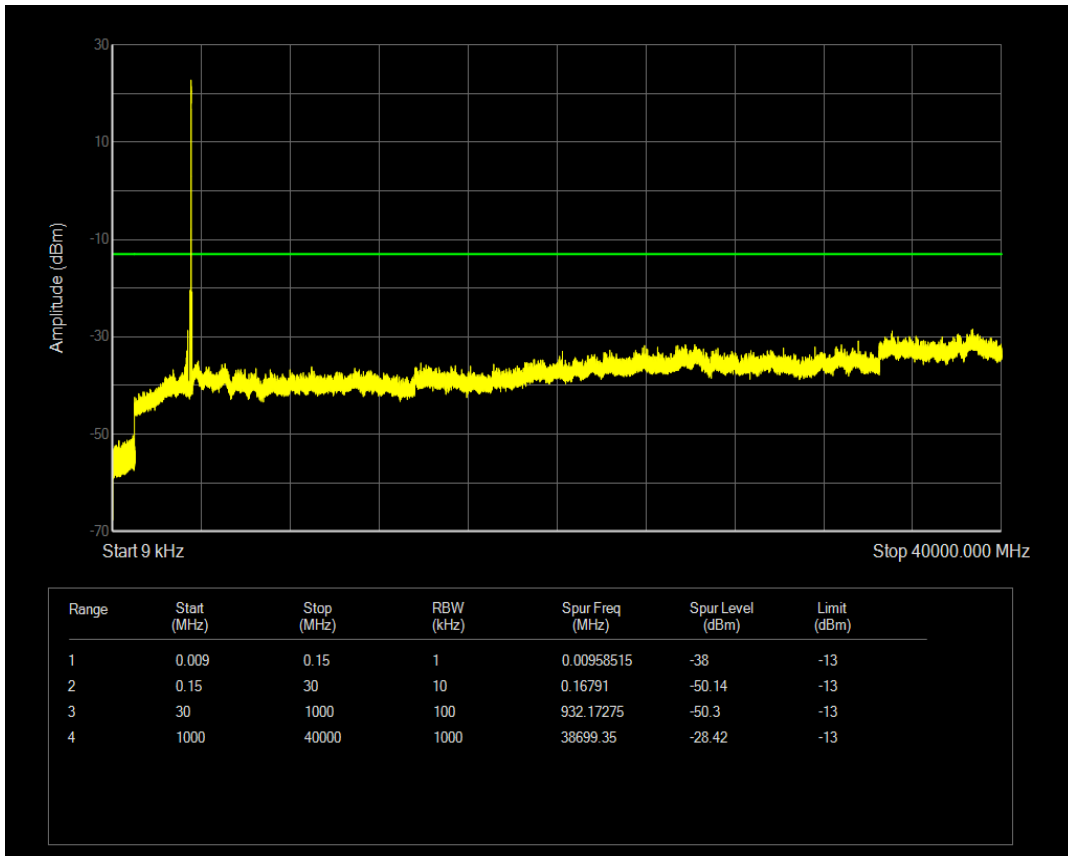
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=633334 RB=1@0



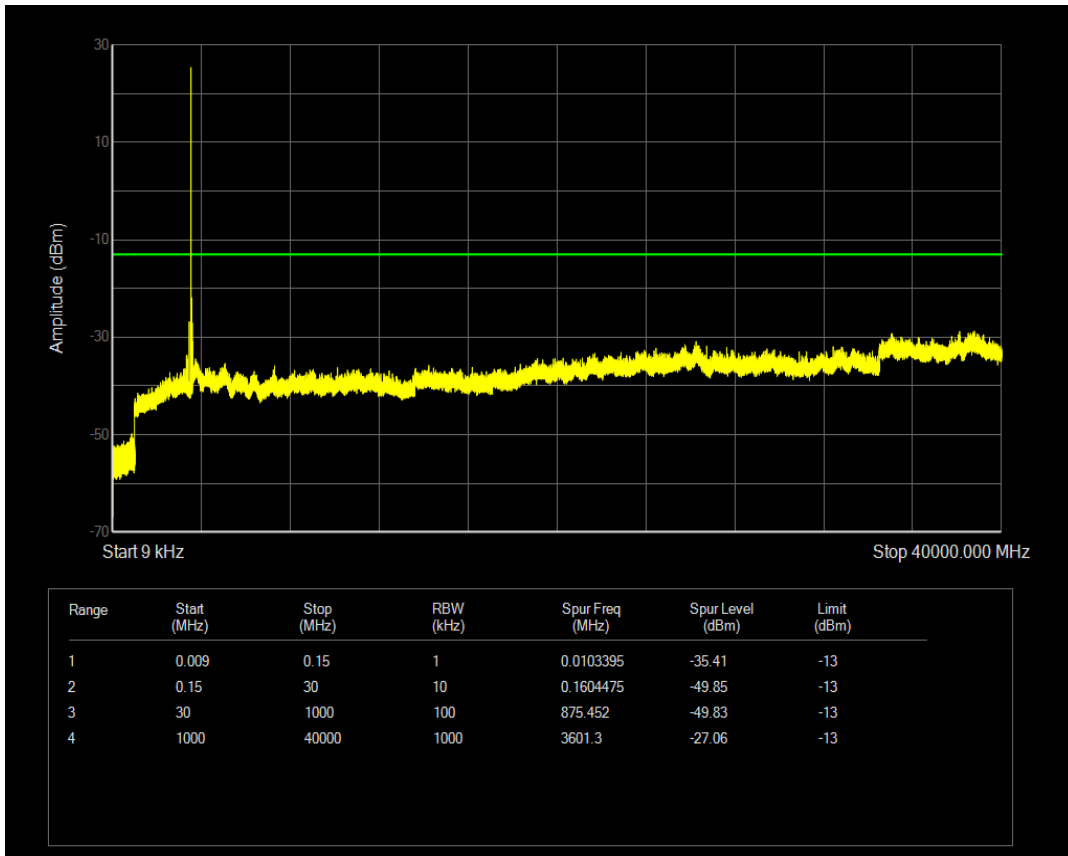
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=633334 RB=1@51



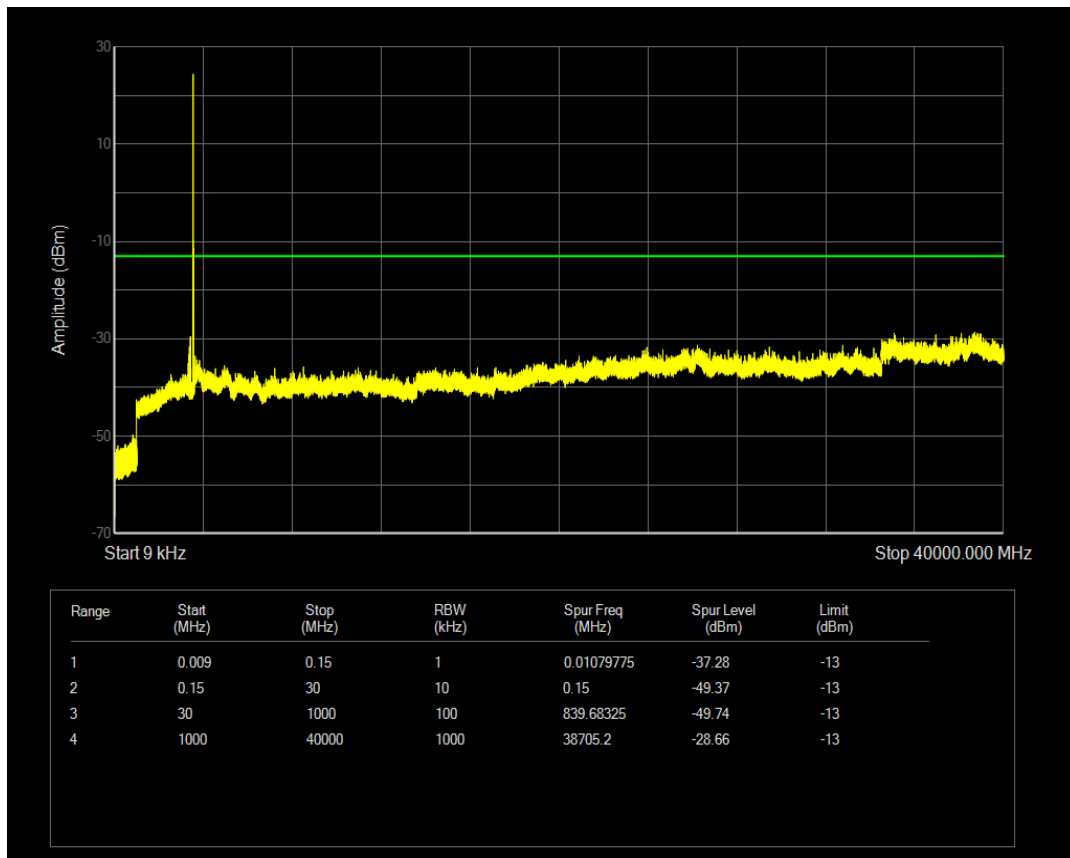
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=636332 RB=50@0



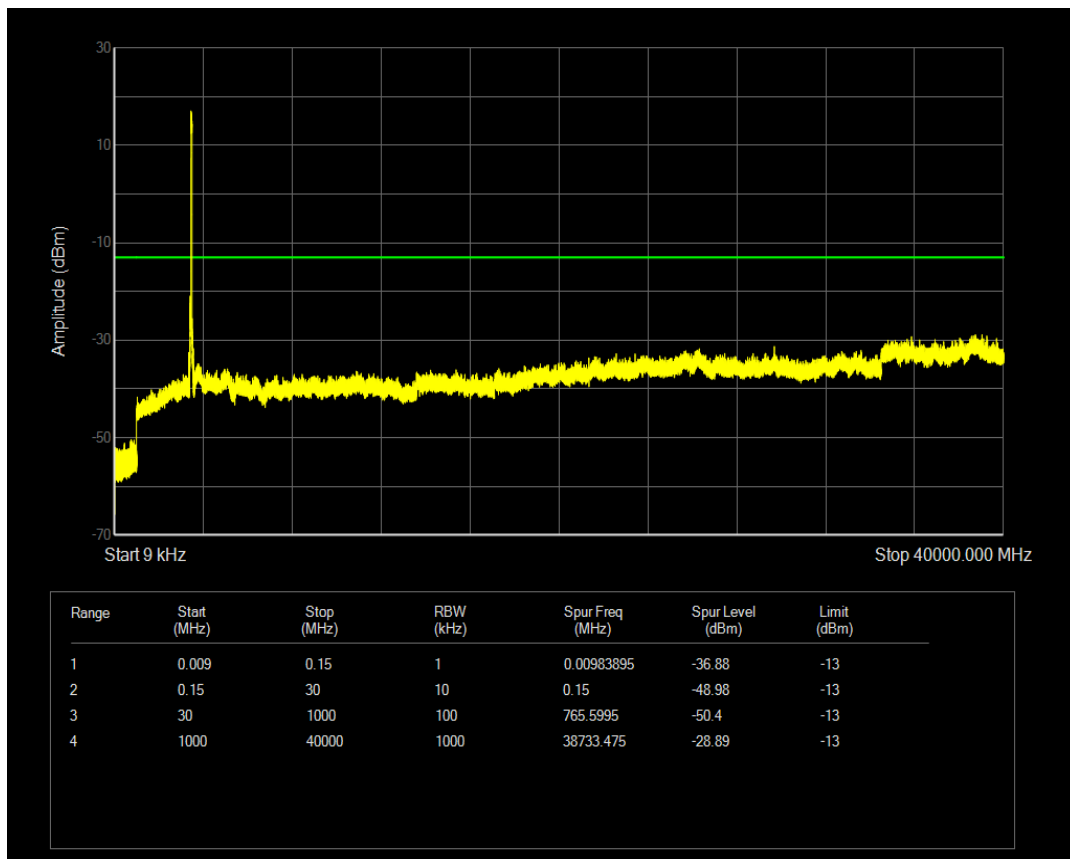
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=636332 RB=1@0



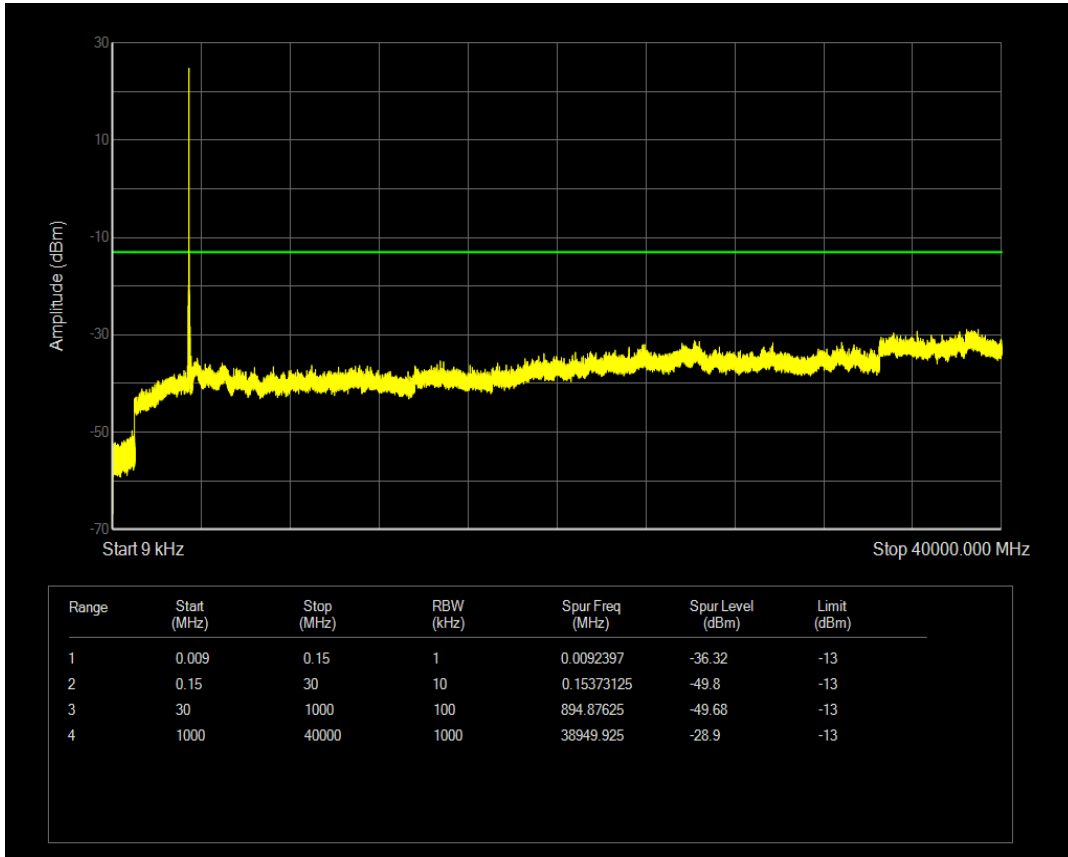
n77(3450-3550) SCS=15kHz DFT_QPSK BW=10MHz Channel=636332 RB=1@51



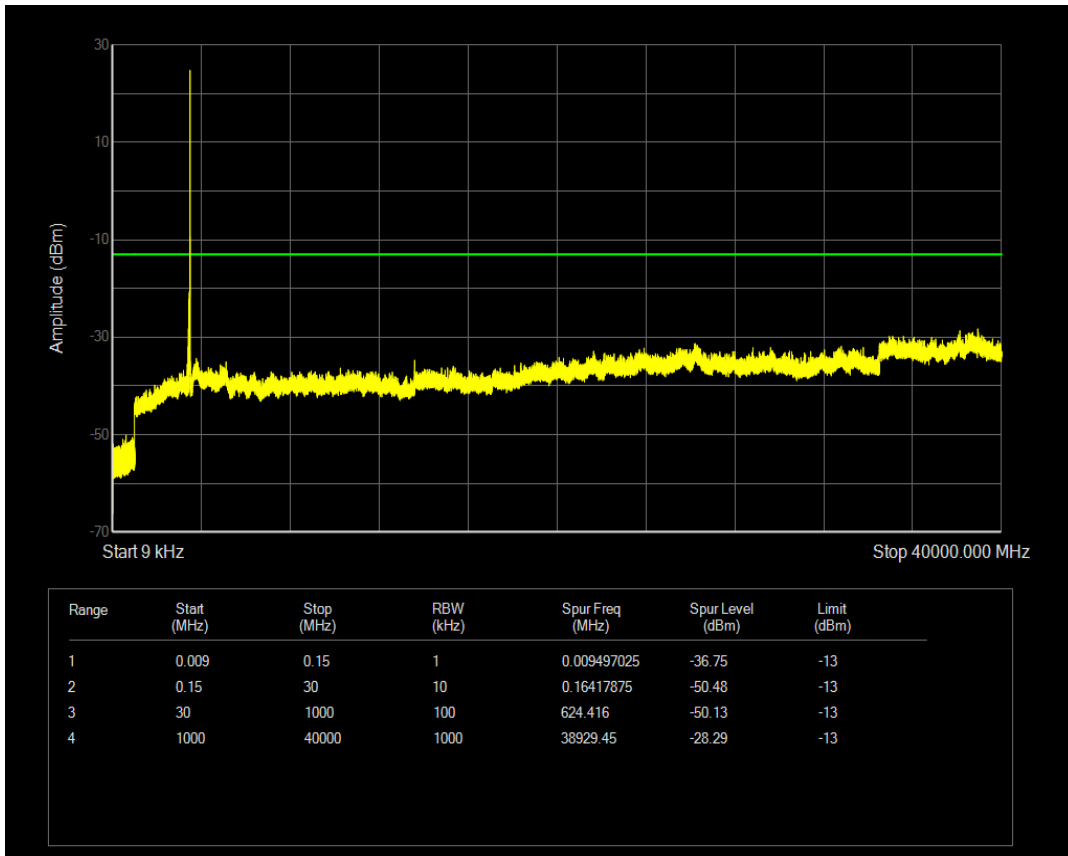
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=631668 RB=270@0



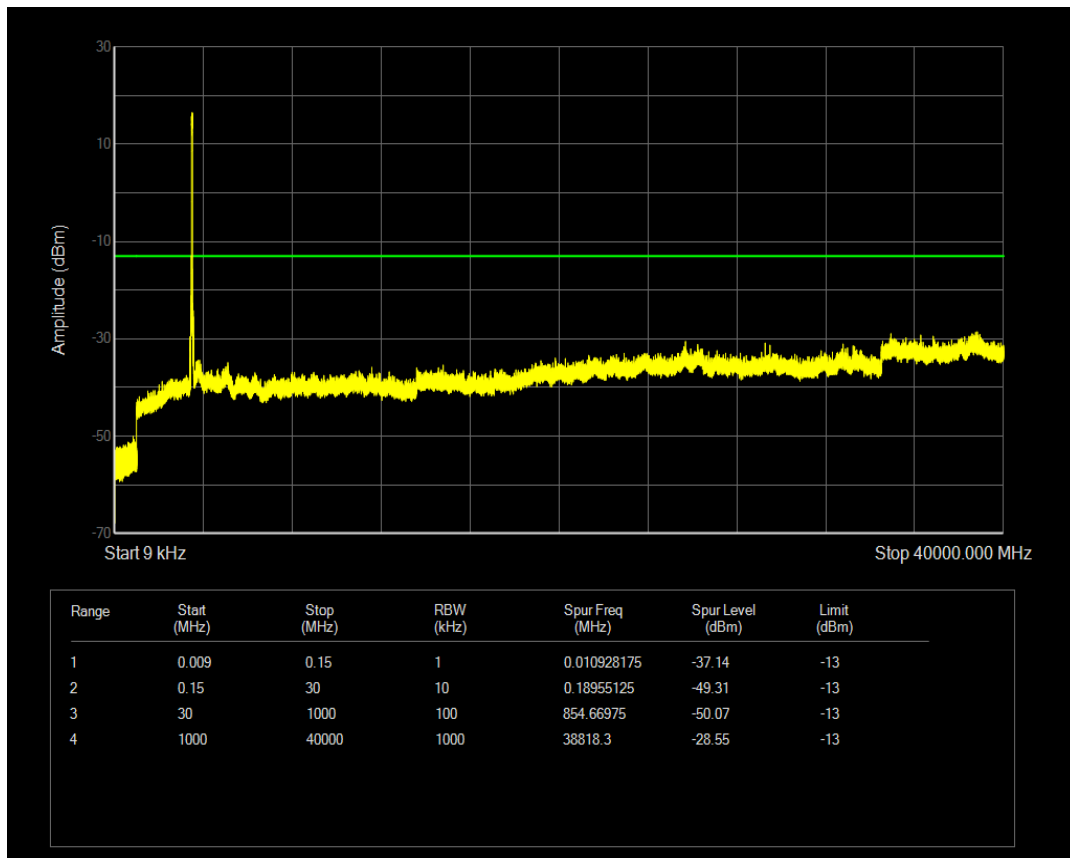
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=631668 RB=1@0



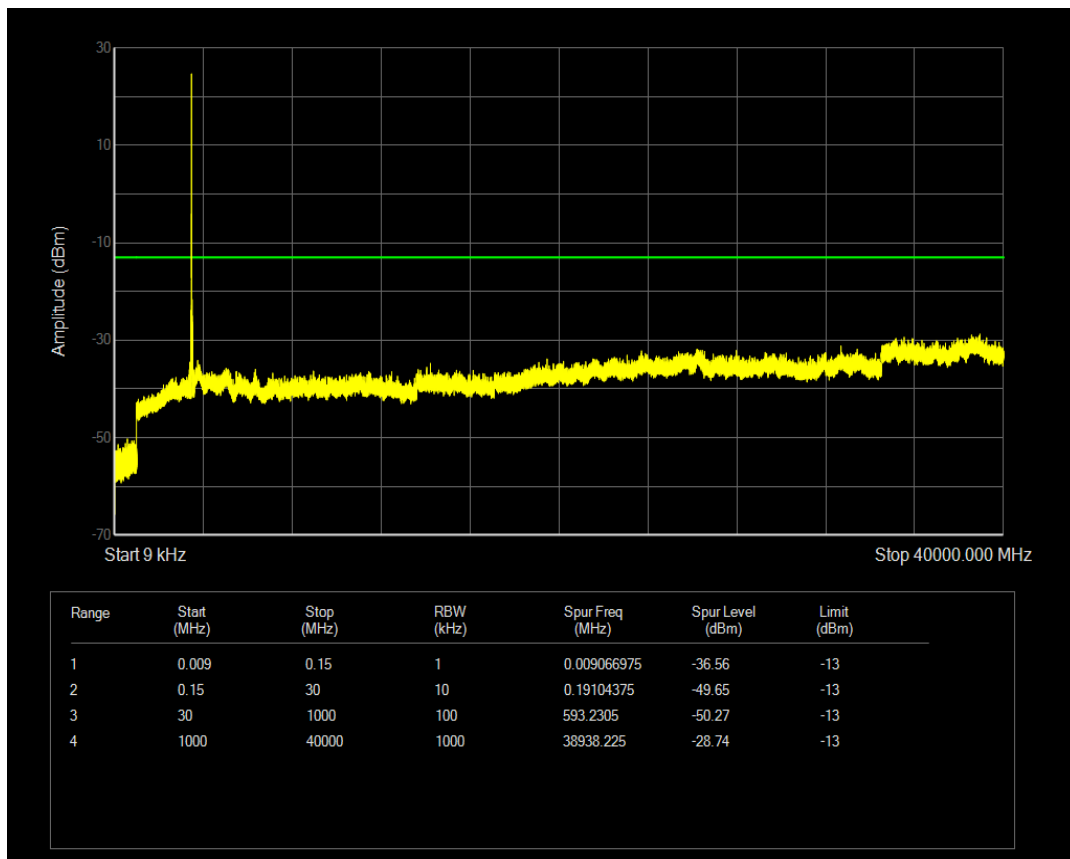
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=631668 RB=1@269



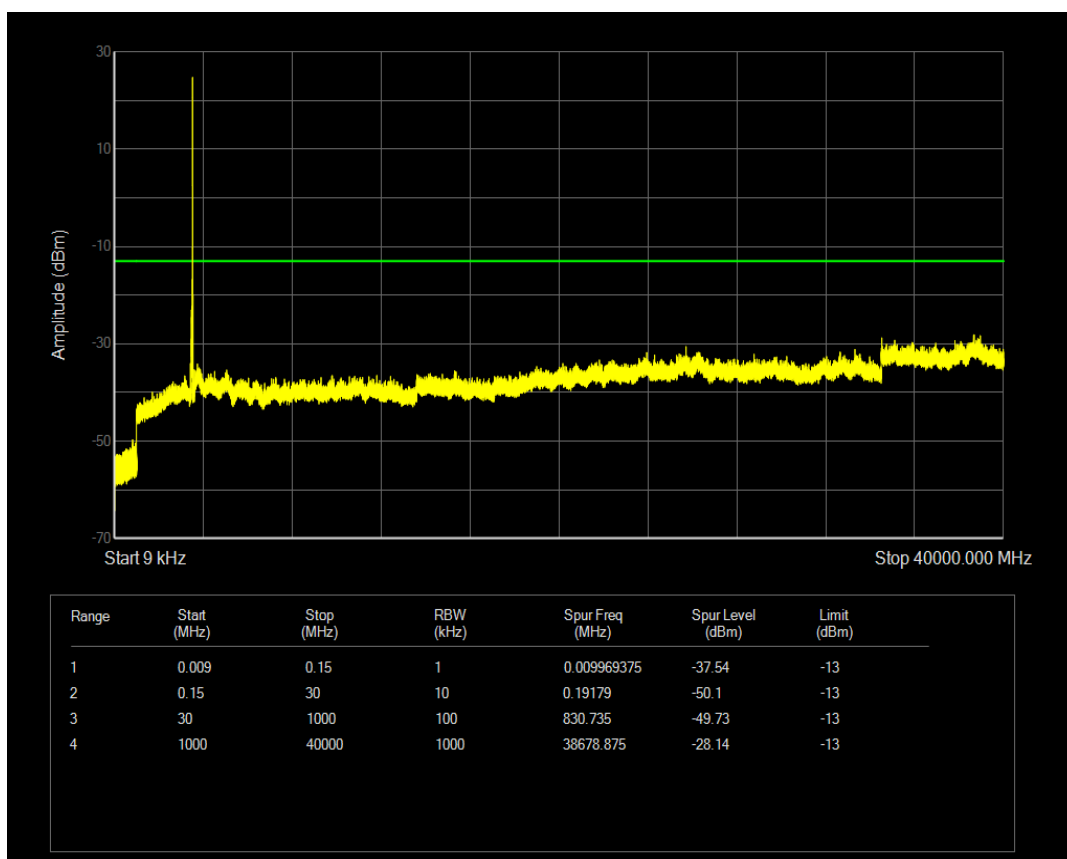
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=633334 RB=270@0



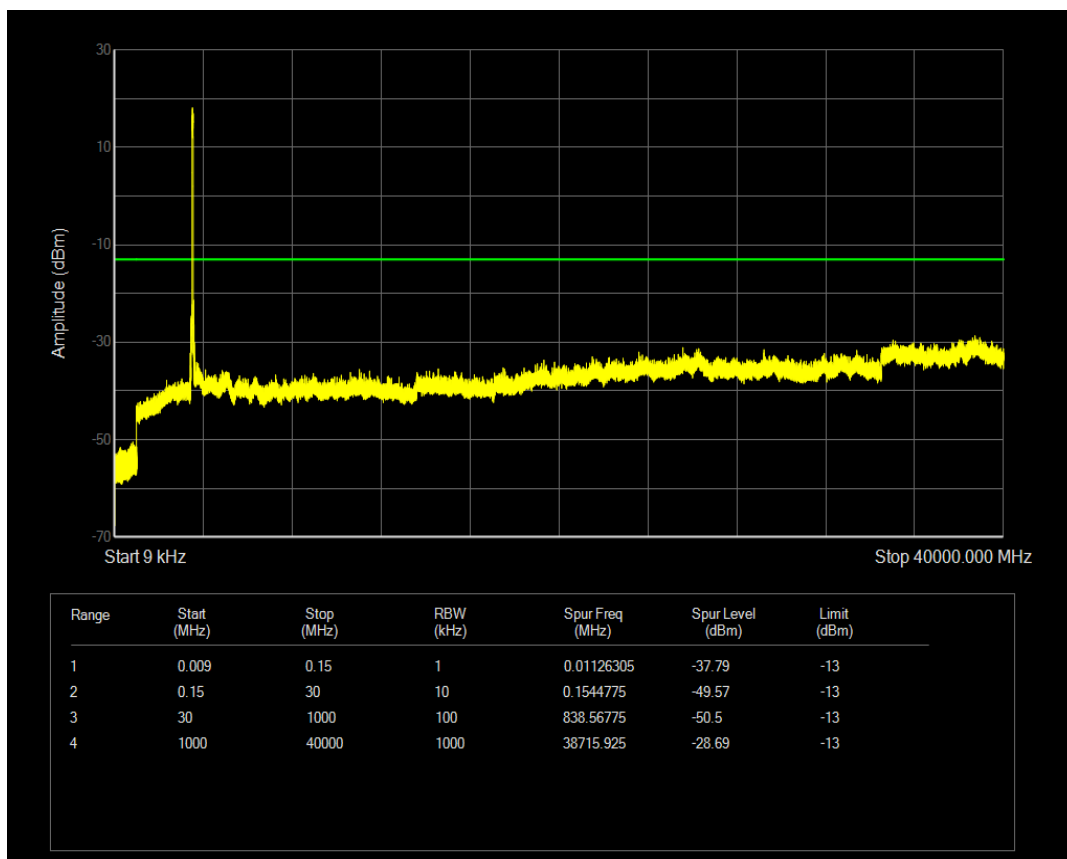
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=633334 RB=1@0



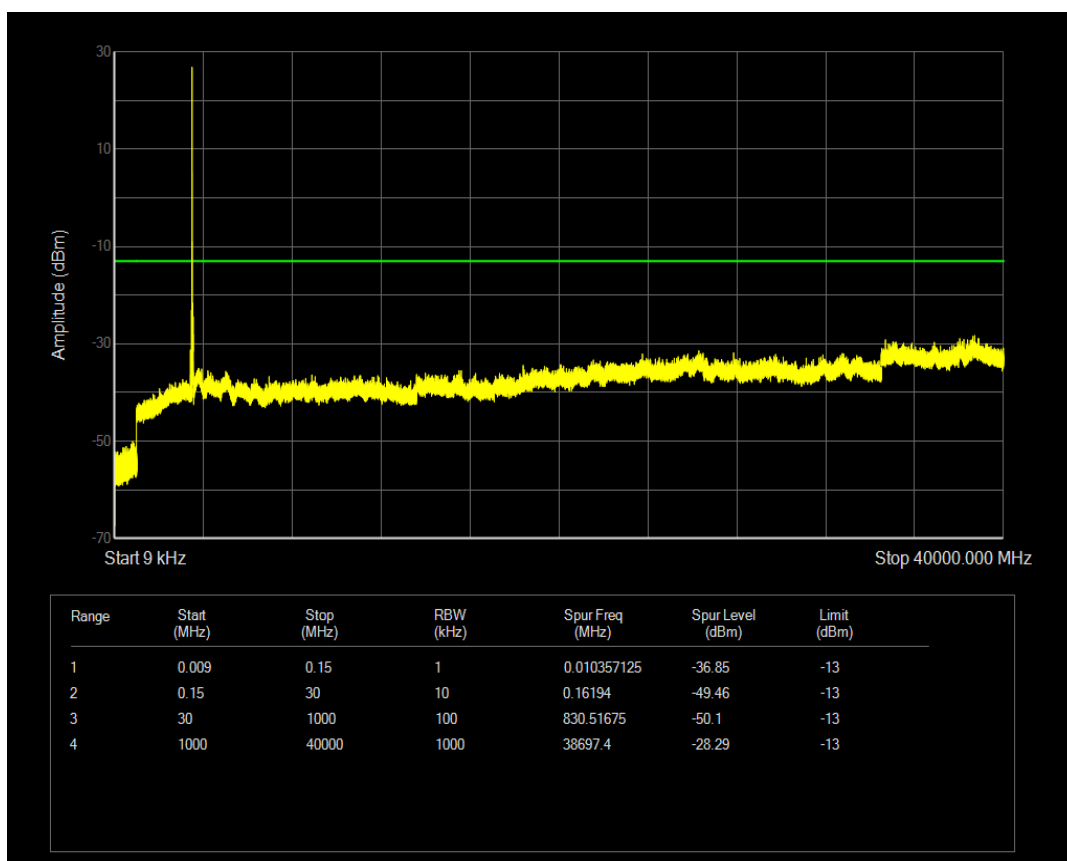
n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=633334 RB=1@269



n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=635000 RB=270@0



n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=635000 RB=1@0



n77(3450-3550) SCS=15kHz DFT_QPSK BW=50MHz Channel=635000 RB=1@269

