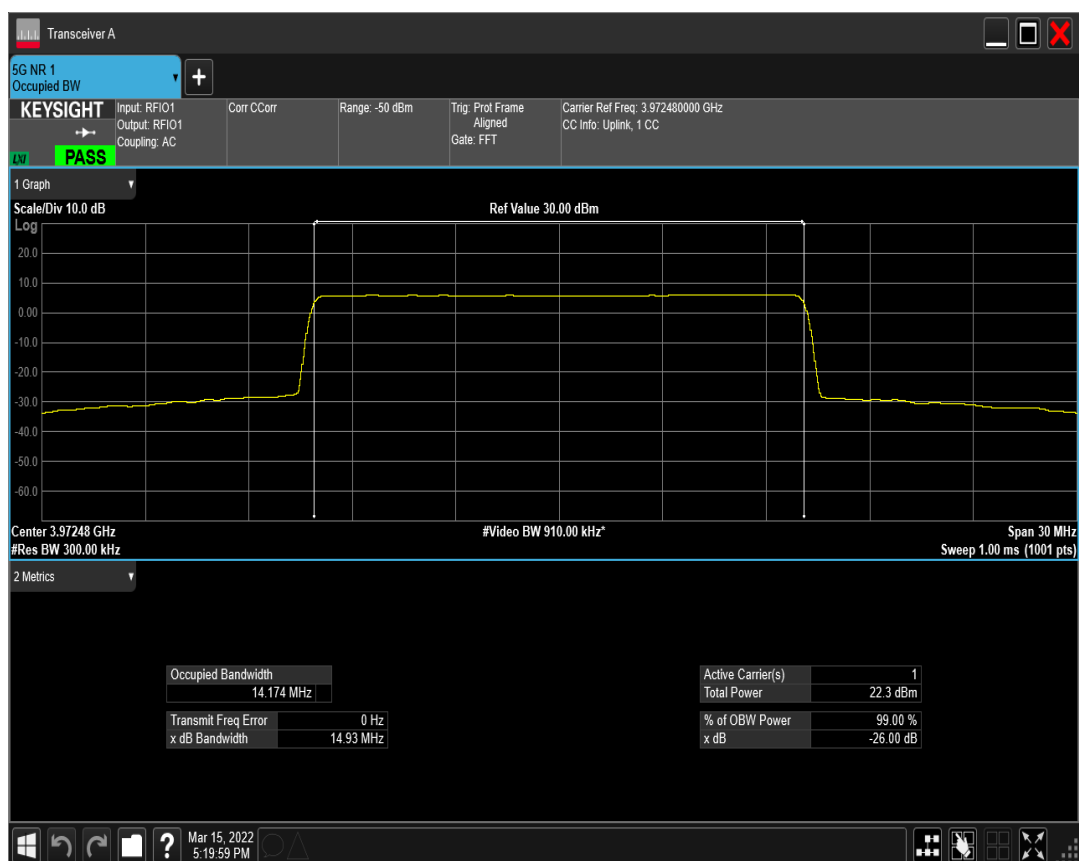
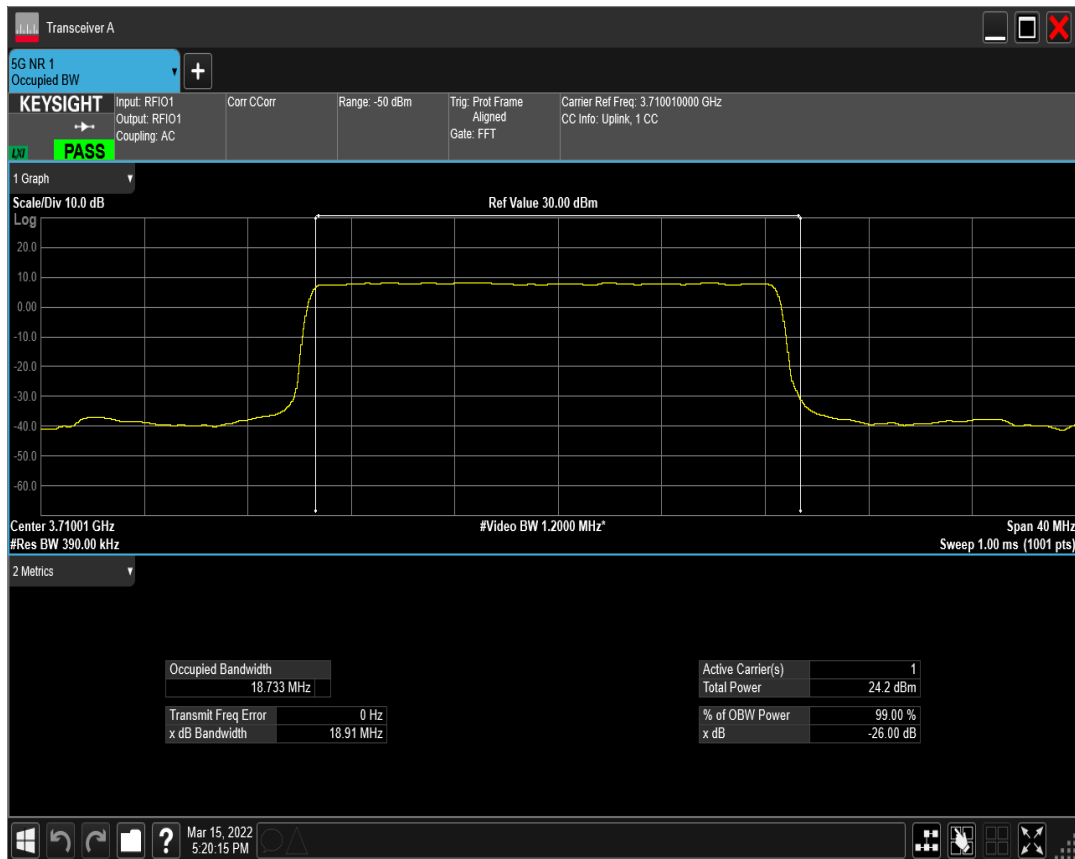


n77(3700-3980) SCS=15kHz CP_QPSK BW=15MHz Channel=664832 RB=79@0



n77(3700-3980) SCS=15kHz DFT_BPSK BW=20MHz Channel=647334 RB=100@0



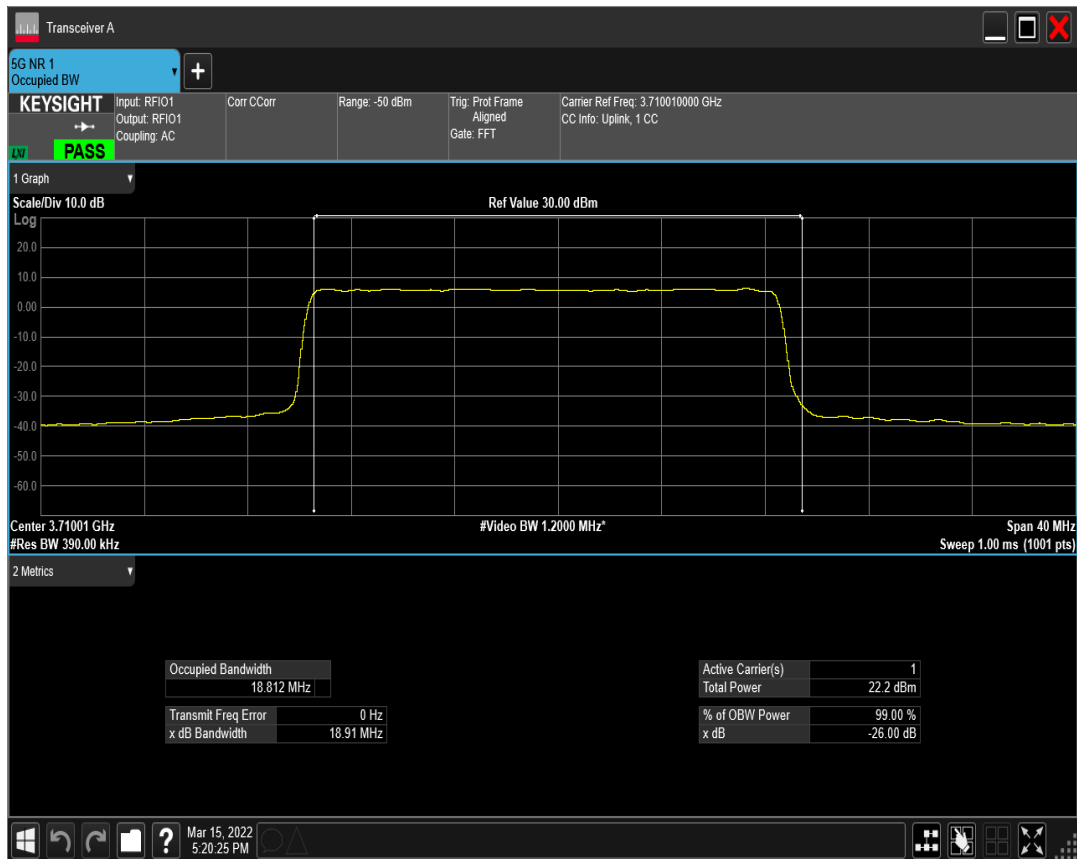
n77(3700-3980) SCS=15kHz DFT_QPSK BW=20MHz Channel=647334 RB=100@0



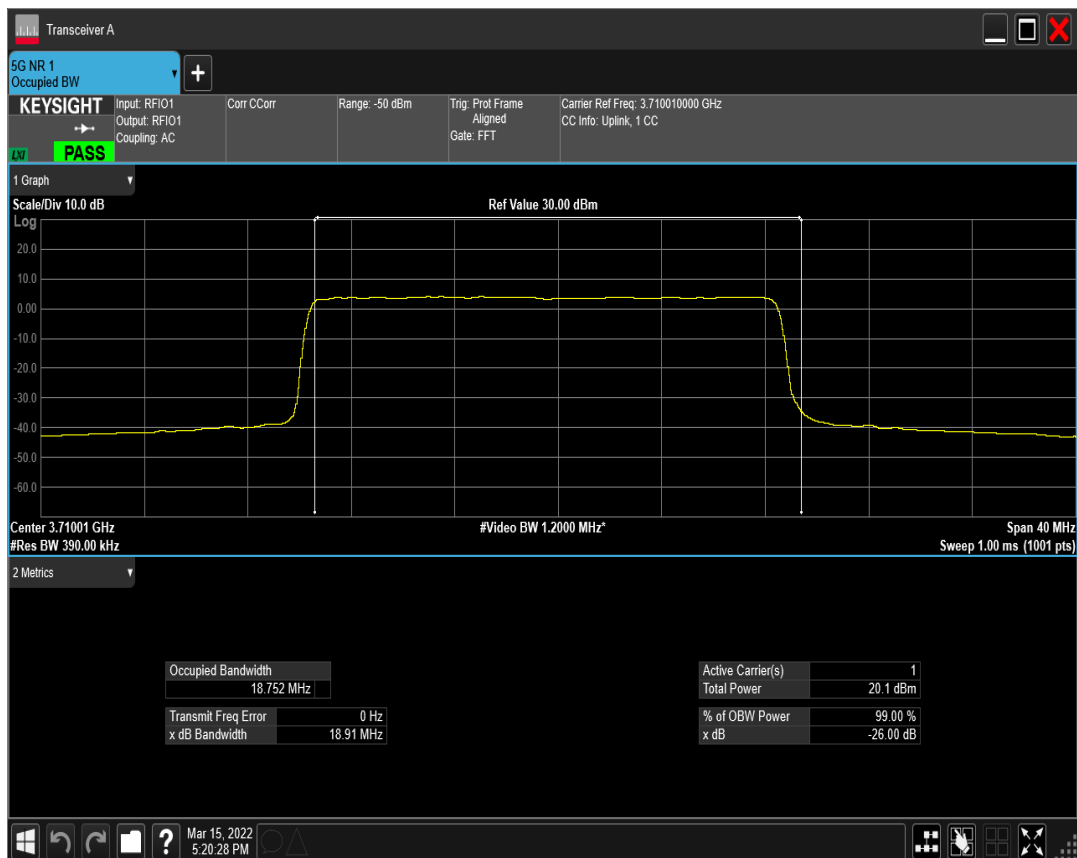
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=20MHz Channel=647334 RB=100@0



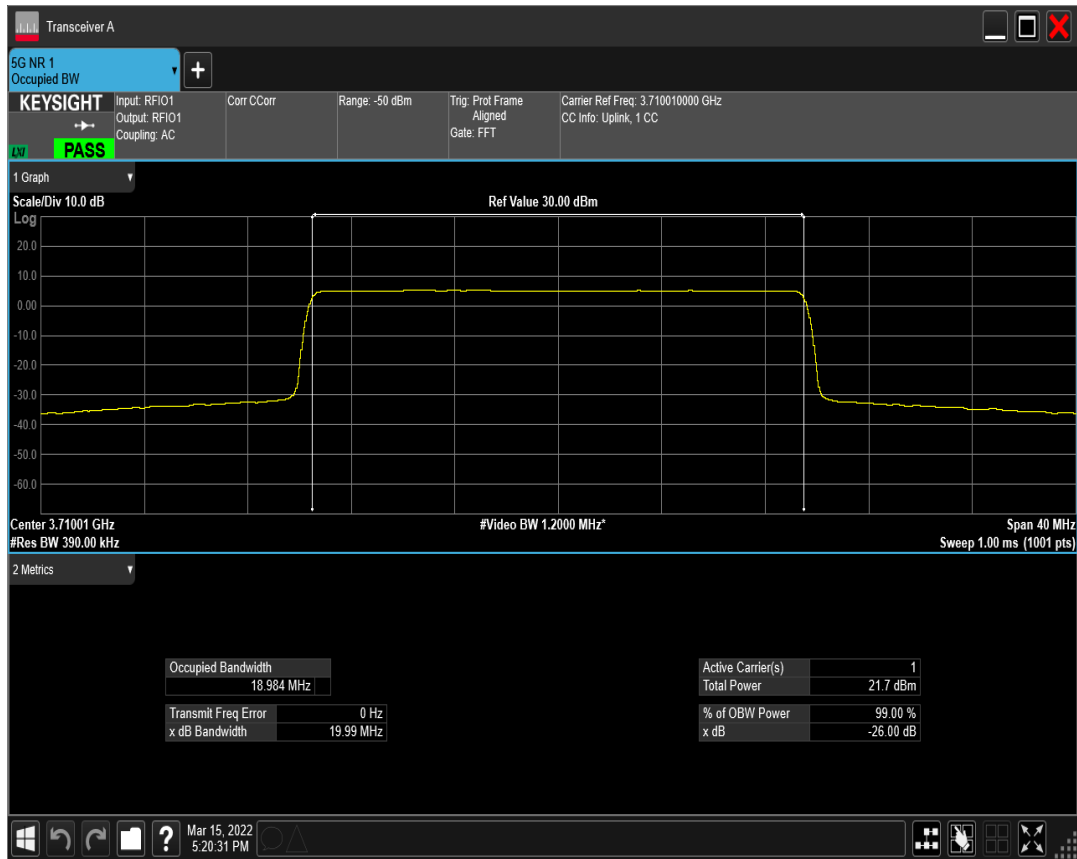
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=20MHz Channel=647334 RB=100@0



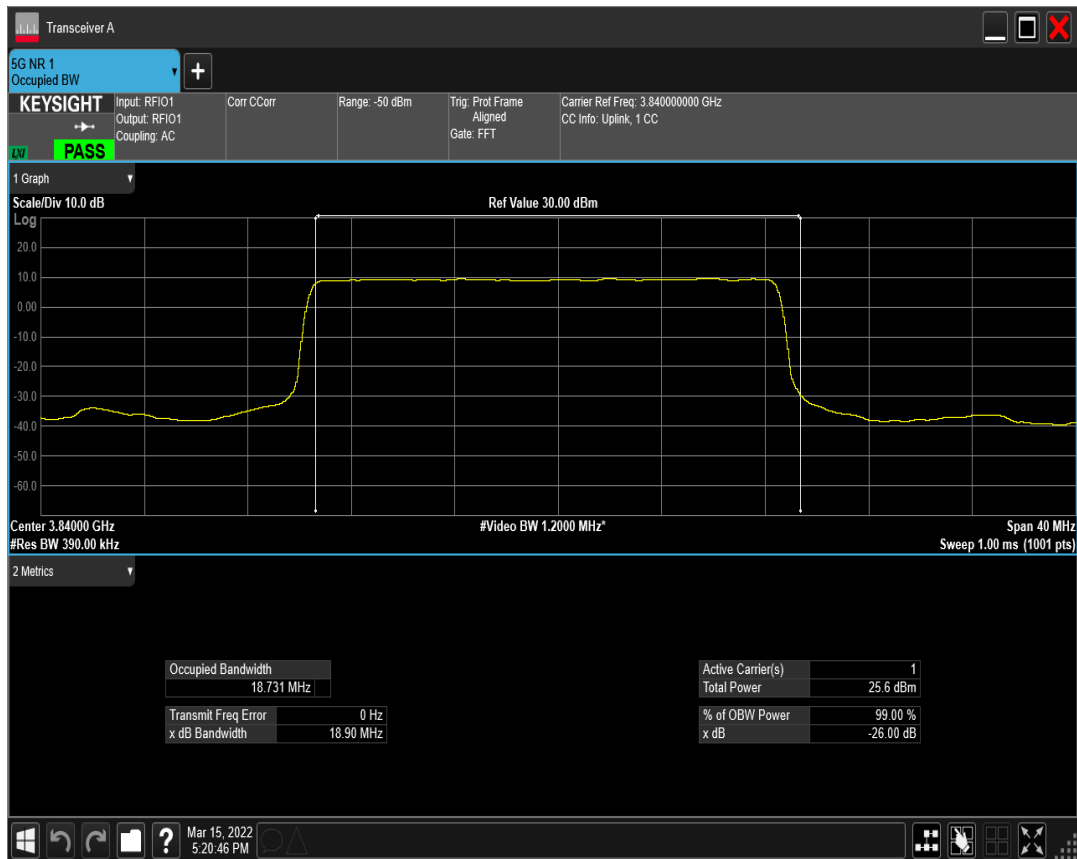
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=20MHz Channel=647334 RB=100@0



n77(3700-3980) SCS=15kHz CP_QPSK BW=20MHz Channel=647334 RB=106@0



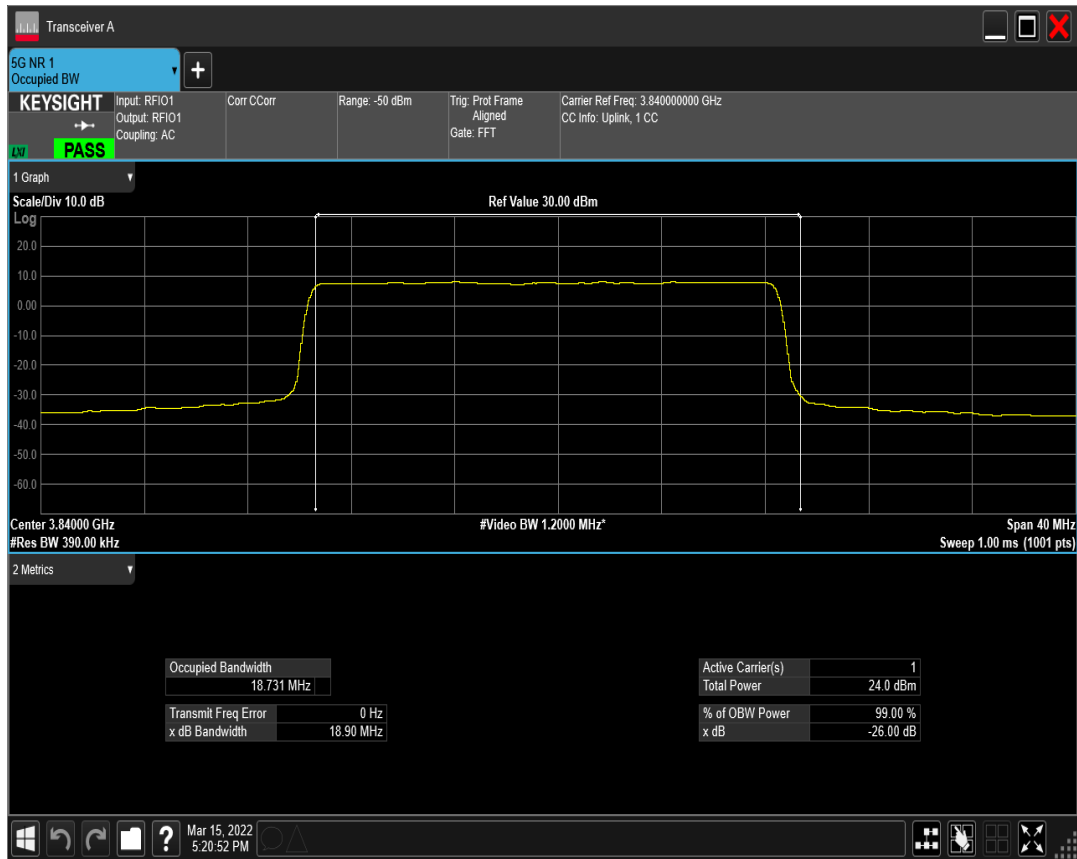
n77(3700-3980) SCS=15kHz DFT_BPSK BW=20MHz Channel=656000 RB=100@0



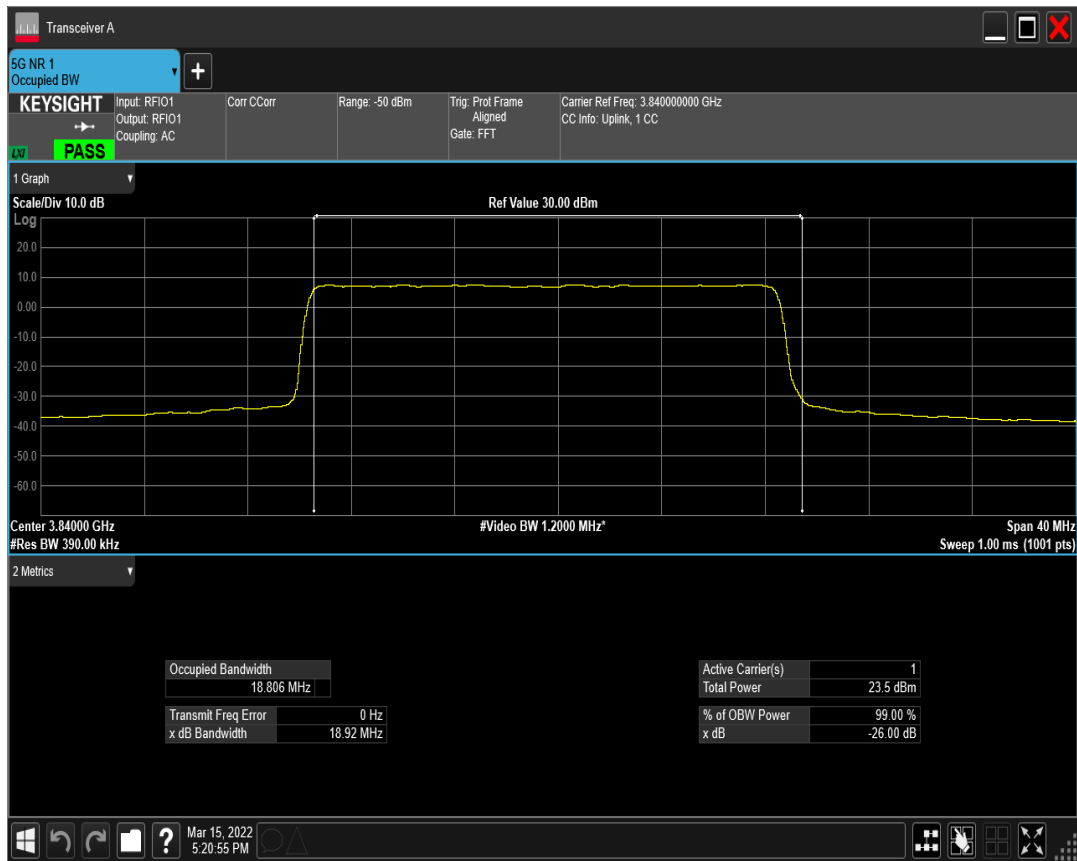
n77(3700-3980) SCS=15kHz DFT_QPSK BW=20MHz Channel=656000 RB=100@0



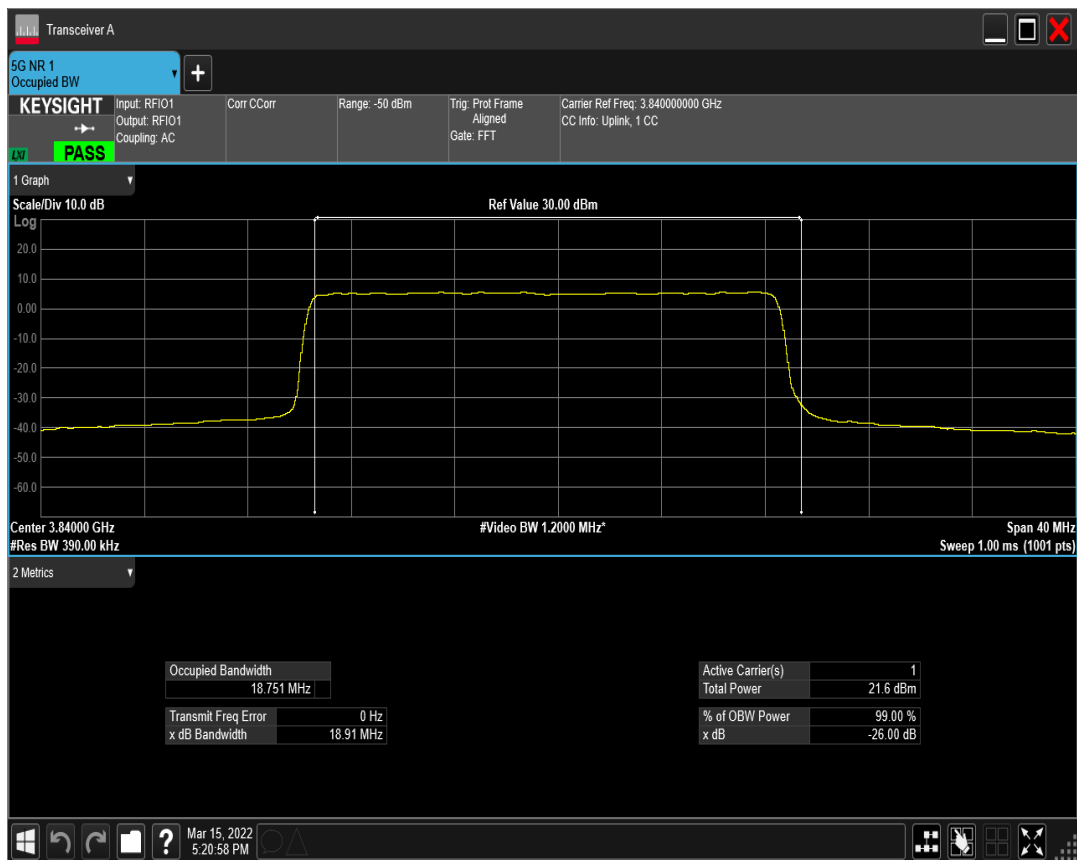
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=20MHz Channel=656000 RB=100@0



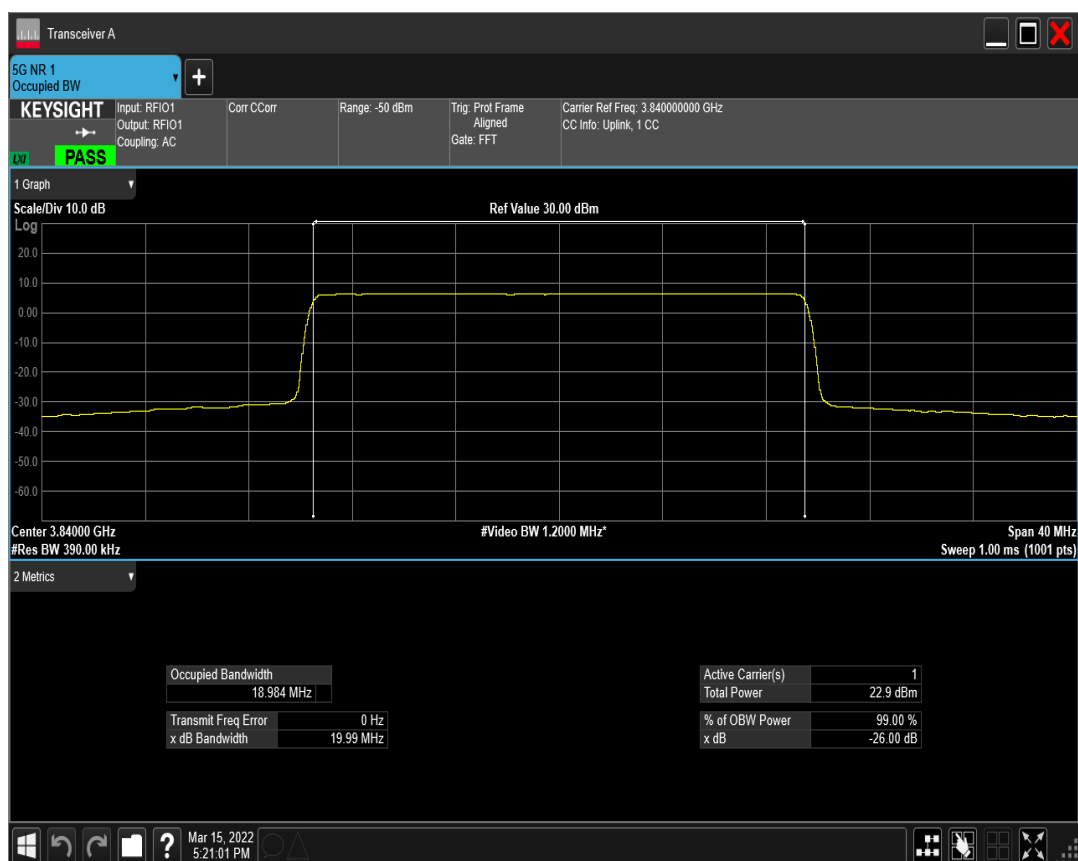
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=20MHz Channel=656000 RB=100@0



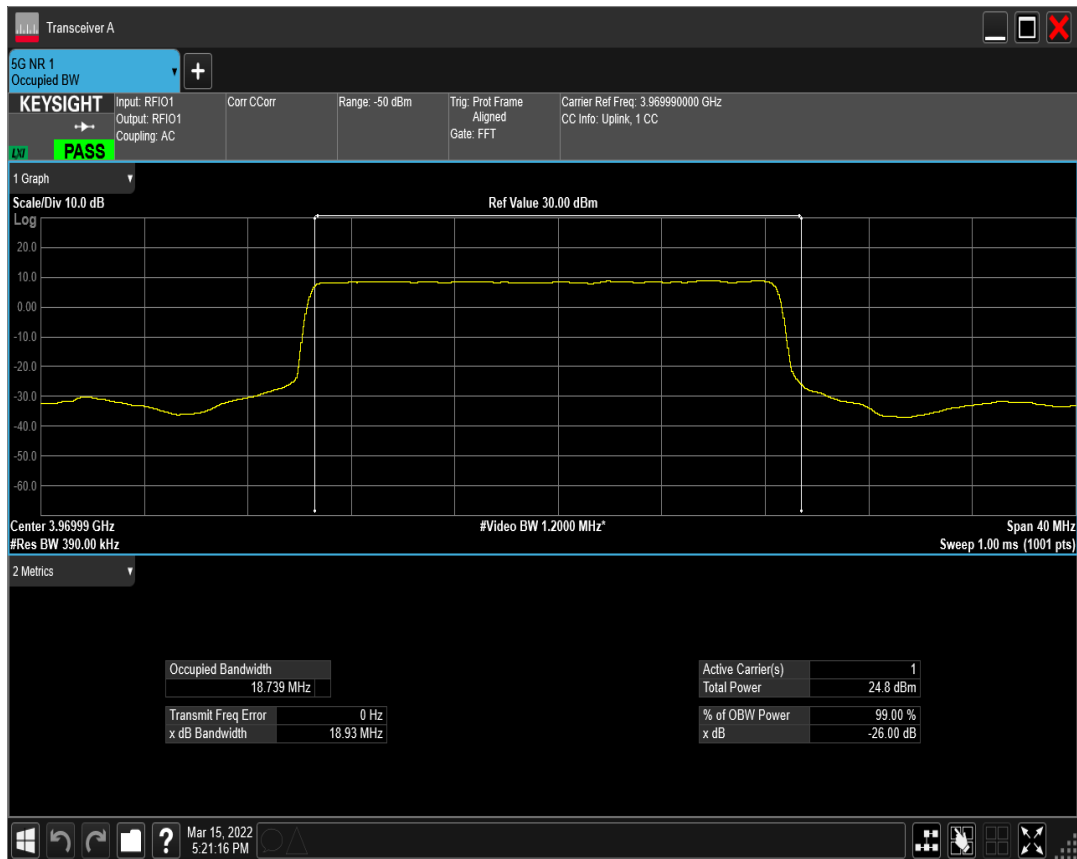
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=20MHz Channel=656000 RB=100@0



n77(3700-3980) SCS=15kHz CP_QPSK BW=20MHz Channel=656000 RB=106@0



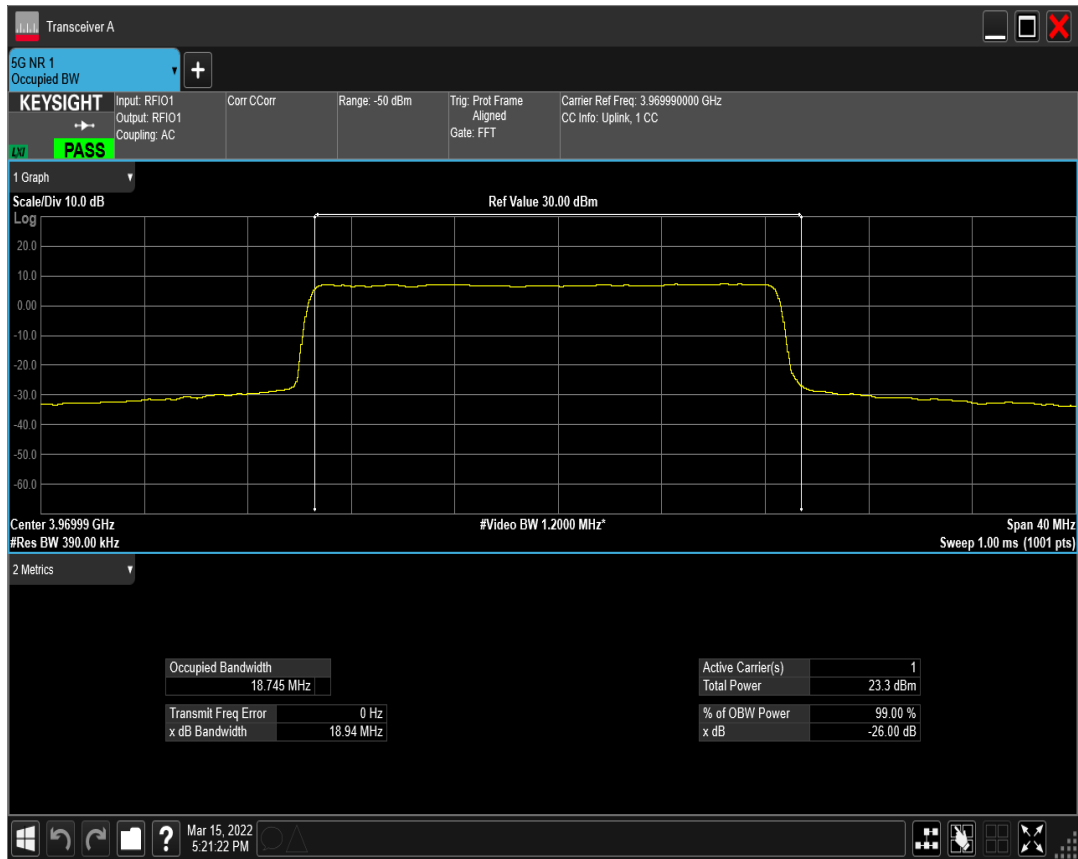
n77(3700-3980) SCS=15kHz DFT_BPSK BW=20MHz Channel=664666 RB=100@0



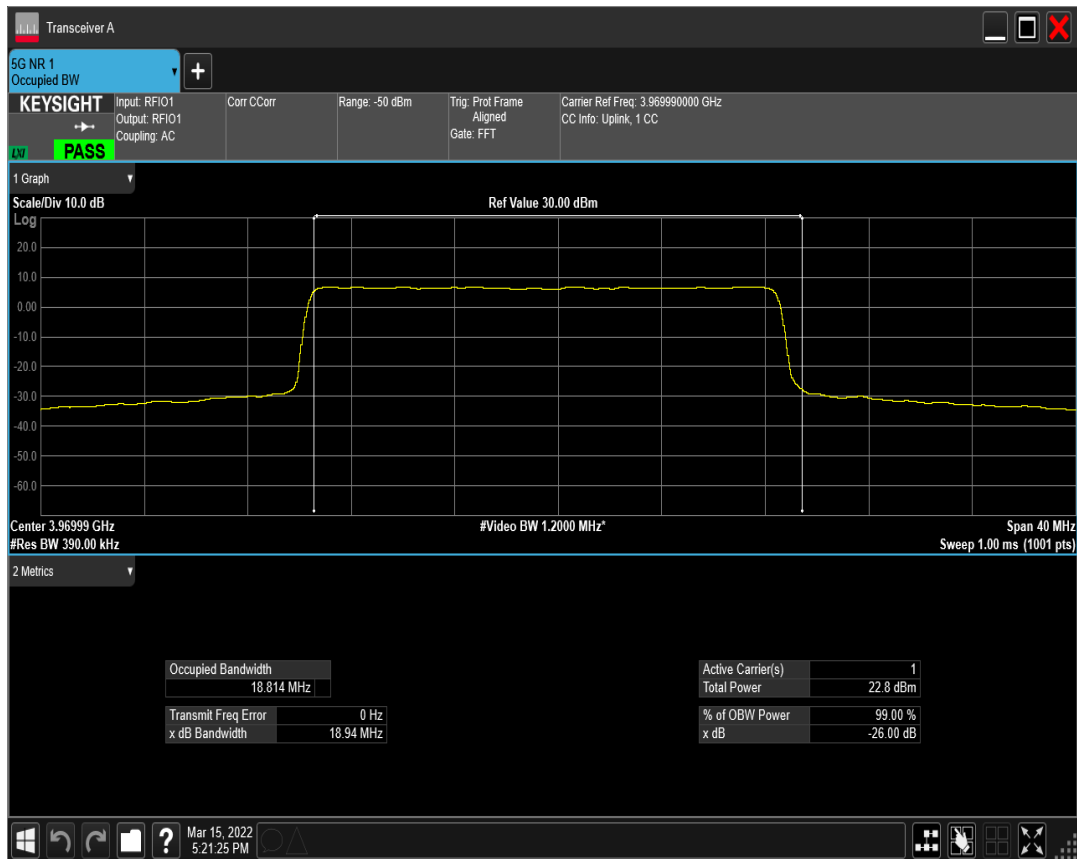
n77(3700-3980) SCS=15kHz DFT_QPSK BW=20MHz Channel=664666 RB=100@0



n77(3700-3980) SCS=15kHz DFT_QAM16 BW=20MHz Channel=664666 RB=100@0



n77(3700-3980) SCS=15kHz DFT_QAM64 BW=20MHz Channel=664666 RB=100@0



n77(3700-3980) SCS=15kHz DFT_QAM256 BW=20MHz Channel=664666 RB=100@0



Transceiver A

5G NR 1
Occupied BW

KEYSIGHT

Input: RFIO1
Output: RFIO1
Coupling: AC

Corr CCorr

Range: -50 dBm

Trig: Prot Frame
Aligned
Gate: FFT

Carrier Ref Freq: 3.96990000 GHz
CC Info: Uplink, 1 CC

1 Graph

Scale/Div 10.0 dB

Log

Ref Value 30.00 dBm

Center 3.96999 GHz
#Res BW 390.00 kHz

#Video BW 1.2000 MHz

Span 40 MHz
Sweep 1.00 ms (1001 pts)

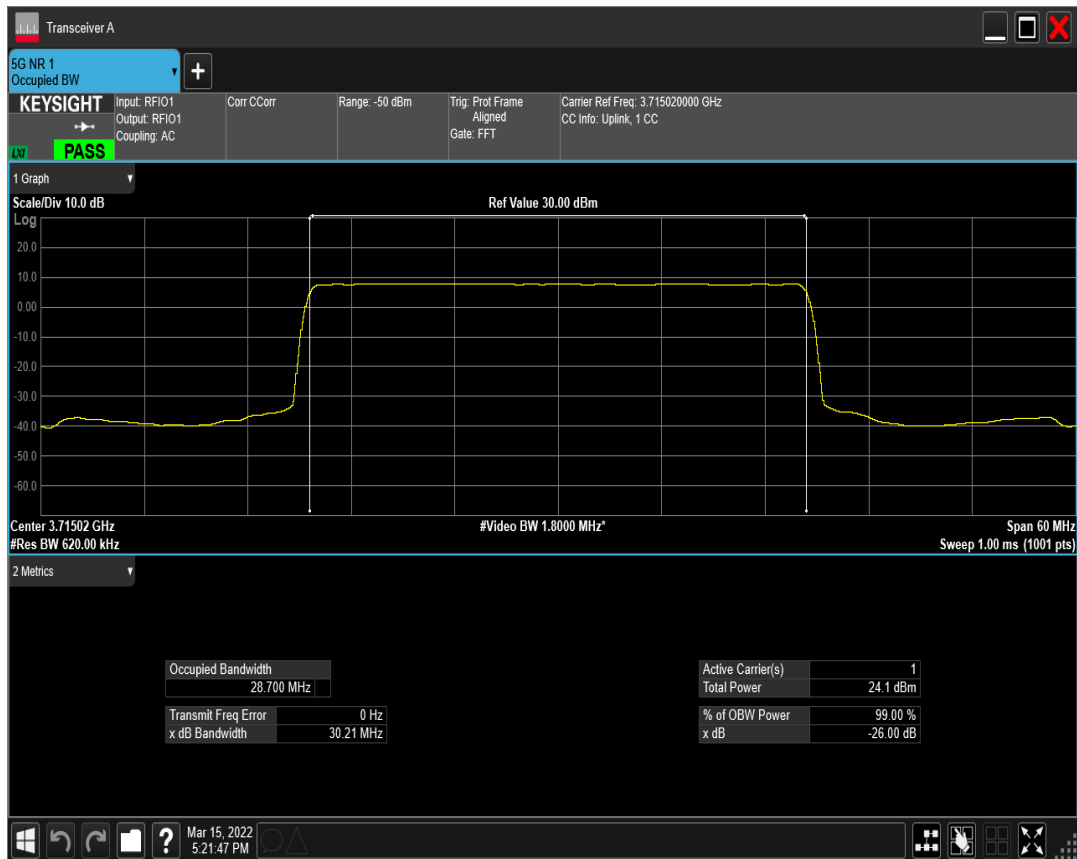
2 Metrics

Occupied Bandwidth	18.991 MHz
Transmit Freq Error	0 Hz
x dB Bandwidth	20.00 MHz

Active Carrier(s)	1
Total Power	22.2 dBm
% of OBW Power	99.00 %
x dB	-26.00 dB

Mar 15, 2022
5:21:31 PM

n77(3700-3980) SCS=15kHz DFT BPSK BW=30MHz Channel=647668 RB=160@0



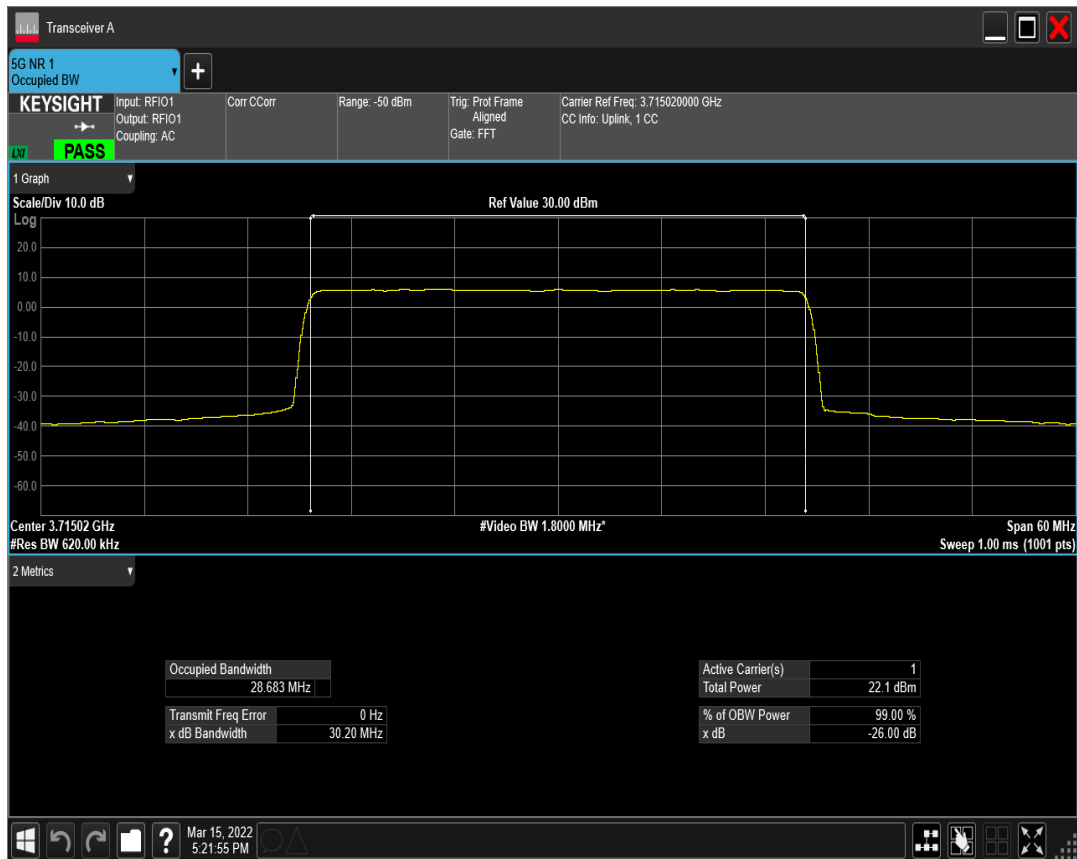
n77(3700-3980) SCS=15kHz DFT_QPSK BW=30MHz Channel=647668 RB=160@0



n77(3700-3980) SCS=15kHz DFT_QAM16 BW=30MHz Channel=647668 RB=160@0



n77(3700-3980) SCS=15kHz DFT_QAM64 BW=30MHz Channel=647668 RB=160@0



n77(3700-3980) SCS=15kHz DFT_QAM256 BW=30MHz Channel=647668 RB=160@0



Transceiver A

5G NR 1
Occupied BW

KEYSIGHT

Input: RFIO1
Output: RFIO1
Coupling: AC

Corr CCorr

Range: -50 dBm

Trig: Prot Frame
Aligned
Gate: FFT

Carrier Ref Freq: 3.715020000 GHz
CC Info: Uplink, 1 CC

PASS

1 Graph

Scale/Div 10.0 dB

Log

Ref Value 30.00 dBm

Center 3.71502 GHz
#Res BW 620.00 kHz

#Video BW 1.8000 MHz*

Span 60 MHz
Sweep 1.00 ms (1001 pts)

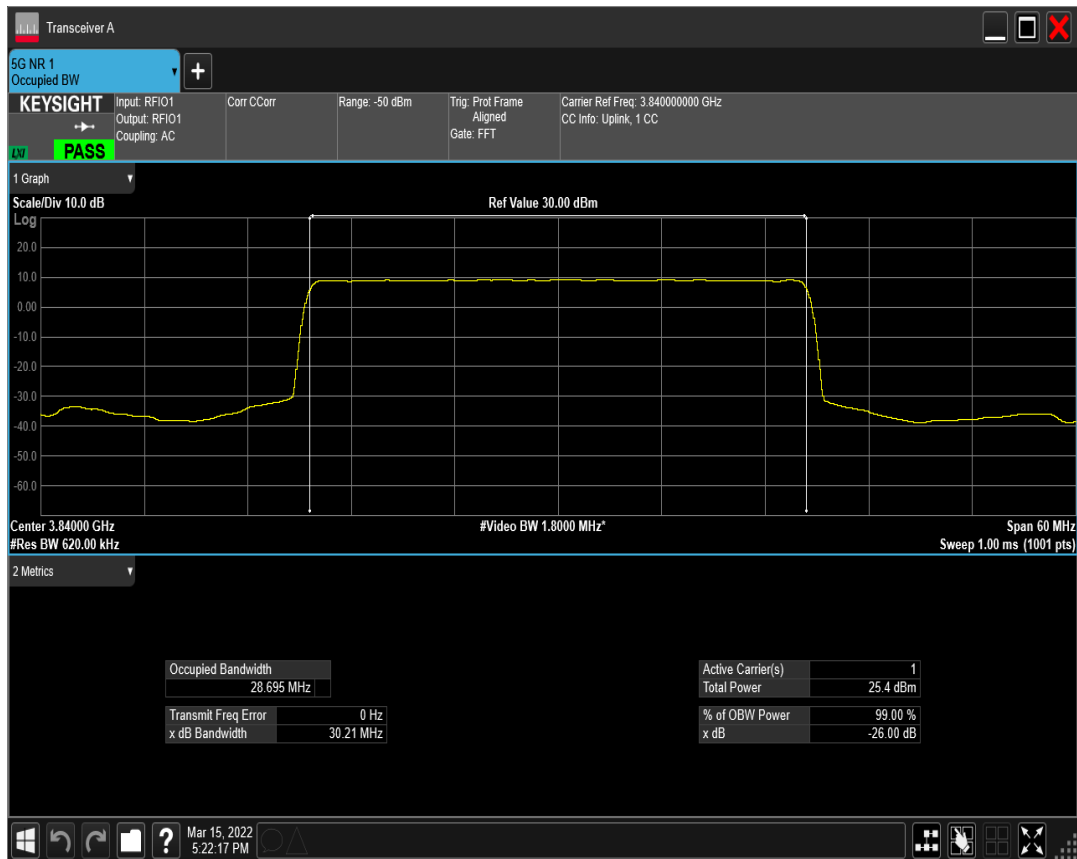
2 Metrics

Occupied Bandwidth	28.695 MHz
Transmit Freq Error	0 Hz
x dB Bandwidth	30.21 MHz

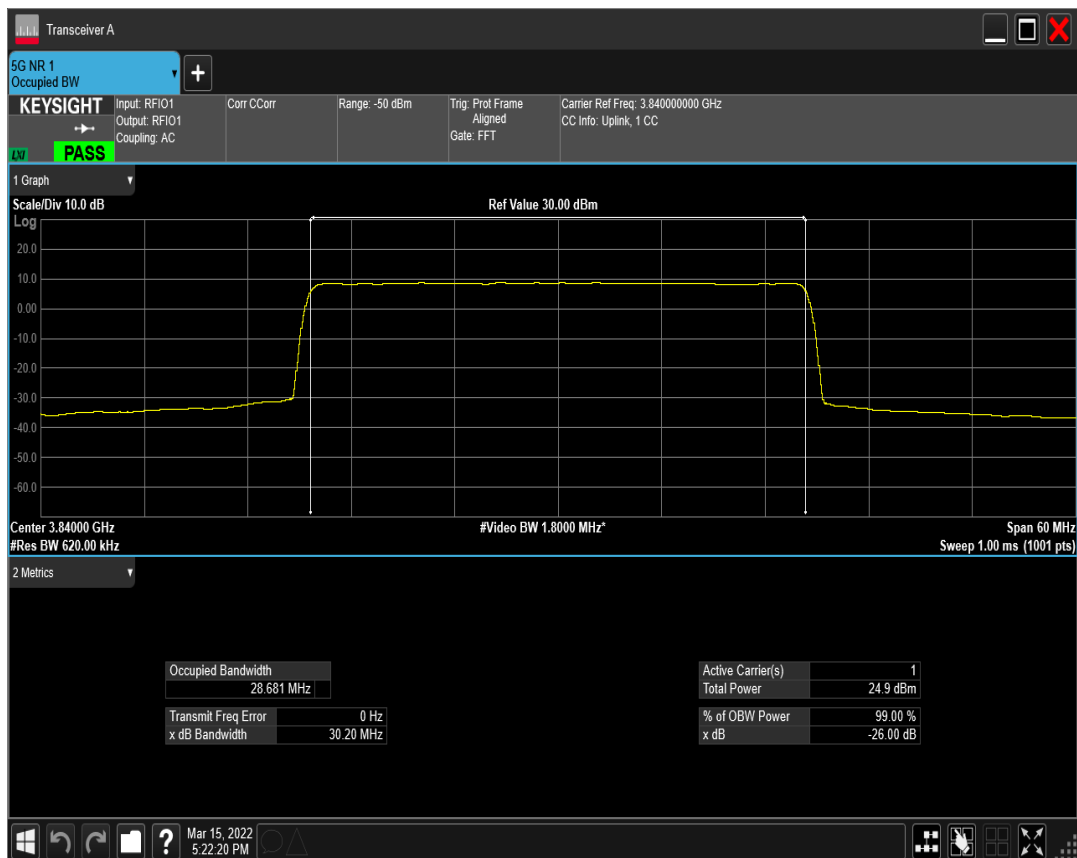
Active Carrier(s)	1
Total Power	21.5 dBm
% of OBW Power	99.00 %
x dB	-26.00 dB

Mar 15, 2022
5:22:01 PM

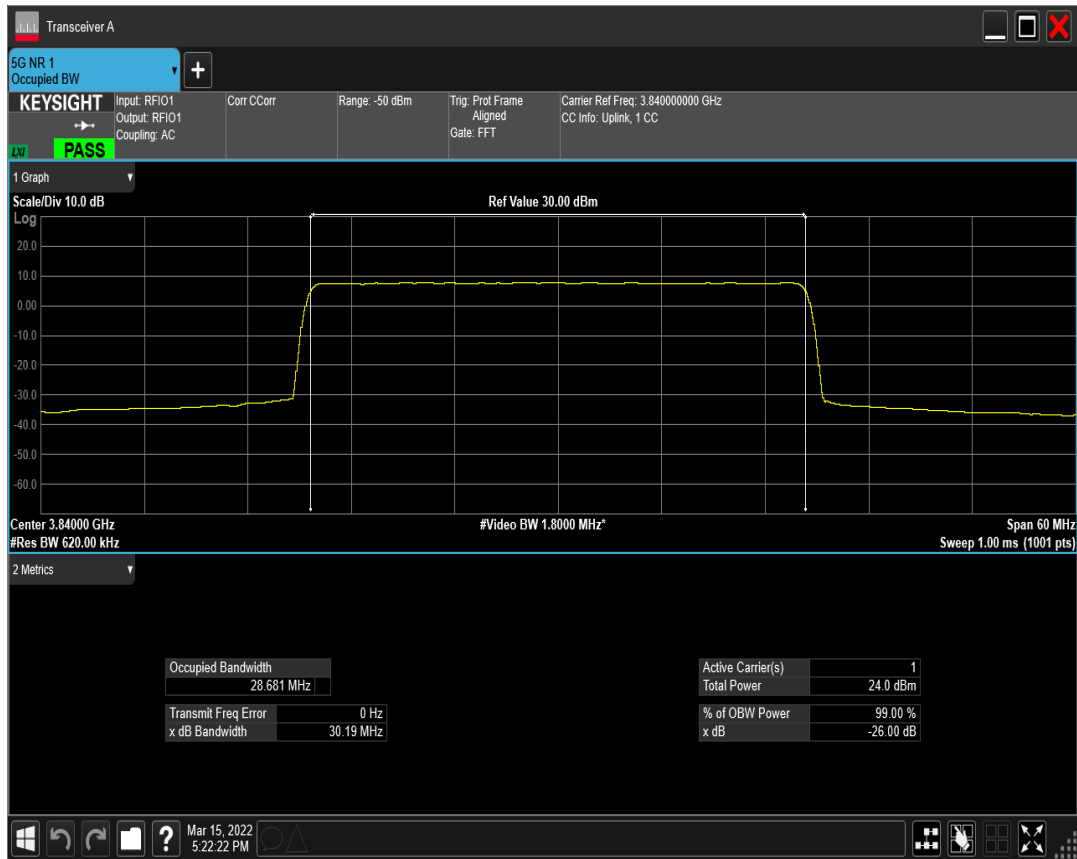
n77(3700-3980) SCS=15kHz DFT_BPSK BW=30MHz Channel=656000 RB=160@0



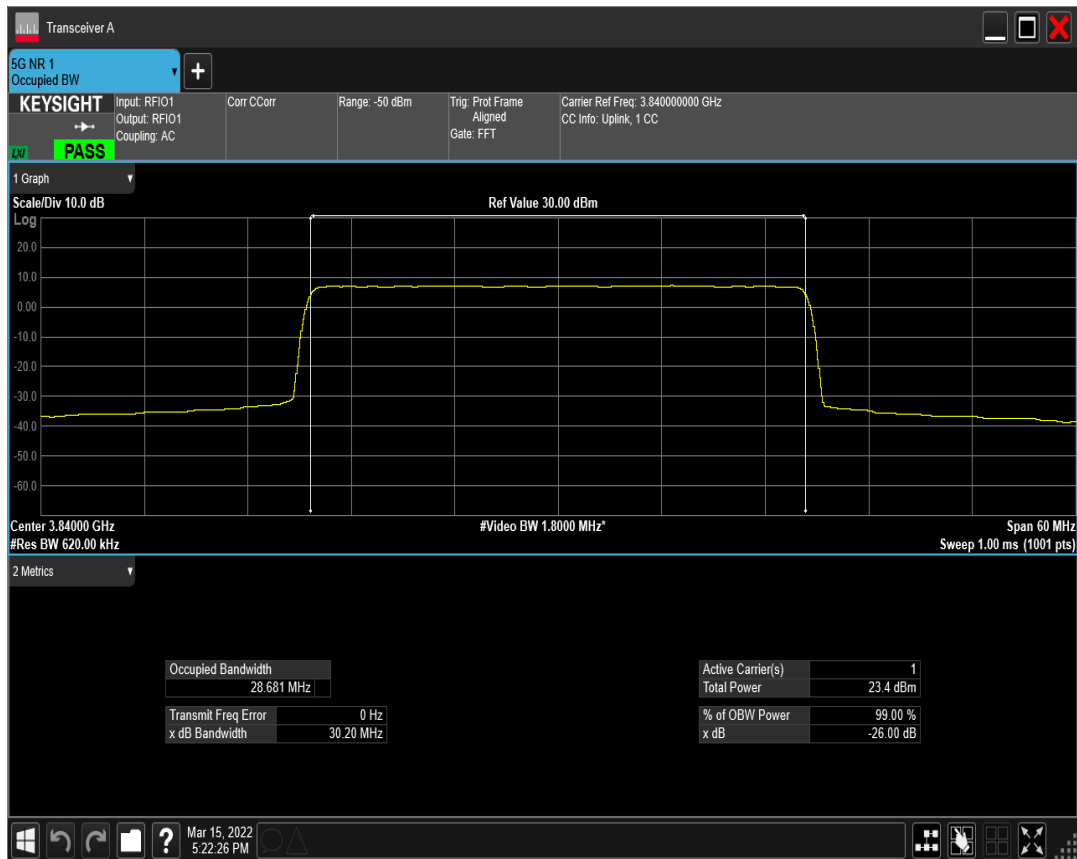
n77(3700-3980) SCS=15kHz DFT_QPSK BW=30MHz Channel=656000 RB=160@0



n77(3700-3980) SCS=15kHz DFT_QAM16 BW=30MHz Channel=656000 RB=160@0



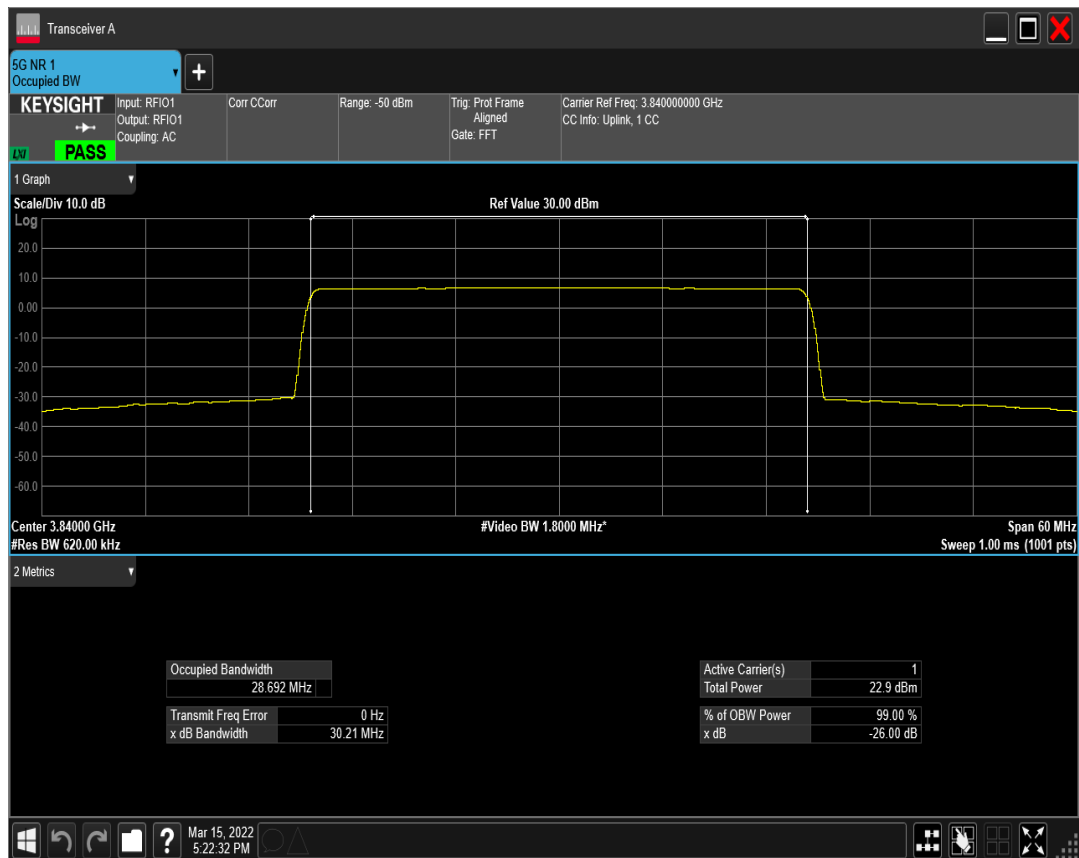
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=30MHz Channel=656000 RB=160@0



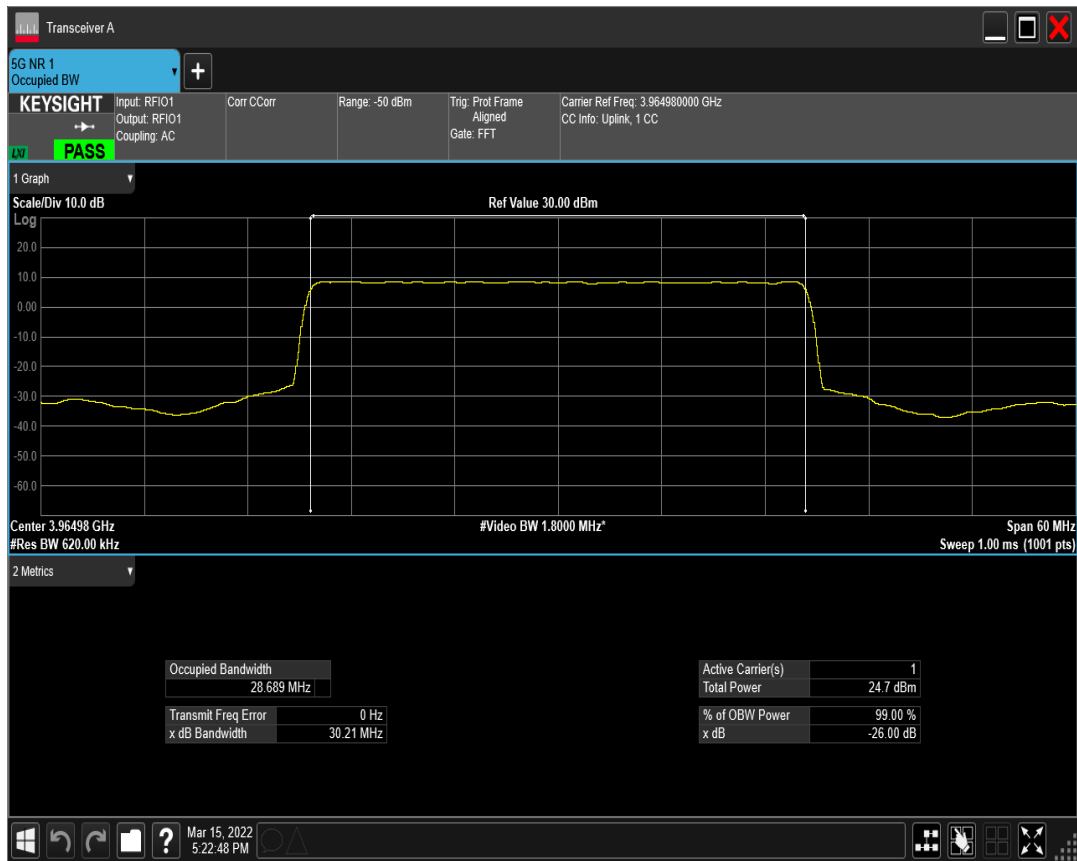
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=30MHz Channel=656000 RB=160@0



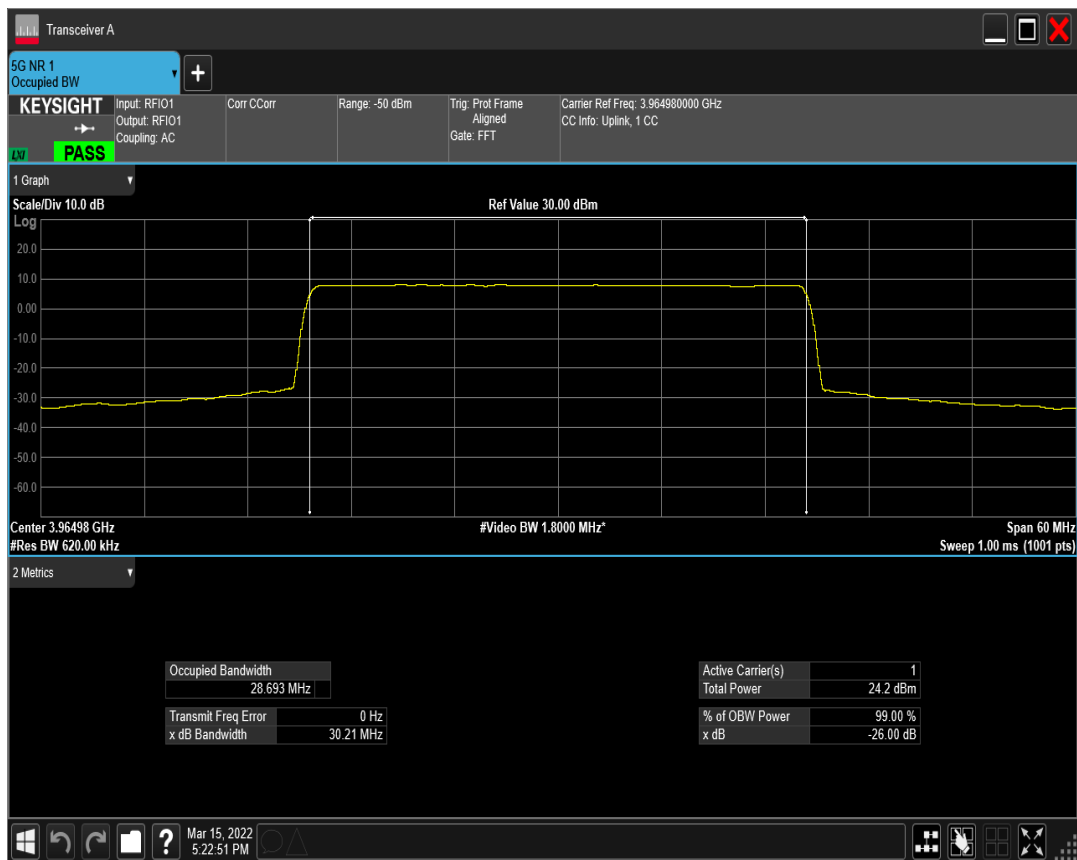
n77(3700-3980) SCS=15kHz CP_QPSK BW=30MHz Channel=656000 RB=160@0



n77(3700-3980) SCS=15kHz DFT_BPSK BW=30MHz Channel=664332 RB=160@0



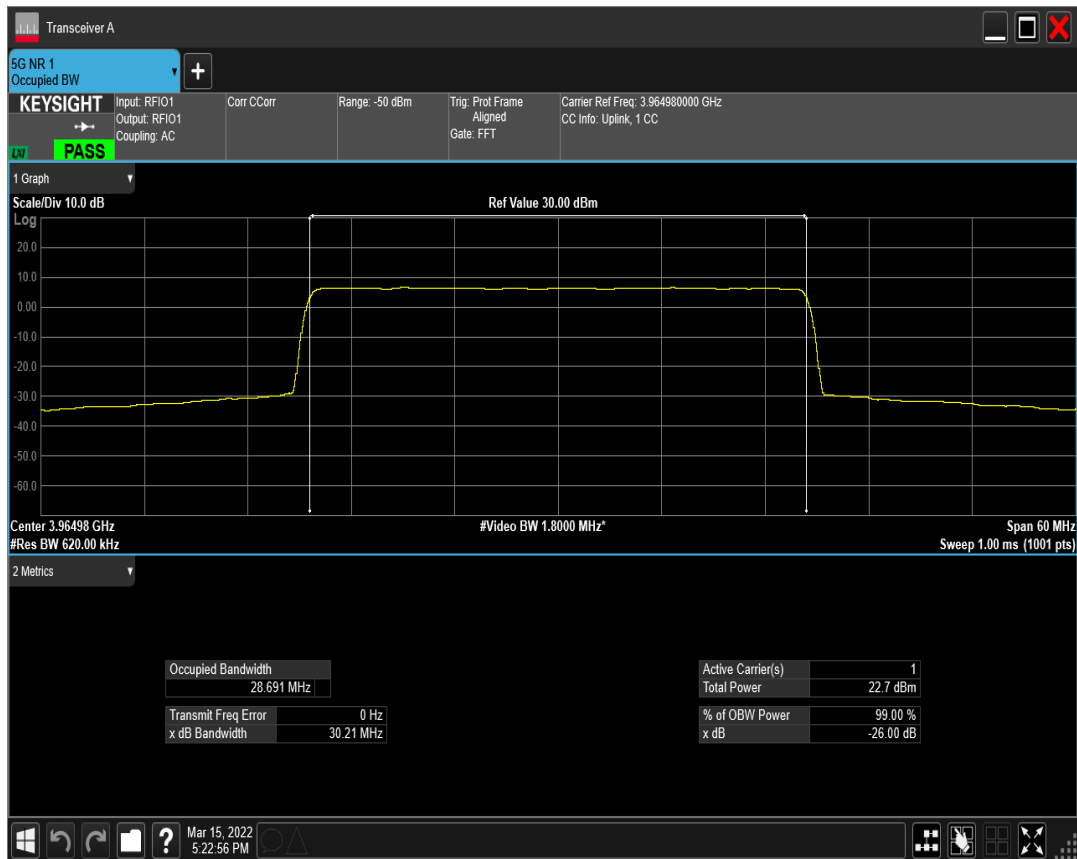
n77(3700-3980) SCS=15kHz DFT_QPSK BW=30MHz Channel=664332 RB=160@0



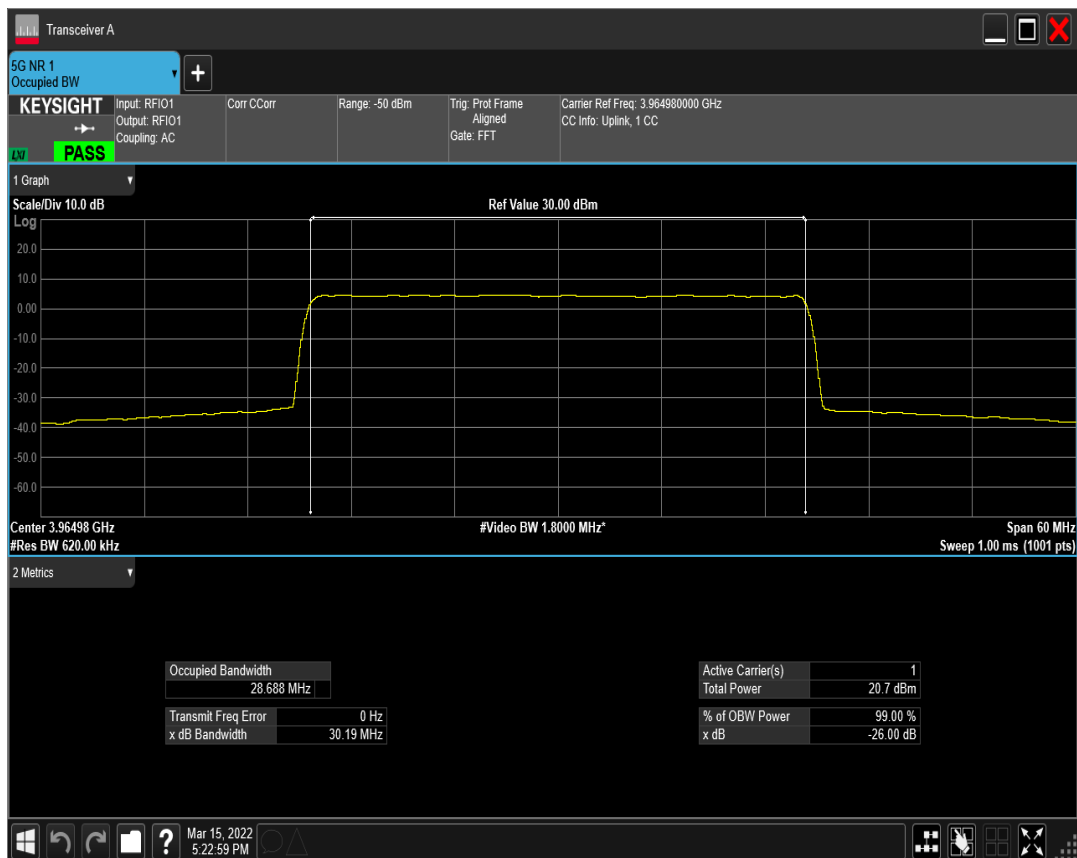
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=30MHz Channel=664332 RB=160@0



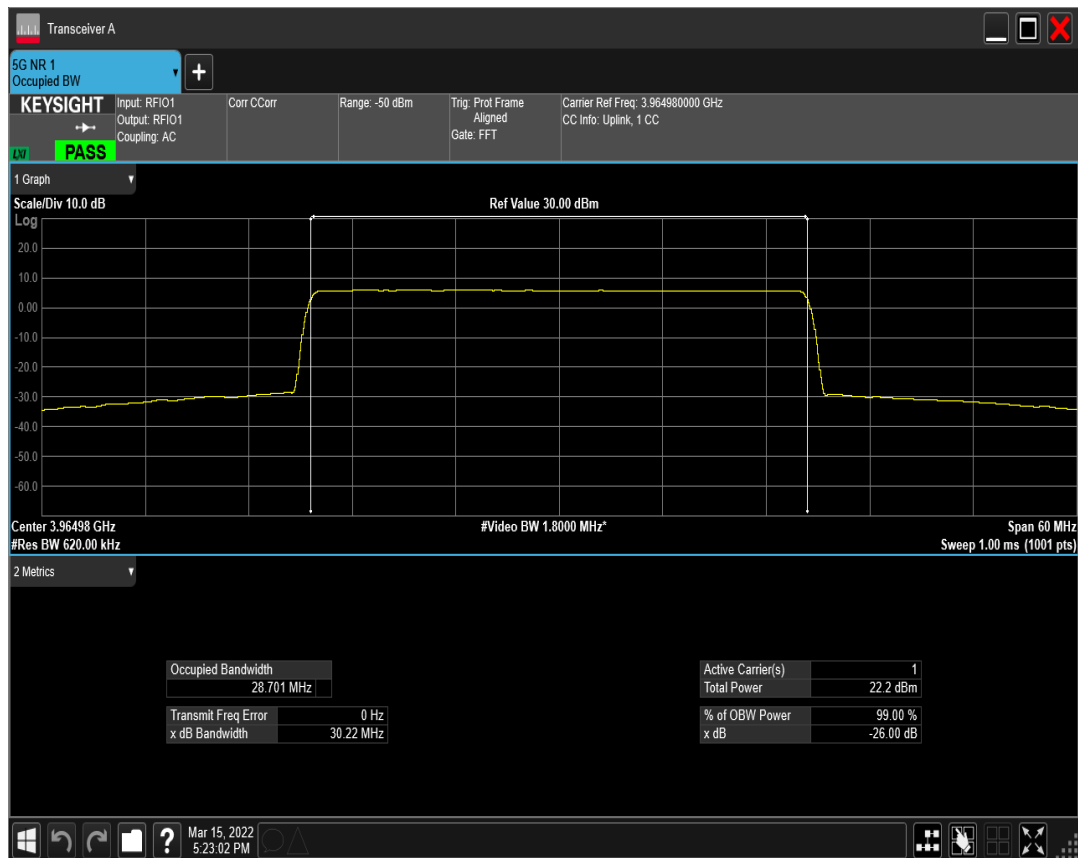
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=30MHz Channel=664332 RB=160@0



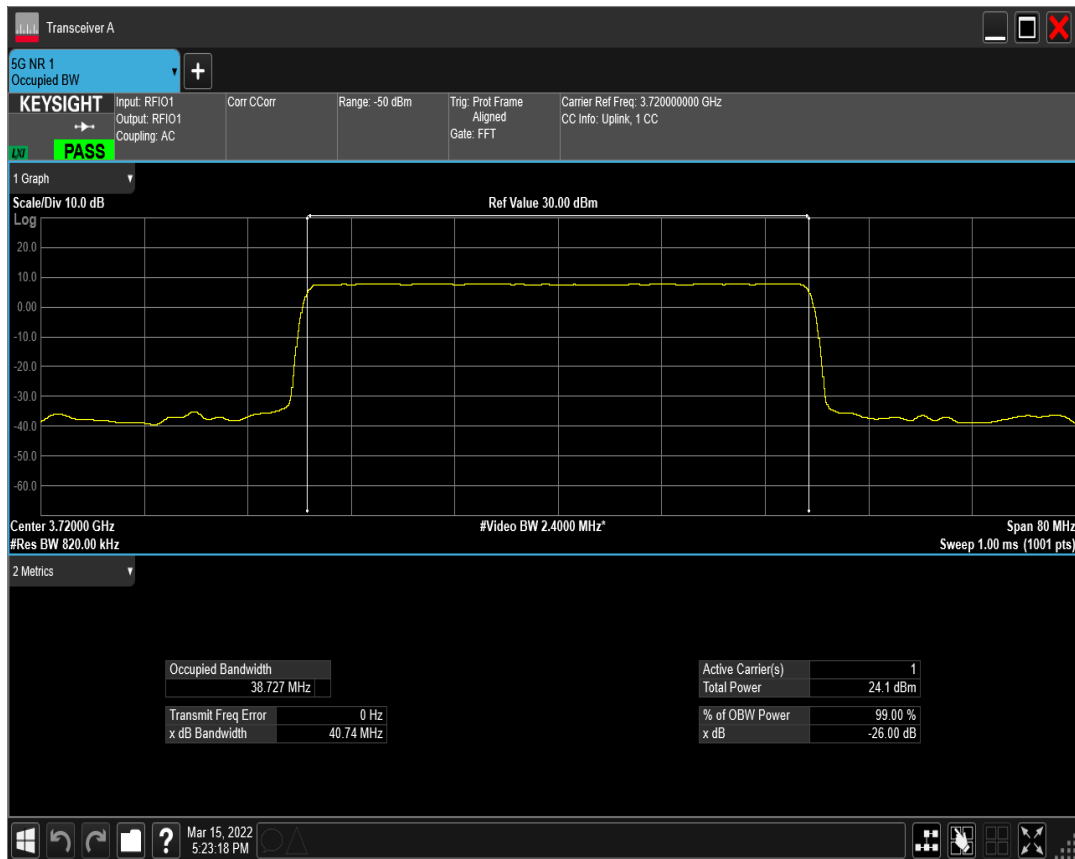
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=30MHz Channel=664332 RB=160@0



n77(3700-3980) SCS=15kHz CP_QPSK BW=30MHz Channel=664332 RB=160@0



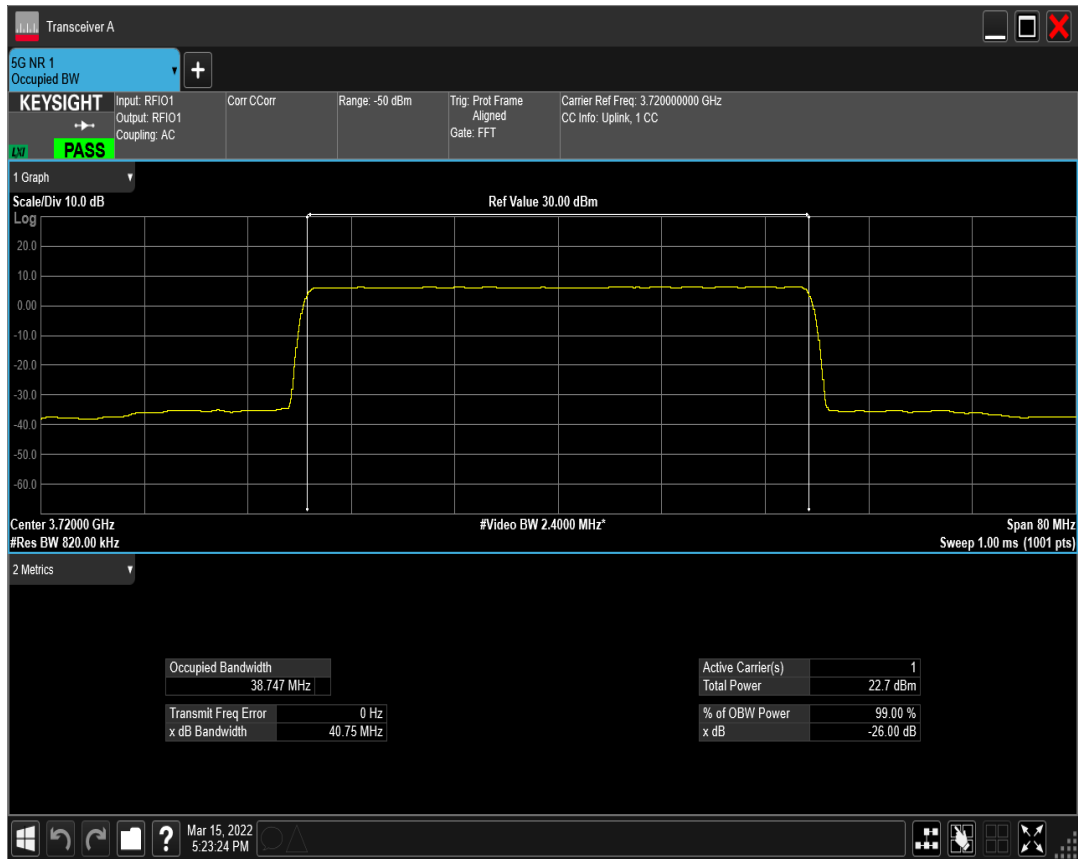
n77(3700-3980) SCS=15kHz DFT_BPSK BW=40MHz Channel=648000 RB=216@0



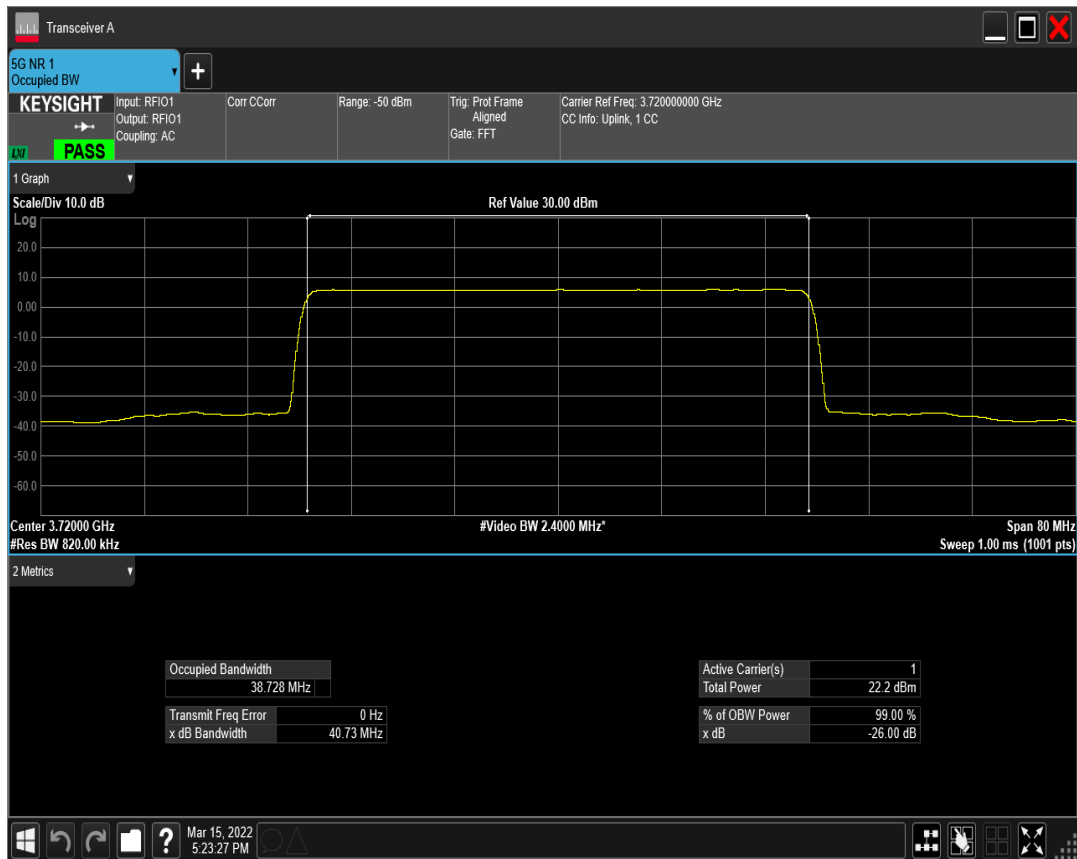
n77(3700-3980) SCS=15kHz DFT_QPSK BW=40MHz Channel=648000 RB=216@0



n77(3700-3980) SCS=15kHz DFT_QAM16 BW=40MHz Channel=648000 RB=216@0



n77(3700-3980) SCS=15kHz DFT_QAM64 BW=40MHz Channel=648000 RB=216@0



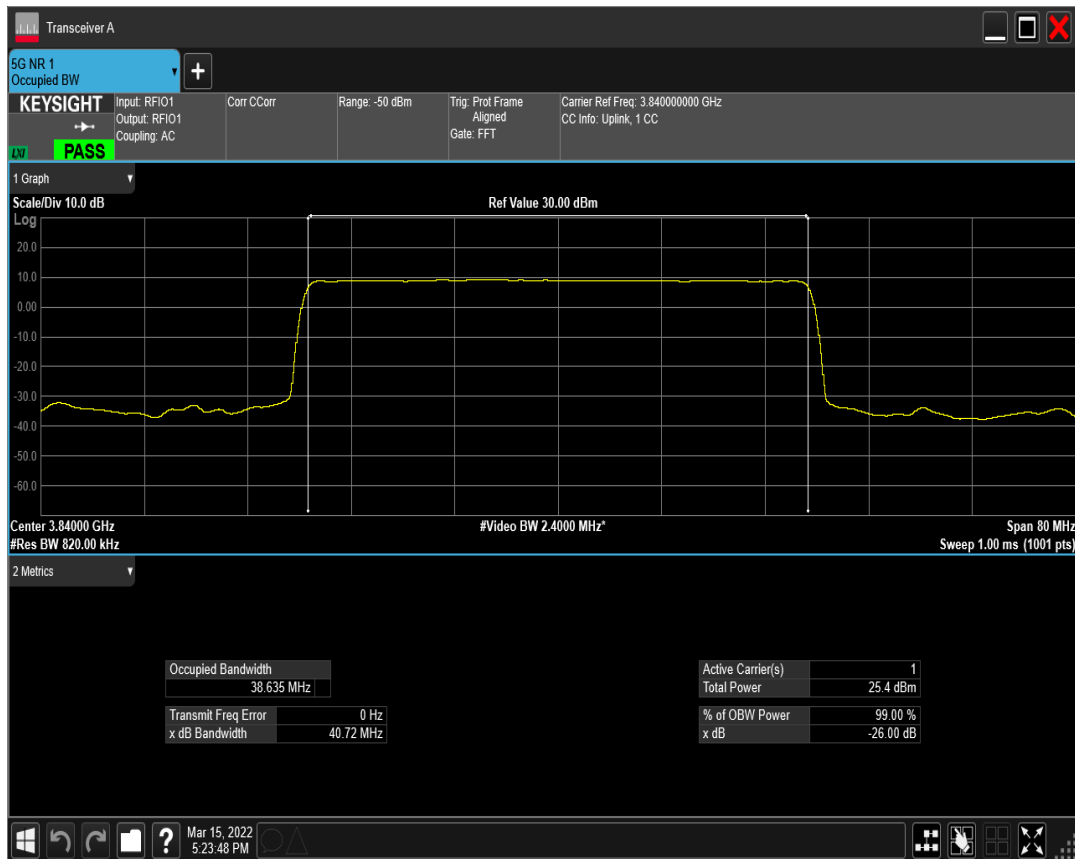
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=40MHz Channel=648000 RB=216@0



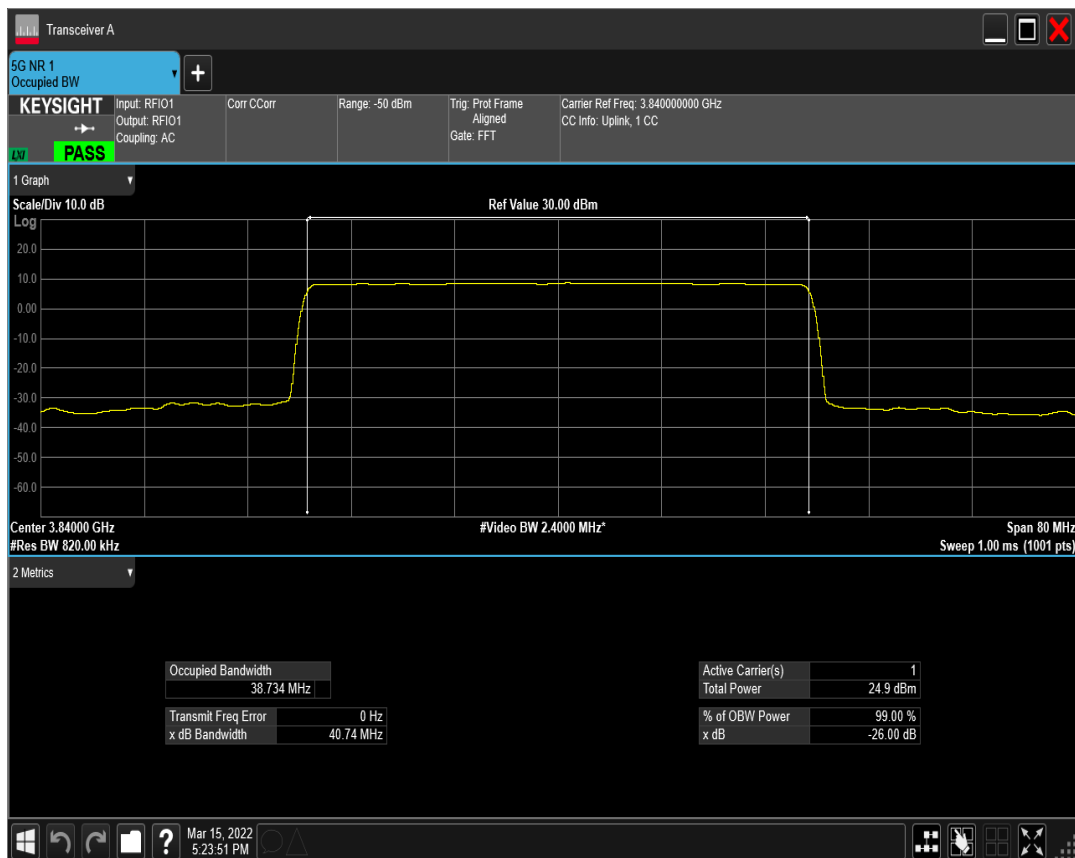
n77(3700-3980) SCS=15kHz CP_QPSK BW=40MHz Channel=648000 RB=216@0



n77(3700-3980) SCS=15kHz DFT_BPSK BW=40MHz Channel=656000 RB=216@0



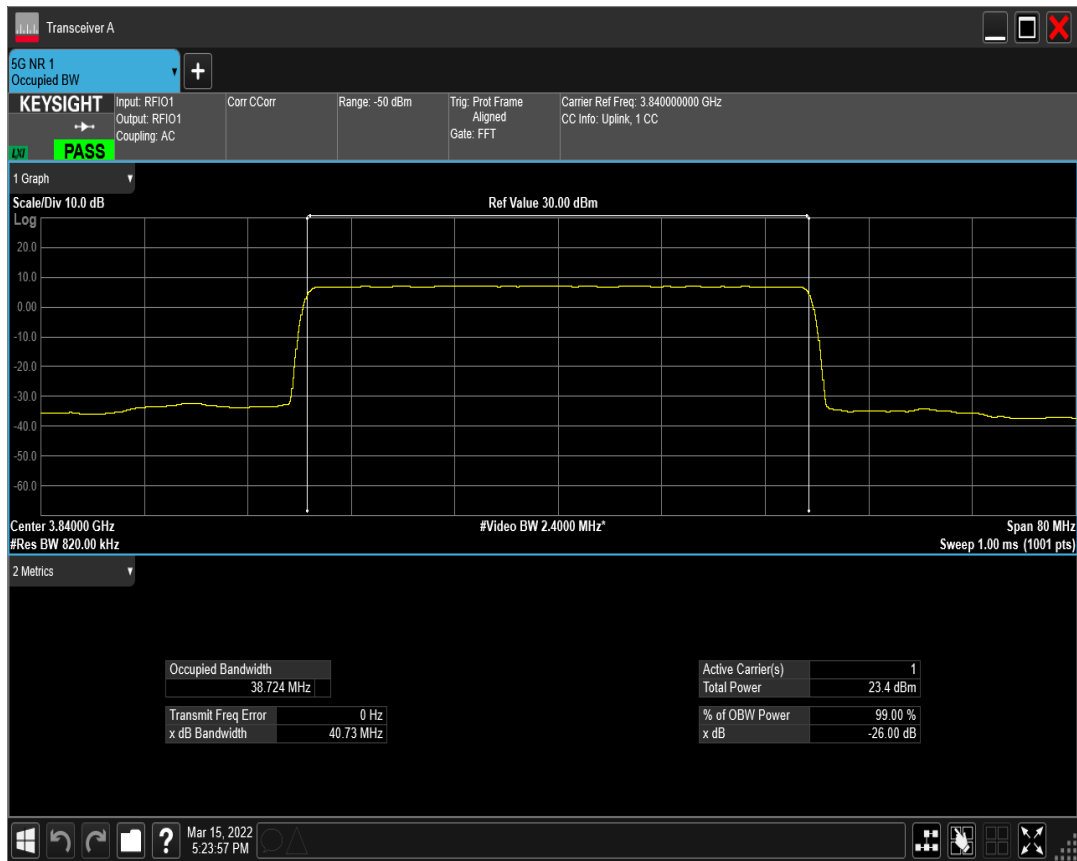
n77(3700-3980) SCS=15kHz DFT_QPSK BW=40MHz Channel=656000 RB=216@0



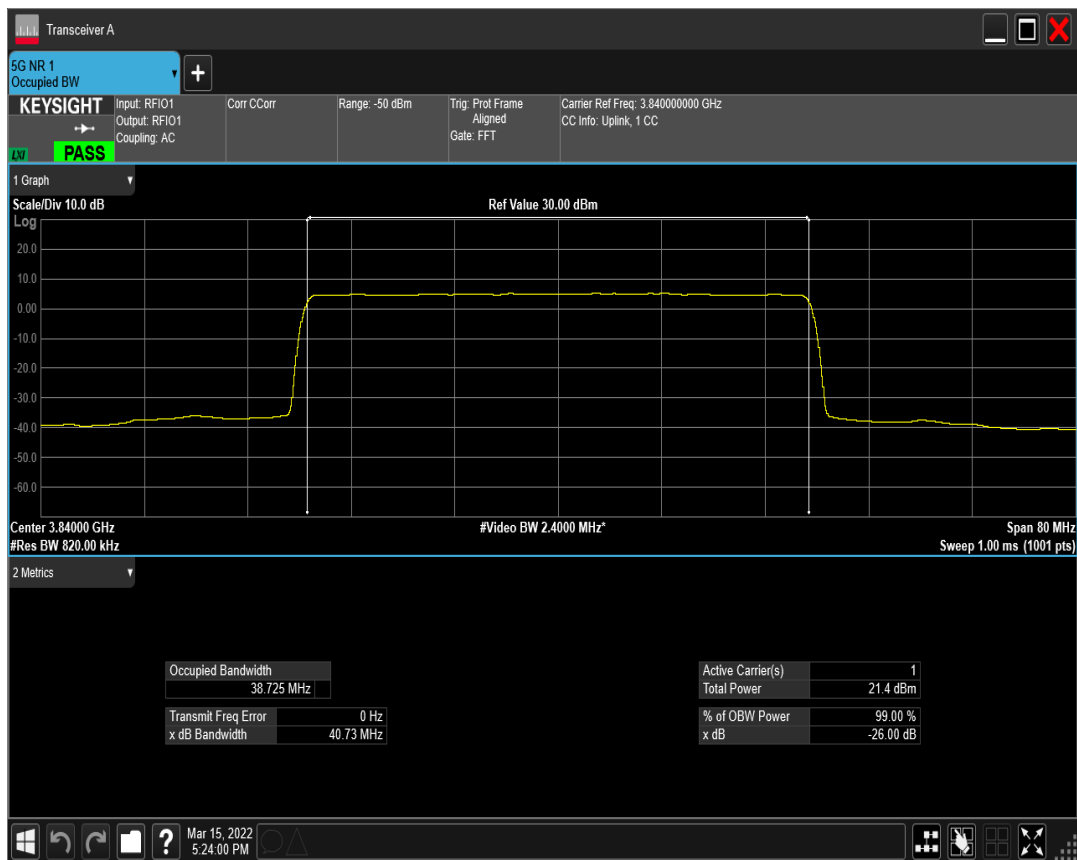
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=40MHz Channel=656000 RB=216@0



n77(3700-3980) SCS=15kHz DFT_QAM64 BW=40MHz Channel=656000 RB=216@0



n77(3700-3980) SCS=15kHz DFT_QAM256 BW=40MHz Channel=656000 RB=216@0



n77(3700-3980) SCS=15kHz CP_QPSK BW=40MHz Channel=656000 RB=216@0



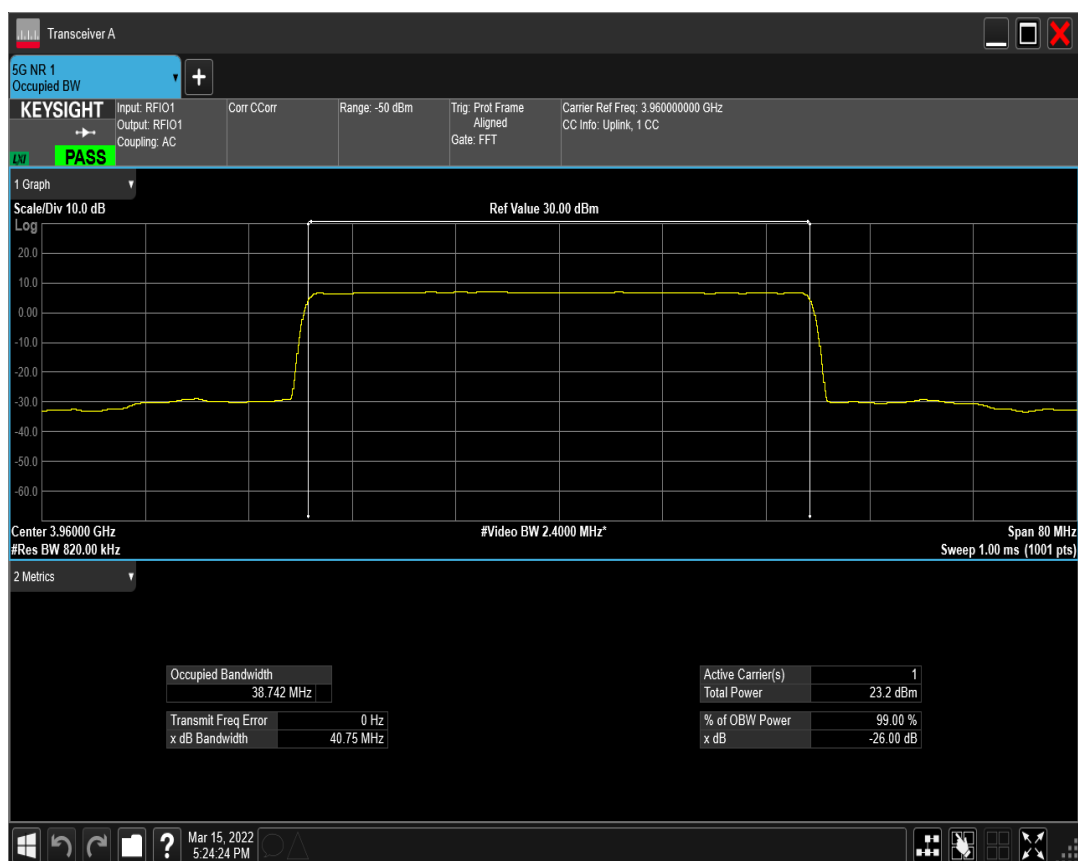
n77(3700-3980) SCS=15kHz DFT_BPSK BW=40MHz Channel=664000 RB=216@0



n77(3700-3980) SCS=15kHz DFT_QPSK BW=40MHz Channel=664000 RB=216@0



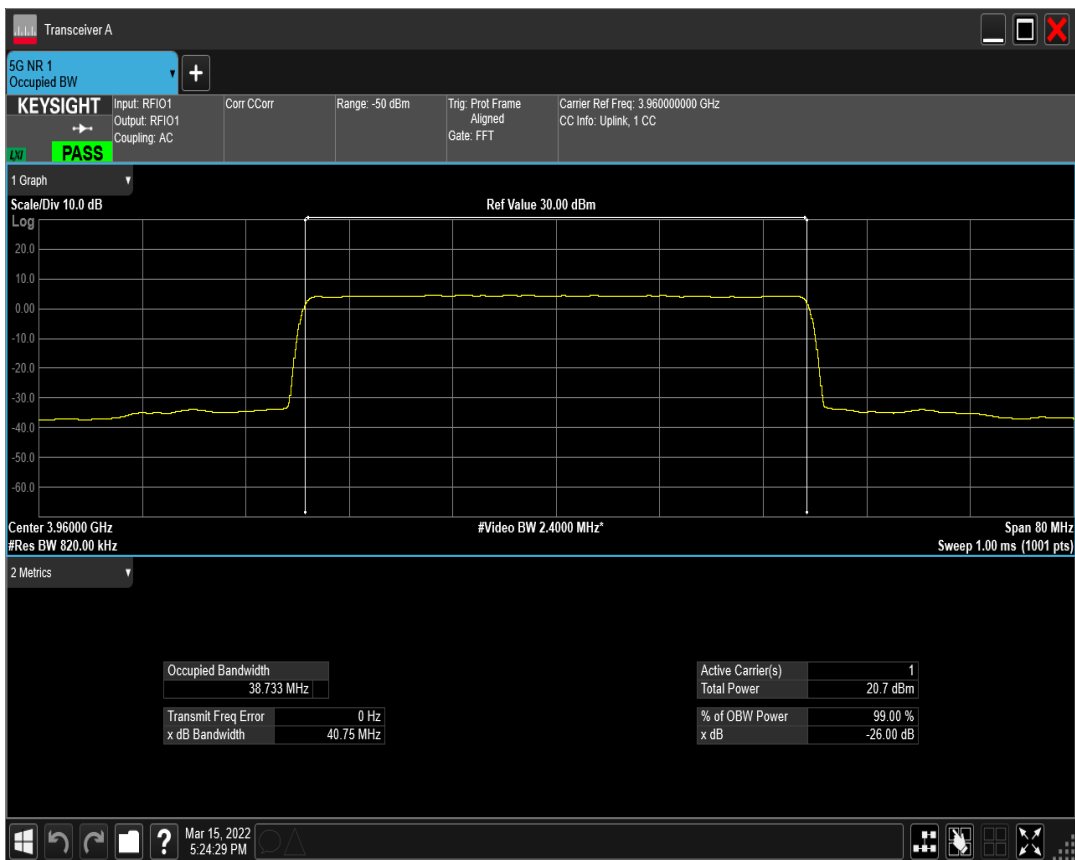
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=40MHz Channel=664000 RB=216@0



n77(3700-3980) SCS=15kHz DFT_QAM64 BW=40MHz Channel=664000 RB=216@0



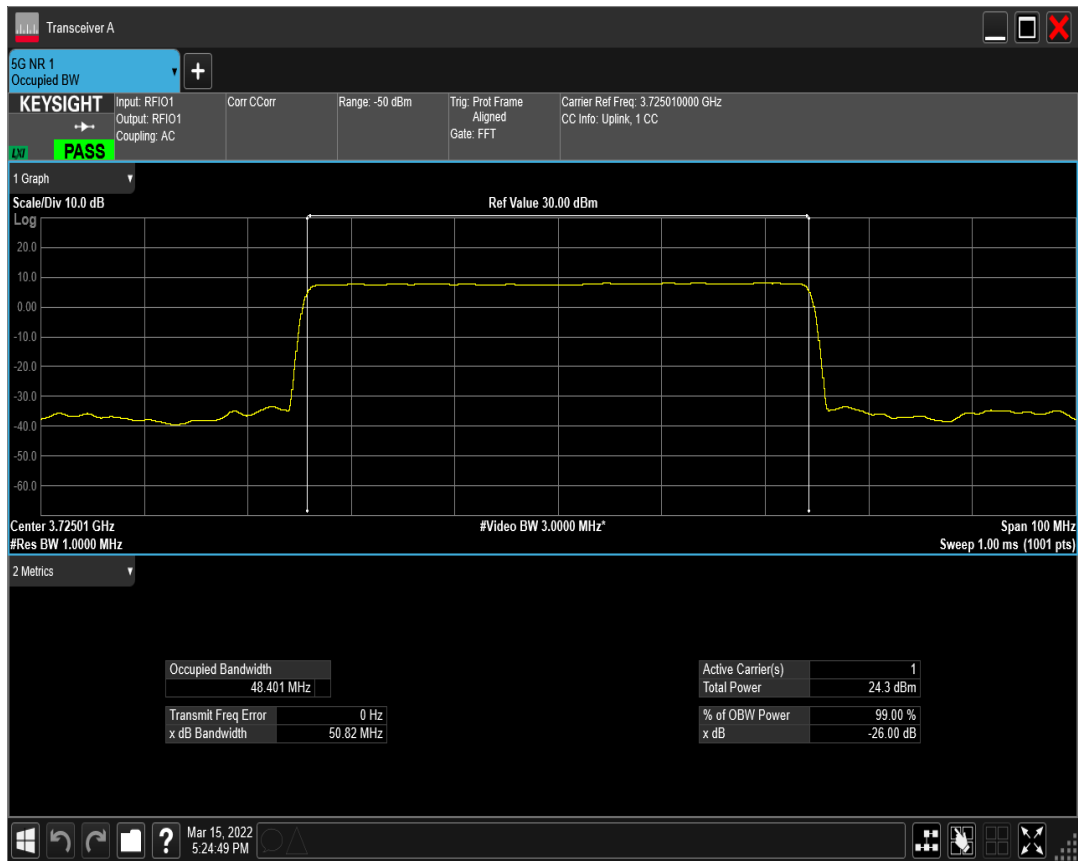
n77(3700-3980) SCS=15kHz DFT_QAM256 BW=40MHz Channel=664000 RB=216@0



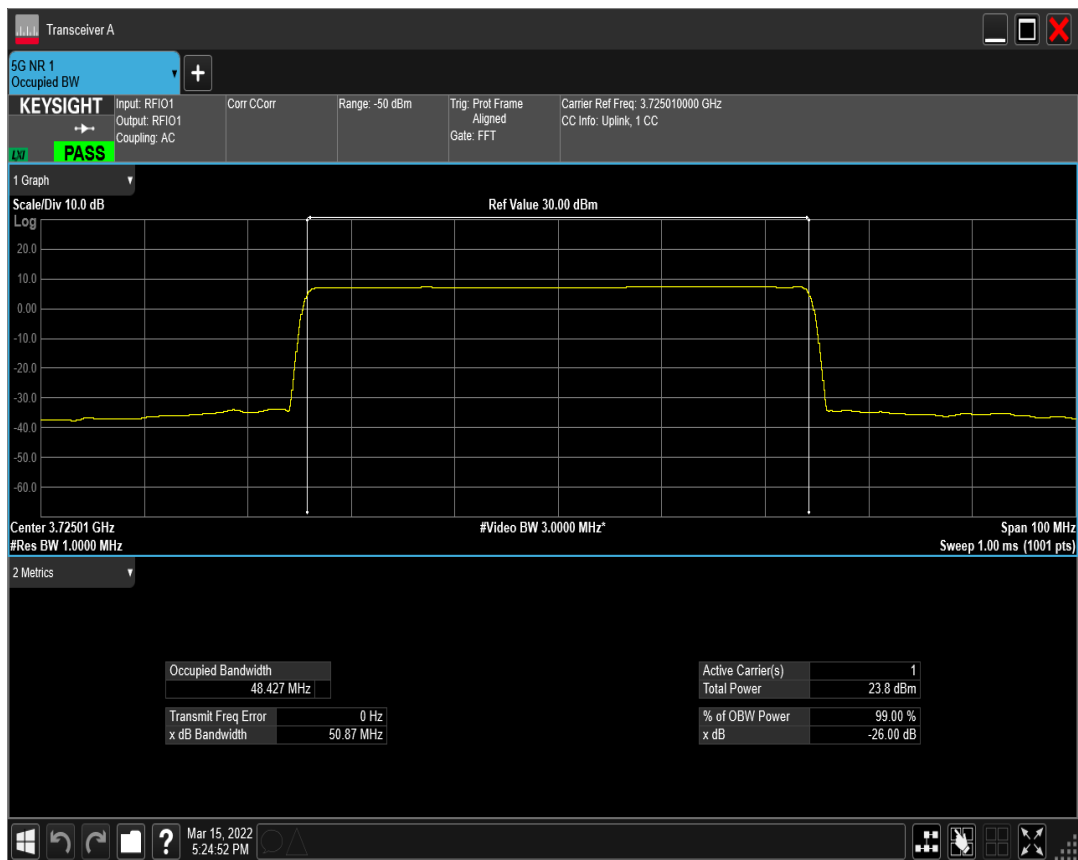
n77(3700-3980) SCS=15kHz CP_QPSK BW=40MHz Channel=664000 RB=216@0



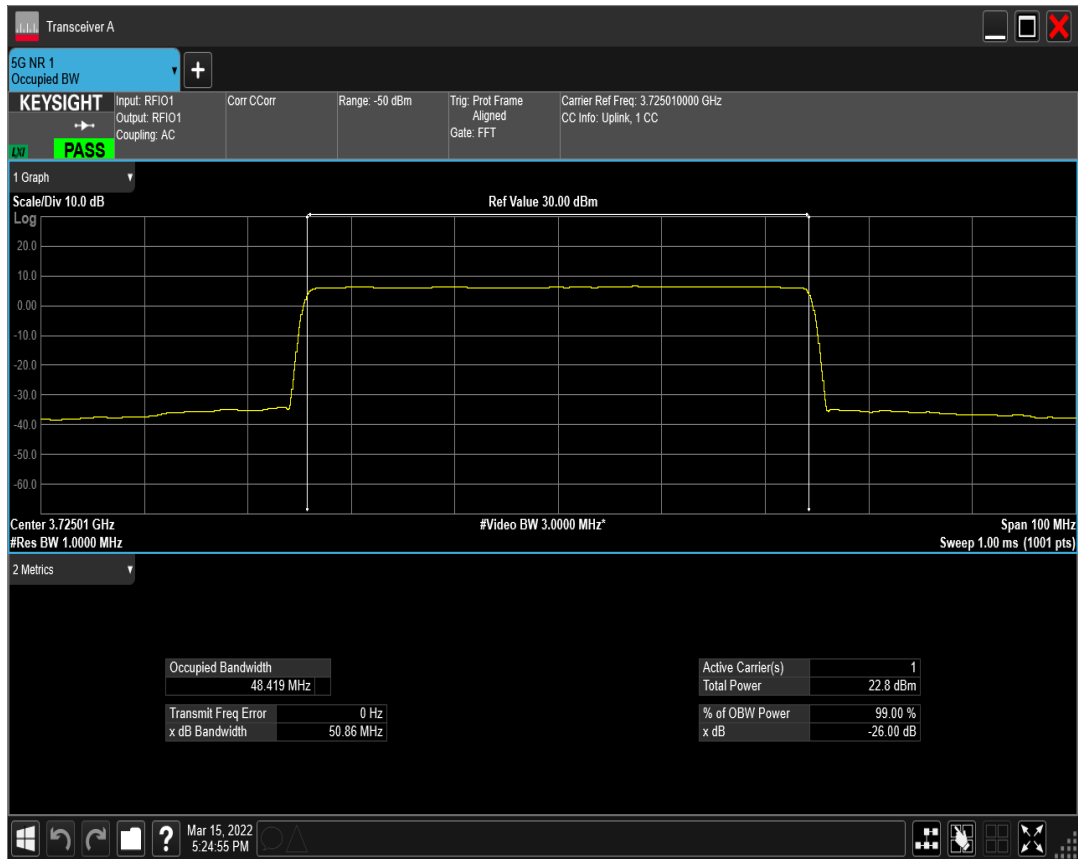
n77(3700-3980) SCS=15kHz DFT_BPSK BW=50MHz Channel=648334 RB=270@0



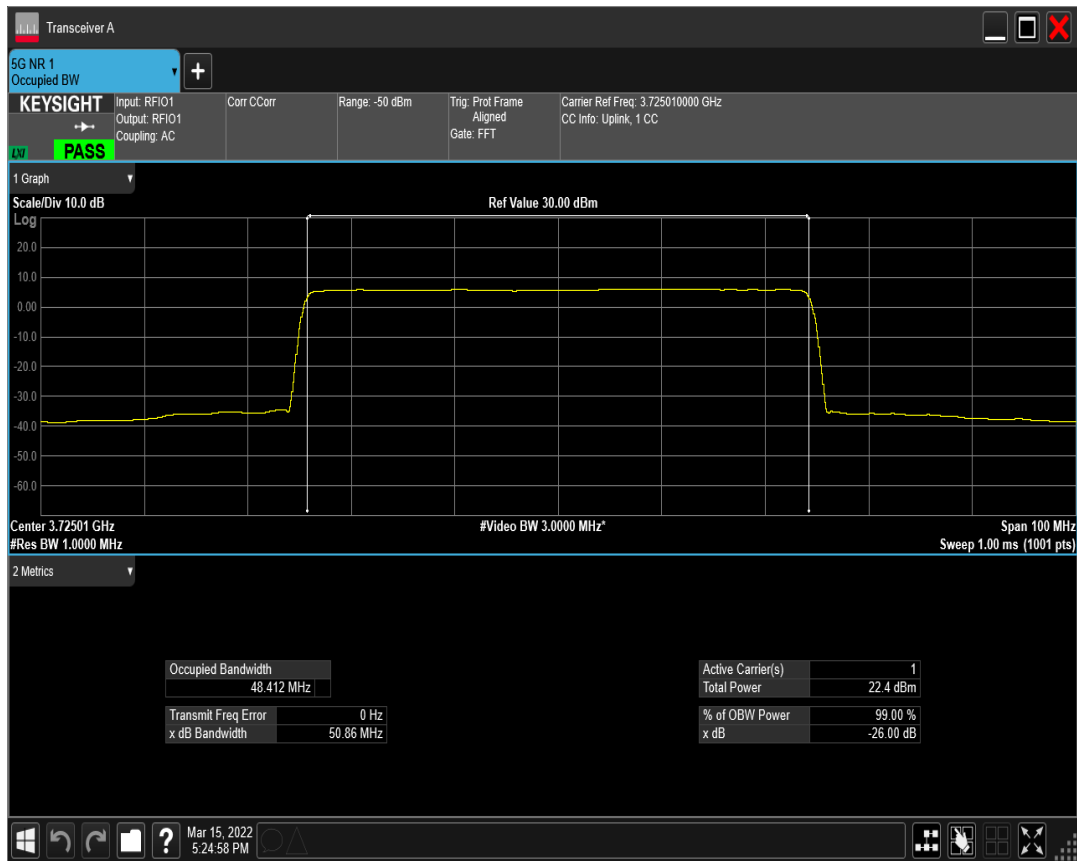
n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=648334 RB=270@0



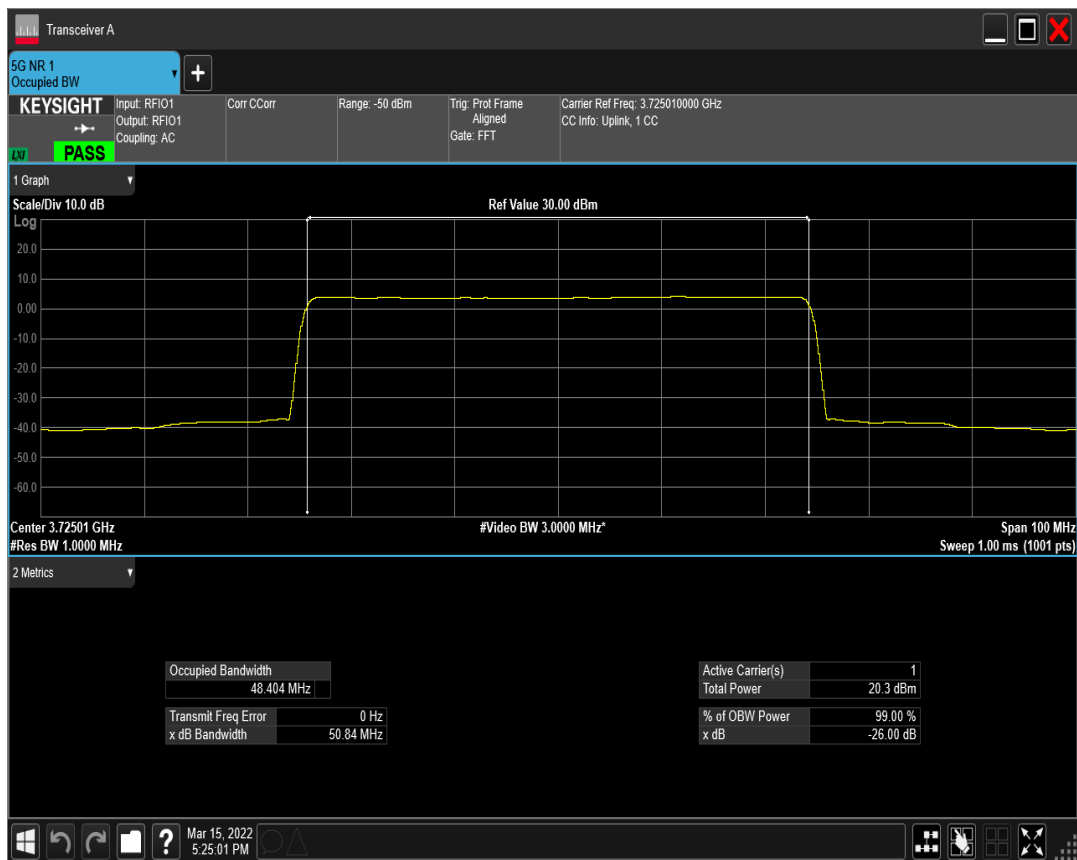
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=50MHz Channel=648334 RB=270@0



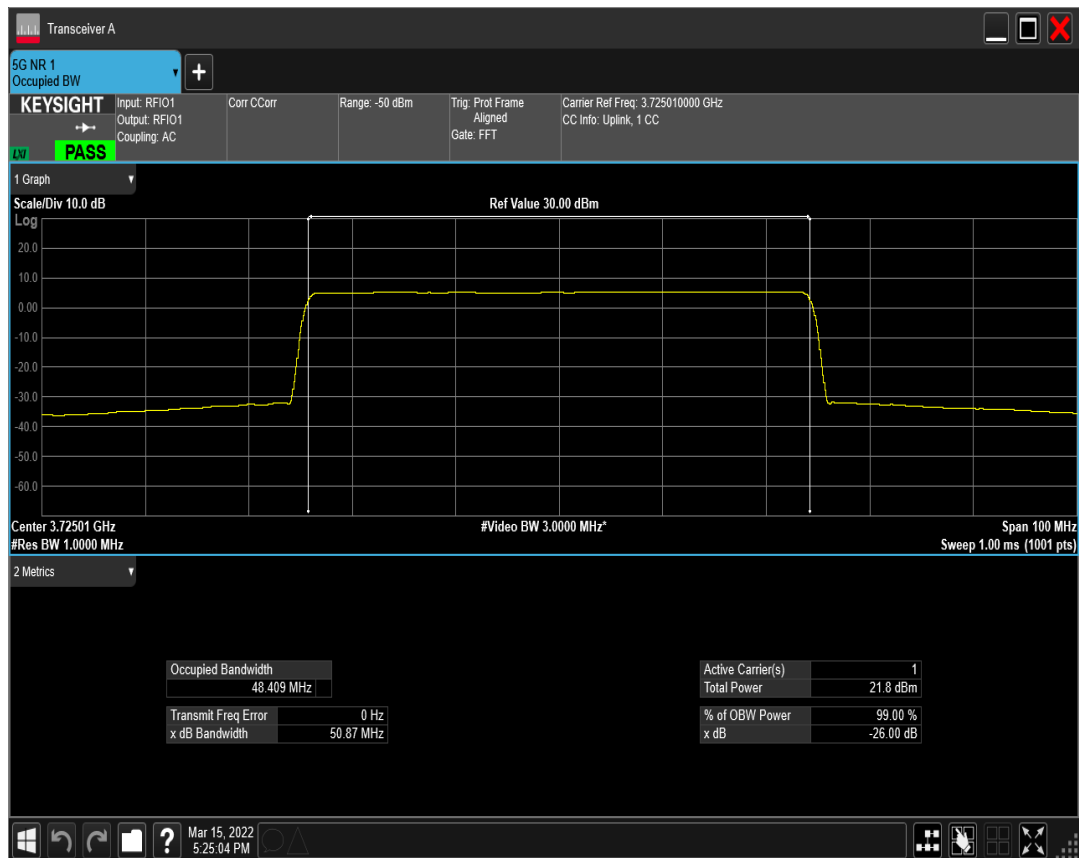
n77(3700-3980) SCS=15kHz DFT_QAM64 BW=50MHz Channel=648334 RB=270@0



n77(3700-3980) SCS=15kHz DFT_QAM256 BW=50MHz Channel=648334 RB=270@0



n77(3700-3980) SCS=15kHz CP_QPSK BW=50MHz Channel=648334 RB=270@0



n77(3700-3980) SCS=15kHz DFT_BPSK BW=50MHz Channel=656000 RB=270@0



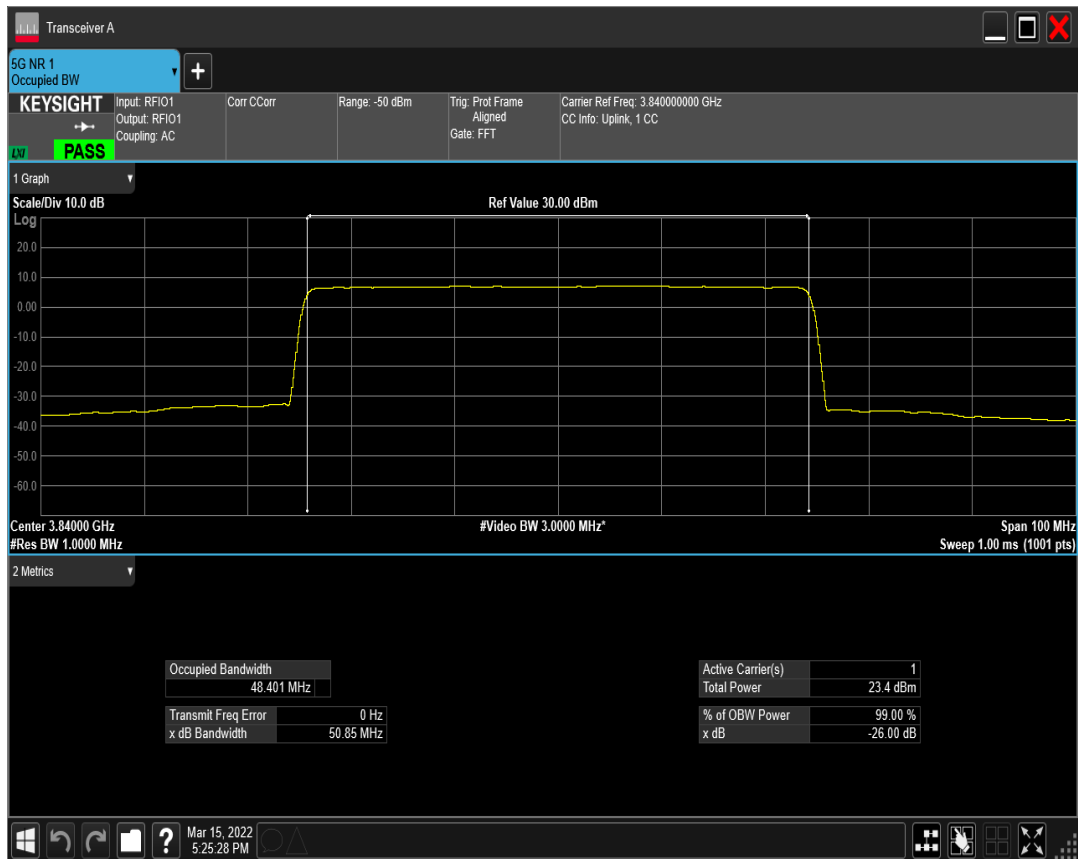
n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=656000 RB=270@0



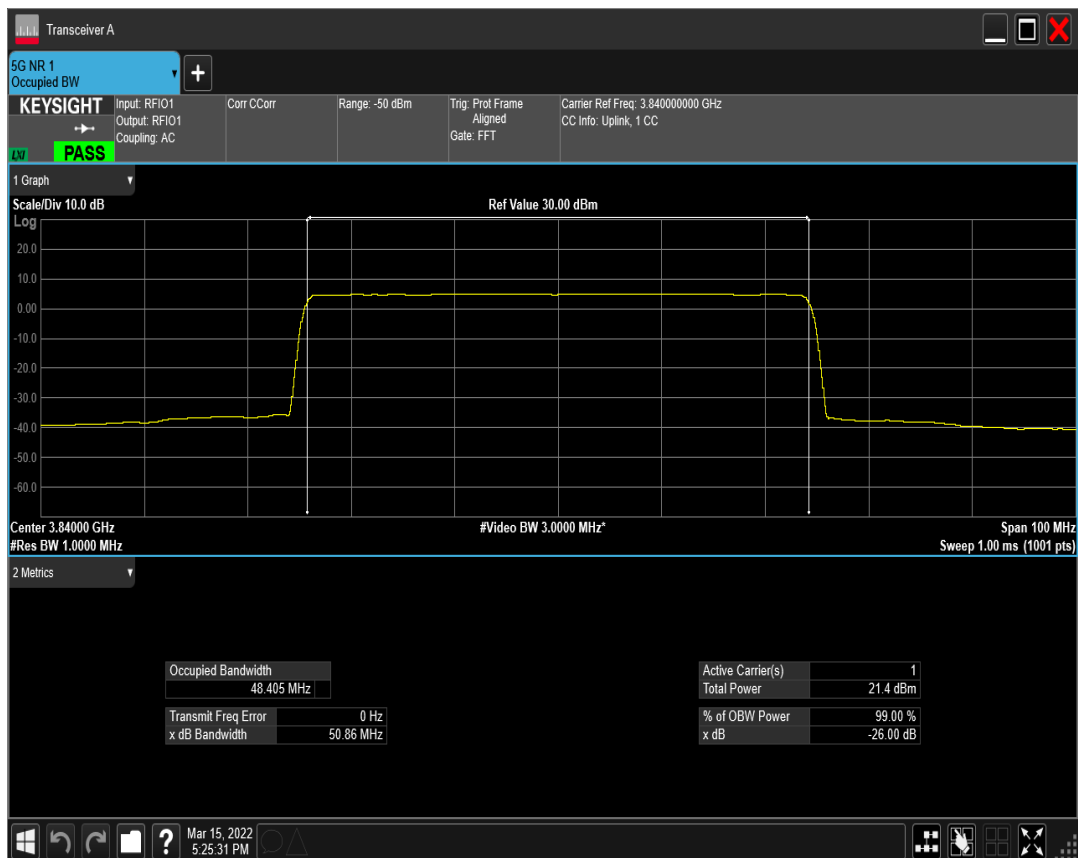
n77(3700-3980) SCS=15kHz DFT_QAM16 BW=50MHz Channel=656000 RB=270@0



n77(3700-3980) SCS=15kHz DFT_QAM64 BW=50MHz Channel=656000 RB=270@0



n77(3700-3980) SCS=15kHz DFT_QAM256 BW=50MHz Channel=656000 RB=270@0



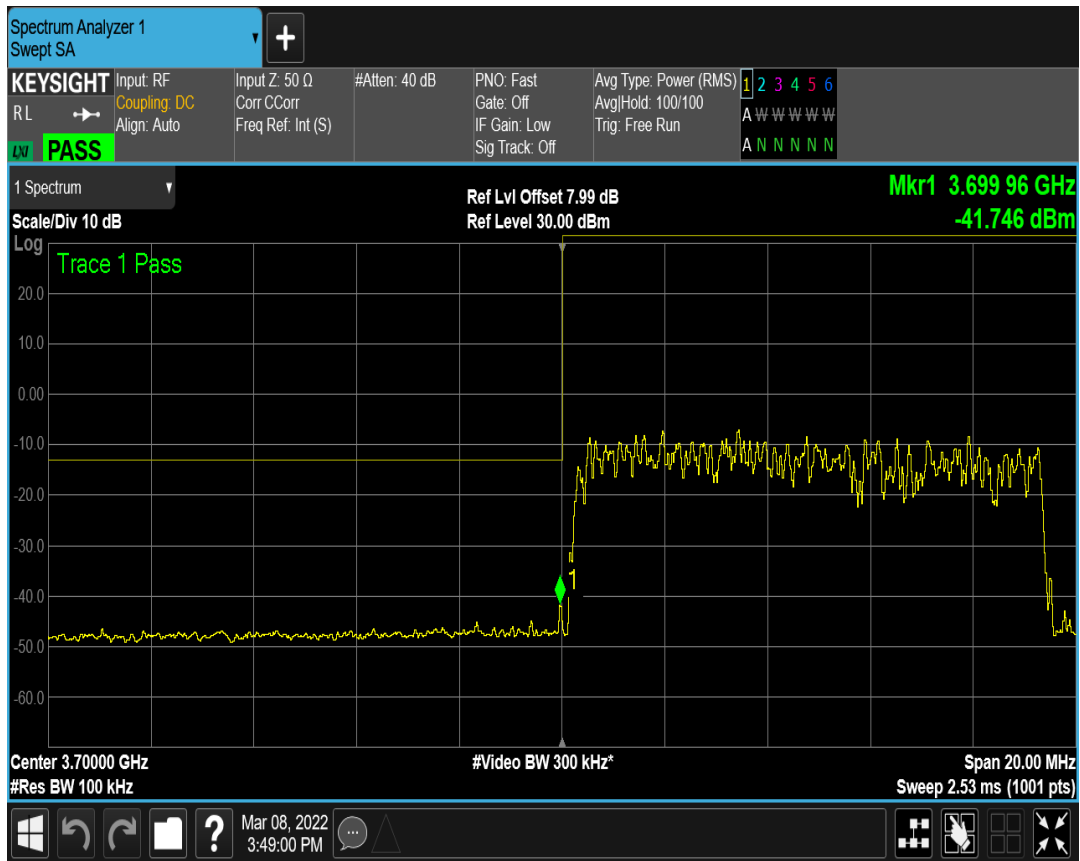
n77(3700-3980) SCS=15kHz CP_QPSK BW=50MHz Channel=656000 RB=270@0



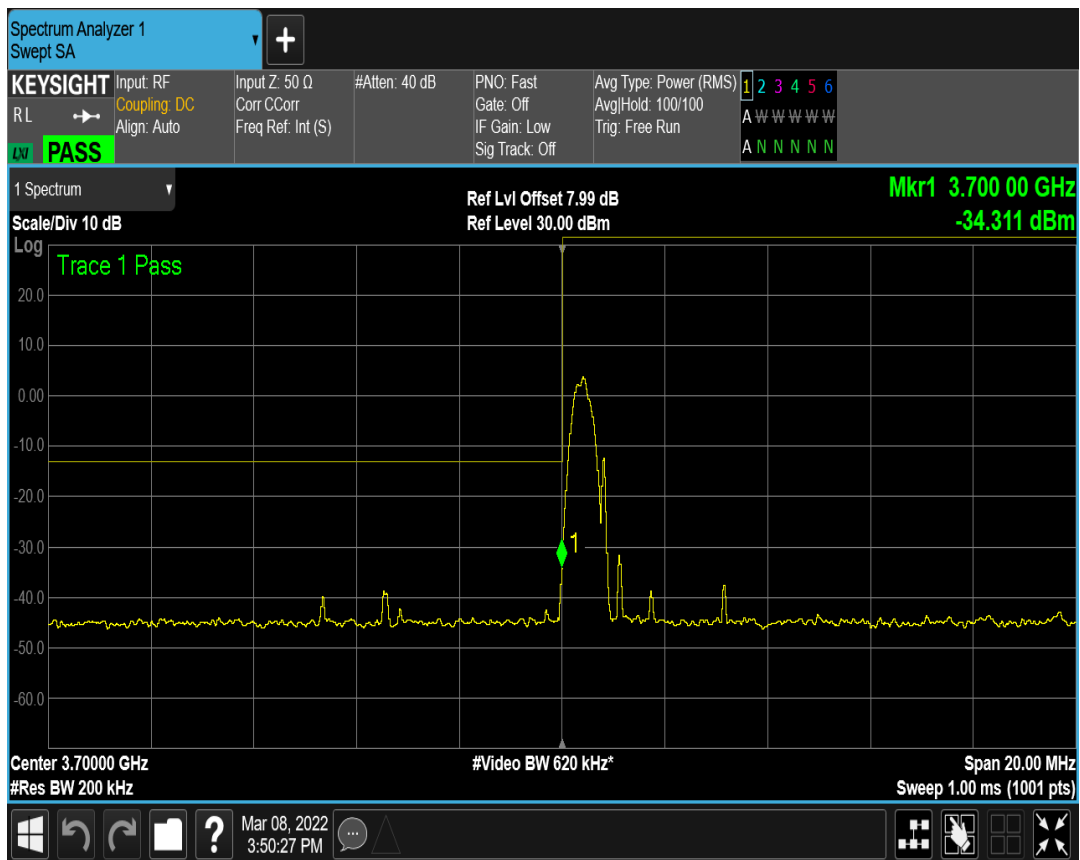
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3700-3980)	15	10	647000	50@0	DFT_QPSK	3699.96	-41.74	-13	PASS
n77(3700-3980)	15	10	647000	1@0	DFT_QPSK	3700.00	-34.31	-13	PASS
n77(3700-3980)	15	10	665000	50@0	DFT_QPSK	3981.54	-44.34	-13	PASS
n77(3700-3980)	15	10	665000	1@51	DFT_QPSK	3980.02	-20.27	-13	PASS
n77(3700-3980)	15	50	648334	270@0	DFT_QPSK	3699.10	-38.11	-13	PASS
n77(3700-3980)	15	50	648334	1@0	DFT_QPSK	3698.90	-41.14	-13	PASS
n77(3700-3980)	15	50	663666	270@0	DFT_QPSK	3980.00	-39.64	-13	PASS
n77(3700-3980)	15	50	663666	1@269	DFT_QPSK	3982.90	-42.00	-13	PASS

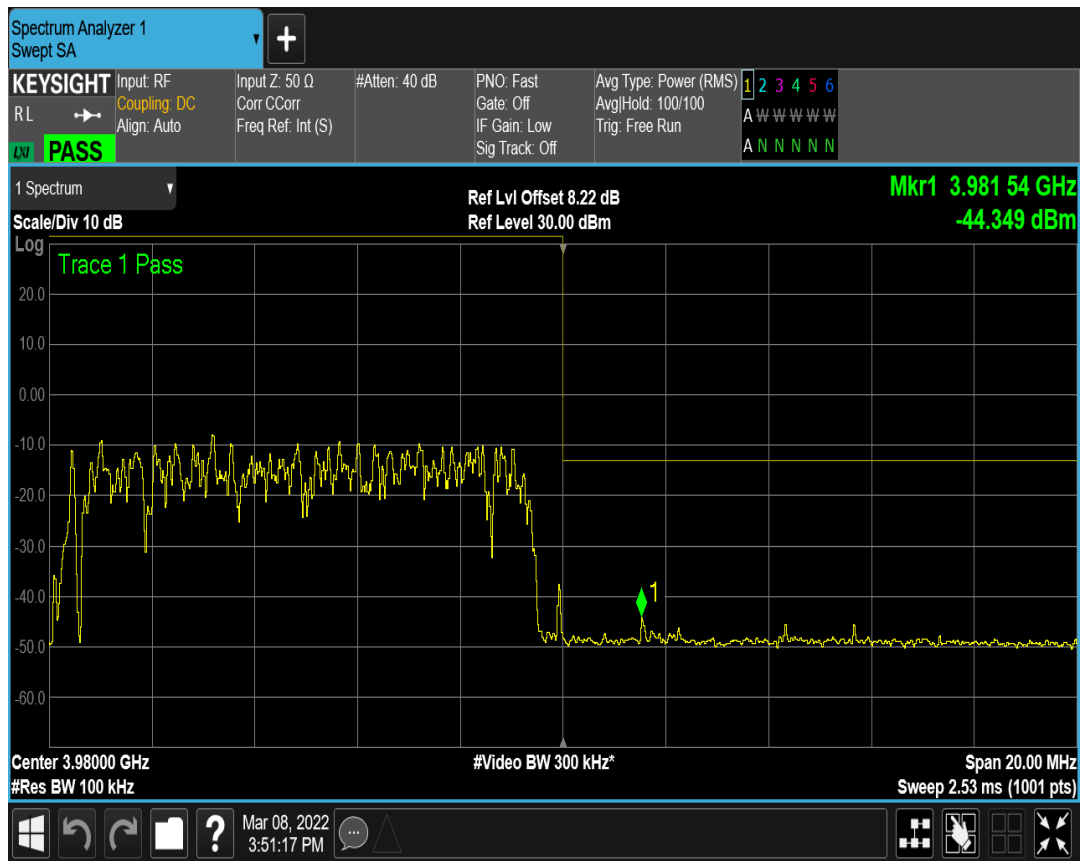
n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=647000 RB=50@0



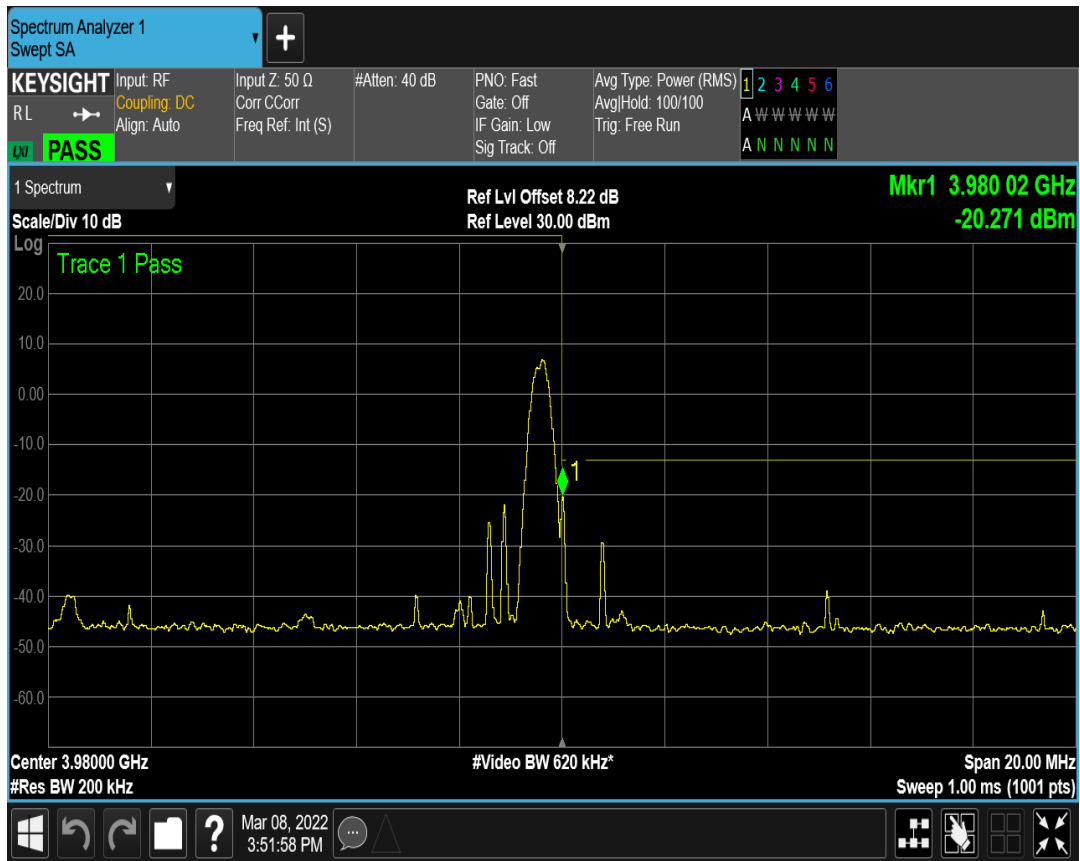
n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=647000 RB=1@0



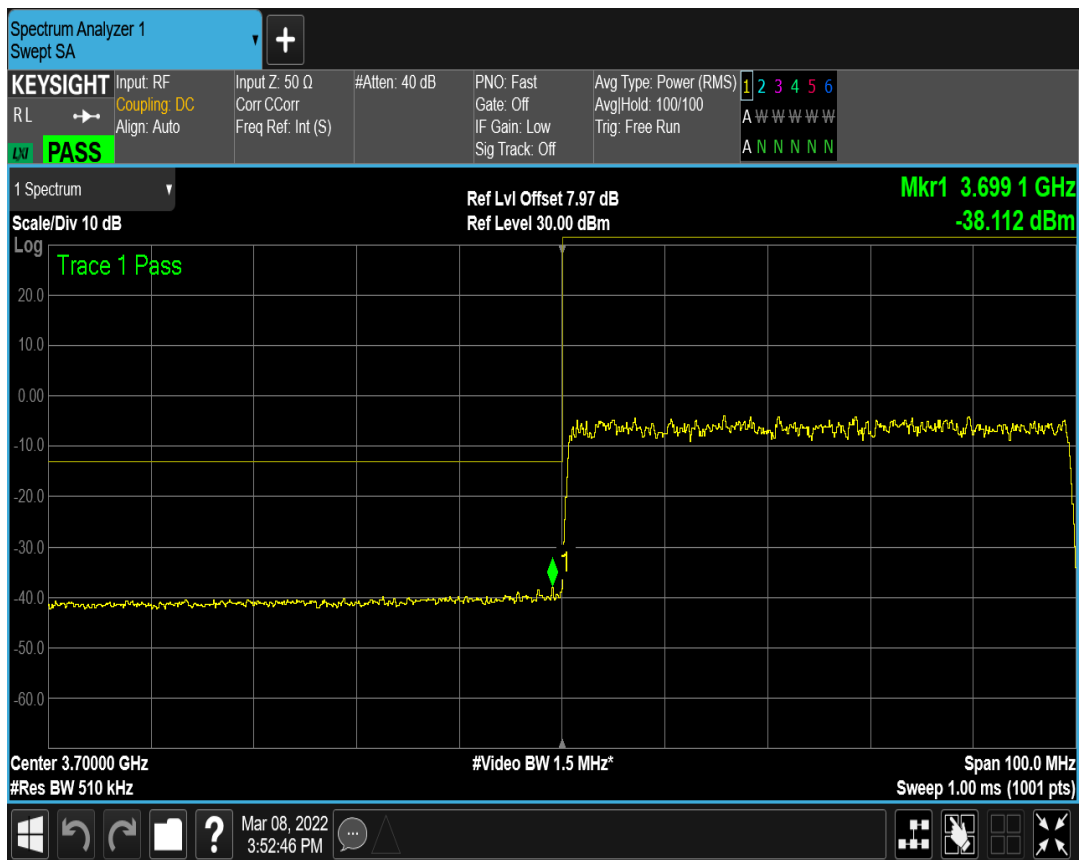
n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=665000 RB=50@0



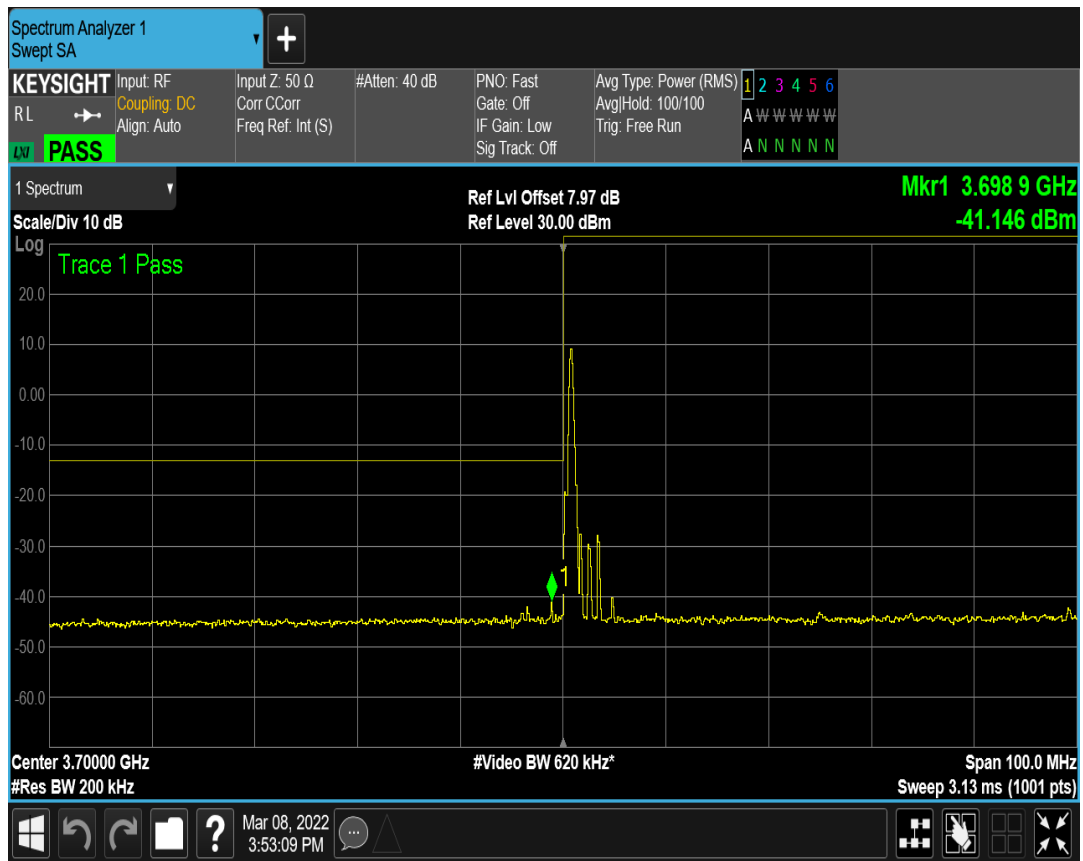
n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=665000 RB=1@51



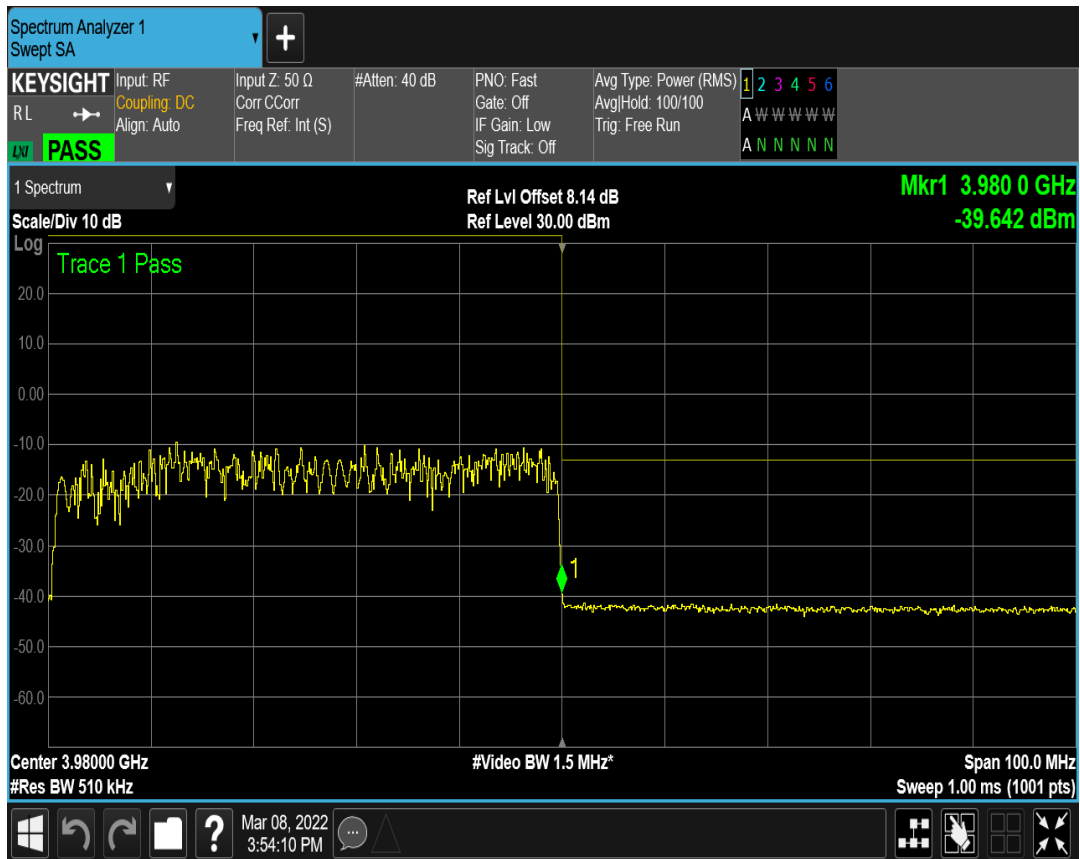
n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=648334 RB=270@0



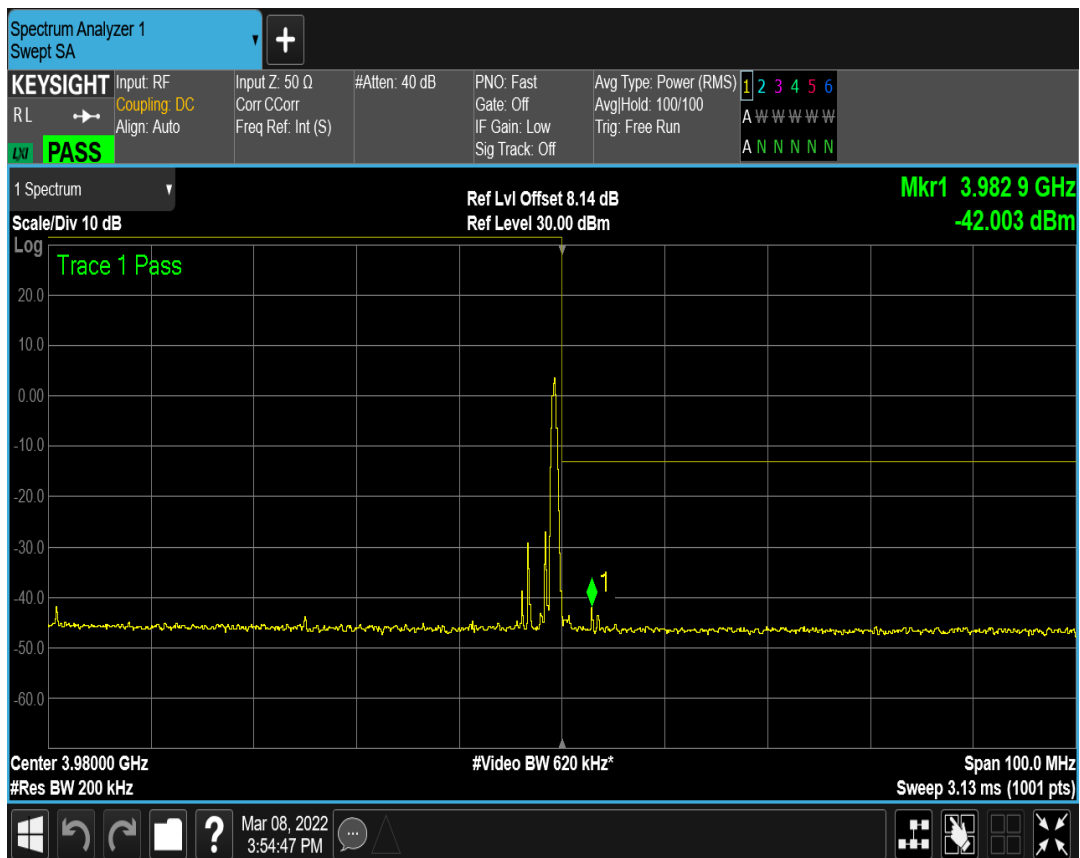
n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=648334 RB=1@0



n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=270@0



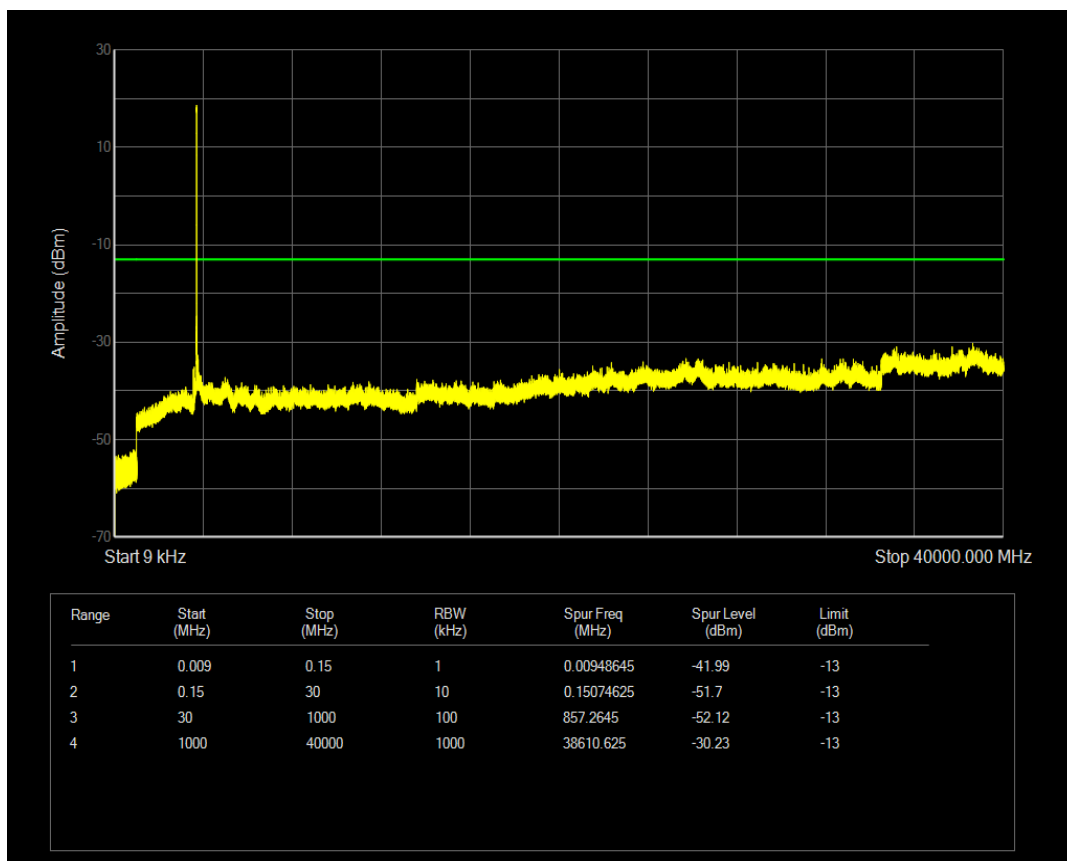
n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=1@269



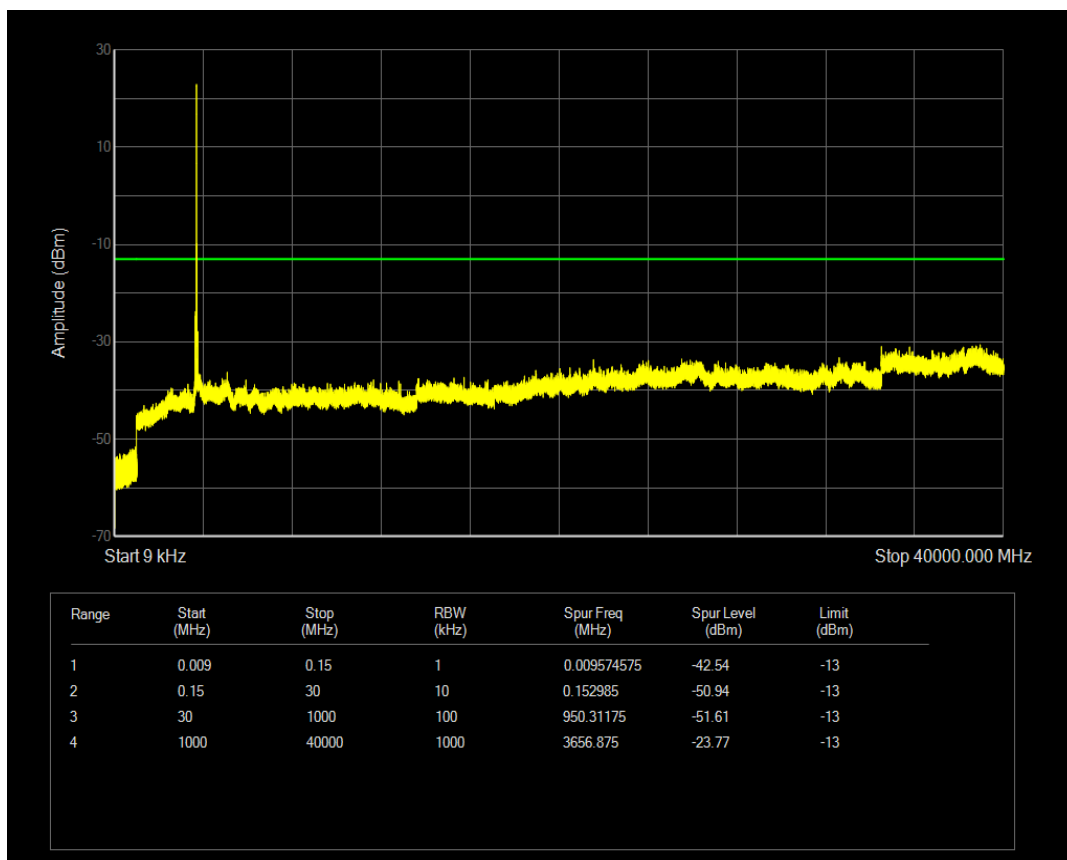
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3700-3980)	15	10	647000	50@0	DFT_QPSK	38610.63	-30.23	-13	PASS
n77(3700-3980)	15	10	647000	1@0	DFT_QPSK	3656.88	-23.77	-13	PASS
n77(3700-3980)	15	10	647000	1@51	DFT_QPSK	38504.35	-31.01	-13	PASS
n77(3700-3980)	15	10	656000	50@0	DFT_QPSK	38670.10	-30.85	-13	PASS
n77(3700-3980)	15	10	656000	1@0	DFT_QPSK	38664.25	-30.88	-13	PASS
n77(3700-3980)	15	10	656000	1@51	DFT_QPSK	38564.80	-30.42	-13	PASS
n77(3700-3980)	15	10	665000	50@0	DFT_QPSK	38689.60	-30.06	-13	PASS
n77(3700-3980)	15	10	665000	1@0	DFT_QPSK	38777.35	-29.65	-13	PASS
n77(3700-3980)	15	10	665000	1@51	DFT_QPSK	38065.60	-30.12	-13	PASS
n77(3700-3980)	15	50	648334	270@0	DFT_QPSK	38599.90	-30.09	-13	PASS
n77(3700-3980)	15	50	648334	1@0	DFT_QPSK	38842.68	-30.30	-13	PASS
n77(3700-3980)	15	50	648334	1@269	DFT_QPSK	38605.75	-30.33	-13	PASS
n77(3700-3980)	15	50	656000	270@0	DFT_QPSK	38731.53	-31.08	-13	PASS
n77(3700-3980)	15	50	656000	1@0	DFT_QPSK	38092.90	-28.95	-13	PASS
n77(3700-3980)	15	50	656000	1@269	DFT_QPSK	38818.30	-30.25	-13	PASS
n77(3700-3980)	15	50	663666	270@0	DFT_QPSK	38070.48	-29.80	-13	PASS
n77(3700-3980)	15	50	663666	1@0	DFT_QPSK	38537.50	-30.59	-13	PASS
n77(3700-3980)	15	50	663666	1@269	DFT_QPSK	38900.20	-29.56	-13	PASS

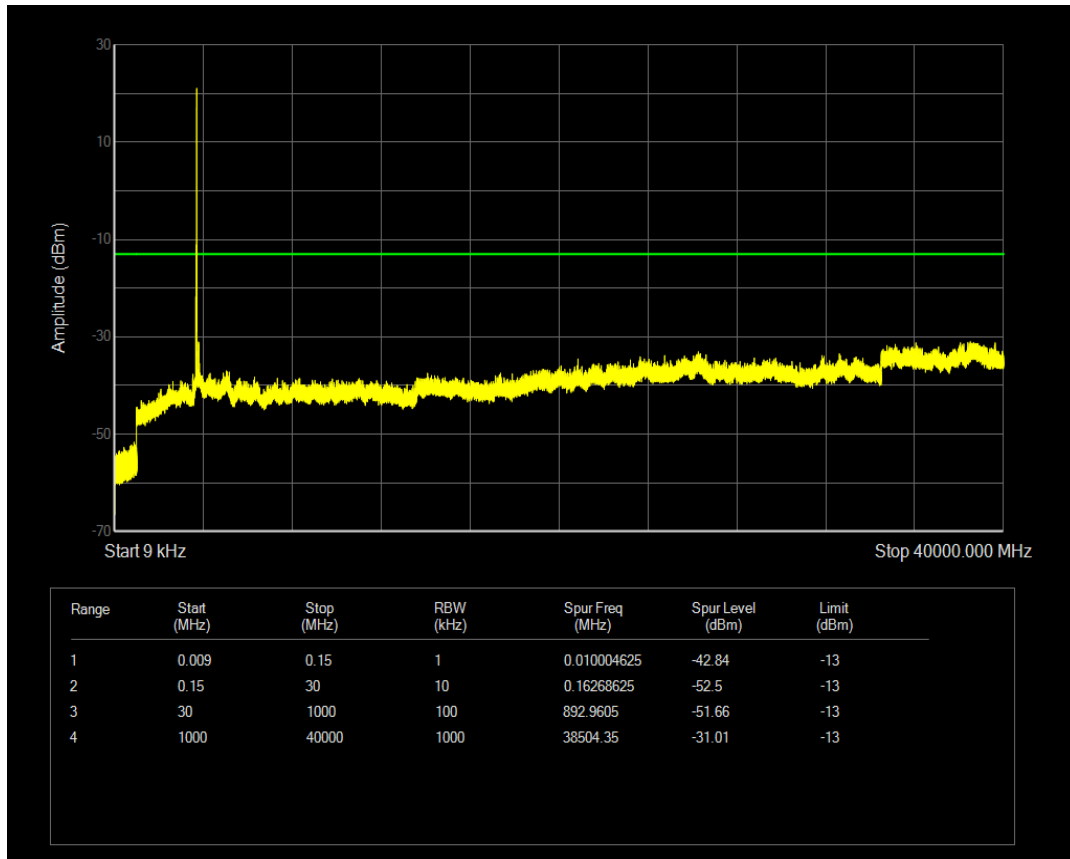
n77(3700-3980) SCS=15kHz DFT_QPSK BW=10MHz Channel=647000 RB=50@0



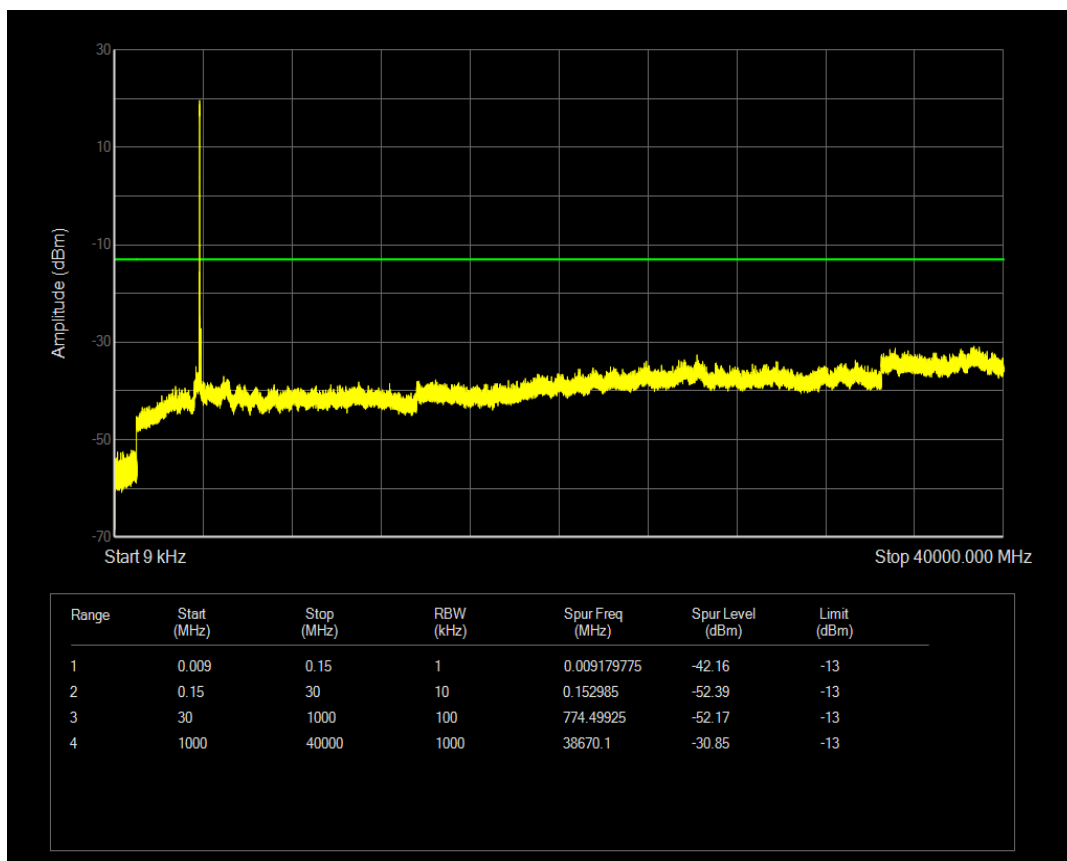
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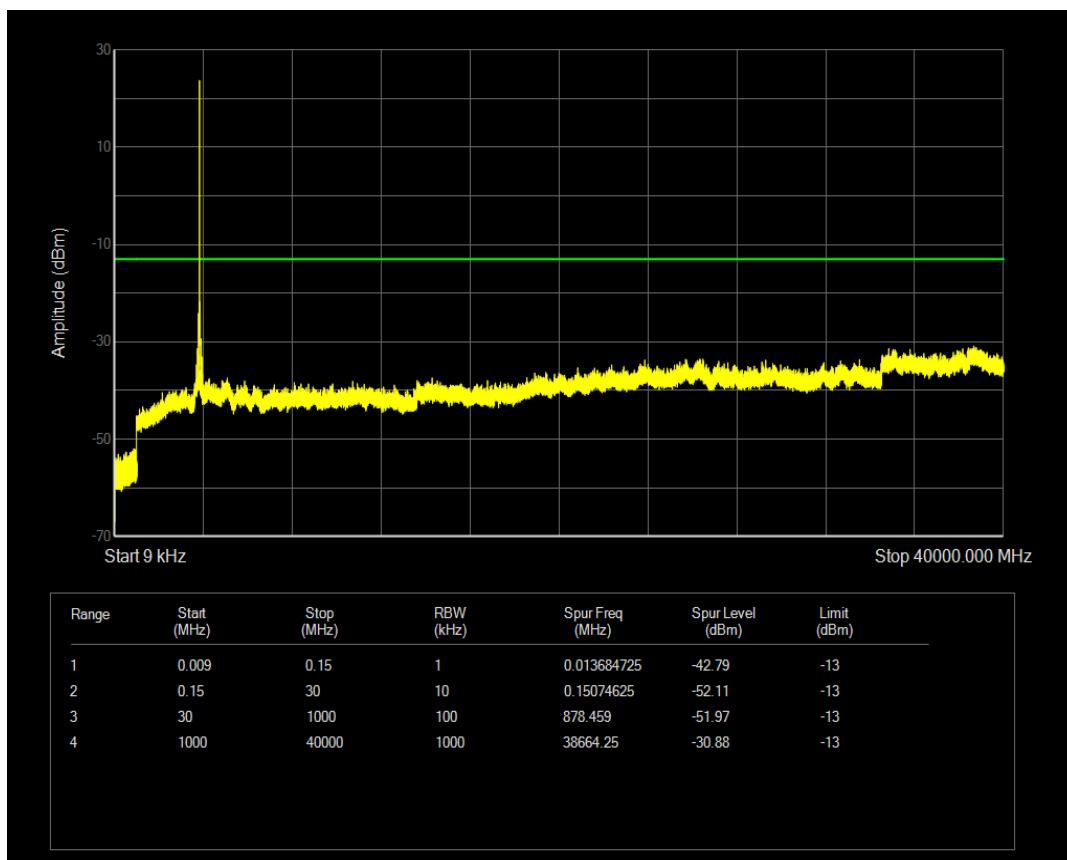
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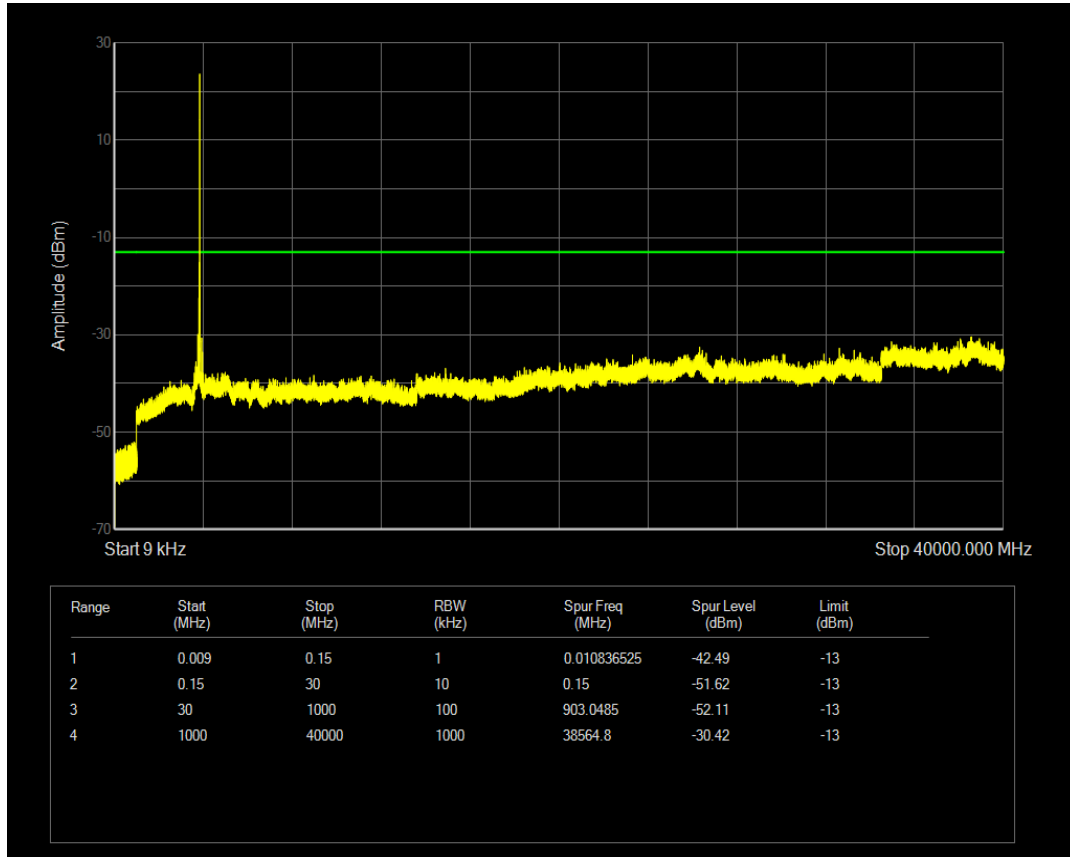
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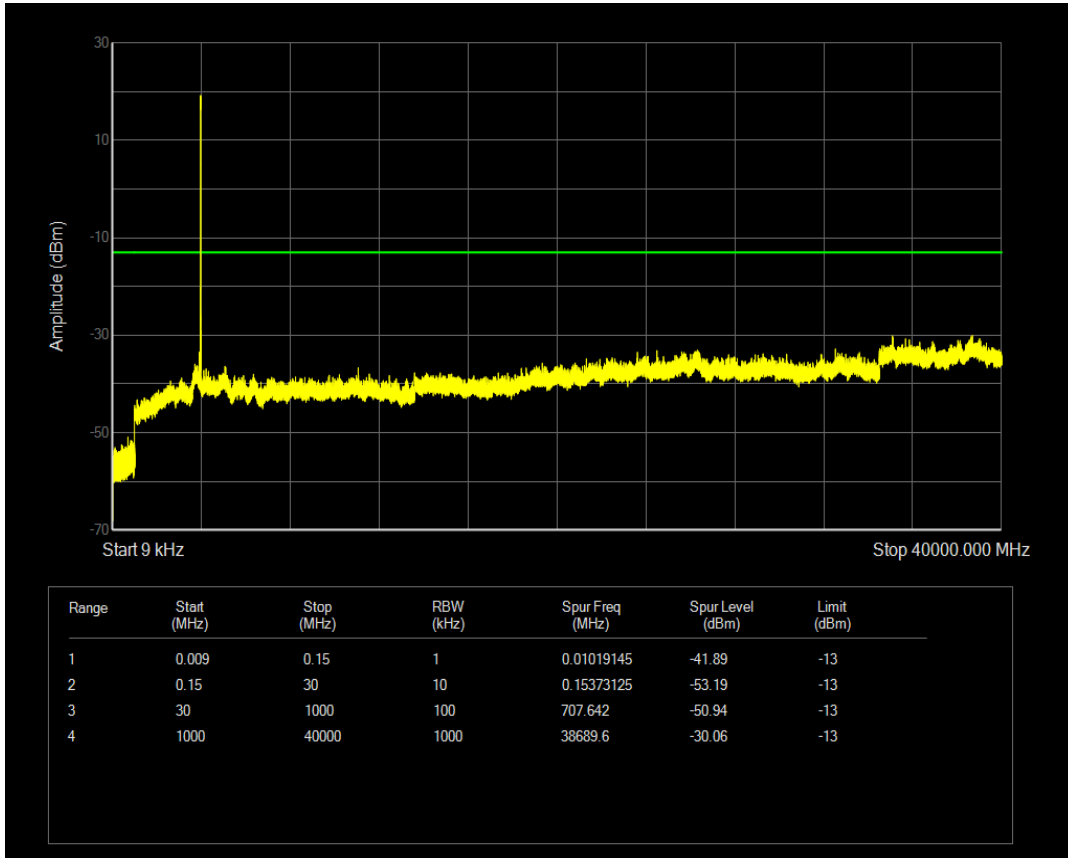
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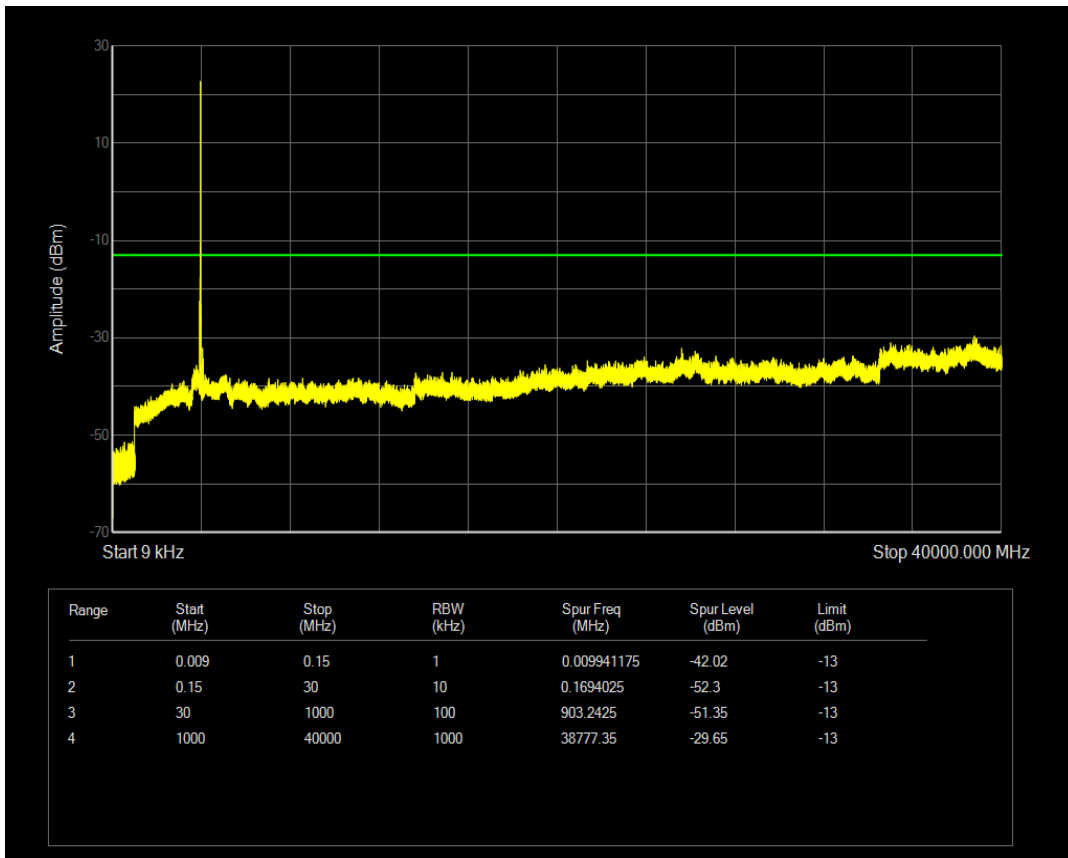
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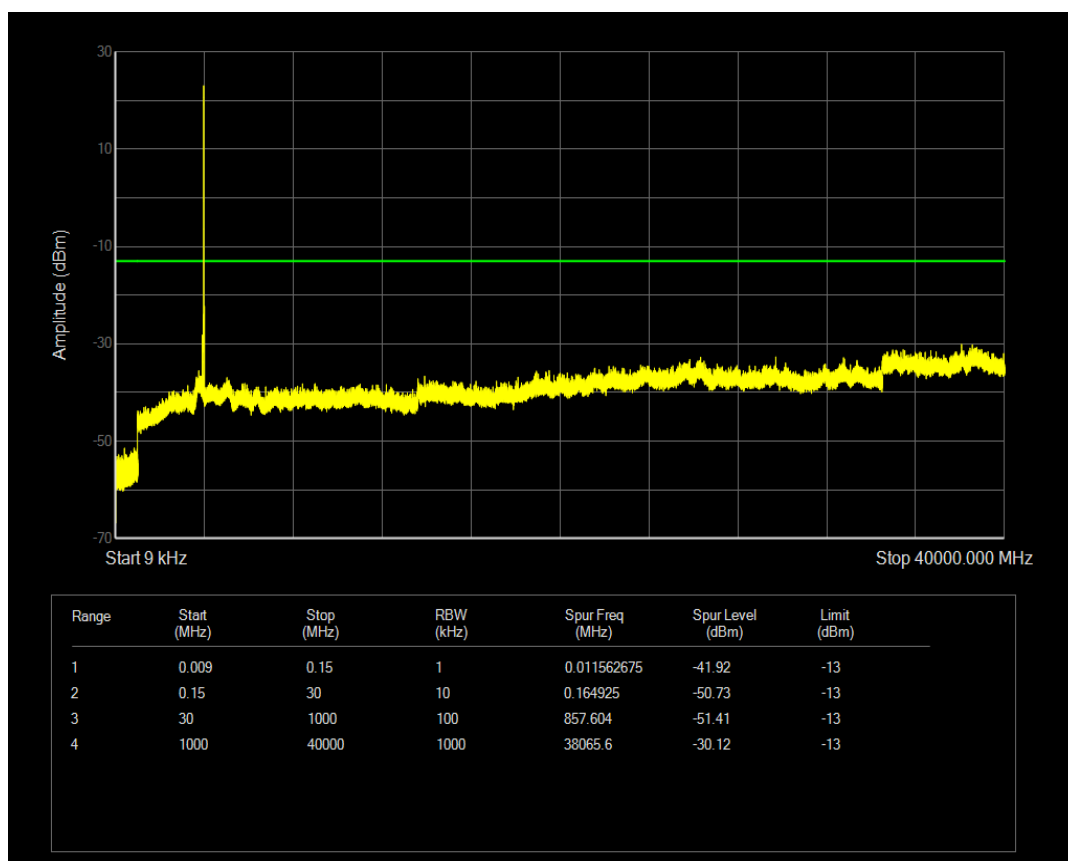
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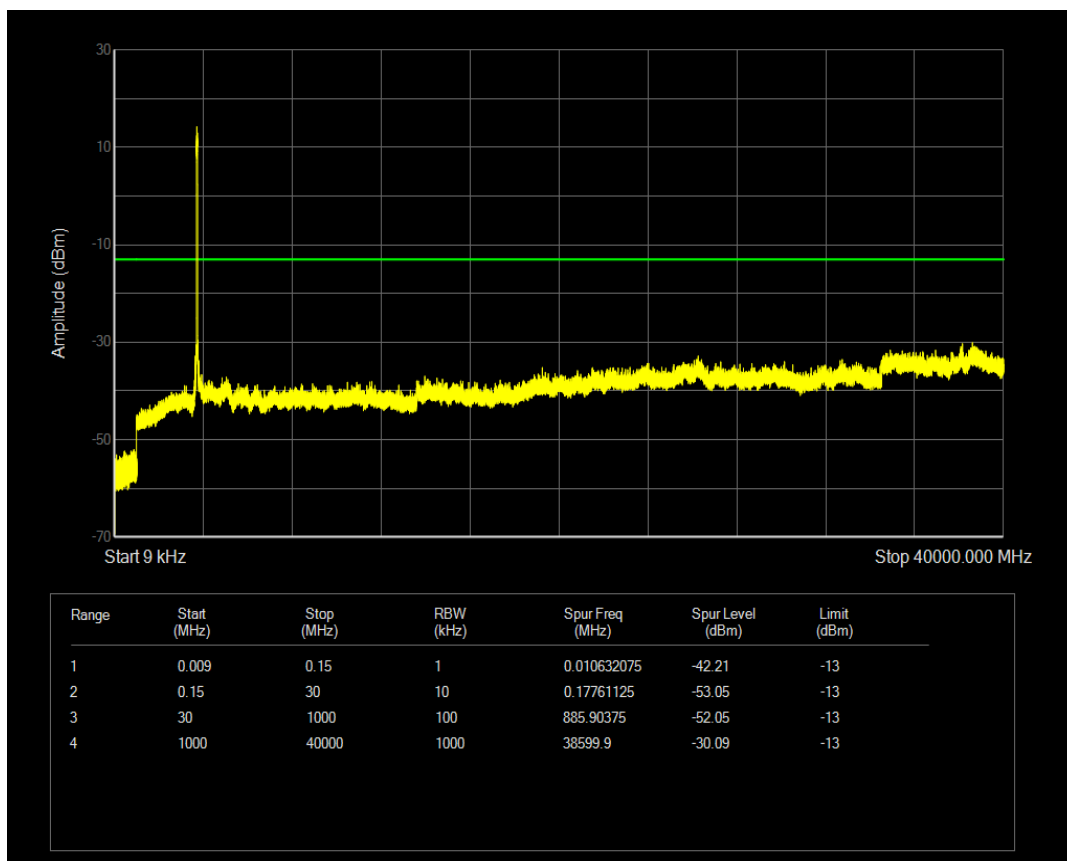
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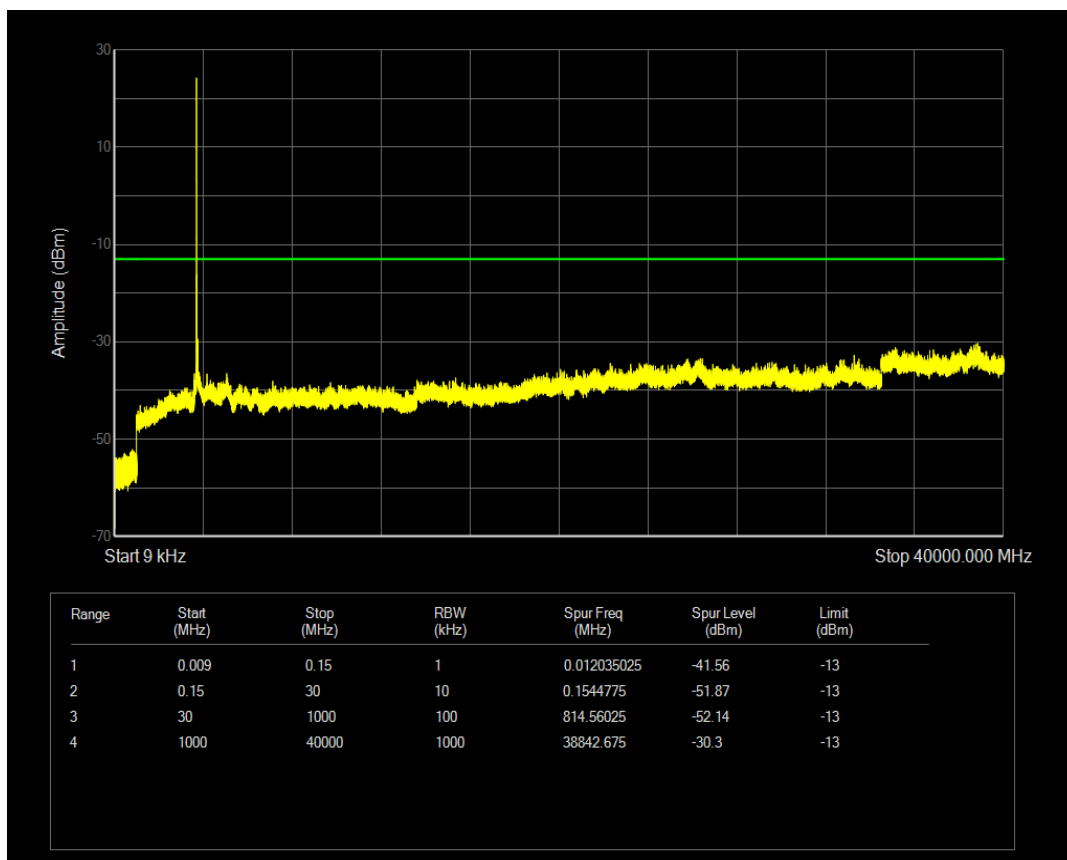
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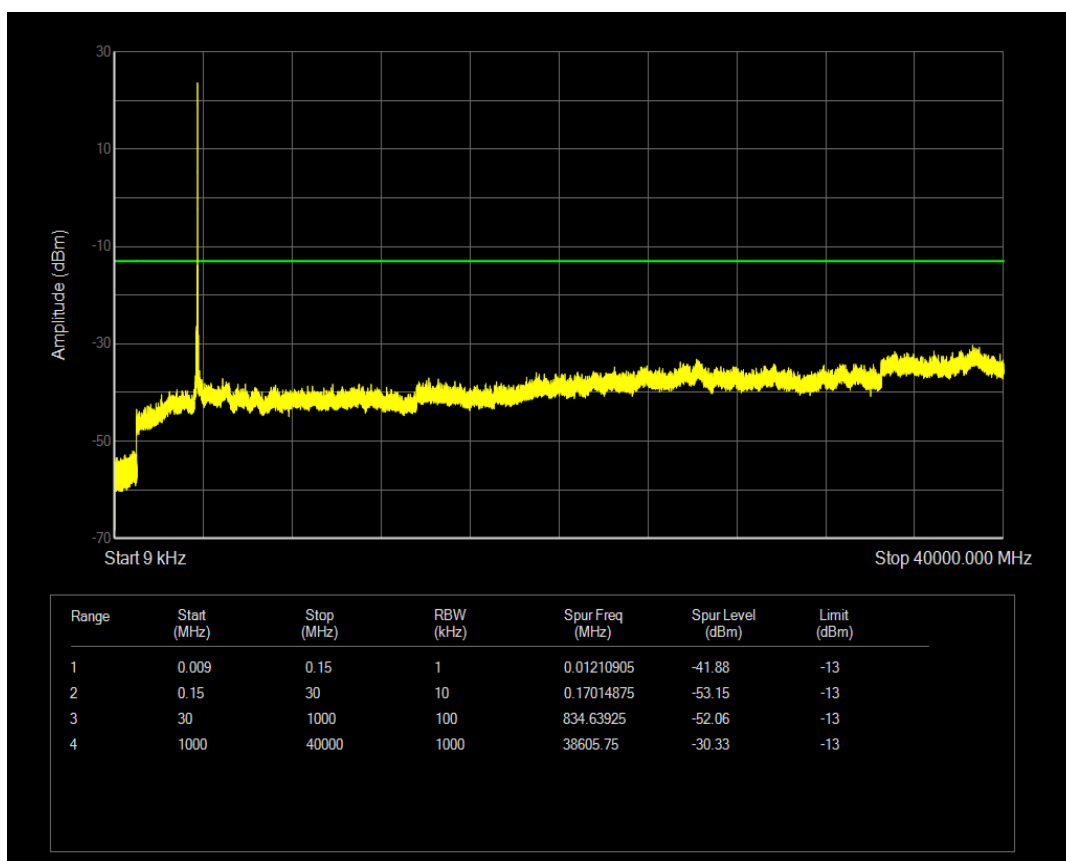
n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=648334 RB=270@0



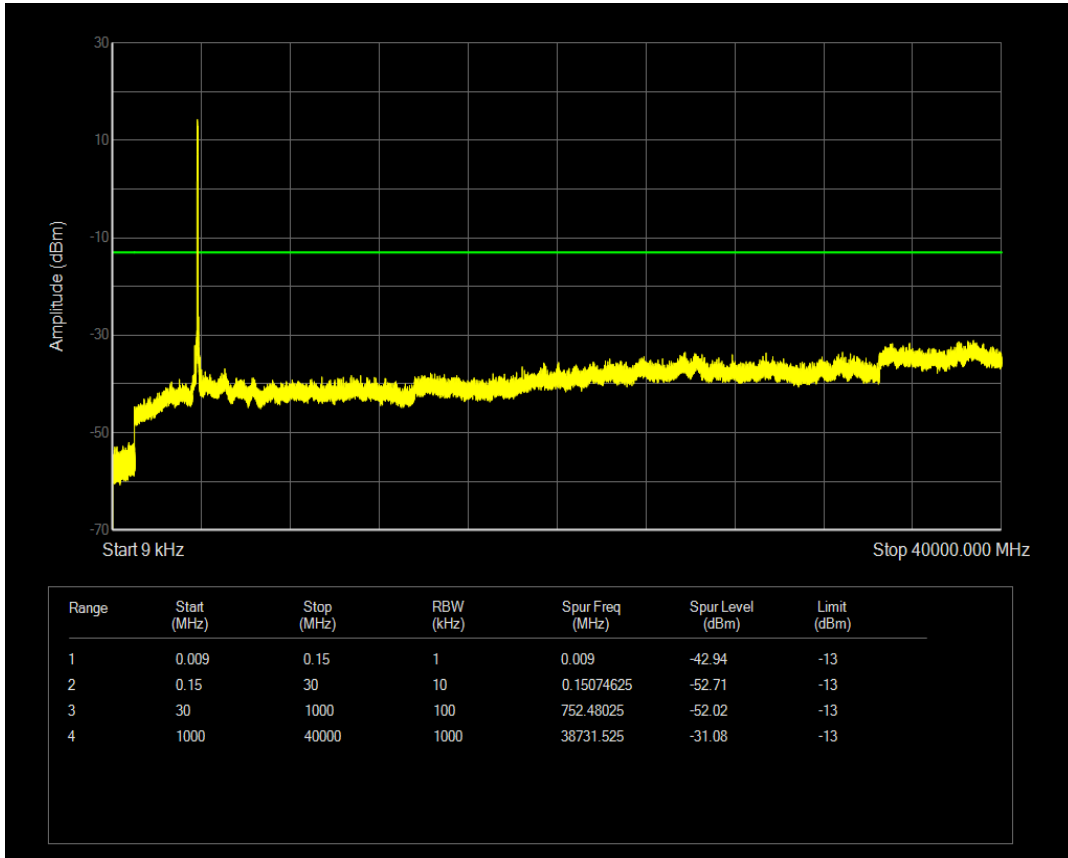
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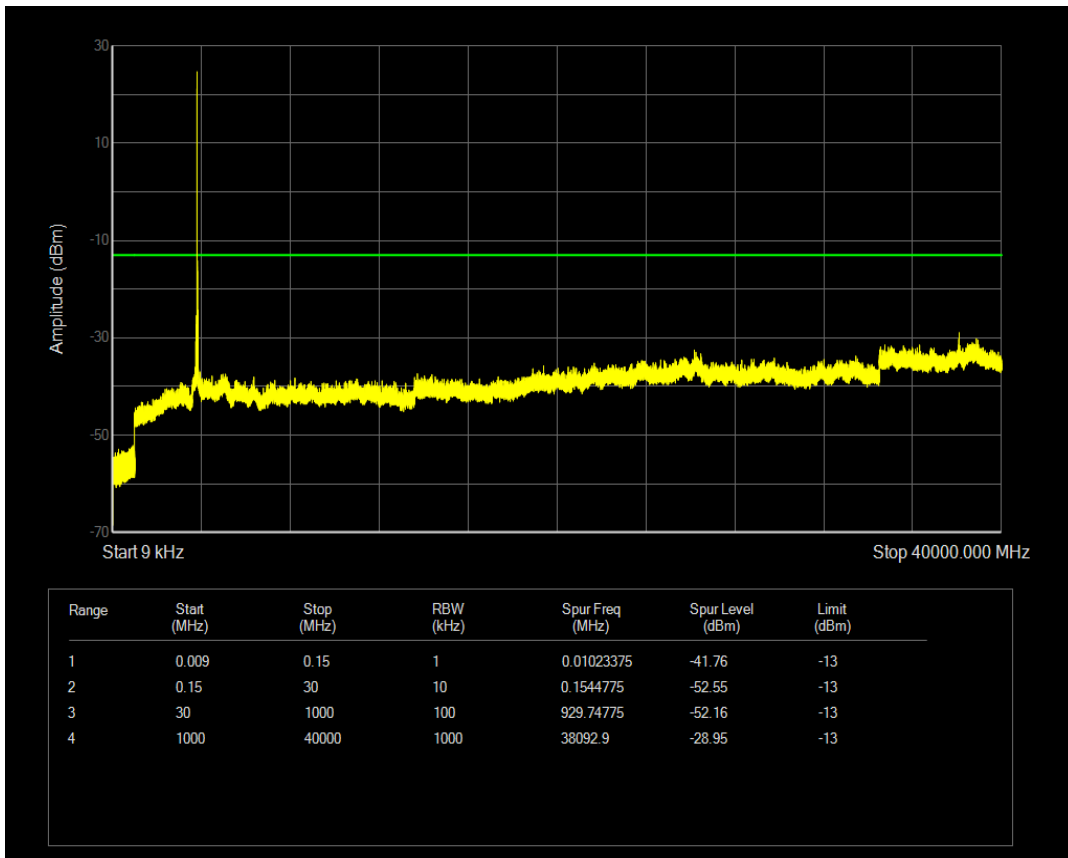
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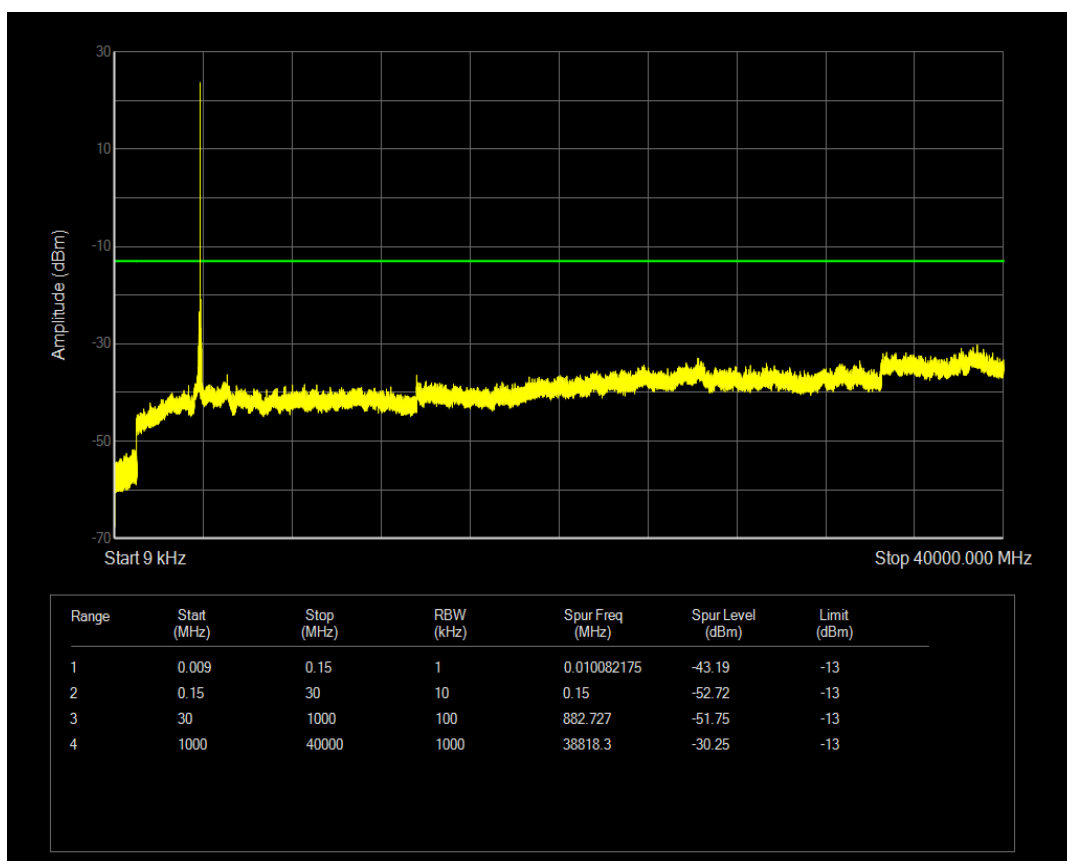
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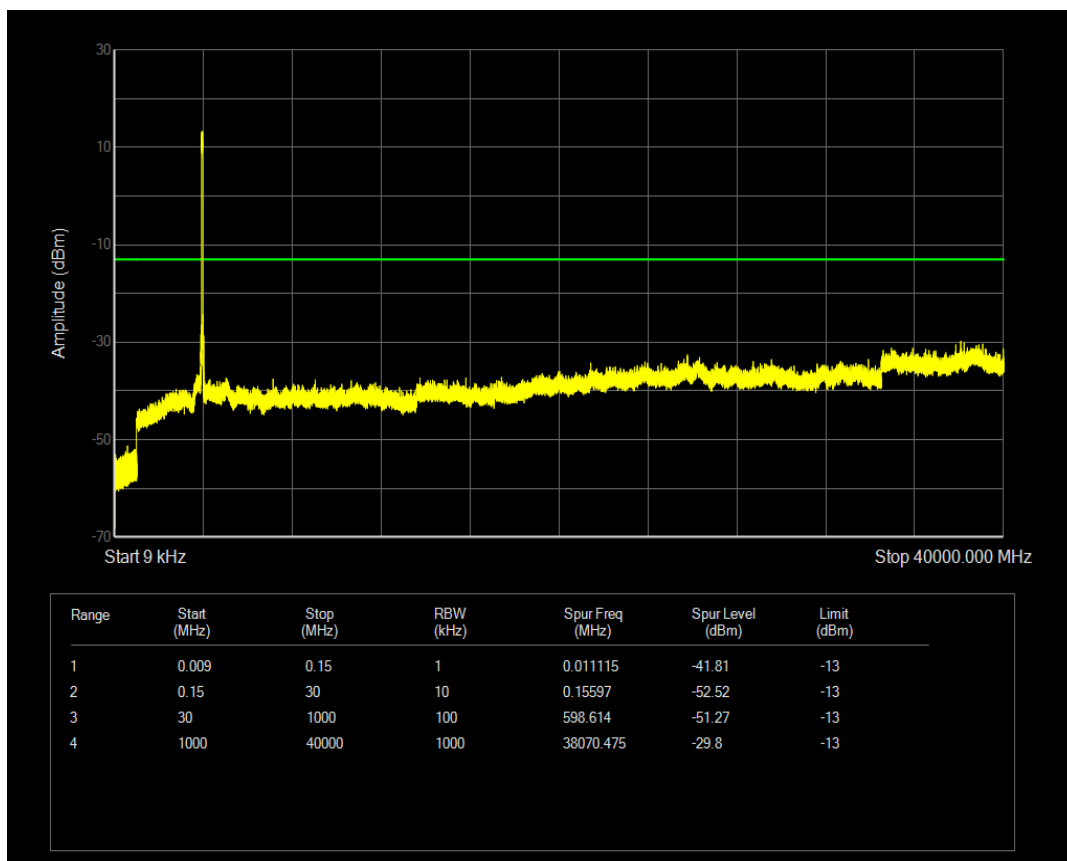
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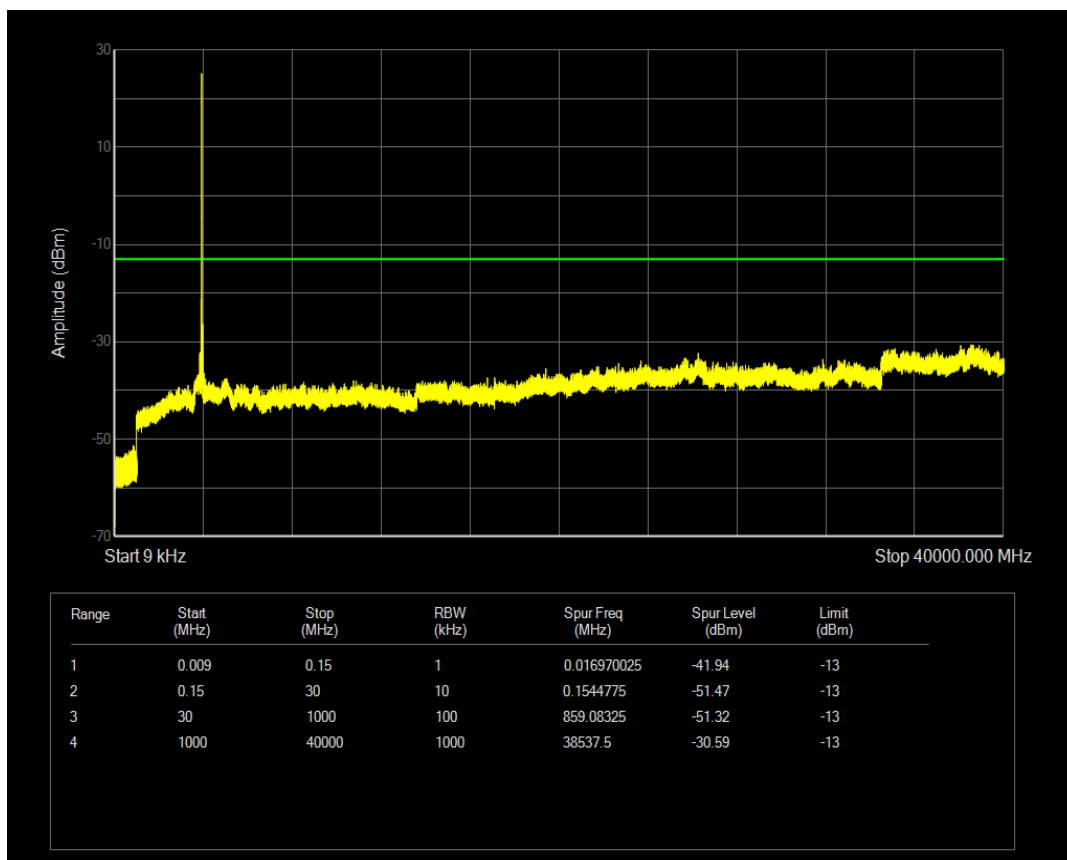
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n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=270@0



n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=1@0



n77(3700-3980) SCS=15kHz DFT_QPSK BW=50MHz Channel=663666 RB=1@269

