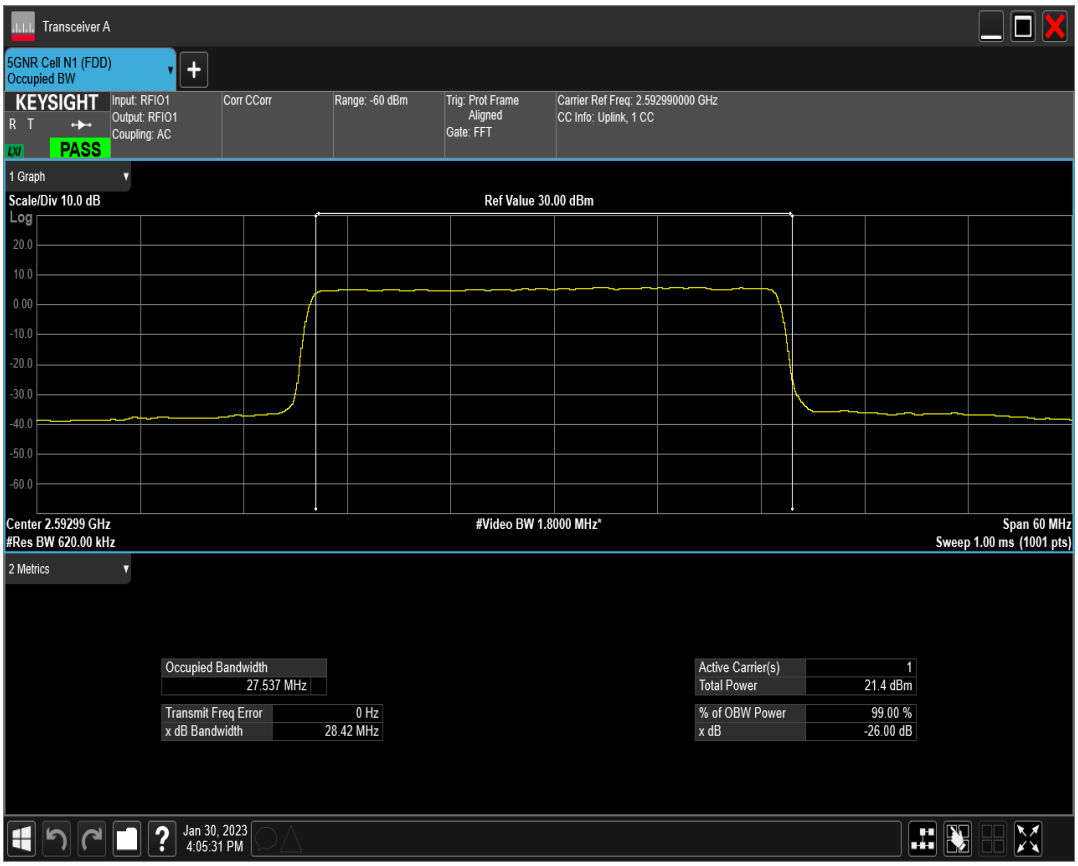
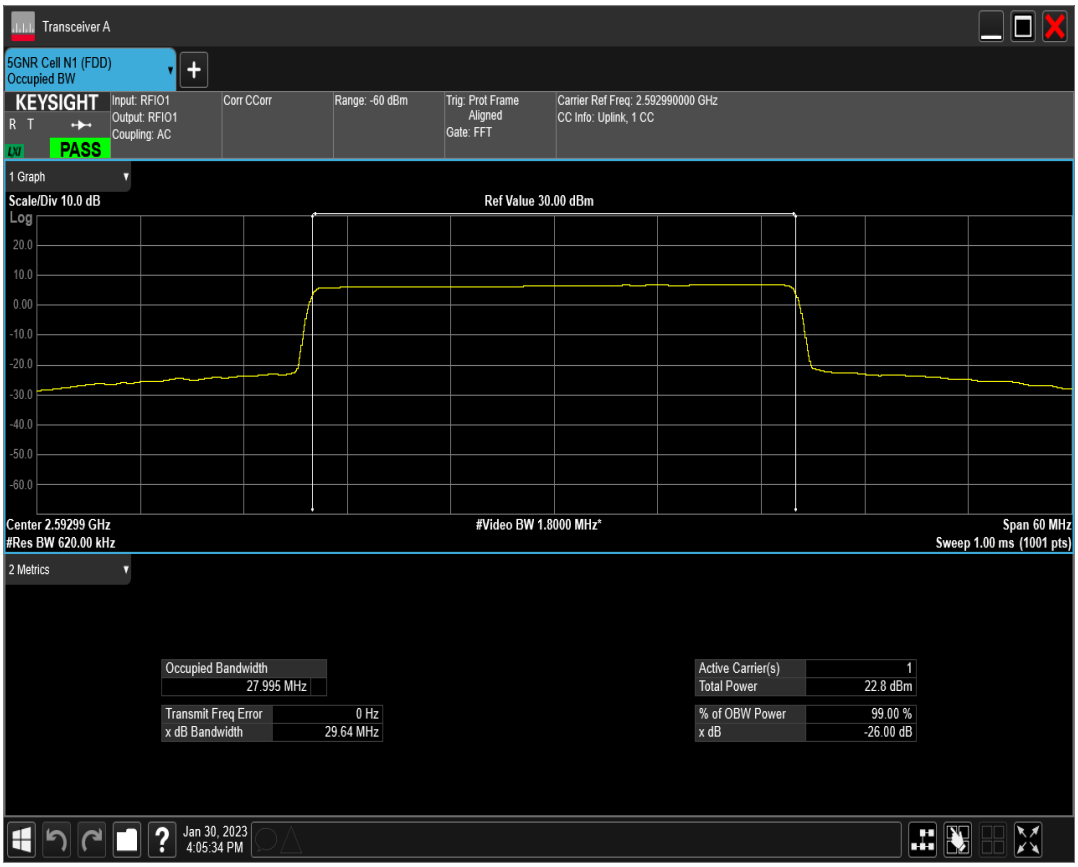
n41 SCS=30kHz DFT_QAM256 BW=30MHz Channel=518598 RB=75@0



n41 SCS=30kHz CP_QPSK BW=30MHz Channel=518598 RB=78@0



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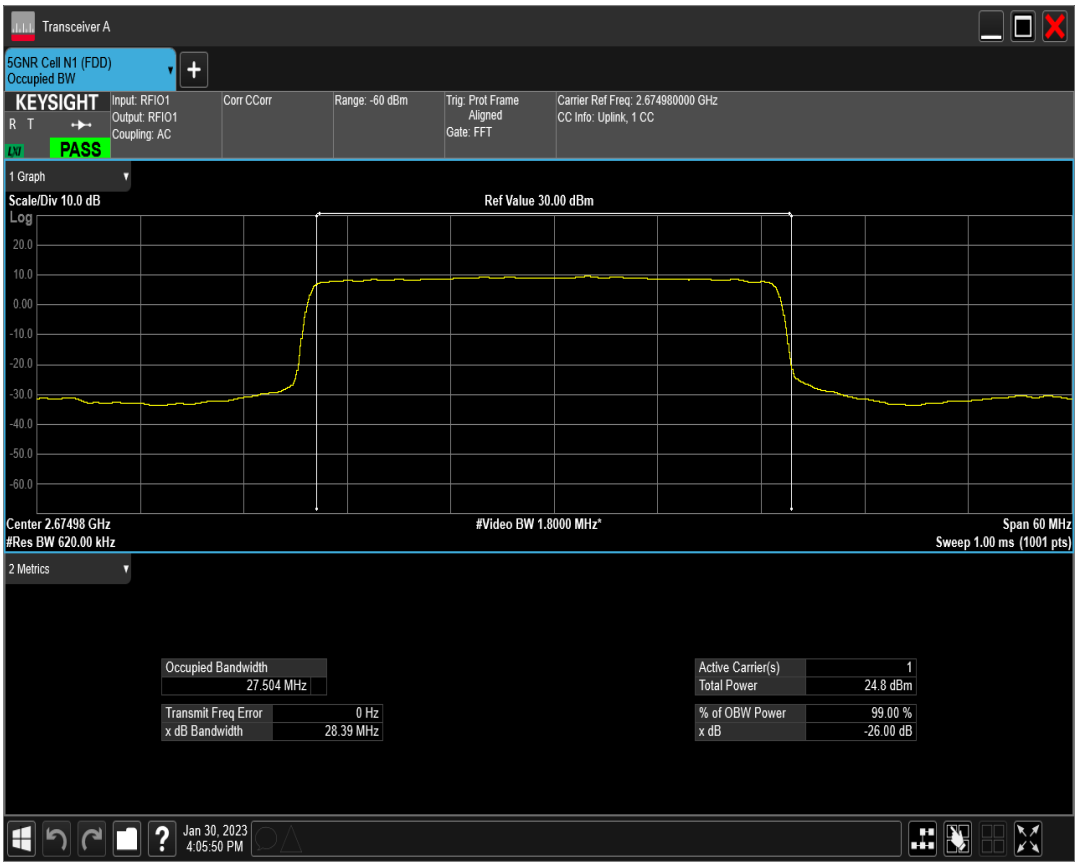
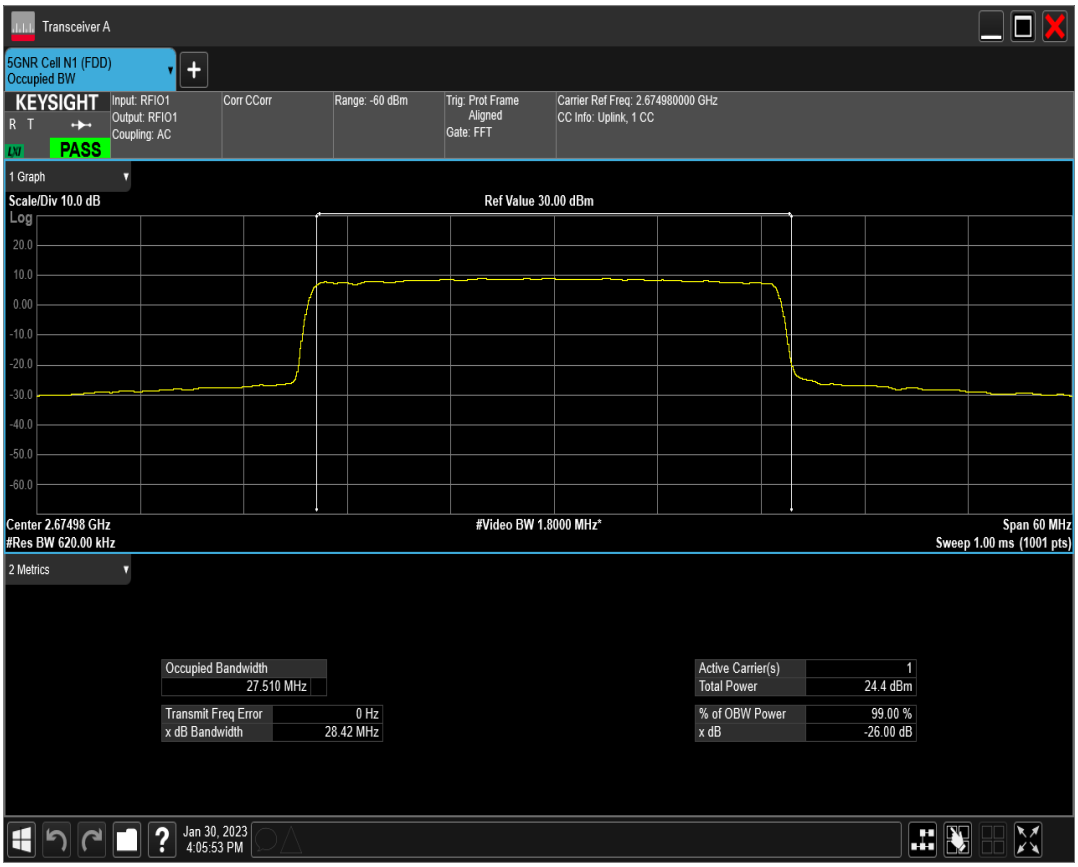
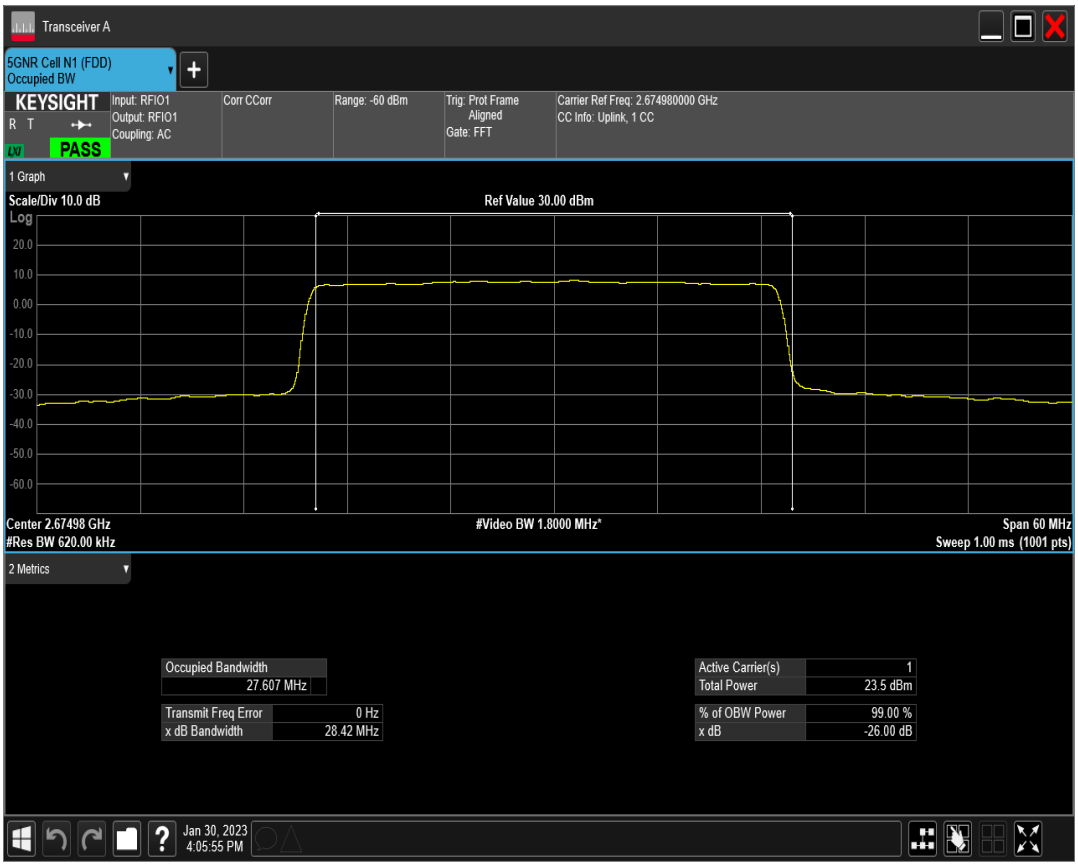


n41 SCS=30kHz DFT_QPSK BW=30MHz Channel=534996 RB=75@0



n41 SCS=30kHz DFT_QAM16 BW=30MHz Channel=534996 RB=75@0



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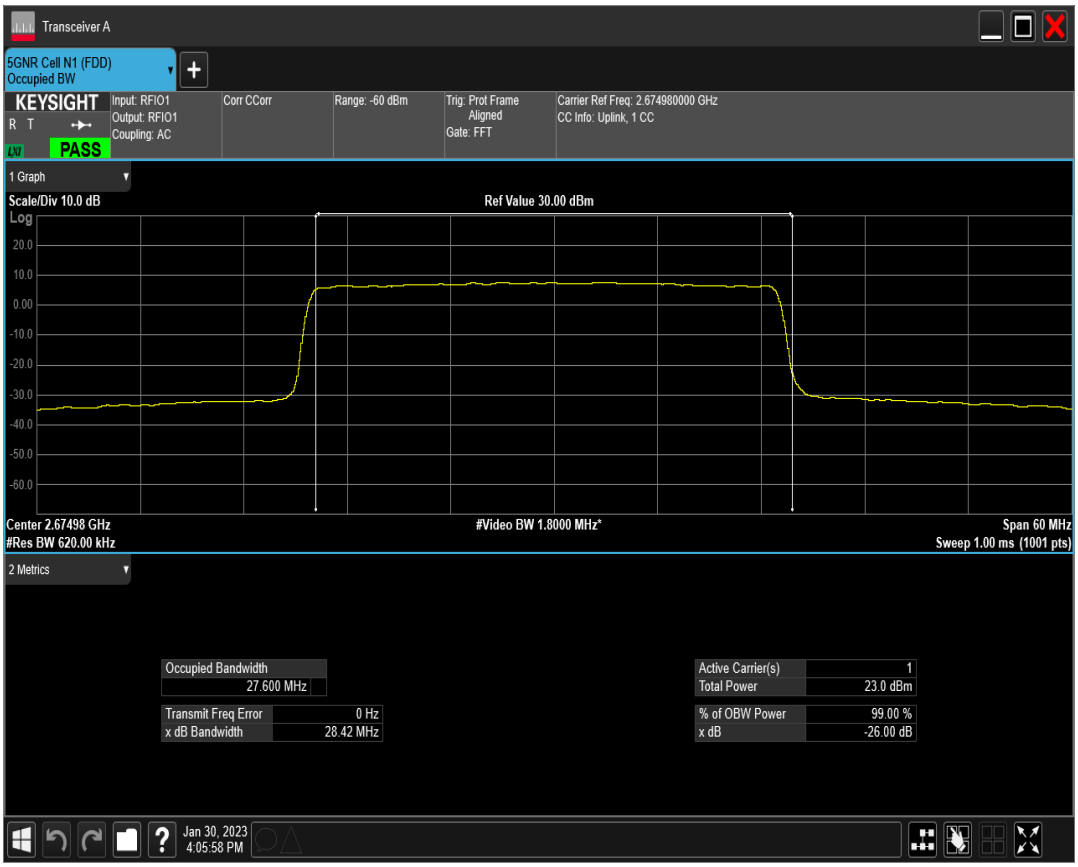

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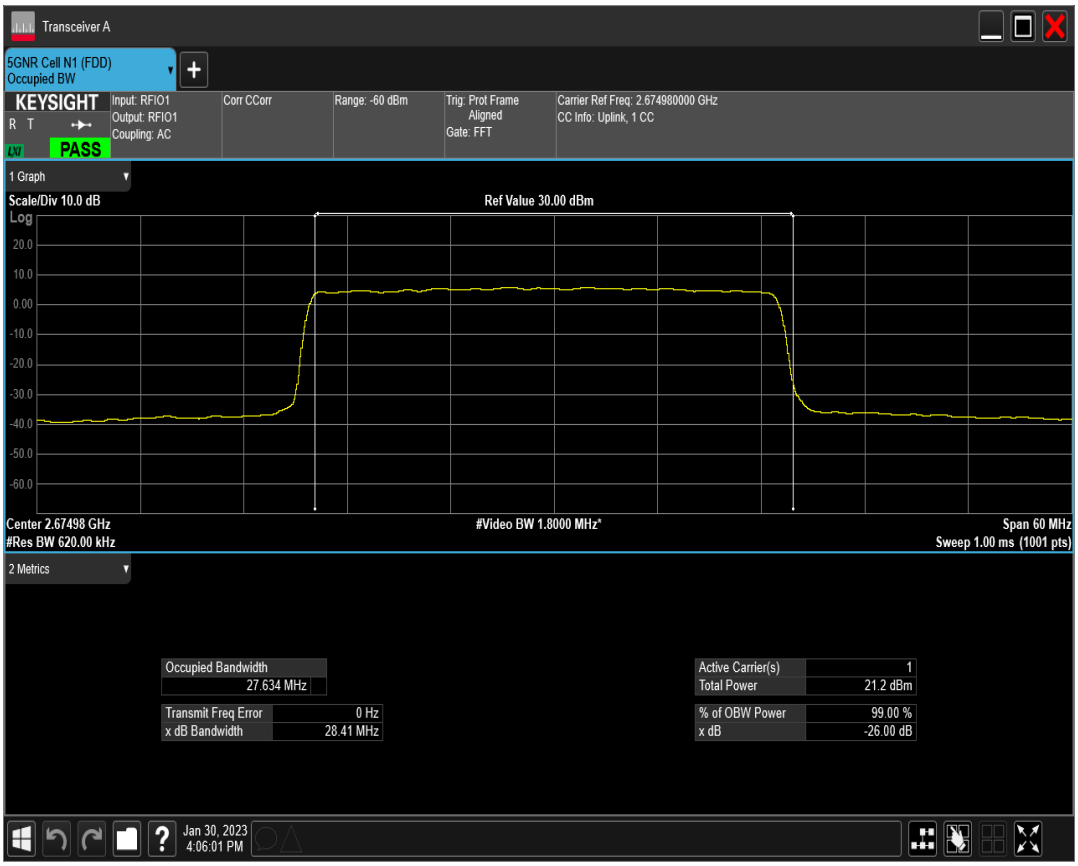
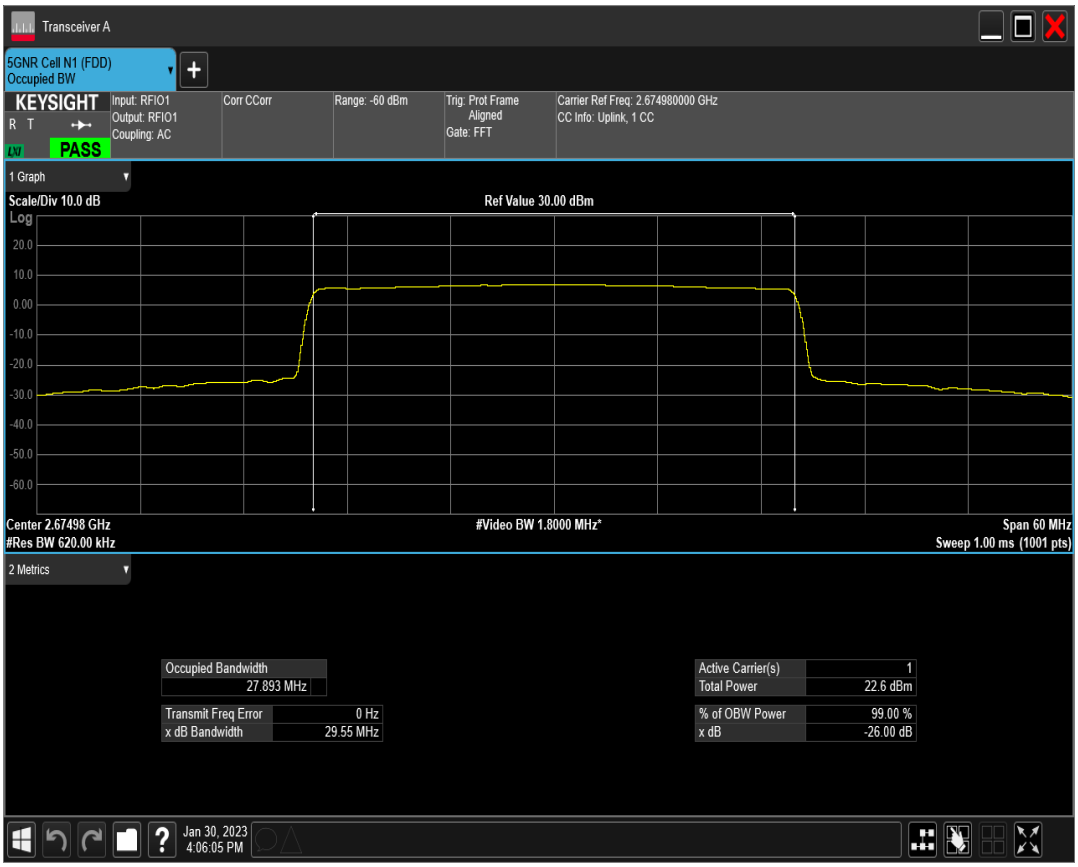
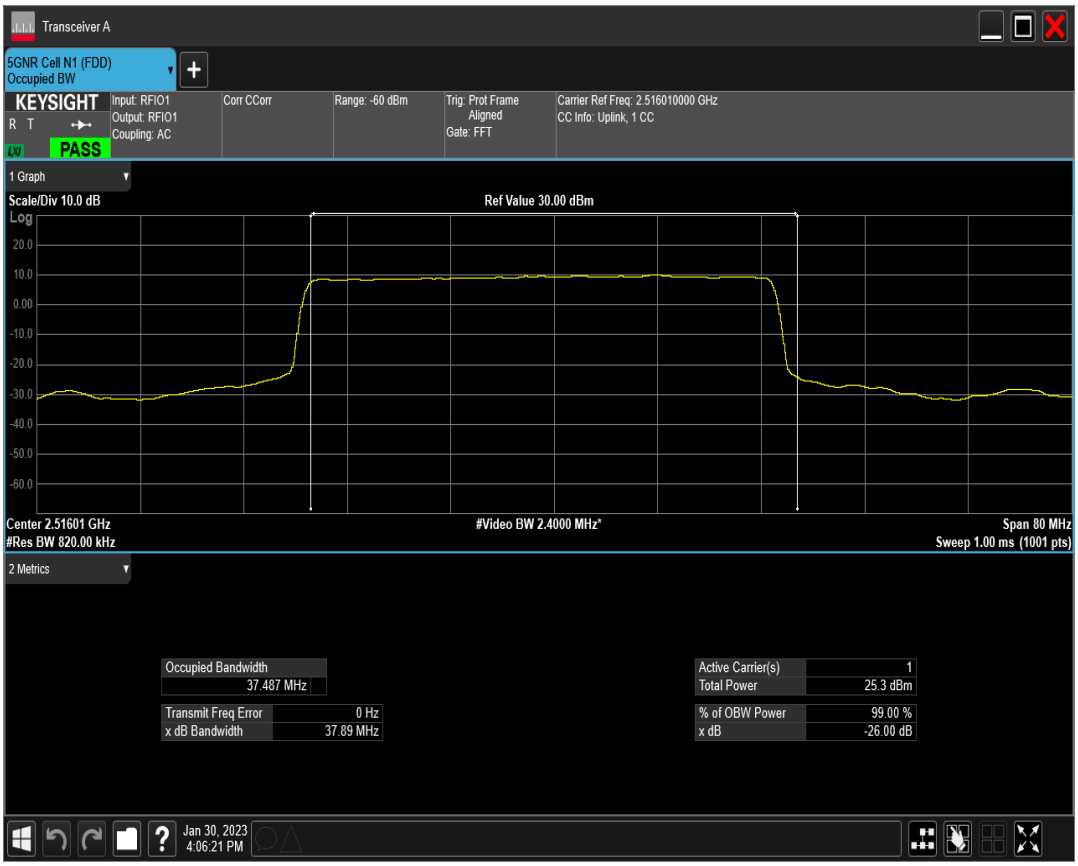


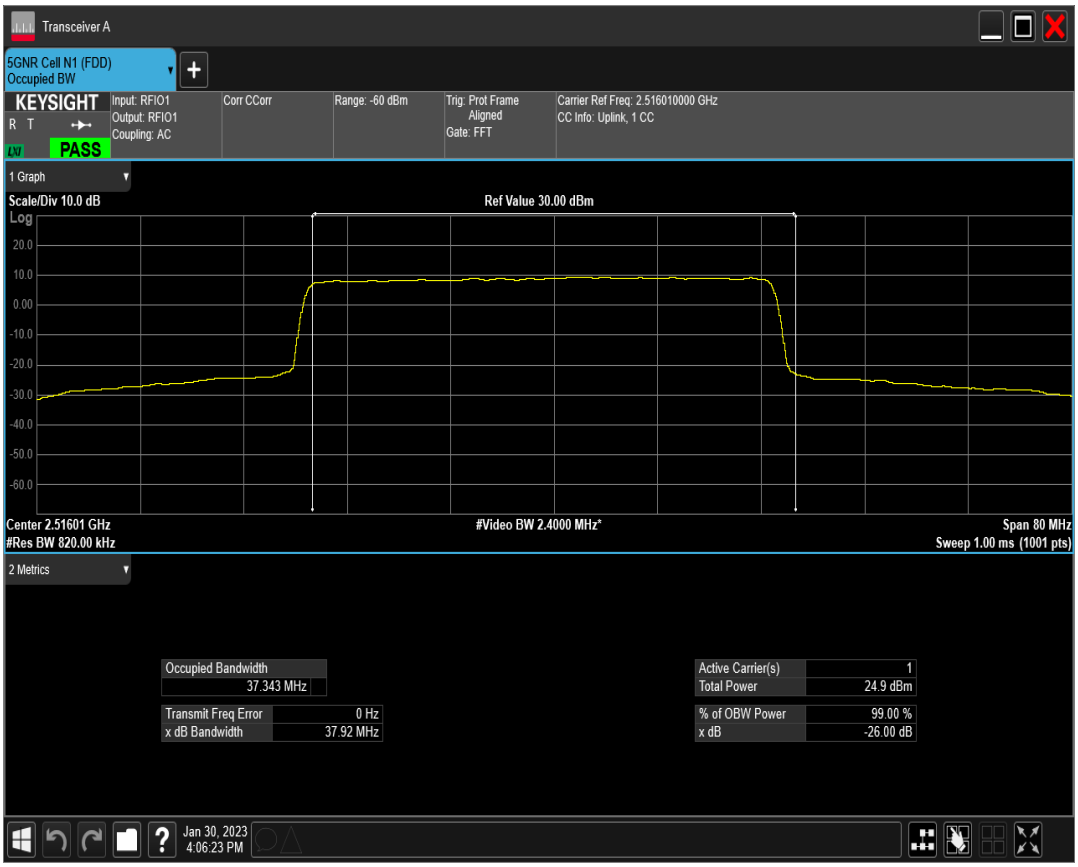
n41 SCS=30kHz CP_QPSK BW=30MHz Channel=534996 RB=78@0



n41 SCS=30kHz DFT_BPSK BW=40MHz Channel=503202 RB=100@0



n41 SCS=30kHz DFT_QPSK BW=40MHz Channel=503202 RB=100@0



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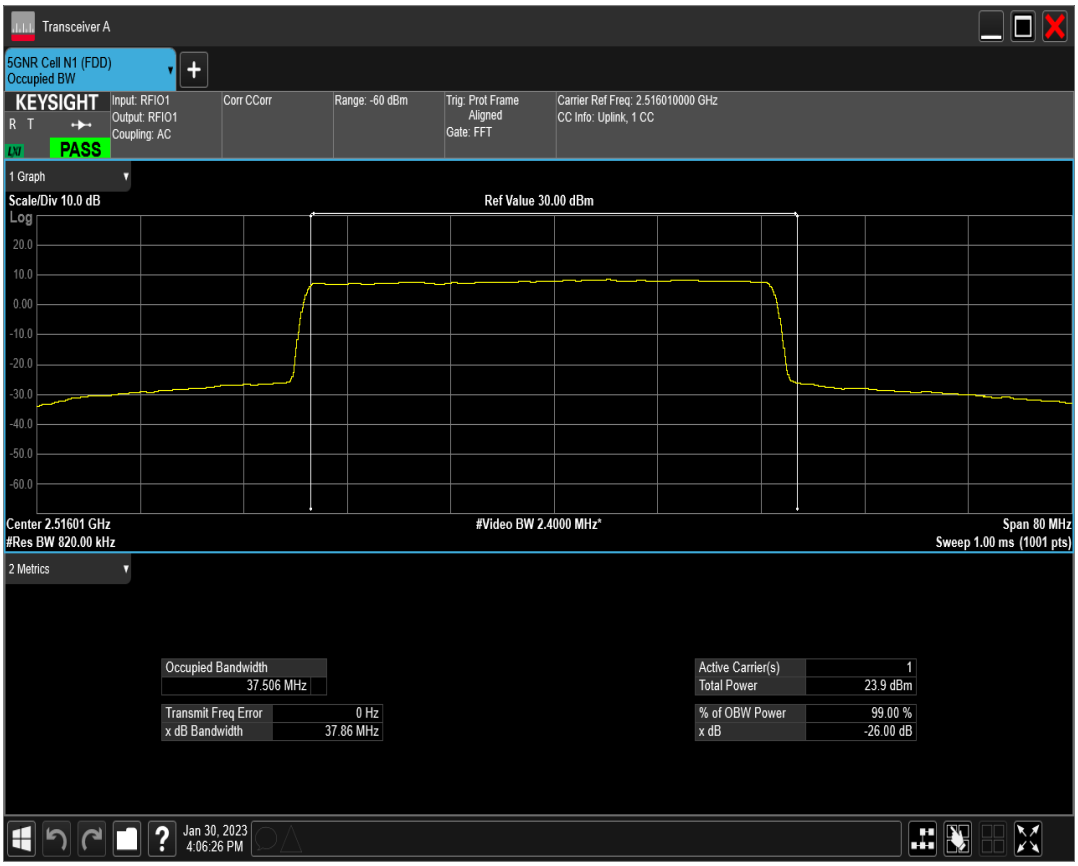

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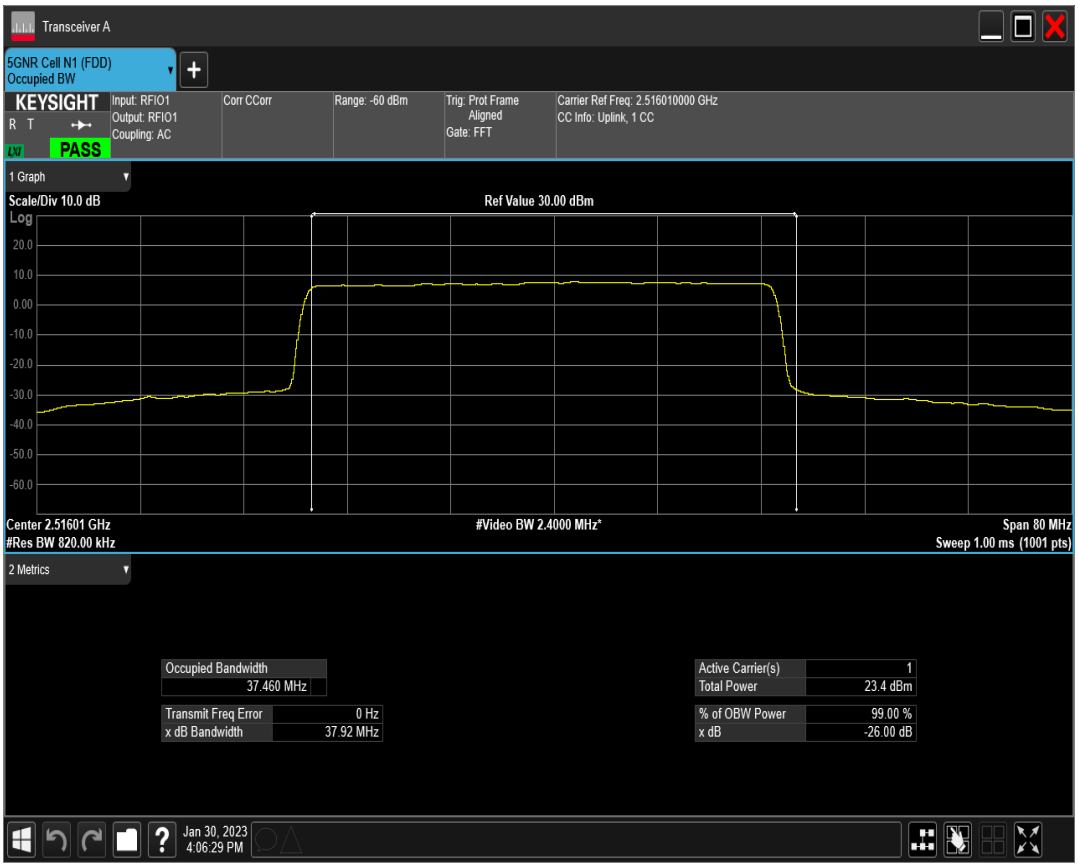

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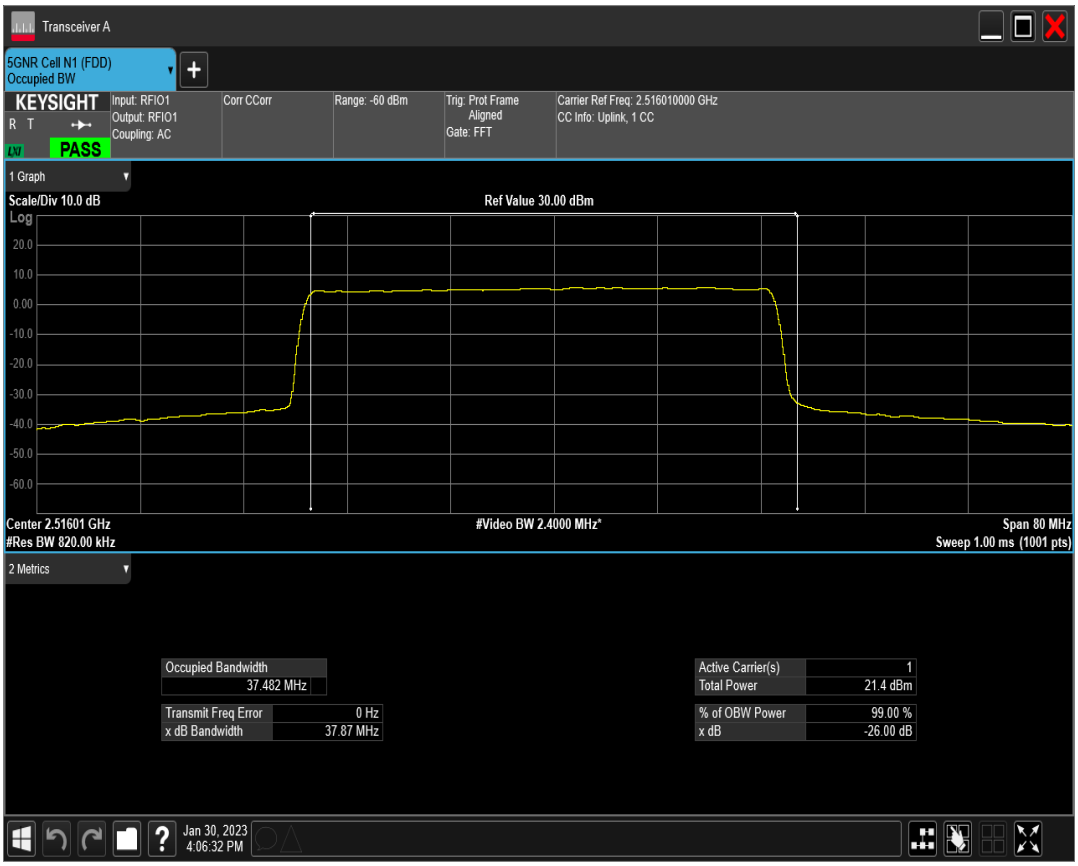
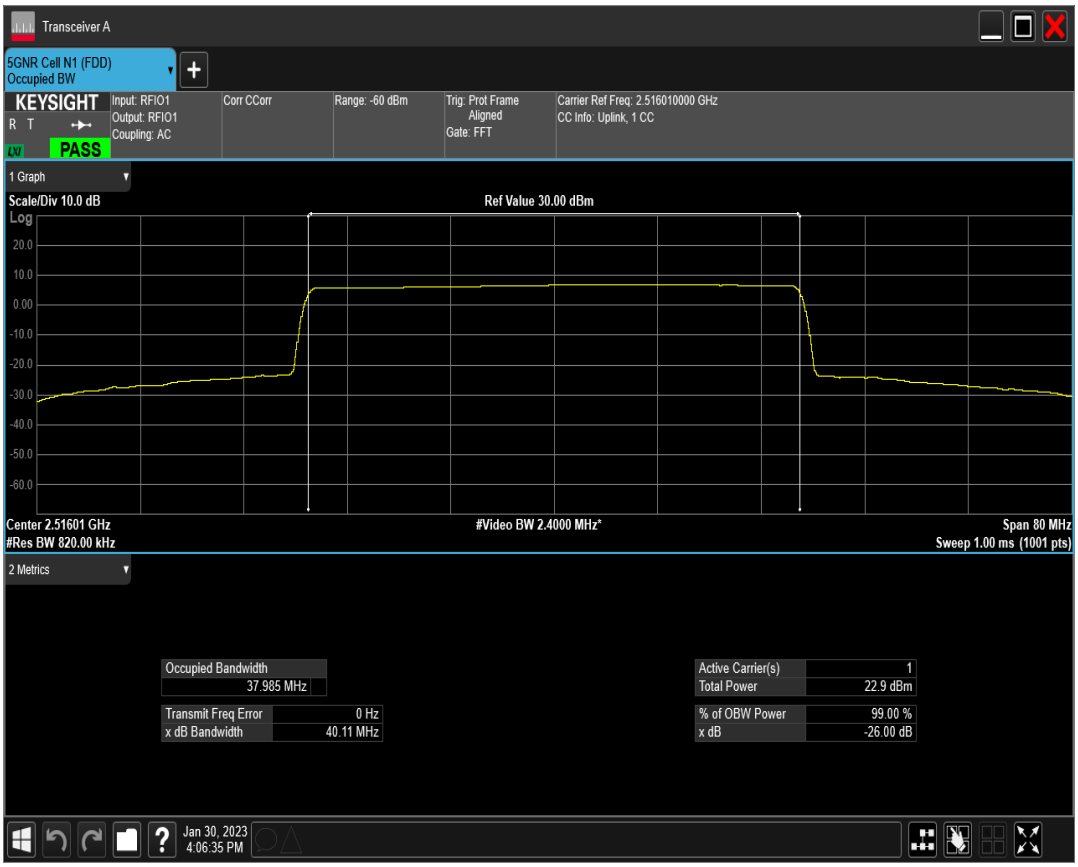
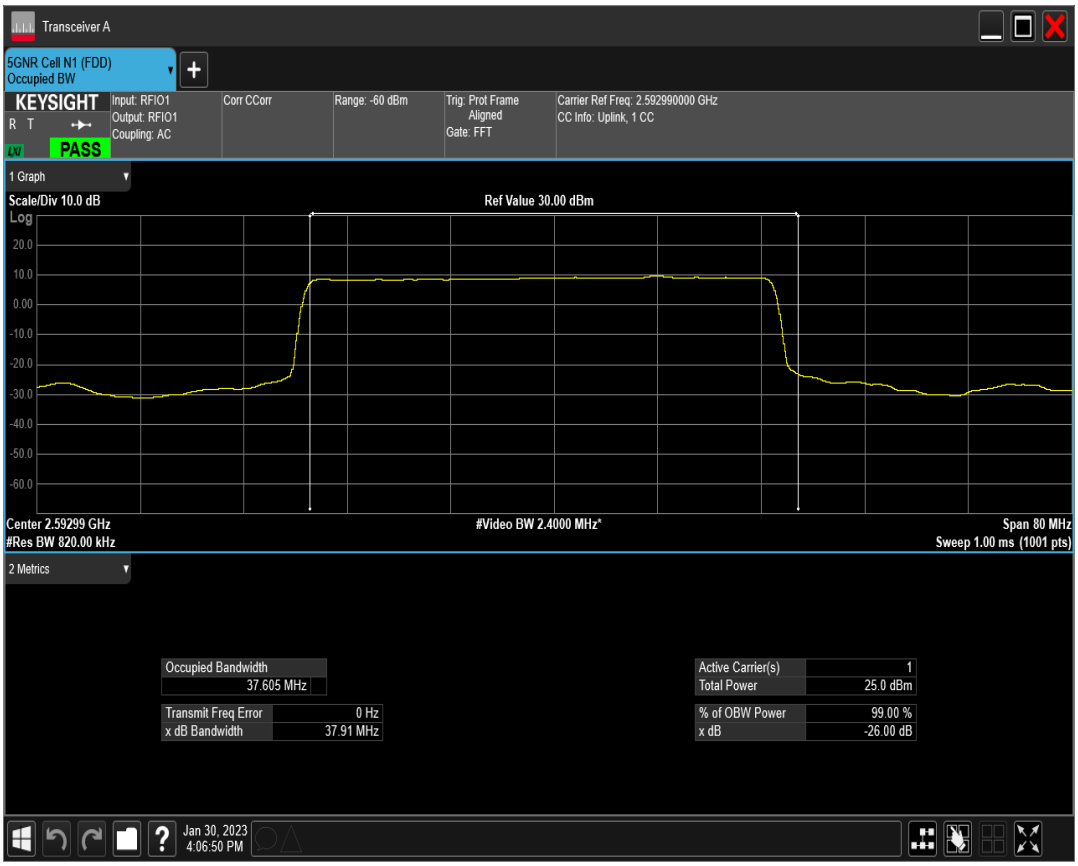


n41 SCS=30kHz CP_QPSK BW=40MHz Channel=503202 RB=106@0



n41 SCS=30kHz DFT_BPSK BW=40MHz Channel=518598 RB=100@0

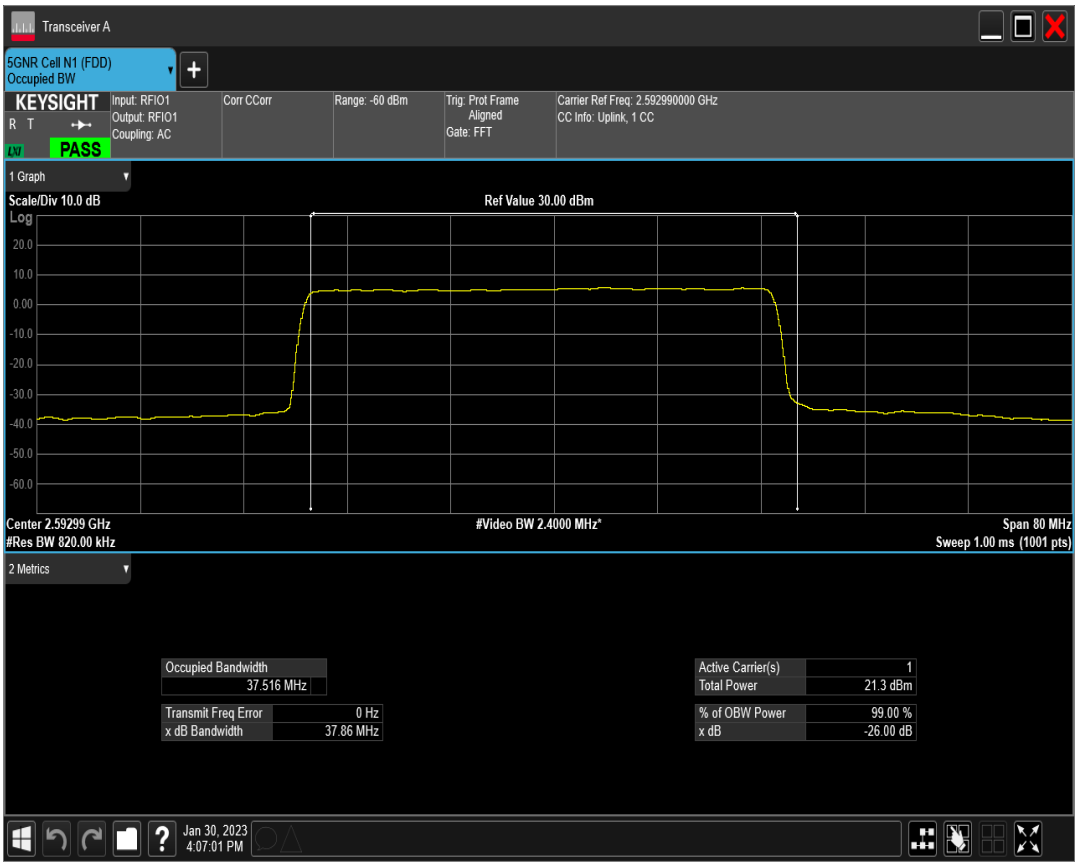


n41 SCS=30kHz DFT_QPSK BW=40MHz Channel=518598 RB=100@0

n41 SCS=30kHz DFT_QAM16 BW=40MHz Channel=518598 RB=100@0

n41 SCS=30kHz DFT_QAM64 BW=40MHz Channel=518598 RB=100@0

n41 SCS=30kHz DFT_QAM256 BW=40MHz Channel=518598 RB=100@0



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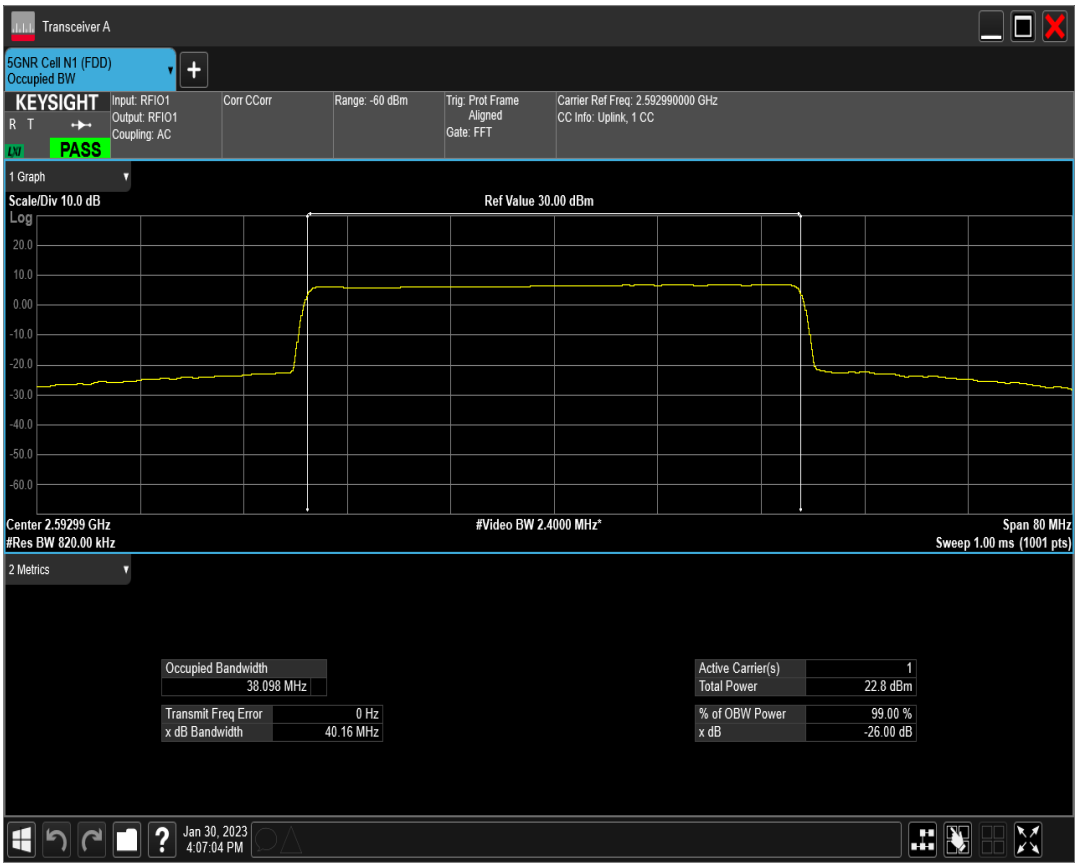

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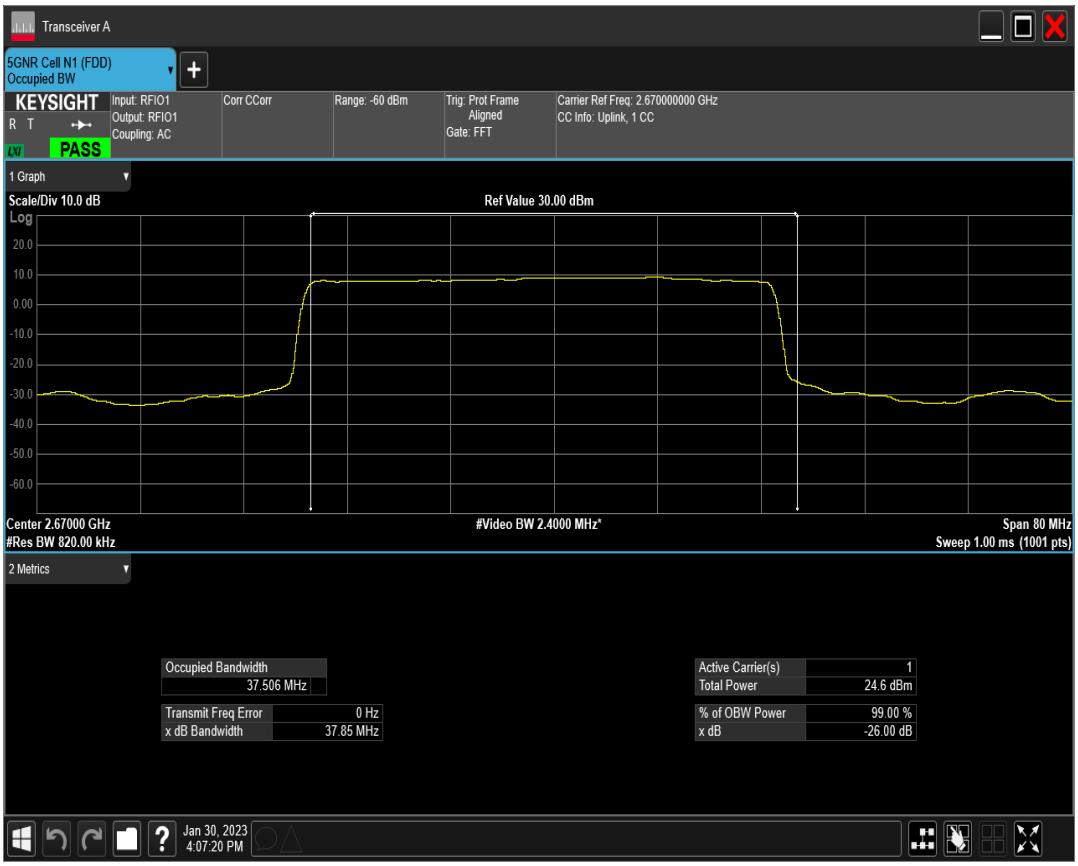
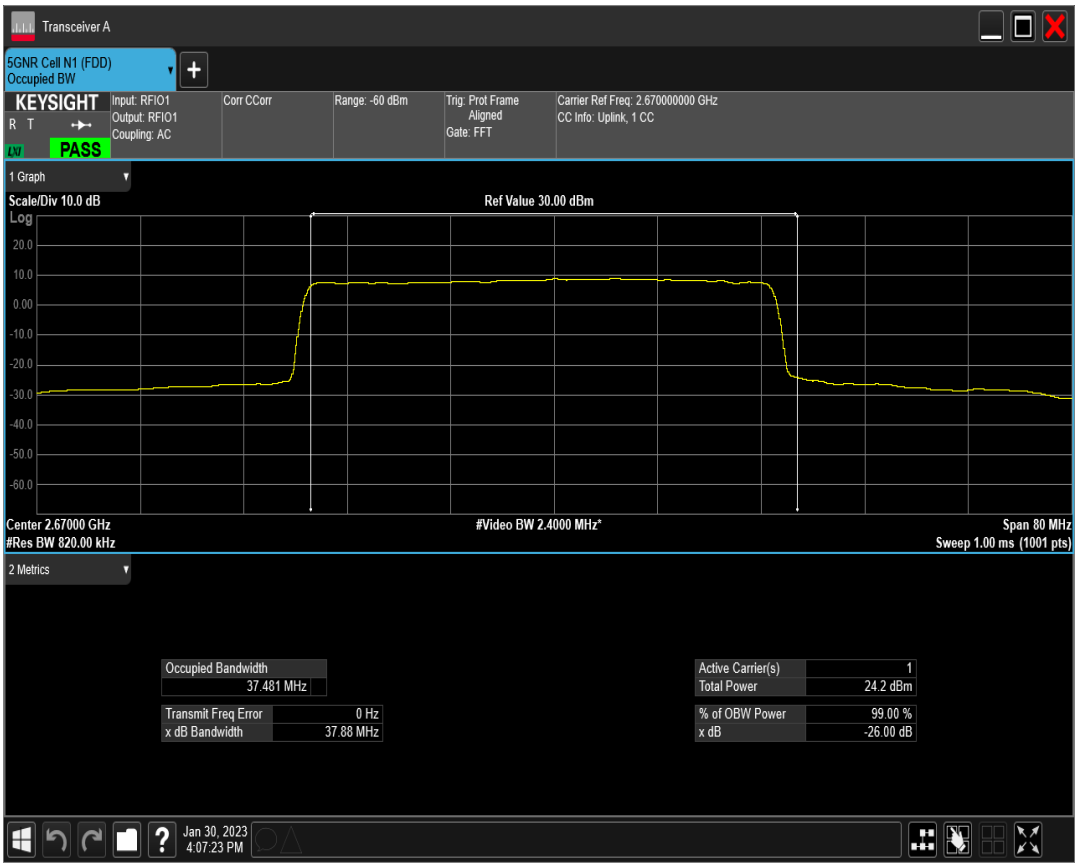


n41 SCS=30kHz DFT_QPSK BW=40MHz Channel=534000 RB=100@0



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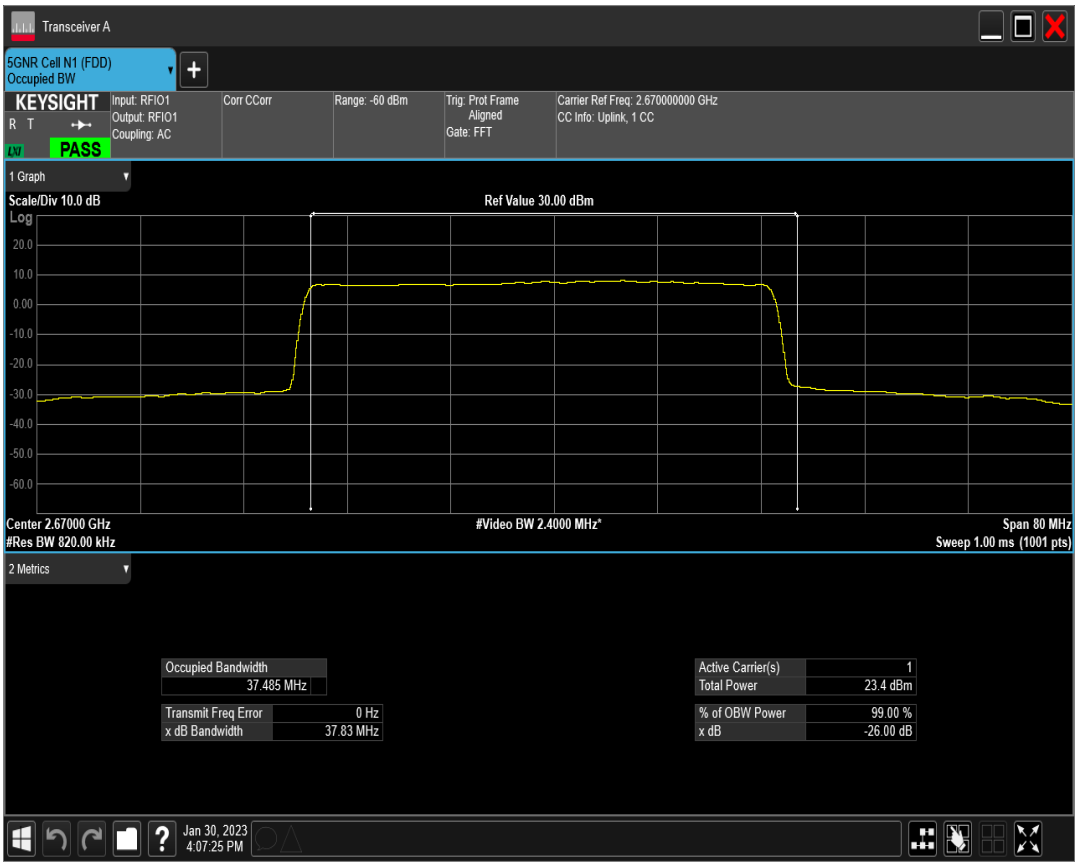
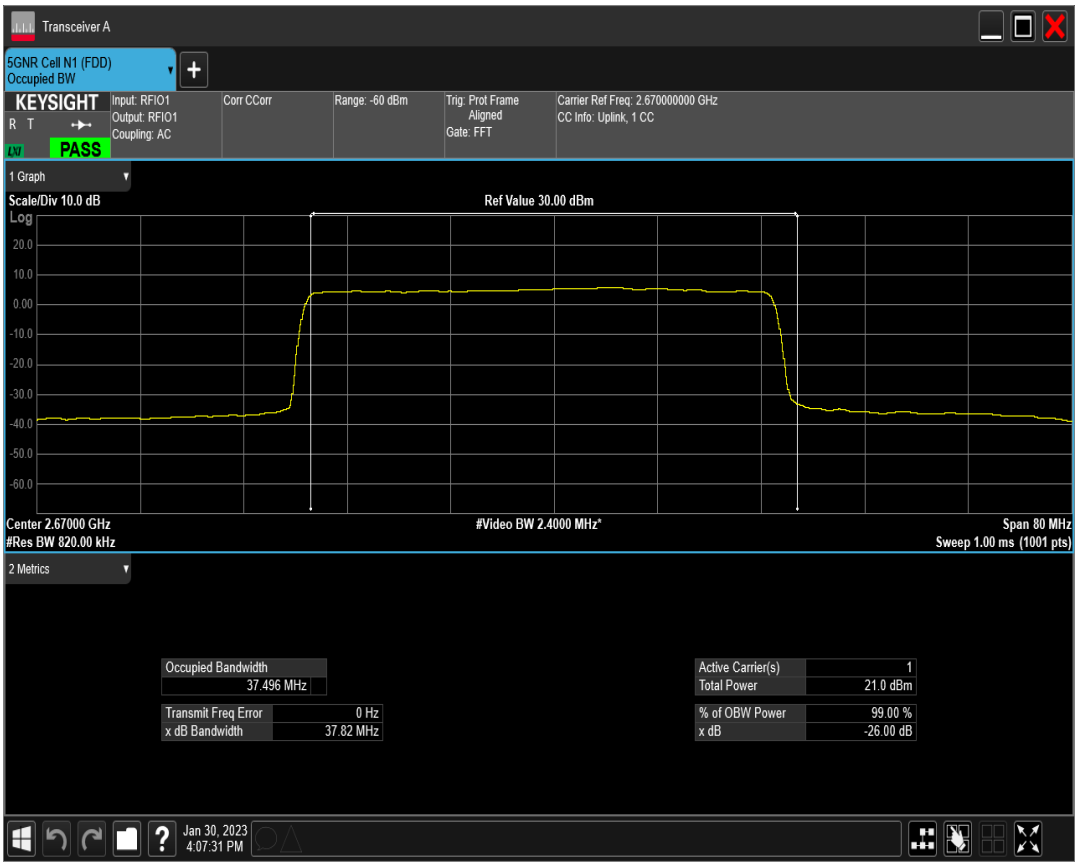
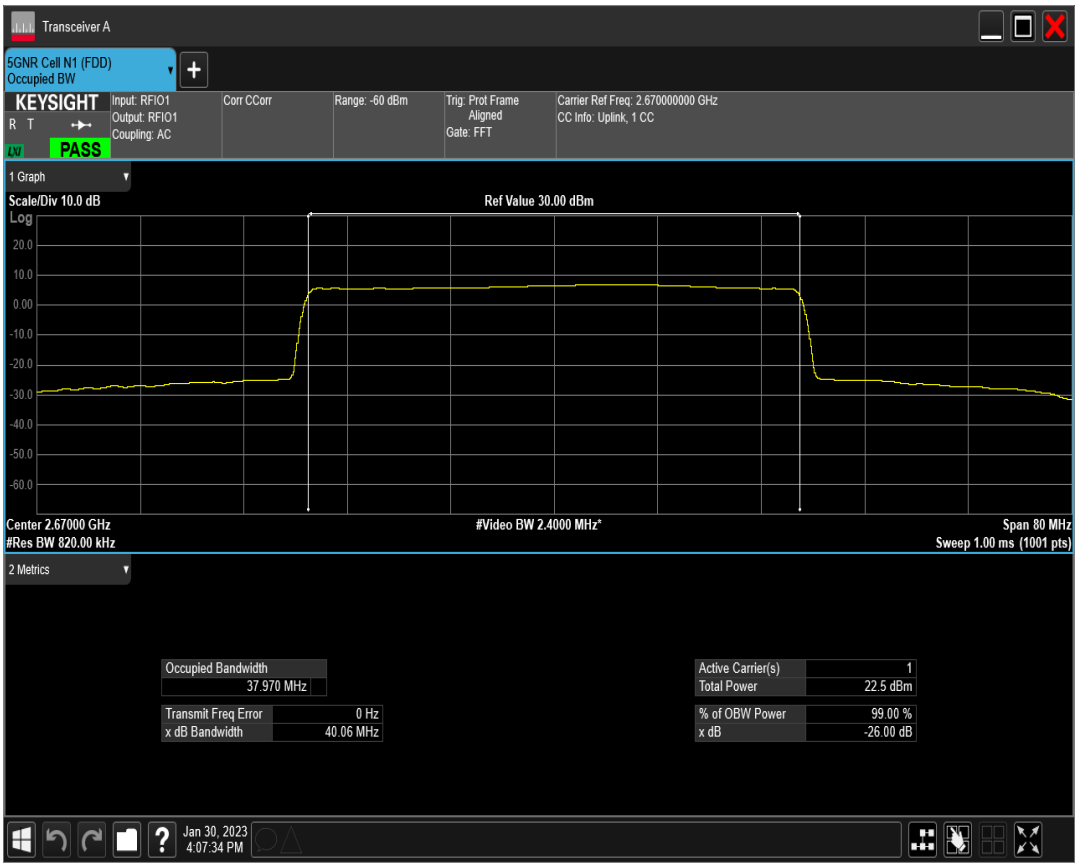


n41 SCS=30kHz DFT_QAM64 BW=40MHz Channel=534000 RB=100@0

n41 SCS=30kHz DFT_QAM256 BW=40MHz Channel=534000 RB=100@0

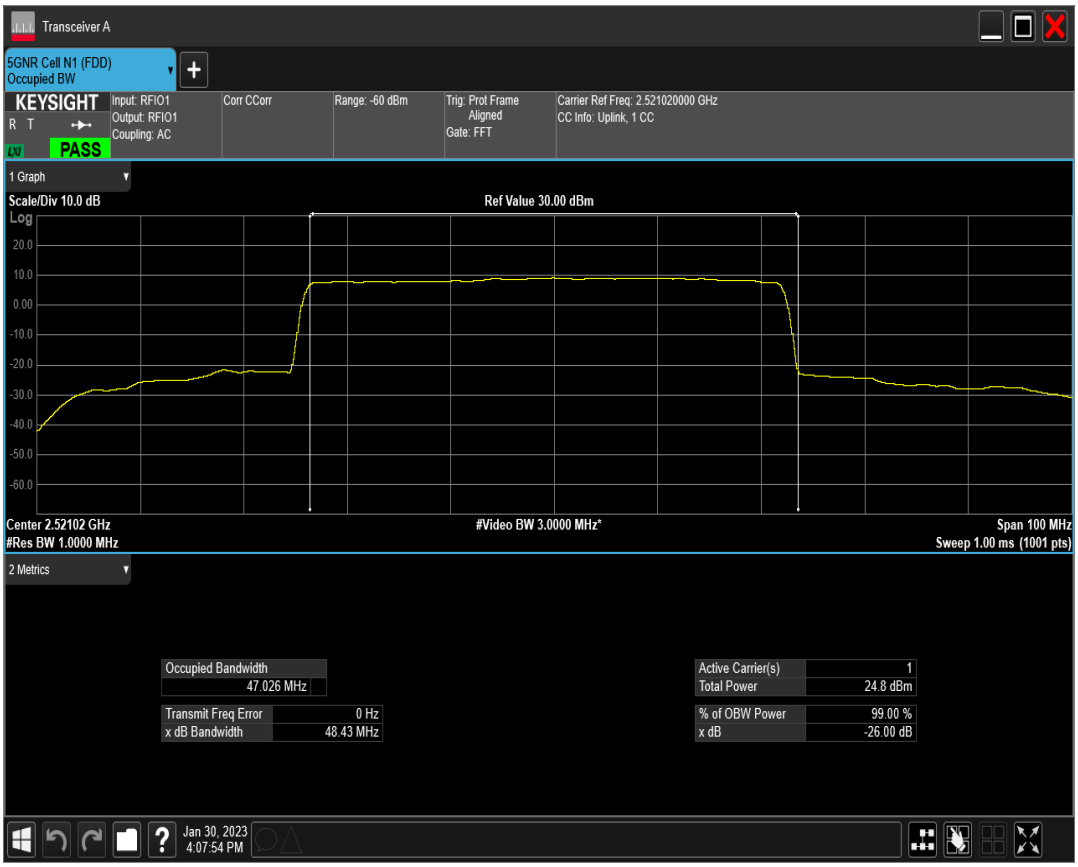


n41 SCS=30kHz CP_QPSK BW=40MHz Channel=534000 RB=106@0

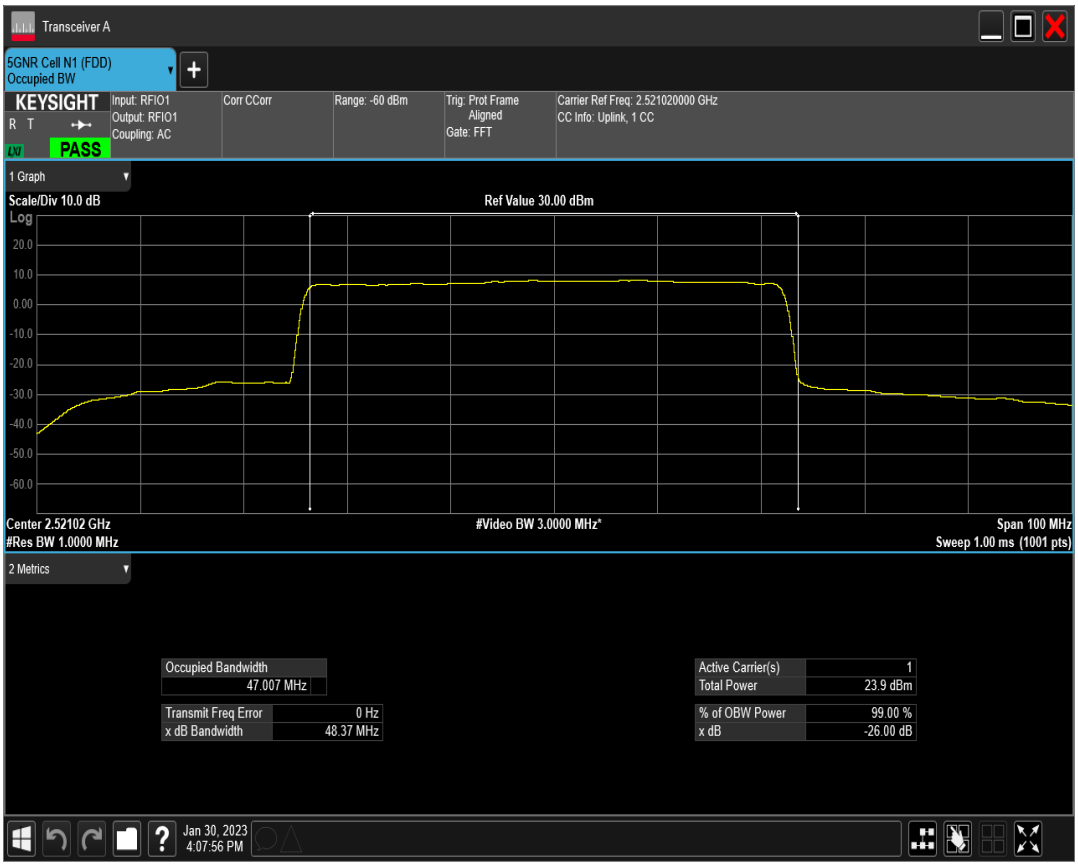


n41 SCS=30kHz DFT_BPSK BW=50MHz Channel=504204 RB=128@0

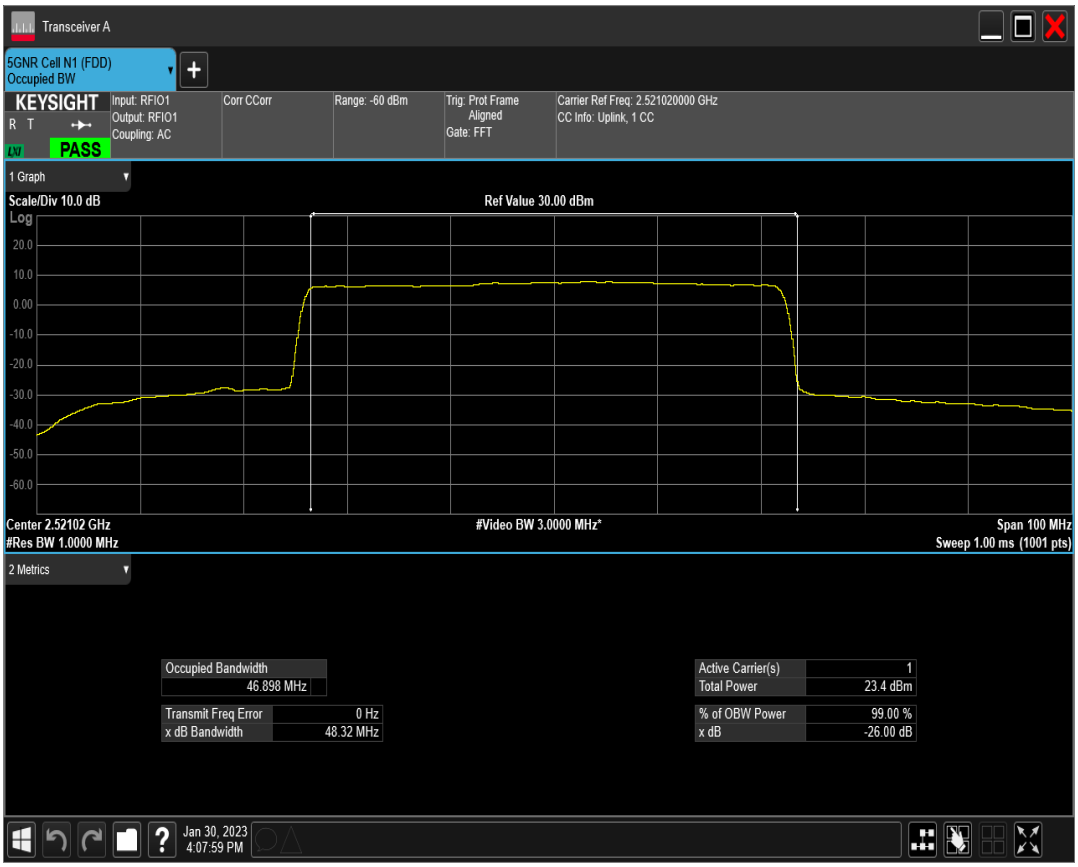
n41 SCS=30kHz DFT_QPSK BW=50MHz Channel=504204 RB=128@0



n41 SCS=30kHz DFT_QAM16 BW=50MHz Channel=504204 RB=128@0



n41 SCS=30kHz DFT_QAM64 BW=50MHz Channel=504204 RB=128@0



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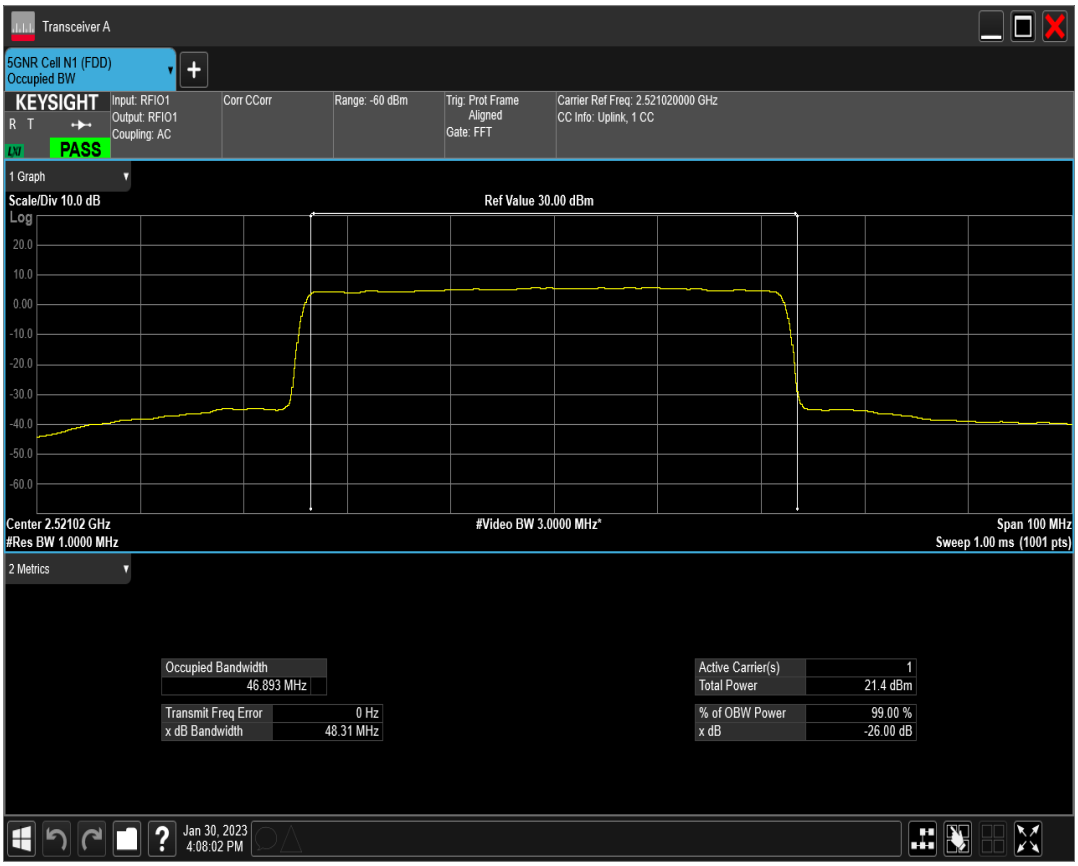
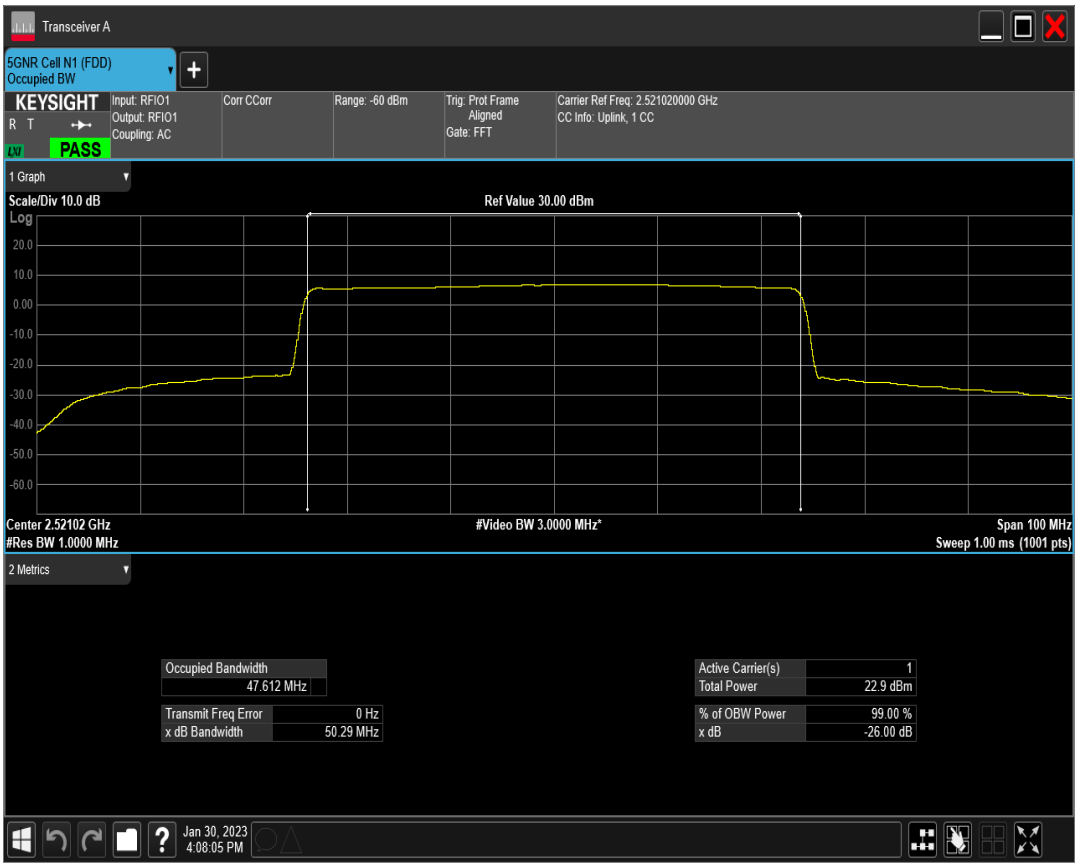
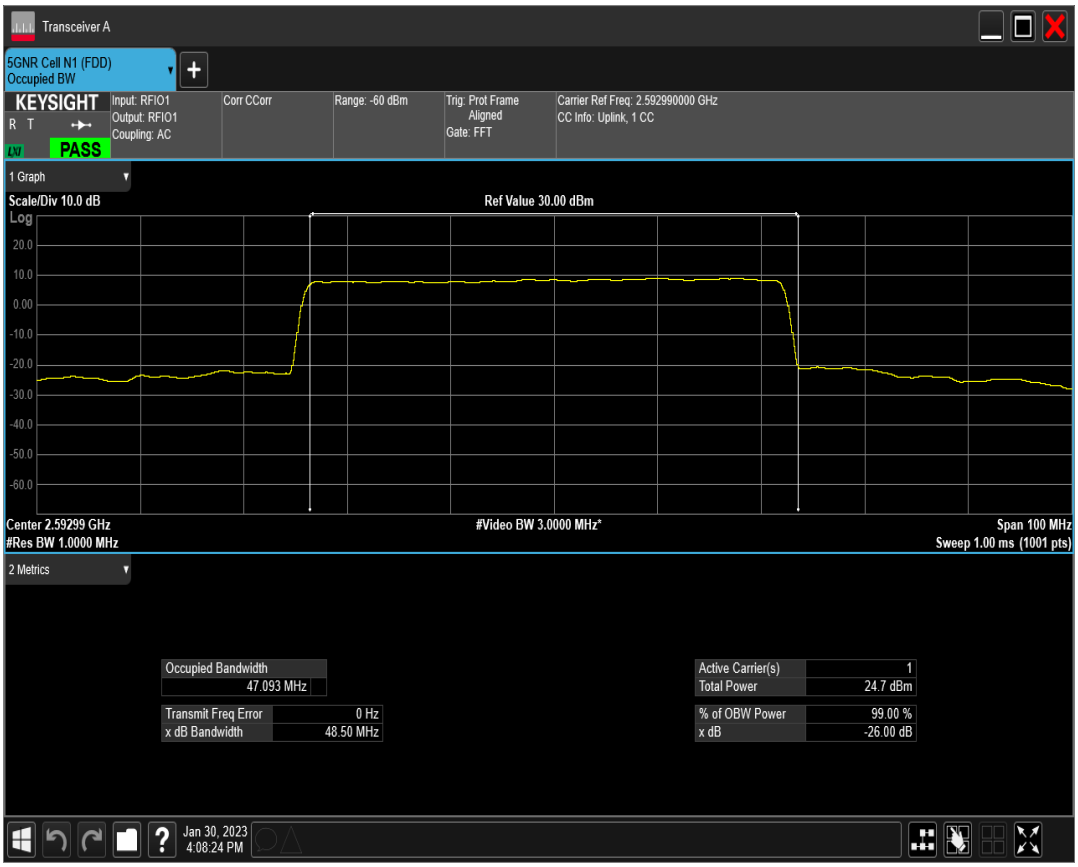


n41 SCS=30kHz CP_QPSK BW=50MHz Channel=504204 RB=133@0



n41 SCS=30kHz DFT_BPSK BW=50MHz Channel=518598 RB=128@0

n41 SCS=30kHz DFT_QPSK BW=50MHz Channel=518598 RB=128@0



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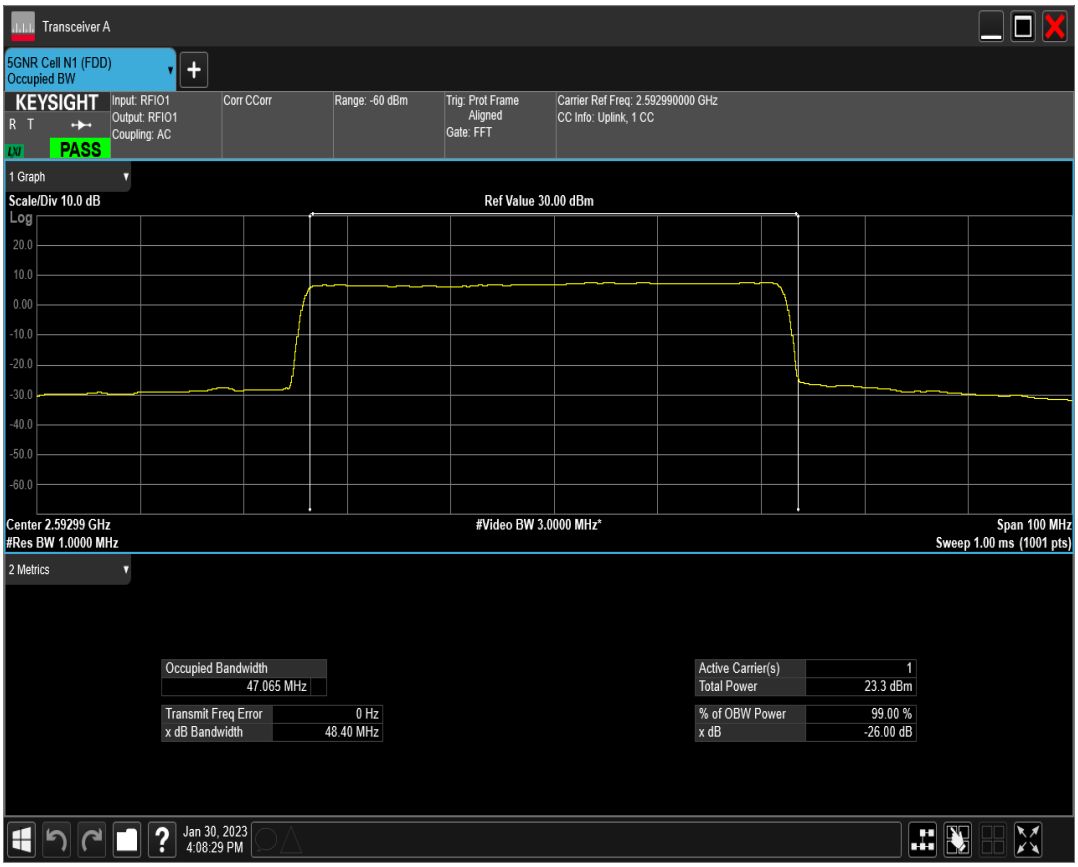

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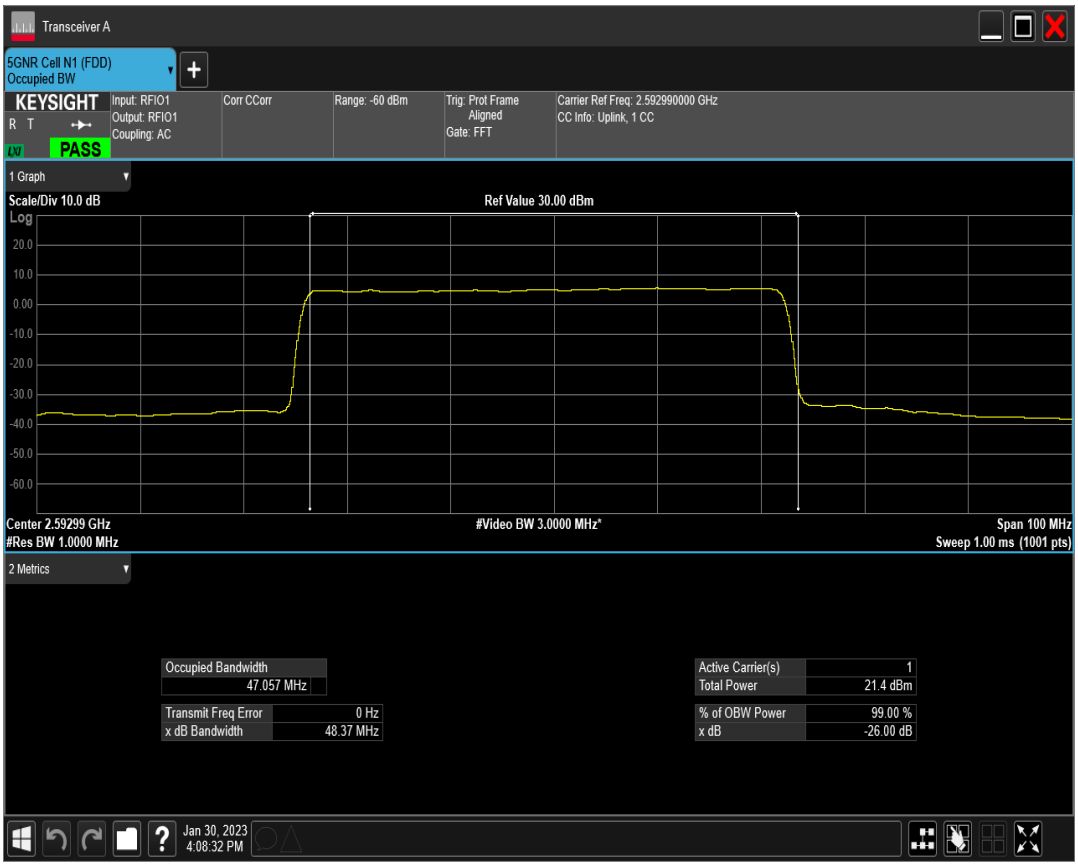
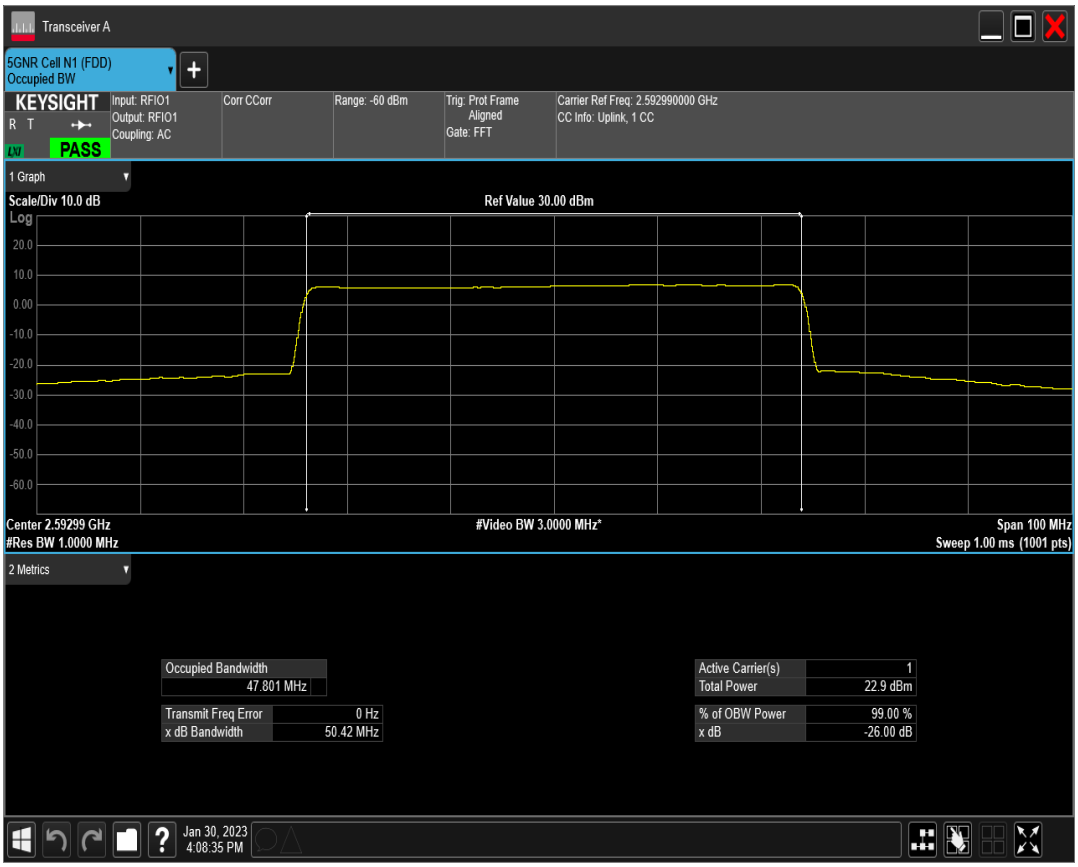
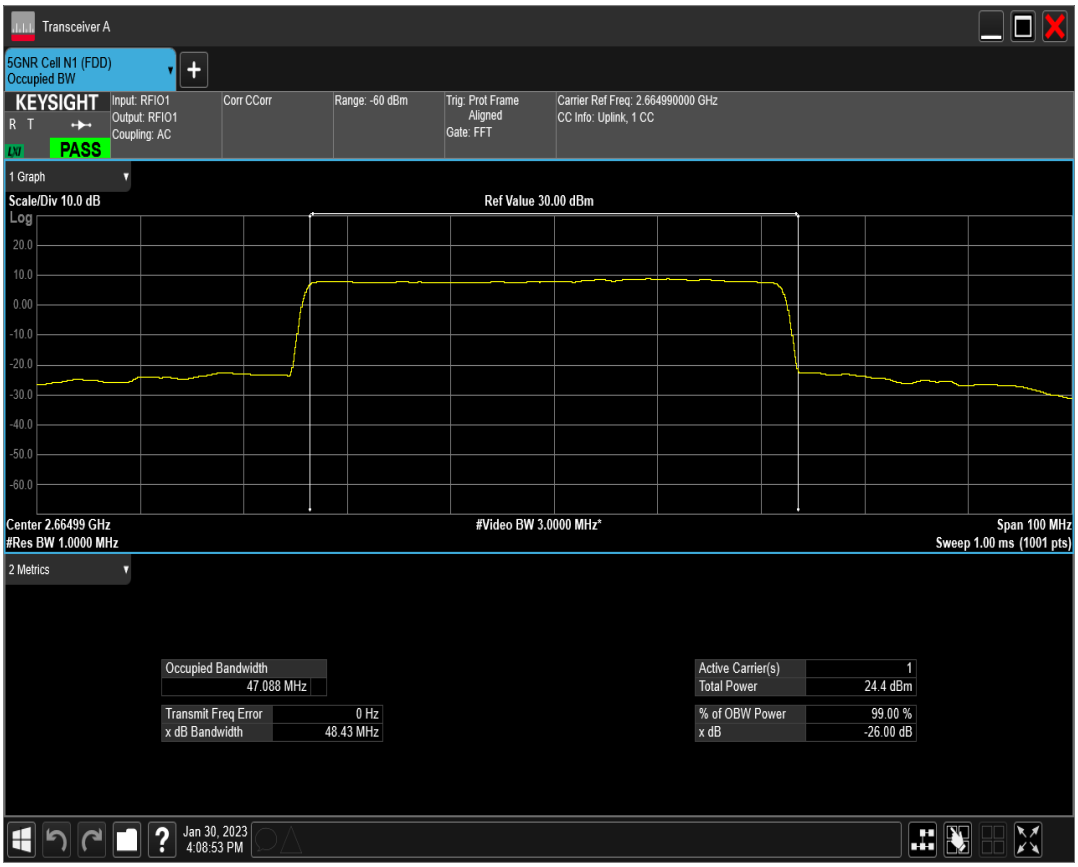


n41 SCS=30kHz CP_QPSK BW=50MHz Channel=518598 RB=133@0



n41 SCS=30kHz DFT_BPSK BW=50MHz Channel=532998 RB=128@0

n41 SCS=30kHz DFT_QPSK BW=50MHz Channel=532998 RB=128@0



n41 SCS=30kHz DFT_QAM16 BW=50MHz Channel=532998 RB=128@0

n41 SCS=30kHz DFT_QAM64 BW=50MHz Channel=532998 RB=128@0

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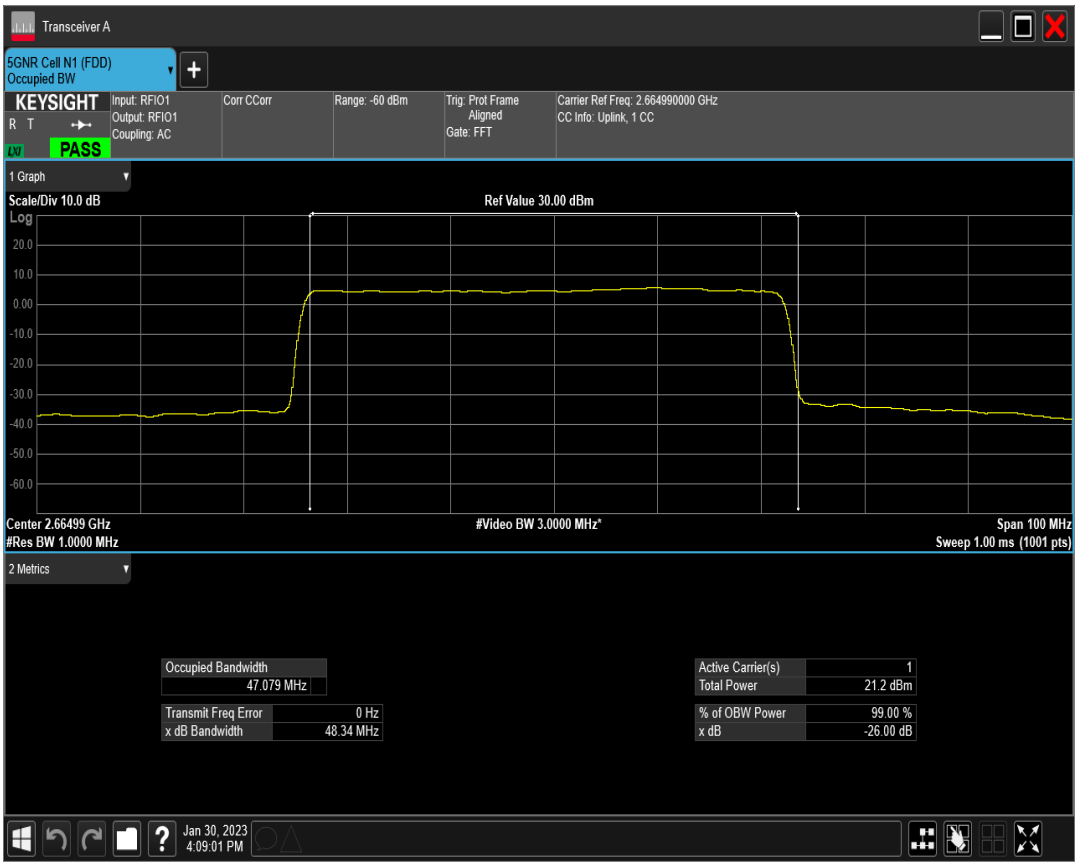
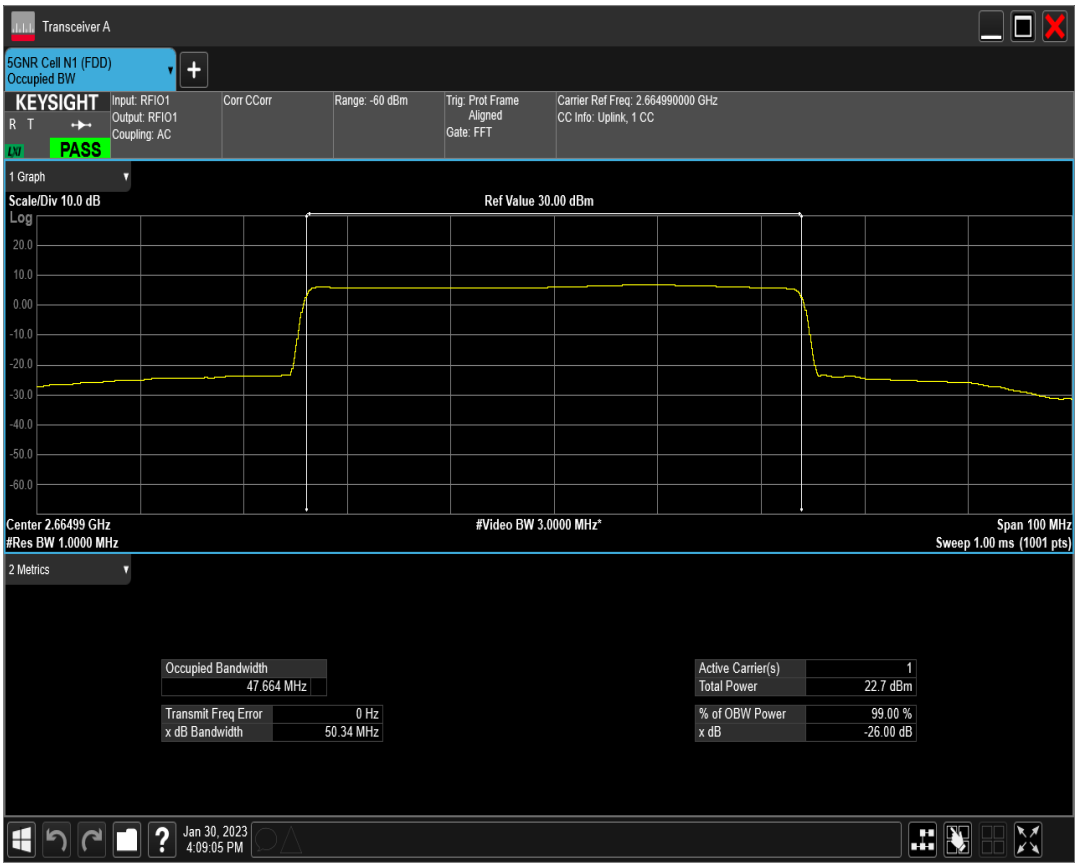
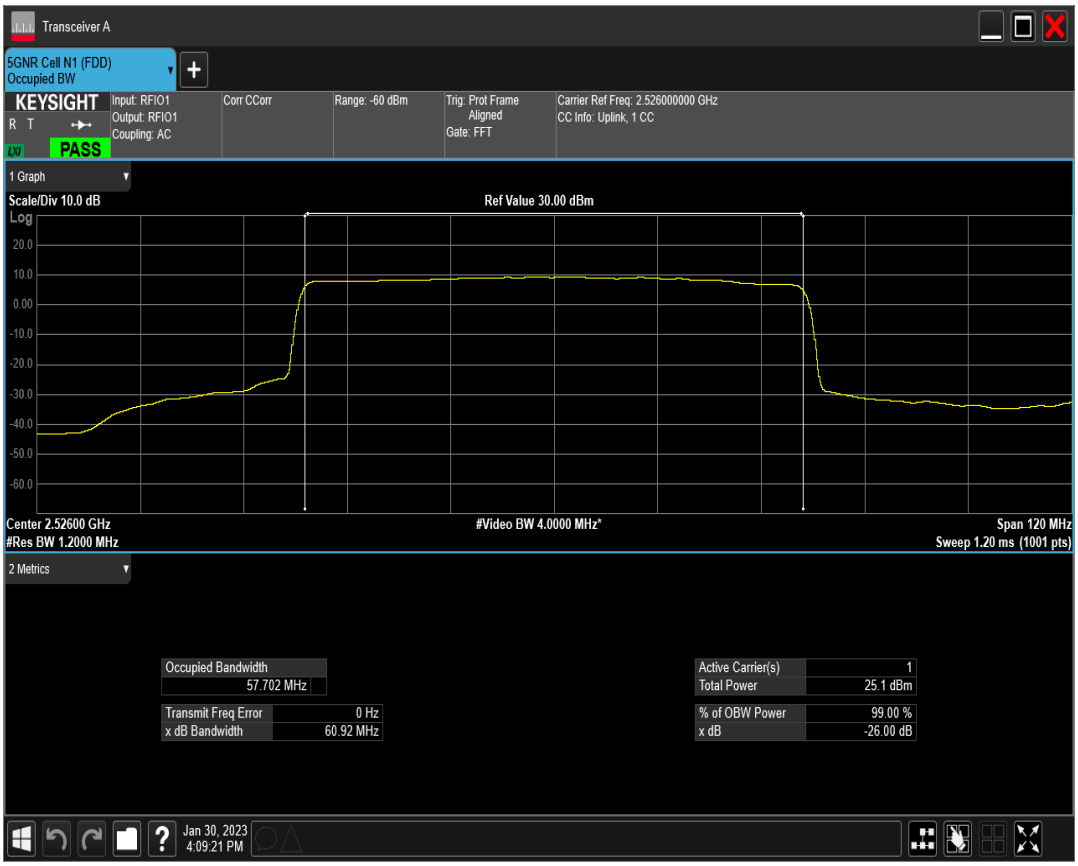


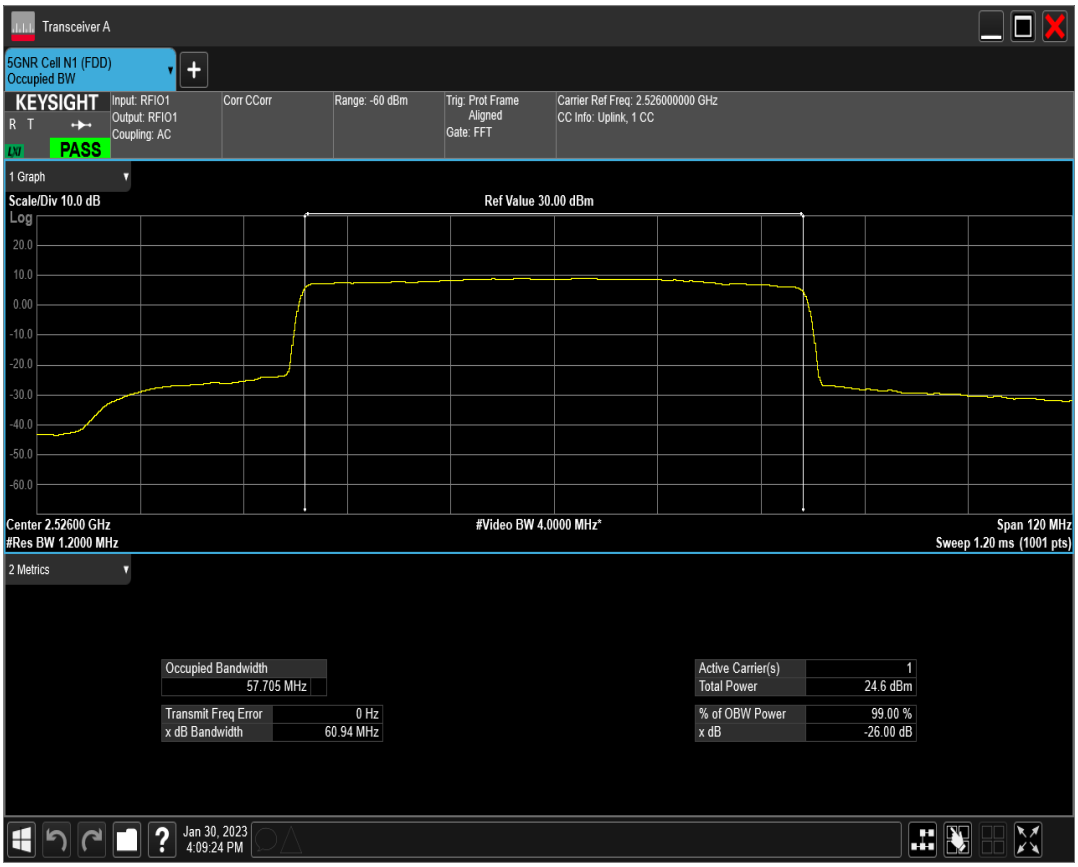
n41 SCS=30kHz CP_QPSK BW=50MHz Channel=532998 RB=133@0



n41 SCS=30kHz DFT_BPSK BW=60MHz Channel=505200 RB=162@0



n41 SCS=30kHz DFT_QPSK BW=60MHz Channel=505200 RB=162@0



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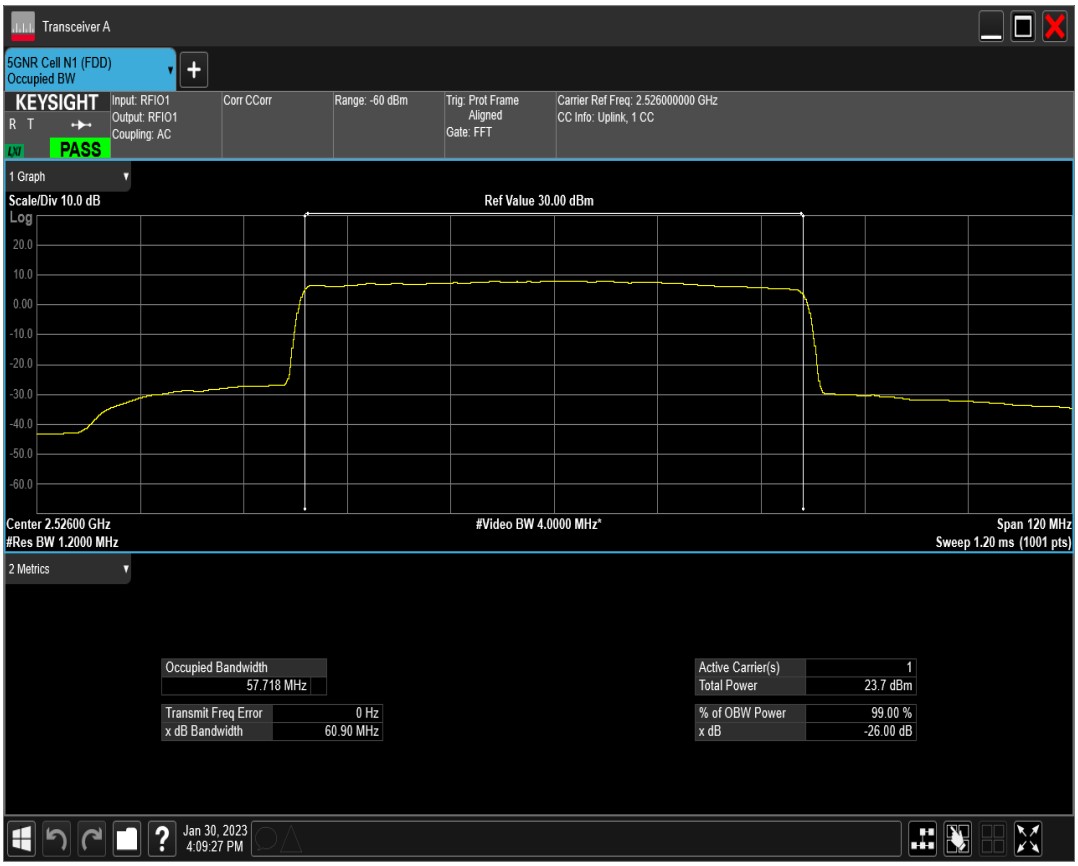
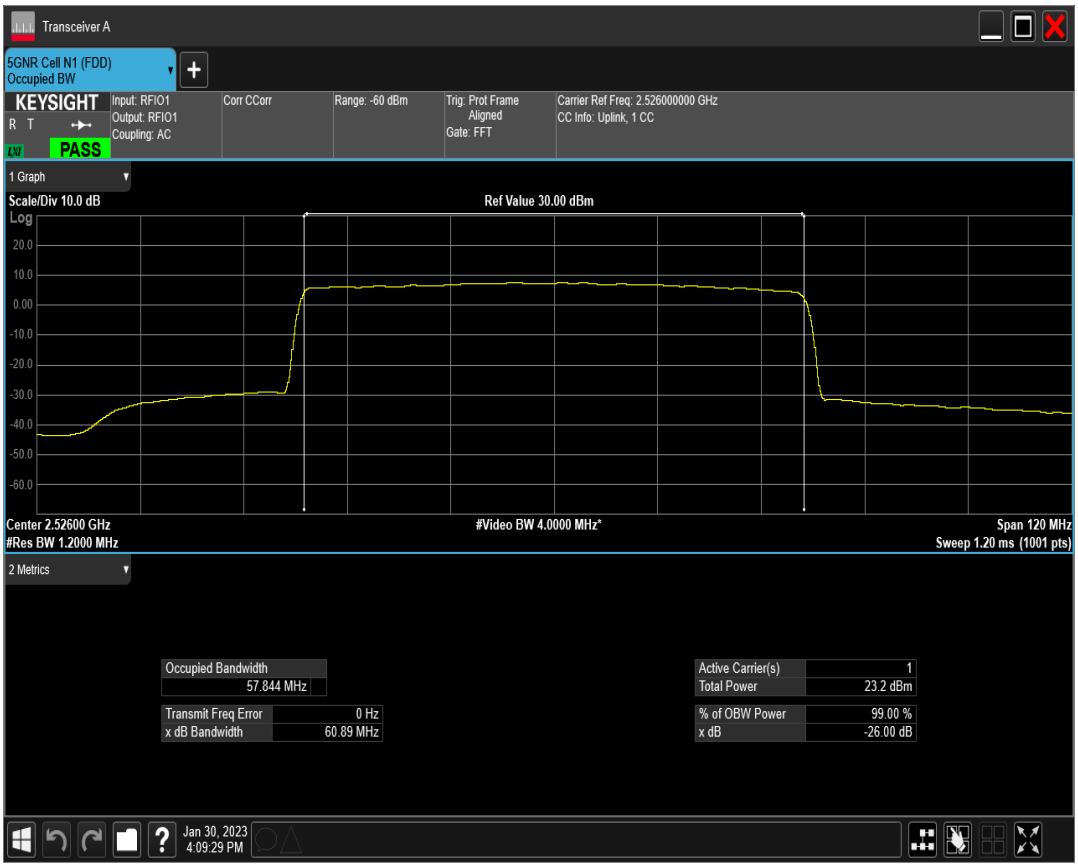


n41 SCS=30kHz DFT_QAM64 BW=60MHz Channel=505200 RB=162@0



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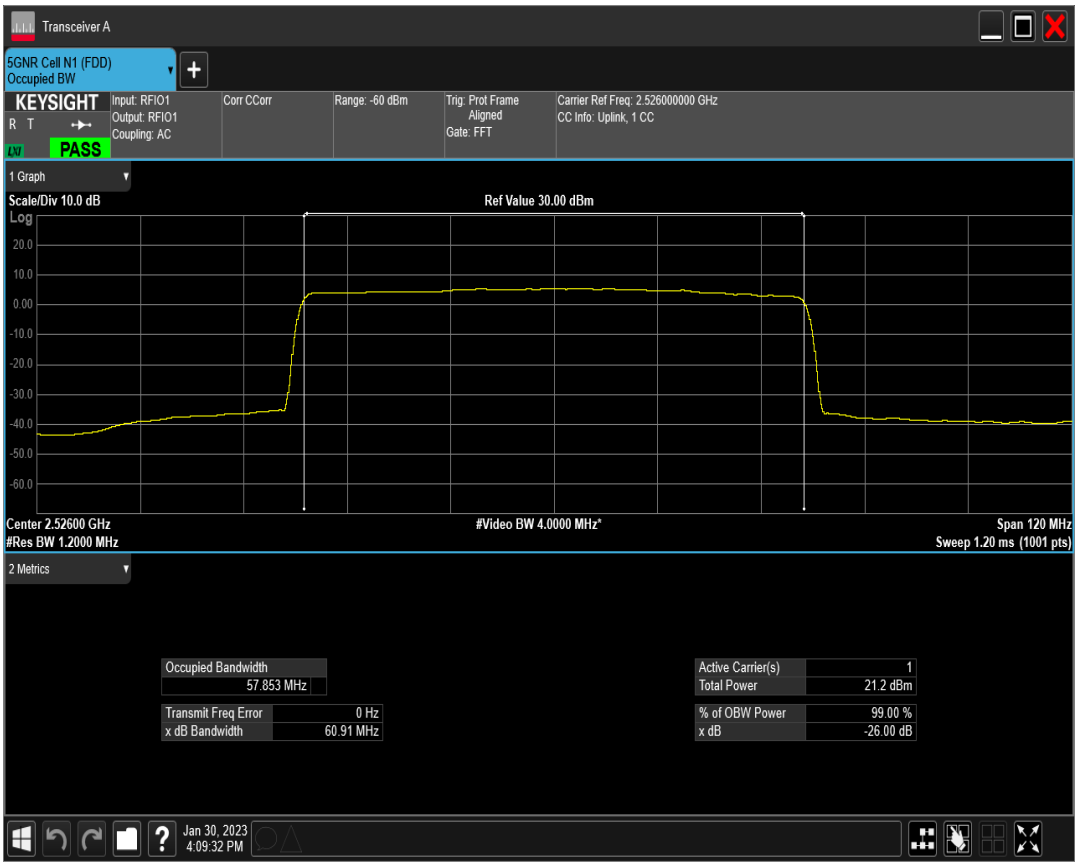
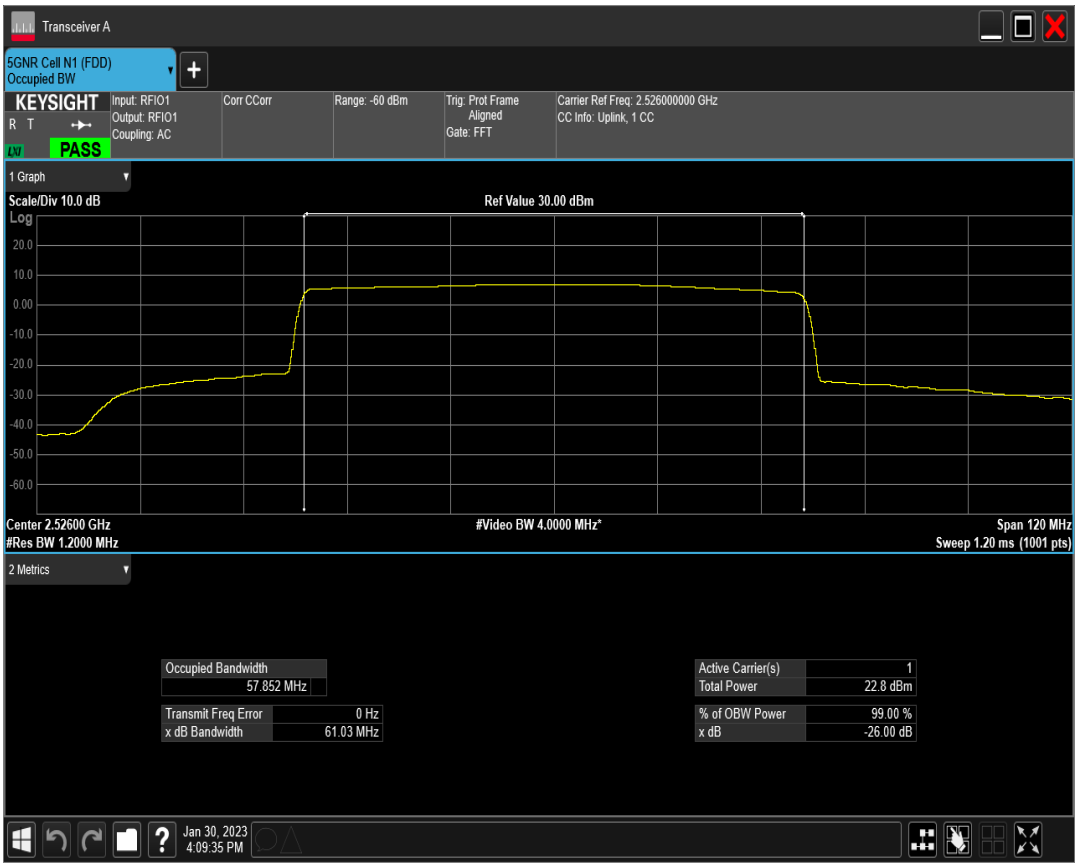
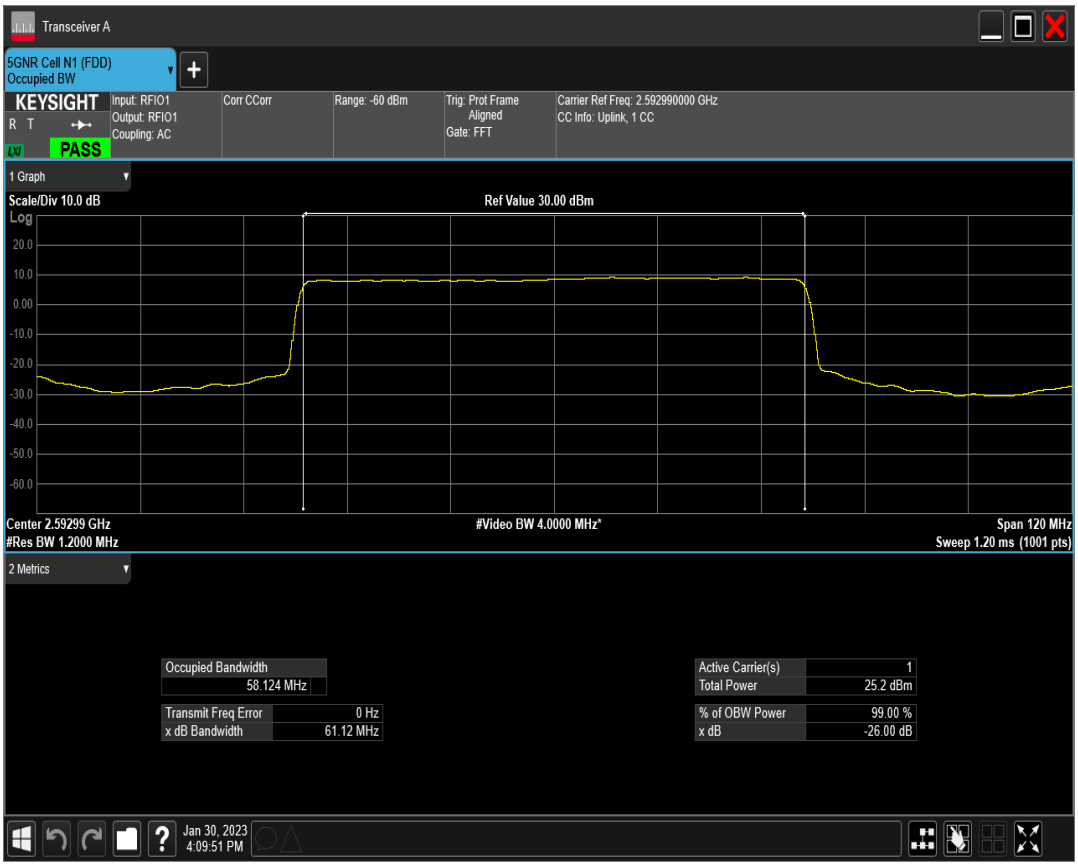


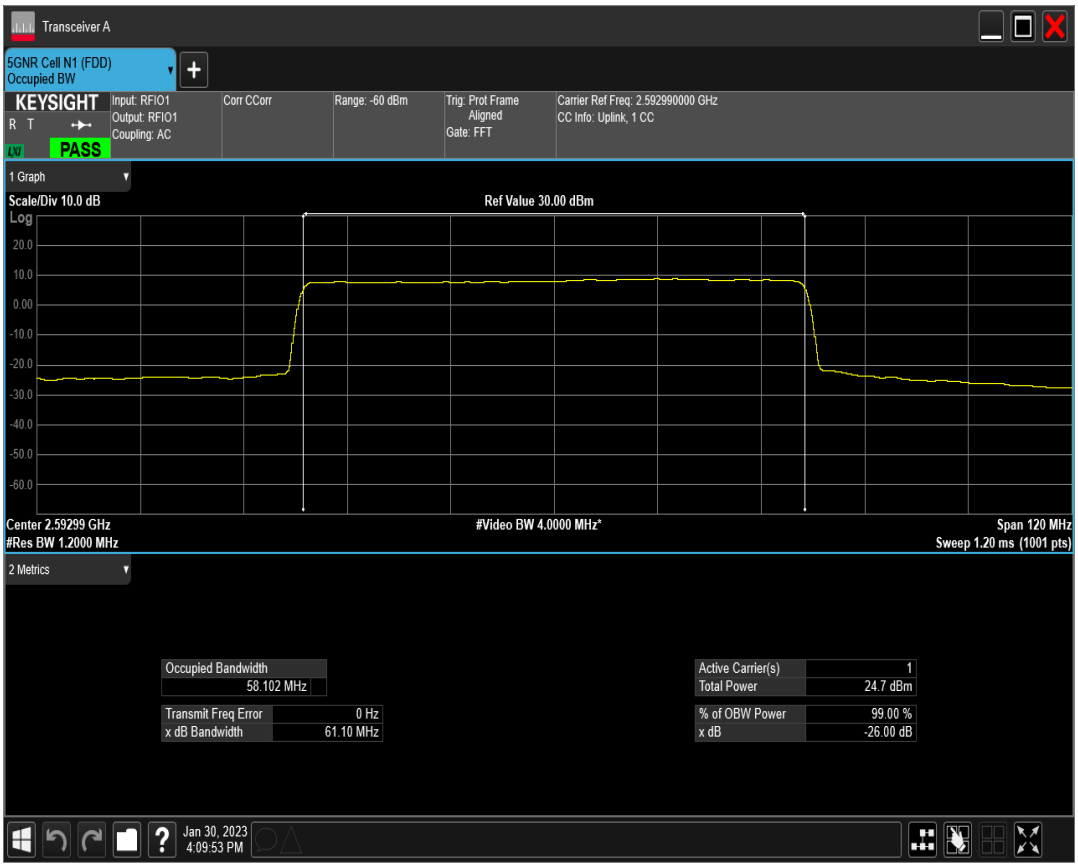
n41 SCS=30kHz CP_QPSK BW=60MHz Channel=505200 RB=162@0



n41 SCS=30kHz DFT_BPSK BW=60MHz Channel=518598 RB=162@0



n41 SCS=30kHz DFT_QPSK BW=60MHz Channel=518598 RB=162@0



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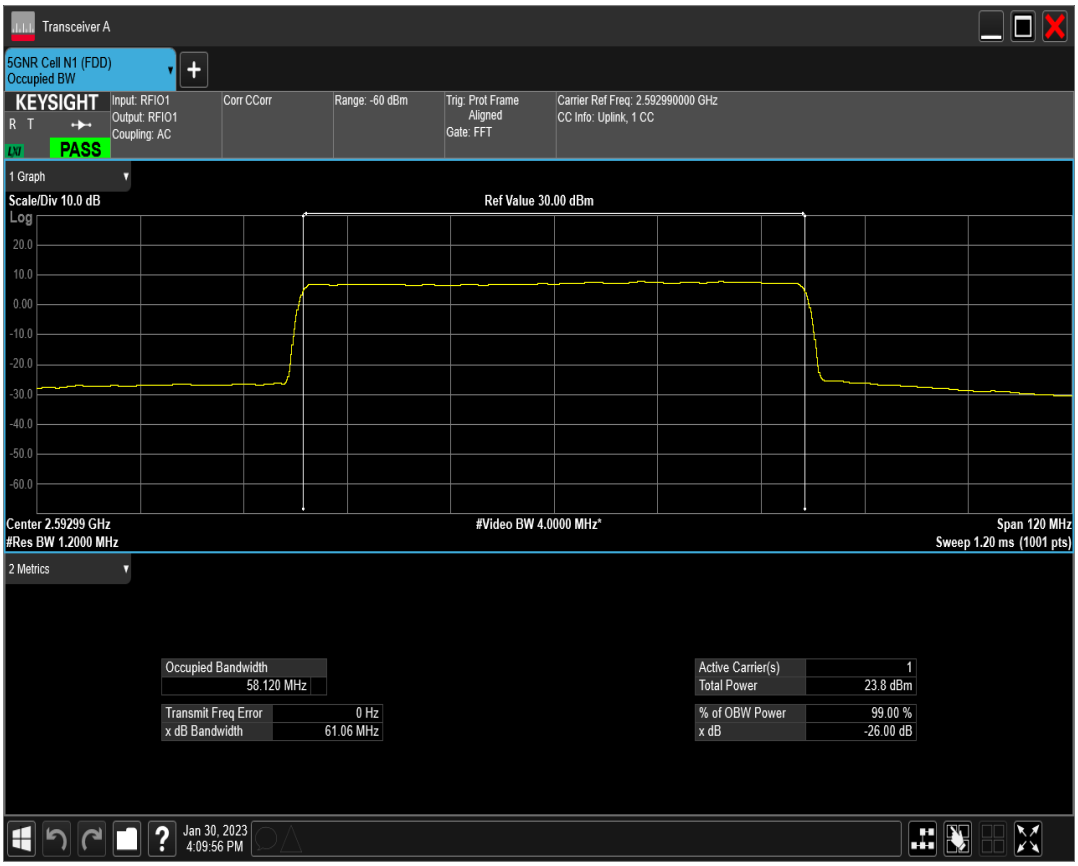
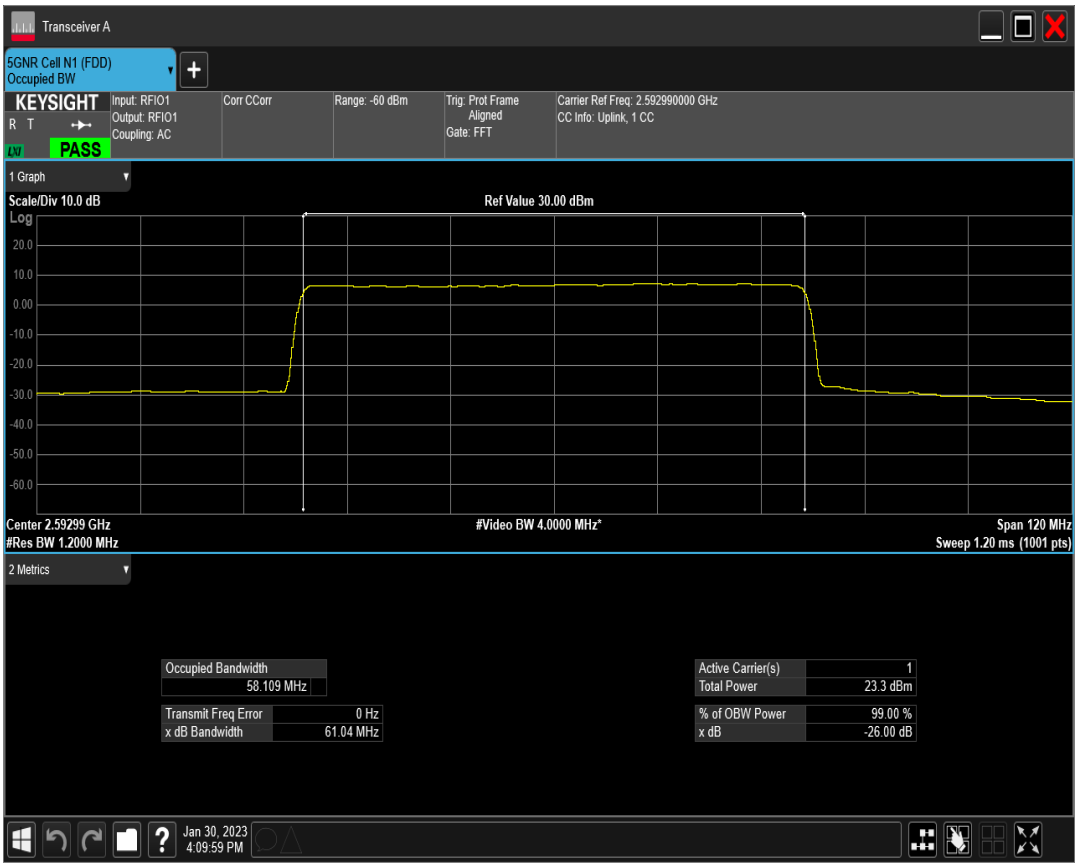


n41 SCS=30kHz DFT_QAM64 BW=60MHz Channel=518598 RB=162@0



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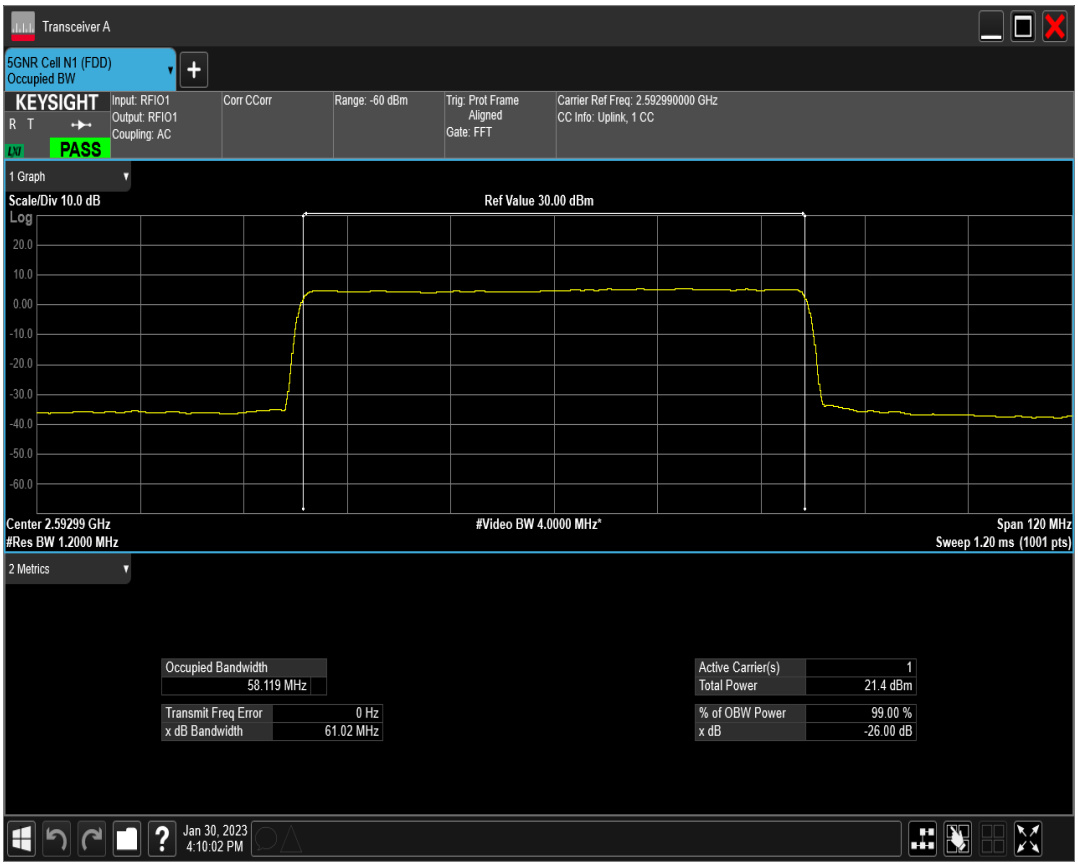
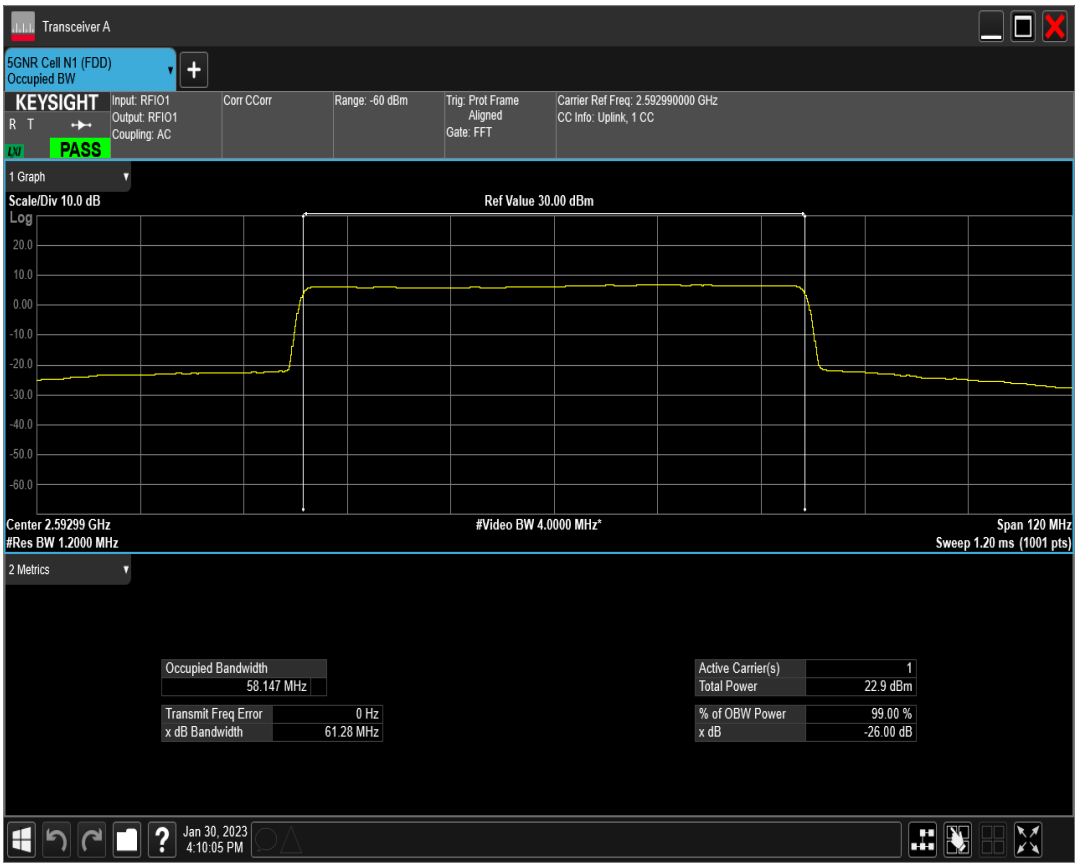
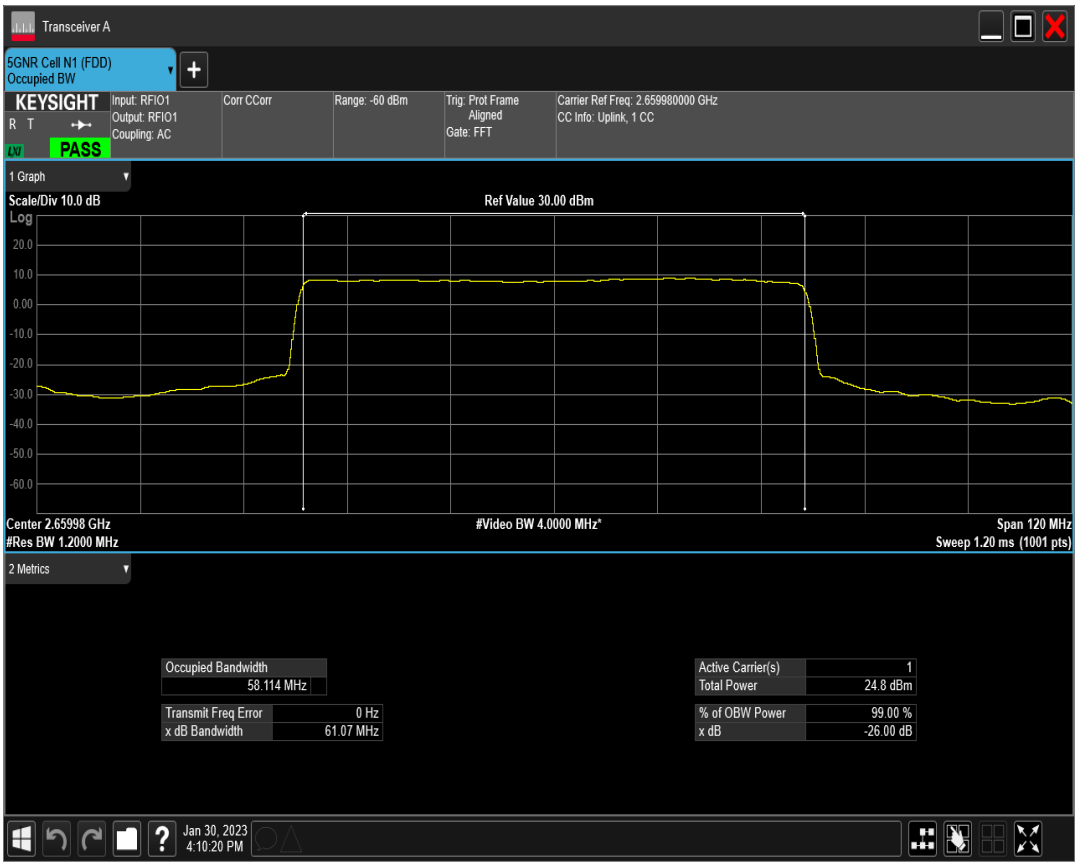


n41 SCS=30kHz CP_QPSK BW=60MHz Channel=518598 RB=162@0



n41 SCS=30kHz DFT_BPSK BW=60MHz Channel=531996 RB=162@0



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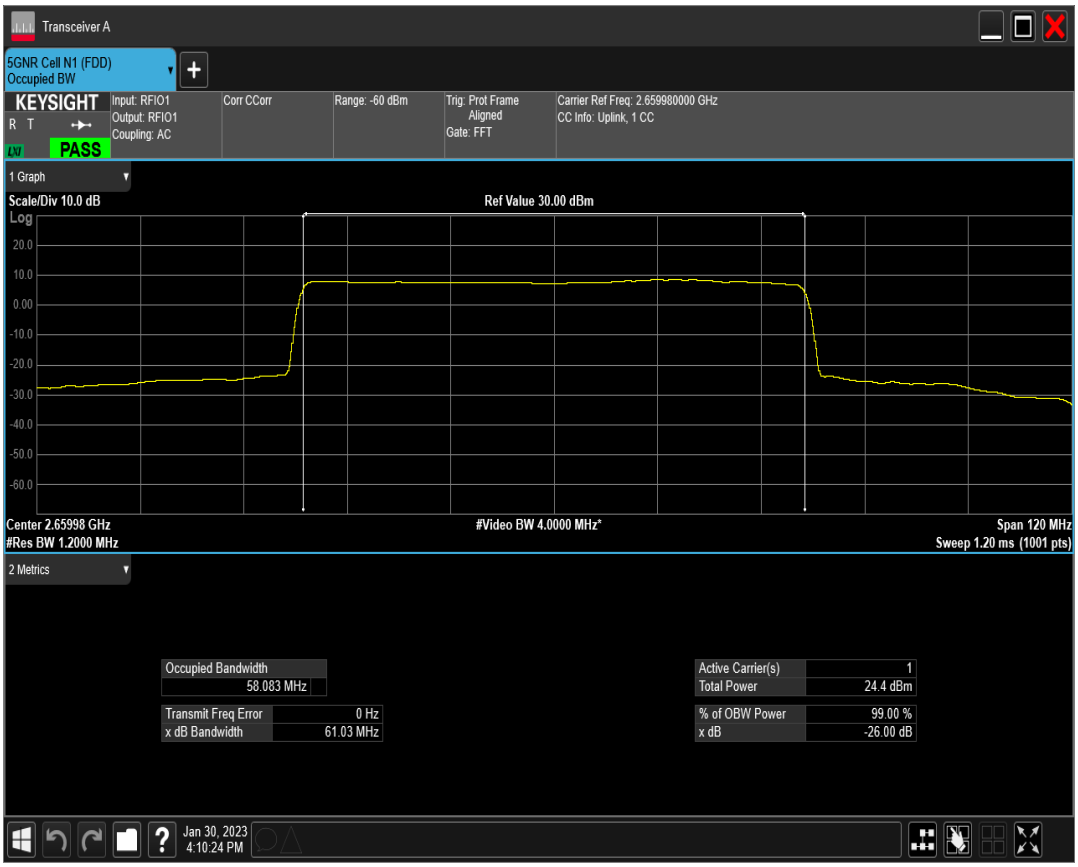

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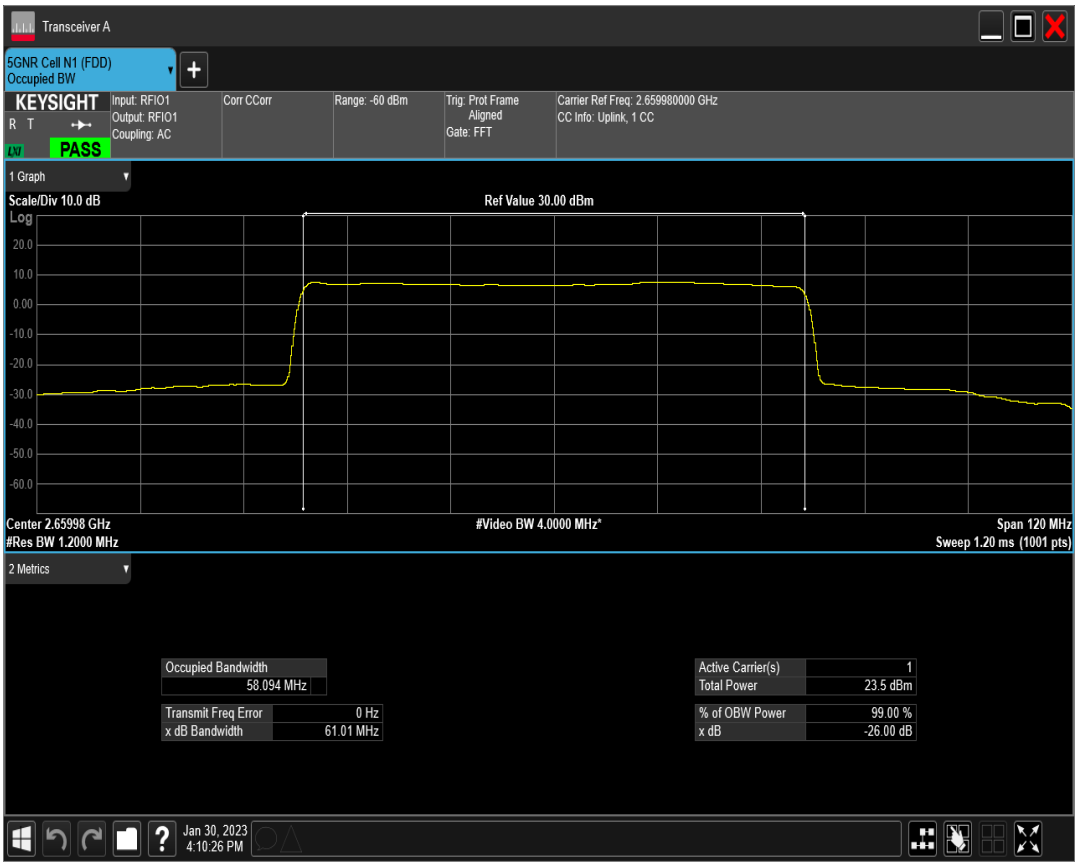

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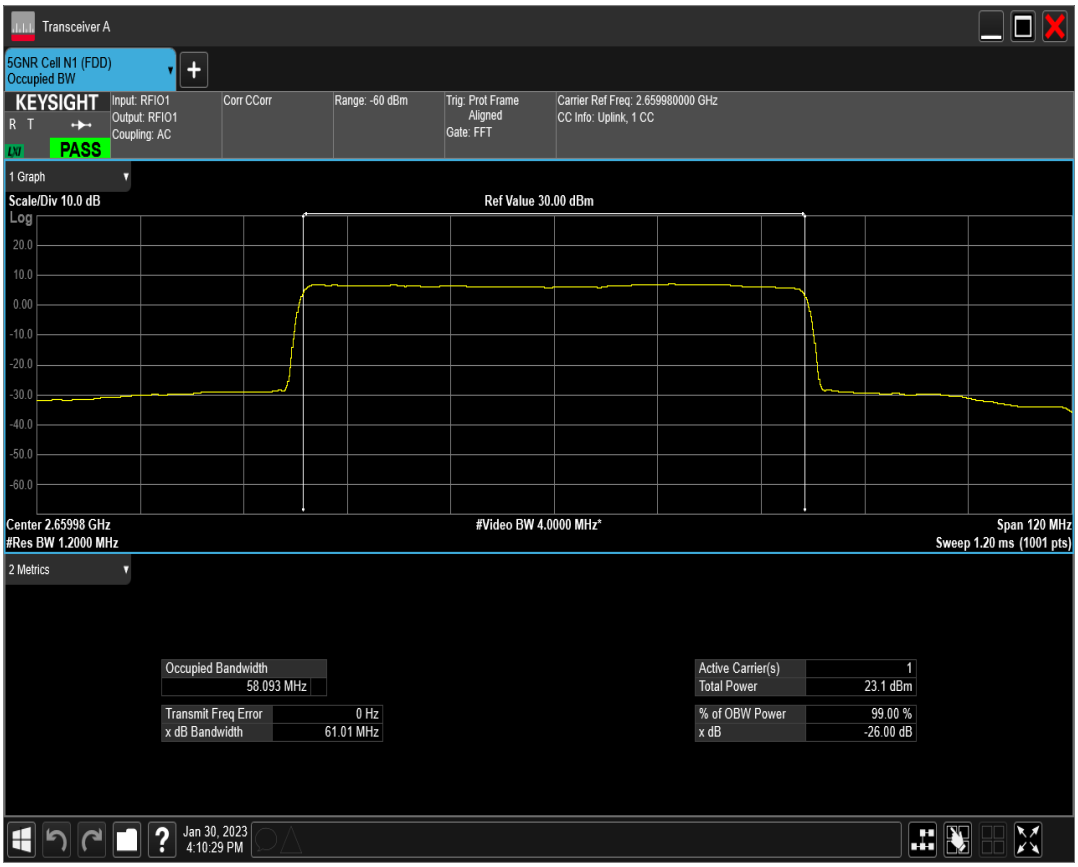

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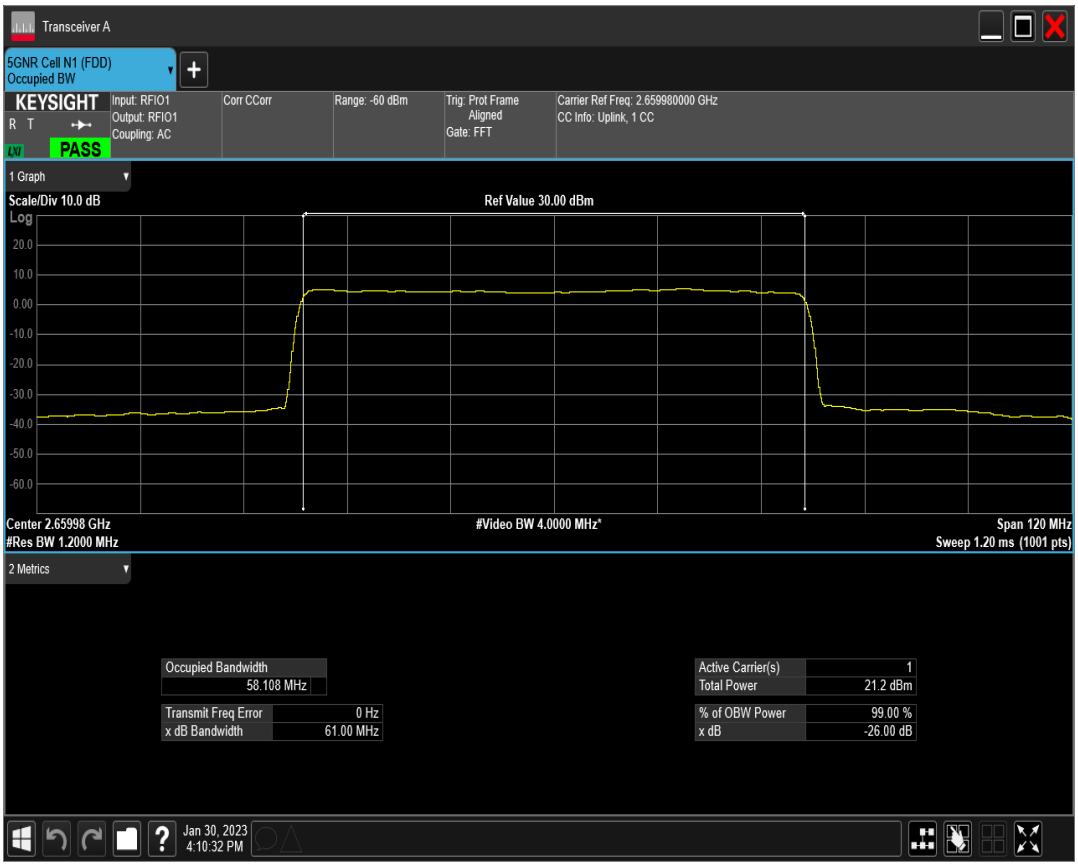

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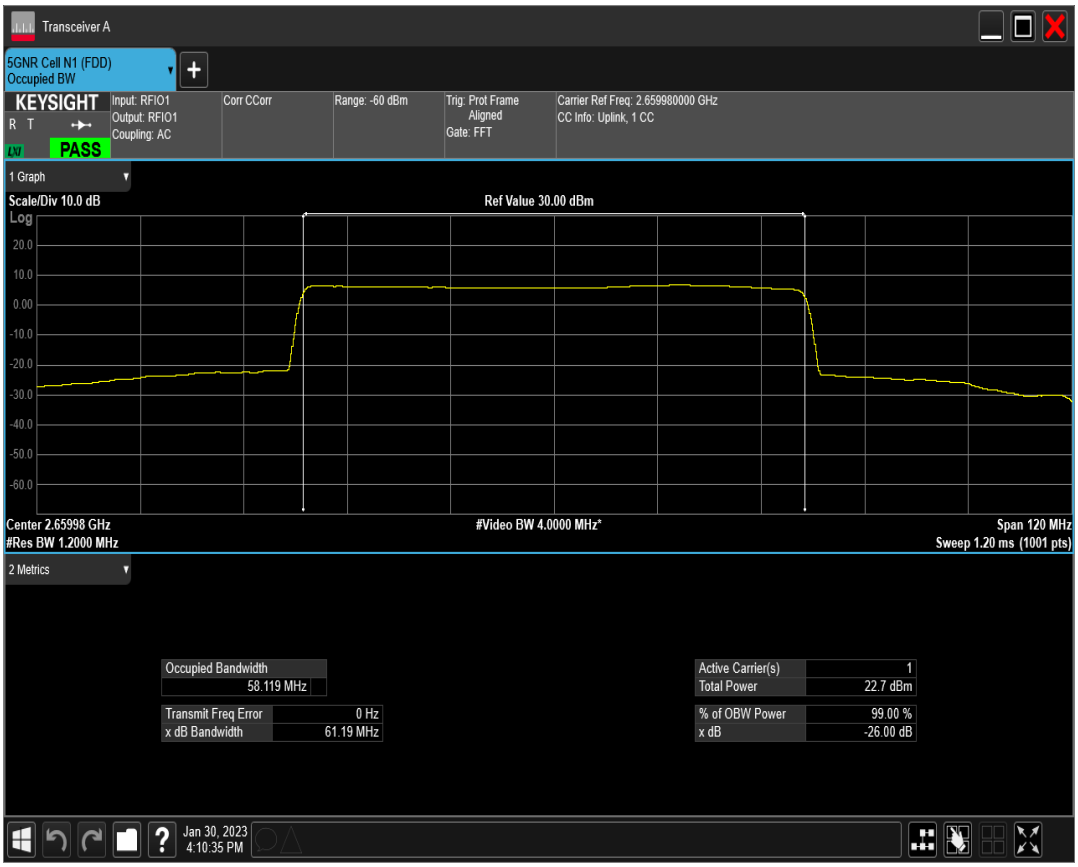

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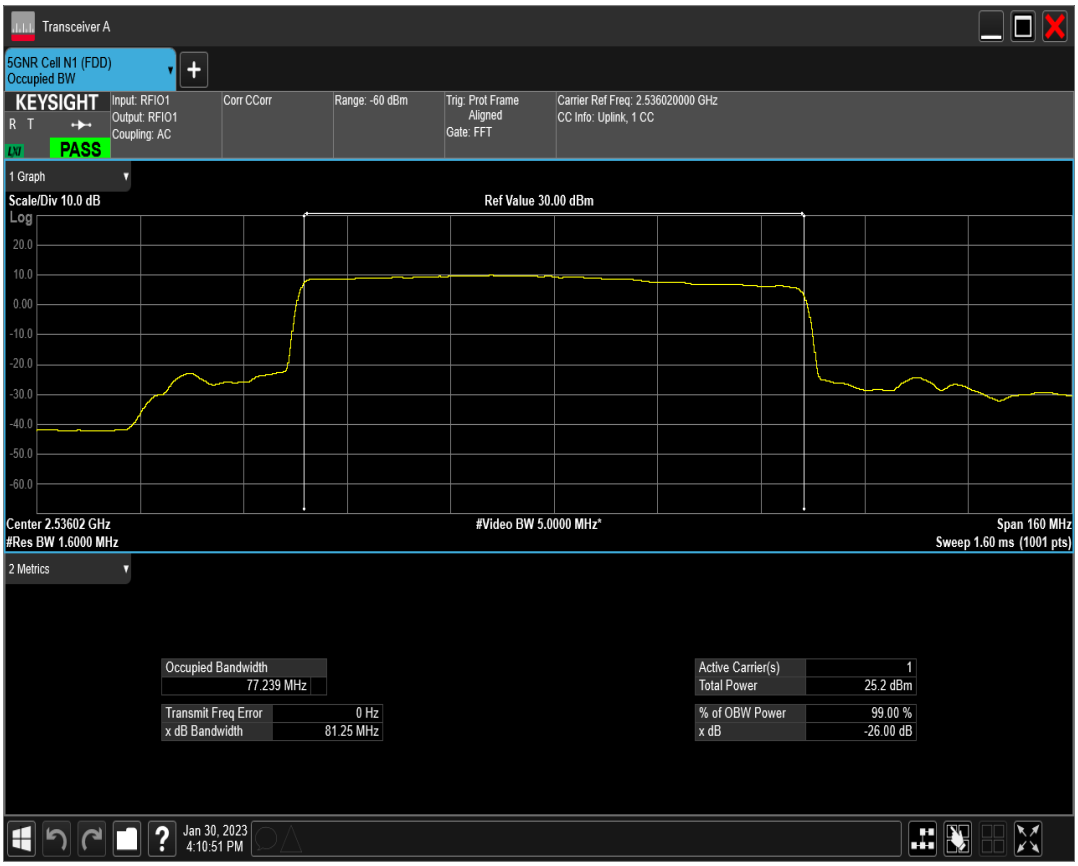

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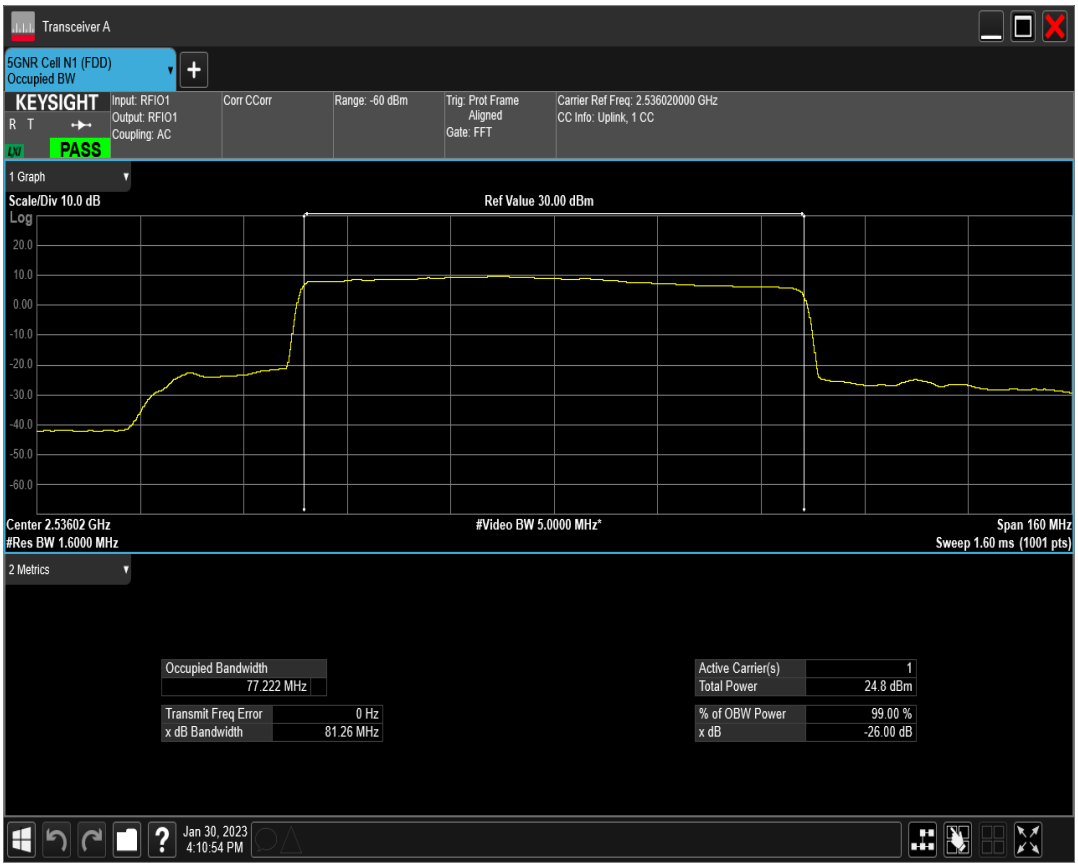

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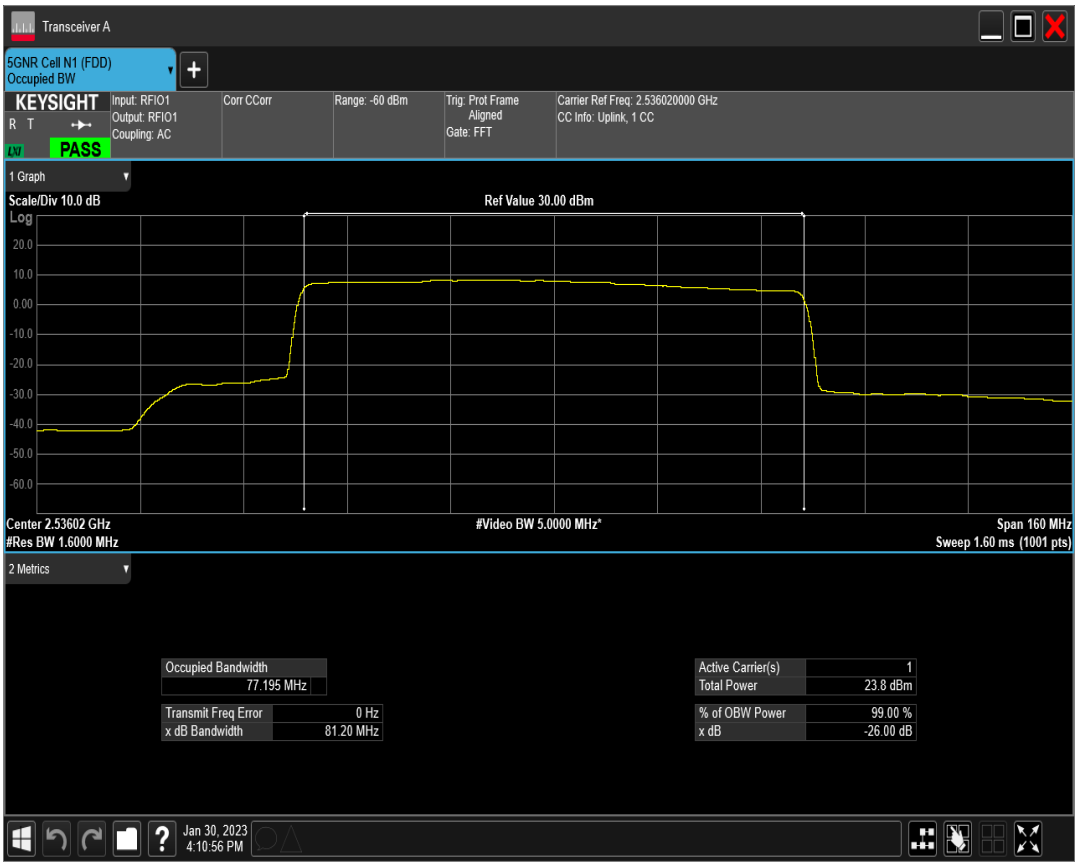

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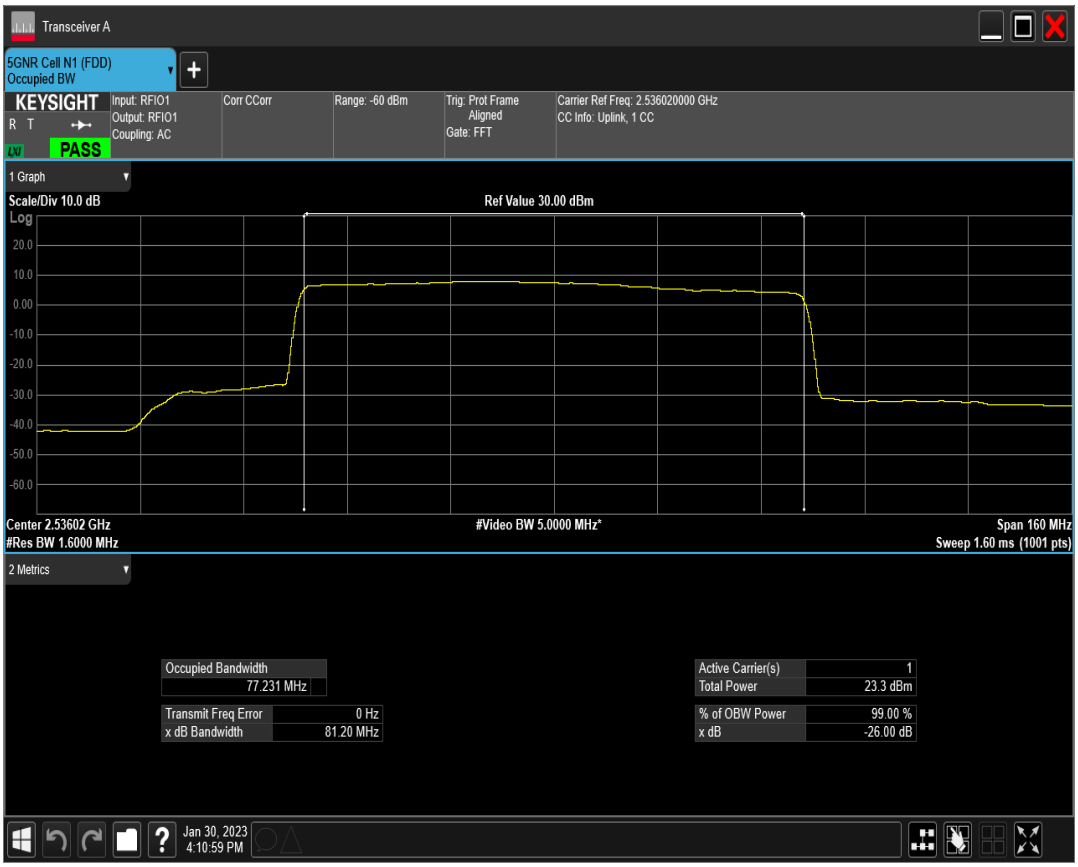

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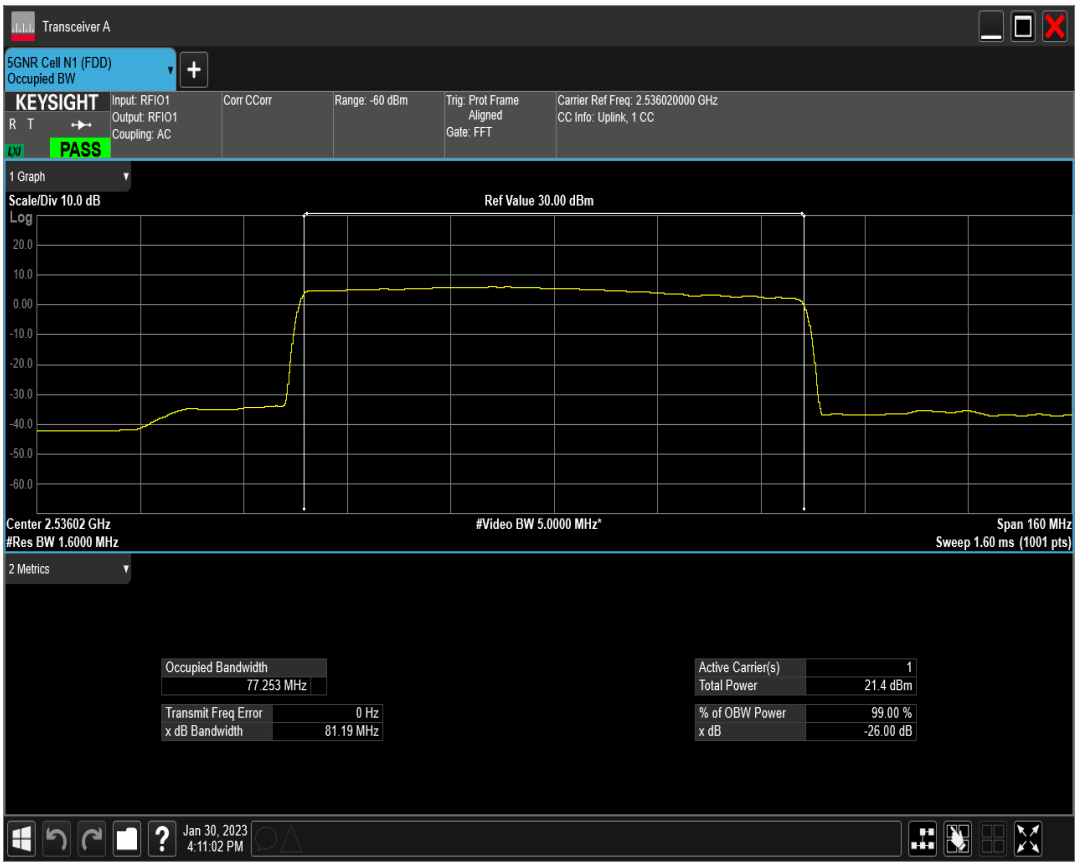
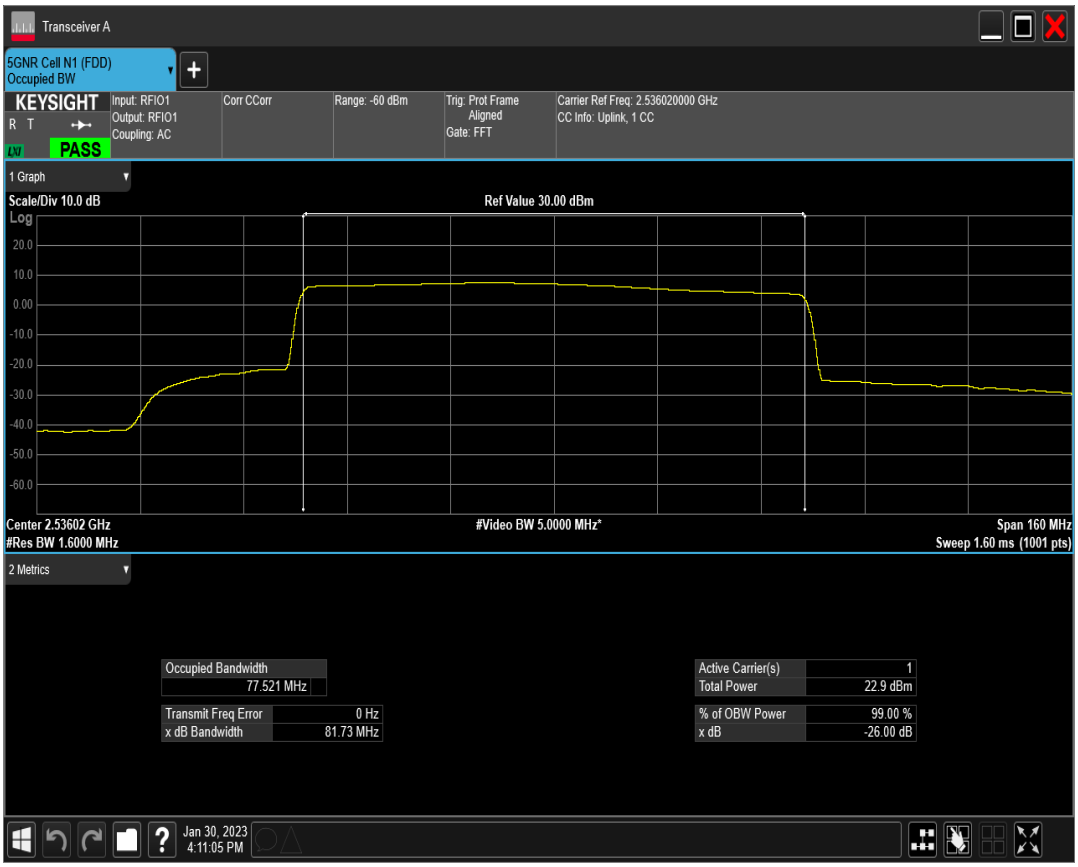


n41 SCS=30kHz CP_QPSK BW=80MHz Channel=507204 RB=217@0



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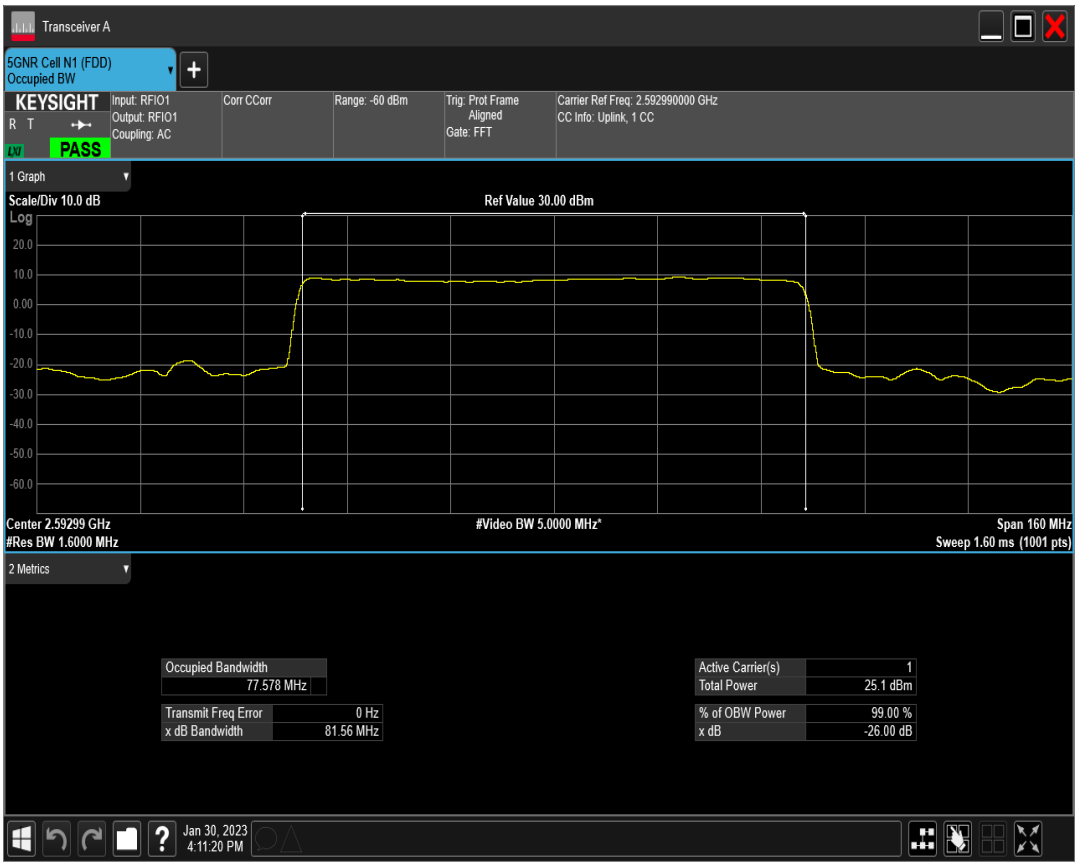

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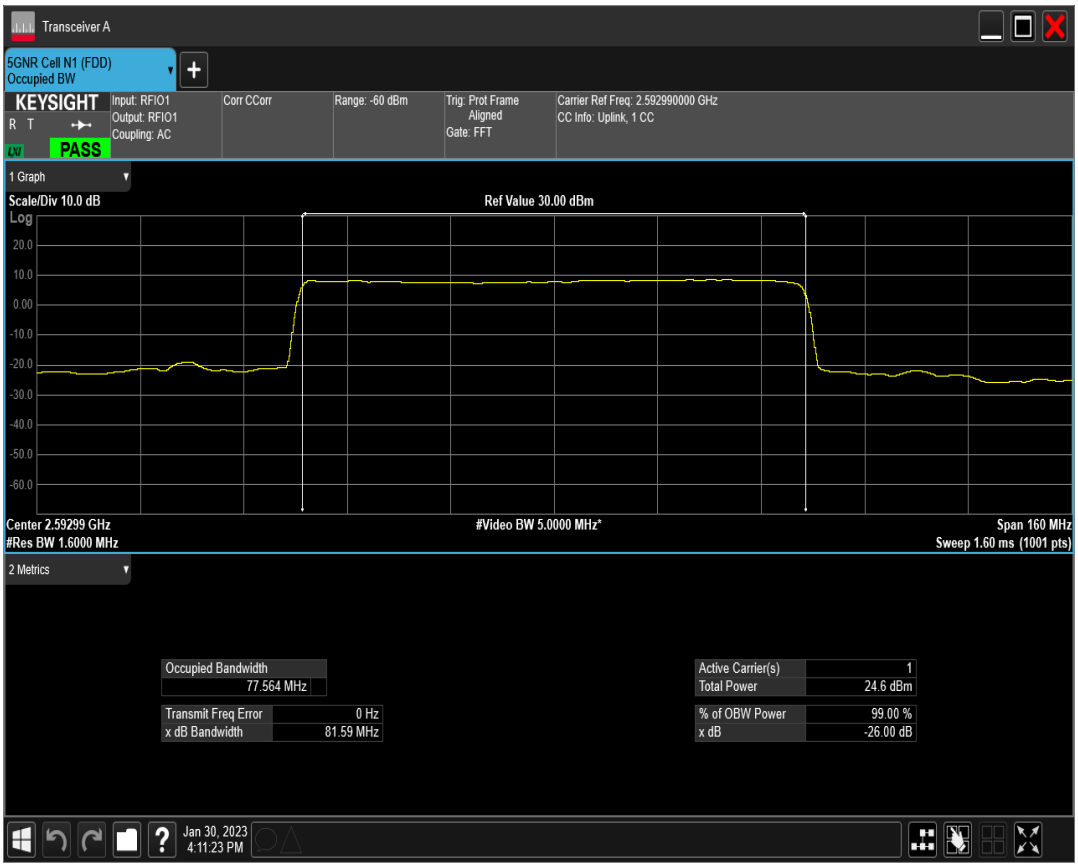

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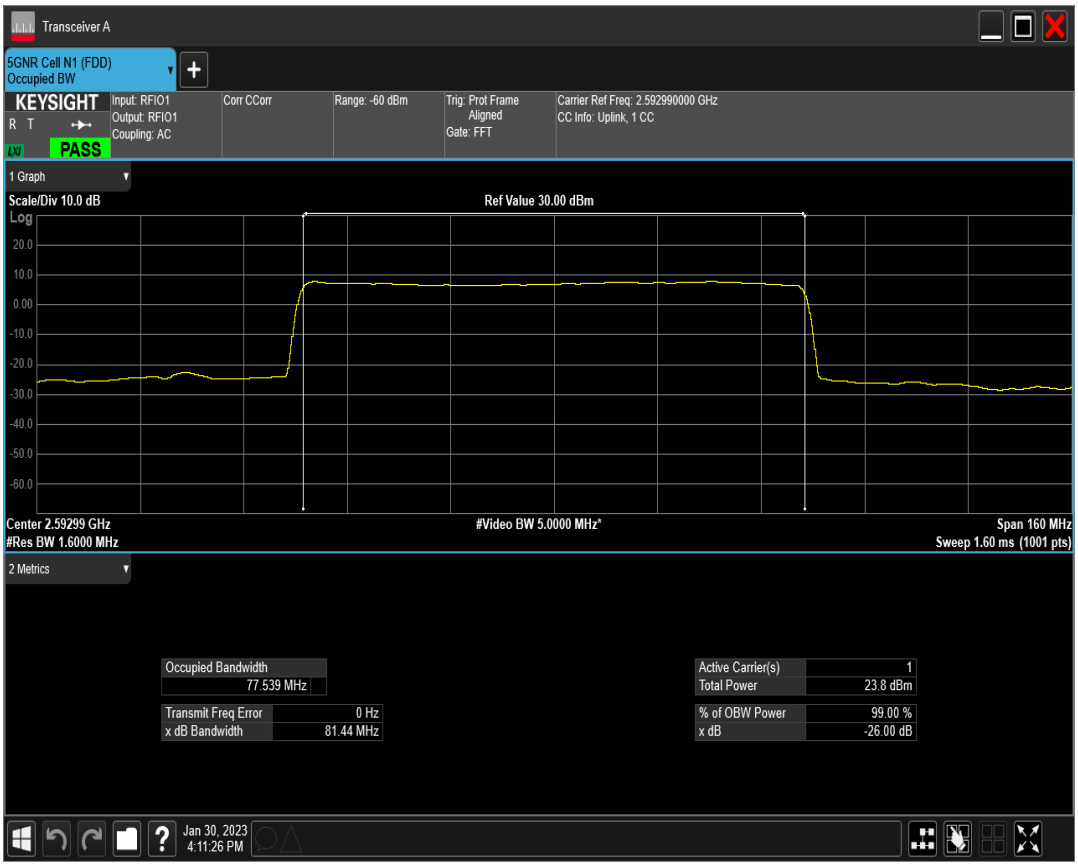

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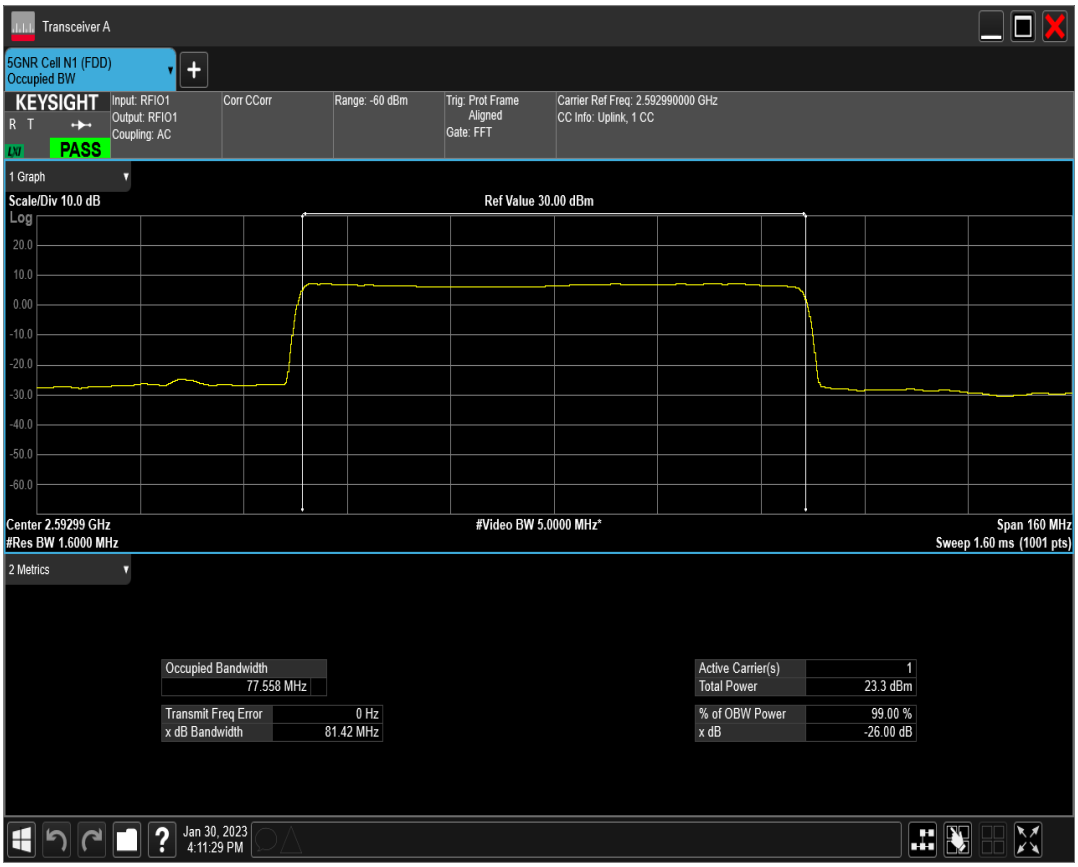

n41 SCS=30kHz DFT_QAM256 BW=80MHz Channel=518598 RB=216@0

n41 SCS=30kHz CP_QPSK BW=80MHz Channel=518598 RB=217@0

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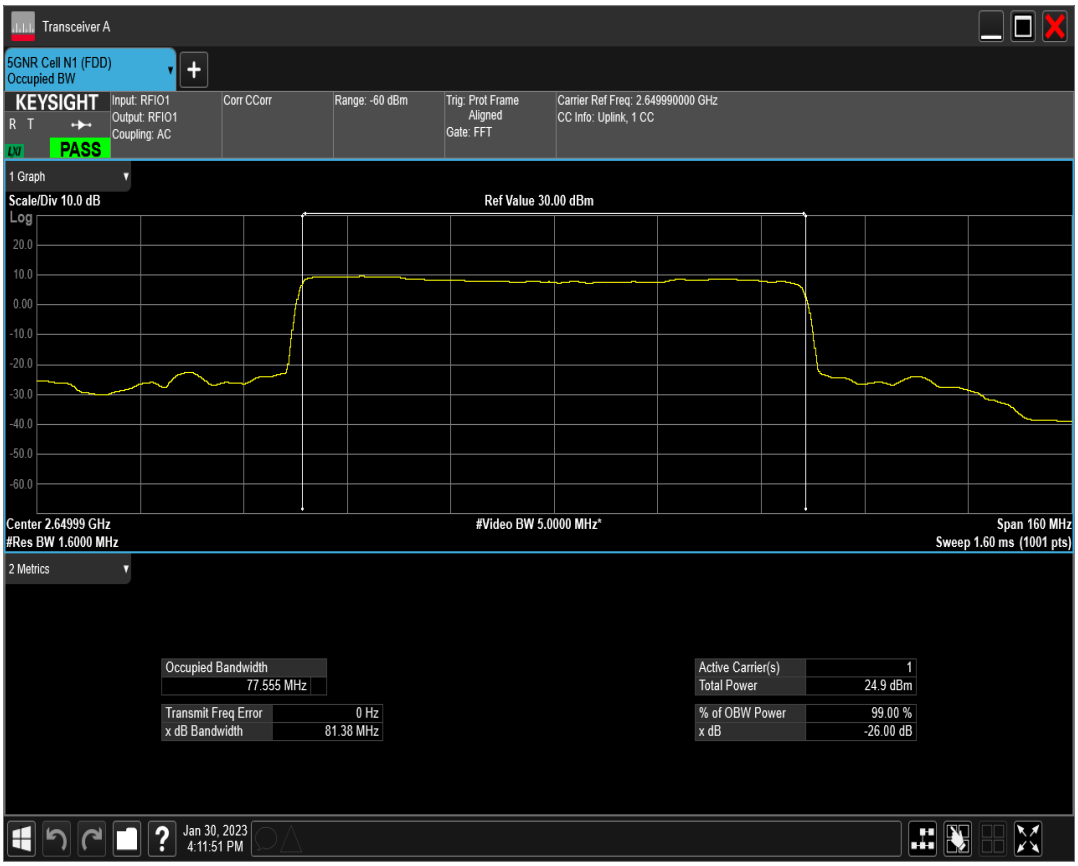
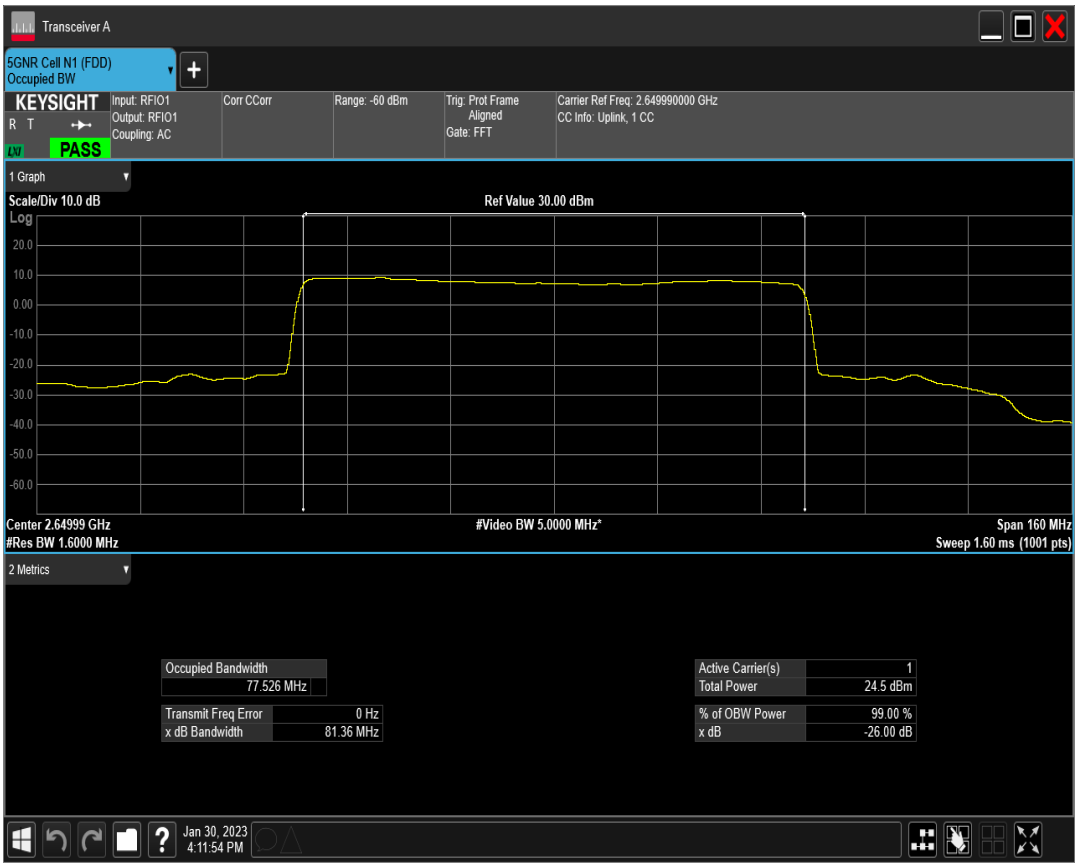


n41 SCS=30kHz DFT_QPSK BW=80MHz Channel=529998 RB=216@0



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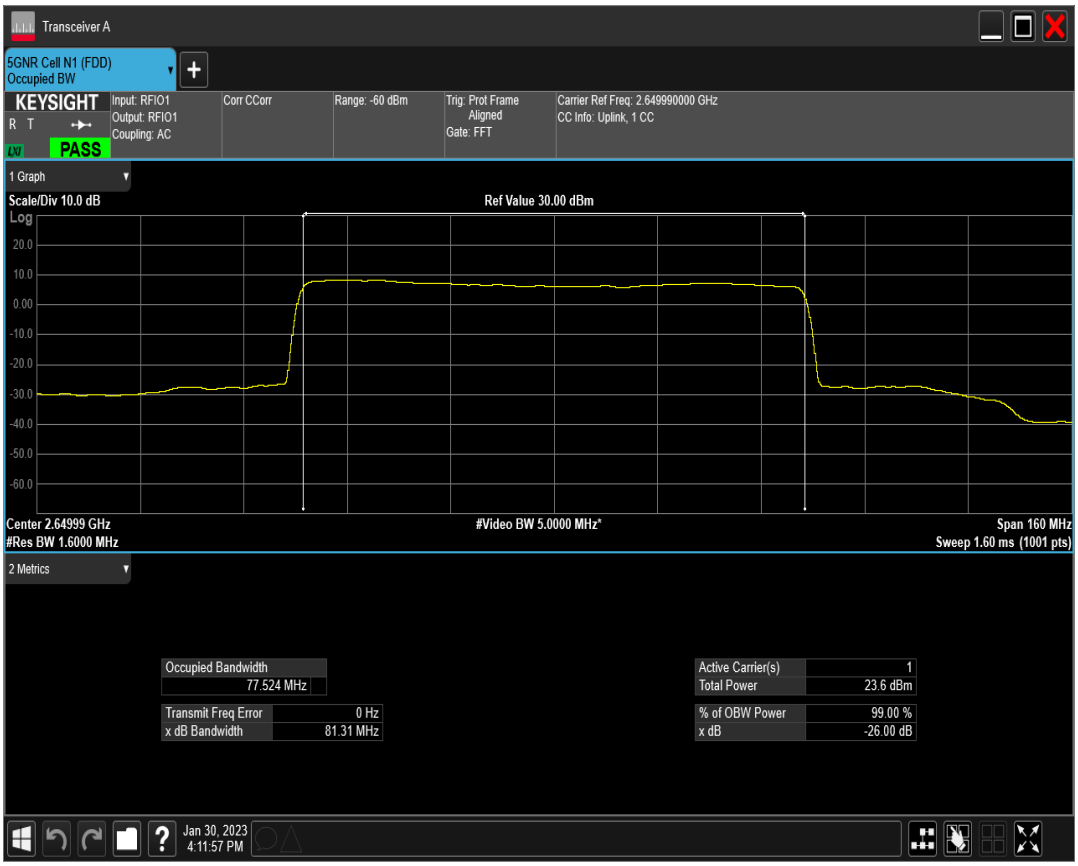

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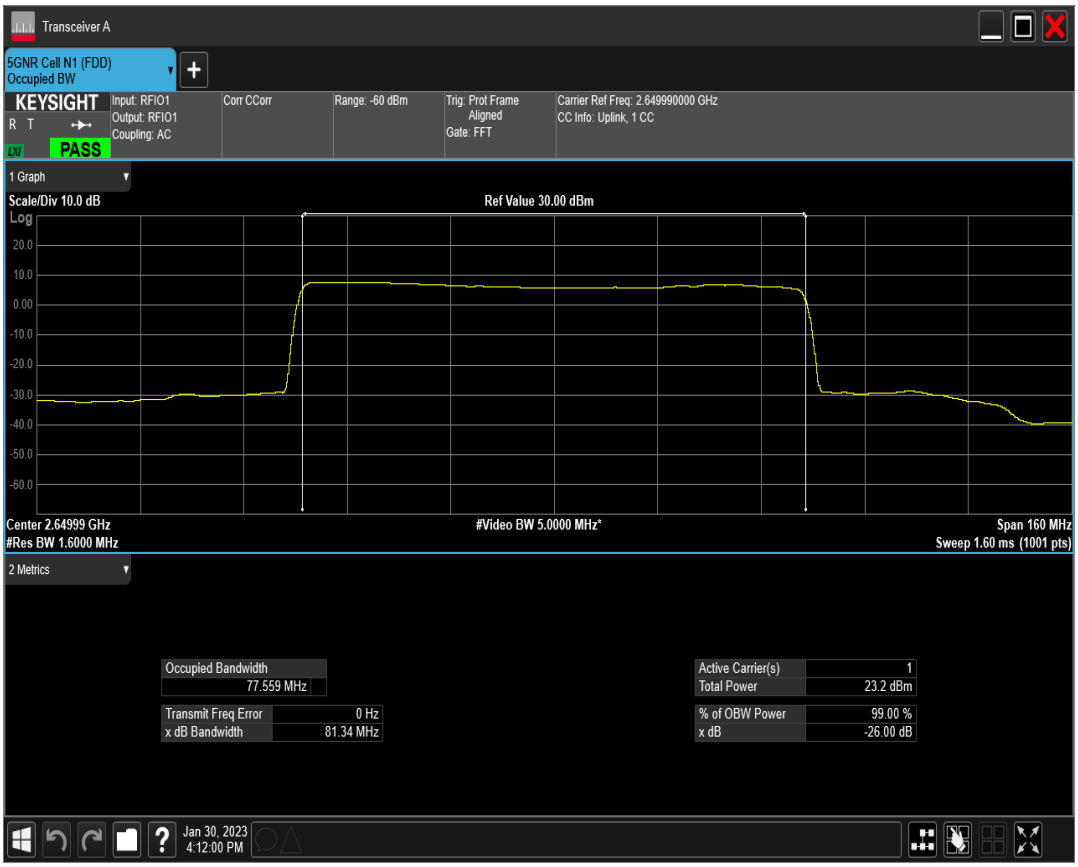

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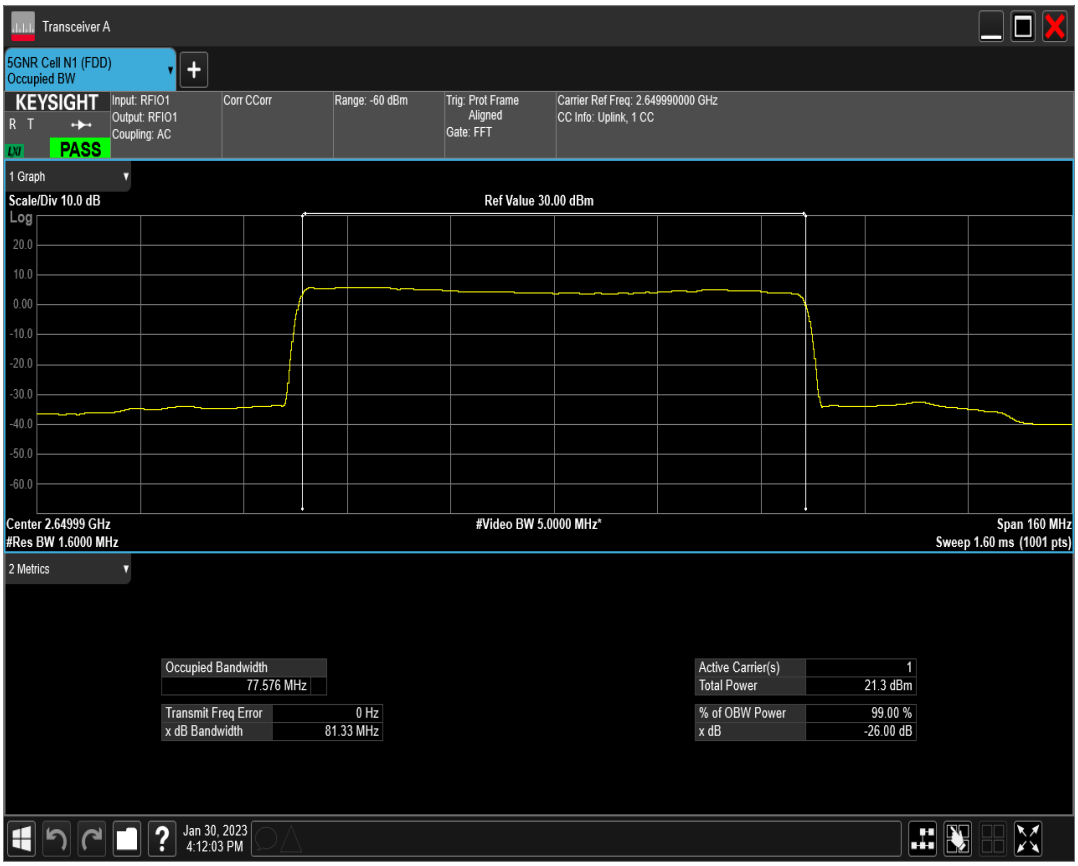
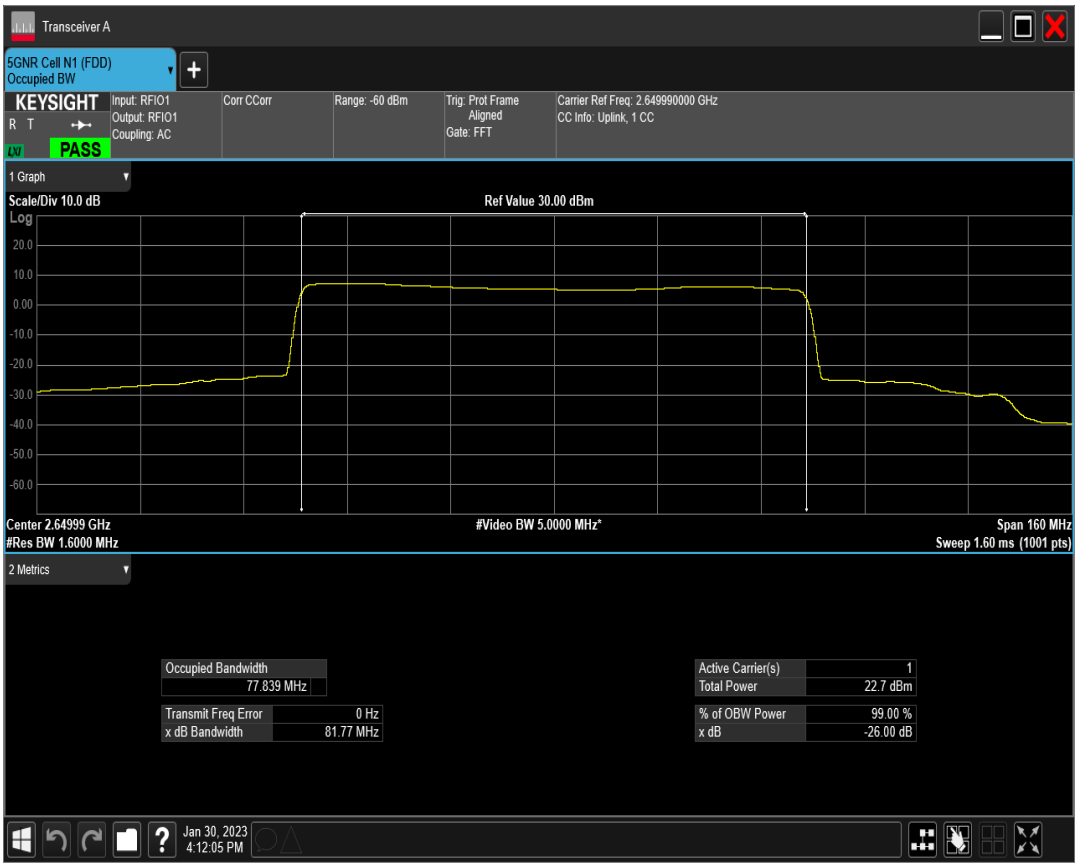


n41 SCS=30kHz CP_QPSK BW=80MHz Channel=529998 RB=217@0



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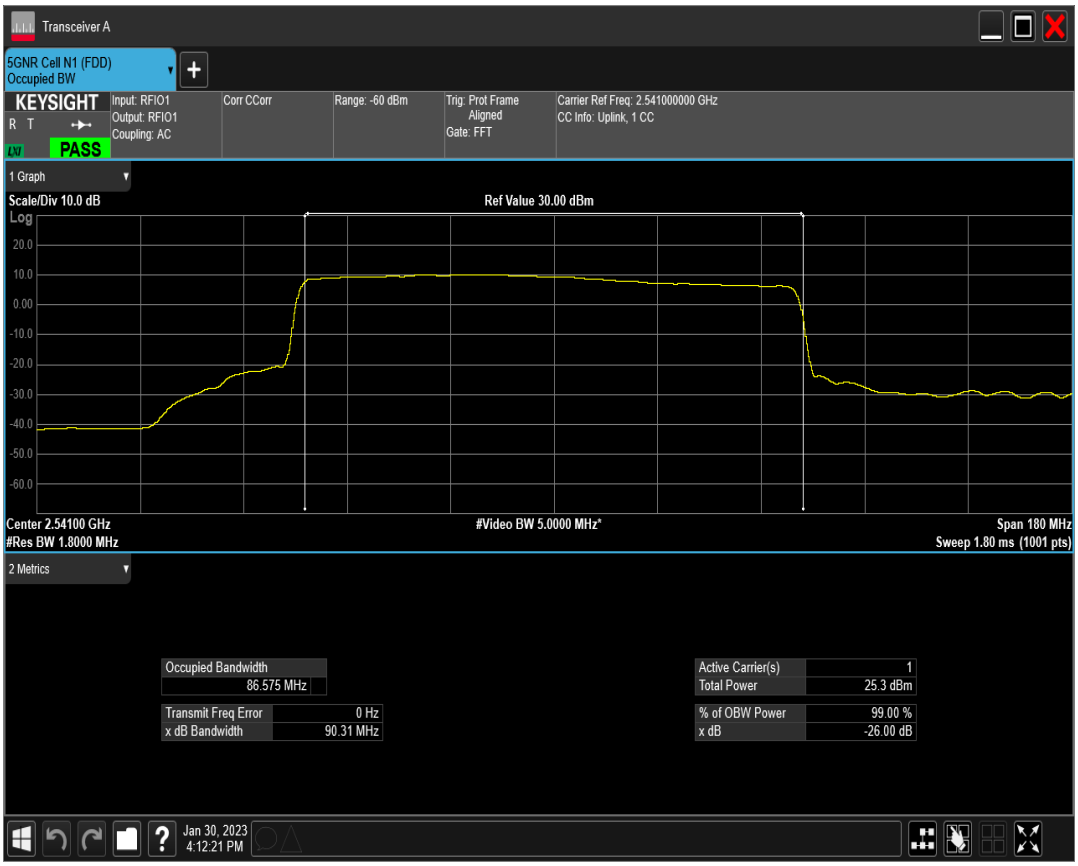

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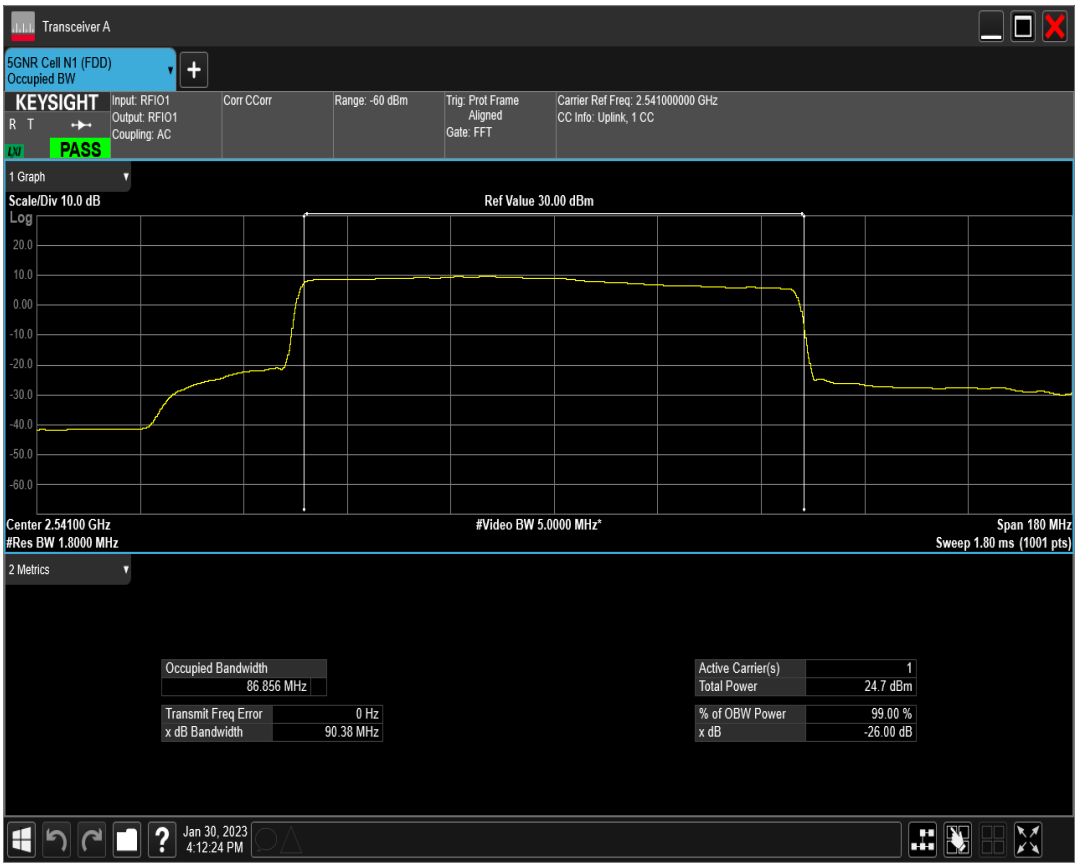

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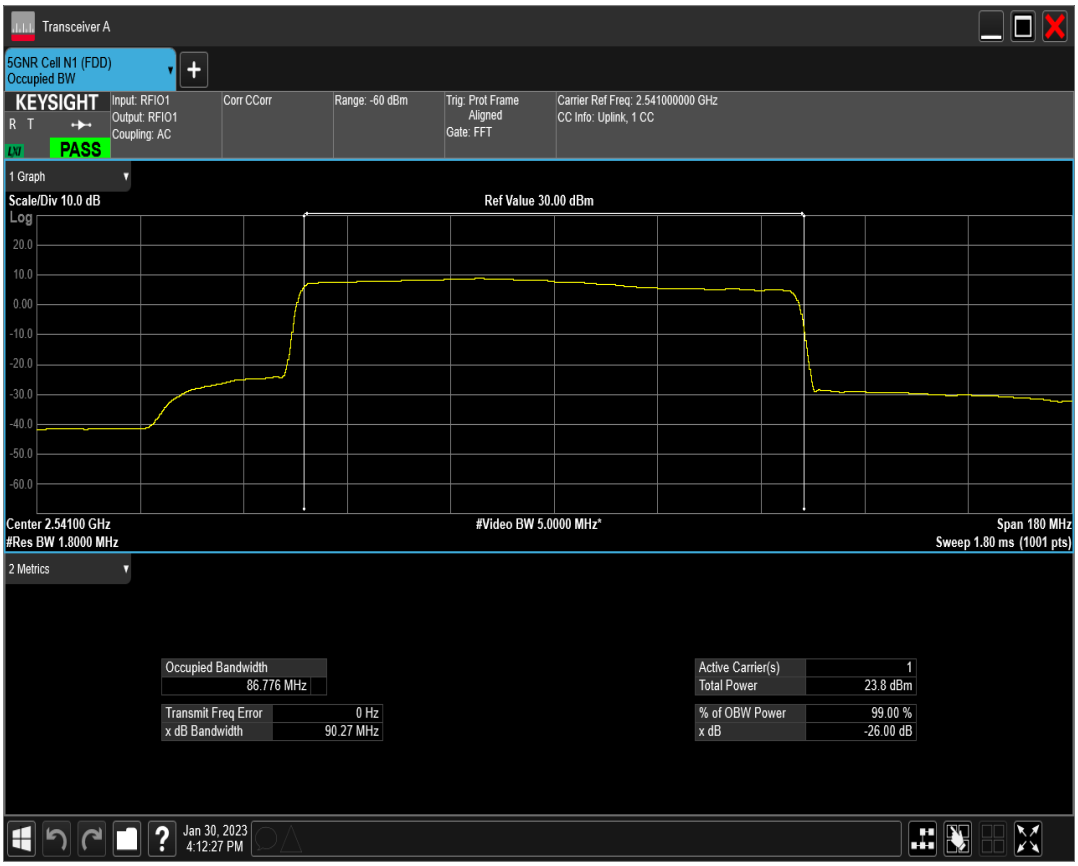

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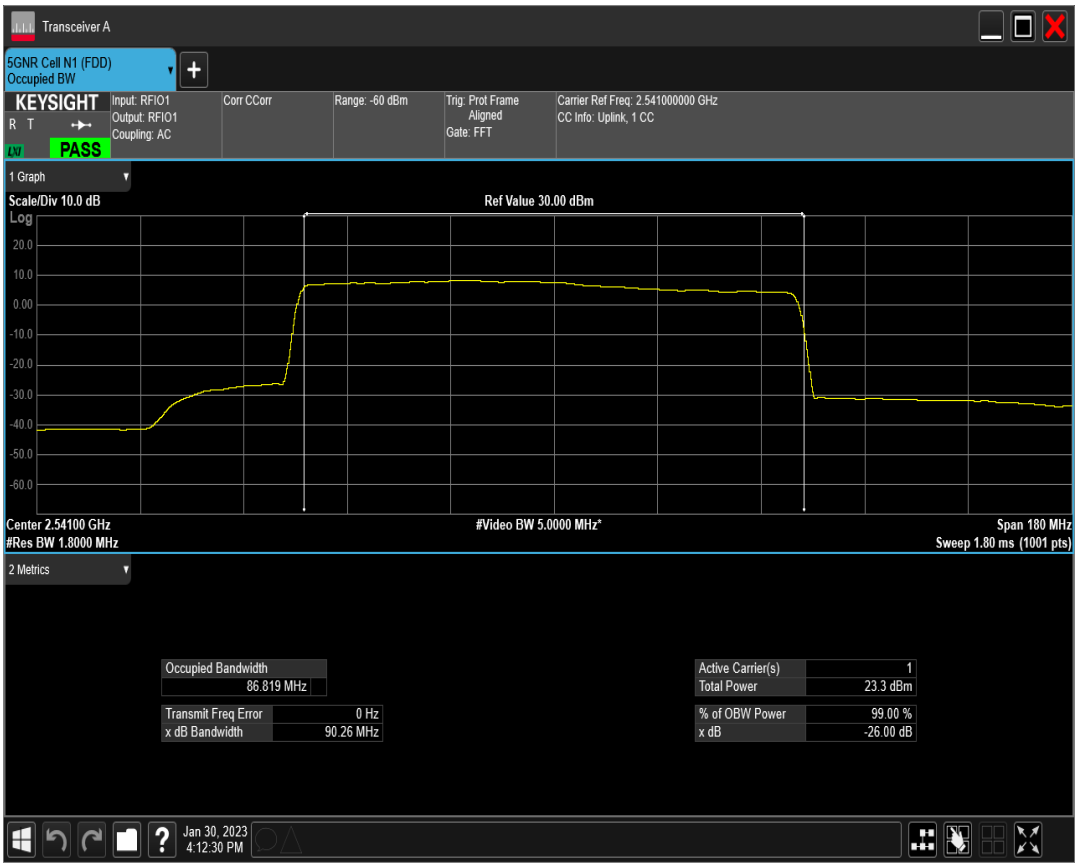

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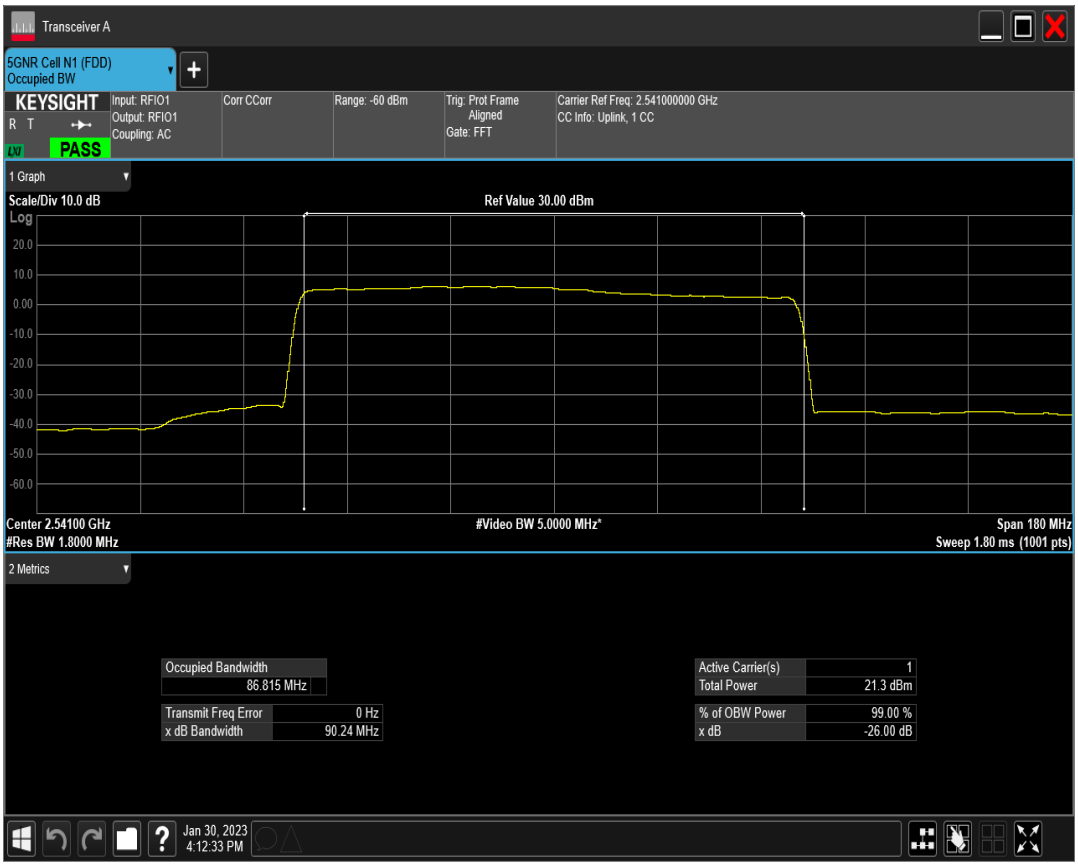

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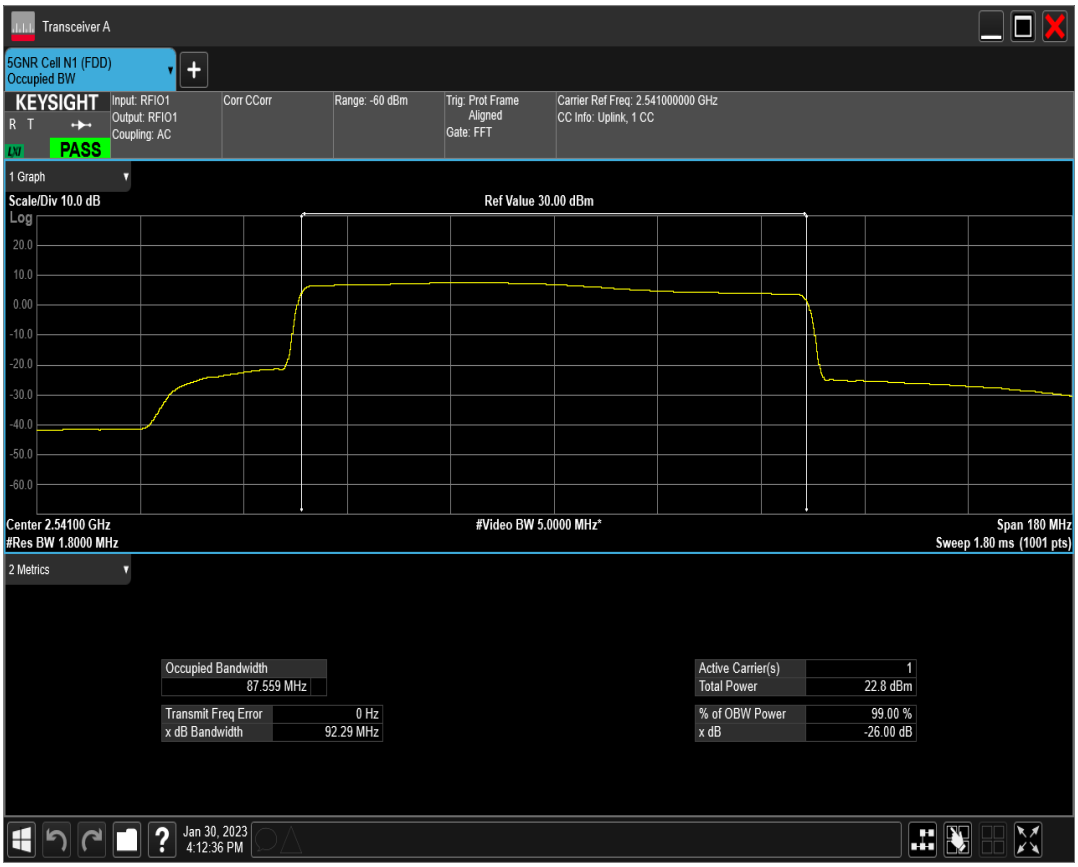

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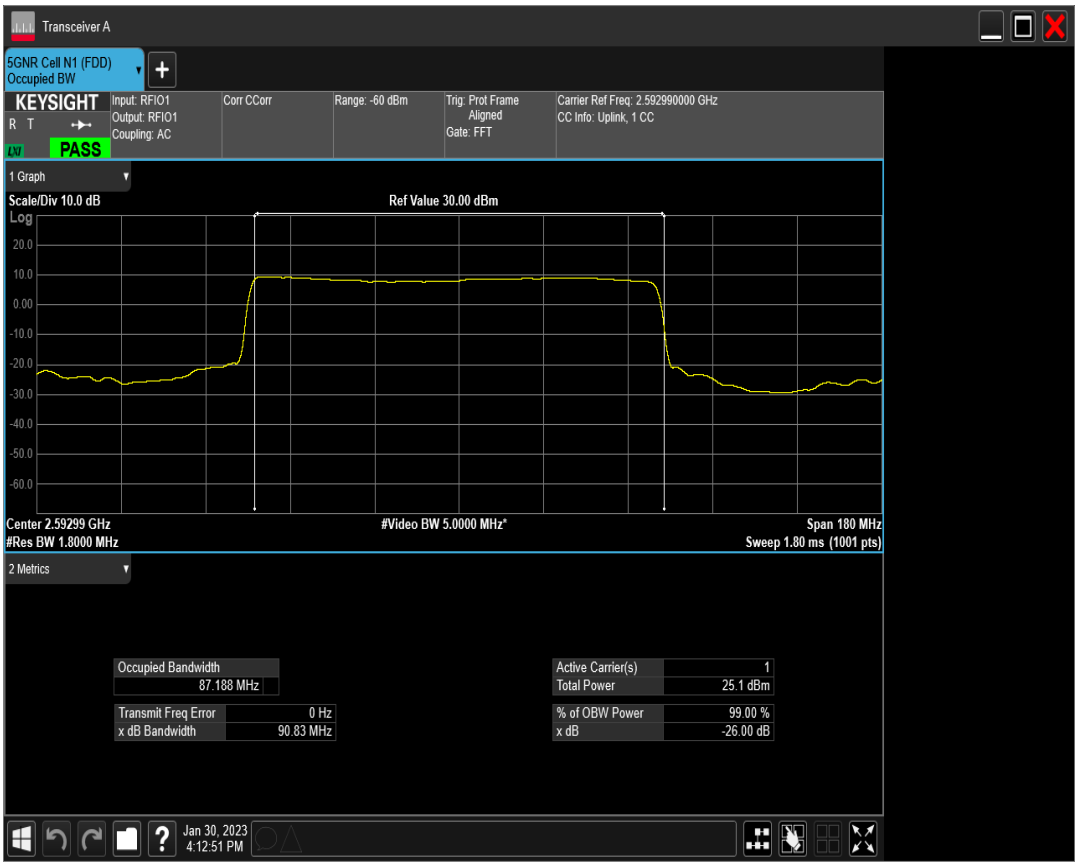

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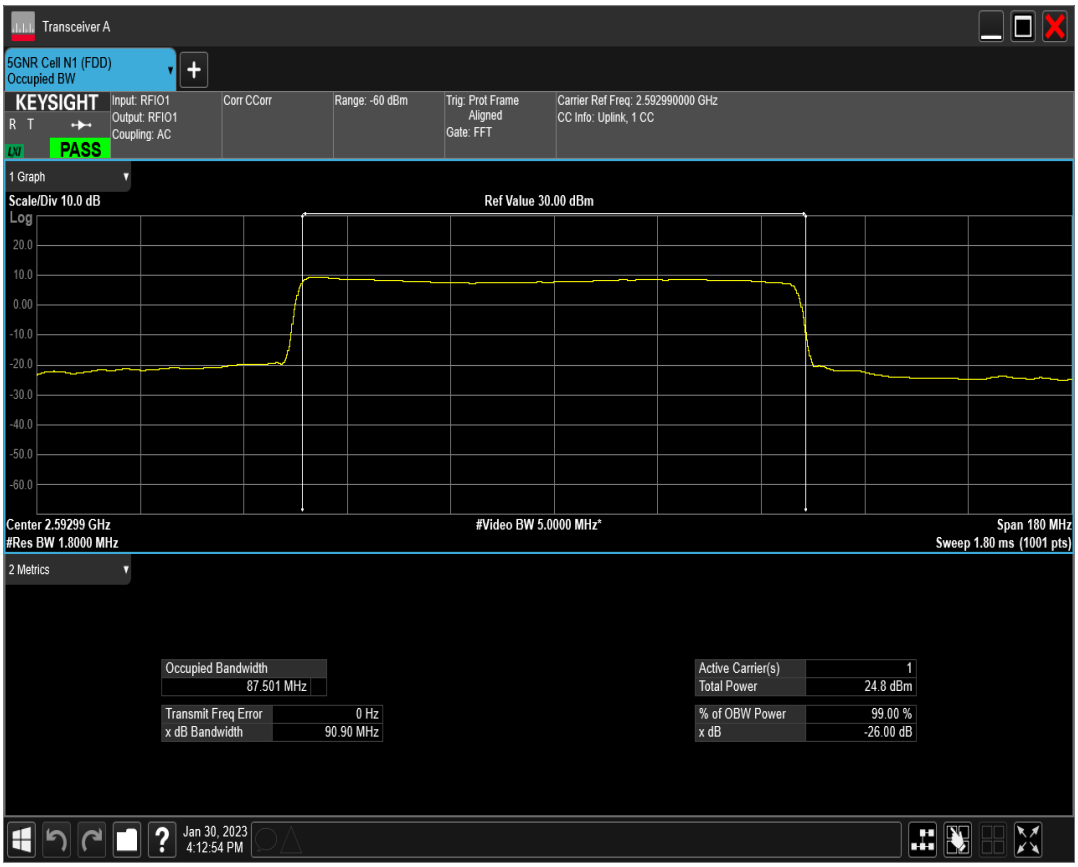

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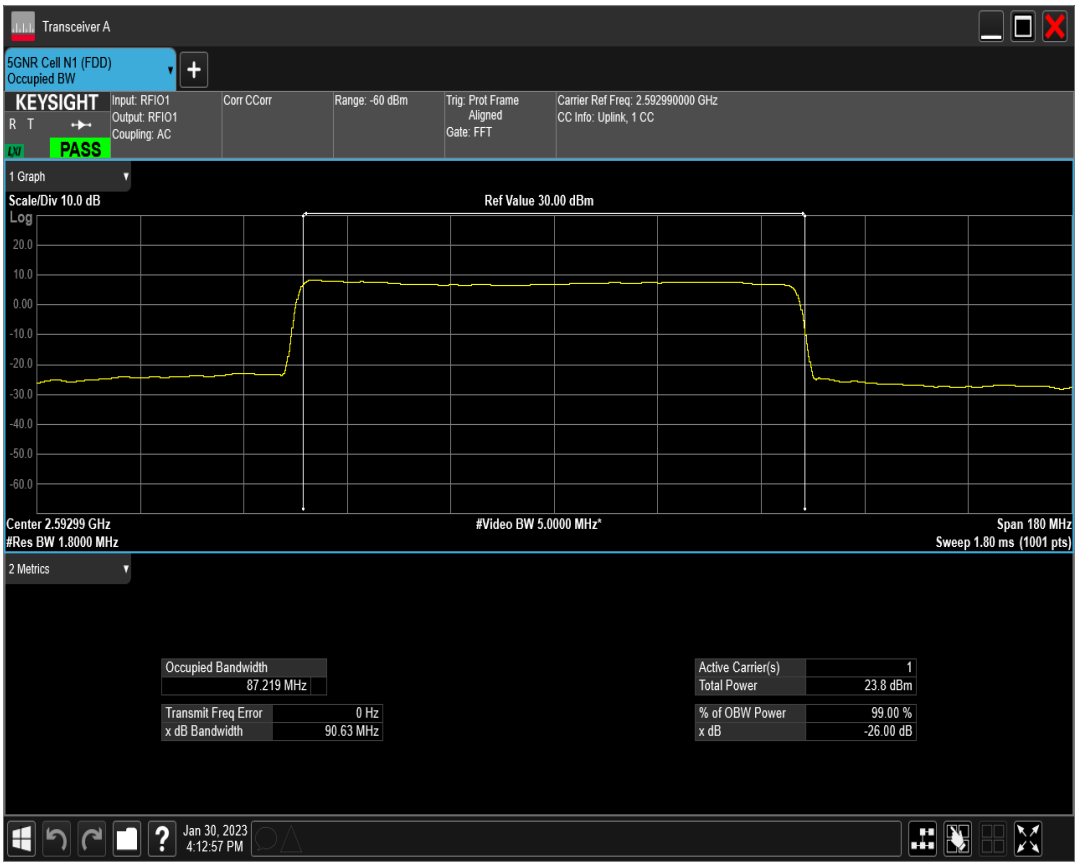

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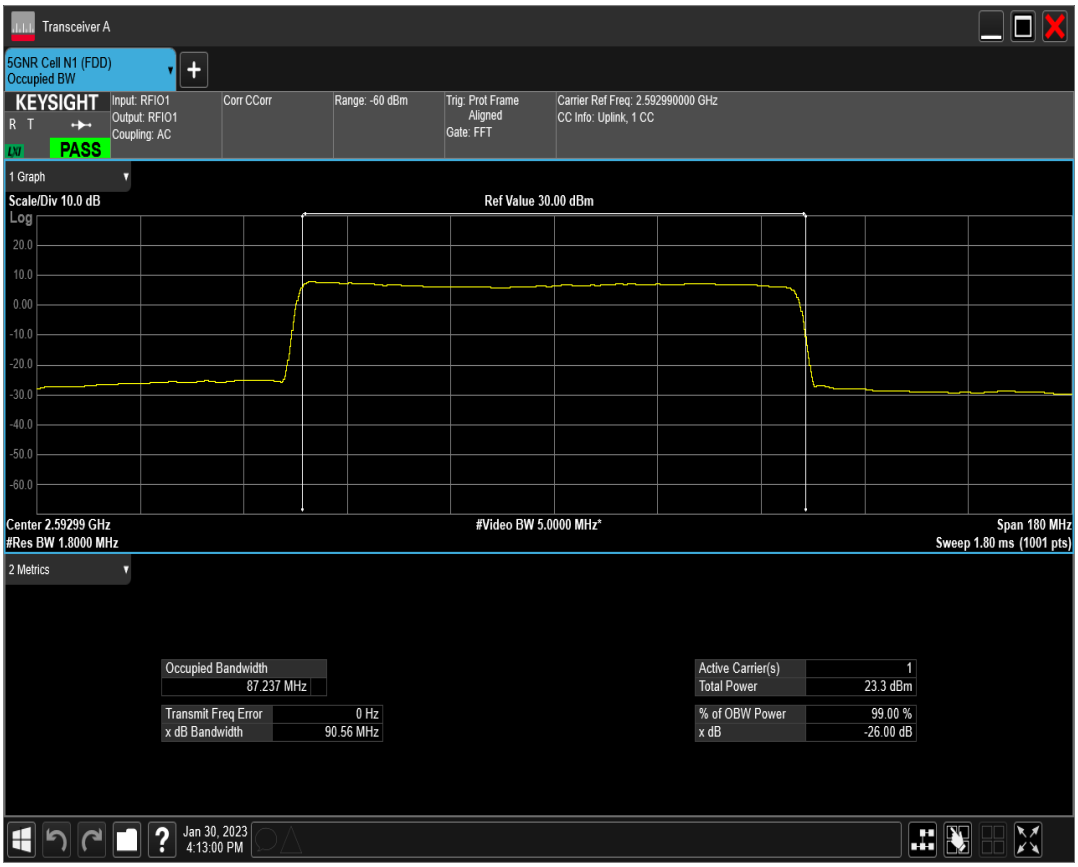

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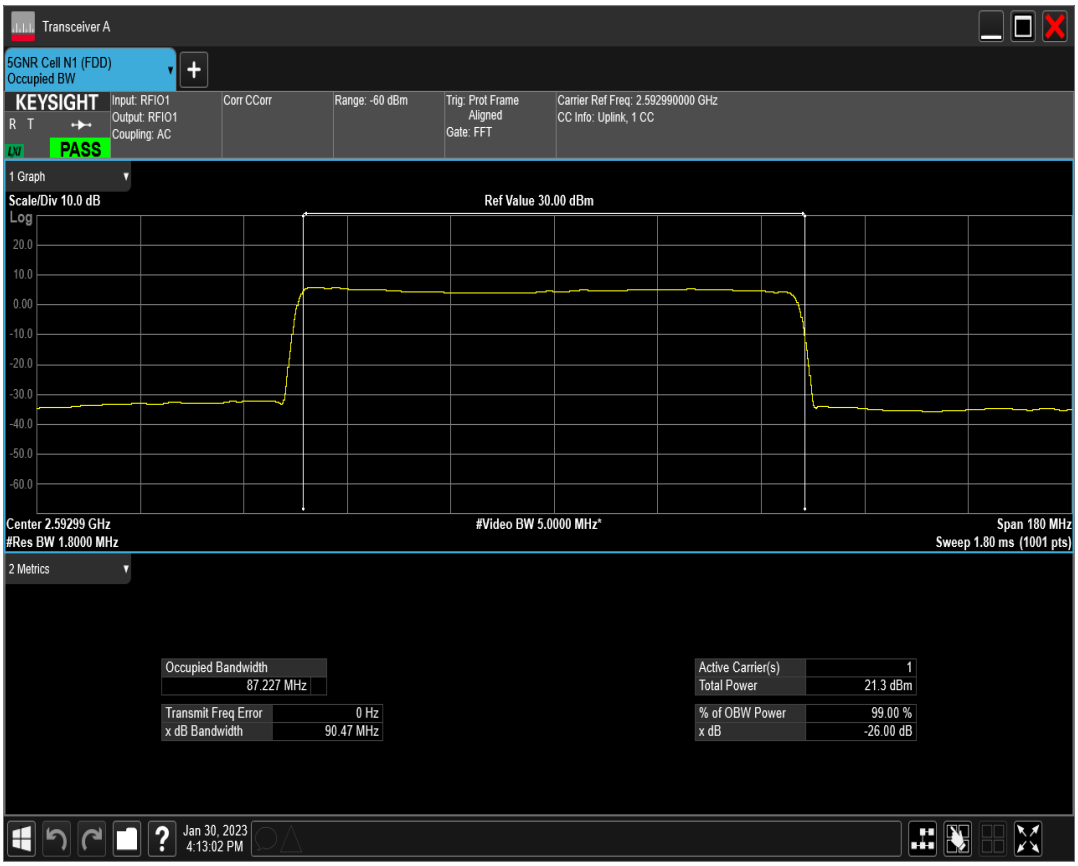

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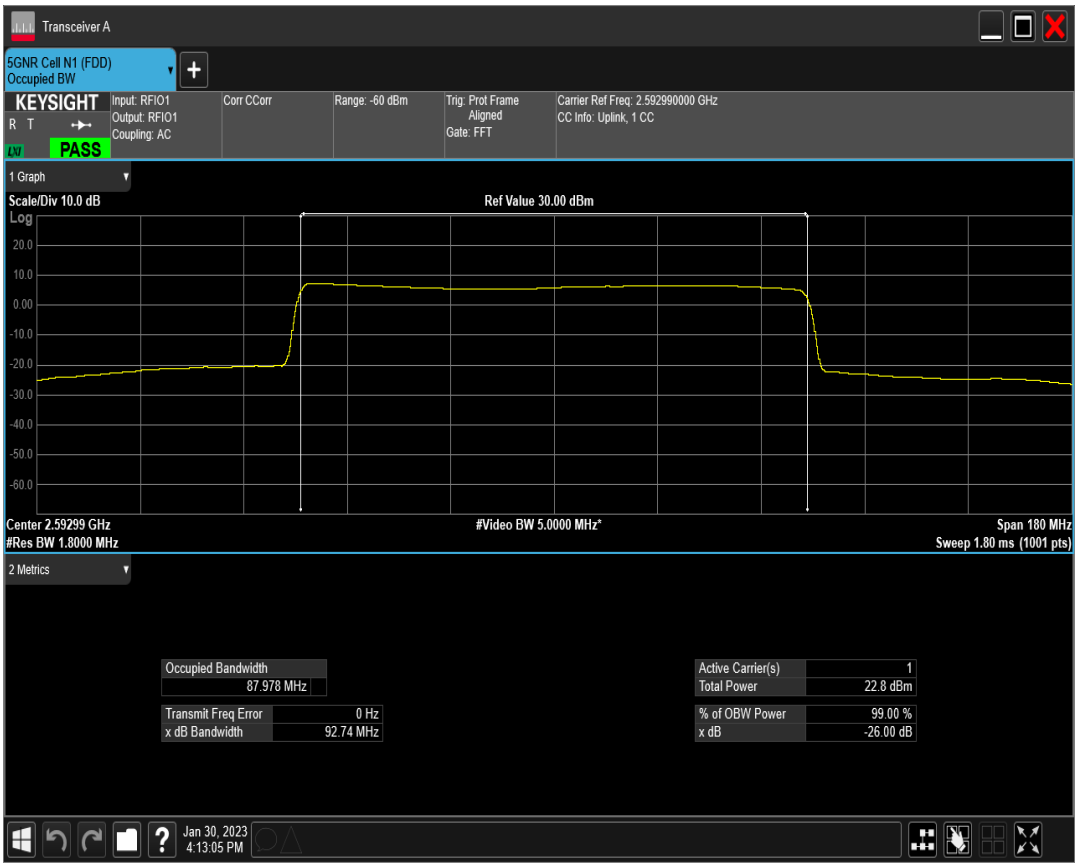

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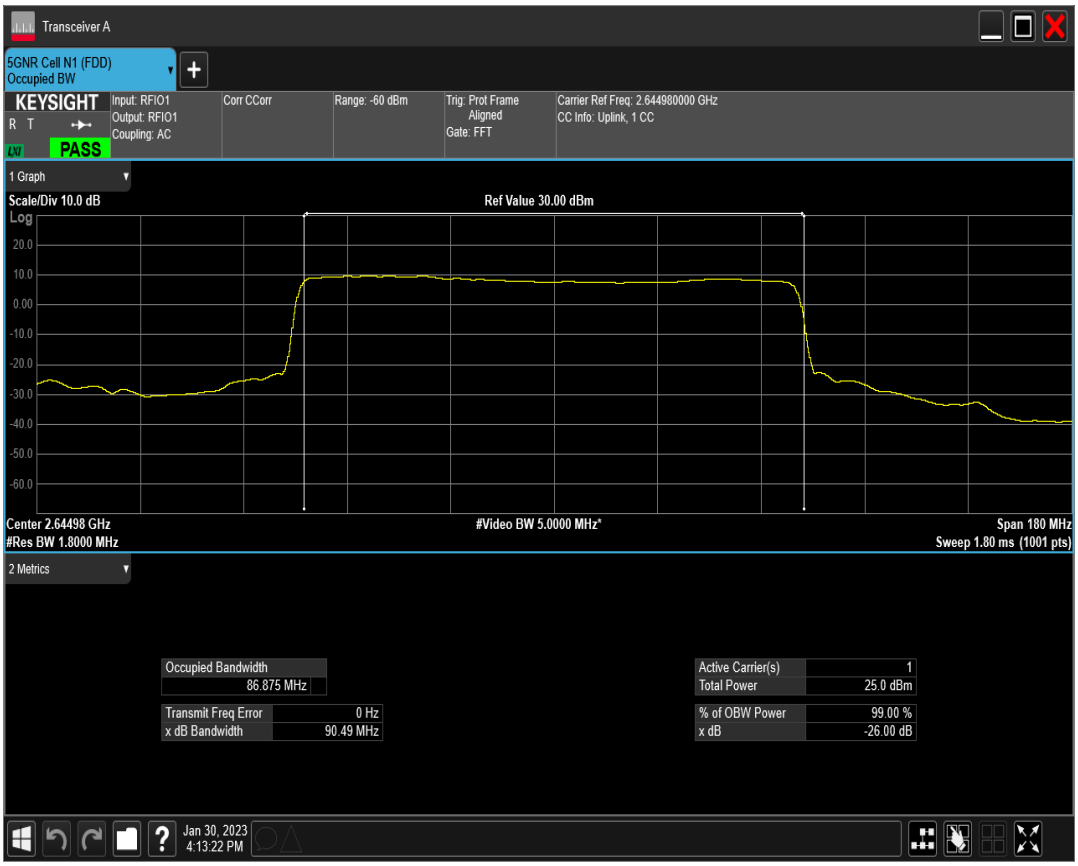

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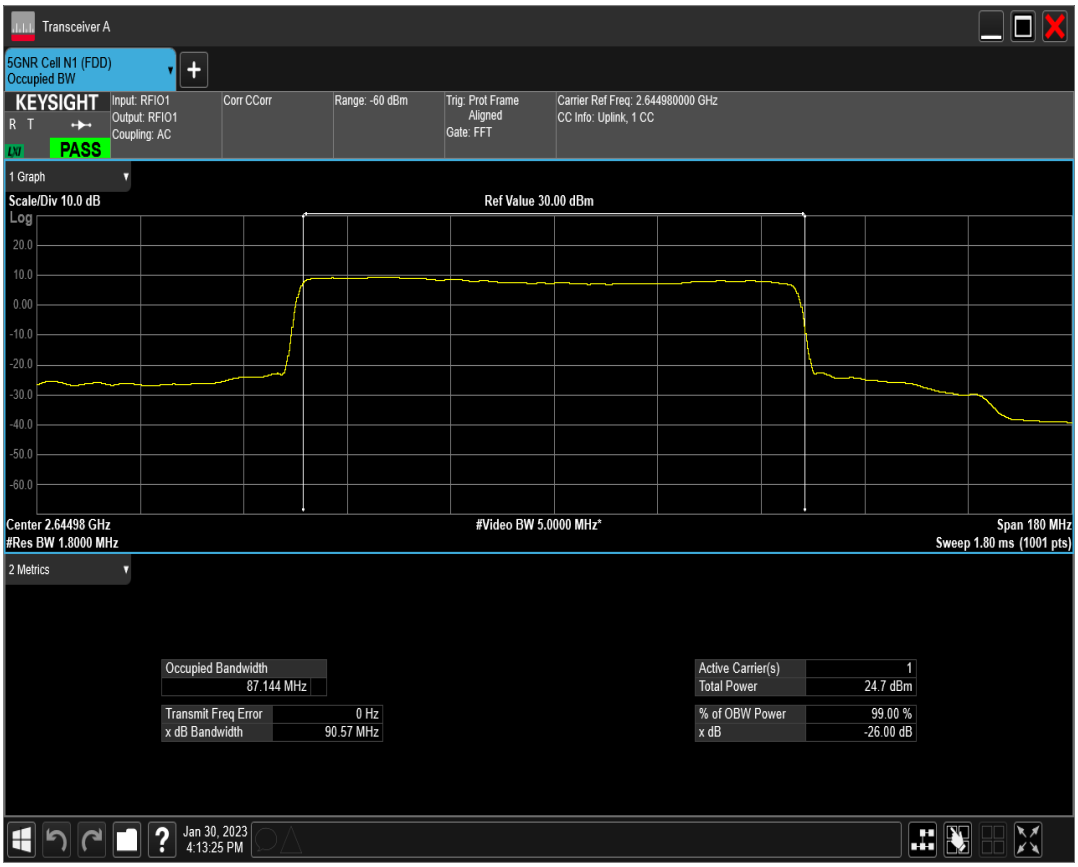

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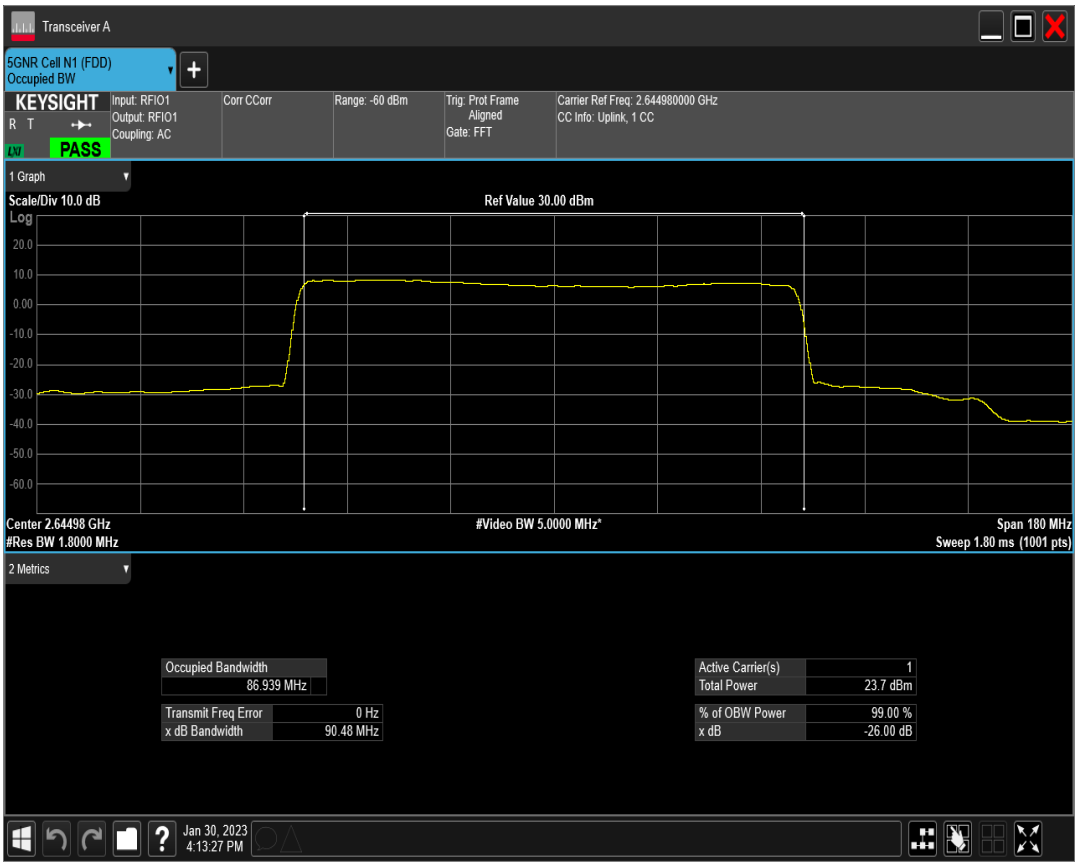

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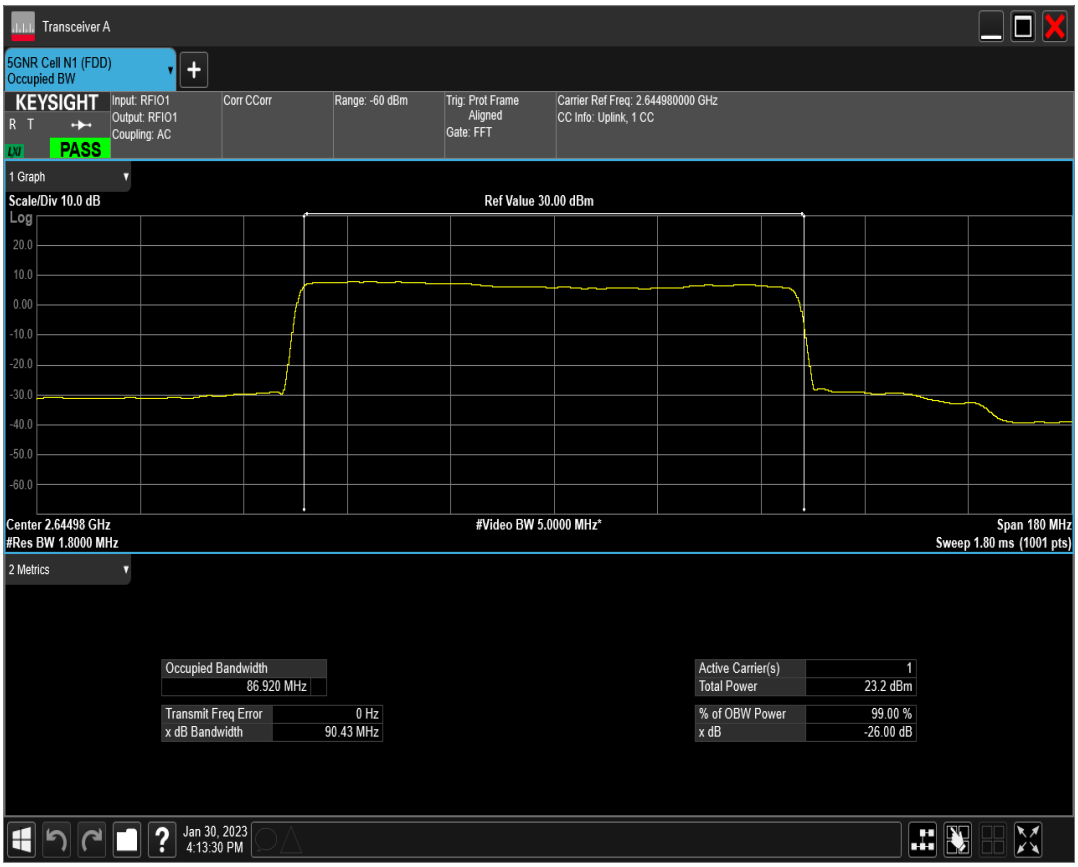

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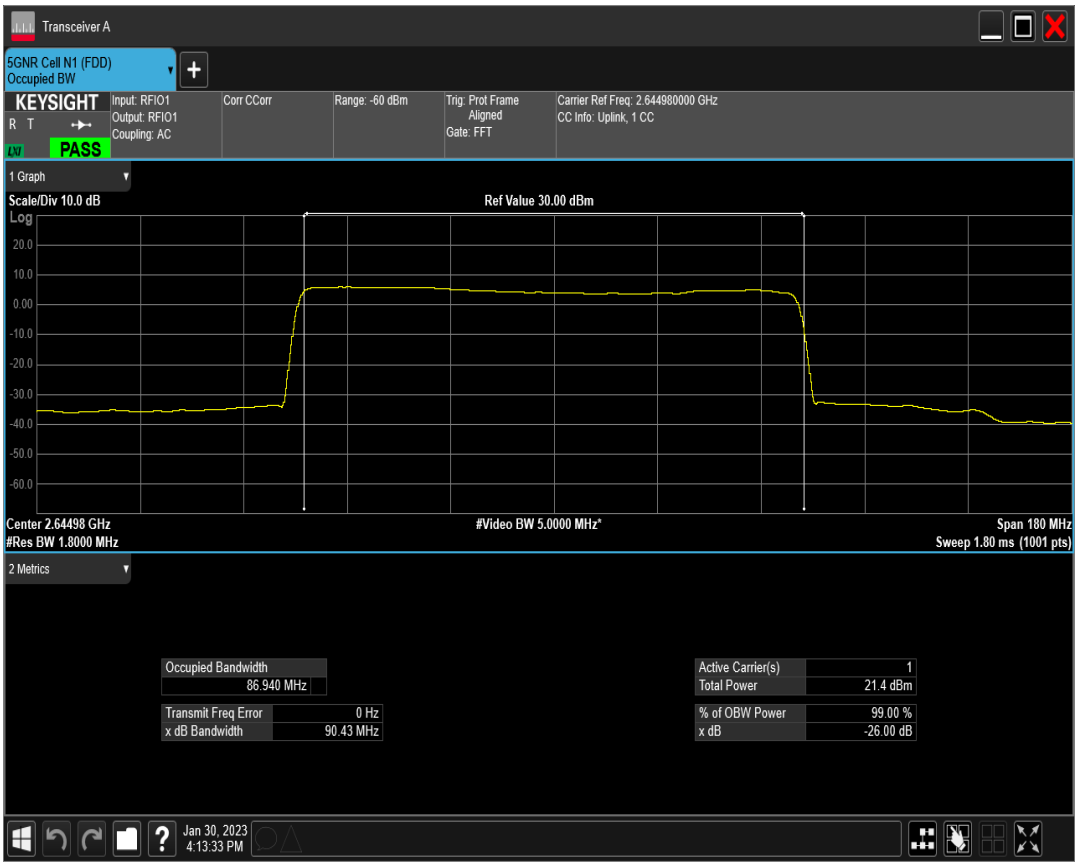
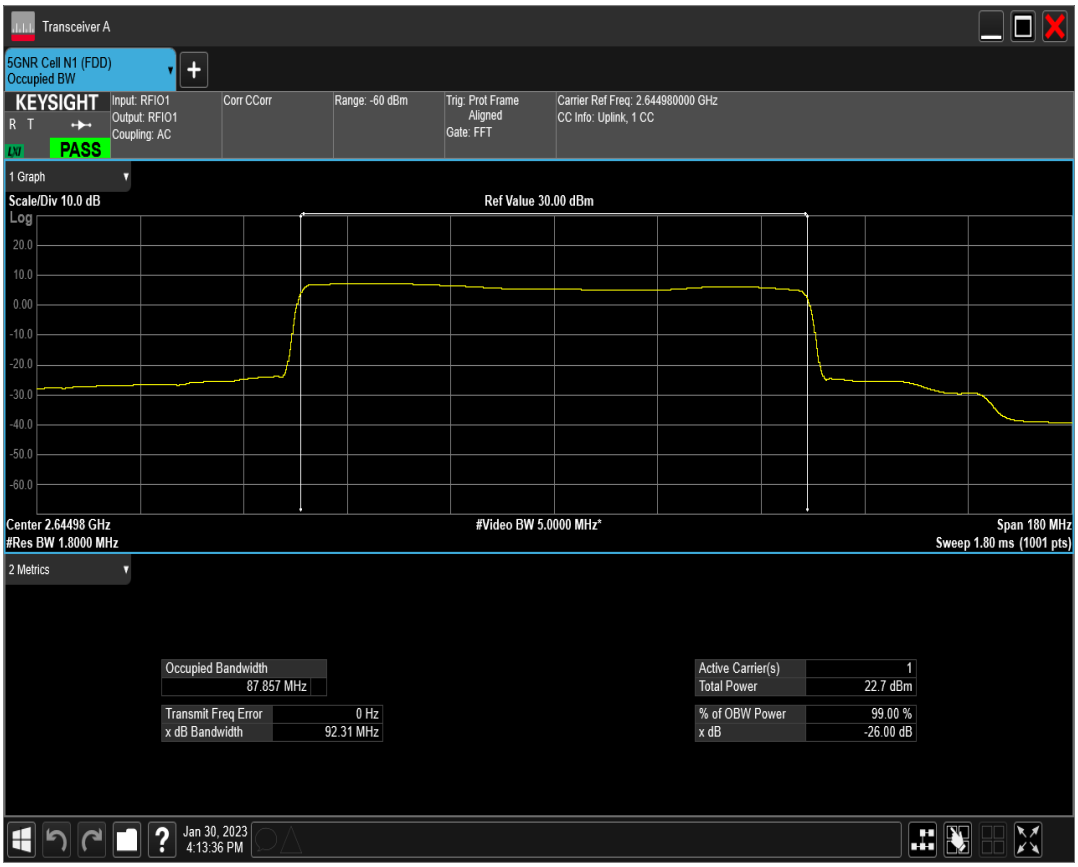


n41 SCS=30kHz CP_QPSK BW=90MHz Channel=528996 RB=245@0



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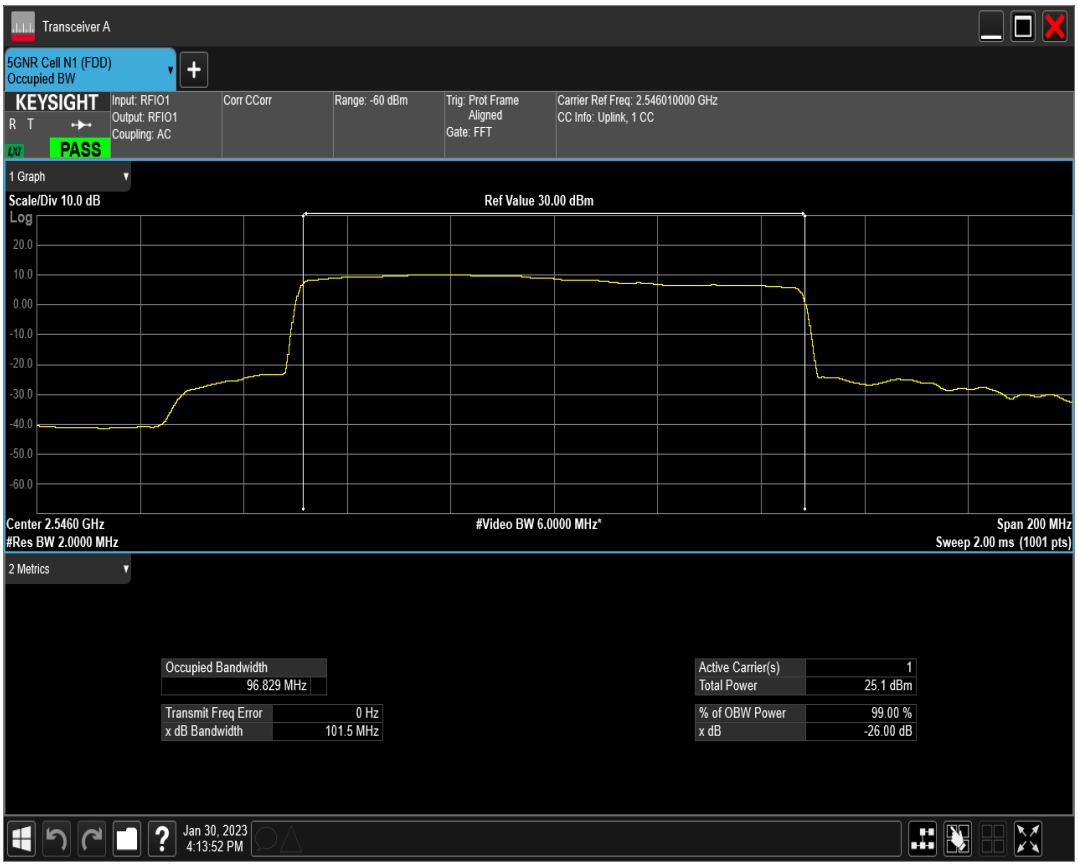
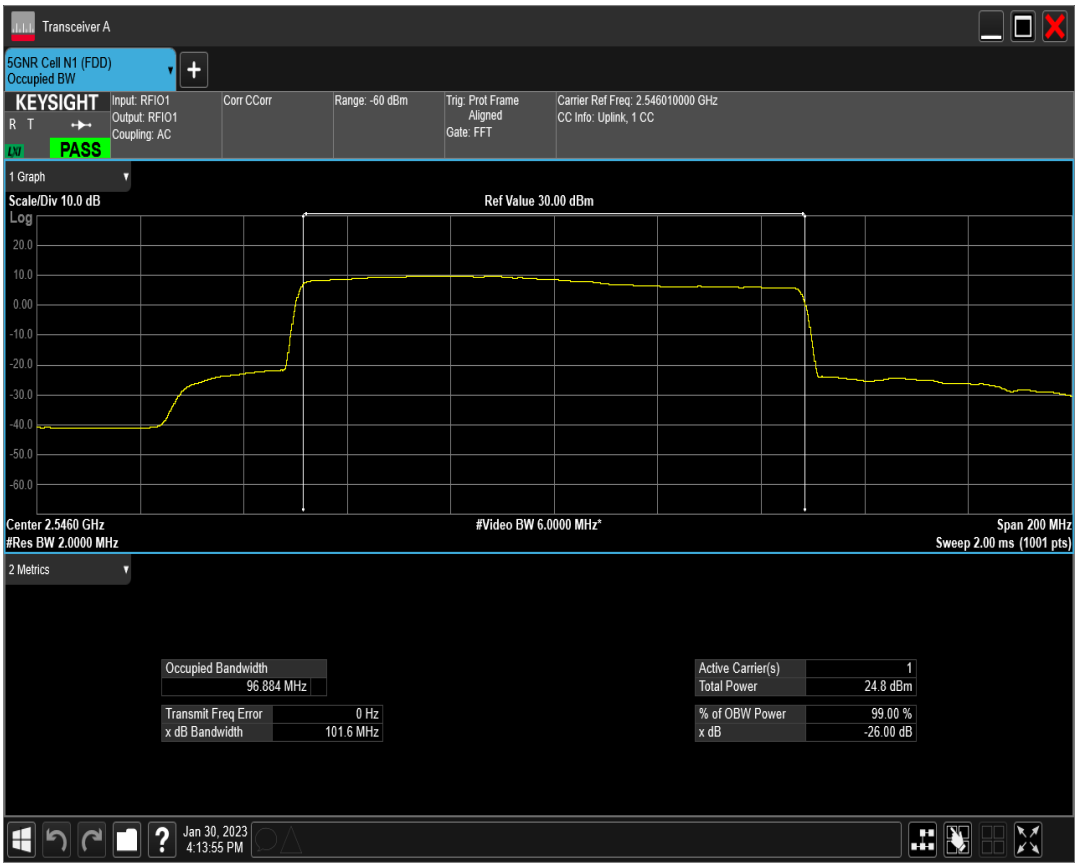


n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=509202 RB=270@0



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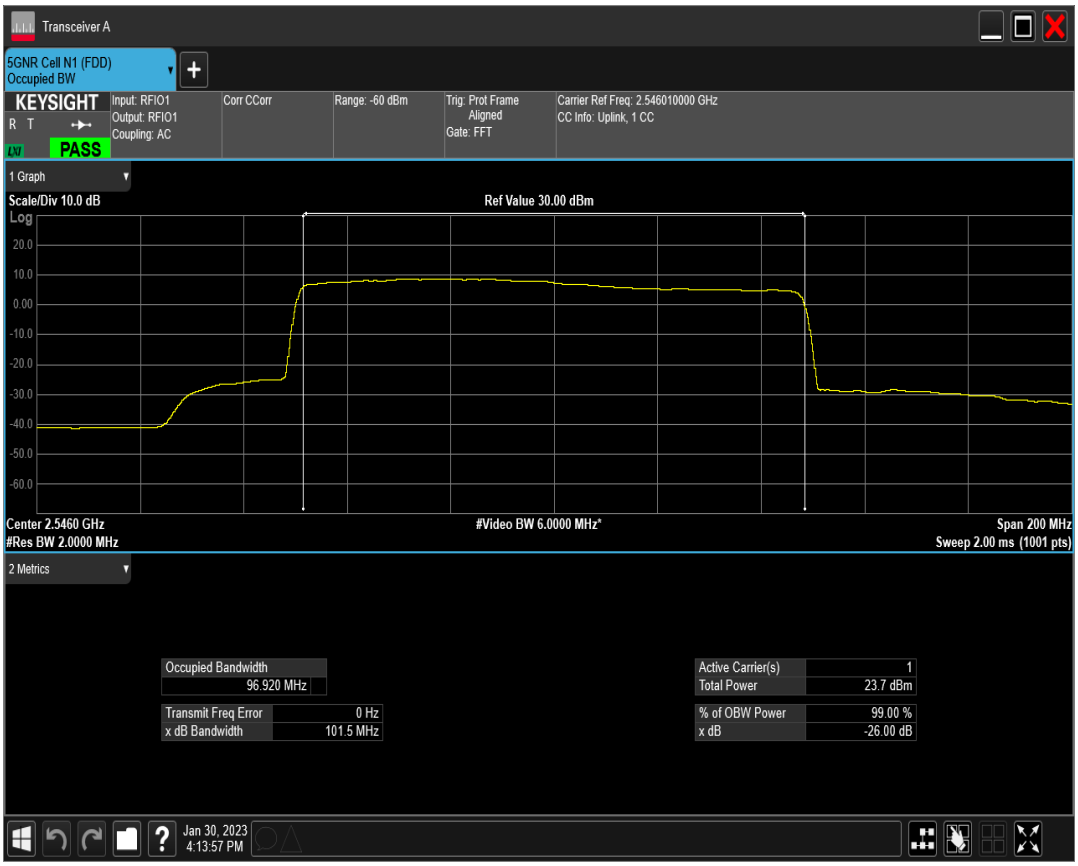

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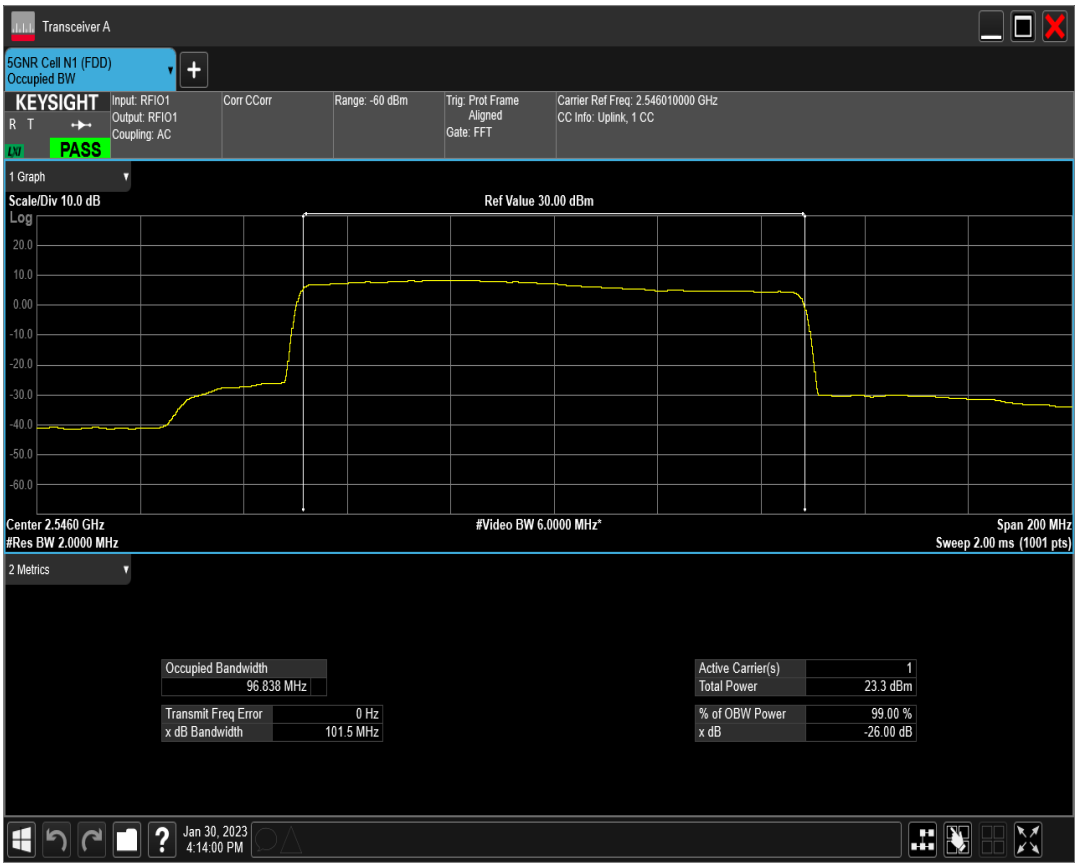

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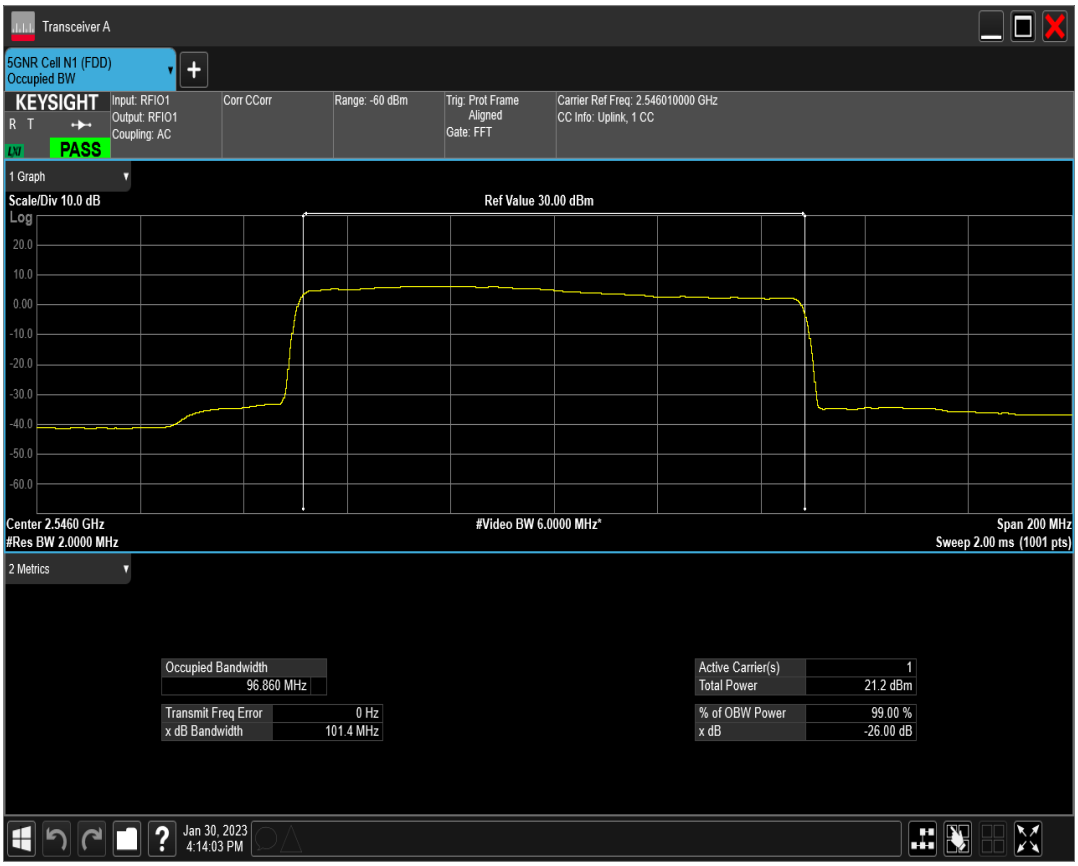
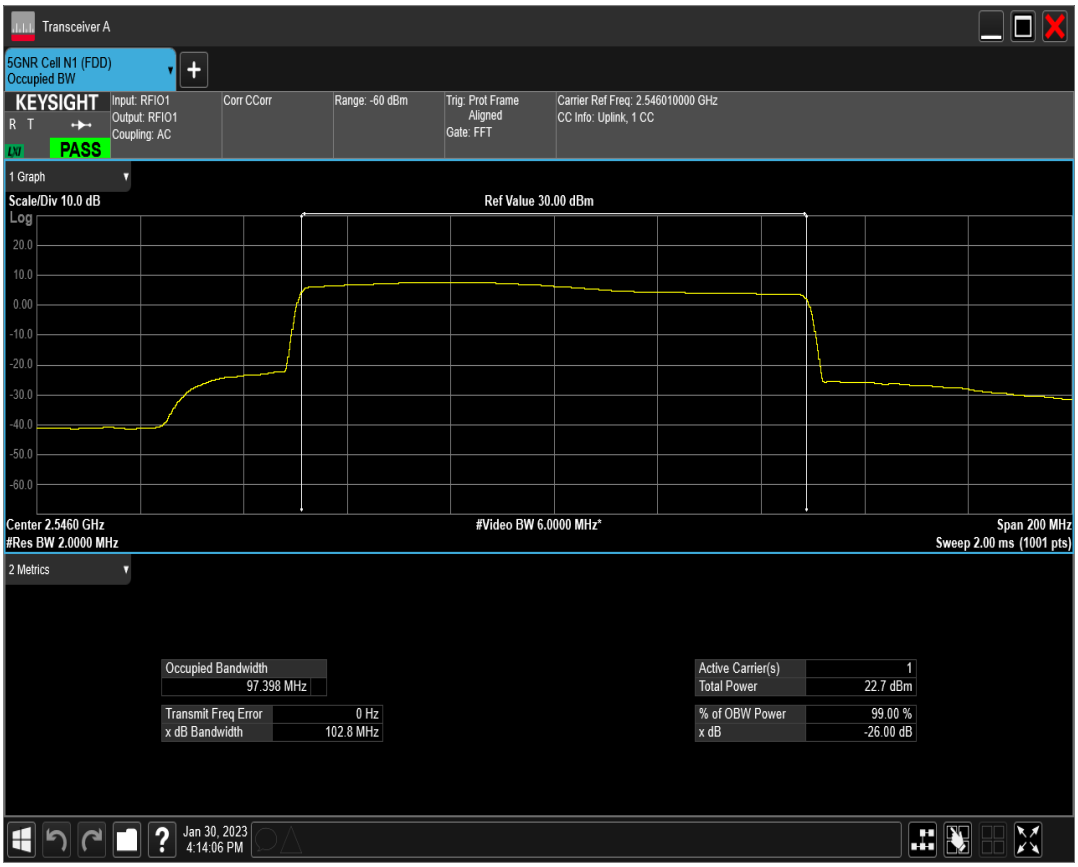
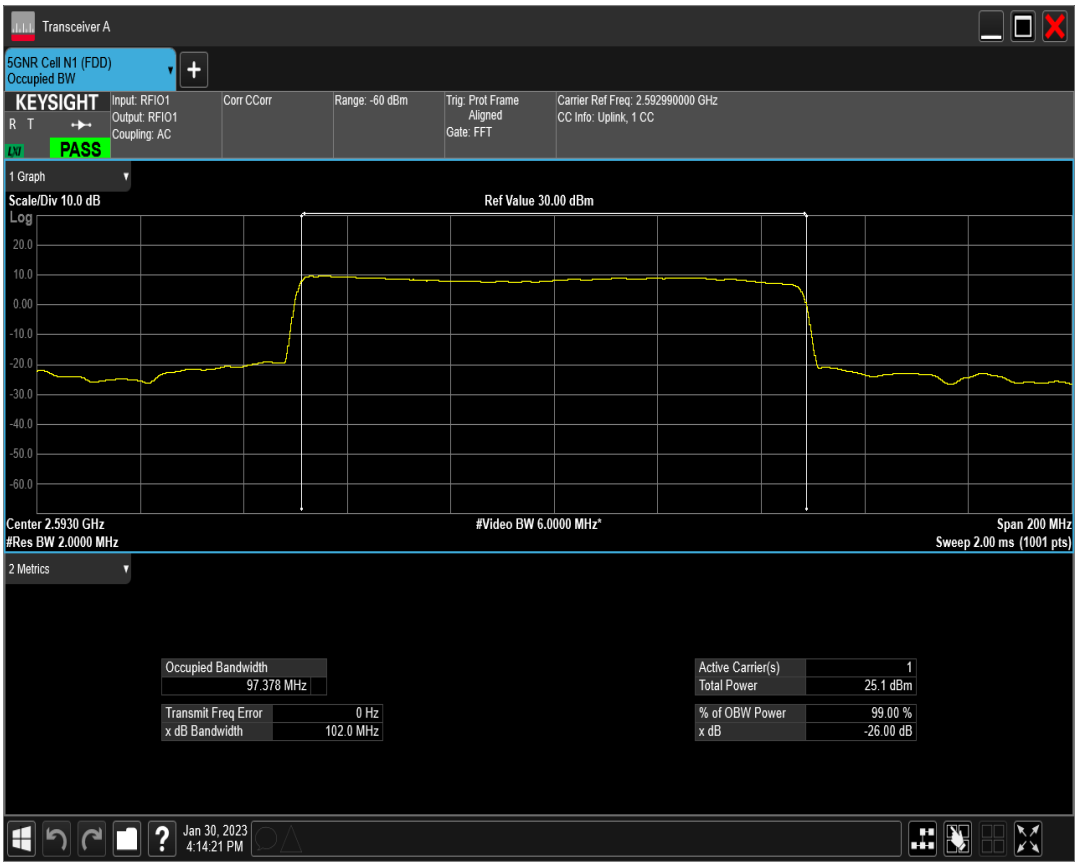


n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=273@0

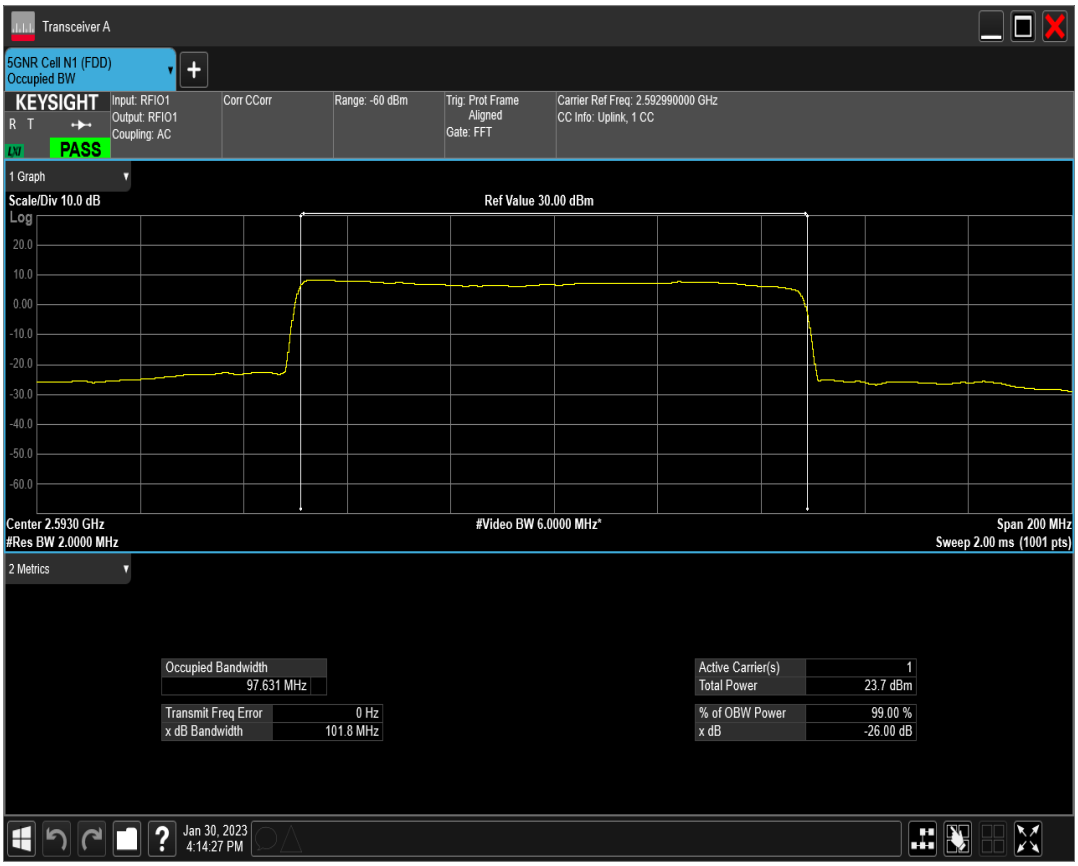


n41 SCS=30kHz DFT_BPSK BW=100MHz Channel=518598 RB=270@0

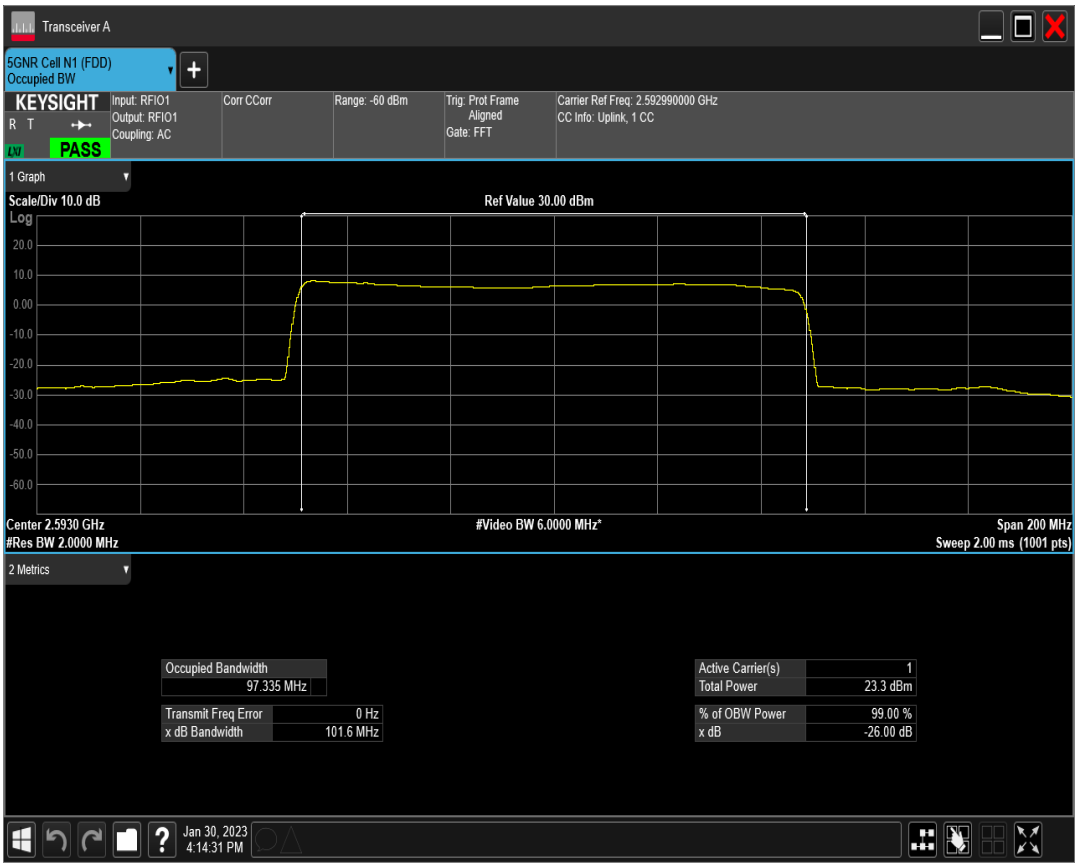


n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=518598 RB=270@0

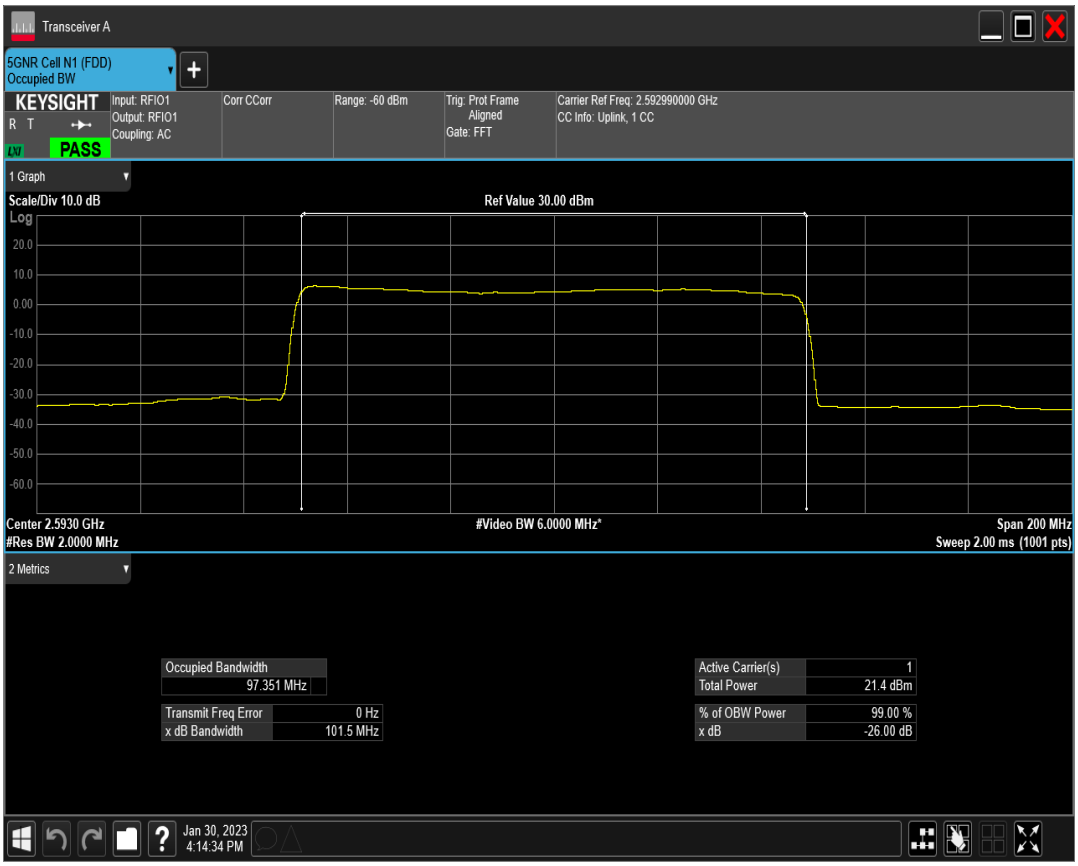
n41 SCS=30kHz DFT_QAM16 BW=100MHz Channel=518598 RB=270@0



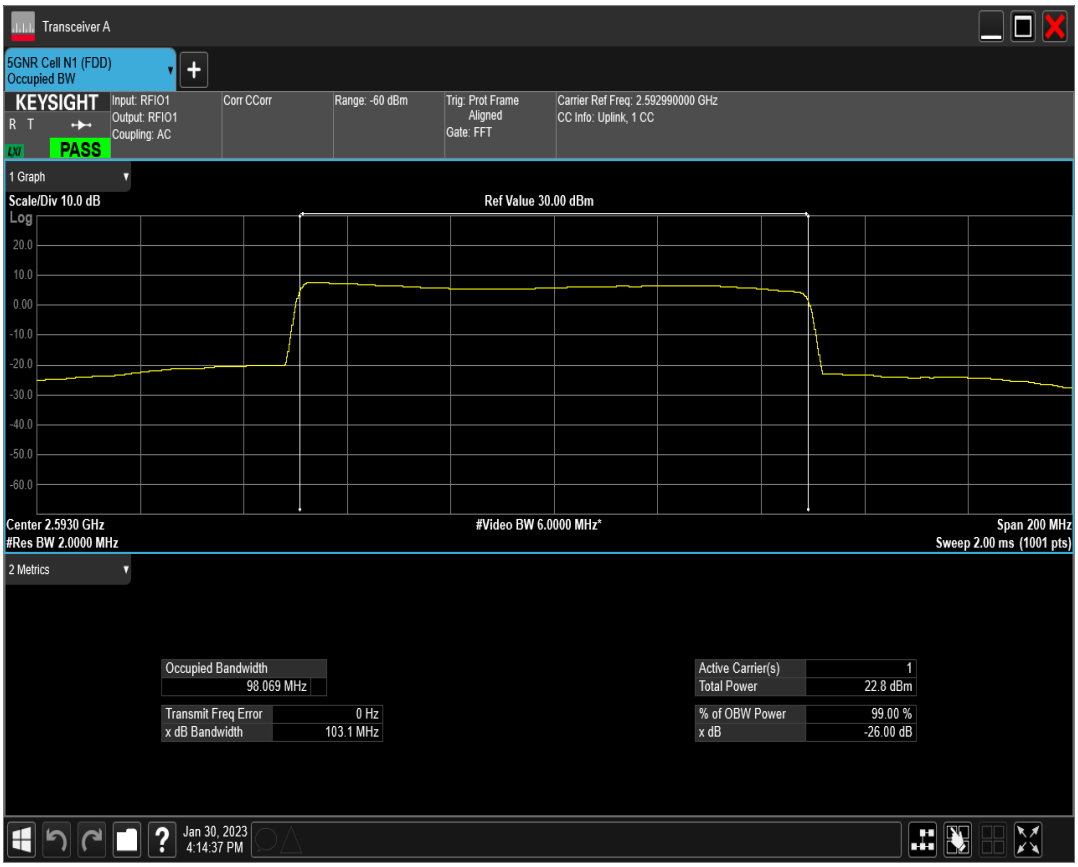
n41 SCS=30kHz DFT_QAM64 BW=100MHz Channel=518598 RB=270@0



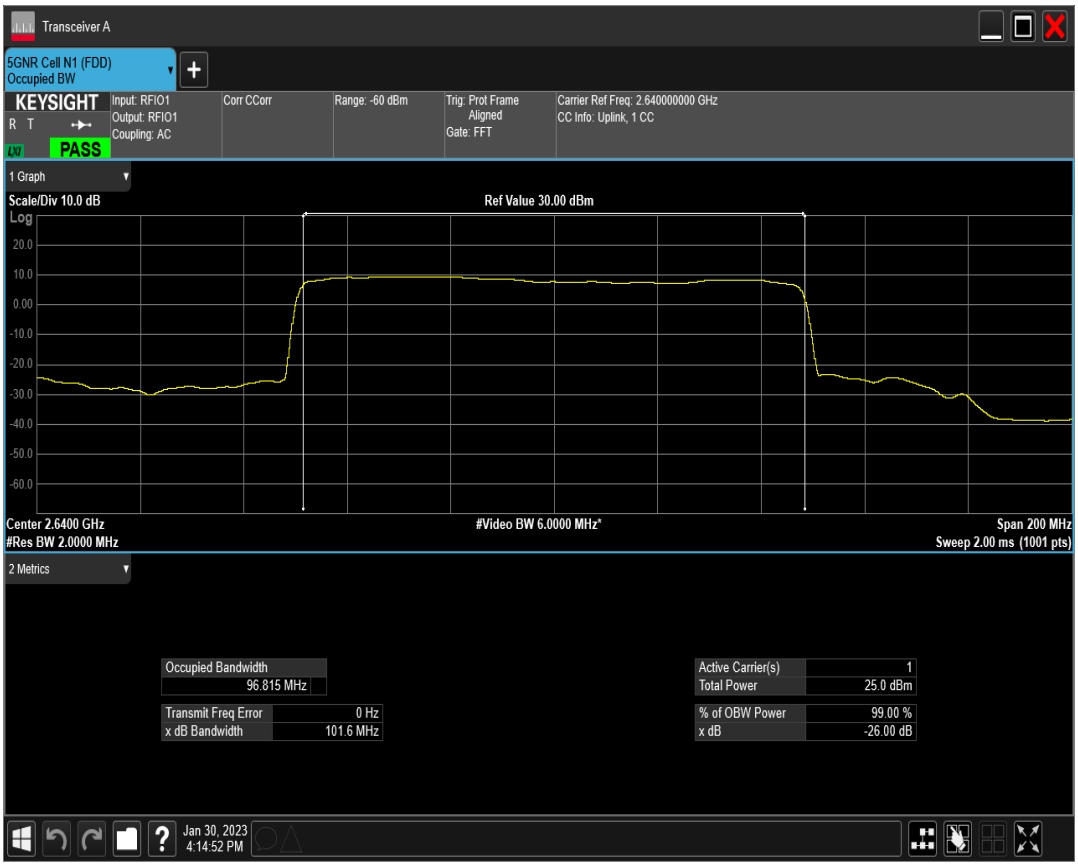
n41 SCS=30kHz DFT_QAM256 BW=100MHz Channel=518598 RB=270@0



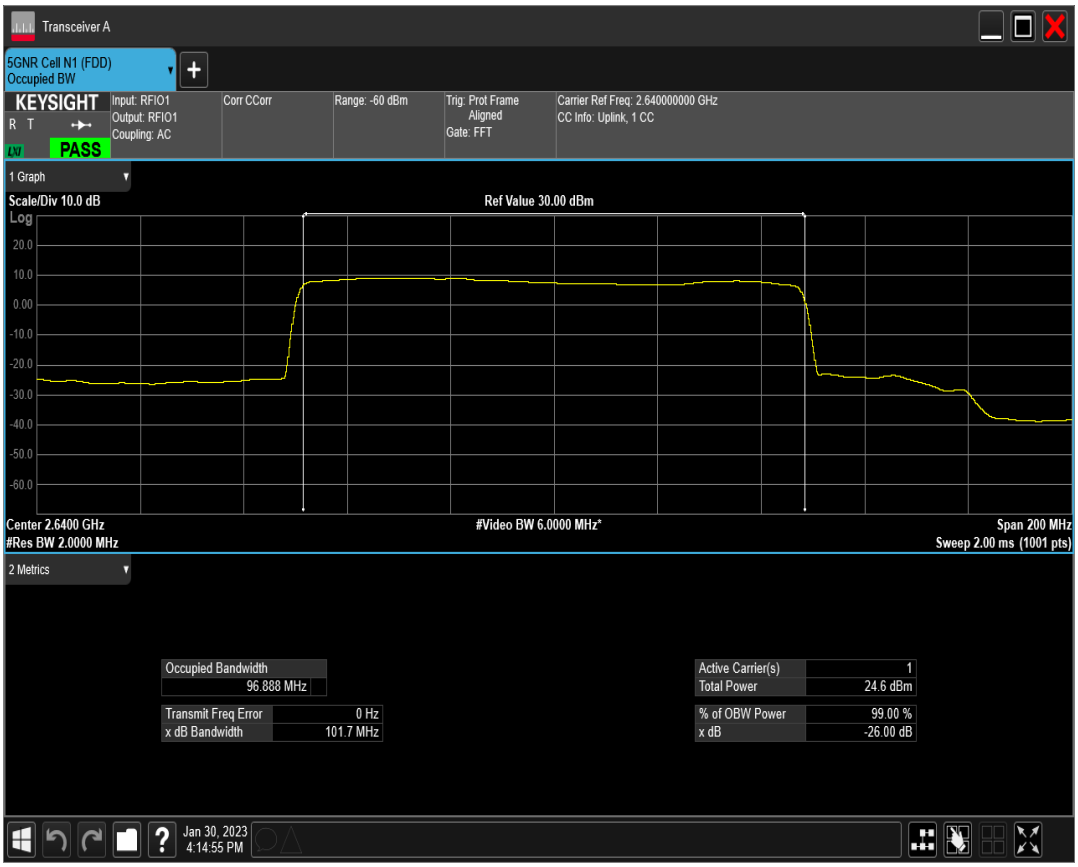
n41 SCS=30kHz CP_QPSK BW=100MHz Channel=518598 RB=273@0



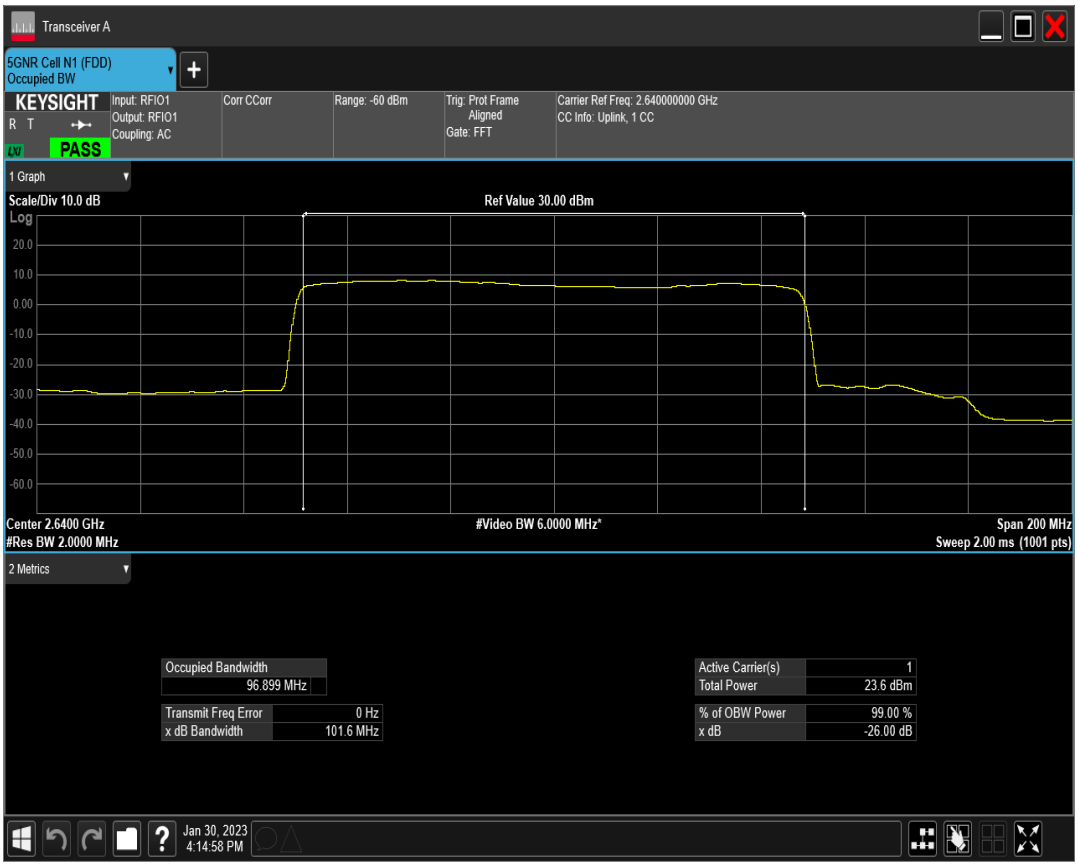
n41 SCS=30kHz DFT_BPSK BW=100MHz Channel=528000 RB=270@0



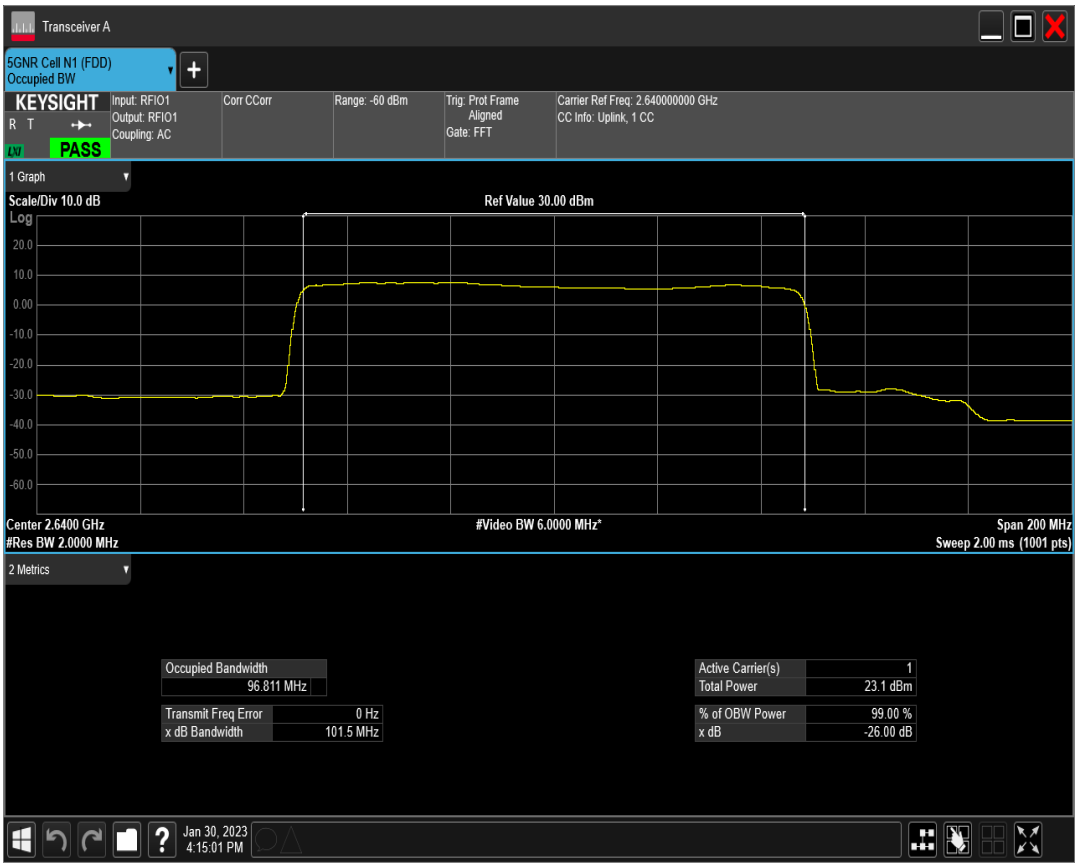
n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=528000 RB=270@0



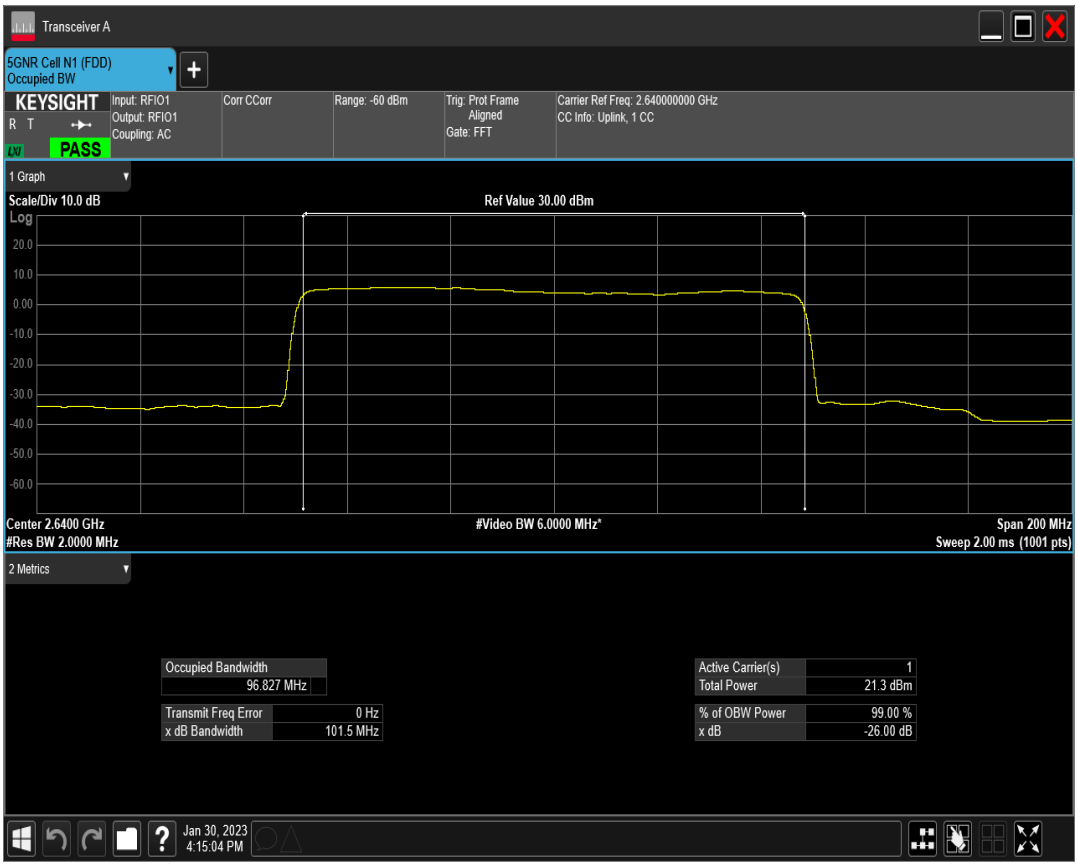
n41 SCS=30kHz DFT_QAM16 BW=100MHz Channel=528000 RB=270@0



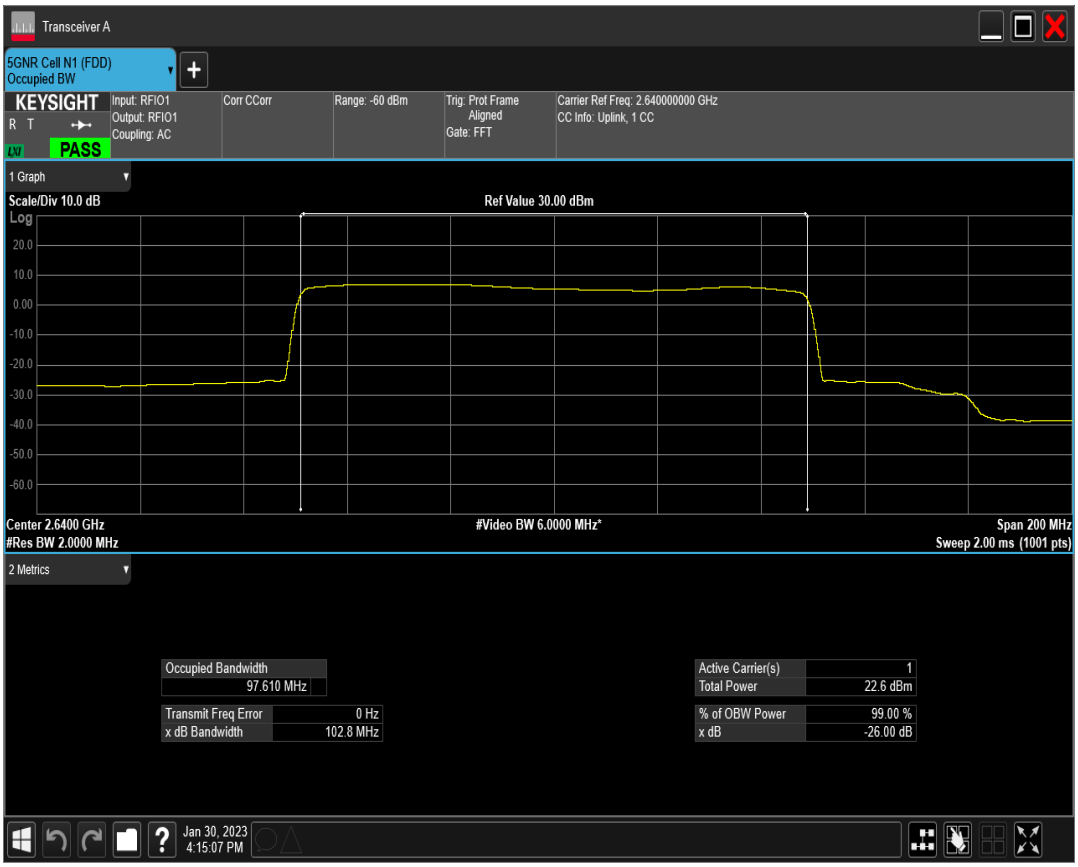
n41 SCS=30kHz DFT_QAM64 BW=100MHz Channel=528000 RB=270@0



n41 SCS=30kHz DFT_QAM256 BW=100MHz Channel=528000 RB=270@0



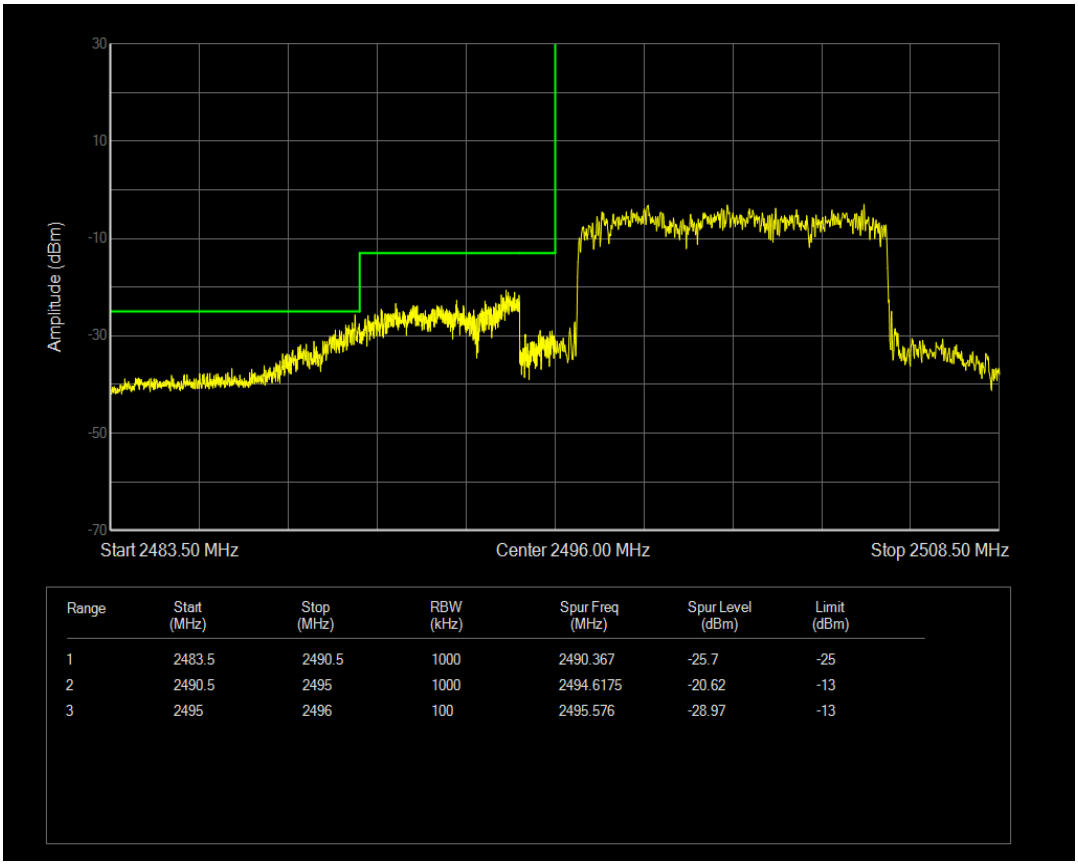
n41 SCS=30kHz CP_QPSK BW=100MHz Channel=528000 RB=273@0


Transceiver A
5GNR Cell N1 (FDD)
Occupied BW
KEYSIGHT
Input: RFIO1
Output: RFIO1
Coupling: AC
Corr CCorr
Range: -60 dBm
Trig: Prot Frame
Aligned
Gate: FFT
Carrier Ref Freq: 2.640000000 GHz
CC Info: Uplink, 1 CC
PASS
1 Graph
Scale/Div 10.0 dB
Ref Value 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.6400 GHz
#Res BW 2.0000 MHz
#Video BW 6.0000 MHz*
Span 200 MHz
Sweep 2.00 ms (1001 pts)
2 Metrics
Occupied Bandwidth
97.610 MHz
Transmit Freq Error 0 Hz
x dB Bandwidth 102.8 MHz
Active Carrier(s) 1
Total Power 22.6 dBm
% of OBW Power 99.00 %
x dB -26.00 dB
Jan 30, 2023
4:15:07 PM

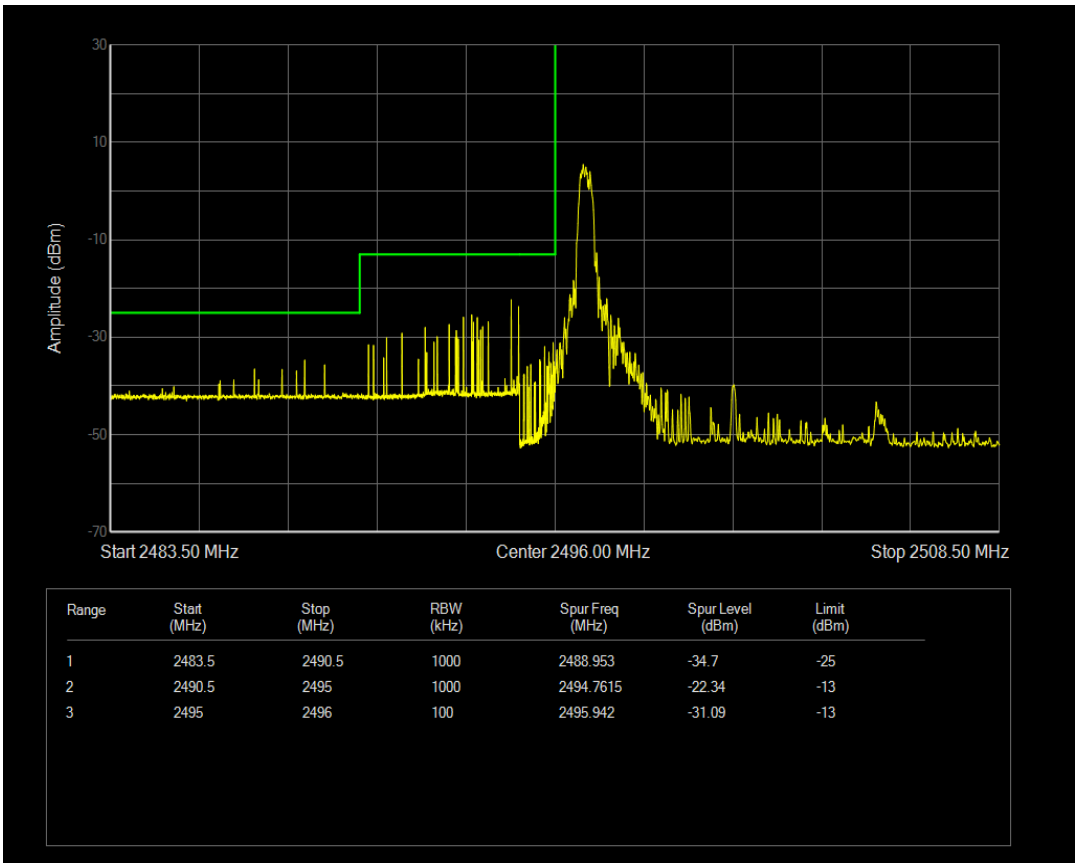
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n41	30	10	500202	24@0	DFT_QPSK	2490.37	-25.70	-25	PASS
n41	30	10	500202	1@0	DFT_QPSK	2494.76	-22.34	-13	PASS
n41	30	10	537000	24@0	DFT_QPSK	2700.15	-39.96	-25	PASS
n41	30	10	537000	1@23	DFT_QPSK	2691.01	-20.65	-10	PASS
n41	30	100	509202	270@0	DFT_QPSK	2487.15	-34.84	-25	PASS
n41	30	100	509202	1@0	DFT_QPSK	2488.11	-39.69	-25	PASS
n41	30	100	528000	270@0	DFT_QPSK	2809.05	-41.94	-25	PASS
n41	30	100	528000	1@272	DFT_QPSK	2808.20	-41.83	-25	PASS

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=500202 RB=24@0

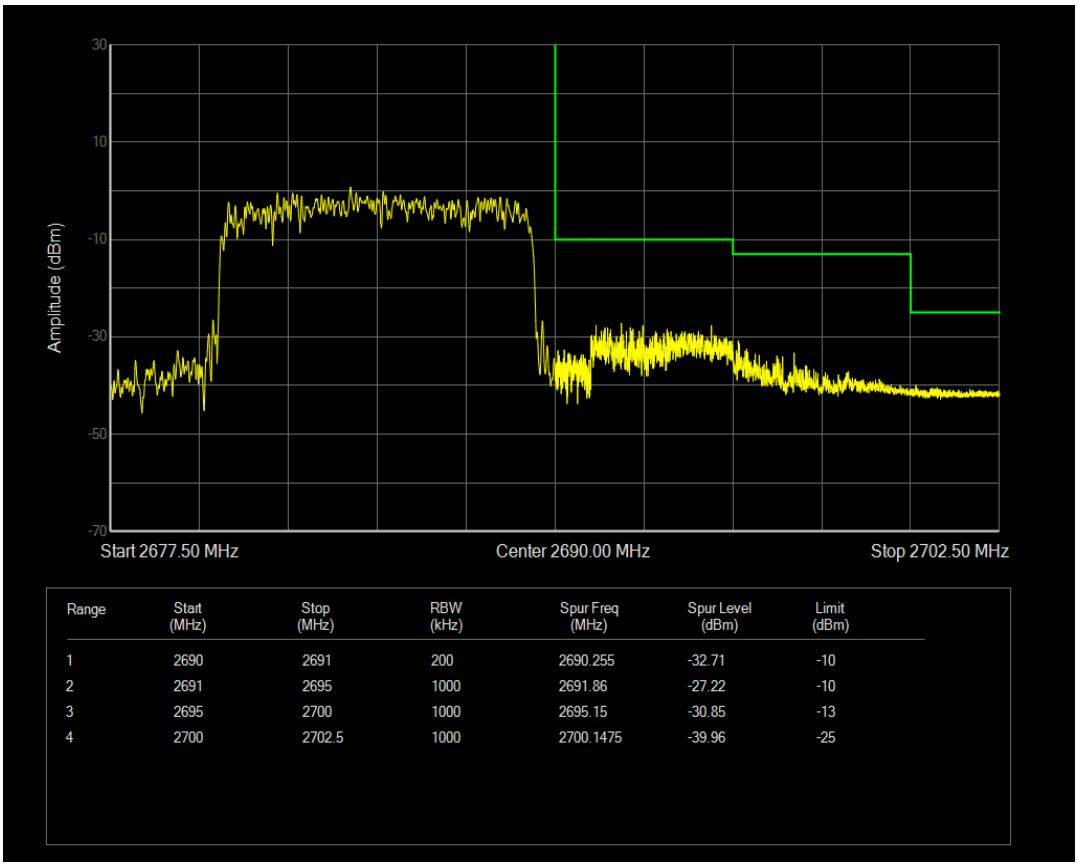


n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=500202 RB=1@0



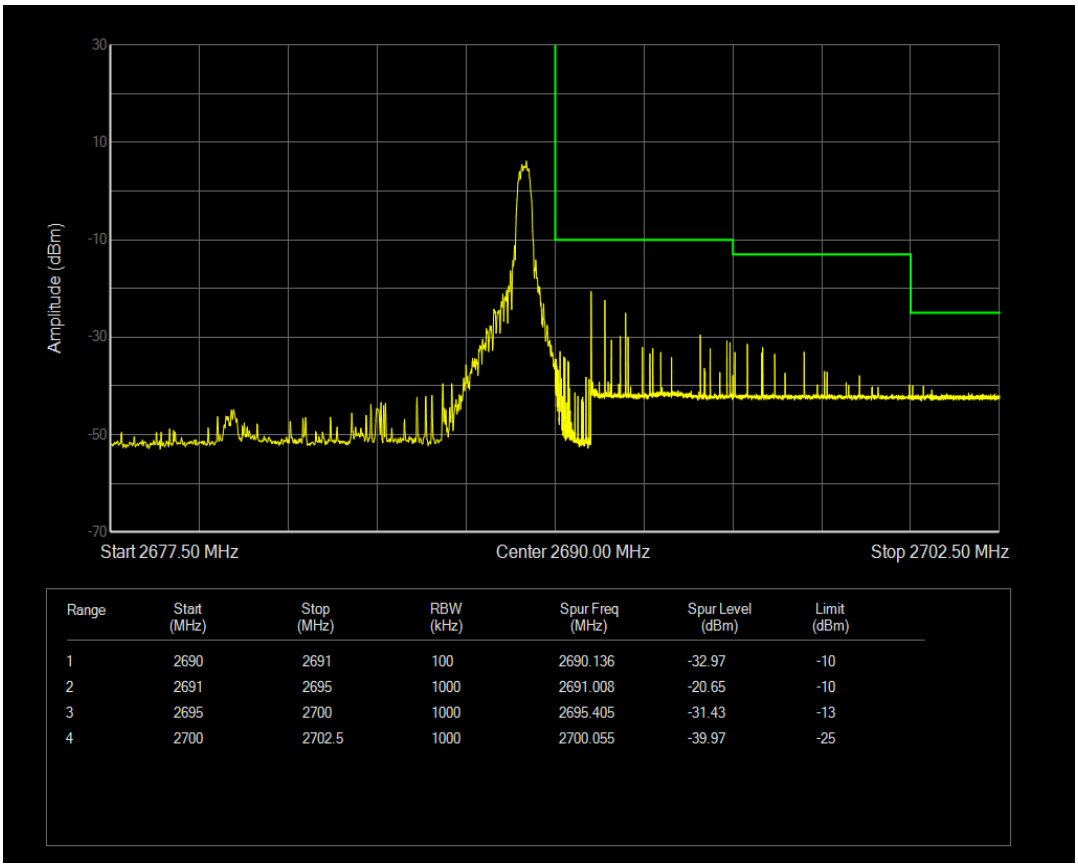
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2483.5	2490.5	1000	2488.953	-34.7	-25
2	2490.5	2495	1000	2494.7615	-22.34	-13
3	2495	2496	100	2495.942	-31.09	-13

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=537000 RB=24@0



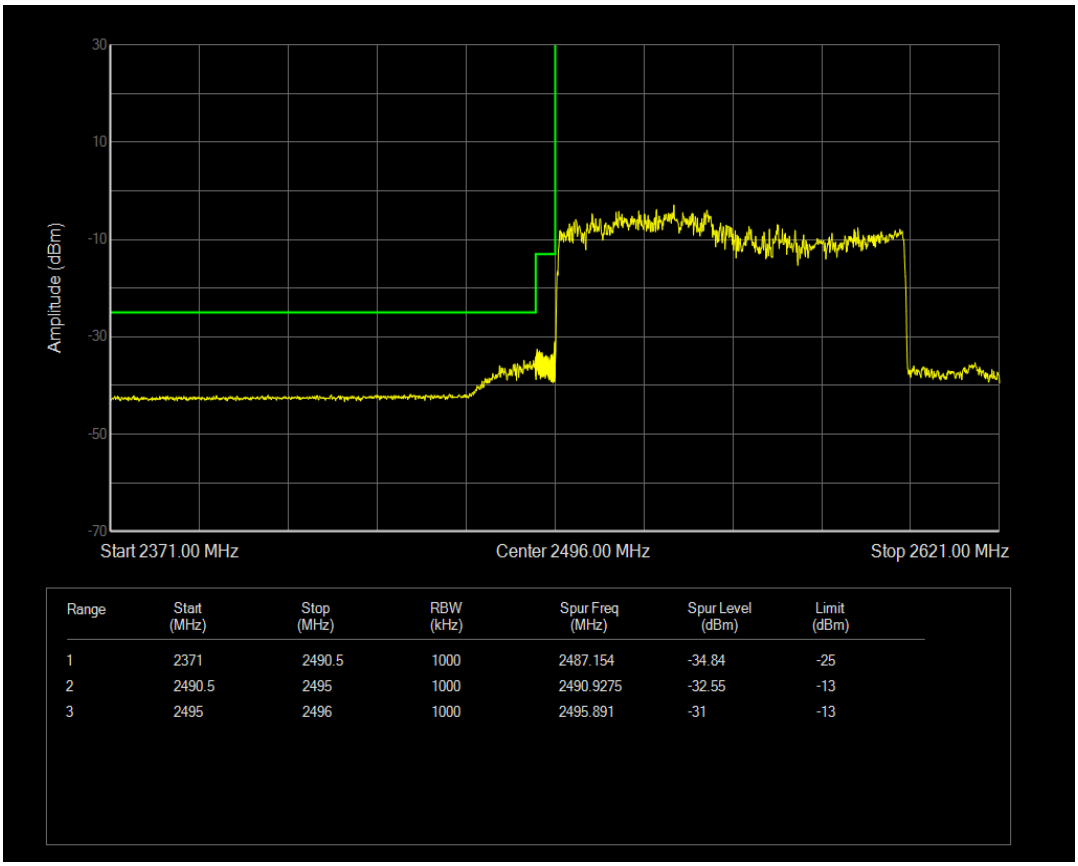
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2690	2691	200	2690.255	-32.71	-10
2	2691	2695	1000	2691.86	-27.22	-10
3	2695	2700	1000	2695.15	-30.85	-13
4	2700	2702.5	1000	2700.1475	-39.96	-25

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=537000 RB=1@23



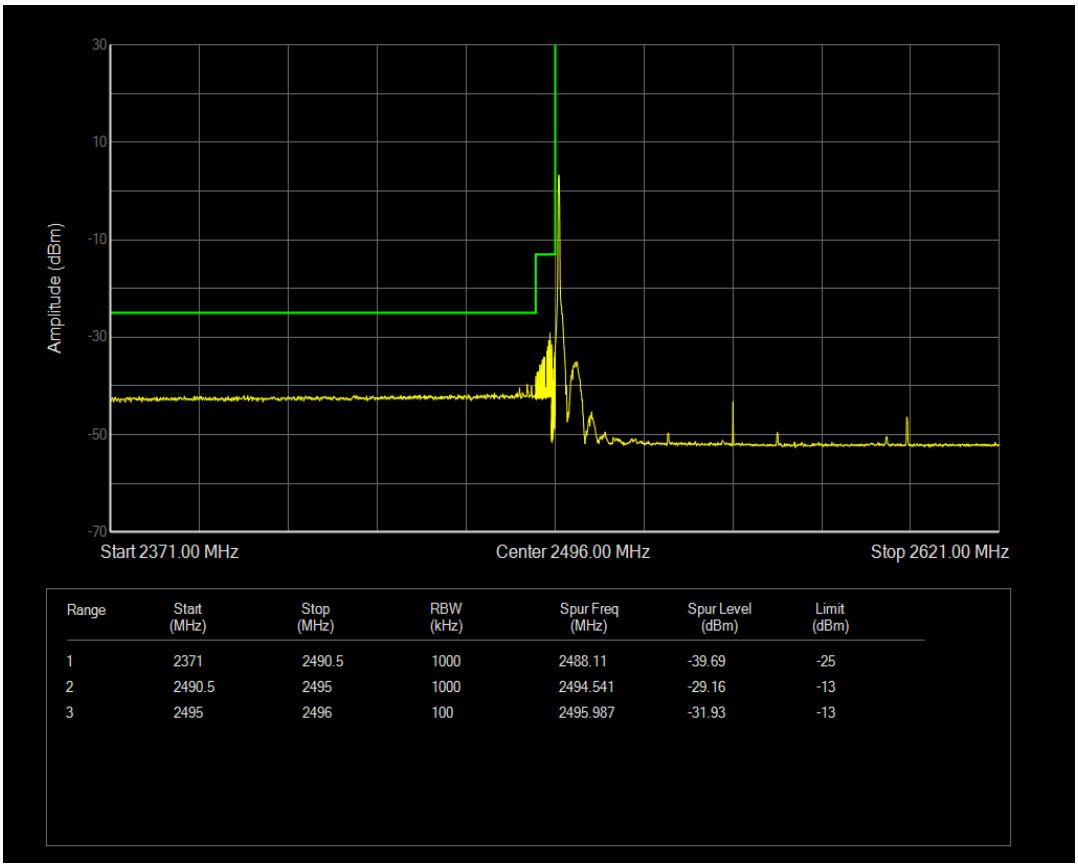
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2690	2691	100	2690.136	-32.97	-10
2	2691	2695	1000	2691.008	-20.65	-10
3	2695	2700	1000	2695.405	-31.43	-13
4	2700	2702.5	1000	2700.055	-39.97	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=509202 RB=270@0



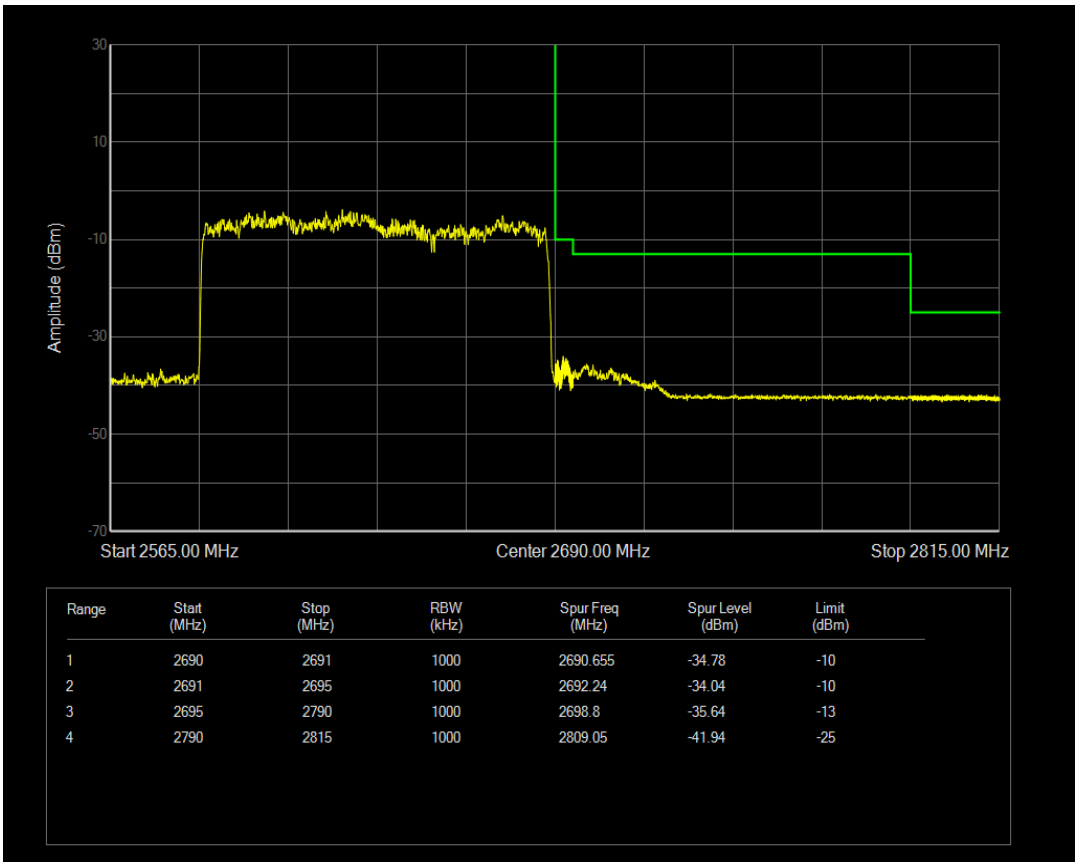
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2371	2490.5	1000	2487.154	-34.84	-25
2	2490.5	2495	1000	2490.9275	-32.55	-13
3	2495	2496	1000	2495.891	-31	-13

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=509202 RB=1@0



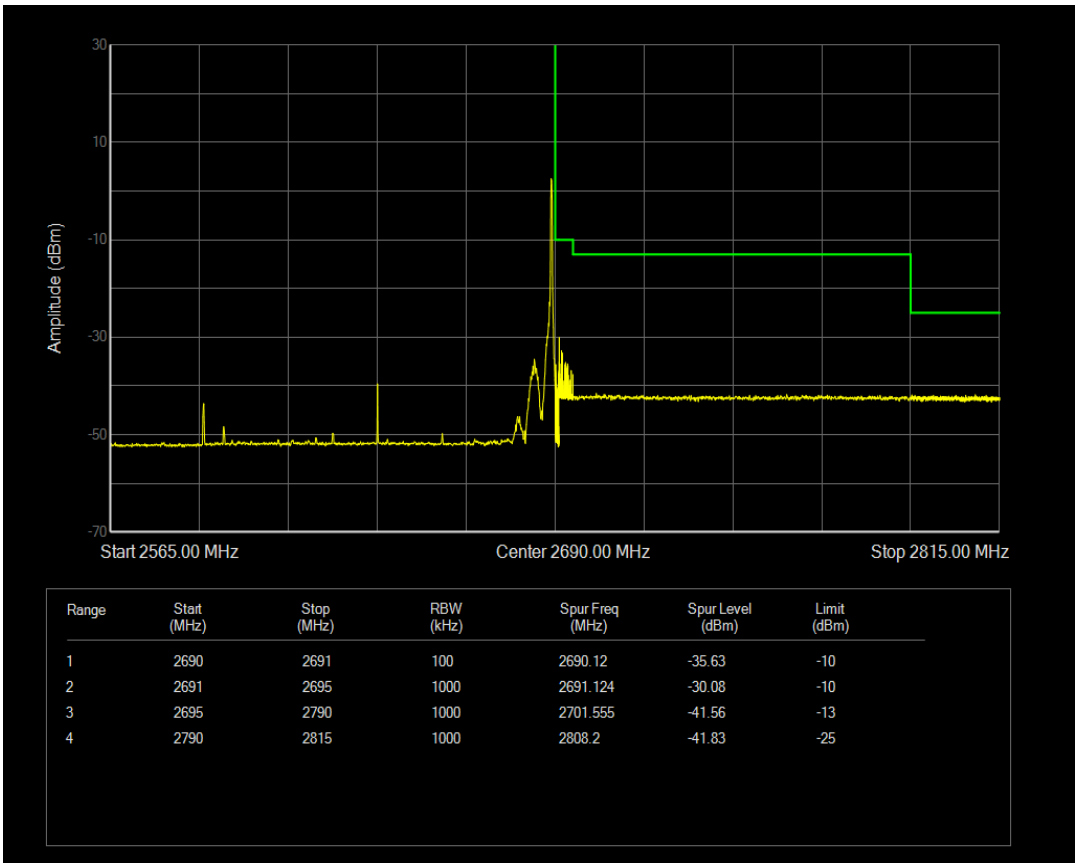
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2371	2490.5	1000	2488.11	-39.69	-25
2	2490.5	2495	1000	2494.541	-29.16	-13
3	2495	2496	100	2495.987	-31.93	-13

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=528000 RB=270@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2690	2691	1000	2690.655	-34.78	-10
2	2691	2695	1000	2692.24	-34.04	-10
3	2695	2790	1000	2698.8	-35.64	-13
4	2790	2815	1000	2809.05	-41.94	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=528000 RB=1@272

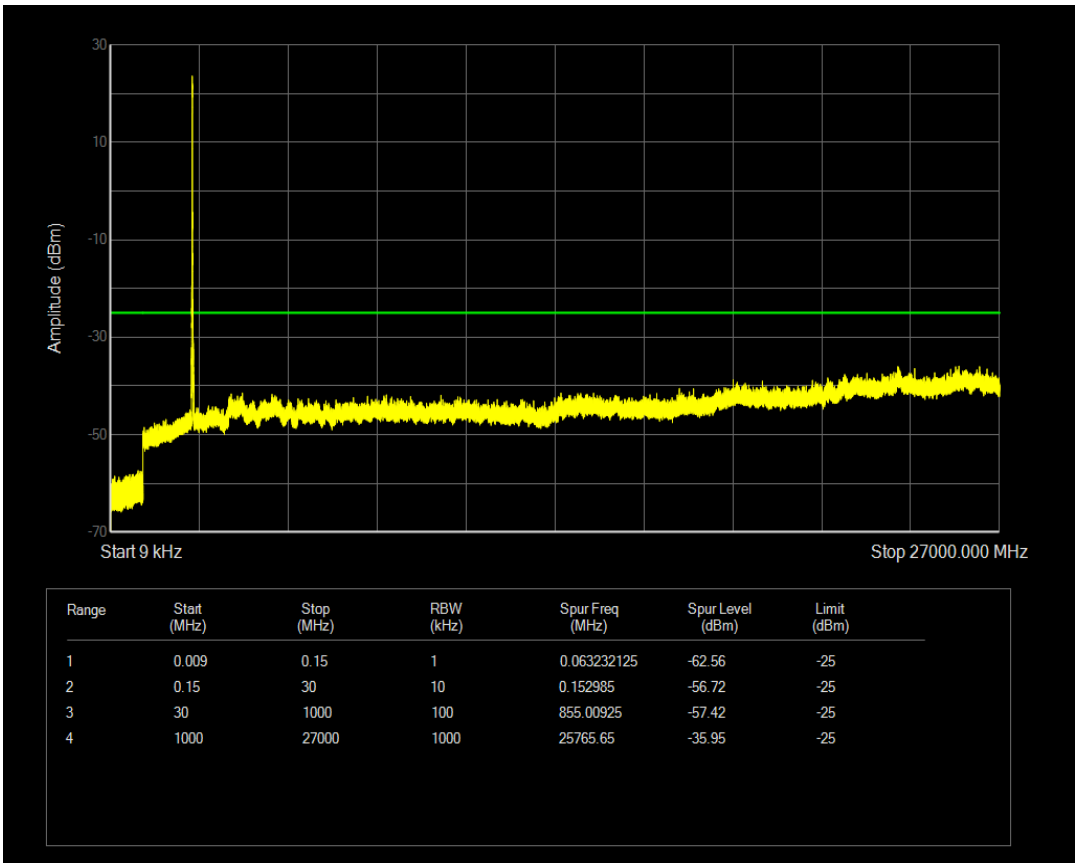


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2690	2691	100	2690.12	-35.63	-10
2	2691	2695	1000	2691.124	-30.08	-10
3	2695	2790	1000	2701.555	-41.56	-13
4	2790	2815	1000	2808.2	-41.83	-25

6 Out-of-band emissions for NR FR1

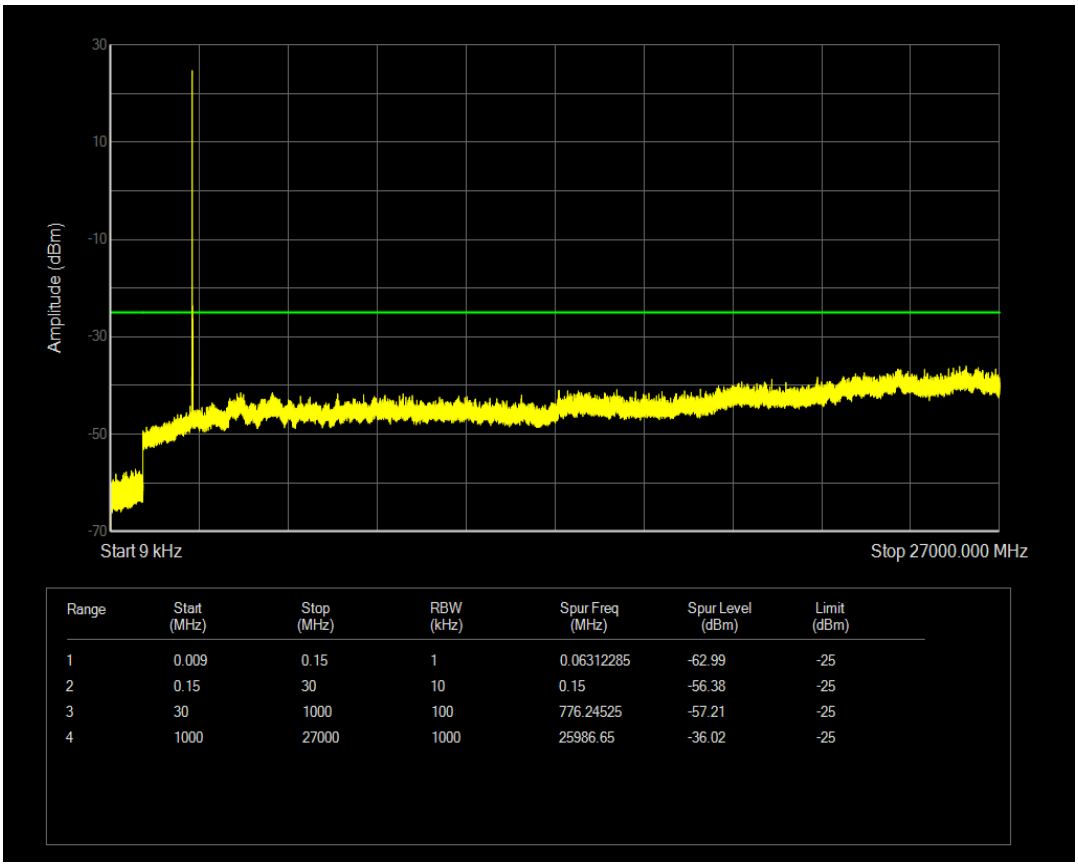
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n41	30	10	500202	24@0	DFT_QPSK	25765.65	-35.95	-25	PASS
n41	30	10	500202	1@0	DFT_QPSK	25986.65	-36.02	-25	PASS
n41	30	10	500202	1@23	DFT_QPSK	26346.10	-36.17	-25	PASS
n41	30	10	518598	24@0	DFT_QPSK	23905.35	-35.73	-25	PASS
n41	30	10	518598	1@0	DFT_QPSK	26338.95	-35.69	-25	PASS
n41	30	10	518598	1@23	DFT_QPSK	26349.35	-35.54	-25	PASS
n41	30	10	537000	24@0	DFT_QPSK	25977.55	-35.83	-25	PASS
n41	30	10	537000	1@0	DFT_QPSK	26335.05	-35.32	-25	PASS
n41	30	10	537000	1@23	DFT_QPSK	25692.85	-35.44	-25	PASS
n41	30	100	509202	270@0	DFT_QPSK	25961.95	-35.60	-25	PASS
n41	30	100	509202	1@0	DFT_QPSK	26318.15	-35.49	-25	PASS
n41	30	100	509202	1@272	DFT_QPSK	26299.95	-34.54	-25	PASS
n41	30	100	518598	270@0	DFT_QPSK	26416.95	-35.72	-25	PASS
n41	30	100	518598	1@0	DFT_QPSK	26317.50	-35.00	-25	PASS
n41	30	100	518598	1@272	DFT_QPSK	26314.25	-34.54	-25	PASS
n41	30	100	528000	270@0	DFT_QPSK	23978.80	-35.57	-25	PASS
n41	30	100	528000	1@0	DFT_QPSK	26485.20	-35.35	-25	PASS
n41	30	100	528000	1@272	DFT_QPSK	23937.20	-35.78	-25	PASS

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=500202 RB=24@0



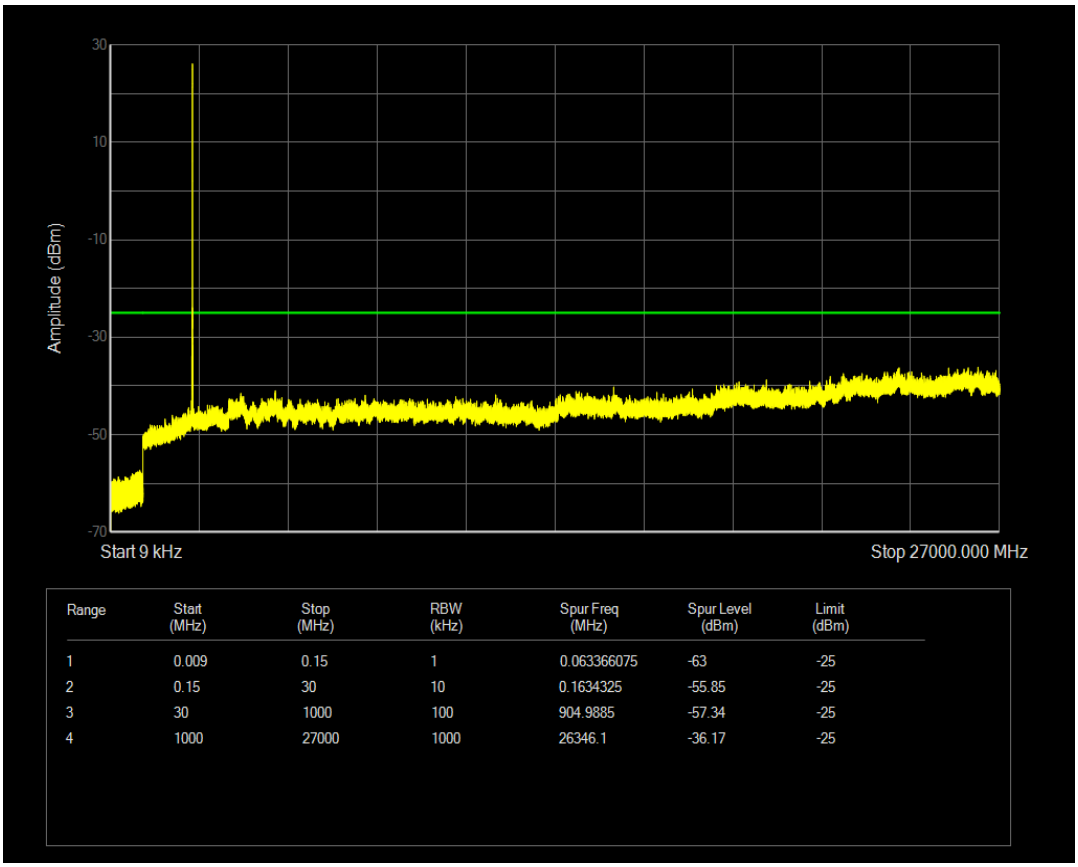
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063232125	-62.56	-25
2	0.15	30	10	0.152985	-56.72	-25
3	30	1000	100	855.00925	-57.42	-25
4	1000	27000	1000	25765.65	-35.95	-25

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=500202 RB=1@0



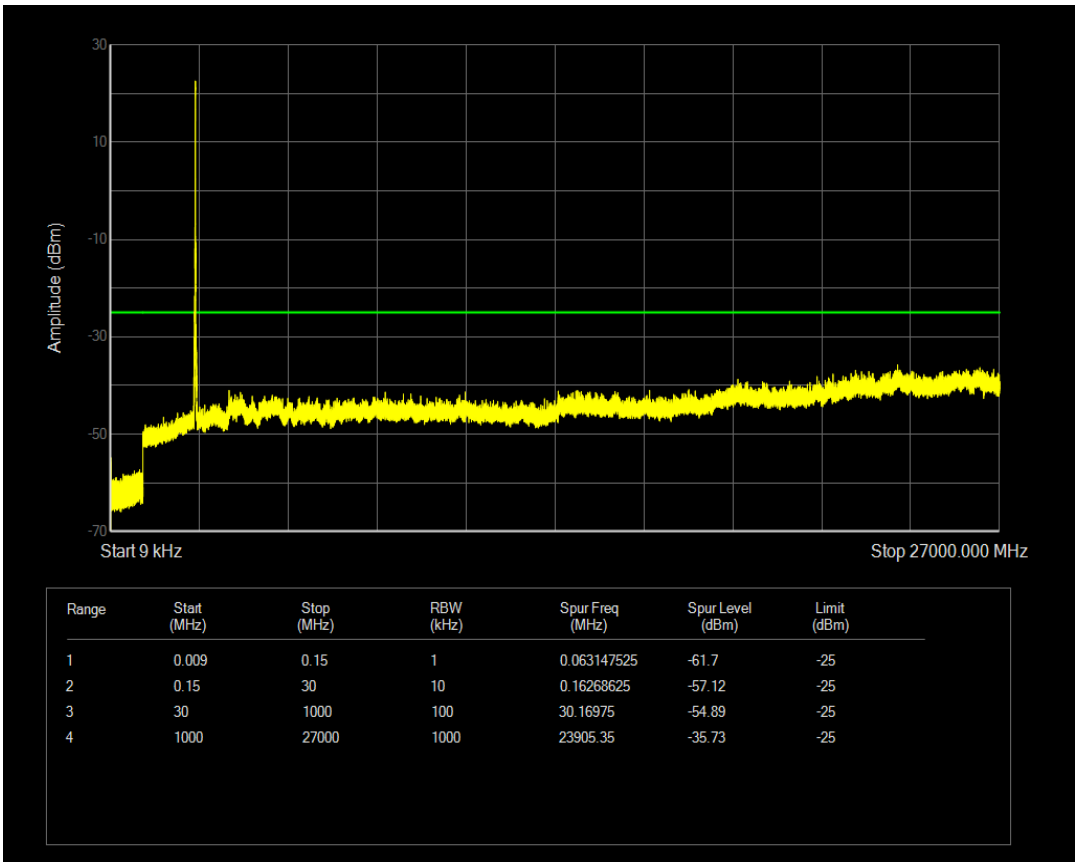
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06312285	-62.99	-25
2	0.15	30	10	0.15	-56.38	-25
3	30	1000	100	776.24525	-57.21	-25
4	1000	27000	1000	25986.65	-36.02	-25

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=500202 RB=1@23



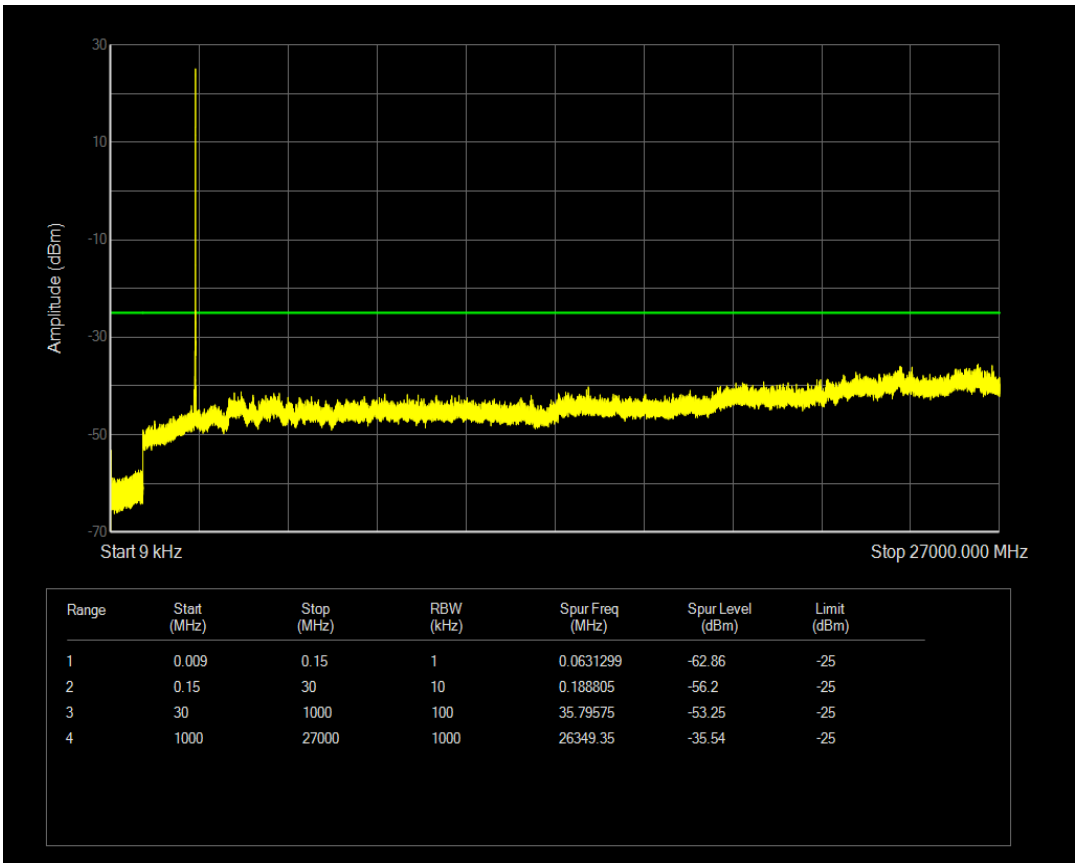
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063366075	-63	-25
2	0.15	30	10	0.1634325	-55.85	-25
3	30	1000	100	904.9885	-57.34	-25
4	1000	27000	1000	26346.1	-36.17	-25

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=518598 RB=24@0



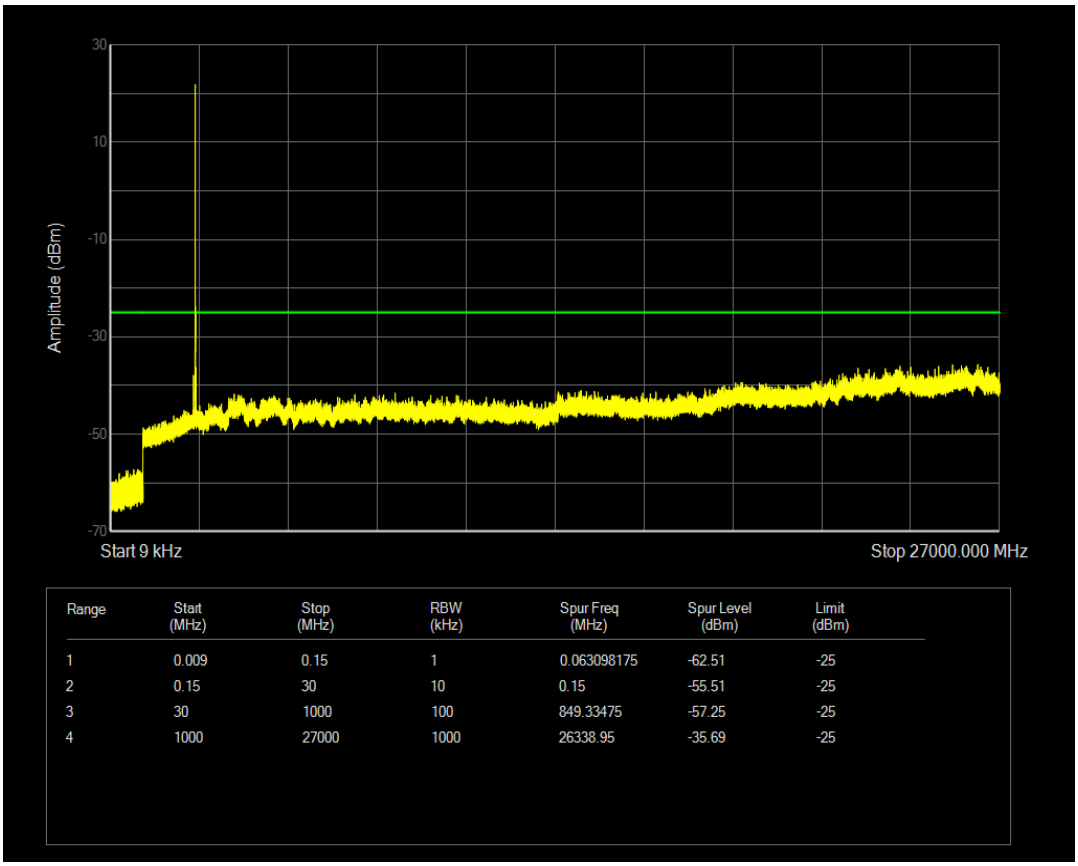
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063147525	-61.7	-25
2	0.15	30	10	0.16268625	-57.12	-25
3	30	1000	100	30.16975	-54.89	-25
4	1000	27000	1000	23905.35	-35.73	-25

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=518598 RB=1@23



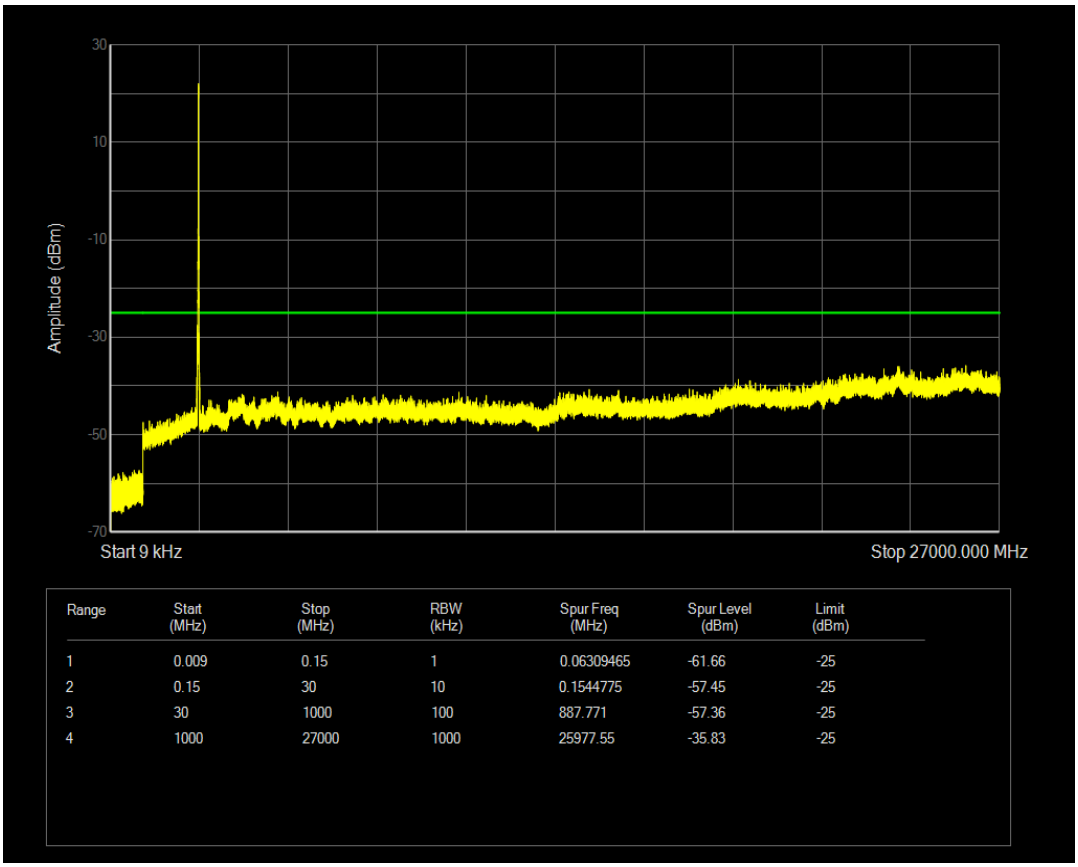
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0631299	-62.86	-25
2	0.15	30	10	0.188805	-56.2	-25
3	30	1000	100	35.79575	-53.25	-25
4	1000	27000	1000	26349.35	-35.54	-25

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=518598 RB=1@0



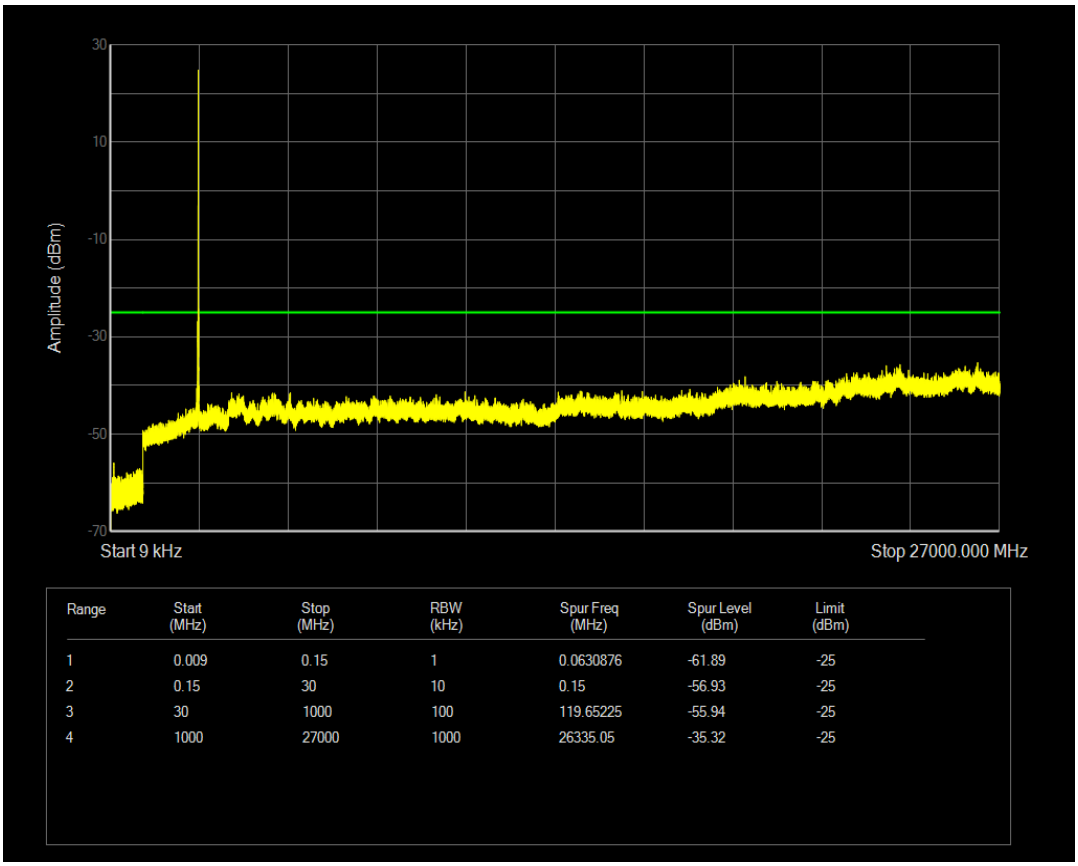
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063098175	-62.51	-25
2	0.15	30	10	0.15	-55.51	-25
3	30	1000	100	849.33475	-57.25	-25
4	1000	27000	1000	26338.95	-35.69	-25

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=537000 RB=24@0



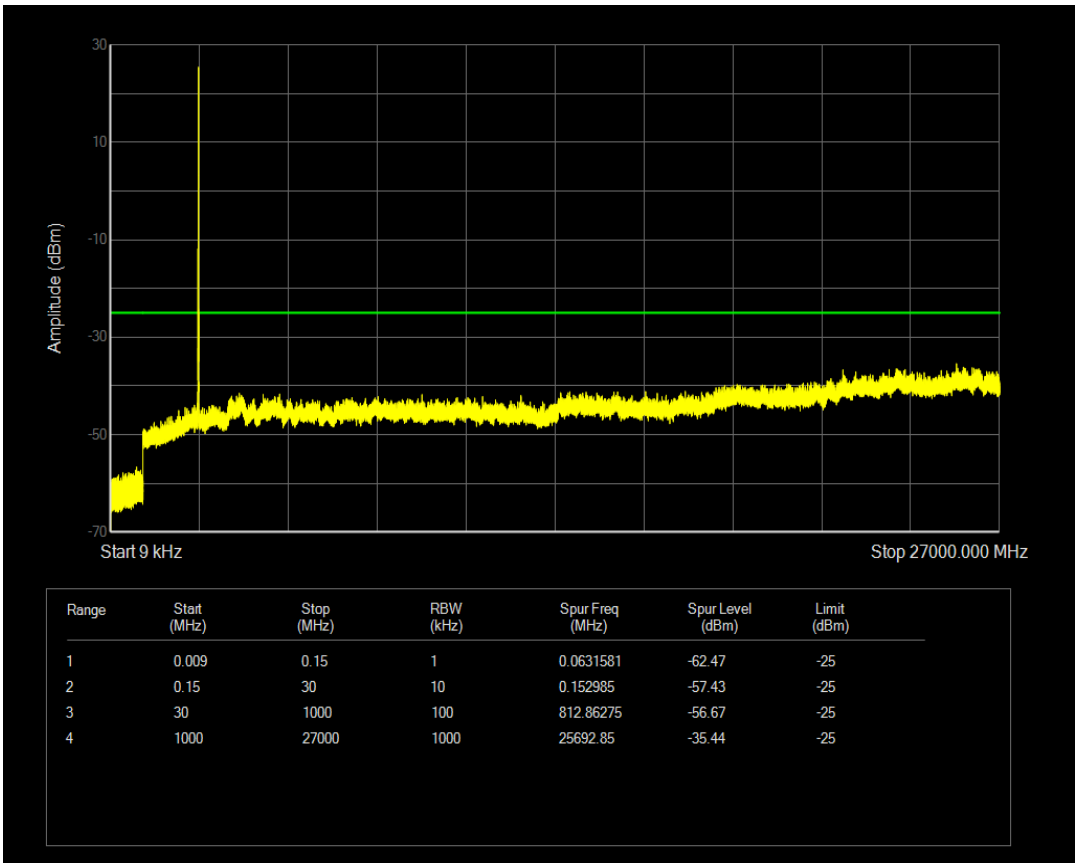
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06309465	-61.66	-25
2	0.15	30	10	0.1544775	-57.45	-25
3	30	1000	100	887.771	-57.36	-25
4	1000	27000	1000	25977.55	-35.83	-25

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=537000 RB=1@0



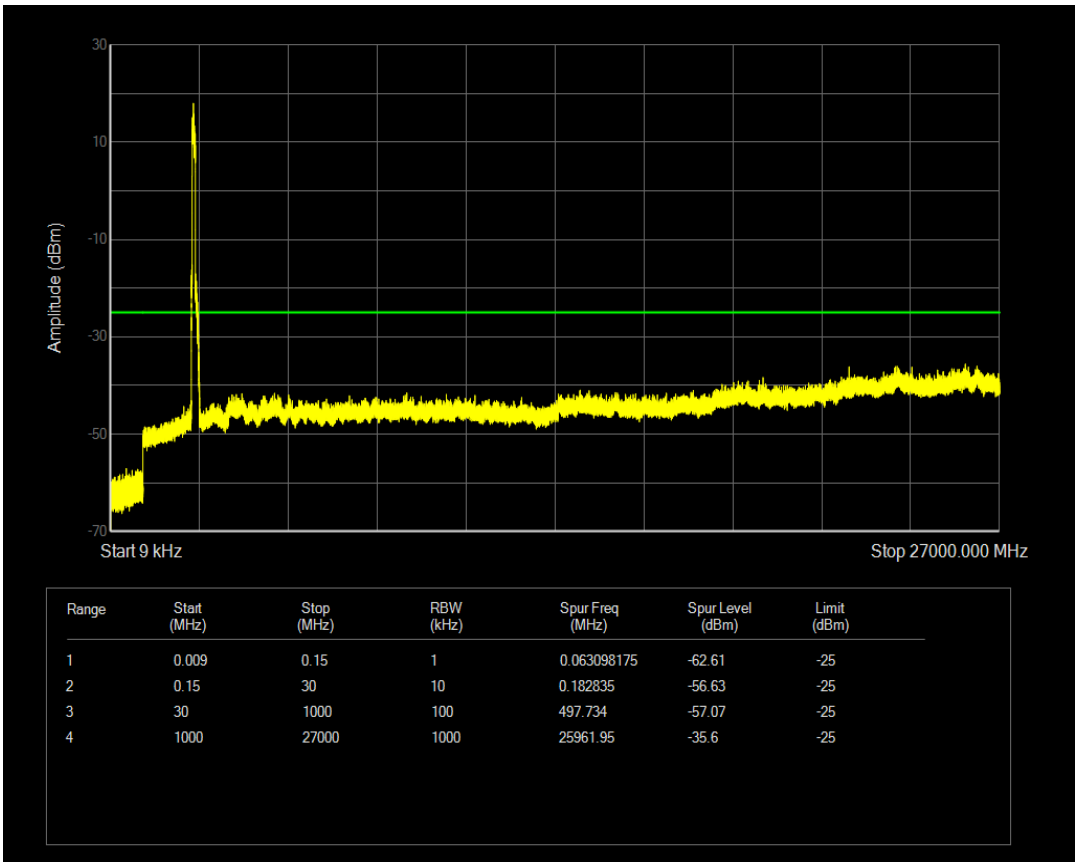
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0630876	-61.89	-25
2	0.15	30	10	0.15	-56.93	-25
3	30	1000	100	119.65225	-55.94	-25
4	1000	27000	1000	26335.05	-35.32	-25

n41 SCS=30kHz DFT_QPSK BW=10MHz Channel=537000 RB=1@23



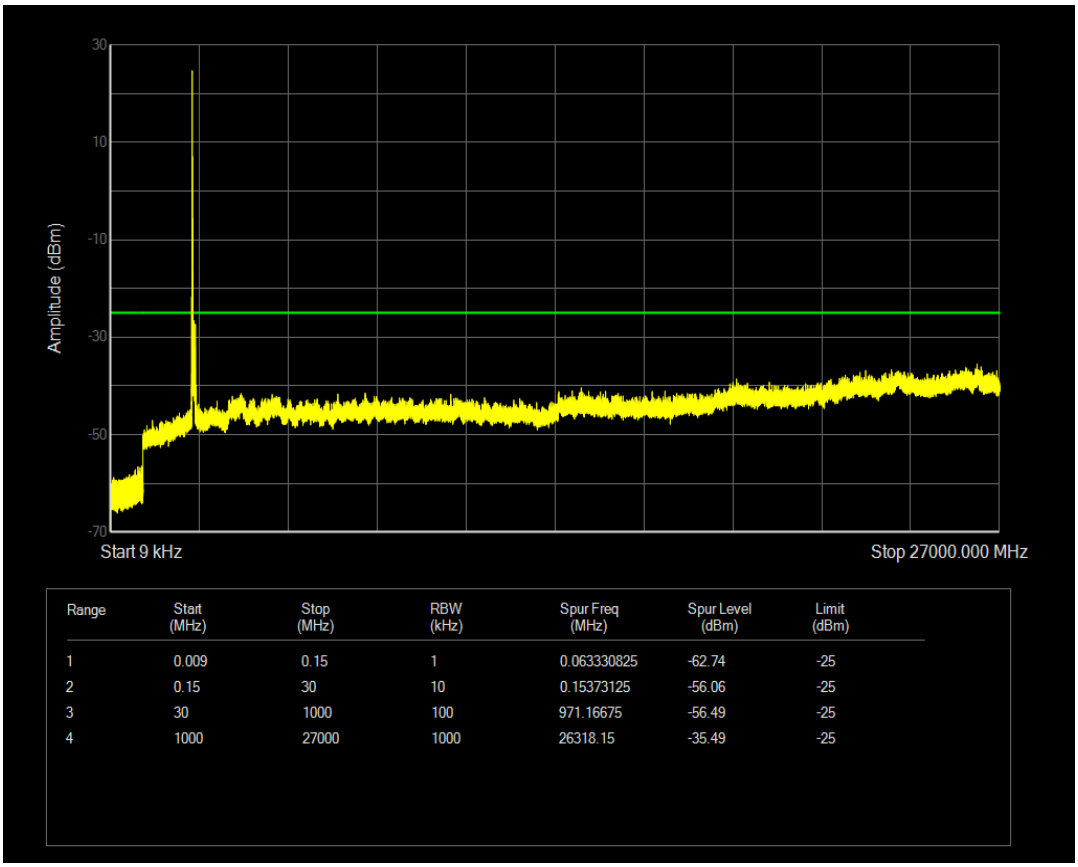
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0631581	-62.47	-25
2	0.15	30	10	0.152985	-57.43	-25
3	30	1000	100	812.86275	-56.67	-25
4	1000	27000	1000	25692.85	-35.44	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=509202 RB=270@0



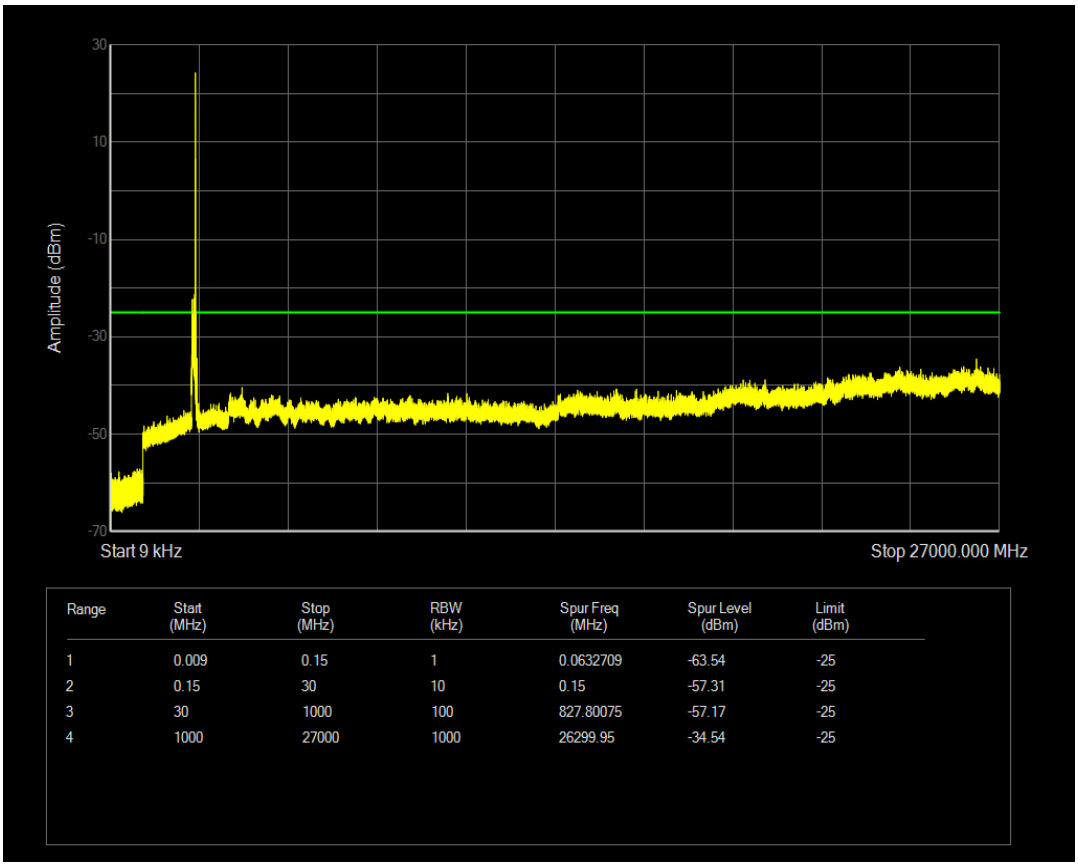
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063098175	-62.61	-25
2	0.15	30	10	0.182835	-56.63	-25
3	30	1000	100	497.734	-57.07	-25
4	1000	27000	1000	25961.95	-35.6	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=509202 RB=1@0



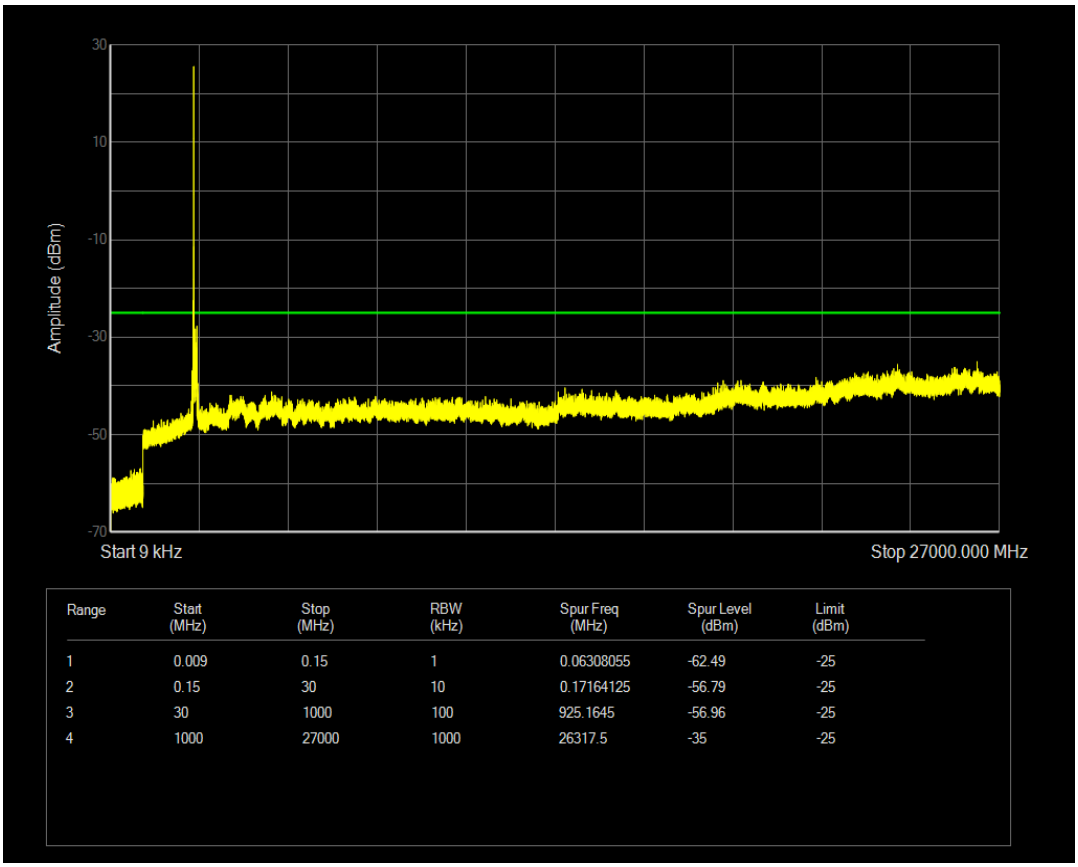
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063330825	-62.74	-25
2	0.15	30	10	0.15373125	-56.06	-25
3	30	1000	100	971.16675	-56.49	-25
4	1000	27000	1000	26318.15	-35.49	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=509202 RB=1@272



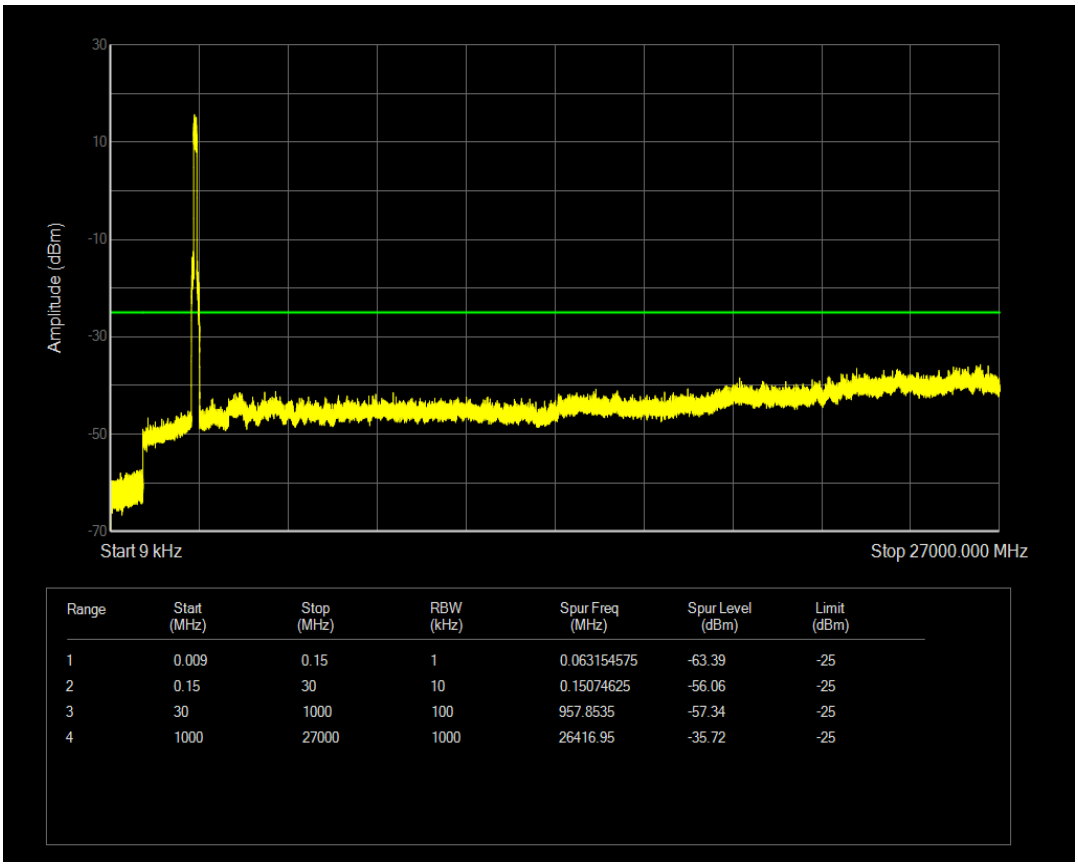
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0632709	-63.54	-25
2	0.15	30	10	0.15	-57.31	-25
3	30	1000	100	827.80075	-57.17	-25
4	1000	27000	1000	26299.95	-34.54	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=518598 RB=1@0



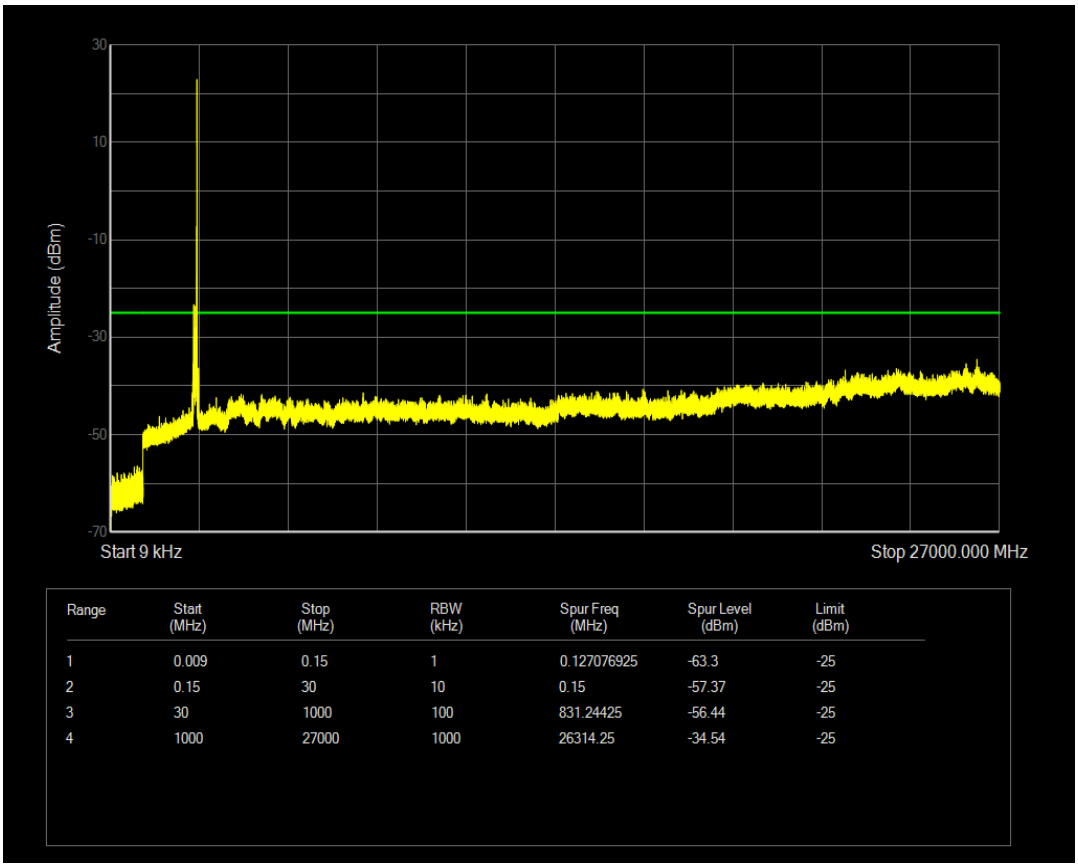
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06308055	-62.49	-25
2	0.15	30	10	0.17164125	-56.79	-25
3	30	1000	100	925.1645	-56.96	-25
4	1000	27000	1000	26317.5	-35	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=518598 RB=270@0



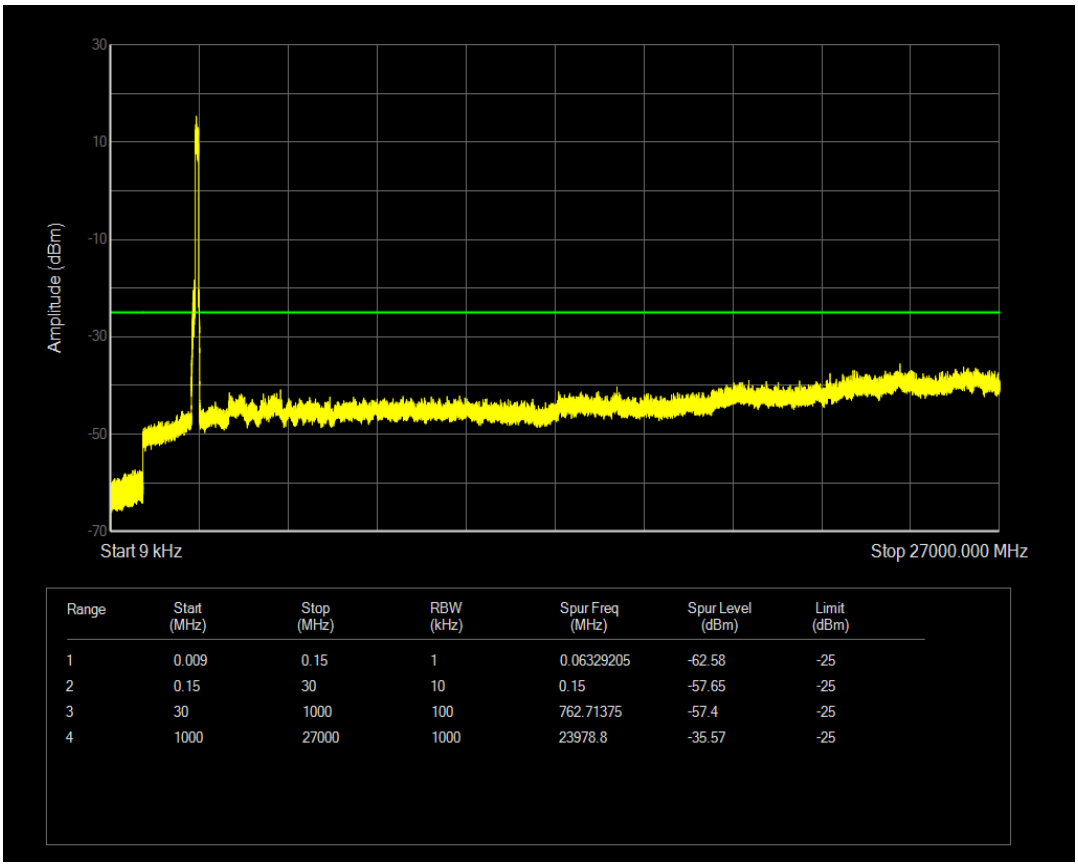
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063154575	-63.39	-25
2	0.15	30	10	0.15074625	-56.06	-25
3	30	1000	100	957.8535	-57.34	-25
4	1000	27000	1000	26416.95	-35.72	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=518598 RB=1@272



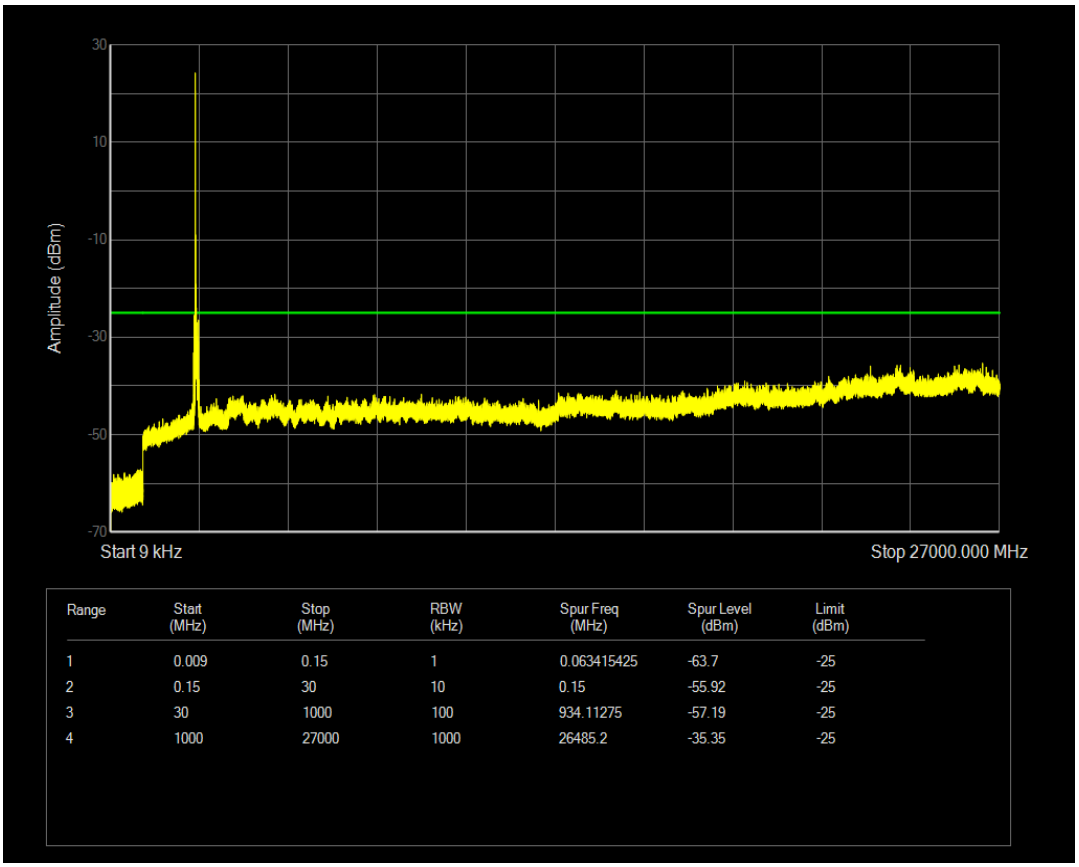
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.127076925	-63.3	-25
2	0.15	30	10	0.15	-57.37	-25
3	30	1000	100	831.24425	-56.44	-25
4	1000	27000	1000	26314.25	-34.54	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=528000 RB=270@0



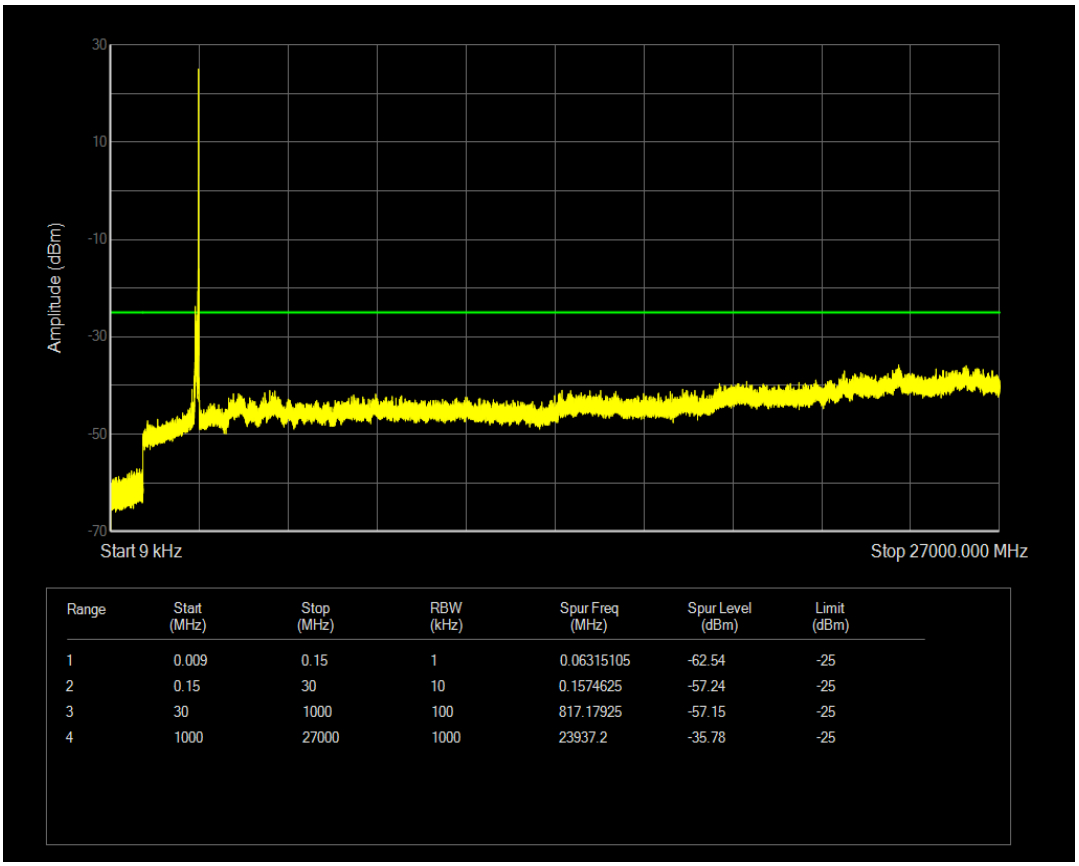
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06329205	-62.58	-25
2	0.15	30	10	0.15	-57.65	-25
3	30	1000	100	762.71375	-57.4	-25
4	1000	27000	1000	23978.8	-35.57	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=528000 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063415425	-63.7	-25
2	0.15	30	10	0.15	-55.92	-25
3	30	1000	100	934.11275	-57.19	-25
4	1000	27000	1000	26485.2	-35.35	-25

n41 SCS=30kHz DFT_QPSK BW=100MHz Channel=528000 RB=1@272



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06315105	-62.54	-25
2	0.15	30	10	0.1574625	-57.24	-25
3	30	1000	100	817.17925	-57.15	-25
4	1000	27000	1000	23937.2	-35.78	-25