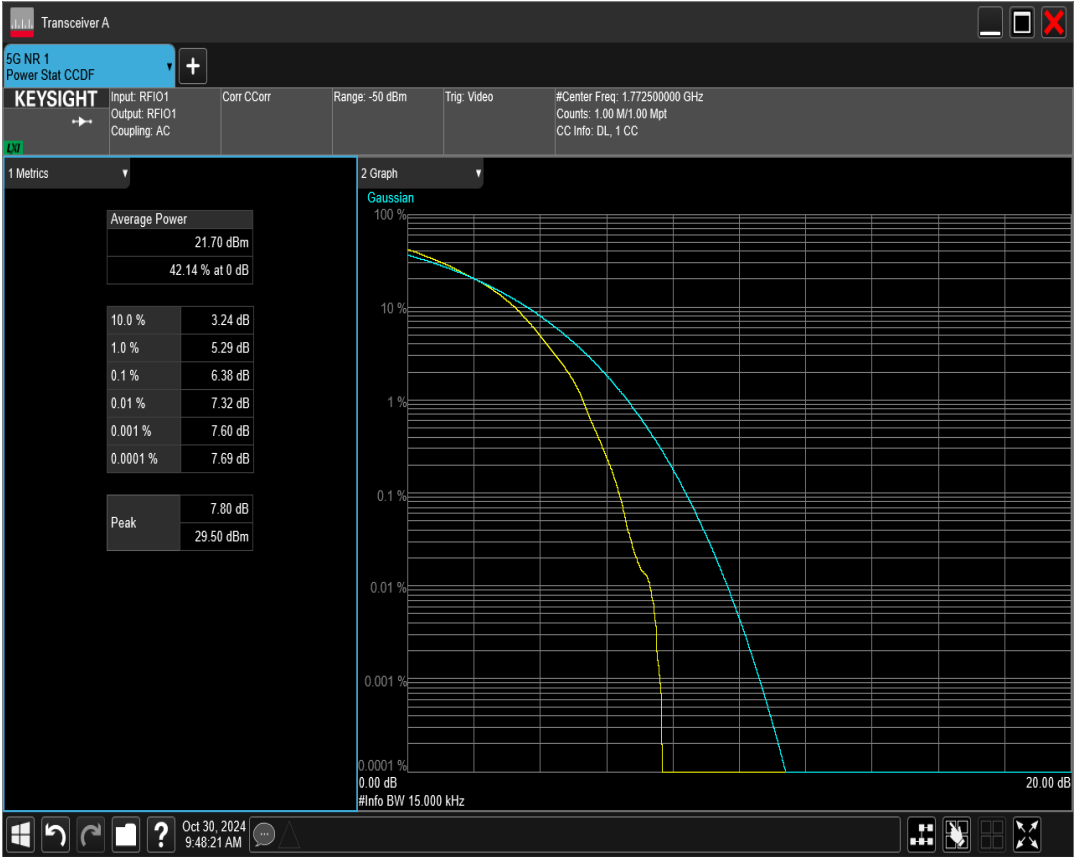
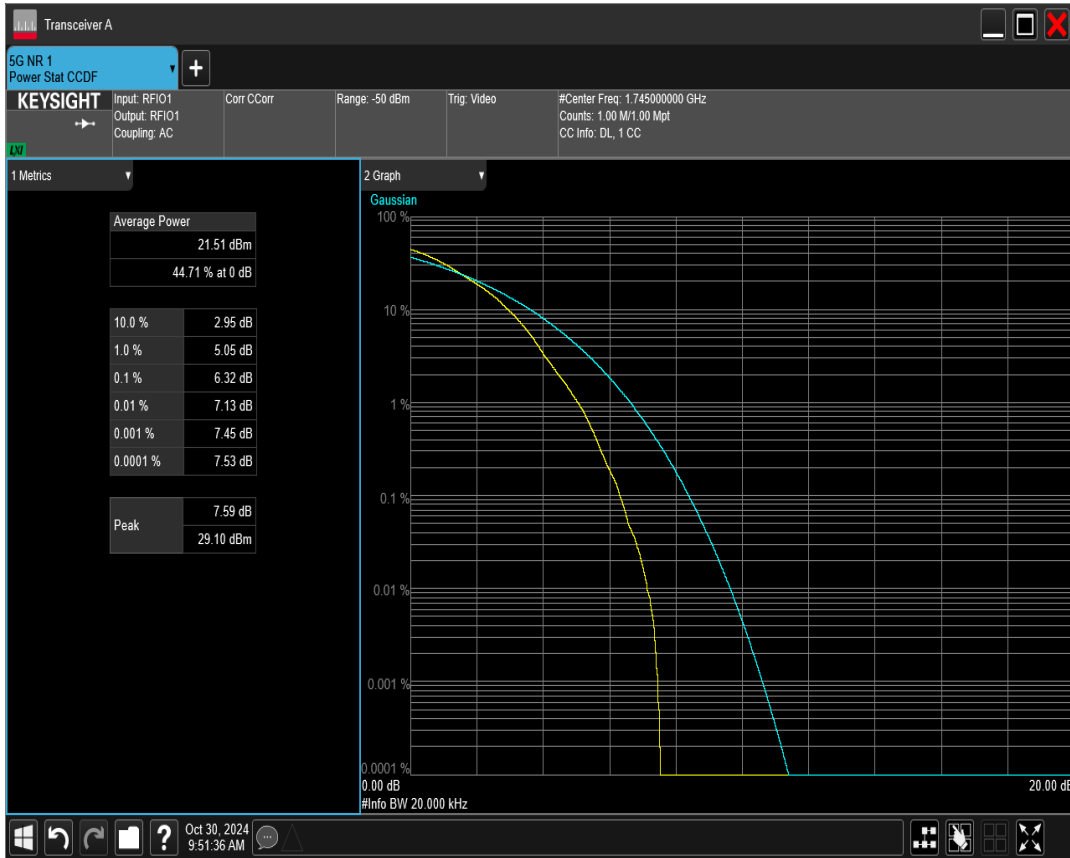


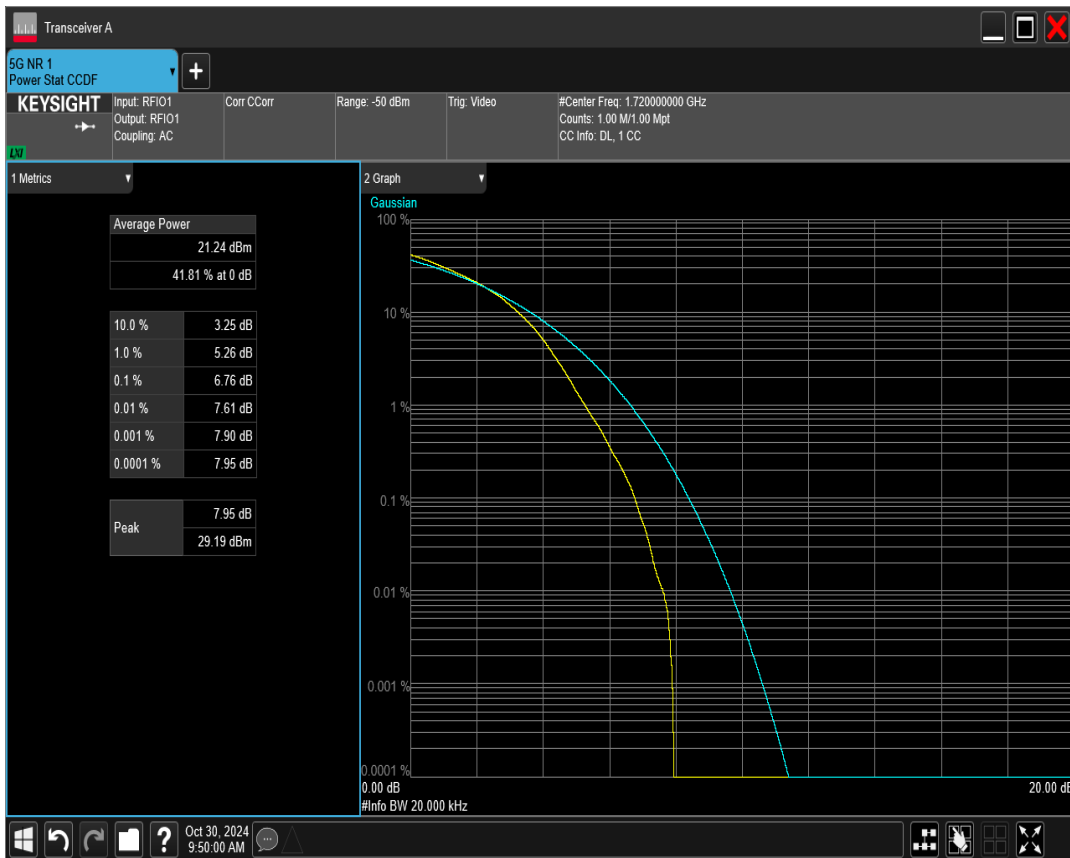
*n66 SCS=30kHz DFT\_QAM64 BW=15MHz Channel=354500 RB=36@0*



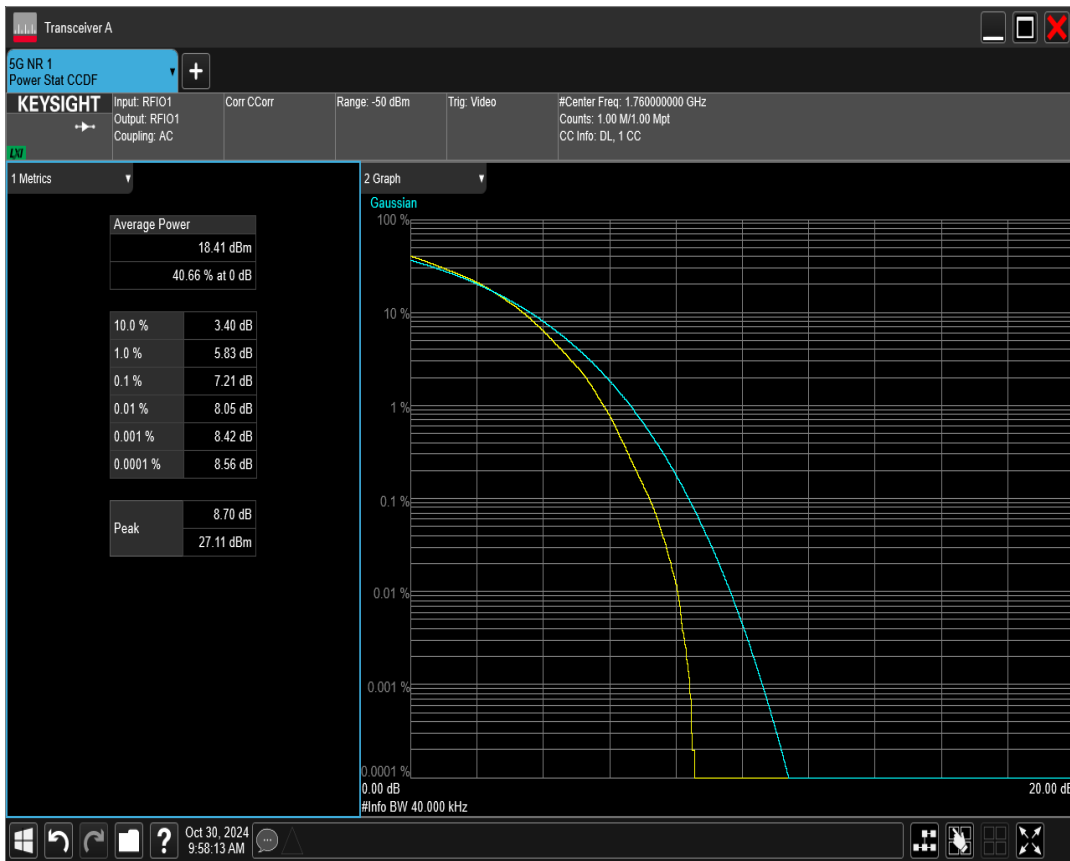
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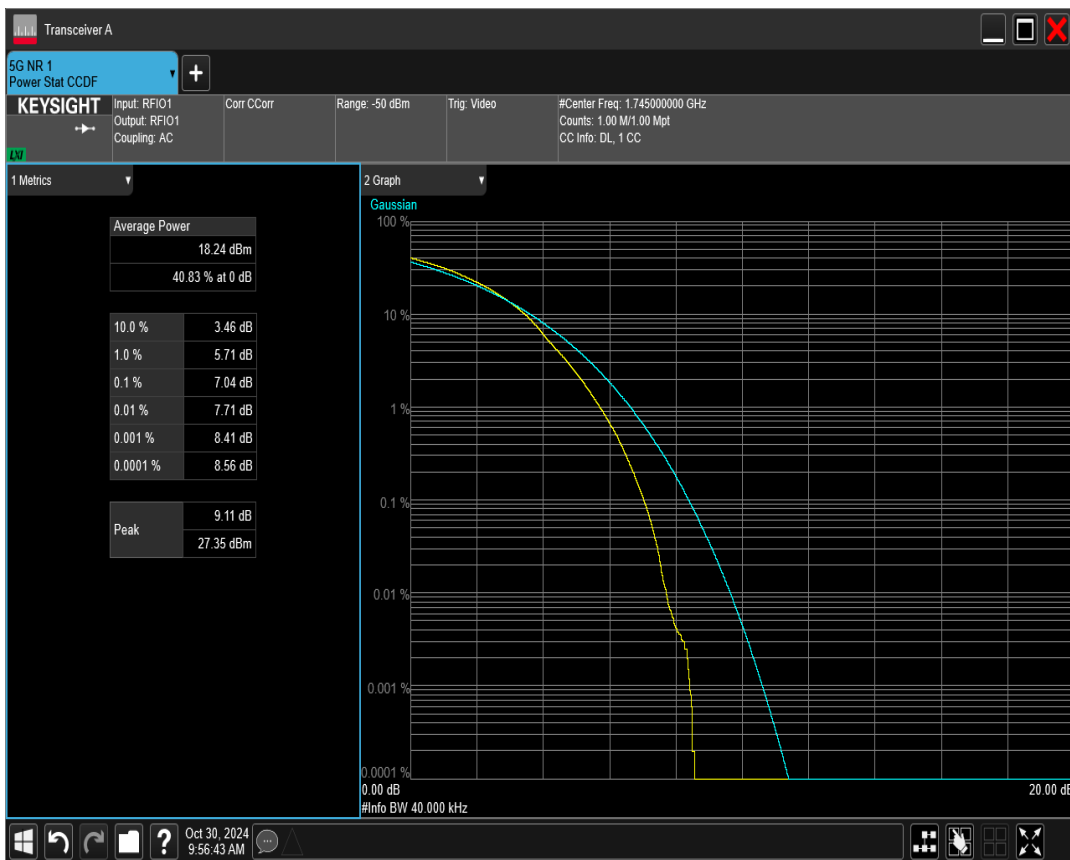
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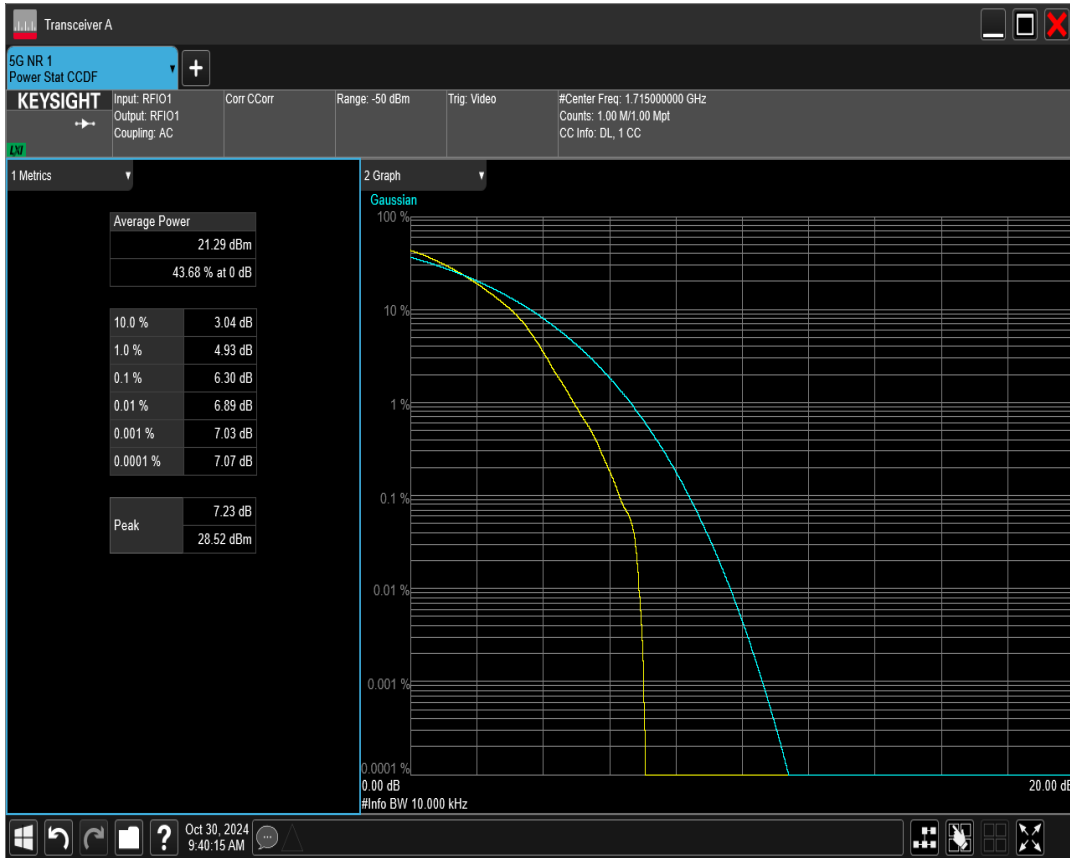
*n66 SCS=30kHz DFT\_QAM256 BW=40MHz Channel=352000 RB=100@0*



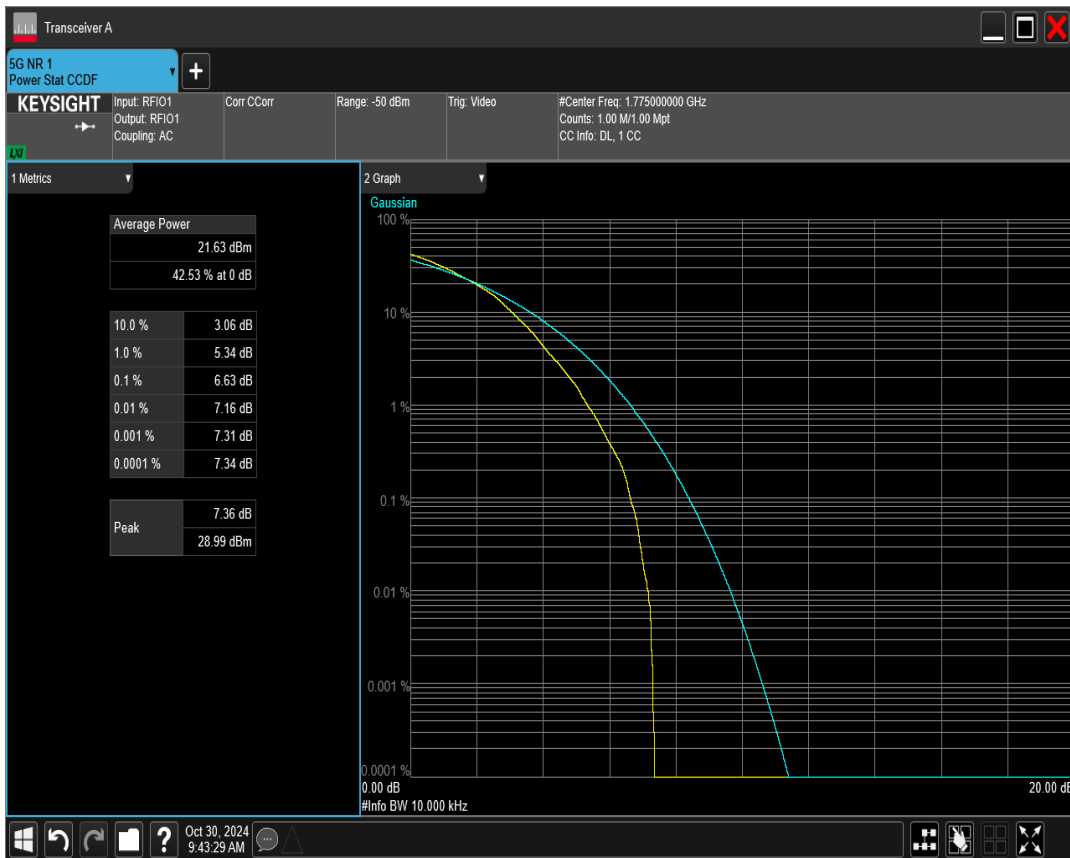
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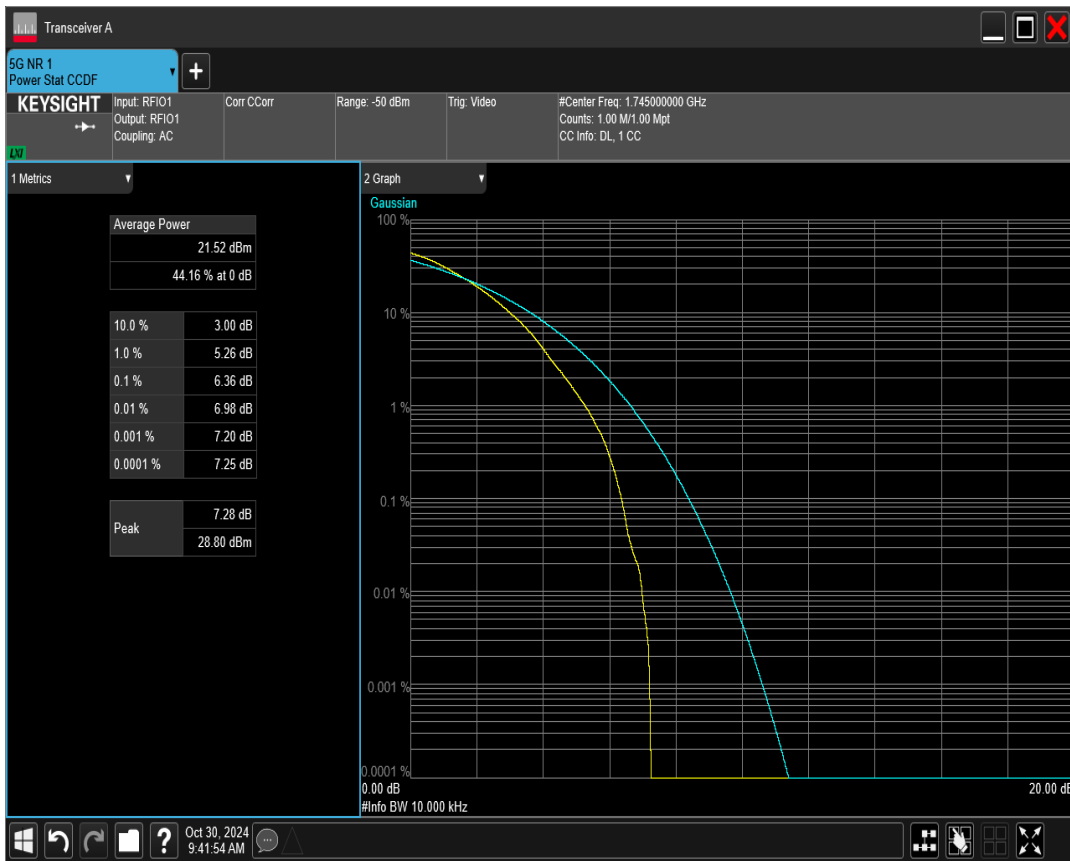
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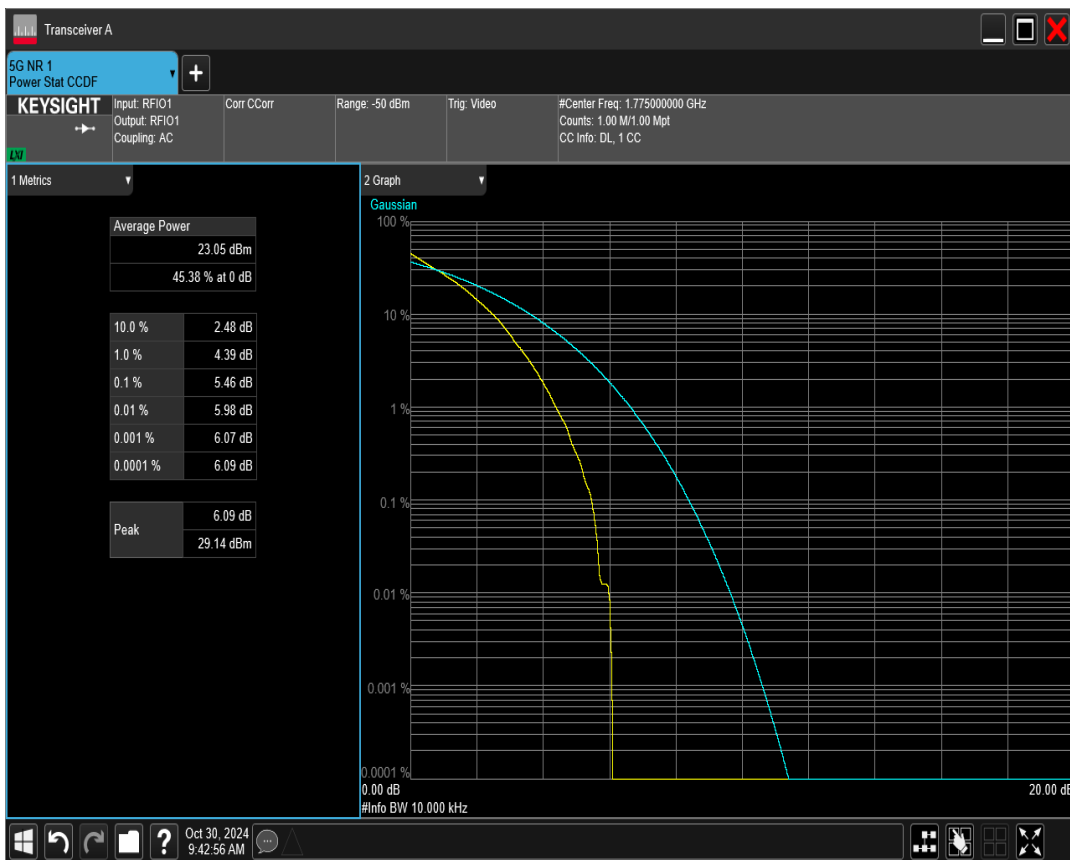
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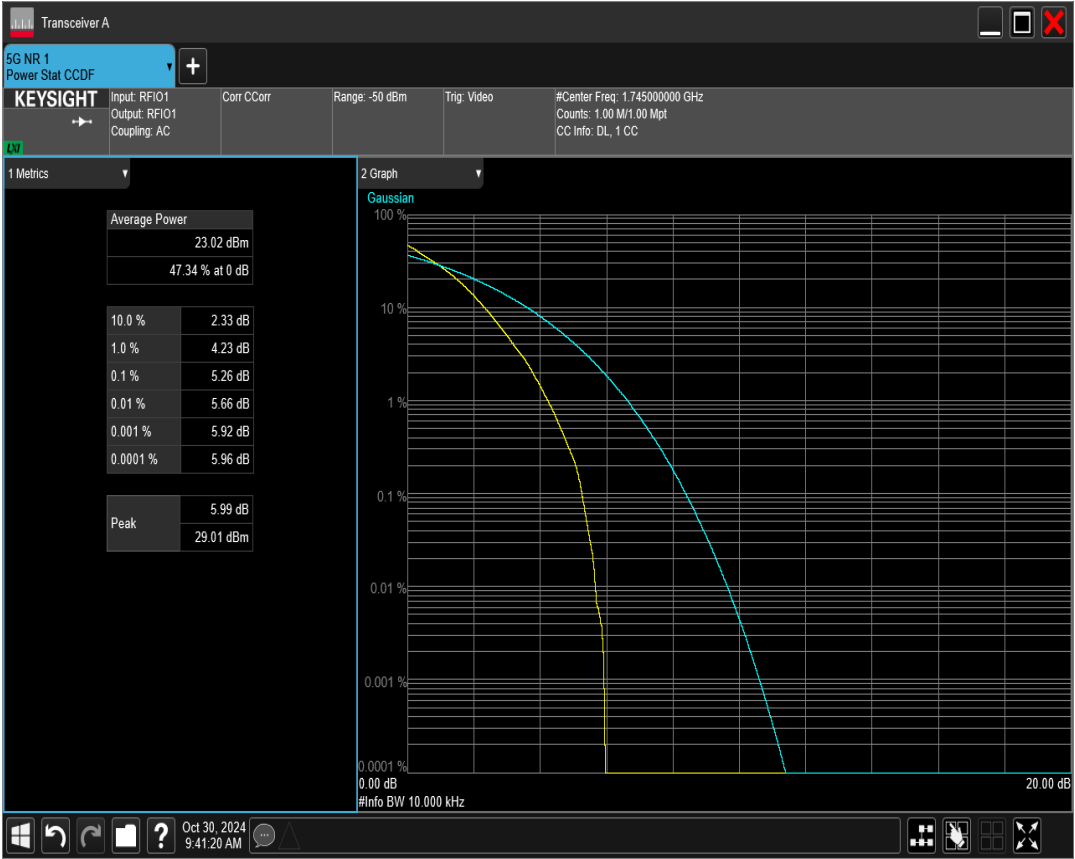
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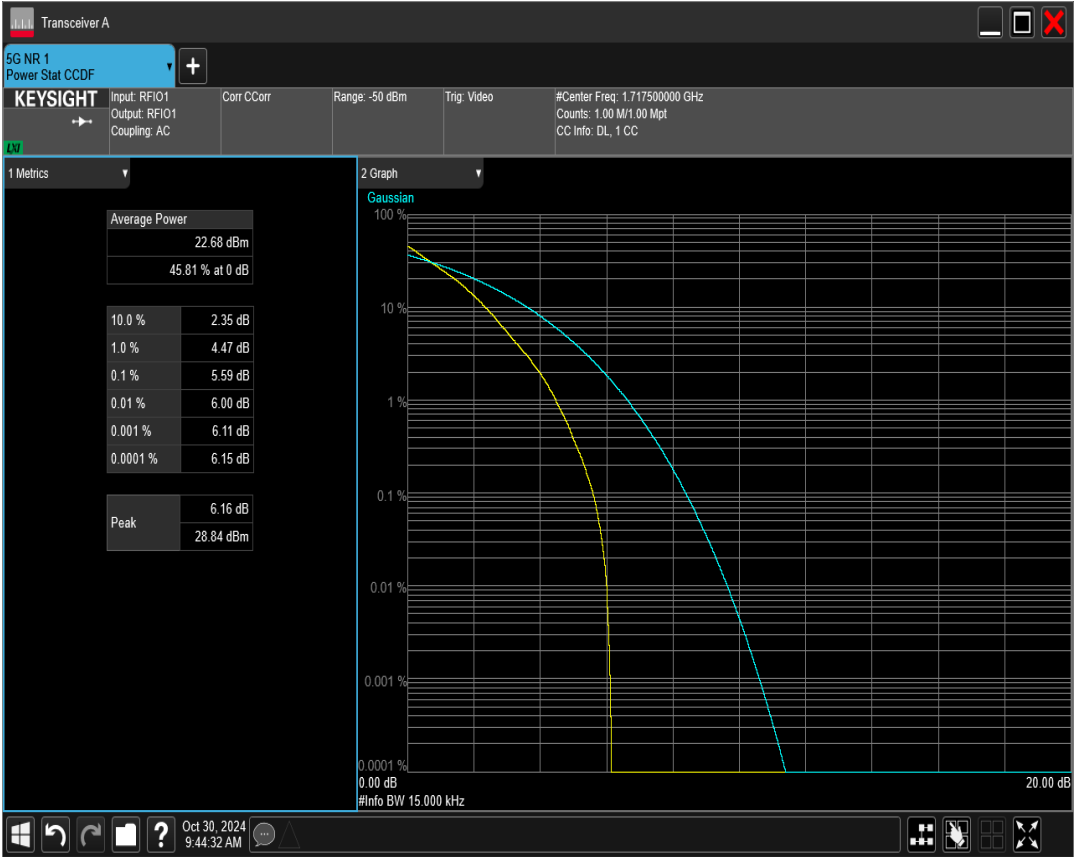
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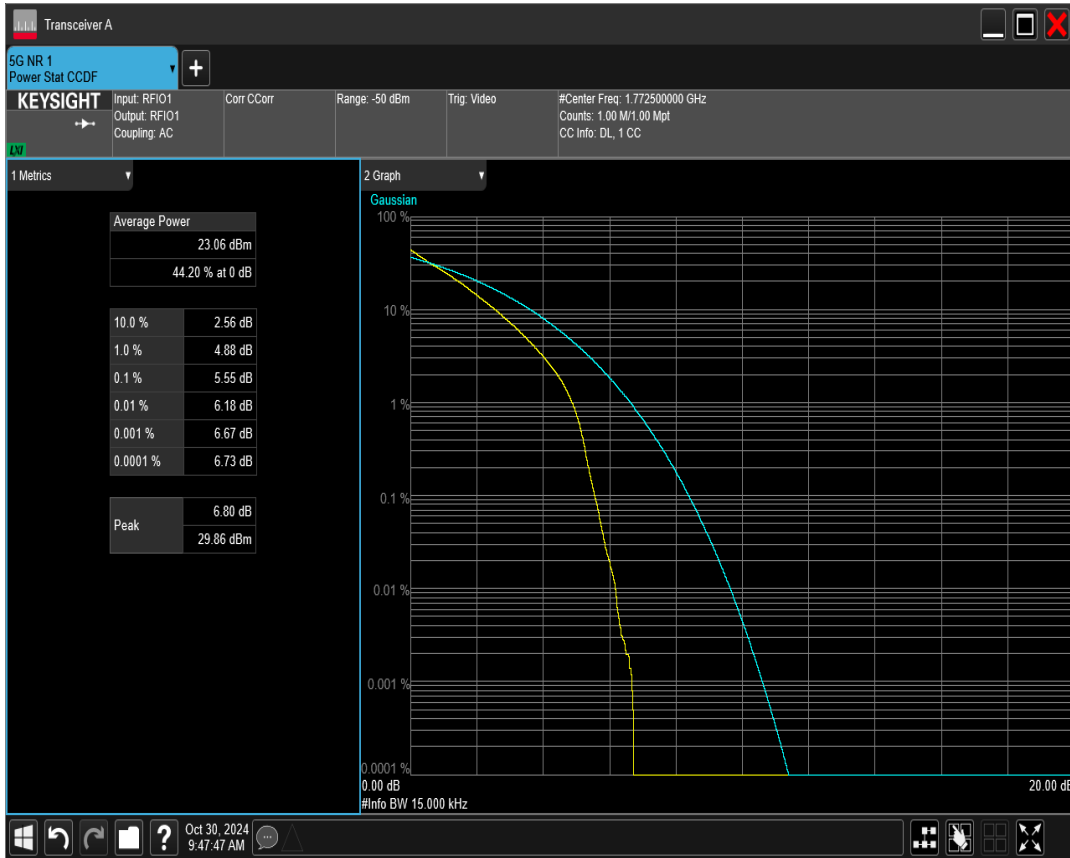
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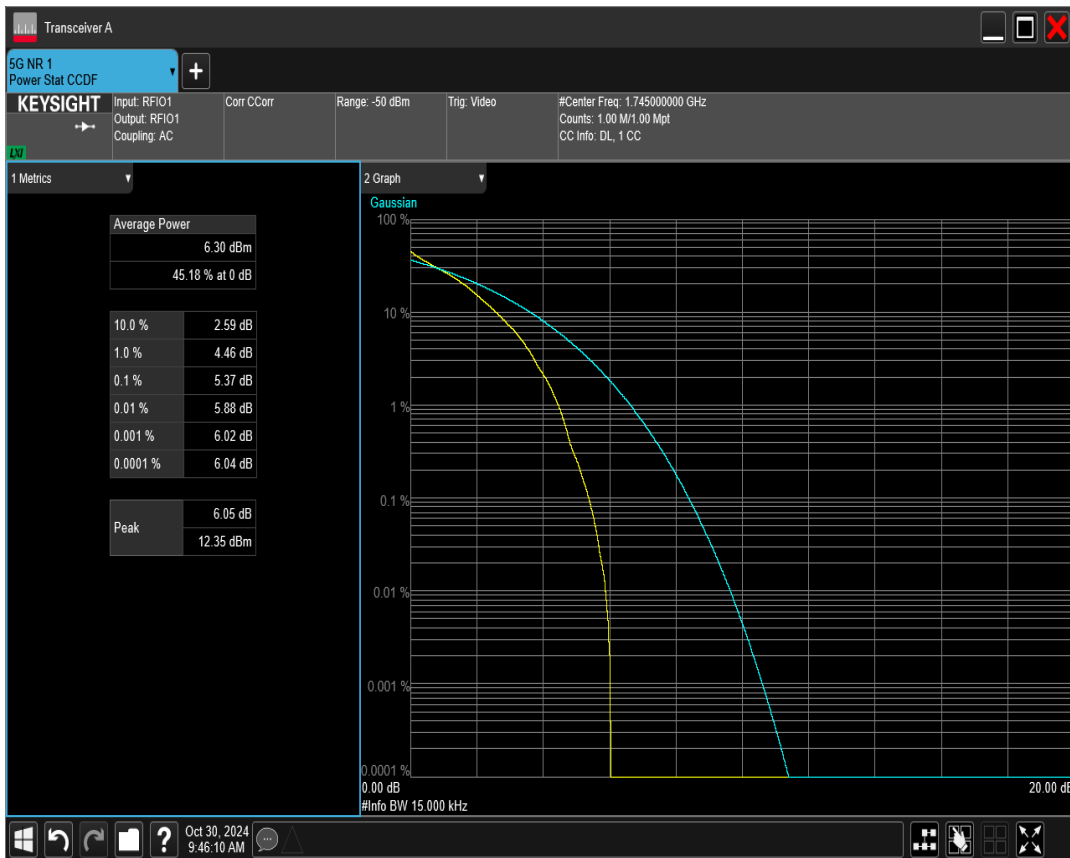
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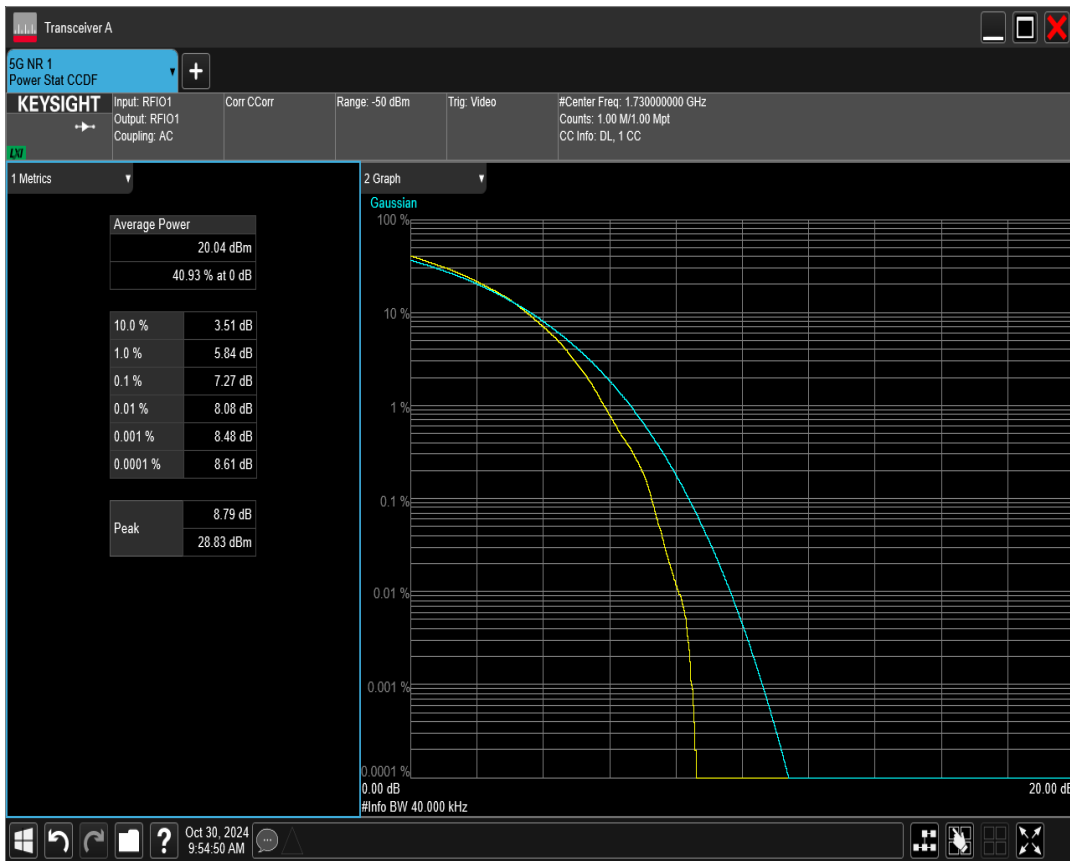
*n66 SCS=30kHz DFT\_QPSK BW=15MHz Channel=354500 RB=36 @0*



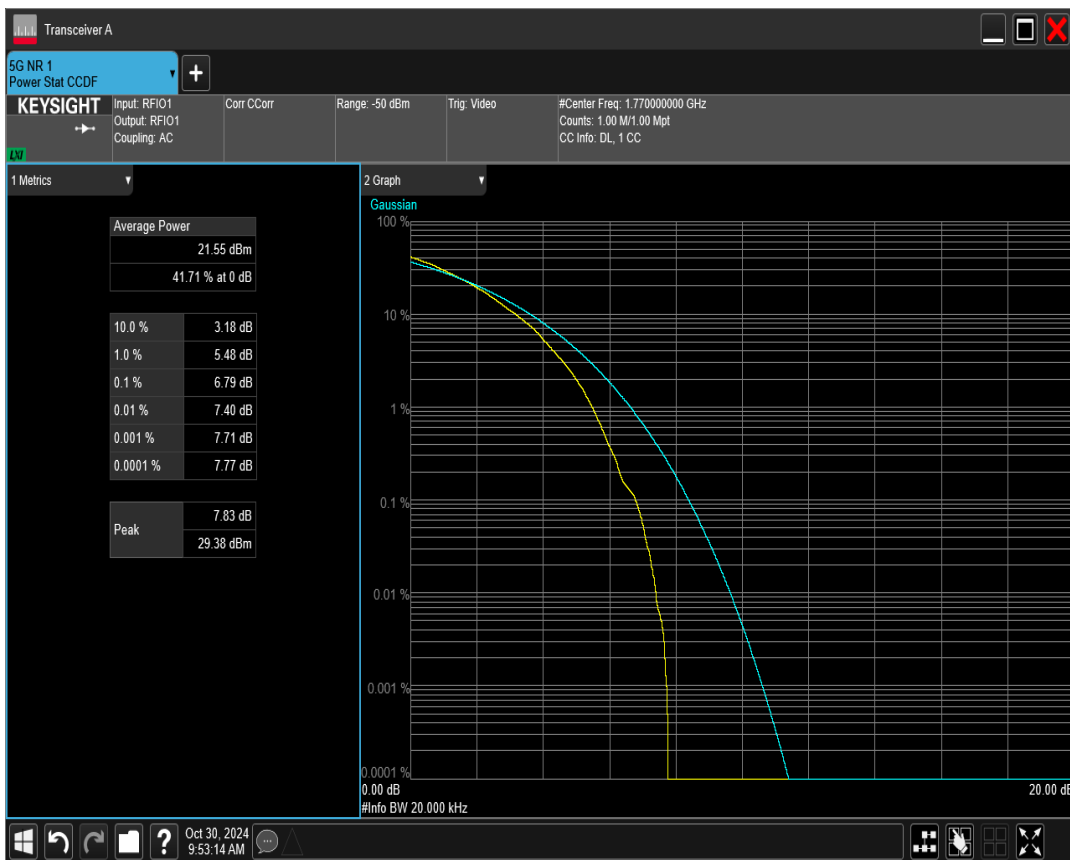
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**n66 SCS=30kHz DFT\_QAM64 BW=40MHz Channel=346000 RB=100 @0**

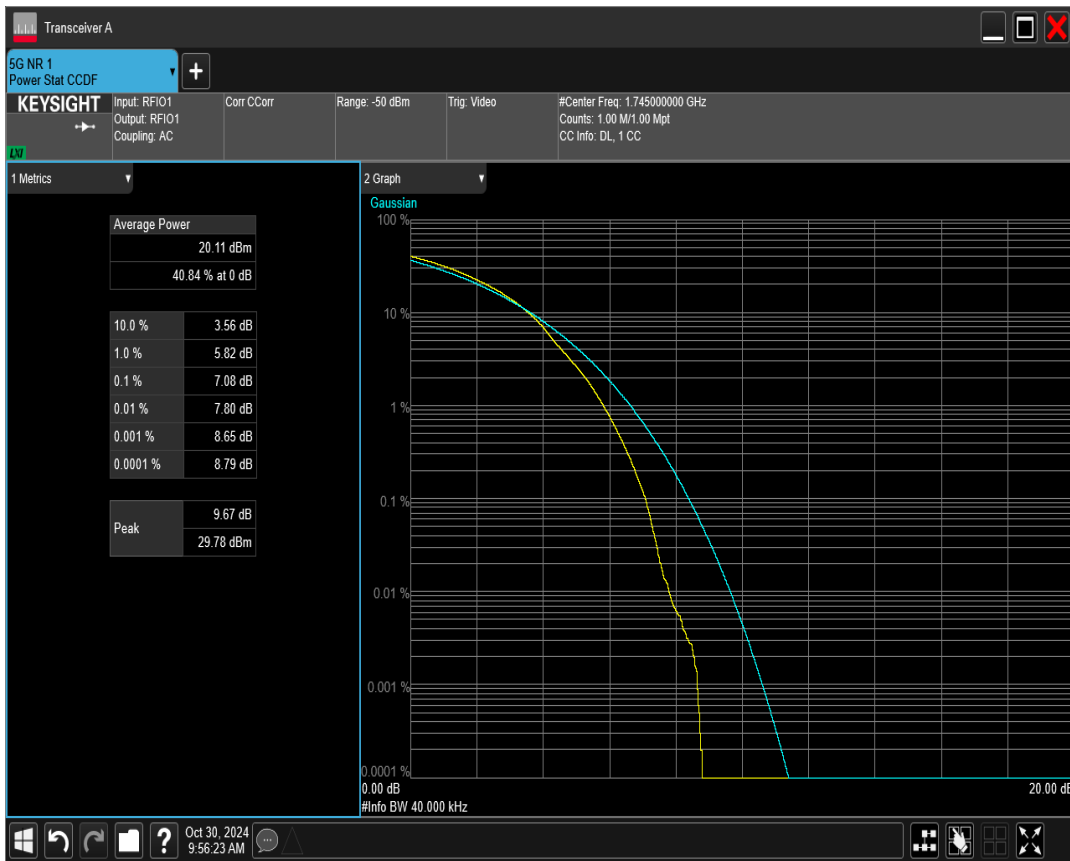


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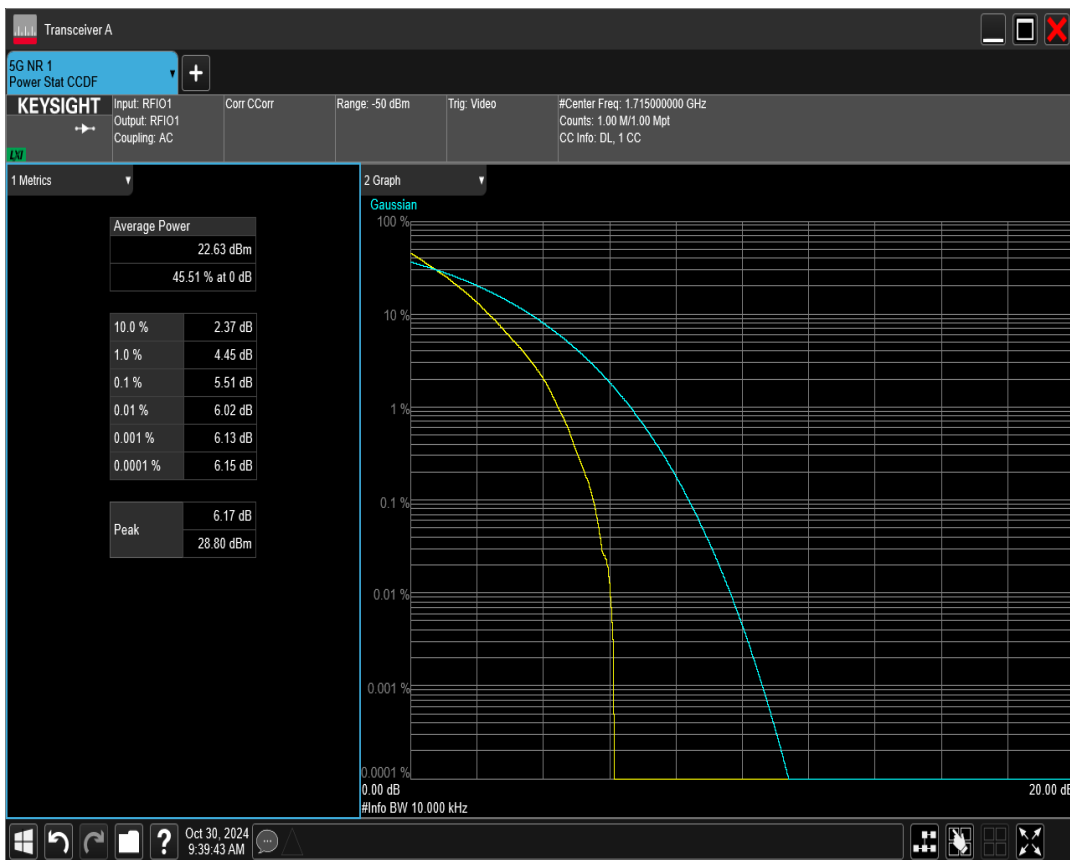


*n66 SCS=30kHz DFT\_QAM64 BW=40MHz Channel=349000 RB=100@0*

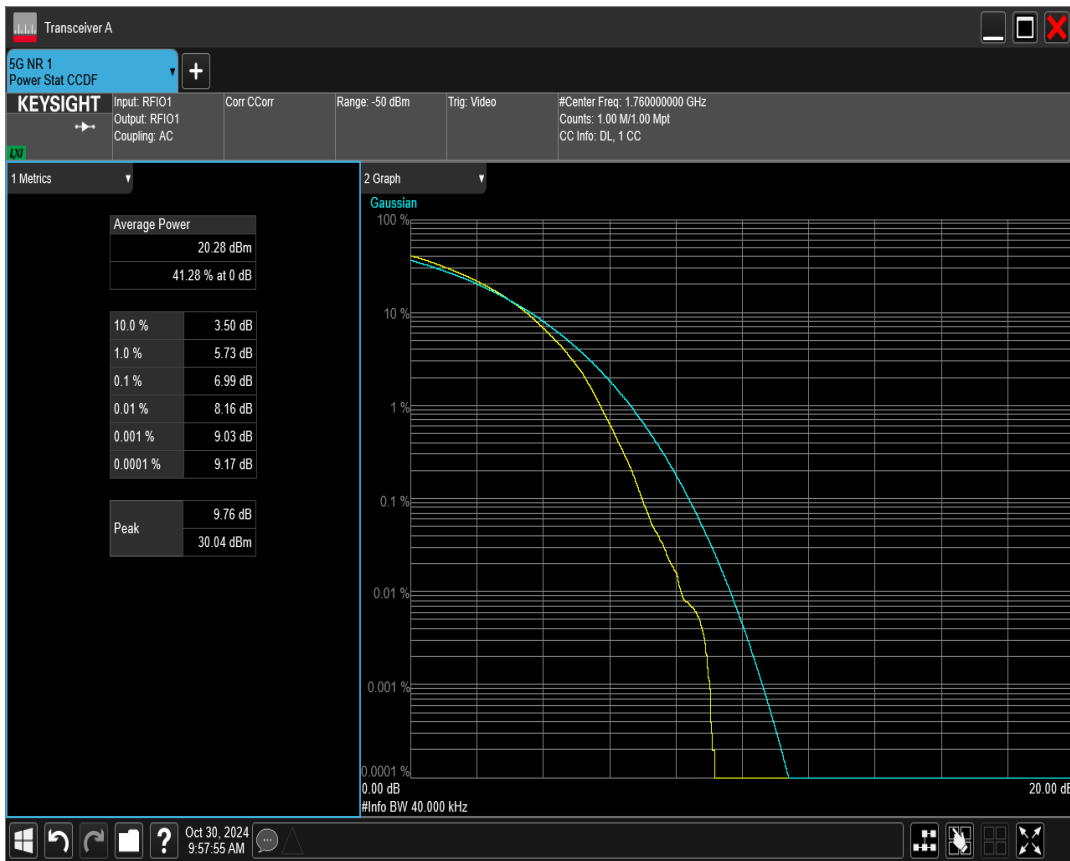




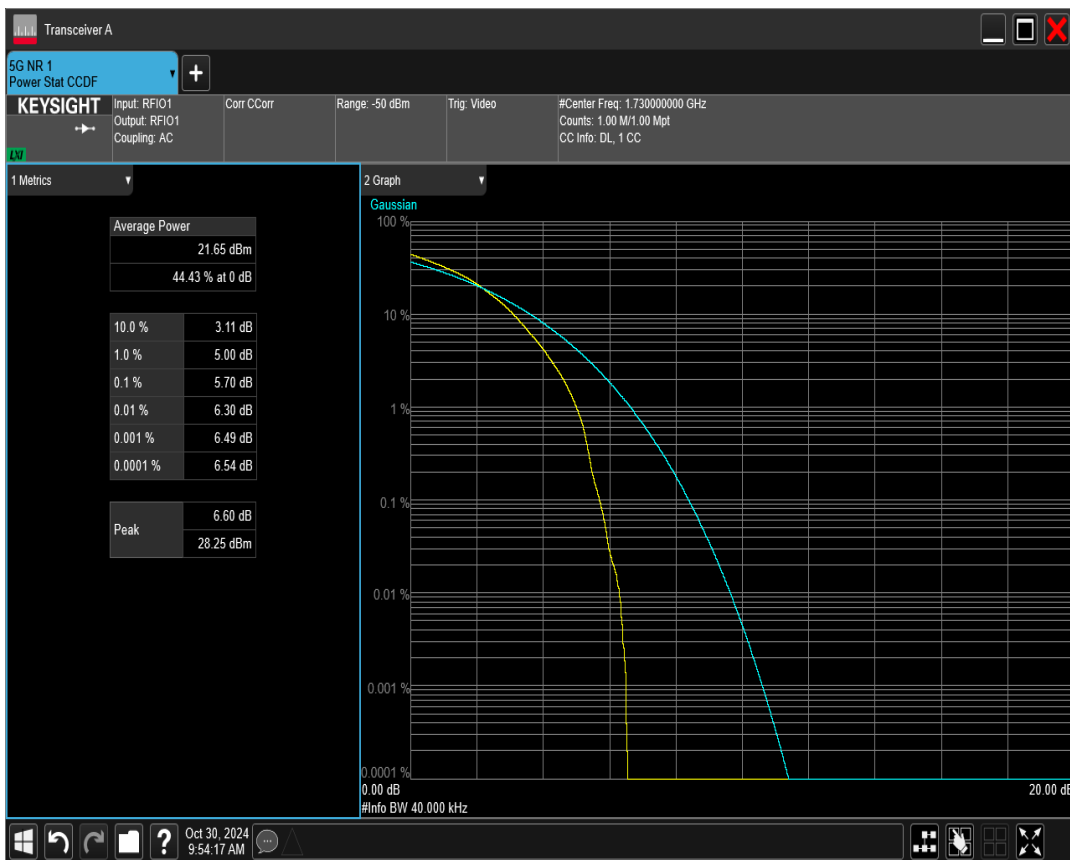
***n66 SCS=30kHz DFT\_QPSK BW=10MHz Channel=343000 RB=24 @0***



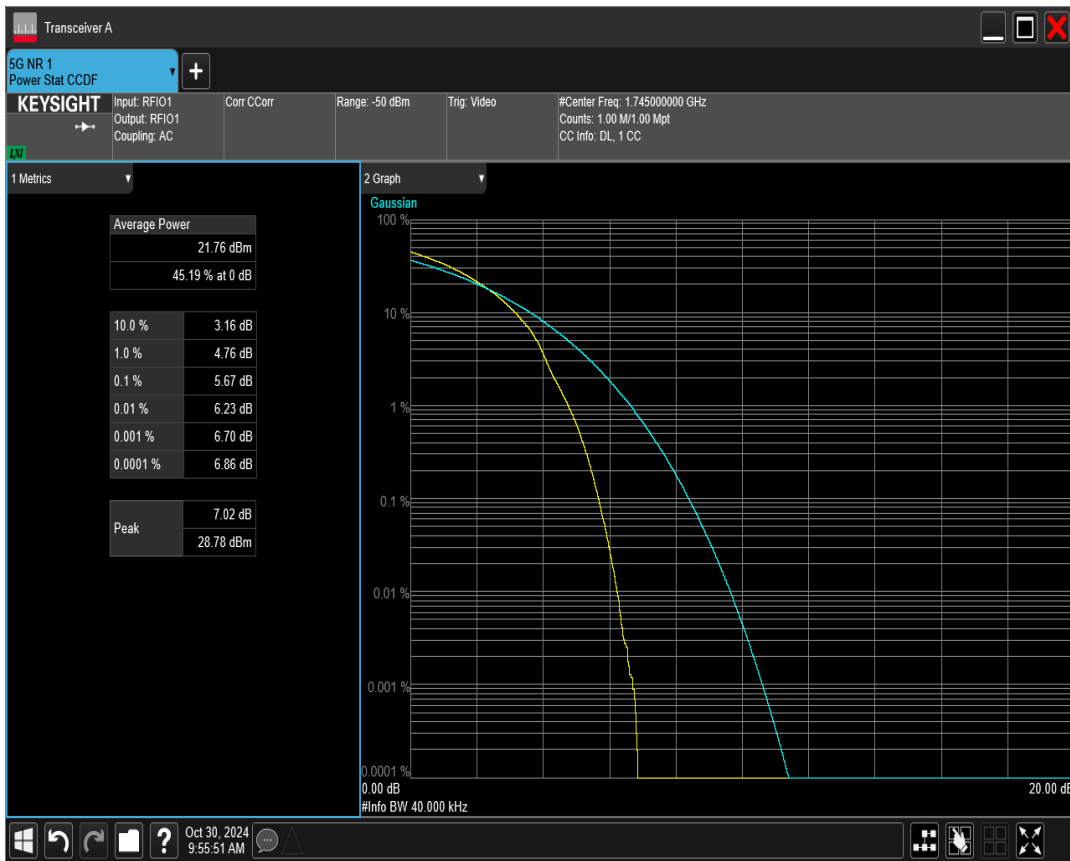
***n66 SCS=30kHz DFT\_QAM64 BW=40MHz Channel=352000 RB=100 @0***



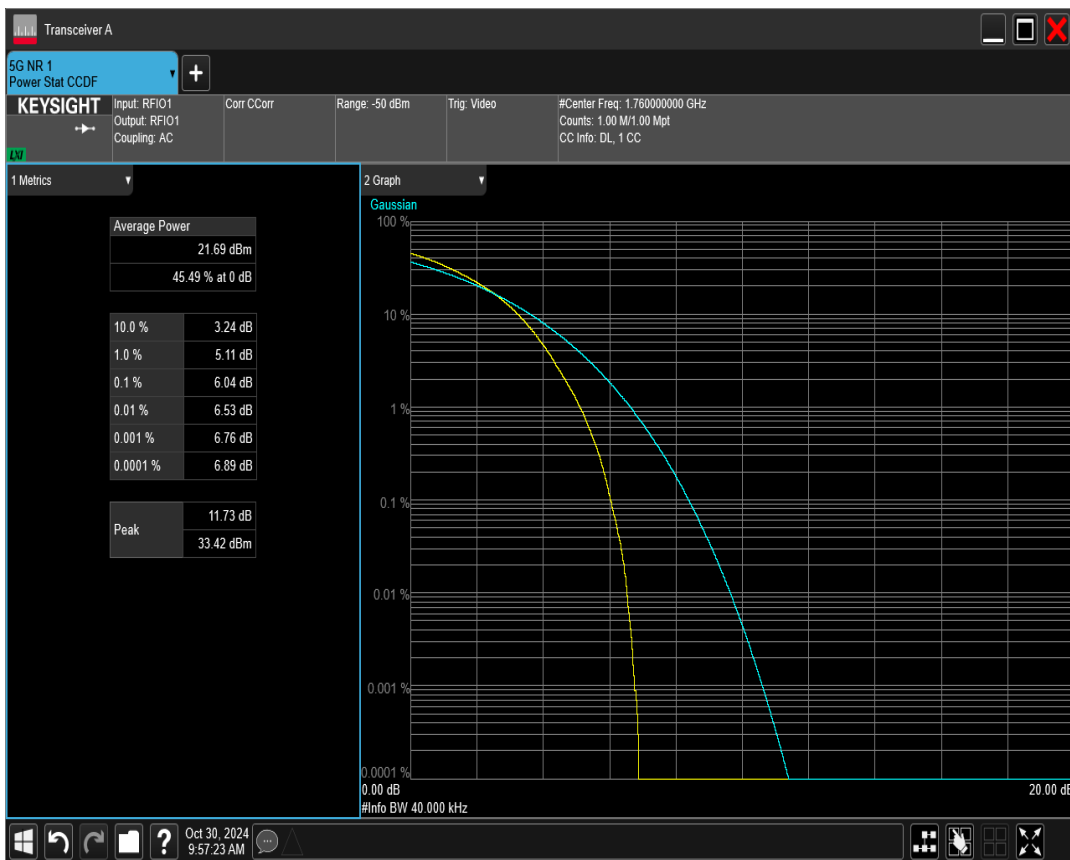
*n66 SCS=30kHz DFT\_QPSK BW=40MHz Channel=346000 RB=100@0*



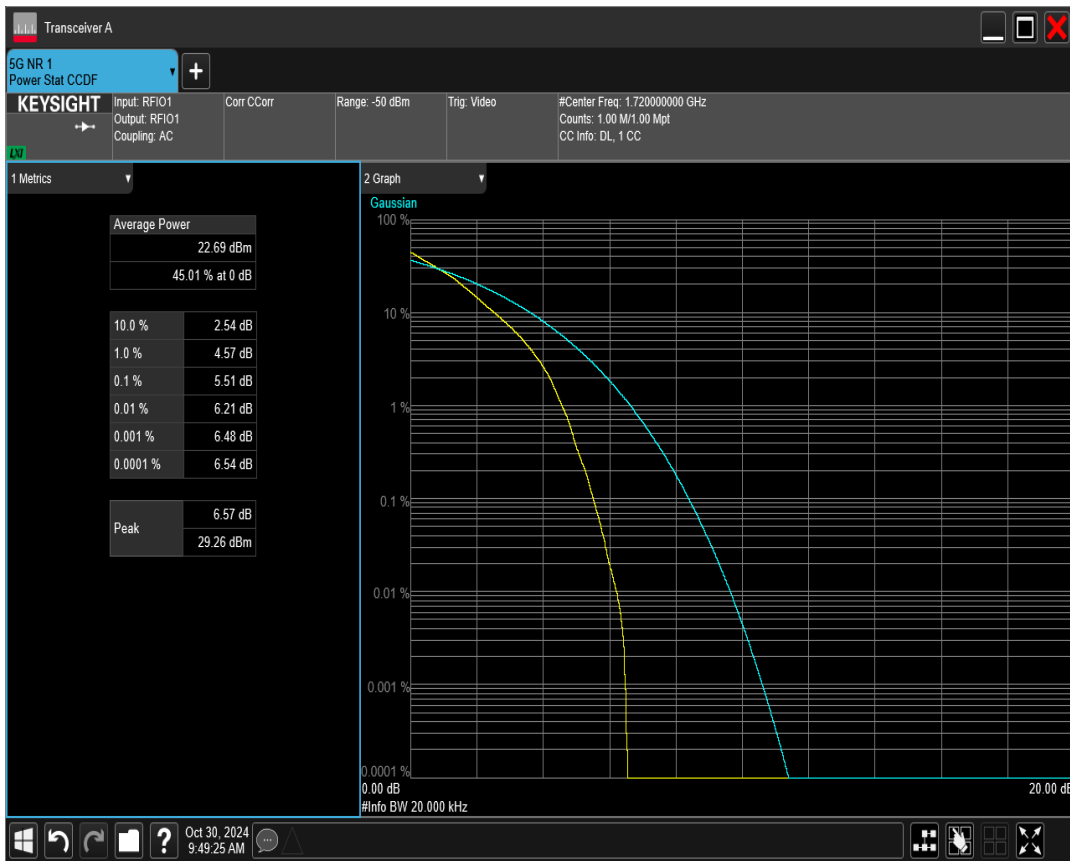
*n66 SCS=30kHz DFT\_QPSK BW=40MHz Channel=349000 RB=100@0*



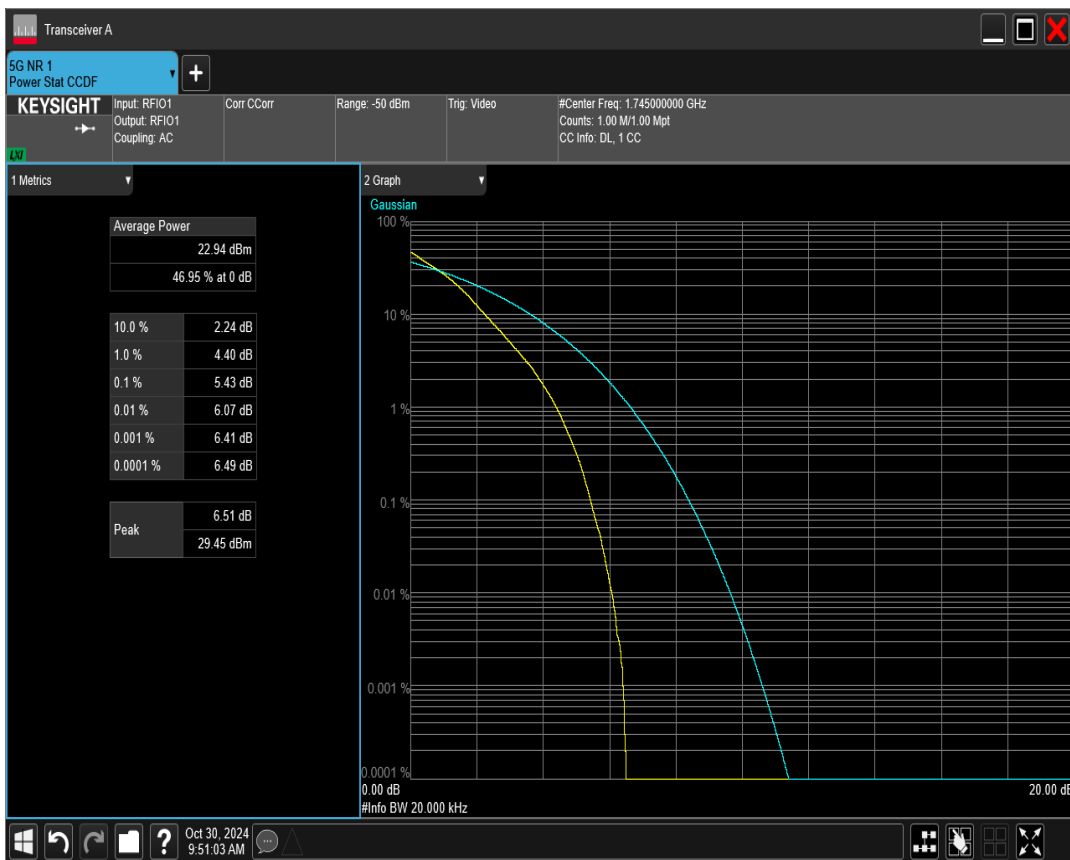
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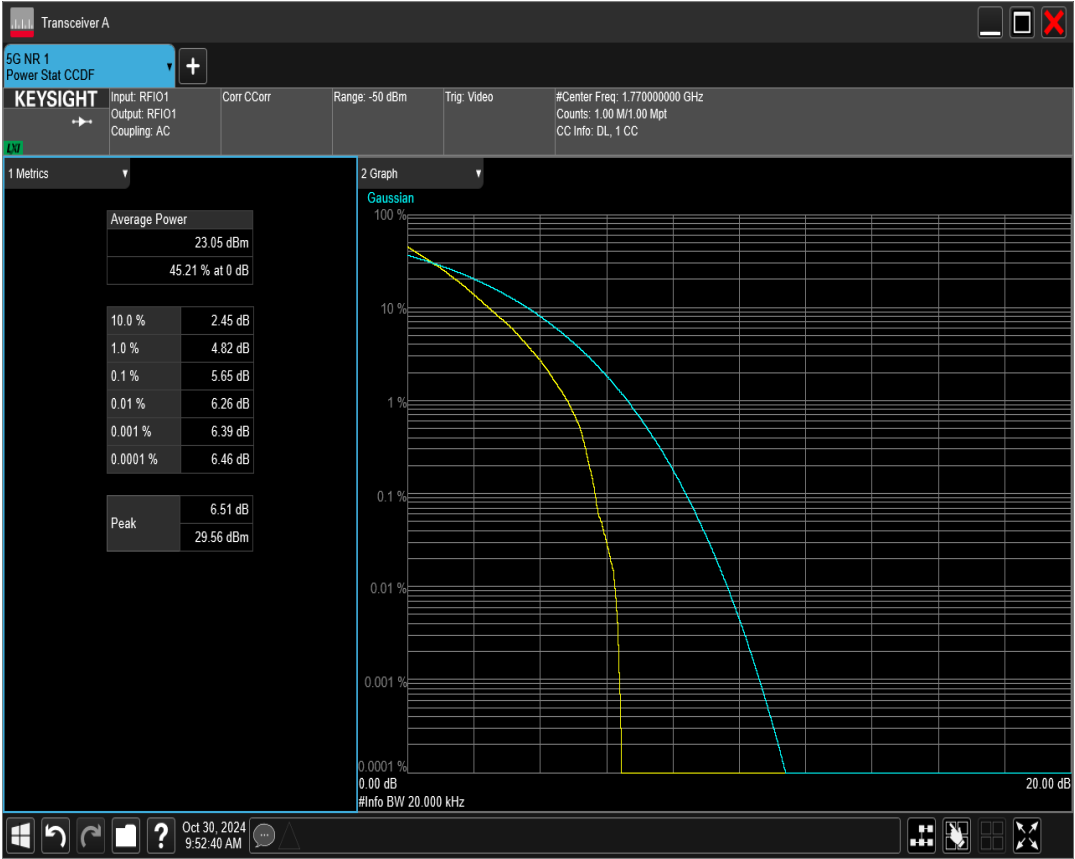
*n66 SCS=30kHz DFT\_QPSK BW=20MHz Channel=344000 RB=50@0*



*n66 SCS=30kHz DFT\_QPSK BW=20MHz Channel=349000 RB=50@0*



*n66 SCS=30kHz DFT\_QPSK BW=20MHz Channel=354000 RB=50@0*



## 4 Occupied bandwidth for EN-DC

<b>Band</b>	<b>SCS (kHz)</b>	<b>Bandwidth (MHz)</b>	<b>UL Channel</b>	<b>RB Allocation</b>	<b>Modulation</b>	<b>99% OBW (MHz)</b>	<b>-26dB EBW (MHz)</b>	<b>Verdict</b>
n66	15	5	349000	25@0	DFT_BPSK	4.460	4.640	PASS
n66	15	5	349000	25@0	DFT_QPSK	4.470	4.660	PASS
n66	15	5	349000	25@0	DFT_QAM16	4.460	4.650	PASS
n66	15	5	349000	25@0	DFT_QAM64	4.470	4.700	PASS
n66	15	5	349000	25@0	DFT_QAM256	4.460	4.630	PASS
n66	15	10	349000	50@0	DFT_BPSK	9.220	9.150	PASS
n66	15	10	349000	50@0	DFT_QPSK	9.240	9.220	PASS
n66	15	10	349000	50@0	DFT_QAM16	9.190	9.120	PASS
n66	15	10	349000	50@0	DFT_QAM64	9.140	9.100	PASS
n66	15	10	349000	50@0	DFT_QAM256	9.160	9.120	PASS
n66	15	15	349000	75@0	DFT_BPSK	13.950	13.600	PASS
n66	15	15	349000	75@0	DFT_QPSK	13.970	13.600	PASS
n66	15	15	349000	75@0	DFT_QAM16	14.030	13.670	PASS
n66	15	15	349000	75@0	DFT_QAM64	13.950	13.620	PASS
n66	15	15	349000	75@0	DFT_QAM256	13.990	13.620	PASS
n66	15	20	349000	100@0	DFT_BPSK	18.780	18.240	PASS
n66	15	20	349000	100@0	DFT_QPSK	18.750	18.130	PASS
n66	15	20	349000	100@0	DFT_QAM16	18.730	18.150	PASS
n66	15	20	349000	100@0	DFT_QAM64	18.730	18.130	PASS
n66	15	20	349000	100@0	DFT_QAM256	18.750	18.130	PASS
n66	15	40	349000	216@0	DFT_BPSK	38.470	39.030	PASS
n66	15	40	349000	216@0	DFT_QPSK	38.470	39.020	PASS
n66	15	40	349000	216@0	DFT_QAM16	38.480	38.970	PASS
n66	15	40	349000	216@0	DFT_QAM64	38.470	39.060	PASS
n66	15	40	349000	216@0	DFT_QAM256	38.460	39.030	PASS

**n66 SCS=15kHz DFT\_BPSK BW=10MHz Channel=349000 RB=50@0**



**n66 SCS=15kHz DFT\_BPSK BW=5MHz Channel=349000 RB=25 @0**



**n66 SCS=15kHz DFT\_QAM16 BW=10MHz Channel=349000 RB=50 @0**



**n66 SCS=15kHz DFT\_QAM16 BW=15MHz Channel=349000 RB=75@0**



**n66 SCS=15kHz DFT\_BPSK BW=15MHz Channel=349000 RB=75@0**





**n66 SCS=15kHz DFT\_BPSK BW=20MHz Channel=349000 RB=100@0**



**n66 SCS=15kHz DFT\_BPSK BW=40MHz Channel=349000 RB=216@0**



**n66 SCS=15kHz DFT\_QAM256 BW=10MHz Channel=349000 RB=50@0**



**n66 SCS=15kHz DFT\_QAM256 BW=15MHz Channel=349000 RB=75@0**



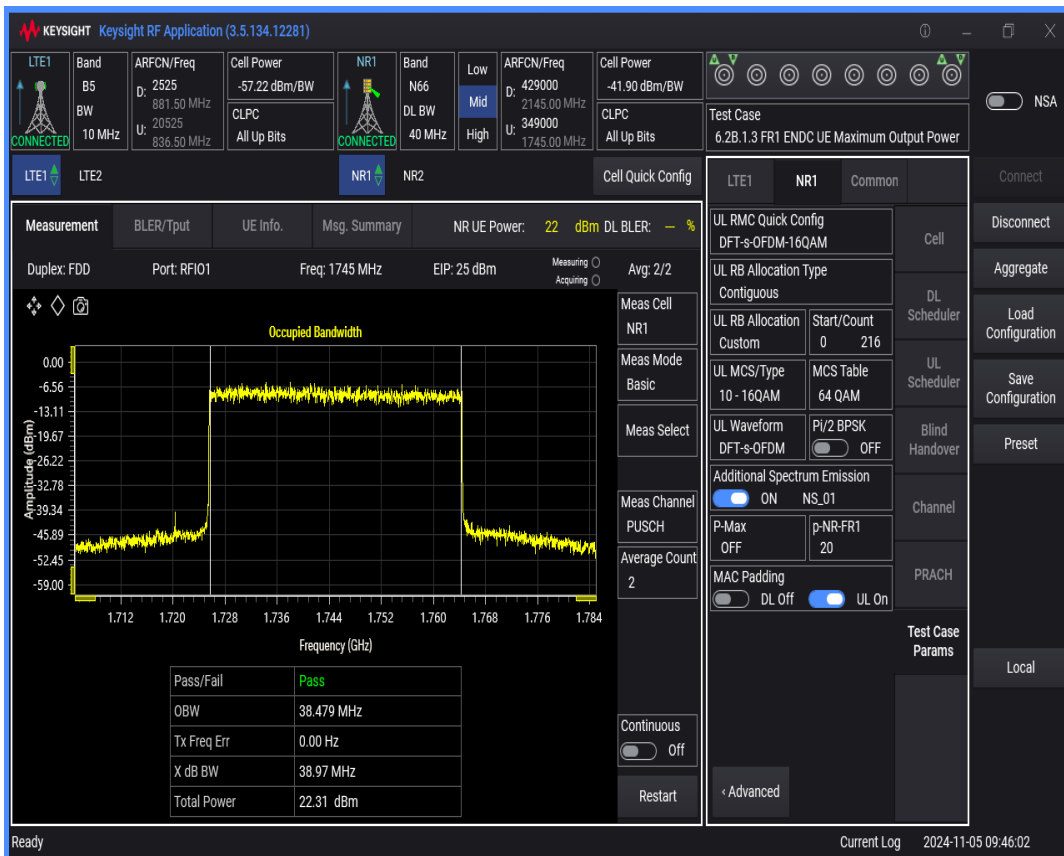
**n66 SCS=15kHz DFT\_QAM16 BW=5MHz Channel=349000 RB=25@0**



**n66 SCS=15kHz DFT\_QAM16 BW=20MHz Channel=349000 RB=100@0**



**n66 SCS=15kHz DFT\_QAM16 BW=40MHz Channel=349000 RB=216 @0**



**n66 SCS=15kHz DFT\_QAM64 BW=20MHz Channel=349000 RB=100 @0**



**n66 SCS=15kHz DFT\_QAM64 BW=15MHz Channel=349000 RB=75@0**



**n66 SCS=15kHz DFT\_QAM64 BW=5MHz Channel=349000 RB=25@0**



**n66 SCS=15kHz DFT\_QAM64 BW=40MHz Channel=349000 RB=216@0**



**n66 SCS=15kHz DFT\_QAM256 BW=40MHz Channel=349000 RB=216@0**



**n66 SCS=15kHz DFT\_QAM256 BW=20MHz Channel=349000 RB=100@0**



**n66 SCS=15kHz DFT\_QAM64 BW=10MHz Channel=349000 RB=50@0**





**n66 SCS=15kHz DFT\_QAM256 BW=5MHz Channel=349000 RB=25@0**



**n66 SCS=15kHz DFT\_QPSK BW=40MHz Channel=349000 RB=216@0**





**n66 SCS=15kHz DFT\_QPSK BW=5MHz Channel=349000 RB=25 @0**



**n66 SCS=15kHz DFT\_QPSK BW=20MHz Channel=349000 RB=100 @0**



**n66 SCS=15kHz DFT\_QPSK BW=10MHz Channel=349000 RB=50@0**



**n66 SCS=15kHz DFT\_QPSK BW=15MHz Channel=349000 RB=75@0**

KEYSIGHT Keysight RF Application (3.5.134.12281)

**LTE1** Band B5 ARFCN/Freq D: 2525 881.50 MHz U: 20525 836.50 MHz Cell Power -57.22 dBm/BW CLPC All Up Bits

**NR1** Band N66 DL BW 15 MHz Low Mid High ARFCN/Freq D: 429000 2145.00 MHz U: 349000 1745.00 MHz Cell Power -43.18 dBm/BW CLPC All Up Bits

Test Case 6.2B.1.3 FR1 ENDC UE Maximum Output Power

NSA

Measurement BLER/Tput UE Info. Msg. Summary NR UE Power: **22 dBm** DL BLER: — %

Duplex: FDD Port: RFIO1 Freq: 1745 MHz EIP: 25 dBm Measuring  Acquiring  Avg: 2/2



Pass/Fail	Pass
OBW	13.968 MHz
Tx Freq Err	0.00 Hz
X dB BW	13.60 MHz
Total Power	22.42 dBm

Cell Quick Config

LTE1 NR1 Common

UL RMC Quick Config DFT-s-OFDM-QPSK

UL RB Allocation Type Contiguous

UL RB Allocation Custom Start/Count 0 75

UL MCS/Table MCS Table 64 QAM

UL Waveform DFT-s-OFDM P/2 BPSK  OFF

Additional Spectrum Emission  ON NS\_01

P-Max OFF p-NR-FR1 20

MAC Padding  DL Off  UL On

Test Case Params

Local

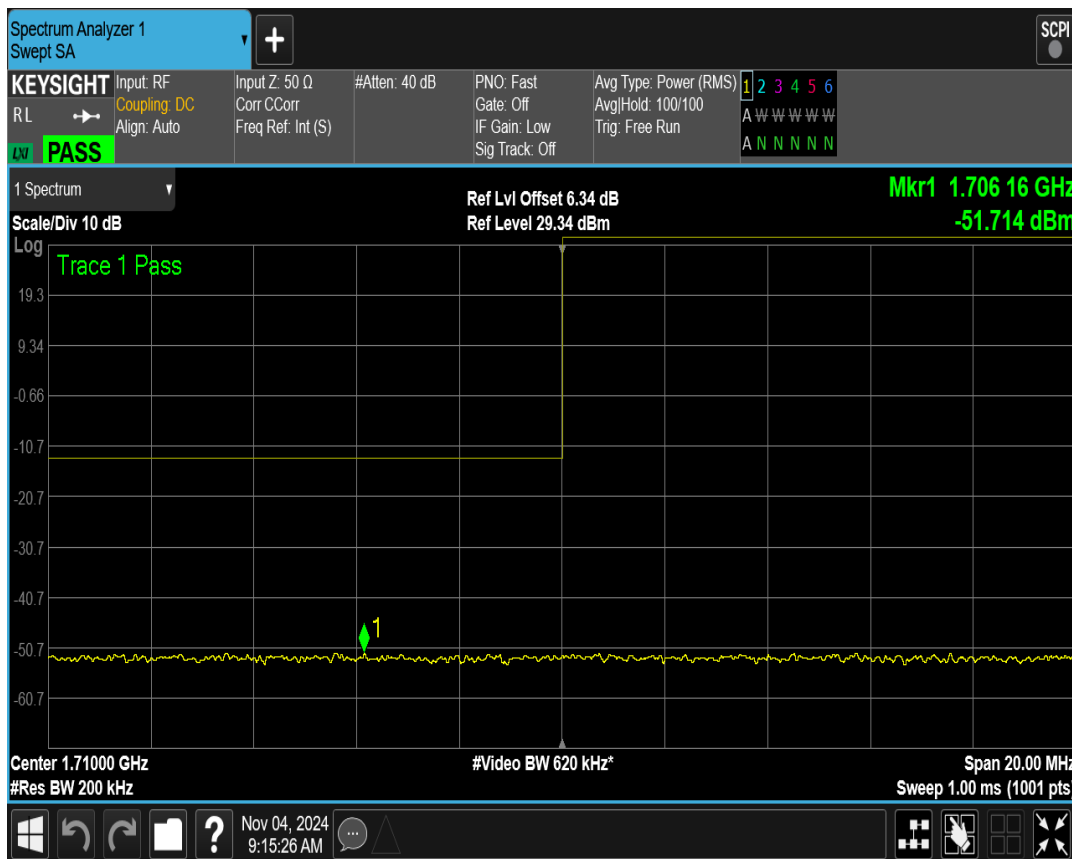
Ready

Current Log 2024-11-05 09:45:12

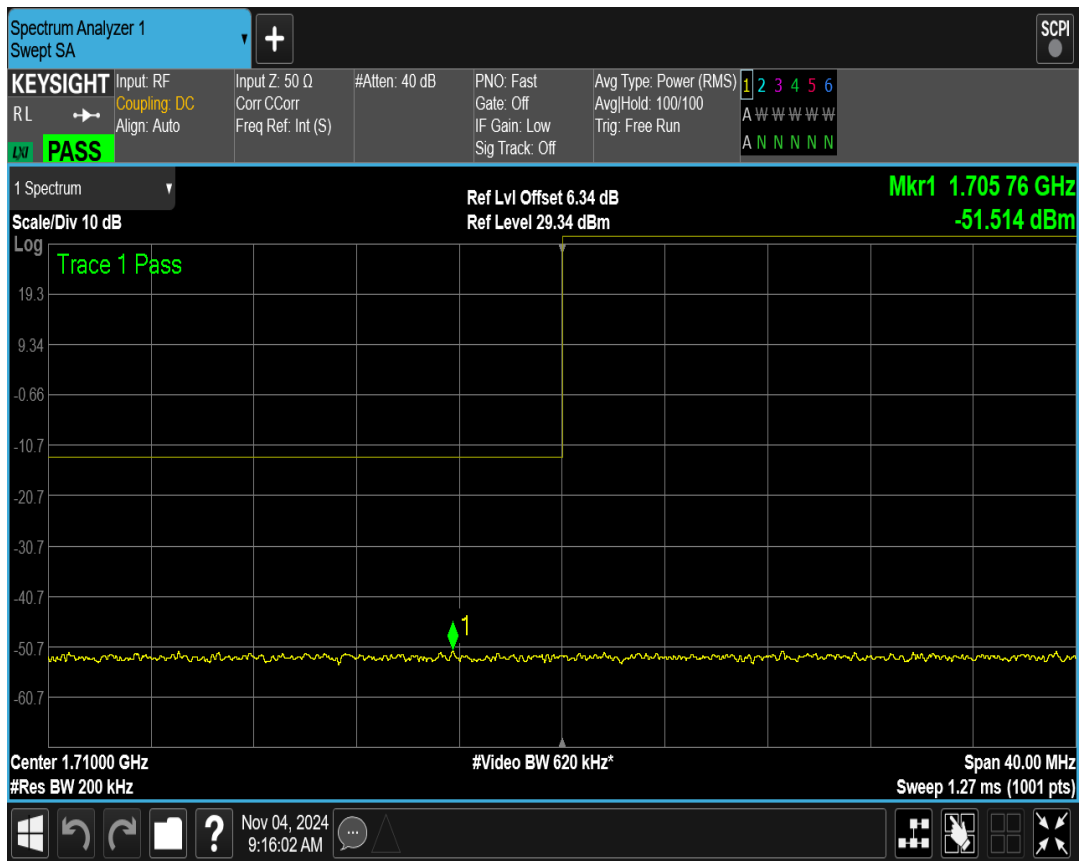
### 5 Band edge for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n66	15	10	343000	24@0	CP_QPSK	1709.86	-54.62	-13	PASS
n66	15	10	343000	1@0	CP_QPSK	1706.16	-51.71	-13	PASS
n66	15	10	343000	1@23	CP_QPSK	1702.86	-51.43	-13	PASS
n66	15	10	355000	24@0	CP_QPSK	1788.50	-54.47	-13	PASS
n66	15	10	355000	1@0	CP_QPSK	1789.10	-51.55	-13	PASS
n66	15	10	355000	1@23	CP_QPSK	1784.98	-51.44	-13	PASS
n66	15	20	344000	51@0	CP_QPSK	1709.44	-51.81	-13	PASS
n66	15	20	344000	1@0	CP_QPSK	1694.92	-51.60	-13	PASS
n66	15	20	344000	1@50	CP_QPSK	1705.76	-51.51	-13	PASS
n66	15	20	354000	51@0	CP_QPSK	1798.76	-51.63	-13	PASS
n66	15	20	354000	1@0	CP_QPSK	1792.04	-51.50	-13	PASS
n66	15	20	354000	1@50	CP_QPSK	1787.44	-51.60	-13	PASS
n66	15	40	346000	106@0	CP_QPSK	1687.20	-48.27	-13	PASS
n66	15	40	346000	1@0	CP_QPSK	1680.40	-51.66	-13	PASS
n66	15	40	346000	1@105	CP_QPSK	1687.92	-51.73	-13	PASS
n66	15	40	352000	106@0	CP_QPSK	1792.56	-48.36	-13	PASS
n66	15	40	352000	1@0	CP_QPSK	1807.20	-51.54	-13	PASS
n66	15	40	352000	1@105	CP_QPSK	1794.08	-51.52	-13	PASS

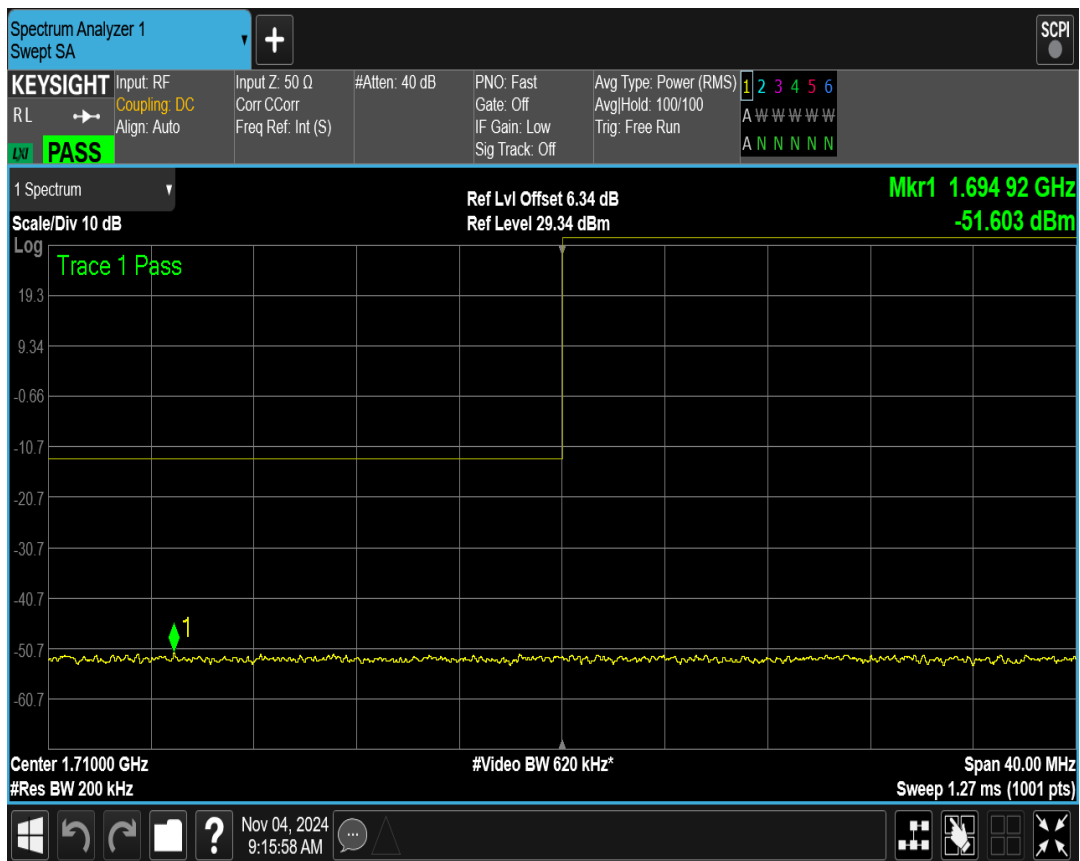
n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=343000 RB=1@0



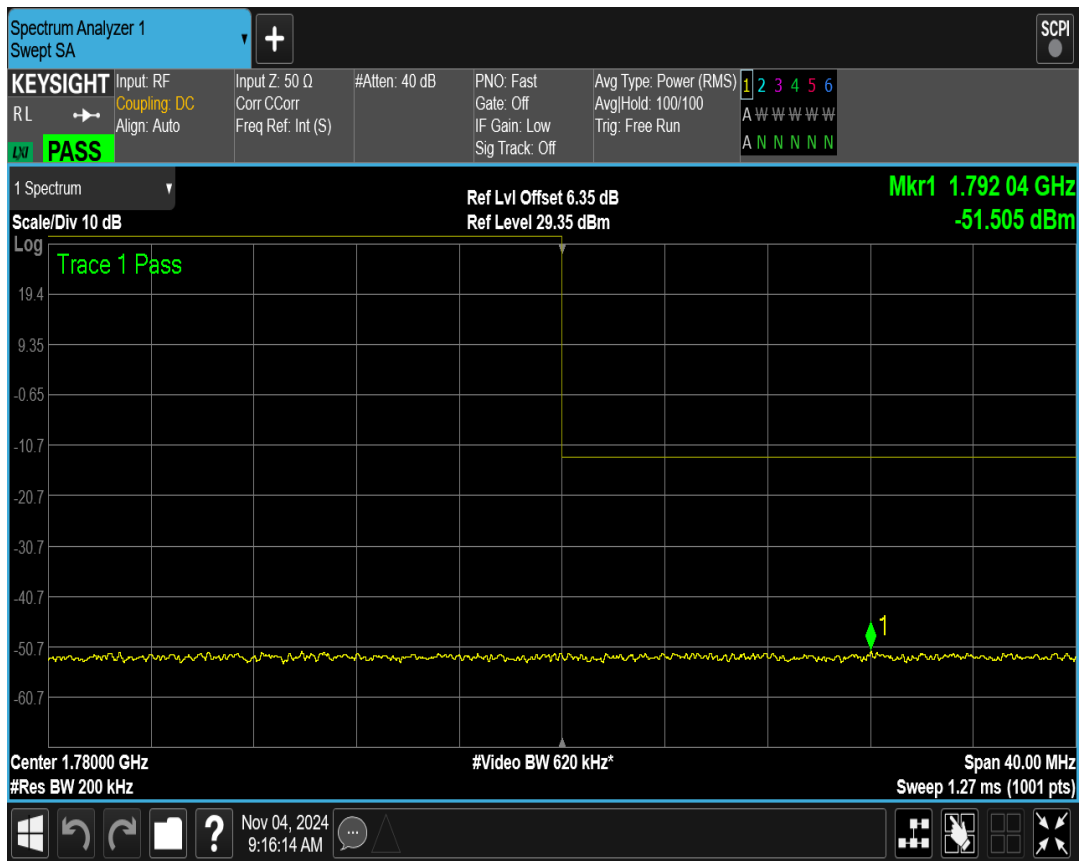
n66 SCS=30kHz CP\_QPSK BW=20MHz Channel=344000 RB=1 @50



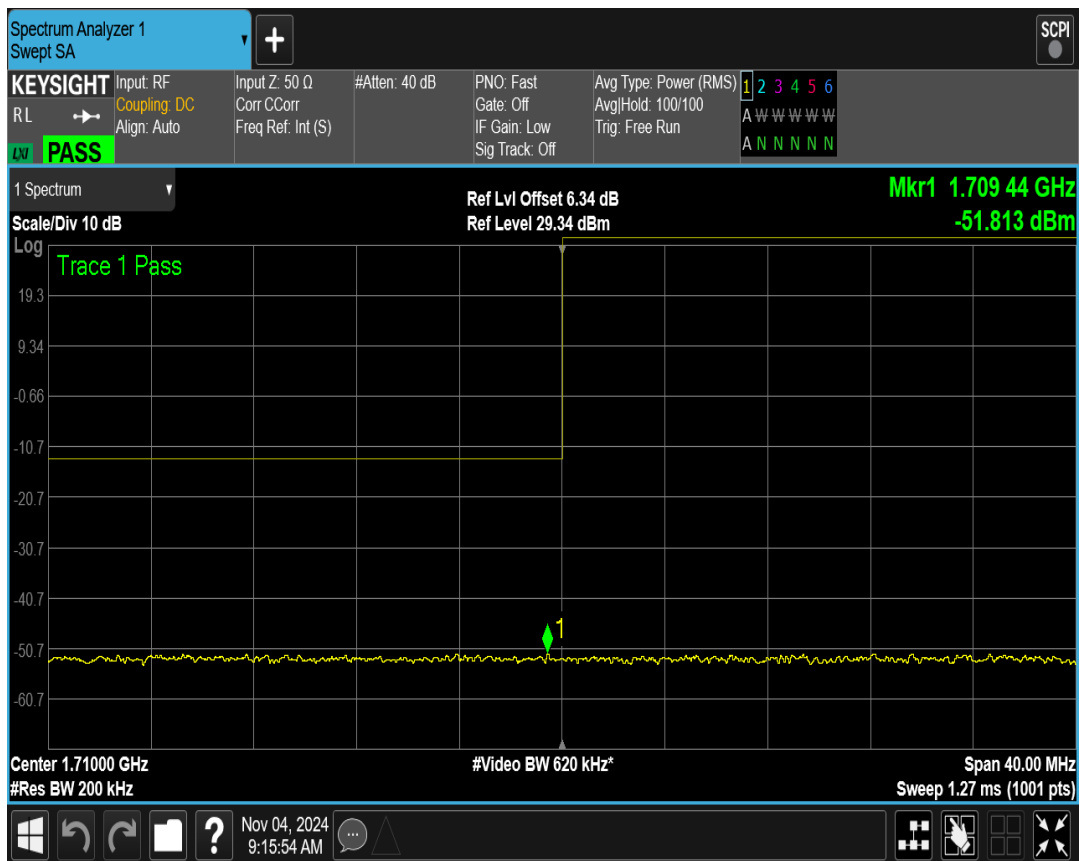
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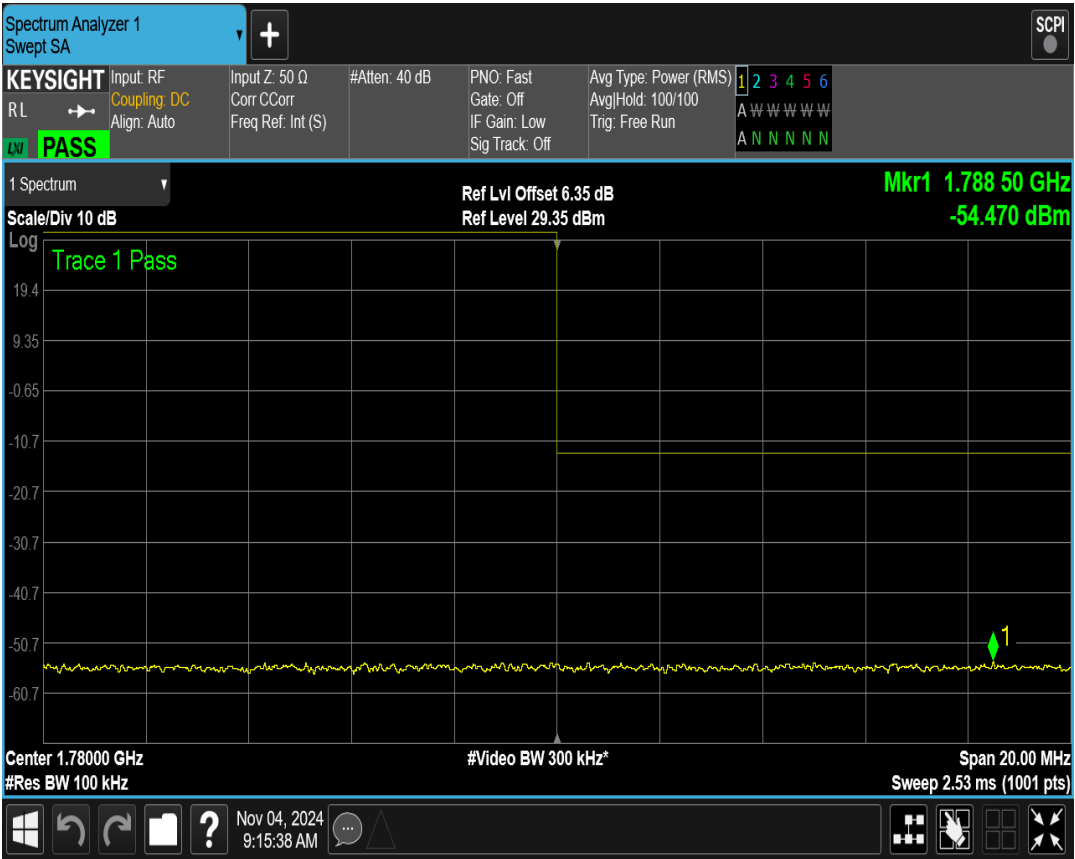
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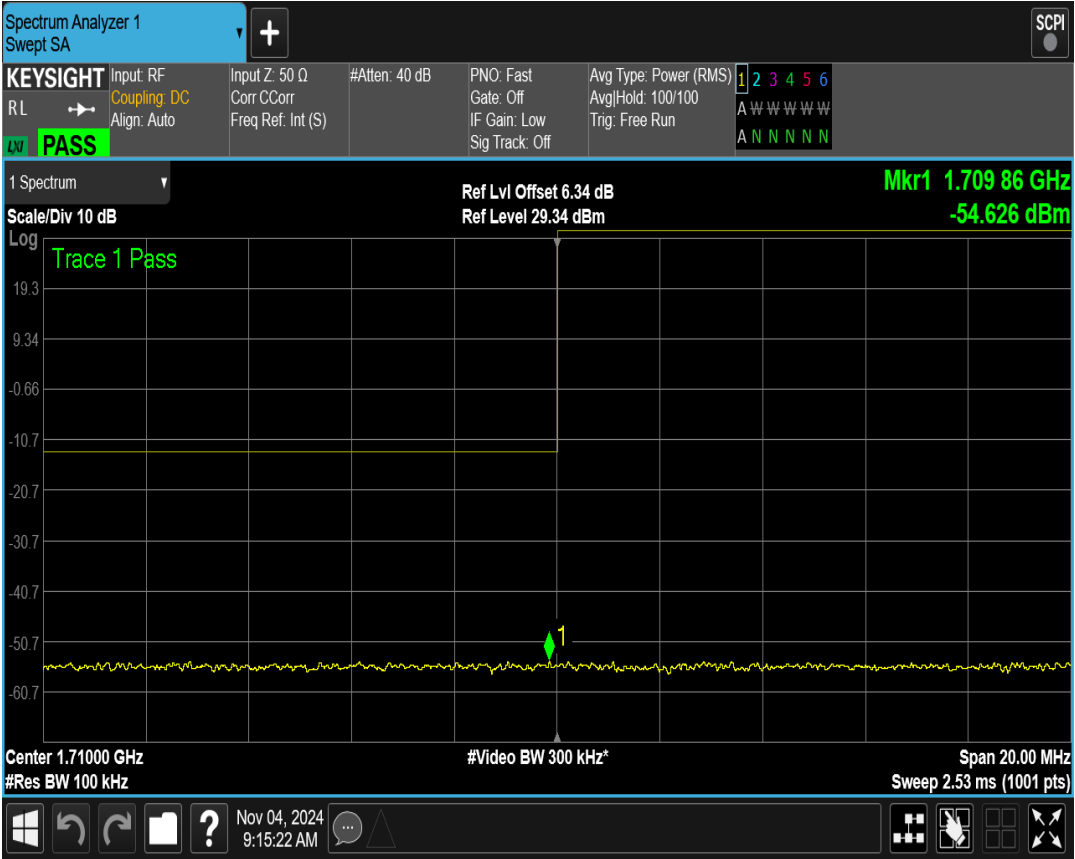
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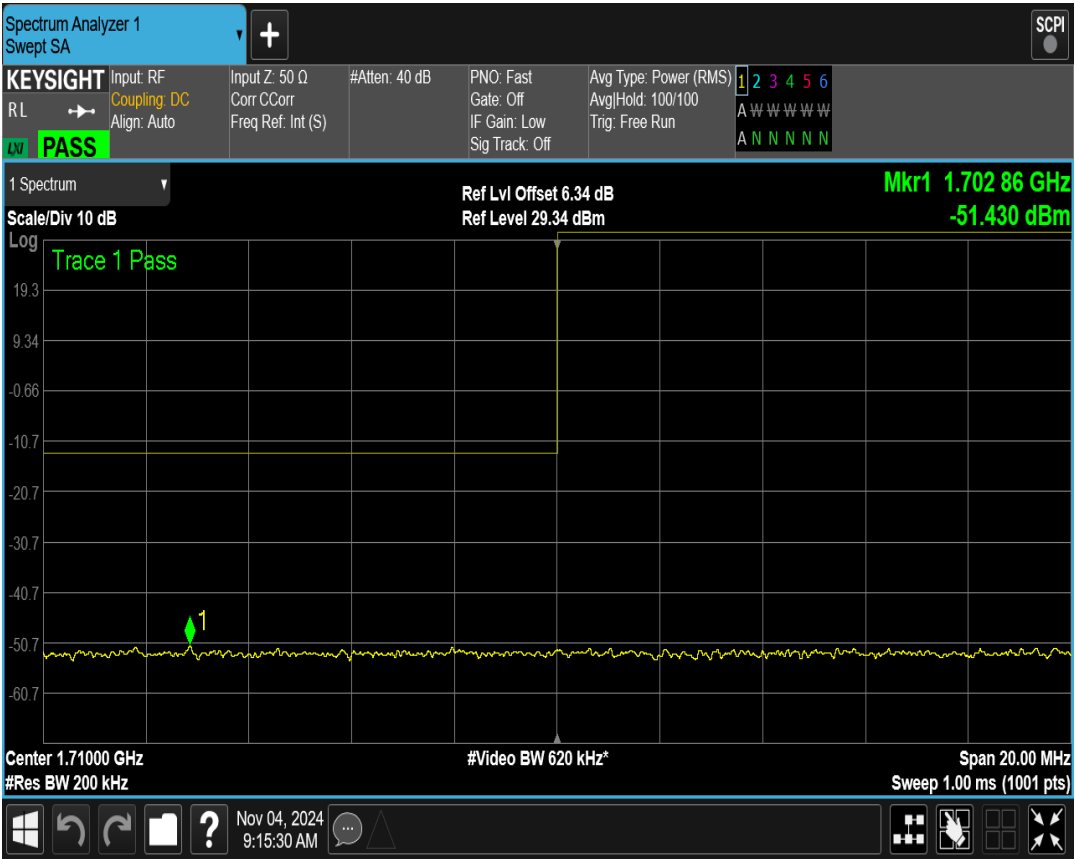
n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=355000 RB=24@0



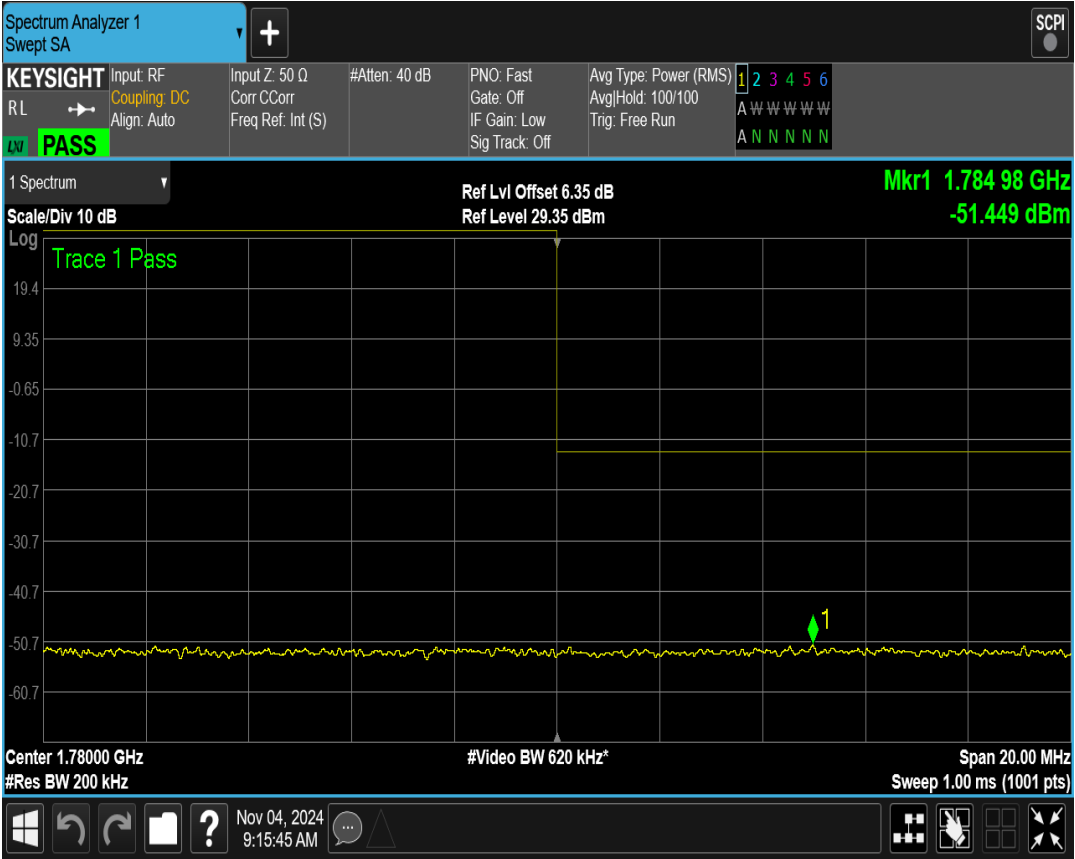
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n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=343000 RB=1 @23

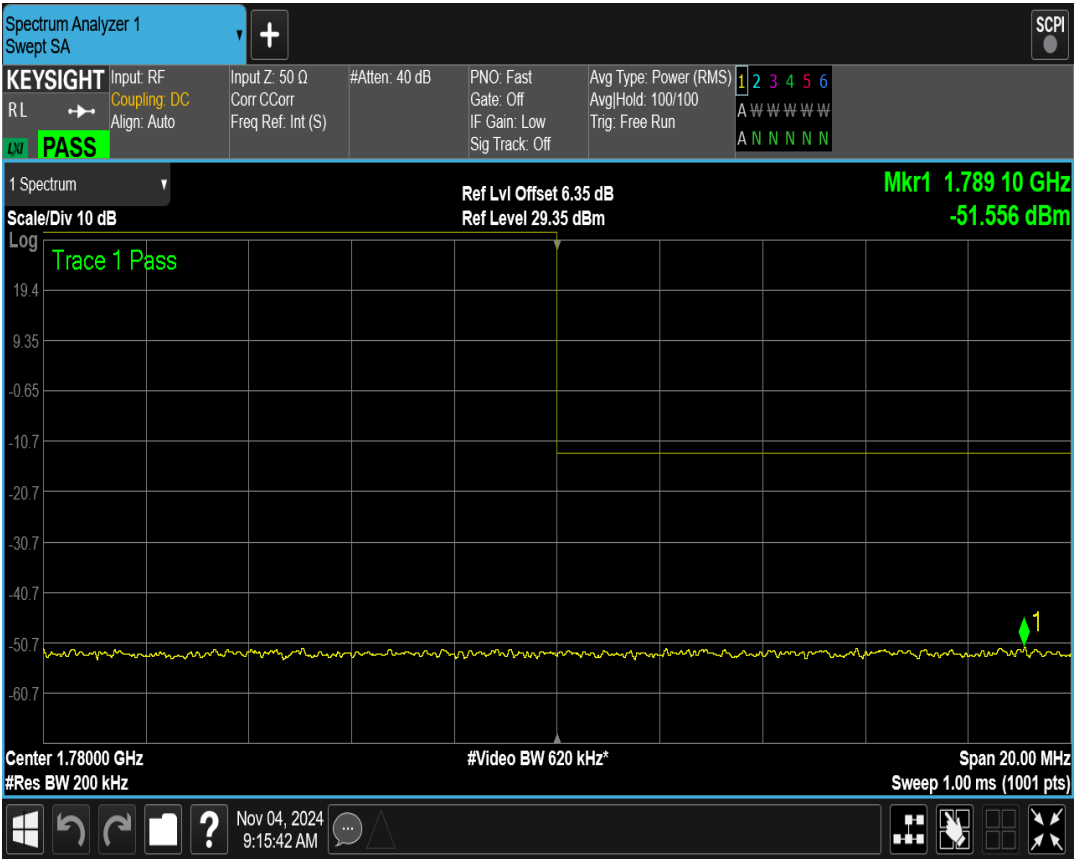


n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=355000 RB=1 @23

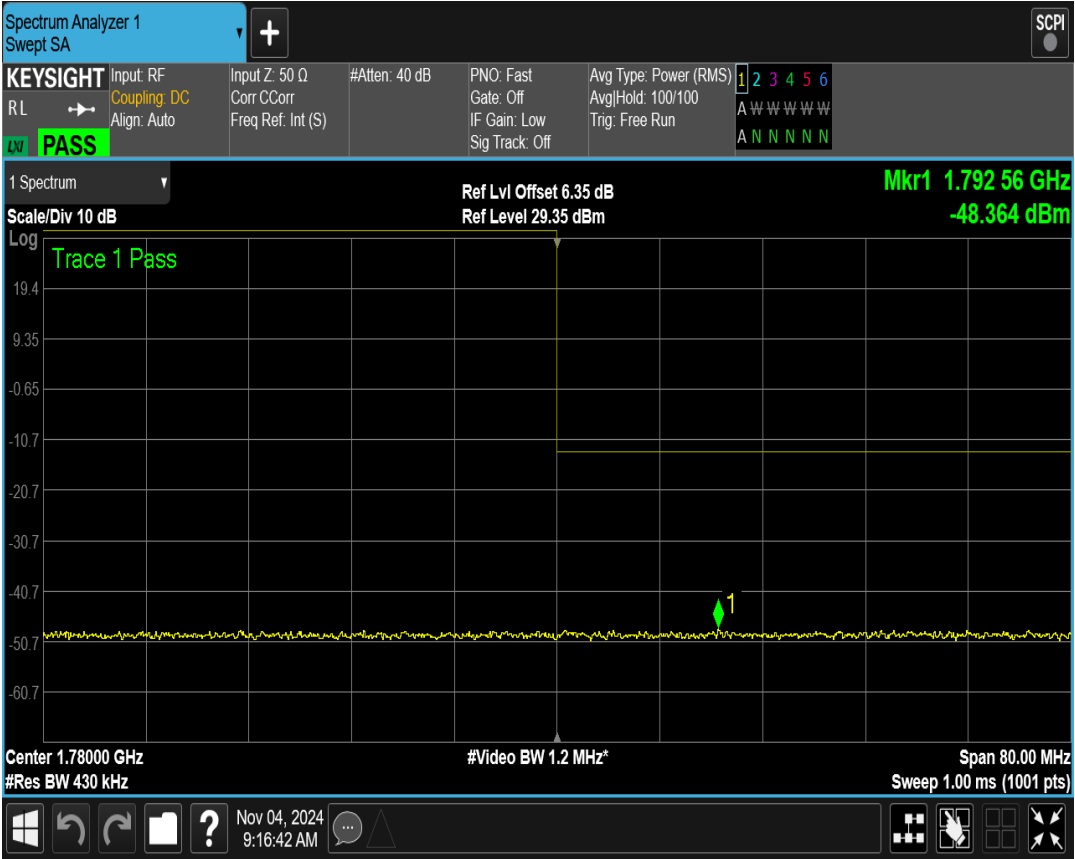




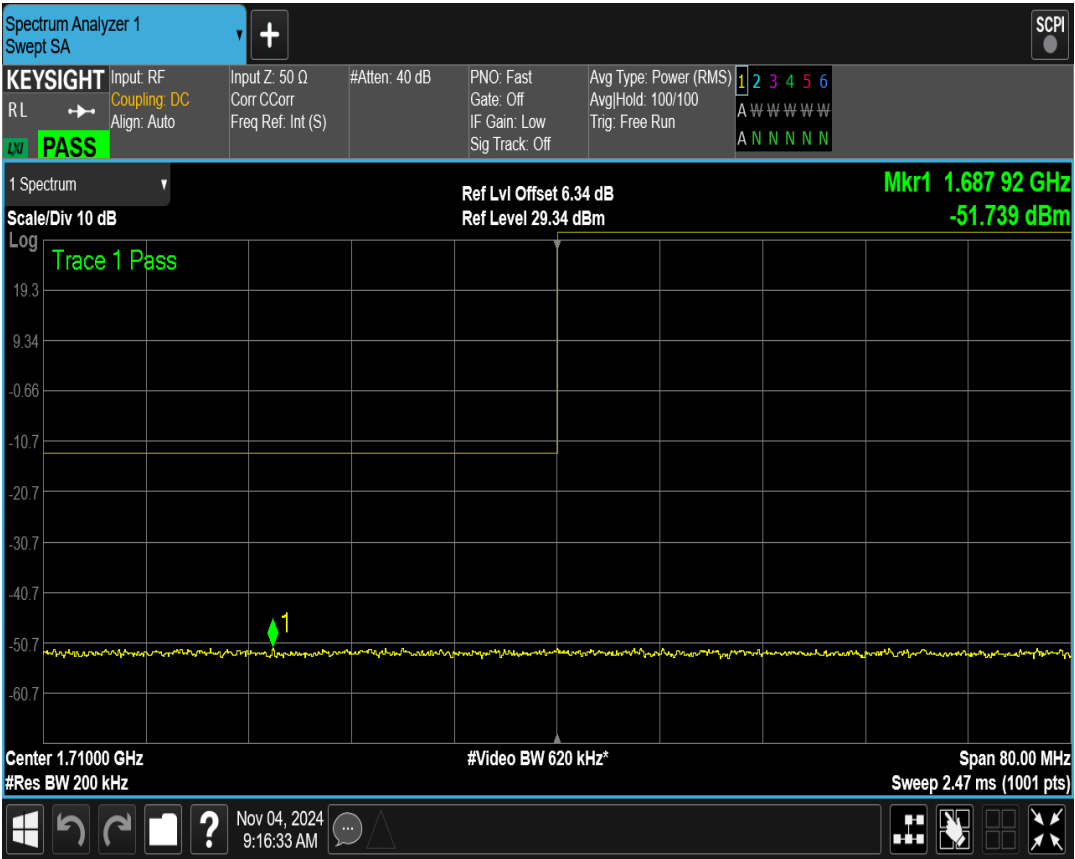
n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=355000 RB=1@0



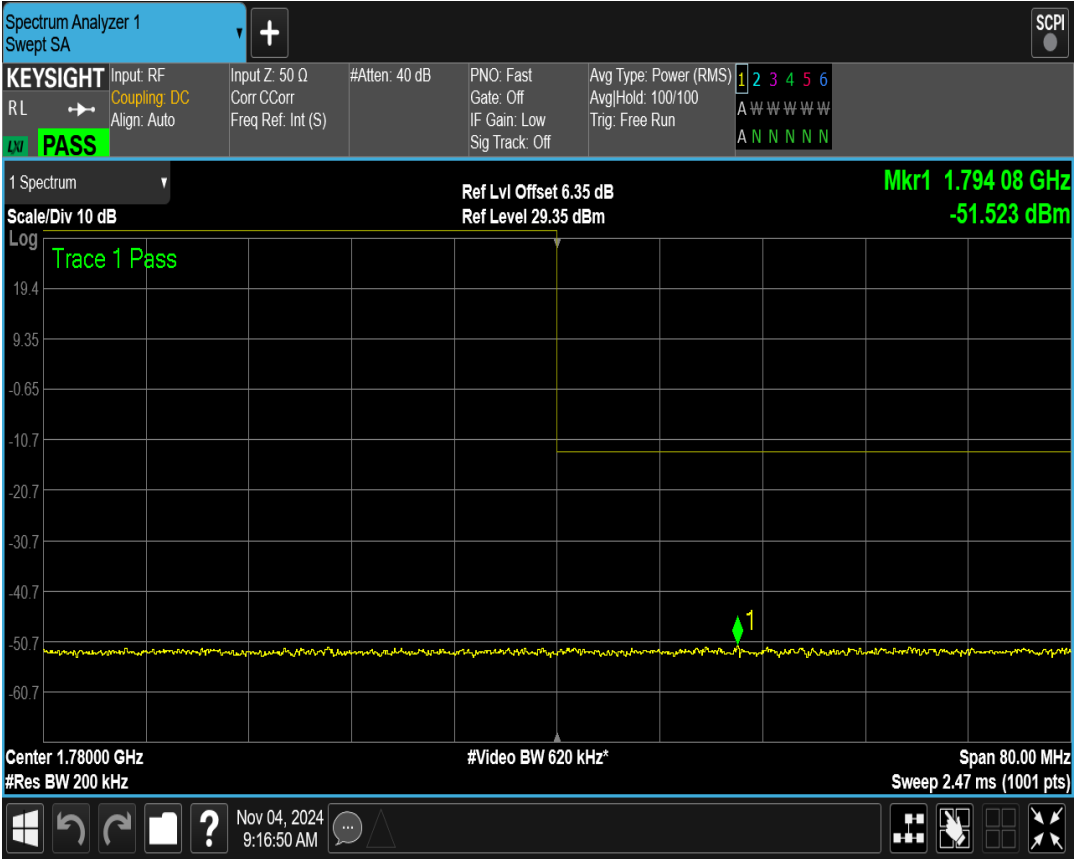
n66 SCS=30kHz CP\_QPSK BW=40MHz Channel=352000 RB=106@0



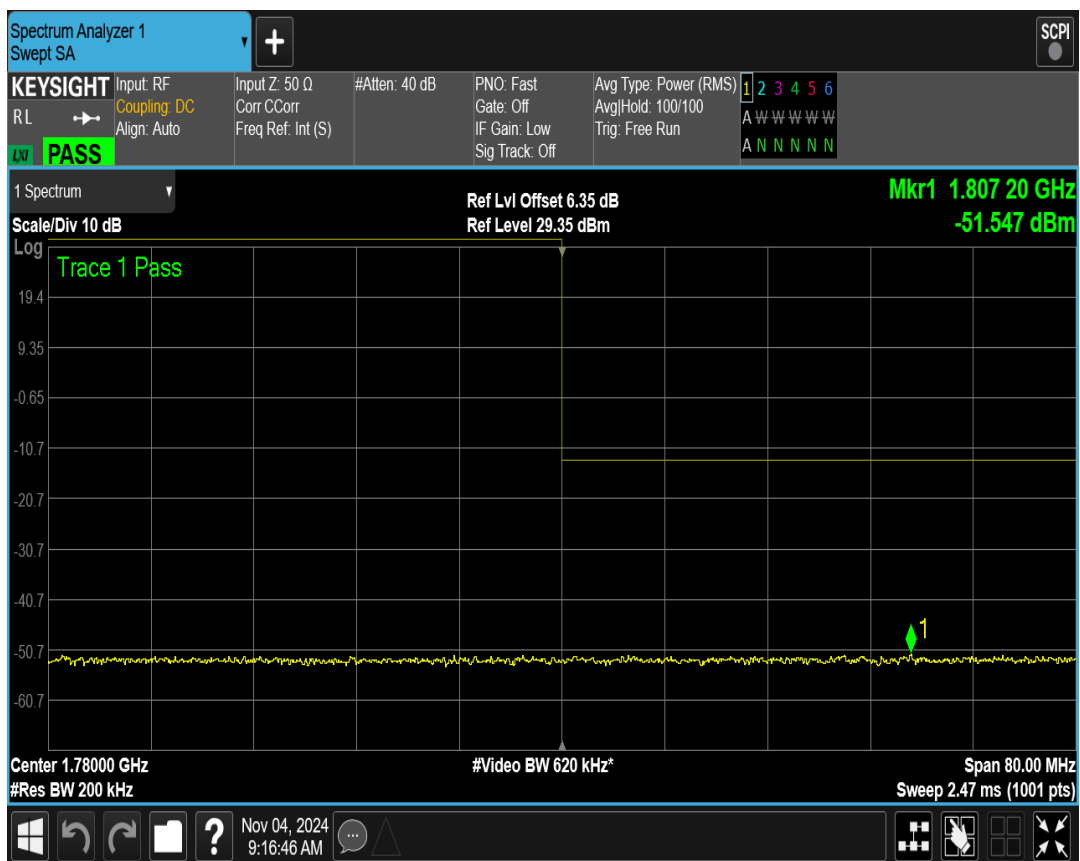
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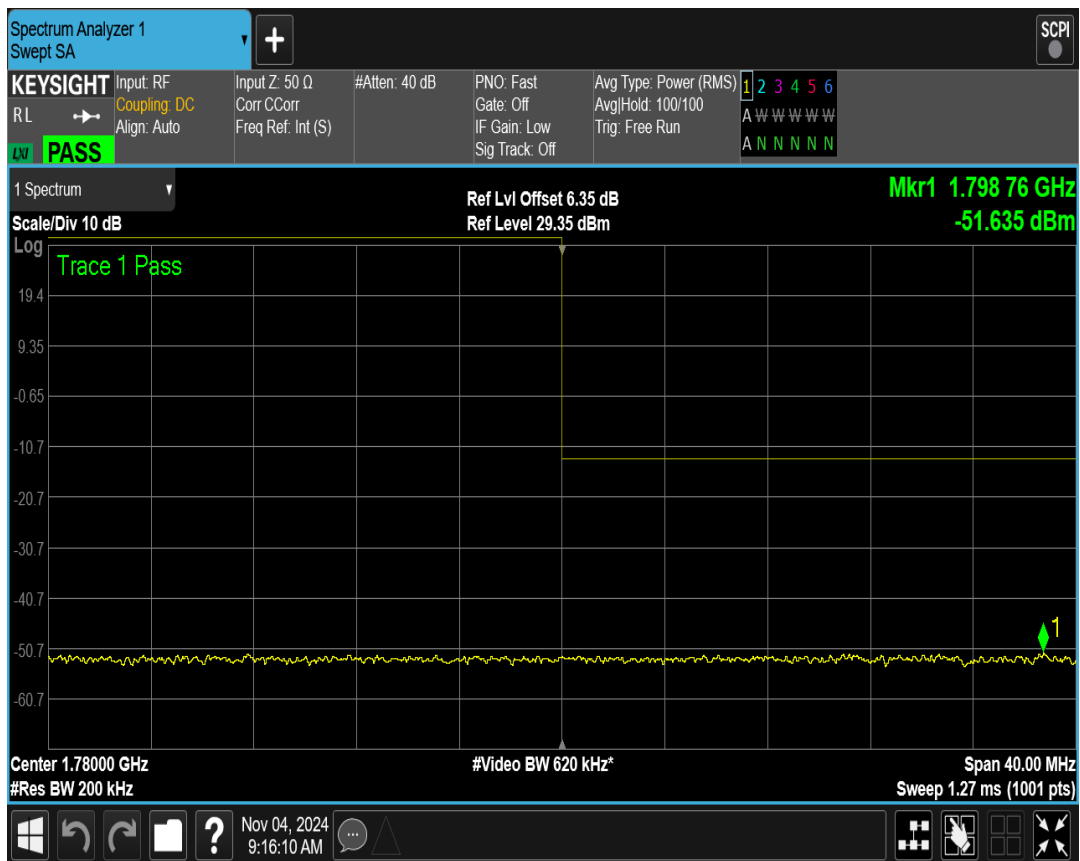
n66 SCS=30kHz CP\_QPSK BW=40MHz Channel=352000 RB=1@105



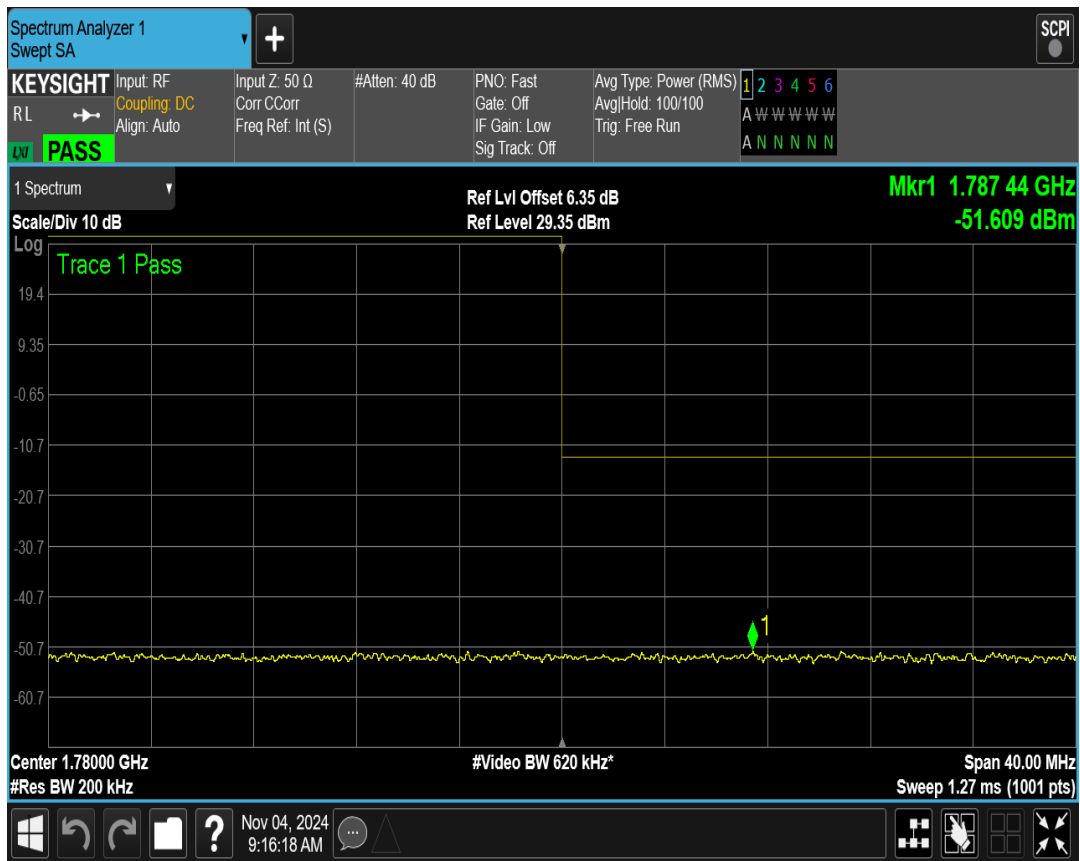
n66 SCS=30kHz CP\_QPSK BW=40MHz Channel=352000 RB=1@0



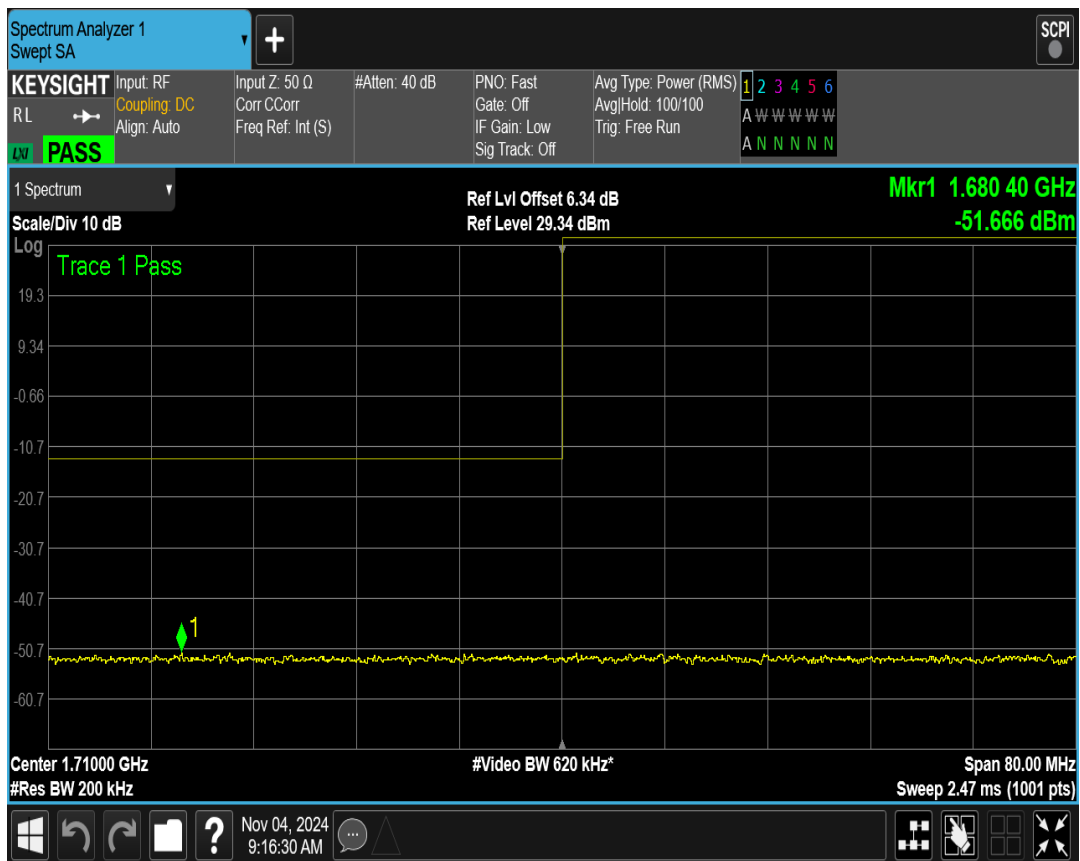
n66 SCS=30kHz CP\_QPSK BW=20MHz Channel=354000 RB=51@0



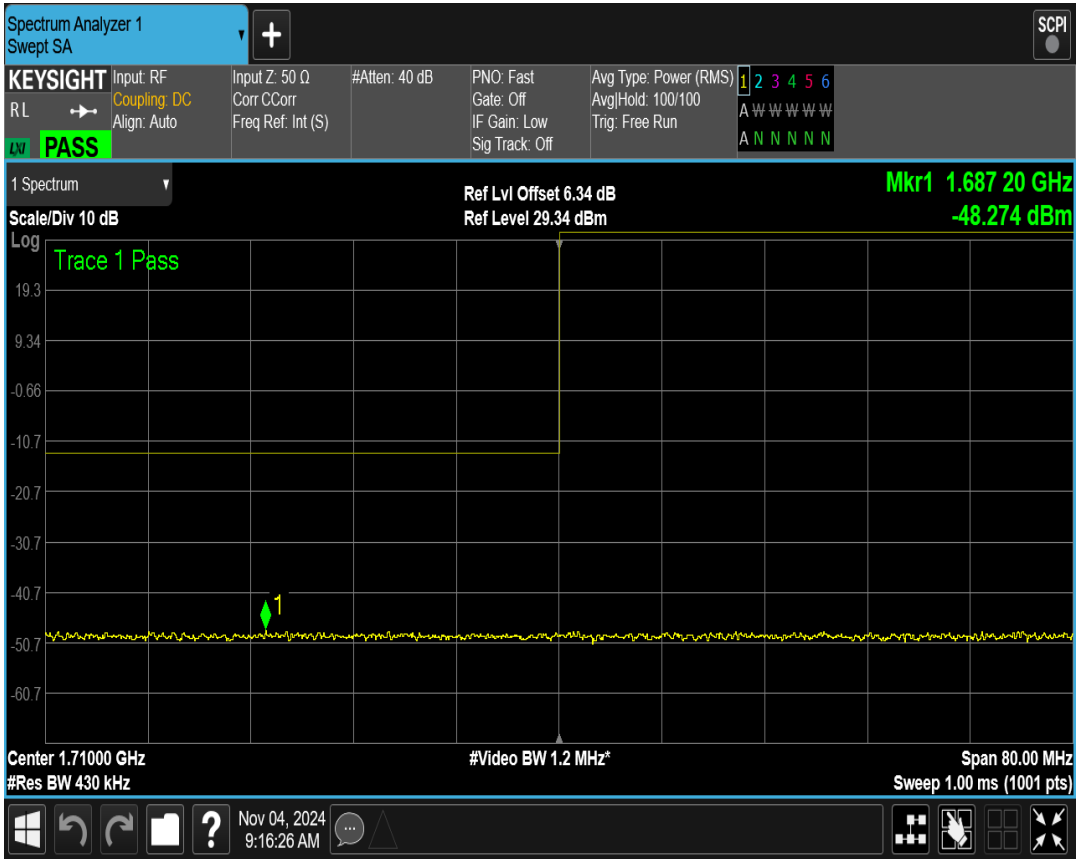
n66 SCS=30kHz CP\_QPSK BW=20MHz Channel=354000 RB=1 @50



n66 SCS=30kHz CP\_QPSK BW=40MHz Channel=346000 RB=1 @0



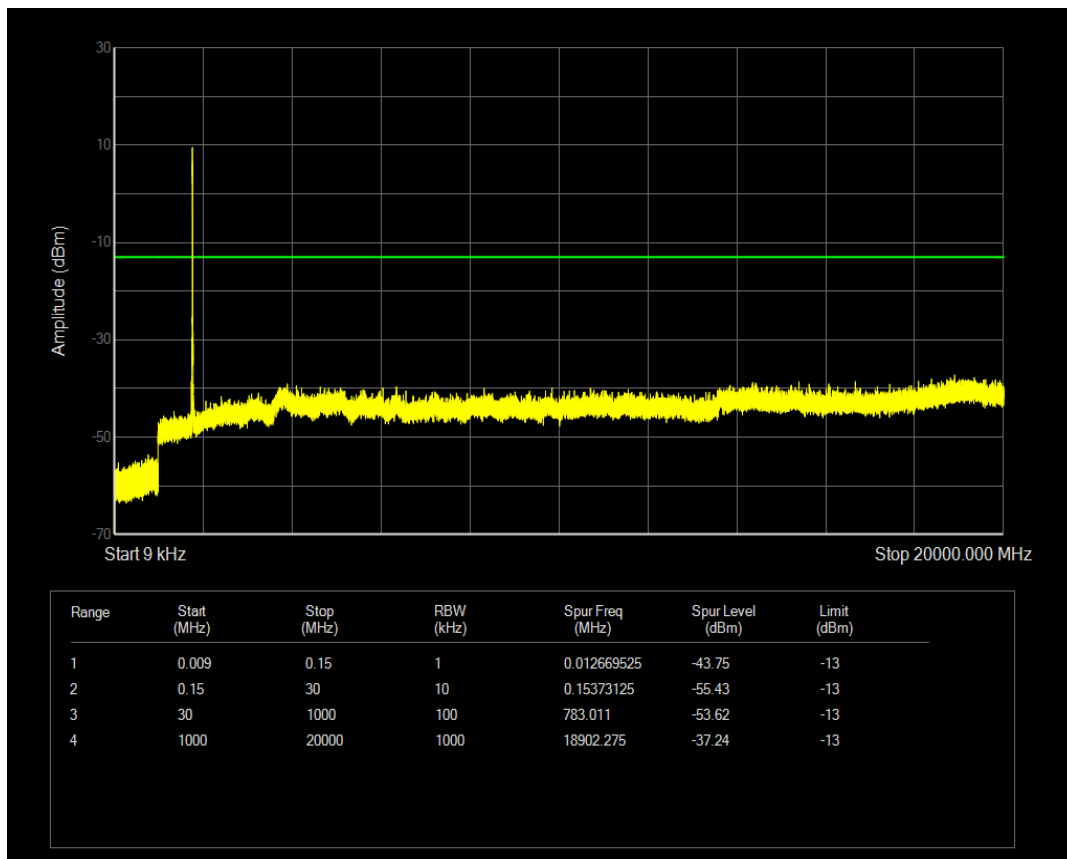
n66 SCS=30kHz CP\_QPSK BW=40MHz Channel=346000 RB=106@0



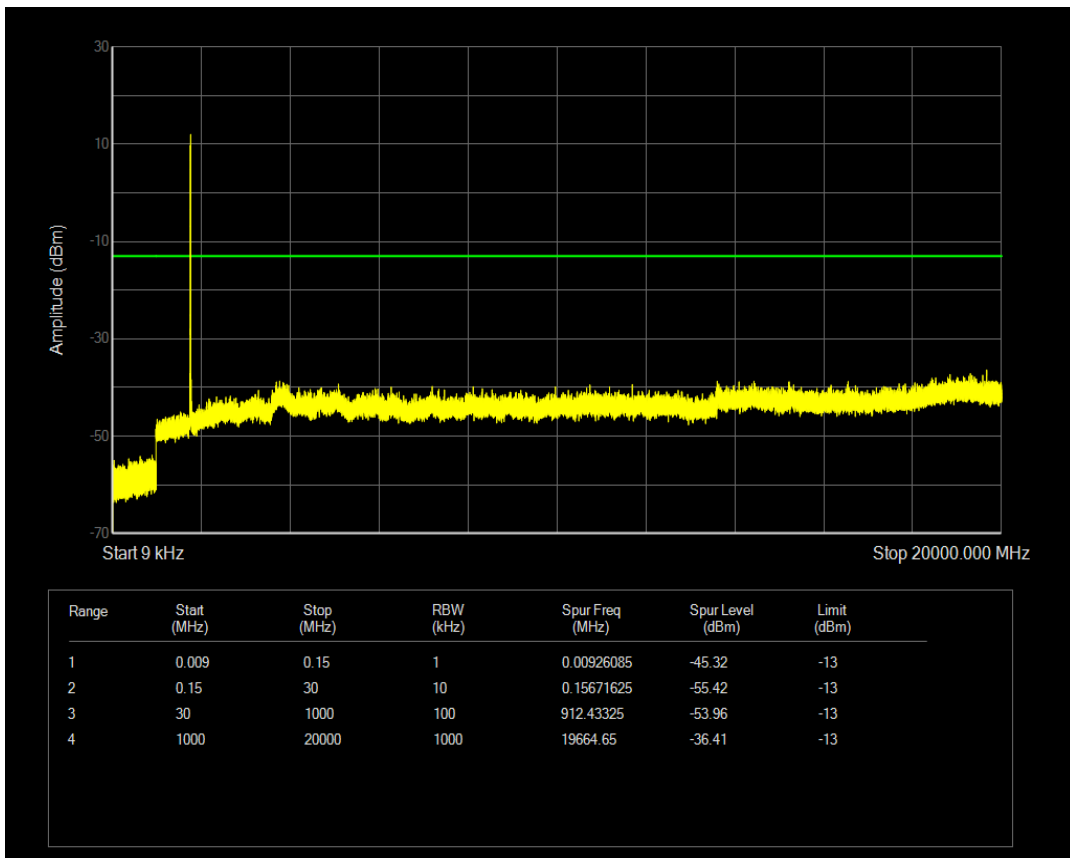
## 6 Out-of-band emissions for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n66	15	10	343000	24@0	CP_QPSK	19262.33	-37.37	-13	PASS
n66	15	10	343000	1@0	CP_QPSK	19057.60	-36.54	-13	PASS
n66	15	10	343000	1@23	CP_QPSK	18787.80	-37.29	-13	PASS
n66	15	10	355000	24@0	CP_QPSK	18902.28	-37.24	-13	PASS
n66	15	10	355000	1@0	CP_QPSK	19286.08	-36.39	-13	PASS
n66	15	10	355000	1@23	CP_QPSK	19664.65	-36.41	-13	PASS
n66	15	20	344000	51@0	CP_QPSK	19218.63	-37.49	-13	PASS
n66	15	20	344000	1@0	CP_QPSK	19346.40	-37.45	-13	PASS
n66	15	20	344000	1@50	CP_QPSK	19210.08	-37.19	-13	PASS
n66	15	20	354000	51@0	CP_QPSK	3793.95	-37.46	-13	PASS
n66	15	20	354000	1@0	CP_QPSK	19175.88	-37.25	-13	PASS
n66	15	20	354000	1@50	CP_QPSK	18830.55	-37.24	-13	PASS
n66	15	40	346000	106@0	CP_QPSK	18887.08	-37.10	-13	PASS
n66	15	40	346000	1@0	CP_QPSK	19445.68	-37.18	-13	PASS
n66	15	40	346000	1@105	CP_QPSK	19060.45	-37.21	-13	PASS
n66	15	40	352000	106@0	CP_QPSK	19145.95	-36.01	-13	PASS
n66	15	40	352000	1@0	CP_QPSK	18956.90	-37.22	-13	PASS
n66	15	40	352000	1@105	CP_QPSK	19390.10	-37.00	-13	PASS

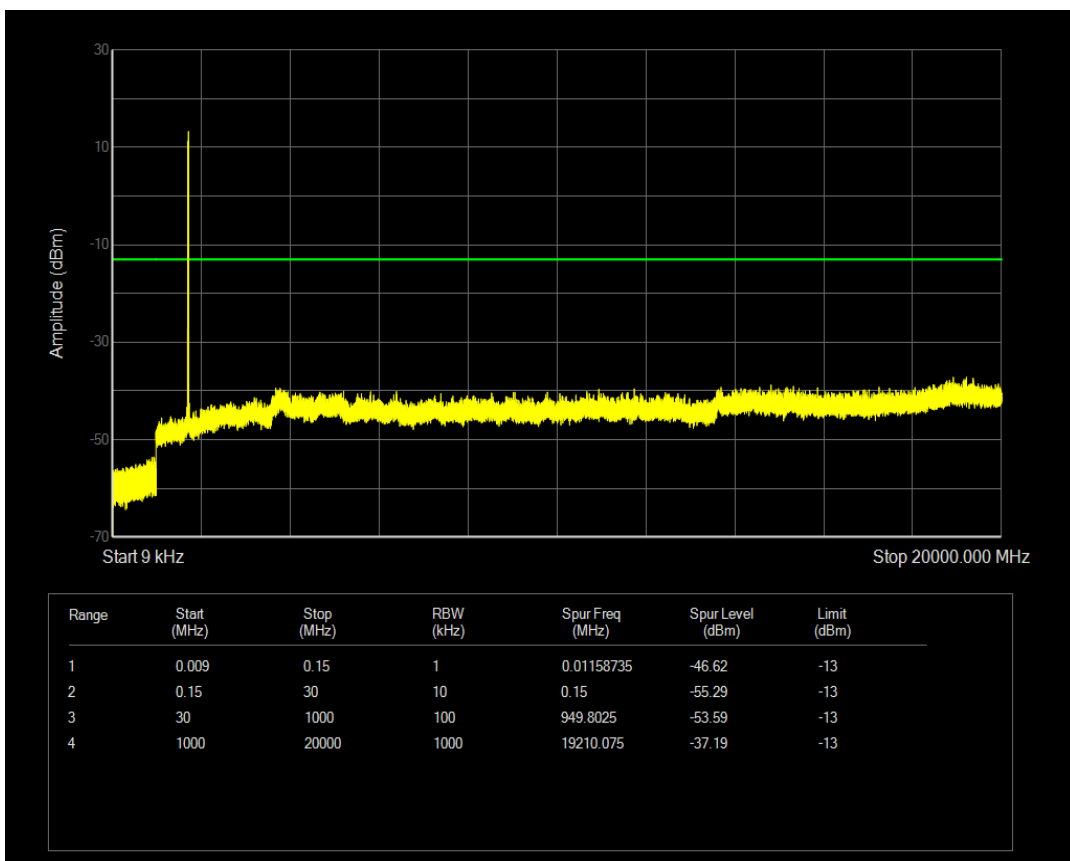
n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=355000 RB=24@0



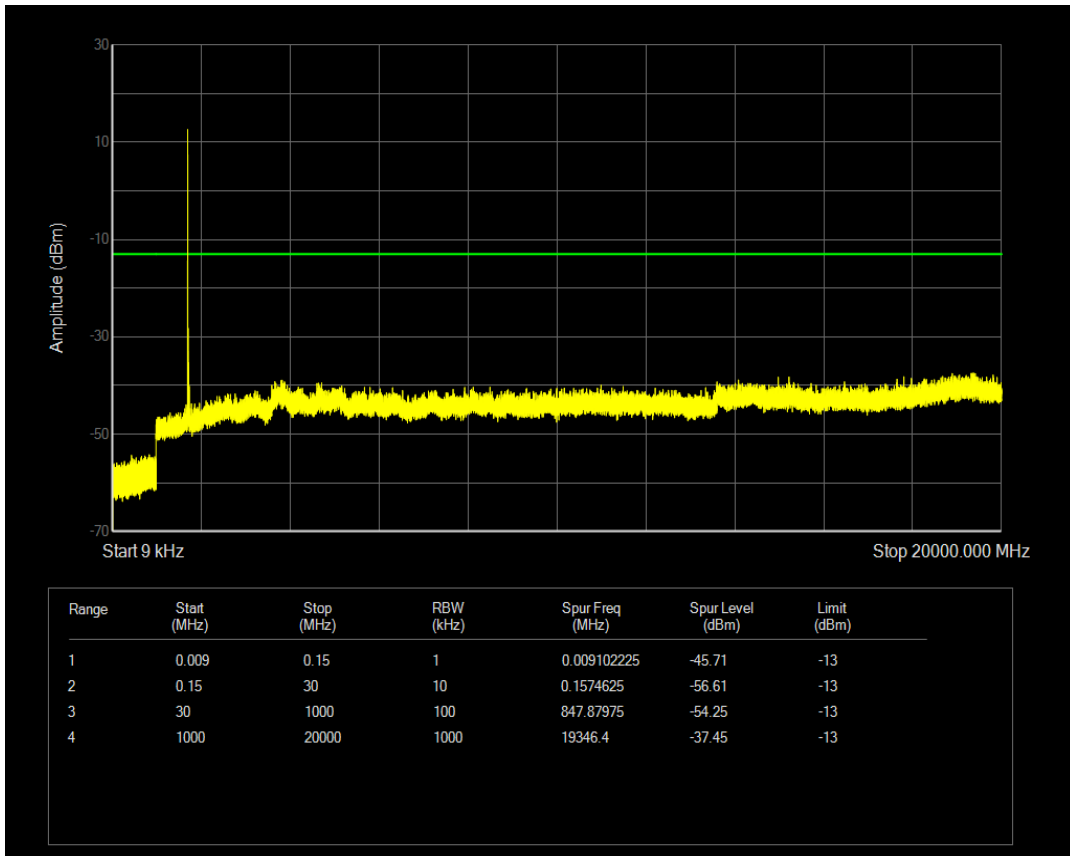
**n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=355000 RB=1 @23**



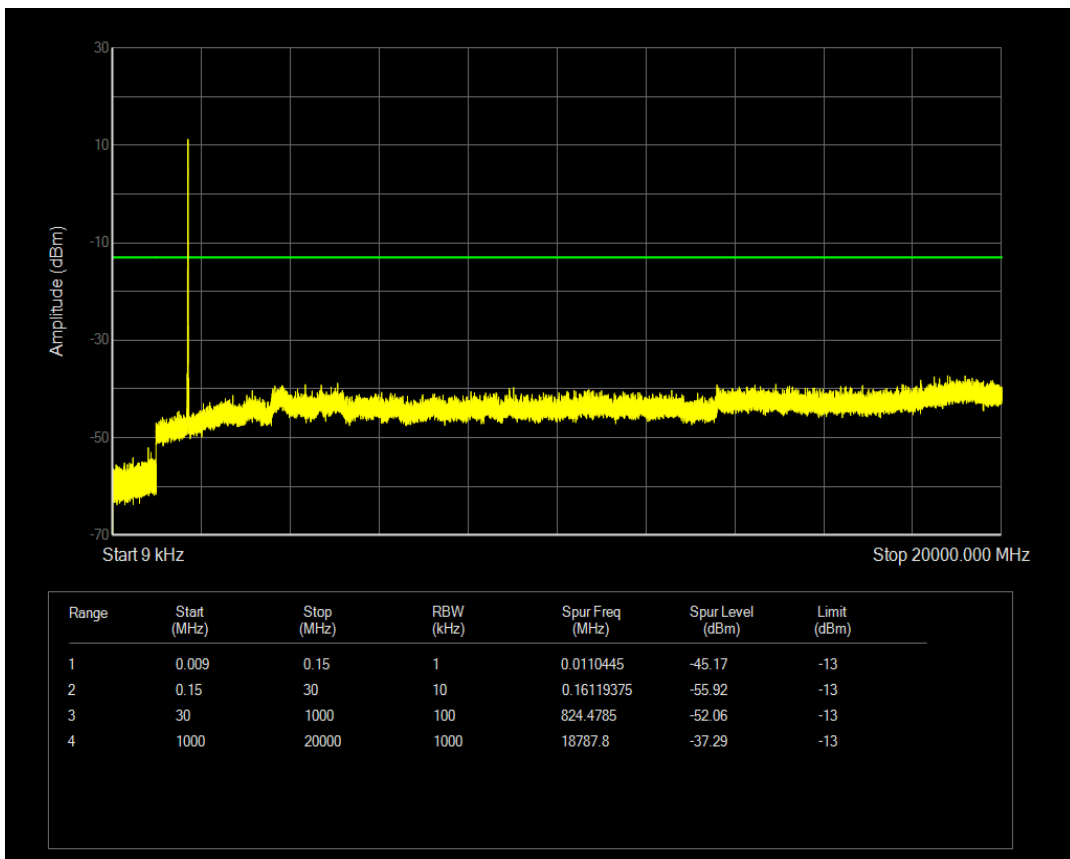
**n66 SCS=30kHz CP\_QPSK BW=20MHz Channel=344000 RB=1 @50**



**n66 SCS=30kHz CP\_QPSK BW=20MHz Channel=344000 RB=1@0**

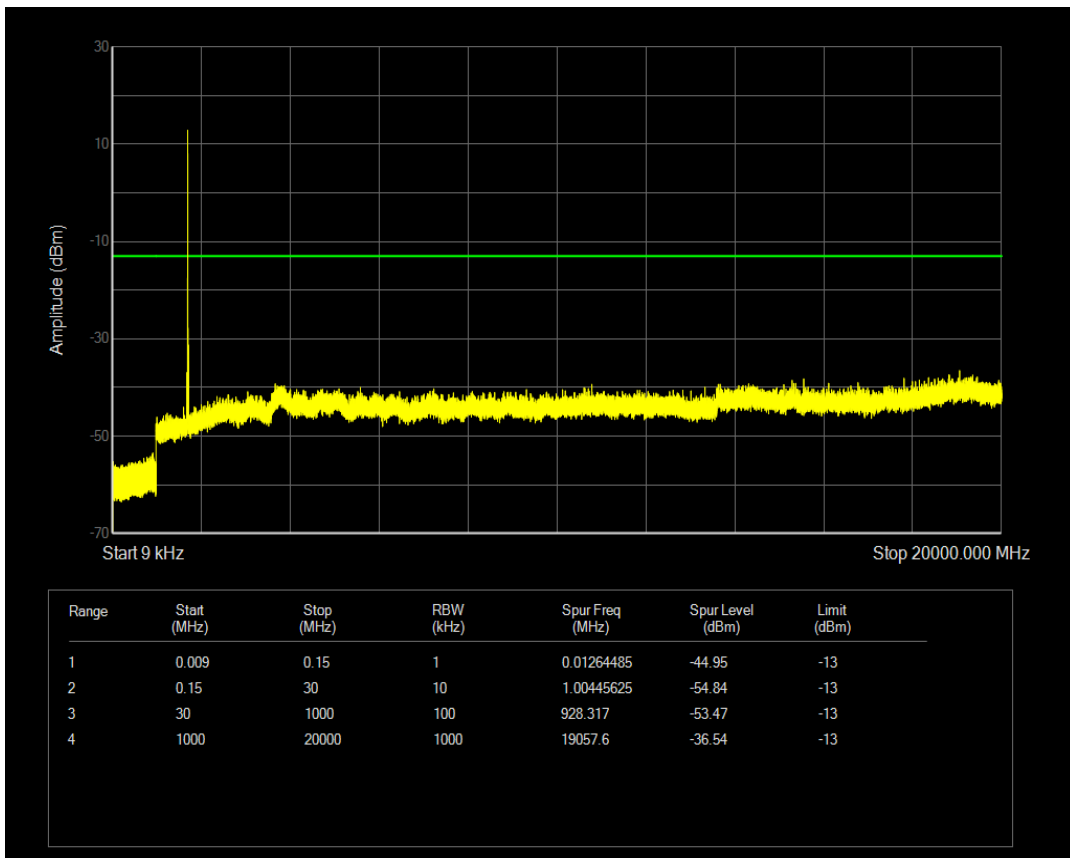


**n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=343000 RB=1@23**

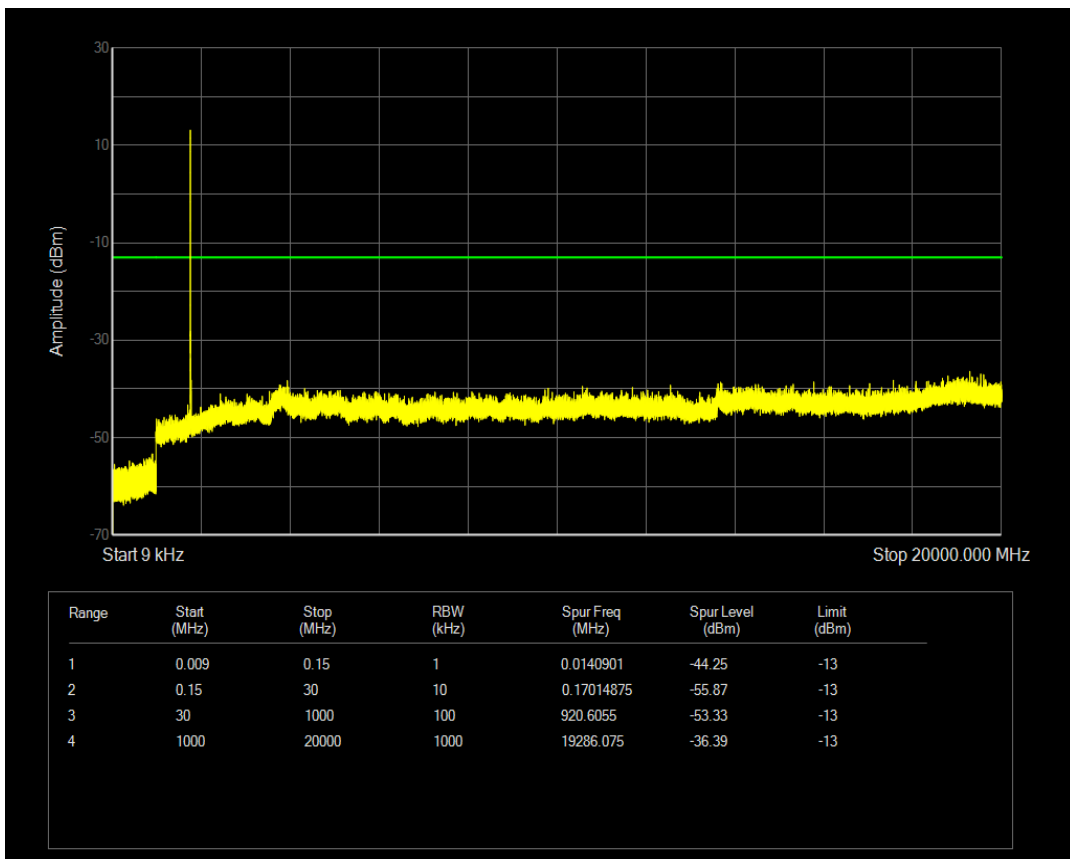




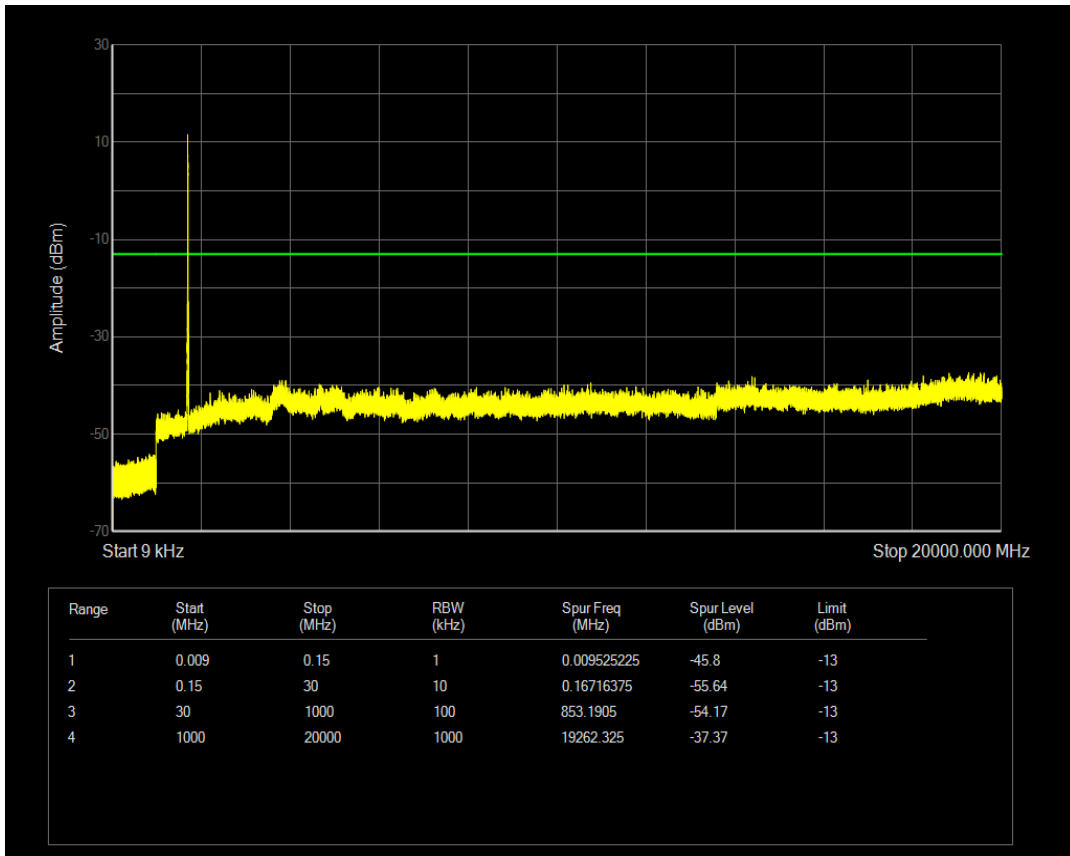
**n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=343000 RB=1@0**



**n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=355000 RB=1@0**



*n66 SCS=30kHz CP\_QPSK BW=10MHz Channel=343000 RB=24@0*



*n66 SCS=30kHz CP\_QPSK BW=40MHz Channel=346000 RB=1@105*

