n66 SCS=15kHz DFT_QAM256 BW=10MHz Channel=349000 RB=50@0

n66 SCS=15kHz DFT_QAM16 BW=5MHz Channel=349000 RB=25@0

n66 SCS=15kHz DFT_QAM256 BW=20MHz Channel=349000 RB=100@0

n66 SCS=15kHz DFT_QAM256 BW=15MHz Channel=349000 RB=75@0

n66 SCS=15kHz DFT_QPSK BW=20MHz Channel=349000 RB=100@0

n66 SCS=15kHz DFT_QPSK BW=15MHz Channel=349000 RB=75@0

n66 SCS=15kHz DFT_QPSK BW=5MHz Channel=349000 RB=25@0

n66 SCS=15kHz DFT_QPSK BW=40MHz Channel=349000 RB=216@0

n66 SCS=15kHz DFT_QAM64 BW=40MHz Channel=349000 RB=216@0

n66 SCS=15kHz DFT_QAM64 BW=20MHz Channel=349000 RB=100@0

n66 SCS=15kHz DFT_QPSK BW=10MHz Channel=349000 RB=50@0

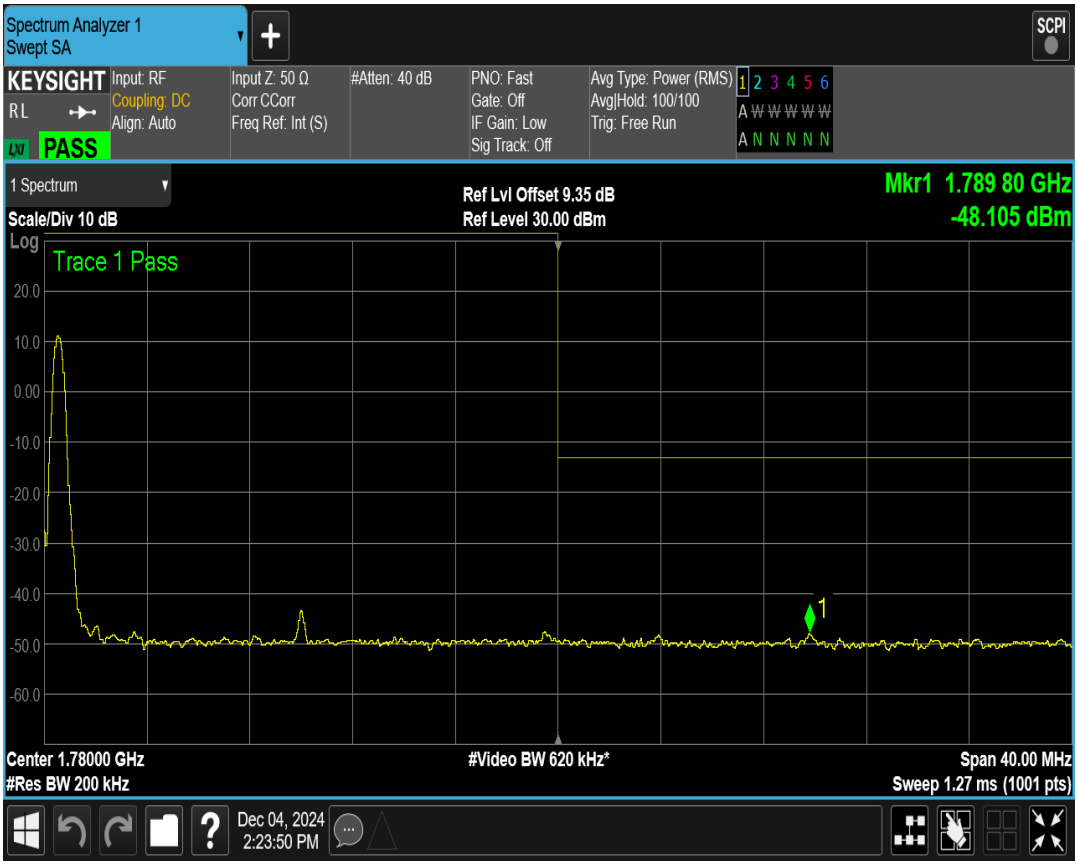
n66 SCS=15kHz DFT_QAM64 BW=5MHz Channel=349000 RB=25@0

KEYSIGHT Keysight RF Application (3.5.134.12281)
LTE1
CONNECTED
Band B2
BW 20 MHz
ARFCN/Freq D: 900 1960.00 MHz U: 18900 1880.00 MHz
Cell Power -30.00 dBm/BW
CLPC All Up Bits
NR1
CONNECTED
Band N66
DL BW 5 MHz
Low Mid High
ARFCN/Freq D: 429000 2145.00 MHz U: 349000 1745.00 MHz
Cell Power -54.37 dBm/BW
CLPC All Up Bits
Test Case
6.2B.1.3 FR1 ENDC UE Maximum Output Power
NSA
LTE1 LTE2
NR1 NR2
Cell Quick Config
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
Occupied Bandwidth
Amplitude (dBm)
7.12 0.00 -7.12 -14.24 -21.35 -28.47 -35.59 -42.71 -49.83 -56.95
1.740 1.741 1.742 1.743 1.744 1.745 1.746 1.747 1.748 1.749
Frequency (GHz)
Pass/Fail Pass
OBW 4.469 MHz
Tx Freq Err 0.00 Hz
X dB BW 4.64 MHz
Total Power 22.36 dBm
Meas Cell NR1
Meas Mode Basic
Meas Select
Meas Channel PUSCH
Average Count 2
Continuous Off
Restart
LTE1 NR1 Common
UL RMC Quick Config DFT-s-OFDM-64QAM
UL RB Allocation Type Contiguous
UL RB Allocation Custom
Start/Count 0 25
UL MCS/Type 18 - 64QAM
MCS Table 64 QAM
UL Waveform DFT-s-OFDM
Pi/2 BPSK OFF
Additional Spectrum Emission ON NS_01
P-Max OFF
p-NR-FR1 20
MAC Padding DL Off UL On
Cell
DL Scheduler
UL Scheduler
Blind Handover
Channel
PRACH
Test Case Params
‹ Advanced
Connect
Disconnect
Aggregate
Load Configuration
Save Configuration
Preset
Local
Ready
Current Log 2024-12-04 15:53:14

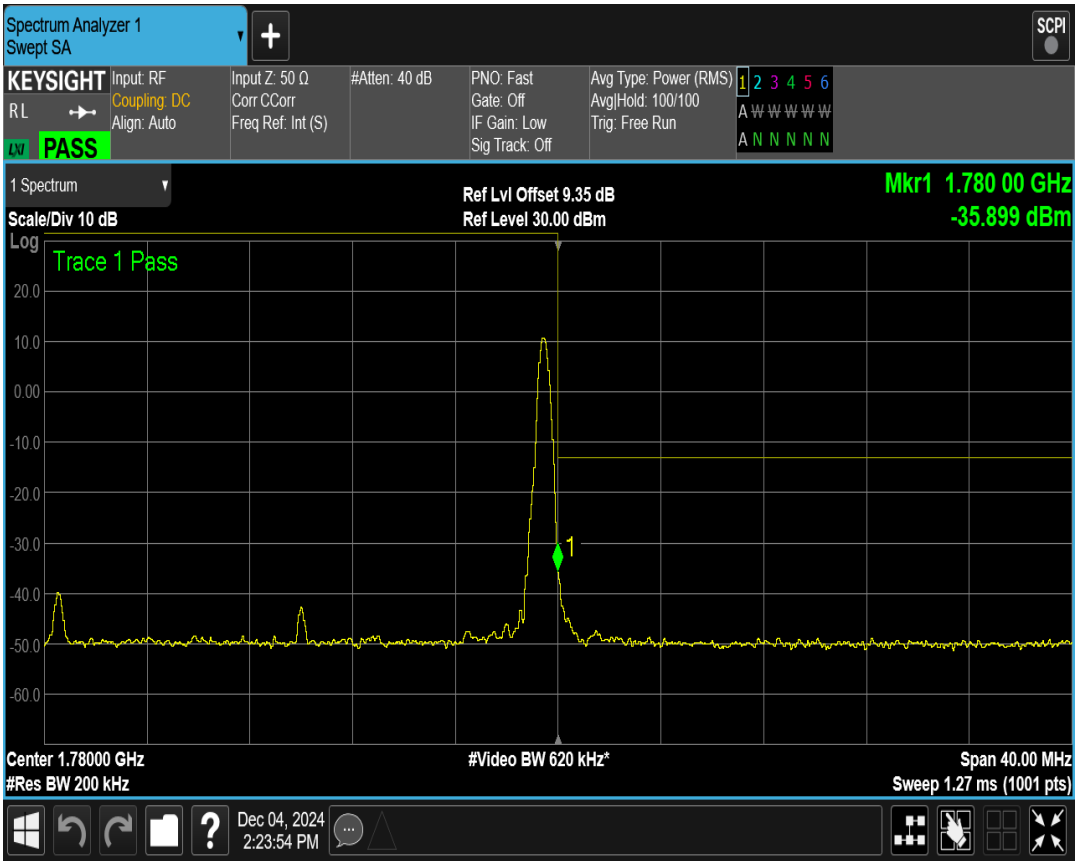
5 Band edge for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n66	15	5	342500	25@0	CP_QPSK	1710.00	-39.96	-13	PASS
n66	15	5	342500	1@0	CP_QPSK	1710.00	-14.73	-13	PASS
n66	15	5	342500	1@24	CP_QPSK	1709.78	-48.34	-13	PASS
n66	15	5	355500	25@0	CP_QPSK	1780.13	-41.79	-13	PASS
n66	15	5	355500	1@0	CP_QPSK	1780.49	-47.91	-13	PASS
n66	15	5	355500	1@24	CP_QPSK	1780.00	-14.65	-13	PASS
n66	15	20	344000	106@0	CP_QPSK	1709.84	-42.34	-13	PASS
n66	15	20	344000	1@0	CP_QPSK	1710.00	-29.42	-13	PASS
n66	15	20	344000	1@105	CP_QPSK	1700.24	-48.38	-13	PASS
n66	15	20	354000	106@0	CP_QPSK	1780.12	-40.87	-13	PASS
n66	15	20	354000	1@0	CP_QPSK	1789.80	-48.10	-13	PASS
n66	15	20	354000	1@105	CP_QPSK	1780.00	-35.89	-13	PASS
n66	15	40	346000	216@0	CP_QPSK	1710.00	-35.96	-13	PASS
n66	15	40	346000	1@0	CP_QPSK	1710.00	-29.48	-13	PASS
n66	15	40	346000	1@215	CP_QPSK	1702.64	-48.73	-13	PASS
n66	15	40	352000	216@0	CP_QPSK	1780.00	-33.36	-13	PASS
n66	15	40	352000	1@0	CP_QPSK	1780.80	-48.74	-13	PASS
n66	15	40	352000	1@215	CP_QPSK	1780.00	-26.30	-13	PASS

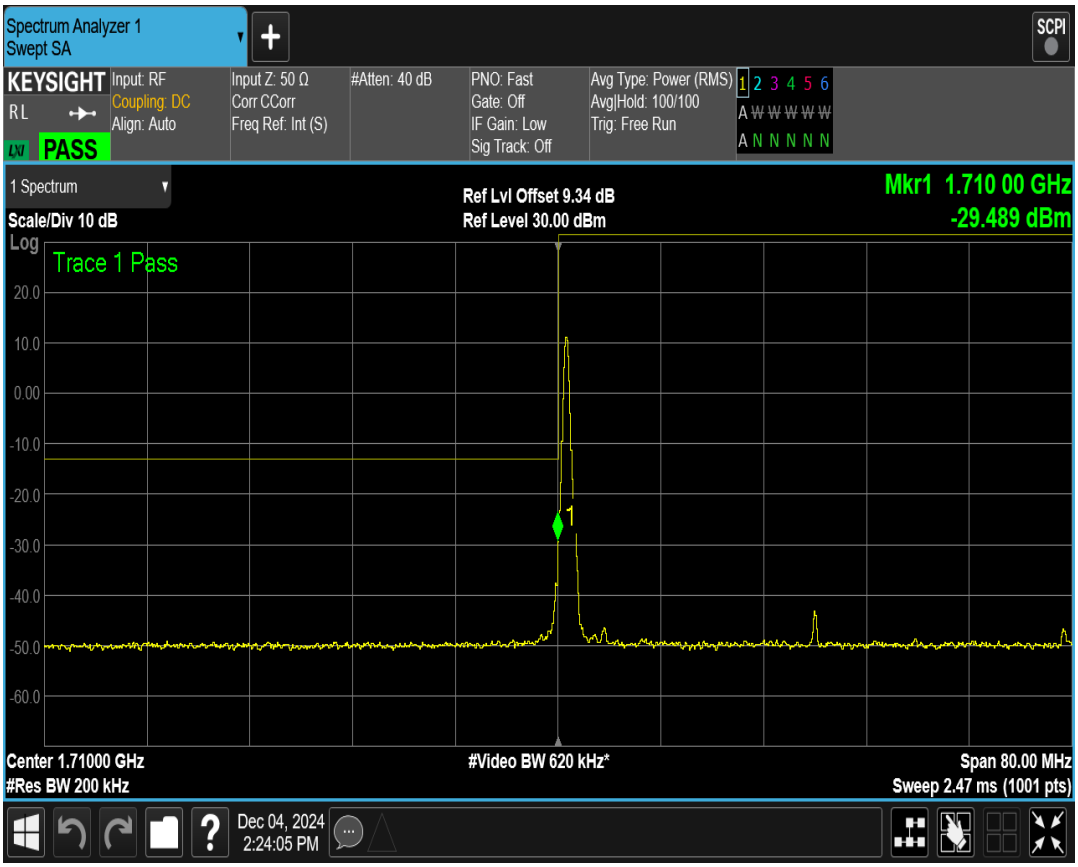
n66 SCS=15kHz CP_QPSK BW=20MHz Channel=354000 RB=1@0



n66 SCS=15kHz CP_QPSK BW=20MHz Channel=354000 RB=1@105

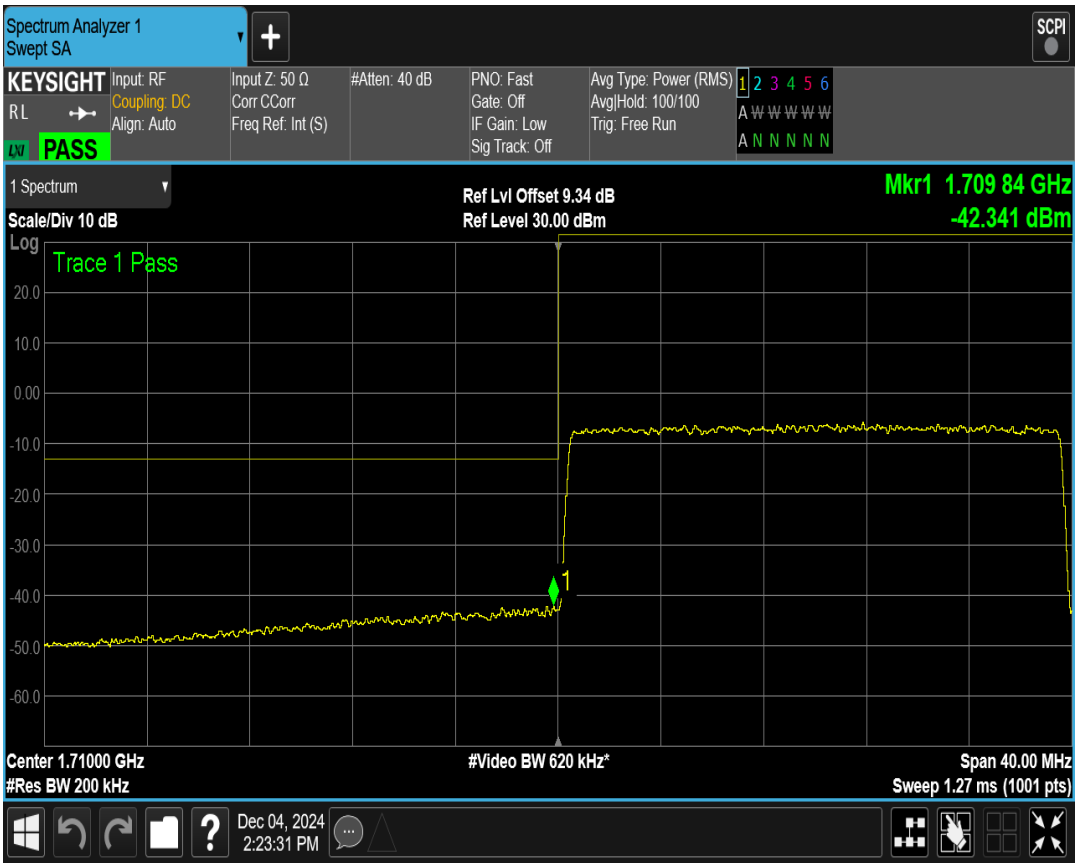


n66 SCS=15kHz CP_QPSK BW=40MHz Channel=346000 RB=1@0

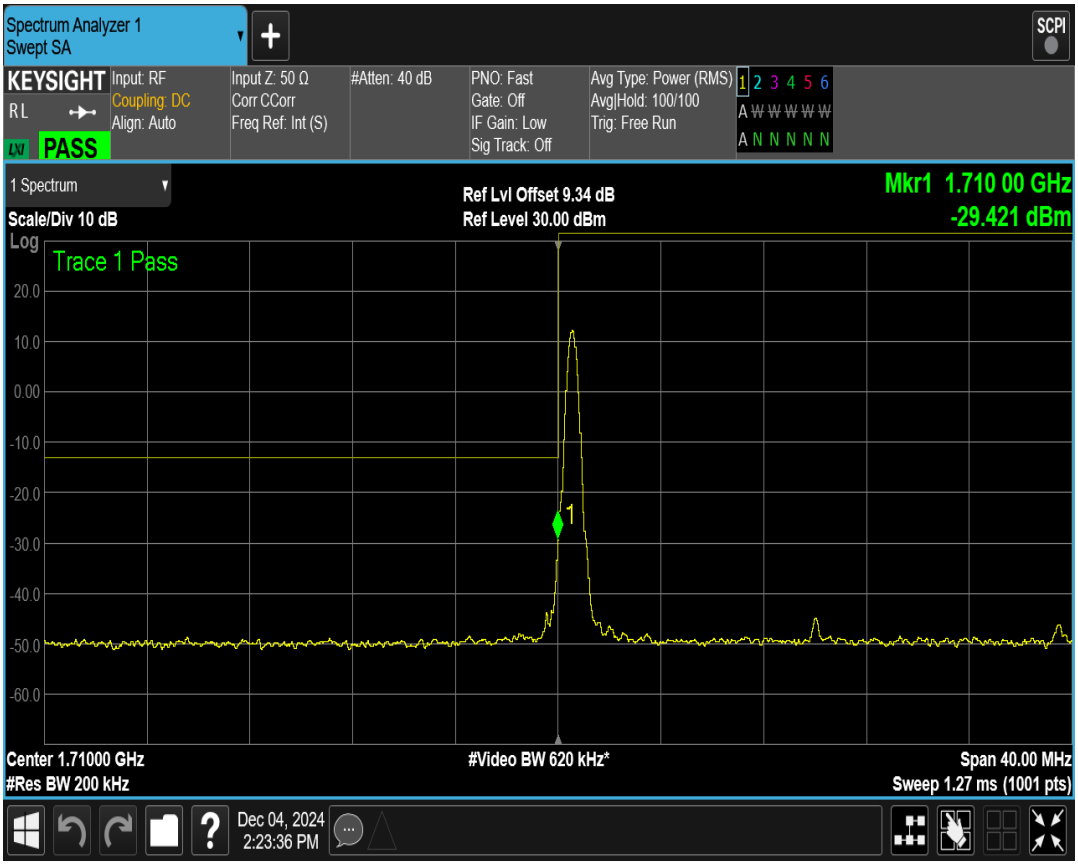


n66 SCS=15kHz CP_QPSK BW=20MHz Channel=354000 RB=106@0

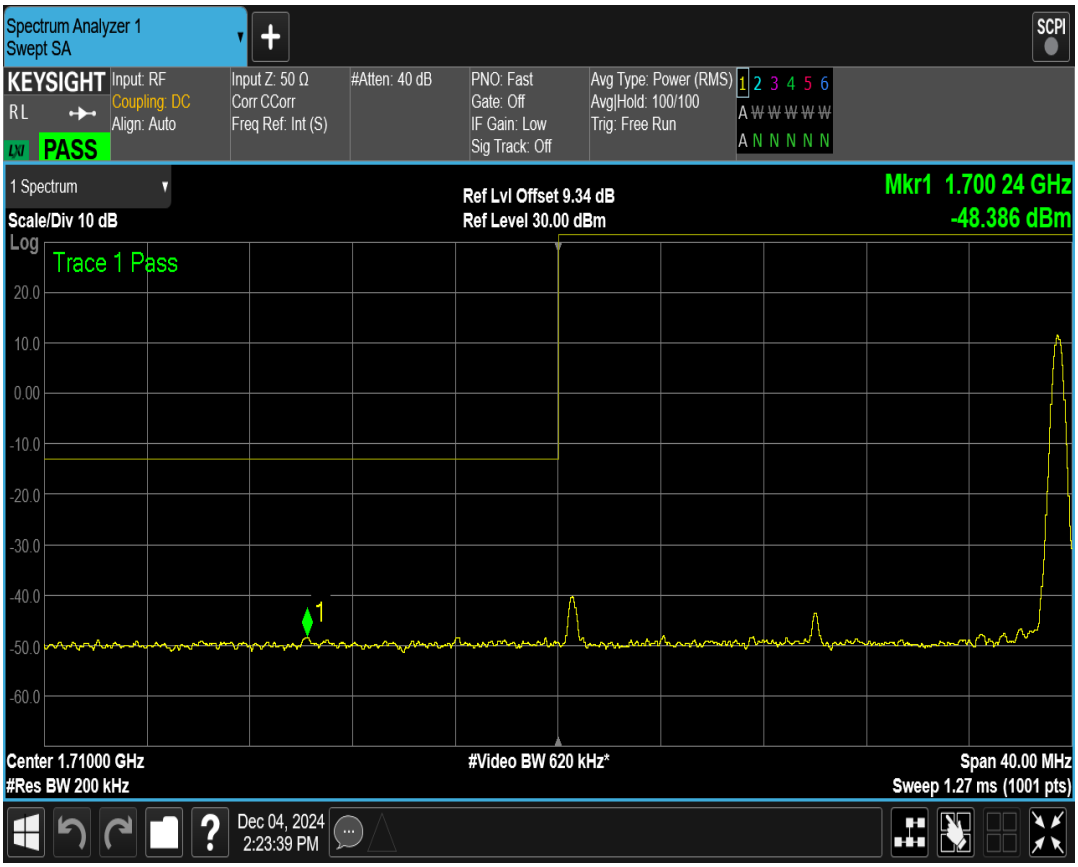
n66 SCS=15kHz CP_QPSK BW=20MHz Channel=344000 RB=106@0



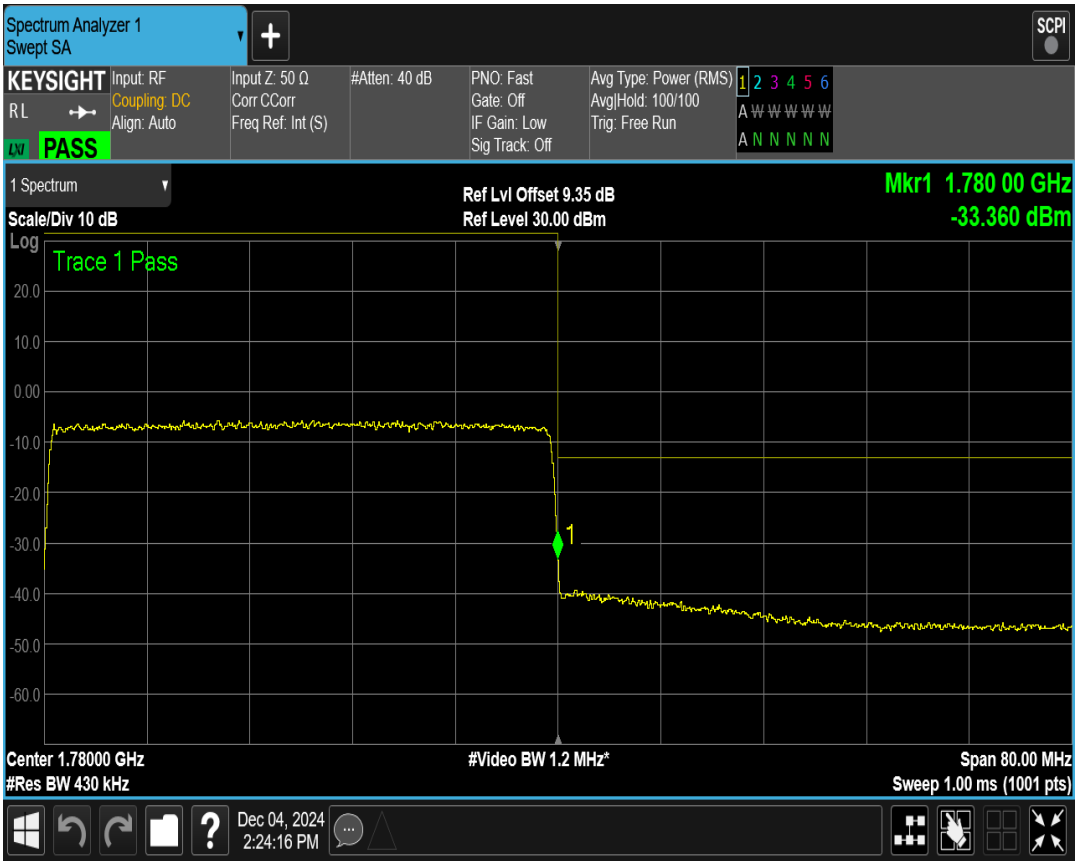
n66 SCS=15kHz CP_QPSK BW=20MHz Channel=344000 RB=1@0



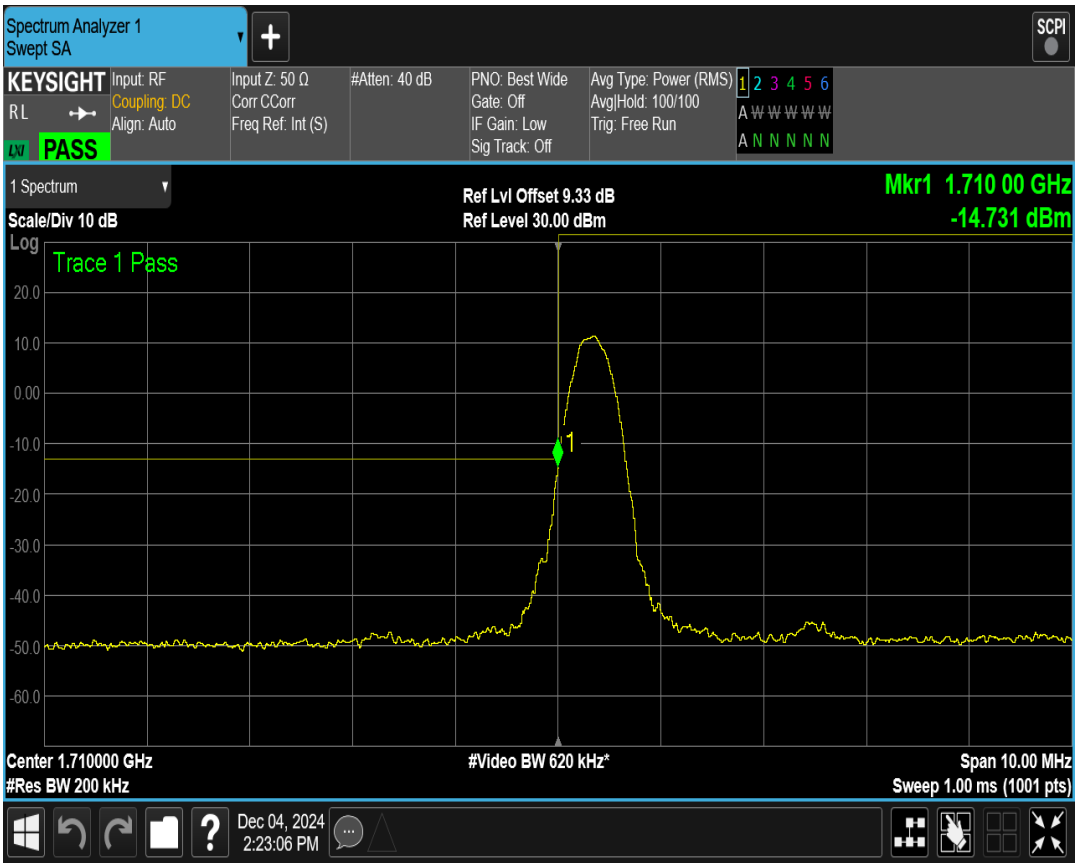
n66 SCS=15kHz CP_QPSK BW=20MHz Channel=344000 RB=1@105



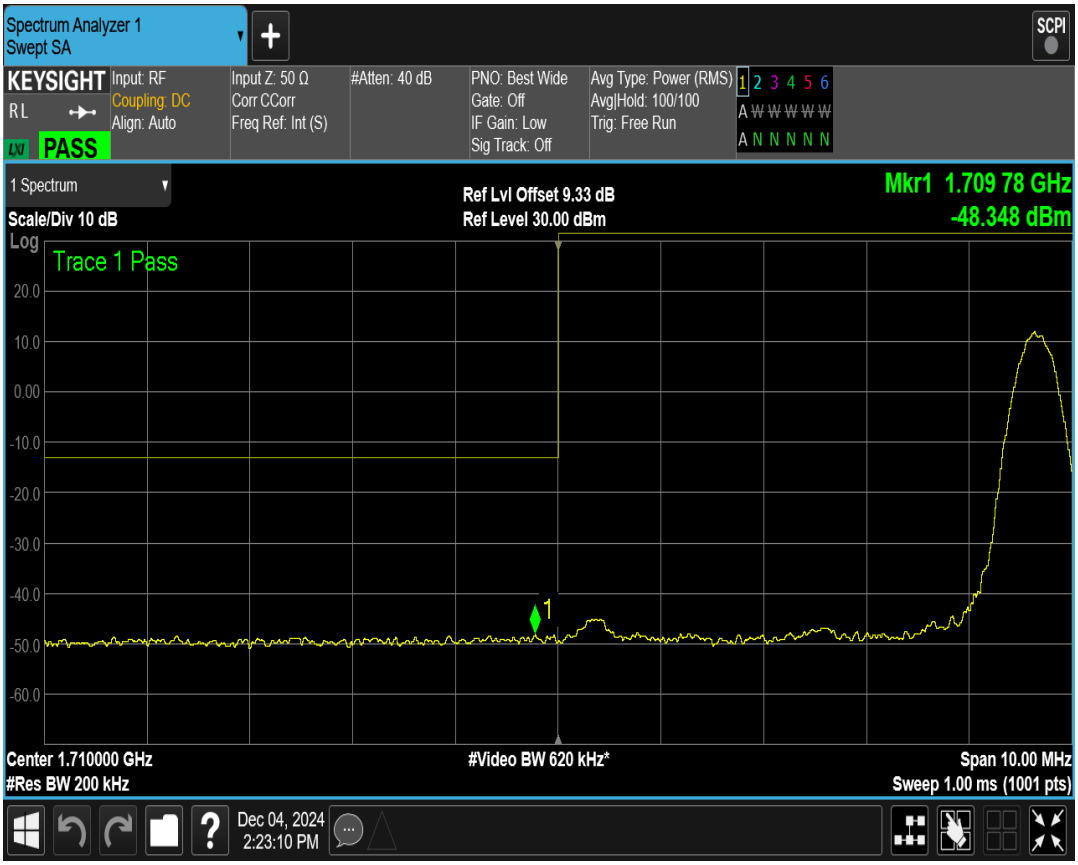
n66 SCS=15kHz CP_QPSK BW=40MHz Channel=352000 RB=216@0



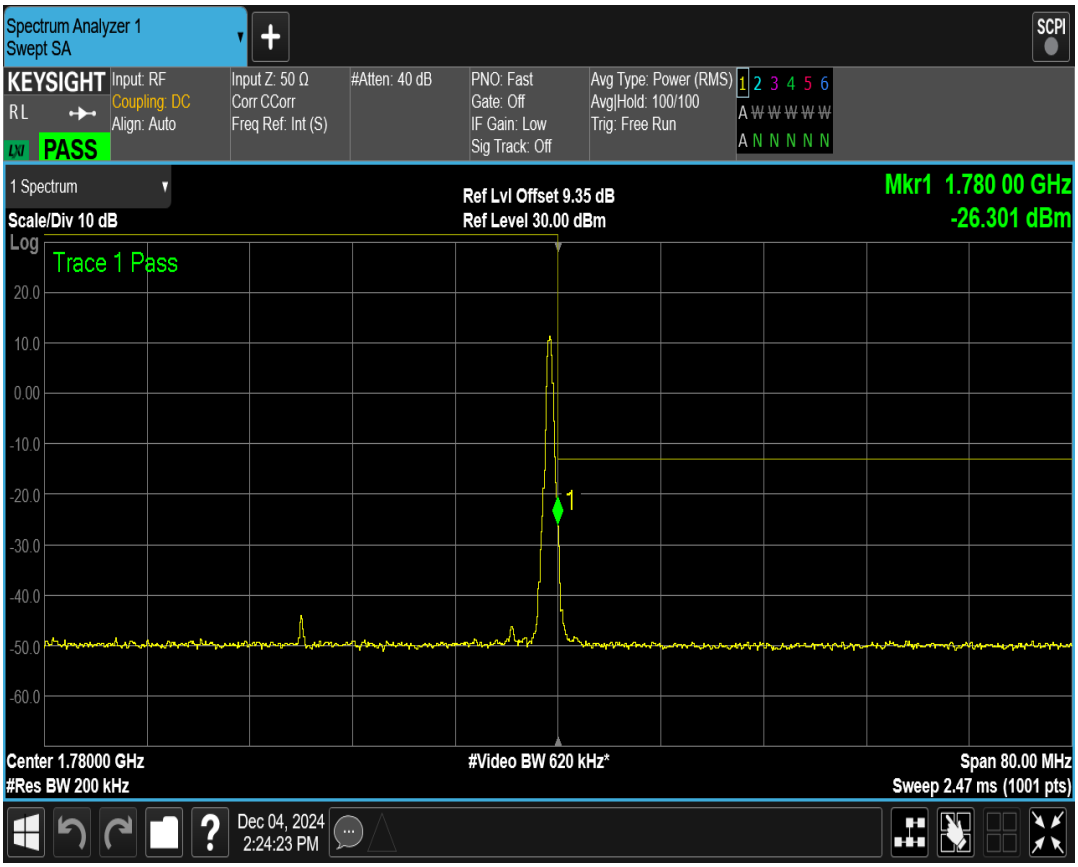
n66 SCS=15kHz CP_QPSK BW=5MHz Channel=342500 RB=1@0



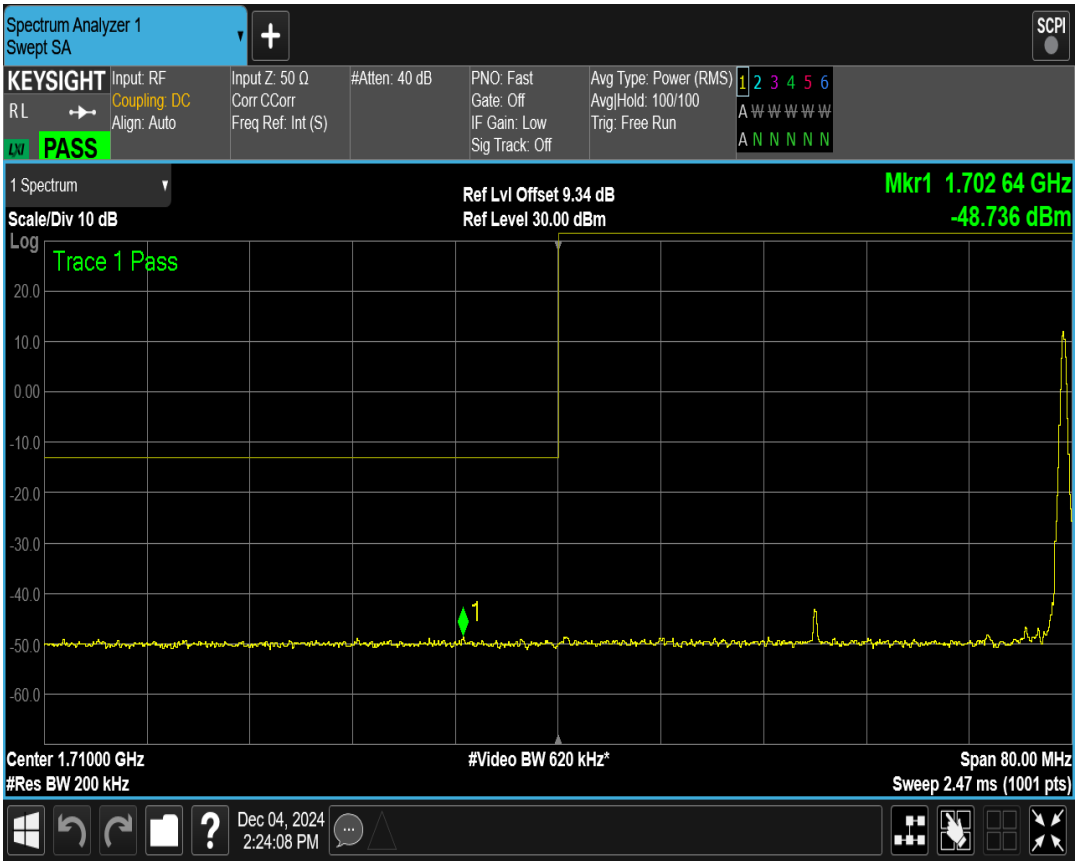
n66 SCS=15kHz CP_QPSK BW=5MHz Channel=342500 RB=1@24



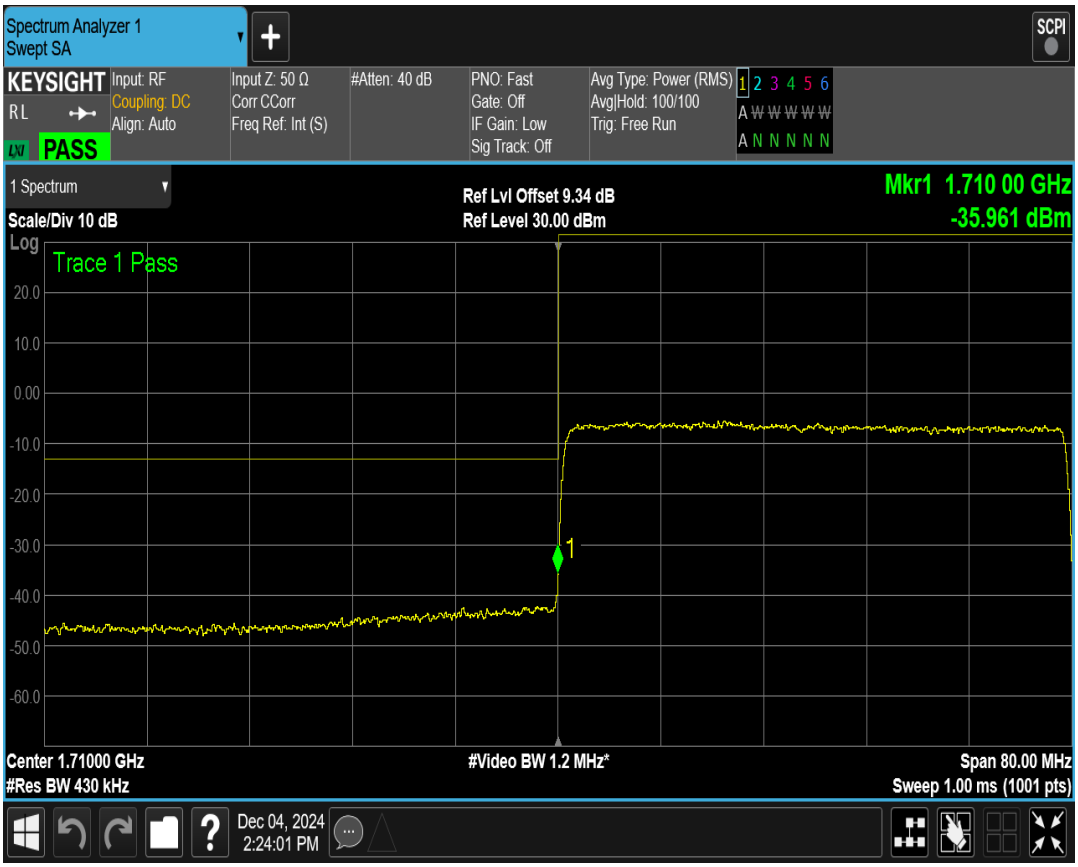
n66 SCS=15kHz CP_QPSK BW=40MHz Channel=352000 RB=1@215



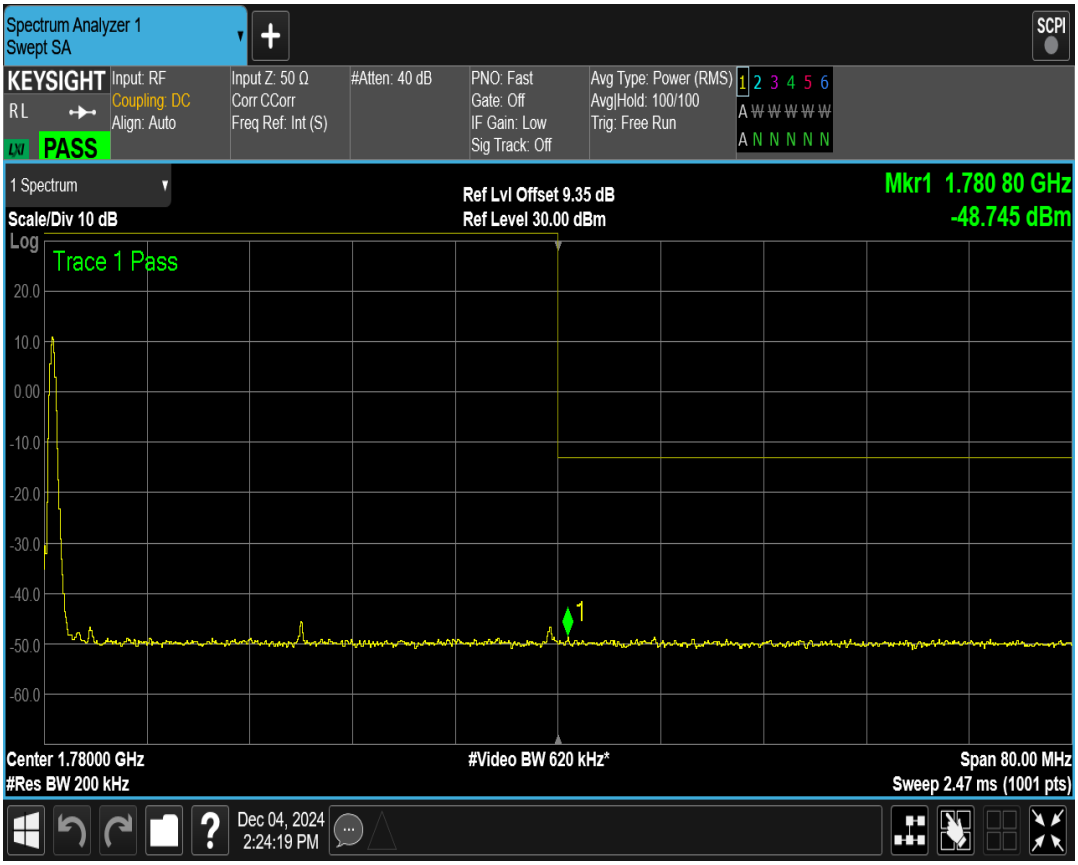
n66 SCS=15kHz CP_QPSK BW=40MHz Channel=346000 RB=1@215



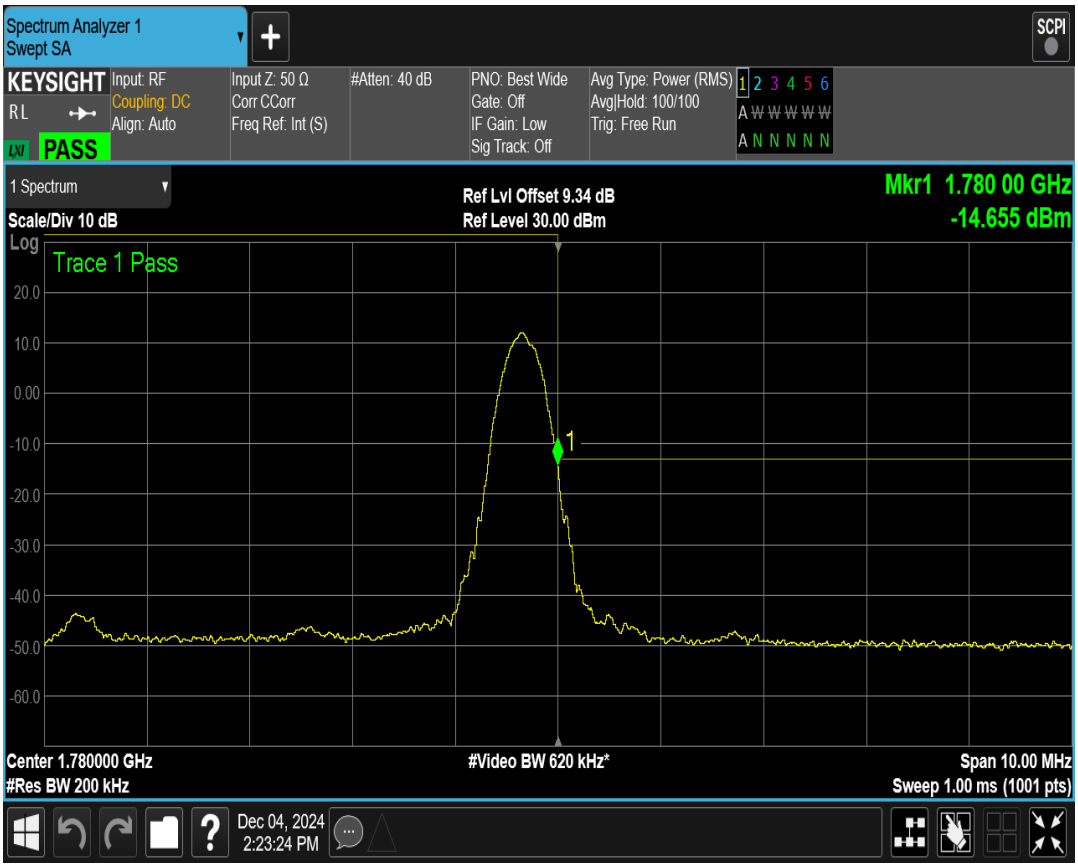
n66 SCS=15kHz CP_QPSK BW=40MHz Channel=346000 RB=216@0



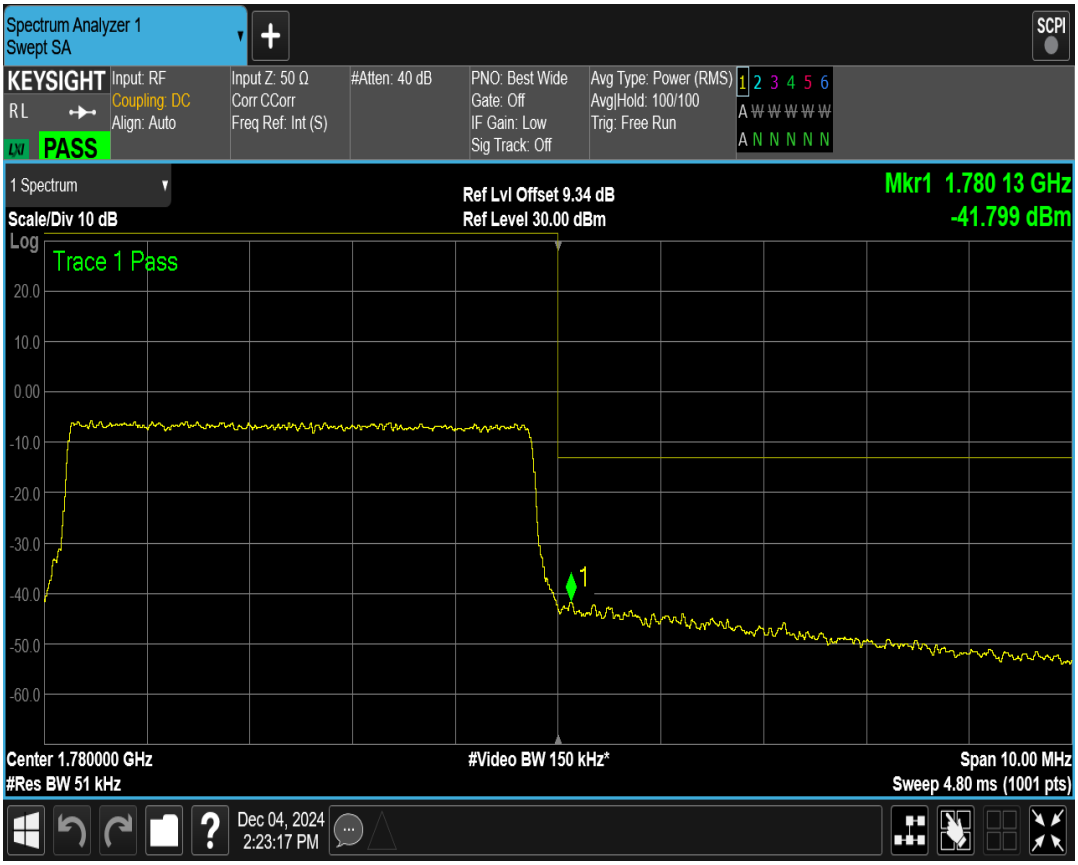
n66 SCS=15kHz CP_QPSK BW=40MHz Channel=352000 RB=1@0



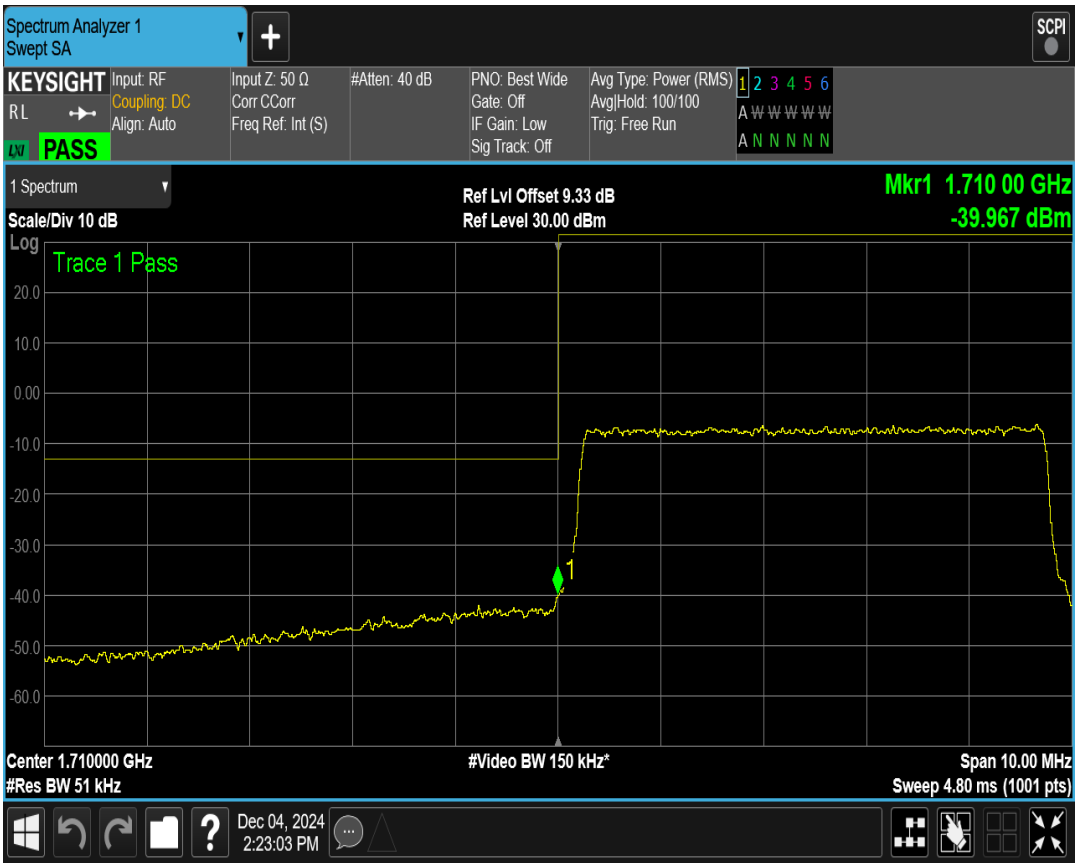
n66 SCS=15kHz CP_QPSK BW=5MHz Channel=355500 RB=1@24



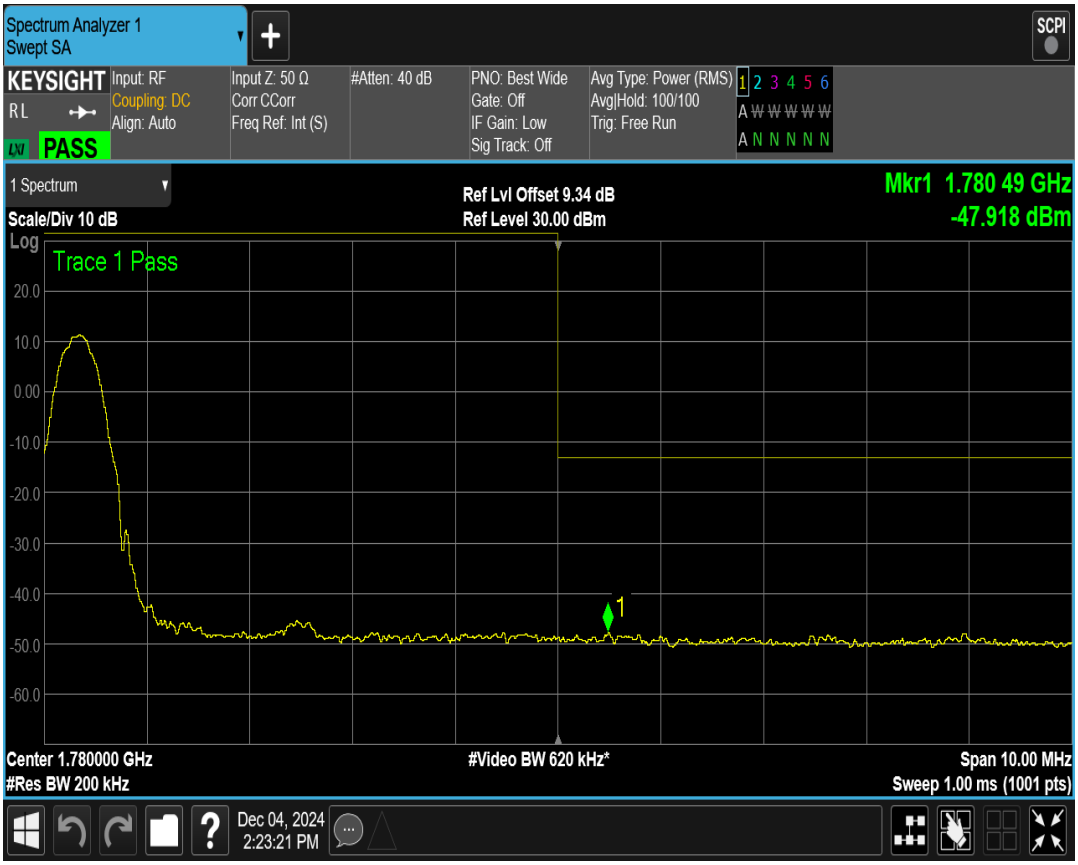
n66 SCS=15kHz CP_QPSK BW=5MHz Channel=355500 RB=25@0



n66 SCS=15kHz CP_QPSK BW=5MHz Channel=342500 RB=25@0



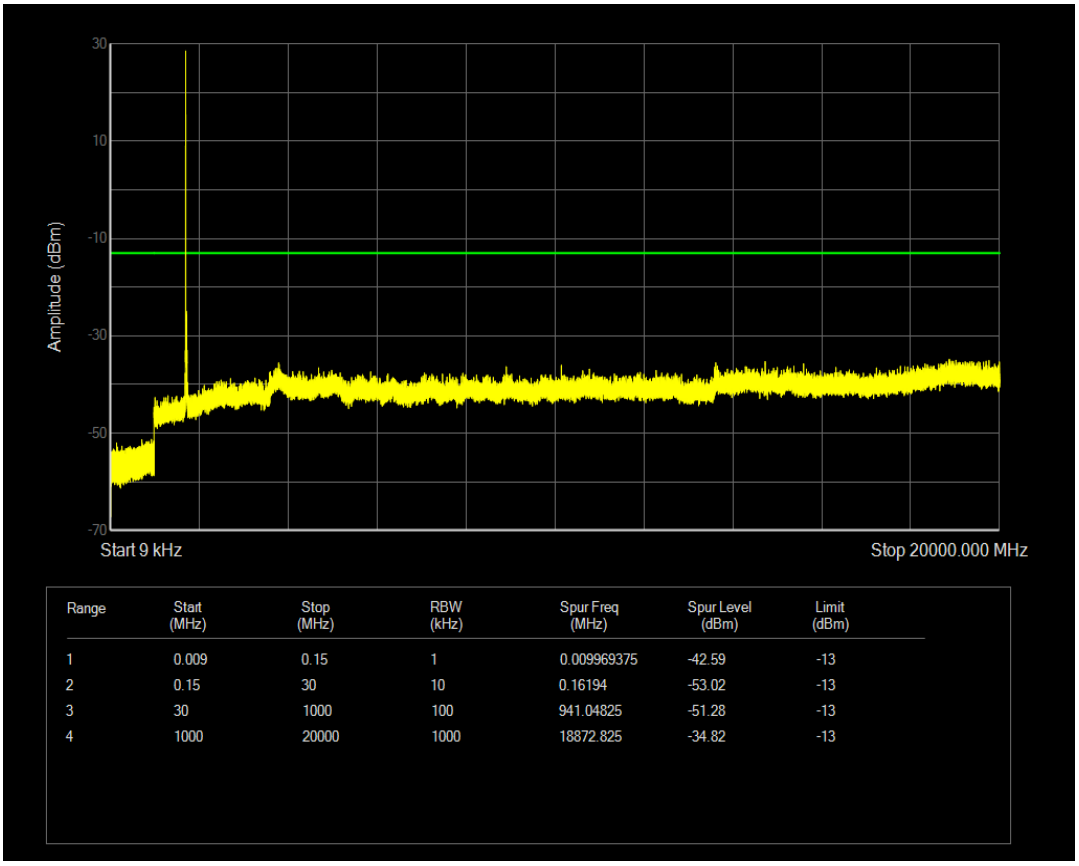
n66 SCS=15kHz CP_QPSK BW=5MHz Channel=355500 RB=1@0



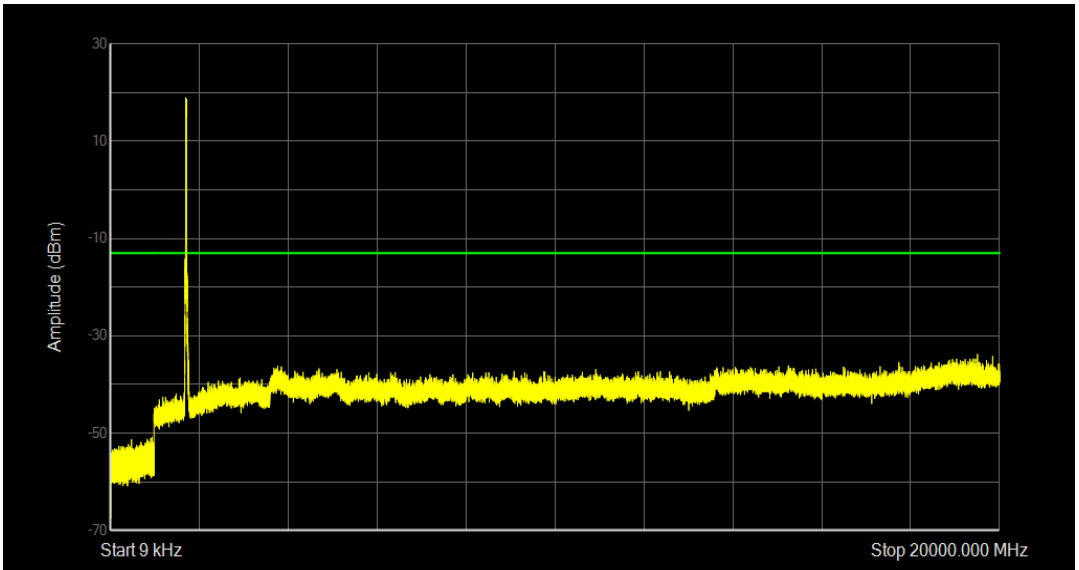
6 Out-of-band emissions for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n66	15	5	342500	25@0	CP_QPSK	19349.73	-34.06	-13	PASS
n66	15	5	342500	1@0	CP_QPSK	18911.30	-34.37	-13	PASS
n66	15	5	342500	1@24	CP_QPSK	19404.83	-33.92	-13	PASS
n66	15	5	355500	25@0	CP_QPSK	19914.98	-34.68	-13	PASS
n66	15	5	355500	1@0	CP_QPSK	19144.53	-34.33	-13	PASS
n66	15	5	355500	1@24	CP_QPSK	19215.30	-34.08	-13	PASS
n66	15	20	344000	106@0	CP_QPSK	19503.15	-33.80	-13	PASS
n66	15	20	344000	1@0	CP_QPSK	18872.83	-34.82	-13	PASS
n66	15	20	344000	1@105	CP_QPSK	19224.33	-34.38	-13	PASS
n66	15	20	354000	106@0	CP_QPSK	19135.98	-34.34	-13	PASS
n66	15	20	354000	1@0	CP_QPSK	18884.70	-34.36	-13	PASS
n66	15	20	354000	1@105	CP_QPSK	19077.55	-34.30	-13	PASS
n66	15	40	346000	216@0	CP_QPSK	18587.83	-34.39	-13	PASS
n66	15	40	346000	1@0	CP_QPSK	19648.50	-34.44	-13	PASS
n66	15	40	346000	1@215	CP_QPSK	19128.85	-33.23	-13	PASS
n66	15	40	352000	216@0	CP_QPSK	18985.40	-34.52	-13	PASS
n66	15	40	352000	1@0	CP_QPSK	18946.45	-34.57	-13	PASS
n66	15	40	352000	1@215	CP_QPSK	19192.03	-34.24	-13	PASS

n66 SCS=15kHz CP_QPSK BW=20MHz Channel=344000 RB=1@0

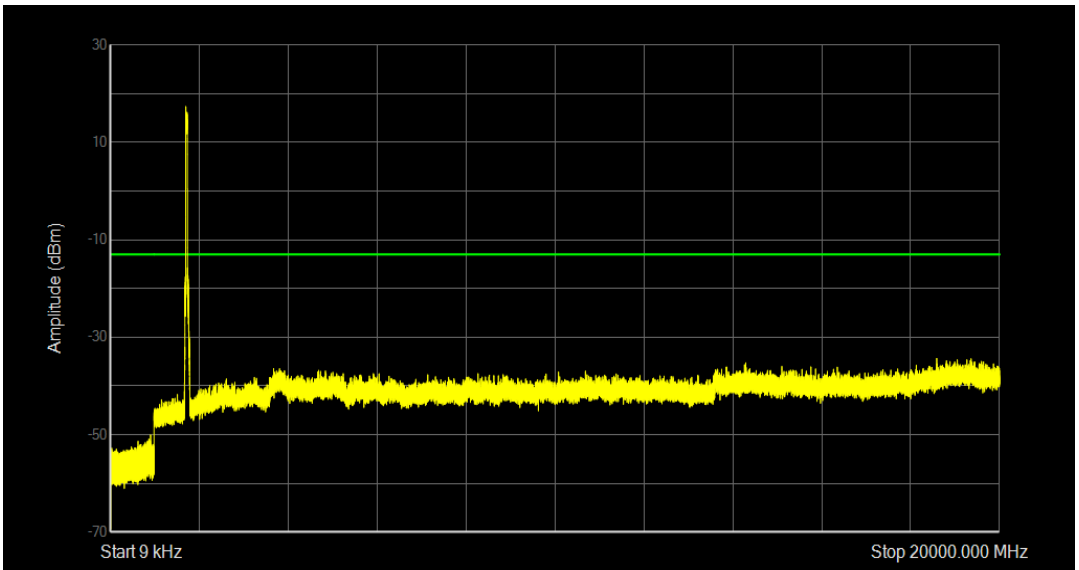


n66 SCS=15kHz CP_QPSK BW=20MHz Channel=344000 RB=106@0



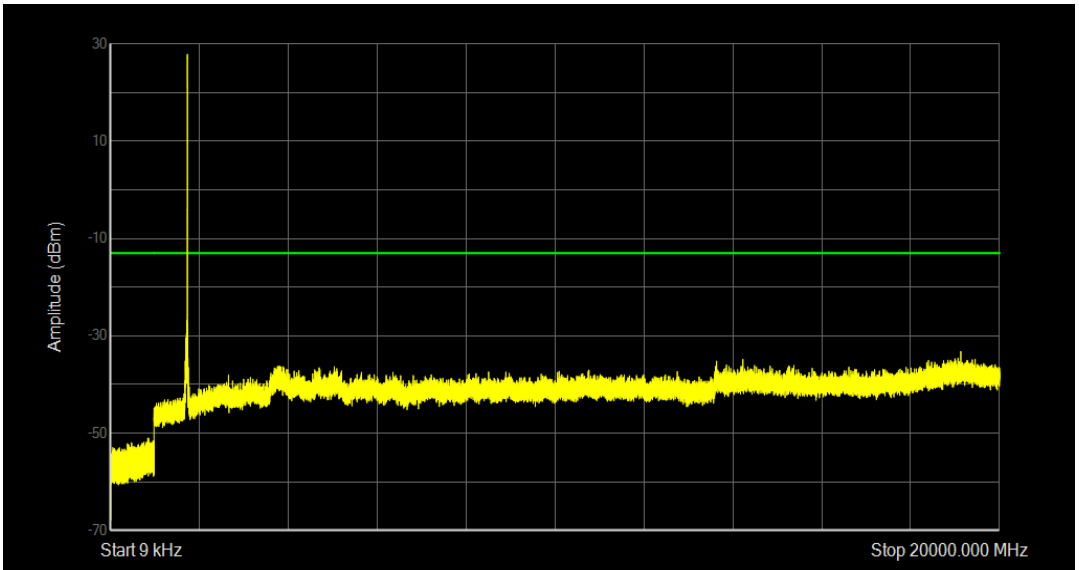
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0105369	-43.27	-13
2	0.15	30	10	0.15074625	-54.19	-13
3	30	1000	100	958.6295	-50.81	-13
4	1000	20000	1000	19503.15	-33.8	-13

n66 SCS=15kHz CP_QPSK BW=40MHz Channel=346000 RB=216@0



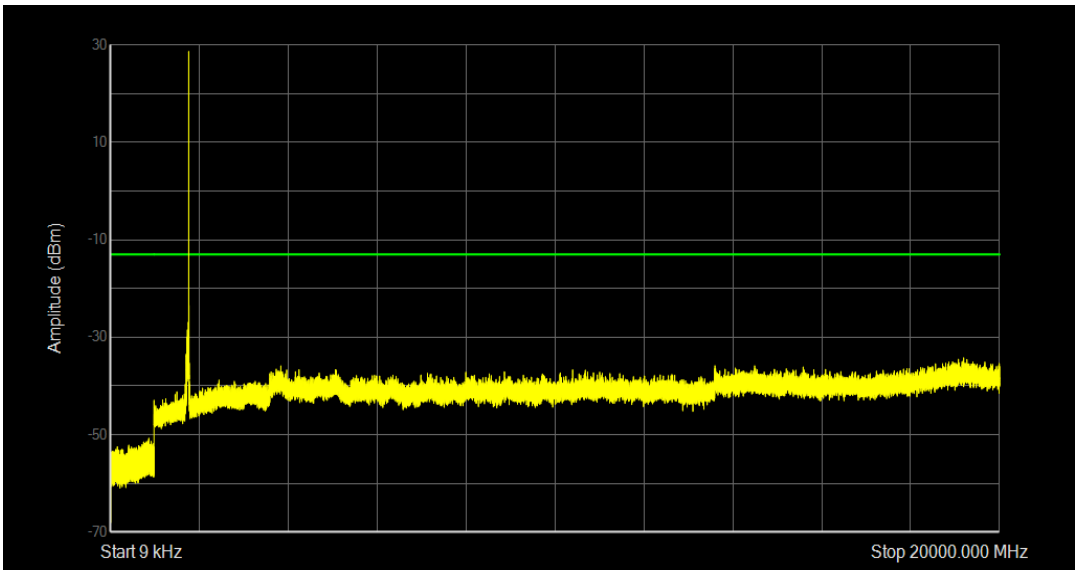
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-43.58	-13
2	0.15	30	10	0.170895	-53.29	-13
3	30	1000	100	922.13325	-50.08	-13
4	1000	20000	1000	18587.825	-34.39	-13

n66 SCS=15kHz CP_QPSK BW=40MHz Channel=346000 RB=1@215



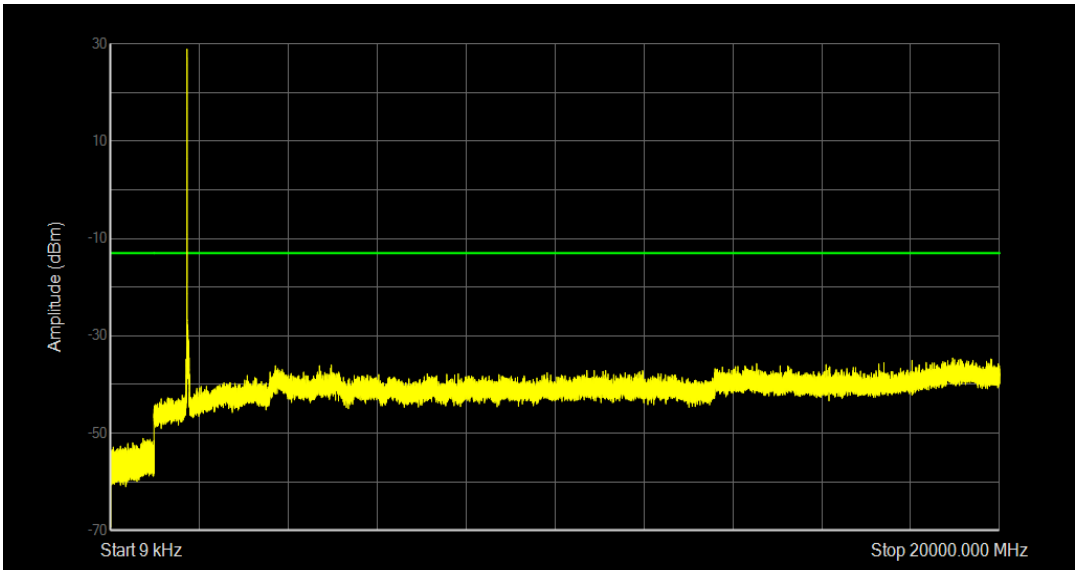
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010857675	-43.71	-13
2	0.15	30	10	0.17761125	-53.45	-13
3	30	1000	100	861.60525	-51.04	-13
4	1000	20000	1000	19128.85	-33.23	-13

n66 SCS=15kHz CP_QPSK BW=40MHz Channel=352000 RB=1@215



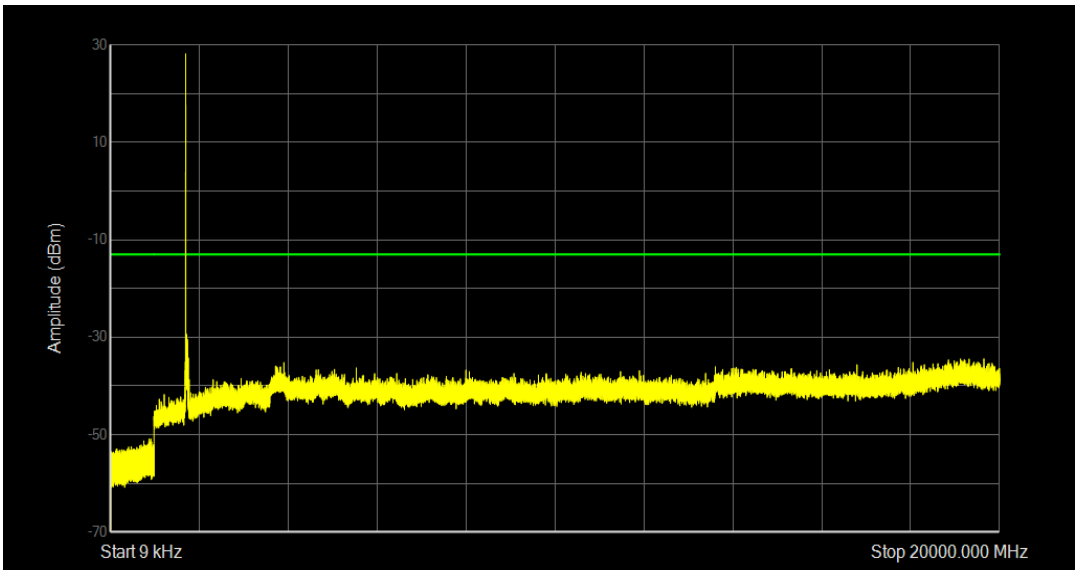
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0098742	-42.34	-13
2	0.15	30	10	0.15	-52.82	-13
3	30	1000	100	884.49725	-50.75	-13
4	1000	20000	1000	19192.025	-34.24	-13

n66 SCS=15kHz CP_QPSK BW=40MHz Channel=352000 RB=1@0



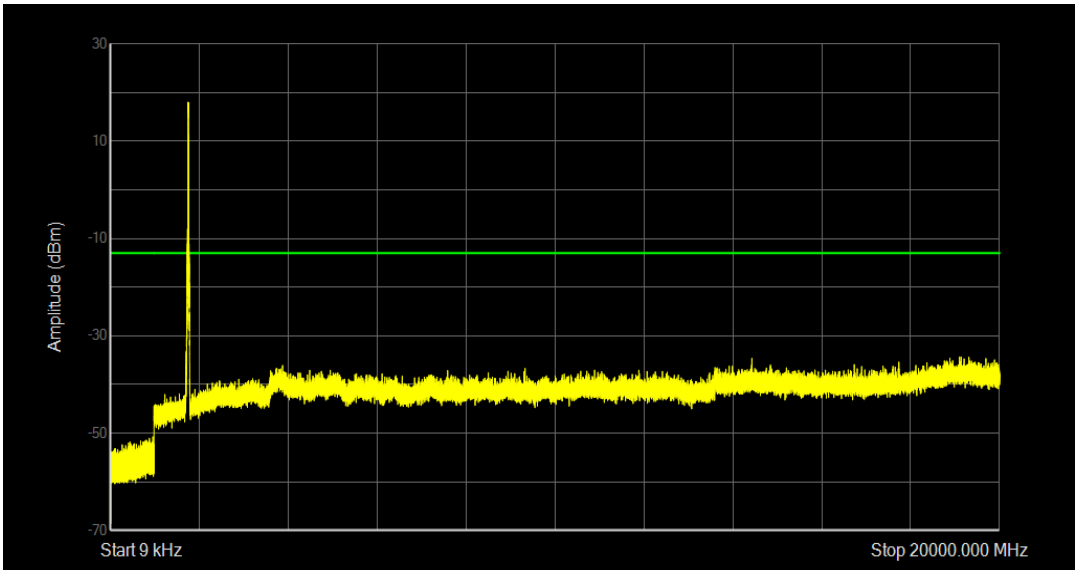
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00996585	-42.53	-13
2	0.15	30	10	0.16194	-53.67	-13
3	30	1000	100	754.396	-51.09	-13
4	1000	20000	1000	18946.45	-34.57	-13

n66 SCS=15kHz CP_QPSK BW=40MHz Channel=346000 RB=1@0



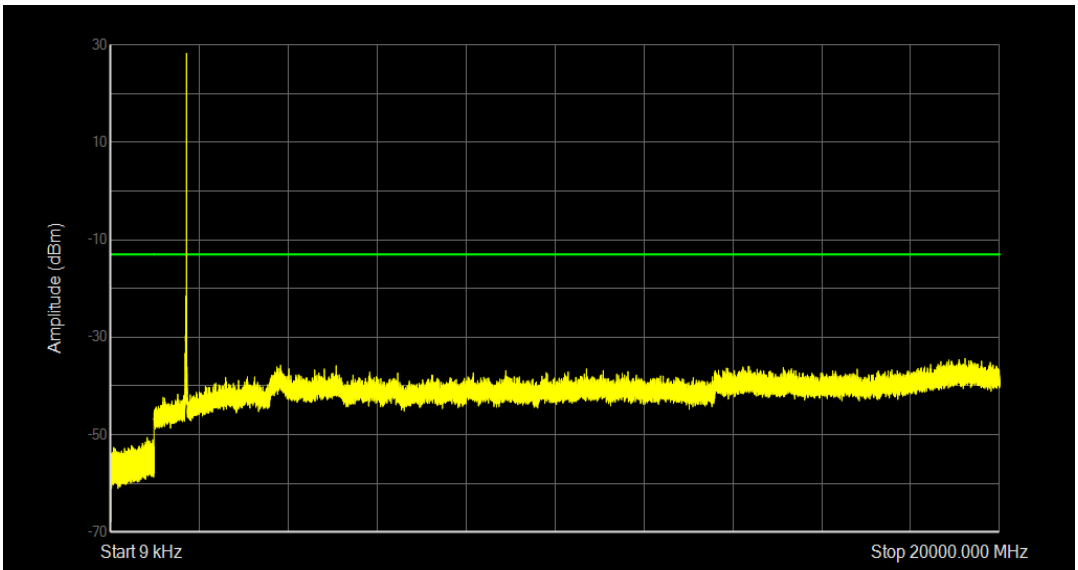
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013205325	-43.65	-13
2	0.15	30	10	0.19552125	-54.25	-13
3	30	1000	100	892.64525	-50.87	-13
4	1000	20000	1000	19648.5	-34.44	-13

n66 SCS=15kHz CP_QPSK BW=20MHz Channel=354000 RB=106@0



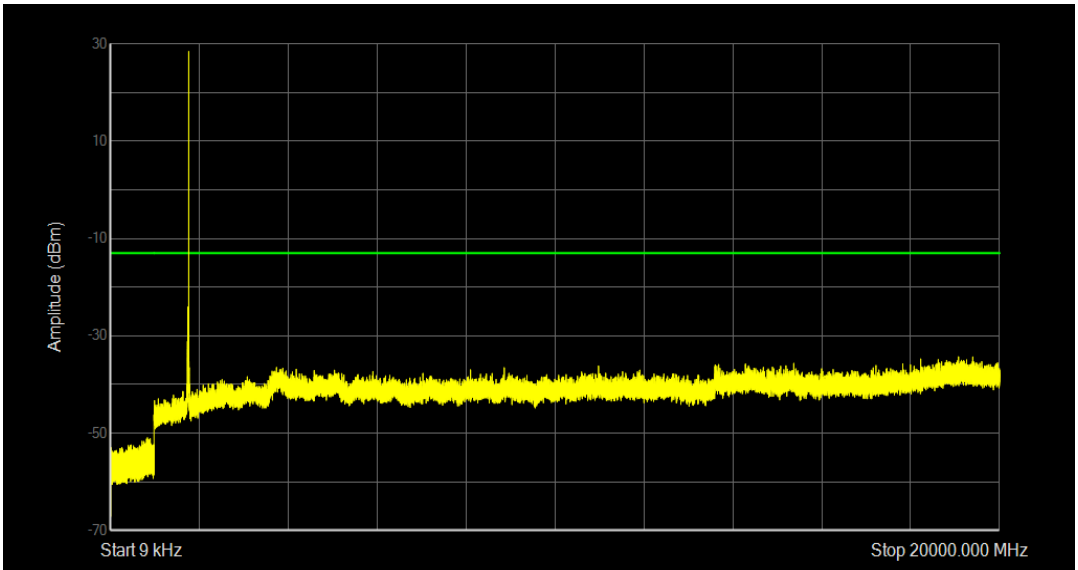
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012542625	-42.1	-13
2	0.15	30	10	0.1694025	-52.98	-13
3	30	1000	100	974.3435	-50.74	-13
4	1000	20000	1000	19135.975	-34.34	-13

n66 SCS=15kHz CP_QPSK BW=20MHz Channel=344000 RB=1@105



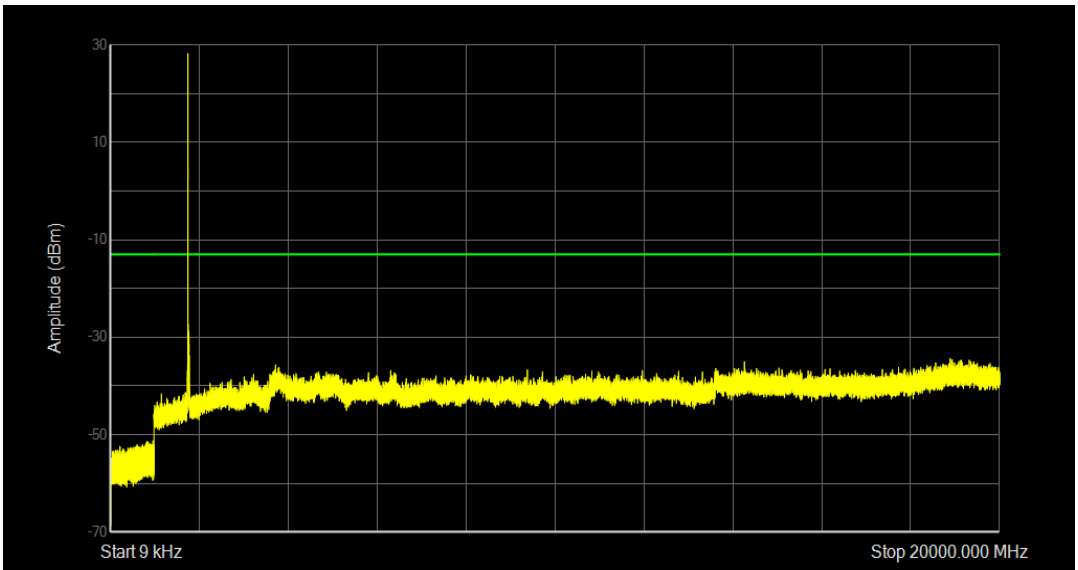
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010244325	-42.49	-13
2	0.15	30	10	0.15671625	-53.69	-13
3	30	1000	100	845.091	-50.59	-13
4	1000	20000	1000	19224.325	-34.38	-13

n66 SCS=15kHz CP_QPSK BW=20MHz Channel=354000 RB=1@105



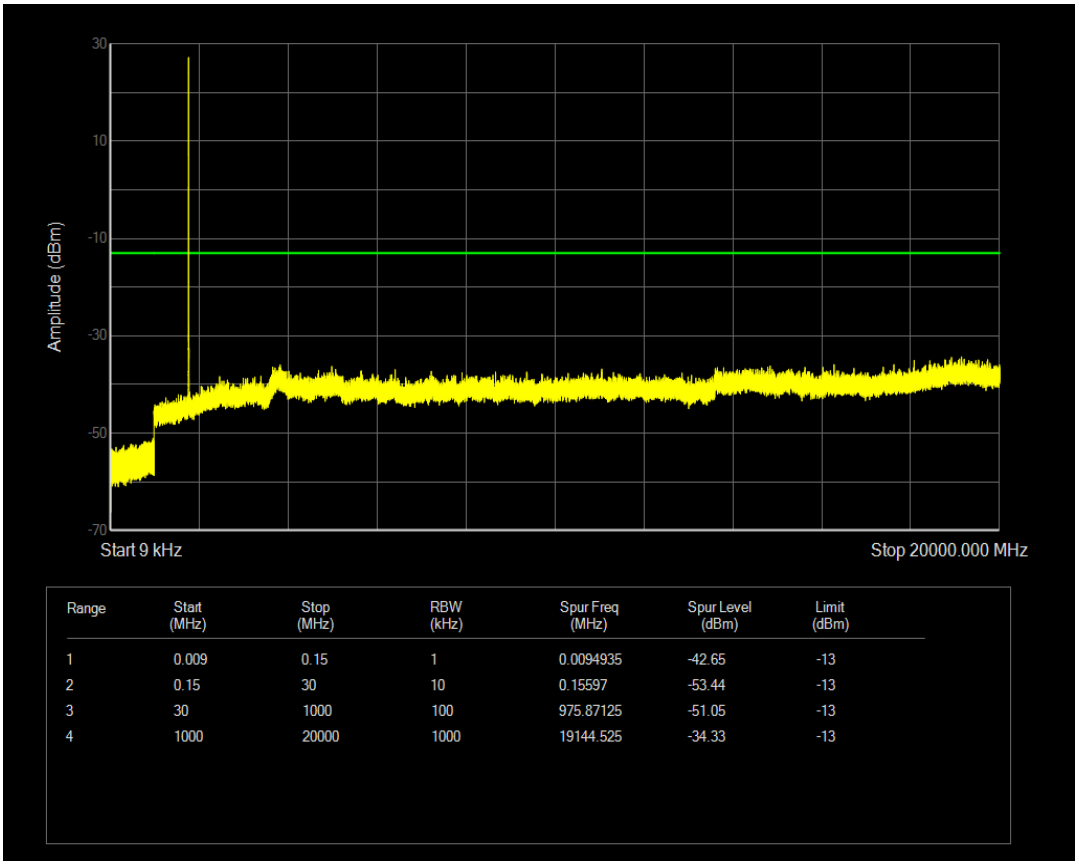
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011753025	-43.69	-13
2	0.15	30	10	0.15373125	-54.3	-13
3	30	1000	100	852.24475	-50.95	-13
4	1000	20000	1000	19077.55	-34.3	-13

n66 SCS=15kHz CP_QPSK BW=20MHz Channel=354000 RB=1@0



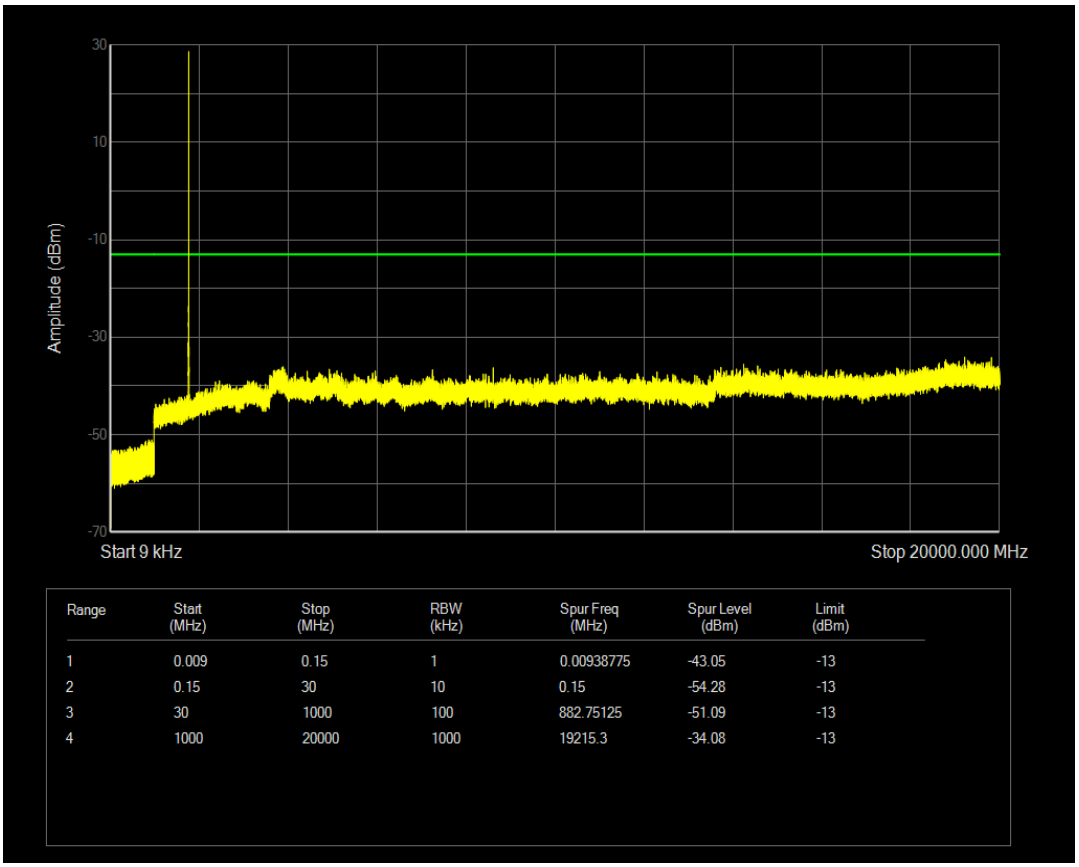
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00904935	-42.76	-13
2	0.15	30	10	0.17313375	-54.21	-13
3	30	1000	100	975.33775	-51.27	-13
4	1000	20000	1000	18884.7	-34.36	-13

n66 SCS=15kHz CP_QPSK BW=5MHz Channel=355500 RB=1@0



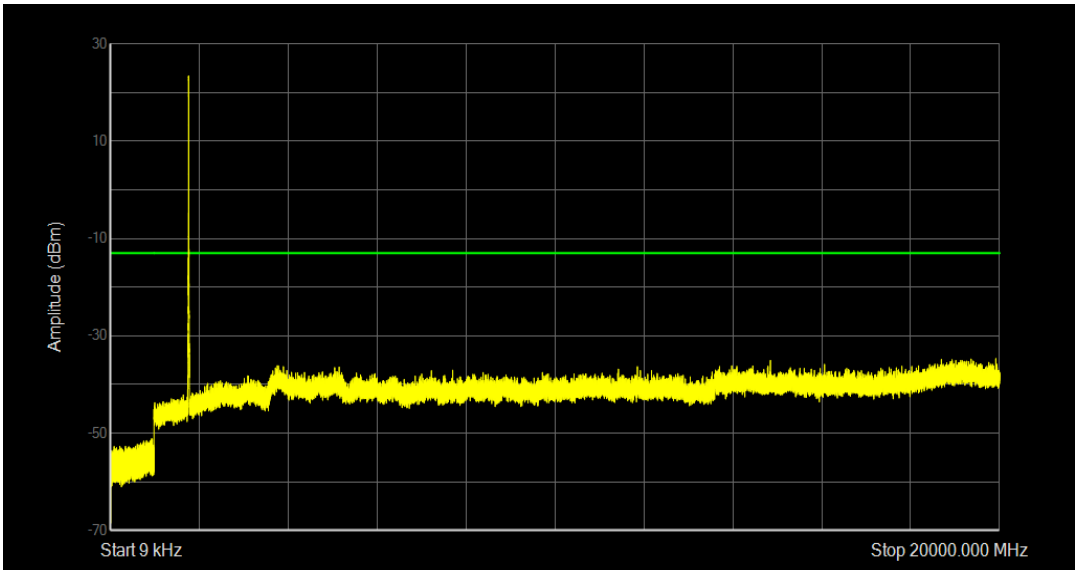
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0094935	-42.65	-13
2	0.15	30	10	0.15597	-53.44	-13
3	30	1000	100	975.87125	-51.05	-13
4	1000	20000	1000	19144.525	-34.33	-13

n66 SCS=15kHz CP_QPSK BW=5MHz Channel=355500 RB=1@24



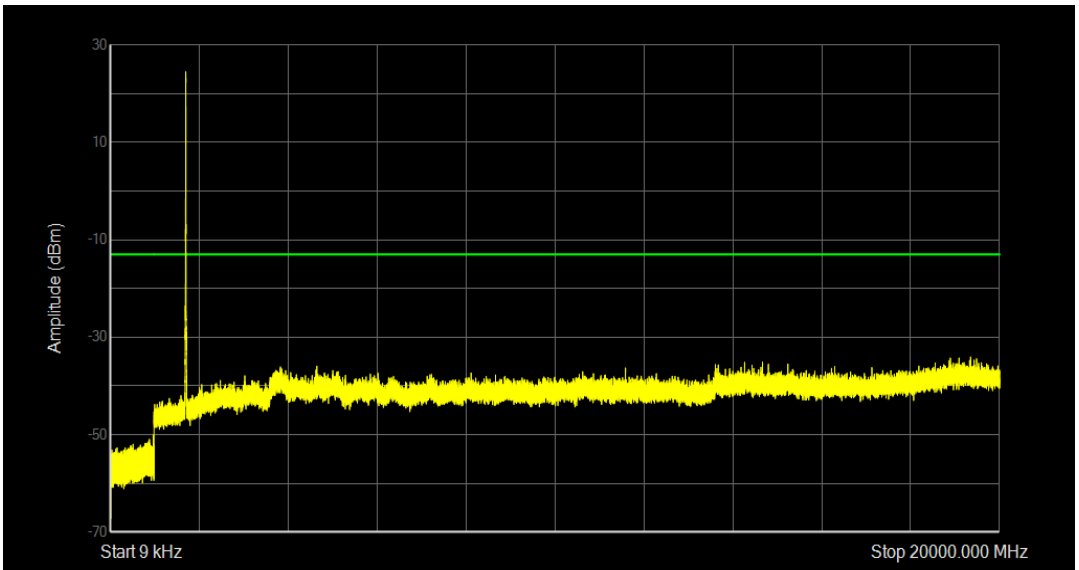
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00938775	-43.05	-13
2	0.15	30	10	0.15	-54.28	-13
3	30	1000	100	882.75125	-51.09	-13
4	1000	20000	1000	19215.3	-34.08	-13

n66 SCS=15kHz CP_QPSK BW=5MHz Channel=355500 RB=25@0



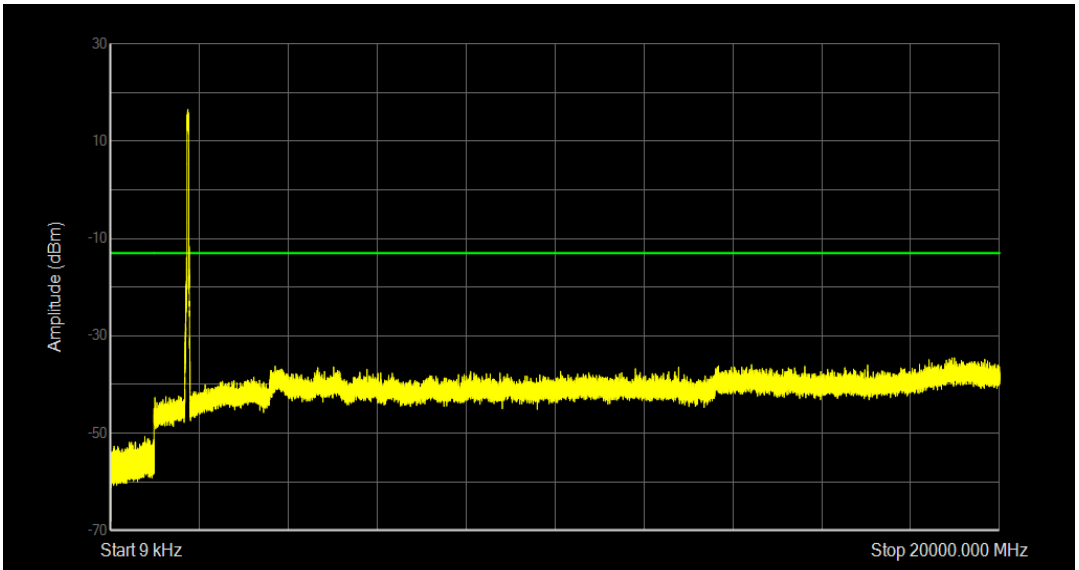
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.014009025	-42.8	-13
2	0.15	30	10	0.15671625	-53.7	-13
3	30	1000	100	942.6245	-51.18	-13
4	1000	20000	1000	19914.975	-34.68	-13

n66 SCS=15kHz CP_QPSK BW=5MHz Channel=342500 RB=25@0



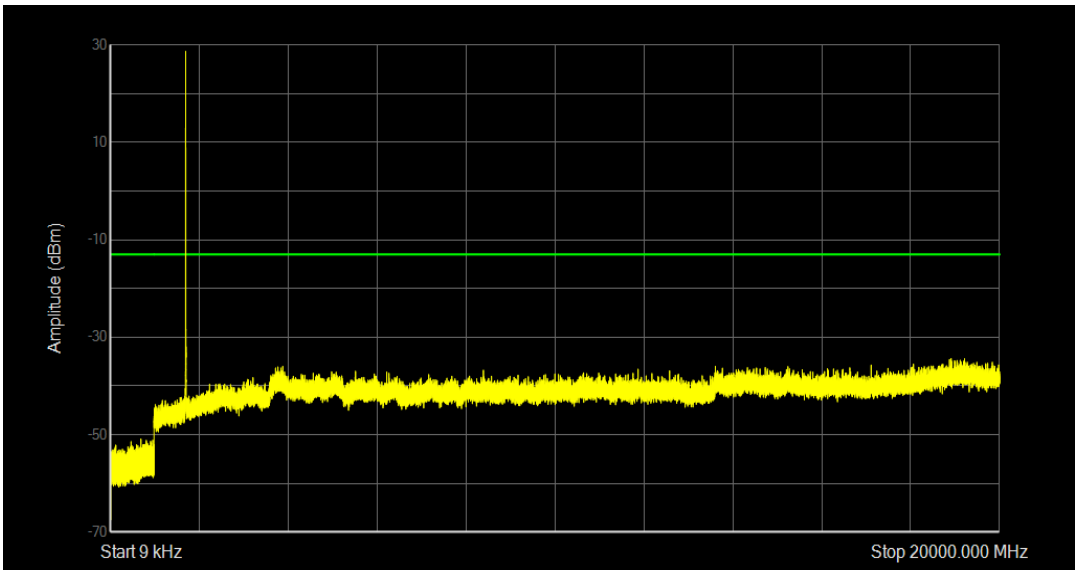
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009877725	-42.58	-13
2	0.15	30	10	0.16119375	-54.61	-13
3	30	1000	100	985.37725	-50.1	-13
4	1000	20000	1000	19349.725	-34.06	-13

n66 SCS=15kHz CP_QPSK BW=40MHz Channel=352000 RB=216@0



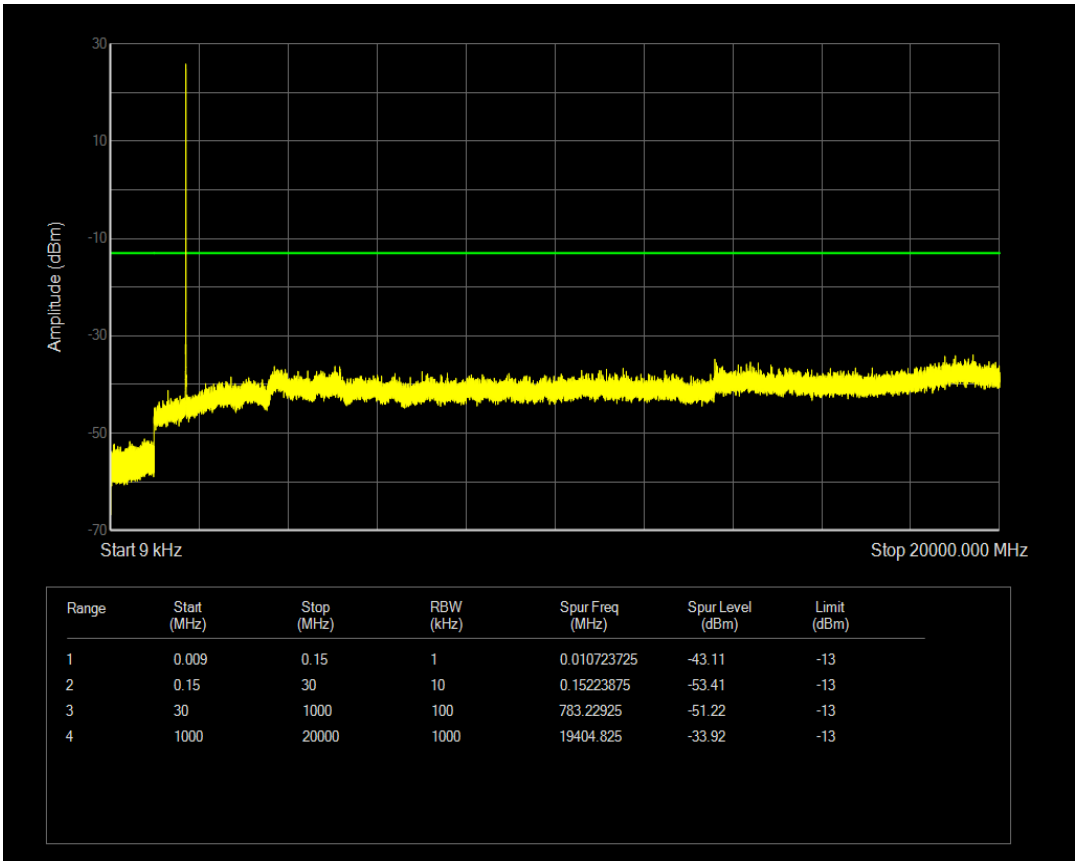
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.015137025	-43.5	-13
2	0.15	30	10	0.158955	-53.61	-13
3	30	1000	100	793.39	-50.72	-13
4	1000	20000	1000	18985.4	-34.52	-13

n66 SCS=15kHz CP_QPSK BW=5MHz Channel=342500 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013614225	-42.6	-13
2	0.15	30	10	0.15820875	-52.99	-13
3	30	1000	100	703.859	-50.91	-13
4	1000	20000	1000	18911.3	-34.37	-13

n66 SCS=15kHz CP_QPSK BW=5MHz Channel=342500 RB=1@24



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010723725	-43.11	-13
2	0.15	30	10	0.15223875	-53.41	-13
3	30	1000	100	783.22925	-51.22	-13
4	1000	20000	1000	19404.825	-33.92	-13