n77(3700-3980) SCS=30kHz DFT_QAM64 BW=100MHz Channel=656000 RB=270@0

n77(3700-3980) SCS=30kHz DFT_QAM64 BW=15MHz Channel=656000 RB=36@0

n77(3700-3980) SCS=30kHz DFT_QAM64 BW=10MHz Channel=656000 RB=24@0

n77(3700-3980) SCS=30kHz DFT_QAM64 BW=30MHz Channel=656000 RB=75@0

n77(3700-3980) SCS=30kHz DFT_QAM64 BW=20MHz Channel=656000 RB=50@0

n77(3700-3980) SCS=30kHz DFT_QAM64 BW=40MHz Channel=656000 RB=100@0

n77(3700-3980) SCS=30kHz DFT_QAM64 BW=50MHz Channel=656000 RB=128@0

n77(3700-3980) SCS=30kHz DFT_QAM64 BW=60MHz Channel=656000 RB=162@0

n77(3700-3980) SCS=30kHz DFT_QAM64 BW=80MHz Channel=656000 RB=216@0

n77(3700-3980) SCS=30kHz DFT_QAM64 BW=90MHz Channel=656000 RB=240@0

n77(3700-3980) SCS=30kHz DFT_QPSK BW=10MHz Channel=656000 RB=24@0

n77(3700-3980) SCS=30kHz DFT_QPSK BW=100MHz Channel=656000 RB=270@0

n77(3700-3980) SCS=30kHz DFT_QPSK BW=15MHz Channel=656000 RB=36@0

n77(3700-3980) SCS=30kHz DFT_QPSK BW=20MHz Channel=656000 RB=50@0

n77(3700-3980) SCS=30kHz DFT_QPSK BW=40MHz Channel=656000 RB=100@0

n77(3700-3980) SCS=30kHz DFT_QPSK BW=30MHz Channel=656000 RB=75@0

n77(3700-3980) SCS=30kHz DFT_QPSK BW=60MHz Channel=656000 RB=162@0

n77(3700-3980) SCS=30kHz DFT_QPSK BW=50MHz Channel=656000 RB=128@0

n77(3700-3980) SCS=30kHz DFT_QPSK BW=80MHz Channel=656000 RB=216@0

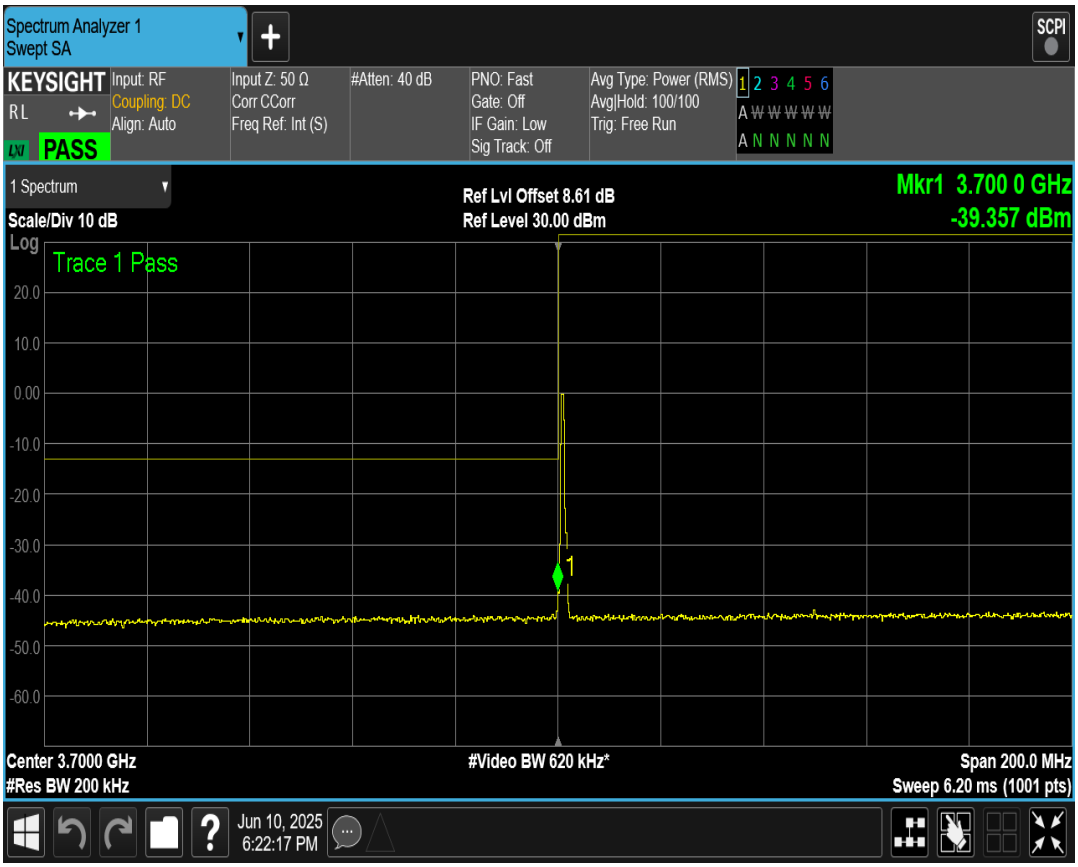
n77(3700-3980) SCS=30kHz DFT_QPSK BW=90MHz Channel=656000 RB=240@0

KEYSIGHT Keysight RF Application (3.5.134.12281)
NR1
CONNECTED
Band
N77
DL BW
90 MHz
Low
Mid
High
ARFCN/Freq
D: 656000
3840.00 MHz
U: 656000
3840.00 MHz
Cell Power
-44.48 dBm/BW
CLPC
All Up Bits
Test Case
Selected Case
SA
NR1
NR2
Cell Quick Config
Measurement
BLER/Tput
UE Info.
Msg. Summary
NR UE Power: 25 dBm DL BLER: 0 %
Duplex: TDD
Port: RFI01
Freq: 3840 MHz
EIP: 30 dBm
Measuring
Acquiring
Avg: 6/6
Occupied Bandwidth
Amplitude (dBm)
0.00
-6.60
-13.21
-19.81
-26.42
-33.02
-39.62
-46.23
-52.83
-59.43
3.762
3.780
3.798
3.816
3.834
3.852
3.870
3.888
3.906
3.924
Frequency (GHz)
Pass/Fail Pass
OBW 86.557 MHz
Tx Freq Err 0.00 Hz
X dB BW 86.76 MHz
Total Power 25.06 dBm
Meas Cell NR1
Meas Mode Basic
Meas Select
Meas Channel PUSCH
Average Count 6
Continuous Off
Restart
NR1
Common
Cell Power (EPRE) -79.16 dBm/SCS
Cell
SCS 30 kHz
UL BW 90 MHz
DL MIMO 1x1
DL Antenna 1x1
UL MIMO 1x1
Tx/Rx Res. DL & UL
P-Max OFF
p-NR-FR1 OFF
p-UE-FR1 OFF
Addi. P-Max OFF
EIP Auto
Addi. SEM NS_01
DL Scheduler
UL Scheduler
Blind Handover
Channel
PRACH
Test Case Params
‹ Advanced
Connect
Disconnect
Aggregate
Load Configuration
Save Configuration
Preset
Local
Ready
BSE:CONNect
Copy
Current Log
2025-06-10 11:48:09

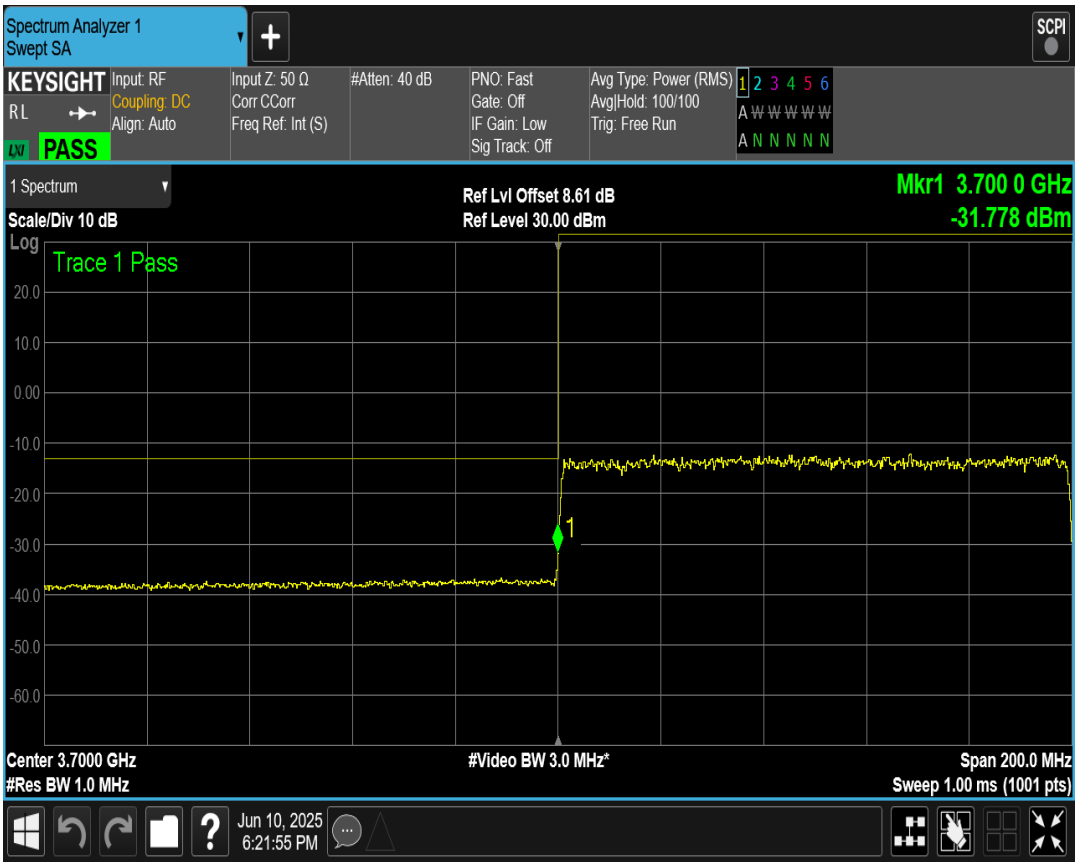
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3700-3980)	30	10	647000	24@0	CP_QPSK	3698.68	-46.53	-13	PASS
n77(3700-3980)	30	10	647000	1@0	CP_QPSK	3699.90	-40.61	-13	PASS
n77(3700-3980)	30	10	647000	1@23	CP_QPSK	3691.94	-43.72	-13	PASS
n77(3700-3980)	30	10	665000	24@0	CP_QPSK	3982.22	-47.28	-13	PASS
n77(3700-3980)	30	10	665000	1@0	CP_QPSK	3986.46	-44.25	-13	PASS
n77(3700-3980)	30	10	665000	1@23	CP_QPSK	3980.08	-43.24	-13	PASS
n77(3700-3980)	30	50	648334	133@0	CP_QPSK	3686.60	-39.90	-13	PASS
n77(3700-3980)	30	50	648334	1@0	CP_QPSK	3700.00	-42.86	-13	PASS
n77(3700-3980)	30	50	648334	1@132	CP_QPSK	3698.60	-43.89	-13	PASS
n77(3700-3980)	30	50	663666	133@0	CP_QPSK	3982.90	-40.49	-13	PASS
n77(3700-3980)	30	50	663666	1@0	CP_QPSK	3985.40	-44.65	-13	PASS
n77(3700-3980)	30	50	663666	1@132	CP_QPSK	3980.00	-42.96	-13	PASS
n77(3700-3980)	30	100	650000	273@0	CP_QPSK	3700.00	-31.77	-13	PASS
n77(3700-3980)	30	100	650000	1@0	CP_QPSK	3700.00	-39.35	-13	PASS
n77(3700-3980)	30	100	650000	1@272	CP_QPSK	3698.60	-44.04	-13	PASS
n77(3700-3980)	30	100	662000	273@0	CP_QPSK	3980.00	-28.40	-13	PASS
n77(3700-3980)	30	100	662000	1@0	CP_QPSK	3984.80	-44.94	-13	PASS
n77(3700-3980)	30	100	662000	1@272	CP_QPSK	3980.00	-43.11	-13	PASS

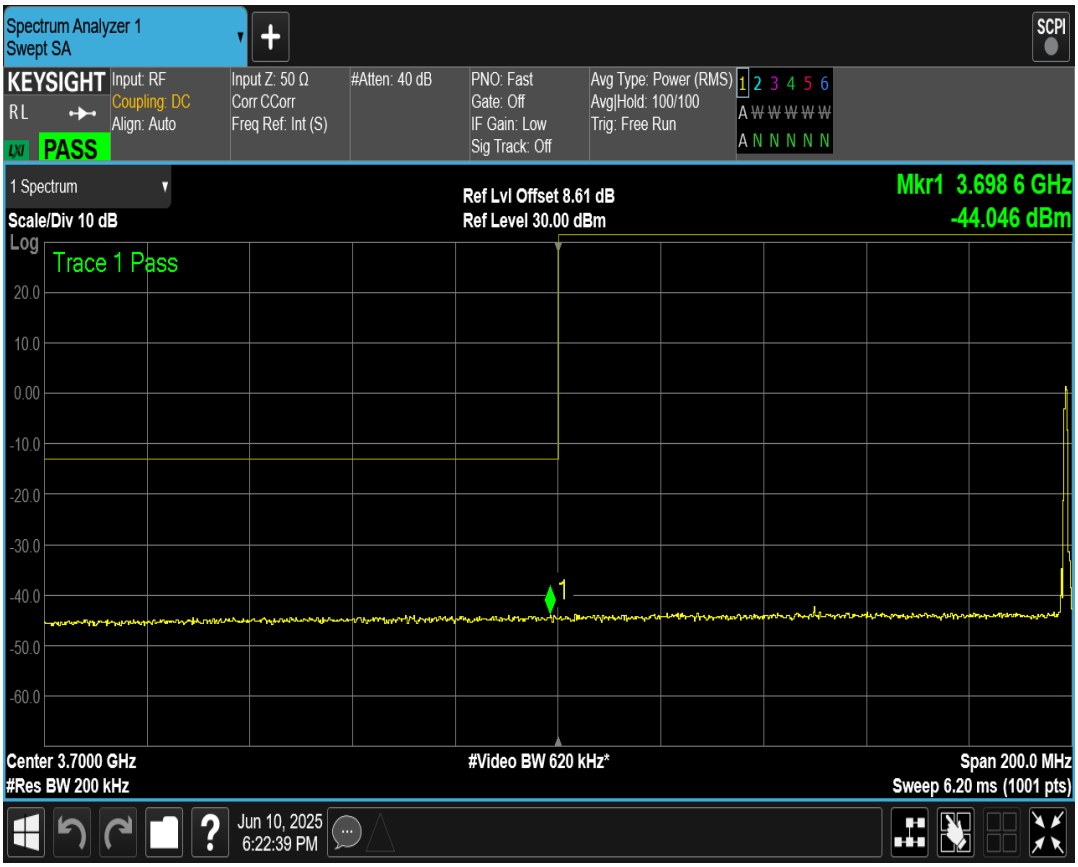
n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=650000 RB=1@0



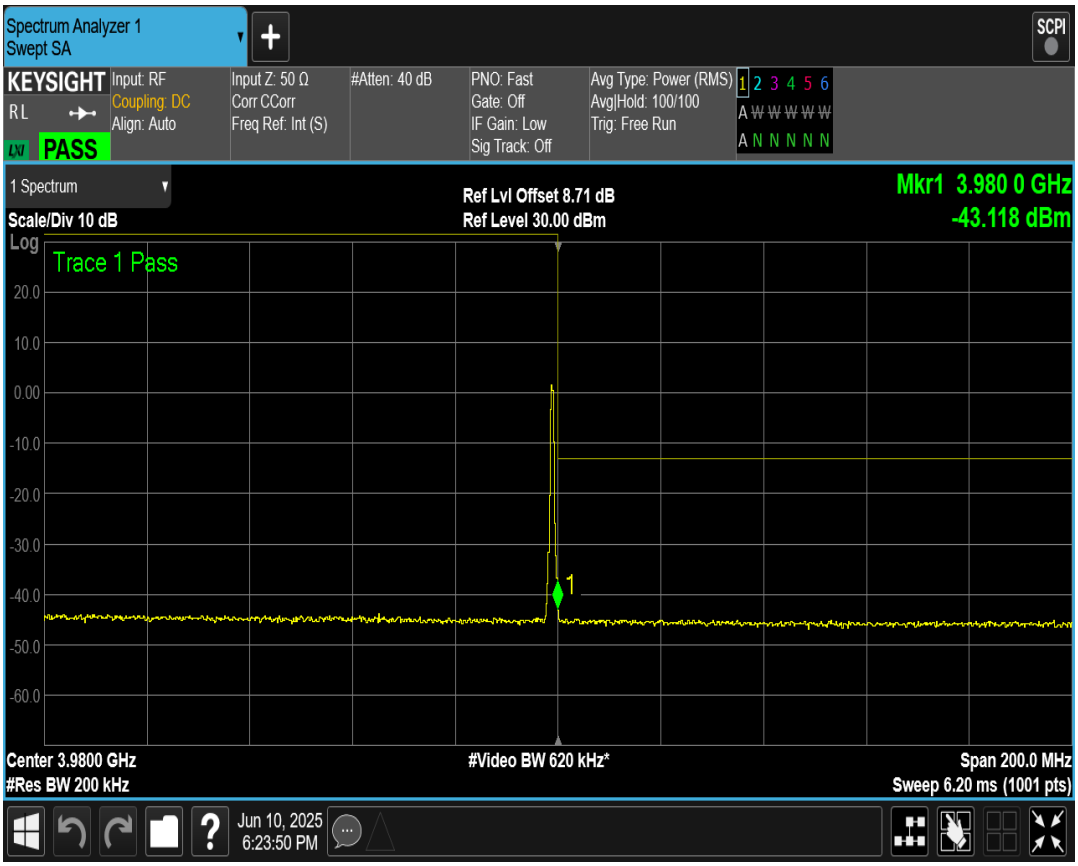
n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=650000 RB=273@0



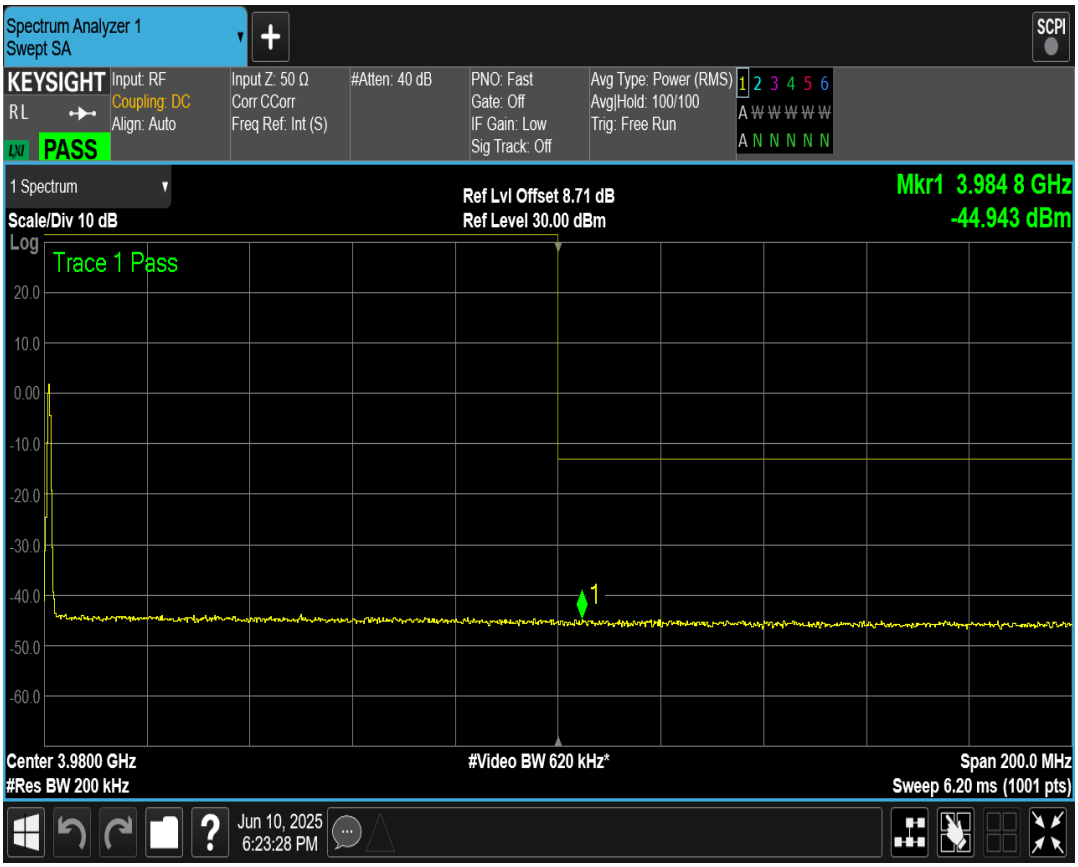
n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=650000 RB=1@272



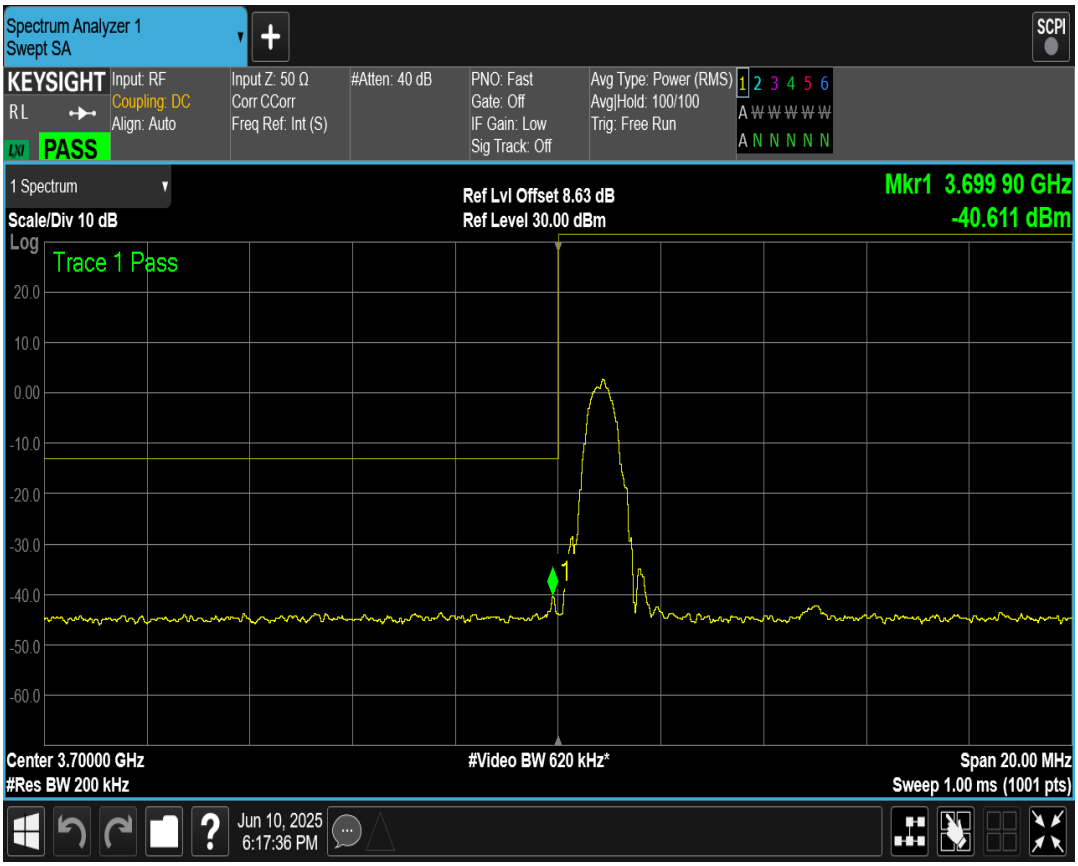
n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=662000 RB=1@272



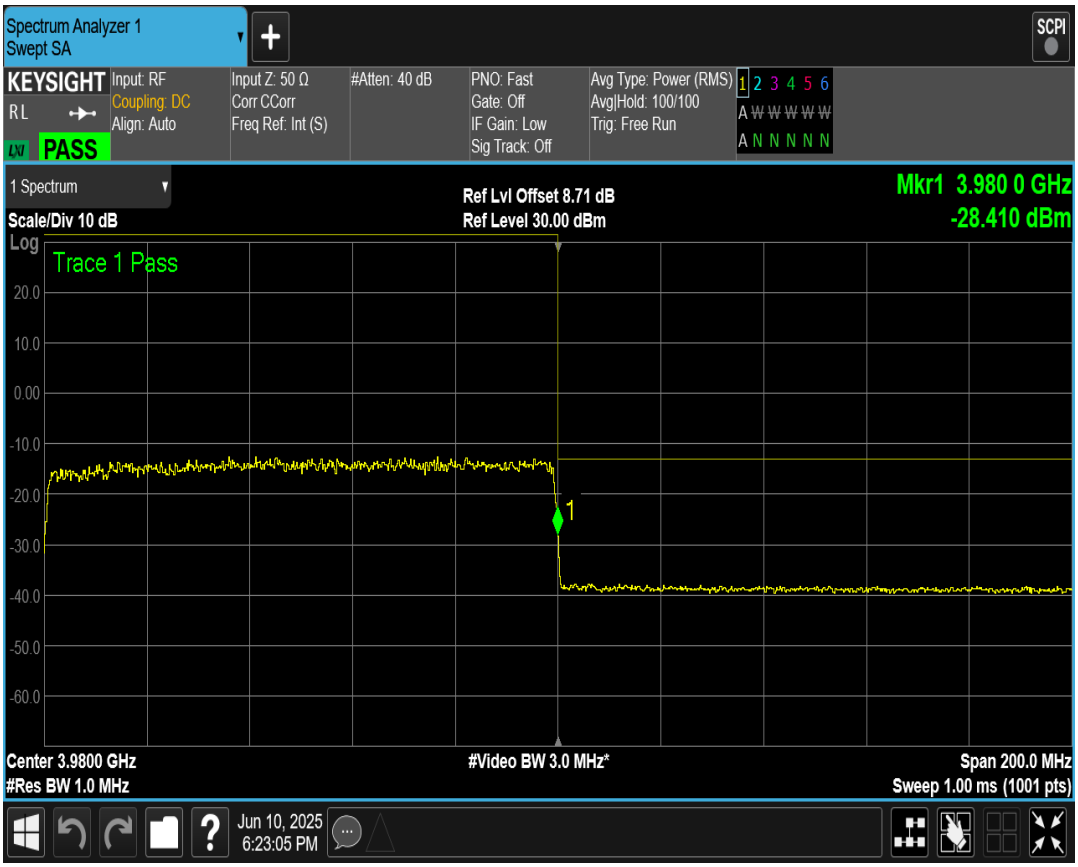
n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=662000 RB=1@0



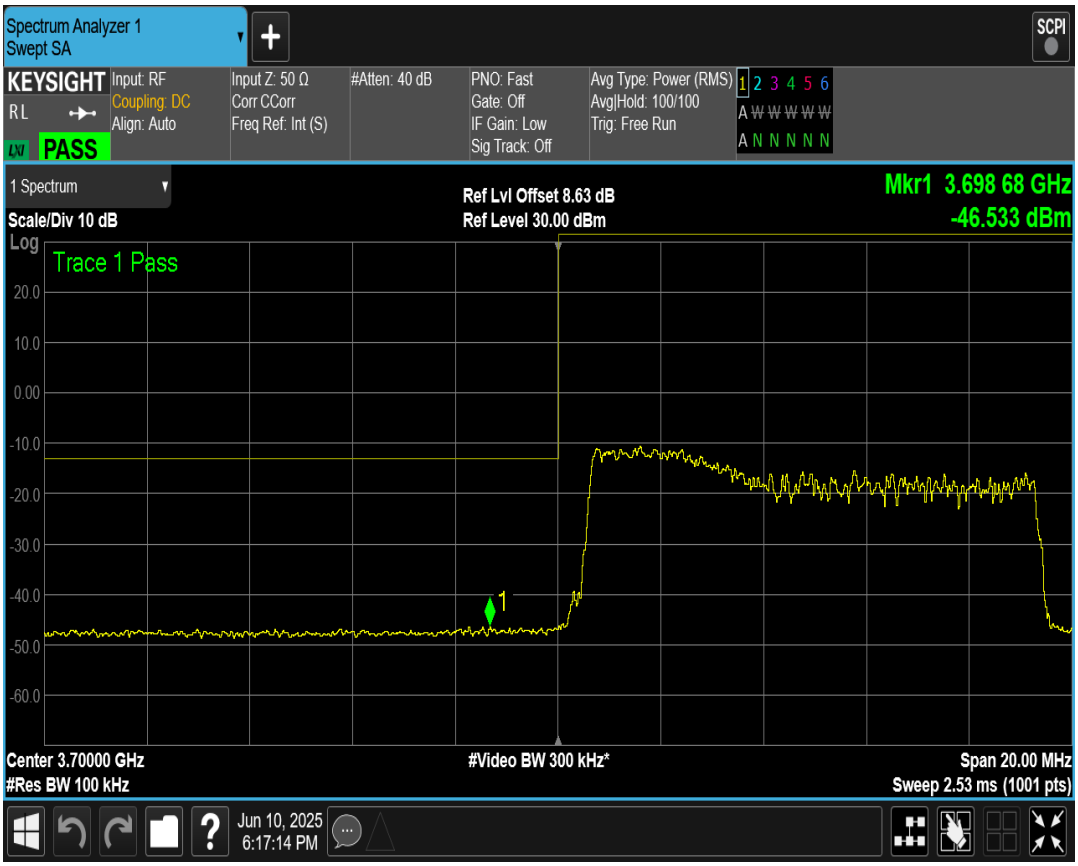
n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=647000 RB=1@0



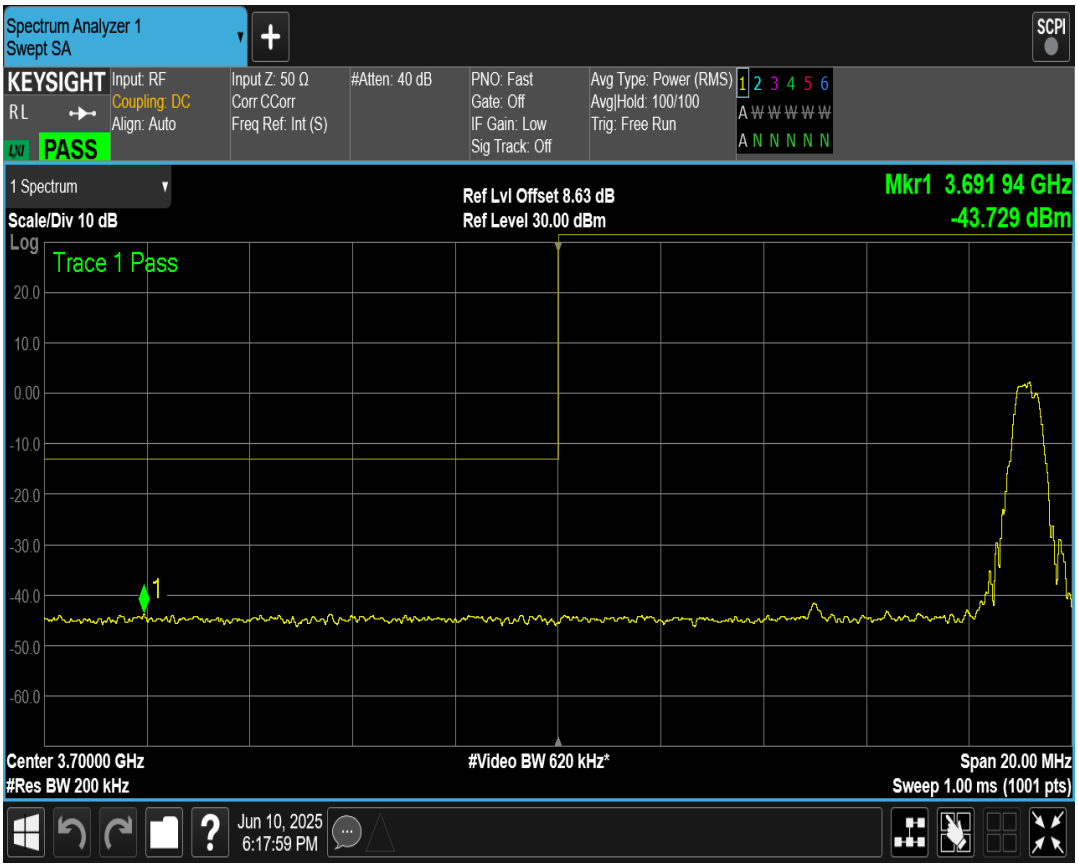
n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=662000 RB=273@0



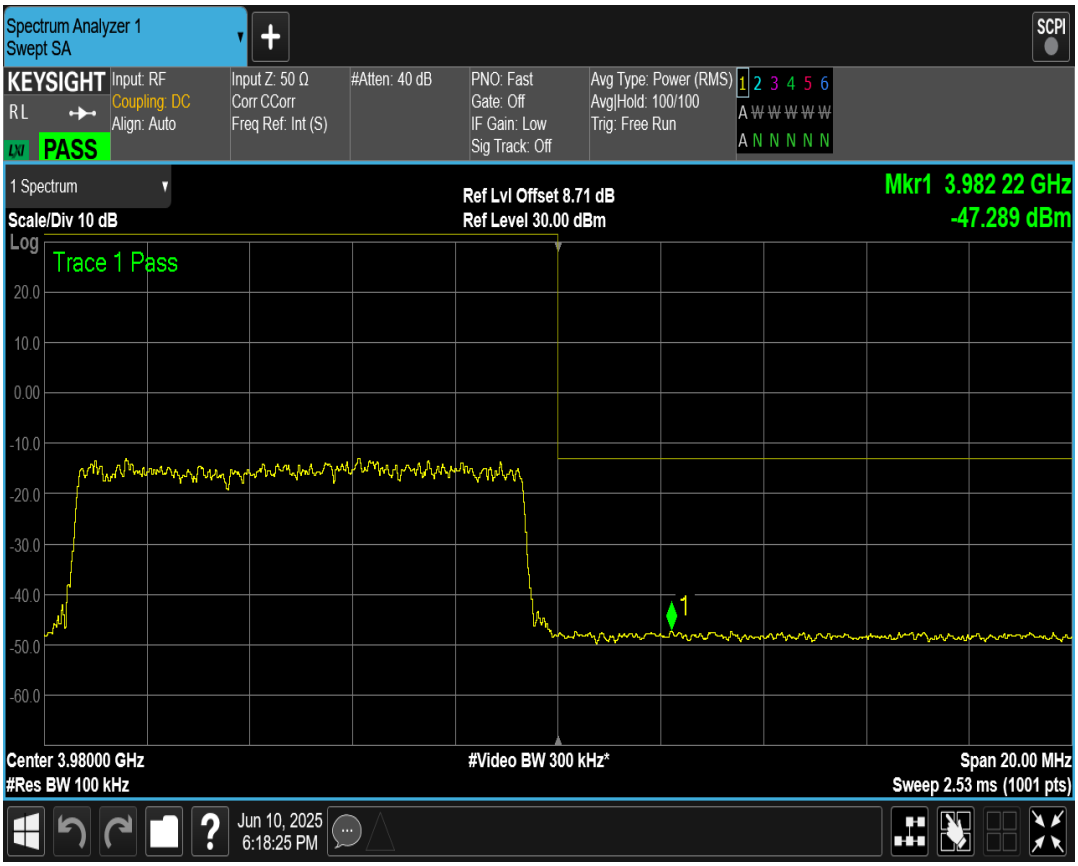
n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=647000 RB=24@0



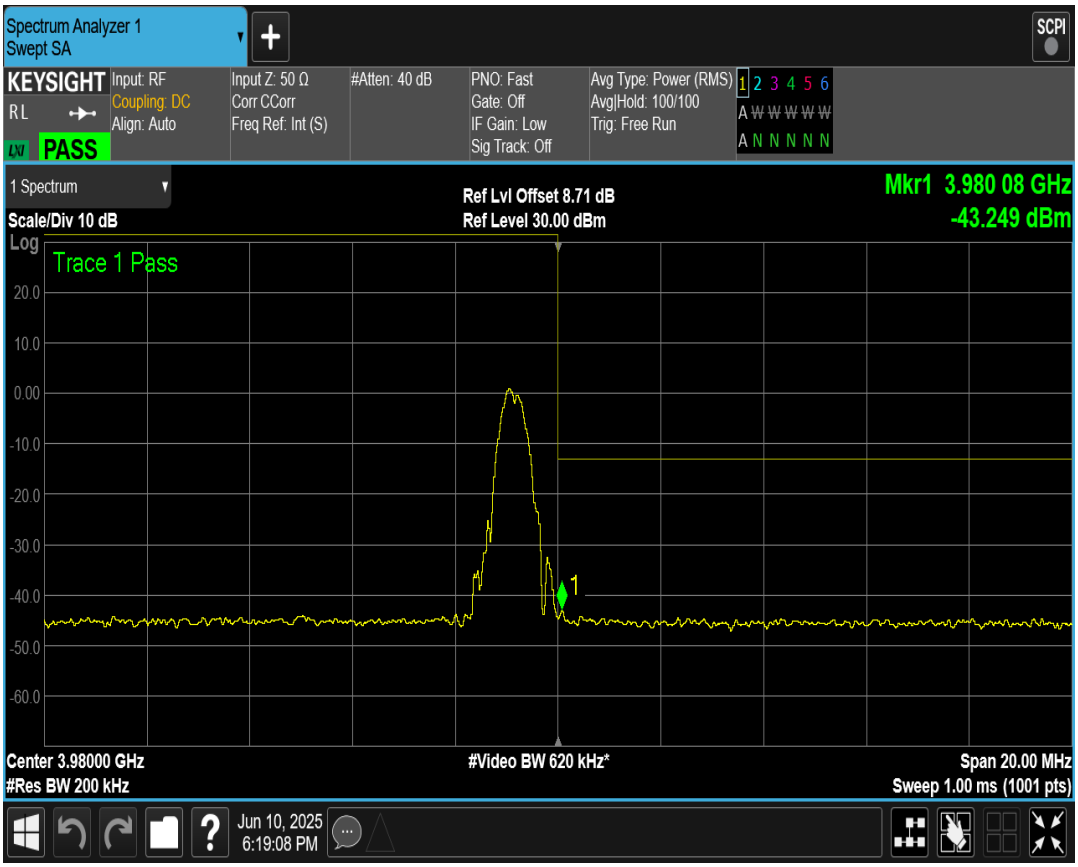
n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=647000 RB=1@23



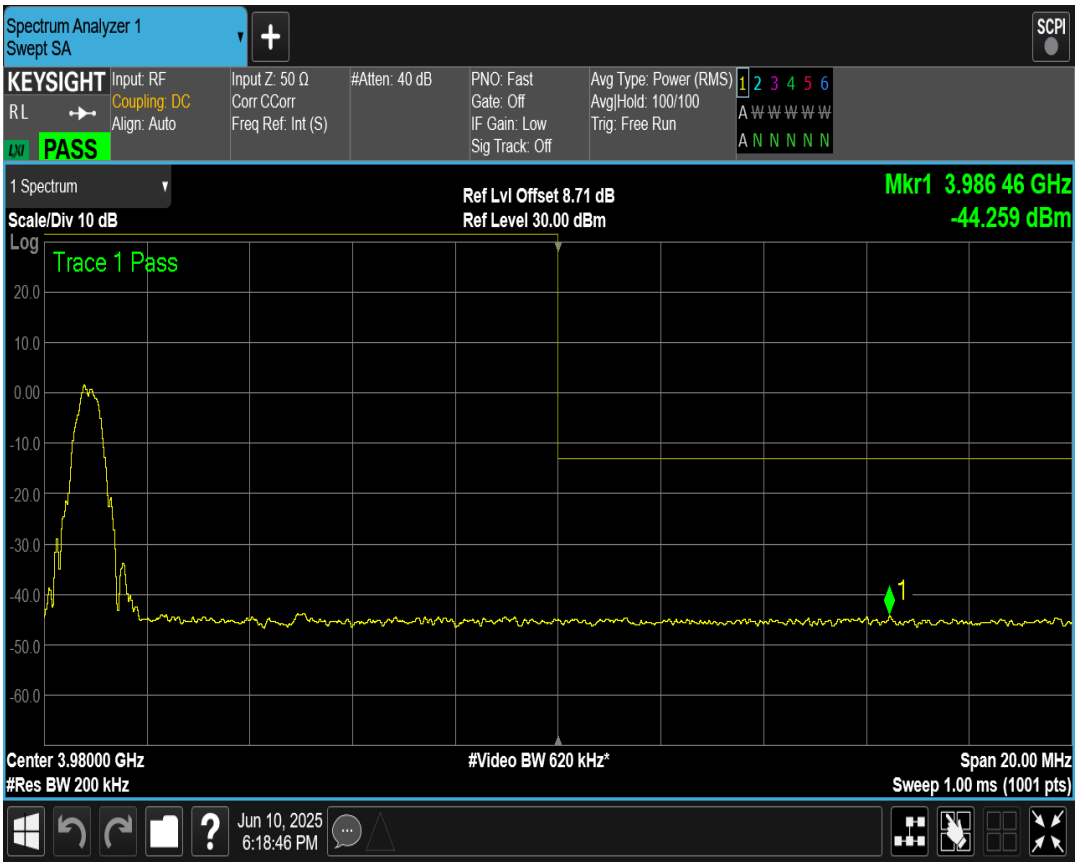
n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=665000 RB=24@0



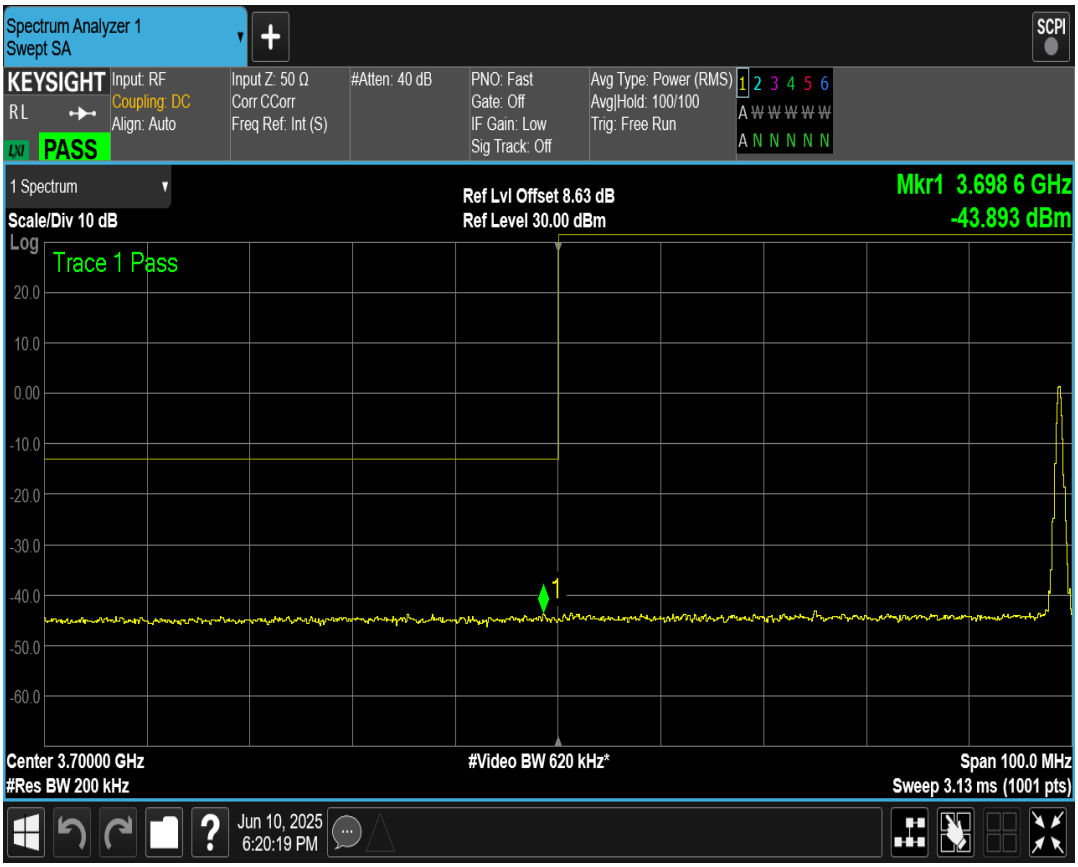
n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=665000 RB=1@23



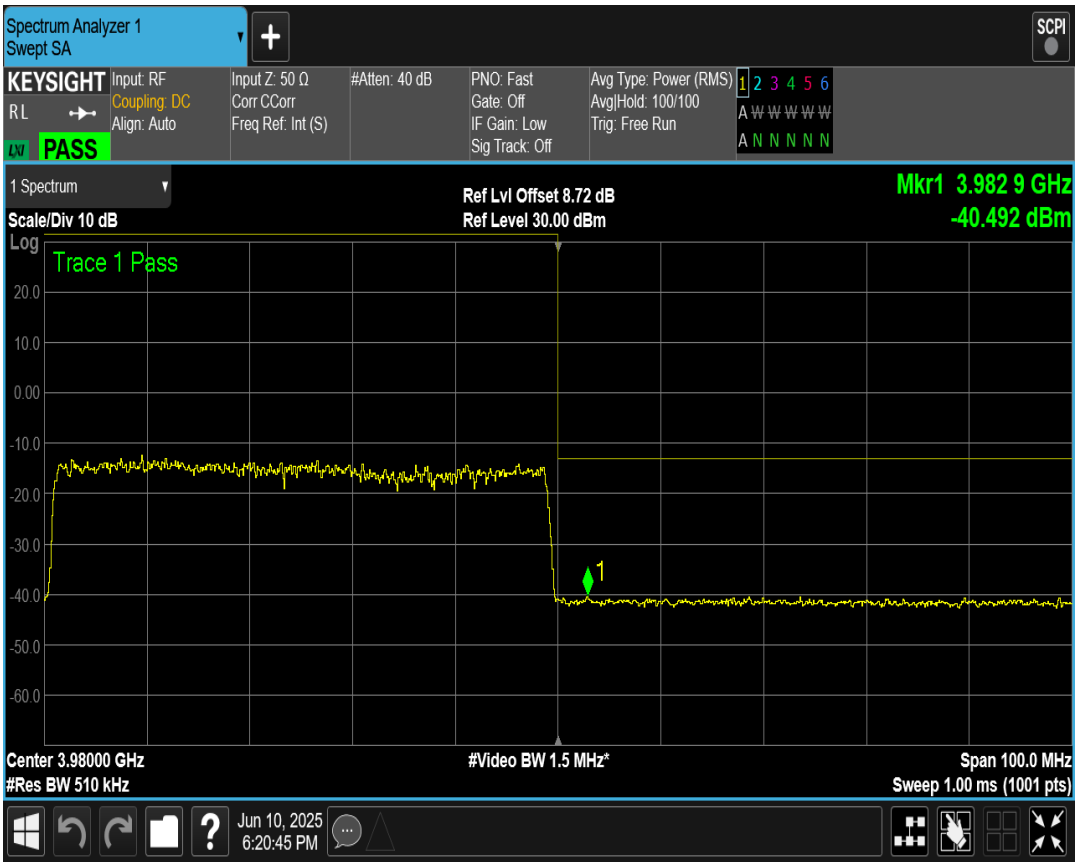
n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=665000 RB=1@0



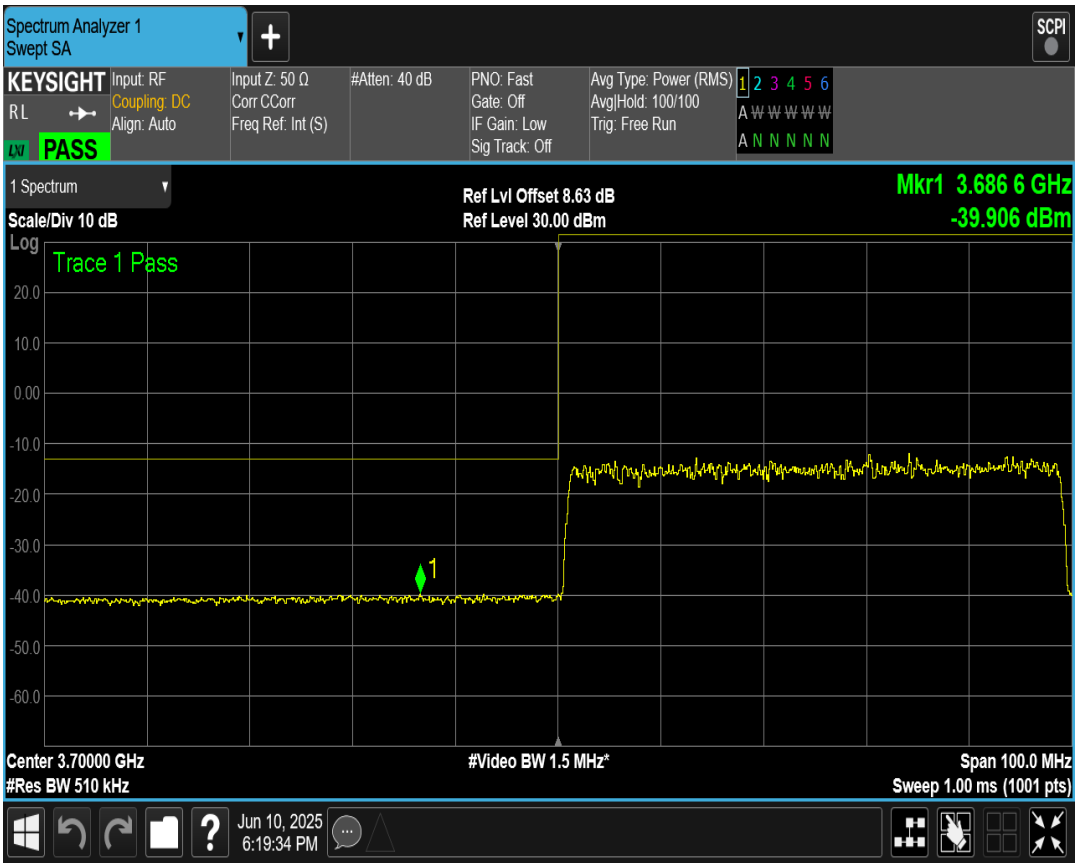
n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=648334 RB=1@132



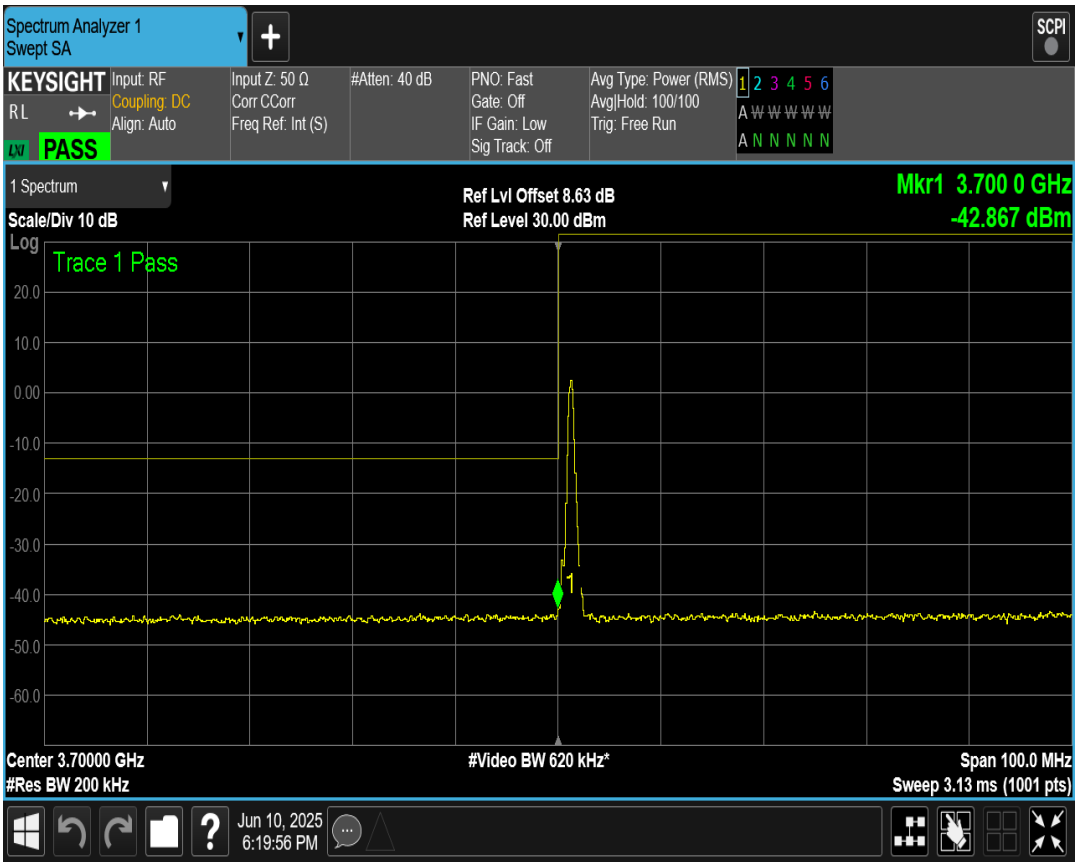
n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=663666 RB=133@0



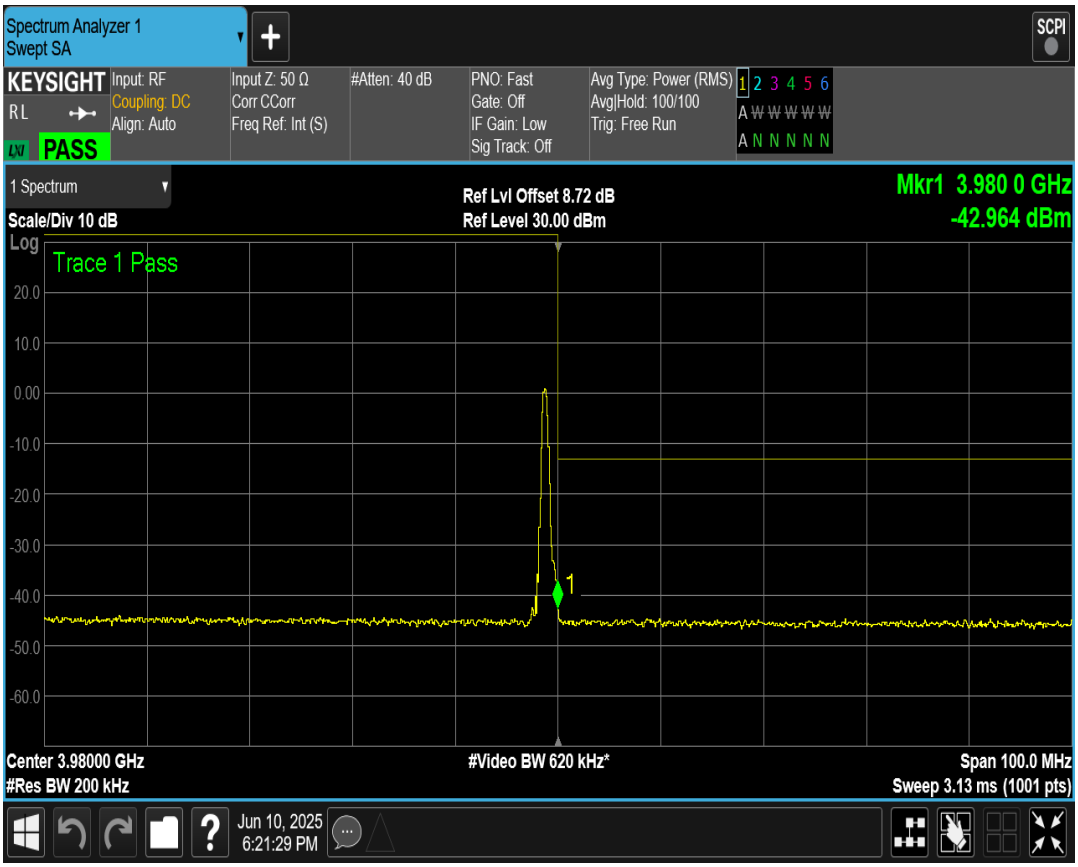
n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=648334 RB=133@0



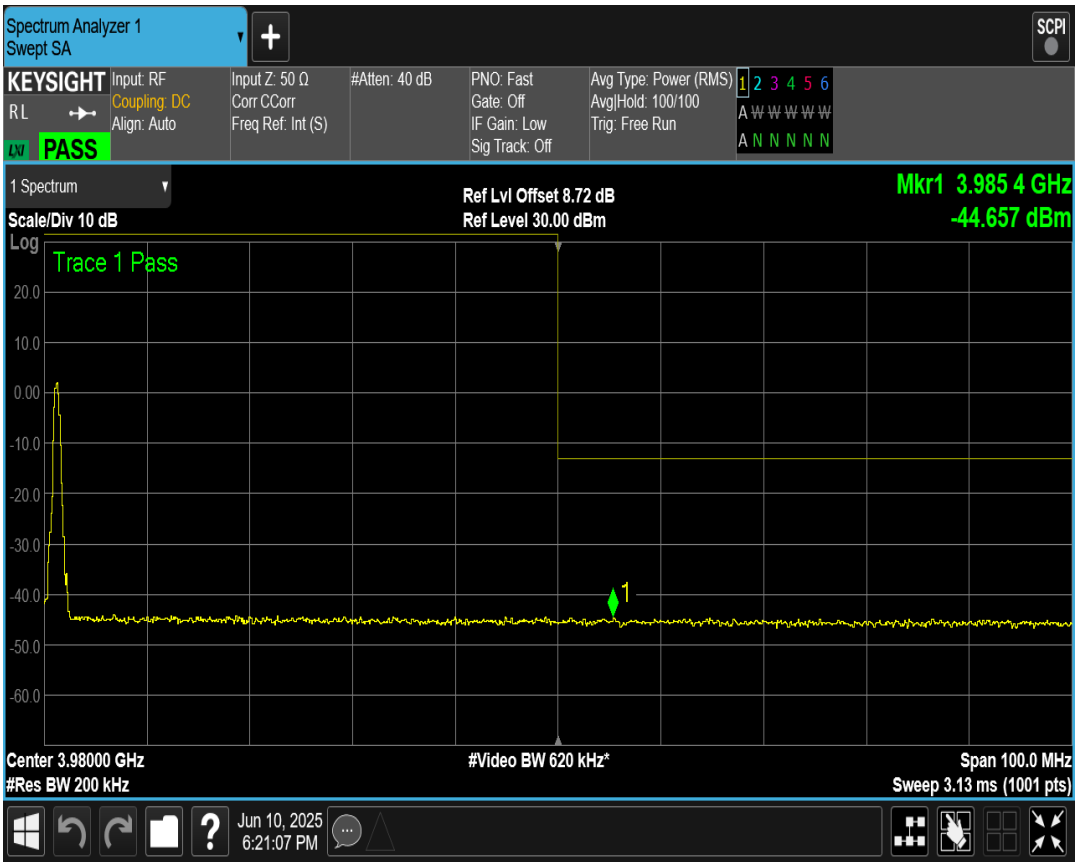
n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=648334 RB=1@0



n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=663666 RB=1@132



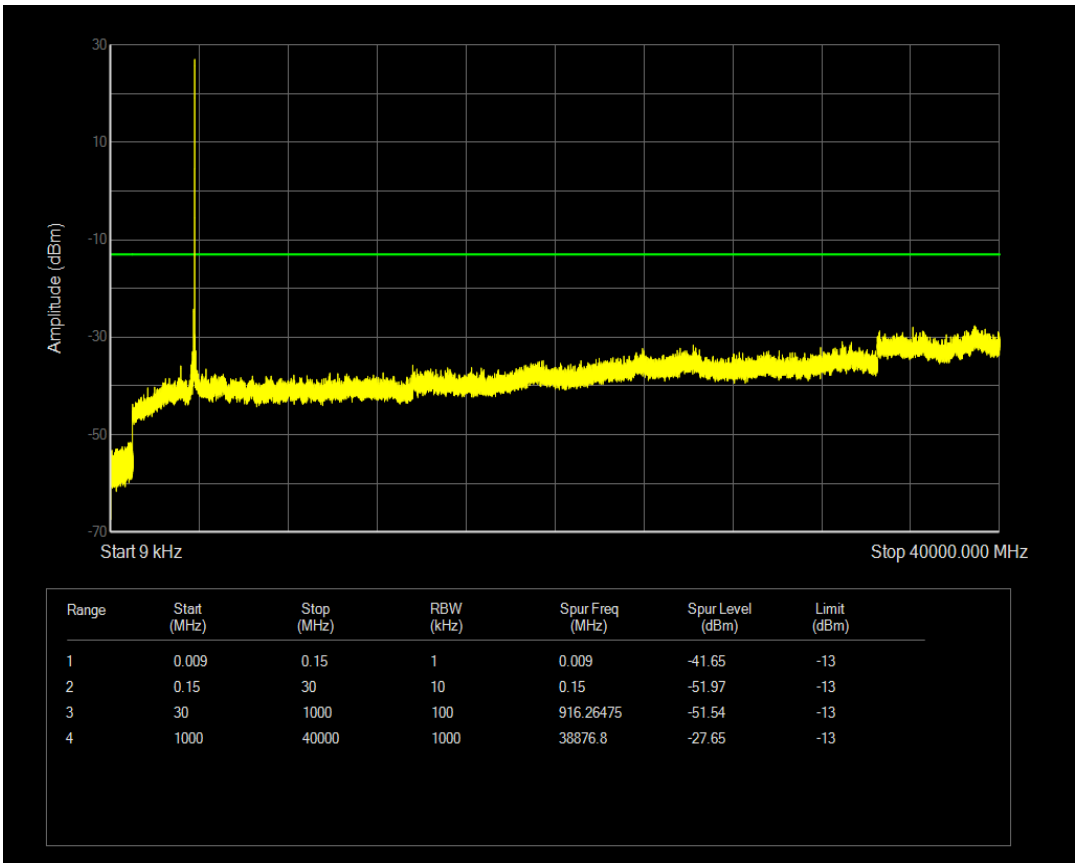
n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=663666 RB=1@0



6 Out-of-band emissions for NR FR1

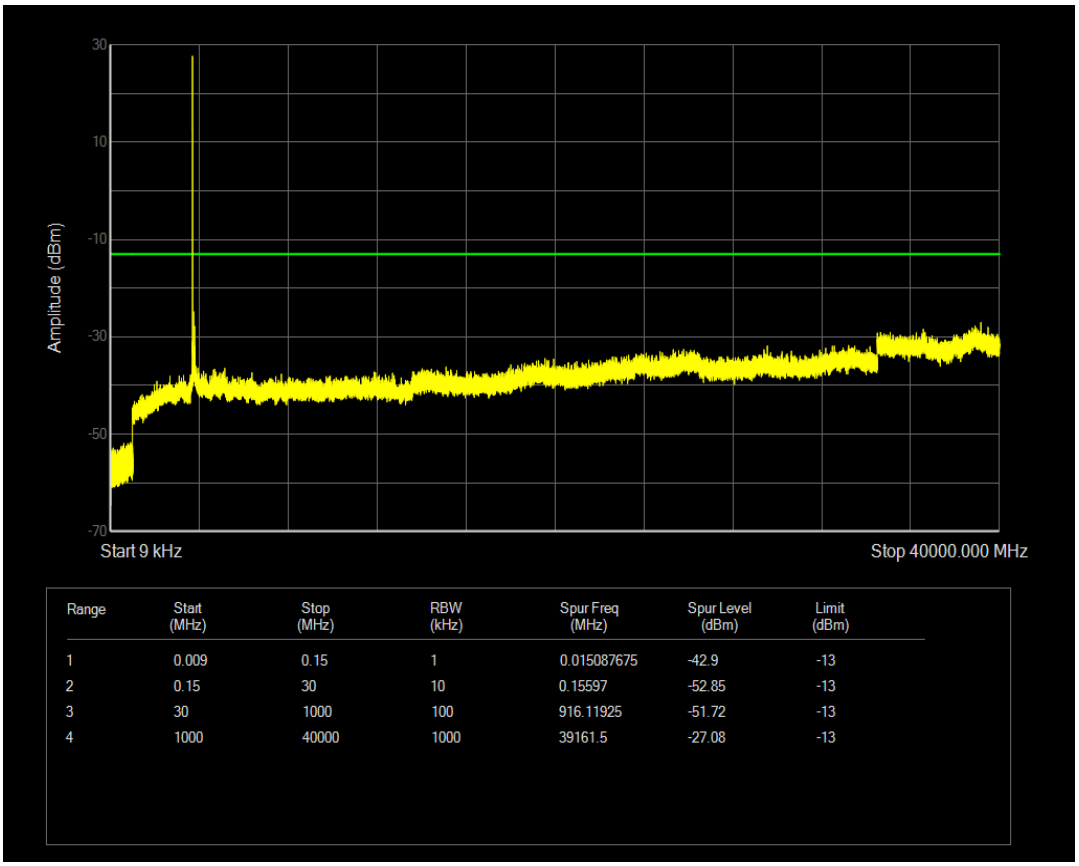
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3700-3980)	30	10	647000	24@0	CP_QPSK	38854.38	-28.12	-13	PASS
n77(3700-3980)	30	10	647000	1@0	CP_QPSK	38833.90	-27.44	-13	PASS
n77(3700-3980)	30	10	647000	1@23	CP_QPSK	38780.28	-27.70	-13	PASS
n77(3700-3980)	30	10	665000	24@0	CP_QPSK	38565.78	-27.59	-13	PASS
n77(3700-3980)	30	10	665000	1@0	CP_QPSK	7942.00	-27.90	-13	PASS
n77(3700-3980)	30	10	665000	1@23	CP_QPSK	35469.18	-27.58	-13	PASS
n77(3700-3980)	30	50	648334	133@0	CP_QPSK	38900.20	-27.07	-13	PASS
n77(3700-3980)	30	50	648334	1@0	CP_QPSK	39343.83	-26.96	-13	PASS
n77(3700-3980)	30	50	648334	1@132	CP_QPSK	38868.03	-27.88	-13	PASS
n77(3700-3980)	30	50	663666	133@0	CP_QPSK	38941.15	-27.24	-13	PASS
n77(3700-3980)	30	50	663666	1@0	CP_QPSK	38920.68	-28.22	-13	PASS
n77(3700-3980)	30	50	663666	1@132	CP_QPSK	39024.03	-27.89	-13	PASS
n77(3700-3980)	30	100	650000	273@0	CP_QPSK	38928.48	-27.81	-13	PASS
n77(3700-3980)	30	100	650000	1@0	CP_QPSK	39161.50	-27.08	-13	PASS
n77(3700-3980)	30	100	650000	1@272	CP_QPSK	38876.80	-27.65	-13	PASS
n77(3700-3980)	30	100	662000	273@0	CP_QPSK	38802.70	-27.48	-13	PASS
n77(3700-3980)	30	100	662000	1@0	CP_QPSK	38855.35	-27.69	-13	PASS
n77(3700-3980)	30	100	662000	1@272	CP_QPSK	38870.95	-27.40	-13	PASS

n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=650000 RB=1@272



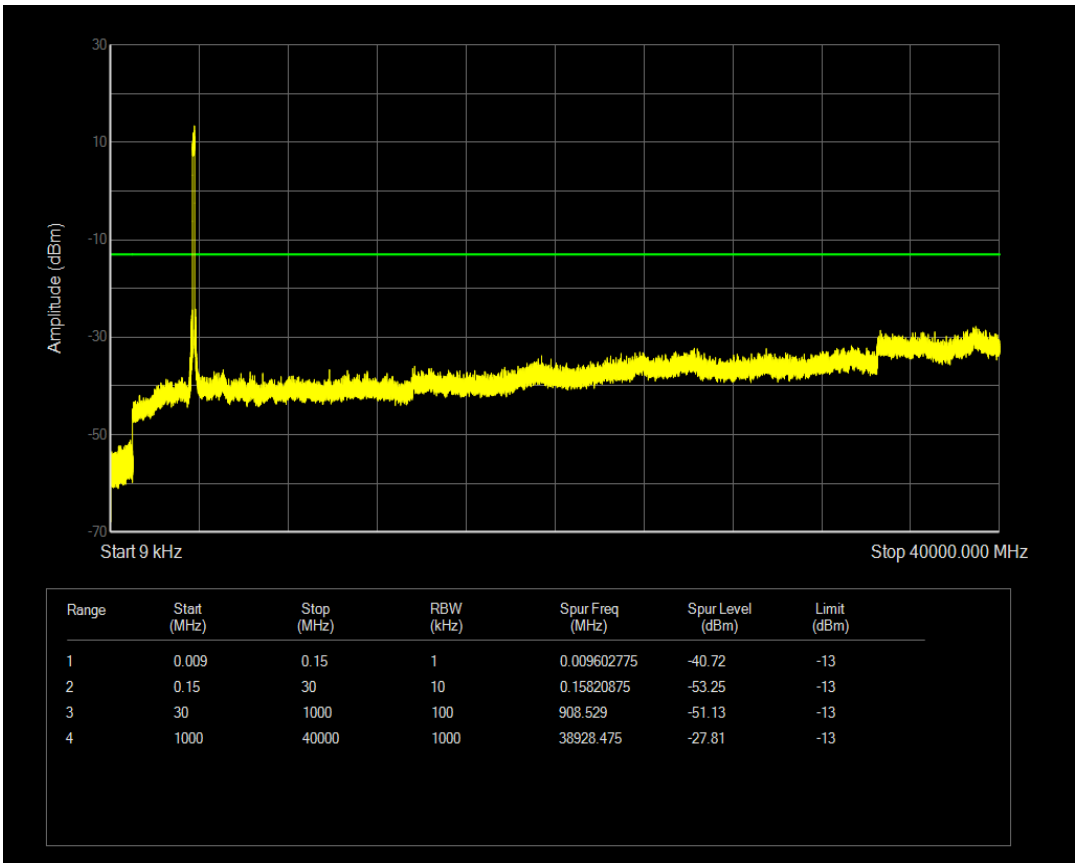
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-41.65	-13
2	0.15	30	10	0.15	-51.97	-13
3	30	1000	100	916.26475	-51.54	-13
4	1000	40000	1000	38876.8	-27.65	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=650000 RB=1@0



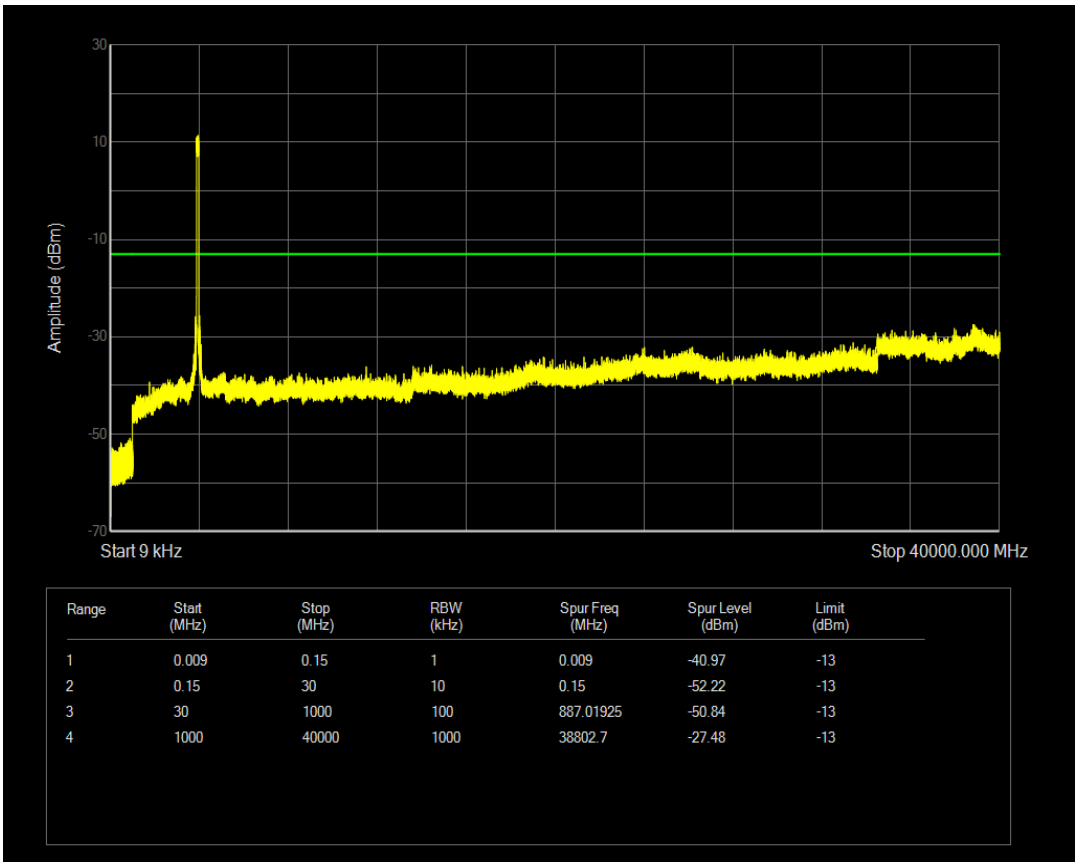
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.015087675	-42.9	-13
2	0.15	30	10	0.15597	-52.85	-13
3	30	1000	100	916.11925	-51.72	-13
4	1000	40000	1000	39161.5	-27.08	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=650000 RB=273@0



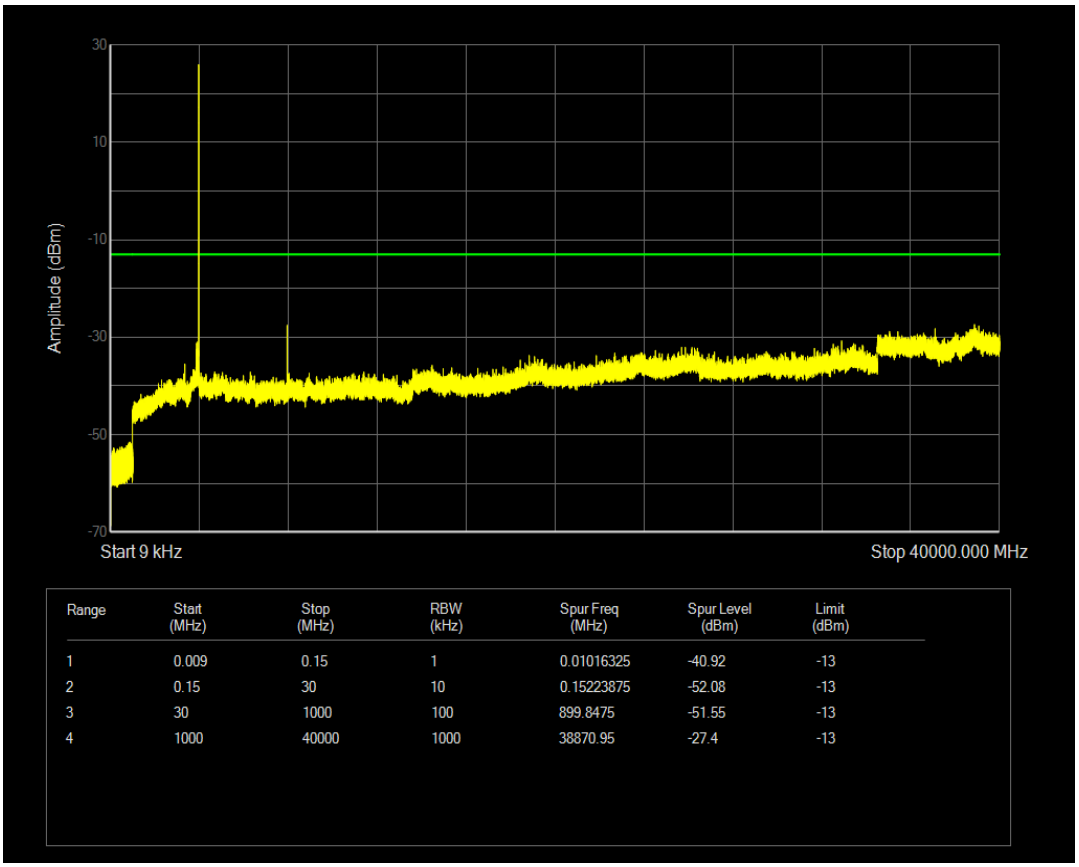
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009602775	-40.72	-13
2	0.15	30	10	0.15820875	-53.25	-13
3	30	1000	100	908.529	-51.13	-13
4	1000	40000	1000	38928.475	-27.81	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=662000 RB=273@0



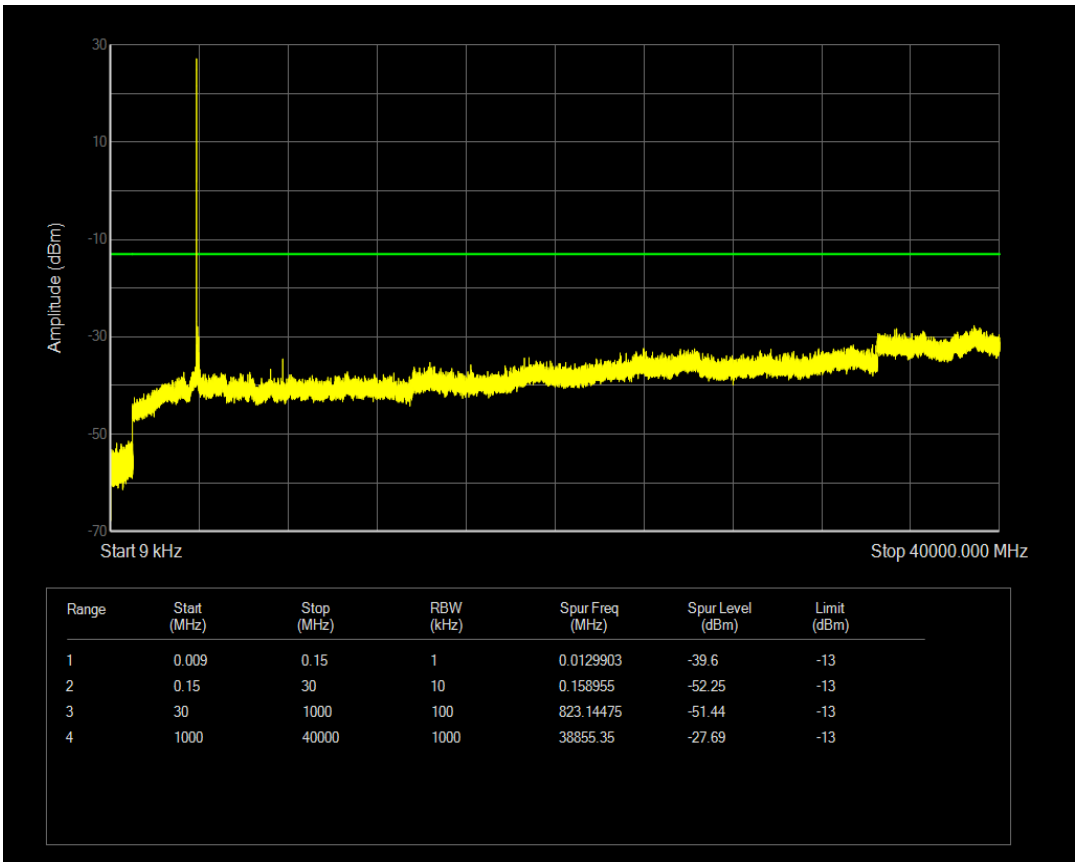
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-40.97	-13
2	0.15	30	10	0.15	-52.22	-13
3	30	1000	100	887.01925	-50.84	-13
4	1000	40000	1000	38802.7	-27.48	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=662000 RB=1@272



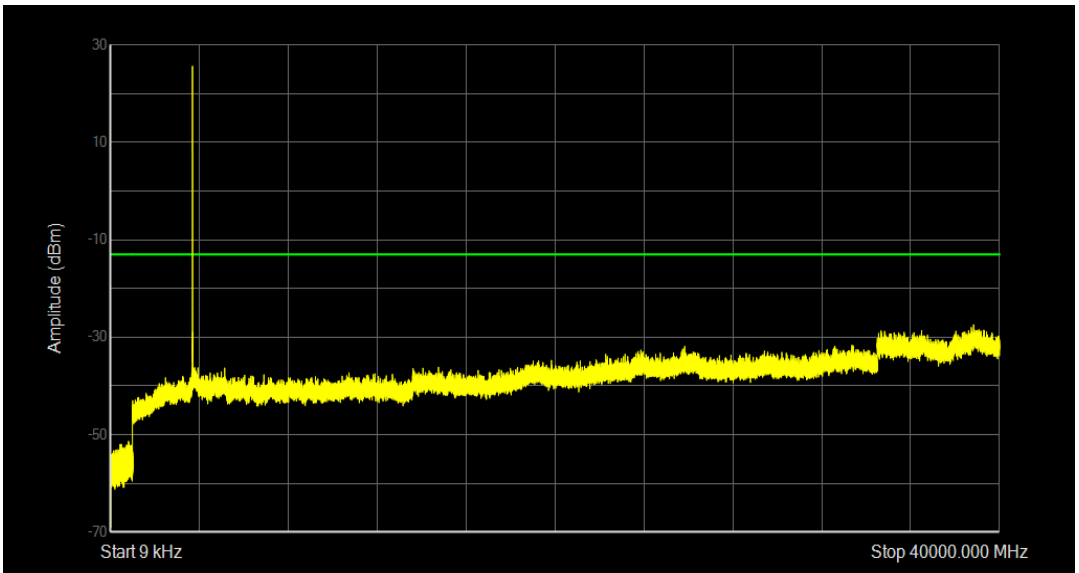
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01016325	-40.92	-13
2	0.15	30	10	0.15223875	-52.08	-13
3	30	1000	100	899.8475	-51.55	-13
4	1000	40000	1000	38870.95	-27.4	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=100MHz Channel=662000 RB=1@0



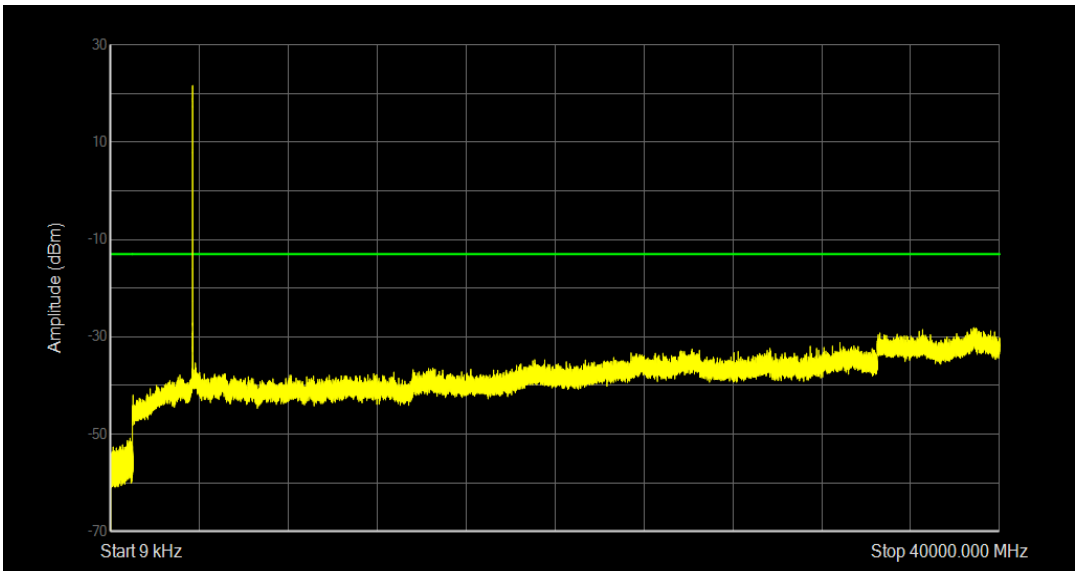
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0129903	-39.6	-13
2	0.15	30	10	0.158955	-52.25	-13
3	30	1000	100	823.14475	-51.44	-13
4	1000	40000	1000	38855.35	-27.69	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=647000 RB=1@0



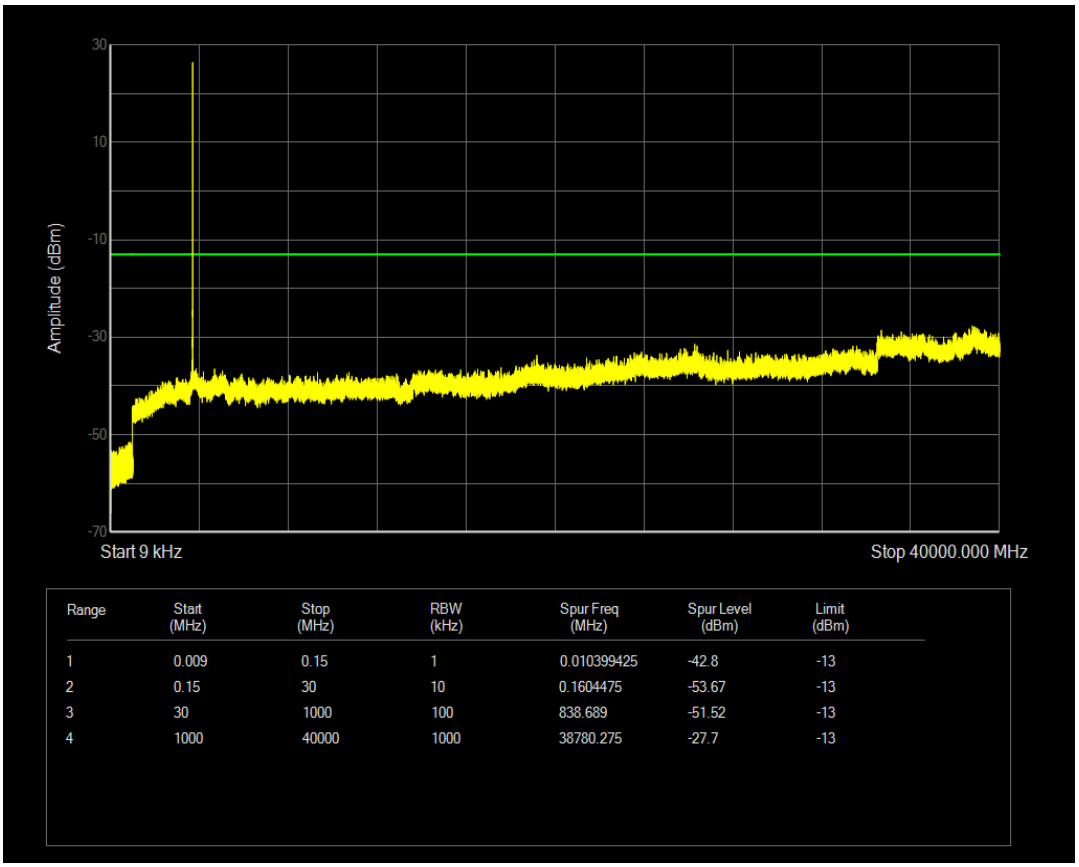
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00941595	-42.31	-13
2	0.15	30	10	0.15	-54.02	-13
3	30	1000	100	822.8295	-51.37	-13
4	1000	40000	1000	38833.9	-27.44	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=647000 RB=24@0



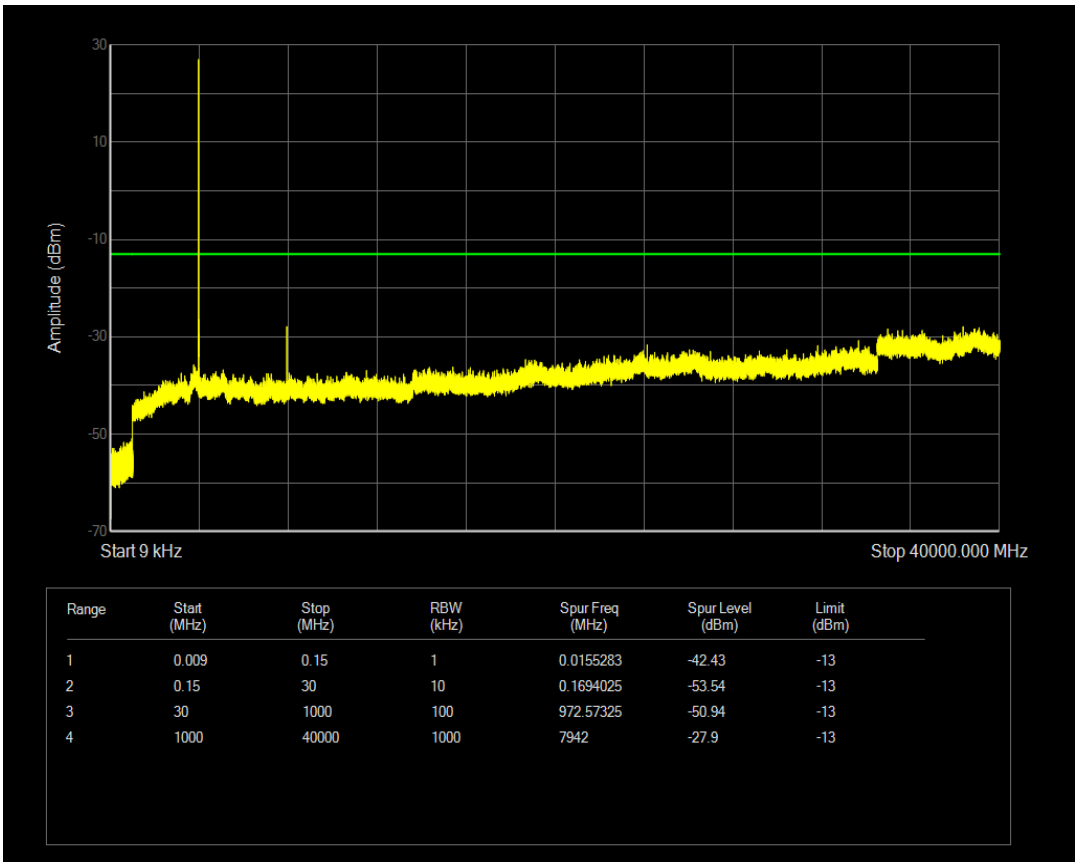
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0113124	-43.2	-13
2	0.15	30	10	0.16716375	-53.34	-13
3	30	1000	100	890.26875	-50.83	-13
4	1000	40000	1000	38854.375	-28.12	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=647000 RB=1@23



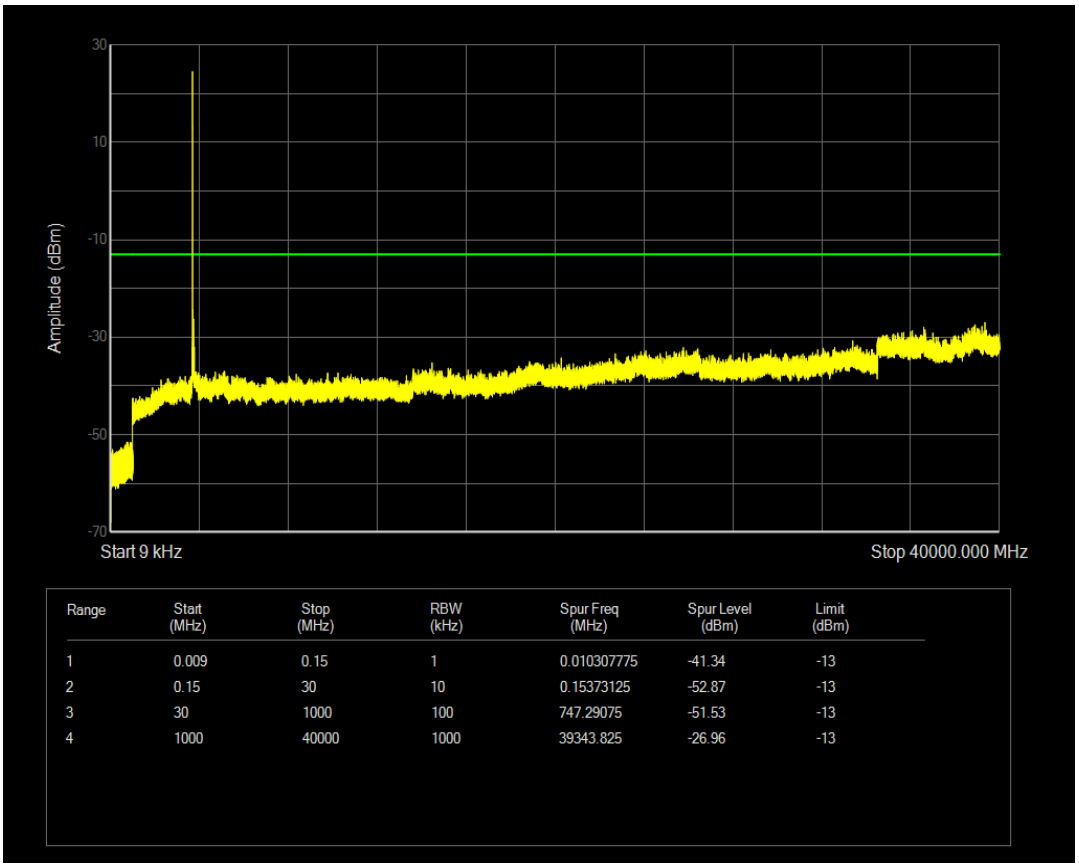
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010399425	-42.8	-13
2	0.15	30	10	0.1604475	-53.67	-13
3	30	1000	100	838.689	-51.52	-13
4	1000	40000	1000	38780.275	-27.7	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=665000 RB=1@0



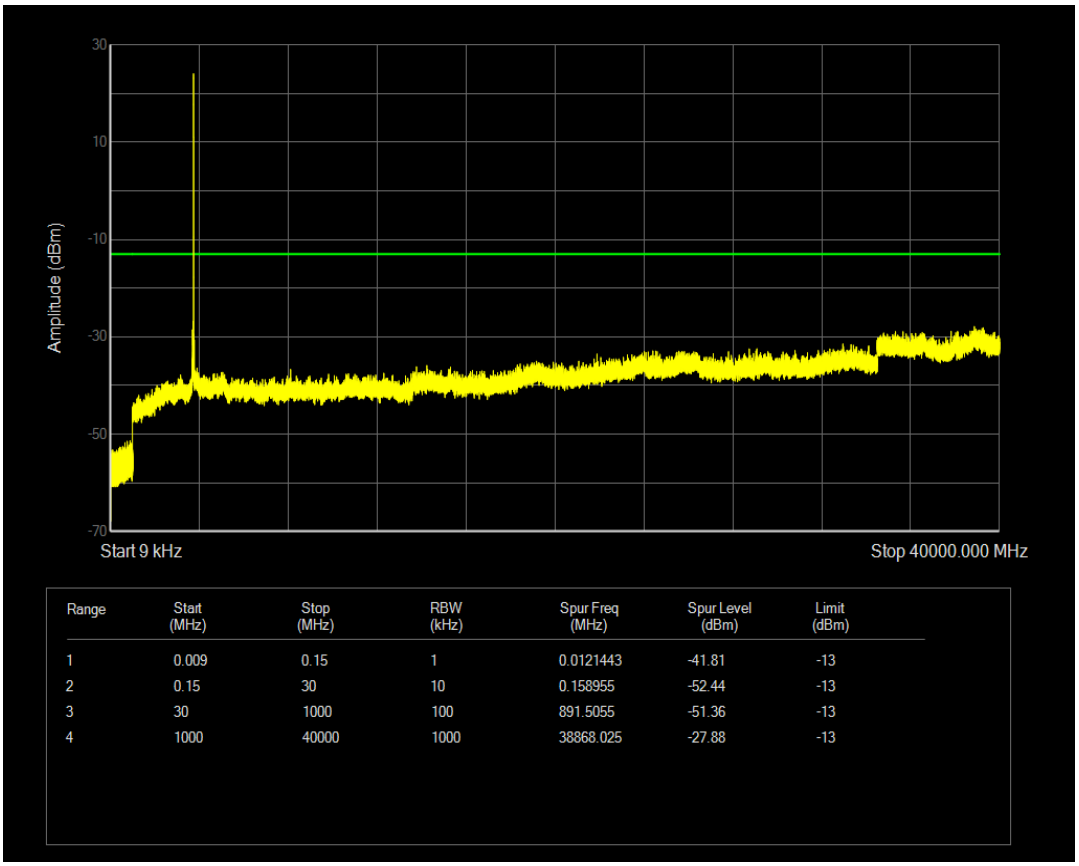
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0155283	-42.43	-13
2	0.15	30	10	0.1694025	-53.54	-13
3	30	1000	100	972.57325	-50.94	-13
4	1000	40000	1000	7942	-27.9	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=648334 RB=1@0



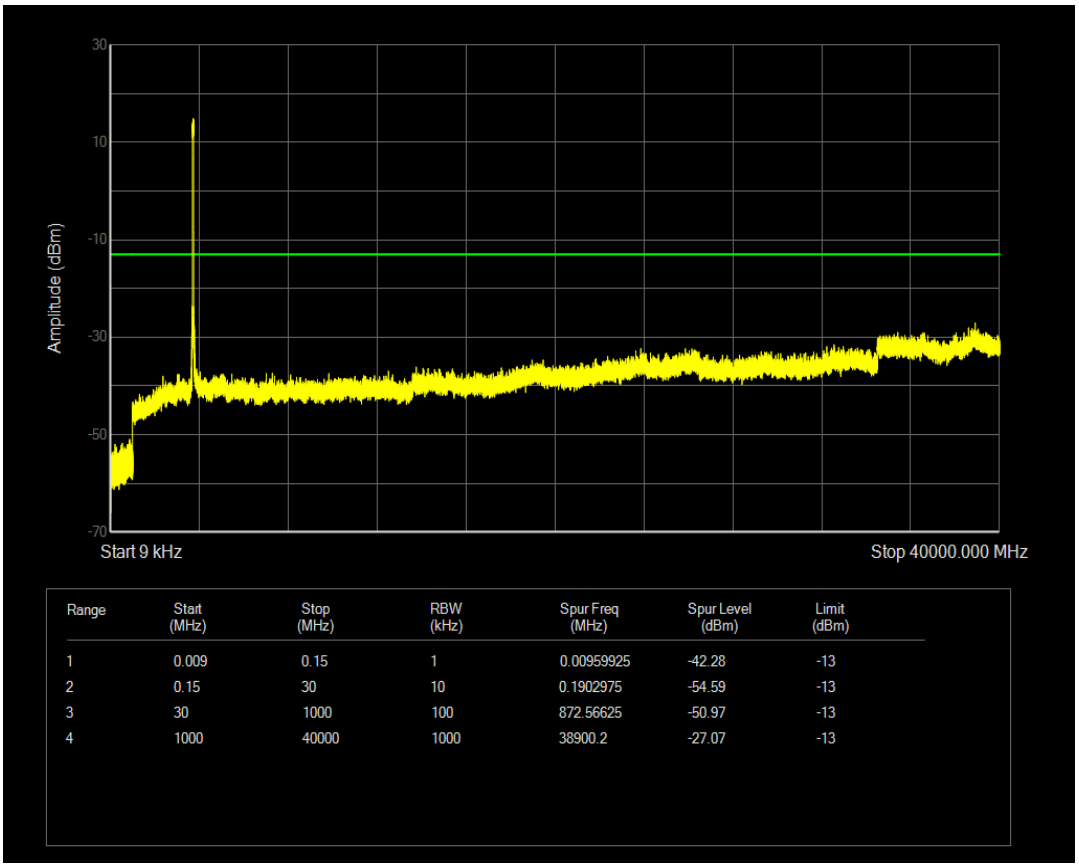
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010307775	-41.34	-13
2	0.15	30	10	0.15373125	-52.87	-13
3	30	1000	100	747.29075	-51.53	-13
4	1000	40000	1000	39343.825	-26.96	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=648334 RB=1@132



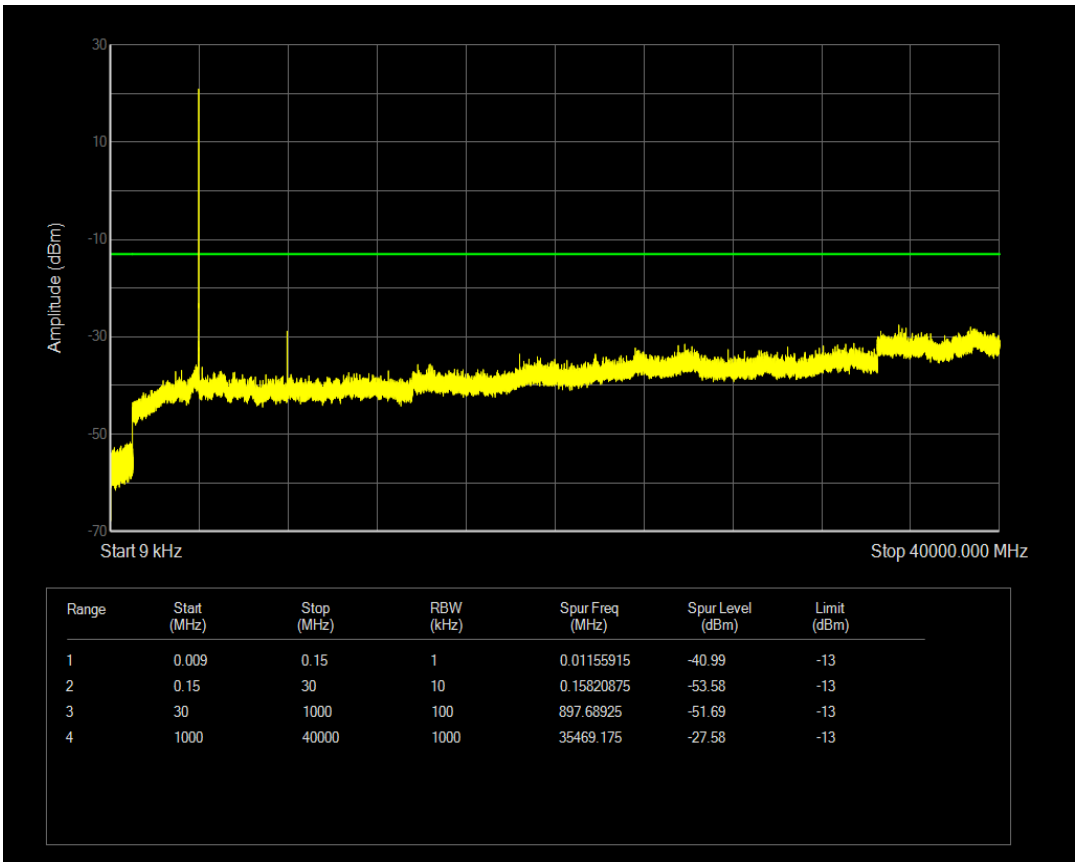
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0121443	-41.81	-13
2	0.15	30	10	0.158955	-52.44	-13
3	30	1000	100	891.5055	-51.36	-13
4	1000	40000	1000	38868.025	-27.88	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=648334 RB=133@0



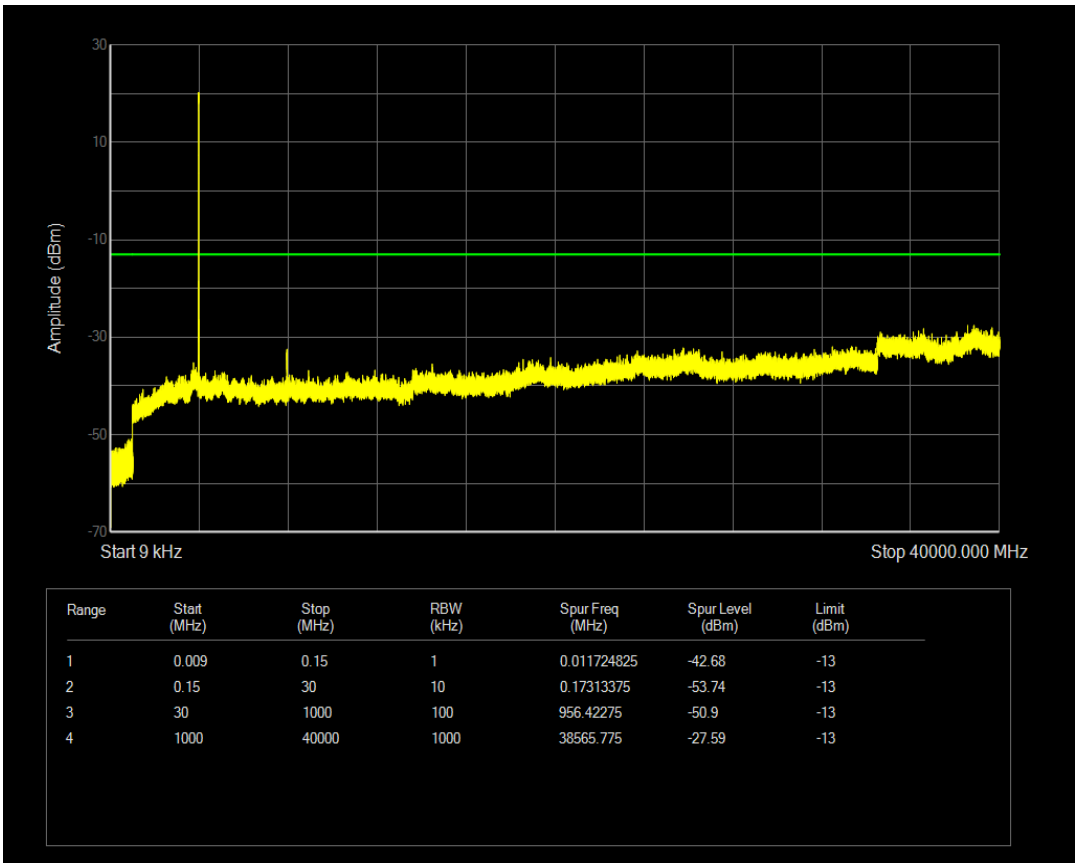
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00959925	-42.28	-13
2	0.15	30	10	0.1902975	-54.59	-13
3	30	1000	100	872.56625	-50.97	-13
4	1000	40000	1000	38900.2	-27.07	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=665000 RB=1@23



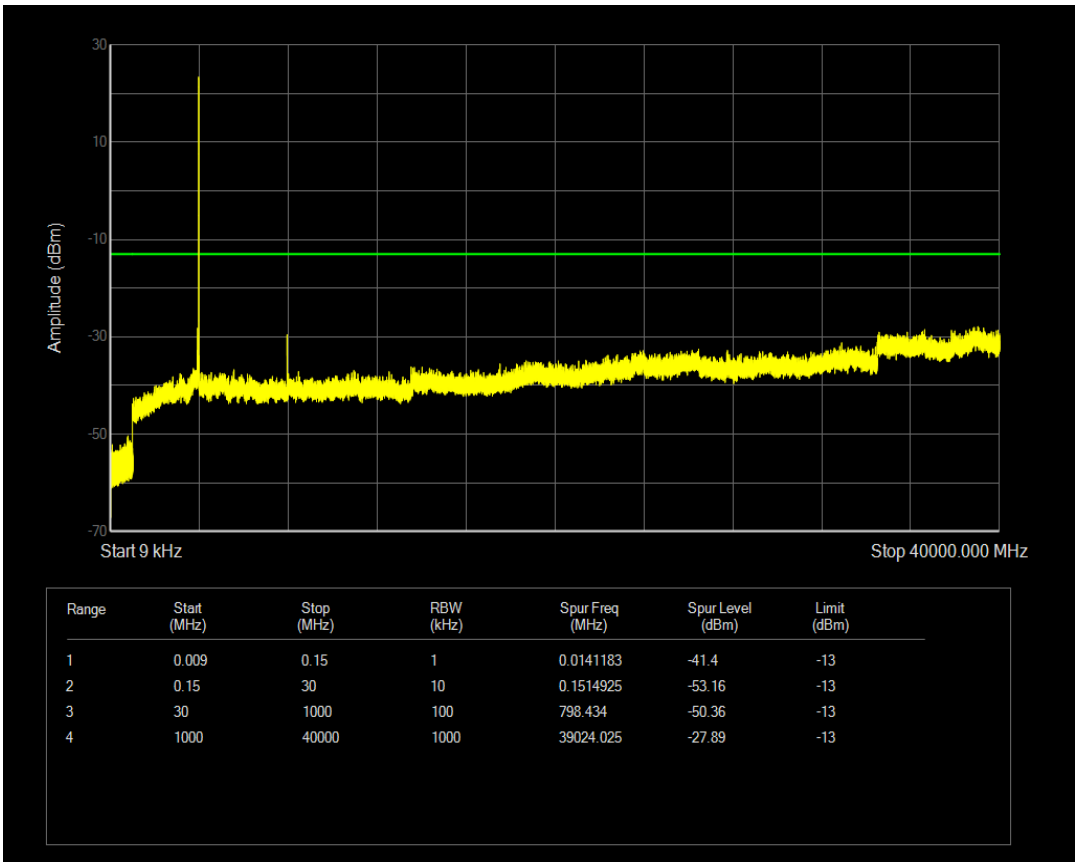
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01155915	-40.99	-13
2	0.15	30	10	0.15820875	-53.58	-13
3	30	1000	100	897.68925	-51.69	-13
4	1000	40000	1000	35469.175	-27.58	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz Channel=665000 RB=24@0



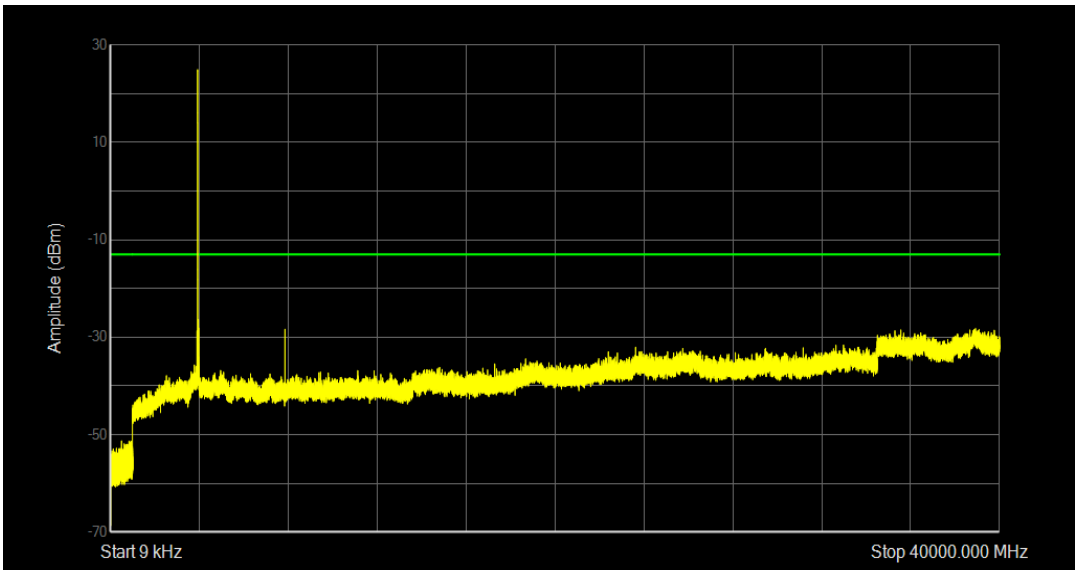
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011724825	-42.68	-13
2	0.15	30	10	0.17313375	-53.74	-13
3	30	1000	100	956.42275	-50.9	-13
4	1000	40000	1000	38565.775	-27.59	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=663666 RB=1@132



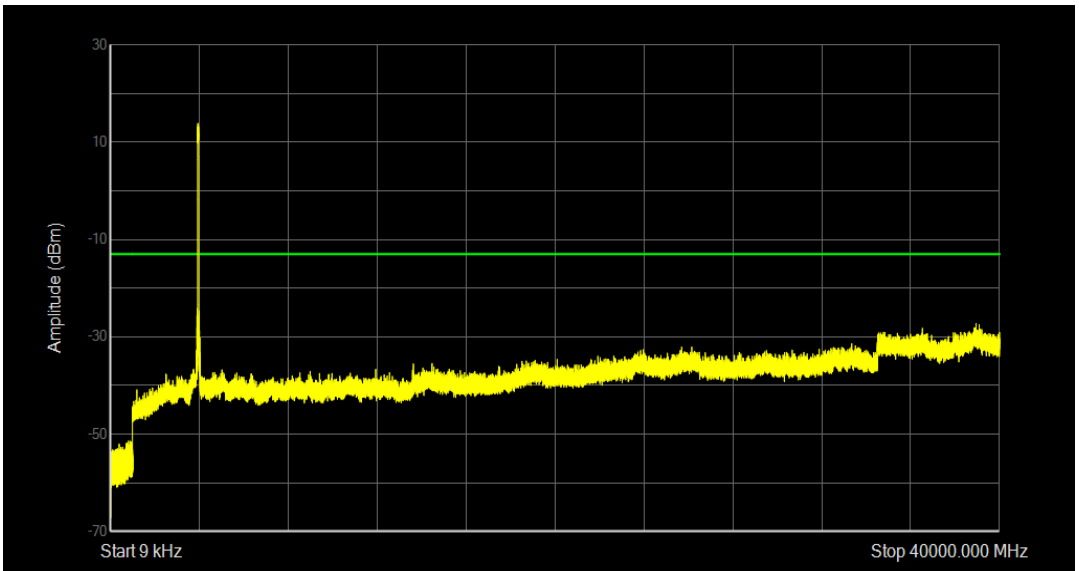
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0141183	-41.4	-13
2	0.15	30	10	0.1514925	-53.16	-13
3	30	1000	100	798.434	-50.36	-13
4	1000	40000	1000	39024.025	-27.89	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=663666 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010737825	-40.45	-13
2	0.15	30	10	0.17462625	-53.68	-13
3	30	1000	100	510.732	-51.28	-13
4	1000	40000	1000	38920.675	-28.22	-13

n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz Channel=663666 RB=133@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010533375	-41.14	-13
2	0.15	30	10	0.158955	-52.59	-13
3	30	1000	100	822.51425	-51.41	-13
4	1000	40000	1000	38941.15	-27.24	-13