n77(3450-3550) SCS=30kHz DFT_QAM64 BW=30MHz Channel=633334 RB=75@0

n77(3450-3550) SCS=30kHz DFT_QAM64 BW=10MHz Channel=633334 RB=24@0

n77(3450-3550) SCS=30kHz DFT_QAM64 BW=15MHz Channel=633334 RB=36@0

n77(3450-3550) SCS=30kHz DFT_QAM64 BW=80MHz Channel=633334 RB=216@0

n77(3450-3550) SCS=30kHz DFT_QAM64 BW=90MHz Channel=633334 RB=240@0

n77(3450-3550) SCS=30kHz DFT_QAM64 BW=60MHz Channel=633334 RB=162@0

n77(3450-3550) SCS=30kHz DFT_QAM64 BW=40MHz Channel=633334 RB=100@0

n77(3450-3550) SCS=30kHz DFT_QAM64 BW=50MHz Channel=633334 RB=128@0

n77(3450-3550) SCS=30kHz DFT_QPSK BW=100MHz Channel=633334 RB=270@0

n77(3450-3550) SCS=30kHz DFT_QPSK BW=30MHz Channel=633334 RB=75@0

n77(3450-3550) SCS=30kHz DFT_QPSK BW=40MHz Channel=633334 RB=100@0

n77(3450-3550) SCS=30kHz DFT_QPSK BW=20MHz Channel=633334 RB=50@0

n77(3450-3550) SCS=30kHz DFT_QPSK BW=10MHz Channel=633334 RB=24@0

n77(3450-3550) SCS=30kHz DFT_QPSK BW=15MHz Channel=633334 RB=36@0

n77(3450-3550) SCS=30kHz DFT_QPSK BW=80MHz Channel=633334 RB=216@0

n77(3450-3550) SCS=30kHz DFT_QPSK BW=90MHz Channel=633334 RB=240@0

n77(3450-3550) SCS=30kHz DFT_QPSK BW=50MHz Channel=633334 RB=128@0

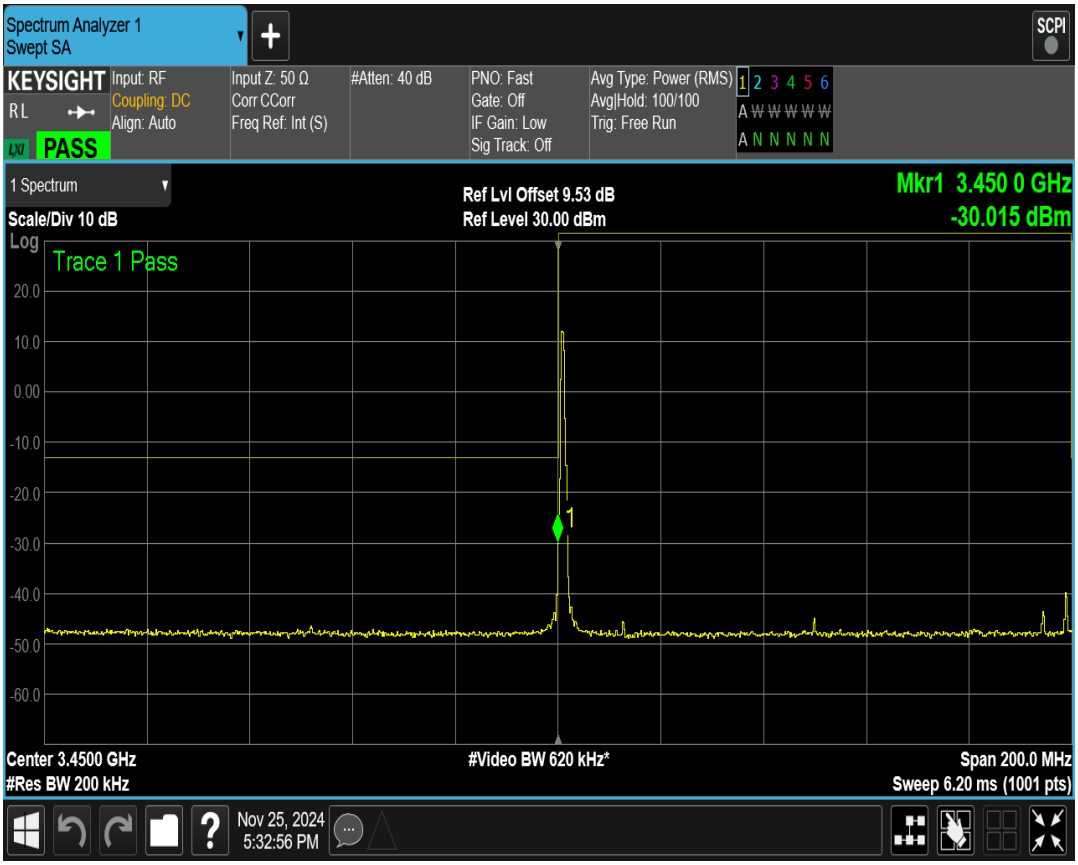
n77(3450-3550) SCS=30kHz DFT_QPSK BW=60MHz Channel=633334 RB=162@0

KEYSIGHT Keysight RF Application (3.5.134.12281)
NR1
CONNECTED
Band
N77
DL BW
60 MHz
Low
Mid
High
ARFCN/Freq
D: 633334
3500.01 MHz
U: 633334
3500.01 MHz
Cell Power
-44.14 dBm/BW
CLPC
All Up Bits
Test Case
6.2.1 FR1 NR UE Maximum Output Power
SA
NR1
NR2
Cell Quick Config
Measurement
BLER/Tput
UE Info.
Msg. Summary
NR UE Power: 25 dBm DL BLER: — %
Duplex: TDD
Port: RFI01
Freq: 3500.01 MHz
EIP: 29 dBm
Measuring
Acquiring
Avg: 2/2
Occupied Bandwidth
Amplitude (dBm)
0.00
-6.61
-13.22
-19.83
-26.44
-33.05
-39.66
-46.27
-52.88
-59.50
3.444
3.456
3.468
3.480
3.492
3.504
3.516
3.528
3.540
3.552
Frequency (GHz)
Pass/Fail Pass
OBW 57.773 MHz
Tx Freq Err 0.00 Hz
X dB BW 58.70 MHz
Total Power 25.02 dBm
Meas Cell NR1
Meas Mode Basic
Meas Select
Meas Channel PUSCH
Average Count 2
Continuous Off
Restart
NR1
Common
UL RMC Quick Config DFT-s-OFDM-QPSK
UL RB Allocation Type Contiguous
UL RB Allocation Custom
Start/Count 0 162
UL MCS/Type 2 - QPSK
MCS Table 64 QAM
UL Waveform DFT-s-OFDM
Pi/2 BPSK OFF
Additional Spectrum Emission ON NS_01
P-Max 26
p-NR-FR1 OFF
p-UE-FR1 OFF
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
BSE:MEASure:TX:NR5G:BASic:INITiate
Copy
Current Log
2024-11-25 19:27:00

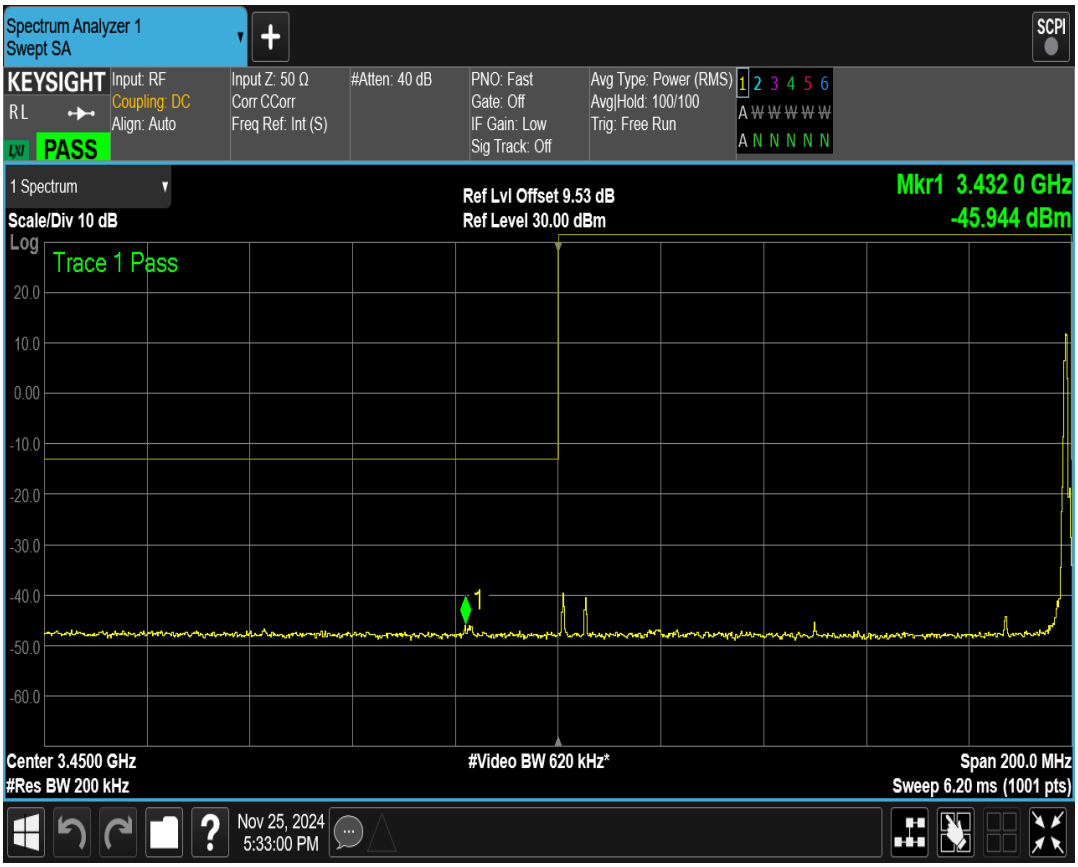
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3450-3550)	30	10	630334	24@0	CP_QPSK	3449.70	-30.95	-13	PASS
n77(3450-3550)	30	10	630334	1@0	CP_QPSK	3449.98	-26.52	-13	PASS
n77(3450-3550)	30	10	630334	1@23	CP_QPSK	3444.32	-46.40	-13	PASS
n77(3450-3550)	30	10	636332	24@0	CP_QPSK	3550.14	-36.63	-13	PASS
n77(3450-3550)	30	10	636332	1@0	CP_QPSK	3555.60	-44.79	-13	PASS
n77(3450-3550)	30	10	636332	1@23	CP_QPSK	3550.02	-29.81	-13	PASS
n77(3450-3550)	30	50	631668	133@0	CP_QPSK	3445.00	-36.08	-13	PASS
n77(3450-3550)	30	50	631668	1@0	CP_QPSK	3450.00	-36.34	-13	PASS
n77(3450-3550)	30	50	631668	1@132	CP_QPSK	3440.40	-45.81	-13	PASS
n77(3450-3550)	30	50	635000	133@0	CP_QPSK	3550.70	-35.52	-13	PASS
n77(3450-3550)	30	50	635000	1@0	CP_QPSK	3559.60	-46.61	-13	PASS
n77(3450-3550)	30	50	635000	1@132	CP_QPSK	3550.00	-37.73	-13	PASS
n77(3450-3550)	30	100	633334	273@0	CP_QPSK	3450.00	-24.45	-13	PASS
n77(3450-3550)	30	100	633334	1@0	CP_QPSK	3450.00	-30.01	-13	PASS
n77(3450-3550)	30	100	633334	1@272	CP_QPSK	3432.00	-45.94	-13	PASS

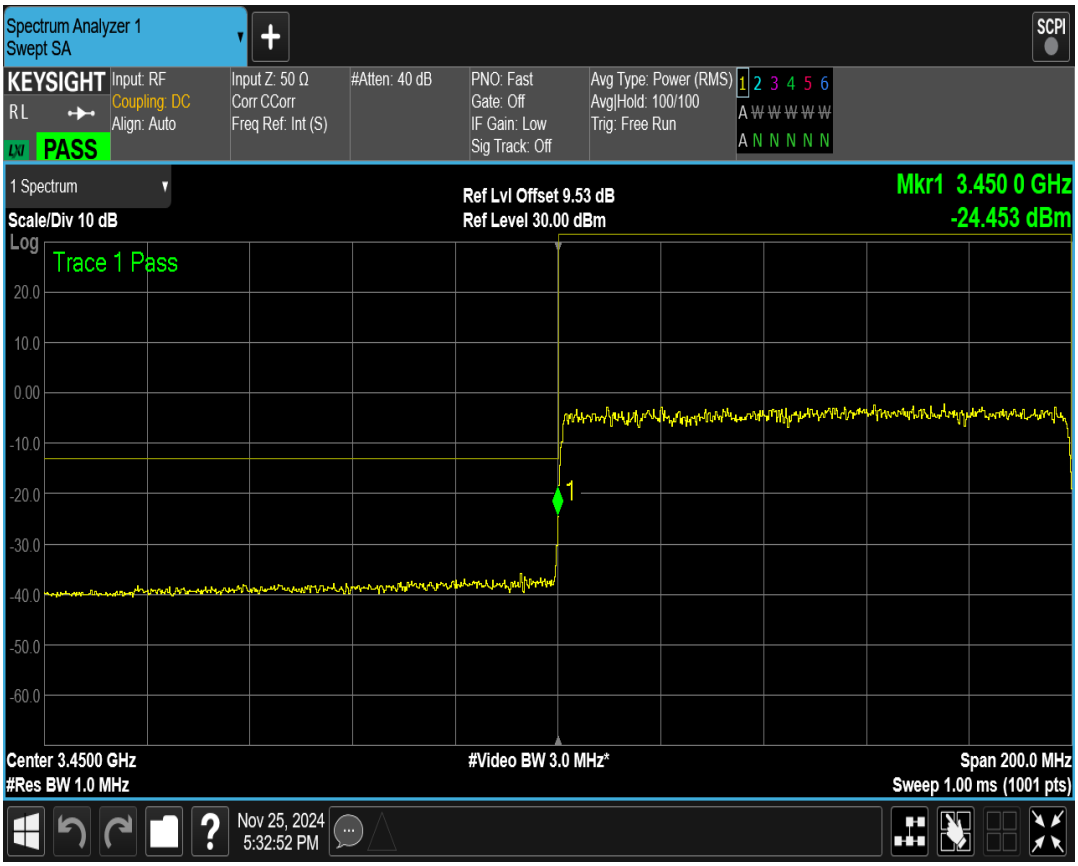
n77(3450-3550) SCS=30kHz CP_QPSK BW=100MHz Channel=633334 RB=1@0



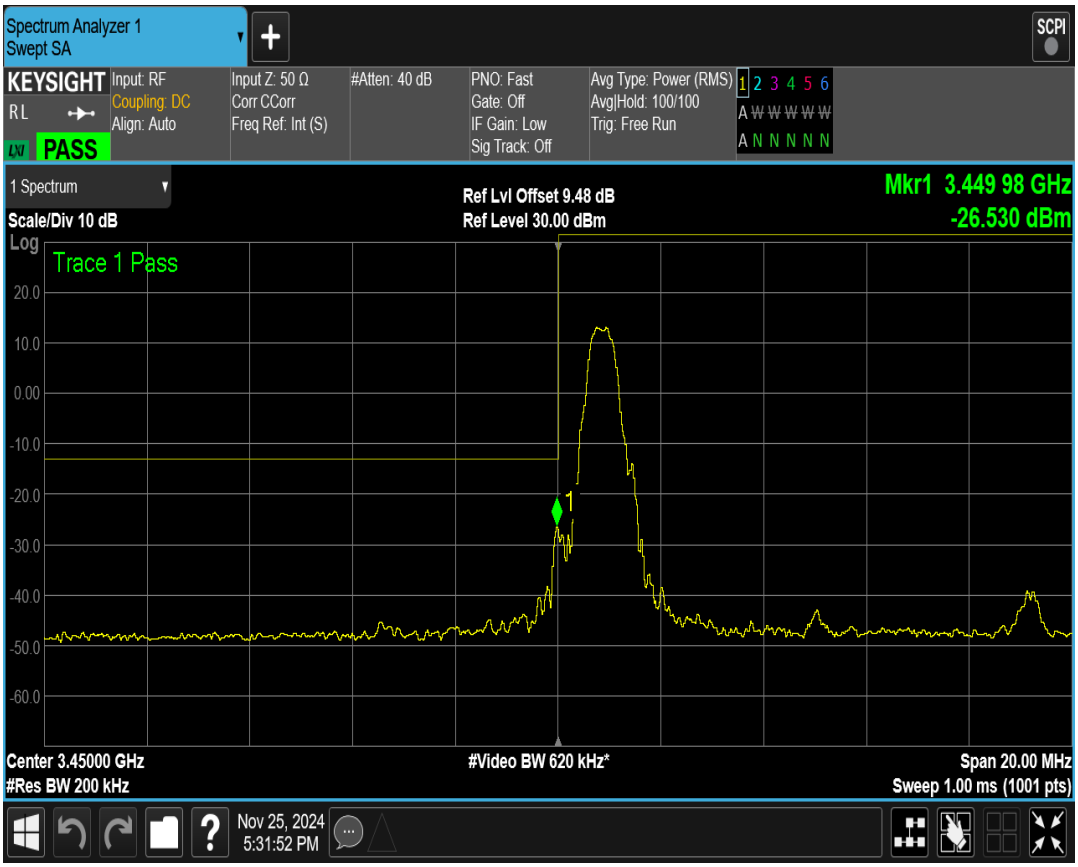
n77(3450-3550) SCS=30kHz CP_QPSK BW=100MHz Channel=633334 RB=1@272



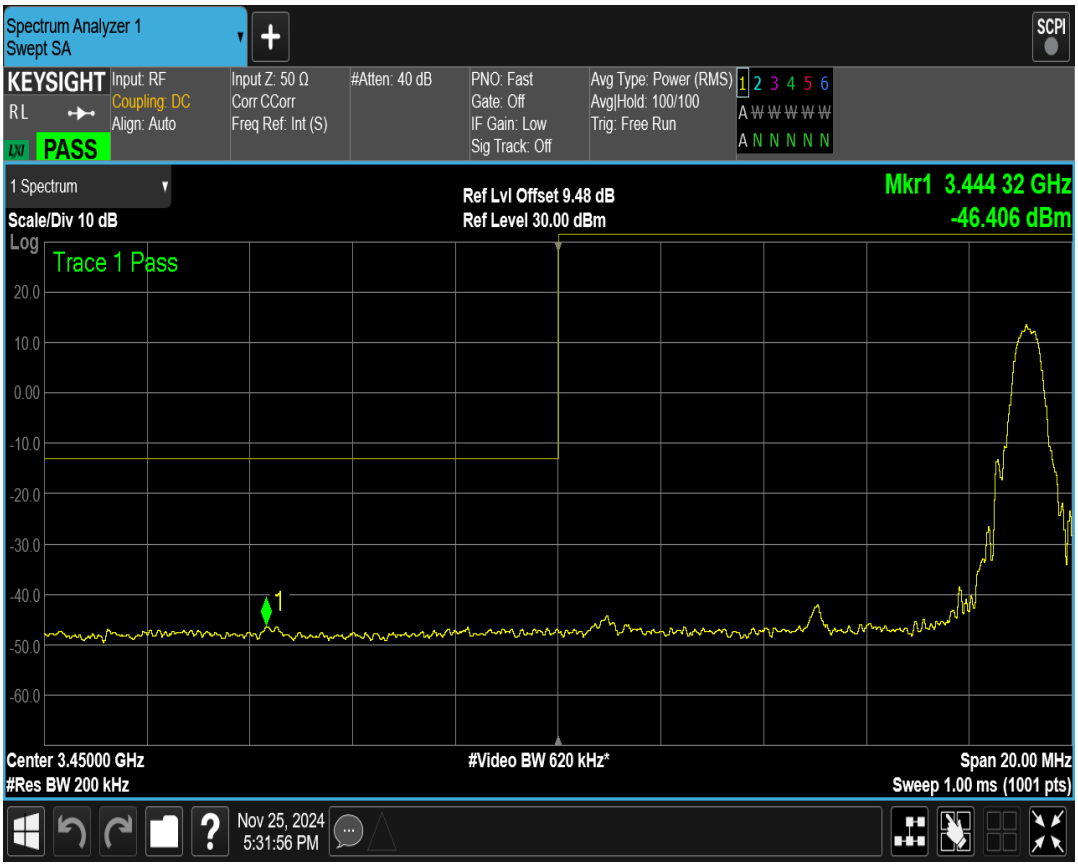
n77(3450-3550) SCS=30kHz CP_QPSK BW=100MHz Channel=633334 RB=273@0



n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=630334 RB=1@0

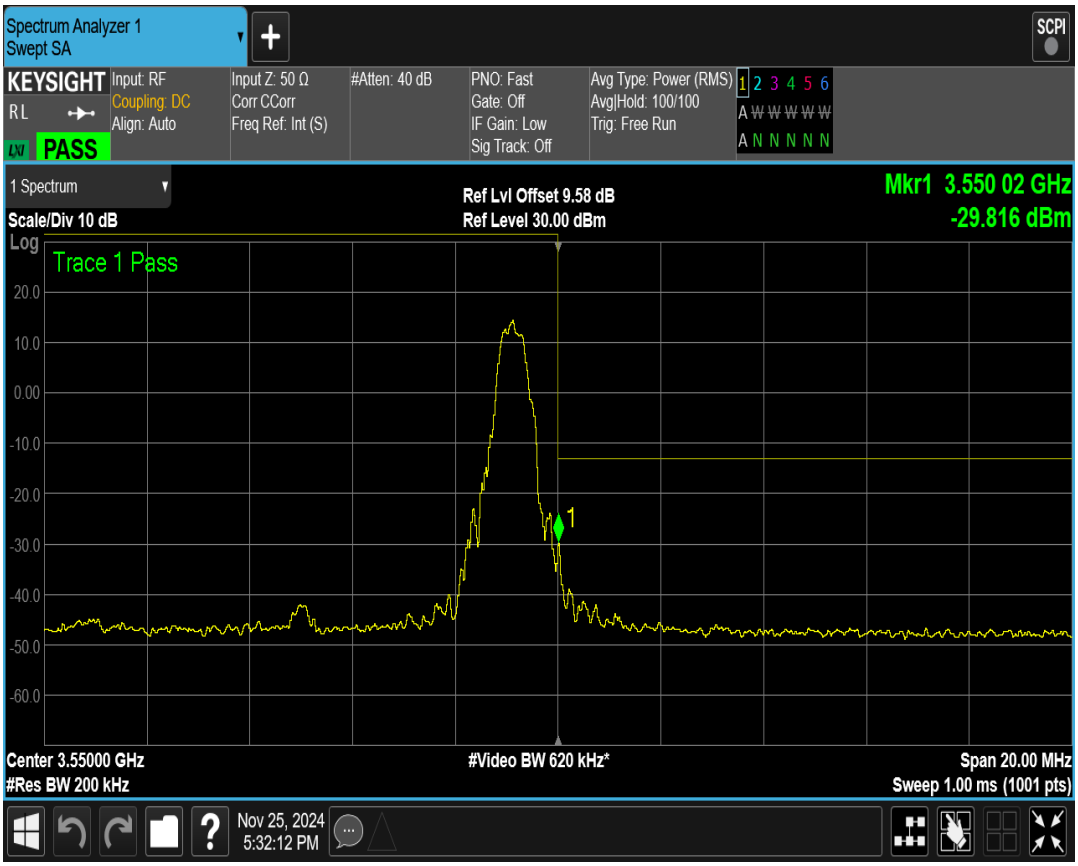


n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=630334 RB=1@23

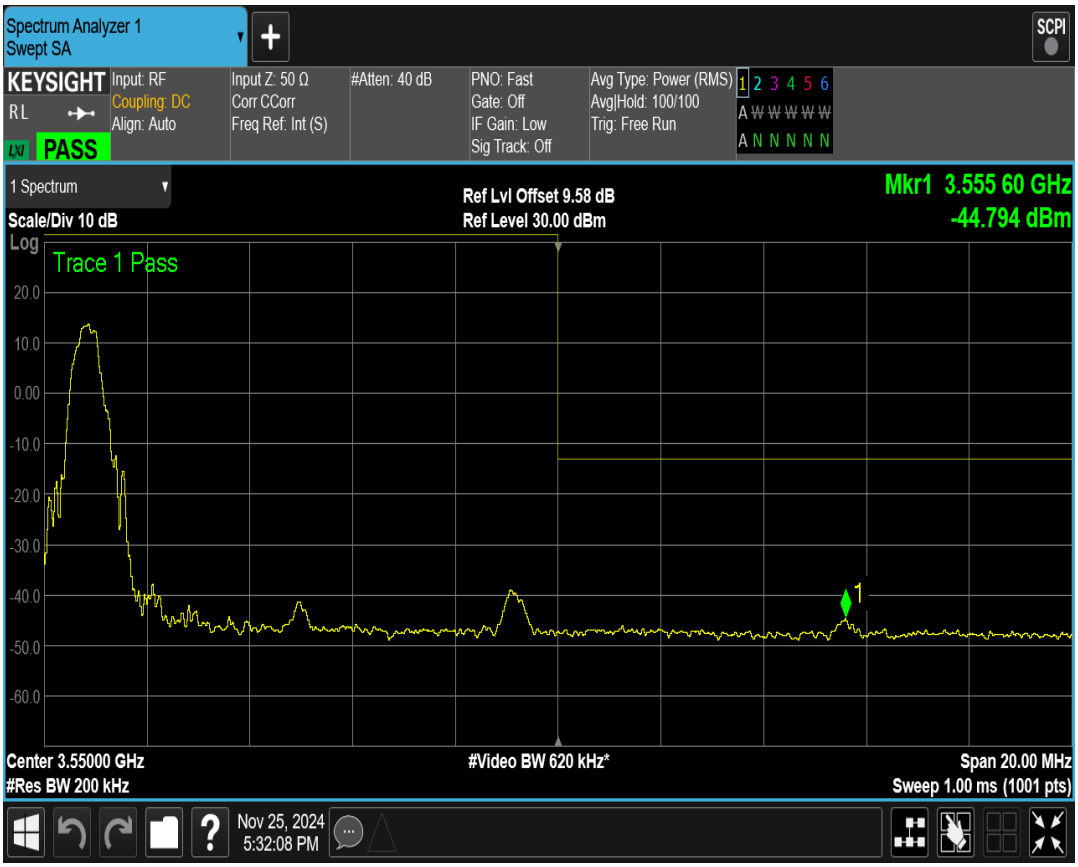


n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=630334 RB=24@0

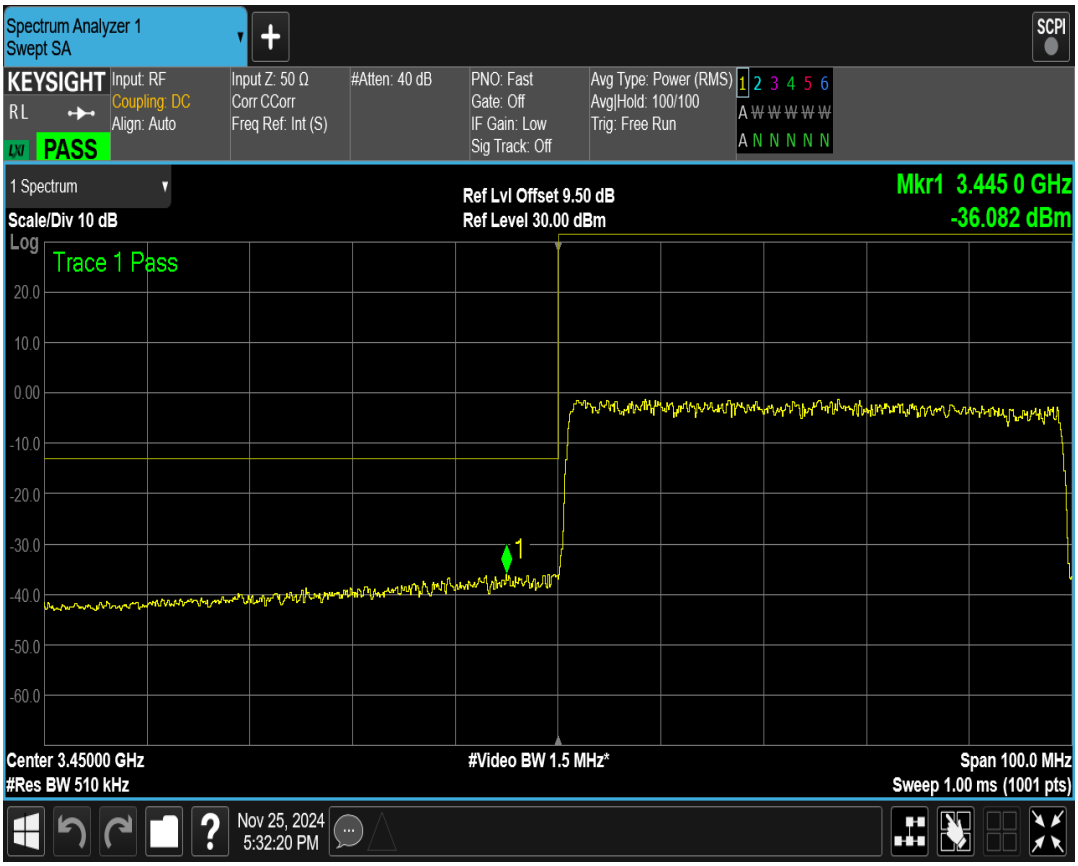
n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=636332 RB=1@23



n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=636332 RB=1@0

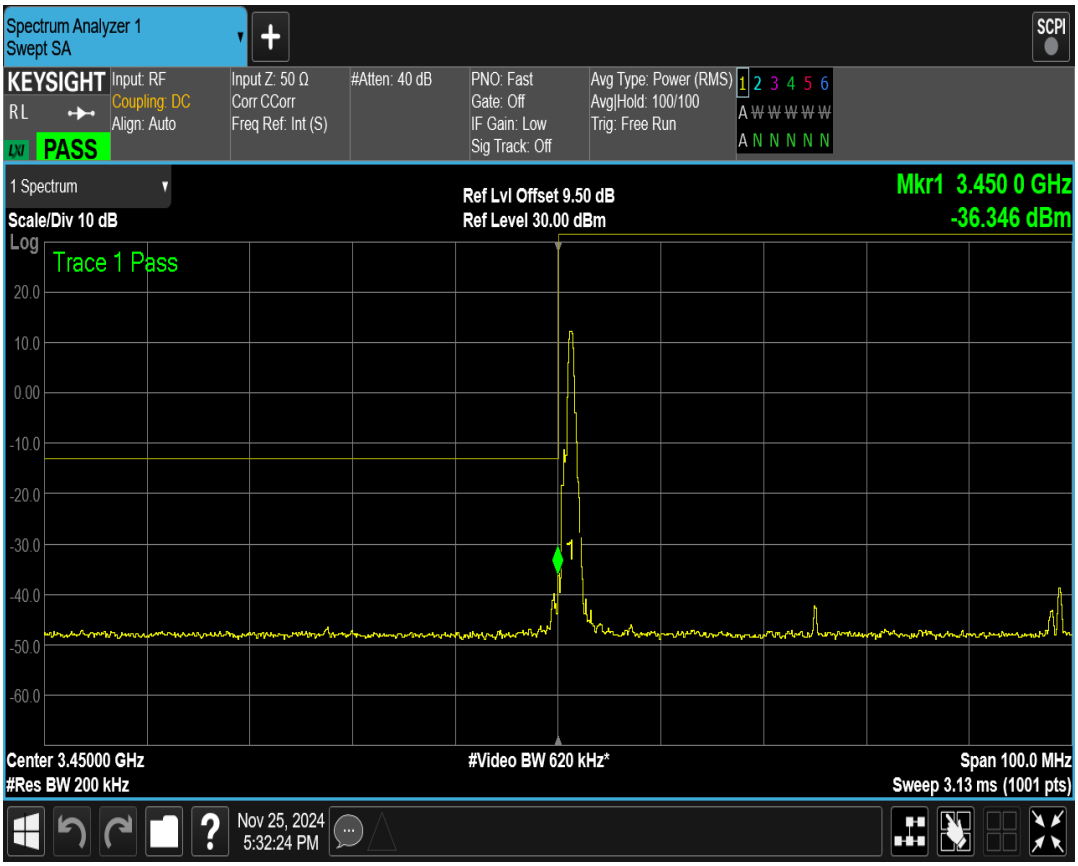


n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=631668 RB=133@0

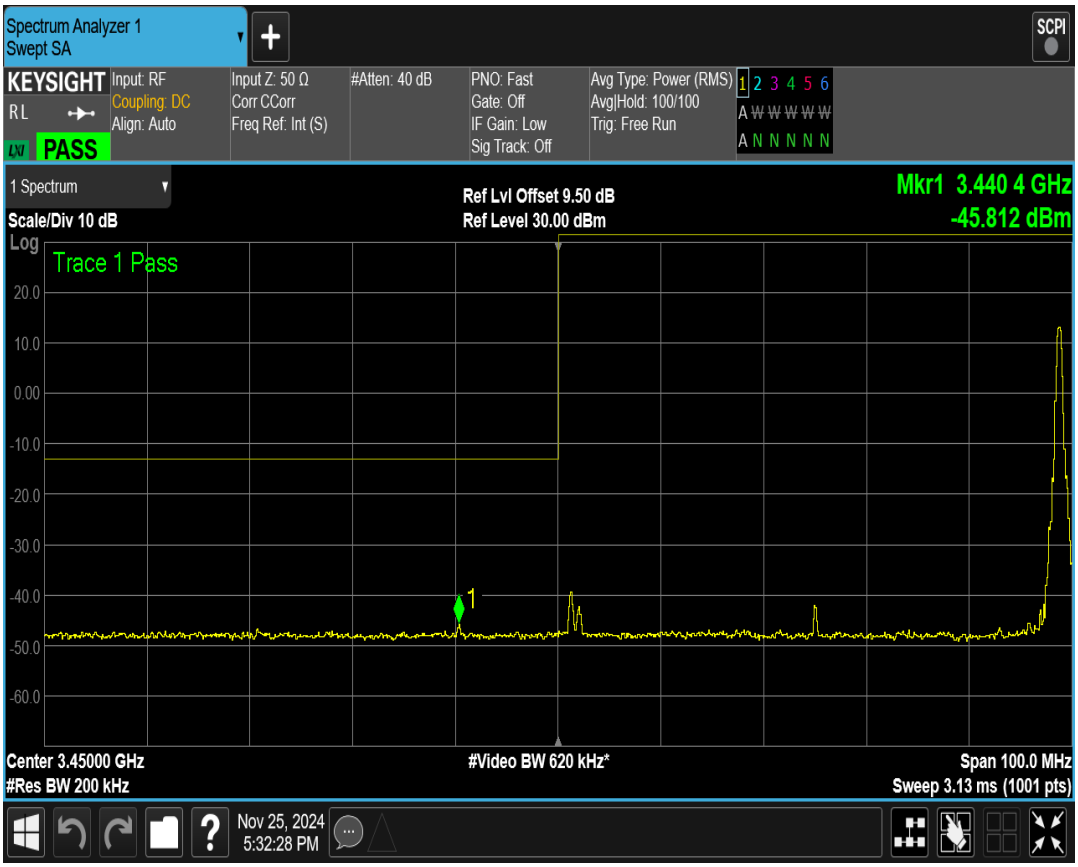


n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=636332 RB=24@0

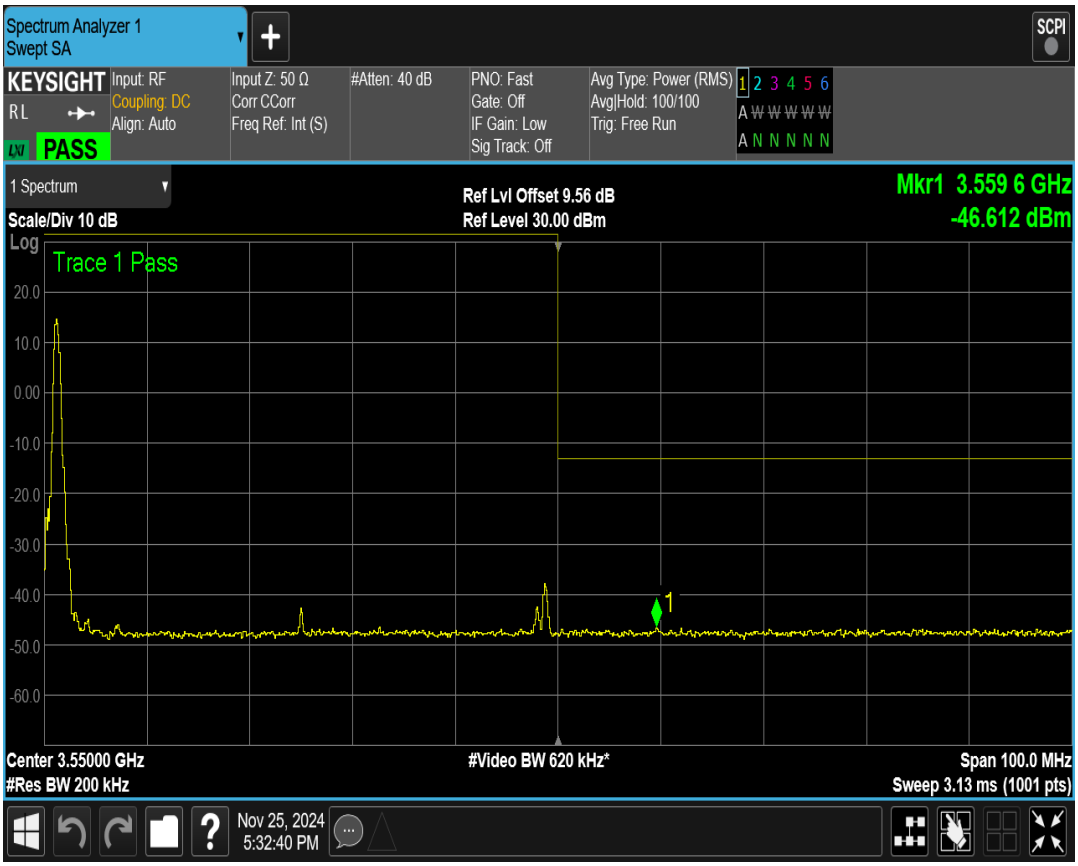
n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=631668 RB=1@0



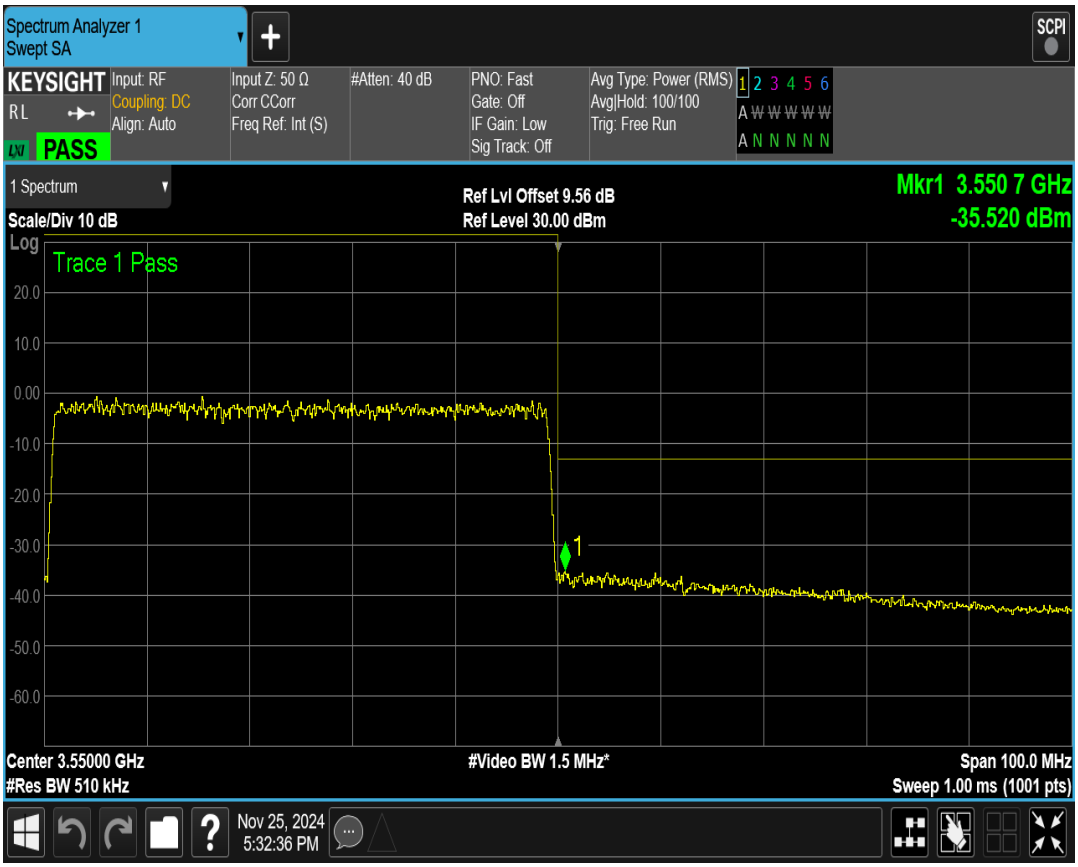
n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=631668 RB=1@132



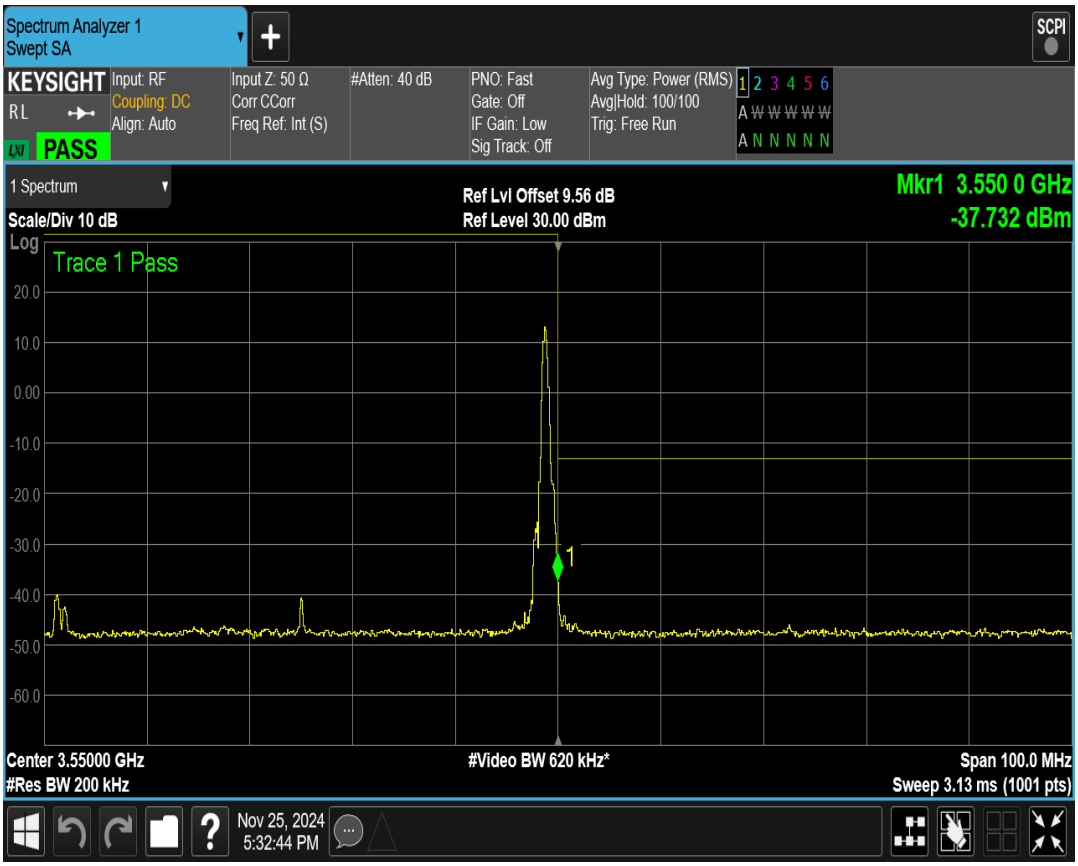
n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=635000 RB=1@0



n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=635000 RB=133@0



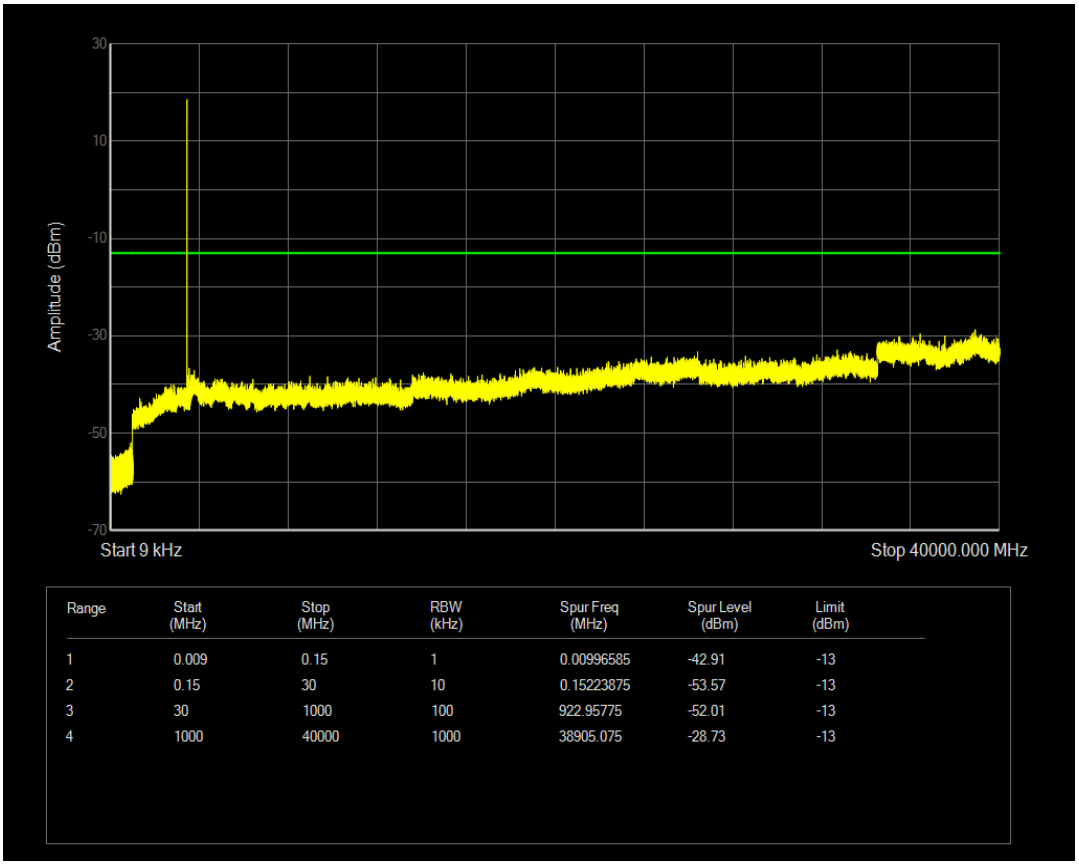
n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=635000 RB=1@132



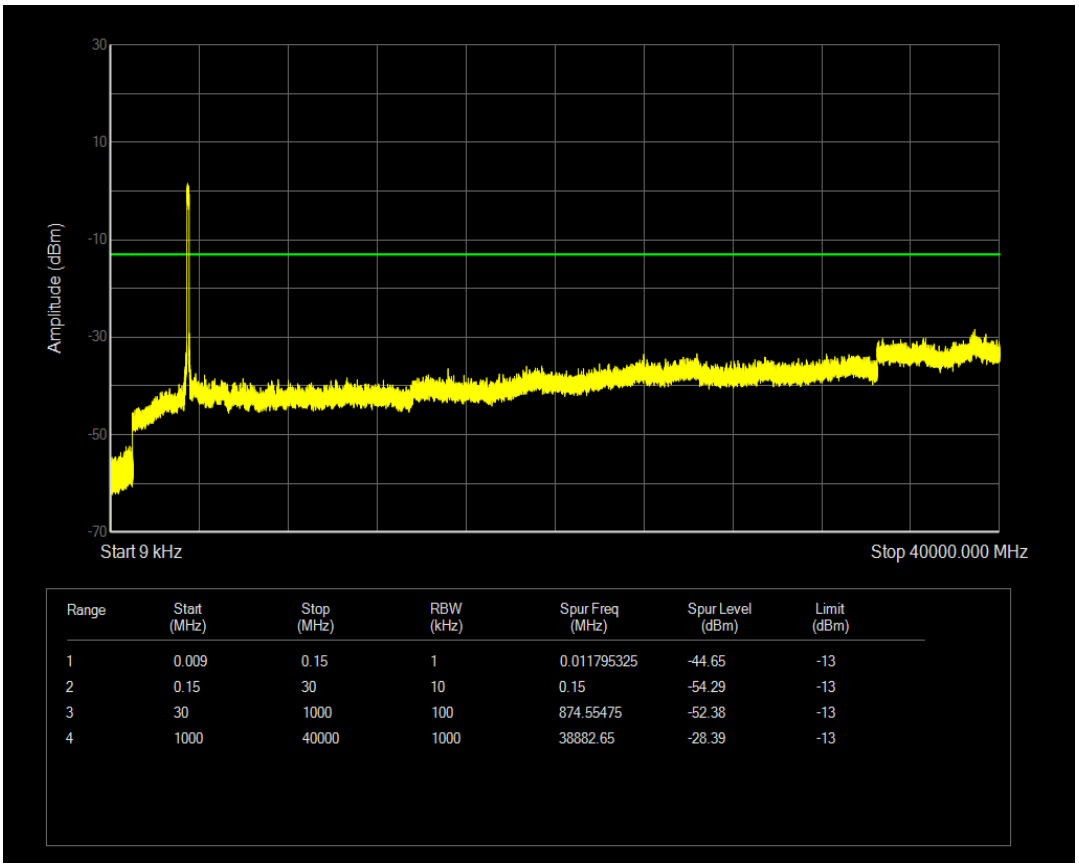
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n77(3450-3550)	30	10	630334	24@0	CP_QPSK	38825.13	-29.31	-13	PASS
n77(3450-3550)	30	10	630334	1@0	CP_QPSK	38908.98	-28.84	-13	PASS
n77(3450-3550)	30	10	630334	1@23	CP_QPSK	38897.28	-28.12	-13	PASS
n77(3450-3550)	30	10	636332	24@0	CP_QPSK	38869.98	-28.64	-13	PASS
n77(3450-3550)	30	10	636332	1@0	CP_QPSK	38905.08	-29.16	-13	PASS
n77(3450-3550)	30	10	636332	1@23	CP_QPSK	36642.10	-29.38	-13	PASS
n77(3450-3550)	30	50	631668	133@0	CP_QPSK	38873.88	-28.85	-13	PASS
n77(3450-3550)	30	50	631668	1@0	CP_QPSK	38788.08	-28.76	-13	PASS
n77(3450-3550)	30	50	631668	1@132	CP_QPSK	38825.13	-28.62	-13	PASS
n77(3450-3550)	30	50	635000	133@0	CP_QPSK	39399.40	-29.53	-13	PASS
n77(3450-3550)	30	50	635000	1@0	CP_QPSK	38911.90	-28.56	-13	PASS
n77(3450-3550)	30	50	635000	1@132	CP_QPSK	38789.05	-28.64	-13	PASS
n77(3450-3550)	30	100	633334	273@0	CP_QPSK	38882.65	-28.39	-13	PASS
n77(3450-3550)	30	100	633334	1@0	CP_QPSK	38905.08	-28.73	-13	PASS
n77(3450-3550)	30	100	633334	1@272	CP_QPSK	38966.50	-29.02	-13	PASS

n77(3450-3550) SCS=30kHz CP_QPSK BW=100MHz Channel=633334 RB=1@0

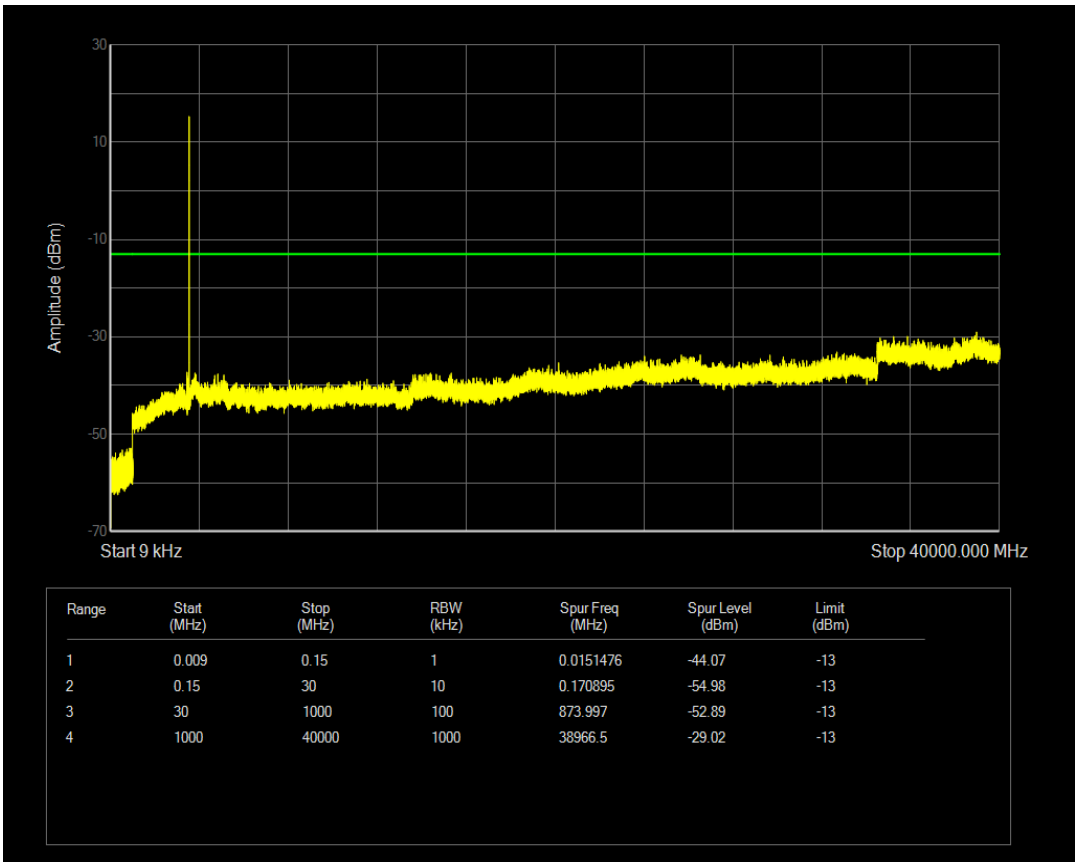


n77(3450-3550) SCS=30kHz CP_QPSK BW=100MHz Channel=633334 RB=273@0



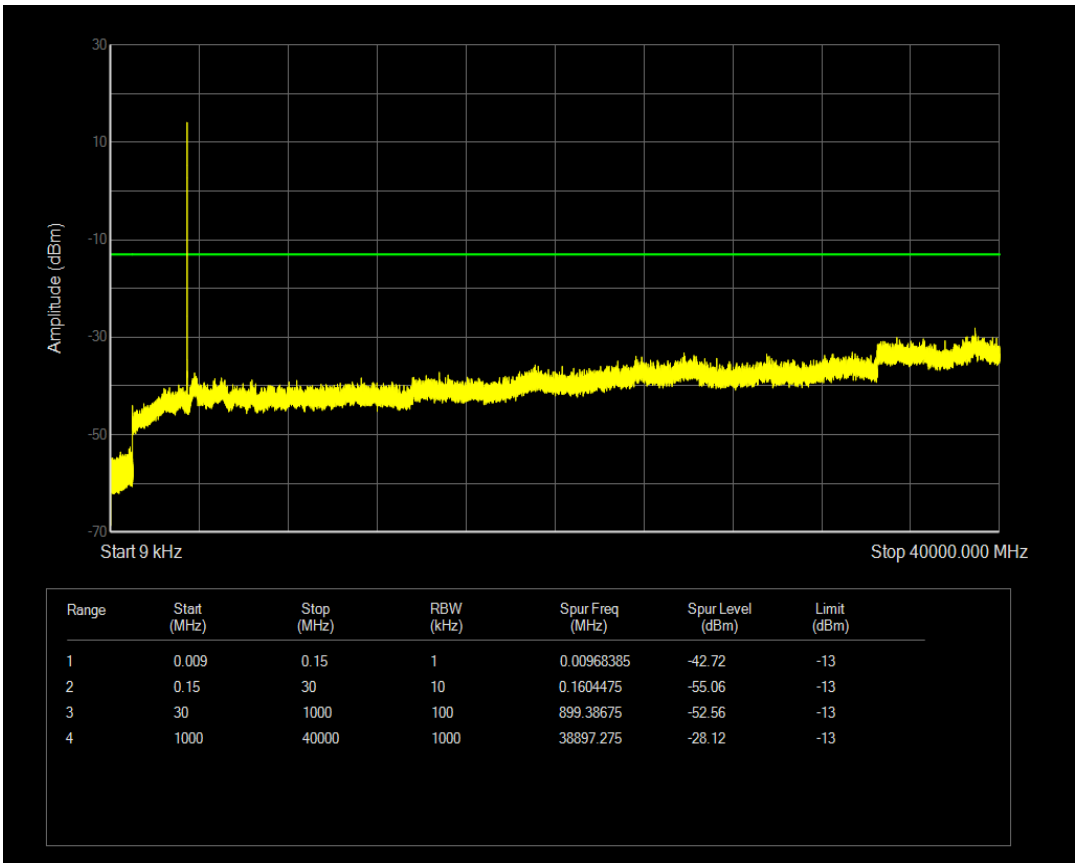
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011795325	-44.65	-13
2	0.15	30	10	0.15	-54.29	-13
3	30	1000	100	874.55475	-52.38	-13
4	1000	40000	1000	38882.65	-28.39	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=100MHz Channel=633334 RB=1@272



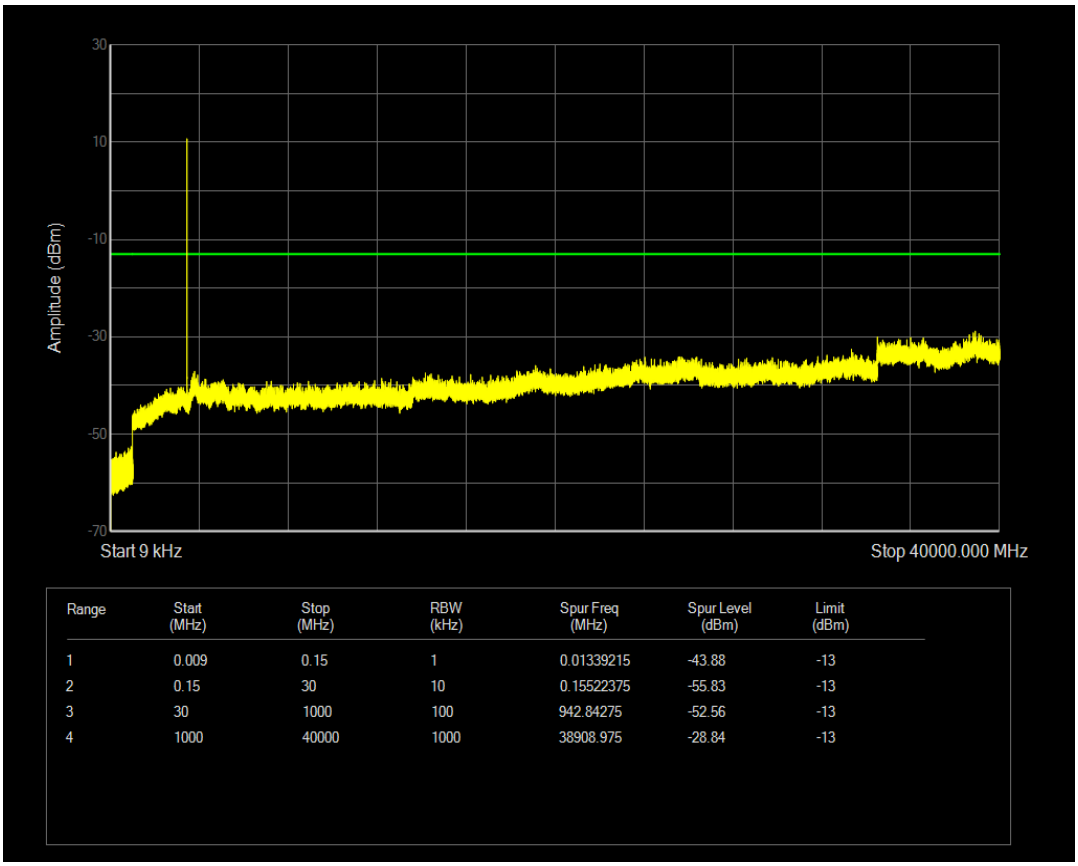
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0151476	-44.07	-13
2	0.15	30	10	0.170895	-54.98	-13
3	30	1000	100	873.997	-52.89	-13
4	1000	40000	1000	38966.5	-29.02	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=630334 RB=1@23



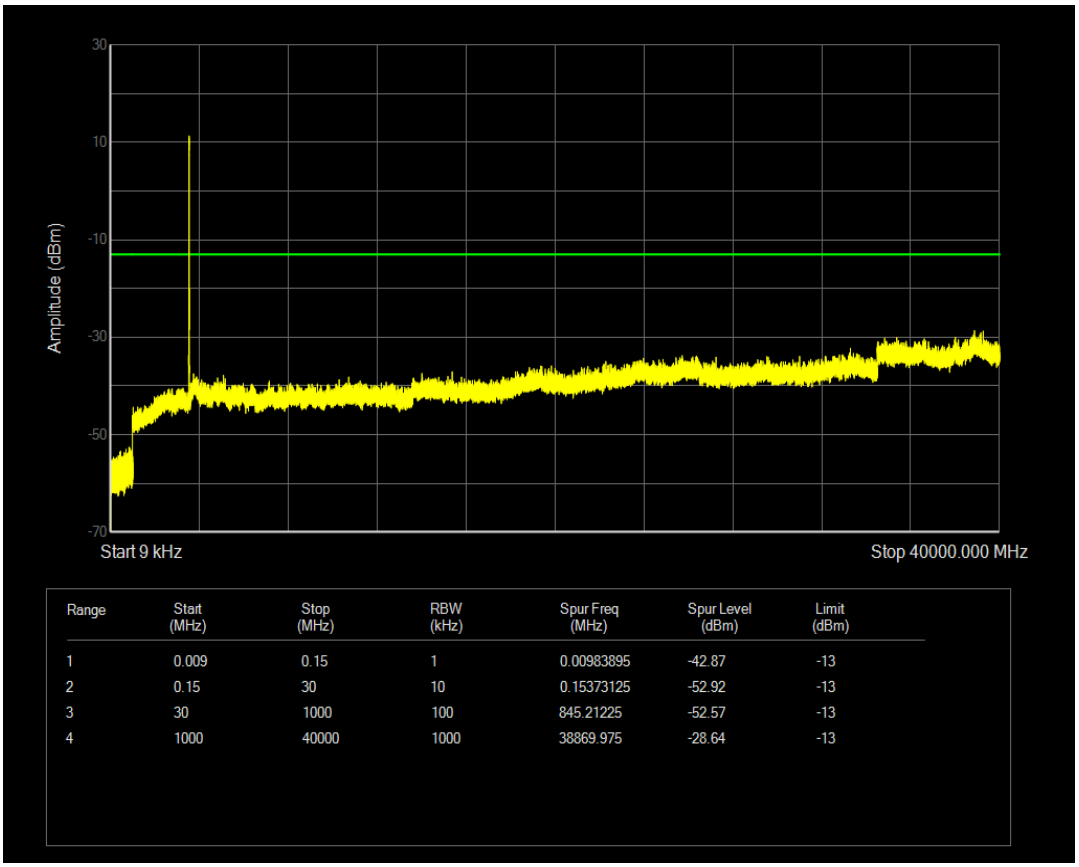
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00968385	-42.72	-13
2	0.15	30	10	0.1604475	-55.06	-13
3	30	1000	100	899.38675	-52.56	-13
4	1000	40000	1000	38897.275	-28.12	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=630334 RB=1@0



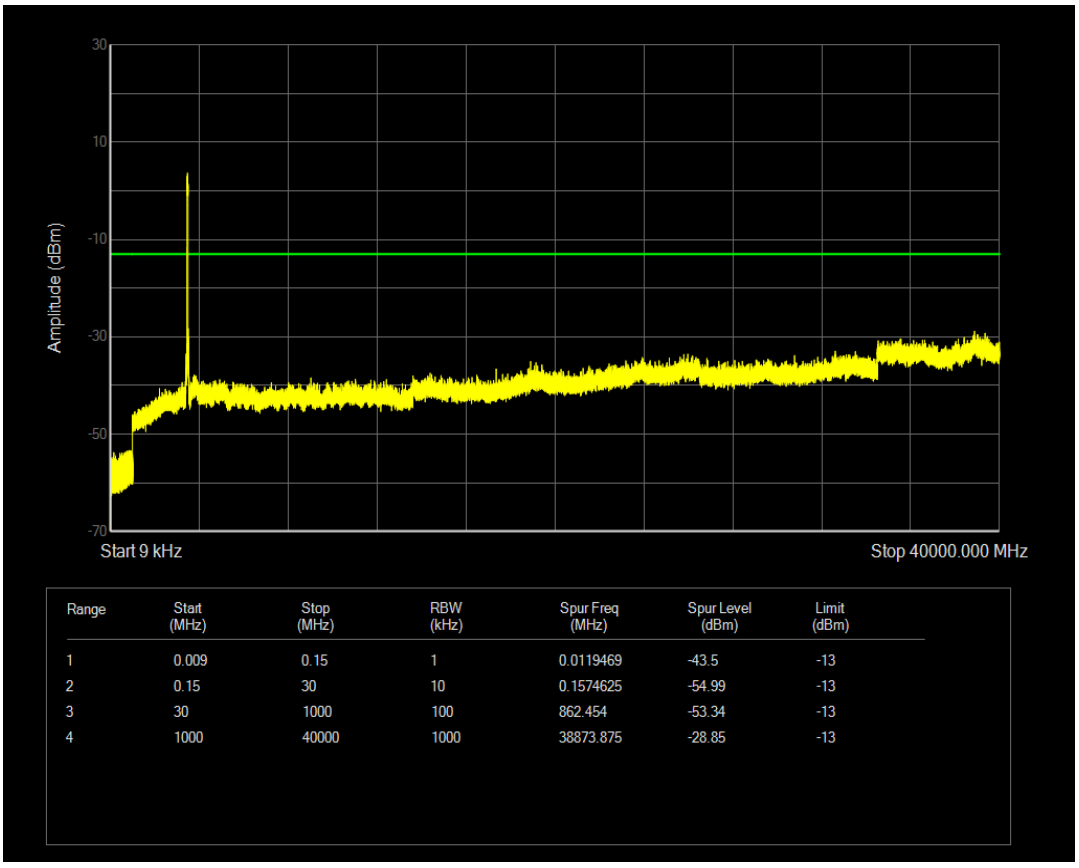
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01339215	-43.88	-13
2	0.15	30	10	0.15522375	-55.83	-13
3	30	1000	100	942.84275	-52.56	-13
4	1000	40000	1000	38908.975	-28.84	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=636332 RB=24@0



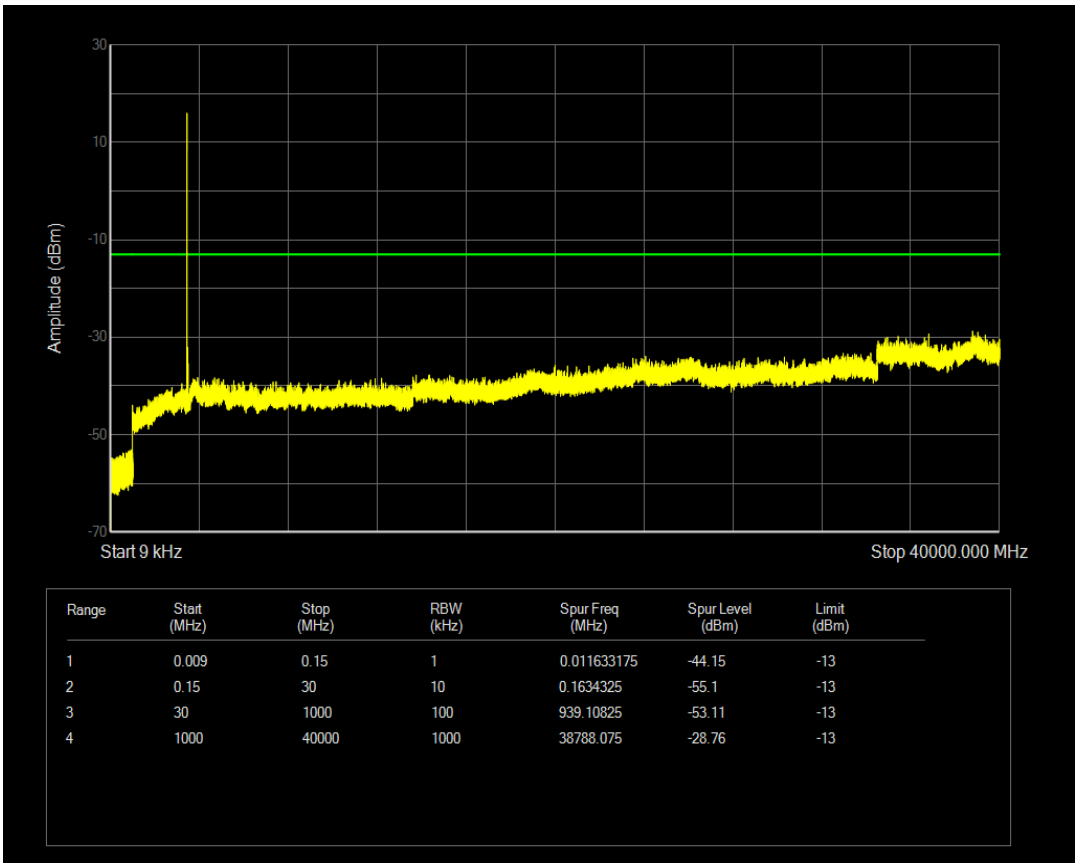
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00983895	-42.87	-13
2	0.15	30	10	0.15373125	-52.92	-13
3	30	1000	100	845.21225	-52.57	-13
4	1000	40000	1000	38869.975	-28.64	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=631668 RB=133@0



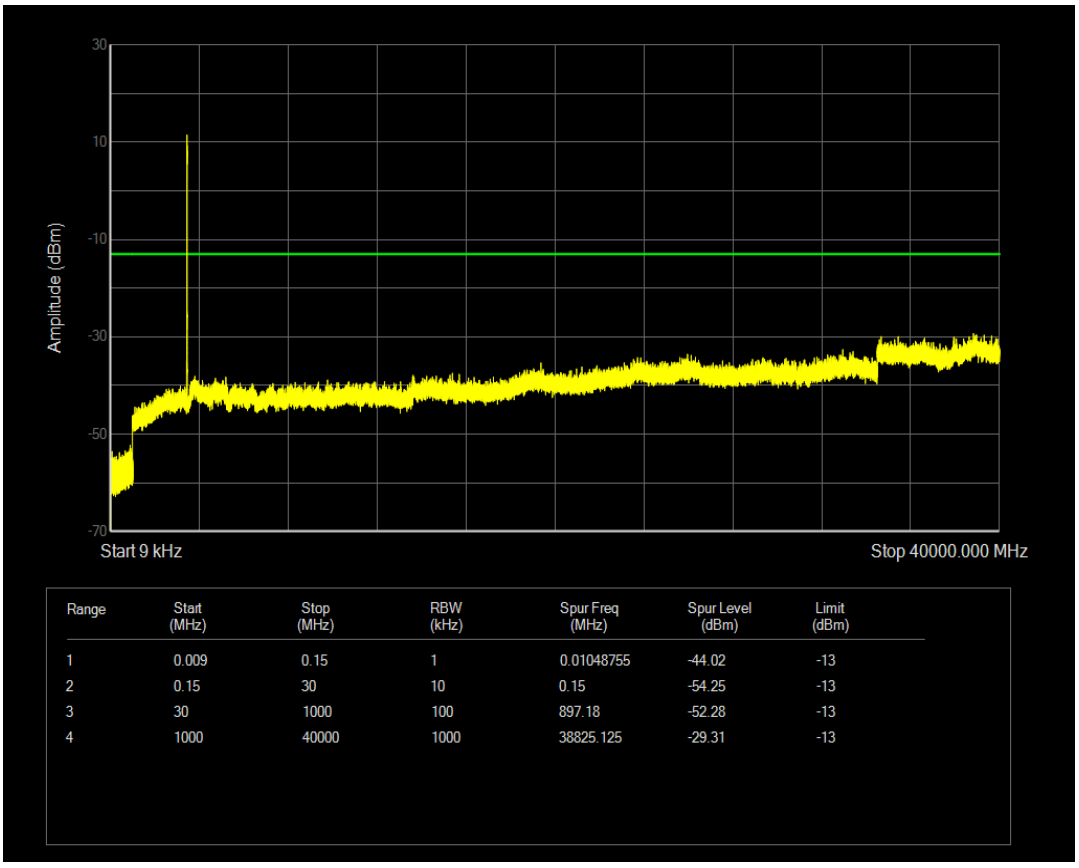
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0119469	-43.5	-13
2	0.15	30	10	0.1574625	-54.99	-13
3	30	1000	100	862.454	-53.34	-13
4	1000	40000	1000	38873.875	-28.85	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=631668 RB=1@0



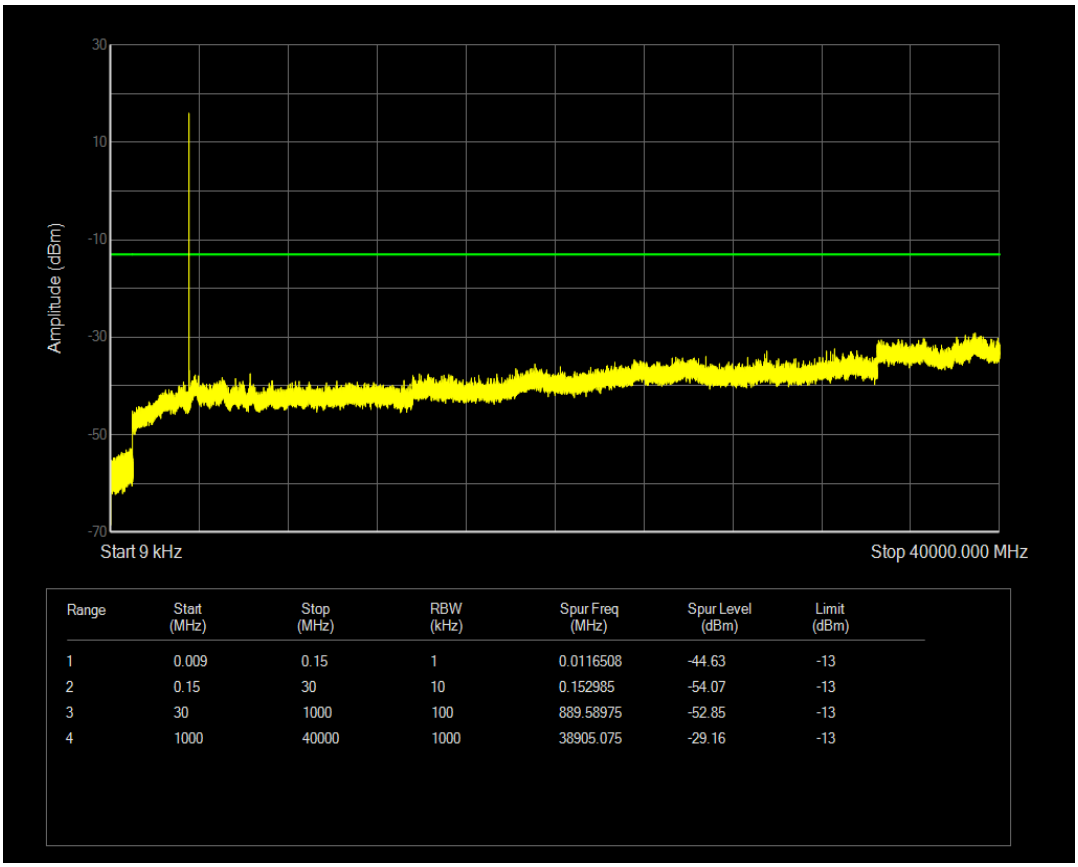
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011633175	-44.15	-13
2	0.15	30	10	0.1634325	-55.1	-13
3	30	1000	100	939.10825	-53.11	-13
4	1000	40000	1000	38788.075	-28.76	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=630334 RB=24@0



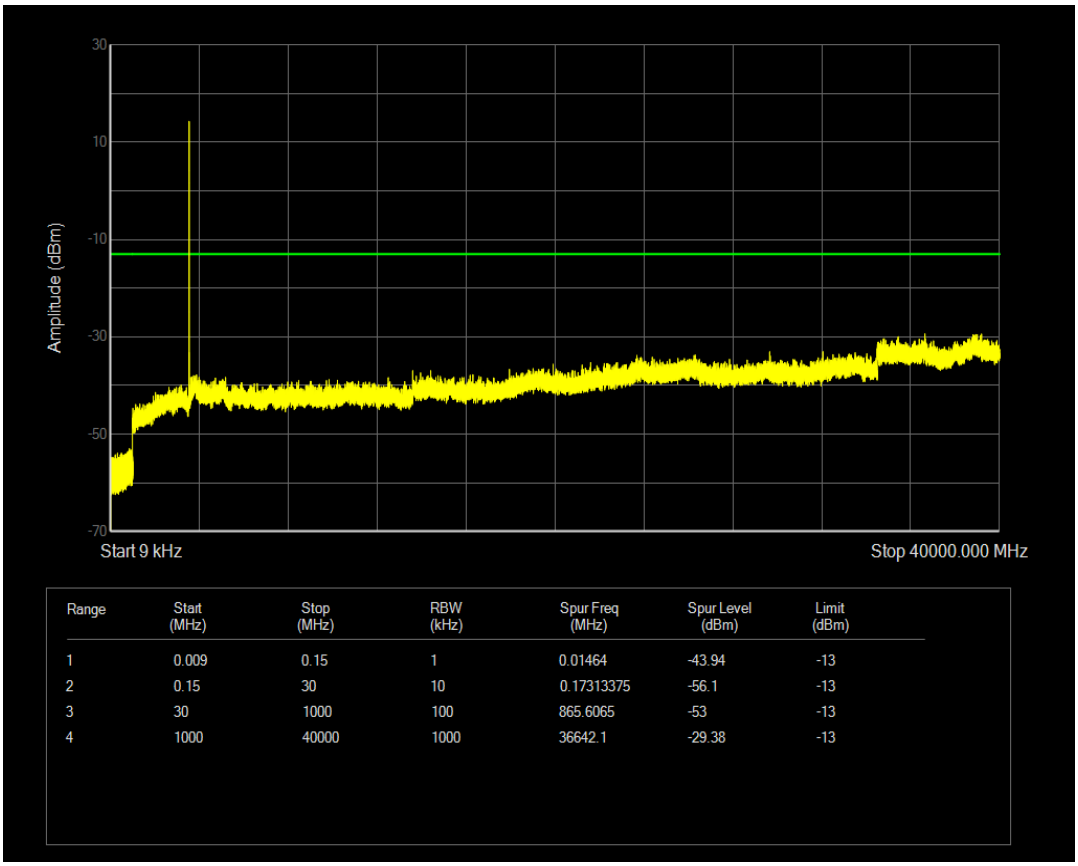
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01048755	-44.02	-13
2	0.15	30	10	0.15	-54.25	-13
3	30	1000	100	897.18	-52.28	-13
4	1000	40000	1000	38825.125	-29.31	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=636332 RB=1@0



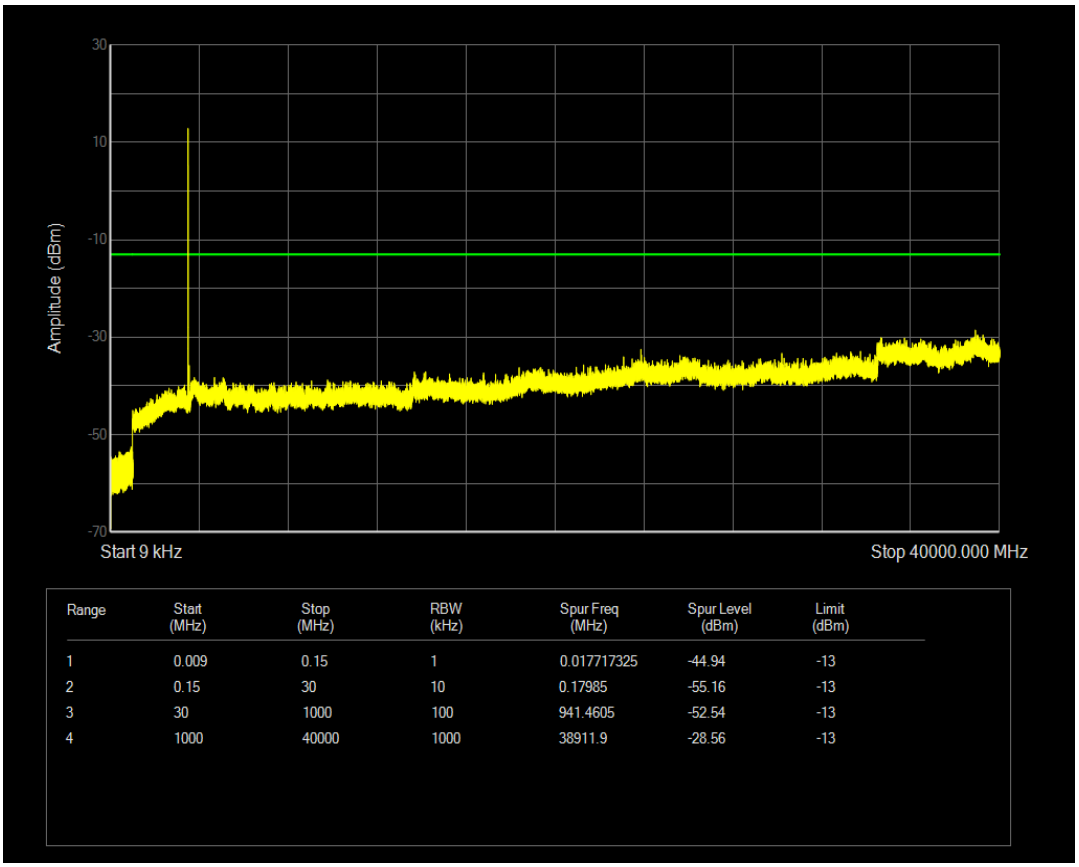
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0116508	-44.63	-13
2	0.15	30	10	0.152985	-54.07	-13
3	30	1000	100	889.58975	-52.85	-13
4	1000	40000	1000	38905.075	-29.16	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=10MHz Channel=636332 RB=1@23



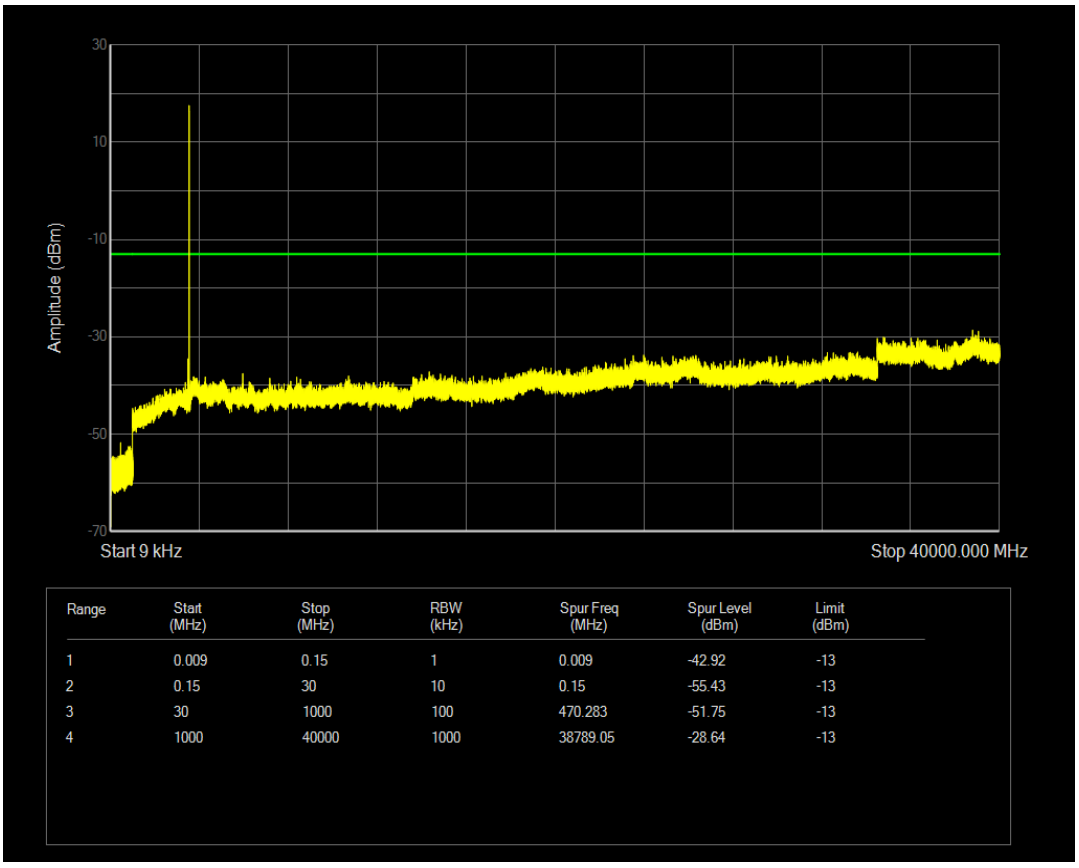
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01464	-43.94	-13
2	0.15	30	10	0.17313375	-56.1	-13
3	30	1000	100	865.6065	-53	-13
4	1000	40000	1000	36642.1	-29.38	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=635000 RB=1@0



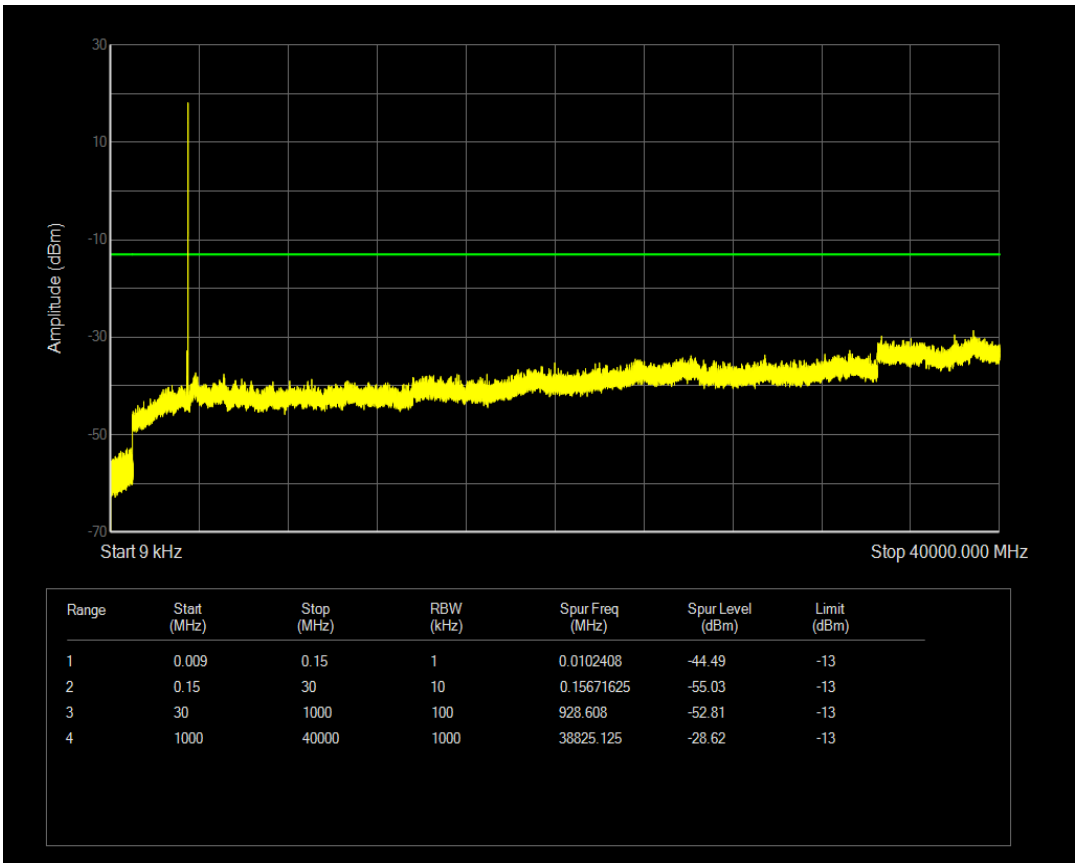
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.017717325	-44.94	-13
2	0.15	30	10	0.17985	-55.16	-13
3	30	1000	100	941.4605	-52.54	-13
4	1000	40000	1000	38911.9	-28.56	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=635000 RB=1@132



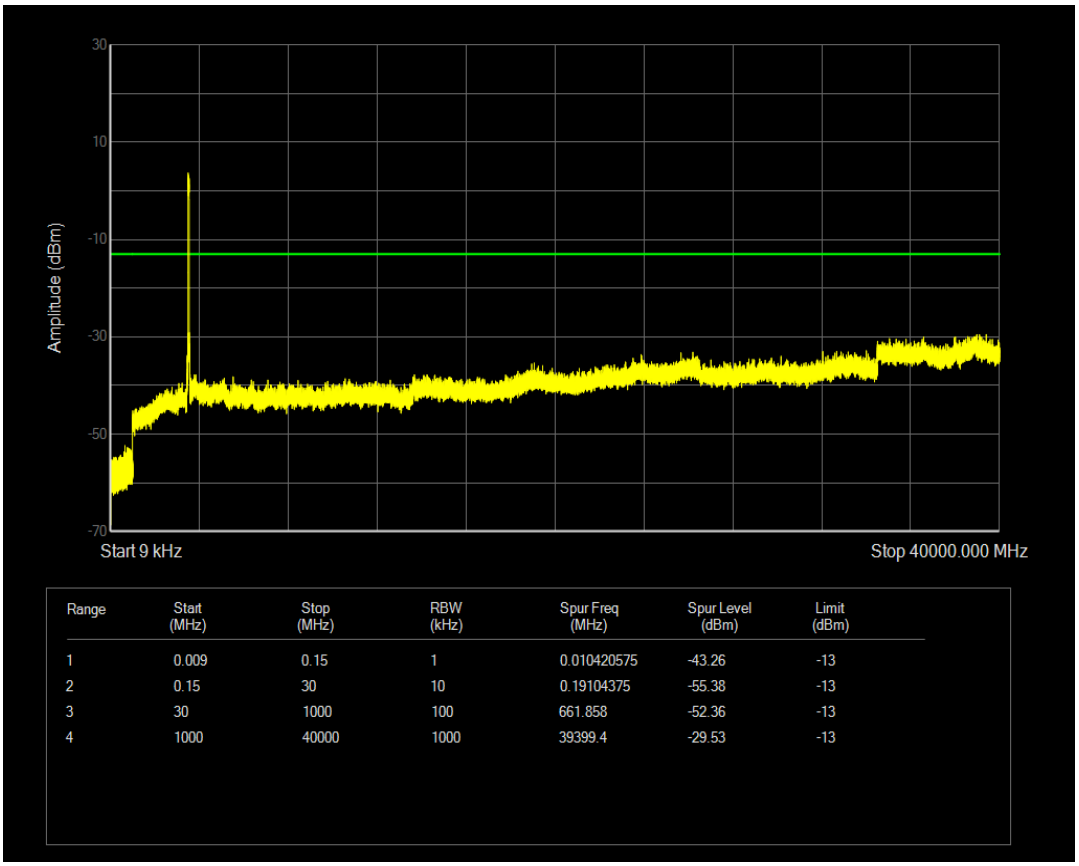
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-42.92	-13
2	0.15	30	10	0.15	-55.43	-13
3	30	1000	100	470.283	-51.75	-13
4	1000	40000	1000	38789.05	-28.64	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=631668 RB=1@132



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0102408	-44.49	-13
2	0.15	30	10	0.15671625	-55.03	-13
3	30	1000	100	928.608	-52.81	-13
4	1000	40000	1000	38825.125	-28.62	-13

n77(3450-3550) SCS=30kHz CP_QPSK BW=50MHz Channel=635000 RB=133@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010420575	-43.26	-13
2	0.15	30	10	0.19104375	-55.38	-13
3	30	1000	100	661.858	-52.36	-13
4	1000	40000	1000	39399.4	-29.53	-13