

4 Occupied bandwidth for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n41	30	20	518598	50@0	DFT_BPSK	18.060	18.250	PASS
n41	30	20	518598	50@0	DFT_QPSK	18.010	18.270	PASS
n41	30	20	518598	50@0	DFT_QAM16	18.070	18.260	PASS
n41	30	20	518598	50@0	DFT_QAM64	18.000	18.250	PASS
n41	30	20	518598	50@0	DFT_QAM256	17.980	18.290	PASS
n41	30	40	518598	100@0	DFT_BPSK	37.560	36.330	PASS
n41	30	40	518598	100@0	DFT_QPSK	37.510	36.370	PASS
n41	30	40	518598	100@0	DFT_QAM16	37.460	36.390	PASS
n41	30	40	518598	100@0	DFT_QAM64	37.460	36.260	PASS
n41	30	40	518598	100@0	DFT_QAM256	37.400	36.260	PASS
n41	30	50	518598	128@0	DFT_BPSK	47.080	46.410	PASS
n41	30	50	518598	128@0	DFT_QPSK	47.010	46.420	PASS
n41	30	50	518598	128@0	DFT_QAM16	46.900	46.290	PASS
n41	30	50	518598	128@0	DFT_QAM64	47.030	46.430	PASS
n41	30	50	518598	128@0	DFT_QAM256	47.030	46.390	PASS
n41	30	60	518598	162@0	DFT_BPSK	57.780	58.630	PASS
n41	30	60	518598	162@0	DFT_QPSK	57.640	58.530	PASS
n41	30	60	518598	162@0	DFT_QAM16	57.710	58.580	PASS
n41	30	60	518598	162@0	DFT_QAM64	57.780	58.620	PASS
n41	30	60	518598	162@0	DFT_QAM256	57.630	58.680	PASS
n41	30	80	518598	216@0	DFT_BPSK	76.950	78.080	PASS
n41	30	80	518598	216@0	DFT_QPSK	76.930	78.120	PASS
n41	30	80	518598	216@0	DFT_QAM16	76.940	78.140	PASS
n41	30	80	518598	216@0	DFT_QAM64	76.930	78.070	PASS
n41	30	80	518598	216@0	DFT_QAM256	77.040	78.050	PASS
n41	30	90	518598	240@0	DFT_BPSK	86.200	86.790	PASS
n41	30	90	518598	240@0	DFT_QPSK	86.210	86.700	PASS
n41	30	90	518598	240@0	DFT_QAM16	86.210	86.730	PASS
n41	30	90	518598	240@0	DFT_QAM64	86.200	86.660	PASS
n41	30	90	518598	240@0	DFT_QAM256	86.540	86.680	PASS
n41	30	100	518598	270@0	DFT_BPSK	96.060	97.550	PASS
n41	30	100	518598	270@0	DFT_QPSK	96.150	97.550	PASS
n41	30	100	518598	270@0	DFT_QAM16	96.040	97.570	PASS
n41	30	100	518598	270@0	DFT_QAM64	96.030	97.500	PASS
n41	30	100	518598	270@0	DFT_QAM256	96.160	97.560	PASS

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



n41 SCS=30kHz DFT_BPSK BW=20MHz Channel=518598 RB=50@0



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



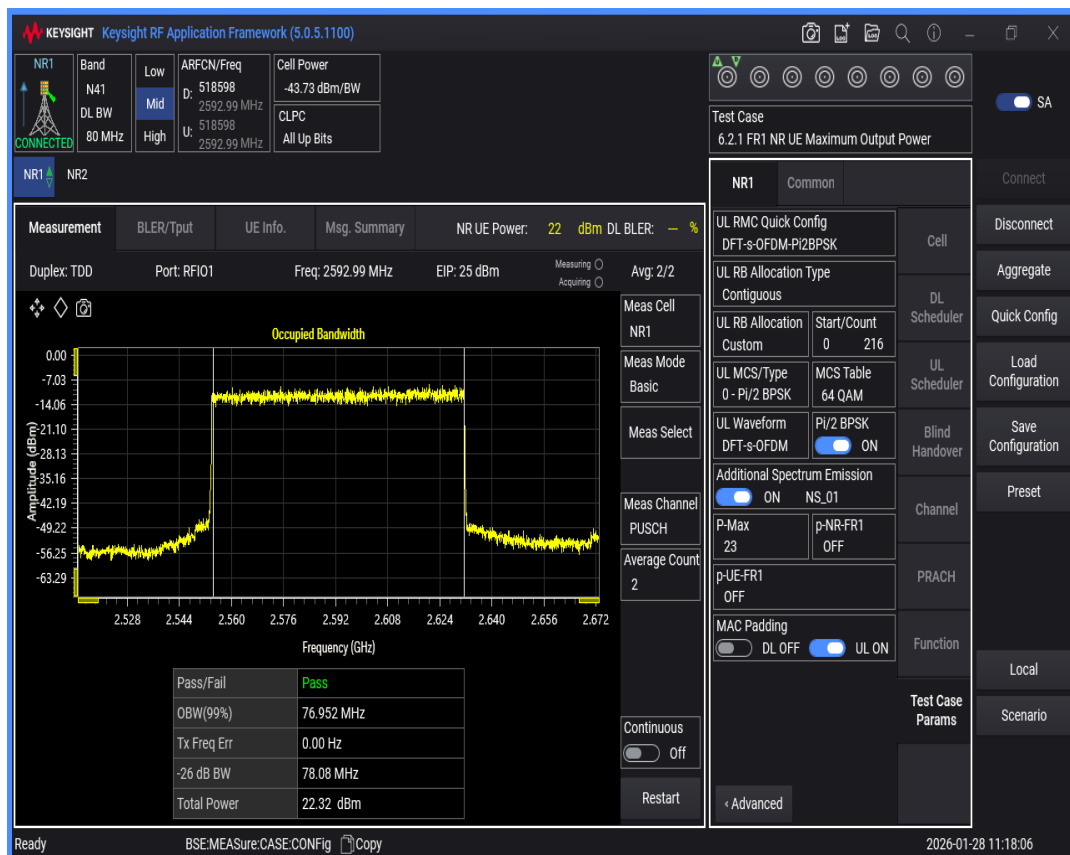
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n41 SCS=30kHz DFT_BPSK BW=60MHz Channel=518598 RB=162@0



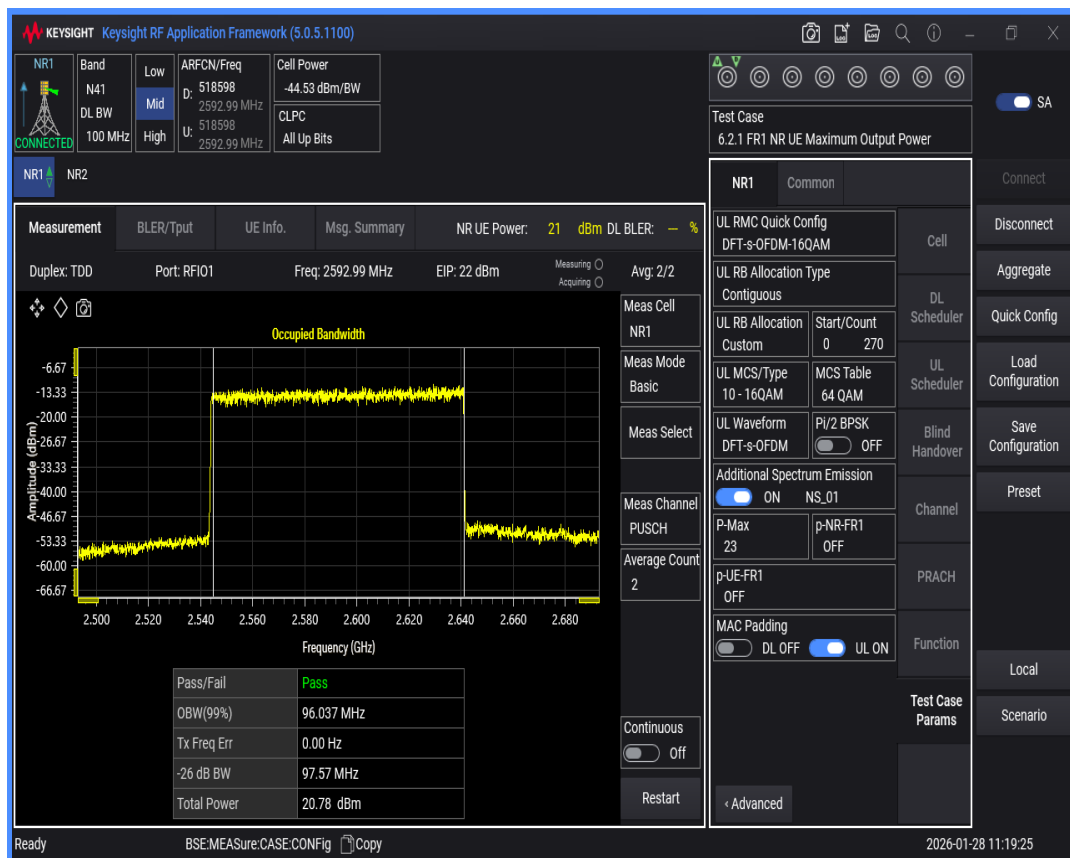
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n41 SCS=30kHz DFT_BPSK BW=90MHz Channel=518598 RB=240@0



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n41 SCS=30kHz DFT_QAM16 BW=20MHz Channel=518598 RB=50@0



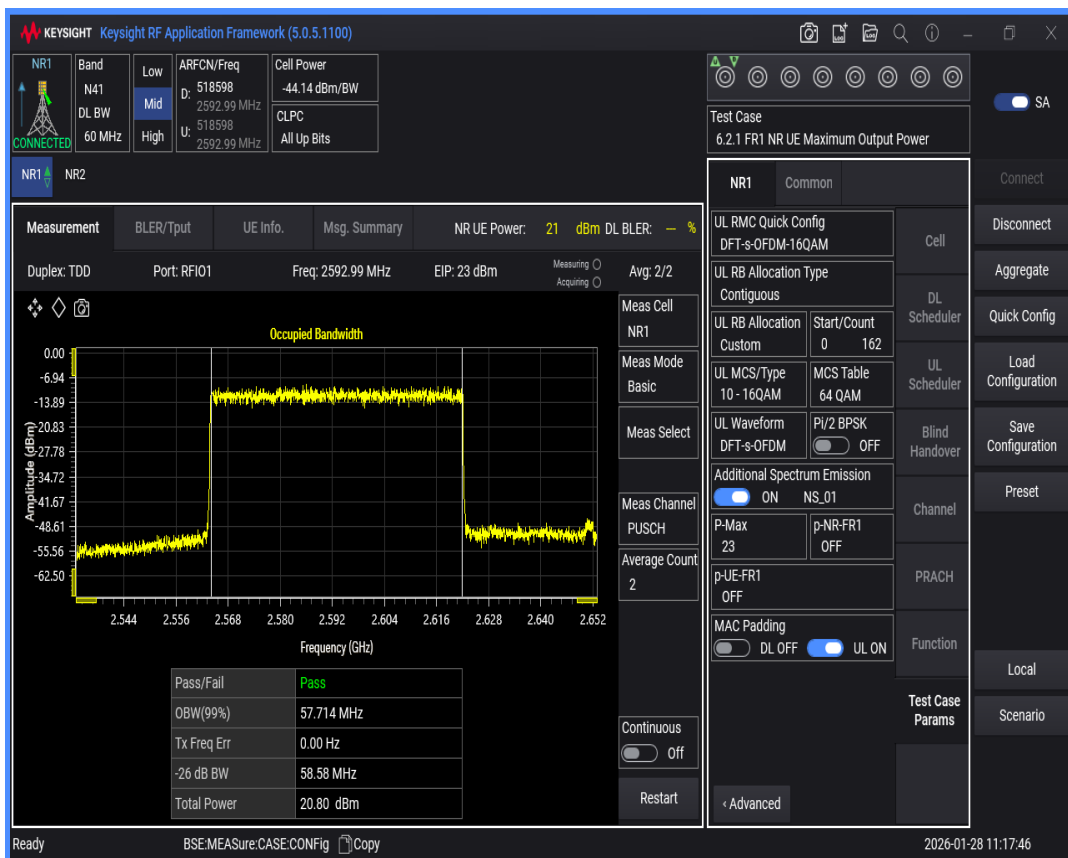
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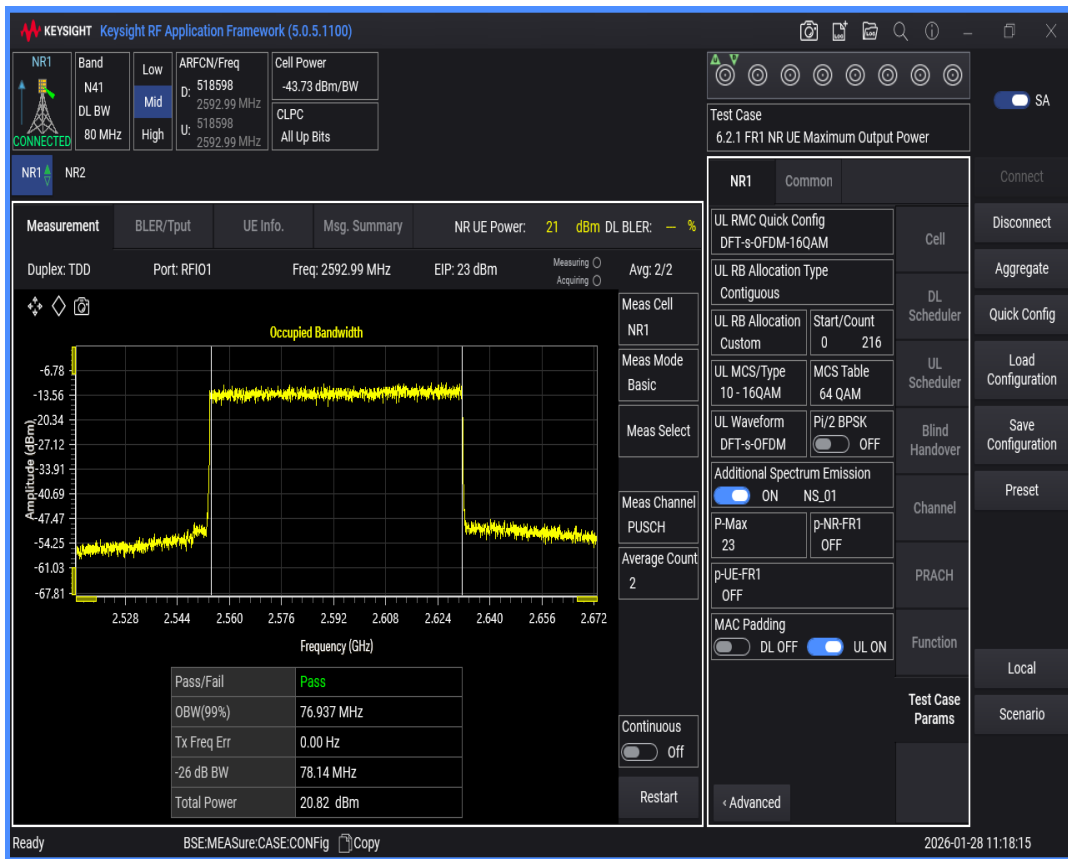
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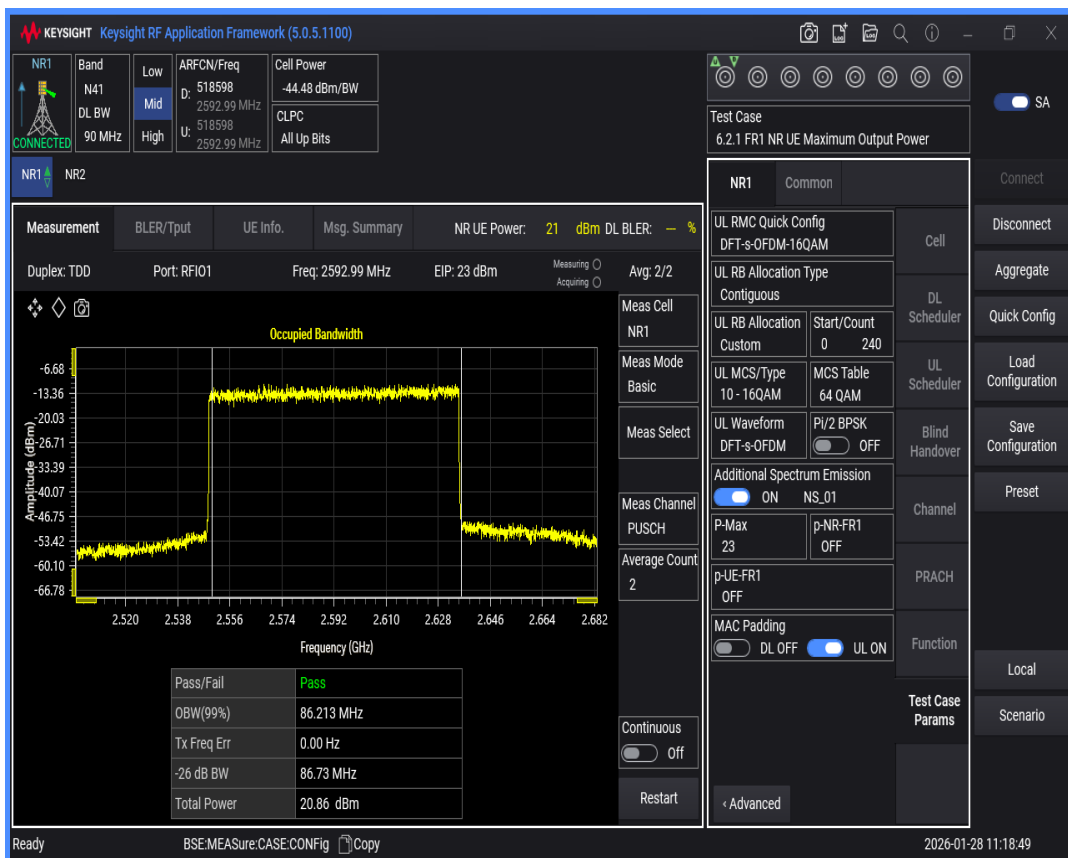
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n41 SCS=30kHz DFT_QAM16 BW=80MHz Channel=518598 RB=216@0



n41 SCS=30kHz DFT_QAM16 BW=90MHz Channel=518598 RB=240@0



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



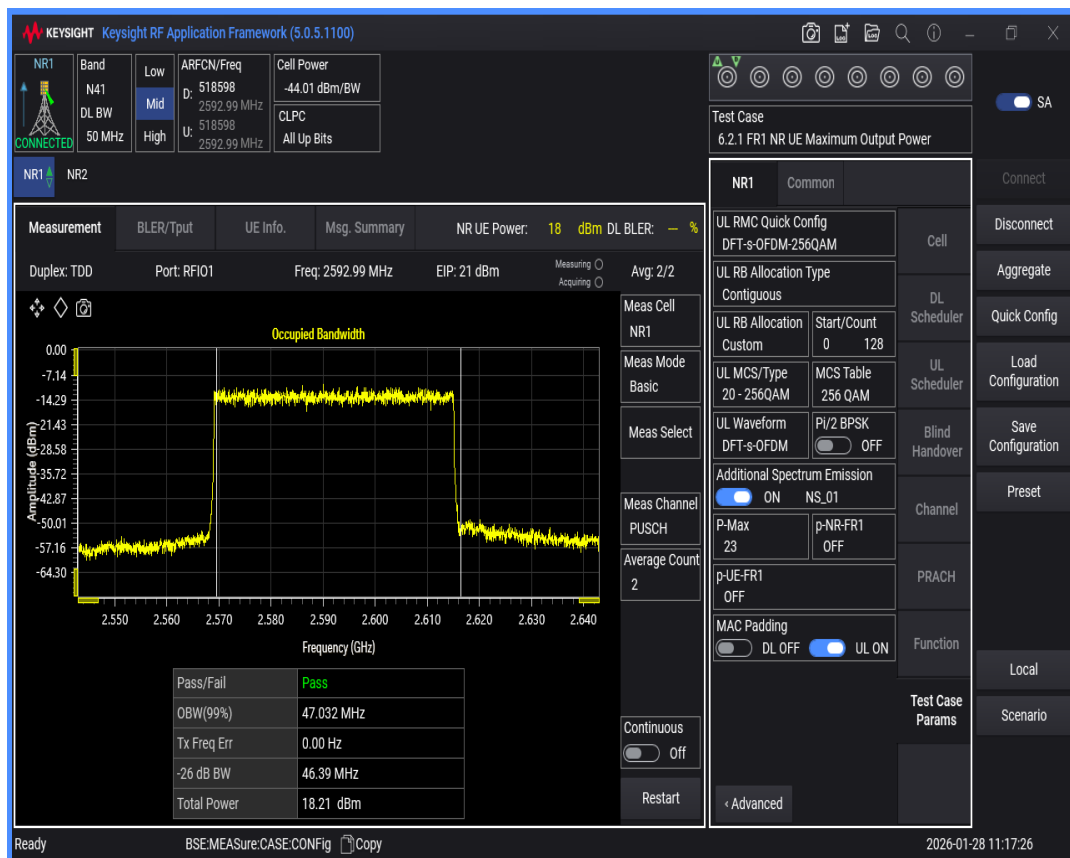
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n41 SCS=30kHz DFT_QAM256 BW=40MHz Channel=518598 RB=100@0



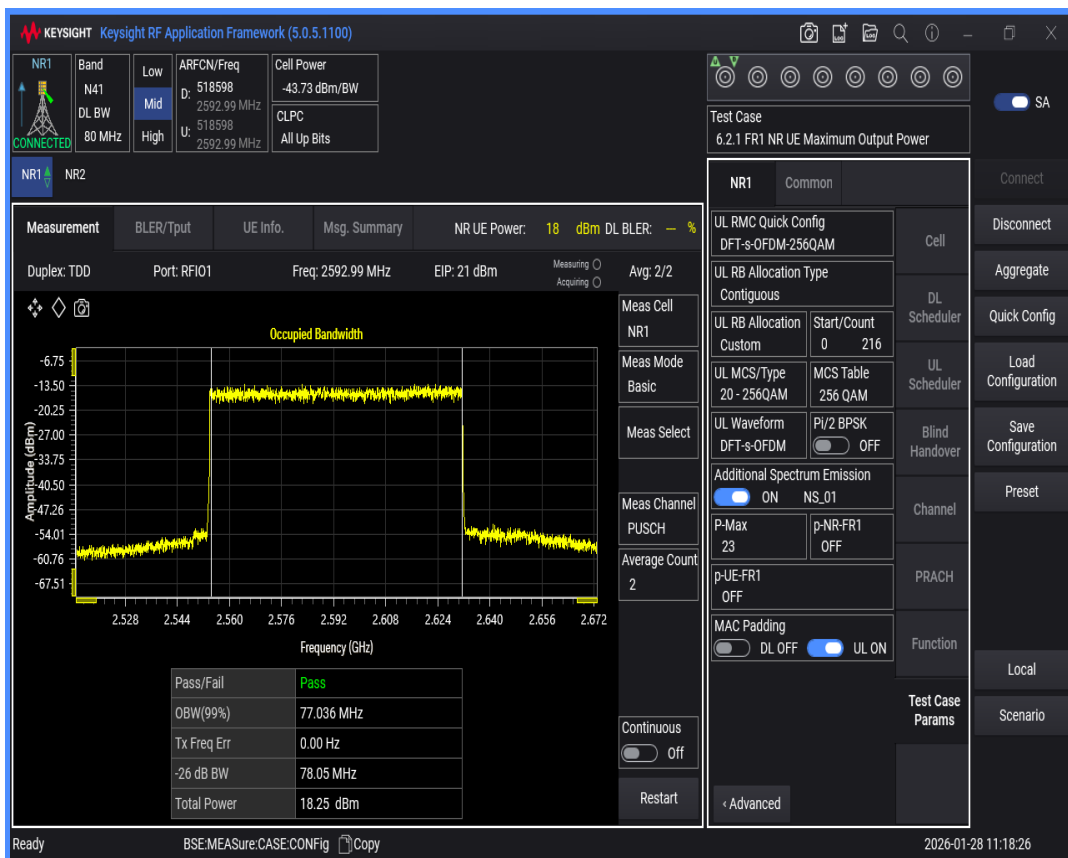
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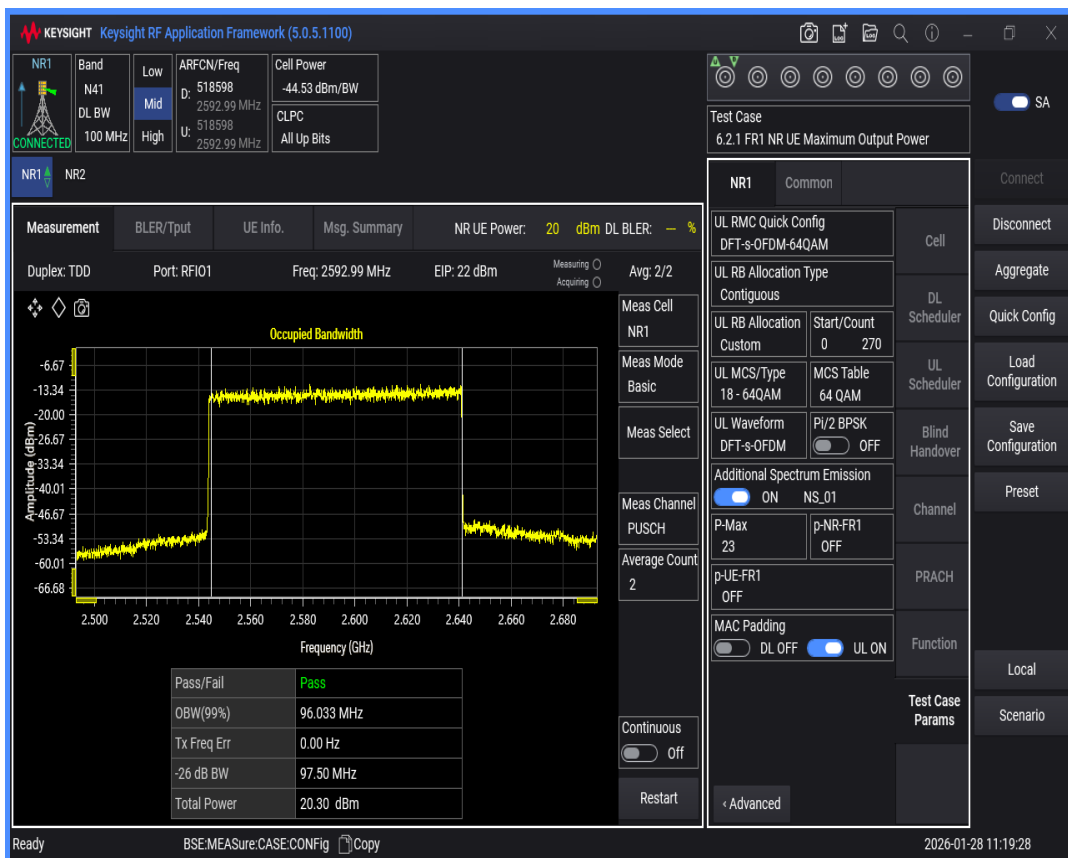
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n41 SCS=30kHz DFT_QAM256 BW=90MHz Channel=518598 RB=240@0



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



n41 SCS=30kHz DFT_QAM64 BW=20MHz Channel=518598 RB=50@0



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



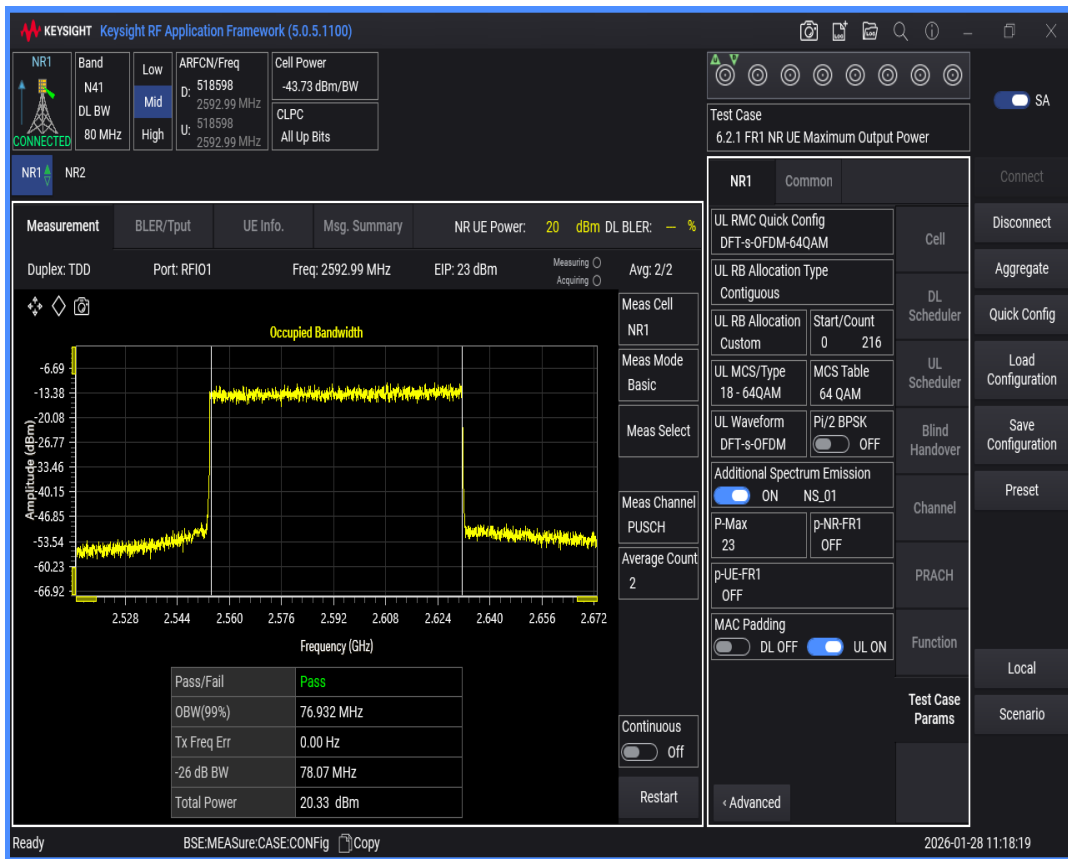
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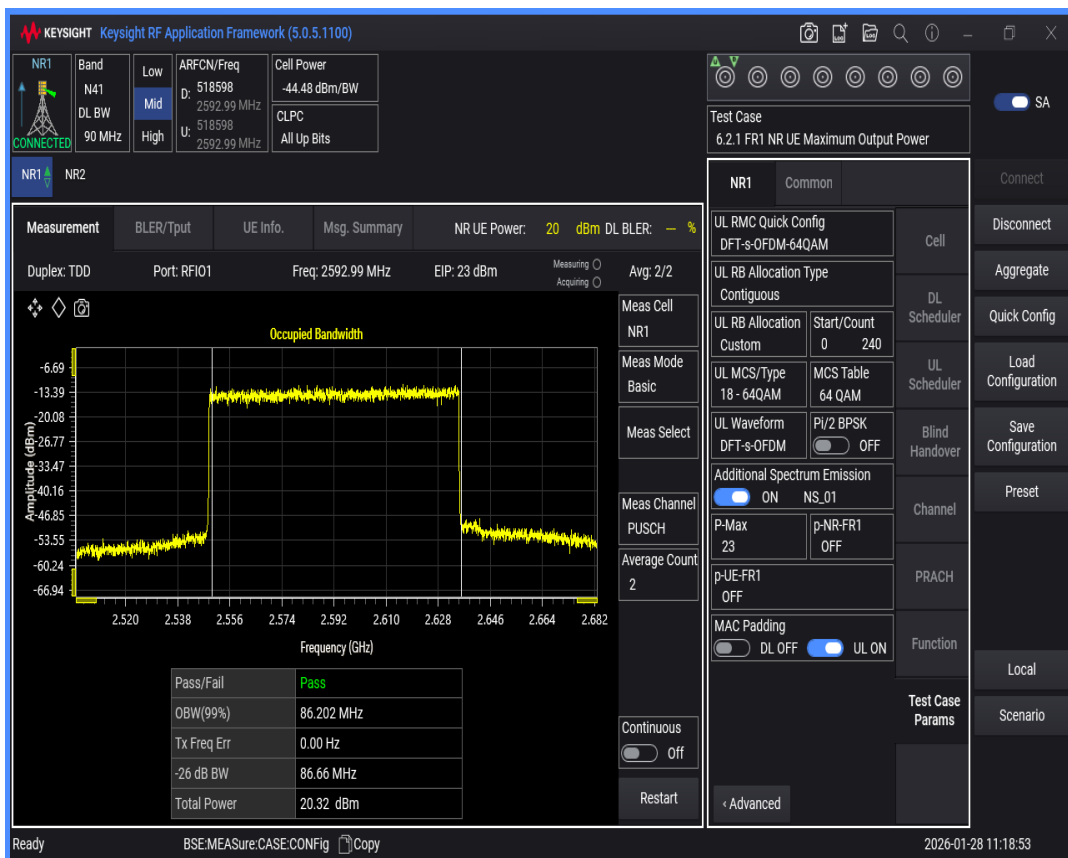
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n41 SCS=30kHz DFT_QAM64 BW=80MHz Channel=518598 RB=216@0



n41 SCS=30kHz DFT_QAM64 BW=90MHz Channel=518598 RB=240@0



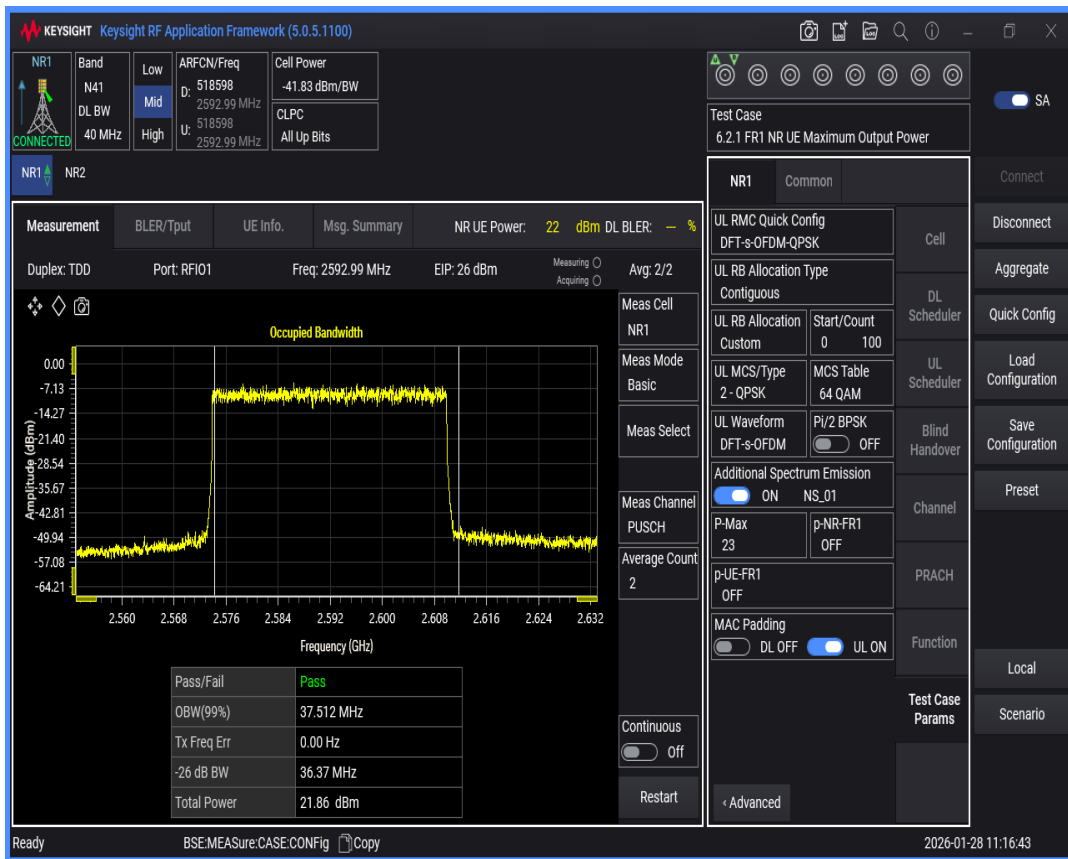
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n41 SCS=30kHz DFT_QPSK BW=20MHz Channel=518598 RB=50@0



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



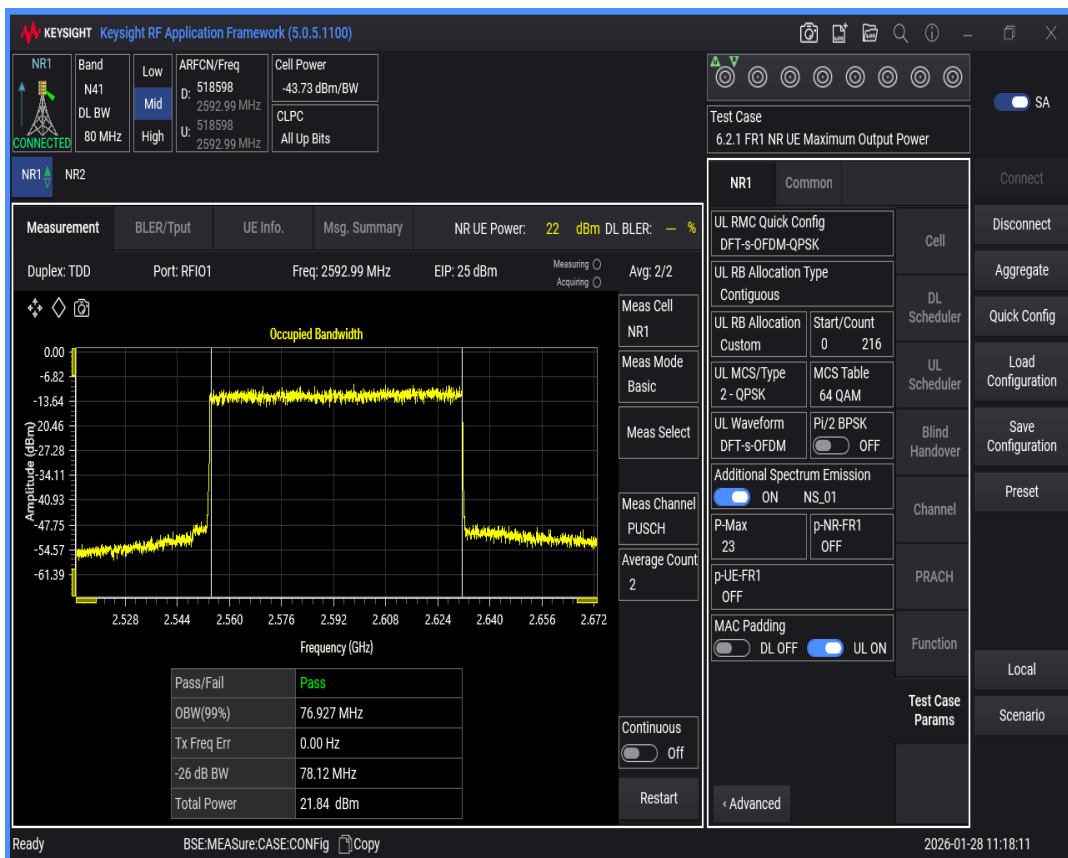
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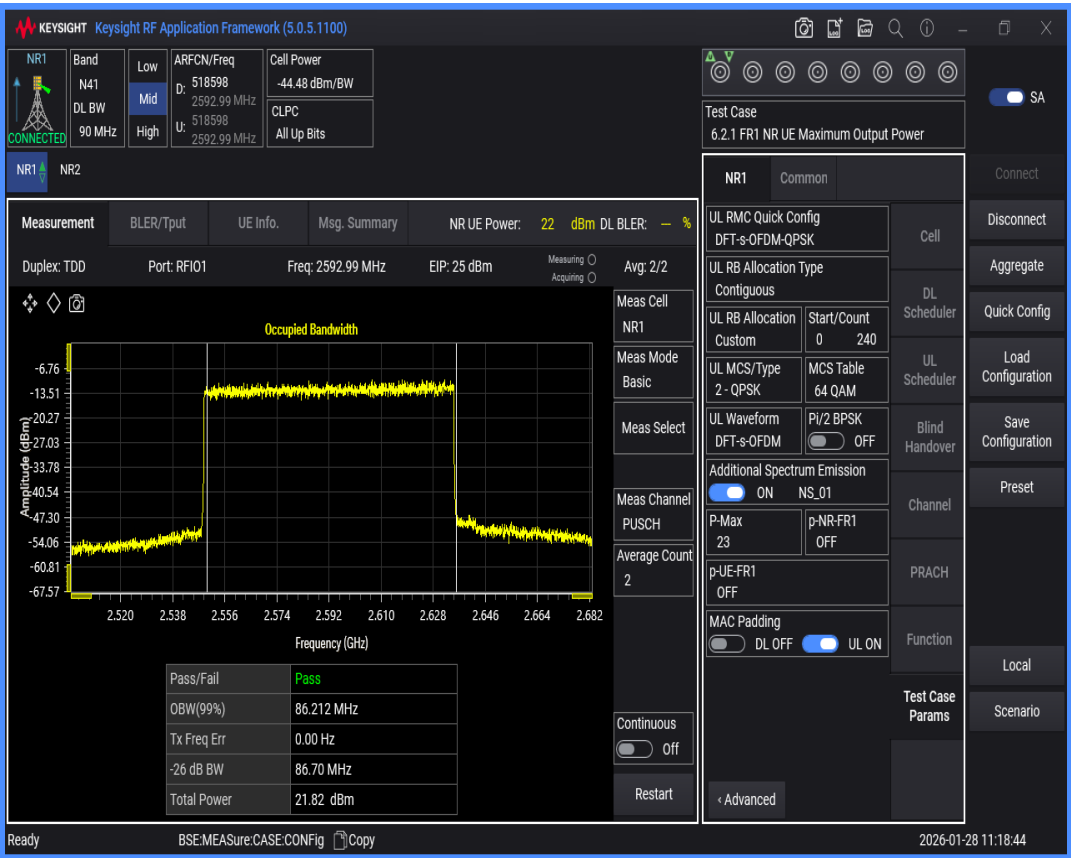
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n41 SCS=30kHz DFT_QPSK BW=80MHz Channel=518598 RB=216@0



n41 SCS=30kHz DFT_QPSK BW=90MHz Channel=518598 RB=240@0



Meas Cell

NR1

Meas Mode

Basic

Meas Select

Meas Channel

PUSCH

Average Count

2

Continuous

Off

Restart

Measurement

BLER/Tput

UE Info.

Msg. Summary

NR UE Power: 22 dBm DL BLER: - %

Duplex: TDD

Port: RFIO1

Freq: 2592.99 MHz

EIP: 25 dBm

Measuring

Acquiring

Avg: 2/2

Occupied Bandwidth

Amplitude (dBm)

-6.76

-13.51

20.27

27.03

40.54

47.30

-54.06

-60.81

-67.57

Frequency (GHz)

2.520

2.538

2.556

2.574

2.592

2.610

2.628

2.646

2.664

2.682

Pass/Fail

Pass

OBW(99%)

86.212 MHz

Tx Freq Err

0.00 Hz

-26 dB BW

86.70 MHz

Total Power

21.82 dBm

Ready

BSE.MEASure.CASE.CONFig

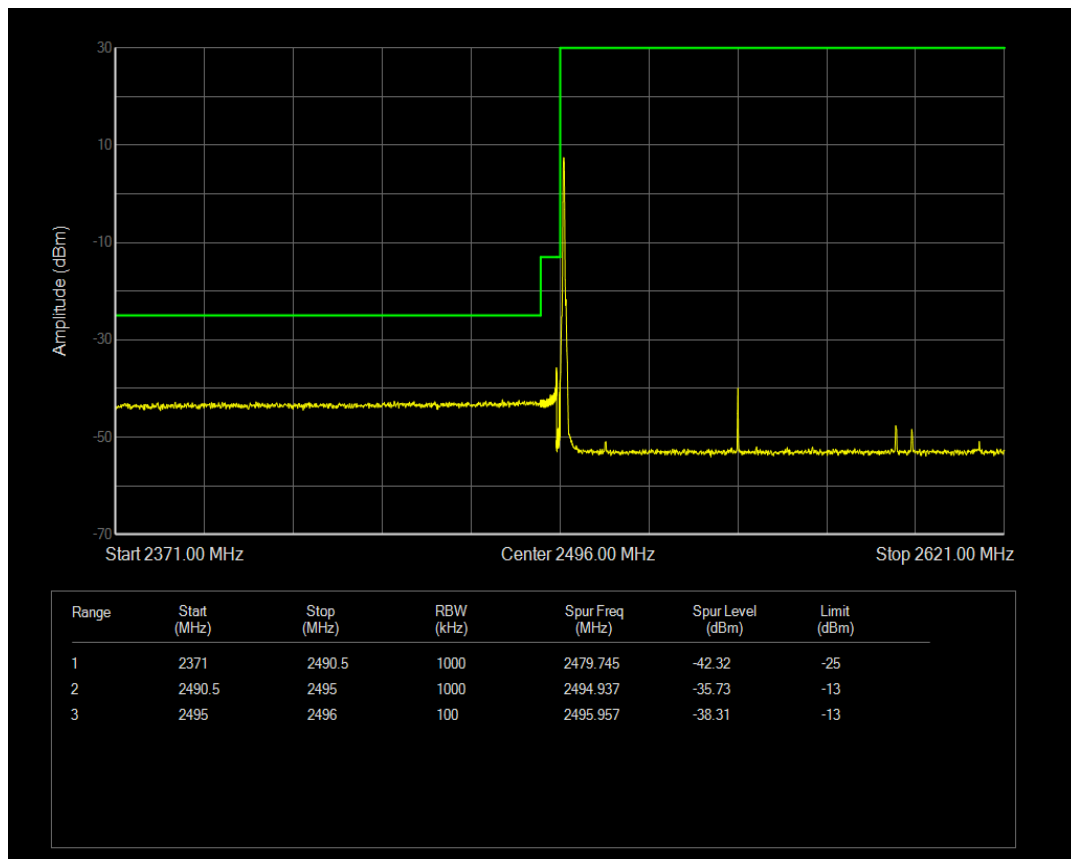
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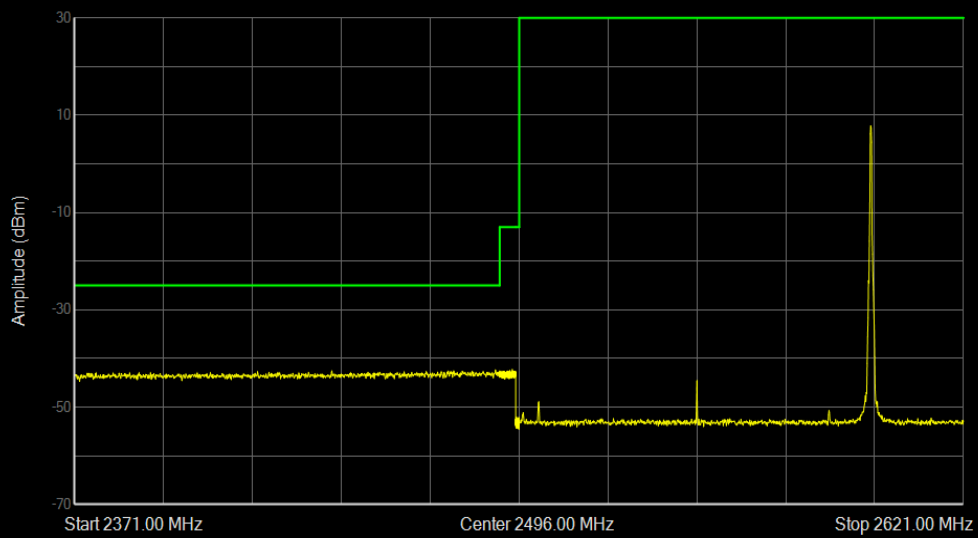
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n41	30	20	501204	51@0	CP_QPSK	2488.78	-33.77	-25	PASS
n41	30	20	501204	1@0	CP_QPSK	2488.80	-42.48	-25	PASS
n41	30	20	501204	1@50	CP_QPSK	2485.80	-42.22	-25	PASS
n41	30	20	535998	51@0	CP_QPSK	2710.15	-39.30	-25	PASS
n41	30	20	535998	1@0	CP_QPSK	2710.93	-42.34	-25	PASS
n41	30	20	535998	1@50	CP_QPSK	2711.95	-42.35	-25	PASS
n41	30	50	504204	133@0	CP_QPSK	2487.88	-40.77	-25	PASS
n41	30	50	504204	1@0	CP_QPSK	2488.79	-42.57	-25	PASS
n41	30	50	504204	1@132	CP_QPSK	2486.68	-42.59	-25	PASS
n41	30	50	532998	133@0	CP_QPSK	2690.00	-25.92	-10	PASS
n41	30	50	532998	1@0	CP_QPSK	2746.86	-42.27	-25	PASS
n41	30	50	532998	1@132	CP_QPSK	2750.08	-42.26	-25	PASS
n41	30	100	509202	273@0	CP_QPSK	2495.99	-22.22	-13	PASS
n41	30	100	509202	1@0	CP_QPSK	2479.75	-42.32	-25	PASS
n41	30	100	509202	1@272	CP_QPSK	2489.31	-42.34	-25	PASS
n41	30	100	528000	273@0	CP_QPSK	2690.02	-24.49	-10	PASS
n41	30	100	528000	1@0	CP_QPSK	2808.00	-42.45	-25	PASS
n41	30	100	528000	1@272	CP_QPSK	2802.85	-42.34	-25	PASS

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

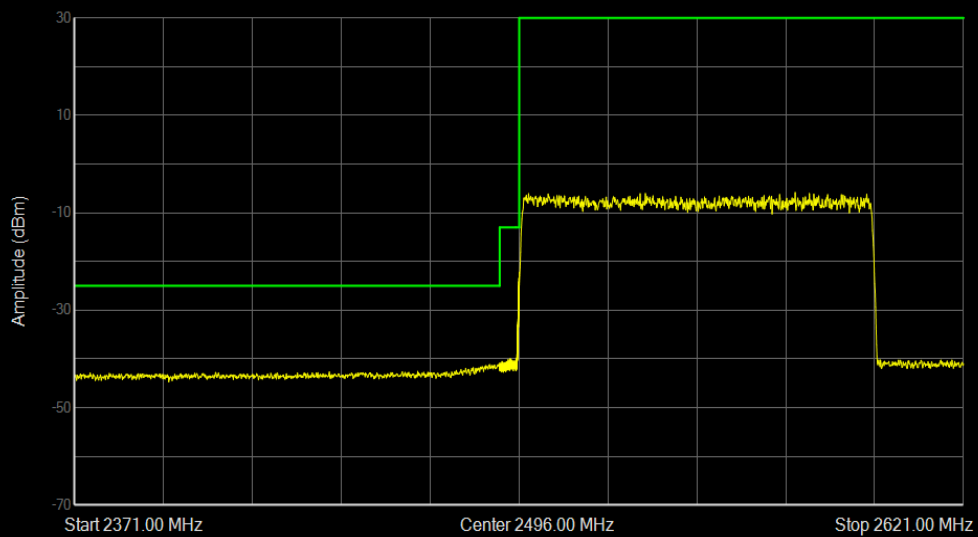


n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=1@272



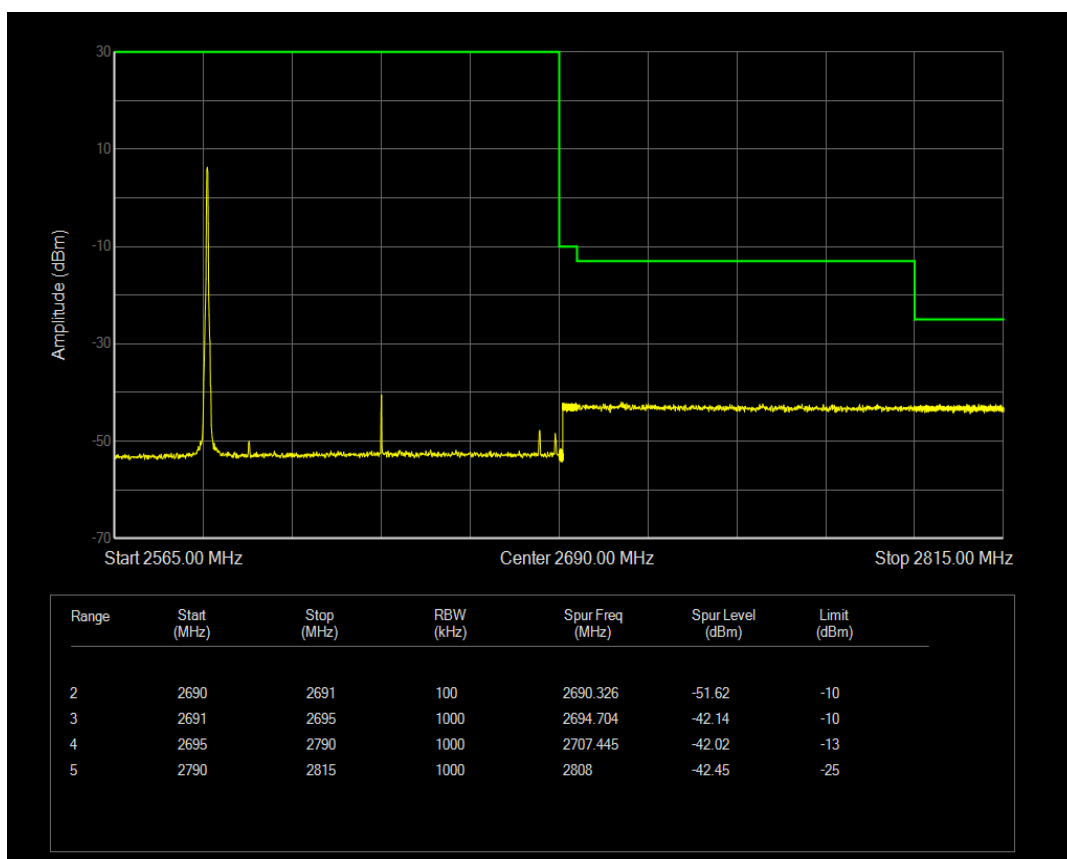
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2371	2490.5	1000	2489.305	-42.34	-25
2	2490.5	2495	1000	2494.055	-42.27	-13
3	2495	2496	100	2495.131	-52.08	-13

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

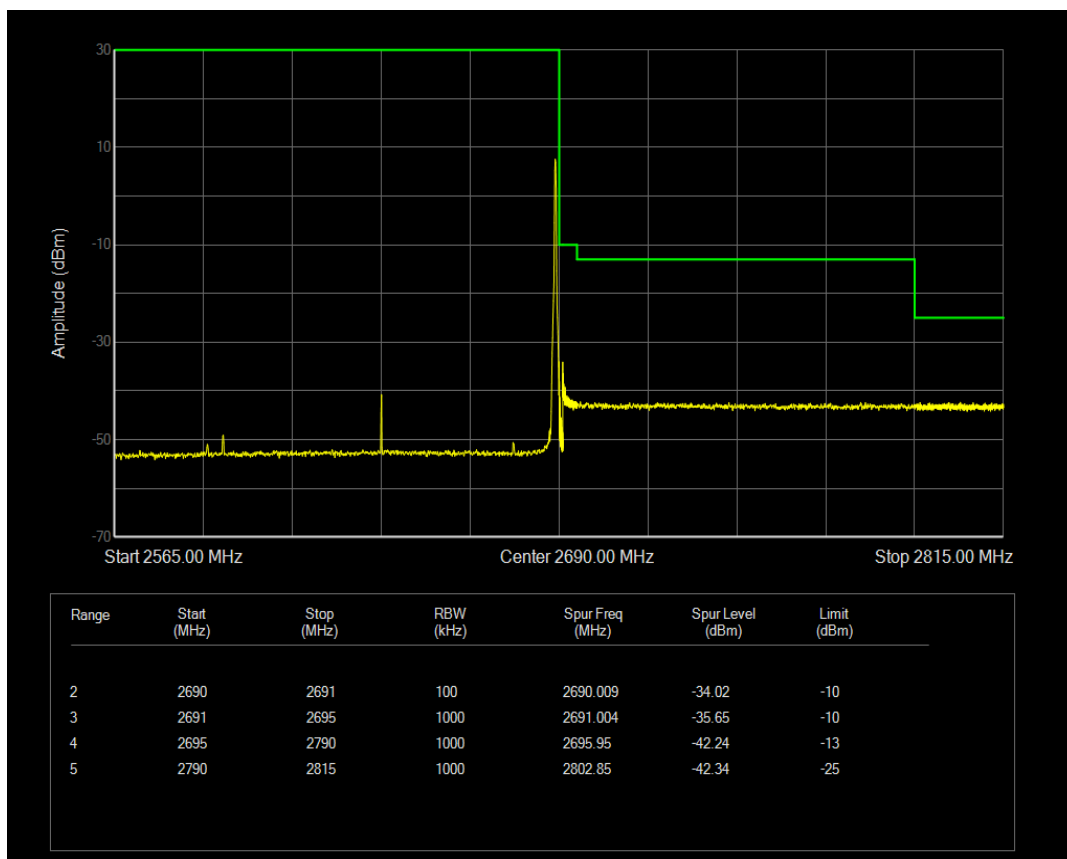


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2371	2490.5	1000	2487.632	-41.16	-25
2	2490.5	2495	1000	2493.4835	-39.91	-13
3	2495	2496	1000	2495.994	-22.22	-13

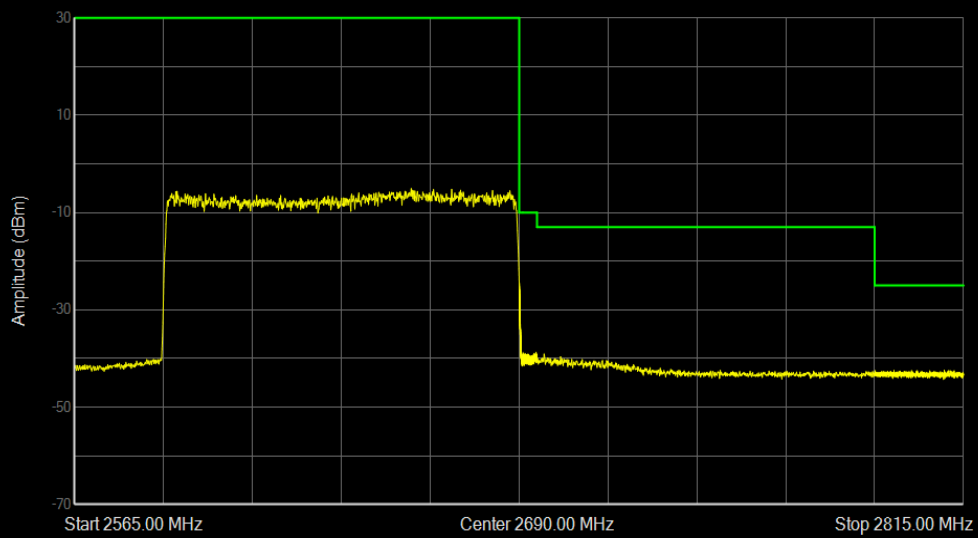
n41 SCS=30kHz CP_QPSK BW=100MHz Channel=528000 RB=1@0



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



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



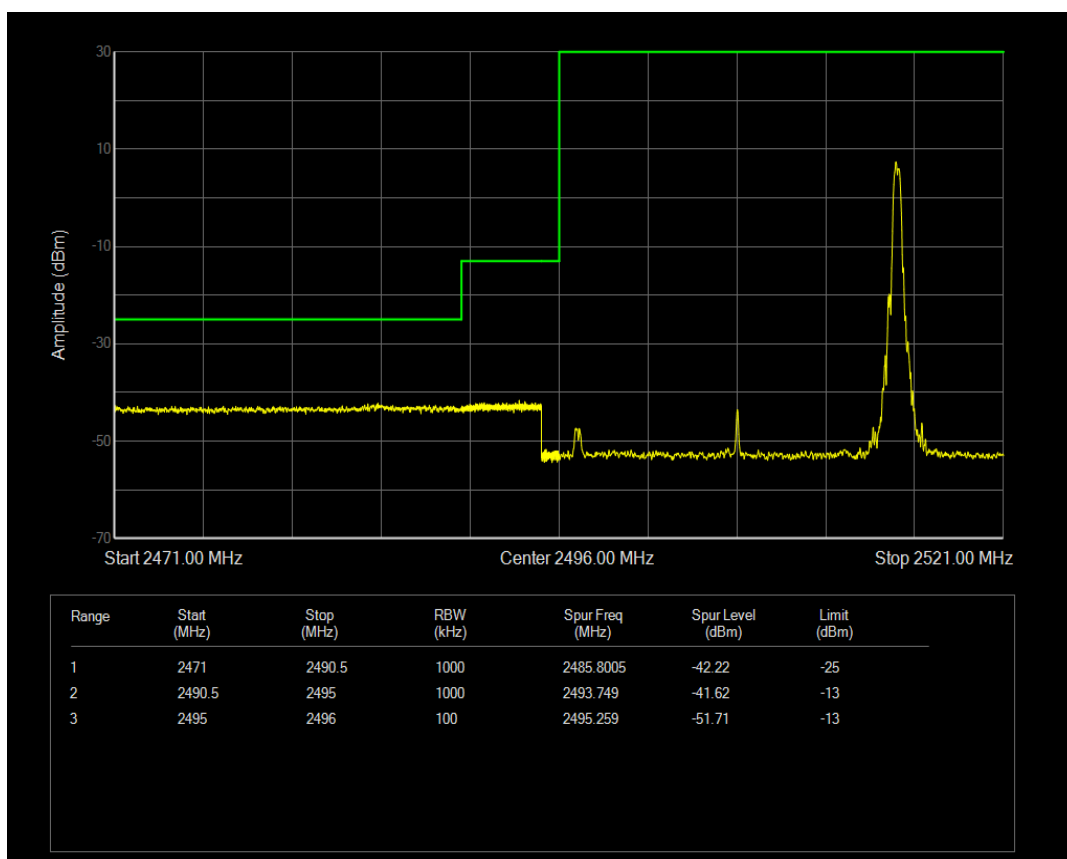
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	1000	2690.02	-24.49	-10
3	2691	2695	1000	2694.752	-38.74	-10
4	2695	2790	1000	2696.995	-39.08	-13
5	2790	2815	1000	2809.55	-42.39	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=1@0

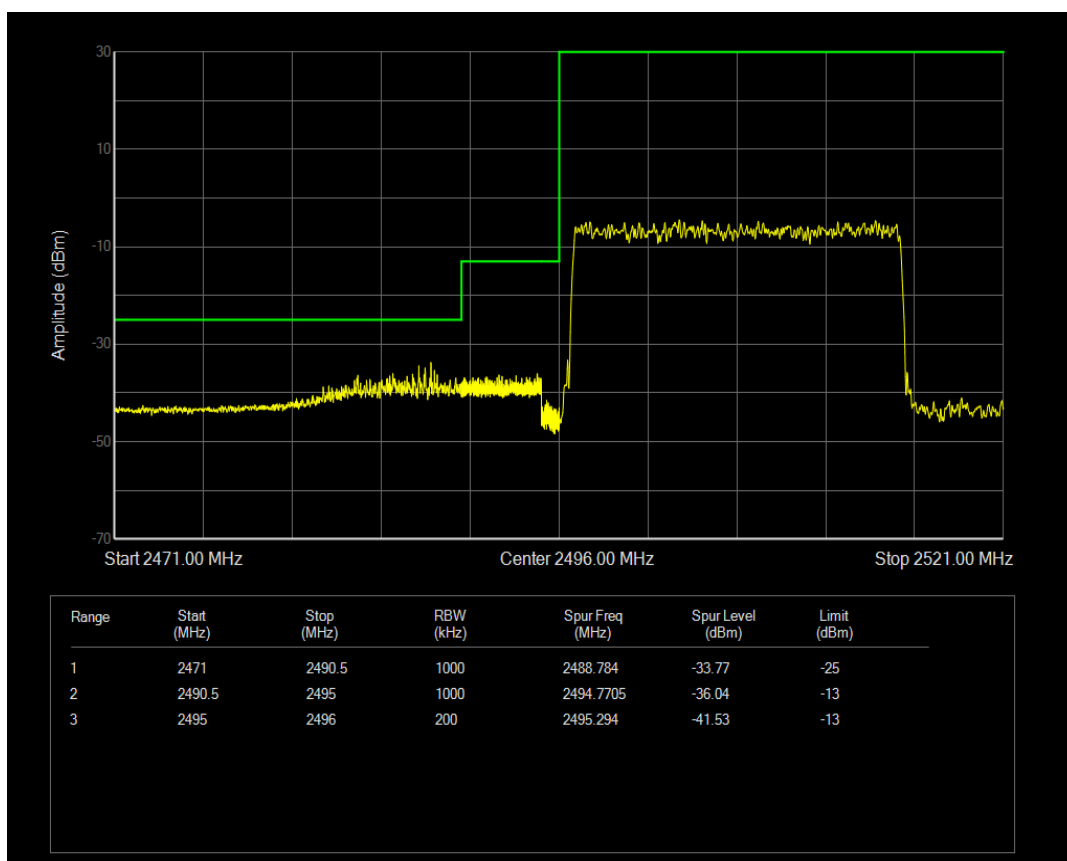


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2471	2490.5	1000	2488.8035	-42.48	-25
2	2490.5	2495	1000	2494.982	-38.64	-13
3	2495	2496	100	2495.984	-44	-13

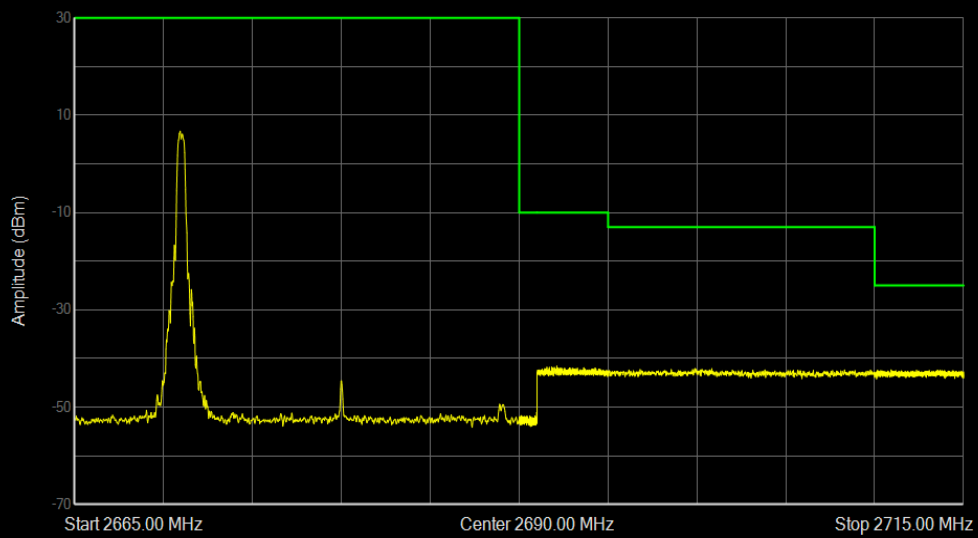
n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=1@50



n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=51@0

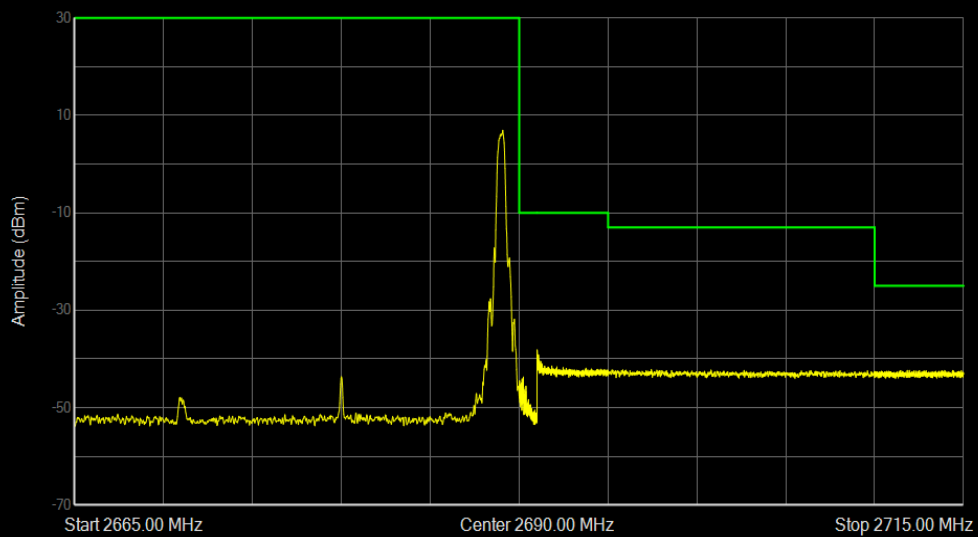


n41 SCS=30kHz CP_QPSK BW=20MHz Channel=535998 RB=1@0



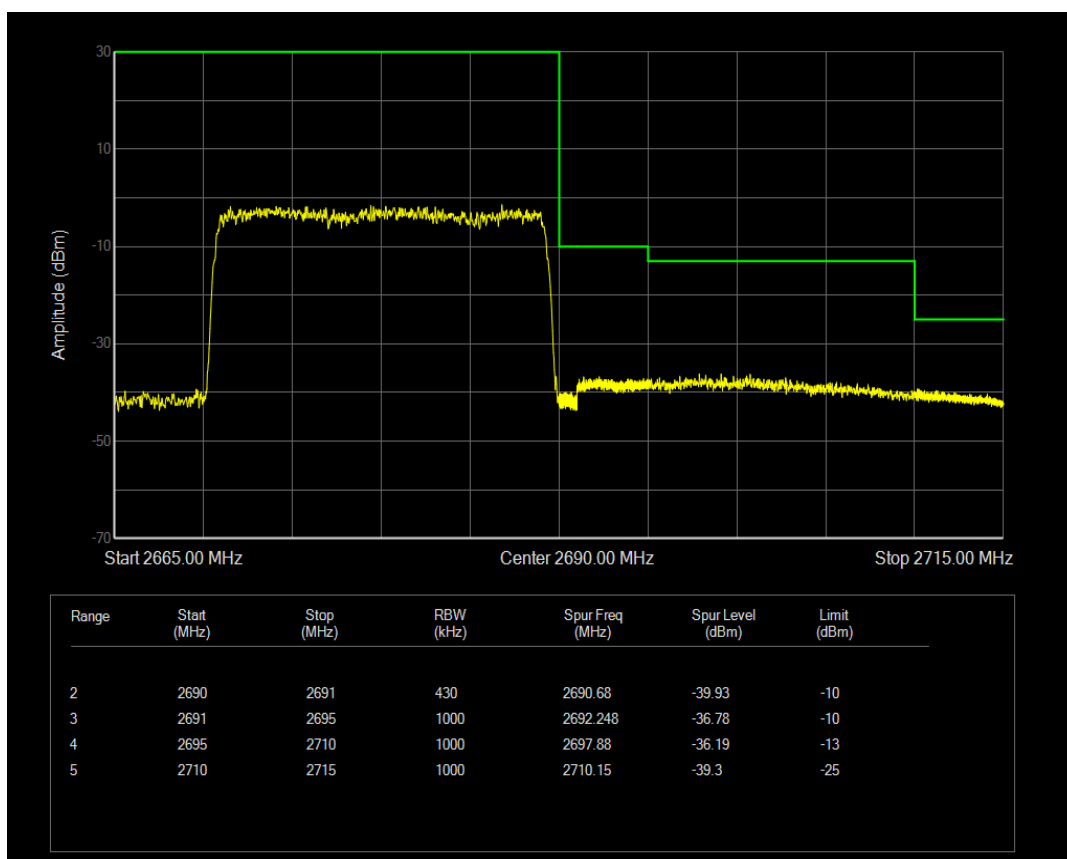
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.989	-51.05	-10
3	2691	2695	1000	2692.116	-41.57	-10
4	2695	2710	1000	2699.905	-42.07	-13
5	2710	2715	1000	2710.925	-42.34	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=535998 RB=1@50

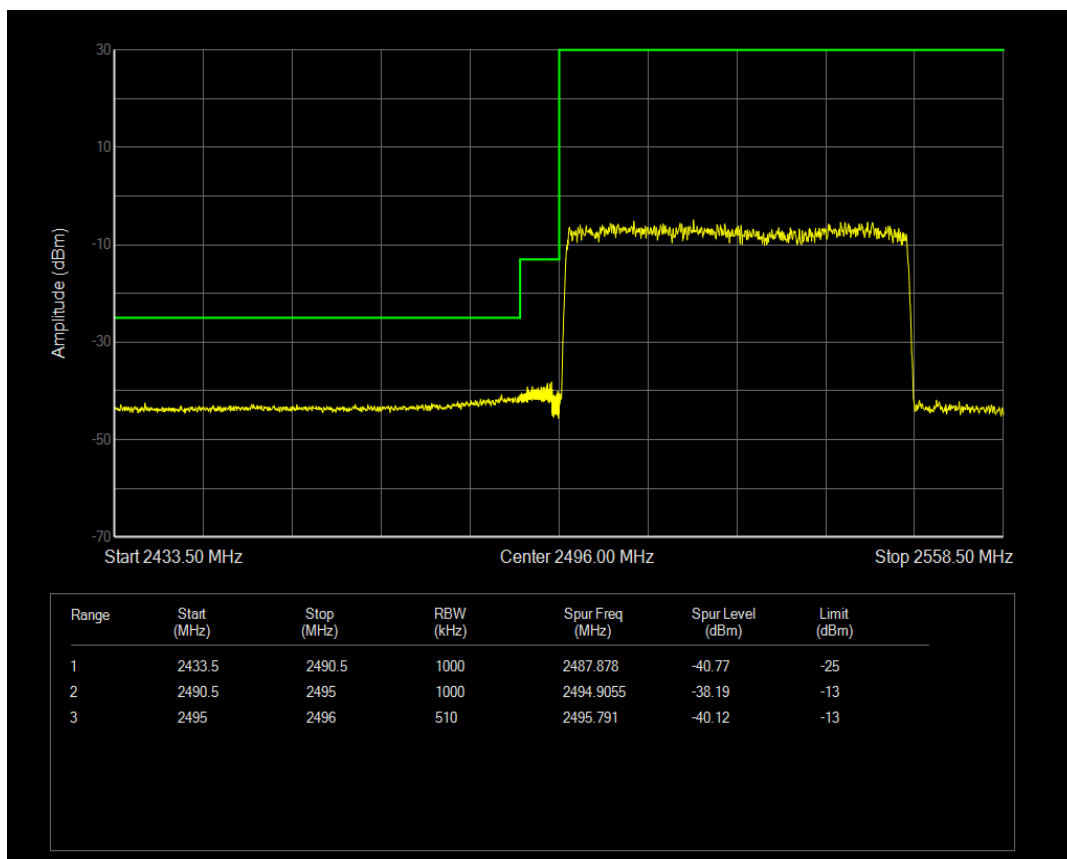


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.235	-43.72	-10
3	2691	2695	1000	2691.008	-38.14	-10
4	2695	2710	1000	2697.43	-42.17	-13
5	2710	2715	1000	2711.95	-42.35	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=535998 RB=51@0



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

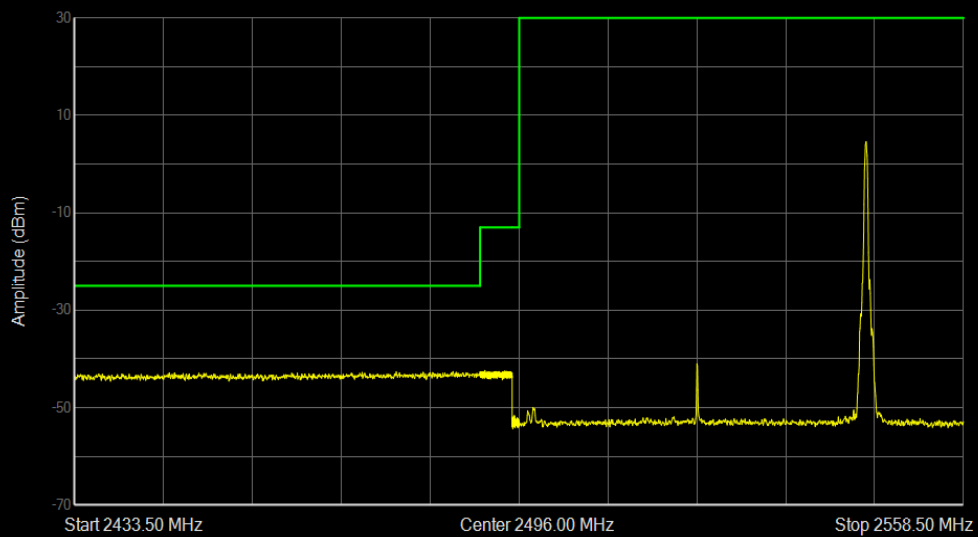


n41 SCS=30kHz CP_QPSK BW=50MHz Channel=504204 RB=1@0



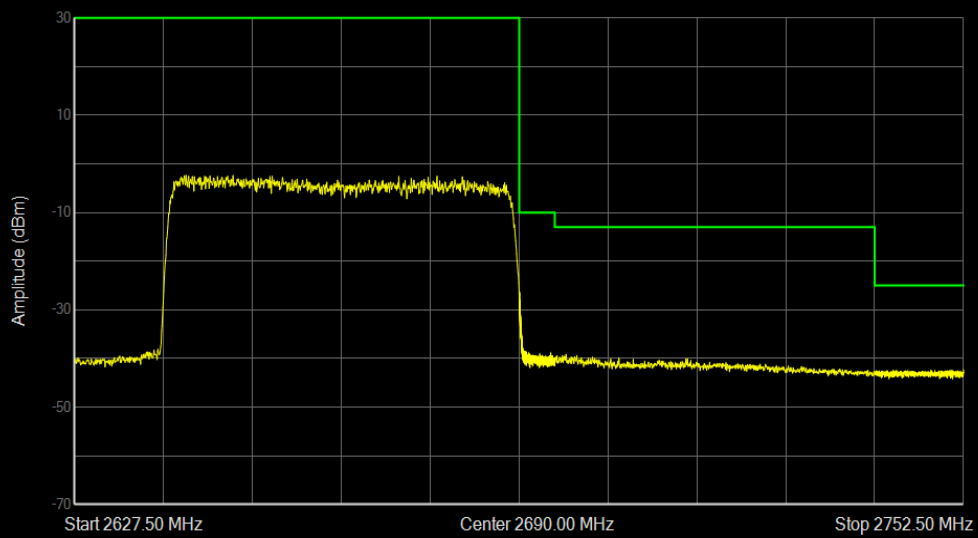
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2433.5	2490.5	1000	2488.79	-42.57	-25
2	2490.5	2495	1000	2494.991	-39.33	-13
3	2495	2496	100	2495.986	-41.81	-13

n41 SCS=30kHz CP_QPSK BW=50MHz Channel=504204 RB=1@132



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2433.5	2490.5	1000	2486.681	-42.59	-25
2	2490.5	2495	1000	2491.1795	-42.36	-13
3	2495	2496	100	2495.312	-51.65	-13

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



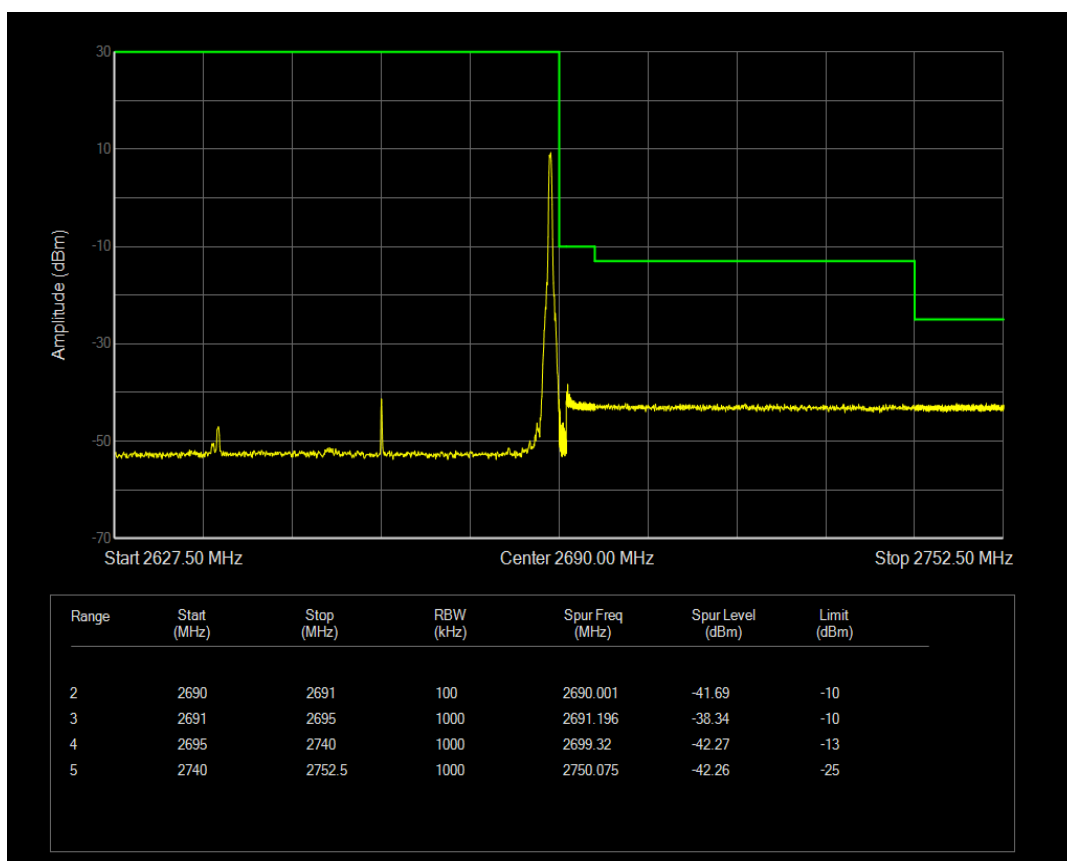
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	1000	2690.003	-25.92	-10
3	2691	2695	1000	2691.02	-38.65	-10
4	2695	2740	1000	2696.575	-39.15	-13
5	2740	2752.5	1000	2752.5	-42.28	-25

n41 SCS=30kHz CP_QPSK BW=50MHz Channel=532998 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.256	-51.54	-10
3	2691	2695	1000	2693.584	-42.1	-10
4	2695	2740	1000	2709.4	-42.08	-13
5	2740	2752.5	1000	2746.8625	-42.27	-25

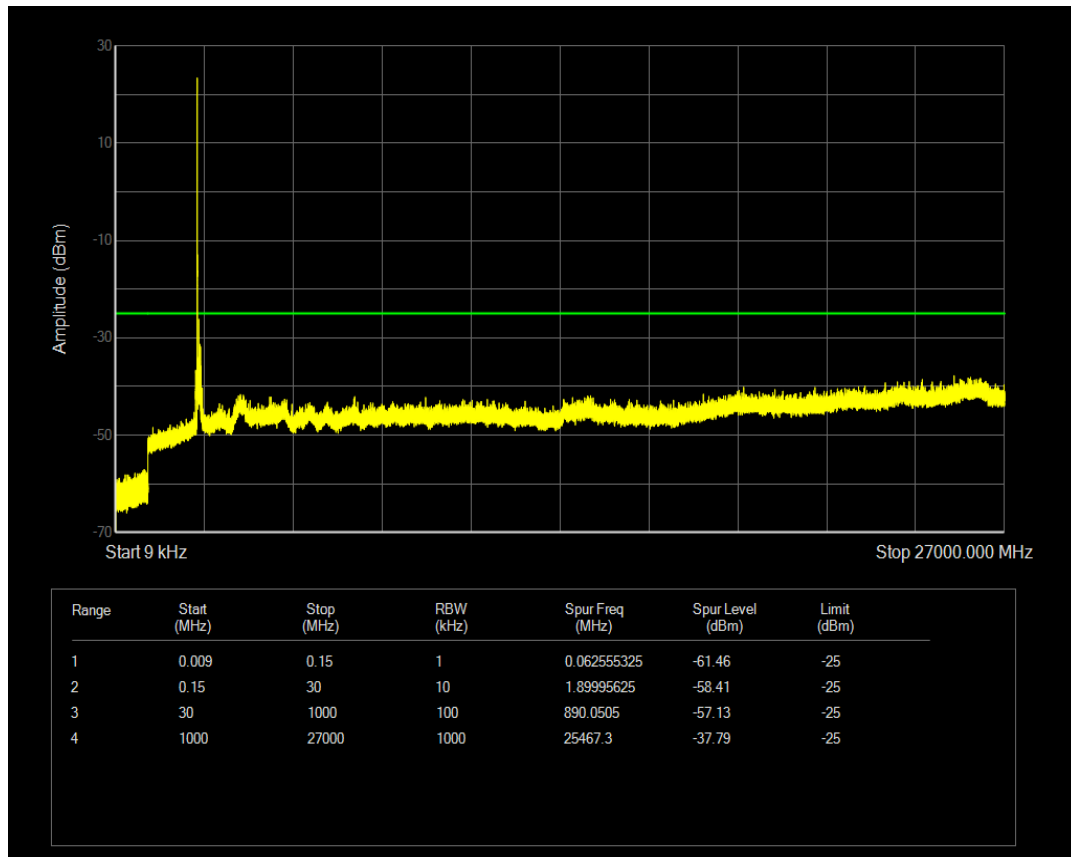
n41 SCS=30kHz CP_QPSK BW=50MHz Channel=532998 RB=1@132



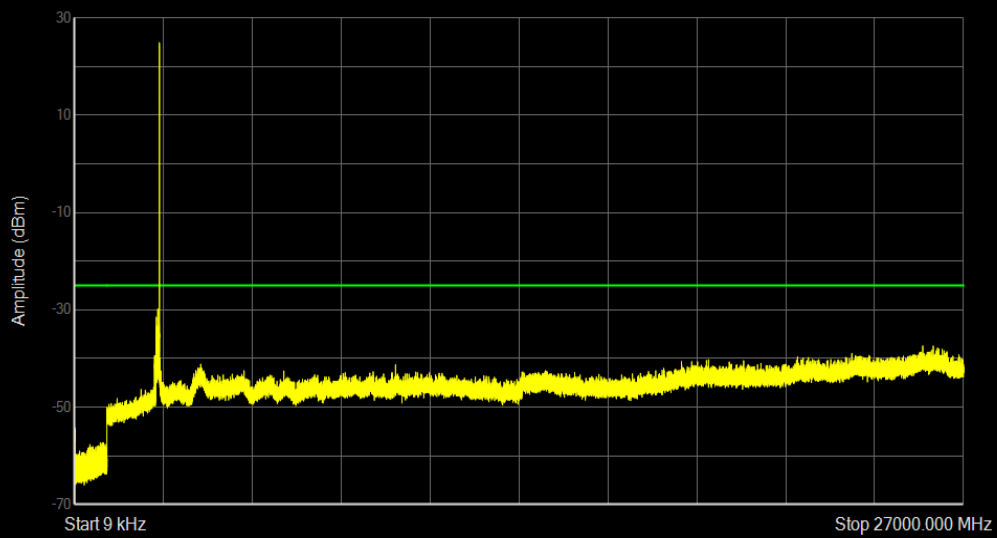
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n41	30	20	501204	51@0	CP_QPSK	25748.10	-37.60	-25	PASS
n41	30	20	501204	1@0	CP_QPSK	26304.50	-37.61	-25	PASS
n41	30	20	501204	1@50	CP_QPSK	25885.90	-38.23	-25	PASS
n41	30	20	535998	51@0	CP_QPSK	26327.90	-37.66	-25	PASS
n41	30	20	535998	1@0	CP_QPSK	25729.90	-37.51	-25	PASS
n41	30	20	535998	1@50	CP_QPSK	26168.00	-36.09	-25	PASS
n41	30	50	504204	133@0	CP_QPSK	26114.05	-37.26	-25	PASS
n41	30	50	504204	1@0	CP_QPSK	25547.90	-37.61	-25	PASS
n41	30	50	504204	1@132	CP_QPSK	25781.90	-37.85	-25	PASS
n41	30	50	532998	133@0	CP_QPSK	25680.50	-37.71	-25	PASS
n41	30	50	532998	1@0	CP_QPSK	26370.80	-38.12	-25	PASS
n41	30	50	532998	1@132	CP_QPSK	26374.05	-37.91	-25	PASS
n41	30	100	509202	273@0	CP_QPSK	26220.00	-38.17	-25	PASS
n41	30	100	509202	1@0	CP_QPSK	25467.30	-37.79	-25	PASS
n41	30	100	509202	1@272	CP_QPSK	25763.05	-37.42	-25	PASS
n41	30	100	528000	273@0	CP_QPSK	26446.85	-38.02	-25	PASS
n41	30	100	528000	1@0	CP_QPSK	26227.80	-37.53	-25	PASS
n41	30	100	528000	1@272	CP_QPSK	26173.20	-37.53	-25	PASS

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

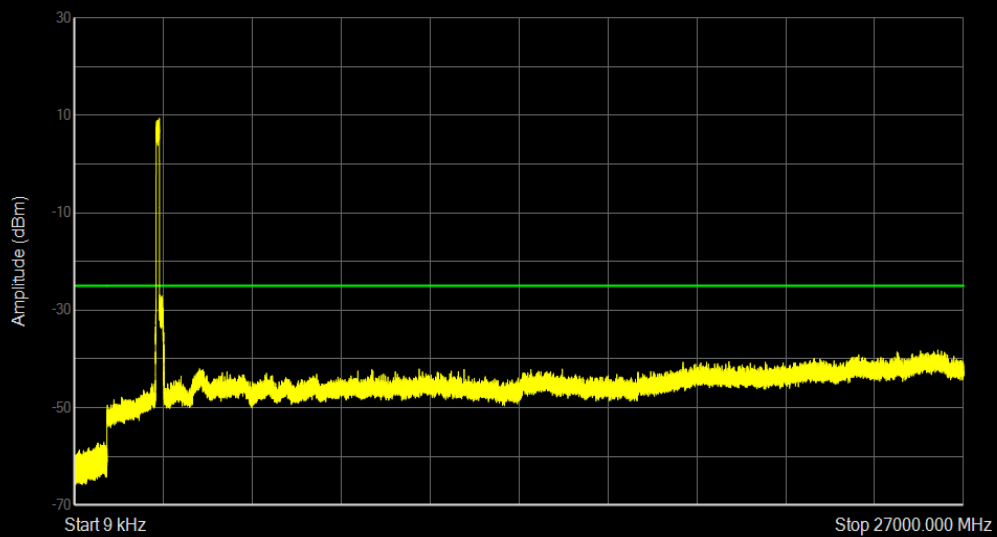


n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=1@272



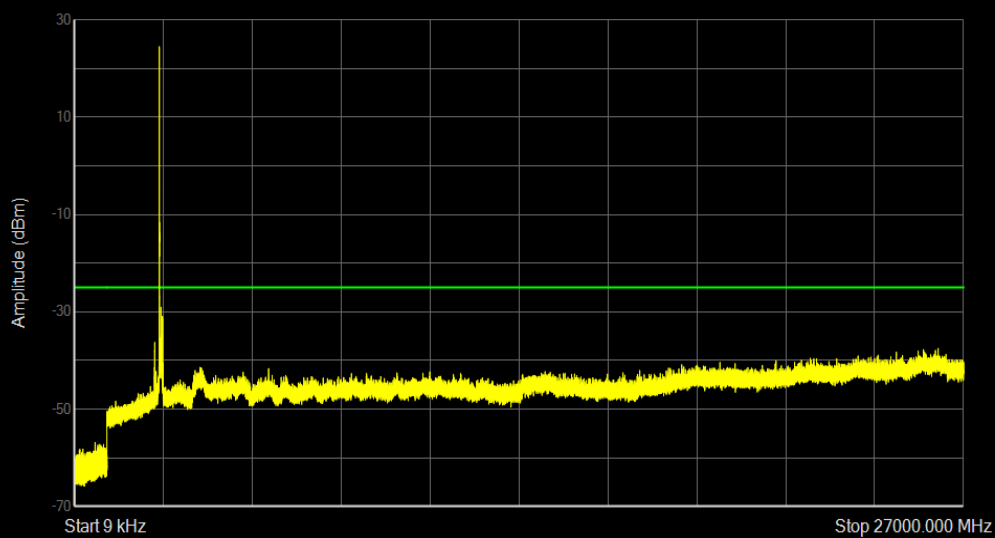
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062721	-60.76	-25
2	0.15	30	10	1.96861125	-57.53	-25
3	30	1000	100	33.71025	-54.26	-25
4	1000	27000	1000	25763.05	-37.42	-25

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



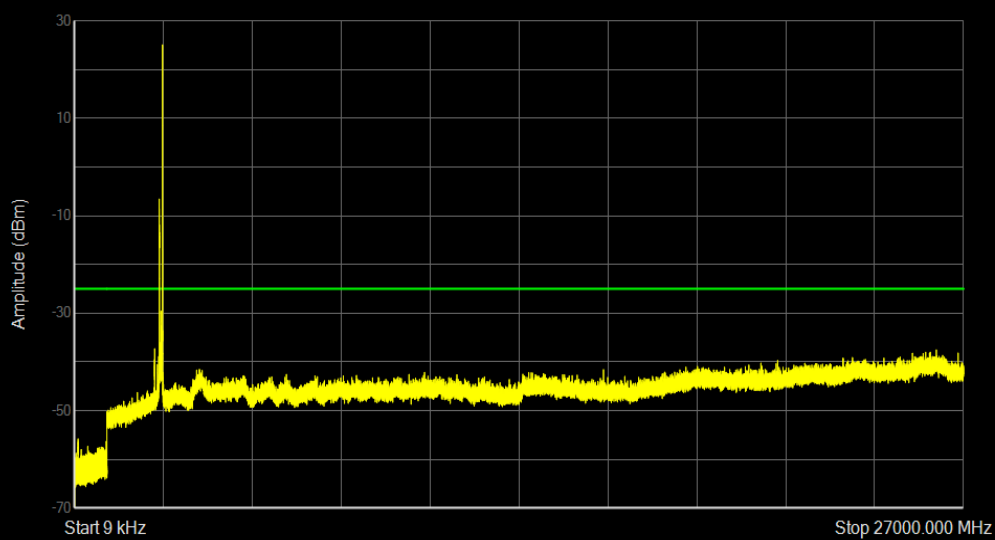
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.02539125	-51.5	-25
2	0.15	30	10	0.16716375	-57.58	-25
3	30	1000	100	911.148	-57.13	-25
4	1000	27000	1000	26220	-38.17	-25

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



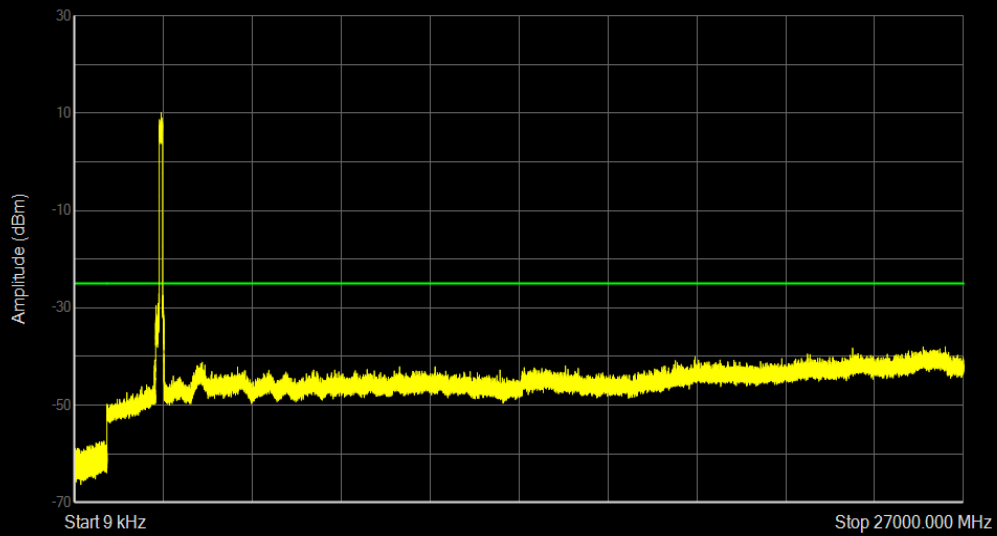
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0627915	-61.28	-25
2	0.15	30	10	2.00443125	-57.67	-25
3	30	1000	100	645.82875	-56.86	-25
4	1000	27000	1000	26227.8	-37.53	-25

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



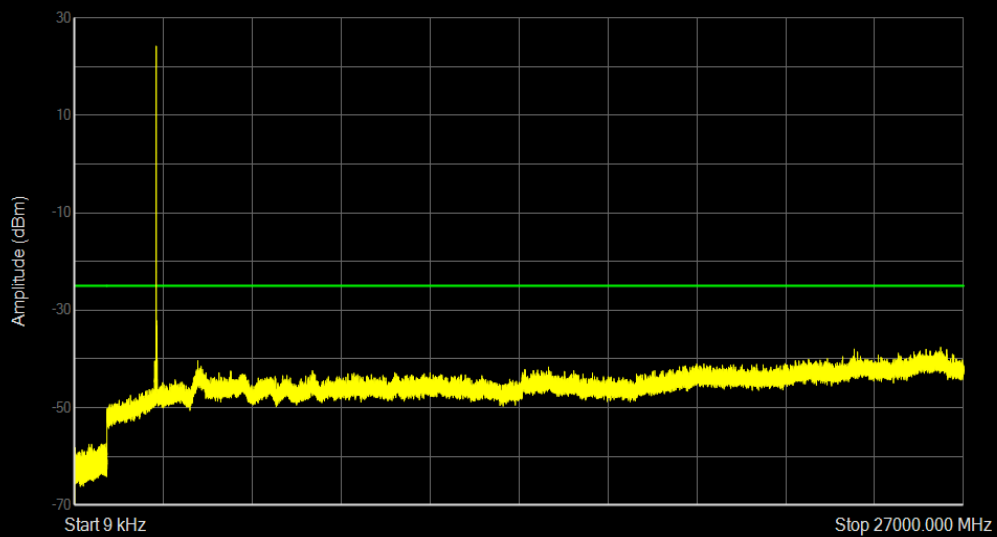
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062844375	-60.82	-25
2	0.15	30	10	2.0111475	-57.13	-25
3	30	1000	100	127.70325	-55.8	-25
4	1000	27000	1000	26173.2	-37.53	-25

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

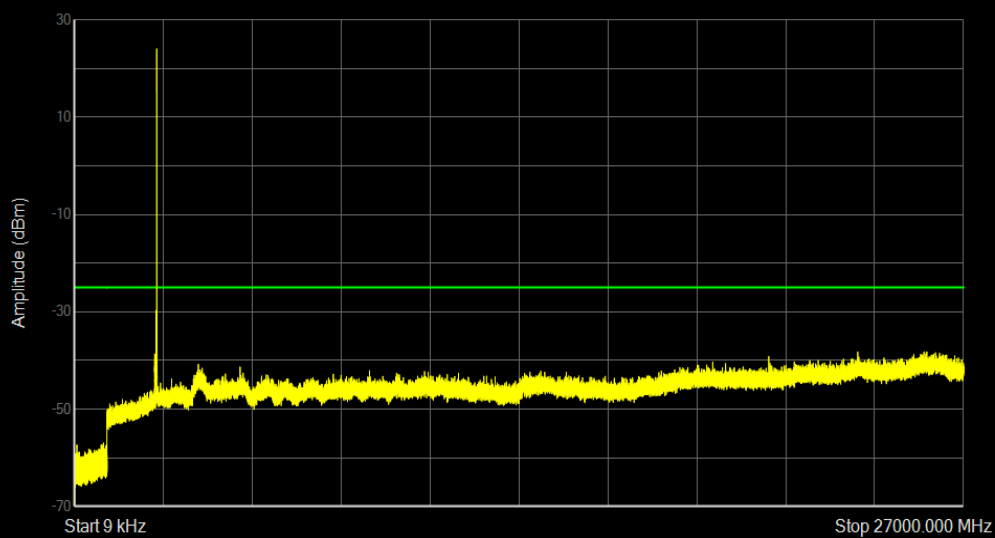


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0629184	-60.96	-25
2	0.15	30	10	2.01786375	-57.59	-25
3	30	1000	100	914.1065	-57.39	-25
4	1000	27000	1000	26446.85	-38.02	-25

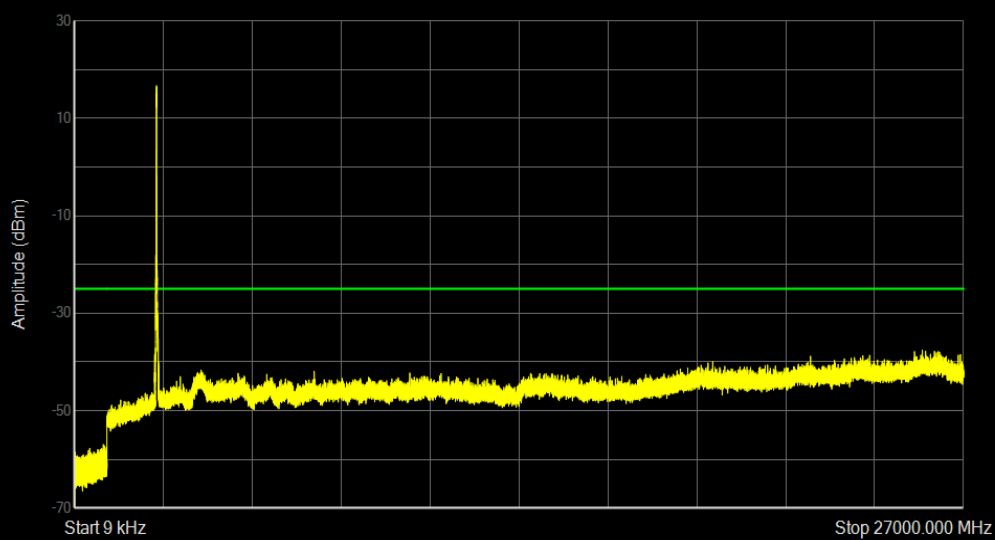
n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062879625	-60.85	-25
2	0.15	30	10	0.16194	-59.14	-25
3	30	1000	100	982.346	-57.4	-25
4	1000	27000	1000	26304.5	-37.61	-25

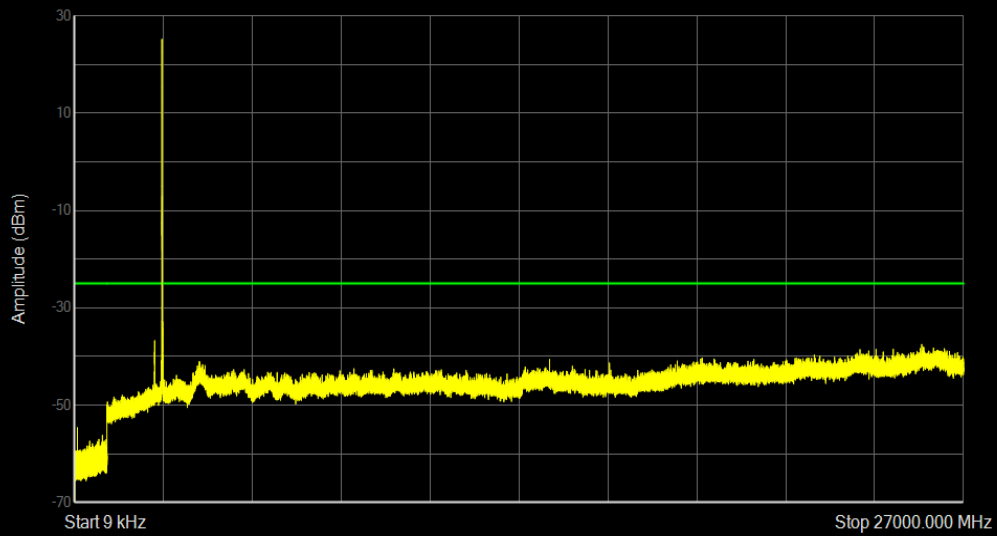
n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=1@50

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06254475	-61.31	-25
2	0.15	30	10	0.1664175	-58.47	-25
3	30	1000	100	898.22275	-56.96	-25
4	1000	27000	1000	25885.9	-38.23	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=51@0

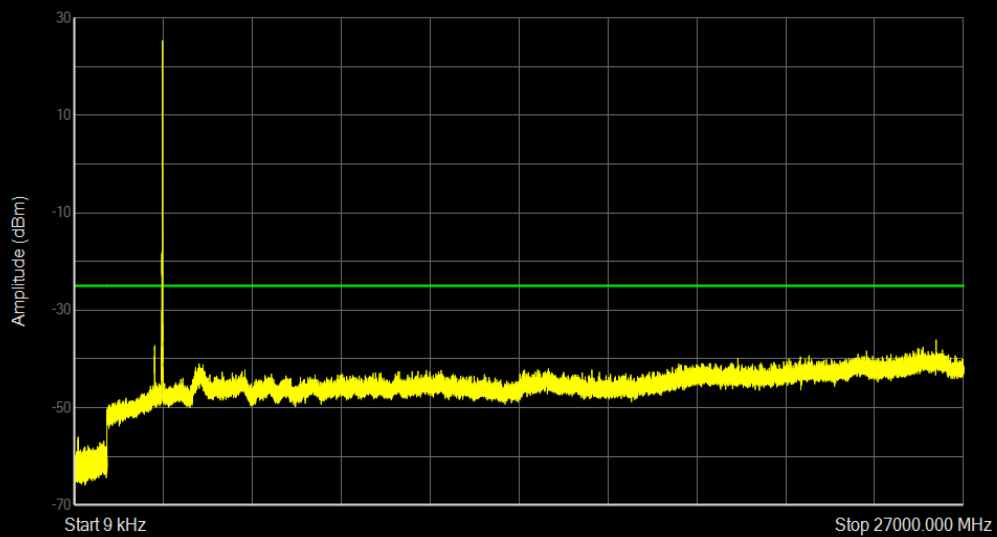
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0626787	-60.51	-25
2	0.15	30	10	0.15	-57.34	-25
3	30	1000	100	893.90625	-56.96	-25
4	1000	27000	1000	25748.1	-37.6	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=535998 RB=1@0



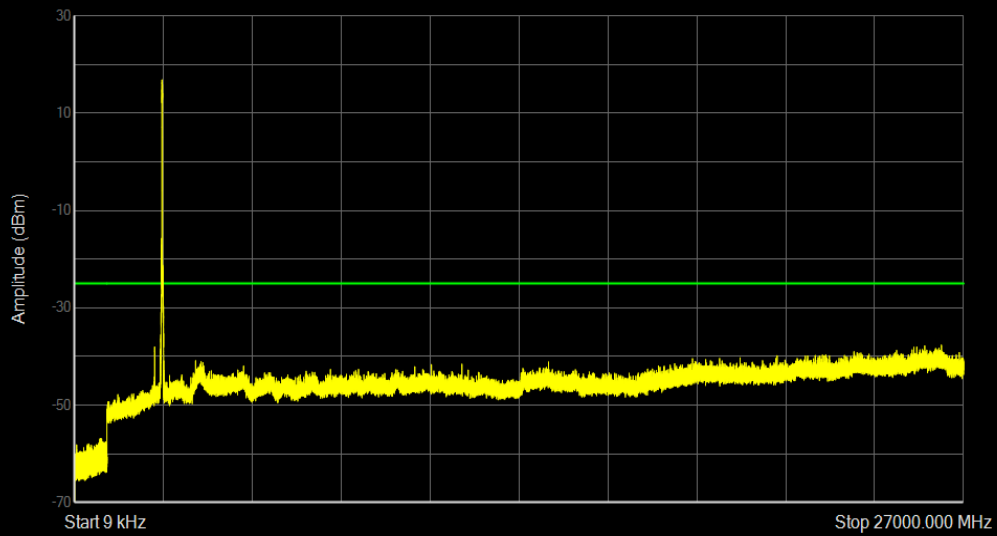
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062879625	-61.29	-25
2	0.15	30	10	0.19701375	-58.18	-25
3	30	1000	100	109.70975	-54.66	-25
4	1000	27000	1000	25729.9	-37.51	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=535998 RB=1@50



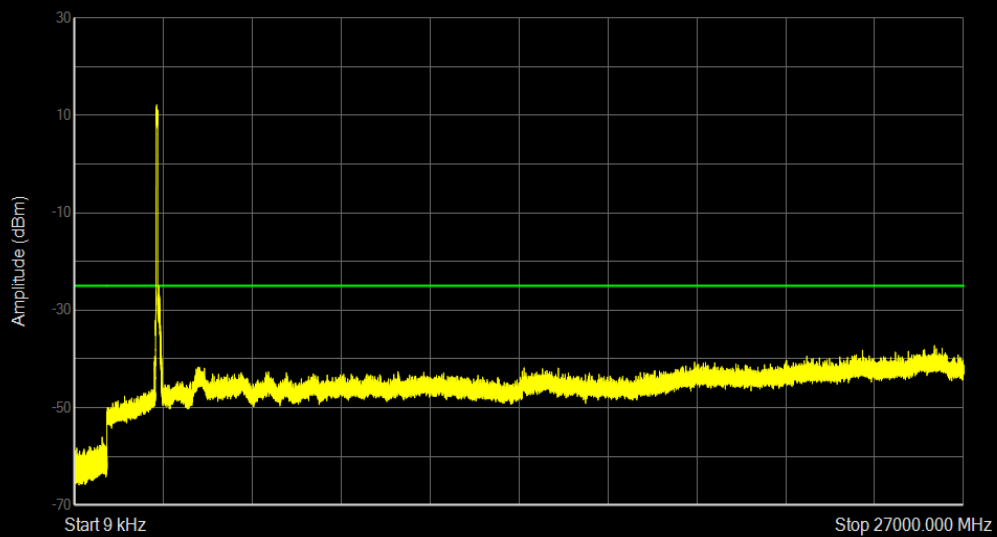
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062682225	-61.04	-25
2	0.15	30	10	0.15671625	-57.79	-25
3	30	1000	100	127.679	-56.06	-25
4	1000	27000	1000	26168	-36.09	-25

n41 SCS=30kHz CP_QPSK BW=20MHz Channel=535998 RB=51@0



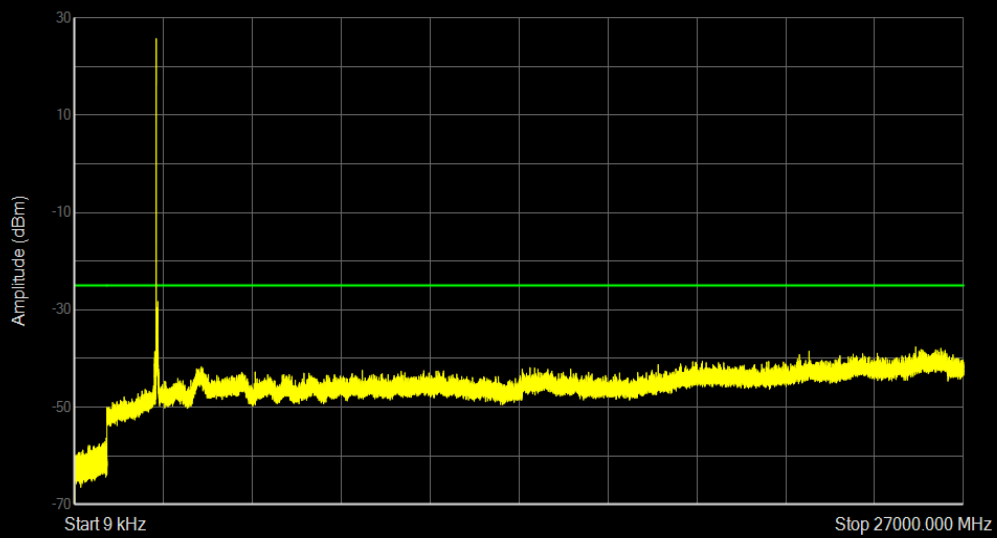
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06291135	-60.77	-25
2	0.15	30	10	0.15	-57.39	-25
3	30	1000	100	800.73775	-56.88	-25
4	1000	27000	1000	26327.9	-37.66	-25

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



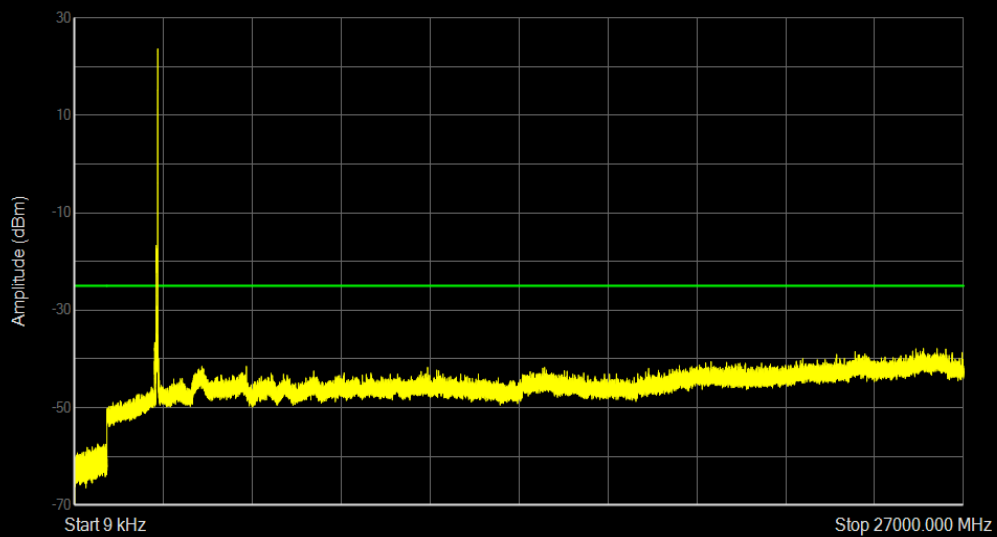
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062569425	-61.26	-25
2	0.15	30	10	0.15074625	-57.2	-25
3	30	1000	100	856.6825	-56.05	-25
4	1000	27000	1000	26114.05	-37.26	-25

n41 SCS=30kHz CP_QPSK BW=50MHz Channel=504204 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0628056	-59.66	-25
2	0.15	30	10	0.15	-58.41	-25
3	30	1000	100	981.279	-56.38	-25
4	1000	27000	1000	25547.9	-37.61	-25

n41 SCS=30kHz CP_QPSK BW=50MHz Channel=504204 RB=1@132



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0624954	-61.07	-25
2	0.15	30	10	0.15	-57.54	-25
3	30	1000	100	723.71975	-57.46	-25
4	1000	27000	1000	25781.9	-37.85	-25