



n7 SCS=15kHz DFT_QAM16 BW=5MHz Channel=507000 RB=25@0



n7 SCS=15kHz DFT_QAM256 BW=10MHz Channel=507000 RB=50@0



n7 SCS=15kHz DFT_QAM256 BW=15MHz Channel=507000 RB=75@0



n7 SCS=15kHz DFT_QAM256 BW=20MHz Channel=507000 RB=100@0



n7 SCS=15kHz DFT_QAM256 BW=5MHz Channel=507000 RB=25@0



n7 SCS=15kHz DFT_QAM64 BW=10MHz Channel=507000 RB=50@0



n7 SCS=15kHz DFT_QAM64 BW=15MHz Channel=507000 RB=75@0



n7 SCS=15kHz DFT_QAM64 BW=20MHz Channel=507000 RB=100@0



n7 SCS=15kHz DFT_QAM64 BW=5MHz Channel=507000 RB=25@0



n7 SCS=15kHz DFT_QPSK BW=10MHz Channel=507000 RB=50@0



n7 SCS=15kHz DFT_QPSK BW=15MHz Channel=507000 RB=75@0



n7 SCS=15kHz DFT_QPSK BW=20MHz Channel=507000 RB=100@0



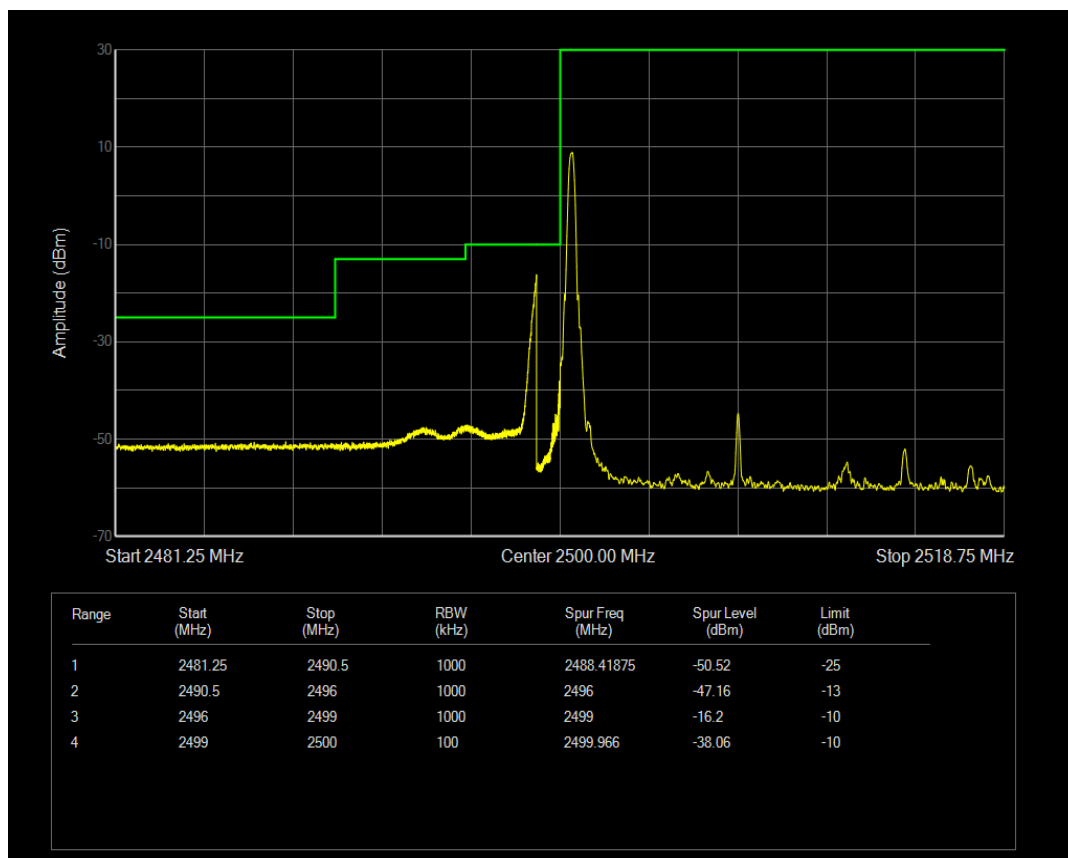
n7 SCS=15kHz DFT_QPSK BW=5MHz Channel=507000 RB=25@0



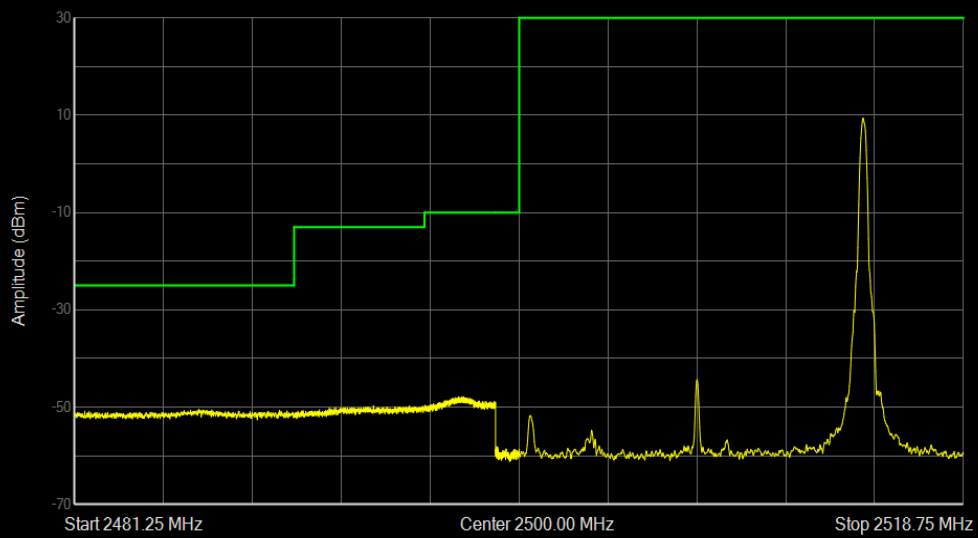
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n7	15	5	500500	25@0	CP_QPSK	2498.99	-20.62	-10	PASS
n7	15	5	500500	1@0	CP_QPSK	2493.88	-50.60	-25	PASS
n7	15	5	500500	1@24	CP_QPSK	2490.98	-50.88	-25	PASS
n7	15	5	513500	25@0	CP_QPSK	2571.04	-23.59	-10	PASS
n7	15	5	513500	1@0	CP_QPSK	2565.32	10.15	30	PASS
n7	15	5	513500	1@24	CP_QPSK	2571.00	-11.09	-10	PASS
n7	15	15	501500	79@0	CP_QPSK	2490.33	-39.24	-25	PASS
n7	15	15	501500	1@0	CP_QPSK	2499.00	-16.20	-10	PASS
n7	15	15	501500	1@78	CP_QPSK	2514.51	9.40	30	PASS
n7	15	15	512500	79@0	CP_QPSK	2575.23	-32.59	-13	PASS
n7	15	15	512500	1@0	CP_QPSK	2555.43	8.99	30	PASS
n7	15	15	512500	1@78	CP_QPSK	2571.02	-17.82	-10	PASS
n7	15	20	502000	106@0	CP_QPSK	2490.50	-36.60	-25	PASS
n7	15	20	502000	1@0	CP_QPSK	2499.00	-19.31	-10	PASS
n7	15	20	502000	1@105	CP_QPSK	2519.45	9.61	30	PASS
n7	15	20	512000	106@0	CP_QPSK	2570.00	-27.91	-10	PASS
n7	15	20	512000	1@0	CP_QPSK	2550.53	9.03	30	PASS
n7	15	20	512000	1@105	CP_QPSK	2571.00	-20.17	-10	PASS

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=1@0



n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=1@78



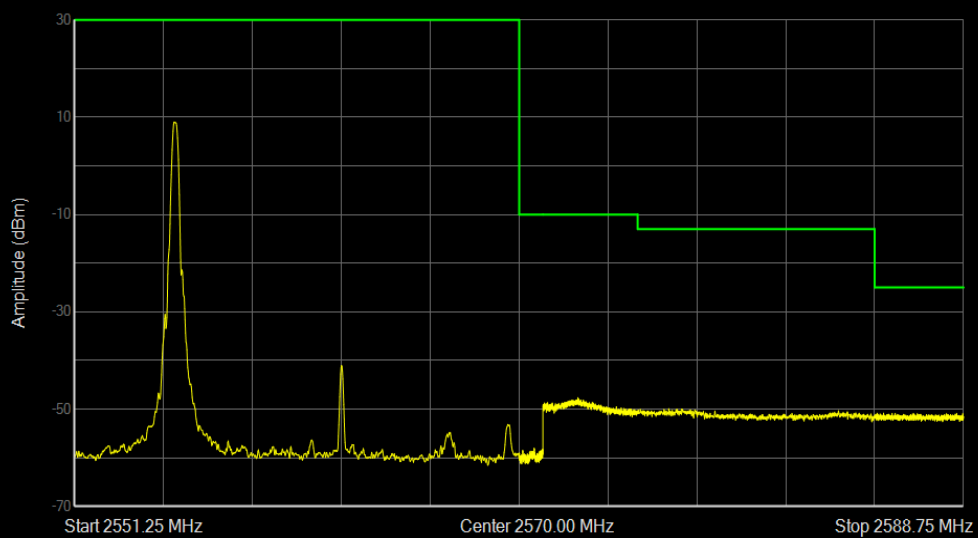
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2490.5	1000	2486.4855	-50.46	-25
2	2490.5	2496	1000	2493.8495	-49.69	-13
3	2496	2499	1000	2497.572	-47.85	-10
4	2499	2500	100	2499.047	-58.13	-10

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=79@0



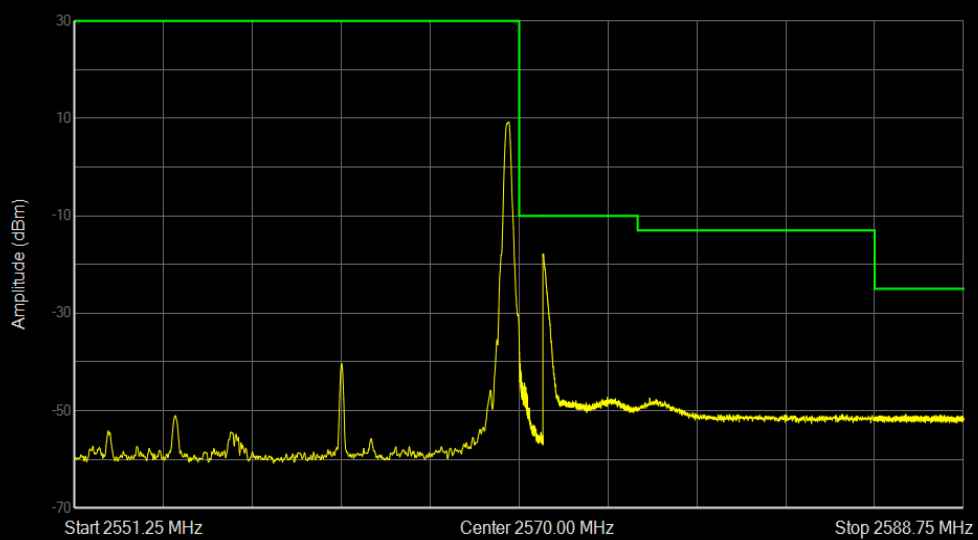
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2490.5	1000	2490.3335	-39.24	-25
2	2490.5	2496	1000	2495.967	-32.86	-13
3	2496	2499	1000	2498.985	-29.9	-10
4	2499	2500	300	2500	-33.36	-10

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=1@0



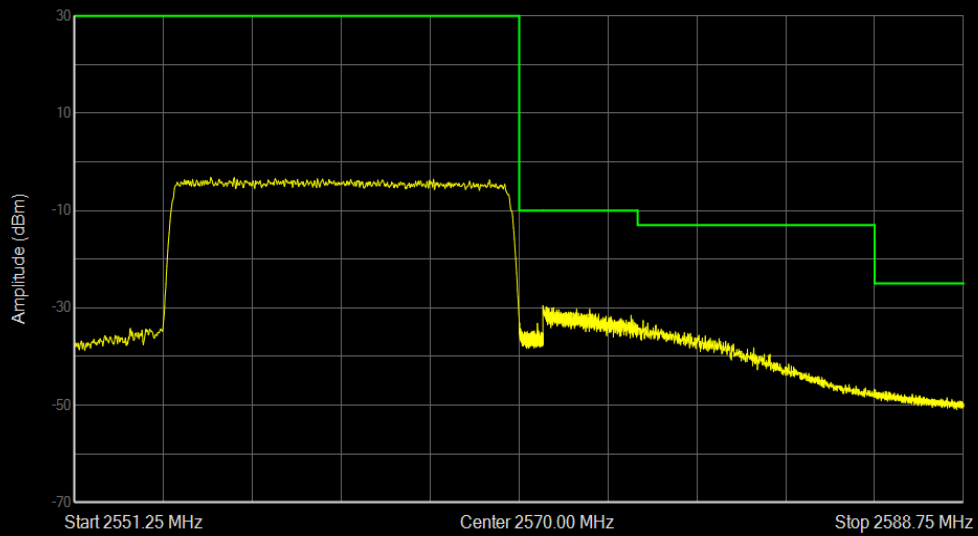
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.632	-58.07	-10
3	2571	2575	1000	2572.476	-47.63	-10
4	2575	2585	1000	2576.31	-49.91	-13
5	2585	2588.75	1000	2585.37125	-50.82	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=1@78



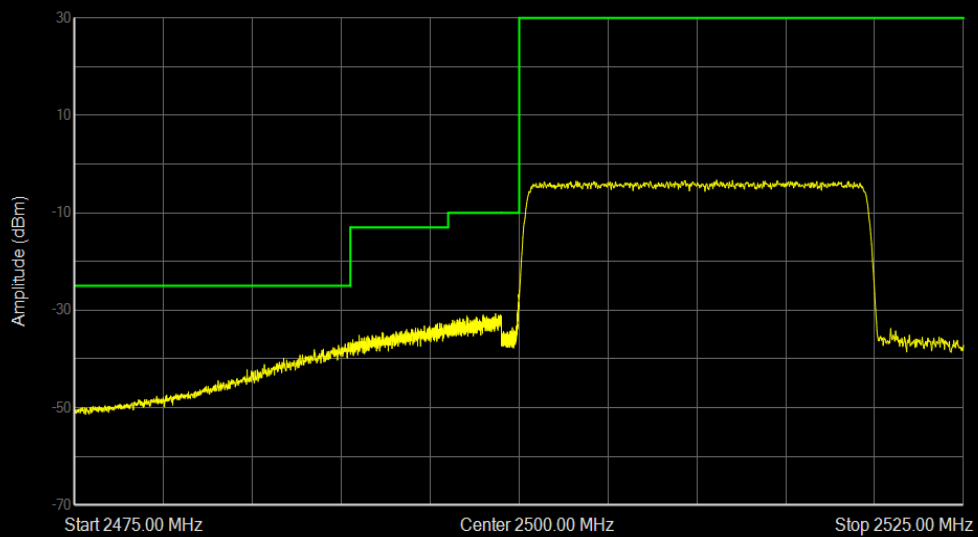
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.002	-36.2	-10
3	2571	2575	1000	2571.024	-17.82	-10
4	2575	2585	1000	2575.51	-47.39	-13
5	2585	2588.75	1000	2586.31625	-50.77	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=79@0



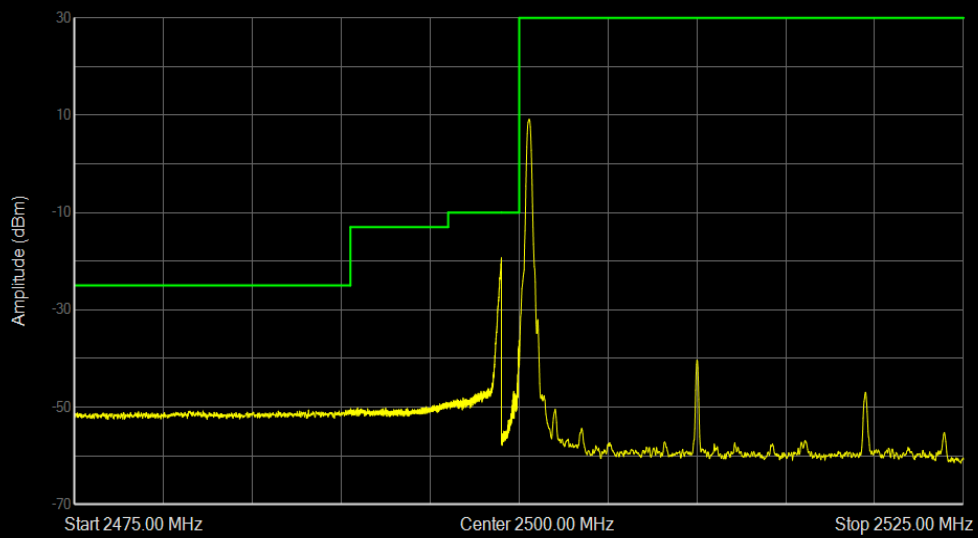
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	300	2570.001	-32.62	-10
3	2571	2575	1000	2571.004	-29.64	-10
4	2575	2585	1000	2575.23	-32.59	-13
5	2585	2588.75	1000	2585.02625	-46.83	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=106@0



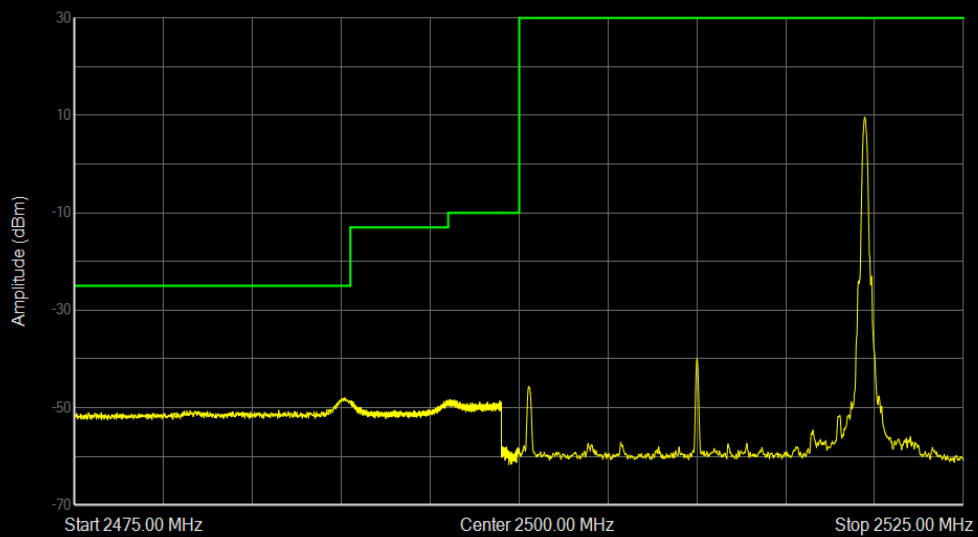
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2490.5	-36.6	-25
2	2490.5	2496	1000	2495.5215	-32.67	-13
3	2496	2499	1000	2498.667	-30.72	-10
4	2499	2500	430	2499.998	-26	-10

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=1@0



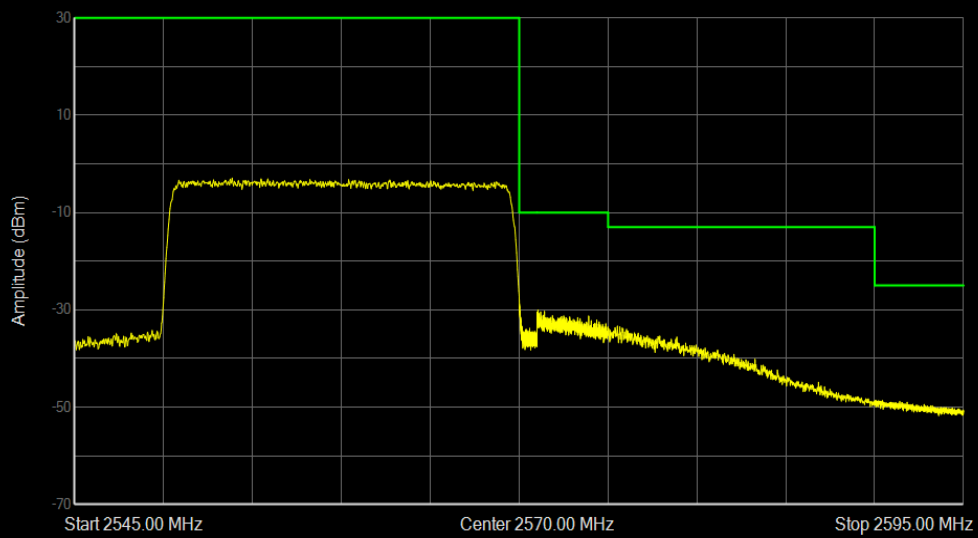
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2490.4535	-50.58	-25
2	2490.5	2496	1000	2495.8955	-48.98	-13
3	2496	2499	1000	2499	-19.31	-10
4	2499	2500	100	2499.995	-36.31	-10

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=1@105



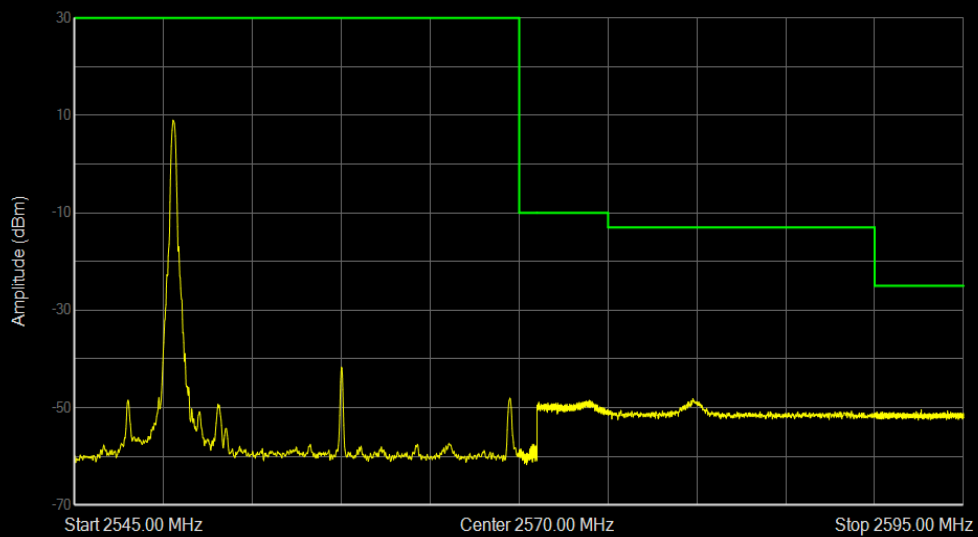
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2490.159	-48.03	-25
2	2490.5	2496	1000	2495.9395	-48.5	-13
3	2496	2499	1000	2496.108	-48.38	-10
4	2499	2500	100	2499.078	-58	-10

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=106@0



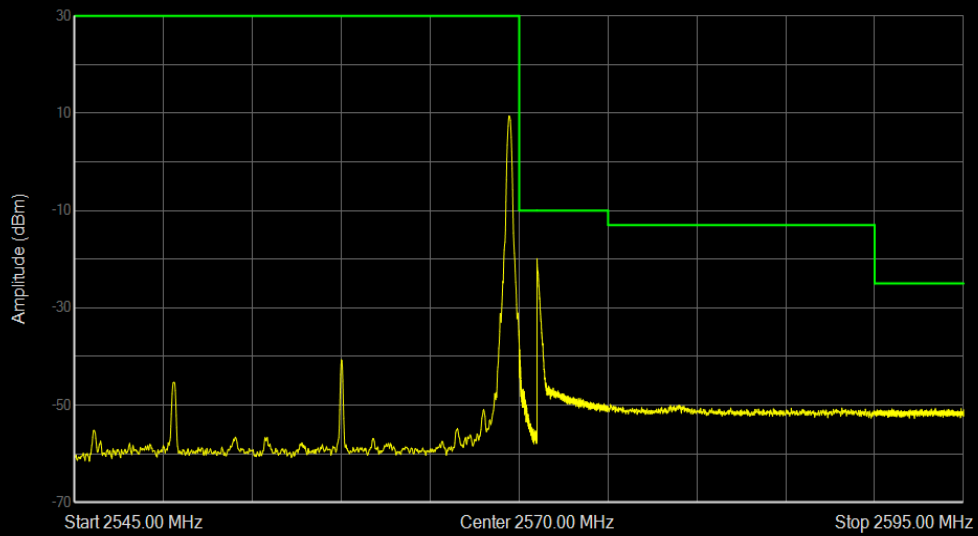
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	430	2570.002	-27.91	-10
3	2571	2575	1000	2571.056	-30.05	-10
4	2575	2590	1000	2575.525	-33.34	-13
5	2590	2595	1000	2590.04	-48.63	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=1@0



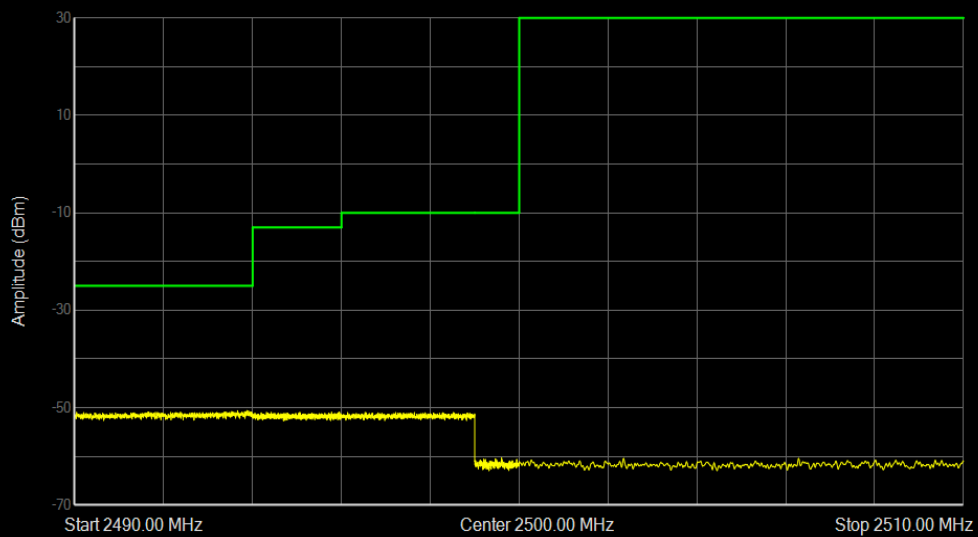
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.751	-57.58	-10
3	2571	2575	1000	2573.956	-48.49	-10
4	2575	2590	1000	2579.77	-48.13	-13
5	2590	2595	1000	2592.62	-50.42	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=1@105



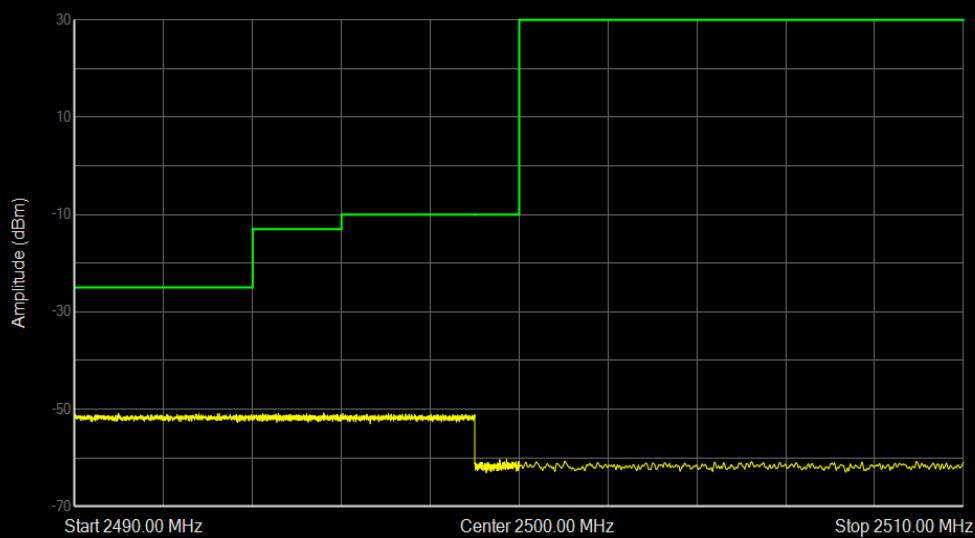
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.001	-35.36	-10
3	2571	2575	1000	2571.004	-20.17	-10
4	2575	2590	1000	2575.135	-49.87	-13
5	2590	2595	1000	2593.415	-50.71	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=1@0



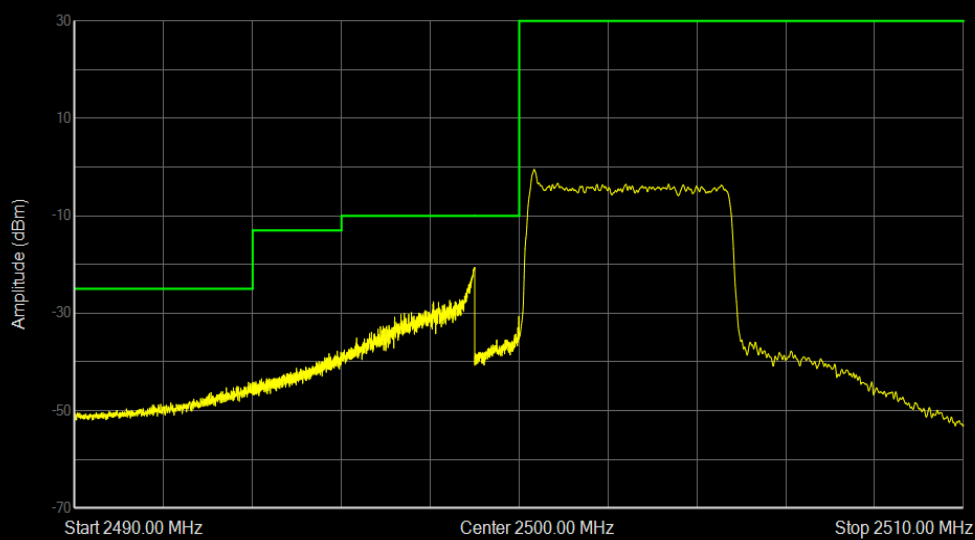
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2493.88	-50.6	-25
2	2494	2496	1000	2495.95	-50.87	-13
3	2496	2499	1000	2496.531	-50.99	-10
4	2499	2500	100	2499.603	-60.33	-10

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=1@24



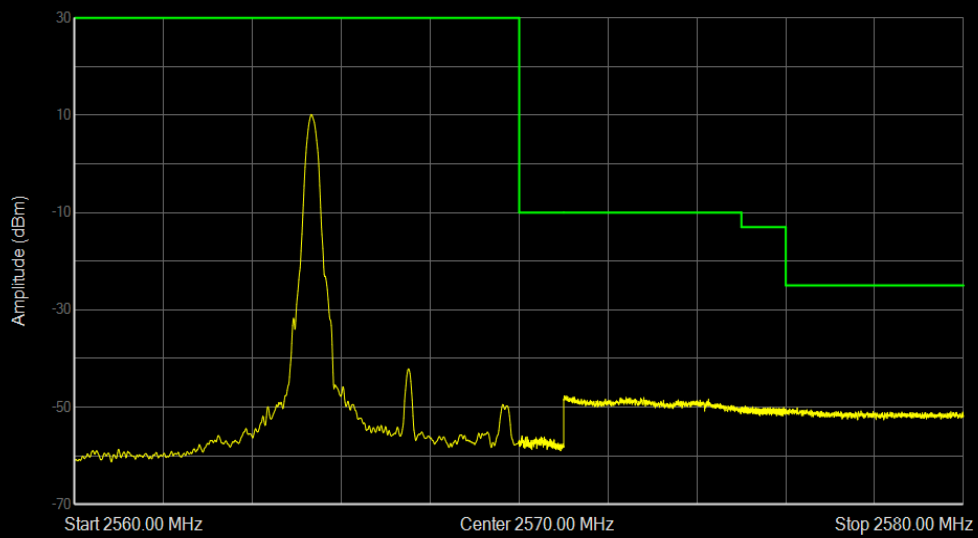
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2490.984	-50.88	-25
2	2494	2496	1000	2495.6	-50.8	-13
3	2496	2499	1000	2496.03	-50.92	-10
4	2499	2500	100	2499.714	-60.35	-10

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=25@0



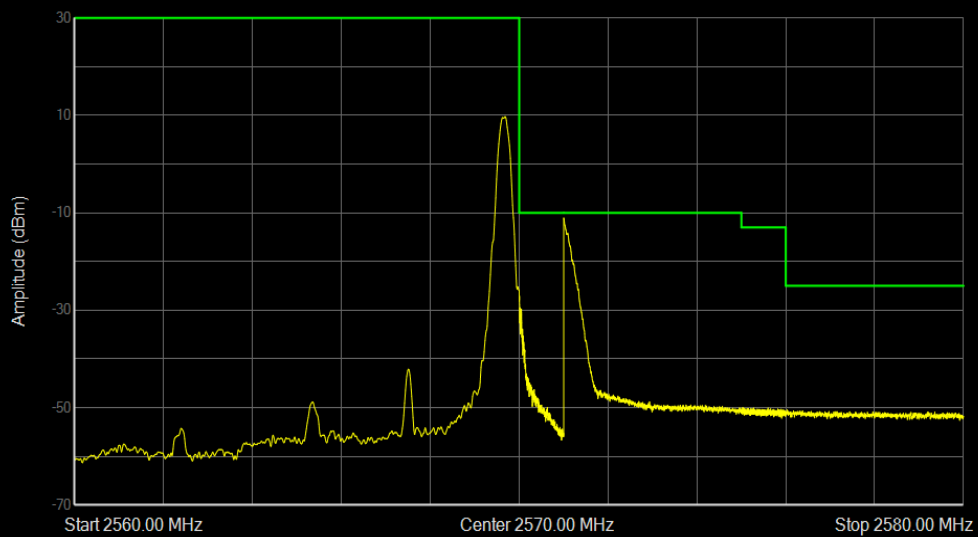
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2493.908	-44.17	-25
2	2494	2496	1000	2495.904	-37.79	-13
3	2496	2499	1000	2498.991	-20.62	-10
4	2499	2500	100	2499.991	-30.68	-10

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=1@0



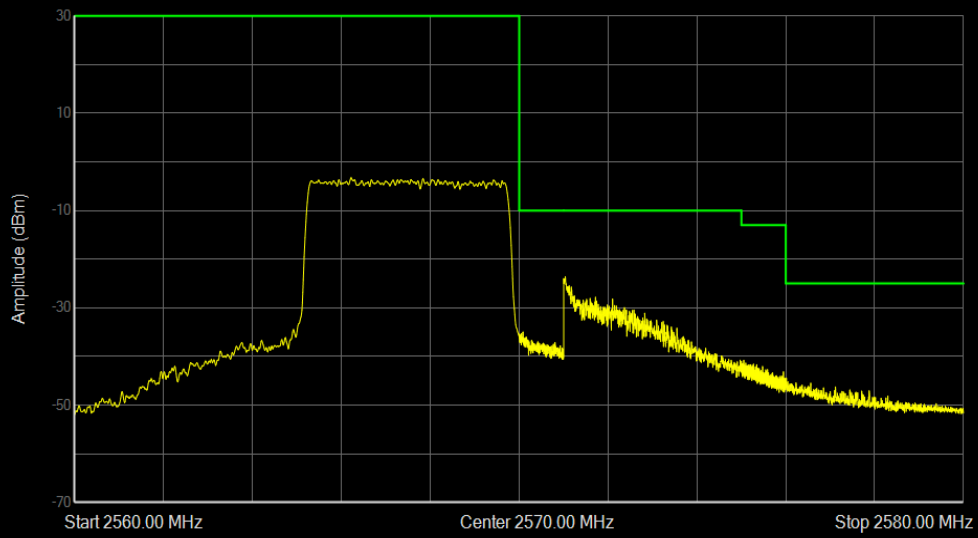
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.064	-55.92	-10
3	2571	2575	1000	2571.012	-47.69	-10
4	2575	2576	1000	2575.086	-49.77	-13
5	2576	2580	1000	2576.256	-50.14	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=1@24



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.004	-27.06	-10
3	2571	2575	1000	2571.004	-11.09	-10
4	2575	2576	1000	2575.027	-50.03	-13
5	2576	2580	1000	2576.028	-50.46	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=25@0

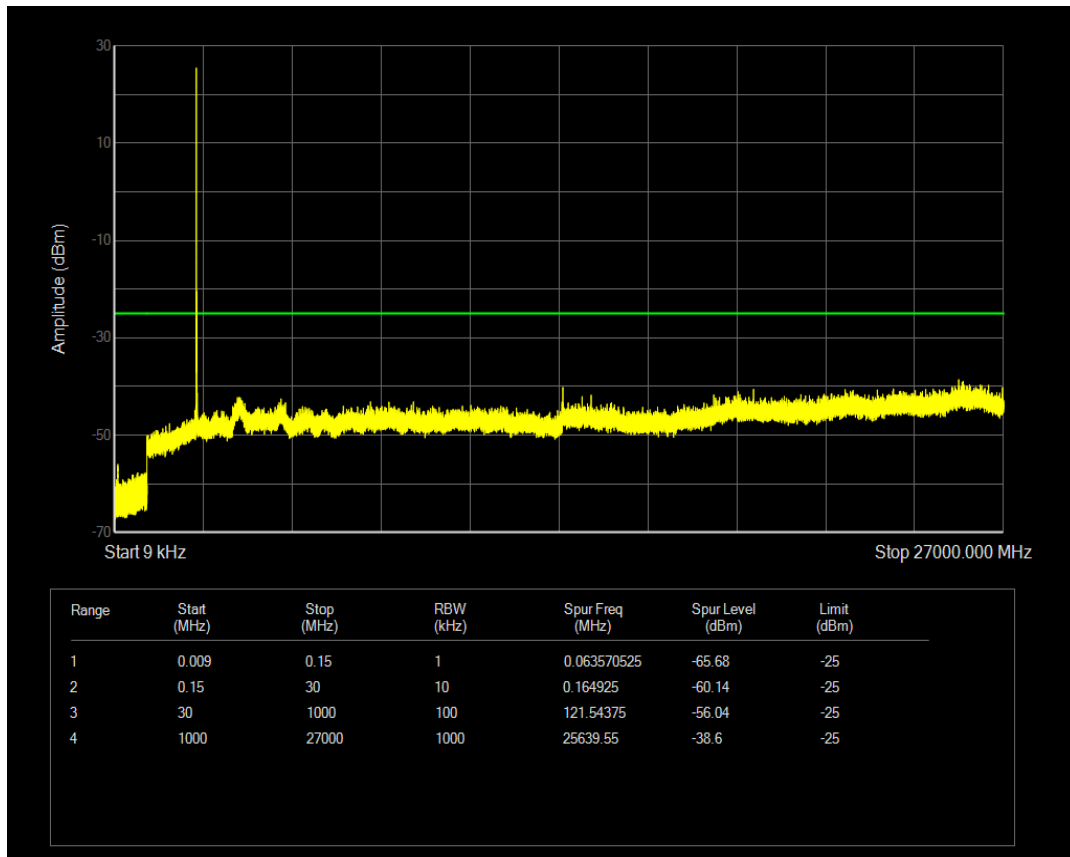


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.084	-34.96	-10
3	2571	2575	1000	2571.036	-23.59	-10
4	2575	2576	1000	2575.054	-40.78	-13
5	2576	2580	1000	2576.012	-44.42	-25

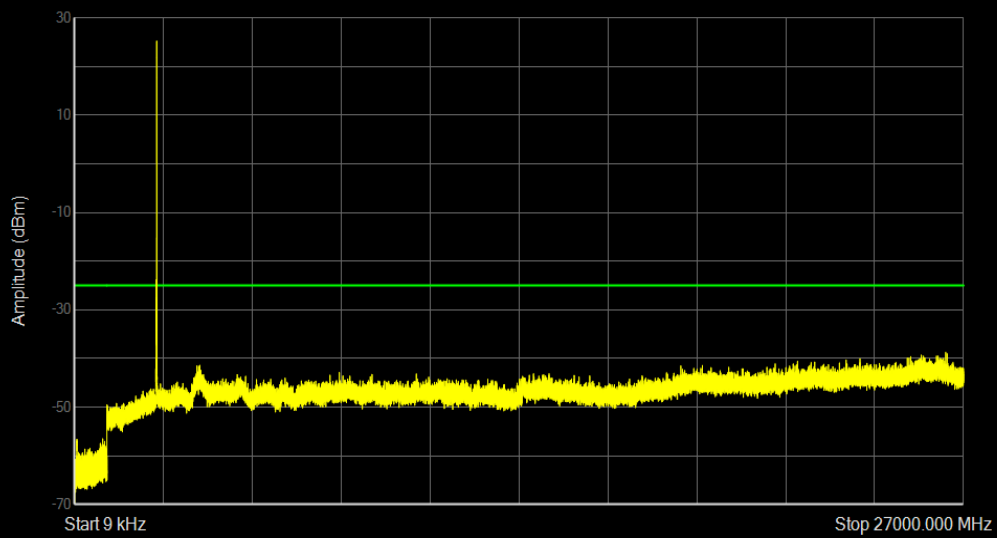
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n7	15	5	500500	25@0	CP_QPSK	26025.00	-38.76	-25	PASS
n7	15	5	500500	1@0	CP_QPSK	25618.10	-38.96	-25	PASS
n7	15	5	500500	1@24	CP_QPSK	25570.00	-38.85	-25	PASS
n7	15	5	513500	25@0	CP_QPSK	25540.10	-38.75	-25	PASS
n7	15	5	513500	1@0	CP_QPSK	25824.15	-39.06	-25	PASS
n7	15	5	513500	1@24	CP_QPSK	25805.30	-39.08	-25	PASS
n7	15	15	501500	79@0	CP_QPSK	26294.75	-38.68	-25	PASS
n7	15	15	501500	1@0	CP_QPSK	25639.55	-38.60	-25	PASS
n7	15	15	501500	1@78	CP_QPSK	26459.20	-38.75	-25	PASS
n7	15	15	512500	79@0	CP_QPSK	25837.15	-38.74	-25	PASS
n7	15	15	512500	1@0	CP_QPSK	25785.15	-39.17	-25	PASS
n7	15	15	512500	1@78	CP_QPSK	25572.60	-38.64	-25	PASS
n7	15	20	502000	106@0	CP_QPSK	25790.35	-38.56	-25	PASS
n7	15	20	502000	1@0	CP_QPSK	25553.10	-39.04	-25	PASS
n7	15	20	502000	1@105	CP_QPSK	25826.10	-39.18	-25	PASS
n7	15	20	512000	106@0	CP_QPSK	25583.65	-39.28	-25	PASS
n7	15	20	512000	1@0	CP_QPSK	26361.05	-39.20	-25	PASS
n7	15	20	512000	1@105	CP_QPSK	25395.15	-38.62	-25	PASS

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=1@0

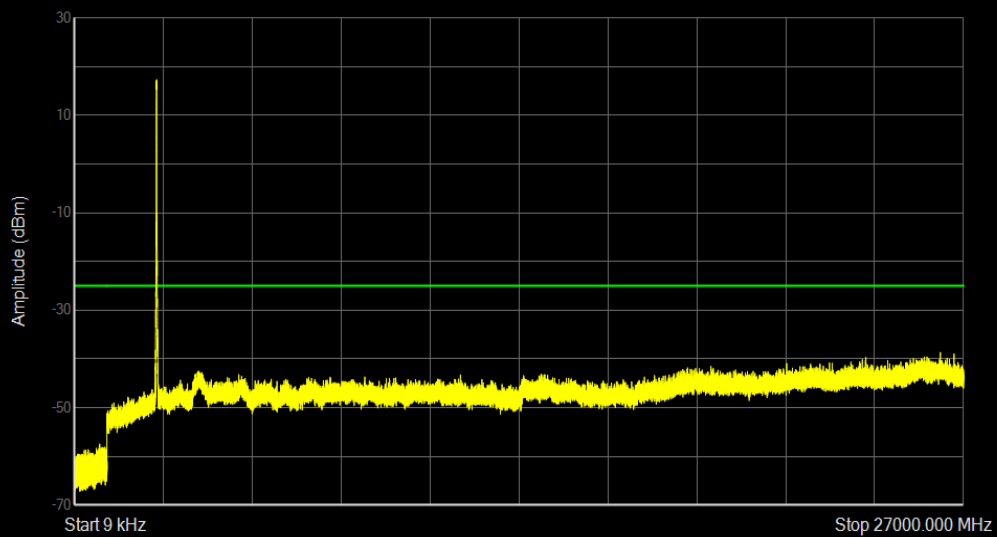


n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=1@78



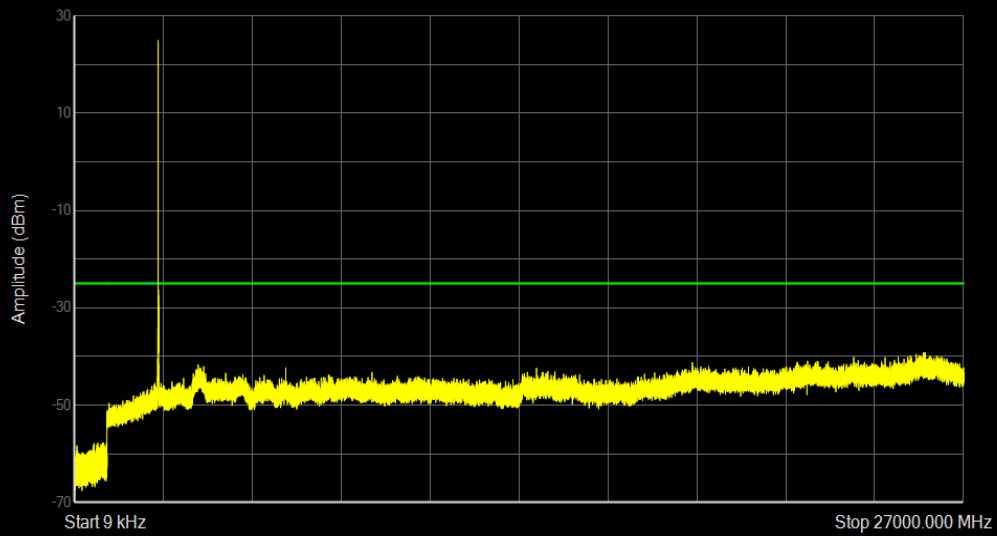
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063760875	-66.24	-25
2	0.15	30	10	0.15074625	-60.33	-25
3	30	1000	100	875.52475	-56.52	-25
4	1000	27000	1000	26459.2	-38.75	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=79@0



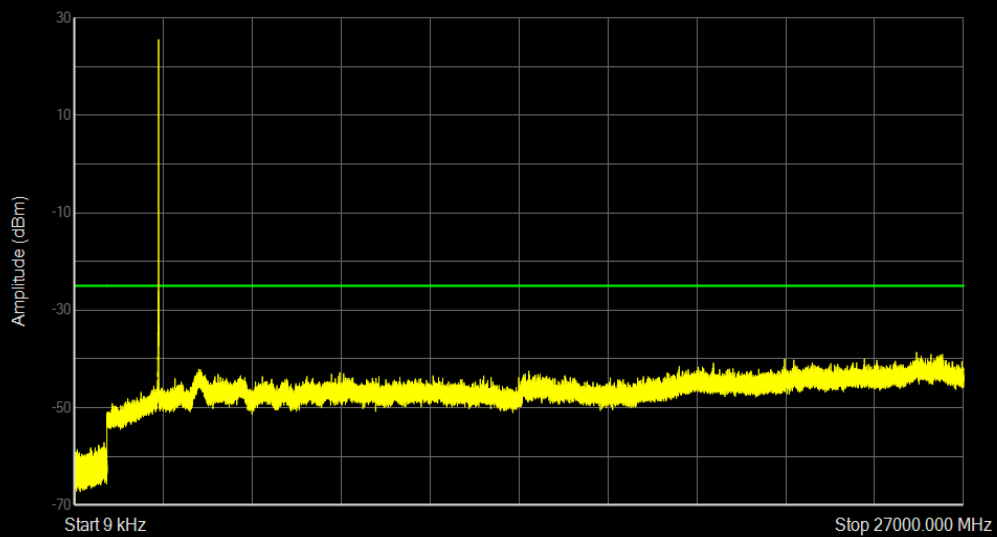
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0633414	-66.11	-25
2	0.15	30	10	0.19402875	-60.52	-25
3	30	1000	100	784.34475	-57.46	-25
4	1000	27000	1000	26294.75	-38.68	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=1@0



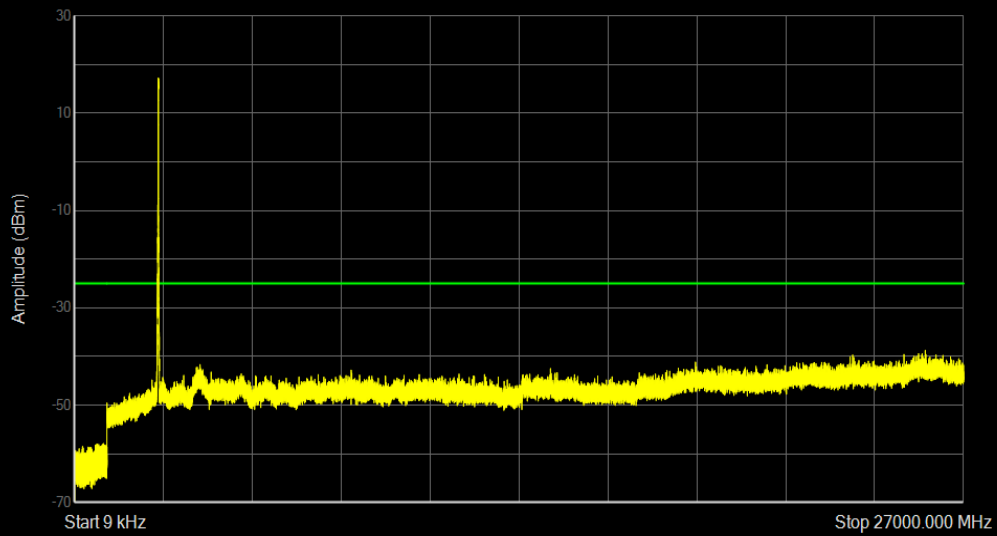
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06333435	-64.21	-25
2	0.15	30	10	0.15970125	-60.31	-25
3	30	1000	100	987.70525	-57.72	-25
4	1000	27000	1000	25785.15	-39.17	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=1@78



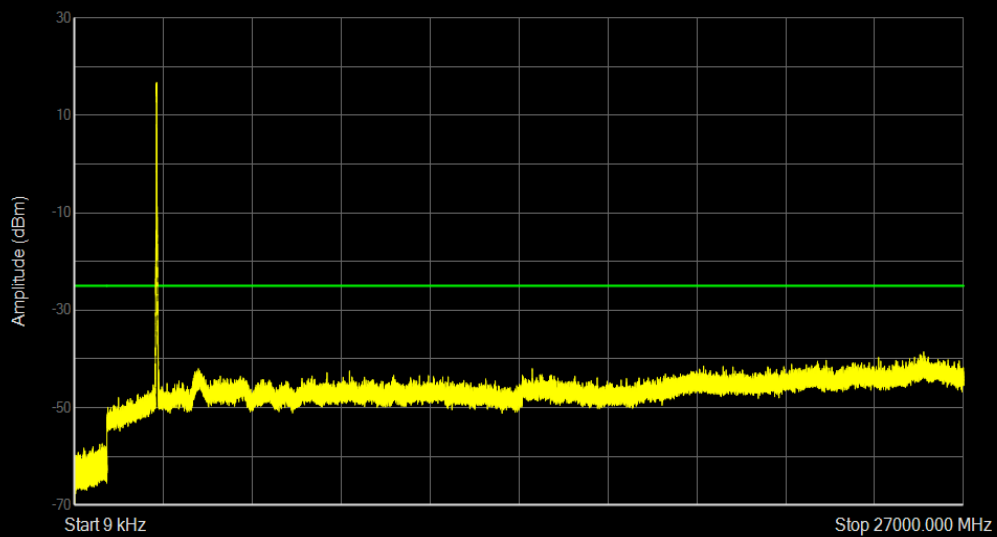
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063708	-64.36	-25
2	0.15	30	10	8.254275	-53.59	-25
3	30	1000	100	916.8225	-57.19	-25
4	1000	27000	1000	25572.6	-38.64	-25

n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=79@0

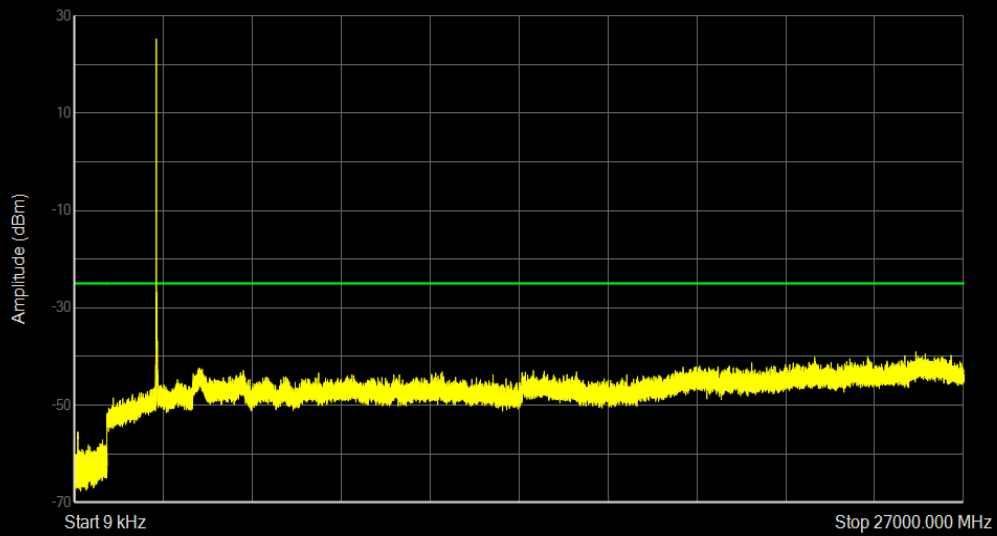


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.064155675	-66.36	-25
2	0.15	30	10	0.17164125	-60.5	-25
3	30	1000	100	898.95025	-57.9	-25
4	1000	27000	1000	25837.15	-38.74	-25

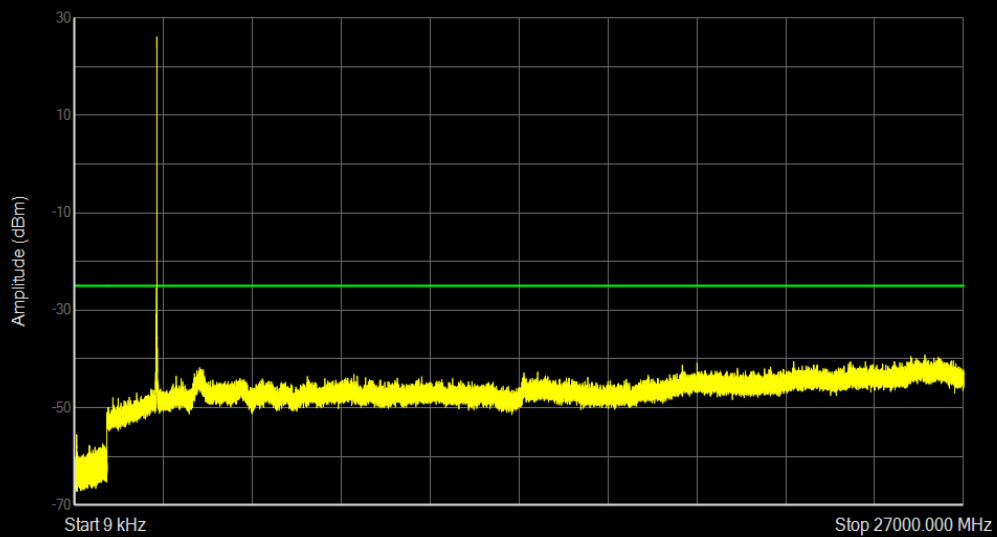
n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=106@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063556425	-66.78	-25
2	0.15	30	10	0.17313375	-59.81	-25
3	30	1000	100	858.01625	-57.44	-25
4	1000	27000	1000	25790.35	-38.56	-25

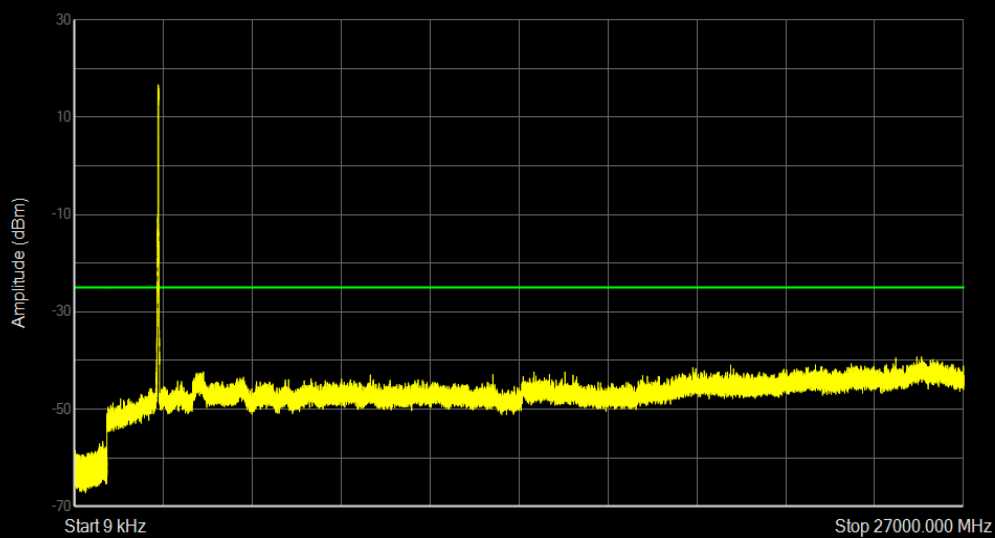
n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063708	-65.3	-25
2	0.15	30	10	0.15074625	-60.09	-25
3	30	1000	100	121.5195	-55.55	-25
4	1000	27000	1000	25553.1	-39.04	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=1@105

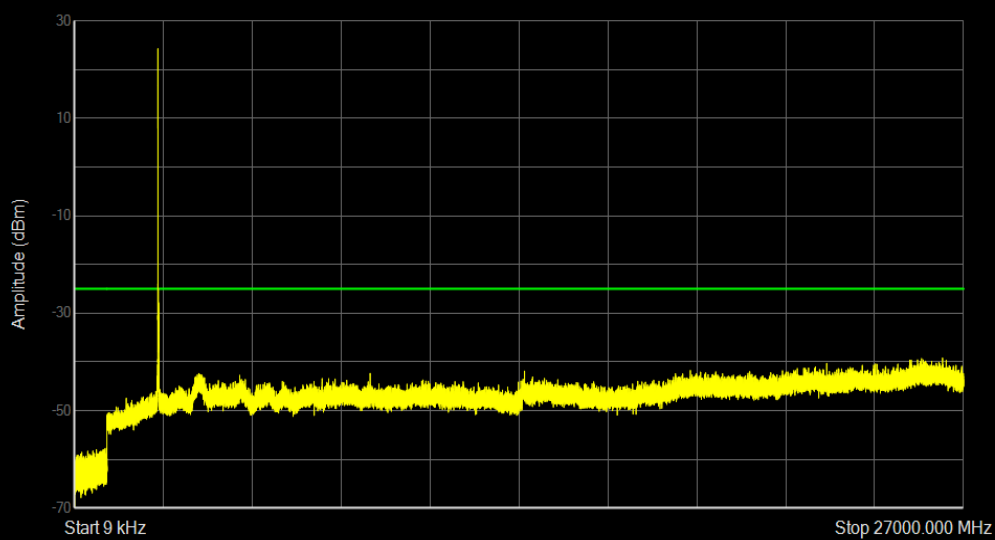
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06377145	-64.77	-25
2	0.15	30	10	0.16417875	-59.42	-25
3	30	1000	100	83.61675	-55.56	-25
4	1000	27000	1000	25826.1	-39.18	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=106@0



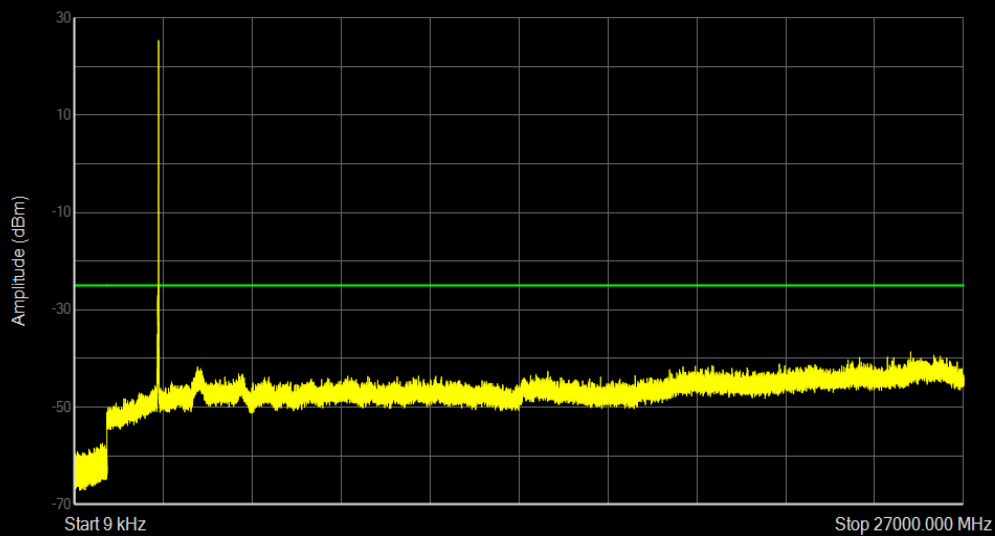
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1272567	-66.25	-25
2	0.15	30	10	0.15373125	-59.16	-25
3	30	1000	100	875.18525	-56.63	-25
4	1000	27000	1000	25583.65	-39.28	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=1@0



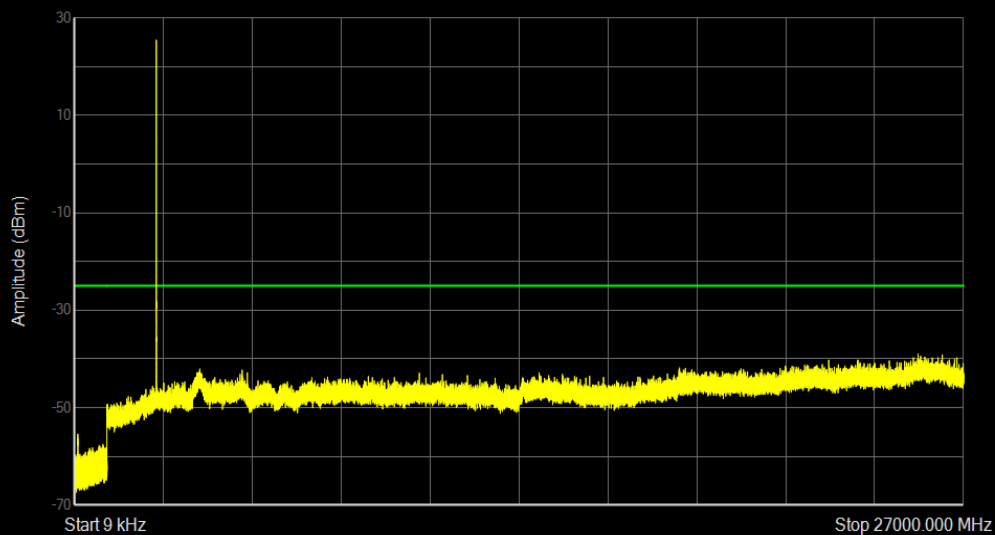
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0637926	-65.65	-25
2	0.15	30	10	0.15	-58.77	-25
3	30	1000	100	989.9605	-57.67	-25
4	1000	27000	1000	26361.05	-39.2	-25

n7 SCS=15kHz CP_QPSK BW=20MHz Channel=512000 RB=1@105

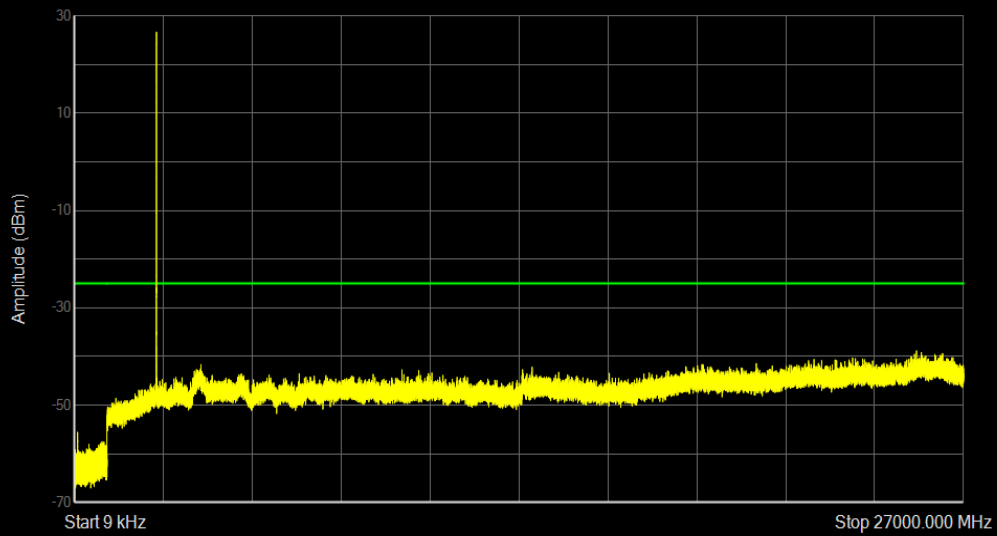


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.091908	-65.49	-25
2	0.15	30	10	8.19084375	-52.06	-25
3	30	1000	100	872.22675	-57.46	-25
4	1000	27000	1000	25395.15	-38.62	-25

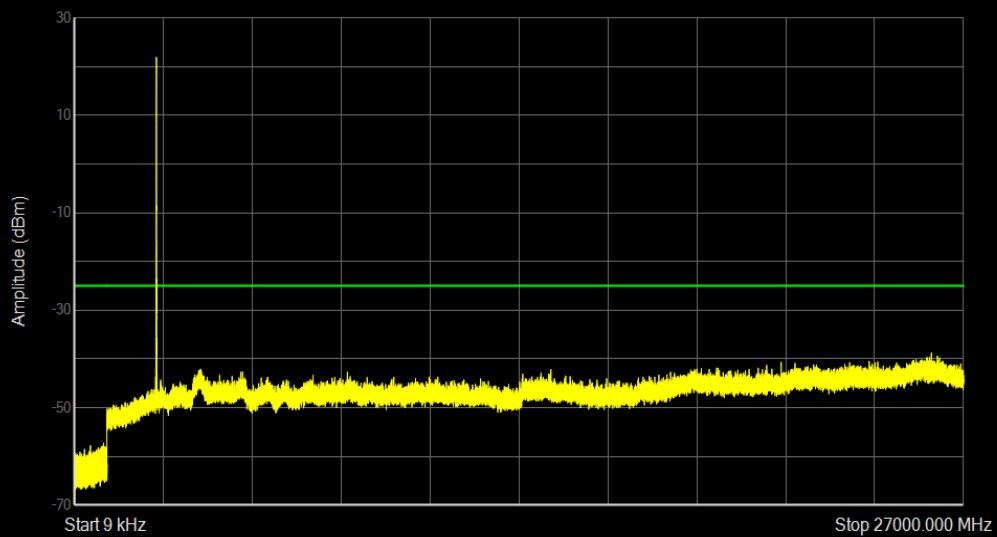
n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=1@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063232125	-65.65	-25
2	0.15	30	10	0.15671625	-60.04	-25
3	30	1000	100	121.73775	-55.46	-25
4	1000	27000	1000	25618.1	-38.96	-25

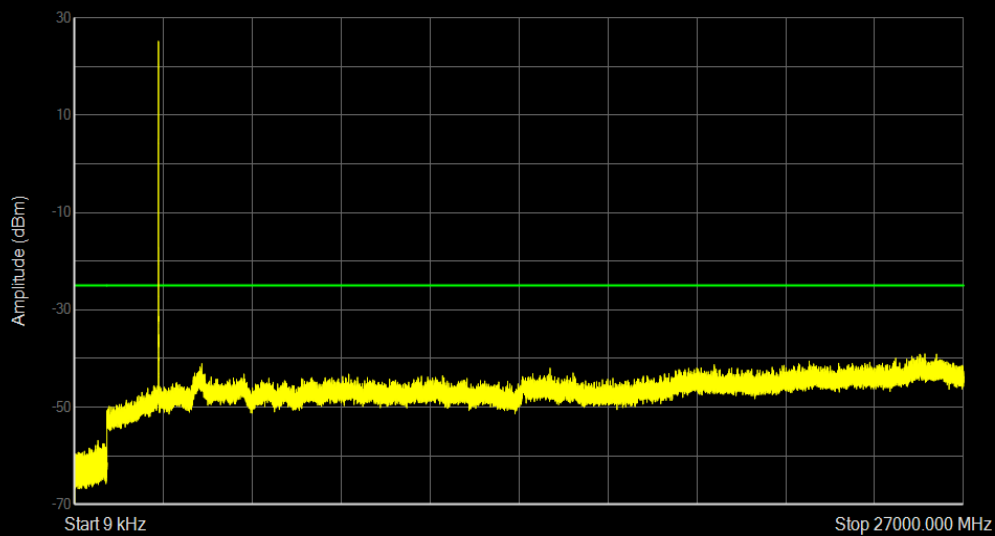
n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=1@24

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063789075	-65.33	-25
2	0.15	30	10	0.15	-59.5	-25
3	30	1000	100	113.20175	-55.58	-25
4	1000	27000	1000	25570	-38.85	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=25@0

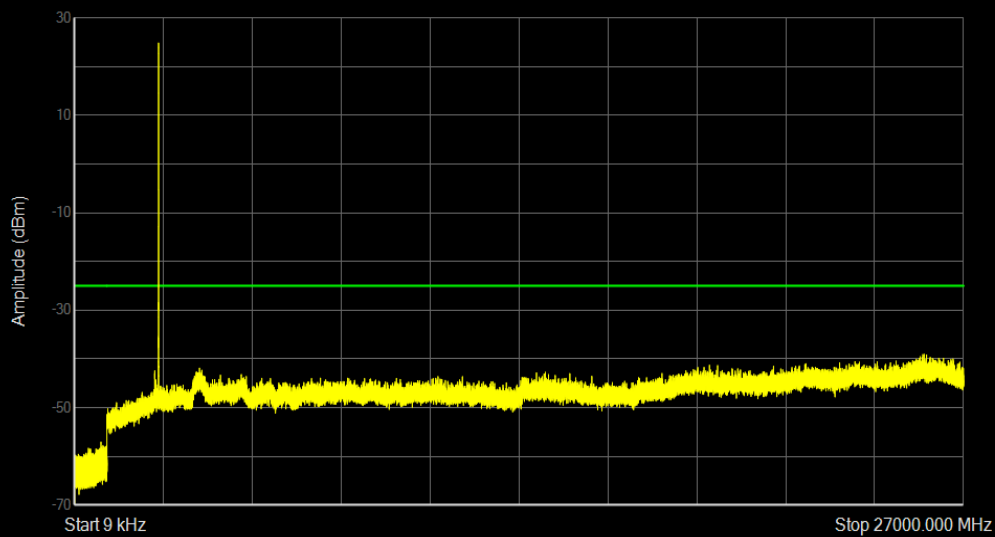
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06370095	-65.61	-25
2	0.15	30	10	0.15074625	-59.11	-25
3	30	1000	100	900.50225	-57.27	-25
4	1000	27000	1000	26025	-38.76	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=1@0



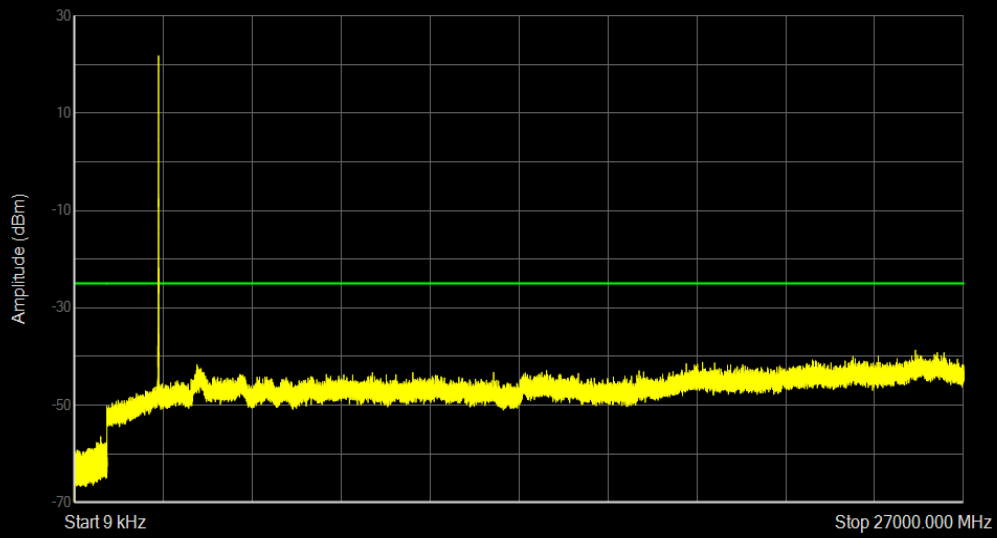
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0635388	-65.37	-25
2	0.15	30	10	4.07229	-54.02	-25
3	30	1000	100	731.43125	-56.9	-25
4	1000	27000	1000	25824.15	-39.06	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=1@24



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063203925	-65.54	-25
2	0.15	30	10	8.42665875	-53.79	-25
3	30	1000	100	821.52	-57.07	-25
4	1000	27000	1000	25805.3	-39.08	-25

n7 SCS=15kHz CP_QPSK BW=5MHz Channel=513500 RB=25@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.063753825	-65.61	-25
2	0.15	30	10	0.15	-60.03	-25
3	30	1000	100	814.3905	-56.49	-25
4	1000	27000	1000	25540.1	-38.75	-25