



n7 SCS=15kHz DFT_QAM16 BW=15MHz Channel=507000 RB=75@0



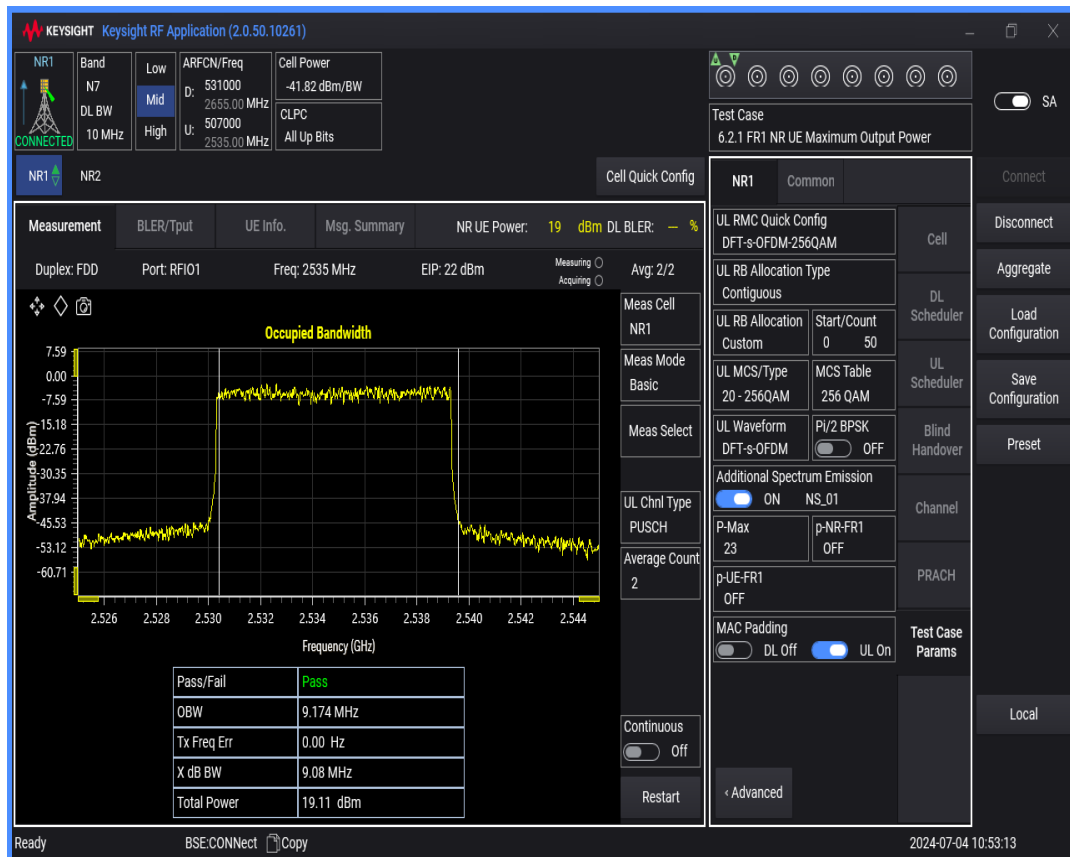
n7 SCS=15kHz DFT_QAM16 BW=20MHz Channel=507000 RB=100@0



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



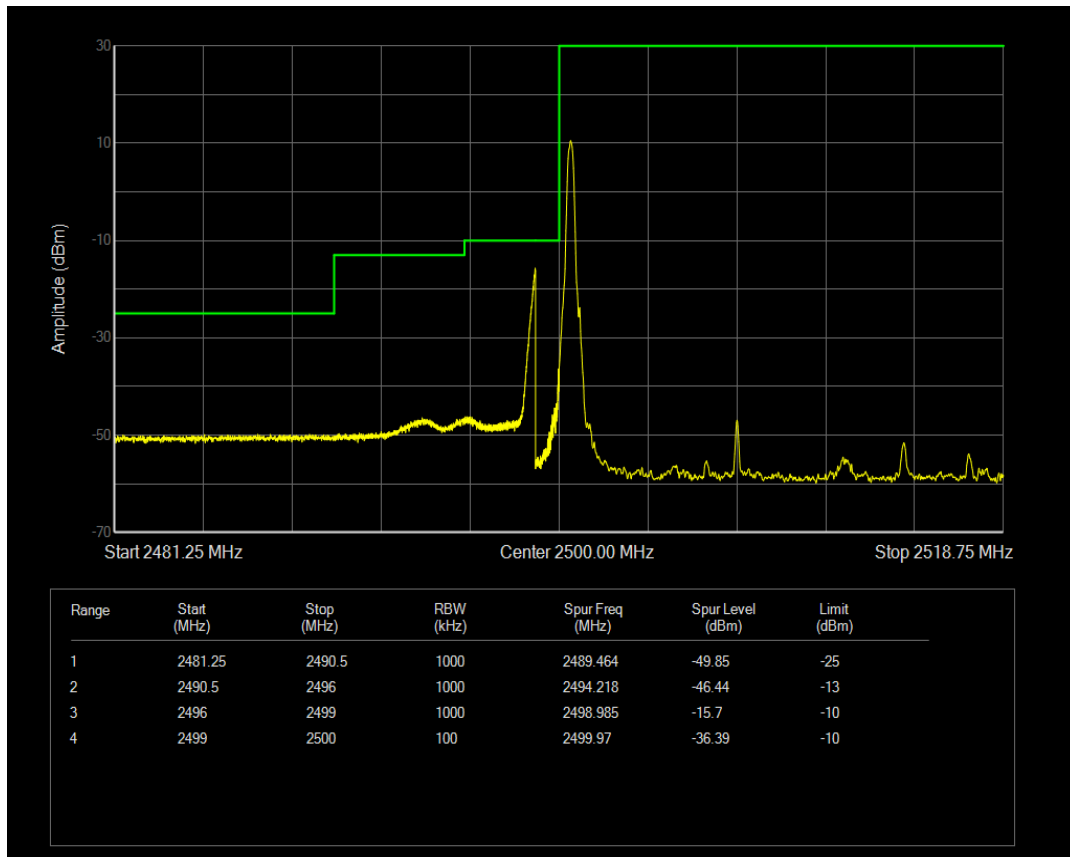
n7 SCS=15kHz DFT_QPSK BW=5MHz Channel=507000 RB=25@0



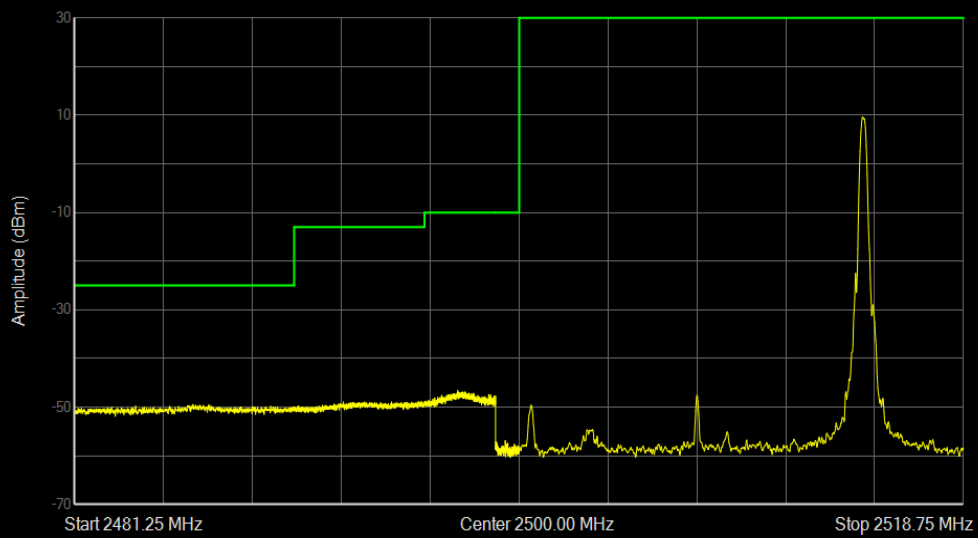
5 Band edge for NR FR1

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	-17.64	-10	PASS
n7	15	5	500500	1@0	CP_QPSK	2498.99	-10.40	-10	PASS
n7	15	5	500500	1@24	CP_QPSK	2498.98	-23.68	-10	PASS
n7	15	5	513500	25@0	CP_QPSK	2571.00	-22.69	-10	PASS
n7	15	5	513500	1@0	CP_QPSK	2565.30	10.29	30	PASS
n7	15	5	513500	1@24	CP_QPSK	2571.00	-10.85	-10	PASS
n7	15	15	501500	79@0	CP_QPSK	2490.49	-37.67	-25	PASS
n7	15	15	501500	1@0	CP_QPSK	2498.99	-15.70	-10	PASS
n7	15	15	501500	1@78	CP_QPSK	2514.49	9.62	30	PASS
n7	15	15	512500	79@0	CP_QPSK	2571.06	-28.93	-10	PASS
n7	15	15	512500	1@0	CP_QPSK	2555.51	9.57	30	PASS
n7	15	15	512500	1@78	CP_QPSK	2571.00	-16.99	-10	PASS
n7	15	20	502000	106@0	CP_QPSK	2490.45	-36.92	-25	PASS
n7	15	20	502000	1@0	CP_QPSK	2499.00	-18.44	-10	PASS
n7	15	20	502000	1@105	CP_QPSK	2519.45	10.20	30	PASS
n7	15	20	512000	106@0	CP_QPSK	2570.00	-26.78	-10	PASS
n7	15	20	512000	1@0	CP_QPSK	2550.55	9.75	30	PASS
n7	15	20	512000	1@105	CP_QPSK	2571.00	-19.10	-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



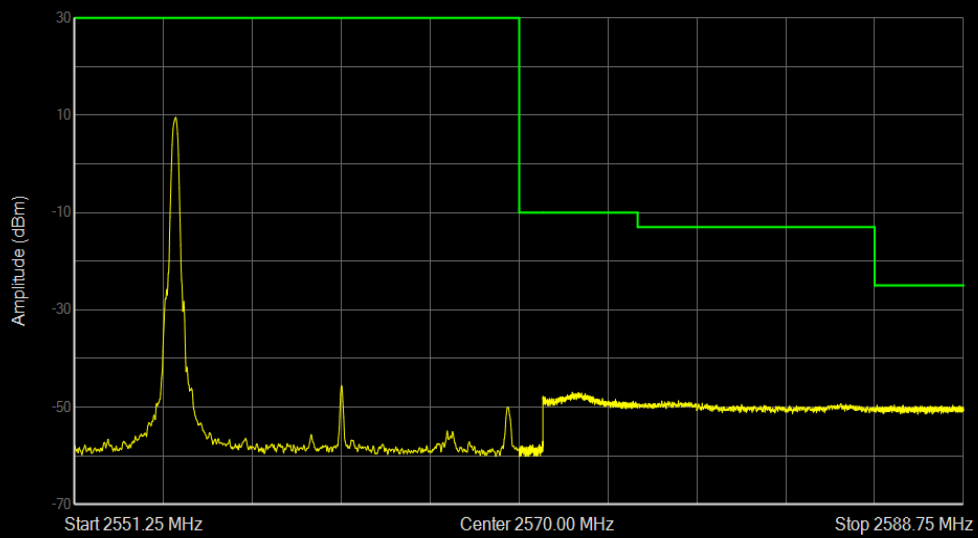
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2490.5	1000	2486.23575	-49.46	-25
2	2490.5	2496	1000	2495.7415	-48.86	-13
3	2496	2499	1000	2497.41	-46.59	-10
4	2499	2500	100	2499.41	-56.89	-10

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



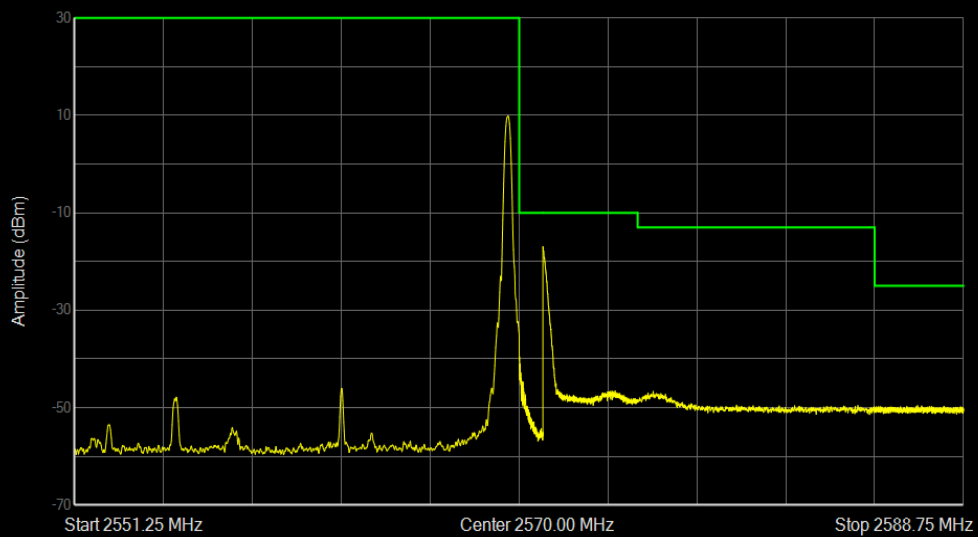
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2490.5	1000	2490.49075	-37.67	-25
2	2490.5	2496	1000	2495.7855	-31.97	-13
3	2496	2499	1000	2499	-28.58	-10
4	2499	2500	300	2500	-30.76	-10

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



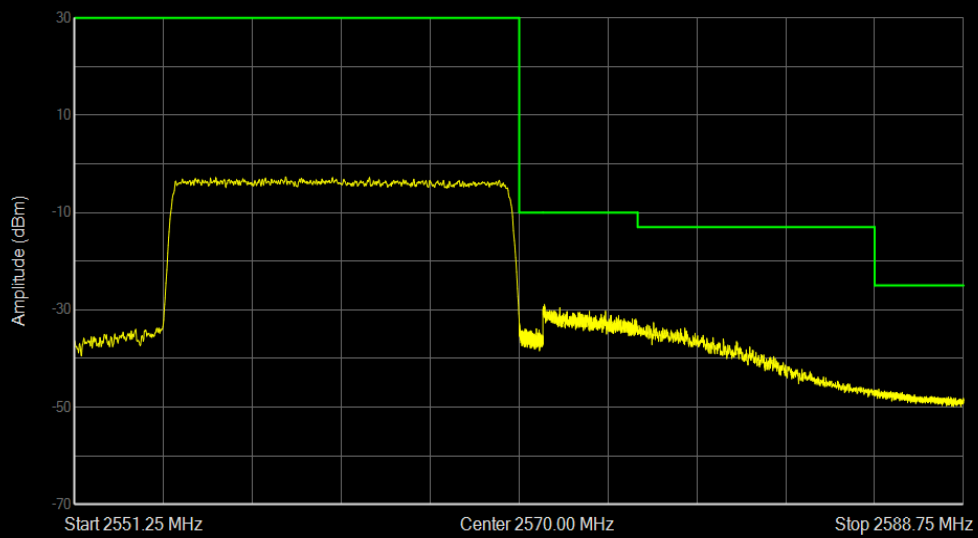
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.994	-57.02	-10
3	2571	2575	1000	2572.24	-46.93	-10
4	2575	2585	1000	2576.72	-48.68	-13
5	2585	2588.75	1000	2585.0975	-49.59	-25

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



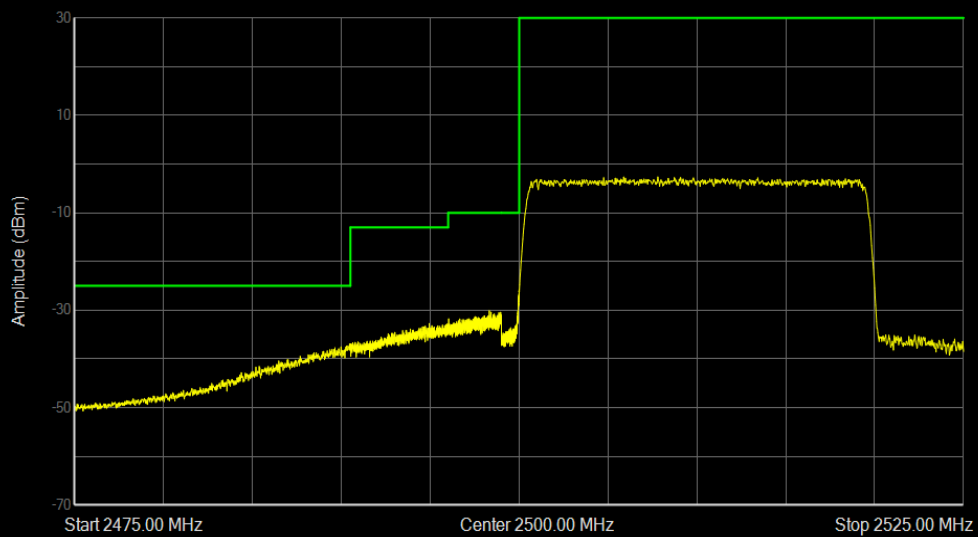
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.006	-39.54	-10
3	2571	2575	1000	2571.004	-16.99	-10
4	2575	2585	1000	2575.65	-46.66	-13
5	2585	2588.75	1000	2586.8075	-49.58	-25

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

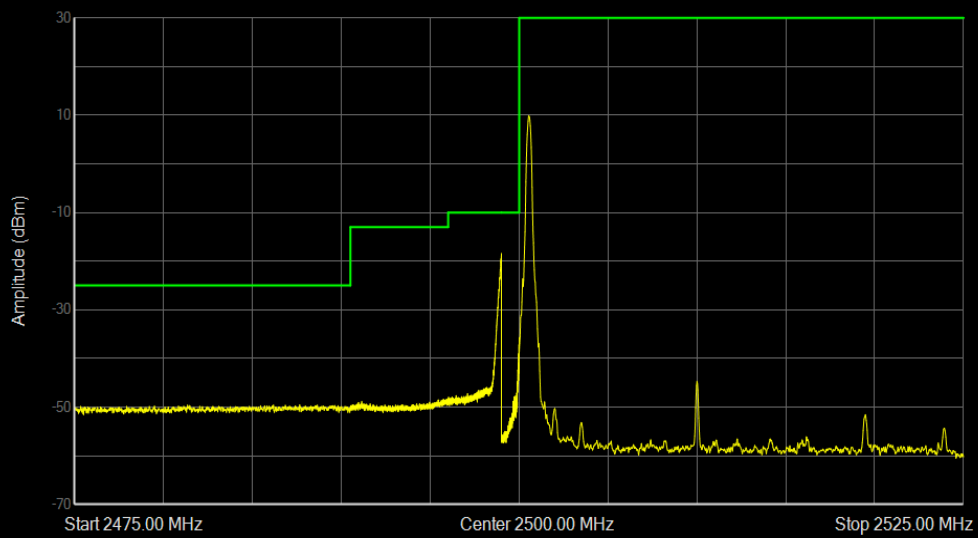


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	300	2570.005	-32.68	-10
3	2571	2575	1000	2571.064	-28.93	-10
4	2575	2585	1000	2575.67	-32.63	-13
5	2585	2588.75	1000	2585.1725	-46.3	-25

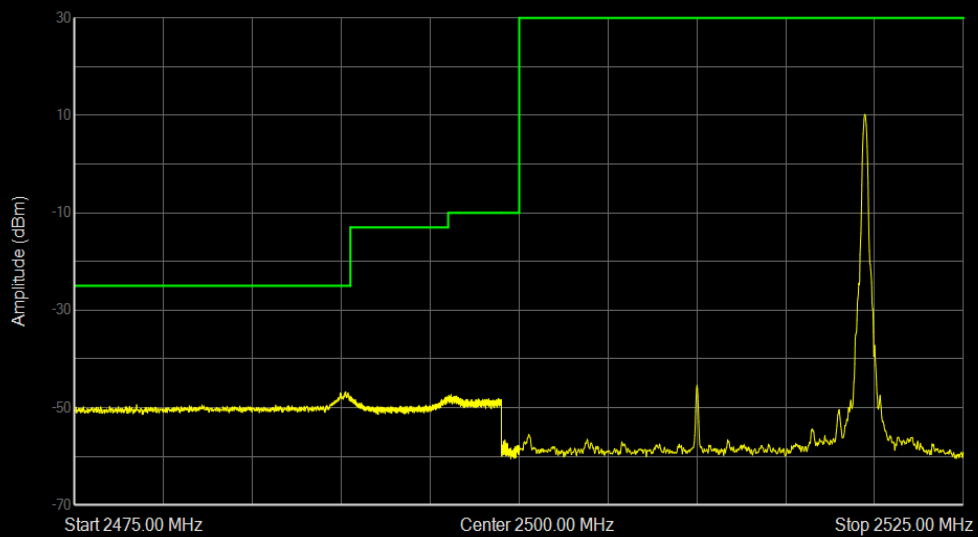
n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=106@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2490.4535	-36.92	-25
2	2490.5	2496	1000	2494.933	-32.73	-13
3	2496	2499	1000	2498.316	-30.11	-10
4	2499	2500	430	2500	-25.69	-10

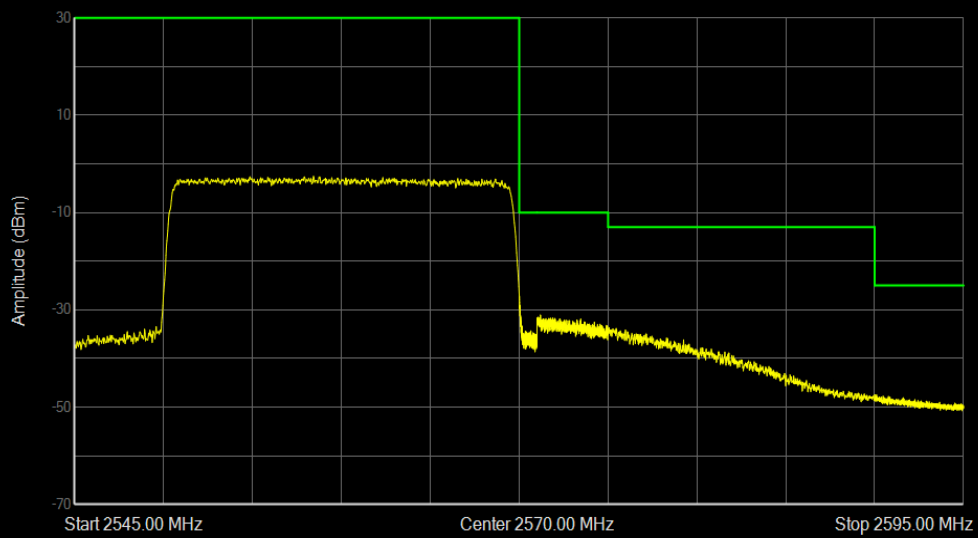
n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2487.648	-49.54	-25
2	2490.5	2496	1000	2495.989	-48.22	-13
3	2496	2499	1000	2499	-18.44	-10
4	2499	2500	100	2500	-35.71	-10

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

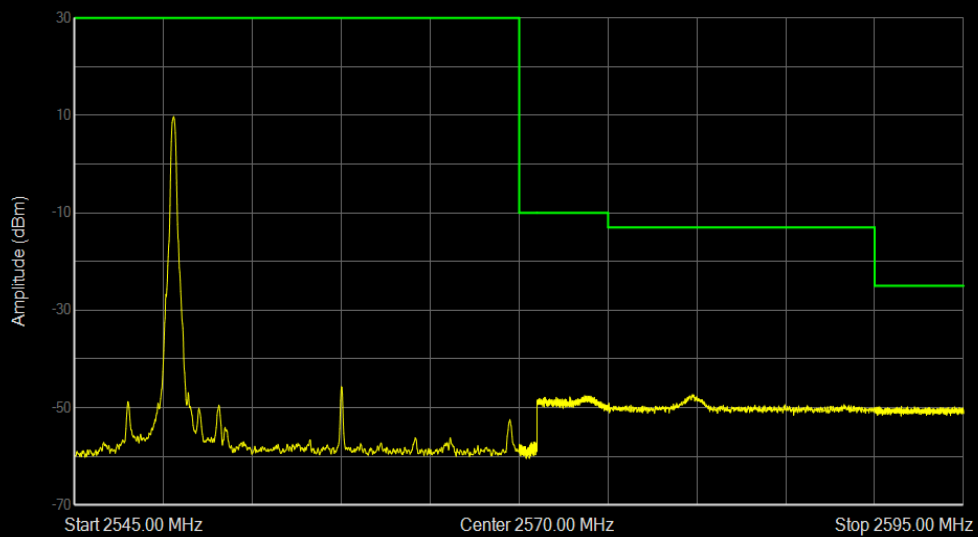
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490.5	1000	2490.2365	-46.74	-25
2	2490.5	2496	1000	2495.912	-47.78	-13
3	2496	2499	1000	2496.168	-47.32	-10
4	2499	2500	100	2499.193	-56.72	-10

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



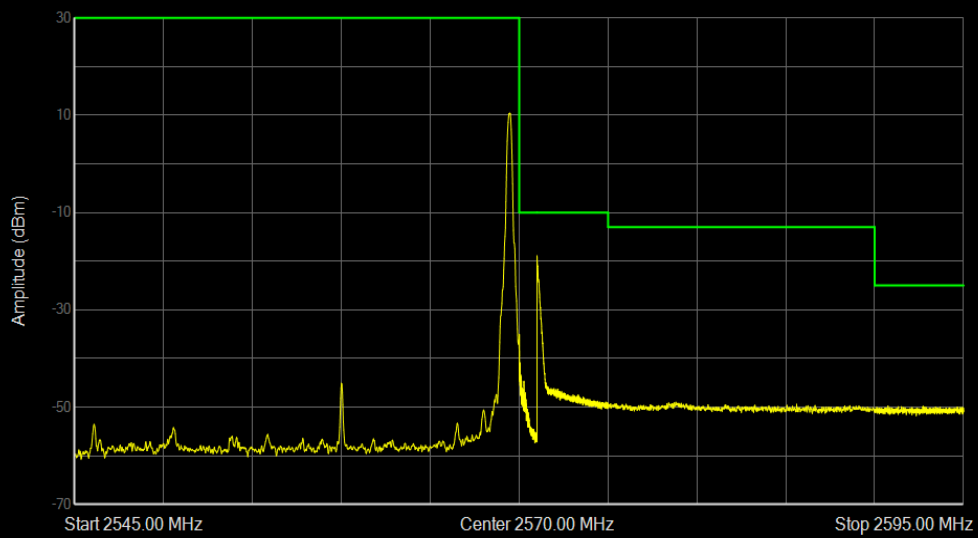
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	430	2570.001	-26.78	-10
3	2571	2575	1000	2571.196	-31.06	-10
4	2575	2590	1000	2575.06	-33.67	-13
5	2590	2595	1000	2590.005	-47.43	-25

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



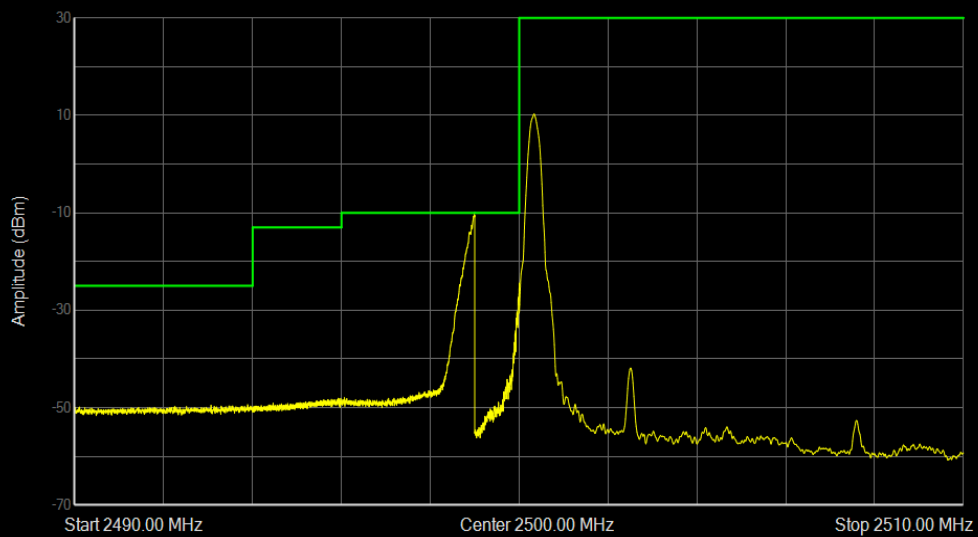
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.819	-57.1	-10
3	2571	2575	1000	2573.684	-47.55	-10
4	2575	2590	1000	2579.8	-47.34	-13
5	2590	2595	1000	2591.505	-49.74	-25

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



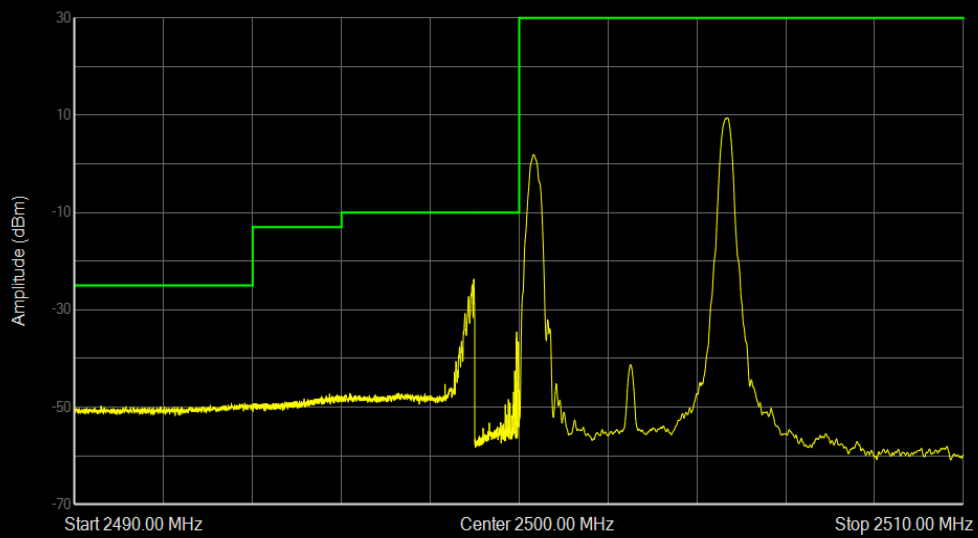
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.007	-35.05	-10
3	2571	2575	1000	2571.004	-19.1	-10
4	2575	2590	1000	2578.81	-48.96	-13
5	2590	2595	1000	2590.75	-49.75	-25

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



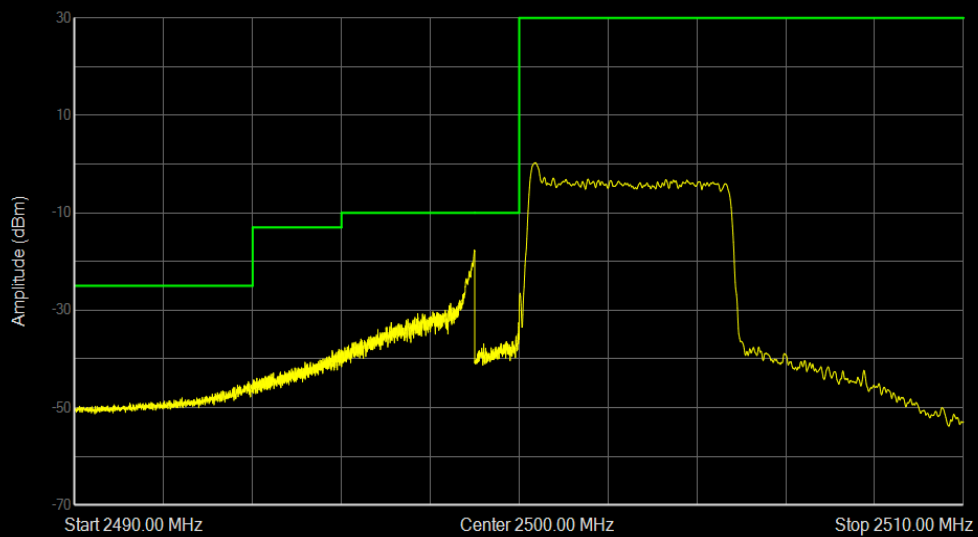
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2493.888	-49.4	-25
2	2494	2496	1000	2495.924	-48.07	-13
3	2496	2499	1000	2498.988	-10.4	-10
4	2499	2500	100	2500	-24.43	-10

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



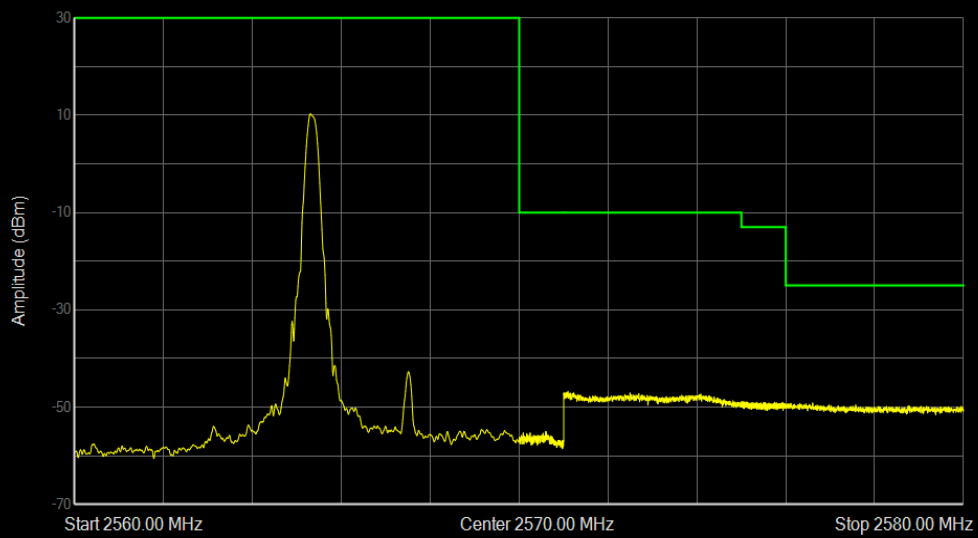
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2493.824	-49.18	-25
2	2494	2496	1000	2495.73	-47.29	-13
3	2496	2499	1000	2498.979	-23.68	-10
4	2499	2500	100	2499.943	-34.58	-10

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



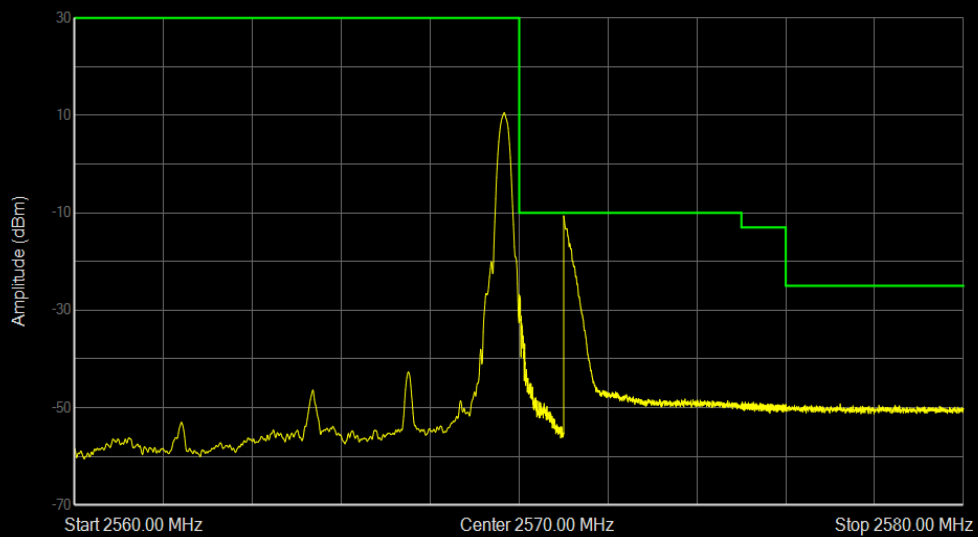
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2490	2494	1000	2493.904	-44.67	-25
2	2494	2496	1000	2495.942	-38.03	-13
3	2496	2499	1000	2498.991	-17.64	-10
4	2499	2500	100	2499.988	-32.56	-10

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	2570.598	-54.98	-10
3	2571	2575	1000	2571.096	-46.79	-10
4	2575	2576	1000	2575.007	-48.84	-13
5	2576	2580	1000	2576.604	-49.14	-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	2570.011	-27.06	-10
3	2571	2575	1000	2571.004	-10.85	-10
4	2575	2576	1000	2575.016	-48.85	-13
5	2576	2580	1000	2577.224	-49.22	-25

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

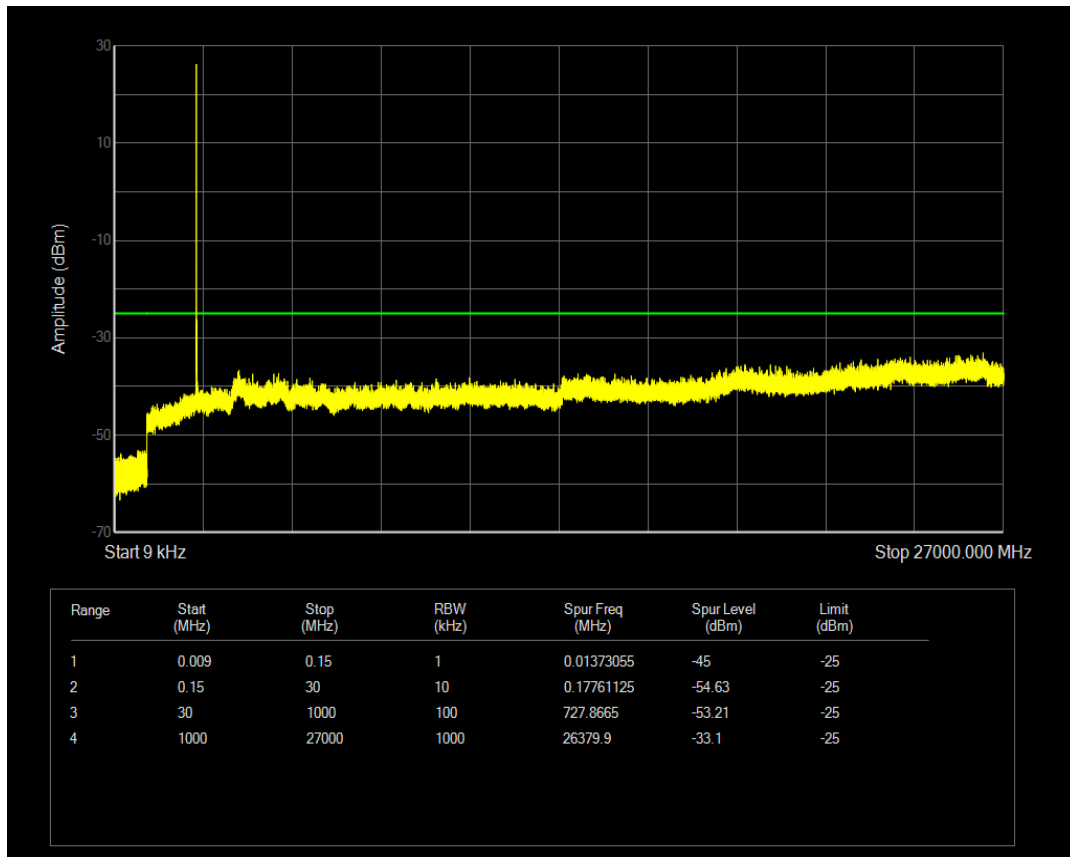


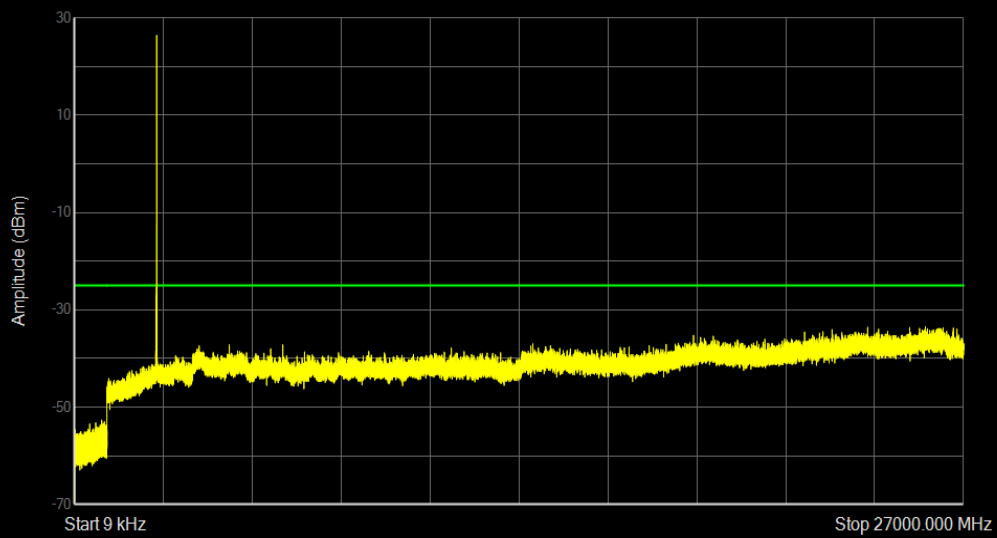
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	100	2570.009	-33.29	-10
3	2571	2575	1000	2571.004	-22.69	-10
4	2575	2576	1000	2575.105	-40.95	-13
5	2576	2580	1000	2576.084	-43.07	-25

6 Out-of-band emissions for NR FR1

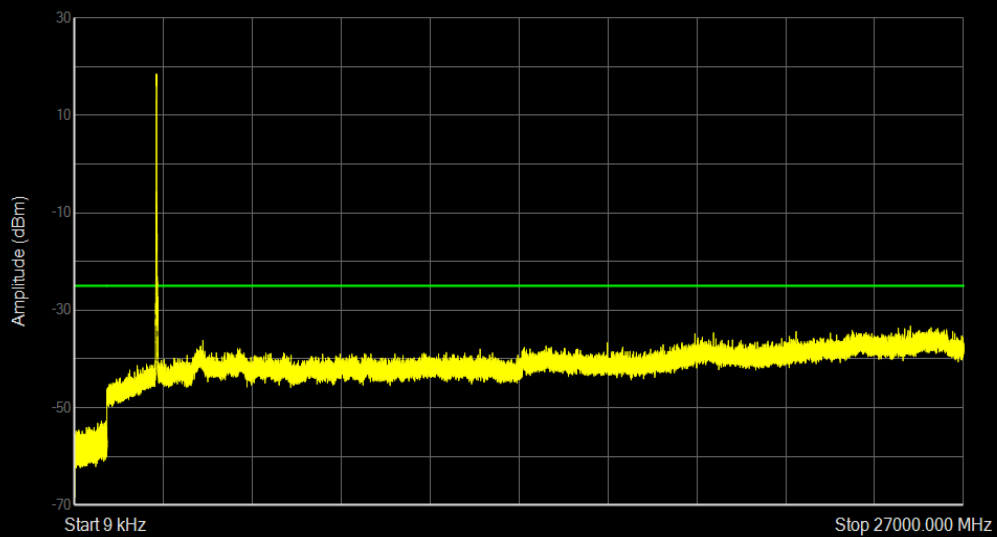
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n7	15	5	500500	25@0	CP_QPSK	25796.20	-33.32	-25	PASS
n7	15	5	500500	1@0	CP_QPSK	26309.05	-33.07	-25	PASS
n7	15	5	500500	1@24	CP_QPSK	25859.25	-32.51	-25	PASS
n7	15	5	513500	25@0	CP_QPSK	26471.55	-32.90	-25	PASS
n7	15	5	513500	1@0	CP_QPSK	26221.30	-33.08	-25	PASS
n7	15	5	513500	1@24	CP_QPSK	26284.35	-32.99	-25	PASS
n7	15	15	501500	79@0	CP_QPSK	25389.30	-33.25	-25	PASS
n7	15	15	501500	1@0	CP_QPSK	26379.90	-33.10	-25	PASS
n7	15	15	501500	1@78	CP_QPSK	25843.00	-33.50	-25	PASS
n7	15	15	512500	79@0	CP_QPSK	26499.50	-32.39	-25	PASS
n7	15	15	512500	1@0	CP_QPSK	25681.80	-33.12	-25	PASS
n7	15	15	512500	1@78	CP_QPSK	26247.30	-33.08	-25	PASS
n7	15	20	502000	106@0	CP_QPSK	26368.85	-33.36	-25	PASS
n7	15	20	502000	1@0	CP_QPSK	26140.70	-32.86	-25	PASS
n7	15	20	502000	1@105	CP_QPSK	26062.70	-33.15	-25	PASS
n7	15	20	512000	106@0	CP_QPSK	26106.25	-33.43	-25	PASS
n7	15	20	512000	1@0	CP_QPSK	25672.70	-33.58	-25	PASS
n7	15	20	512000	1@105	CP_QPSK	25830.00	-32.36	-25	PASS

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

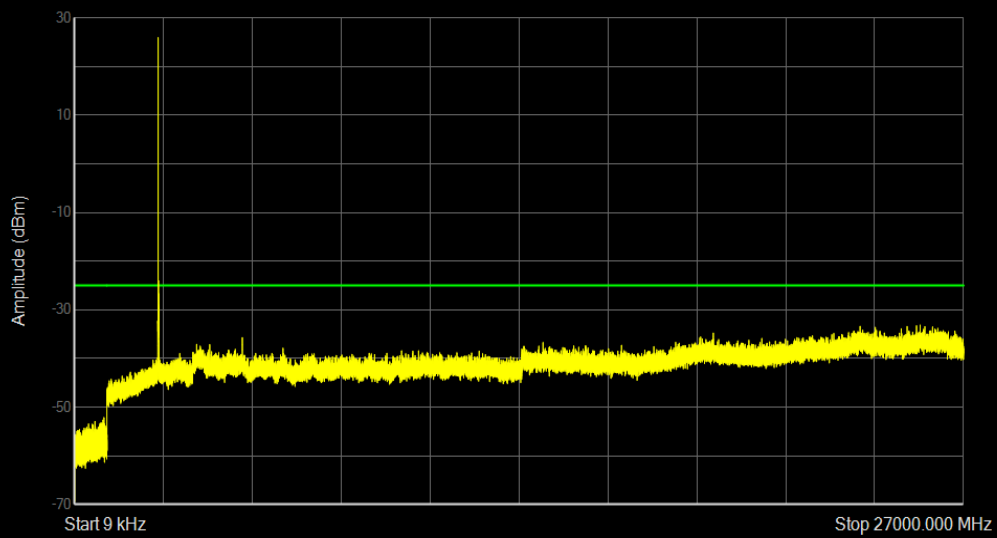


n7 SCS=15kHz CP_QPSK BW=15MHz Channel=501500 RB=1@78

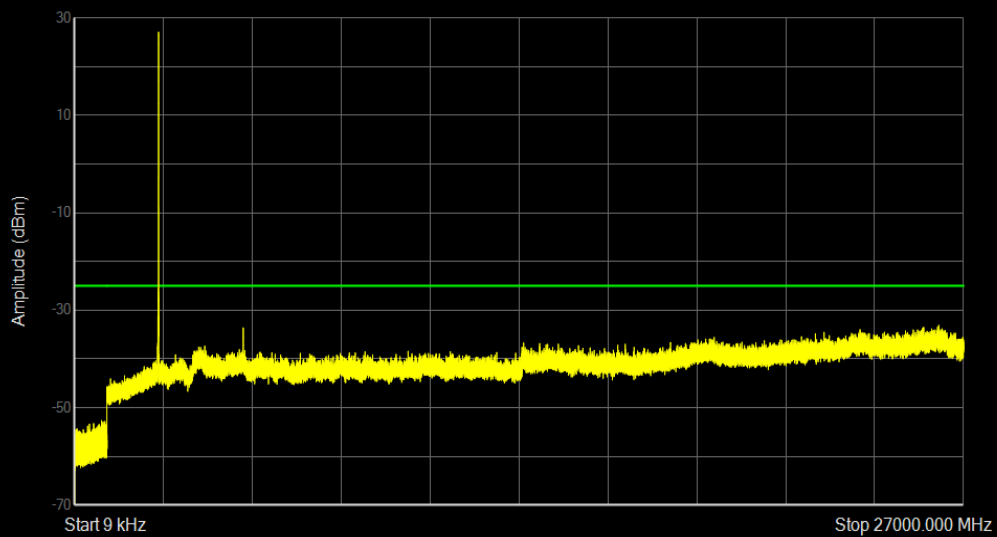
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0157539	-42.51	-25
2	0.15	30	10	0.16194	-55.91	-25
3	30	1000	100	842.375	-52.67	-25
4	1000	27000	1000	25843	-33.5	-25

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	0.0140901	-44.98	-25
2	0.15	30	10	0.152985	-56.13	-25
3	30	1000	100	836.38525	-52.8	-25
4	1000	27000	1000	25389.3	-33.25	-25

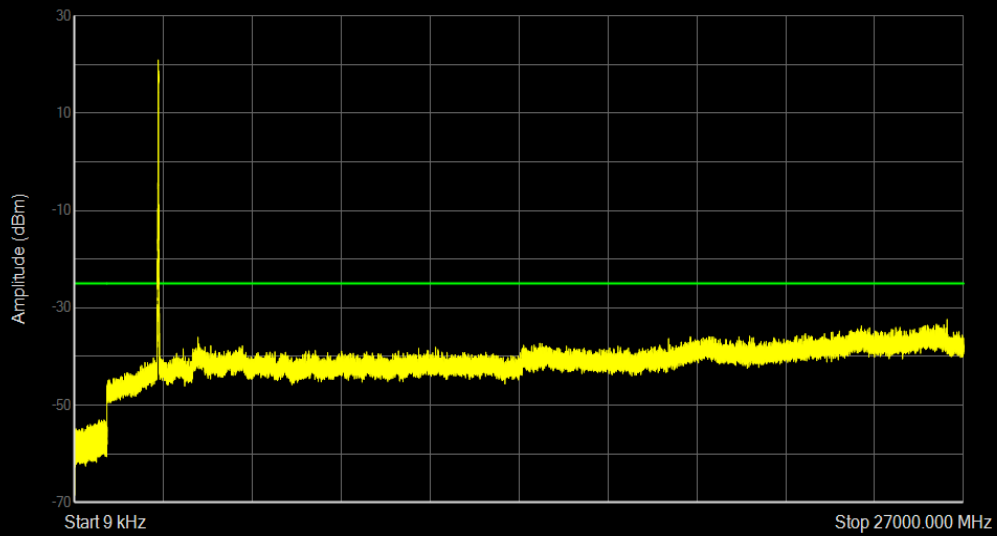
n7 SCS=15kHz CP_QPSK BW=15MHz Channel=512500 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012126675	-45.21	-25
2	0.15	30	10	0.15597	-55.58	-25
3	30	1000	100	913.6215	-52.15	-25
4	1000	27000	1000	25681.8	-33.12	-25

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

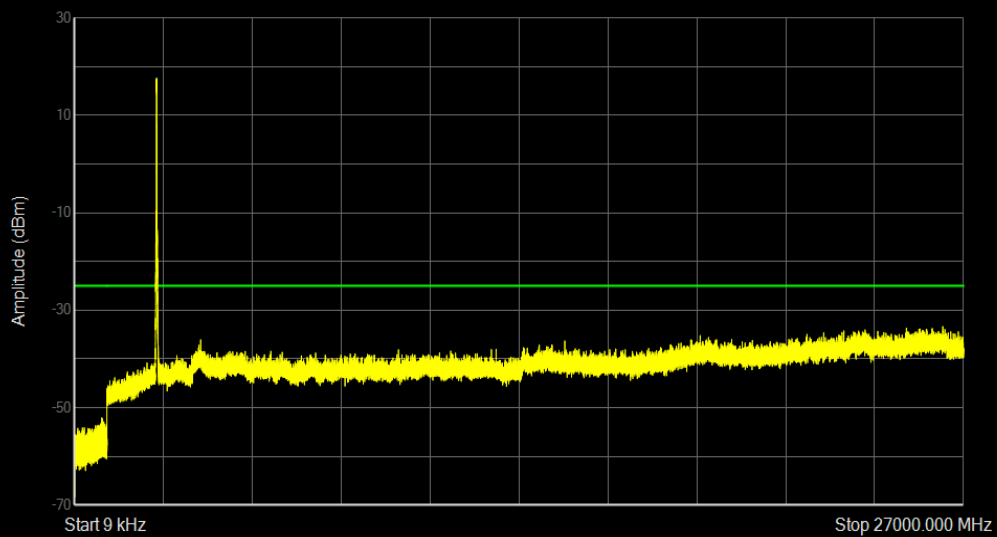
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0145695	-43.34	-25
2	0.15	30	10	0.15597	-55.09	-25
3	30	1000	100	837.88875	-52.64	-25
4	1000	27000	1000	26247.3	-33.08	-25

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

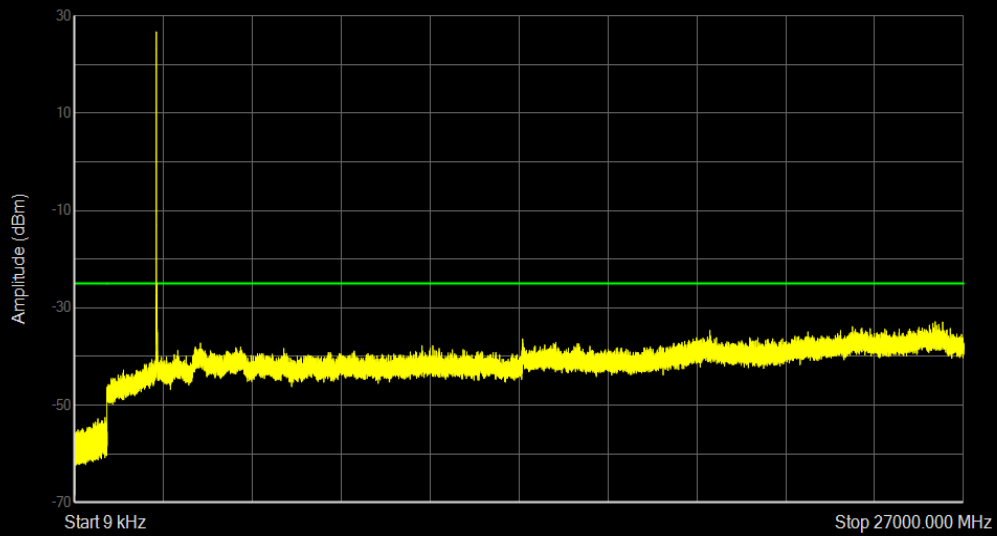


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0148233	-44.73	-25
2	0.15	30	10	0.15373125	-55.88	-25
3	30	1000	100	762.738	-53.05	-25
4	1000	27000	1000	26499.5	-32.39	-25

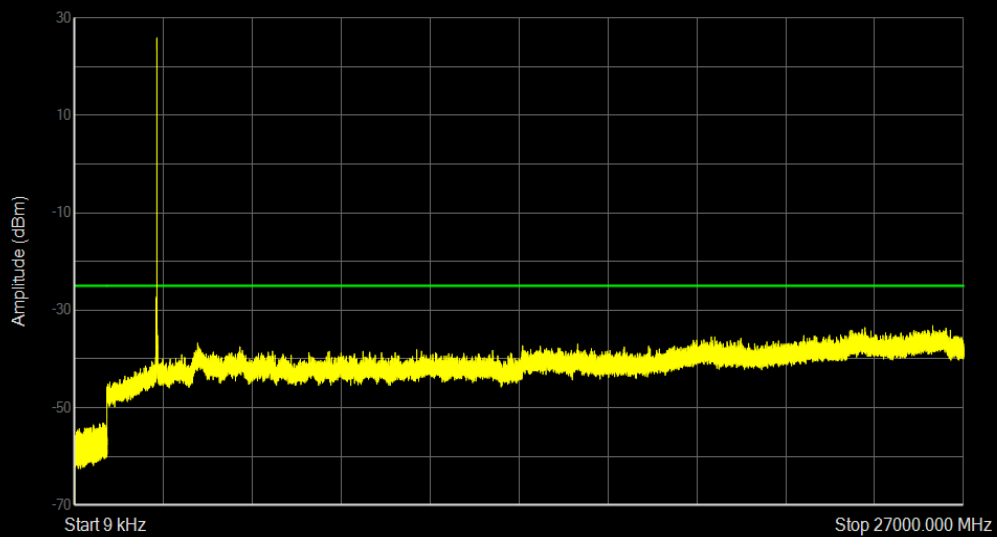
n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=106@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0115662	-44.29	-25
2	0.15	30	10	0.16567125	-54.23	-25
3	30	1000	100	844.994	-52.1	-25
4	1000	27000	1000	26368.85	-33.36	-25

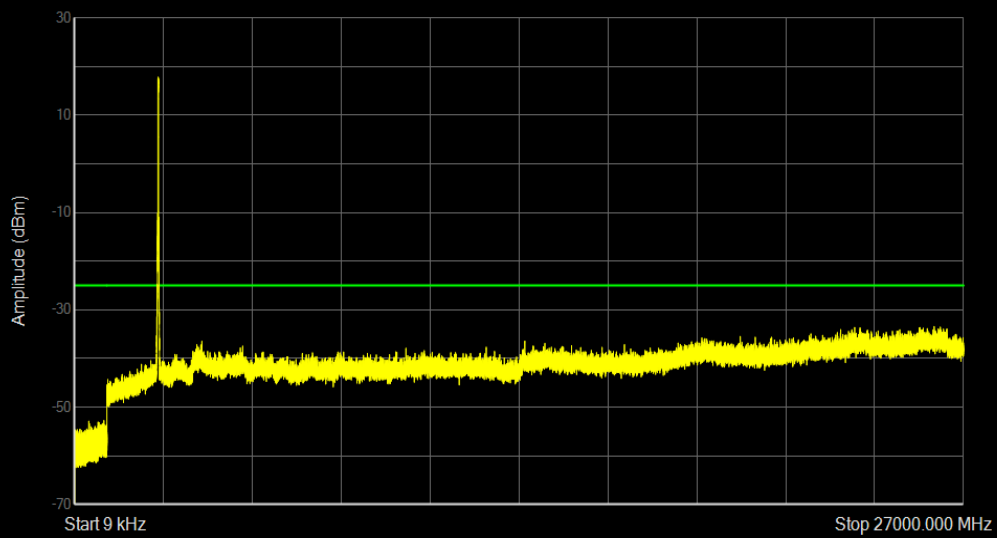
n7 SCS=15kHz CP_QPSK BW=20MHz Channel=502000 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00957105	-42.33	-25
2	0.15	30	10	0.15522375	-55	-25
3	30	1000	100	946.86825	-52.53	-25
4	1000	27000	1000	26140.7	-32.86	-25

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

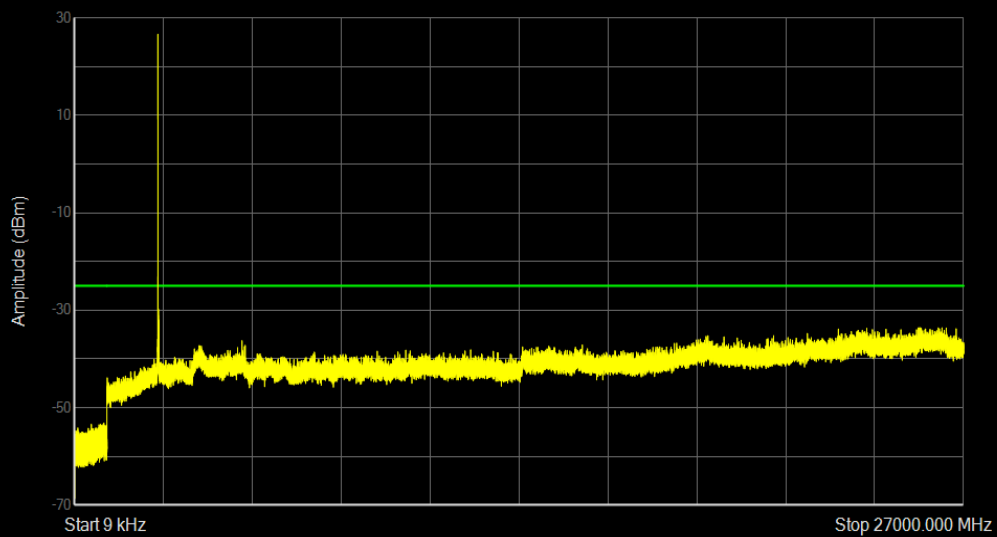
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0116367	-45.29	-25
2	0.15	30	10	0.16791	-55.91	-25
3	30	1000	100	879.40475	-53.2	-25
4	1000	27000	1000	26062.7	-33.15	-25

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



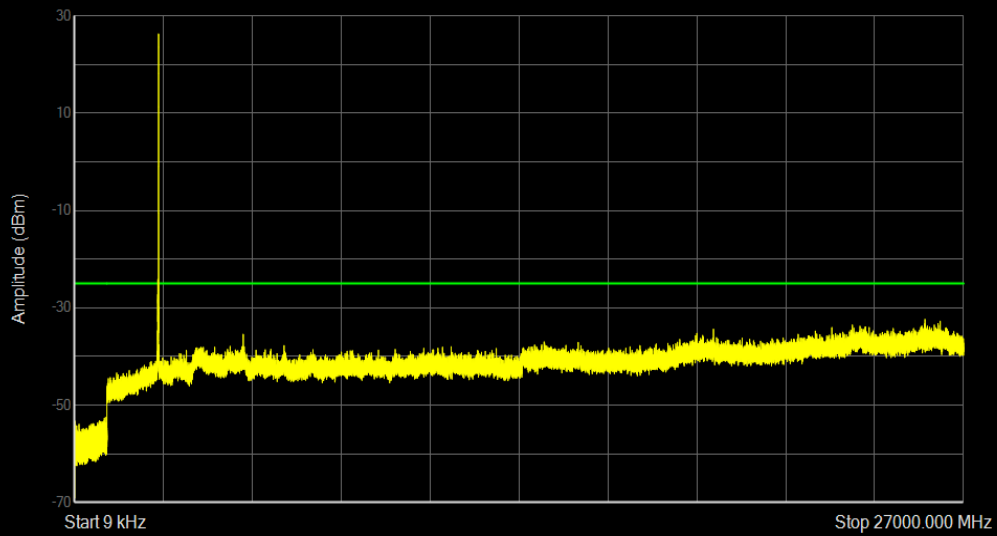
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01026195	-43.75	-25
2	0.15	30	10	0.15074625	-54.85	-25
3	30	1000	100	910.92975	-52.75	-25
4	1000	27000	1000	26106.25	-33.43	-25

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



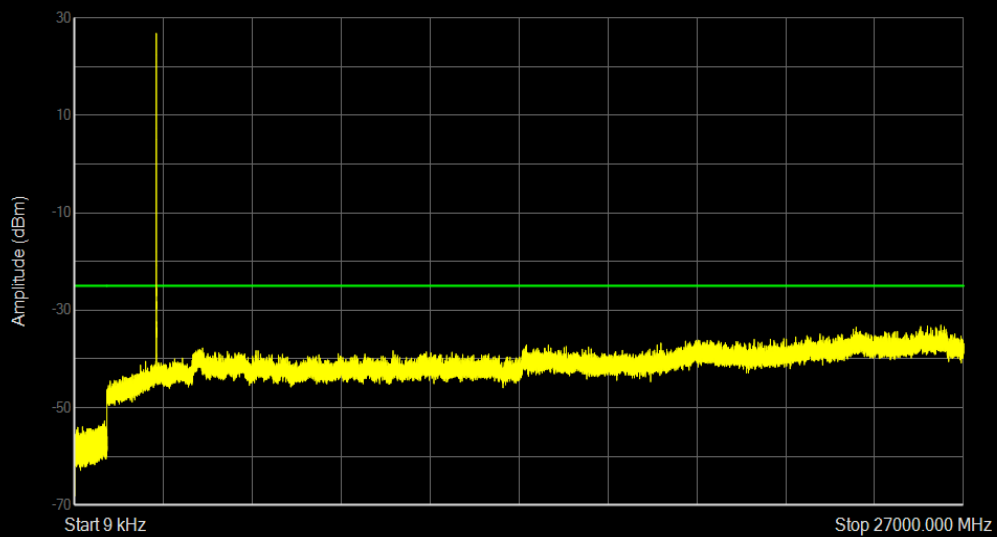
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010744875	-44.52	-25
2	0.15	30	10	0.15522375	-55.07	-25
3	30	1000	100	909.79	-53.18	-25
4	1000	27000	1000	25672.7	-33.58	-25

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

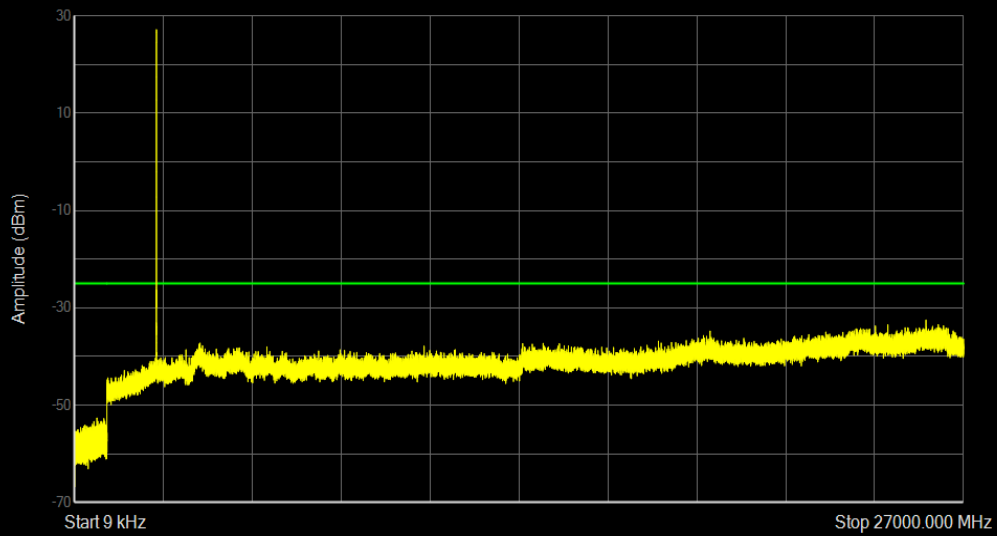


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013170075	-43.97	-25
2	0.15	30	10	0.152985	-54.58	-25
3	30	1000	100	976.0895	-52.52	-25
4	1000	27000	1000	25830	-32.36	-25

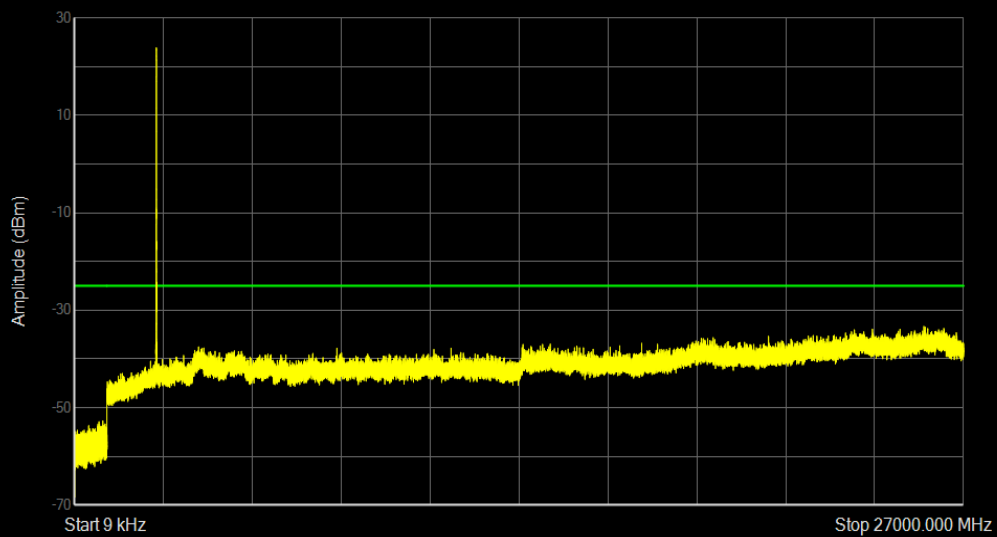
n7 SCS=15kHz CP_QPSK BW=5MHz Channel=500500 RB=1@0



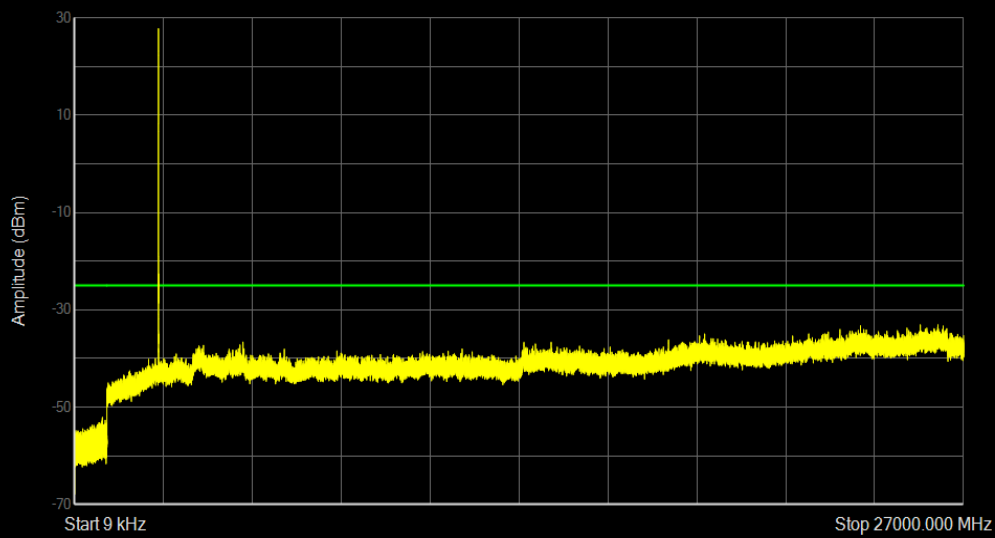
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0117918	-44.67	-25
2	0.15	30	10	0.1604475	-54.71	-25
3	30	1000	100	931.34825	-52.7	-25
4	1000	27000	1000	26309.05	-33.07	-25

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

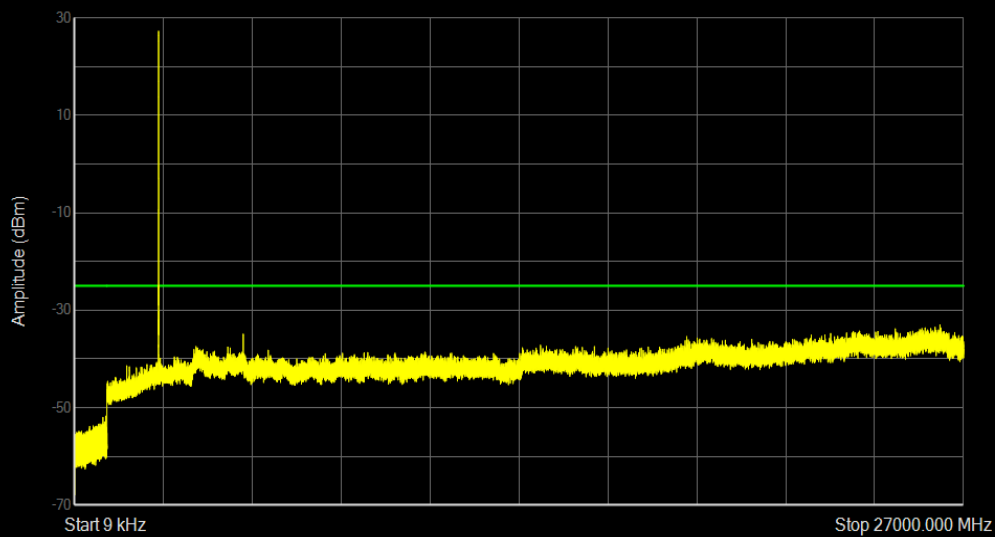
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01021965	-45.08	-25
2	0.15	30	10	0.164925	-54.6	-25
3	30	1000	100	700.3185	-52.65	-25
4	1000	27000	1000	25859.25	-32.51	-25

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	0.013839825	-43.54	-25
2	0.15	30	10	0.15	-54.77	-25
3	30	1000	100	879.3805	-52.75	-25
4	1000	27000	1000	25796.2	-33.32	-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	0.0100011	-45.51	-25
2	0.15	30	10	0.15	-53.36	-25
3	30	1000	100	864.7335	-52.11	-25
4	1000	27000	1000	26221.3	-33.08	-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	0.010519275	-42.17	-25
2	0.15	30	10	0.15074625	-55.94	-25
3	30	1000	100	965.73475	-51.74	-25
4	1000	27000	1000	26284.35	-32.99	-25

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

