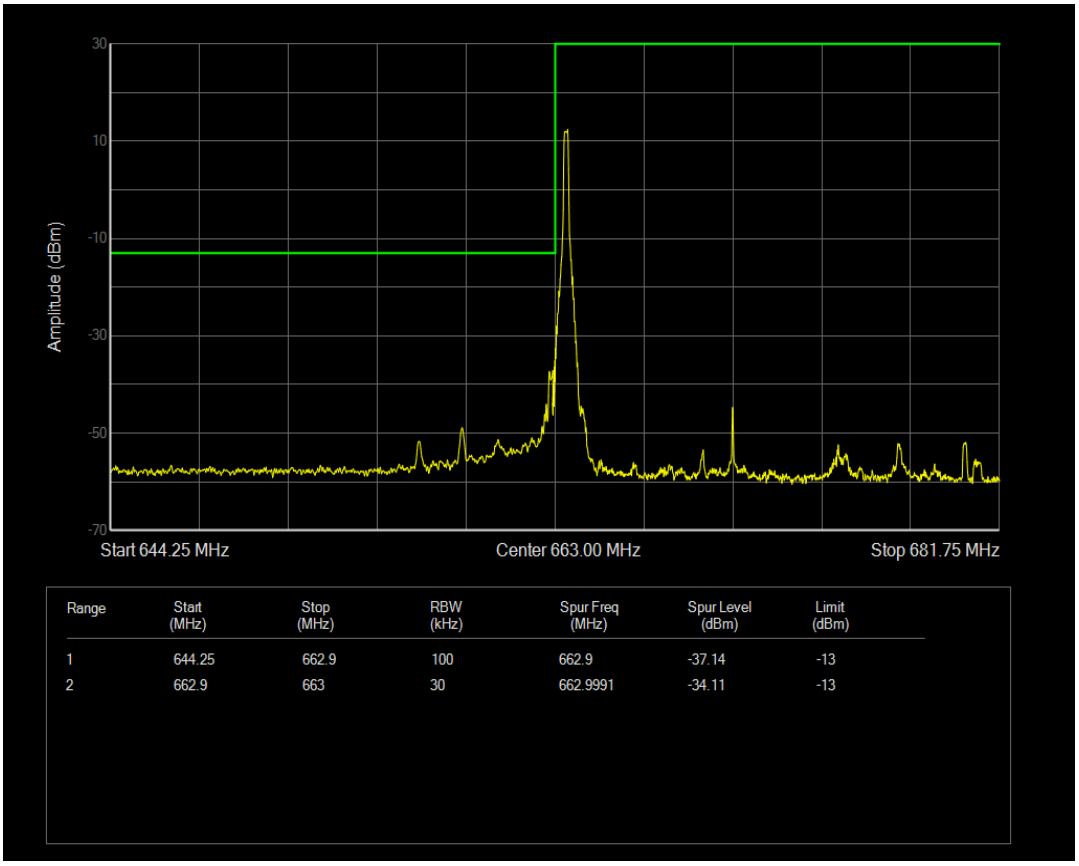
n71 SCS=15kHz DFT_QPSK BW=20MHz Channel=136100 RB=100@0

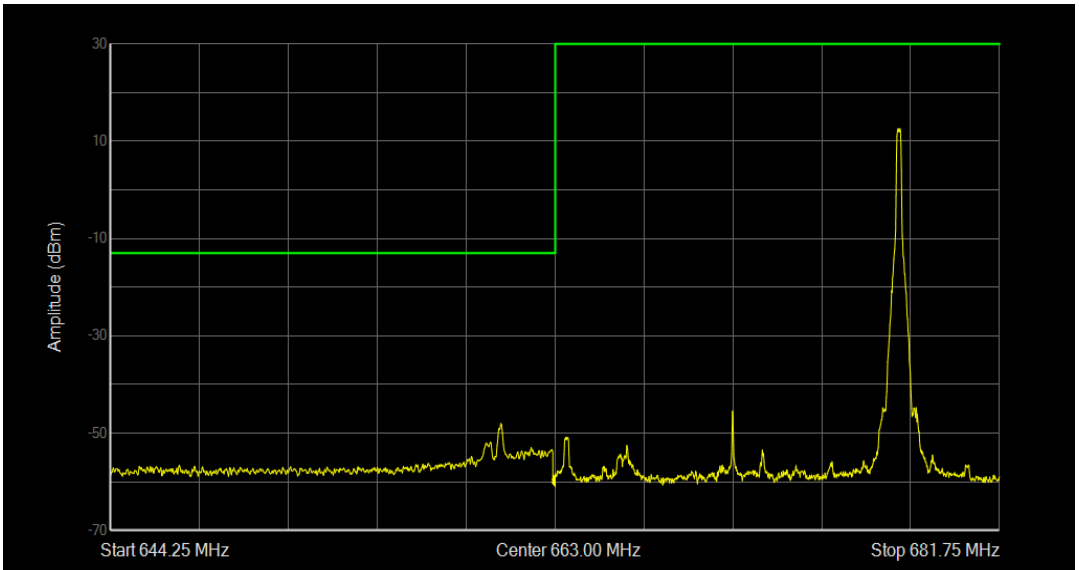
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n71	15	5	133100	25@0	CP_QPSK	662.63	-28.07	-13	PASS
n71	15	5	133100	1@0	CP_QPSK	663.00	-22.36	-13	PASS
n71	15	5	133100	1@24	CP_QPSK	667.63	12.24	30	PASS
n71	15	5	139100	25@0	CP_QPSK	698.82	-30.21	-13	PASS
n71	15	5	139100	1@0	CP_QPSK	693.37	13.03	30	PASS
n71	15	5	139100	1@24	CP_QPSK	698.01	-28.79	-13	PASS
n71	15	15	134100	79@0	CP_QPSK	662.83	-33.34	-13	PASS
n71	15	15	134100	1@0	CP_QPSK	663.53	12.42	30	PASS
n71	15	15	134100	1@78	CP_QPSK	677.55	12.57	30	PASS
n71	15	15	138100	79@0	CP_QPSK	698.72	-33.31	-13	PASS
n71	15	15	138100	1@0	CP_QPSK	683.43	12.91	30	PASS
n71	15	15	138100	1@78	CP_QPSK	697.53	13.10	30	PASS
n71	15	20	134600	106@0	CP_QPSK	662.90	-35.13	-13	PASS
n71	15	20	134600	1@0	CP_QPSK	663.55	12.35	30	PASS
n71	15	20	134600	1@105	CP_QPSK	682.45	12.90	30	PASS
n71	15	20	137600	106@0	CP_QPSK	698.67	-36.09	-13	PASS
n71	15	20	137600	1@0	CP_QPSK	678.53	12.64	30	PASS
n71	15	20	137600	1@105	CP_QPSK	697.48	12.99	30	PASS

n71 SCS=15kHz CP_QPSK BW=15MHz Channel=134100 RB=1@0

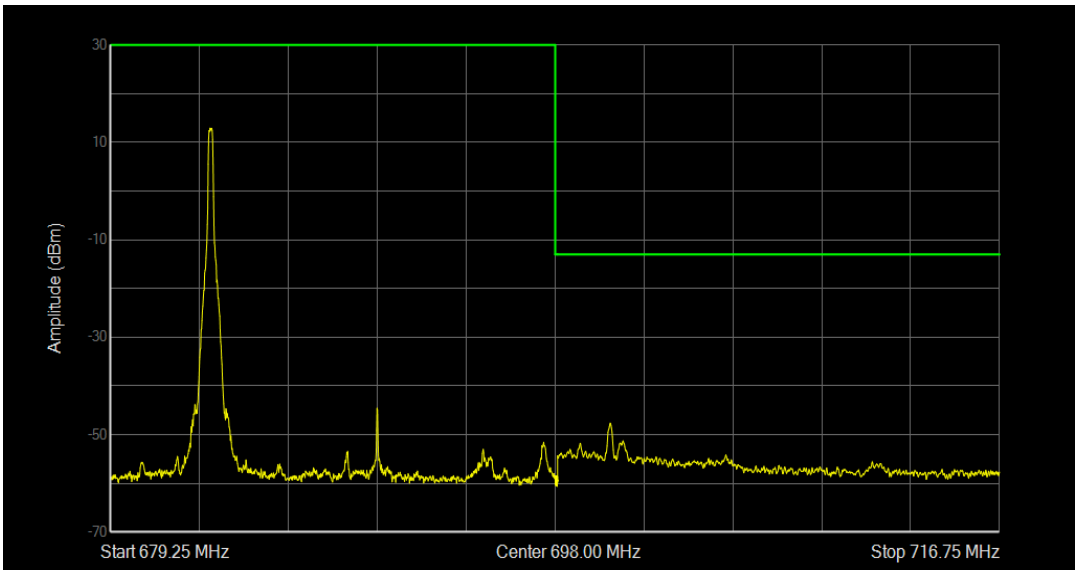


n71 SCS=15kHz CP_QPSK BW=15MHz Channel=134100 RB=1@78



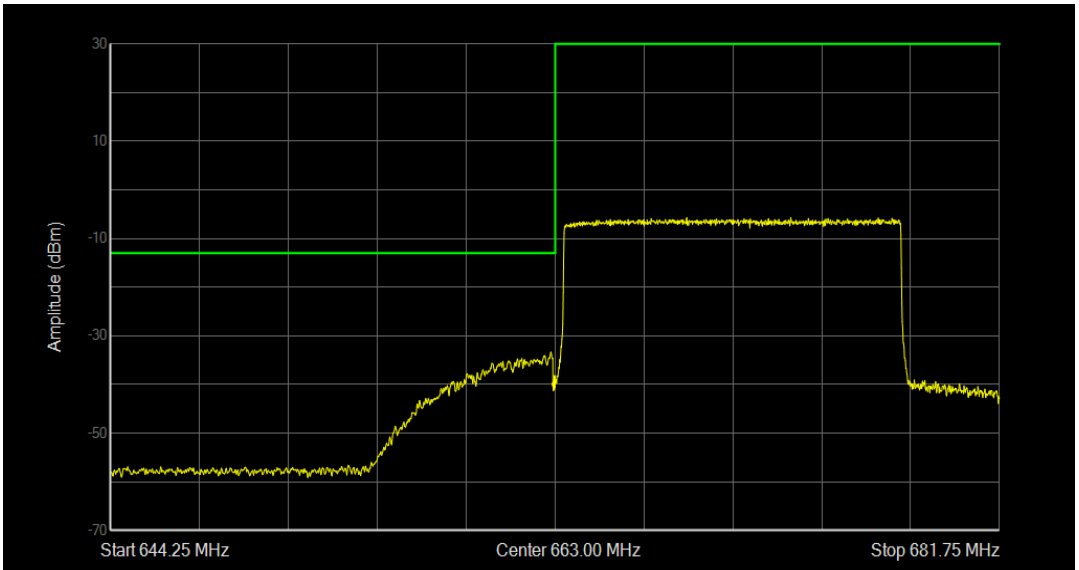
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	644.25	662.9	100	660.71795	-48.02	-13
2	662.9	663	30	662.9229	-58.63	-13

n71 SCS=15kHz CP_QPSK BW=15MHz Channel=138100 RB=1@0



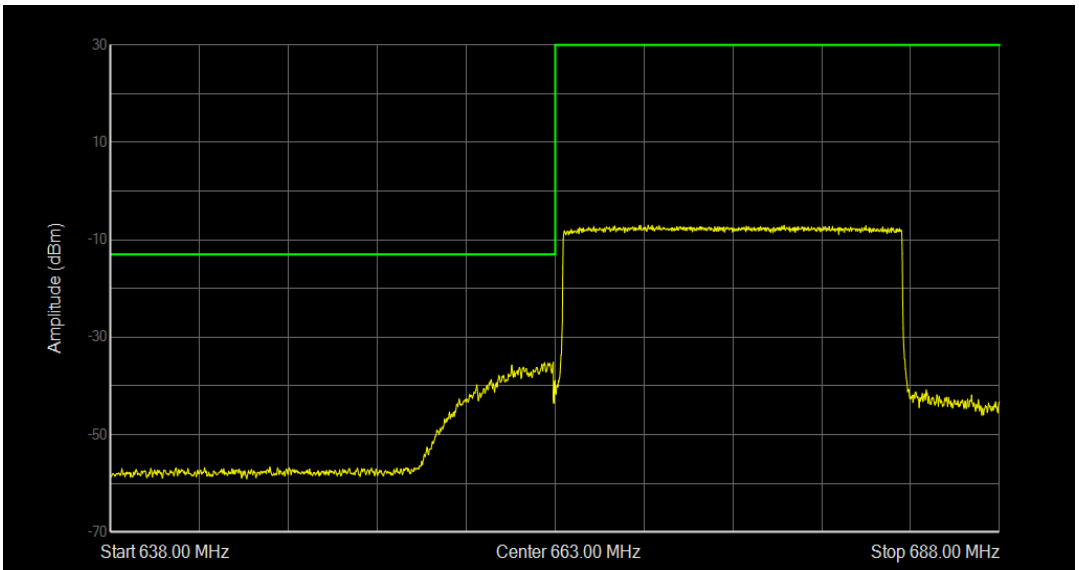
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	698	698.1	30	698.0061	-58.46	-13
3	698.1	716.75	100	700.31935	-47.63	-13

n71 SCS=15kHz CP_QPSK BW=15MHz Channel=134100 RB=79@0



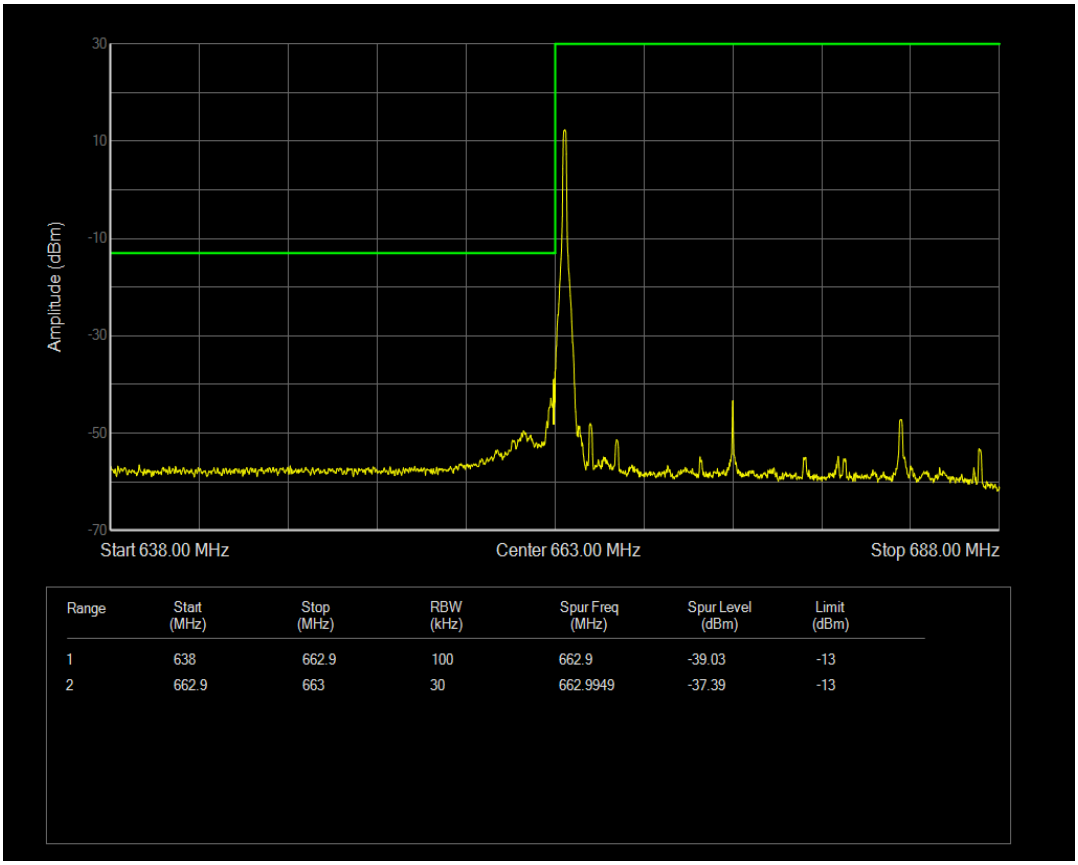
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	644.25	662.9	100	662.8254	-33.34	-13
2	662.9	663	30	662.9652	-38.23	-13

n71 SCS=15kHz CP_QPSK BW=20MHz Channel=134600 RB=106@0



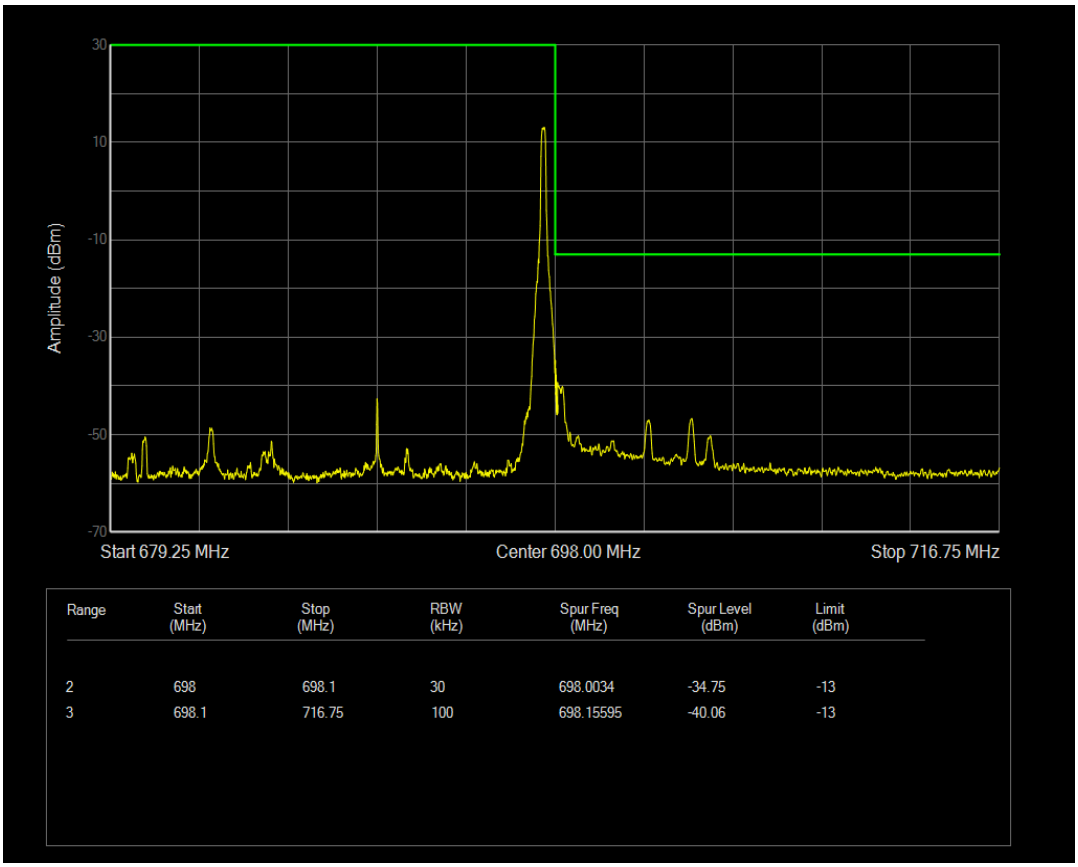
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	638	662.9	100	662.9	-35.13	-13
2	662.9	663	30	662.9847	-38.9	-13

n71 SCS=15kHz CP_QPSK BW=20MHz Channel=134600 RB=1@0



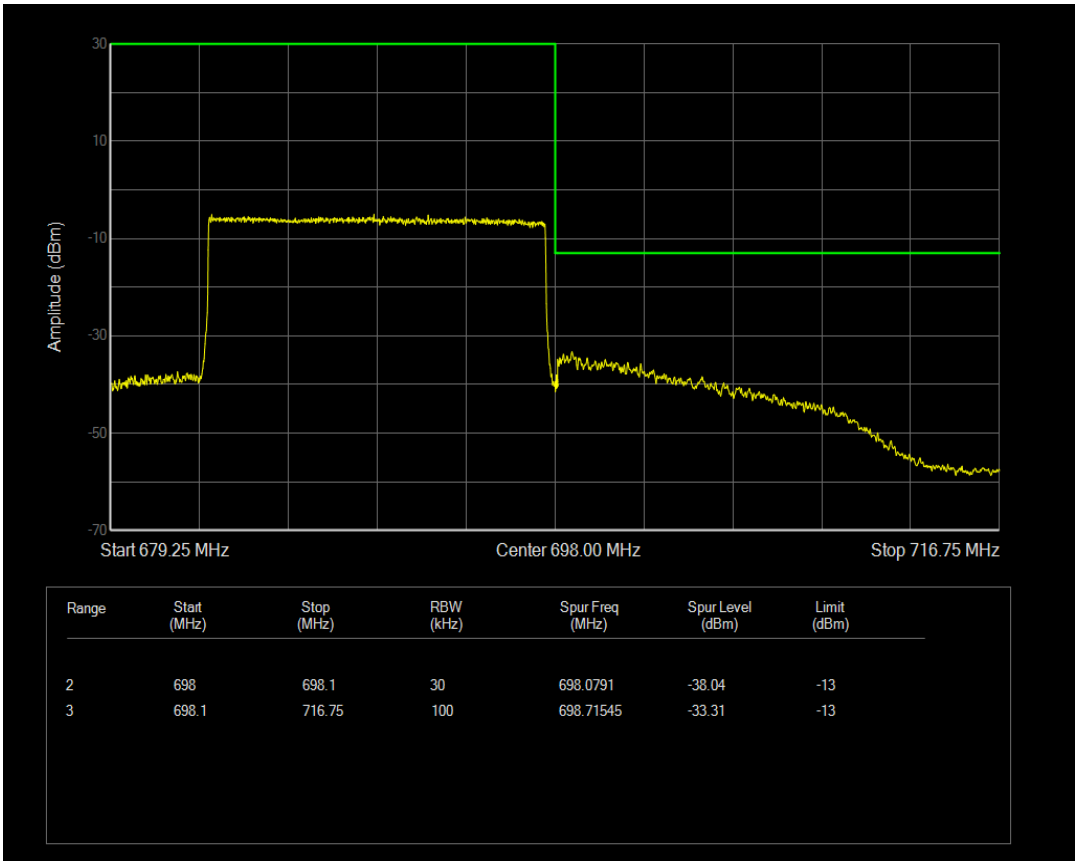
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	638	662.9	100	662.9	-39.03	-13
2	662.9	663	30	662.9949	-37.39	-13

n71 SCS=15kHz CP_QPSK BW=15MHz Channel=138100 RB=1@78

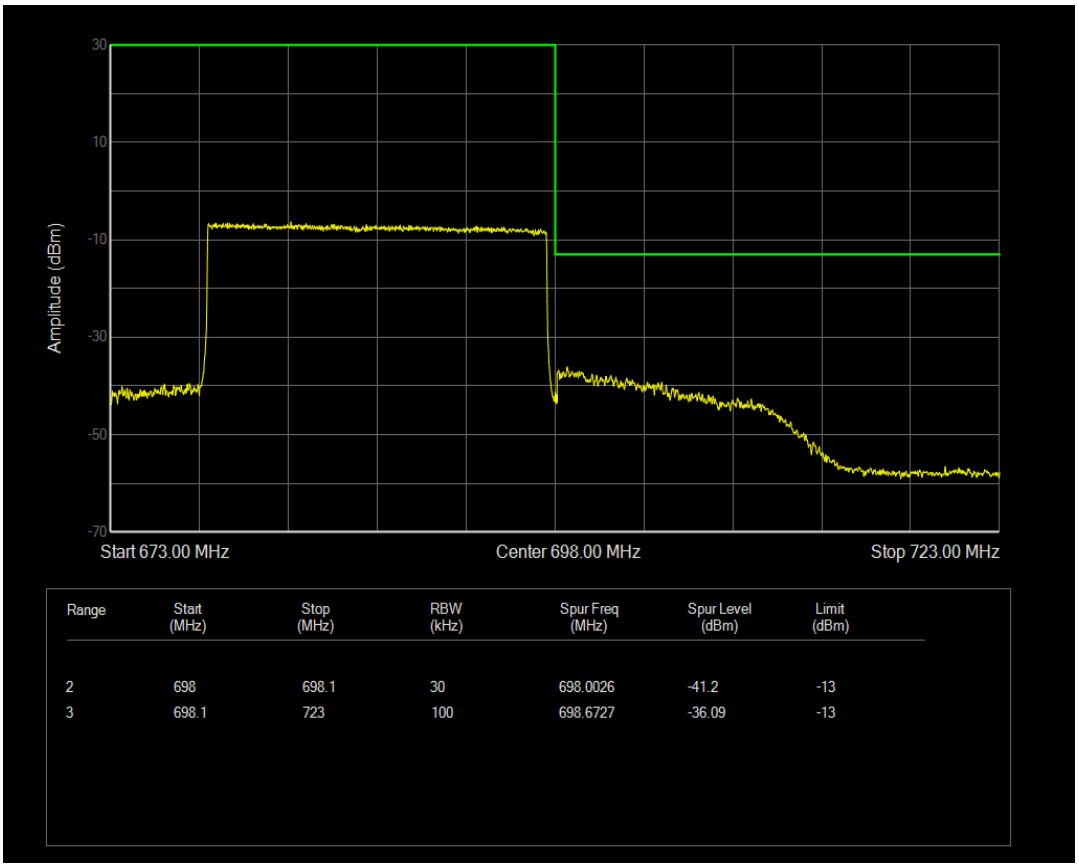


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	698	698.1	30	698.0034	-34.75	-13
3	698.1	716.75	100	698.15595	-40.06	-13

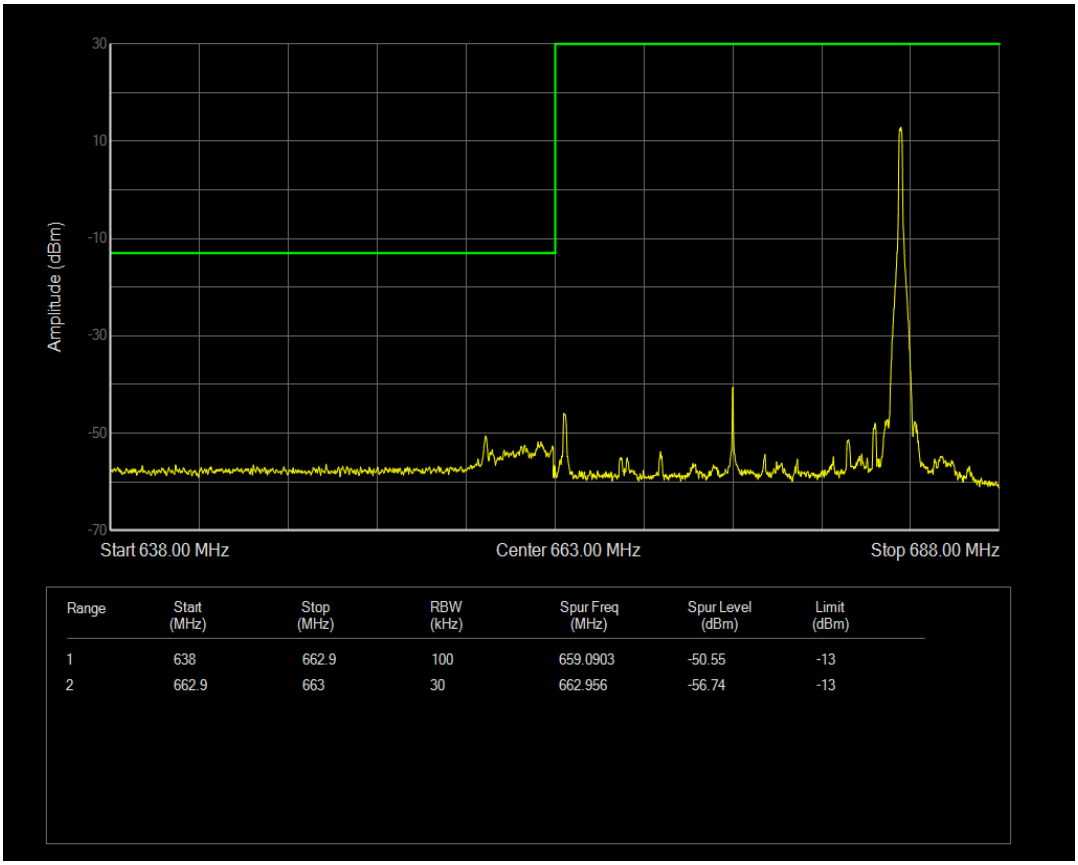
n71 SCS=15kHz CP_QPSK BW=15MHz Channel=138100 RB=79@0



n71 SCS=15kHz CP_QPSK BW=20MHz Channel=137600 RB=106@0

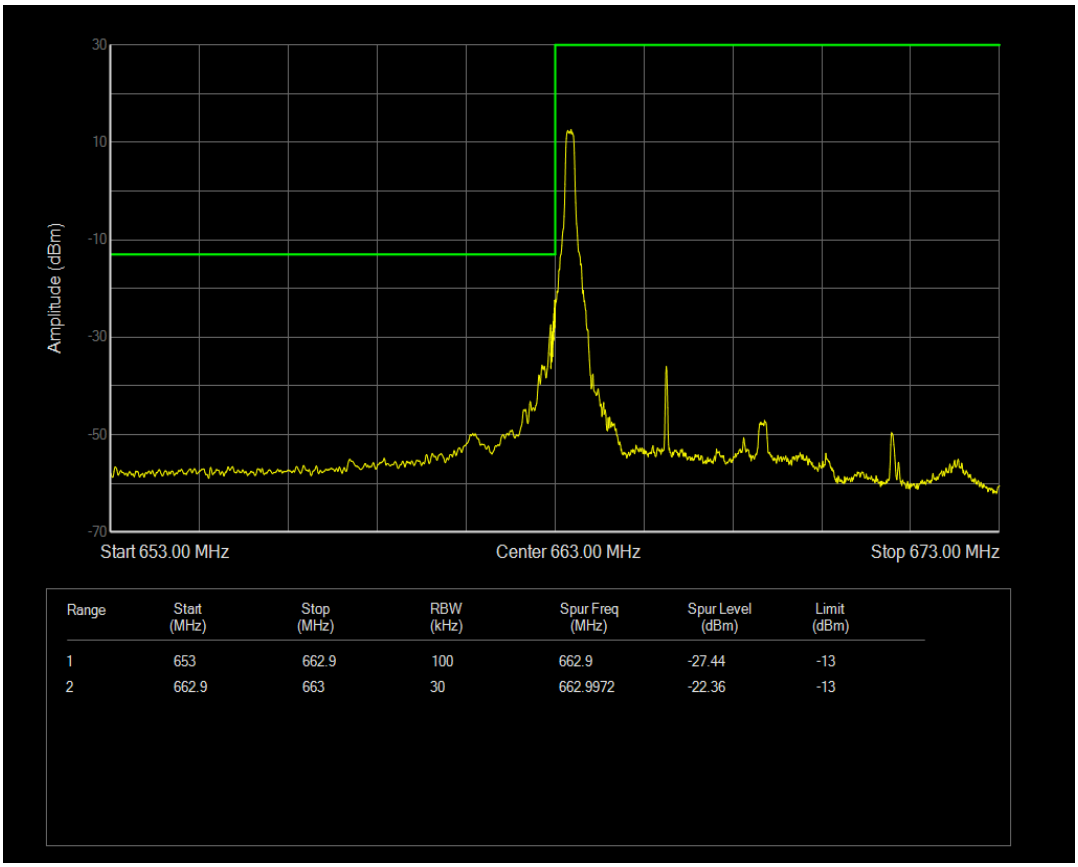


n71 SCS=15kHz CP_QPSK BW=20MHz Channel=134600 RB=1@105



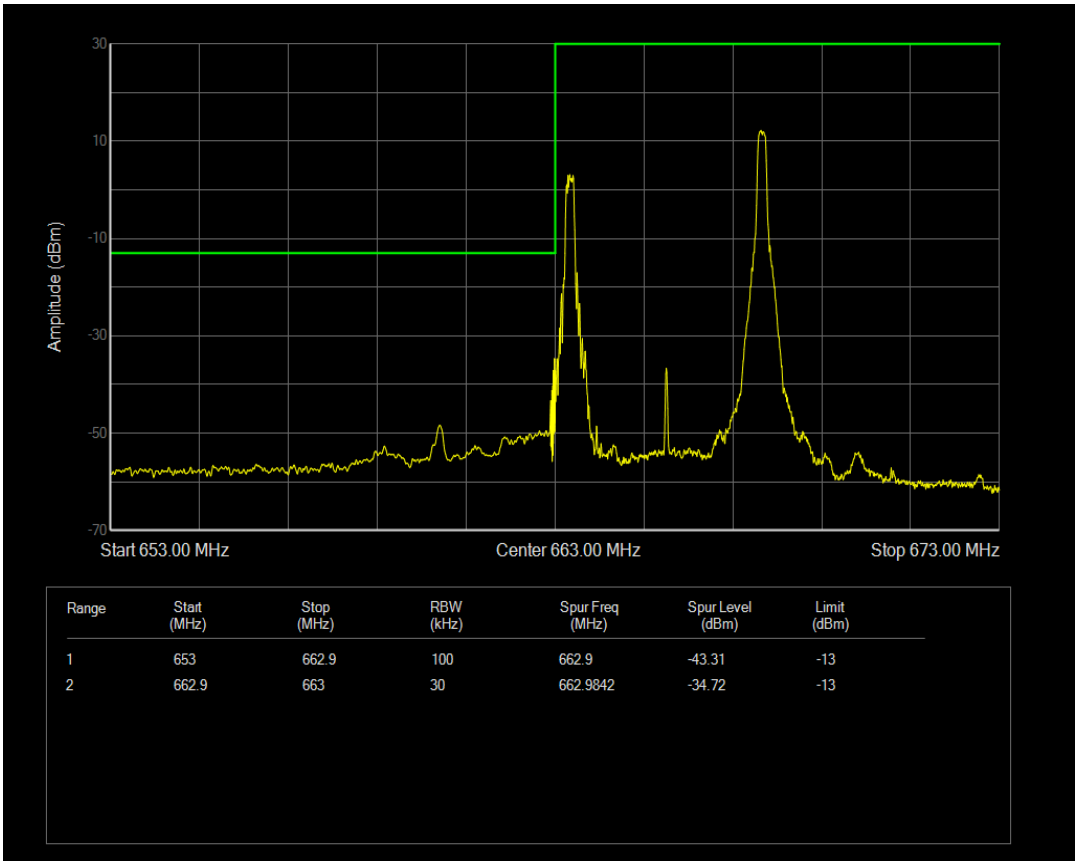
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	638	662.9	100	659.0903	-50.55	-13
2	662.9	663	30	662.956	-56.74	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=133100 RB=1@0



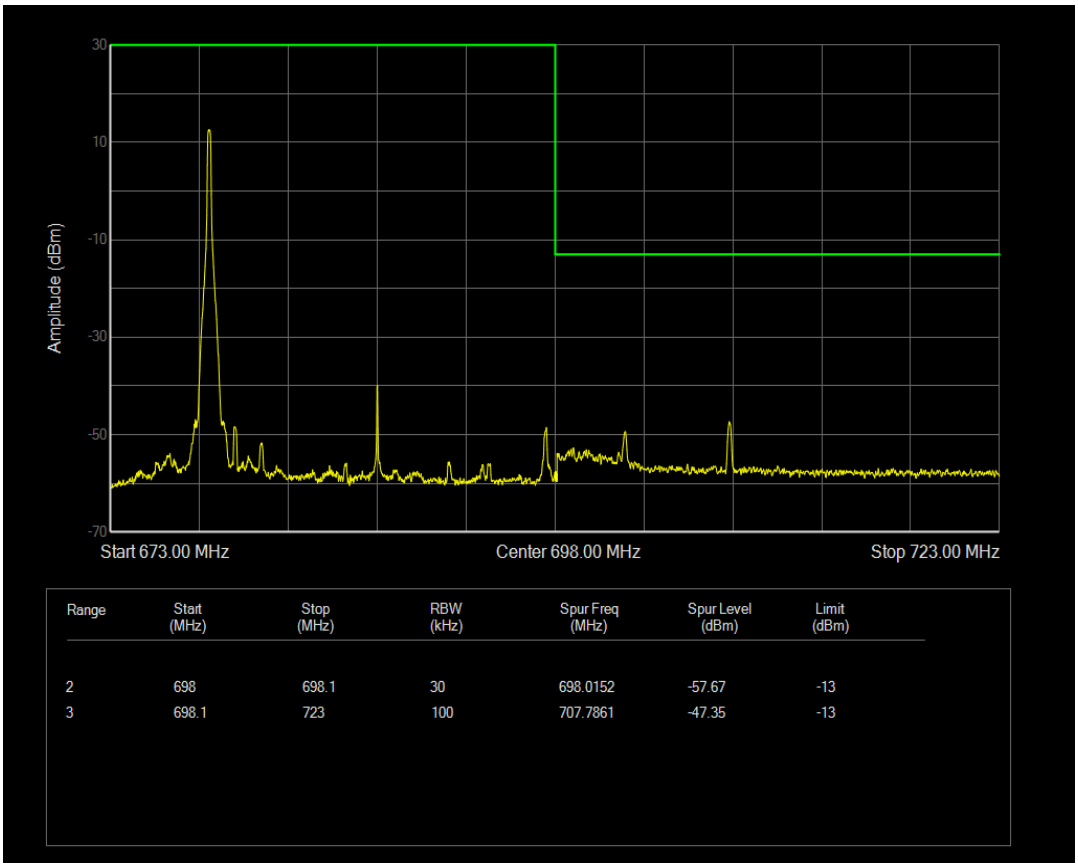
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	653	662.9	100	662.9	-27.44	-13
2	662.9	663	30	662.9972	-22.36	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=133100 RB=1@24



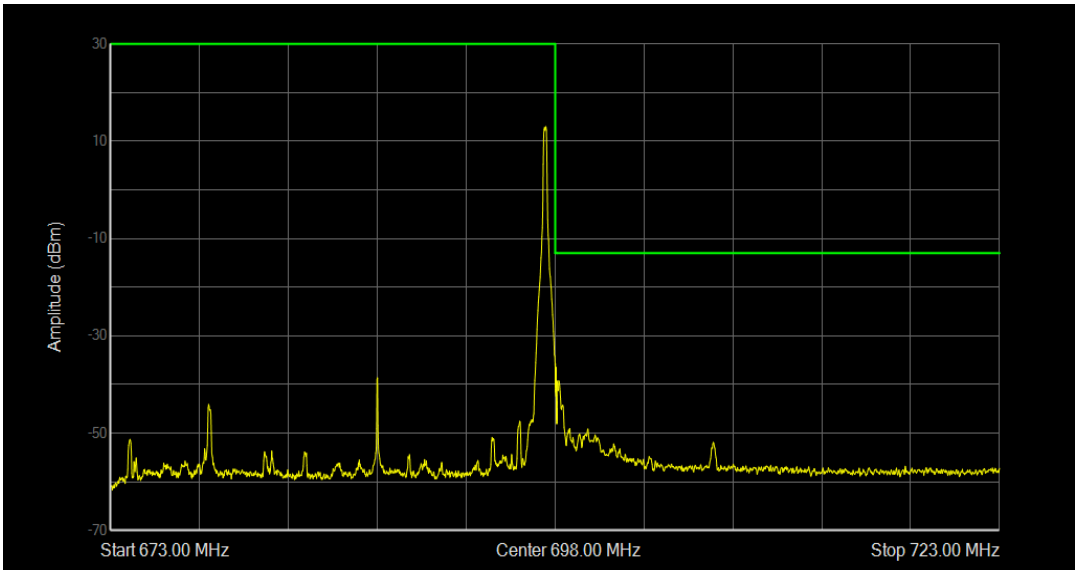
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	653	662.9	100	662.9	-43.31	-13
2	662.9	663	30	662.9842	-34.72	-13

n71 SCS=15kHz CP_QPSK BW=20MHz Channel=137600 RB=1@0



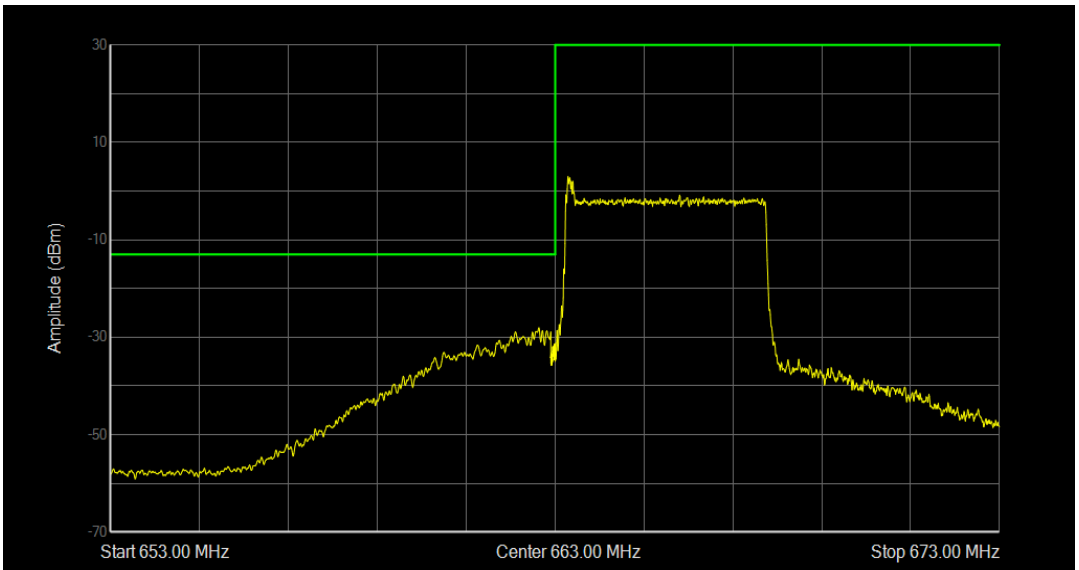
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	698	698.1	30	698.0152	-57.67	-13
3	698.1	723	100	707.7861	-47.35	-13

n71 SCS=15kHz CP_QPSK BW=20MHz Channel=137600 RB=1@105



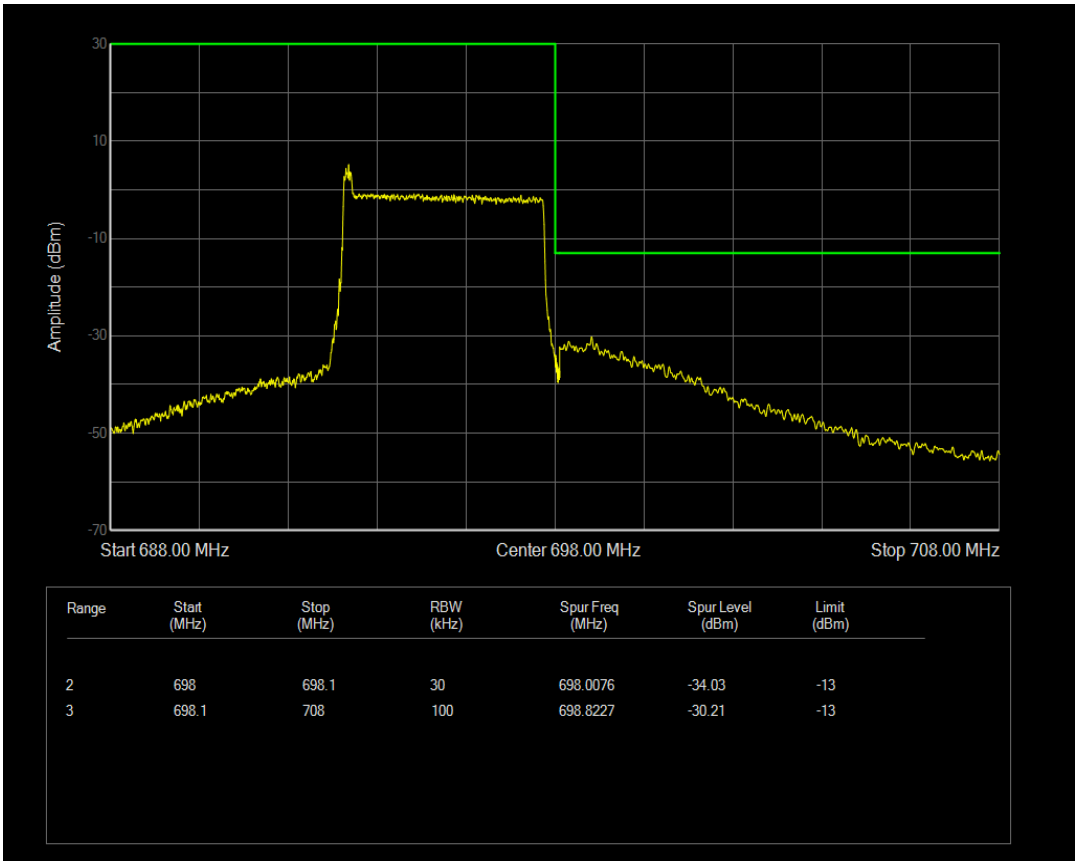
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	698	698.1	30	698.0046	-35.71	-13
3	698.1	723	100	698.1996	-39.25	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=133100 RB=25@0



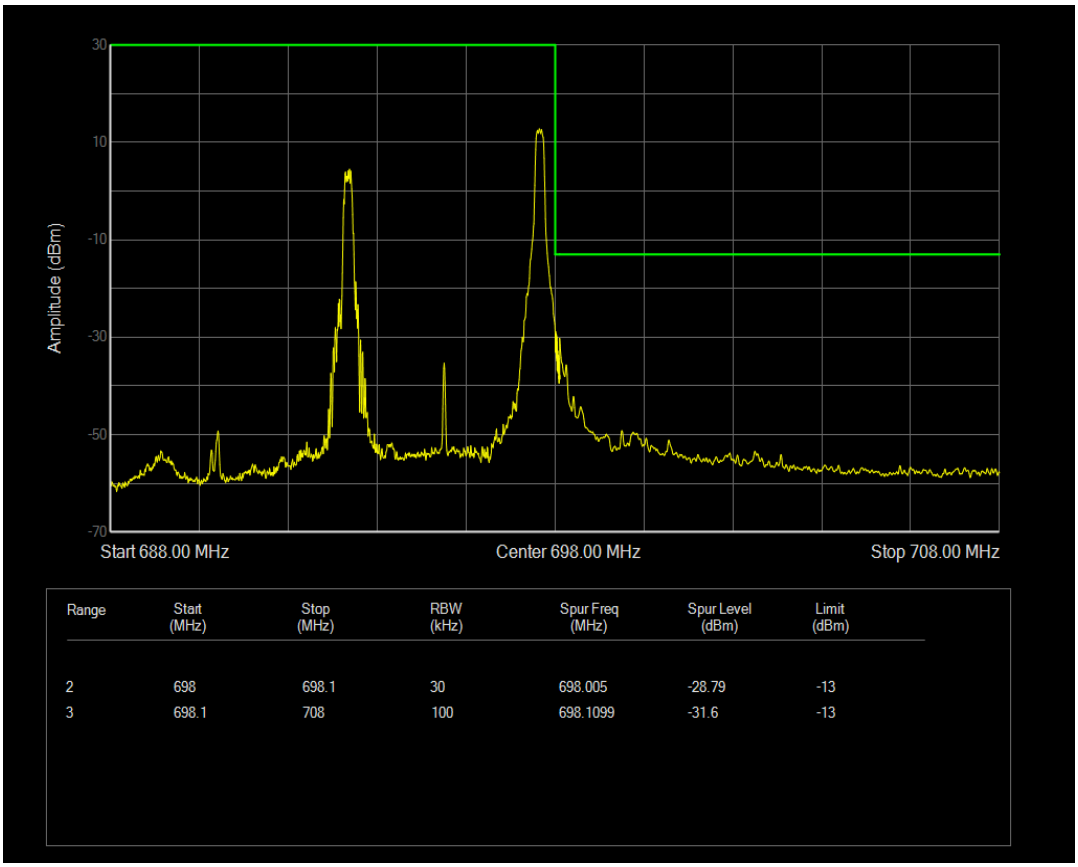
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	653	662.9	100	662.6327	-28.07	-13
2	662.9	663	30	662.9965	-31.33	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=139100 RB=25@0



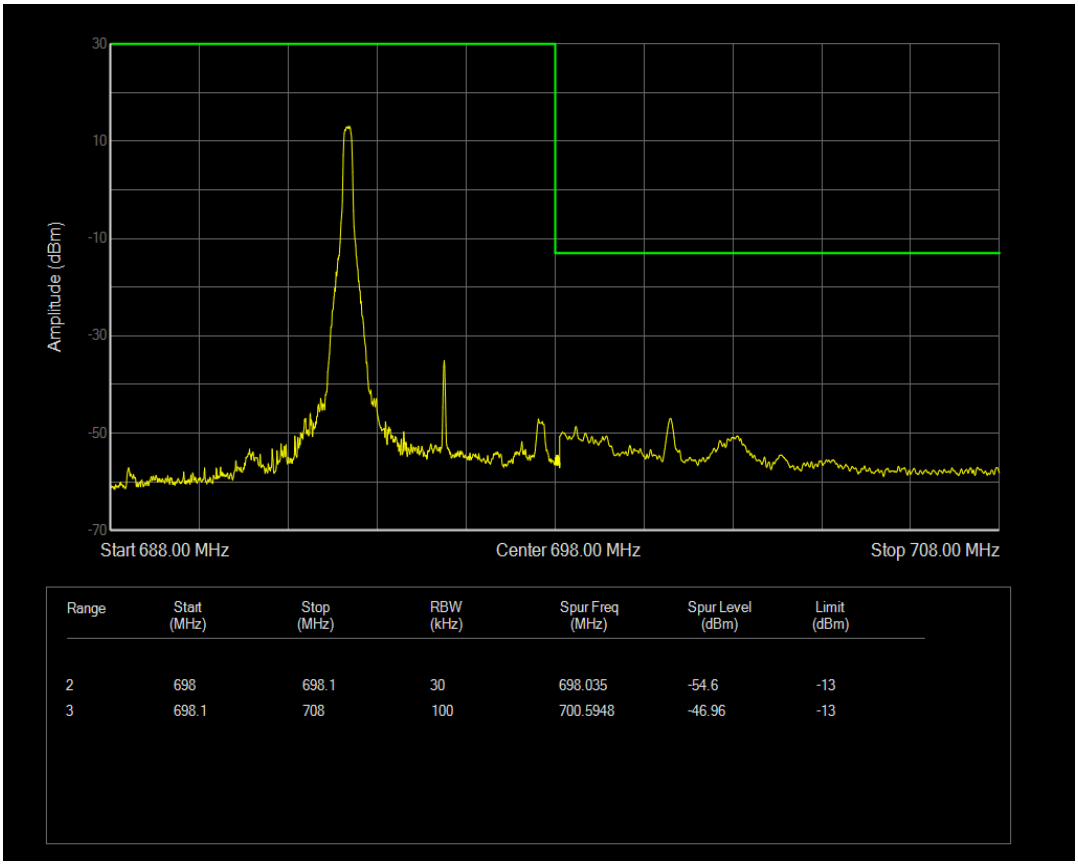
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	698	698.1	30	698.0076	-34.03	-13
3	698.1	708	100	698.8227	-30.21	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=139100 RB=1@24



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	698	698.1	30	698.005	-28.79	-13
3	698.1	708	100	698.1099	-31.6	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=139100 RB=1@0

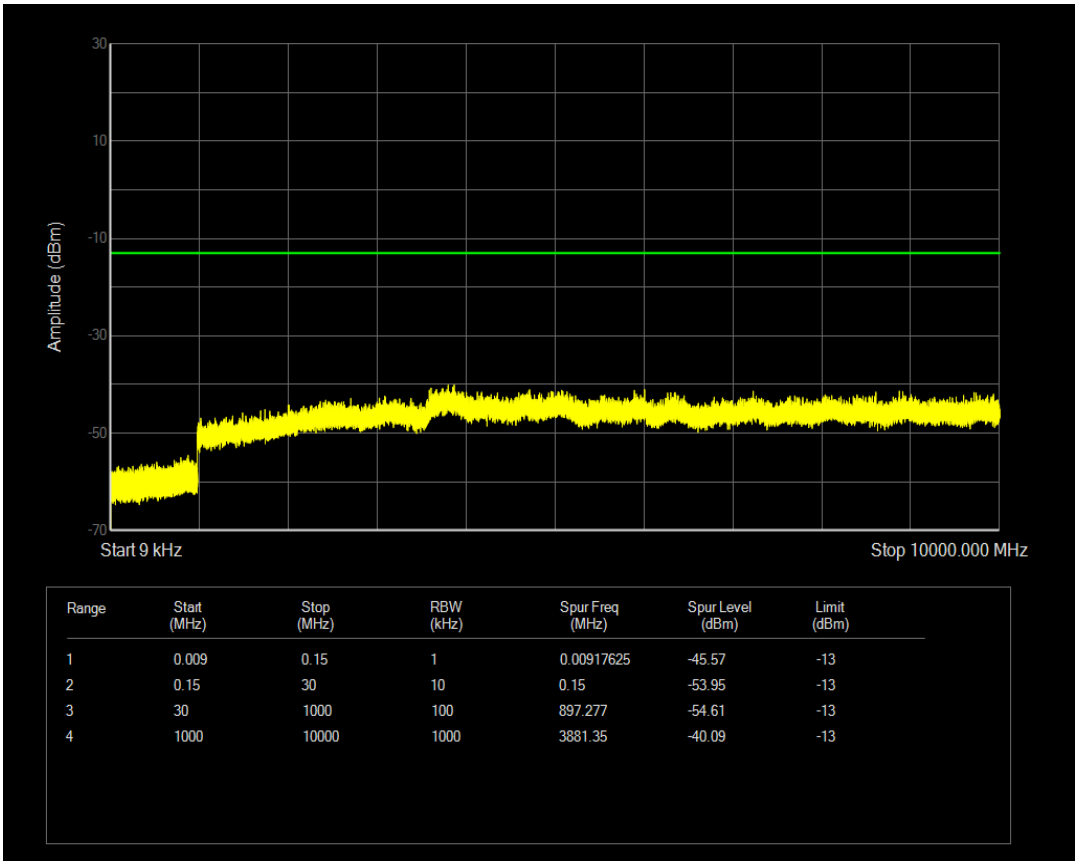


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	698	698.1	30	698.035	-54.6	-13
3	698.1	708	100	700.5948	-46.96	-13

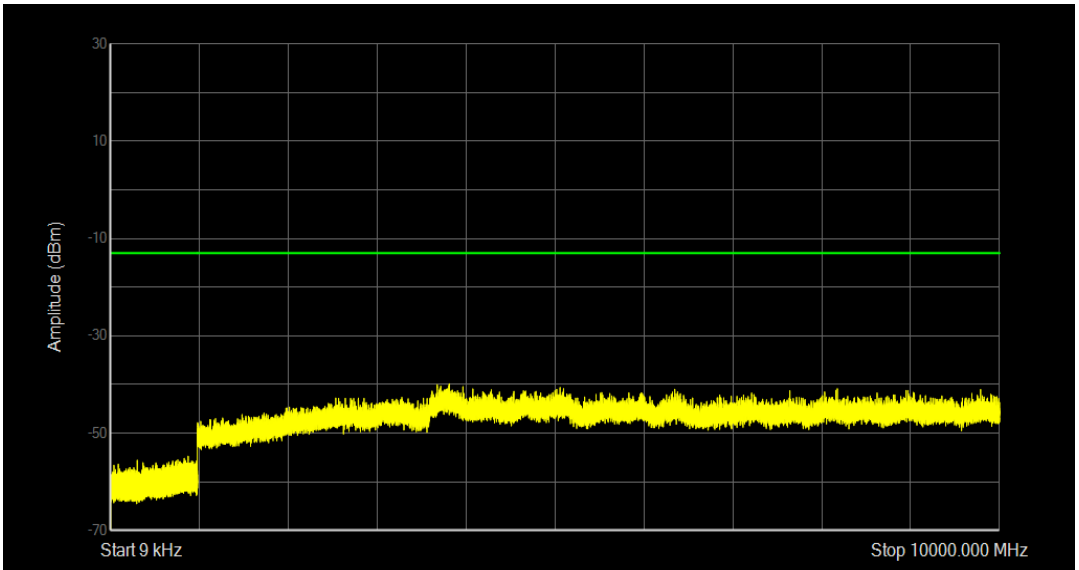
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n71	15	5	133100	25@0	CP_QPSK	4714.98	-39.99	-13	PASS
n71	15	5	133100	1@0	CP_QPSK	3873.48	-39.61	-13	PASS
n71	15	5	133100	1@24	CP_QPSK	3838.38	-39.95	-13	PASS
n71	15	5	139100	25@0	CP_QPSK	3782.58	-39.75	-13	PASS
n71	15	5	139100	1@0	CP_QPSK	3940.30	-39.80	-13	PASS
n71	15	5	139100	1@24	CP_QPSK	3824.65	-39.88	-13	PASS
n71	15	15	134100	79@0	CP_QPSK	3811.38	-39.15	-13	PASS
n71	15	15	134100	1@0	CP_QPSK	3881.35	-40.09	-13	PASS
n71	15	15	134100	1@78	CP_QPSK	3826.90	-39.85	-13	PASS
n71	15	15	138100	79@0	CP_QPSK	3875.95	-40.65	-13	PASS
n71	15	15	138100	1@0	CP_QPSK	3908.80	-39.40	-13	PASS
n71	15	15	138100	1@78	CP_QPSK	3803.95	-39.56	-13	PASS
n71	15	20	134600	106@0	CP_QPSK	3736.00	-40.08	-13	PASS
n71	15	20	134600	1@0	CP_QPSK	3882.93	-39.37	-13	PASS
n71	15	20	134600	1@105	CP_QPSK	3868.53	-40.41	-13	PASS
n71	15	20	137600	106@0	CP_QPSK	3890.58	-39.84	-13	PASS
n71	15	20	137600	1@0	CP_QPSK	5090.73	-39.40	-13	PASS
n71	15	20	137600	1@105	CP_QPSK	5068.45	-40.42	-13	PASS

n71 SCS=15kHz CP_QPSK BW=15MHz Channel=134100 RB=1@0

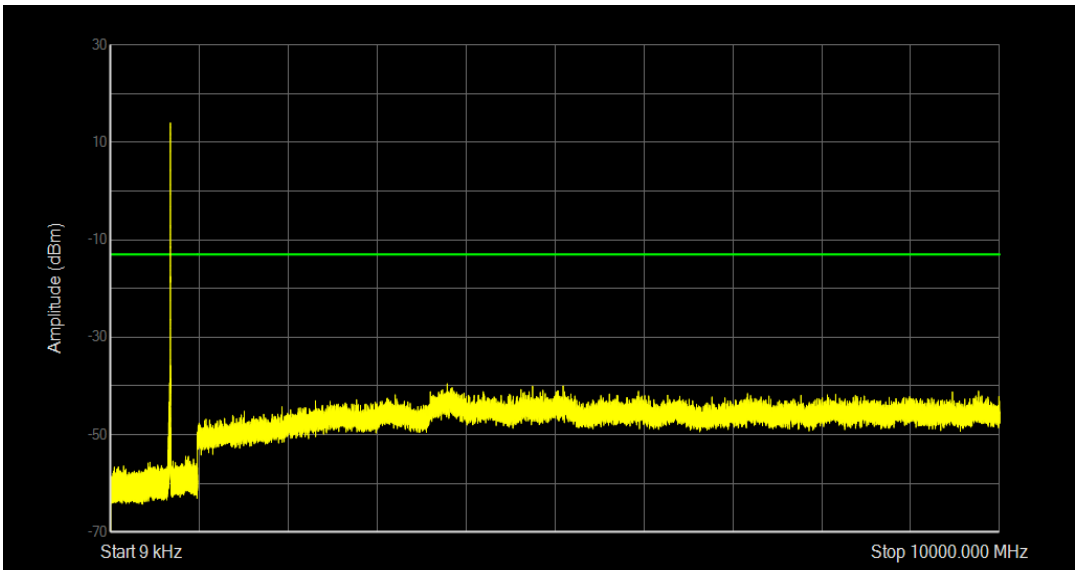


n71 SCS=15kHz CP_QPSK BW=15MHz Channel=134100 RB=1@78



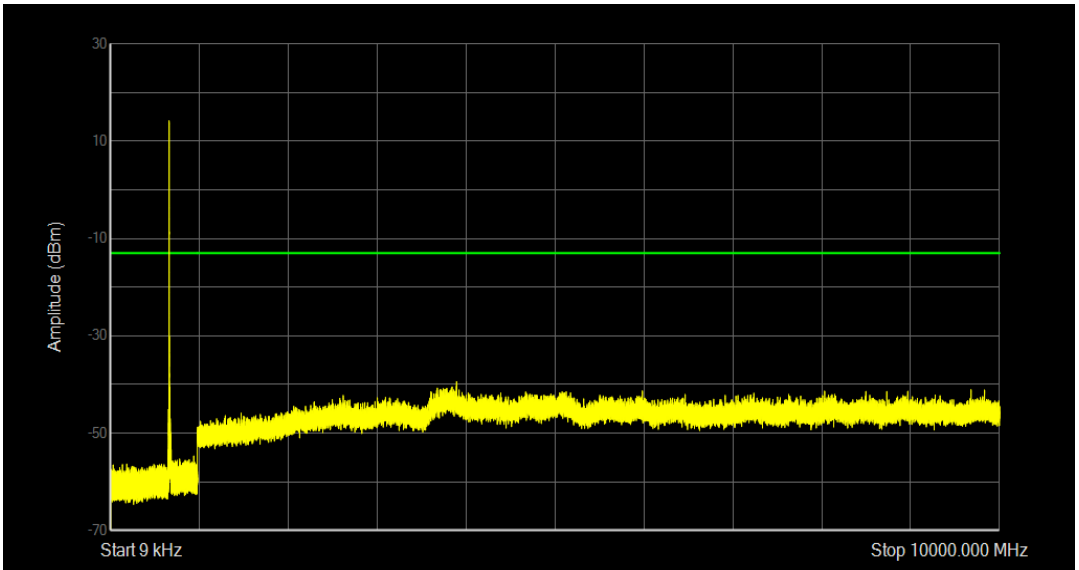
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.014911425	-46.85	-13
2	0.15	30	10	0.15820875	-57.52	-13
3	30	1000	100	897.18	-54.74	-13
4	1000	10000	1000	3826.9	-39.85	-13

n71 SCS=15kHz CP_QPSK BW=15MHz Channel=138100 RB=1@78



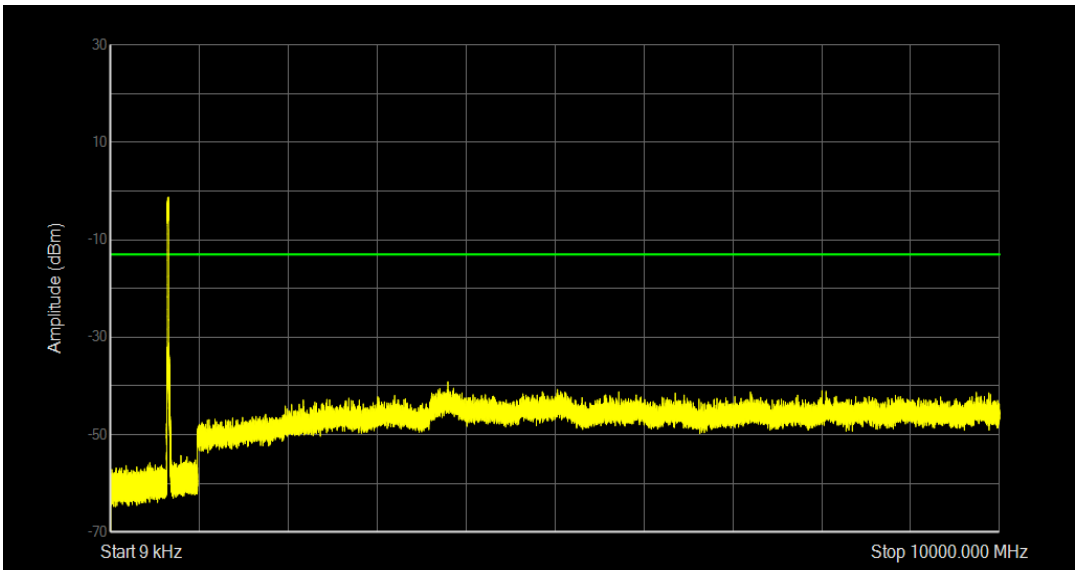
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01055805	-43.84	-13
2	0.15	30	10	0.15	-56	-13
3	30	1000	100	868.58925	-54.45	-13
4	1000	10000	1000	3803.95	-39.56	-13

n71 SCS=15kHz CP_QPSK BW=15MHz Channel=138100 RB=1@0



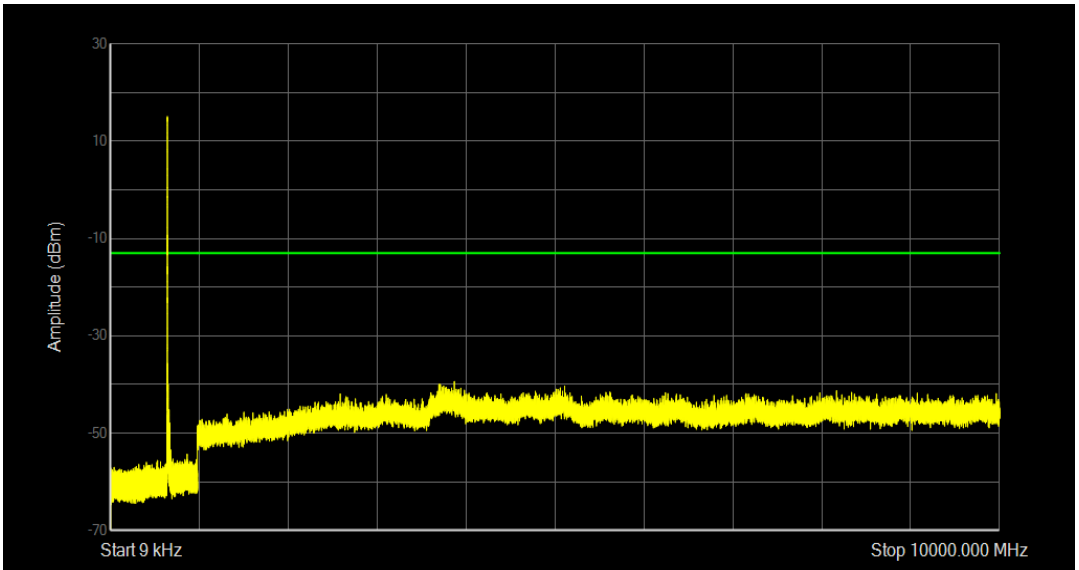
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013557825	-45.25	-13
2	0.15	30	10	0.152985	-56.07	-13
3	30	1000	100	959.842	-54.7	-13
4	1000	10000	1000	3908.8	-39.4	-13

n71 SCS=15kHz CP_QPSK BW=15MHz Channel=134100 RB=79@0



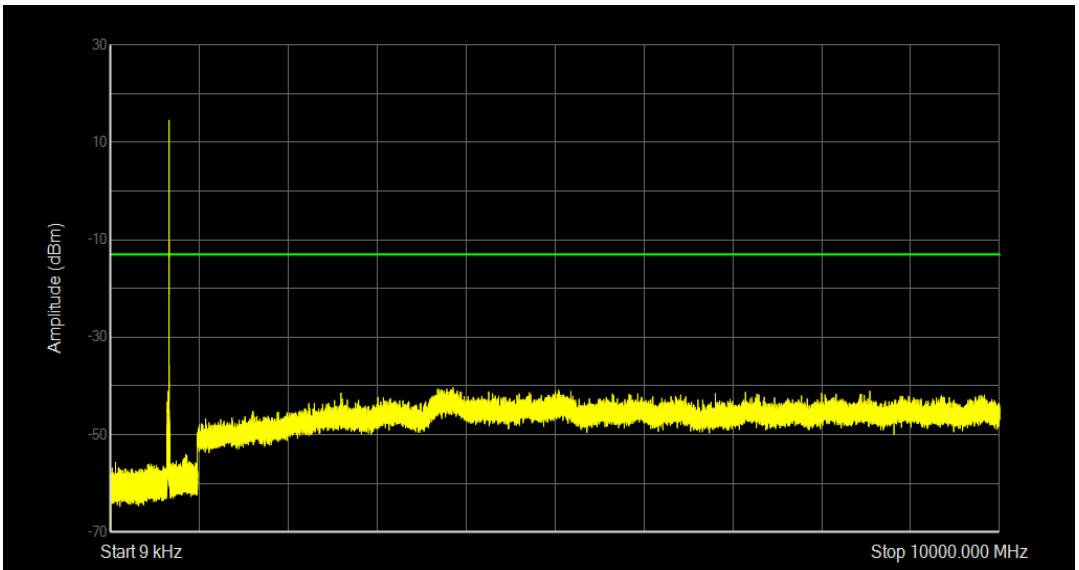
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009715575	-44.83	-13
2	0.15	30	10	0.152985	-57.37	-13
3	30	1000	100	816.282	-54.3	-13
4	1000	10000	1000	3811.375	-39.15	-13

n71 SCS=15kHz CP_QPSK BW=20MHz Channel=134600 RB=1@0



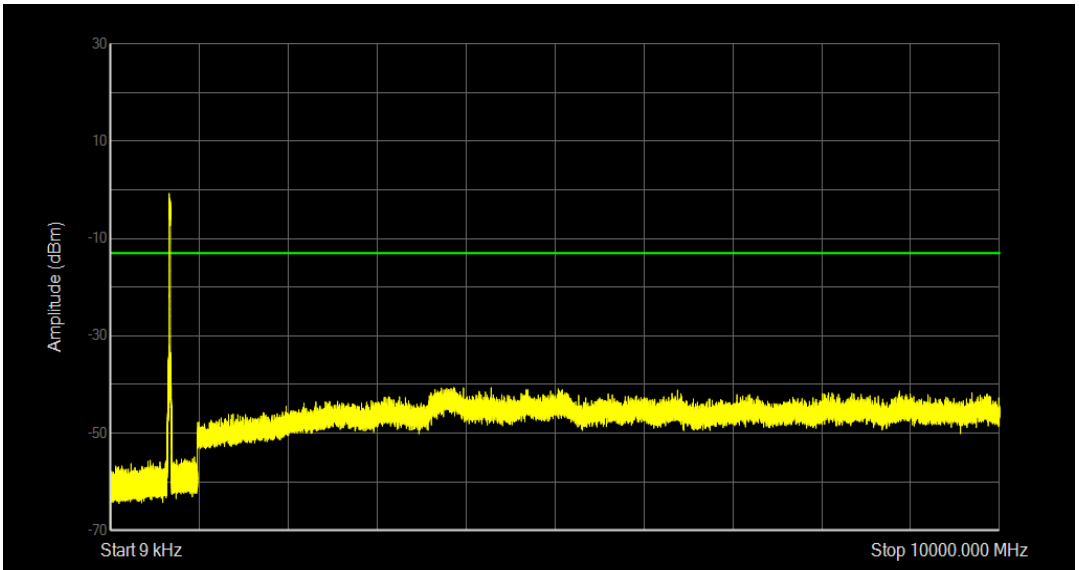
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011203125	-46.5	-13
2	0.15	30	10	0.16119375	-57.17	-13
3	30	1000	100	885.51575	-54.31	-13
4	1000	10000	1000	3882.925	-39.37	-13

n71 SCS=15kHz CP_QPSK BW=20MHz Channel=134600 RB=1@105



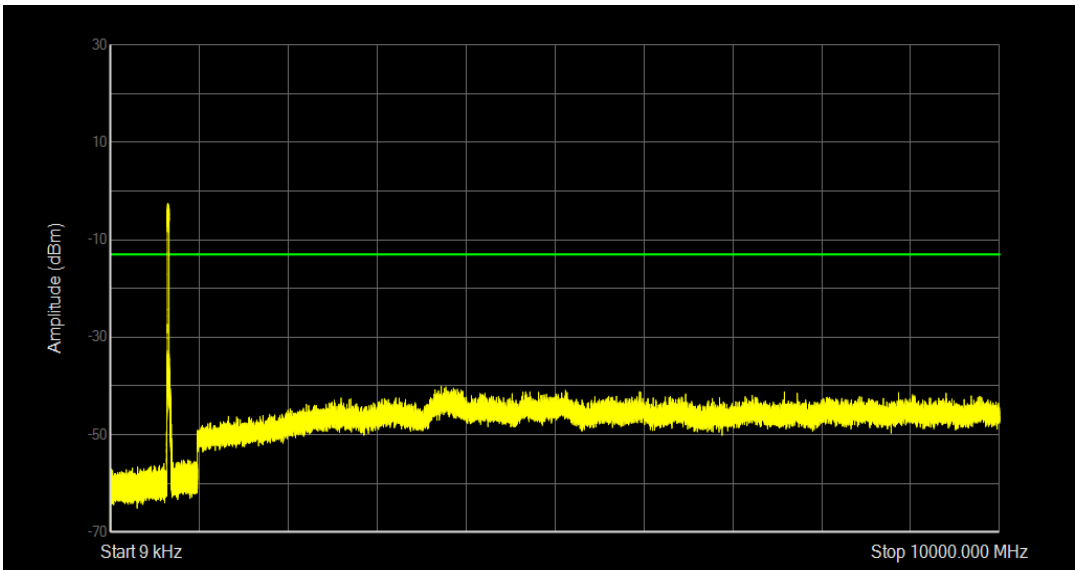
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012690675	-45.97	-13
2	0.15	30	10	0.152985	-56.4	-13
3	30	1000	100	870.3595	-54.03	-13
4	1000	10000	1000	3868.525	-40.41	-13

n71 SCS=15kHz CP_QPSK BW=15MHz Channel=138100 RB=79@0



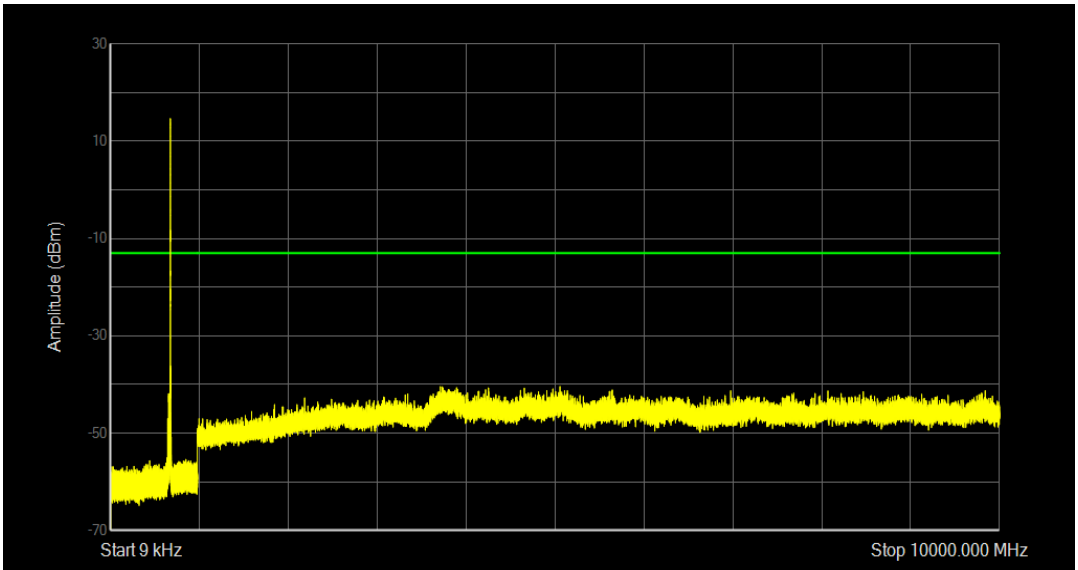
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011668425	-45.46	-13
2	0.15	30	10	0.15671625	-55.3	-13
3	30	1000	100	968.1355	-54.92	-13
4	1000	10000	1000	3875.95	-40.65	-13

n71 SCS=15kHz CP_QPSK BW=20MHz Channel=134600 RB=106@0



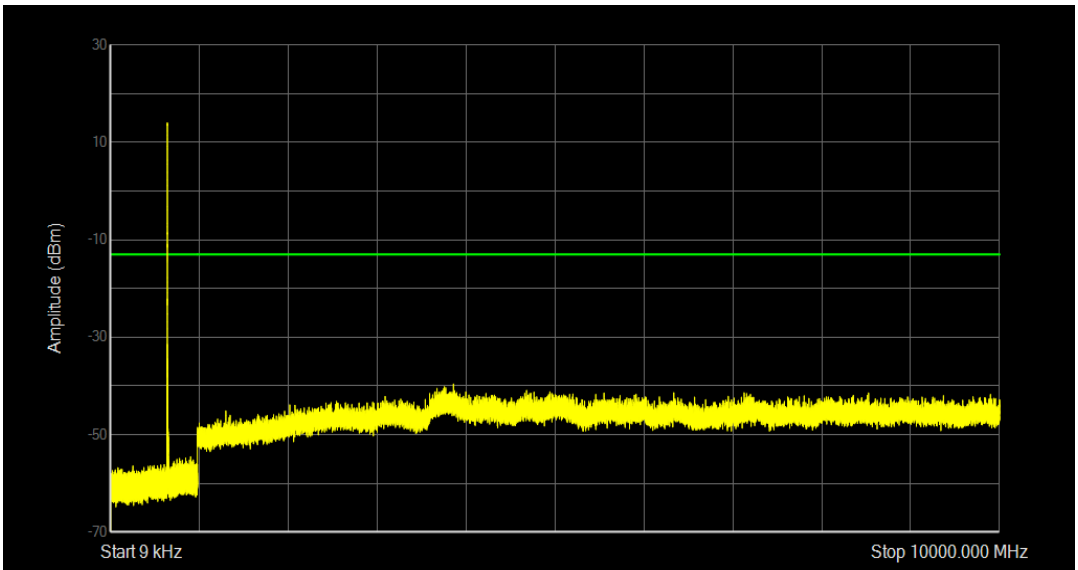
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012070275	-46.04	-13
2	0.15	30	10	0.15373125	-54.8	-13
3	30	1000	100	894.6095	-55.19	-13
4	1000	10000	1000	3736	-40.08	-13

n71 SCS=15kHz CP_QPSK BW=20MHz Channel=137600 RB=1@105



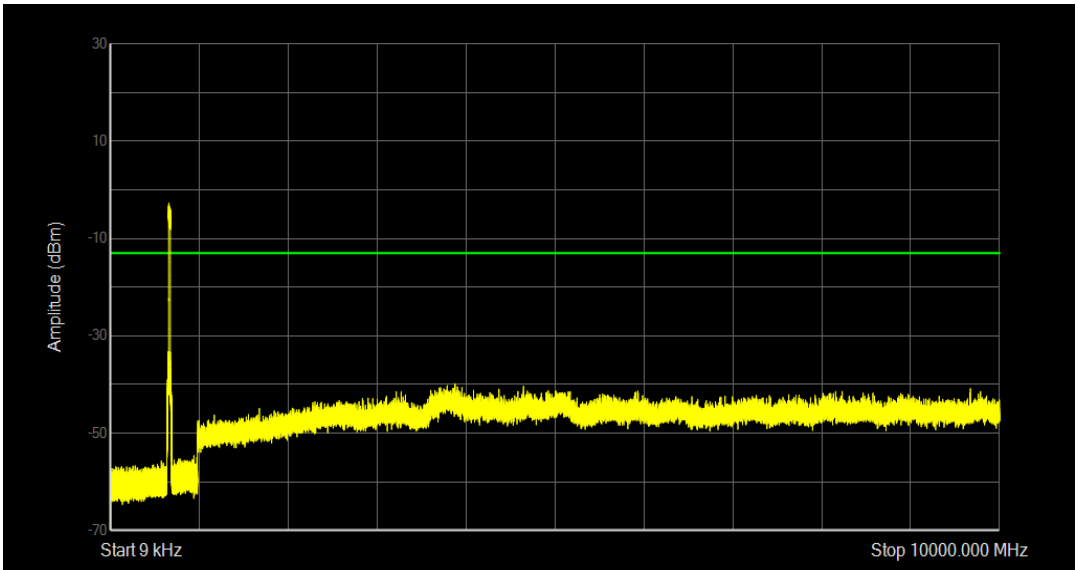
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013571925	-46.36	-13
2	0.15	30	10	0.15	-56.62	-13
3	30	1000	100	871.88725	-55.4	-13
4	1000	10000	1000	5068.45	-40.42	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=133100 RB=1@0



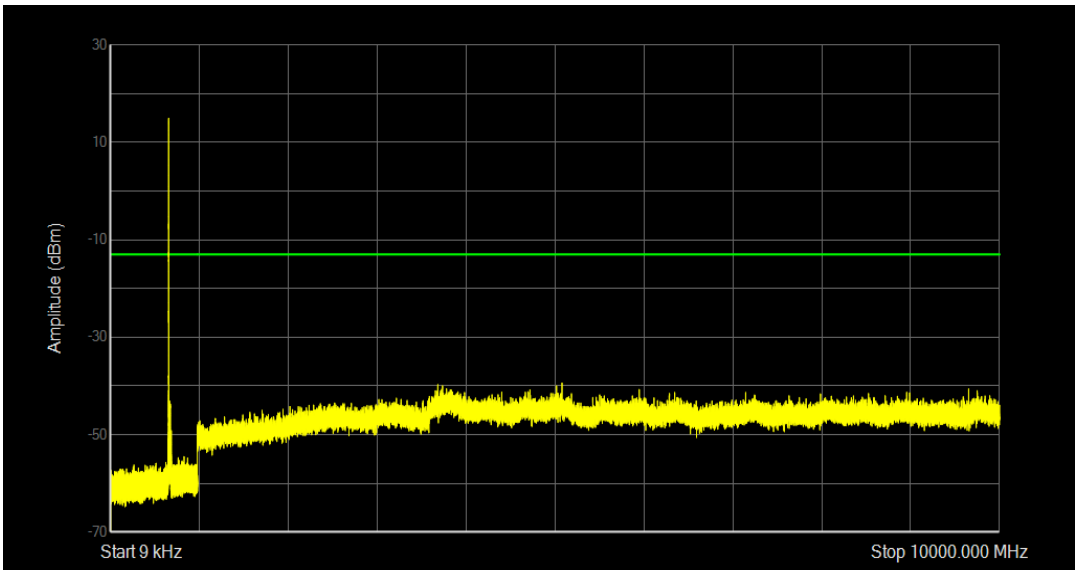
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01010685	-47.18	-13
2	0.15	30	10	0.15597	-56.54	-13
3	30	1000	100	924.728	-54.52	-13
4	1000	10000	1000	3873.475	-39.61	-13

n71 SCS=15kHz CP_QPSK BW=20MHz Channel=137600 RB=106@0



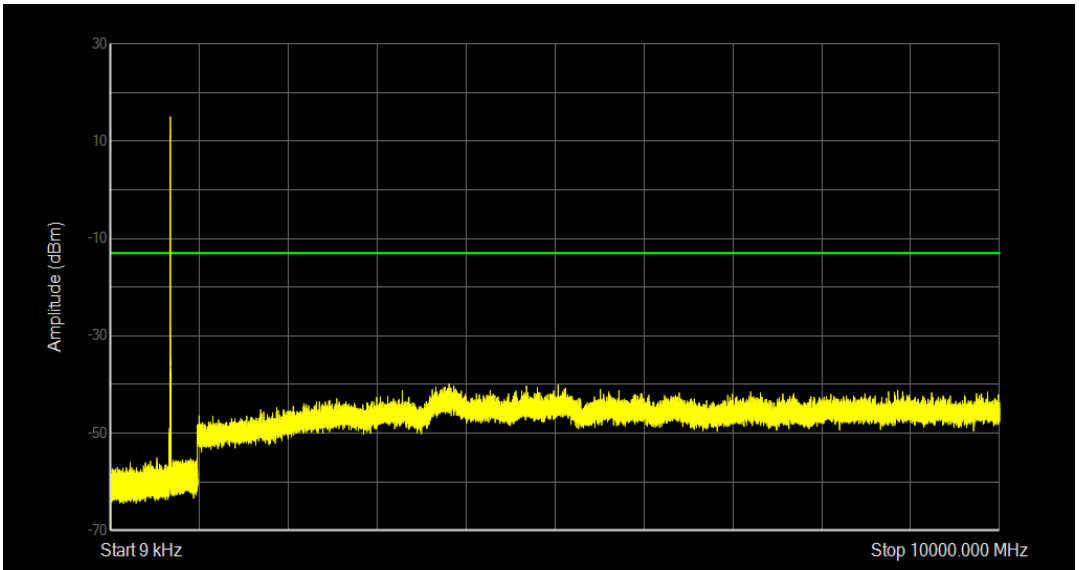
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009271425	-46.64	-13
2	0.15	30	10	0.17164125	-57.65	-13
3	30	1000	100	961.297	-54.65	-13
4	1000	10000	1000	3890.575	-39.84	-13

n71 SCS=15kHz CP_QPSK BW=20MHz Channel=137600 RB=1@0



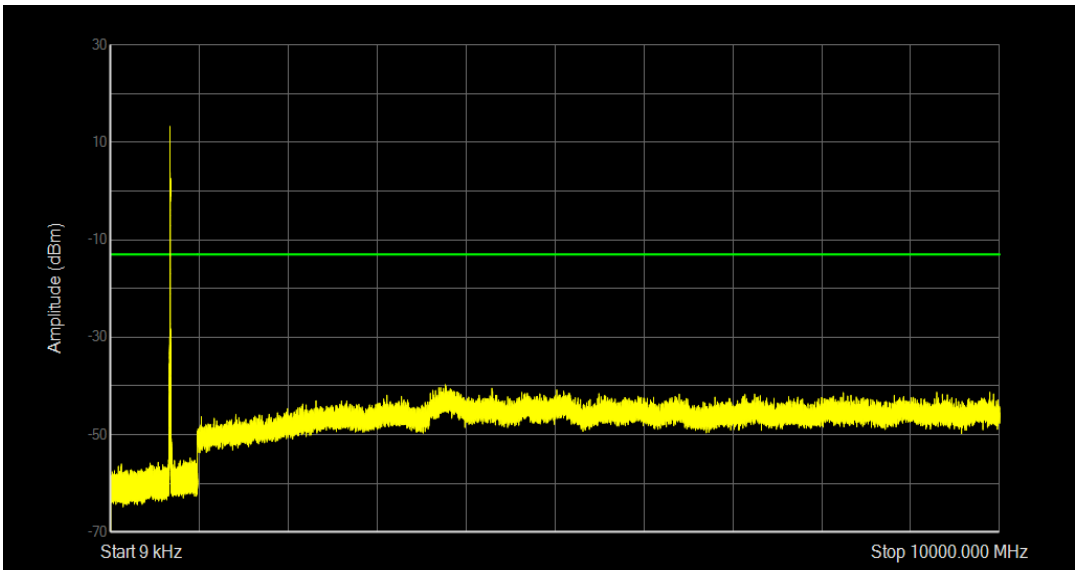
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01116435	-46.86	-13
2	0.15	30	10	0.15	-56.58	-13
3	30	1000	100	851.0565	-54.52	-13
4	1000	10000	1000	5090.725	-39.4	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=139100 RB=1@24



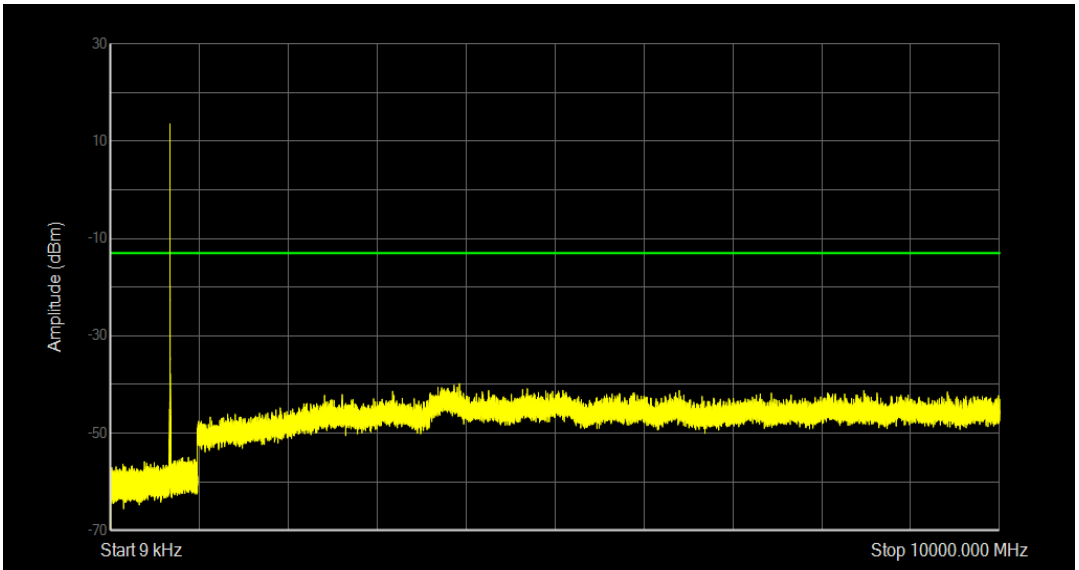
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.017519925	-46.69	-13
2	0.15	30	10	0.17014875	-58.14	-13
3	30	1000	100	545.87025	-55.14	-13
4	1000	10000	1000	3824.65	-39.88	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=139100 RB=25@0



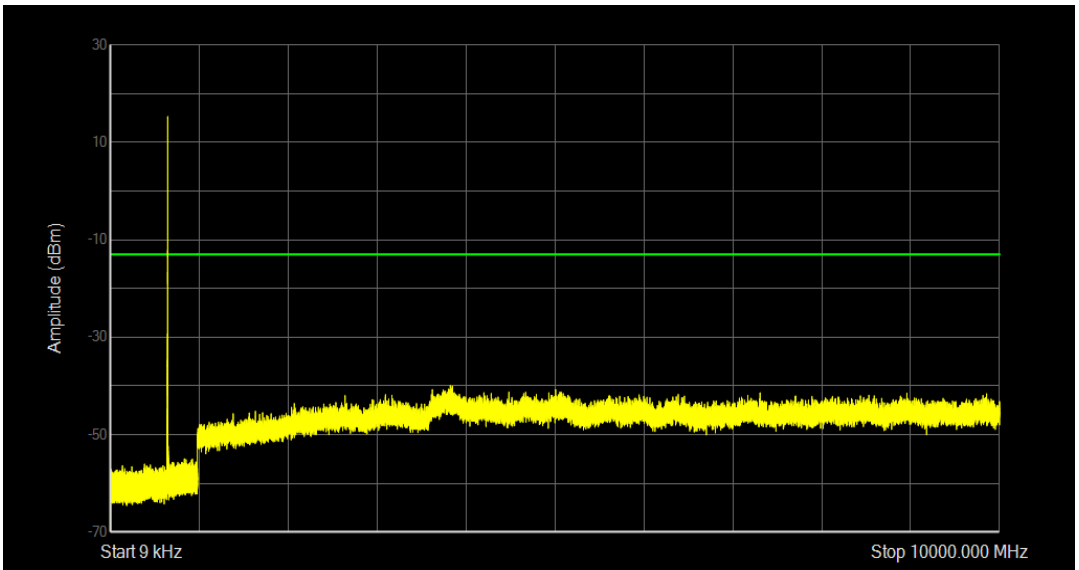
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011731875	-46.14	-13
2	0.15	30	10	0.16791	-56.2	-13
3	30	1000	100	919.32025	-54.82	-13
4	1000	10000	1000	3782.575	-39.75	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=139100 RB=1@0



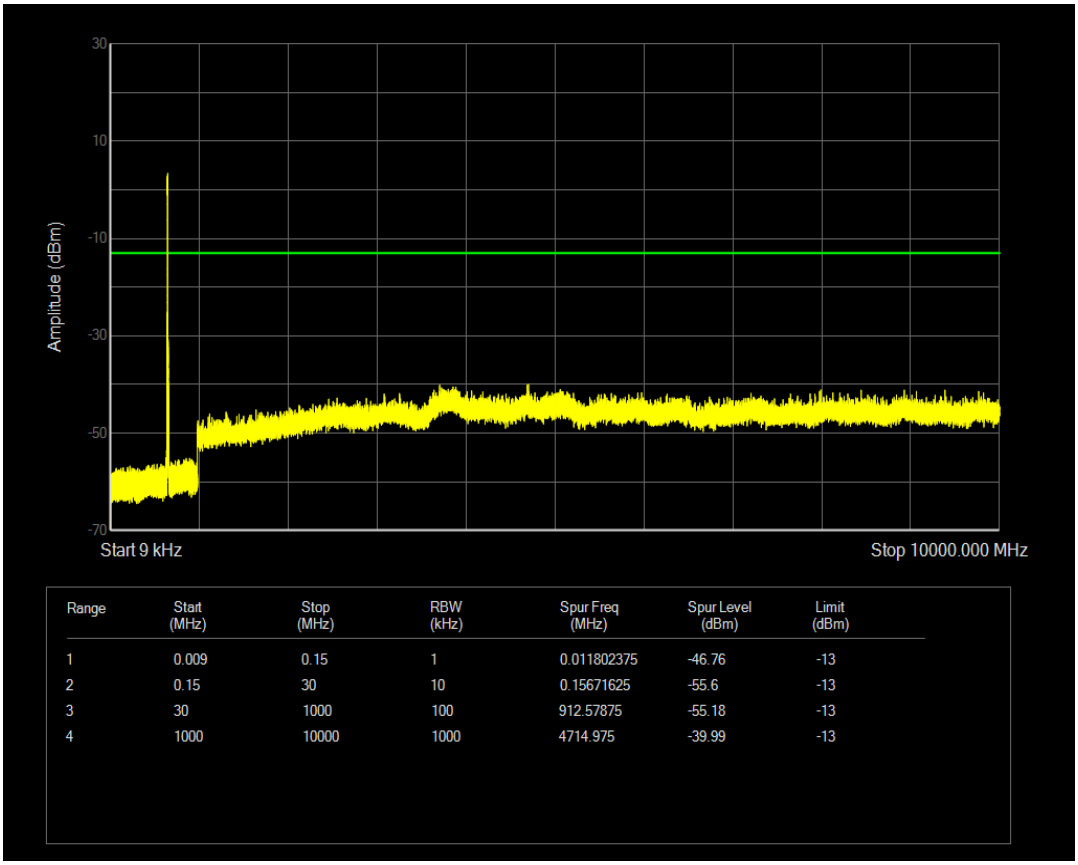
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0135261	-45.77	-13
2	0.15	30	10	0.16716375	-56.63	-13
3	30	1000	100	900.575	-54.96	-13
4	1000	10000	1000	3940.3	-39.8	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=133100 RB=1@24



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010692	-47.26	-13
2	0.15	30	10	0.158955	-56.17	-13
3	30	1000	100	854.5485	-54.96	-13
4	1000	10000	1000	3838.375	-39.95	-13

n71 SCS=15kHz CP_QPSK BW=5MHz Channel=133100 RB=25@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011802375	-46.76	-13
2	0.15	30	10	0.15671625	-55.6	-13
3	30	1000	100	912.57875	-55.18	-13
4	1000	10000	1000	4714.975	-39.99	-13