



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



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



n41 SCS=30kHz DFT_BPSK BW=50MHz Channel=518598 RB=128@0



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



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



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



n41 SCS=30kHz DFT_QAM16 BW=100MHz Channel=518598 RB=270@0



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



n41 SCS=30kHz DFT_QAM16 BW=40MHz Channel=518598 RB=100@0



n41 SCS=30kHz DFT_QAM16 BW=50MHz Channel=518598 RB=128@0



n41 SCS=30kHz DFT_QAM16 BW=60MHz Channel=518598 RB=162@0



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



n41 SCS=30kHz DFT_QAM256 BW=20MHz Channel=518598 RB=50@0



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



n41 SCS=30kHz DFT_QAM256 BW=50MHz Channel=518598 RB=128@0



n41 SCS=30kHz DFT_QAM256 BW=60MHz Channel=518598 RB=162@0



n41 SCS=30kHz DFT_QAM256 BW=80MHz Channel=518598 RB=216@0



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



n41 SCS=30kHz DFT_QAM64 BW=50MHz Channel=518598 RB=128@0



n41 SCS=30kHz DFT_QAM64 BW=60MHz Channel=518598 RB=162@0



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



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



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



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



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



n41 SCS=30kHz DFT_QPSK BW=50MHz Channel=518598 RB=128@0



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



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



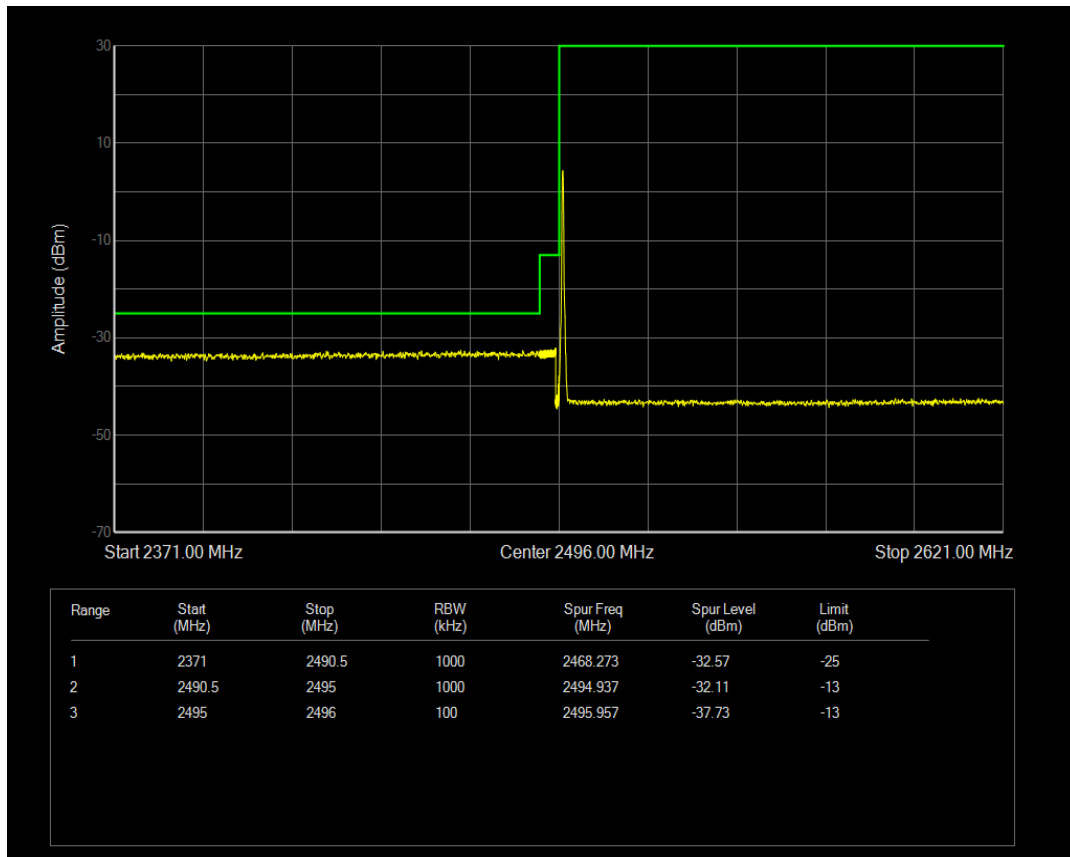
n41 SCS=30kHz DFT_QPSK BW=90MHz Channel=518598 RB=240@0



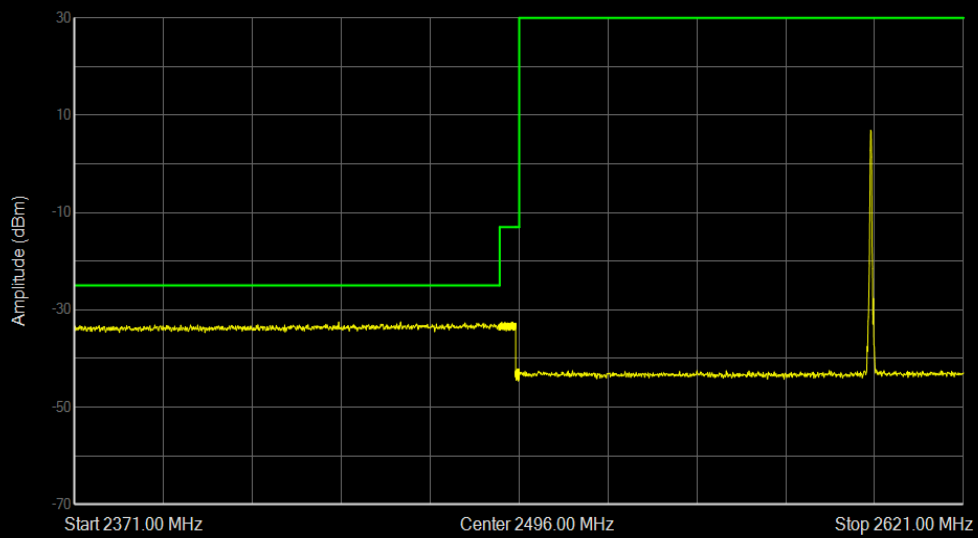
5 Band edge for EN-DC

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	2490.09	-31.86	-25	PASS
n41	30	20	501204	1@0	CP_QPSK	2477.71	-32.55	-25	PASS
n41	30	20	501204	1@50	CP_QPSK	2489.25	-32.62	-25	PASS
n41	30	20	535998	51@0	CP_QPSK	2711.08	-32.59	-25	PASS
n41	30	20	535998	1@0	CP_QPSK	2714.62	-32.52	-25	PASS
n41	30	20	535998	1@50	CP_QPSK	2710.87	-32.42	-25	PASS
n41	30	50	504204	133@0	CP_QPSK	2487.19	-32.38	-25	PASS
n41	30	50	504204	1@0	CP_QPSK	2476.36	-32.43	-25	PASS
n41	30	50	504204	1@132	CP_QPSK	2478.07	-32.56	-25	PASS
n41	30	50	532998	133@0	CP_QPSK	2751.23	-32.49	-25	PASS
n41	30	50	532998	1@0	CP_QPSK	2740.29	-32.61	-25	PASS
n41	30	50	532998	1@132	CP_QPSK	2742.36	-32.76	-25	PASS
n41	30	100	509202	273@0	CP_QPSK	2484.53	-32.21	-25	PASS
n41	30	100	509202	1@0	CP_QPSK	2468.27	-32.57	-25	PASS
n41	30	100	509202	1@272	CP_QPSK	2462.66	-32.48	-25	PASS
n41	30	100	528000	273@0	CP_QPSK	2790.55	-32.43	-25	PASS
n41	30	100	528000	1@0	CP_QPSK	2794.53	-32.69	-25	PASS
n41	30	100	528000	1@272	CP_QPSK	2790.58	-32.62	-25	PASS

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

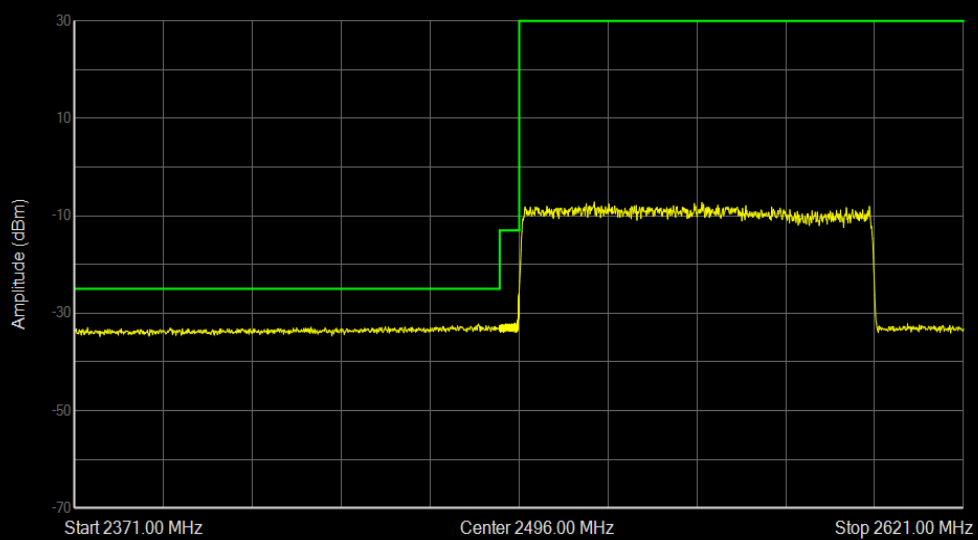


n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=1@272

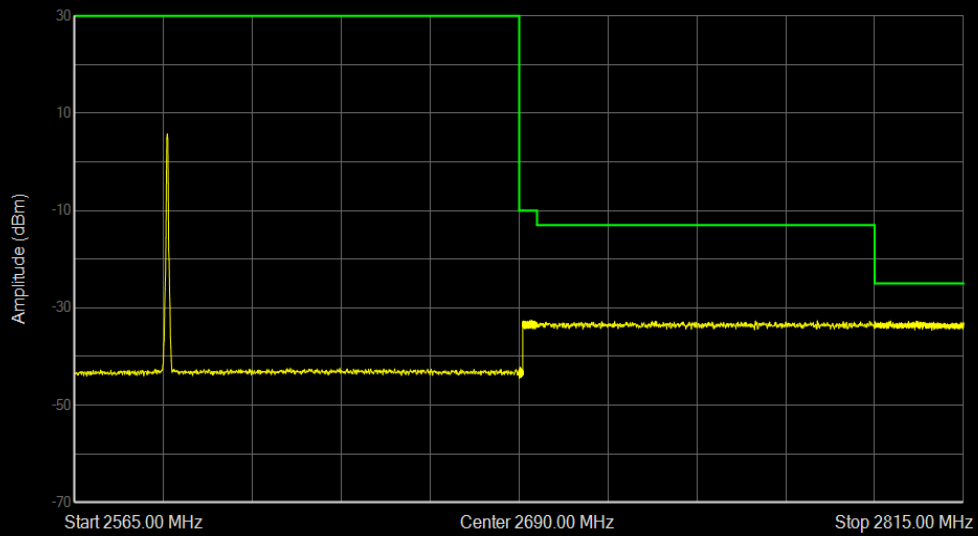


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2371	2490.5	1000	2462.6565	-32.48	-25
2	2490.5	2495	1000	2493.8615	-32.53	-13
3	2495	2496	100	2495.545	-42.14	-13

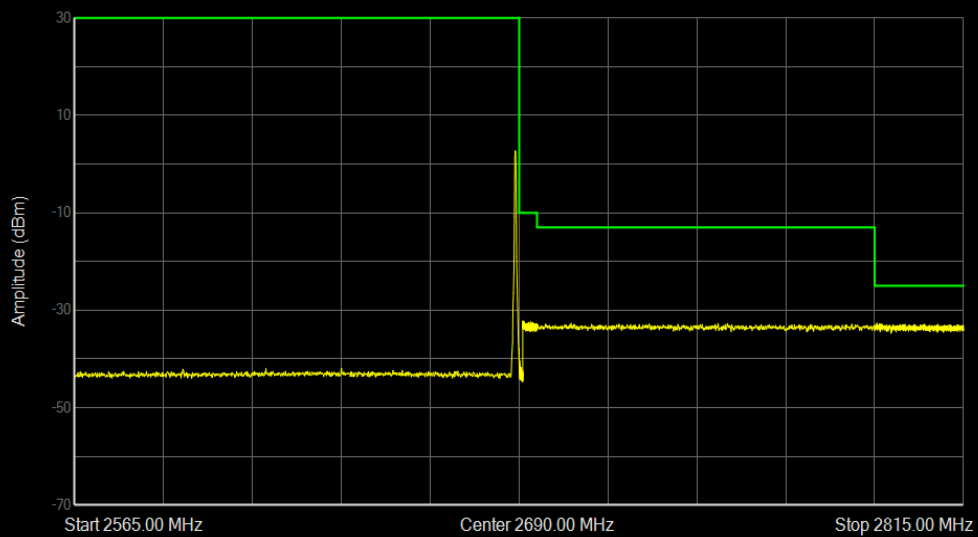
n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=273@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2371	2490.5	1000	2484.525	-32.21	-25
2	2490.5	2495	1000	2494.7705	-32.02	-13
3	2495	2496	1000	2495.938	-25.98	-13

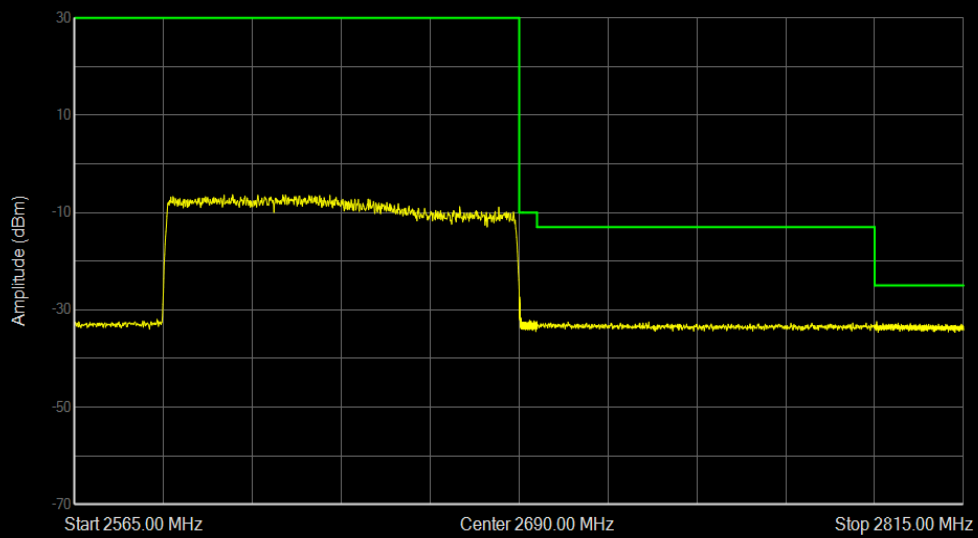
n41 SCS=30kHz CP_QPSK BW=100MHz Channel=528000 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.262	-42.24	-10
3	2691	2695	1000	2693.564	-32.59	-10
4	2695	2790	1000	2773.85	-32.67	-13
5	2790	2815	1000	2794.525	-32.69	-25

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

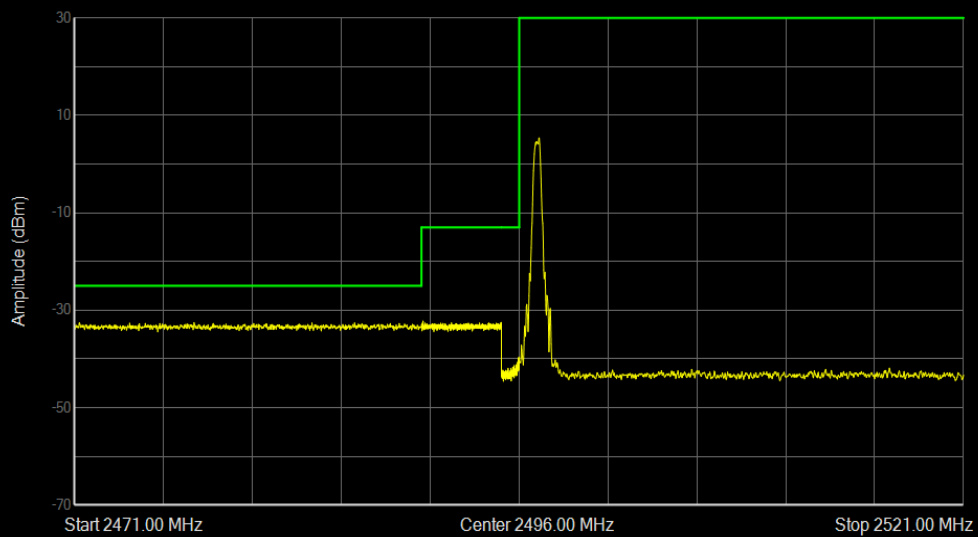
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.002	-37.82	-10
3	2691	2695	1000	2691.012	-32.17	-10
4	2695	2790	1000	2704.595	-32.69	-13
5	2790	2815	1000	2790.575	-32.62	-25

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



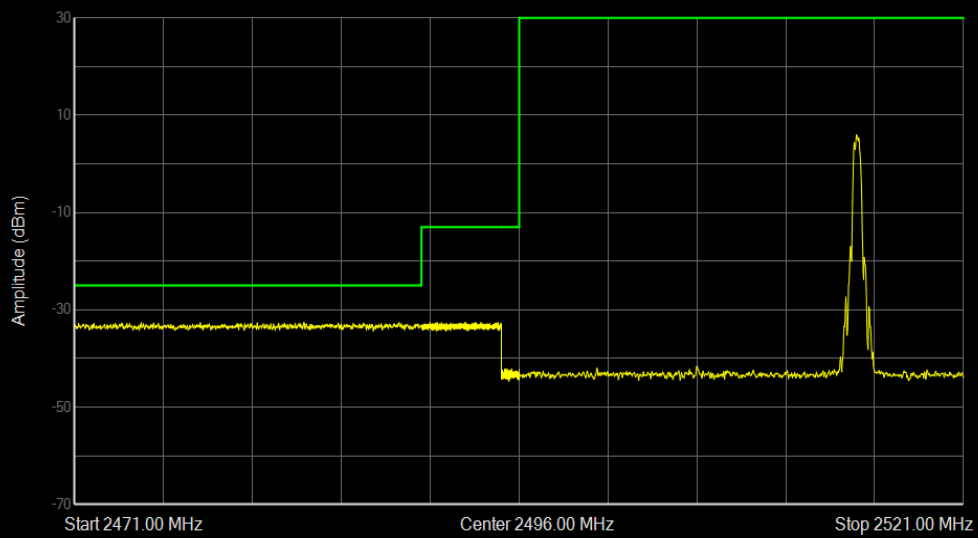
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	1000	2690.001	-26.78	-10
3	2691	2695	1000	2692.908	-32.16	-10
4	2695	2790	1000	2726.445	-32.51	-13
5	2790	2815	1000	2790.55	-32.43	-25

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



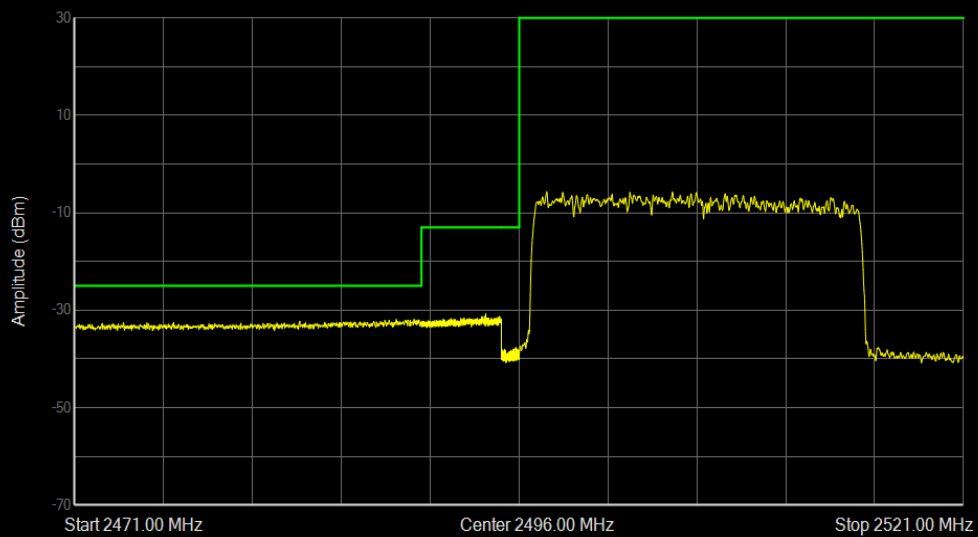
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2471	2490.5	1000	2477.708	-32.55	-25
2	2490.5	2495	1000	2490.5855	-32.22	-13
3	2495	2496	100	2495.977	-39.68	-13

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

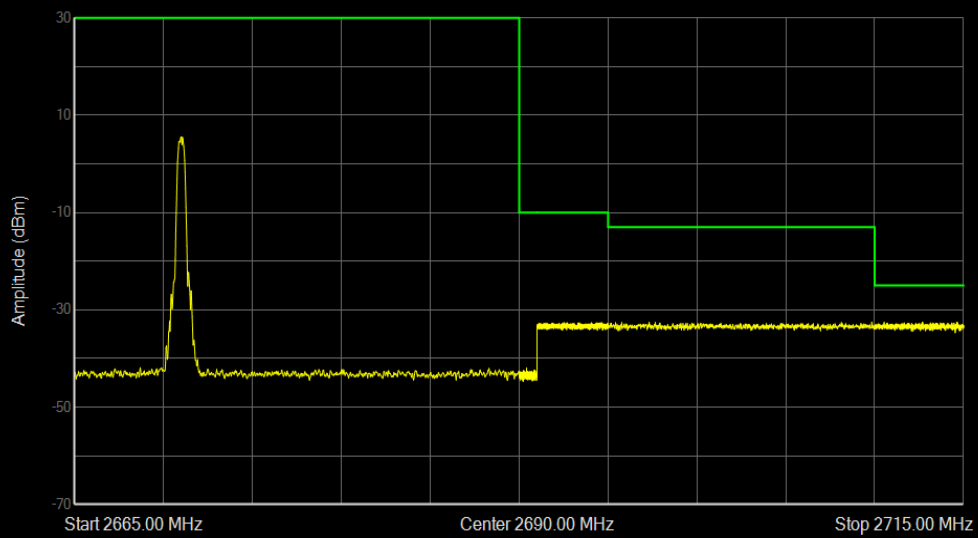


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2471	2490.5	1000	2489.252	-32.62	-25
2	2490.5	2495	1000	2492.966	-32.55	-13
3	2495	2496	100	2495.577	-42.16	-13

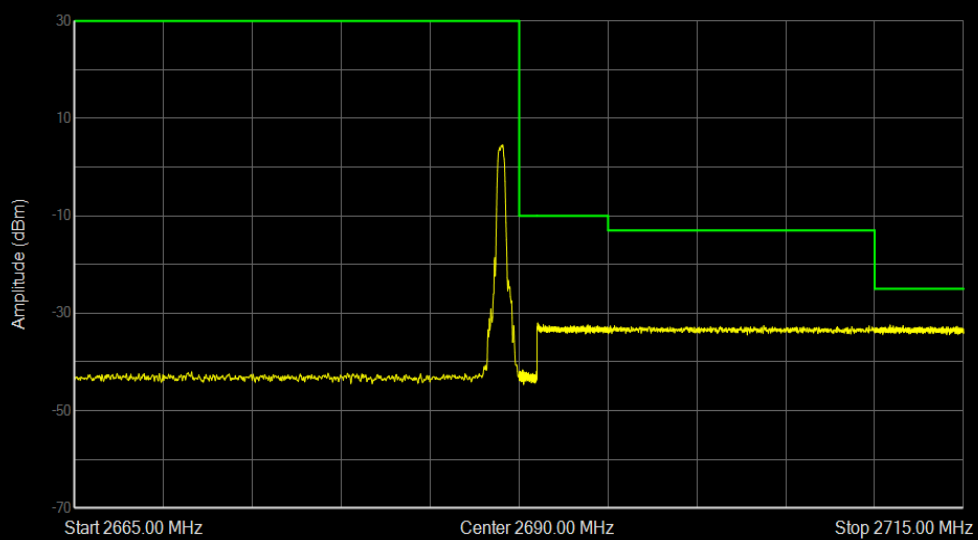
n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=51@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2471	2490.5	1000	2490.0905	-31.86	-25
2	2490.5	2495	1000	2494.118	-30.73	-13
3	2495	2496	200	2495.811	-37.69	-13

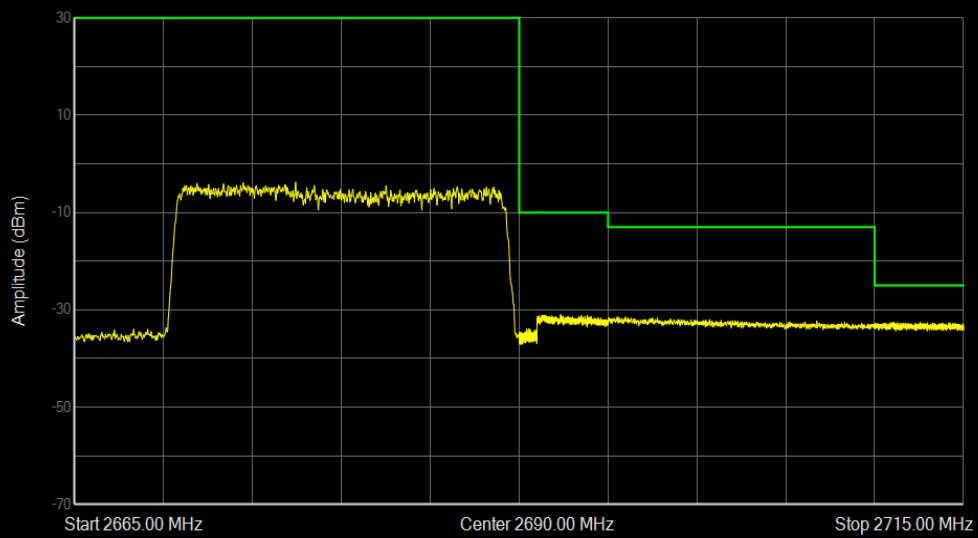
n41 SCS=30kHz CP_QPSK BW=20MHz Channel=535998 RB=1@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.411	-41.99	-10
3	2691	2695	1000	2692.516	-32.62	-10
4	2695	2710	1000	2709.835	-32.53	-13
5	2710	2715	1000	2714.615	-32.52	-25

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

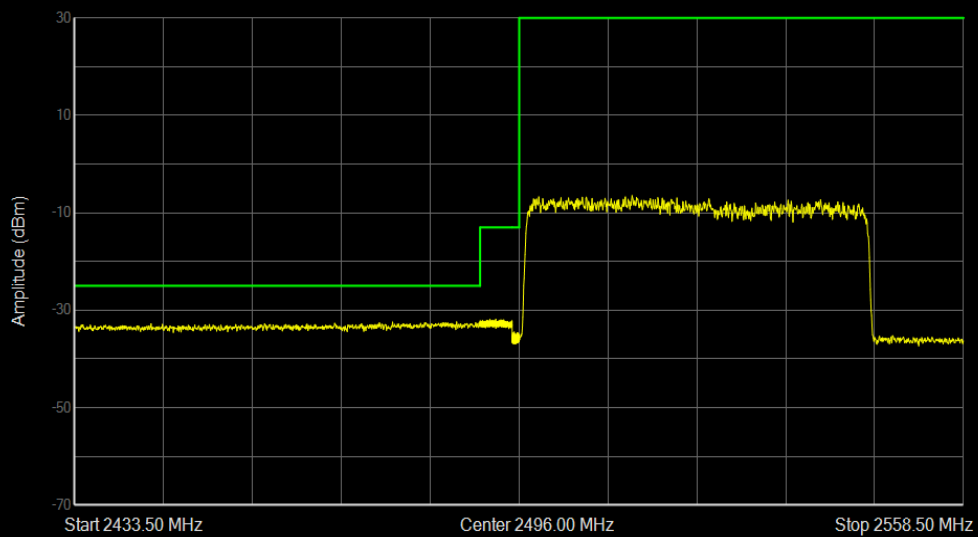
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	100	2690.197	-41.64	-10
3	2691	2695	1000	2691.04	-31.99	-10
4	2695	2710	1000	2703.76	-32.56	-13
5	2710	2715	1000	2710.87	-32.42	-25

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



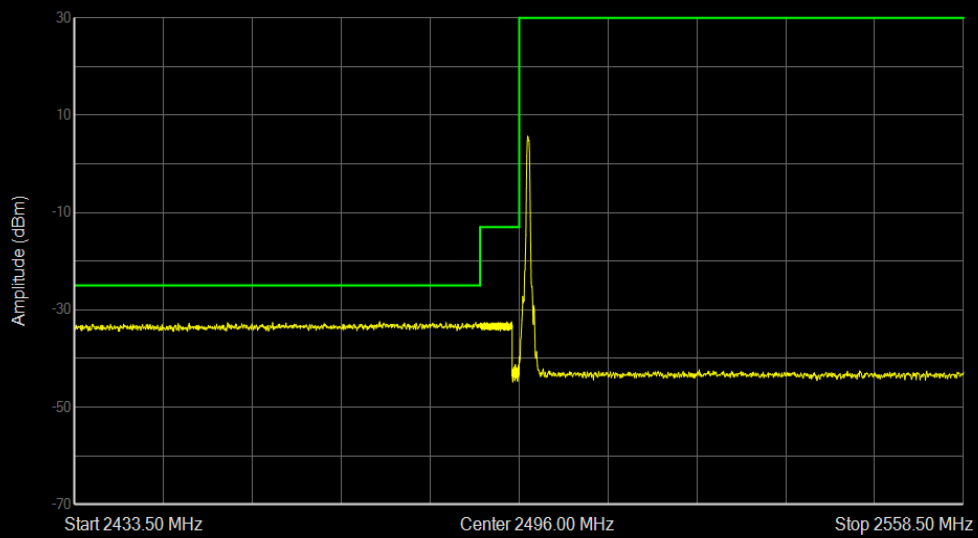
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	430	2690.543	-33.9	-10
3	2691	2695	1000	2692.328	-30.96	-10
4	2695	2710	1000	2695.51	-31.48	-13
5	2710	2715	1000	2711.08	-32.59	-25

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



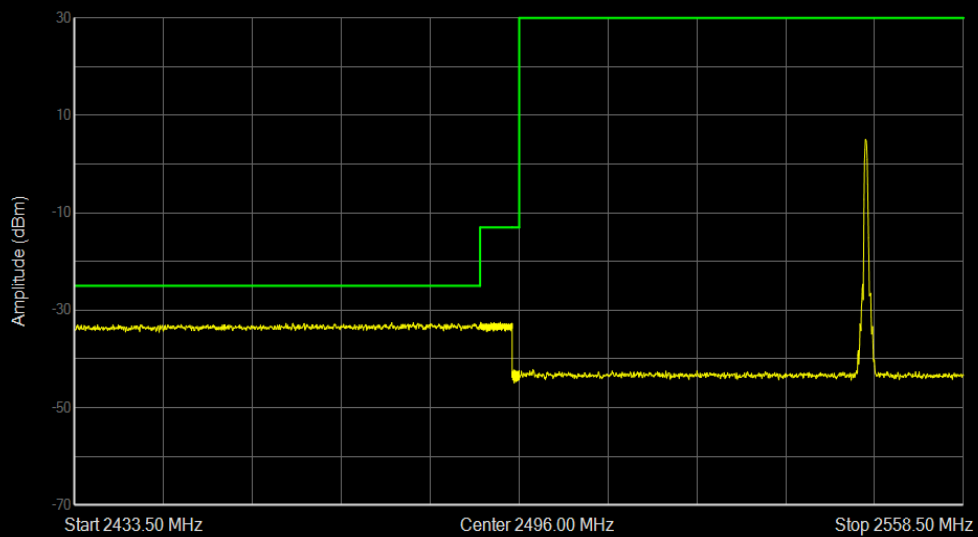
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2433.5	2490.5	1000	2487.194	-32.38	-25
2	2490.5	2495	1000	2492.7005	-31.83	-13
3	2495	2496	510	2495.306	-34.46	-13

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



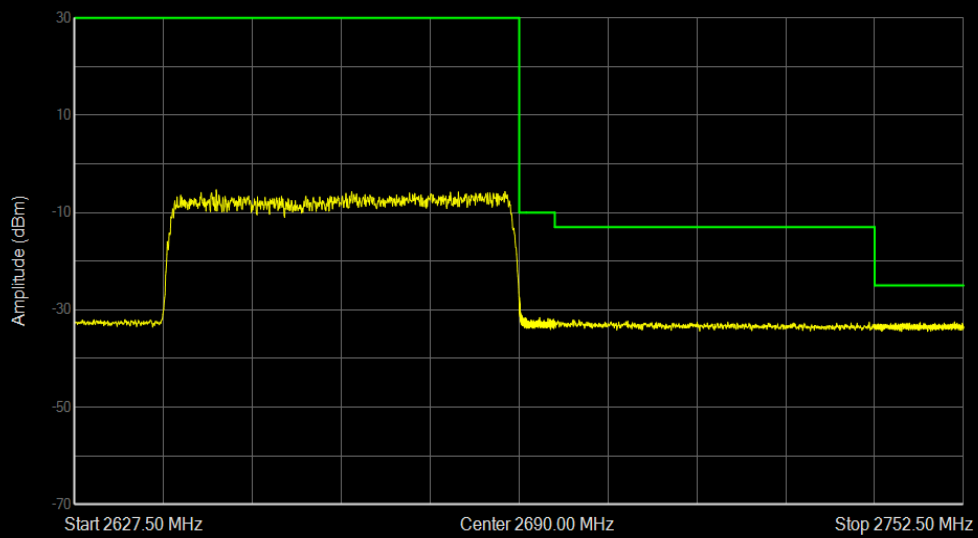
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2433.5	2490.5	1000	2476.364	-32.43	-25
2	2490.5	2495	1000	2494.91	-32.45	-13
3	2495	2496	100	2495.995	-39.68	-13

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



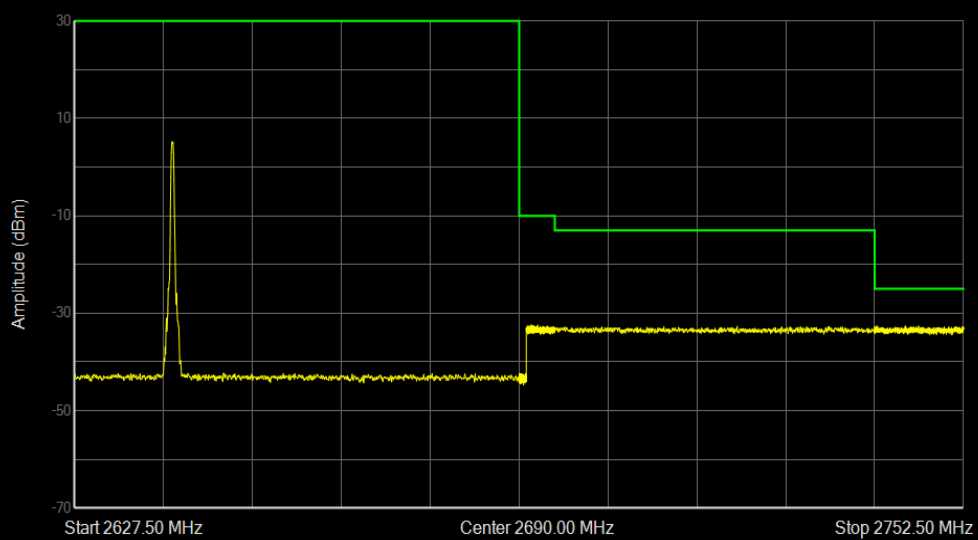
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2433.5	2490.5	1000	2478.074	-32.56	-25
2	2490.5	2495	1000	2493.326	-32.47	-13
3	2495	2496	100	2495.22	-42.29	-13

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



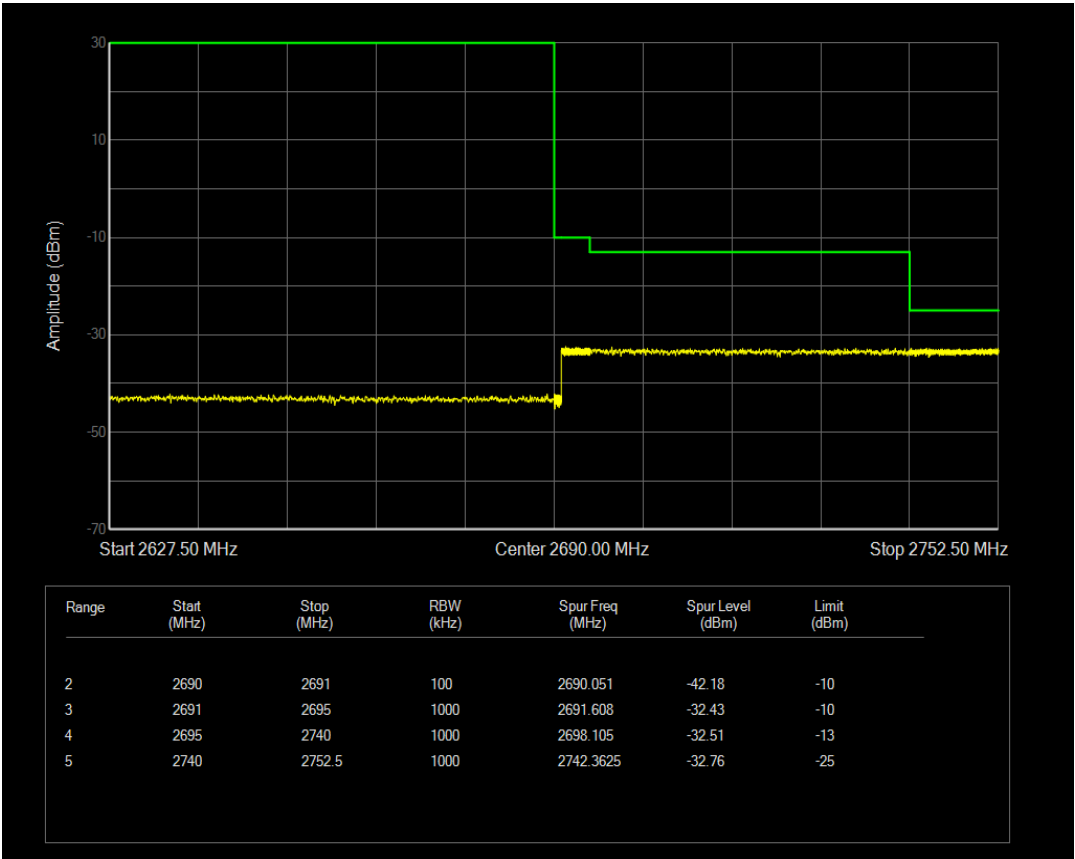
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2690	2691	1000	2690.01	-27.36	-10
3	2691	2695	1000	2692.872	-31.59	-10
4	2695	2740	1000	2697.7	-32.12	-13
5	2740	2752.5	1000	2751.225	-32.49	-25

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	2690.024	-42.4	-10
3	2691	2695	1000	2691.7	-32.4	-10
4	2695	2740	1000	2720.65	-32.71	-13
5	2740	2752.5	1000	2740.2875	-32.61	-25

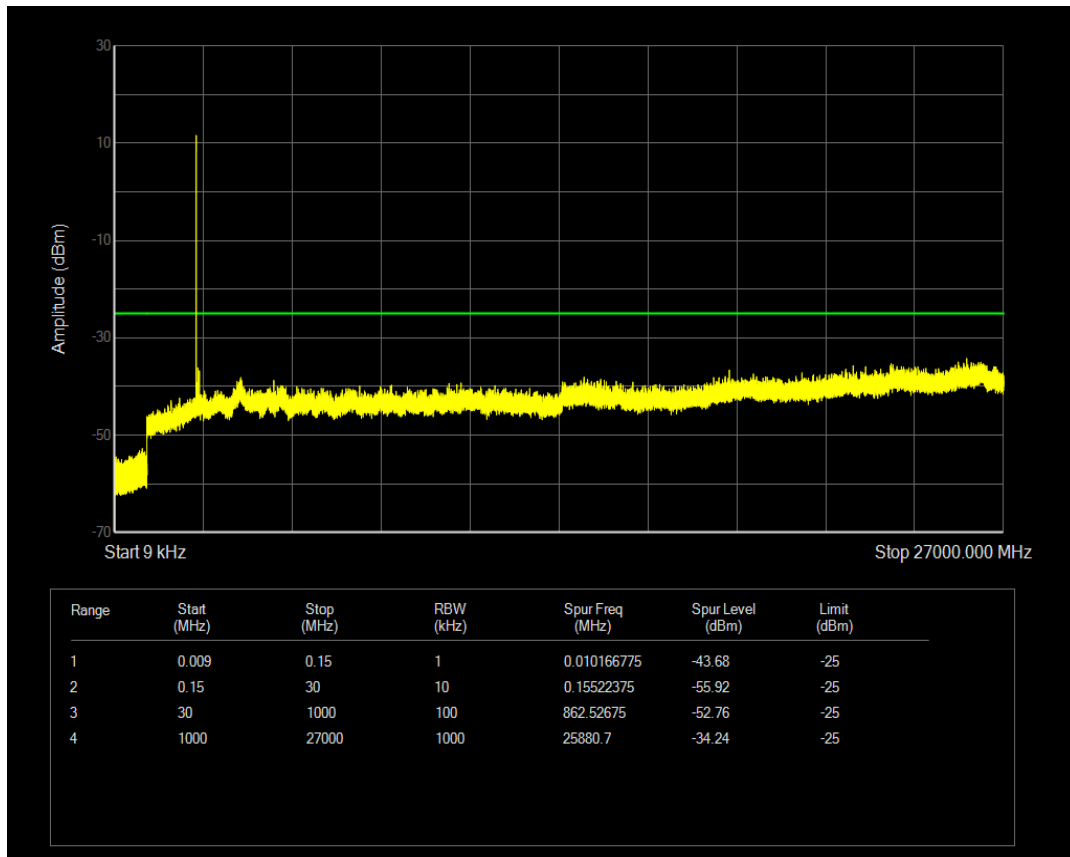
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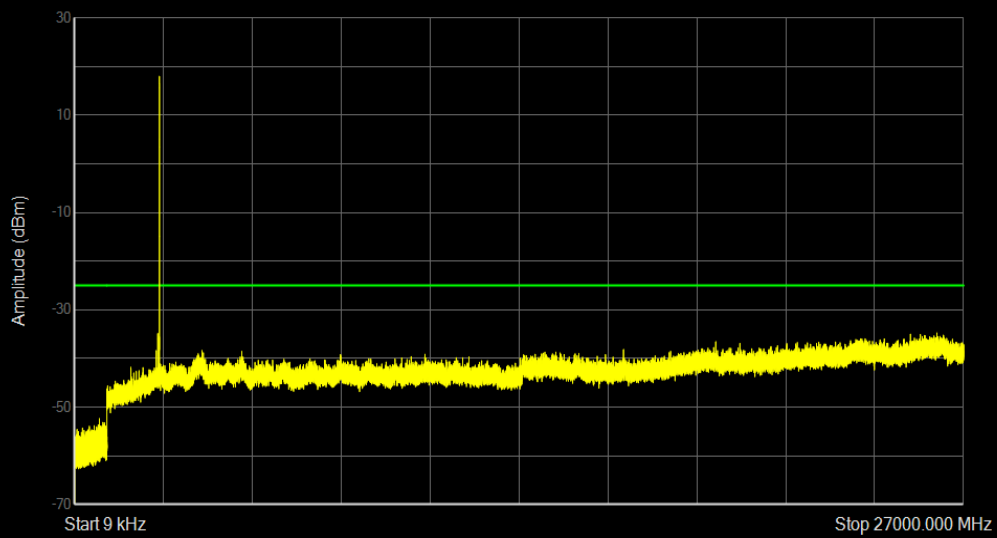


6 Out-of-band emissions for EN-DC

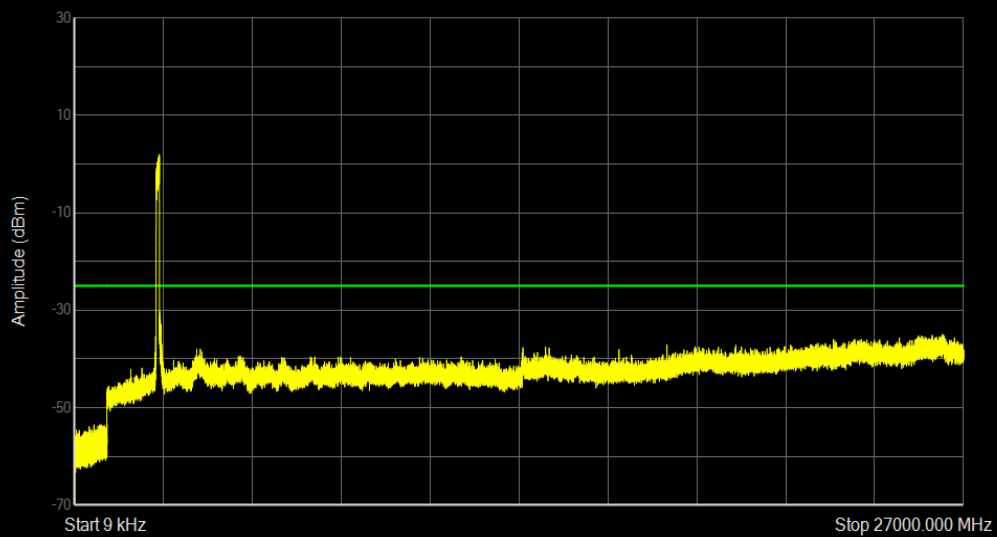
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n41	30	20	501204	51@0	CP_QPSK	26383.15	-34.78	-25	PASS
n41	30	20	501204	1@0	CP_QPSK	26398.75	-34.62	-25	PASS
n41	30	20	501204	1@50	CP_QPSK	25982.75	-34.50	-25	PASS
n41	30	20	535998	51@0	CP_QPSK	26315.55	-34.12	-25	PASS
n41	30	20	535998	1@0	CP_QPSK	25908.00	-34.58	-25	PASS
n41	30	20	535998	1@50	CP_QPSK	26045.80	-33.66	-25	PASS
n41	30	50	504204	133@0	CP_QPSK	25801.40	-34.60	-25	PASS
n41	30	50	504204	1@0	CP_QPSK	25732.50	-34.69	-25	PASS
n41	30	50	504204	1@132	CP_QPSK	26385.10	-33.95	-25	PASS
n41	30	50	532998	133@0	CP_QPSK	26489.75	-34.29	-25	PASS
n41	30	50	532998	1@0	CP_QPSK	25904.10	-34.65	-25	PASS
n41	30	50	532998	1@132	CP_QPSK	26370.80	-34.30	-25	PASS
n41	30	100	509202	273@0	CP_QPSK	26363.00	-34.99	-25	PASS
n41	30	100	509202	1@0	CP_QPSK	25880.70	-34.24	-25	PASS
n41	30	100	509202	1@272	CP_QPSK	26190.10	-34.75	-25	PASS
n41	30	100	528000	273@0	CP_QPSK	23964.50	-34.46	-25	PASS
n41	30	100	528000	1@0	CP_QPSK	23546.55	-33.89	-25	PASS
n41	30	100	528000	1@272	CP_QPSK	26288.90	-34.53	-25	PASS

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

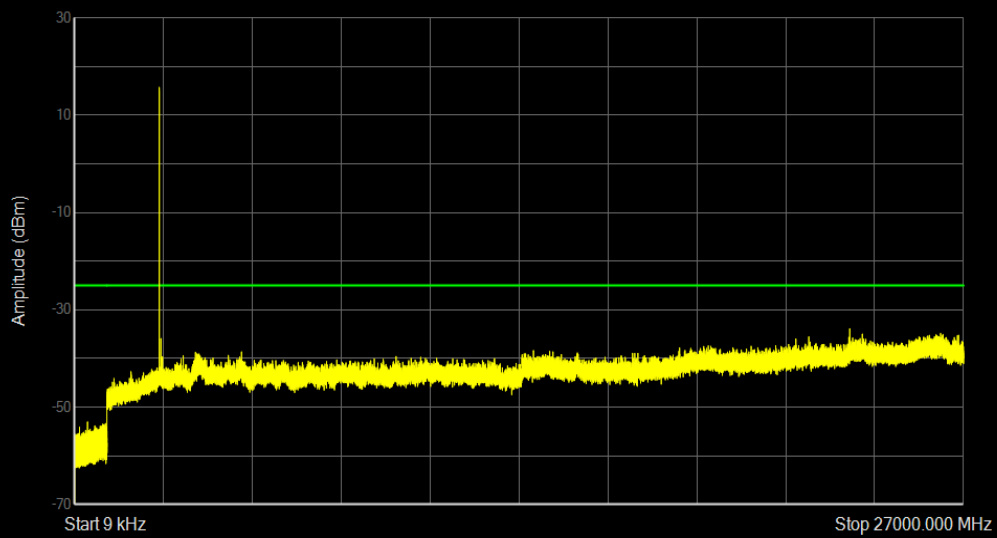


n41 SCS=30kHz CP_QPSK BW=100MHz Channel=509202 RB=1@272

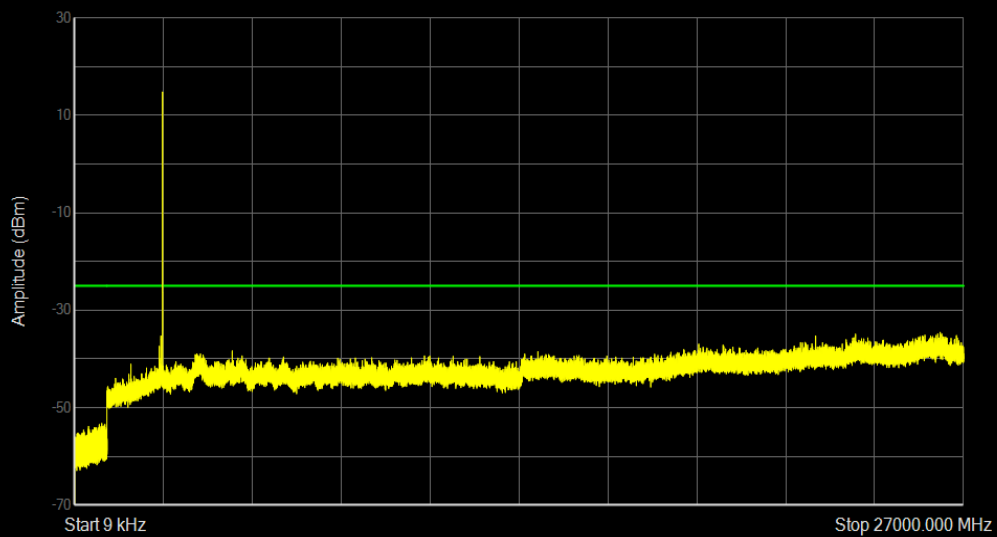
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009045825	-44.46	-25
2	0.15	30	10	0.15	-55.11	-25
3	30	1000	100	776.97275	-52.38	-25
4	1000	27000	1000	26190.1	-34.75	-25

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

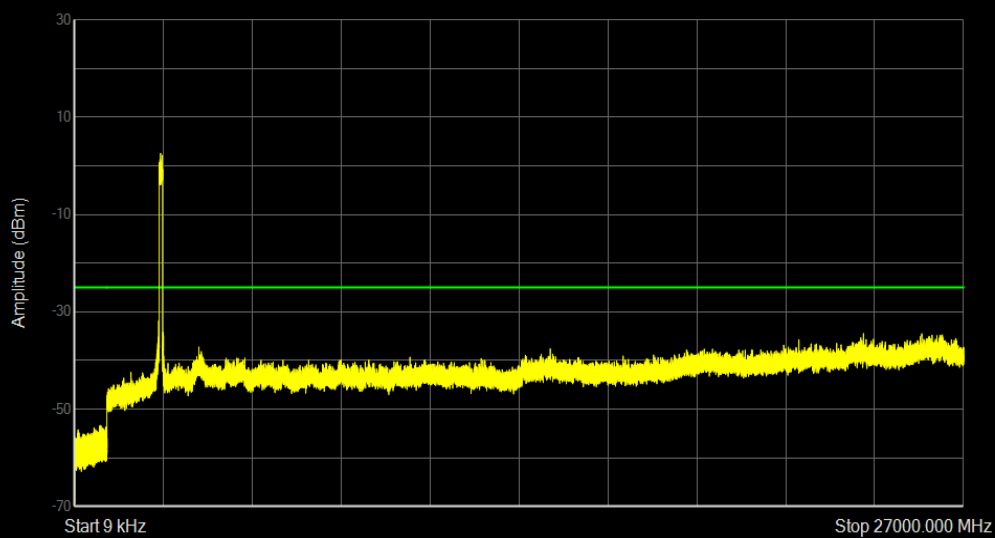
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009165675	-44.4	-25
2	0.15	30	10	0.15	-55.61	-25
3	30	1000	100	999.709	-53.32	-25
4	1000	27000	1000	26363	-34.99	-25

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

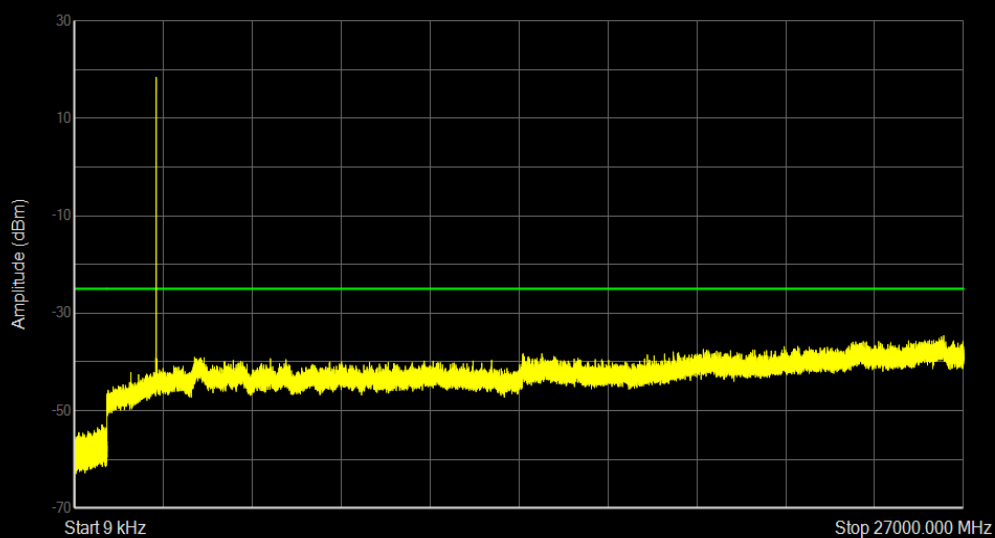
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01243335	-45.06	-25
2	0.15	30	10	0.16716375	-56.49	-25
3	30	1000	100	415.478	-53.03	-25
4	1000	27000	1000	23546.55	-33.89	-25

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	0.01518285	-44.7	-25
2	0.15	30	10	0.15	-55.2	-25
3	30	1000	100	848.1465	-53.27	-25
4	1000	27000	1000	26288.9	-34.53	-25

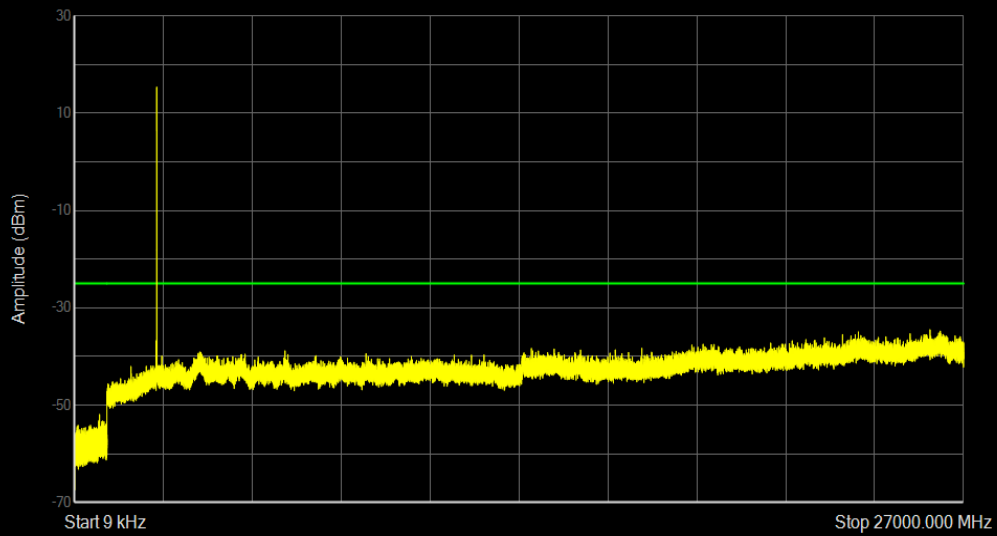
n41 SCS=30kHz CP_QPSK BW=100MHz Channel=528000 RB=273@0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012243	-45.32	-25
2	0.15	30	10	0.1843275	-55.61	-25
3	30	1000	100	819.21625	-53.36	-25
4	1000	27000	1000	23964.5	-34.46	-25

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

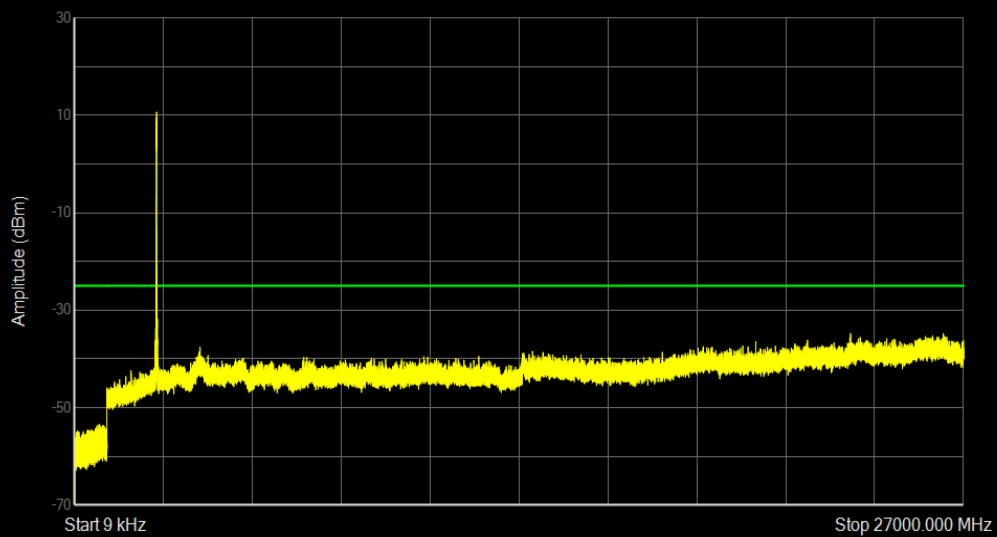
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011174925	-45.21	-25
2	0.15	30	10	0.17611875	-55.68	-25
3	30	1000	100	850.135	-52.91	-25
4	1000	27000	1000	26398.75	-34.62	-25

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

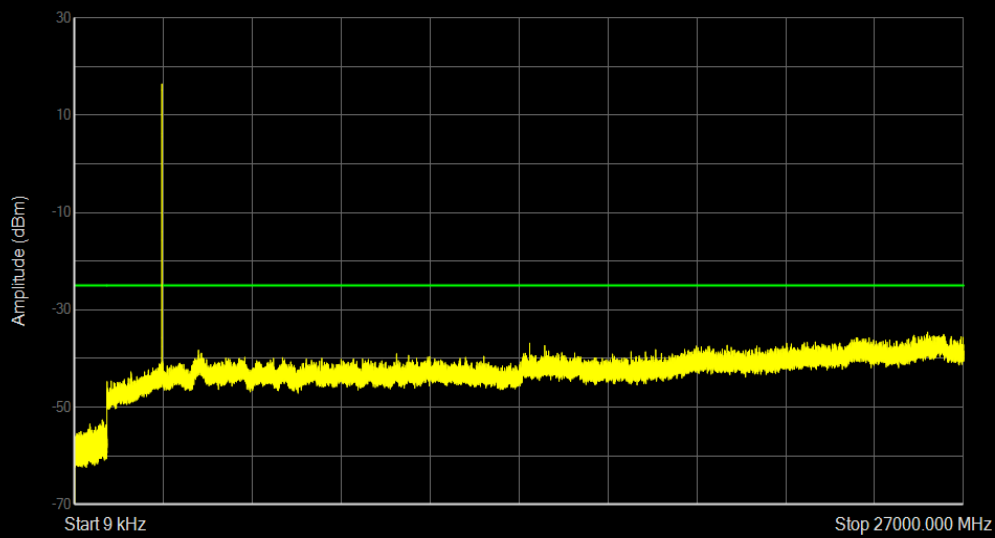


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010110375	-45.08	-25
2	0.15	30	10	0.15	-55.52	-25
3	30	1000	100	779.3735	-51.92	-25
4	1000	27000	1000	25982.75	-34.5	-25

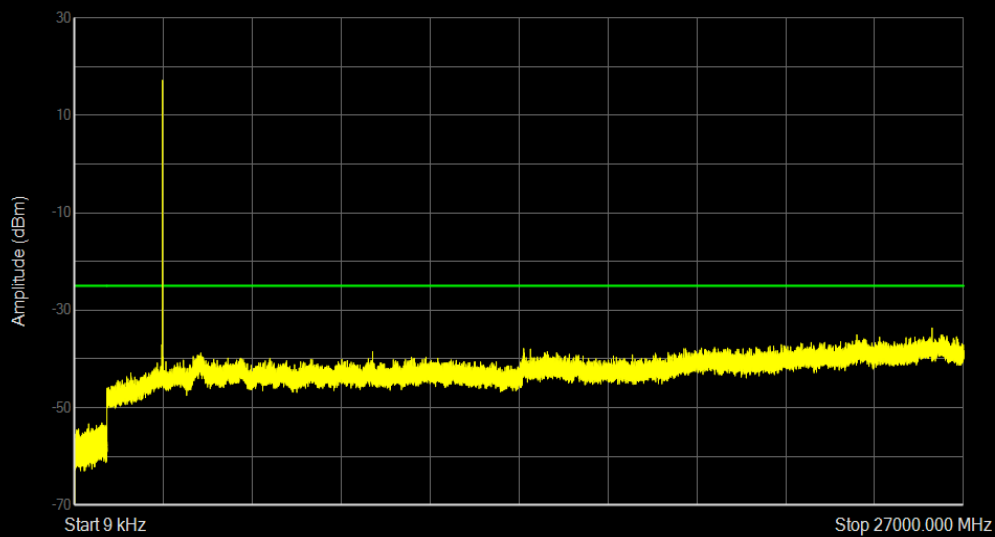
n41 SCS=30kHz CP_QPSK BW=20MHz Channel=501204 RB=51@0



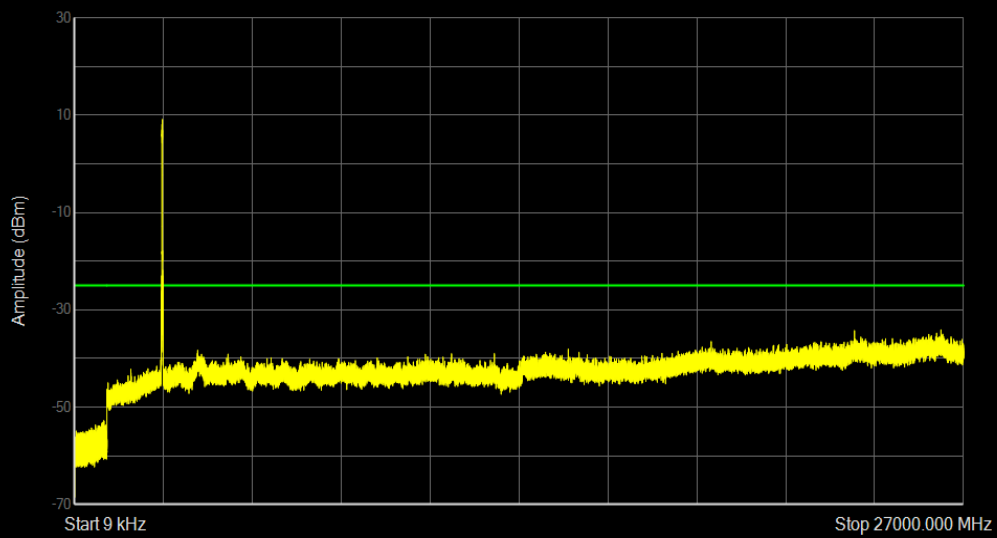
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011689575	-45.86	-25
2	0.15	30	10	0.1873125	-55.62	-25
3	30	1000	100	780.0525	-53.43	-25
4	1000	27000	1000	26383.15	-34.78	-25

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

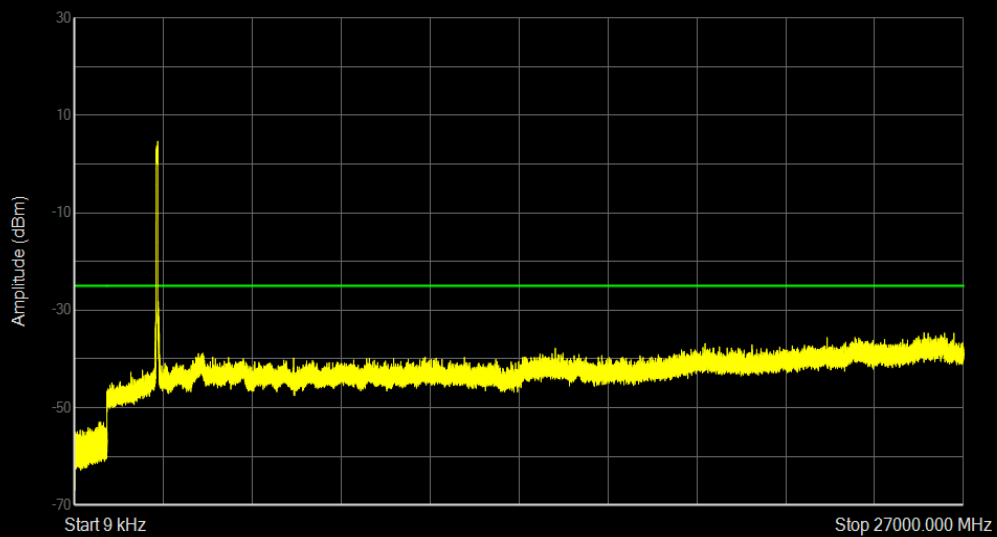
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01048755	-43.17	-25
2	0.15	30	10	0.1932825	-56	-25
3	30	1000	100	863.30275	-52.62	-25
4	1000	27000	1000	25908	-34.58	-25

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

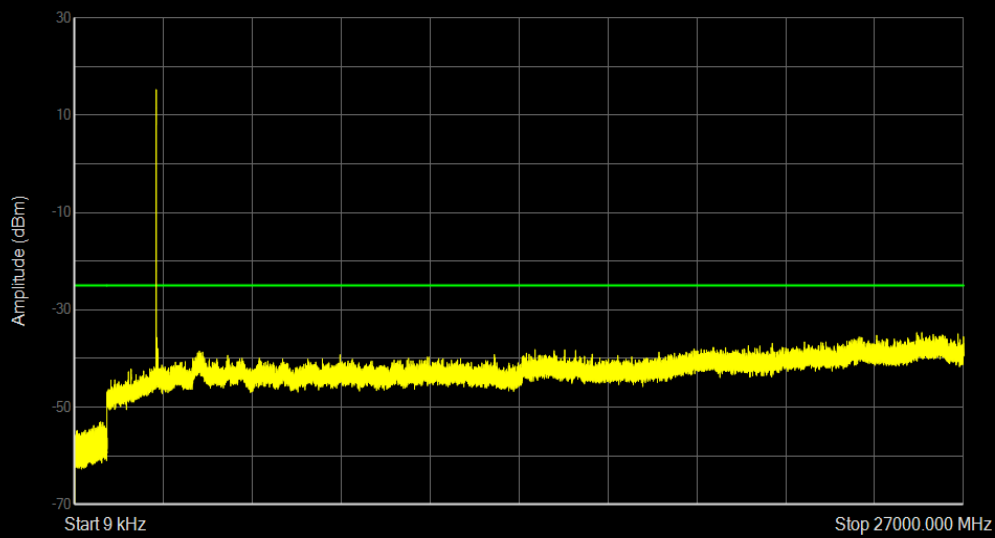
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0092961	-45.67	-25
2	0.15	30	10	0.152985	-55.54	-25
3	30	1000	100	852.39025	-53.14	-25
4	1000	27000	1000	26045.8	-33.66	-25

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

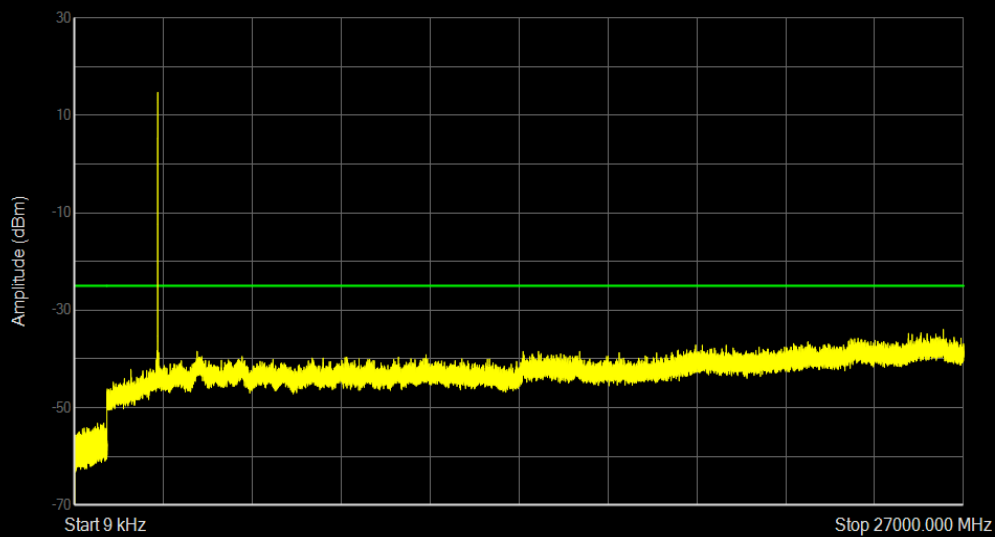
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01502775	-44.03	-25
2	0.15	30	10	0.158955	-55.23	-25
3	30	1000	100	903.679	-52.83	-25
4	1000	27000	1000	26315.55	-34.12	-25

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

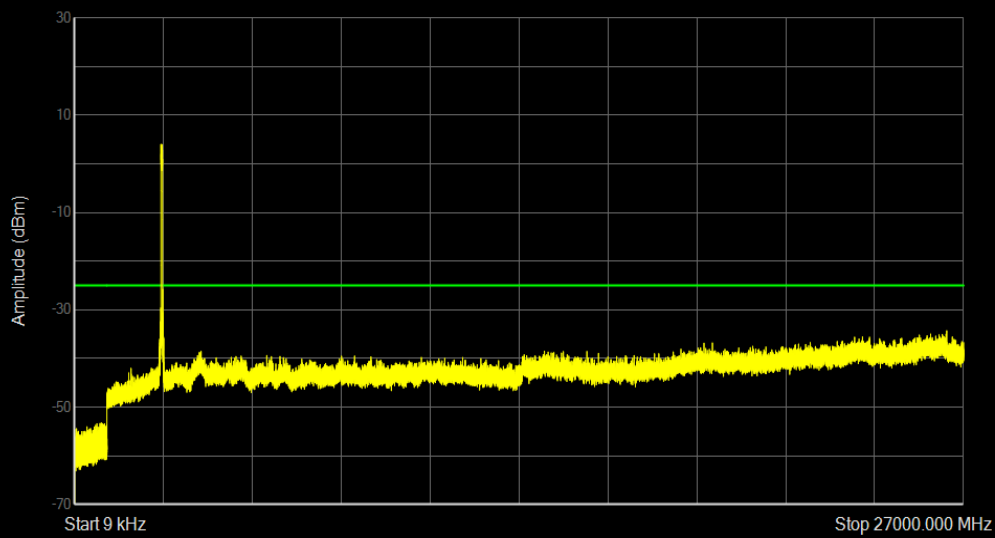
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0135261	-45.05	-25
2	0.15	30	10	0.17462625	-54.54	-25
3	30	1000	100	766.327	-52.96	-25
4	1000	27000	1000	25801.4	-34.6	-25

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

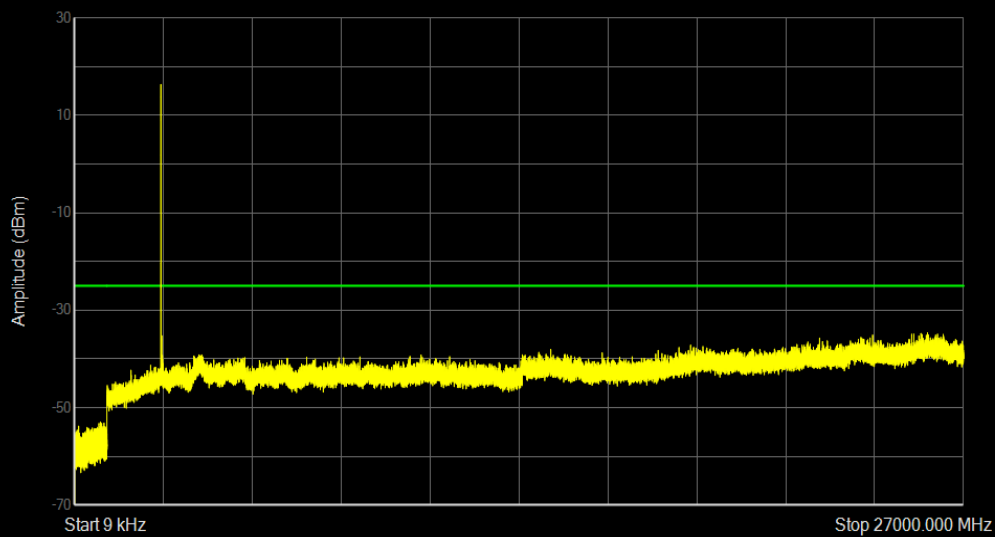
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0125391	-45.52	-25
2	0.15	30	10	0.1634325	-55.18	-25
3	30	1000	100	813.275	-53.04	-25
4	1000	27000	1000	25732.5	-34.69	-25

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	0.009158625	-45.04	-25
2	0.15	30	10	0.15373125	-56.73	-25
3	30	1000	100	905.15825	-53.17	-25
4	1000	27000	1000	26385.1	-33.95	-25

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)
1	0.009	0.15	1	0.00909165	-44	-25
2	0.15	30	10	0.1514925	-53.83	-25
3	30	1000	100	827.99475	-53.3	-25
4	1000	27000	1000	26489.75	-34.29	-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)
1	0.009	0.15	1	0.0098601	-43.06	-25
2	0.15	30	10	0.170895	-56.22	-25
3	30	1000	100	806	-52.97	-25
4	1000	27000	1000	25904.1	-34.65	-25

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

