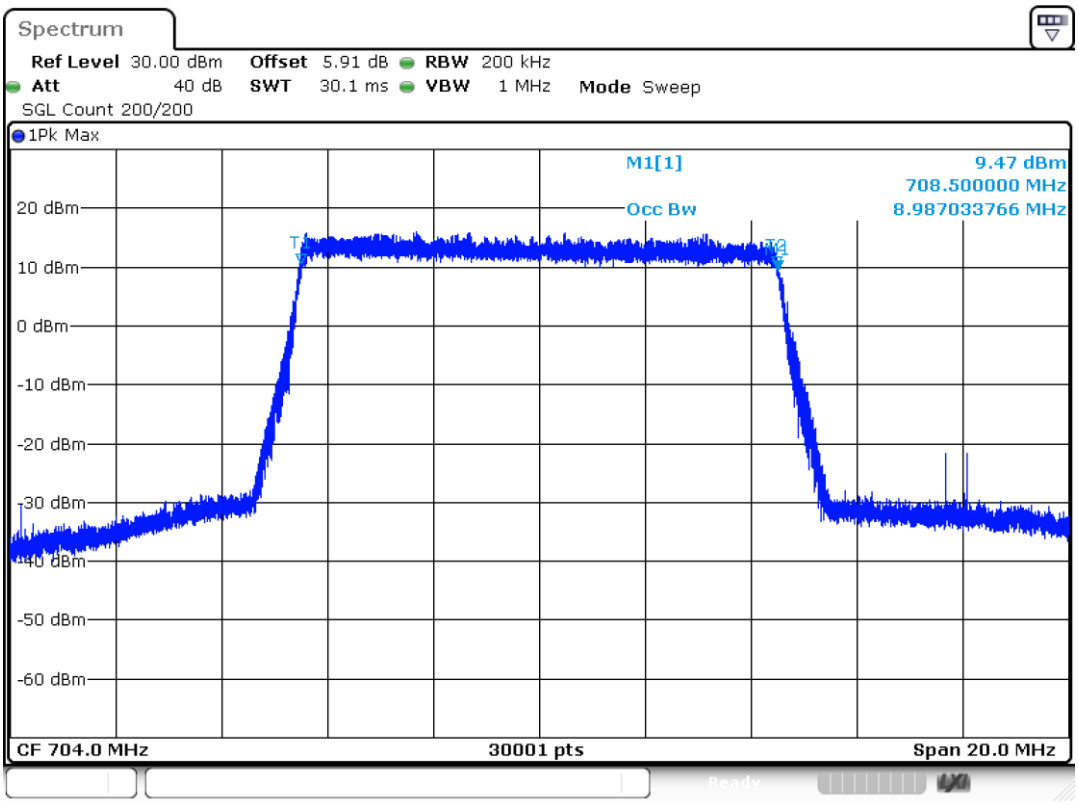
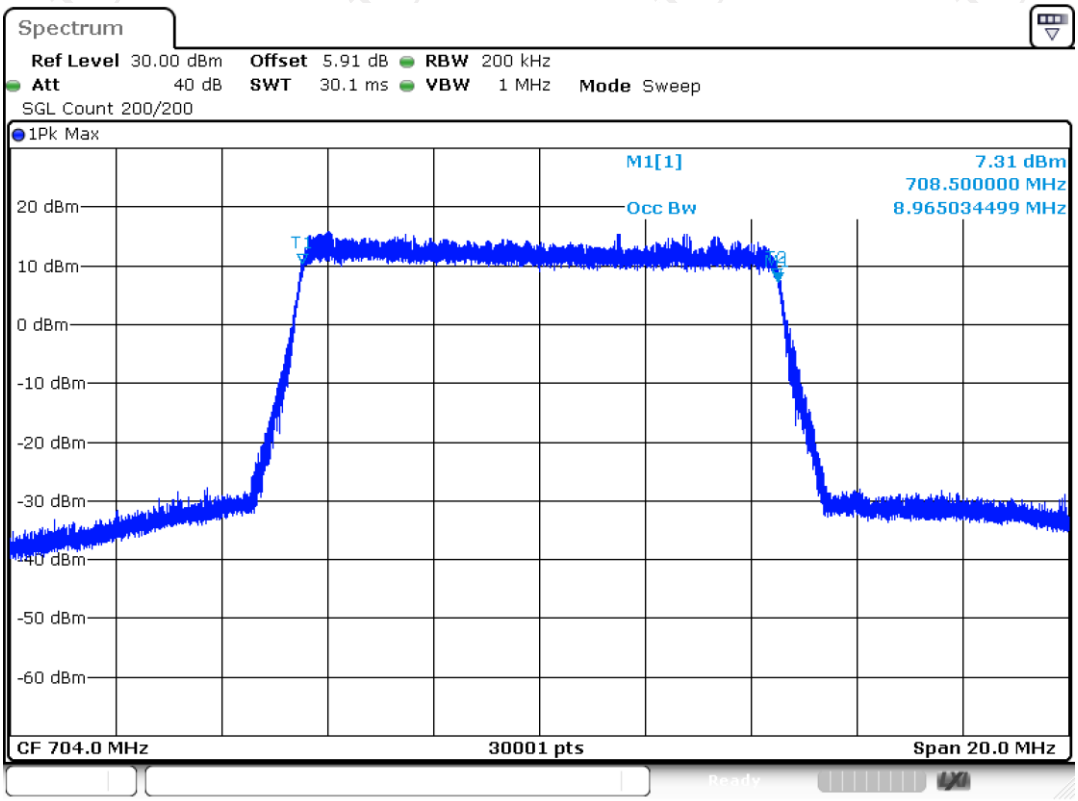


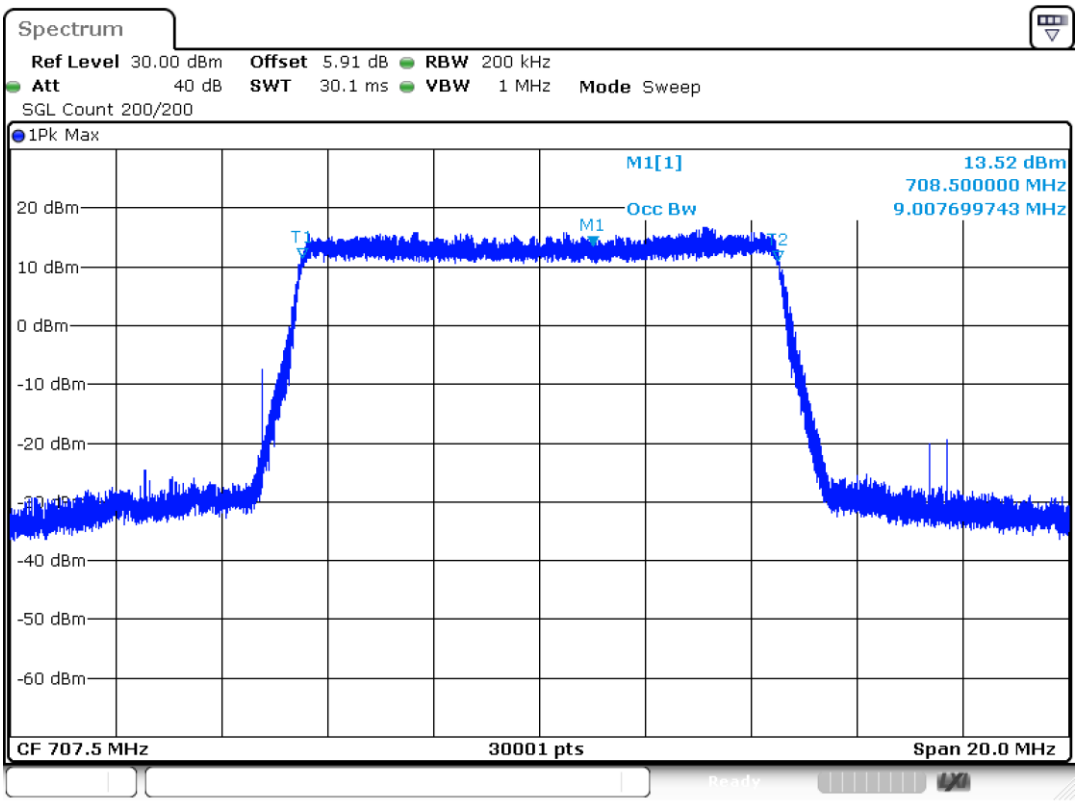
Date: 27.NOV.2024 10:58:40

Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0

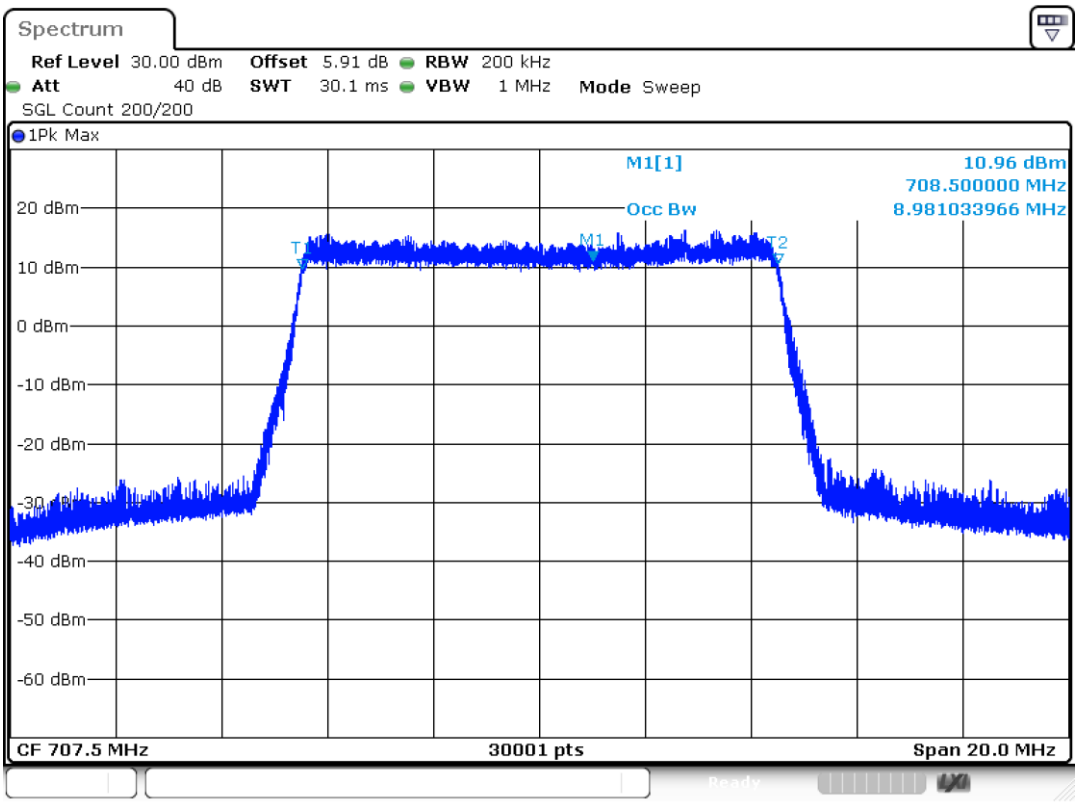


Date: 27.NOV.2024 10:58:59

Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0

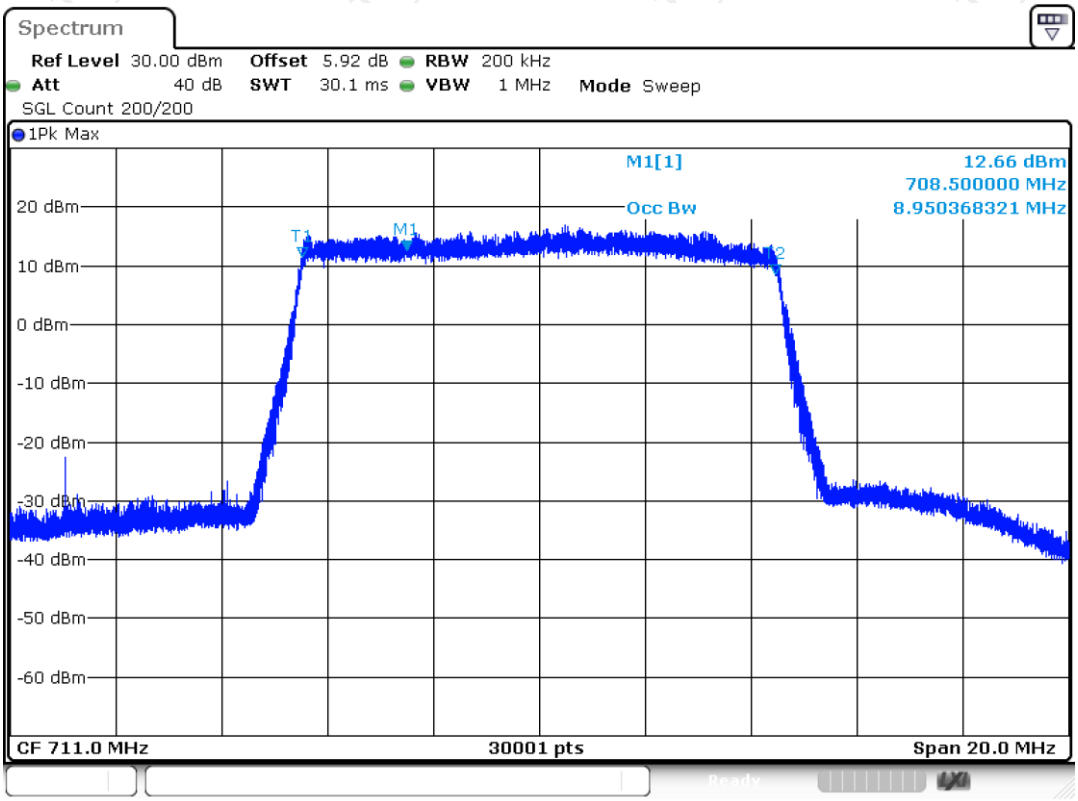


Band12 QAM16 BW=10MHz Channel=23095 RB Size=50 Position=#0



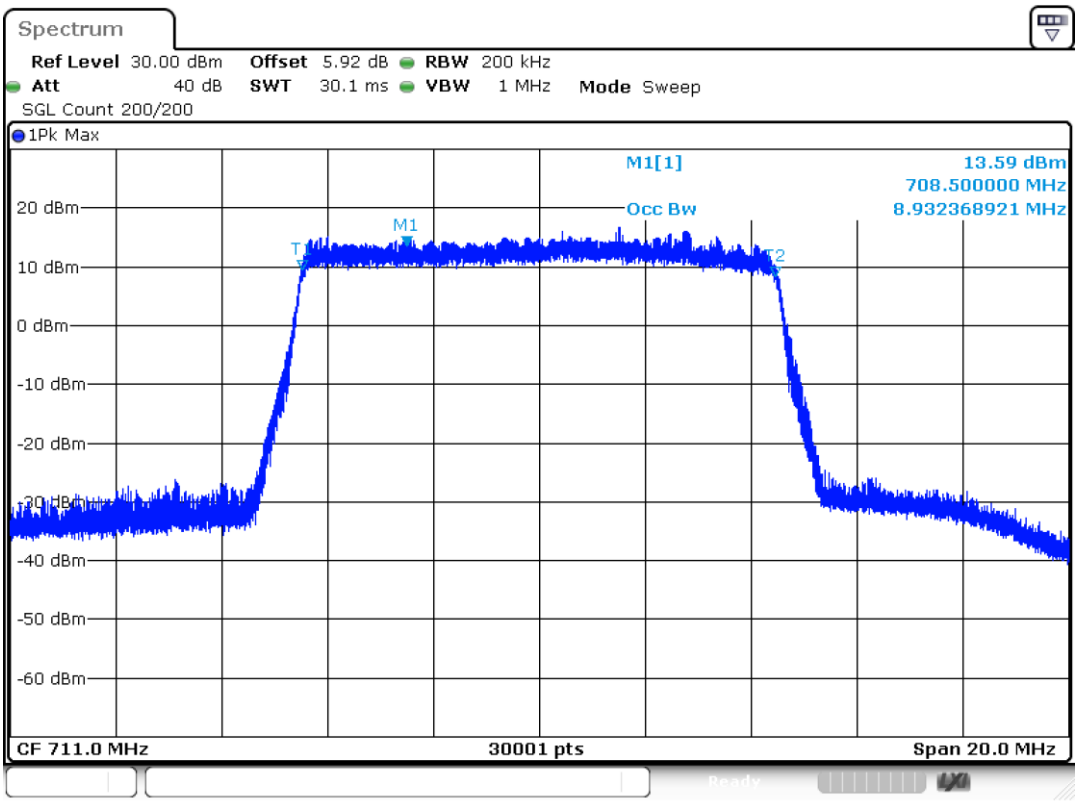
Date: 27.NOV.2024 10:59:34

Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



Date: 27.NOV.2024 10:59:53

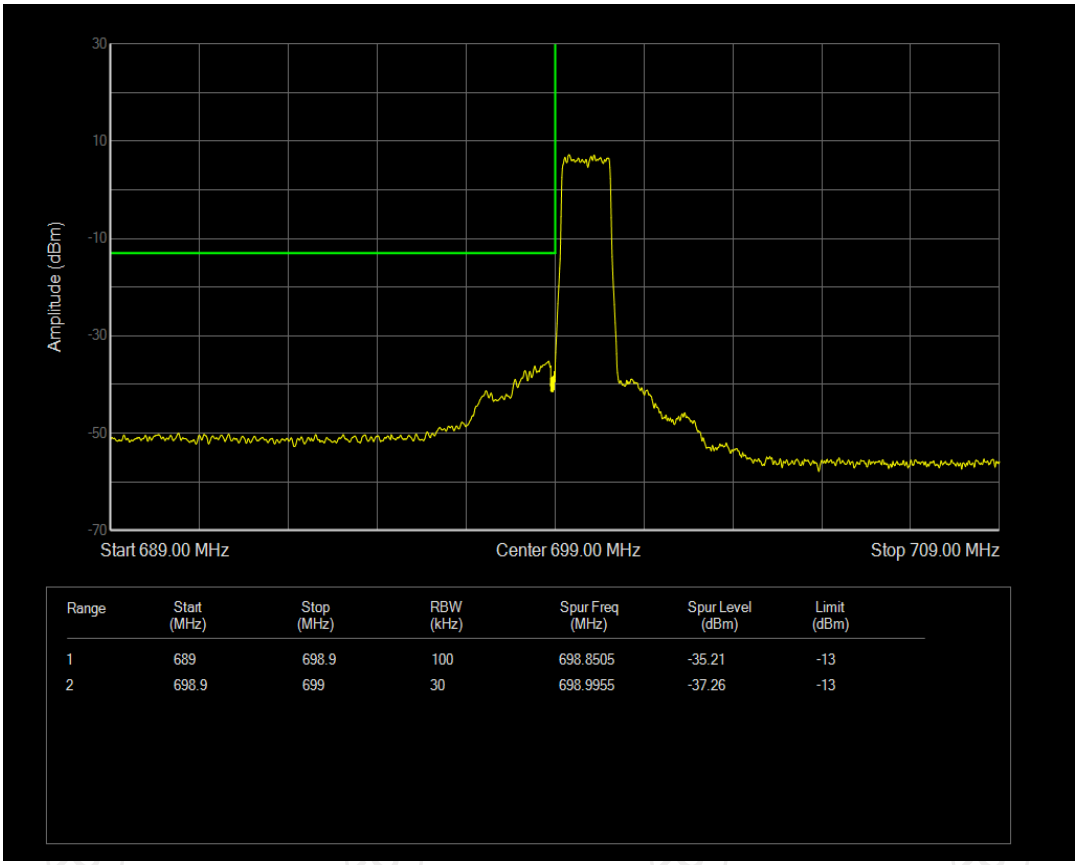
Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0



5 Band edge

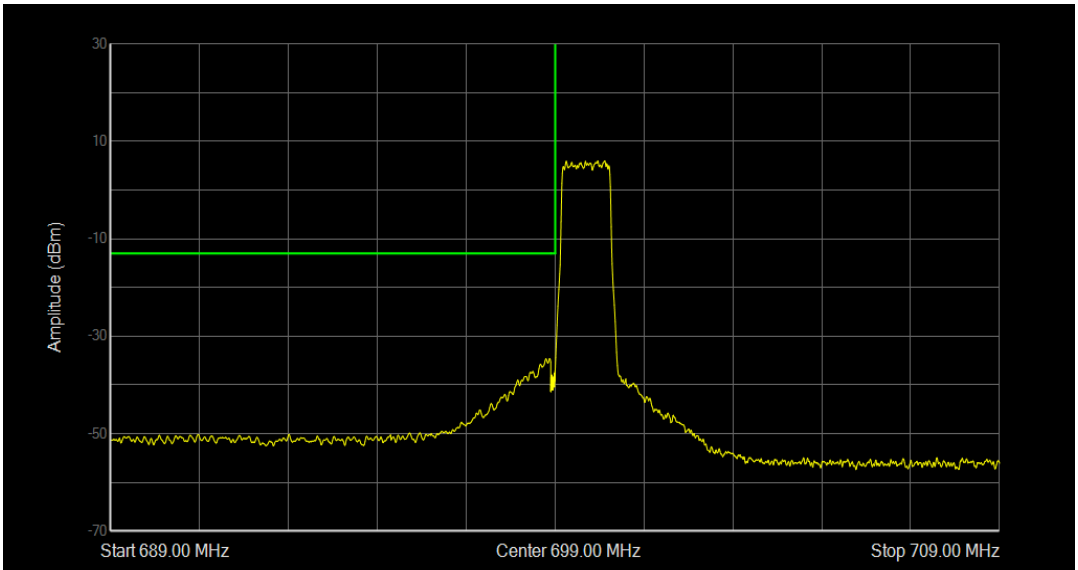
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	1.4	23017	6	#0	QPSK	698.85	-35.21	-13	PASS
Band12	1.4	23017	6	#0	QAM16	698.87	-34.60	-13	PASS
Band12	1.4	23173	6	#0	QPSK	716.11	-30.69	-13	PASS
Band12	1.4	23173	6	#0	QAM16	716.50	-33.60	-13	PASS
Band12	3	23025	15	#0	QPSK	699.00	-32.04	-13	PASS
Band12	3	23025	15	#0	QAM16	699.00	-32.61	-13	PASS
Band12	3	23165	15	#0	QPSK	716.00	-31.70	-13	PASS
Band12	3	23165	15	#0	QAM16	716.00	-31.49	-13	PASS
Band12	5	23035	25	#0	QPSK	699.00	-32.20	-13	PASS
Band12	5	23035	25	#0	QAM16	699.00	-33.07	-13	PASS
Band12	5	23155	25	#0	QPSK	716.00	-32.66	-13	PASS
Band12	5	23155	25	#0	QAM16	716.02	-33.76	-13	PASS
Band12	10	23060	50	#0	QPSK	698.86	-36.33	-13	PASS
Band12	10	23060	50	#0	QAM16	698.89	-36.48	-13	PASS
Band12	10	23130	50	#0	QPSK	716.22	-38.43	-13	PASS
Band12	10	23130	50	#0	QAM16	716.11	-37.44	-13	PASS

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



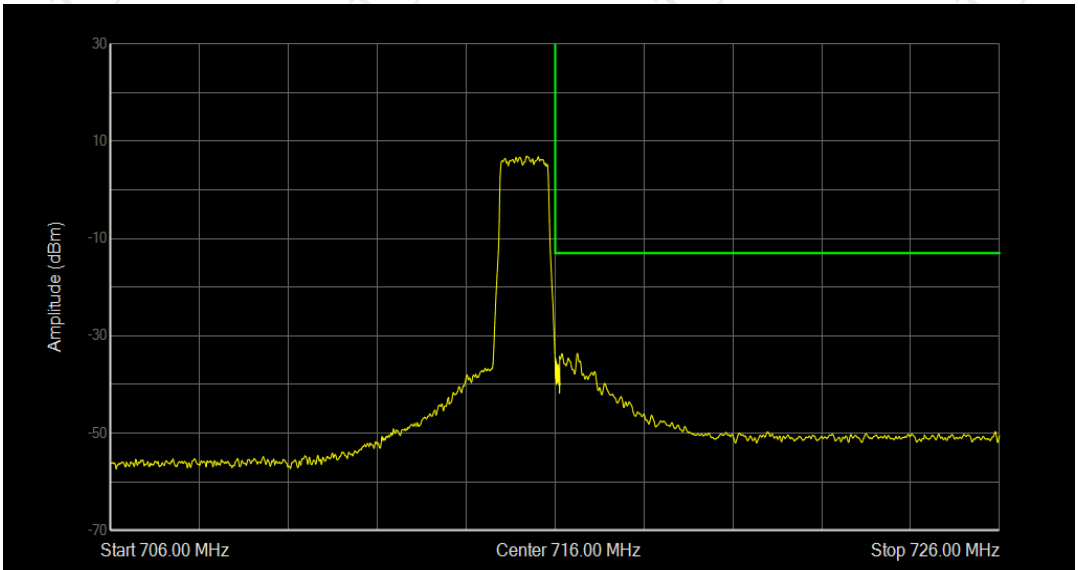
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.8505	-35.21	-13
2	698.9	699	30	698.9955	-37.26	-13

Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0



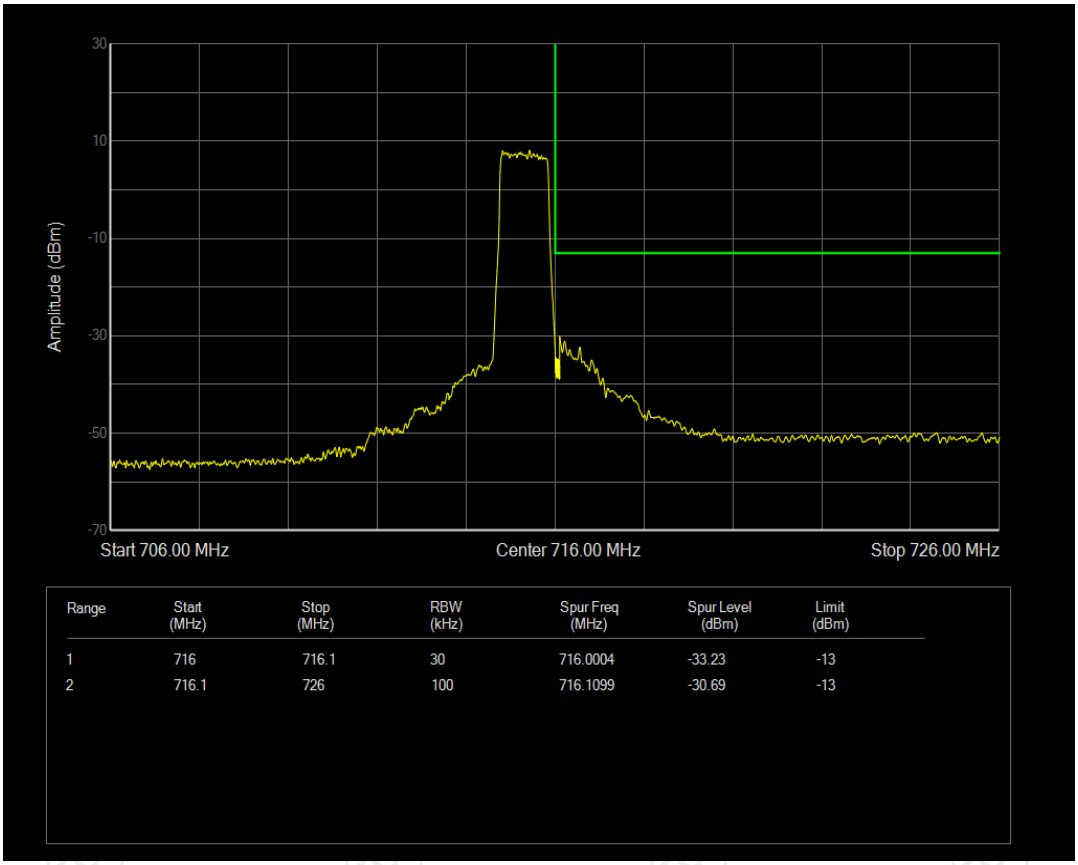
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.8703	-34.6	-13
2	698.9	699	30	698.9963	-37.18	-13

Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0



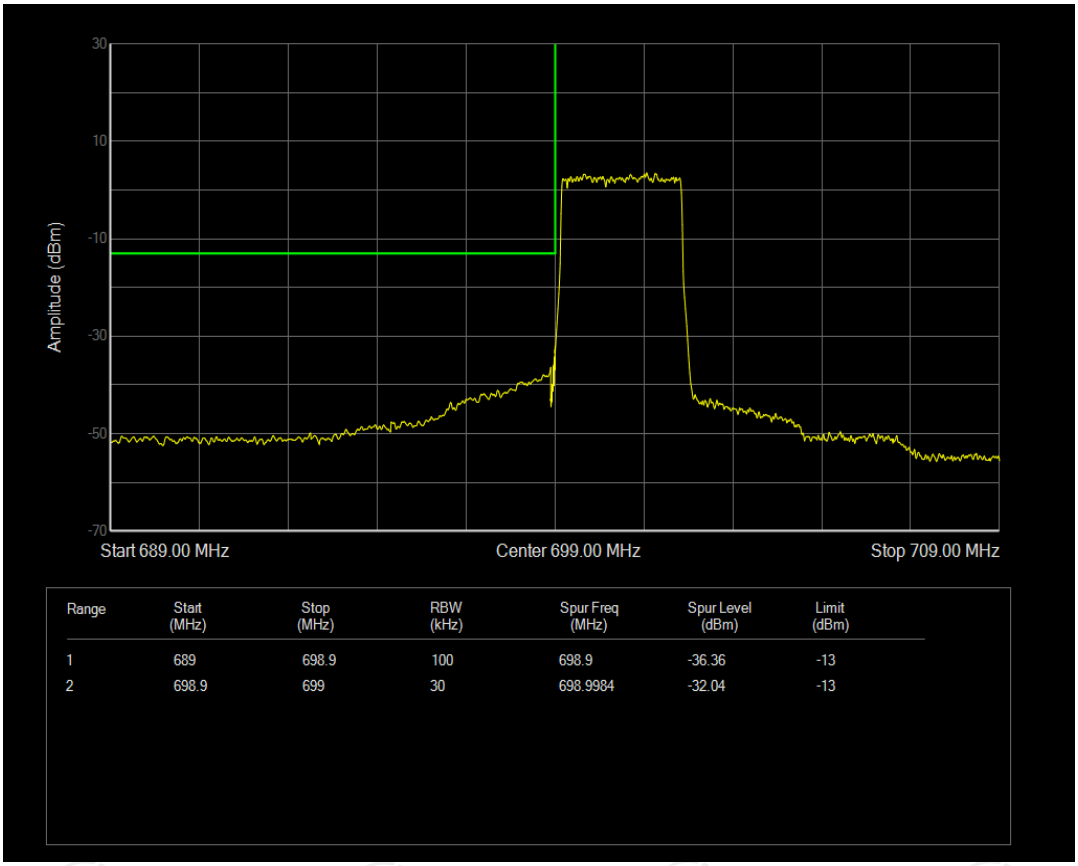
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0033	-34.59	-13
2	716.1	726	100	716.496	-33.6	-13

Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0



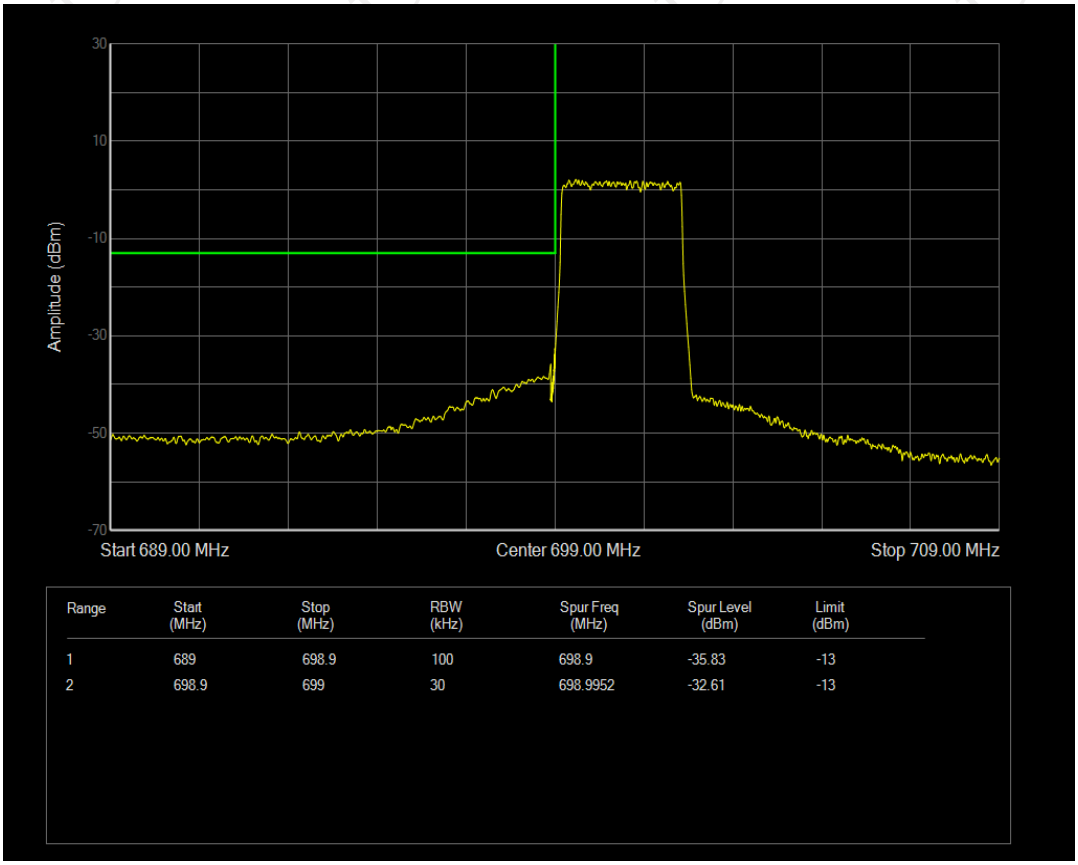
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0004	-33.23	-13
2	716.1	726	100	716.1099	-30.69	-13

Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



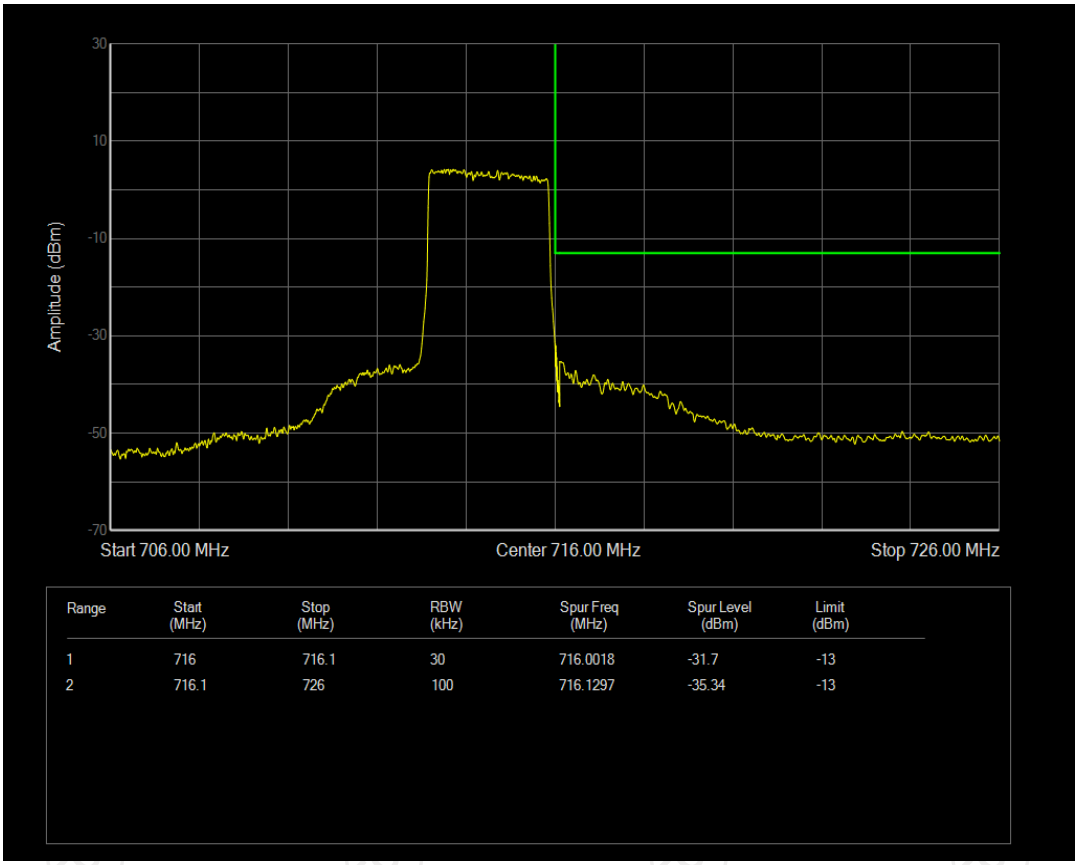
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-36.36	-13
2	698.9	699	30	698.9984	-32.04	-13

Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0



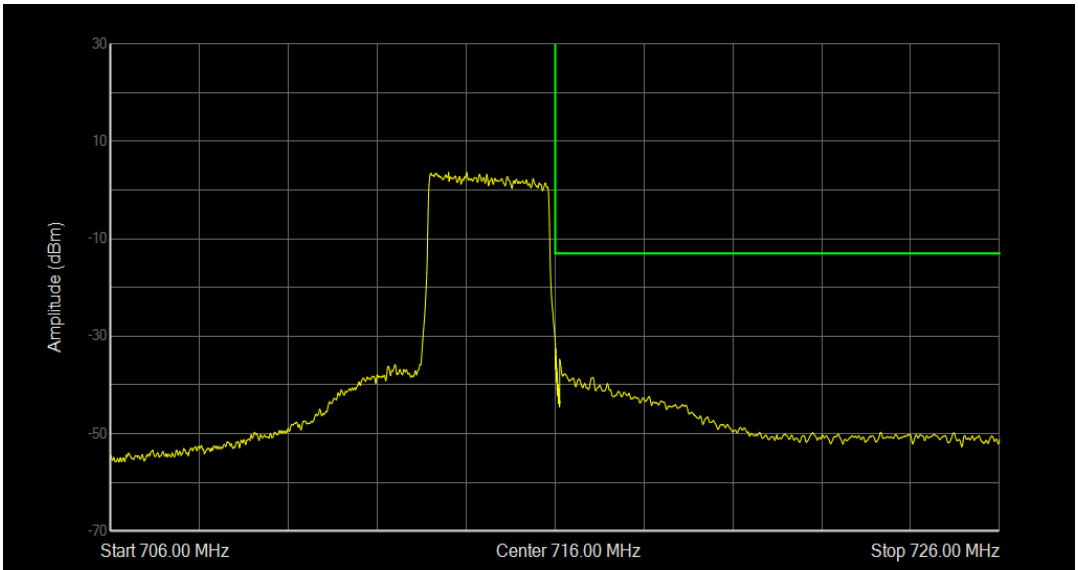
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-35.83	-13
2	698.9	699	30	698.9952	-32.61	-13

Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0



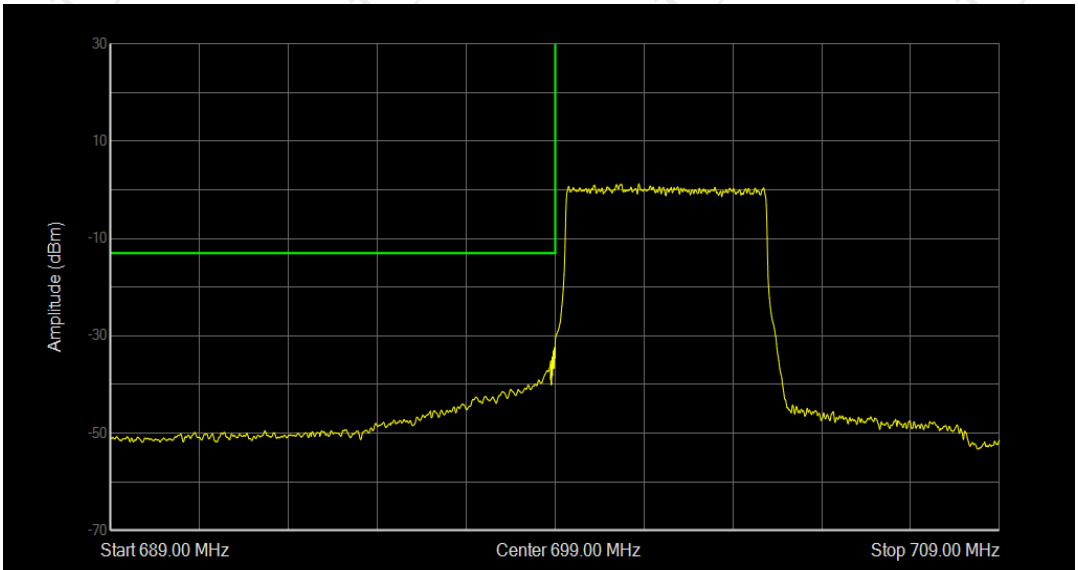
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0018	-31.7	-13
2	716.1	726	100	716.1297	-35.34	-13

Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0



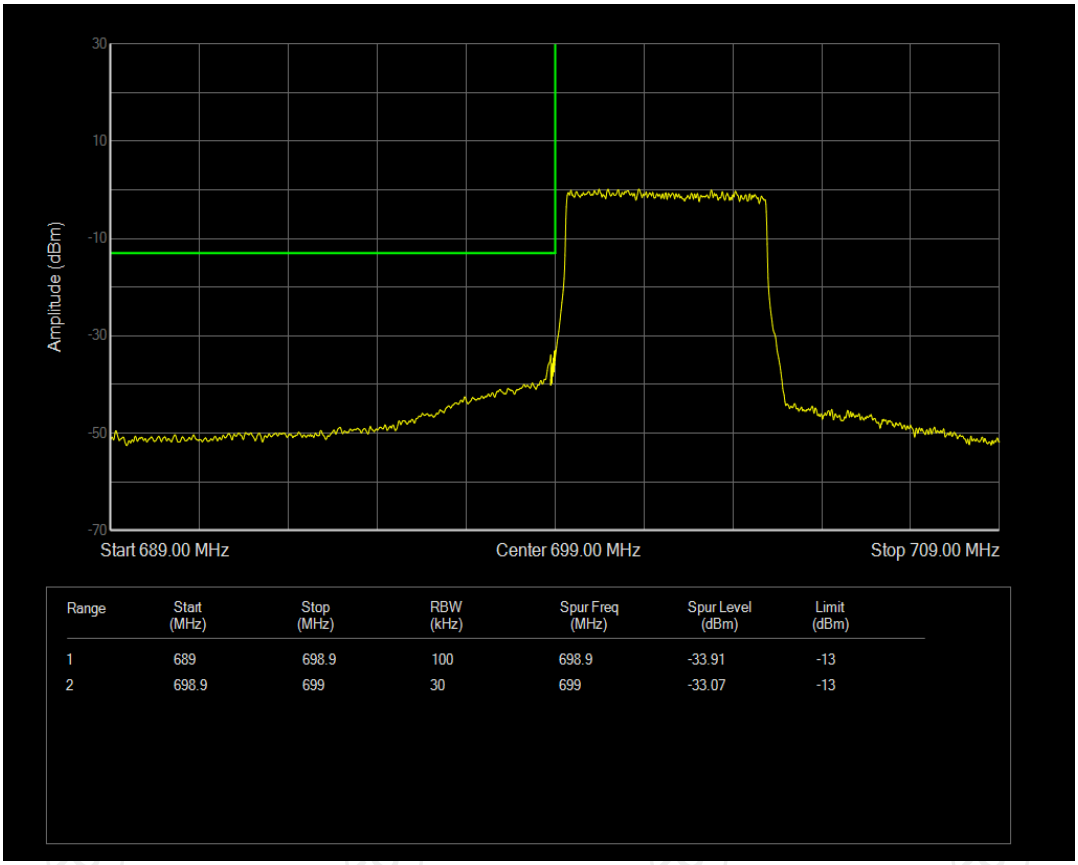
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0025	-31.49	-13
2	716.1	726	100	716.1099	-35.12	-13

Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



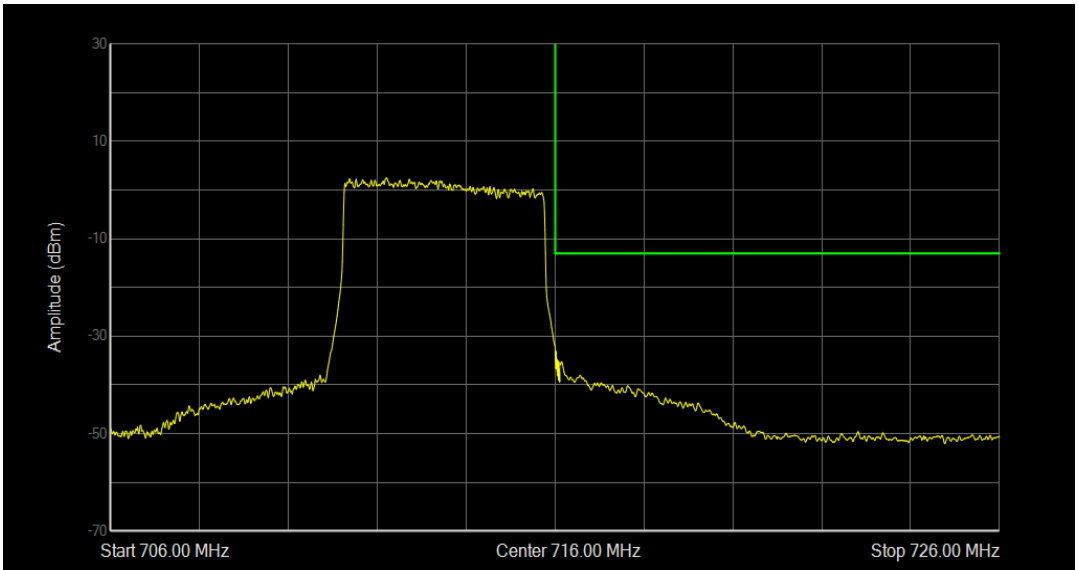
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-35.15	-13
2	698.9	699	30	698.998	-32.2	-13

Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0



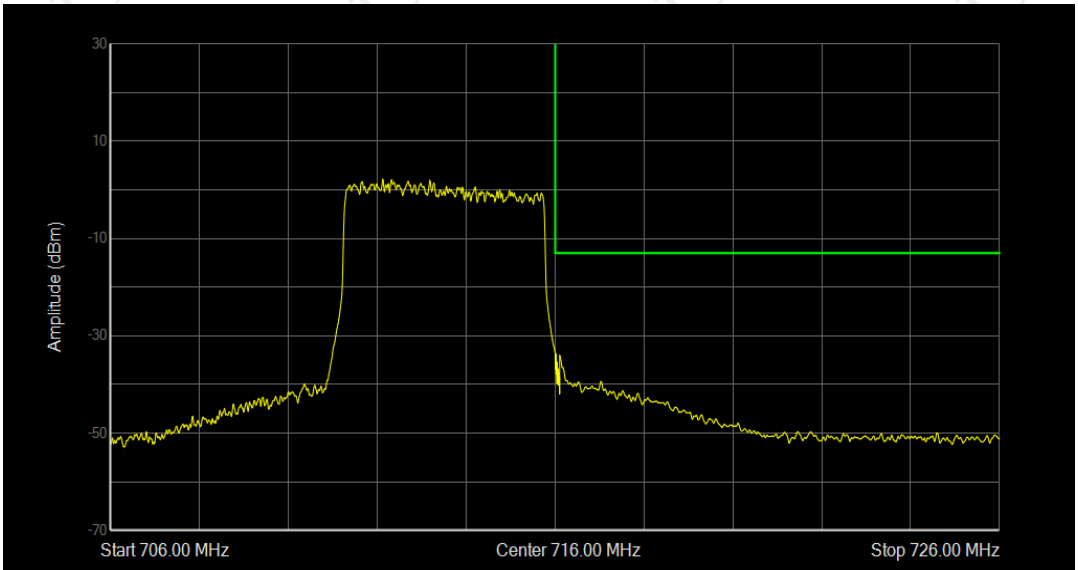
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-33.91	-13
2	698.9	699	30	699	-33.07	-13

Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0



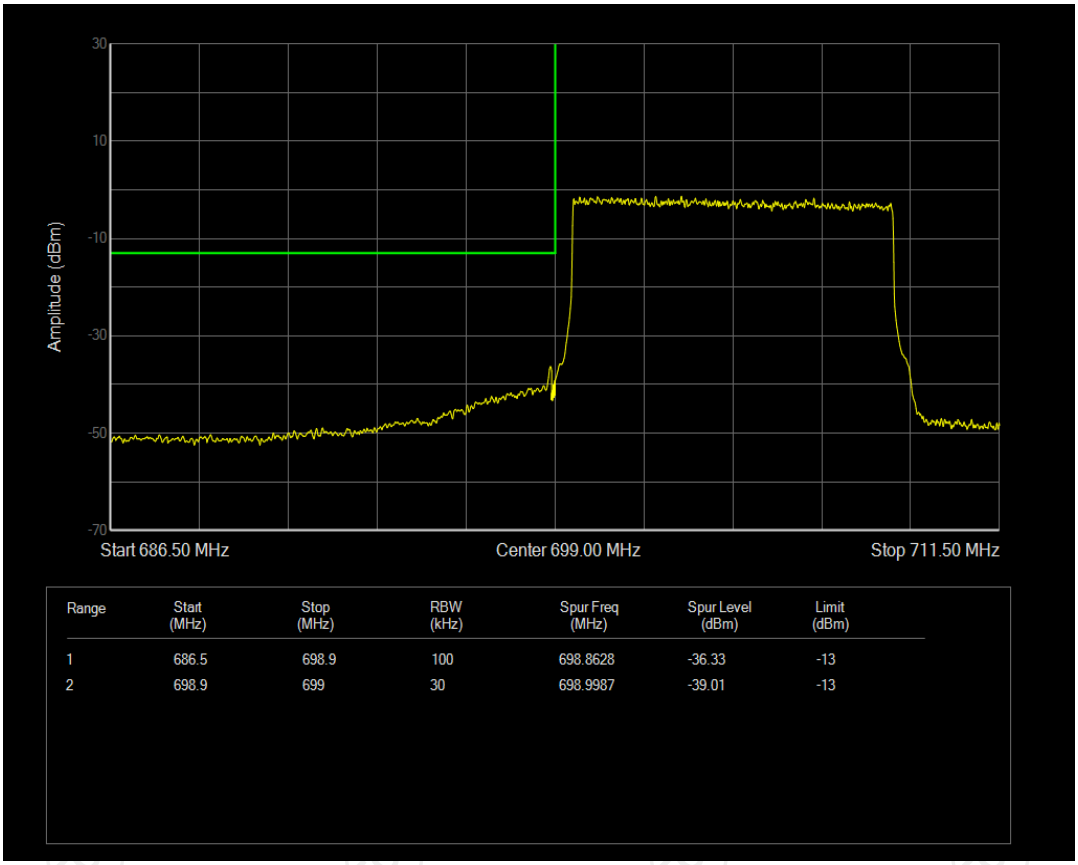
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0008	-32.66	-13
2	716.1	726	100	716.1396	-35.25	-13

Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0



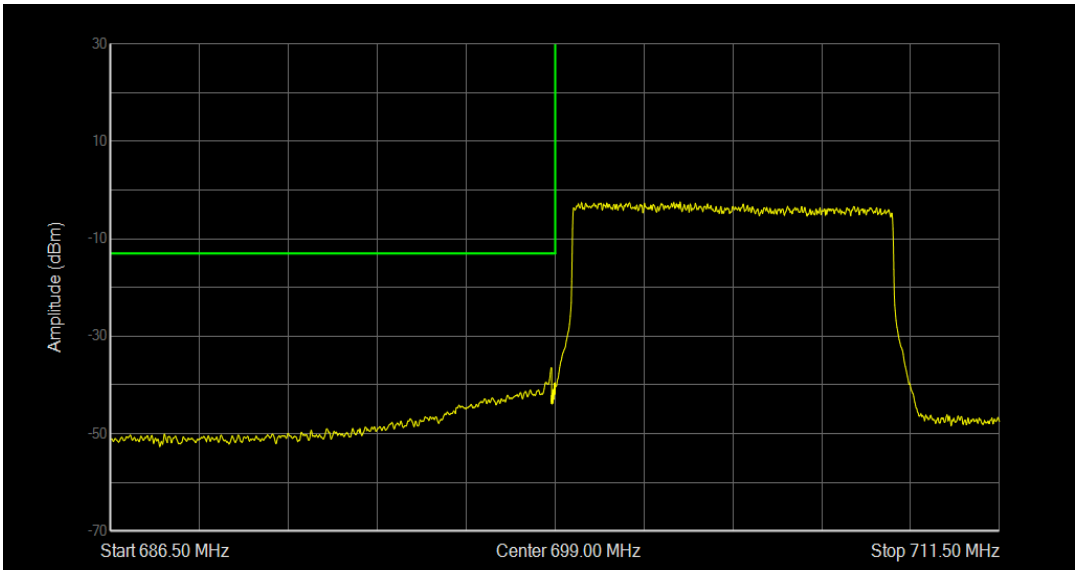
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0166	-33.76	-13
2	716.1	726	100	716.1099	-34.23	-13

Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



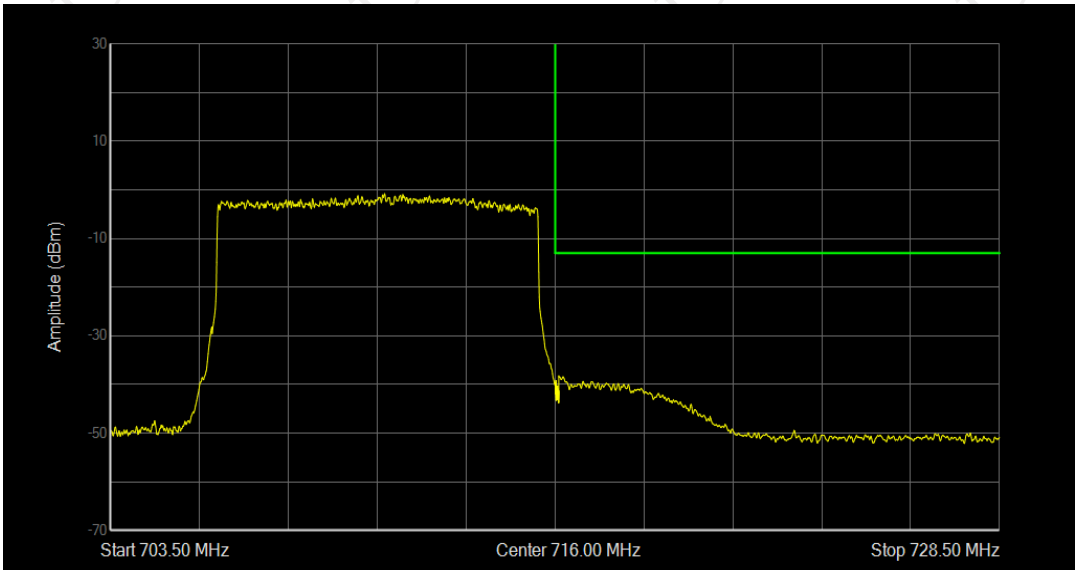
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698.9	100	698.8628	-36.33	-13
2	698.9	699	30	698.9987	-39.01	-13

Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0



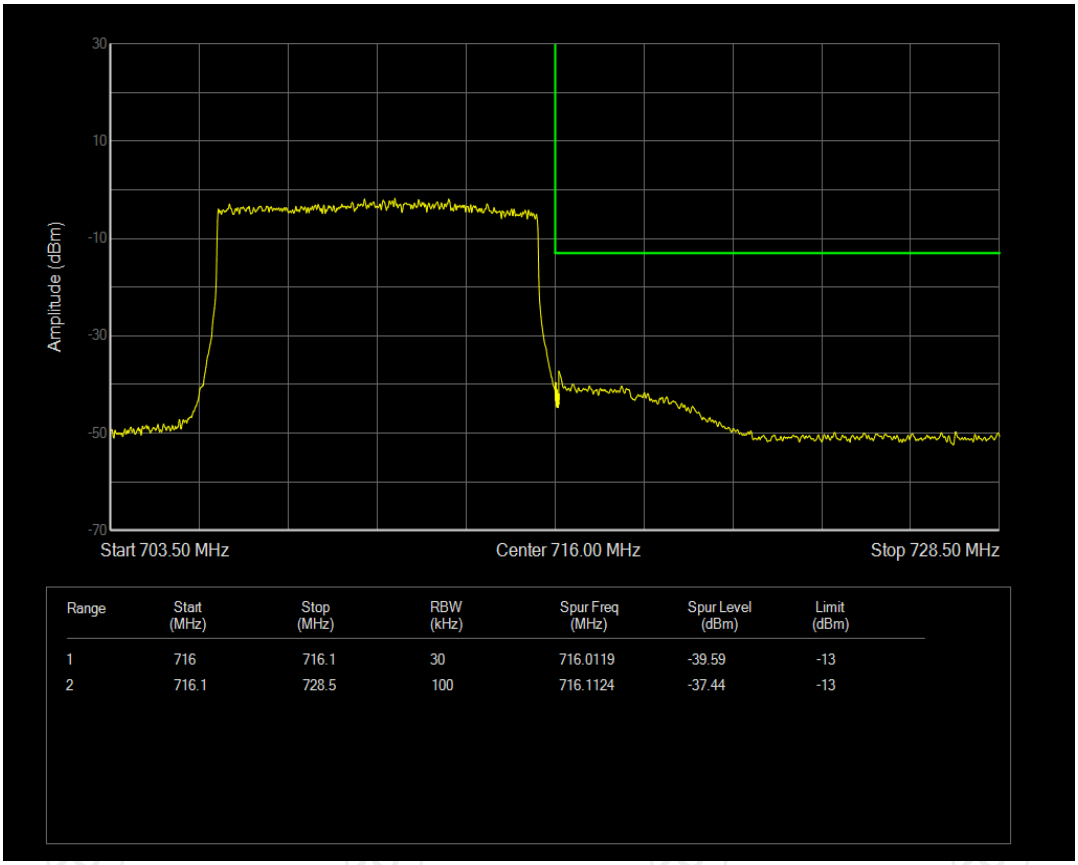
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698.9	100	698.8876	-36.48	-13
2	698.9	699	30	698.9893	-39.59	-13

Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0214	-39.21	-13
2	716.1	728.5	100	716.224	-38.43	-13

Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0

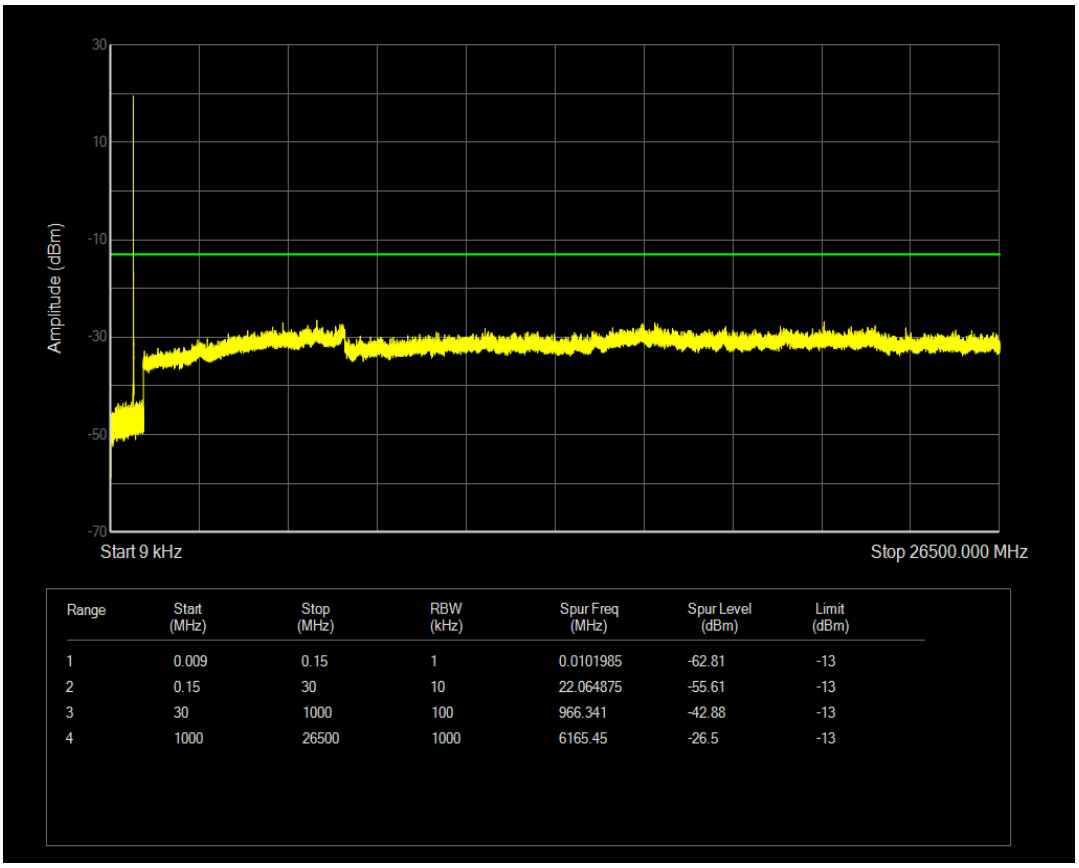


6 Out-of-band emissions

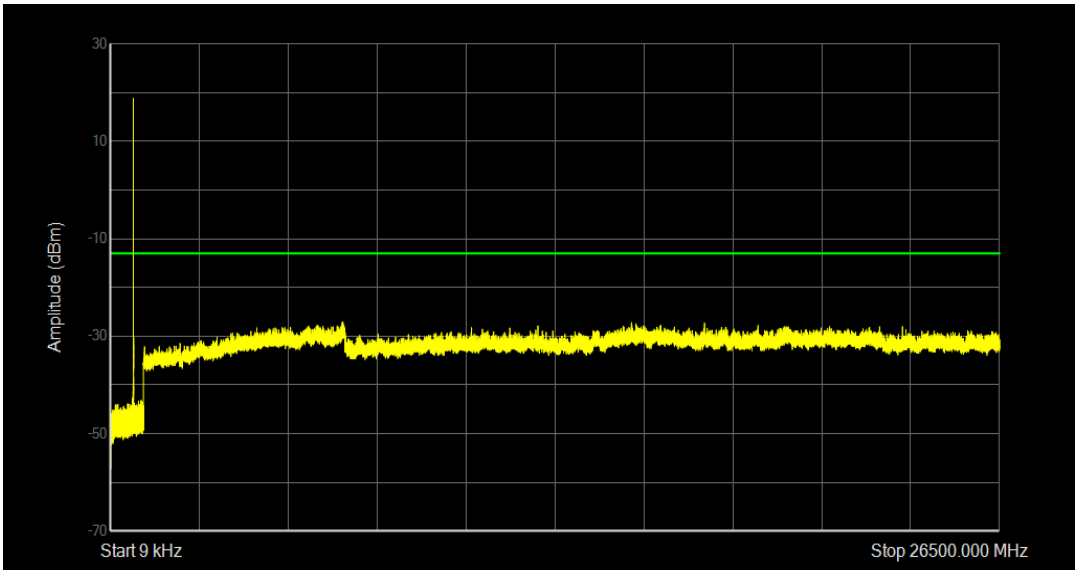
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	1.4	23017	6	#0	QPSK	6165.45	-26.50	-13	PASS
Band12	1.4	23017	6	#0	QAM16	6929.60	-27.03	-13	PASS
Band12	1.4	23095	6	#0	QPSK	16501.45	-27.11	-13	PASS
Band12	1.4	23095	6	#0	QAM16	6960.20	-26.89	-13	PASS
Band12	1.4	23173	6	#0	QPSK	6905.80	-26.96	-13	PASS
Band12	1.4	23173	6	#0	QAM16	6113.60	-26.72	-13	PASS
Band12	3	23025	15	#0	QPSK	16659.55	-26.64	-13	PASS
Band12	3	23025	15	#0	QAM16	20225.30	-26.64	-13	PASS
Band12	3	23095	15	#0	QPSK	15467.00	-26.59	-13	PASS
Band12	3	23095	15	#0	QAM16	15460.20	-26.69	-13	PASS
Band12	3	23165	15	#0	QPSK	6974.65	-26.09	-13	PASS
Band12	3	23165	15	#0	QAM16	16700.35	-26.32	-13	PASS
Band12	5	23035	25	#0	QPSK	6910.90	-27.16	-13	PASS
Band12	5	23035	25	#0	QAM16	6189.25	-27.05	-13	PASS
Band12	5	23095	25	#0	QPSK	6956.80	-26.24	-13	PASS
Band12	5	23095	25	#0	QAM16	15769.60	-26.52	-13	PASS
Band12	5	23155	25	#0	QPSK	6198.60	-26.48	-13	PASS

Band12	5	23155	25	#0	QAM16	20185.35	-26.36	-13	PASS
Band12	10	23060	50	#0	QPSK	6910.05	-26.92	-13	PASS
Band12	10	23060	50	#0	QAM16	6914.30	-26.20	-13	PASS
Band12	10	23095	50	#0	QPSK	6918.55	-27.05	-13	PASS
Band12	10	23095	50	#0	QAM16	6184.15	-26.87	-13	PASS
Band12	10	23130	50	#0	QPSK	20108.00	-26.76	-13	PASS
Band12	10	23130	50	#0	QAM16	6162.05	-26.33	-13	PASS

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0

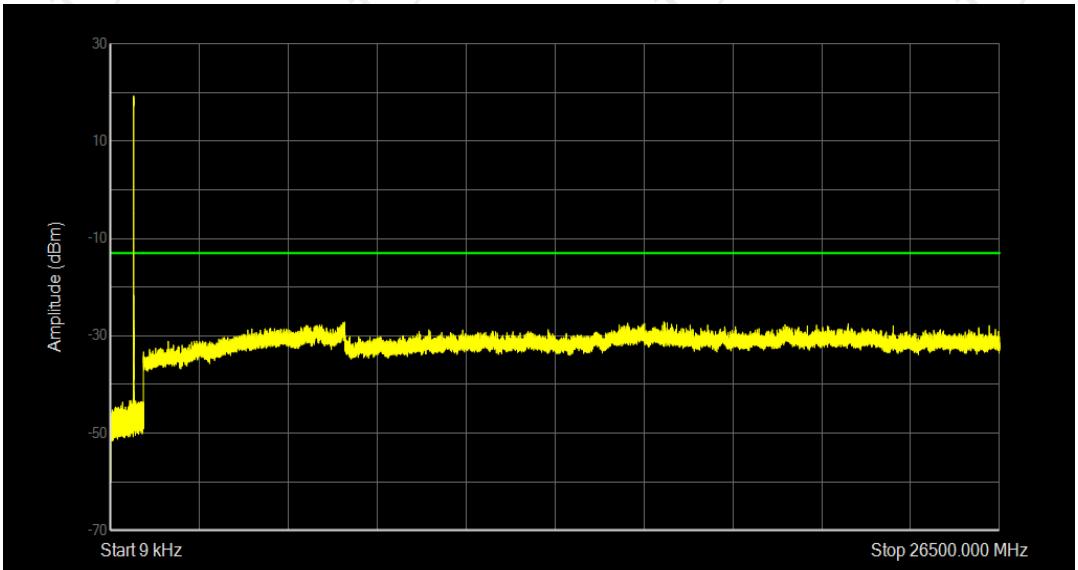


Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0



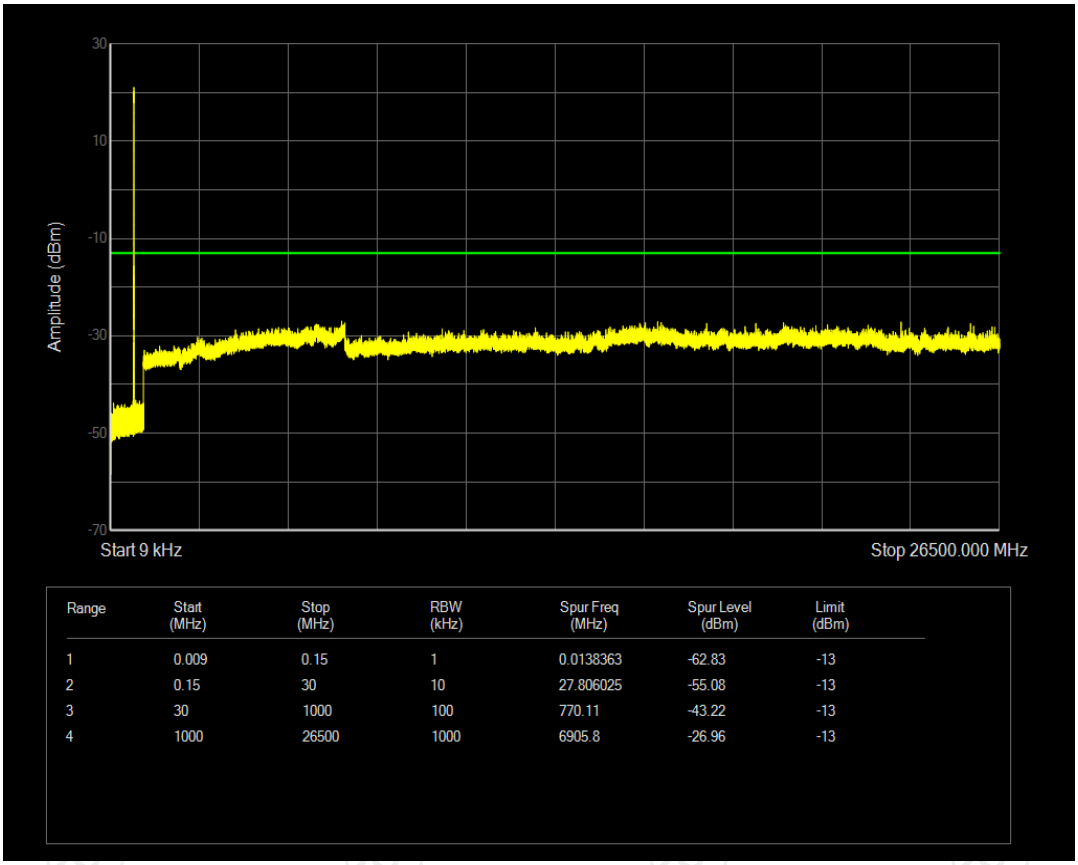
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0119422	-61.81	-13
2	0.15	30	10	27.27569	-55.45	-13
3	30	1000	100	669.812	-42.73	-13
4	1000	26500	1000	6929.6	-27.03	-13

Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0



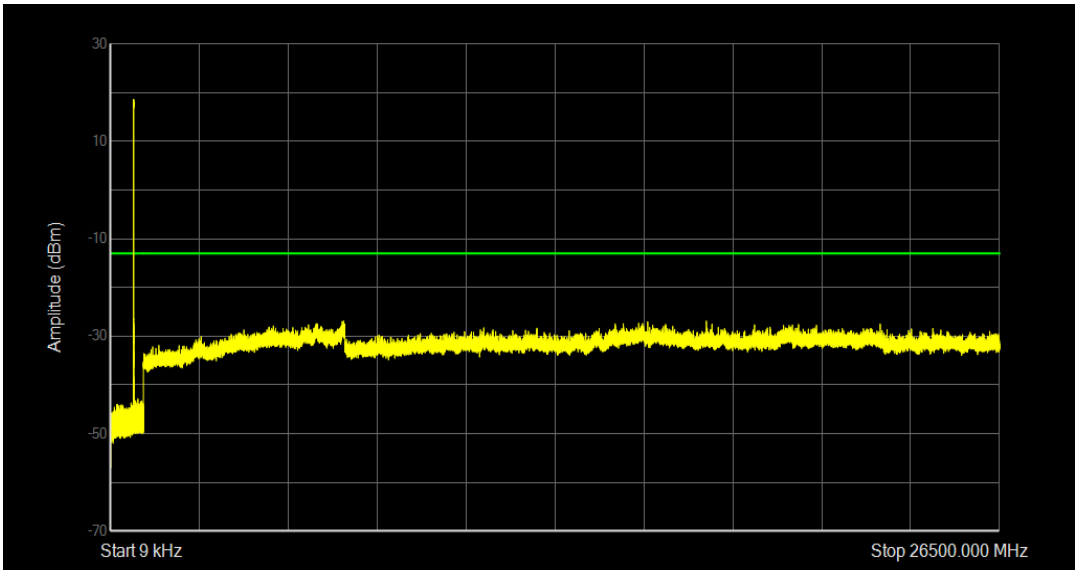
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0093196	-61.33	-13
2	0.15	30	10	27.98811	-55.79	-13
3	30	1000	100	594.216666666667	-43.33	-13
4	1000	26500	1000	16501.45	-27.11	-13

Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0



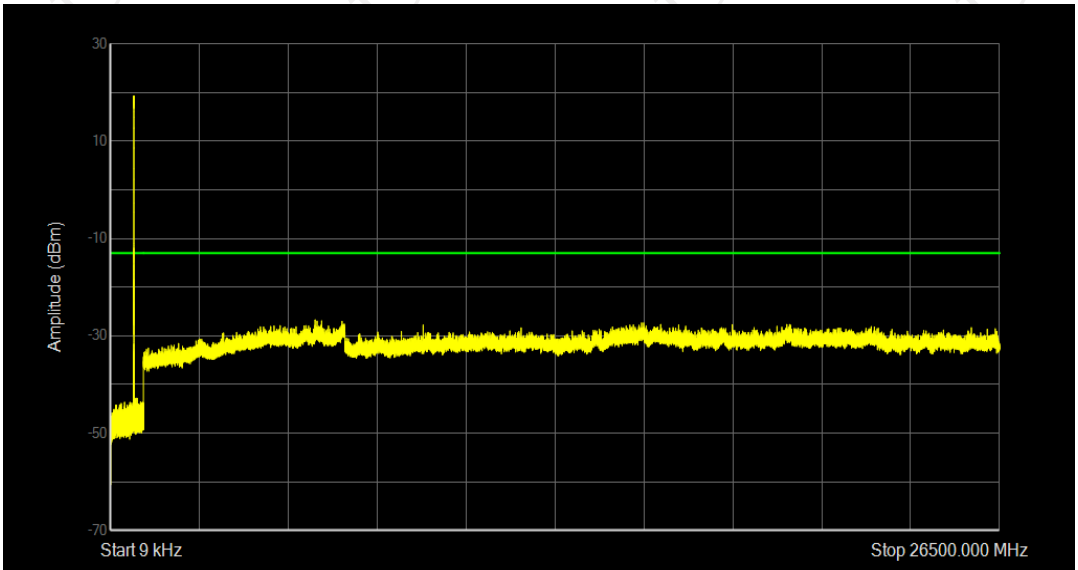
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0138363	-62.83	-13
2	0.15	30	10	27.806025	-55.08	-13
3	30	1000	100	770.11	-43.22	-13
4	1000	26500	1000	6905.8	-26.96	-13

Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=6 Position=#0



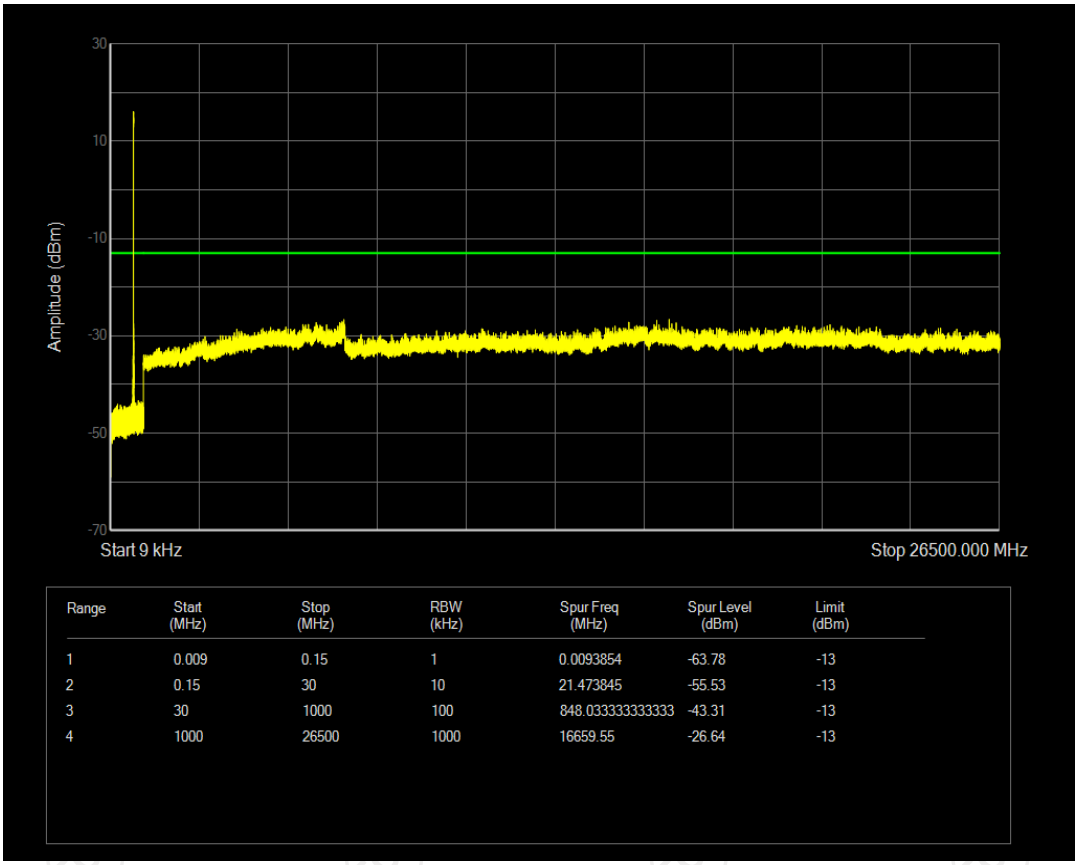
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0093149	-63.06	-13
2	0.15	30	10	29.382105	-55.61	-13
3	30	1000	100	835.294	-42.88	-13
4	1000	26500	1000	6960.2	-26.89	-13

Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0



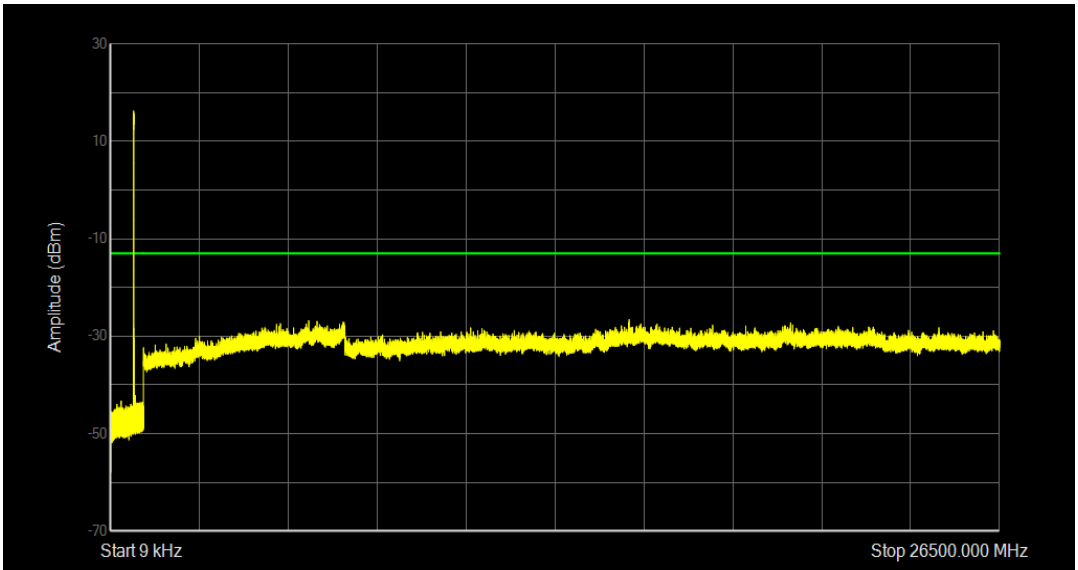
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0122665	-63.12	-13
2	0.15	30	10	28.003035	-56.07	-13
3	30	1000	100	780.165666666667	-42.81	-13
4	1000	26500	1000	6113.6	-26.72	-13

Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



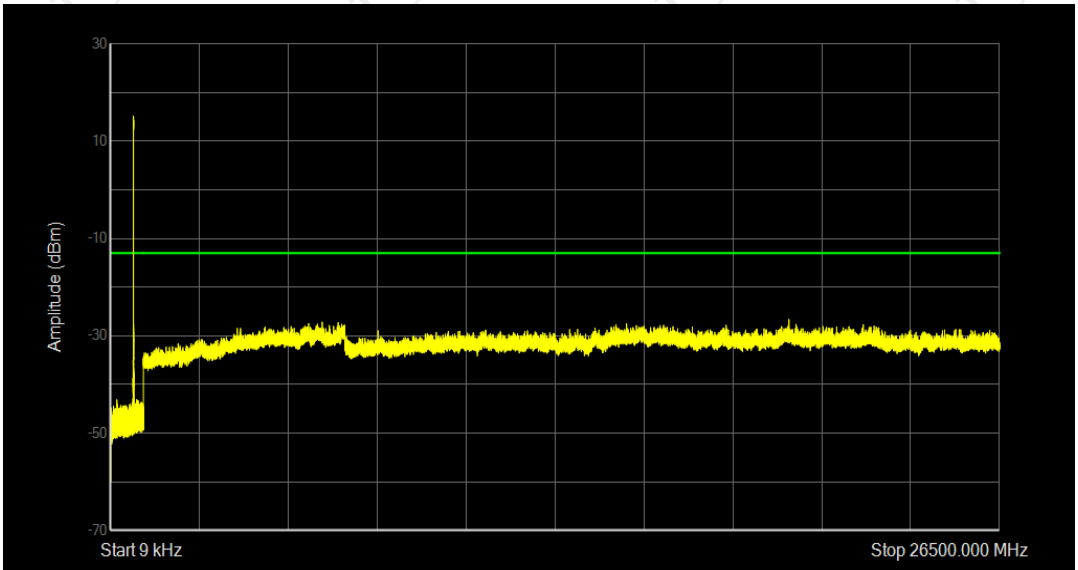
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0093854	-63.78	-13
2	0.15	30	10	21.473845	-55.53	-13
3	30	1000	100	848.033333333333	-43.31	-13
4	1000	26500	1000	16659.55	-26.64	-13

Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0



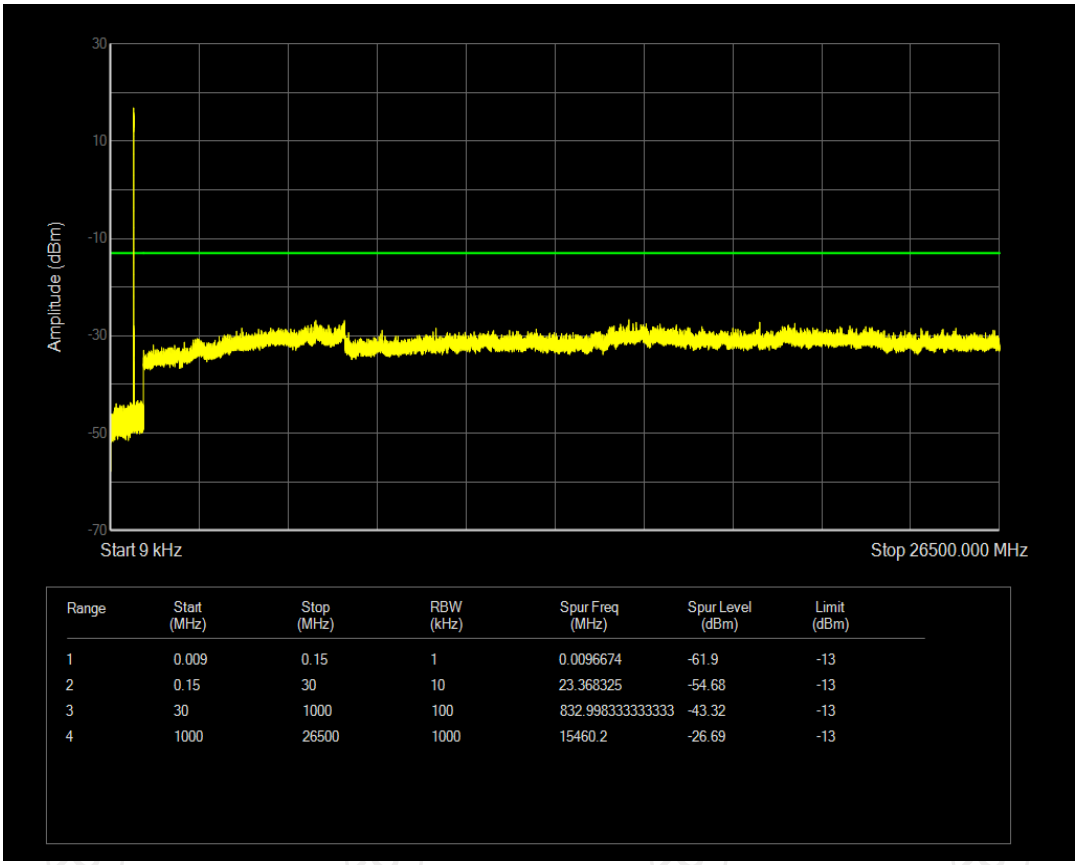
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0108283	-62.64	-13
2	0.15	30	10	29.46867	-56.35	-13
3	30	1000	100	761.056666666667	-42.19	-13
4	1000	26500	1000	15467	-26.59	-13

Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0



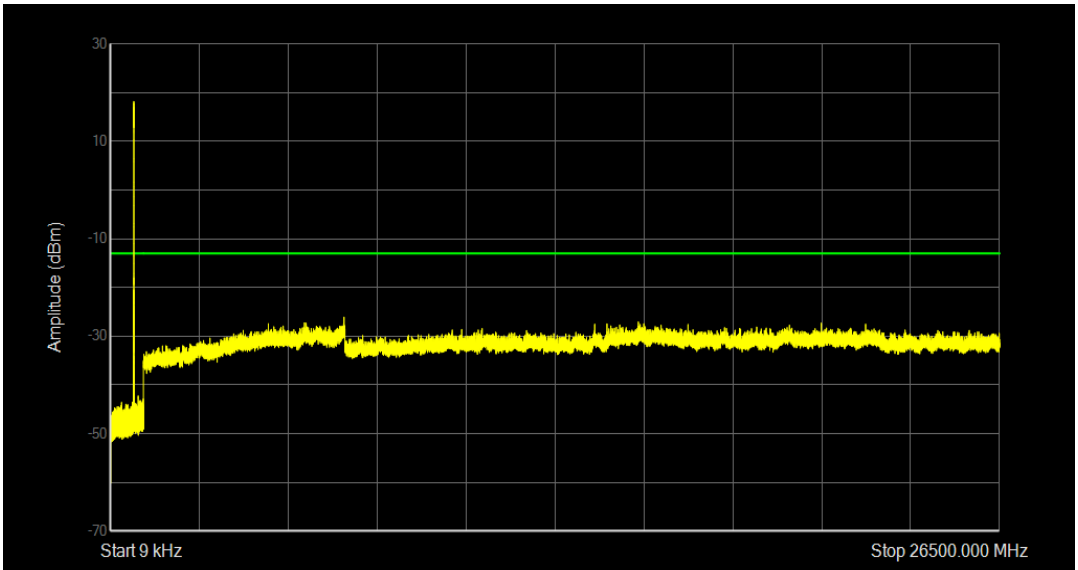
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0092726	-63.03	-13
2	0.15	30	10	23.94443	-55.16	-13
3	30	1000	100	801.085333333333	-43.09	-13
4	1000	26500	1000	20225.3	-26.64	-13

Band12 QAM16 BW=3MHz Channel=23095 RB Size=15 Position=#0



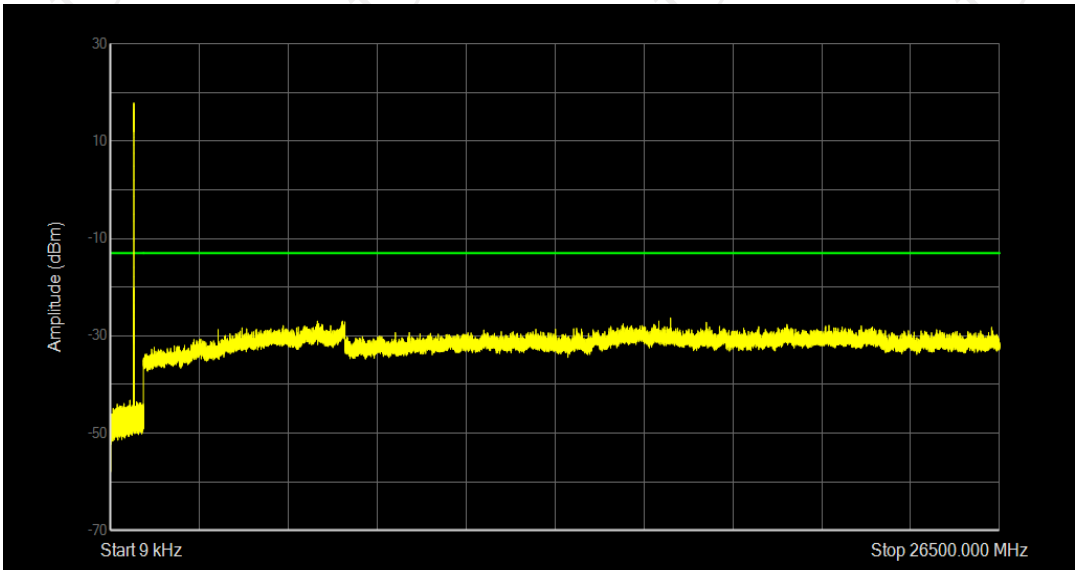
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0096674	-61.9	-13
2	0.15	30	10	23.368325	-54.68	-13
3	30	1000	100	832.998333333333	-43.32	-13
4	1000	26500	1000	15460.2	-26.69	-13

Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0



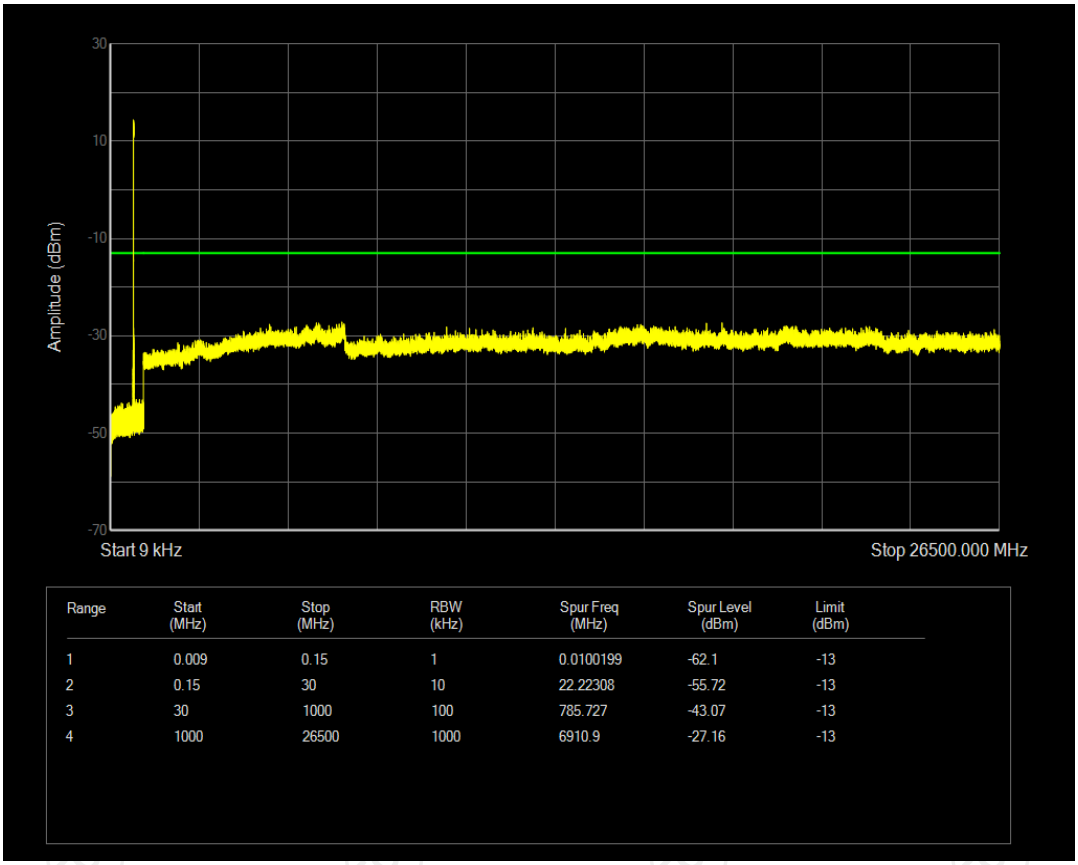
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0100105	-62.37	-13
2	0.15	30	10	26.735405	-55.97	-13
3	30	1000	100	842.310333333333	-42.26	-13
4	1000	26500	1000	6974.65	-26.09	-13

Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0



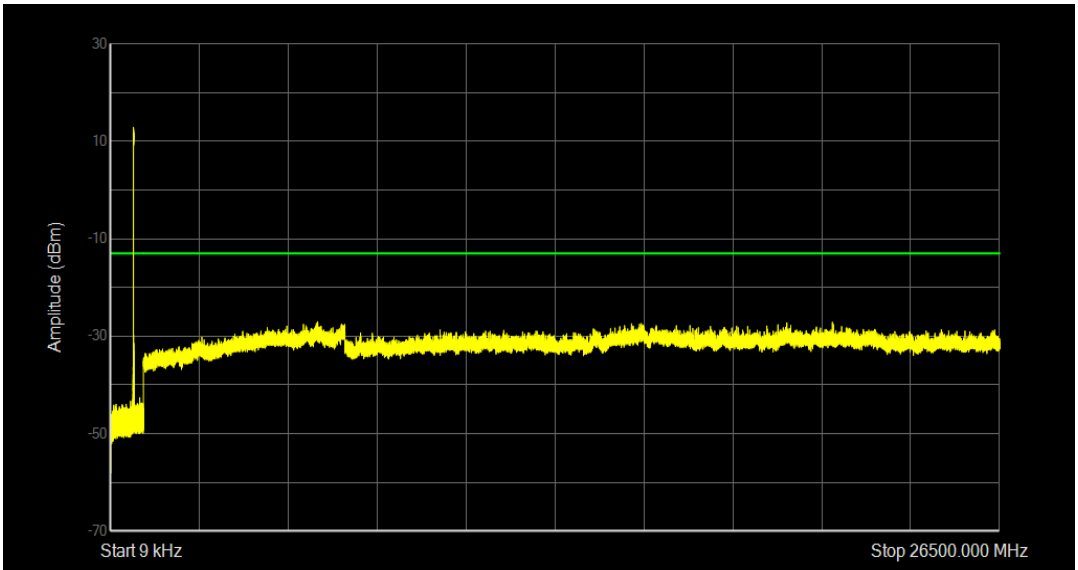
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0121208	-63.05	-13
2	0.15	30	10	25.03495	-54.63	-13
3	30	1000	100	598.161333333333	-43.23	-13
4	1000	26500	1000	16700.35	-26.32	-13

Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



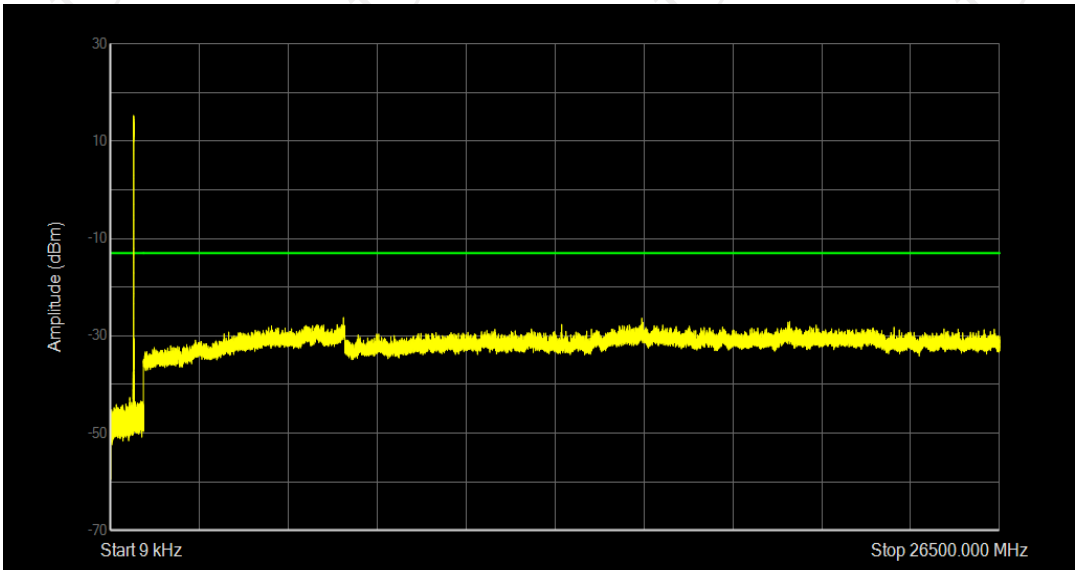
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0100199	-62.1	-13
2	0.15	30	10	22.22308	-55.72	-13
3	30	1000	100	785.727	-43.07	-13
4	1000	26500	1000	6910.9	-27.16	-13

Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0



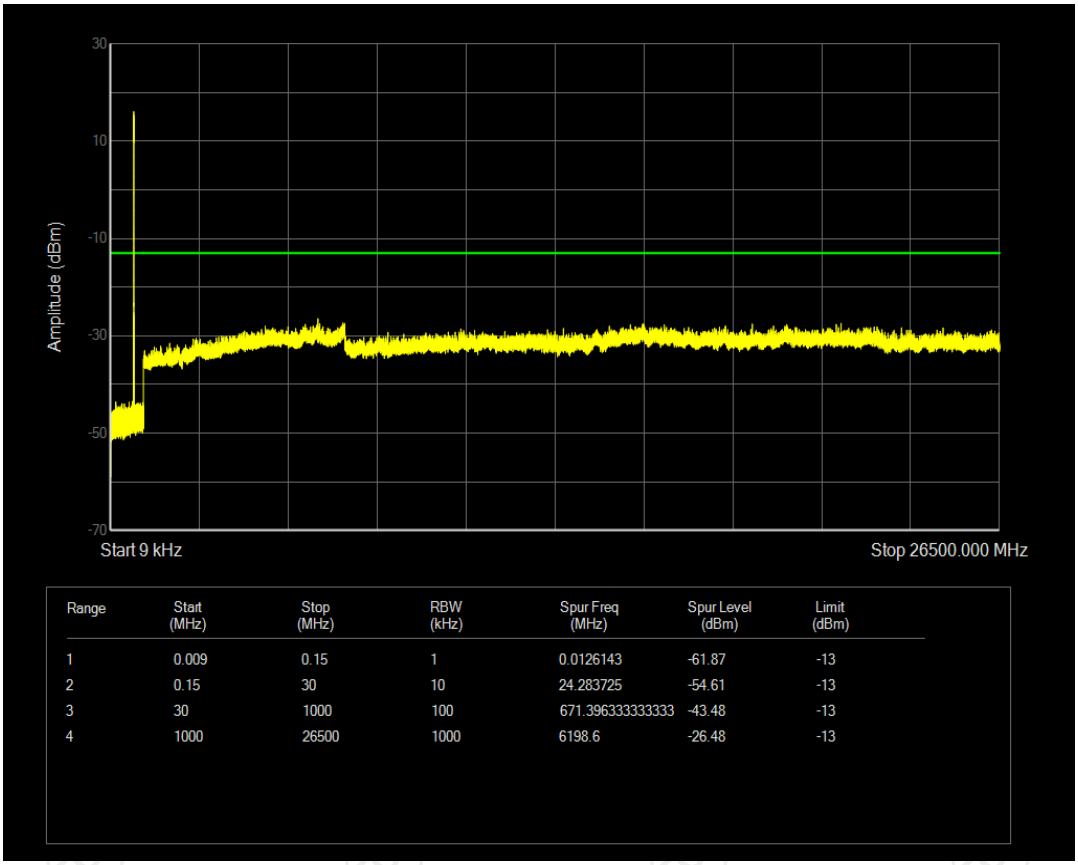
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-62.21	-13
2	0.15	30	10	27.270715	-55.83	-13
3	30	1000	100	891.748	-42.61	-13
4	1000	26500	1000	6189.25	-27.05	-13

Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0



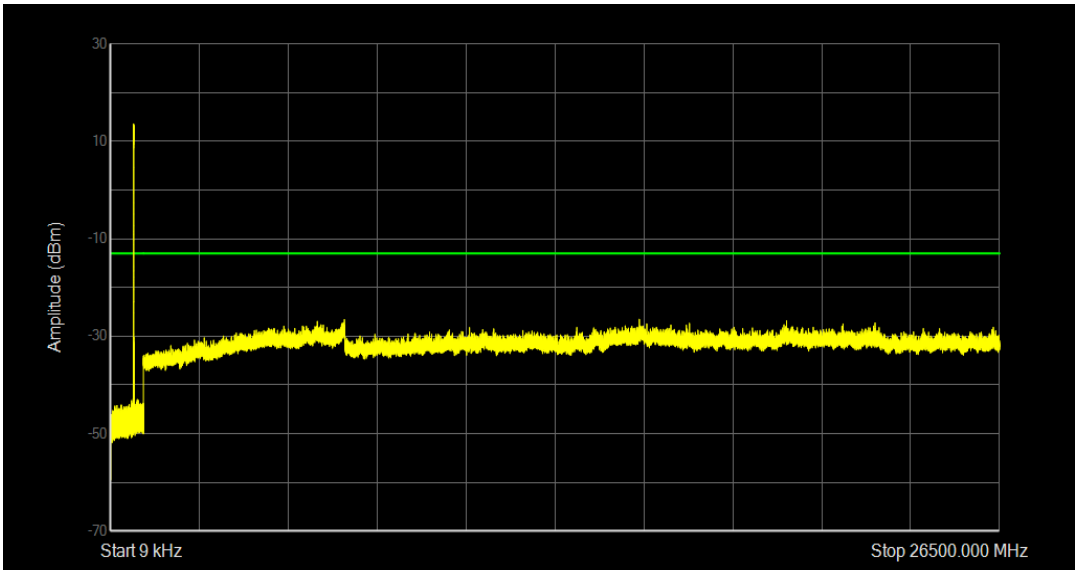
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0122101	-61.59	-13
2	0.15	30	10	29.89055	-55.49	-13
3	30	1000	100	591.985666666667	-42.68	-13
4	1000	26500	1000	6956.8	-26.24	-13

Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0



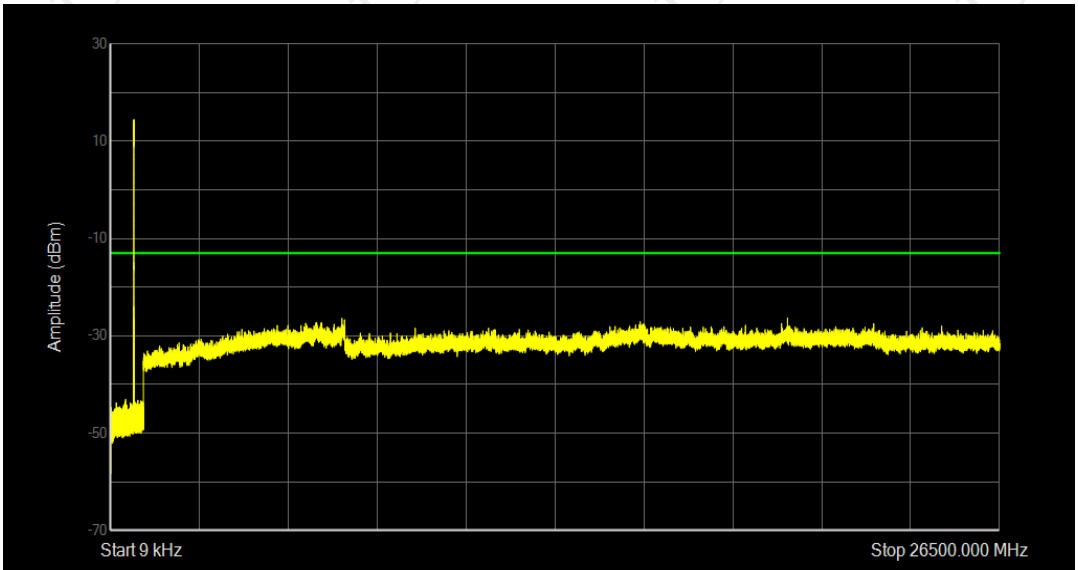
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0126143	-61.87	-13
2	0.15	30	10	24.283725	-54.61	-13
3	30	1000	100	671.396333333333	-43.48	-13
4	1000	26500	1000	6198.6	-26.48	-13

Band12 QAM16 BW=5MHz Channel=23095 RB Size=25 Position=#0



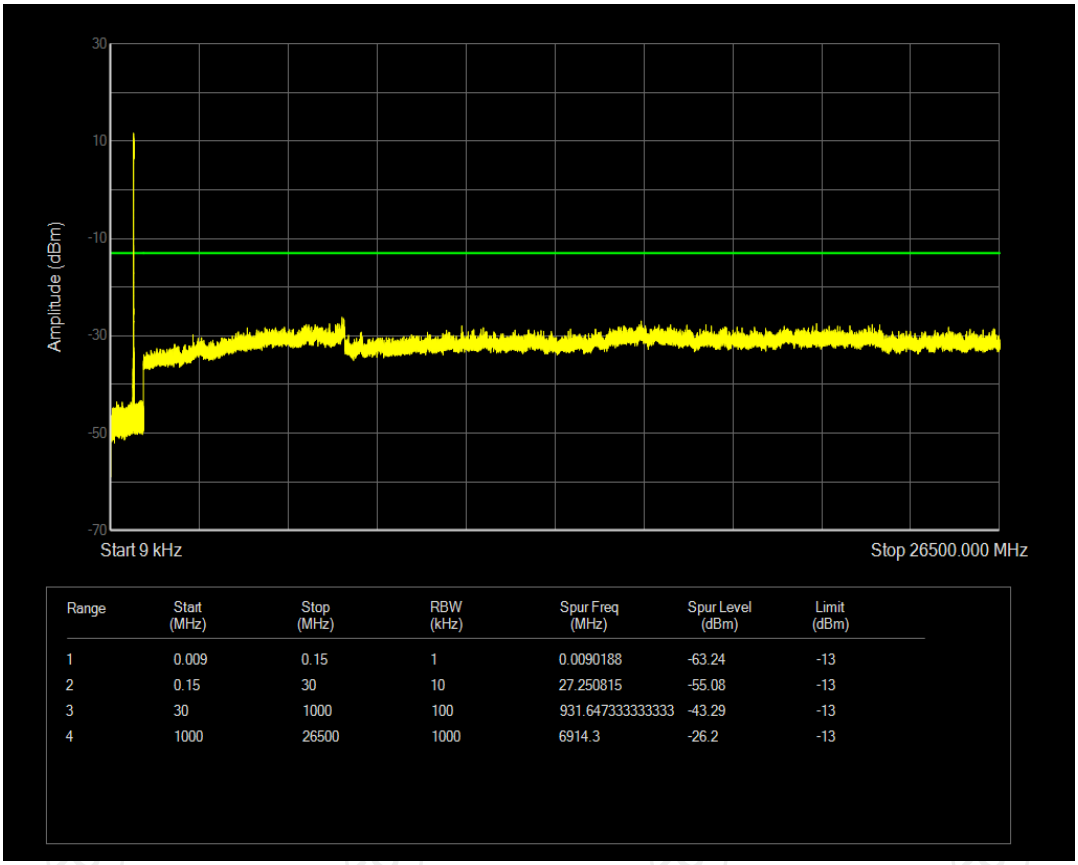
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0104711	-62.7	-13
2	0.15	30	10	26.79809	-56.23	-13
3	30	1000	100	815.053333333333	-42.99	-13
4	1000	26500	1000	15769.6	-26.52	-13

Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0



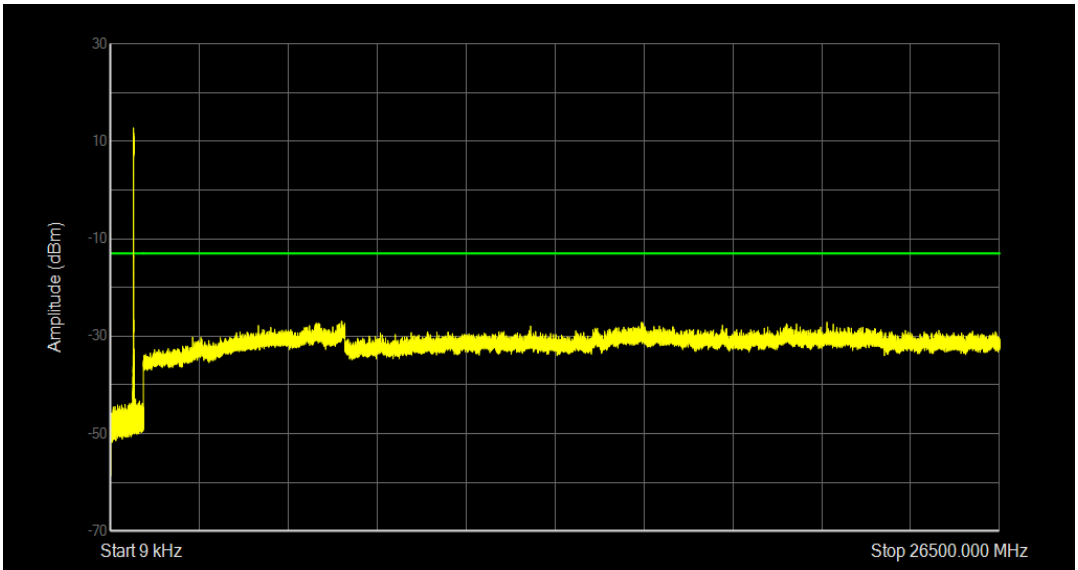
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0092162	-62.06	-13
2	0.15	30	10	26.944355	-55.91	-13
3	30	1000	100	467.47	-43.04	-13
4	1000	26500	1000	20185.35	-26.36	-13

Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0



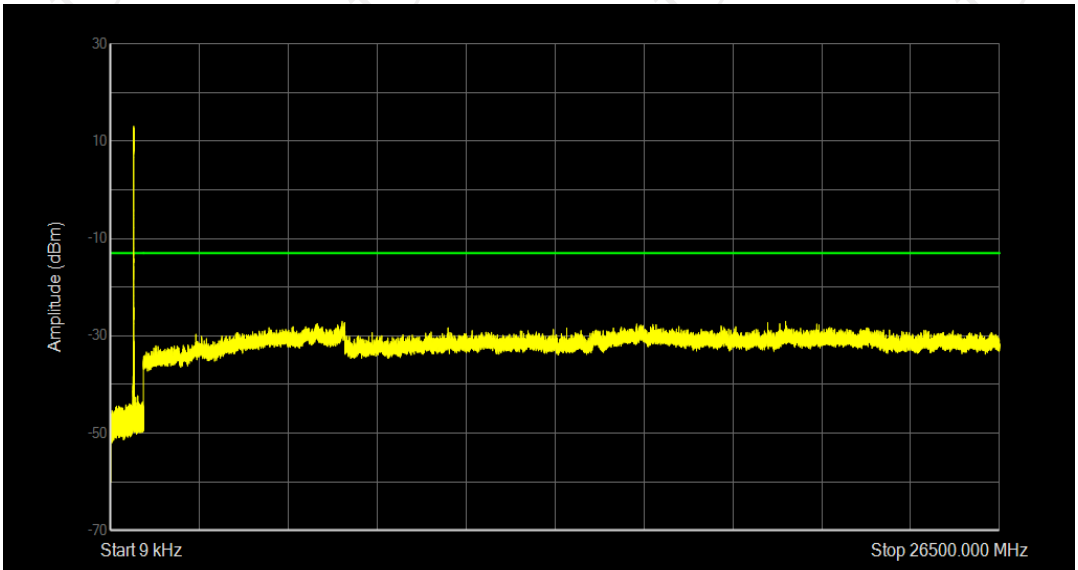
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0090188	-63.24	-13
2	0.15	30	10	27.250815	-55.08	-13
3	30	1000	100	931.647333333333	-43.29	-13
4	1000	26500	1000	6914.3	-26.2	-13

Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



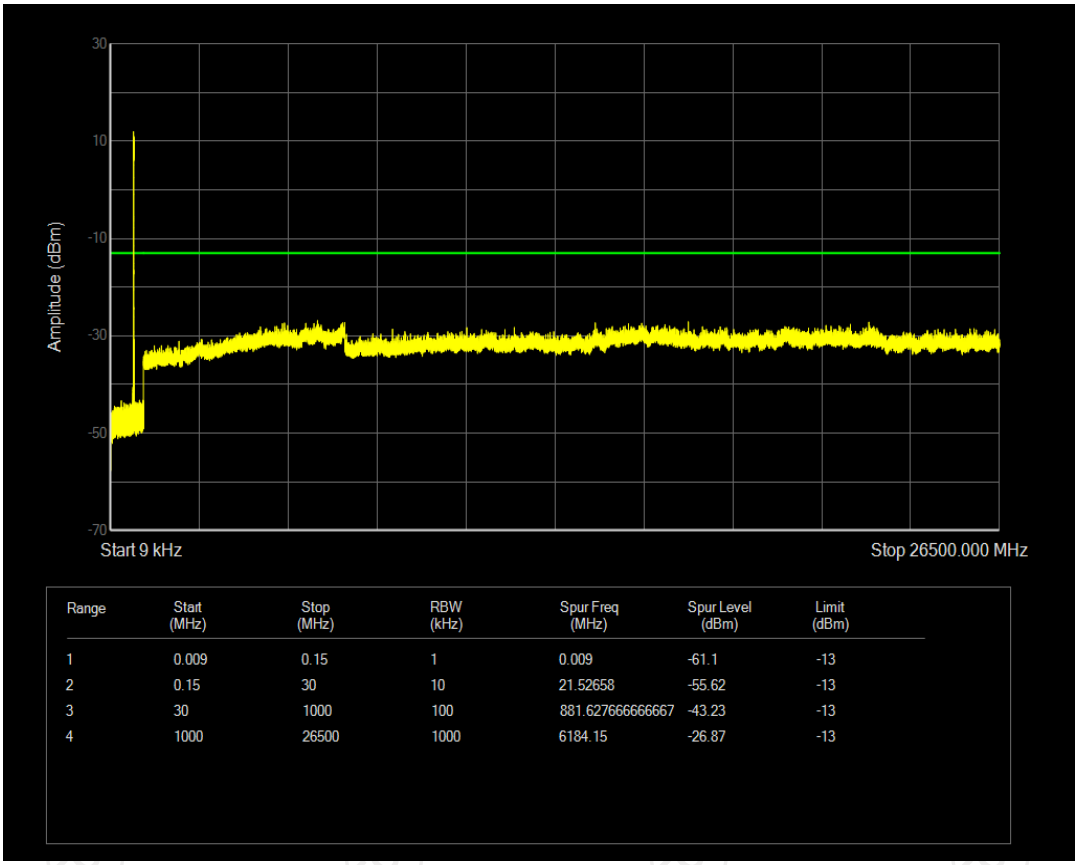
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0113453	-63.81	-13
2	0.15	30	10	23.843935	-55.91	-13
3	30	1000	100	765.389333333333	-42.92	-13
4	1000	26500	1000	6910.05	-26.92	-13

Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0



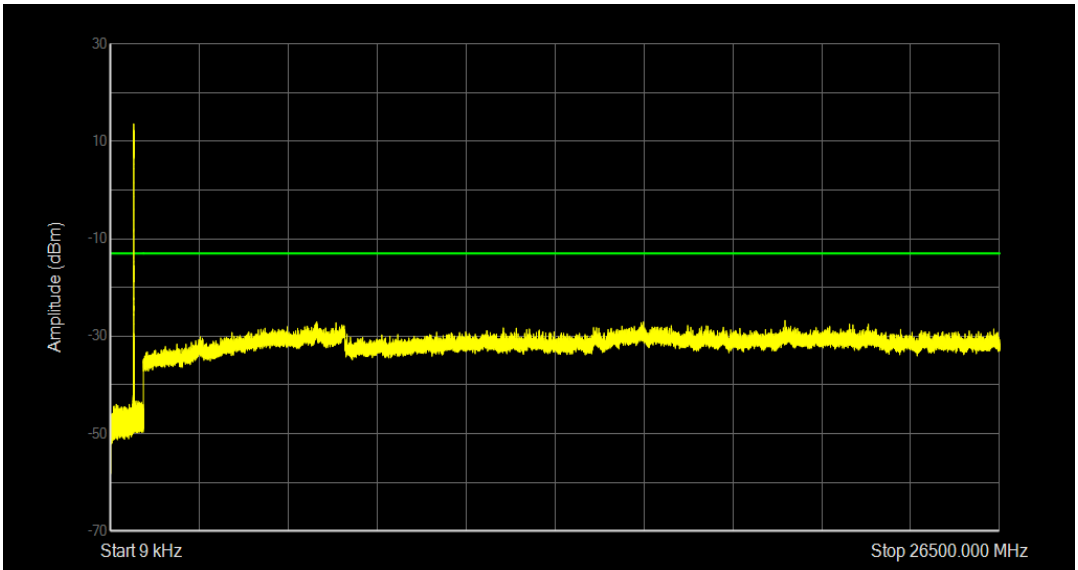
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0155706	-62.62	-13
2	0.15	30	10	21.547475	-55.58	-13
3	30	1000	100	829.700333333333	-42.32	-13
4	1000	26500	1000	6918.55	-27.05	-13

Band12 QAM16 BW=10MHz Channel=23095 RB Size=50 Position=#0



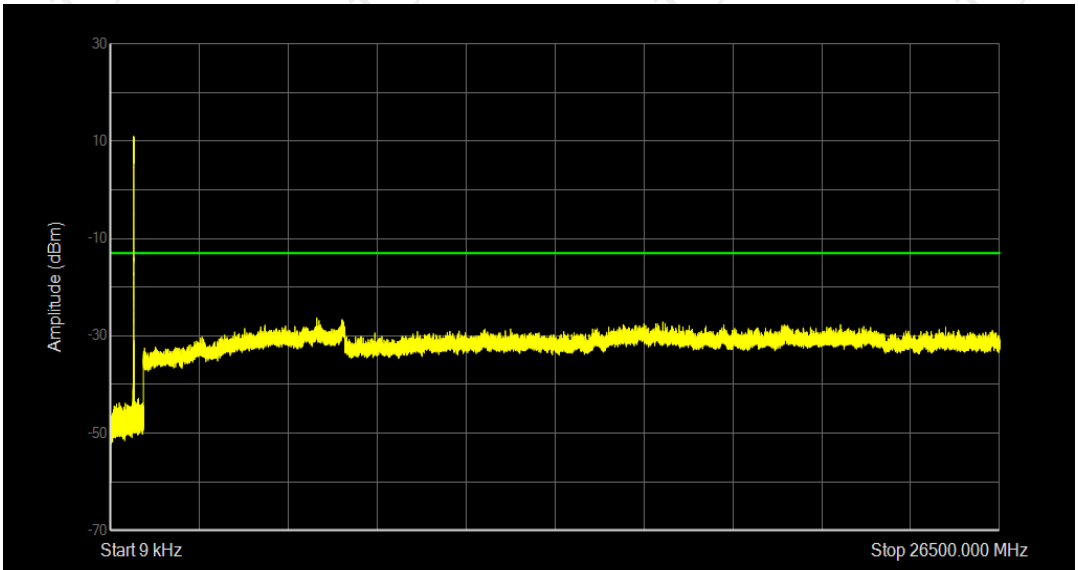
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-61.1	-13
2	0.15	30	10	21.52658	-55.62	-13
3	30	1000	100	881.627666666667	-43.23	-13
4	1000	26500	1000	6184.15	-26.87	-13

Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0097755	-61.59	-13
2	0.15	30	10	24.31656	-55.58	-13
3	30	1000	100	778.322666666667	-43.31	-13
4	1000	26500	1000	20108	-26.76	-13

Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0113829	-63.07	-13
2	0.15	30	10	21.59225	-55.95	-13
3	30	1000	100	853.918	-42.89	-13
4	1000	26500	1000	6162.05	-26.33	-13