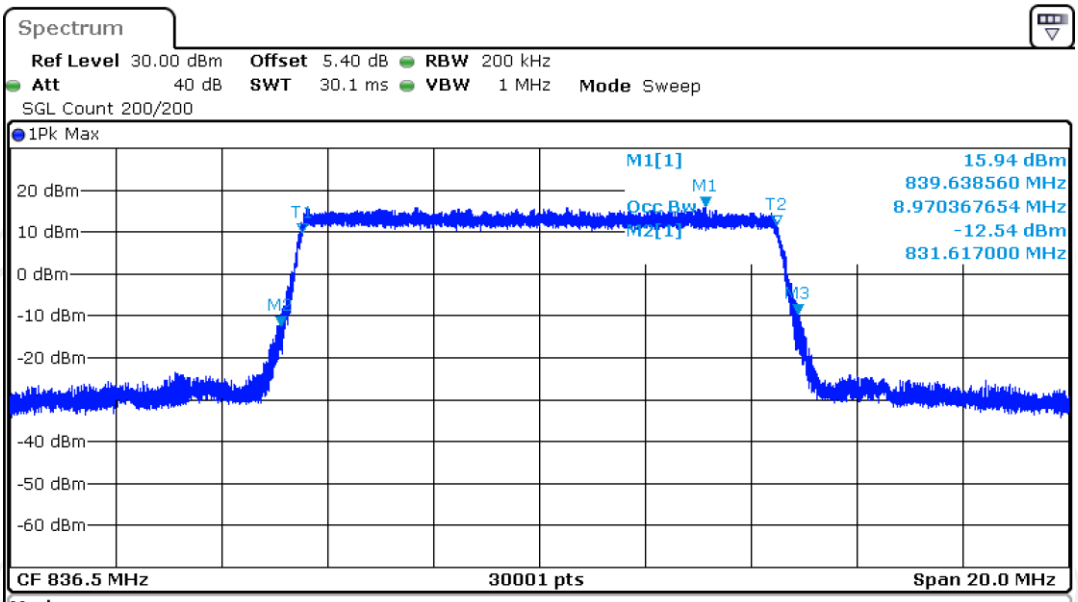
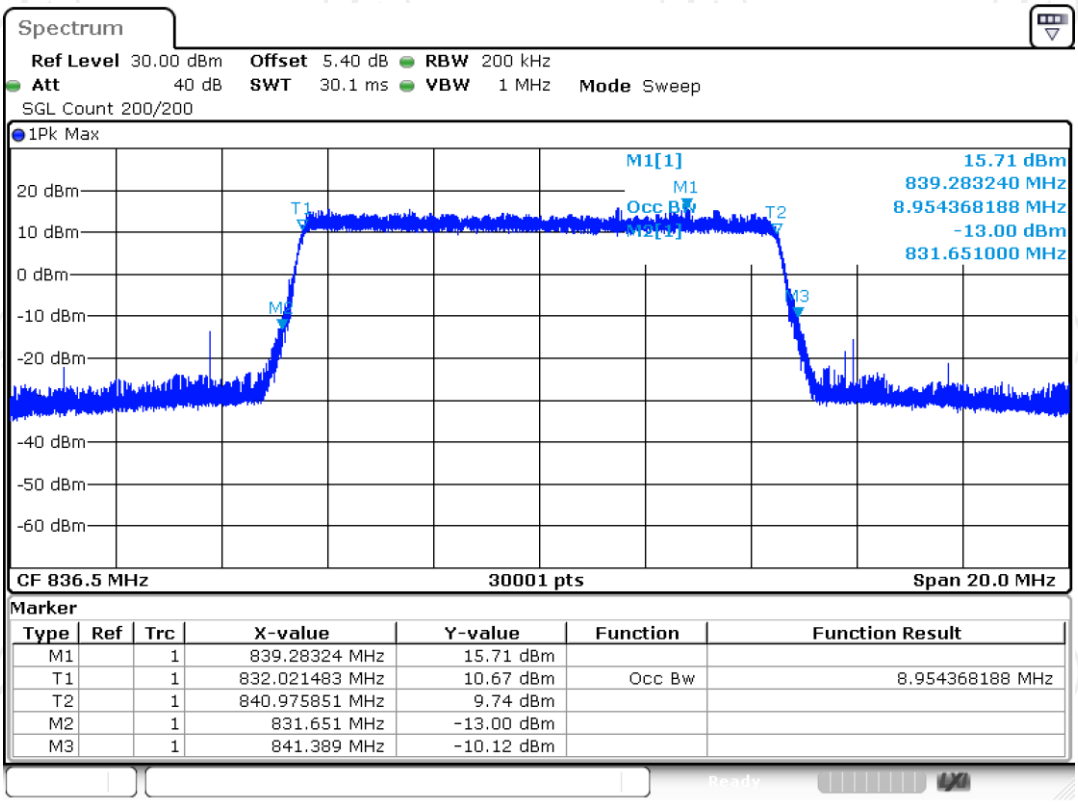


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	839.63856 MHz	15.94 dBm		
T1		1	832.012816 MHz	9.84 dBm	Occ Bw	8.970367654 MHz
T2		1	840.983184 MHz	11.49 dBm		
M2		1	831.617 MHz	-12.54 dBm		
M3		1	841.389 MHz	-9.67 dBm		

Date: 7.SEP.2023 14:11:15

Band5 16QAM BW=10MHz Channel=20525 RB Size=50 Position=#0

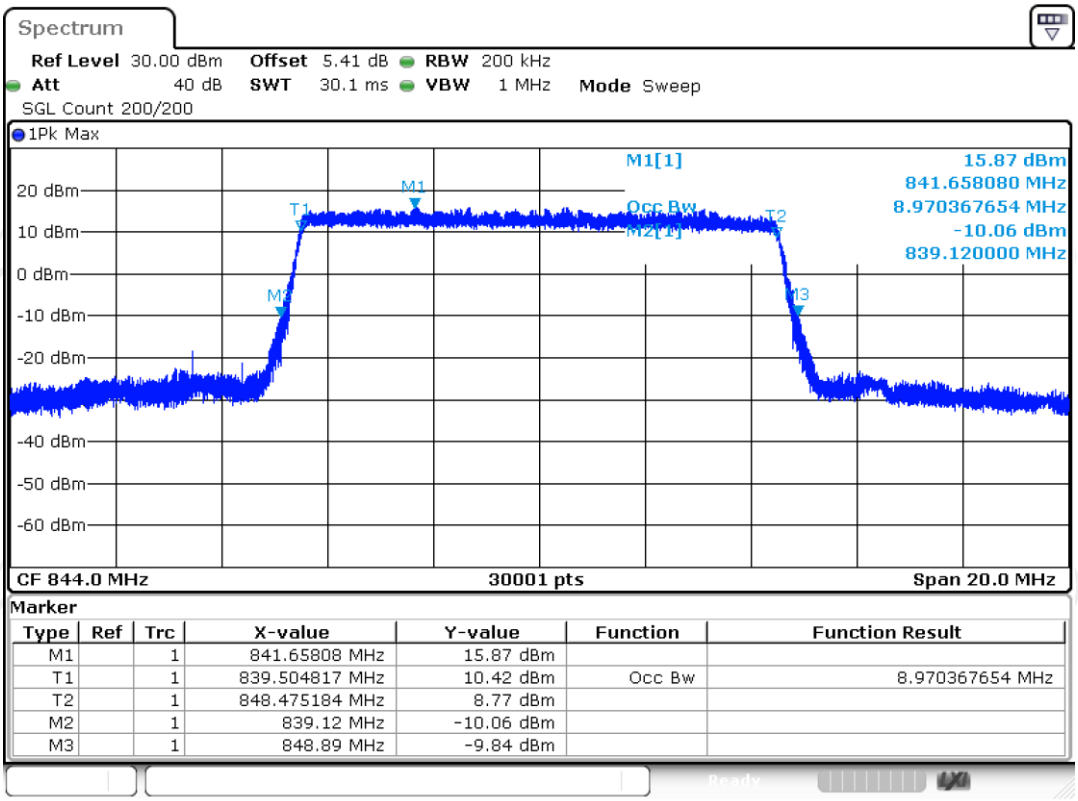


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	839.28324 MHz	15.71 dBm		
T1		1	832.021483 MHz	10.67 dBm	Occ Bw	8.954368188 MHz
T2		1	840.975851 MHz	9.74 dBm		
M2		1	831.651 MHz	-13.00 dBm		
M3		1	841.389 MHz	-10.12 dBm		

Date: 7.SEP.2023 14:11:32

Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0

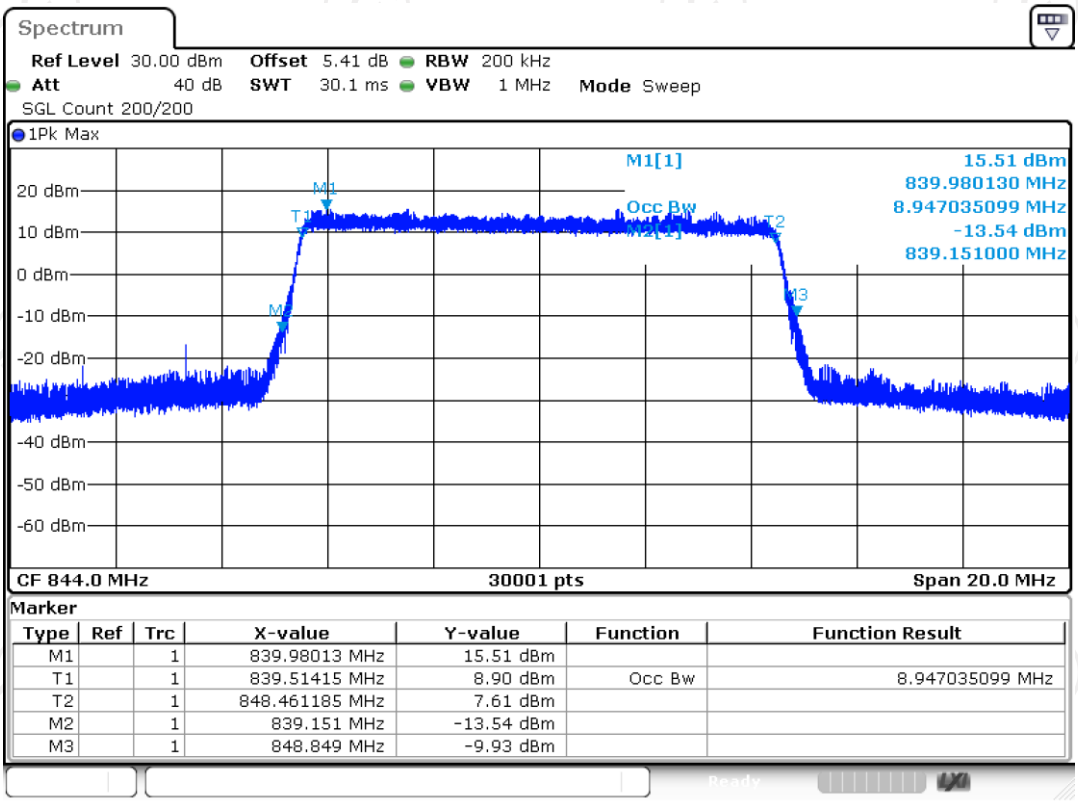


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	841.65808 MHz	15.87 dBm		
T1		1	839.504817 MHz	10.42 dBm	Occ Bw	8.970367654 MHz
T2		1	848.475184 MHz	8.77 dBm		
M2		1	839.12 MHz	-10.06 dBm		
M3		1	848.89 MHz	-9.84 dBm		

Date: 7.SEP.2023 14:11:51

Band5 16QAM BW=10MHz Channel=20600 RB Size=50 Position=#0



Marker

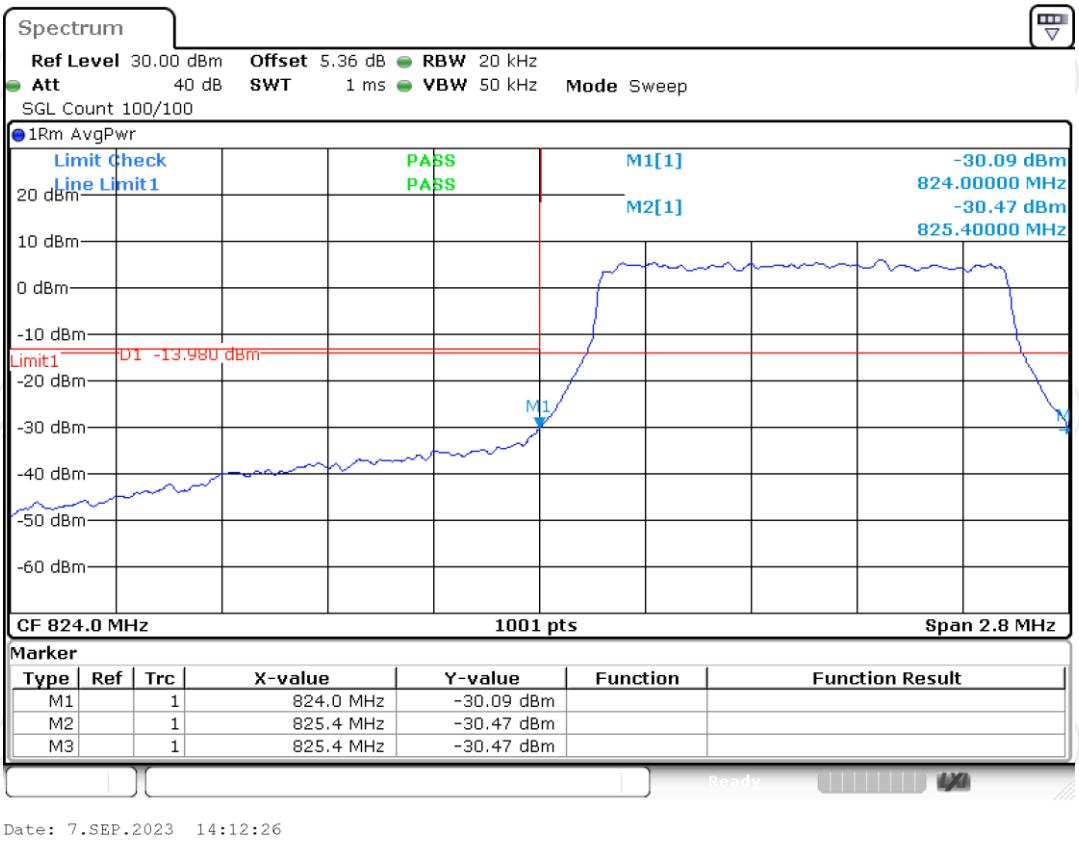
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	839.98013 MHz	15.51 dBm		
T1		1	839.51415 MHz	8.90 dBm	Occ Bw	8.947035099 MHz
T2		1	848.461185 MHz	7.61 dBm		
M2		1	839.151 MHz	-13.54 dBm		
M3		1	848.849 MHz	-9.93 dBm		

Date: 7.SEP.2023 14:12:08

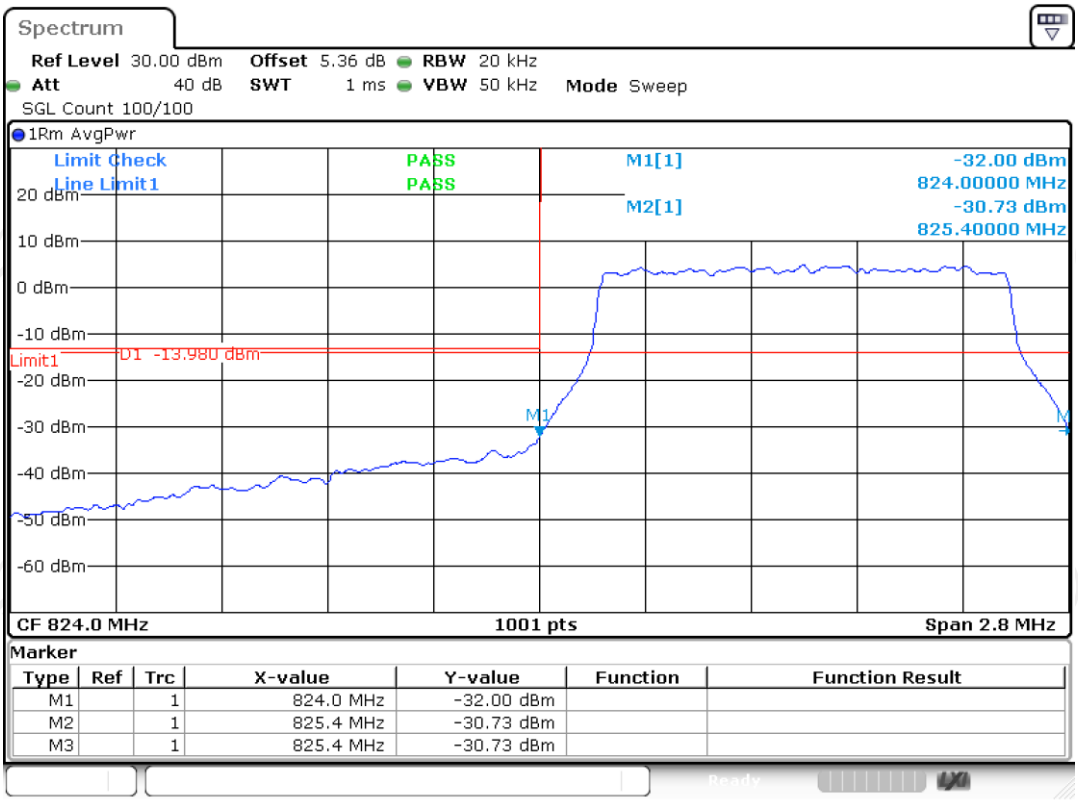
5 Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band5	1.4	20407	6	#0	QPSK	824.00	-30.09	-13	PASS
Band5	1.4	20407	6	#0	16QAM	824.00	-31.99	-13	PASS
Band5	1.4	20643	6	#0	QPSK	849.00	-32.42	-13	PASS
Band5	1.4	20643	6	#0	16QAM	849.00	-32.04	-13	PASS
Band5	3	20415	15	#0	QPSK	824.00	-34.60	-13	PASS
Band5	3	20415	15	#0	16QAM	824.00	-36.72	-13	PASS
Band5	3	20635	15	#0	QPSK	849.00	-34.18	-13	PASS
Band5	3	20635	15	#0	16QAM	849.00	-35.29	-13	PASS
Band5	5	20425	25	#0	QPSK	824.00	-33.24	-13	PASS
Band5	5	20425	25	#0	16QAM	824.00	-34.97	-13	PASS
Band5	5	20625	25	#0	QPSK	849.00	-34.50	-13	PASS
Band5	5	20625	25	#0	16QAM	849.00	-36.60	-13	PASS
Band5	10	20450	50	#0	QPSK	824.00	-34.93	-13	PASS
Band5	10	20450	50	#0	16QAM	823.98	-37.38	-13	PASS
Band5	10	20600	50	#0	QPSK	849.00	-36.02	-13	PASS
Band5	10	20600	50	#0	16QAM	849.00	-38.74	-13	PASS

Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0

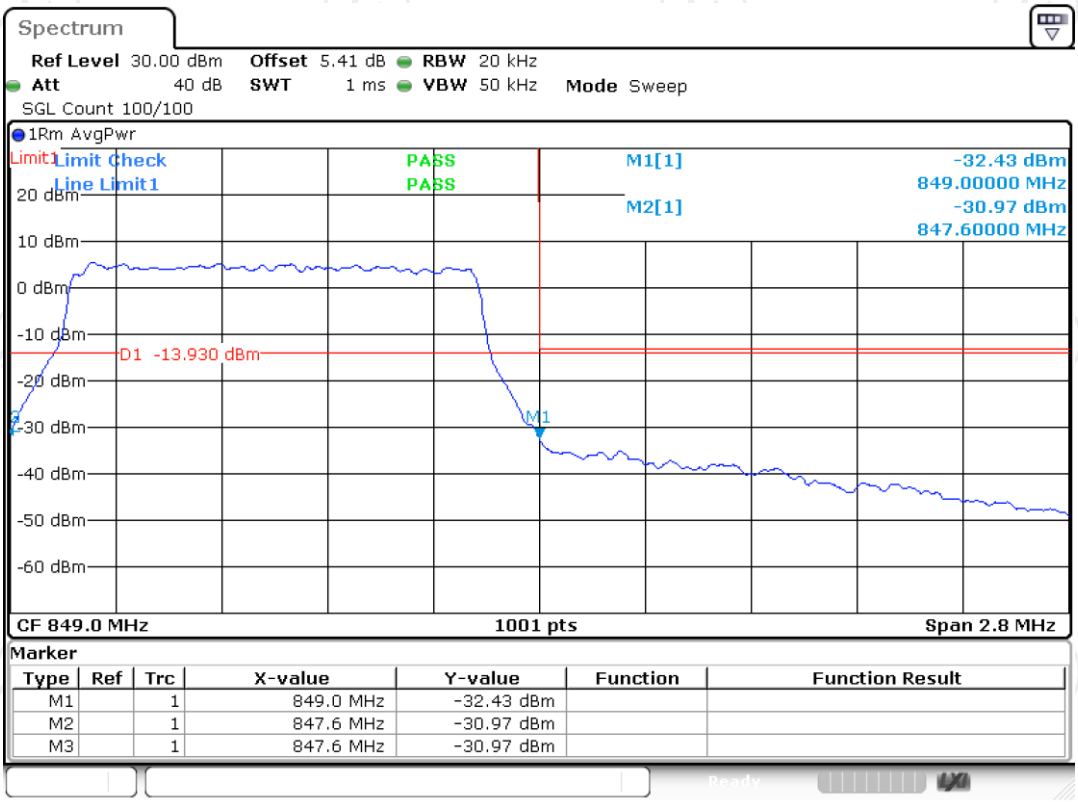


Band5 16QAM BW=1.4MHz Channel=20407 RB Size=6 Position=#0



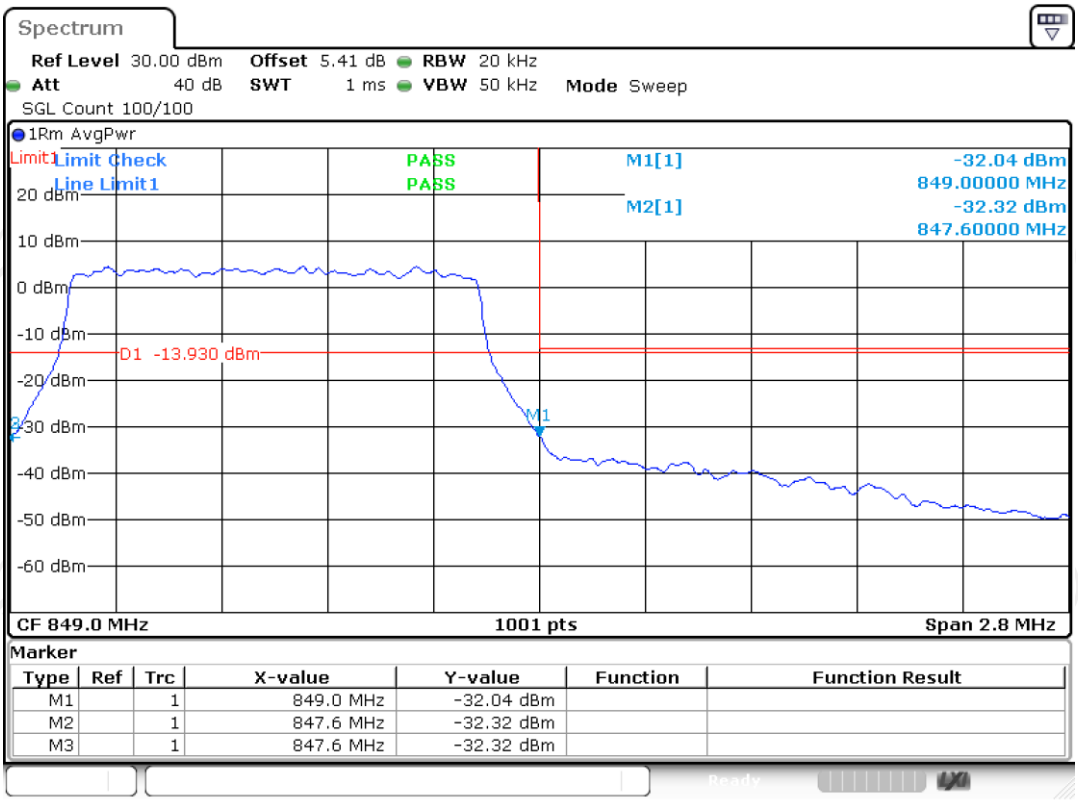
Date: 7.SEP.2023 14:12:31

Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0



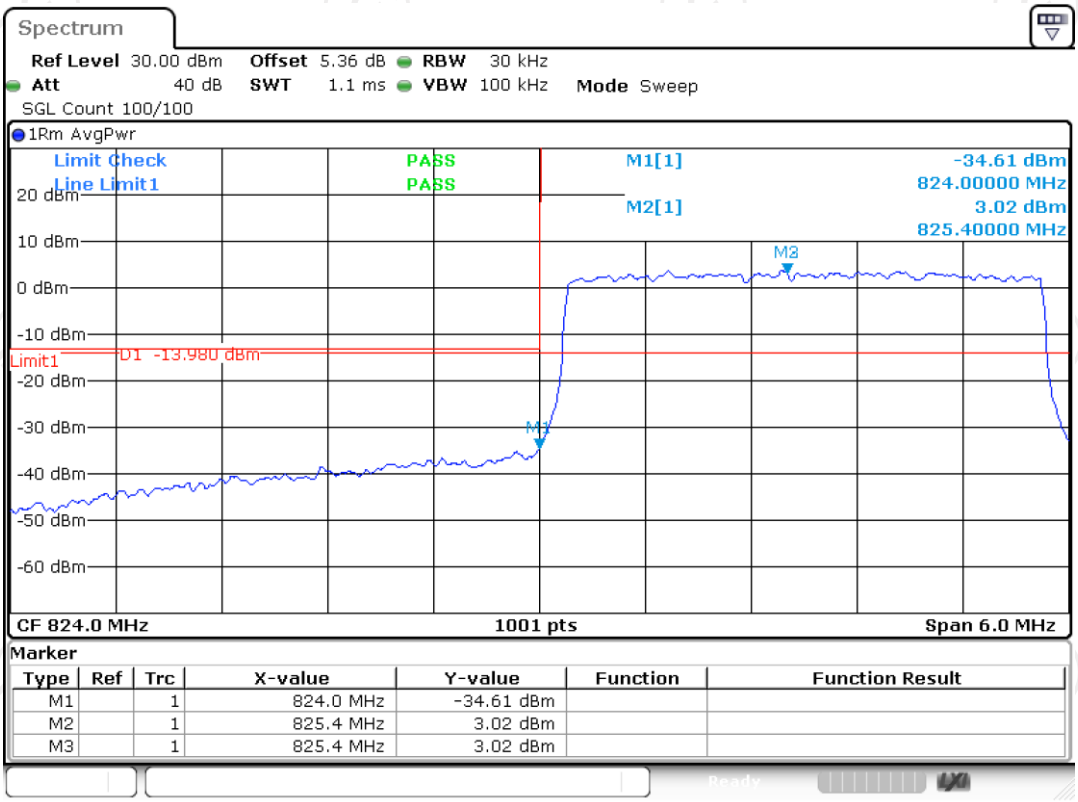
Date: 7.SEP.2023 14:12:36

Band5 16QAM BW=1.4MHz Channel=20643 RB Size=6 Position=#0



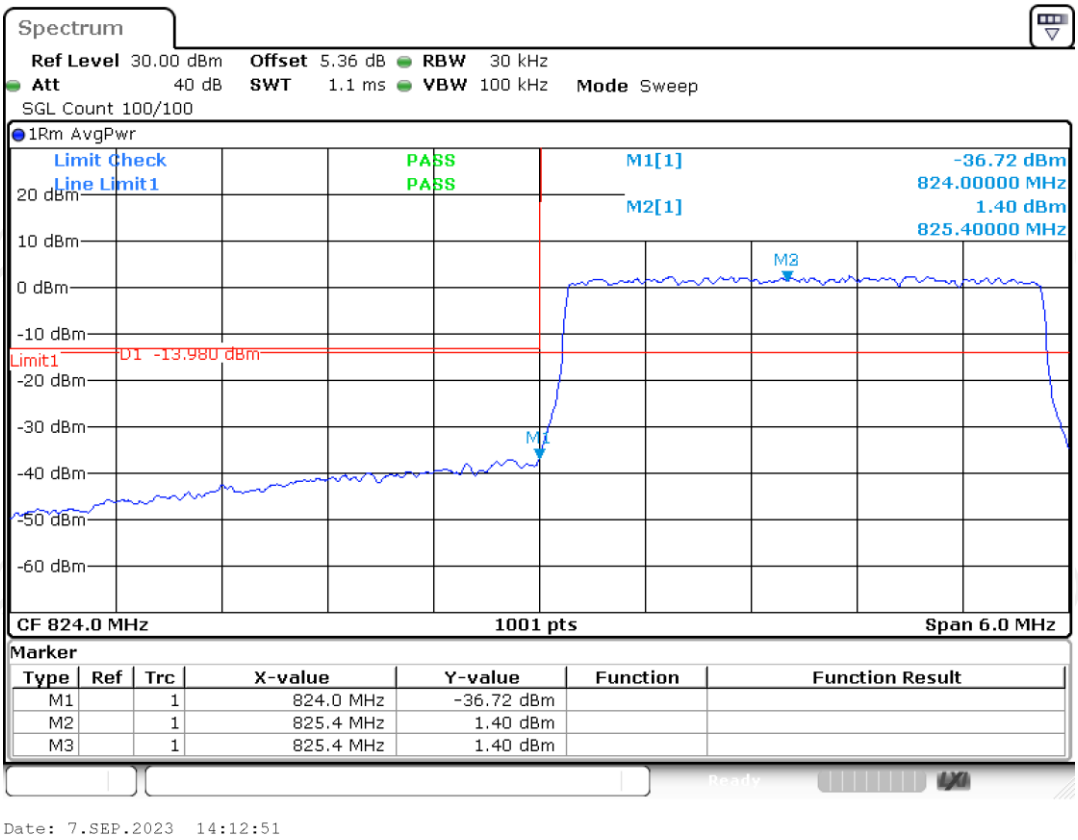
Date: 7.SEP.2023 14:12:41

Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0



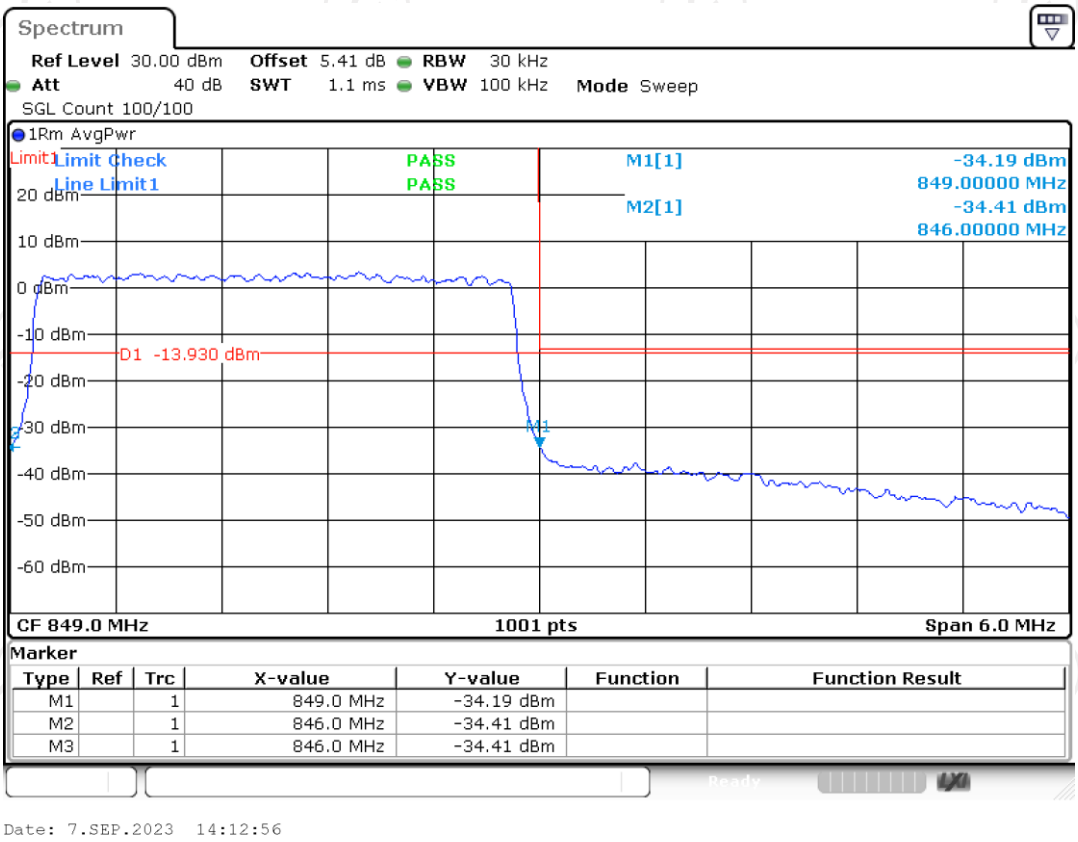
Date: 7.SEP.2023 14:12:46

Band5 16QAM BW=3MHz Channel=20415 RB Size=15 Position=#0



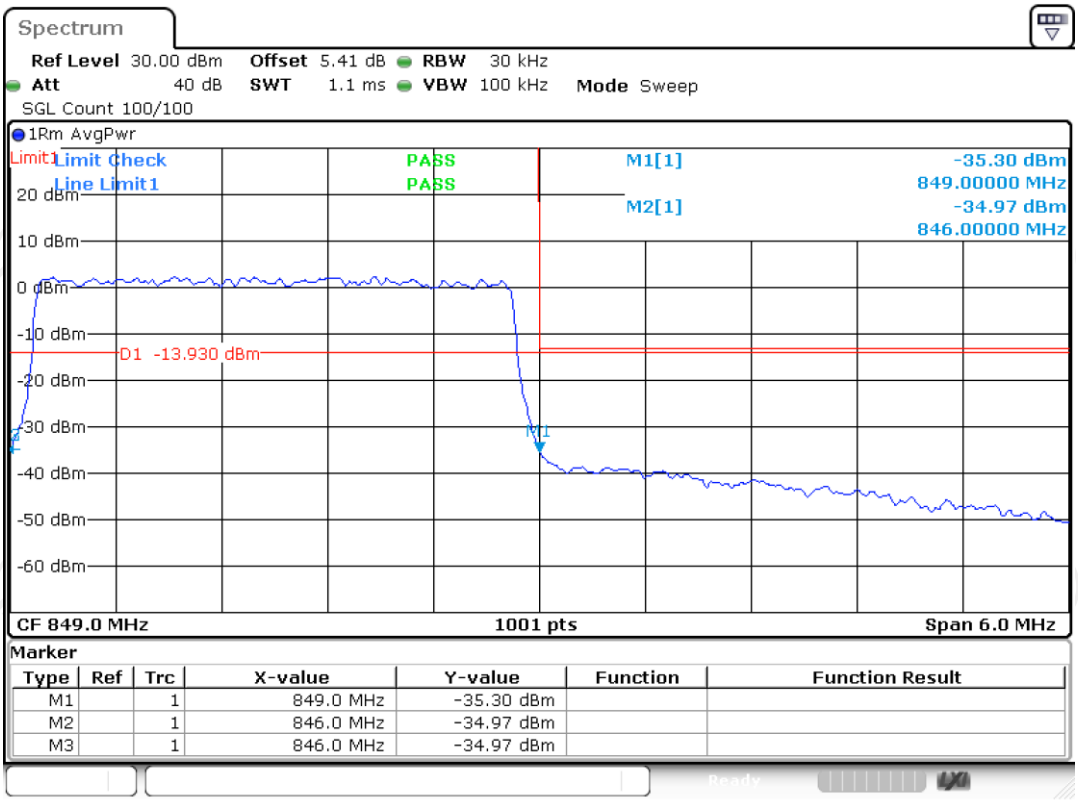
Date: 7.SEP.2023 14:12:51

Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0



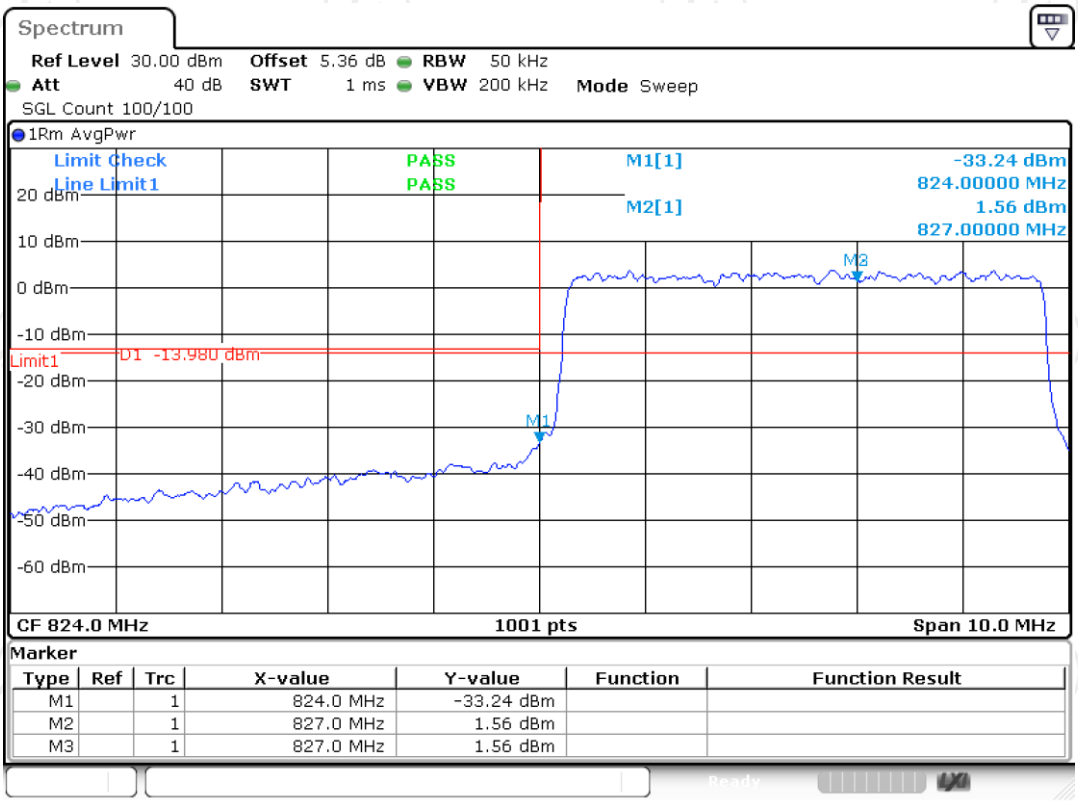
Date: 7.SEP.2023 14:12:56

Band5 16QAM BW=3MHz Channel=20635 RB Size=15 Position=#0



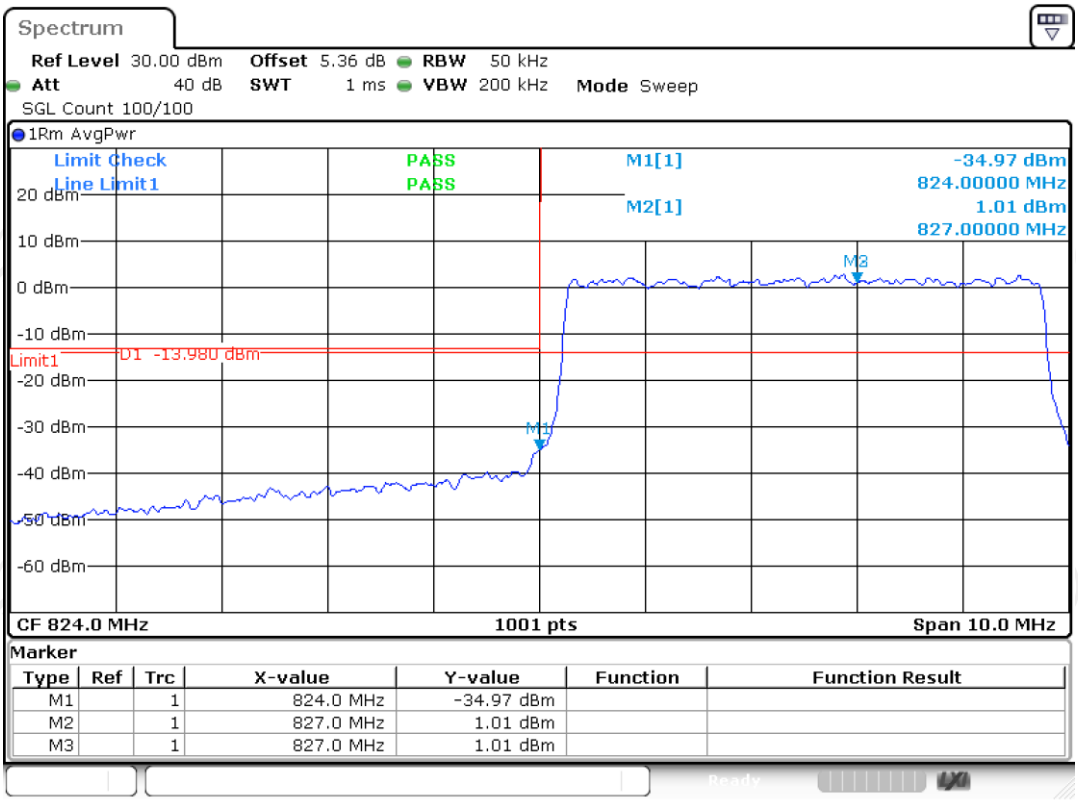
Date: 7.SEP.2023 14:13:01

Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0



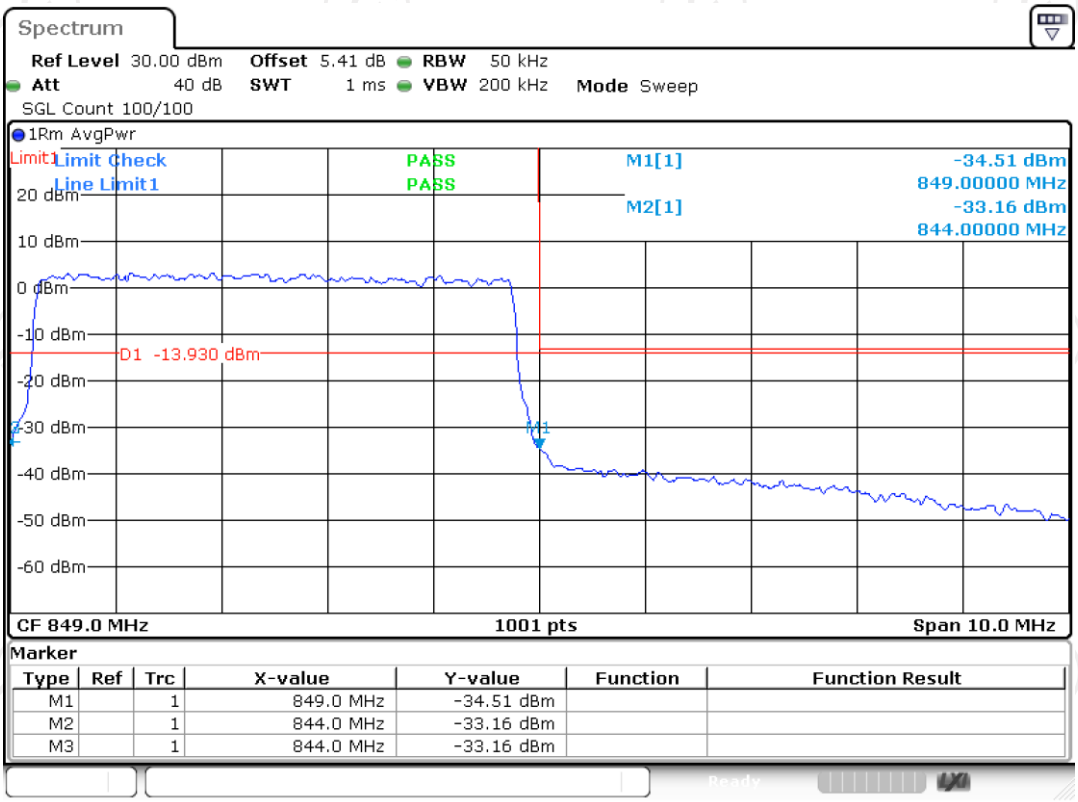
Date: 7.SEP.2023 14:13:06

Band5 16QAM BW=5MHz Channel=20425 RB Size=25 Position=#0



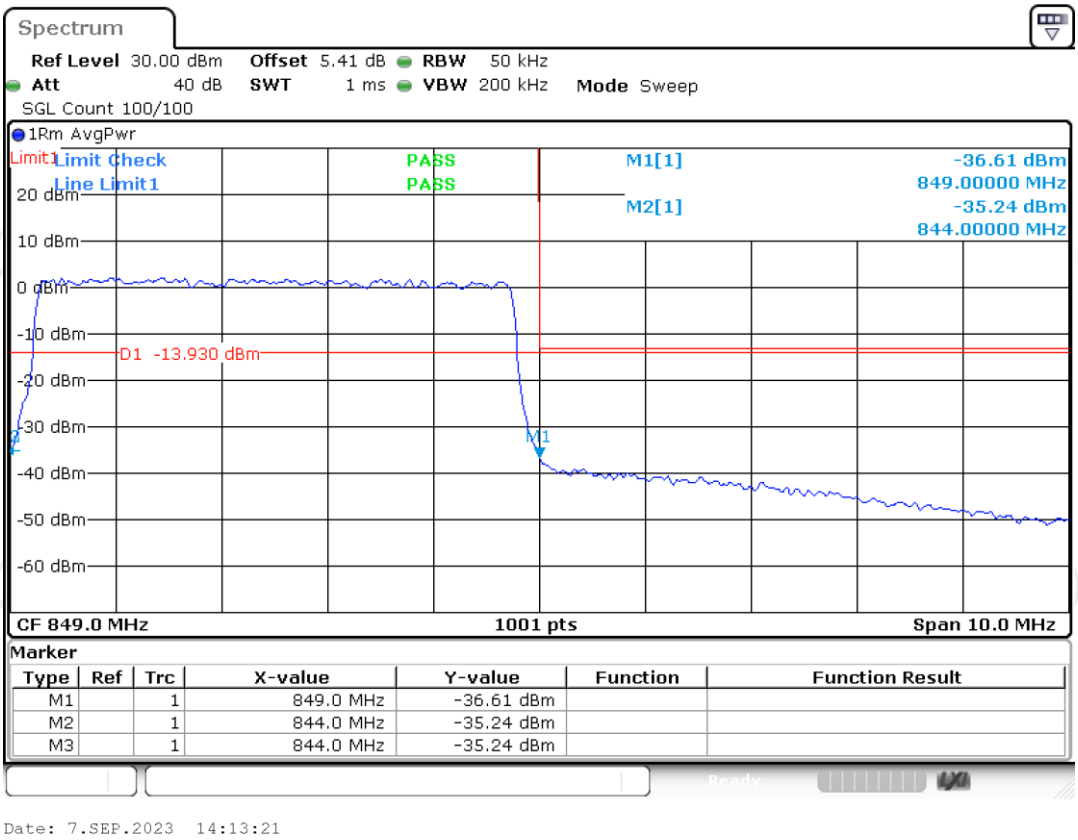
Date: 7.SEP.2023 14:13:11

Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0



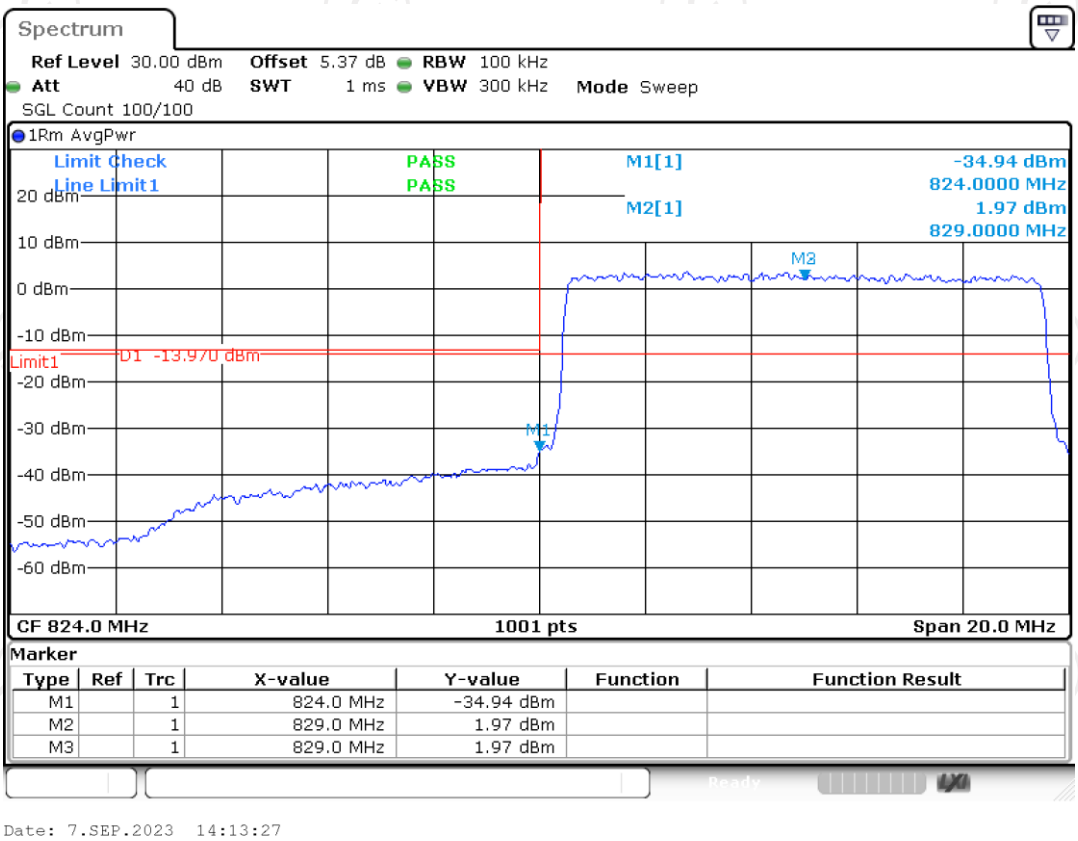
Date: 7.SEP.2023 14:13:16

Band5 16QAM BW=5MHz Channel=20625 RB Size=25 Position=#0



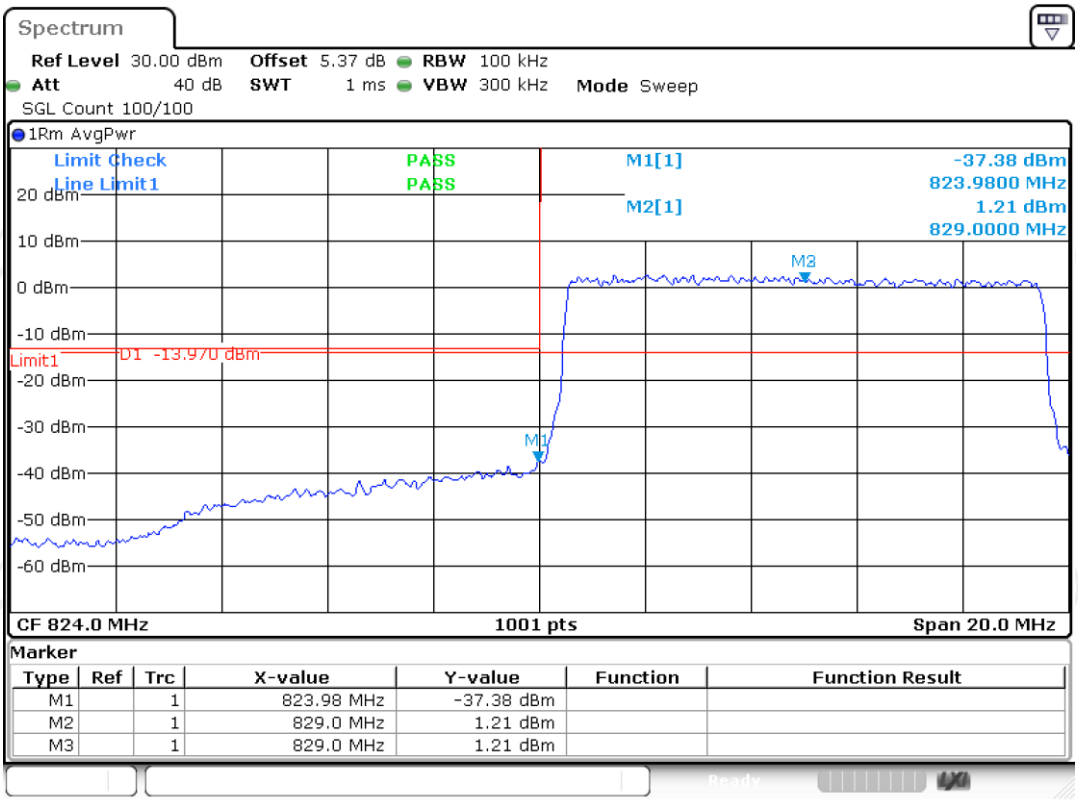
Date: 7.SEP.2023 14:13:21

Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0



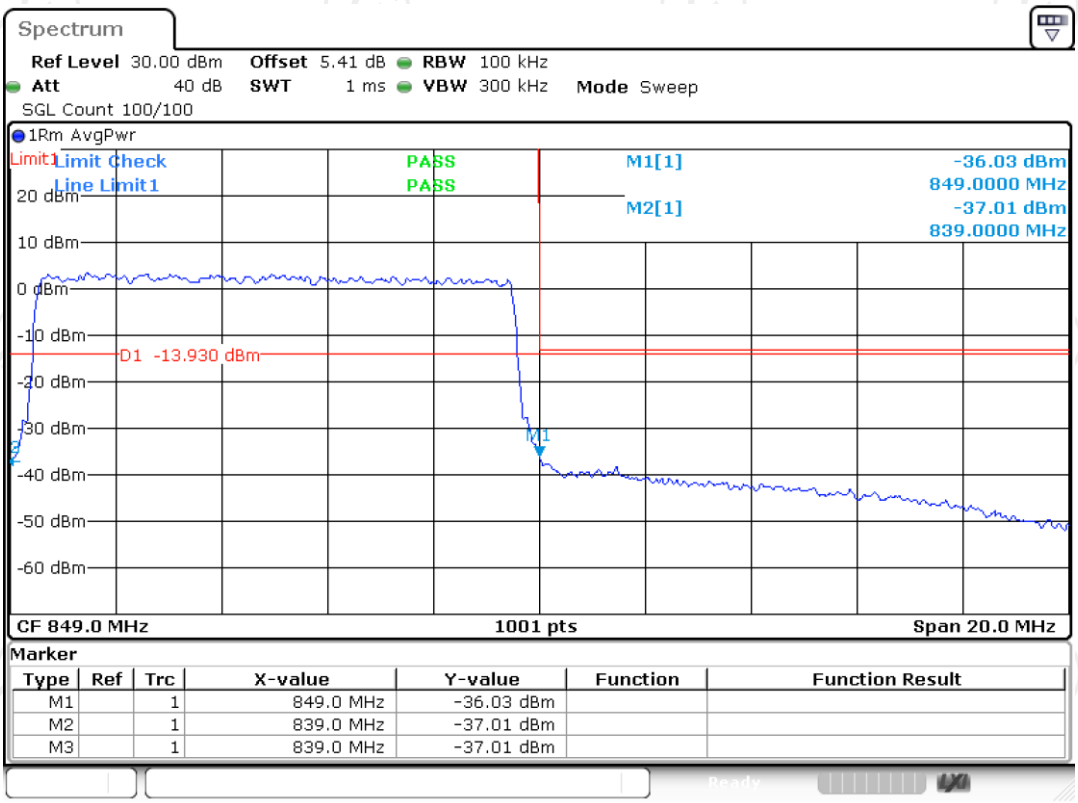
Date: 7.SEP.2023 14:13:27

Band5 16QAM BW=10MHz Channel=20450 RB Size=50 Position=#0



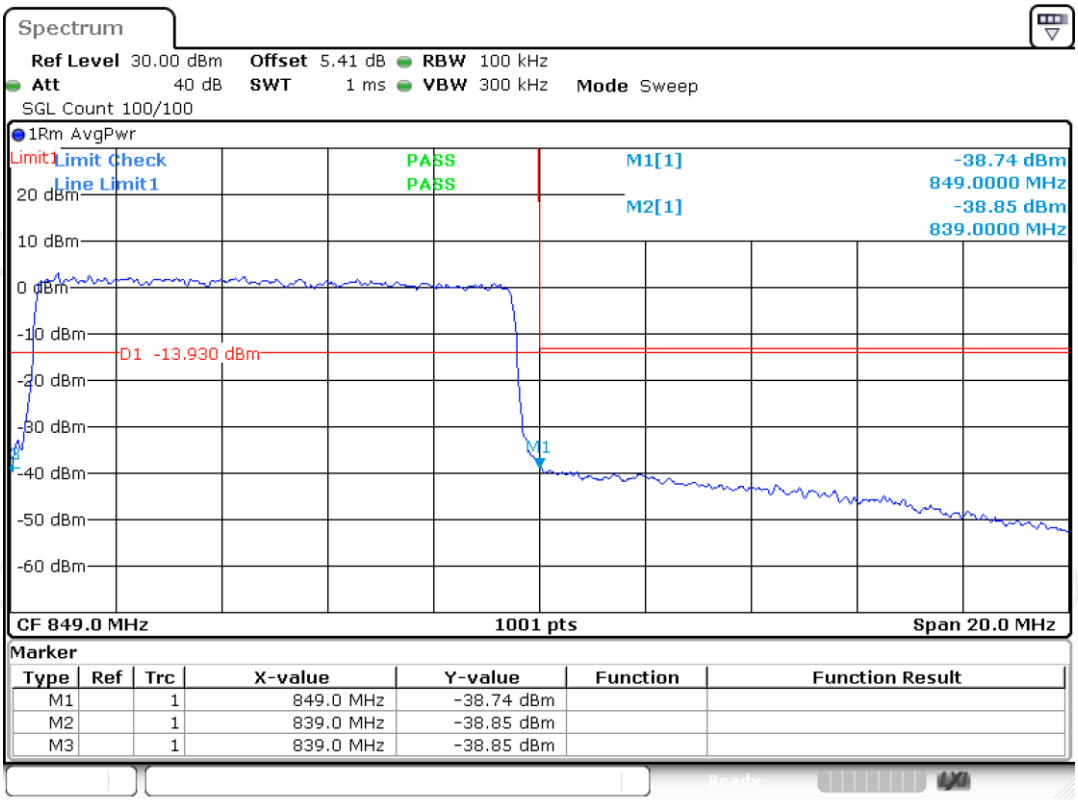
Date: 7.SEP.2023 14:13:32

Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0



Date: 7.SEP.2023 14:13:37

Band5 16QAM BW=10MHz Channel=20600 RB Size=50 Position=#0

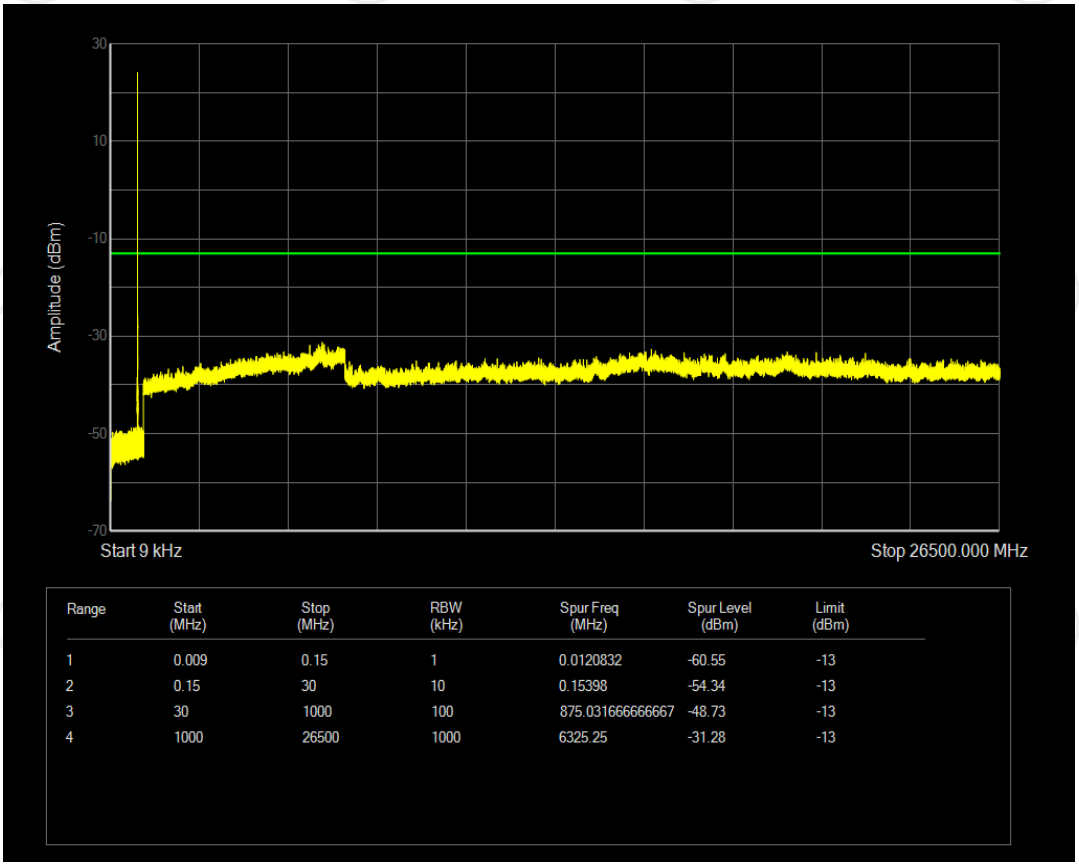


6 Out-of-band emissions

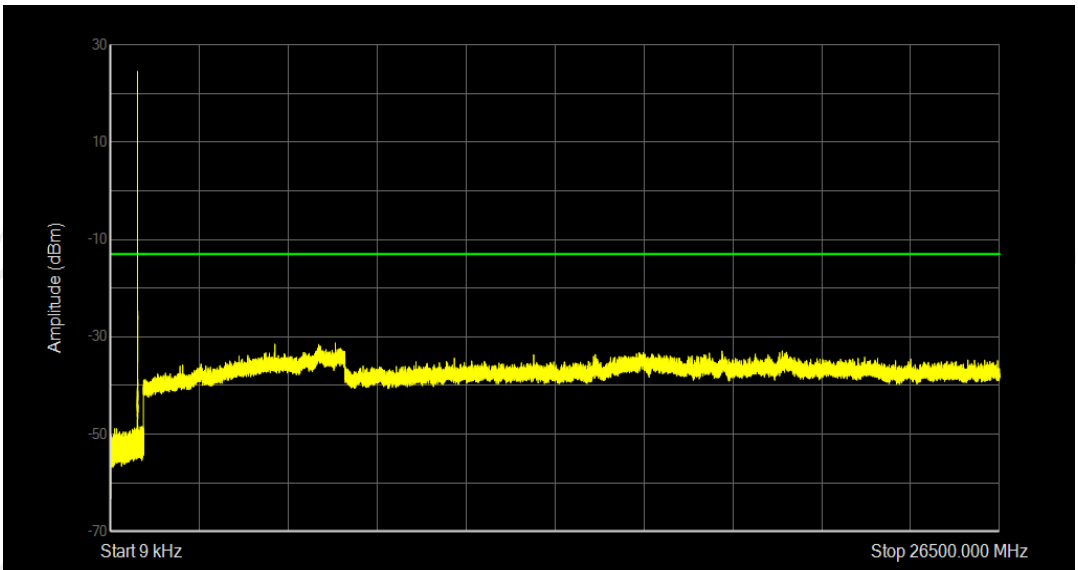
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band5	1.4	20407	1	#0	QPSK	6325.25	-31.28	-13	PASS
Band5	1.4	20407	1	#0	16QAM	6716.25	-31.28	-13	PASS
Band5	1.4	20525	1	#0	QPSK	6191.80	-30.88	-13	PASS
Band5	1.4	20525	1	#0	16QAM	6874.35	-31.12	-13	PASS
Band5	1.4	20643	1	#0	QPSK	6194.35	-31.23	-13	PASS
Band5	1.4	20643	1	#0	16QAM	6915.15	-31.60	-13	PASS
Band5	3	20415	1	#0	QPSK	19611.60	-31.76	-13	PASS
Band5	3	20415	1	#0	16QAM	6247.05	-31.81	-13	PASS
Band5	3	20525	1	#0	QPSK	6417.90	-31.34	-13	PASS
Band5	3	20525	1	#0	16QAM	6786.80	-31.49	-13	PASS
Band5	3	20635	1	#0	QPSK	6742.60	-31.19	-13	PASS
Band5	3	20635	1	#0	16QAM	6423.85	-31.31	-13	PASS
Band5	5	20425	1	#0	QPSK	6211.35	-31.70	-13	PASS
Band5	5	20425	1	#0	16QAM	6298.90	-31.42	-13	PASS
Band5	5	20525	1	#0	QPSK	6205.40	-31.03	-13	PASS
Band5	5	20525	1	#0	16QAM	6865.85	-30.58	-13	PASS
Band5	5	20625	1	#0	QPSK	6694.15	-31.79	-13	PASS
Band5	5	20625	1	#0	16QAM	6958.50	-31.40	-13	PASS
Band5	10	20450	1	#0	QPSK	6915.15	-31.51	-13	PASS

Band5	10	20450	1	#0	16QAM	6249.60	-31.57	-13	PASS
Band5	10	20525	1	#0	QPSK	6866.70	-31.73	-13	PASS
Band5	10	20525	1	#0	16QAM	6916.85	-31.68	-13	PASS
Band5	10	20600	1	#0	QPSK	6802.95	-31.43	-13	PASS
Band5	10	20600	1	#0	16QAM	6794.45	-31.54	-13	PASS

Band5 QPSK BW=1.4MHz Channel=20407 RB Size=1 Position=#0

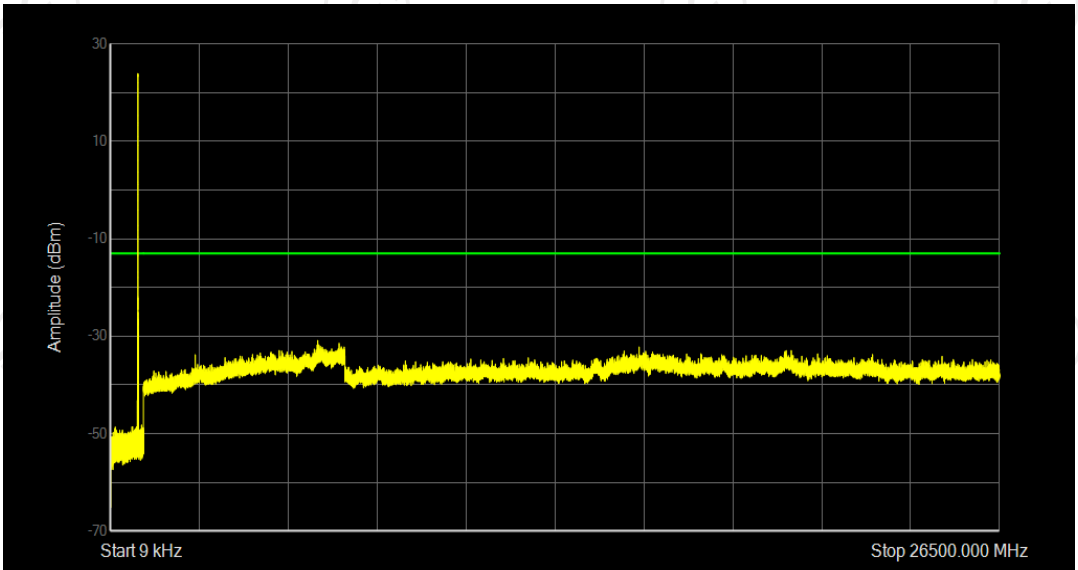


Band5 16QAM BW=1.4MHz Channel=20407 RB Size=1 Position=#0



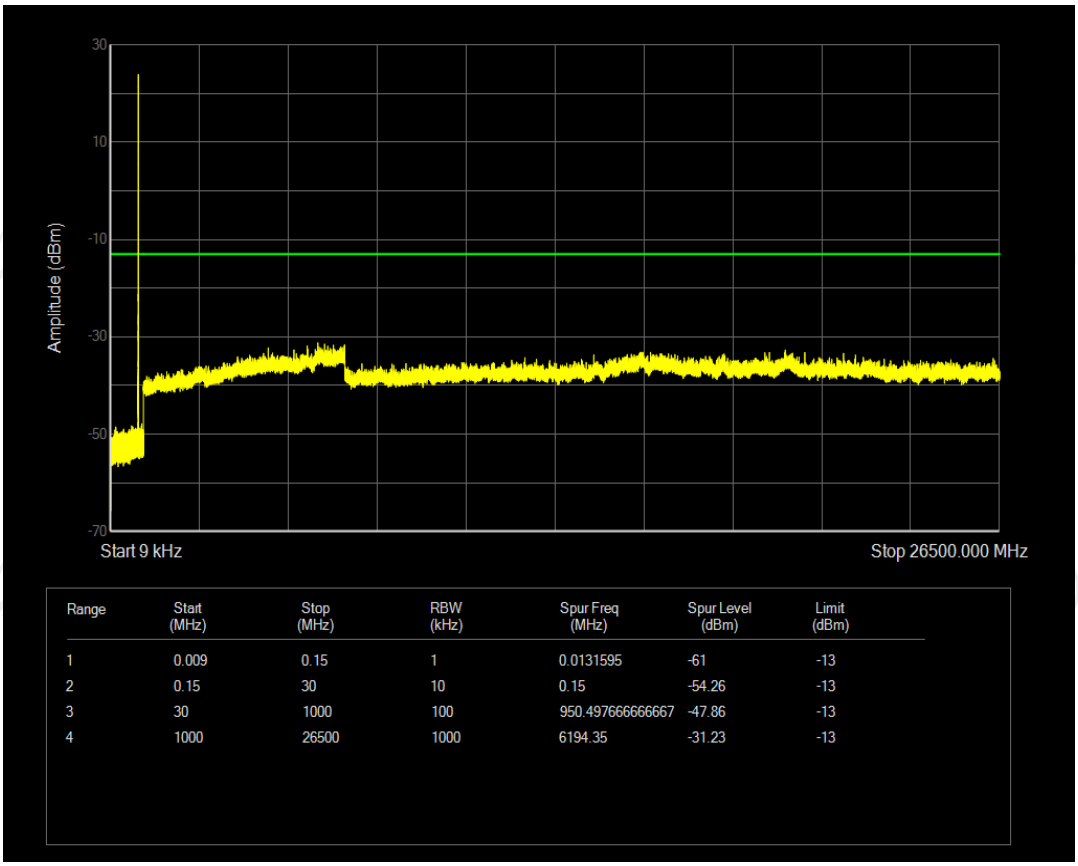
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0140008	-60.11	-13
2	0.15	30	10	0.15	-54.44	-13
3	30	1000	100	966.955333333333	-48.41	-13
4	1000	26500	1000	6716.25	-31.28	-13

Band5 QPSK BW=1.4MHz Channel=20525 RB Size=1 Position=#0



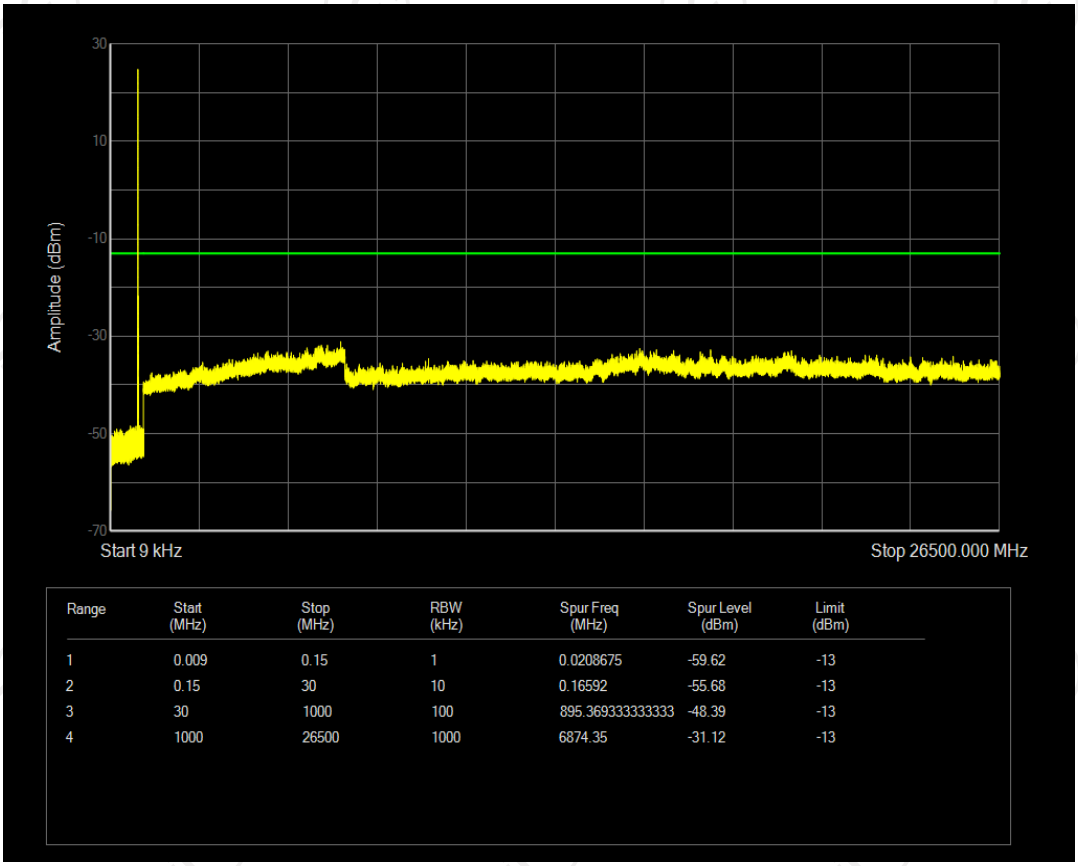
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0756319	-59.64	-13
2	0.15	30	10	0.166915	-55.48	-13
3	30	1000	100	946.229666666667	-48.24	-13
4	1000	26500	1000	6191.8	-30.88	-13

Band5 QPSK BW=1.4MHz Channel=20643 RB Size=1 Position=#0



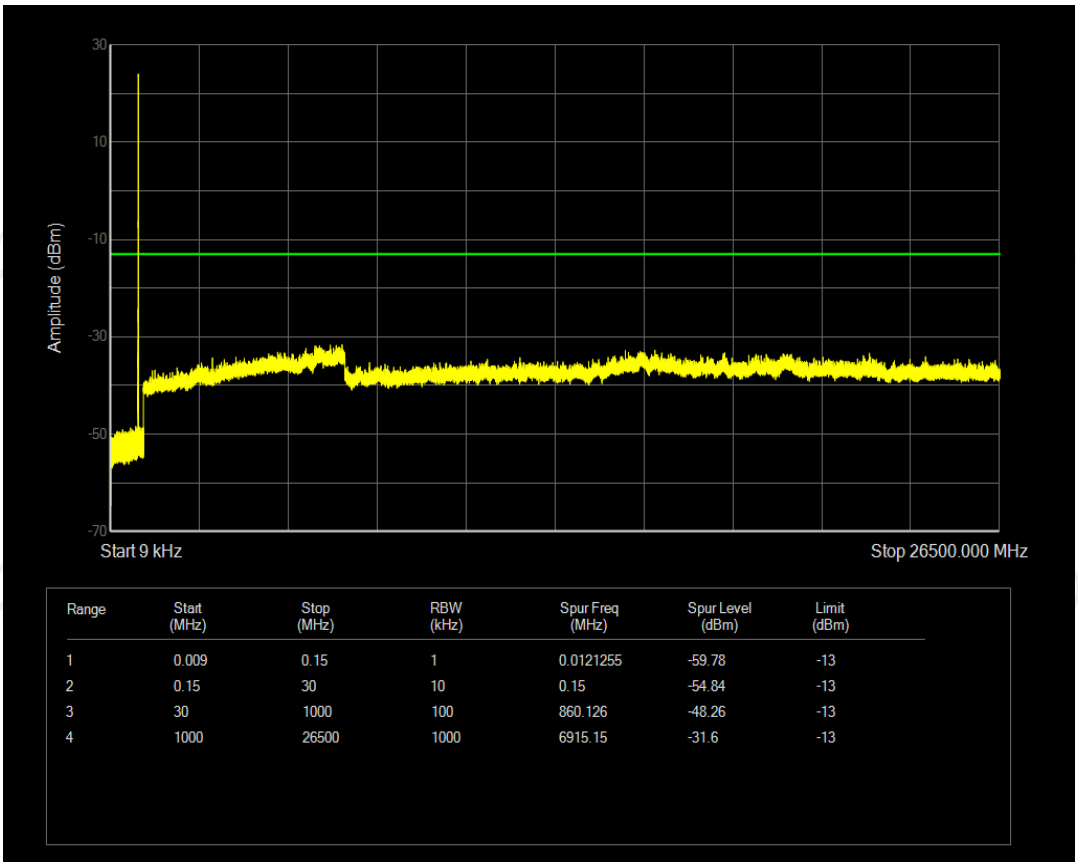
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0131595	-61	-13
2	0.15	30	10	0.15	-54.26	-13
3	30	1000	100	950.497666666667	-47.86	-13
4	1000	26500	1000	6194.35	-31.23	-13

Band5 16QAM BW=1.4MHz Channel=20525 RB Size=1 Position=#0



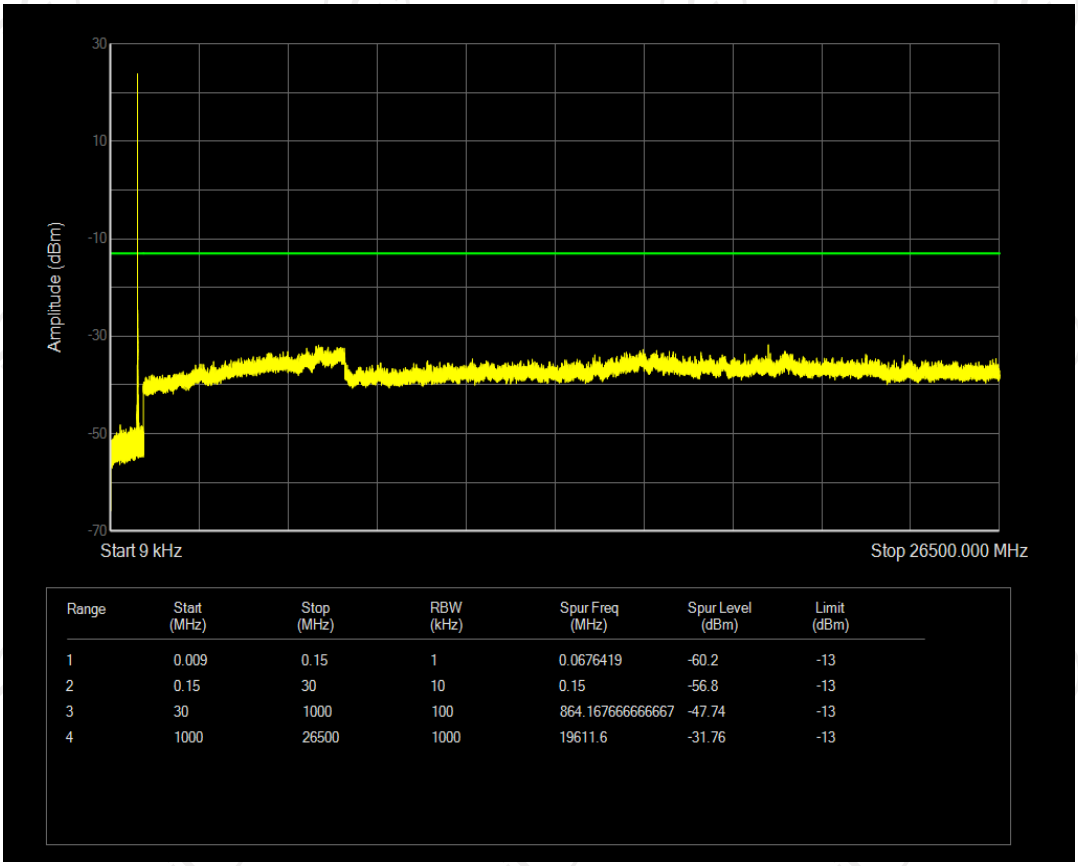
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0208675	-59.62	-13
2	0.15	30	10	0.16592	-55.68	-13
3	30	1000	100	895.369333333333	-48.39	-13
4	1000	26500	1000	6874.35	-31.12	-13

Band5 16QAM BW=1.4MHz Channel=20643 RB Size=1 Position=#0



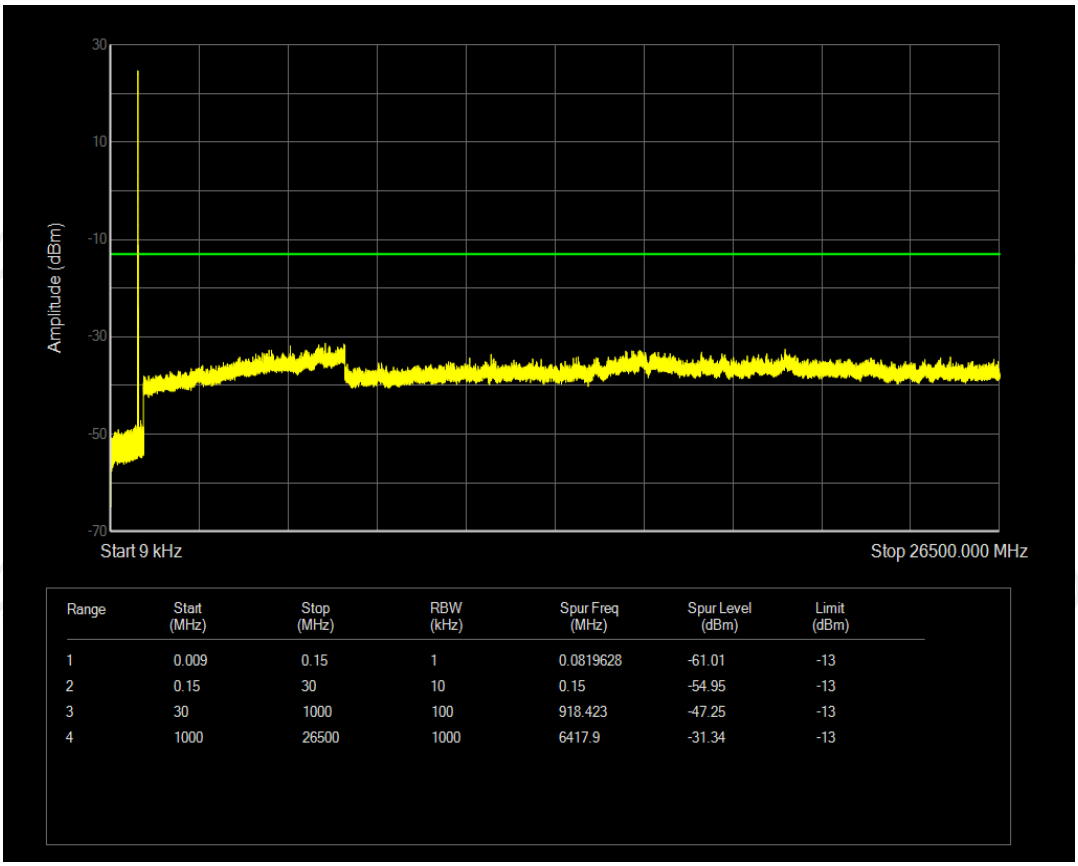
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0121255	-59.78	-13
2	0.15	30	10	0.15	-54.84	-13
3	30	1000	100	860.126	-48.26	-13
4	1000	26500	1000	6915.15	-31.6	-13

Band5 QPSK BW=3MHz Channel=20415 RB Size=1 Position=#0



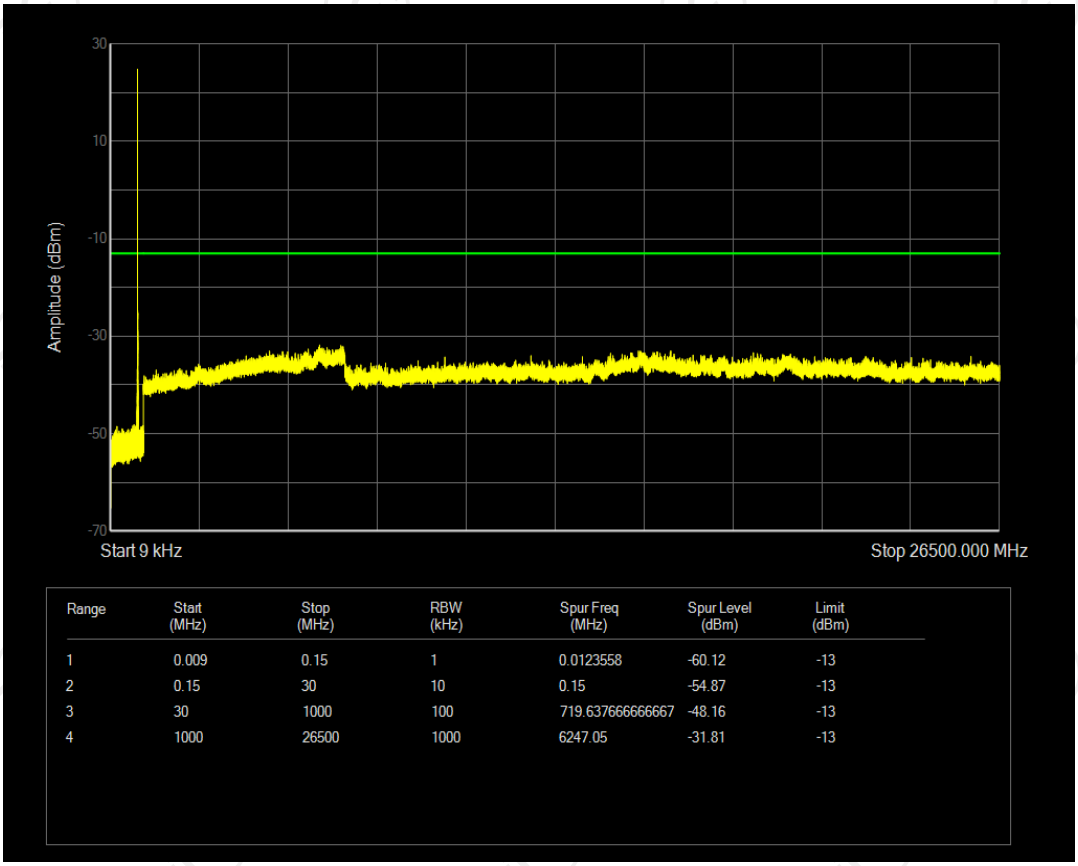
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0676419	-60.2	-13
2	0.15	30	10	0.15	-56.8	-13
3	30	1000	100	864.167666666667	-47.74	-13
4	1000	26500	1000	19611.6	-31.76	-13

Band5 QPSK BW=3MHz Channel=20525 RB Size=1 Position=#0



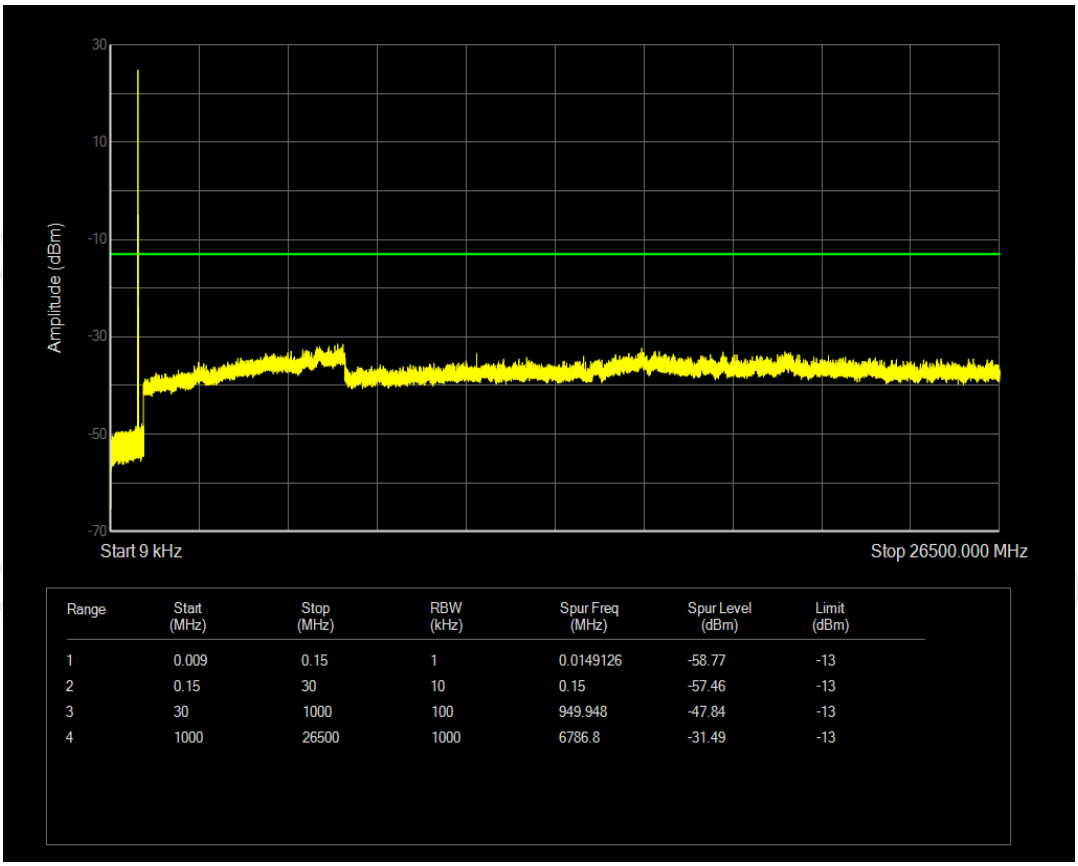
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0819628	-61.01	-13
2	0.15	30	10	0.15	-54.95	-13
3	30	1000	100	918.423	-47.25	-13
4	1000	26500	1000	6417.9	-31.34	-13

Band5 16QAM BW=3MHz Channel=20415 RB Size=1 Position=#0



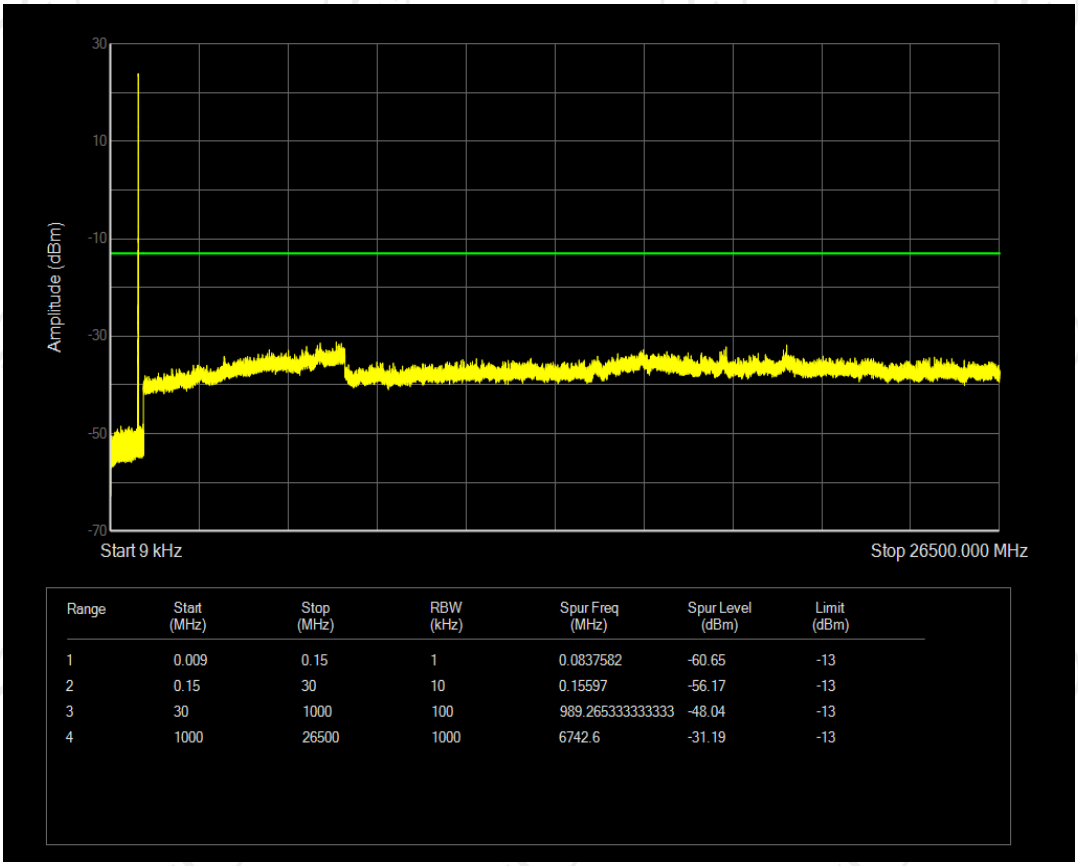
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0123558	-60.12	-13
2	0.15	30	10	0.15	-54.87	-13
3	30	1000	100	719.637666666667	-48.16	-13
4	1000	26500	1000	6247.05	-31.81	-13

Band5 16QAM BW=3MHz Channel=20525 RB Size=1 Position=#0



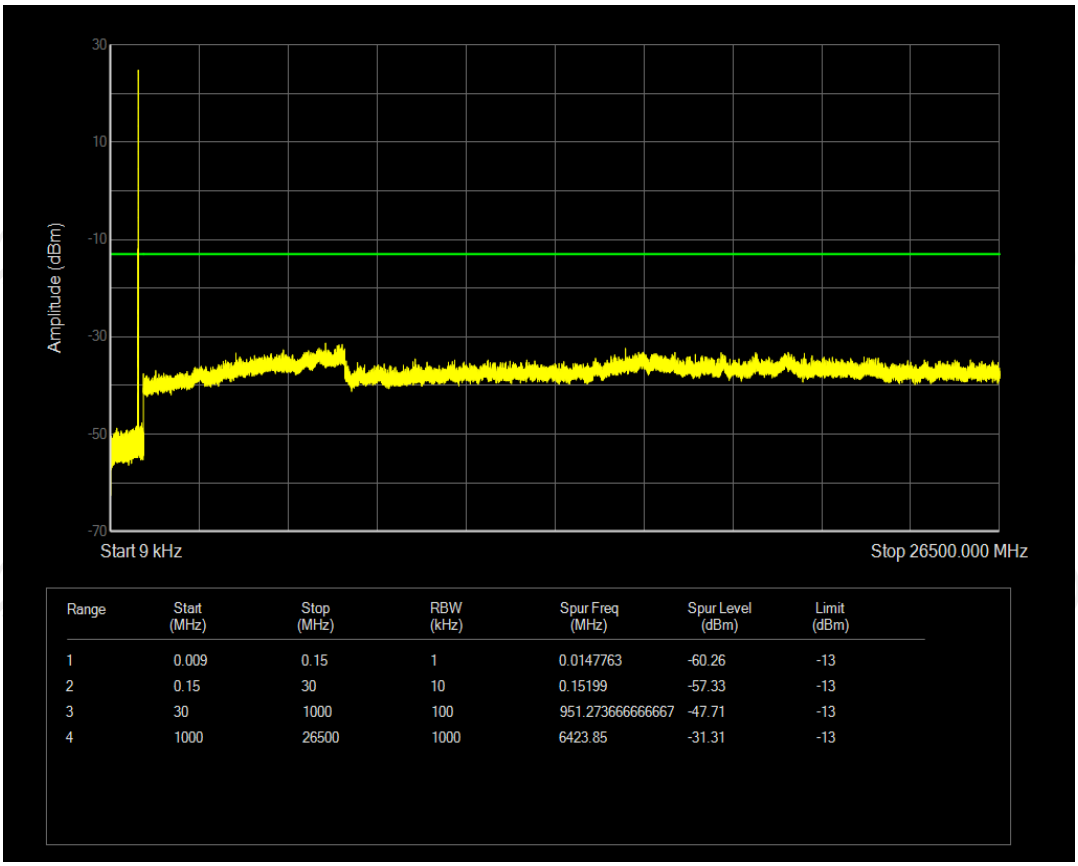
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0149126	-58.77	-13
2	0.15	30	10	0.15	-57.46	-13
3	30	1000	100	949.948	-47.84	-13
4	1000	26500	1000	6786.8	-31.49	-13

Band5 QPSK BW=3MHz Channel=20635 RB Size=1 Position=#0



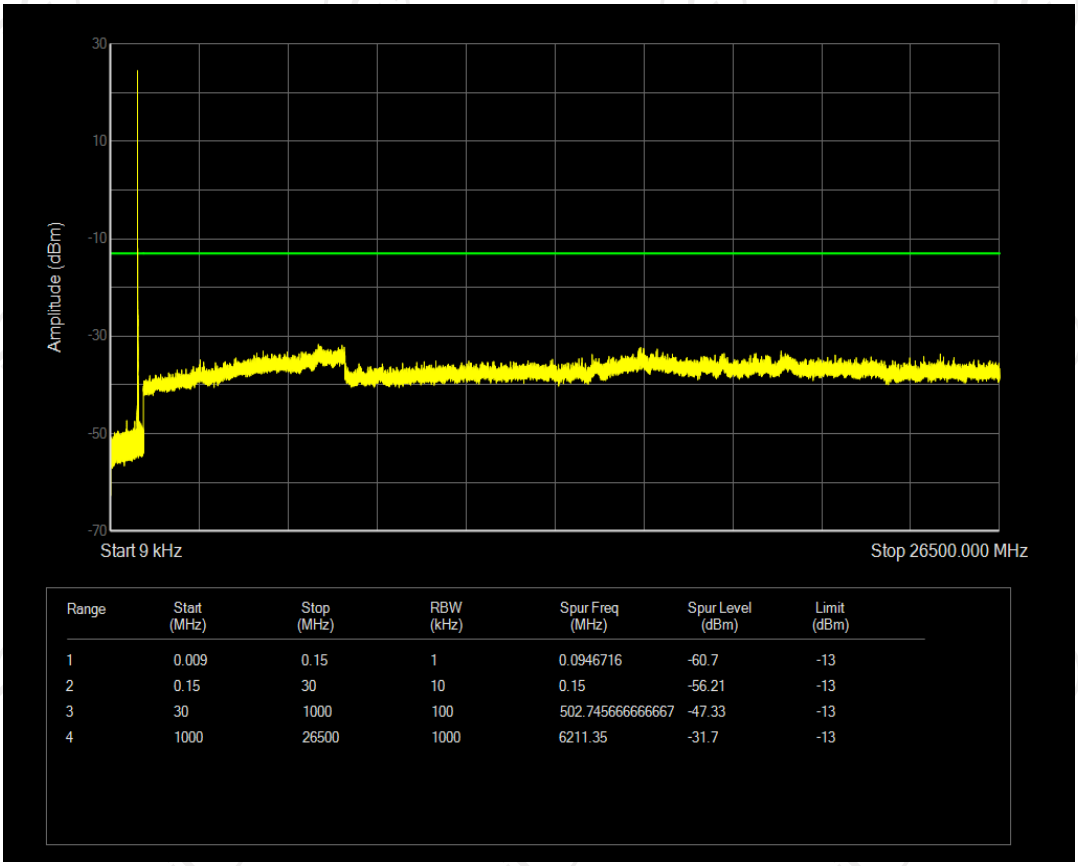
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0837582	-60.65	-13
2	0.15	30	10	0.15597	-56.17	-13
3	30	1000	100	989.265333333333	-48.04	-13
4	1000	26500	1000	6742.6	-31.19	-13

Band5 16QAM BW=3MHz Channel=20635 RB Size=1 Position=#0



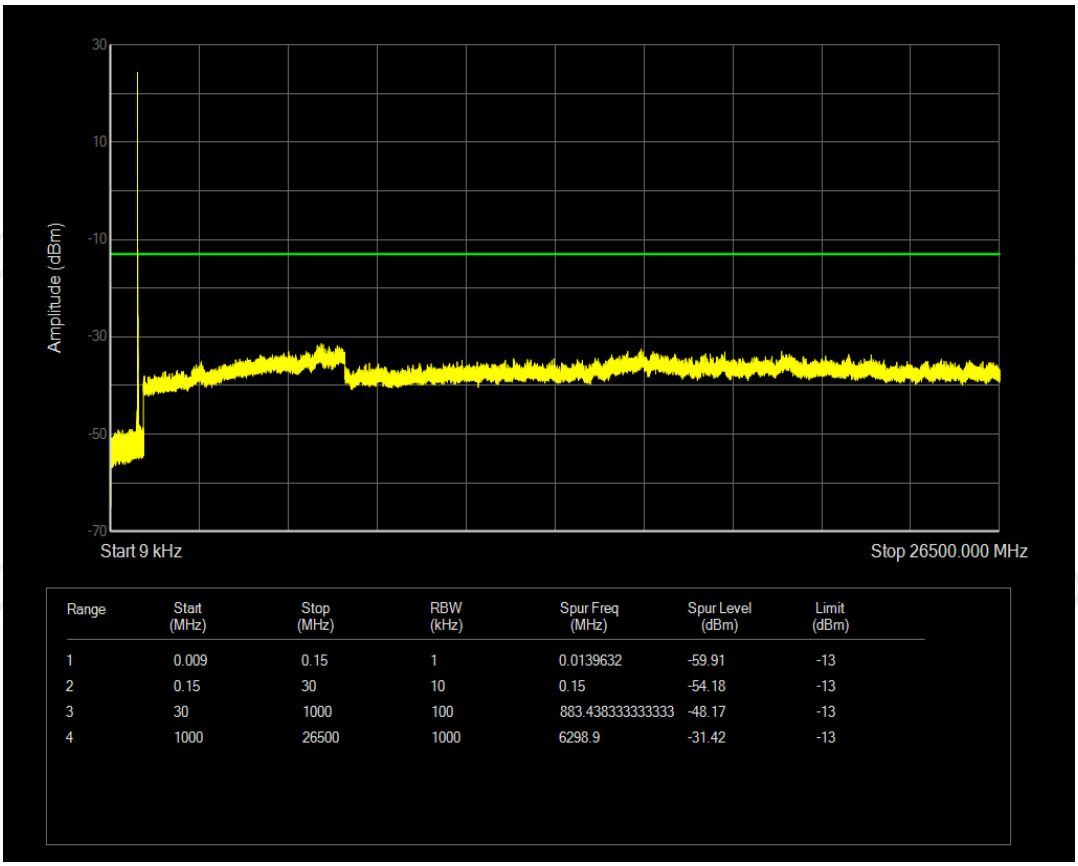
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0147763	-60.26	-13
2	0.15	30	10	0.15199	-57.33	-13
3	30	1000	100	951.273666666667	-47.71	-13
4	1000	26500	1000	6423.85	-31.31	-13

Band5 QPSK BW=5MHz Channel=20425 RB Size=1 Position=#0



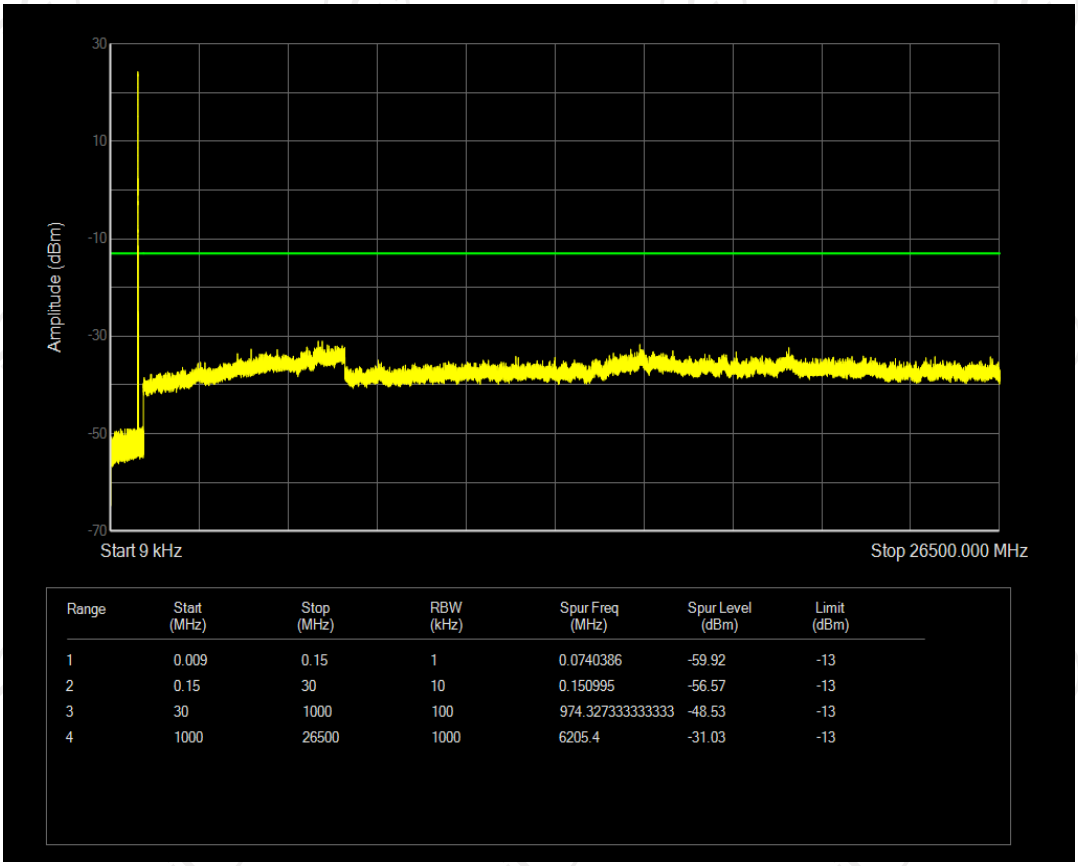
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0946716	-60.7	-13
2	0.15	30	10	0.15	-56.21	-13
3	30	1000	100	502.745666666667	-47.33	-13
4	1000	26500	1000	6211.35	-31.7	-13

Band5 16QAM BW=5MHz Channel=20425 RB Size=1 Position=#0



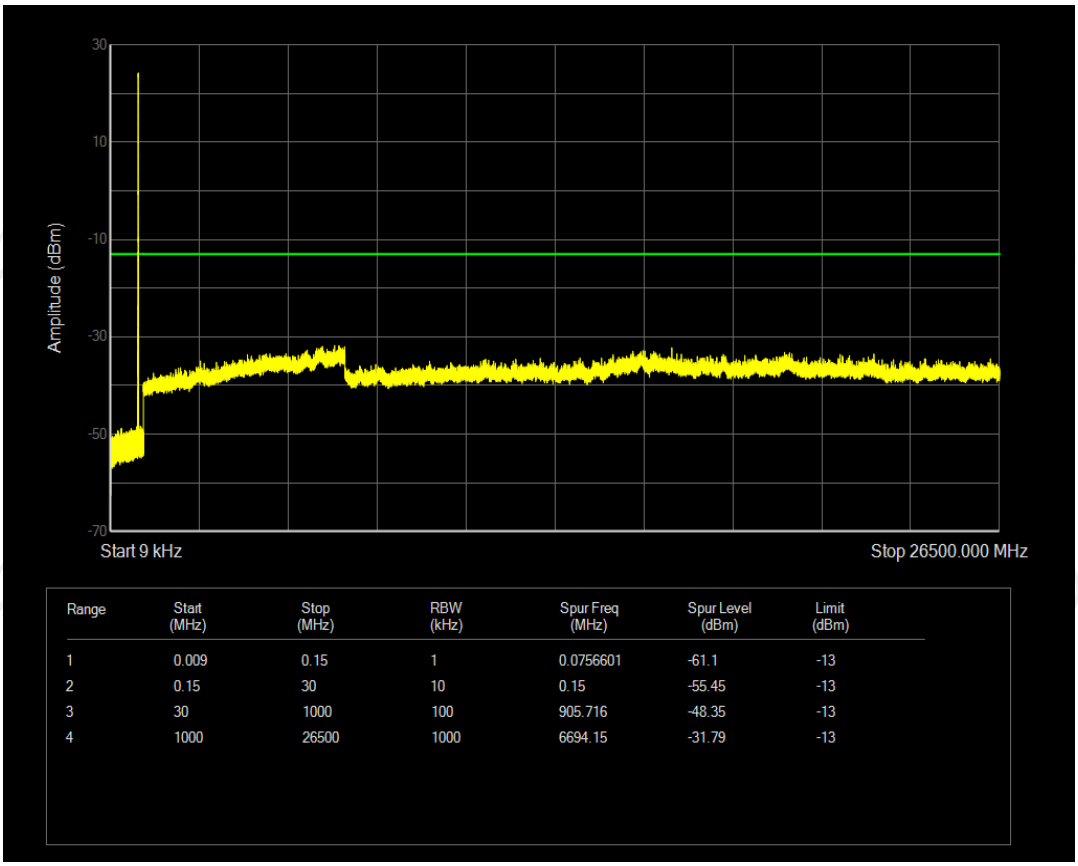
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0139632	-59.91	-13
2	0.15	30	10	0.15	-54.18	-13
3	30	1000	100	883.438333333333	-48.17	-13
4	1000	26500	1000	6298.9	-31.42	-13

Band5 QPSK BW=5MHz Channel=20525 RB Size=1 Position=#0



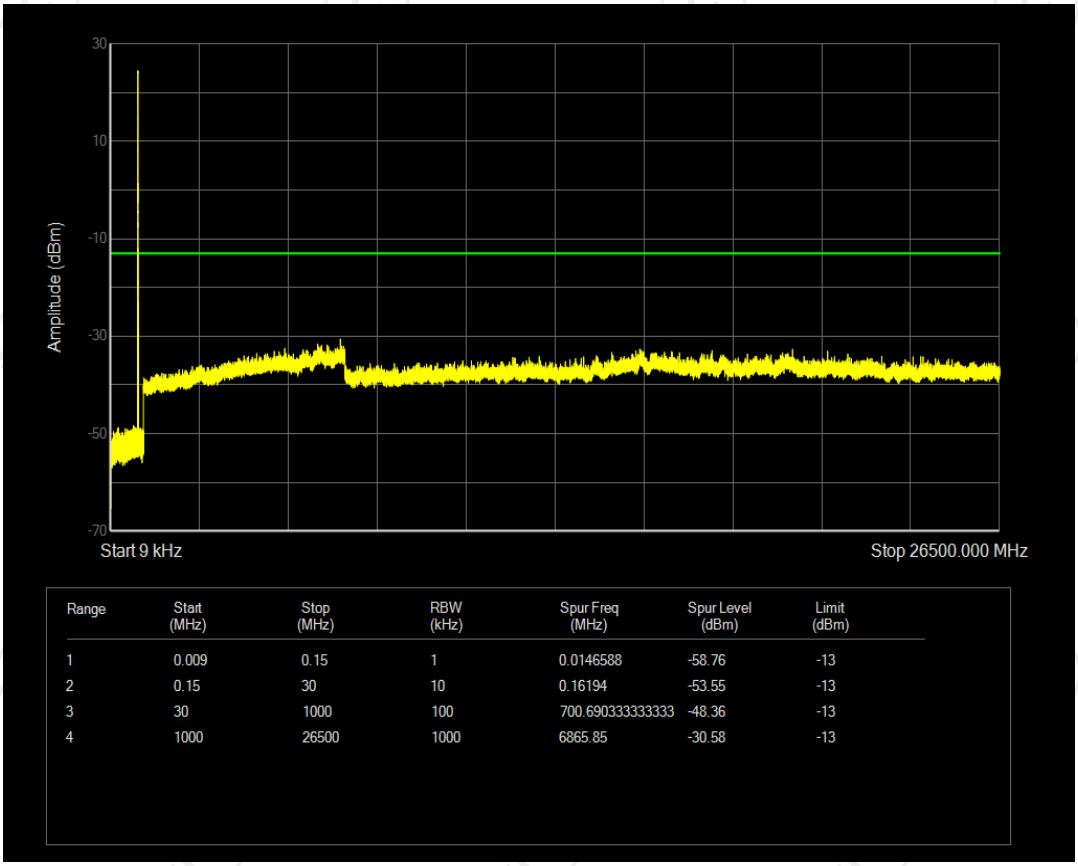
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0740386	-59.92	-13
2	0.15	30	10	0.150995	-56.57	-13
3	30	1000	100	974.327333333333	-48.53	-13
4	1000	26500	1000	6205.4	-31.03	-13

Band5 QPSK BW=5MHz Channel=20625 RB Size=1 Position=#0



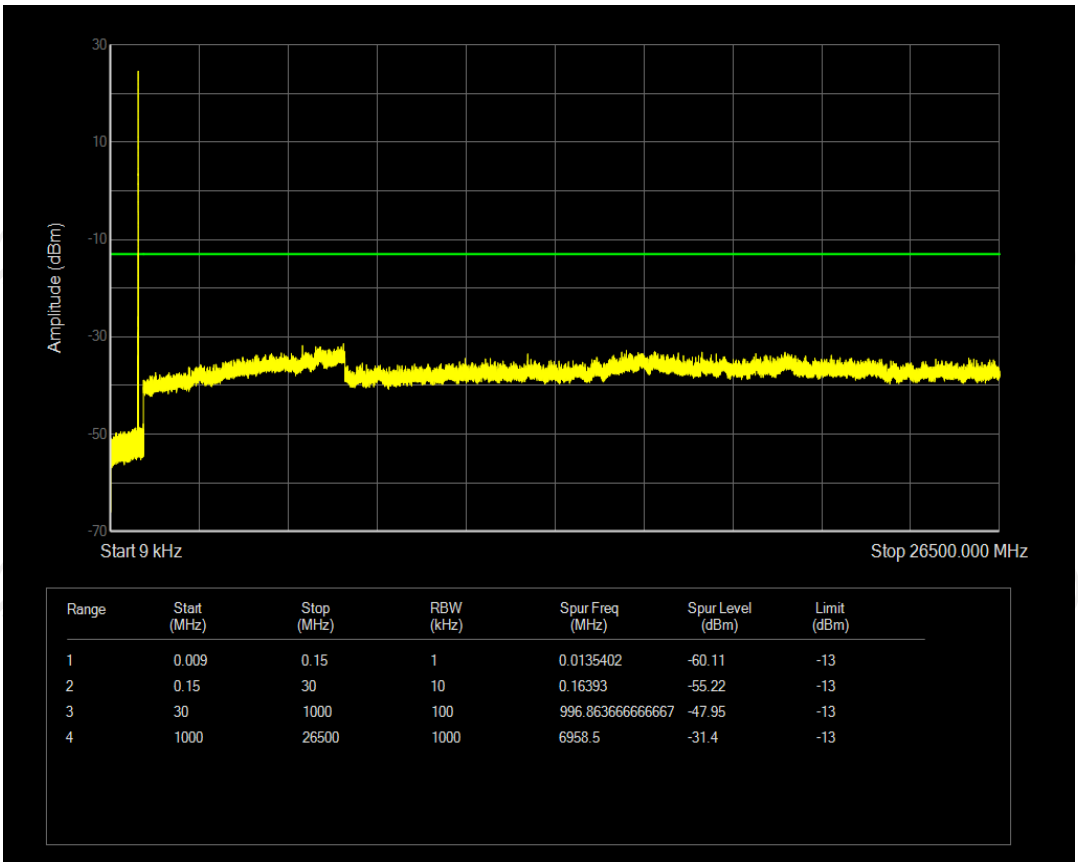
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0756601	-61.1	-13
2	0.15	30	10	0.15	-55.45	-13
3	30	1000	100	905.716	-48.35	-13
4	1000	26500	1000	6694.15	-31.79	-13

Band5 16QAM BW=5MHz Channel=20525 RB Size=1 Position=#0



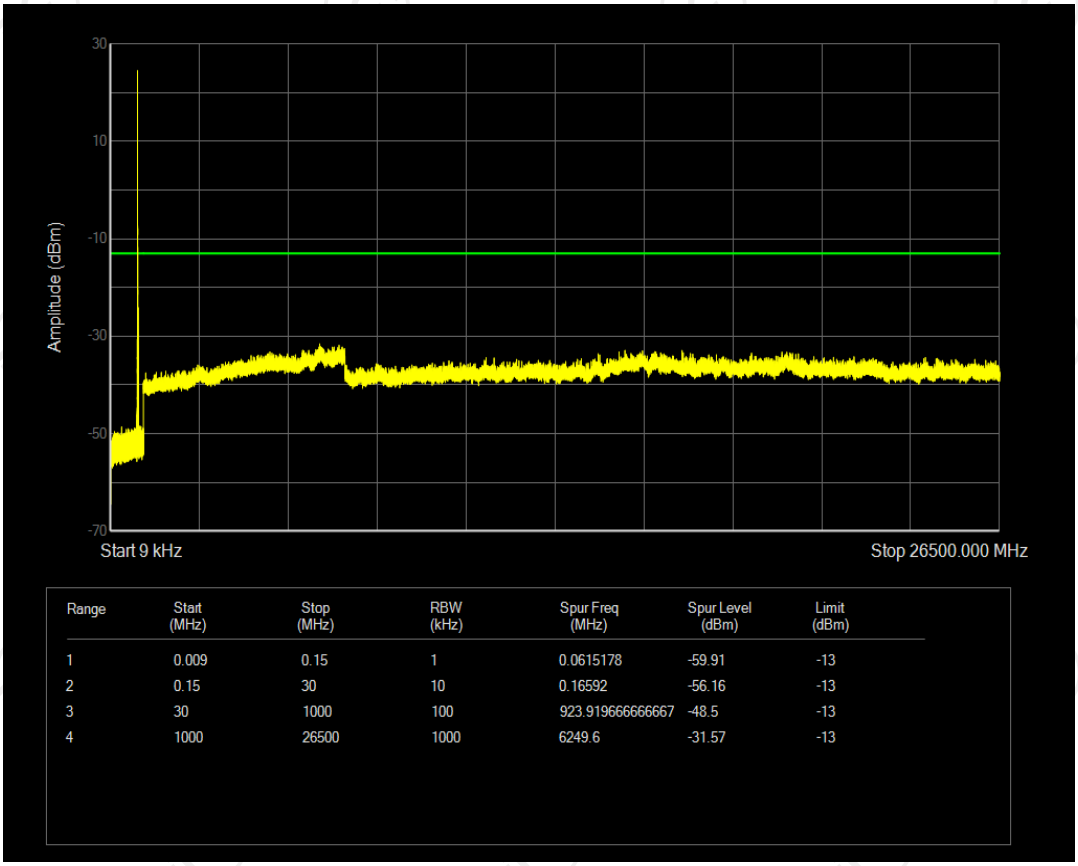
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0146588	-58.76	-13
2	0.15	30	10	0.16194	-53.55	-13
3	30	1000	100	700.690333333333	-48.36	-13
4	1000	26500	1000	6865.85	-30.58	-13

Band5 16QAM BW=5MHz Channel=20625 RB Size=1 Position=#0



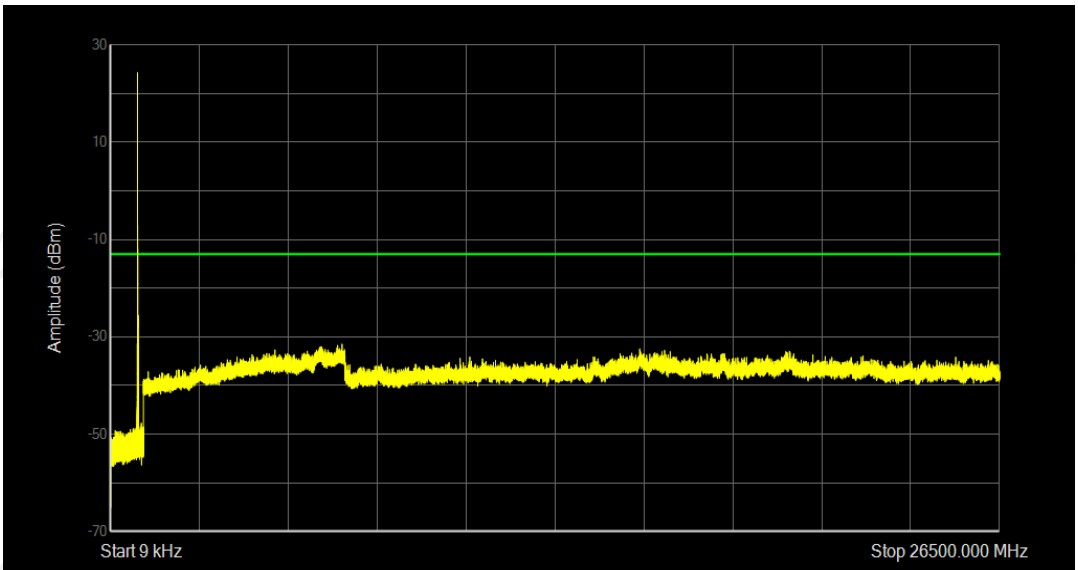
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0135402	-60.11	-13
2	0.15	30	10	0.16393	-55.22	-13
3	30	1000	100	996.863666666667	-47.95	-13
4	1000	26500	1000	6958.5	-31.4	-13

Band5 16QAM BW=10MHz Channel=20450 RB Size=1 Position=#0



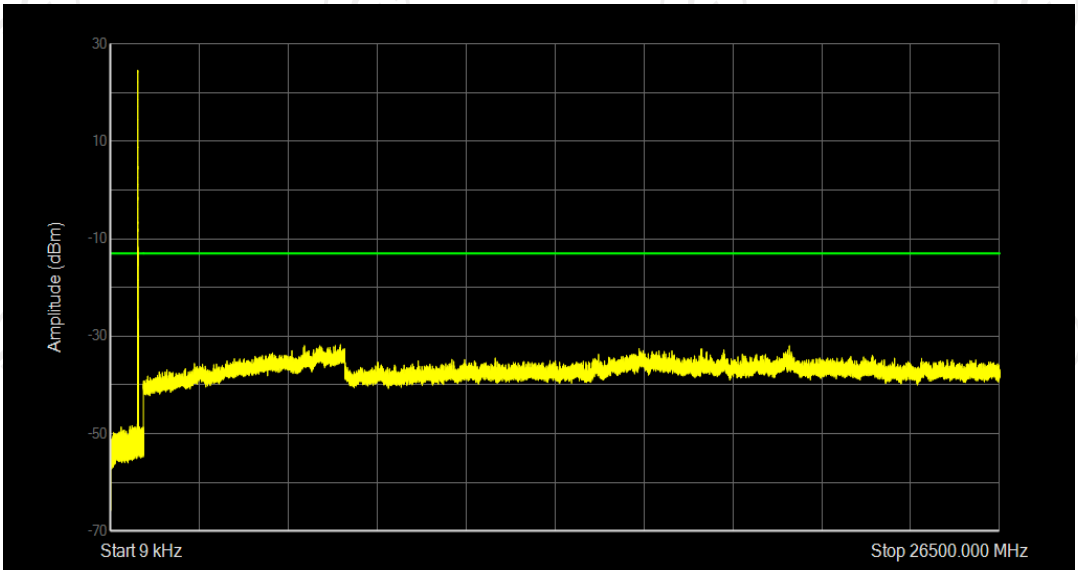
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0615178	-59.91	-13
2	0.15	30	10	0.16592	-56.16	-13
3	30	1000	100	923.919666666667	-48.5	-13
4	1000	26500	1000	6249.6	-31.57	-13

Band5 QPSK BW=10MHz Channel=20450 RB Size=1 Position=#0



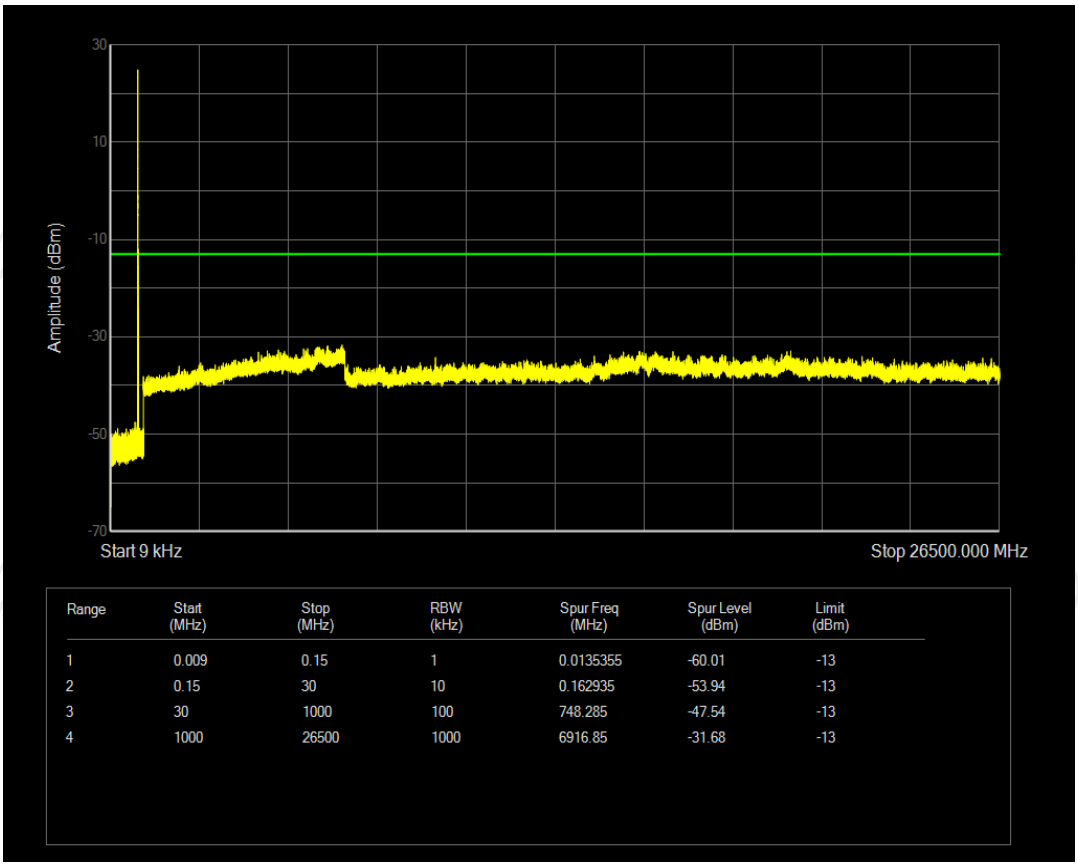
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0103348	-60.44	-13
2	0.15	30	10	0.15796	-55.82	-13
3	30	1000	100	935.753666666667	-47.75	-13
4	1000	26500	1000	6915.15	-31.51	-13

Band5 QPSK BW=10MHz Channel=20525 RB Size=1 Position=#0



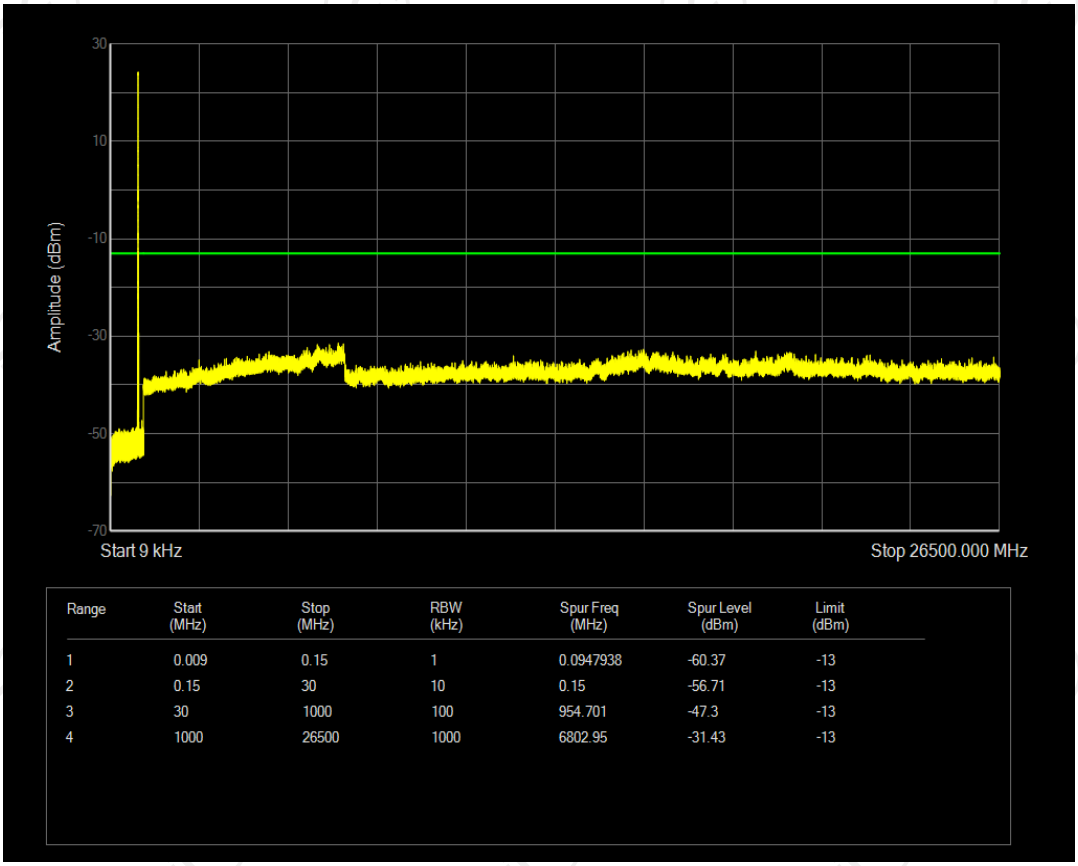
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0934543	-60.5	-13
2	0.15	30	10	0.15	-55.35	-13
3	30	1000	100	661.825666666667	-48.39	-13
4	1000	26500	1000	6866.7	-31.73	-13

Band5 16QAM BW=10MHz Channel=20525 RB Size=1 Position=#0



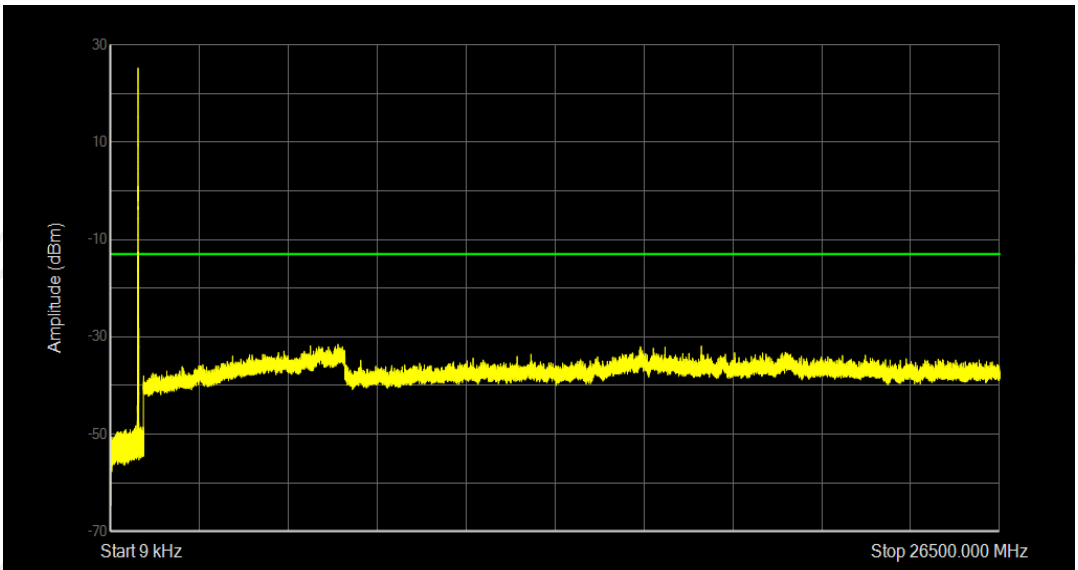
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0135355	-60.01	-13
2	0.15	30	10	0.162935	-53.94	-13
3	30	1000	100	748.285	-47.54	-13
4	1000	26500	1000	6916.85	-31.68	-13

Band5 QPSK BW=10MHz Channel=20600 RB Size=1 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0947938	-60.37	-13
2	0.15	30	10	0.15	-56.71	-13
3	30	1000	100	954.701	-47.3	-13
4	1000	26500	1000	6802.95	-31.43	-13

Band5 16QAM BW=10MHz Channel=20600 RB Size=1 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0140525	-60.45	-13
2	0.15	30	10	0.15	-56.38	-13
3	30	1000	100	770.433333333333	-48.32	-13
4	1000	26500	1000	6794.45	-31.54	-13