

Appendix for Band 13

Product Name: CelluCORE 24

Model No: 119906

Appendix A: Average Power Output Data for M1

Test Result

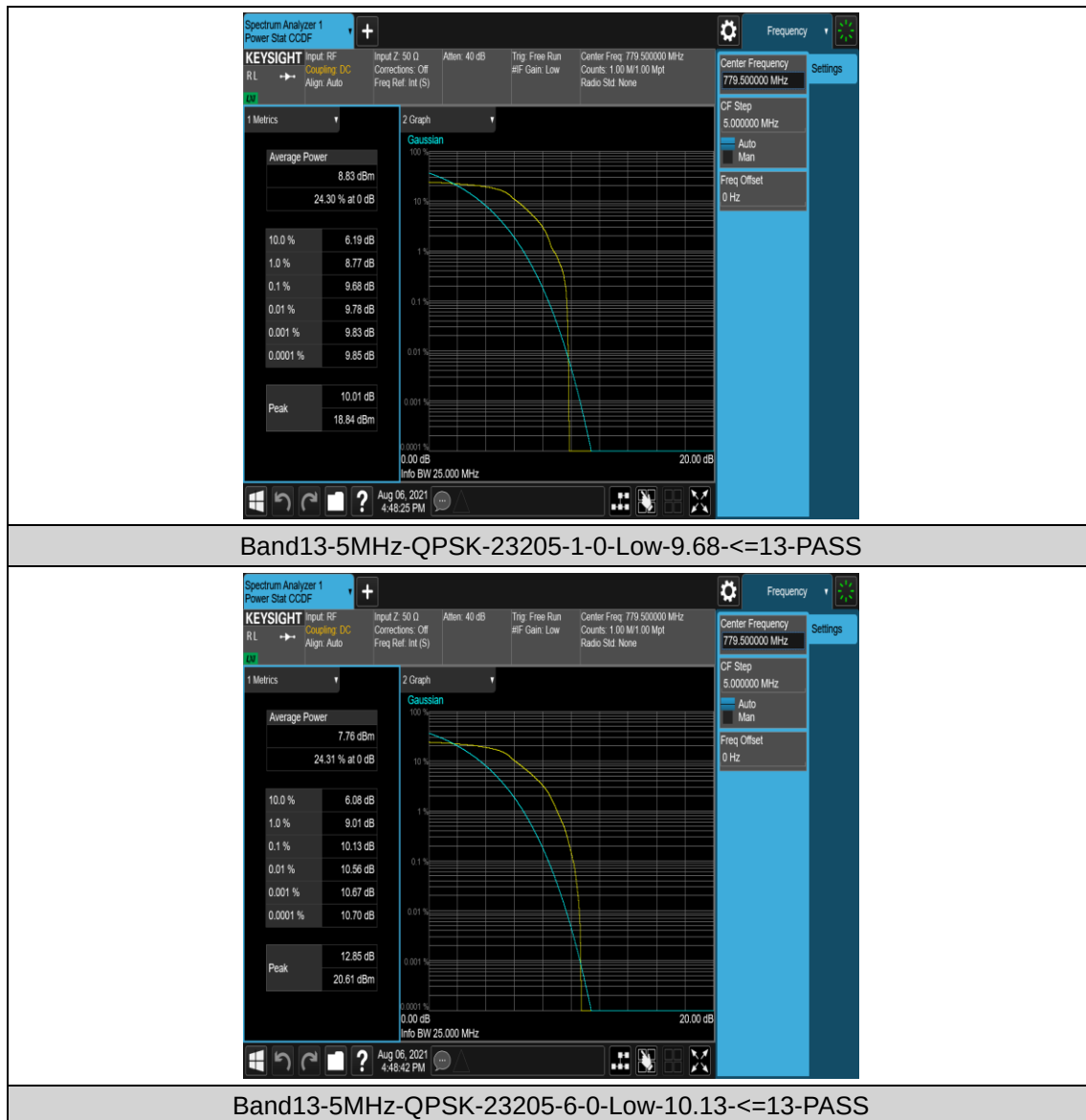
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	22.28	PASS
Band13	5MHz	23205	QPSK	1	5	Low	21.94	PASS
Band13	5MHz	23205	QPSK	6	0	Low	21.12	PASS
Band13	5MHz	23230	QPSK	1	0	Low	22.09	PASS
Band13	5MHz	23230	QPSK	1	5	Low	21.75	PASS
Band13	5MHz	23230	QPSK	6	0	Low	20.92	PASS
Band13	5MHz	23255	QPSK	1	0	High	22.50	PASS
Band13	5MHz	23255	QPSK	1	5	High	22.25	PASS
Band13	5MHz	23255	QPSK	6	0	High	21.27	PASS
Band13	5MHz	23205	16QAM	1	0	Low	22.33	PASS
Band13	5MHz	23205	16QAM	1	5	Low	21.81	PASS
Band13	5MHz	23205	16QAM	6	0	Low	20.97	PASS
Band13	5MHz	23230	16QAM	1	0	Low	21.81	PASS
Band13	5MHz	23230	16QAM	1	5	Low	21.59	PASS
Band13	5MHz	23230	16QAM	6	0	Low	20.92	PASS
Band13	5MHz	23255	16QAM	1	0	High	22.71	PASS
Band13	5MHz	23255	16QAM	1	5	High	22.47	PASS
Band13	5MHz	23255	16QAM	6	0	High	21.07	PASS
Band13	10MHz	23230	QPSK	1	0	Low	21.94	PASS
Band13	10MHz	23230	QPSK	1	5	Low	21.66	PASS
Band13	10MHz	23230	QPSK	6	0	Low	20.80	PASS
Band13	10MHz	23230	16QAM	1	0	Low	21.81	PASS
Band13	10MHz	23230	16QAM	1	5	Low	21.49	PASS
Band13	10MHz	23230	16QAM	6	0	Low	20.81	PASS

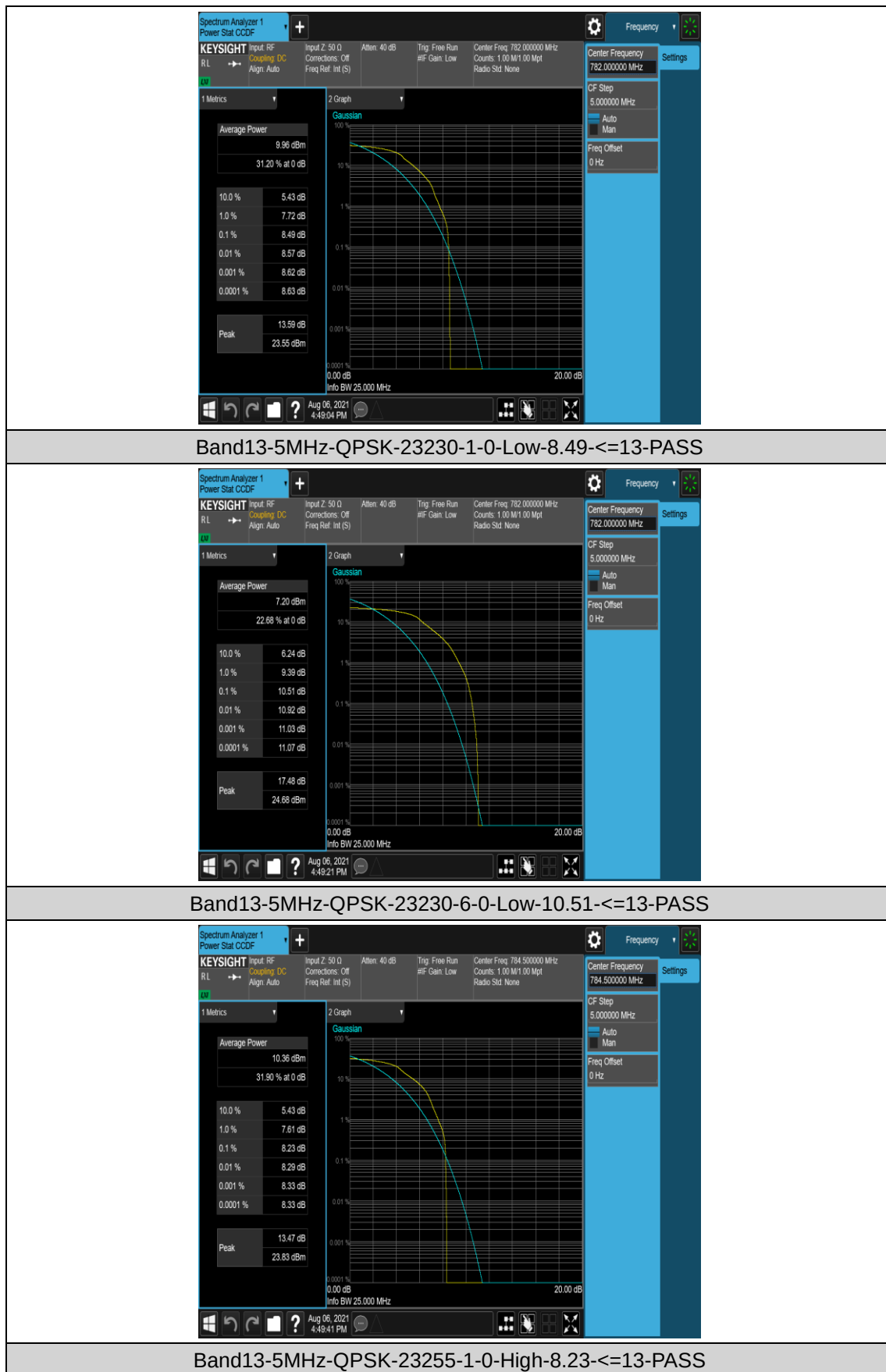
Appendix B: Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	23205	QPSK	1	0	9.68	<=13	PASS
Band13	5MHz	23205	QPSK	6	0	10.13	<=13	PASS
Band13	5MHz	23230	QPSK	1	0	8.49	<=13	PASS
Band13	5MHz	23230	QPSK	6	0	10.51	<=13	PASS
Band13	5MHz	23255	QPSK	1	0	8.23	<=13	PASS
Band13	5MHz	23255	QPSK	6	0	11.18	<=13	PASS
Band13	5MHz	23205	16QAM	1	0	10.74	<=13	PASS
Band13	5MHz	23205	16QAM	6	0	9.73	<=13	PASS
Band13	5MHz	23230	16QAM	1	0	10.53	<=13	PASS
Band13	5MHz	23230	16QAM	6	0	11.23	<=13	PASS
Band13	5MHz	23255	16QAM	1	0	11.22	<=13	PASS
Band13	5MHz	23255	16QAM	6	0	7.90	<=13	PASS
Band13	10MHz	23230	QPSK	1	0	11.28	<=13	PASS
Band13	10MHz	23230	QPSK	6	0	10.73	<=13	PASS
Band13	10MHz	23230	16QAM	1	0	11.09	<=13	PASS
Band13	10MHz	23230	16QAM	6	0	11.25	<=13	PASS

Test Graphs



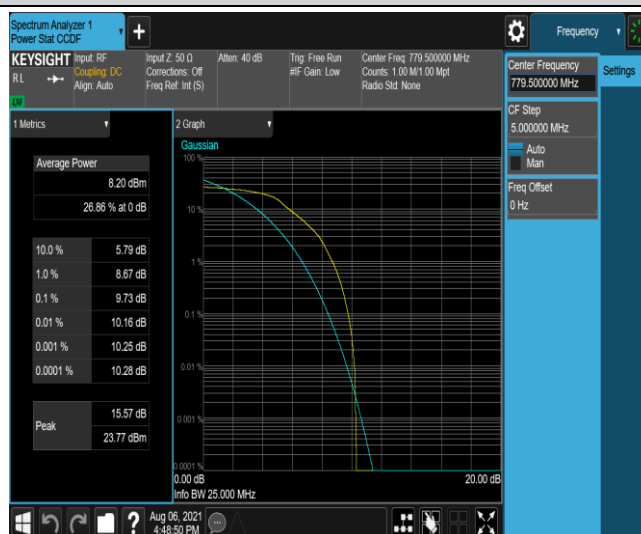




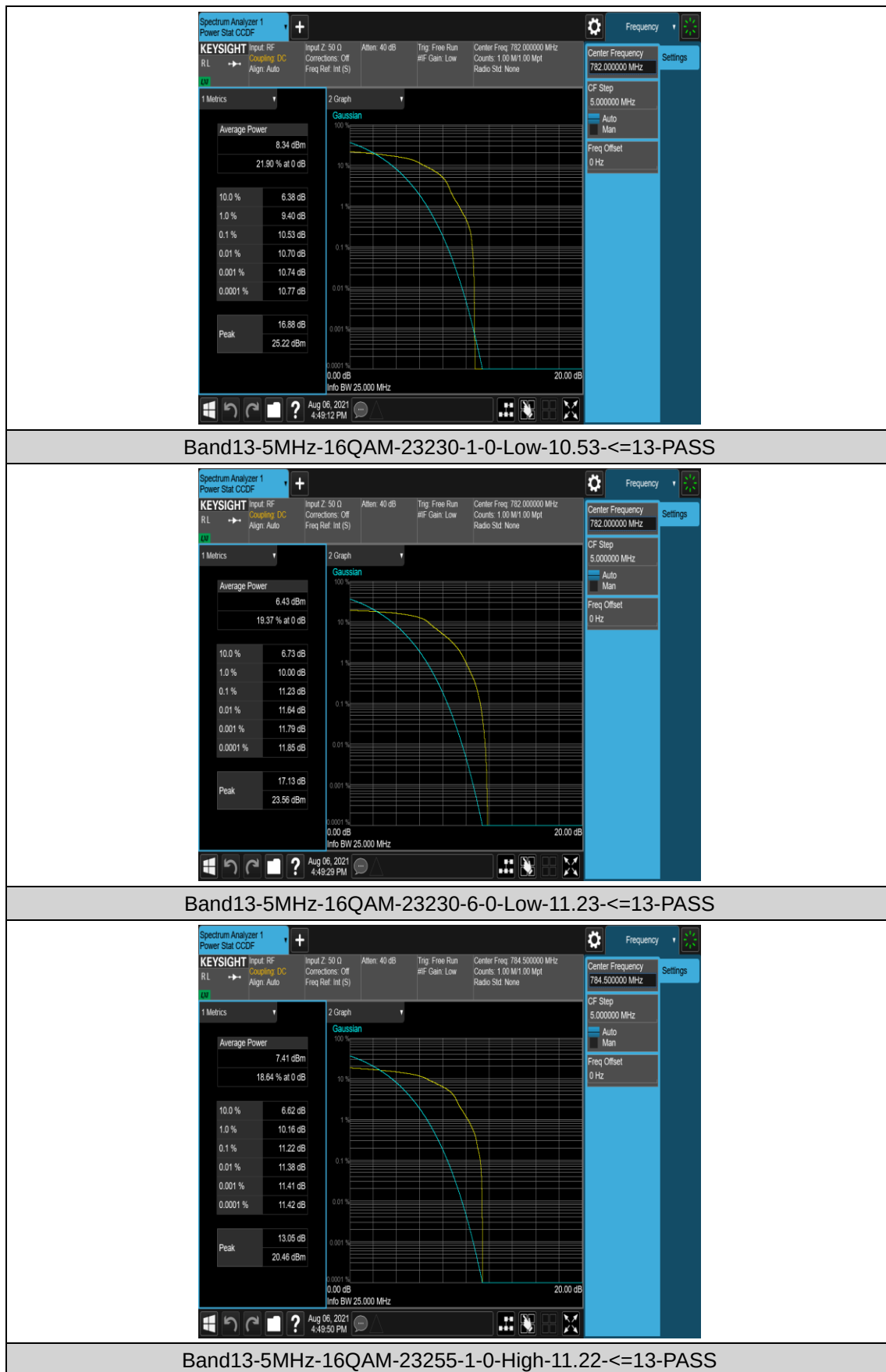
Band13-5MHz-QPSK-23255-6-0-High-11.18-<=13-PASS



Band13-5MHz-16QAM-23205-1-0-Low-10.74-<=13-PASS



Band13-5MHz-16QAM-23205-6-0-Low-9.73-<=13-PASS





Band13-5MHz-16QAM-23255-6-0-High-7.90-<=13-PASS



Band13-10MHz-QPSK-23230-1-0-Low-11.28-<=13-PASS



Band13-10MHz-QPSK-23230-6-0-Low-10.73-<=13-PASS



Band13-10MHz-16QAM-23230-1-0-Low-11.09-<=13-PASS



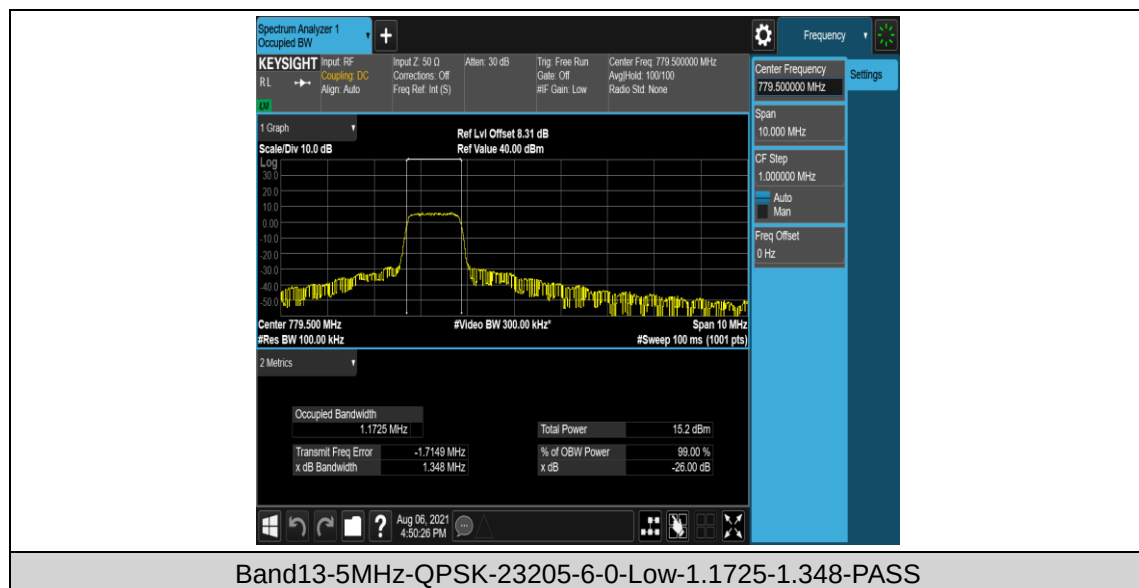
Band13-10MHz-16QAM-23230-6-0-Low-11.25-<=13-PASS

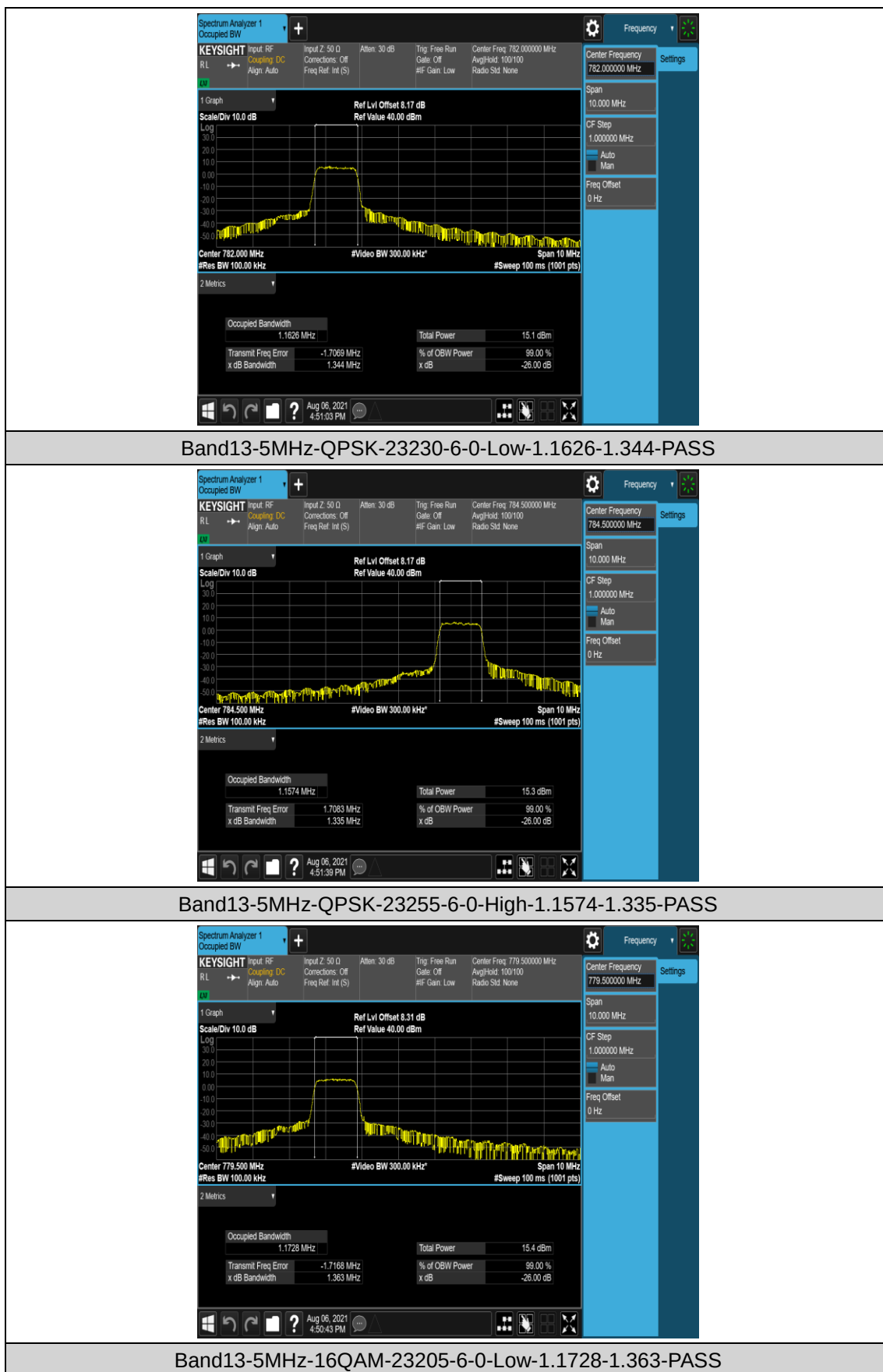
Appendix C: 26dB Bandwidth and Occupied Bandwidth for M1

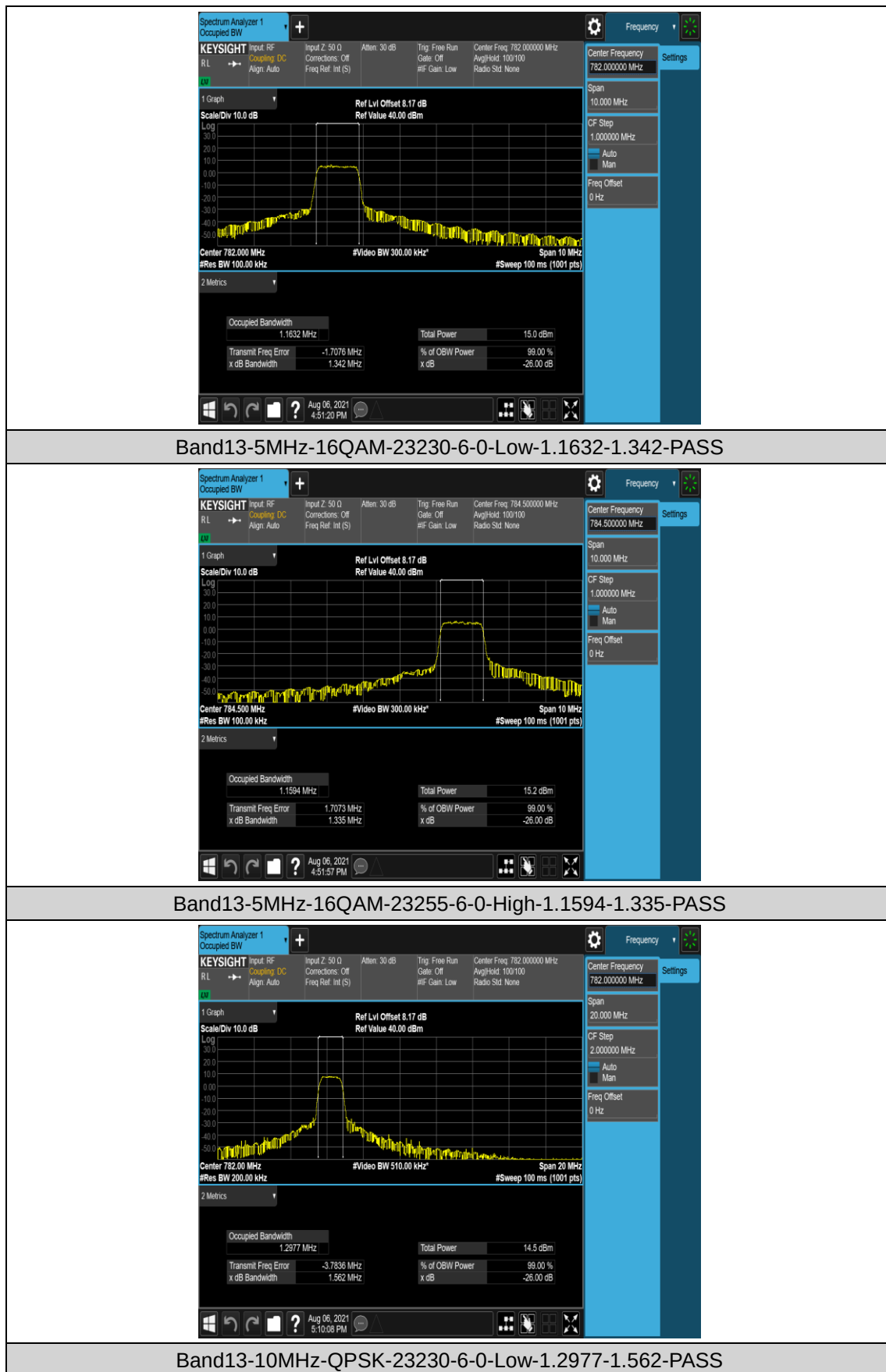
Test Result

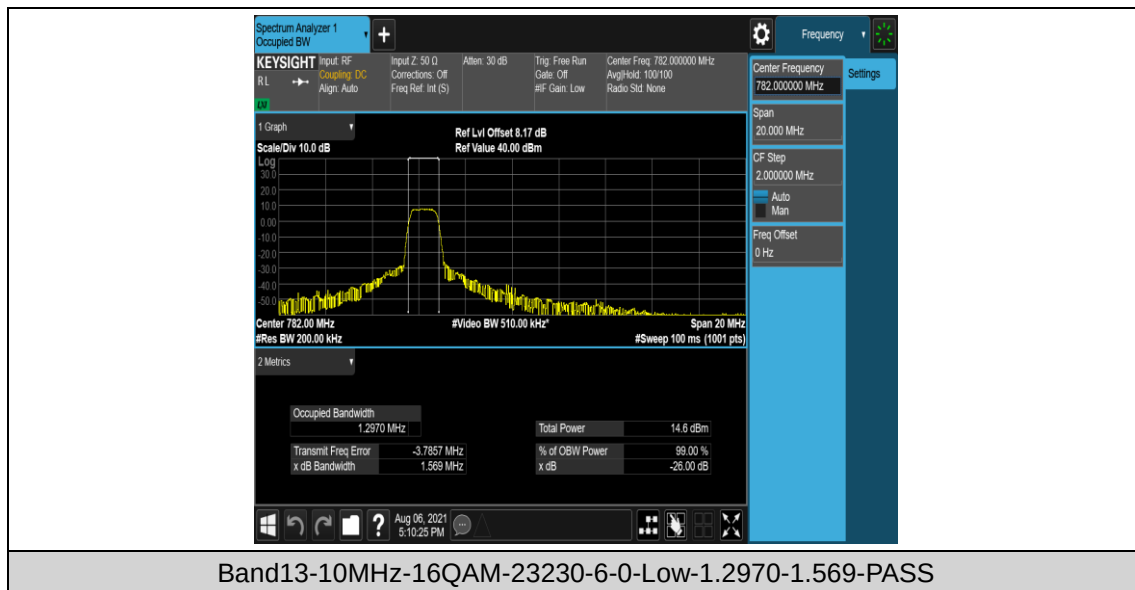
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	23205	QPSK	6	0	1.1725	1.348	PASS
Band13	5MHz	23230	QPSK	6	0	1.1626	1.344	PASS
Band13	5MHz	23255	QPSK	6	0	1.1574	1.335	PASS
Band13	5MHz	23205	16QAM	6	0	1.1728	1.363	PASS
Band13	5MHz	23230	16QAM	6	0	1.1632	1.342	PASS
Band13	5MHz	23255	16QAM	6	0	1.1594	1.335	PASS
Band13	10MHz	23230	QPSK	6	0	1.2977	1.562	PASS
Band13	10MHz	23230	16QAM	6	0	1.2970	1.569	PASS

Test Graphs







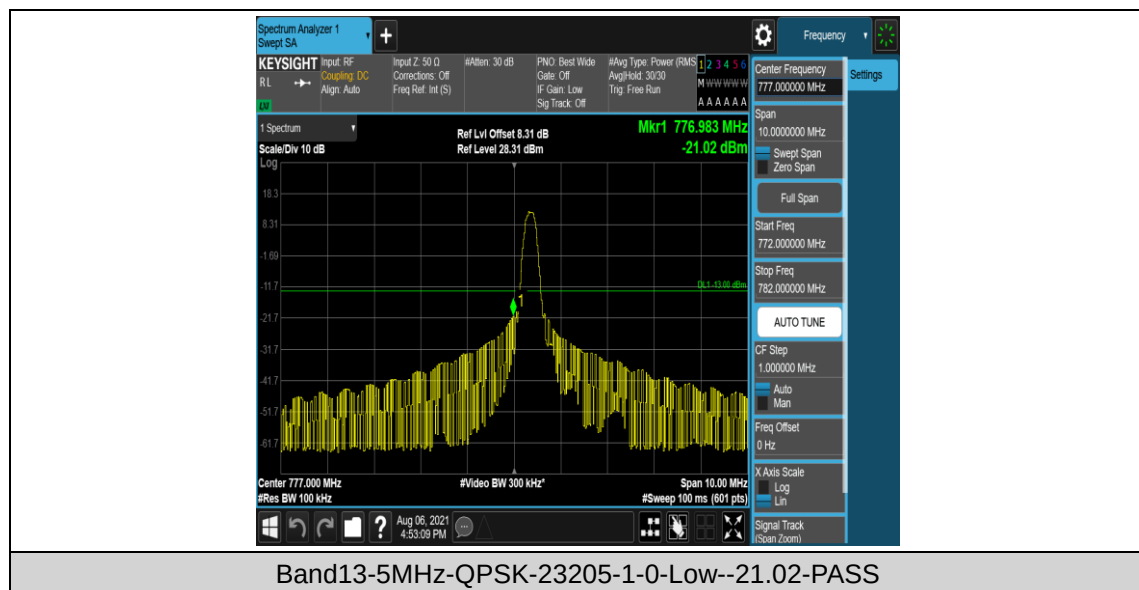


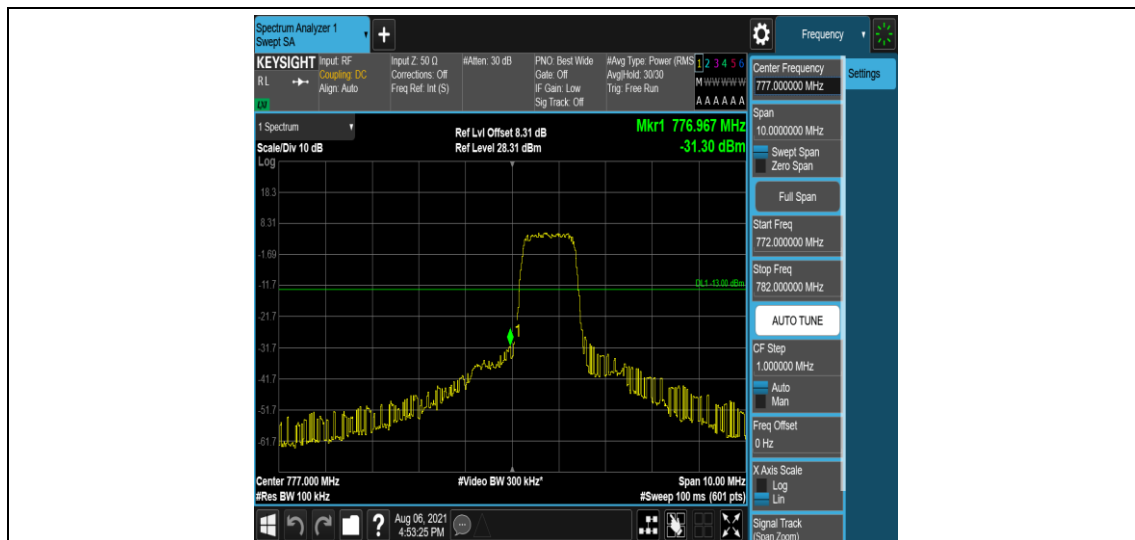
Appendix D: Band Edge for M1

Test Result

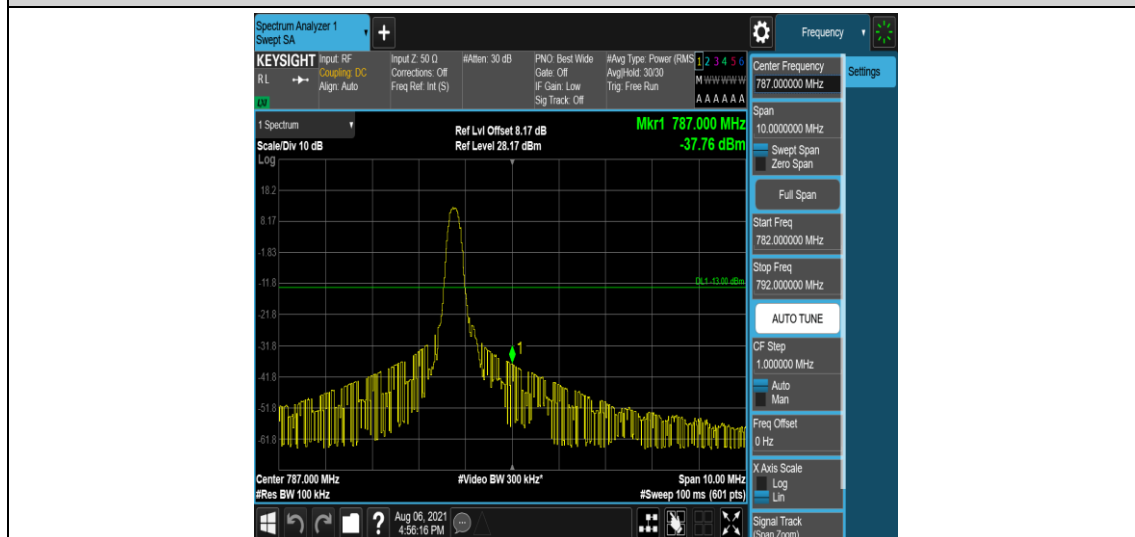
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	-21.02	PASS
Band13	5MHz	23205	QPSK	6	0	Low	-31.30	PASS
Band13	5MHz	23255	QPSK	1	0	High	-37.76	PASS
Band13	5MHz	23255	QPSK	6	0	High	-29.10	PASS
Band13	5MHz	23205	16QAM	1	0	Low	-21.49	PASS
Band13	5MHz	23205	16QAM	6	0	Low	-30.76	PASS
Band13	5MHz	23255	16QAM	1	0	High	-42.37	PASS
Band13	5MHz	23255	16QAM	6	0	High	-27.78	PASS

Test Graphs





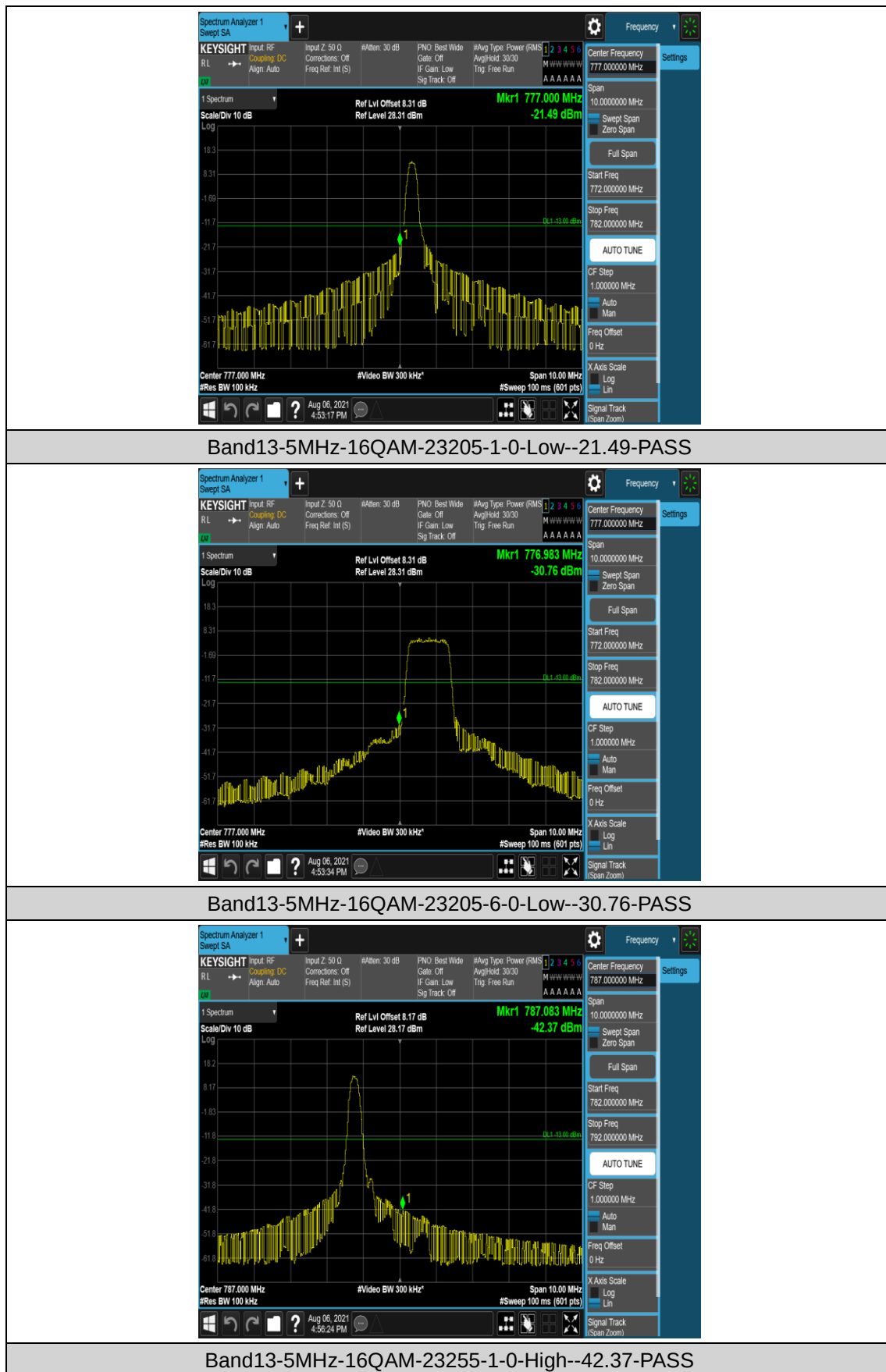
Band13-5MHz-QPSK-23205-6-0-Low--31.30-PASS

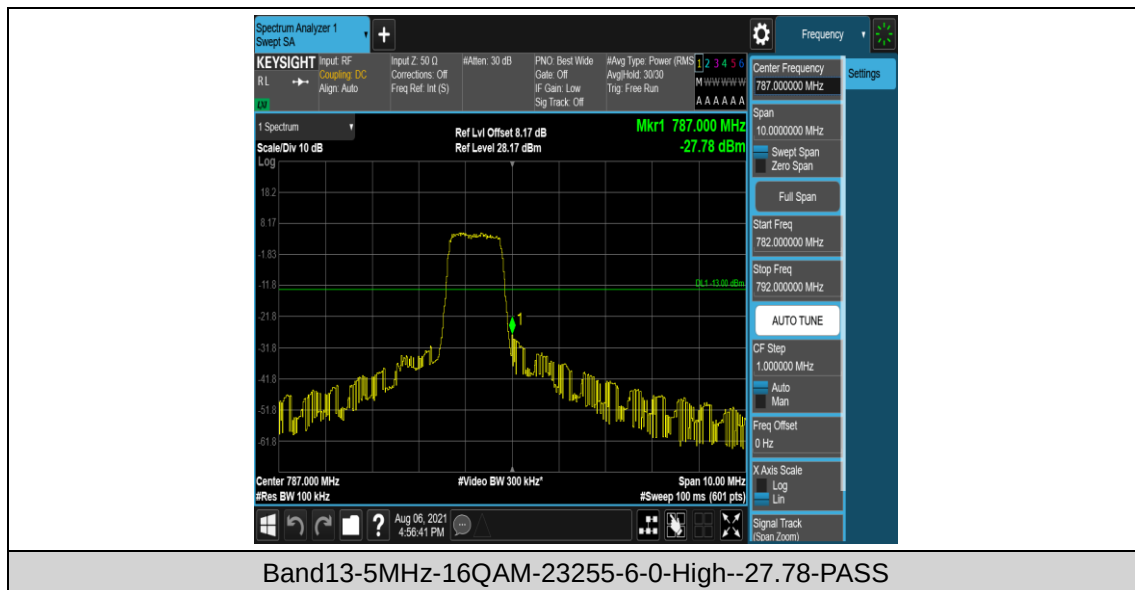


Band13-5MHz-QPSK-23255-1-0-High--37.76-PASS



Band13-5MHz-QPSK-23255-6-0-High--29.10-PASS





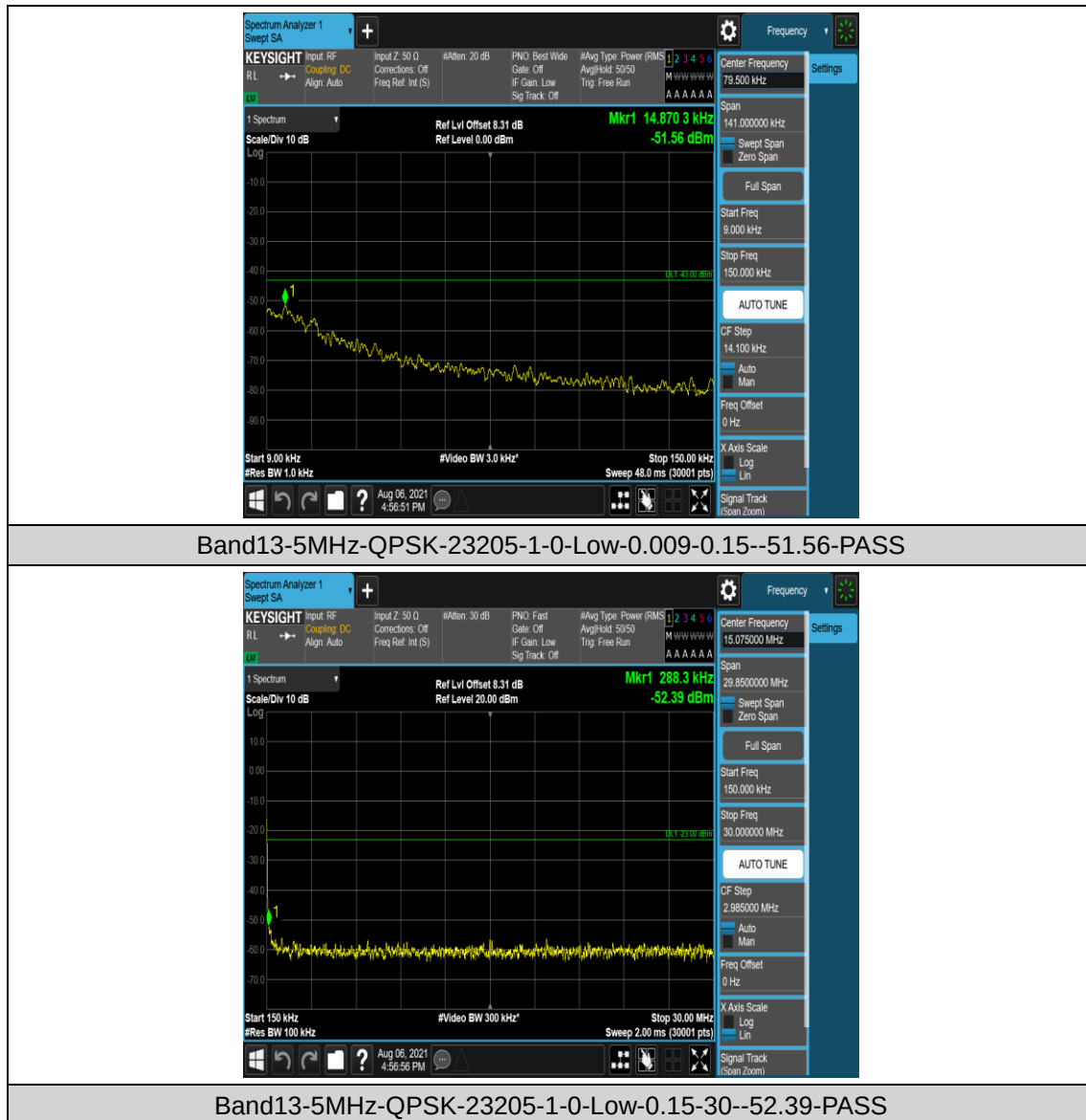
Appendix E: Conducted Spurious Emission for M1

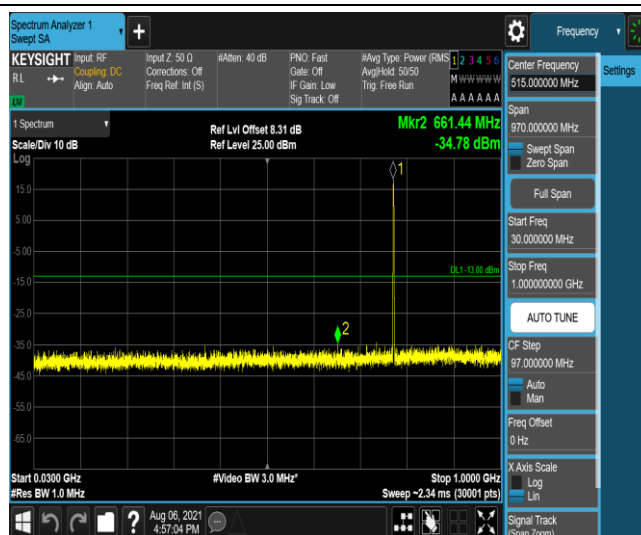
Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Start Freq	Stop Freq	Result (dBm)	Verdict
Band13	5MHz	23205	QPSK	1	0	0.009	0.15	-51.56	PASS
Band13	5MHz	23205	QPSK	1	0	0.15	30	-52.39	PASS
Band13	5MHz	23205	QPSK	1	0	30	1000	-34.78	PASS
Band13	5MHz	23205	QPSK	1	0	1000	5000	-36.62	PASS
Band13	5MHz	23205	QPSK	1	0	5000	12000	-57.92	PASS
Band13	5MHz	23205	QPSK	1	0	12000	26500	-52.46	PASS
Band13	5MHz	23230	QPSK	1	0	0.009	0.15	-52.79	PASS
Band13	5MHz	23230	QPSK	1	0	0.15	30	-50.65	PASS
Band13	5MHz	23230	QPSK	1	0	30	1000	-34.18	PASS
Band13	5MHz	23230	QPSK	1	0	1000	5000	-36.89	PASS
Band13	5MHz	23230	QPSK	1	0	5000	12000	-58.02	PASS
Band13	5MHz	23230	QPSK	1	0	12000	26500	-52.42	PASS
Band13	5MHz	23255	QPSK	1	0	0.009	0.15	-53.06	PASS
Band13	5MHz	23255	QPSK	1	0	0.15	30	-51.69	PASS
Band13	5MHz	23255	QPSK	1	0	30	1000	-35.37	PASS
Band13	5MHz	23255	QPSK	1	0	1000	5000	-36.78	PASS
Band13	5MHz	23255	QPSK	1	0	5000	12000	-58.07	PASS
Band13	5MHz	23255	QPSK	1	0	12000	26500	-52.41	PASS
Band13	5MHz	23205	16QAM	1	0	0.009	0.15	-52.29	PASS
Band13	5MHz	23205	16QAM	1	0	0.15	30	-50.52	PASS
Band13	5MHz	23205	16QAM	1	0	30	1000	-34.62	PASS
Band13	5MHz	23205	16QAM	1	0	1000	5000	-36.72	PASS
Band13	5MHz	23205	16QAM	1	0	5000	12000	-57.79	PASS
Band13	5MHz	23205	16QAM	1	0	12000	26500	-52.38	PASS
Band13	5MHz	23230	16QAM	1	0	0.009	0.15	-51.67	PASS
Band13	5MHz	23230	16QAM	1	0	0.15	30	-49.16	PASS
Band13	5MHz	23230	16QAM	1	0	30	1000	-33.66	PASS
Band13	5MHz	23230	16QAM	1	0	1000	5000	-36.84	PASS
Band13	5MHz	23230	16QAM	1	0	5000	12000	-58.16	PASS
Band13	5MHz	23230	16QAM	1	0	12000	26500	-52.6	PASS
Band13	5MHz	23255	16QAM	1	0	0.009	0.15	-51.67	PASS
Band13	5MHz	23255	16QAM	1	0	0.15	30	-52.14	PASS
Band13	5MHz	23255	16QAM	1	0	30	1000	-35.12	PASS
Band13	5MHz	23255	16QAM	1	0	1000	5000	-36.82	PASS

Band13	5MHz	23255	16QAM	1	0	5000	12000	-57.88	PASS
Band13	5MHz	23255	16QAM	1	0	12000	26500	-52.59	PASS

Test Graphs





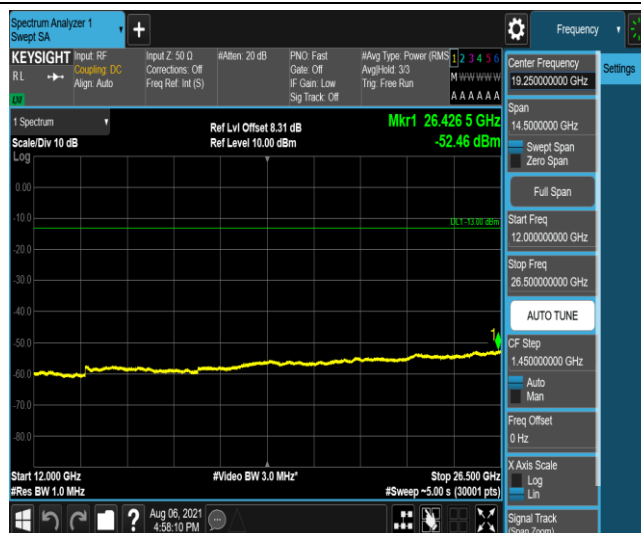
Band13-5MHz-QPSK-23205-1-0-Low-30-1000--34.78-PASS



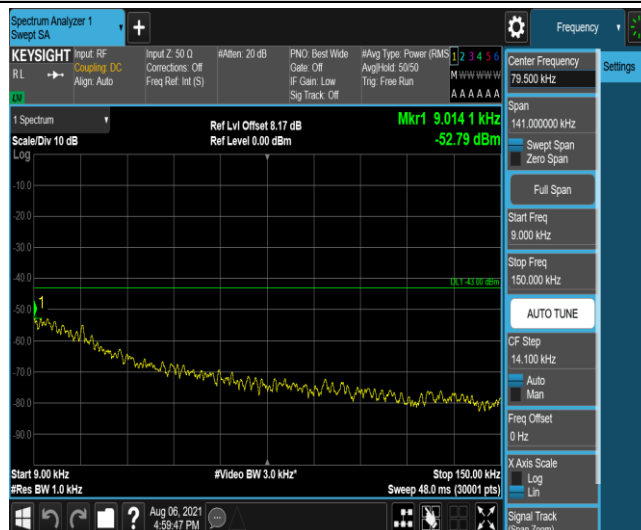
Band13-5MHz-QPSK-23205-1-0-Low-1000-5000--36.62-PASS



Band13-5MHz-QPSK-23205-1-0-Low-5000-12000--57.92-PASS



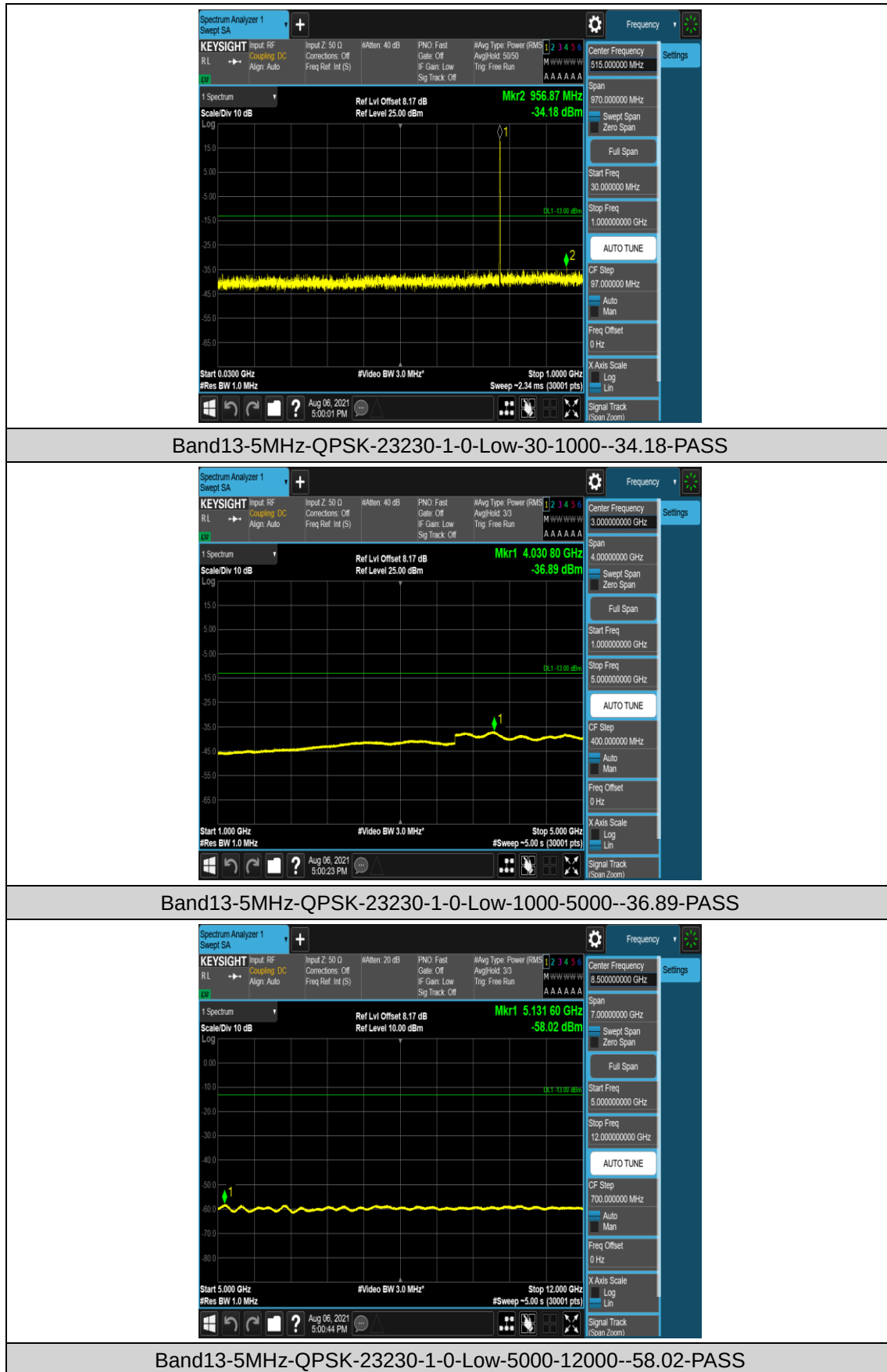
Band13-5MHz-QPSK-23205-1-0-Low-12000-26500--52.46-PASS



Band13-5MHz-QPSK-23230-1-0-Low-0.009-0.15--52.79-PASS

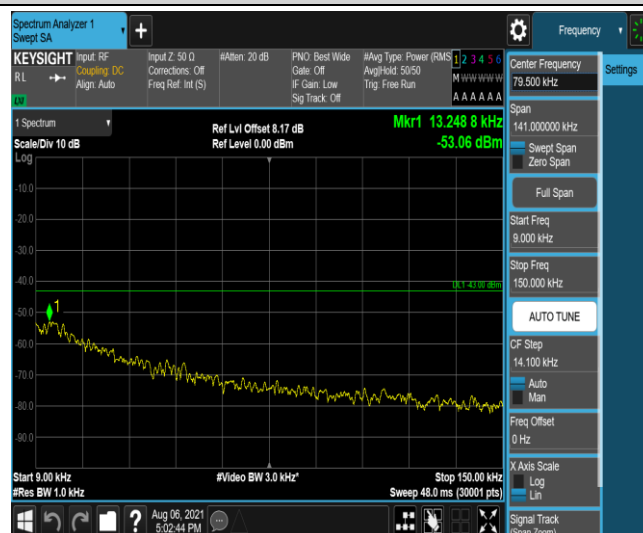


Band13-5MHz-QPSK-23230-1-0-Low-0.15-30--50.65-PASS





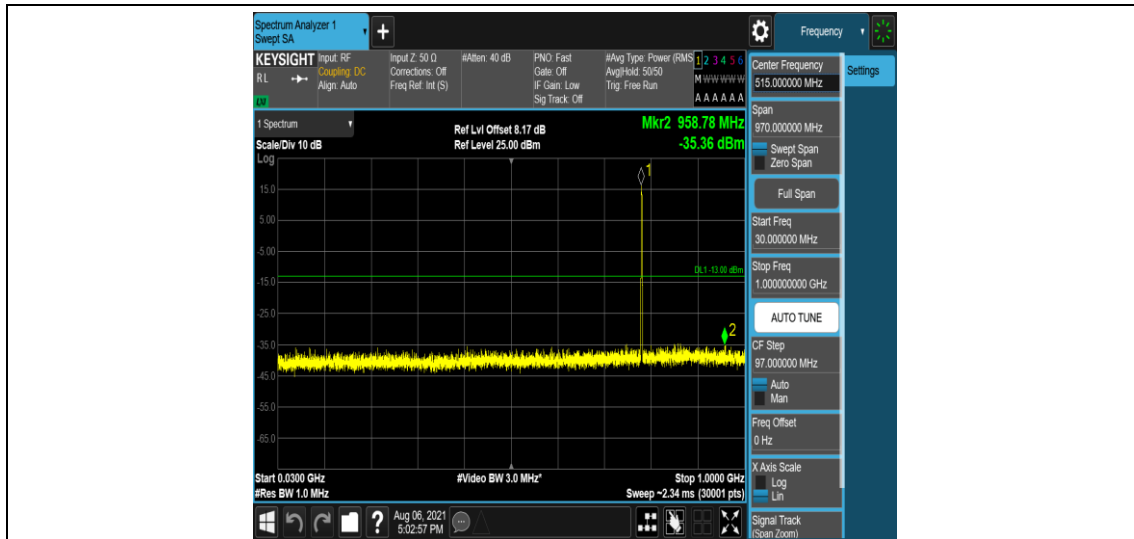
Band13-5MHz-QPSK-23230-1-0-Low-12000-26500--52.42-PASS



Band13-5MHz-QPSK-23255-1-0-High-0.009-0.15--53.06-PASS



Band13-5MHz-QPSK-23255-1-0-High-0.15-30--51.69-PASS



Band13-5MHz-QPSK-23255-1-0-High-30-1000--35.37-PASS



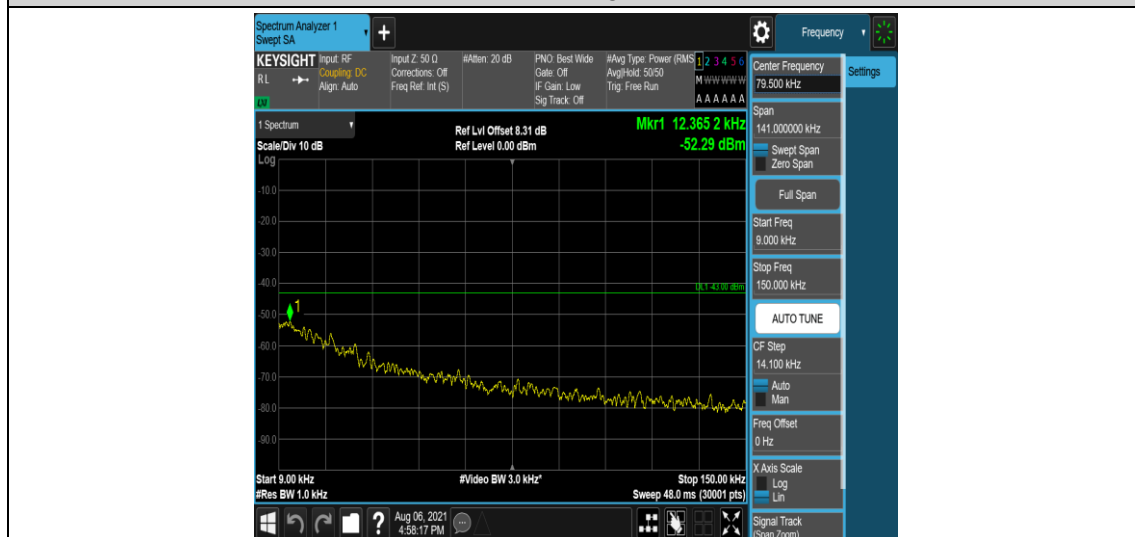
Band13-5MHz-QPSK-23255-1-0-High-1000-5000--36.78-PASS



Band13-5MHz-QPSK-23255-1-0-High-5000-12000--58.07-PASS



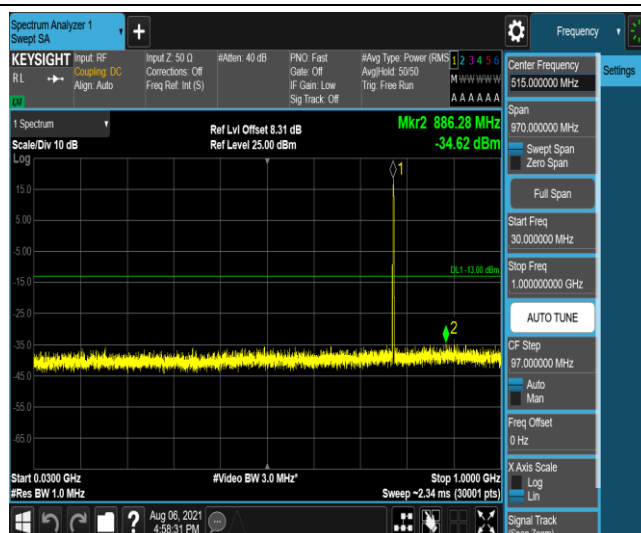
Band13-5MHz-QPSK-23255-1-0-High-12000-26500--52.41-PASS



Band13-5MHz-16QAM-23205-1-0-Low-0.009-0.15--52.29-PASS



Band13-5MHz-16QAM-23205-1-0-Low-0.15-30--50.52-PASS



Band13-5MHz-16QAM-23205-1-0-Low-30-1000--34.62-PASS



Band13-5MHz-16QAM-23205-1-0-Low-1000-5000--36.72-PASS



Band13-5MHz-16QAM-23205-1-0-Low-5000-12000--57.79-PASS