

Appendix for Band 12

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	Result(dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	22.99	PASS
Band12	1.4MHz	23017	QPSK	1	5	22.60	PASS
Band12	1.4MHz	23017	QPSK	6	0	20.62	PASS
Band12	1.4MHz	23095	QPSK	1	0	22.88	PASS
Band12	1.4MHz	23095	QPSK	1	5	22.80	PASS
Band12	1.4MHz	23095	QPSK	6	0	20.82	PASS
Band12	1.4MHz	23173	QPSK	1	0	22.74	PASS
Band12	1.4MHz	23173	QPSK	1	5	22.58	PASS
Band12	1.4MHz	23173	QPSK	6	0	20.94	PASS
Band12	1.4MHz	23017	16QAM	1	0	21.77	PASS
Band12	1.4MHz	23017	16QAM	1	5	21.46	PASS
Band12	1.4MHz	23017	16QAM	6	0	20.62	PASS
Band12	1.4MHz	23095	16QAM	1	0	21.80	PASS
Band12	1.4MHz	23095	16QAM	1	5	21.77	PASS
Band12	1.4MHz	23095	16QAM	6	0	20.61	PASS
Band12	1.4MHz	23173	16QAM	1	0	21.76	PASS
Band12	1.4MHz	23173	16QAM	1	5	21.68	PASS
Band12	1.4MHz	23173	16QAM	6	0	20.62	PASS
Band12	3MHz	23025	QPSK	1	0	22.86	PASS
Band12	3MHz	23025	QPSK	1	5	22.73	PASS
Band12	3MHz	23025	QPSK	6	0	20.71	PASS
Band12	3MHz	23095	QPSK	1	0	22.61	PASS
Band12	3MHz	23095	QPSK	1	5	22.46	PASS
Band12	3MHz	23095	QPSK	6	0	20.71	PASS
Band12	3MHz	23165	QPSK	1	0	22.89	PASS
Band12	3MHz	23165	QPSK	1	5	22.69	PASS
Band12	3MHz	23165	QPSK	6	0	20.86	PASS
Band12	3MHz	23025	16QAM	1	0	21.73	PASS
Band12	3MHz	23025	16QAM	1	5	21.66	PASS
Band12	3MHz	23025	16QAM	6	0	20.53	PASS
Band12	3MHz	23095	16QAM	1	0	21.63	PASS
Band12	3MHz	23095	16QAM	1	5	21.54	PASS
Band12	3MHz	23095	16QAM	6	0	20.52	PASS
Band12	3MHz	23165	16QAM	1	0	22.03	PASS
Band12	3MHz	23165	16QAM	1	5	21.82	PASS
Band12	3MHz	23165	16QAM	6	0	20.67	PASS

Band12	5MHz	23035	QPSK	1	0	22.86	PASS
Band12	5MHz	23035	QPSK	1	5	22.66	PASS
Band12	5MHz	23035	QPSK	6	0	21.60	PASS
Band12	5MHz	23095	QPSK	1	0	22.86	PASS
Band12	5MHz	23095	QPSK	1	5	22.36	PASS
Band12	5MHz	23095	QPSK	6	0	21.66	PASS
Band12	5MHz	23155	QPSK	1	0	23.00	PASS
Band12	5MHz	23155	QPSK	1	5	22.52	PASS
Band12	5MHz	23155	QPSK	6	0	21.35	PASS
Band12	5MHz	23035	16QAM	1	0	22.49	PASS
Band12	5MHz	23035	16QAM	1	5	22.39	PASS
Band12	5MHz	23035	16QAM	6	0	21.43	PASS
Band12	5MHz	23095	16QAM	1	0	22.82	PASS
Band12	5MHz	23095	16QAM	1	5	22.69	PASS
Band12	5MHz	23095	16QAM	6	0	21.39	PASS
Band12	5MHz	23155	16QAM	1	0	22.61	PASS
Band12	5MHz	23155	16QAM	1	5	22.24	PASS
Band12	5MHz	23155	16QAM	6	0	21.48	PASS
Band12	10MHz	23060	QPSK	1	0	22.65	PASS
Band12	10MHz	23060	QPSK	1	5	22.40	PASS
Band12	10MHz	23060	QPSK	6	0	21.60	PASS
Band12	10MHz	23095	QPSK	1	0	22.66	PASS
Band12	10MHz	23095	QPSK	1	5	22.59	PASS
Band12	10MHz	23095	QPSK	6	0	21.48	PASS
Band12	10MHz	23130	QPSK	1	0	23.02	PASS
Band12	10MHz	23130	QPSK	1	5	22.54	PASS
Band12	10MHz	23130	QPSK	6	0	21.22	PASS
Band12	10MHz	23060	16QAM	1	0	22.46	PASS
Band12	10MHz	23060	16QAM	1	5	22.31	PASS
Band12	10MHz	23060	16QAM	6	0	21.38	PASS
Band12	10MHz	23095	16QAM	1	0	22.67	PASS
Band12	10MHz	23095	16QAM	1	5	22.51	PASS
Band12	10MHz	23095	16QAM	6	0	21.36	PASS
Band12	10MHz	23130	16QAM	1	0	22.54	PASS
Band12	10MHz	23130	16QAM	1	5	22.27	PASS
Band12	10MHz	23130	16QAM	6	0	21.38	PASS

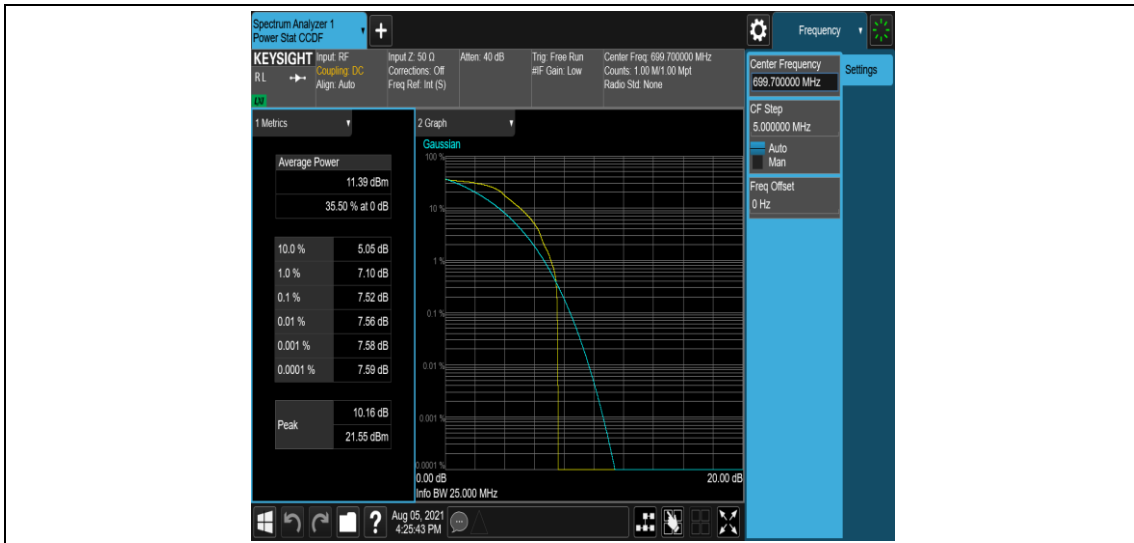
Appendix B: Peak-to-Average Ratio(CCDF) for M1

Test Result

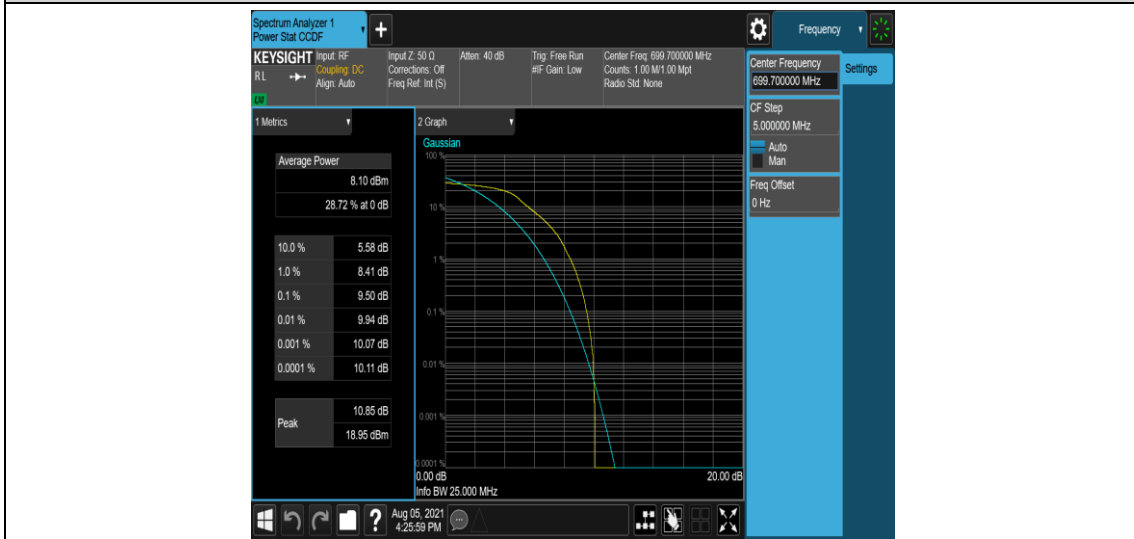
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	7.52	<=13	PASS
Band12	1.4MHz	23017	QPSK	6	0	9.50	<=13	PASS
Band12	1.4MHz	23095	QPSK	1	0	6.98	<=13	PASS
Band12	1.4MHz	23095	QPSK	6	0	8.97	<=13	PASS
Band12	1.4MHz	23173	QPSK	1	0	9.54	<=13	PASS
Band12	1.4MHz	23173	QPSK	6	0	11.51	<=13	PASS
Band12	1.4MHz	23017	16QAM	1	0	10.26	<=13	PASS
Band12	1.4MHz	23017	16QAM	6	0	9.51	<=13	PASS
Band12	1.4MHz	23095	16QAM	1	0	10.21	<=13	PASS
Band12	1.4MHz	23095	16QAM	6	0	9.65	<=13	PASS
Band12	1.4MHz	23173	16QAM	1	0	11.42	<=13	PASS
Band12	1.4MHz	23173	16QAM	6	0	9.28	<=13	PASS
Band12	3MHz	23025	QPSK	1	0	8.04	<=13	PASS
Band12	3MHz	23025	QPSK	6	0	8.78	<=13	PASS
Band12	3MHz	23095	QPSK	1	0	10.77	<=13	PASS
Band12	3MHz	23095	QPSK	6	0	9.84	<=13	PASS
Band12	3MHz	23165	QPSK	1	0	9.34	<=13	PASS
Band12	3MHz	23165	QPSK	6	0	9.77	<=13	PASS
Band12	3MHz	23025	16QAM	1	0	11.68	<=13	PASS
Band12	3MHz	23025	16QAM	6	0	10.13	<=13	PASS
Band12	3MHz	23095	16QAM	1	0	11.83	<=13	PASS
Band12	3MHz	23095	16QAM	6	0	11.48	<=13	PASS
Band12	3MHz	23165	16QAM	1	0	10.18	<=13	PASS
Band12	3MHz	23165	16QAM	6	0	8.72	<=13	PASS
Band12	5MHz	23035	QPSK	1	0	8.03	<=13	PASS
Band12	5MHz	23035	QPSK	6	0	9.05	<=13	PASS
Band12	5MHz	23095	QPSK	1	0	9.53	<=13	PASS
Band12	5MHz	23095	QPSK	6	0	10.42	<=13	PASS
Band12	5MHz	23155	QPSK	1	0	8.74	<=13	PASS
Band12	5MHz	23155	QPSK	6	0	9.15	<=13	PASS
Band12	5MHz	23035	16QAM	1	0	9.93	<=13	PASS
Band12	5MHz	23035	16QAM	6	0	10.68	<=13	PASS
Band12	5MHz	23095	16QAM	1	0	10.67	<=13	PASS
Band12	5MHz	23095	16QAM	6	0	9.00	<=13	PASS

Band12	5MHz	23155	16QAM	1	0	9.49	<=13	PASS
Band12	5MHz	23155	16QAM	6	0	9.39	<=13	PASS
Band12	10MHz	23060	QPSK	1	0	9.06	<=13	PASS
Band12	10MHz	23060	QPSK	6	0	8.88	<=13	PASS
Band12	10MHz	23095	QPSK	1	0	8.85	<=13	PASS
Band12	10MHz	23095	QPSK	6	0	9.35	<=13	PASS
Band12	10MHz	23130	QPSK	1	0	9.29	<=13	PASS
Band12	10MHz	23130	QPSK	6	0	9.90	<=13	PASS
Band12	10MHz	23060	16QAM	1	0	11.16	<=13	PASS
Band12	10MHz	23060	16QAM	6	0	11.31	<=13	PASS
Band12	10MHz	23095	16QAM	1	0	8.66	<=13	PASS
Band12	10MHz	23095	16QAM	6	0	9.90	<=13	PASS
Band12	10MHz	23130	16QAM	1	0	9.15	<=13	PASS
Band12	10MHz	23130	16QAM	6	0	8.37	<=13	PASS

Test Graphs



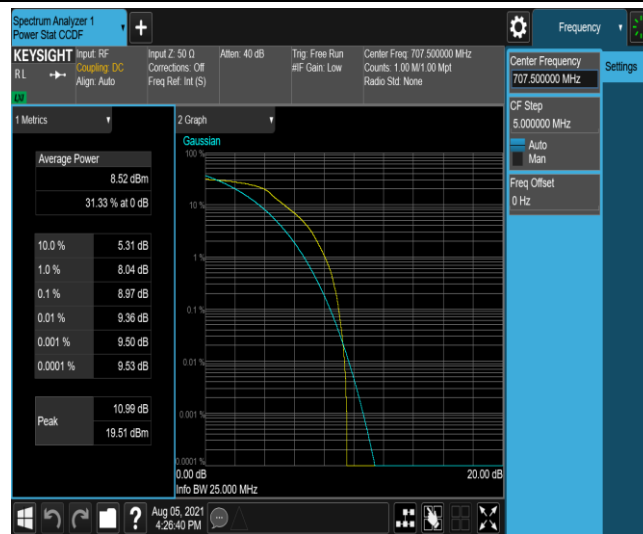
Band12-1.4MHz-QPSK-23017-1-0-Low-7.52-<=13-PASS



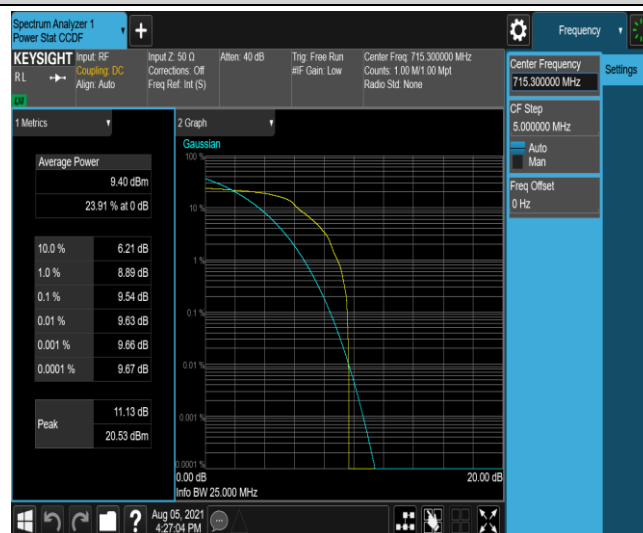
Band12-1.4MHz-QPSK-23017-6-0-Low-9.50-<=13-PASS



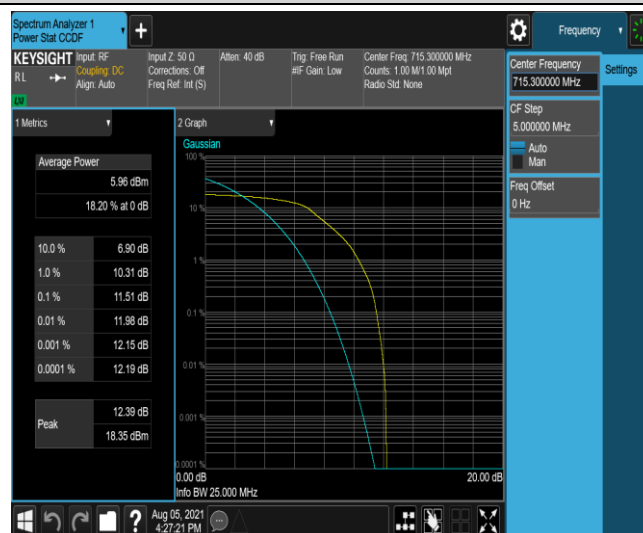
Band12-1.4MHz-QPSK-23095-1-0-Low-6.98-<=13-PASS



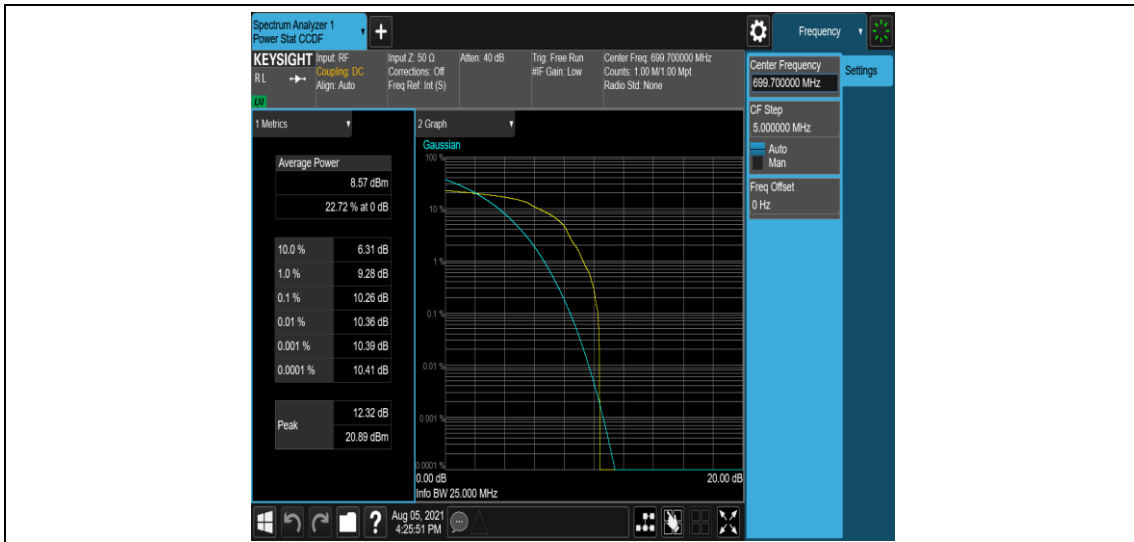
Band12-1.4MHz-QPSK-23095-6-0-Low-8.97-<=13-PASS



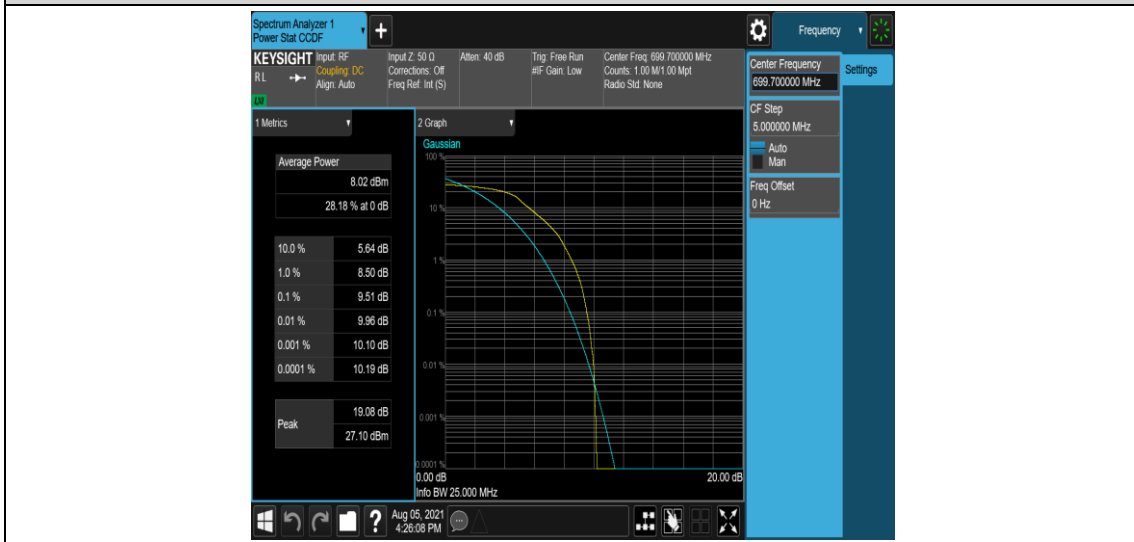
Band12-1.4MHz-QPSK-23173-1-0-High-9.54-<=13-PASS



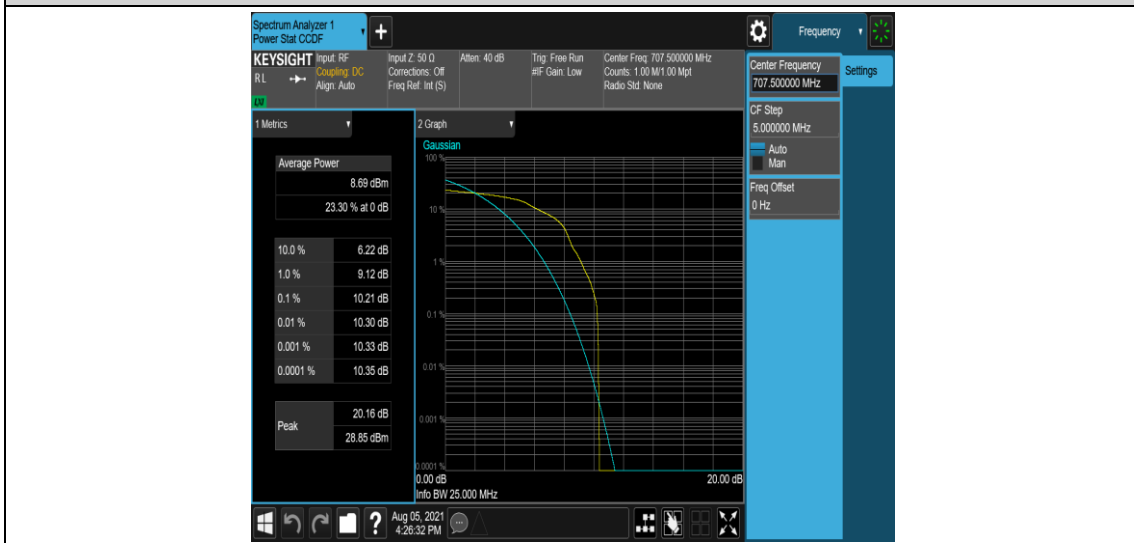
Band12-1.4MHz-QPSK-23173-6-0-High-11.51-<=13-PASS



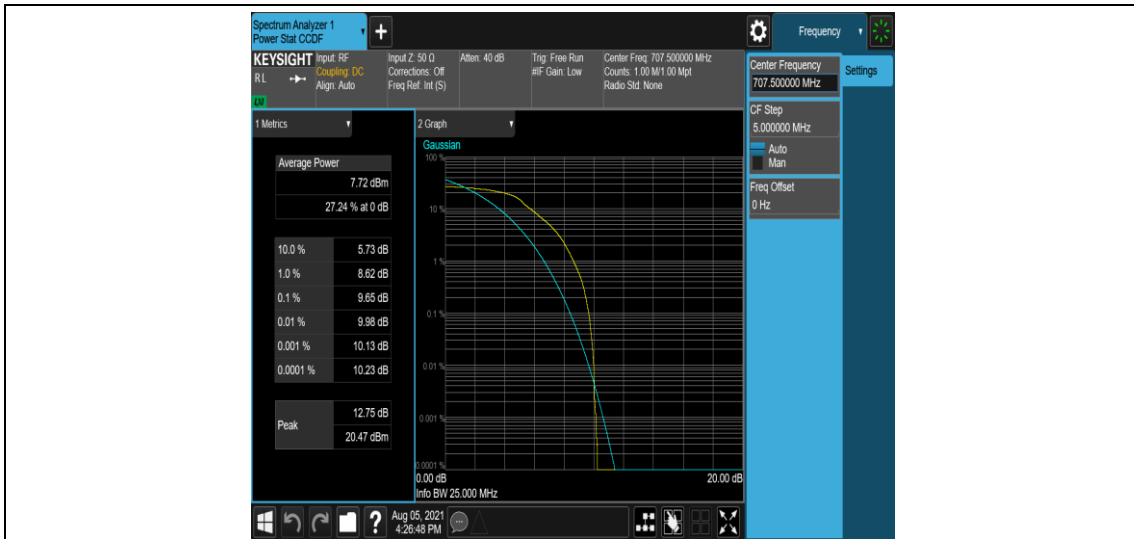
Band12-1.4MHz-16QAM-23017-1-0-Low-10.26-<=13-PASS



Band12-1.4MHz-16QAM-23017-6-0-Low-9.51-<=13-PASS



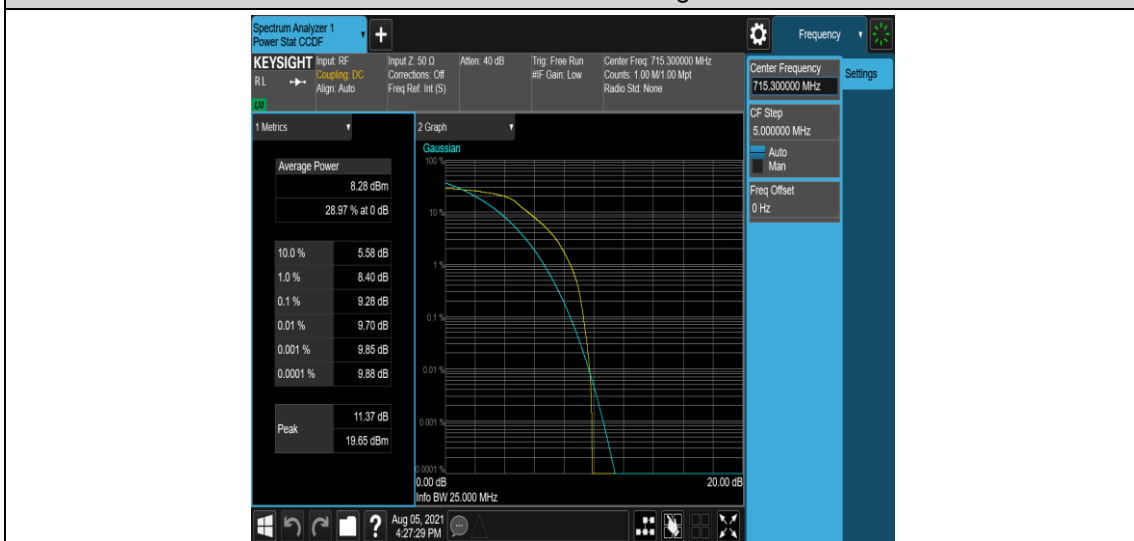
Band12-1.4MHz-16QAM-23095-1-0-Low-10.21-<=13-PASS



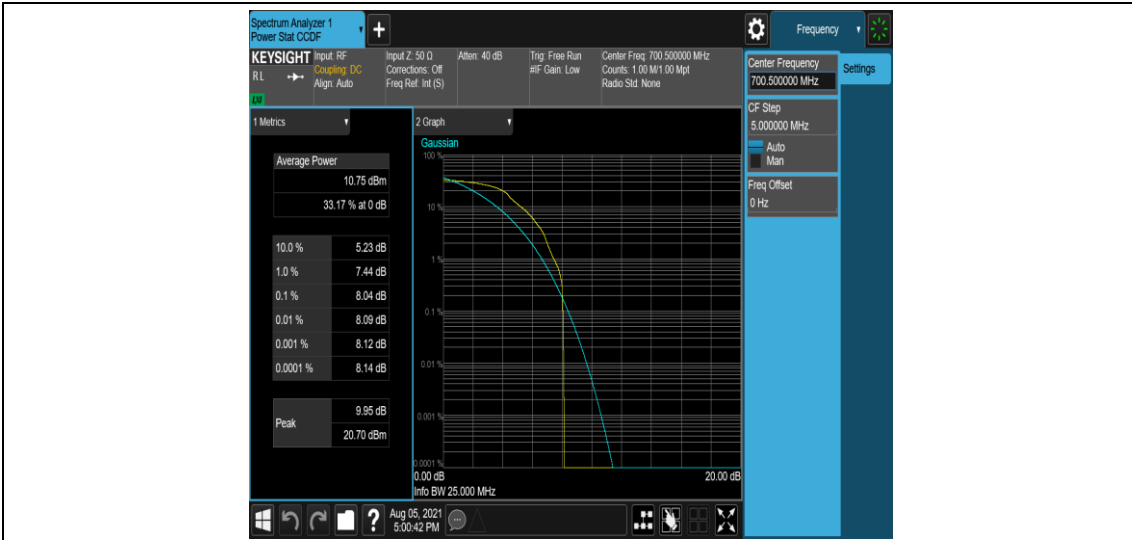
Band12-1.4MHz-16QAM-23095-6-0-Low-9.65-<=13-PASS



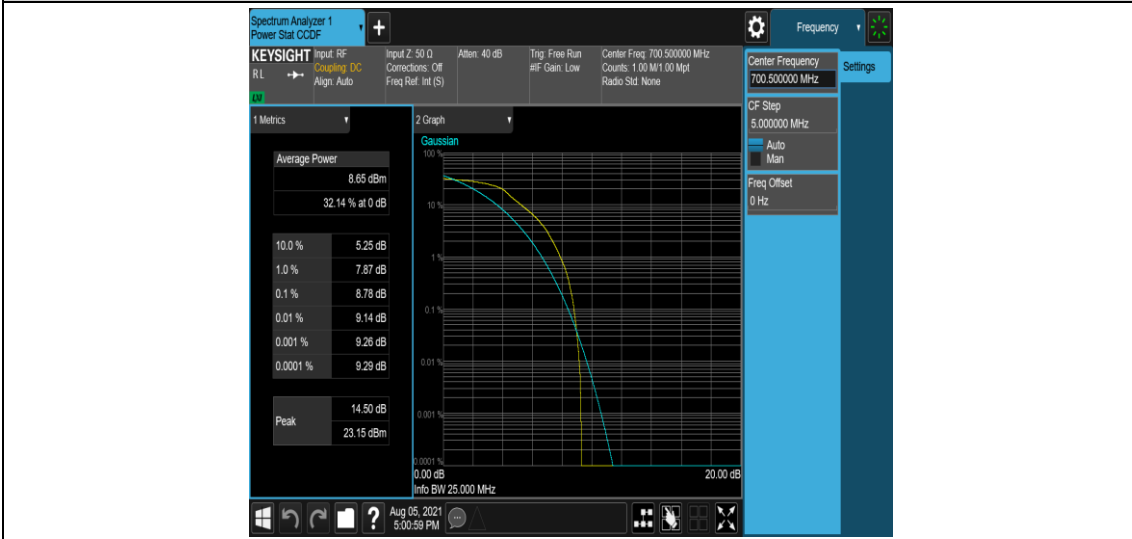
Band12-1.4MHz-16QAM-23173-1-0-High-11.42-<=13-PASS



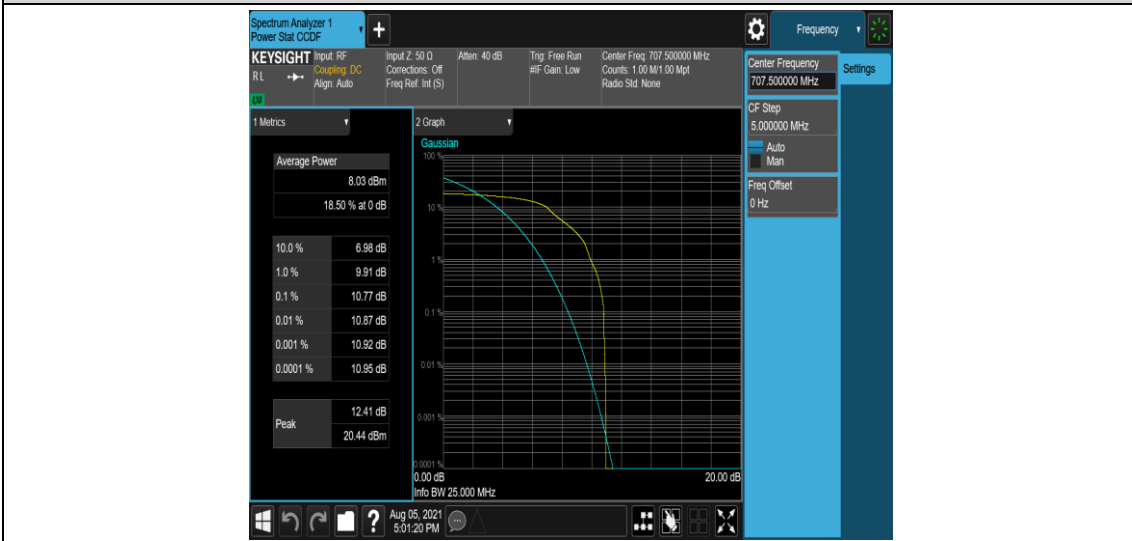
Band12-1.4MHz-16QAM-23173-6-0-High-9.28-<=13-PASS



Band12-3MHz-QPSK-23025-1-0-Low-8.04-<=13-PASS



Band12-3MHz-QPSK-23025-6-0-Low-8.78-<=13-PASS



Band12-3MHz-QPSK-23095-1-0-Low-10.77-<=13-PASS



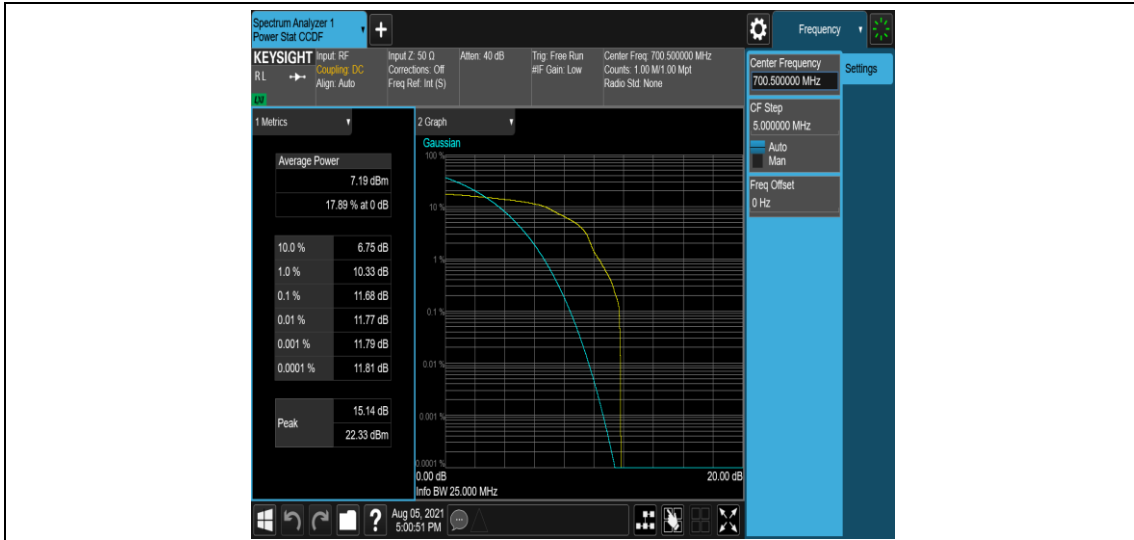
Band12-3MHz-QPSK-23095-6-0-Low-9.84-<=13-PASS



Band12-3MHz-QPSK-23165-1-0-High-9.34-<=13-PASS



Band12-3MHz-QPSK-23165-6-0-High-9.77-<=13-PASS



Band12-3MHz-16QAM-23025-1-0-Low-11.68-<=13-PASS



Band12-3MHz-16QAM-23025-6-0-Low-10.13-<=13-PASS



Band12-3MHz-16QAM-23095-1-0-Low-11.83-<=13-PASS



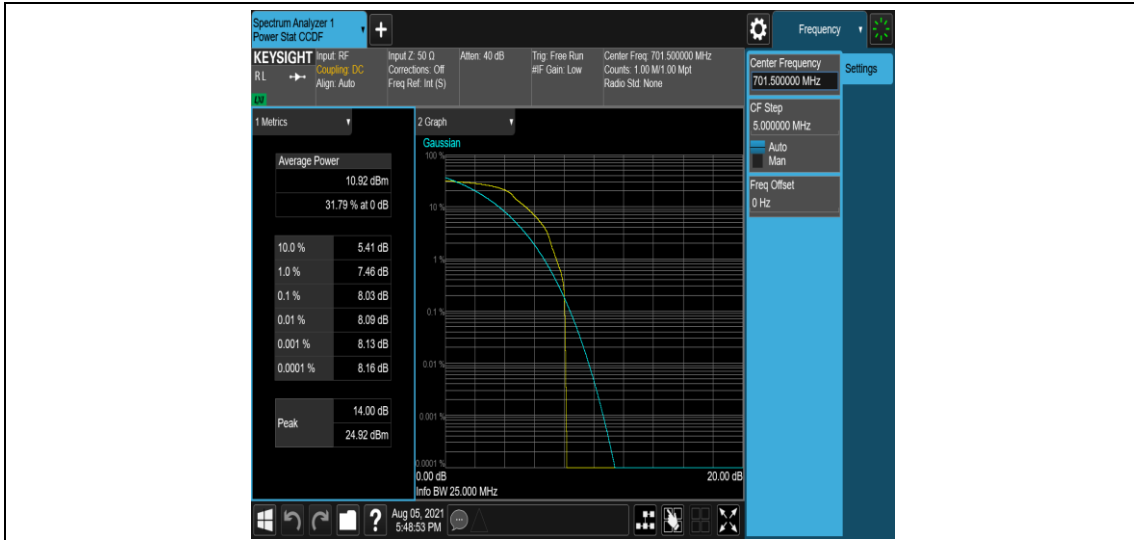
Band12-3MHz-16QAM-23095-6-0-Low-11.48-<=13-PASS



Band12-3MHz-16QAM-23165-1-0-High-10.18-<=13-PASS



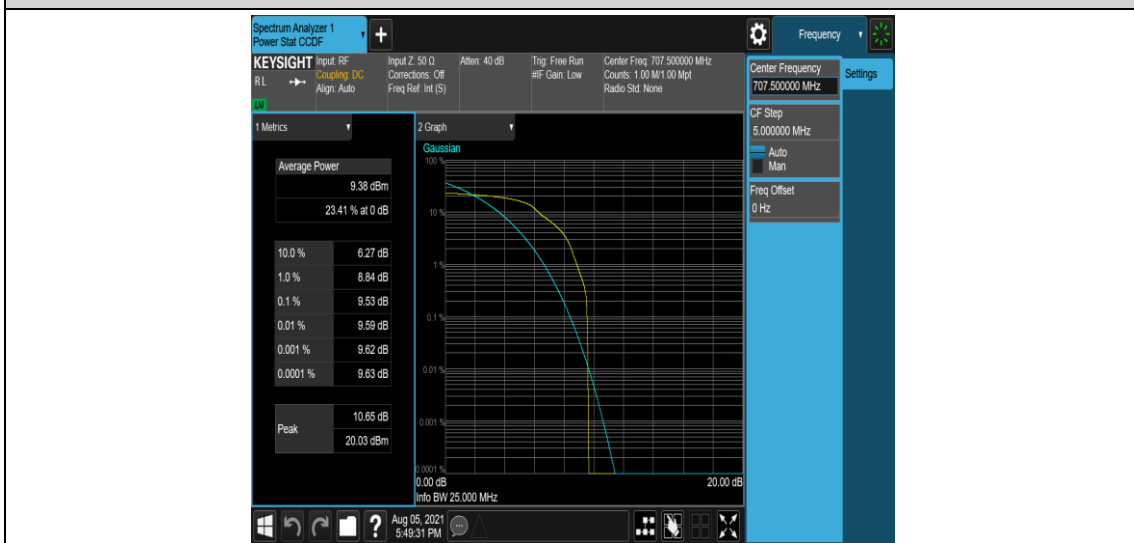
Band12-3MHz-16QAM-23165-6-0-High-8.72-<=13-PASS



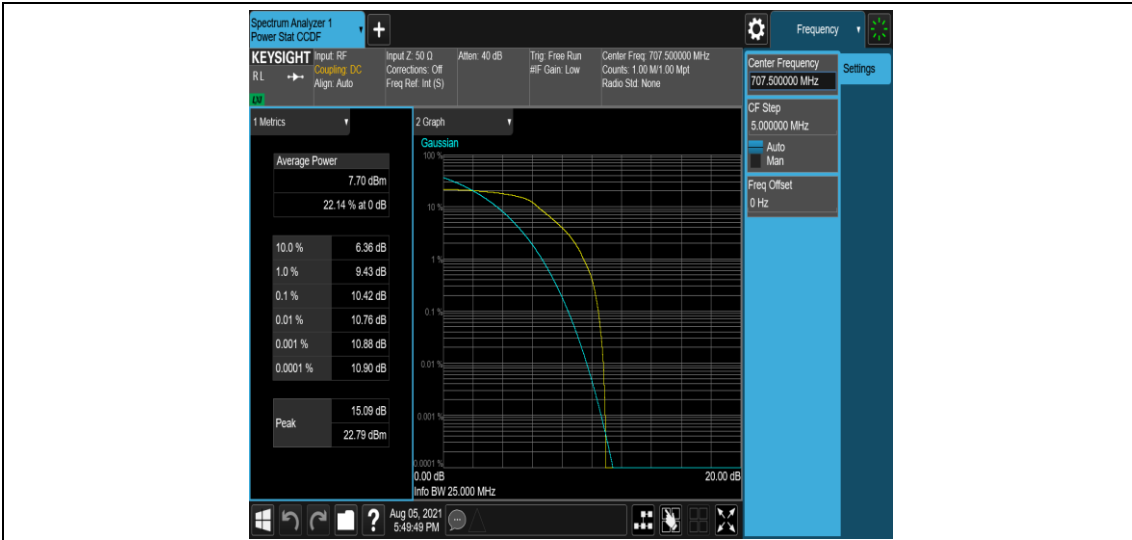
Band12-5MHz-QPSK-23035-1-0-Low-8.03-<=13-PASS



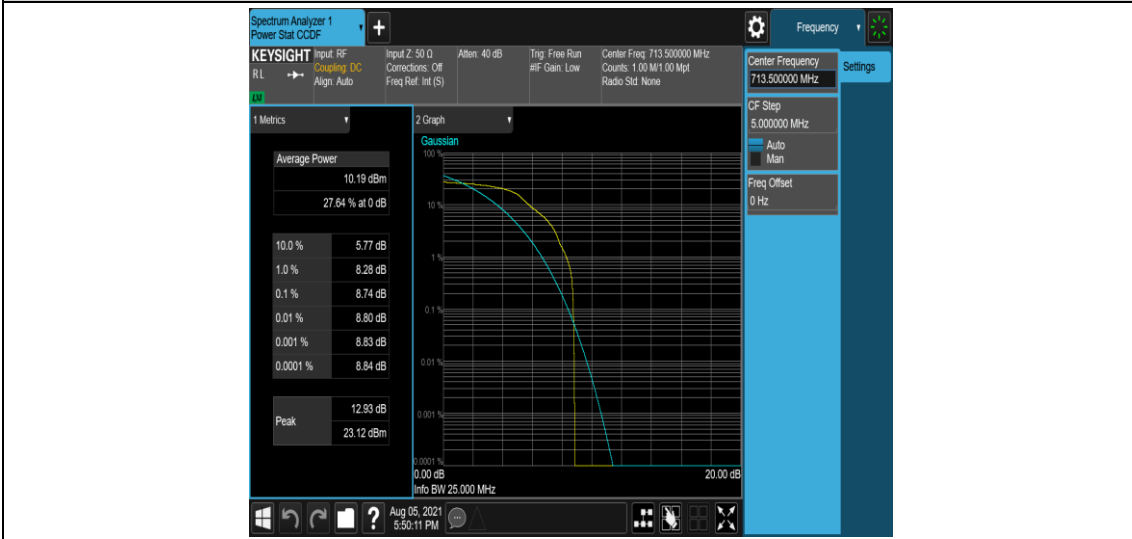
Band12-5MHz-QPSK-23035-6-0-Low-9.05-<=13-PASS



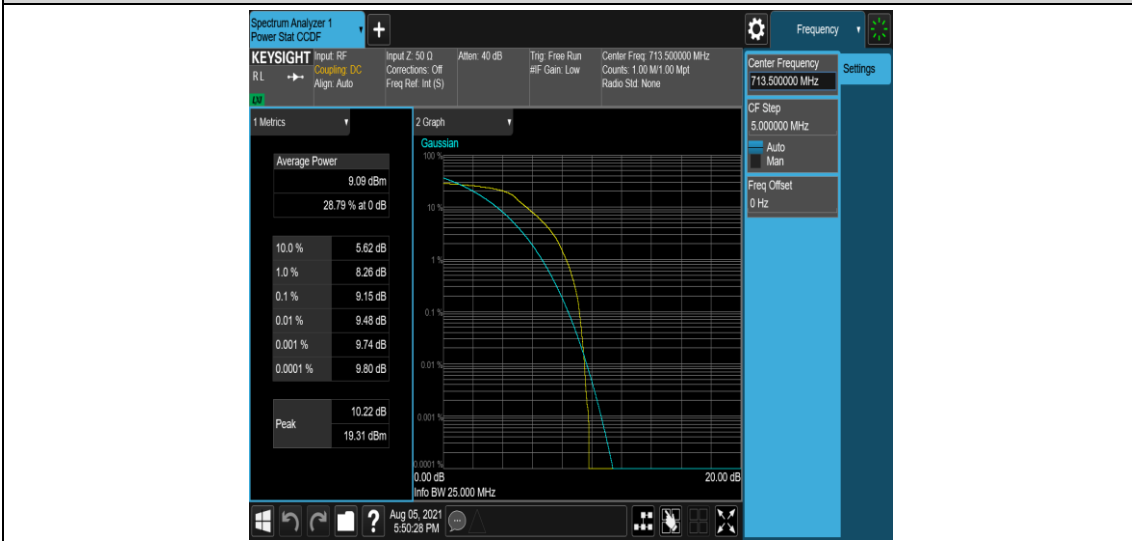
Band12-5MHz-QPSK-23095-1-0-Low-9.53-<=13-PASS



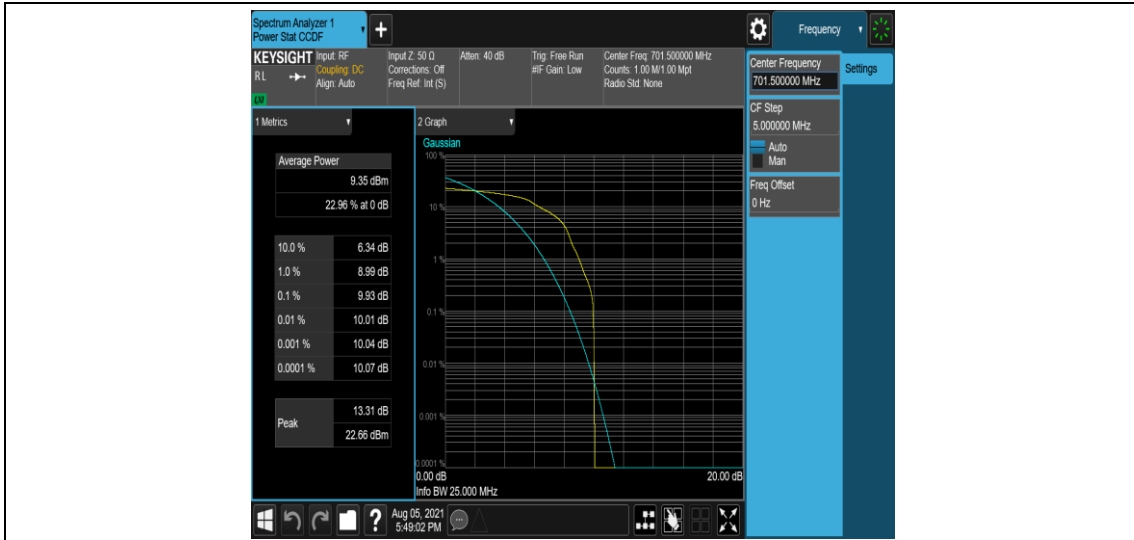
Band12-5MHz-QPSK-23095-6-0-Low-10.42-<=13-PASS



Band12-5MHz-QPSK-23155-1-0-High-8.74-<=13-PASS



Band12-5MHz-QPSK-23155-6-0-High-9.15-<=13-PASS



Band12-5MHz-16QAM-23035-1-0-Low-9.93-<=13-PASS



Band12-5MHz-16QAM-23035-6-0-Low-10.68-<=13-PASS



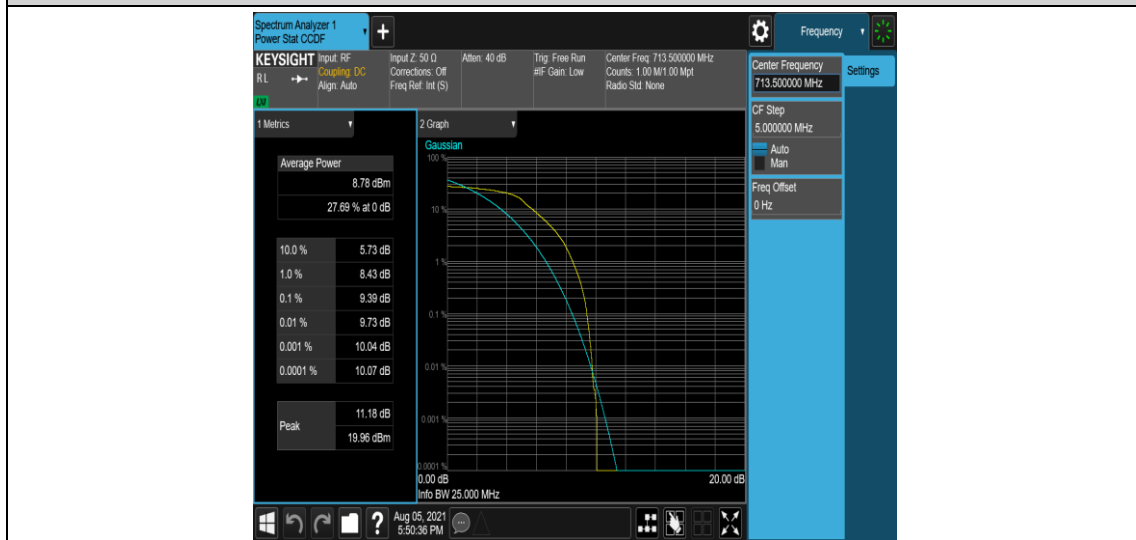
Band12-5MHz-16QAM-23095-1-0-Low-10.67-<=13-PASS



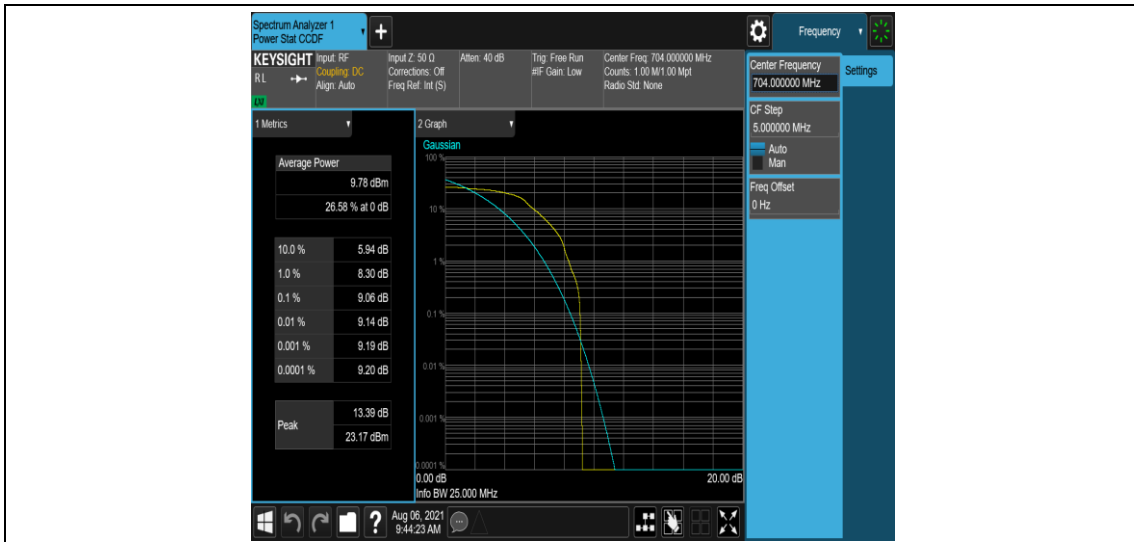
Band12-5MHz-16QAM-23095-6-0-Low-9.00-<=13-PASS



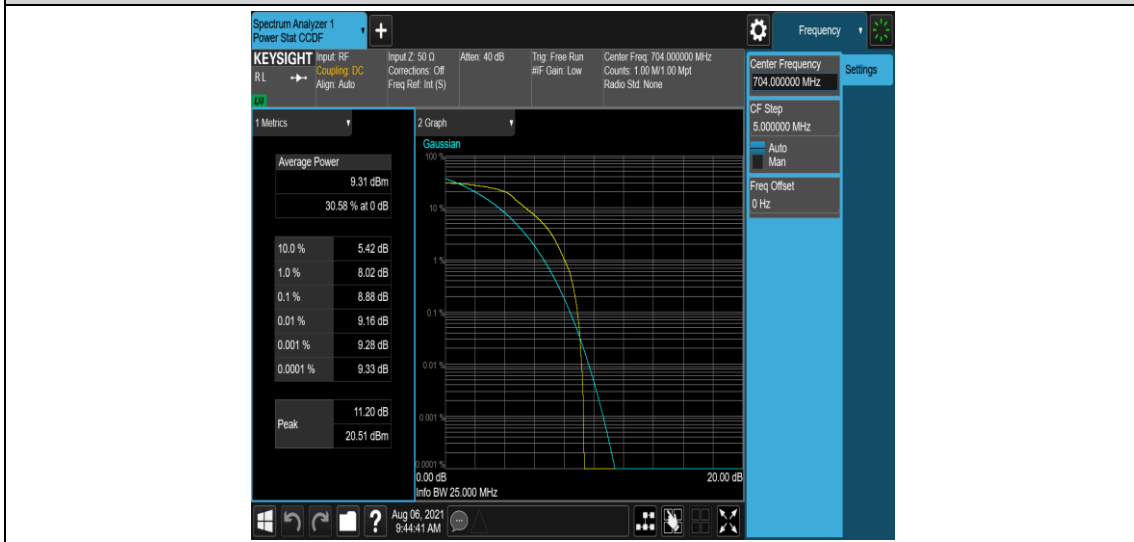
Band12-5MHz-16QAM-23155-1-0-High-9.49-<=13-PASS



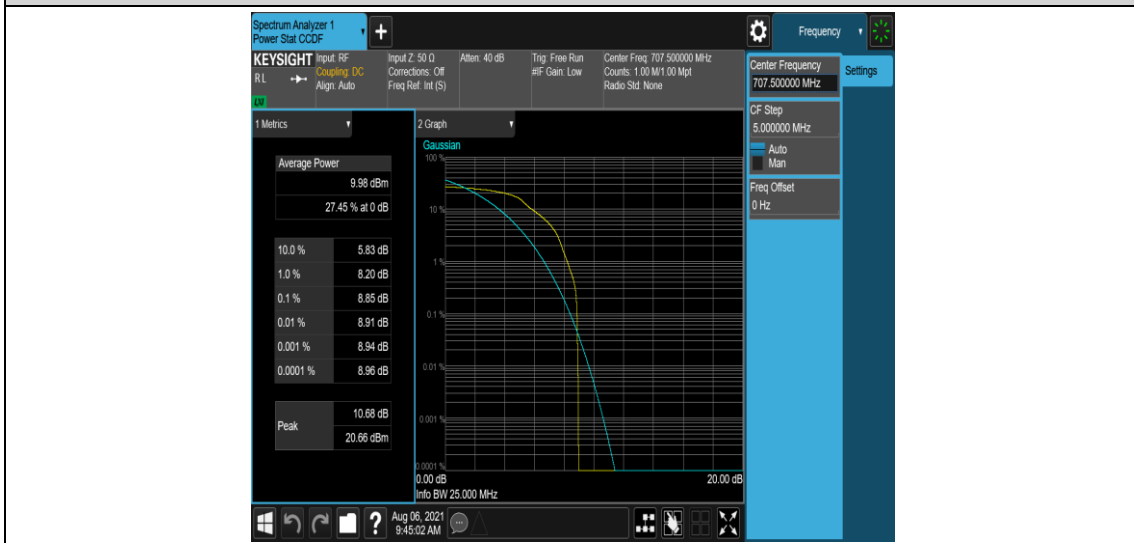
Band12-5MHz-16QAM-23155-6-0-High-9.39-<=13-PASS



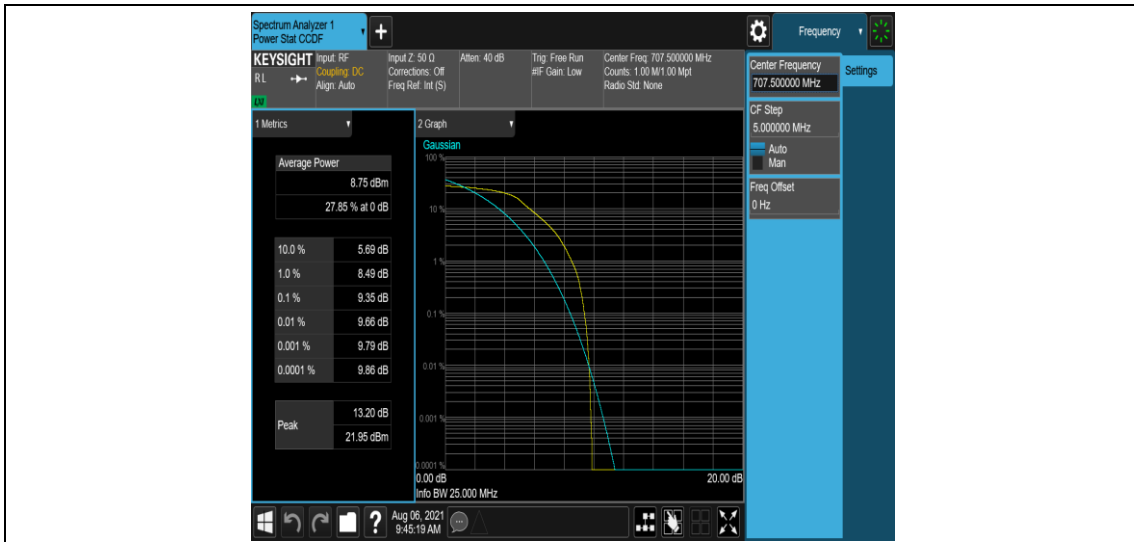
Band12-10MHz-QPSK-23060-1-0-Low-9.06-<=13-PASS



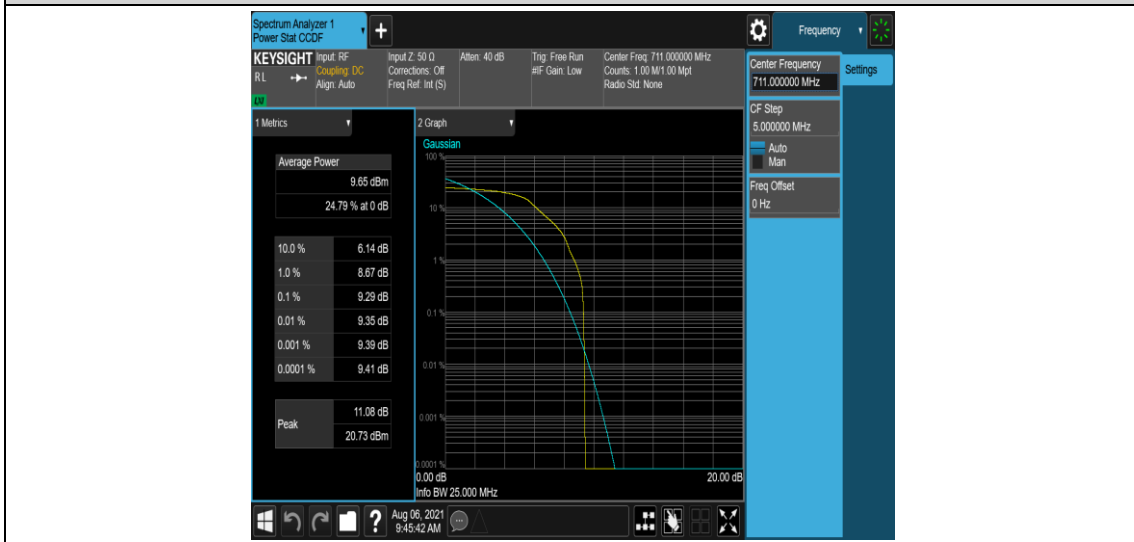
Band12-10MHz-QPSK-23060-6-0-Low-8.88-<=13-PASS



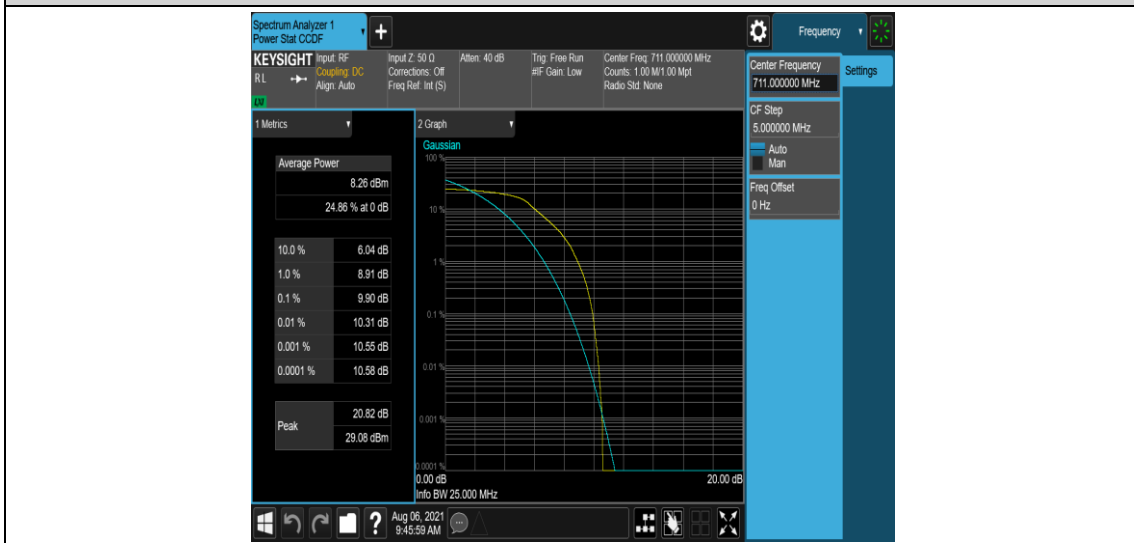
Band12-10MHz-QPSK-23095-1-0-Low-8.85-<=13-PASS



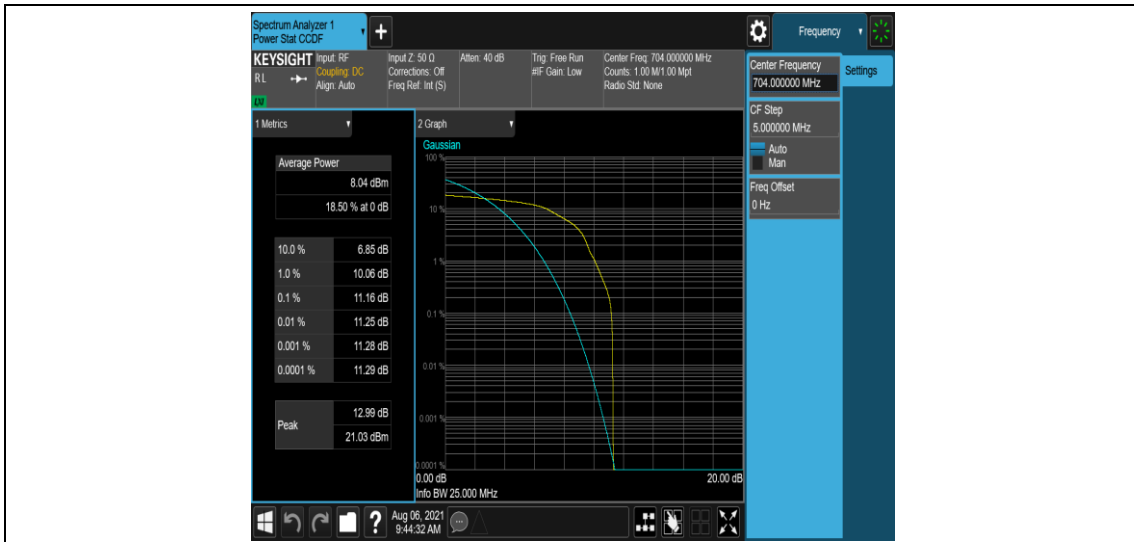
Band12-10MHz-QPSK-23095-6-0-Low-9.35-<=13-PASS



Band12-10MHz-QPSK-23130-1-0-High-9.29-<=13-PASS



Band12-10MHz-QPSK-23130-6-0-High-9.90-<=13-PASS



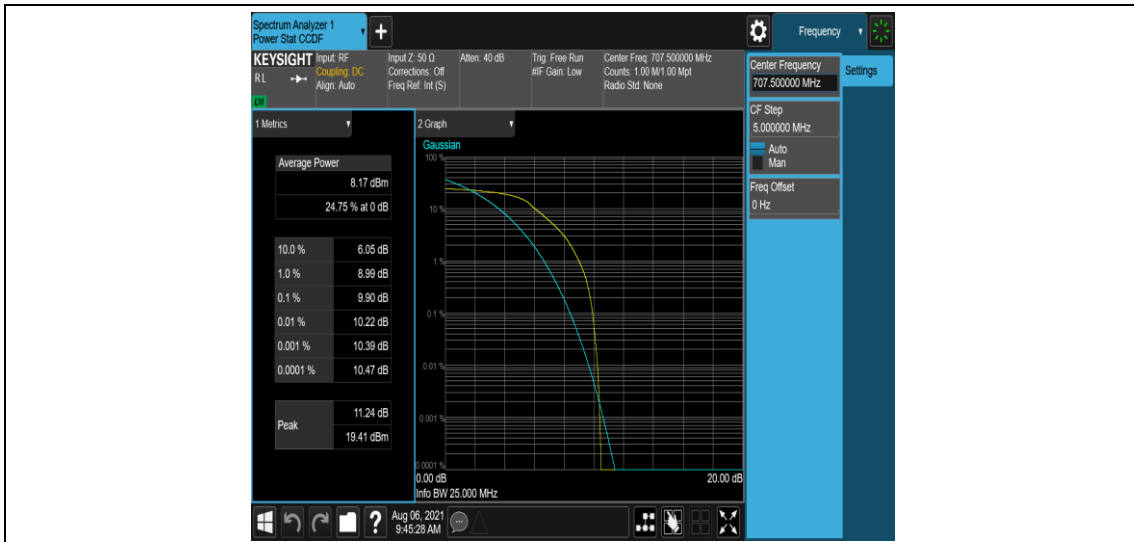
Band12-10MHz-16QAM-23060-1-0-Low-11.16-<=13-PASS



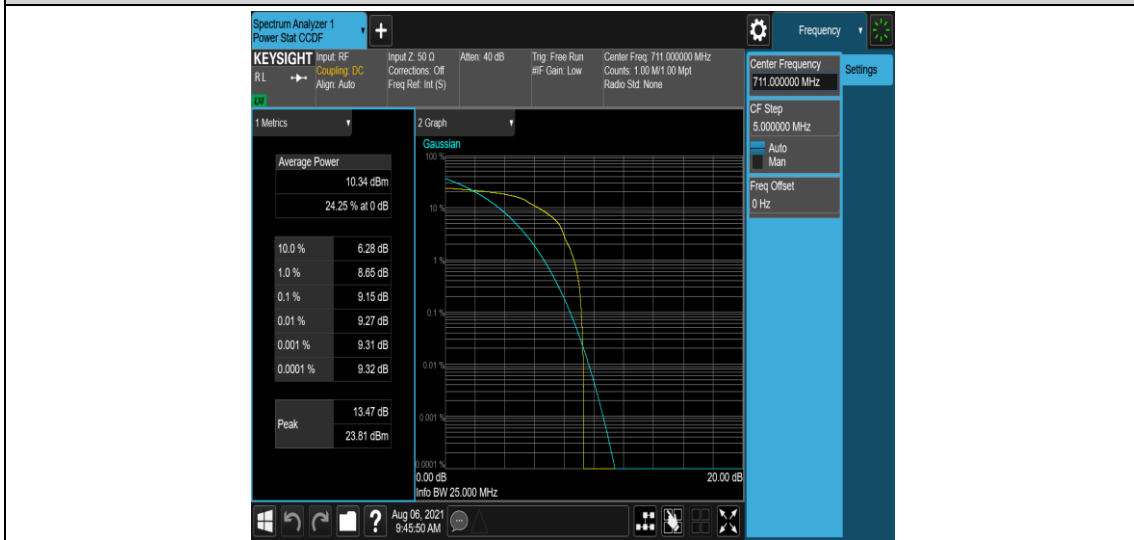
Band12-10MHz-16QAM-23060-6-0-Low-11.31-<=13-PASS



Band12-10MHz-16QAM-23095-1-0-Low-8.66-<=13-PASS



Band12-10MHz-16QAM-23095-6-0-Low-9.90-<=13-PASS



Band12-10MHz-16QAM-23130-1-0-High-9.15-<=13-PASS



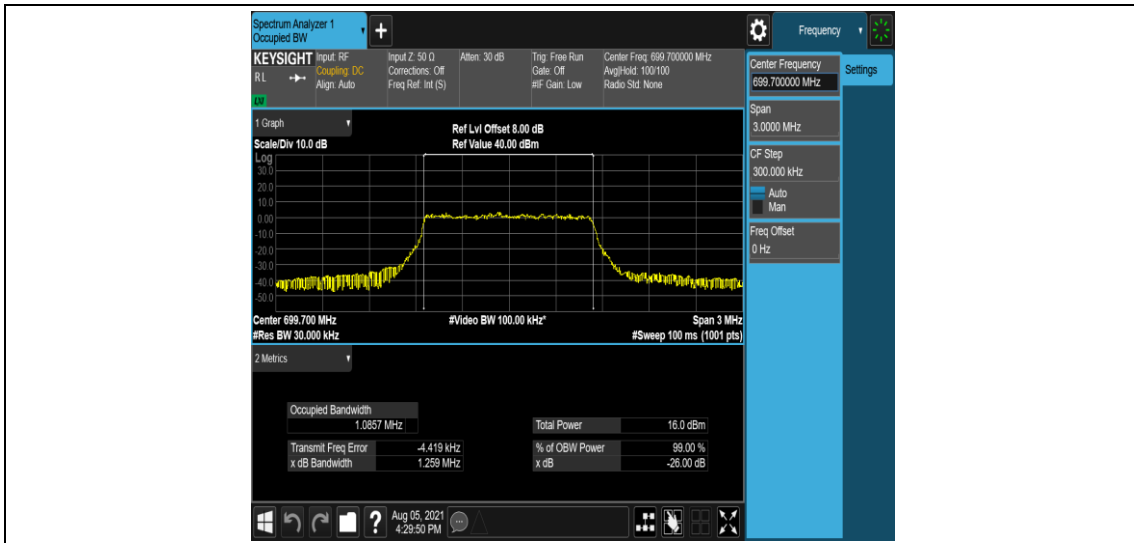
Band12-10MHz-16QAM-23130-6-0-High-8.37-<=13-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth for M1

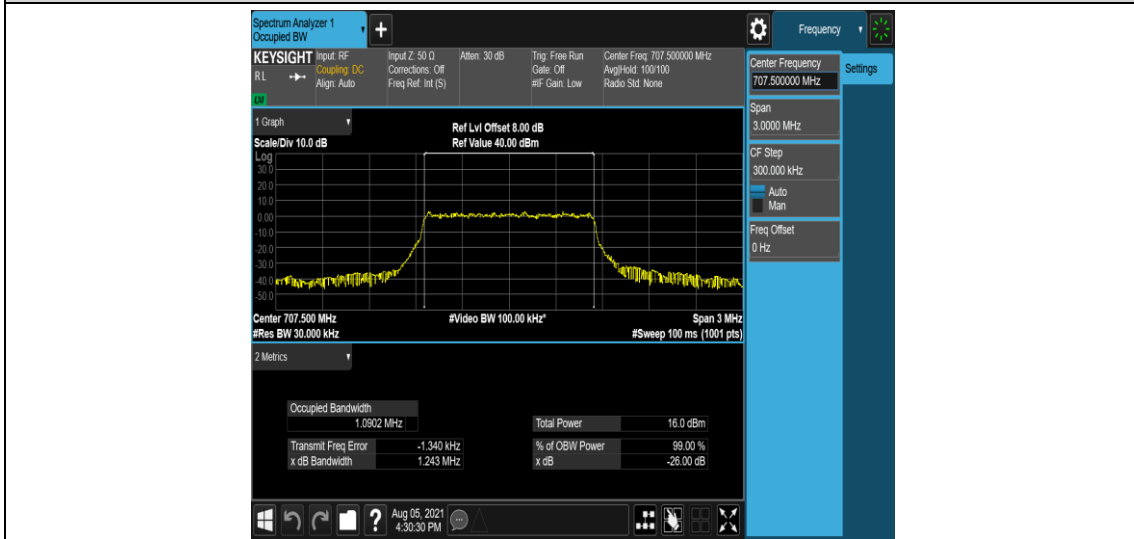
Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	1.0857	1.259	PASS
Band12	1.4MHz	23095	QPSK	6	0	1.0902	1.243	PASS
Band12	1.4MHz	23173	QPSK	6	0	1.0885	1.244	PASS
Band12	1.4MHz	23017	16QAM	6	0	1.0880	1.260	PASS
Band12	1.4MHz	23095	16QAM	6	0	1.0899	1.241	PASS
Band12	1.4MHz	23173	16QAM	6	0	1.0875	1.242	PASS
Band12	3MHz	23025	QPSK	6	0	1.1117	1.281	PASS
Band12	3MHz	23095	QPSK	6	0	1.1103	1.288	PASS
Band12	3MHz	23165	QPSK	6	0	1.1057	1.242	PASS
Band12	3MHz	23025	16QAM	6	0	1.1147	1.308	PASS
Band12	3MHz	23095	16QAM	6	0	1.1105	1.271	PASS
Band12	3MHz	23165	16QAM	6	0	1.1061	1.262	PASS
Band12	5MHz	23035	QPSK	6	0	1.1627	1.359	PASS
Band12	5MHz	23095	QPSK	6	0	1.1587	1.338	PASS
Band12	5MHz	23155	QPSK	6	0	1.1647	1.335	PASS
Band12	5MHz	23035	16QAM	6	0	1.1595	1.342	PASS
Band12	5MHz	23095	16QAM	6	0	1.1572	1.349	PASS
Band12	5MHz	23155	16QAM	6	0	1.1646	1.334	PASS
Band12	10MHz	23060	QPSK	6	0	1.2935	1.557	PASS
Band12	10MHz	23095	QPSK	6	0	1.2969	1.574	PASS
Band12	10MHz	23130	QPSK	6	0	1.2909	1.562	PASS
Band12	10MHz	23060	16QAM	6	0	1.2939	1.554	PASS
Band12	10MHz	23095	16QAM	6	0	1.2976	1.558	PASS
Band12	10MHz	23130	16QAM	6	0	1.2912	1.558	PASS

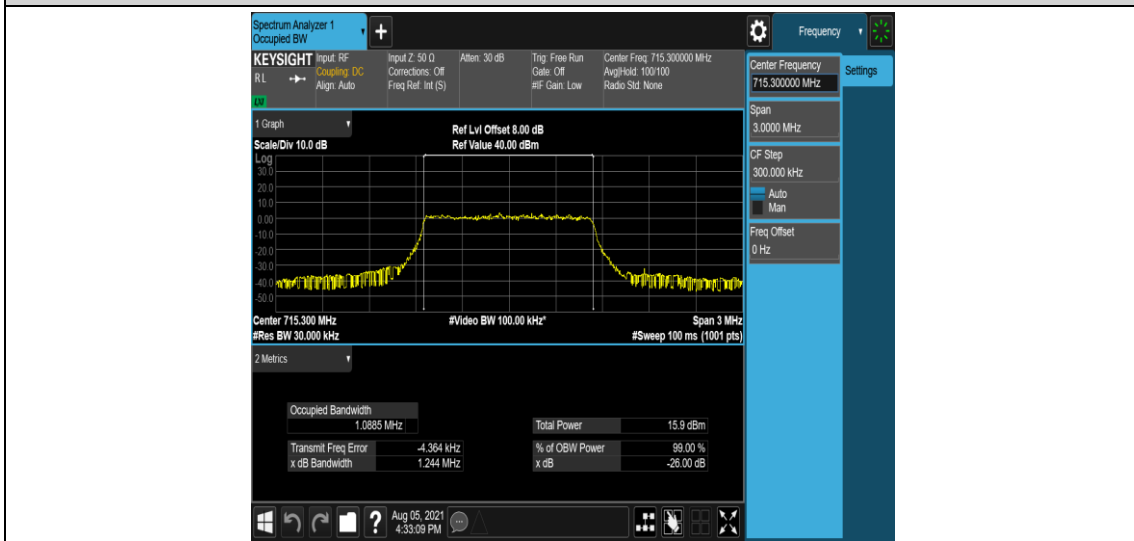
Test Graphs



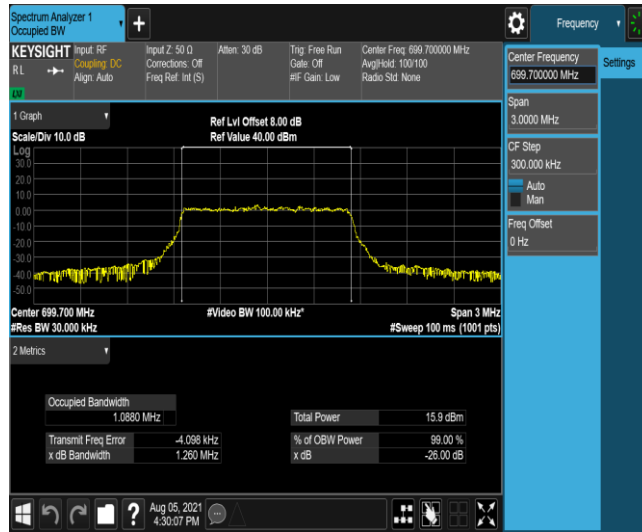
Band12-1.4MHz-QPSK-23017-6-0-Low-1.0857-1.259-PASS



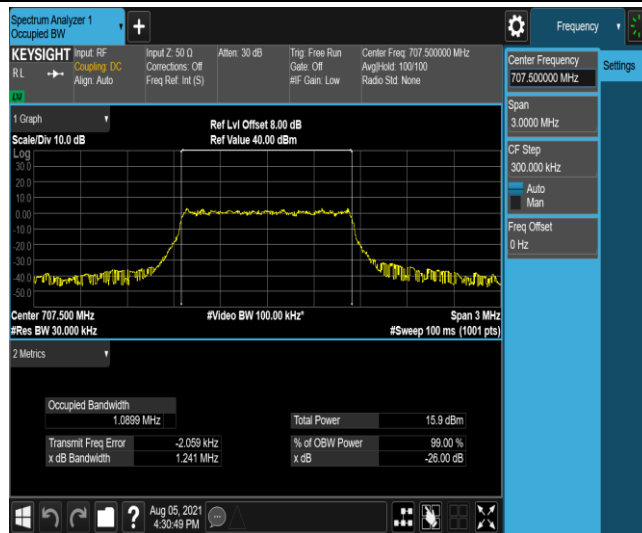
Band12-1.4MHz-QPSK-23095-6-0-Low-1.0902-1.243-PASS



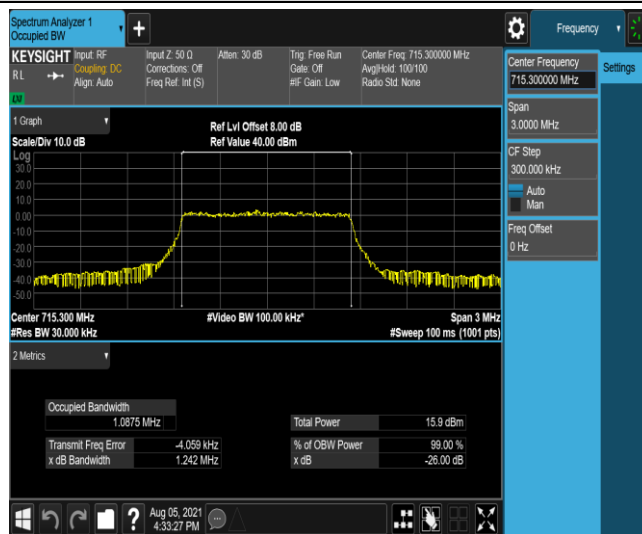
Band12-1.4MHz-QPSK-23173-6-0-High-1.0885-1.244-PASS



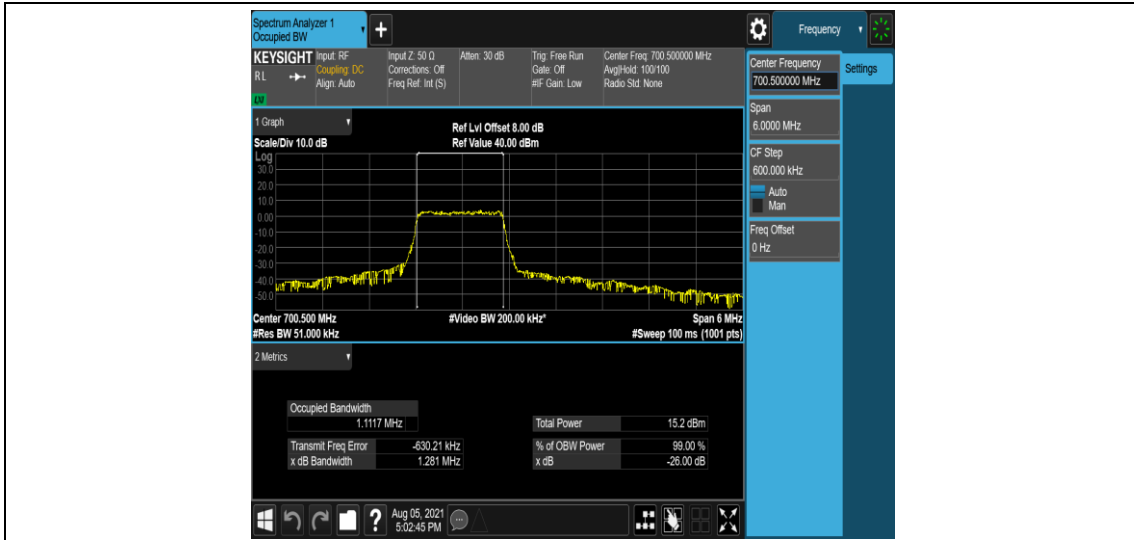
Band12-1.4MHz-16QAM-23017-6-0-Low-1.0880-1.260-PASS



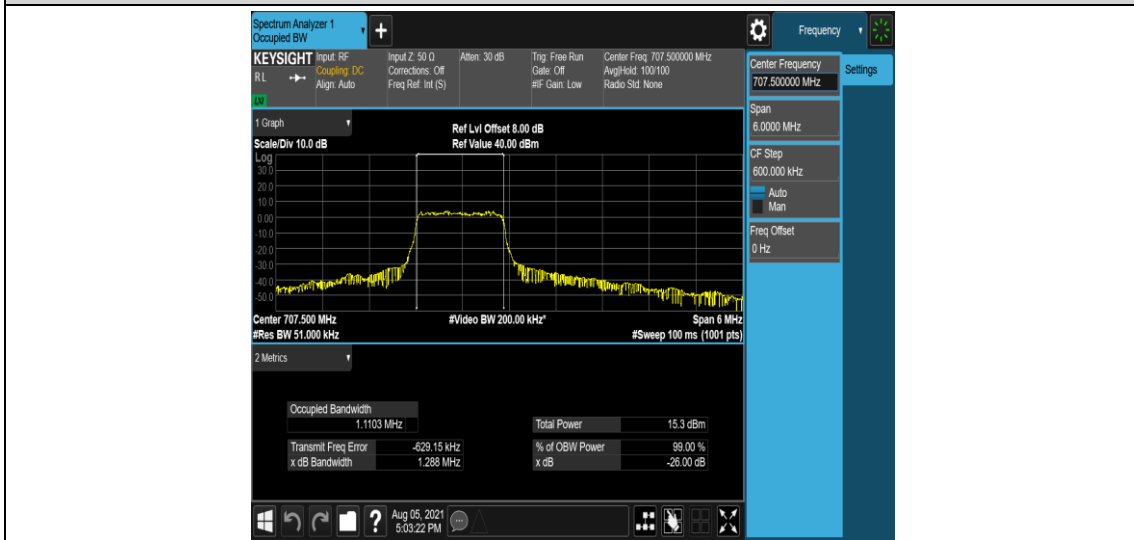
Band12-1.4MHz-16QAM-23095-6-0-Low-1.0899-1.241-PASS



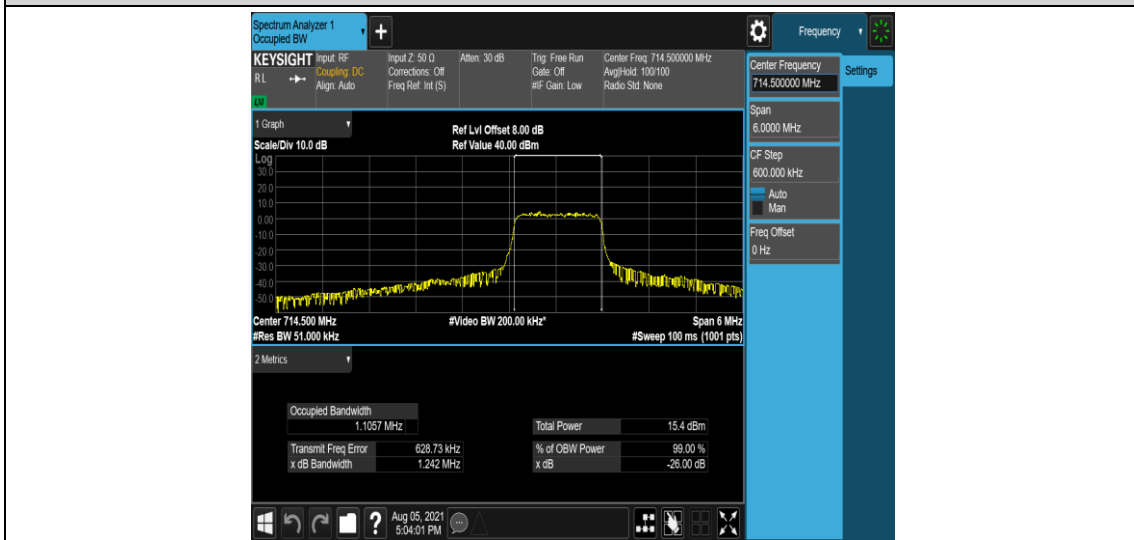
Band12-1.4MHz-16QAM-23173-6-0-High-1.0875-1.242-PASS



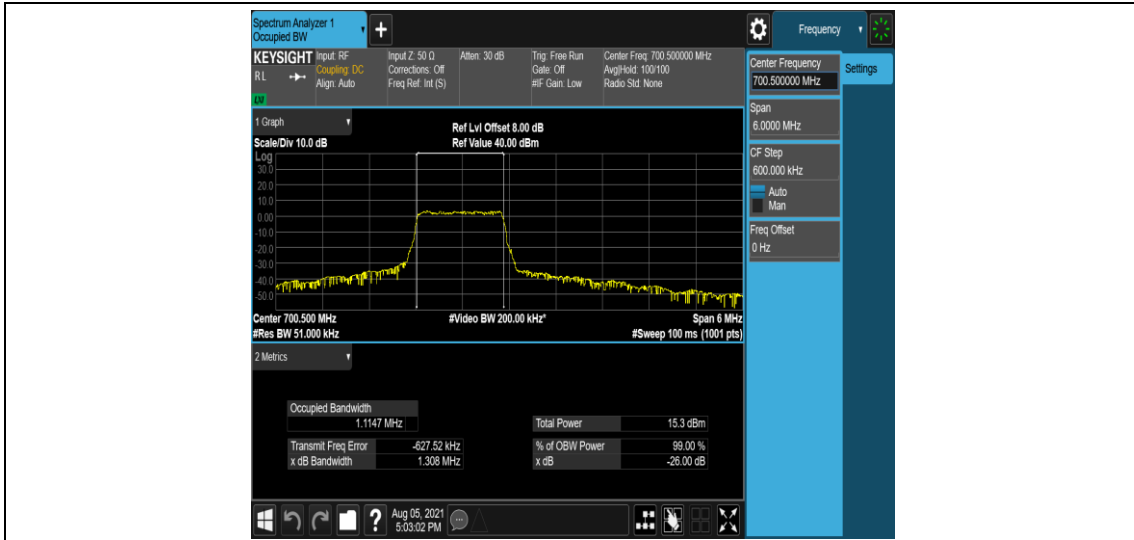
Band12-3MHz-QPSK-23025-6-0-Low-1.1117-1.281-PASS



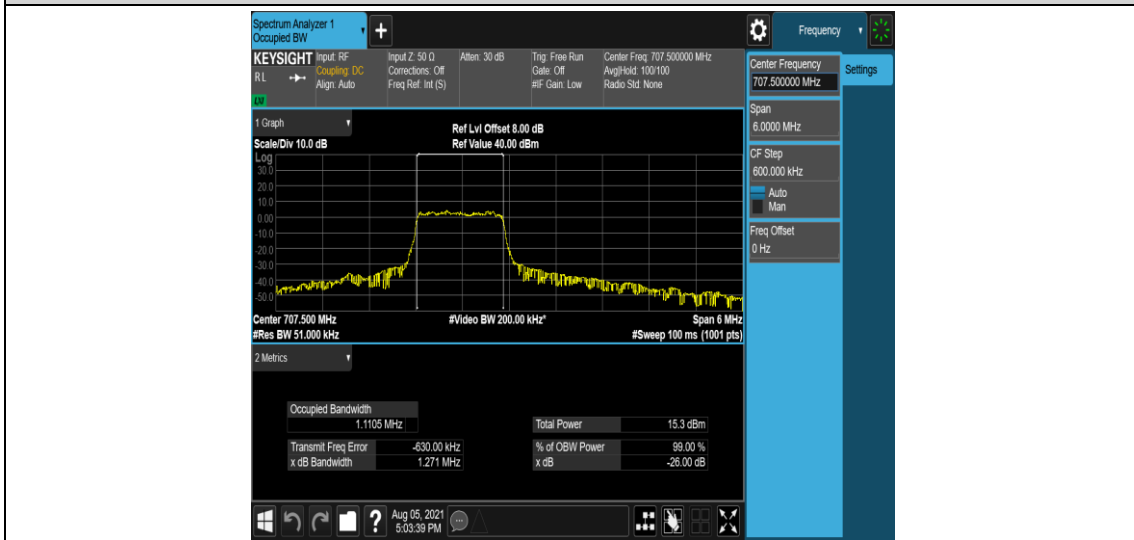
Band12-3MHz-QPSK-23095-6-0-Low-1.1103-1.288-PASS



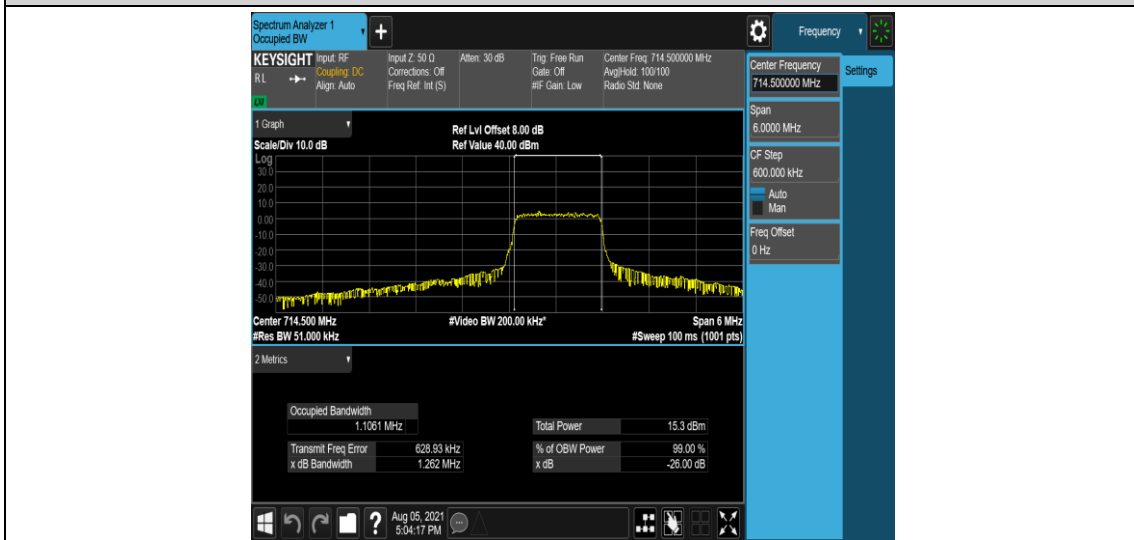
Band12-3MHz-QPSK-23165-6-0-High-1.1057-1.242-PASS



Band12-3MHz-16QAM-23025-6-0-Low-1.1147-1.308-PASS



Band12-3MHz-16QAM-23095-6-0-Low-1.1105-1.271-PASS



Band12-3MHz-16QAM-23165-6-0-High-1.1061-1.262-PASS