

Appendix for Band 12

Appendix A: Average Power Output

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.55	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.28	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.56	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.43	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.45	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.32	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.29	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.39	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.20	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.17	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.55	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.28	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.30	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.26	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.29	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.38	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.47	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.25	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.23	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.34	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.09	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.58	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.64	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.34	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.23	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.19	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	20.87	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.50	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.42	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.55	PASS

Band12	1.4MHz	16QAM	23095	1RB#5	21.29	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.14	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	20.75	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	20.86	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.14	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	20.98	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.20	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.27	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.20	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	20.85	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.09	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.68	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.63	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.53	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.67	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.61	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.61	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.66	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.53	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.36	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.18	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.46	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.40	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.43	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.37	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.16	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.40	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.33	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.36	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.35	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.31	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.37	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.74	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.11	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.64	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.78	PASS

Band12	3MHz	16QAM	23025	8RB#4	20.74	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.72	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.51	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.61	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.09	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.34	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.34	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.46	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.59	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.39	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.51	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.84	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.50	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.33	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.72	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.88	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.55	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.85	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.65	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.54	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.72	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.66	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.55	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.61	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.59	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.36	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.36	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.56	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.51	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.47	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.37	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.20	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.09	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.31	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.36	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.28	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.11	PASS

Band12	5MHz	QPSK	23155	25RB#0	21.13	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.82	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.24	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.50	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.51	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.63	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.42	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.81	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.54	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.36	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.46	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.73	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.65	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.70	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.71	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.20	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.09	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.32	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.81	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.47	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.51	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.37	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.66	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.74	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.33	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.76	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.69	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.62	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.59	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.13	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.46	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.30	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.58	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.61	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.44	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.40	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.43	PASS

Band12	10MHz	QPSK	23130	1RB#24	22.22	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.36	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.42	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.24	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.21	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.28	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.70	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.07	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.35	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.72	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.76	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.57	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.66	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.27	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.31	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.24	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.59	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.59	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.64	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.41	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.30	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.44	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.03	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.55	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.37	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.83	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.40	PASS

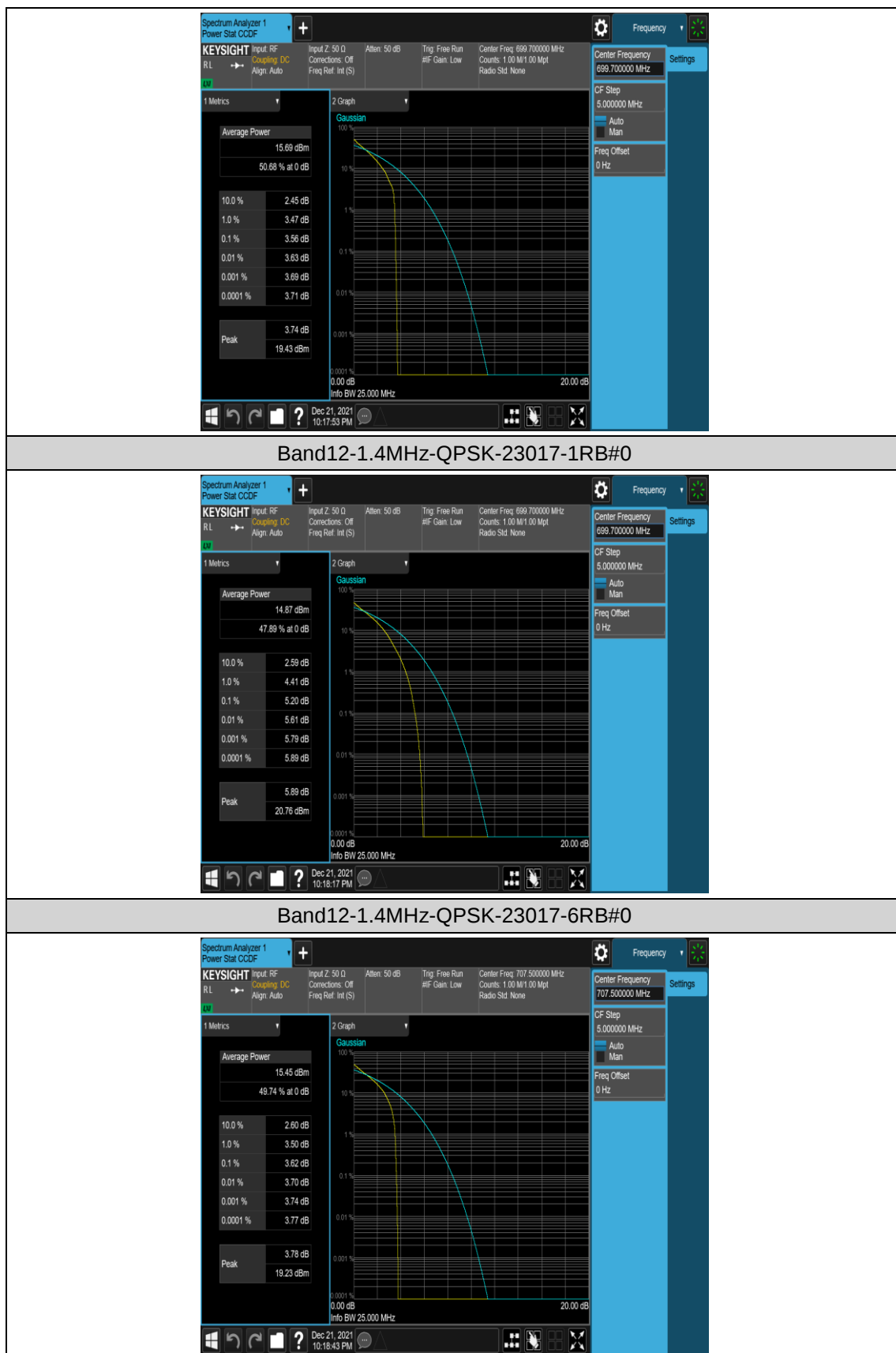
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

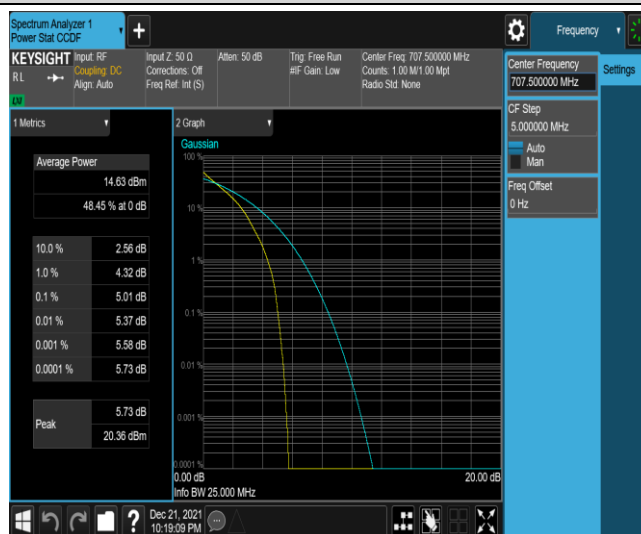
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	3.56	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.20	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	3.62	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.01	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3.55	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.03	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	4.60	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.09	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.47	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.87	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.65	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.92	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	3.62	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.24	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	3.54	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.10	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	3.58	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.20	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	4.45	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.99	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	4.51	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.95	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	4.44	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.03	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	3.55	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.18	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	3.52	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.07	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	3.49	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.19	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	4.47	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.99	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	4.38	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.88	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	4.46	13	PASS

Band12	5MHz	16QAM	23155	25RB#0	5.99	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	3.52	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.01	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	3.47	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.08	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	3.45	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	4.37	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.88	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	4.55	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.95	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	4.42	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.97	13	PASS

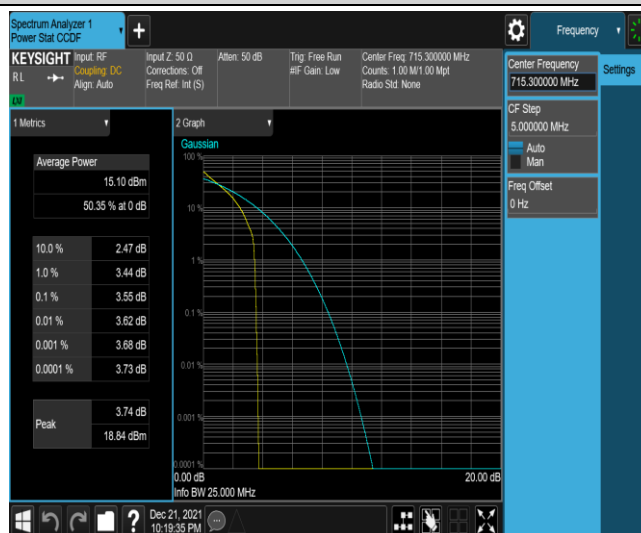
Test Graphs



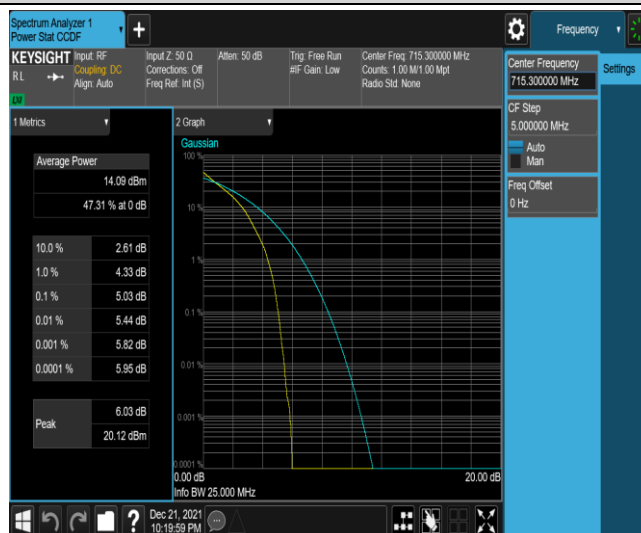
Band12-1.4MHz-QPSK-23095-1RB#0



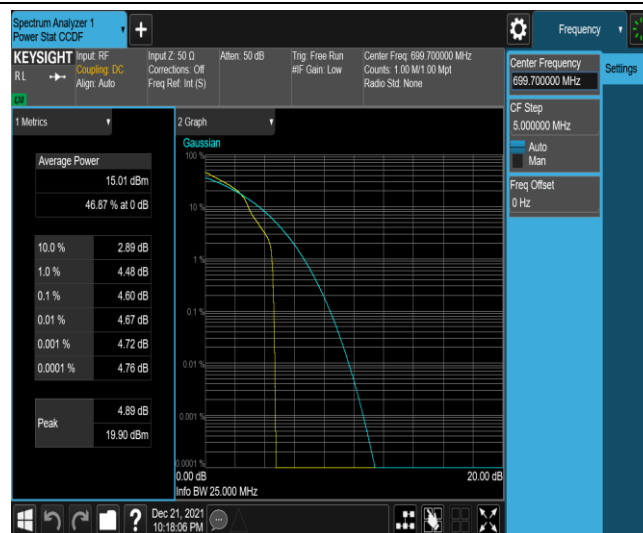
Band12-1.4MHz-QPSK-23095-6RB#0



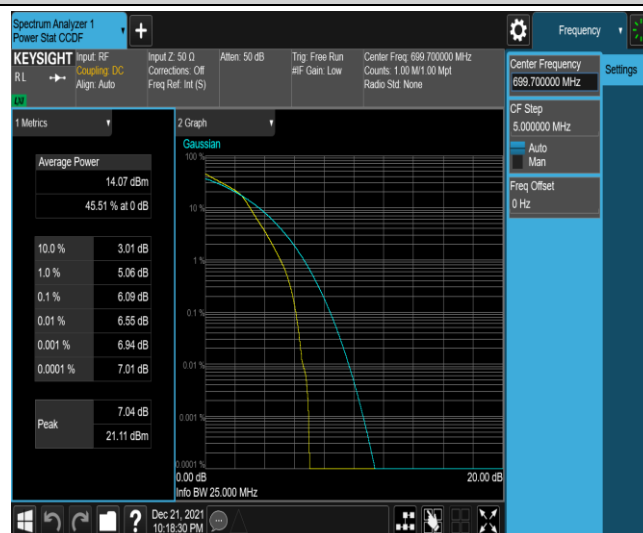
Band12-1.4MHz-QPSK-23173-1RB#0



Band12-1.4MHz-QPSK-23173-6RB#0



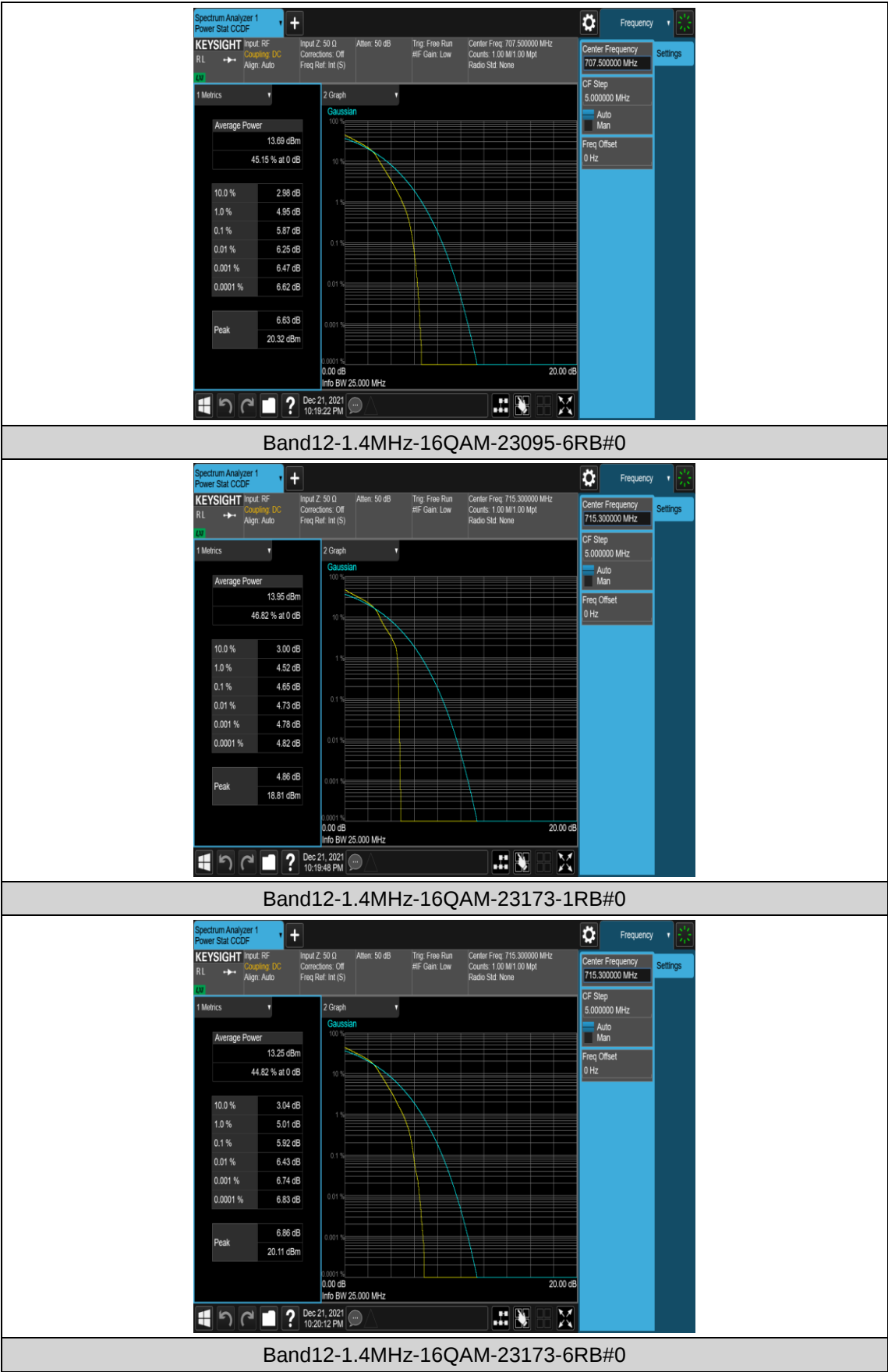
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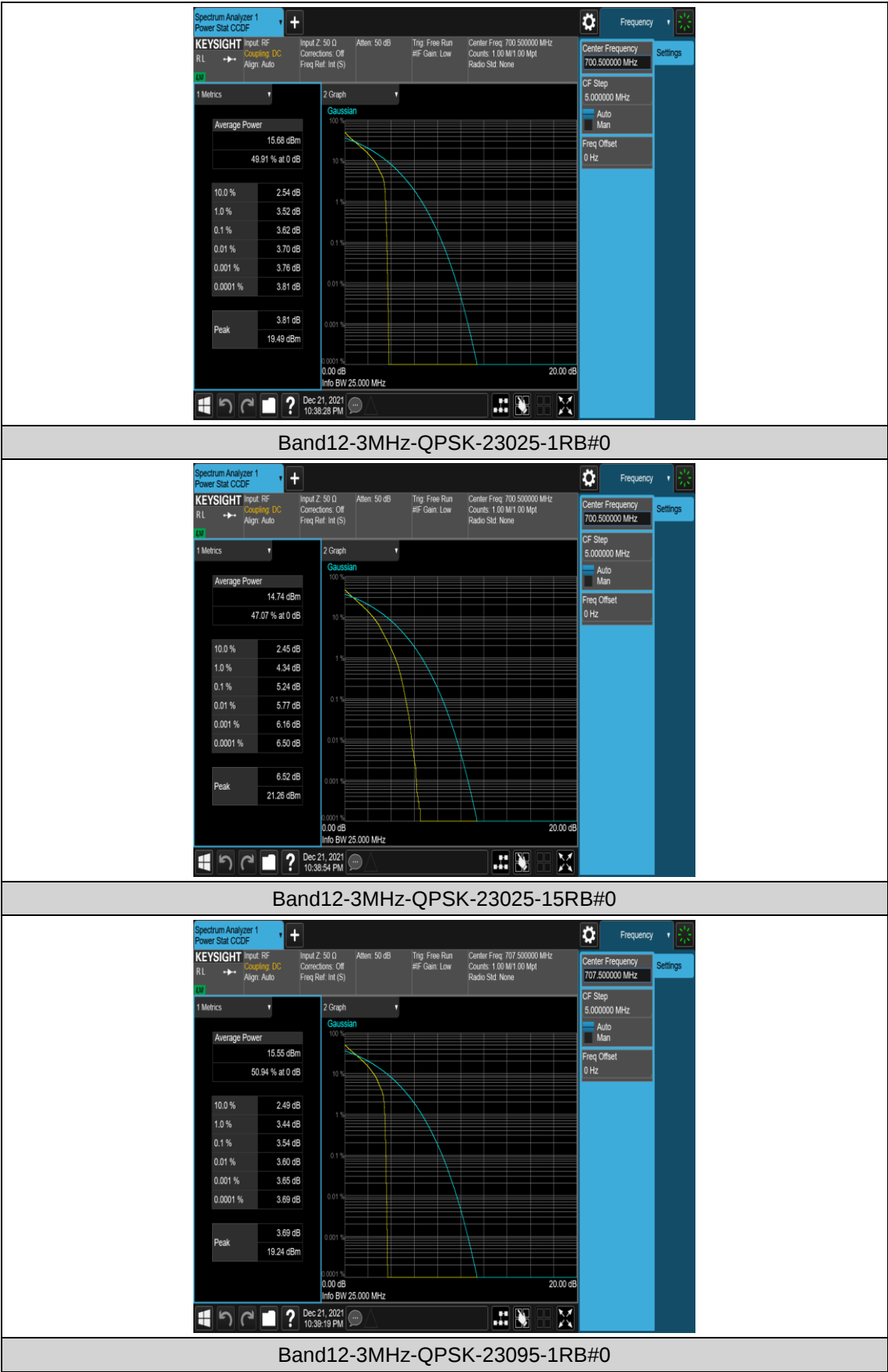


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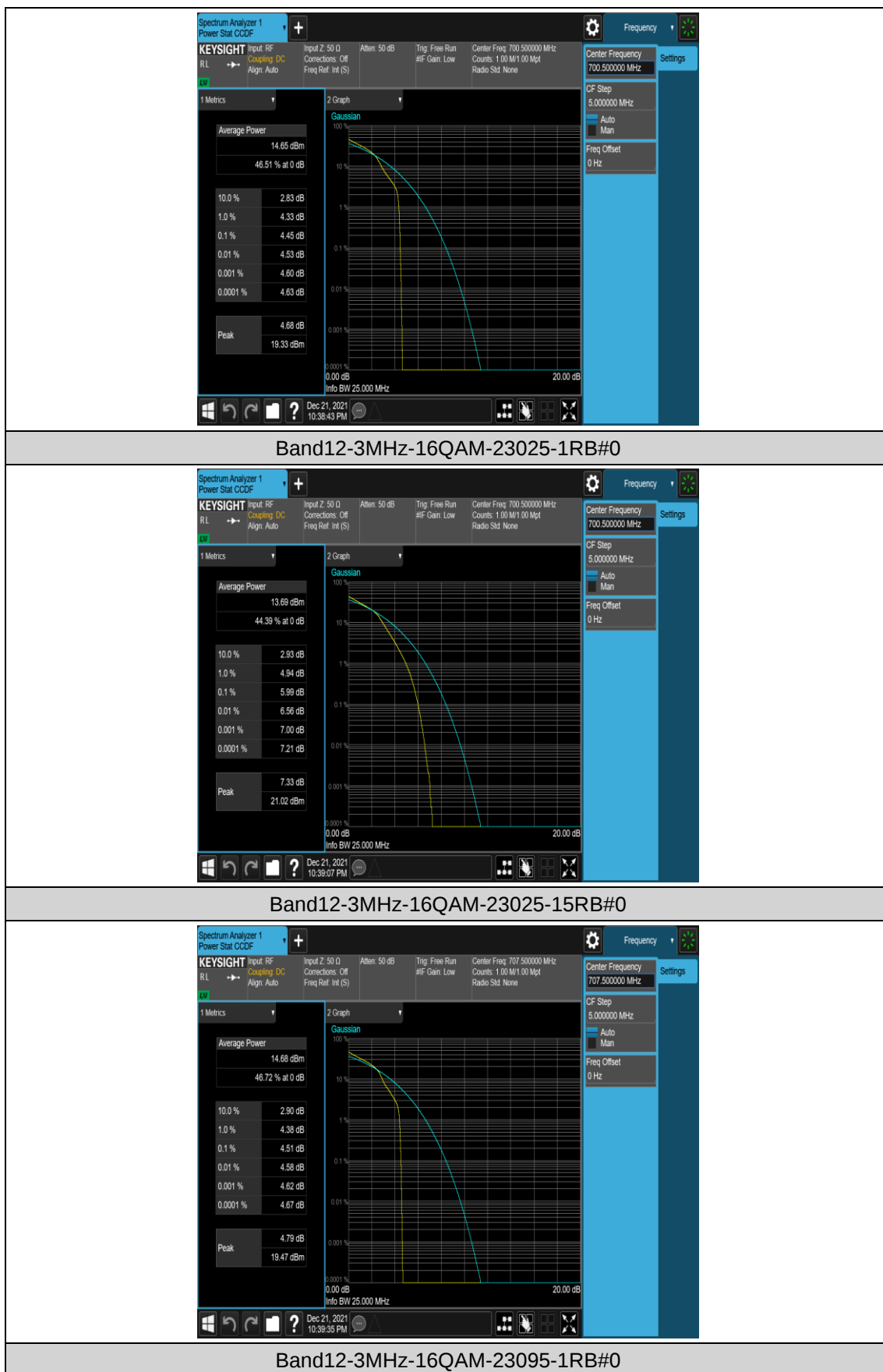


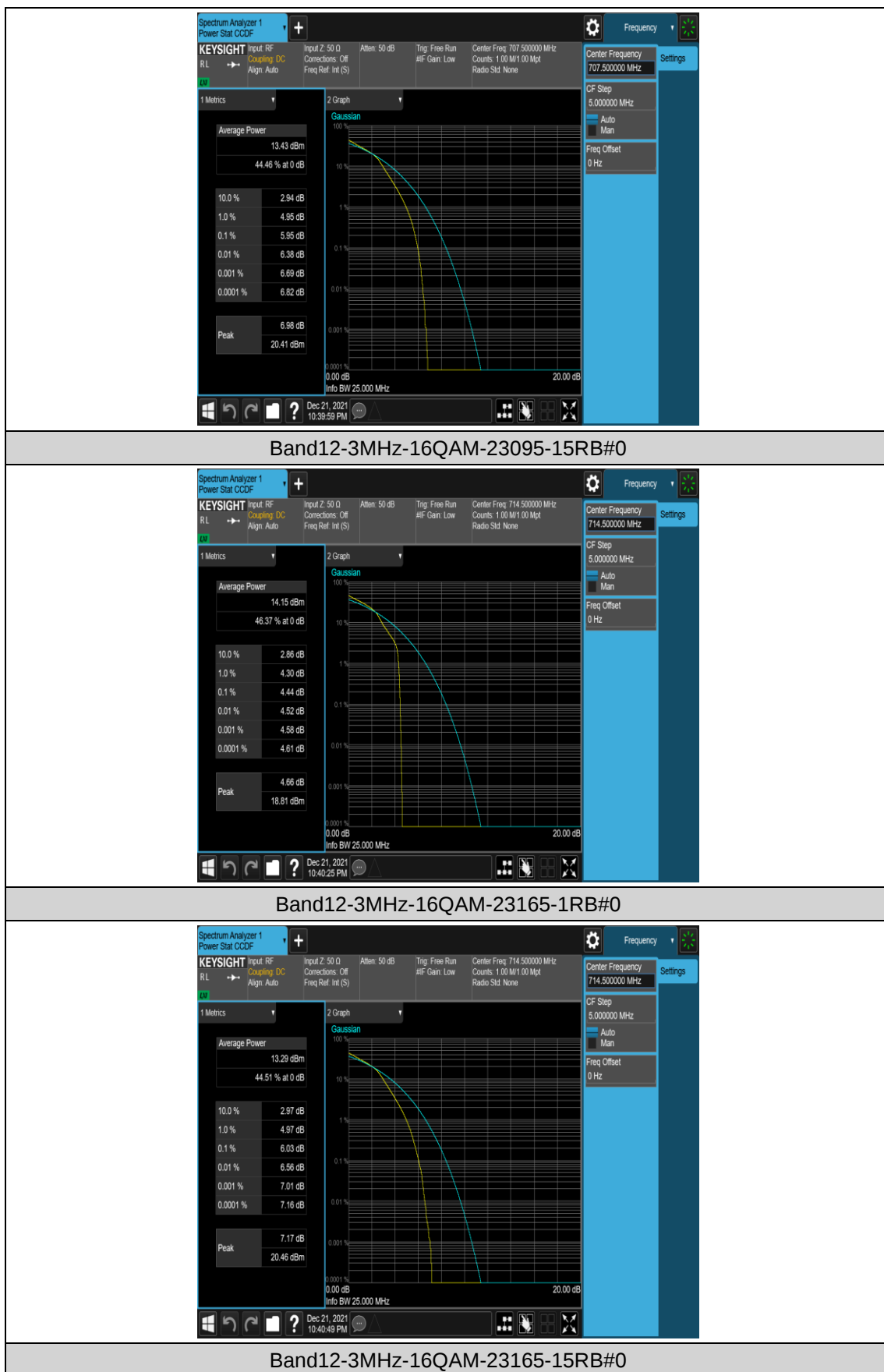
Band12-1.4MHz-16QAM-23095-1RB#0

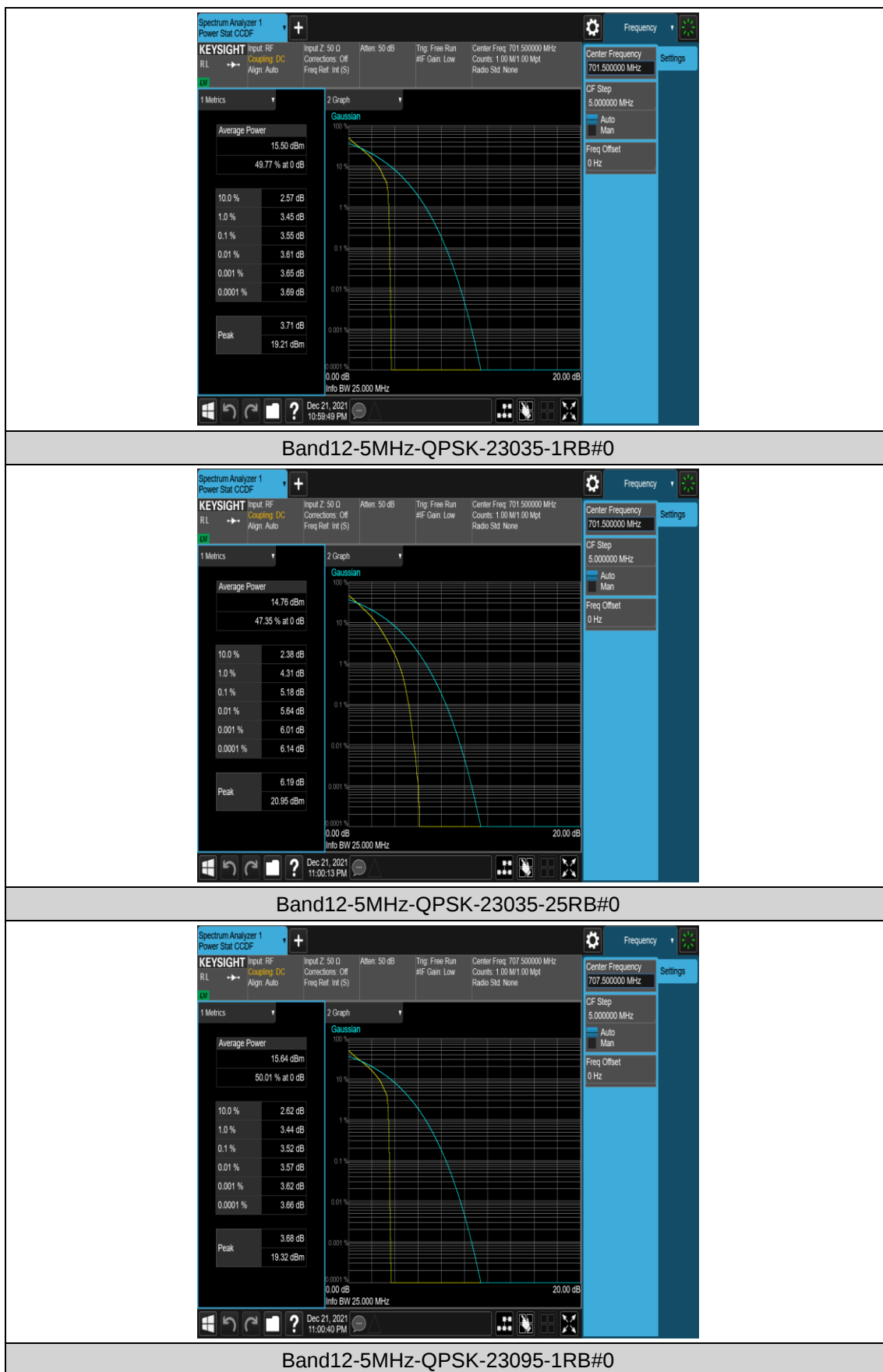


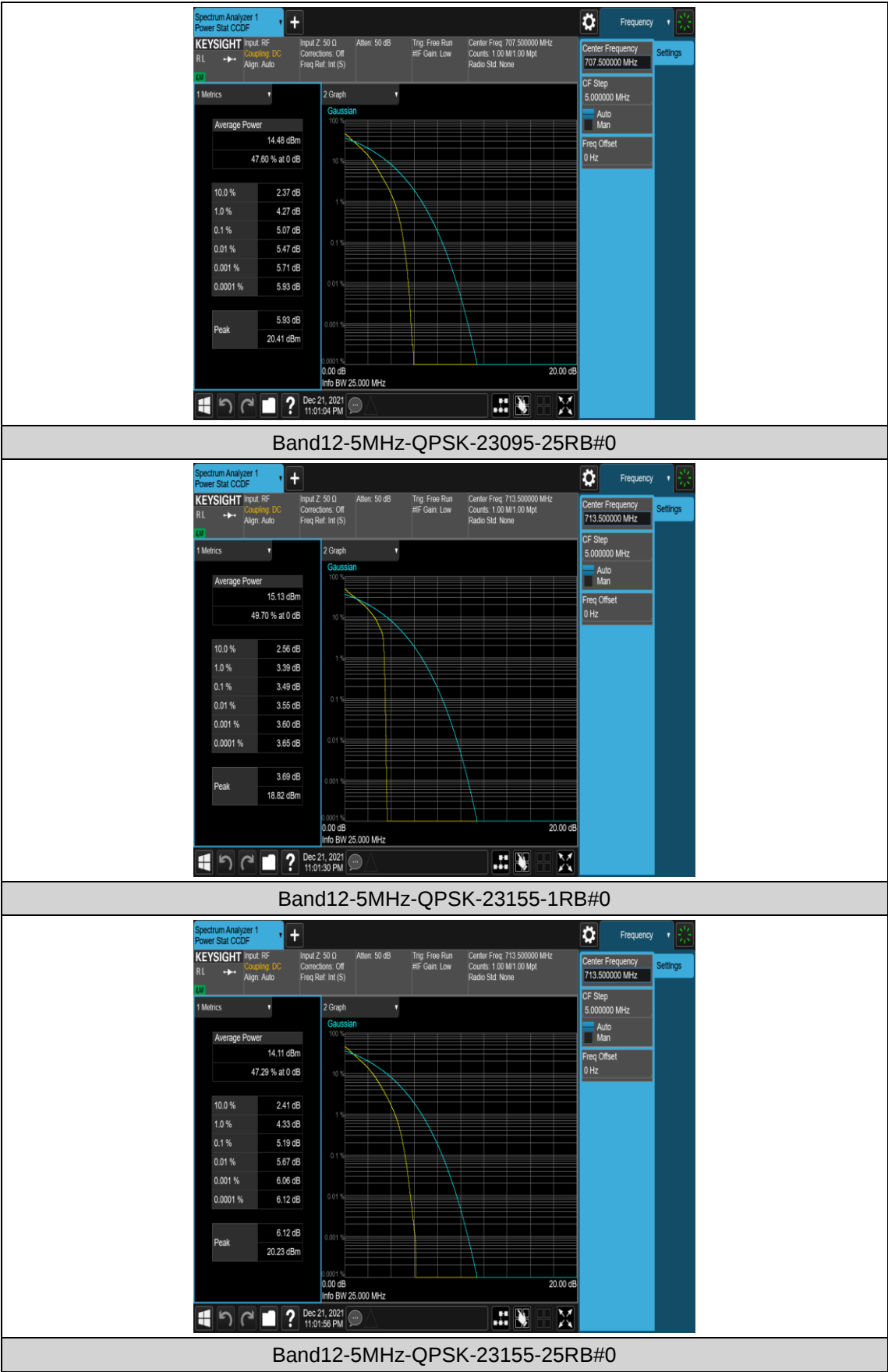


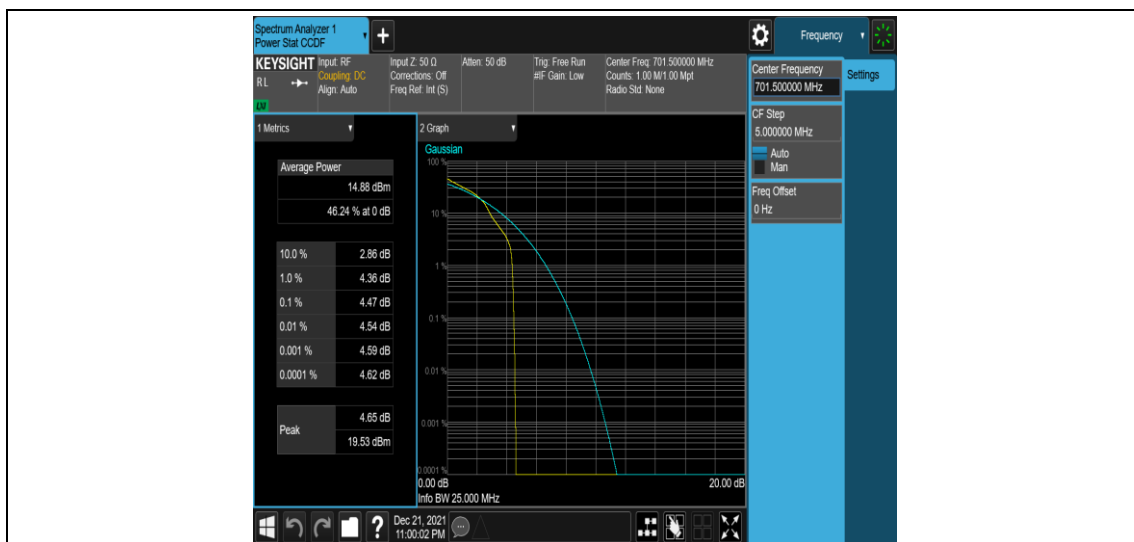












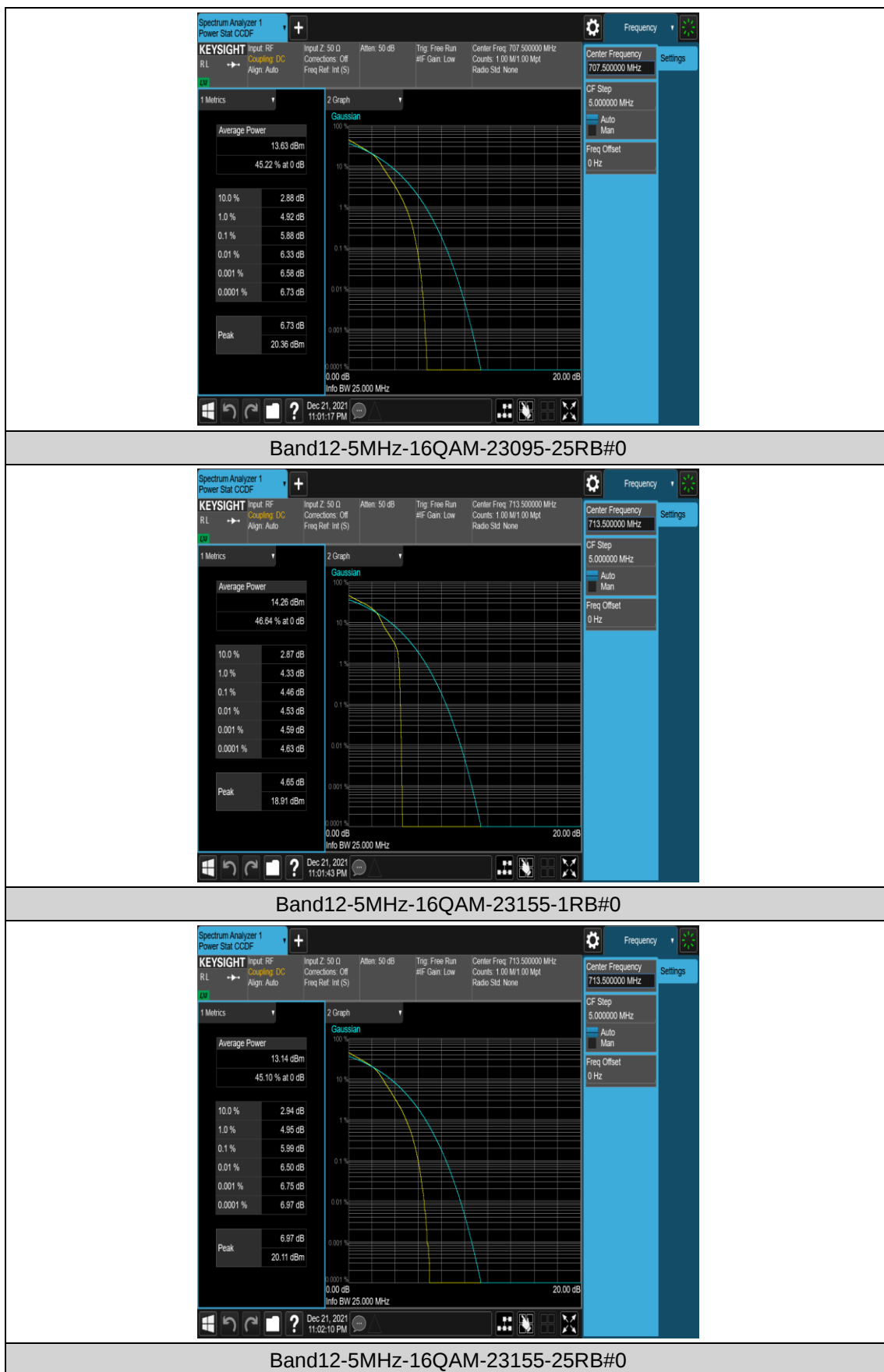
Band12-5MHz-16QAM-23035-1RB#0

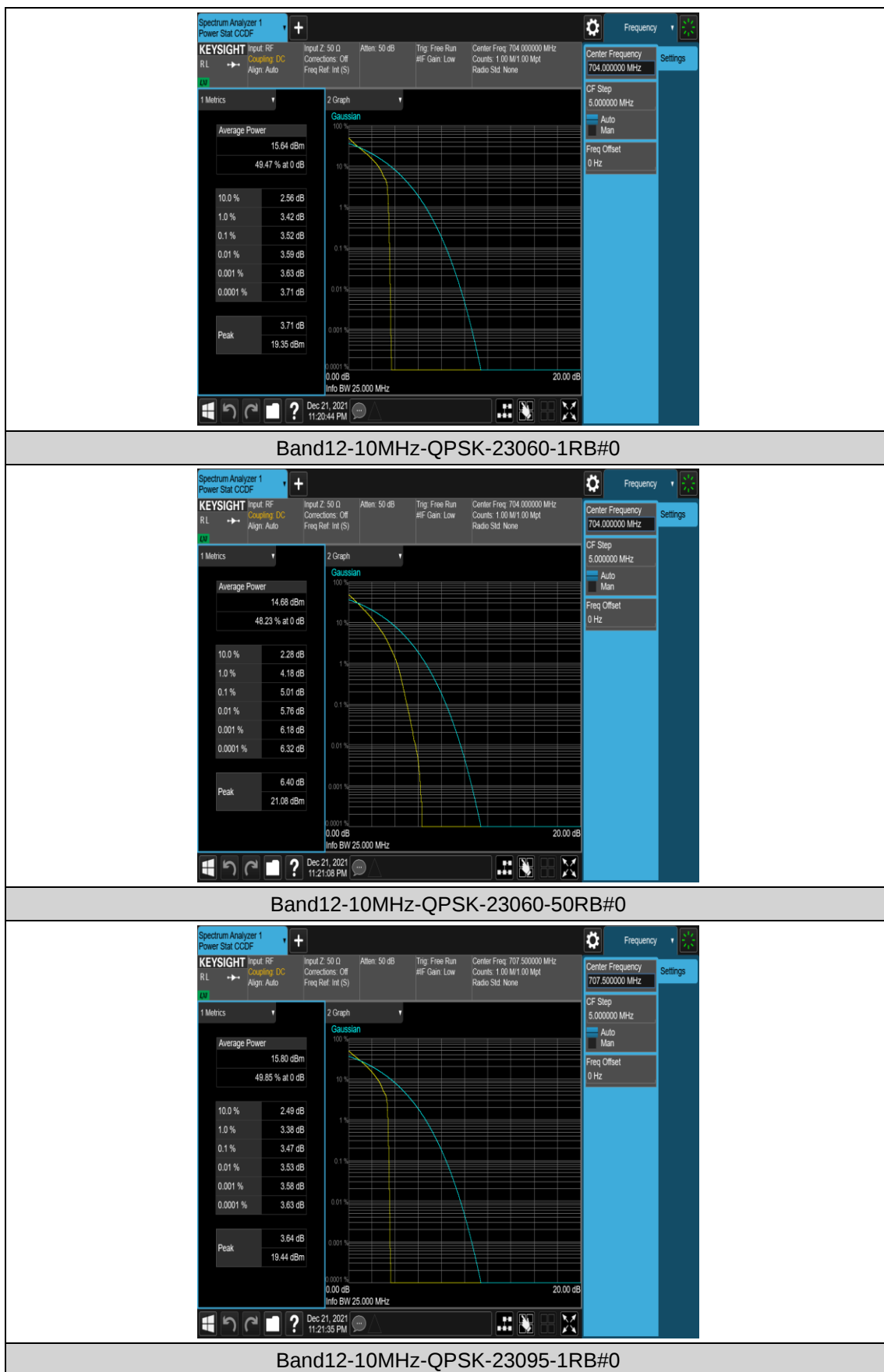


Band12-5MHz-16QAM-23035-25RB#0

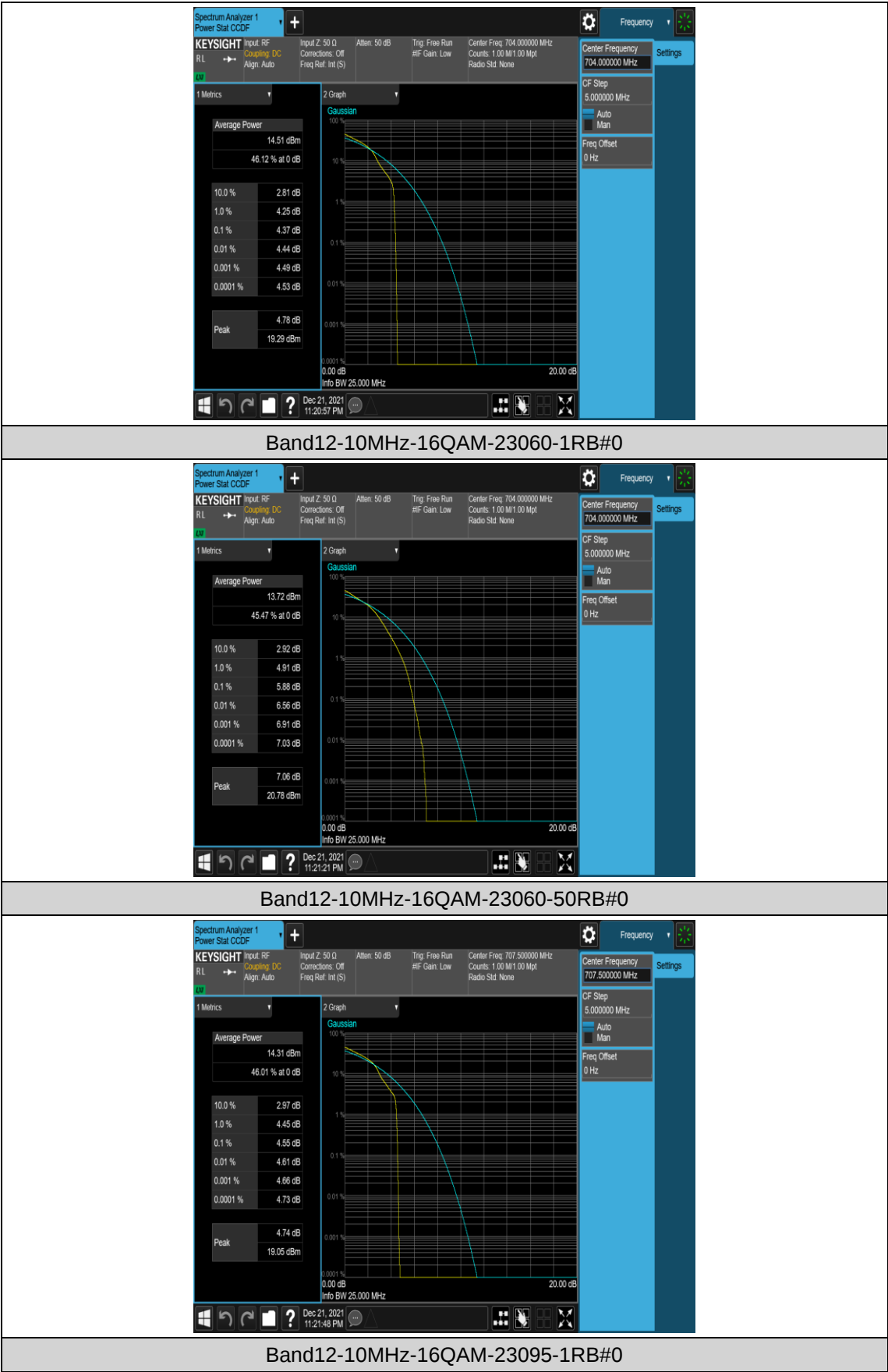


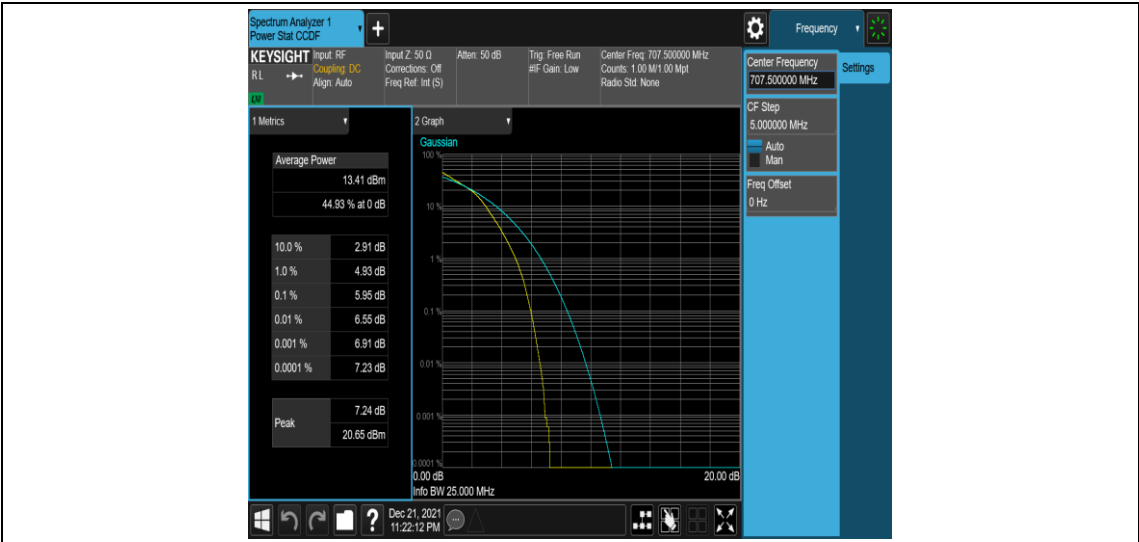
Band12-5MHz-16QAM-23095-1RB#0



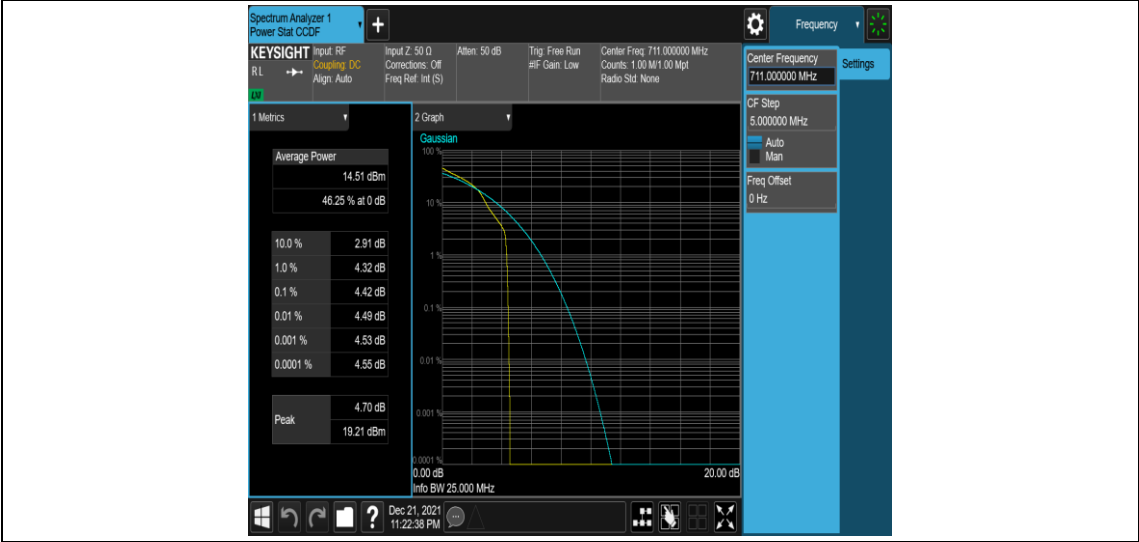




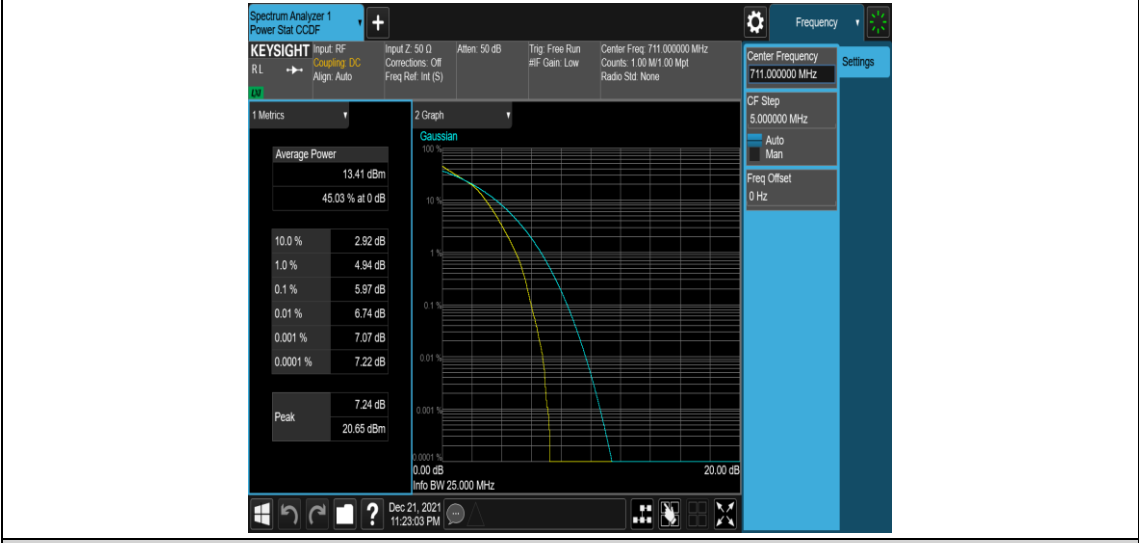




Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-1RB#0



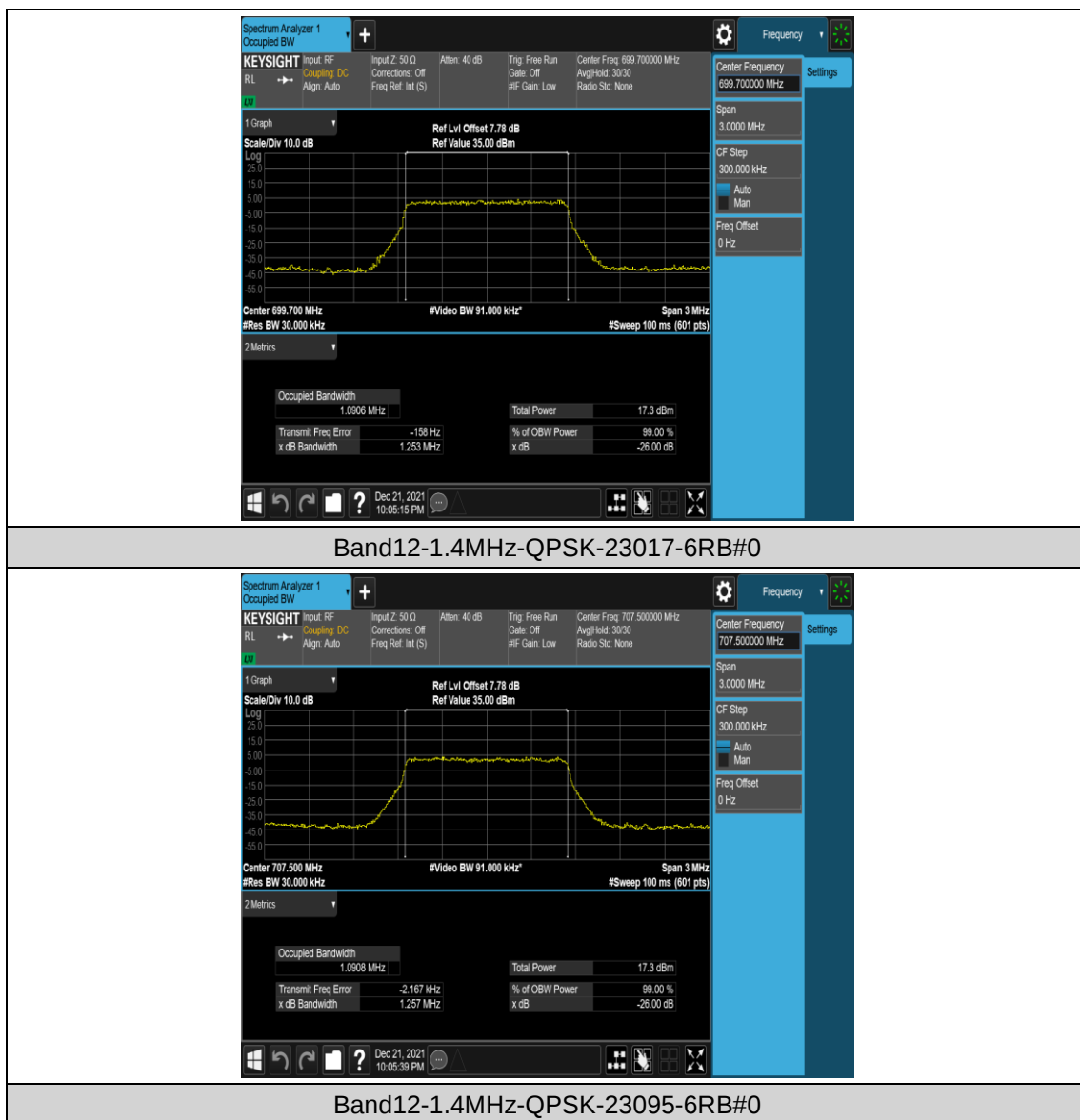
Band12-10MHz-16QAM-23130-50RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

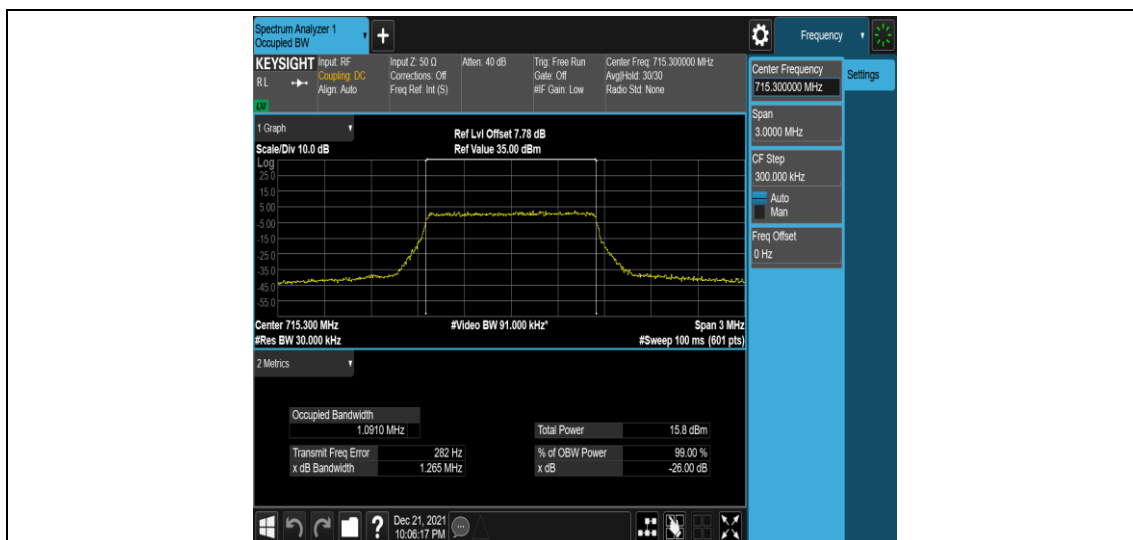
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0906	1.253	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0908	1.257	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0913	1.247	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0918	1.247	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0883	1.271	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0910	1.265	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6934	2.907	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6970	2.917	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6955	2.910	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6911	2.906	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6942	2.917	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6943	2.911	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4973	4.883	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5003	4.878	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5029	4.902	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4999	4.862	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5029	4.892	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5057	4.870	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9429	9.535	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9704	9.521	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9898	9.577	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9326	9.534	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9678	9.530	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9713	9.529	PASS

Test Graphs



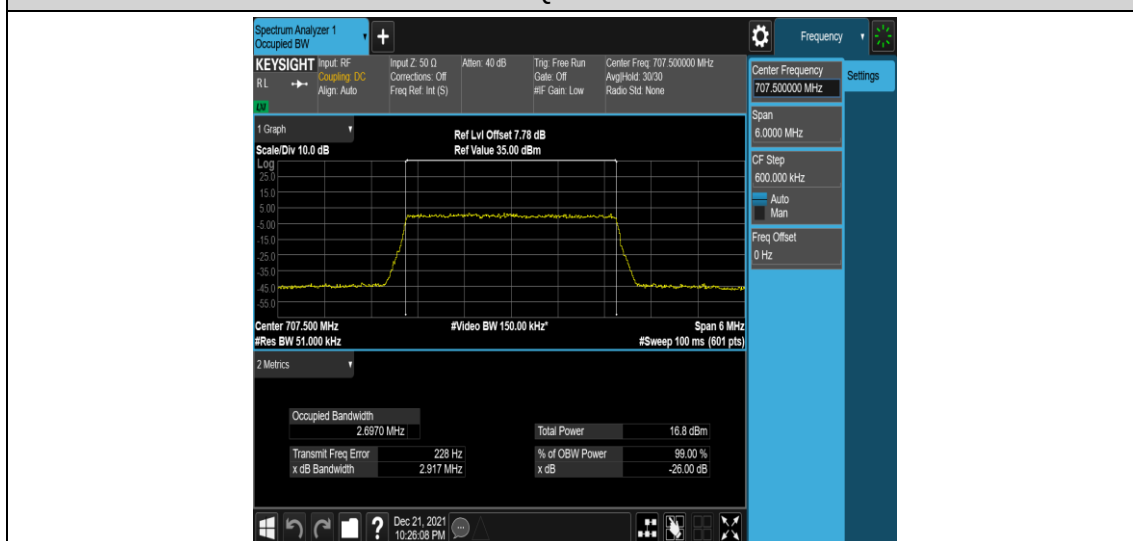




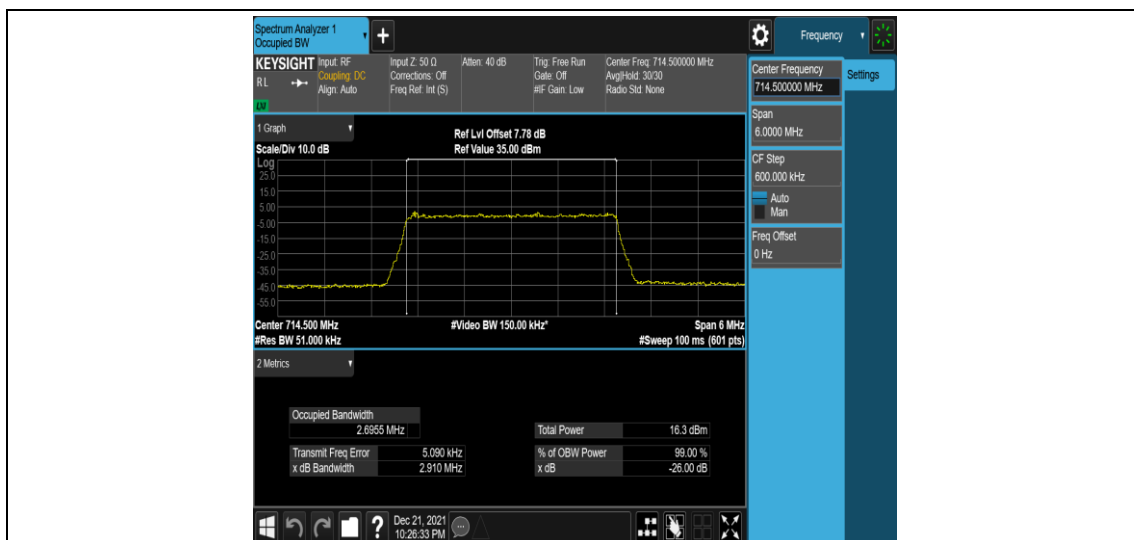
Band12-1.4MHz-16QAM-23173-6RB#0



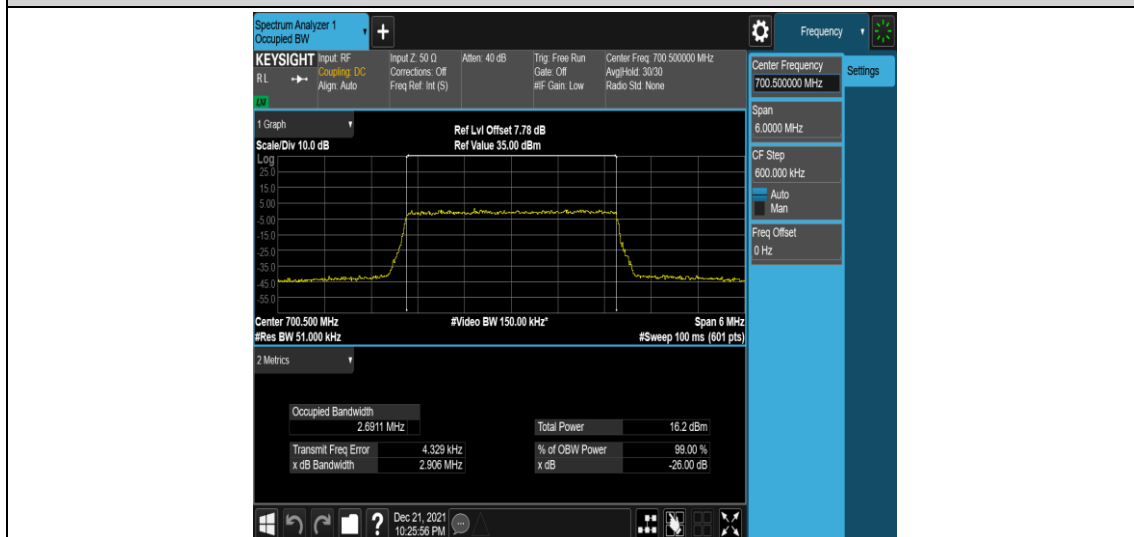
Band12-3MHz-QPSK-23025-15RB#0



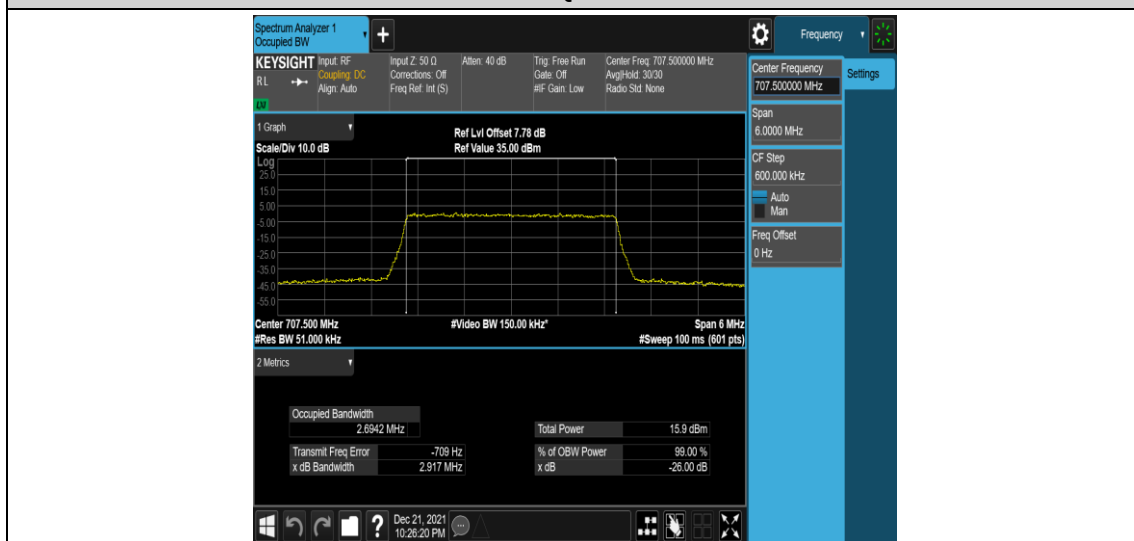
Band12-3MHz-QPSK-23095-15RB#0



Band12-3MHz-QPSK-23165-15RB#0



Band12-3MHz-16QAM-23025-15RB#0



Band12-3MHz-16QAM-23095-15RB#0