

Appendix for Band 12

Product Name: LutiBand and GuardianCall

Model No: LBGC0001

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.44	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.41	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.38	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.50	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	24.49	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	24.47	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.54	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.34	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.23	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.21	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	24.31	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	24.33	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.29	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.25	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.96	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.00	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.01	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	24.08	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	24.06	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	24.12	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.22	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.38	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.39	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.33	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	23.37	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	23.37	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	23.37	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.54	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.19	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.17	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.15	PASS

Band12	1.4MHz	16QAM	23095	3RB#0	23.12	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	23.11	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	23.08	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.09	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.86	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.90	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.87	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	23.02	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	23.01	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	23.02	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.04	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.60	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.54	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.49	PASS
Band12	3MHz	QPSK	23025	8RB#0	23.55	PASS
Band12	3MHz	QPSK	23025	8RB#4	23.58	PASS
Band12	3MHz	QPSK	23025	8RB#7	23.50	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.52	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.21	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.21	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.09	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.30	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.30	PASS
Band12	3MHz	QPSK	23095	8RB#7	23.23	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.28	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.21	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.24	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.30	PASS
Band12	3MHz	QPSK	23165	8RB#0	23.13	PASS
Band12	3MHz	QPSK	23165	8RB#4	23.11	PASS
Band12	3MHz	QPSK	23165	8RB#7	23.15	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.13	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.49	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.38	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.35	PASS
Band12	3MHz	16QAM	23025	8RB#0	22.47	PASS
Band12	3MHz	16QAM	23025	8RB#4	22.50	PASS

Band12	3MHz	16QAM	23025	8RB#7	22.44	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.41	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.04	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.02	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.95	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.26	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.27	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.24	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.19	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.22	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.22	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.27	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.15	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.14	PASS
Band12	3MHz	16QAM	23165	8RB#7	22.18	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.14	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.78	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.72	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.64	PASS
Band12	5MHz	QPSK	23035	12RB#0	23.54	PASS
Band12	5MHz	QPSK	23035	12RB#6	23.51	PASS
Band12	5MHz	QPSK	23035	12RB#13	23.44	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.50	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.47	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.42	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.29	PASS
Band12	5MHz	QPSK	23095	12RB#0	23.32	PASS
Band12	5MHz	QPSK	23095	12RB#6	23.33	PASS
Band12	5MHz	QPSK	23095	12RB#13	23.25	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.30	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.30	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.30	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.37	PASS
Band12	5MHz	QPSK	23155	12RB#0	23.17	PASS
Band12	5MHz	QPSK	23155	12RB#6	23.20	PASS
Band12	5MHz	QPSK	23155	12RB#13	23.14	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.17	PASS

Band12	5MHz	16QAM	23035	1RB#0	23.54	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.46	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.39	PASS
Band12	5MHz	16QAM	23035	12RB#0	22.50	PASS
Band12	5MHz	16QAM	23035	12RB#6	22.49	PASS
Band12	5MHz	16QAM	23035	12RB#13	22.41	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.54	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.41	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.40	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.28	PASS
Band12	5MHz	16QAM	23095	12RB#0	22.35	PASS
Band12	5MHz	16QAM	23095	12RB#6	22.34	PASS
Band12	5MHz	16QAM	23095	12RB#13	22.26	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.25	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.12	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.07	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.13	PASS
Band12	5MHz	16QAM	23155	12RB#0	22.15	PASS
Band12	5MHz	16QAM	23155	12RB#6	22.15	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.12	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.16	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.82	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.55	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.36	PASS
Band12	10MHz	QPSK	23060	25RB#0	23.50	PASS
Band12	10MHz	QPSK	23060	25RB#12	23.49	PASS
Band12	10MHz	QPSK	23060	25RB#25	23.37	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.45	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.43	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.37	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.15	PASS
Band12	10MHz	QPSK	23095	25RB#0	23.37	PASS
Band12	10MHz	QPSK	23095	25RB#12	23.37	PASS
Band12	10MHz	QPSK	23095	25RB#25	23.29	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.36	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.26	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.10	PASS

Band12	10MHz	QPSK	23130	1RB#49	24.06	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.21	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.21	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.13	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.25	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.66	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.54	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.34	PASS
Band12	10MHz	16QAM	23060	25RB#0	22.47	PASS
Band12	10MHz	16QAM	23060	25RB#12	22.46	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.37	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.43	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.29	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.22	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.97	PASS
Band12	10MHz	16QAM	23095	25RB#0	22.41	PASS
Band12	10MHz	16QAM	23095	25RB#12	22.42	PASS
Band12	10MHz	16QAM	23095	25RB#25	22.26	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.34	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.06	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.91	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.92	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.28	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.27	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.17	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.20	PASS

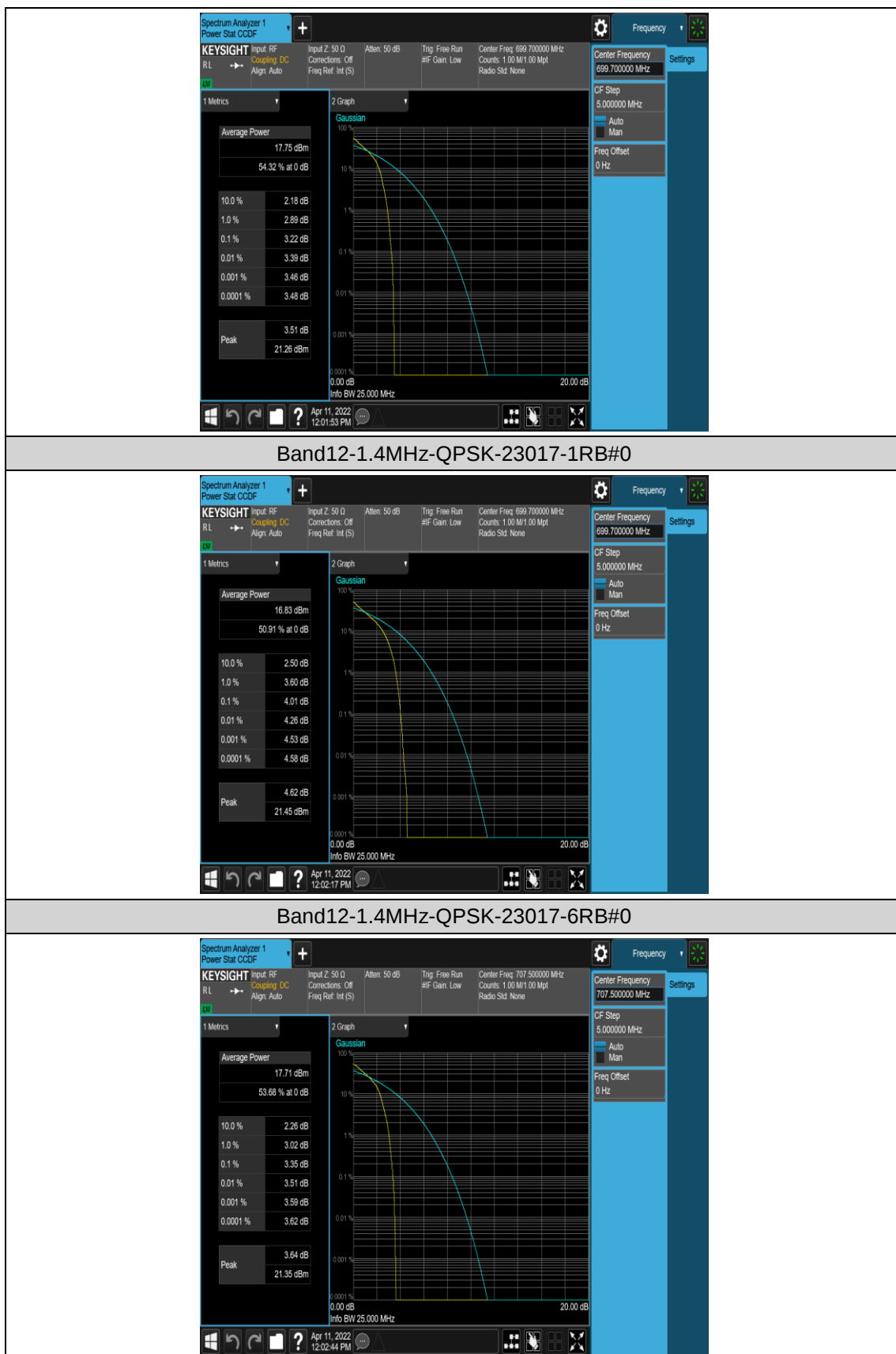
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

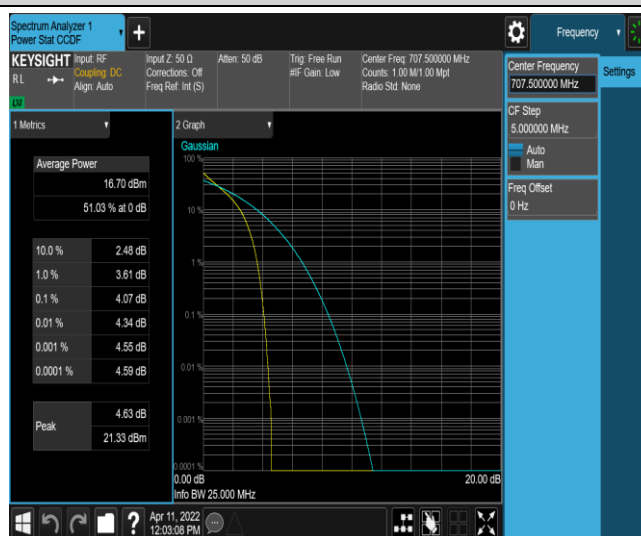
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Band12	1.4MHz	QPSK	23017	1RB#0	3.22	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	4.01	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	3.35	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.07	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3.21	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	3.73	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	4.28	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	4.89	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.40	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	4.90	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.25	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	4.60	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	3.14	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	4.09	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	3.38	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	4.10	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	3.51	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.09	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	4.04	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.04	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	4.22	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	4.98	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	4.44	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.00	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	3.16	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.27	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	3.42	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.15	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	3.55	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.34	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	4.05	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.13	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	4.24	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.02	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	4.45	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.21	13	PASS

Band12	10MHz	QPSK	23060	1RB#0	3.19	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	4.33	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	3.65	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.42	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	3.30	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.36	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	4.17	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.21	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	4.51	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.26	13	PASS
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Band12	10MHz	16QAM	23130	50RB#0	5.20	13	PASS

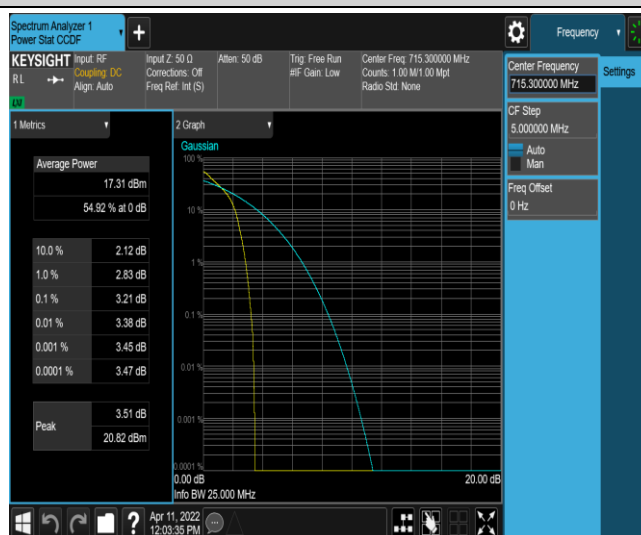
Test Graphs



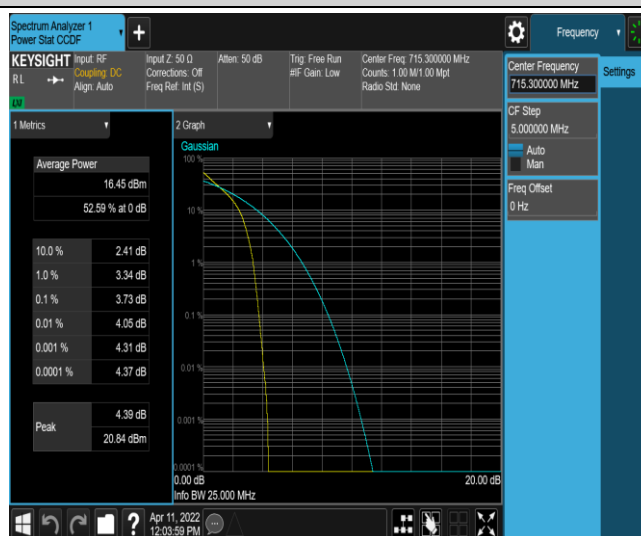
Band12-1.4MHz-QPSK-23095-1RB#0



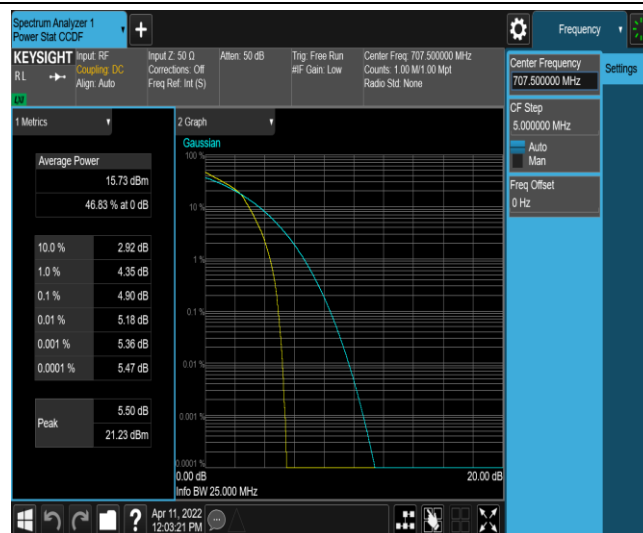
Band12-1.4MHz-QPSK-23095-6RB#0



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



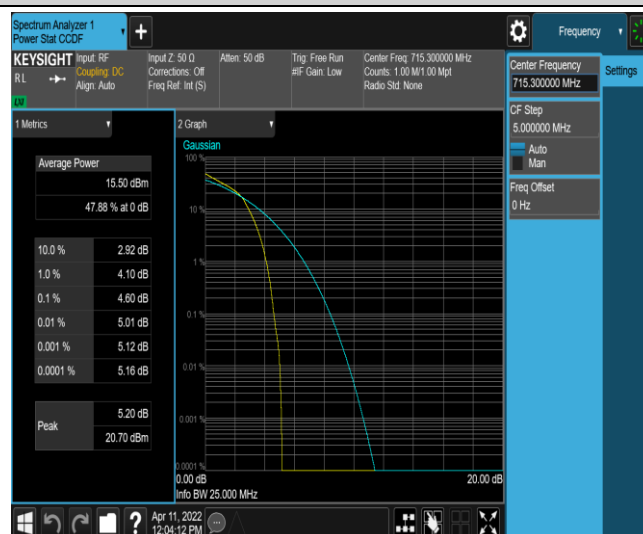
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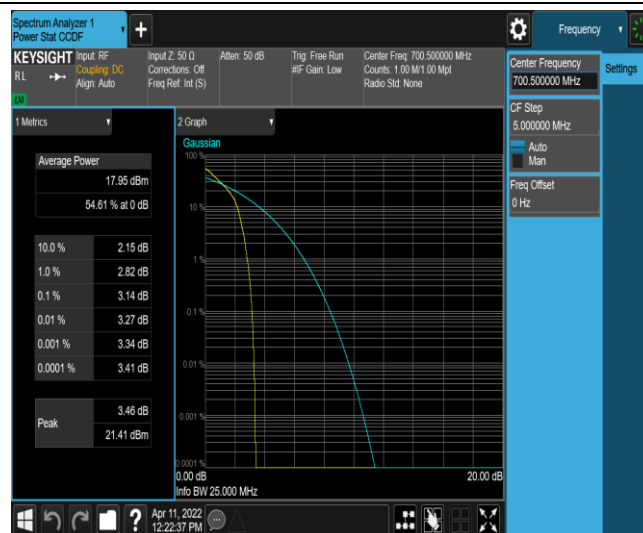
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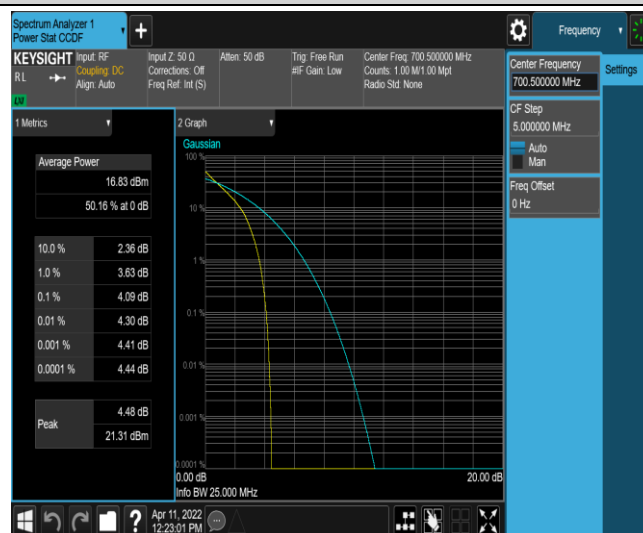
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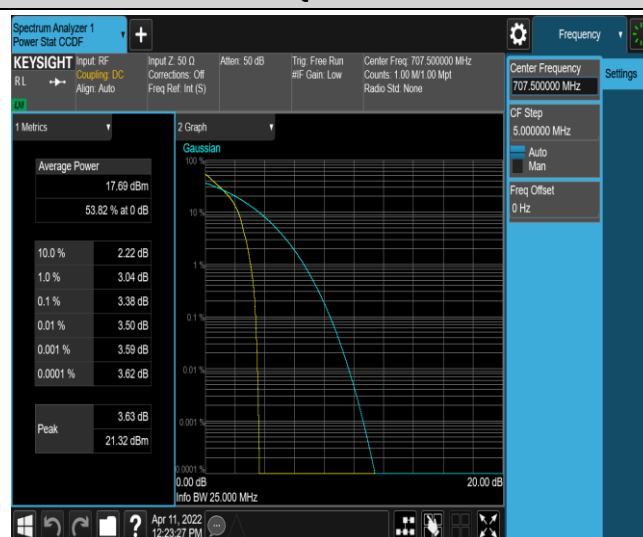
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Band12-3MHz-QPSK-23025-1RB#0

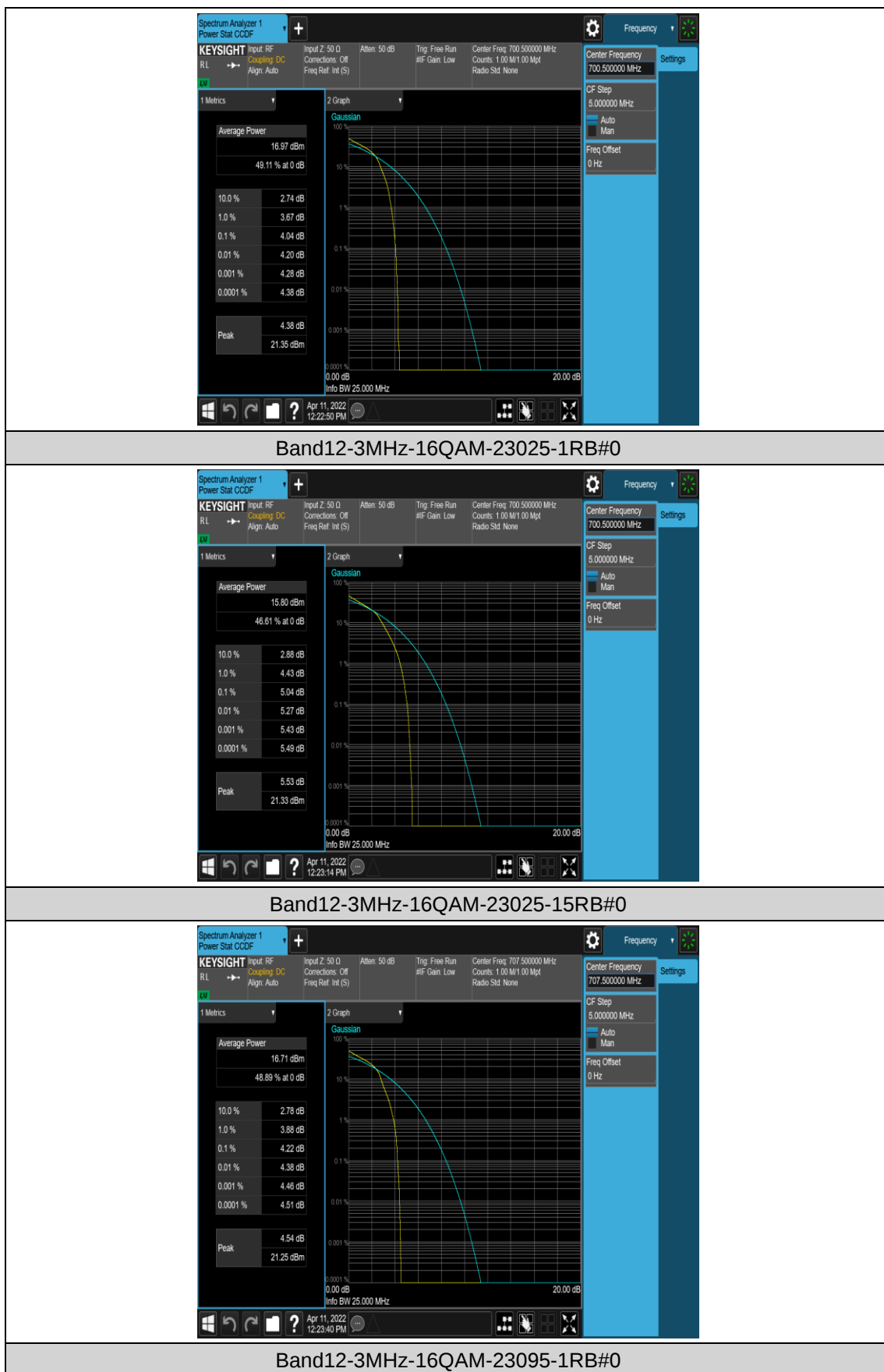


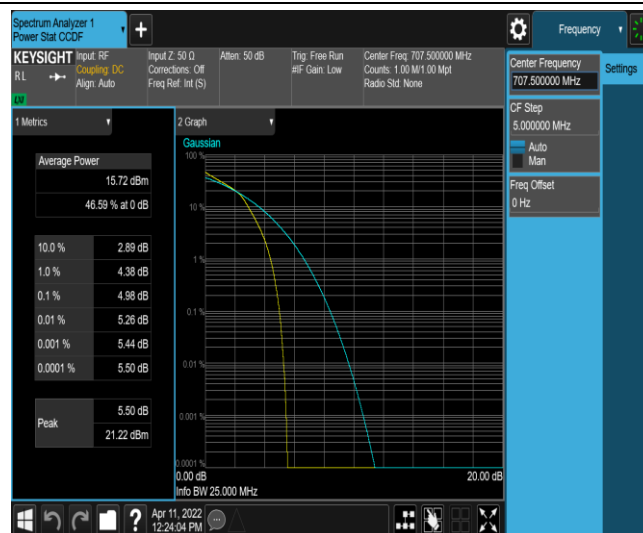
Band12-3MHz-QPSK-23025-15RB#0



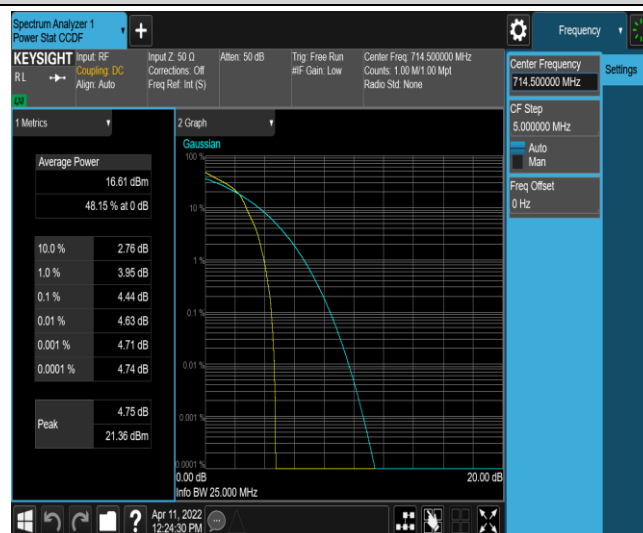
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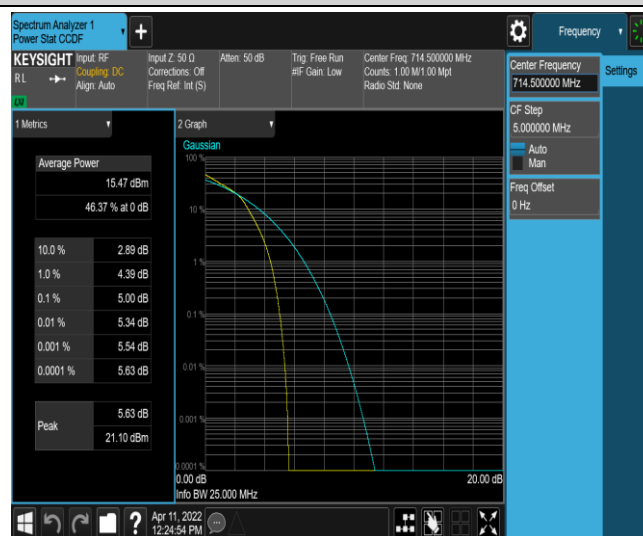




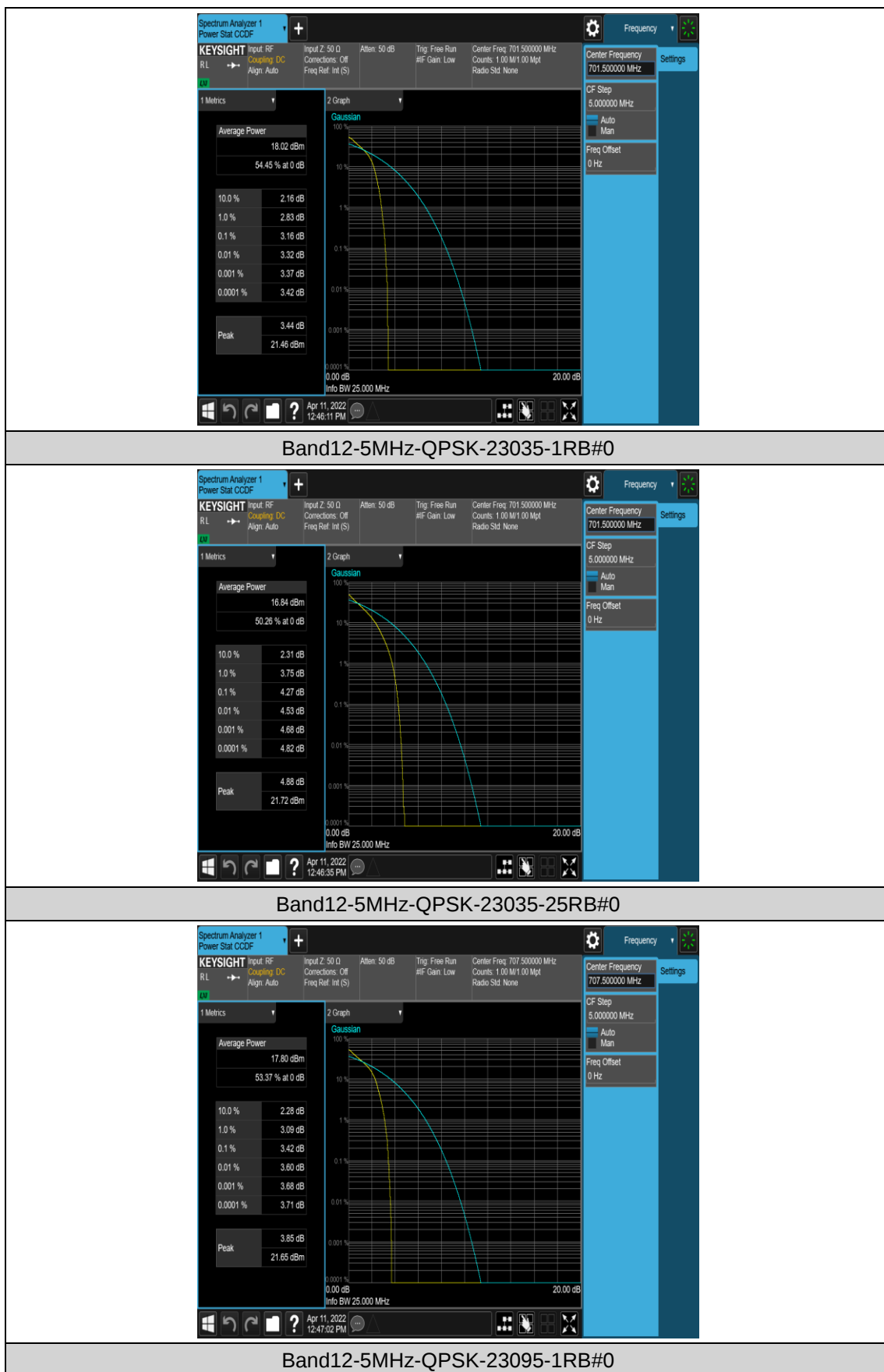
Band12-3MHz-16QAM-23095-15RB#0



Band12-3MHz-16QAM-23165-1RB#0



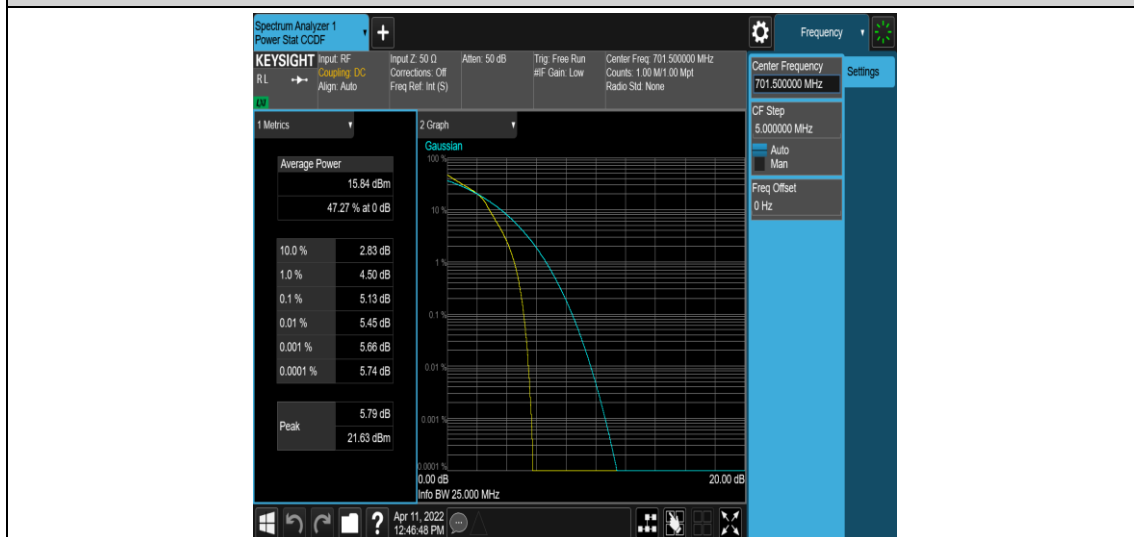
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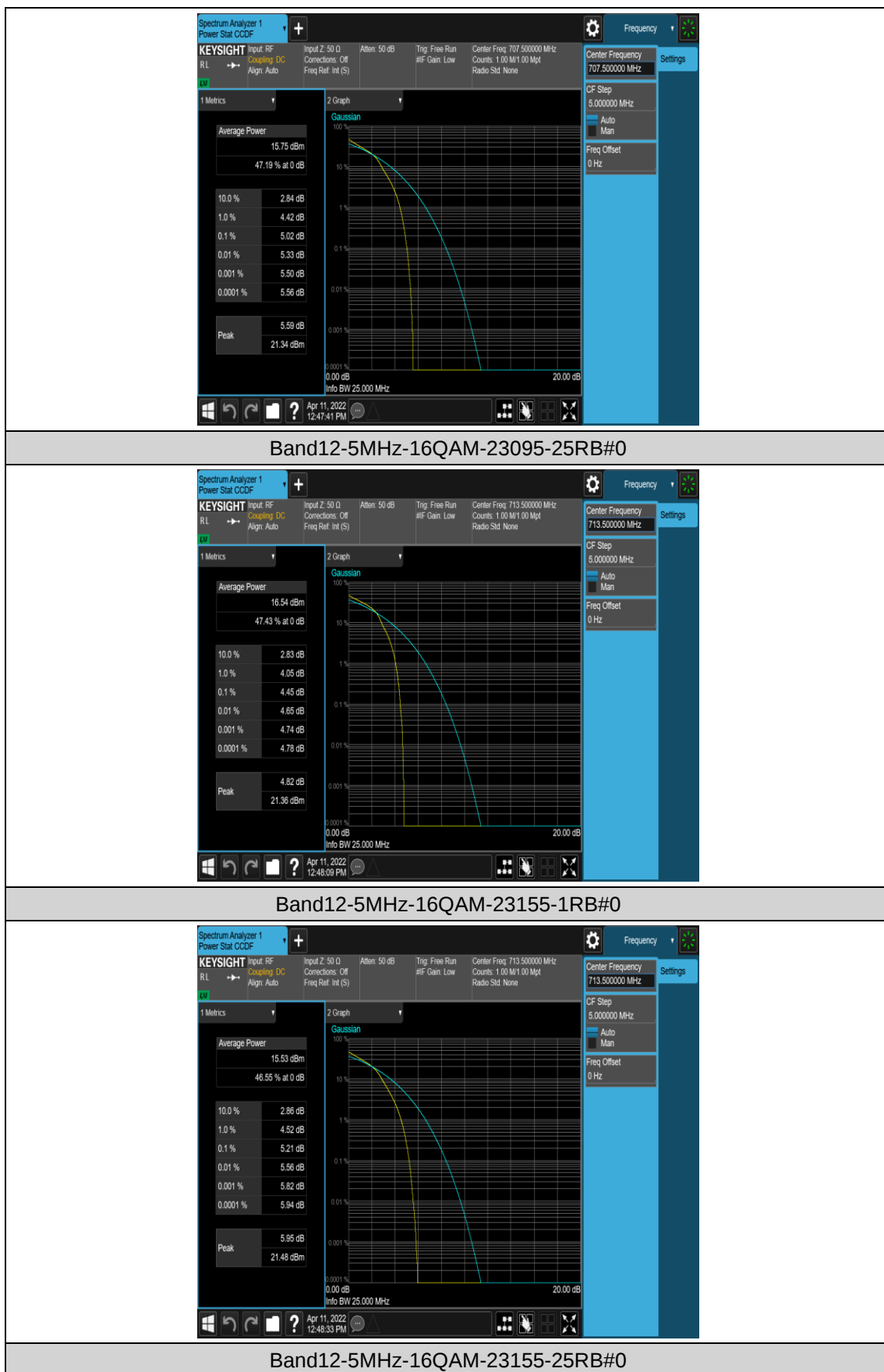
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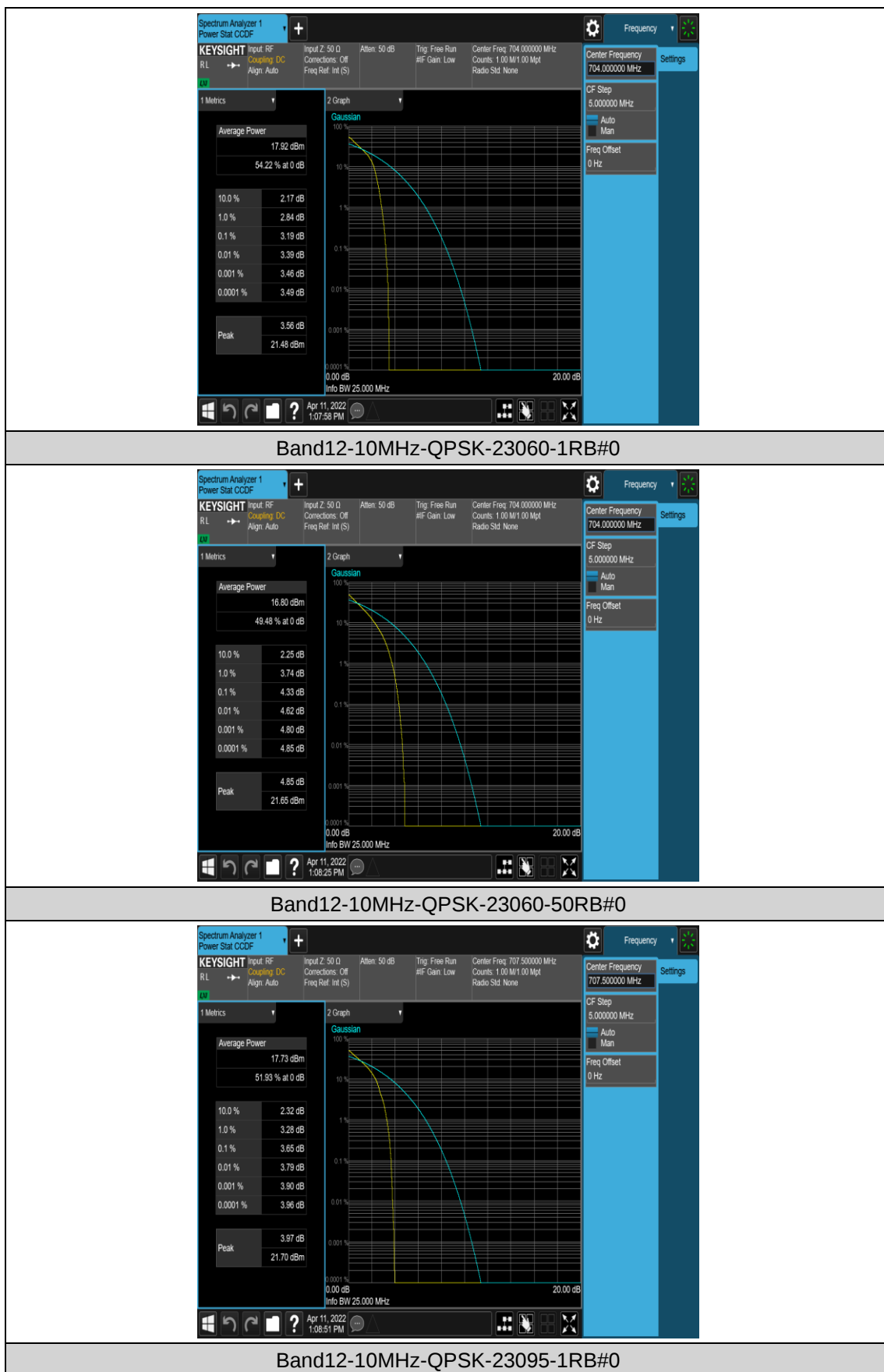


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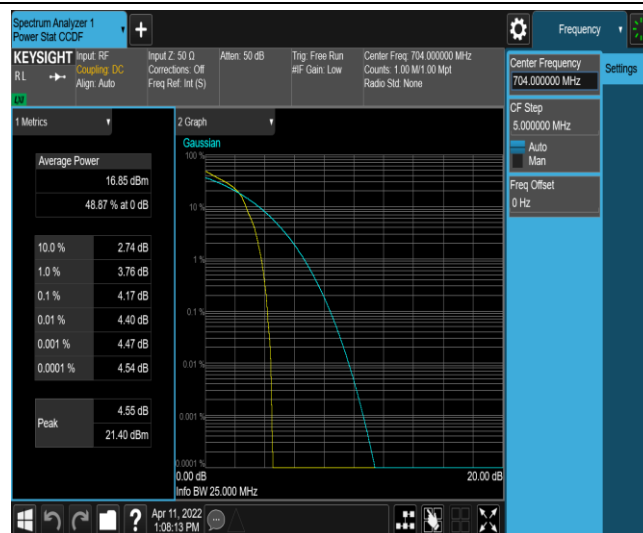


Band12-5MHz-16QAM-23095-1RB#0

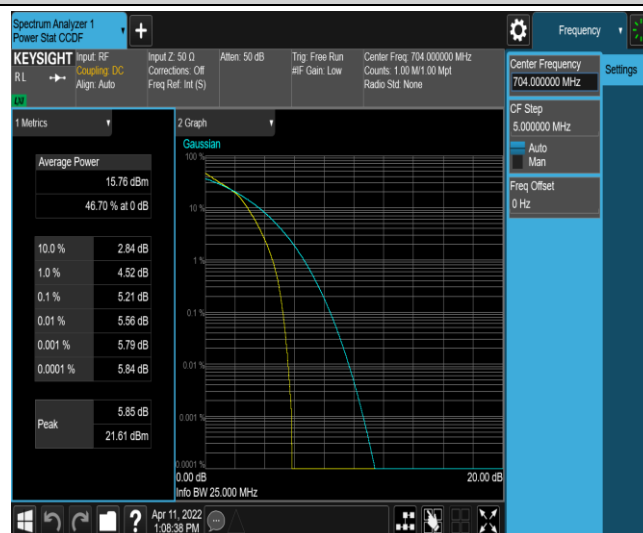




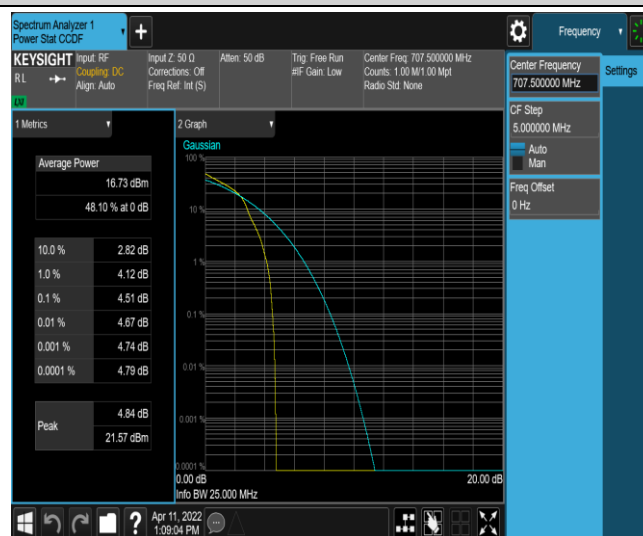




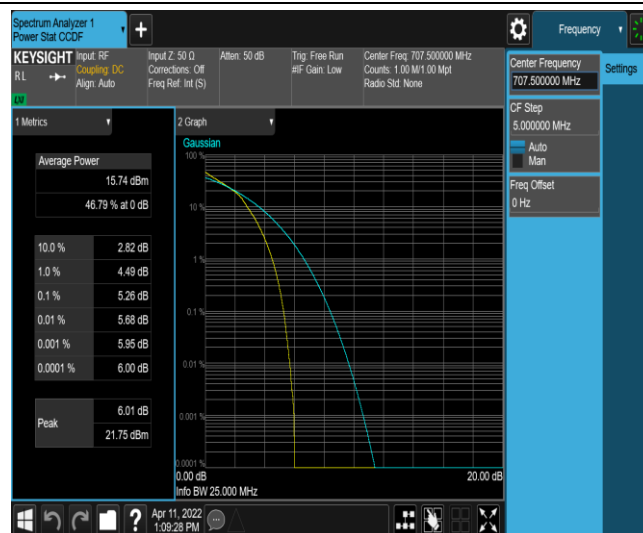
Band12-10MHz-16QAM-23060-1RB#0



Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-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

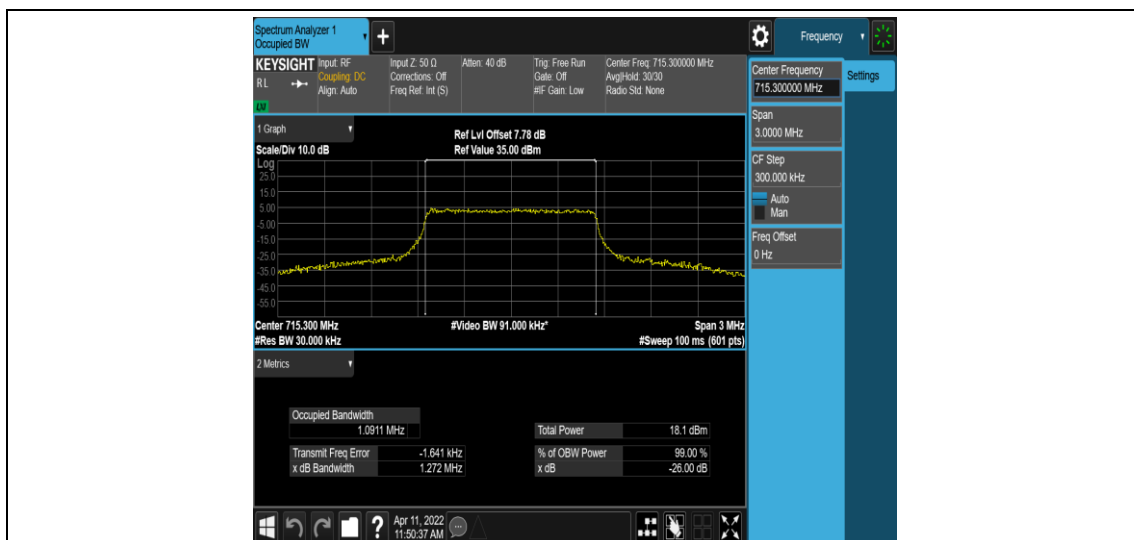
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0905	1.278	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0924	1.269	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0931	1.280	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0896	1.275	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0909	1.262	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0911	1.272	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6929	2.873	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6990	2.884	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6933	2.870	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6906	2.868	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6914	2.886	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6922	2.857	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5012	4.846	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5052	4.851	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4950	4.856	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5023	4.812	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4935	4.875	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5001	4.804	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9848	9.548	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9932	9.546	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9783	9.550	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9708	9.515	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9863	9.522	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9577	9.530	PASS

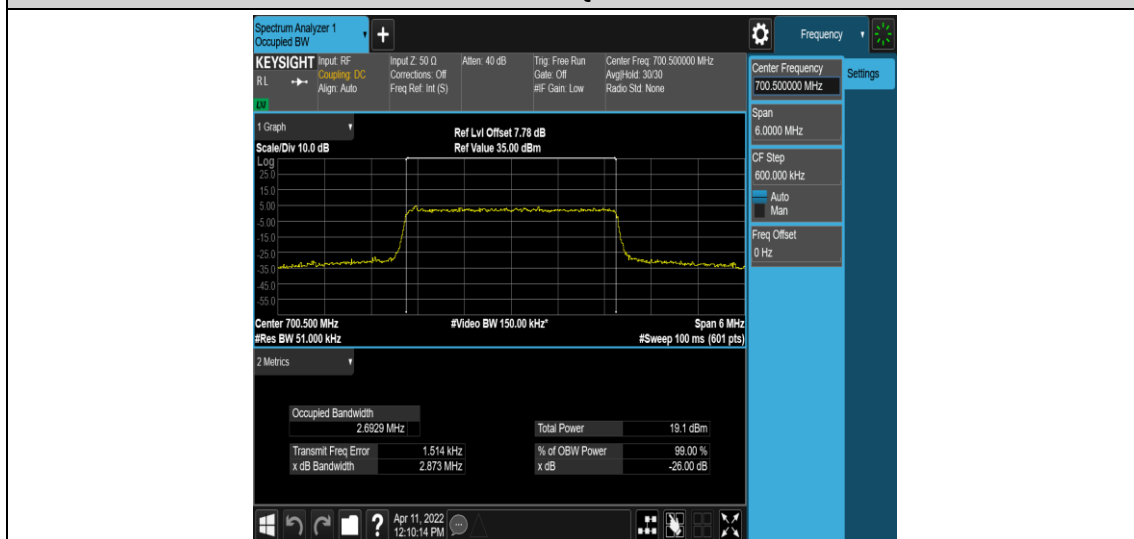
Test Graphs



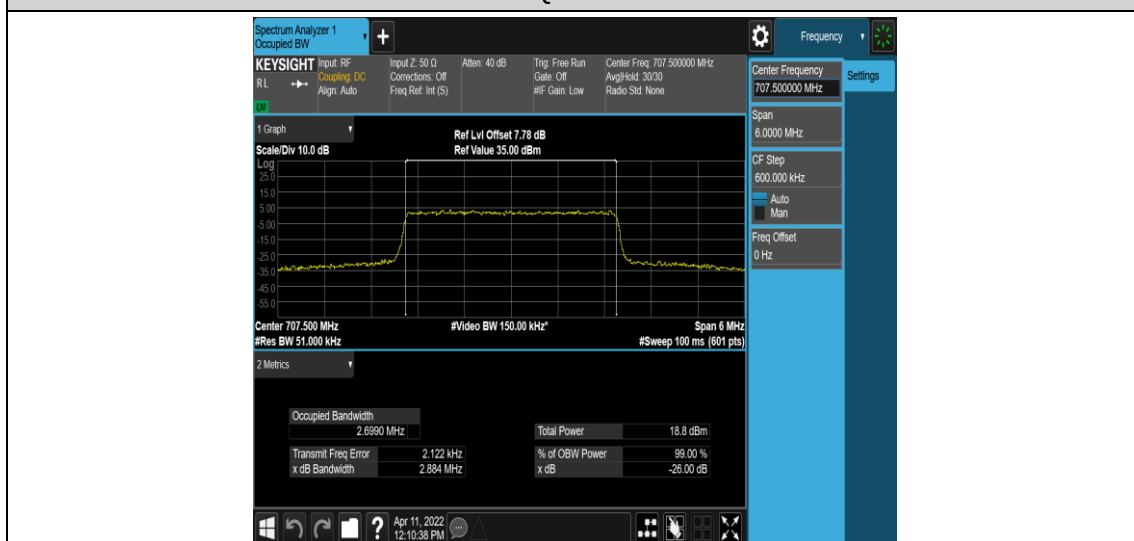




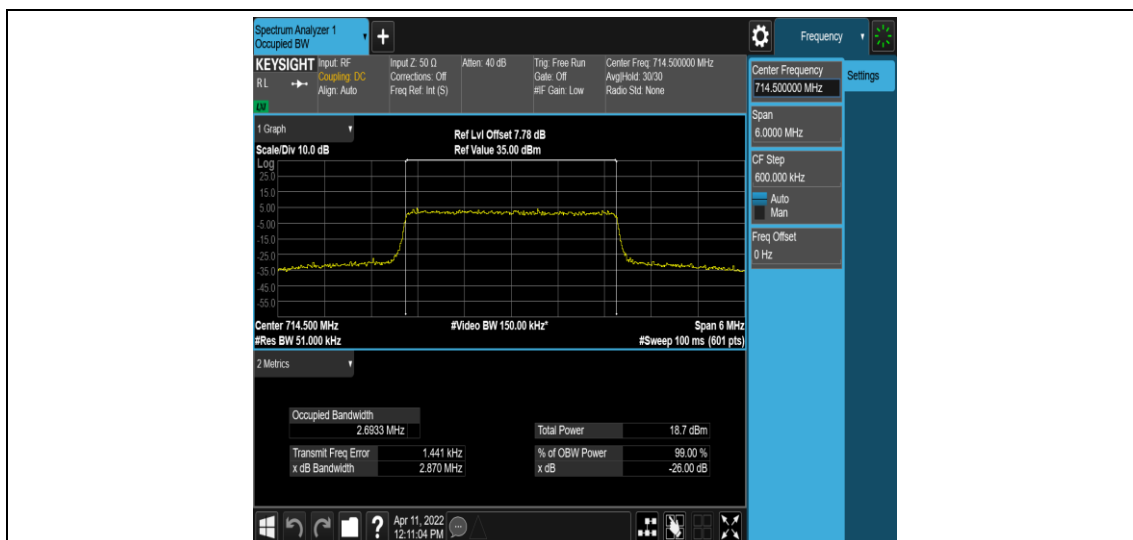
Band12-1.4MHz-16QAM-23173-6RB#0



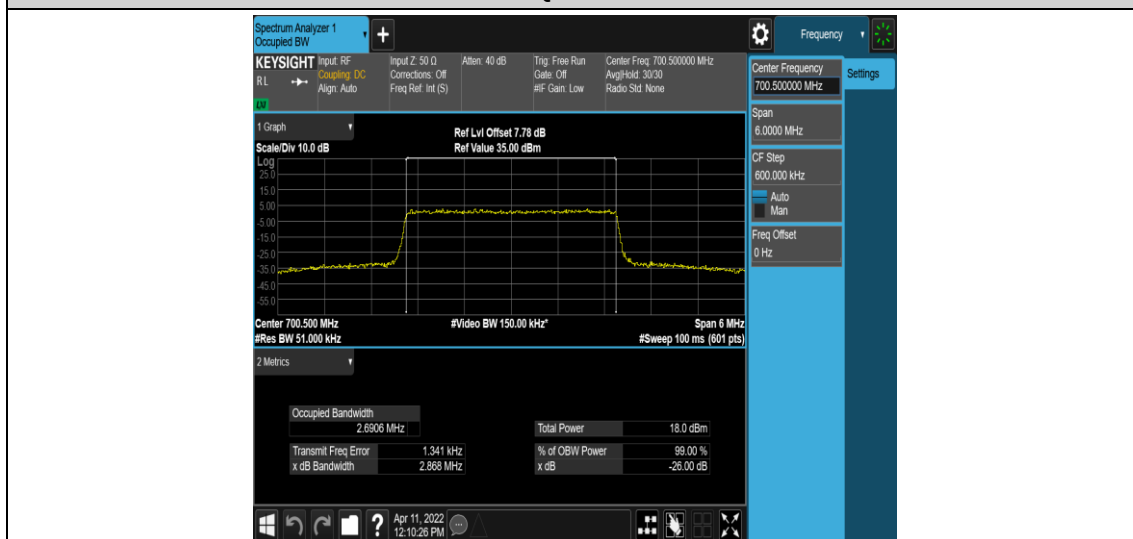
Band12-3MHz-QPSK-23025-15RB#0



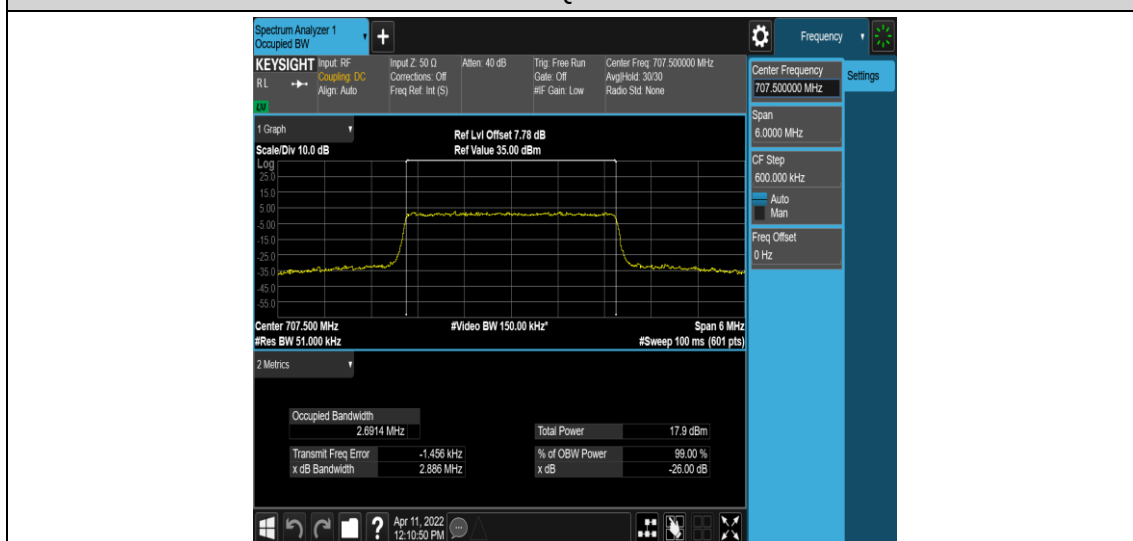
Band12-3MHz-QPSK-23095-15RB#0



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



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



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