

Appendix for Band 5

Product Name: LTE Module

Model No: Global-7243A4x4CB

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.07	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.28	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.09	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.15	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.15	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.21	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.22	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.91	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.11	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.71	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.93	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.91	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.70	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.91	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.55	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.43	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.87	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.35	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.32	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.05	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.35	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.19	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.40	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.29	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.03	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.02	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.15	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.50	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.86	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.06	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.69	PASS

Band5	1.4MHz	16QAM	20525	3RB#0	21.80	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.79	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.63	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.81	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.40	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.42	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.99	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.33	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.30	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.02	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.28	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.08	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.30	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.22	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.53	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.54	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.30	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.28	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.78	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.64	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.44	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.25	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.25	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.72	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.88	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.23	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.47	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.93	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.62	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.59	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.37	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.34	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.06	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.27	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.11	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.65	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.65	PASS

Band5	3MHz	16QAM	20415	8RB#7	20.40	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.36	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.94	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.90	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.58	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.41	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.40	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.86	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.94	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.33	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.51	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.09	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.75	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.72	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.38	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.48	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.04	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.44	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.42	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.60	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.61	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.42	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.43	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.77	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.78	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.38	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.29	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.28	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.65	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.89	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.77	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.89	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.36	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.34	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.16	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.17	PASS

Band5	5MHz	16QAM	20425	1RB#0	21.25	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.65	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.42	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.80	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.80	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.61	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.56	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.70	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.81	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.42	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.43	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.43	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.81	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.98	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.79	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.46	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.97	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.48	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.59	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.26	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.32	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.27	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.93	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.32	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.67	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.57	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.25	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.85	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.13	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.88	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.92	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.23	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.24	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.78	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.12	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.60	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.12	PASS

Band5	10MHz	QPSK	20600	1RB#49	23.31	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.09	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.08	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.47	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.15	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.25	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.74	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.33	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.72	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.73	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.19	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.93	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.03	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.81	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.74	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.31	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.31	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.95	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.30	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.86	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.15	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.51	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.10	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.09	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.58	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.43	PASS

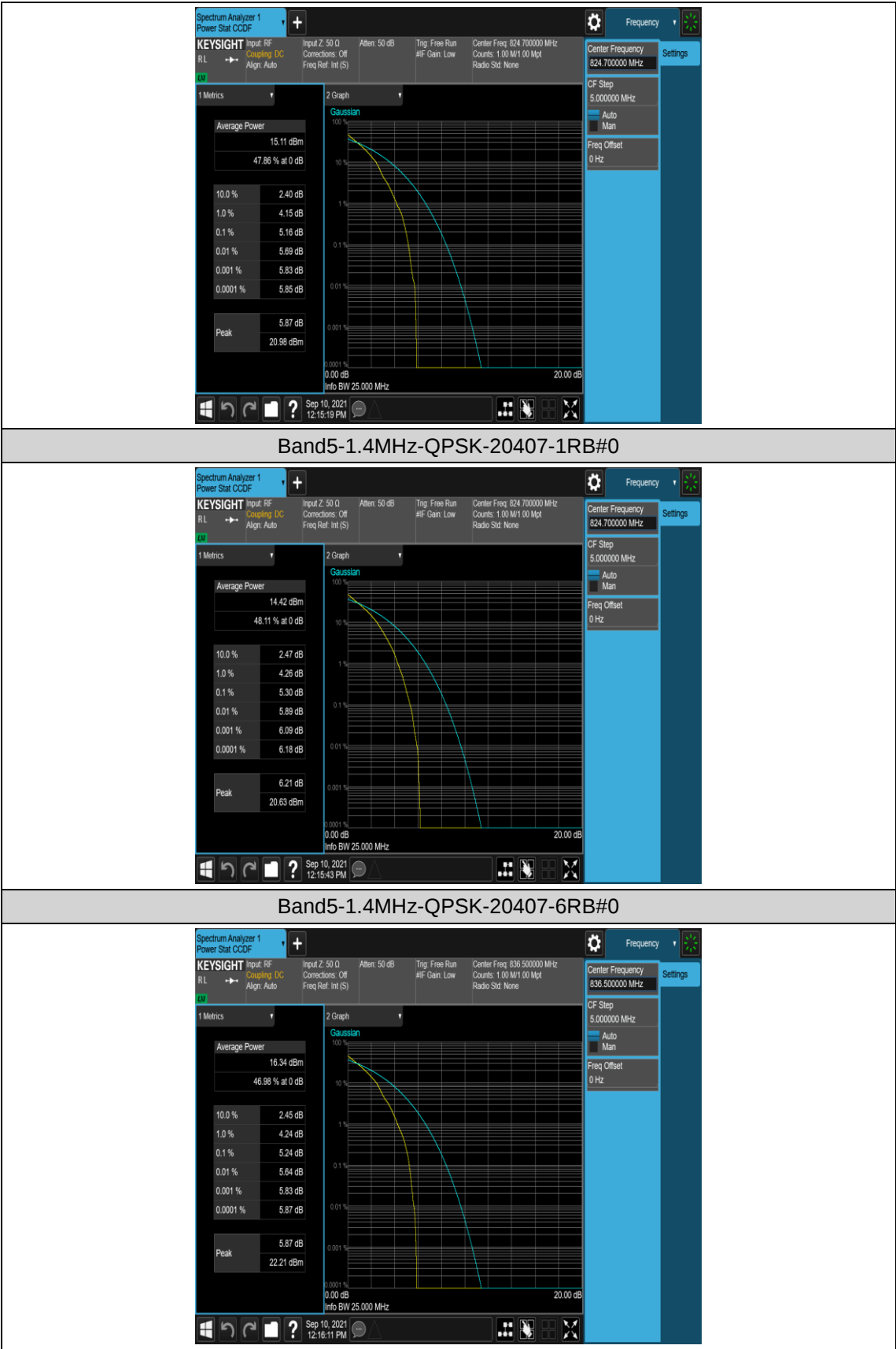
Appendix B: Peak-to-Average Ratio(CCDF)

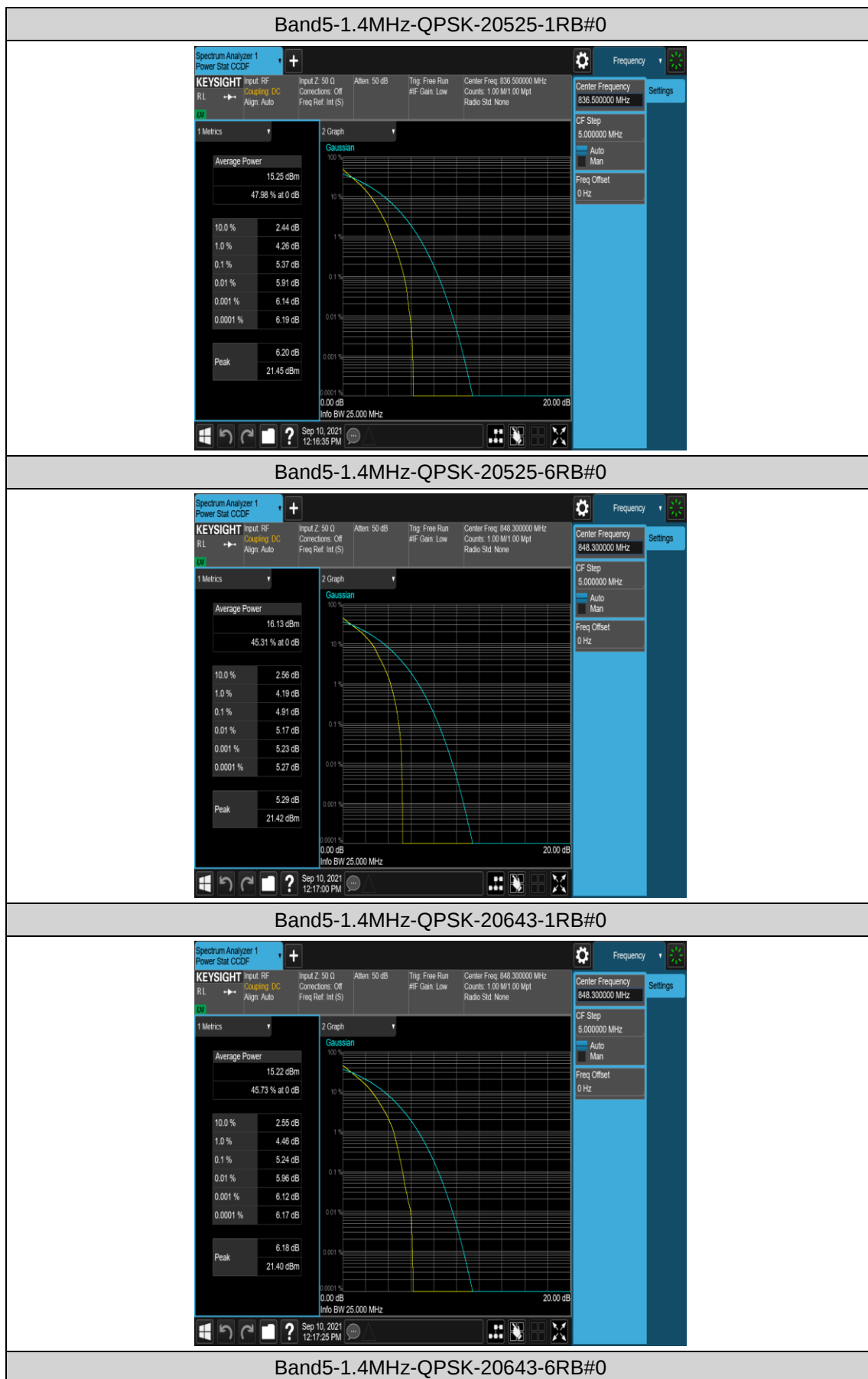
Test Result

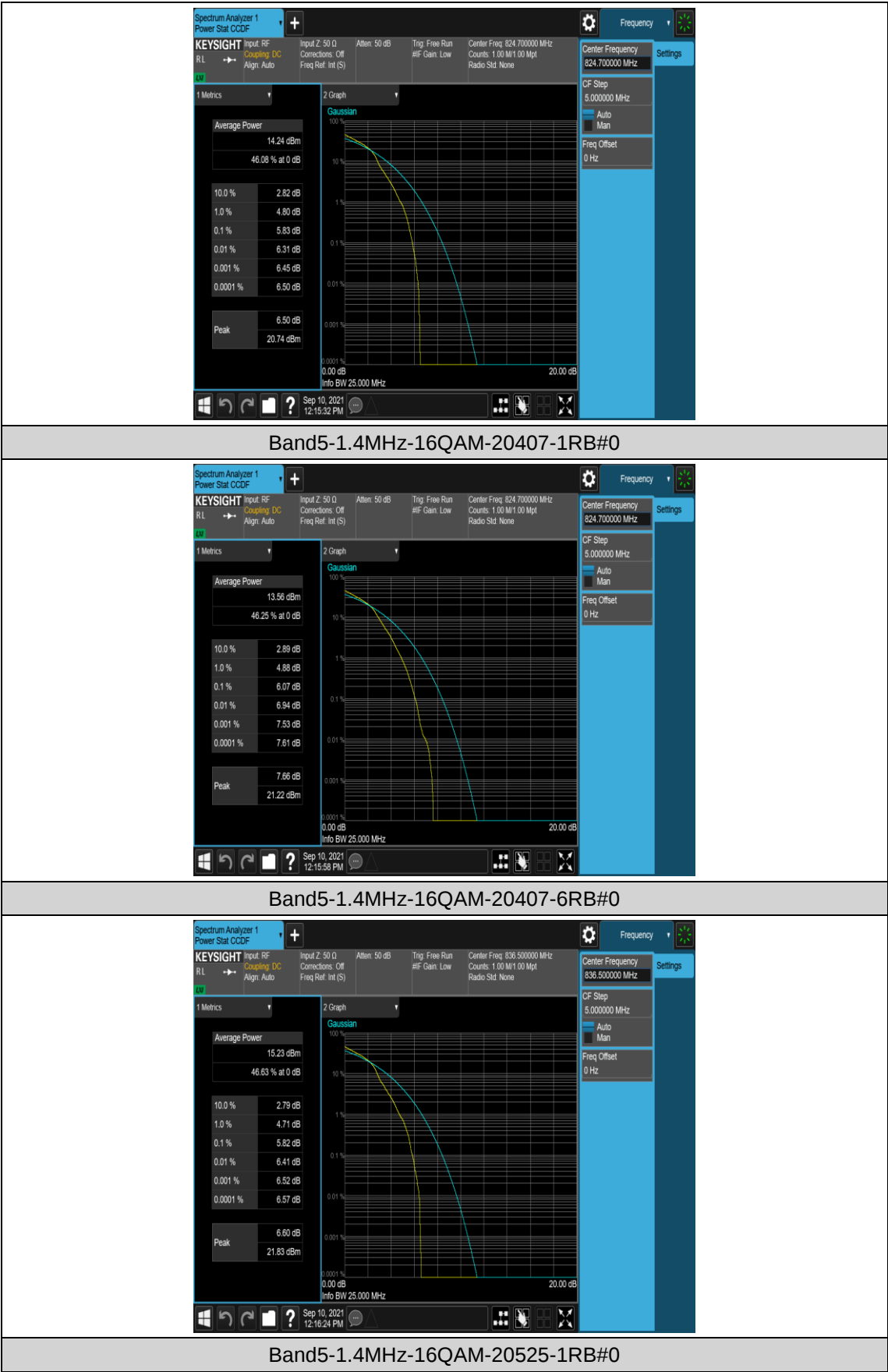
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	5.16	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.30	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	5.24	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.37	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.91	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.24	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.83	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.07	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.82	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.13	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.82	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.96	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	5.32	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.30	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	5.33	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.31	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	5.81	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.67	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.98	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.00	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	6.19	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.03	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	6.55	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.39	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.31	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.39	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.51	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.39	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	6.19	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.92	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.74	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.01	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.97	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.99	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	6.95	13	PASS

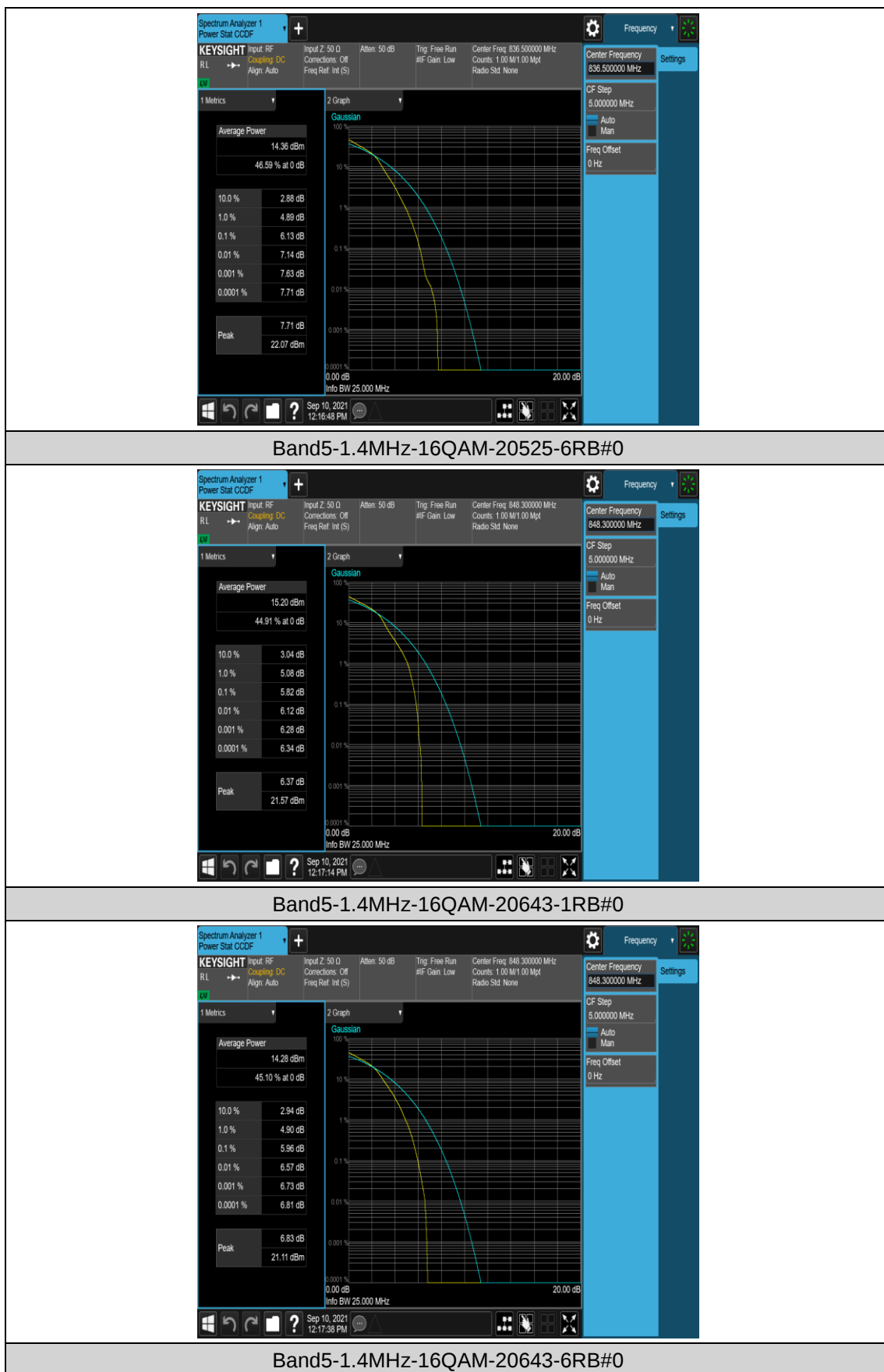
Band5	5MHz	16QAM	20625	25RB#0	6.61	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	5.14	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.44	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.57	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.36	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	5.16	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.64	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	6.13	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.10	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	6.47	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.03	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.87	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.55	13	PASS

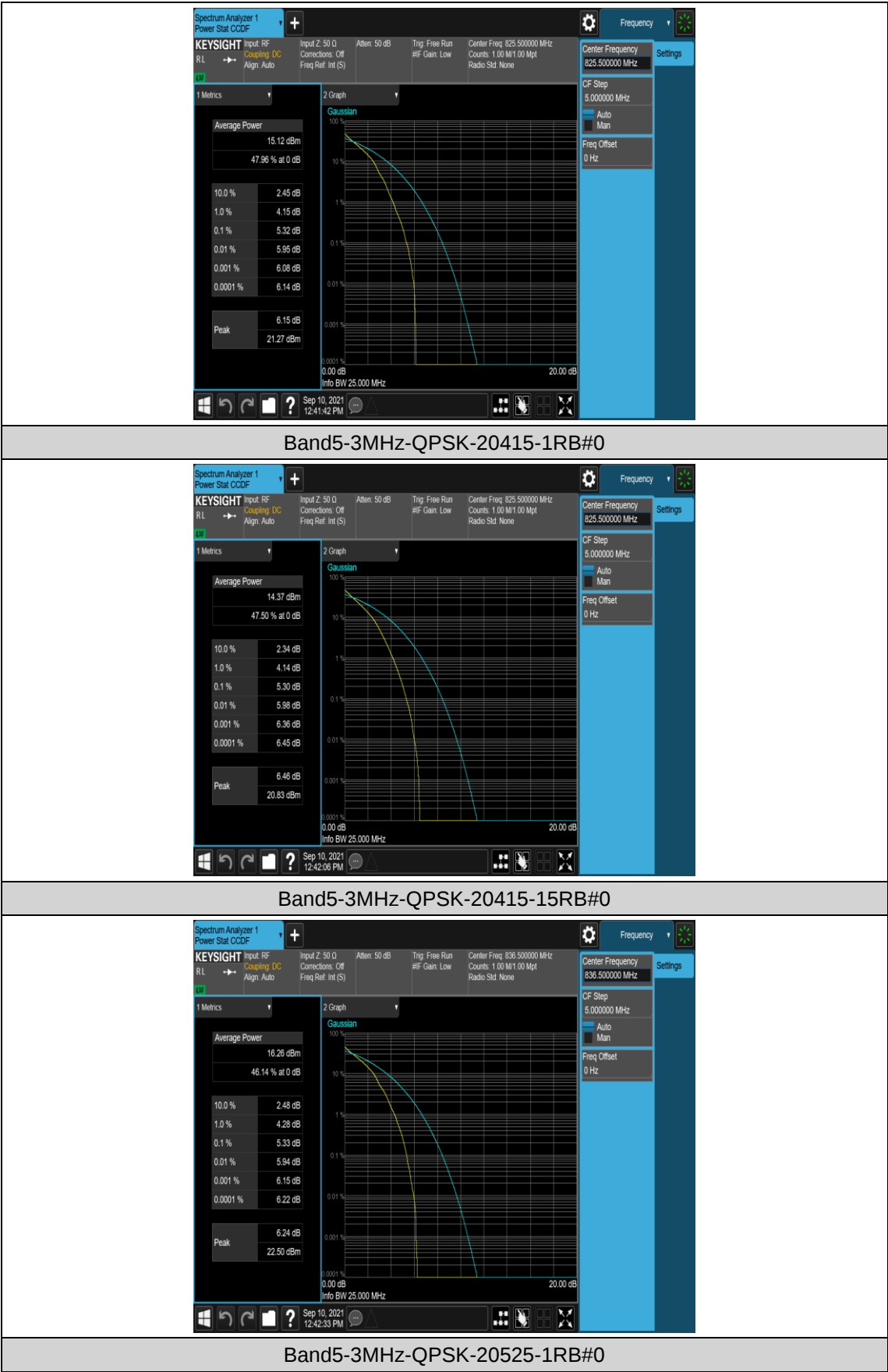
Test Graphs

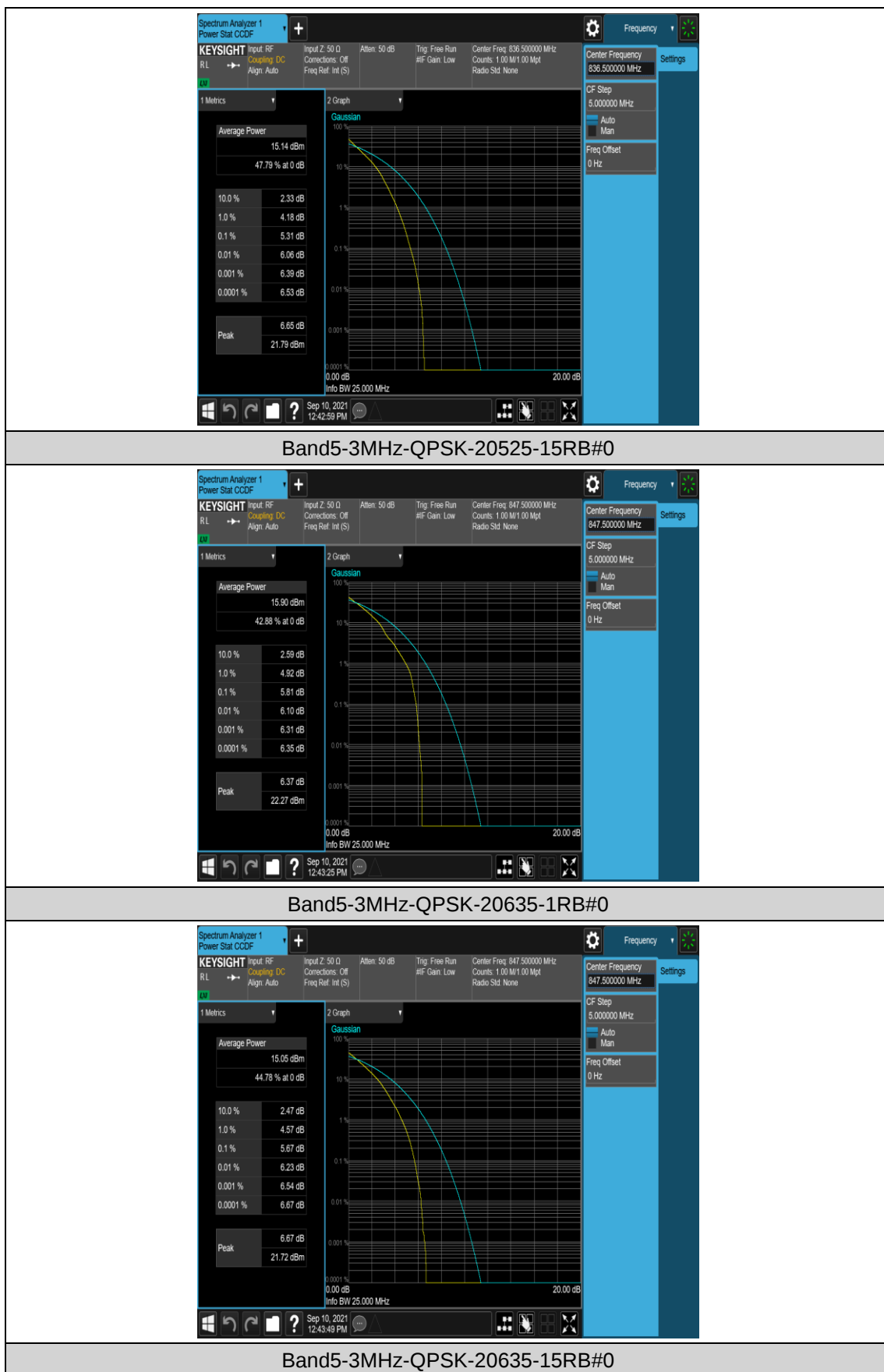


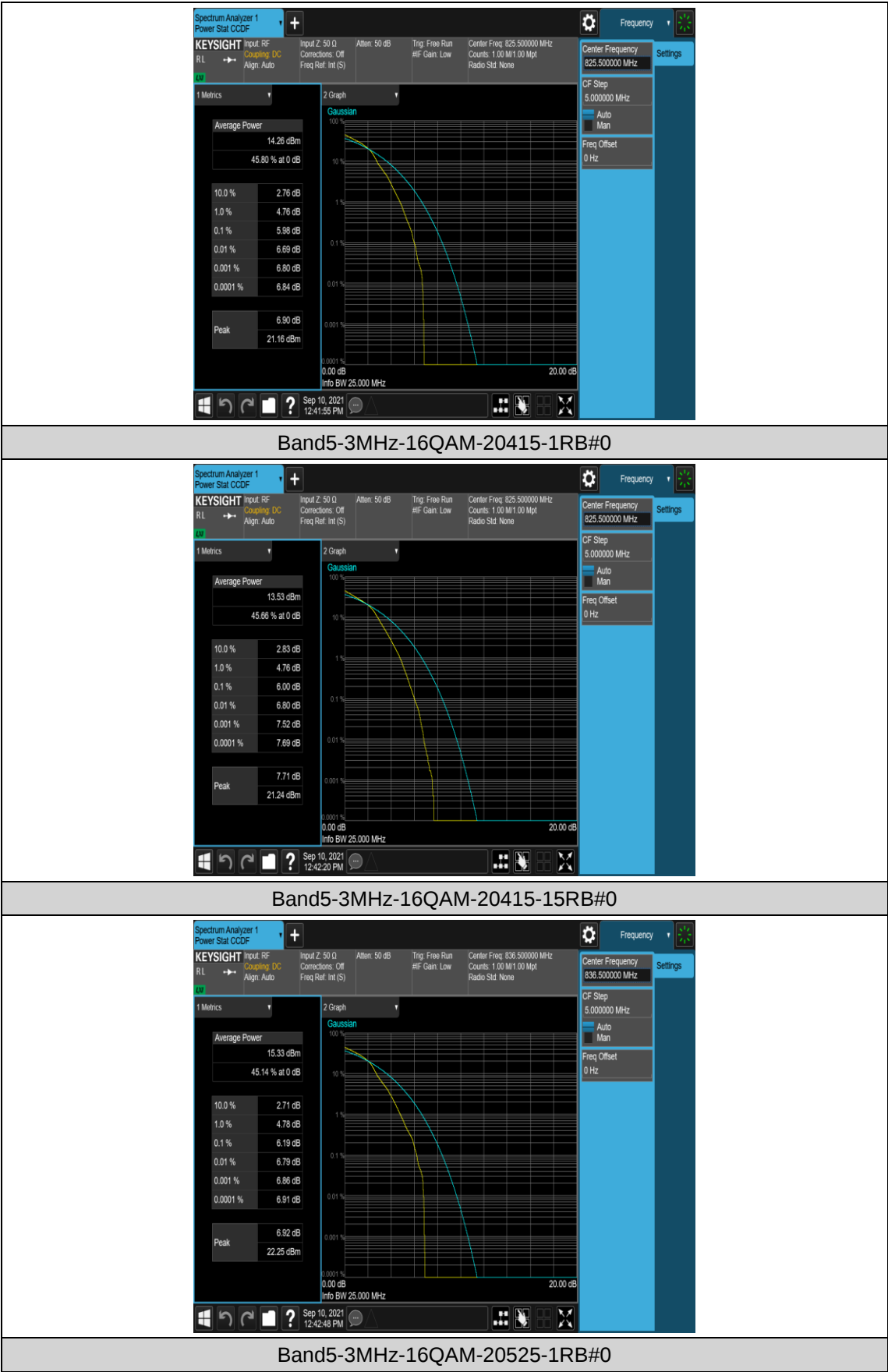


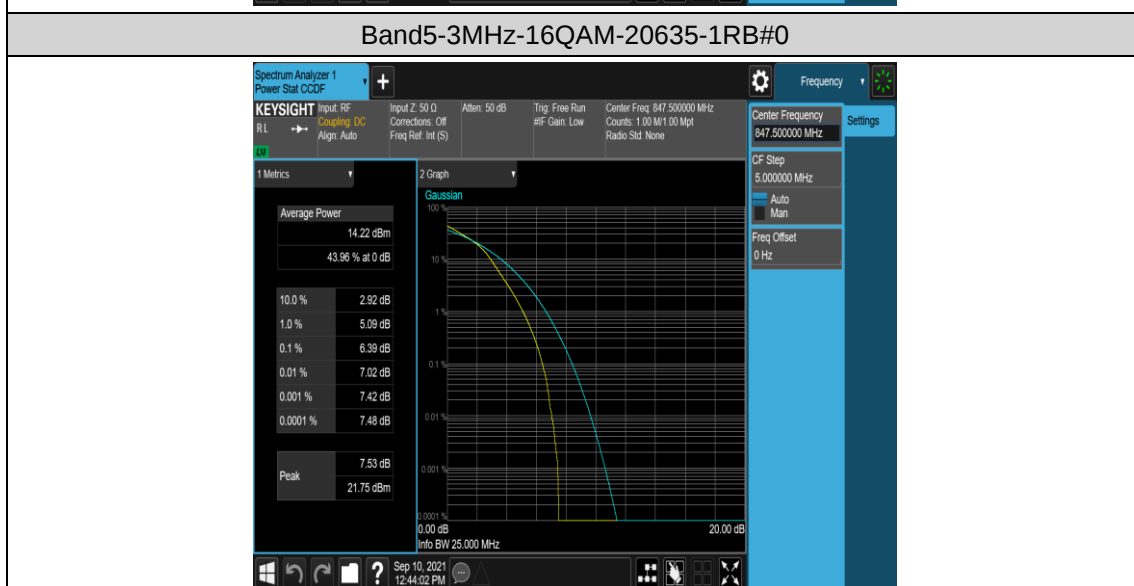
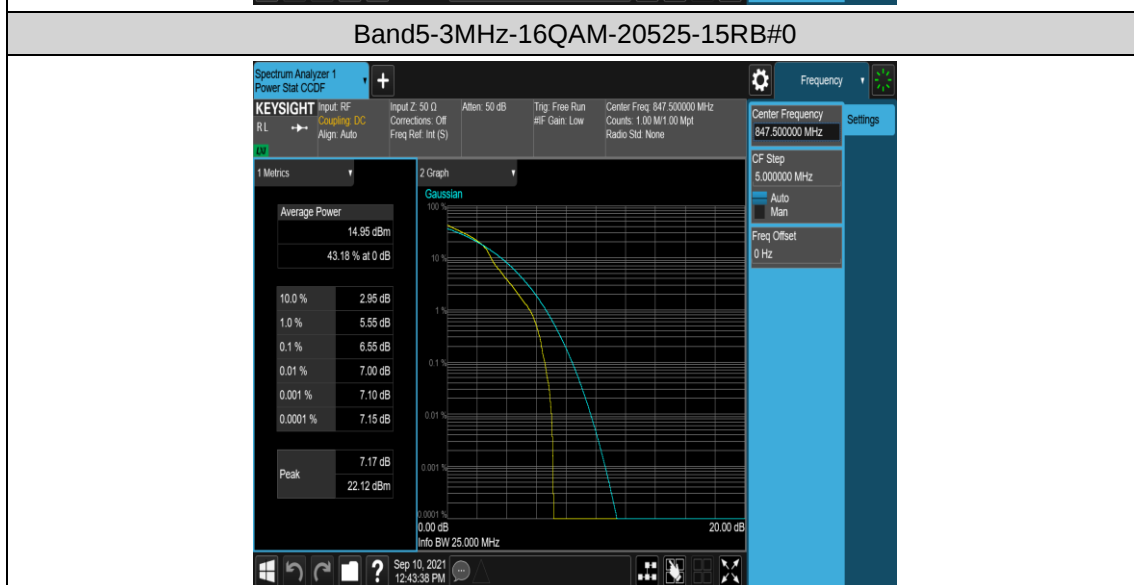
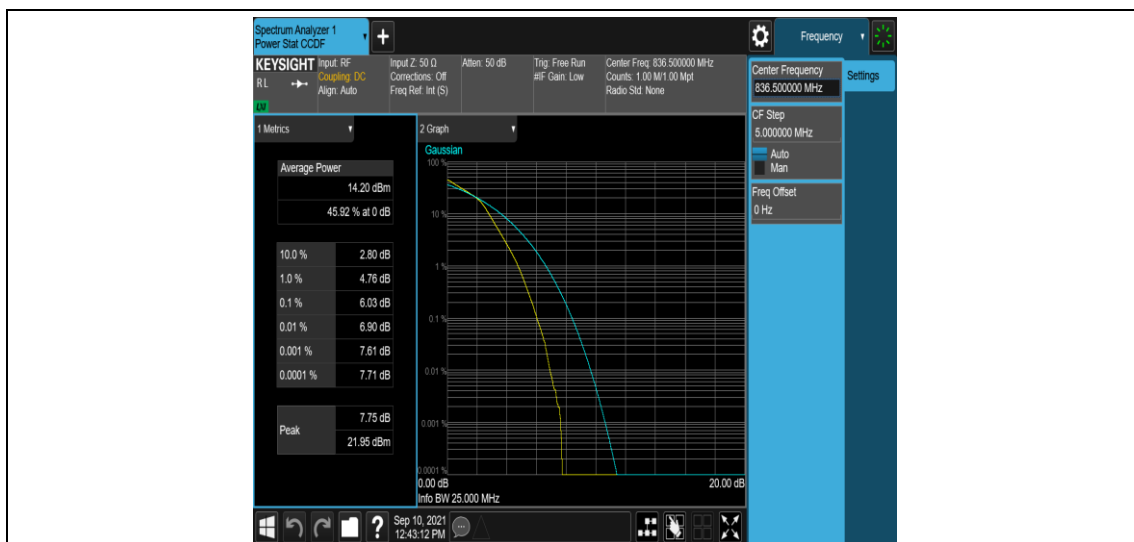


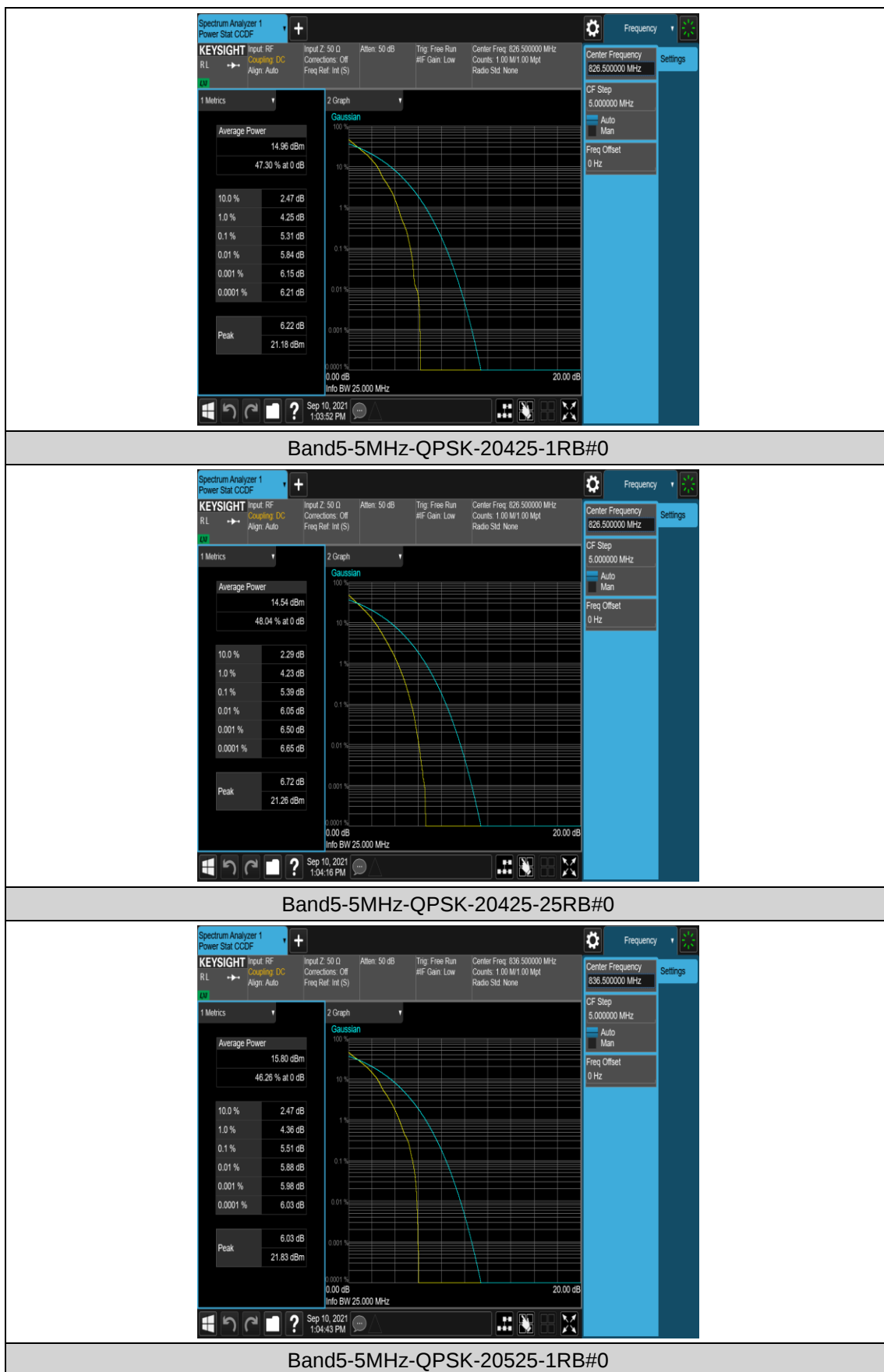


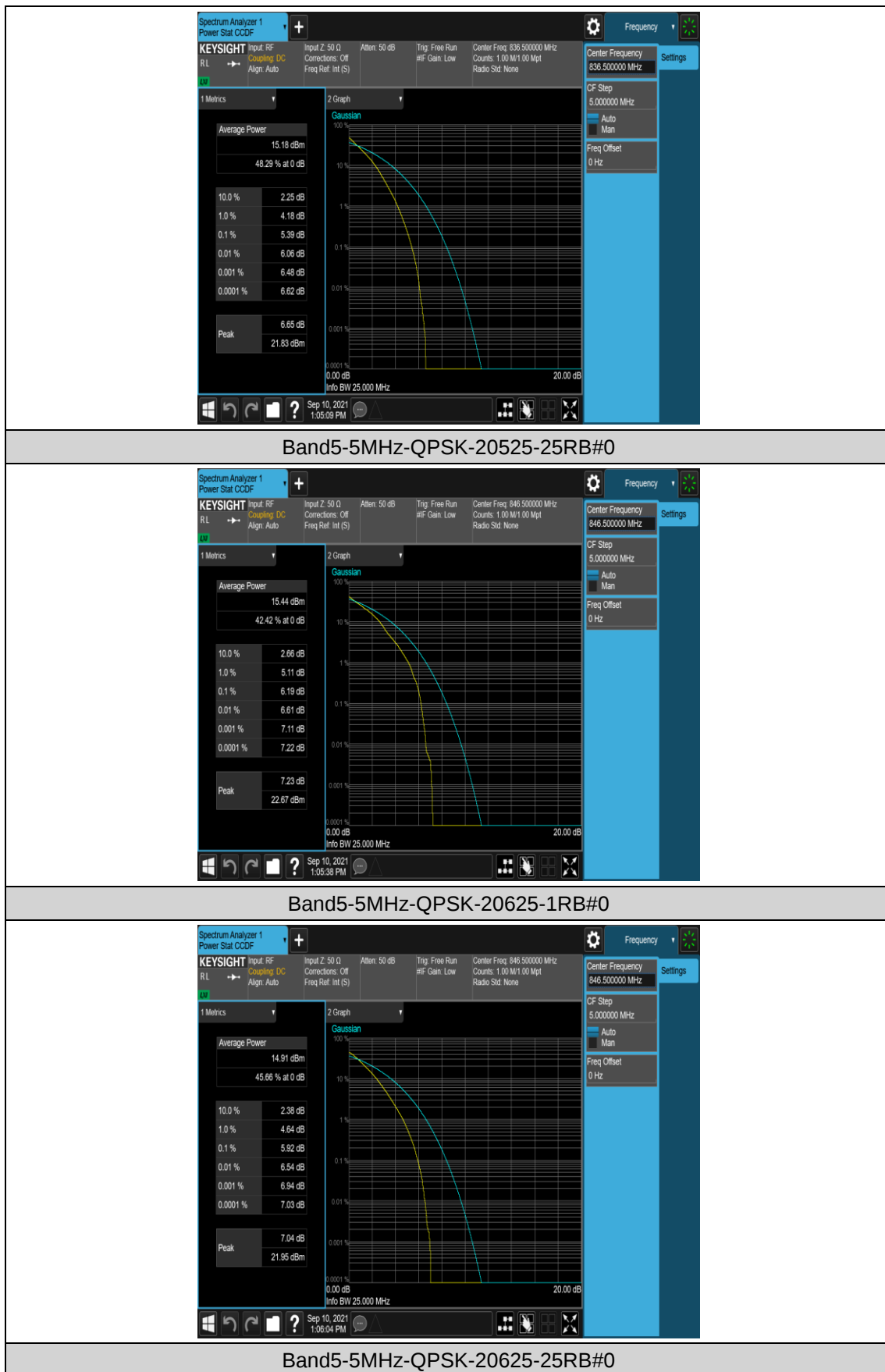


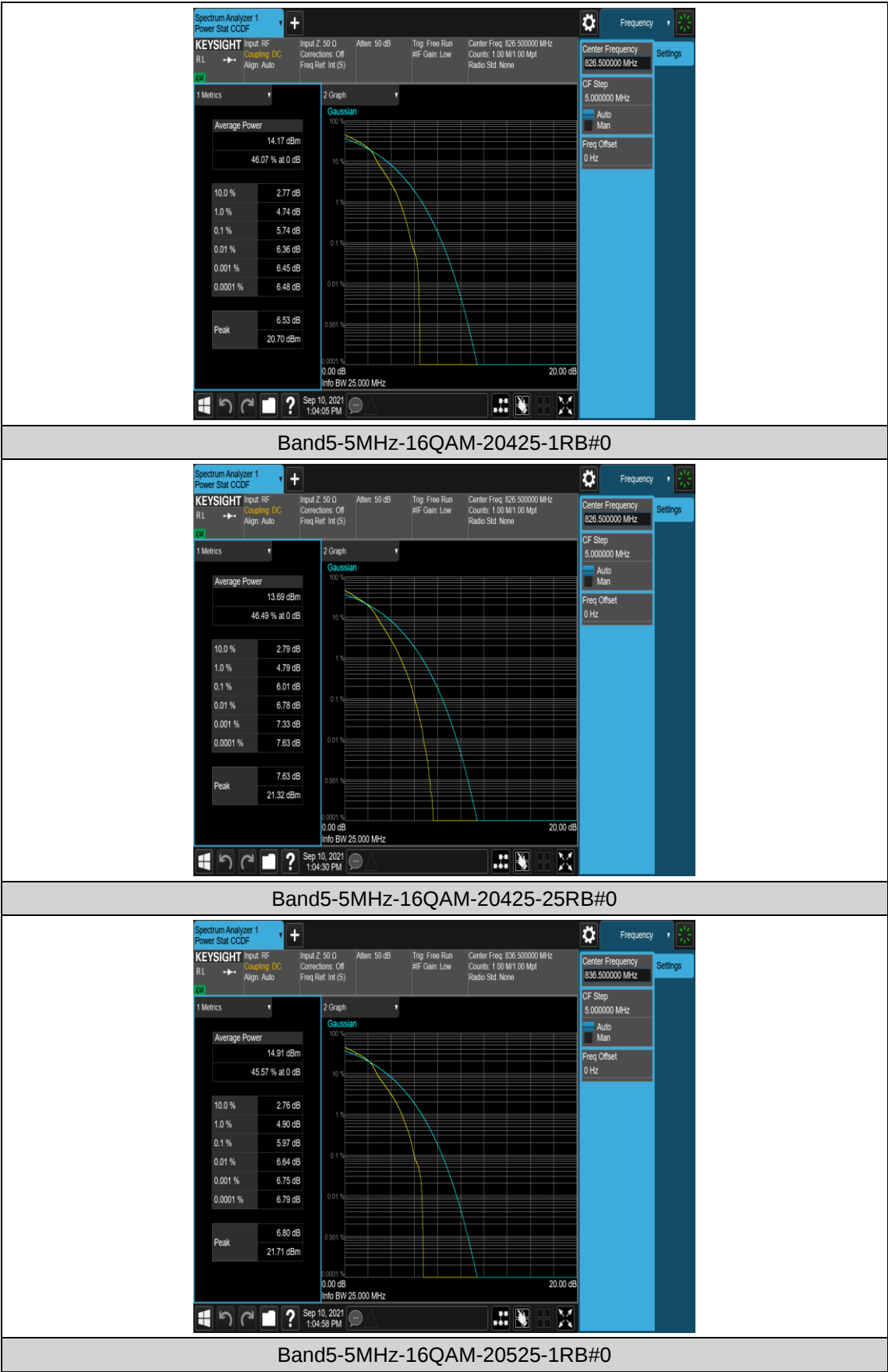


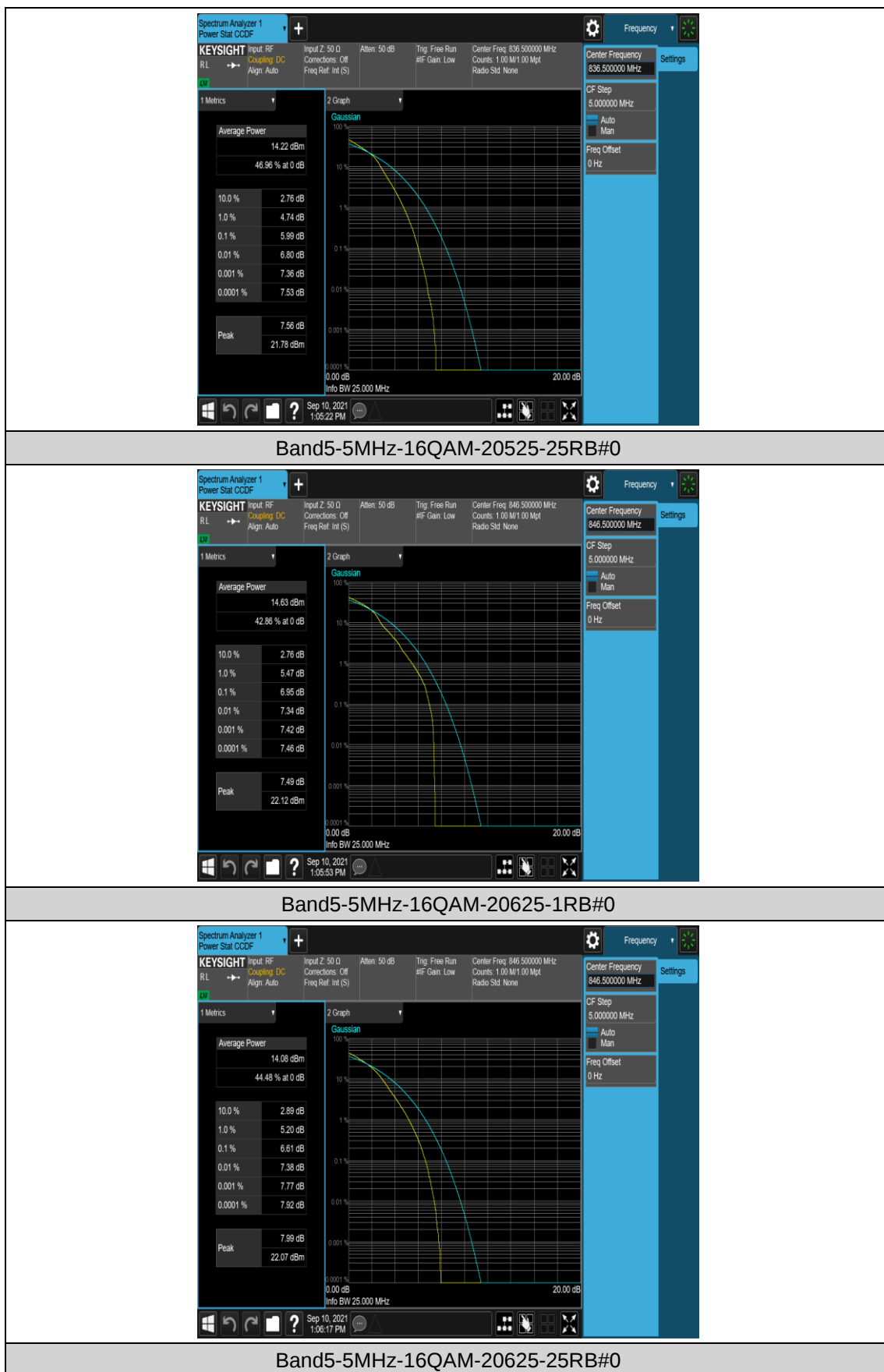


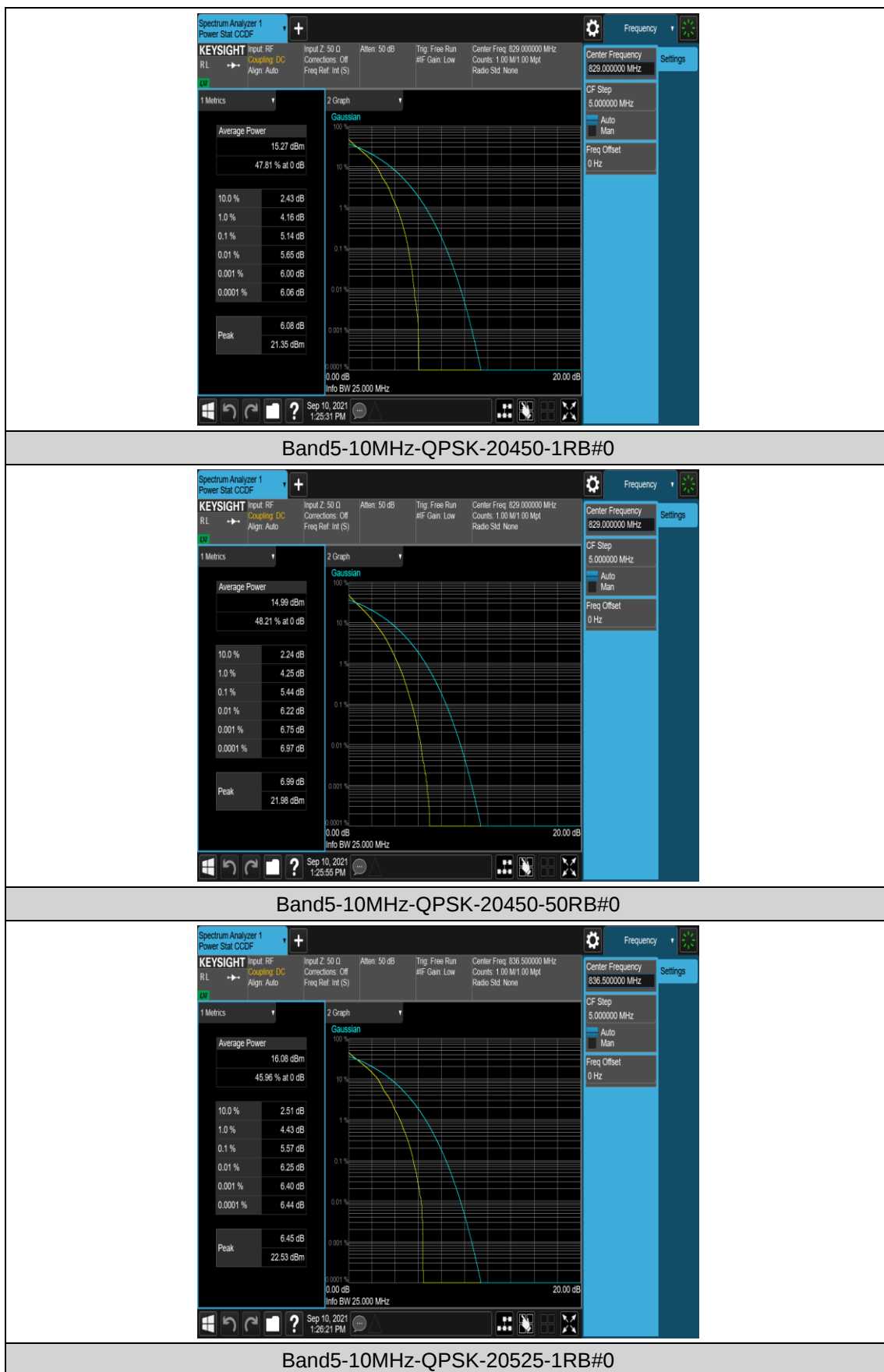


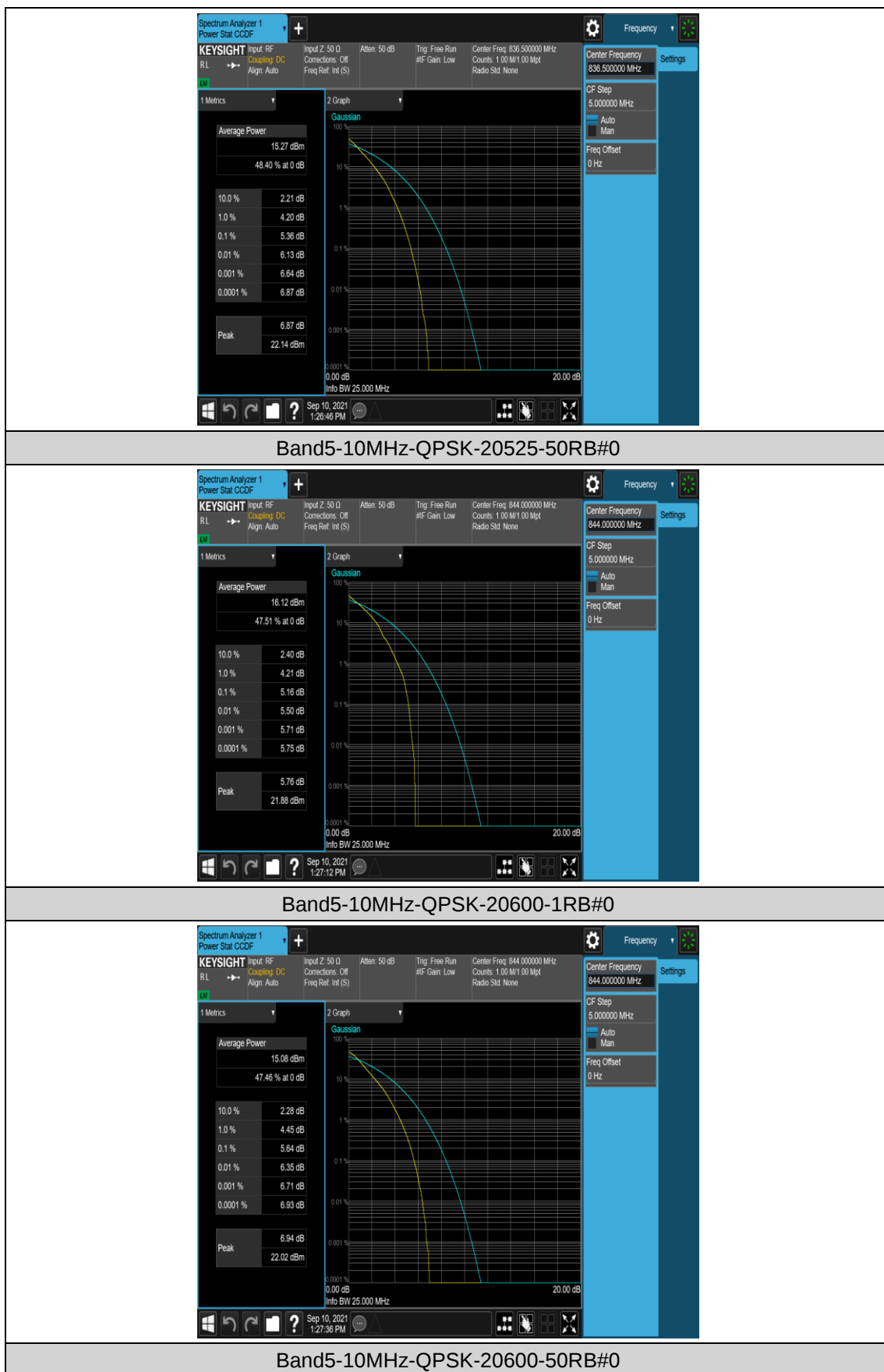


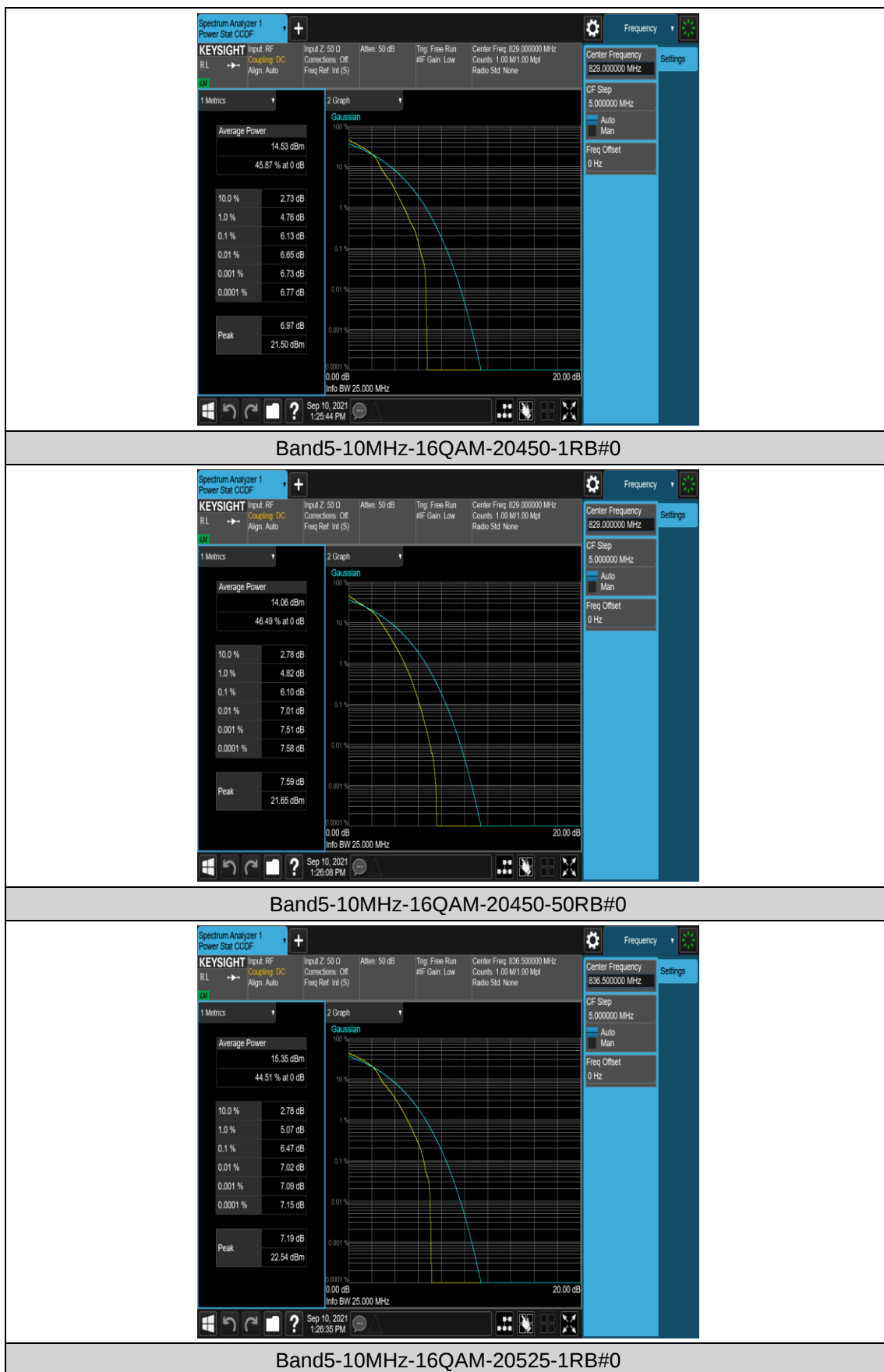


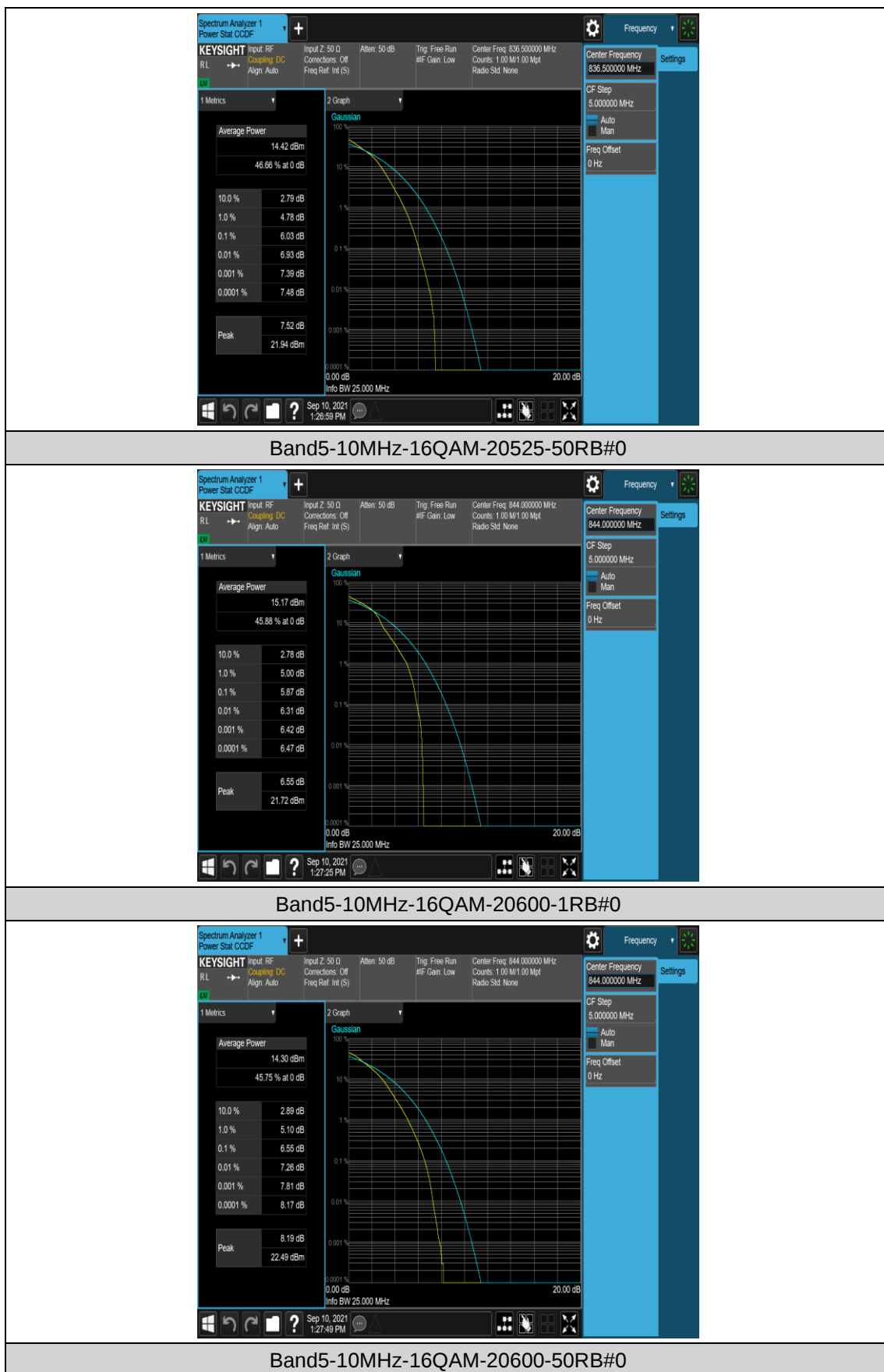










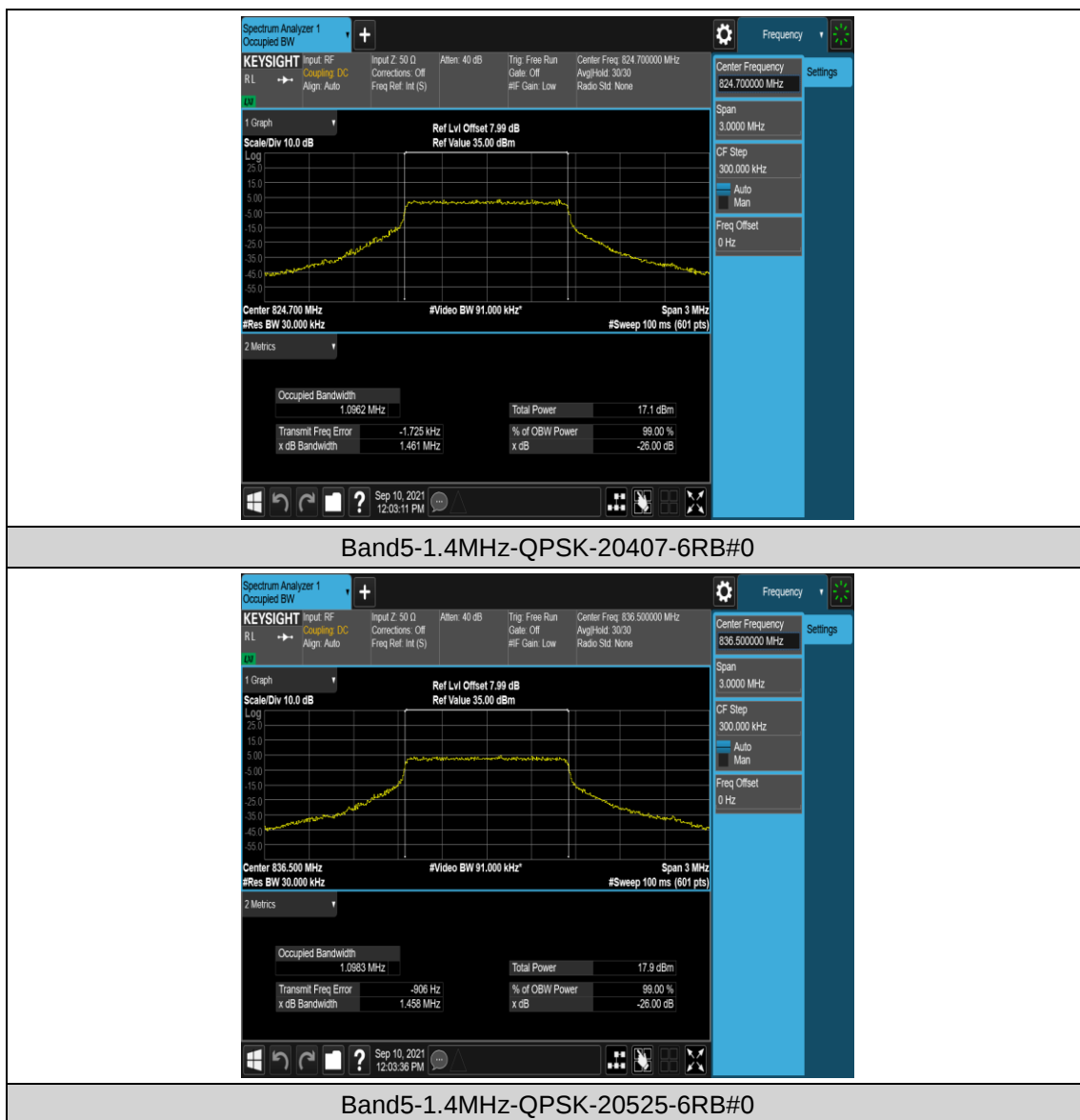


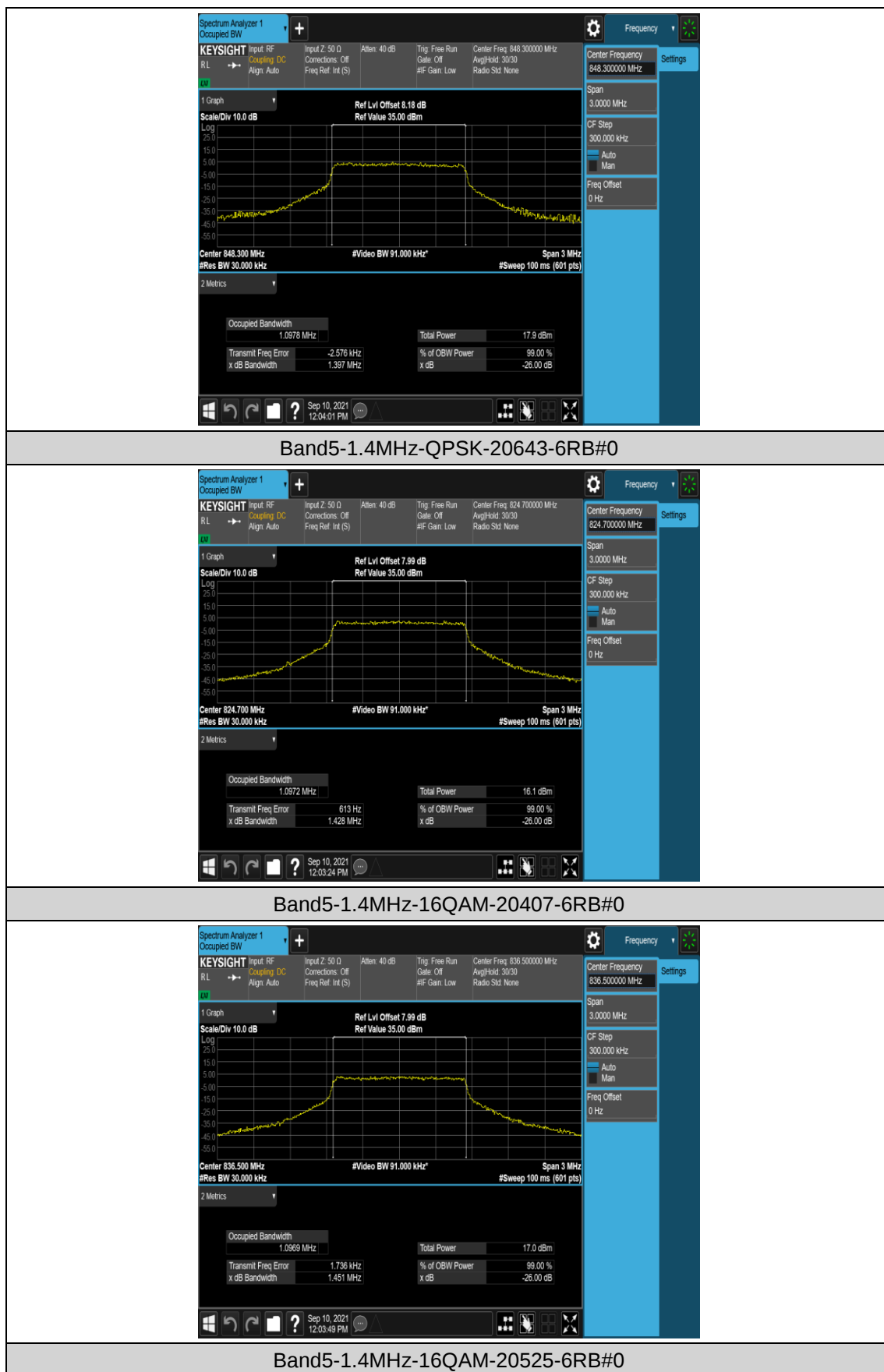
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

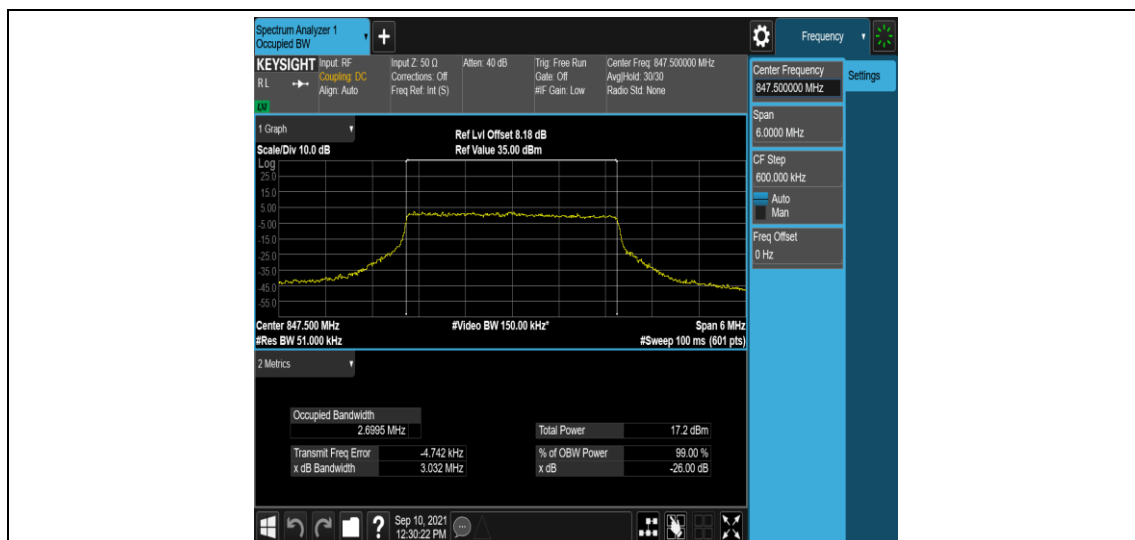
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0962	1.461	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0983	1.458	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0978	1.397	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0972	1.428	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0969	1.451	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0986	1.407	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7001	3.017	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7012	3.095	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6995	3.032	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6959	3.124	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6959	3.127	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6974	3.059	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5092	5.093	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5057	5.090	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4960	4.998	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5130	4.993	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5074	5.012	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4927	5.084	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.0003	9.602	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9736	9.591	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9508	9.504	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9817	9.607	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9595	9.521	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9533	9.532	PASS

Test Graphs

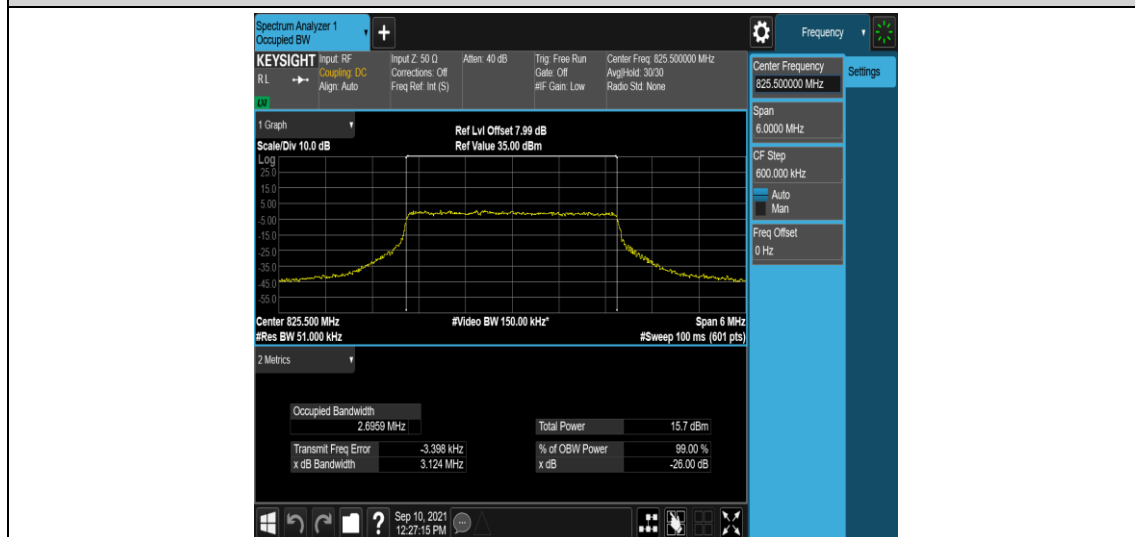




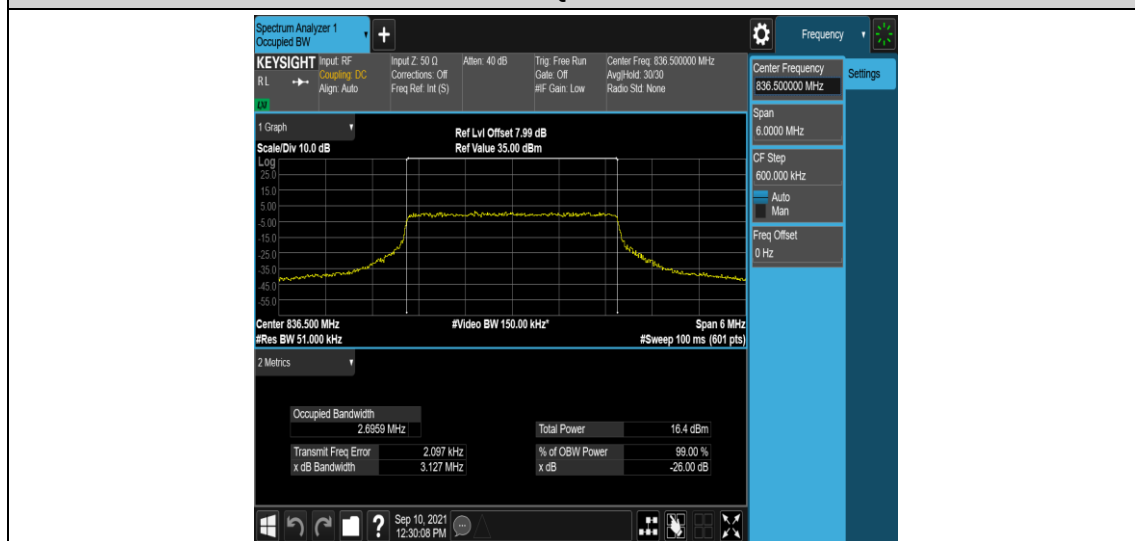




Band5-3MHz-QPSK-20635-15RB#0



Band5-3MHz-16QAM-20415-15RB#0



Band5-3MHz-16QAM-20525-15RB#0