

Appendix for Band 5

Product Name: 4G Power Socket

Model No: GSMSOCUS4G (EXA)

Appendix A: Average Power Output

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	21.64	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	21.33	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	21.23	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	21.51	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	21.56	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	21.41	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	20.33	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	21.60	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	21.84	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.59	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	21.58	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	21.55	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	21.69	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	20.63	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	21.88	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.88	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.87	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	21.76	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	21.73	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	21.89	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	20.98	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	20.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	20.51	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	20.37	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	20.59	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	20.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	20.86	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.51	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	20.50	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	20.82	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	20.59	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	20.58	PASS

Band5	1.4MHz	16QAM	20525	3RB#1	20.59	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	20.71	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.54	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	20.77	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	20.76	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	20.85	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	20.79	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	20.77	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.85	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.97	PASS
Band5	3MHz	QPSK	20415	1RB#0	21.37	PASS
Band5	3MHz	QPSK	20415	1RB#8	21.33	PASS
Band5	3MHz	QPSK	20415	1RB#14	21.28	PASS
Band5	3MHz	QPSK	20415	8RB#0	20.57	PASS
Band5	3MHz	QPSK	20415	8RB#4	20.54	PASS
Band5	3MHz	QPSK	20415	8RB#7	20.71	PASS
Band5	3MHz	QPSK	20415	15RB#0	20.70	PASS
Band5	3MHz	QPSK	20525	1RB#0	21.79	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.14	PASS
Band5	3MHz	QPSK	20525	1RB#14	21.87	PASS
Band5	3MHz	QPSK	20525	8RB#0	20.85	PASS
Band5	3MHz	QPSK	20525	8RB#4	20.90	PASS
Band5	3MHz	QPSK	20525	8RB#7	20.89	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.01	PASS
Band5	3MHz	QPSK	20635	1RB#0	21.70	PASS
Band5	3MHz	QPSK	20635	1RB#8	21.89	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.70	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.17	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.11	PASS
Band5	3MHz	QPSK	20635	8RB#7	20.90	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.18	PASS
Band5	3MHz	16QAM	20415	1RB#0	20.54	PASS
Band5	3MHz	16QAM	20415	1RB#8	20.50	PASS
Band5	3MHz	16QAM	20415	1RB#14	20.50	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.79	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.70	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.84	PASS

Band5	3MHz	16QAM	20415	15RB#0	20.65	PASS
Band5	3MHz	16QAM	20525	1RB#0	20.65	PASS
Band5	3MHz	16QAM	20525	1RB#8	20.70	PASS
Band5	3MHz	16QAM	20525	1RB#14	20.69	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.08	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.94	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.51	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.84	PASS
Band5	3MHz	16QAM	20635	1RB#0	20.78	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.05	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.04	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.46	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.51	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.61	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	21.46	PASS
Band5	5MHz	QPSK	20425	1RB#12	21.39	PASS
Band5	5MHz	QPSK	20425	1RB#24	21.40	PASS
Band5	5MHz	QPSK	20425	12RB#0	20.54	PASS
Band5	5MHz	QPSK	20425	12RB#6	20.53	PASS
Band5	5MHz	QPSK	20425	12RB#13	20.67	PASS
Band5	5MHz	QPSK	20425	25RB#0	20.44	PASS
Band5	5MHz	QPSK	20525	1RB#0	21.43	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.00	PASS
Band5	5MHz	QPSK	20525	1RB#24	21.78	PASS
Band5	5MHz	QPSK	20525	12RB#0	20.78	PASS
Band5	5MHz	QPSK	20525	12RB#6	20.73	PASS
Band5	5MHz	QPSK	20525	12RB#13	20.88	PASS
Band5	5MHz	QPSK	20525	25RB#0	20.79	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.89	PASS
Band5	5MHz	QPSK	20625	1RB#12	21.96	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.08	PASS
Band5	5MHz	QPSK	20625	12RB#0	20.98	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.01	PASS
Band5	5MHz	QPSK	20625	12RB#13	20.85	PASS
Band5	5MHz	QPSK	20625	25RB#0	20.95	PASS
Band5	5MHz	16QAM	20425	1RB#0	20.64	PASS

Band5	5MHz	16QAM	20425	1RB#12	20.95	PASS
Band5	5MHz	16QAM	20425	1RB#24	20.44	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.59	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.71	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.63	PASS
Band5	5MHz	16QAM	20525	1RB#0	20.76	PASS
Band5	5MHz	16QAM	20525	1RB#12	20.74	PASS
Band5	5MHz	16QAM	20525	1RB#24	20.70	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.89	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.55	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.69	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.89	PASS
Band5	5MHz	16QAM	20625	1RB#0	20.88	PASS
Band5	5MHz	16QAM	20625	1RB#12	20.89	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.11	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.97	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.93	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.81	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.53	PASS
Band5	10MHz	QPSK	20450	1RB#0	21.55	PASS
Band5	10MHz	QPSK	20450	1RB#24	21.47	PASS
Band5	10MHz	QPSK	20450	1RB#49	21.59	PASS
Band5	10MHz	QPSK	20450	25RB#0	20.51	PASS
Band5	10MHz	QPSK	20450	25RB#12	20.56	PASS
Band5	10MHz	QPSK	20450	25RB#25	20.72	PASS
Band5	10MHz	QPSK	20450	50RB#0	20.56	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.02	PASS
Band5	10MHz	QPSK	20525	1RB#24	21.81	PASS
Band5	10MHz	QPSK	20525	1RB#49	21.50	PASS
Band5	10MHz	QPSK	20525	25RB#0	20.77	PASS
Band5	10MHz	QPSK	20525	25RB#12	20.66	PASS
Band5	10MHz	QPSK	20525	25RB#25	20.81	PASS
Band5	10MHz	QPSK	20525	50RB#0	20.80	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.85	PASS
Band5	10MHz	QPSK	20600	1RB#24	21.69	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.77	PASS

Band5	10MHz	QPSK	20600	25RB#0	20.88	PASS
Band5	10MHz	QPSK	20600	25RB#12	20.91	PASS
Band5	10MHz	QPSK	20600	25RB#25	20.85	PASS
Band5	10MHz	QPSK	20600	50RB#0	20.79	PASS
Band5	10MHz	16QAM	20450	1RB#0	20.43	PASS
Band5	10MHz	16QAM	20450	1RB#24	20.51	PASS
Band5	10MHz	16QAM	20450	1RB#49	20.63	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.53	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.52	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.73	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.69	PASS
Band5	10MHz	16QAM	20525	1RB#0	20.99	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.25	PASS
Band5	10MHz	16QAM	20525	1RB#49	20.70	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.88	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.84	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.91	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.75	PASS
Band5	10MHz	16QAM	20600	1RB#0	20.90	PASS
Band5	10MHz	16QAM	20600	1RB#24	20.90	PASS
Band5	10MHz	16QAM	20600	1RB#49	20.77	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.92	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.94	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.78	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.77	PASS

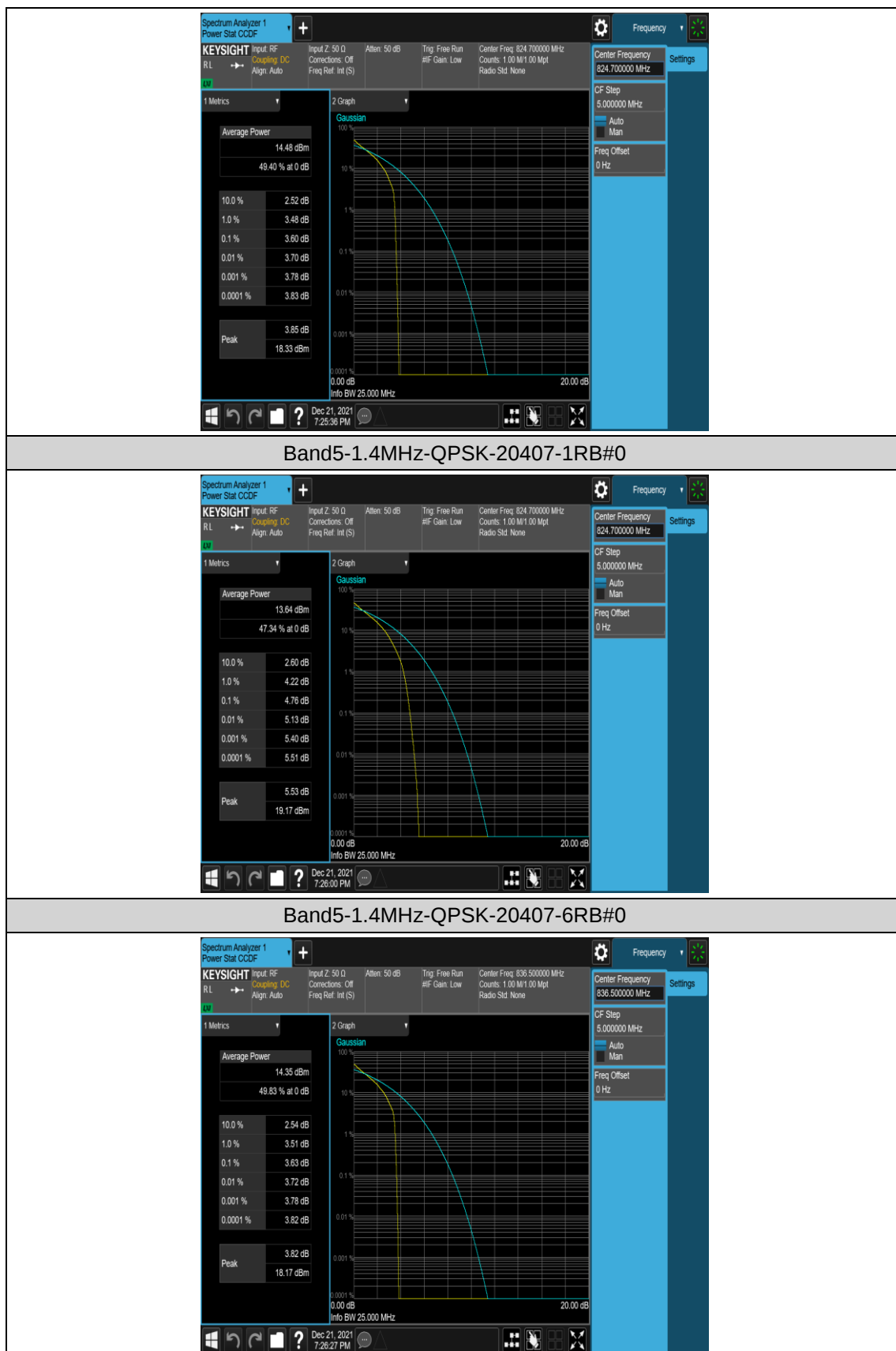
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

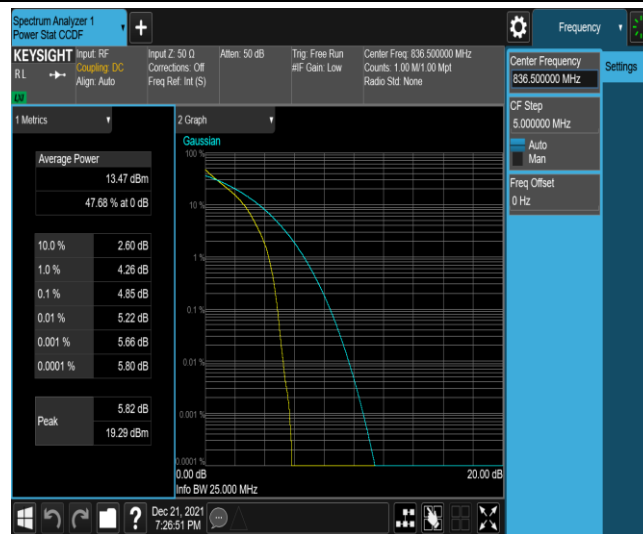
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	3.60	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	4.76	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3.63	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.85	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.62	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.87	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	4.66	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.65	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	4.69	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.73	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	4.66	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.72	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	3.70	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	4.98	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	3.69	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.03	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.70	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.05	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	4.58	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.84	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	4.55	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.88	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.71	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.88	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	3.65	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.02	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	3.67	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.00	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	3.67	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.14	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	4.62	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.85	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	4.56	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.84	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.48	13	PASS

Band5	5MHz	16QAM	20625	25RB#0	5.95	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	3.57	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.28	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	3.62	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.91	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	3.63	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.35	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	4.51	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.03	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	4.50	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.81	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.69	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.06	13	PASS

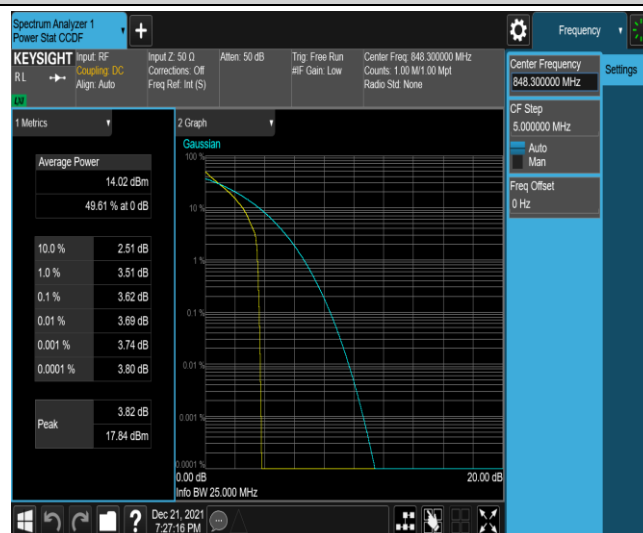
Test Graphs



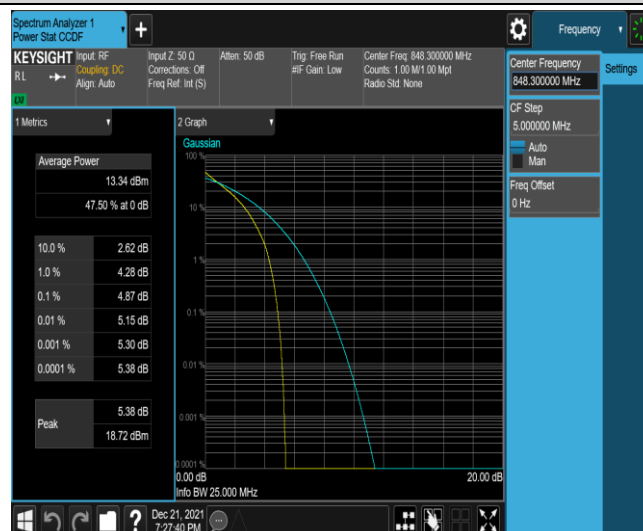
Band5-1.4MHz-QPSK-20525-1RB#0



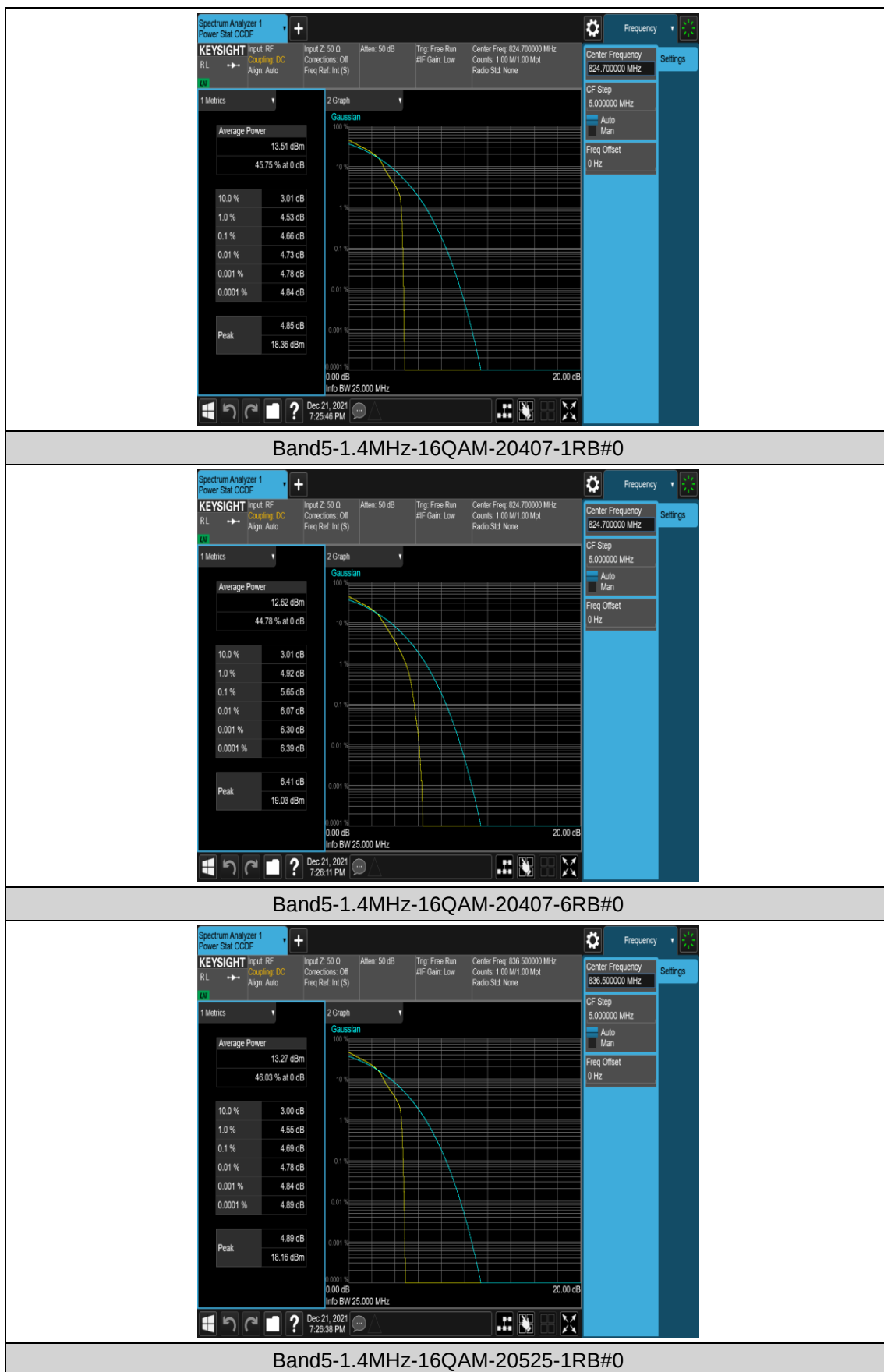
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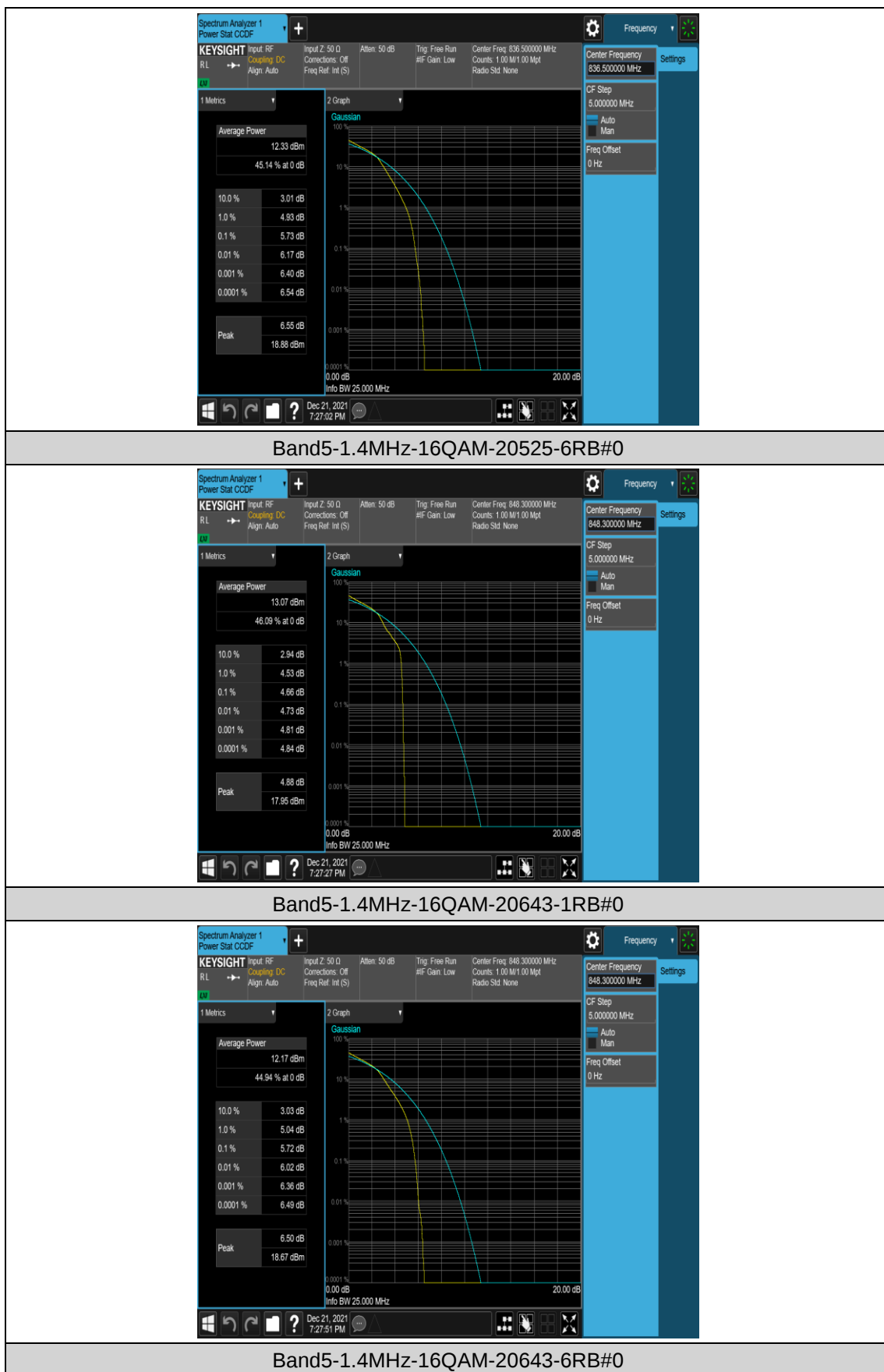


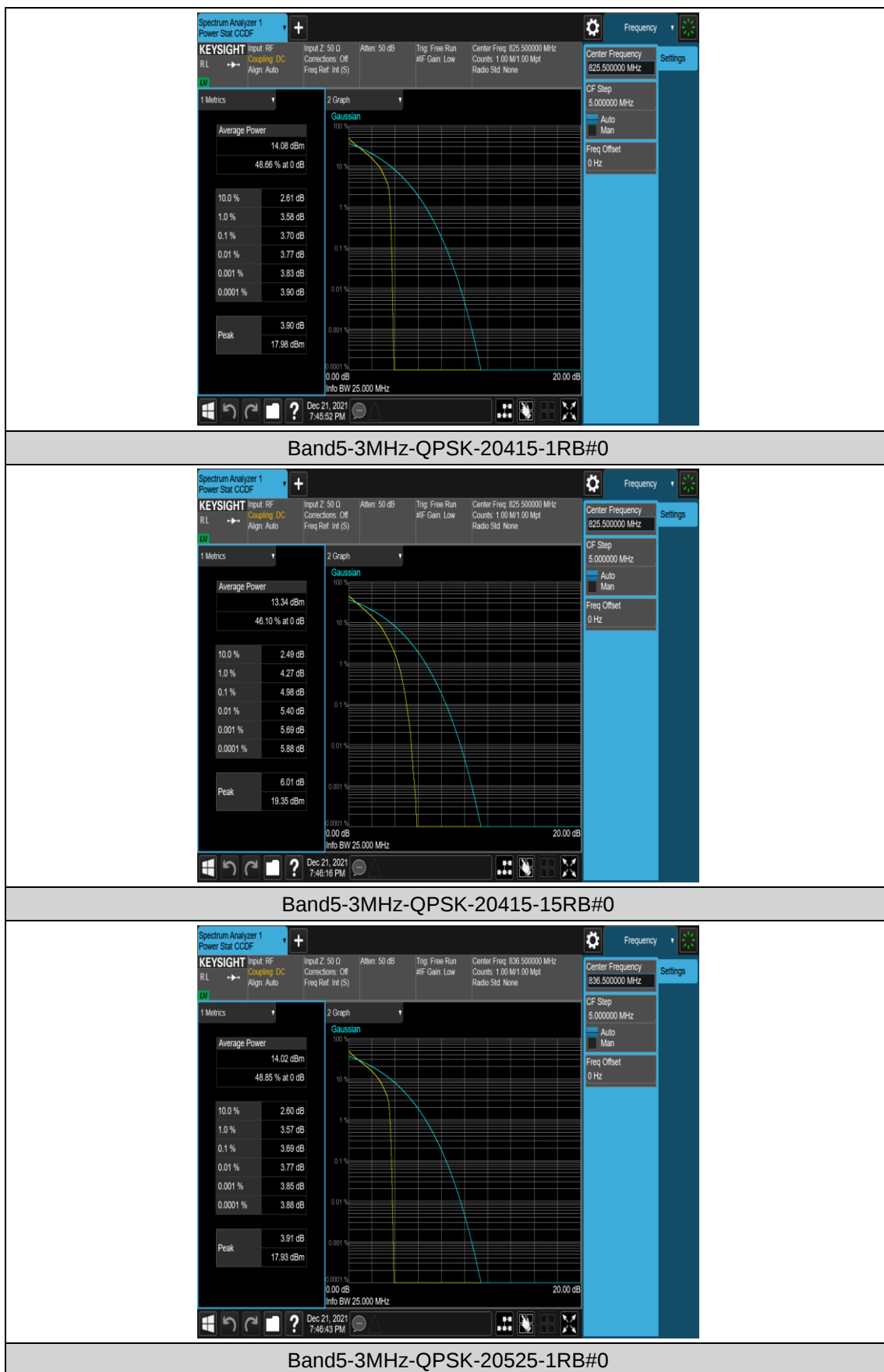
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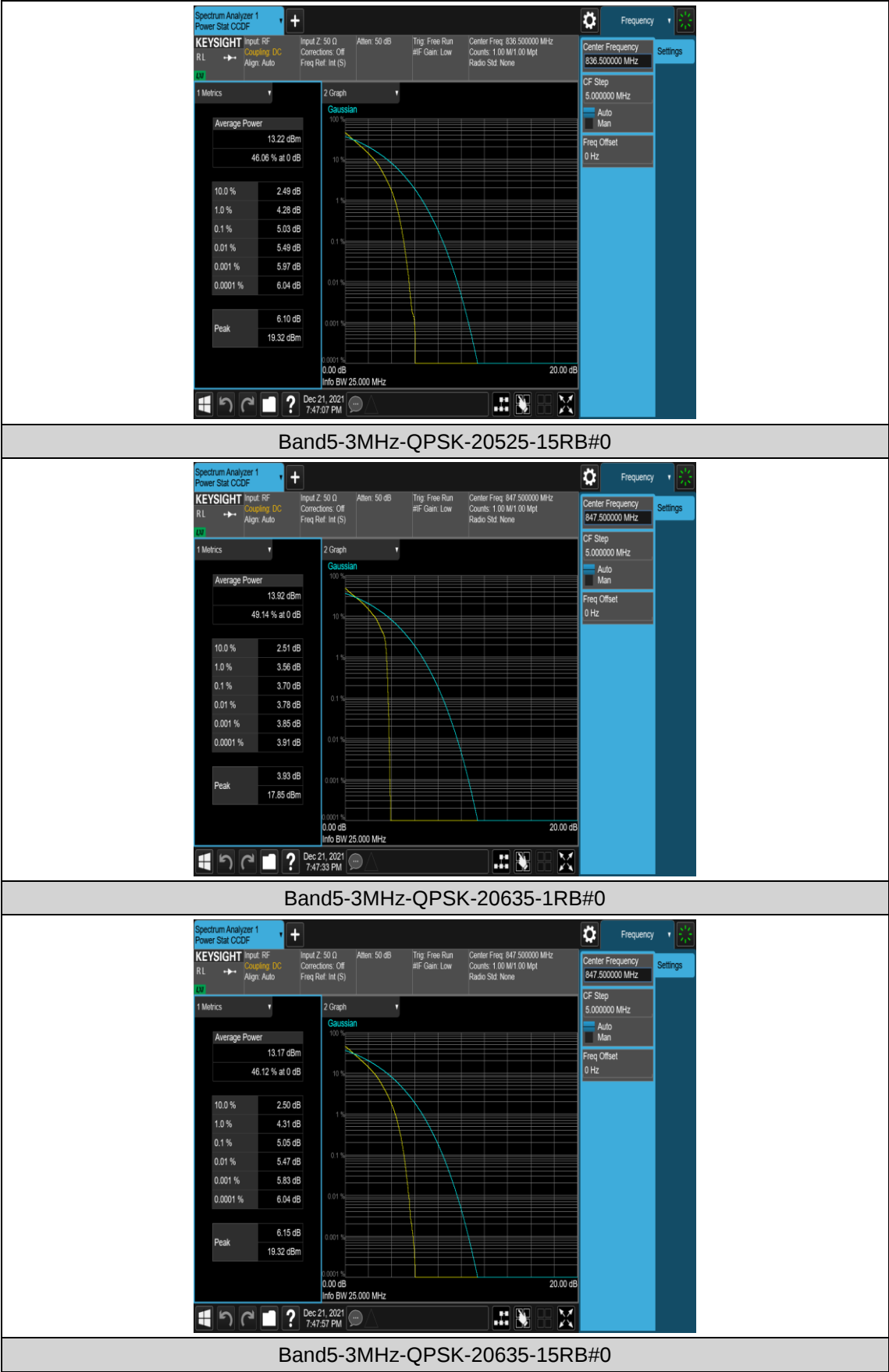


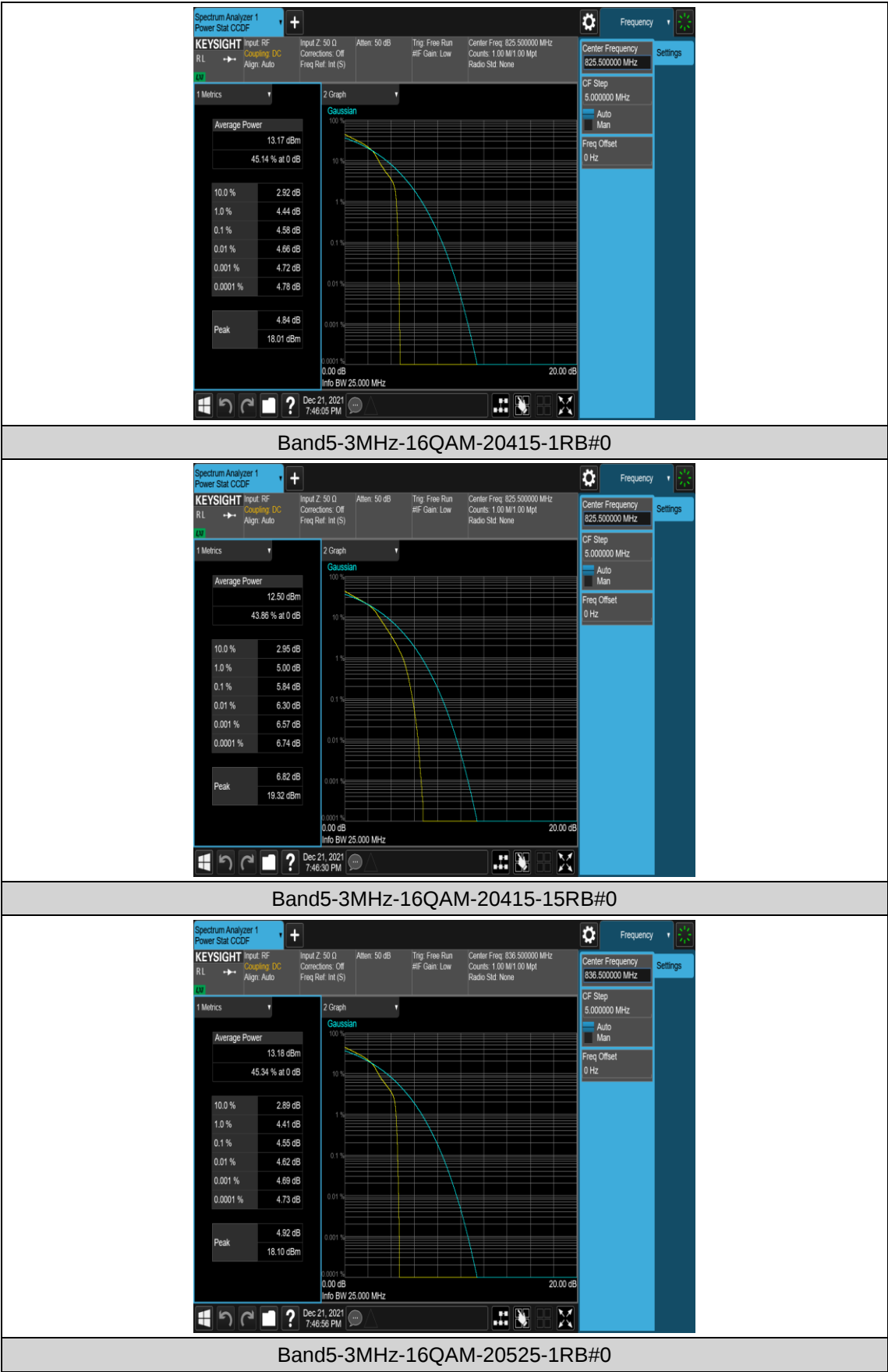
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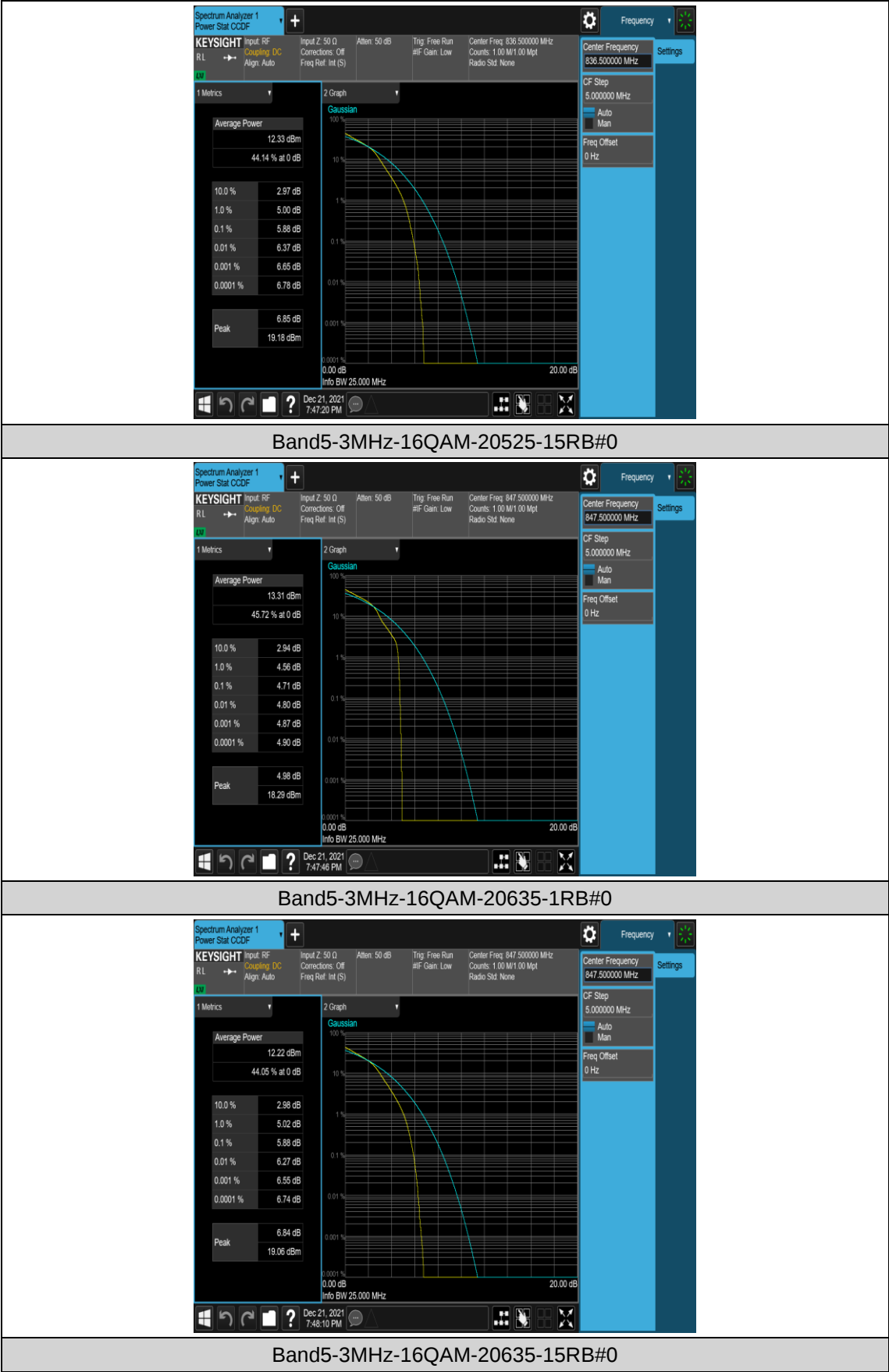


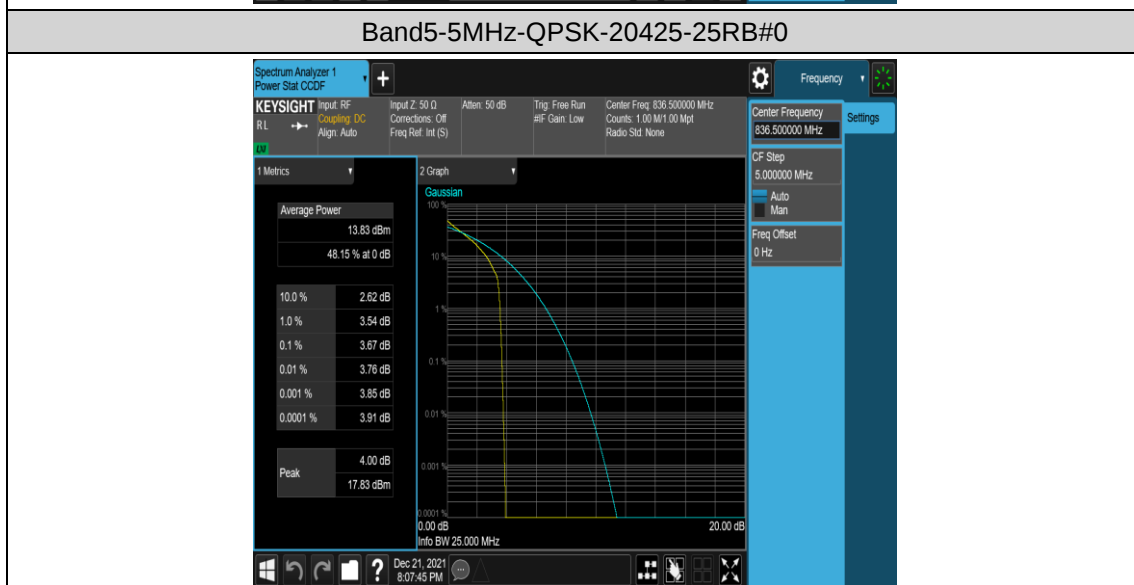
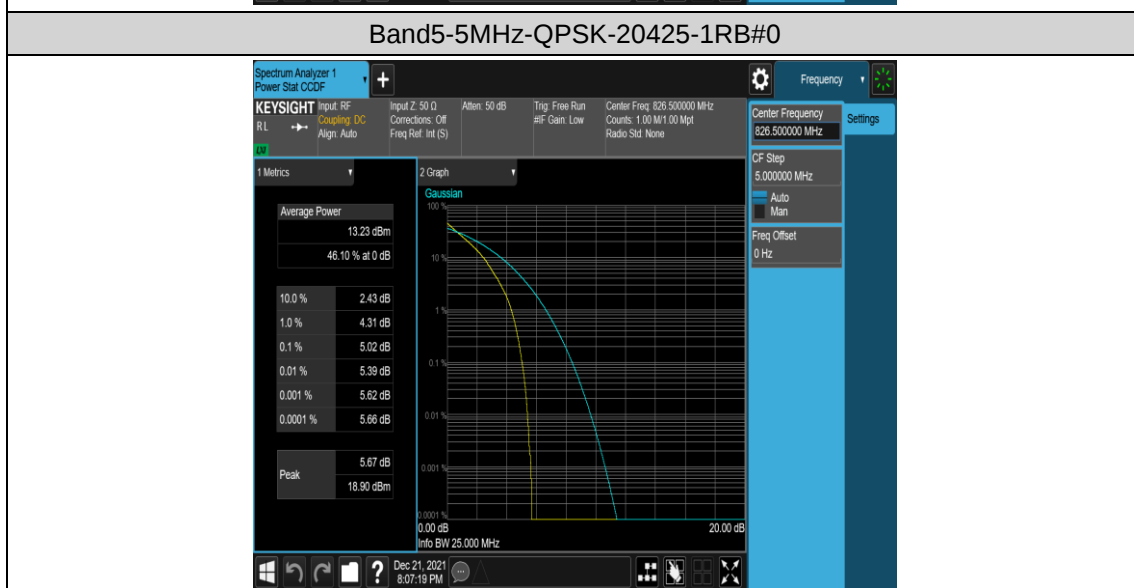
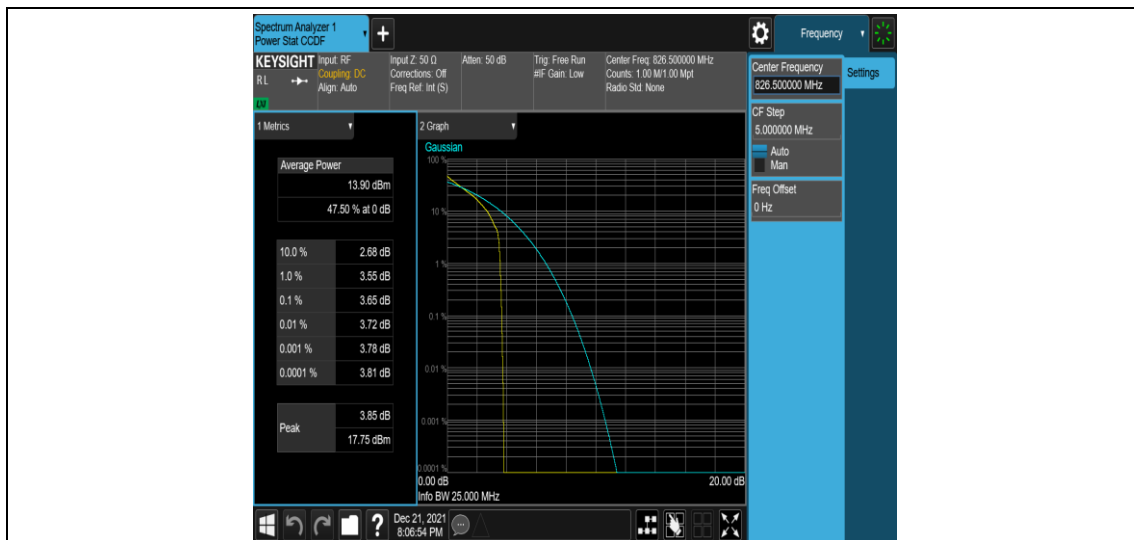


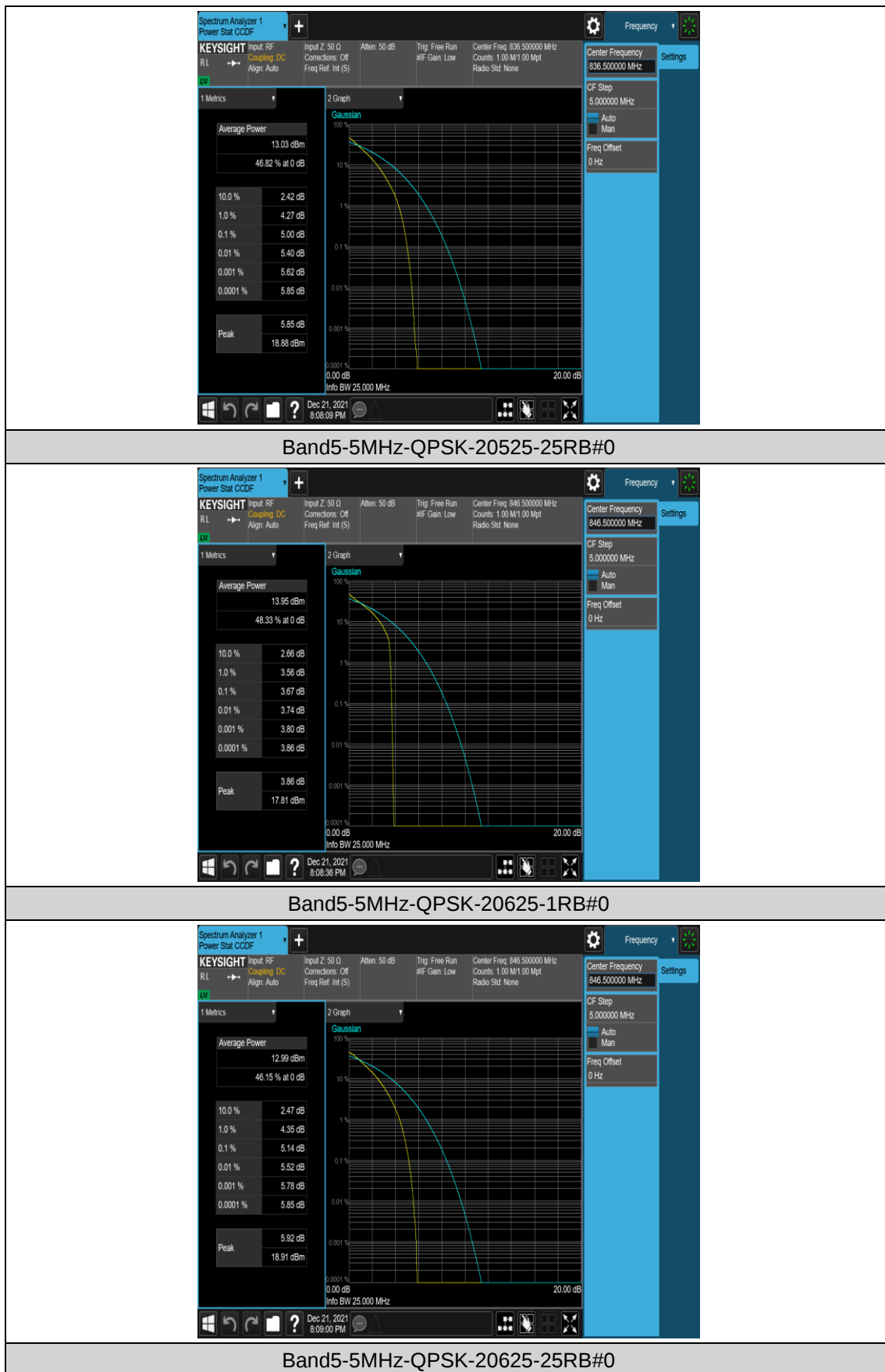


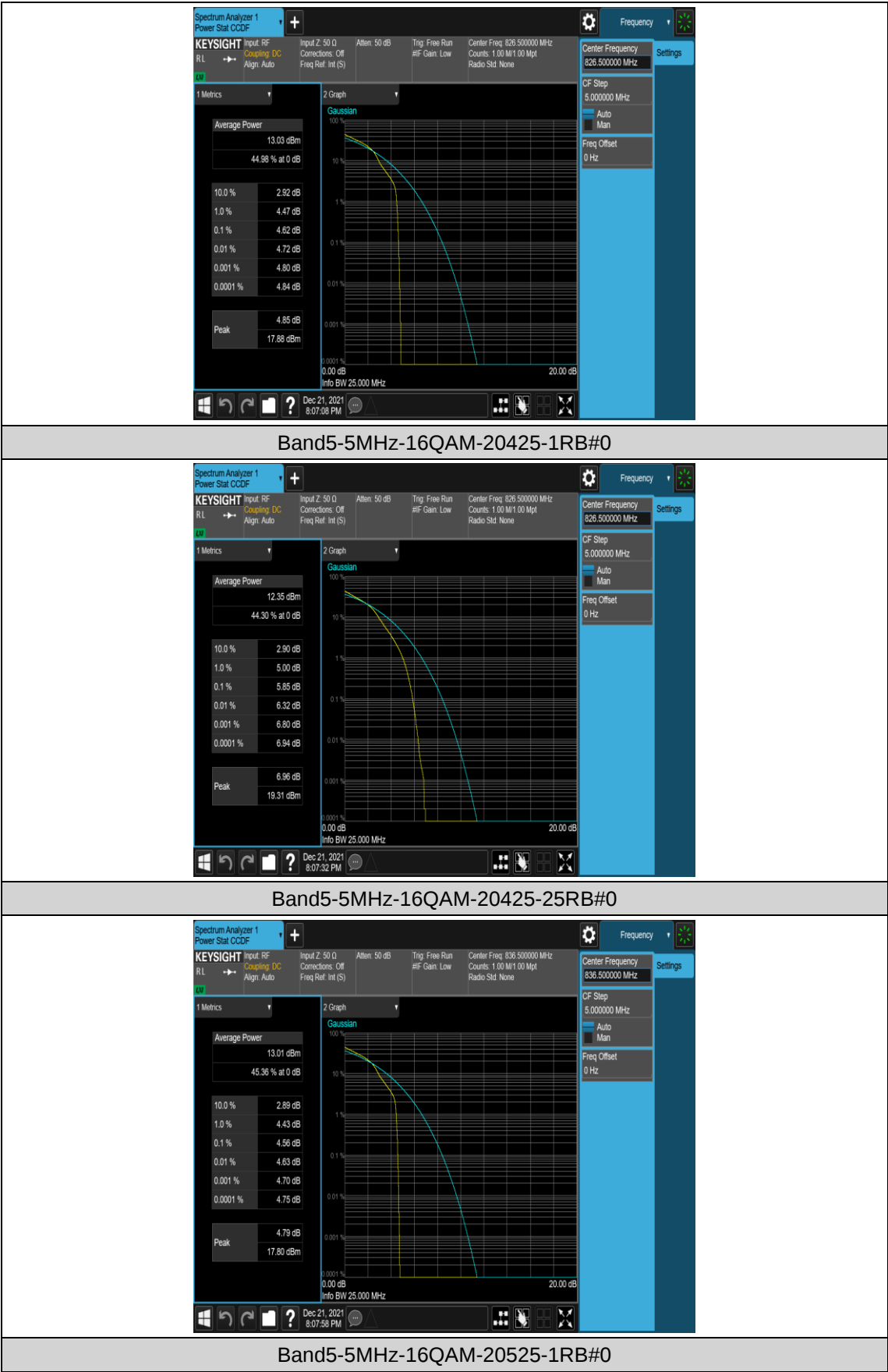


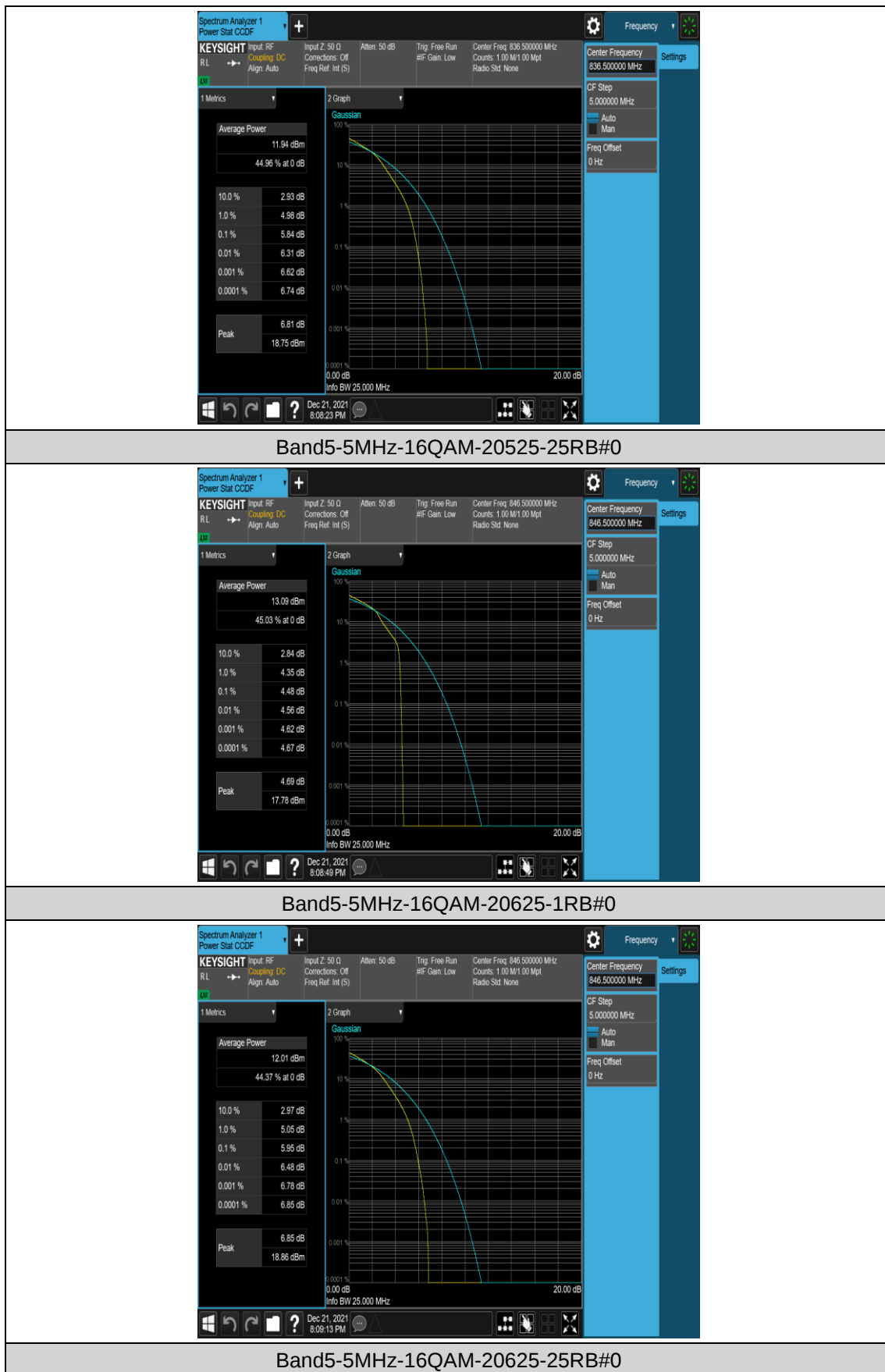


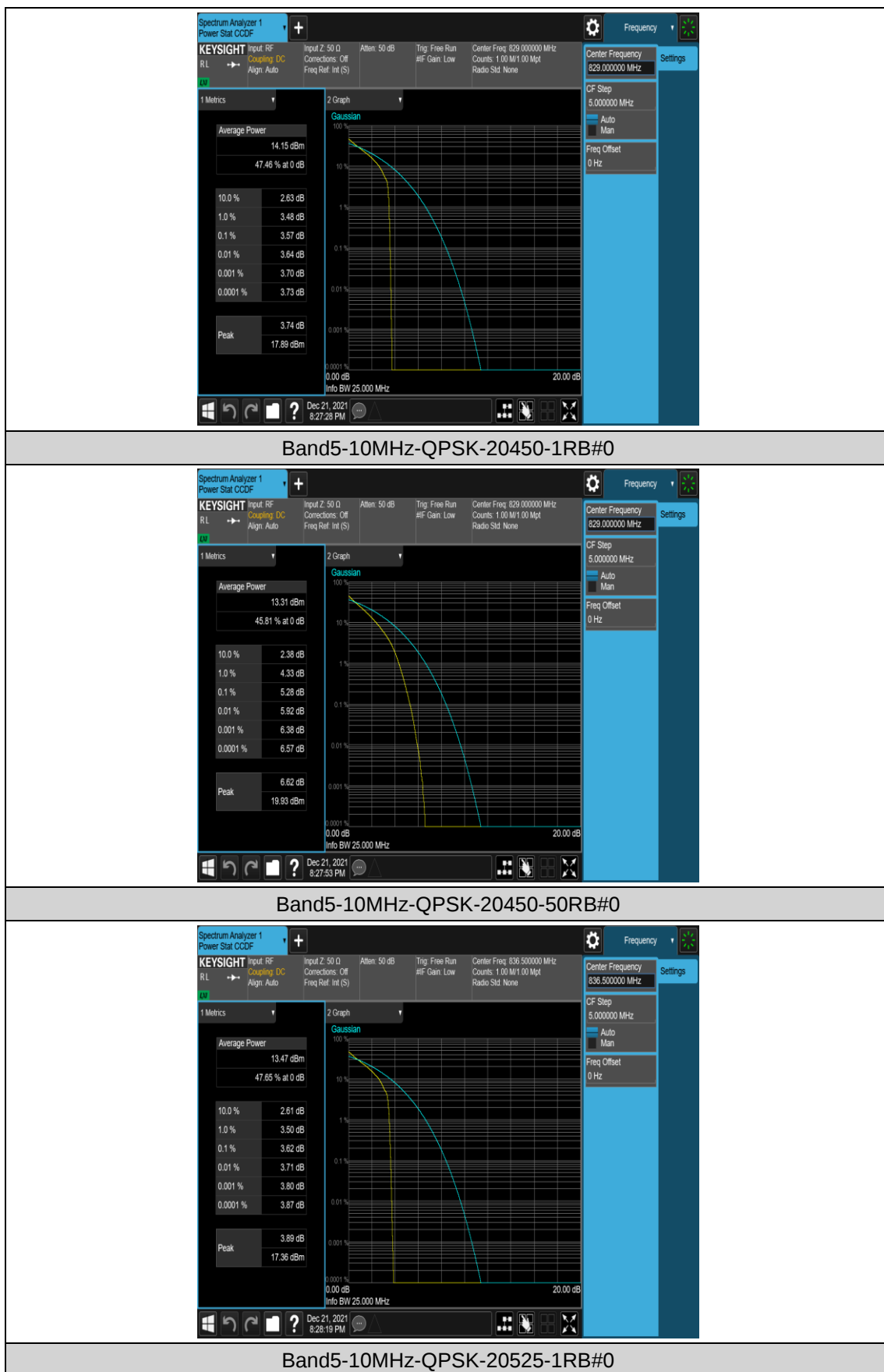


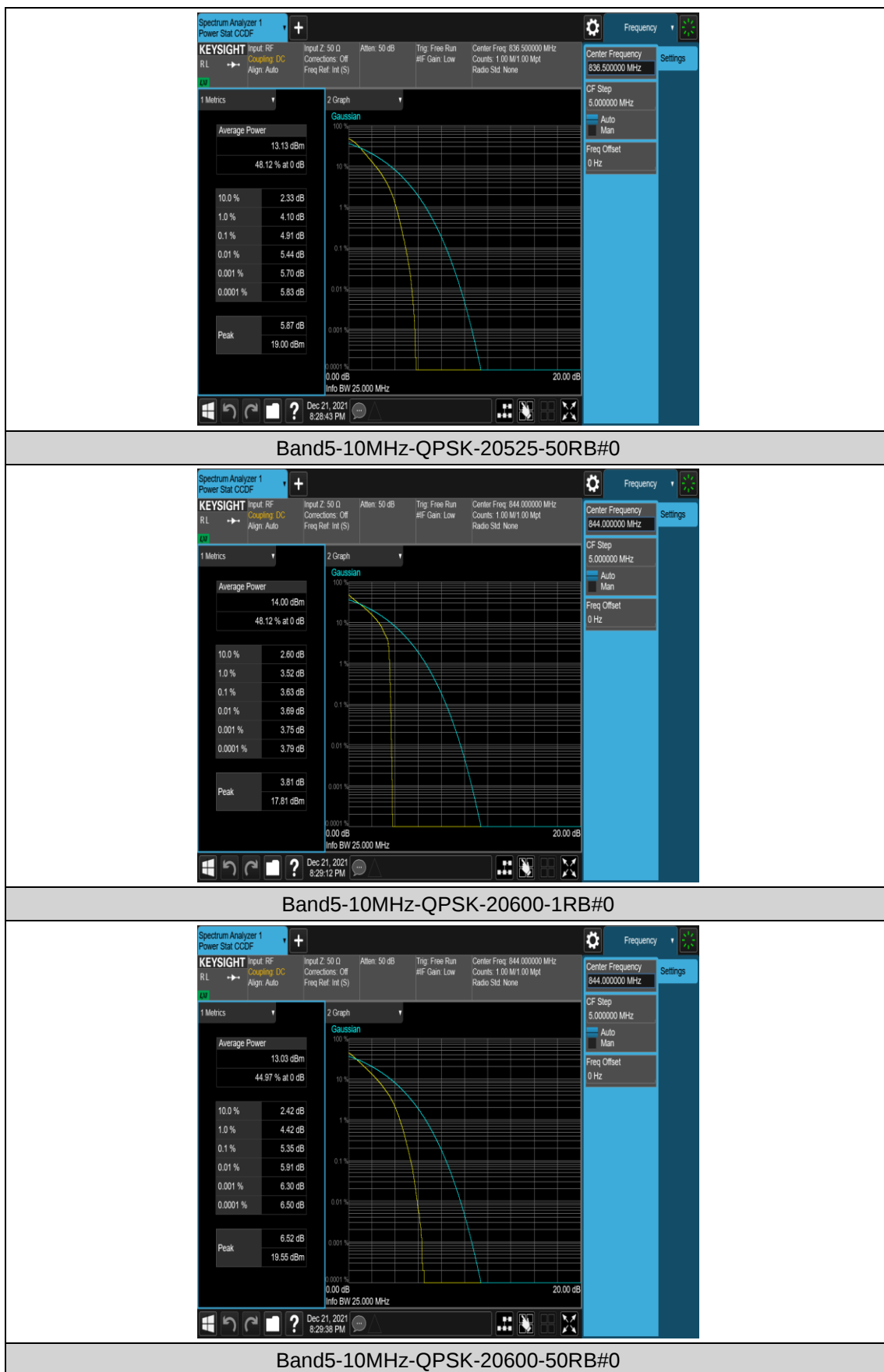














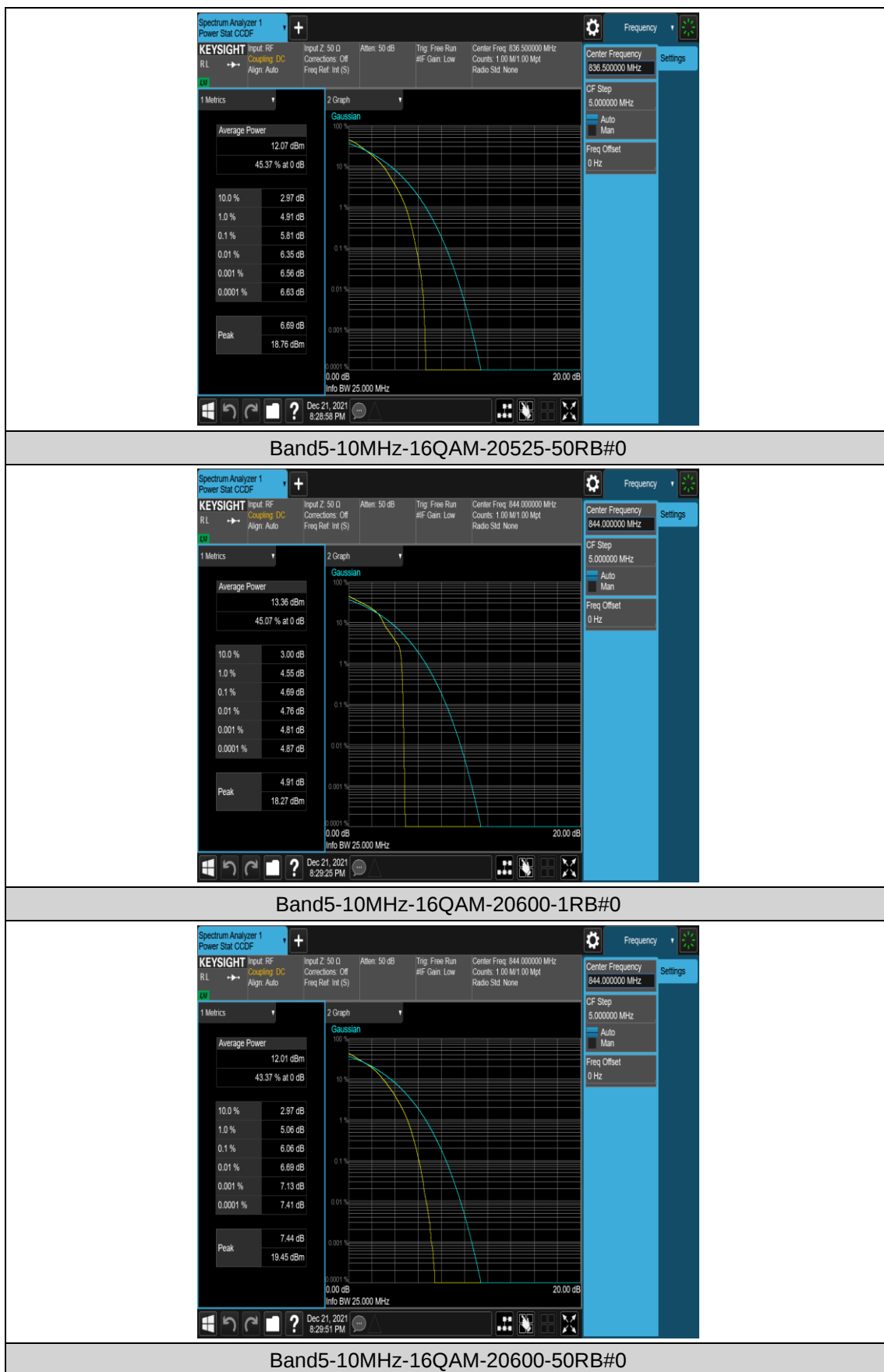
Band5-10MHz-16QAM-20450-1RB#0



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Band5-10MHz-16QAM-20525-1RB#0

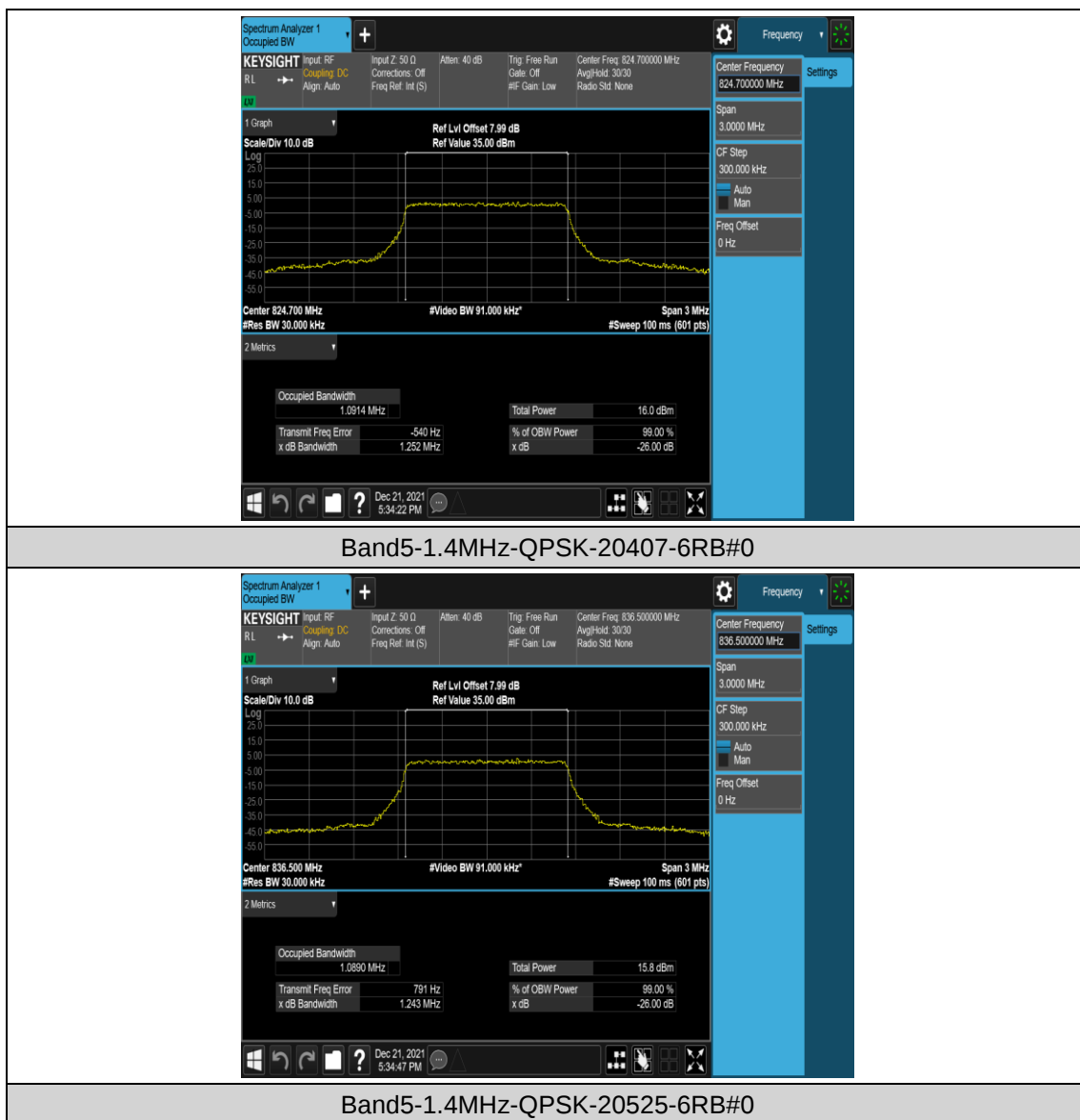


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

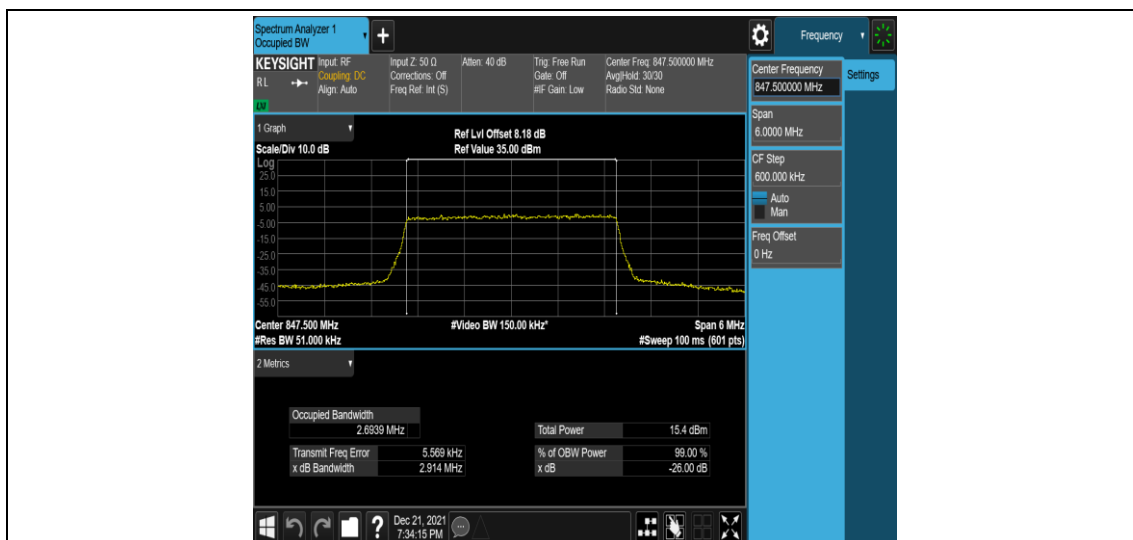
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0914	1.252	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0890	1.243	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0914	1.255	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0889	1.264	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0883	1.259	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0902	1.261	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6969	2.900	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6881	2.911	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6939	2.914	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6927	2.913	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6894	2.909	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6888	2.908	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5012	4.915	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4916	4.880	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4989	4.869	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5089	4.856	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4965	4.839	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5019	4.870	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9881	9.598	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9127	9.497	PASS
Band5	10MHz	QPSK	20600	50RB#0	9.0076	9.566	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9938	9.598	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9033	9.500	PASS
Band5	10MHz	16QAM	20600	50RB#0	9.0120	9.565	PASS

Test Graphs

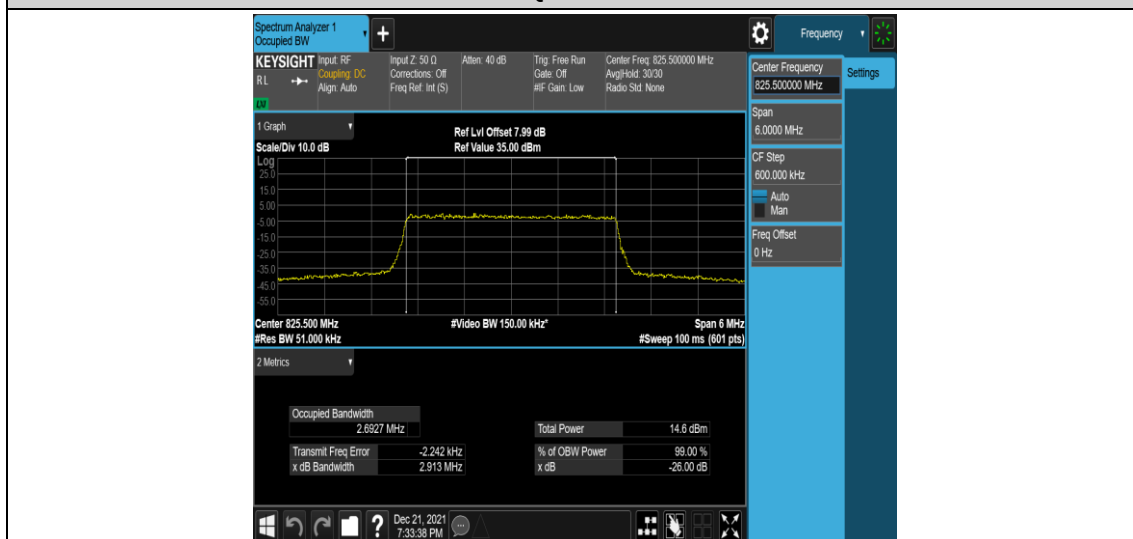




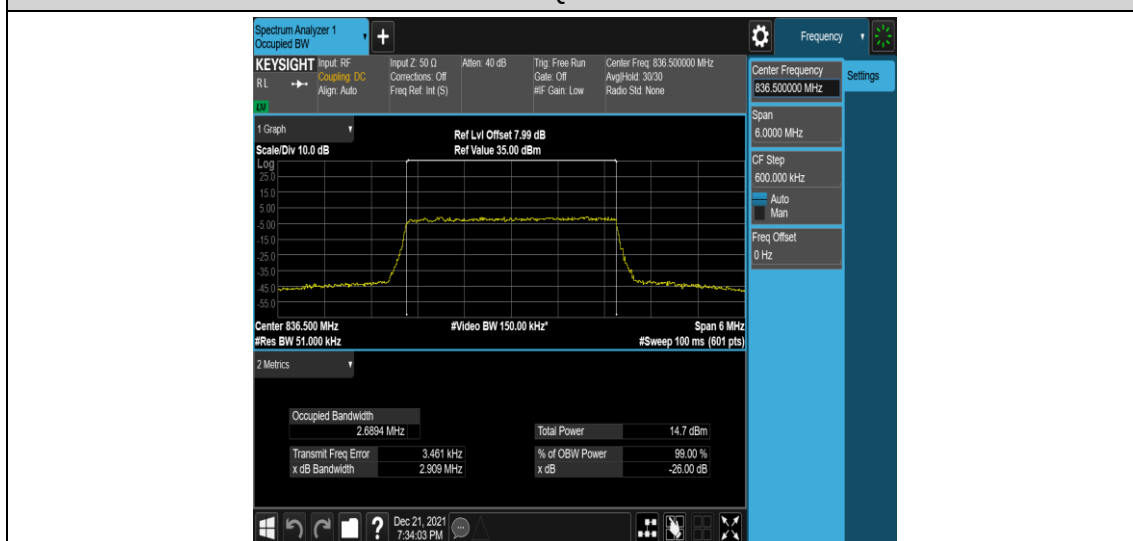




Band5-3MHz-QPSK-20635-15RB#0



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



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