

Appendix for Band 41

Product Name: Rugged Phone
Model No: MDT661

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	40265	1RB#0	22.34	PASS
Band41	5MHz	QPSK	40265	1RB#12	22.44	PASS
Band41	5MHz	QPSK	40265	1RB#24	22.32	PASS
Band41	5MHz	QPSK	40265	12RB#0	21.40	PASS
Band41	5MHz	QPSK	40265	12RB#6	21.39	PASS
Band41	5MHz	QPSK	40265	12RB#13	21.36	PASS
Band41	5MHz	QPSK	40265	25RB#0	21.36	PASS
Band41	5MHz	QPSK	40740	1RB#0	22.44	PASS
Band41	5MHz	QPSK	40740	1RB#12	22.59	PASS
Band41	5MHz	QPSK	40740	1RB#24	22.46	PASS
Band41	5MHz	QPSK	40740	12RB#0	21.59	PASS
Band41	5MHz	QPSK	40740	12RB#6	21.57	PASS
Band41	5MHz	QPSK	40740	12RB#13	21.55	PASS
Band41	5MHz	QPSK	40740	25RB#0	21.51	PASS
Band41	5MHz	QPSK	41215	1RB#0	22.95	PASS
Band41	5MHz	QPSK	41215	1RB#12	23.08	PASS
Band41	5MHz	QPSK	41215	1RB#24	23.01	PASS
Band41	5MHz	QPSK	41215	12RB#0	21.99	PASS
Band41	5MHz	QPSK	41215	12RB#6	21.96	PASS
Band41	5MHz	QPSK	41215	12RB#13	21.95	PASS
Band41	5MHz	QPSK	41215	25RB#0	21.99	PASS
Band41	5MHz	16QAM	40265	1RB#0	21.32	PASS
Band41	5MHz	16QAM	40265	1RB#12	21.39	PASS
Band41	5MHz	16QAM	40265	1RB#24	21.23	PASS
Band41	5MHz	16QAM	40265	12RB#0	20.43	PASS
Band41	5MHz	16QAM	40265	12RB#6	20.49	PASS
Band41	5MHz	16QAM	40265	12RB#13	20.67	PASS
Band41	5MHz	16QAM	40265	25RB#0	20.35	PASS
Band41	5MHz	16QAM	40740	1RB#0	21.49	PASS
Band41	5MHz	16QAM	40740	1RB#12	21.62	PASS
Band41	5MHz	16QAM	40740	1RB#24	21.55	PASS

Band41	5MHz	16QAM	40740	12RB#0	20.55	PASS
Band41	5MHz	16QAM	40740	12RB#6	20.56	PASS
Band41	5MHz	16QAM	40740	12RB#13	20.55	PASS
Band41	5MHz	16QAM	40740	25RB#0	20.53	PASS
Band41	5MHz	16QAM	41215	1RB#0	21.77	PASS
Band41	5MHz	16QAM	41215	1RB#12	21.86	PASS
Band41	5MHz	16QAM	41215	1RB#24	21.78	PASS
Band41	5MHz	16QAM	41215	12RB#0	21.04	PASS
Band41	5MHz	16QAM	41215	12RB#6	21.03	PASS
Band41	5MHz	16QAM	41215	12RB#13	21.01	PASS
Band41	5MHz	16QAM	41215	25RB#0	21.07	PASS
Band41	10MHz	QPSK	40290	1RB#0	22.47	PASS
Band41	10MHz	QPSK	40290	1RB#24	22.72	PASS
Band41	10MHz	QPSK	40290	1RB#49	22.42	PASS
Band41	10MHz	QPSK	40290	25RB#0	21.49	PASS
Band41	10MHz	QPSK	40290	25RB#12	21.49	PASS
Band41	10MHz	QPSK	40290	25RB#25	21.48	PASS
Band41	10MHz	QPSK	40290	50RB#0	21.48	PASS
Band41	10MHz	QPSK	40740	1RB#0	22.67	PASS
Band41	10MHz	QPSK	40740	1RB#24	23.02	PASS
Band41	10MHz	QPSK	40740	1RB#49	22.68	PASS
Band41	10MHz	QPSK	40740	25RB#0	21.73	PASS
Band41	10MHz	QPSK	40740	25RB#12	21.70	PASS
Band41	10MHz	QPSK	40740	25RB#25	21.70	PASS
Band41	10MHz	QPSK	40740	50RB#0	21.72	PASS
Band41	10MHz	QPSK	41190	1RB#0	22.94	PASS
Band41	10MHz	QPSK	41190	1RB#24	23.34	PASS
Band41	10MHz	QPSK	41190	1RB#49	23.06	PASS
Band41	10MHz	QPSK	41190	25RB#0	22.08	PASS
Band41	10MHz	QPSK	41190	25RB#12	22.10	PASS
Band41	10MHz	QPSK	41190	25RB#25	22.05	PASS
Band41	10MHz	QPSK	41190	50RB#0	22.09	PASS
Band41	10MHz	16QAM	40290	1RB#0	21.52	PASS
Band41	10MHz	16QAM	40290	1RB#24	21.70	PASS
Band41	10MHz	16QAM	40290	1RB#49	21.40	PASS
Band41	10MHz	16QAM	40290	25RB#0	20.51	PASS
Band41	10MHz	16QAM	40290	25RB#12	20.50	PASS

Band41	10MHz	16QAM	40290	25RB#25	20.47	PASS
Band41	10MHz	16QAM	40290	50RB#0	20.53	PASS
Band41	10MHz	16QAM	40740	1RB#0	21.45	PASS
Band41	10MHz	16QAM	40740	1RB#24	21.78	PASS
Band41	10MHz	16QAM	40740	1RB#49	21.54	PASS
Band41	10MHz	16QAM	40740	25RB#0	20.69	PASS
Band41	10MHz	16QAM	40740	25RB#12	20.74	PASS
Band41	10MHz	16QAM	40740	25RB#25	20.75	PASS
Band41	10MHz	16QAM	40740	50RB#0	20.74	PASS
Band41	10MHz	16QAM	41190	1RB#0	21.64	PASS
Band41	10MHz	16QAM	41190	1RB#24	22.06	PASS
Band41	10MHz	16QAM	41190	1RB#49	21.77	PASS
Band41	10MHz	16QAM	41190	25RB#0	21.17	PASS
Band41	10MHz	16QAM	41190	25RB#12	21.23	PASS
Band41	10MHz	16QAM	41190	25RB#25	21.16	PASS
Band41	10MHz	16QAM	41190	50RB#0	21.17	PASS
Band41	15MHz	QPSK	40315	1RB#0	22.45	PASS
Band41	15MHz	QPSK	40315	1RB#38	22.49	PASS
Band41	15MHz	QPSK	40315	1RB#74	22.35	PASS
Band41	15MHz	QPSK	40315	38RB#0	21.41	PASS
Band41	15MHz	QPSK	40315	38RB#18	21.45	PASS
Band41	15MHz	QPSK	40315	38RB#37	21.37	PASS
Band41	15MHz	QPSK	40315	75RB#0	21.54	PASS
Band41	15MHz	QPSK	40740	1RB#0	22.51	PASS
Band41	15MHz	QPSK	40740	1RB#38	22.63	PASS
Band41	15MHz	QPSK	40740	1RB#74	22.58	PASS
Band41	15MHz	QPSK	40740	38RB#0	21.60	PASS
Band41	15MHz	QPSK	40740	38RB#18	21.76	PASS
Band41	15MHz	QPSK	40740	38RB#37	21.73	PASS
Band41	15MHz	QPSK	40740	75RB#0	21.88	PASS
Band41	15MHz	QPSK	41165	1RB#0	22.84	PASS
Band41	15MHz	QPSK	41165	1RB#38	23.09	PASS
Band41	15MHz	QPSK	41165	1RB#74	22.99	PASS
Band41	15MHz	QPSK	41165	38RB#0	21.60	PASS
Band41	15MHz	QPSK	41165	38RB#18	21.77	PASS
Band41	15MHz	QPSK	41165	38RB#37	21.71	PASS
Band41	15MHz	QPSK	41165	75RB#0	22.18	PASS

Band41	15MHz	16QAM	40315	1RB#0	21.46	PASS
Band41	15MHz	16QAM	40315	1RB#38	21.45	PASS
Band41	15MHz	16QAM	40315	1RB#74	21.37	PASS
Band41	15MHz	16QAM	40315	38RB#0	21.43	PASS
Band41	15MHz	16QAM	40315	38RB#18	21.45	PASS
Band41	15MHz	16QAM	40315	38RB#37	21.34	PASS
Band41	15MHz	16QAM	40315	75RB#0	20.47	PASS
Band41	15MHz	16QAM	40740	1RB#0	21.57	PASS
Band41	15MHz	16QAM	40740	1RB#38	21.76	PASS
Band41	15MHz	16QAM	40740	1RB#74	21.74	PASS
Band41	15MHz	16QAM	40740	38RB#0	21.58	PASS
Band41	15MHz	16QAM	40740	38RB#18	21.76	PASS
Band41	15MHz	16QAM	40740	38RB#37	21.74	PASS
Band41	15MHz	16QAM	40740	75RB#0	20.79	PASS
Band41	15MHz	16QAM	41165	1RB#0	21.58	PASS
Band41	15MHz	16QAM	41165	1RB#38	21.77	PASS
Band41	15MHz	16QAM	41165	1RB#74	21.72	PASS
Band41	15MHz	16QAM	41165	38RB#0	21.59	PASS
Band41	15MHz	16QAM	41165	38RB#18	21.72	PASS
Band41	15MHz	16QAM	41165	38RB#37	21.72	PASS
Band41	15MHz	16QAM	41165	75RB#0	21.16	PASS
Band41	20MHz	QPSK	40340	1RB#0	22.31	PASS
Band41	20MHz	QPSK	40340	1RB#49	22.79	PASS
Band41	20MHz	QPSK	40340	1RB#99	22.35	PASS
Band41	20MHz	QPSK	40340	50RB#0	21.47	PASS
Band41	20MHz	QPSK	40340	50RB#25	21.46	PASS
Band41	20MHz	QPSK	40340	50RB#50	21.44	PASS
Band41	20MHz	QPSK	40340	100RB#0	21.50	PASS
Band41	20MHz	QPSK	40740	1RB#0	22.49	PASS
Band41	20MHz	QPSK	40740	1RB#49	22.99	PASS
Band41	20MHz	QPSK	40740	1RB#99	22.55	PASS
Band41	20MHz	QPSK	40740	50RB#0	21.69	PASS
Band41	20MHz	QPSK	40740	50RB#25	21.72	PASS
Band41	20MHz	QPSK	40740	50RB#50	21.75	PASS
Band41	20MHz	QPSK	40740	100RB#0	21.76	PASS
Band41	20MHz	QPSK	41140	1RB#0	22.57	PASS
Band41	20MHz	QPSK	41140	1RB#49	23.35	PASS

Band41	20MHz	QPSK	41140	1RB#99	22.87	PASS
Band41	20MHz	QPSK	41140	50RB#0	22.04	PASS
Band41	20MHz	QPSK	41140	50RB#25	22.03	PASS
Band41	20MHz	QPSK	41140	50RB#50	21.95	PASS
Band41	20MHz	QPSK	41140	100RB#0	21.99	PASS
Band41	20MHz	16QAM	40340	1RB#0	21.22	PASS
Band41	20MHz	16QAM	40340	1RB#49	21.65	PASS
Band41	20MHz	16QAM	40340	1RB#99	21.18	PASS
Band41	20MHz	16QAM	40340	50RB#0	20.44	PASS
Band41	20MHz	16QAM	40340	50RB#25	20.43	PASS
Band41	20MHz	16QAM	40340	50RB#50	20.47	PASS
Band41	20MHz	16QAM	40340	100RB#0	20.46	PASS
Band41	20MHz	16QAM	40740	1RB#0	21.51	PASS
Band41	20MHz	16QAM	40740	1RB#49	22.05	PASS
Band41	20MHz	16QAM	40740	1RB#99	21.68	PASS
Band41	20MHz	16QAM	40740	50RB#0	20.74	PASS
Band41	20MHz	16QAM	40740	50RB#25	20.72	PASS
Band41	20MHz	16QAM	40740	50RB#50	20.78	PASS
Band41	20MHz	16QAM	40740	100RB#0	20.74	PASS
Band41	20MHz	16QAM	41140	1RB#0	21.47	PASS
Band41	20MHz	16QAM	41140	1RB#49	22.04	PASS
Band41	20MHz	16QAM	41140	1RB#99	21.62	PASS
Band41	20MHz	16QAM	41140	50RB#0	21.15	PASS
Band41	20MHz	16QAM	41140	50RB#25	21.15	PASS
Band41	20MHz	16QAM	41140	50RB#50	21.10	PASS
Band41	20MHz	16QAM	41140	100RB#0	21.09	PASS

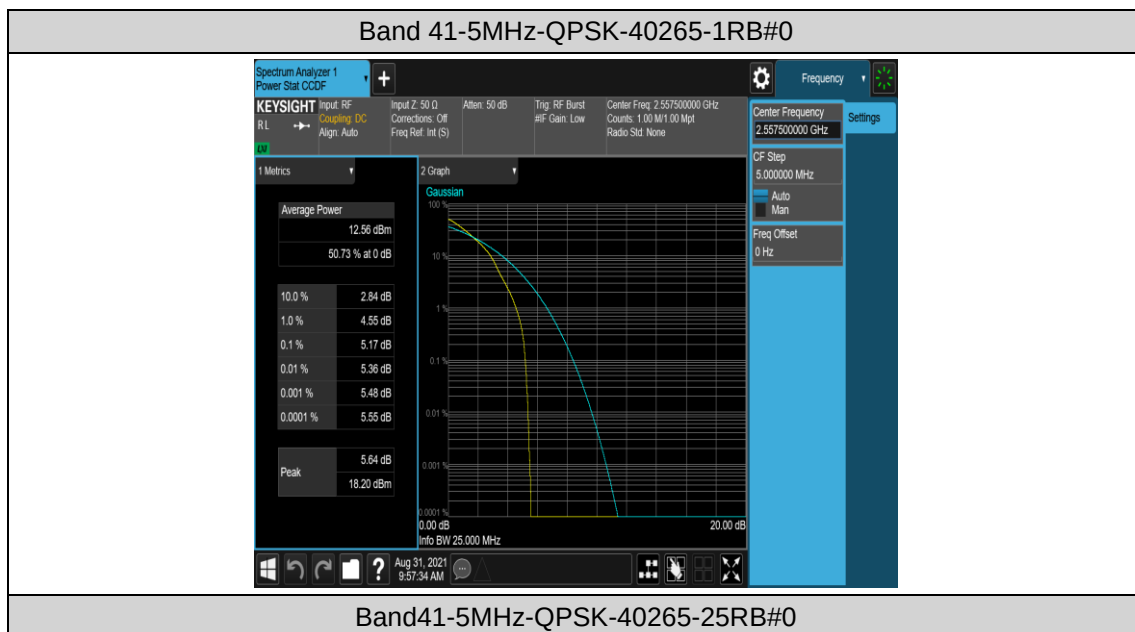
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	40265	1RB#0	5.17	13	PASS
Band41	5MHz	QPSK	40265	25RB#0	5.26	13	PASS
Band41	5MHz	QPSK	40740	1RB#0	4.45	13	PASS
Band41	5MHz	QPSK	40740	25RB#0	4.71	13	PASS
Band41	5MHz	QPSK	41215	1RB#0	4.00	13	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.41	13	PASS
Band41	5MHz	16QAM	40265	1RB#0	6.23	13	PASS
Band41	5MHz	16QAM	40265	25RB#0	6.23	13	PASS
Band41	5MHz	16QAM	40740	1RB#0	5.06	13	PASS
Band41	5MHz	16QAM	40740	25RB#0	5.59	13	PASS
Band41	5MHz	16QAM	41215	1RB#0	5.02	13	PASS
Band41	5MHz	16QAM	41215	25RB#0	5.28	13	PASS
Band41	10MHz	QPSK	40290	1RB#0	4.90	13	PASS
Band41	10MHz	QPSK	40290	50RB#0	5.09	13	PASS
Band41	10MHz	QPSK	40740	1RB#0	4.04	13	PASS
Band41	10MHz	QPSK	40740	50RB#0	4.69	13	PASS
Band41	10MHz	QPSK	41190	1RB#0	3.99	13	PASS
Band41	10MHz	QPSK	41190	50RB#0	4.40	13	PASS
Band41	10MHz	16QAM	40290	1RB#0	6.08	13	PASS
Band41	10MHz	16QAM	40290	50RB#0	5.95	13	PASS
Band41	10MHz	16QAM	40740	1RB#0	4.93	13	PASS
Band41	10MHz	16QAM	40740	50RB#0	5.56	13	PASS
Band41	10MHz	16QAM	41190	1RB#0	4.96	13	PASS
Band41	10MHz	16QAM	41190	50RB#0	5.27	13	PASS
Band41	15MHz	QPSK	40315	1RB#0	4.96	13	PASS
Band41	15MHz	QPSK	40315	75RB#0	5.25	13	PASS
Band41	15MHz	QPSK	40740	1RB#0	4.18	13	PASS
Band41	15MHz	QPSK	40740	75RB#0	4.93	13	PASS
Band41	15MHz	QPSK	41165	1RB#0	3.96	13	PASS
Band41	15MHz	QPSK	41165	75RB#0	4.78	13	PASS
Band41	15MHz	16QAM	40315	1RB#0	6.25	13	PASS
Band41	15MHz	16QAM	40315	75RB#0	5.97	13	PASS
Band41	15MHz	16QAM	40740	1RB#0	5.05	13	PASS
Band41	15MHz	16QAM	40740	75RB#0	5.75	13	PASS
Band41	15MHz	16QAM	41165	1RB#0	5.37	13	PASS

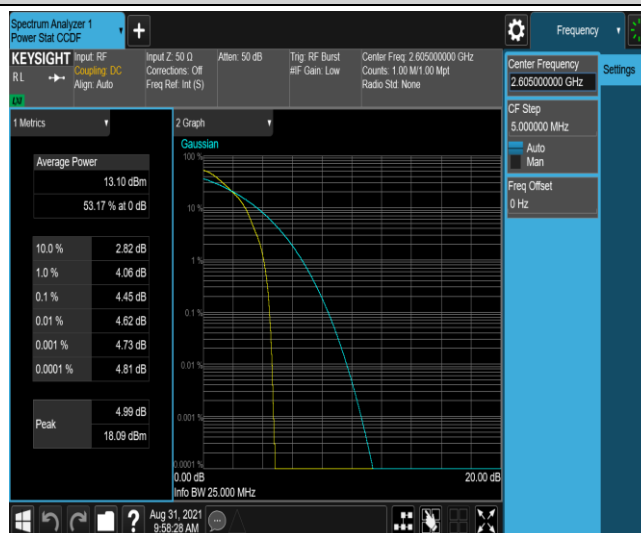
Band41	15MHz	16QAM	41165	75RB#0	5.60	13	PASS
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Band41	20MHz	QPSK	40340	100RB#0	5.11	13	PASS
Band41	20MHz	QPSK	40740	1RB#0	4.05	13	PASS
Band41	20MHz	QPSK	40740	100RB#0	4.99	13	PASS
Band41	20MHz	QPSK	41140	1RB#0	4.20	13	PASS
Band41	20MHz	QPSK	41140	100RB#0	5.00	13	PASS
Band41	20MHz	16QAM	40340	1RB#0	5.99	13	PASS
Band41	20MHz	16QAM	40340	100RB#0	5.88	13	PASS
Band41	20MHz	16QAM	40740	1RB#0	4.55	13	PASS
Band41	20MHz	16QAM	40740	100RB#0	5.77	13	PASS
Band41	20MHz	16QAM	41140	1RB#0	5.30	13	PASS
Band41	20MHz	16QAM	41140	100RB#0	5.76	13	PASS

Test Graphs

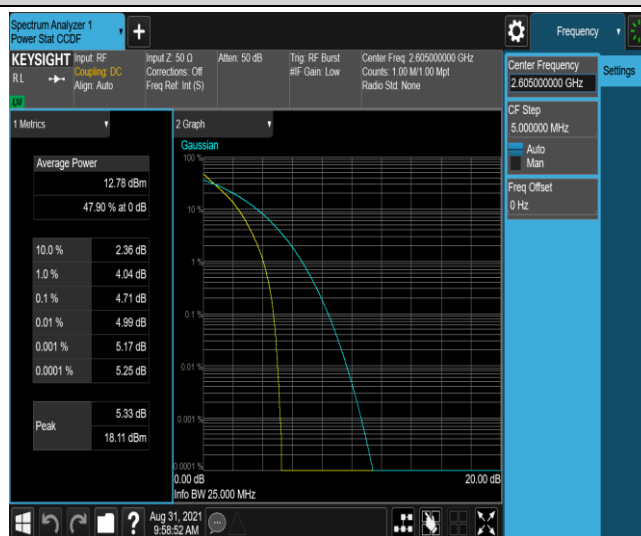




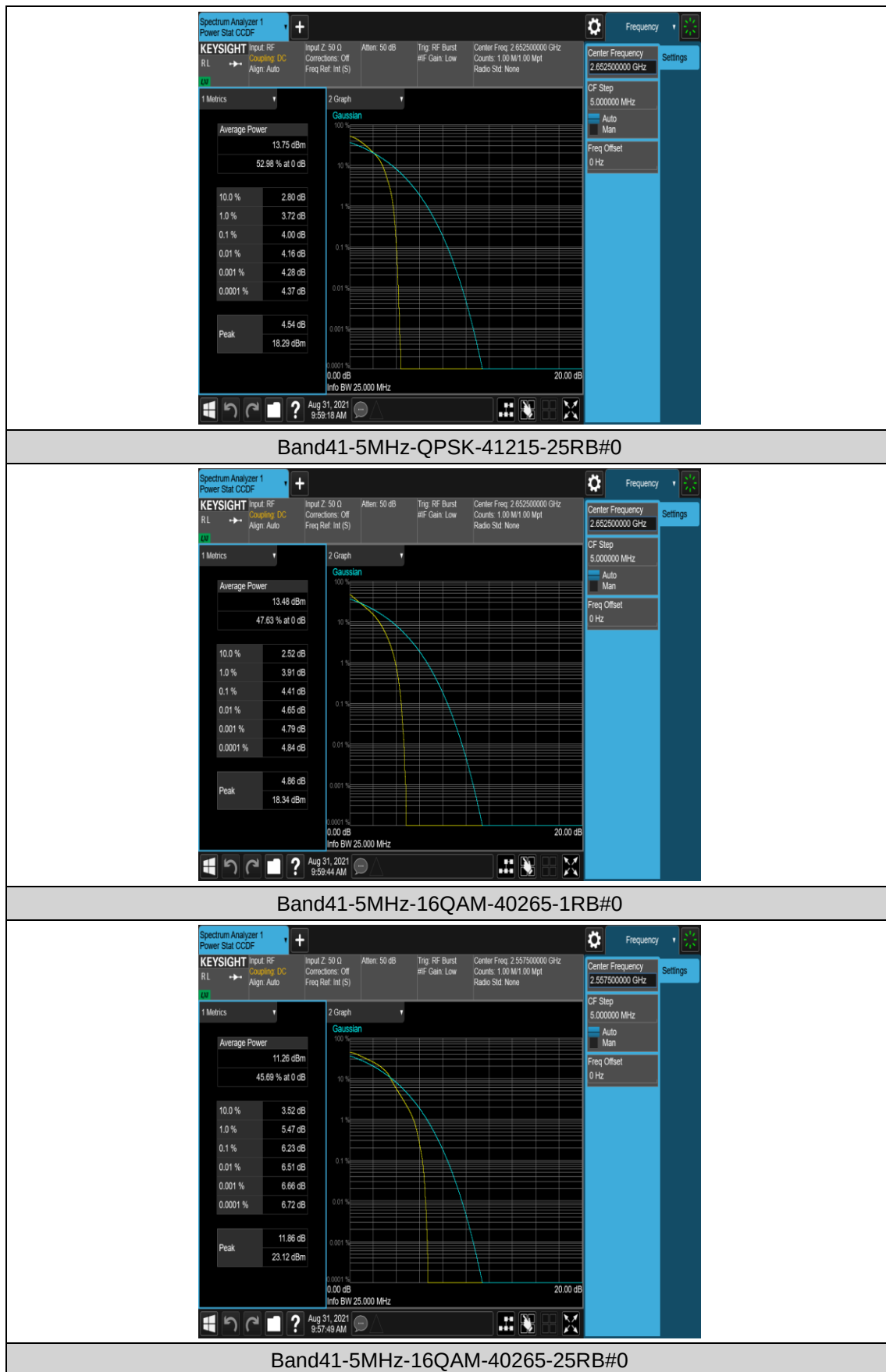
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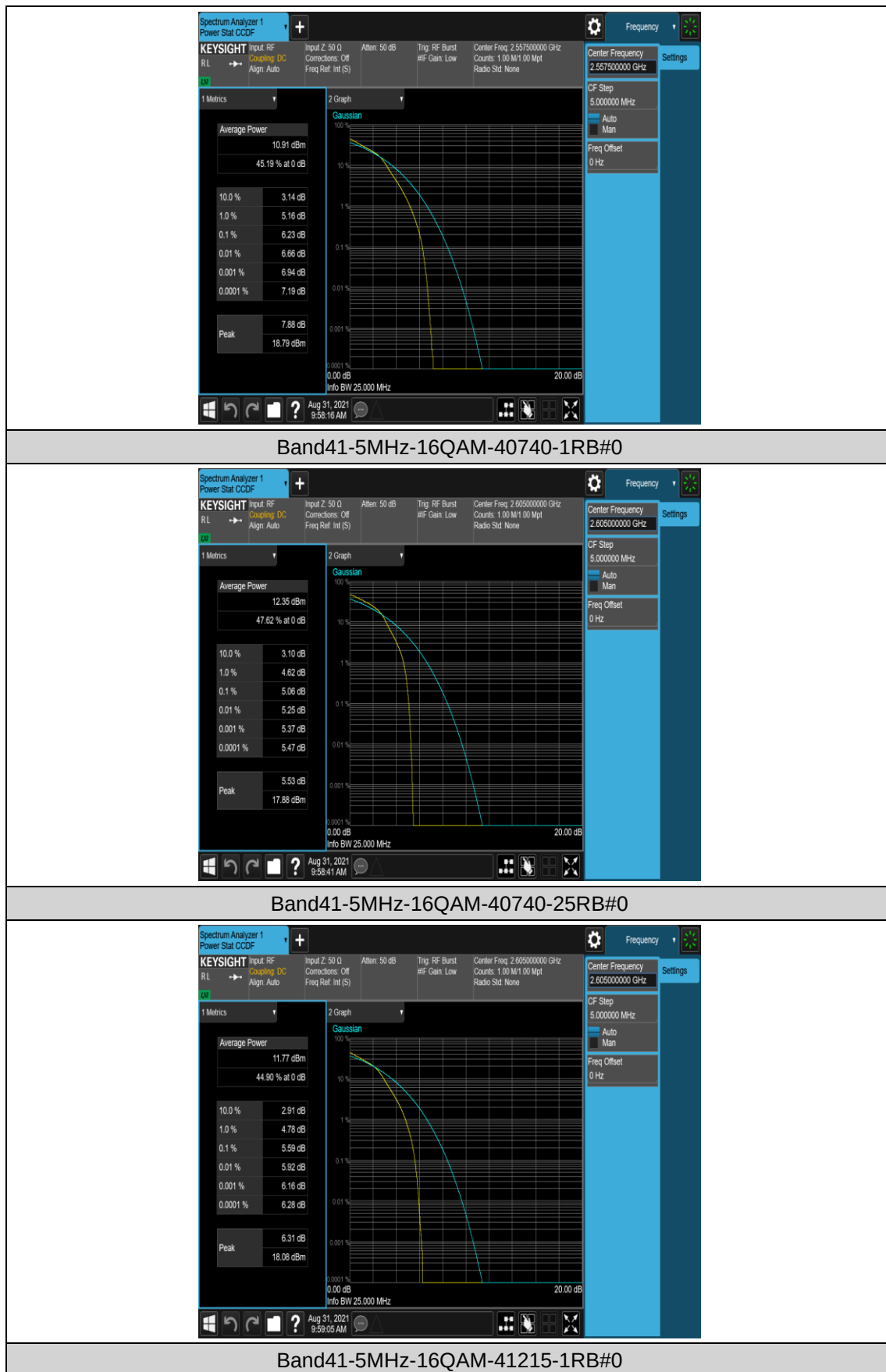


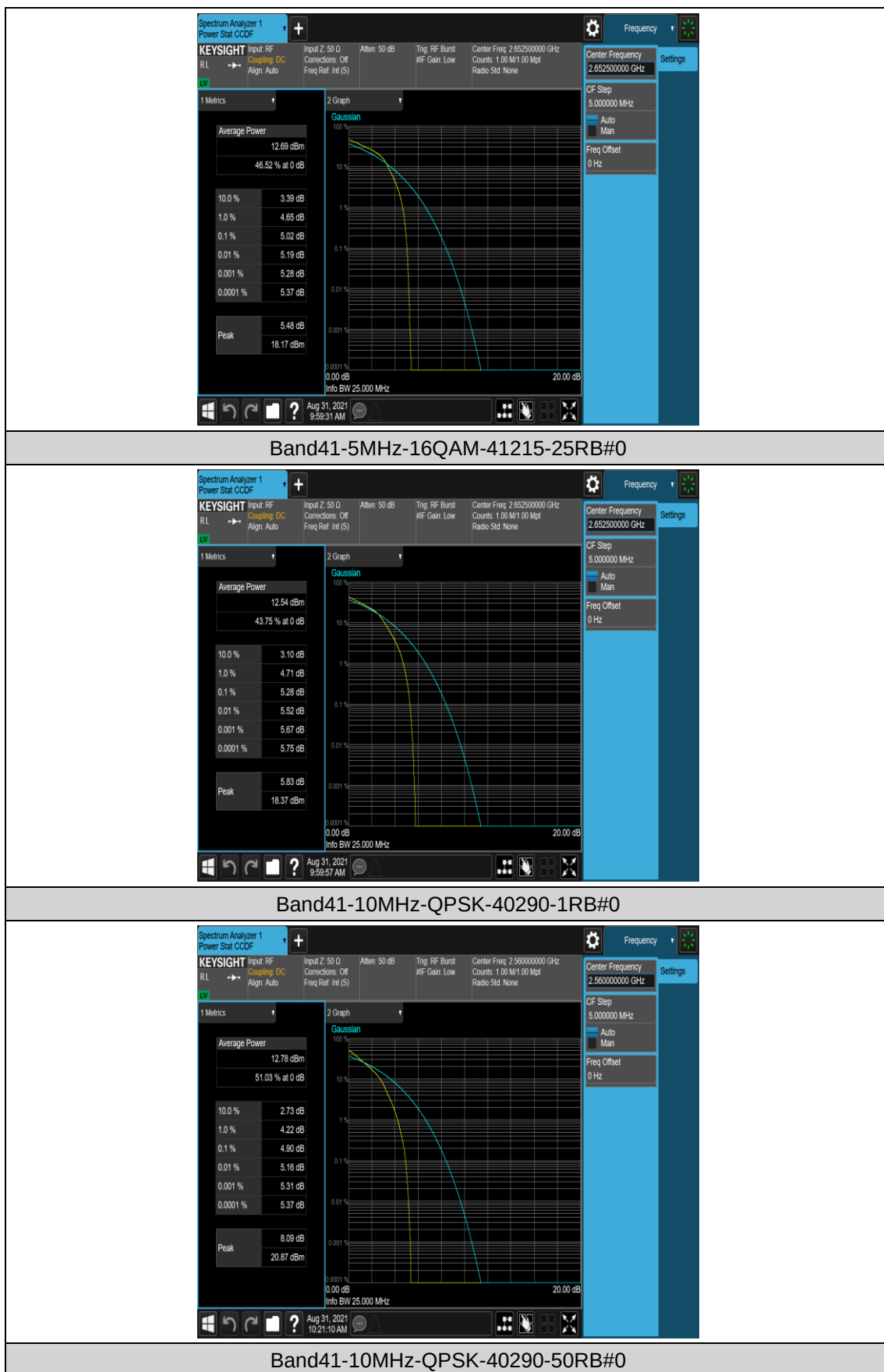
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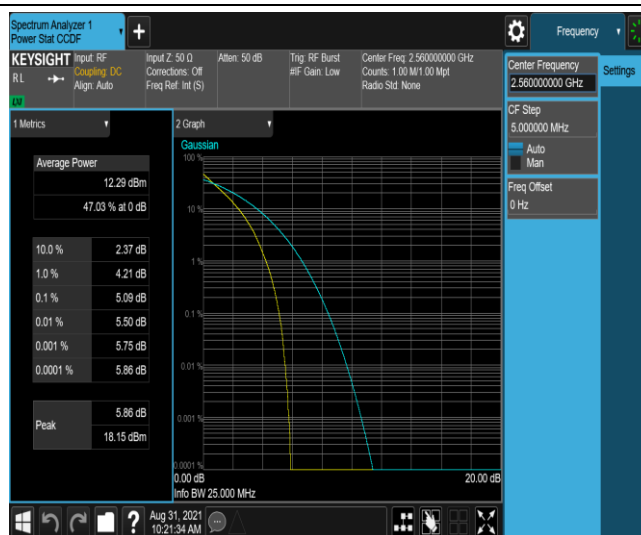


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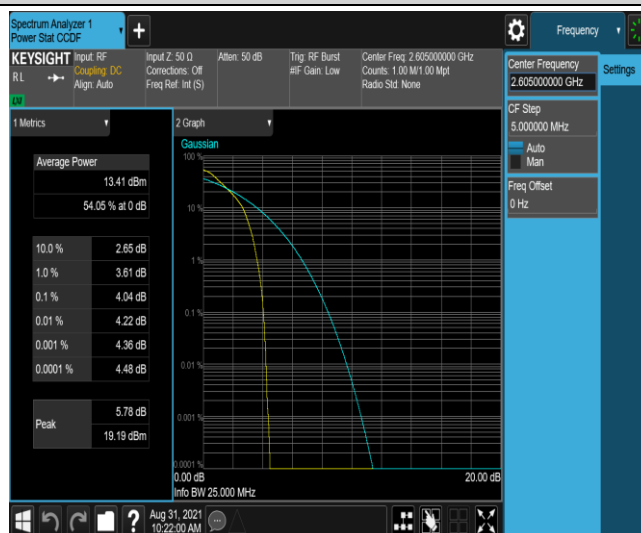




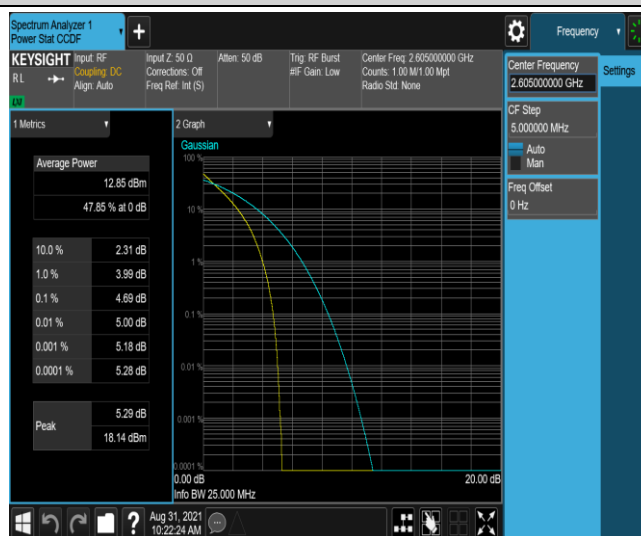




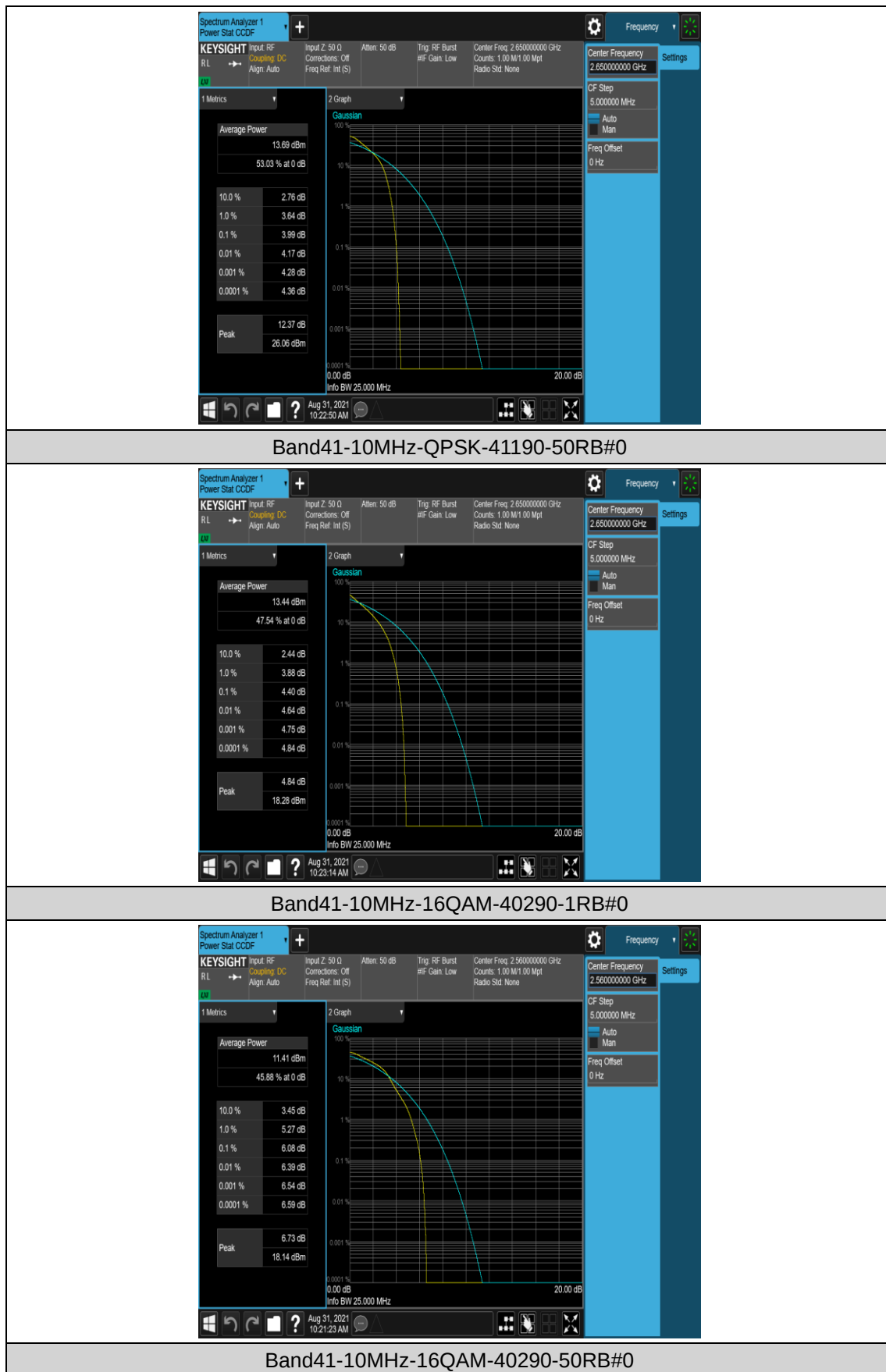
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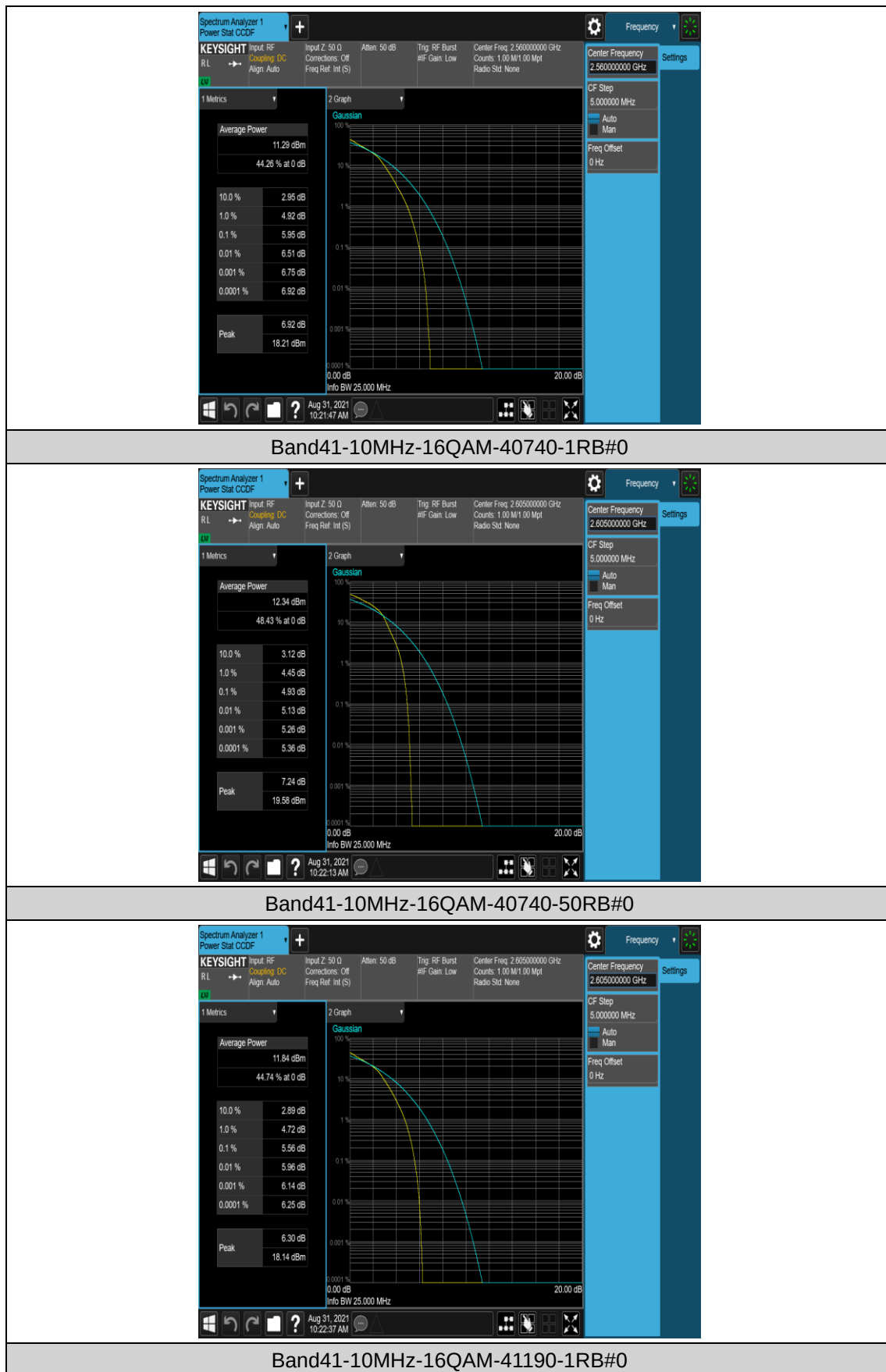


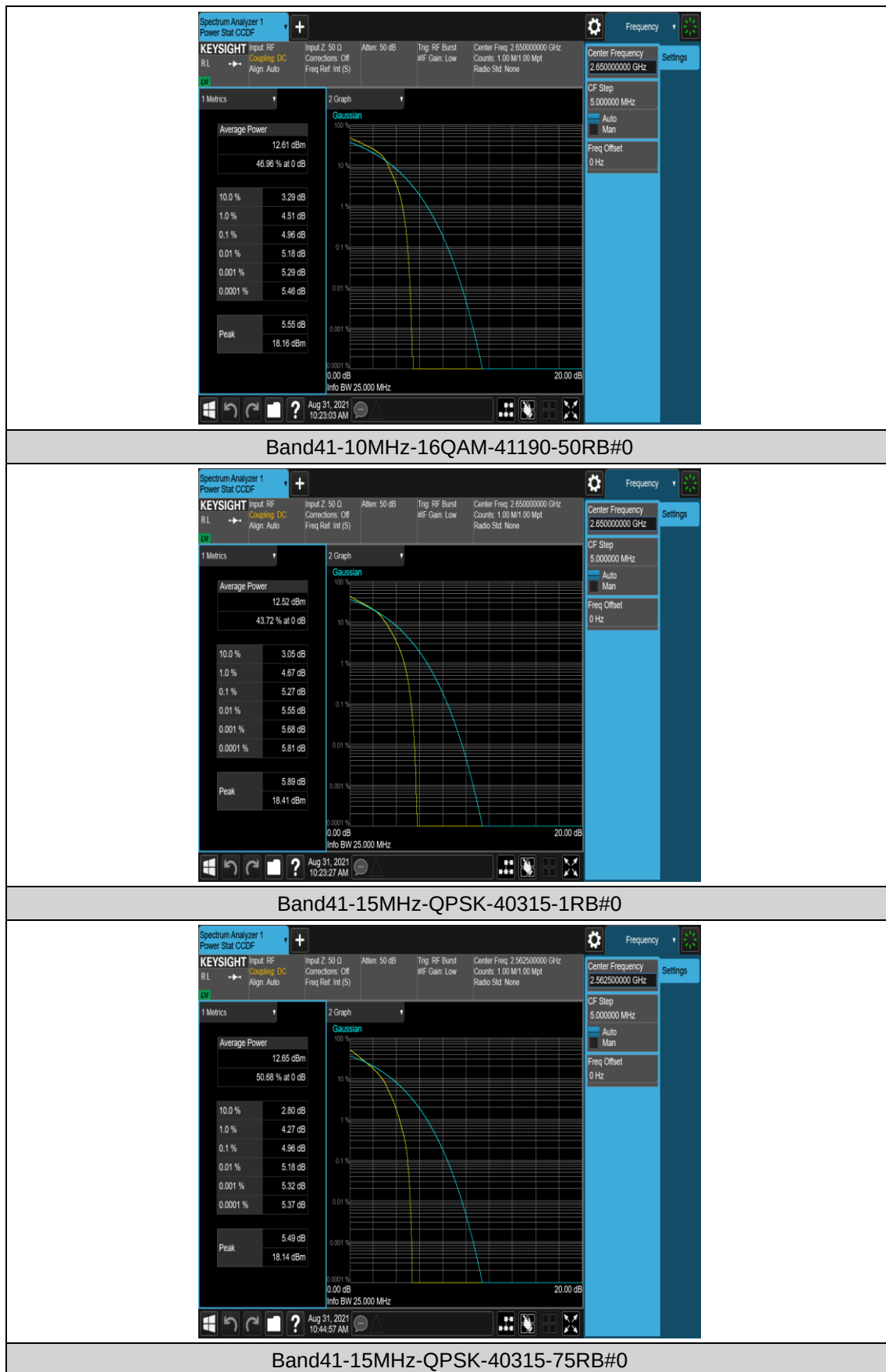
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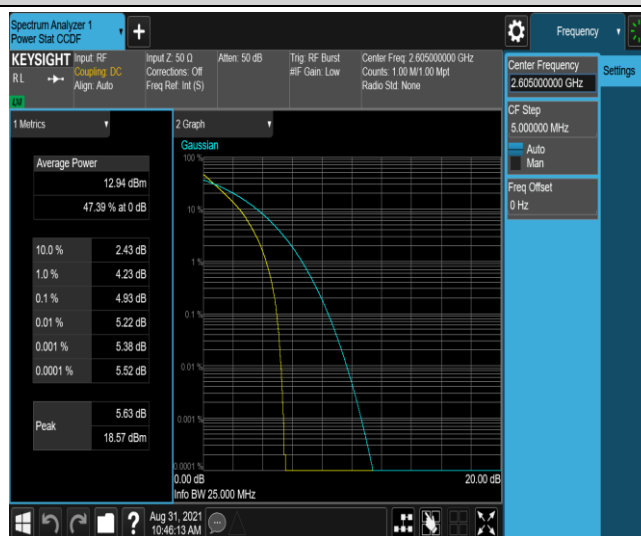




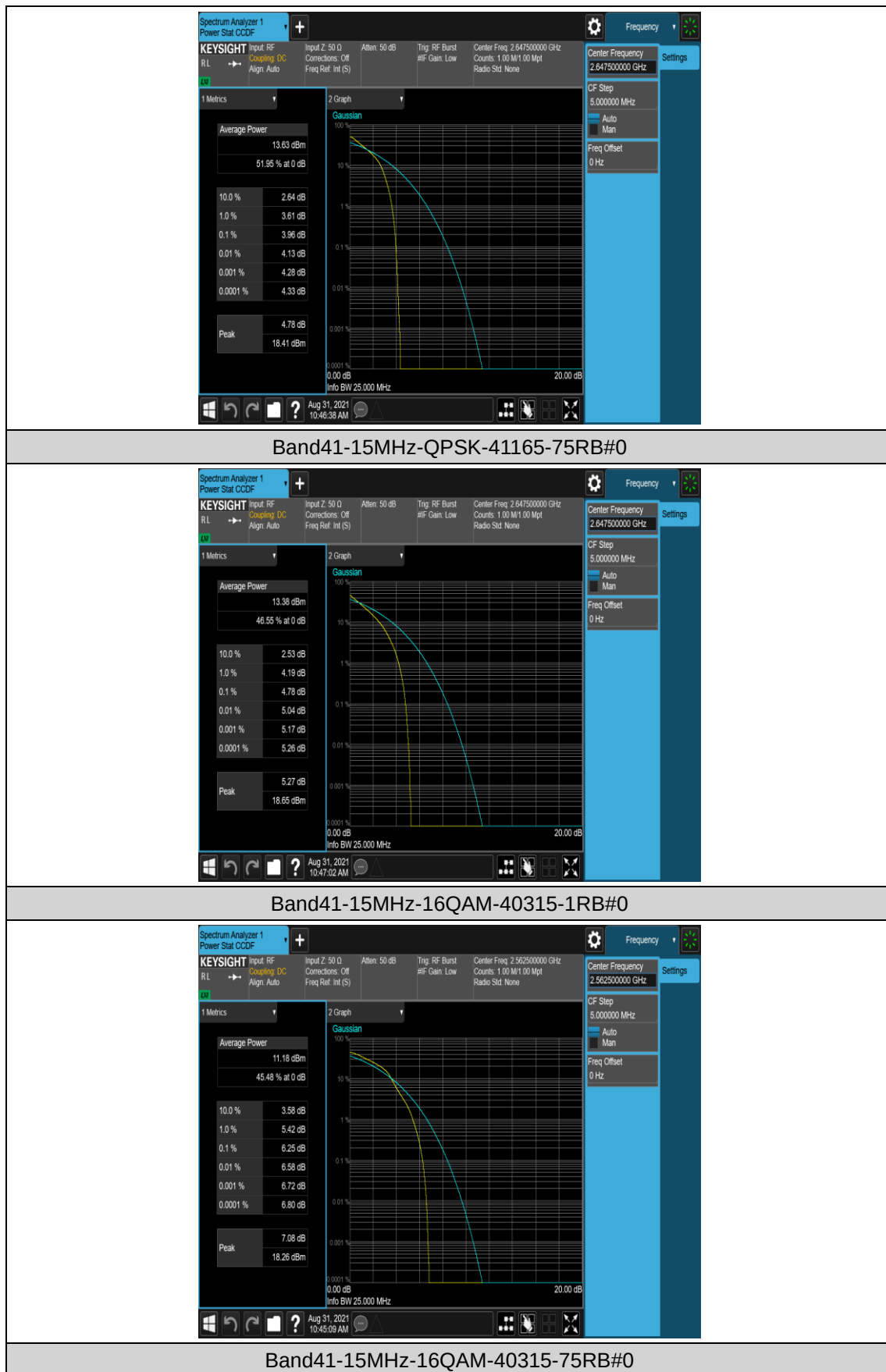
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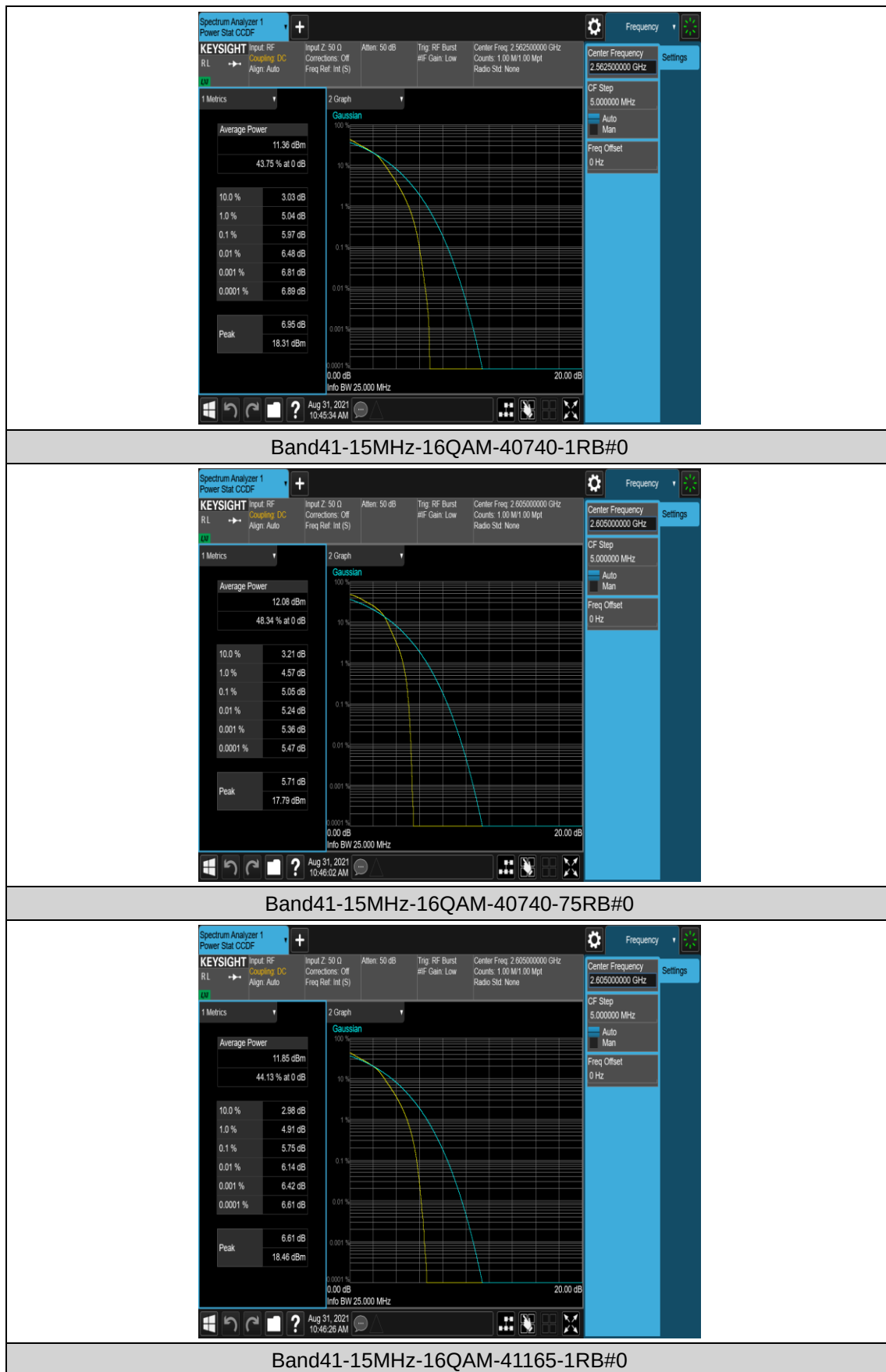


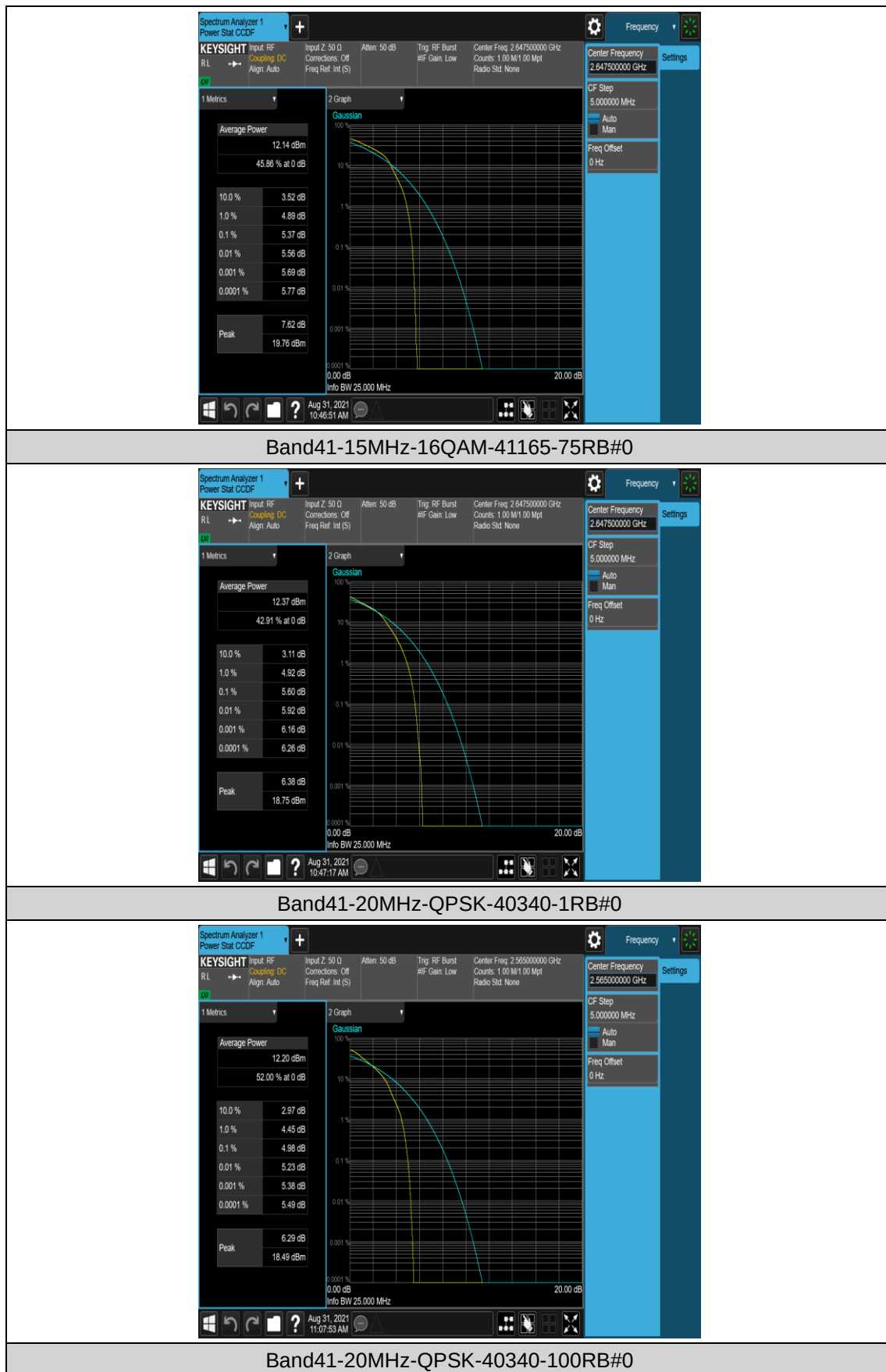
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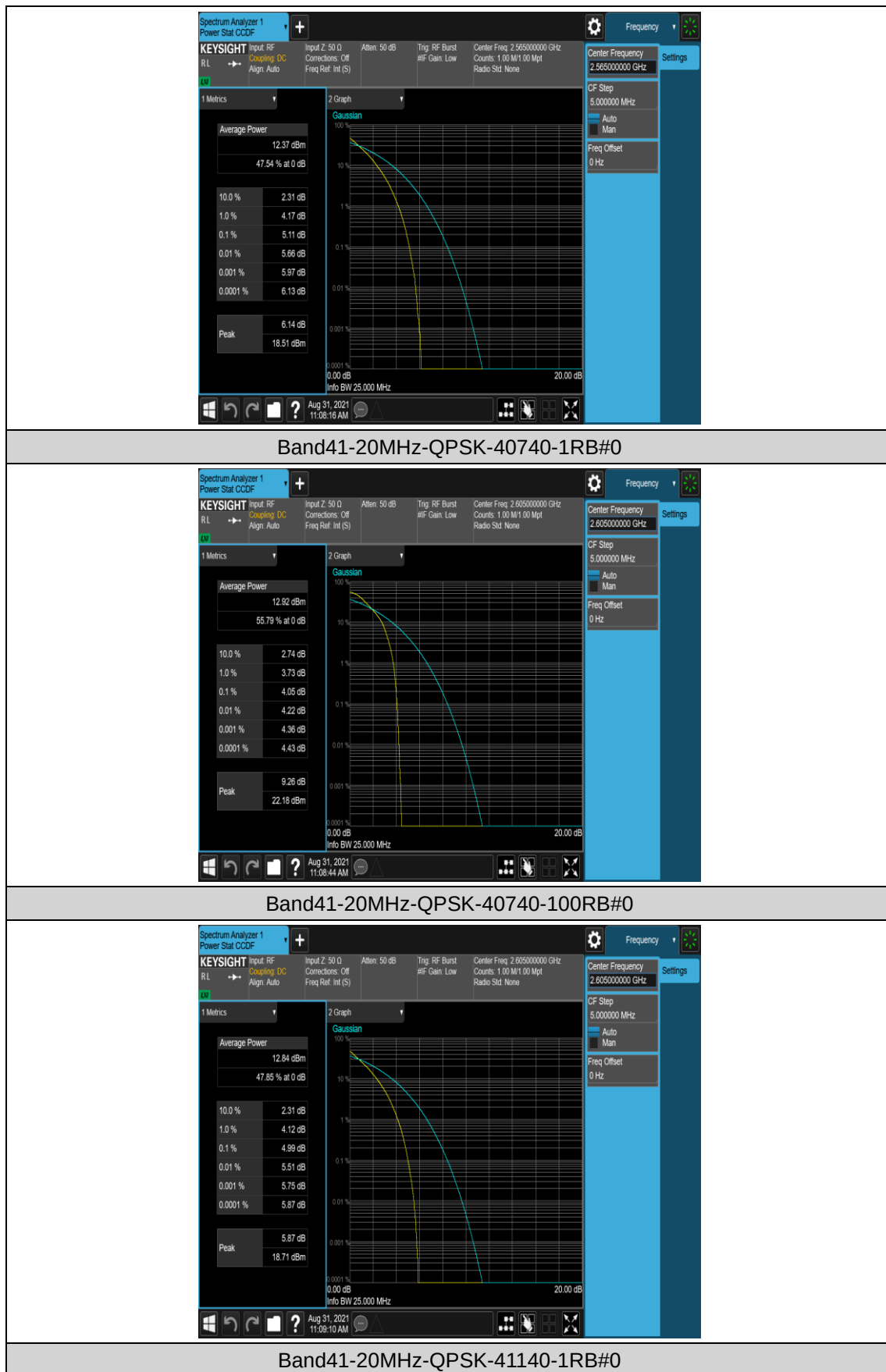


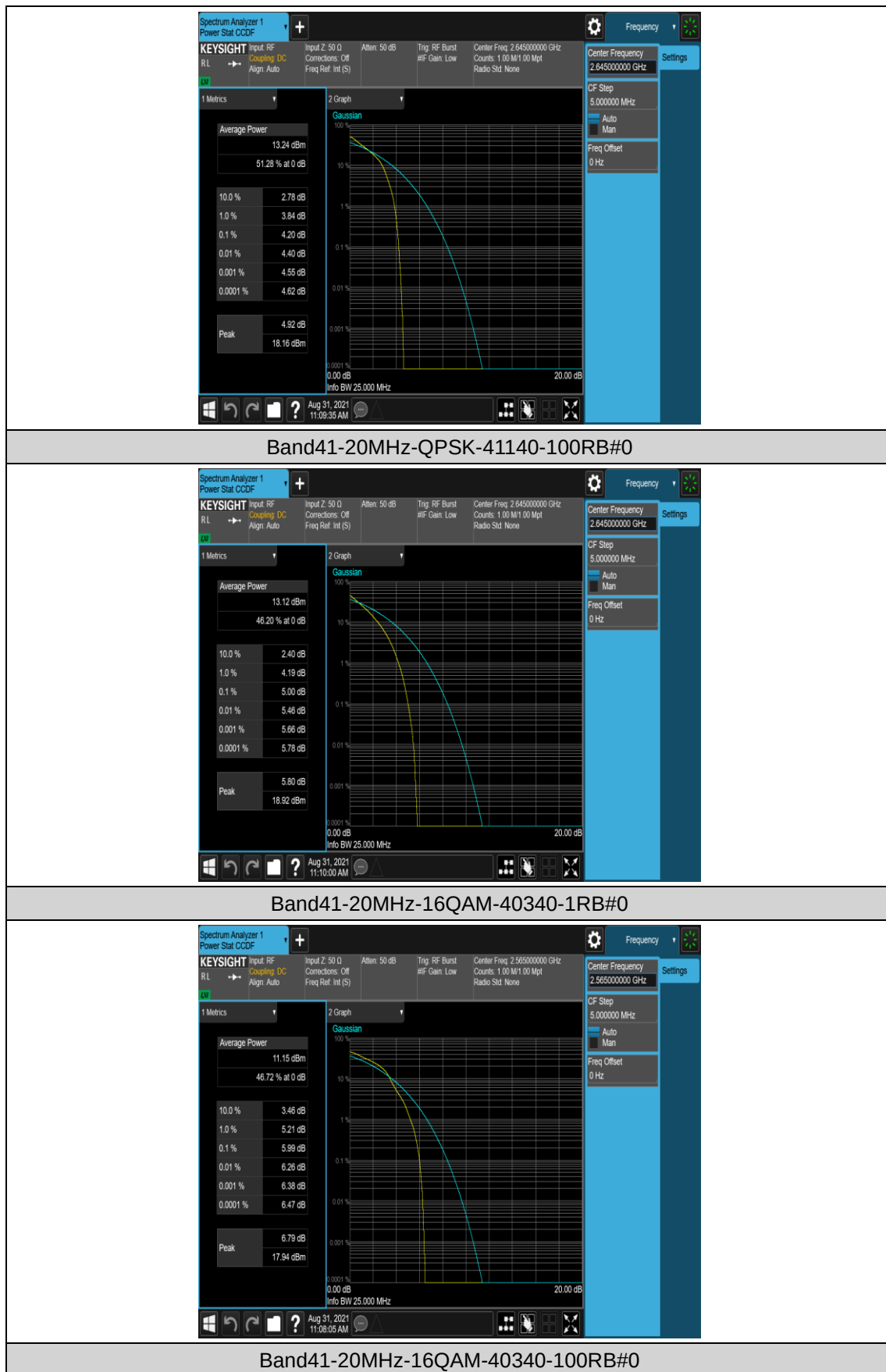
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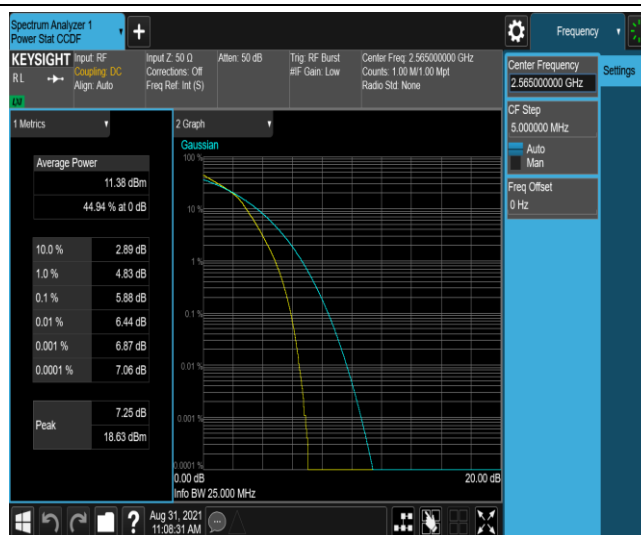




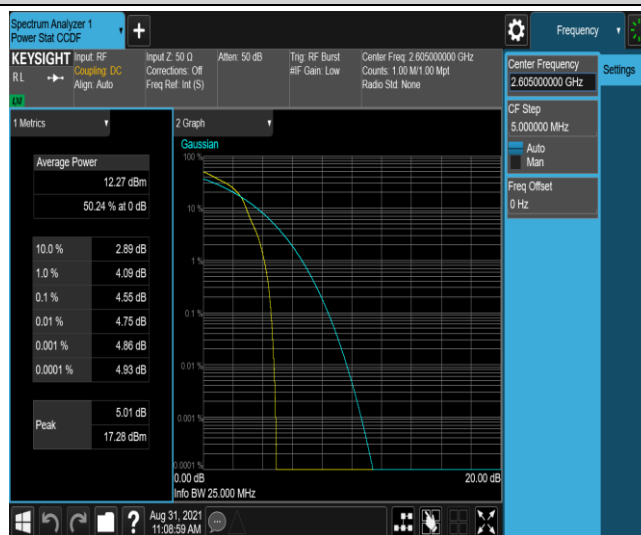








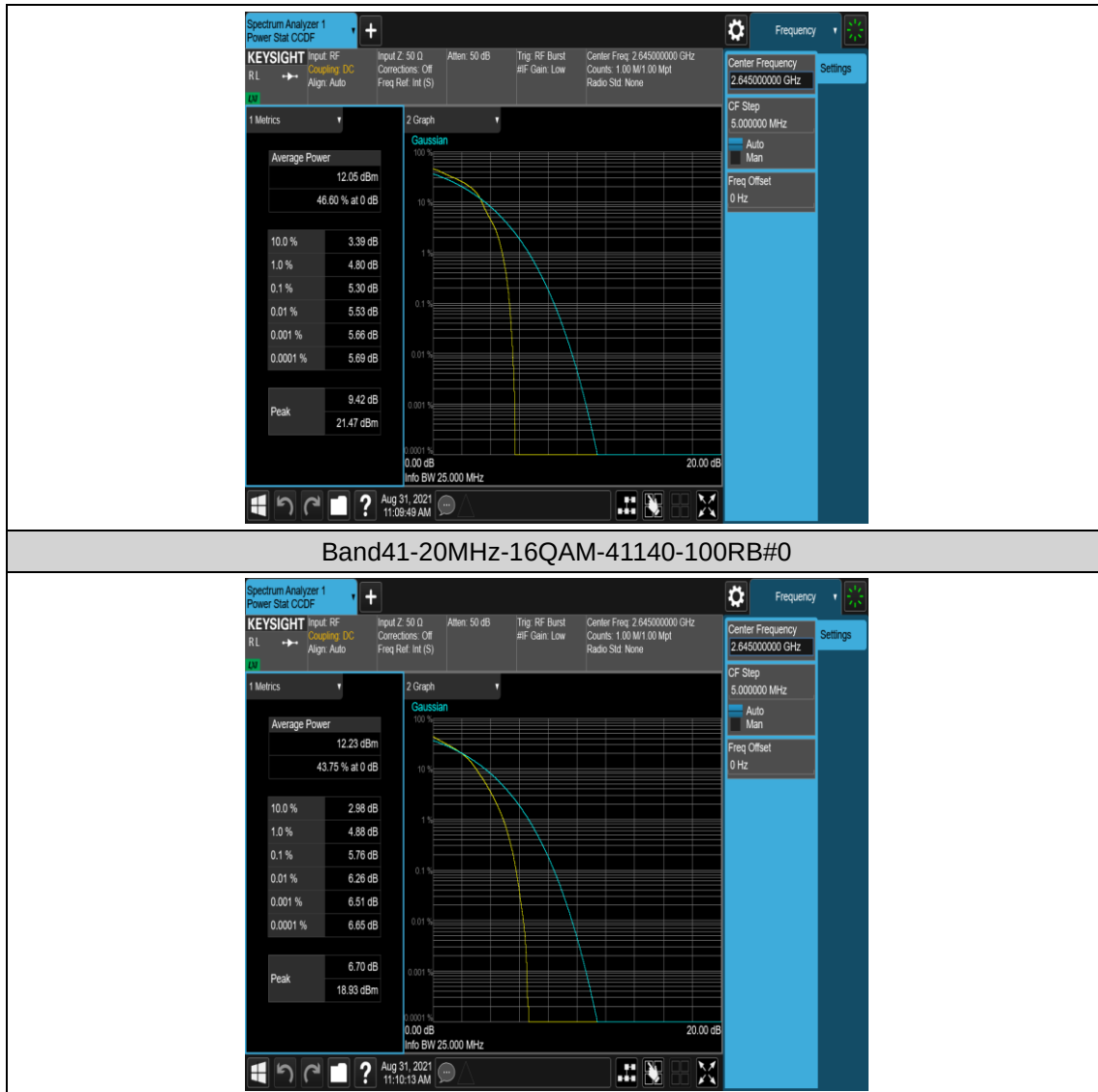
Band41-20MHz-16QAM-40740-1RB#0



Band41-20MHz-16QAM-40740-100RB#0



Band41-20MHz-16QAM-41140-1RB#0



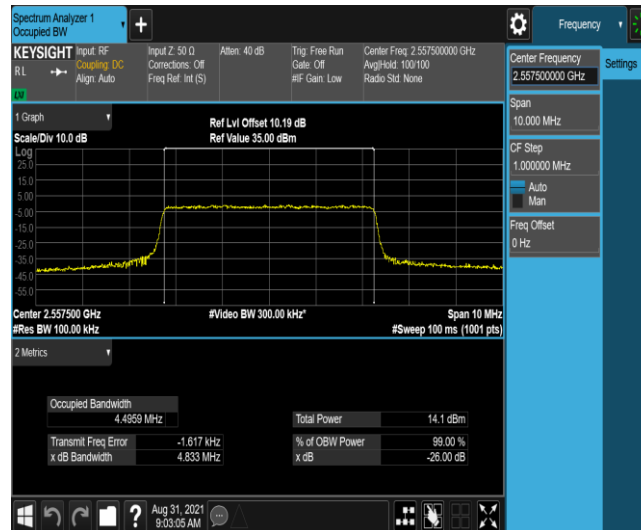
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

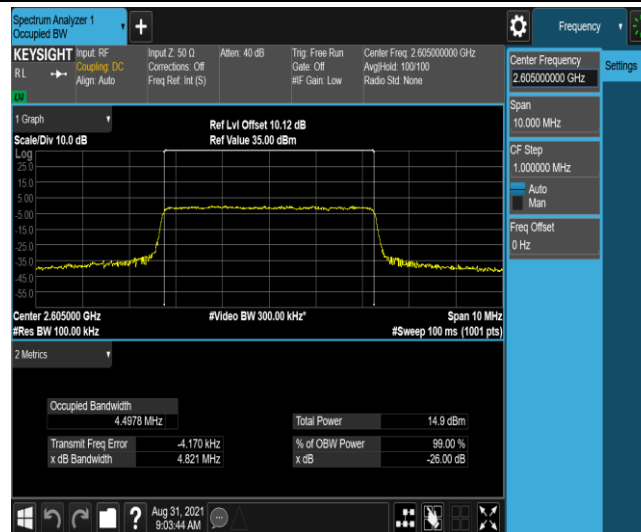
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	40265	25RB#0	4.4959	4.833	PASS
Band41	5MHz	QPSK	40740	25RB#0	4.4978	4.821	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.4992	4.839	PASS
Band41	5MHz	16QAM	40265	25RB#0	4.4916	4.782	PASS
Band41	5MHz	16QAM	40740	25RB#0	4.4898	4.791	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.4924	4.789	PASS
Band41	10MHz	QPSK	40290	50RB#0	8.9766	9.482	PASS
Band41	10MHz	QPSK	40740	50RB#0	8.9749	9.500	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.9733	9.489	PASS
Band41	10MHz	16QAM	40290	50RB#0	8.9875	9.512	PASS
Band41	10MHz	16QAM	40740	50RB#0	8.9891	9.512	PASS
Band41	10MHz	16QAM	41190	50RB#0	8.9898	9.509	PASS
Band41	15MHz	QPSK	40315	75RB#0	13.485	14.28	PASS
Band41	15MHz	QPSK	40740	75RB#0	13.490	14.27	PASS
Band41	15MHz	QPSK	41165	75RB#0	13.484	14.27	PASS
Band41	15MHz	16QAM	40315	75RB#0	13.480	14.24	PASS
Band41	15MHz	16QAM	40740	75RB#0	13.470	14.26	PASS
Band41	15MHz	16QAM	41165	75RB#0	13.476	14.27	PASS
Band41	20MHz	QPSK	40340	100RB#0	17.936	18.98	PASS
Band41	20MHz	QPSK	40740	100RB#0	17.946	18.96	PASS
Band41	20MHz	QPSK	41140	100RB#0	17.927	18.95	PASS
Band41	20MHz	16QAM	40340	100RB#0	17.934	18.92	PASS
Band41	20MHz	16QAM	40740	100RB#0	17.936	18.94	PASS
Band41	20MHz	16QAM	41140	100RB#0	17.935	18.94	PASS

Test Graphs

Band41-5MHz-QPSK-40265-25RB#0



Band41-5MHz-QPSK-40740-25RB#0



Band41-5MHz-QPSK-41215-25RB#0





