

Appendix for Band 5

Product Name: Rugged Phone

Model No: MDT661

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.76	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.84	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.73	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.81	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.82	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.79	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.89	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.03	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.13	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.06	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.11	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.08	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.17	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.08	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.97	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.11	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.95	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.18	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.20	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.04	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.74	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.88	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.68	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.62	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.64	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.63	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.88	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.93	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.98	PASS

Band5	1.4MHz	16QAM	20525	1RB#5	21.88	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.86	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.91	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.85	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.96	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.94	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.15	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.95	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.99	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.98	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.99	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.13	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.39	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.42	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.46	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.43	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.43	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.41	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.38	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.69	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.51	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.29	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.67	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.58	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.64	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.52	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.21	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.12	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.15	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.18	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.16	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.12	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.14	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.43	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.38	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.47	PASS

Band5	3MHz	16QAM	20415	8RB#0	21.50	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.33	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.53	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.19	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.00	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.58	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.63	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.56	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.09	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.31	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.23	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.23	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.25	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.30	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.24	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.28	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.39	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.51	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.97	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.94	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.98	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.00	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.00	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.03	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.18	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.07	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.20	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.14	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.10	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.18	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.18	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.26	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.16	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.25	PASS

Band5	5MHz	QPSK	20625	12RB#6	22.30	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.18	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.25	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.26	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.27	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.92	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.89	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.88	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.96	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.98	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.13	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.21	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.15	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.21	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.20	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.13	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.17	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.17	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.24	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.09	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.28	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.29	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.15	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.28	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.42	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.59	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.49	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.00	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.03	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.19	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.07	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.12	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.31	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.21	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.25	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.19	PASS

Band5	10MHz	QPSK	20525	25RB#25	22.21	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.18	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.70	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.57	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.42	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.38	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.35	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.15	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.28	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.41	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.58	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.24	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.01	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.95	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.18	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.07	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.99	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.09	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.09	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.20	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.23	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.22	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.18	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.27	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.34	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.22	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.39	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.39	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.21	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.29	PASS

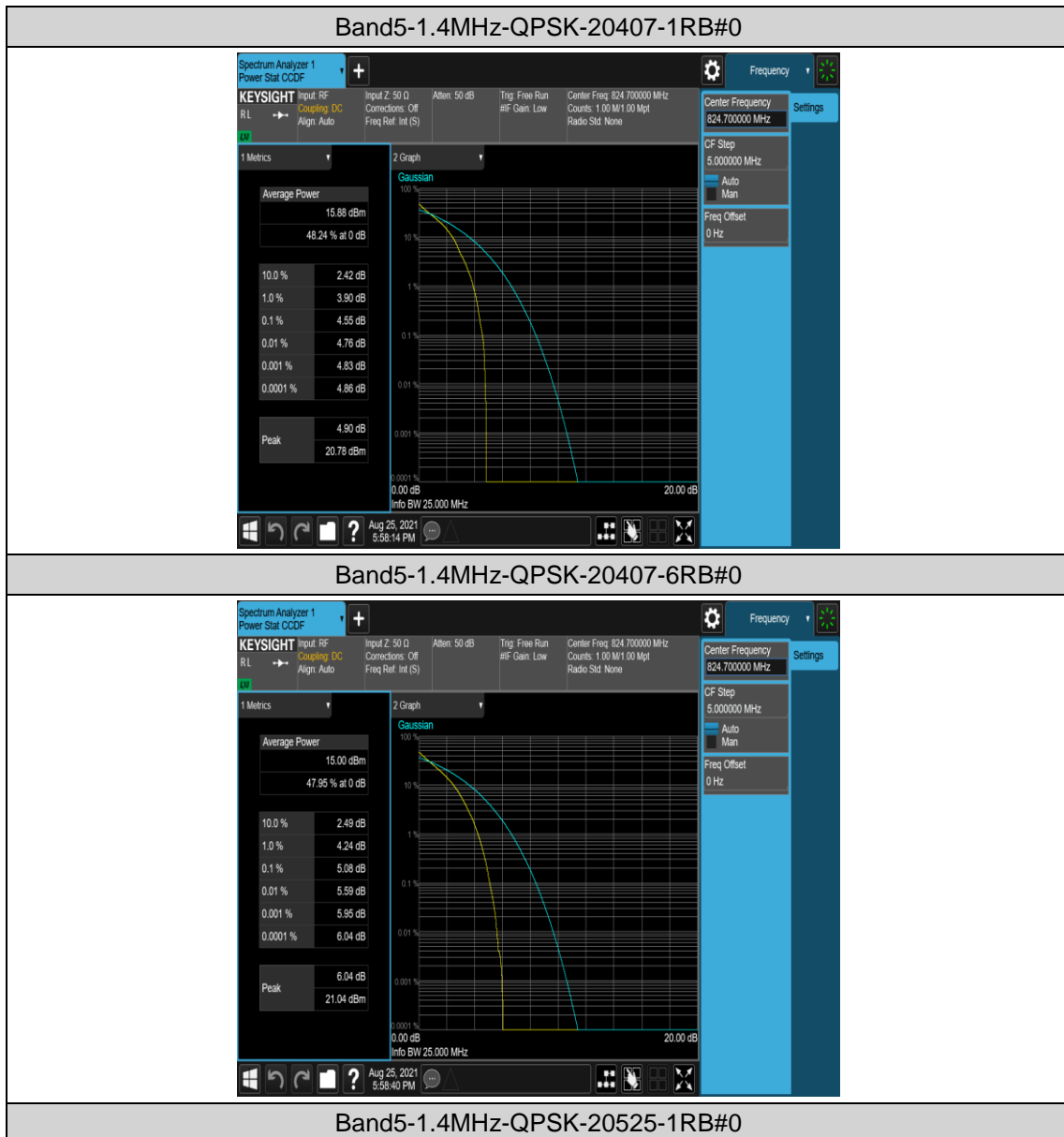
Appendix B: Peak-to-Average Ratio(CCDF)

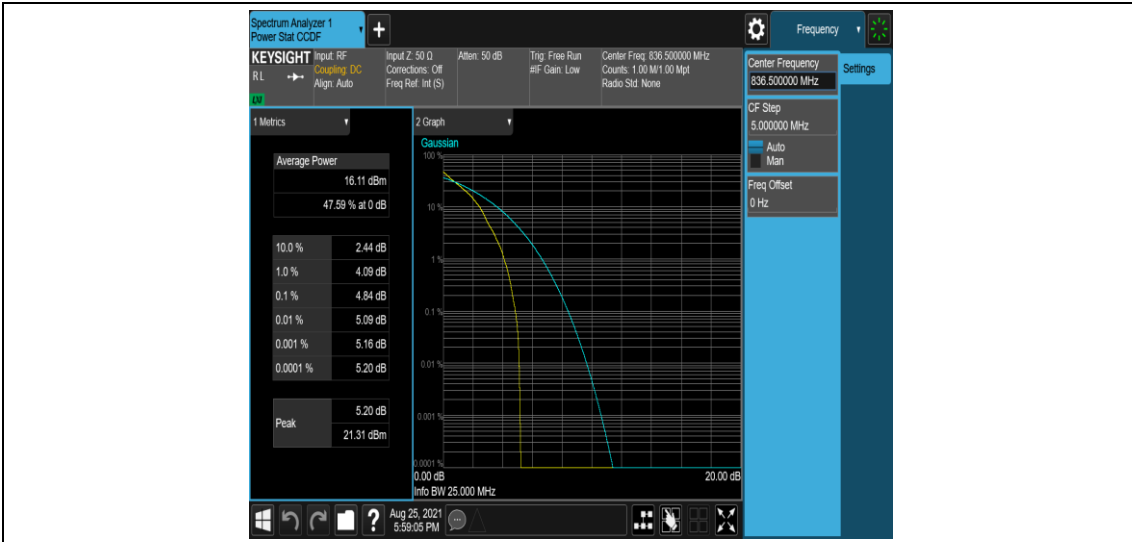
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.55	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.08	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.84	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.27	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.81	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.45	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.62	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.87	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.82	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.05	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.69	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.30	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.50	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.17	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.95	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.29	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.87	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.52	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.32	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.98	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.76	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.04	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.66	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.34	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.62	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.38	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.18	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.33	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.86	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.56	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.24	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.10	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.88	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.05	13	PASS

Band5	5MHz	16QAM	20625	1RB#0	5.58	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.33	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.55	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.50	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.22	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.33	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.43	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.40	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.46	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.25	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.11	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.28	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.19	13	PASS

Test Graphs

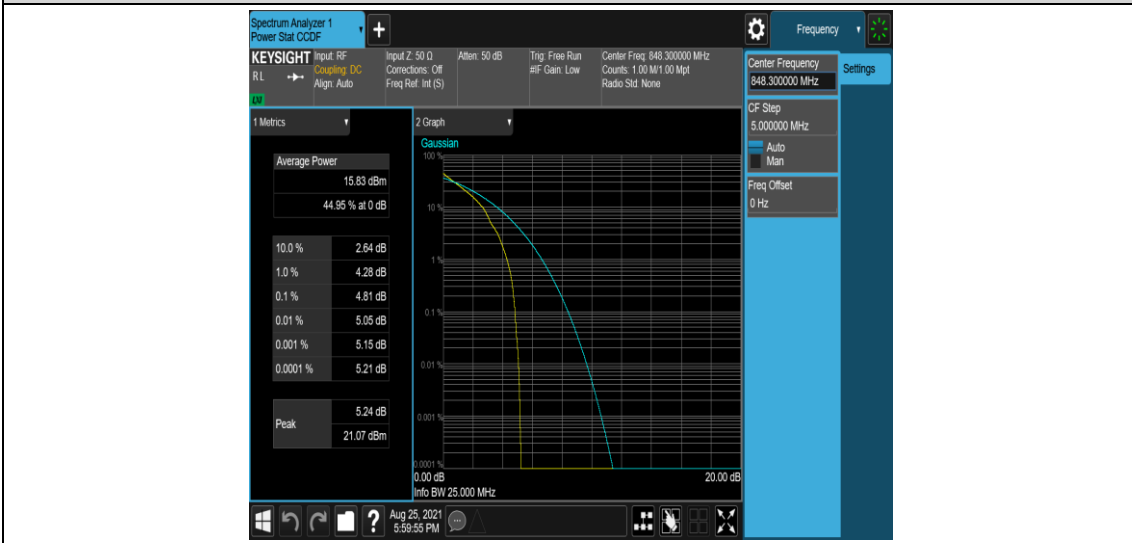




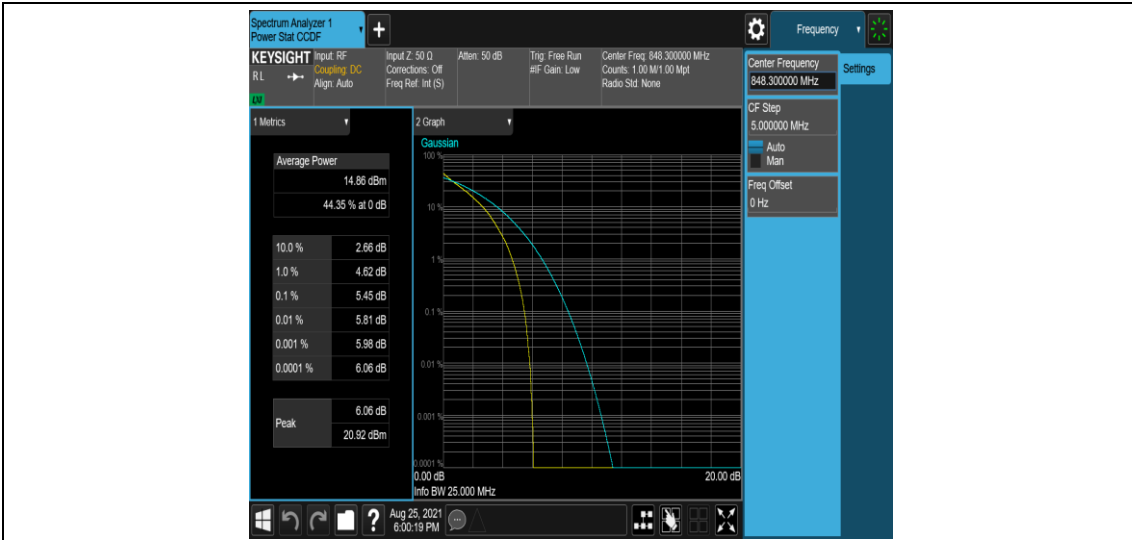
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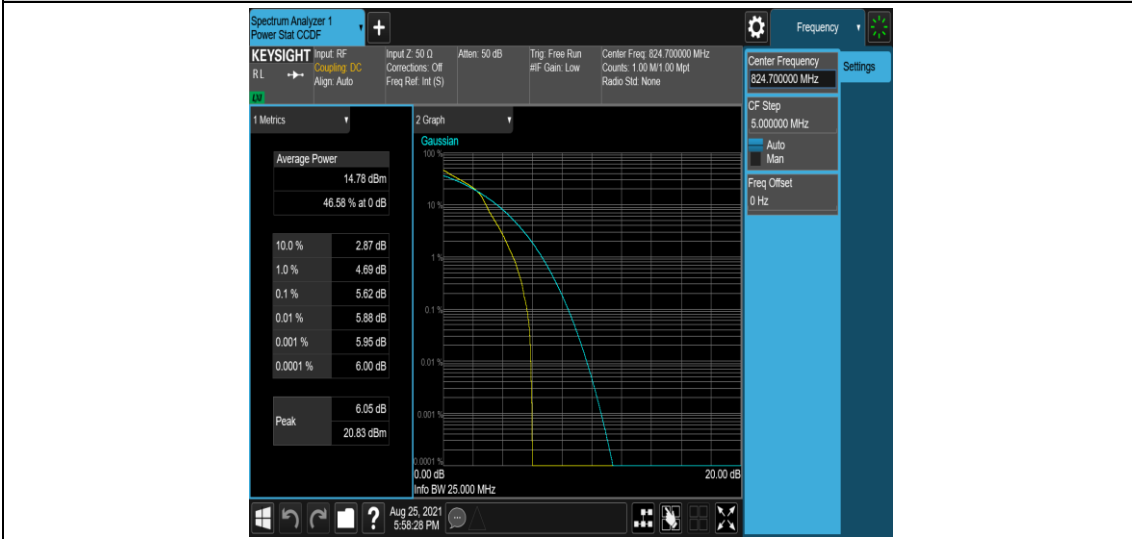
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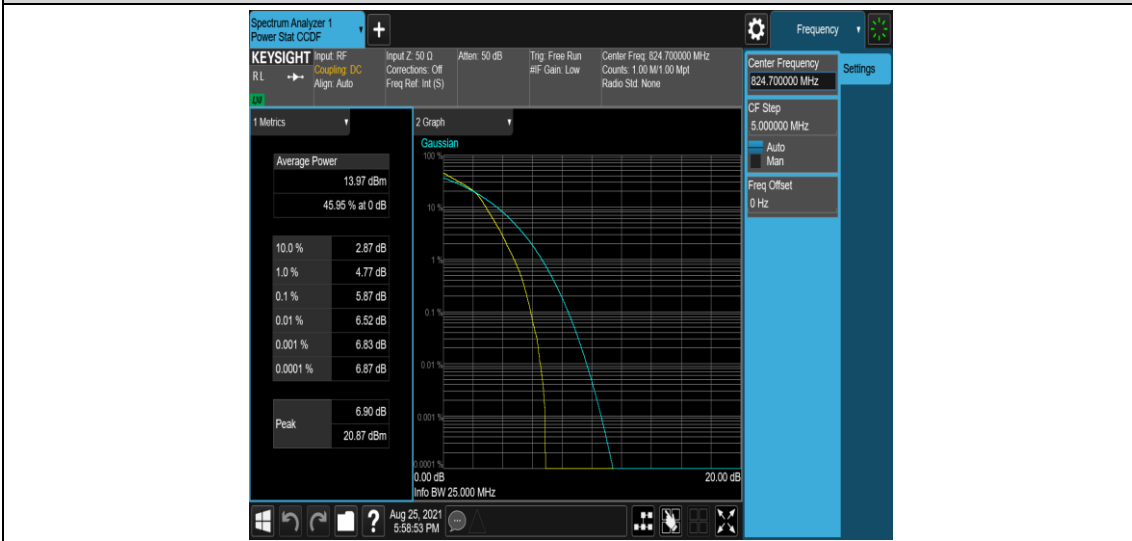
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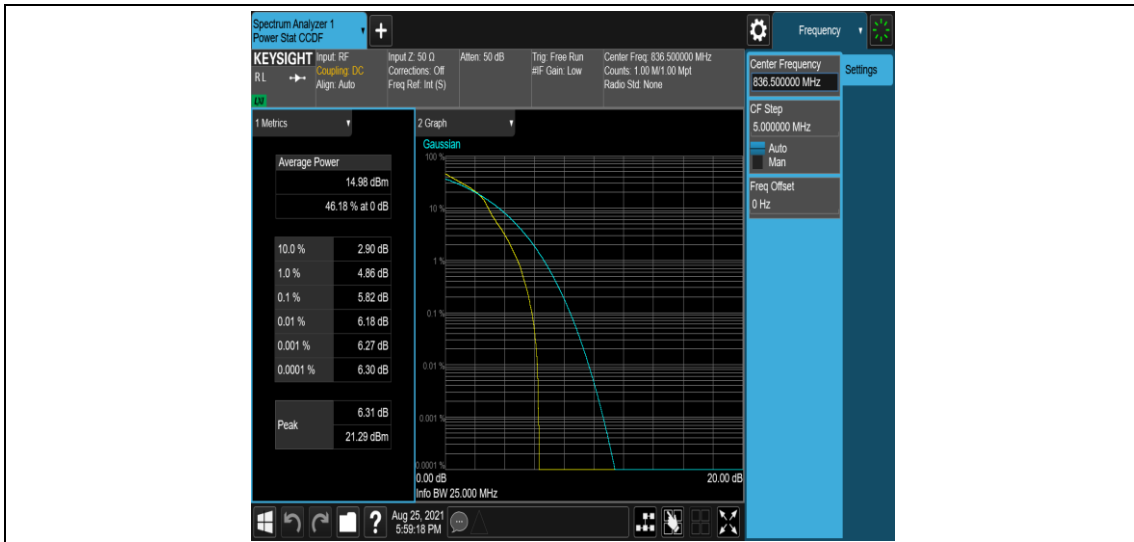
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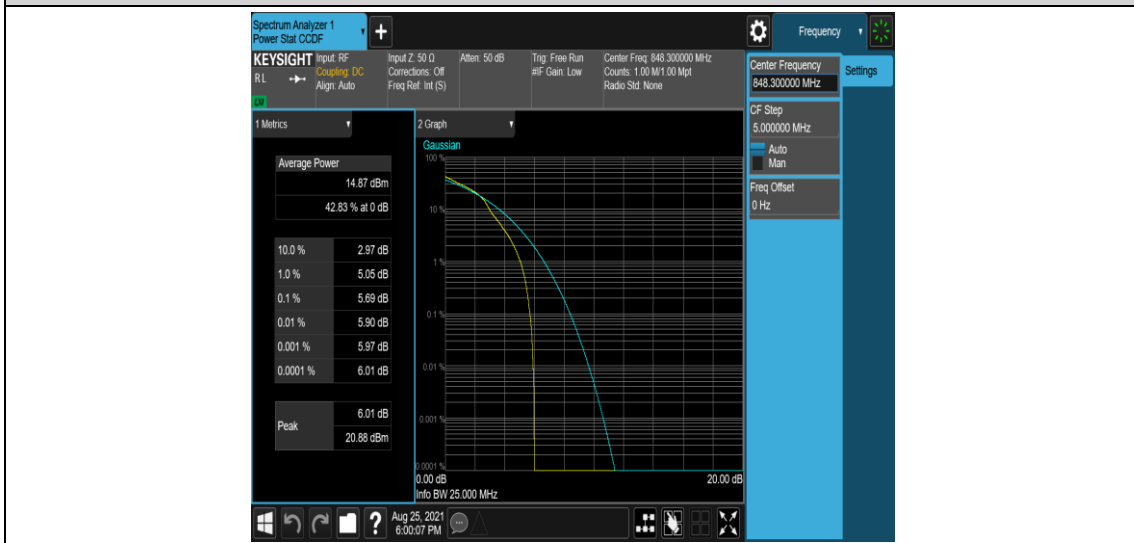
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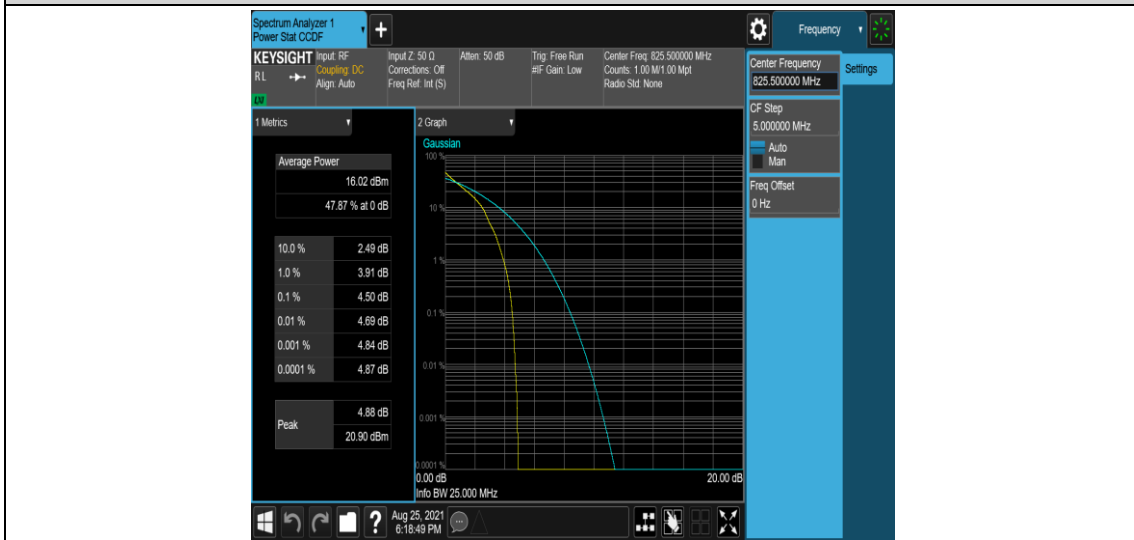
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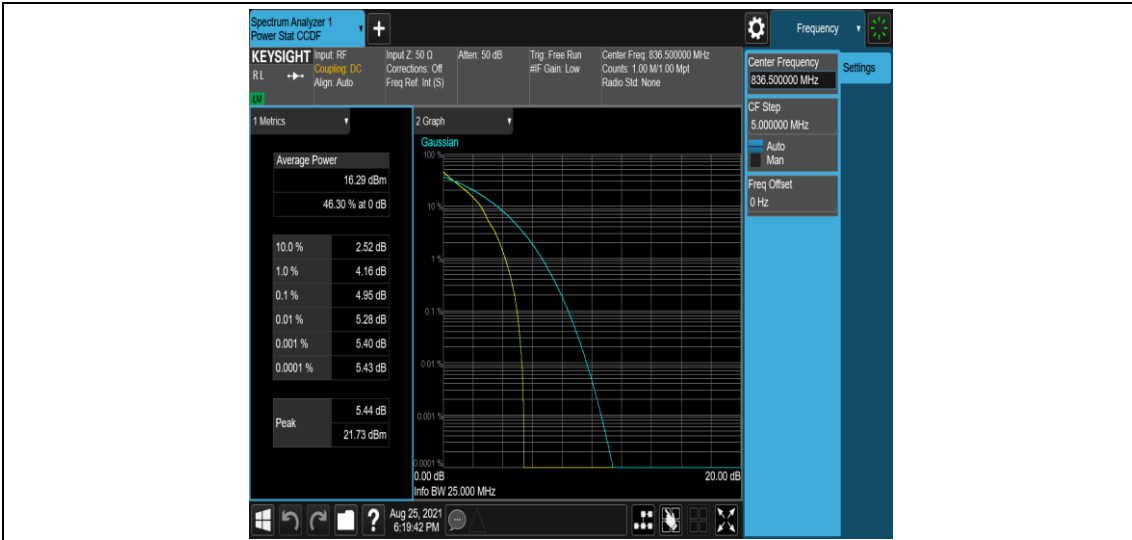
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Band5-3MHz-QPSK-20525-1RB#0



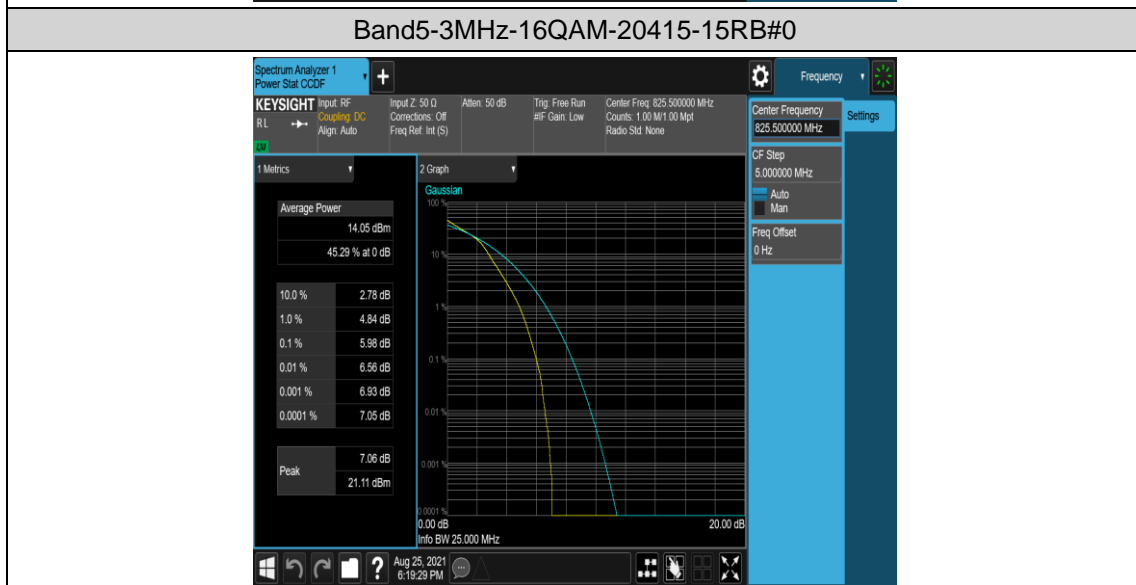
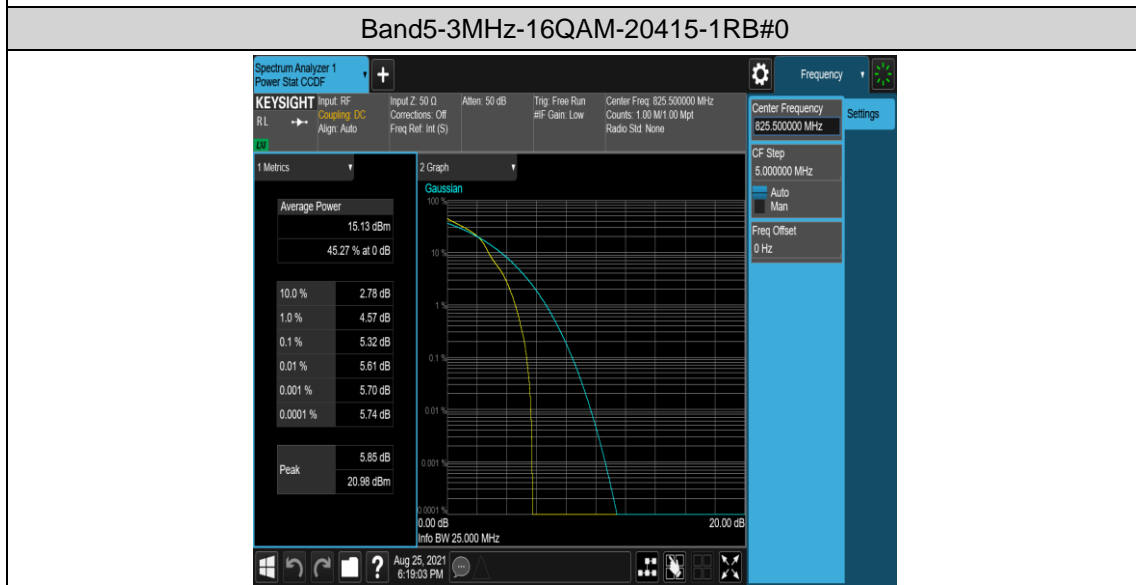
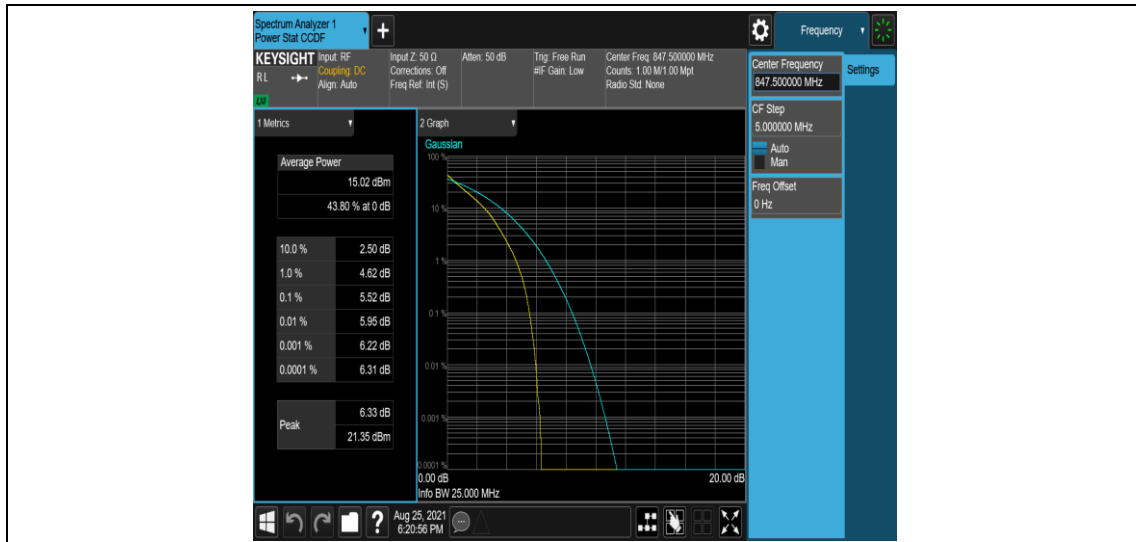
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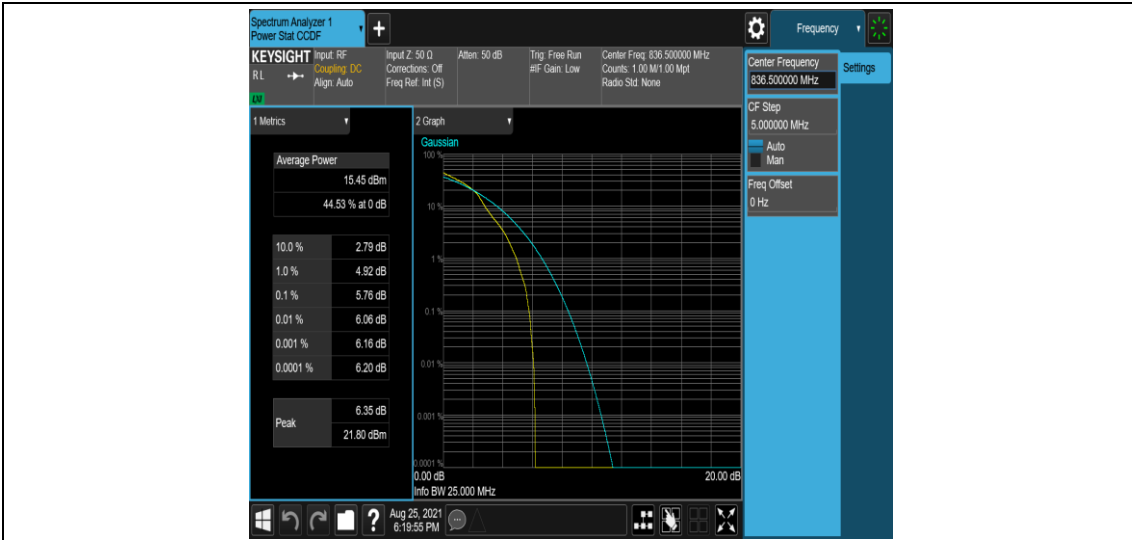


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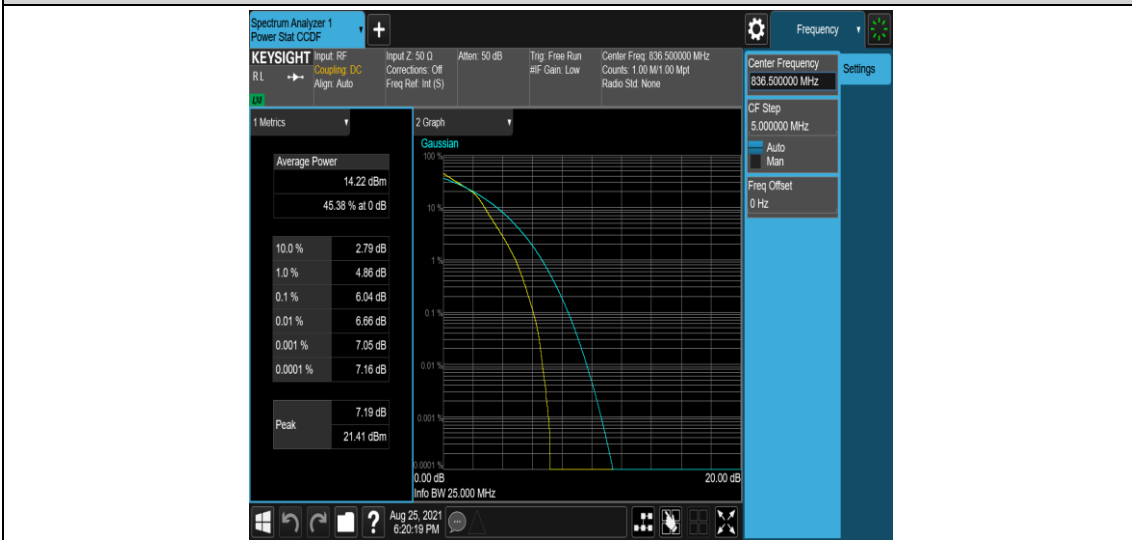


Band5-3MHz-QPSK-20635-15RB#0





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



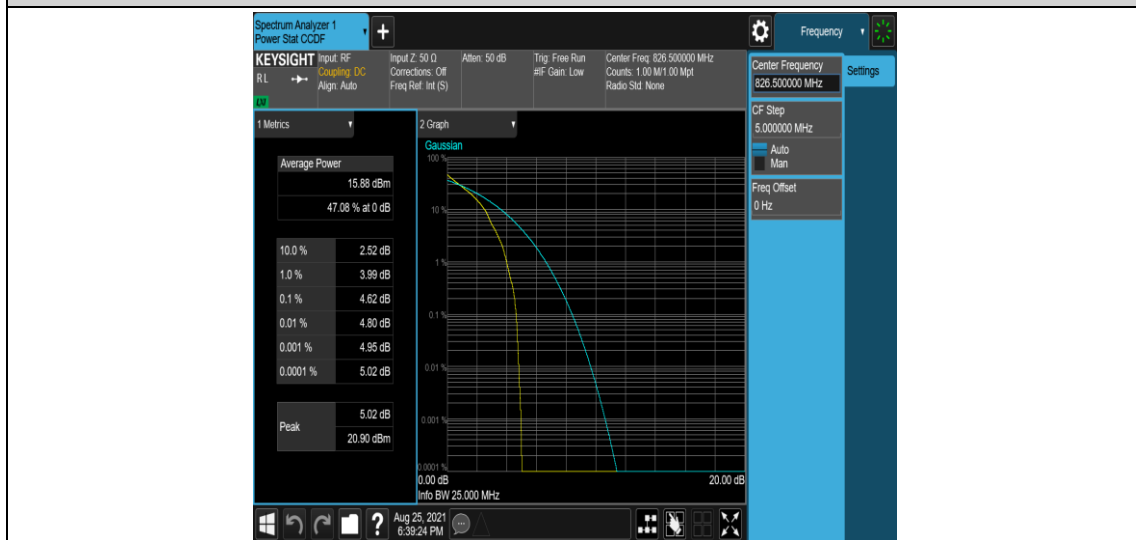
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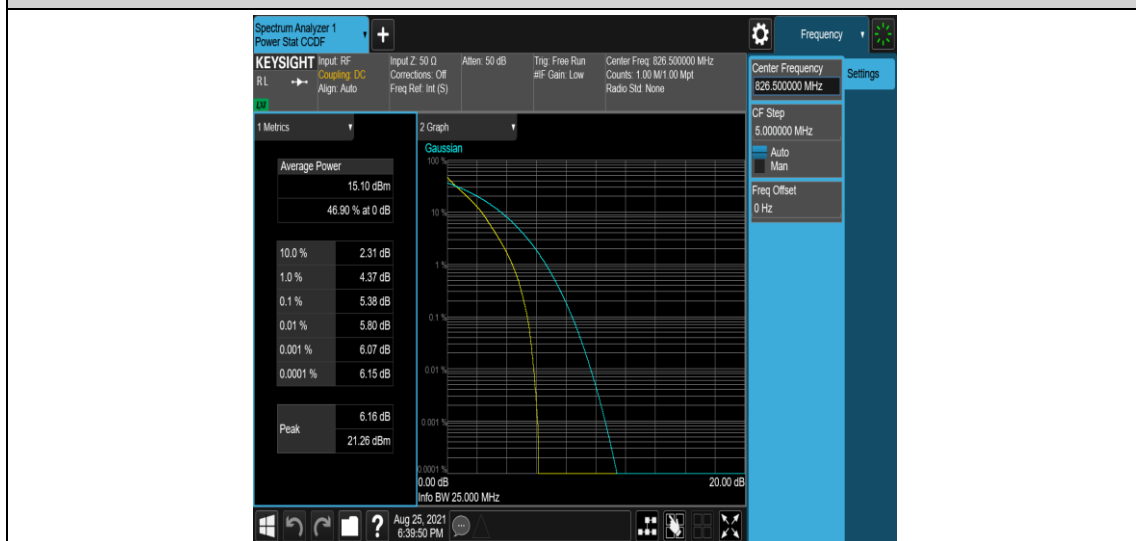
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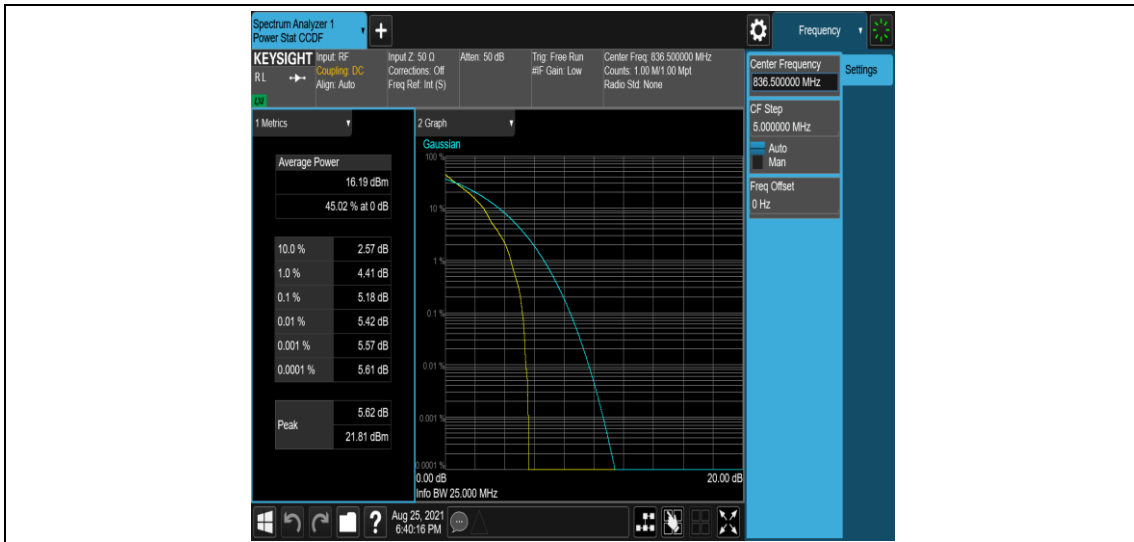
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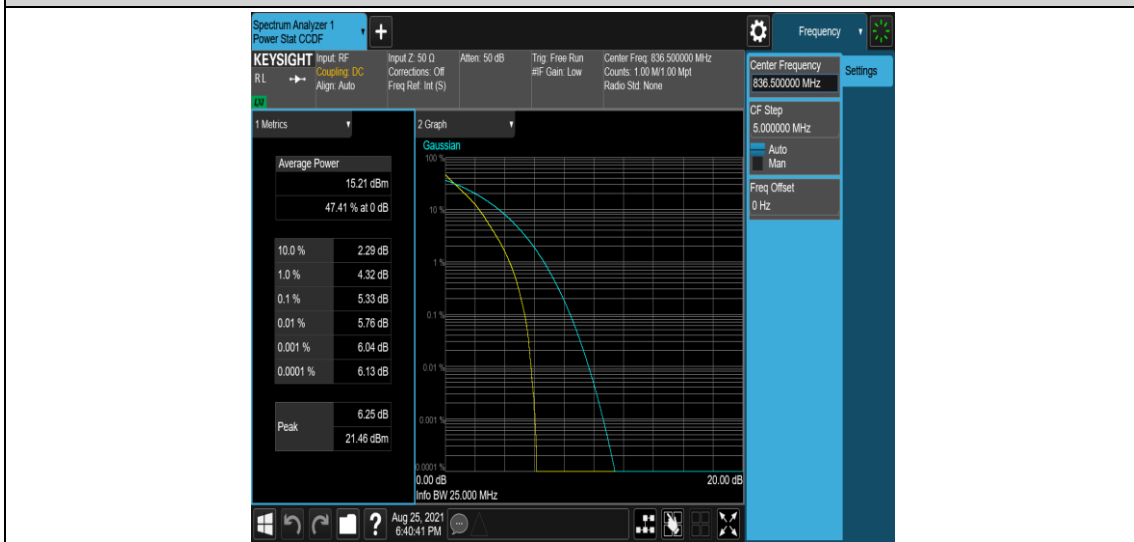
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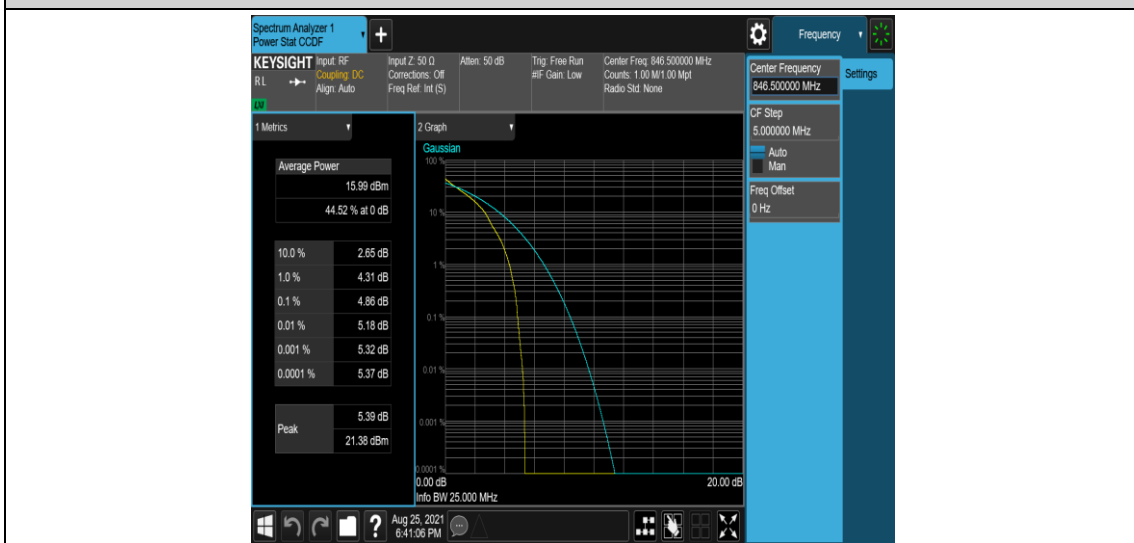
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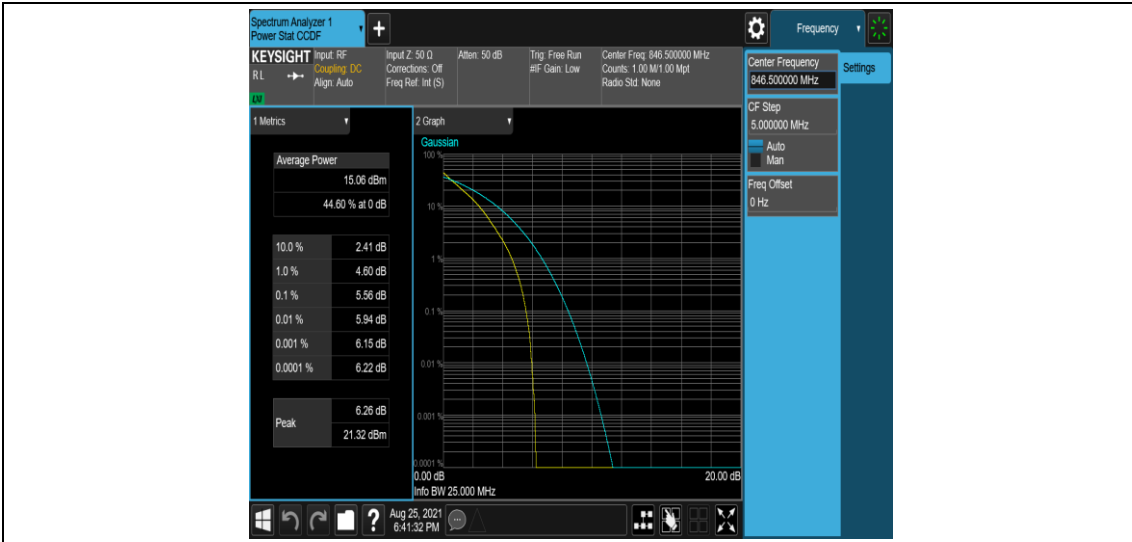
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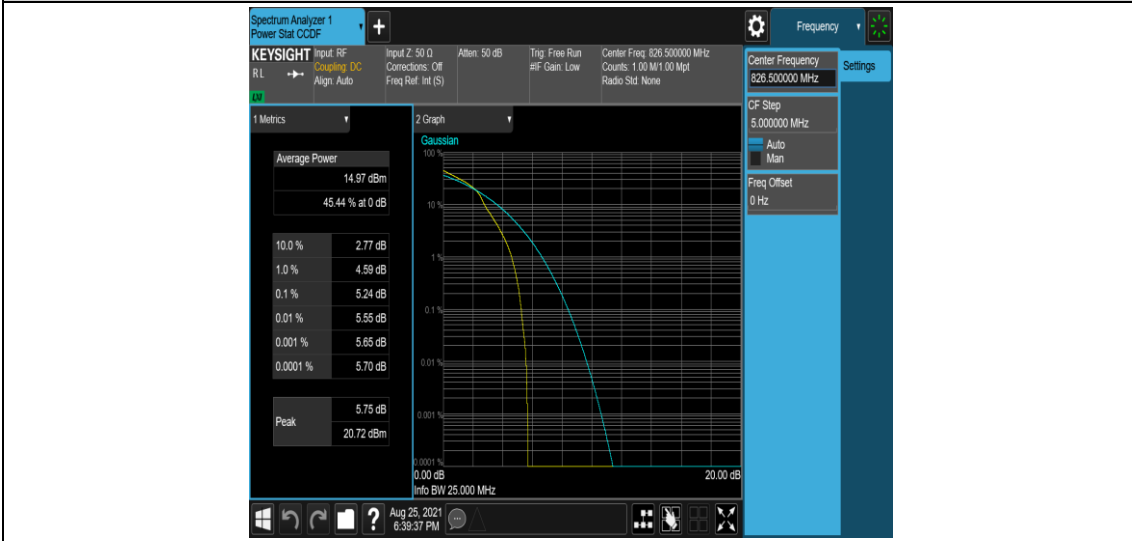
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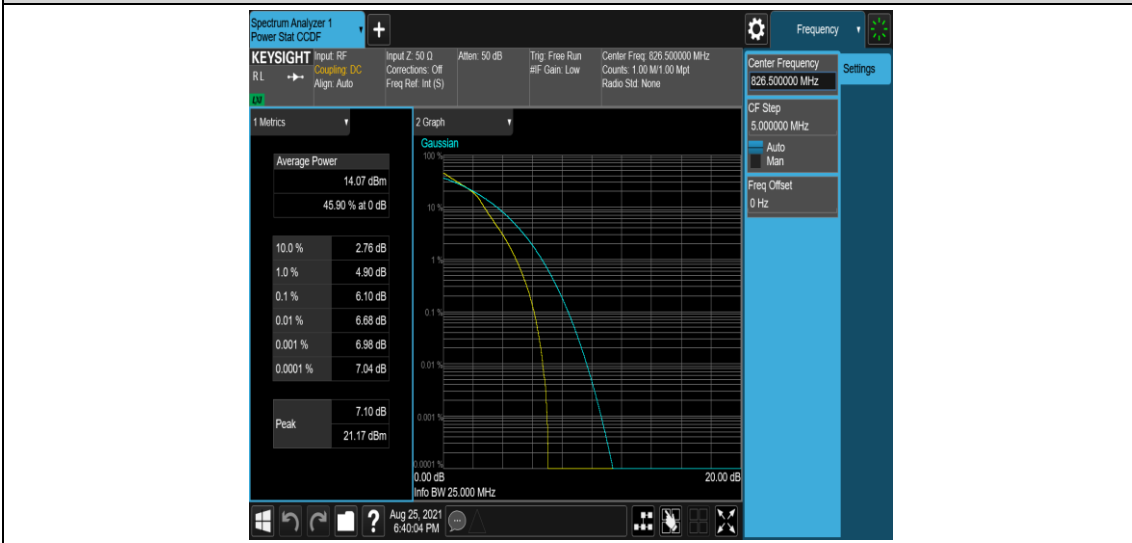
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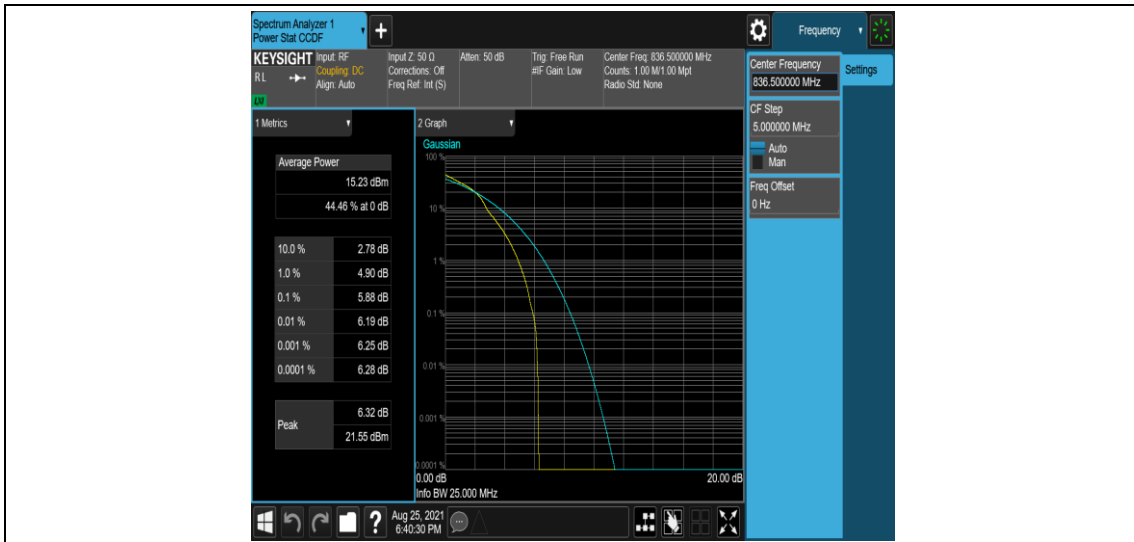
Band5-5MHz-16QAM-20425-1RB#0



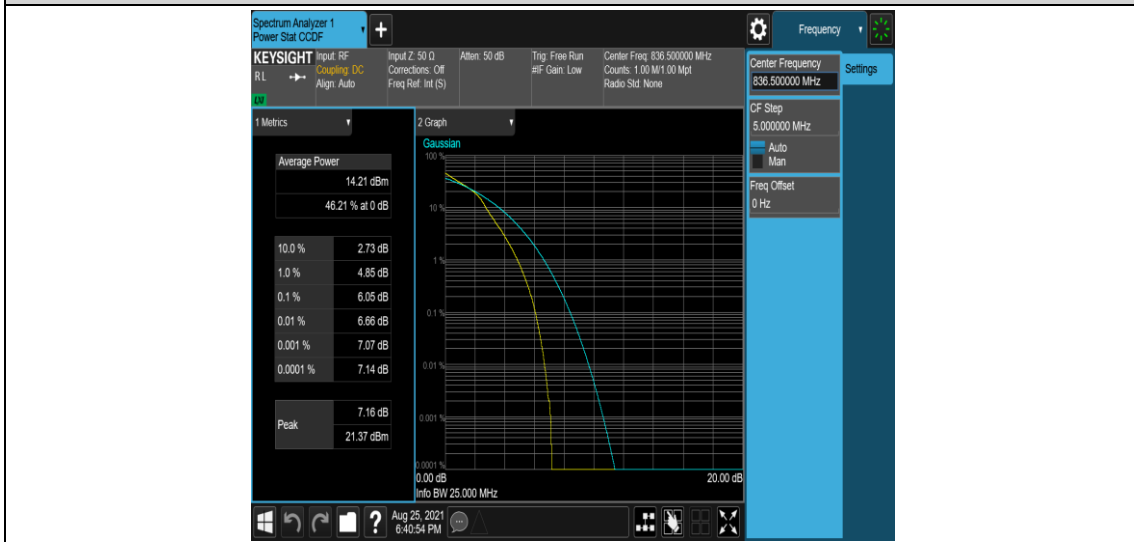
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Band5-5MHz-16QAM-20525-1RB#0



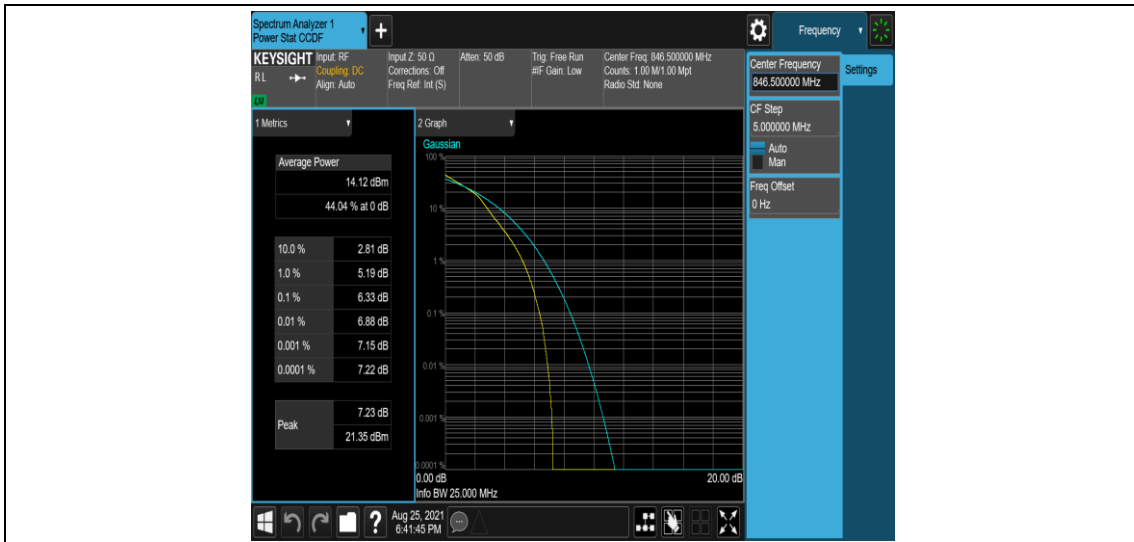
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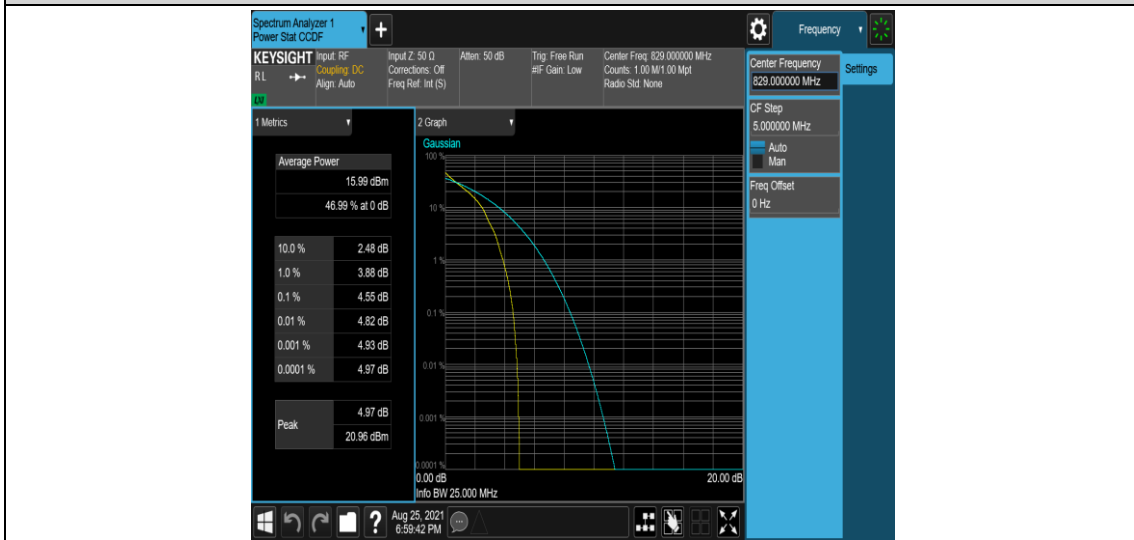
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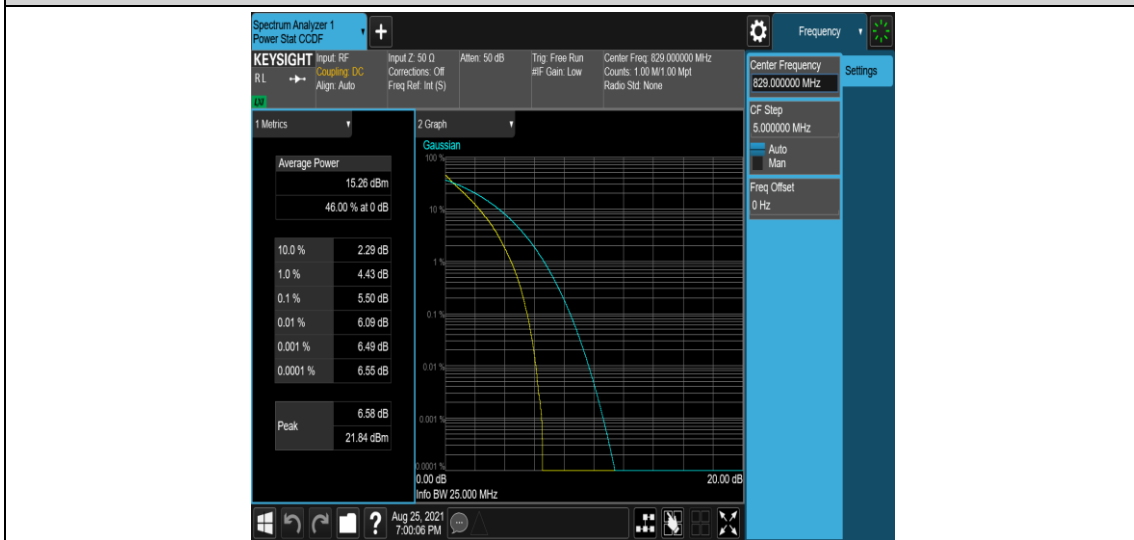
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Band5-10MHz-QPSK-20450-1RB#0



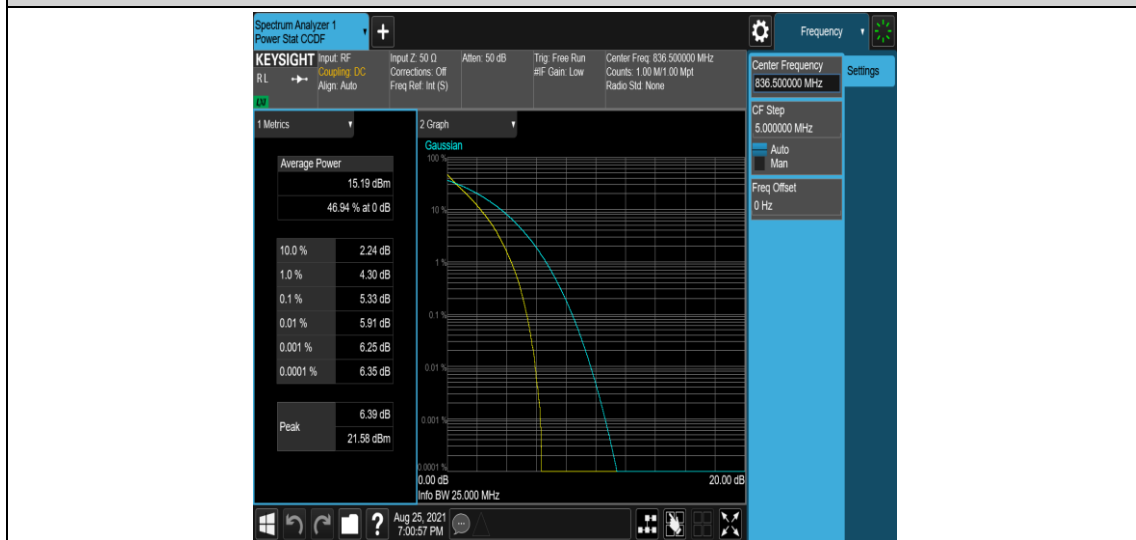
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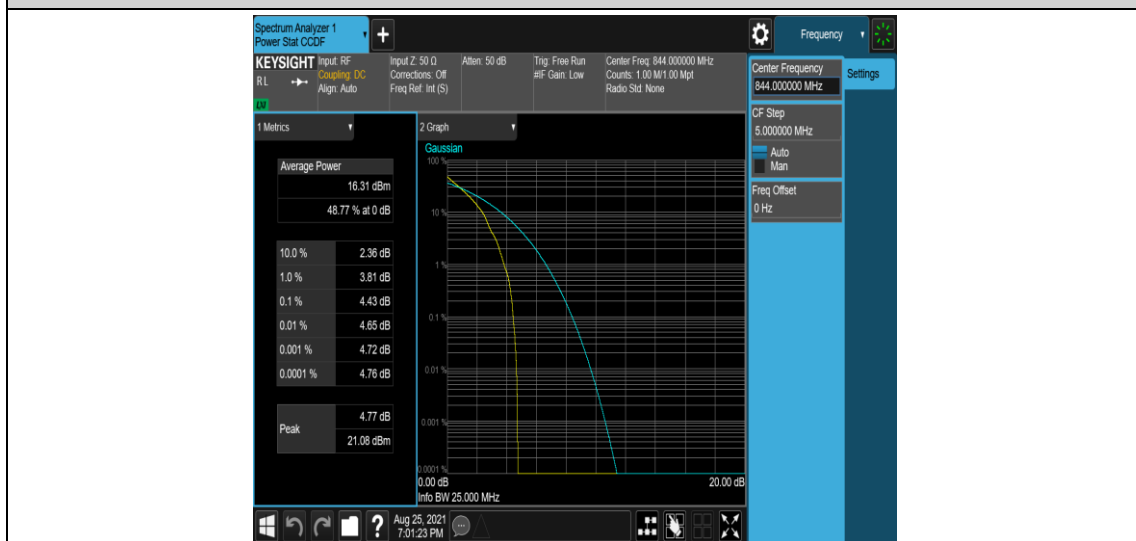
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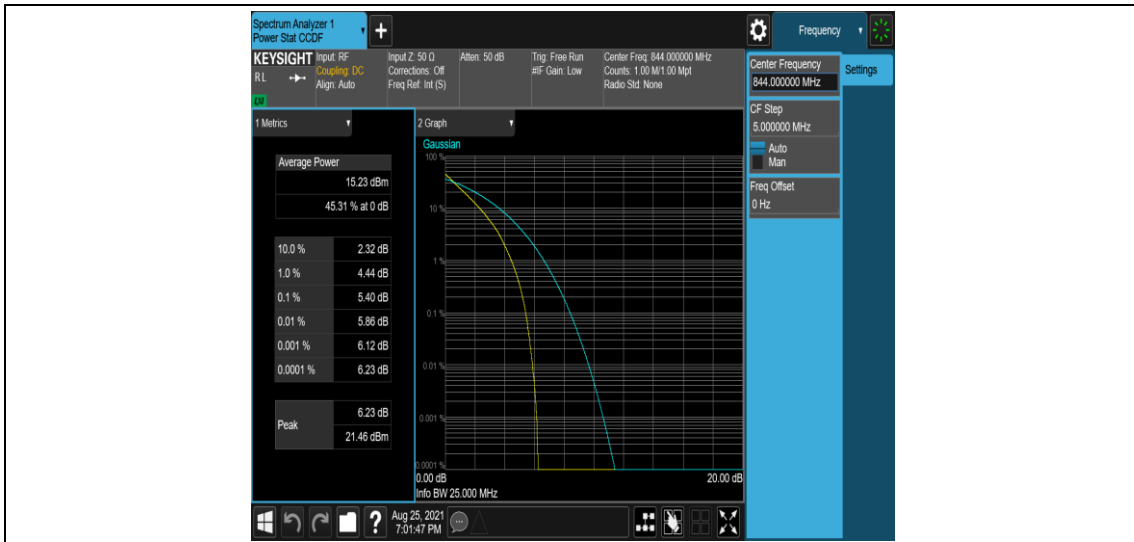
Band5-10MHz-QPSK-20525-50RB#0



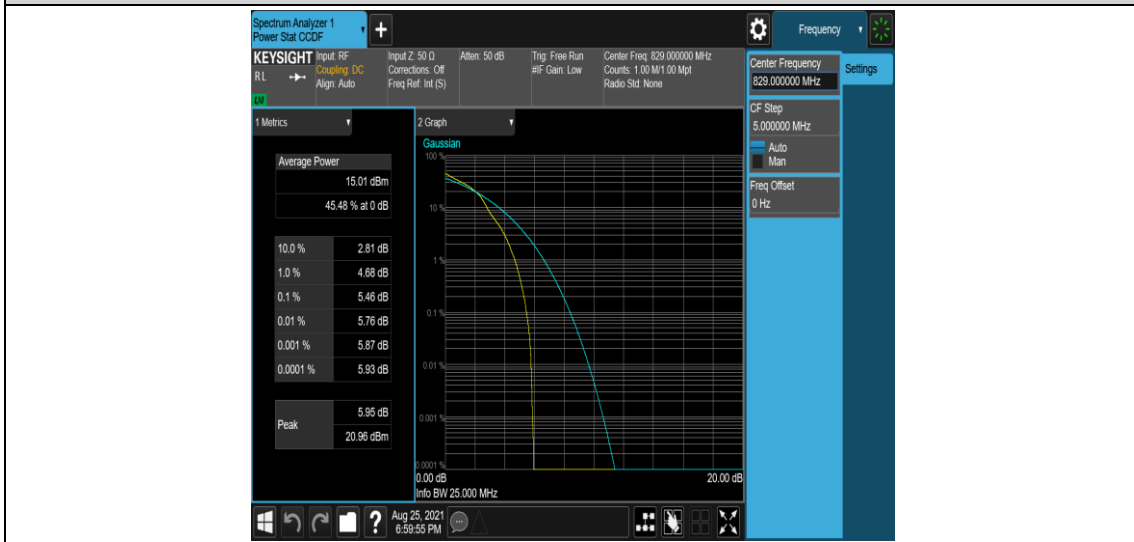
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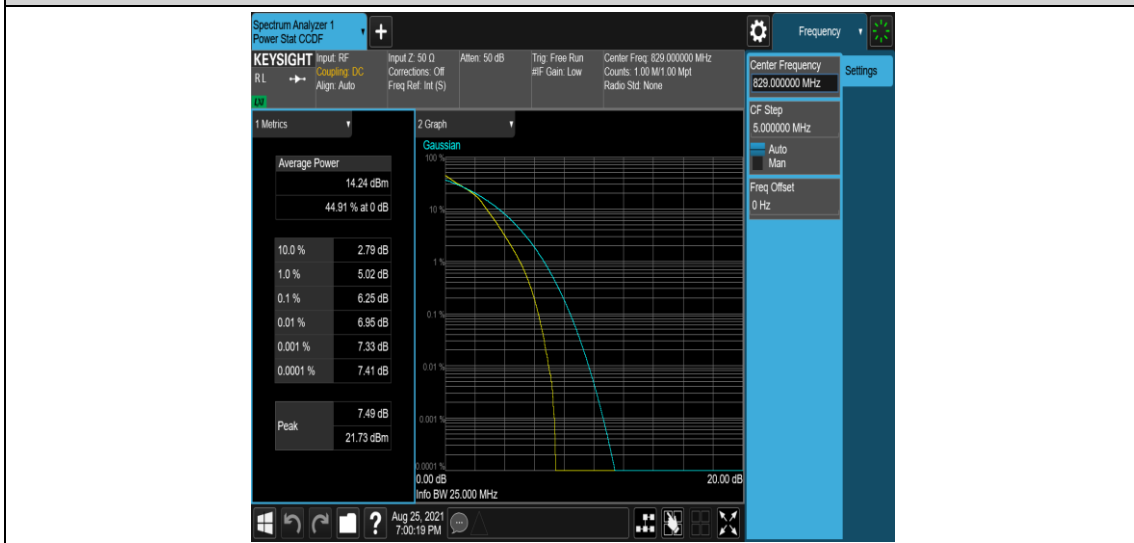
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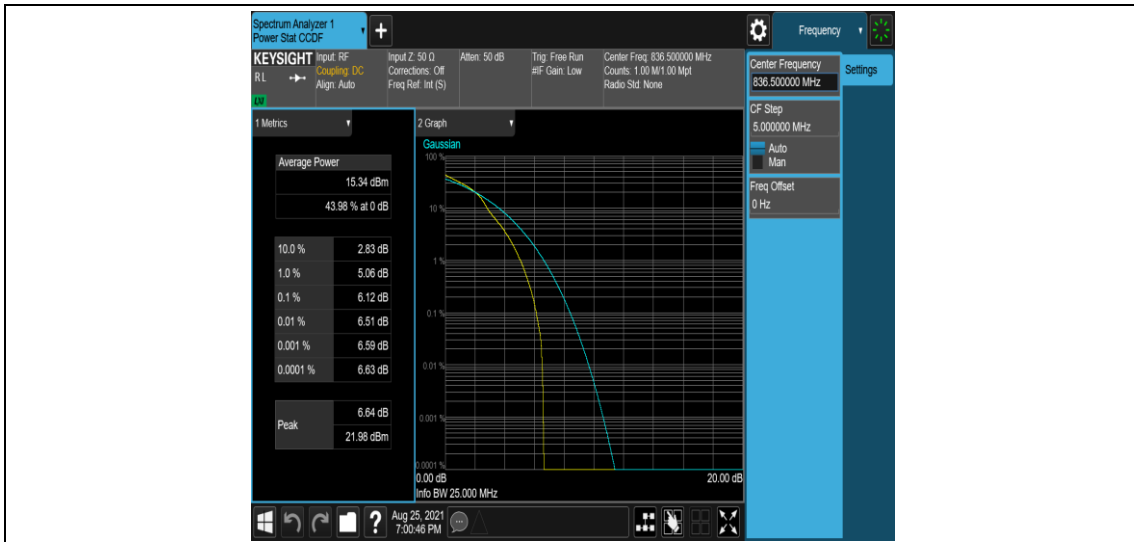
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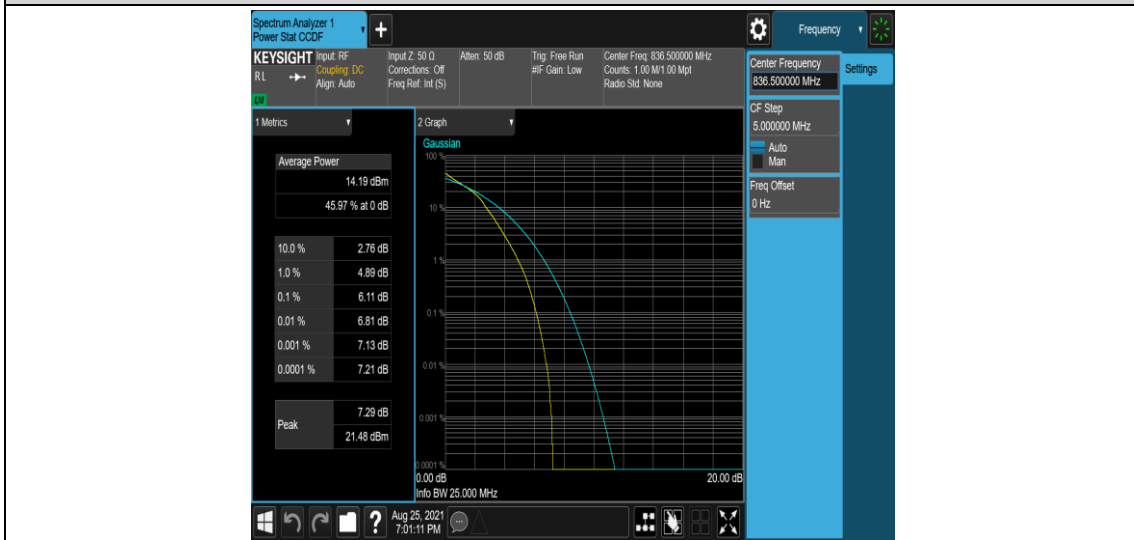
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Band5-10MHz-16QAM-20525-1RB#0



Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-1RB#0



Band5-10MHz-16QAM-20600-50RB#0

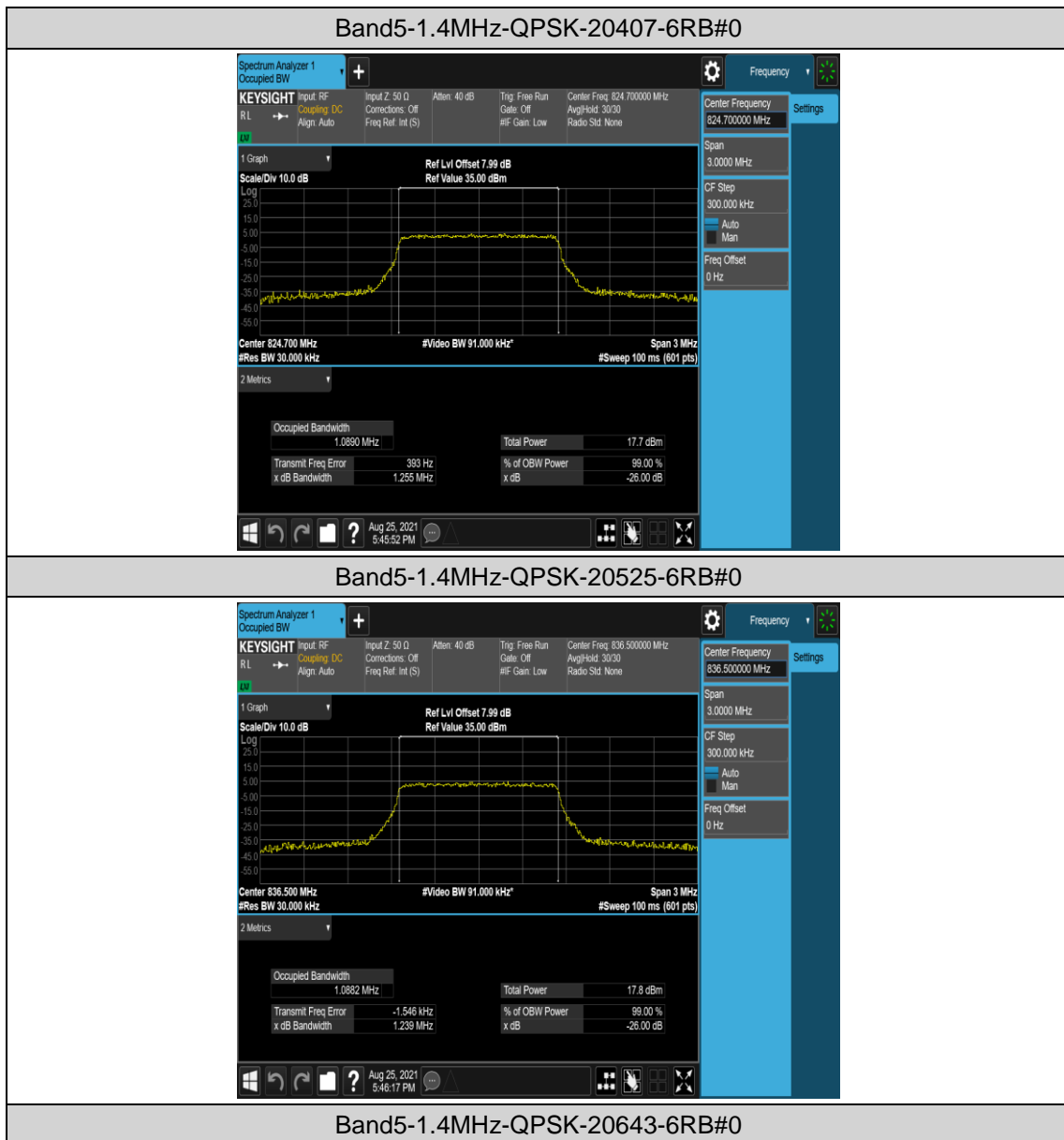


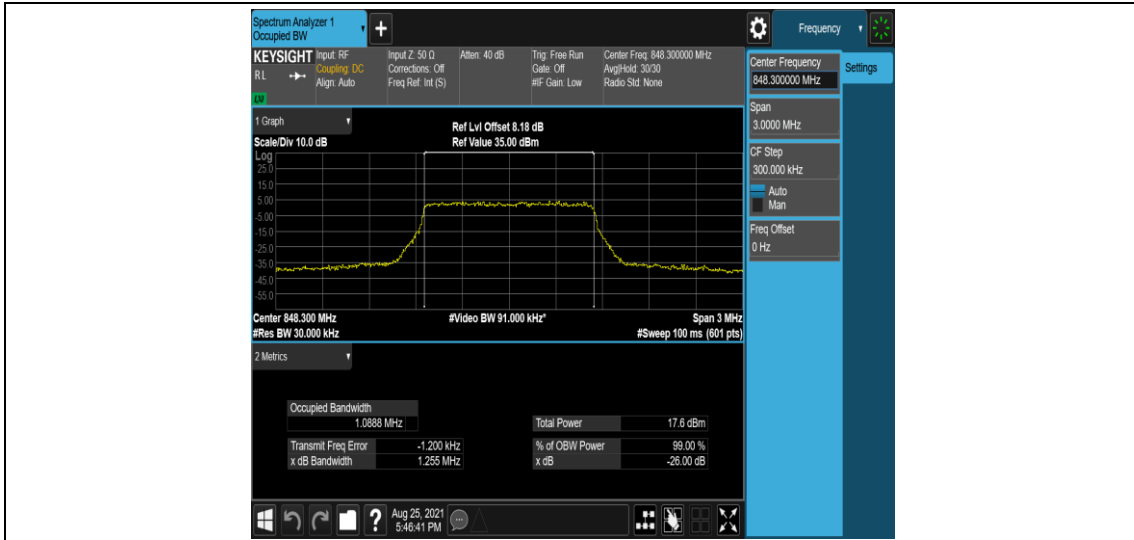
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

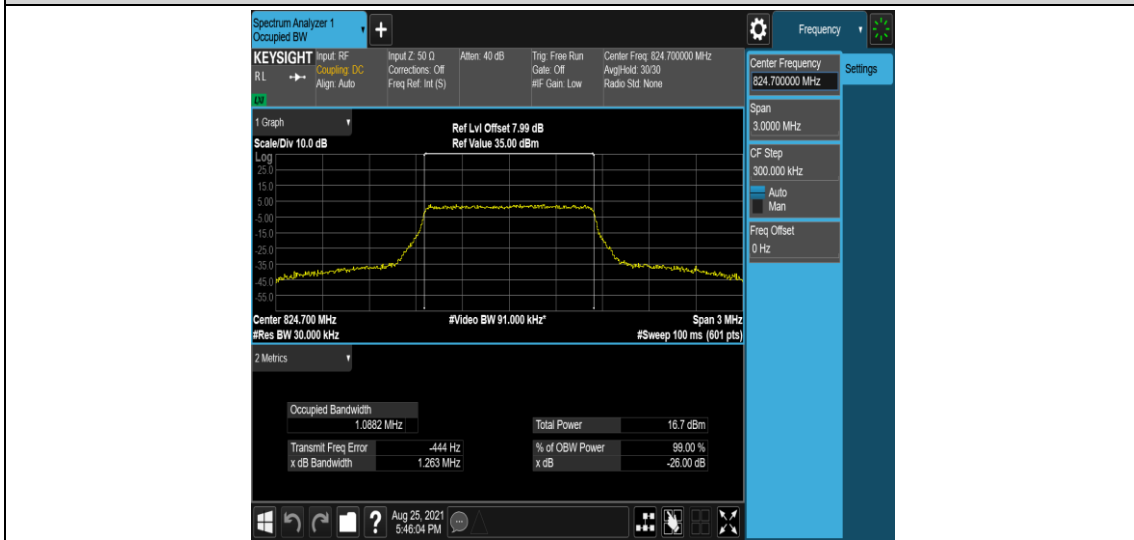
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0890	1.255	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0882	1.239	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0888	1.255	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0882	1.263	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0897	1.257	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0867	1.265	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6873	2.856	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6882	2.856	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6958	2.868	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6838	2.852	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6877	2.851	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6891	2.863	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4928	4.819	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4952	4.825	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5026	4.813	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5040	4.790	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5013	4.790	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4998	4.830	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9899	9.519	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9819	9.522	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9829	9.497	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9751	9.507	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9671	9.505	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9788	9.495	PASS

Test Graphs

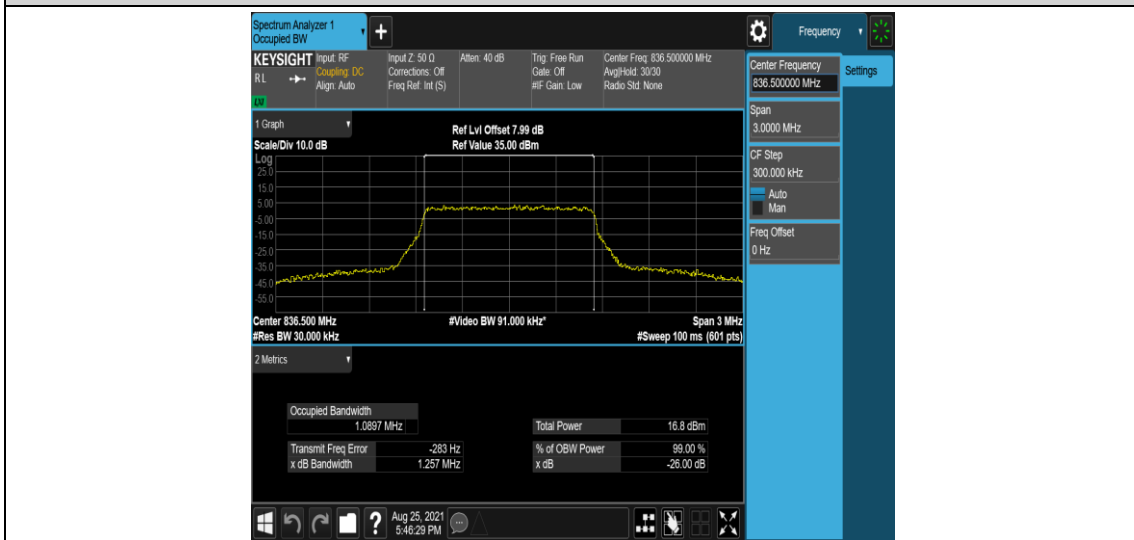




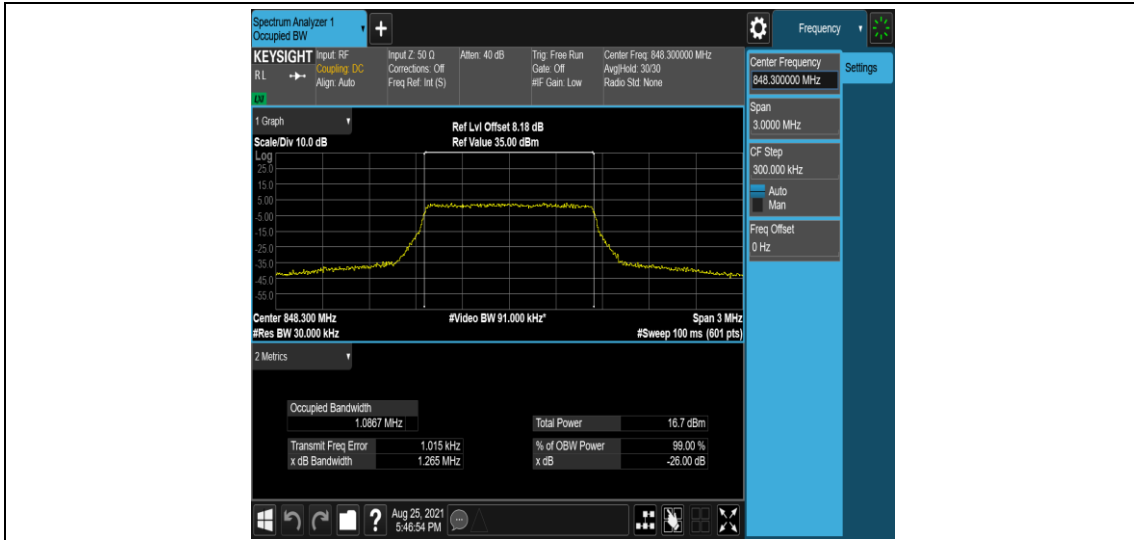
Band5-1.4MHz-16QAM-20407-6RB#0



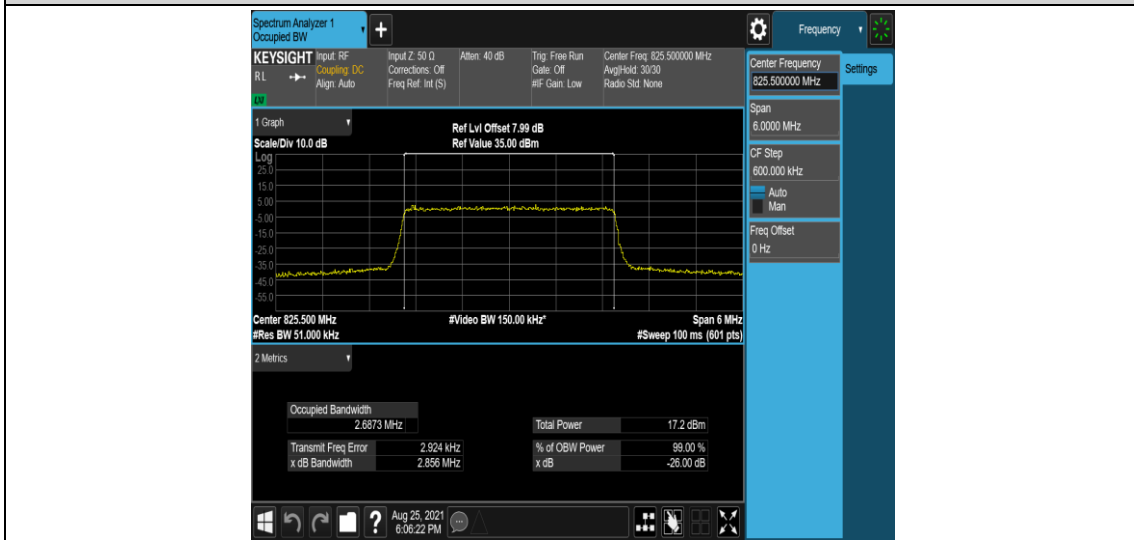
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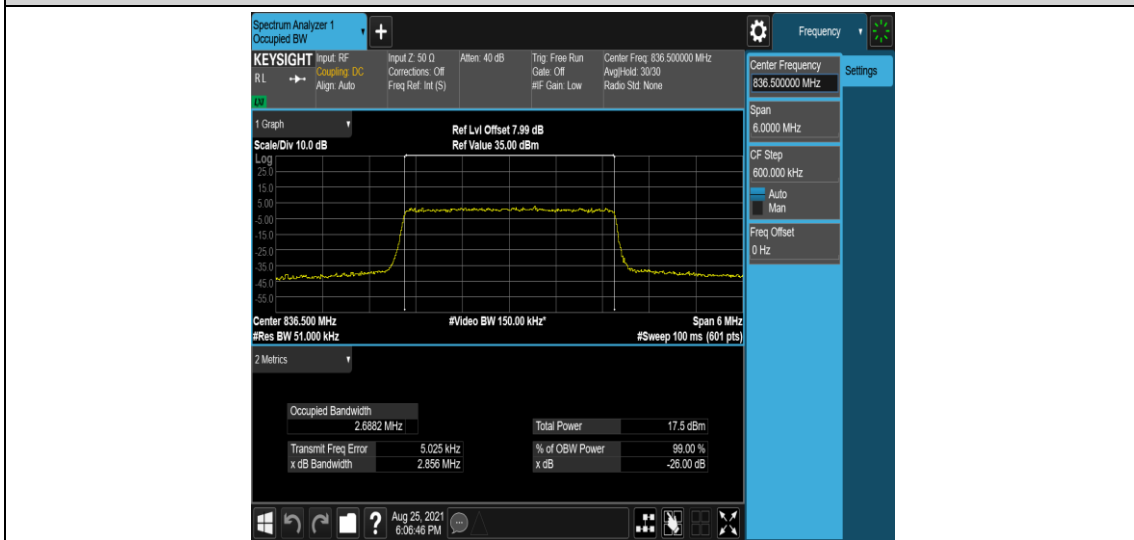
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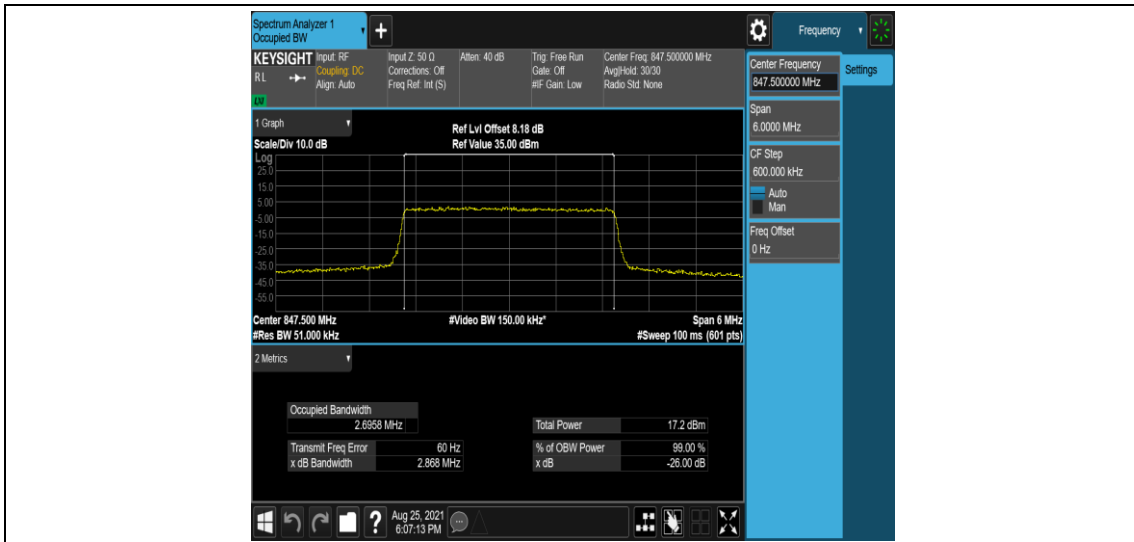
Band5-3MHz-QPSK-20415-15RB#0



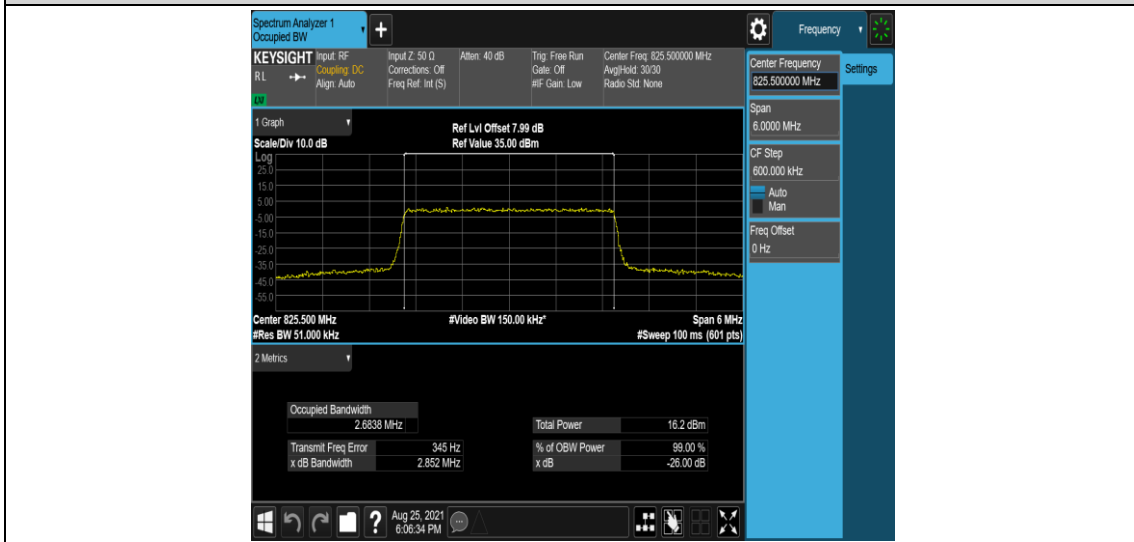
Band5-3MHz-QPSK-20525-15RB#0



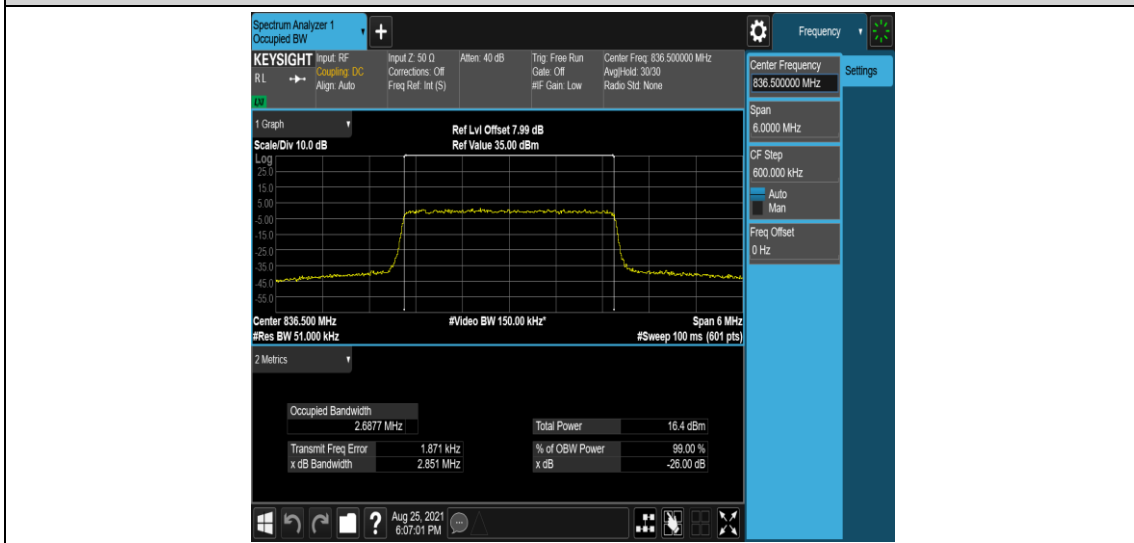
Band5-3MHz-QPSK-20635-15RB#0



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



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



Band5-3MHz-16QAM-20635-15RB#0