

Appendix for Band 7

Product Name: Rugged Phone

Model No: MDT661

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.77	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.48	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.03	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.05	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.04	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.89	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.92	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.86	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.89	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.91	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.88	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.89	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.90	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.74	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.26	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.13	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.14	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.15	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.21	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.12	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.86	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.99	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.88	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.93	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.94	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.80	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.95	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.84	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.92	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.81	PASS

Band7	5MHz	16QAM	21100	12RB#0	20.88	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.87	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.89	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.99	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.99	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.17	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.99	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.10	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.09	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.14	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.19	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.88	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.60	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.78	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.06	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.08	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.90	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.93	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.70	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.11	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.90	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.92	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.91	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.91	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.93	PASS
Band7	10MHz	QPSK	21400	1RB#0	21.26	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.47	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.18	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.79	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.74	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.27	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.17	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.95	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.04	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.69	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.04	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.02	PASS

Band7	10MHz	16QAM	20800	25RB#25	20.82	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.88	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.13	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.91	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.96	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.94	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.97	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.96	PASS
Band7	10MHz	16QAM	21400	1RB#0	20.76	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.91	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.09	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.94	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.91	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.26	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.15	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.87	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.46	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.59	PASS
Band7	15MHz	QPSK	20825	38RB#0	21.92	PASS
Band7	15MHz	QPSK	20825	38RB#18	21.89	PASS
Band7	15MHz	QPSK	20825	38RB#37	21.31	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.06	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.54	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.92	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.81	PASS
Band7	15MHz	QPSK	21100	38RB#0	21.81	PASS
Band7	15MHz	QPSK	21100	38RB#18	21.96	PASS
Band7	15MHz	QPSK	21100	38RB#37	21.82	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.96	PASS
Band7	15MHz	QPSK	21375	1RB#0	21.08	PASS
Band7	15MHz	QPSK	21375	1RB#38	21.67	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.17	PASS
Band7	15MHz	QPSK	21375	38RB#0	20.78	PASS
Band7	15MHz	QPSK	21375	38RB#18	21.13	PASS
Band7	15MHz	QPSK	21375	38RB#37	22.02	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.98	PASS

Band7	15MHz	16QAM	20825	1RB#0	21.94	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.88	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.48	PASS
Band7	15MHz	16QAM	20825	38RB#0	21.92	PASS
Band7	15MHz	16QAM	20825	38RB#18	21.90	PASS
Band7	15MHz	16QAM	20825	38RB#37	21.24	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.98	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.83	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.97	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.83	PASS
Band7	15MHz	16QAM	21100	38RB#0	21.82	PASS
Band7	15MHz	16QAM	21100	38RB#18	21.99	PASS
Band7	15MHz	16QAM	21100	38RB#37	21.84	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.89	PASS
Band7	15MHz	16QAM	21375	1RB#0	20.91	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.18	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.05	PASS
Band7	15MHz	16QAM	21375	38RB#0	20.75	PASS
Band7	15MHz	16QAM	21375	38RB#18	21.12	PASS
Band7	15MHz	16QAM	21375	38RB#37	22.03	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.24	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.75	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.47	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.66	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.07	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.05	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.47	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.92	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.08	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.20	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.68	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.75	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.78	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.80	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.80	PASS
Band7	20MHz	QPSK	21350	1RB#0	21.43	PASS
Band7	20MHz	QPSK	21350	1RB#49	21.49	PASS

Band7	20MHz	QPSK	21350	1RB#99	23.10	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.18	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.12	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.27	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.75	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.67	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.84	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.42	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.10	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.10	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.67	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.97	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.50	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.08	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.57	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.79	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.79	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.88	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.86	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.23	PASS
Band7	20MHz	16QAM	21350	1RB#49	20.88	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.81	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.03	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.06	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.30	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.16	PASS

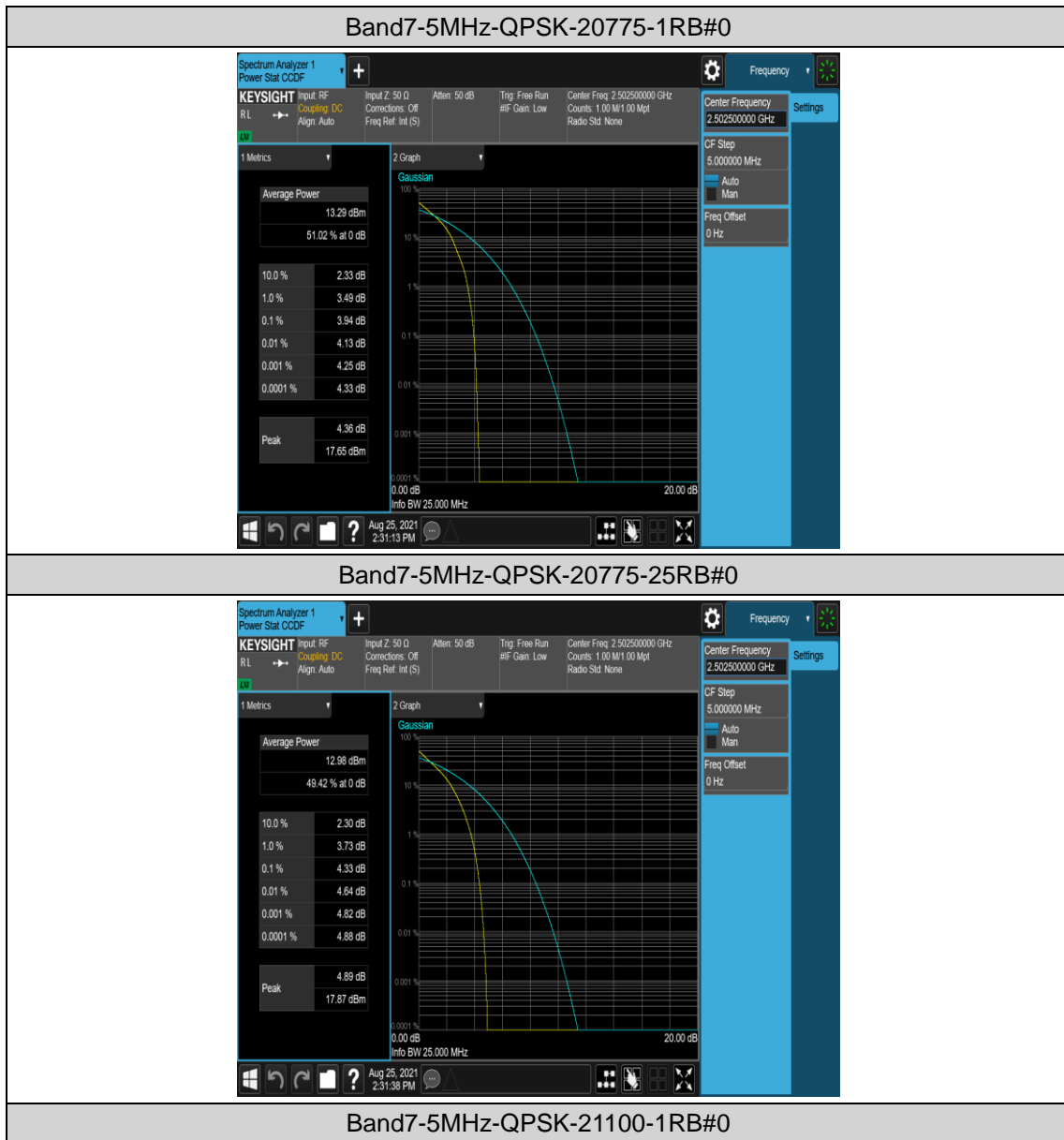
Appendix B: Peak-to-Average Ratio(CCDF)

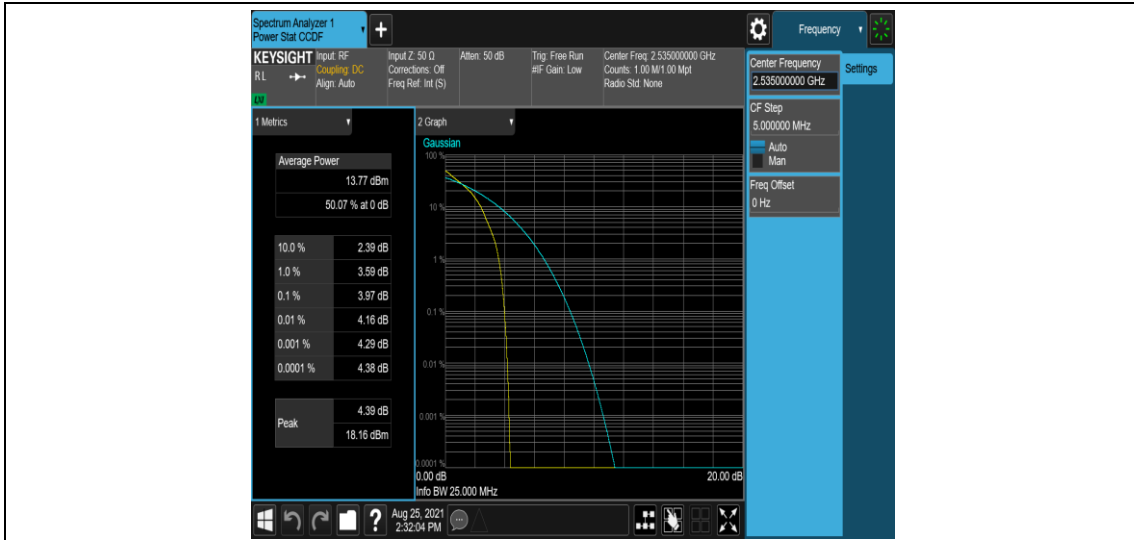
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	3.94	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	4.33	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	3.97	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.98	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	2.93	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	3.85	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	4.46	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.29	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	4.89	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.79	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	3.64	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.84	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	3.85	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	4.28	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	3.86	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	4.91	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	3.08	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	3.85	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	4.40	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.14	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	4.44	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.78	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	3.71	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	4.86	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	3.79	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	4.59	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	3.69	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.19	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	3.25	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	4.18	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	4.52	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	5.30	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	4.17	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	5.95	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	3.59	13	PASS

Band7	15MHz	16QAM	21375	75RB#0	4.94	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	3.94	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	4.69	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	3.78	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.10	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	3.81	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.54	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	4.49	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.40	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	4.04	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.92	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	3.95	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.18	13	PASS

Test Graphs





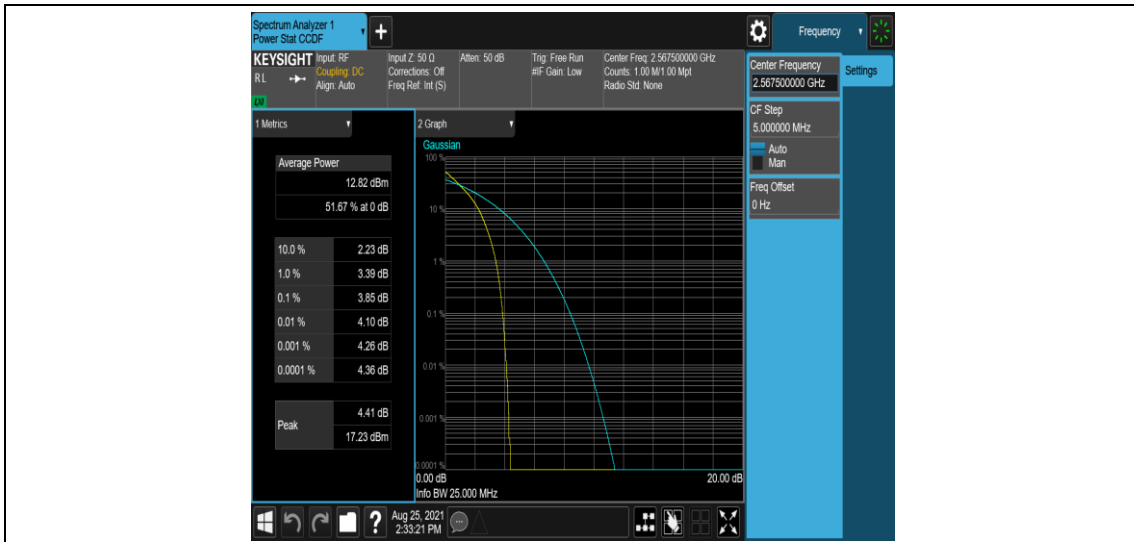
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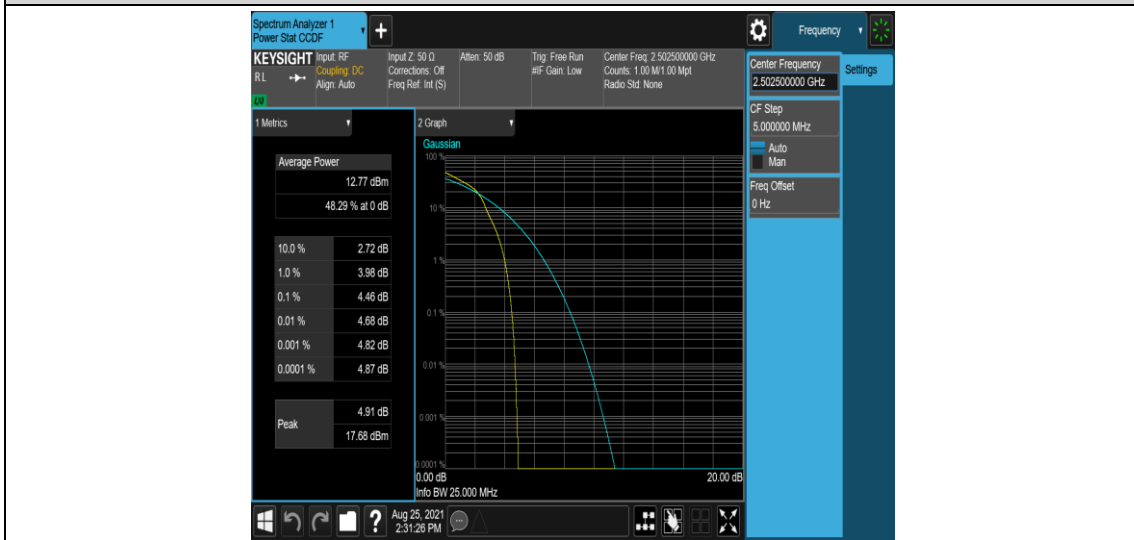
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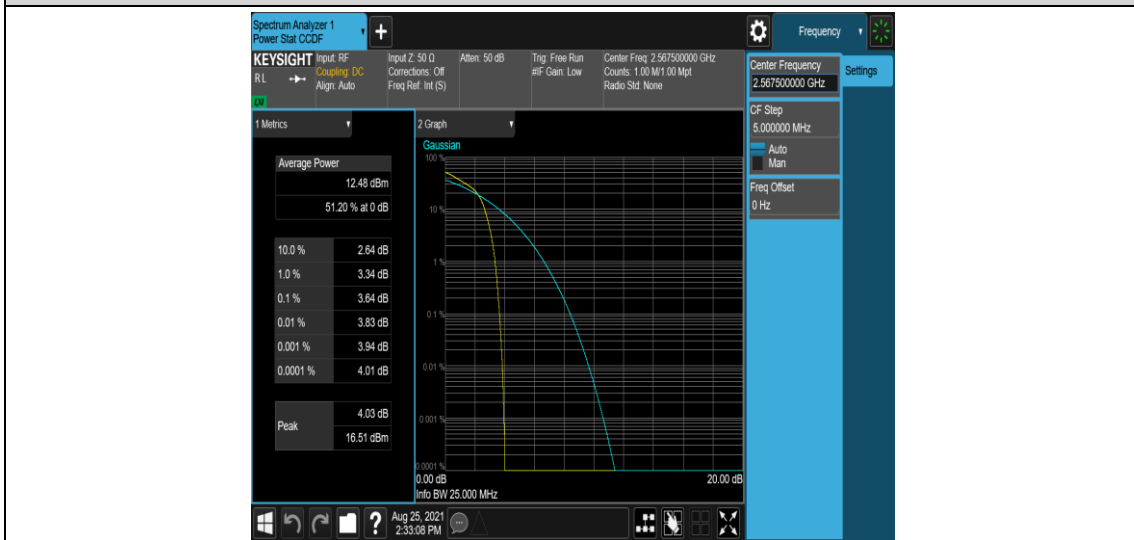
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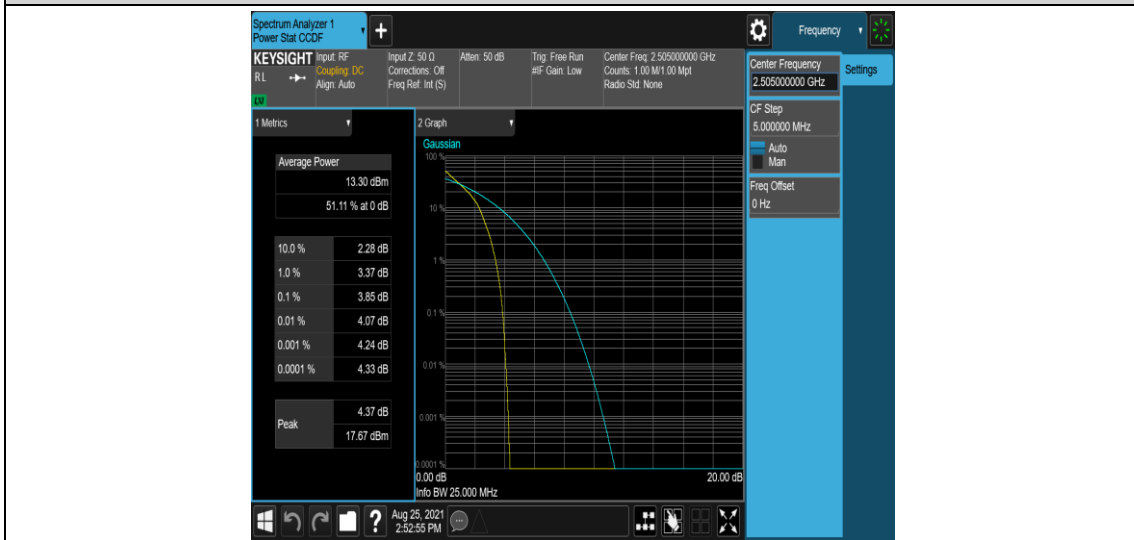
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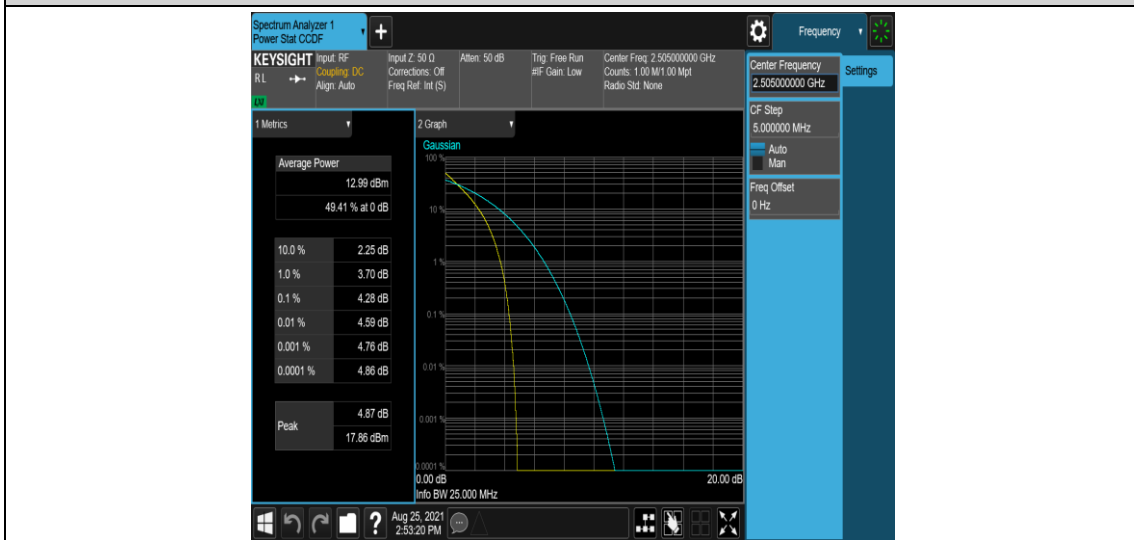
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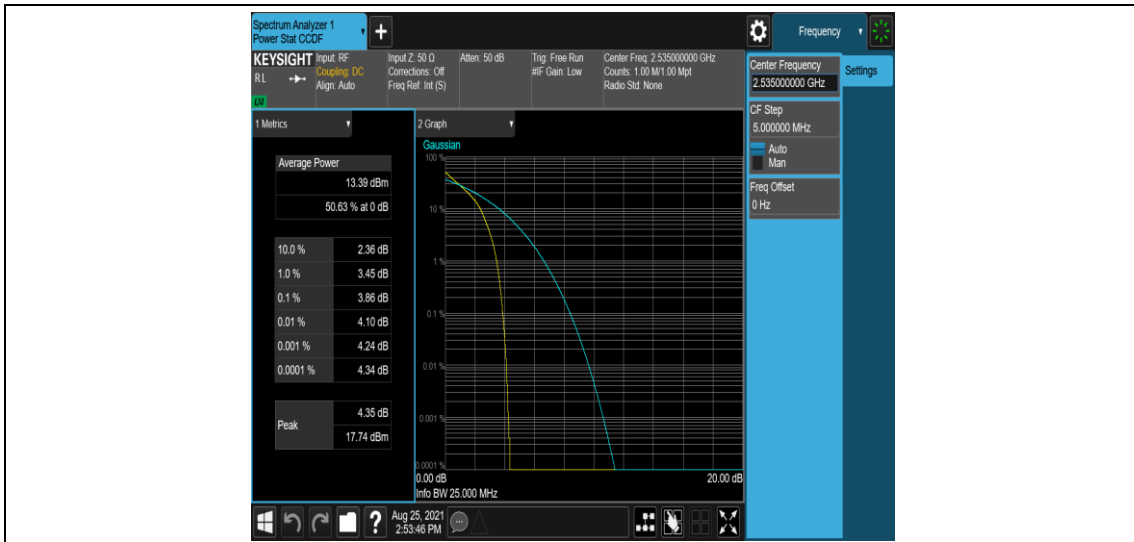
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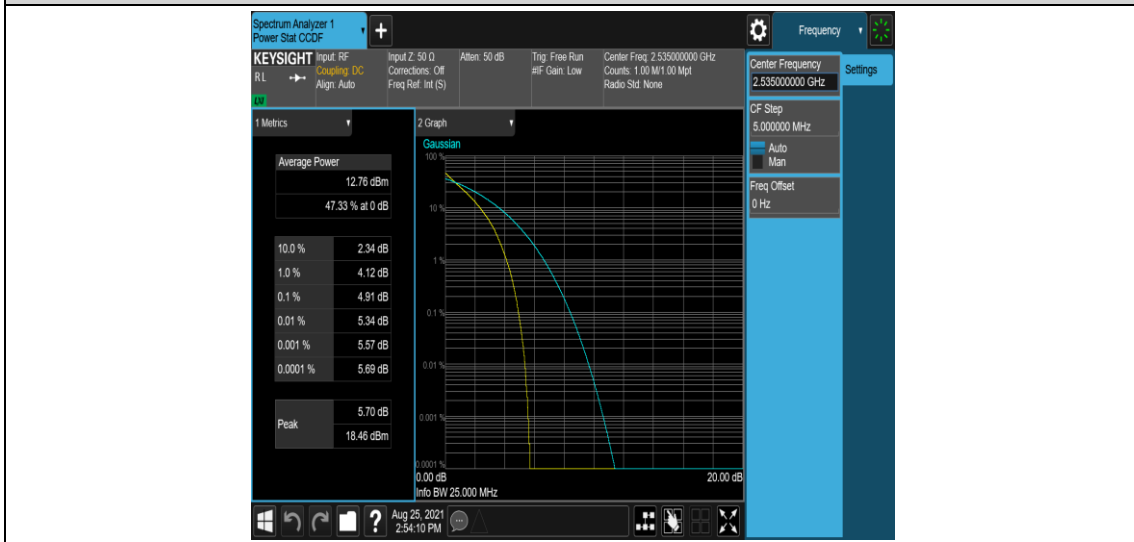
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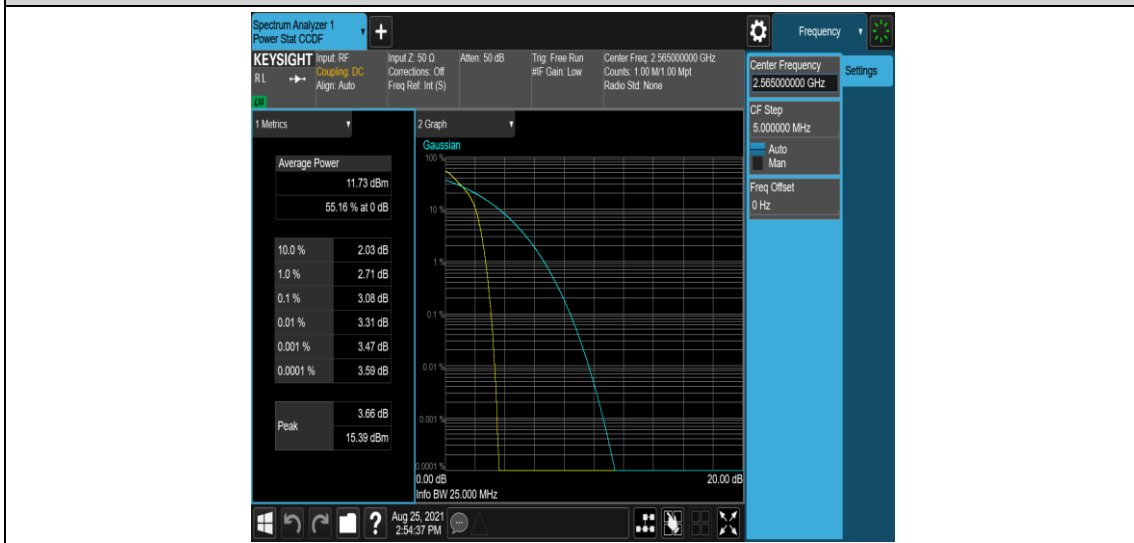
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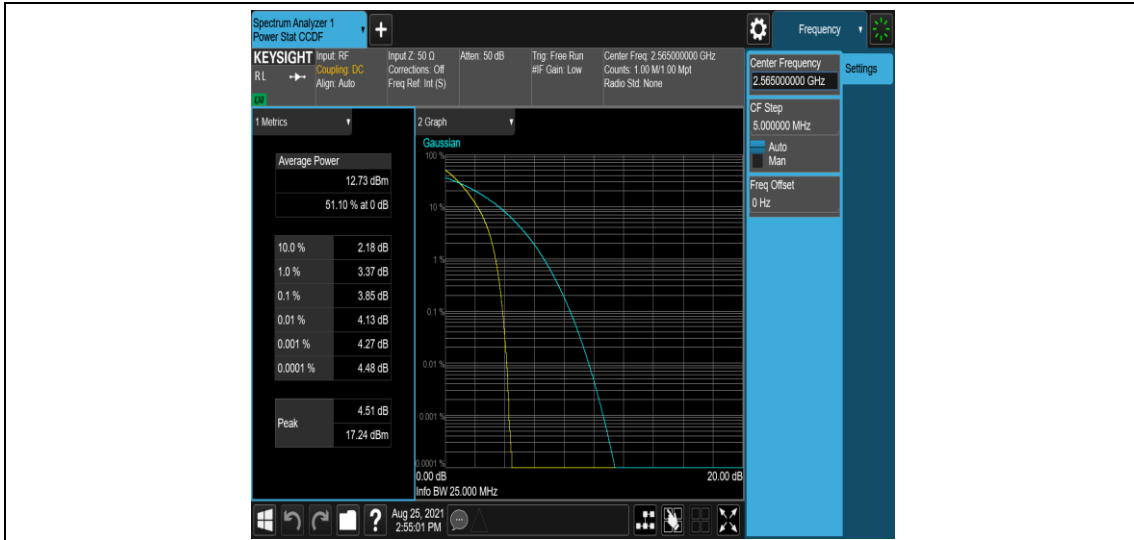
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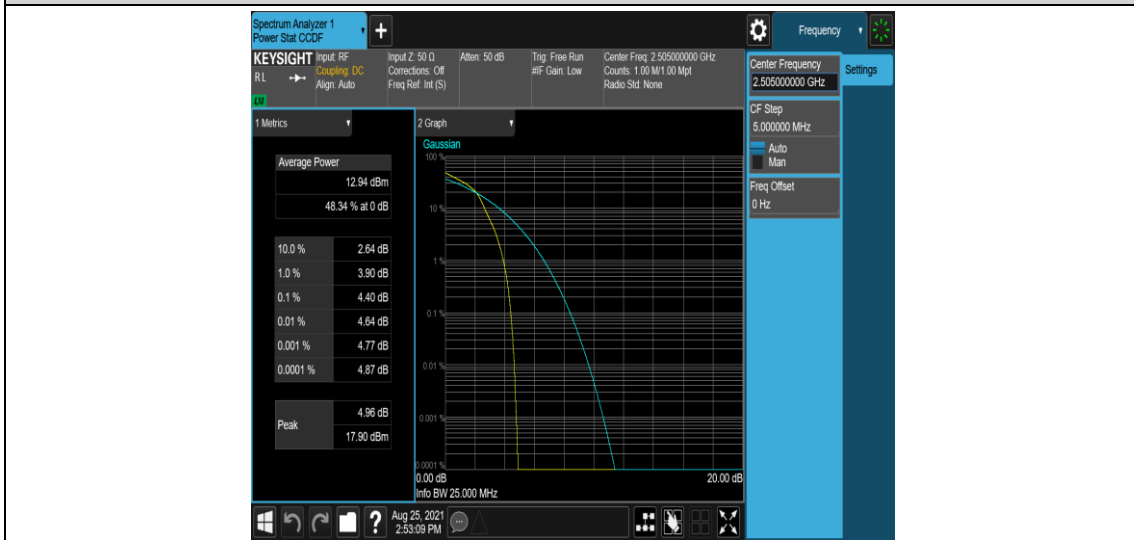
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Band7-10MHz-16QAM-20800-50RB#0



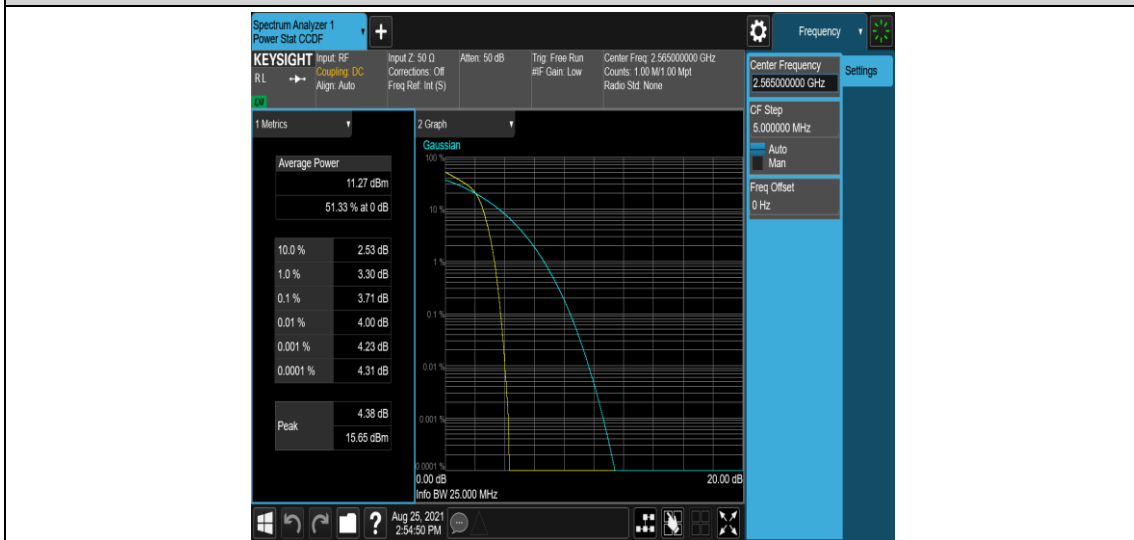
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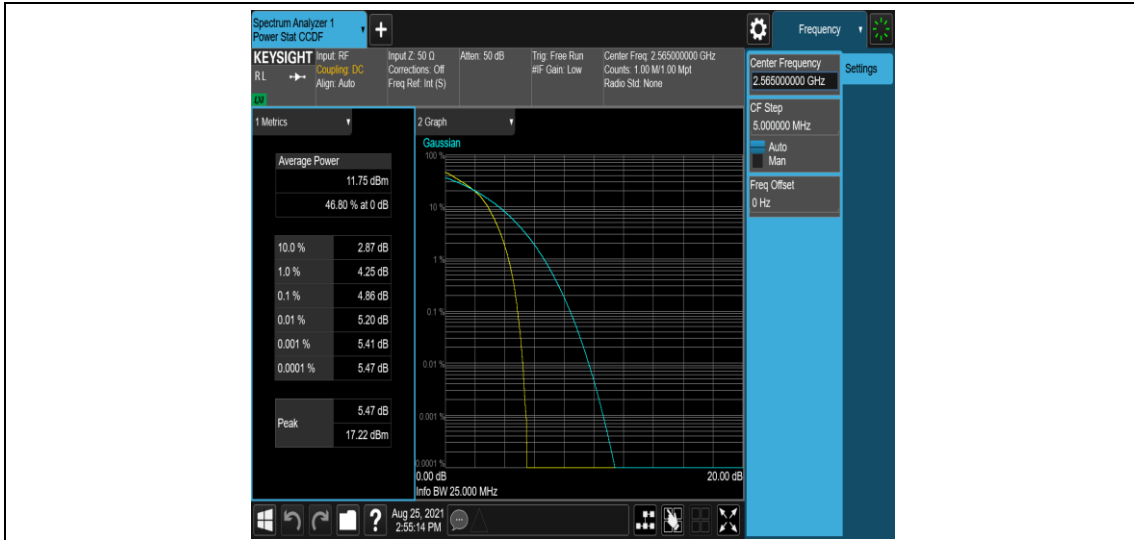
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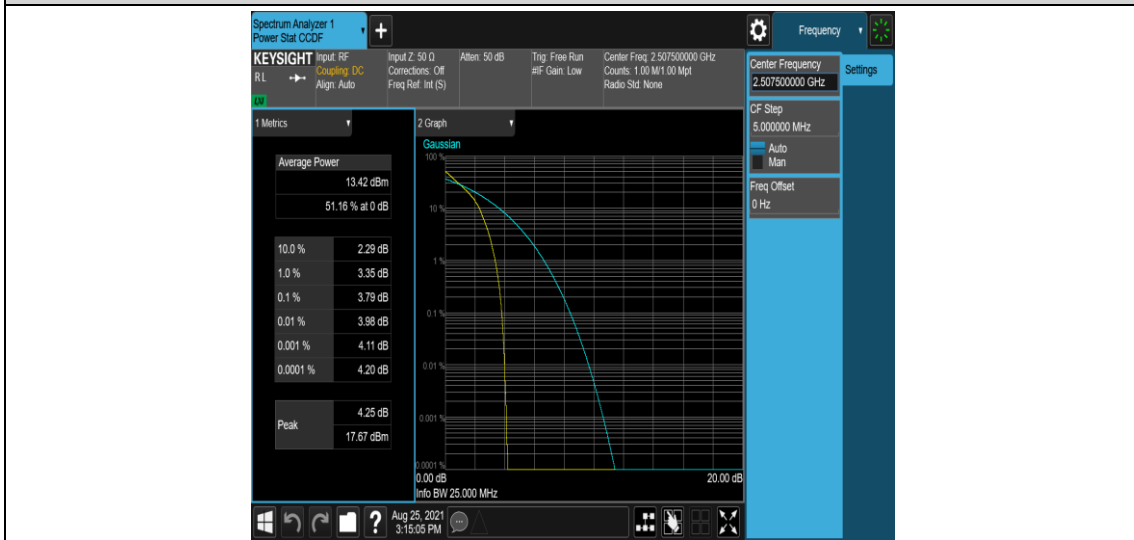
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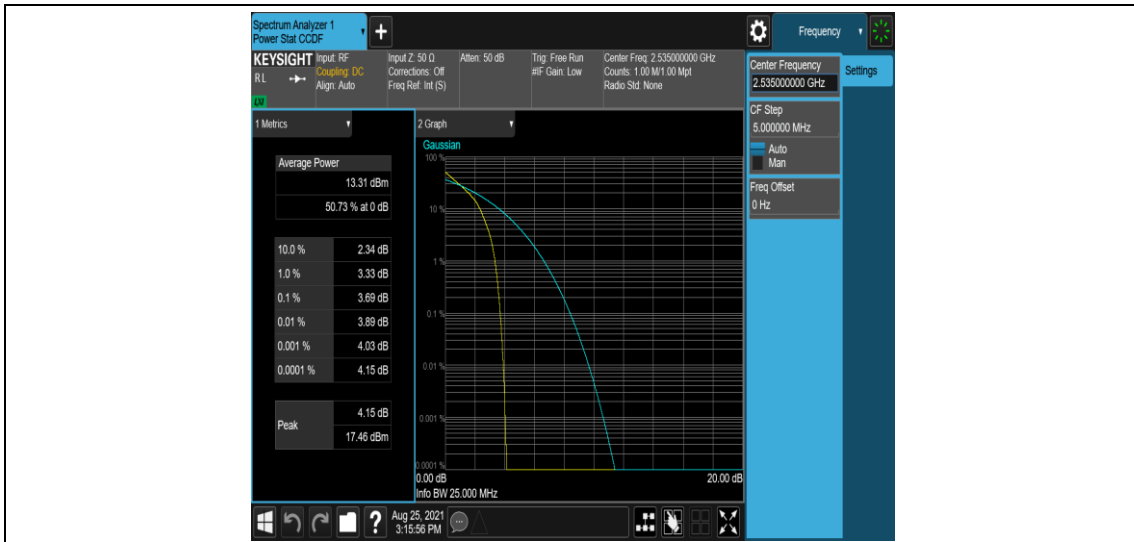
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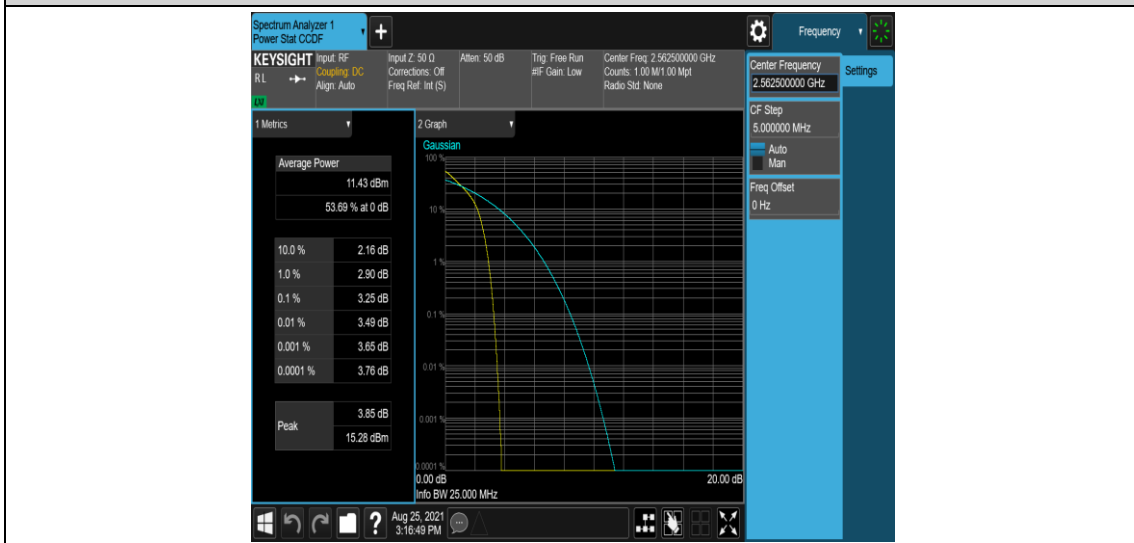
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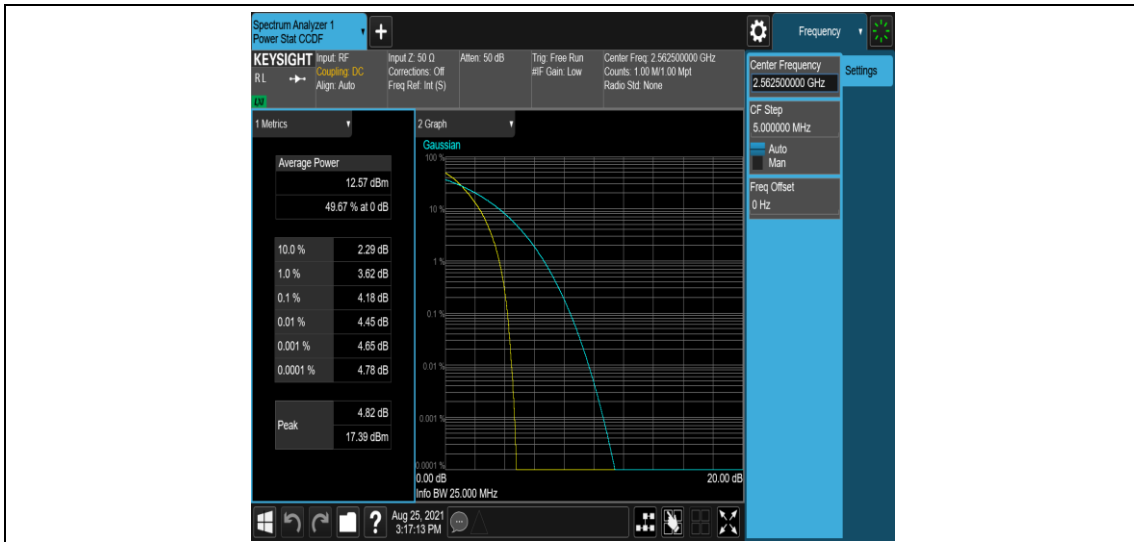
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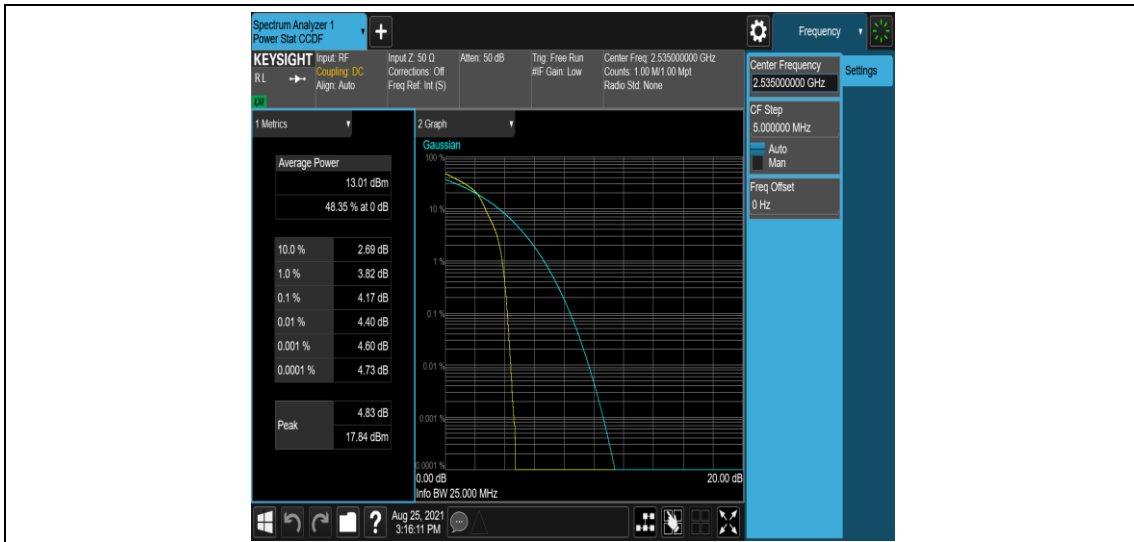
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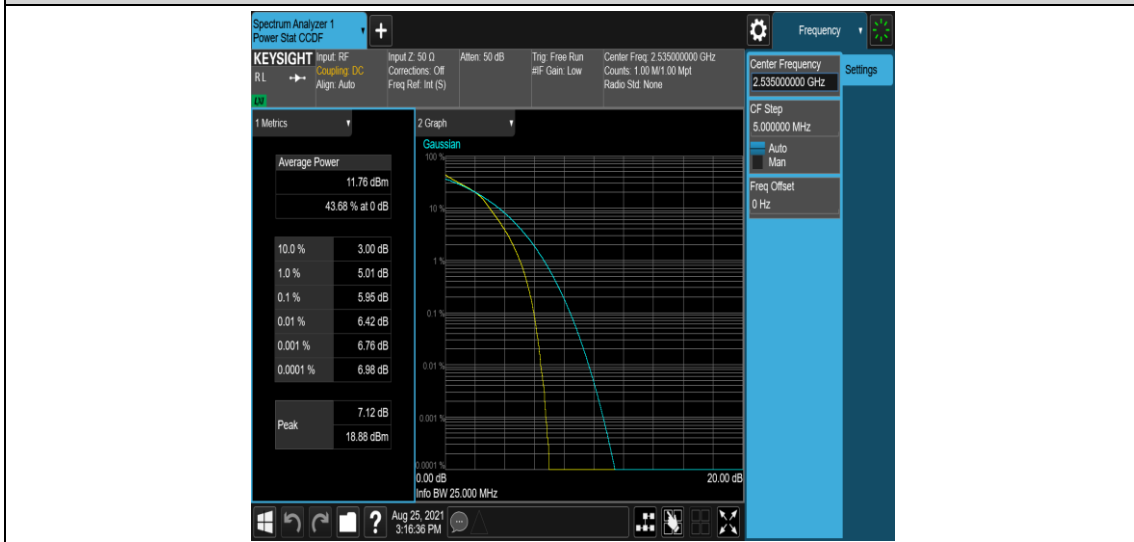
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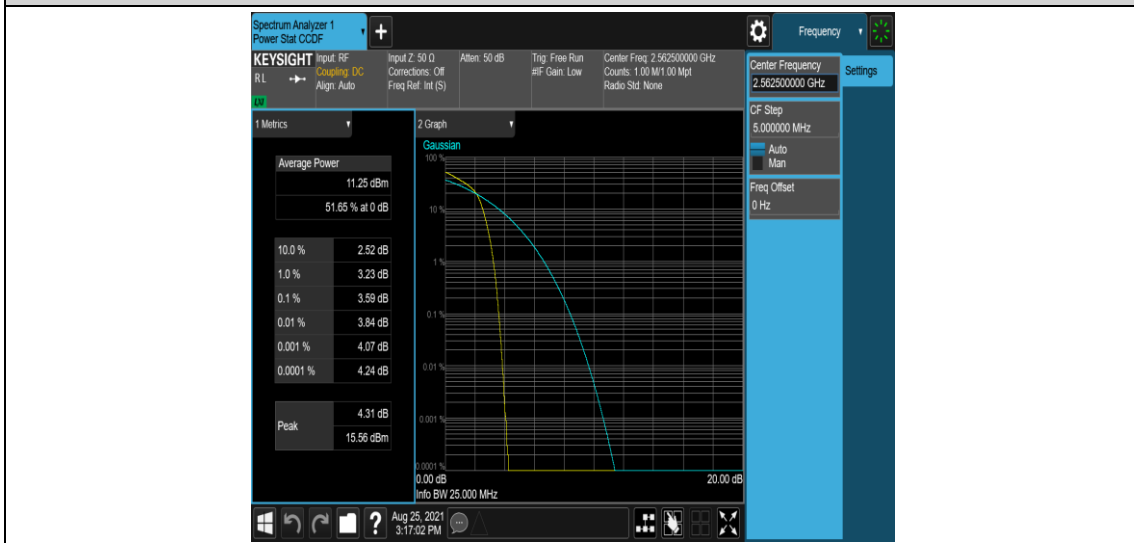
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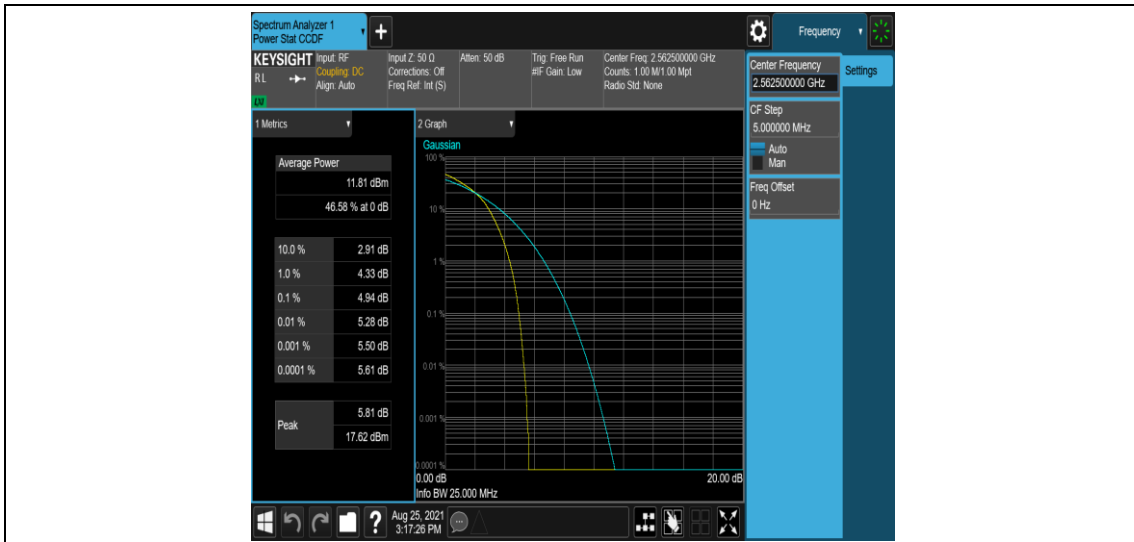
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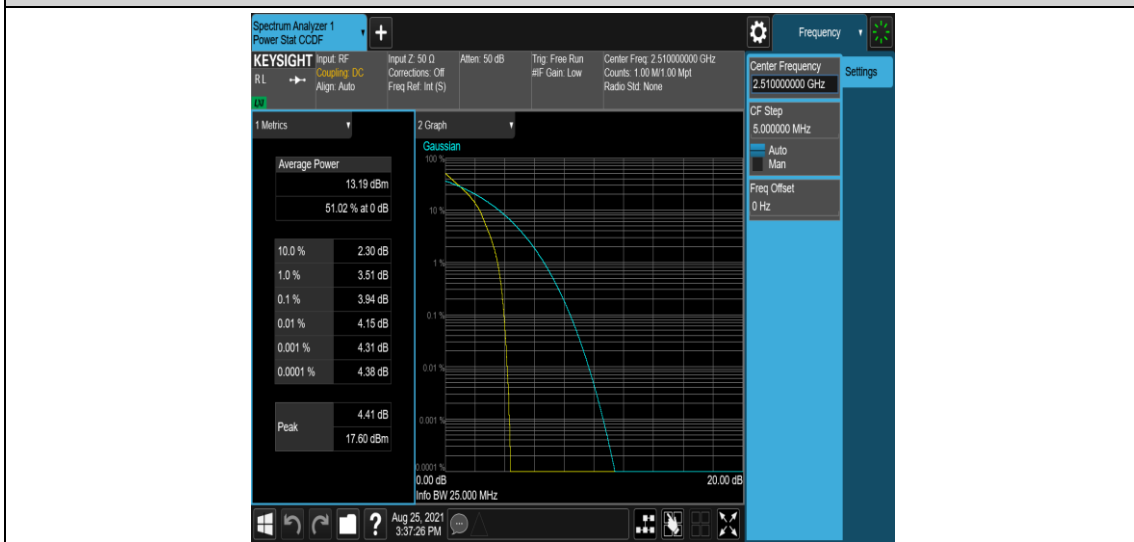
Band7-15MHz-16QAM-21375-1RB#0



Band7-15MHz-16QAM-21375-75RB#0



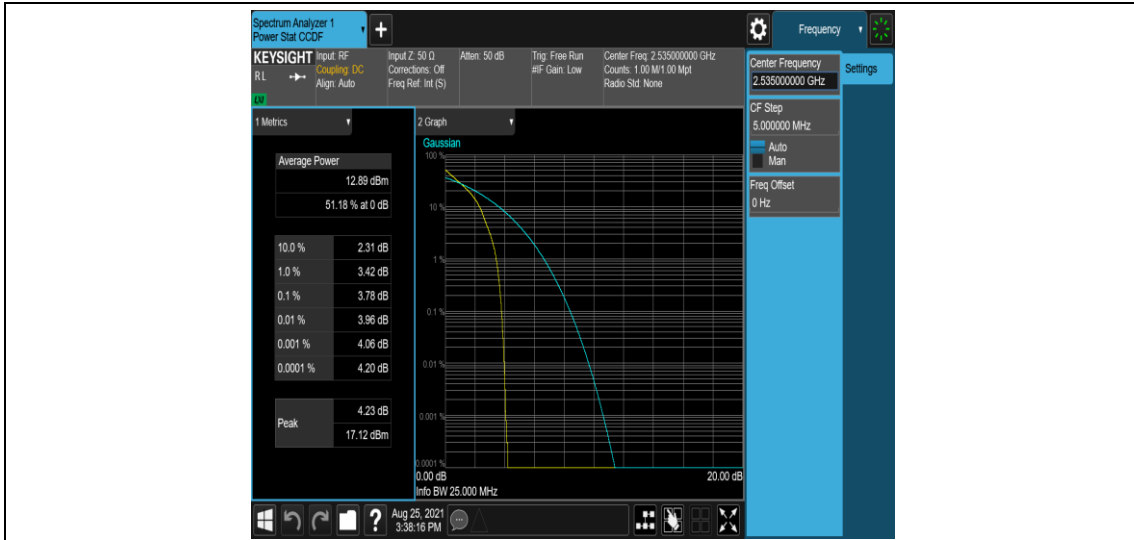
Band7-20MHz-QPSK-20850-1RB#0



Band7-20MHz-QPSK-20850-100RB#0



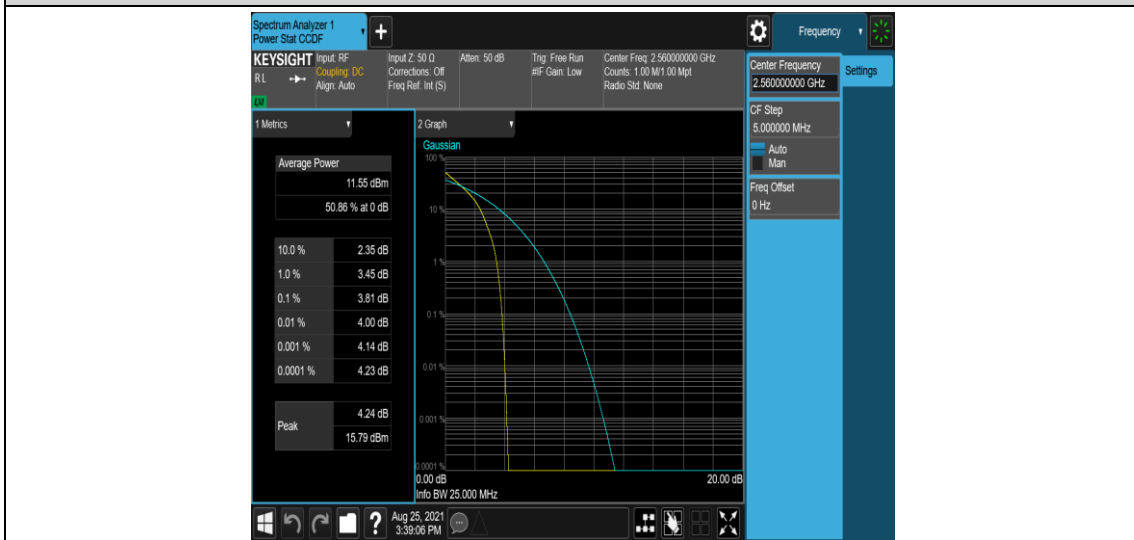
Band7-20MHz-QPSK-21100-1RB#0



Band7-20MHz-QPSK-21100-100RB#0



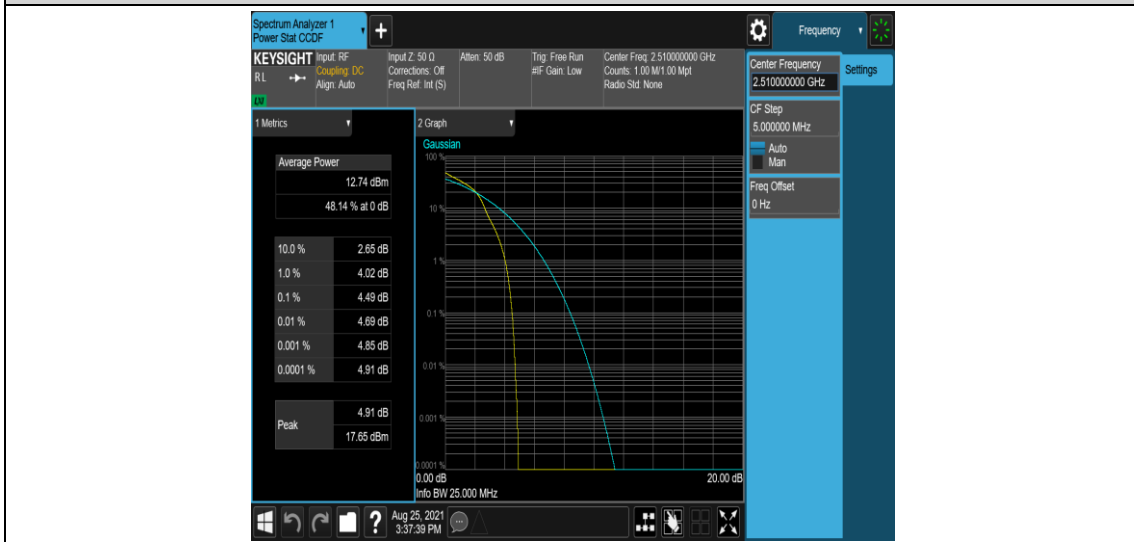
Band7-20MHz-QPSK-21350-1RB#0



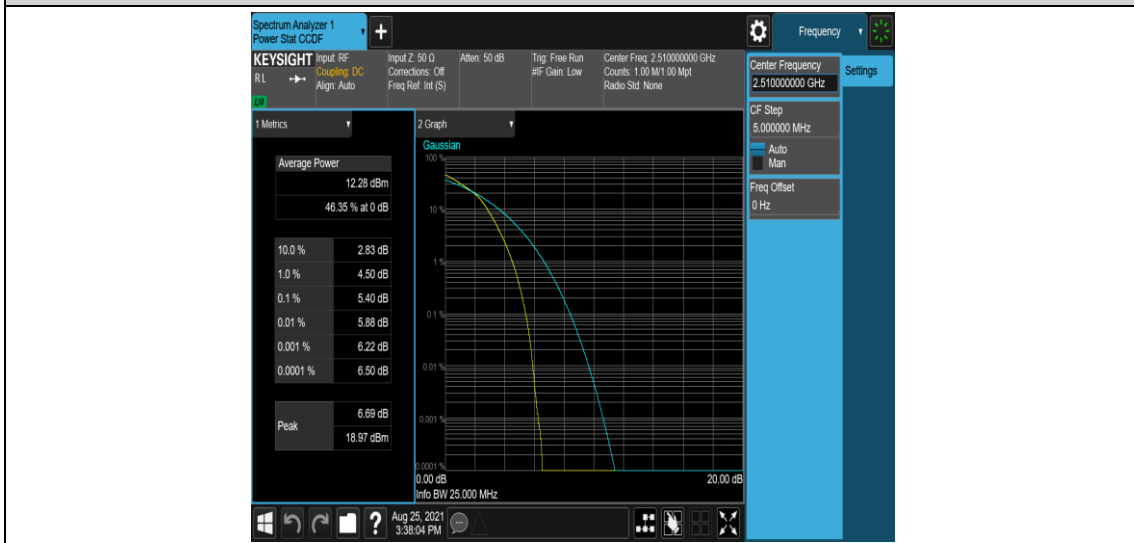
Band7-20MHz-QPSK-21350-100RB#0



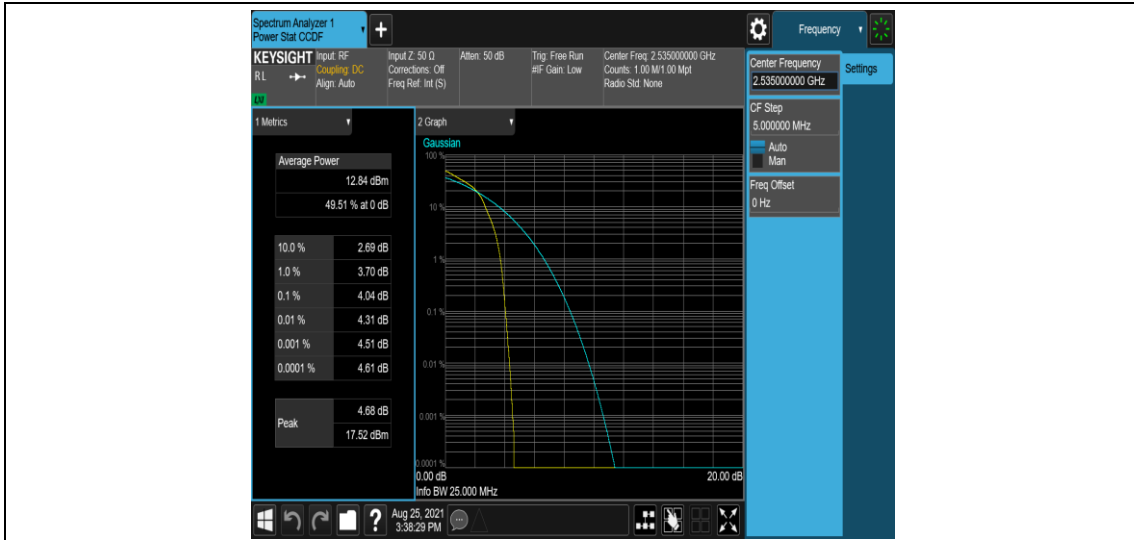
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Band7-20MHz-16QAM-20850-100RB#0



Band7-20MHz-16QAM-21100-1RB#0



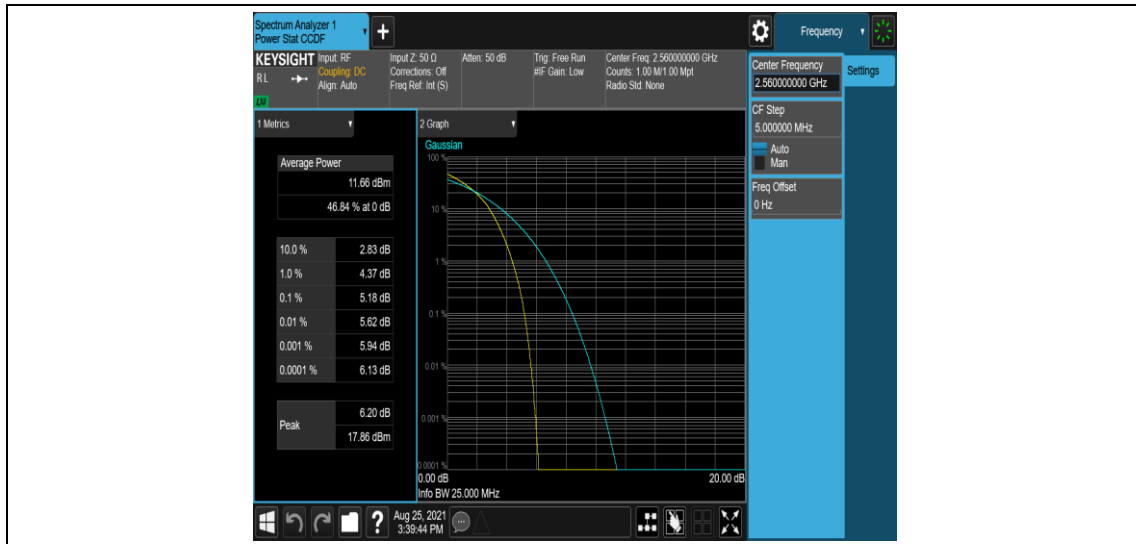
Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-1RB#0



Band7-20MHz-16QAM-21350-100RB#0

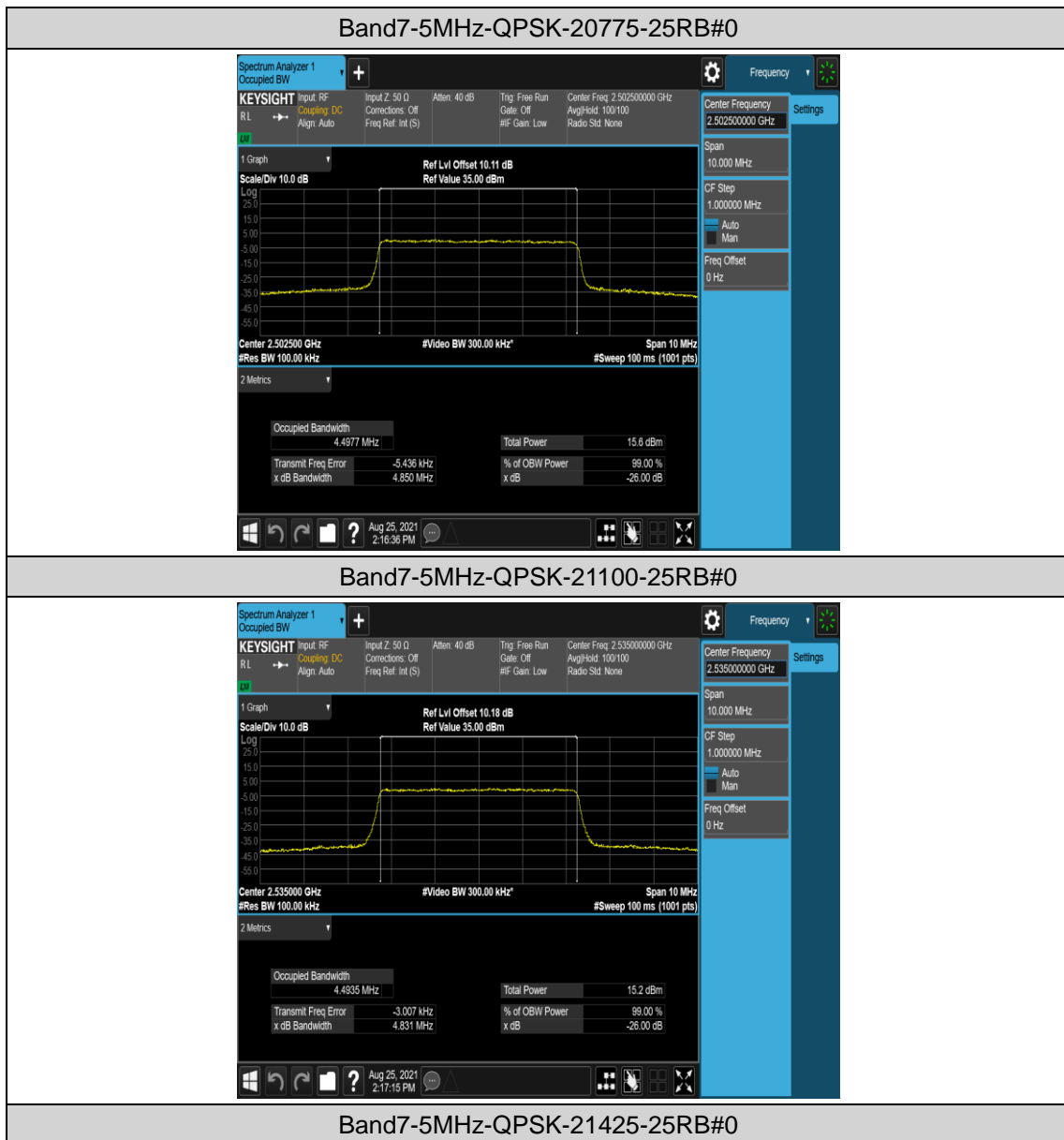


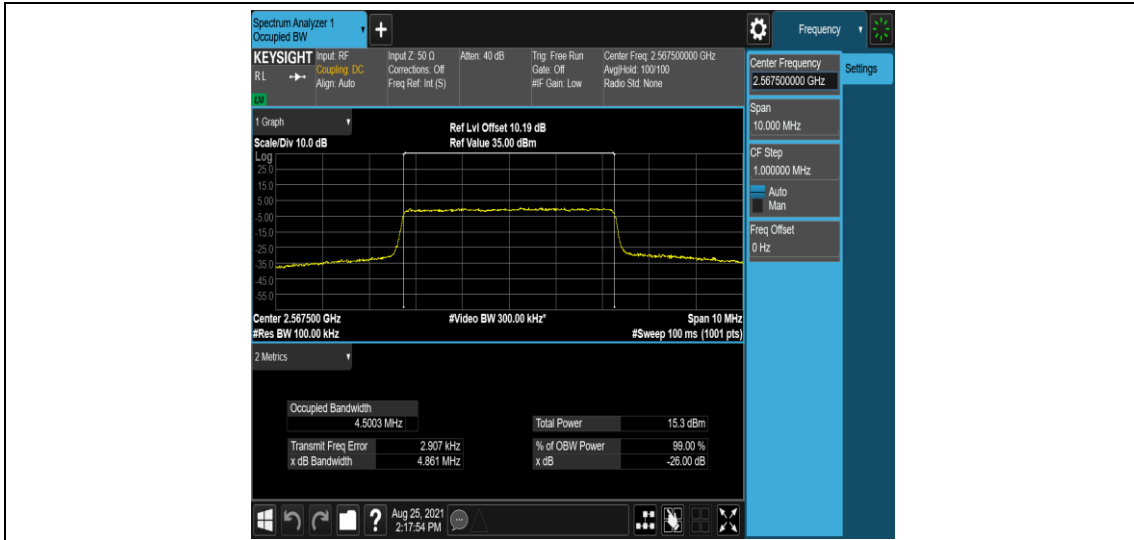
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

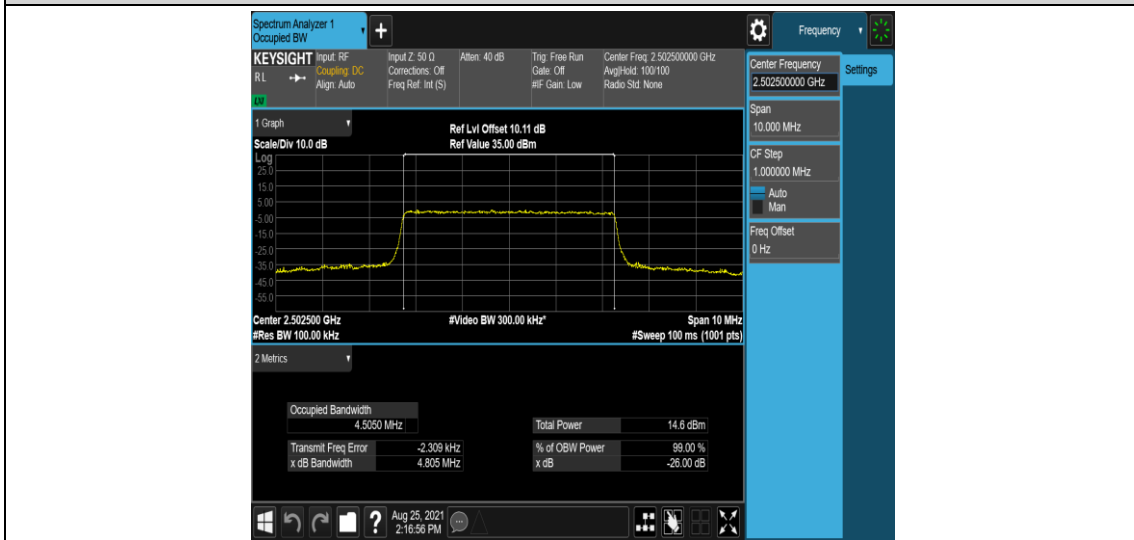
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4977	4.850	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4935	4.831	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5003	4.861	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5050	4.805	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5060	4.799	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5079	4.822	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9966	9.548	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9751	9.530	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9911	9.553	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9803	9.507	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9700	9.511	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9808	9.522	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.501	14.32	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.460	14.27	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.525	15.89	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.489	14.26	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.449	14.25	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.504	14.29	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.984	18.99	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.893	18.93	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.021	19.02	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.971	18.99	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.903	18.92	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.024	19.00	PASS

Test Graphs

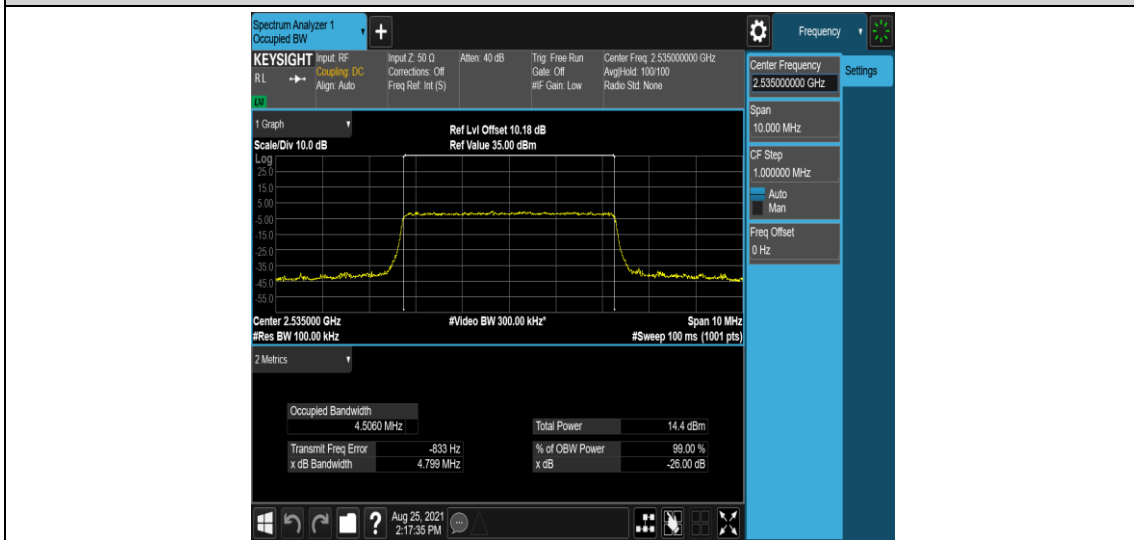




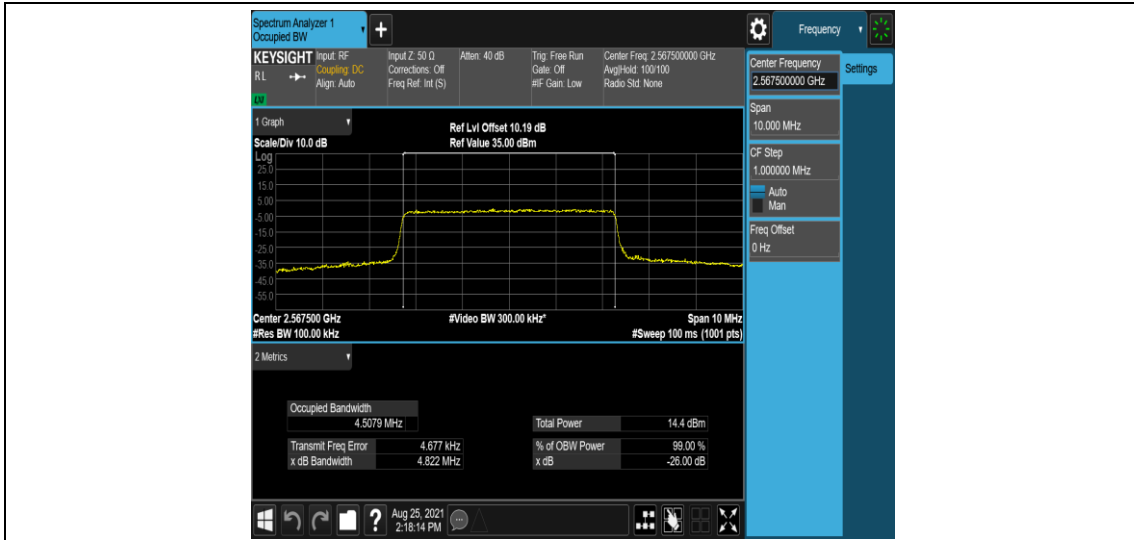
Band7-5MHz-16QAM-20775-25RB#0



Band7-5MHz-16QAM-21100-25RB#0



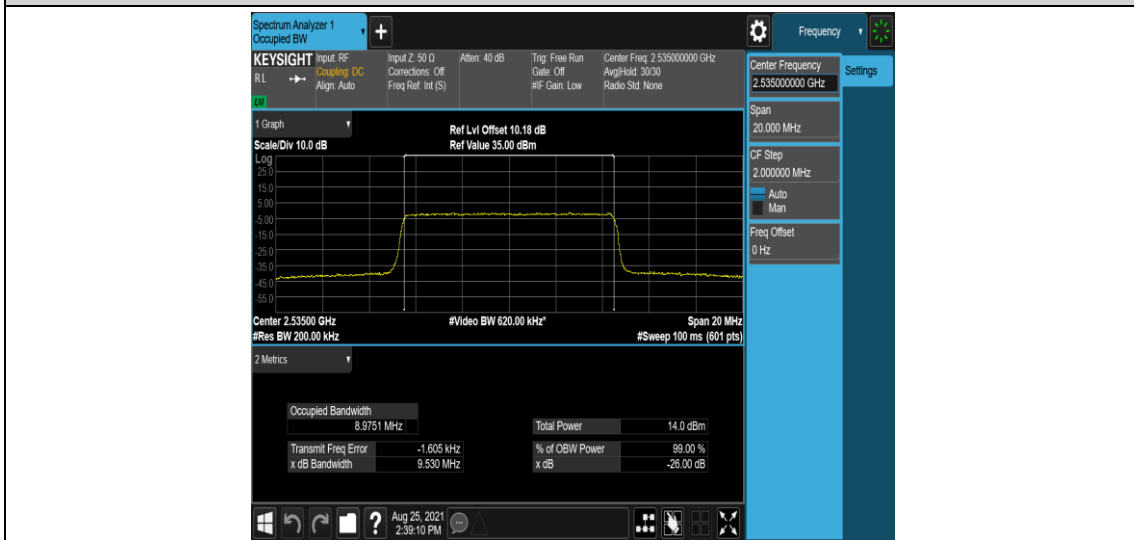
Band7-5MHz-16QAM-21425-25RB#0



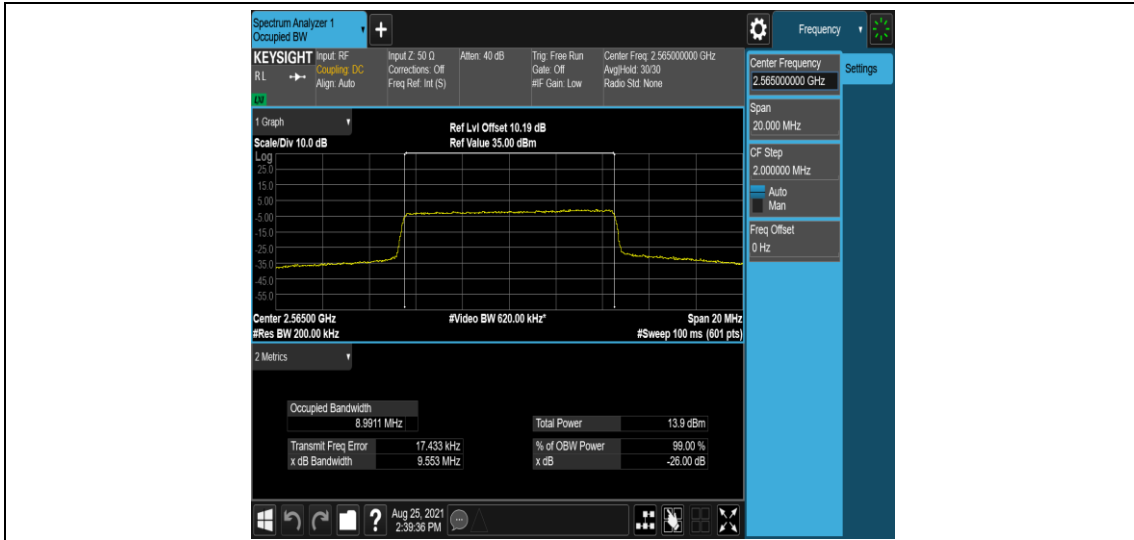
Band7-10MHz-QPSK-20800-50RB#0



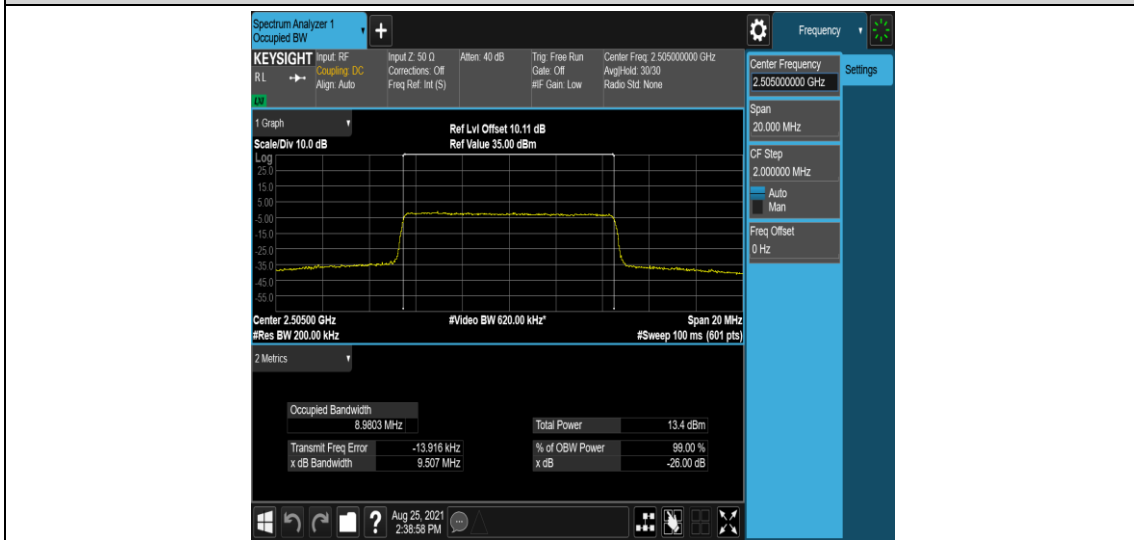
Band7-10MHz-QPSK-21100-50RB#0



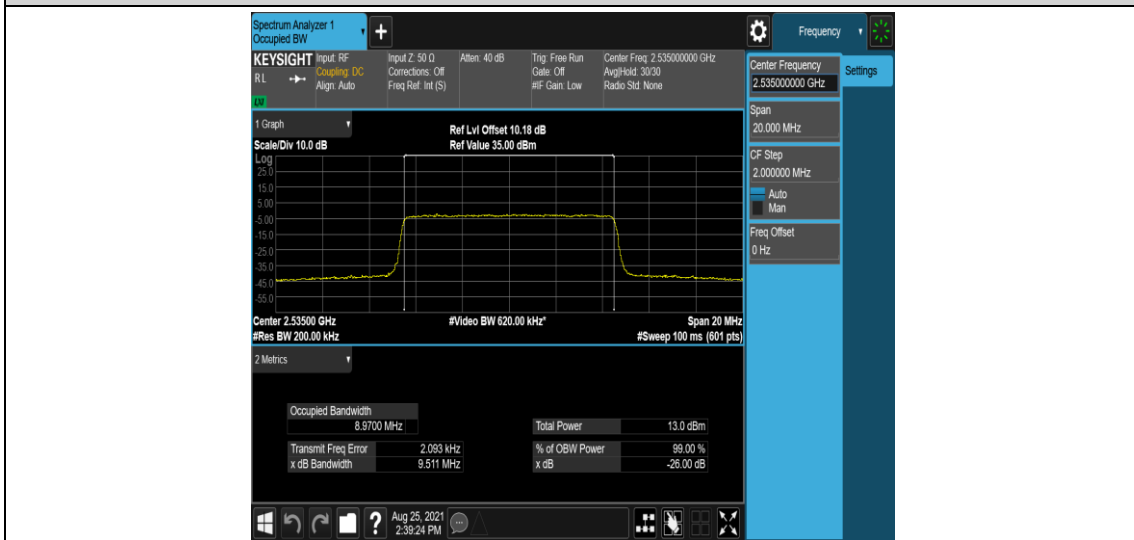
Band7-10MHz-QPSK-21400-50RB#0



Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-21100-50RB#0



Band7-10MHz-16QAM-21400-50RB#0