

## **Appendix for Band 41**

Product Name: Smart Phone

Model No: F91 5G

## Appendix A: Average Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	22.58	PASS
Band41	5MHz	QPSK	39675	1RB#12	22.63	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.66	PASS
Band41	5MHz	QPSK	39675	12RB#0	21.36	PASS
Band41	5MHz	QPSK	39675	12RB#6	21.37	PASS
Band41	5MHz	QPSK	39675	12RB#13	21.34	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.35	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.98	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.97	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.94	PASS
Band41	5MHz	QPSK	40620	12RB#0	21.68	PASS
Band41	5MHz	QPSK	40620	12RB#6	21.68	PASS
Band41	5MHz	QPSK	40620	12RB#13	21.58	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.64	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.25	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.30	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.30	PASS
Band41	5MHz	QPSK	41565	12RB#0	22.31	PASS
Band41	5MHz	QPSK	41565	12RB#6	22.31	PASS
Band41	5MHz	QPSK	41565	12RB#13	22.28	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.29	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.26	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.31	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.35	PASS
Band41	5MHz	16QAM	39675	12RB#0	20.33	PASS
Band41	5MHz	16QAM	39675	12RB#6	20.35	PASS
Band41	5MHz	16QAM	39675	12RB#13	20.31	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.35	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.64	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.62	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.59	PASS
Band41	5MHz	16QAM	40620	12RB#0	20.66	PASS

Band41	5MHz	16QAM	40620	12RB#6	20.66	PASS
Band41	5MHz	16QAM	40620	12RB#13	20.54	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.62	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.25	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.29	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.33	PASS
Band41	5MHz	16QAM	41565	12RB#0	21.32	PASS
Band41	5MHz	16QAM	41565	12RB#6	21.32	PASS
Band41	5MHz	16QAM	41565	12RB#13	21.32	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.25	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.38	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.49	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.49	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.37	PASS
Band41	10MHz	QPSK	39700	25RB#12	21.43	PASS
Band41	10MHz	QPSK	39700	25RB#25	21.42	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.49	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.78	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.76	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.65	PASS
Band41	10MHz	QPSK	40620	25RB#0	21.74	PASS
Band41	10MHz	QPSK	40620	25RB#12	21.75	PASS
Band41	10MHz	QPSK	40620	25RB#25	21.59	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.70	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.15	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.22	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.27	PASS
Band41	10MHz	QPSK	41540	25RB#0	22.26	PASS
Band41	10MHz	QPSK	41540	25RB#12	22.27	PASS
Band41	10MHz	QPSK	41540	25RB#25	22.29	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.29	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.35	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.47	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.49	PASS
Band41	10MHz	16QAM	39700	25RB#0	20.38	PASS
Band41	10MHz	16QAM	39700	25RB#12	20.38	PASS
Band41	10MHz	16QAM	39700	25RB#25	20.40	PASS

Band41	10MHz	16QAM	39700	50RB#0	20.40	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.74	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.74	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.67	PASS
Band41	10MHz	16QAM	40620	25RB#0	20.72	PASS
Band41	10MHz	16QAM	40620	25RB#12	20.71	PASS
Band41	10MHz	16QAM	40620	25RB#25	20.56	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.62	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.11	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.19	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.23	PASS
Band41	10MHz	16QAM	41540	25RB#0	21.27	PASS
Band41	10MHz	16QAM	41540	25RB#12	21.27	PASS
Band41	10MHz	16QAM	41540	25RB#25	21.26	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.25	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.31	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.47	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.34	PASS
Band41	15MHz	QPSK	39725	38RB#0	21.31	PASS
Band41	15MHz	QPSK	39725	38RB#18	21.44	PASS
Band41	15MHz	QPSK	39725	38RB#37	21.35	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.34	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.72	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.71	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.57	PASS
Band41	15MHz	QPSK	40620	38RB#0	21.69	PASS
Band41	15MHz	QPSK	40620	38RB#18	21.67	PASS
Band41	15MHz	QPSK	40620	38RB#37	21.58	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.62	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.06	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.17	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.19	PASS
Band41	15MHz	QPSK	41515	38RB#0	22.11	PASS
Band41	15MHz	QPSK	41515	38RB#18	22.21	PASS
Band41	15MHz	QPSK	41515	38RB#37	22.26	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.16	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.32	PASS

Band41	15MHz	16QAM	39725	1RB#38	21.47	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.34	PASS
Band41	15MHz	16QAM	39725	38RB#0	21.32	PASS
Band41	15MHz	16QAM	39725	38RB#18	21.47	PASS
Band41	15MHz	16QAM	39725	38RB#37	21.34	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.29	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.70	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.68	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.57	PASS
Band41	15MHz	16QAM	40620	38RB#0	21.70	PASS
Band41	15MHz	16QAM	40620	38RB#18	21.67	PASS
Band41	15MHz	16QAM	40620	38RB#37	21.56	PASS
Band41	15MHz	16QAM	40620	75RB#0	20.58	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.10	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.22	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.25	PASS
Band41	15MHz	16QAM	41515	38RB#0	22.11	PASS
Band41	15MHz	16QAM	41515	38RB#18	22.21	PASS
Band41	15MHz	16QAM	41515	38RB#37	22.25	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.14	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.19	PASS
Band41	20MHz	QPSK	39750	1RB#49	22.46	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.27	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.51	PASS
Band41	20MHz	QPSK	39750	50RB#25	21.47	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.37	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.40	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.56	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.64	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.51	PASS
Band41	20MHz	QPSK	40620	50RB#0	21.73	PASS
Band41	20MHz	QPSK	40620	50RB#25	21.73	PASS
Band41	20MHz	QPSK	40620	50RB#50	21.52	PASS
Band41	20MHz	QPSK	40620	100RB#0	21.61	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.02	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.15	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.37	PASS

Band41	20MHz	QPSK	41490	50RB#0	22.20	PASS
Band41	20MHz	QPSK	41490	50RB#25	22.19	PASS
Band41	20MHz	QPSK	41490	50RB#50	22.16	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.16	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.10	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.36	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.15	PASS
Band41	20MHz	16QAM	39750	50RB#0	20.45	PASS
Band41	20MHz	16QAM	39750	50RB#25	20.45	PASS
Band41	20MHz	16QAM	39750	50RB#50	20.33	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.38	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.49	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.52	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.41	PASS
Band41	20MHz	16QAM	40620	50RB#0	20.70	PASS
Band41	20MHz	16QAM	40620	50RB#25	20.69	PASS
Band41	20MHz	16QAM	40620	50RB#50	20.51	PASS
Band41	20MHz	16QAM	40620	100RB#0	20.58	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.23	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.38	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.42	PASS
Band41	20MHz	16QAM	41490	50RB#0	21.18	PASS
Band41	20MHz	16QAM	41490	50RB#25	21.16	PASS
Band41	20MHz	16QAM	41490	50RB#50	21.13	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.13	PASS

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

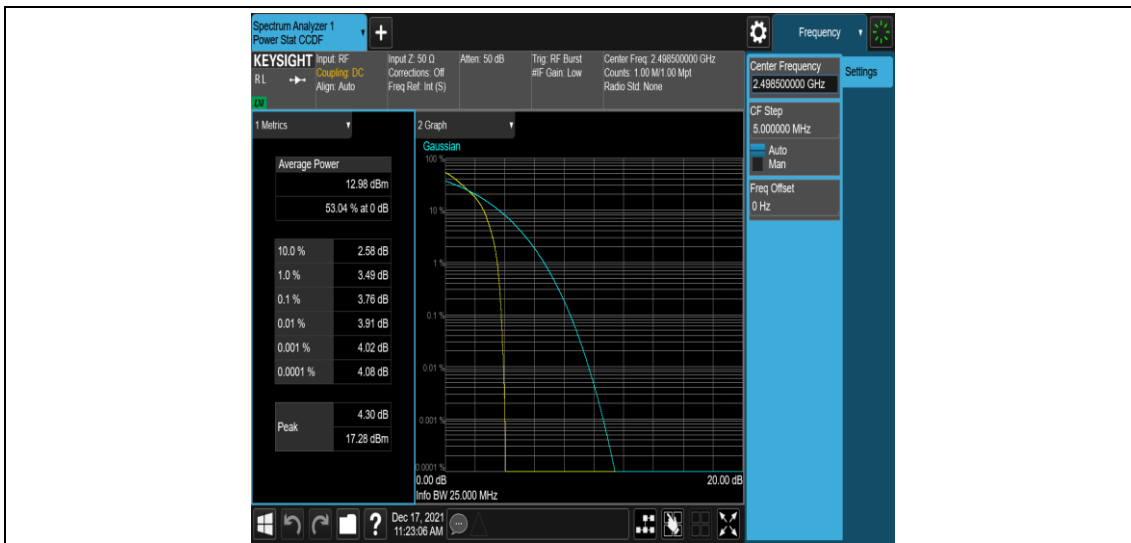
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	3.76	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	4.69	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	3.73	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.28	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	3.41	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.30	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	5.05	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	5.87	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	4.83	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	5.19	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	4.76	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	5.27	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	4.01	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	4.80	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	3.84	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	4.34	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	4.09	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	4.42	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	5.18	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	5.71	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	4.90	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	5.29	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	4.78	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	5.42	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	4.18	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	5.27	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	3.94	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	4.75	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	4.15	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	4.88	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	5.22	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	6.02	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	4.94	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	5.58	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	5.15	13	PASS

Band41	15MHz	16QAM	41515	75RB#0	5.75	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	4.16	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.24	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	3.86	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	4.83	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	3.96	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	4.92	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	4.97	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.03	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	4.63	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	5.67	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	4.70	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	5.79	13	PASS



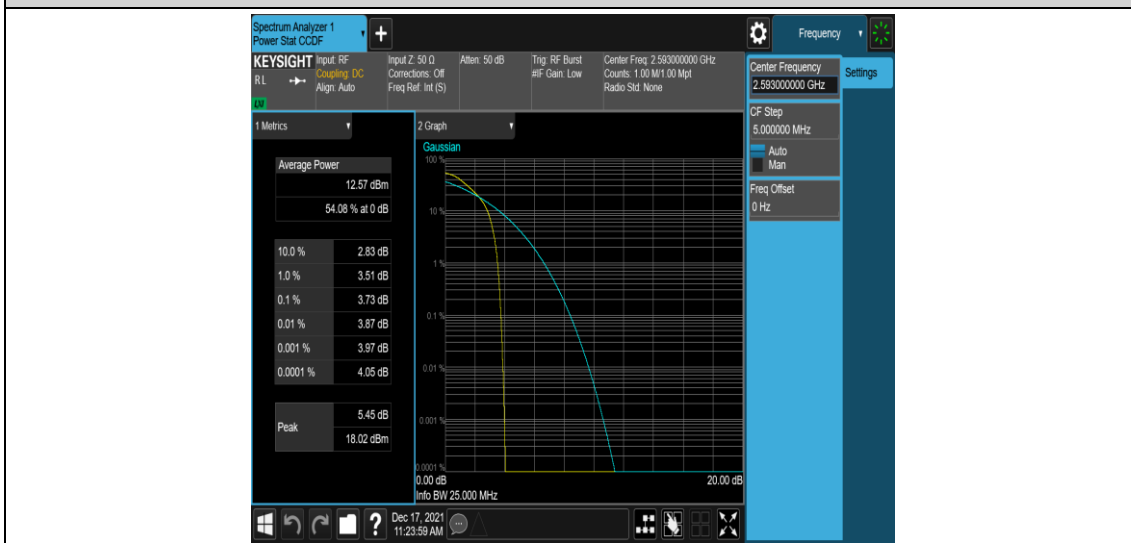
### Test Graphs



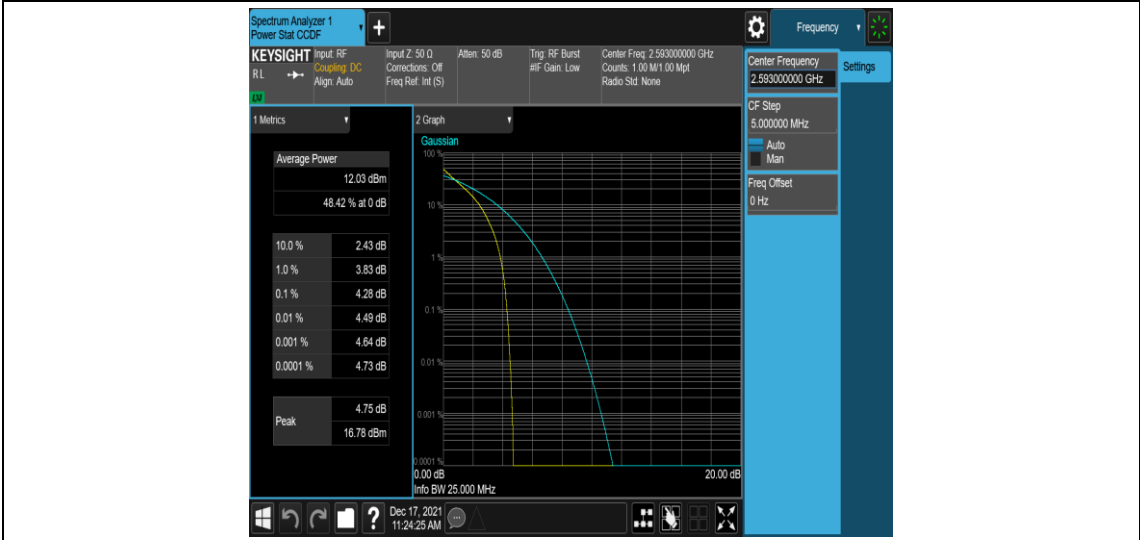
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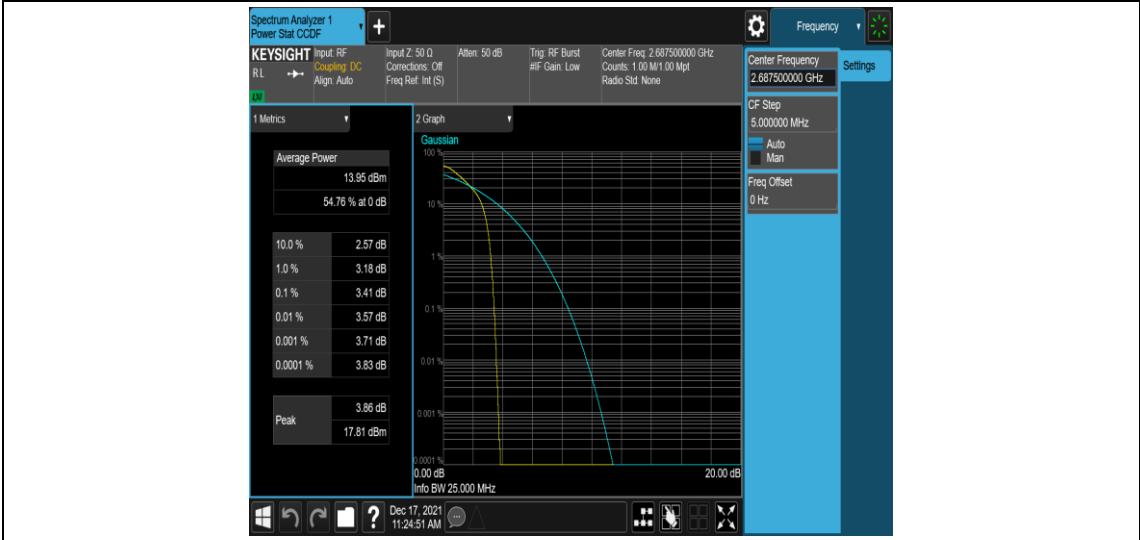
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**Band41-5MHz-QPSK-40620-1RB#0**



**Band41-5MHz-QPSK-40620-25RB#0**



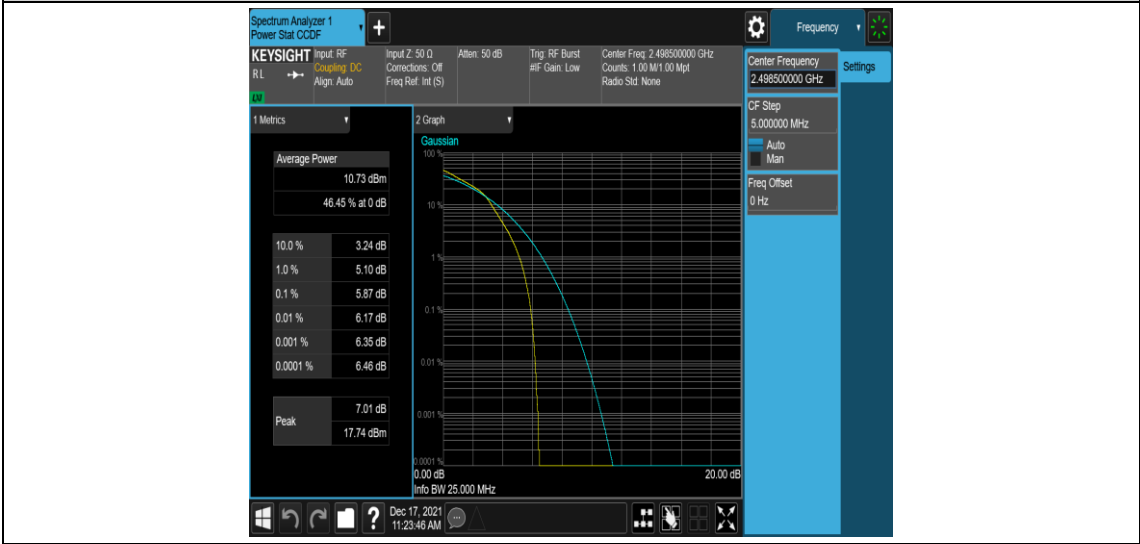
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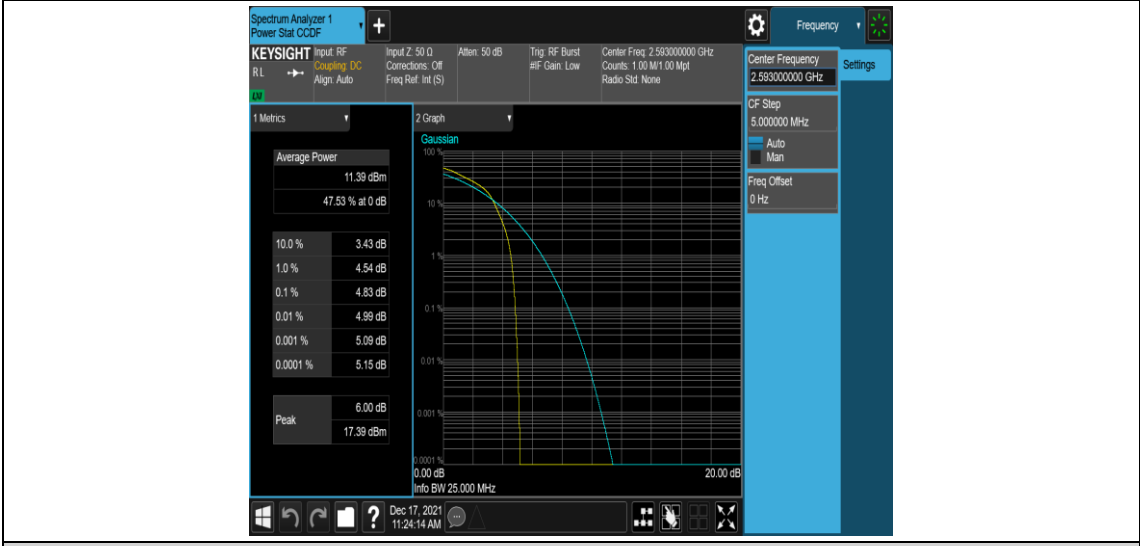
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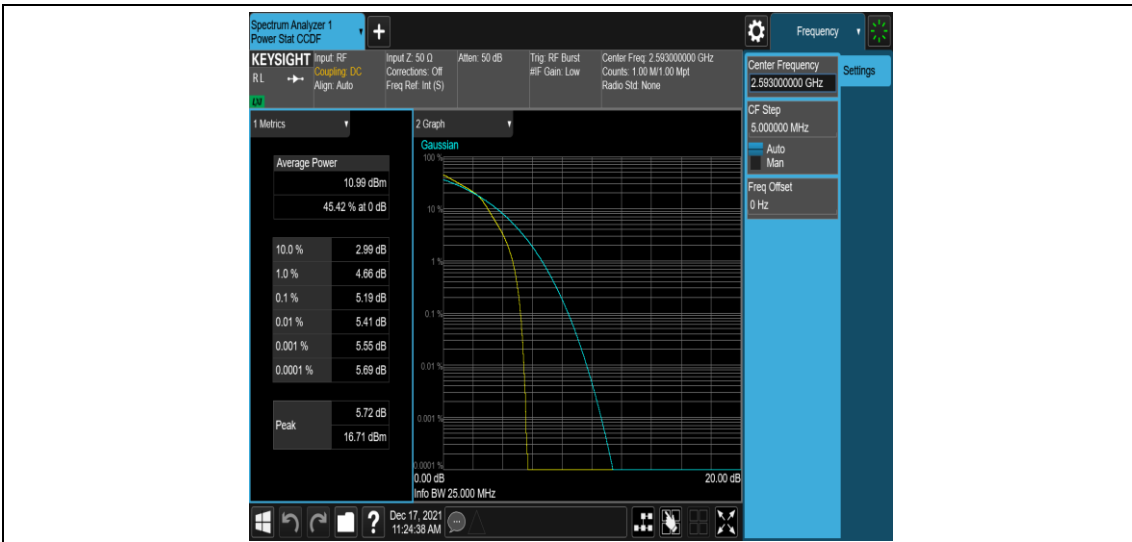
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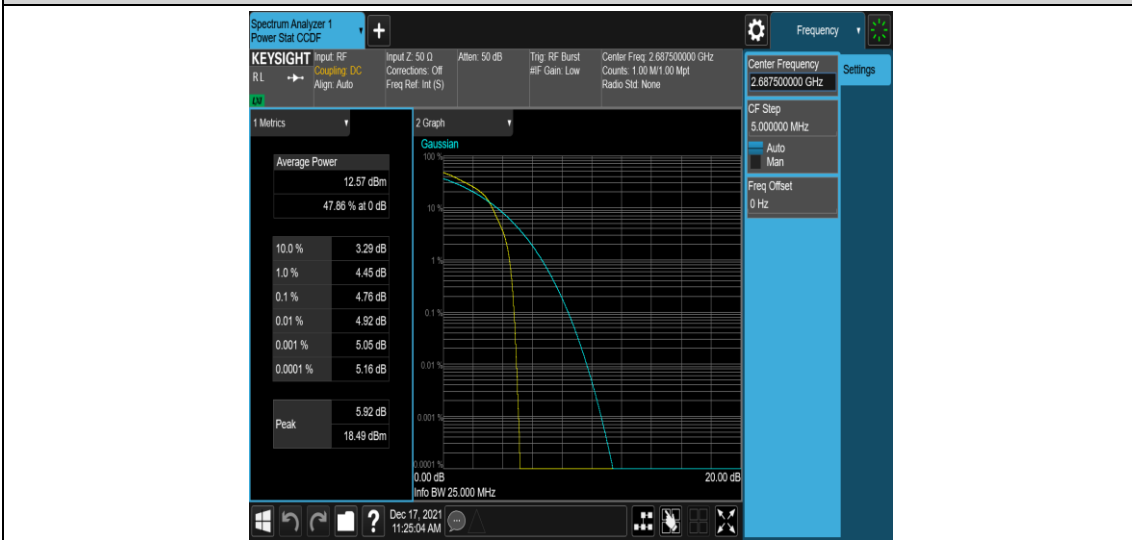
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Band41-5MHz-16QAM-40620-25RB#0



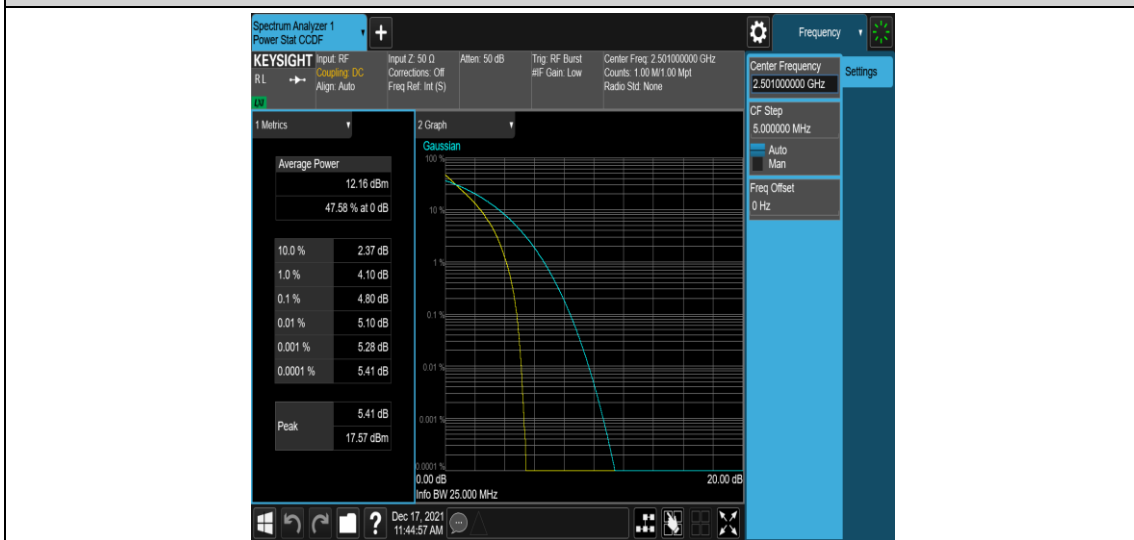
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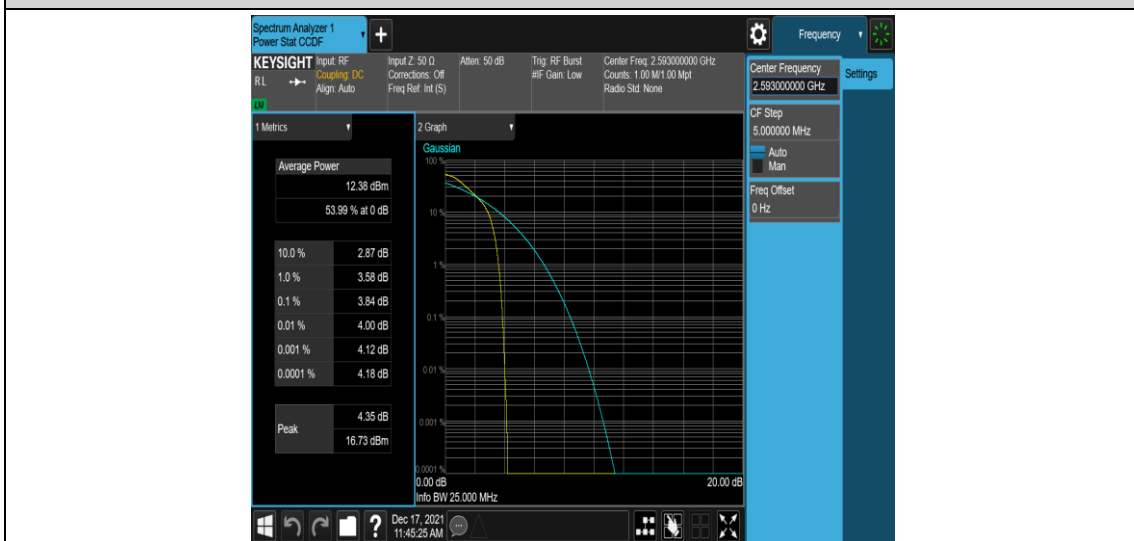
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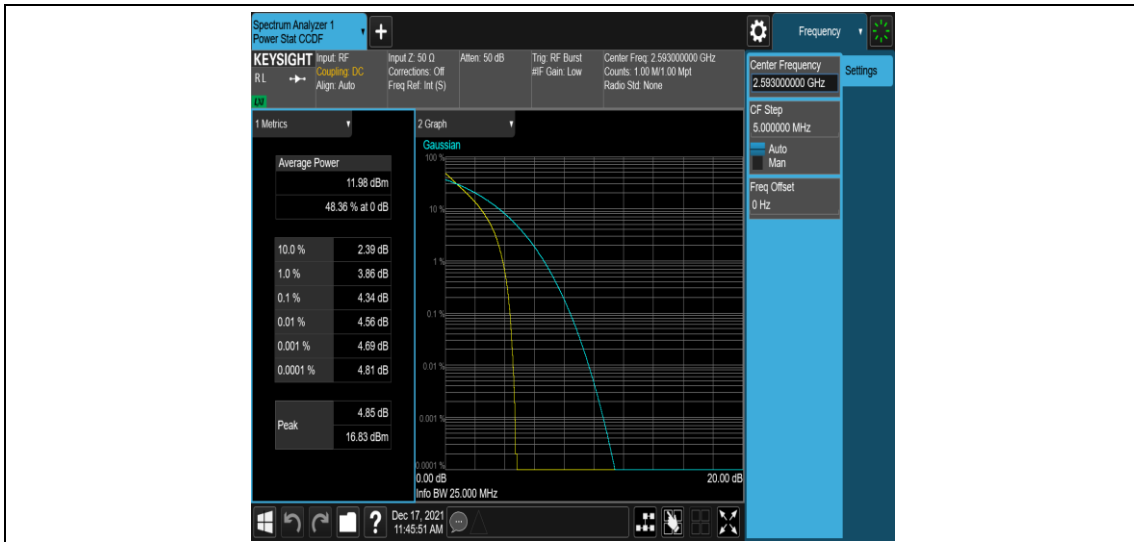
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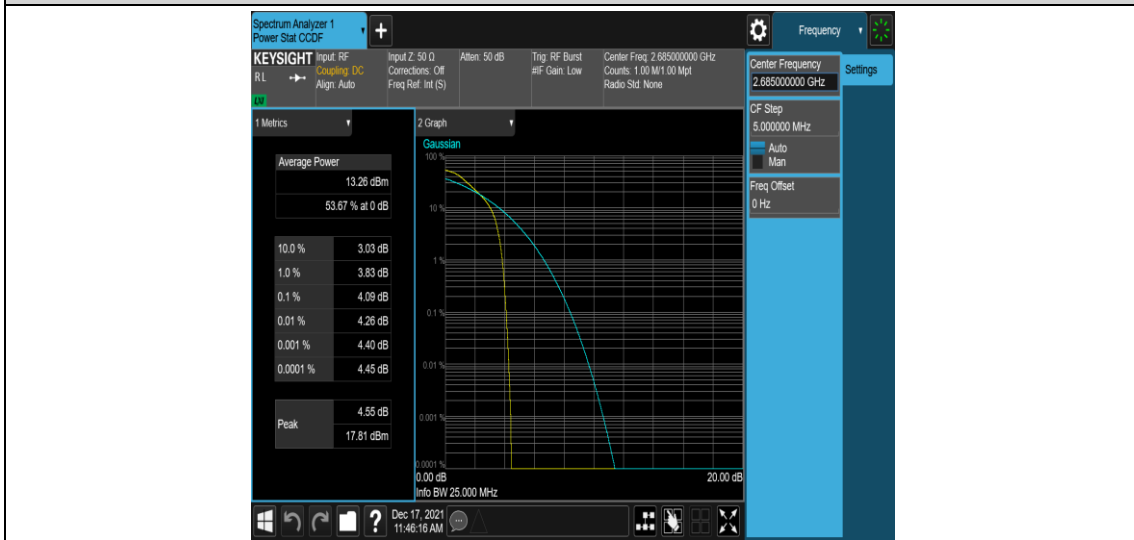
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Band41-10MHz-QPSK-40620-1RB#0



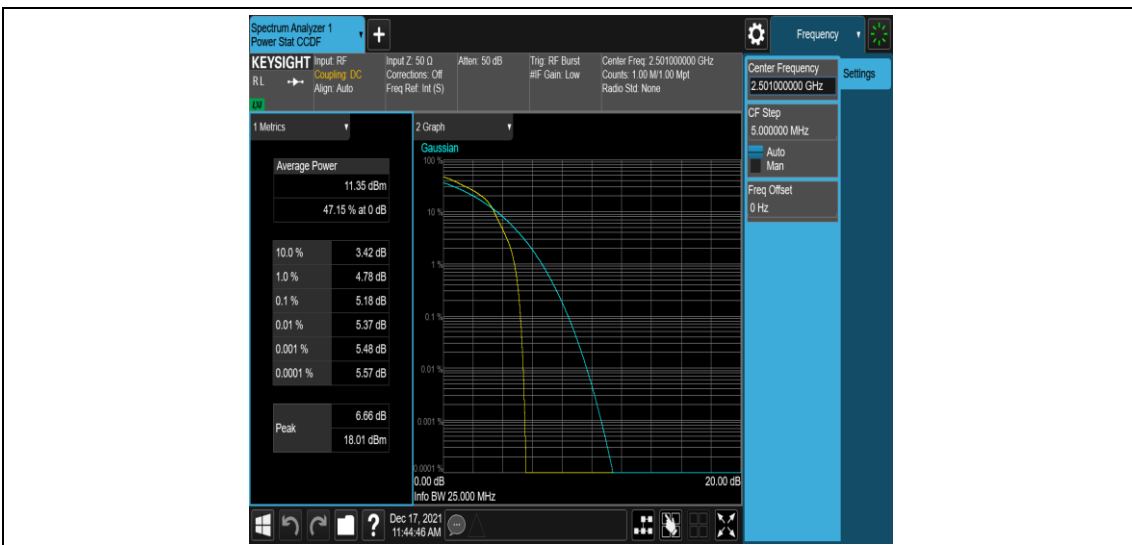
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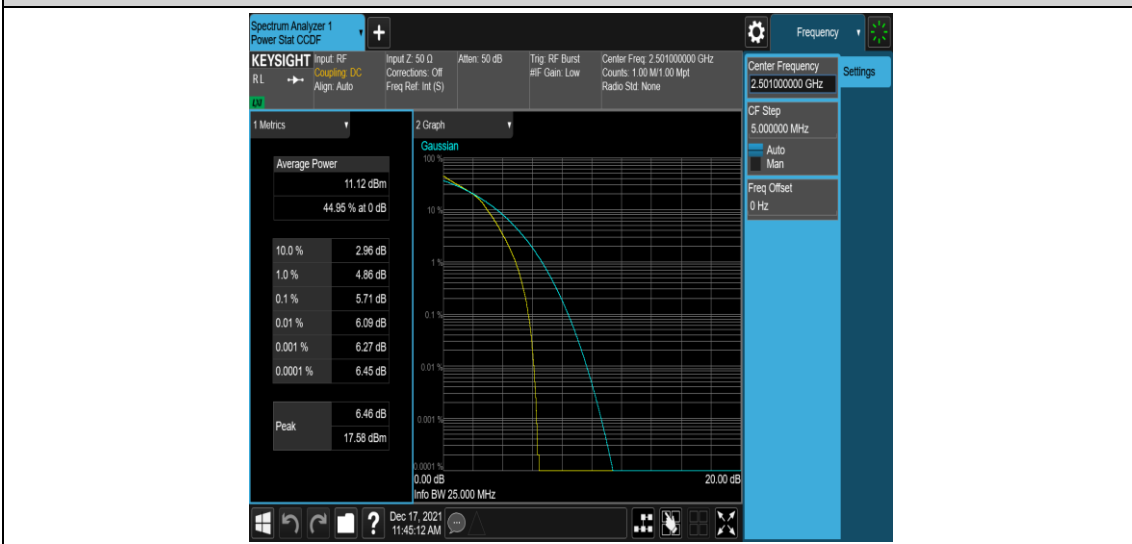
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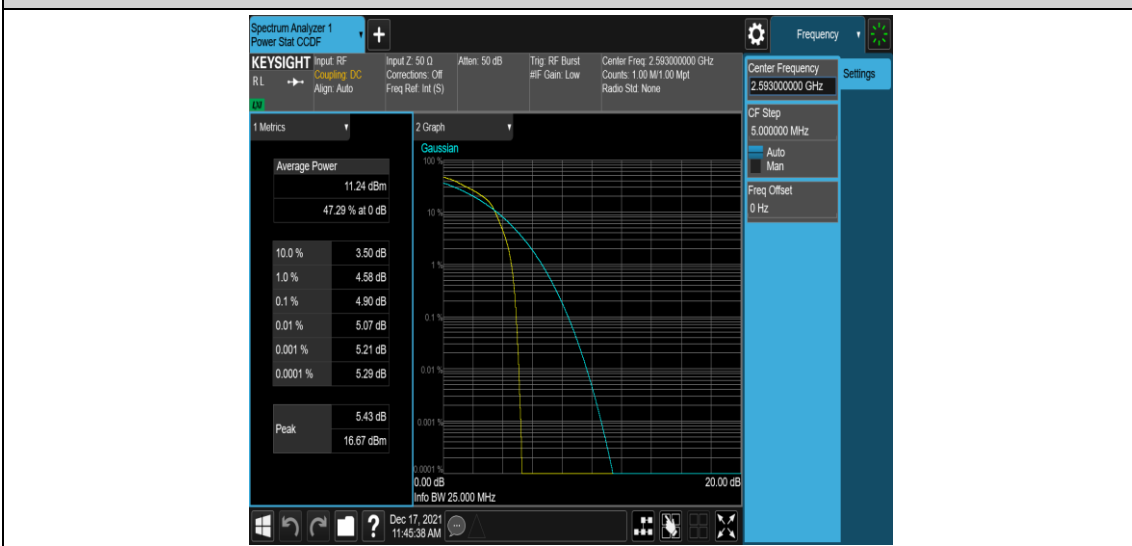
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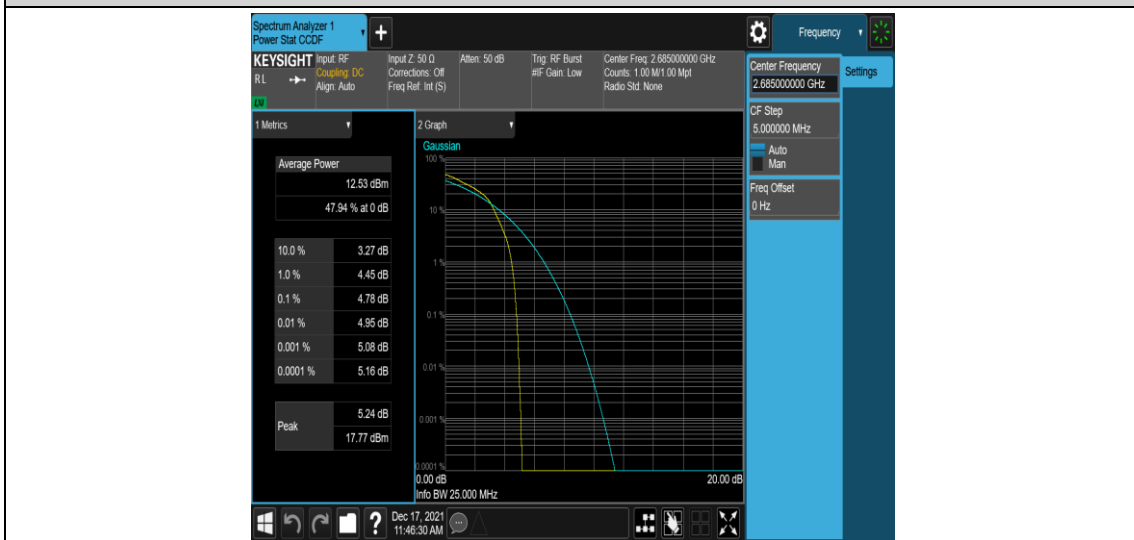
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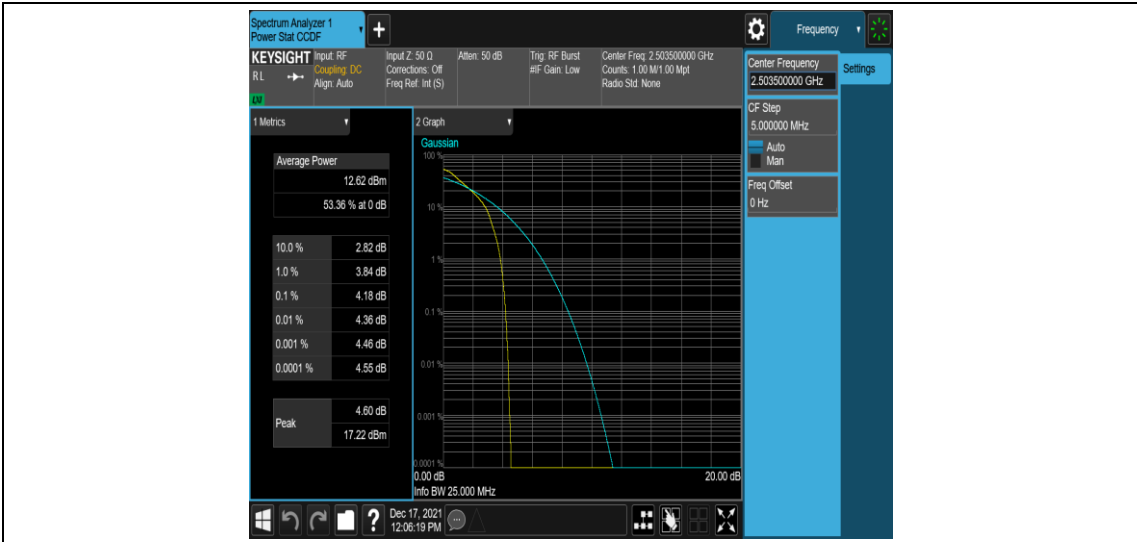


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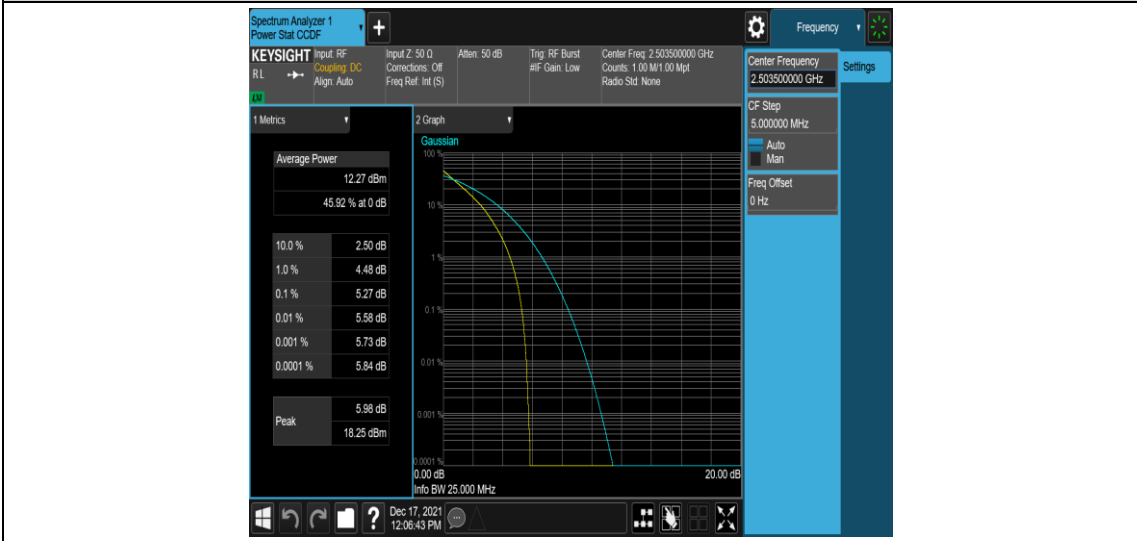


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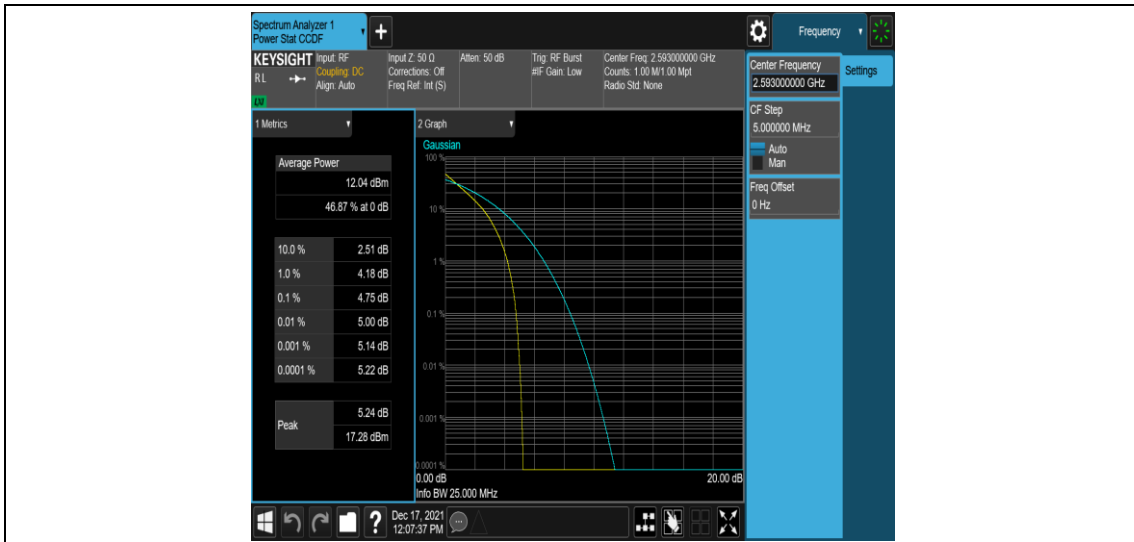
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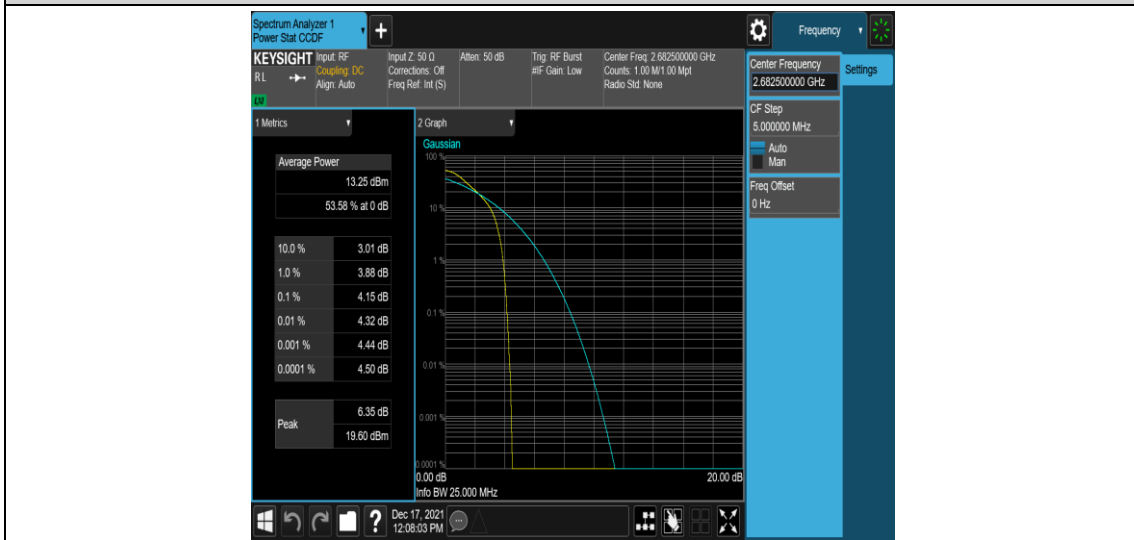
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Band41-15MHz-QPSK-40620-1RB#0



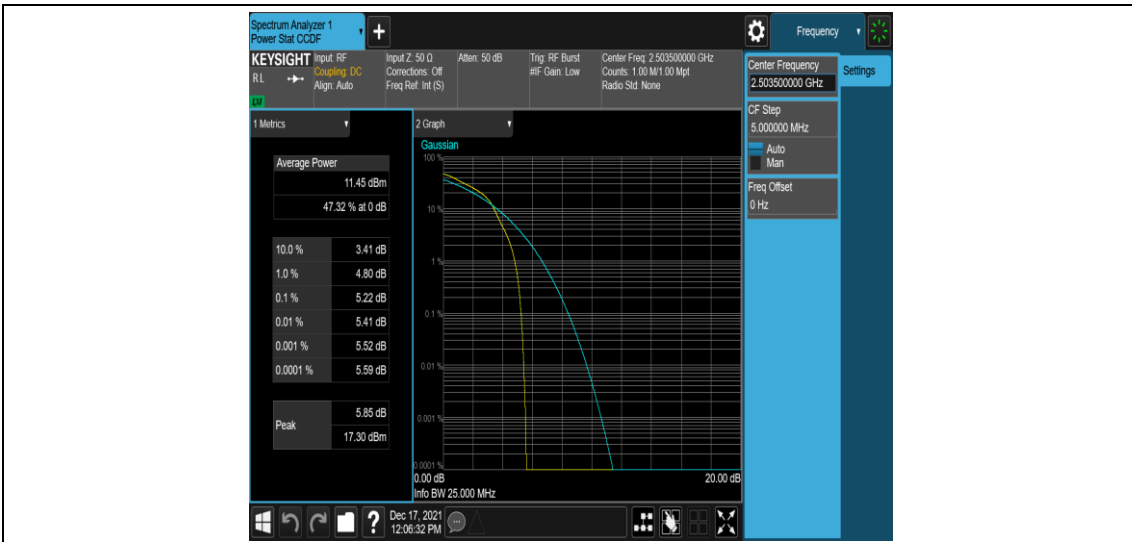
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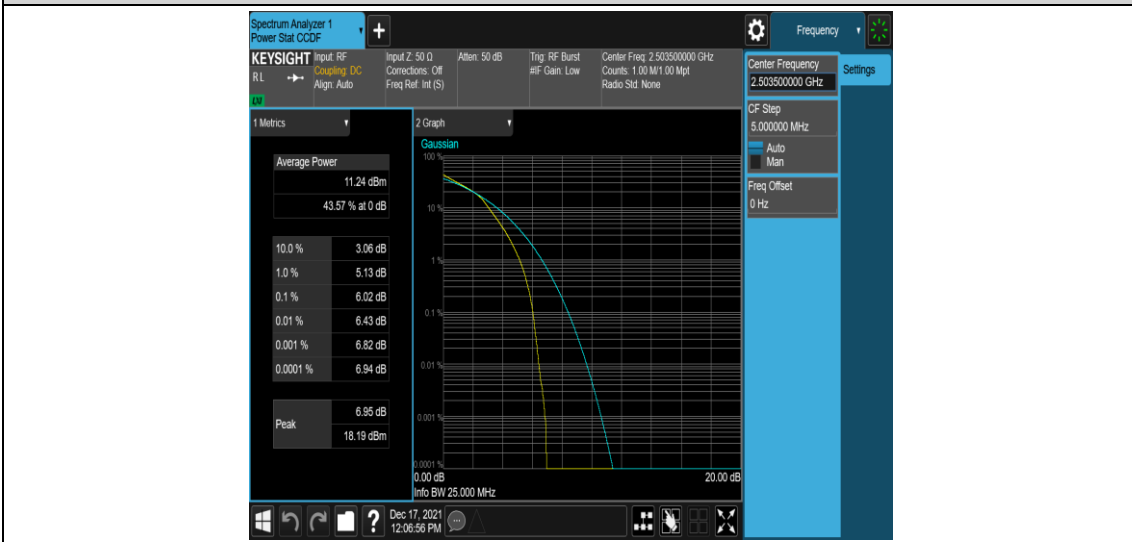
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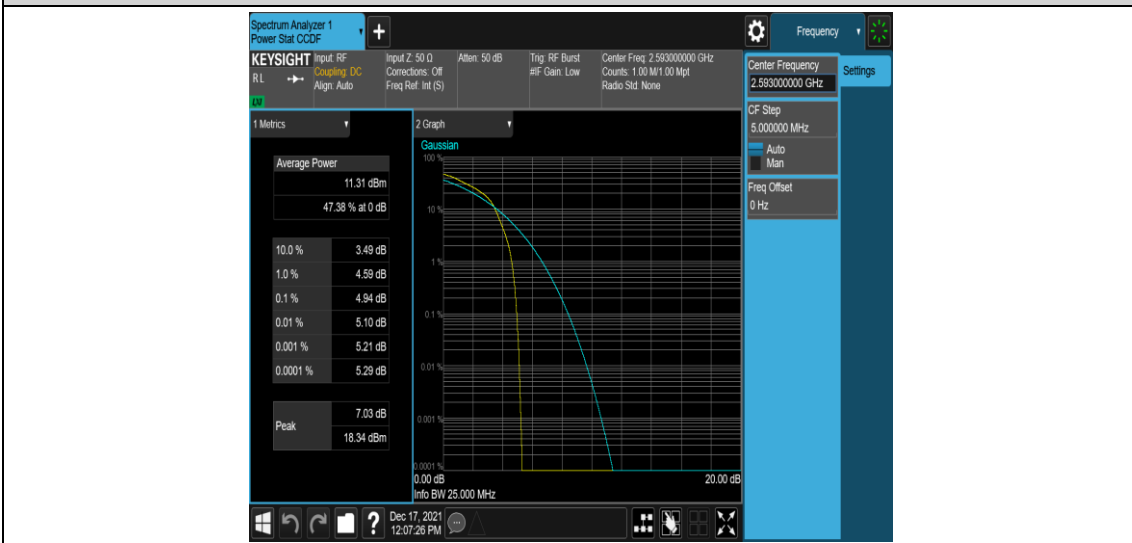
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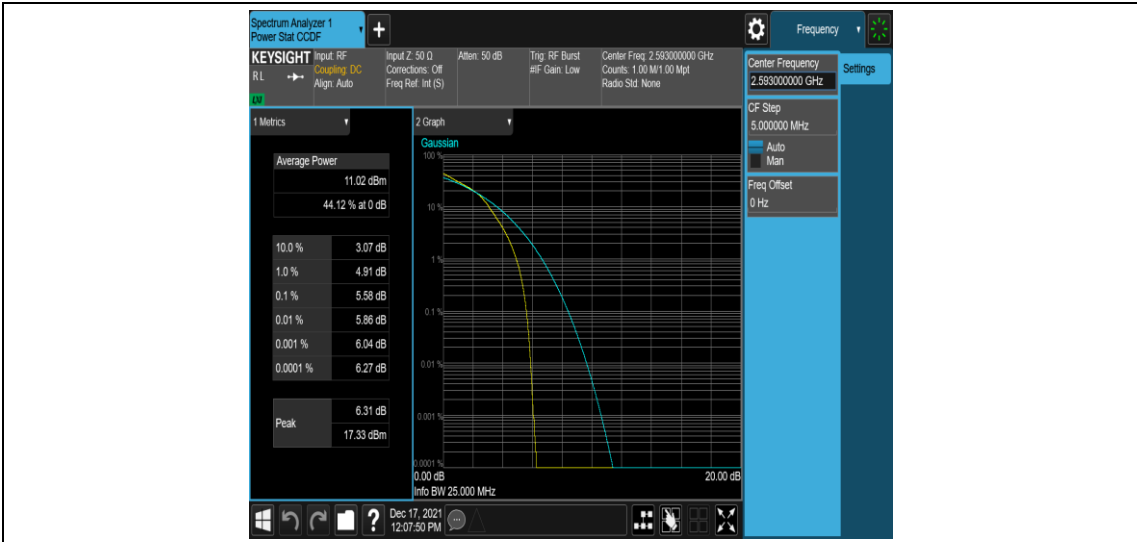
Band41-15MHz-16QAM-39725-1RB#0



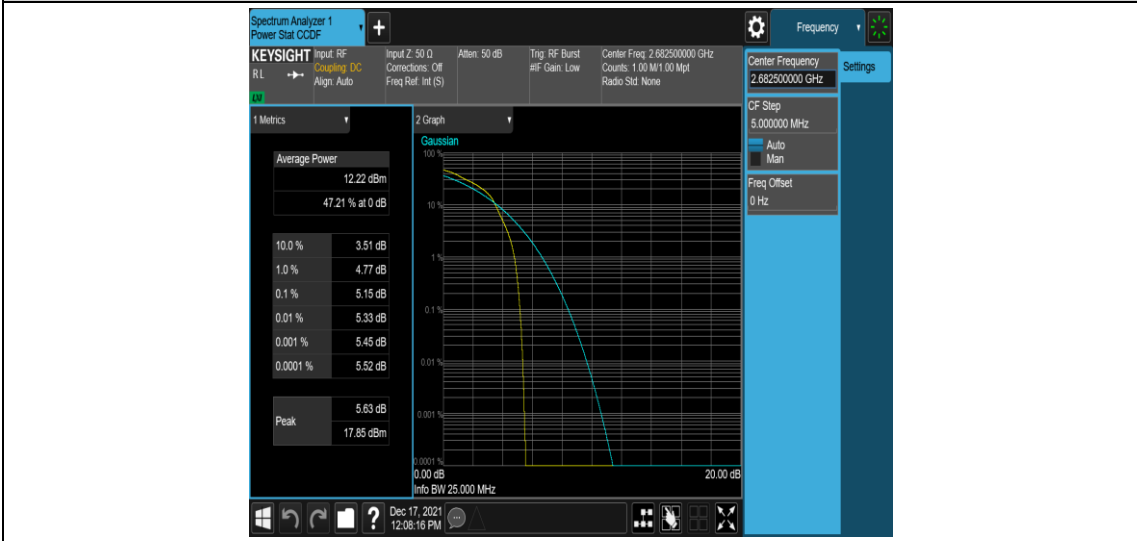
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Band41-15MHz-16QAM-40620-1RB#0



Band41-15MHz-16QAM-40620-75RB#0



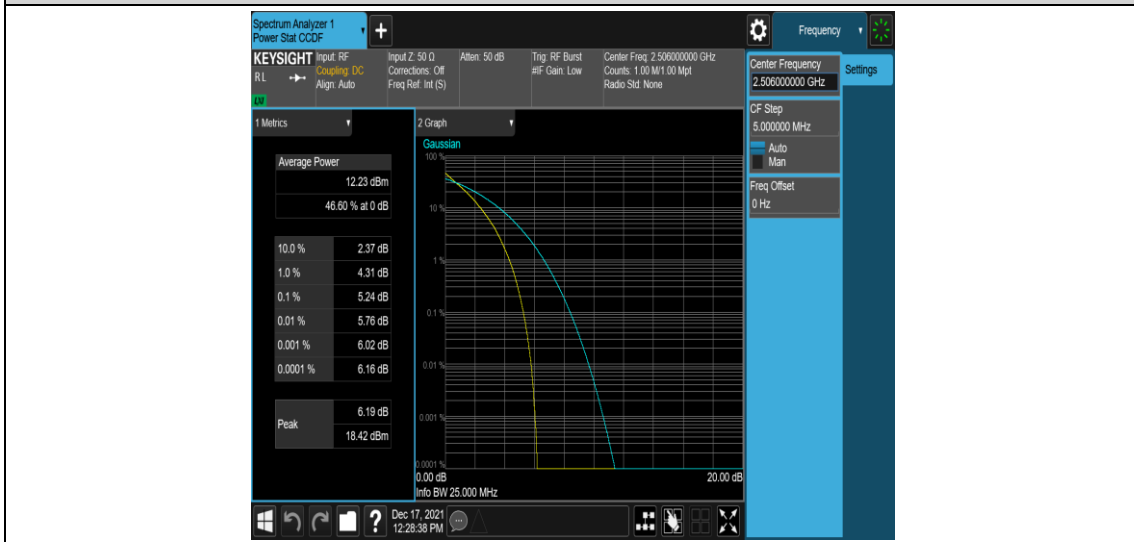
Band41-15MHz-16QAM-41515-1RB#0



Band41-15MHz-16QAM-41515-75RB#0



Band41-20MHz-QPSK-39750-1RB#0



Band41-20MHz-QPSK-39750-100RB#0



Band41-20MHz-QPSK-40620-1RB#0



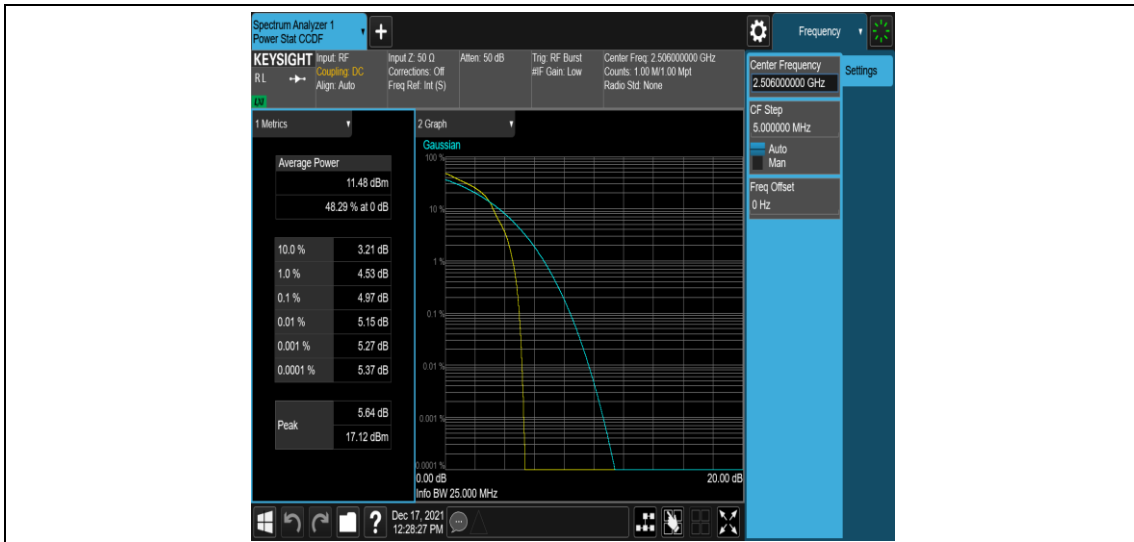
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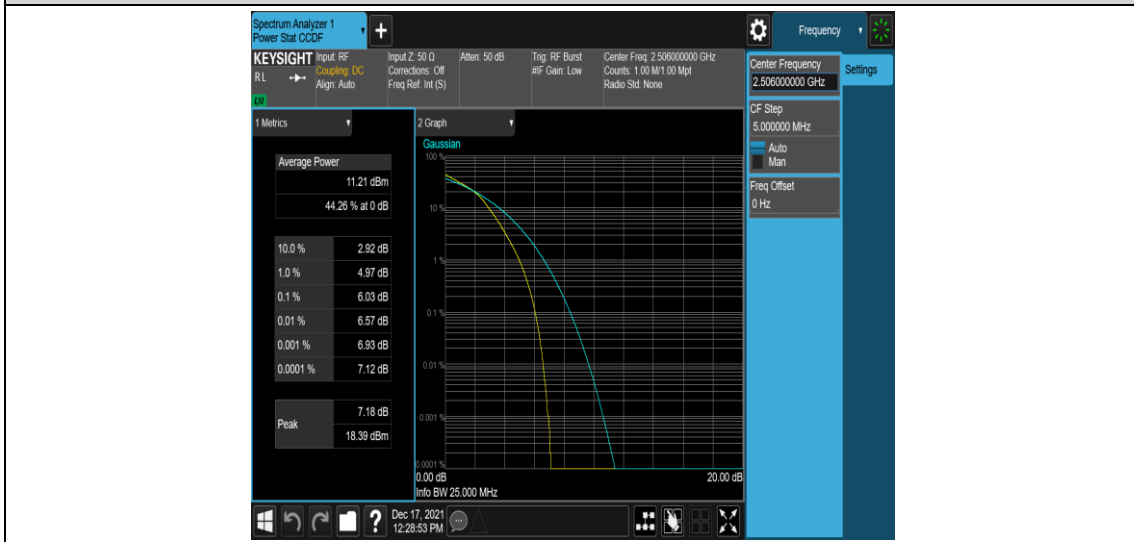
Band41-20MHz-QPSK-41490-1RB#0



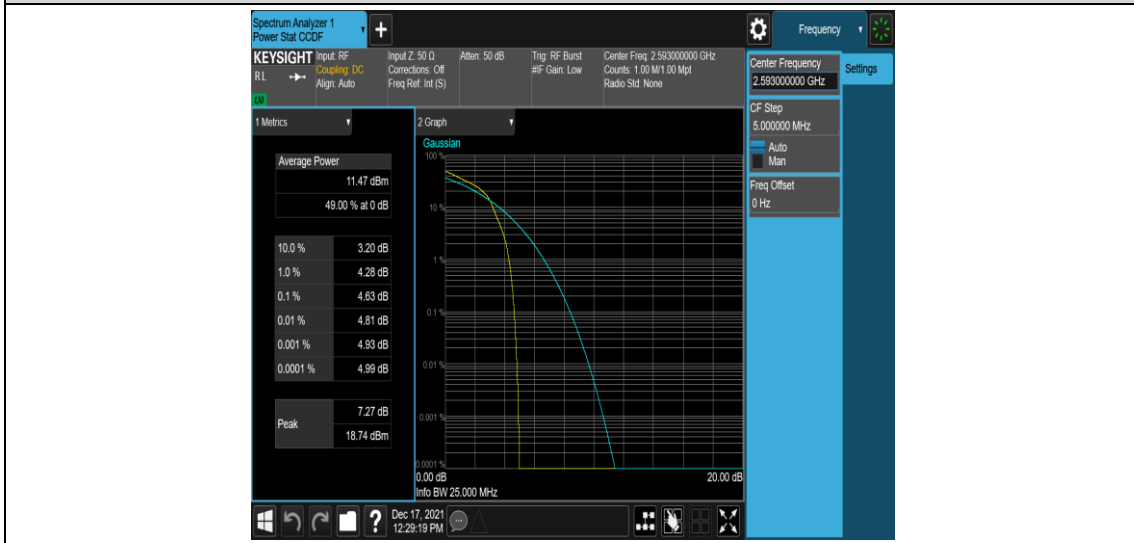
Band41-20MHz-QPSK-41490-100RB#0



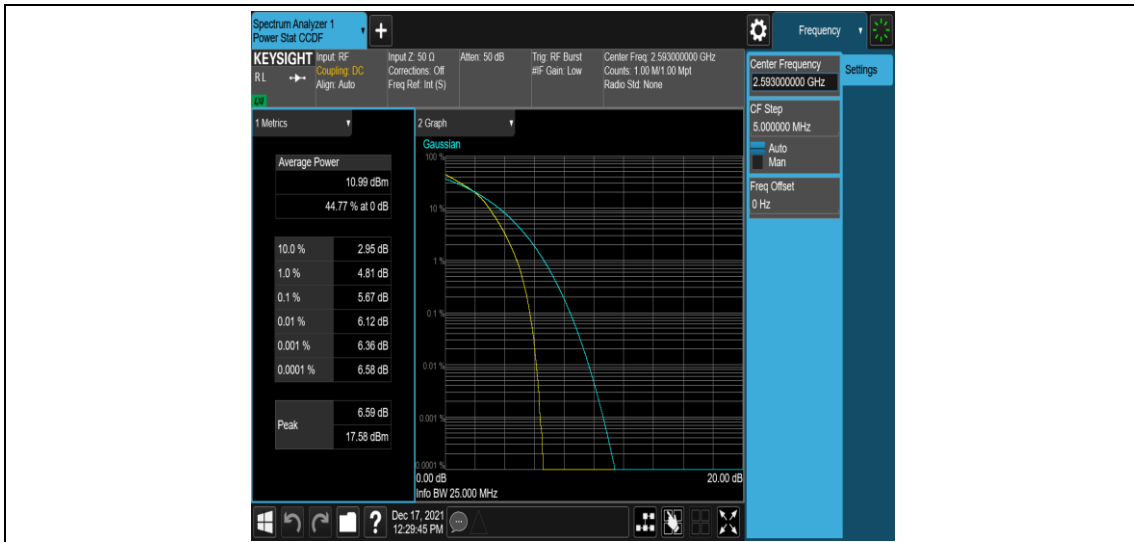
**Band41-20MHz-16QAM-39750-1RB#0**



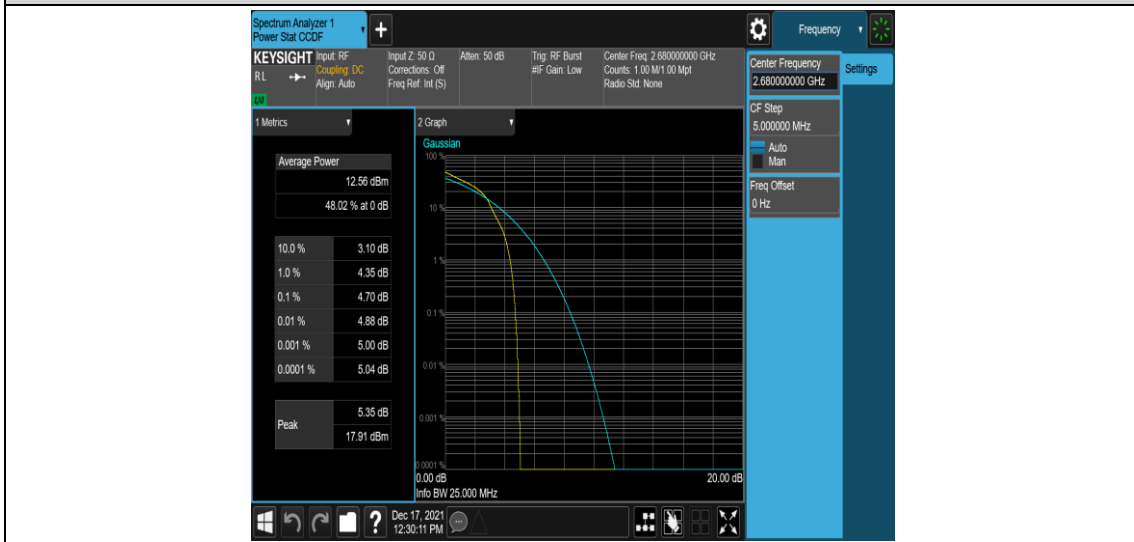
**Band41-20MHz-16QAM-39750-100RB#0**



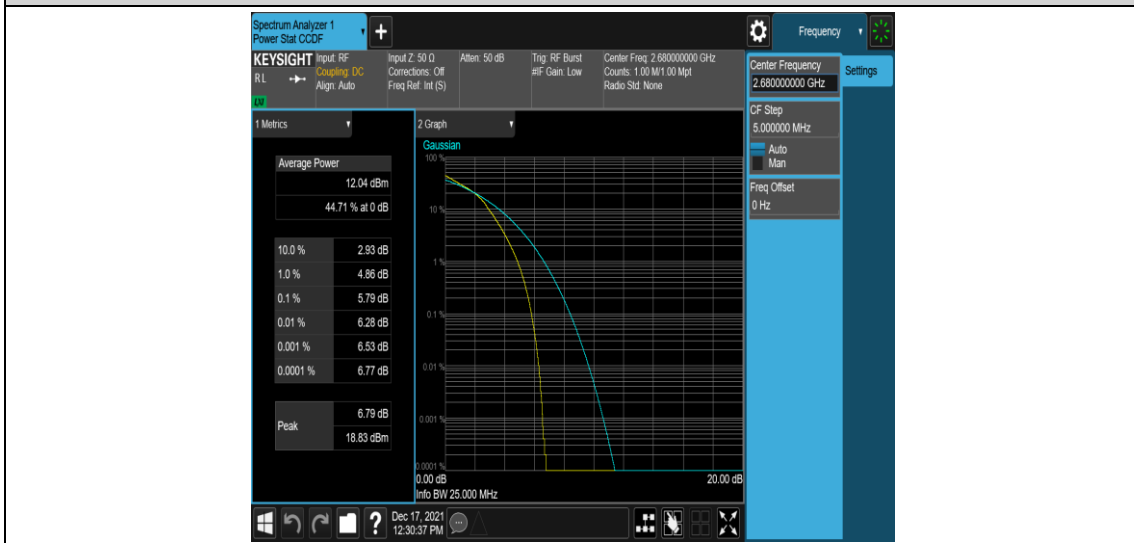
**Band41-20MHz-16QAM-40620-1RB#0**



Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-1RB#0



Band41-20MHz-16QAM-41490-100RB#0

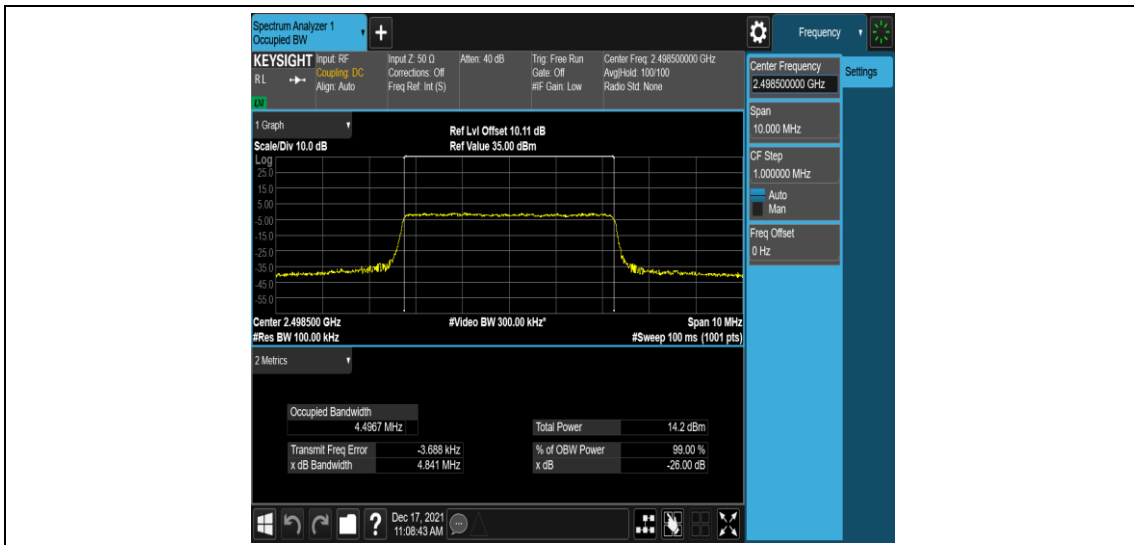


## Appendix C: 26dB Bandwidth and Occupied Bandwidth

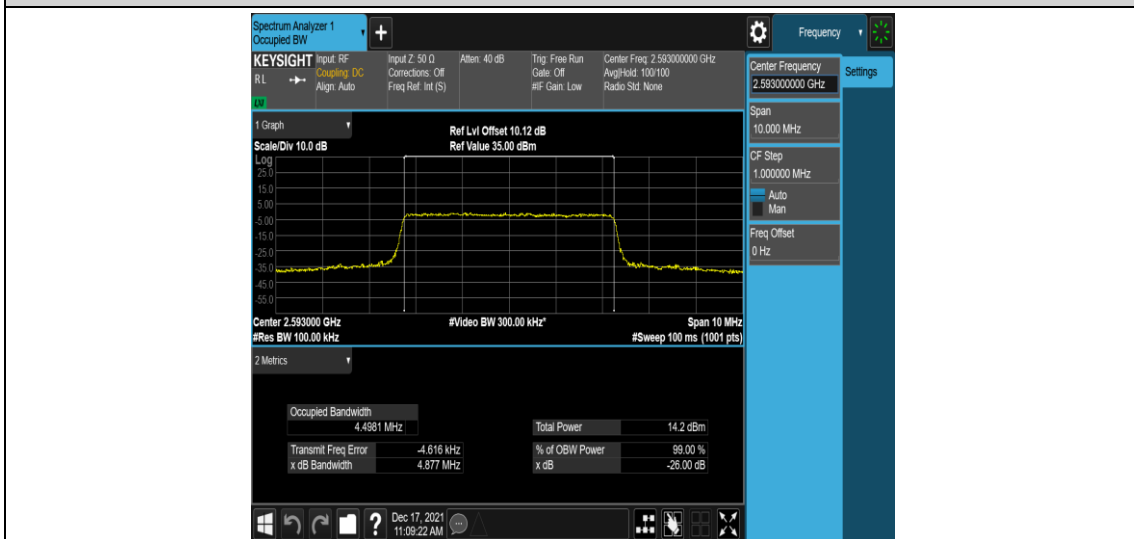
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4967	4.841	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4981	4.877	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4985	4.859	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4903	4.828	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4968	4.804	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4933	4.827	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9637	9.505	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9770	9.498	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9774	9.509	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9799	9.511	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9800	9.515	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9775	9.504	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.470	14.26	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.491	14.29	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.489	14.27	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.469	14.25	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.472	14.29	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.461	14.25	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.942	18.93	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.956	18.96	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.942	18.95	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.923	18.94	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.925	18.94	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.930	18.92	PASS

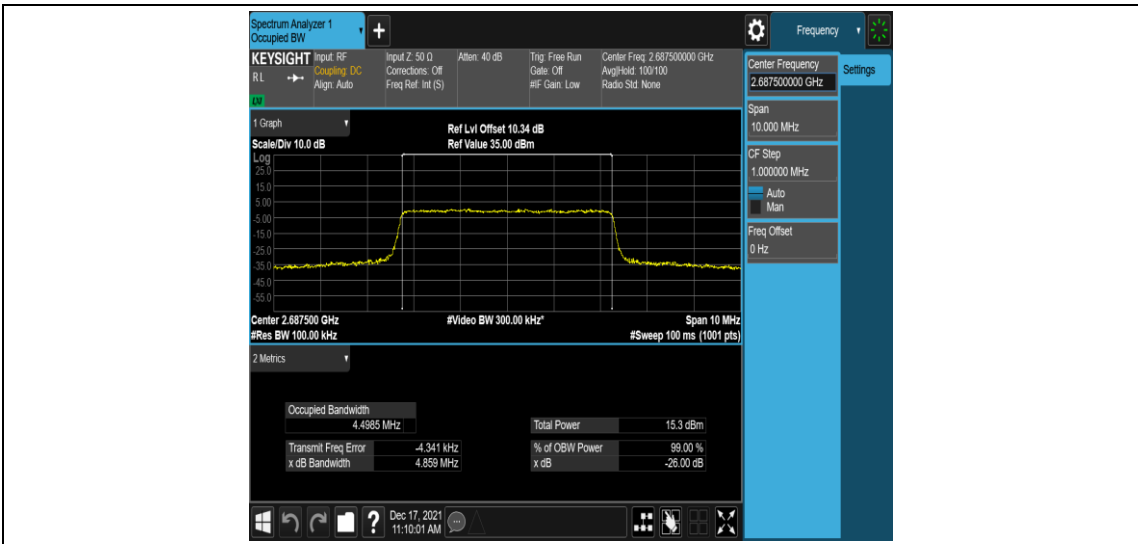
## Test Graphs



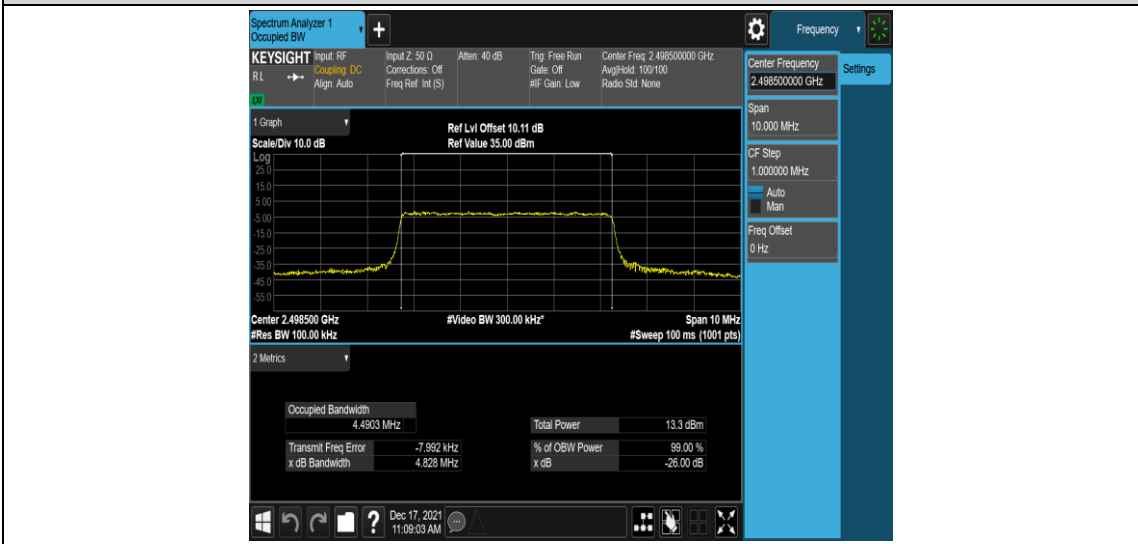
Band41-5MHz-QPSK-39675-25RB#0



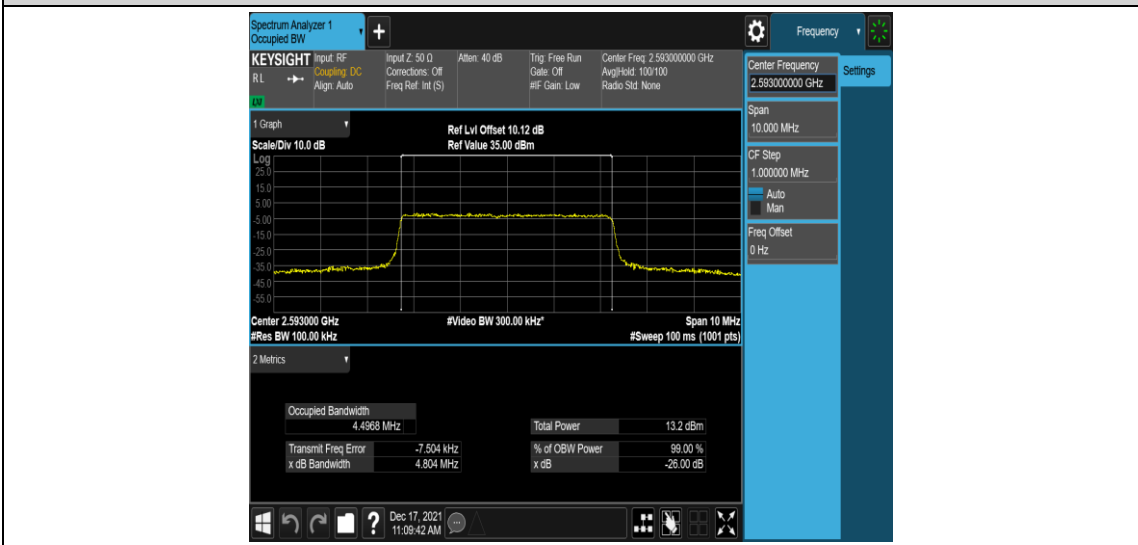
Band41-5MHz-QPSK-40620-25RB#0



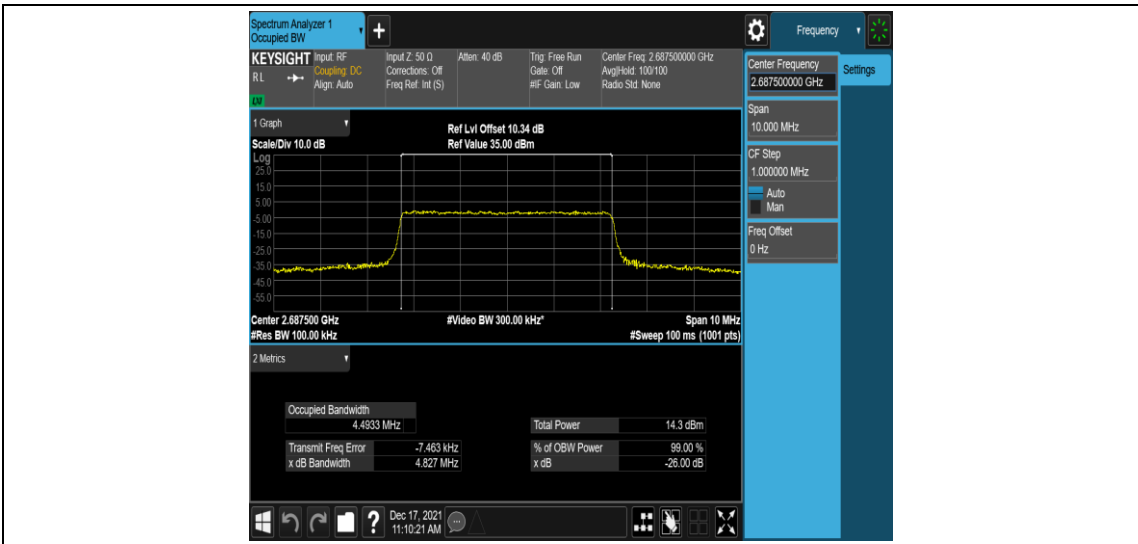
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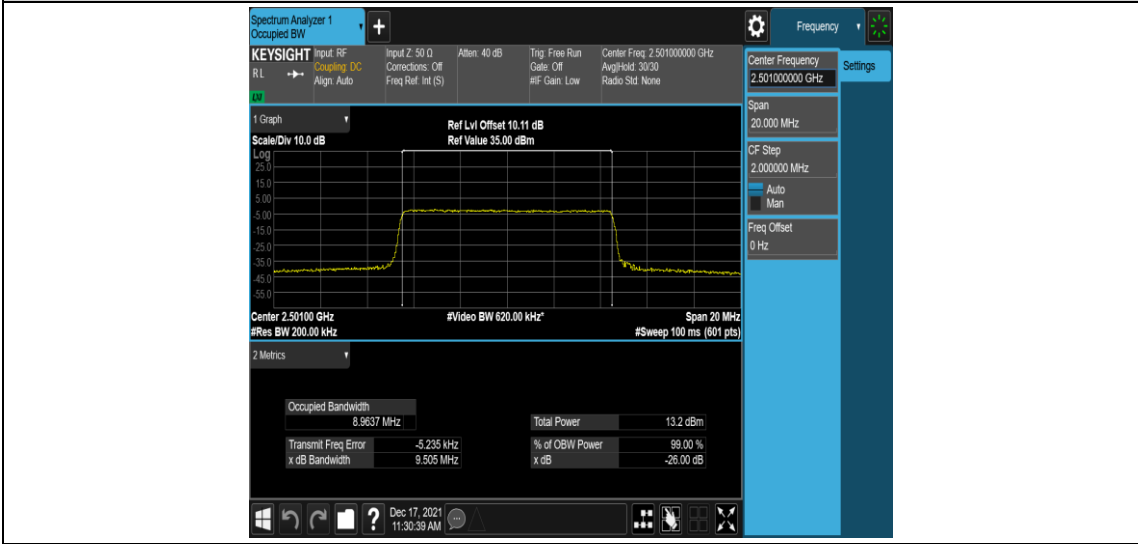
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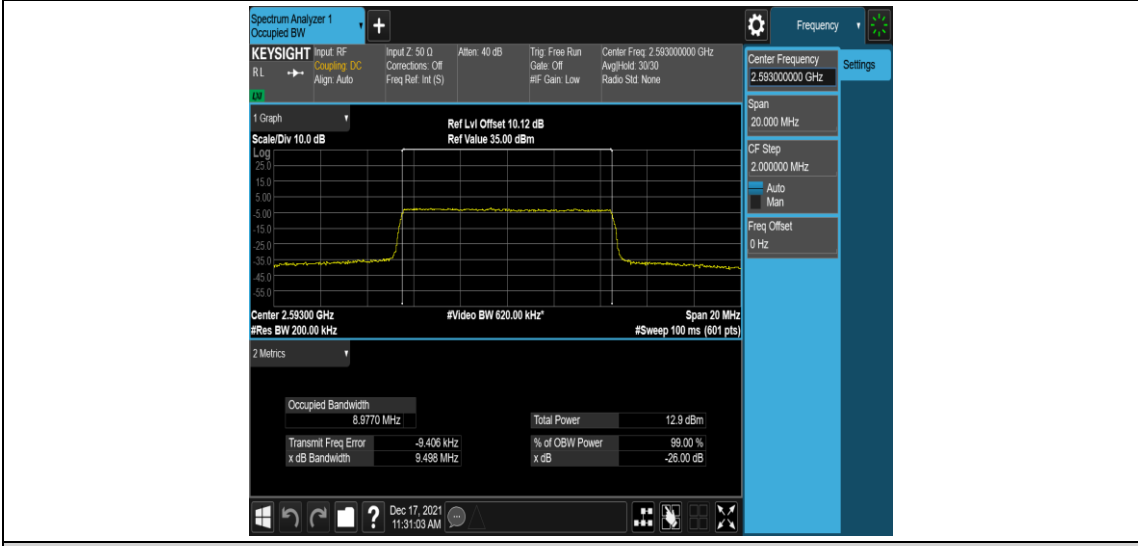
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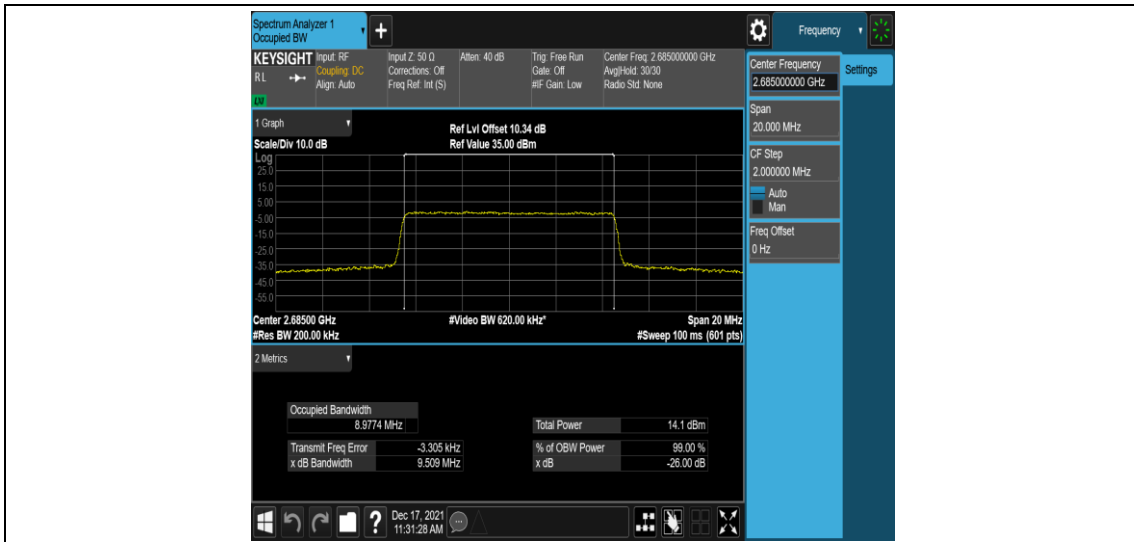
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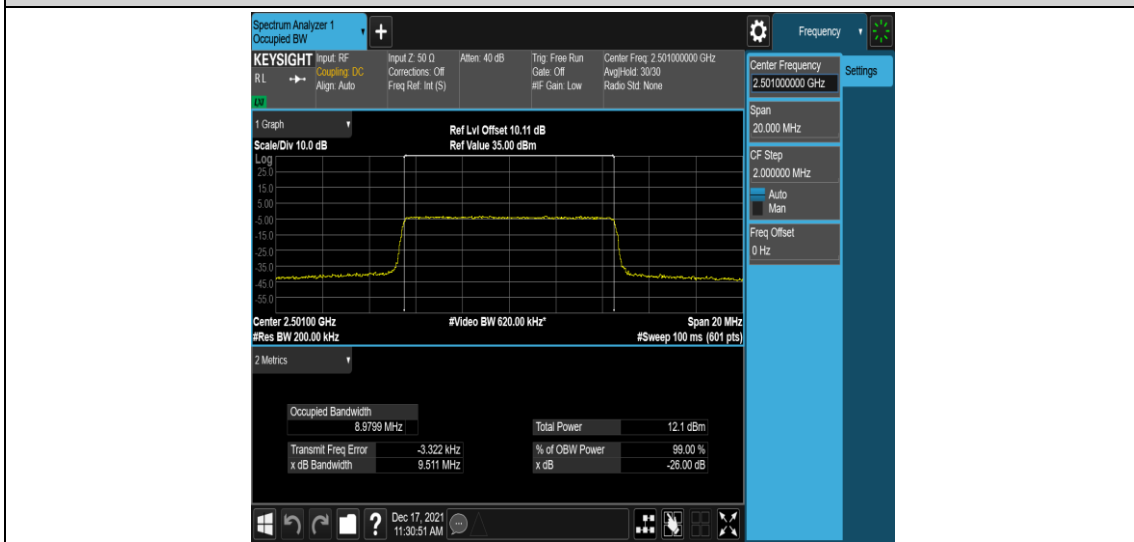
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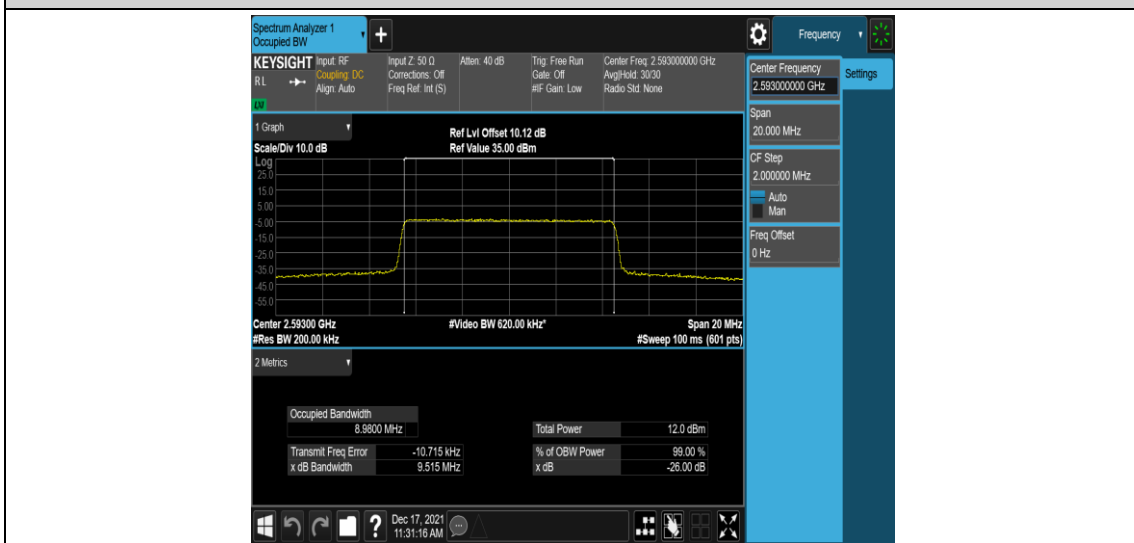
Band41-10MHz-QPSK-40620-50RB#0



Band41-10MHz-QPSK-41540-50RB#0



Band41-10MHz-16QAM-39700-50RB#0



Band41-10MHz-16QAM-40620-50RB#0