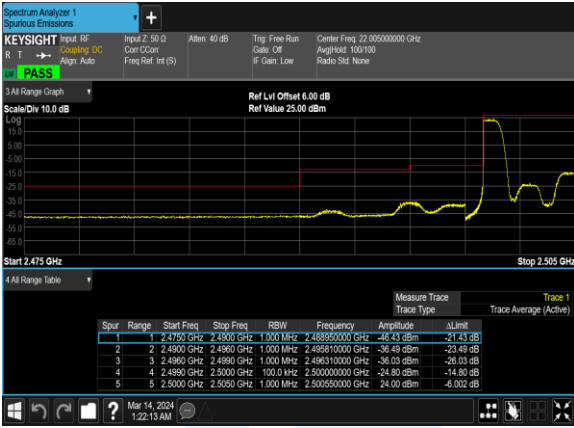
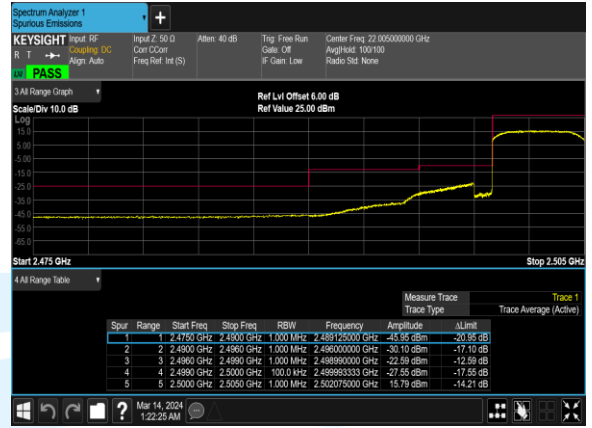


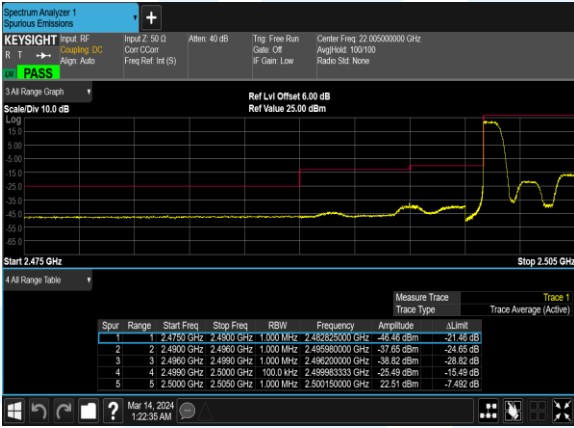
B7\_5M\_QPSK\_1@0\_CH\_20775



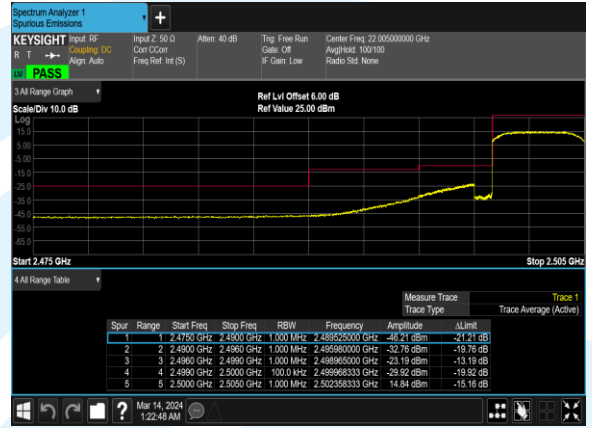
B7\_5M\_QPSK\_25@0\_CH\_20775



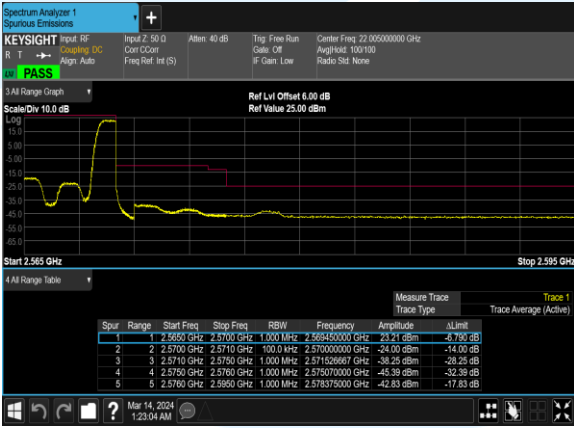
B7\_5M\_16QAM\_1@0\_CH\_20775



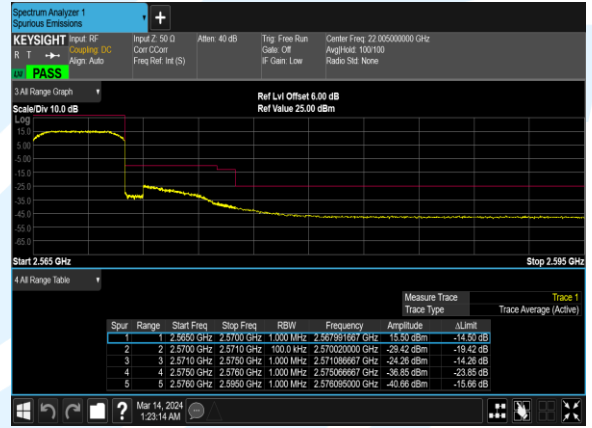
B7\_5M\_16QAM\_25@0\_CH\_20775



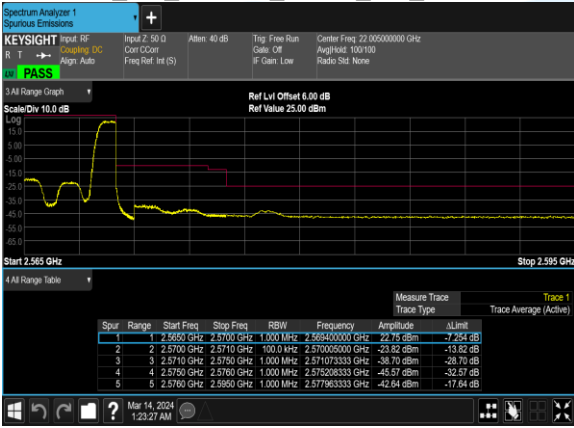
B7\_5M\_QPSK\_1@24\_CH\_21425



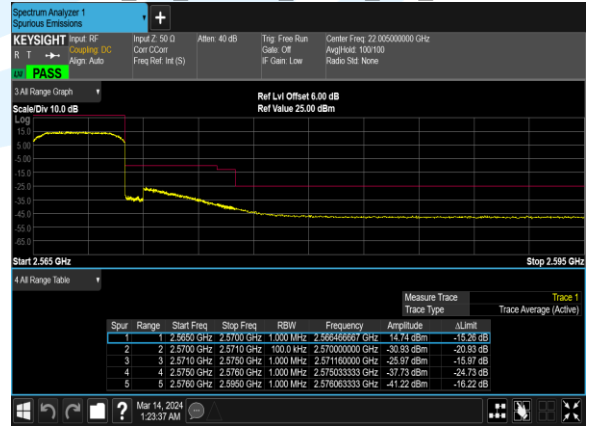
B7\_5M\_QPSK\_25@0\_CH\_21425



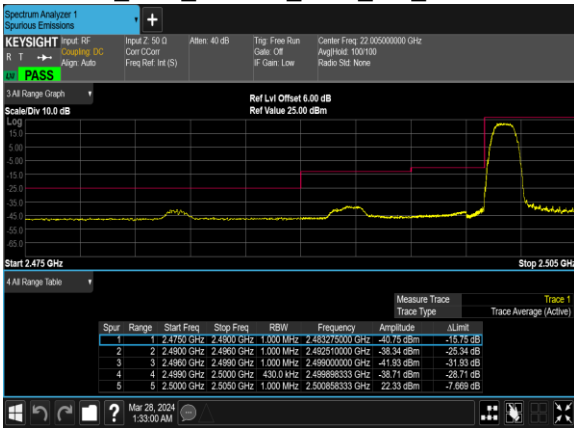
B7\_5M\_16QAM\_1@24\_CH\_21425



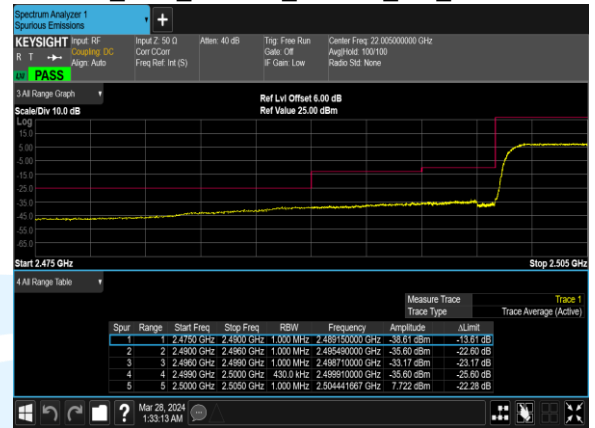
B7\_5M\_16QAM\_25@0\_CH\_21425



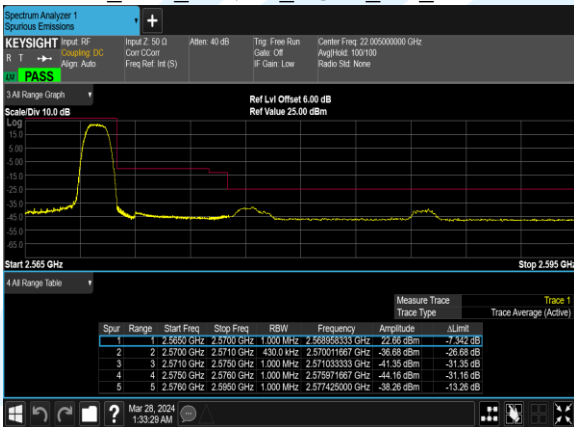
B7\_20M\_64QAM\_1@0\_CH\_20850



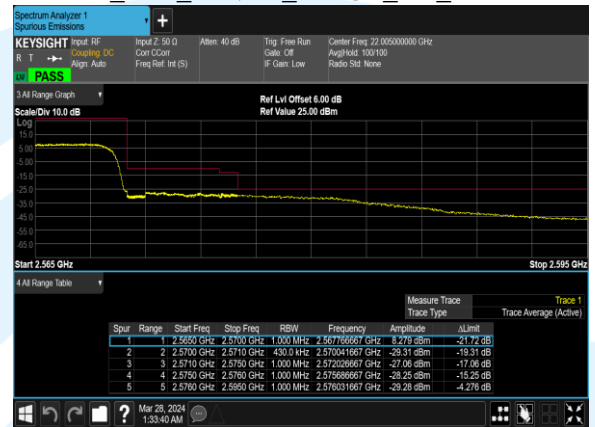
B7\_20M\_64QAM\_100@0\_CH\_20850



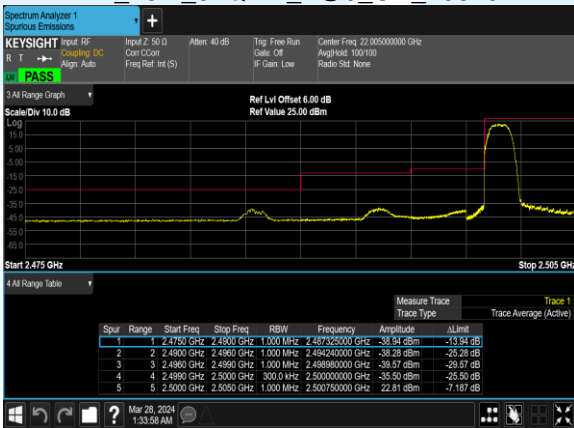
B7\_20M\_64QAM\_1@99\_CH\_21350



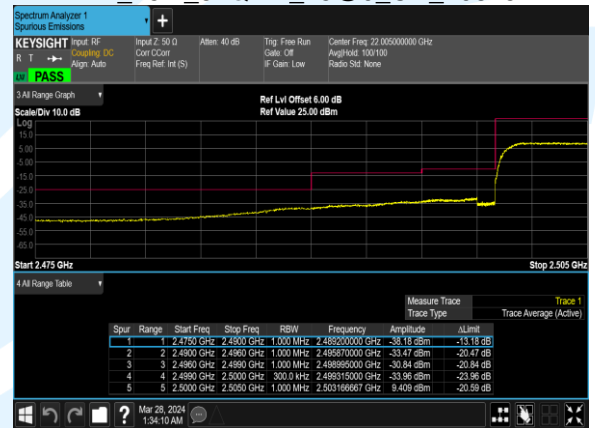
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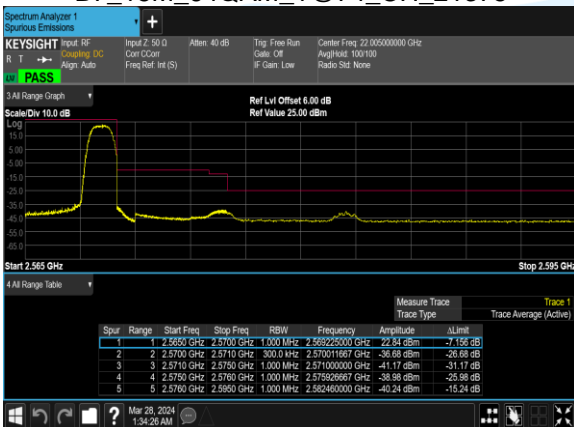
B7\_15M\_64QAM\_1@0\_CH\_20825



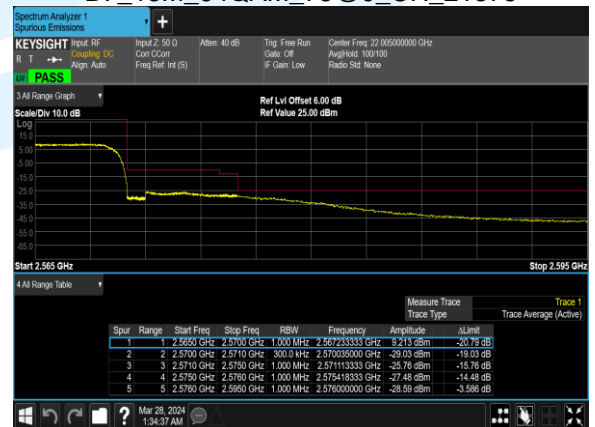
B7\_15M\_64QAM\_75@0\_CH\_20825



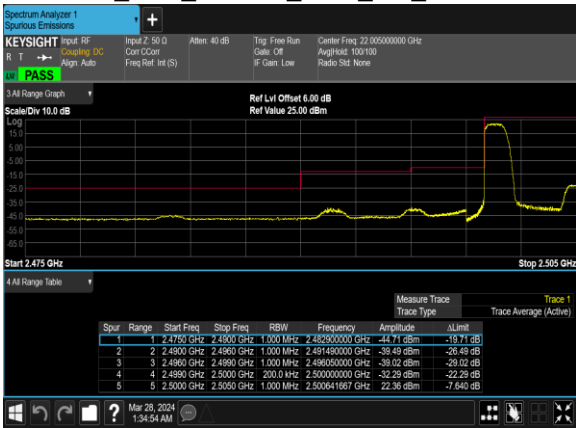
B7\_15M\_64QAM\_1@74\_CH\_21375



B7\_15M\_64QAM\_75@0\_CH\_21375



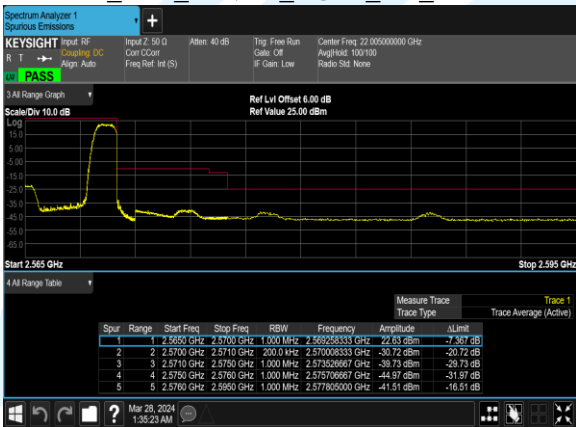
B7\_10M\_64QAM\_1@0\_CH\_20800



B7\_10M\_64QAM\_50@0\_CH\_20800



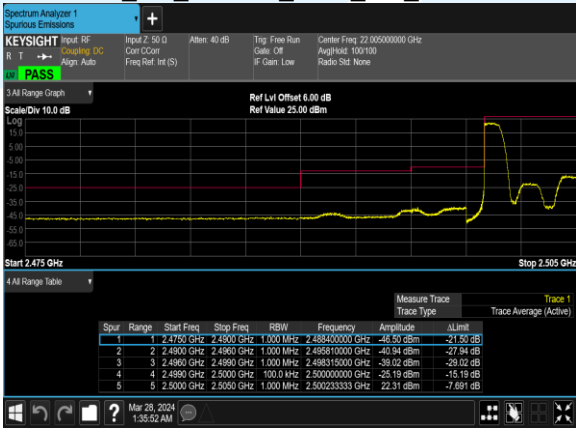
B7\_10M\_64QAM\_1@49\_CH\_21400



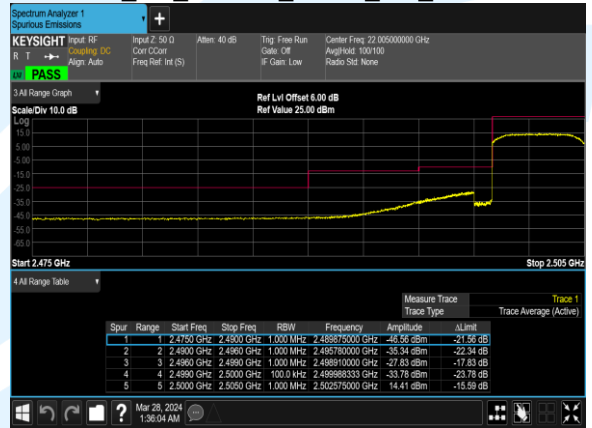
B7\_10M\_64QAM\_50@0\_CH\_21400



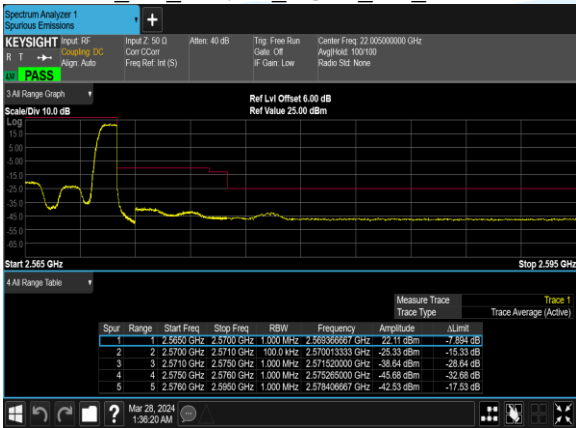
B7\_5M\_64QAM\_1@0\_CH\_20775



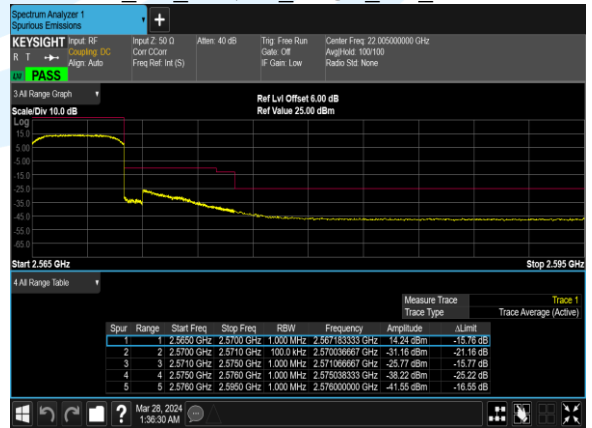
B7\_5M\_64QAM\_25@0\_CH\_20775



B7\_5M\_64QAM\_1@24\_CH\_21425



B7\_5M\_64QAM\_25@0\_CH\_21425



### A.5 LTE BAND 12

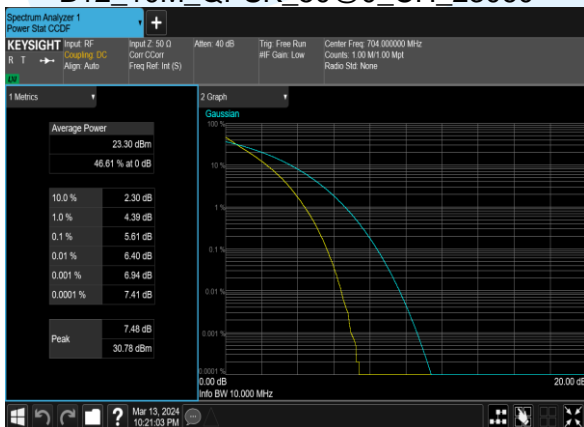
#### Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
12	10.0	23060	704.0	QPSK	50@0	5.61	13	PASS
12	10.0	23060	704.0	16QAM	50@0	6.34	13	PASS
12	10.0	23095	707.5	QPSK	50@0	5.64	13	PASS
12	10.0	23095	707.5	16QAM	50@0	6.28	13	PASS
12	10.0	23130	711.0	QPSK	50@0	5.50	13	PASS
12	10.0	23130	711.0	16QAM	50@0	6.25	13	PASS
12	5.0	23035	701.5	QPSK	25@0	5.63	13	PASS
12	5.0	23035	701.5	16QAM	25@0	6.27	13	PASS
12	5.0	23095	707.5	QPSK	25@0	5.56	13	PASS
12	5.0	23095	707.5	16QAM	25@0	6.27	13	PASS
12	5.0	23155	713.5	QPSK	25@0	5.35	13	PASS
12	5.0	23155	713.5	16QAM	25@0	6.04	13	PASS
12	3.0	23025	700.5	QPSK	15@0	5.67	13	PASS
12	3.0	23025	700.5	16QAM	15@0	6.38	13	PASS
12	3.0	23095	707.5	QPSK	15@0	5.50	13	PASS
12	3.0	23095	707.5	16QAM	15@0	6.30	13	PASS
12	3.0	23165	714.5	QPSK	15@0	5.35	13	PASS
12	3.0	23165	714.5	16QAM	15@0	6.06	13	PASS
12	1.4	23017	699.7	QPSK	6@0	5.62	13	PASS
12	1.4	23017	699.7	16QAM	6@0	6.31	13	PASS
12	1.4	23095	707.5	QPSK	6@0	5.56	13	PASS
12	1.4	23095	707.5	16QAM	6@0	6.31	13	PASS
12	1.4	23173	715.3	QPSK	6@0	5.09	13	PASS
12	1.4	23173	715.3	16QAM	6@0	5.78	13	PASS

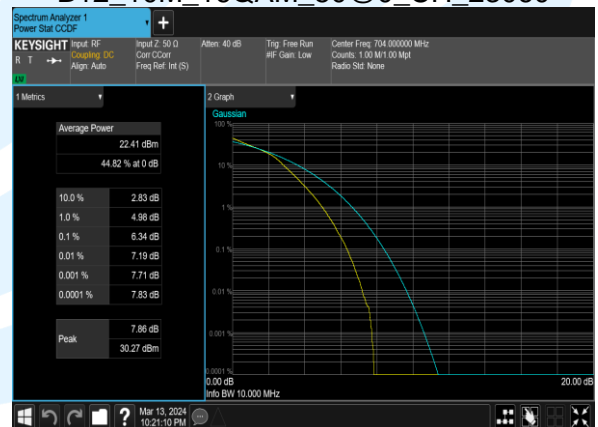
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
12	10.0	23060	704.0	64QAM	50@0	6.29	13	PASS
12	10.0	23095	707.5	64QAM	50@0	6.28	13	PASS
12	10.0	23130	711.0	64QAM	50@0	6.22	13	PASS
12	5.0	23035	701.5	64QAM	25@0	6.26	13	PASS
12	5.0	23095	707.5	64QAM	25@0	6.21	13	PASS
12	5.0	23155	713.5	64QAM	25@0	5.96	13	PASS
12	3.0	23025	700.5	64QAM	15@0	6.38	13	PASS
12	3.0	23095	707.5	64QAM	15@0	6.29	13	PASS
12	3.0	23165	714.5	64QAM	15@0	5.98	13	PASS
12	1.4	23017	699.7	64QAM	6@0	6.28	13	PASS
12	1.4	23095	707.5	64QAM	6@0	6.29	13	PASS
12	1.4	23173	715.3	64QAM	6@0	5.65	13	PASS

#### Test Graphs

B12\_10M\_QPSK\_50@0\_CH\_23060



B12\_10M\_16QAM\_50@0\_CH\_23060



B12\_10M\_QPSK\_50@0\_CH\_23095



B12\_10M\_16QAM\_50@0\_CH\_23095



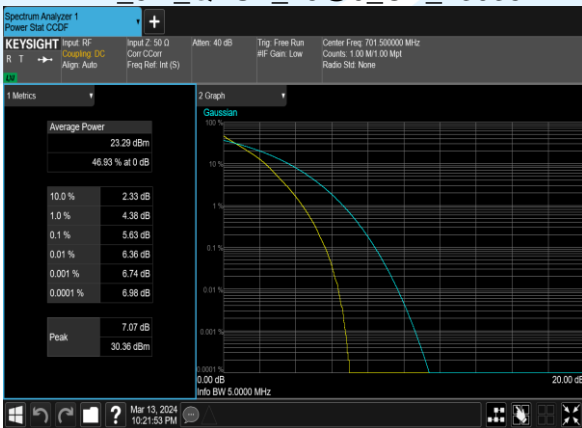
B12\_10M\_QPSK\_50@0\_CH\_23130



B12\_10M\_16QAM\_50@0\_CH\_23130



B12\_5M\_QPSK\_25@0\_CH\_23035



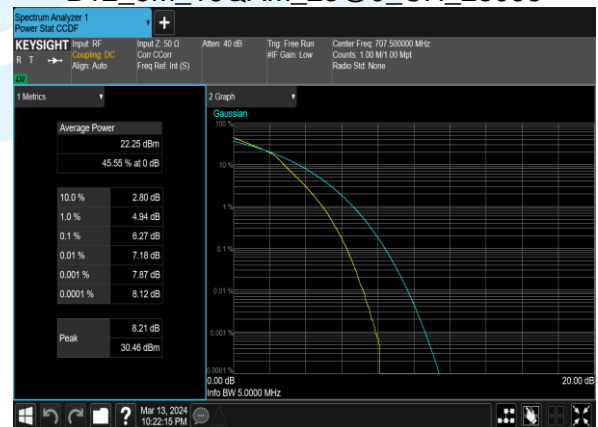
B12\_5M\_16QAM\_25@0\_CH\_23035



B12\_5M\_QPSK\_25@0\_CH\_23095



B12\_5M\_16QAM\_25@0\_CH\_23095





B12\_5M\_QPSK\_25@0\_CH\_23155



B12\_5M\_16QAM\_25@0\_CH\_23155



B12\_3M\_QPSK\_15@0\_CH\_23025



B12\_3M\_16QAM\_15@0\_CH\_23025



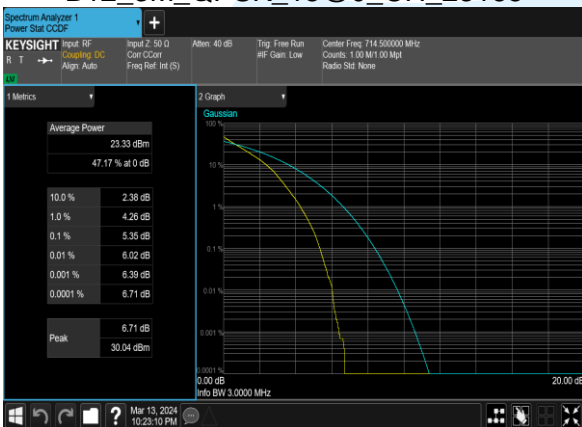
B12\_3M\_QPSK\_15@0\_CH\_23095



B12\_3M\_16QAM\_15@0\_CH\_23095



B12\_3M\_QPSK\_15@0\_CH\_23165



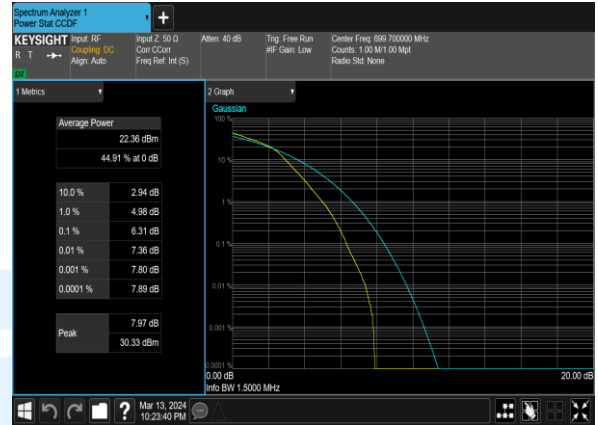
B12\_3M\_16QAM\_15@0\_CH\_23165



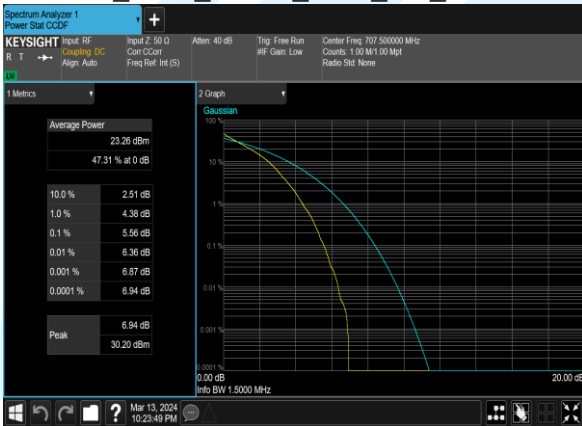
B12\_1.4M\_QPSK\_6@0\_CH\_23017



B12\_1.4M\_16QAM\_6@0\_CH\_23017



B12\_1.4M\_QPSK\_6@0\_CH\_23095



B12\_1.4M\_16QAM\_6@0\_CH\_23095



B12\_1.4M\_QPSK\_6@0\_CH\_23173



B12\_1.4M\_16QAM\_6@0\_CH\_23173



B12\_10M\_64QAM\_50@0\_CH\_23060



B12\_10M\_64QAM\_50@0\_CH\_23095



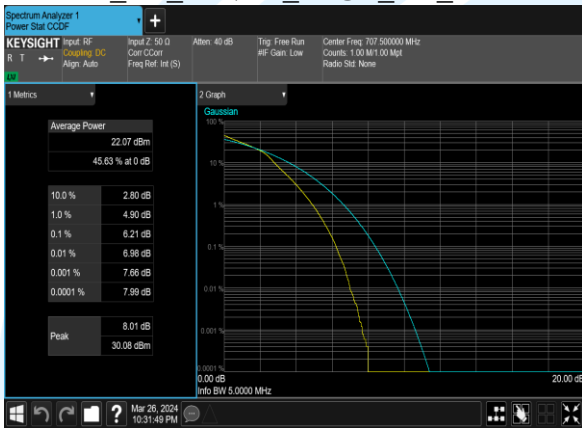
B12\_10M\_64QAM\_50@0\_CH\_23130



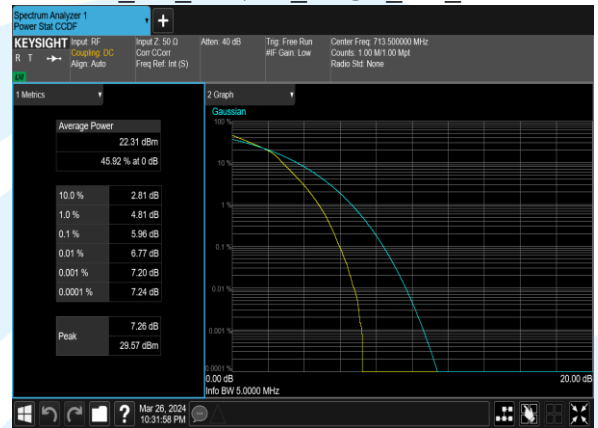
B12\_5M\_64QAM\_25@0\_CH\_23035



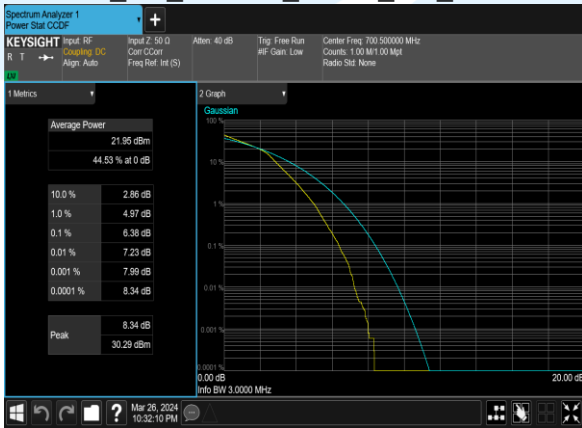
B12\_5M\_64QAM\_25@0\_CH\_23095



B12\_5M\_64QAM\_25@0\_CH\_23155



B12\_3M\_64QAM\_15@0\_CH\_23025



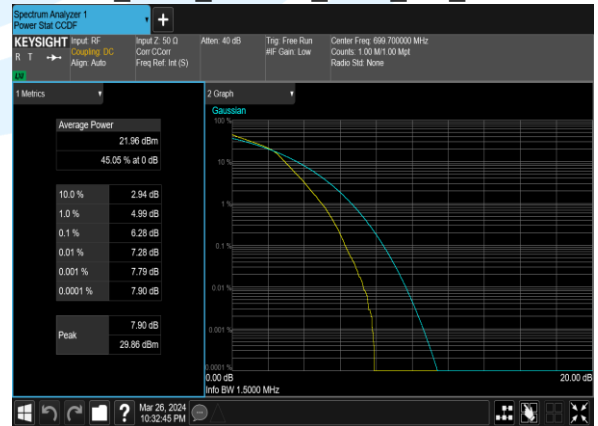
B12\_3M\_64QAM\_15@0\_CH\_23095



B12\_3M\_64QAM\_15@0\_CH\_23165



B12\_1.4M\_64QAM\_6@0\_CH\_23017

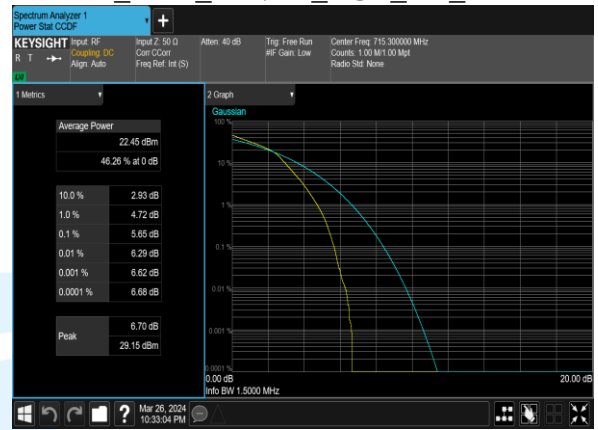




B12\_1.4M\_64QAM\_6@0\_CH\_23095



B12\_1.4M\_64QAM\_6@0\_CH\_23173



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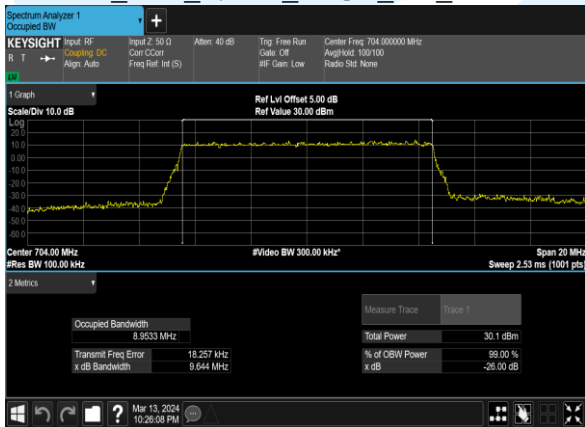
## Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
12	10.0	23060	704.0	QPSK	50@0	8.9533	9.644
12	10.0	23060	704.0	16QAM	50@0	8.9349	9.511
12	10.0	23095	707.5	QPSK	50@0	8.9369	9.660
12	10.0	23095	707.5	16QAM	50@0	8.9433	9.683
12	10.0	23130	711.0	QPSK	50@0	8.9318	9.616
12	10.0	23130	711.0	16QAM	50@0	8.9381	9.629
12	5.0	23035	701.5	QPSK	25@0	4.4586	4.833
12	5.0	23035	701.5	16QAM	25@0	4.4613	4.885
12	5.0	23095	707.5	QPSK	25@0	4.4574	4.852
12	5.0	23095	707.5	16QAM	25@0	4.4450	4.860
12	5.0	23155	713.5	QPSK	25@0	4.4454	4.862
12	5.0	23155	713.5	16QAM	25@0	4.4480	4.879
12	3.0	23025	700.5	QPSK	15@0	2.6830	2.974
12	3.0	23025	700.5	16QAM	15@0	2.6795	2.968
12	3.0	23095	707.5	QPSK	15@0	2.6878	2.965
12	3.0	23095	707.5	16QAM	15@0	2.6837	2.968
12	3.0	23165	714.5	QPSK	15@0	2.6860	2.957
12	3.0	23165	714.5	16QAM	15@0	2.6836	2.963
12	1.4	23017	699.7	QPSK	6@0	1.0764	1.209
12	1.4	23017	699.7	16QAM	6@0	1.0821	1.220
12	1.4	23095	707.5	QPSK	6@0	1.0798	1.218
12	1.4	23095	707.5	16QAM	6@0	1.0771	1.207
12	1.4	23173	715.3	QPSK	6@0	1.0766	1.213
12	1.4	23173	715.3	16QAM	6@0	1.0804	1.222

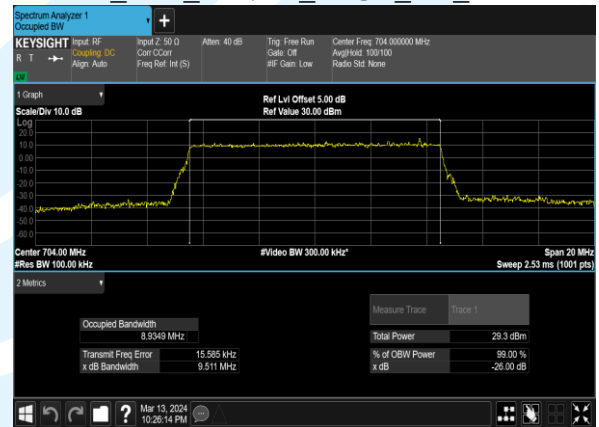
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
12	10.0	23060	704.0	64QAM	50@0	8.9493	9.681
12	10.0	23095	707.5	64QAM	50@0	8.9421	9.656
12	10.0	23130	711.0	64QAM	50@0	8.9300	9.651
12	5.0	23035	701.5	64QAM	25@0	4.4527	4.873
12	5.0	23095	707.5	64QAM	25@0	4.4657	4.862
12	5.0	23155	713.5	64QAM	25@0	4.4527	4.867
12	3.0	23025	700.5	64QAM	15@0	2.6754	2.984
12	3.0	23095	707.5	64QAM	15@0	2.6861	2.974
12	3.0	23165	714.5	64QAM	15@0	2.6789	2.977
12	1.4	23017	699.7	64QAM	6@0	1.0794	1.221
12	1.4	23095	707.5	64QAM	6@0	1.0755	1.214
12	1.4	23173	715.3	64QAM	6@0	1.0795	1.217

## Test Graphs

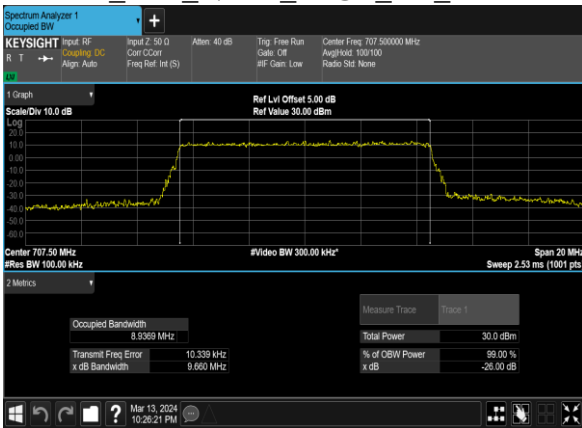
B12\_10M\_QPSK\_50@0\_CH\_23060



B12\_10M\_16QAM\_50@0\_CH\_23060



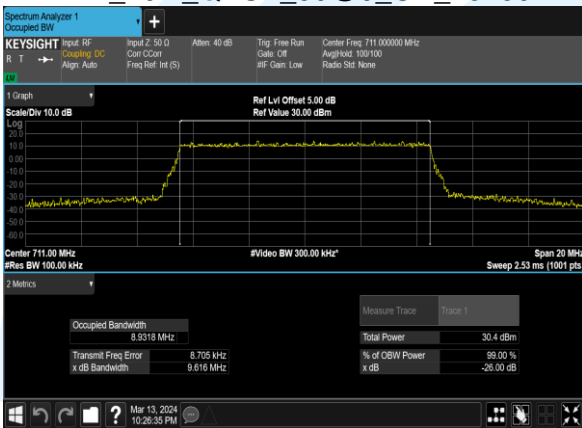
B12\_10M\_QPSK\_50@0\_CH\_23095



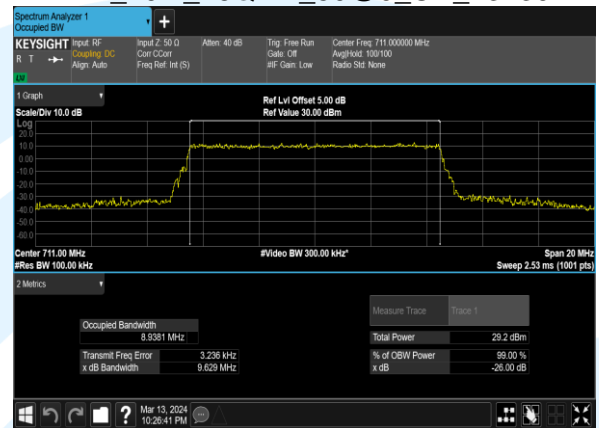
B12\_10M\_16QAM\_50@0\_CH\_23095



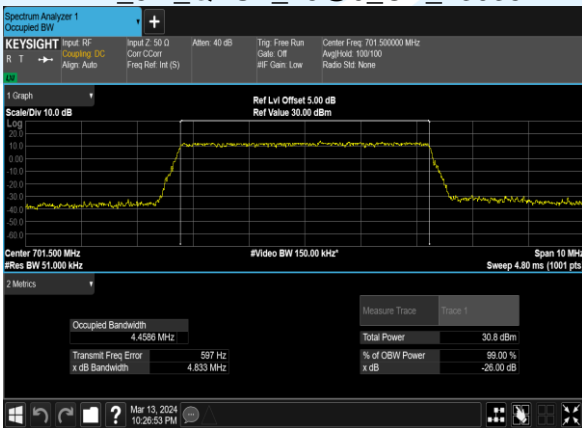
B12\_10M\_QPSK\_50@0\_CH\_23130



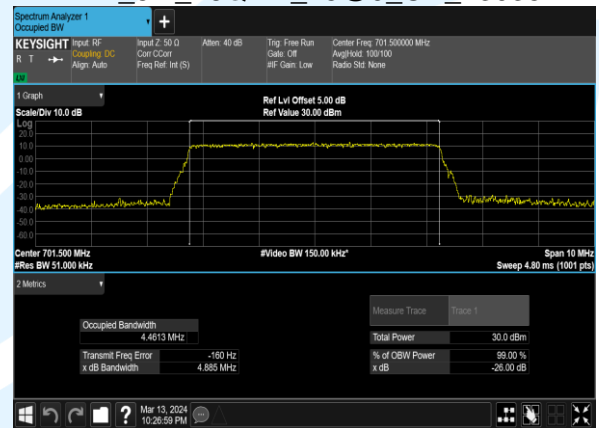
B12\_10M\_16QAM\_50@0\_CH\_23130



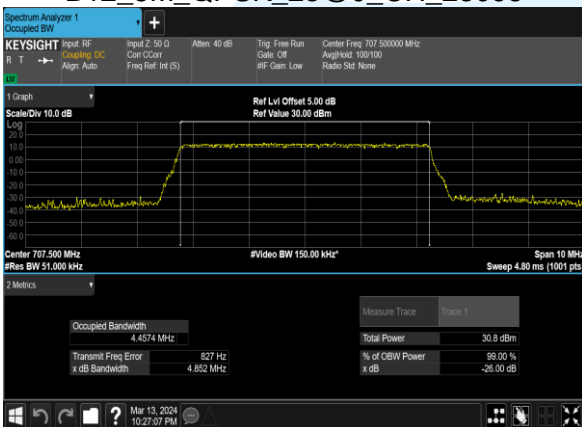
B12\_5M\_QPSK\_25@0\_CH\_23035



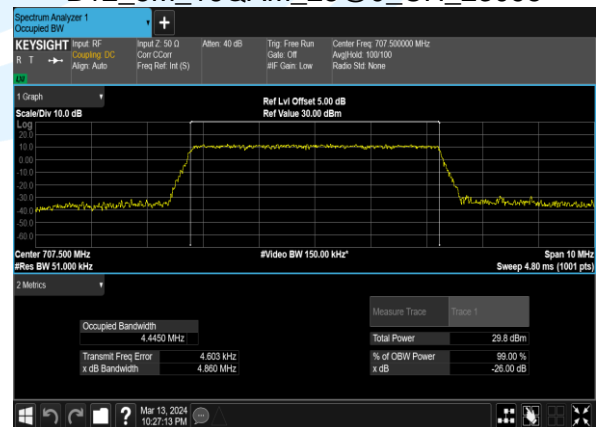
B12\_5M\_16QAM\_25@0\_CH\_23035



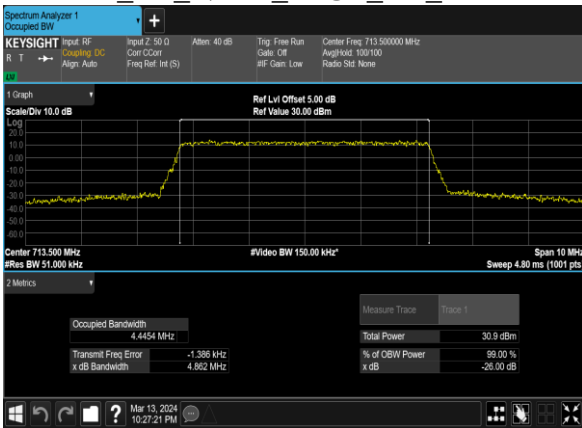
B12\_5M\_QPSK\_25@0\_CH\_23095



B12\_5M\_16QAM\_25@0\_CH\_23095



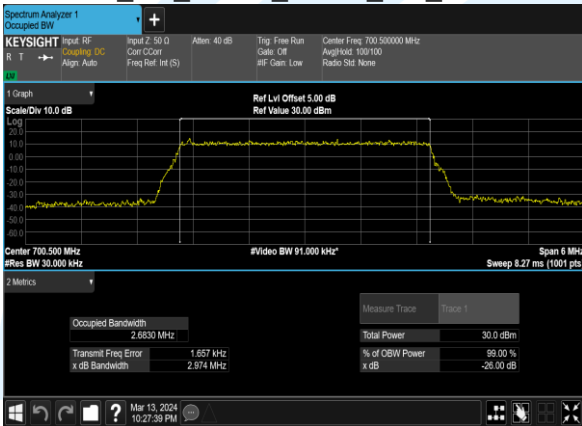
B12\_5M\_QPSK\_25@0\_CH\_23155



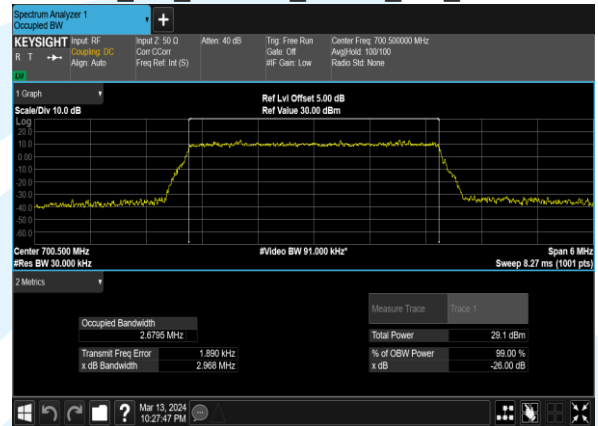
B12\_5M\_16QAM\_25@0\_CH\_23155



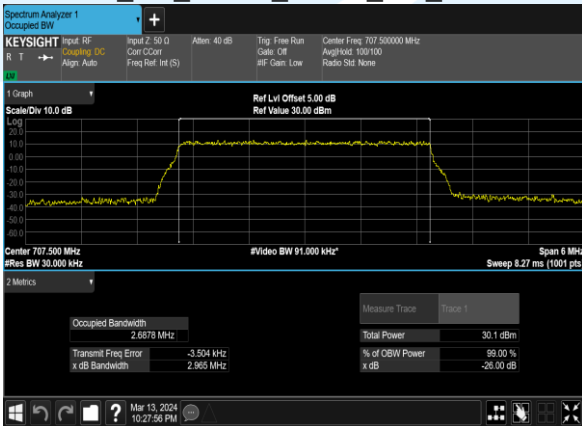
B12\_3M\_QPSK\_15@0\_CH\_23025



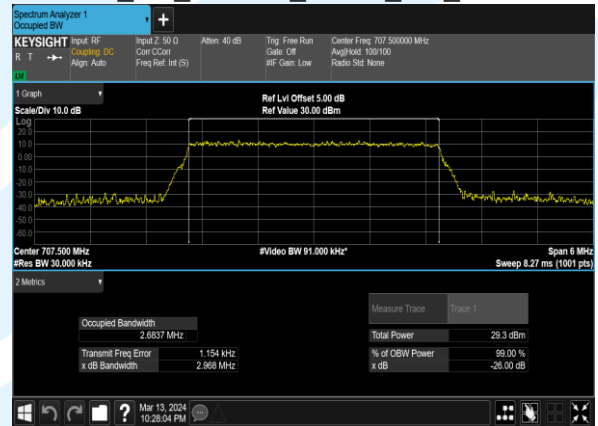
B12\_3M\_16QAM\_15@0\_CH\_23025



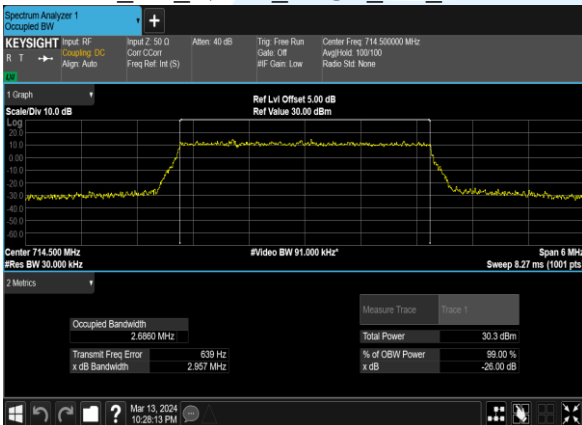
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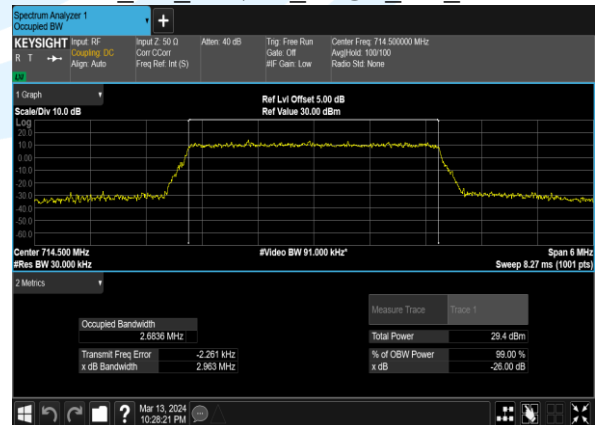
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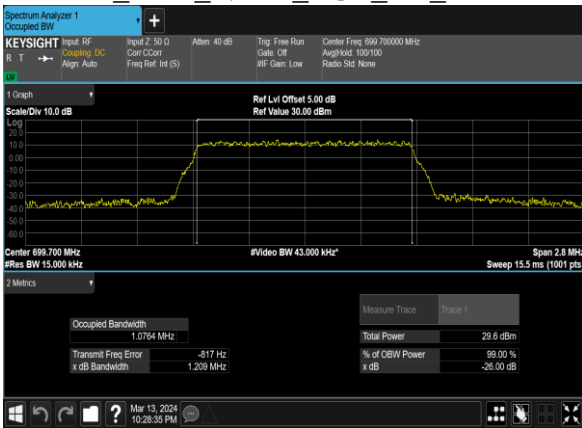
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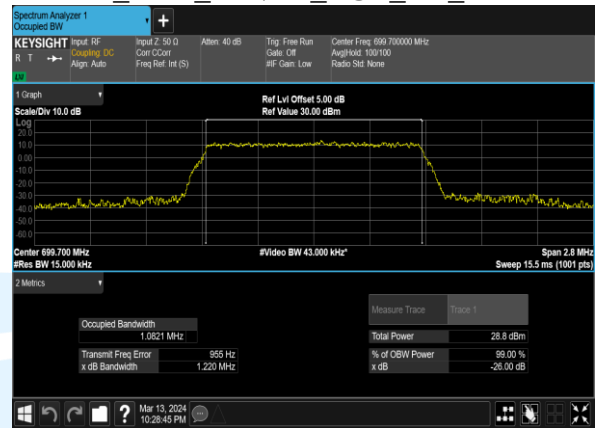
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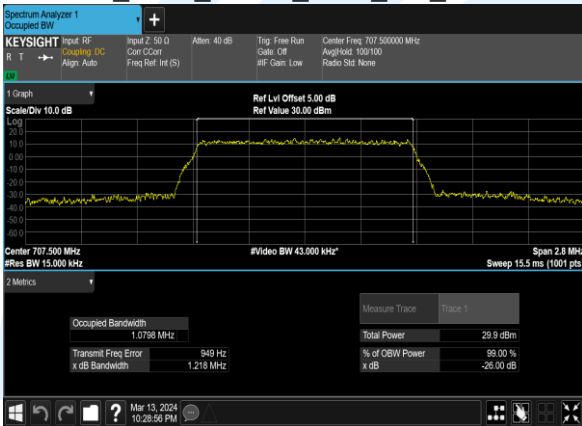
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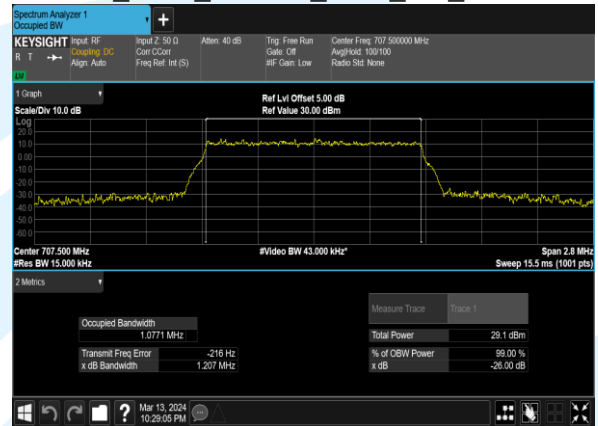
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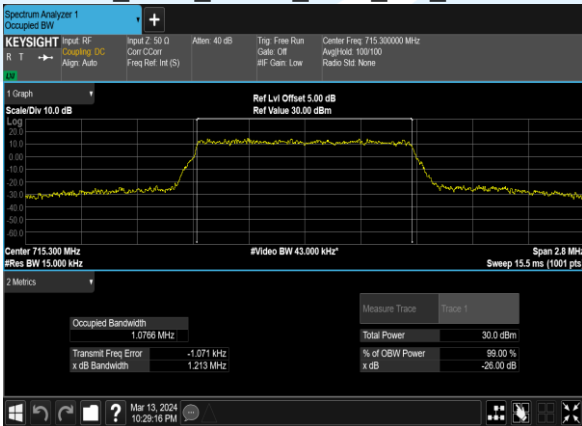
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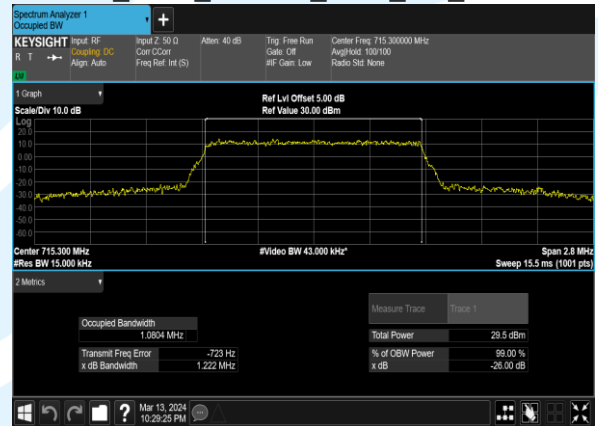
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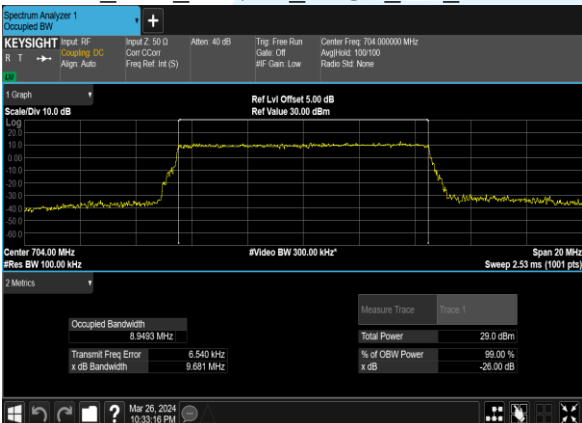
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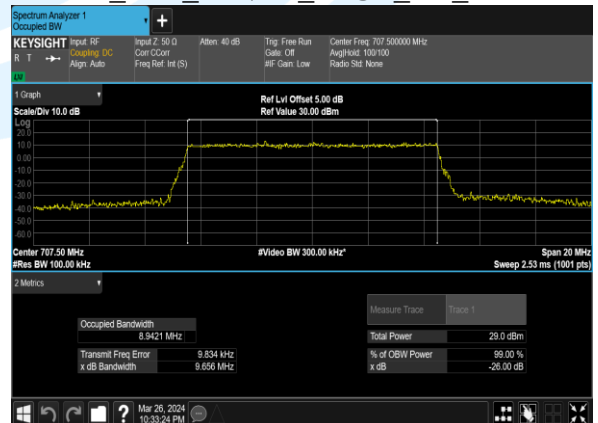
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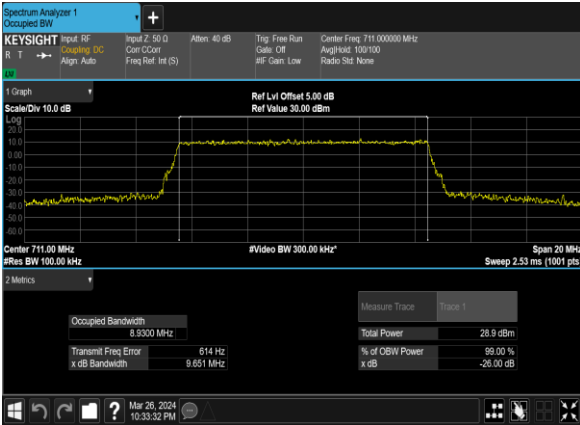
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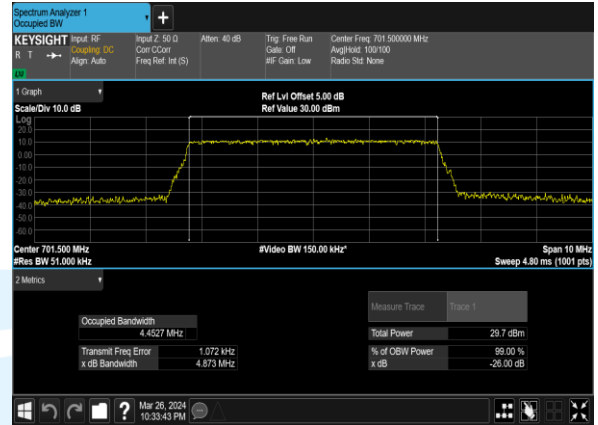
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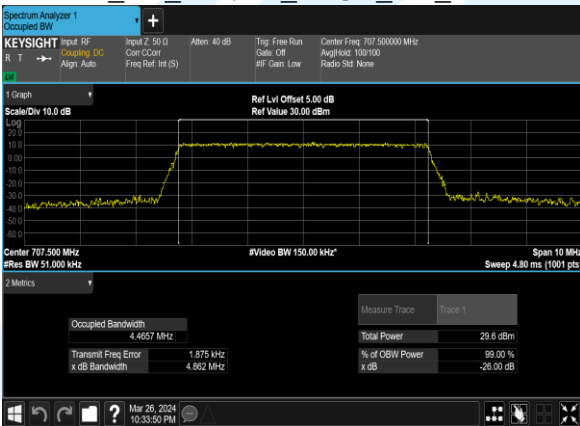
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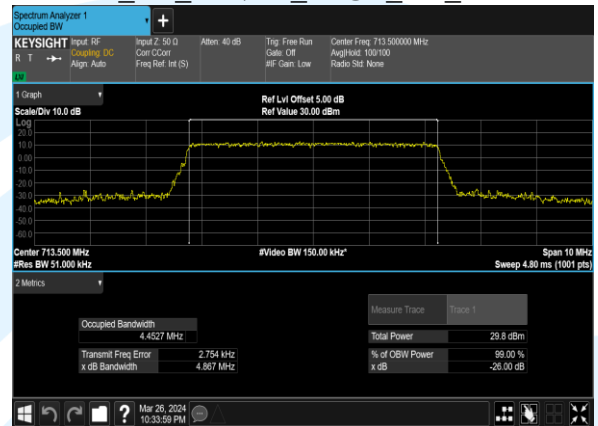
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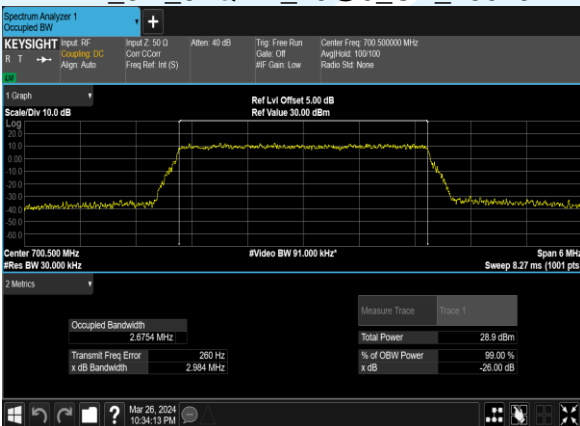
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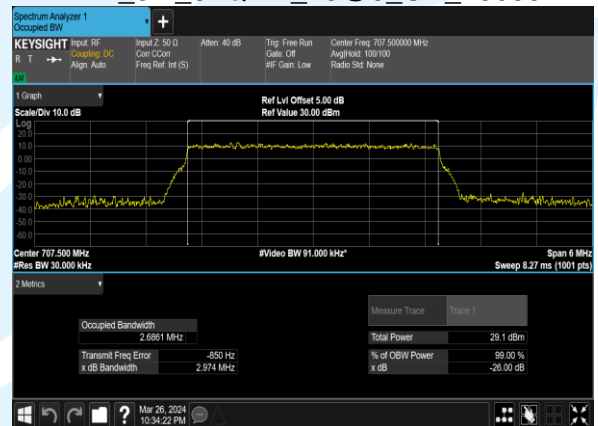
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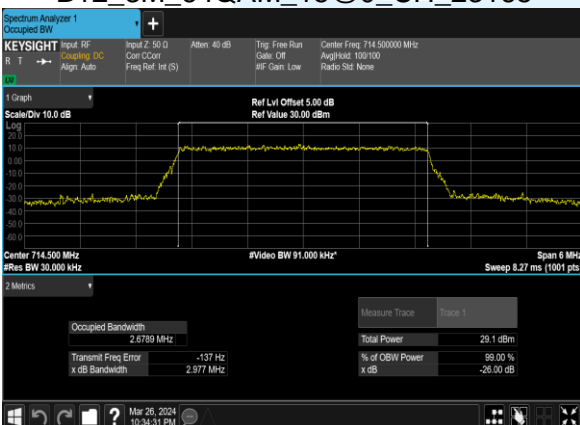
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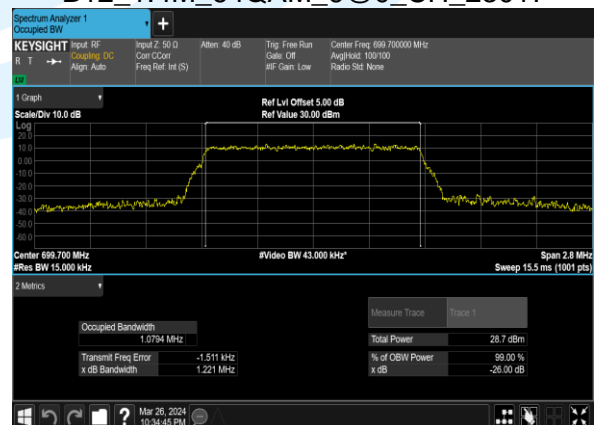
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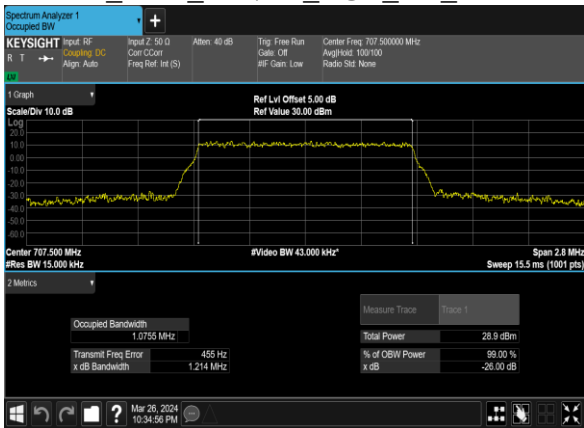
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