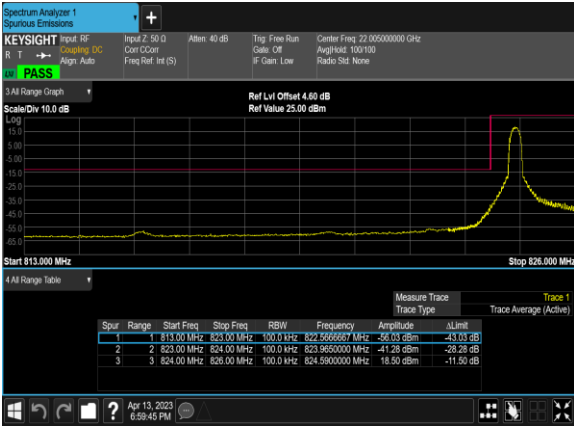
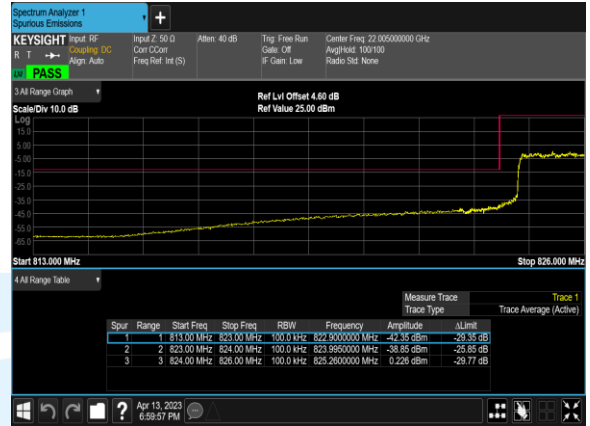


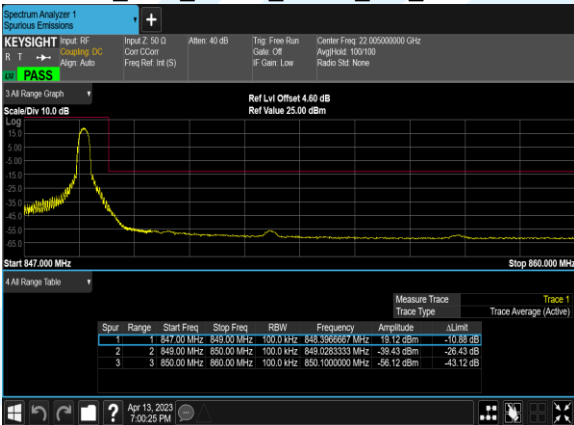
B5\_10M\_16QAM\_1@0\_CH\_20450



B5\_10M\_16QAM\_50@0\_CH\_20450



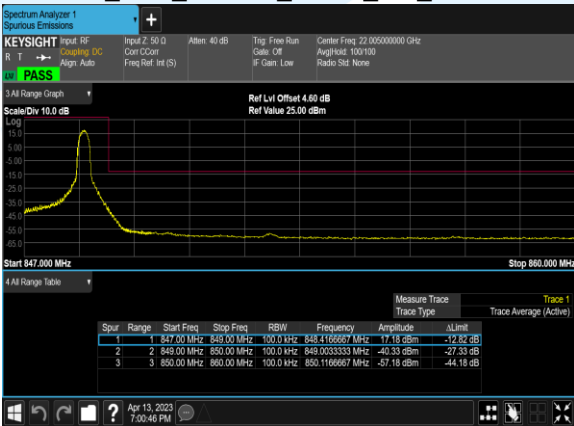
B5\_10M\_QPSK\_1@49\_CH\_20600



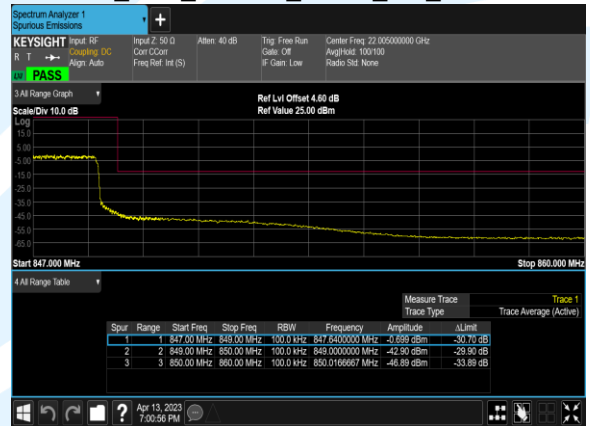
B5\_10M\_QPSK\_50@0\_CH\_20600



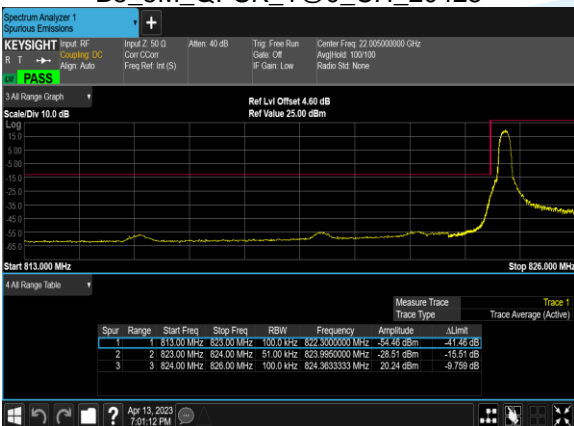
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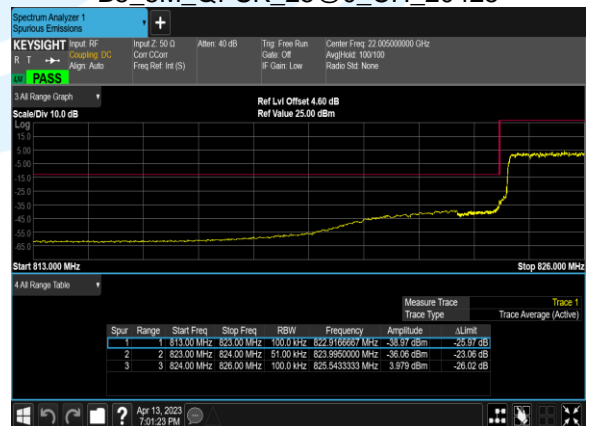
B5\_10M\_16QAM\_50@0\_CH\_20600



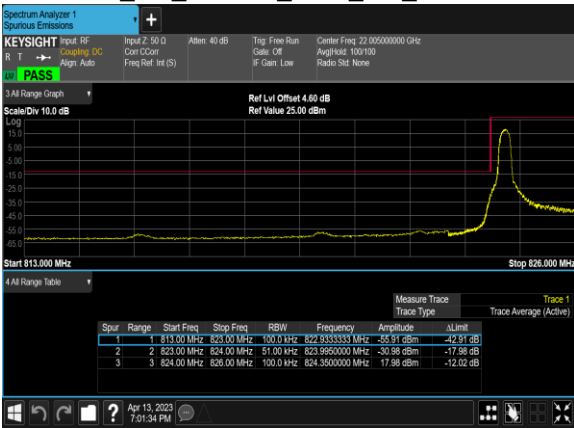
B5\_5M\_QPSK\_1@0\_CH\_20425



B5\_5M\_QPSK\_25@0\_CH\_20425



B5\_5M\_16QAM\_1@0\_CH\_20425



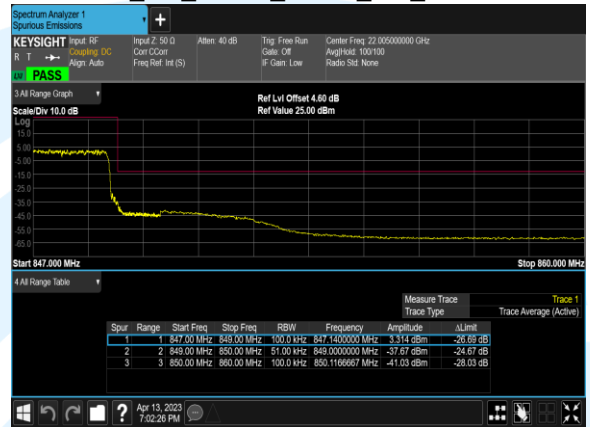
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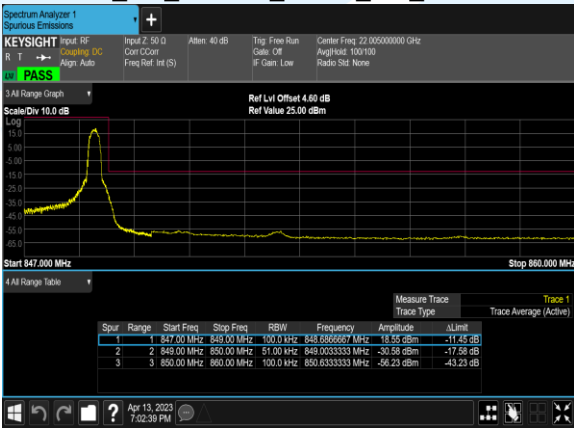
B5\_5M\_QPSK\_1@24\_CH\_20625



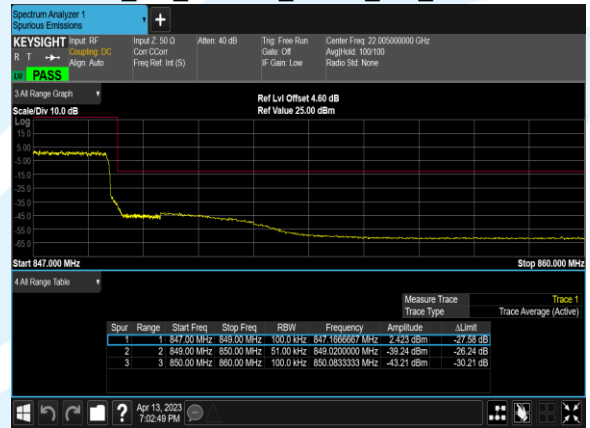
B5\_5M\_QPSK\_25@0\_CH\_20625



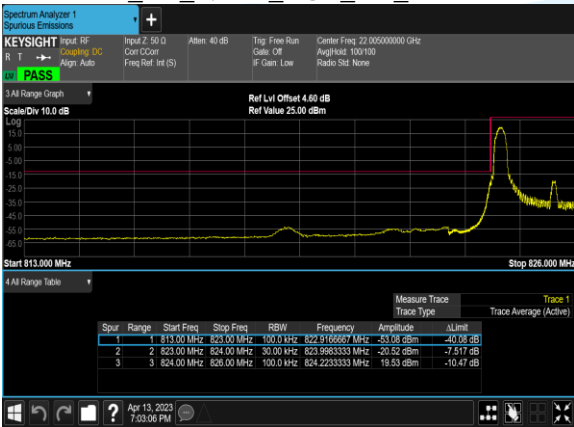
B5\_5M\_16QAM\_1@24\_CH\_20625



B5\_5M\_16QAM\_25@0\_CH\_20625



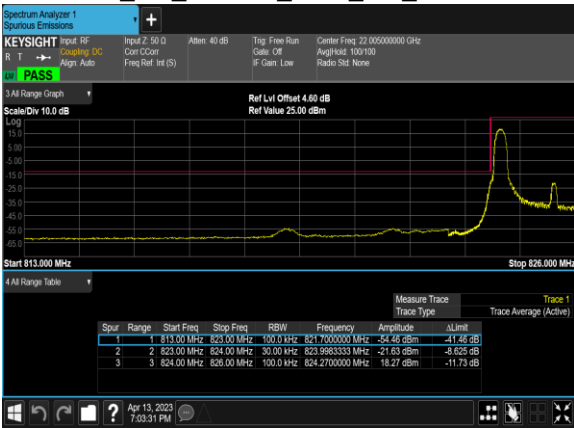
B5\_3M\_QPSK\_1@0\_CH\_20415



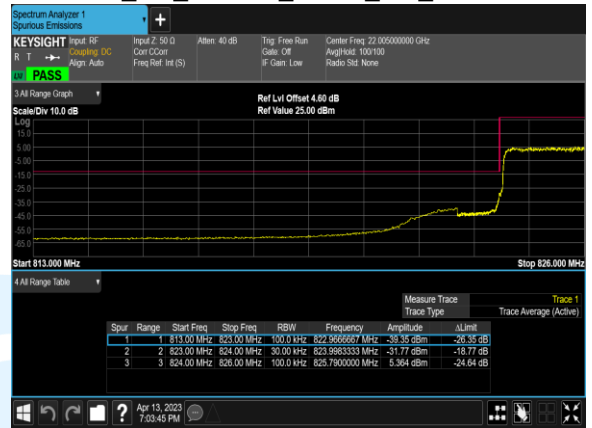
B5\_3M\_QPSK\_15@0\_CH\_20415



B5\_3M\_16QAM\_1@0\_CH\_20415



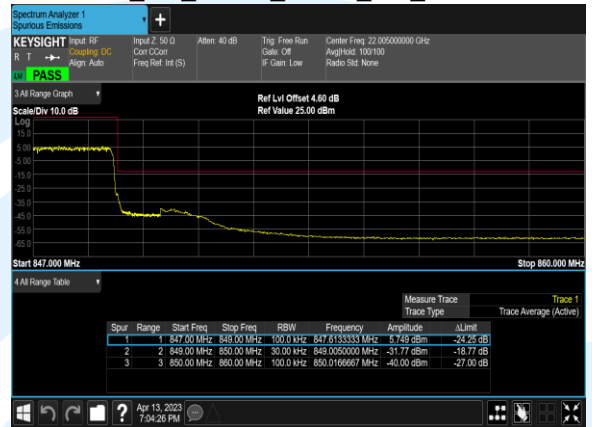
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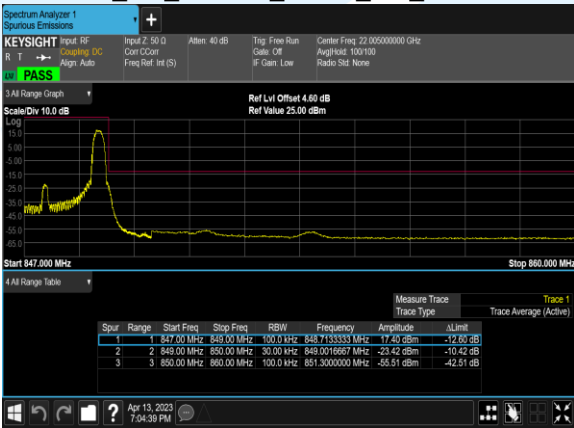
B5\_3M\_QPSK\_1@14\_CH\_20635



B5\_3M\_QPSK\_15@0\_CH\_20635



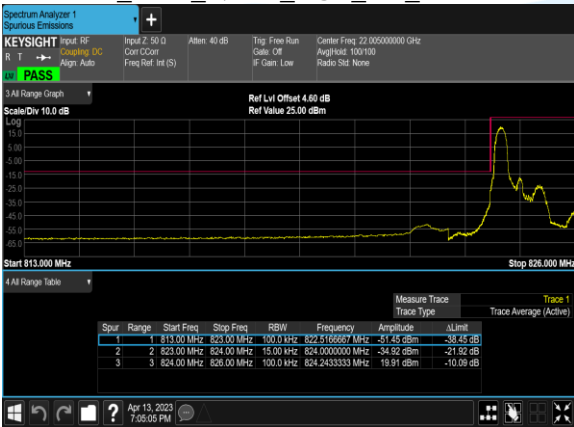
B5\_3M\_16QAM\_1@14\_CH\_20635



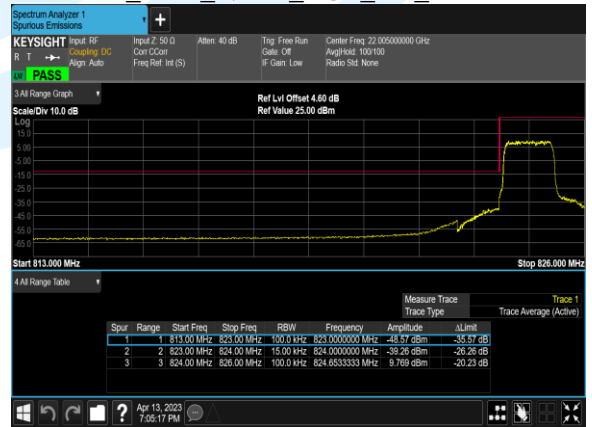
B5\_3M\_16QAM\_15@0\_CH\_20635



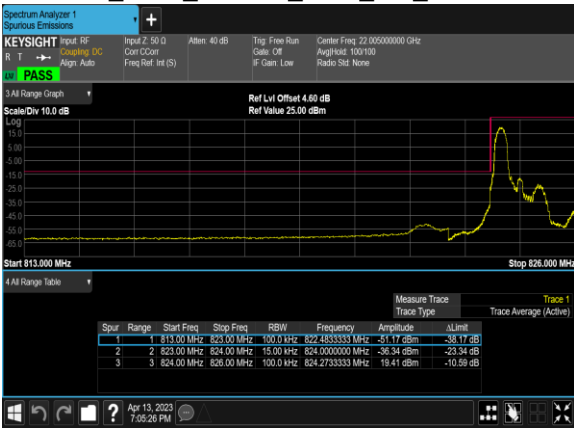
B5\_1.4M\_QPSK\_1@0\_CH\_20407



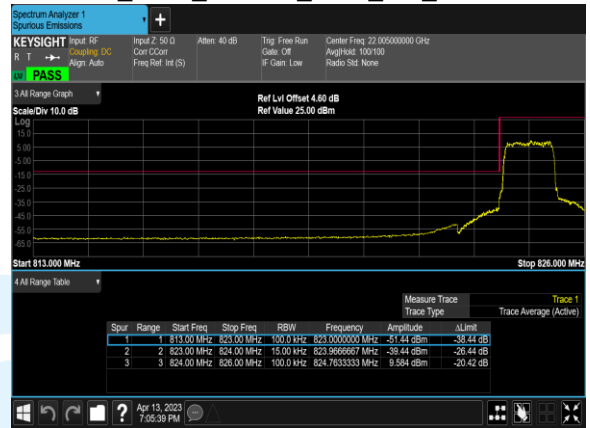
B5\_1.4M\_QPSK\_6@0\_CH\_20407



B5\_1.4M\_16QAM\_1@0\_CH\_20407



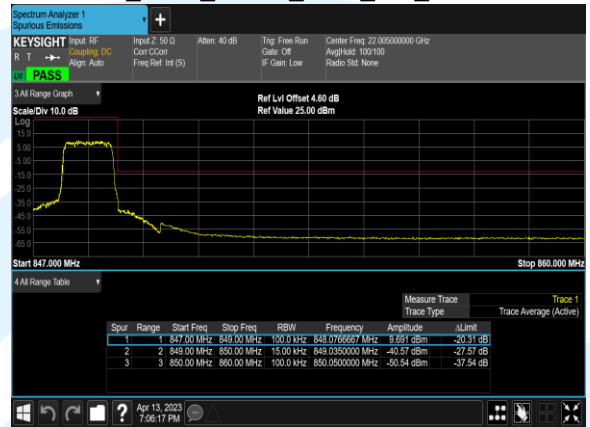
B5\_1.4M\_16QAM\_6@0\_CH\_20407



B5\_1.4M\_QPSK\_1@5\_CH\_20643



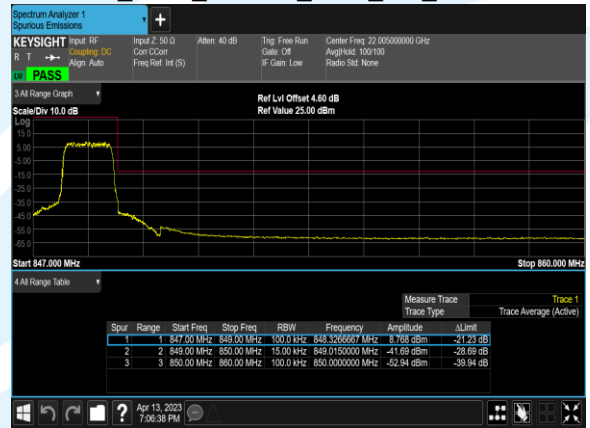
B5\_1.4M\_QPSK\_6@0\_CH\_20643



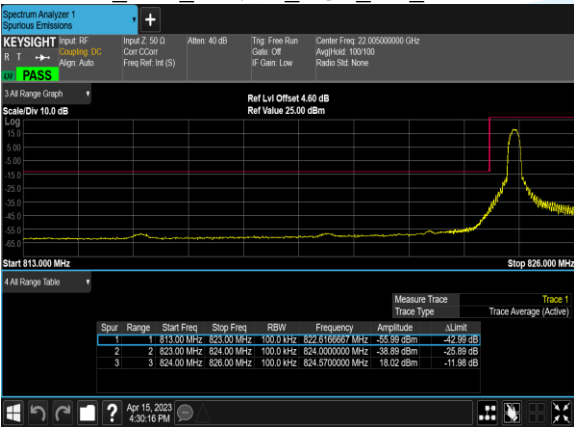
B5\_1.4M\_16QAM\_1@5\_CH\_20643



B5\_1.4M\_16QAM\_6@0\_CH\_20643



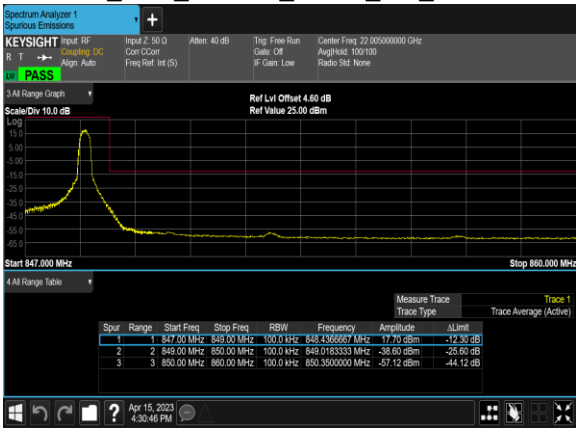
B5\_10M\_64QAM\_1@0\_CH\_20450



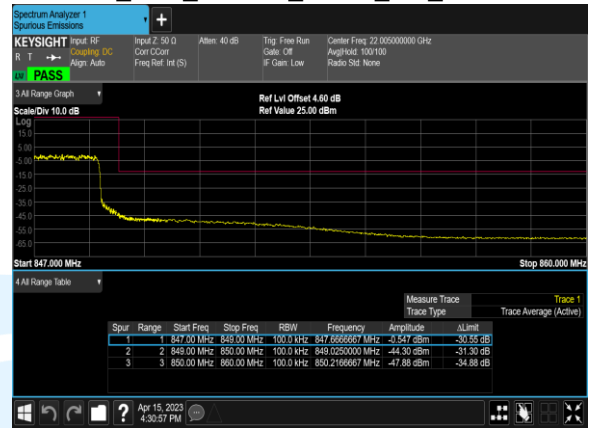
B5\_10M\_64QAM\_50@0\_CH\_20450



B5\_10M\_64QAM\_1@49\_CH\_20600



B5\_10M\_64QAM\_50@0\_CH\_20600



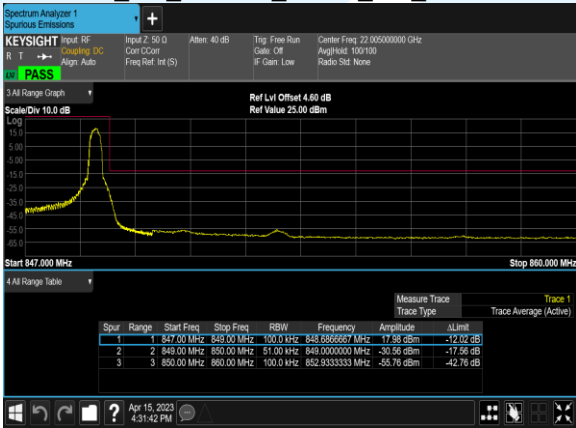
B5\_5M\_64QAM\_1@0\_CH\_20425



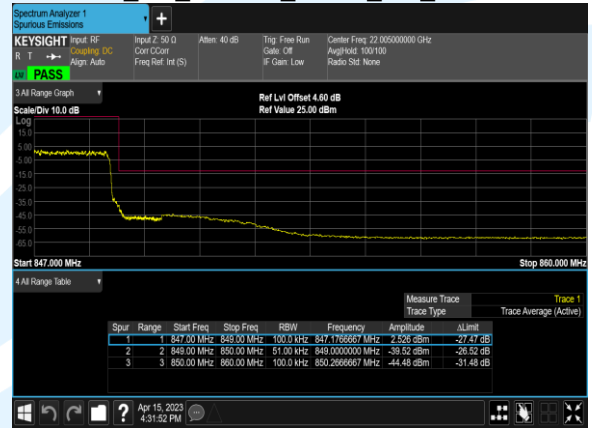
B5\_5M\_64QAM\_25@0\_CH\_20425



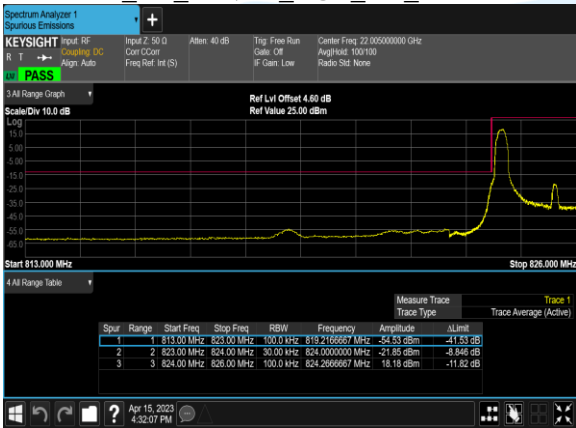
B5\_5M\_64QAM\_1@24\_CH\_20625



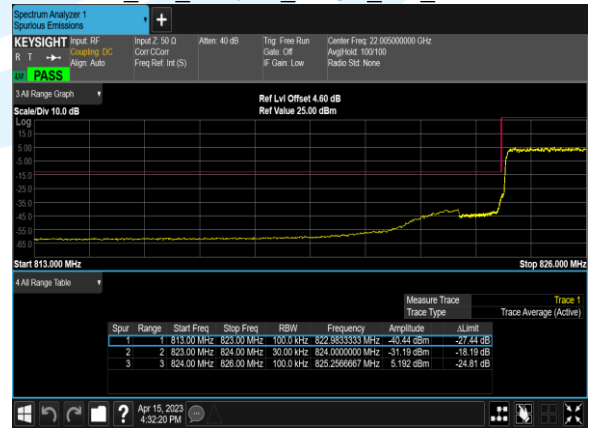
B5\_5M\_64QAM\_25@0\_CH\_20625



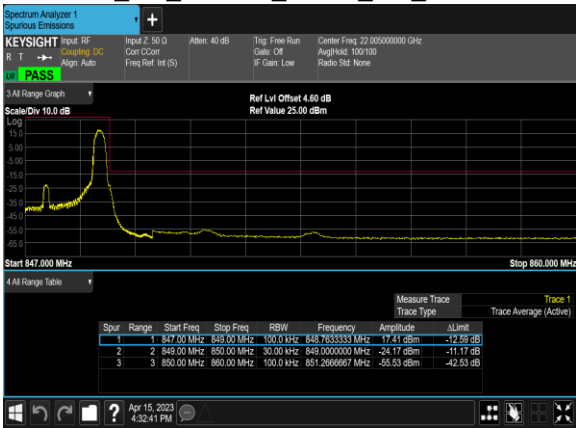
B5\_3M\_64QAM\_1@0\_CH\_20415



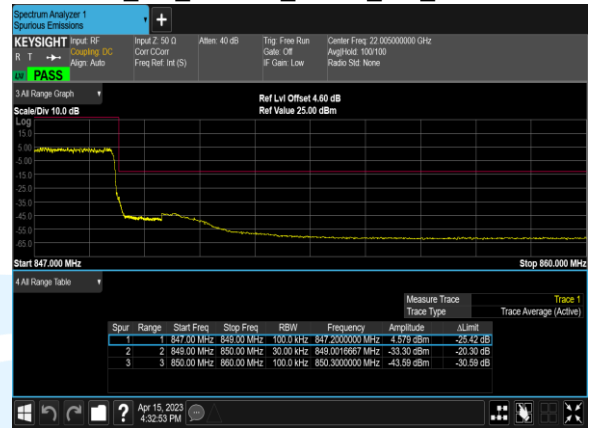
B5\_3M\_64QAM\_15@0\_CH\_20415



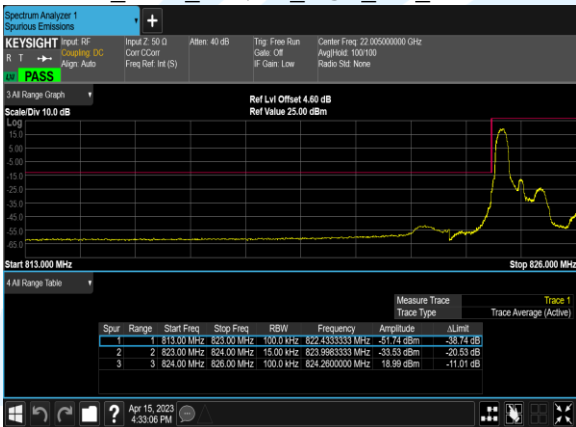
B5\_3M\_64QAM\_1@14\_CH\_20635



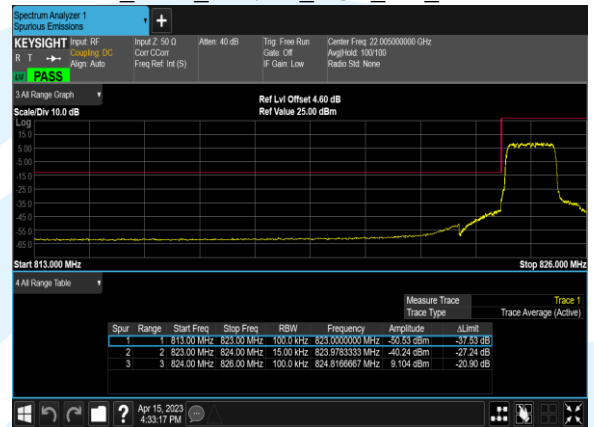
B5\_3M\_64QAM\_15@0\_CH\_20635



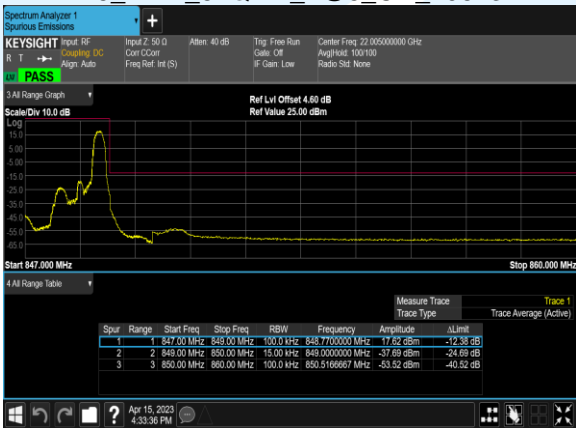
B5\_1.4M\_64QAM\_1@0\_CH\_20407



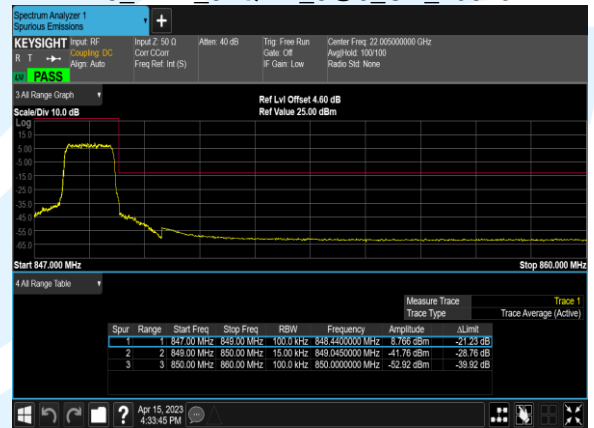
B5\_1.4M\_64QAM\_6@0\_CH\_20407



B5\_1.4M\_64QAM\_1@5\_CH\_20643



B5\_1.4M\_64QAM\_6@0\_CH\_20643



### A.4 LTE BAND 7

#### Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	20.0	20850	2510.0	QPSK	100@0	5.75	13	PASS
7	20.0	20850	2510.0	16QAM	100@0	6.49	13	PASS
7	20.0	21100	2535.0	QPSK	100@0	5.50	13	PASS
7	20.0	21100	2535.0	16QAM	100@0	6.24	13	PASS
7	20.0	21350	2560.0	QPSK	100@0	5.70	13	PASS
7	20.0	21350	2560.0	16QAM	100@0	6.36	13	PASS
7	15.0	20825	2507.5	QPSK	75@0	5.52	13	PASS
7	15.0	20825	2507.5	16QAM	75@0	6.31	13	PASS
7	15.0	21100	2535.0	QPSK	75@0	5.30	13	PASS
7	15.0	21100	2535.0	16QAM	75@0	6.18	13	PASS
7	15.0	21375	2562.5	QPSK	75@0	5.40	13	PASS
7	15.0	21375	2562.5	16QAM	75@0	6.20	13	PASS
7	10.0	20800	2505.0	QPSK	50@0	5.70	13	PASS
7	10.0	20800	2505.0	16QAM	50@0	6.44	13	PASS
7	10.0	21100	2535.0	QPSK	50@0	5.41	13	PASS
7	10.0	21100	2535.0	16QAM	50@0	6.30	13	PASS
7	10.0	21400	2565.0	QPSK	50@0	5.58	13	PASS
7	10.0	21400	2565.0	16QAM	50@0	6.36	13	PASS
7	5.0	20775	2502.5	QPSK	25@0	5.61	13	PASS
7	5.0	20775	2502.5	16QAM	25@0	6.40	13	PASS
7	5.0	21100	2535.0	QPSK	25@0	5.33	13	PASS
7	5.0	21100	2535.0	16QAM	25@0	6.22	13	PASS
7	5.0	21425	2567.5	QPSK	25@0	5.53	13	PASS
7	5.0	21425	2567.5	16QAM	25@0	6.29	13	PASS
7	20.0	20850	2510.0	64QAM	100@0	6.49	13	PASS
7	20.0	21100	2535.0	64QAM	100@0	6.22	13	PASS
7	20.0	21350	2560.0	64QAM	100@0	6.36	13	PASS
7	15.0	20825	2507.5	64QAM	75@0	6.31	13	PASS
7	15.0	21100	2535.0	64QAM	75@0	6.10	13	PASS
7	15.0	21375	2562.5	64QAM	75@0	6.20	13	PASS
7	10.0	20800	2505.0	64QAM	50@0	6.46	13	PASS
7	10.0	21100	2535.0	64QAM	50@0	6.20	13	PASS
7	10.0	21400	2565.0	64QAM	50@0	6.35	13	PASS
7	5.0	20775	2502.5	64QAM	25@0	6.34	13	PASS
7	5.0	21100	2535.0	64QAM	25@0	6.14	13	PASS
7	5.0	21425	2567.5	64QAM	25@0	6.26	13	PASS

#### Test Graphs

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



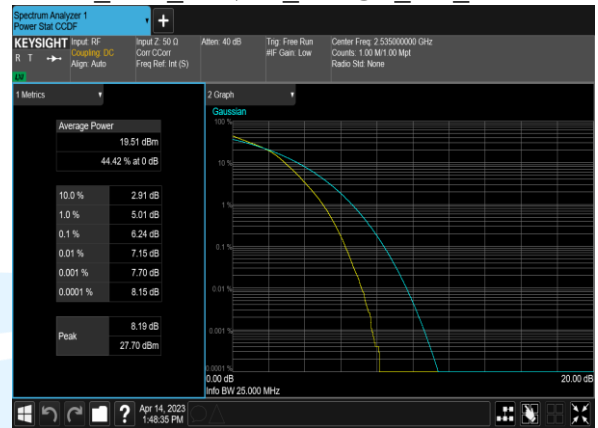
B7\_20M\_16QAM\_100@0\_CH\_20850



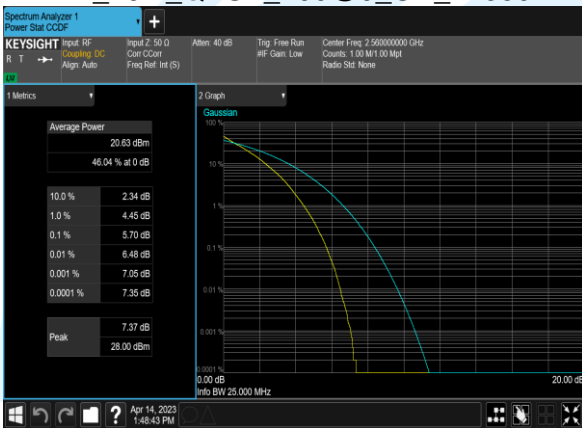
B7\_20M\_QPSK\_100@0\_CH\_21100



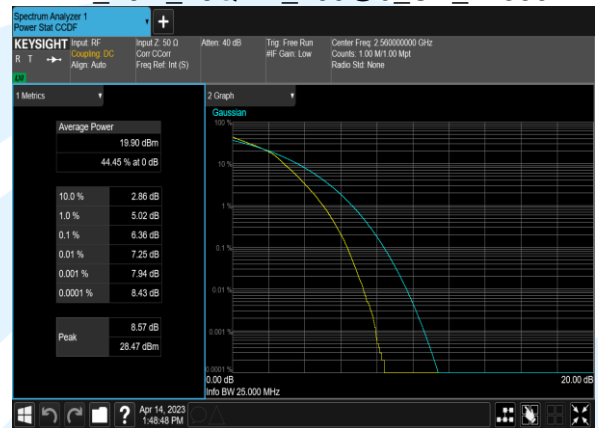
B7\_20M\_16QAM\_100@0\_CH\_21100



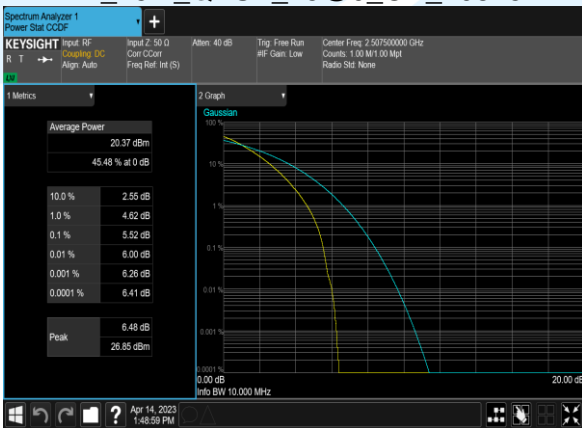
B7\_20M\_QPSK\_100@0\_CH\_21350



B7\_20M\_16QAM\_100@0\_CH\_21350



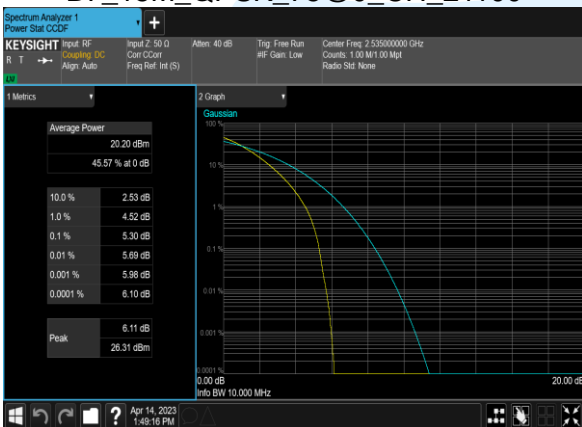
B7\_15M\_QPSK\_75@0\_CH\_20825



B7\_15M\_16QAM\_75@0\_CH\_20825



B7\_15M\_QPSK\_75@0\_CH\_21100

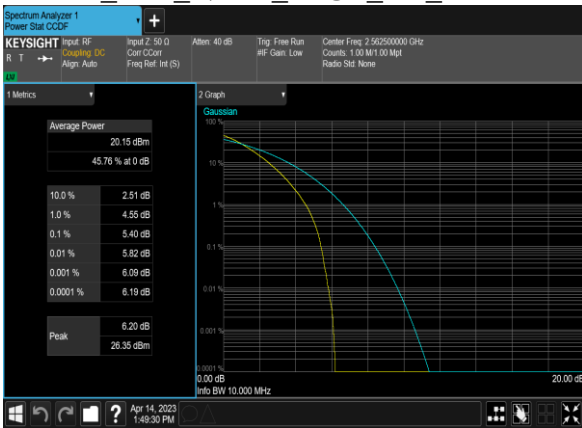


B7\_15M\_16QAM\_75@0\_CH\_21100





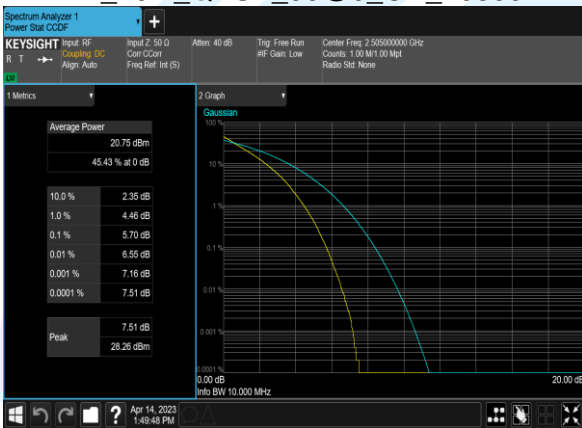
B7\_15M\_QPSK\_75@0\_CH\_21375



B7\_15M\_16QAM\_75@0\_CH\_21375



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



B7\_10M\_16QAM\_50@0\_CH\_20800



B7\_10M\_QPSK\_50@0\_CH\_21100



B7\_10M\_16QAM\_50@0\_CH\_21100



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



B7\_10M\_16QAM\_50@0\_CH\_21400



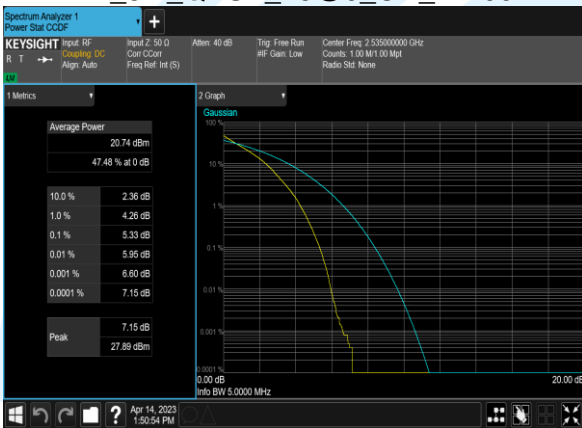
B7\_5M\_QPSK\_25@0\_CH\_20775



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



B7\_5M\_QPSK\_25@0\_CH\_21100



B7\_5M\_16QAM\_25@0\_CH\_21100



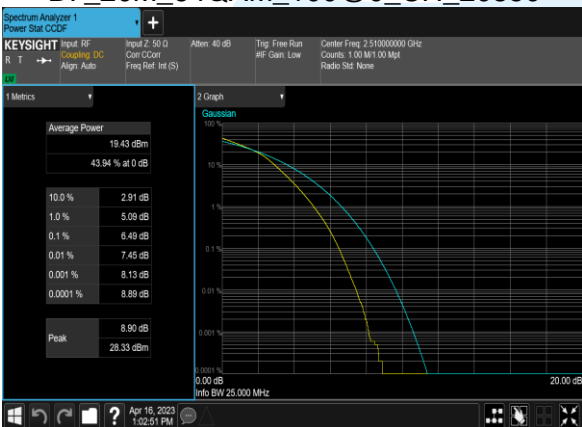
B7\_5M\_QPSK\_25@0\_CH\_21425



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



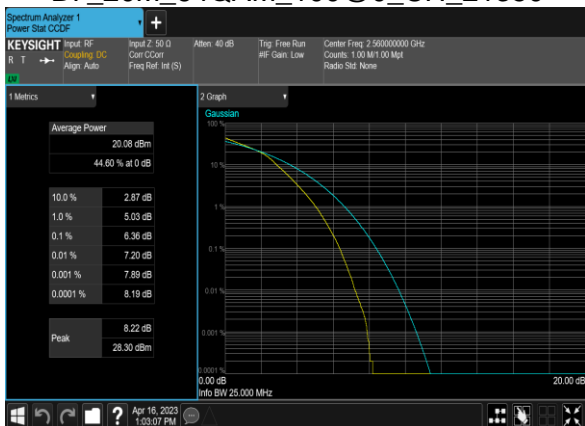
B7\_20M\_64QAM\_100@0\_CH\_20850



B7\_20M\_64QAM\_100@0\_CH\_21100



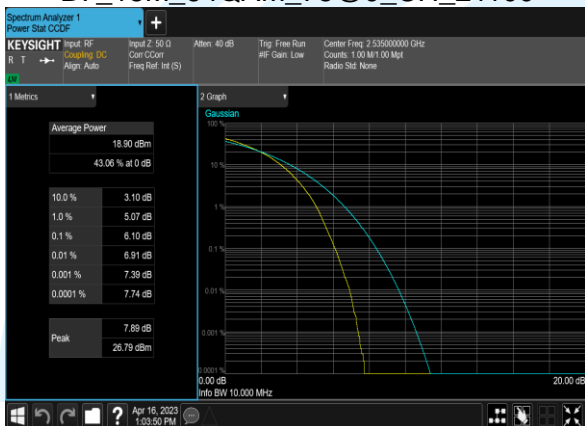
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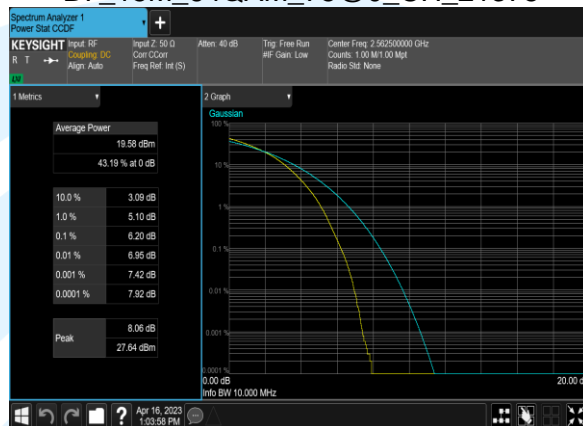
B7\_15M\_64QAM\_75@0\_CH\_20825



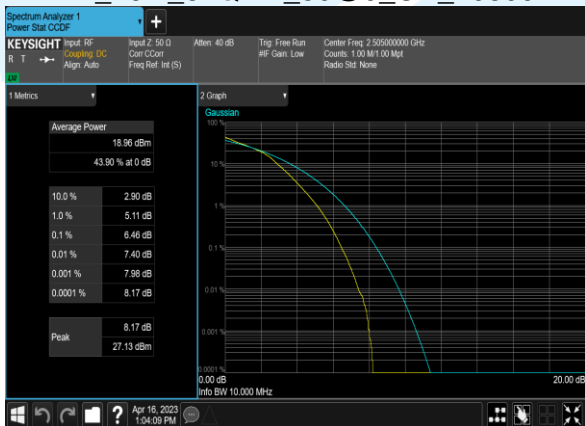
B7\_15M\_64QAM\_75@0\_CH\_21100



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



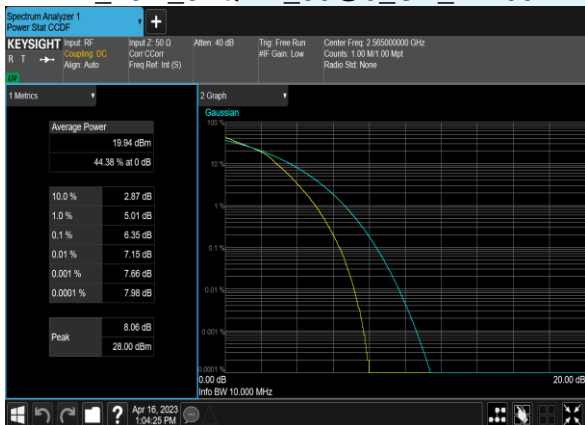
B7\_10M\_64QAM\_50@0\_CH\_20800



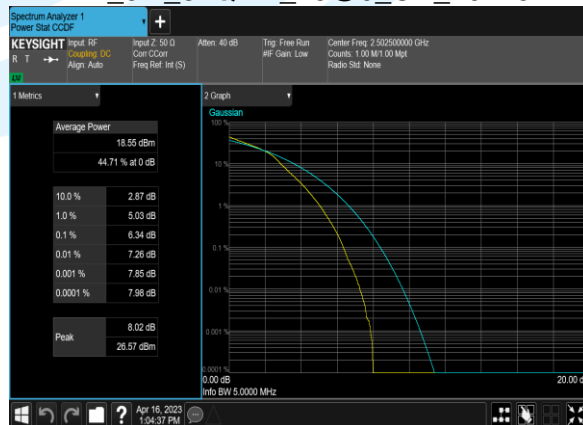
B7\_10M\_64QAM\_50@0\_CH\_21100



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



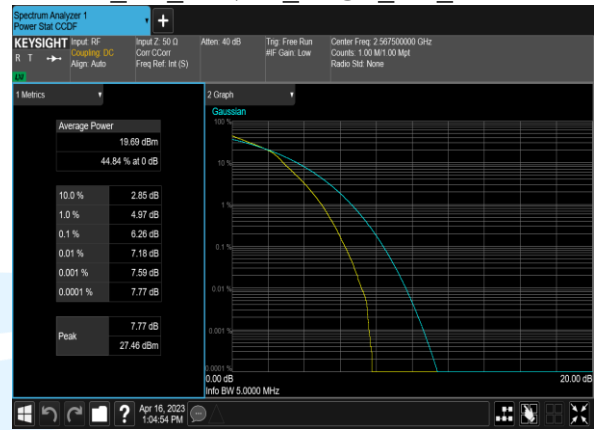
B7\_5M\_64QAM\_25@0\_CH\_20775



B7\_5M\_64QAM\_25@0\_CH\_21100



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



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Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

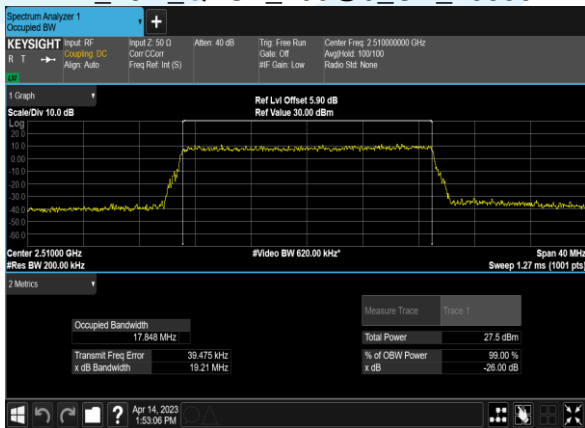
UTTR-RF-FCC4G-V1.1

## Occupied Bandwidth

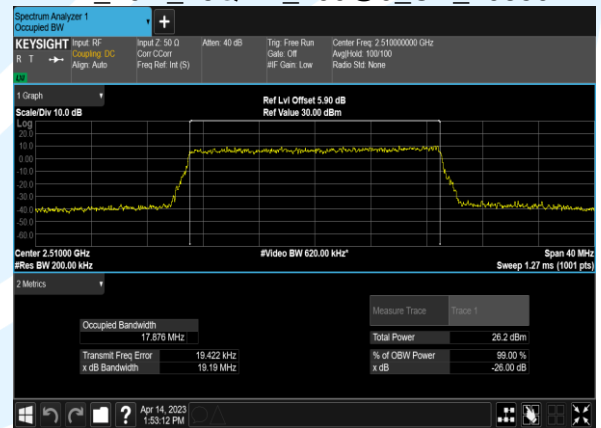
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	QPSK	100@0	17.848	19.21
7	20.0	20850	2510.0	16QAM	100@0	17.876	19.19
7	20.0	21100	2535.0	QPSK	100@0	17.856	19.10
7	20.0	21100	2535.0	16QAM	100@0	17.930	19.23
7	20.0	21350	2560.0	QPSK	100@0	17.876	19.28
7	20.0	21350	2560.0	16QAM	100@0	17.863	19.05
7	15.0	20825	2507.5	QPSK	75@0	13.439	14.49
7	15.0	20825	2507.5	16QAM	75@0	13.446	14.32
7	15.0	21100	2535.0	QPSK	75@0	13.385	14.40
7	15.0	21100	2535.0	16QAM	75@0	13.389	14.43
7	15.0	21375	2562.5	QPSK	75@0	13.380	14.46
7	15.0	21375	2562.5	16QAM	75@0	13.426	14.44
7	10.0	20800	2505.0	QPSK	50@0	8.9393	9.584
7	10.0	20800	2505.0	16QAM	50@0	8.9436	9.672
7	10.0	21100	2535.0	QPSK	50@0	8.9342	9.677
7	10.0	21100	2535.0	16QAM	50@0	8.9482	9.748
7	10.0	21400	2565.0	QPSK	50@0	8.9437	9.669
7	10.0	21400	2565.0	16QAM	50@0	8.9390	9.710
7	5.0	20775	2502.5	QPSK	25@0	4.4465	4.862
7	5.0	20775	2502.5	16QAM	25@0	4.4675	4.872
7	5.0	21100	2535.0	QPSK	25@0	4.4614	4.848
7	5.0	21100	2535.0	16QAM	25@0	4.4575	4.865
7	5.0	21425	2567.5	QPSK	25@0	4.4609	4.841
7	5.0	21425	2567.5	16QAM	25@0	4.4596	4.836
7	20.0	20850	2510.0	64QAM	100@0	17.902	19.01
7	20.0	21100	2535.0	64QAM	100@0	17.889	19.14
7	20.0	21350	2560.0	64QAM	100@0	17.824	19.14
7	15.0	20825	2507.5	64QAM	75@0	13.411	14.32
7	15.0	21100	2535.0	64QAM	75@0	13.431	14.50
7	15.0	21375	2562.5	64QAM	75@0	13.426	14.56
7	10.0	20800	2505.0	64QAM	50@0	8.9298	9.635
7	10.0	21100	2535.0	64QAM	50@0	8.9389	9.663
7	10.0	21400	2565.0	64QAM	50@0	8.9342	9.702
7	5.0	20775	2502.5	64QAM	25@0	4.4604	4.877
7	5.0	21100	2535.0	64QAM	25@0	4.4705	4.911
7	5.0	21425	2567.5	64QAM	25@0	4.4582	4.864

## Test Graphs

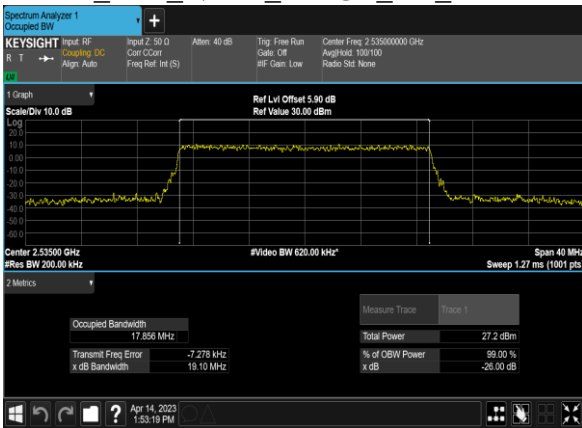
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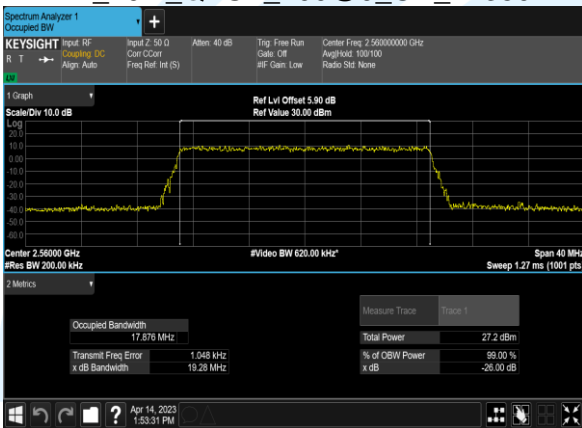
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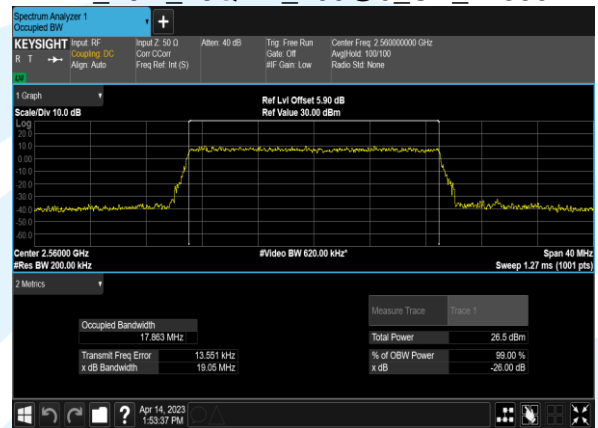
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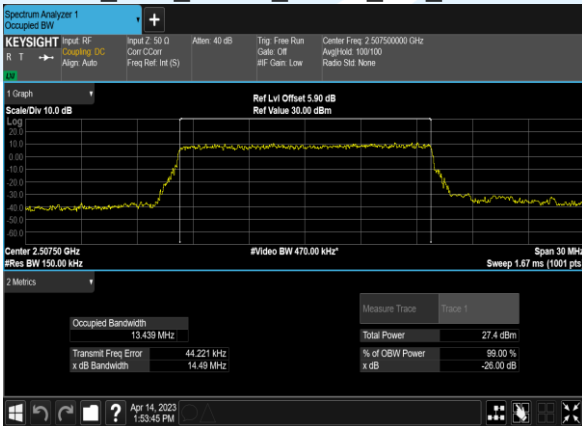
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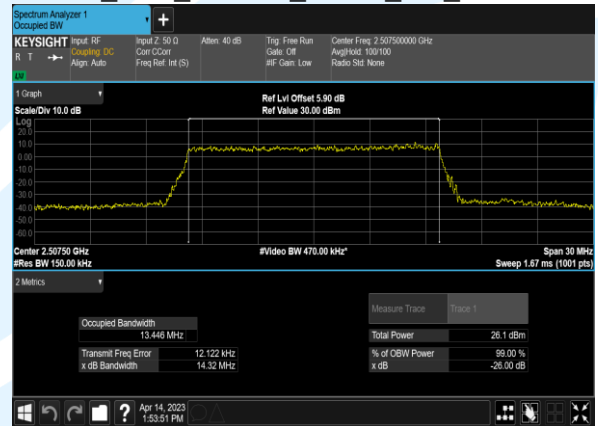
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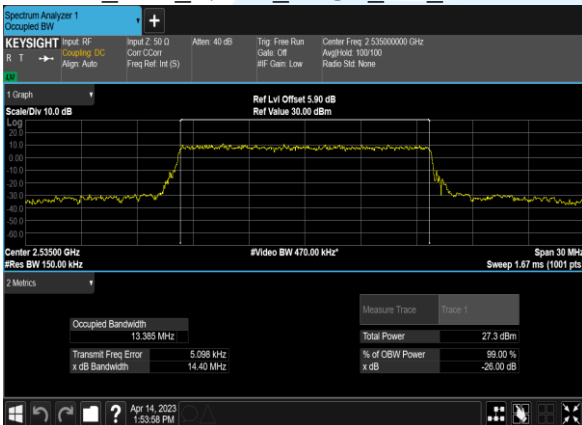
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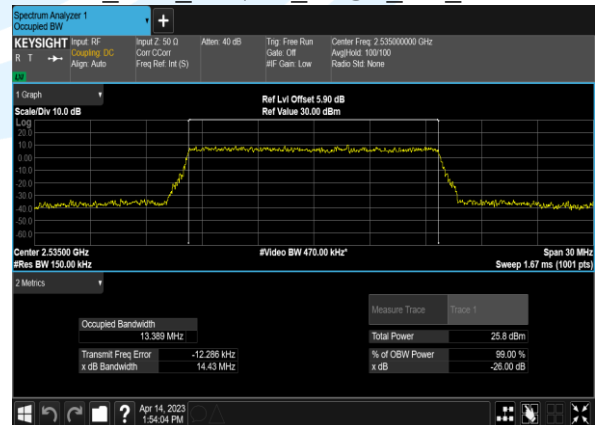
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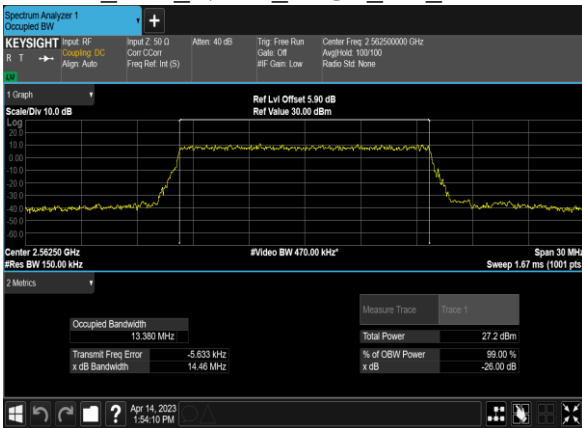
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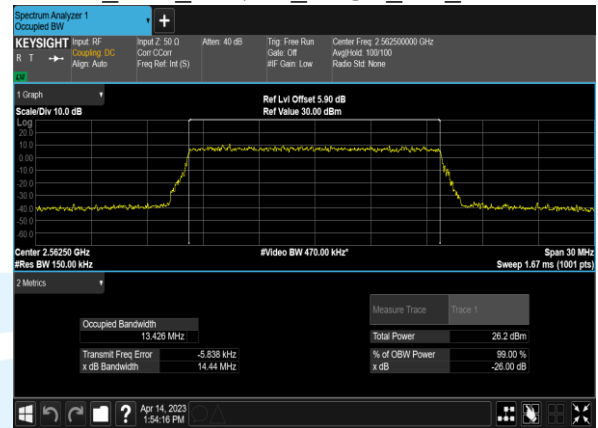
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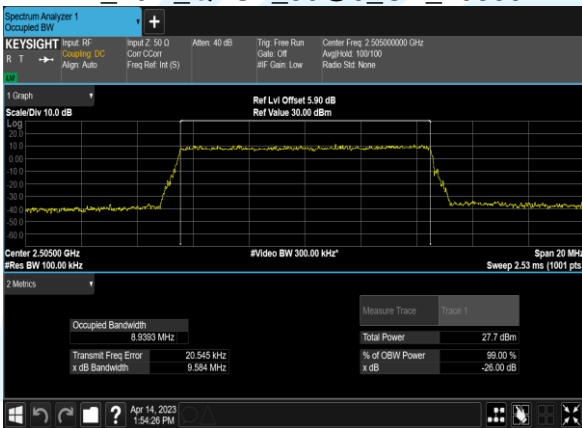
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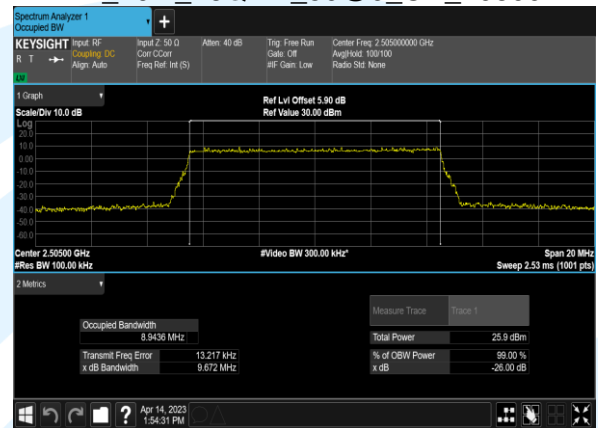
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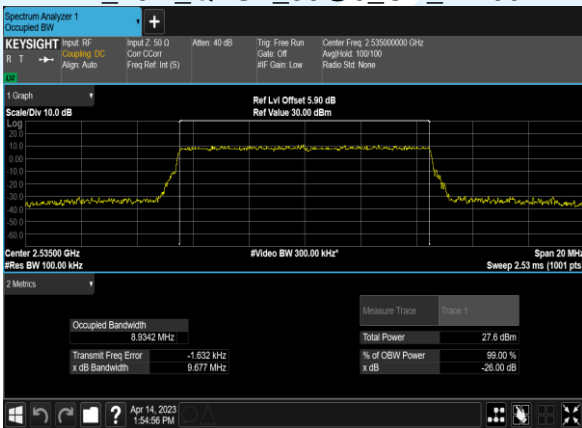
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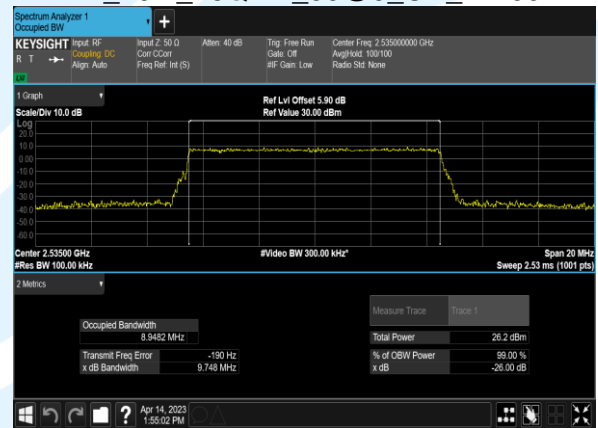
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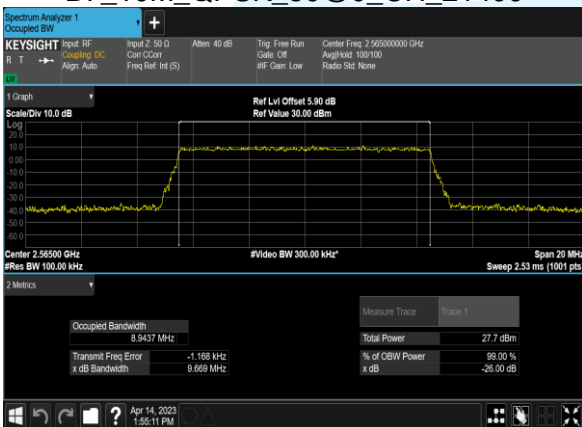
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