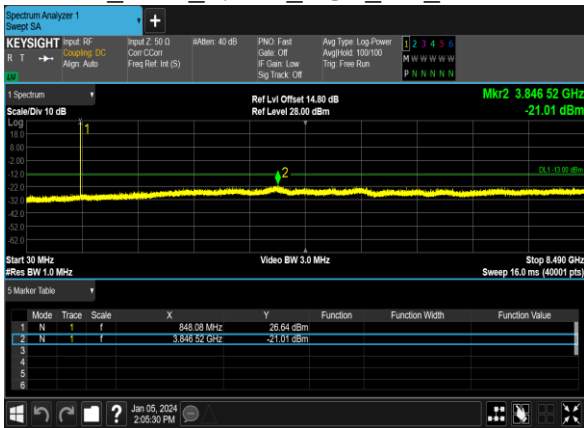
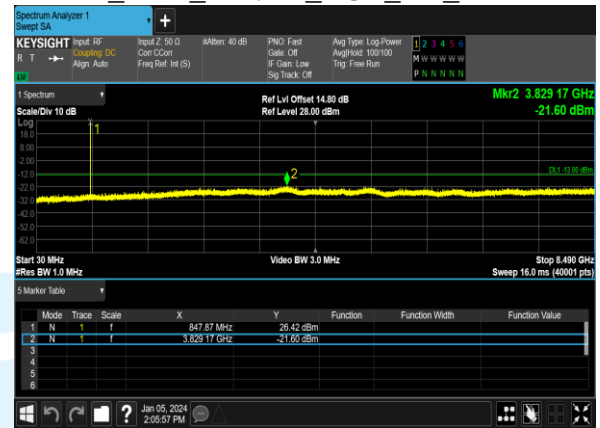


B5_1.4M_QPSK_1@0_CH_20643



B5_1.4M_16QAM_1@0_CH_20643



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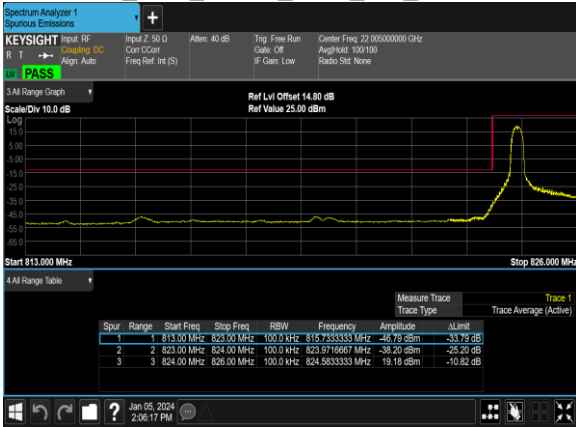
UTTR-RF-FCC4G-V1.1

Conducted Band Edge

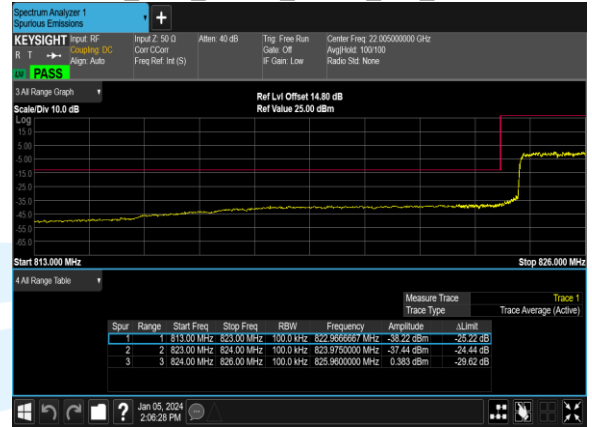
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
5	10.0	20450	829.0	QPSK	1@0	see graph	PASS
5	10.0	20450	829.0	QPSK	50@0	see graph	PASS
5	10.0	20450	829.0	16QAM	1@0	see graph	PASS
5	10.0	20450	829.0	16QAM	50@0	see graph	PASS
5	10.0	20600	844.0	QPSK	1@49	see graph	PASS
5	10.0	20600	844.0	QPSK	50@0	see graph	PASS
5	10.0	20600	844.0	16QAM	1@49	see graph	PASS
5	10.0	20600	844.0	16QAM	50@0	see graph	PASS
5	5.0	20425	826.5	QPSK	1@0	see graph	PASS
5	5.0	20425	826.5	QPSK	25@0	see graph	PASS
5	5.0	20425	826.5	16QAM	1@0	see graph	PASS
5	5.0	20425	826.5	16QAM	25@0	see graph	PASS
5	5.0	20625	846.5	QPSK	1@24	see graph	PASS
5	5.0	20625	846.5	QPSK	25@0	see graph	PASS
5	5.0	20625	846.5	16QAM	1@24	see graph	PASS
5	5.0	20625	846.5	16QAM	25@0	see graph	PASS
5	3.0	20415	825.5	QPSK	1@0	see graph	PASS
5	3.0	20415	825.5	QPSK	15@0	see graph	PASS
5	3.0	20415	825.5	16QAM	1@0	see graph	PASS
5	3.0	20415	825.5	16QAM	15@0	see graph	PASS
5	3.0	20635	847.5	QPSK	1@14	see graph	PASS
5	3.0	20635	847.5	QPSK	15@0	see graph	PASS
5	3.0	20635	847.5	16QAM	1@14	see graph	PASS
5	3.0	20635	847.5	16QAM	15@0	see graph	PASS
5	1.4	20407	824.7	QPSK	1@0	see graph	PASS
5	1.4	20407	824.7	QPSK	6@0	see graph	PASS
5	1.4	20407	824.7	16QAM	1@0	see graph	PASS
5	1.4	20407	824.7	16QAM	6@0	see graph	PASS
5	1.4	20643	848.3	QPSK	1@5	see graph	PASS
5	1.4	20643	848.3	QPSK	6@0	see graph	PASS
5	1.4	20643	848.3	16QAM	1@5	see graph	PASS
5	1.4	20643	848.3	16QAM	6@0	see graph	PASS

Test Graphs

B5_10M_QPSK_1@0_CH_20450



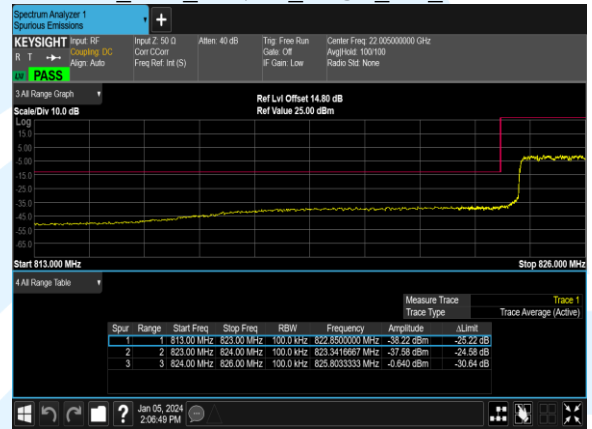
B5_10M_QPSK_50@0_CH_20450



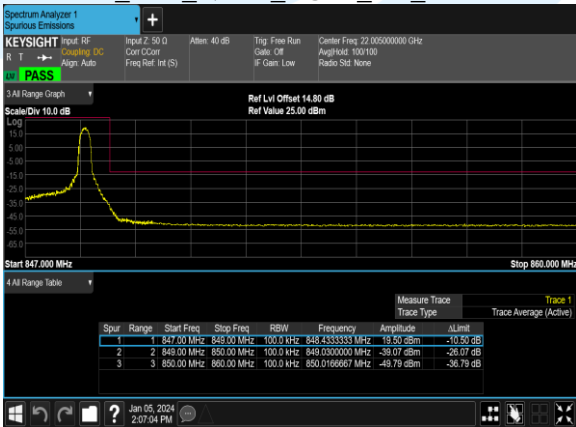
B5_10M_16QAM_1@0_CH_20450



B5_10M_16QAM_50@0_CH_20450



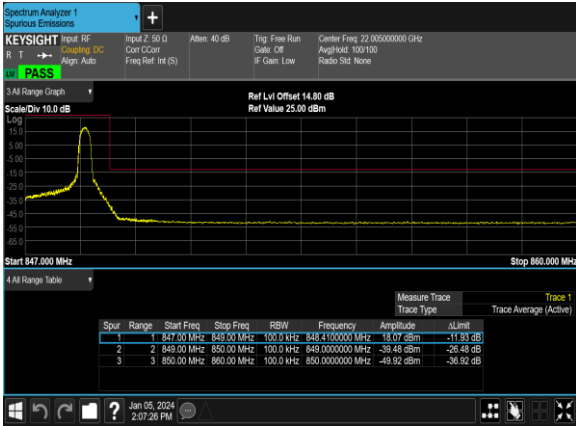
B5_10M_QPSK_1@49_CH_20600



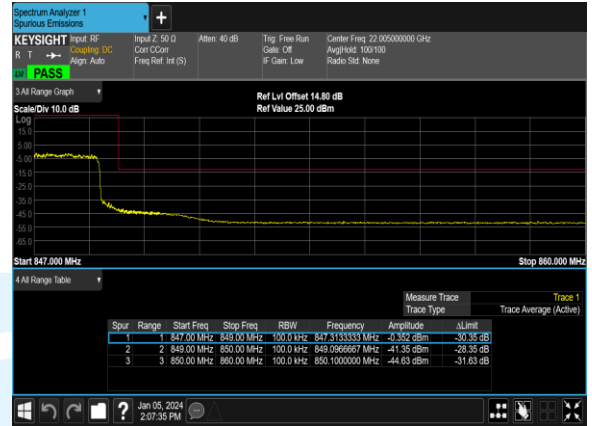
B5_10M_QPSK_50@0_CH_20600



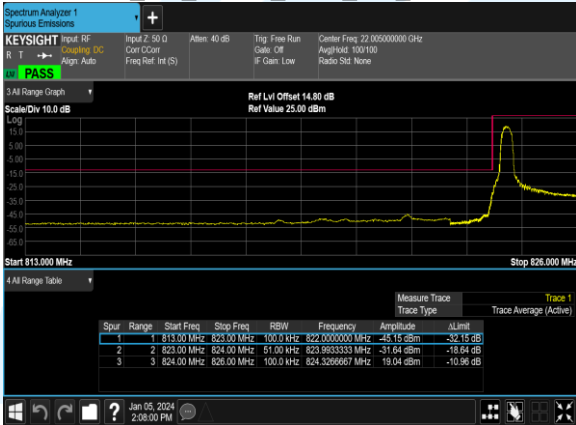
B5_10M_16QAM_1@49_CH_20600



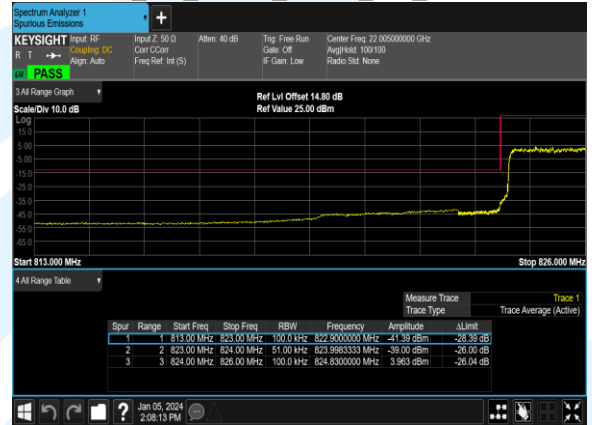
B5_10M_16QAM_50@0_CH_20600



B5_5M_QPSK_1@0_CH_20425



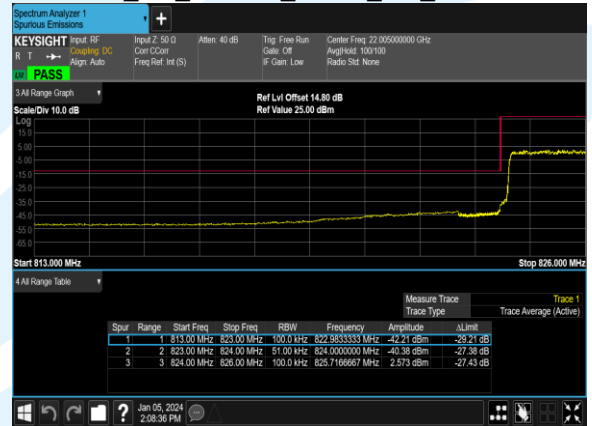
B5_5M_QPSK_25@0_CH_20425



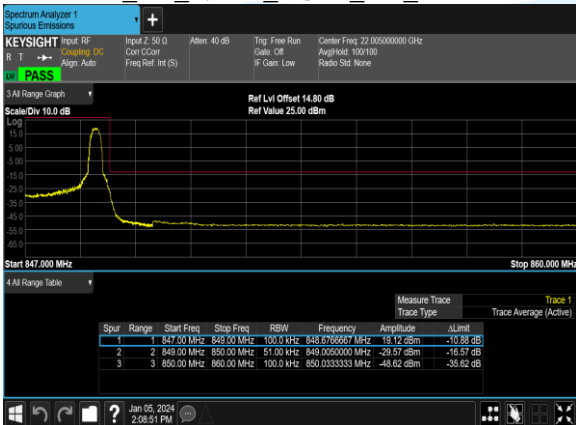
B5_5M_16QAM_1@0_CH_20425



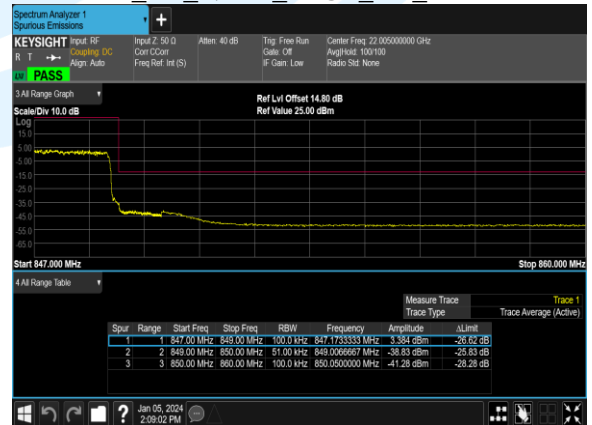
B5_5M_16QAM_25@0_CH_20425



B5_5M_QPSK_1@24_CH_20625



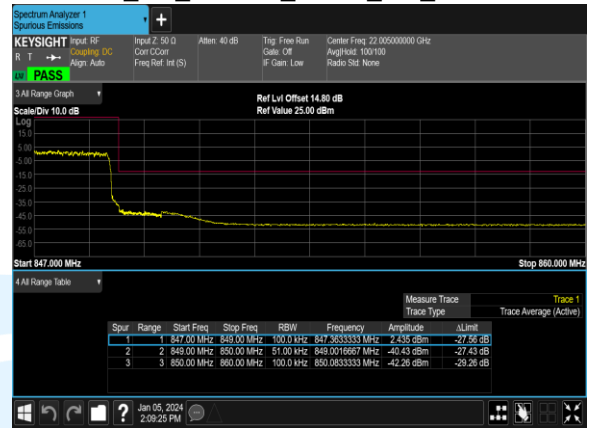
B5_5M_QPSK_25@0_CH_20625



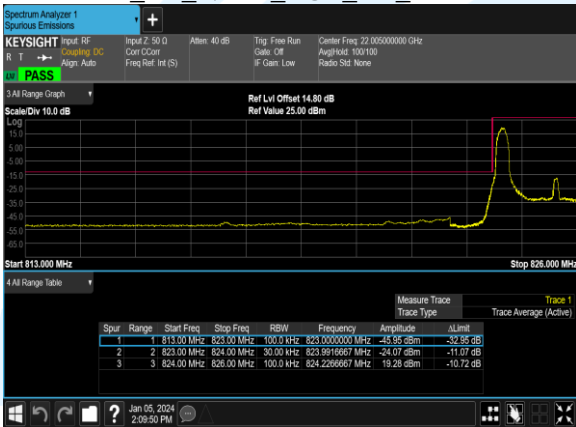
B5_5M_16QAM_1@24_CH_20625



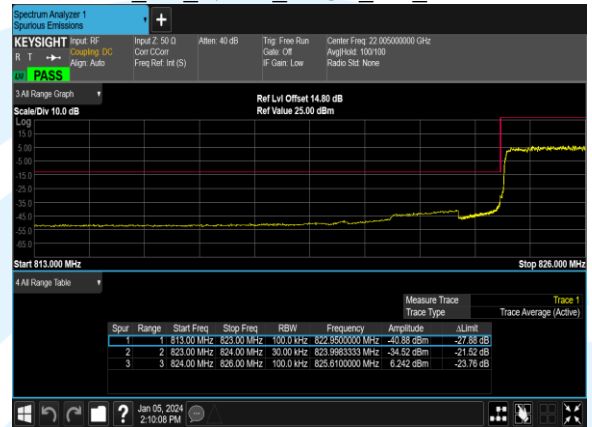
B5_5M_16QAM_25@0_CH_20625



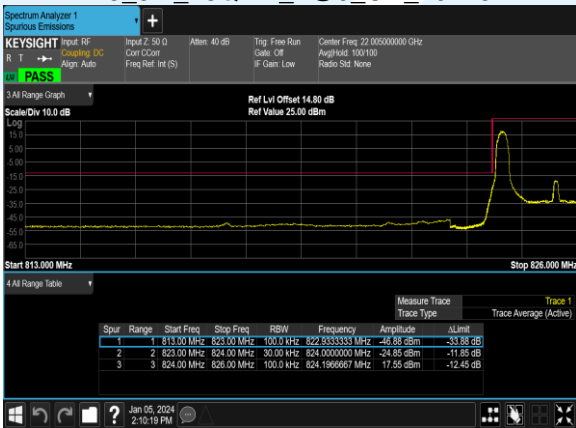
B5_3M_QPSK_1@0_CH_20415



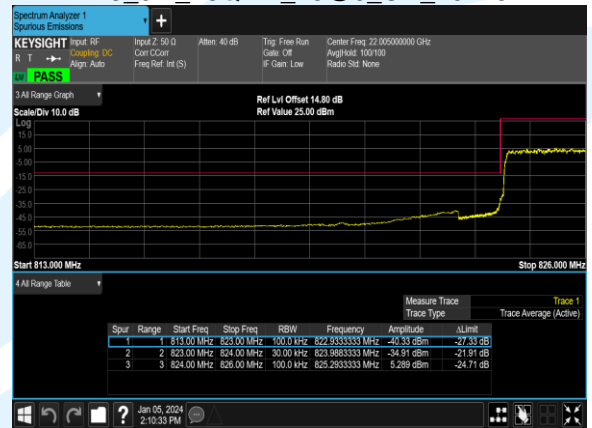
B5_3M_QPSK_15@0_CH_20415



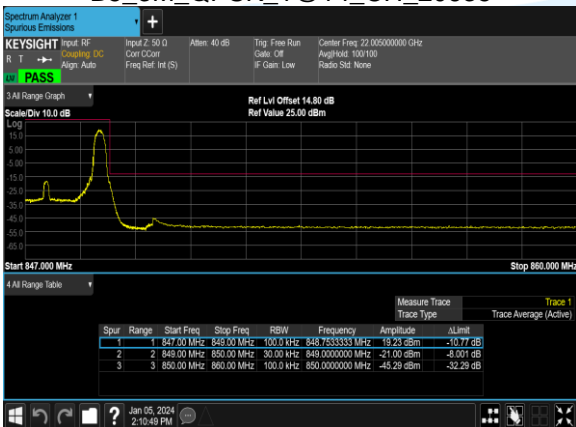
B5_3M_16QAM_1@0_CH_20415



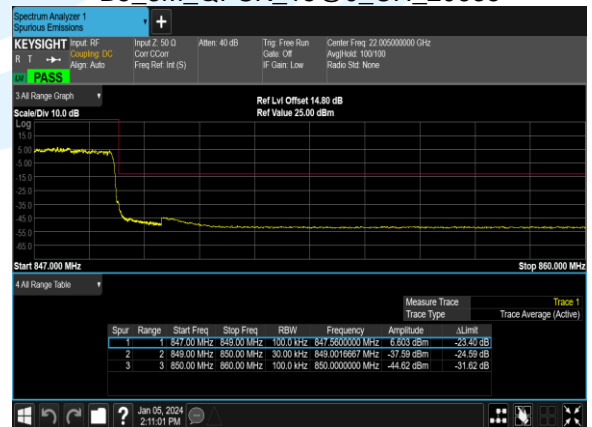
B5_3M_16QAM_15@0_CH_20415



B5_3M_QPSK_1@14_CH_20635



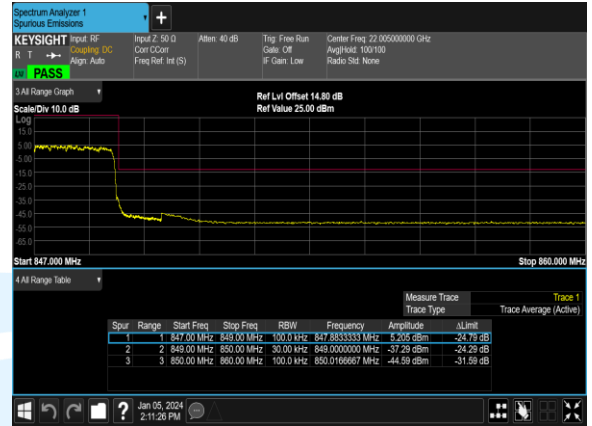
B5_3M_QPSK_15@0_CH_20635



B5_3M_16QAM_1@14_CH_20635



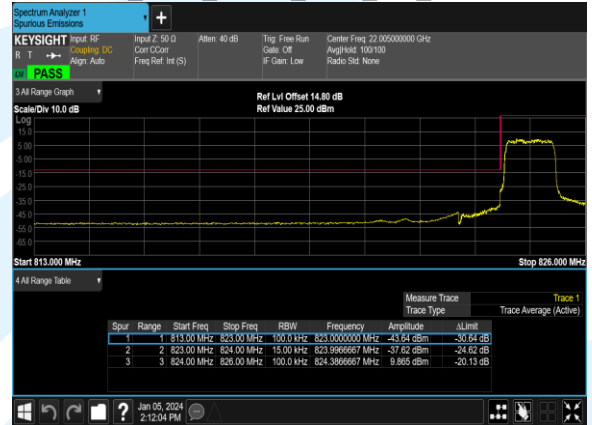
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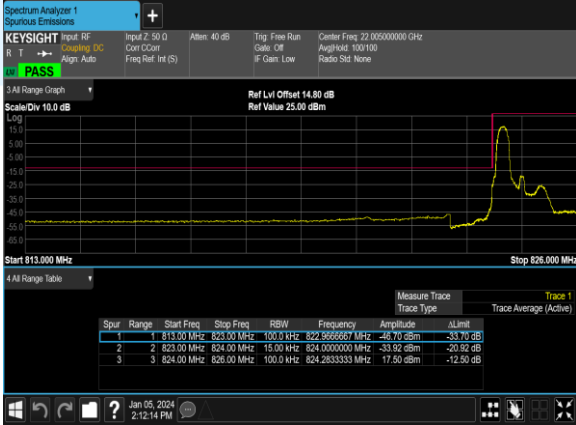
B5_1.4M_QPSK_1@0_CH_20407



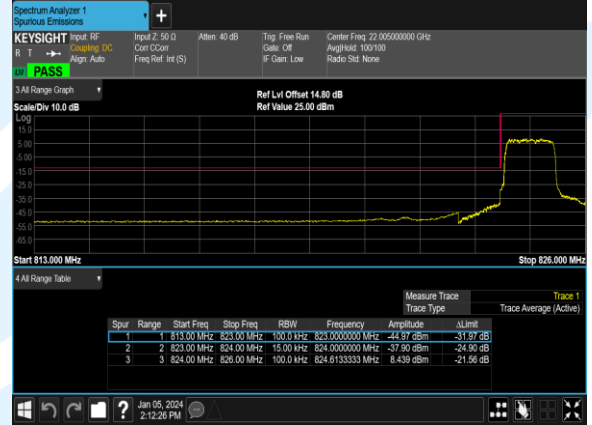
B5_1.4M_QPSK_6@0_CH_20407



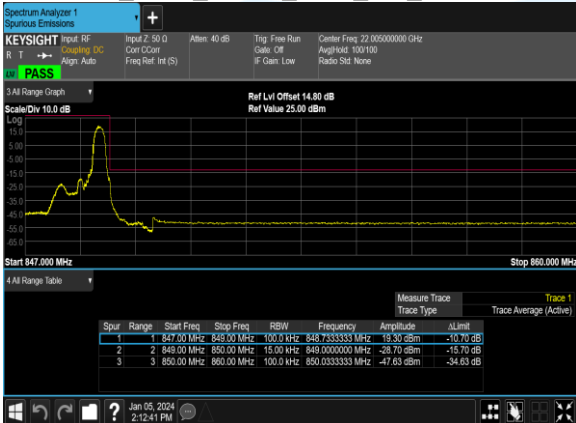
B5_1.4M_16QAM_1@0_CH_20407



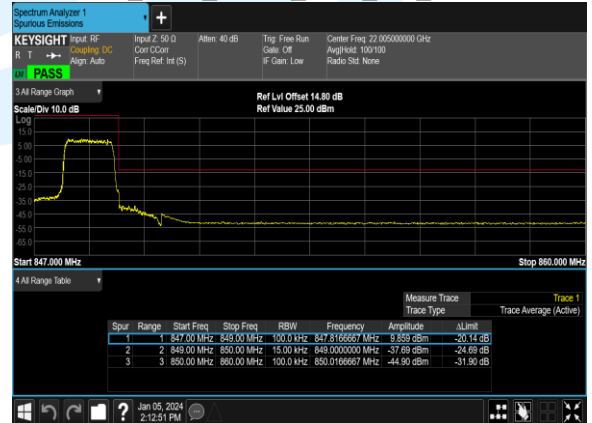
B5_1.4M_16QAM_6@0_CH_20407



B5_1.4M_QPSK_1@5_CH_20643



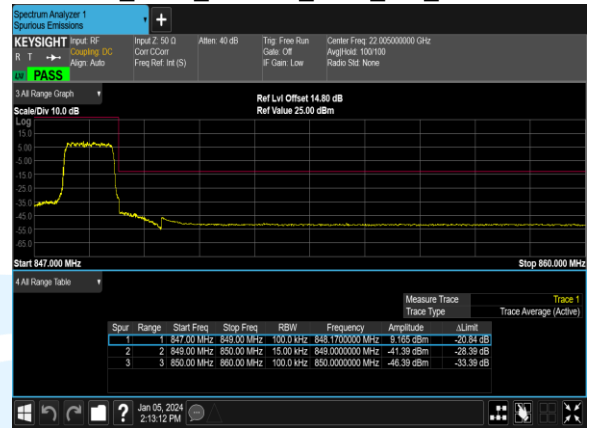
B5_1.4M_QPSK_6@0_CH_20643



B5_1.4M_16QAM_1@5_CH_20643



B5_1.4M_16QAM_6@0_CH_20643



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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	5.49	13	PASS
7	20.0	20850	2510.0	16QAM	100@0	6.17	13	PASS
7	20.0	21100	2535.0	QPSK	100@0	5.53	13	PASS
7	20.0	21100	2535.0	16QAM	100@0	6.35	13	PASS
7	20.0	21350	2560.0	QPSK	100@0	5.54	13	PASS
7	20.0	21350	2560.0	16QAM	100@0	6.27	13	PASS
7	15.0	20825	2507.5	QPSK	75@0	5.28	13	PASS
7	15.0	20825	2507.5	16QAM	75@0	6.07	13	PASS
7	15.0	21100	2535.0	QPSK	75@0	5.45	13	PASS
7	15.0	21100	2535.0	16QAM	75@0	6.25	13	PASS
7	15.0	21375	2562.5	QPSK	75@0	5.41	13	PASS
7	15.0	21375	2562.5	16QAM	75@0	6.17	13	PASS
7	10.0	20800	2505.0	QPSK	50@0	5.40	13	PASS
7	10.0	20800	2505.0	16QAM	50@0	6.23	13	PASS
7	10.0	21100	2535.0	QPSK	50@0	5.64	13	PASS
7	10.0	21100	2535.0	16QAM	50@0	6.43	13	PASS
7	10.0	21400	2565.0	QPSK	50@0	5.55	13	PASS
7	10.0	21400	2565.0	16QAM	50@0	6.32	13	PASS
7	5.0	20775	2502.5	QPSK	25@0	5.55	13	PASS
7	5.0	20775	2502.5	16QAM	25@0	6.22	13	PASS
7	5.0	21100	2535.0	QPSK	25@0	5.68	13	PASS
7	5.0	21100	2535.0	16QAM	25@0	6.36	13	PASS
7	5.0	21425	2567.5	QPSK	25@0	5.59	13	PASS
7	5.0	21425	2567.5	16QAM	25@0	6.28	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



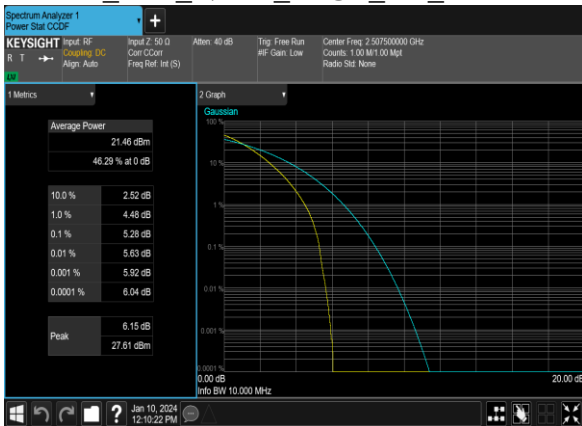
B7_20M_QPSK_100@0_CH_21350



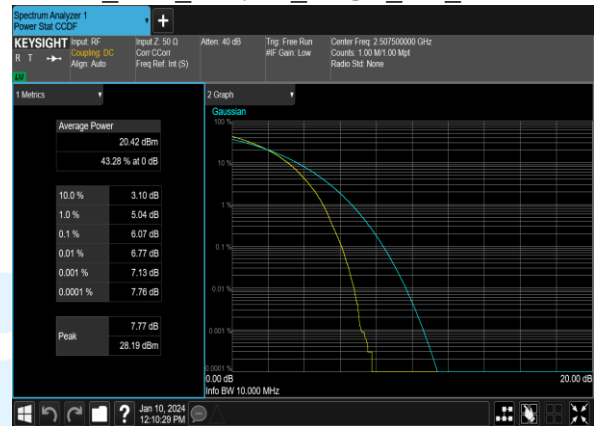
B7_20M_16QAM_100@0_CH_21350



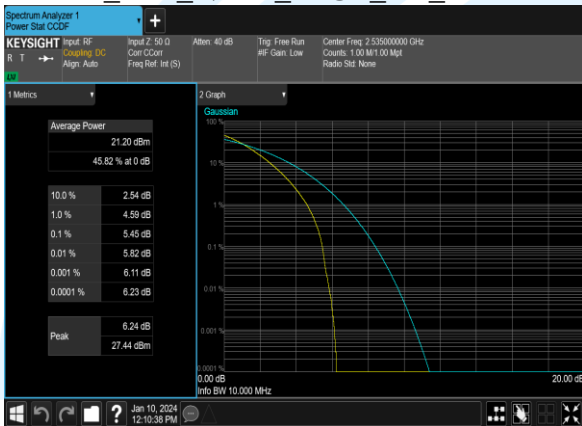
B7_15M_QPSK_75@0_CH_20825



B7_15M_16QAM_75@0_CH_20825



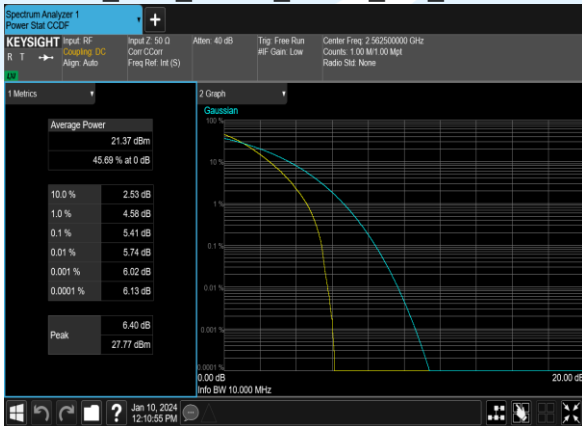
B7_15M_QPSK_75@0_CH_21100



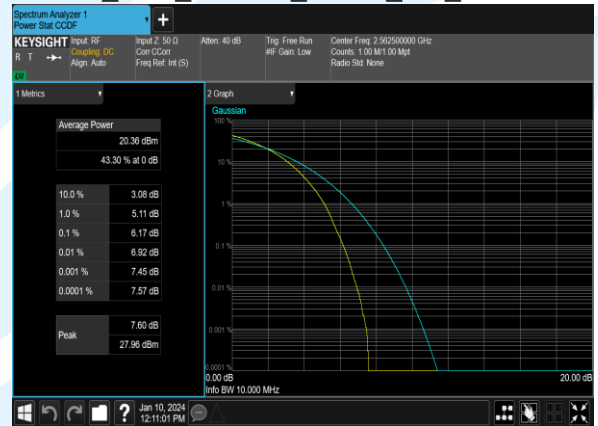
B7_15M_16QAM_75@0_CH_21100



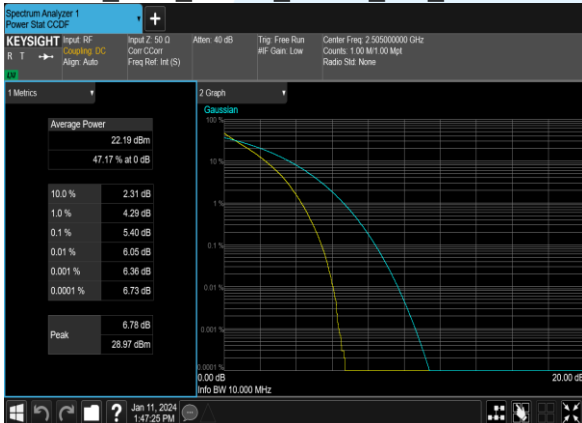
B7_15M_QPSK_75@0_CH_21375



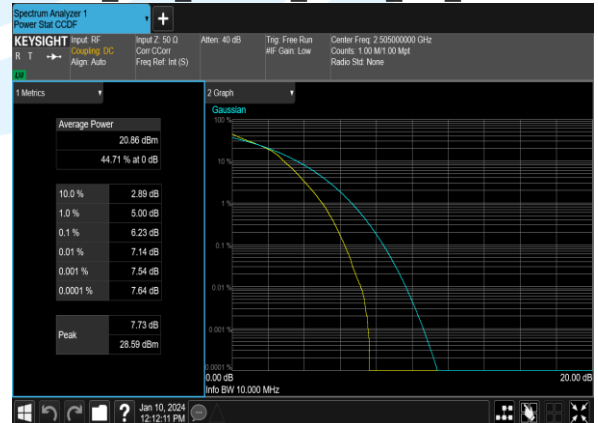
B7_15M_16QAM_75@0_CH_21375



B7_10M_QPSK_50@0_CH_20800



B7_10M_16QAM_50@0_CH_20800



B7_10M_QPSK_50@0_CH_21100



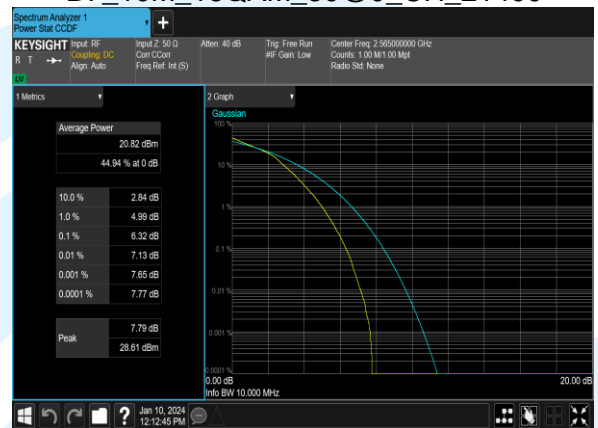
B7_10M_16QAM_50@0_CH_21100



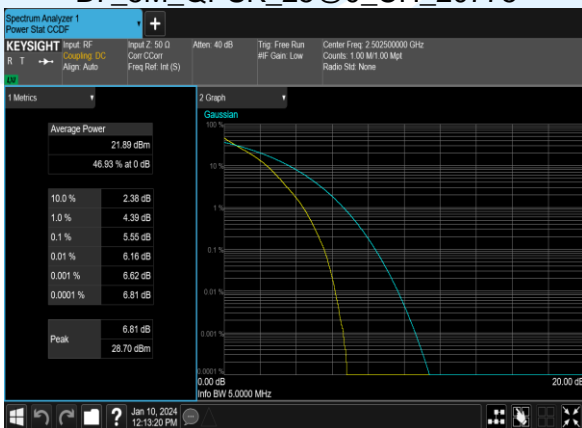
B7_10M_QPSK_50@0_CH_21400



B7_10M_16QAM_50@0_CH_21400



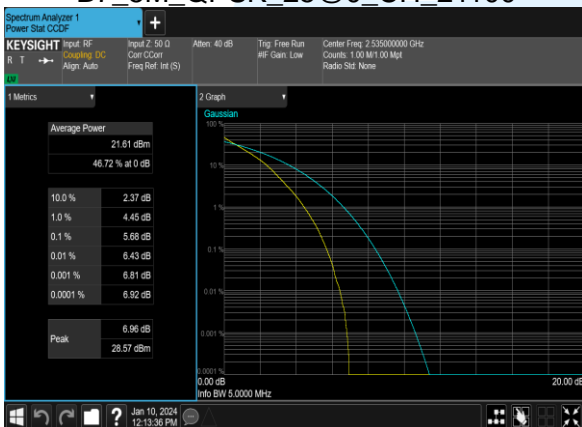
B7_5M_QPSK_25@0_CH_20775



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



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Occupied Bandwidth

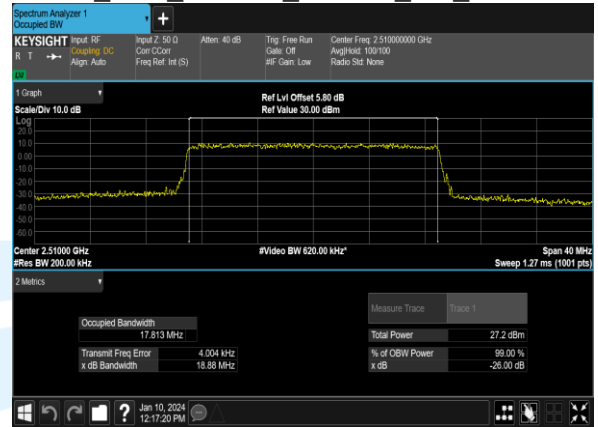
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	20.0	20850	2510.0	QPSK	100@0	17.795	18.77
7	20.0	20850	2510.0	16QAM	100@0	17.813	18.88
7	20.0	21100	2535.0	QPSK	100@0	17.856	18.78
7	20.0	21100	2535.0	16QAM	100@0	17.843	18.74
7	20.0	21350	2560.0	QPSK	100@0	17.834	18.87
7	20.0	21350	2560.0	16QAM	100@0	17.853	18.82
7	15.0	20825	2507.5	QPSK	75@0	13.398	14.08
7	15.0	20825	2507.5	16QAM	75@0	13.361	14.28
7	15.0	21100	2535.0	QPSK	75@0	13.417	14.23
7	15.0	21100	2535.0	16QAM	75@0	13.413	14.19
7	15.0	21375	2562.5	QPSK	75@0	13.396	14.33
7	15.0	21375	2562.5	16QAM	75@0	13.414	14.19
7	10.0	20800	2505.0	QPSK	50@0	8.9238	9.476
7	10.0	20800	2505.0	16QAM	50@0	8.9289	9.349
7	10.0	21100	2535.0	QPSK	50@0	8.9466	9.459
7	10.0	21100	2535.0	16QAM	50@0	8.9178	9.485
7	10.0	21400	2565.0	QPSK	50@0	8.9327	9.458
7	10.0	21400	2565.0	16QAM	50@0	8.9398	9.448
7	5.0	20775	2502.5	QPSK	25@0	4.4590	4.833
7	5.0	20775	2502.5	16QAM	25@0	4.4670	4.798
7	5.0	21100	2535.0	QPSK	25@0	4.4568	4.785
7	5.0	21100	2535.0	16QAM	25@0	4.4595	4.779
7	5.0	21425	2567.5	QPSK	25@0	4.4683	4.742
7	5.0	21425	2567.5	16QAM	25@0	4.4628	4.788

Test Graphs

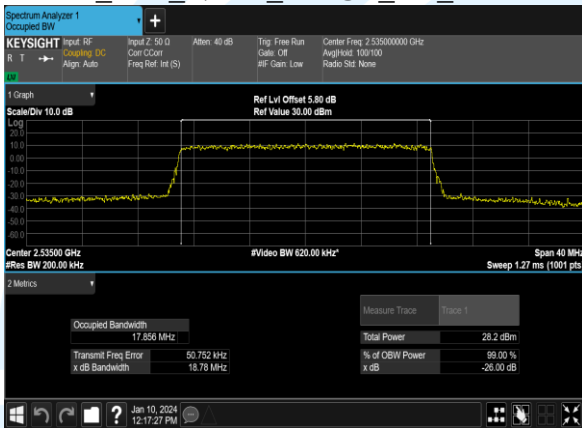
B7_20M_QPSK_100@0_CH_20850



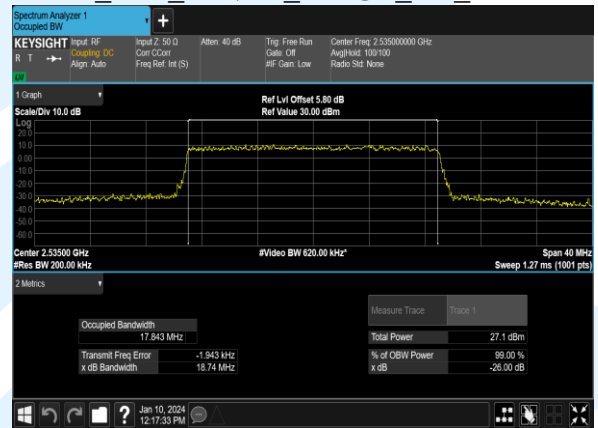
B7_20M_16QAM_100@0_CH_20850



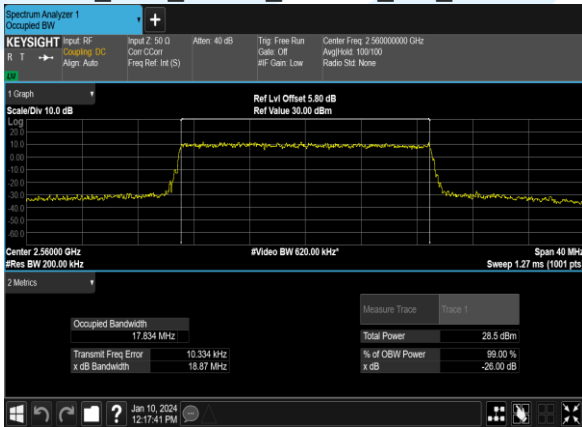
B7_20M_QPSK_100@0_CH_21100



B7_20M_16QAM_100@0_CH_21100



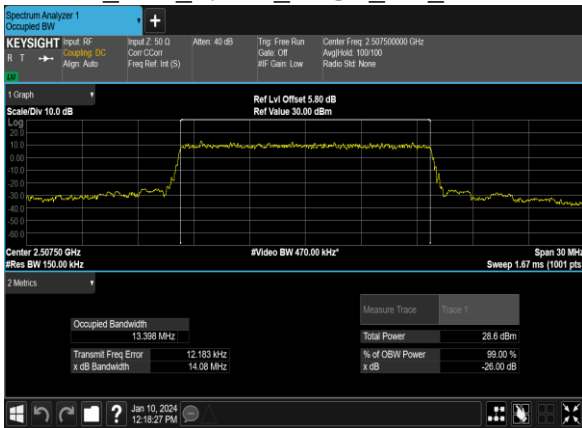
B7_20M_QPSK_100@0_CH_21350



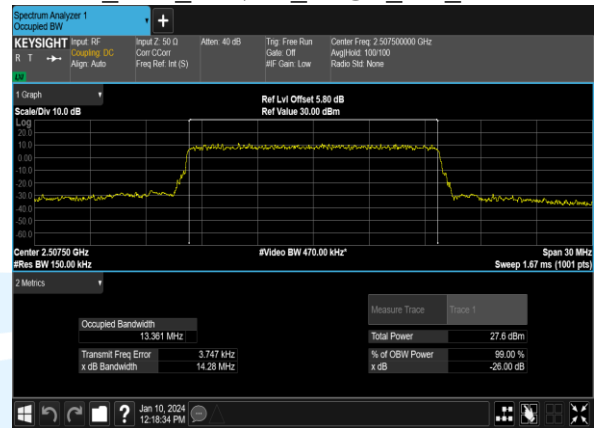
B7_20M_16QAM_100@0_CH_21350



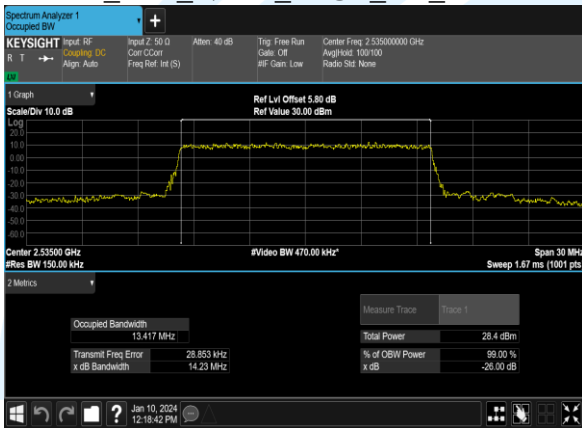
B7_15M_QPSK_75@0_CH_20825



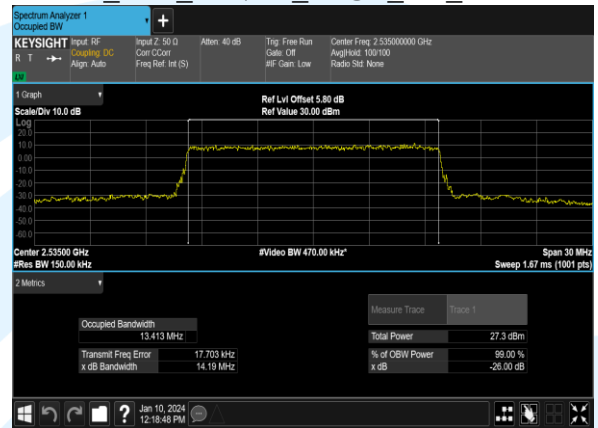
B7_15M_16QAM_75@0_CH_20825



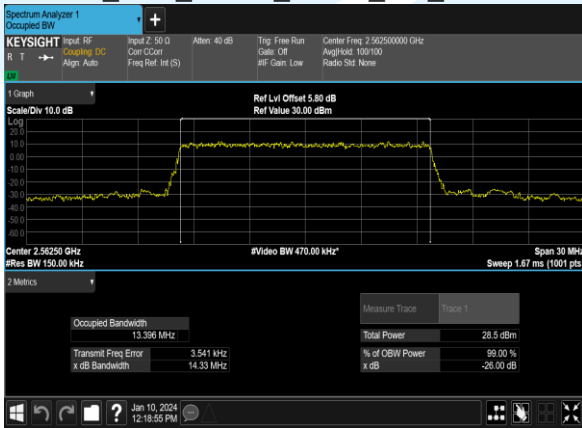
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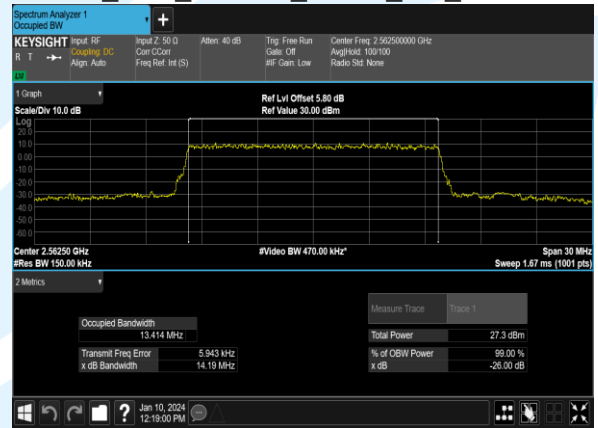
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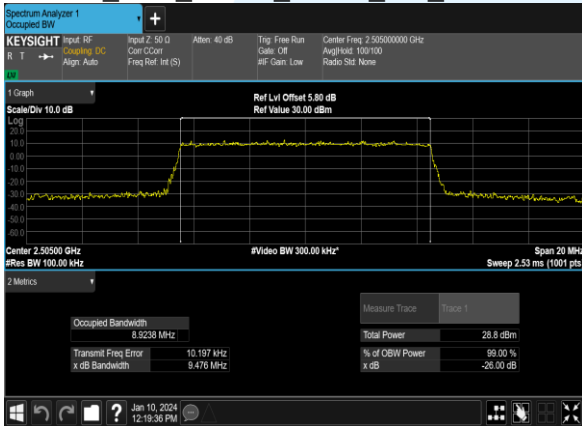
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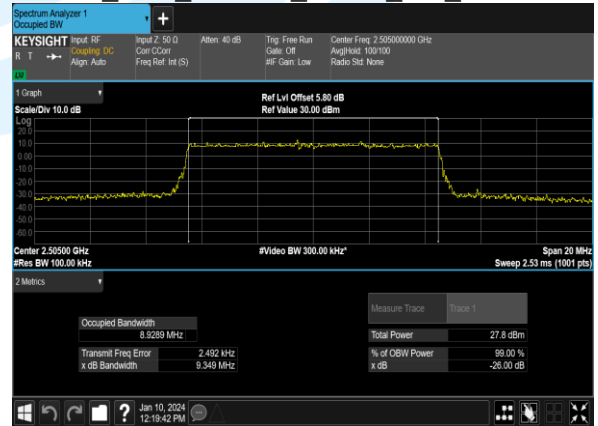
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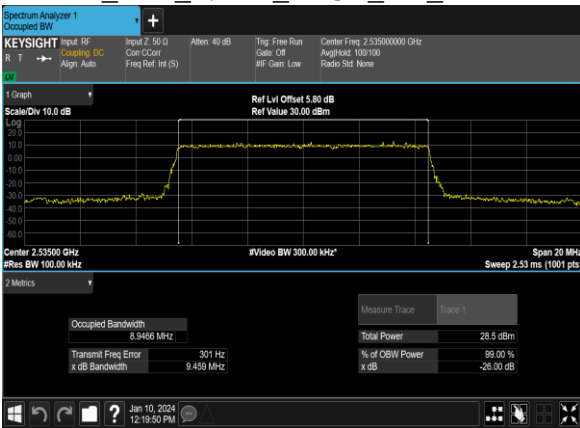
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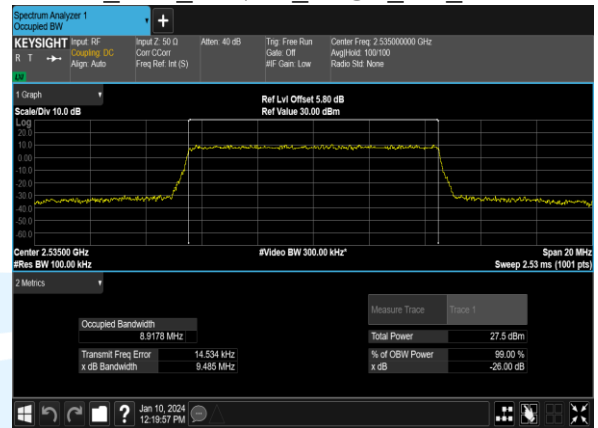
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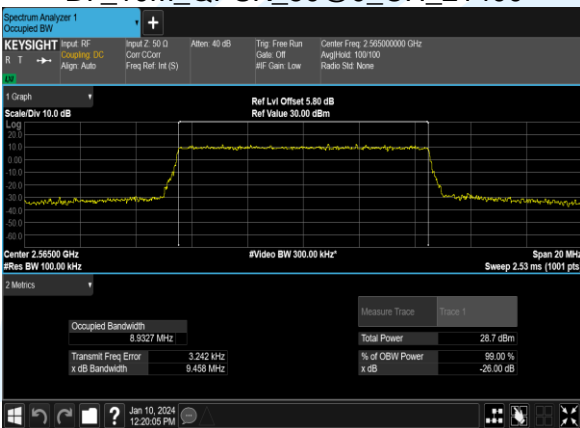
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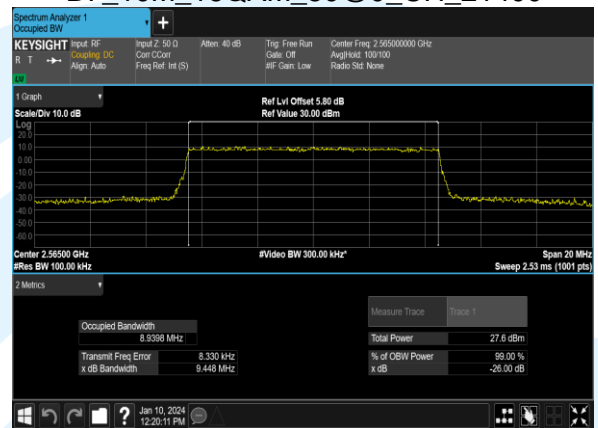
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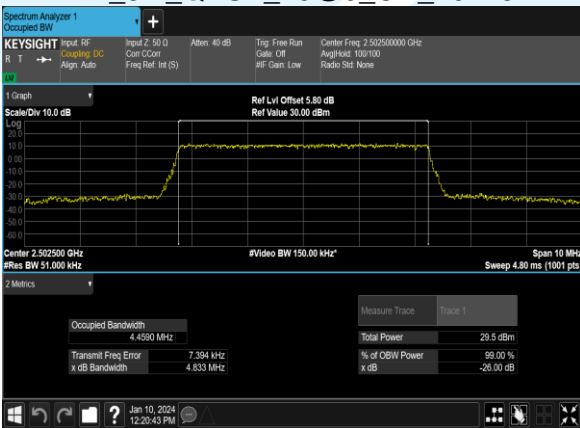
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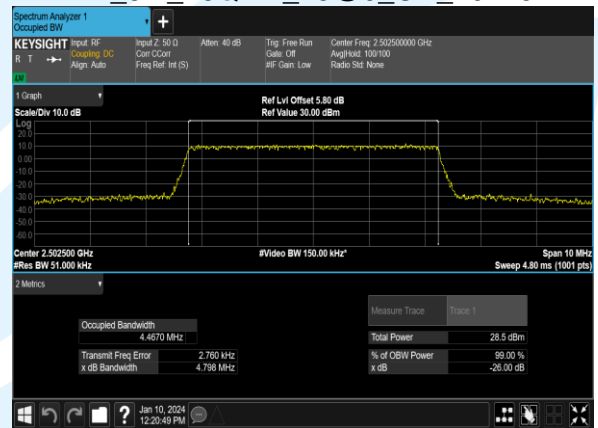
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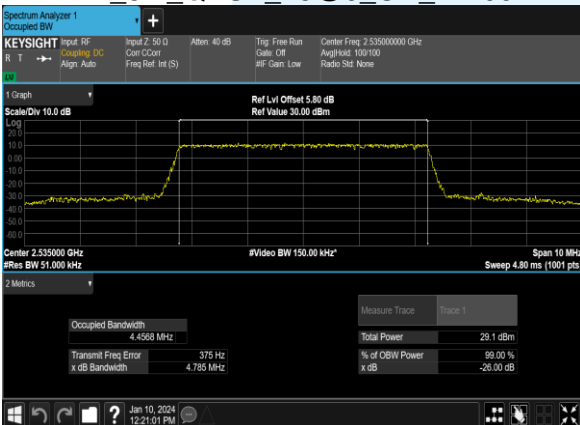
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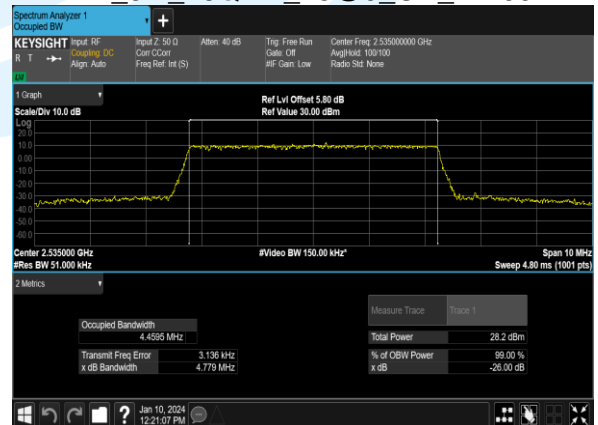
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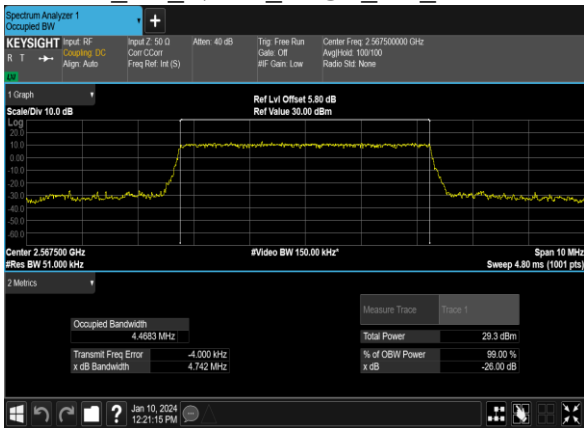
Fax: +86-755-28230886

E-mail: info@uttlab.com

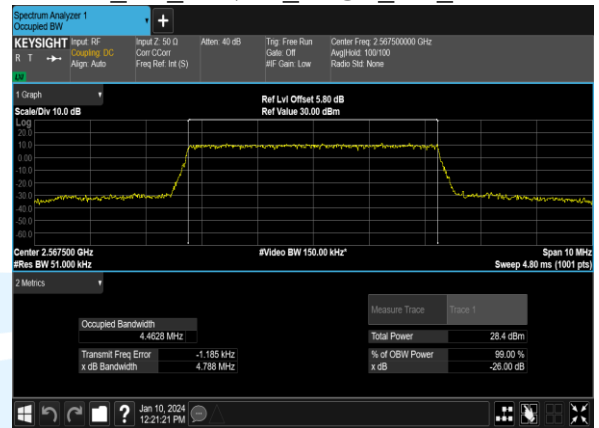
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B7_5M_QPSK_25@0_CH_21425



B7_5M_16QAM_25@0_CH_21425



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Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
7	20.0	20850	2510.0	QPSK	1@0	-35.28	-25	PASS
7	20.0	20850	2510.0	16QAM	1@0	-35.37	-25	PASS
7	20.0	21100	2535.0	QPSK	1@0	-35.68	-25	PASS
7	20.0	21100	2535.0	16QAM	1@0	-36.12	-25	PASS
7	20.0	21350	2560.0	QPSK	1@0	-35.2	-25	PASS
7	20.0	21350	2560.0	16QAM	1@0	-35.63	-25	PASS
7	15.0	20825	2507.5	QPSK	1@0	-36.5	-25	PASS
7	15.0	20825	2507.5	16QAM	1@0	-35.53	-25	PASS
7	15.0	21100	2535.0	QPSK	1@0	-35.75	-25	PASS
7	15.0	21100	2535.0	16QAM	1@0	-35.83	-25	PASS
7	15.0	21375	2562.5	QPSK	1@0	-35.45	-25	PASS
7	15.0	21375	2562.5	16QAM	1@0	-36.34	-25	PASS
7	10.0	20800	2505.0	QPSK	1@0	-35.07	-25	PASS
7	10.0	20800	2505.0	16QAM	1@0	-35.24	-25	PASS
7	10.0	21100	2535.0	QPSK	1@0	-35.96	-25	PASS
7	10.0	21100	2535.0	16QAM	1@0	-35.79	-25	PASS
7	10.0	21400	2565.0	QPSK	1@0	-35.32	-25	PASS
7	10.0	21400	2565.0	16QAM	1@0	-36.01	-25	PASS
7	5.0	20775	2502.5	QPSK	1@0	-35.53	-25	PASS
7	5.0	20775	2502.5	16QAM	1@0	-35.28	-25	PASS
7	5.0	21100	2535.0	QPSK	1@0	-35.31	-25	PASS
7	5.0	21100	2535.0	16QAM	1@0	-36.2	-25	PASS
7	5.0	21425	2567.5	QPSK	1@0	-36.2	-25	PASS
7	5.0	21425	2567.5	16QAM	1@0	-35.89	-25	PASS

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