

A.6 LTE BAND 13

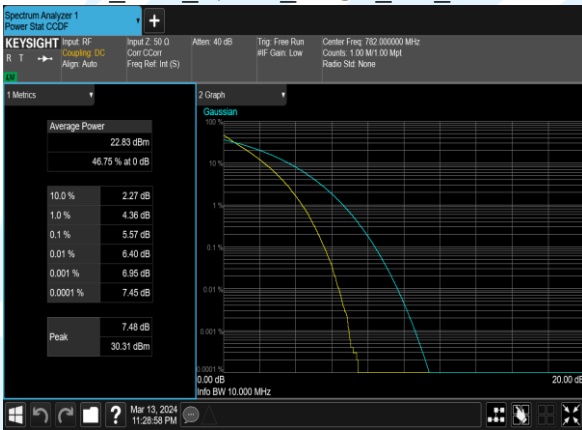
Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
13	10.0	23230	782.0	QPSK	50@0	5.57	13	PASS
13	10.0	23230	782.0	16QAM	50@0	6.28	13	PASS
13	5.0	23205	779.5	QPSK	25@0	5.56	13	PASS
13	5.0	23205	779.5	16QAM	25@0	6.22	13	PASS
13	5.0	23230	782.0	QPSK	25@0	5.62	13	PASS
13	5.0	23230	782.0	16QAM	25@0	6.26	13	PASS
13	5.0	23255	784.5	QPSK	25@0	5.51	13	PASS
13	5.0	23255	784.5	16QAM	25@0	6.18	13	PASS

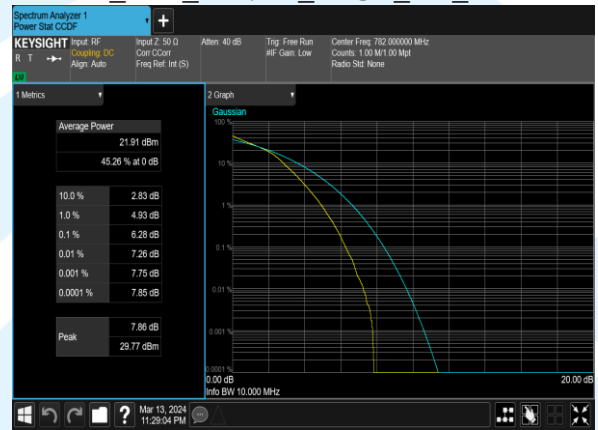
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
13	10.0	23230	782.0	64QAM	50@0	6.26	13	PASS
13	5.0	23205	779.5	64QAM	25@0	6.18	13	PASS
13	5.0	23230	782.0	64QAM	25@0	6.25	13	PASS
13	5.0	23255	784.5	64QAM	25@0	6.18	13	PASS

Test Graphs

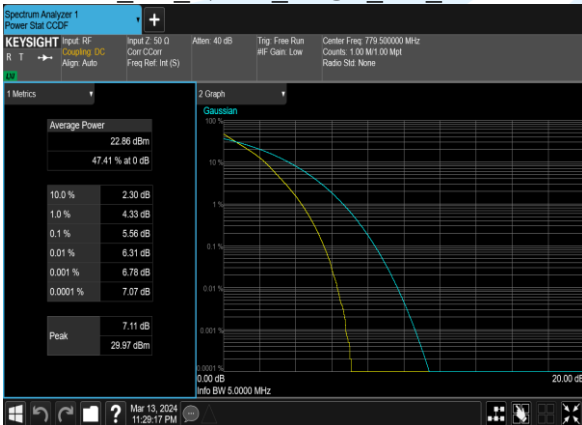
B13_10M_QPSK_50@0_CH_23230



B13_10M_16QAM_50@0_CH_23230



B13_5M_QPSK_25@0_CH_23205



B13_5M_16QAM_25@0_CH_23205



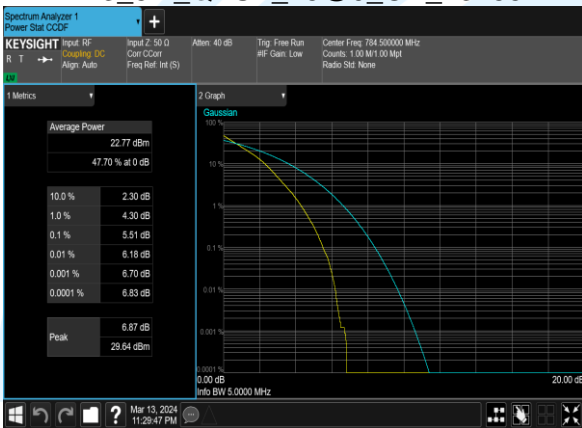
B13_5M_QPSK_25@0_CH_23230



B13_5M_16QAM_25@0_CH_23230



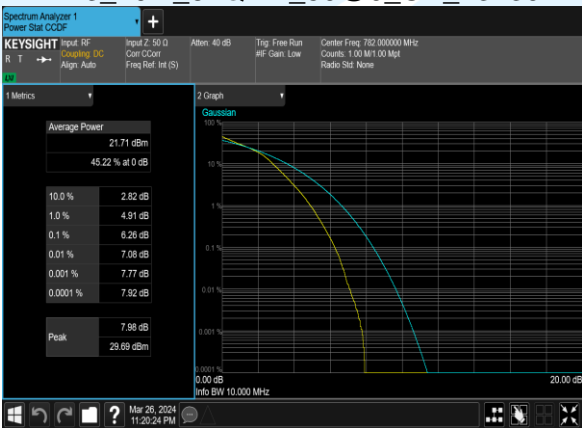
B13_5M_QPSK_25@0_CH_23255



B13_5M_16QAM_25@0_CH_23255



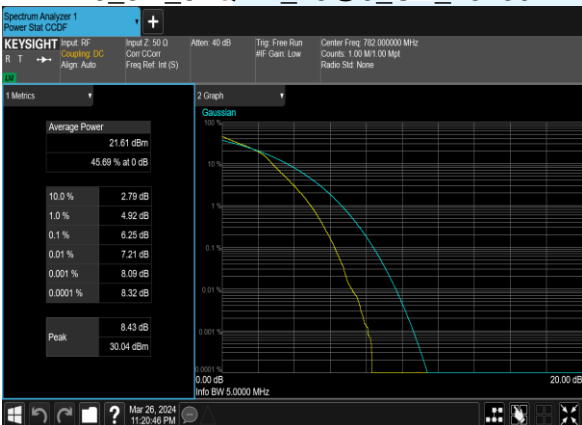
B13_10M_64QAM_50@0_CH_23230



B13_5M_64QAM_25@0_CH_23205



B13_5M_64QAM_25@0_CH_23230



B13_5M_64QAM_25@0_CH_23255



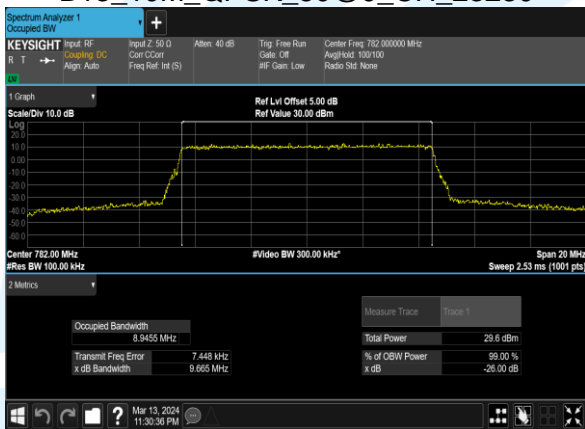
Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
13	10.0	23230	782.0	QPSK	50@0	8.9455	9.665
13	10.0	23230	782.0	16QAM	50@0	8.9265	9.642
13	5.0	23205	779.5	QPSK	25@0	4.4472	4.840
13	5.0	23205	779.5	16QAM	25@0	4.4498	4.804
13	5.0	23230	782.0	QPSK	25@0	4.4634	4.884
13	5.0	23230	782.0	16QAM	25@0	4.4538	4.874
13	5.0	23255	784.5	QPSK	25@0	4.4545	4.854
13	5.0	23255	784.5	16QAM	25@0	4.4505	4.888

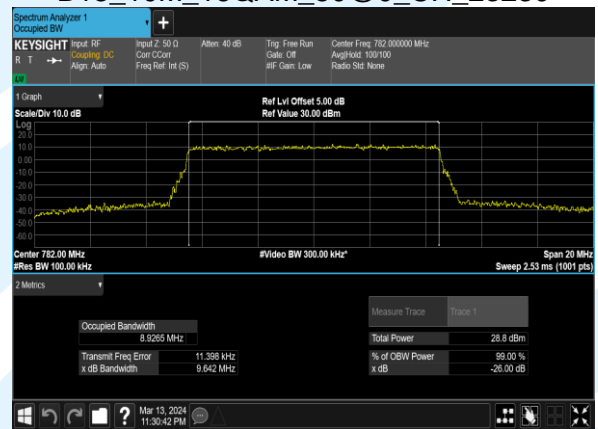
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
13	10.0	23230	782.0	64QAM	50@0	8.9208	9.629
13	5.0	23205	779.5	64QAM	25@0	4.4591	4.835
13	5.0	23230	782.0	64QAM	25@0	4.4506	4.880
13	5.0	23255	784.5	64QAM	25@0	4.4627	4.843

Test Graphs

B13_10M_QPSK_50@0_CH_23230



B13_10M_16QAM_50@0_CH_23230



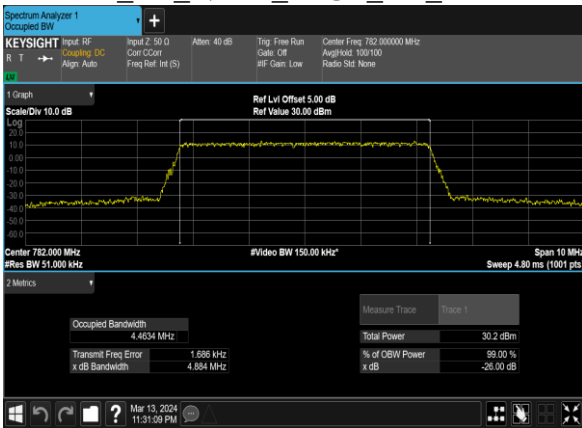
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B13_5M_16QAM_25@0_CH_23205



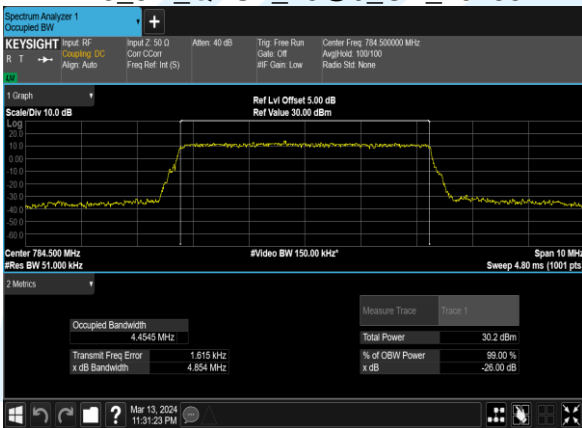
B13_5M_QPSK_25@0_CH_23230



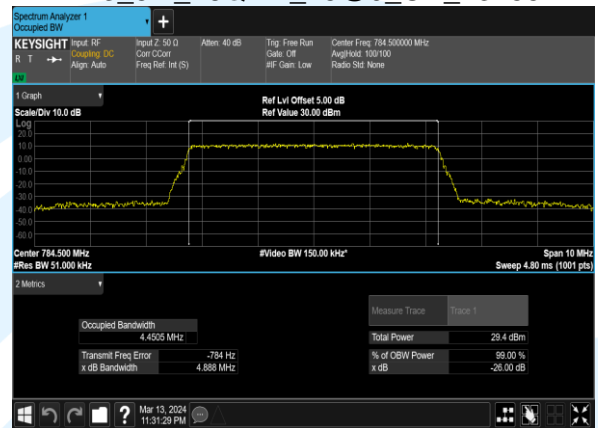
B13_5M_16QAM_25@0_CH_23230



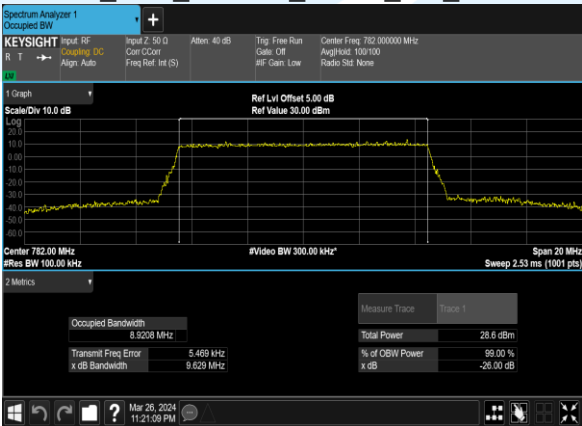
B13_5M_QPSK_25@0_CH_23255



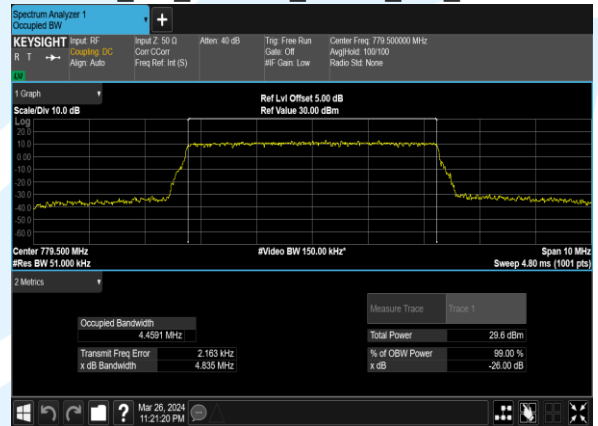
B13_5M_16QAM_25@0_CH_23255



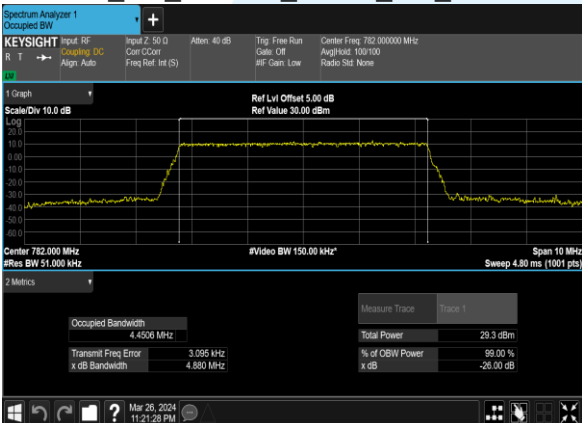
B13_10M_64QAM_50@0_CH_23230



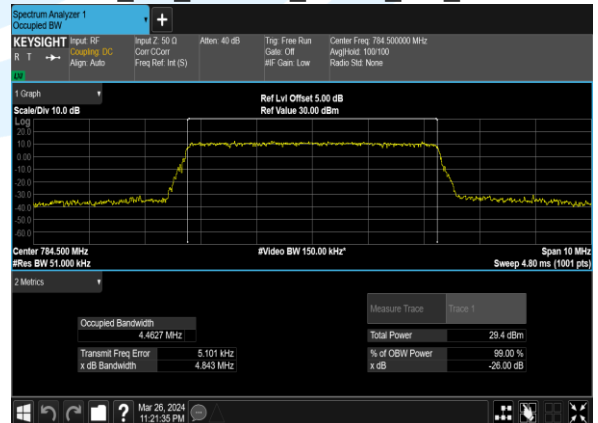
B13_5M_64QAM_25@0_CH_23205



B13_5M_64QAM_25@0_CH_23230



B13_5M_64QAM_25@0_CH_23255



Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
13	10.0	23230	782.0	QPSK	1@0	-30.9	-13	PASS
13	10.0	23230	782.0	16QAM	1@0	-30.53	-13	PASS
13	5.0	23205	779.5	QPSK	1@0	-31.52	-13	PASS
13	5.0	23205	779.5	16QAM	1@0	-30.99	-13	PASS
13	5.0	23230	782.0	QPSK	1@0	-30.95	-13	PASS
13	5.0	23230	782.0	16QAM	1@0	-30.57	-13	PASS
13	5.0	23255	784.5	QPSK	1@0	-30.59	-13	PASS
13	5.0	23255	784.5	16QAM	1@0	-31.13	-13	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
13	10.0	23230	782.0	64QAM	1@0	-30.52	-13	PASS
13	5.0	23205	779.5	64QAM	1@0	-30.29	-13	PASS
13	5.0	23230	782.0	64QAM	1@0	-31.06	-13	PASS
13	5.0	23255	784.5	64QAM	1@0	-30.67	-13	PASS

Test Graphs

B13_10M_QPSK_1@0_CH_23230



B13_10M_16QAM_1@0_CH_23230



B13_5M_QPSK_1@0_CH_23205



B13_5M_16QAM_1@0_CH_23205



B13_5M_QPSK_1@0_CH_23230



B13_5M_16QAM_1@0_CH_23230



B13_5M_QPSK_1@0_CH_23255



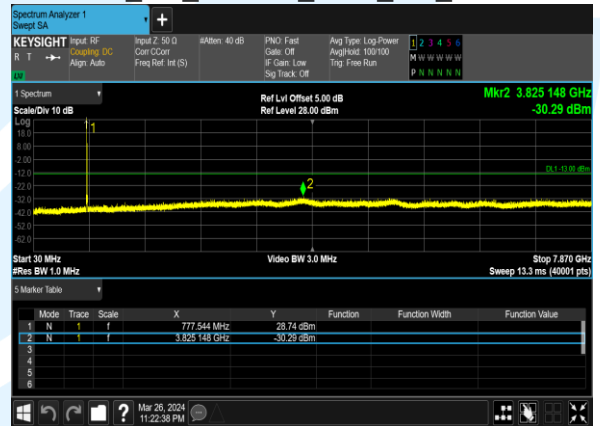
B13_5M_16QAM_1@0_CH_23255



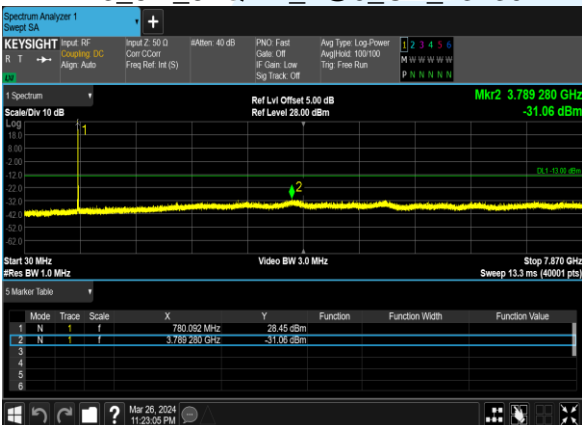
B13_10M_64QAM_1@0_CH_23230



B13_5M_64QAM_1@0_CH_23205



B13_5M_64QAM_1@0_CH_23230



B13_5M_64QAM_1@0_CH_23255



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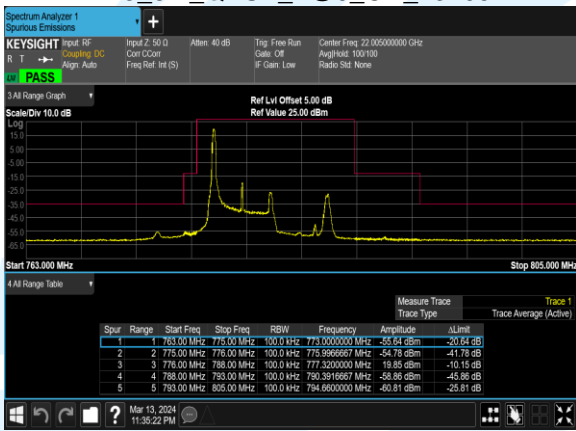
Conducted Band Edge

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
13	5.0	23205	779.5	QPSK	1@0	see graph	PASS
13	5.0	23205	779.5	QPSK	25@0	see graph	PASS
13	5.0	23205	779.5	16QAM	1@0	see graph	PASS
13	5.0	23205	779.5	16QAM	25@0	see graph	PASS
13	5.0	23255	784.5	QPSK	1@24	see graph	PASS
13	5.0	23255	784.5	QPSK	25@0	see graph	PASS
13	5.0	23255	784.5	16QAM	1@24	see graph	PASS
13	5.0	23255	784.5	16QAM	25@0	see graph	PASS

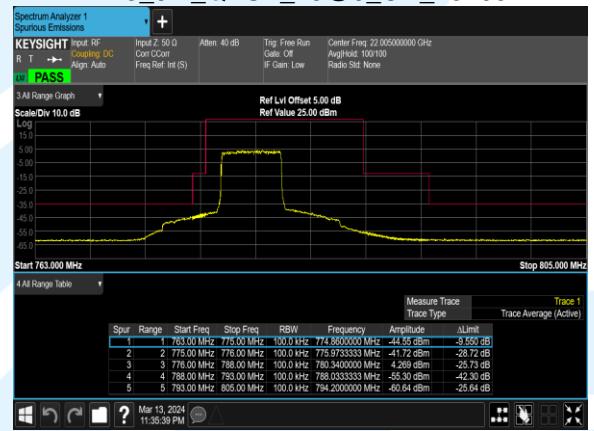
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
13	5.0	23205	779.5	64QAM	1@0	see graph	PASS
13	5.0	23205	779.5	64QAM	25@0	see graph	PASS
13	5.0	23255	784.5	64QAM	1@24	see graph	PASS
13	5.0	23255	784.5	64QAM	25@0	see graph	PASS

Test Graphs

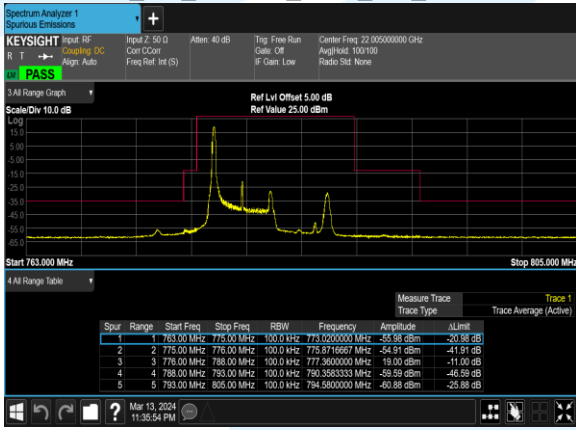
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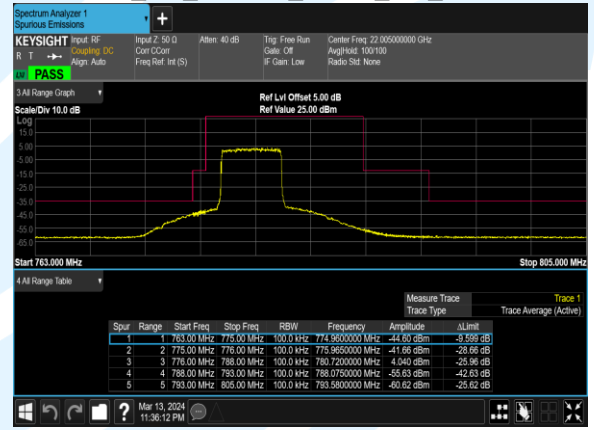
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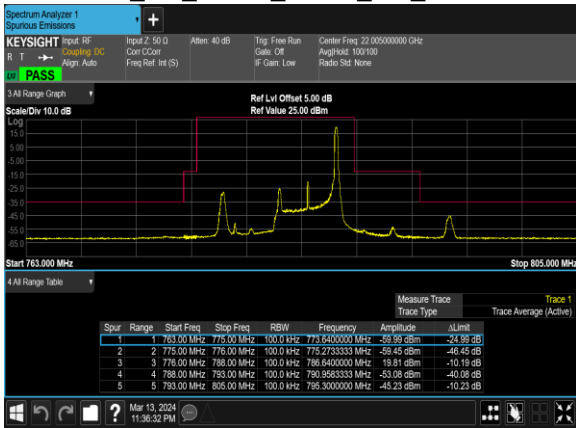
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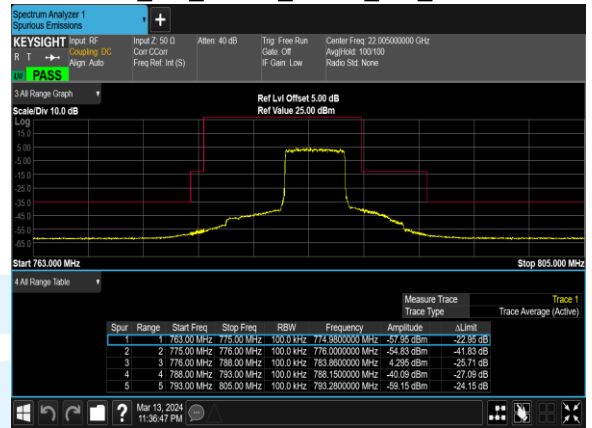
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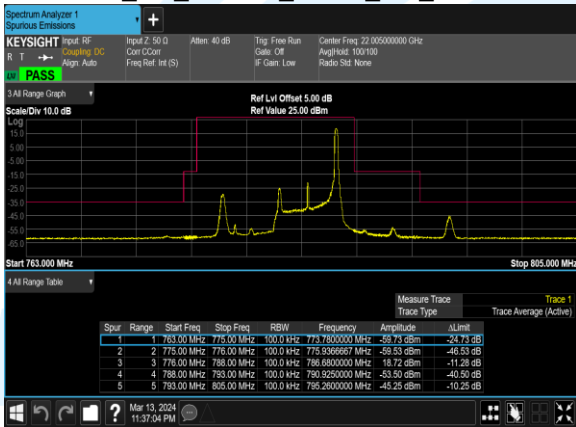
B13_5M_QPSK_1@24_CH_23255



B13_5M_QPSK_25@0_CH_23255



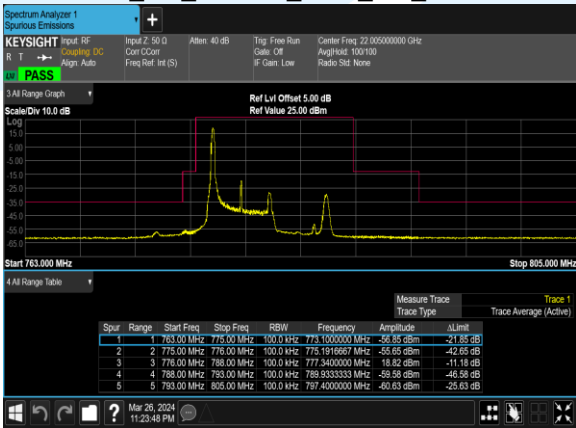
B13_5M_16QAM_1@24_CH_23255



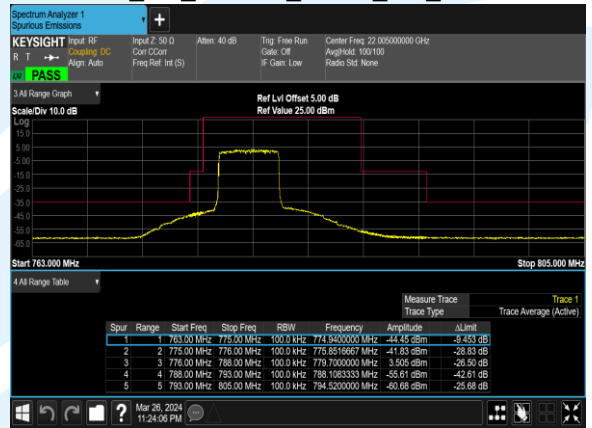
B13_5M_16QAM_25@0_CH_23255



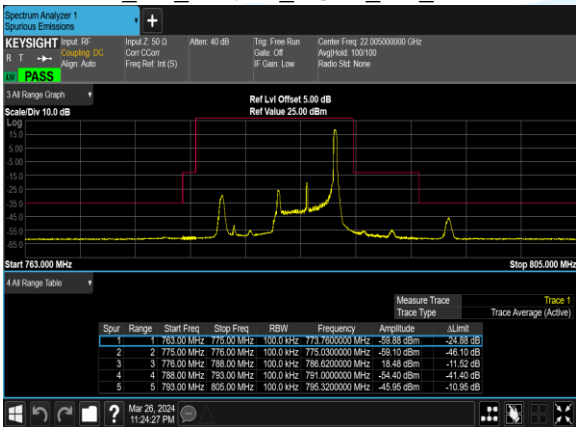
B13_5M_64QAM_1@0_CH_23205



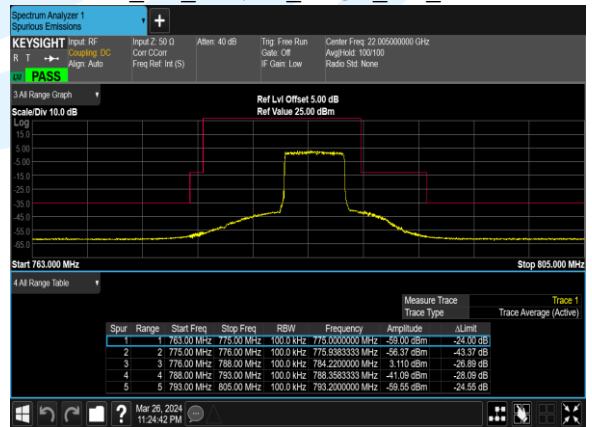
B13_5M_64QAM_25@0_CH_23205



B13_5M_64QAM_1@24_CH_23255



B13_5M_64QAM_25@0_CH_23255



A.7 LTE BAND 17

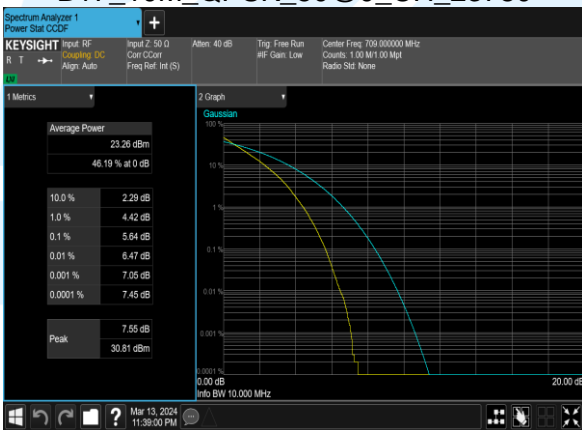
Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
17	10.0	23780	709.0	QPSK	50@0	5.64	13	PASS
17	10.0	23780	709.0	16QAM	50@0	6.37	13	PASS
17	10.0	23790	710.0	QPSK	50@0	5.61	13	PASS
17	10.0	23790	710.0	16QAM	50@0	6.29	13	PASS
17	10.0	23800	711.0	QPSK	50@0	5.54	13	PASS
17	10.0	23800	711.0	16QAM	50@0	6.31	13	PASS
17	5.0	23755	706.5	QPSK	25@0	5.59	13	PASS
17	5.0	23755	706.5	16QAM	25@0	6.23	13	PASS
17	5.0	23790	710.0	QPSK	25@0	5.58	13	PASS
17	5.0	23790	710.0	16QAM	25@0	6.28	13	PASS
17	5.0	23825	713.5	QPSK	25@0	5.41	13	PASS
17	5.0	23825	713.5	16QAM	25@0	6.09	13	PASS

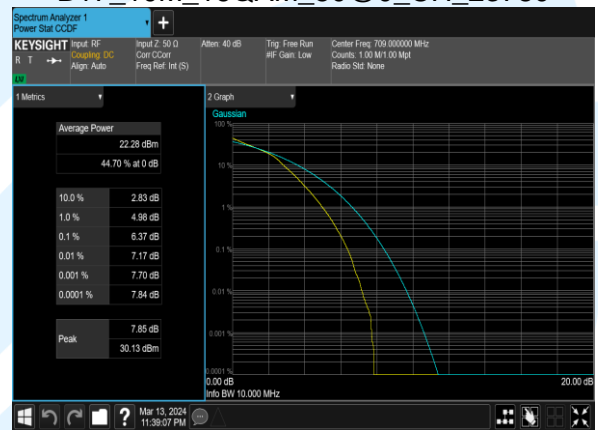
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
17	10.0	23780	709.0	64QAM	50@0	6.36	13	PASS
17	10.0	23790	710.0	64QAM	50@0	6.36	13	PASS
17	10.0	23800	711.0	64QAM	50@0	6.32	13	PASS
17	5.0	23755	706.5	64QAM	25@0	6.23	13	PASS
17	5.0	23790	710.0	64QAM	25@0	6.28	13	PASS
17	5.0	23825	713.5	64QAM	25@0	6.13	13	PASS

Test Graphs

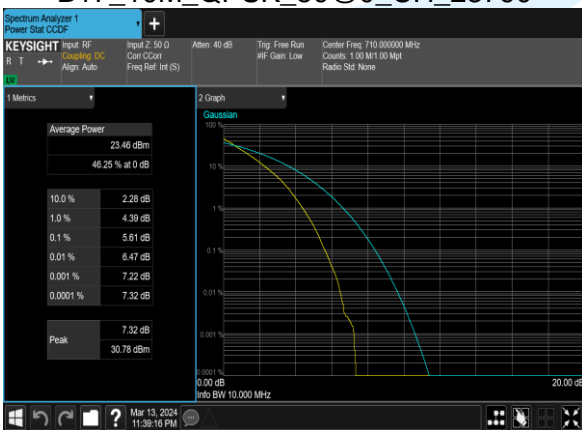
B17_10M_QPSK_50@0_CH_23780



B17_10M_16QAM_50@0_CH_23780



B17_10M_QPSK_50@0_CH_23790



B17_10M_16QAM_50@0_CH_23790



B17_10M_QPSK_50@0_CH_23800



B17_10M_16QAM_50@0_CH_23800



B17_5M_QPSK_25@0_CH_23755



B17_5M_16QAM_25@0_CH_23755



B17_5M_QPSK_25@0_CH_23790



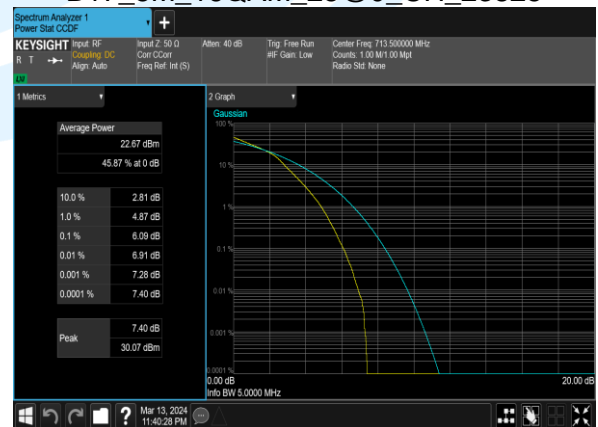
B17_5M_16QAM_25@0_CH_23790



B17_5M_QPSK_25@0_CH_23825



B17_5M_16QAM_25@0_CH_23825



B17_10M_64QAM_50@0_CH_23780



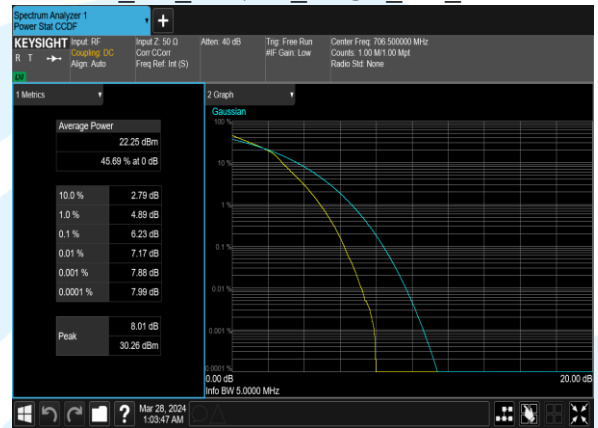
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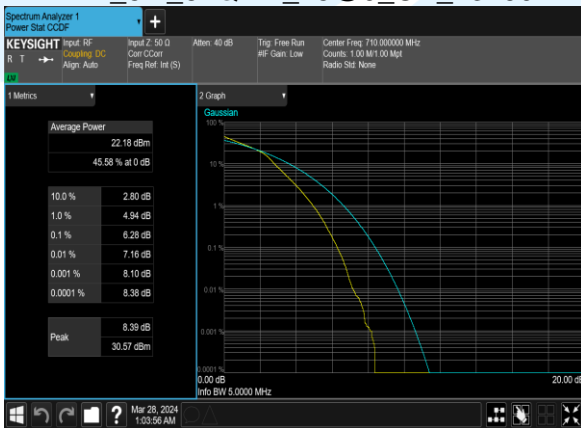
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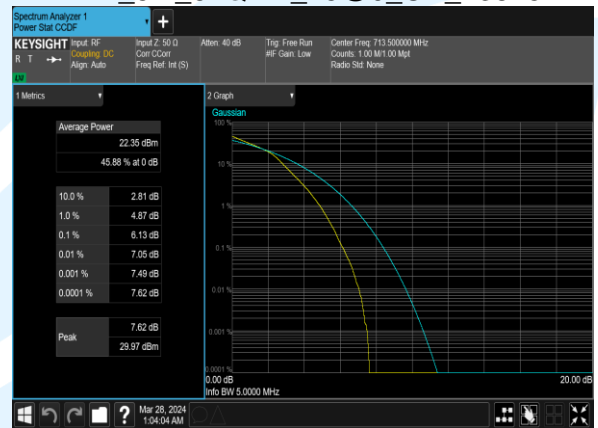
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B17_5M_64QAM_25@0_CH_23790



B17_5M_64QAM_25@0_CH_23825



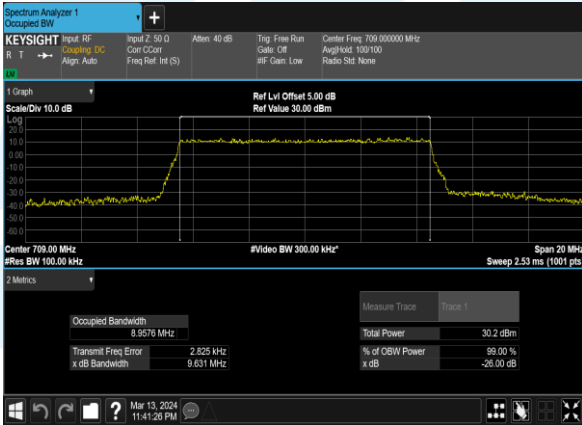
Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
17	10.0	23780	709.0	QPSK	50@0	8.9576	9.631
17	10.0	23780	709.0	16QAM	50@0	8.9409	9.806
17	10.0	23790	710.0	QPSK	50@0	8.9371	9.579
17	10.0	23790	710.0	16QAM	50@0	8.9413	9.726
17	10.0	23800	711.0	QPSK	50@0	8.9341	9.688
17	10.0	23800	711.0	16QAM	50@0	8.9345	9.675
17	5.0	23755	706.5	QPSK	25@0	4.4492	4.869
17	5.0	23755	706.5	16QAM	25@0	4.4587	4.837
17	5.0	23790	710.0	QPSK	25@0	4.4782	4.881
17	5.0	23790	710.0	16QAM	25@0	4.4655	4.877
17	5.0	23825	713.5	QPSK	25@0	4.4458	4.822
17	5.0	23825	713.5	16QAM	25@0	4.4577	4.828

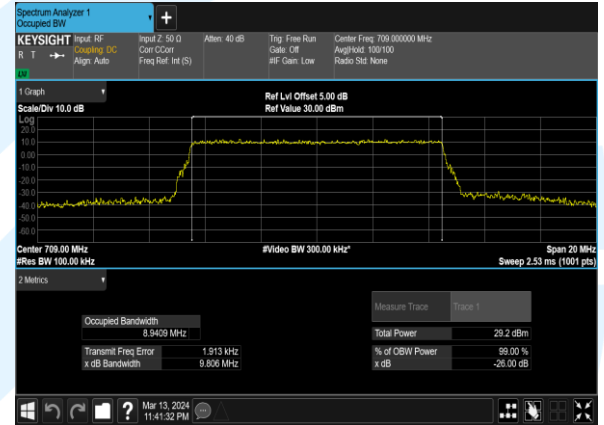
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
17	10.0	23780	709.0	64QAM	50@0	8.9407	9.750
17	10.0	23790	710.0	64QAM	50@0	8.9420	9.561
17	10.0	23800	711.0	64QAM	50@0	8.9442	9.719
17	5.0	23755	706.5	64QAM	25@0	4.4666	4.811
17	5.0	23790	710.0	64QAM	25@0	4.4621	4.870
17	5.0	23825	713.5	64QAM	25@0	4.4474	4.879

Test Graphs

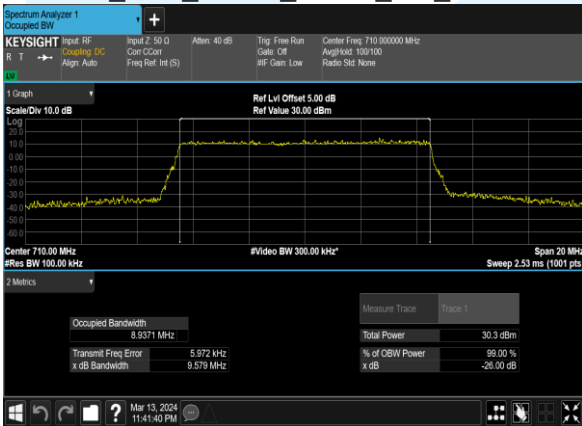
B17_10M_QPSK_50@0_CH_23780



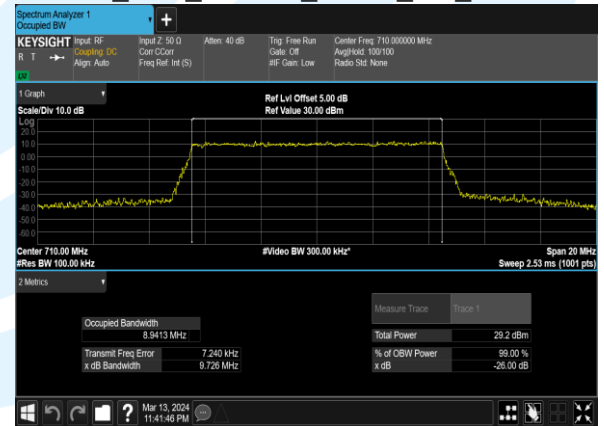
B17_10M_16QAM_50@0_CH_23780



B17_10M_QPSK_50@0_CH_23790



B17_10M_16QAM_50@0_CH_23790



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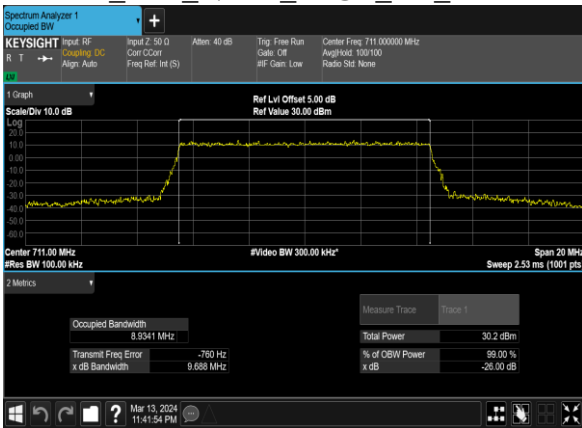
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<http://www.uttlab.com>

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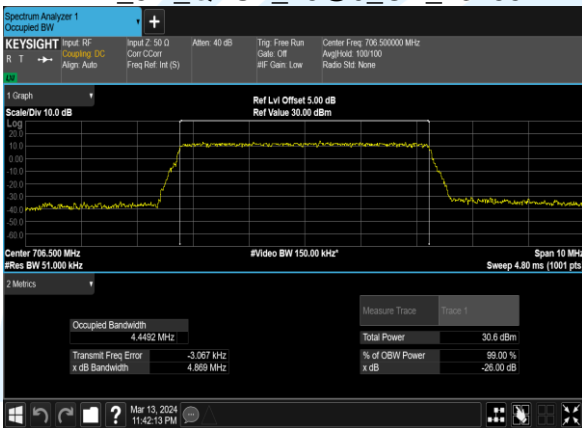
B17_10M_QPSK_50@0_CH_23800



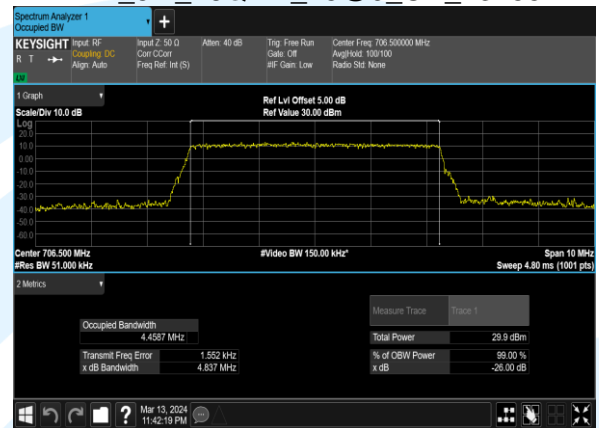
B17_10M_16QAM_50@0_CH_23800



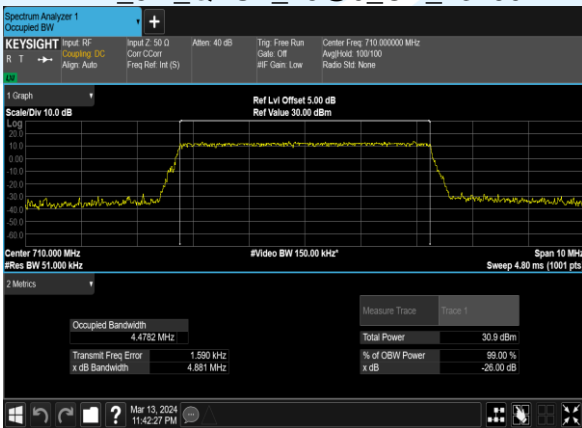
B17_5M_QPSK_25@0_CH_23755



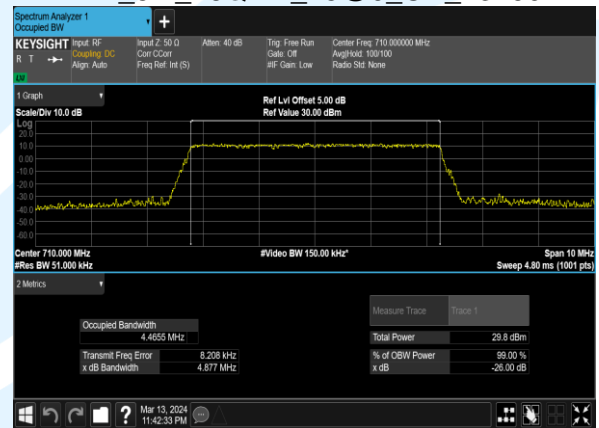
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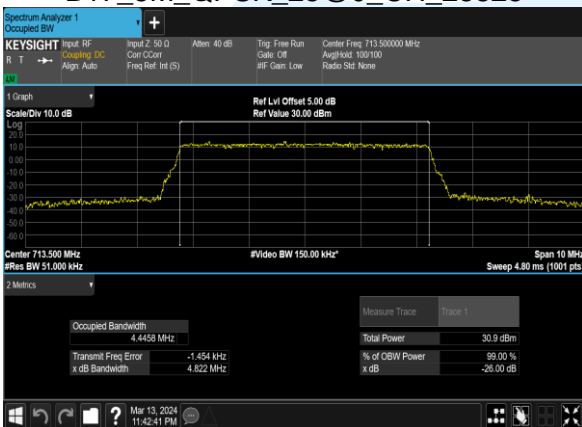
B17_5M_QPSK_25@0_CH_23790



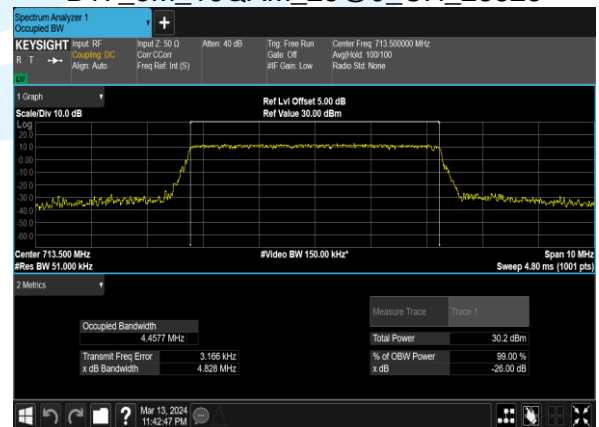
B17_5M_16QAM_25@0_CH_23790



B17_5M_QPSK_25@0_CH_23825



B17_5M_16QAM_25@0_CH_23825



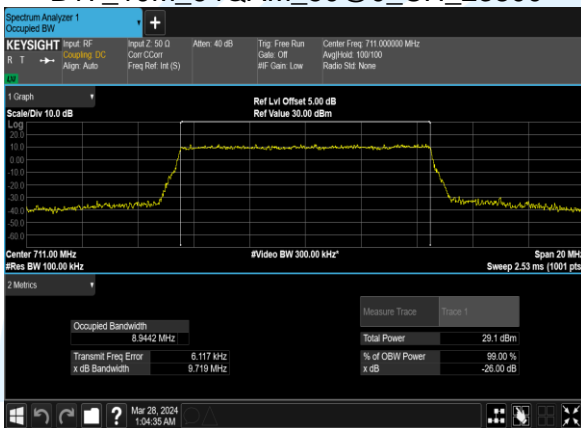
B17_10M_64QAM_50@0_CH_23780



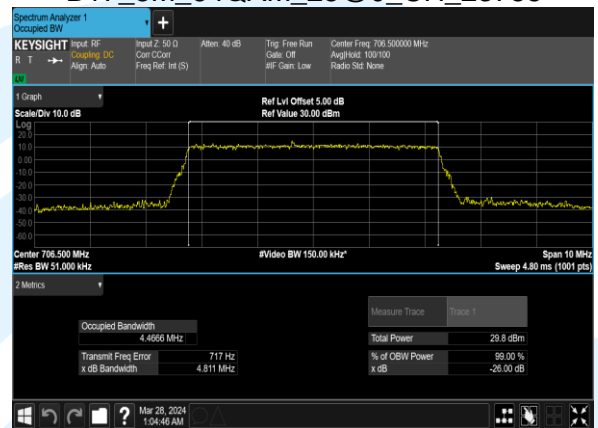
B17_10M_64QAM_50@0_CH_23790



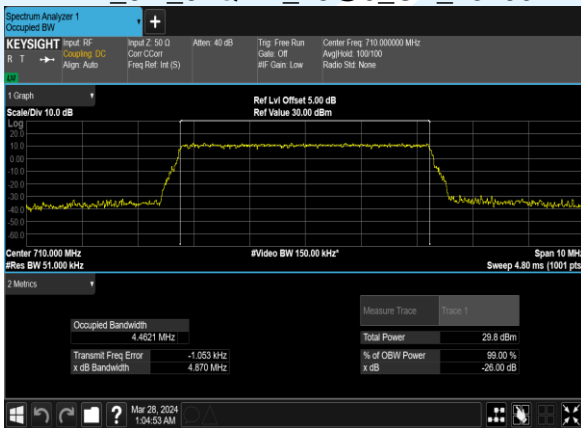
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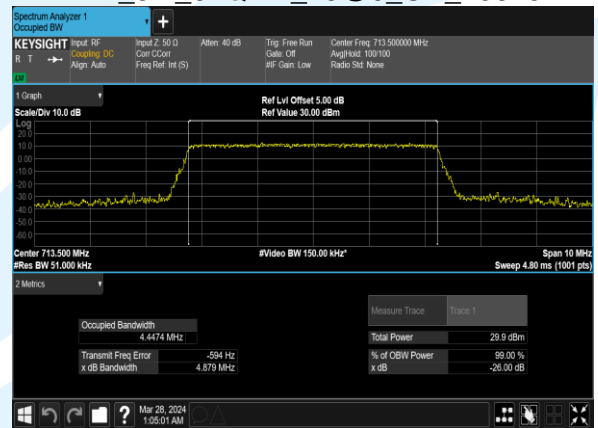
B17_5M_64QAM_25@0_CH_23755



B17_5M_64QAM_25@0_CH_23790



B17_5M_64QAM_25@0_CH_23825



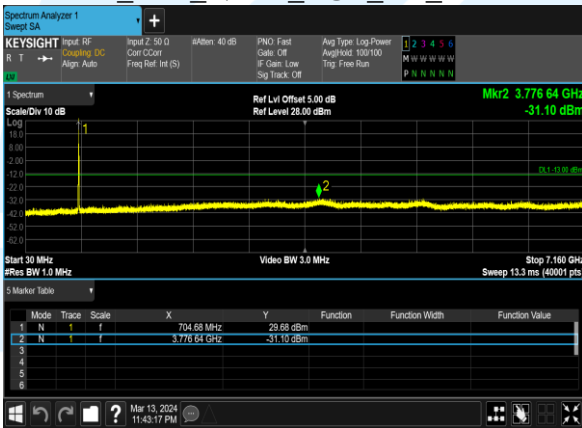
Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
17	10.0	23780	709.0	QPSK	1@0	-31.09	-13	PASS
17	10.0	23780	709.0	16QAM	1@0	-30.86	-13	PASS
17	10.0	23790	710.0	QPSK	1@0	-29.98	-13	PASS
17	10.0	23790	710.0	16QAM	1@0	-31.41	-13	PASS
17	10.0	23800	711.0	QPSK	1@0	-30.23	-13	PASS
17	10.0	23800	711.0	16QAM	1@0	-30.42	-13	PASS
17	5.0	23755	706.5	QPSK	1@0	-30.55	-13	PASS
17	5.0	23755	706.5	16QAM	1@0	-30.67	-13	PASS
17	5.0	23790	710.0	QPSK	1@0	-31.5	-13	PASS
17	5.0	23790	710.0	16QAM	1@0	-30.8	-13	PASS
17	5.0	23825	713.5	QPSK	1@0	-30.96	-13	PASS
17	5.0	23825	713.5	16QAM	1@0	-30.71	-13	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
17	10.0	23780	709.0	64QAM	1@0	-29.84	-13	PASS
17	10.0	23790	710.0	64QAM	1@0	-29.42	-13	PASS
17	10.0	23800	711.0	64QAM	1@0	-30.84	-13	PASS
17	5.0	23755	706.5	64QAM	1@0	-31.25	-13	PASS
17	5.0	23790	710.0	64QAM	1@0	-30.67	-13	PASS
17	5.0	23825	713.5	64QAM	1@0	-30.56	-13	PASS

Test Graphs

B17_10M_QPSK_1@0_CH_23780



B17_10M_16QAM_1@0_CH_23780



B17_10M_QPSK_1@0_CH_23790



B17_10M_16QAM_1@0_CH_23790

