

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	5.59	13	PASS
12	10.0	23060	704.0	16QAM	50@0	6.37	13	PASS
12	10.0	23095	707.5	QPSK	50@0	5.65	13	PASS
12	10.0	23095	707.5	16QAM	50@0	6.48	13	PASS
12	10.0	23130	711.0	QPSK	50@0	5.54	13	PASS
12	10.0	23130	711.0	16QAM	50@0	6.39	13	PASS
12	5.0	23035	701.5	QPSK	25@0	5.55	13	PASS
12	5.0	23035	701.5	16QAM	25@0	6.34	13	PASS
12	5.0	23095	707.5	QPSK	25@0	5.82	13	PASS
12	5.0	23095	707.5	16QAM	25@0	6.54	13	PASS
12	5.0	23155	713.5	QPSK	25@0	5.40	13	PASS
12	5.0	23155	713.5	16QAM	25@0	6.16	13	PASS
12	3.0	23025	700.5	QPSK	15@0	5.68	13	PASS
12	3.0	23025	700.5	16QAM	15@0	6.59	13	PASS
12	3.0	23095	707.5	QPSK	15@0	5.67	13	PASS
12	3.0	23095	707.5	16QAM	15@0	6.57	13	PASS
12	3.0	23165	714.5	QPSK	15@0	5.03	13	PASS
12	3.0	23165	714.5	16QAM	15@0	5.94	13	PASS
12	1.4	23017	699.7	QPSK	6@0	5.74	13	PASS
12	1.4	23017	699.7	16QAM	6@0	6.49	13	PASS
12	1.4	23095	707.5	QPSK	6@0	5.40	13	PASS
12	1.4	23095	707.5	16QAM	6@0	6.17	13	PASS
12	1.4	23173	715.3	QPSK	6@0	3.88	13	PASS
12	1.4	23173	715.3	16QAM	6@0	5.05	13	PASS

Test Graphs

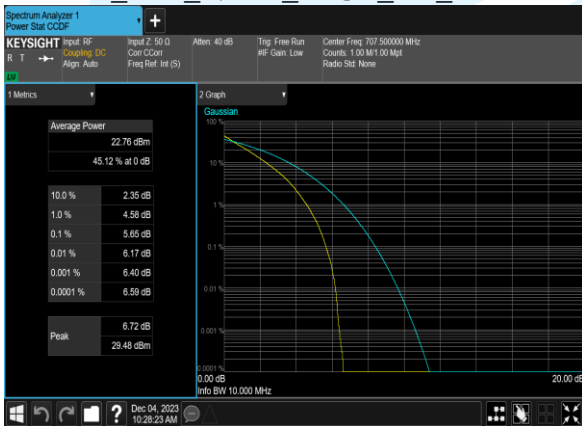
B12_10M_QPSK_50@0_CH_23060



B12_10M_16QAM_50@0_CH_23060



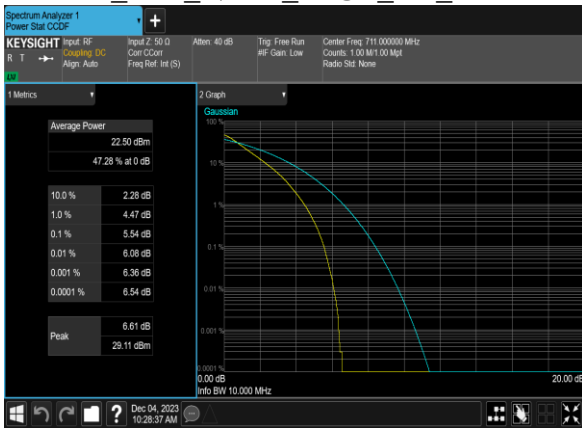
B12_10M_QPSK_50@0_CH_23095



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



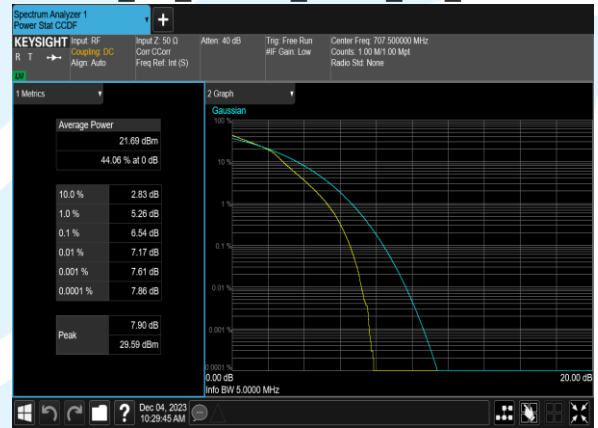
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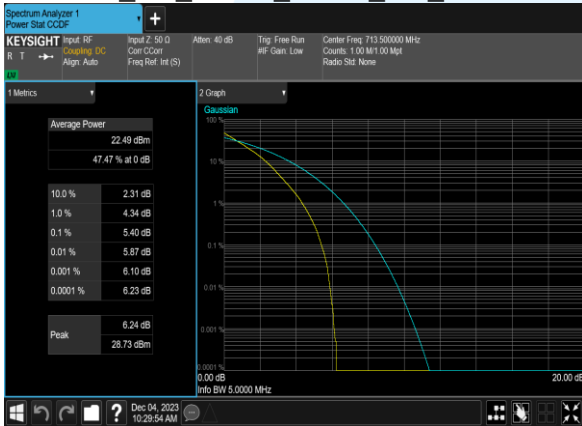
B12_5M_QPSK_25@0_CH_23095



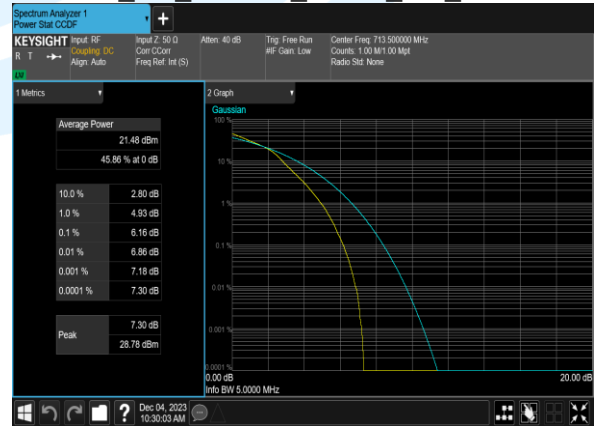
B12_5M_16QAM_25@0_CH_23095



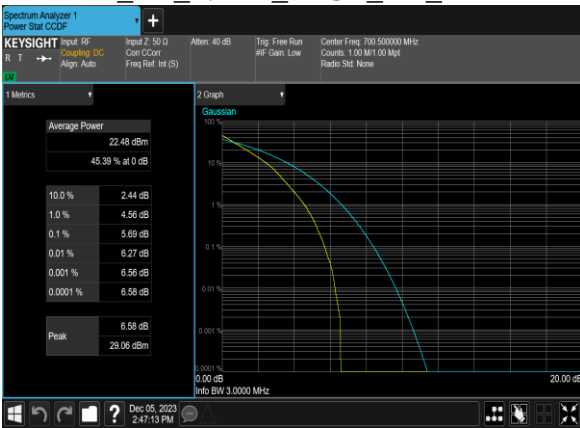
B12_5M_QPSK_25@0_CH_23155



B12_5M_16QAM_25@0_CH_23155



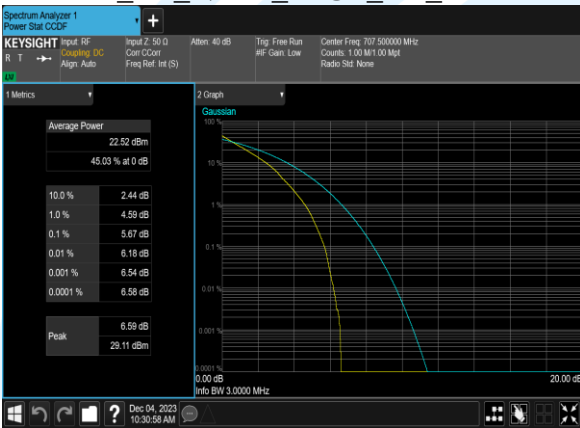
B12_3M_QPSK_15@0_CH_23025



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

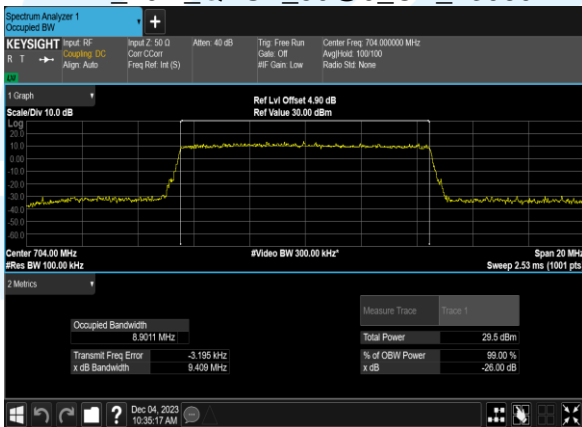


Occupied Bandwidth

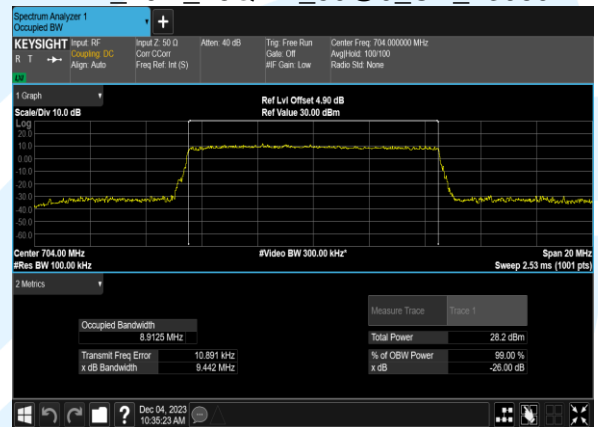
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
12	10.0	23060	704.0	QPSK	50@0	8.9011	9.409
12	10.0	23060	704.0	16QAM	50@0	8.9125	9.442
12	10.0	23095	707.5	QPSK	50@0	8.9437	9.499
12	10.0	23095	707.5	16QAM	50@0	8.9587	9.427
12	10.0	23130	711.0	QPSK	50@0	8.9258	9.438
12	10.0	23130	711.0	16QAM	50@0	8.9157	9.432
12	5.0	23035	701.5	QPSK	25@0	4.4547	4.801
12	5.0	23035	701.5	16QAM	25@0	4.4487	4.781
12	5.0	23095	707.5	QPSK	25@0	4.4720	4.792
12	5.0	23095	707.5	16QAM	25@0	4.4629	4.809
12	5.0	23155	713.5	QPSK	25@0	4.4622	4.771
12	5.0	23155	713.5	16QAM	25@0	4.4582	4.800
12	3.0	23025	700.5	QPSK	15@0	2.6697	2.872
12	3.0	23025	700.5	16QAM	15@0	2.6681	2.899
12	3.0	23095	707.5	QPSK	15@0	2.6709	2.877
12	3.0	23095	707.5	16QAM	15@0	2.6659	2.869
12	3.0	23165	714.5	QPSK	15@0	2.6679	2.880
12	3.0	23165	714.5	16QAM	15@0	2.6722	2.920
12	1.4	23017	699.7	QPSK	6@0	1.0794	1.216
12	1.4	23017	699.7	16QAM	6@0	1.0785	1.238
12	1.4	23095	707.5	QPSK	6@0	1.0796	1.236
12	1.4	23095	707.5	16QAM	6@0	1.0785	1.254
12	1.4	23173	715.3	QPSK	6@0	1.0899	2.020
12	1.4	23173	715.3	16QAM	6@0	1.0761	1.222

Test Graphs

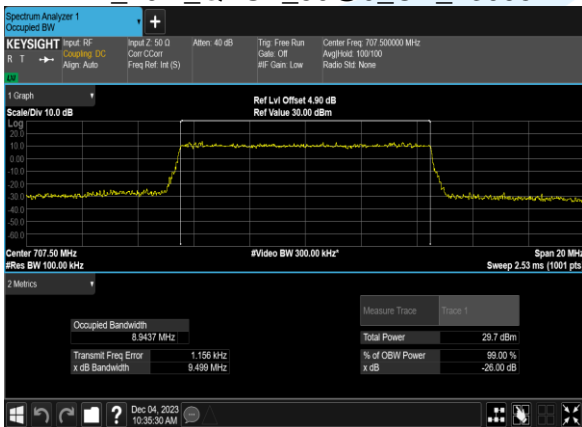
B12_10M_QPSK_50@0_CH_23060



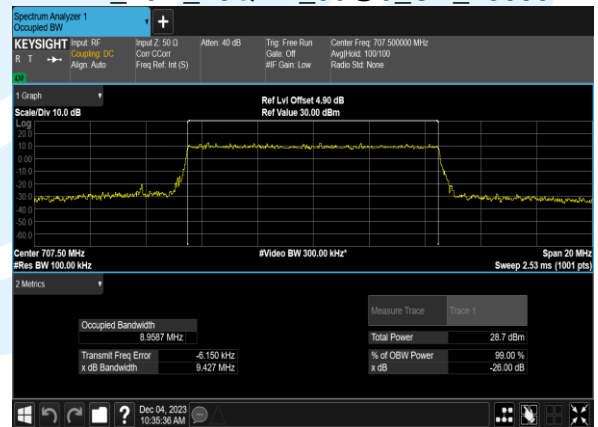
B12_10M_16QAM_50@0_CH_23060



B12_10M_QPSK_50@0_CH_23095



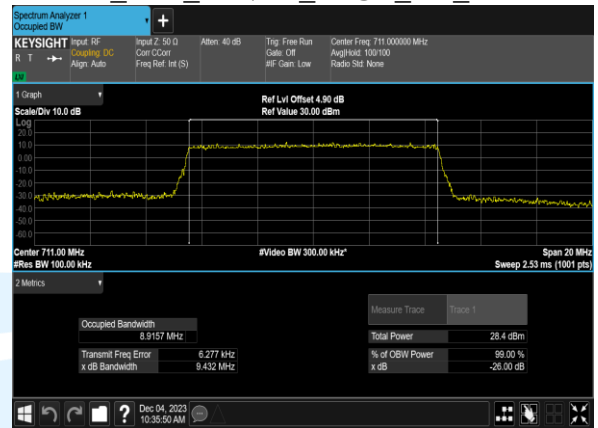
B12_10M_16QAM_50@0_CH_23095



B12_10M_QPSK_50@0_CH_23130



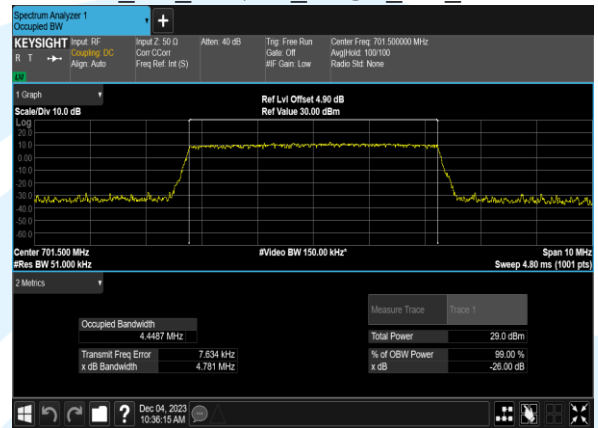
B12_10M_16QAM_50@0_CH_23130



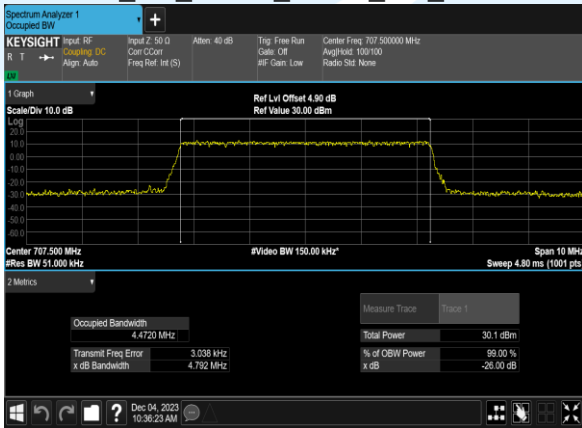
B12_5M_QPSK_25@0_CH_23035



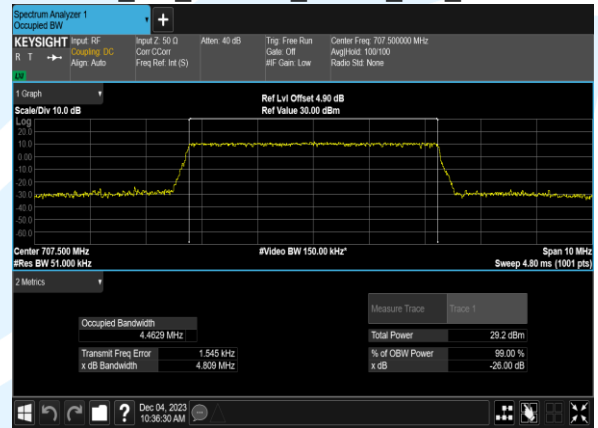
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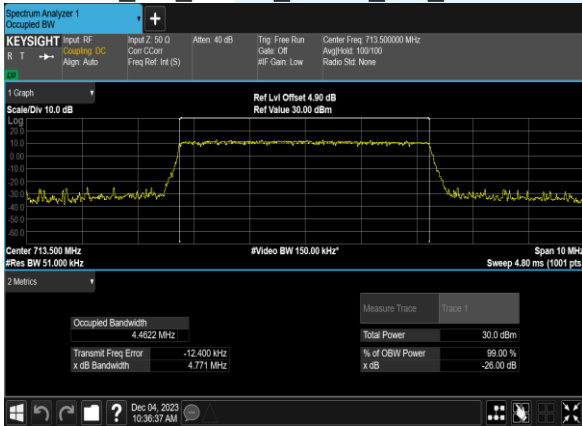
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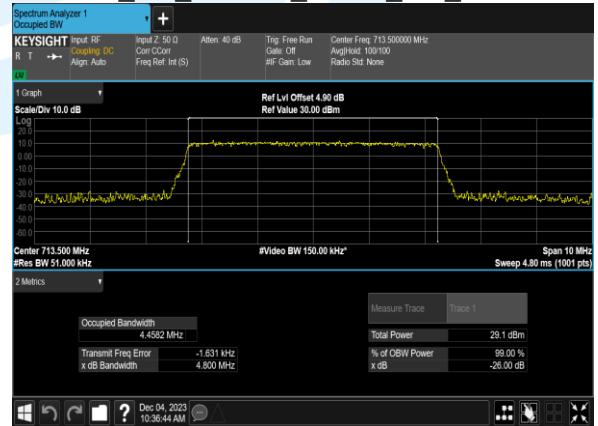
B12_5M_16QAM_25@0_CH_23095



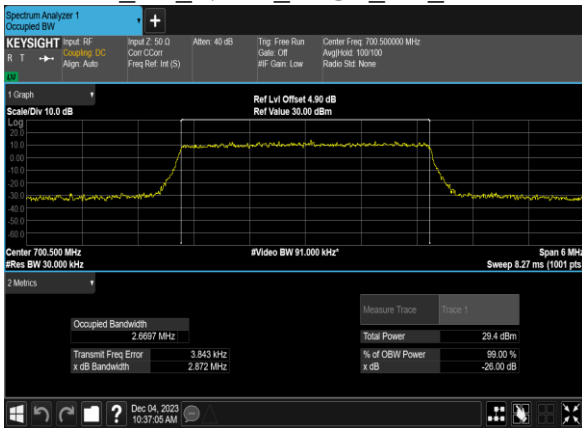
B12_5M_QPSK_25@0_CH_23155



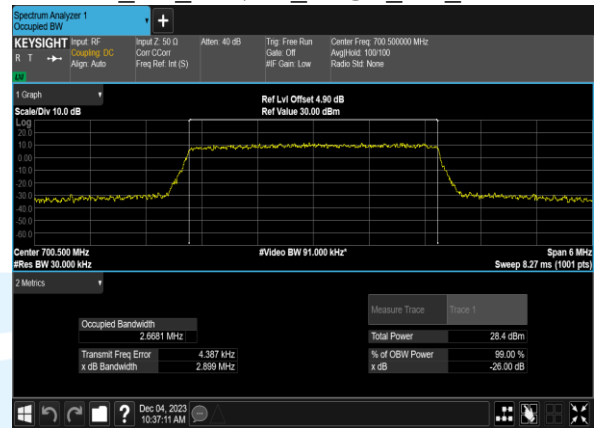
B12_5M_16QAM_25@0_CH_23155



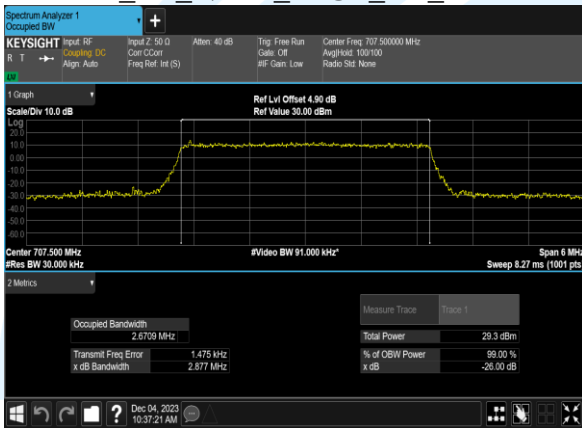
B12_3M_QPSK_15@0_CH_23025



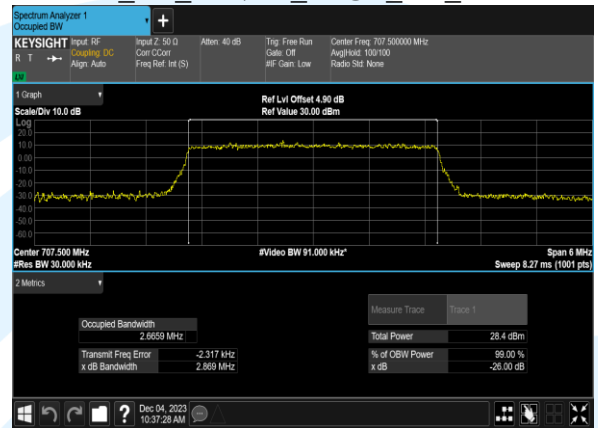
B12_3M_16QAM_15@0_CH_23025



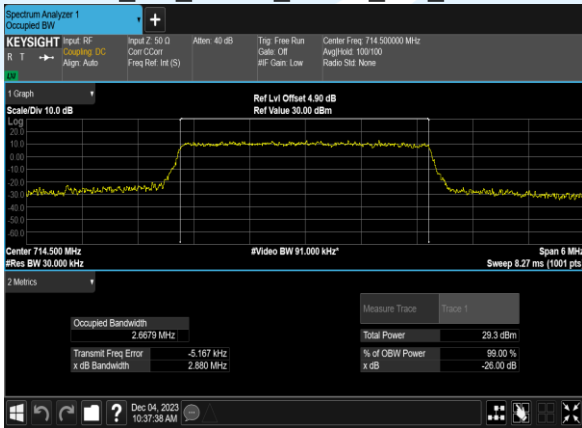
B12_3M_QPSK_15@0_CH_23095



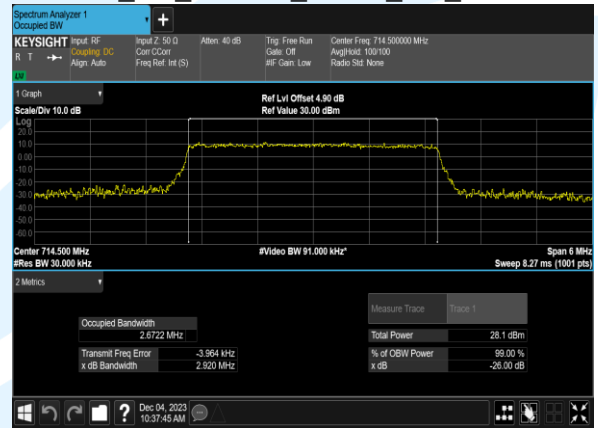
B12_3M_16QAM_15@0_CH_23095



B12_3M_QPSK_15@0_CH_23165



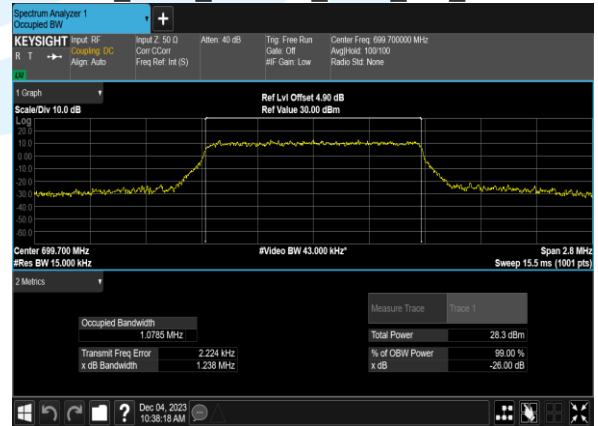
B12_3M_16QAM_15@0_CH_23165



B12_1.4M_QPSK_6@0_CH_23017



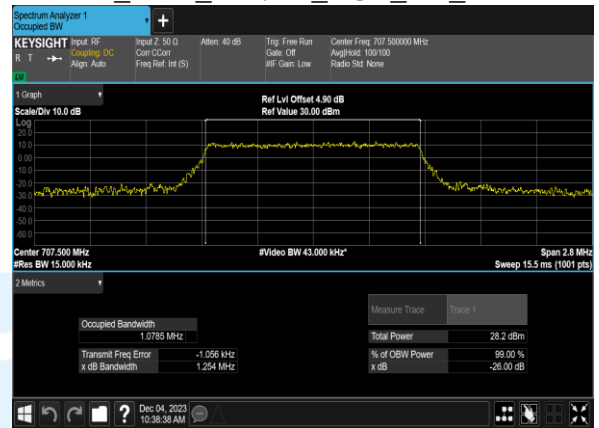
B12_1.4M_16QAM_6@0_CH_23017



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

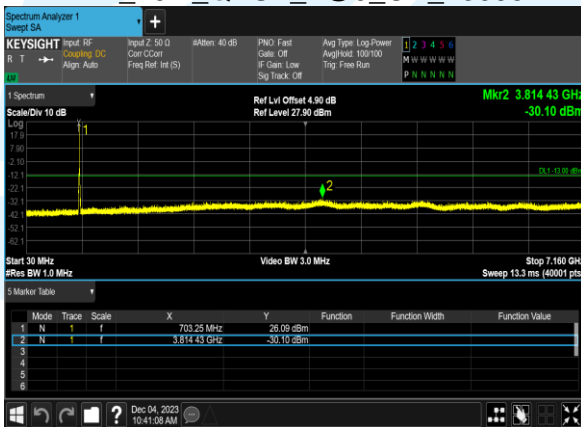


Conducted Spurious Emissions

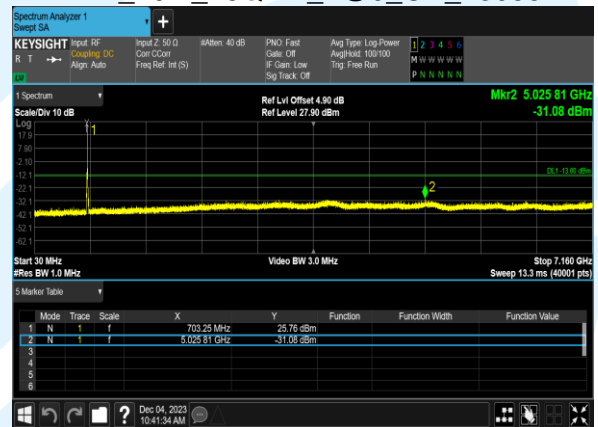
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
12	10.0	23095	707.5	QPSK	1@0	-30.1	-13	PASS
12	10.0	23095	707.5	16QAM	1@0	-31.08	-13	PASS
12	10.0	23130	711.0	QPSK	1@0	-31.12	-13	PASS
12	10.0	23130	711.0	16QAM	1@0	-31.18	-13	PASS
12	10.0	23060	704.0	QPSK	1@0	-31.4	-13	PASS
12	10.0	23060	704.0	16QAM	1@0	-30.82	-13	PASS
12	5.0	23095	707.5	QPSK	1@0	-30.73	-13	PASS
12	5.0	23095	707.5	16QAM	1@0	-30.96	-13	PASS
12	5.0	23155	713.5	QPSK	1@0	-31.21	-13	PASS
12	5.0	23155	713.5	16QAM	1@0	-30.67	-13	PASS
12	5.0	23035	701.5	QPSK	1@0	-31.25	-13	PASS
12	5.0	23035	701.5	16QAM	1@0	-30.85	-13	PASS
12	3.0	23095	707.5	QPSK	1@0	-30.45	-13	PASS
12	3.0	23095	707.5	16QAM	1@0	-30.93	-13	PASS
12	3.0	23165	714.5	QPSK	1@0	-31.03	-13	PASS
12	3.0	23165	714.5	16QAM	1@0	-31.14	-13	PASS
12	3.0	23025	700.5	QPSK	1@0	-31.22	-13	PASS
12	3.0	23025	700.5	16QAM	1@0	-30.89	-13	PASS
12	1.4	23095	707.5	QPSK	1@0	-30.64	-13	PASS
12	1.4	23095	707.5	16QAM	1@0	-30.95	-13	PASS
12	1.4	23173	715.3	QPSK	1@0	-30.57	-13	PASS
12	1.4	23173	715.3	16QAM	1@0	-30.75	-13	PASS
12	1.4	23017	699.7	QPSK	1@0	-30.36	-13	PASS
12	1.4	23017	699.7	16QAM	1@0	-29.87	-13	PASS

Test Graphs

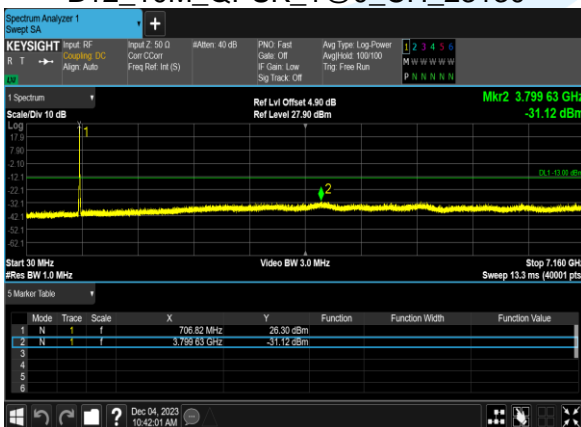
B12_10M_QPSK_1@0_CH_23095



B12_10M_16QAM_1@0_CH_23095



B12_10M_QPSK_1@0_CH_23130



B12_10M_16QAM_1@0_CH_23130



B12_5M_QPSK_1@0_CH_23095



B12_5M_16QAM_1@0_CH_23095



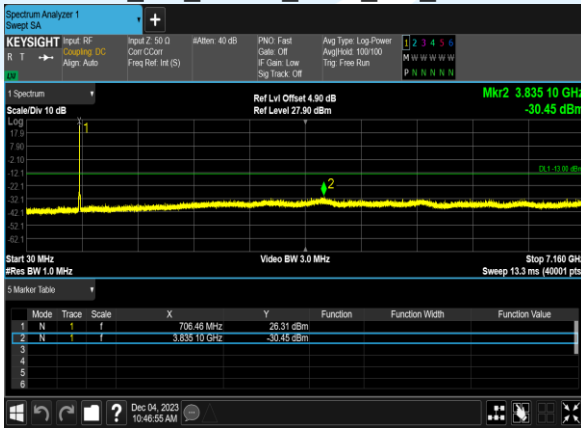
B12_5M_QPSK_1@0_CH_23155



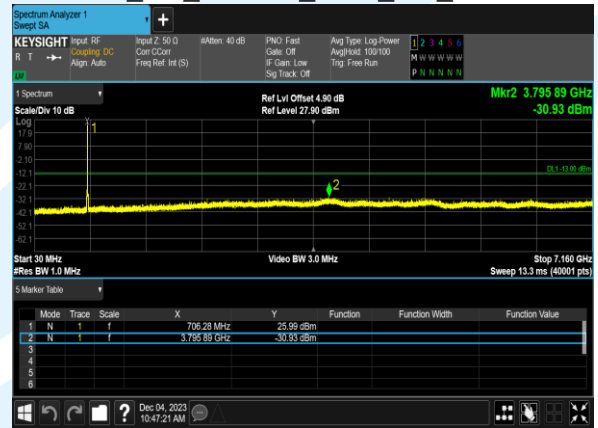
B12_5M_16QAM_1@0_CH_23155



B12_3M_QPSK_1@0_CH_23095



B12_3M_16QAM_1@0_CH_23095



B12_3M_QPSK_1@0_CH_23165



B12_3M_16QAM_1@0_CH_23165



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B12_1.4M_QPSK_1@0_CH_23095



B12_1.4M_16QAM_1@0_CH_23095



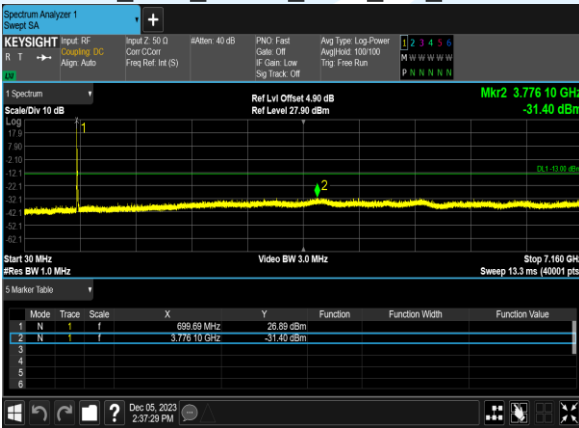
B12_1.4M_QPSK_1@0_CH_23173



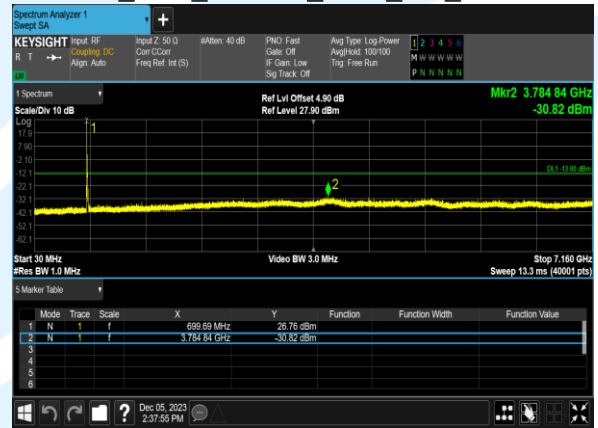
B12_1.4M_16QAM_1@0_CH_23173



B12_10M_QPSK_1@0_CH_23060



B12_10M_16QAM_1@0_CH_23060



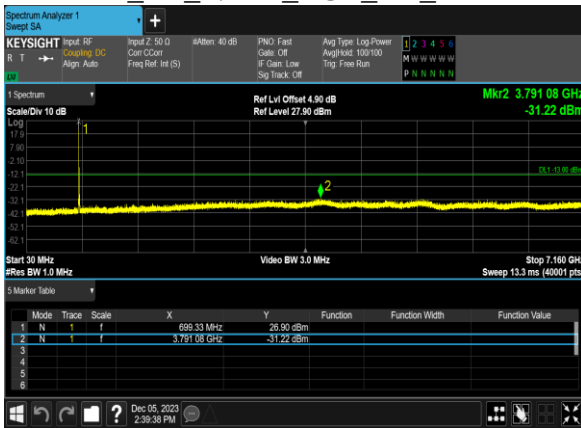
B12_5M_QPSK_1@0_CH_23035



B12_5M_16QAM_1@0_CH_23035



B12_3M_QPSK_1@0_CH_23025



B12_3M_16QAM_1@0_CH_23025



B12_1.4M_QPSK_1@0_CH_23017



B12_1.4M_16QAM_1@0_CH_23017

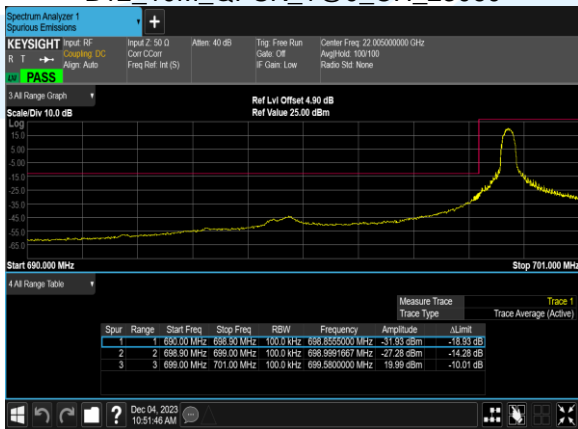


Conducted Band Edge

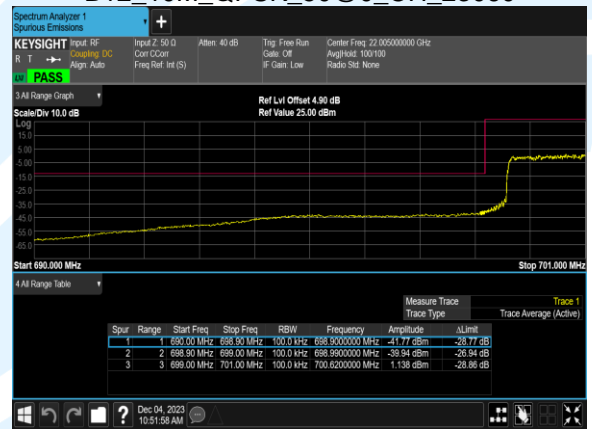
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
12	10.0	23060	704.0	QPSK	1@0	see graph	PASS
12	10.0	23060	704.0	QPSK	50@0	see graph	PASS
12	10.0	23060	704.0	16QAM	1@0	see graph	PASS
12	10.0	23060	704.0	16QAM	50@0	see graph	PASS
12	10.0	23130	711.0	QPSK	1@49	see graph	PASS
12	10.0	23130	711.0	QPSK	50@0	see graph	PASS
12	10.0	23130	711.0	16QAM	1@49	see graph	PASS
12	10.0	23130	711.0	16QAM	50@0	see graph	PASS
12	5.0	23035	701.5	QPSK	1@0	see graph	PASS
12	5.0	23035	701.5	QPSK	25@0	see graph	PASS
12	5.0	23035	701.5	16QAM	1@0	see graph	PASS
12	5.0	23035	701.5	16QAM	25@0	see graph	PASS
12	5.0	23155	713.5	QPSK	1@24	see graph	PASS
12	5.0	23155	713.5	QPSK	25@0	see graph	PASS
12	5.0	23155	713.5	16QAM	1@24	see graph	PASS
12	5.0	23155	713.5	16QAM	25@0	see graph	PASS
12	3.0	23025	700.5	QPSK	1@0	see graph	PASS
12	3.0	23025	700.5	QPSK	15@0	see graph	PASS
12	3.0	23025	700.5	16QAM	1@0	see graph	PASS
12	3.0	23025	700.5	16QAM	15@0	see graph	PASS
12	3.0	23165	714.5	QPSK	1@14	see graph	PASS
12	3.0	23165	714.5	QPSK	15@0	see graph	PASS
12	3.0	23165	714.5	16QAM	1@14	see graph	PASS
12	3.0	23165	714.5	16QAM	15@0	see graph	PASS
12	1.4	23017	699.7	QPSK	1@0	see graph	PASS
12	1.4	23017	699.7	QPSK	6@0	see graph	PASS
12	1.4	23017	699.7	16QAM	1@0	see graph	PASS
12	1.4	23017	699.7	16QAM	6@0	see graph	PASS
12	1.4	23173	715.3	QPSK	1@5	see graph	PASS
12	1.4	23173	715.3	QPSK	6@0	see graph	PASS
12	1.4	23173	715.3	16QAM	1@5	see graph	PASS
12	1.4	23173	715.3	16QAM	6@0	see graph	PASS

Test Graphs

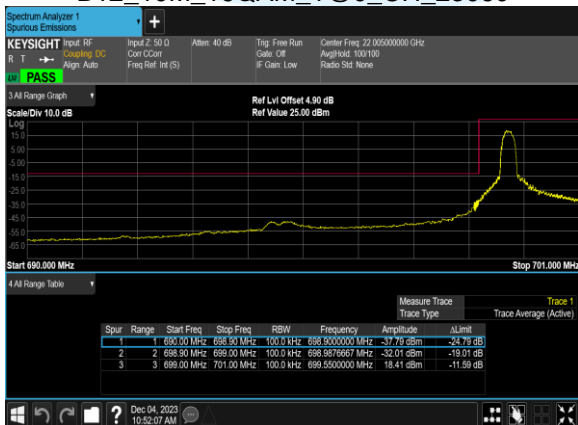
B12_10M_QPSK_1@0_CH_23060



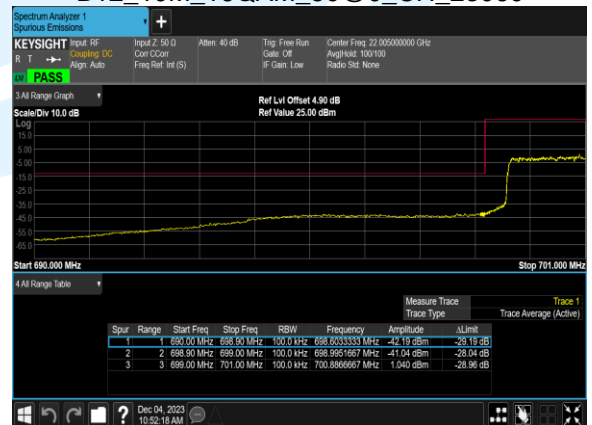
B12_10M_QPSK_50@0_CH_23060



B12_10M_16QAM_1@0_CH_23060



B12_10M_16QAM_50@0_CH_23060



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