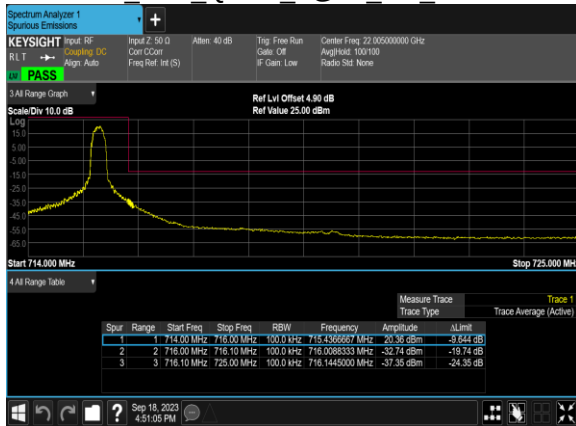


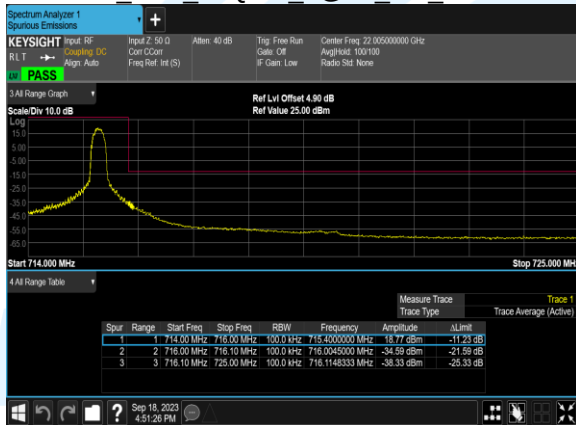
B12 10M QPSK 1@49 CH 23130



B12 10M QPSK 50@0 CH 23130



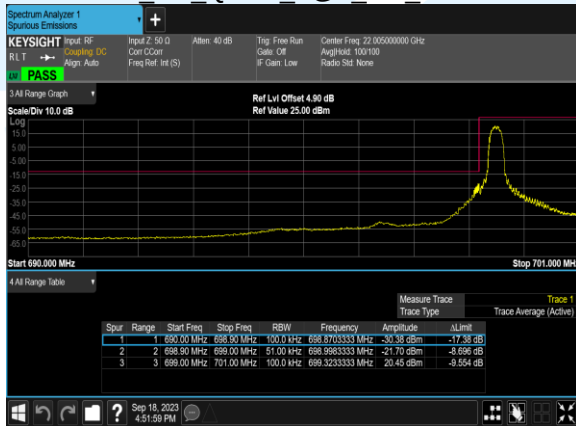
B12 10M 16QAM 1@49 CH 23130



B12 10M 16QAM 50@0 CH 23130



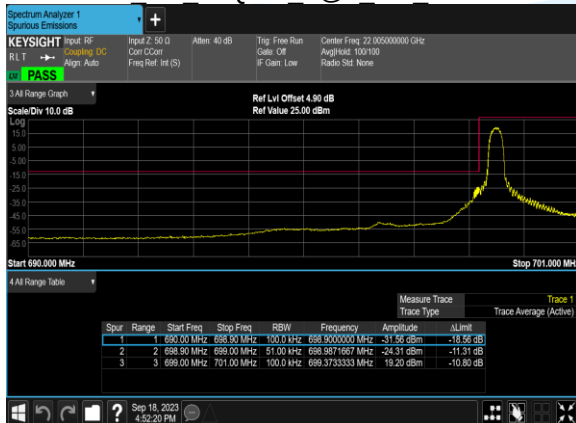
B12 5M QPSK 1@0 CH 23035



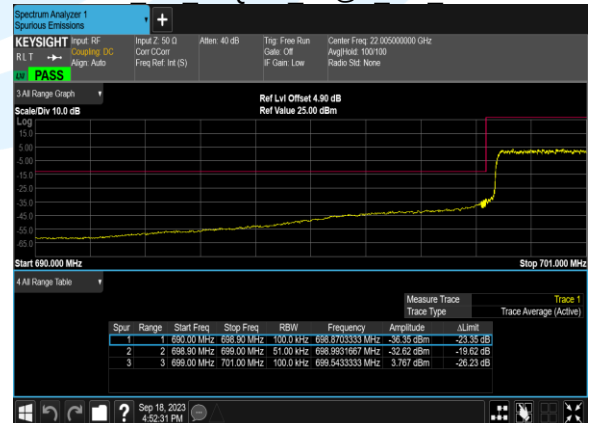
B12 5M QPSK 25@0 CH 23035



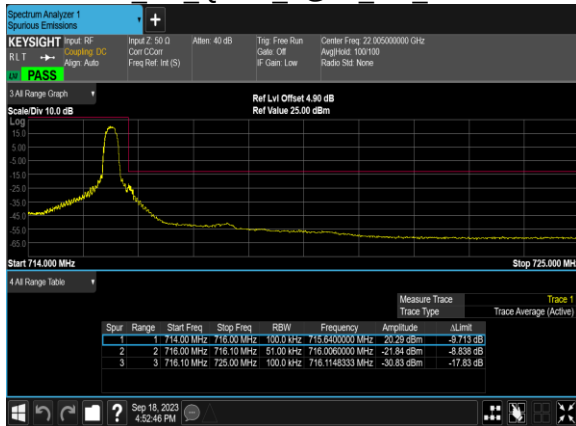
B12 5M 16QAM 1@0 CH 23035



B12 5M 16QAM 25@0 CH 23035



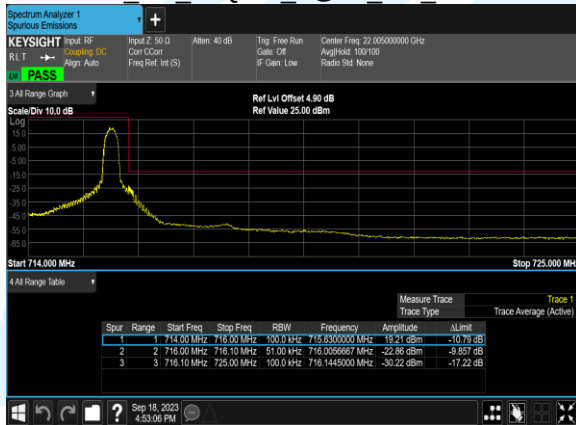
B12 5M QPSK 1@24 CH 23155



B12 5M QPSK 25@0 CH 23155



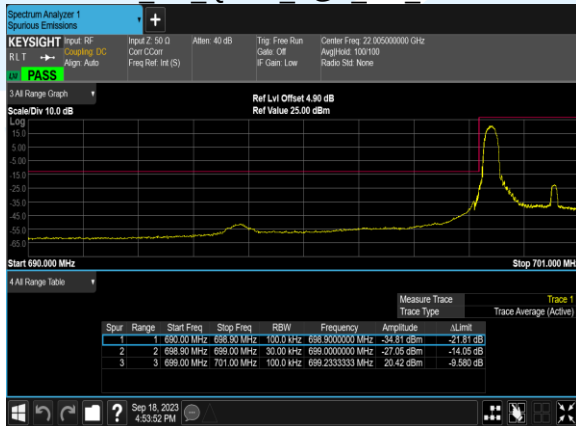
B12 5M 16QAM 1@24 CH 23155



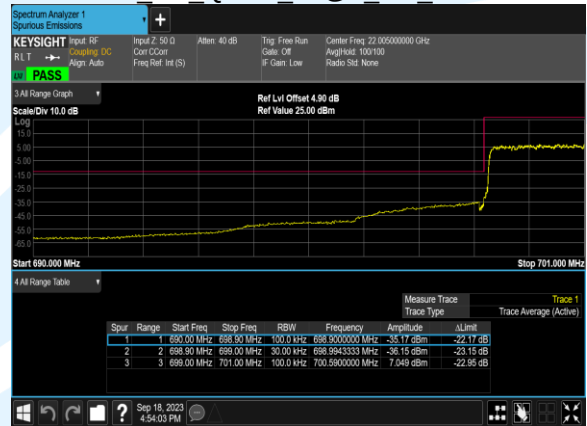
B12 5M 16QAM 25@0 CH 23155



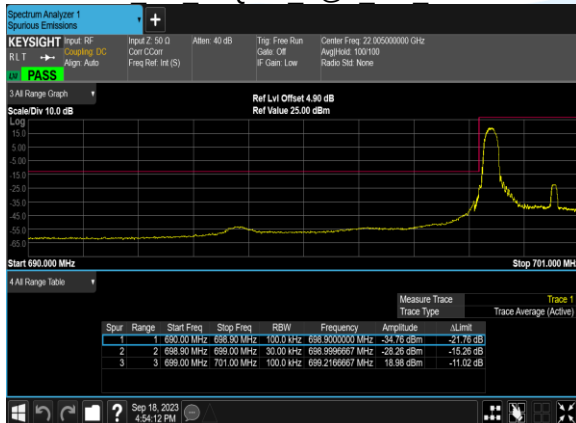
B12 3M QPSK 1@0 CH 23025



B12 3M QPSK 15@0 CH 23025



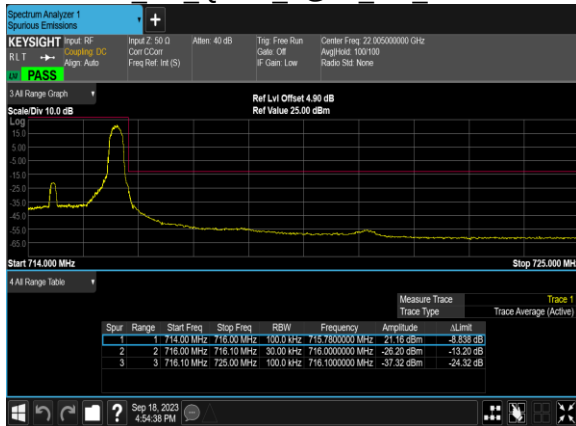
B12 3M 16QAM 1@0 CH 23025



B12 3M 16QAM 15@0 CH 23025



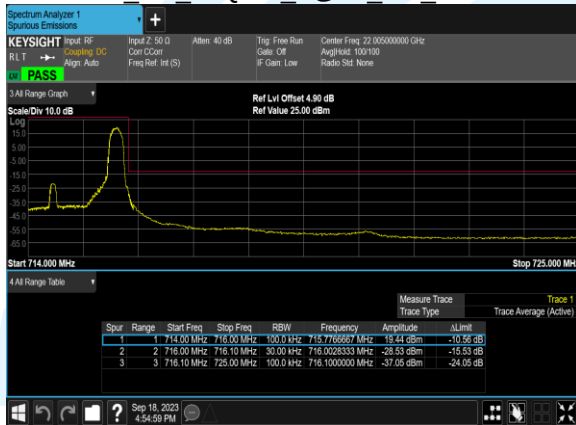
B12 3M QPSK 1@14 CH 23165



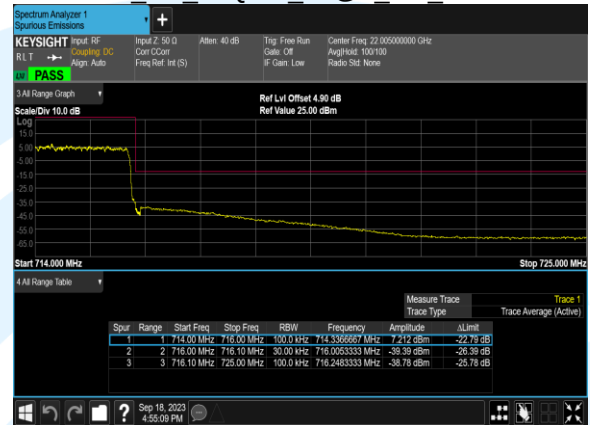
B12 3M QPSK 15@0 CH 23165



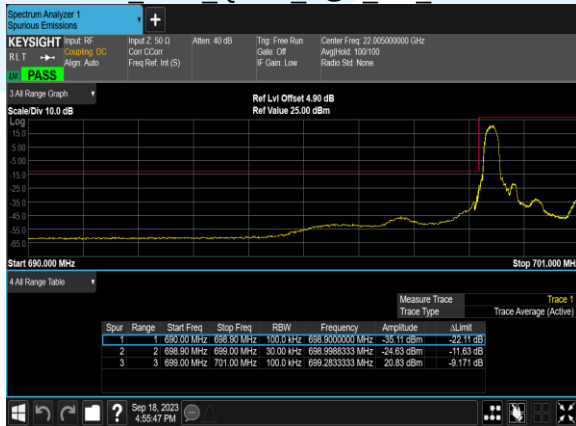
B12 3M 16QAM 1@14 CH 23165



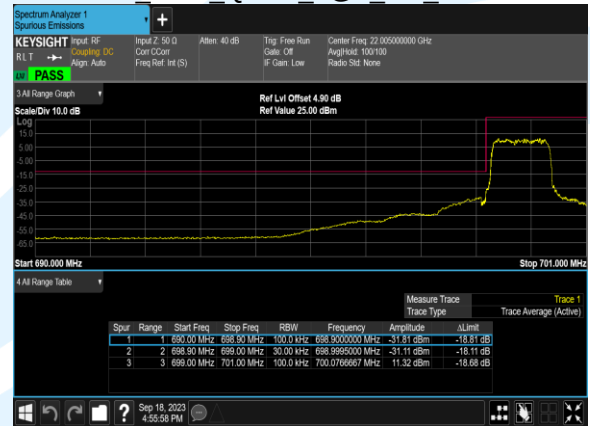
B12 3M 16QAM 15@0 CH 23165



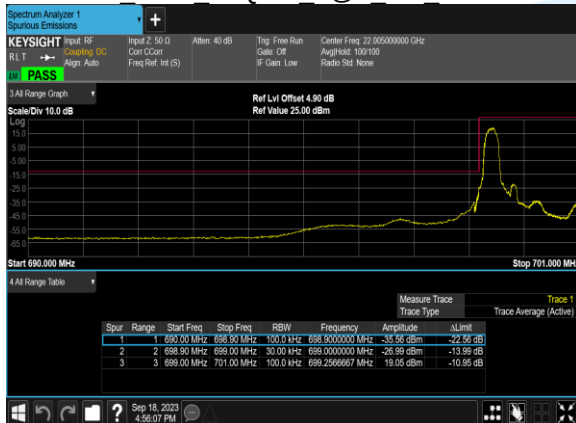
B12 1.4M QPSK 1@0 CH 23017



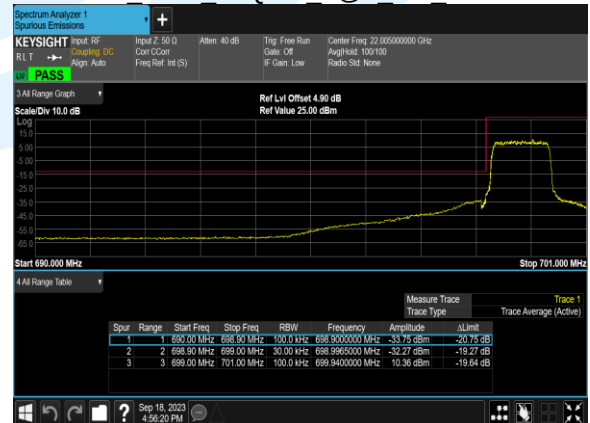
B12 1.4M QPSK 6@0 CH 23017



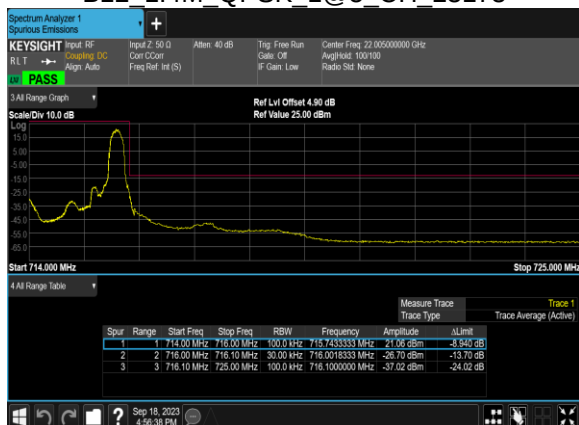
B12 1.4M 16QAM 1@0 CH 23017



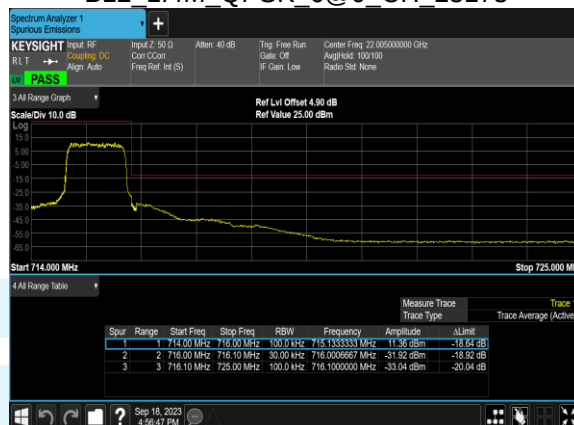
B12 1.4M 16QAM 6@0 CH 23017



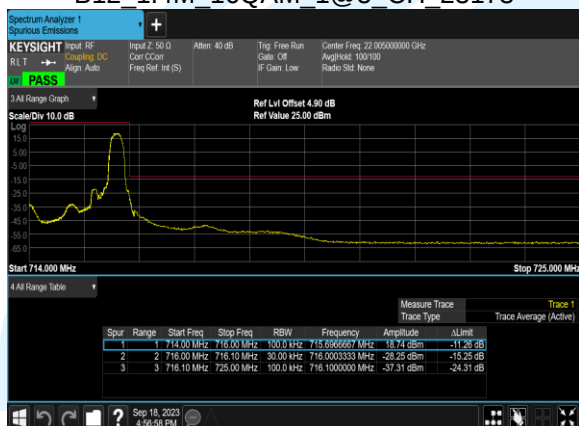
B12 1.4M QPSK 1@5 CH 23173



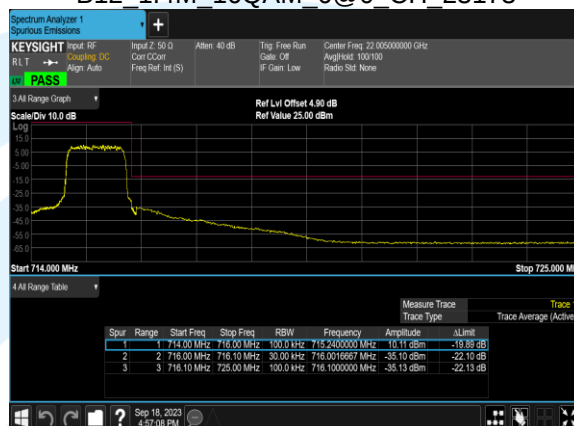
B12 1.4M QPSK 6@0 CH 23173



B12 1.4M 16QAM 1@5 CH 23173



B12 1.4M 16QAM 6@0 CH 23173



A.5 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	5.57	13	PASS
17	10.0	23780	709.0	16QAM	50@0	6.26	13	PASS
17	10.0	23790	710.0	QPSK	50@0	5.50	13	PASS
17	10.0	23790	710.0	16QAM	50@0	6.22	13	PASS
17	10.0	23800	711.0	QPSK	50@0	5.44	13	PASS
17	10.0	23800	711.0	16QAM	50@0	6.19	13	PASS
17	5.0	23755	706.5	QPSK	25@0	5.63	13	PASS
17	5.0	23755	706.5	16QAM	25@0	6.22	13	PASS
17	5.0	23790	710.0	QPSK	25@0	5.57	13	PASS
17	5.0	23790	710.0	16QAM	25@0	6.20	13	PASS
17	5.0	23825	713.5	QPSK	25@0	5.44	13	PASS
17	5.0	23825	713.5	16QAM	25@0	6.12	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



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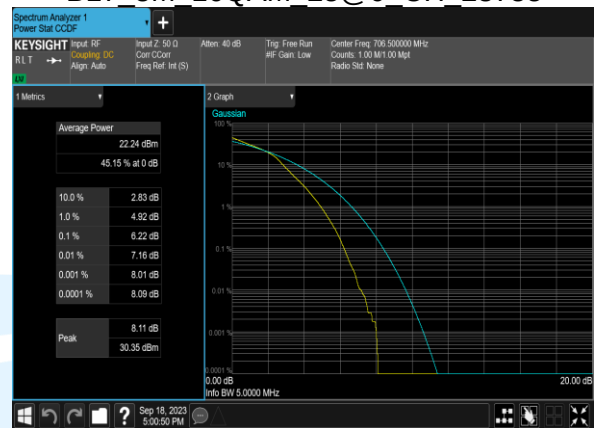
<http://www.uttlab.com>

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B17 5M QPSK 25@0 CH 23755



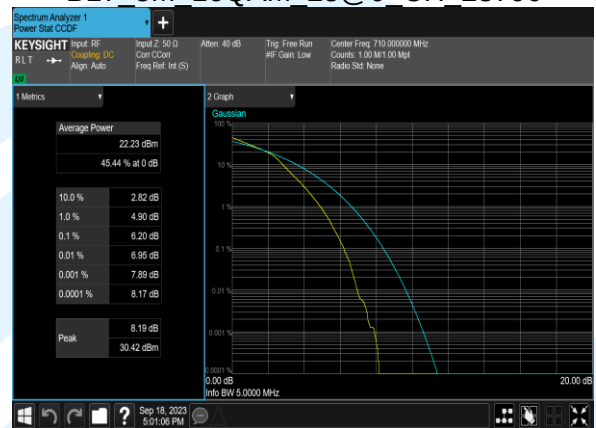
B17 5M 16QAM 25@0 CH 23755



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

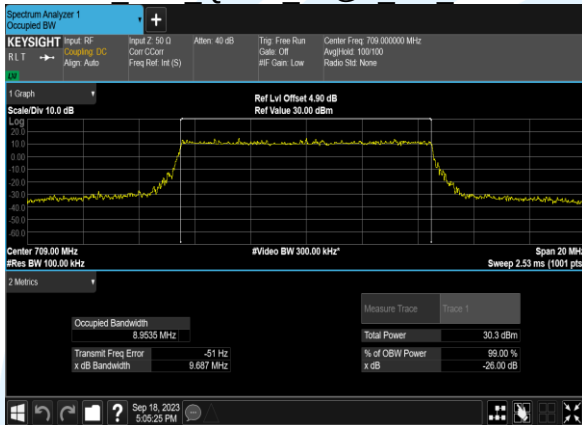


Occupied Bandwidth

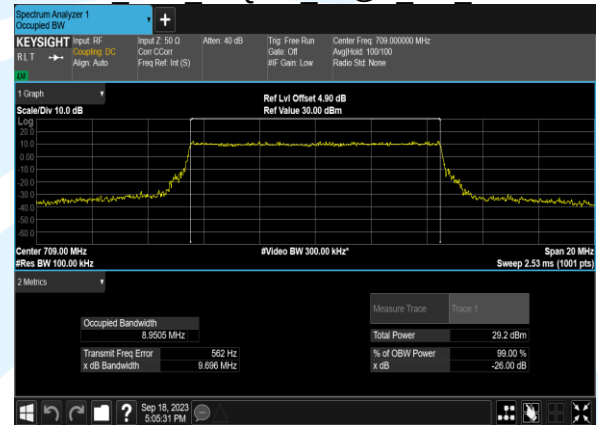
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
17	10.0	23780	709.0	QPSK	50@0	8.9535	9.687
17	10.0	23780	709.0	16QAM	50@0	8.9505	9.696
17	10.0	23790	710.0	QPSK	50@0	8.9509	9.800
17	10.0	23790	710.0	16QAM	50@0	8.9455	9.619
17	10.0	23800	711.0	QPSK	50@0	8.9484	9.758
17	10.0	23800	711.0	16QAM	50@0	8.9150	9.669
17	5.0	23755	706.5	QPSK	25@0	4.4620	4.969
17	5.0	23755	706.5	16QAM	25@0	4.4696	4.996
17	5.0	23790	710.0	QPSK	25@0	4.4668	5.000
17	5.0	23790	710.0	16QAM	25@0	4.4658	4.983
17	5.0	23825	713.5	QPSK	25@0	4.4603	4.910
17	5.0	23825	713.5	16QAM	25@0	4.4751	4.918

Test Graphs

B17_10M_QPSK_50@0_CH_23780



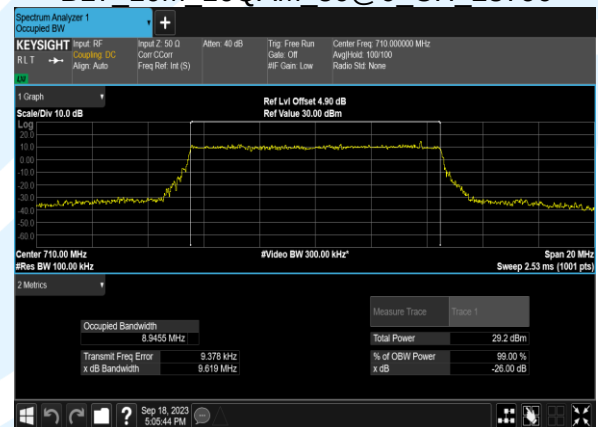
B17_10M_16QAM_50@0_CH_23780



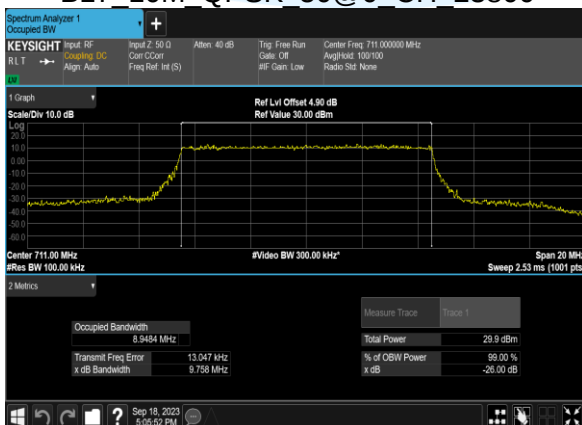
B17_10M_QPSK_50@0_CH_23790



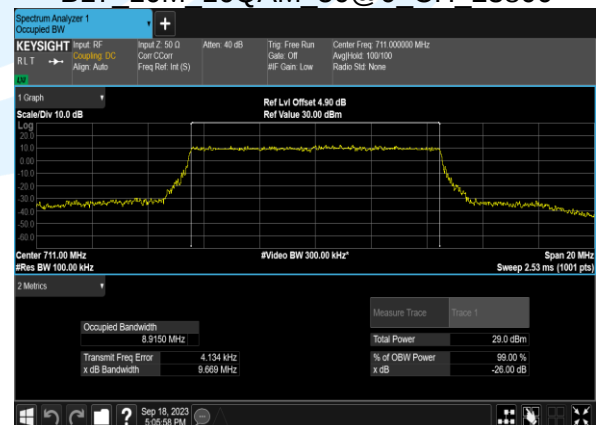
B17_10M_16QAM_50@0_CH_23790



B17_10M_QPSK_50@0_CH_23800



B17_10M_16QAM_50@0_CH_23800



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B17 5M QPSK 25@0 CH 23755



B17 5M 16QAM 25@0 CH 23755



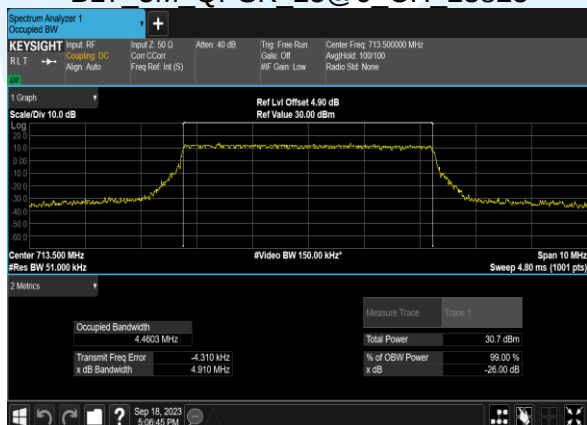
B17 5M QPSK 25@0 CH 23790



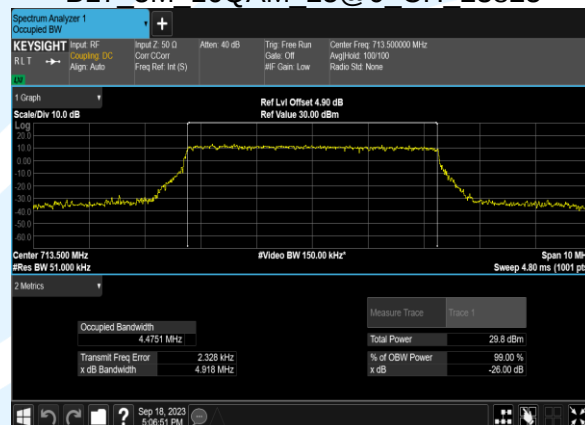
B17 5M 16QAM 25@0 CH 23790



B17 5M QPSK 25@0 CH 23825



B17 5M 16QAM 25@0 CH 23825



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	-31.03	-13	PASS
17	10.0	23780	709.0	16QAM	1@0	-30.36	-13	PASS
17	10.0	23790	710.0	QPSK	1@0	-30.13	-13	PASS
17	10.0	23790	710.0	16QAM	1@0	-30.91	-13	PASS
17	10.0	23800	711.0	QPSK	1@0	-30.85	-13	PASS
17	10.0	23800	711.0	16QAM	1@0	-31.08	-13	PASS
17	5.0	23755	706.5	QPSK	1@0	-31.13	-13	PASS
17	5.0	23755	706.5	16QAM	1@0	-30.5	-13	PASS
17	5.0	23790	710.0	QPSK	1@0	-30.6	-13	PASS
17	5.0	23790	710.0	16QAM	1@0	-29.73	-13	PASS
17	5.0	23825	713.5	QPSK	1@0	-30.89	-13	PASS
17	5.0	23825	713.5	16QAM	1@0	-31.36	-13	PASS

Test Graphs

B17 10M QPSK 1@0 CH 23780



B17 10M 16QAM 1@0 CH 23780



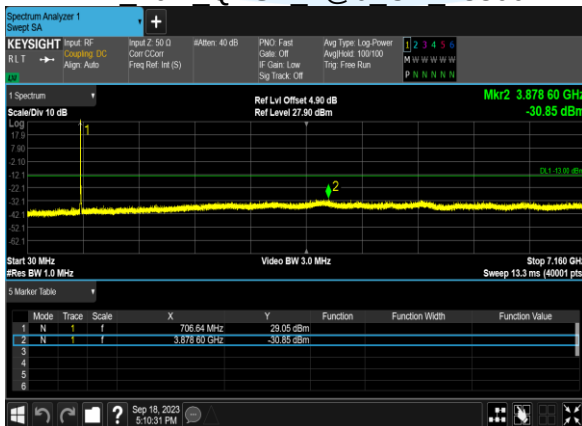
B17 10M QPSK 1@0 CH 23790



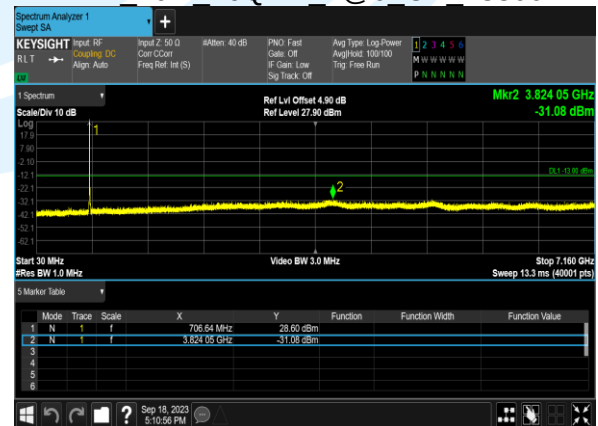
B17 10M 16QAM 1@0 CH 23790



B17 10M QPSK 1@0 CH 23800



B17 10M 16QAM 1@0 CH 23800



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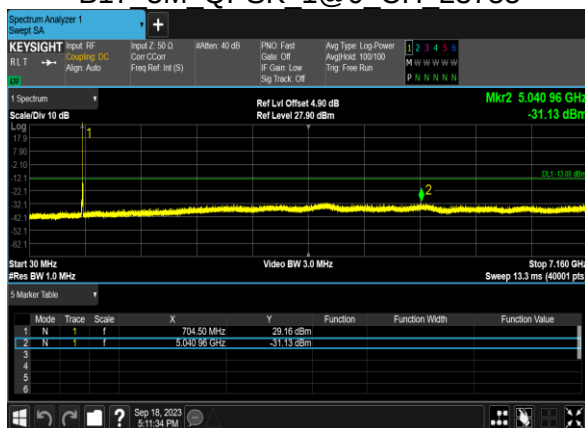
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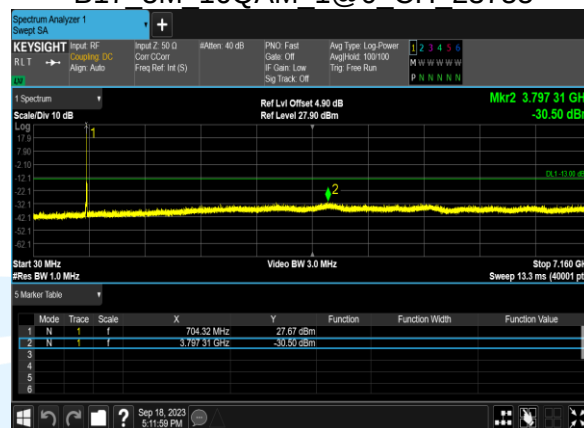
<http://www.uttlab.com>

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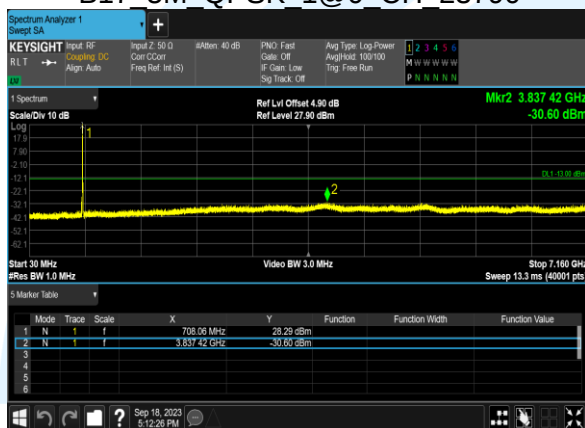
B17 5M QPSK 1@0 CH 23755



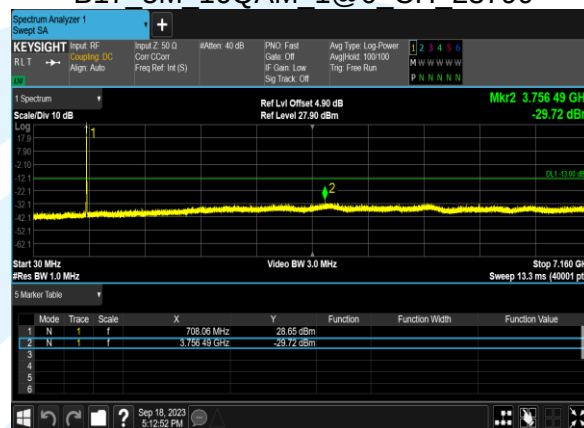
B17 5M 16QAM 1@0 CH 23755



B17 5M QPSK 1@0 CH 23790



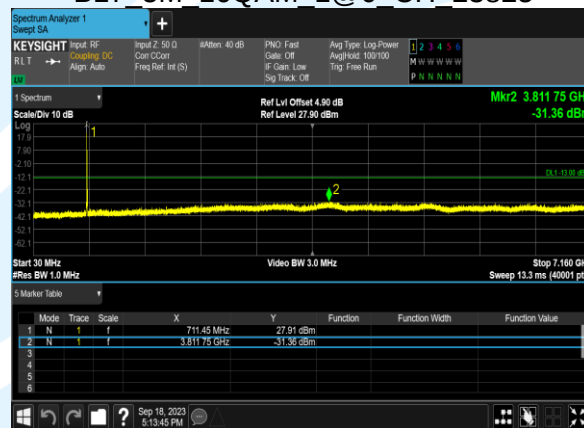
B17 5M 16QAM 1@0 CH 23790



B17 5M QPSK 1@0 CH 23825



B17 5M 16QAM 1@0 CH 23825

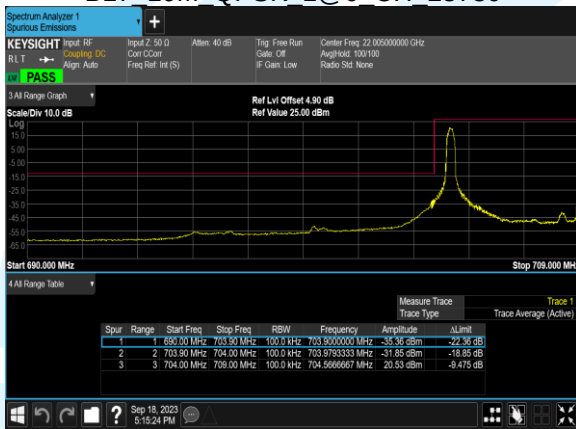


Conducted Band Edge

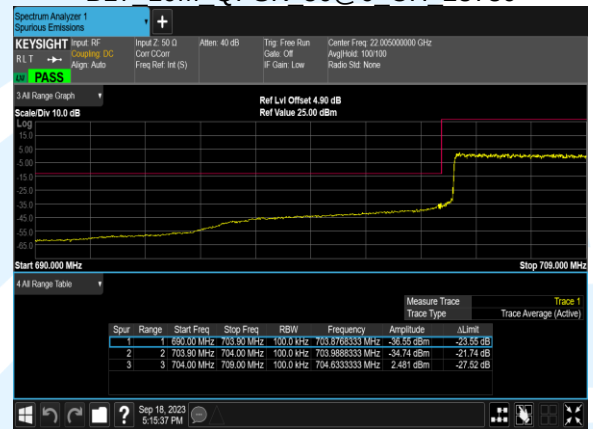
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
17	10.0	23780	709.0	QPSK	1@0	see graph	PASS
17	10.0	23780	709.0	QPSK	50@0	see graph	PASS
17	10.0	23780	709.0	16QAM	1@0	see graph	PASS
17	10.0	23780	709.0	16QAM	50@0	see graph	PASS
17	10.0	23800	711.0	QPSK	1@49	see graph	PASS
17	10.0	23800	711.0	QPSK	50@0	see graph	PASS
17	10.0	23800	711.0	16QAM	1@49	see graph	PASS
17	10.0	23800	711.0	16QAM	50@0	see graph	PASS
17	5.0	23755	706.5	QPSK	1@0	see graph	PASS
17	5.0	23755	706.5	QPSK	25@0	see graph	PASS
17	5.0	23755	706.5	16QAM	1@0	see graph	PASS
17	5.0	23755	706.5	16QAM	25@0	see graph	PASS
17	5.0	23825	713.5	QPSK	1@24	see graph	PASS
17	5.0	23825	713.5	QPSK	25@0	see graph	PASS
17	5.0	23825	713.5	16QAM	1@24	see graph	PASS
17	5.0	23825	713.5	16QAM	25@0	see graph	PASS

Test Graphs

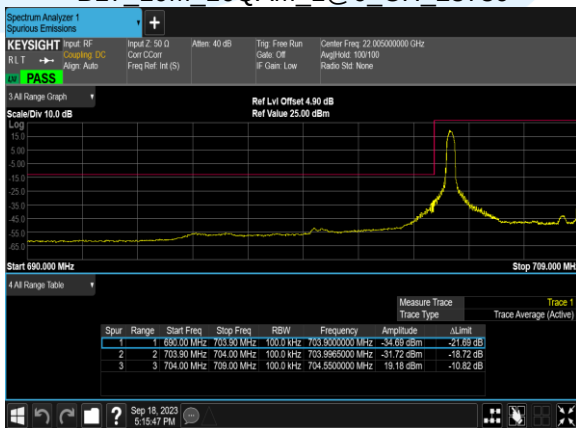
B17 10M QPSK 1@0 CH 23780



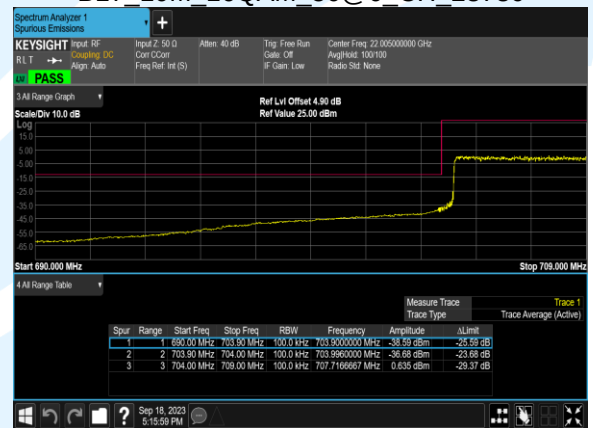
B17 10M QPSK 50@0 CH 23780



B17 10M 16QAM 1@0 CH 23780



B17 10M 16QAM 50@0 CH 23780



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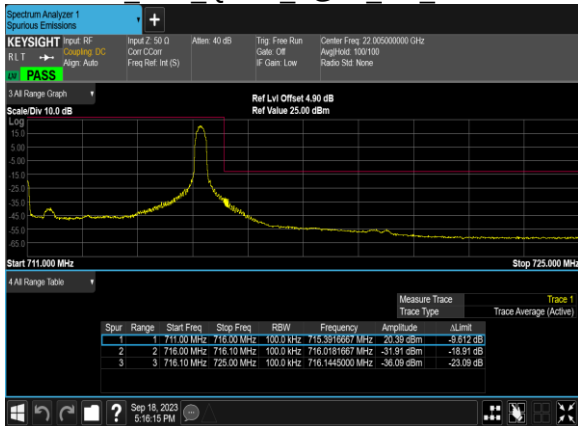
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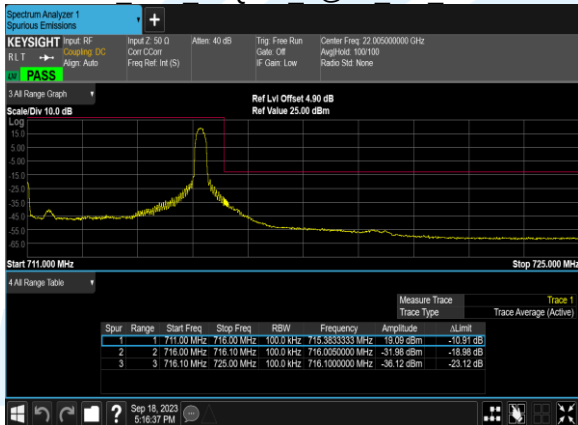
B17 10M QPSK 1@49 CH 23800



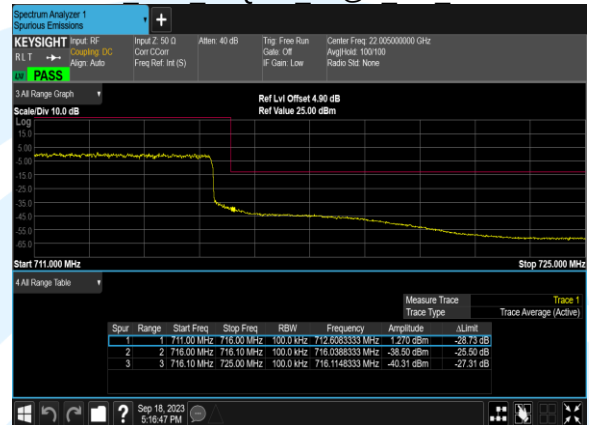
B17 10M QPSK 50@0 CH 23800



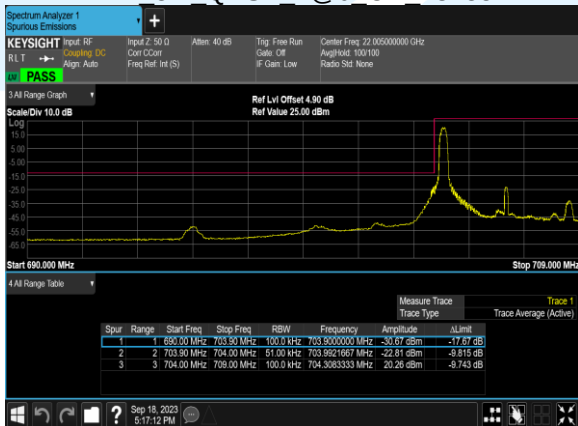
B17 10M 16QAM 1@49 CH 23800



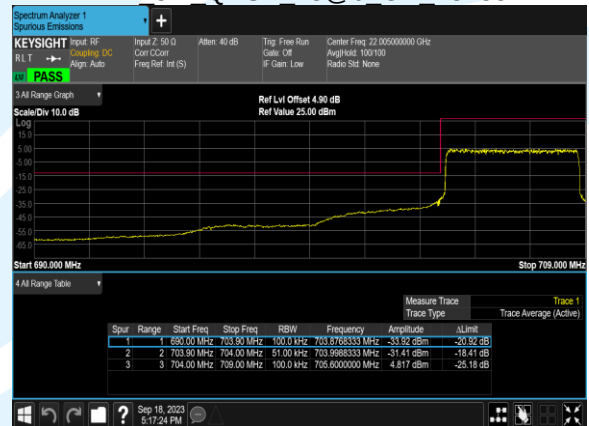
B17 10M 16QAM 50@0 CH 23800



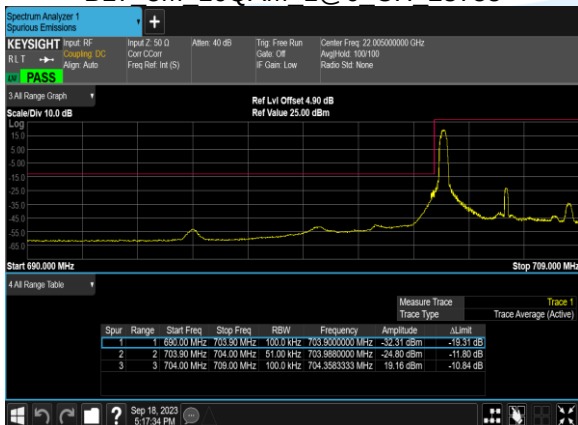
B17 5M QPSK 1@0 CH 23755



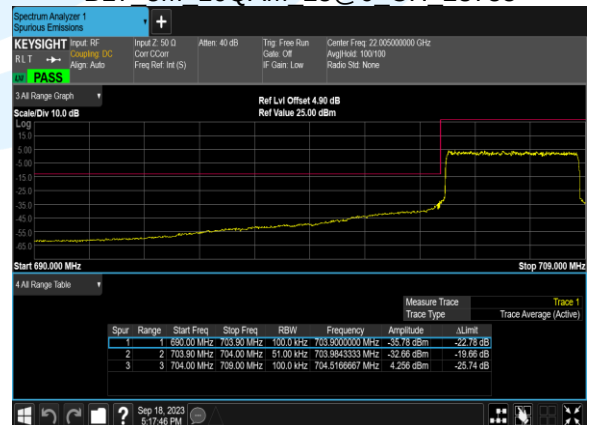
B17 5M QPSK 25@0 CH 23755



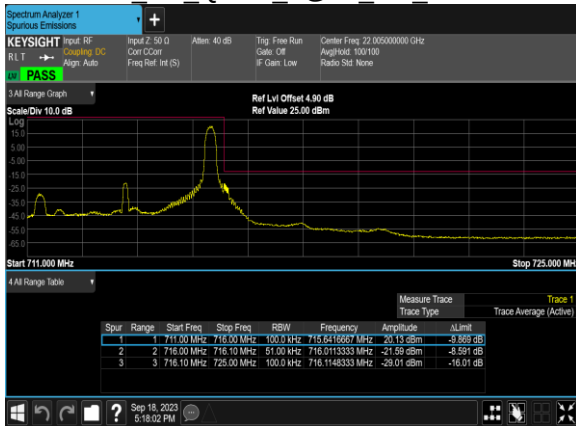
B17 5M 16QAM 1@0 CH 23755



B17 5M 16QAM 25@0 CH 23755



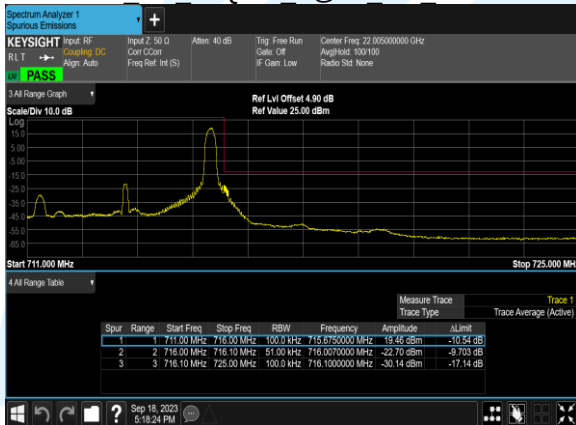
B17 5M QPSK 1@24 CH 23825



B17 5M QPSK 25@0 CH 23825



B17 5M 16QAM 1@24 CH 23825



B17 5M 16QAM 25@0 CH 23825

