

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Gain(dBi)	E(I)RP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.4	3.26	24.51	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.62	3.26	24.73	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.7	3.26	24.81	34.8	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.52	3.26	23.63	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.44	3.26	24.55	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.65	3.26	24.76	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.5	3.26	24.61	34.8	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.52	3.26	23.63	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.35	3.26	24.46	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.43	3.26	24.54	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.32	3.26	24.43	34.8	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.5	3.26	23.61	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.29	3.26	23.4	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.47	3.26	24.58	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.76	3.26	23.87	34.8	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.58	3.26	22.69	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.69	3.26	23.8	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.41	3.26	23.52	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.45	3.26	23.56	34.8	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.45	3.26	22.56	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.25	3.26	23.36	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.18	3.26	24.29	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.77	3.26	23.88	34.8	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.34	3.26	22.45	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.5	3.26	24.61	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.42	3.26	24.53	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.29	3.26	24.4	34.8	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.43	3.26	23.54	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.58	3.26	24.69	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.4	3.26	24.51	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.44	3.26	24.55	34.8	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.49	3.26	23.6	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.5	3.26	24.61	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.4	3.26	24.51	34.8	PASS

Band12	3MHz	QPSK	23165	1RB#14	23.8	3.26	24.91	34.8	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.46	3.26	23.57	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.11	3.26	23.22	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.98	3.26	24.09	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.18	3.26	23.29	34.8	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.56	3.26	22.67	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.45	3.26	23.56	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.46	3.26	24.57	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.29	3.26	23.4	34.8	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.43	3.26	22.54	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.55	3.26	23.66	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.38	3.26	23.49	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.62	3.26	23.73	34.8	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.42	3.26	22.53	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.58	3.26	24.69	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.41	3.26	24.52	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.48	3.26	24.59	34.8	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.36	3.26	23.47	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.38	3.26	24.49	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.93	3.26	25.04	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.47	3.26	24.58	34.8	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.39	3.26	23.5	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.42	3.26	24.53	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.42	3.26	24.53	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.65	3.26	24.76	34.8	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.51	3.26	23.62	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.16	3.26	23.27	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.26	3.26	23.37	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.16	3.26	23.27	34.8	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.57	3.26	22.68	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.36	3.26	23.47	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.06	3.26	24.17	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.28	3.26	23.39	34.8	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.37	3.26	22.48	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.42	3.26	23.53	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.27	3.26	23.38	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.1	3.26	24.21	34.8	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.57	3.26	22.68	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.07	3.26	24.18	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.55	3.26	24.66	34.8	PASS

Band12	10MHz	QPSK	23060	1RB#49	23.15	3.26	24.26	34.8	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.46	3.26	23.57	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.36	3.26	24.47	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.85	3.26	24.96	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.25	3.26	24.36	34.8	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.44	3.26	23.55	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.36	3.26	24.47	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.59	3.26	24.7	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.47	3.26	24.58	34.8	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.43	3.26	23.54	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.94	3.26	23.05	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.81	3.26	23.92	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.21	3.26	23.32	34.8	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.56	3.26	22.67	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.27	3.26	23.38	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.45	3.26	24.56	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.21	3.26	23.32	34.8	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.3	3.26	22.41	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.76	3.26	23.87	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.37	3.26	23.48	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.39	3.26	23.5	34.8	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.44	3.26	22.55	34.8	PASS

Peak-to-Average Ratio(CCDF)

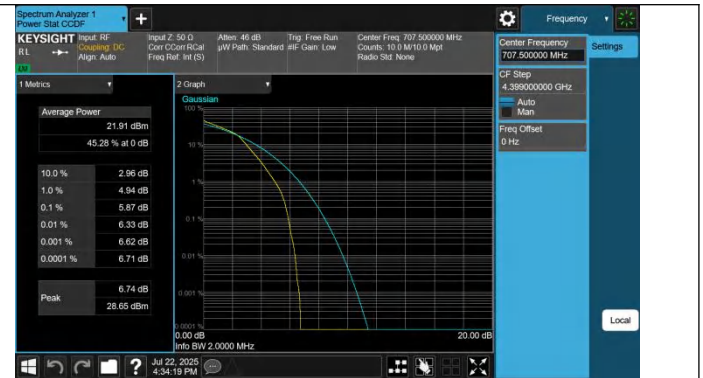
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	5.01	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.87	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.13	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.95	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.12	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.91	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.12	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.88	13	PASS

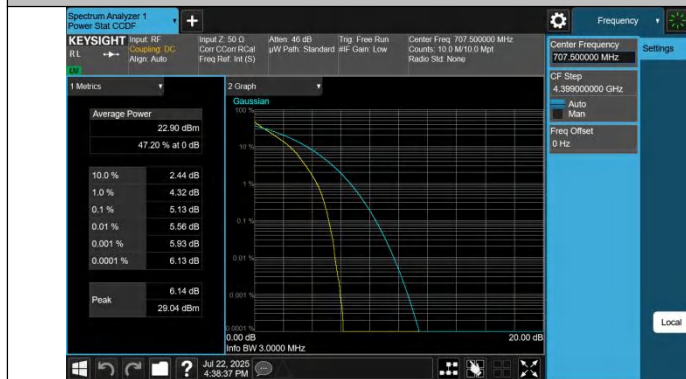
Test Graphs



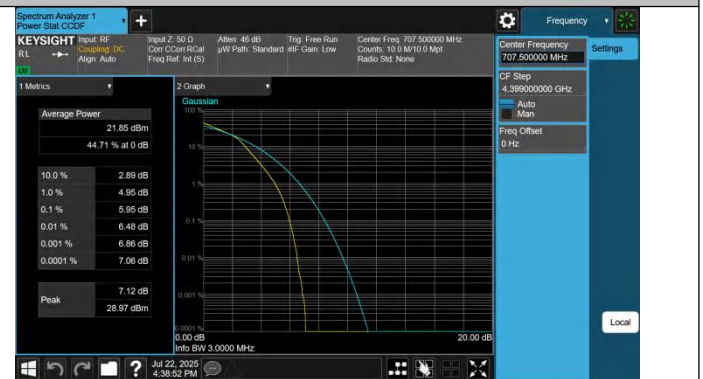
Band12-1.4MHz-QPSK-23095-6RB#0-PASS



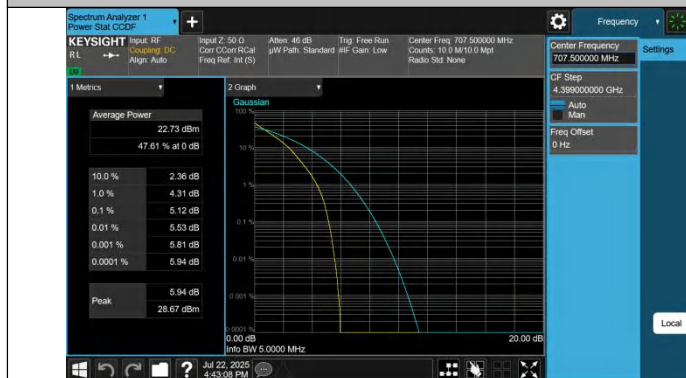
Band12-1.4MHz-16QAM-23095-6RB#0-PASS



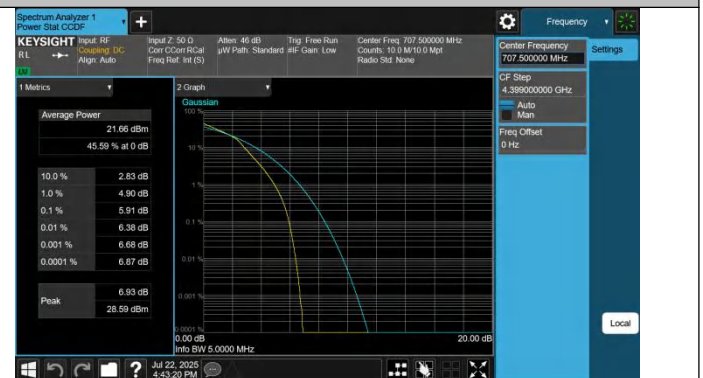
Band12-3MHz-QPSK-23095-15RB#0-PASS



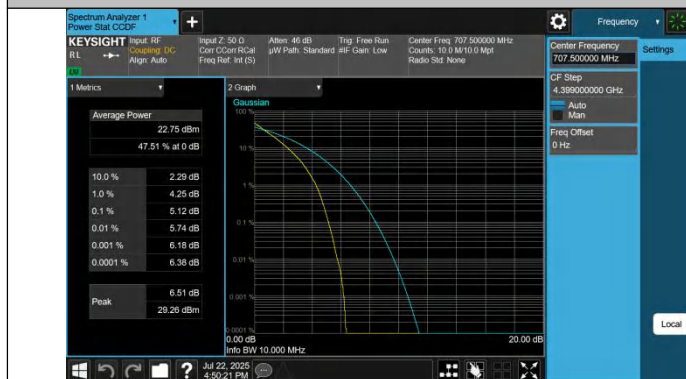
Band12-3MHz-16QAM-23095-15RB#0-PASS



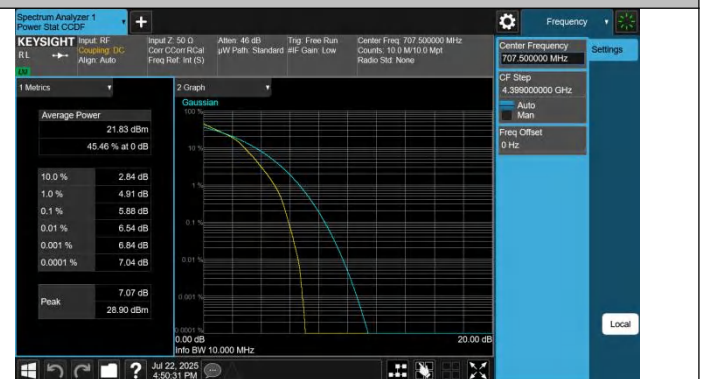
Band12-5MHz-QPSK-23095-25RB#0-PASS



Band12-5MHz-16QAM-23095-25RB#0-PASS



Band12-10MHz-QPSK-23095-50RB#0-PASS



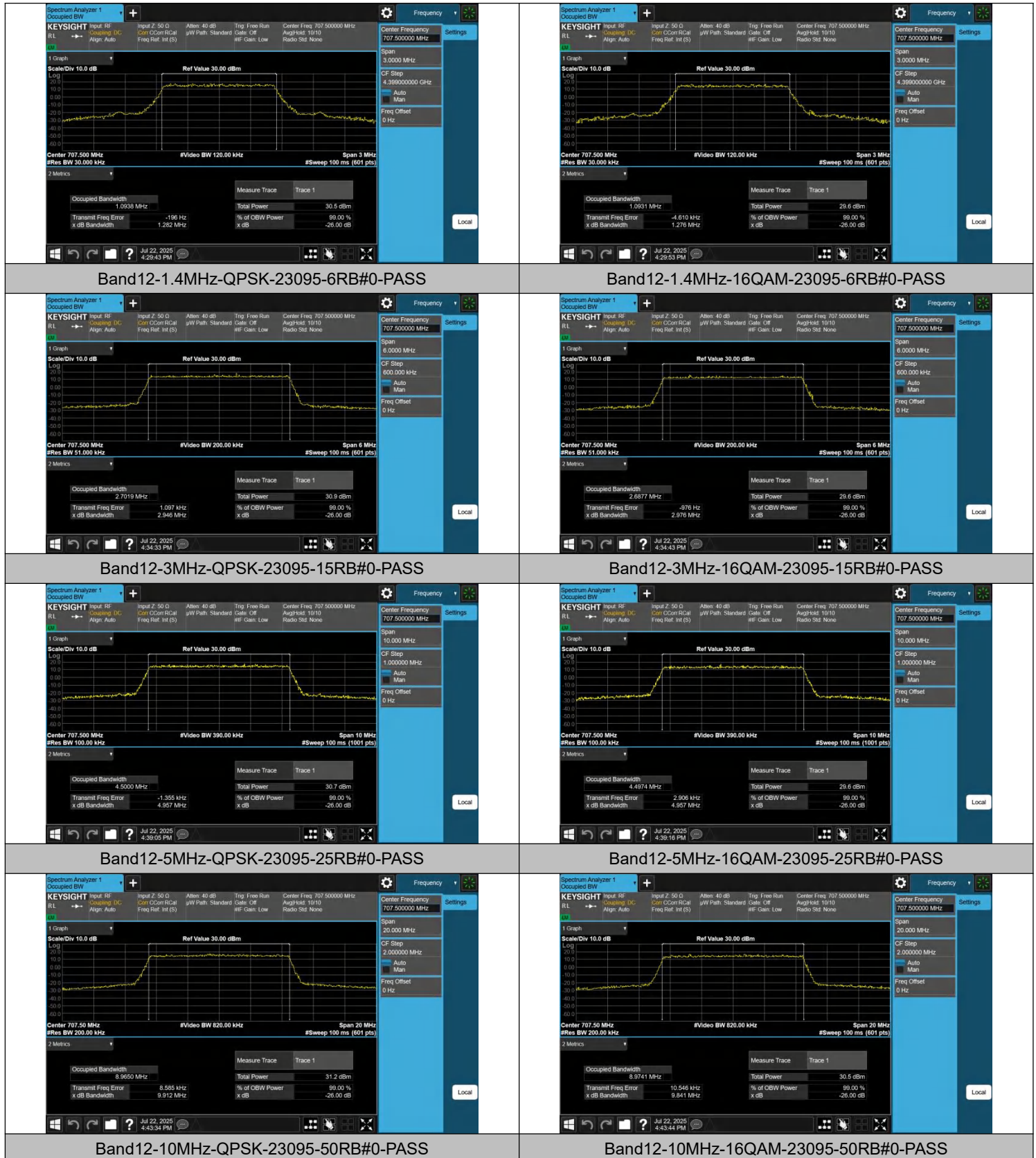
Band12-10MHz-16QAM-23095-50RB#0-PASS

26dB Bandwidth and Occupied Bandwidth

Test Result

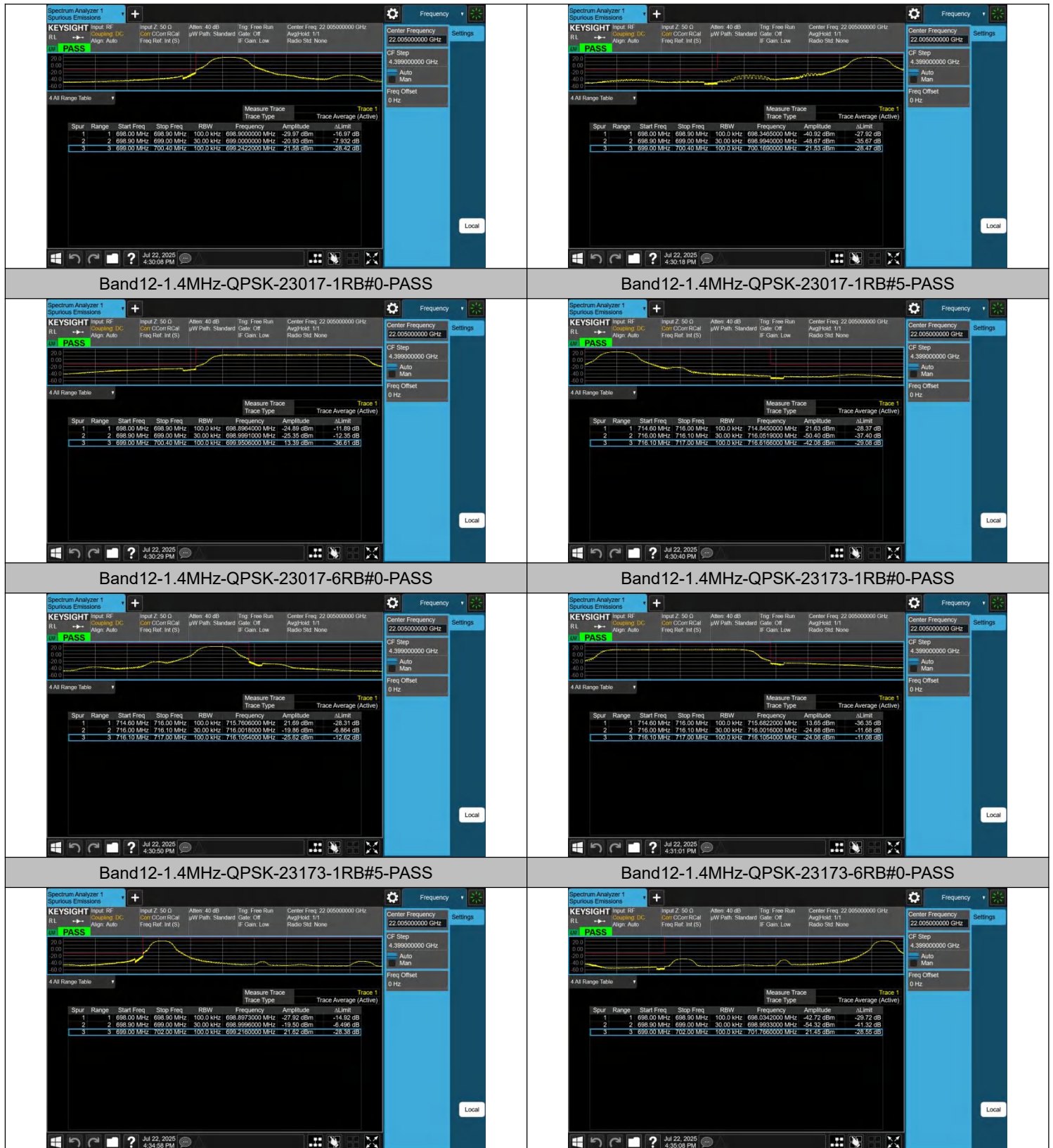
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	1.0938	1.282	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0931	1.276	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7019	2.946	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6877	2.976	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5000	4.957	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4974	4.957	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9650	9.912	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9741	9.841	PASS

Test Graphs



Band Edge

Test Graphs



Band12-3MHz-QPSK-23025-1RB#0-PASS



Band12-3MHz-QPSK-23025-1RB#14-PASS



Band12-3MHz-QPSK-23025-15RB#0-PASS



Band12-3MHz-QPSK-23165-1RB#0-PASS



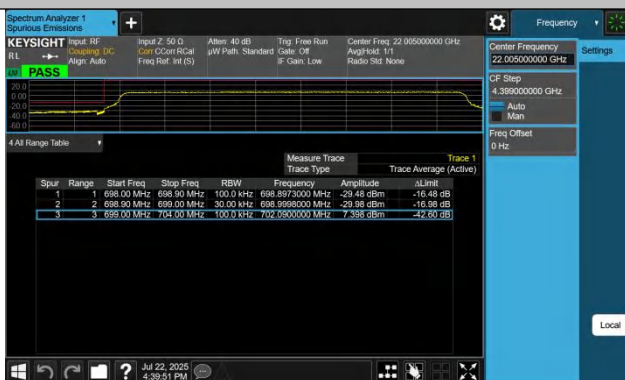
Band12-3MHz-QPSK-23165-1RB#14-PASS



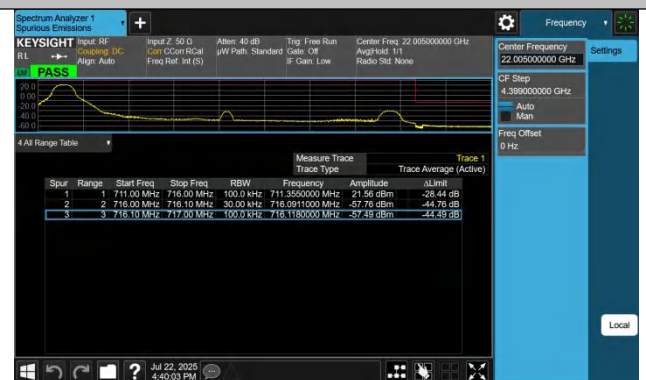
Band12-3MHz-QPSK-23165-15RB#0-PASS



Band12-5MHz-QPSK-23035-1RB#0-PASS



Band12-5MHz-QPSK-23035-1RB#24-PASS



Band12-5MHz-QPSK-23035-25RB#0-PASS

Band12-5MHz-QPSK-23155-1RB#0-PASS



Band12-5MHz-QPSK-23155-1RB#24-PASS



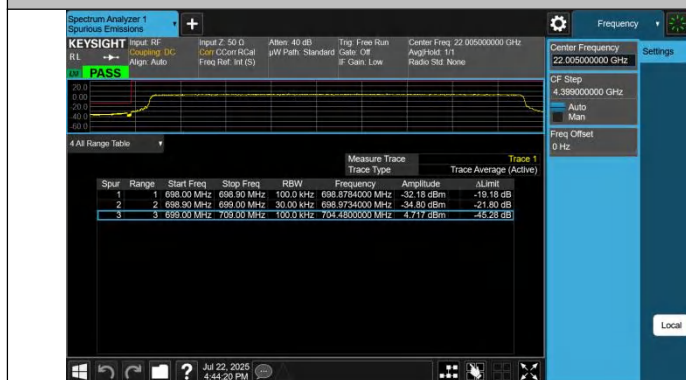
Band12-5MHz-QPSK-23155-25RB#0-PASS



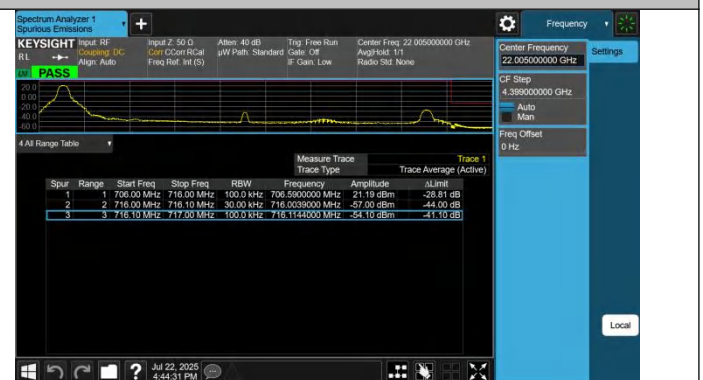
Band12-10MHz-QPSK-23060-1RB#0-PASS



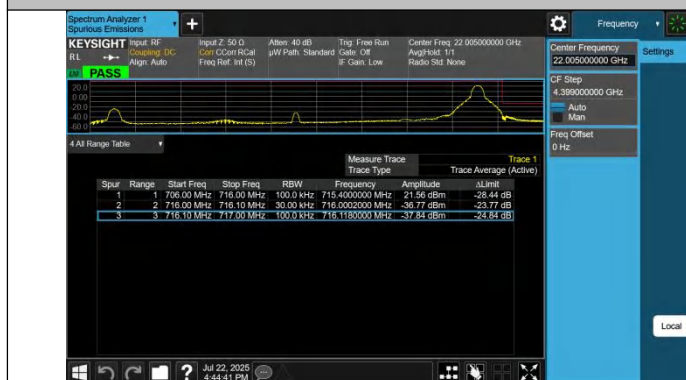
Band12-10MHz-QPSK-23060-1RB#49-PASS



Band12-10MHz-QPSK-23060-50RB#0-PASS



Band12-10MHz-QPSK-23130-1RB#0-PASS



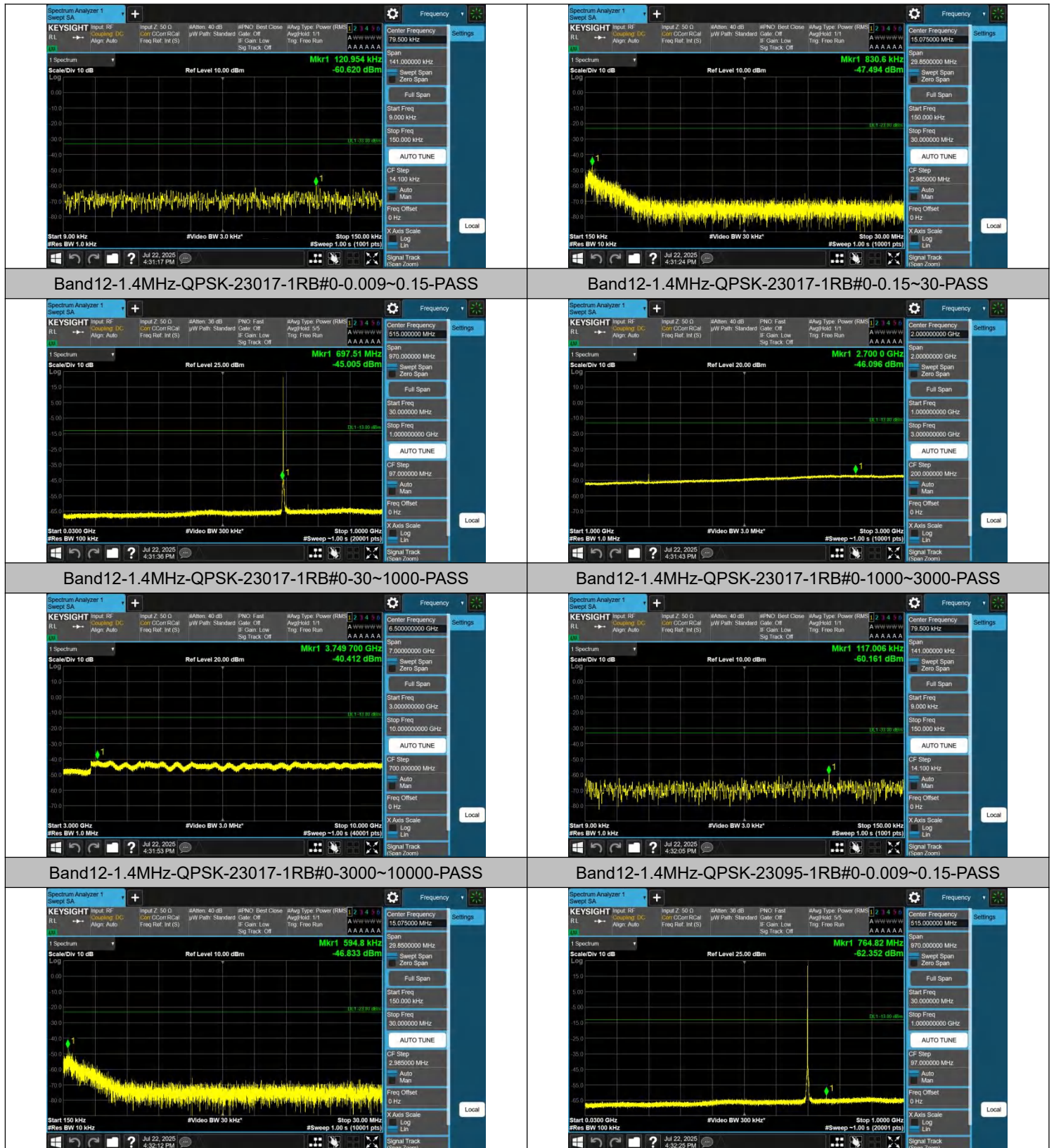
Band12-10MHz-QPSK-23130-1RB#49-PASS



Band12-10MHz-QPSK-23130-50RB#0-PASS

Conducted Spurious Emission

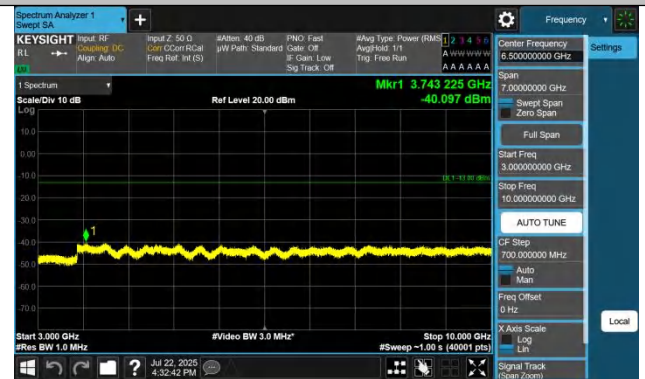
Test Graphs



Band12-1.4MHz-QPSK-23095-1RB#0-0.15~30-PASS



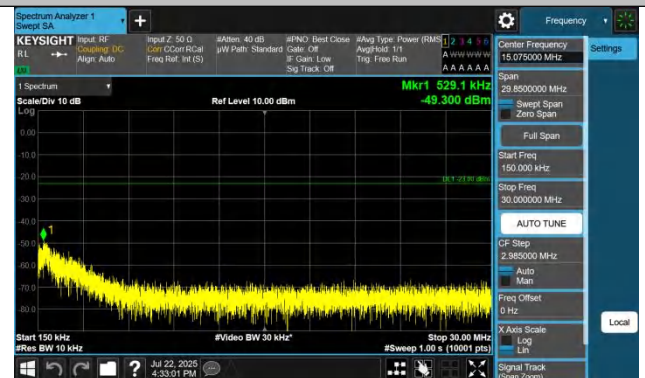
Band12-1.4MHz-QPSK-23095-1RB#0-30~1000-PASS



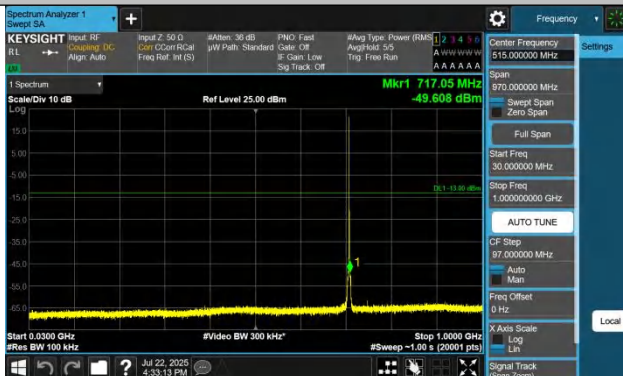
Band12-1.4MHz-QPSK-23095-1RB#0-1000~3000-PASS



Band12-1.4MHz-QPSK-23095-1RB#0-3000~10000-PASS



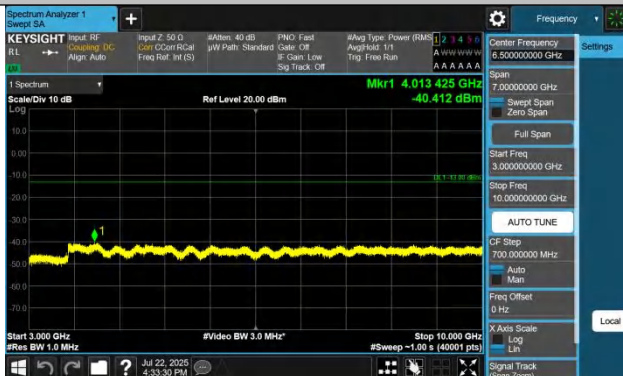
Band12-1.4MHz-QPSK-23173-1RB#0-0.009~0.15-PASS



Band12-1.4MHz-QPSK-23173-1RB#0-0.15~30-PASS



Band12-1.4MHz-QPSK-23173-1RB#0-30~1000-PASS

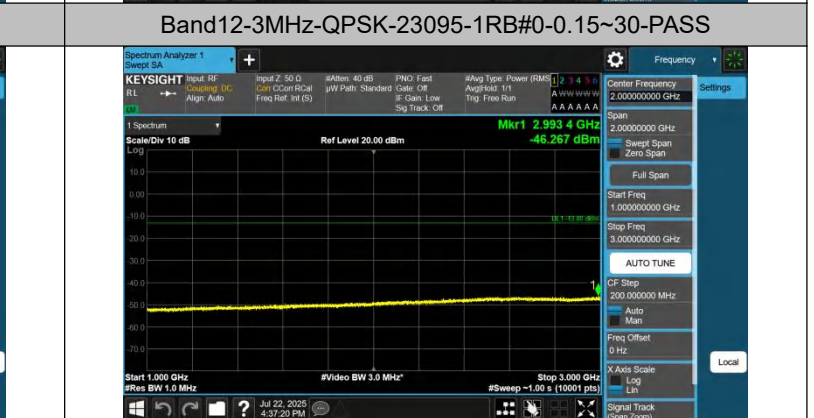
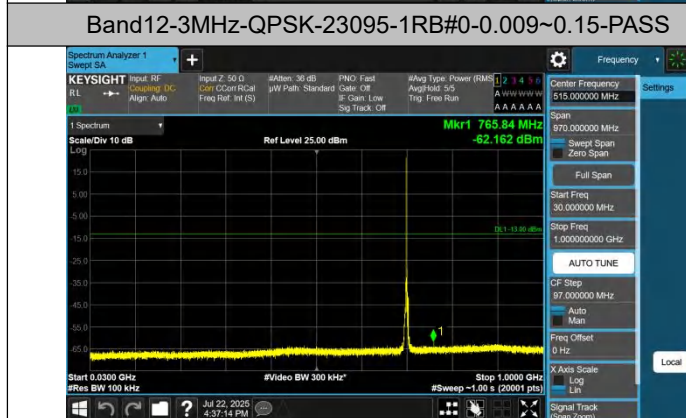
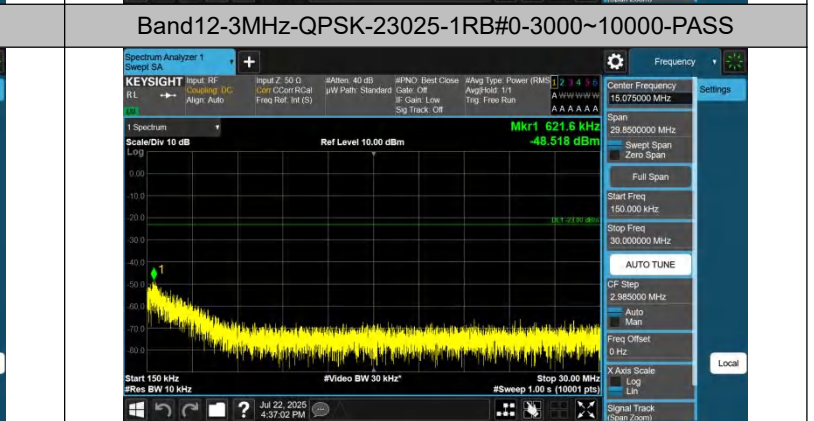
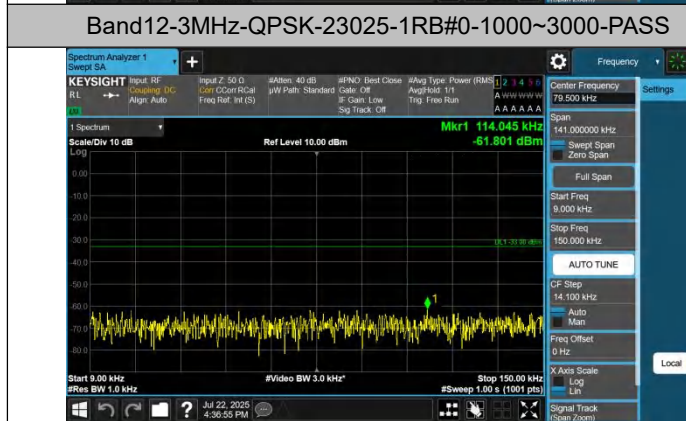
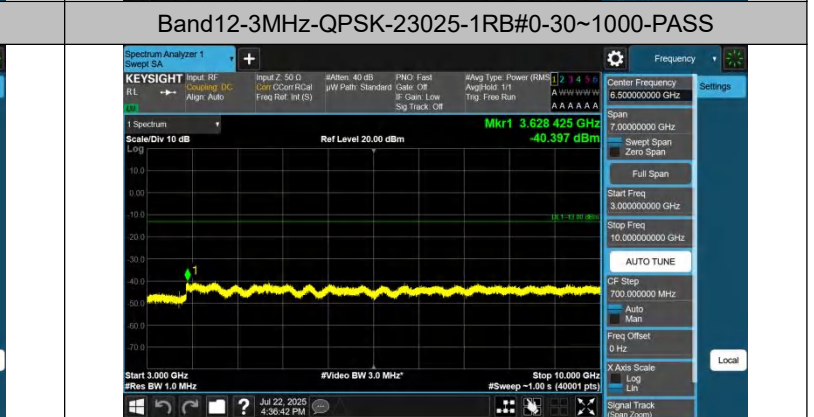
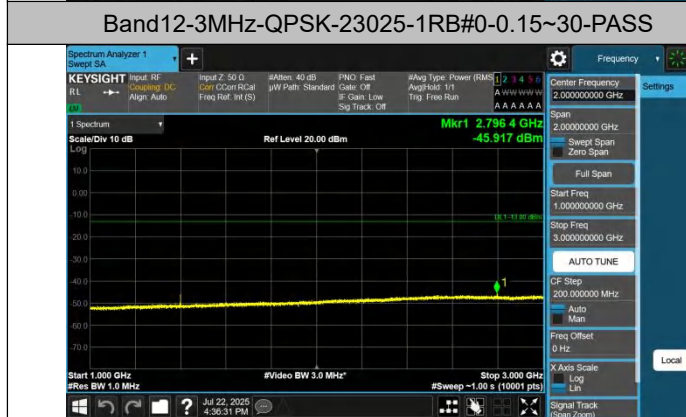
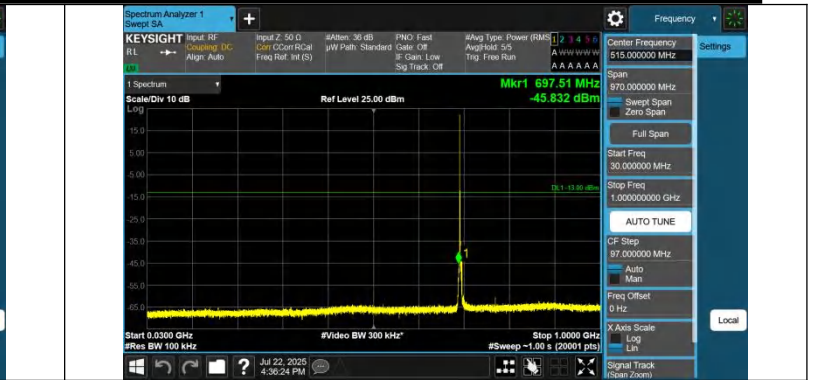


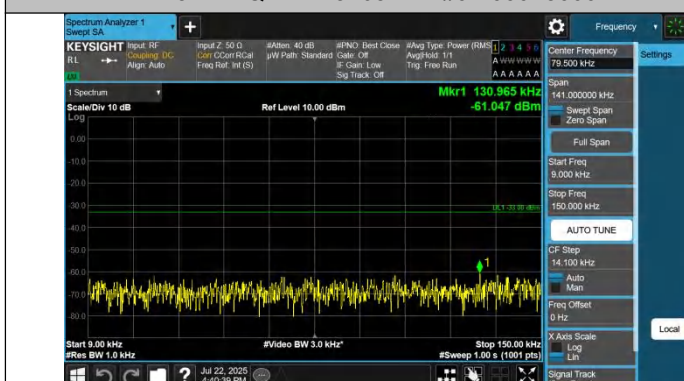
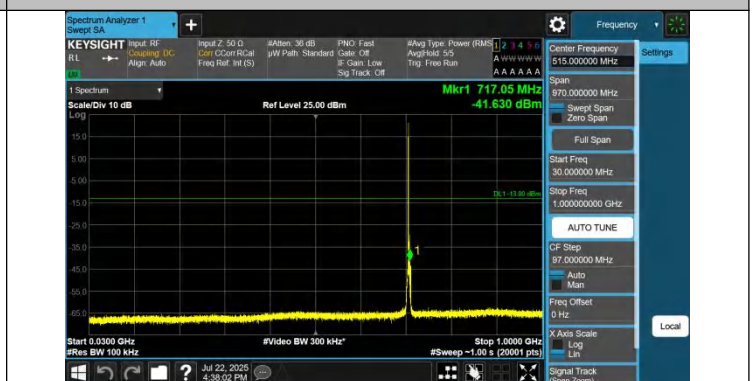
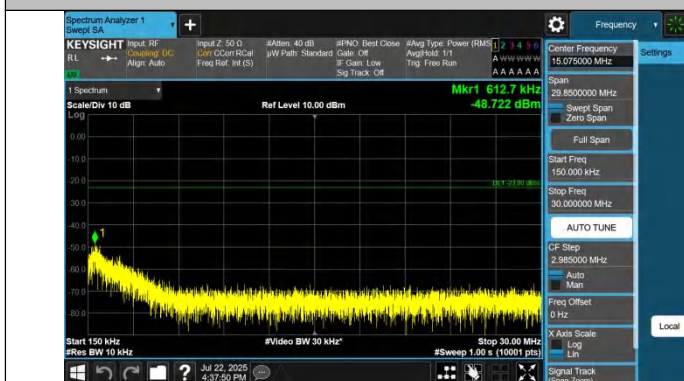
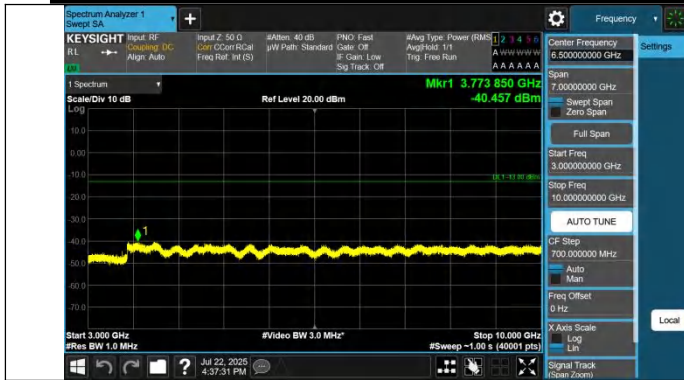
Band12-1.4MHz-QPSK-23173-1RB#0-1000~3000-PASS

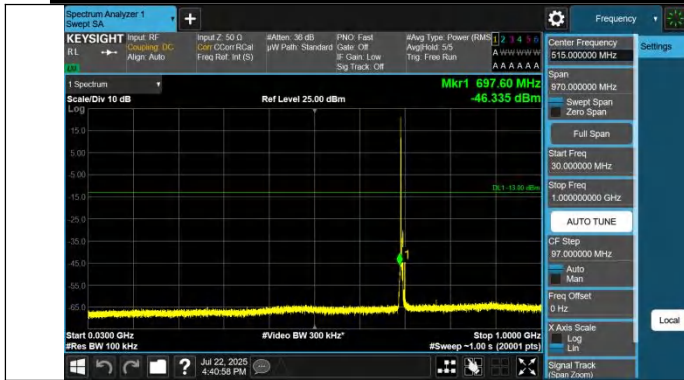


Band12-1.4MHz-QPSK-23173-1RB#0-3000~10000-PASS

Band12-3MHz-QPSK-23025-1RB#0-0.009~0.15-PASS



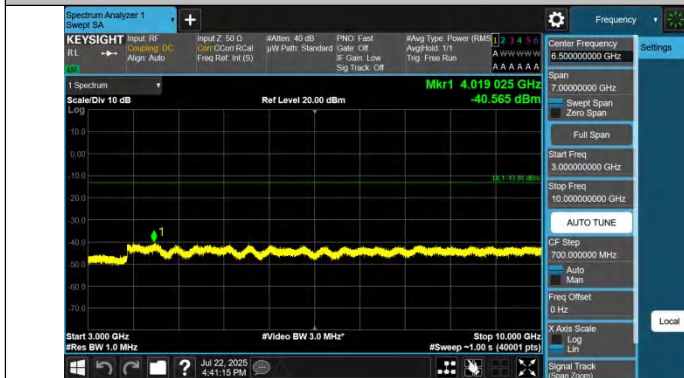




Band12-5MHz-QPSK-23035-1RB#0-30~1000-PASS



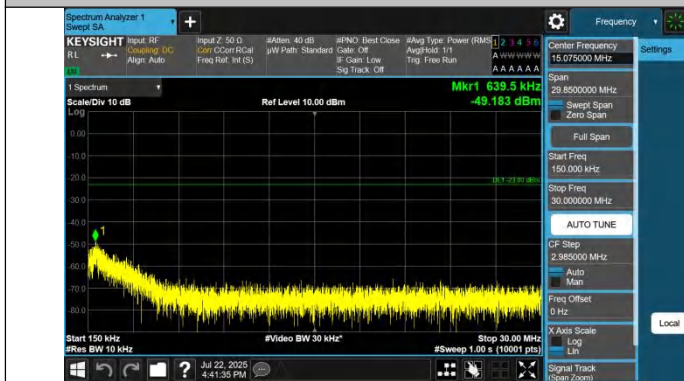
Band12-5MHz-QPSK-23035-1RB#0-1000~3000-PASS



Band12-5MHz-QPSK-23035-1RB#0-3000~10000-PASS



Band12-5MHz-QPSK-23095-1RB#0-0.009~0.15-PASS



Band12-5MHz-QPSK-23095-1RB#0-0.15~30-PASS



Band12-5MHz-QPSK-23095-1RB#0-30~1000-PASS



Band12-5MHz-QPSK-23095-1RB#0-1000~3000-PASS



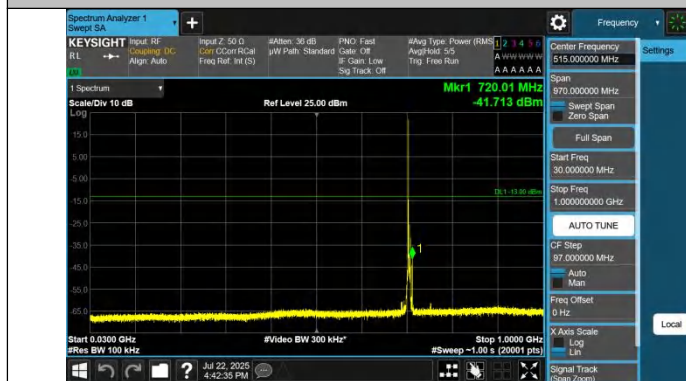
Band12-5MHz-QPSK-23095-1RB#0-3000~10000-PASS



Band12-5MHz-QPSK-23155-1RB#0-0.009~0.15-PASS



Band12-5MHz-QPSK-23155-1RB#0-0.15~30-PASS



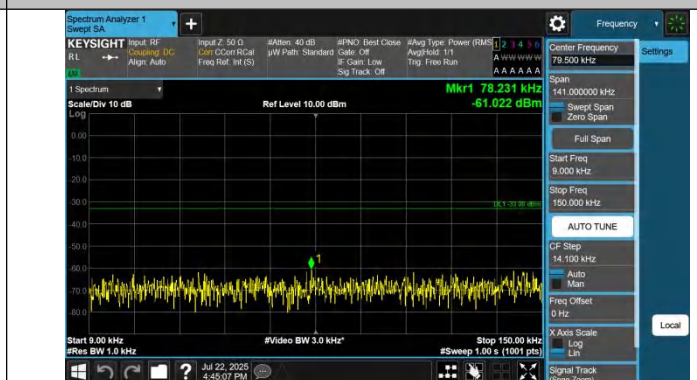
Band12-5MHz-QPSK-23155-1RB#0-30~1000-PASS



Band12-5MHz-QPSK-23155-1RB#0-1000~3000-PASS



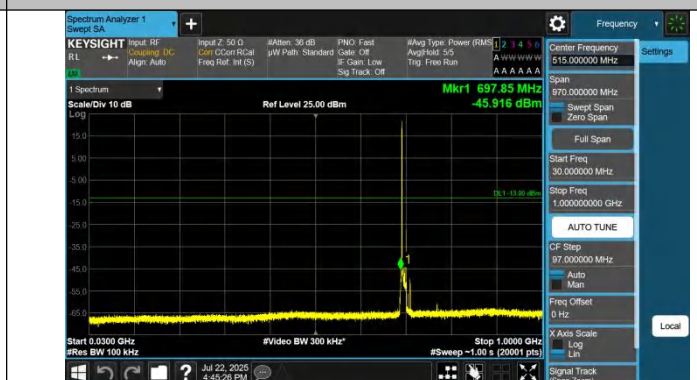
Band12-5MHz-QPSK-23155-1RB#0-3000~10000-PASS



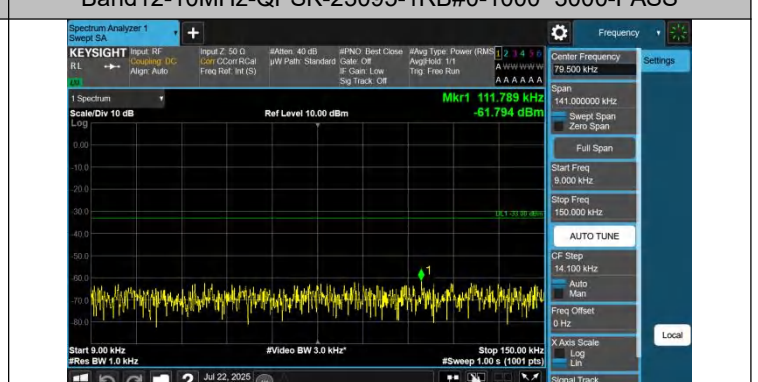
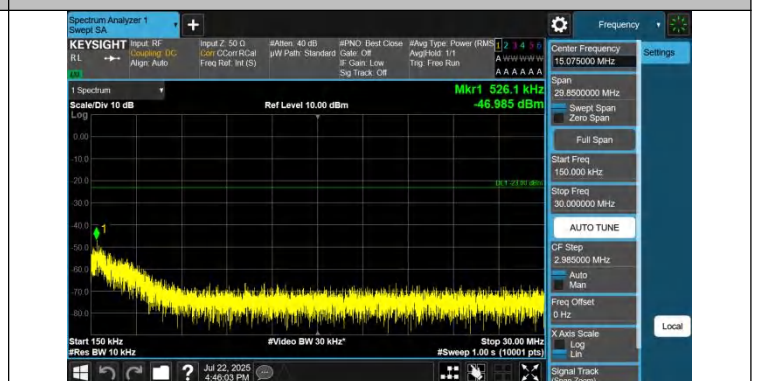
Band12-10MHz-QPSK-23060-1RB#0-0.009~0.15-PASS



Band12-10MHz-QPSK-23060-1RB#0-0.15~30-PASS

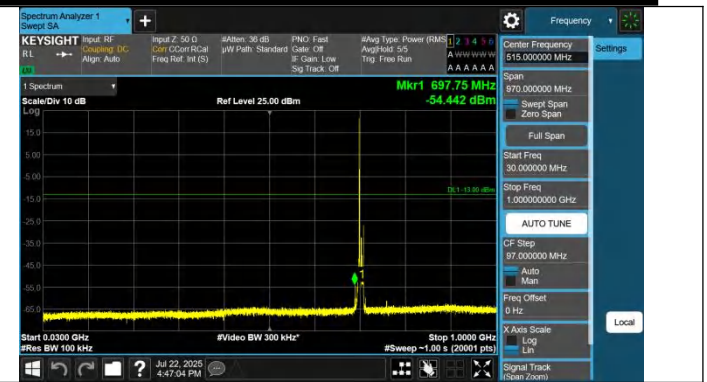


Band12-10MHz-QPSK-23060-1RB#0-30~1000-PASS





Band12-10MHz-QPSK-23130-1RB#0-0.15~30-PASS



Band12-10MHz-QPSK-23130-1RB#0-30~1000-PASS



Band12-10MHz-QPSK-23130-1RB#0-1000~3000-PASS



Band12-10MHz-QPSK-23130-1RB#0-3000~10000-PASS

Frequency Stability

Test Result

Voltage													
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band 12	10MHz	QPSK	23095	50RB#0	VN	NT	3300.00	4.664311	±NA	703.036	711.9706	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VL	NT	3410.00	4.819788	±NA	703.03716	711.96966	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VH	NT	2860.00	4.042403	±NA	703.03601	711.96971	699-716	PASS

Temperature													
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band 12	10MHz	QPSK	23095	50RB#0	NV	-30	3560.00	5.031802	±NA	703.03606	711.97106	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-20	3510.00	4.961131	±NA	703.03491	711.97211	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-10	3220.00	4.551237	±NA	703.03352	711.97292	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	0	2770.00	3.915194	±NA	703.03527	711.97027	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	10	3280.00	4.636042	±NA	703.03498	711.97158	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	20	3500.00	4.946996	±NA	703.03395	711.97305	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	30	3480.00	4.918728	±NA	703.03873	711.96823	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	40	2620.00	3.703180	±NA	703.03507	711.97017	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	50	3550.00	5.017668	±NA	703.0379	711.9692	699-716	PASS

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