

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Gain (dBi)	EIRP/ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.02	3.26	24.13	34.8	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.7	3.26	23.81	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.12	3.26	24.23	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.04	3.26	24.15	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.06	3.26	24.17	34.8	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.65	3.26	23.76	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.42	3.26	24.53	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.12	3.26	24.23	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.14	3.26	24.25	34.8	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.7	3.26	23.81	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.11	3.26	24.22	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.18	3.26	24.29	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.76	3.26	23.87	34.8	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.84	3.26	22.95	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.16	3.26	24.27	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.3	3.26	23.41	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.48	3.26	23.59	34.8	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.37	3.26	22.48	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.89	3.26	24	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.58	3.26	23.69	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.19	3.26	24.3	34.8	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.7	3.26	22.81	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.17	3.26	24.28	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.77	3.26	23.88	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.05	3.26	24.16	34.8	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.73	3.26	23.84	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.12	3.26	24.23	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.14	3.26	24.25	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.26	3.26	24.37	34.8	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.83	3.26	23.94	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.42	3.26	24.53	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.08	3.26	24.19	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.15	3.26	24.26	34.8	PASS

Band12	3MHz	QPSK	23165	15RB#0	22.87	3.26	23.98	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.19	3.26	24.3	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.24	3.26	24.35	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.79	3.26	23.9	34.8	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.64	3.26	22.75	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.78	3.26	23.89	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.49	3.26	23.6	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.75	3.26	23.86	34.8	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.6	3.26	22.71	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.51	3.26	23.62	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.6	3.26	23.71	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.1	3.26	24.21	34.8	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.88	3.26	22.99	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.11	3.26	24.22	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.74	3.26	23.85	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.01	3.26	24.12	34.8	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.59	3.26	23.7	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.13	3.26	24.24	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.1	3.26	24.21	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.32	3.26	24.43	34.8	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.76	3.26	23.87	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.4	3.26	24.51	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.08	3.26	24.19	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.13	3.26	24.24	34.8	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.76	3.26	23.87	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.2	3.26	24.31	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.9	3.26	24.01	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.64	3.26	23.75	34.8	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.67	3.26	22.78	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.29	3.26	23.4	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.28	3.26	23.39	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.65	3.26	23.76	34.8	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.59	3.26	22.7	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.63	3.26	23.74	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.29	3.26	23.4	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.61	3.26	23.72	34.8	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.69	3.26	22.8	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.71	3.26	23.82	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.62	3.26	23.73	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#0	23	3.26	24.11	34.8	PASS

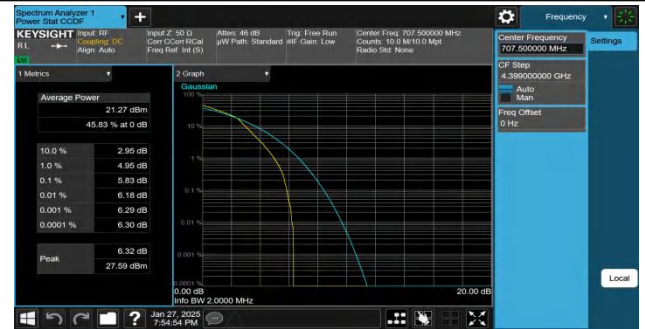
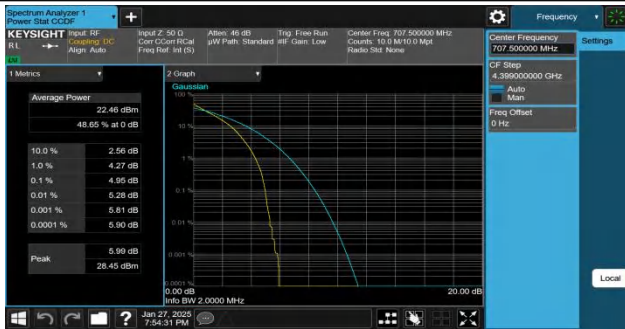
Band12	10MHz	QPSK	23060	50RB#0	22.73	3.26	23.84	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.34	3.26	24.45	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.98	3.26	24.09	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.93	3.26	24.04	34.8	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.72	3.26	23.83	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.2	3.26	24.31	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.02	3.26	24.13	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.19	3.26	24.3	34.8	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.77	3.26	23.88	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.64	3.26	24.75	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.01	3.26	24.12	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.56	3.26	23.67	34.8	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.71	3.26	22.82	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.73	3.26	23.84	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.58	3.26	23.69	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.6	3.26	23.71	34.8	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.63	3.26	22.74	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.86	3.26	23.97	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.49	3.26	23.6	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.64	3.26	23.75	34.8	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.76	3.26	22.87	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.51	3.26	24.62	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.68	3.26	23.79	34.8	PASS

Peak-to-Average Ratio(CCDF)

Test Result

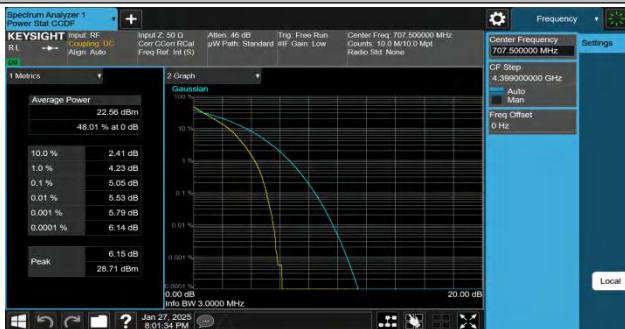
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	4.95	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.83	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.05	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.94	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.05	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.84	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.04	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.86	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

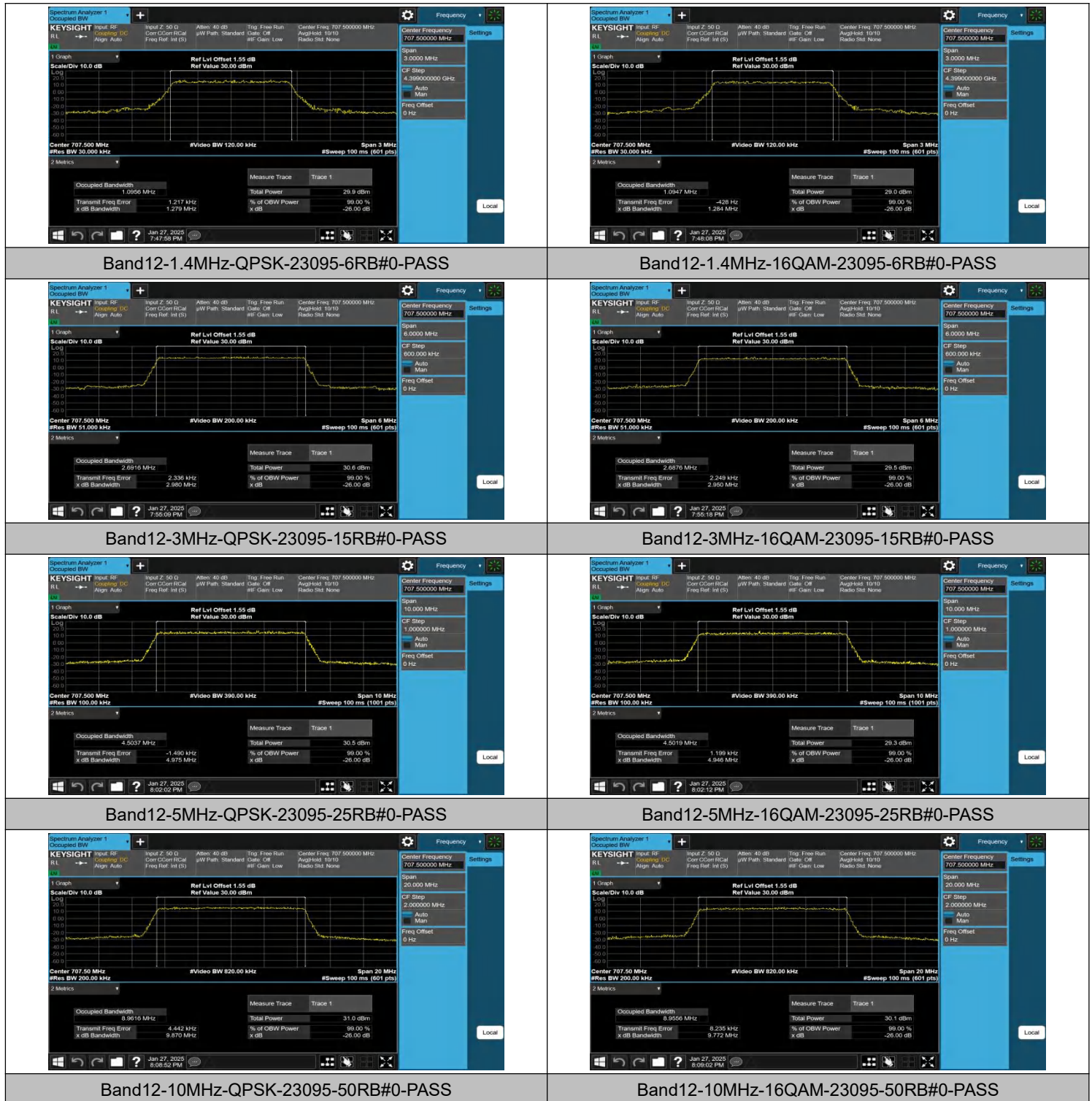
Band12-10MHz-16QAM-23095-50RB#0-PASS

26dB Bandwidth and Occupied Bandwidth

Test Result

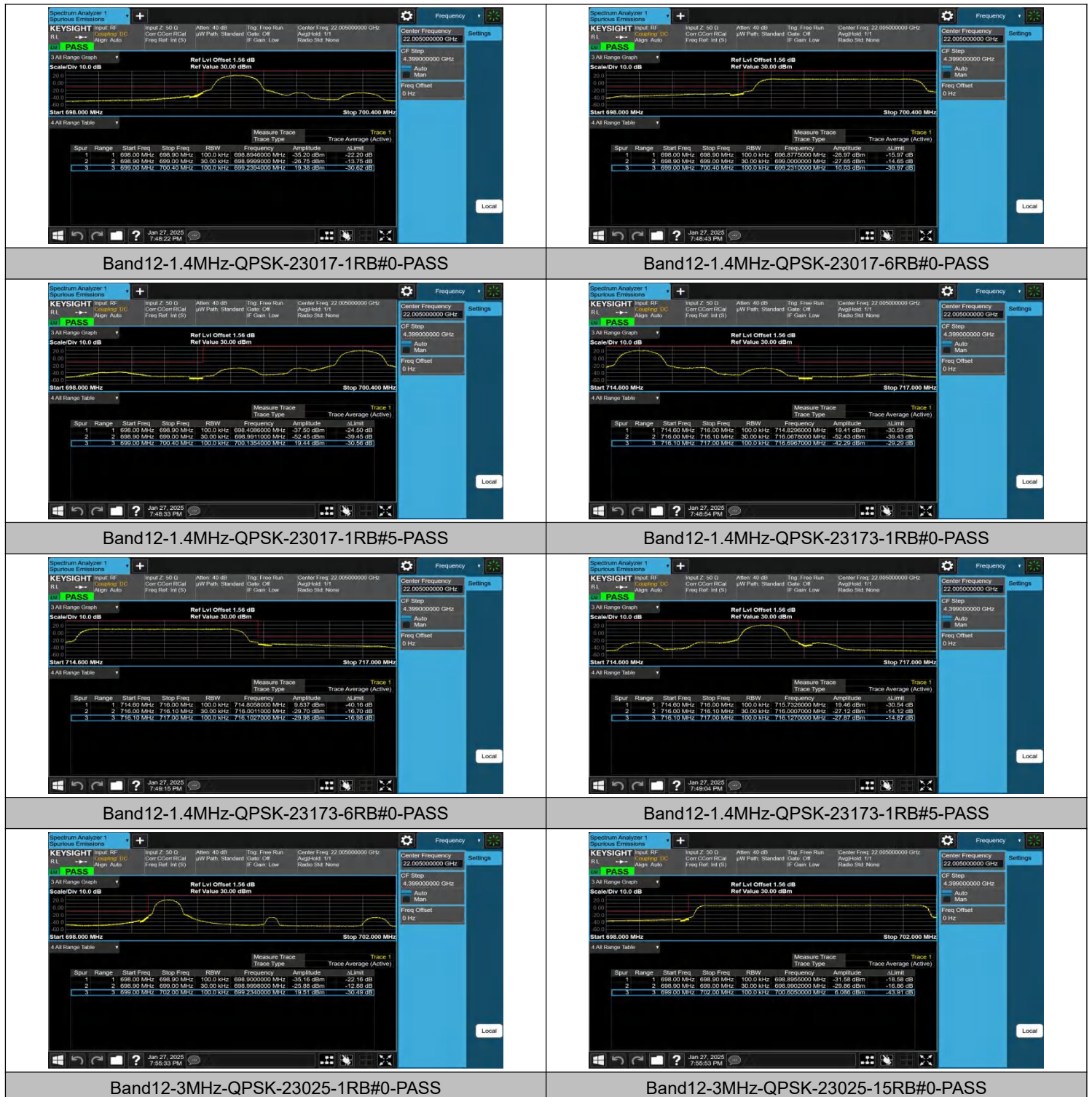
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	1.0956	1.279	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0947	1.284	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6916	2.980	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6876	2.950	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5037	4.975	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5019	4.946	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9616	9.870	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9556	9.772	PASS

Test Graphs



Band Edge

Test Graphs

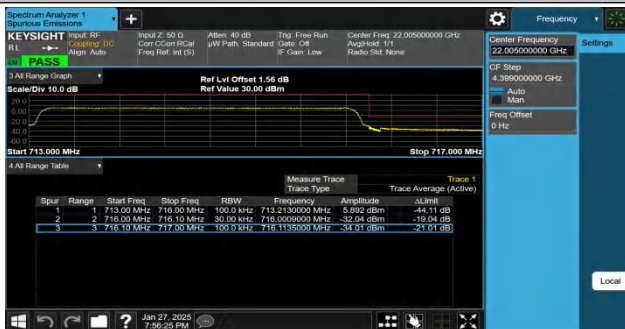




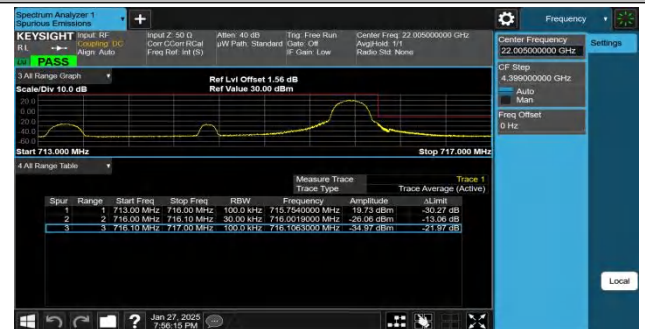
Band12-3MHz-QPSK-23025-1RB#14-PASS



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



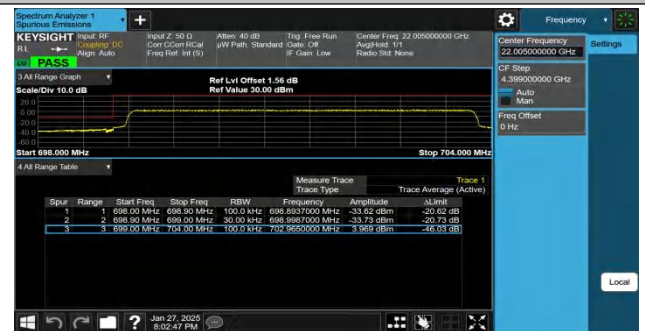
Band12-3MHz-QPSK-23165-15RB#0-PASS



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



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



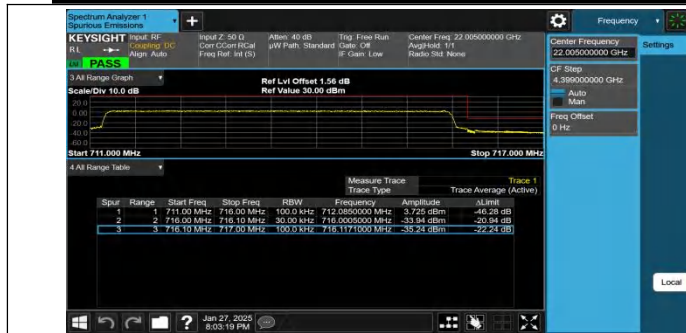
Band12-5MHz-QPSK-23035-25RB#0-PASS



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



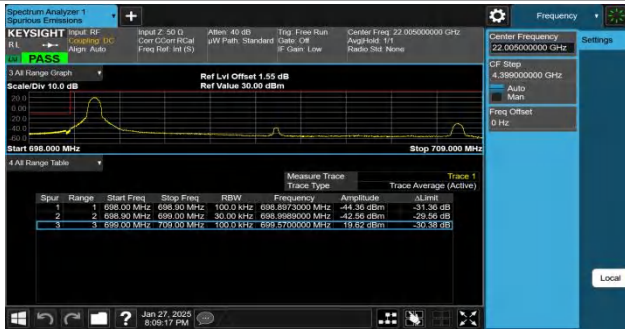
Band12-5MHz-QPSK-23155-1RB#0-PASS



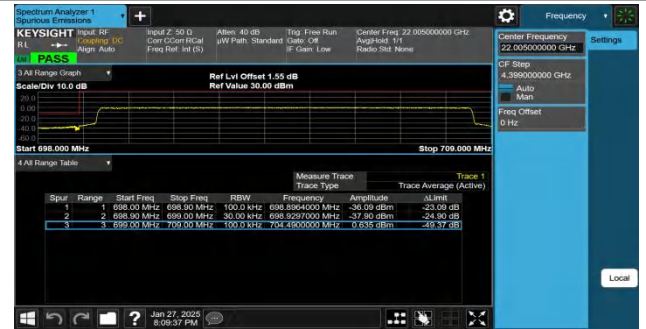
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Band12-5MHz-QPSK-23155-1RB#24-PASS



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



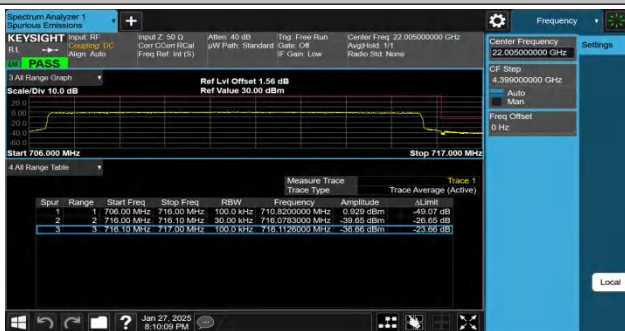
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Band12-10MHz-QPSK-23060-1RB#49-PASS



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



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

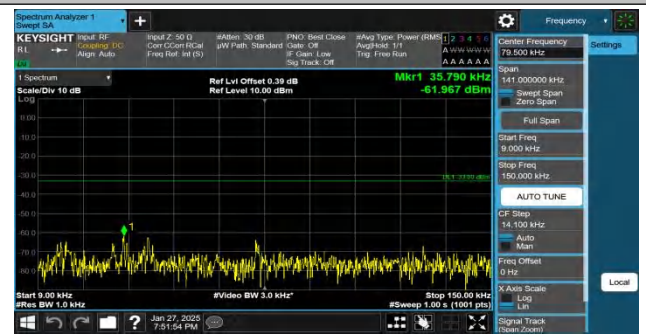
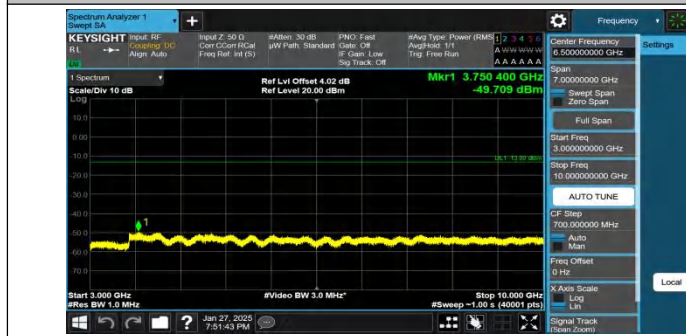
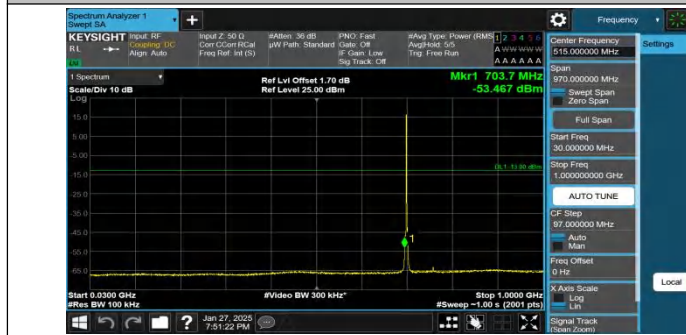
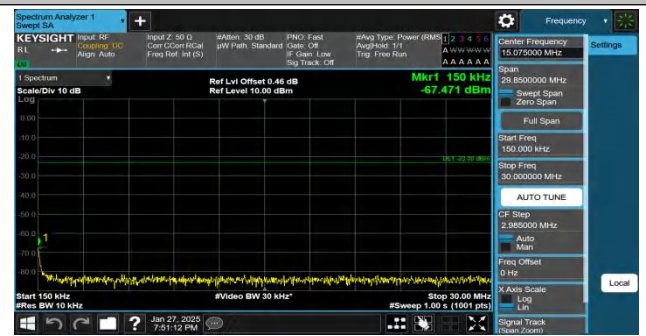


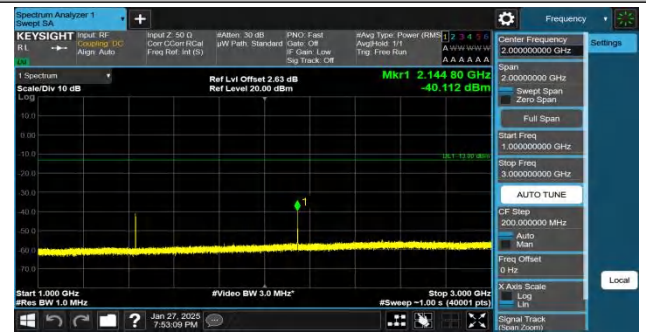
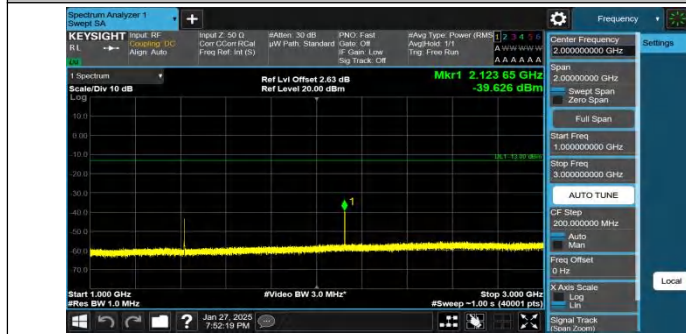
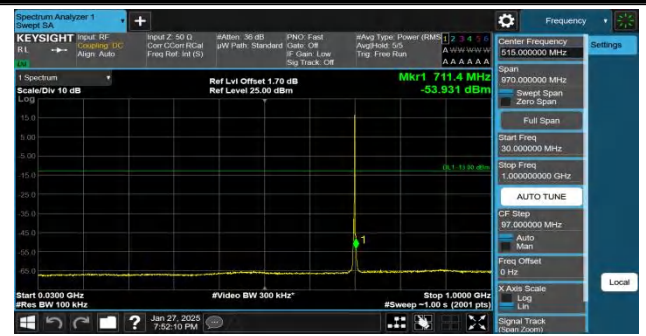
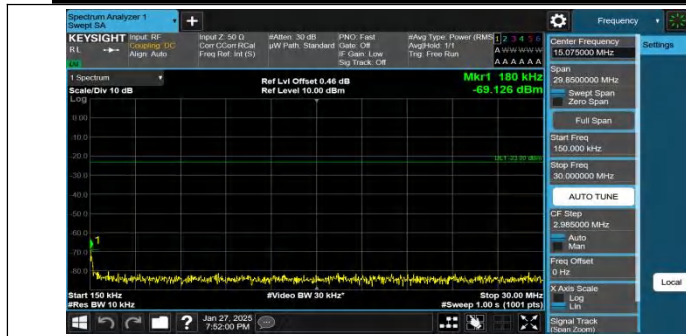
Band12-10MHz-QPSK-23130-1RB#49-PASS

Conducted Spurious Emission

Test Graphs

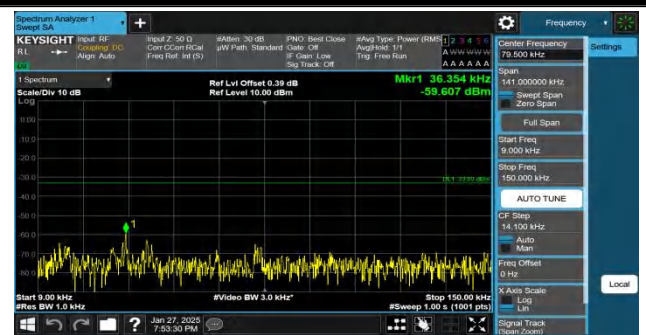




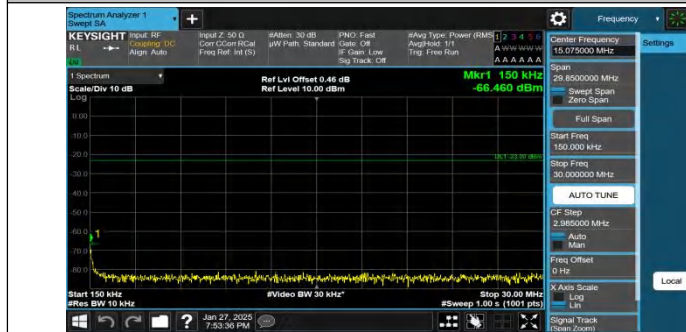




Band12-1.4MHz-QPSK-23173-1RB#0-3000~10000-PASS



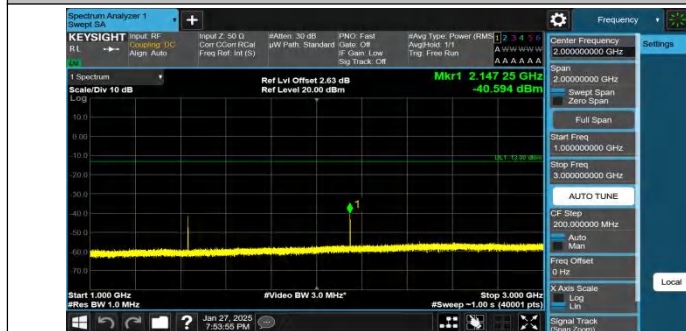
Band12-1.4MHz-QPSK-23173-1RB#5-0.009~0.15-PASS



Band12-1.4MHz-QPSK-23173-1RB#5-0.15~30-PASS



Band12-1.4MHz-QPSK-23173-1RB#5-30~1000-PASS



Band12-1.4MHz-QPSK-23173-1RB#5-1000~3000-PASS



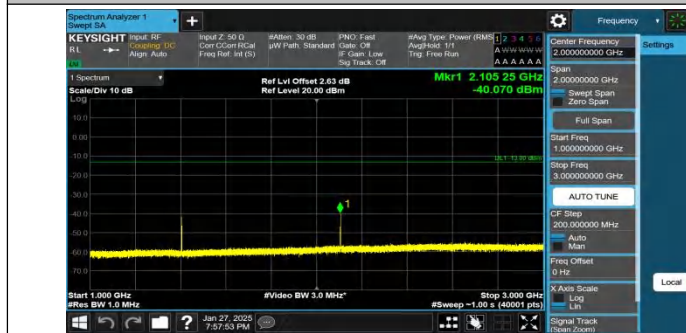
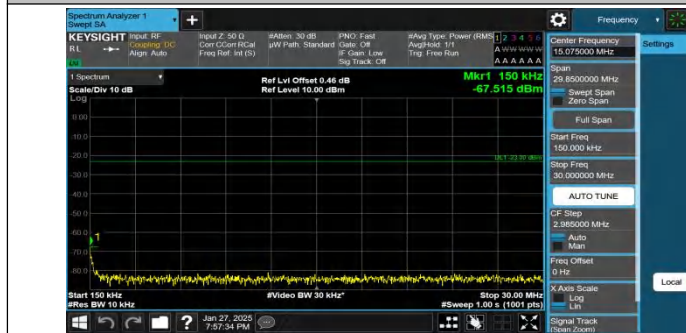
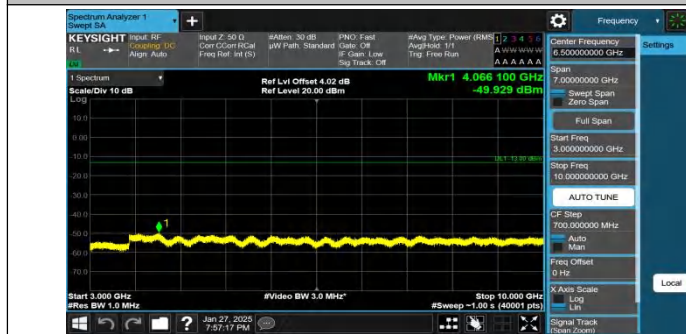
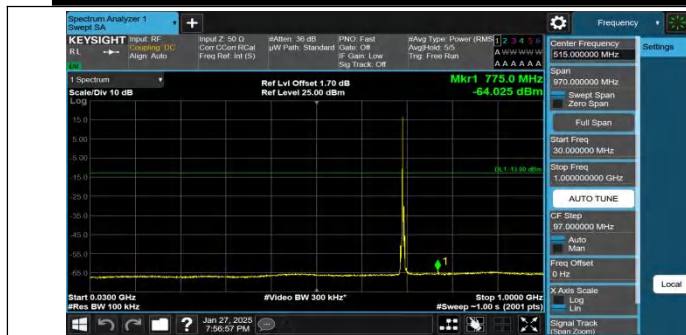
Band12-1.4MHz-QPSK-23173-1RB#5-3000~10000-PASS

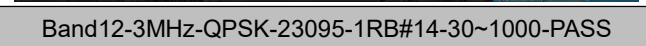
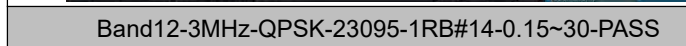
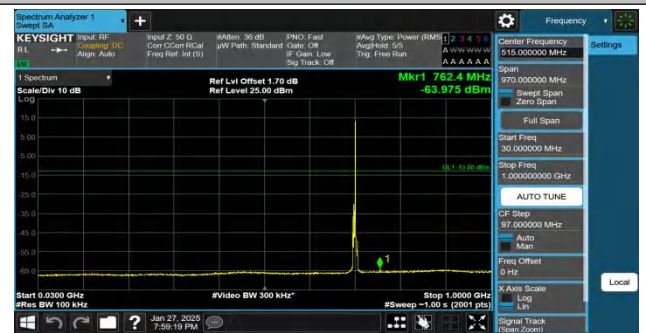
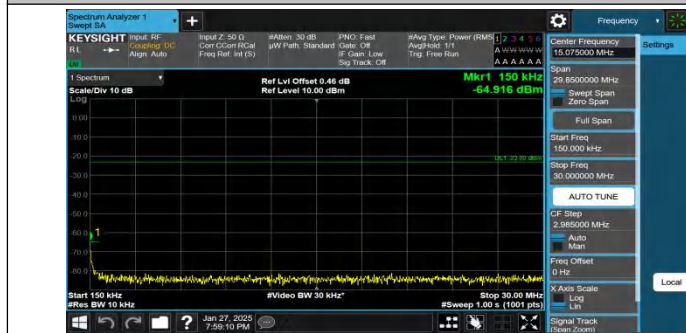
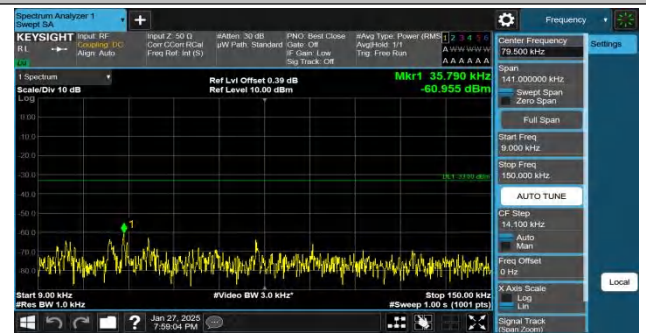
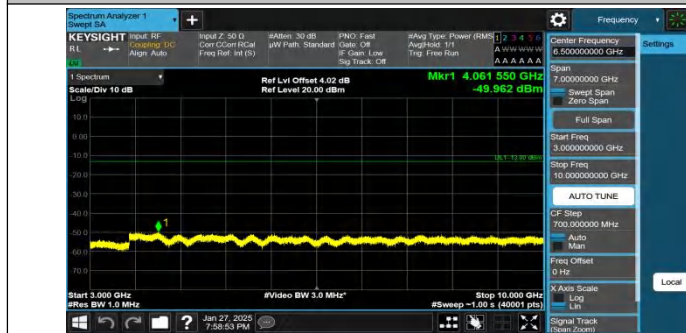
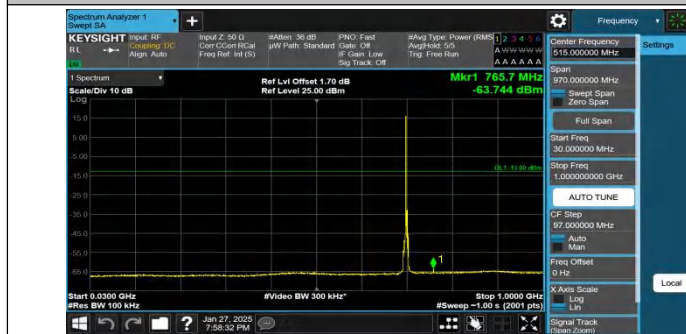
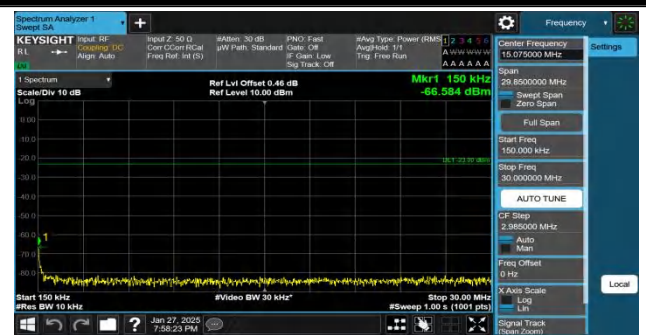
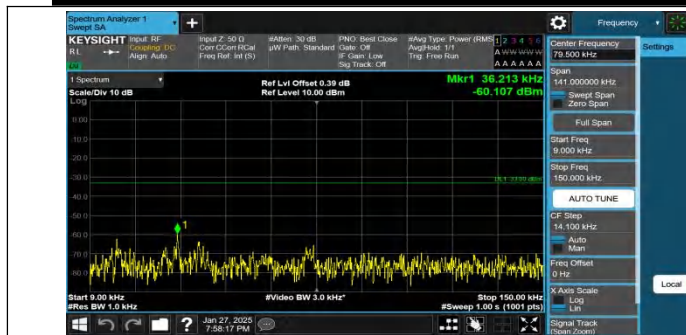


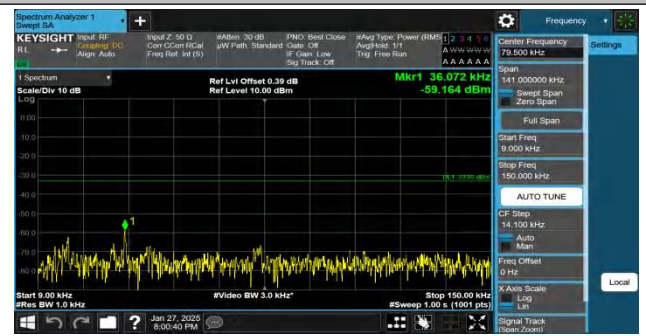
Band12-3MHz-QPSK-23025-1RB#0-0.009~0.15-PASS

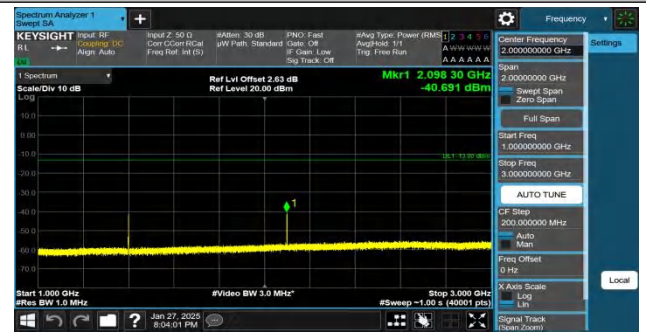
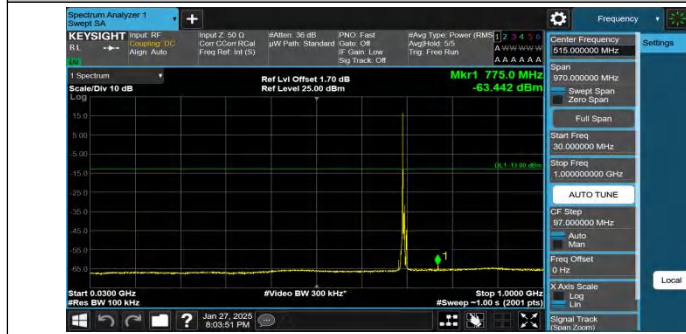
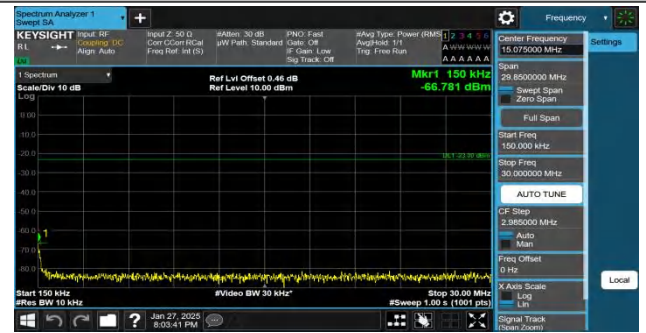
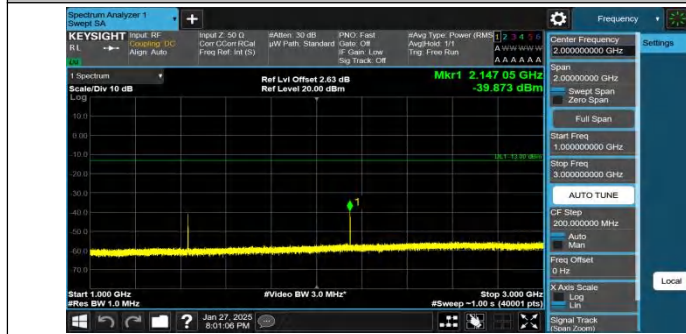
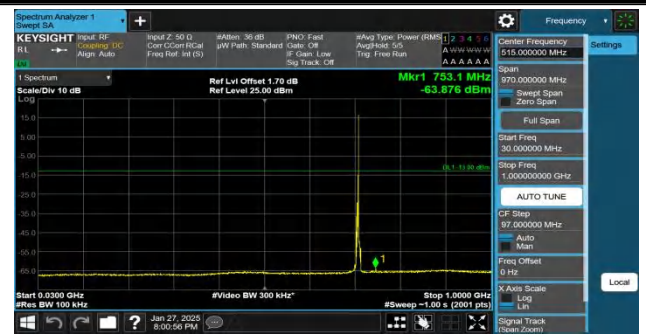
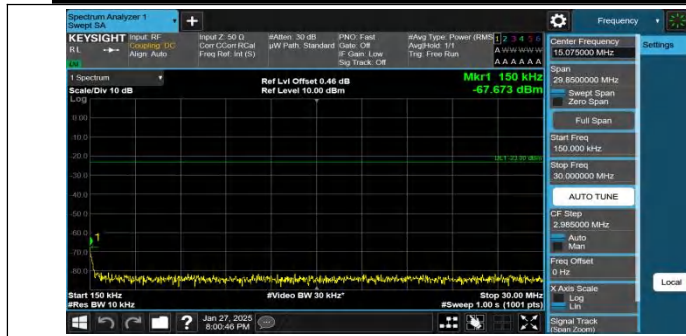


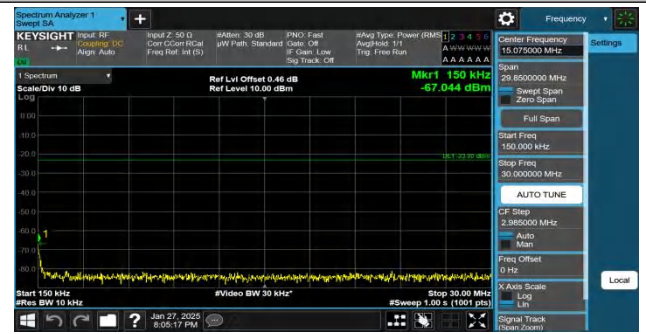
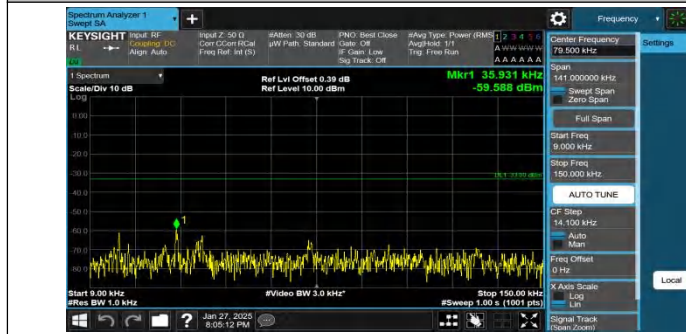
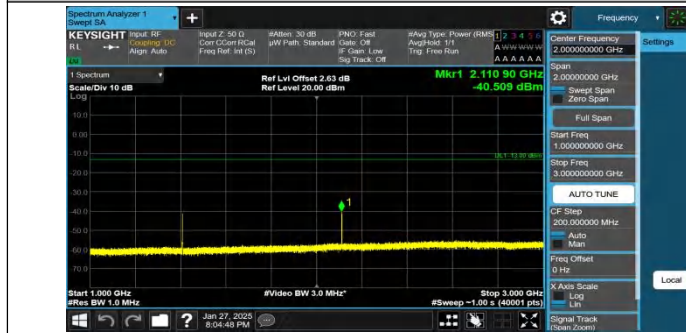
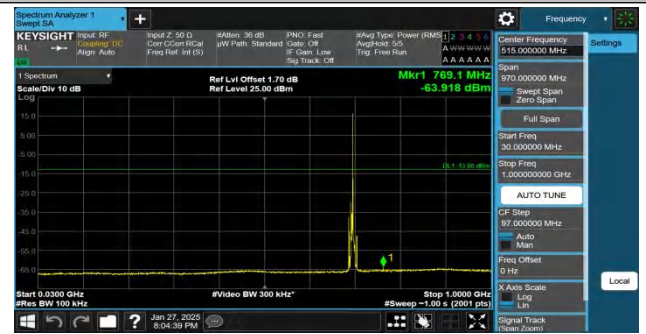
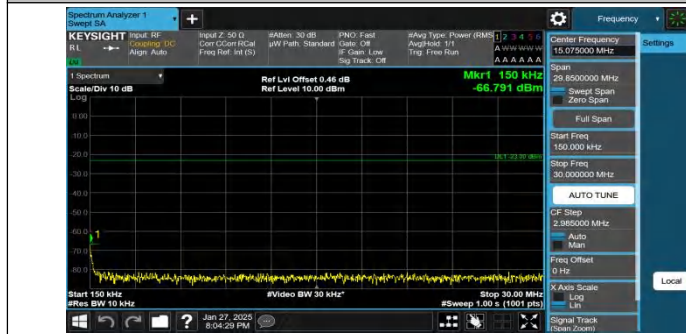
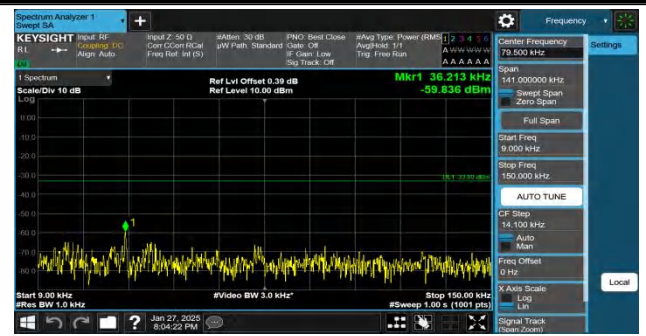
Band12-3MHz-QPSK-23025-1RB#0-0.15~30-PASS

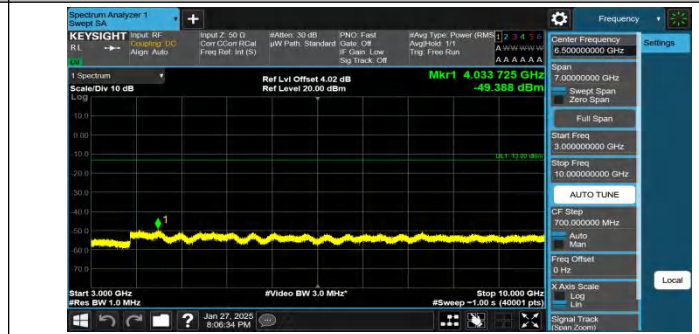
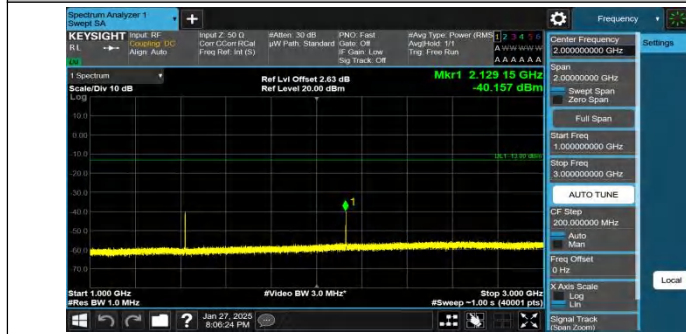
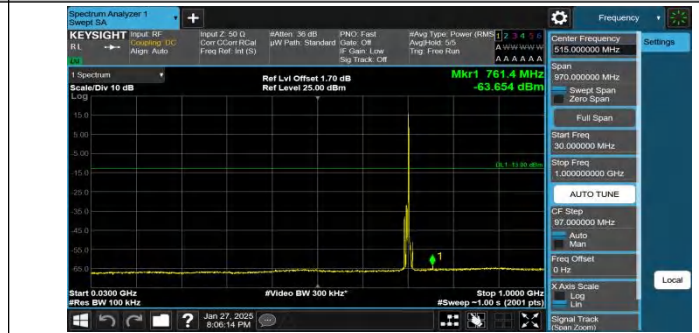
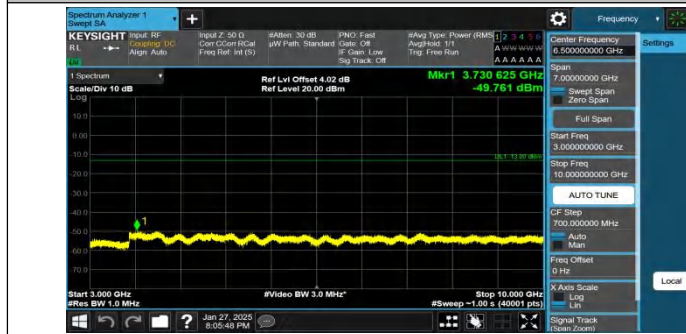
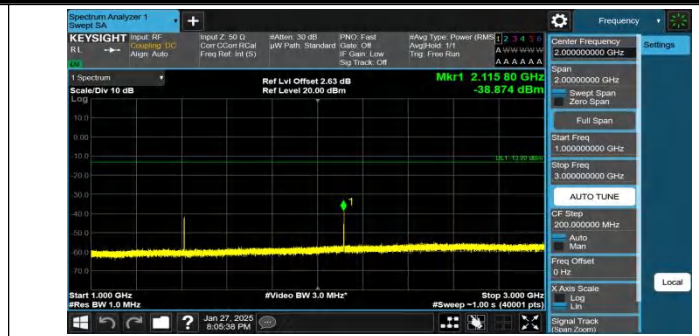
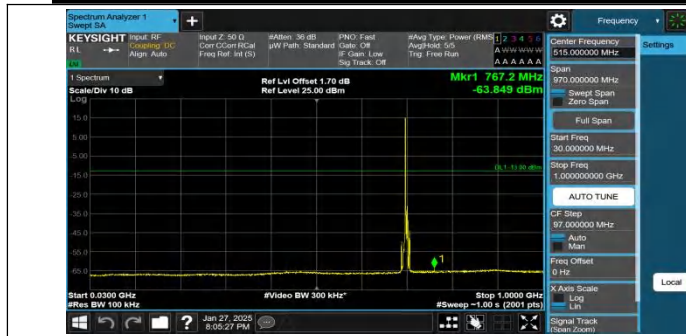


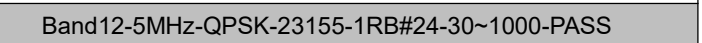
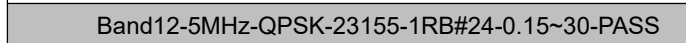
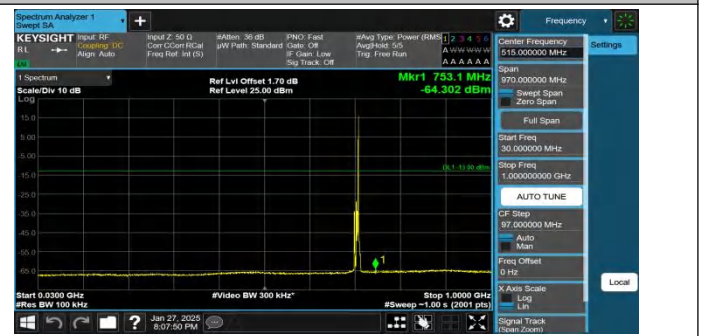
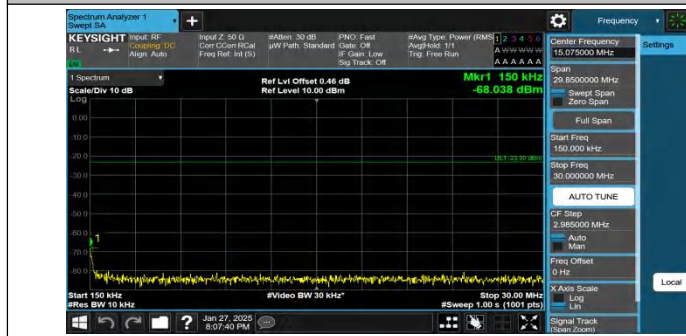
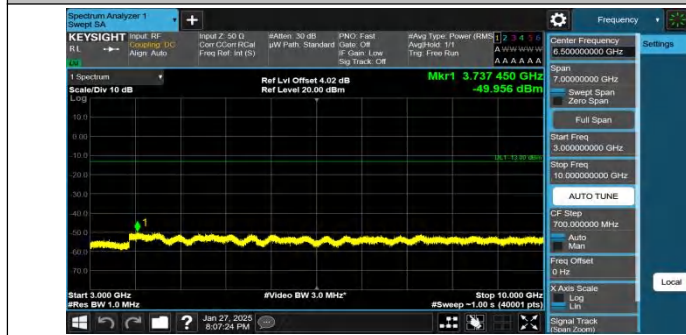
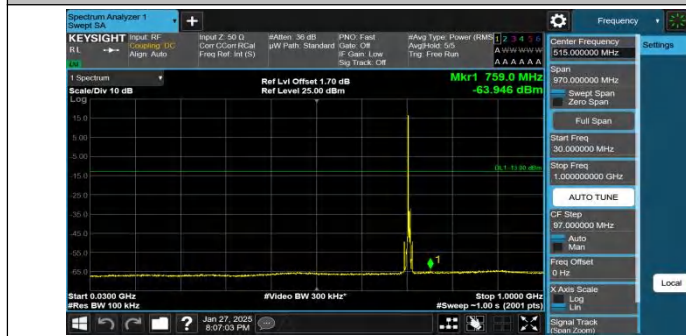
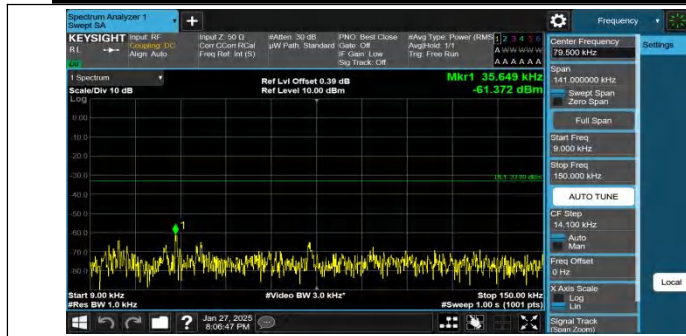


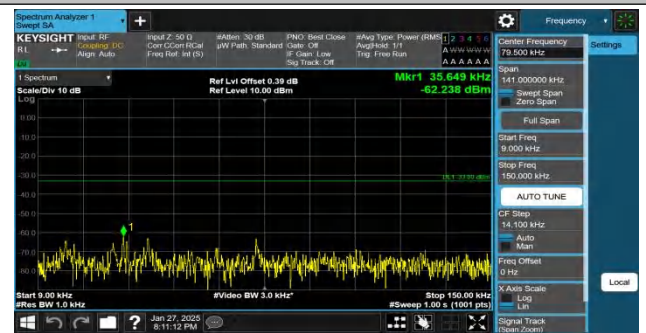
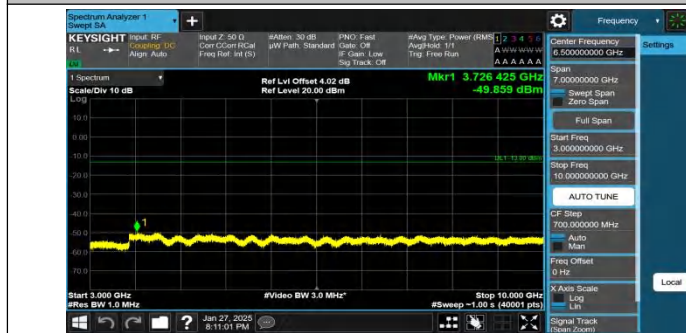
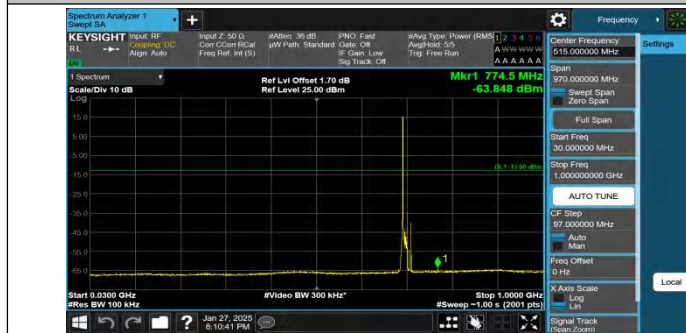
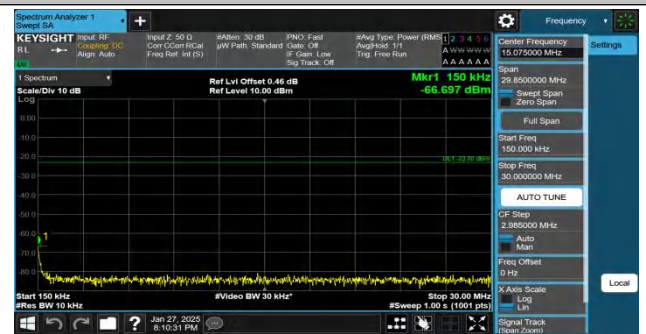
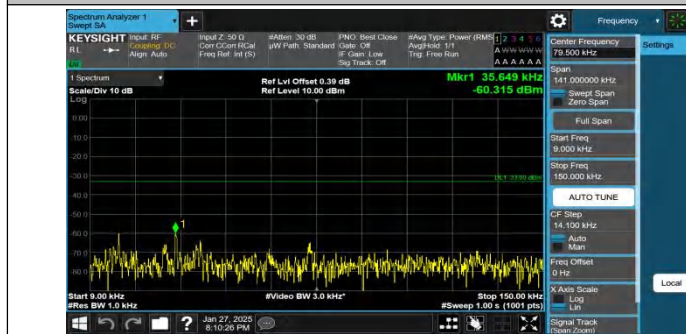
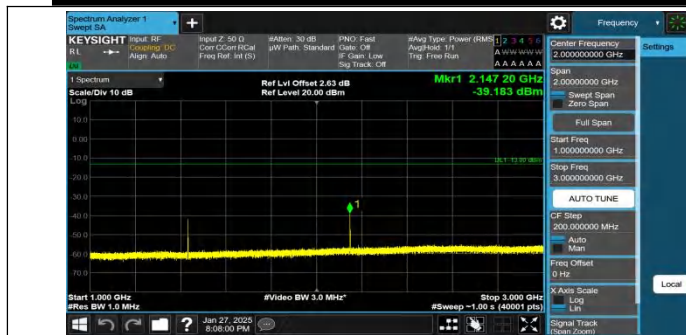


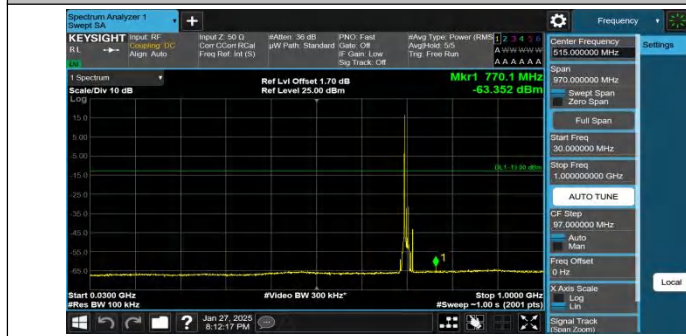
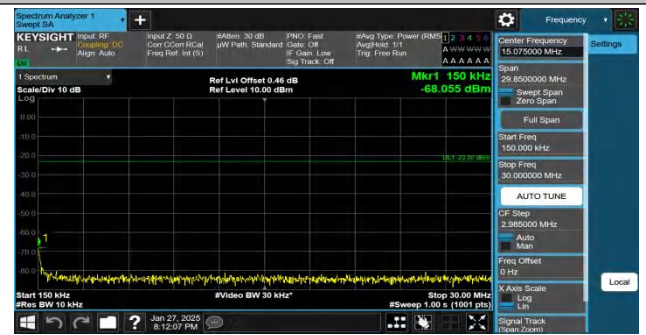
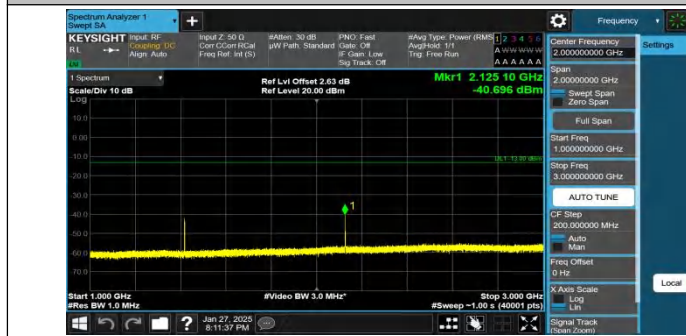
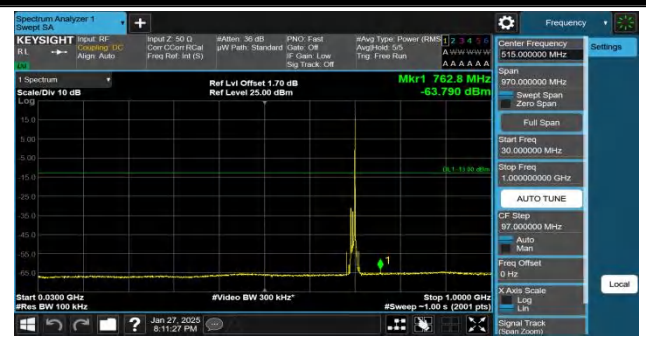
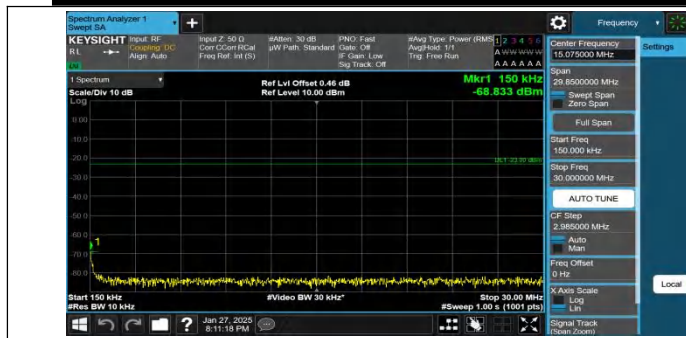


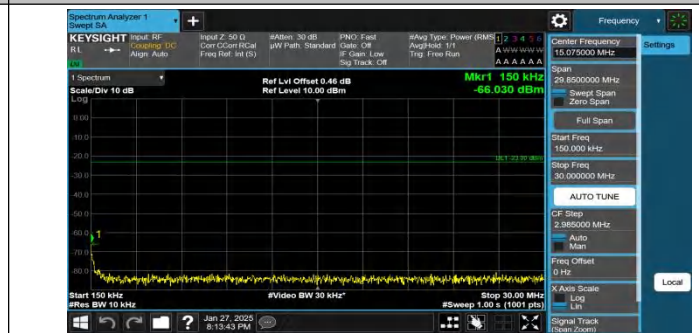
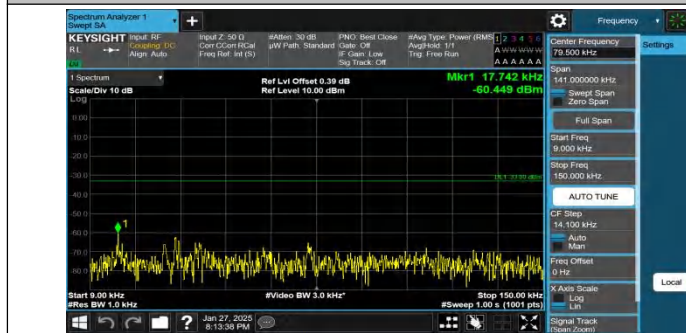
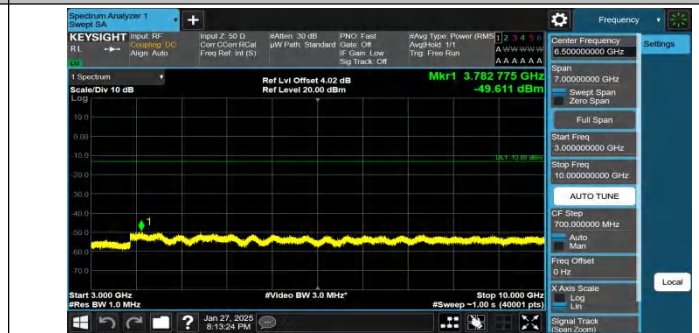
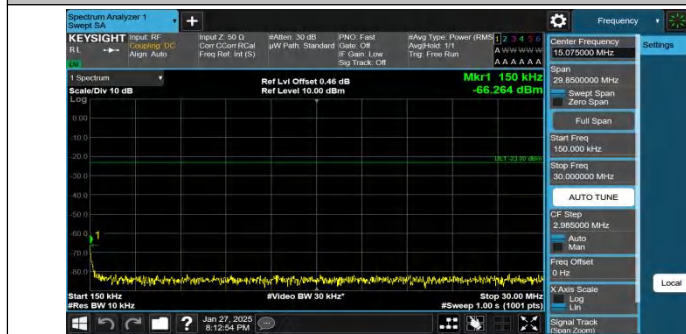
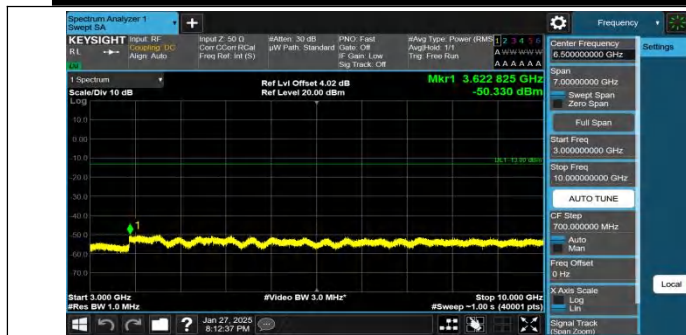


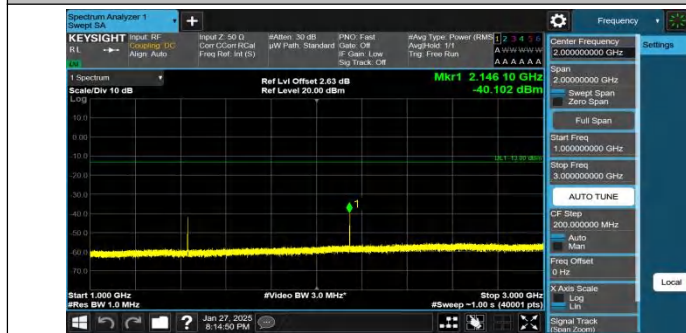
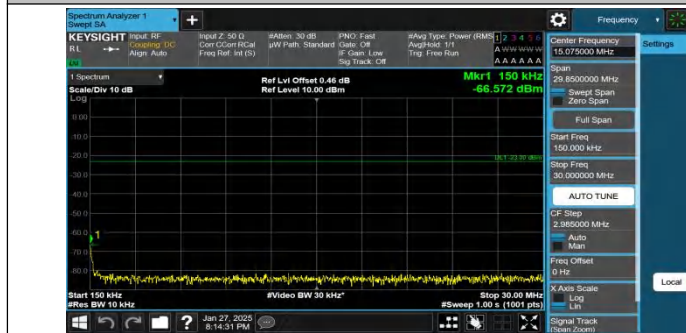
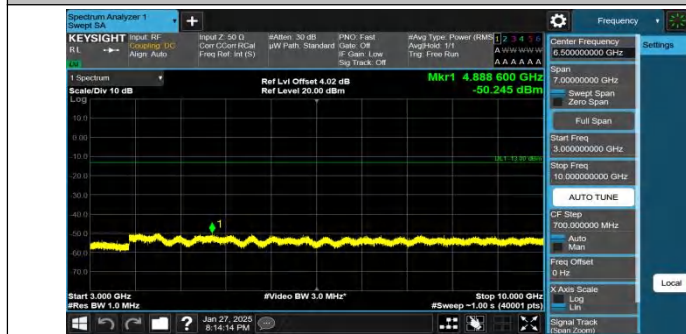












Frequency Stability

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	2120.00	2.996466	±NA	703.04002	711.96422	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VL	NT	4070.00	5.752650	±NA	703.03757	711.97057	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VH	NT	2290.00	3.236749	±NA	703.03804	711.96654	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	480.00	0.678445	±NA	703.03443	711.96653	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-20	2940.00	4.155477	±NA	703.03809	711.96779	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-10	2420.00	3.420495	±NA	703.03847	711.96637	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	0	90.00	0.127208	±NA	703.03384	711.96634	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	10	2210.00	3.123675	±NA	703.03616	711.96826	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	20	3740.00	5.286219	±NA	703.03884	711.96864	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	30	5070.00	7.166078	±NA	703.04047	711.96967	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	40	260.00	0.367491	±NA	703.03521	711.96531	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	50	2270.00	3.208481	±NA	703.03887	711.96567	699-716	PASS

----- THE END -----