

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	23.12	1.7	22.67	34.8	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.54	1.7	22.09	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.32	1.7	22.87	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.02	1.7	22.57	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.08	1.7	22.63	34.8	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.54	1.7	22.09	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.29	1.7	22.84	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.25	1.7	22.8	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.96	1.7	22.51	34.8	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.25	1.7	21.8	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.96	1.7	22.51	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.85	1.7	22.4	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.26	1.7	21.81	34.8	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.43	1.7	20.98	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.43	1.7	21.98	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.33	1.7	21.88	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.59	1.7	22.14	34.8	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.22	1.7	20.77	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.76	1.7	22.31	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.49	1.7	22.04	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.84	1.7	22.39	34.8	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.1	1.7	20.65	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.64	1.7	22.19	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.61	1.7	22.16	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.67	1.7	22.22	34.8	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.47	1.7	22.02	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#8	23	1.7	22.55	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.94	1.7	22.49	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.06	1.7	22.61	34.8	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.49	1.7	22.04	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.2	1.7	22.75	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.09	1.7	22.64	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.91	1.7	22.46	34.8	PASS

Band12	3MHz	QPSK	23165	15RB#0	22.29	1.7	21.84	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.71	1.7	22.26	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.88	1.7	22.43	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.22	1.7	21.77	34.8	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.32	1.7	20.87	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.27	1.7	21.82	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.11	1.7	21.66	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.31	1.7	21.86	34.8	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.51	1.7	21.06	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.97	1.7	21.52	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.07	1.7	21.62	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.86	1.7	22.41	34.8	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.16	1.7	20.71	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.71	1.7	22.26	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.73	1.7	22.28	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.9	1.7	22.45	34.8	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.28	1.7	21.83	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.82	1.7	22.37	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.74	1.7	22.29	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.12	1.7	22.67	34.8	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.43	1.7	21.98	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.17	1.7	22.72	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.91	1.7	22.46	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.85	1.7	22.4	34.8	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.27	1.7	21.82	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.11	1.7	22.66	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.73	1.7	22.28	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.3	1.7	21.85	34.8	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.42	1.7	20.97	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.67	1.7	22.22	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.96	1.7	21.51	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.32	1.7	21.87	34.8	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.43	1.7	20.98	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.49	1.7	22.04	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.32	1.7	21.87	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.28	1.7	21.83	34.8	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.35	1.7	20.9	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.83	1.7	22.38	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.11	1.7	21.66	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.83	1.7	22.38	34.8	PASS

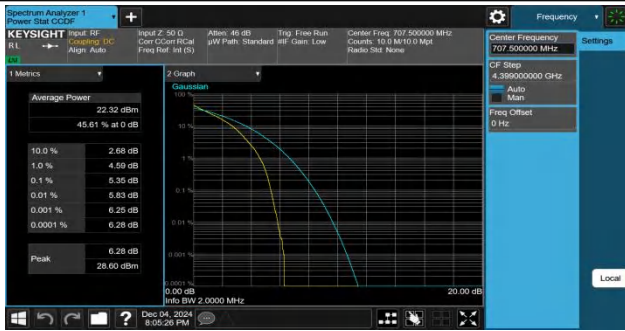
Band12	10MHz	QPSK	23060	50RB#0	22.47	1.7	22.02	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.89	1.7	22.44	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.63	1.7	22.18	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.91	1.7	22.46	34.8	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.38	1.7	21.93	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.37	1.7	22.92	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.81	1.7	22.36	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.99	1.7	22.54	34.8	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.5	1.7	22.05	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.28	1.7	22.83	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.7	1.7	22.25	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.2	1.7	21.75	34.8	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.59	1.7	21.14	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.54	1.7	22.09	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.26	1.7	21.81	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.23	1.7	21.78	34.8	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.34	1.7	20.89	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.72	1.7	22.27	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.12	1.7	21.67	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.72	1.7	22.27	34.8	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.45	1.7	21	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.84	1.7	22.39	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.64	1.7	22.19	34.8	PASS

Peak-to-Average Ratio(CCDF)

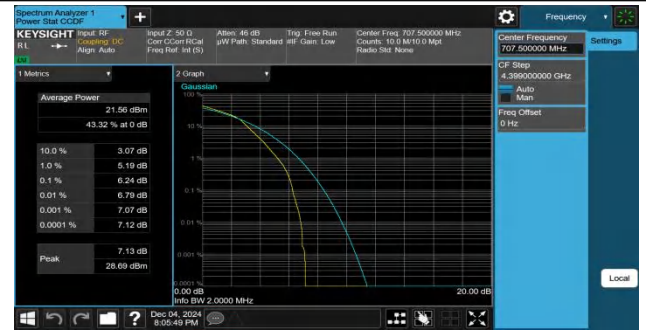
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	5.35	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.24	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.33	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.22	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.26	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.12	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.27	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.12	13	PASS

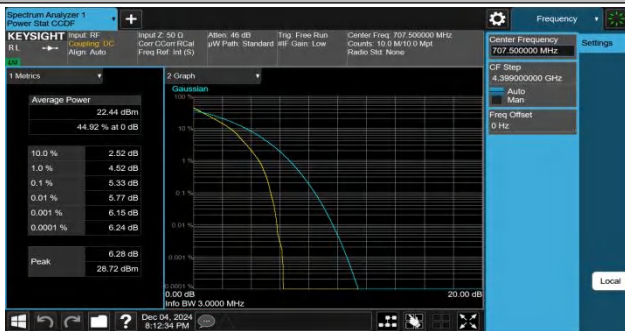
Test Graphs



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



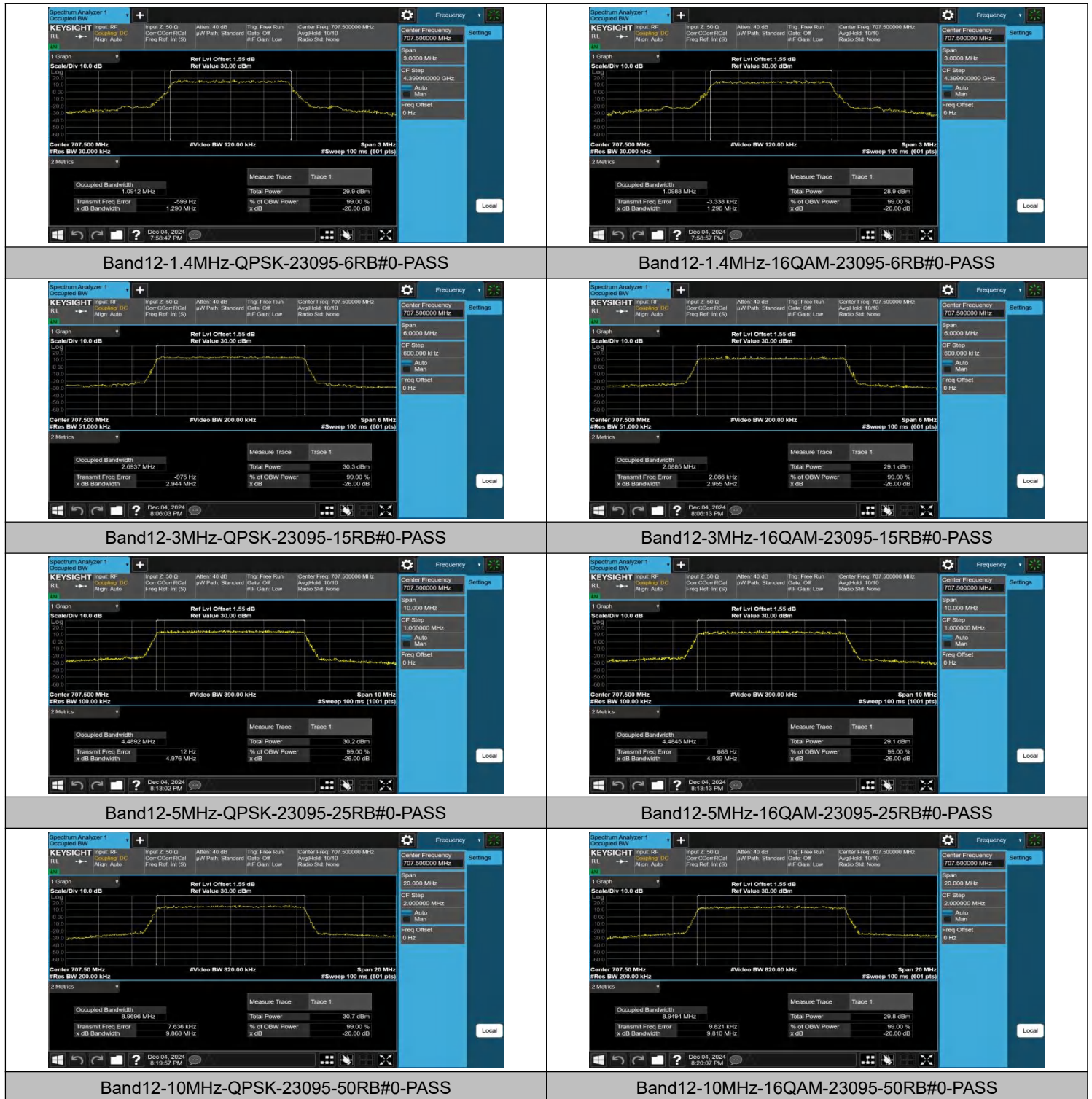
Band12-10MHz-16QAM-23095-50RB#0-PASS

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	1.0912	1.290	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0988	1.296	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6937	2.944	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6885	2.955	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4892	4.976	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4845	4.939	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9696	9.868	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9494	9.810	PASS

Test Graphs



Band Edge

Test Graphs

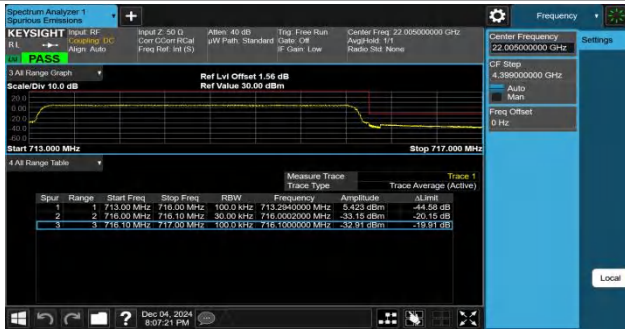




Band12-3MHz-QPSK-23025-1RB#14-PASS



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



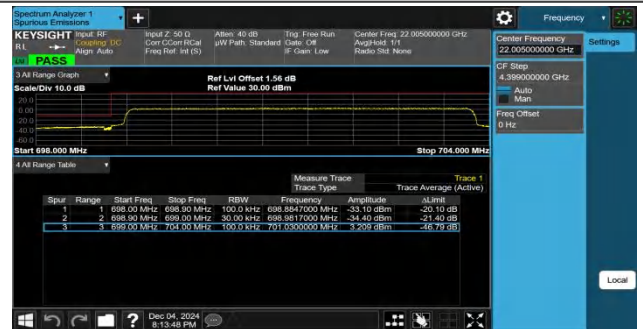
Band12-3MHz-QPSK-23165-15RB#0-PASS



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



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



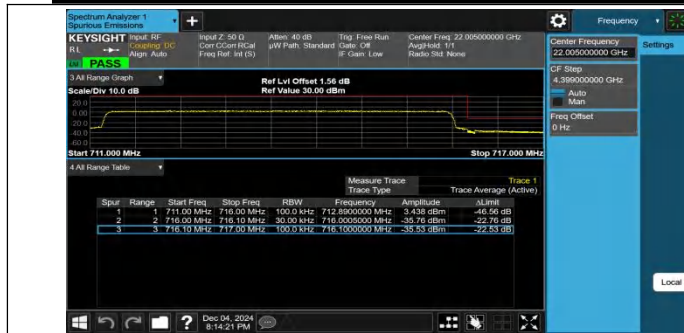
Band12-5MHz-QPSK-23035-25RB#0-PASS



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



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



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



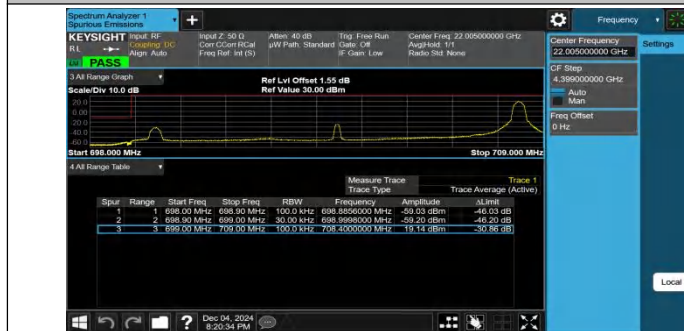
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Band12-10MHz-QPSK-23060-1RB#0-PASS



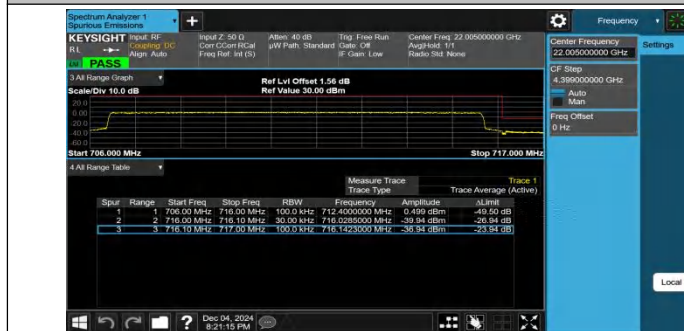
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Band12-10MHz-QPSK-23060-1RB#49-PASS



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



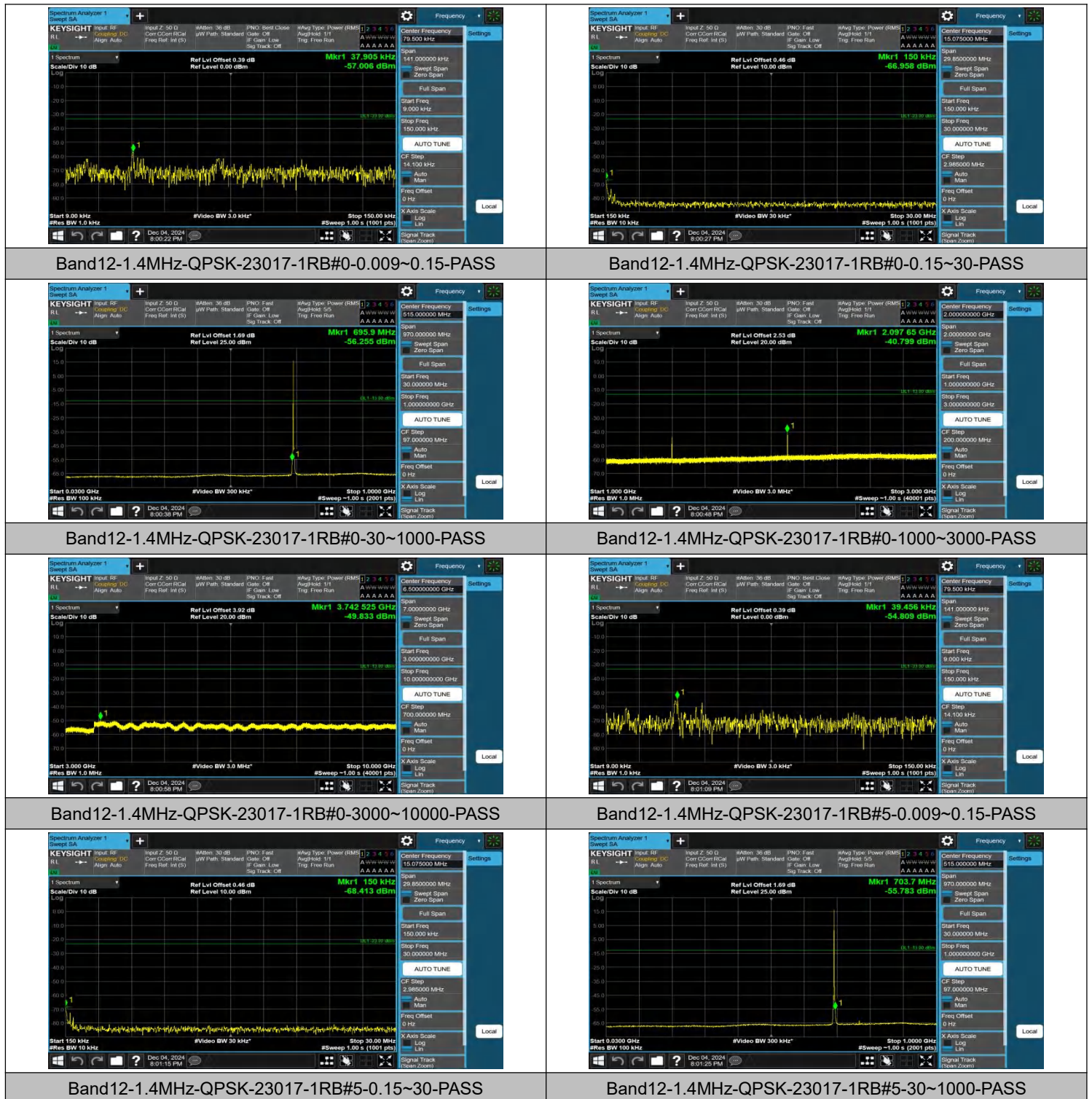
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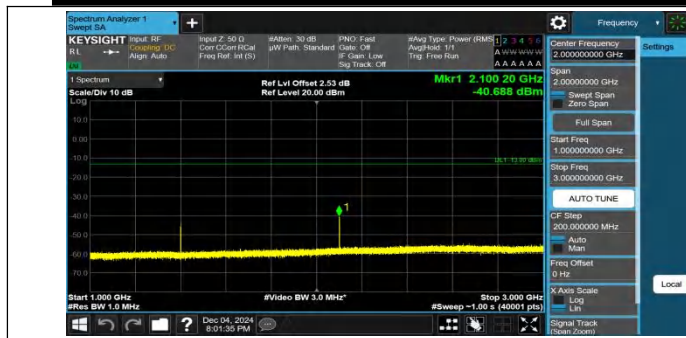


Band12-10MHz-QPSK-23130-1RB#49-PASS

Conducted Spurious Emission

Test Graphs





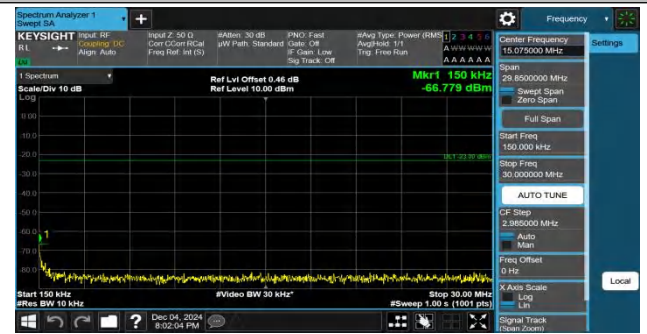
Band12-1.4MHz-QPSK-23017-1RB#5-1000~3000-PASS



Band12-1.4MHz-QPSK-23017-1RB#5-3000~10000-PASS



Band12-1.4MHz-QPSK-23095-1RB#0-0.009~0.15-PASS



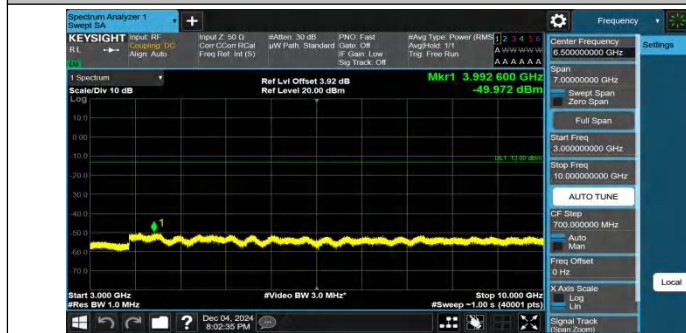
Band12-1.4MHz-QPSK-23095-1RB#0-0.15~30-PASS



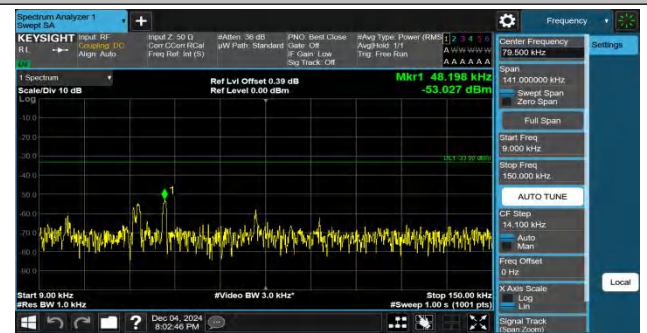
Band12-1.4MHz-QPSK-23095-1RB#0-30~1000-PASS



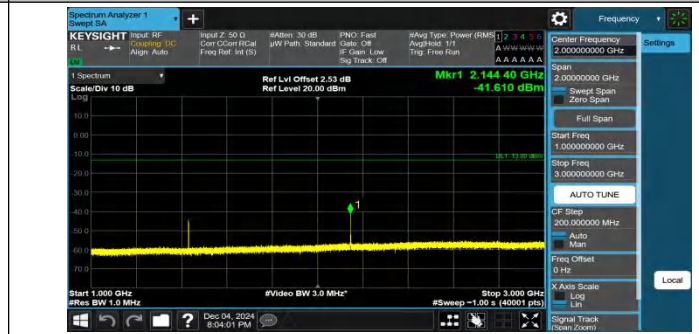
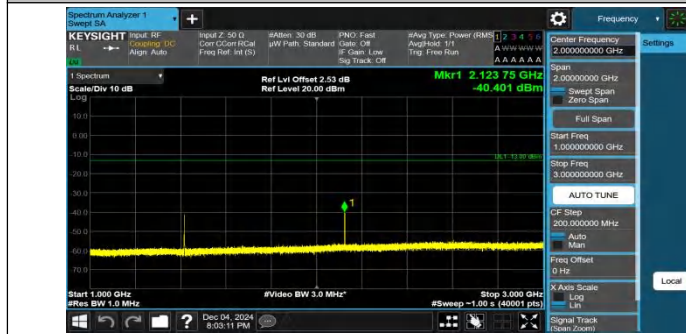
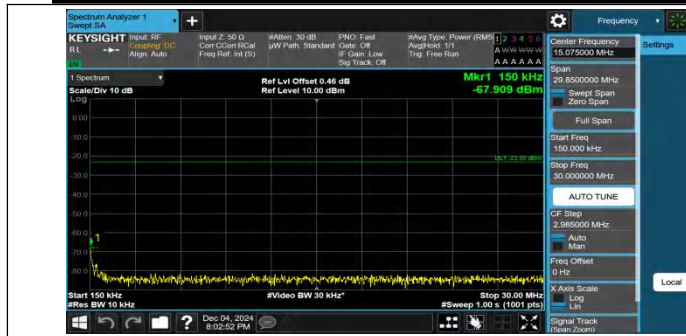
Band12-1.4MHz-QPSK-23095-1RB#0-1000~3000-PASS

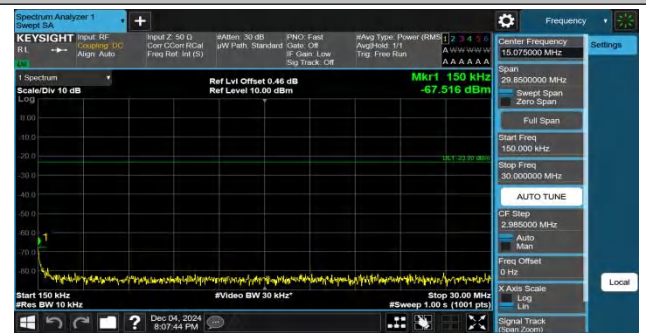
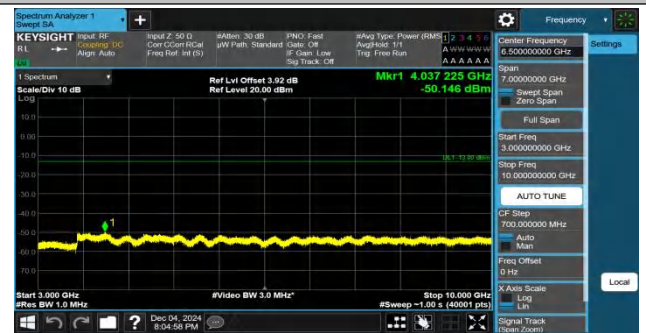
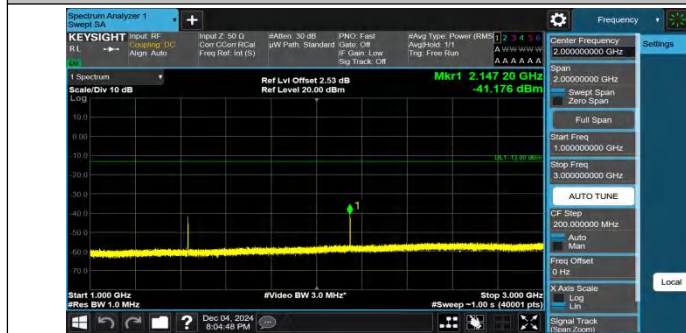
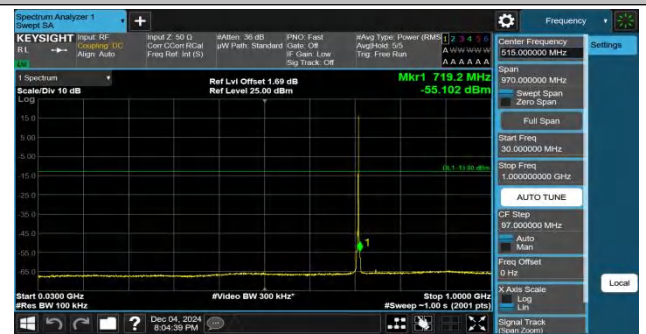
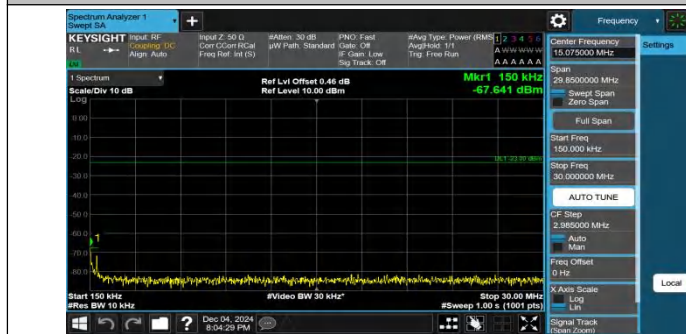
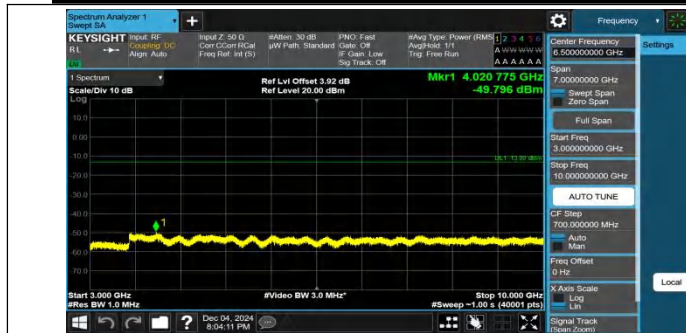


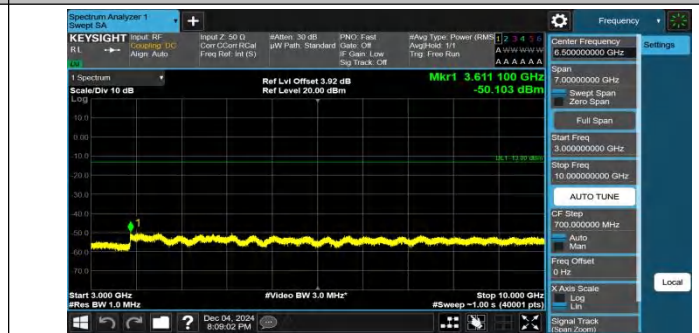
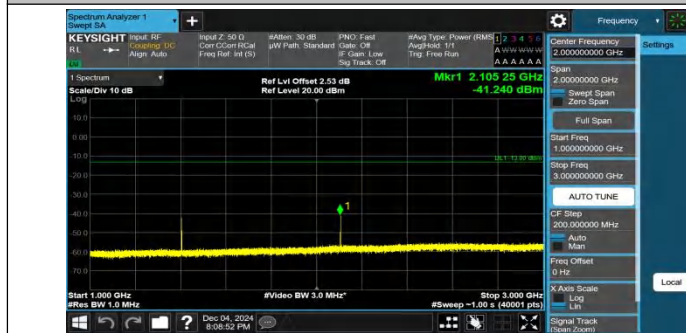
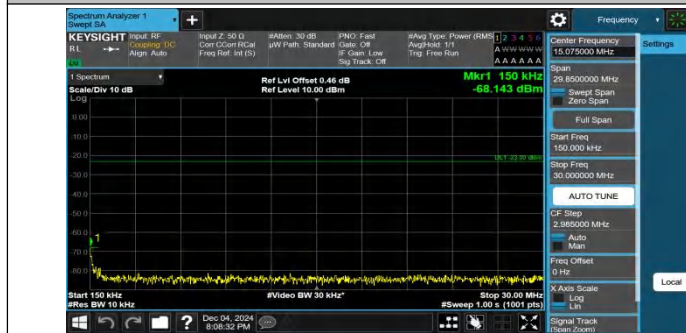
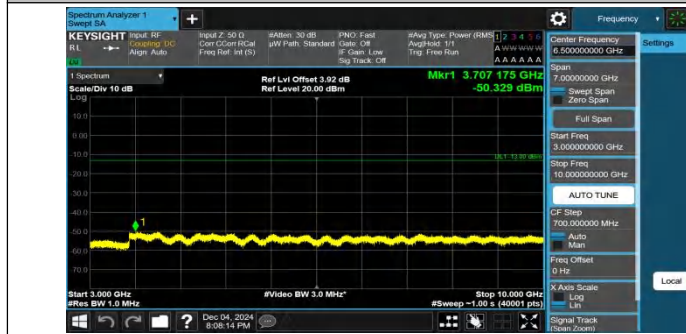
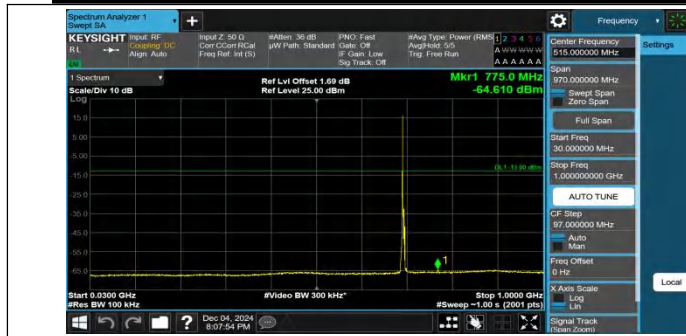
Band12-1.4MHz-QPSK-23095-1RB#0-3000~10000-PASS

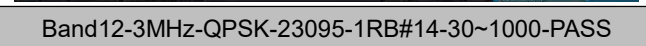
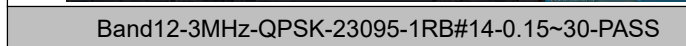
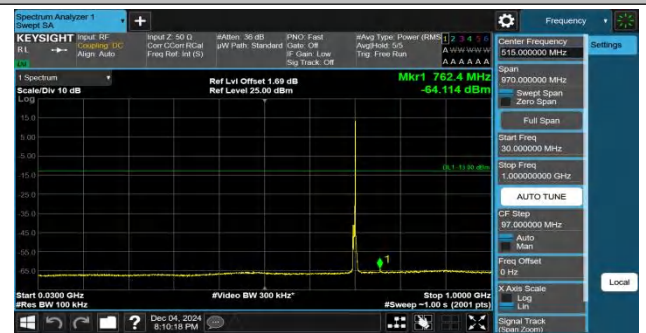
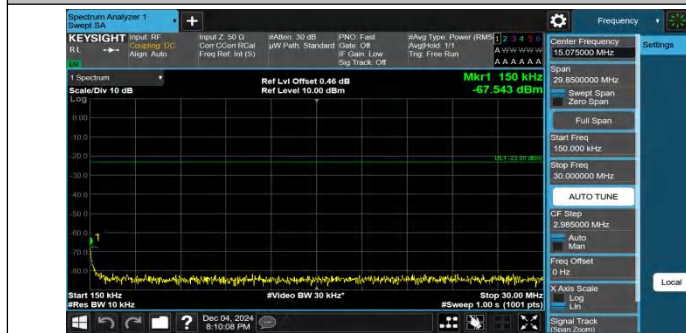
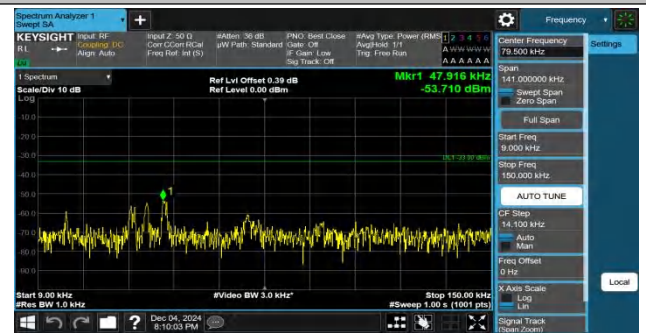
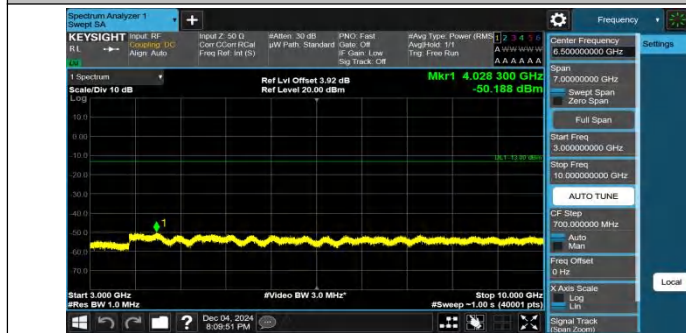
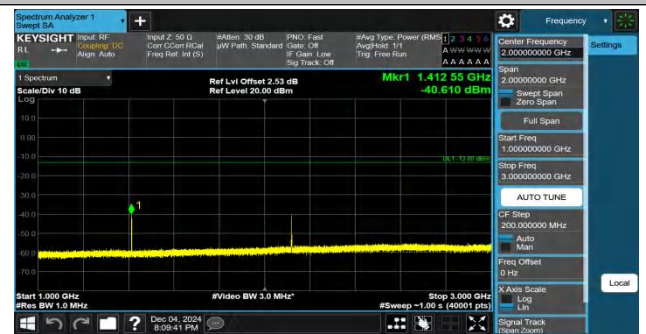
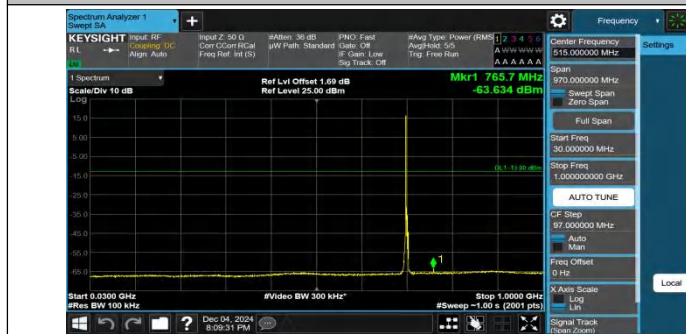
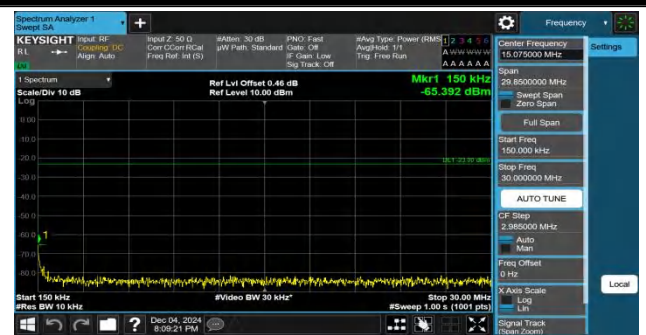


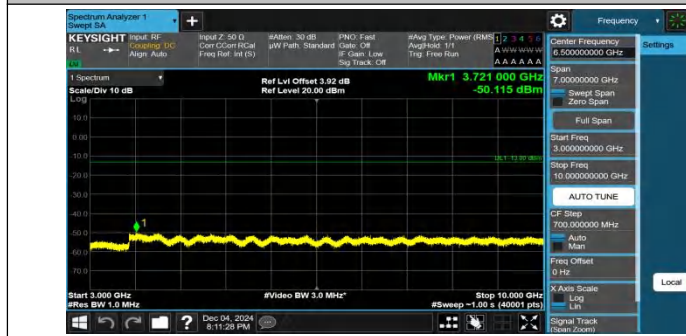
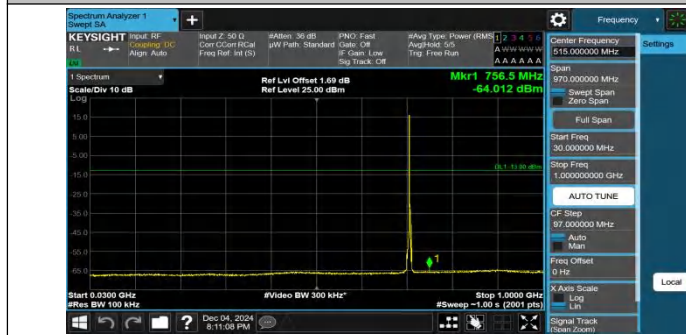
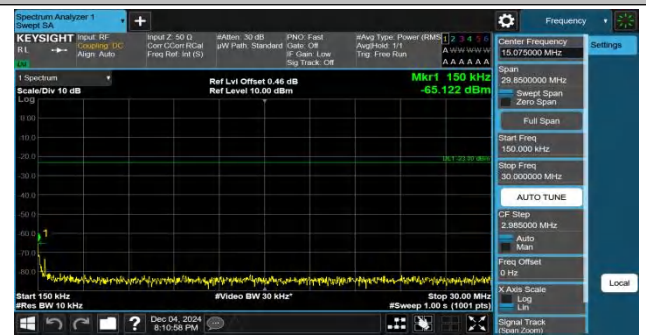
Band12-1.4MHz-QPSK-23095-1RB#5-0.009~0.15-PASS

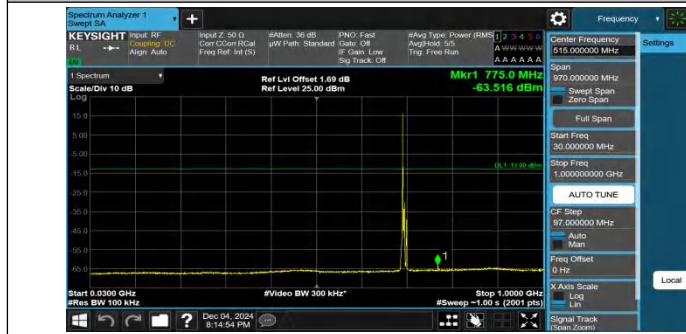
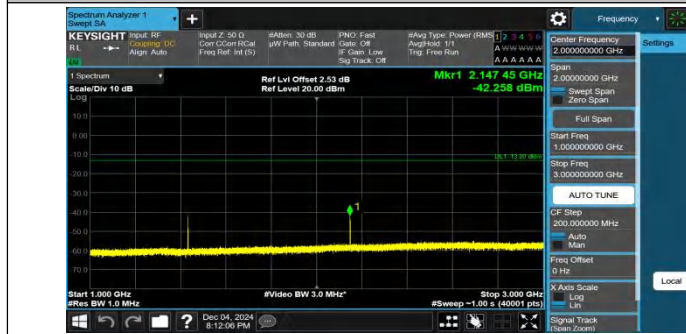
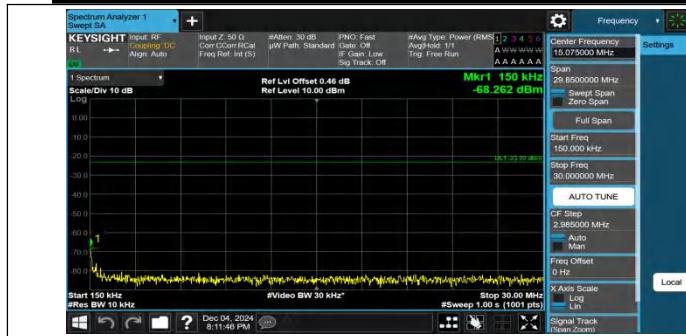


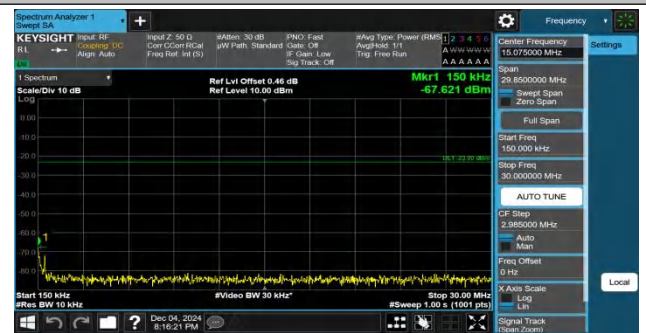
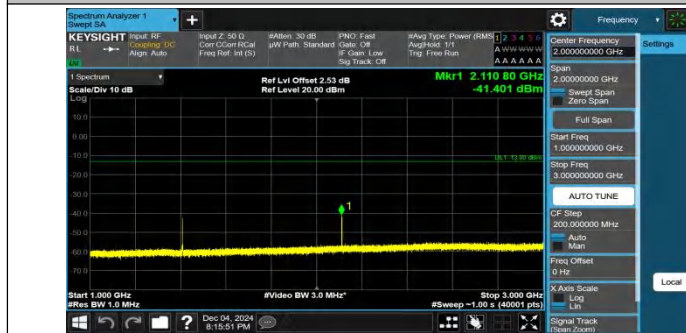
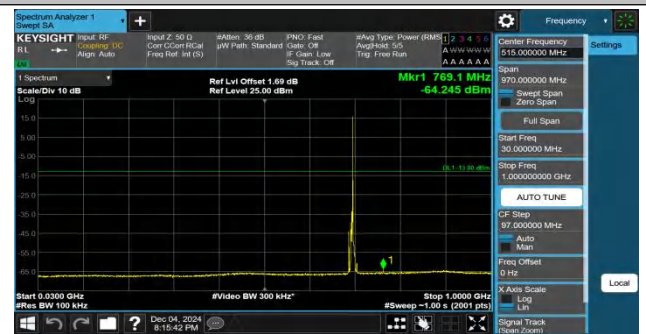
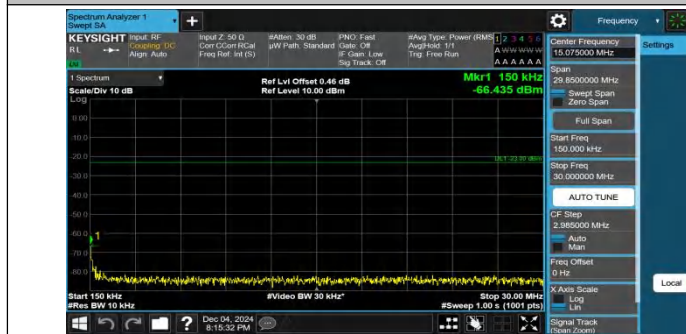
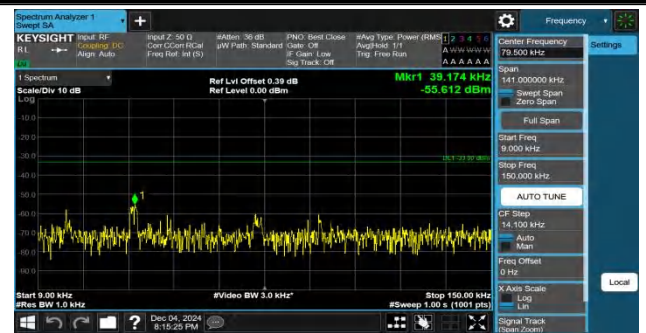
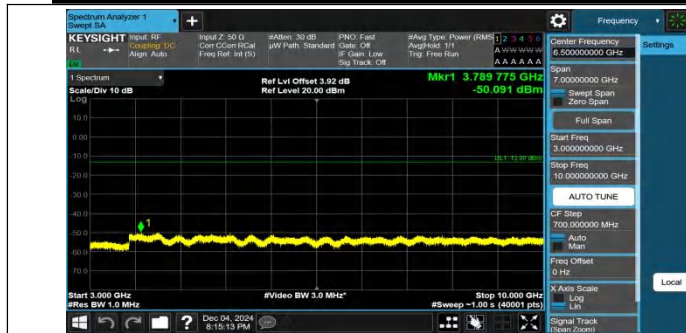


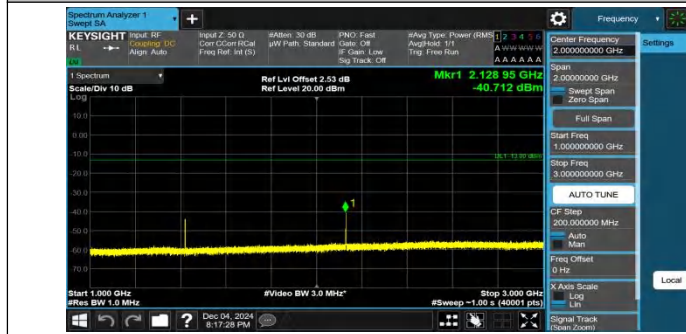
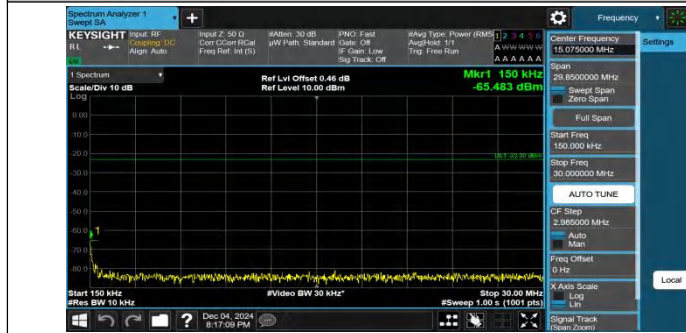
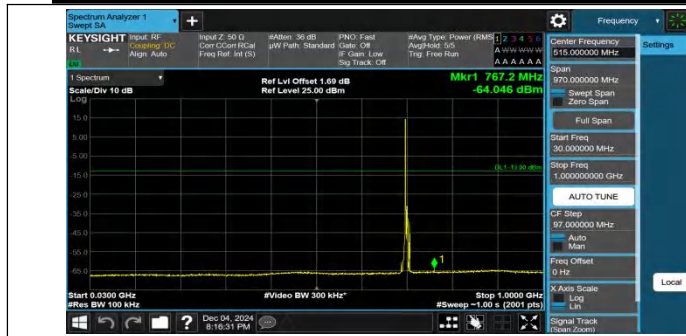


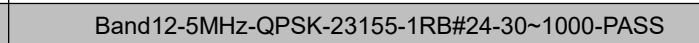
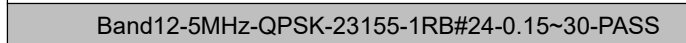
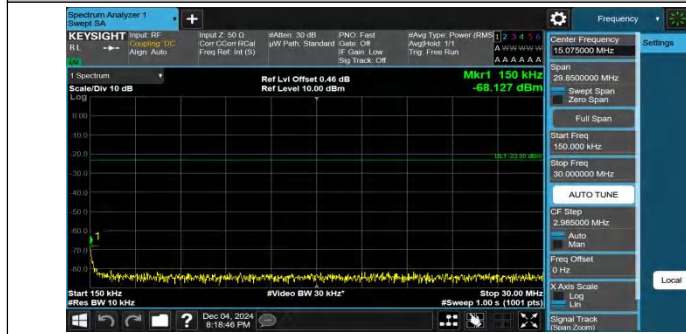
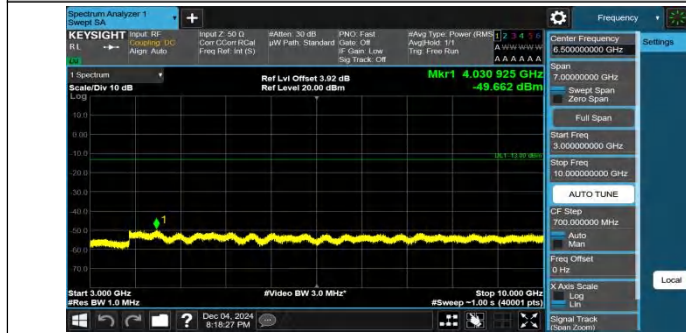
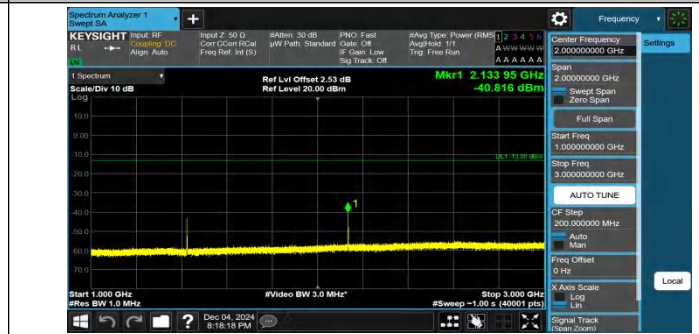
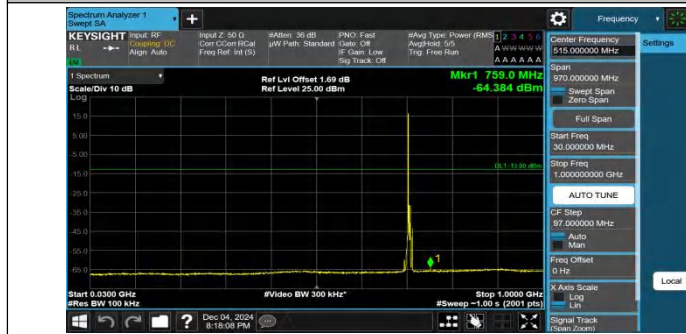


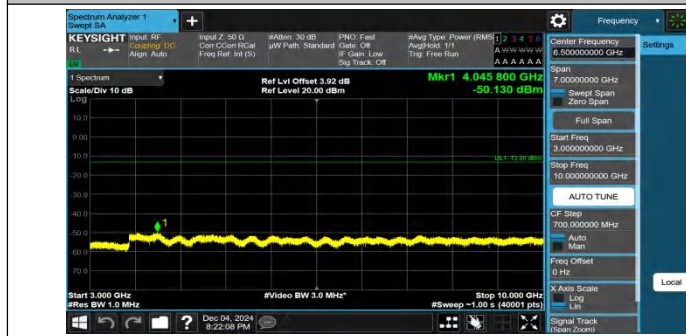
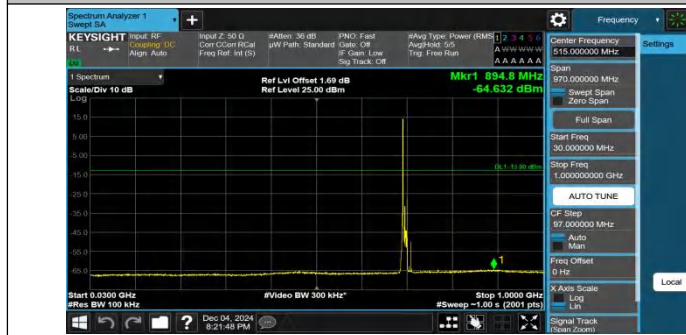
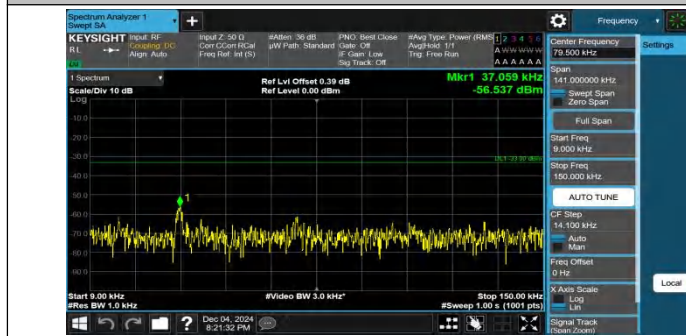
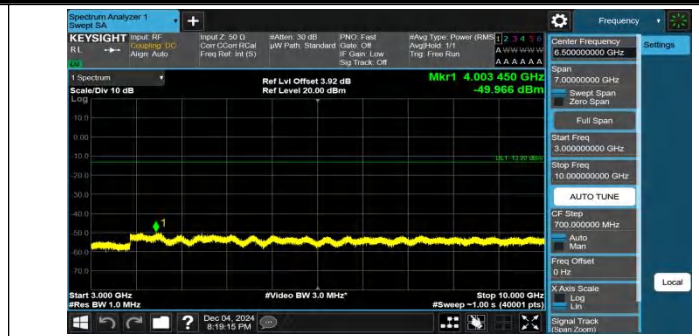


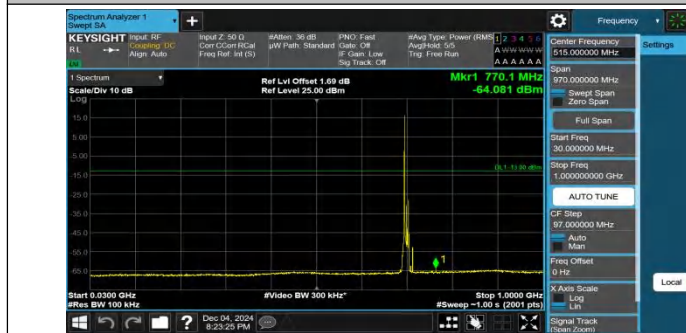
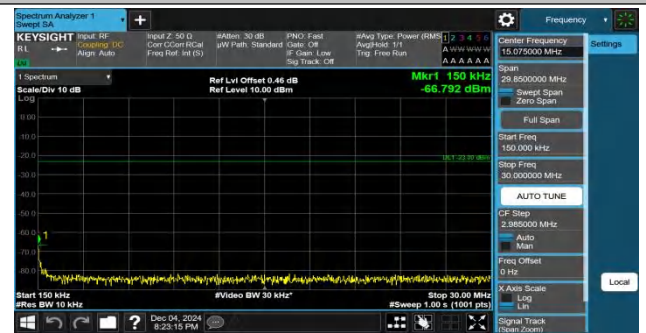
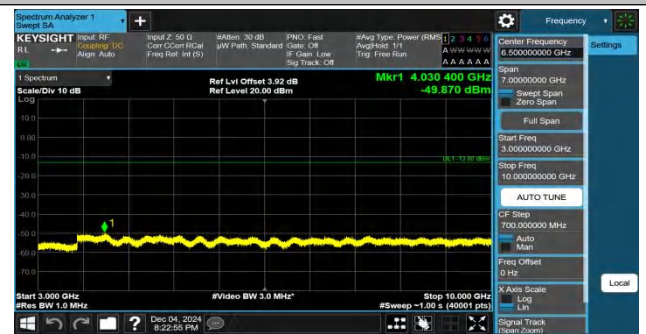
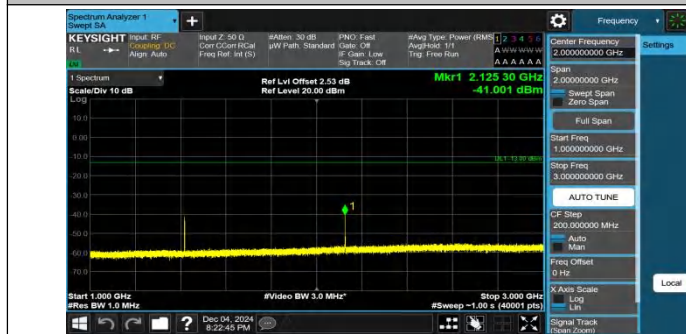
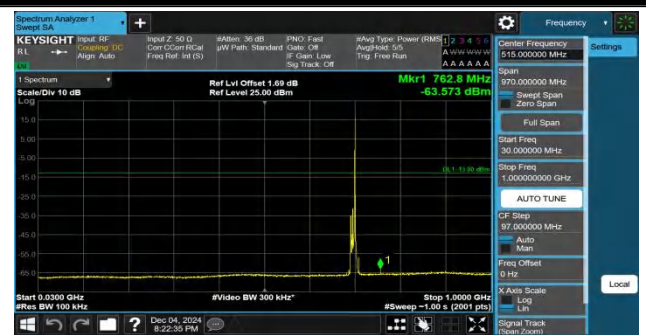


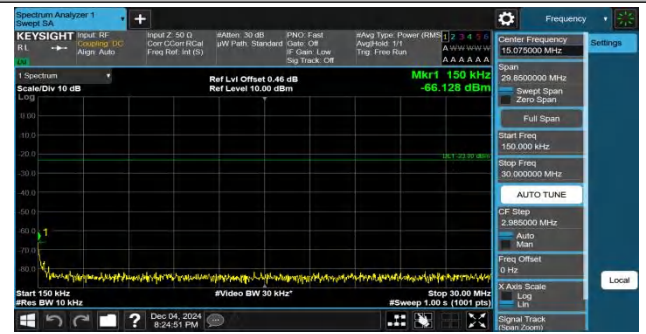
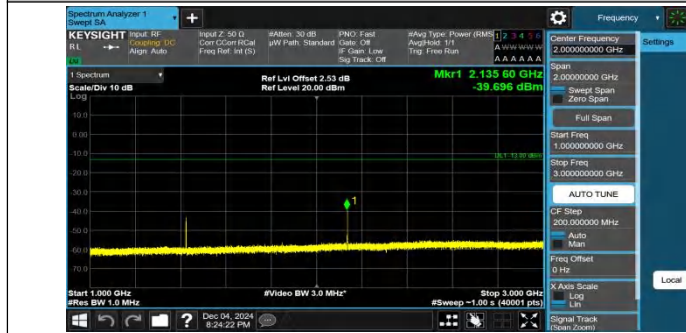
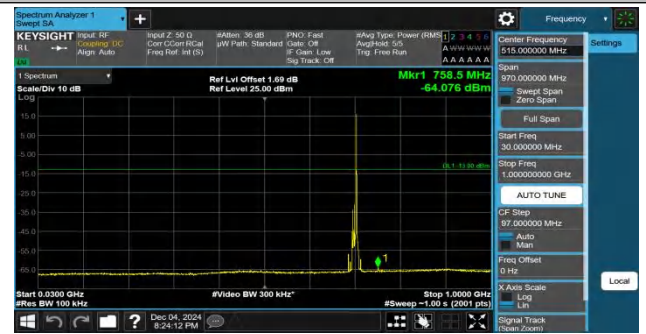
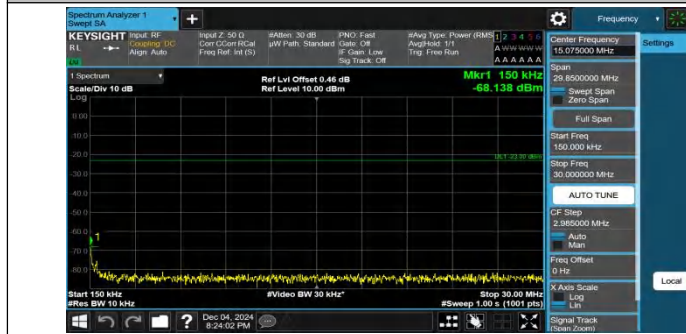


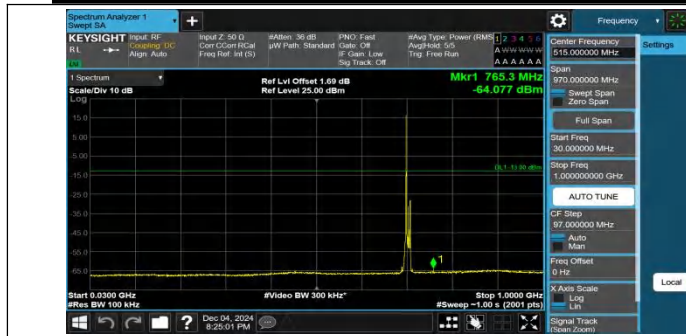








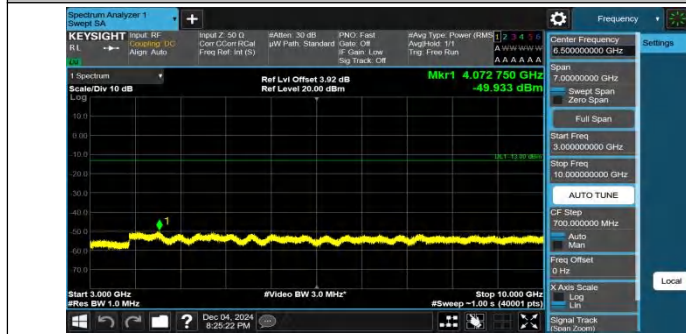




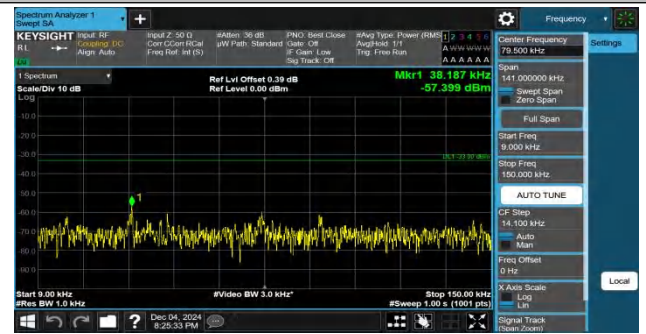
Band12-10MHz-QPSK-23130-1RB#0-30~1000-PASS



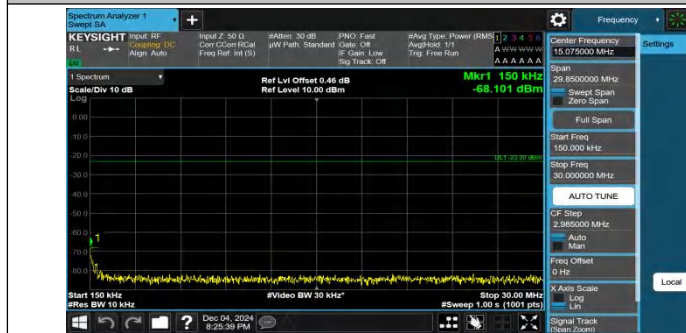
Band12-10MHz-QPSK-23130-1RB#0-1000~3000-PASS



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



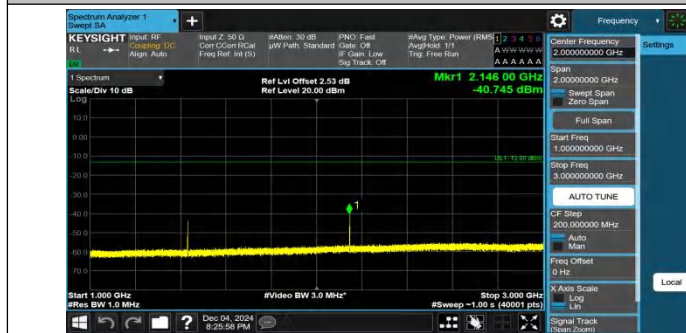
Band12-10MHz-QPSK-23130-1RB#49-0.009~0.15-PASS



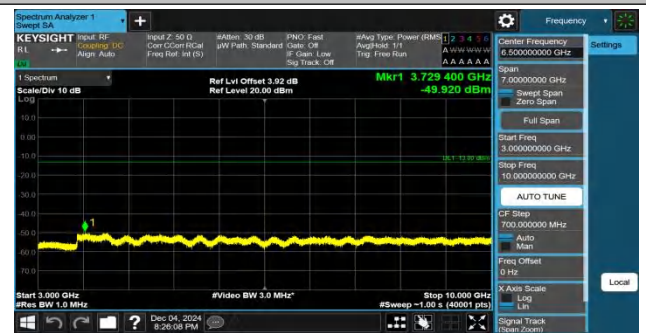
Band12-10MHz-QPSK-23130-1RB#49-0.15~30-PASS



Band12-10MHz-QPSK-23130-1RB#49-30~1000-PASS



Band12-10MHz-QPSK-23130-1RB#49-1000~3000-PASS



Band12-10MHz-QPSK-23130-1RB#49-3000~10000-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	1710.00	2.416961	±NA	703.03651	711.96691	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VL	NT	2850.00	4.028269	±NA	703.0365	711.9692	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VH	NT	2580.00	3.646643	±NA	703.03723	711.96793	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	1290.00	1.823322	±NA	703.03494	711.96764	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-20	4880.00	6.897527	±NA	703.04193	711.96783	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-10	3040.00	4.296820	±NA	703.03434	711.96174	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	0	2780.00	3.929329	±NA	703.03758	711.96798	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	10	2000.00	2.826855	±NA	703.0366	711.9674	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	20	1690.00	2.388693	±NA	703.03699	711.96639	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	30	5380.00	7.604240	±NA	703.04213	711.96863	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	40	4850.00	6.855124	±NA	703.03985	711.96985	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	50	260.00	0.367491	±NA	703.03186	711.96866	699-716	PASS

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