

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	22.38	3.26	23.49	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.54	3.26	23.65	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.6	3.26	23.71	34.8	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.57	3.26	22.68	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.25	3.26	23.36	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.48	3.26	23.59	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.53	3.26	23.64	34.8	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.51	3.26	22.62	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.42	3.26	23.53	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.44	3.26	23.55	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.49	3.26	23.6	34.8	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.65	3.26	22.76	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.5	3.26	22.61	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.58	3.26	22.69	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.65	3.26	22.76	34.8	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.51	3.26	21.62	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.33	3.26	22.44	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.75	3.26	22.86	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.51	3.26	22.62	34.8	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.48	3.26	21.59	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.5	3.26	22.61	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.37	3.26	22.48	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.49	3.26	22.6	34.8	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.71	3.26	21.82	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.1	3.26	23.21	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.64	3.26	23.75	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.41	3.26	23.52	34.8	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.57	3.26	22.68	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.39	3.26	23.5	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.6	3.26	23.71	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.31	3.26	23.42	34.8	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.46	3.26	22.57	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.53	3.26	23.64	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.52	3.26	23.63	34.8	PASS

Band12	3MHz	QPSK	23165	1RB#14	22.38	3.26	23.49	34.8	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.68	3.26	22.79	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.36	3.26	22.47	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.56	3.26	22.67	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.7	3.26	22.81	34.8	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.69	3.26	21.8	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.33	3.26	22.44	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.45	3.26	22.56	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.52	3.26	22.63	34.8	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.6	3.26	21.71	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.58	3.26	22.69	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.77	3.26	22.88	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.4	3.26	22.51	34.8	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.73	3.26	21.84	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.76	3.26	23.87	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.73	3.26	23.84	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.7	3.26	23.81	34.8	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.88	3.26	22.99	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.85	3.26	23.96	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.67	3.26	23.78	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.84	3.26	23.95	34.8	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.85	3.26	22.96	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.81	3.26	23.92	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.82	3.26	23.93	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.63	3.26	23.74	34.8	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.81	3.26	22.92	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.52	3.26	22.63	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.51	3.26	22.62	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.6	3.26	22.71	34.8	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.9	3.26	22.01	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.04	3.26	23.15	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.97	3.26	23.08	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.05	3.26	23.16	34.8	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.87	3.26	21.98	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.81	3.26	22.92	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.71	3.26	22.82	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.66	3.26	22.77	34.8	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.99	3.26	22.1	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.79	3.26	23.9	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.72	3.26	23.83	34.8	PASS

Band12	10MHz	QPSK	23060	1RB#49	22.74	3.26	23.85	34.8	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.88	3.26	22.99	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.96	3.26	24.07	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.63	3.26	23.74	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.95	3.26	24.06	34.8	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.86	3.26	22.97	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.71	3.26	23.82	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.86	3.26	23.97	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.82	3.26	23.93	34.8	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.98	3.26	23.09	34.8	PASS
Band12	10MHz	16QAM	23060	27RB#0	20.92	3.26	22.03	34.8	PASS
Band12	10MHz	16QAM	23095	27RB#0	20.78	3.26	21.89	34.8	PASS
Band12	10MHz	16QAM	23130	27RB#0	20.84	3.26	21.95	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.19	3.26	23.3	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.78	3.26	22.89	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.09	3.26	23.2	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.92	3.26	23.03	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.9	3.26	23.01	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.95	3.26	23.06	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.81	3.26	22.92	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.69	3.26	22.8	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.84	3.26	22.95	34.8	PASS

Peak-to-Average Ratio(CCDF)

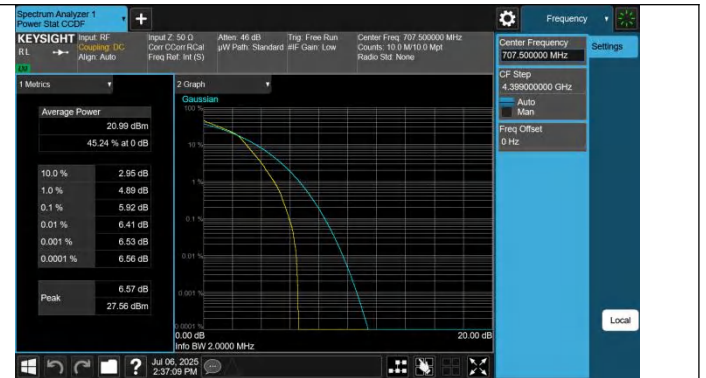
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	5.25	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.92	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.36	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.12	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.33	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.94	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.27	13	PASS
Band12	10MHz	16QAM	23095	27RB#0	5.97	13	PASS

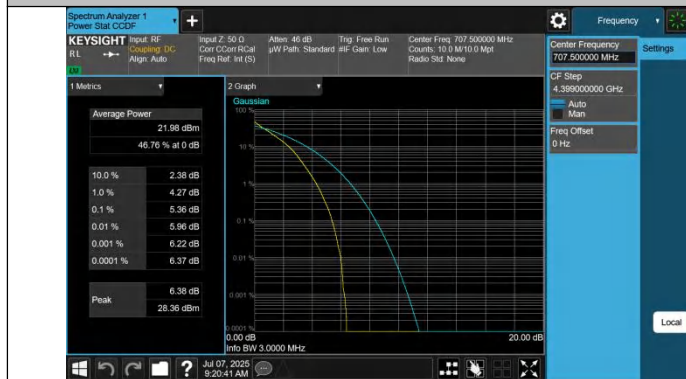
Test Graphs



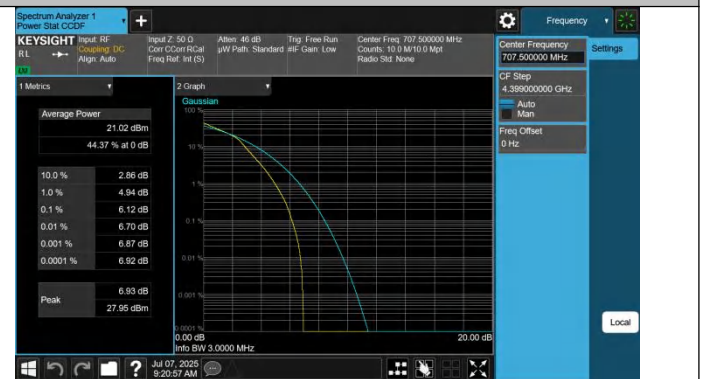
Band12-1.4MHz-QPSK-23095-6RB#0-PASS



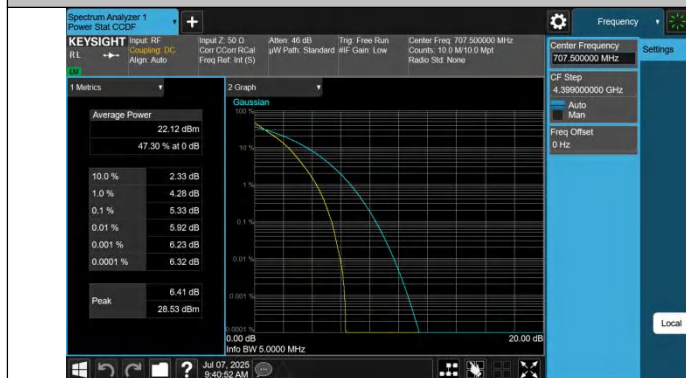
Band12-1.4MHz-16QAM-23095-6RB#0-PASS



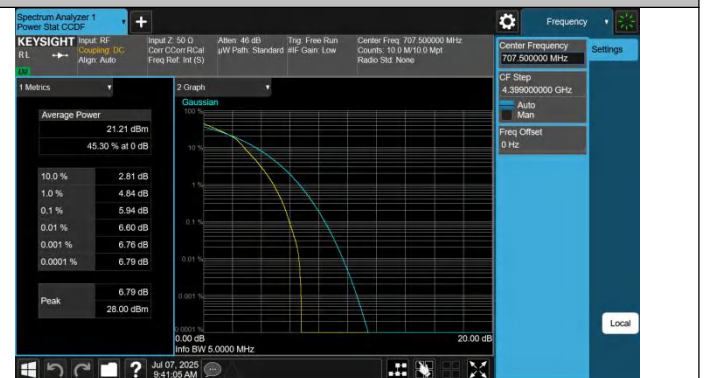
Band12-3MHz-QPSK-23095-15RB#0-PASS



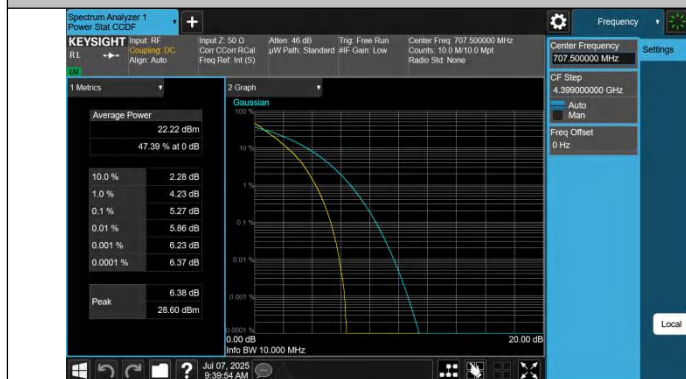
Band12-3MHz-16QAM-23095-15RB#0-PASS



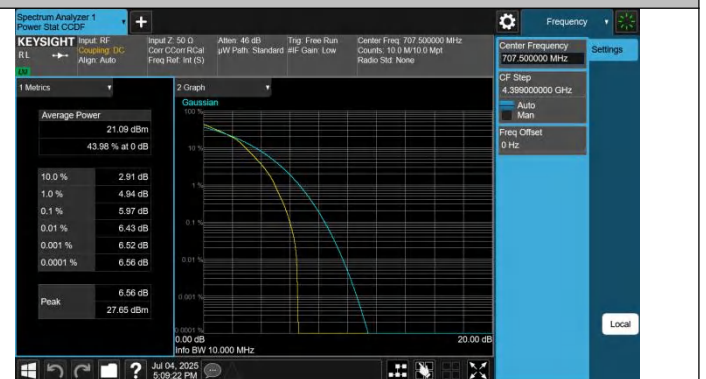
Band12-5MHz-QPSK-23095-25RB#0-PASS



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



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



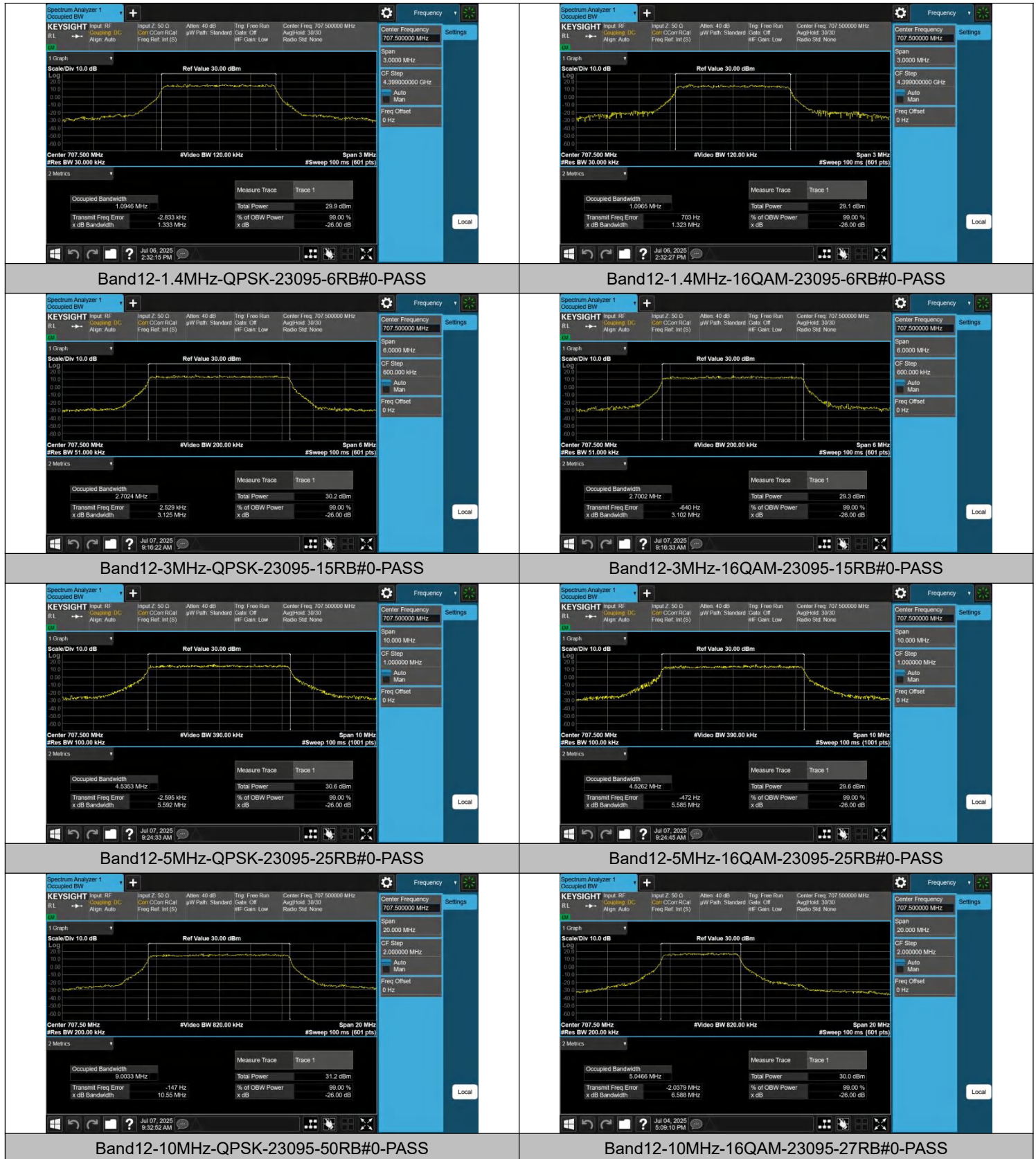
Band12-10MHz-16QAM-23095-27RB#0-PASS

26dB Bandwidth and Occupied Bandwidth

Test Result

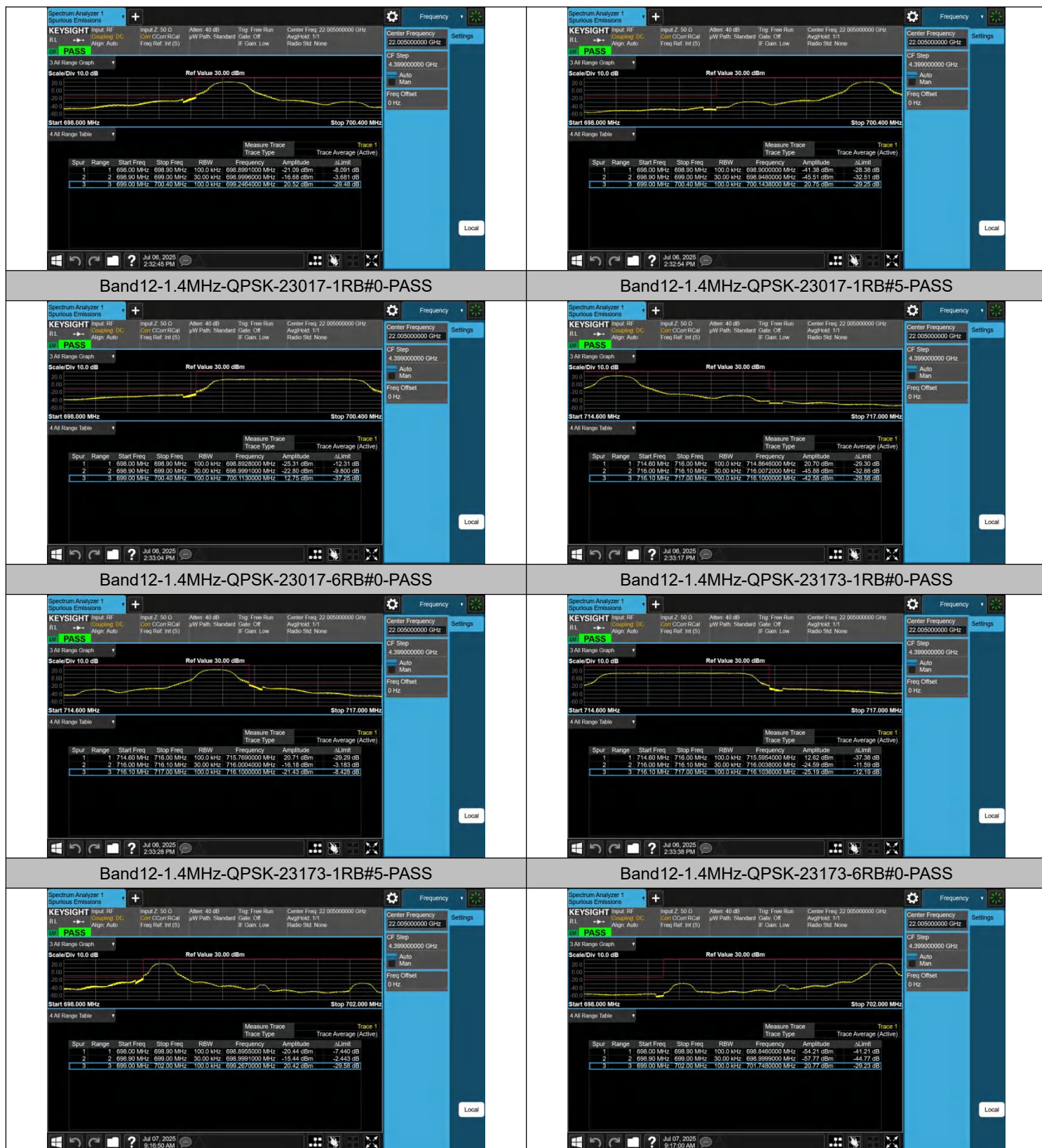
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	1.0946	1.333	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0965	1.323	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7024	3.125	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7002	3.102	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5353	5.592	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5262	5.585	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0033	10.55	PASS
Band12	10MHz	16QAM	23095	27RB#0	5.0466	6.588	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



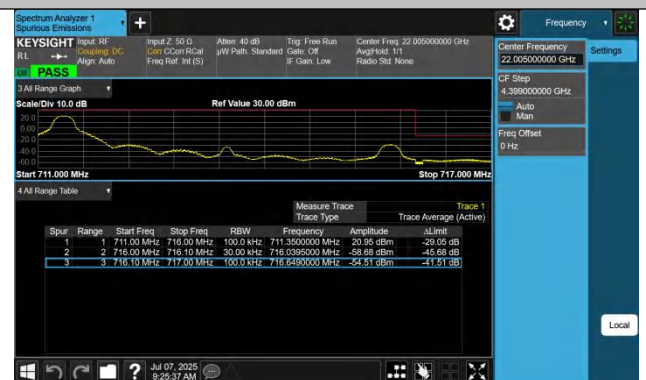
Band12-3MHz-QPSK-23165-15RB#0-PASS



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

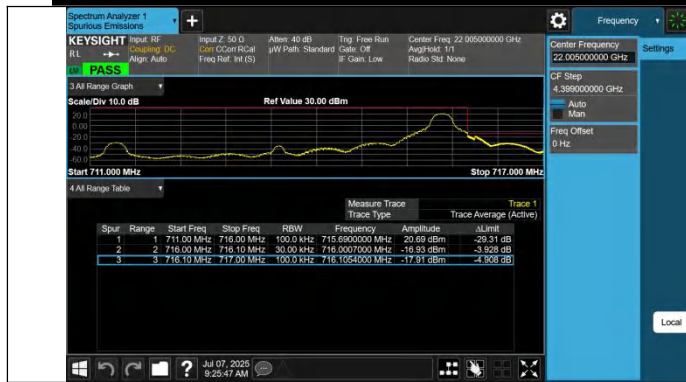


Band12-5MHz-QPSK-23035-1RB#24-PASS



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



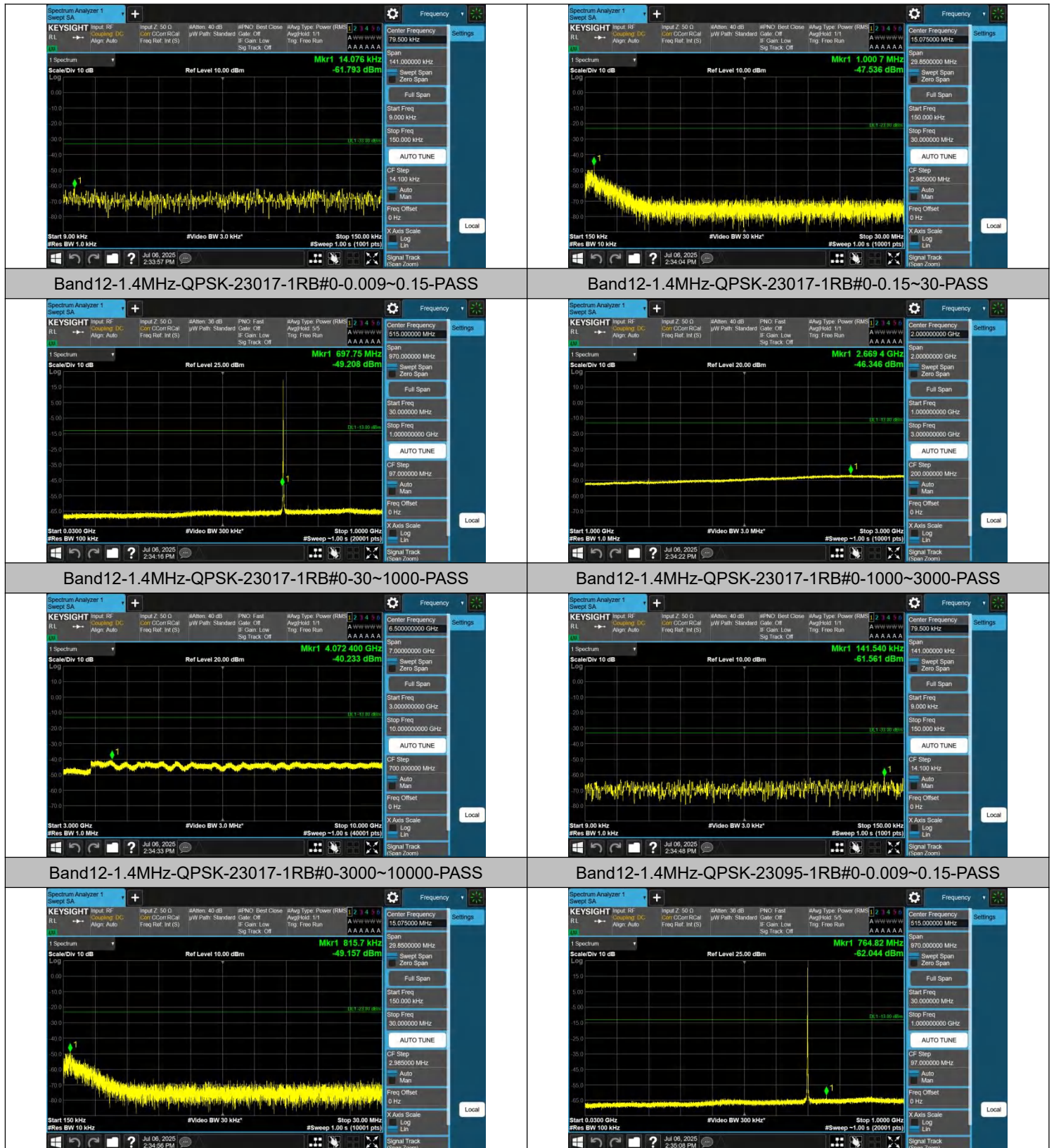
Band12-10MHz-QPSK-23130-1RB#49-PASS



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

Conducted Spurious Emission

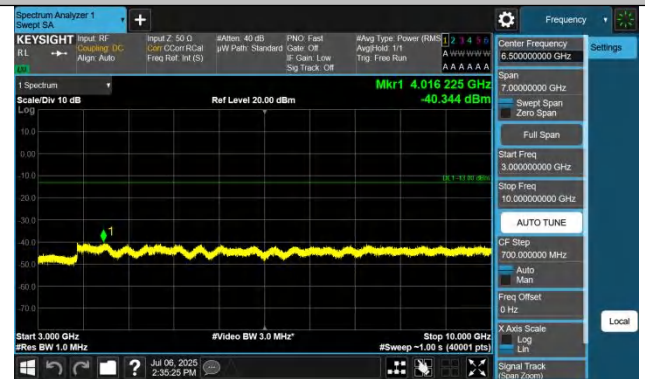
Test Graphs



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



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



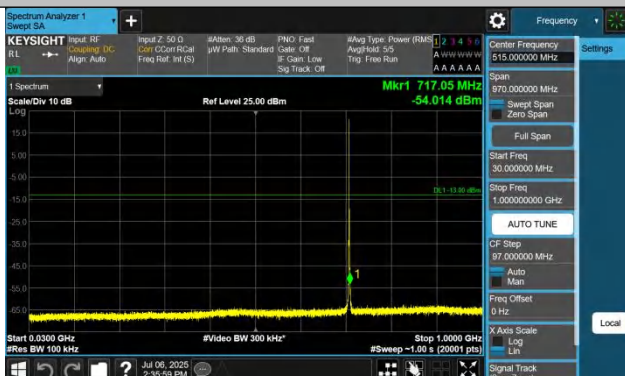
Band12-1.4MHz-QPSK-23095-1RB#0-1000~3000-PASS



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



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



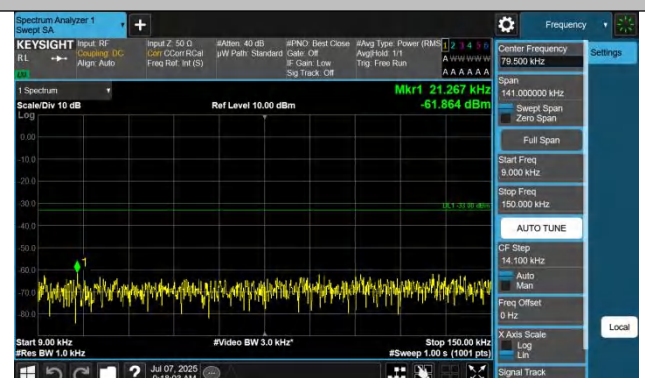
Band12-1.4MHz-QPSK-23173-1RB#0-0.15~30-PASS



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

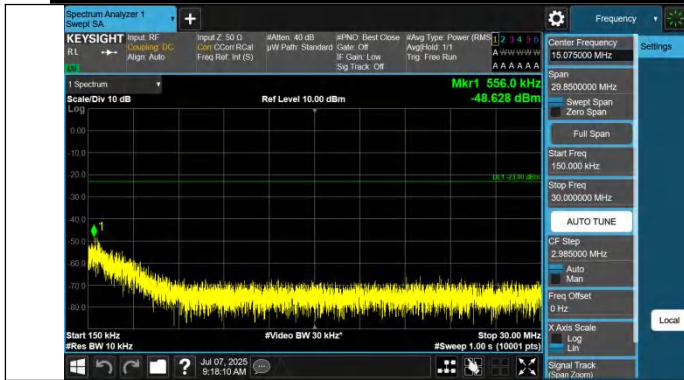


Band12-1.4MHz-QPSK-23173-1RB#0-1000~3000-PASS

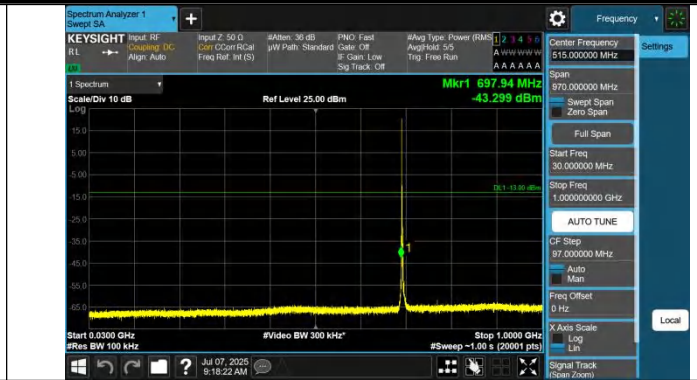


Band12-1.4MHz-QPSK-23173-1RB#0-3000~10000-PASS

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



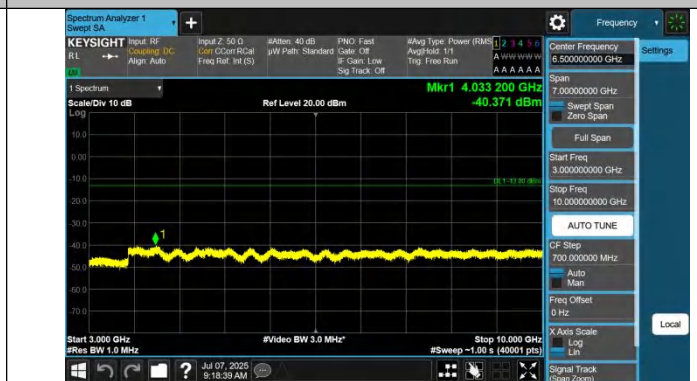
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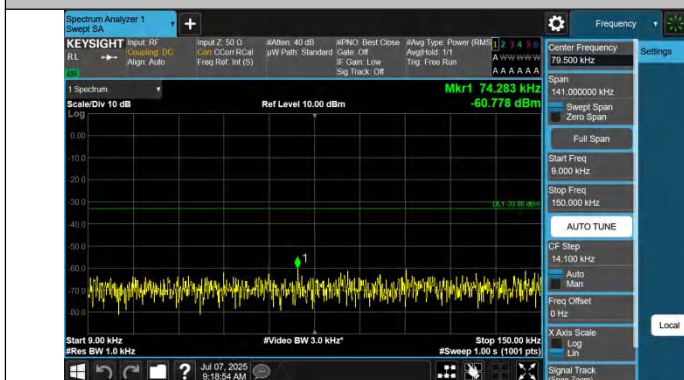
Band12-3MHz-QPSK-23025-1RB#0-30~1000-PASS



Band12-3MHz-QPSK-23025-1RB#0-1000~3000-PASS



Band12-3MHz-QPSK-23025-1RB#0-3000~10000-PASS



Band12-3MHz-QPSK-23095-1RB#0-0.009~0.15-PASS



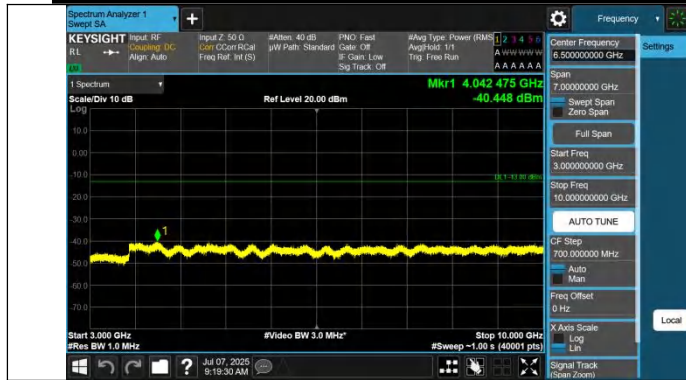
Band12-3MHz-QPSK-23095-1RB#0-0.15~30-PASS



Band12-3MHz-QPSK-23095-1RB#0-30~1000-PASS



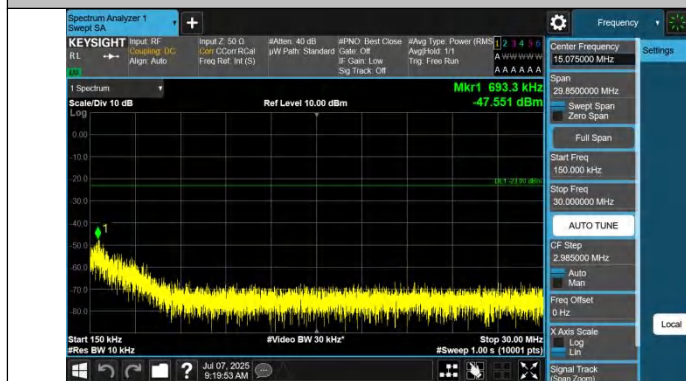
Band12-3MHz-QPSK-23095-1RB#0-1000~3000-PASS



Band12-3MHz-QPSK-23095-1RB#0-3000~10000-PASS



Band12-3MHz-QPSK-23165-1RB#0-0.009~0.15-PASS



Band12-3MHz-QPSK-23165-1RB#0-0.15~30-PASS



Band12-3MHz-QPSK-23165-1RB#0-30~1000-PASS



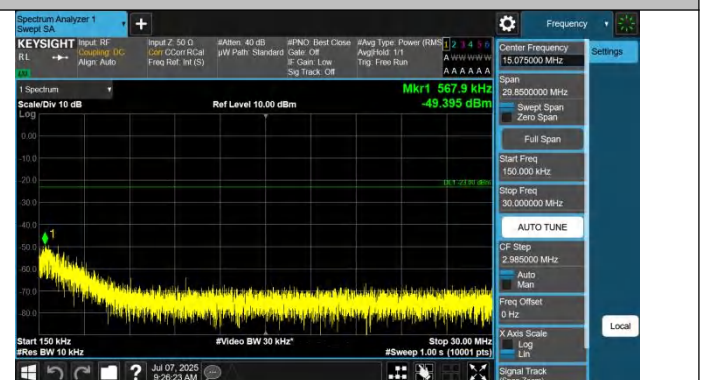
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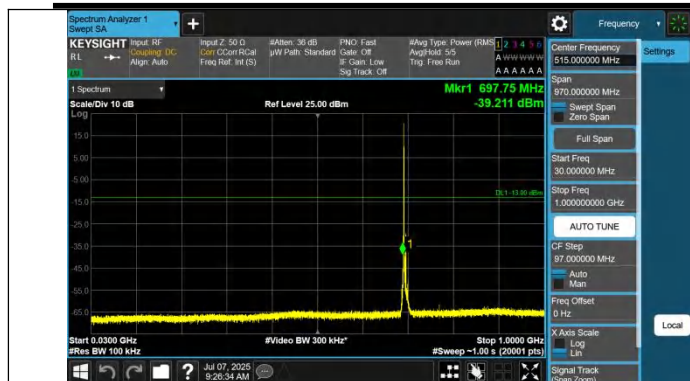
Band12-3MHz-QPSK-23165-1RB#0-3000~10000-PASS



Band12-5MHz-QPSK-23035-1RB#0-0.009~0.15-PASS



Band12-5MHz-QPSK-23035-1RB#0-0.15~30-PASS



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



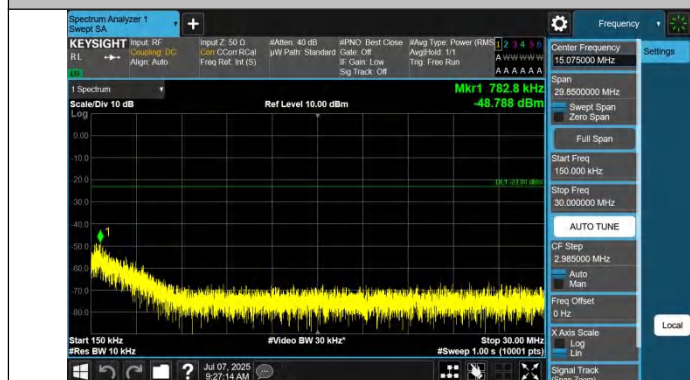
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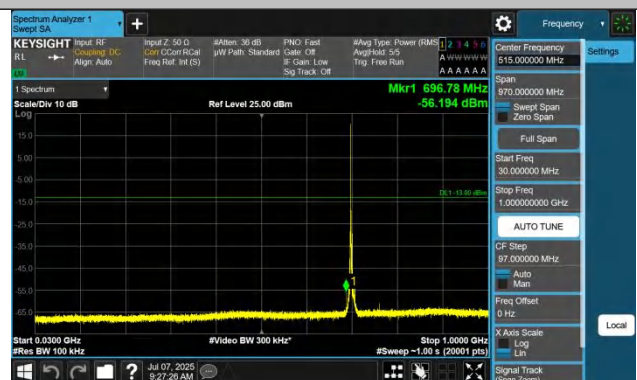
Band12-5MHz-QPSK-23035-1RB#0-3000~10000-PASS



Band12-5MHz-QPSK-23035-1RB#0-0.009~0.15-PASS



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



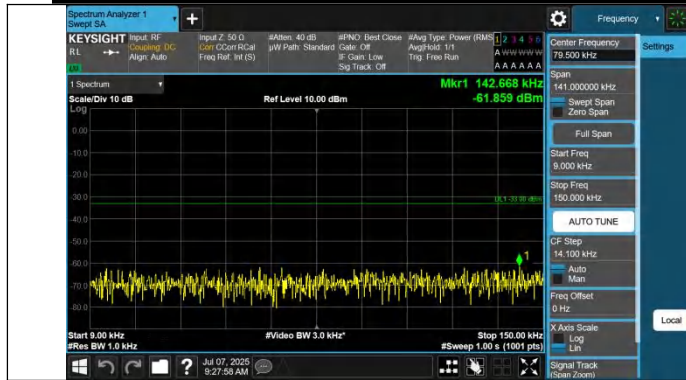
Band12-5MHz-QPSK-23095-1RB#0-30~1000-PASS



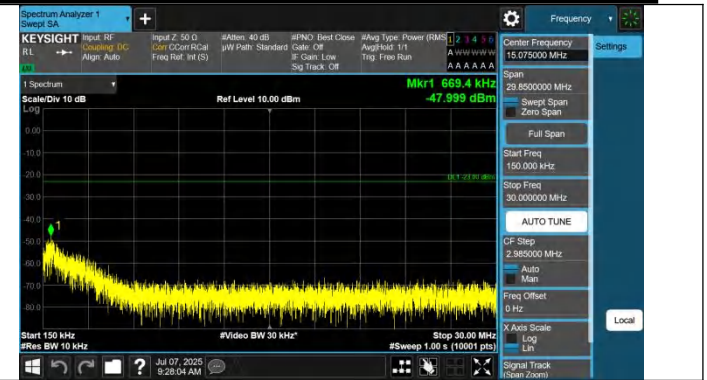
Band12-5MHz-QPSK-23095-1RB#0-1000~3000-PASS



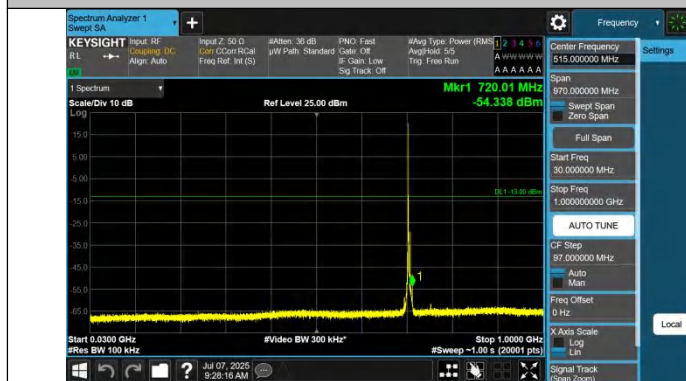
Band12-5MHz-QPSK-23095-1RB#0-3000~10000-PASS



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



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



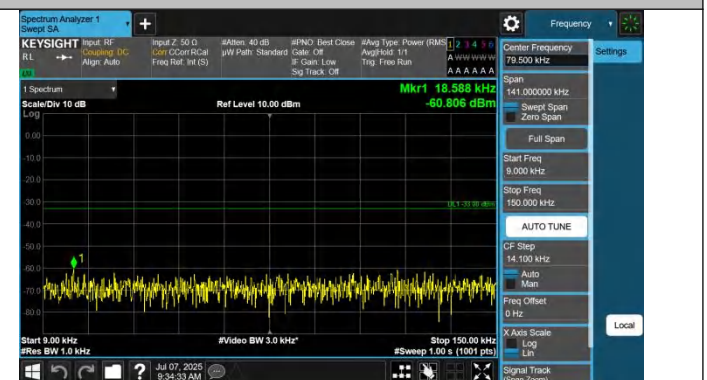
Band12-5MHz-QPSK-23155-1RB#0-30~1000-PASS



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



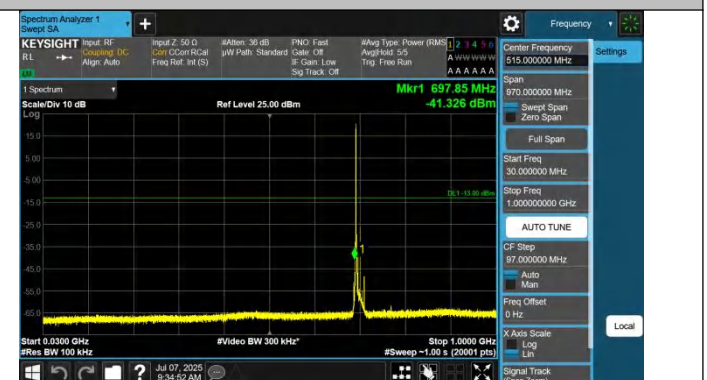
Band12-5MHz-QPSK-23155-1RB#0-3000~10000-PASS



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



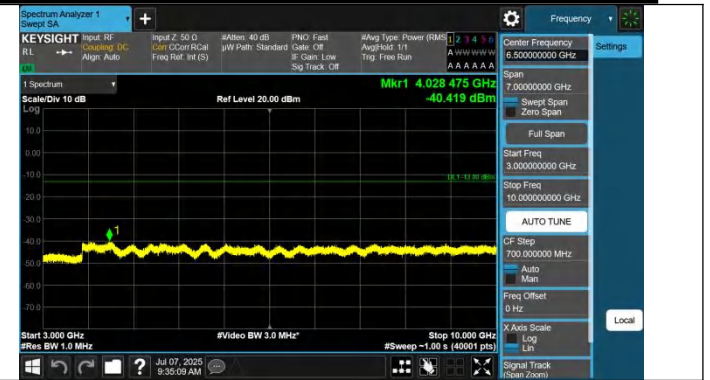
Band12-10MHz-QPSK-23060-1RB#0-0.15~30-PASS



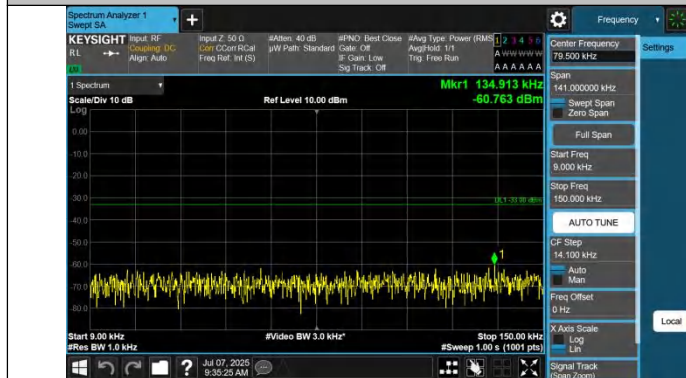
Band12-10MHz-QPSK-23060-1RB#0-30~1000-PASS



Band12-10MHz-QPSK-23060-1RB#0-1000~3000-PASS



Band12-10MHz-QPSK-23060-1RB#0-3000~10000-PASS



Band12-10MHz-QPSK-23095-1RB#0-0.009~0.15-PASS



Band12-10MHz-QPSK-23095-1RB#0-0.15~30-PASS



Band12-10MHz-QPSK-23095-1RB#0-30~1000-PASS



Band12-10MHz-QPSK-23095-1RB#0-1000~3000-PASS



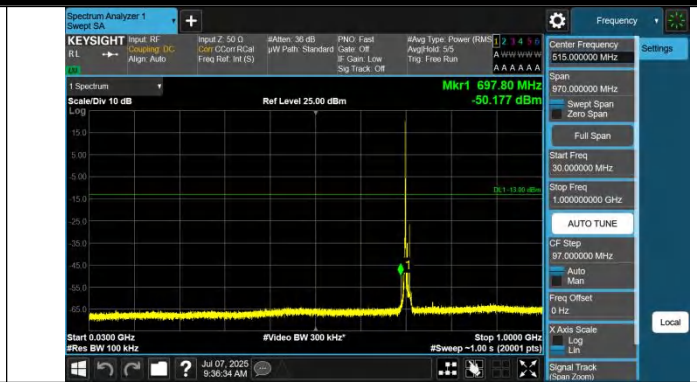
Band12-10MHz-QPSK-23095-1RB#0-3000~10000-PASS



Band12-10MHz-QPSK-23130-1RB#0-0.009~0.15-PASS



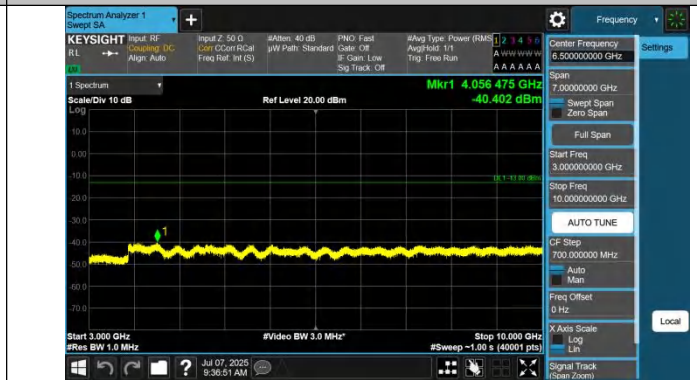
Band12-10MHz-QPSK-23130-1RB#0-0.15~30-PASS



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	11740.00	16.593640	±NA	703.03804	711.98544	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VL	NT	10380.00	14.671378	±NA	703.03568	711.98508	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VH	NT	11980.00	16.932862	±NA	703.04278	711.98118	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	9860.00	13.936396	±NA	703.03561	711.98411	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-20	9130.00	12.904594	±NA	703.03648	711.98178	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-10	12620.00	17.837456	±NA	703.03867	711.98657	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	0	11870.00	16.777385	±NA	703.03882	711.98492	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	10	11330.00	16.014134	±NA	703.03833	711.98433	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	20	10650.00	15.053004	±NA	703.03545	711.98585	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	30	13350.00	18.869258	±NA	703.0399	711.9868	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	40	11600.00	16.395760	±NA	703.0393	711.9839	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	50	12830.00	18.134276	±NA	703.03828	711.98738	699-716	PASS

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