

Appendix-B LTE Band5

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.92	23.09	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.89	22.06	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.07	23.24	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.30	22.47	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.63	22.8	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.69	21.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.04	23.21	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.04	22.21	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.69	21.86	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.37	21.54	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.23	22.4	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.22	22.39	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.16	22.33	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.97	21.14	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.37	22.54	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.66	21.83	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.85	22.02	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.93	21.1	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.37	22.54	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.38	21.55	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.09	21.26	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.57	20.74	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.64	21.81	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.49	21.66	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.86	23.03	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.01	22.18	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.32	23.49	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.09	22.26	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.63	22.8	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.73	21.9	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.14	23.31	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.60	21.77	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.67	21.84	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.59	21.76	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.71	22.88	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.24	22.41	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.99	22.16	38.45	PASS

Band5	3MHz	16QAM	20415	15RB#0	22.08	21.25	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.67	22.84	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.28	21.45	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.82	21.99	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.83	21	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.36	22.53	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.97	21.14	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.92	21.09	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.69	20.86	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.96	22.13	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.64	21.81	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.64	22.81	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.20	22.37	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.00	23.17	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.05	23.22	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.86	23.03	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.69	21.86	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.52	22.69	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.15	21.32	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.13	22.3	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.74	21.91	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.37	22.54	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.31	22.48	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.07	22.24	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.19	21.36	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.22	22.39	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.35	22.52	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.09	22.26	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.84	21.01	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.76	21.93	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.57	20.74	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.59	21.76	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.79	20.96	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.76	21.93	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.63	21.8	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.99	23.16	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.43	22.6	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.55	23.72	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.56	22.73	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.04	23.21	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.01	22.18	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.91	23.08	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.07	22.24	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.61	21.78	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.00	22.17	38.45	PASS

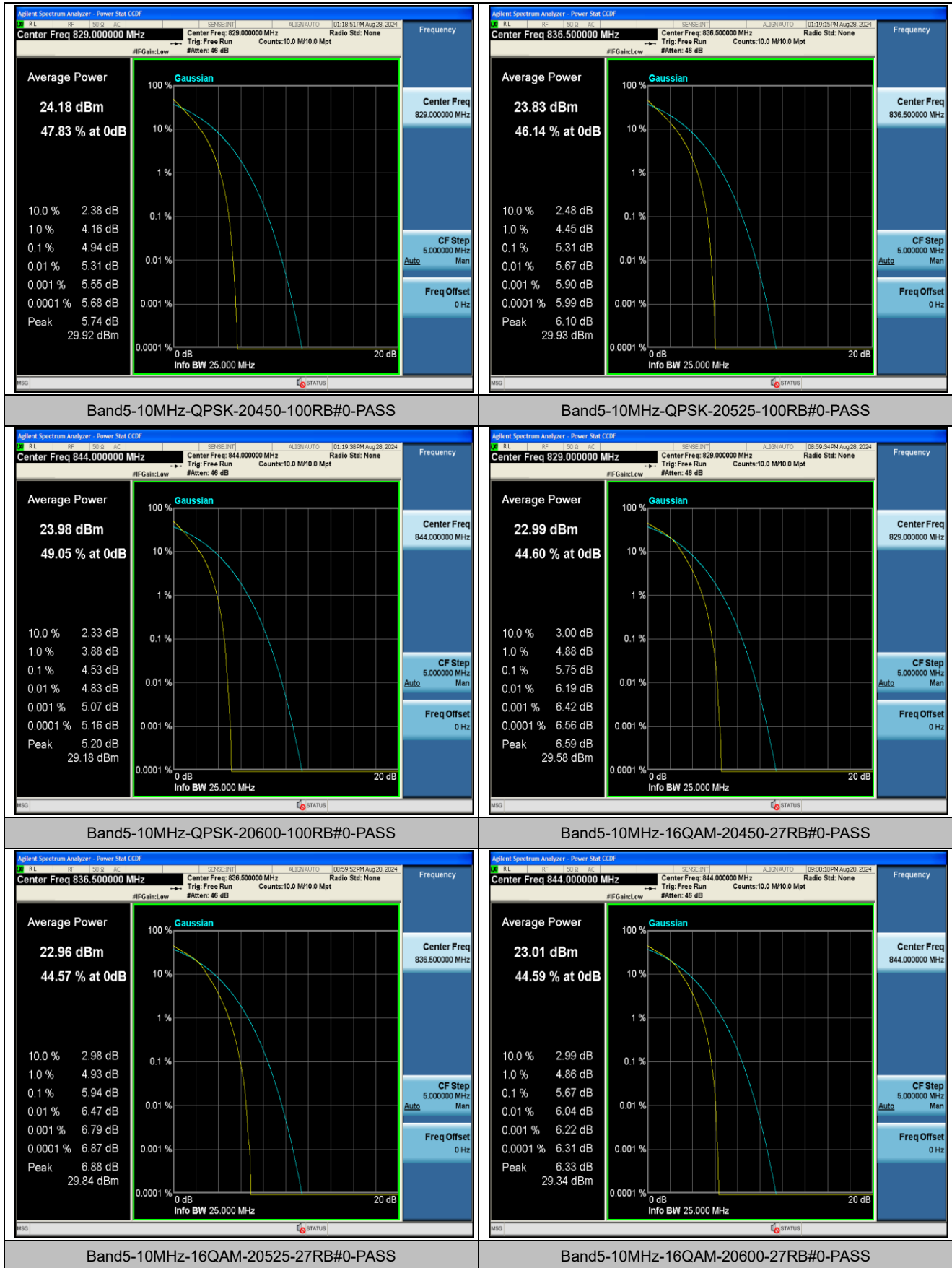
Band5	10MHz	QPSK	20600	1RB#24	23.87	23.04	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.55	22.72	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.24	22.41	38.45	PASS
Band5	10MHz	16QAM	20450	27RB#0	22.30	21.47	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.75	22.92	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.00	22.17	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.25	22.42	38.45	PASS
Band5	10MHz	16QAM	20525	27RB#0	22.10	21.27	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.23	22.4	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.40	21.57	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.84	21.01	38.45	PASS
Band5	10MHz	16QAM	20600	27RB#0	22.14	21.31	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.13	22.3	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.93	22.1	38.45	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band5	10MHz	QPSK	20450	100RB#0	4.94	13	PASS
Band5	10MHz	QPSK	20525	100RB#0	5.31	13	PASS
Band5	10MHz	QPSK	20600	100RB#0	4.53	13	PASS
Band5	10MHz	16QAM	20450	27RB#0	5.75	13	PASS
Band5	10MHz	16QAM	20525	27RB#0	5.94	13	PASS
Band5	10MHz	16QAM	20600	27RB#0	5.67	13	PASS

Test Graphs

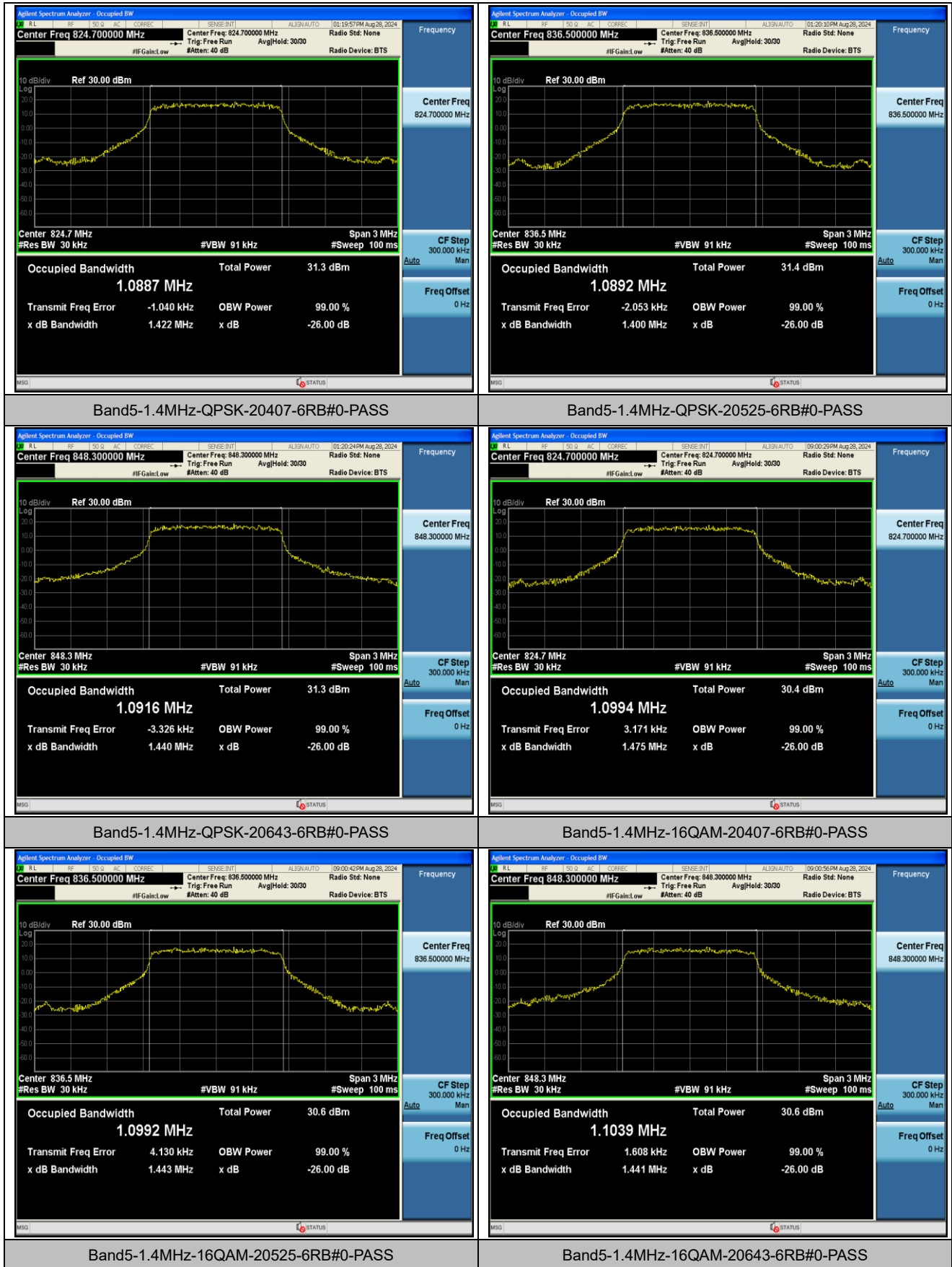


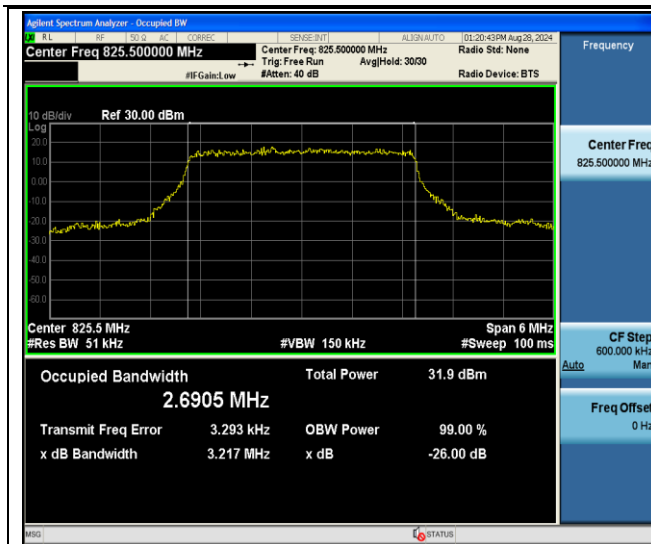
26dB Bandwidth and Occupied Bandwidth

Test Result

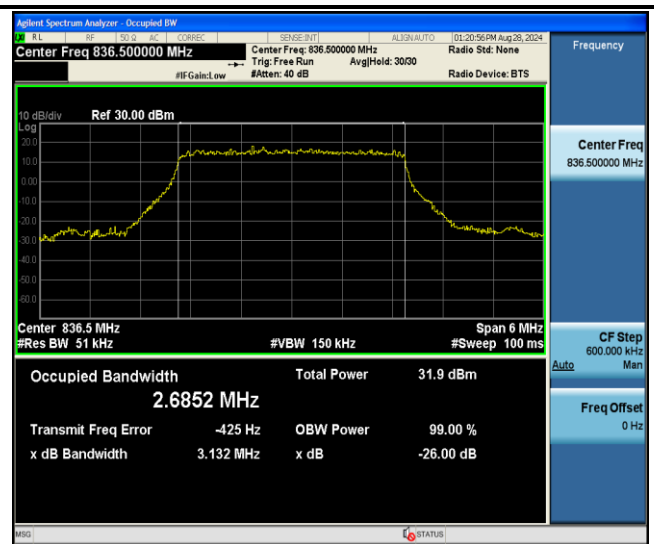
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0887	1.422	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0892	1.400	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0916	1.440	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0994	1.475	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0992	1.443	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1039	1.441	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6905	3.217	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6852	3.132	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6910	3.290	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6809	3.202	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6799	3.181	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6855	3.215	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4694	5.087	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4695	5.084	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4781	5.361	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4702	5.128	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4728	5.154	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4751	5.246	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9198	9.636	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9407	9.690	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9413	9.672	PASS
Band5	10MHz	16QAM	20450	27RB#0	5.1554	8.211	PASS
Band5	10MHz	16QAM	20525	27RB#0	5.1013	7.354	PASS
Band5	10MHz	16QAM	20600	27RB#0	5.1573	8.161	PASS

Test Graphs

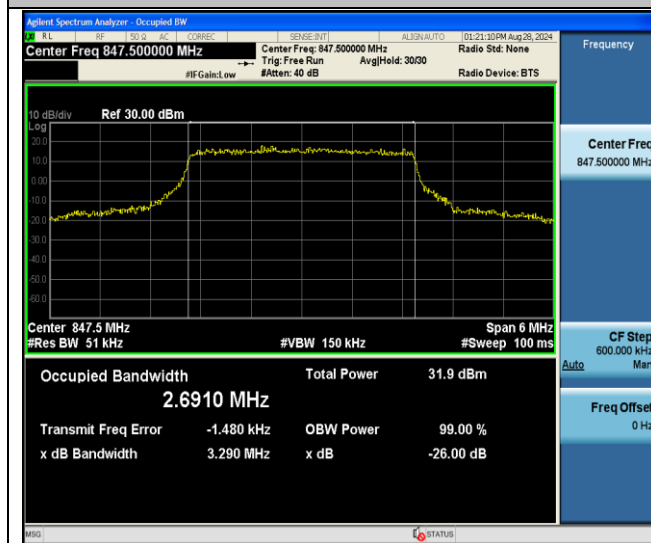




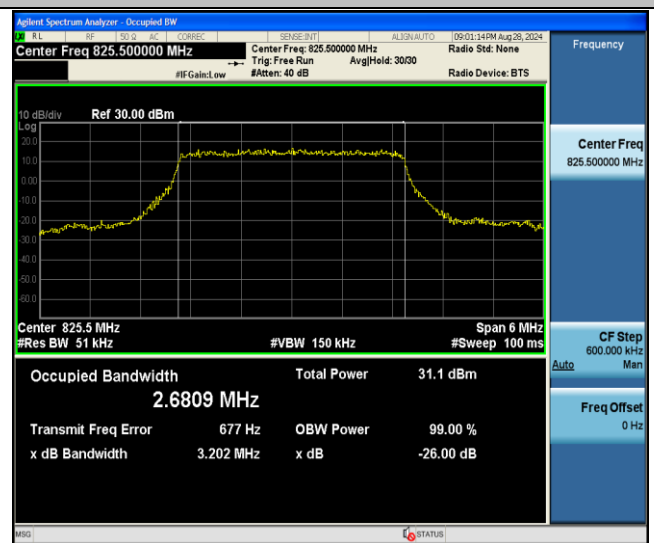
Band5-3MHz-QPSK-20415-15RB#0-PASS



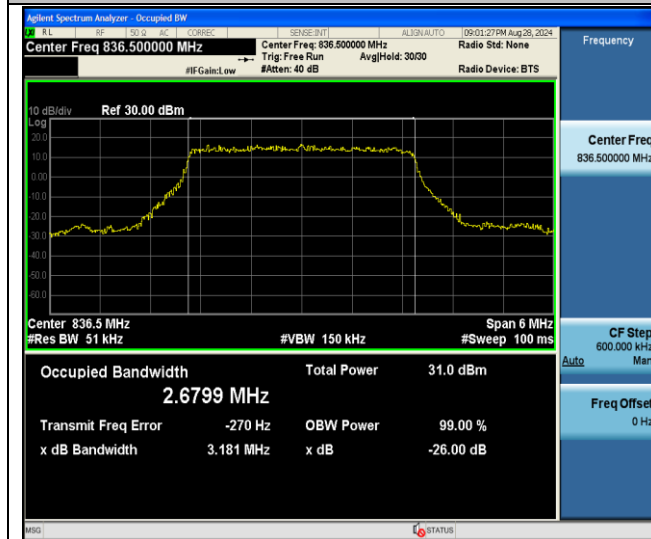
Band5-3MHz-QPSK-20525-15RB#0-PASS



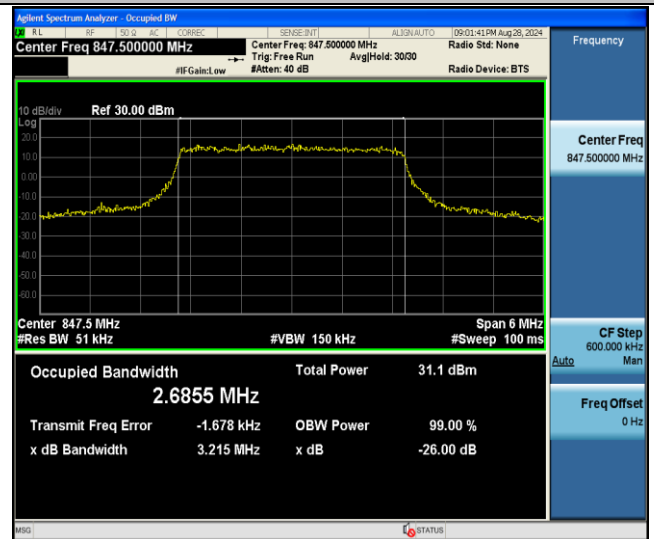
Band5-3MHz-QPSK-20635-15RB#0-PASS



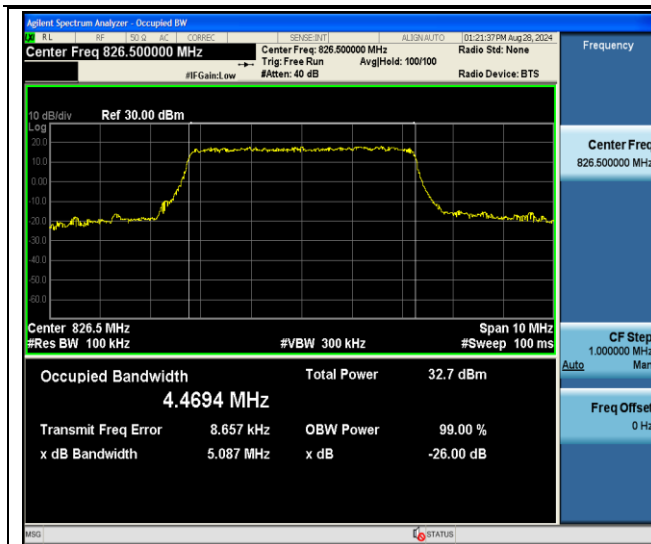
Band5-3MHz-16QAM-20415-15RB#0-PASS



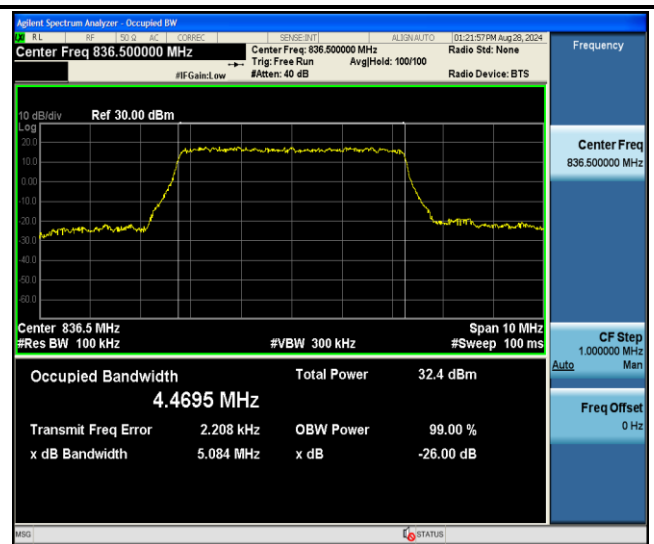
Band5-3MHz-16QAM-20525-15RB#0-PASS



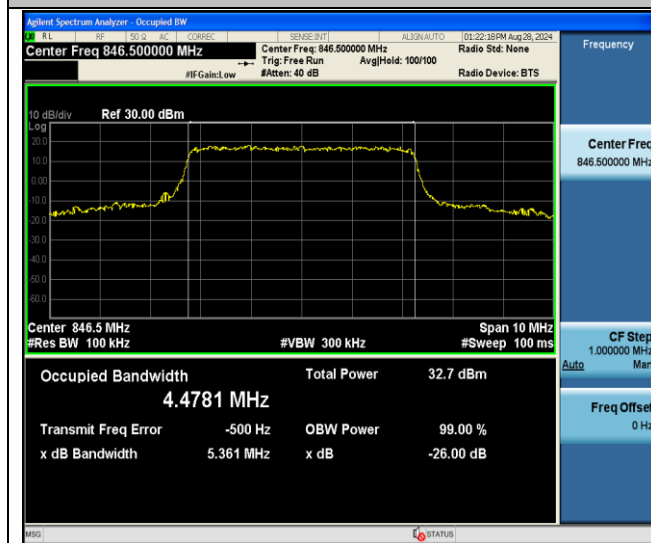
Band5-3MHz-16QAM-20635-15RB#0-PASS



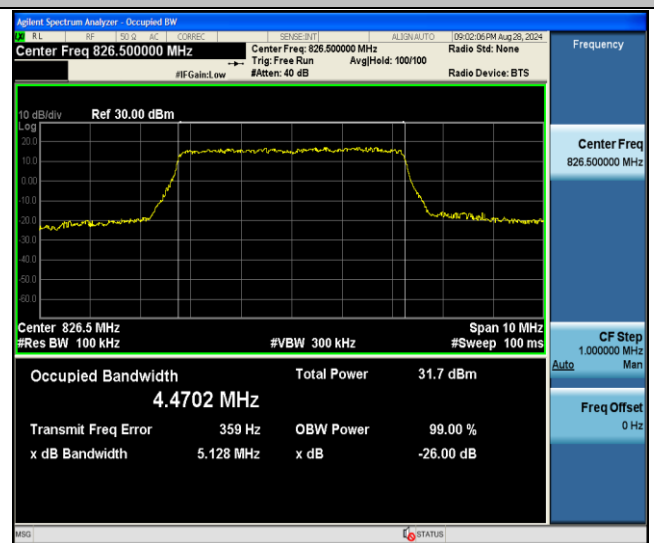
Band5-5MHz-QPSK-20425-25RB#0-PASS



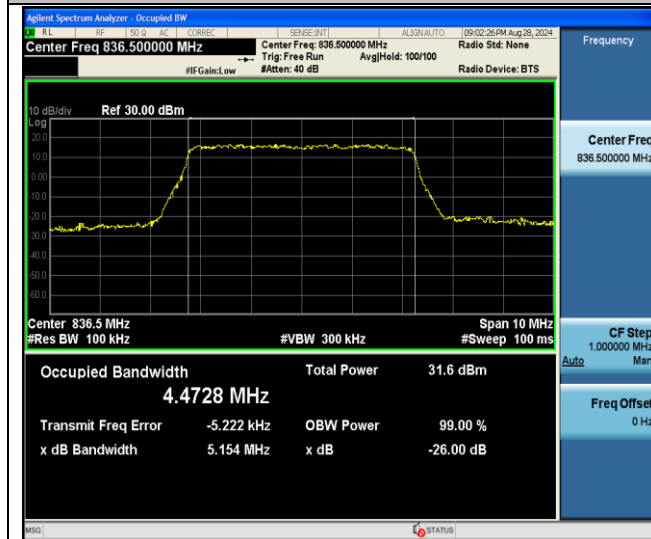
Band5-5MHz-QPSK-20525-25RB#0-PASS



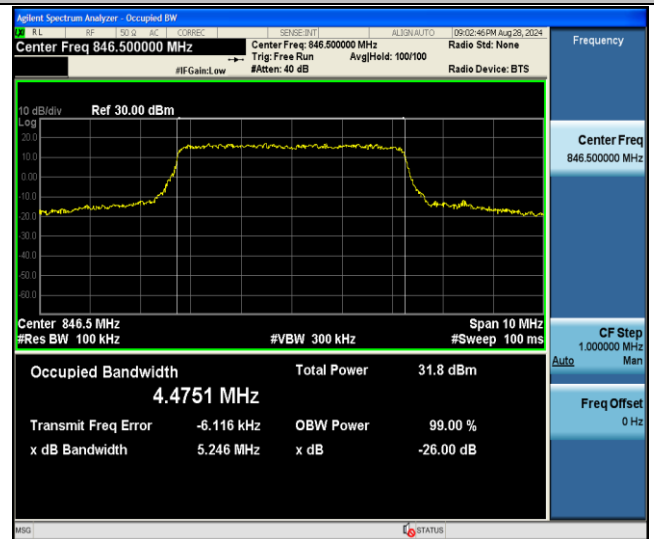
Band5-5MHz-QPSK-20625-25RB#0-PASS



Band5-5MHz-16QAM-20425-25RB#0-PASS



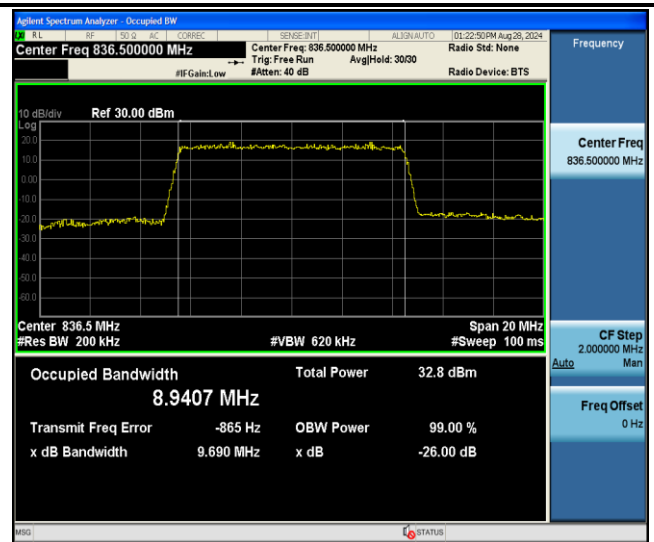
Band5-5MHz-16QAM-20525-25RB#0-PASS



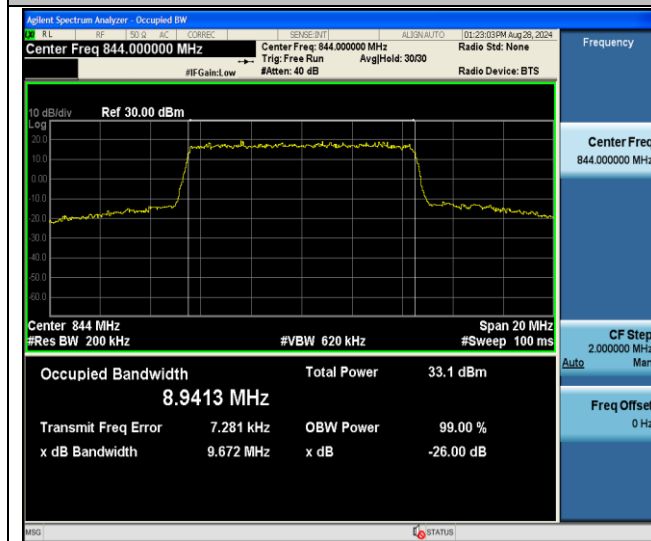
Band5-5MHz-16QAM-20625-25RB#0-PASS



Band5-10MHz-QPSK-20450-50RB#0-PASS



Band5-10MHz-QPSK-20525-50RB#0-PASS



Band5-10MHz-QPSK-20600-50RB#0-PASS



Band5-10MHz-16QAM-20450-27RB#0-PASS



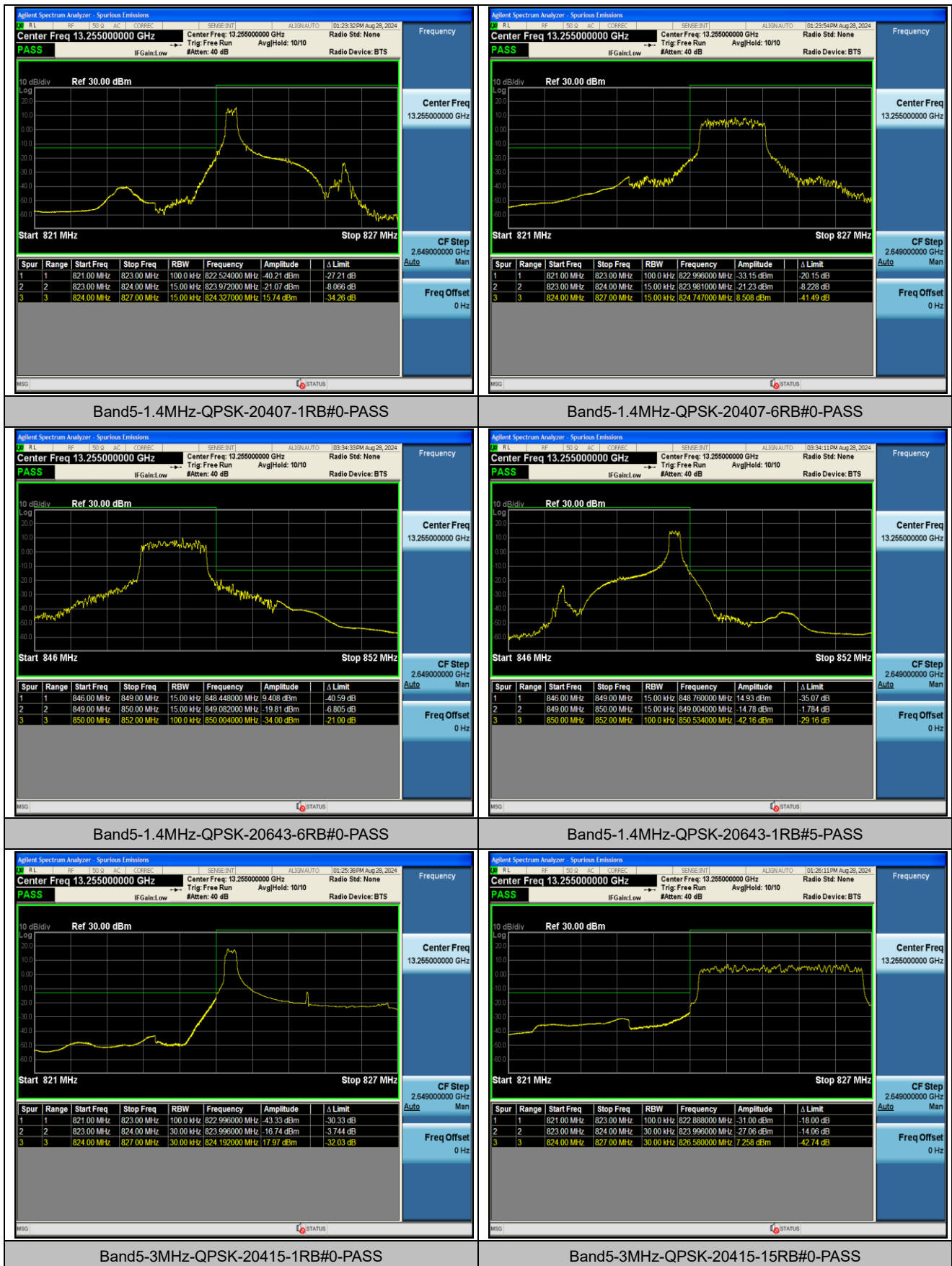
Band5-10MHz-16QAM-20525-27RB#0-PASS



Band5-10MHz-16QAM-20600-27RB#0-PASS

Band Edge

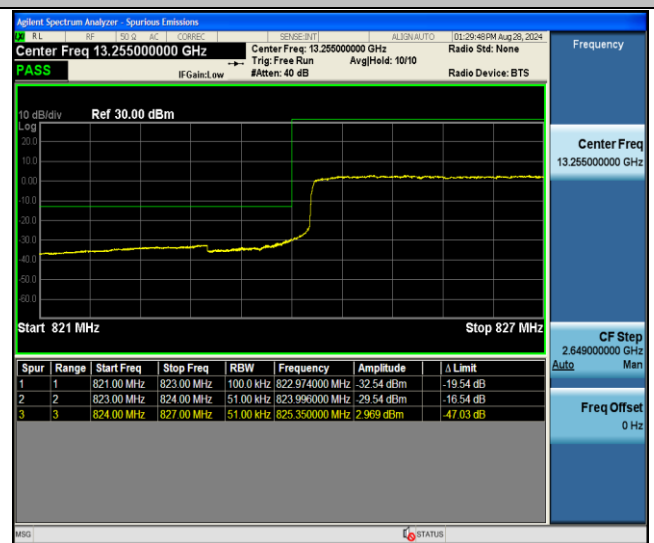
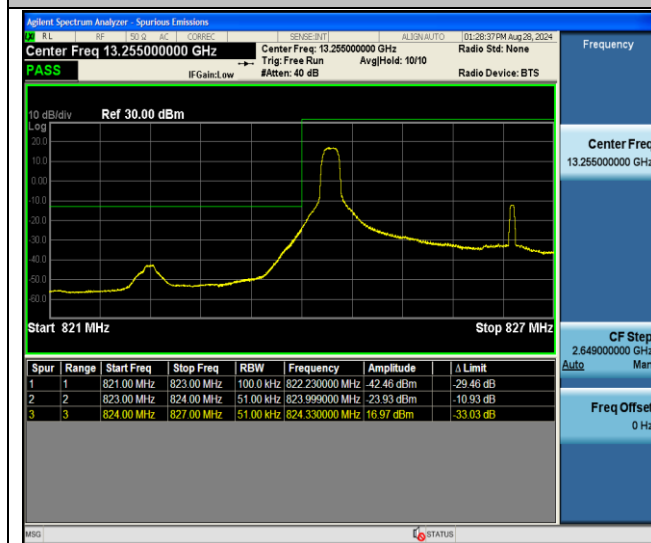
Test Graphs





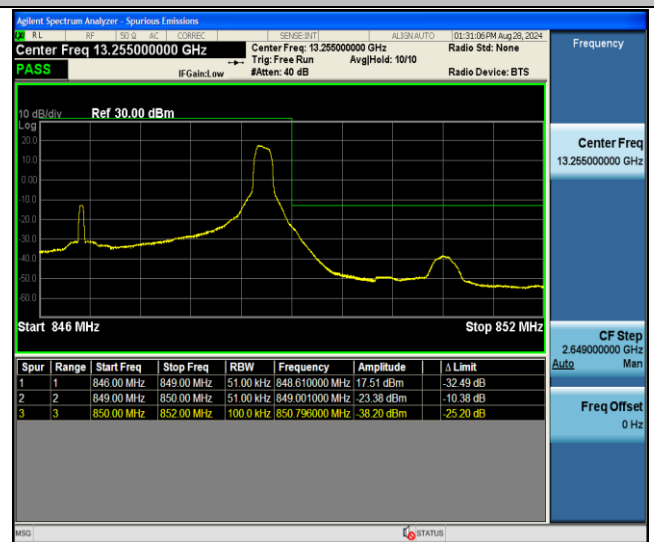
Band5-3MHz-QPSK-20635-15RB#0-PASS

Band5-3MHz-QPSK-20635-1RB#14-PASS



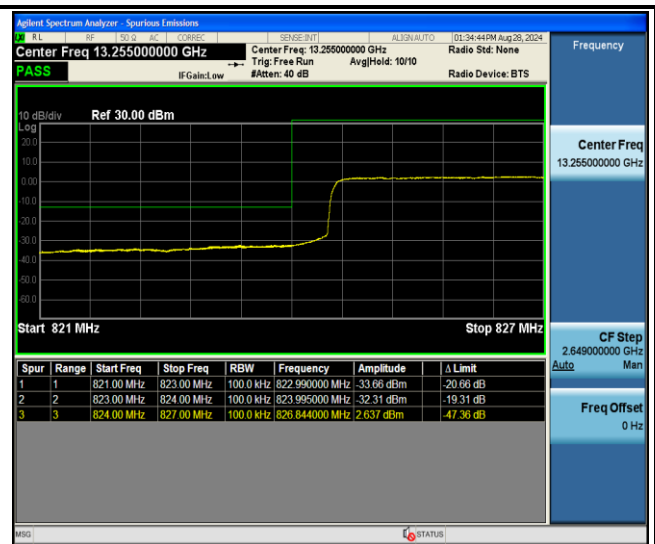
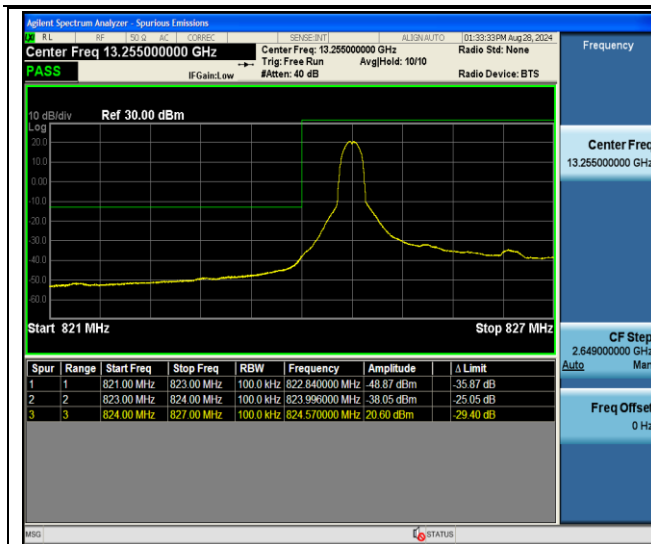
Band5-5MHz-QPSK-20425-1RB#0-PASS

Band5-5MHz-QPSK-20425-25RB#0-PASS



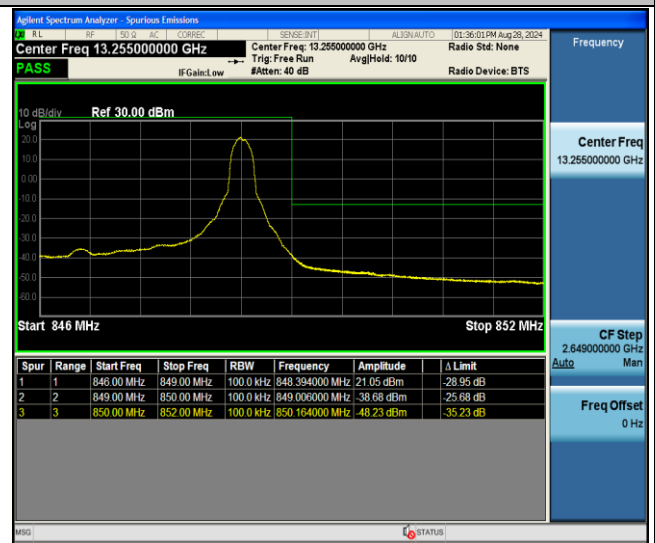
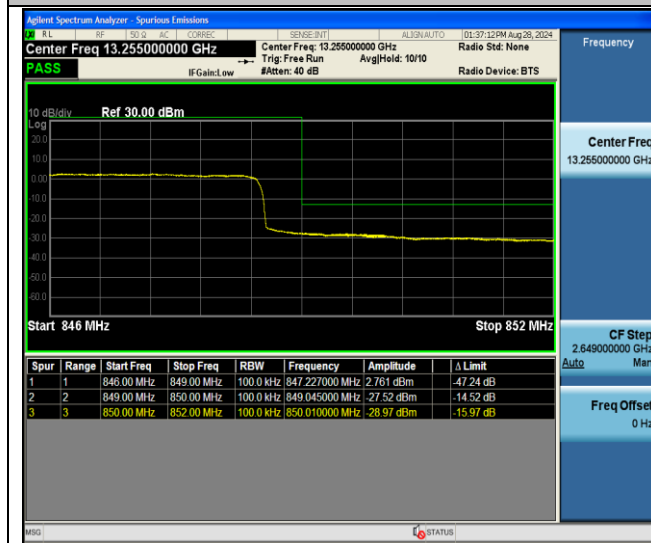
Band5-5MHz-QPSK-20625-25RB#0-PASS

Band5-5MHz-QPSK-20625-1RB#24-PASS



Band5-10MHz-QPSK-20450-1RB#0-PASS

Band5-10MHz-QPSK-20450-50RB#0-PASS

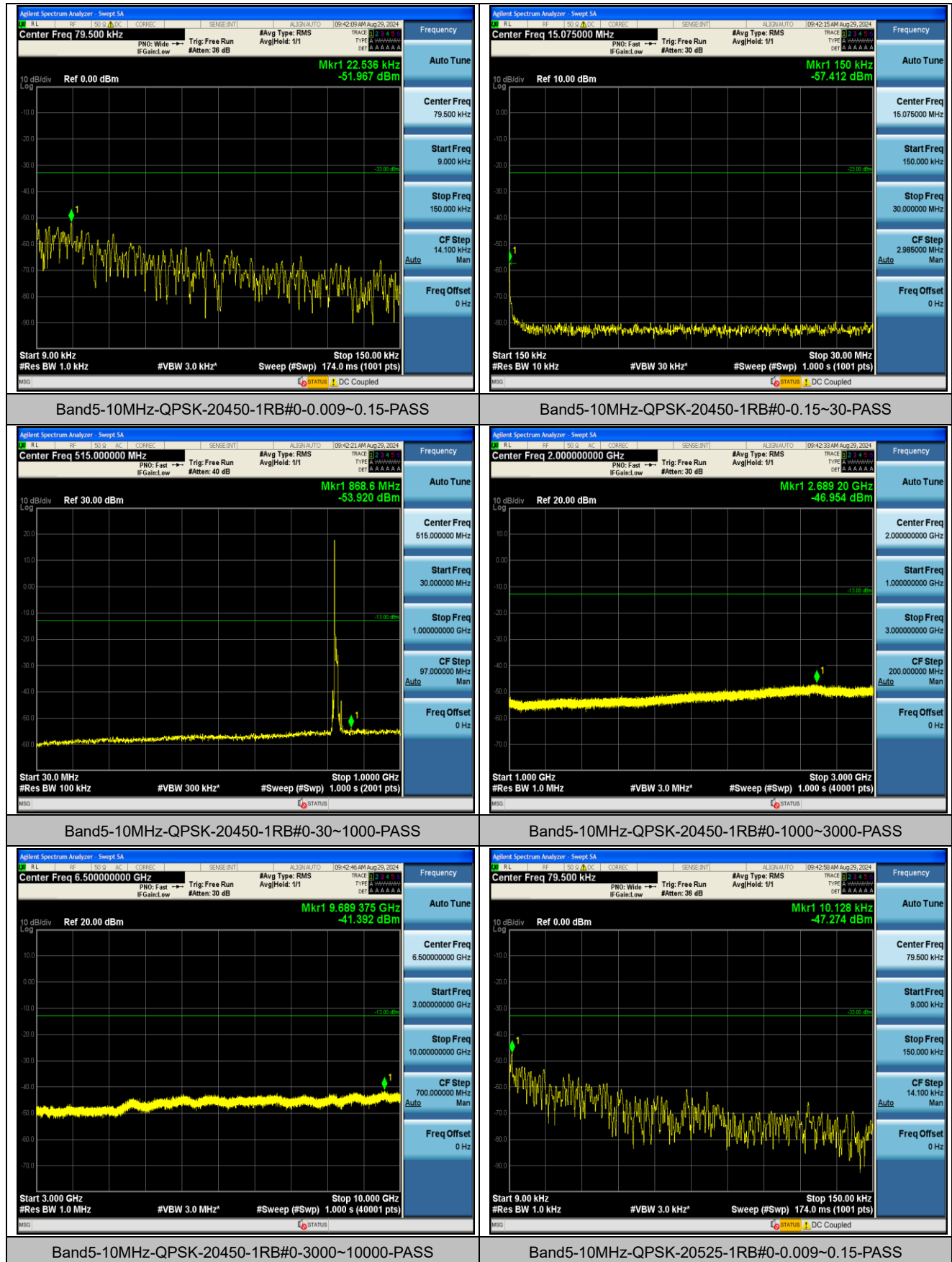


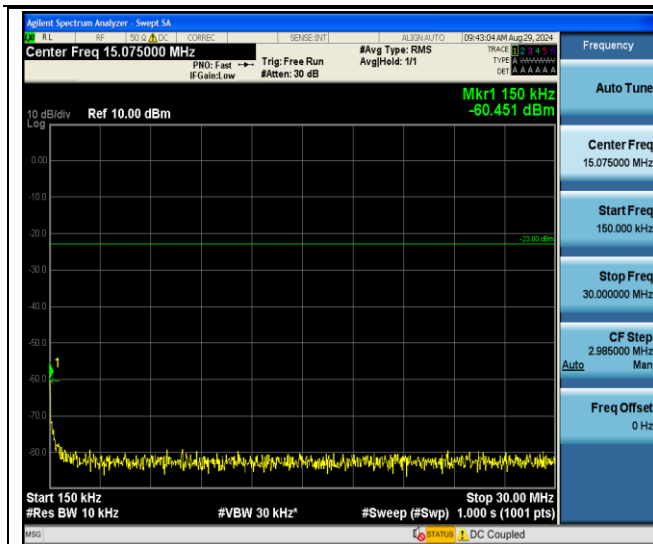
Band5-10MHz-QPSK-20600-50RB#0-PASS

Band5-10MHz-QPSK-20600-1RB#49-PASS

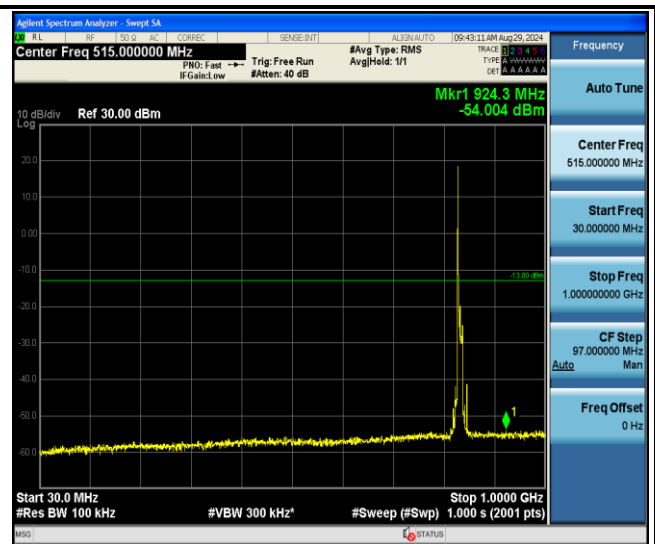
Conducted Spurious Emission

Test Graphs

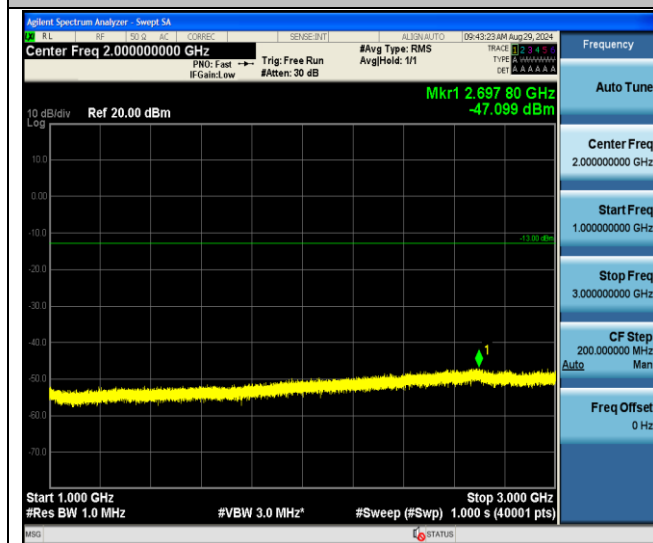




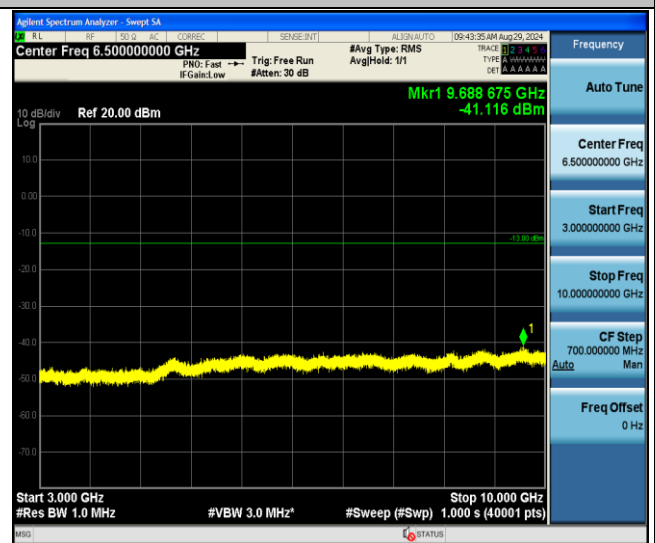
Band5-10MHz-QPSK-20525-1RB#0-0.15~30-PASS



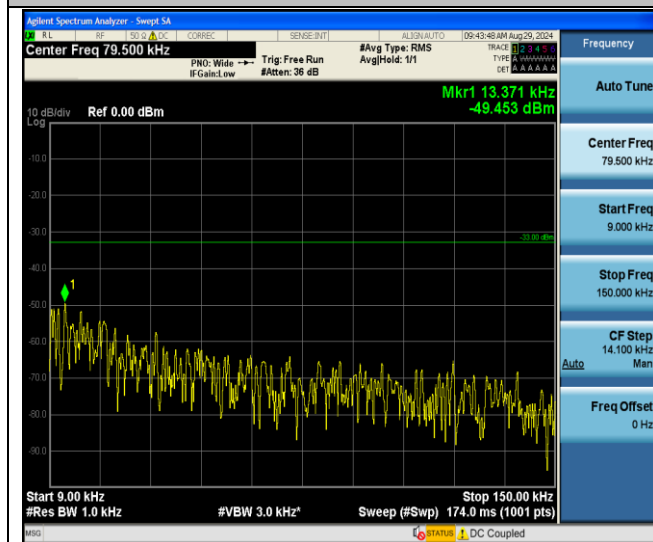
Band5-10MHz-QPSK-20525-1RB#0-30~1000-PASS



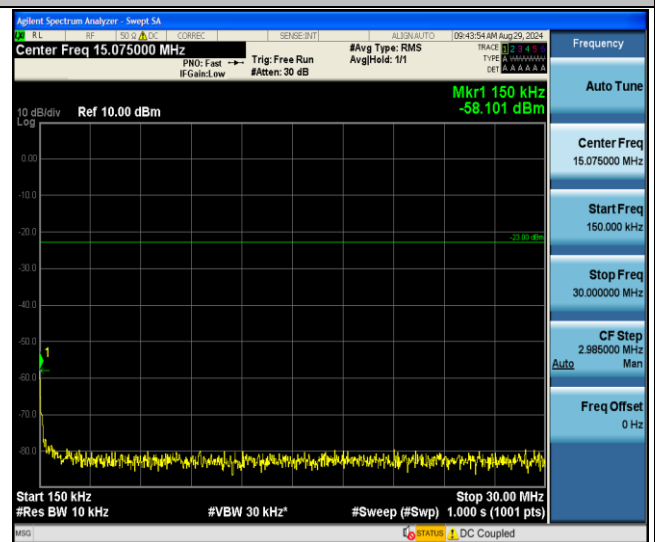
Band5-10MHz-QPSK-20525-1RB#0-1000~3000-PASS



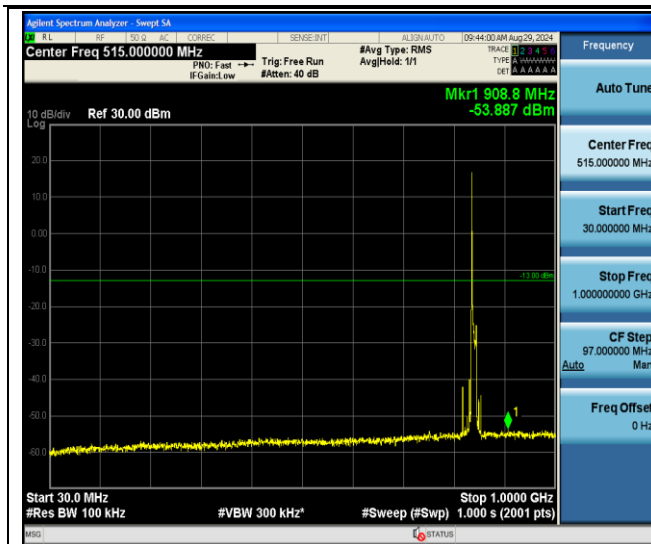
Band5-10MHz-QPSK-20525-1RB#0-3000~10000-PASS



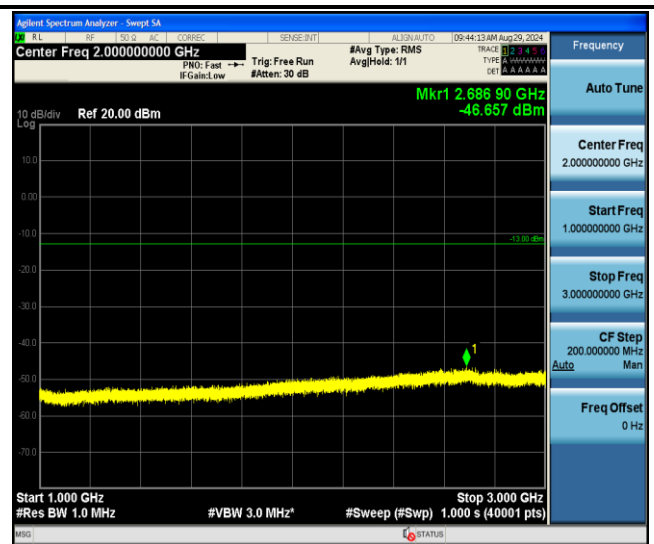
Band5-10MHz-QPSK-20600-1RB#0-0.009~0.15-PASS



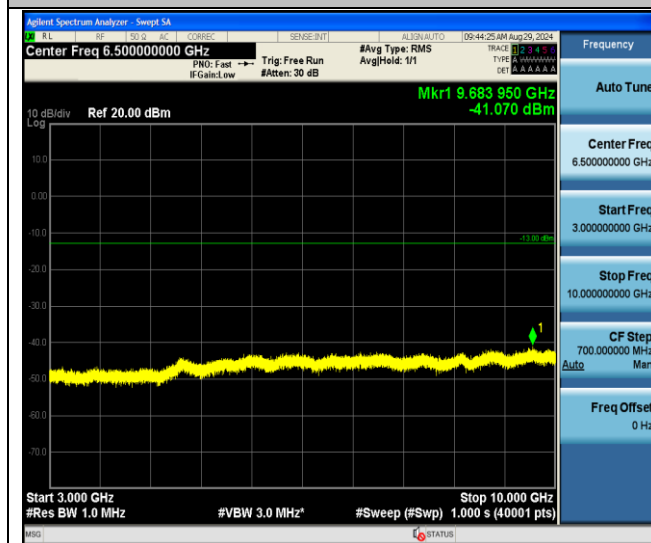
Band5-10MHz-QPSK-20600-1RB#0-0.15~30-PASS



Band5-10MHz-QPSK-20600-1RB#0-30~1000-PASS



Band5-10MHz-QPSK-20600-1RB#0-1000~3000-PASS



Band5-10MHz-QPSK-20600-1RB#0-3000~10000-PASS

Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	100RB#0	VN	NT	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	QPSK	20525	100RB#0	VL	NT	-7.20	-0.008607	±2.5	PASS
Band5	10MHz	QPSK	20525	100RB#0	VH	NT	-7.40	-0.008846	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	100RB#0	NV	-30	-6.40	-0.007651	±2.5	PASS
Band5	10MHz	QPSK	20525	100RB#0	NV	-20	-7.50	-0.008966	±2.5	PASS
Band5	10MHz	QPSK	20525	100RB#0	NV	-10	-6.90	-0.008249	±2.5	PASS
Band5	10MHz	QPSK	20525	100RB#0	NV	0	-6.20	-0.007412	±2.5	PASS
Band5	10MHz	QPSK	20525	100RB#0	NV	10	-2.60	-0.003108	±2.5	PASS
Band5	10MHz	QPSK	20525	100RB#0	NV	20	-6.50	-0.007770	±2.5	PASS
Band5	10MHz	QPSK	20525	100RB#0	NV	30	-6.30	-0.007531	±2.5	PASS
Band5	10MHz	QPSK	20525	100RB#0	NV	40	-6.90	-0.008249	±2.5	PASS
Band5	10MHz	QPSK	20525	100RB#0	NV	50	-1.50	-0.001793	±2.5	PASS