

Appendix-A LTE Band 71

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.1	20.05	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.12	20.07	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.01	19.96	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.03	18.98	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.17	19.12	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.13	19.08	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.03	18.98	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.01	17.96	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.21	20.16	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.27	20.22	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.08	20.03	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.23	19.18	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.4	19.35	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.43	19.38	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.39	19.34	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.26	18.21	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.06	20.01	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.09	20.04	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.18	20.13	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.13	19.08	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.5	19.45	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.56	19.51	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.56	19.51	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.24	18.19	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.1	20.05	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.07	20.02	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.11	20.06	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.12	19.07	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.16	19.11	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.28	19.23	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.15	19.1	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.05	18	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.05	20	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.17	20.12	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.09	20.04	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.25	19.2	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.42	19.37	34.77	PASS

Band71	10MHz	16QAM	133297	1RB#24	22.54	19.49	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.4	19.35	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.3	18.25	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.18	20.13	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.15	20.1	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.11	20.06	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.17	19.12	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.36	19.31	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.26	19.21	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.26	19.21	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.24	18.19	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.07	20.02	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.14	20.09	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.95	19.9	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.02	18.97	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.21	19.16	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.22	19.17	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.3	19.25	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.23	18.18	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	22.93	19.88	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.12	20.07	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.1	20.05	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.19	19.14	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.12	19.07	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.46	19.41	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.36	19.31	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.26	18.21	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.21	20.16	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.15	20.1	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.14	20.09	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.23	19.18	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.57	19.52	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.4	19.35	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.18	19.13	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.34	18.29	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.19	20.14	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.17	20.12	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.98	19.93	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.09	19.04	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.23	19.18	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.35	19.3	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.28	19.23	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.14	18.09	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.06	20.01	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.08	20.03	34.77	PASS

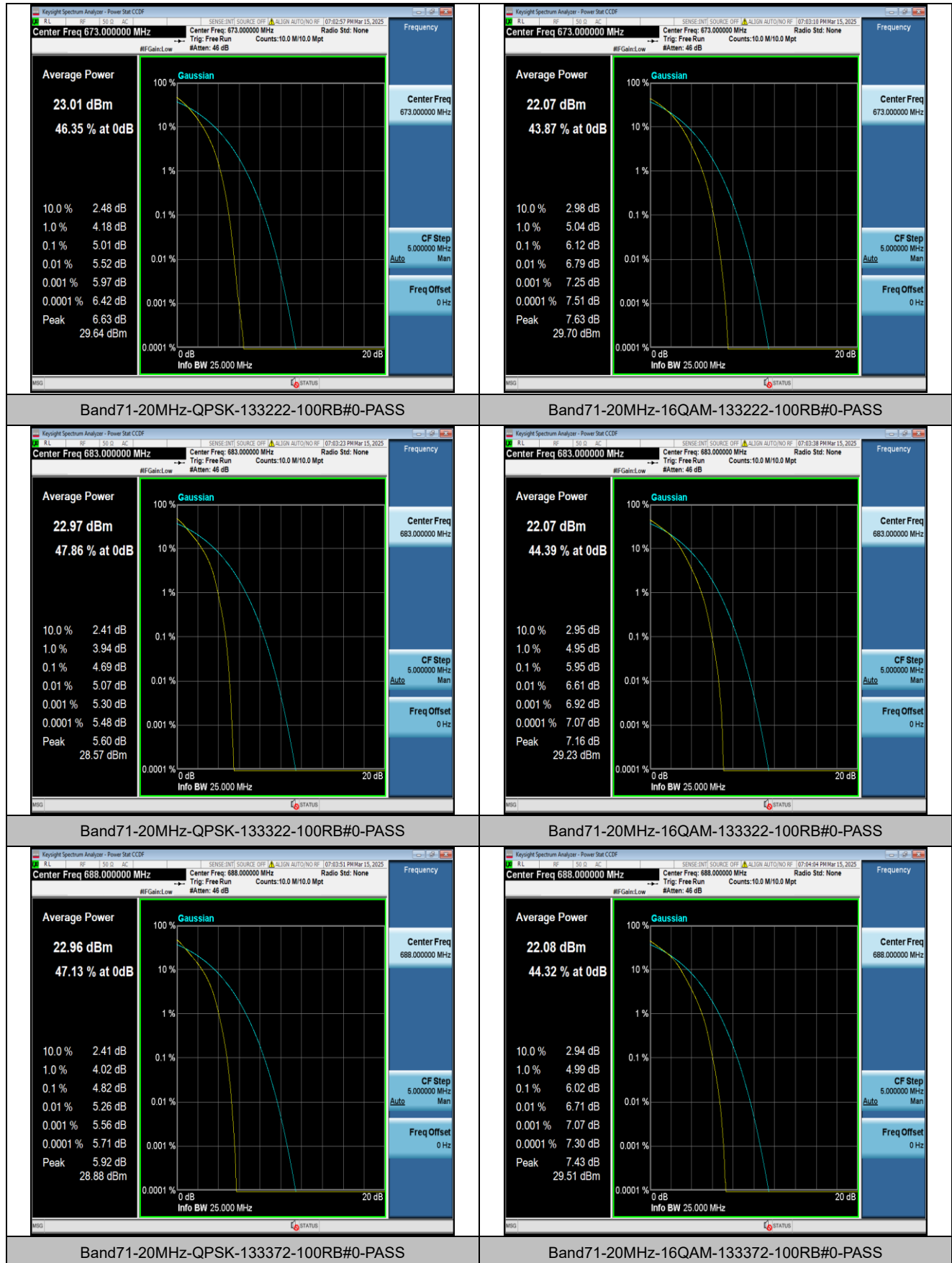
Band71	20MHz	QPSK	133322	1RB#99	22.97	19.92	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.1	19.05	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.3	19.25	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.52	19.47	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.07	19.02	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.17	18.12	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.2	20.15	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.11	20.06	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.98	19.93	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.04	18.99	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.44	19.39	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.42	19.37	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.54	19.49	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.11	18.06	34.77	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.01	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.12	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	4.69	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.95	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	4.82	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.02	13	PASS

Test Graphs

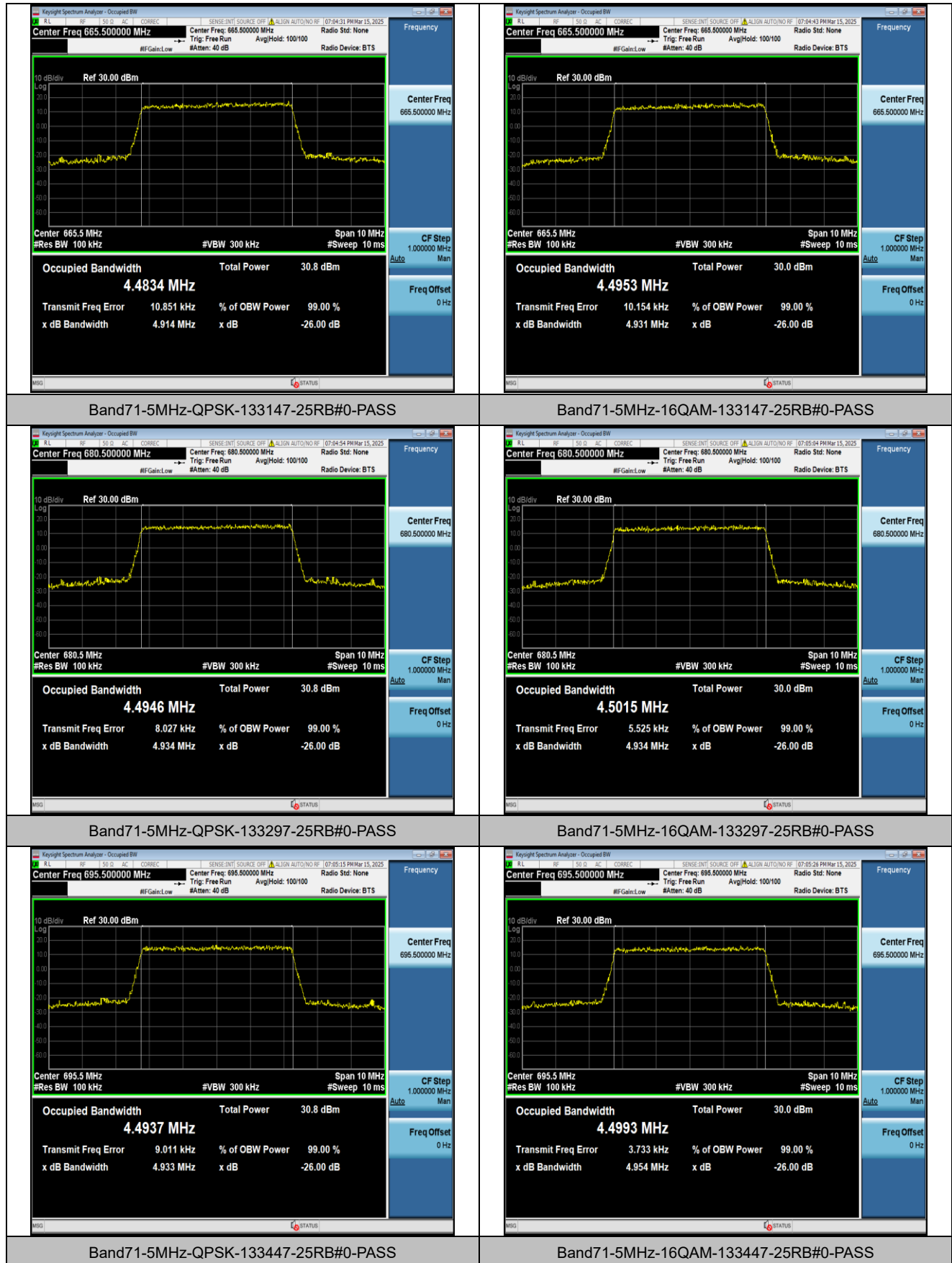


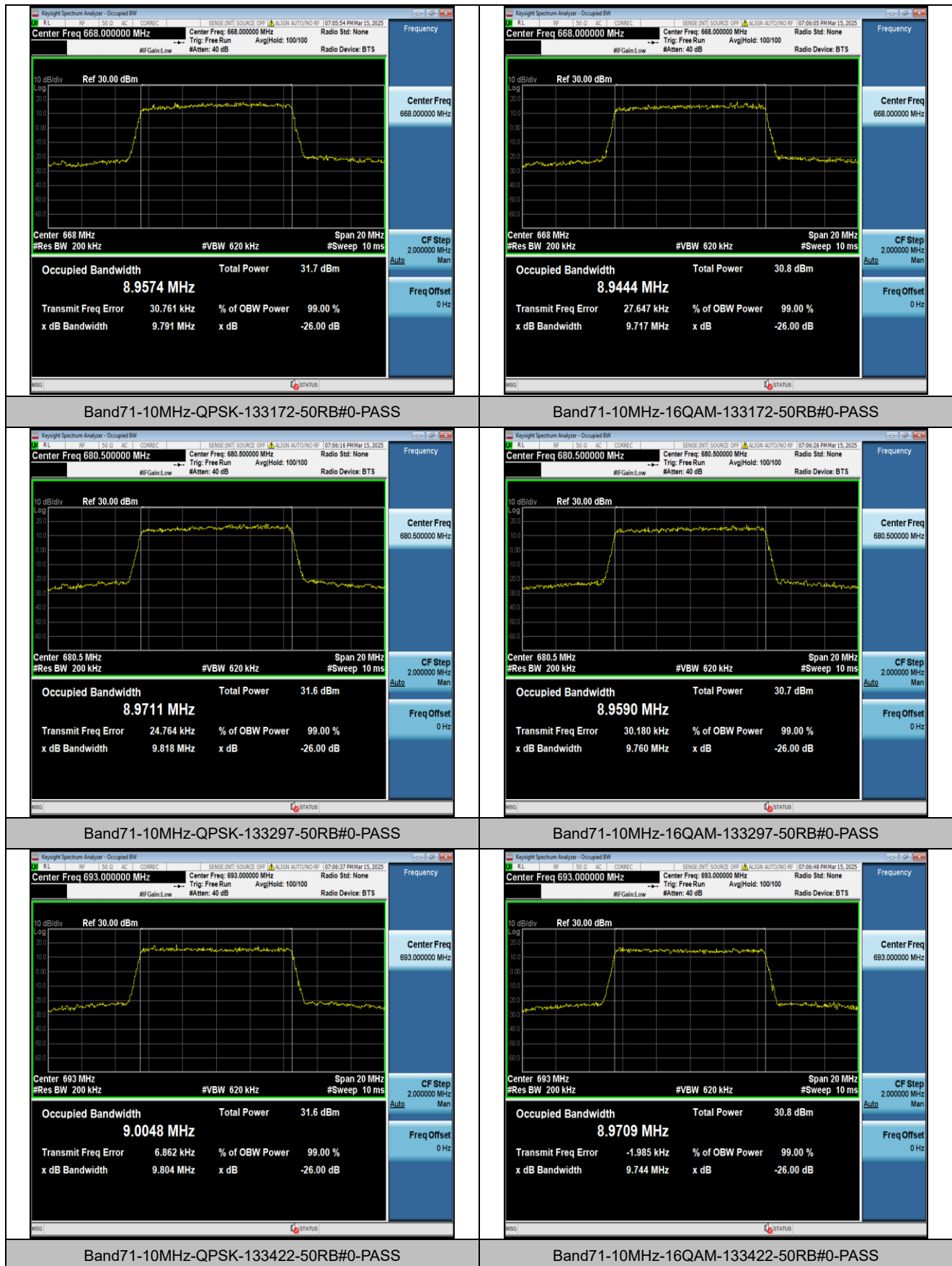
26dB Bandwidth and Occupied Bandwidth

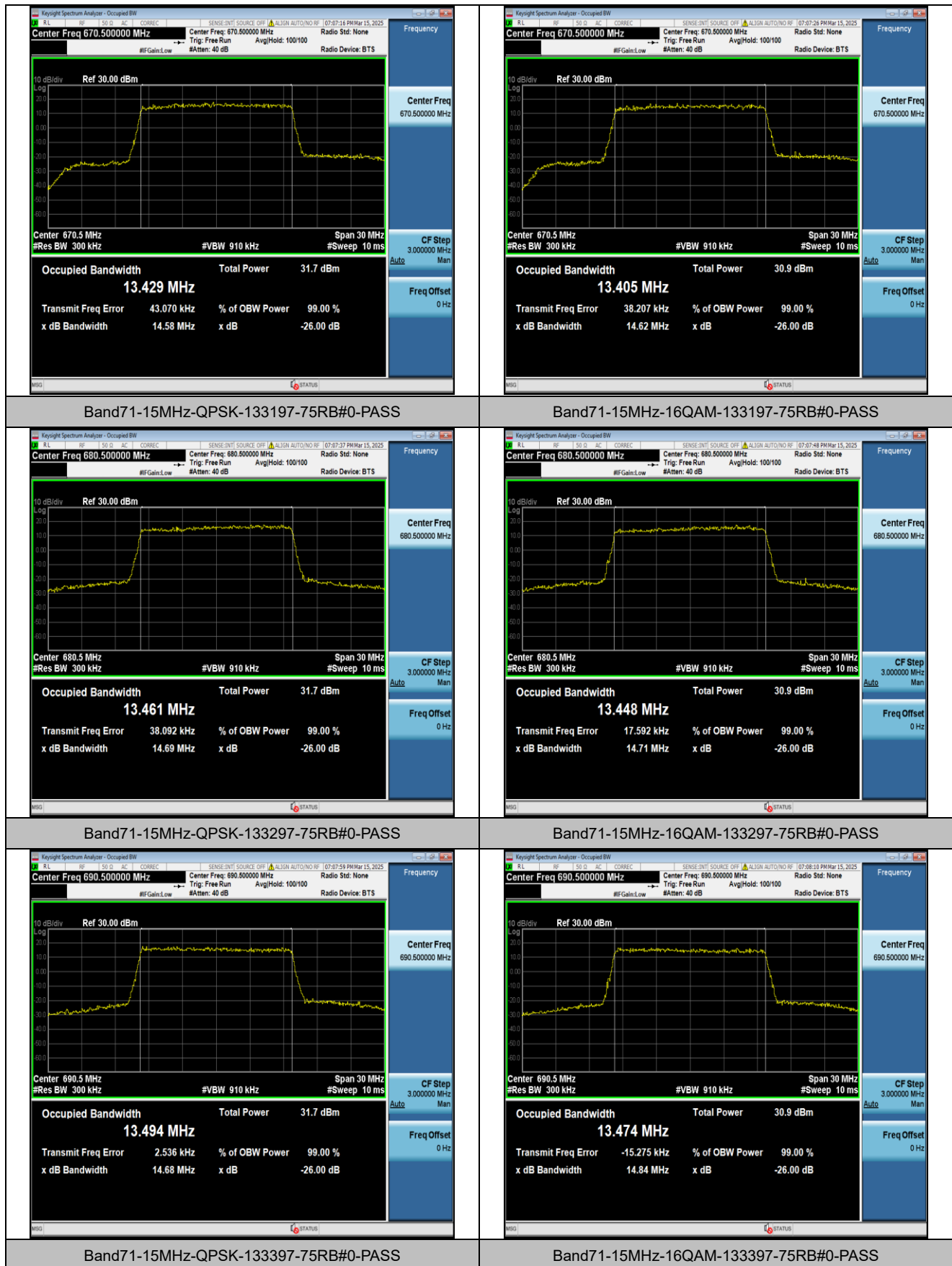
Test Result

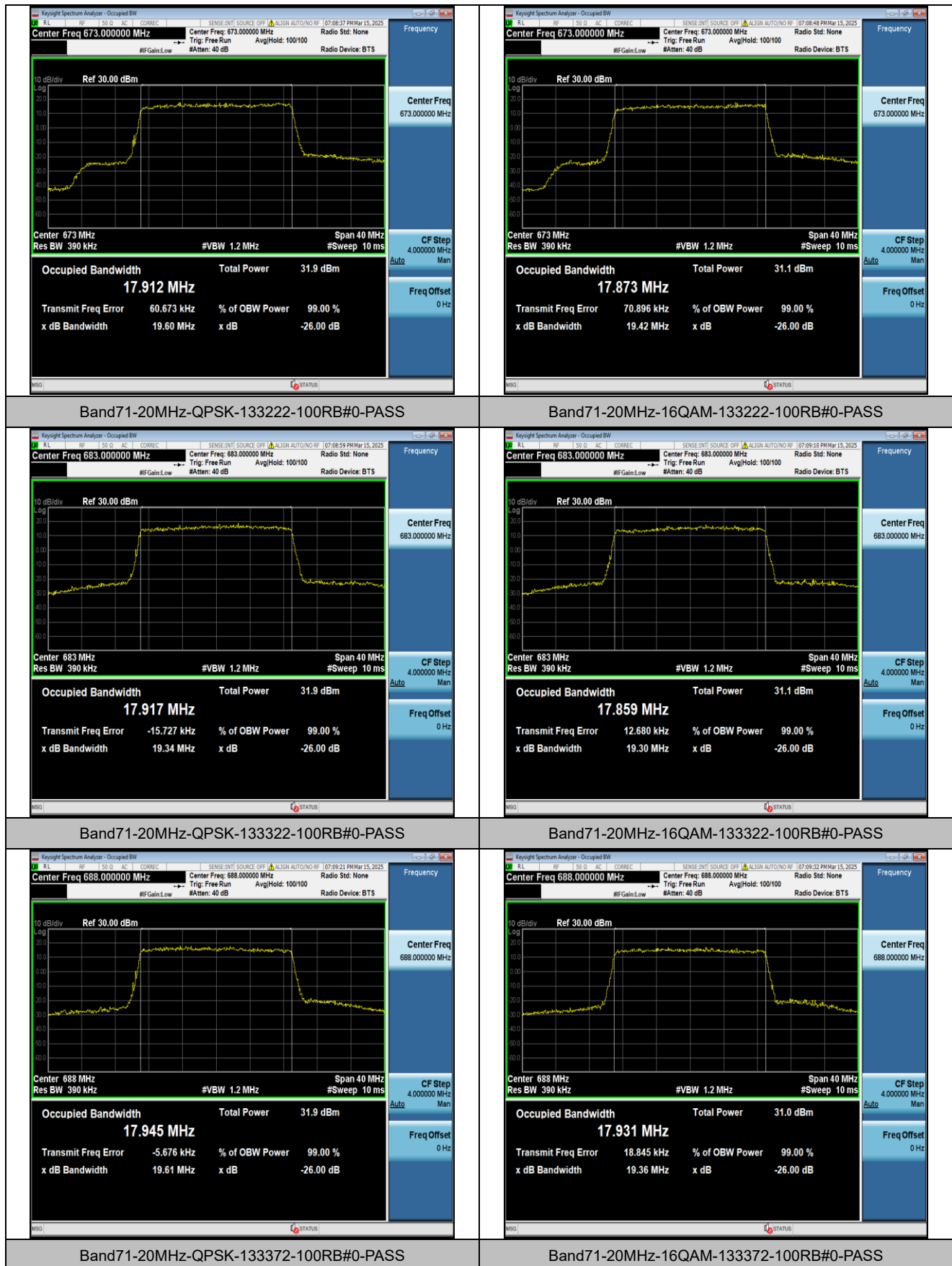
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.4834	4.914	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.4953	4.931	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.4946	4.934	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.5015	4.934	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.4937	4.933	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.4993	4.954	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.9574	9.791	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.9444	9.717	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.9711	9.818	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.9590	9.760	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.0048	9.804	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.9709	9.744	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.429	14.58	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.405	14.62	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.461	14.69	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.448	14.71	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.494	14.68	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.474	14.84	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.912	19.60	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.873	19.42	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.917	19.34	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.859	19.30	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.945	19.61	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.931	19.36	PASS

Test Graphs



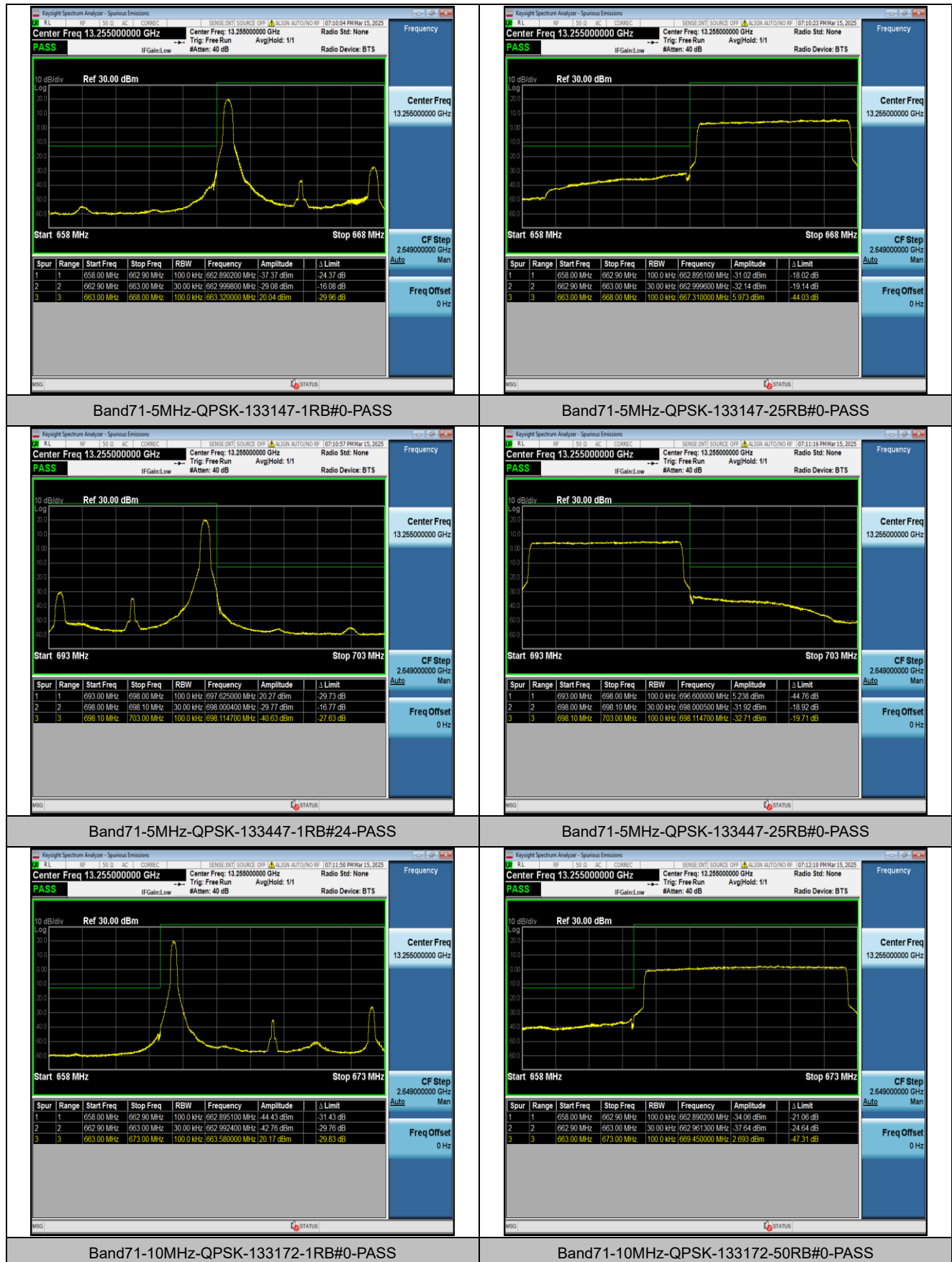


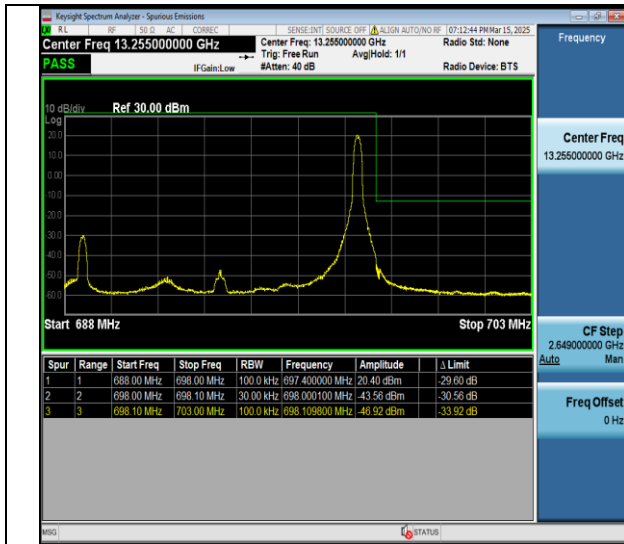




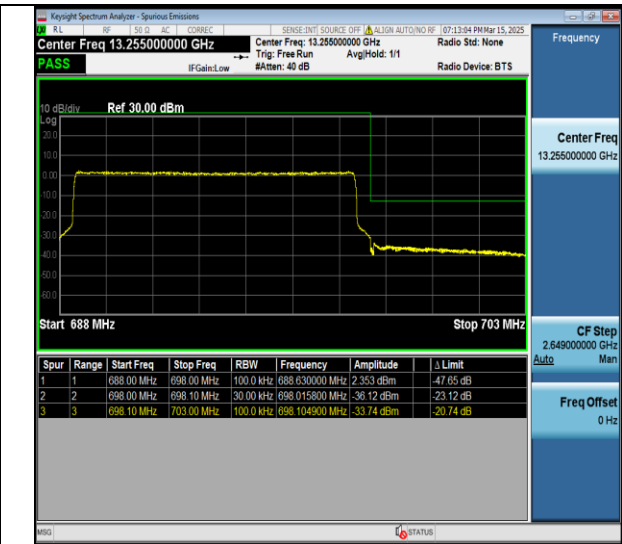
Band Edge

Test Graphs

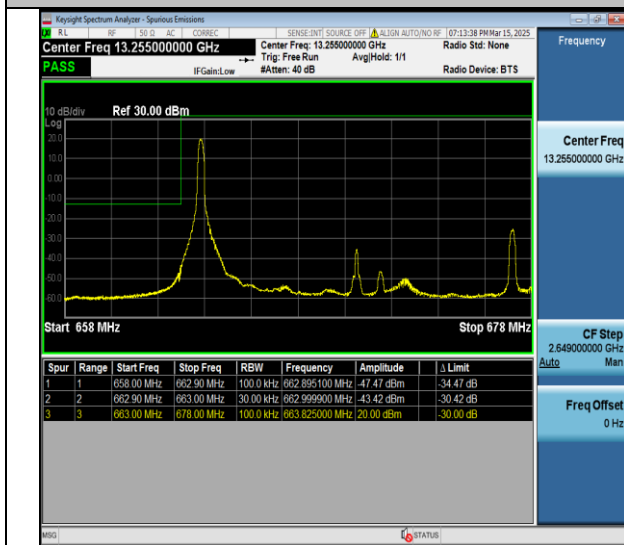




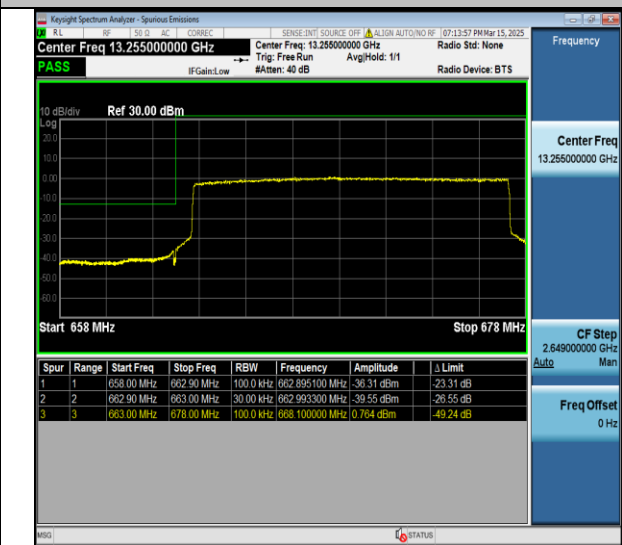
Band71-10MHz-QPSK-133422-1RB#49-PASS



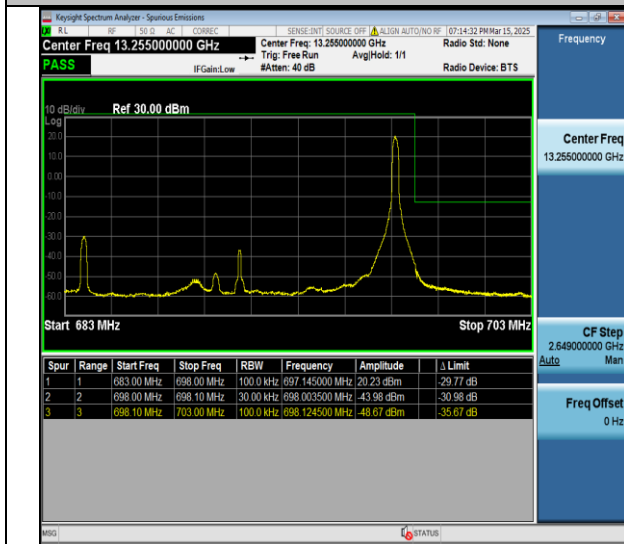
Band71-10MHz-QPSK-133422-50RB#0-PASS



Band71-15MHz-QPSK-133197-1RB#0-PASS



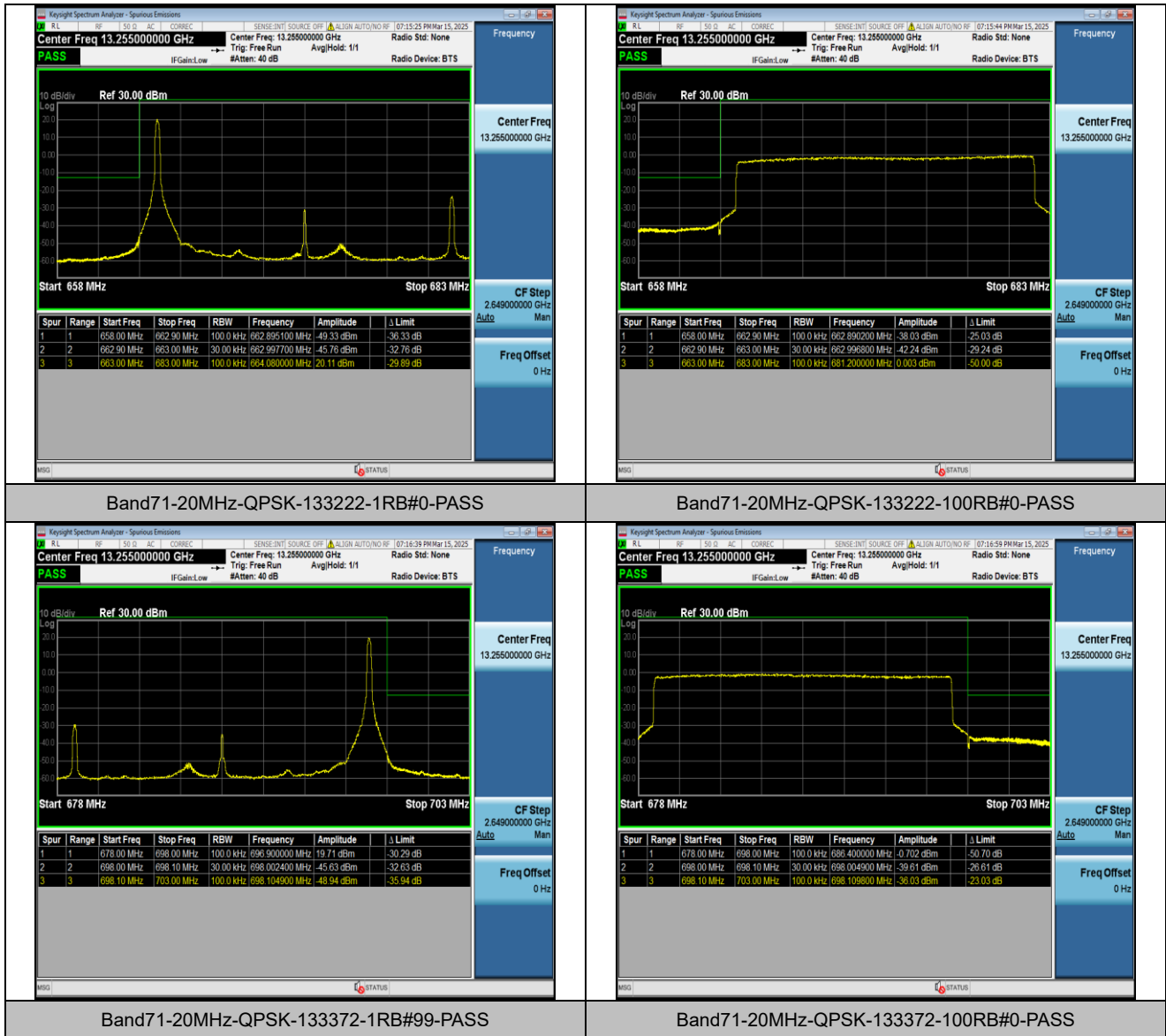
Band71-15MHz-QPSK-133197-75RB#0-PASS



Band71-15MHz-QPSK-133397-1RB#74-PASS

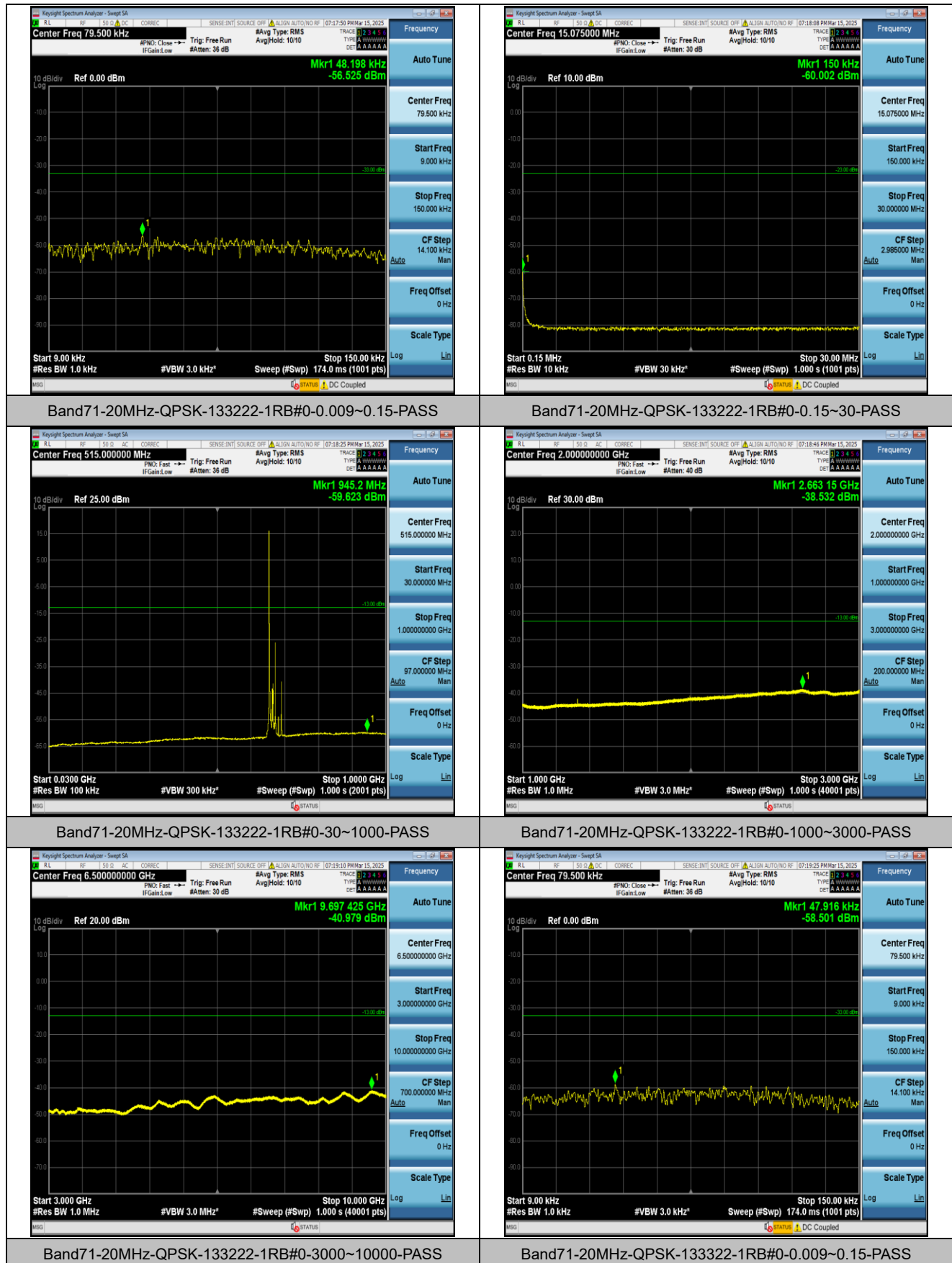


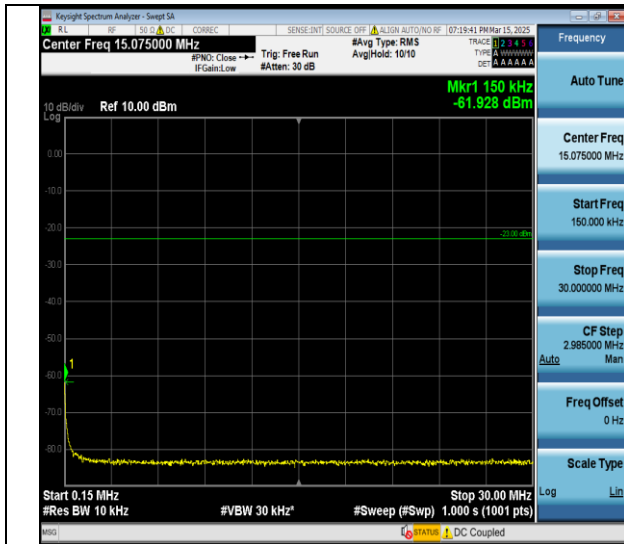
Band71-15MHz-QPSK-133397-75RB#0-PASS



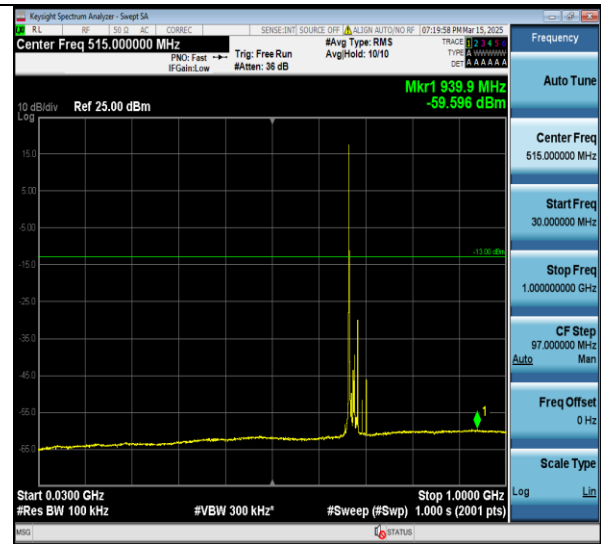
Conducted Spurious Emission

Test Graphs





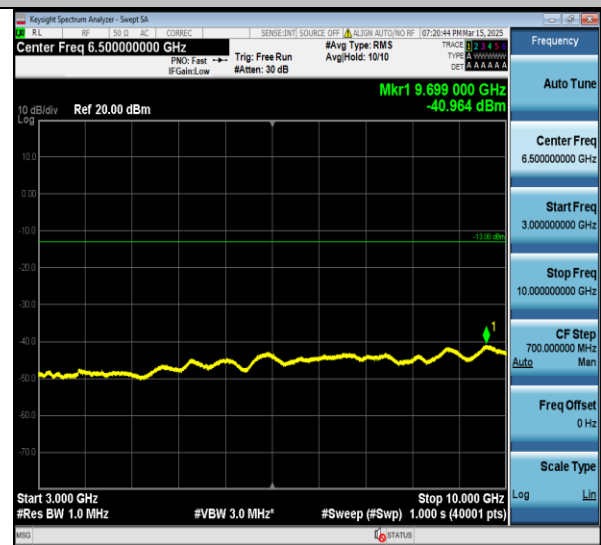
Band71-20MHz-QPSK-133322-1RB#0-0.15~30-PASS



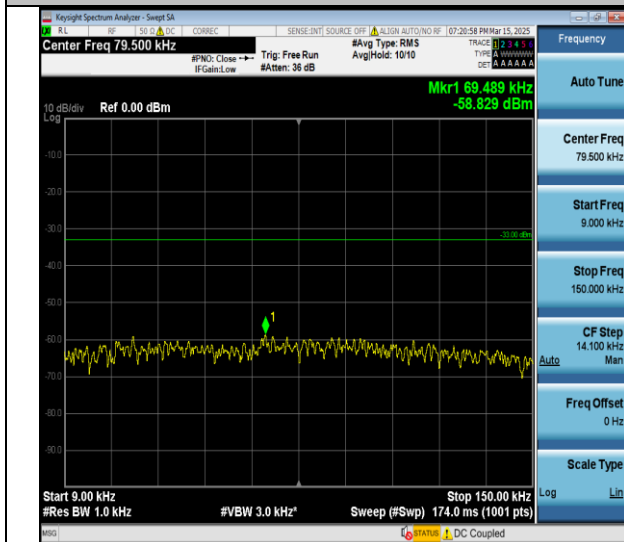
Band71-20MHz-QPSK-133322-1RB#0-30~1000-PASS



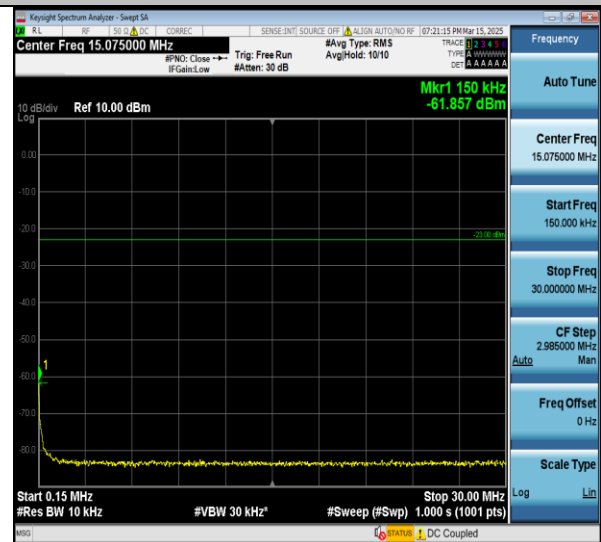
Band71-20MHz-QPSK-133322-1RB#0-1000~3000-PASS



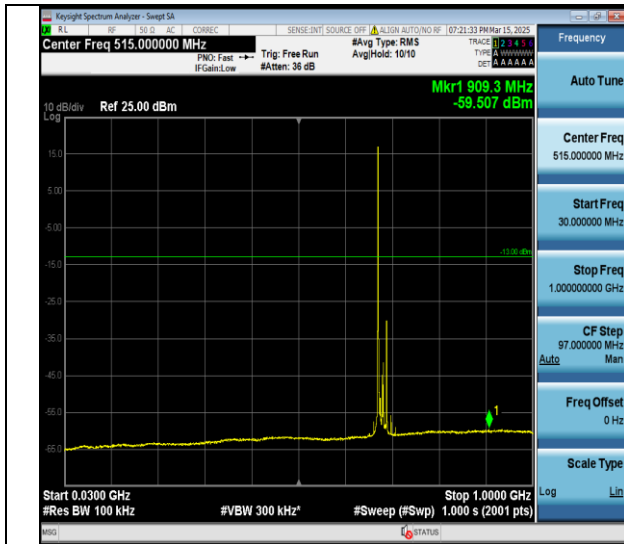
Band71-20MHz-QPSK-133322-1RB#0-3000~10000-PASS



Band71-20MHz-QPSK-133372-1RB#0-0.009~0.15-PASS



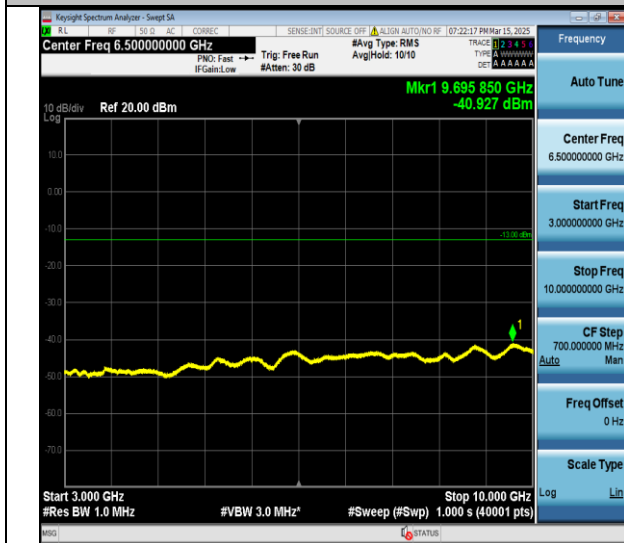
Band71-20MHz-QPSK-133372-1RB#0-0.15~30-PASS



Band71-20MHz-QPSK-133372-1RB#0-30~1000-PASS



Band71-20MHz-QPSK-133372-1RB#0-1000~3000-PASS



Band71-20MHz-QPSK-133372-1RB#0-3000~10000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-3.10	-0.004539	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	0.90	0.001318	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	0.00	0.000000	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-0.30	-0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	1.00	0.001464	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	0.70	0.001025	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-1.00	-0.001464	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-1.60	-0.002343	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	1.80	0.002635	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-0.60	-0.000878	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	0.30	0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-1.60	-0.002343	PASS

~The End~