

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	23.08	20.03	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.16	20.11	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.27	20.22	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.47	19.42	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.36	19.31	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.45	19.4	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.44	19.39	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.39	18.34	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.3	20.25	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.54	20.49	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.27	20.22	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.38	19.33	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.26	19.21	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.45	19.4	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.36	19.31	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.47	18.42	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.36	20.31	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.43	20.38	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.16	20.11	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.32	19.27	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.27	19.22	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.5	19.45	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.41	19.36	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.46	18.41	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.28	20.23	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.67	20.62	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.16	20.11	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.36	19.31	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.45	19.4	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.22	19.17	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.27	19.22	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.35	18.3	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.28	20.23	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.62	20.57	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.24	20.19	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.47	19.42	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.14	19.09	34.77	PASS

Band71	10MHz	16QAM	133297	1RB#24	22.35	19.3	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.53	19.48	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.48	18.43	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.54	20.49	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.79	20.74	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.25	20.2	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.51	19.46	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.28	19.23	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.35	19.3	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.34	19.29	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.5	18.45	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.34	20.29	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.22	20.17	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.08	20.03	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.38	19.33	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.56	19.51	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.27	19.22	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.26	19.21	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.37	18.32	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.29	20.24	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.35	20.3	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.33	20.28	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.46	19.41	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.13	19.08	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.41	19.36	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.24	19.19	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.45	18.4	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.43	20.38	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.7	20.65	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.29	20.24	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.53	19.48	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.51	19.46	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.14	19.09	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.67	19.62	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.63	18.58	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.59	20.54	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.69	20.64	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.2	20.15	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.38	19.33	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.81	19.76	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.87	19.82	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.67	19.62	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.38	18.33	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.25	20.2	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.48	20.43	34.77	PASS

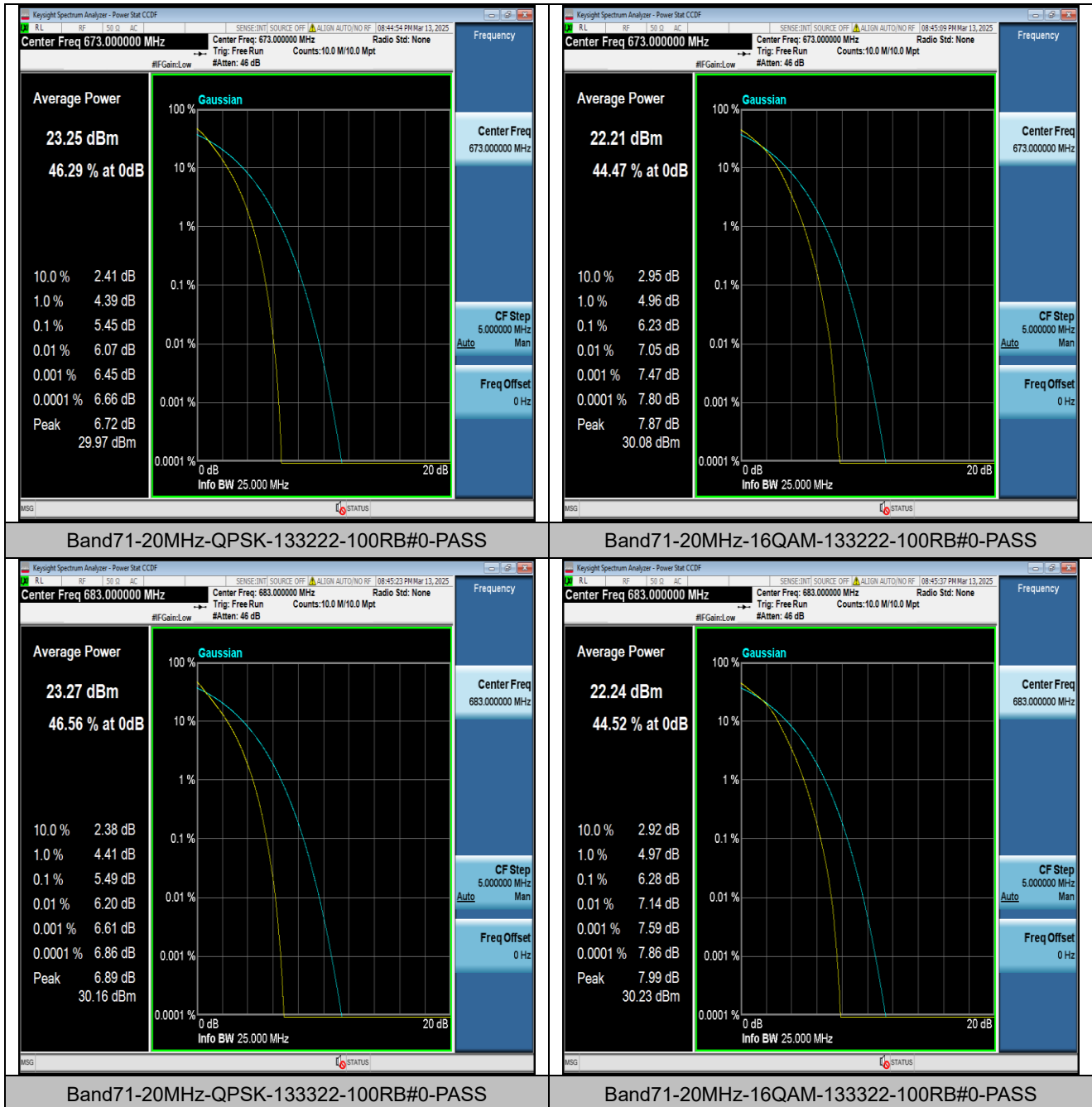
Band71	20MHz	QPSK	133322	1RB#99	23.31	20.26	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.46	19.41	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.3	19.25	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.21	19.16	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.16	19.11	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.44	18.39	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.23	20.18	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.44	20.39	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.09	20.04	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.49	19.44	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.25	19.2	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.5	19.45	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.31	19.26	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.41	18.36	34.77	PASS

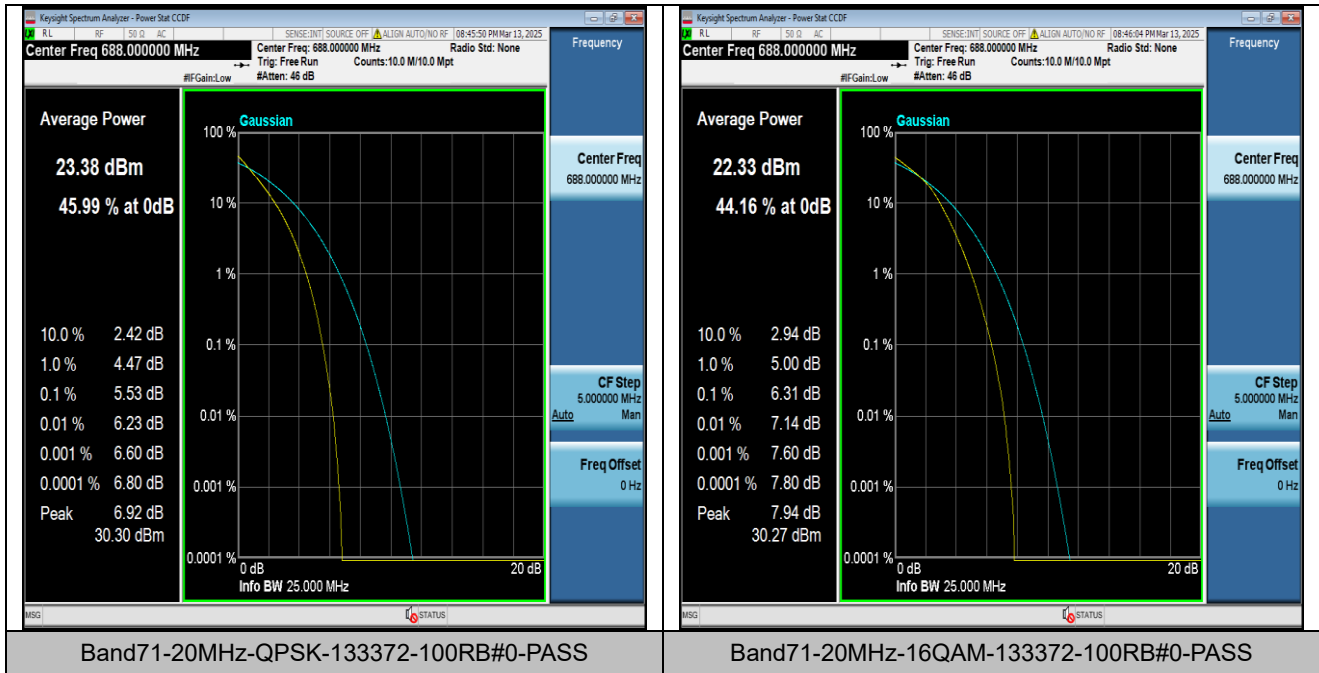
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.45	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.23	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.49	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.28	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.53	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.31	13	PASS

Test Graphs



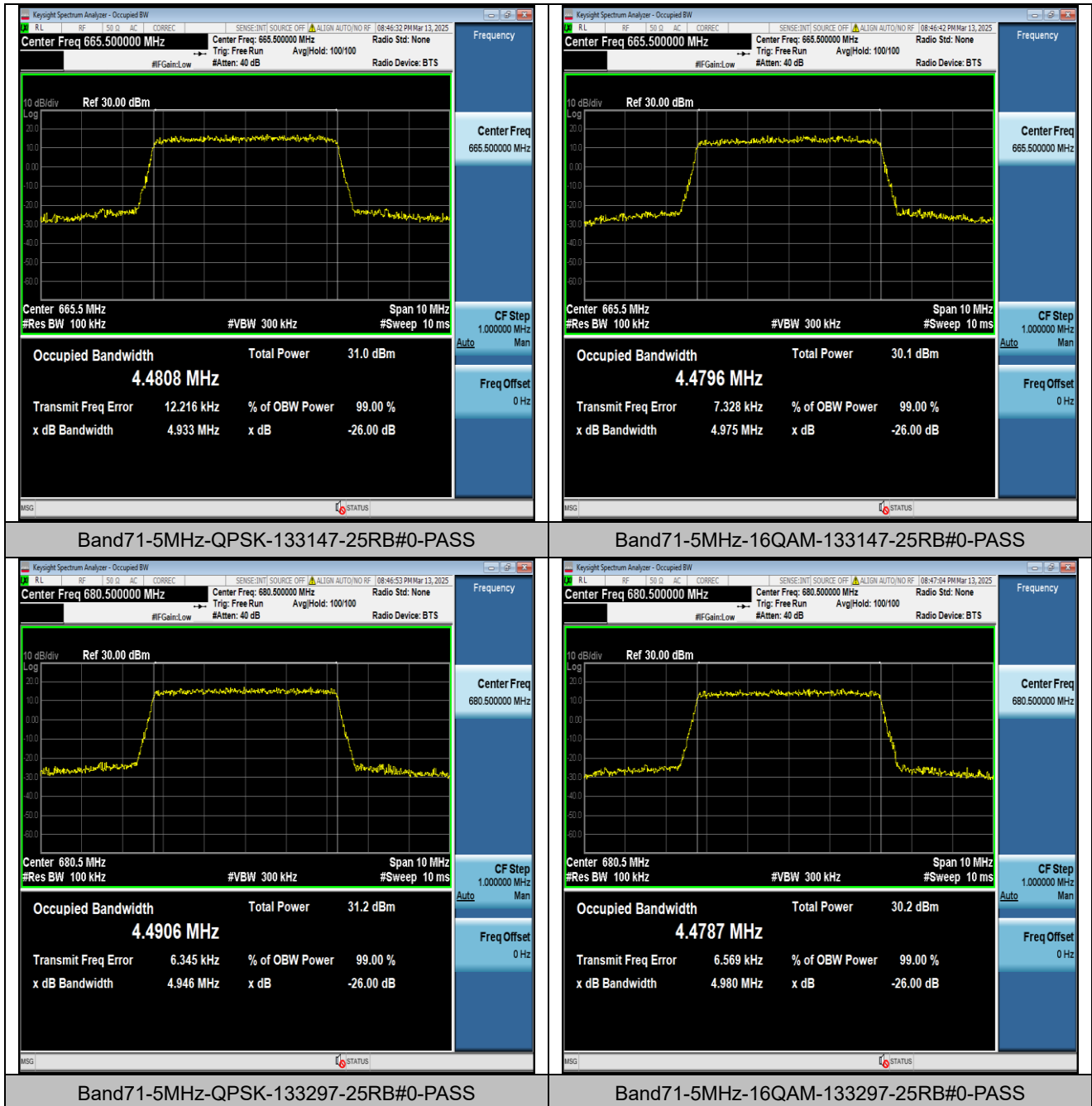


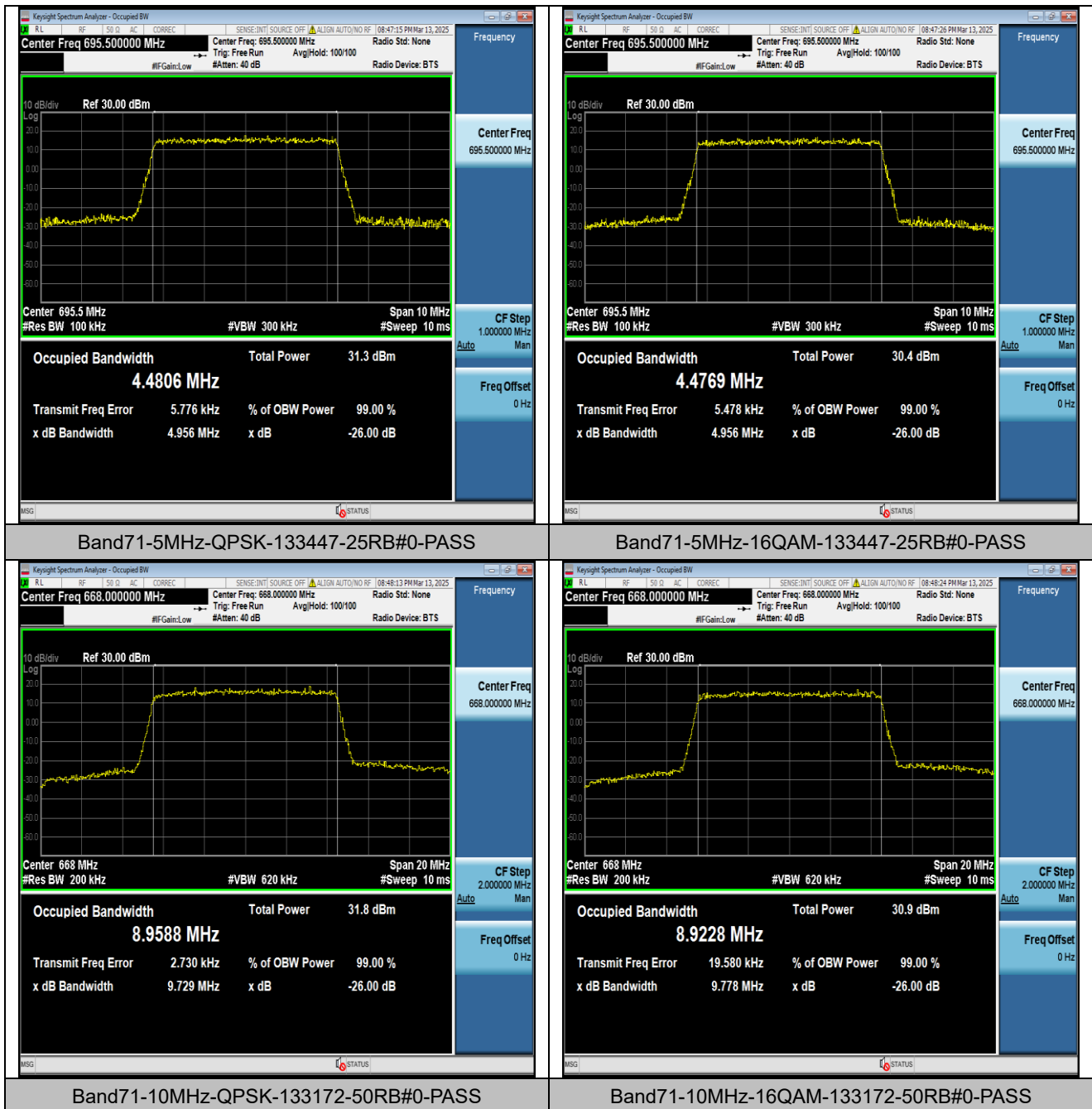
26dB Bandwidth and Occupied Bandwidth

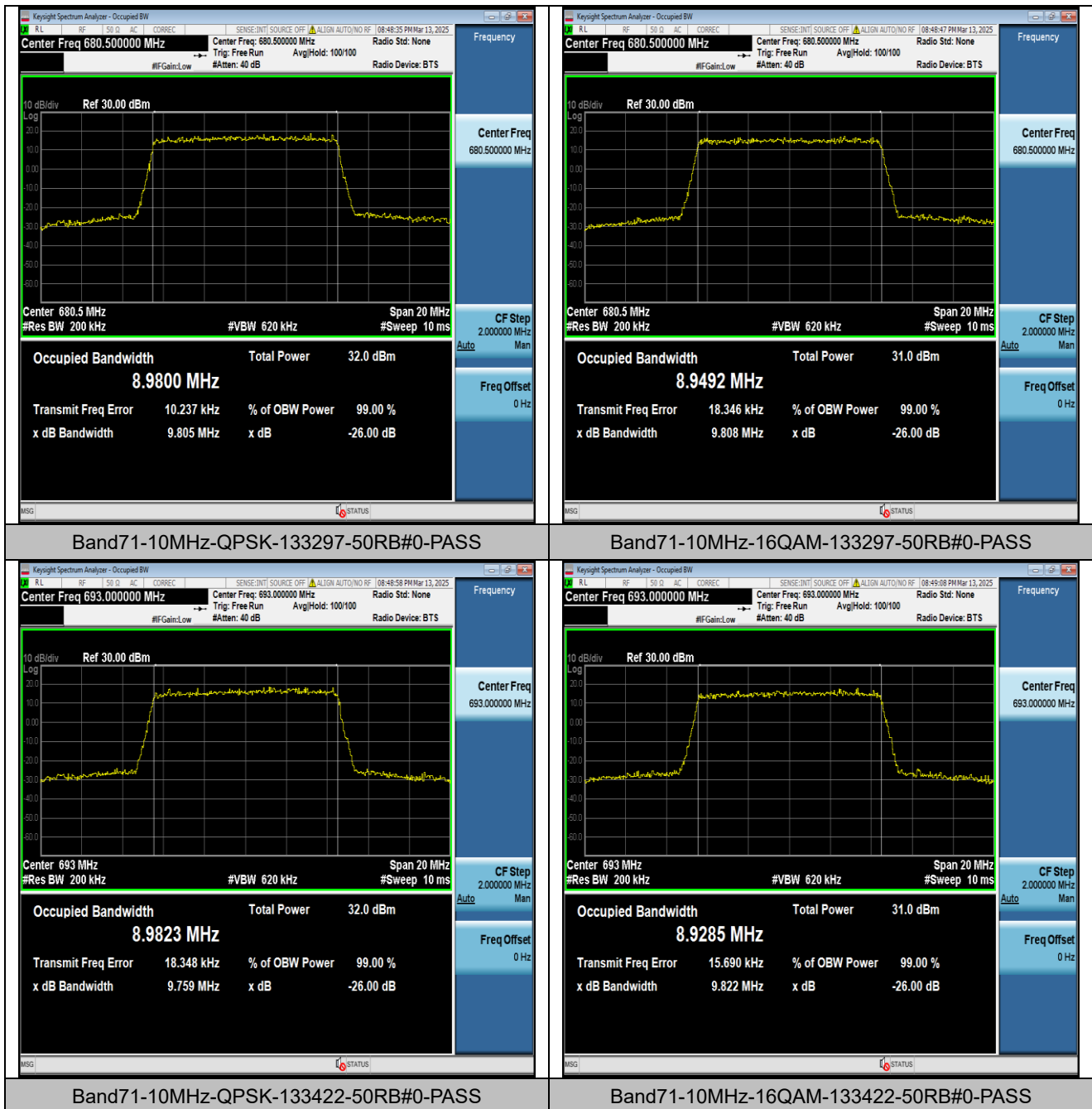
Test Result

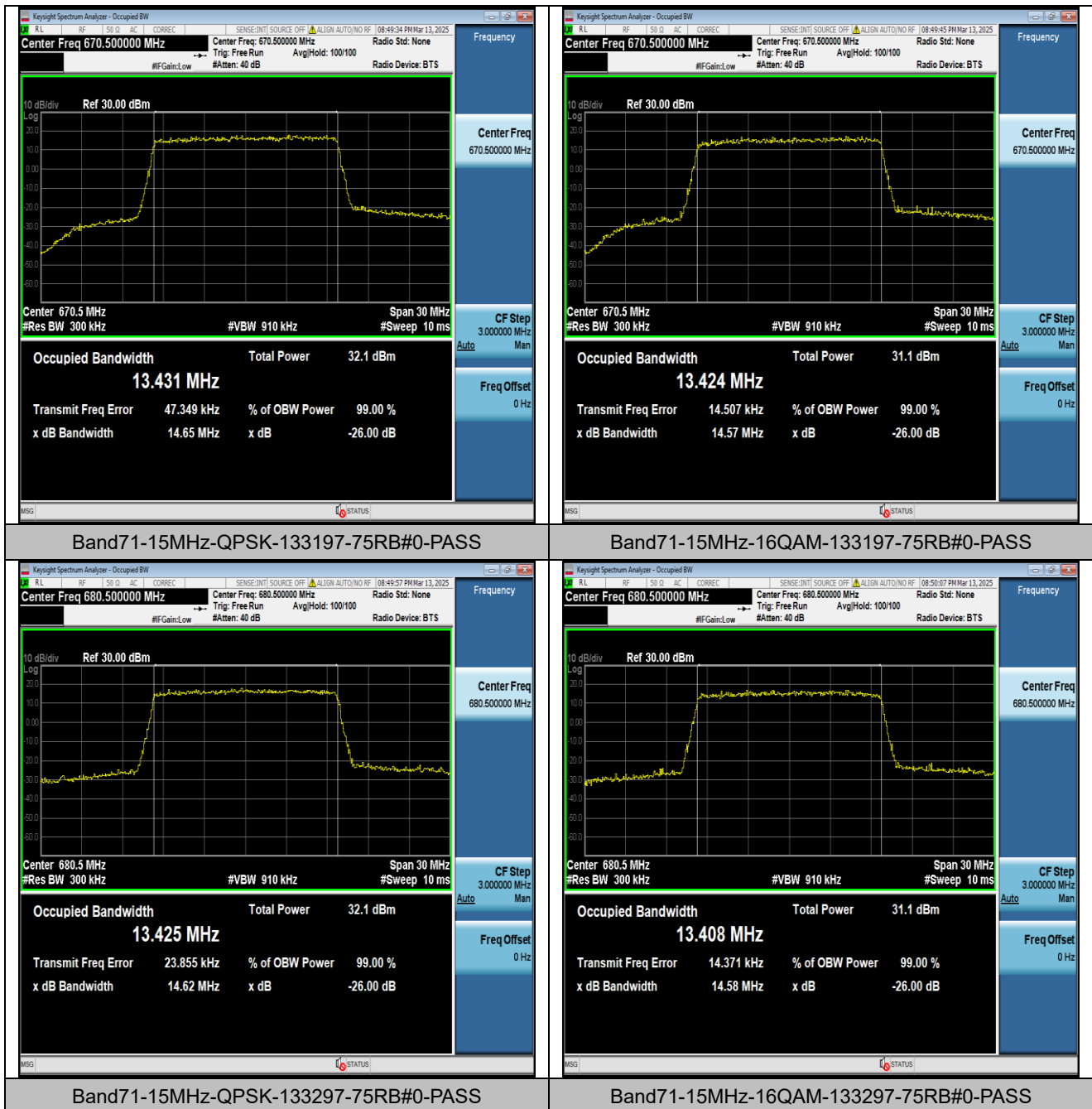
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.4808	4.933	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.4796	4.975	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.4906	4.946	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.4787	4.980	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.4806	4.956	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.4769	4.956	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.9588	9.729	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.9228	9.778	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.9800	9.805	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.9492	9.808	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.9823	9.759	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.9285	9.822	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.431	14.65	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.424	14.57	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.425	14.62	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.408	14.58	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.433	14.71	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.442	14.70	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.857	19.34	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.853	19.40	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.918	19.31	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.889	19.34	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.886	19.38	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.937	19.28	PASS

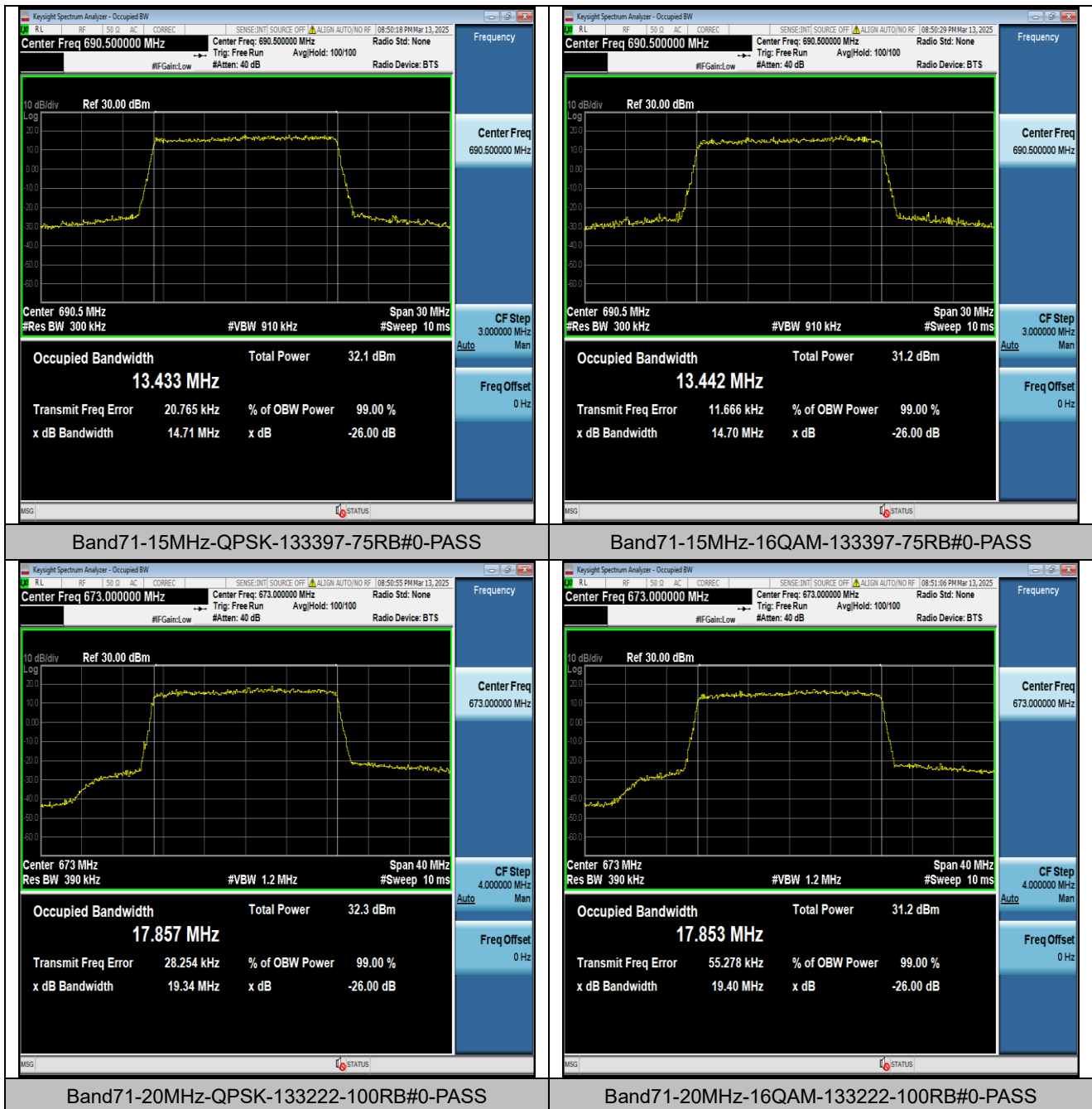
Test Graphs

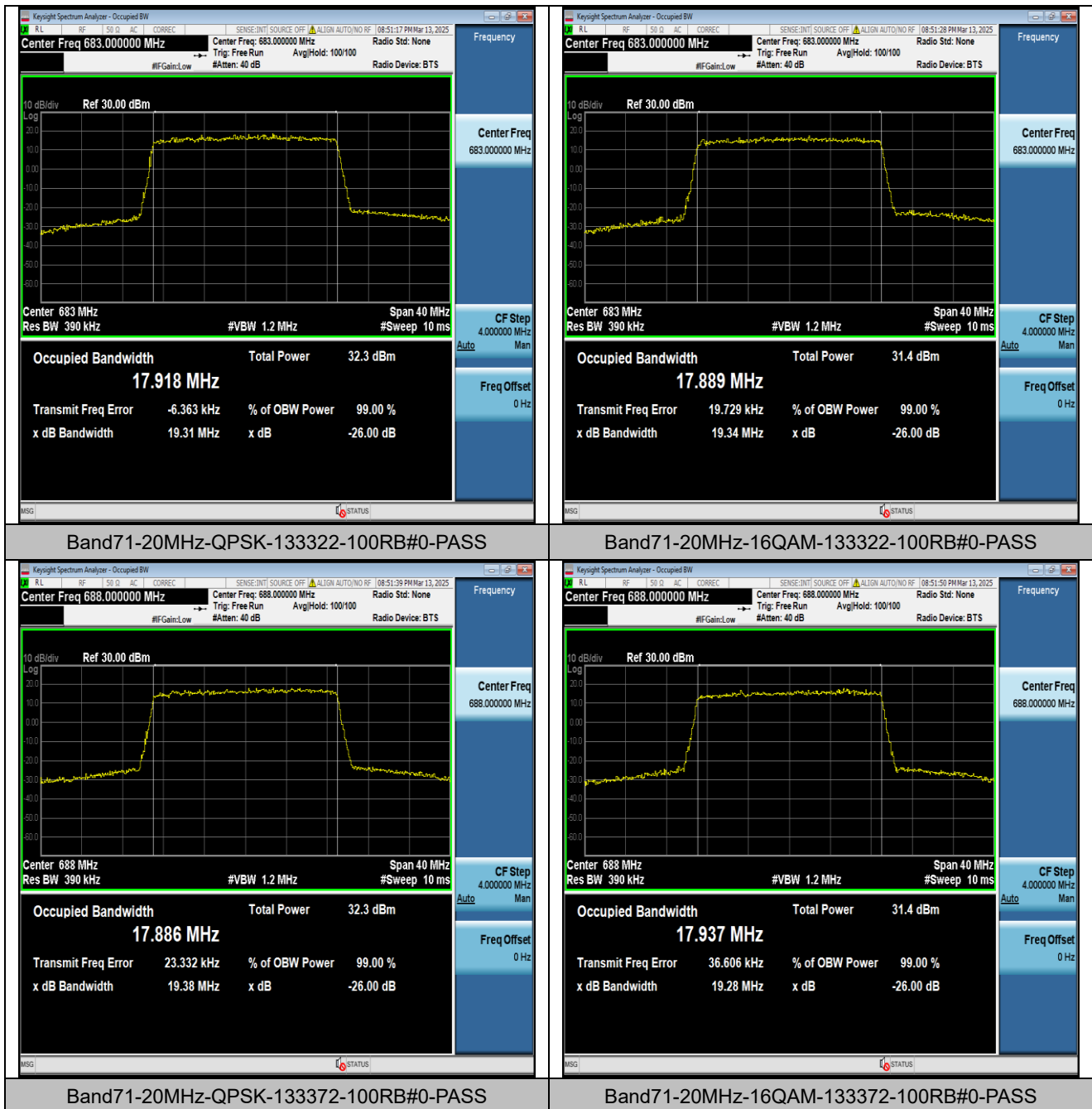






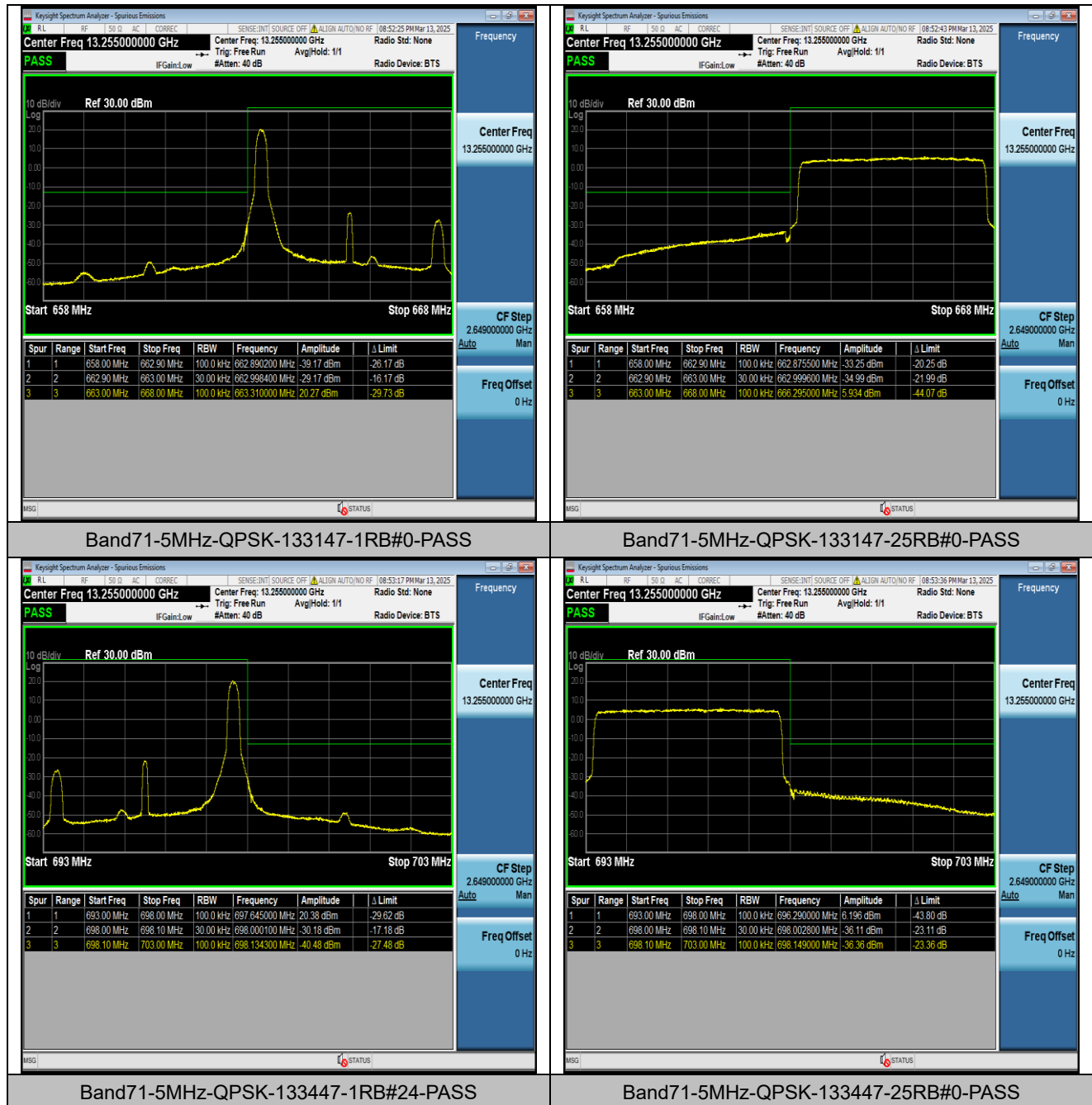


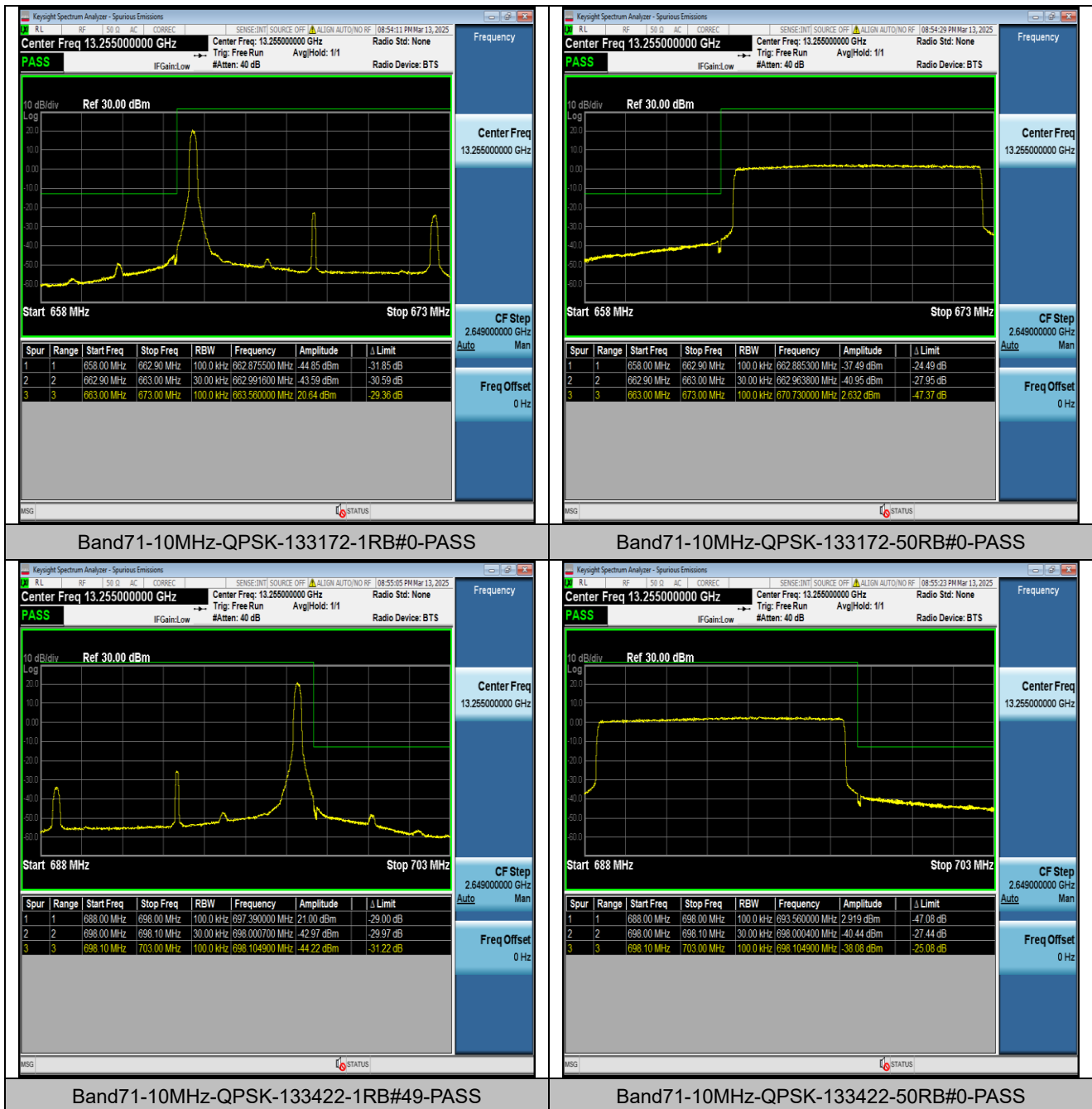


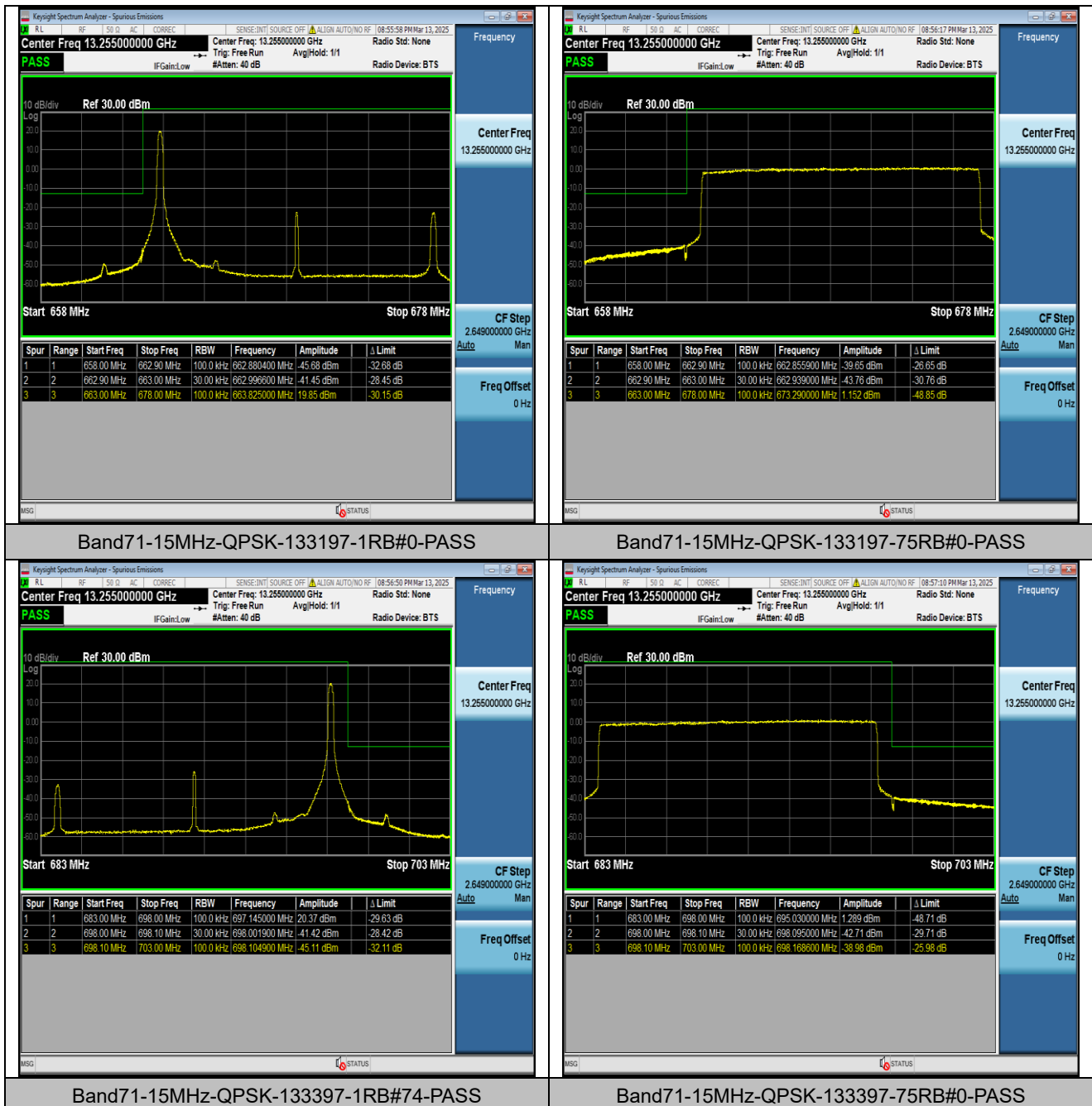


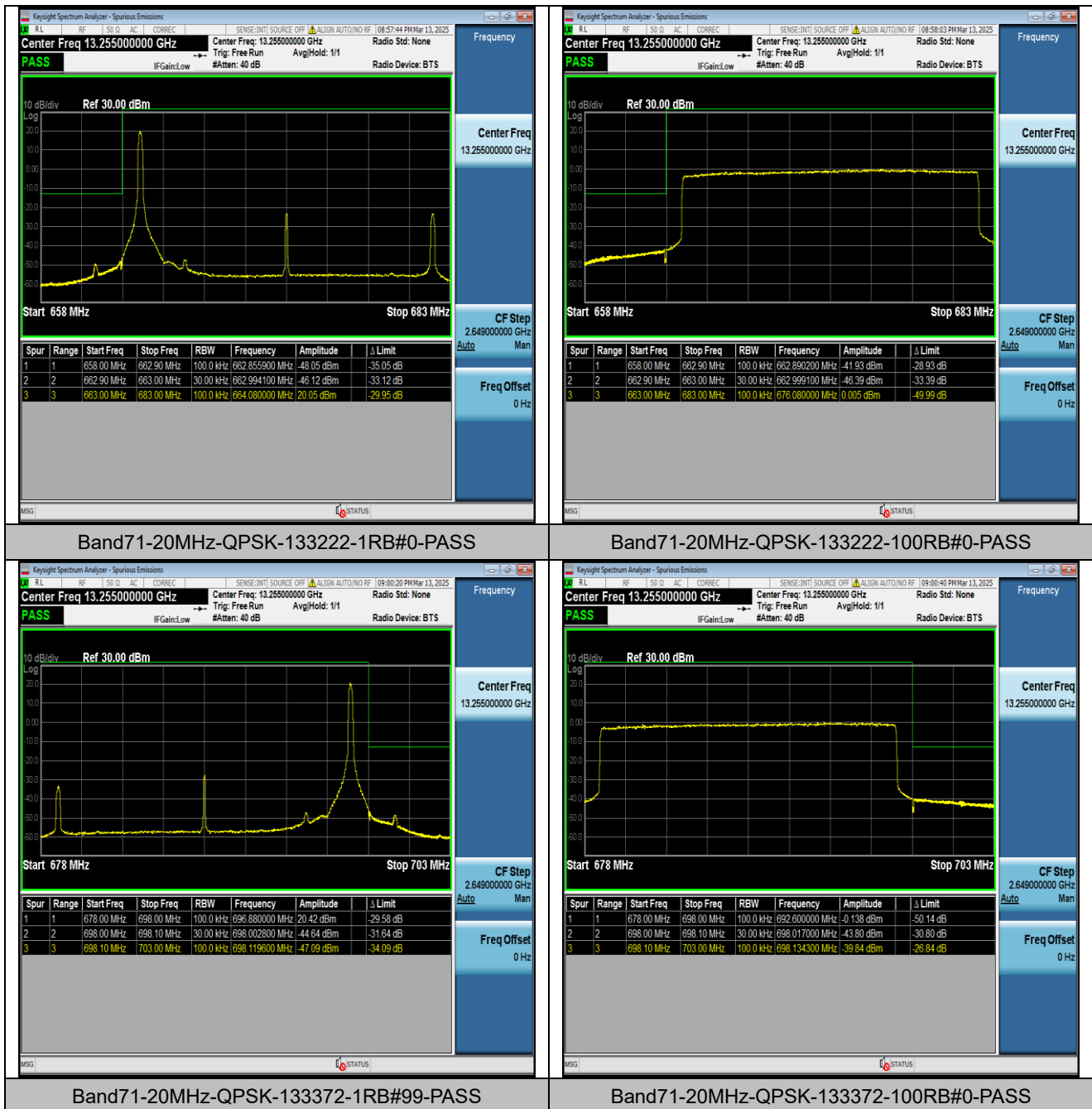
Band Edge

Test Graphs



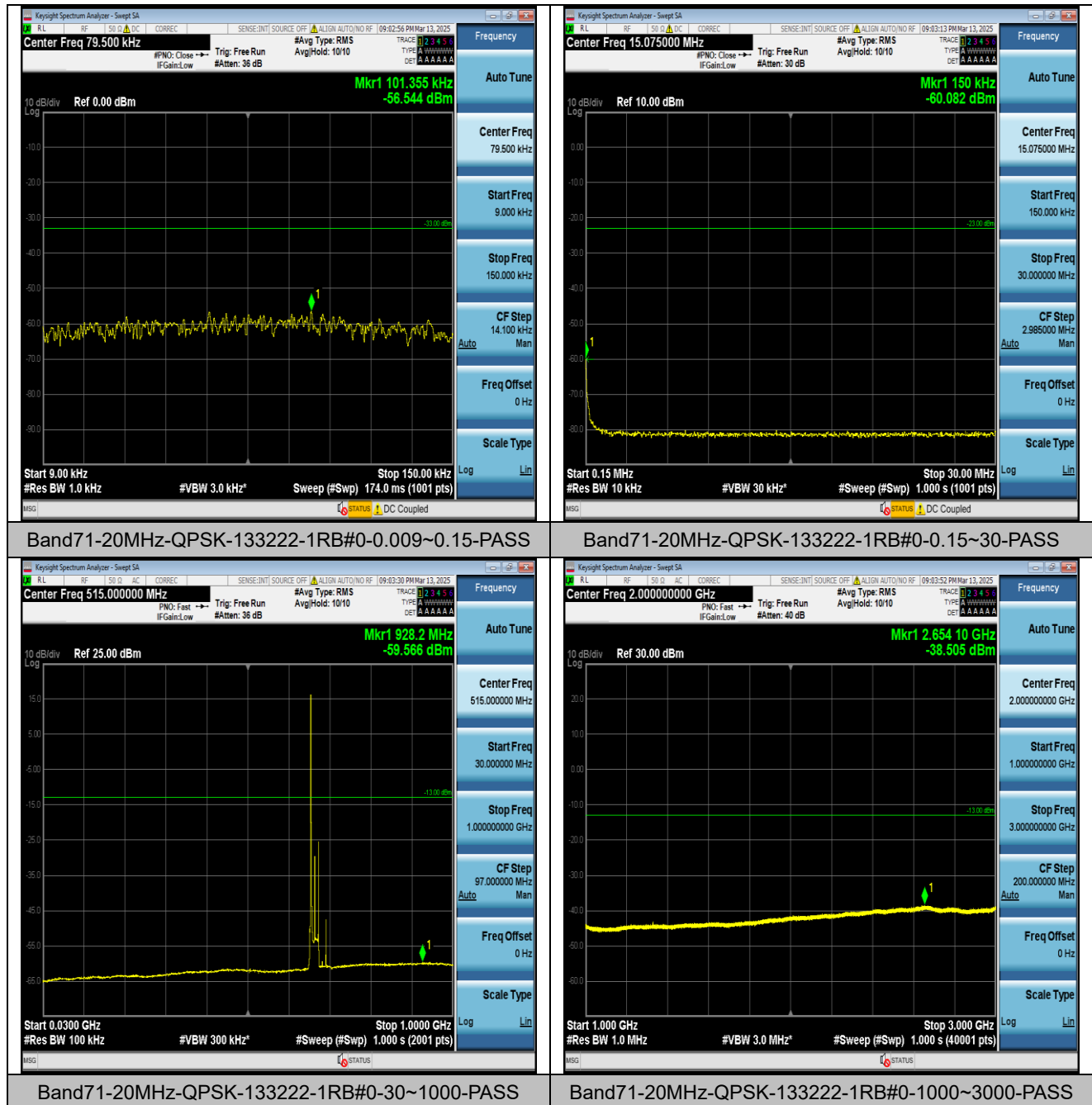


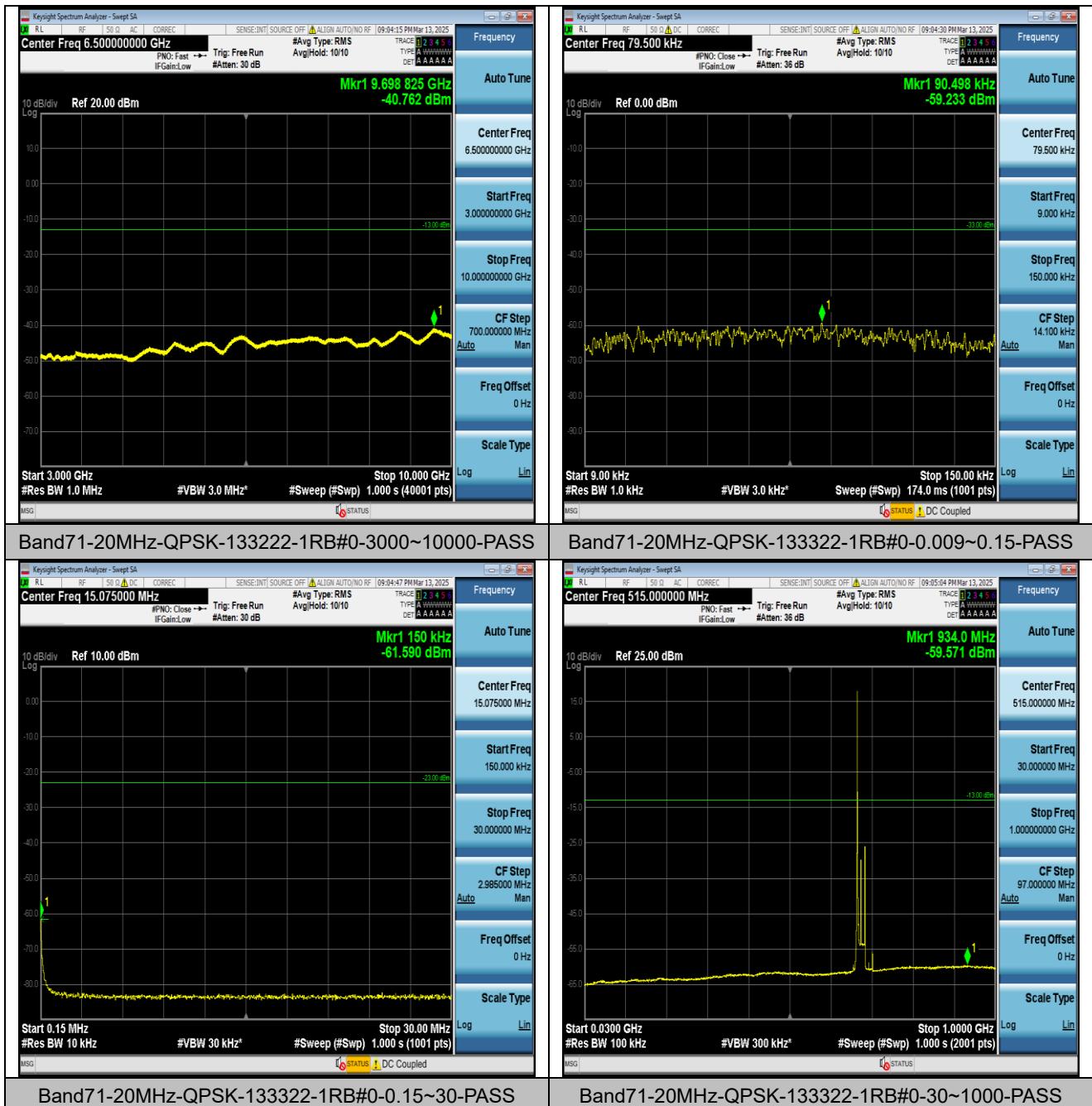


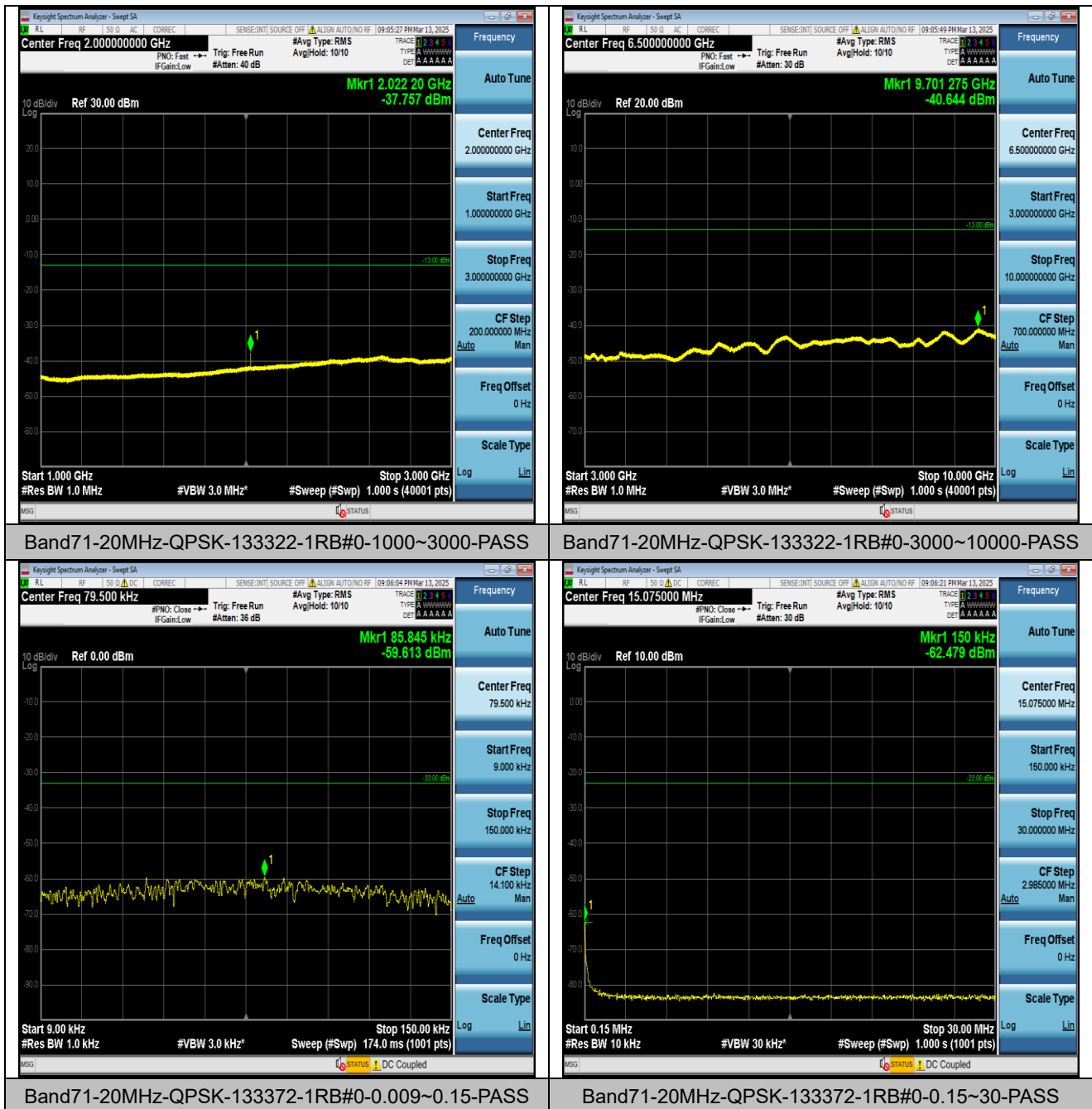


Conducted Spurious Emission

Test Graphs

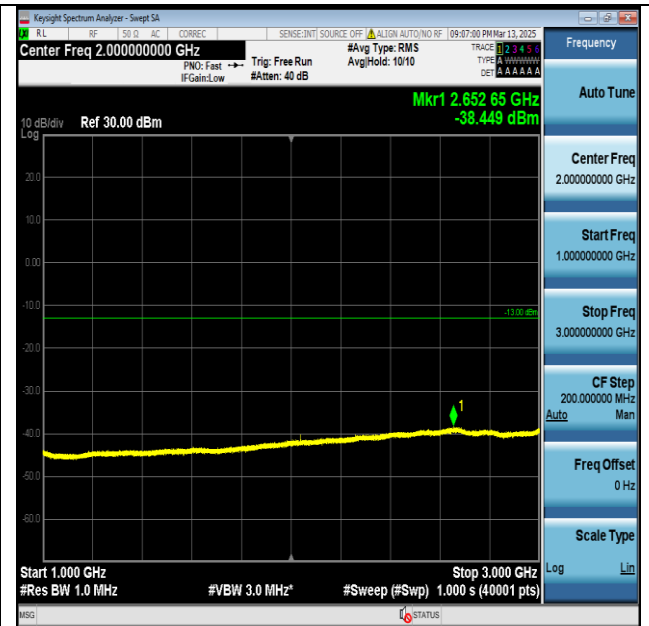




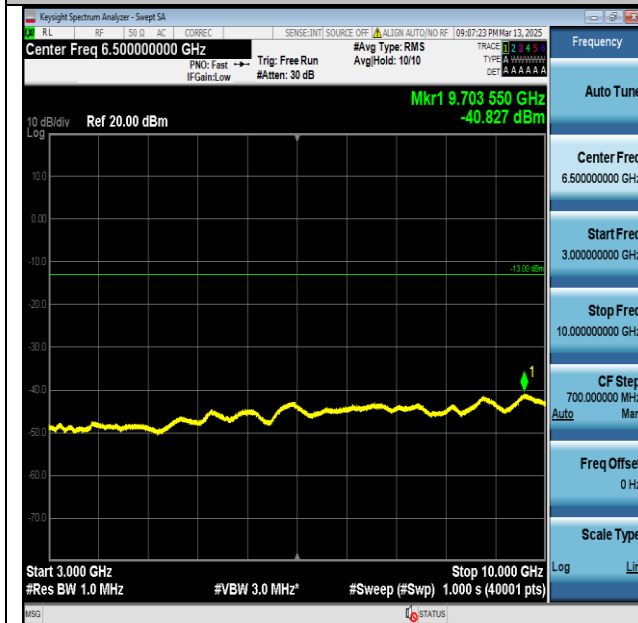




Band71-20MHz-QPSK-133372-1RB#0-30~1000-PASS



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	-1.40	-0.002050	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-1.20	-0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-0.80	-0.001171	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	-1.10	-0.001611	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	0.20	0.000293	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	0.50	0.000732	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-1.10	-0.001611	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-0.30	-0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-1.10	-0.001611	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-2.00	-0.002928	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	0.90	0.001318	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-1.20	-0.001757	PASS

~The End~