

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	22.2	18.73	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	21.93	18.46	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	21.65	18.18	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	20.69	17.22	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	21.72	18.25	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	21.84	18.37	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	21.69	18.22	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	20.74	17.27	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	21.51	18.04	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	21.83	18.36	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	21.55	18.08	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	20.62	17.15	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	20.61	17.14	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.25	17.78	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	20.69	17.22	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	19.67	16.2	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	20.78	17.31	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	21.26	17.79	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	20.64	17.17	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	19.8	16.33	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	20.55	17.08	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.21	17.74	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	20.57	17.1	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	19.62	16.15	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#0	20.66	17.19	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#12	21.08	17.61	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#24	20.46	16.99	34.77	PASS
Band71	5MHz	64QAM	133147	25RB#0	19.57	16.1	34.77	PASS
Band71	5MHz	64QAM	133297	1RB#0	20.65	17.18	34.77	PASS
Band71	5MHz	64QAM	133297	1RB#12	21.04	17.57	34.77	PASS
Band71	5MHz	64QAM	133297	1RB#24	20.61	17.14	34.77	PASS
Band71	5MHz	64QAM	133297	25RB#0	19.63	16.16	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#0	20.61	17.14	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#12	20.88	17.41	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#24	20.44	16.97	34.77	PASS
Band71	5MHz	64QAM	133447	25RB#0	19.63	16.16	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.19	18.72	34.77	PASS

Band71	10MHz	QPSK	133172	1RB#24	21.85	18.38	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	21.74	18.27	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	20.61	17.14	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	21.81	18.34	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	21.9	18.43	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	21.71	18.24	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	20.75	17.28	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	21.66	18.19	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	21.75	18.28	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	21.57	18.1	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	20.6	17.13	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	20.79	17.32	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.29	17.82	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	20.96	17.49	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	19.61	16.14	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	20.93	17.46	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.15	17.68	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	20.88	17.41	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	19.78	16.31	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	20.79	17.32	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.06	17.59	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	20.76	17.29	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	19.53	16.06	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#0	20.71	17.24	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#24	20.87	17.4	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#49	20.73	17.26	34.77	PASS
Band71	10MHz	64QAM	133172	50RB#0	19.52	16.05	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#0	20.86	17.39	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#24	20.82	17.35	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#49	20.65	17.18	34.77	PASS
Band71	10MHz	64QAM	133297	50RB#0	19.66	16.19	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#0	20.74	17.27	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#24	20.87	17.4	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#49	20.45	16.98	34.77	PASS
Band71	10MHz	64QAM	133422	50RB#0	19.63	16.16	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.18	18.71	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	21.95	18.48	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	21.72	18.25	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	20.68	17.21	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	21.71	18.24	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	21.75	18.28	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	21.6	18.13	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	20.78	17.31	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	21.61	18.14	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	21.62	18.15	34.77	PASS

Band71	15MHz	QPSK	133397	1RB#74	21.51	18.04	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	20.71	17.24	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	20.88	17.41	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.12	17.65	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	21	17.53	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	19.76	16.29	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	20.92	17.45	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.03	17.56	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	20.74	17.27	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	19.78	16.31	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	20.8	17.33	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	20.96	17.49	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	20.66	17.19	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	19.64	16.17	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#0	20.54	17.07	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#38	20.82	17.35	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#74	20.61	17.14	34.77	PASS
Band71	15MHz	64QAM	133197	75RB#0	19.55	16.08	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#0	20.66	17.19	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#38	20.82	17.35	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#74	20.51	17.04	34.77	PASS
Band71	15MHz	64QAM	133297	75RB#0	19.65	16.18	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#0	20.66	17.19	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#38	20.7	17.23	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#74	20.55	17.08	34.77	PASS
Band71	15MHz	64QAM	133397	75RB#0	19.64	16.17	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	21.62	18.15	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	21.94	18.47	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	21.61	18.14	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	20.8	17.33	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	21.66	18.19	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	21.86	18.39	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	21.51	18.04	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	20.59	17.12	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	21.57	18.1	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	21.71	18.24	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	21.37	17.9	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	20.58	17.11	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	20.51	17.04	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.24	17.77	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	20.56	17.09	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	19.77	16.3	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	20.64	17.17	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.14	17.67	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	20.45	16.98	34.77	PASS

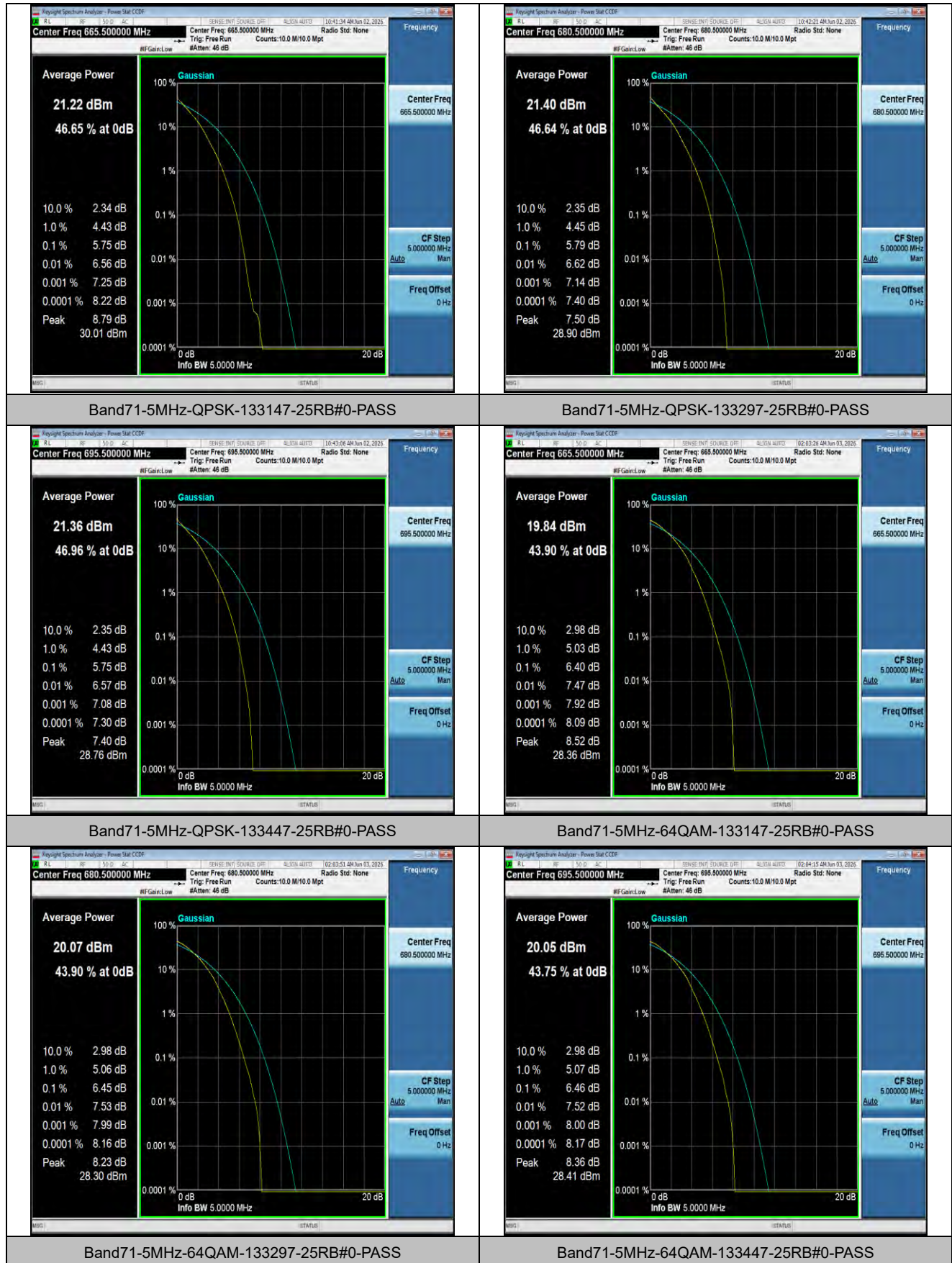
Band71	20MHz	16QAM	133322	100RB#0	19.65	16.18	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	20.71	17.24	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.19	17.72	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	20.61	17.14	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	19.61	16.14	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#0	20.56	17.09	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#49	20.94	17.47	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#99	20.41	16.94	34.77	PASS
Band71	20MHz	64QAM	133222	100RB#0	19.63	16.16	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#0	20.72	17.25	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#49	20.91	17.44	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#99	20.43	16.96	34.77	PASS
Band71	20MHz	64QAM	133322	100RB#0	19.56	16.09	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#0	20.49	17.02	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#49	20.72	17.25	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#99	20.51	17.04	34.77	PASS
Band71	20MHz	64QAM	133372	100RB#0	19.57	16.1	34.77	PASS

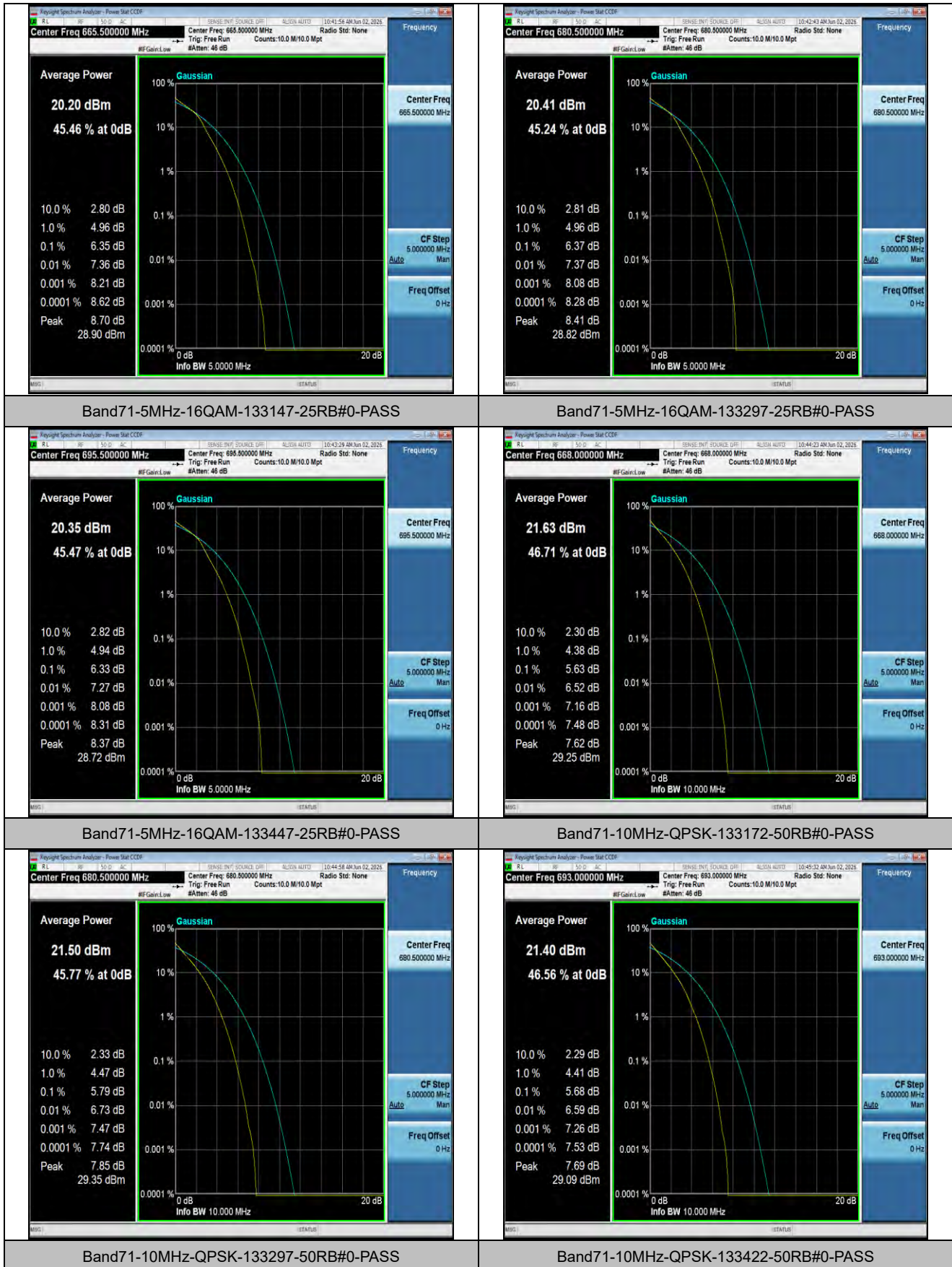
Peak-to-Average Ratio(CCDF)

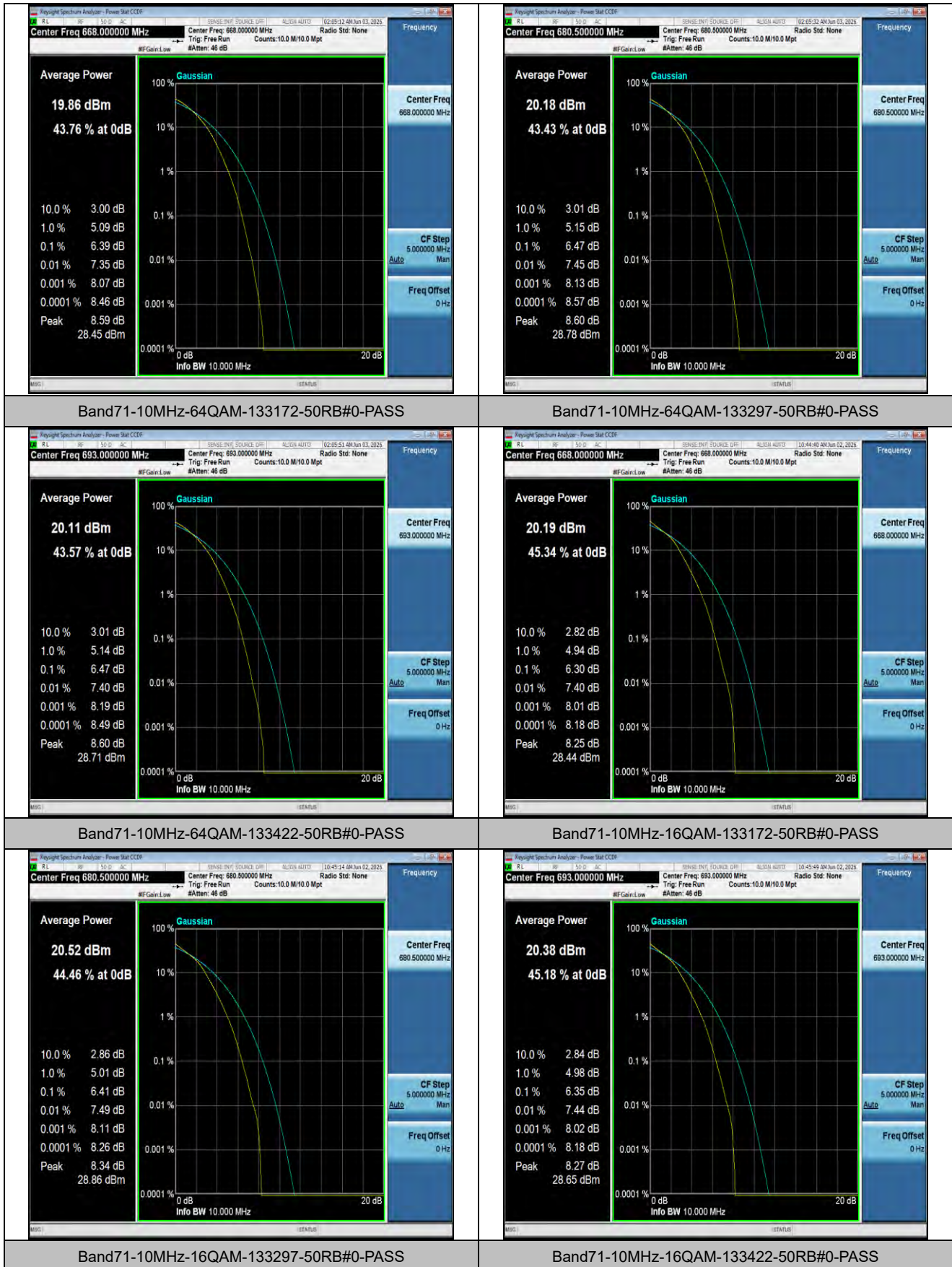
Test Result

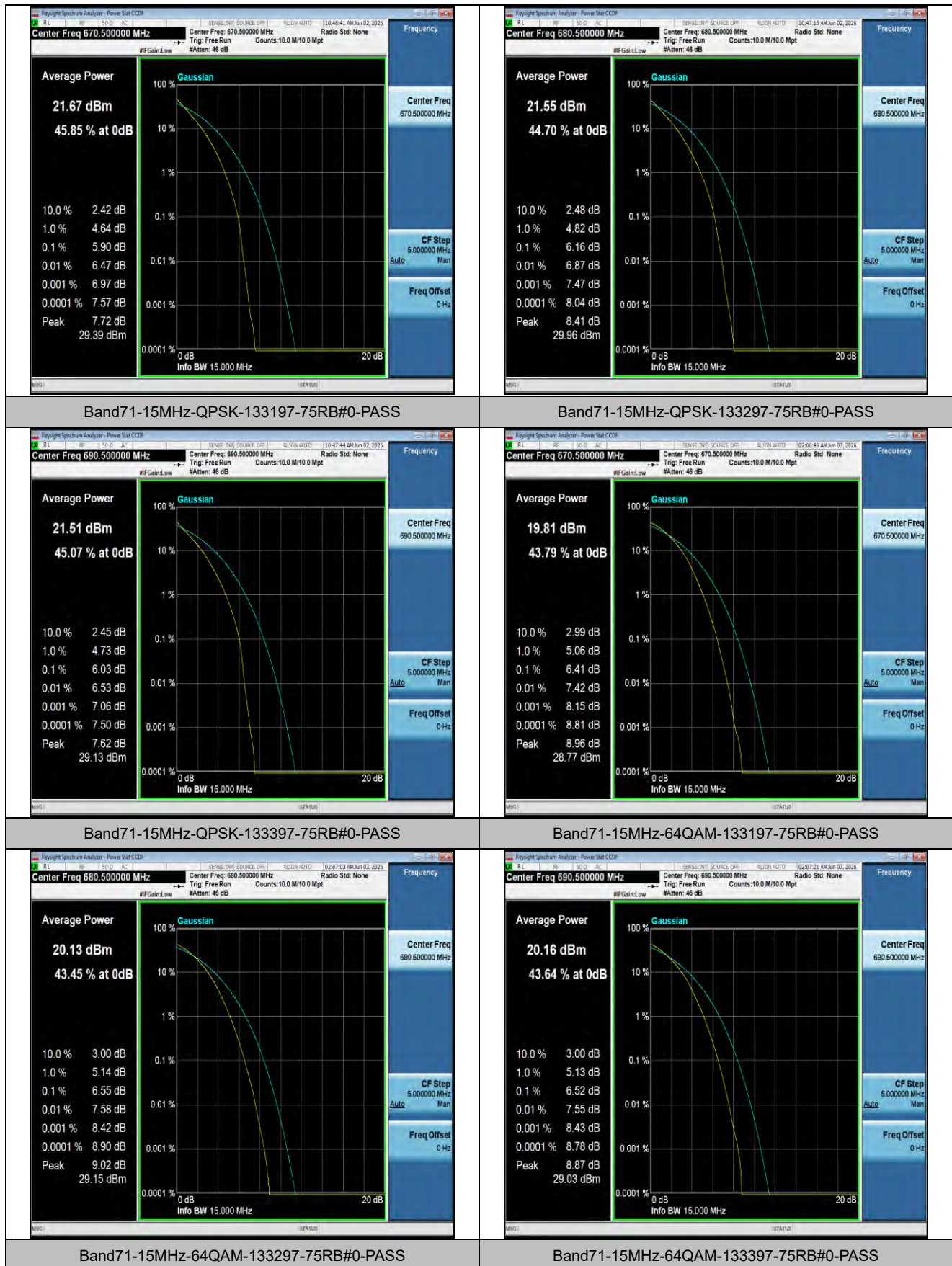
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	5.75	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.79	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.75	13	PASS
Band71	5MHz	64QAM	133147	25RB#0	6.40	13	PASS
Band71	5MHz	64QAM	133297	25RB#0	6.45	13	PASS
Band71	5MHz	64QAM	133447	25RB#0	6.46	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	6.35	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	6.37	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	6.33	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.63	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.79	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.68	13	PASS
Band71	10MHz	64QAM	133172	50RB#0	6.39	13	PASS
Band71	10MHz	64QAM	133297	50RB#0	6.47	13	PASS
Band71	10MHz	64QAM	133422	50RB#0	6.47	13	PASS
Band71	10MHz	16QAM	133172	50RB#0	6.30	13	PASS
Band71	10MHz	16QAM	133297	50RB#0	6.41	13	PASS
Band71	10MHz	16QAM	133422	50RB#0	6.35	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.90	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	6.16	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	6.03	13	PASS
Band71	15MHz	64QAM	133197	75RB#0	6.41	13	PASS
Band71	15MHz	64QAM	133297	75RB#0	6.55	13	PASS
Band71	15MHz	64QAM	133397	75RB#0	6.52	13	PASS
Band71	15MHz	16QAM	133197	75RB#0	6.40	13	PASS
Band71	15MHz	16QAM	133297	75RB#0	6.52	13	PASS
Band71	15MHz	16QAM	133397	75RB#0	6.42	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.64	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.65	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.59	13	PASS
Band71	20MHz	64QAM	133222	100RB#0	6.41	13	PASS
Band71	20MHz	64QAM	133322	100RB#0	6.47	13	PASS
Band71	20MHz	64QAM	133372	100RB#0	6.44	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.36	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.36	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.31	13	PASS

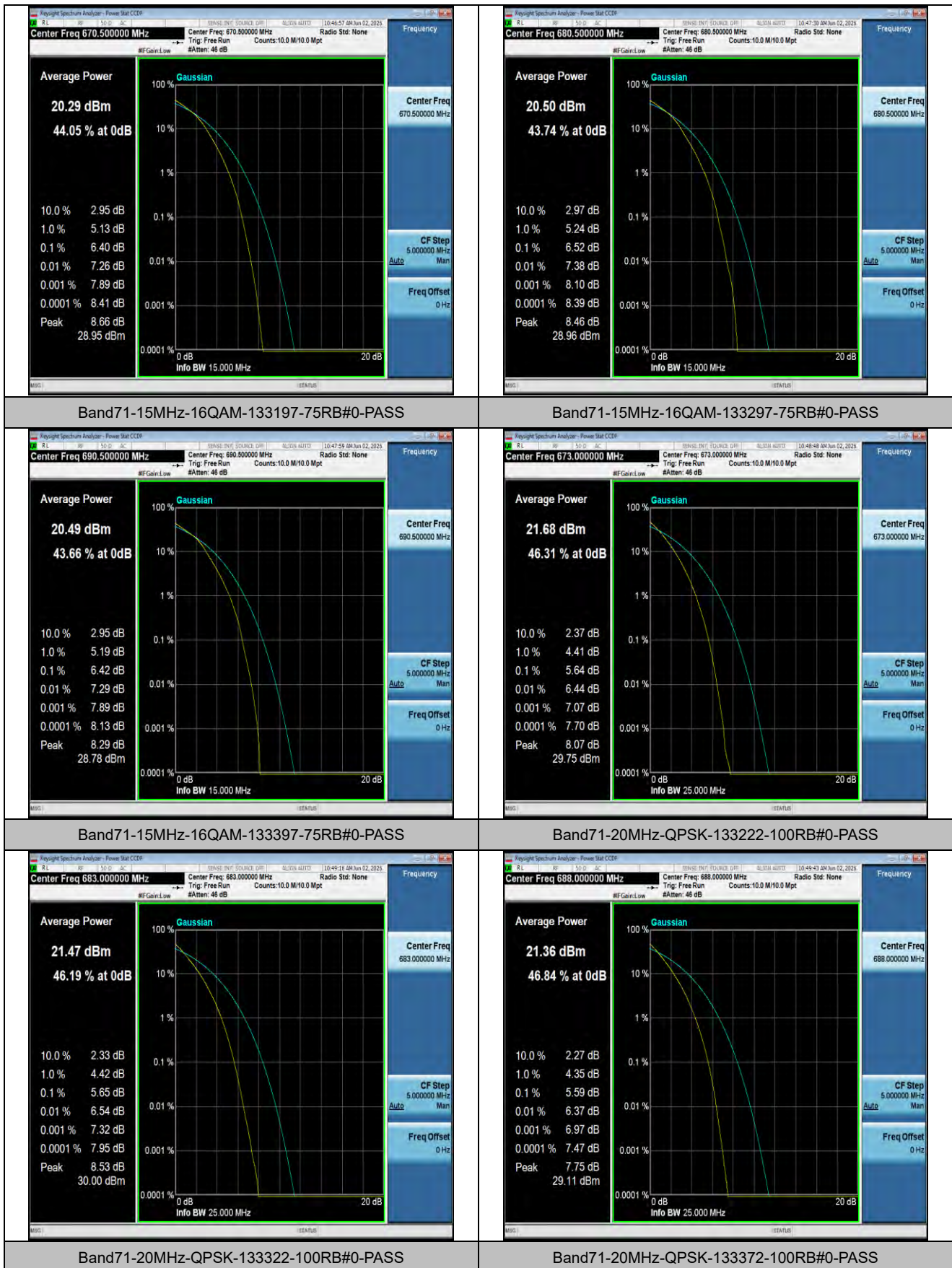
Test Graphs

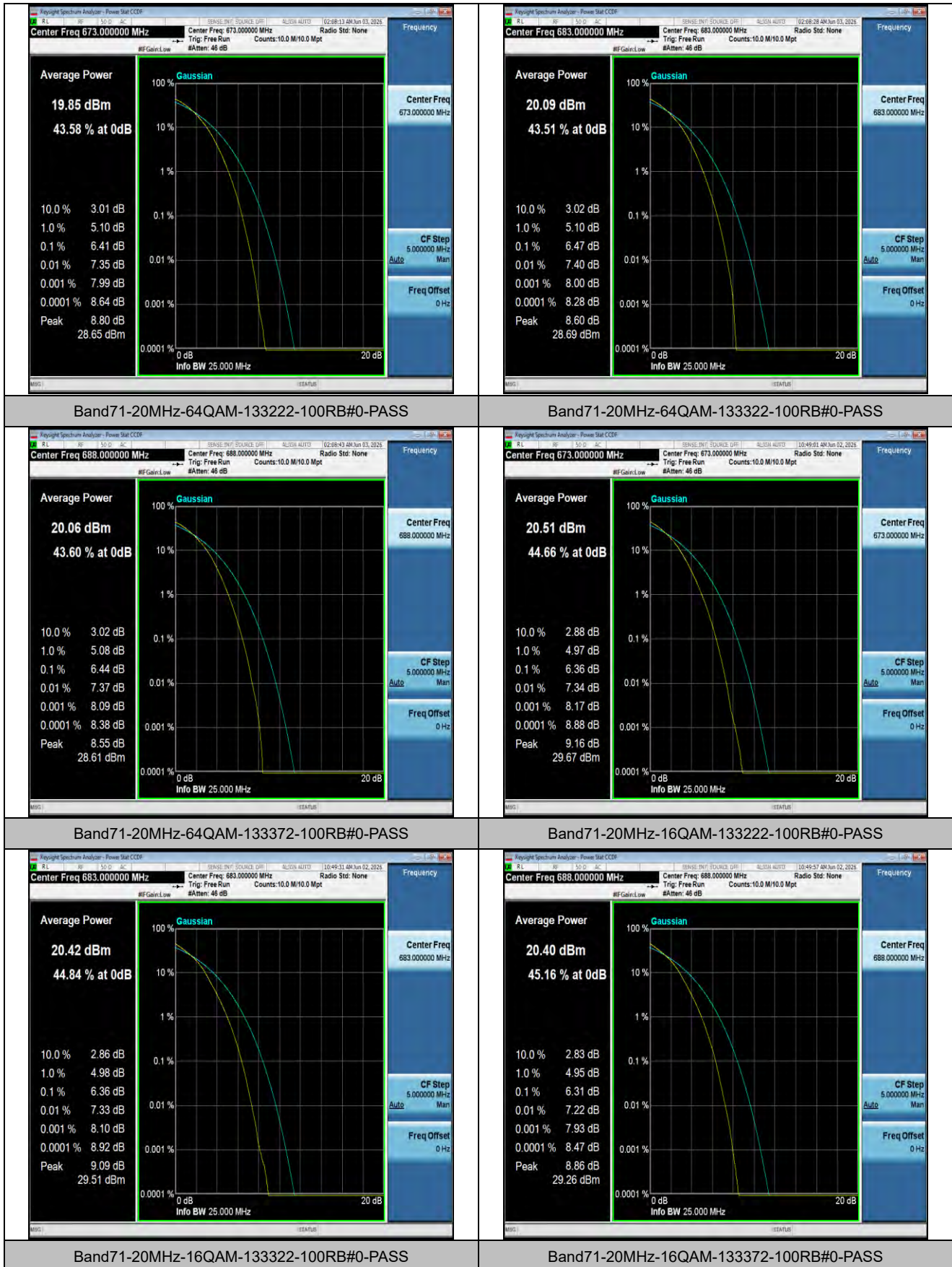










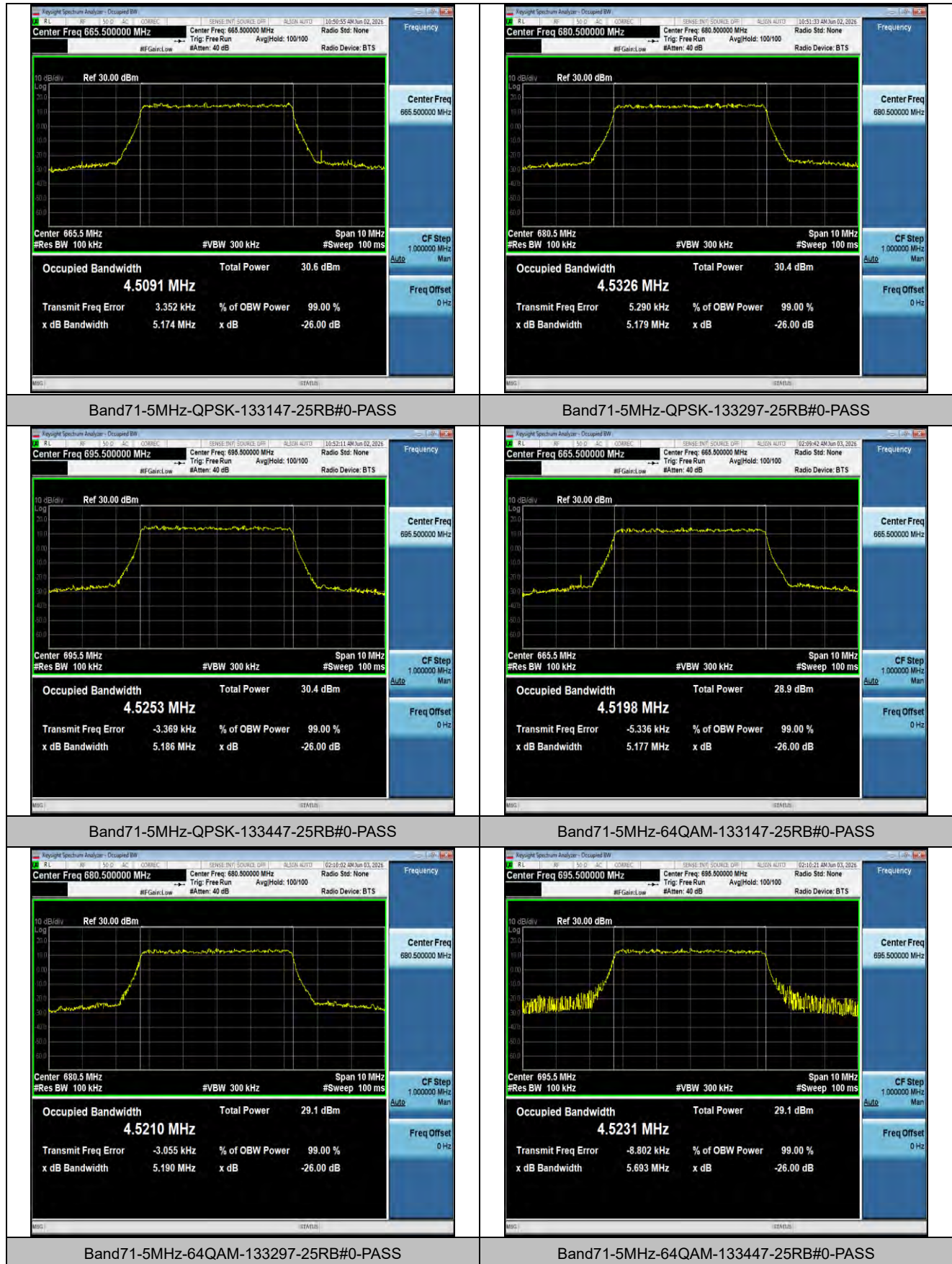


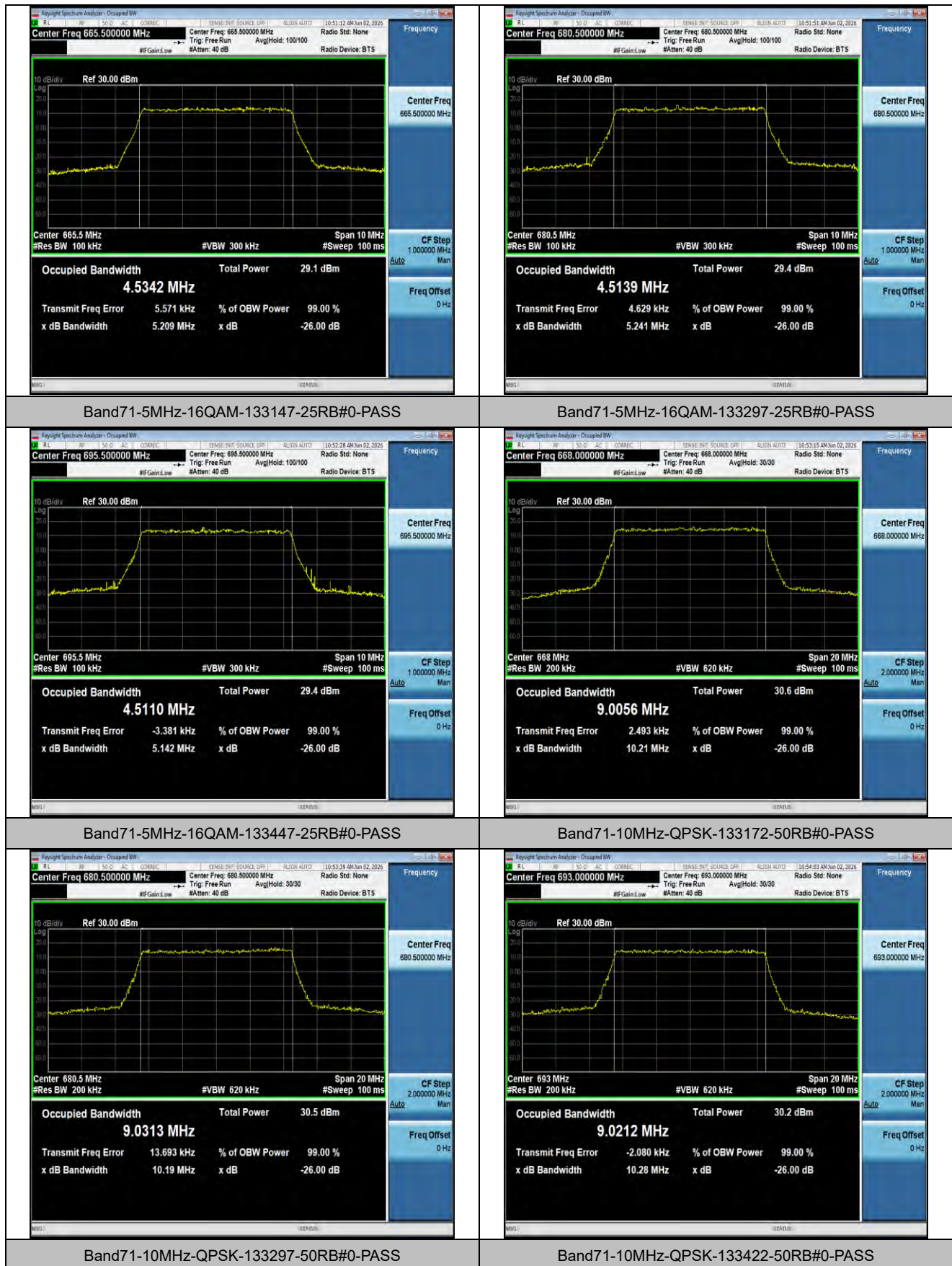
26dB Bandwidth and Occupied Bandwidth

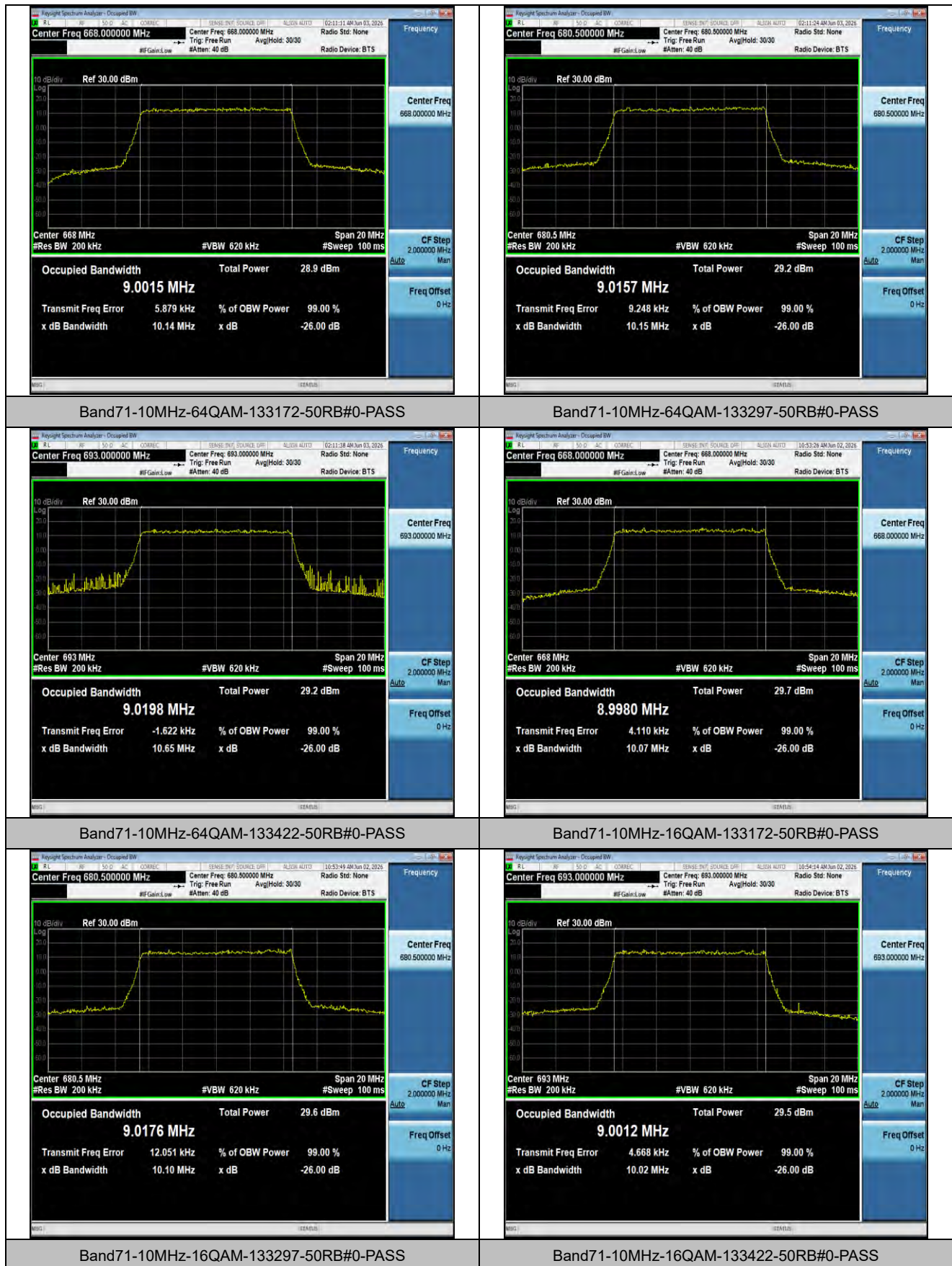
Test Result

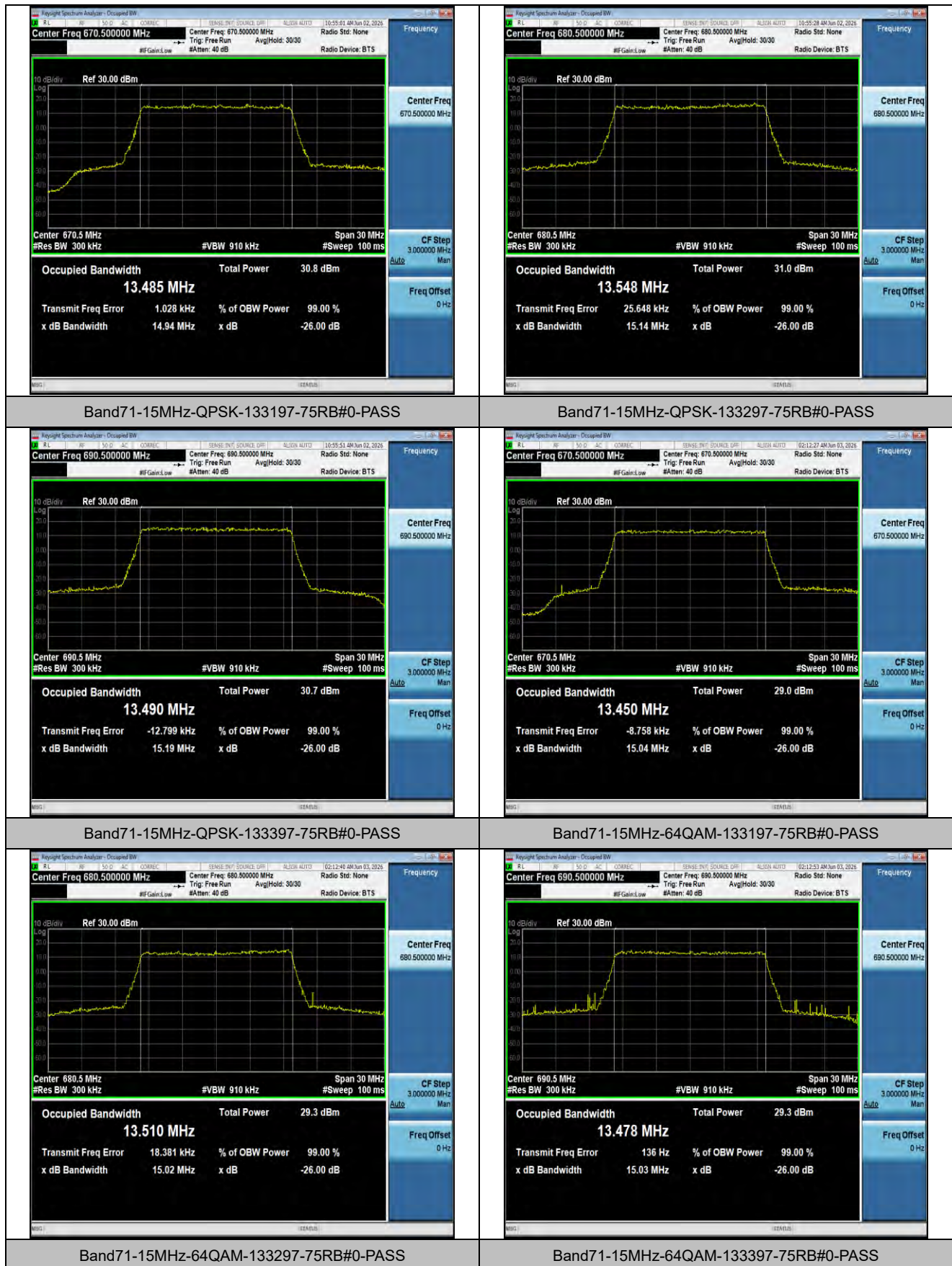
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.5091	5.174	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.5326	5.179	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.5253	5.186	PASS
Band71	5MHz	64QAM	133147	25RB#0	4.5198	5.177	PASS
Band71	5MHz	64QAM	133297	25RB#0	4.5210	5.190	PASS
Band71	5MHz	64QAM	133447	25RB#0	4.5231	5.693	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.5342	5.209	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.5139	5.241	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.5110	5.142	PASS
Band71	10MHz	QPSK	133172	50RB#0	9.0056	10.21	PASS
Band71	10MHz	QPSK	133297	50RB#0	9.0313	10.19	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.0212	10.28	PASS
Band71	10MHz	64QAM	133172	50RB#0	9.0015	10.14	PASS
Band71	10MHz	64QAM	133297	50RB#0	9.0157	10.15	PASS
Band71	10MHz	64QAM	133422	50RB#0	9.0198	10.65	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.9980	10.07	PASS
Band71	10MHz	16QAM	133297	50RB#0	9.0176	10.10	PASS
Band71	10MHz	16QAM	133422	50RB#0	9.0012	10.02	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.485	14.94	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.548	15.14	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.490	15.19	PASS
Band71	15MHz	64QAM	133197	75RB#0	13.450	15.04	PASS
Band71	15MHz	64QAM	133297	75RB#0	13.510	15.02	PASS
Band71	15MHz	64QAM	133397	75RB#0	13.478	15.03	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.475	14.97	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.540	15.05	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.507	15.02	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.938	19.73	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.958	20.12	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.940	19.97	PASS
Band71	20MHz	64QAM	133222	100RB#0	17.982	19.82	PASS
Band71	20MHz	64QAM	133322	100RB#0	18.006	19.88	PASS
Band71	20MHz	64QAM	133372	100RB#0	17.938	19.76	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.995	19.89	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.961	19.79	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.957	19.75	PASS

Test Graphs

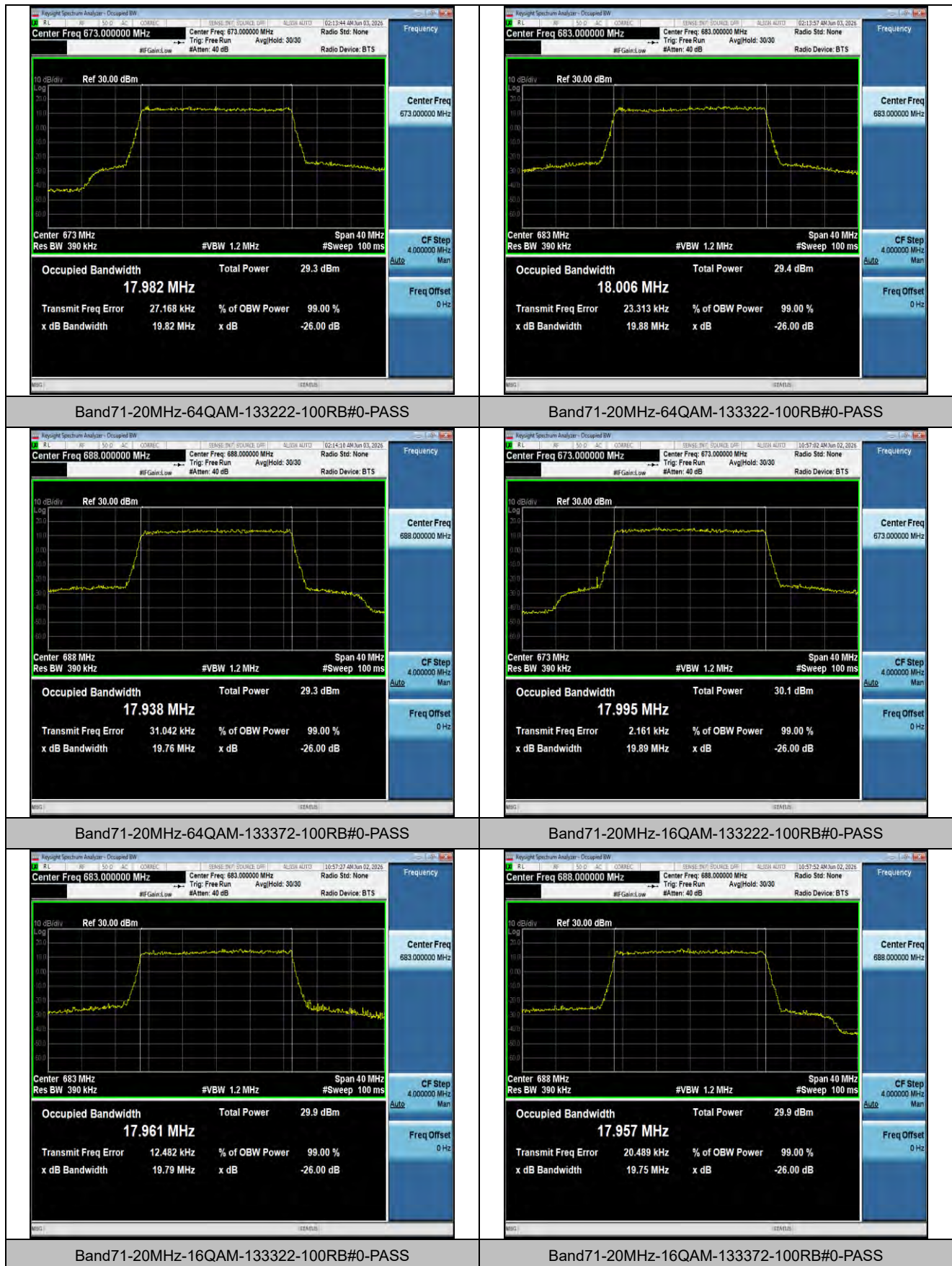






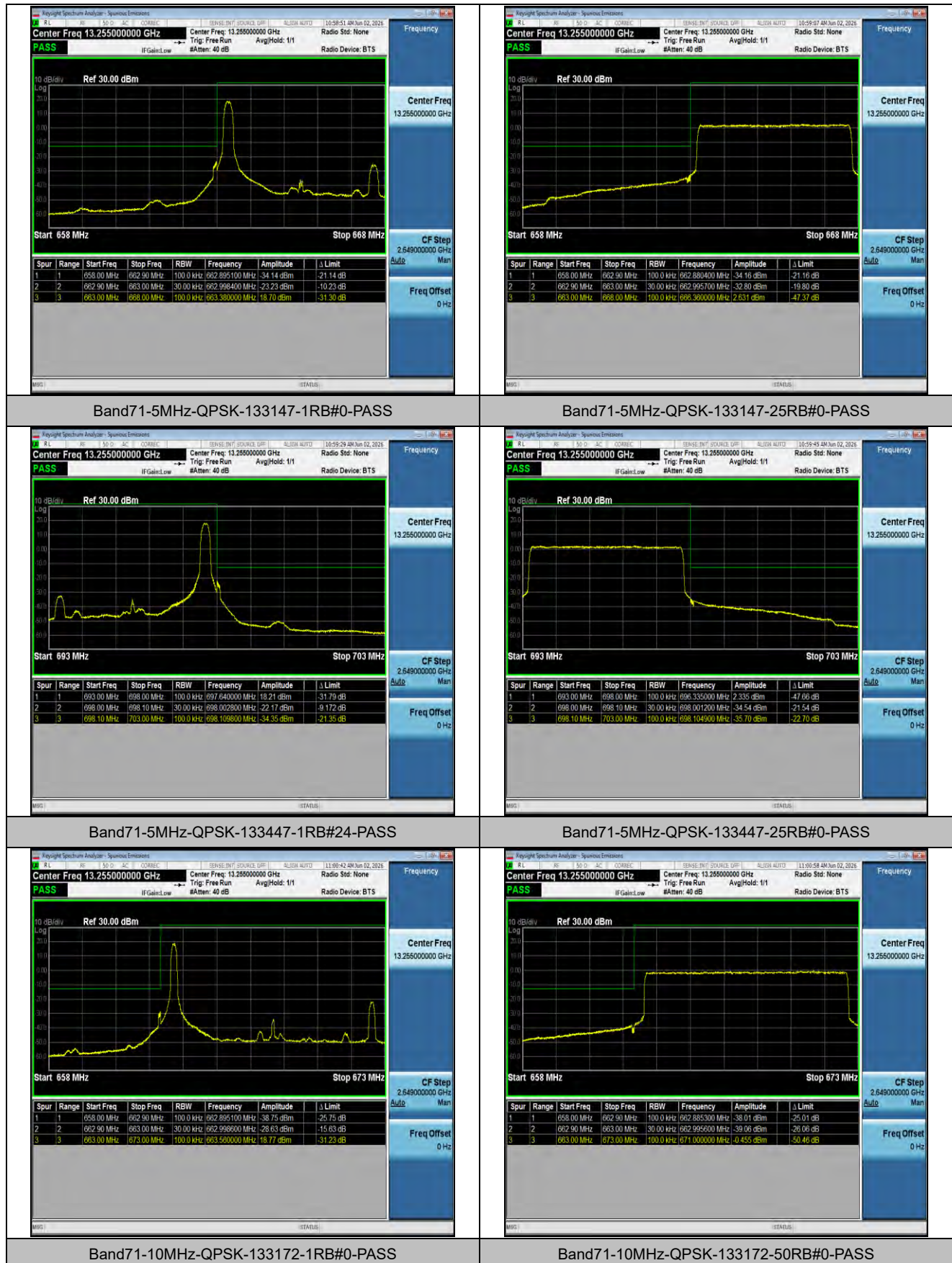


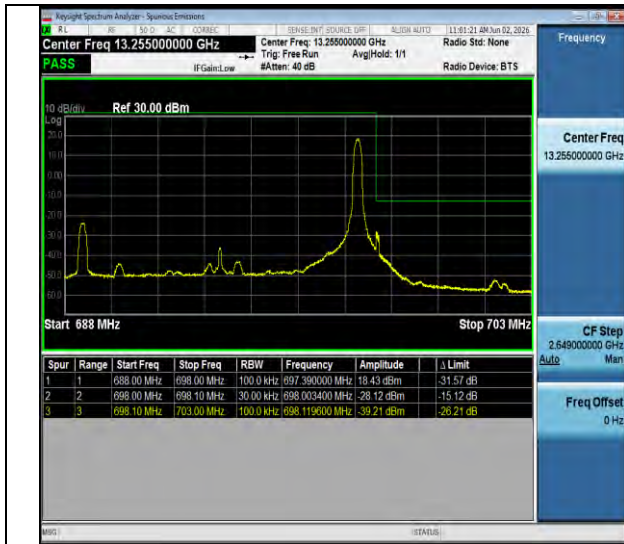




Band Edge

Test Graphs

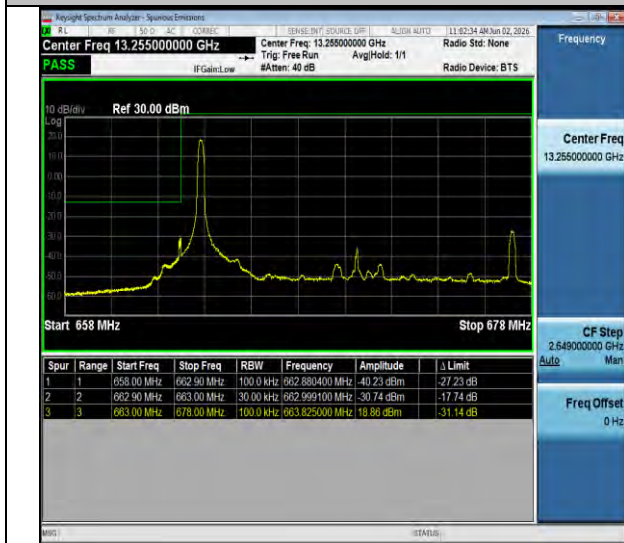




Band71-10MHz-QPSK-133422-1RB#49-PASS



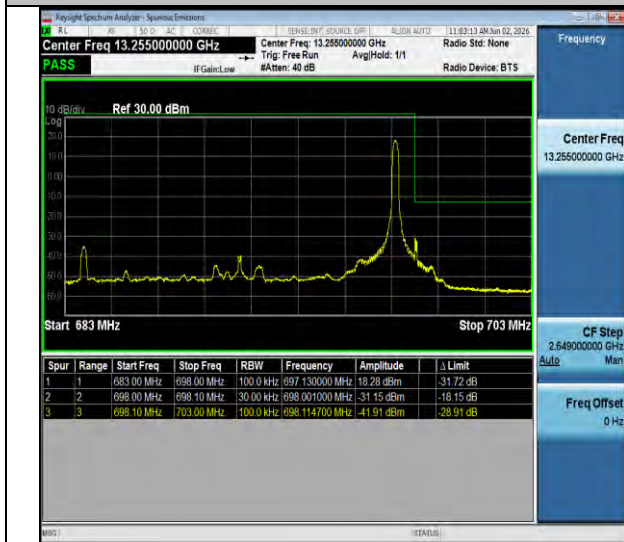
Band71-10MHz-QPSK-133422-50RB#0-PASS



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



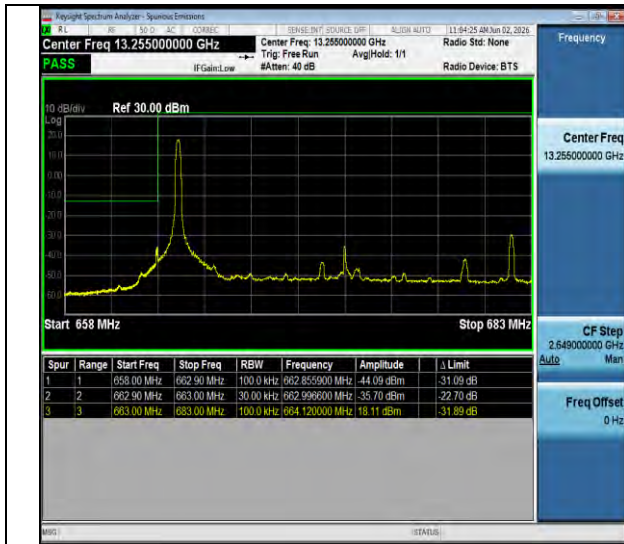
Band71-15MHz-QPSK-133197-75RB#0-PASS



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



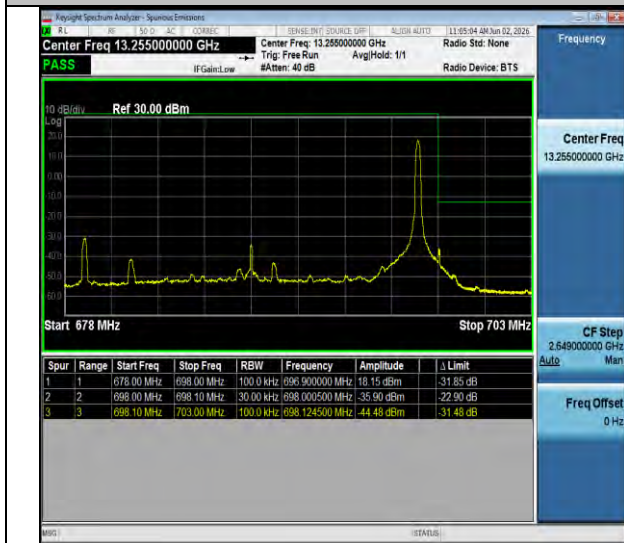
Band71-15MHz-QPSK-133397-75RB#0-PASS



Band71-20MHz-QPSK-133222-1RB#0-PASS



Band71-20MHz-QPSK-133222-100RB#0-PASS



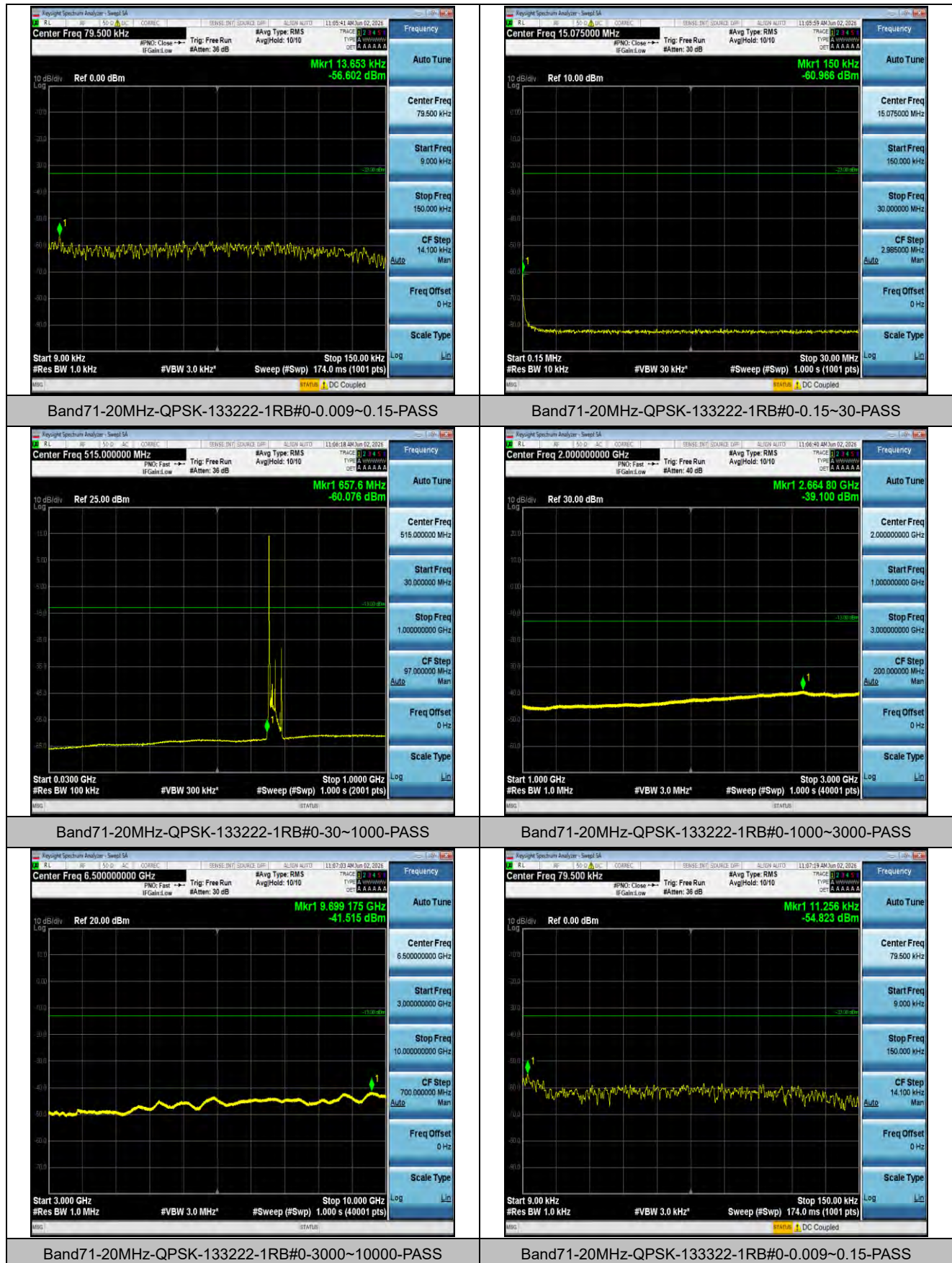
Band71-20MHz-QPSK-133372-1RB#99-PASS

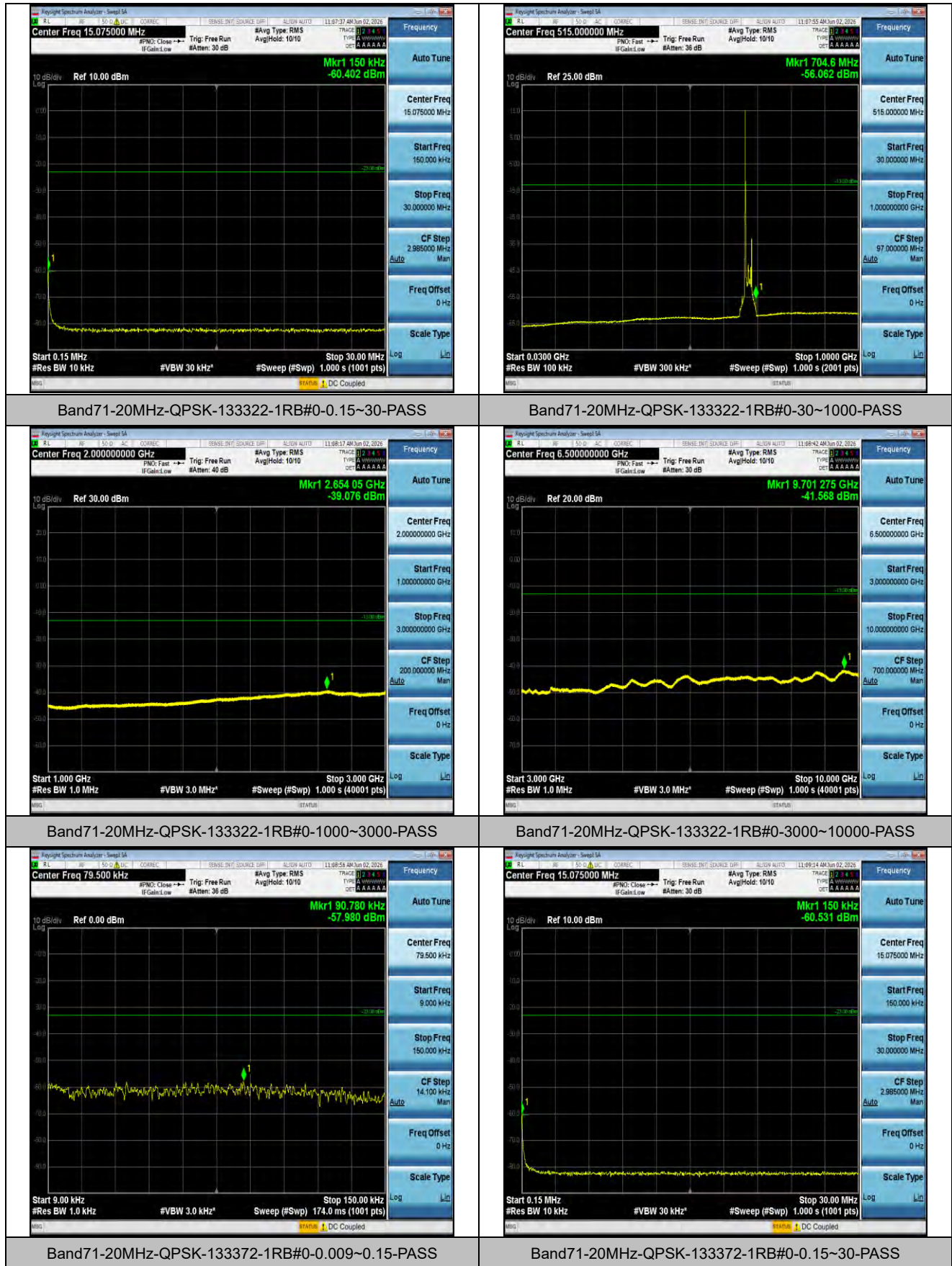


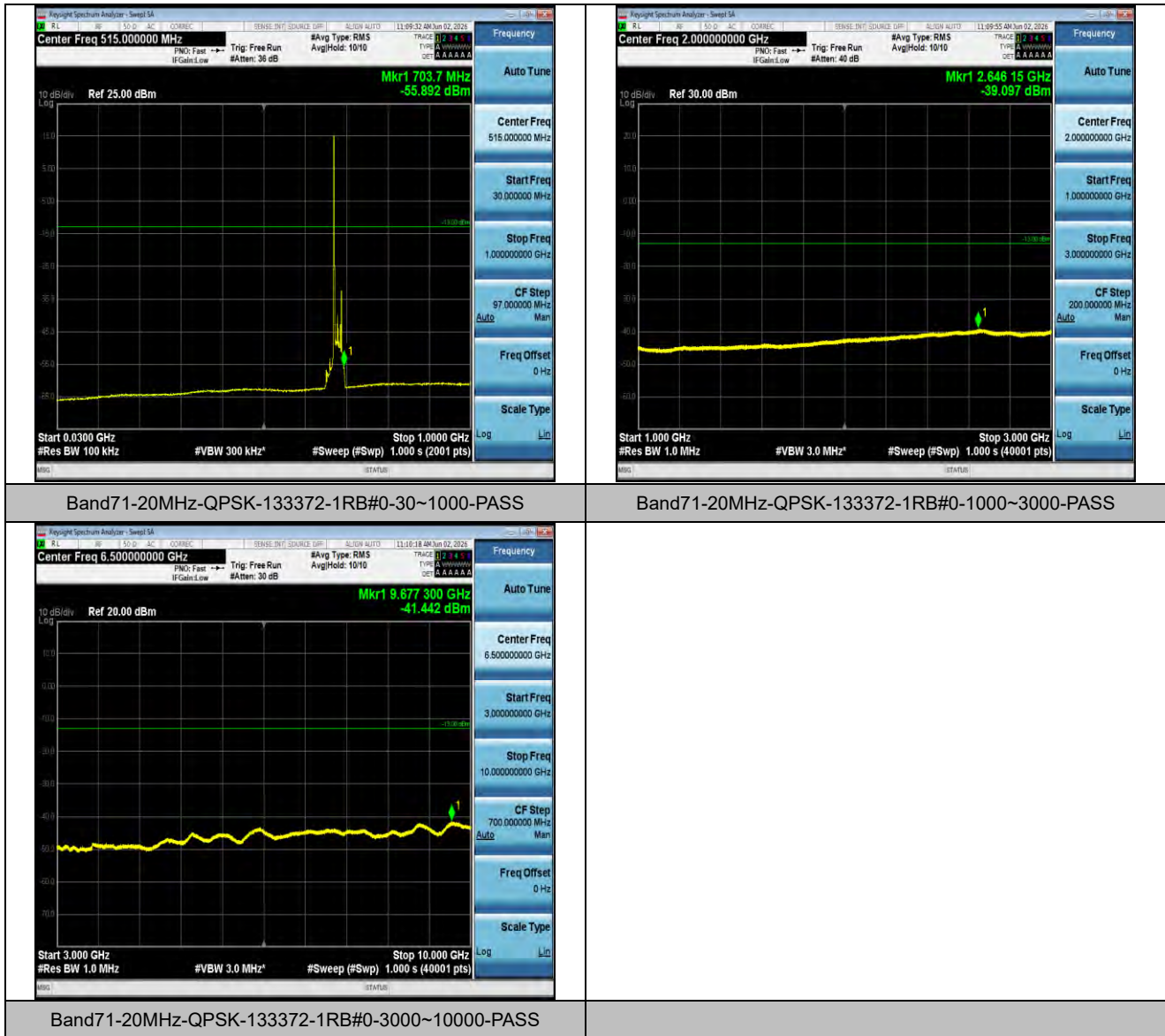
Band71-20MHz-QPSK-133372-100RB#0-PASS

Conducted Spurious Emission

Test Graphs







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	-11.27	-0.016501	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-10.71	-0.015681	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-9.74	-0.014261	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	-1.96	-0.002870	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-4.12	-0.006032	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-5.71	-0.008360	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-11.04	-0.016164	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-10.51	-0.015388	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-4.55	-0.006662	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-9.47	-0.013865	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-4.49	-0.006574	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-6.81	-0.009971	PASS

~The End~