

Appendix for LTE Band 71

Product Name: 5G Window CPE

Model No: TITAN 5100

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	22.59	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.09	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.73	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.14	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.63	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.06	PASS
Band71	5MHz	QPSK	133147	12RB#0	22.08	PASS
Band71	5MHz	16QAM	133147	12RB#0	21.10	PASS
Band71	5MHz	QPSK	133147	12RB#6	22.11	PASS
Band71	5MHz	16QAM	133147	12RB#6	21.09	PASS
Band71	5MHz	QPSK	133147	12RB#13	22.12	PASS
Band71	5MHz	16QAM	133147	12RB#13	21.10	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.19	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.15	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.67	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.07	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.72	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.35	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.53	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.19	PASS
Band71	5MHz	QPSK	133297	12RB#0	22.12	PASS
Band71	5MHz	16QAM	133297	12RB#0	21.17	PASS
Band71	5MHz	QPSK	133297	12RB#6	22.15	PASS
Band71	5MHz	16QAM	133297	12RB#6	21.16	PASS
Band71	5MHz	QPSK	133297	12RB#13	22.13	PASS
Band71	5MHz	16QAM	133297	12RB#13	21.17	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.11	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.13	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.33	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.92	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.44	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.07	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.38	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.74	PASS
Band71	5MHz	QPSK	133447	12RB#0	21.82	PASS

Band71	5MHz	16QAM	133447	12RB#0	20.85	PASS
Band71	5MHz	QPSK	133447	12RB#6	21.85	PASS
Band71	5MHz	16QAM	133447	12RB#6	20.82	PASS
Band71	5MHz	QPSK	133447	12RB#13	21.90	PASS
Band71	5MHz	16QAM	133447	12RB#13	20.88	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.92	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.92	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.58	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.16	PASS
Band71	10MHz	QPSK	133172	1RB#24	22.58	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.97	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.40	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.85	PASS
Band71	10MHz	QPSK	133172	25RB#0	22.11	PASS
Band71	10MHz	16QAM	133172	25RB#0	21.16	PASS
Band71	10MHz	QPSK	133172	25RB#12	22.09	PASS
Band71	10MHz	16QAM	133172	25RB#12	21.10	PASS
Band71	10MHz	QPSK	133172	25RB#25	22.04	PASS
Band71	10MHz	16QAM	133172	25RB#25	21.04	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.11	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.07	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.47	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.05	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.63	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.96	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.43	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.05	PASS
Band71	10MHz	QPSK	133297	25RB#0	22.04	PASS
Band71	10MHz	16QAM	133297	25RB#0	21.10	PASS
Band71	10MHz	QPSK	133297	25RB#12	22.05	PASS
Band71	10MHz	16QAM	133297	25RB#12	21.08	PASS
Band71	10MHz	QPSK	133297	25RB#25	22.06	PASS
Band71	10MHz	16QAM	133297	25RB#25	21.14	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.05	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.05	PASS
Band71	10MHz	QPSK	133422	1RB#0	22.28	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.97	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.32	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.83	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.30	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.98	PASS
Band71	10MHz	QPSK	133422	25RB#0	21.79	PASS

Band71	10MHz	16QAM	133422	25RB#0	20.80	PASS
Band71	10MHz	QPSK	133422	25RB#12	21.79	PASS
Band71	10MHz	16QAM	133422	25RB#12	20.76	PASS
Band71	10MHz	QPSK	133422	25RB#25	21.87	PASS
Band71	10MHz	16QAM	133422	25RB#25	20.85	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.88	PASS
Band71	10MHz	16QAM	133422	50RB#0	20.85	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.36	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	22.27	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.75	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.21	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.66	PASS
Band71	15MHz	QPSK	133197	38RB#0	21.90	PASS
Band71	15MHz	16QAM	133197	38RB#0	21.78	PASS
Band71	15MHz	QPSK	133197	38RB#18	21.70	PASS
Band71	15MHz	16QAM	133197	38RB#18	21.78	PASS
Band71	15MHz	QPSK	133197	38RB#37	21.60	PASS
Band71	15MHz	16QAM	133197	38RB#37	21.88	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.92	PASS
Band71	15MHz	16QAM	133197	75RB#0	20.96	PASS
Band71	15MHz	QPSK	133297	1RB#0	22.31	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.79	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.43	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.84	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.14	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.63	PASS
Band71	15MHz	QPSK	133297	38RB#0	21.71	PASS
Band71	15MHz	16QAM	133297	38RB#0	21.63	PASS
Band71	15MHz	QPSK	133297	38RB#18	21.85	PASS
Band71	15MHz	16QAM	133297	38RB#18	21.94	PASS
Band71	15MHz	QPSK	133297	38RB#37	21.58	PASS
Band71	15MHz	16QAM	133297	38RB#37	21.43	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.86	PASS
Band71	15MHz	16QAM	133297	75RB#0	20.88	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.41	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.81	PASS
Band71	15MHz	QPSK	133397	1RB#38	22.16	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.54	PASS
Band71	15MHz	QPSK	133397	1RB#74	21.97	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.57	PASS
Band71	15MHz	QPSK	133397	38RB#0	21.80	PASS

Band71	15MHz	16QAM	133397	38RB#0	21.93	PASS
Band71	15MHz	QPSK	133397	38RB#18	21.61	PASS
Band71	15MHz	16QAM	133397	38RB#18	21.55	PASS
Band71	15MHz	QPSK	133397	38RB#37	21.48	PASS
Band71	15MHz	16QAM	133397	38RB#37	21.67	PASS
Band71	15MHz	QPSK	133397	75RB#0	21.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.74	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.43	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.60	PASS
Band71	20MHz	QPSK	133222	1RB#49	22.29	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.44	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.38	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.73	PASS
Band71	20MHz	QPSK	133222	50RB#0	21.94	PASS
Band71	20MHz	16QAM	133222	50RB#0	20.94	PASS
Band71	20MHz	QPSK	133222	50RB#25	21.94	PASS
Band71	20MHz	16QAM	133222	50RB#25	20.90	PASS
Band71	20MHz	QPSK	133222	50RB#50	21.94	PASS
Band71	20MHz	16QAM	133222	50RB#50	20.91	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.96	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.02	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.38	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.83	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.41	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.69	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.09	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.61	PASS
Band71	20MHz	QPSK	133322	50RB#0	21.97	PASS
Band71	20MHz	16QAM	133322	50RB#0	20.96	PASS
Band71	20MHz	QPSK	133322	50RB#25	21.96	PASS
Band71	20MHz	16QAM	133322	50RB#25	20.94	PASS
Band71	20MHz	QPSK	133322	50RB#50	21.76	PASS
Band71	20MHz	16QAM	133322	50RB#50	20.78	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.83	PASS
Band71	20MHz	16QAM	133322	100RB#0	20.88	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.41	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.94	PASS
Band71	20MHz	QPSK	133372	1RB#49	22.17	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.69	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.13	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.78	PASS
Band71	20MHz	QPSK	133372	50RB#0	21.86	PASS

Band71	20MHz	16QAM	133372	50RB#0	20.86	PASS
Band71	20MHz	QPSK	133372	50RB#25	21.87	PASS
Band71	20MHz	16QAM	133372	50RB#25	20.89	PASS
Band71	20MHz	QPSK	133372	50RB#50	21.68	PASS
Band71	20MHz	16QAM	133372	50RB#50	20.73	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.83	PASS
Band71	20MHz	16QAM	133372	100RB#0	20.85	PASS

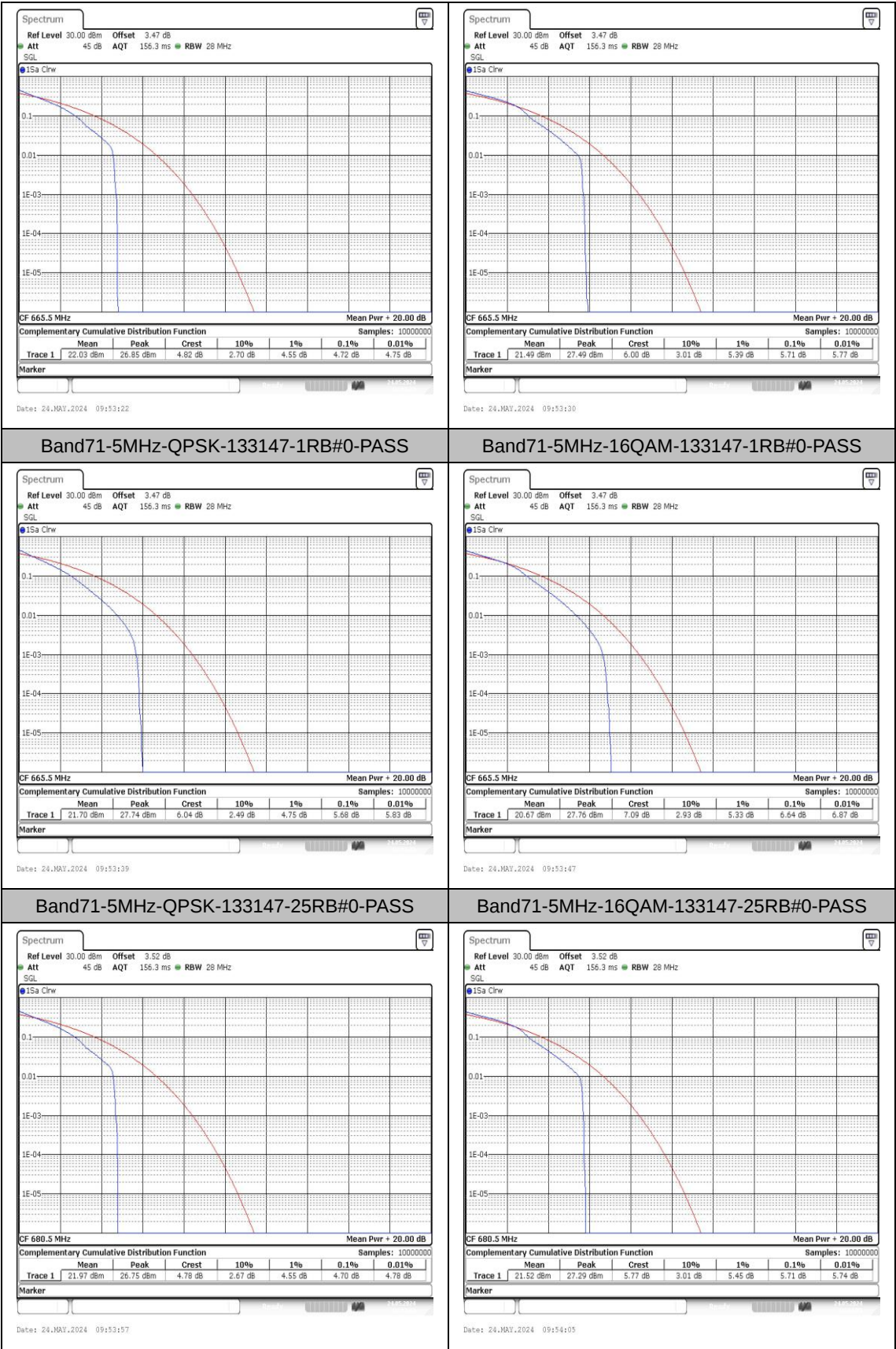
Appendix B: Peak-to-Average Ratio(CCDF)

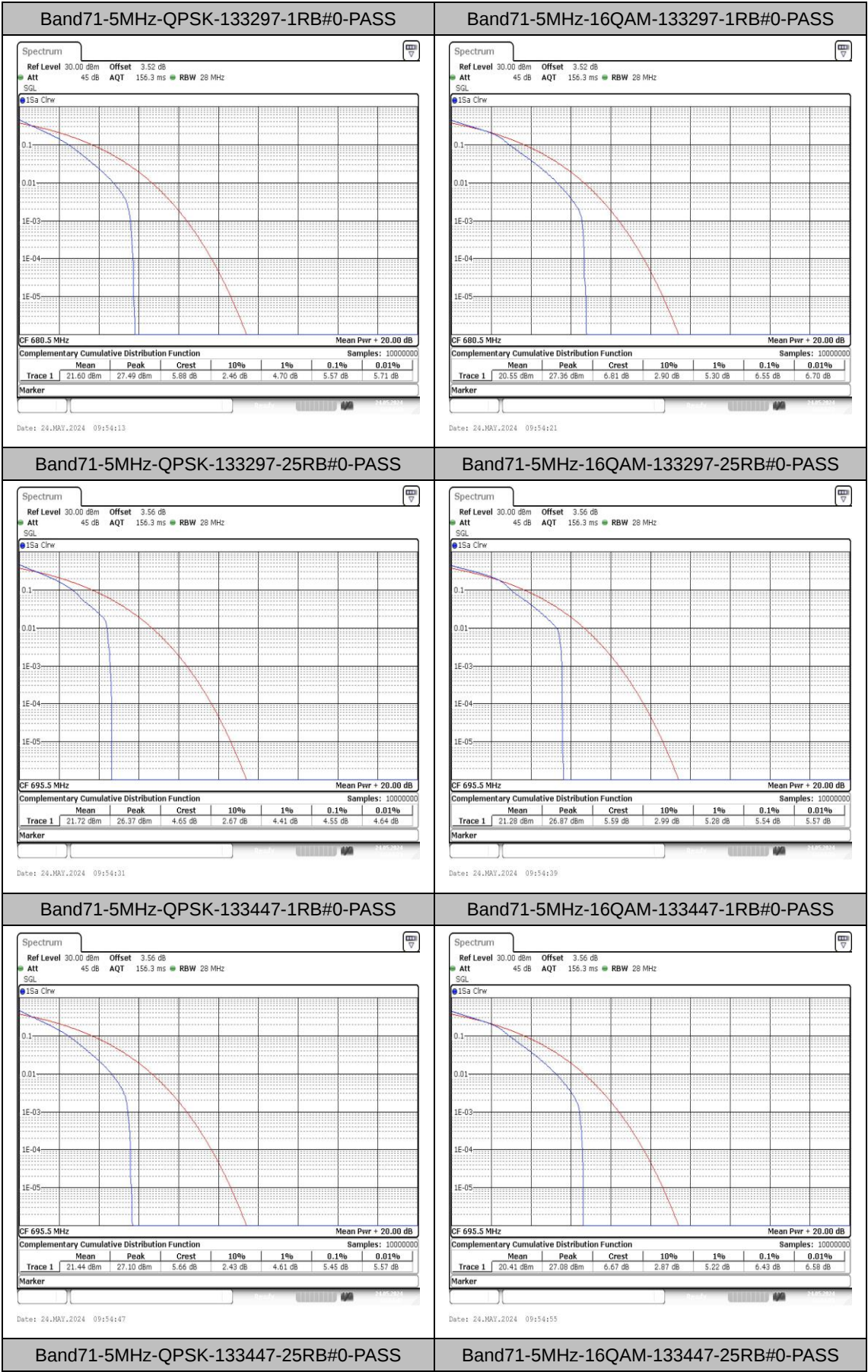
Test Result

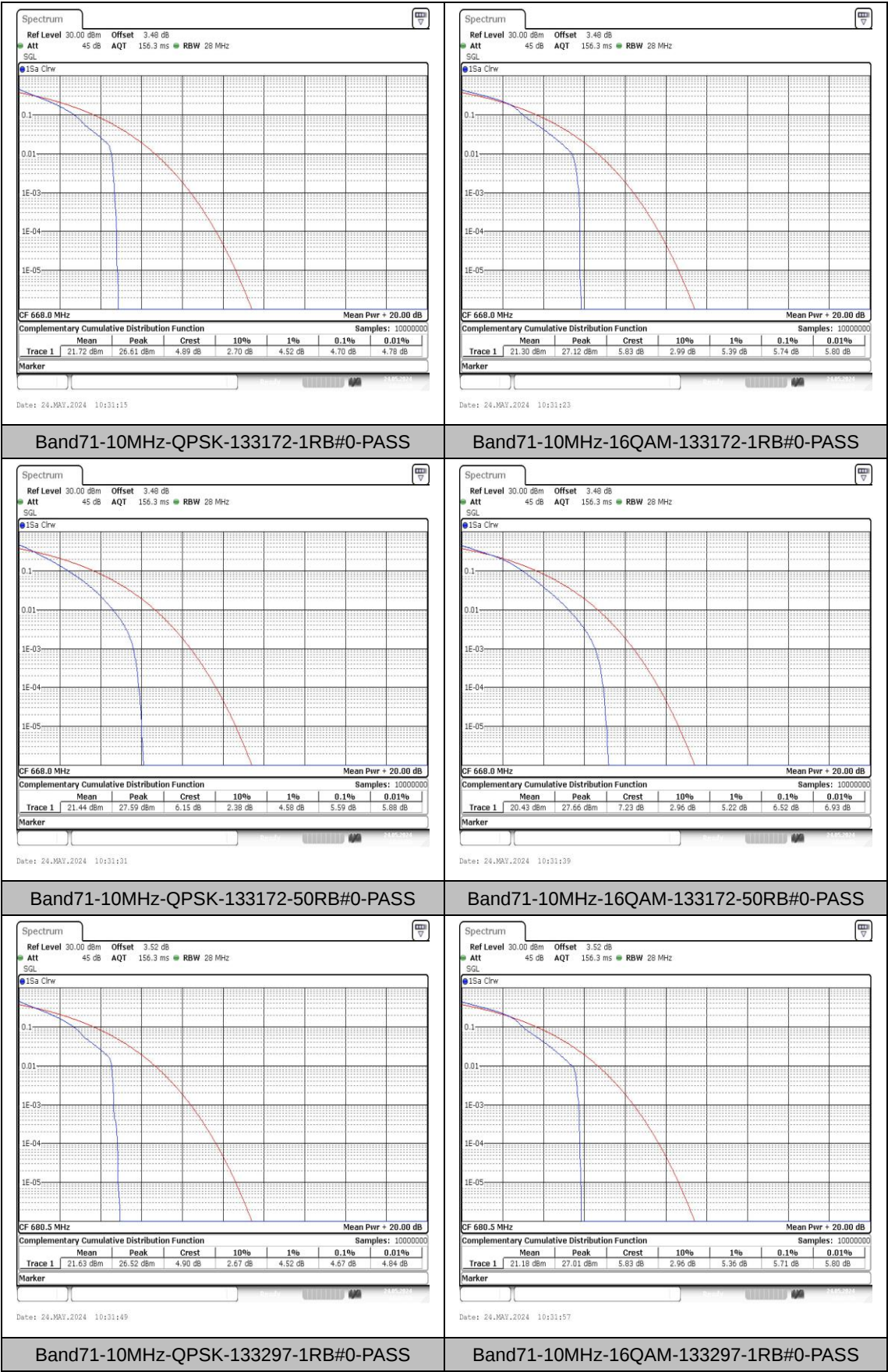
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	4.72	13	PASS
Band71	5MHz	16QAM	133147	1RB#0	5.71	13	PASS
Band71	5MHz	QPSK	133147	25RB#0	5.68	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	6.64	13	PASS
Band71	5MHz	QPSK	133297	1RB#0	4.70	13	PASS
Band71	5MHz	16QAM	133297	1RB#0	5.71	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.57	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	6.55	13	PASS
Band71	5MHz	QPSK	133447	1RB#0	4.55	13	PASS
Band71	5MHz	16QAM	133447	1RB#0	5.54	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.45	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	6.43	13	PASS
Band71	10MHz	QPSK	133172	1RB#0	4.70	13	PASS
Band71	10MHz	16QAM	133172	1RB#0	5.74	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.59	13	PASS
Band71	10MHz	16QAM	133172	50RB#0	6.52	13	PASS
Band71	10MHz	QPSK	133297	1RB#0	4.67	13	PASS
Band71	10MHz	16QAM	133297	1RB#0	5.71	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.62	13	PASS
Band71	10MHz	16QAM	133297	50RB#0	6.55	13	PASS
Band71	10MHz	QPSK	133422	1RB#0	4.55	13	PASS
Band71	10MHz	16QAM	133422	1RB#0	5.48	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.51	13	PASS
Band71	10MHz	16QAM	133422	50RB#0	6.41	13	PASS
Band71	15MHz	QPSK	133197	1RB#0	4.84	13	PASS
Band71	15MHz	16QAM	133197	1RB#0	5.71	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.62	13	PASS
Band71	15MHz	16QAM	133197	75RB#0	6.46	13	PASS
Band71	15MHz	QPSK	133297	1RB#0	4.70	13	PASS
Band71	15MHz	16QAM	133297	1RB#0	5.74	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	5.71	13	PASS
Band71	15MHz	16QAM	133297	75RB#0	6.55	13	PASS
Band71	15MHz	QPSK	133397	1RB#0	4.61	13	PASS
Band71	15MHz	16QAM	133397	1RB#0	5.65	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.51	13	PASS

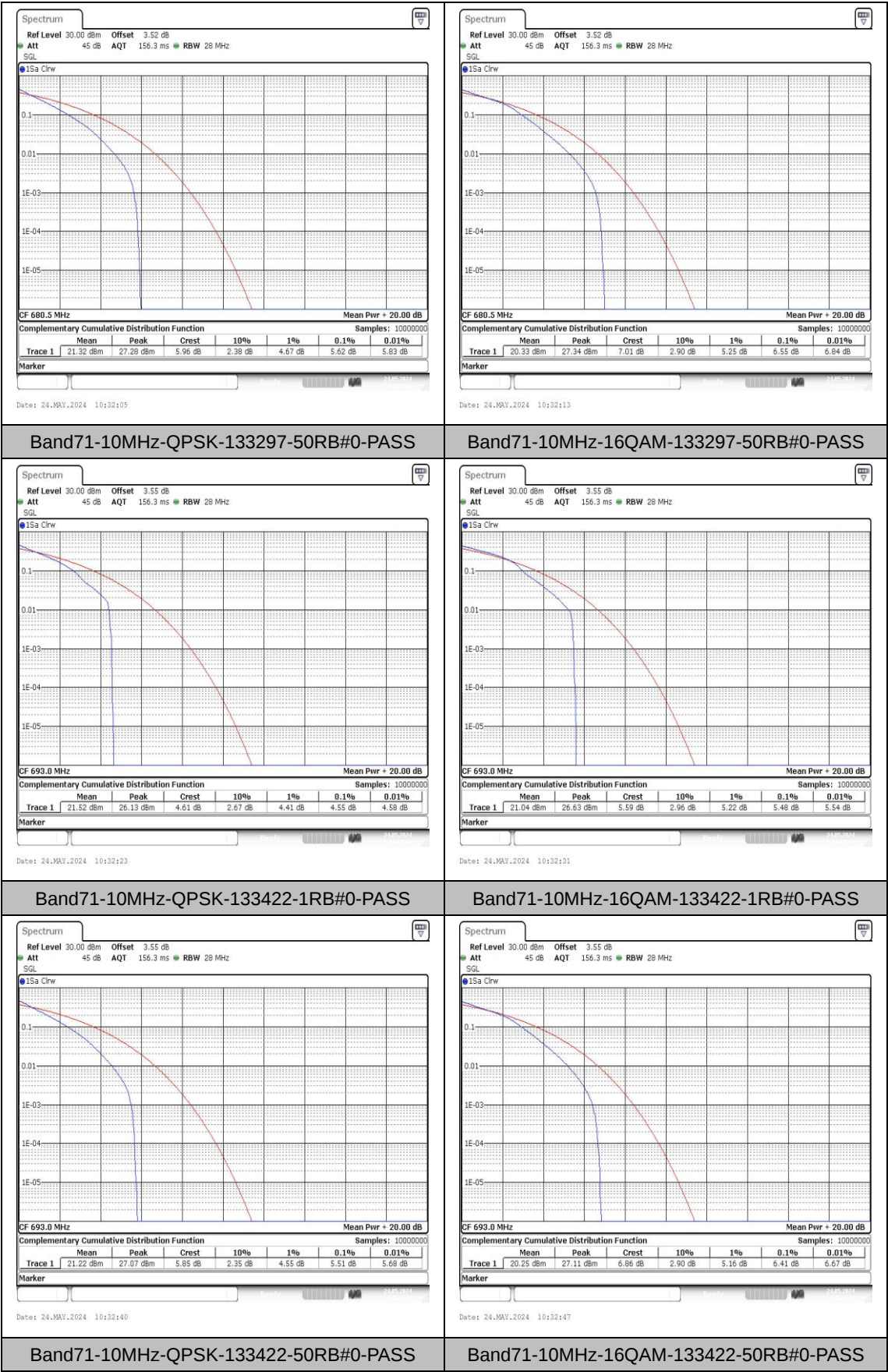
Band71	15MHz	16QAM	133397	75RB#0	6.38	13	PASS
Band71	20MHz	QPSK	133222	1RB#0	4.70	13	PASS
Band71	20MHz	16QAM	133222	1RB#0	5.74	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.36	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.41	13	PASS
Band71	20MHz	QPSK	133322	1RB#0	4.70	13	PASS
Band71	20MHz	16QAM	133322	1RB#0	5.65	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.42	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.41	13	PASS
Band71	20MHz	QPSK	133372	1RB#0	4.70	13	PASS
Band71	20MHz	16QAM	133372	1RB#0	5.80	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.30	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.32	13	PASS

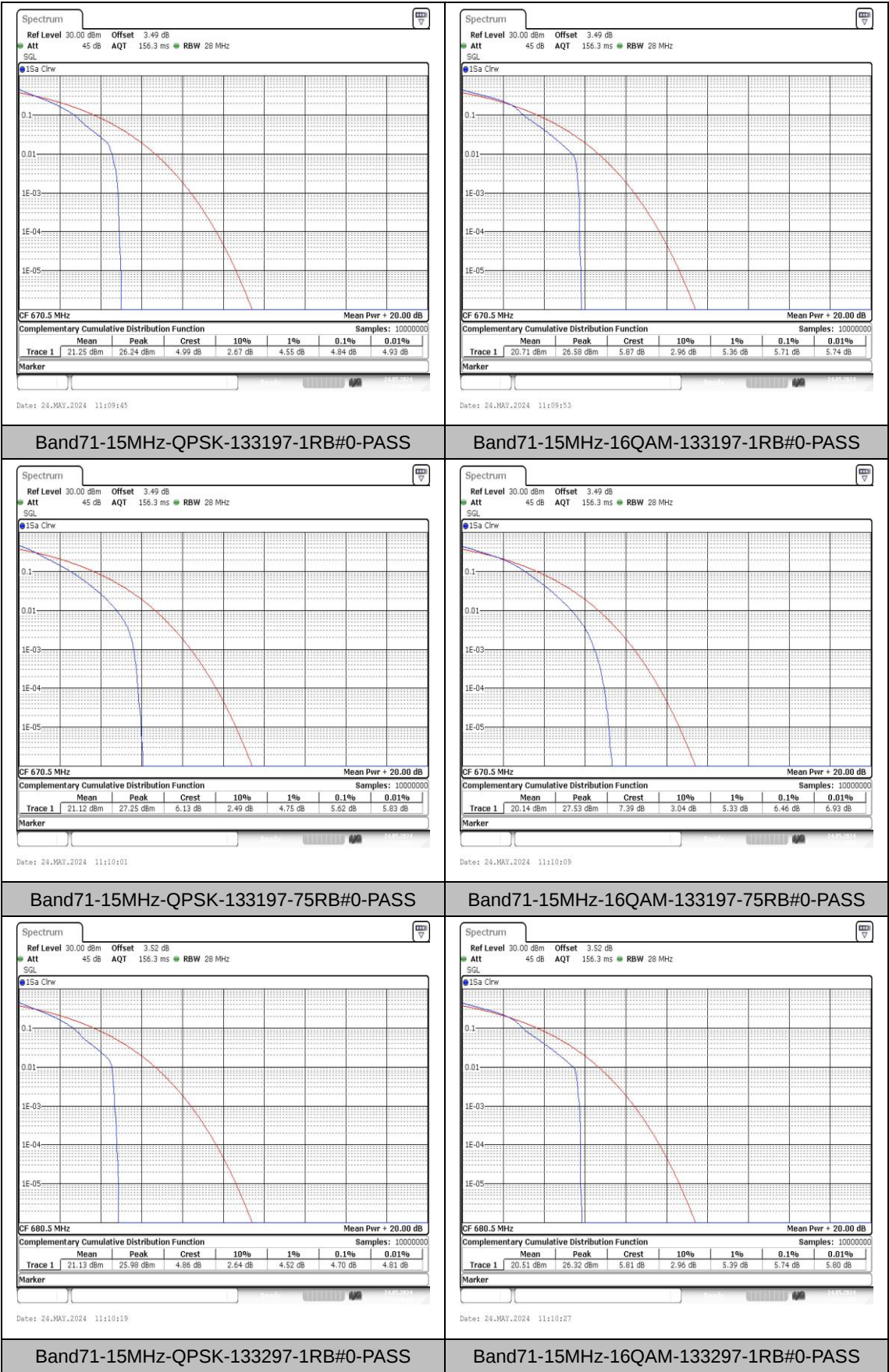
Test Graphs

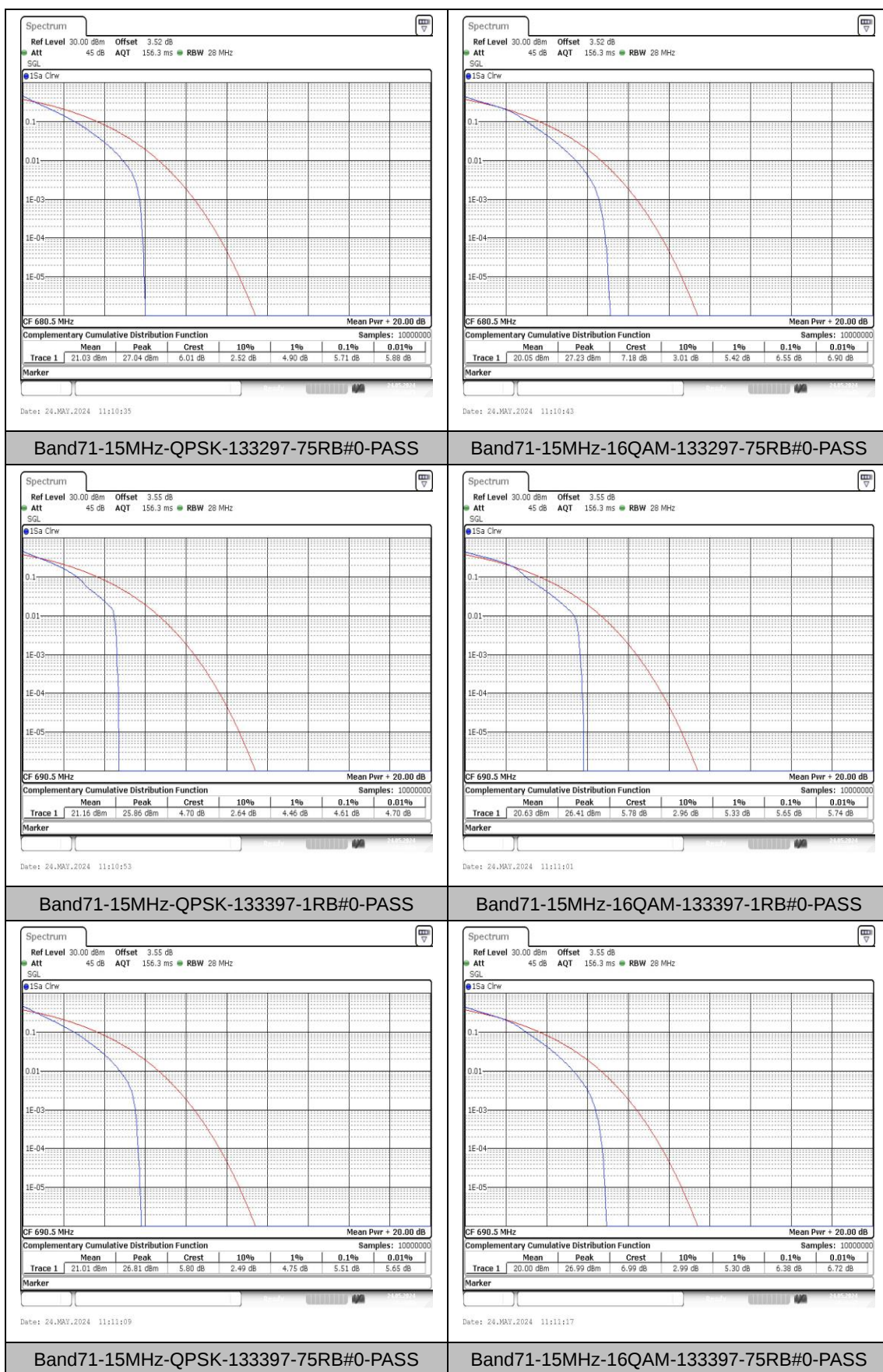


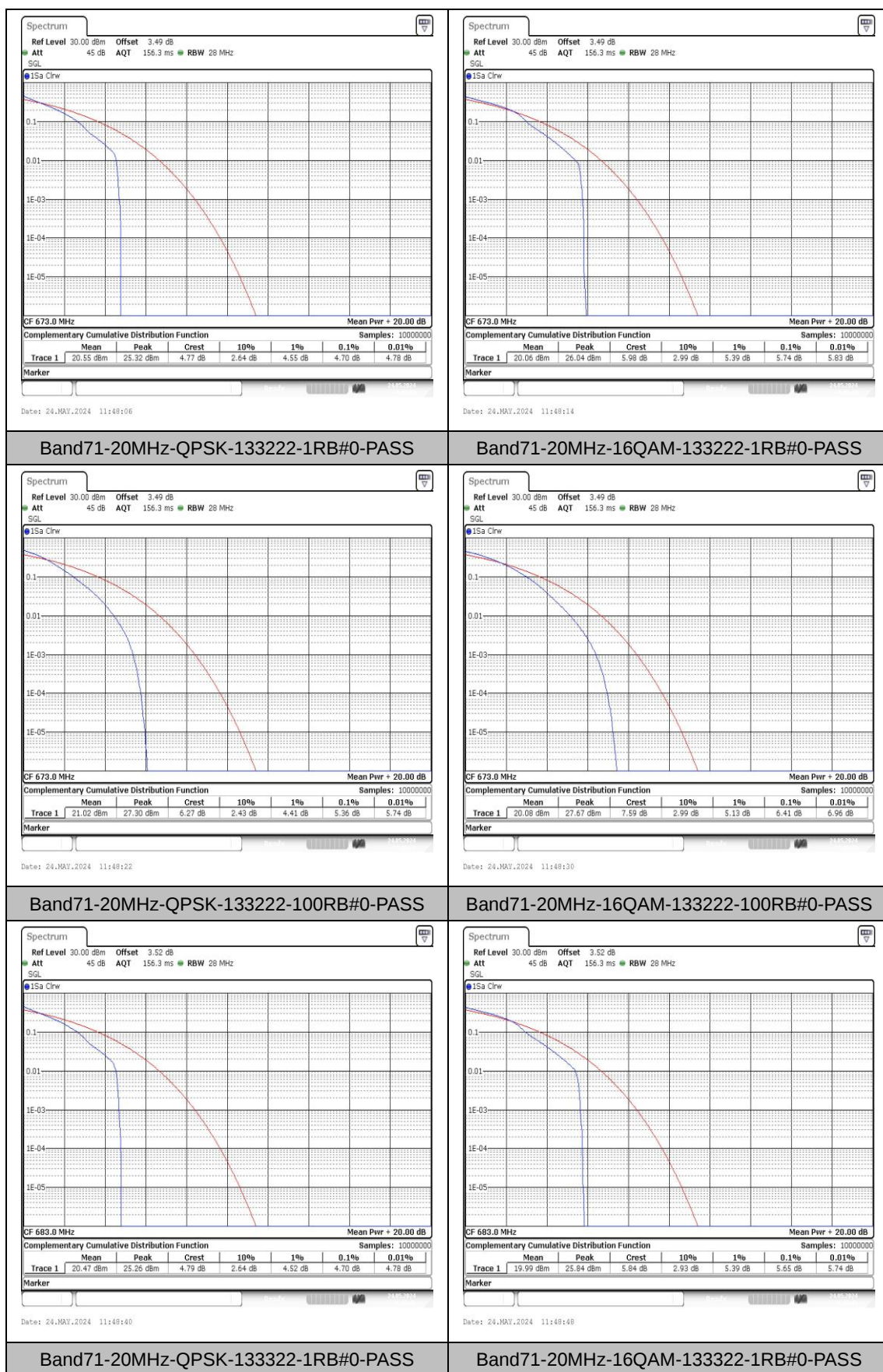


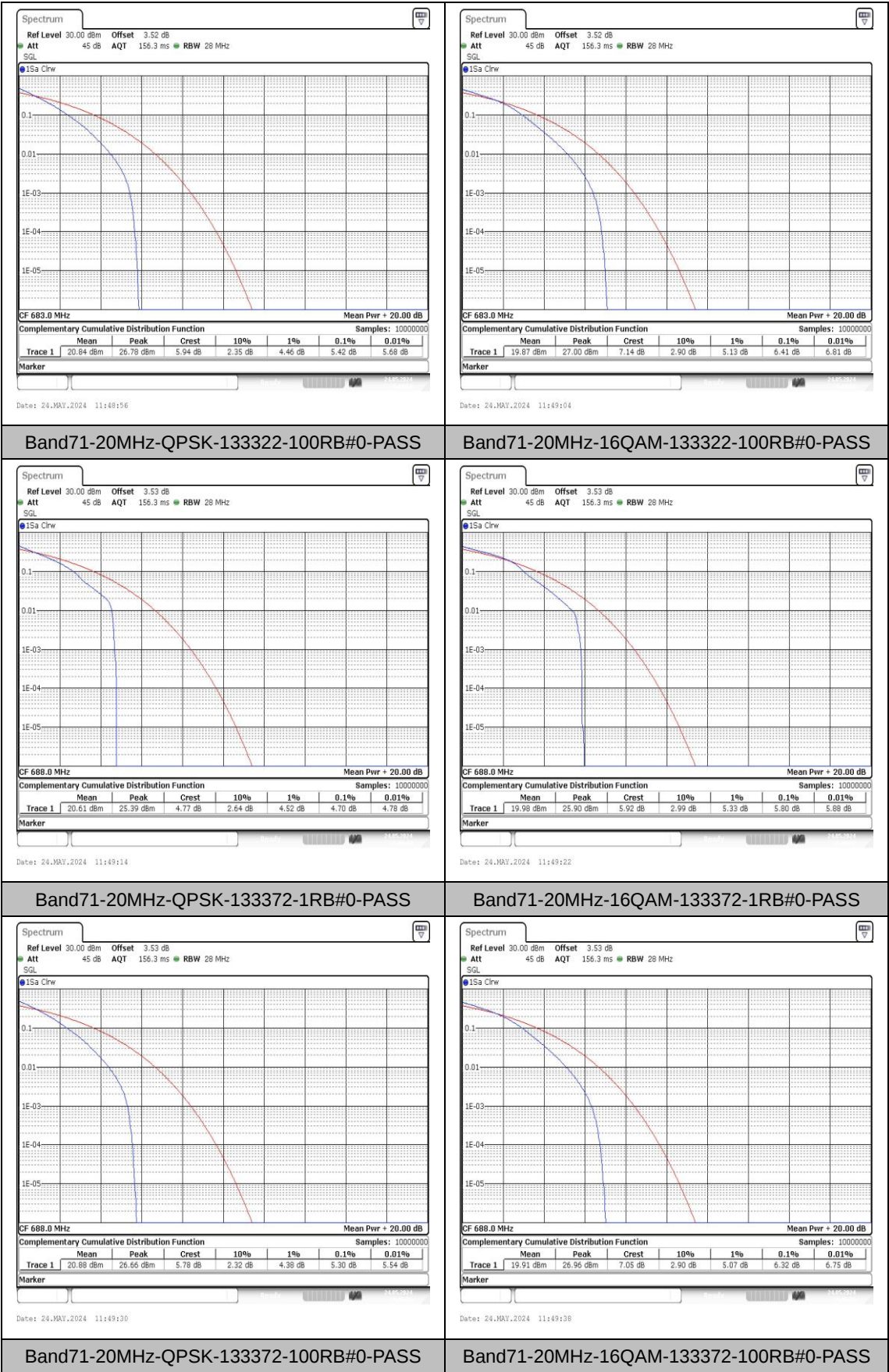










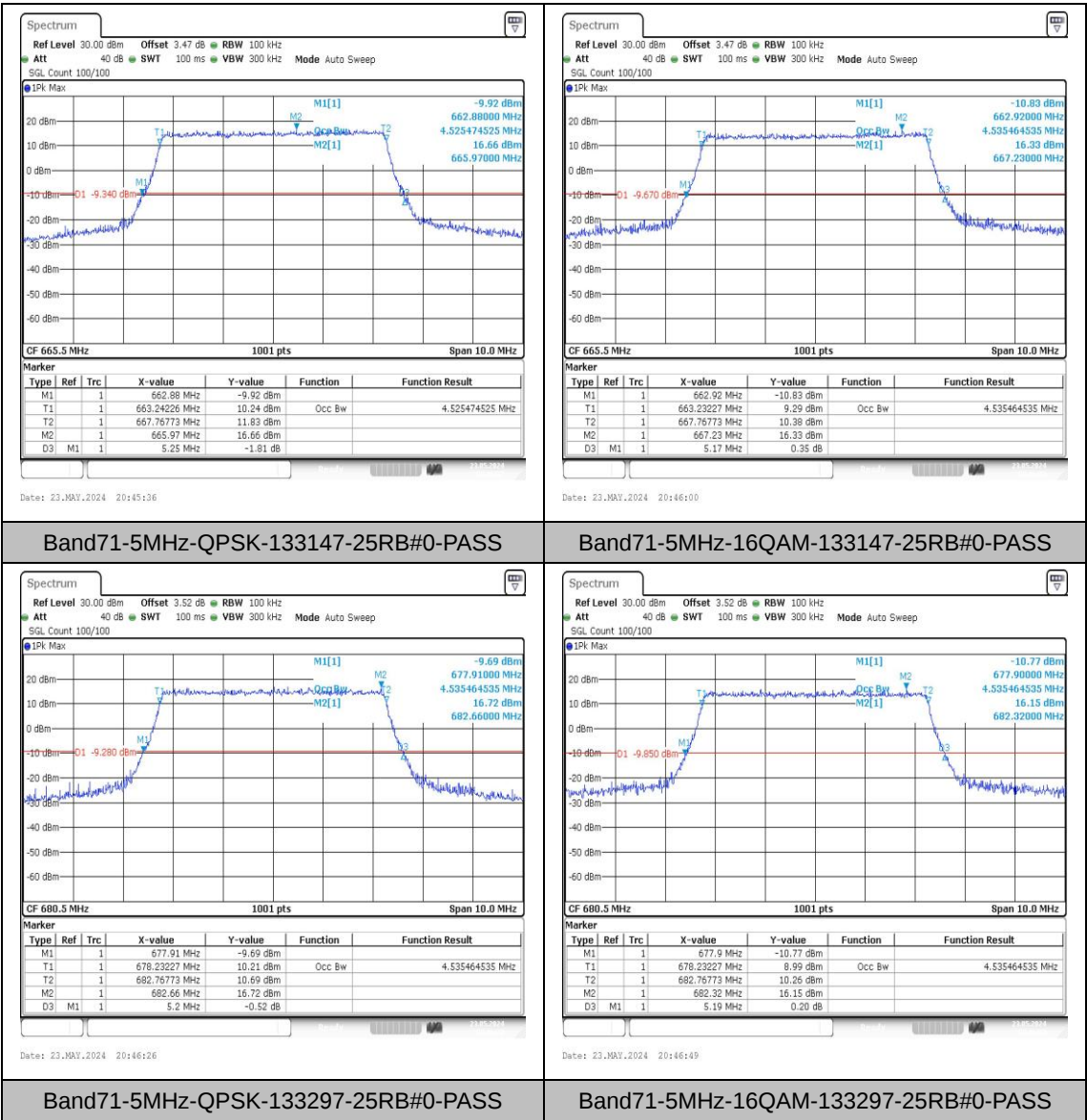


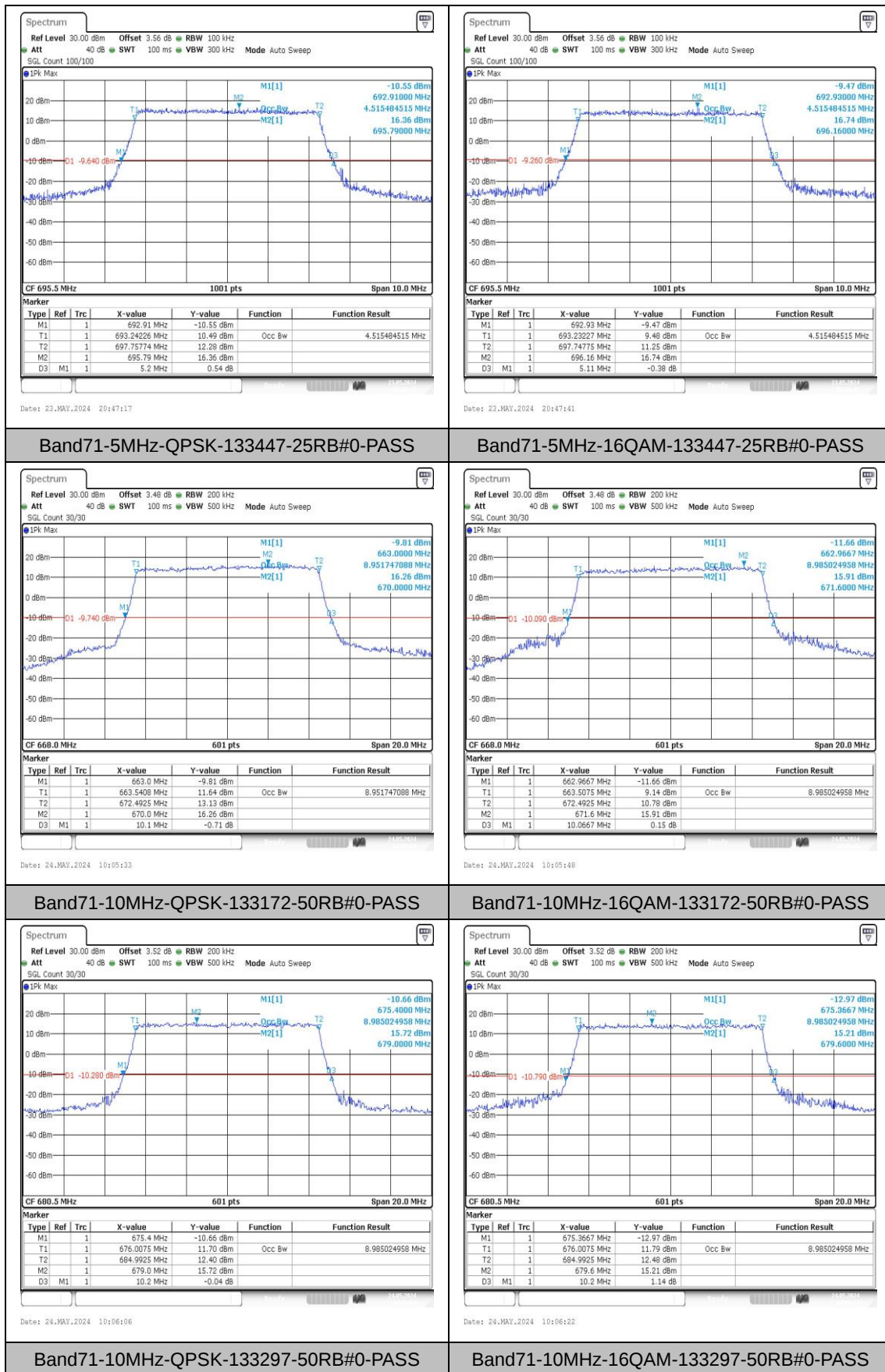
Appendix C: 26dB Bandwidth and Occupied Bandwidth

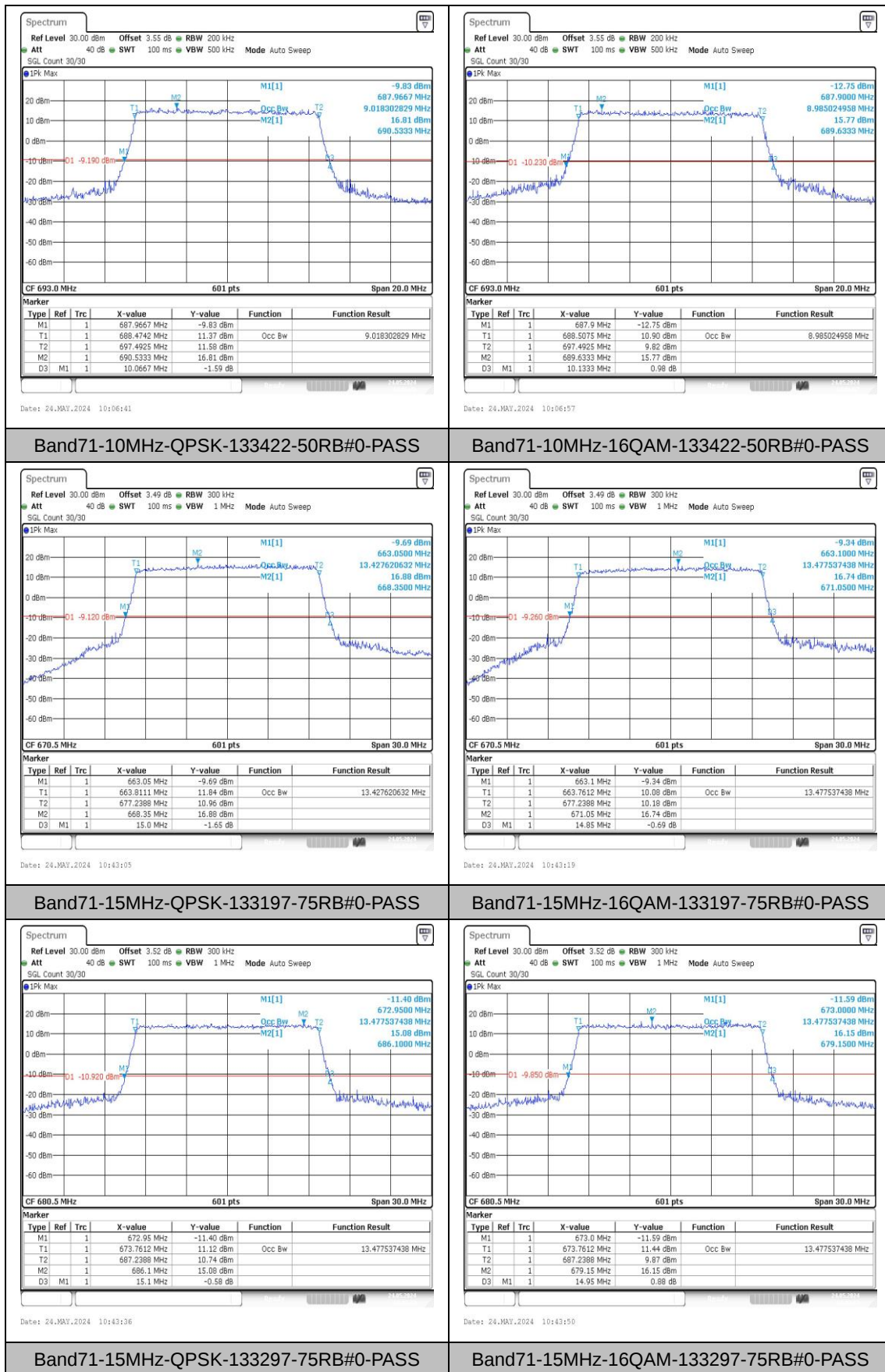
Test Result

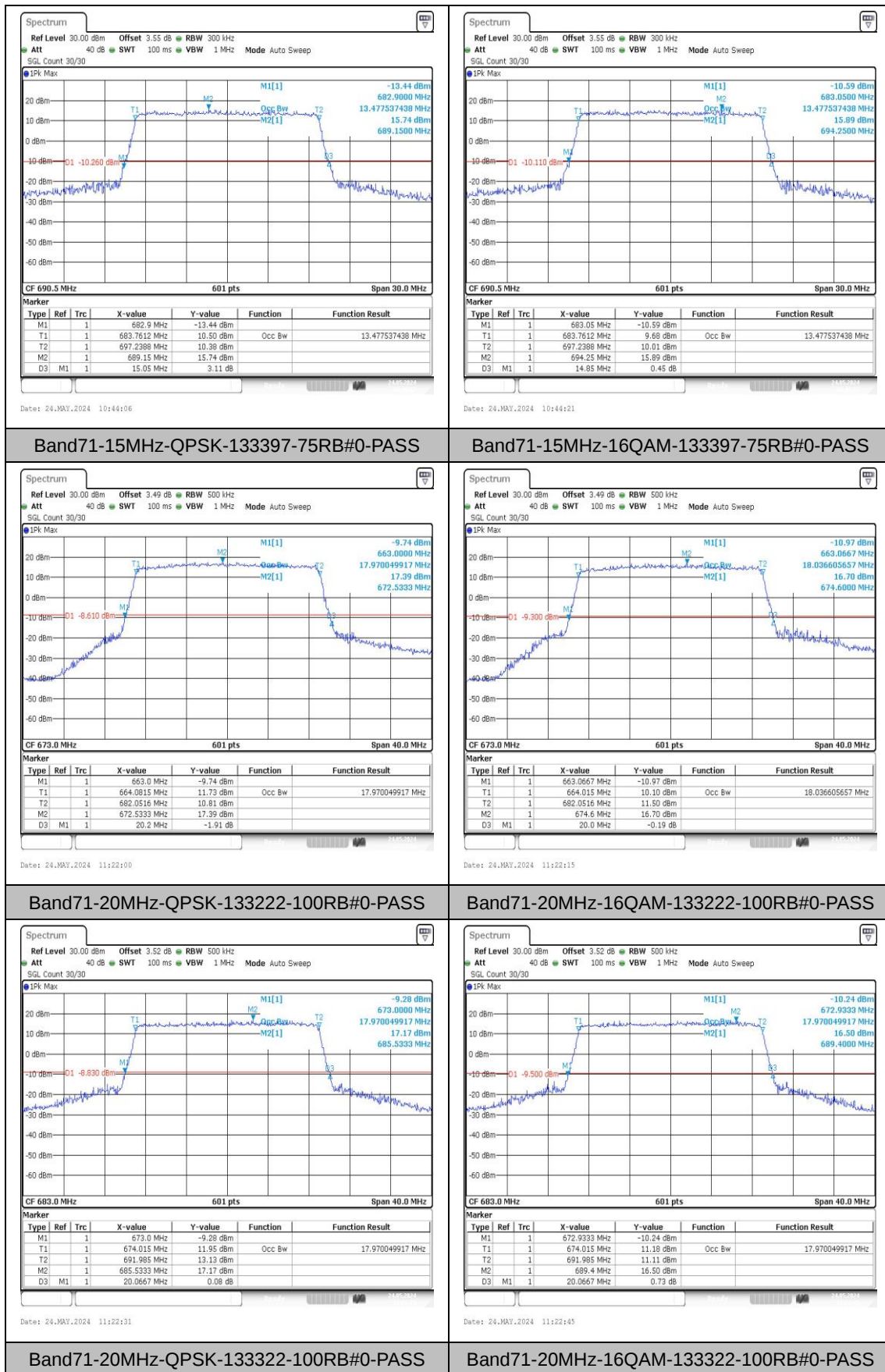
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.525	5.25	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.535	5.17	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.535	5.20	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.535	5.19	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.515	5.20	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.515	5.11	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.952	10.10	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.985	10.07	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.985	10.20	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.985	10.20	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.018	10.07	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.985	10.13	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.428	15.00	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.478	14.85	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.478	15.10	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.478	14.95	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.478	15.05	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.478	14.85	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.97	20.20	PASS
Band71	20MHz	16QAM	133222	100RB#0	18.037	20.00	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.97	20.07	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.97	20.07	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.97	20.07	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.97	19.93	PASS

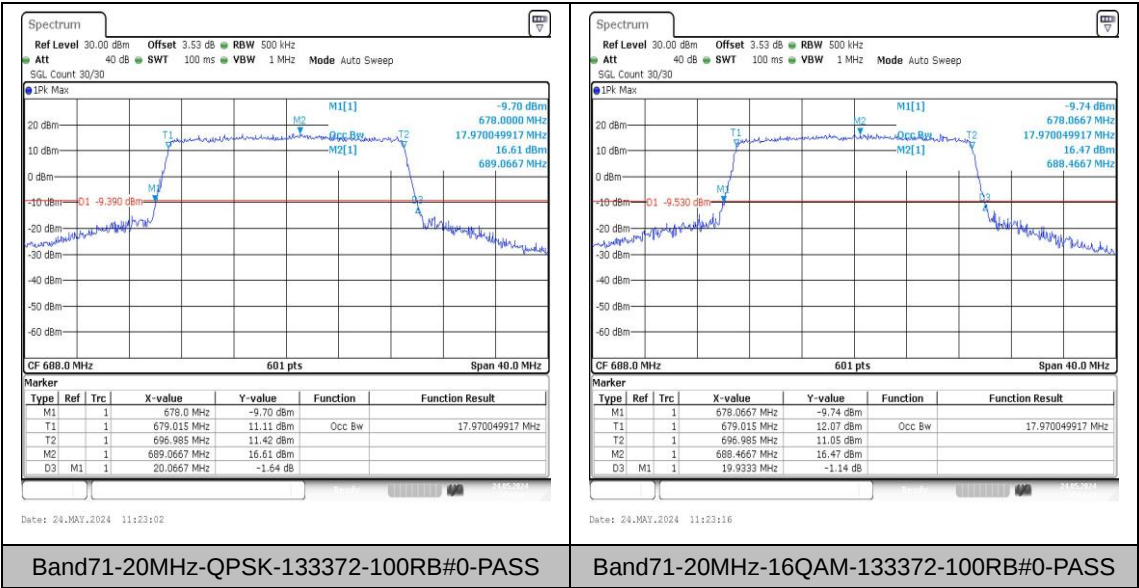
Test Graphs











Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	-24.79	PASS
Band71	5MHz	16QAM	133147	1RB#0	-25.07	PASS
Band71	5MHz	QPSK	133147	1RB#24	-55.88	PASS
Band71	5MHz	16QAM	133147	1RB#24	-56.03	PASS
Band71	5MHz	QPSK	133147	25RB#0	-28.15	PASS
Band71	5MHz	16QAM	133147	25RB#0	-28.23	PASS
Band71	5MHz	QPSK	133447	1RB#0	-53.52	PASS
Band71	5MHz	16QAM	133447	1RB#0	-53.30	PASS
Band71	5MHz	QPSK	133447	1RB#24	-25.27	PASS
Band71	5MHz	16QAM	133447	1RB#24	-25.74	PASS
Band71	5MHz	QPSK	133447	25RB#0	-28.88	PASS
Band71	5MHz	16QAM	133447	25RB#0	-29.38	PASS
Band71	10MHz	QPSK	133172	1RB#0	-37.06	PASS
Band71	10MHz	16QAM	133172	1RB#0	-37.15	PASS
Band71	10MHz	QPSK	133172	1RB#49	-56.92	PASS
Band71	10MHz	16QAM	133172	1RB#49	-56.95	PASS
Band71	10MHz	QPSK	133172	50RB#0	-34.16	PASS
Band71	10MHz	16QAM	133172	50RB#0	-34.83	PASS
Band71	10MHz	QPSK	133422	1RB#0	-56.54	PASS
Band71	10MHz	16QAM	133422	1RB#0	-56.76	PASS
Band71	10MHz	QPSK	133422	1RB#49	-37.86	PASS
Band71	10MHz	16QAM	133422	1RB#49	-36.85	PASS
Band71	10MHz	QPSK	133422	50RB#0	-35.79	PASS
Band71	10MHz	16QAM	133422	50RB#0	-36.22	PASS
Band71	15MHz	QPSK	133197	1RB#0	-35.62	PASS
Band71	15MHz	16QAM	133197	1RB#0	-35.70	PASS
Band71	15MHz	QPSK	133197	1RB#74	-51.75	PASS
Band71	15MHz	16QAM	133197	1RB#74	-51.98	PASS
Band71	15MHz	QPSK	133197	75RB#0	-36.51	PASS
Band71	15MHz	16QAM	133197	75RB#0	-37.53	PASS
Band71	15MHz	QPSK	133397	1RB#0	-51.07	PASS
Band71	15MHz	16QAM	133397	1RB#0	-51.19	PASS
Band71	15MHz	QPSK	133397	1RB#74	-36.11	PASS
Band71	15MHz	16QAM	133397	1RB#74	-36.47	PASS
Band71	15MHz	QPSK	133397	75RB#0	-38.04	PASS
Band71	15MHz	16QAM	133397	75RB#0	-38.77	PASS

Band71	20MHz	QPSK	133222	1RB#0	-36.47	PASS
Band71	20MHz	16QAM	133222	1RB#0	-36.85	PASS
Band71	20MHz	QPSK	133222	1RB#99	-57.05	PASS
Band71	20MHz	16QAM	133222	1RB#99	-56.95	PASS
Band71	20MHz	QPSK	133222	100RB#0	-38.94	PASS
Band71	20MHz	16QAM	133222	100RB#0	-39.37	PASS
Band71	20MHz	QPSK	133372	1RB#0	-56.97	PASS
Band71	20MHz	16QAM	133372	1RB#0	-56.89	PASS
Band71	20MHz	QPSK	133372	1RB#99	-37.09	PASS
Band71	20MHz	16QAM	133372	1RB#99	-37.76	PASS
Band71	20MHz	QPSK	133372	100RB#0	-41.52	PASS
Band71	20MHz	16QAM	133372	100RB#0	-40.99	PASS

Test Graphs

