

Appendix for LTE BAND 71

Product Name: Smart Phone

Model No: Nova

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.61	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.55	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.74	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.75	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.74	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.75	PASS
Band71	5MHz	QPSK	133147	12RB#0	22.54	PASS
Band71	5MHz	16QAM	133147	12RB#0	21.52	PASS
Band71	5MHz	QPSK	133147	12RB#6	22.56	PASS
Band71	5MHz	16QAM	133147	12RB#6	21.53	PASS
Band71	5MHz	QPSK	133147	12RB#13	22.70	PASS
Band71	5MHz	16QAM	133147	12RB#13	21.72	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.63	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.68	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.66	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.65	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.74	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.72	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.55	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.63	PASS
Band71	5MHz	QPSK	133297	12RB#0	22.67	PASS
Band71	5MHz	16QAM	133297	12RB#0	21.69	PASS
Band71	5MHz	QPSK	133297	12RB#6	22.61	PASS
Band71	5MHz	16QAM	133297	12RB#6	21.63	PASS
Band71	5MHz	QPSK	133297	12RB#13	22.61	PASS
Band71	5MHz	16QAM	133297	12RB#13	21.58	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.63	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.68	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.65	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.66	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.78	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.87	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.76	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.80	PASS
Band71	5MHz	QPSK	133447	12RB#0	22.76	PASS
Band71	5MHz	16QAM	133447	12RB#0	21.72	PASS

Band71	5MHz	QPSK	133447	12RB#6	22.71	PASS
Band71	5MHz	16QAM	133447	12RB#6	21.74	PASS
Band71	5MHz	QPSK	133447	12RB#13	22.82	PASS
Band71	5MHz	16QAM	133447	12RB#13	21.82	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.80	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.80	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.68	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.40	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.94	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.60	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.72	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.49	PASS
Band71	10MHz	QPSK	133172	25RB#0	22.70	PASS
Band71	10MHz	16QAM	133172	25RB#0	21.70	PASS
Band71	10MHz	QPSK	133172	25RB#12	22.73	PASS
Band71	10MHz	16QAM	133172	25RB#12	21.70	PASS
Band71	10MHz	QPSK	133172	25RB#25	22.77	PASS
Band71	10MHz	16QAM	133172	25RB#25	21.80	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.75	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.71	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.58	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.82	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.59	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.64	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.54	PASS
Band71	10MHz	QPSK	133297	25RB#0	22.70	PASS
Band71	10MHz	16QAM	133297	25RB#0	21.71	PASS
Band71	10MHz	QPSK	133297	25RB#12	22.68	PASS
Band71	10MHz	16QAM	133297	25RB#12	21.73	PASS
Band71	10MHz	QPSK	133297	25RB#25	22.71	PASS
Band71	10MHz	16QAM	133297	25RB#25	21.70	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.71	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.74	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.64	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.52	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.86	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.71	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.88	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.69	PASS
Band71	10MHz	QPSK	133422	25RB#0	22.81	PASS
Band71	10MHz	16QAM	133422	25RB#0	21.82	PASS

Band71	10MHz	QPSK	133422	25RB#12	22.82	PASS
Band71	10MHz	16QAM	133422	25RB#12	21.78	PASS
Band71	10MHz	QPSK	133422	25RB#25	22.89	PASS
Band71	10MHz	16QAM	133422	25RB#25	21.85	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.81	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.81	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.65	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.56	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.80	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.71	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.64	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.53	PASS
Band71	15MHz	QPSK	133197	38RB#0	22.53	PASS
Band71	15MHz	16QAM	133197	38RB#0	22.53	PASS
Band71	15MHz	QPSK	133197	38RB#18	22.75	PASS
Band71	15MHz	16QAM	133197	38RB#18	22.73	PASS
Band71	15MHz	QPSK	133197	38RB#37	22.53	PASS
Band71	15MHz	16QAM	133197	38RB#37	22.54	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.82	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.81	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.70	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.85	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.64	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.86	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.51	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.70	PASS
Band71	15MHz	QPSK	133297	38RB#0	22.82	PASS
Band71	15MHz	16QAM	133297	38RB#0	22.82	PASS
Band71	15MHz	QPSK	133297	38RB#18	22.79	PASS
Band71	15MHz	16QAM	133297	38RB#18	22.80	PASS
Band71	15MHz	QPSK	133297	38RB#37	22.71	PASS
Band71	15MHz	16QAM	133297	38RB#37	22.72	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.67	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.65	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.53	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.71	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.64	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.88	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.69	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.95	PASS
Band71	15MHz	QPSK	133397	38RB#0	22.73	PASS
Band71	15MHz	16QAM	133397	38RB#0	22.64	PASS

Band71	15MHz	QPSK	133397	38RB#18	22.84	PASS
Band71	15MHz	16QAM	133397	38RB#18	22.82	PASS
Band71	15MHz	QPSK	133397	38RB#37	22.93	PASS
Band71	15MHz	16QAM	133397	38RB#37	22.92	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.83	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.76	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.53	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.56	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.96	PASS
Band71	20MHz	16QAM	133222	1RB#49	23.02	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.45	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.55	PASS
Band71	20MHz	QPSK	133222	50RB#0	22.78	PASS
Band71	20MHz	16QAM	133222	50RB#0	21.79	PASS
Band71	20MHz	QPSK	133222	50RB#25	22.75	PASS
Band71	20MHz	16QAM	133222	50RB#25	21.77	PASS
Band71	20MHz	QPSK	133222	50RB#50	22.81	PASS
Band71	20MHz	16QAM	133222	50RB#50	21.81	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.75	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.73	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.65	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.66	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.84	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.56	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.65	PASS
Band71	20MHz	QPSK	133322	50RB#0	22.72	PASS
Band71	20MHz	16QAM	133322	50RB#0	21.73	PASS
Band71	20MHz	QPSK	133322	50RB#25	22.71	PASS
Band71	20MHz	16QAM	133322	50RB#25	21.71	PASS
Band71	20MHz	QPSK	133322	50RB#50	22.68	PASS
Band71	20MHz	16QAM	133322	50RB#50	21.66	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.71	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.70	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.54	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.69	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.78	PASS
Band71	20MHz	16QAM	133372	1RB#49	23.01	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.63	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.83	PASS
Band71	20MHz	QPSK	133372	50RB#0	22.82	PASS
Band71	20MHz	16QAM	133372	50RB#0	21.80	PASS

Band71	20MHz	QPSK	133372	50RB#25	22.78	PASS
Band71	20MHz	16QAM	133372	50RB#25	21.85	PASS
Band71	20MHz	QPSK	133372	50RB#50	22.80	PASS
Band71	20MHz	16QAM	133372	50RB#50	21.81	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.84	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.81	PASS

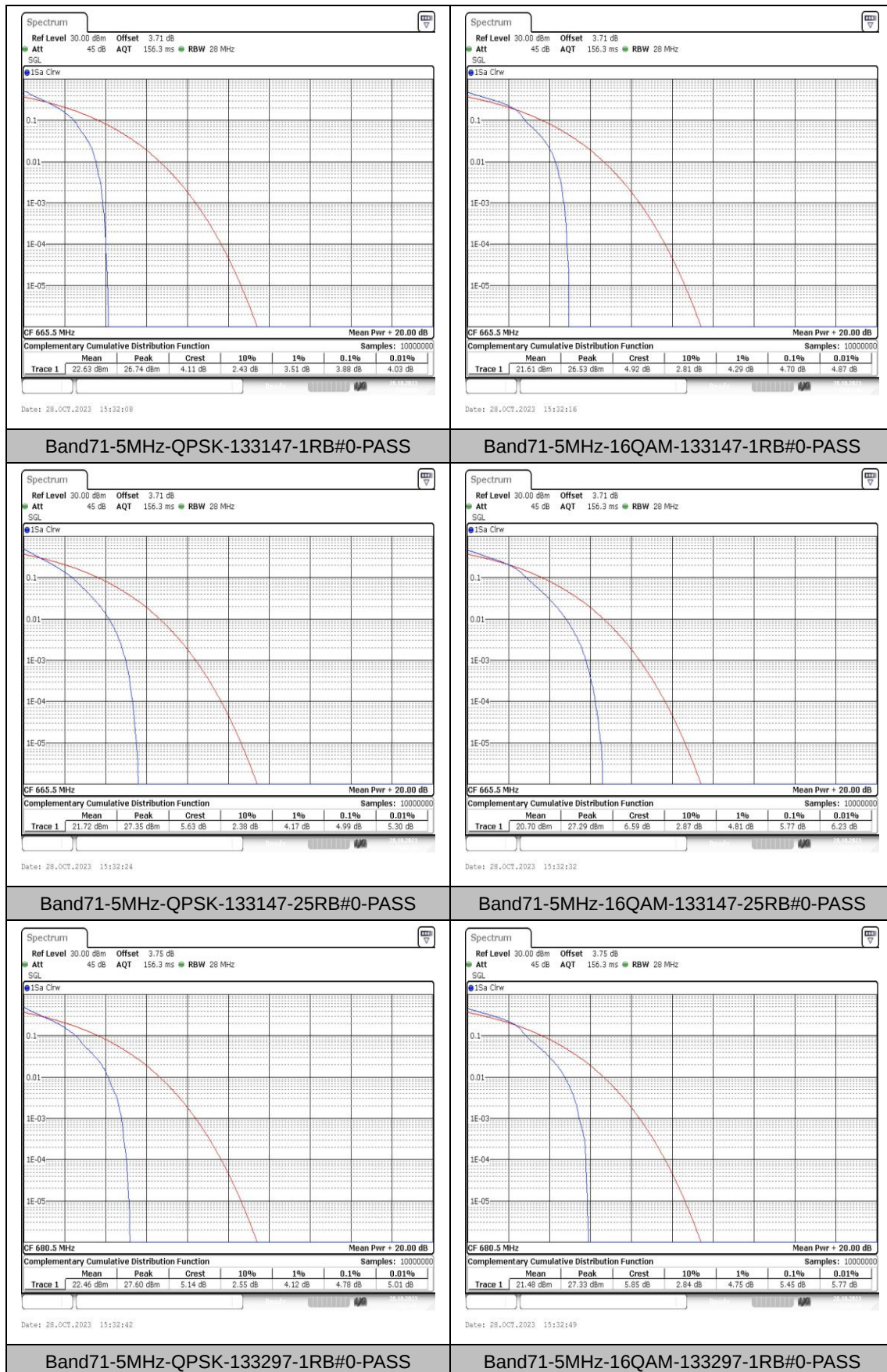
Appendix B: Peak-to-Average Ratio(CCDF)

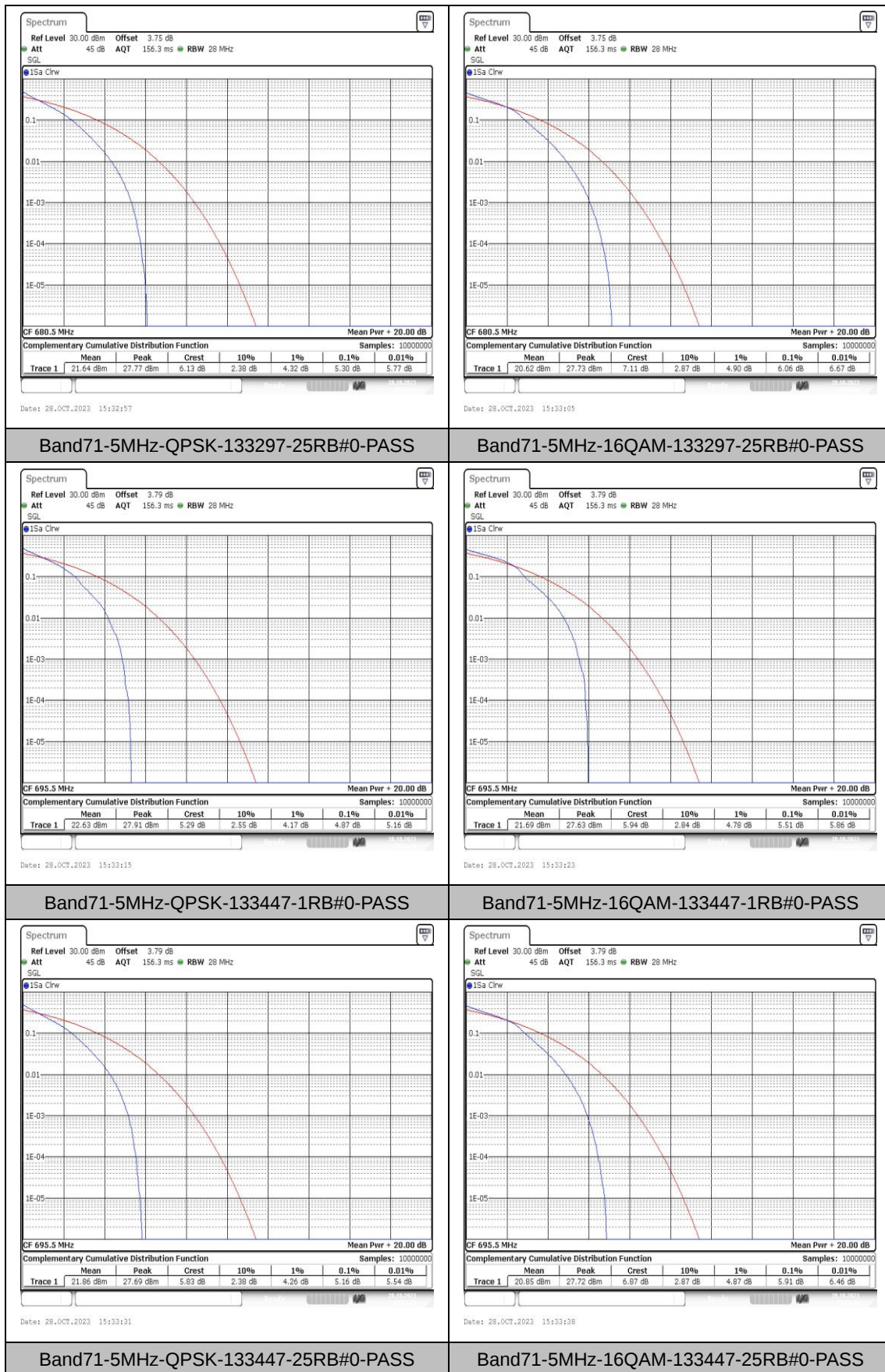
Test Result

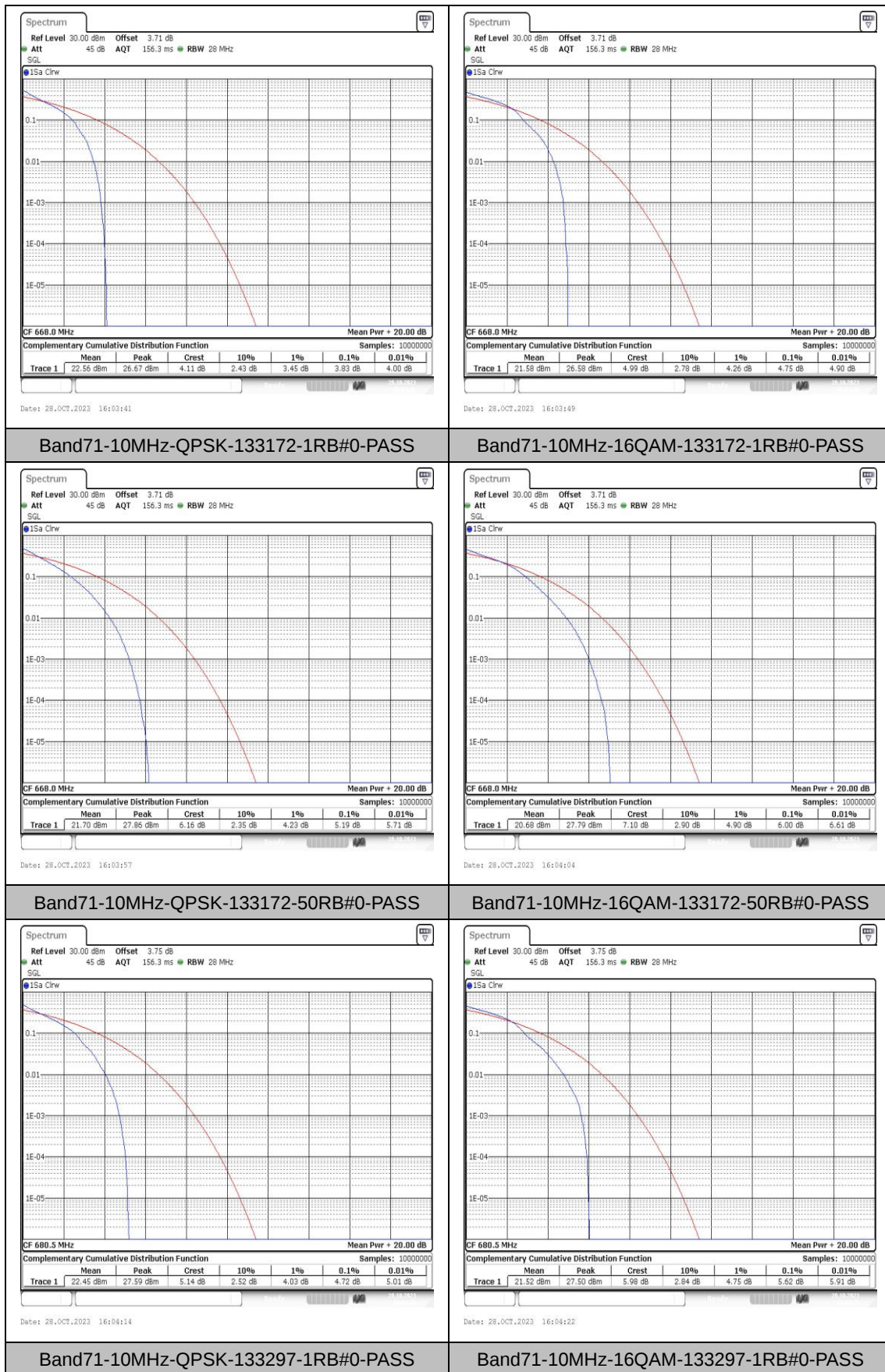
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	3.88	13	PASS
Band71	5MHz	16QAM	133147	1RB#0	4.70	13	PASS
Band71	5MHz	QPSK	133147	25RB#0	4.99	13	PASS
Band71	5MHz	16QAM	133147	25RB#0	5.77	13	PASS
Band71	5MHz	QPSK	133297	1RB#0	4.78	13	PASS
Band71	5MHz	16QAM	133297	1RB#0	5.45	13	PASS
Band71	5MHz	QPSK	133297	25RB#0	5.30	13	PASS
Band71	5MHz	16QAM	133297	25RB#0	6.06	13	PASS
Band71	5MHz	QPSK	133447	1RB#0	4.87	13	PASS
Band71	5MHz	16QAM	133447	1RB#0	5.51	13	PASS
Band71	5MHz	QPSK	133447	25RB#0	5.16	13	PASS
Band71	5MHz	16QAM	133447	25RB#0	5.91	13	PASS
Band71	10MHz	QPSK	133172	1RB#0	3.83	13	PASS
Band71	10MHz	16QAM	133172	1RB#0	4.75	13	PASS
Band71	10MHz	QPSK	133172	50RB#0	5.19	13	PASS
Band71	10MHz	16QAM	133172	50RB#0	6.00	13	PASS
Band71	10MHz	QPSK	133297	1RB#0	4.72	13	PASS
Band71	10MHz	16QAM	133297	1RB#0	5.62	13	PASS
Band71	10MHz	QPSK	133297	50RB#0	5.30	13	PASS
Band71	10MHz	16QAM	133297	50RB#0	6.09	13	PASS
Band71	10MHz	QPSK	133422	1RB#0	4.99	13	PASS
Band71	10MHz	16QAM	133422	1RB#0	5.77	13	PASS
Band71	10MHz	QPSK	133422	50RB#0	5.28	13	PASS
Band71	10MHz	16QAM	133422	50RB#0	6.09	13	PASS
Band71	15MHz	QPSK	133197	1RB#0	3.91	13	PASS
Band71	15MHz	16QAM	133197	1RB#0	4.87	13	PASS
Band71	15MHz	QPSK	133197	75RB#0	5.48	13	PASS
Band71	15MHz	16QAM	133197	75RB#0	6.09	13	PASS
Band71	15MHz	QPSK	133297	1RB#0	4.81	13	PASS
Band71	15MHz	16QAM	133297	1RB#0	5.68	13	PASS
Band71	15MHz	QPSK	133297	75RB#0	5.51	13	PASS
Band71	15MHz	16QAM	133297	75RB#0	6.12	13	PASS
Band71	15MHz	QPSK	133397	1RB#0	4.96	13	PASS
Band71	15MHz	16QAM	133397	1RB#0	5.80	13	PASS
Band71	15MHz	QPSK	133397	75RB#0	5.54	13	PASS
Band71	15MHz	16QAM	133397	75RB#0	6.14	13	PASS
Band71	20MHz	QPSK	133222	1RB#0	4.03	13	PASS

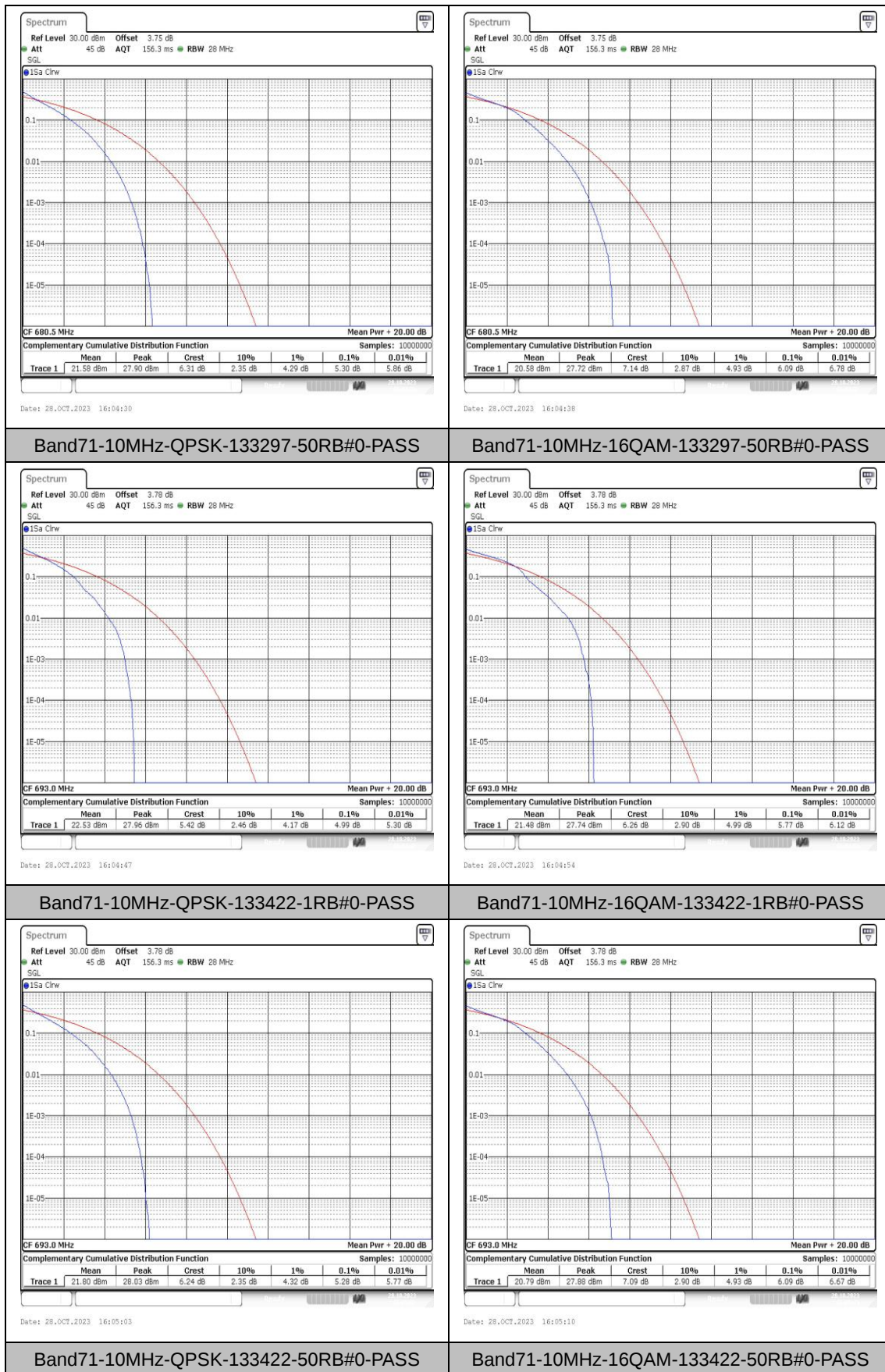
Band71	20MHz	16QAM	133222	1RB#0	4.84	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.28	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.09	13	PASS
Band71	20MHz	QPSK	133322	1RB#0	4.81	13	PASS
Band71	20MHz	16QAM	133322	1RB#0	5.48	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.25	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.09	13	PASS
Band71	20MHz	QPSK	133372	1RB#0	4.84	13	PASS
Band71	20MHz	16QAM	133372	1RB#0	5.77	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.30	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.09	13	PASS

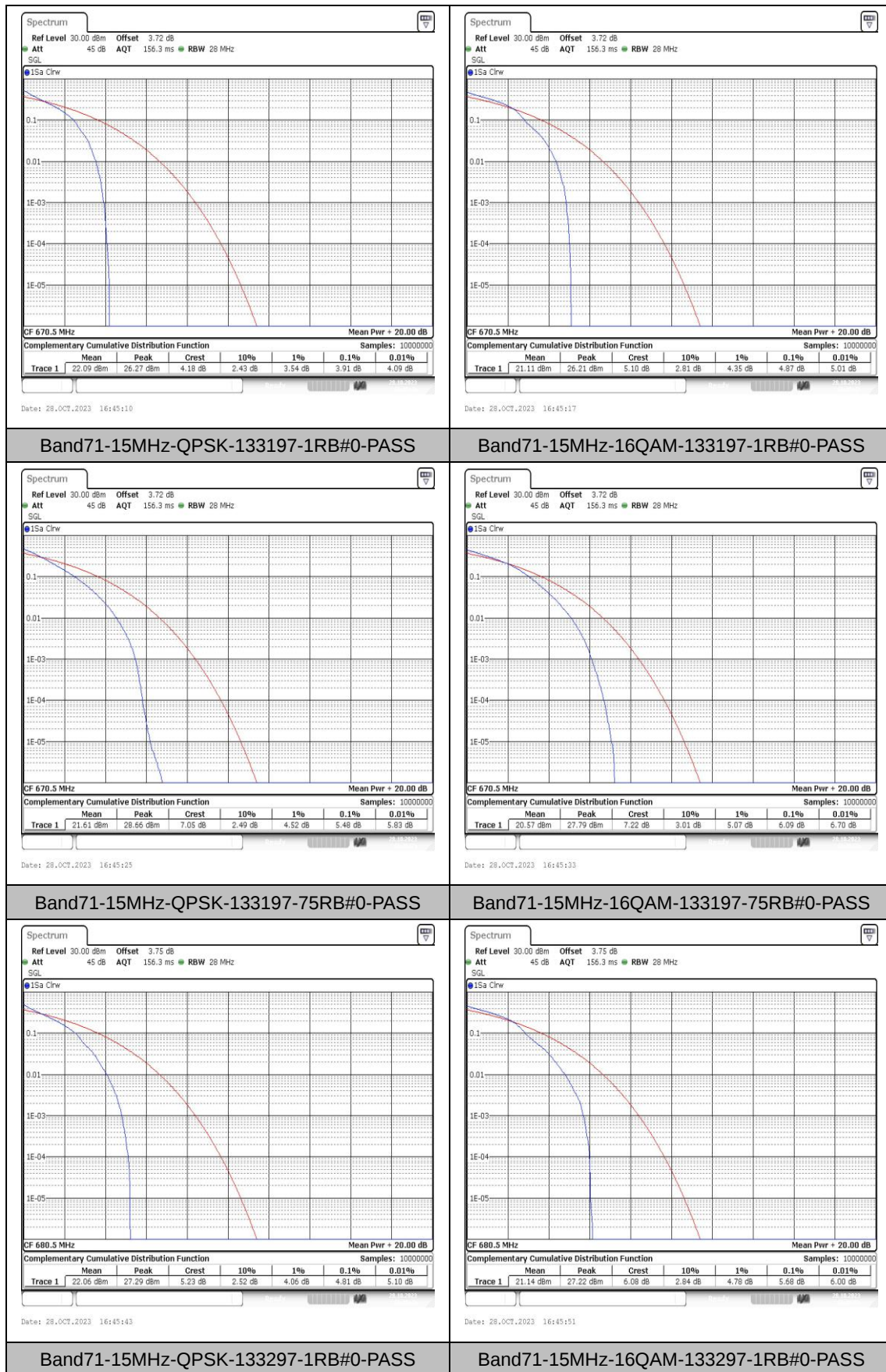
Test Graphs

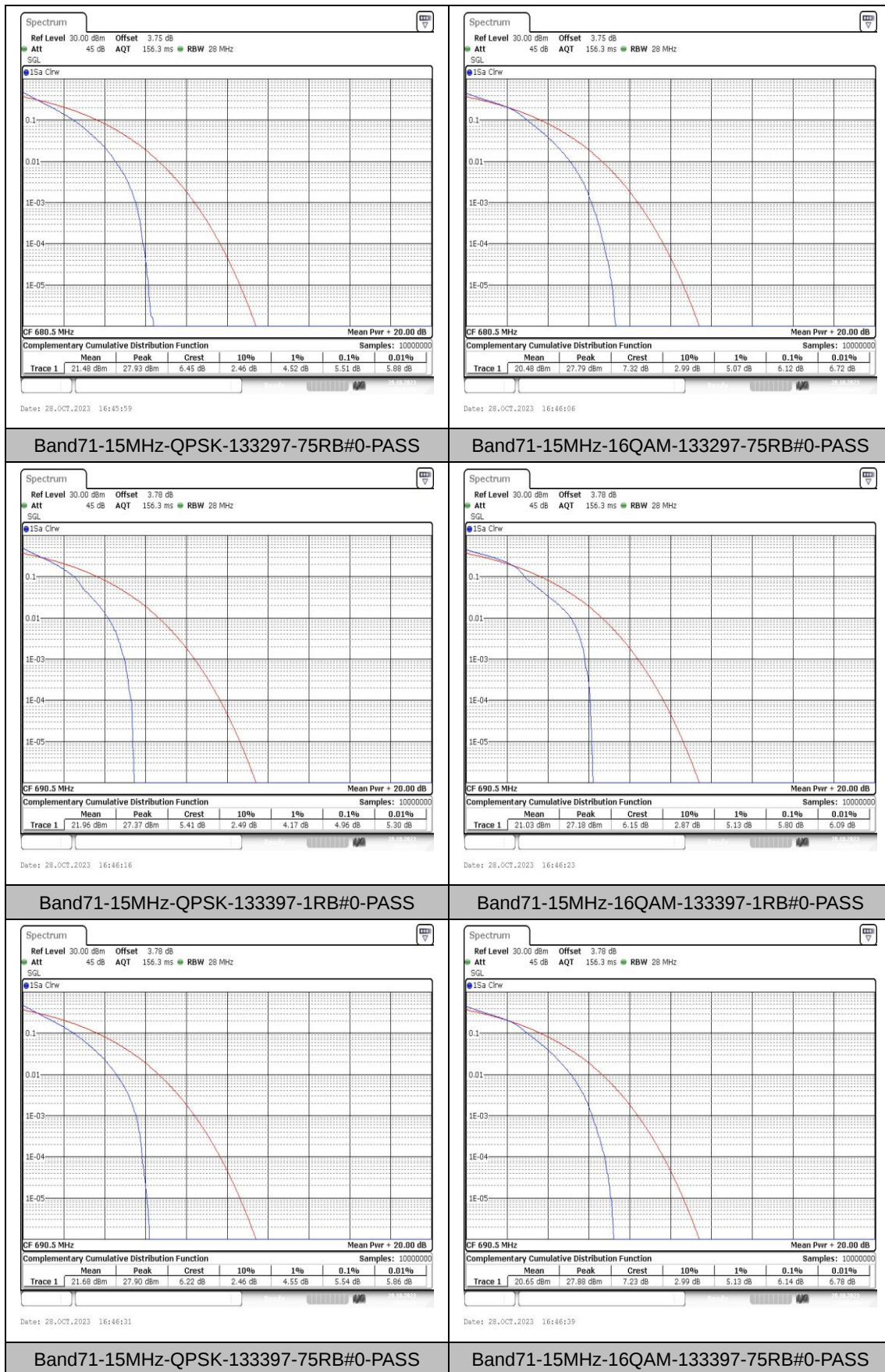


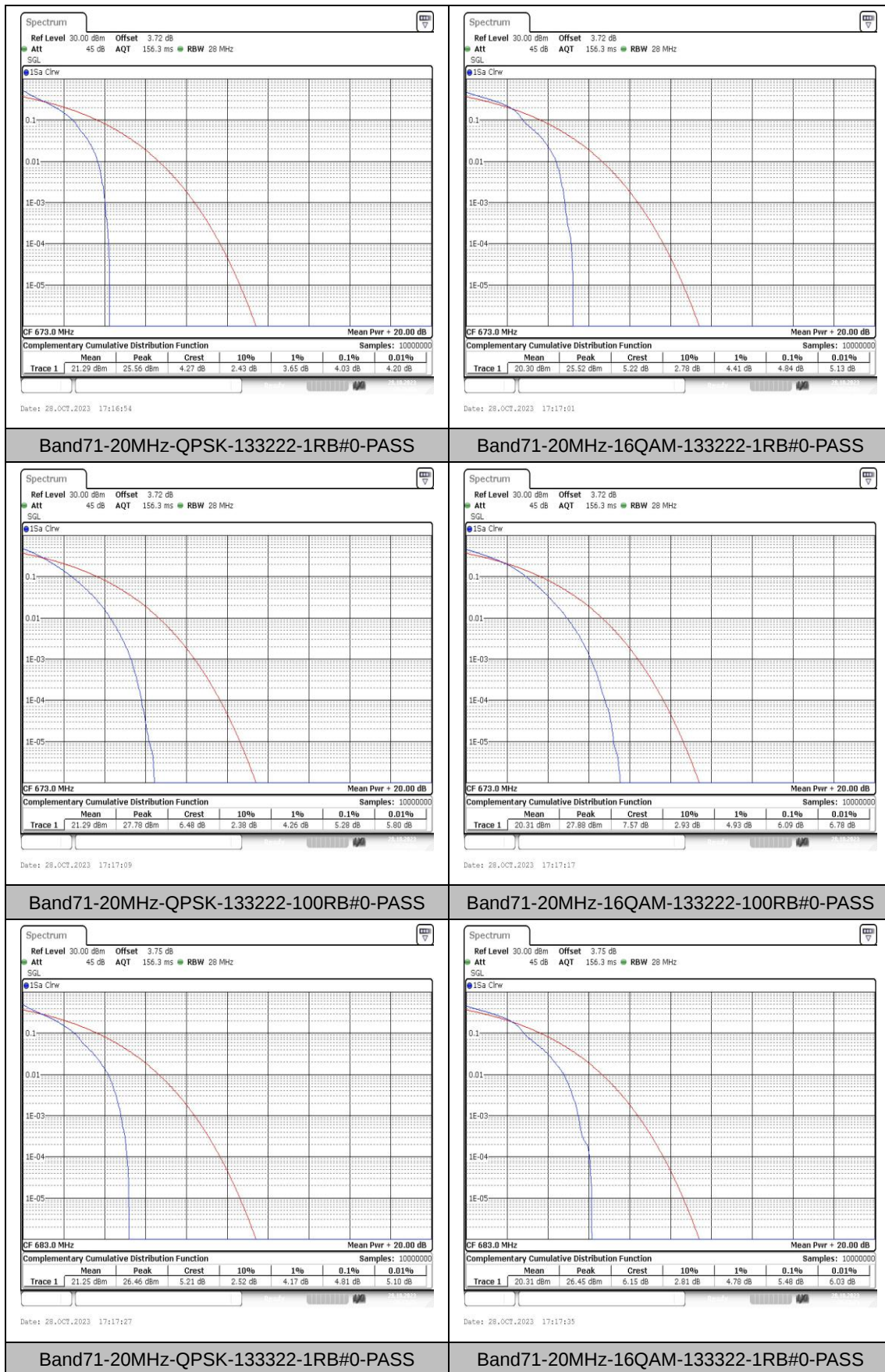


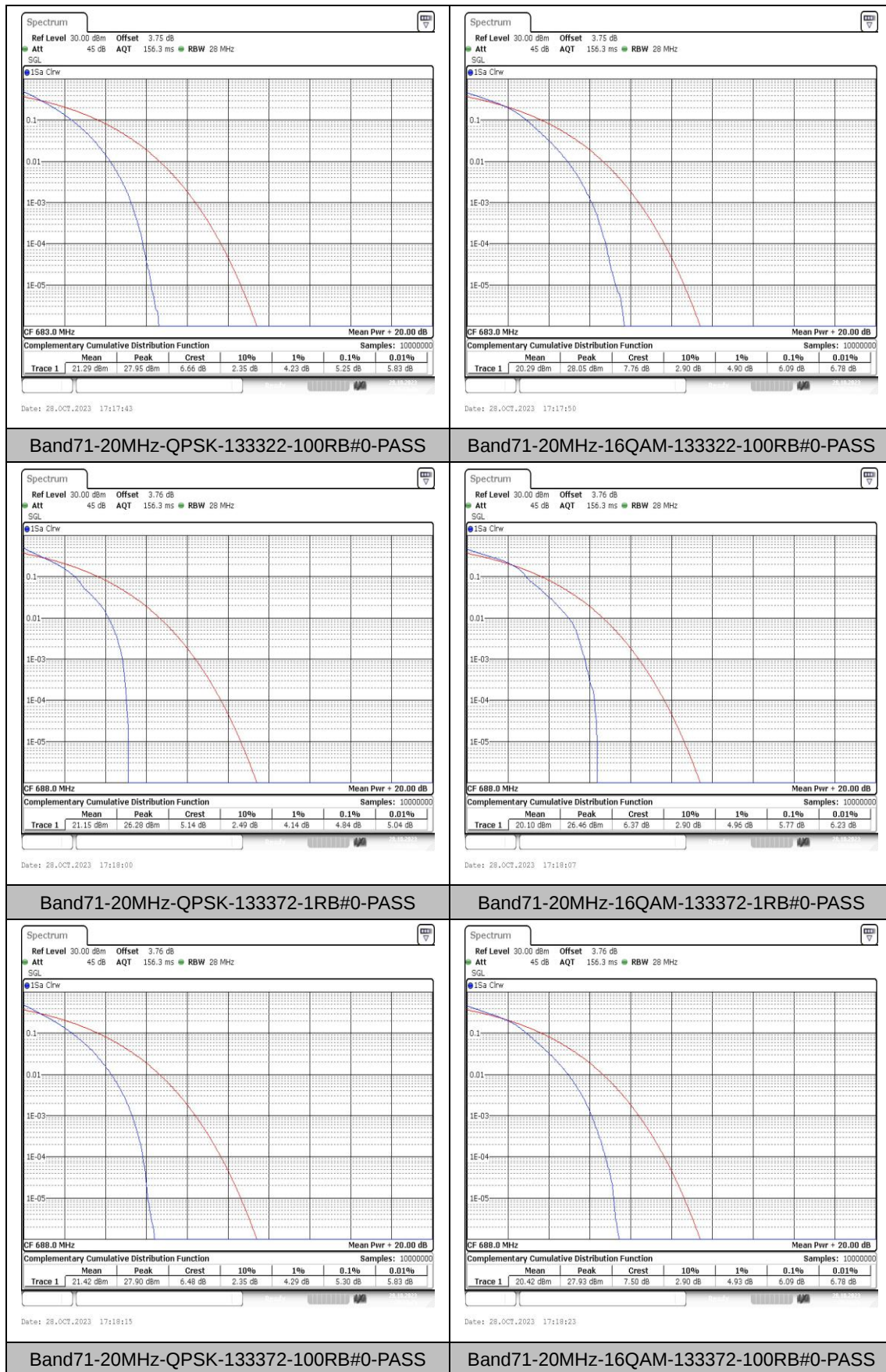










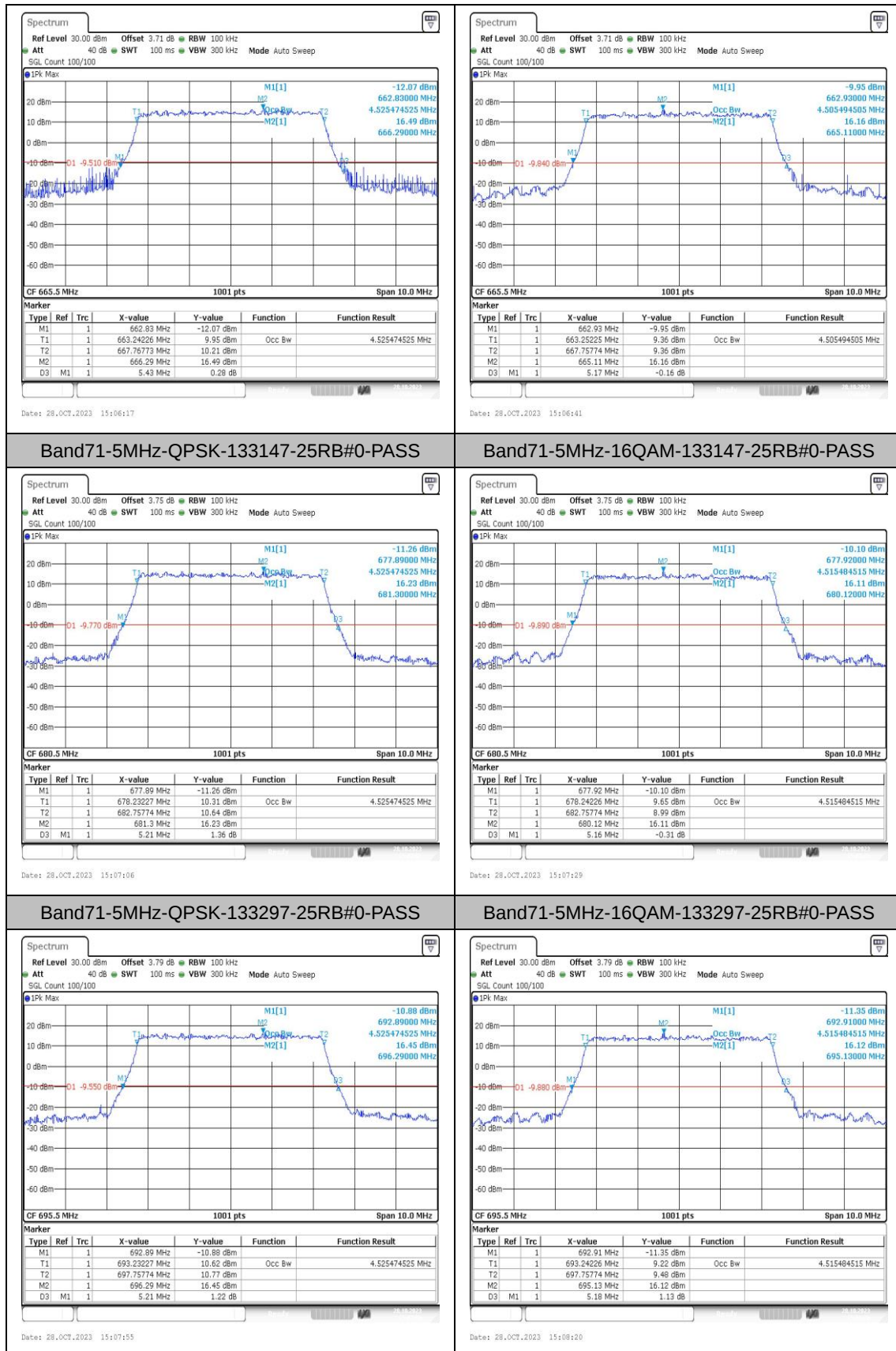


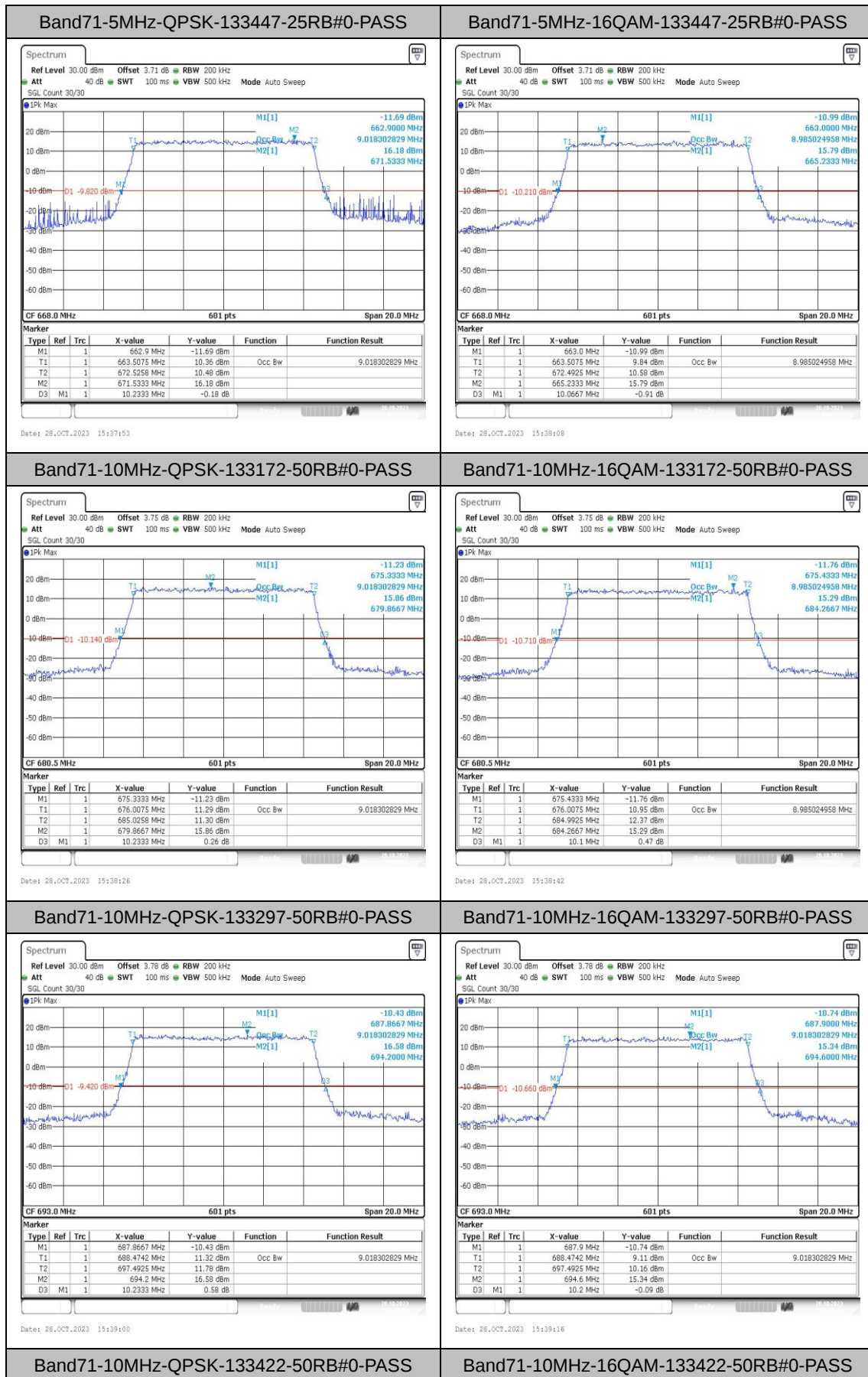
Appendix C: 26dB Bandwidth and Occupied Bandwidth

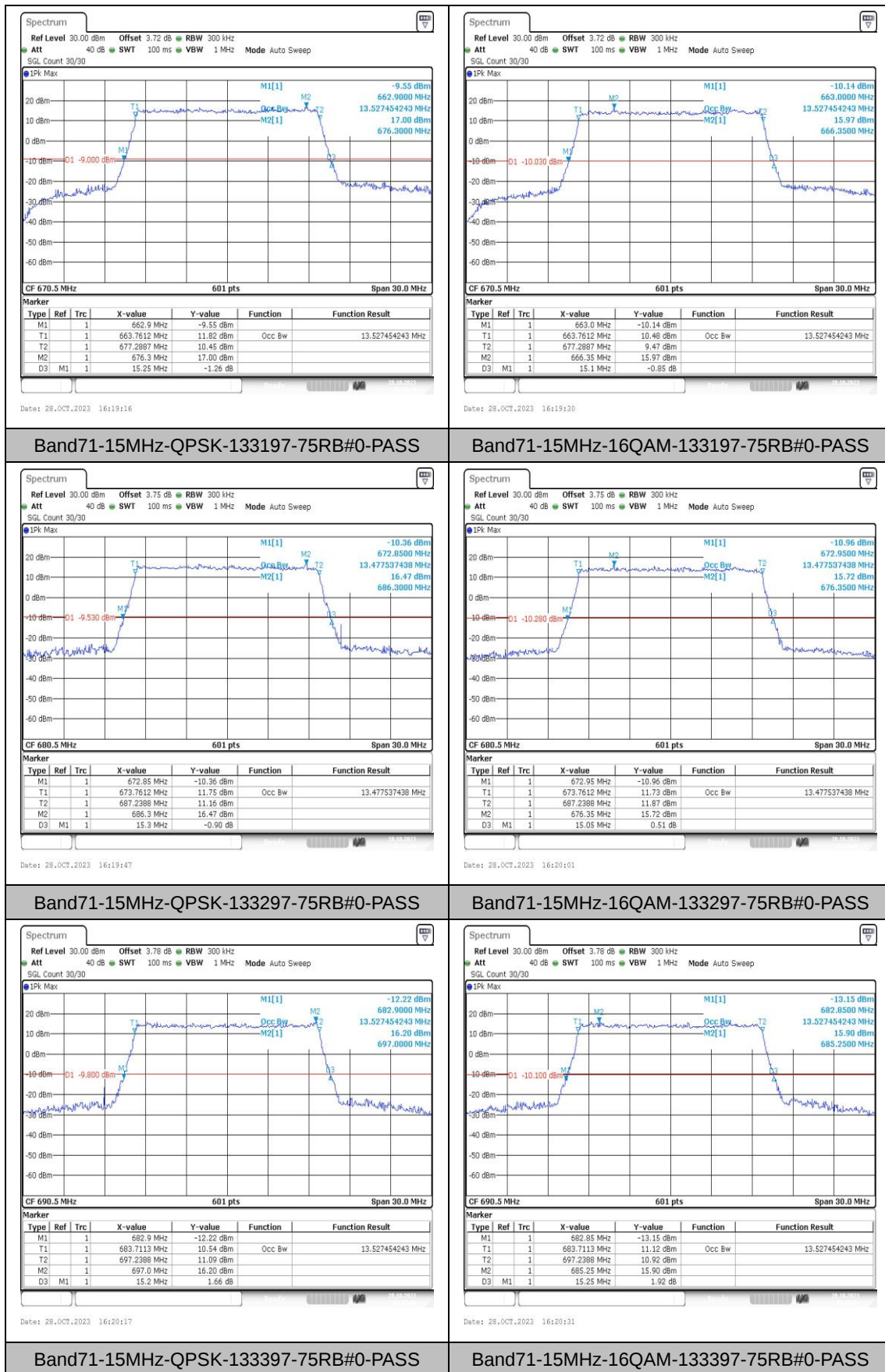
Test Result

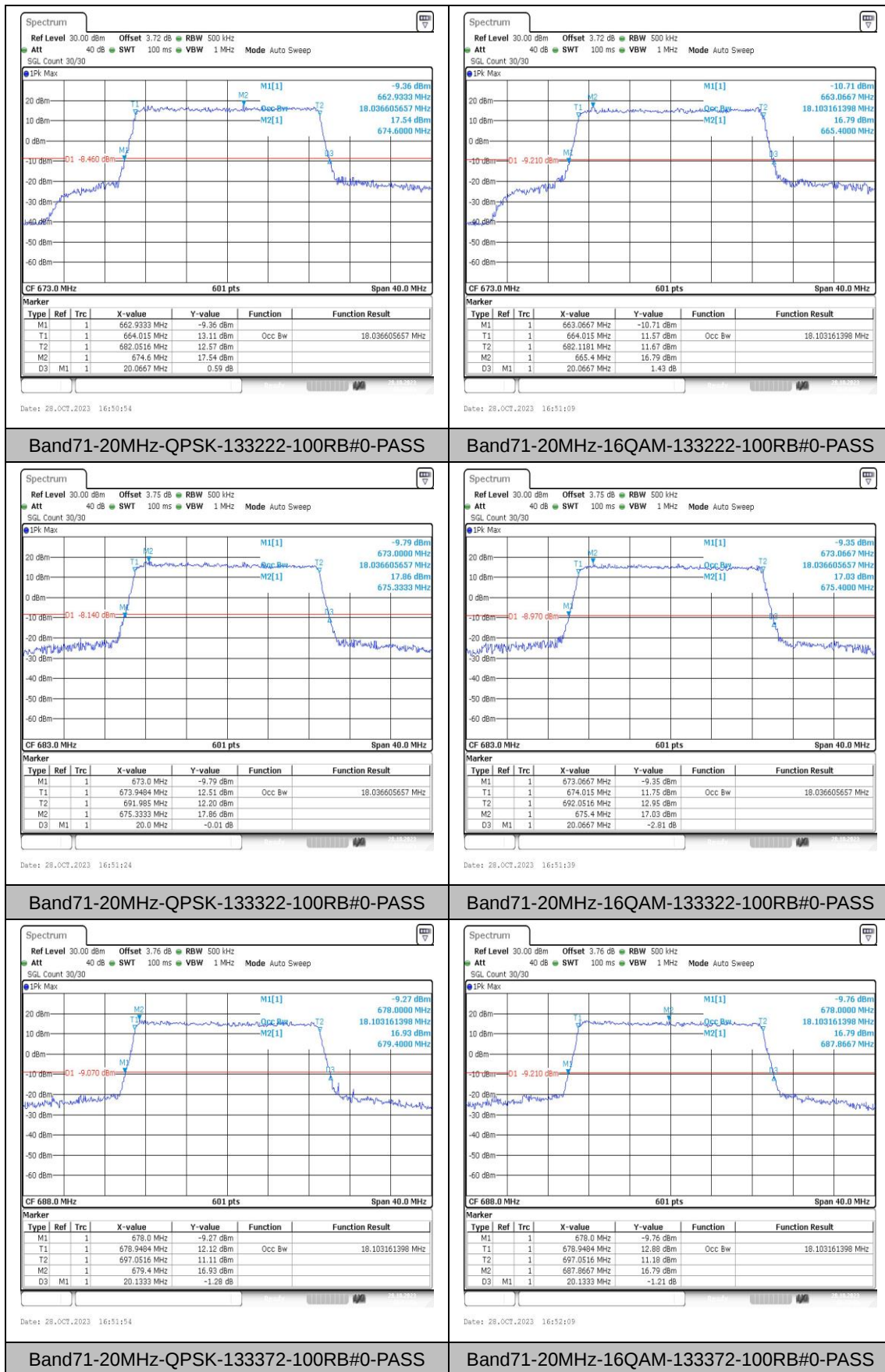
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.525	5.43	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.505	5.17	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.525	5.21	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.515	5.16	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.525	5.21	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.515	5.18	PASS
Band71	10MHz	QPSK	133172	50RB#0	9.018	10.23	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.985	10.07	PASS
Band71	10MHz	QPSK	133297	50RB#0	9.018	10.23	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.985	10.10	PASS
Band71	10MHz	QPSK	133422	50RB#0	9.018	10.23	PASS
Band71	10MHz	16QAM	133422	50RB#0	9.018	10.20	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.527	15.25	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.527	15.10	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.478	15.30	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.478	15.05	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.527	15.20	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.527	15.25	PASS
Band71	20MHz	QPSK	133222	100RB#0	18.037	20.07	PASS
Band71	20MHz	16QAM	133222	100RB#0	18.103	20.07	PASS
Band71	20MHz	QPSK	133322	100RB#0	18.037	20.00	PASS
Band71	20MHz	16QAM	133322	100RB#0	18.037	20.07	PASS
Band71	20MHz	QPSK	133372	100RB#0	18.103	20.13	PASS
Band71	20MHz	16QAM	133372	100RB#0	18.103	20.13	PASS

Test Graphs









Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	-15.88	PASS
Band71	5MHz	16QAM	133147	1RB#0	-16.76	PASS
Band71	5MHz	QPSK	133147	1RB#24	-41.87	PASS
Band71	5MHz	16QAM	133147	1RB#24	-43.01	PASS
Band71	5MHz	QPSK	133147	25RB#0	-27.03	PASS
Band71	5MHz	16QAM	133147	25RB#0	-29.42	PASS
Band71	5MHz	QPSK	133447	1RB#0	-37.01	PASS
Band71	5MHz	16QAM	133447	1RB#0	-37.72	PASS
Band71	5MHz	QPSK	133447	1RB#24	-15.42	PASS
Band71	5MHz	16QAM	133447	1RB#24	-16.00	PASS
Band71	5MHz	QPSK	133447	25RB#0	-27.81	PASS
Band71	5MHz	16QAM	133447	25RB#0	-27.97	PASS
Band71	10MHz	QPSK	133172	1RB#0	-20.16	PASS
Band71	10MHz	16QAM	133172	1RB#0	-21.09	PASS
Band71	10MHz	QPSK	133172	1RB#49	-49.91	PASS
Band71	10MHz	16QAM	133172	1RB#49	-49.73	PASS
Band71	10MHz	QPSK	133172	50RB#0	-33.42	PASS
Band71	10MHz	16QAM	133172	50RB#0	-35.10	PASS
Band71	10MHz	QPSK	133422	1RB#0	-45.74	PASS
Band71	10MHz	16QAM	133422	1RB#0	-46.88	PASS
Band71	10MHz	QPSK	133422	1RB#49	-19.09	PASS
Band71	10MHz	16QAM	133422	1RB#49	-18.66	PASS
Band71	10MHz	QPSK	133422	50RB#0	-33.79	PASS
Band71	10MHz	16QAM	133422	50RB#0	-34.20	PASS
Band71	15MHz	QPSK	133197	1RB#0	-22.58	PASS
Band71	15MHz	16QAM	133197	1RB#0	-23.11	PASS
Band71	15MHz	QPSK	133197	1RB#74	-51.75	PASS
Band71	15MHz	16QAM	133197	1RB#74	-51.26	PASS
Band71	15MHz	QPSK	133197	75RB#0	-35.84	PASS
Band71	15MHz	16QAM	133197	75RB#0	-37.67	PASS
Band71	15MHz	QPSK	133397	1RB#0	-50.10	PASS
Band71	15MHz	16QAM	133397	1RB#0	-50.79	PASS
Band71	15MHz	QPSK	133397	1RB#74	-22.21	PASS
Band71	15MHz	16QAM	133397	1RB#74	-22.69	PASS
Band71	15MHz	QPSK	133397	75RB#0	-35.72	PASS

Band71	15MHz	16QAM	133397	75RB#0	-37.55	PASS
Band71	20MHz	QPSK	133222	1RB#0	-26.52	PASS
Band71	20MHz	16QAM	133222	1RB#0	-27.12	PASS
Band71	20MHz	QPSK	133222	1RB#99	-52.46	PASS
Band71	20MHz	16QAM	133222	1RB#99	-52.25	PASS
Band71	20MHz	QPSK	133222	100RB#0	-39.29	PASS
Band71	20MHz	16QAM	133222	100RB#0	-41.11	PASS
Band71	20MHz	QPSK	133372	1RB#0	-52.22	PASS
Band71	20MHz	16QAM	133372	1RB#0	-52.07	PASS
Band71	20MHz	QPSK	133372	1RB#99	-25.92	PASS
Band71	20MHz	16QAM	133372	1RB#99	-26.59	PASS
Band71	20MHz	QPSK	133372	100RB#0	-38.61	PASS
Band71	20MHz	16QAM	133372	100RB#0	-39.78	PASS

Test Graphs

