

Appendix for LTE BAND 7

Product Name: Mobile Phone

Model No: IDOL

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	20.47	PASS
Band7	5MHz	16QAM	20775	1RB#0	19.77	PASS
Band7	5MHz	QPSK	20775	1RB#12	20.44	PASS
Band7	5MHz	16QAM	20775	1RB#12	19.79	PASS
Band7	5MHz	QPSK	20775	1RB#24	20.50	PASS
Band7	5MHz	16QAM	20775	1RB#24	19.78	PASS
Band7	5MHz	QPSK	20775	12RB#0	19.72	PASS
Band7	5MHz	16QAM	20775	12RB#0	18.75	PASS
Band7	5MHz	QPSK	20775	12RB#6	19.68	PASS
Band7	5MHz	16QAM	20775	12RB#6	18.75	PASS
Band7	5MHz	QPSK	20775	12RB#13	19.74	PASS
Band7	5MHz	16QAM	20775	12RB#13	18.84	PASS
Band7	5MHz	QPSK	20775	25RB#0	19.77	PASS
Band7	5MHz	16QAM	20775	25RB#0	18.96	PASS
Band7	5MHz	QPSK	21100	1RB#0	20.28	PASS
Band7	5MHz	16QAM	21100	1RB#0	20.31	PASS
Band7	5MHz	QPSK	21100	1RB#12	20.27	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.31	PASS
Band7	5MHz	QPSK	21100	1RB#24	20.19	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.26	PASS
Band7	5MHz	QPSK	21100	12RB#0	19.61	PASS
Band7	5MHz	16QAM	21100	12RB#0	18.73	PASS
Band7	5MHz	QPSK	21100	12RB#6	19.65	PASS
Band7	5MHz	16QAM	21100	12RB#6	18.71	PASS
Band7	5MHz	QPSK	21100	12RB#13	19.61	PASS
Band7	5MHz	16QAM	21100	12RB#13	18.63	PASS
Band7	5MHz	QPSK	21100	25RB#0	19.64	PASS
Band7	5MHz	16QAM	21100	25RB#0	18.73	PASS
Band7	5MHz	QPSK	21425	1RB#0	20.34	PASS
Band7	5MHz	16QAM	21425	1RB#0	19.66	PASS
Band7	5MHz	QPSK	21425	1RB#12	20.24	PASS
Band7	5MHz	16QAM	21425	1RB#12	19.64	PASS
Band7	5MHz	QPSK	21425	1RB#24	20.39	PASS
Band7	5MHz	16QAM	21425	1RB#24	19.64	PASS
Band7	5MHz	QPSK	21425	12RB#0	19.72	PASS
Band7	5MHz	16QAM	21425	12RB#0	18.49	PASS

Band7	5MHz	QPSK	21425	12RB#6	19.74	PASS
Band7	5MHz	16QAM	21425	12RB#6	18.51	PASS
Band7	5MHz	QPSK	21425	12RB#13	19.68	PASS
Band7	5MHz	16QAM	21425	12RB#13	18.61	PASS
Band7	5MHz	QPSK	21425	25RB#0	19.73	PASS
Band7	5MHz	16QAM	21425	25RB#0	18.72	PASS
Band7	10MHz	QPSK	20800	1RB#0	20.44	PASS
Band7	10MHz	16QAM	20800	1RB#0	20.31	PASS
Band7	10MHz	QPSK	20800	1RB#24	20.39	PASS
Band7	10MHz	16QAM	20800	1RB#24	20.35	PASS
Band7	10MHz	QPSK	20800	1RB#49	20.40	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.36	PASS
Band7	10MHz	QPSK	20800	25RB#0	19.83	PASS
Band7	10MHz	16QAM	20800	25RB#0	18.86	PASS
Band7	10MHz	QPSK	20800	25RB#12	19.86	PASS
Band7	10MHz	16QAM	20800	25RB#12	18.89	PASS
Band7	10MHz	QPSK	20800	25RB#25	19.69	PASS
Band7	10MHz	16QAM	20800	25RB#25	18.77	PASS
Band7	10MHz	QPSK	20800	50RB#0	19.81	PASS
Band7	10MHz	16QAM	20800	50RB#0	18.84	PASS
Band7	10MHz	QPSK	21100	1RB#0	20.37	PASS
Band7	10MHz	16QAM	21100	1RB#0	19.96	PASS
Band7	10MHz	QPSK	21100	1RB#24	20.33	PASS
Band7	10MHz	16QAM	21100	1RB#24	19.92	PASS
Band7	10MHz	QPSK	21100	1RB#49	20.34	PASS
Band7	10MHz	16QAM	21100	1RB#49	19.93	PASS
Band7	10MHz	QPSK	21100	25RB#0	19.72	PASS
Band7	10MHz	16QAM	21100	25RB#0	18.82	PASS
Band7	10MHz	QPSK	21100	25RB#12	19.55	PASS
Band7	10MHz	16QAM	21100	25RB#12	18.89	PASS
Band7	10MHz	QPSK	21100	25RB#25	19.59	PASS
Band7	10MHz	16QAM	21100	25RB#25	18.78	PASS
Band7	10MHz	QPSK	21100	50RB#0	19.63	PASS
Band7	10MHz	16QAM	21100	50RB#0	18.70	PASS
Band7	10MHz	QPSK	21400	1RB#0	20.34	PASS
Band7	10MHz	16QAM	21400	1RB#0	20.74	PASS
Band7	10MHz	QPSK	21400	1RB#24	20.32	PASS
Band7	10MHz	16QAM	21400	1RB#24	20.80	PASS
Band7	10MHz	QPSK	21400	1RB#49	20.49	PASS
Band7	10MHz	16QAM	21400	1RB#49	20.74	PASS
Band7	10MHz	QPSK	21400	25RB#0	19.69	PASS
Band7	10MHz	16QAM	21400	25RB#0	18.86	PASS

Band7	10MHz	QPSK	21400	25RB#12	19.73	PASS
Band7	10MHz	16QAM	21400	25RB#12	18.88	PASS
Band7	10MHz	QPSK	21400	25RB#25	19.60	PASS
Band7	10MHz	16QAM	21400	25RB#25	18.95	PASS
Band7	10MHz	QPSK	21400	50RB#0	19.68	PASS
Band7	10MHz	16QAM	21400	50RB#0	18.89	PASS
Band7	15MHz	QPSK	20825	1RB#0	20.43	PASS
Band7	15MHz	16QAM	20825	1RB#0	20.38	PASS
Band7	15MHz	QPSK	20825	1RB#38	20.36	PASS
Band7	15MHz	16QAM	20825	1RB#38	20.36	PASS
Band7	15MHz	QPSK	20825	1RB#74	20.24	PASS
Band7	15MHz	16QAM	20825	1RB#74	20.36	PASS
Band7	15MHz	QPSK	20825	38RB#0	19.76	PASS
Band7	15MHz	16QAM	20825	38RB#0	19.77	PASS
Band7	15MHz	QPSK	20825	38RB#18	19.77	PASS
Band7	15MHz	16QAM	20825	38RB#18	19.77	PASS
Band7	15MHz	QPSK	20825	38RB#37	19.77	PASS
Band7	15MHz	16QAM	20825	38RB#37	19.77	PASS
Band7	15MHz	QPSK	20825	75RB#0	19.78	PASS
Band7	15MHz	16QAM	20825	75RB#0	18.85	PASS
Band7	15MHz	QPSK	21100	1RB#0	20.10	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.14	PASS
Band7	15MHz	QPSK	21100	1RB#38	19.98	PASS
Band7	15MHz	16QAM	21100	1RB#38	20.03	PASS
Band7	15MHz	QPSK	21100	1RB#74	19.99	PASS
Band7	15MHz	16QAM	21100	1RB#74	20.01	PASS
Band7	15MHz	QPSK	21100	38RB#0	19.59	PASS
Band7	15MHz	16QAM	21100	38RB#0	19.60	PASS
Band7	15MHz	QPSK	21100	38RB#18	19.59	PASS
Band7	15MHz	16QAM	21100	38RB#18	19.60	PASS
Band7	15MHz	QPSK	21100	38RB#37	19.59	PASS
Band7	15MHz	16QAM	21100	38RB#37	19.59	PASS
Band7	15MHz	QPSK	21100	75RB#0	19.59	PASS
Band7	15MHz	16QAM	21100	75RB#0	18.75	PASS
Band7	15MHz	QPSK	21375	1RB#0	20.30	PASS
Band7	15MHz	16QAM	21375	1RB#0	20.81	PASS
Band7	15MHz	QPSK	21375	1RB#38	20.34	PASS
Band7	15MHz	16QAM	21375	1RB#38	20.82	PASS
Band7	15MHz	QPSK	21375	1RB#74	20.45	PASS
Band7	15MHz	16QAM	21375	1RB#74	20.82	PASS
Band7	15MHz	QPSK	21375	38RB#0	19.68	PASS
Band7	15MHz	16QAM	21375	38RB#0	19.61	PASS

Band7	15MHz	QPSK	21375	38RB#18	19.61	PASS
Band7	15MHz	16QAM	21375	38RB#18	19.62	PASS
Band7	15MHz	QPSK	21375	38RB#37	19.61	PASS
Band7	15MHz	16QAM	21375	38RB#37	19.62	PASS
Band7	15MHz	QPSK	21375	75RB#0	19.62	PASS
Band7	15MHz	16QAM	21375	75RB#0	18.78	PASS
Band7	20MHz	QPSK	20850	1RB#0	20.63	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.05	PASS
Band7	20MHz	QPSK	20850	1RB#49	20.60	PASS
Band7	20MHz	16QAM	20850	1RB#49	19.93	PASS
Band7	20MHz	QPSK	20850	1RB#99	20.53	PASS
Band7	20MHz	16QAM	20850	1RB#99	19.92	PASS
Band7	20MHz	QPSK	20850	50RB#0	19.77	PASS
Band7	20MHz	16QAM	20850	50RB#0	19.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	19.80	PASS
Band7	20MHz	16QAM	20850	50RB#25	19.01	PASS
Band7	20MHz	QPSK	20850	50RB#50	19.75	PASS
Band7	20MHz	16QAM	20850	50RB#50	18.92	PASS
Band7	20MHz	QPSK	20850	100RB#0	19.76	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.84	PASS
Band7	20MHz	QPSK	21100	1RB#0	20.33	PASS
Band7	20MHz	16QAM	21100	1RB#0	20.85	PASS
Band7	20MHz	QPSK	21100	1RB#49	20.41	PASS
Band7	20MHz	16QAM	21100	1RB#49	20.64	PASS
Band7	20MHz	QPSK	21100	1RB#99	20.38	PASS
Band7	20MHz	16QAM	21100	1RB#99	20.66	PASS
Band7	20MHz	QPSK	21100	50RB#0	19.70	PASS
Band7	20MHz	16QAM	21100	50RB#0	18.86	PASS
Band7	20MHz	QPSK	21100	50RB#25	19.68	PASS
Band7	20MHz	16QAM	21100	50RB#25	18.87	PASS
Band7	20MHz	QPSK	21100	50RB#50	19.53	PASS
Band7	20MHz	16QAM	21100	50RB#50	18.71	PASS
Band7	20MHz	QPSK	21100	100RB#0	19.59	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.87	PASS
Band7	20MHz	QPSK	21350	1RB#0	20.45	PASS
Band7	20MHz	16QAM	21350	1RB#0	20.06	PASS
Band7	20MHz	QPSK	21350	1RB#49	20.45	PASS
Band7	20MHz	16QAM	21350	1RB#49	20.07	PASS
Band7	20MHz	QPSK	21350	1RB#99	20.46	PASS
Band7	20MHz	16QAM	21350	1RB#99	20.09	PASS
Band7	20MHz	QPSK	21350	50RB#0	19.61	PASS
Band7	20MHz	16QAM	21350	50RB#0	18.83	PASS

Band7	20MHz	QPSK	21350	50RB#25	19.63	PASS
Band7	20MHz	16QAM	21350	50RB#25	18.84	PASS
Band7	20MHz	QPSK	21350	50RB#50	19.65	PASS
Band7	20MHz	16QAM	21350	50RB#50	18.83	PASS
Band7	20MHz	QPSK	21350	100RB#0	19.66	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.65	PASS

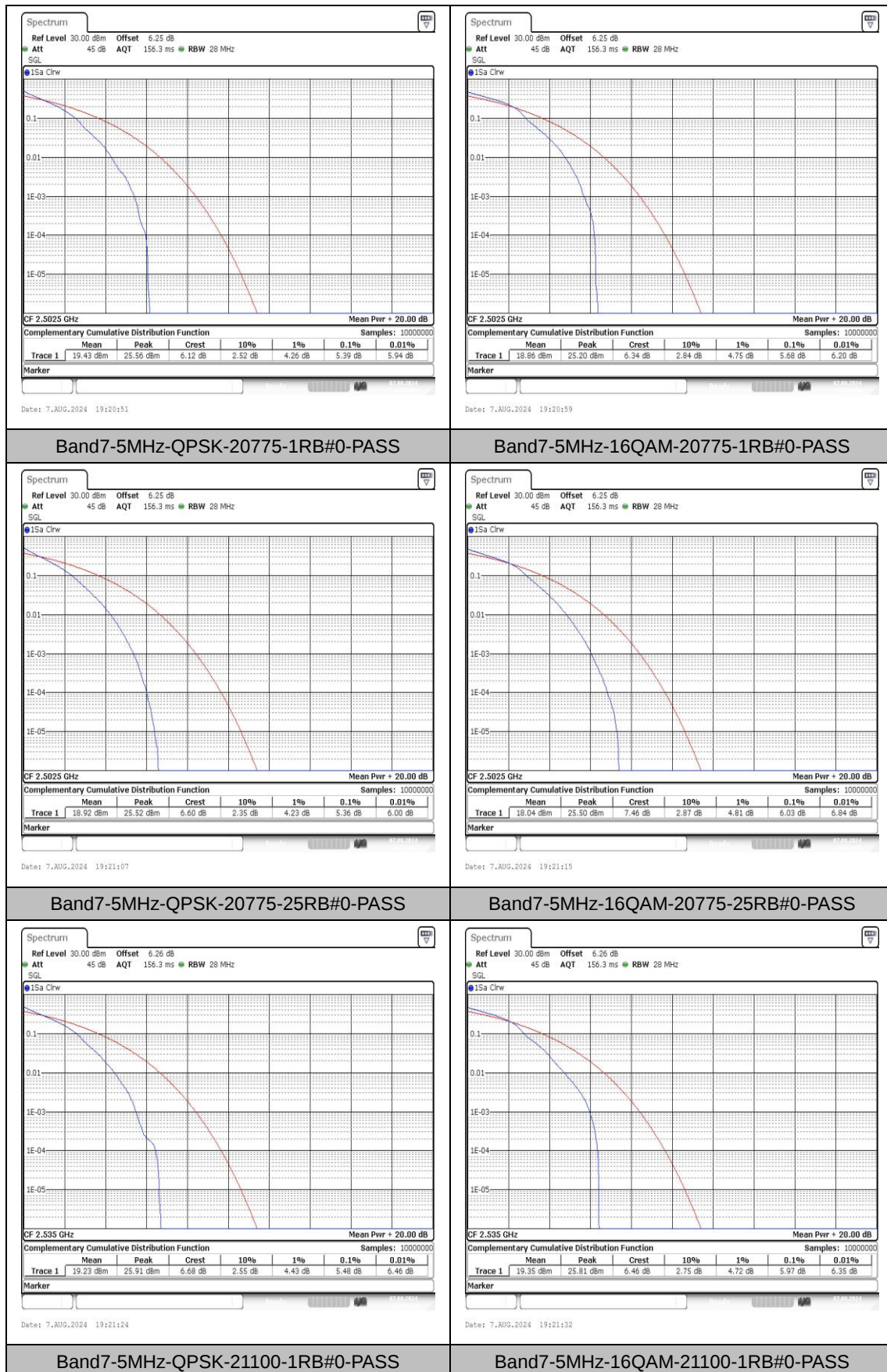
Appendix B: Peak-to-Average Ratio(CCDF)

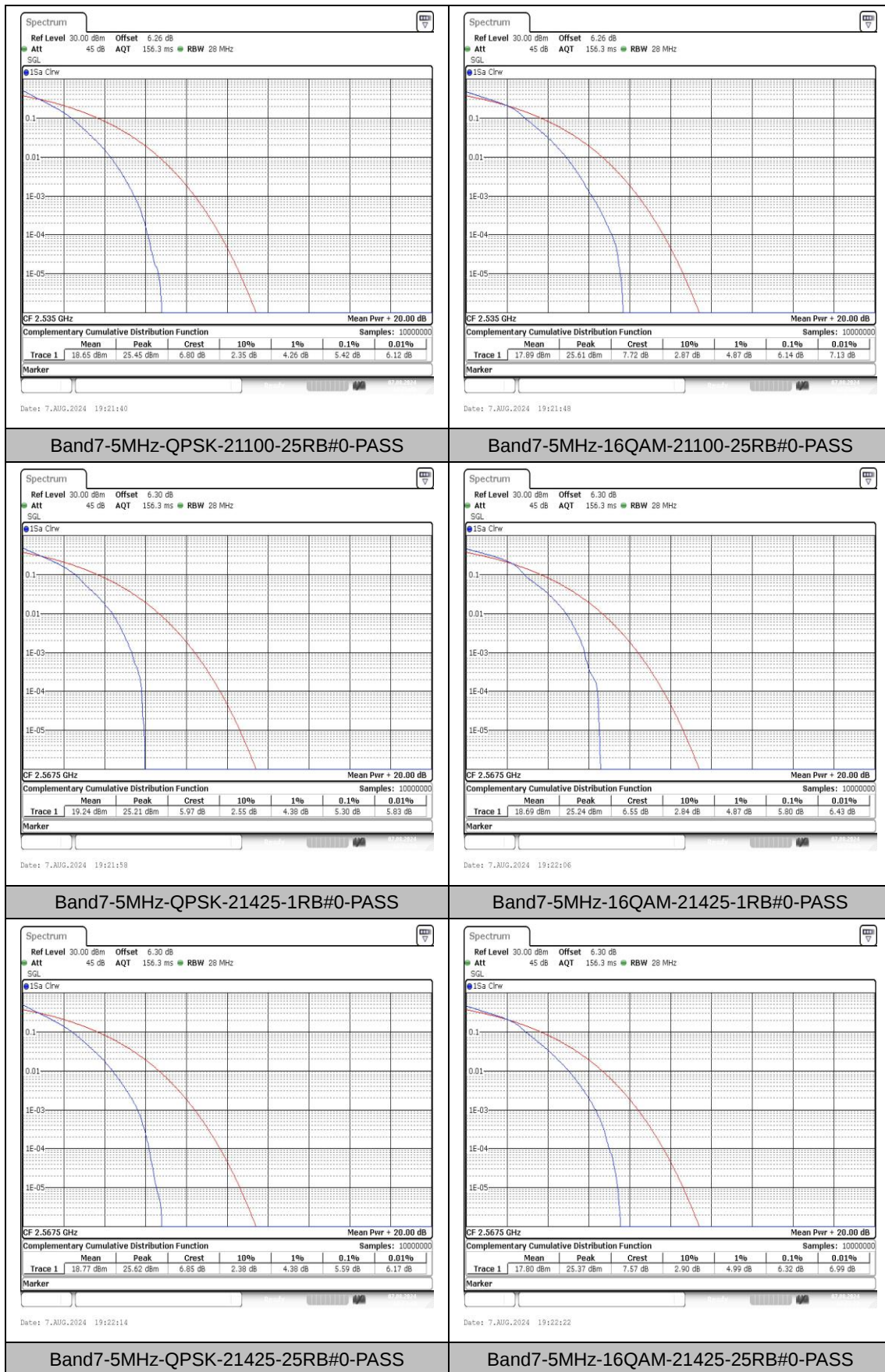
Test Result

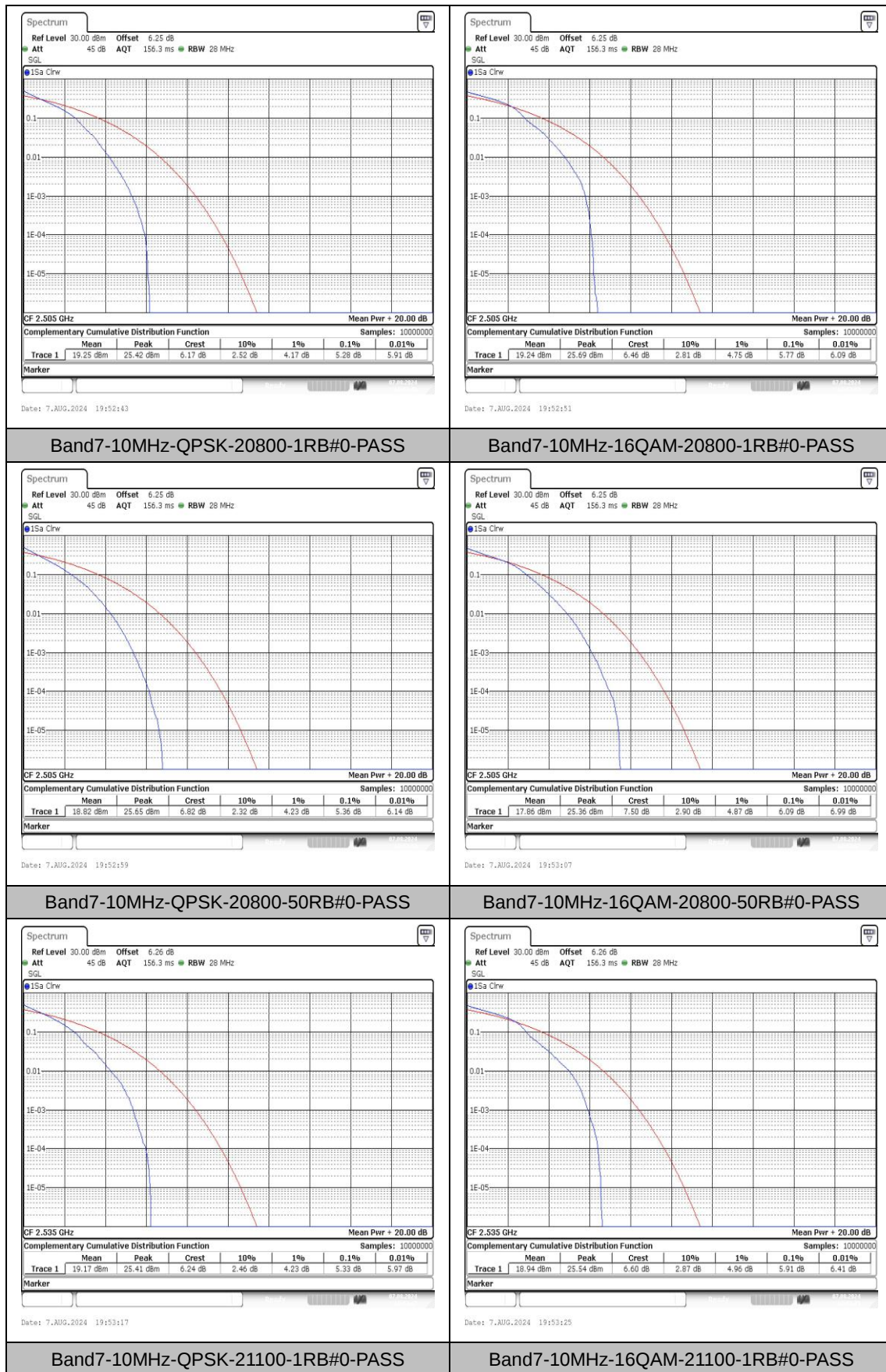
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	5.39	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	5.68	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.36	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.03	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	5.48	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	5.97	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.42	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.14	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	5.30	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.80	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.59	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.32	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	5.28	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	5.77	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.36	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.09	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	5.33	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	5.91	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.45	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.20	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	5.42	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	5.74	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.57	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.35	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	5.28	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	5.77	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.65	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.17	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	5.42	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	6.12	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.71	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.20	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	5.36	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	5.97	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.80	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.35	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	5.07	13	PASS

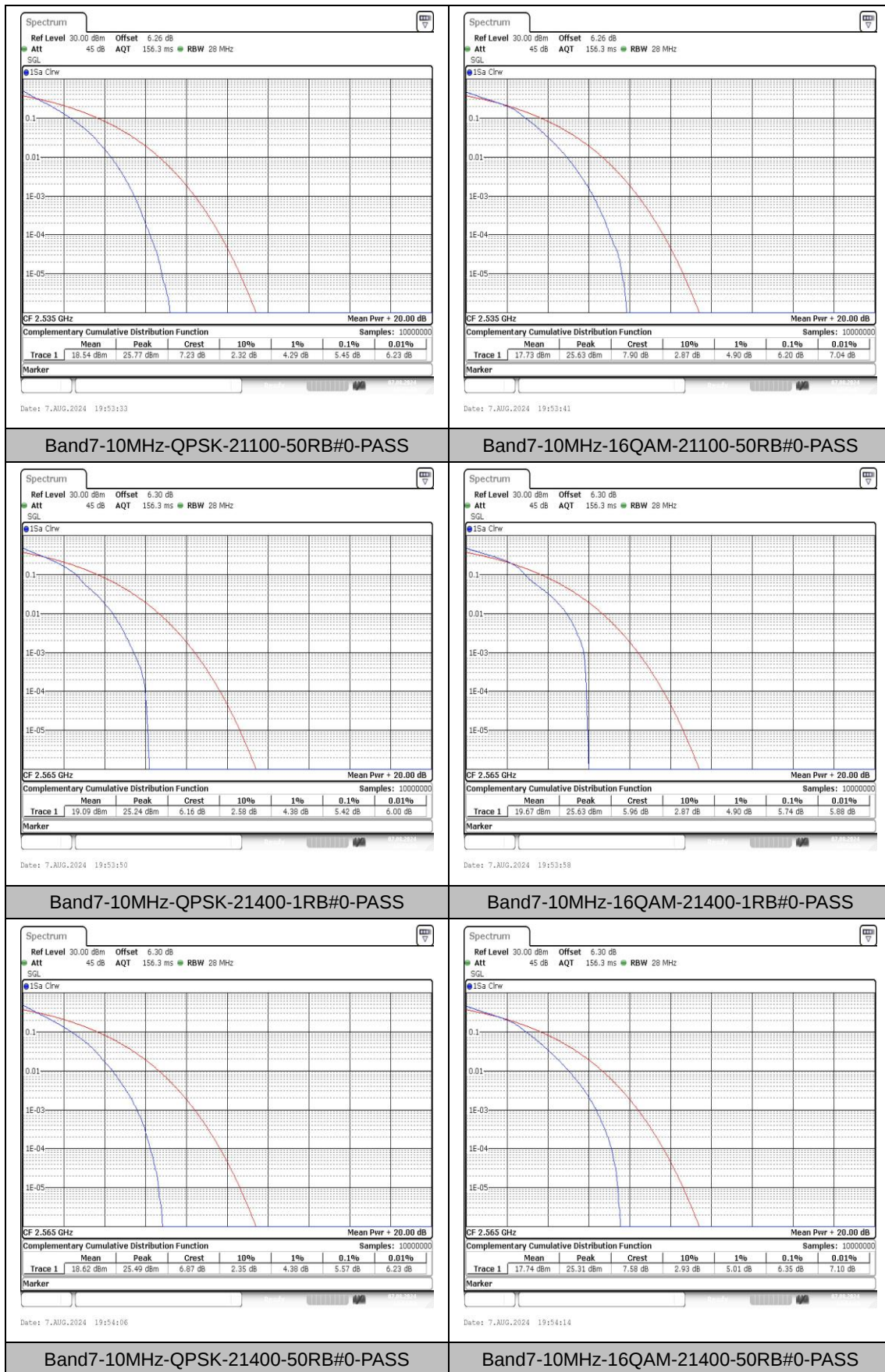
Band7	20MHz	16QAM	20850	1RB#0	5.54	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.33	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.12	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	5.42	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	6.00	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.45	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.14	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	5.39	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	6.26	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.48	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.26	13	PASS

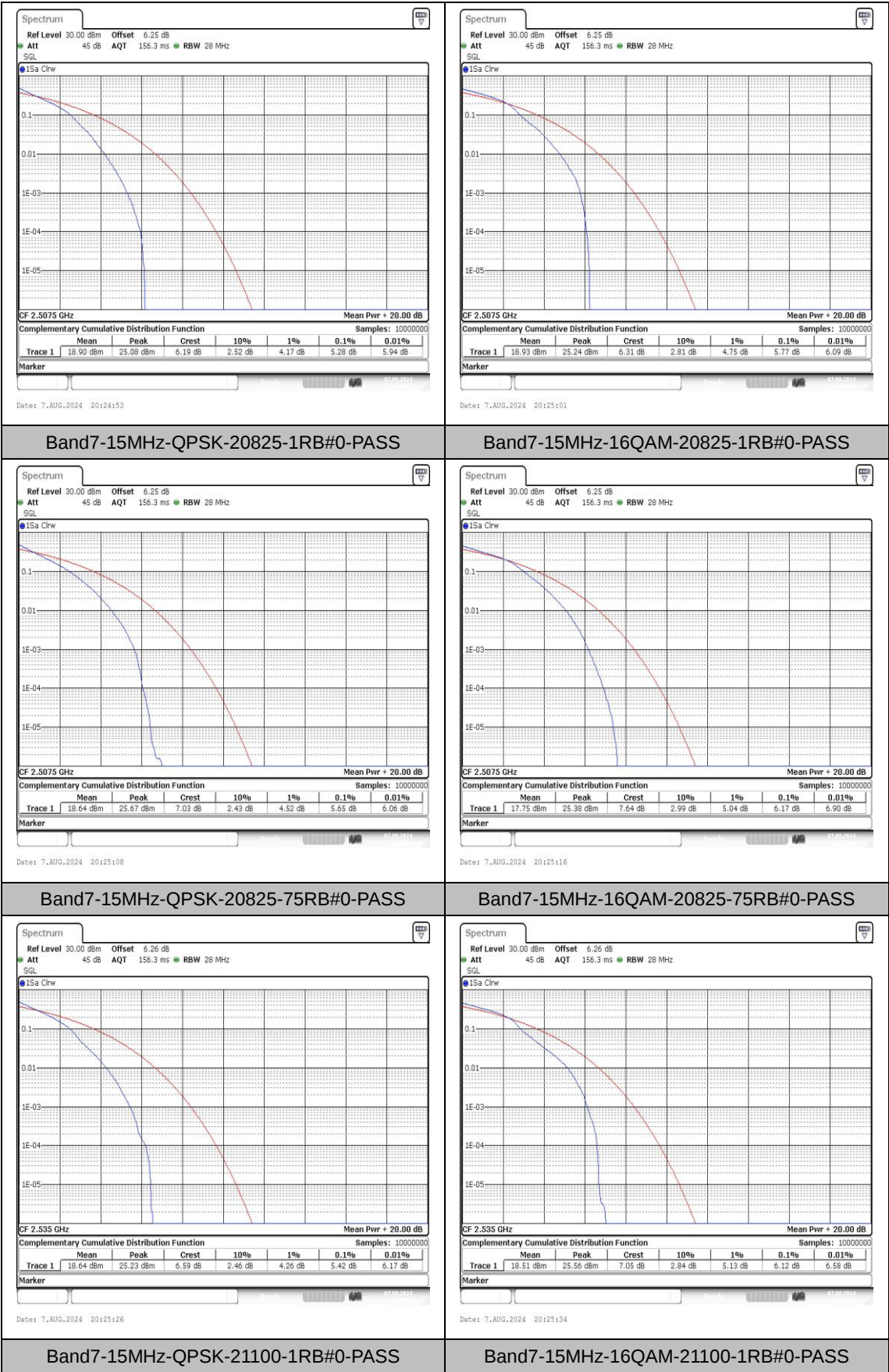
Test Graphs

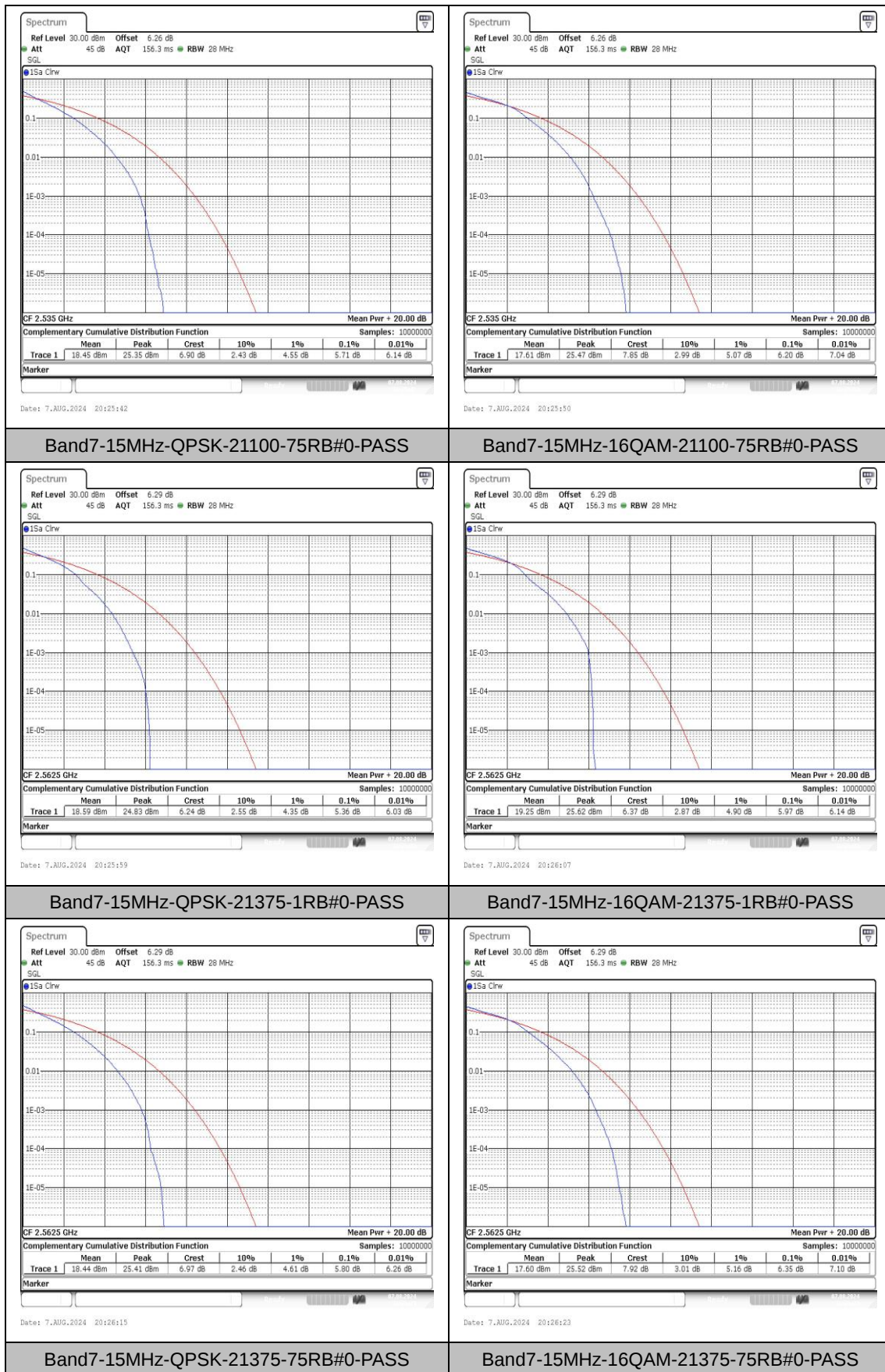


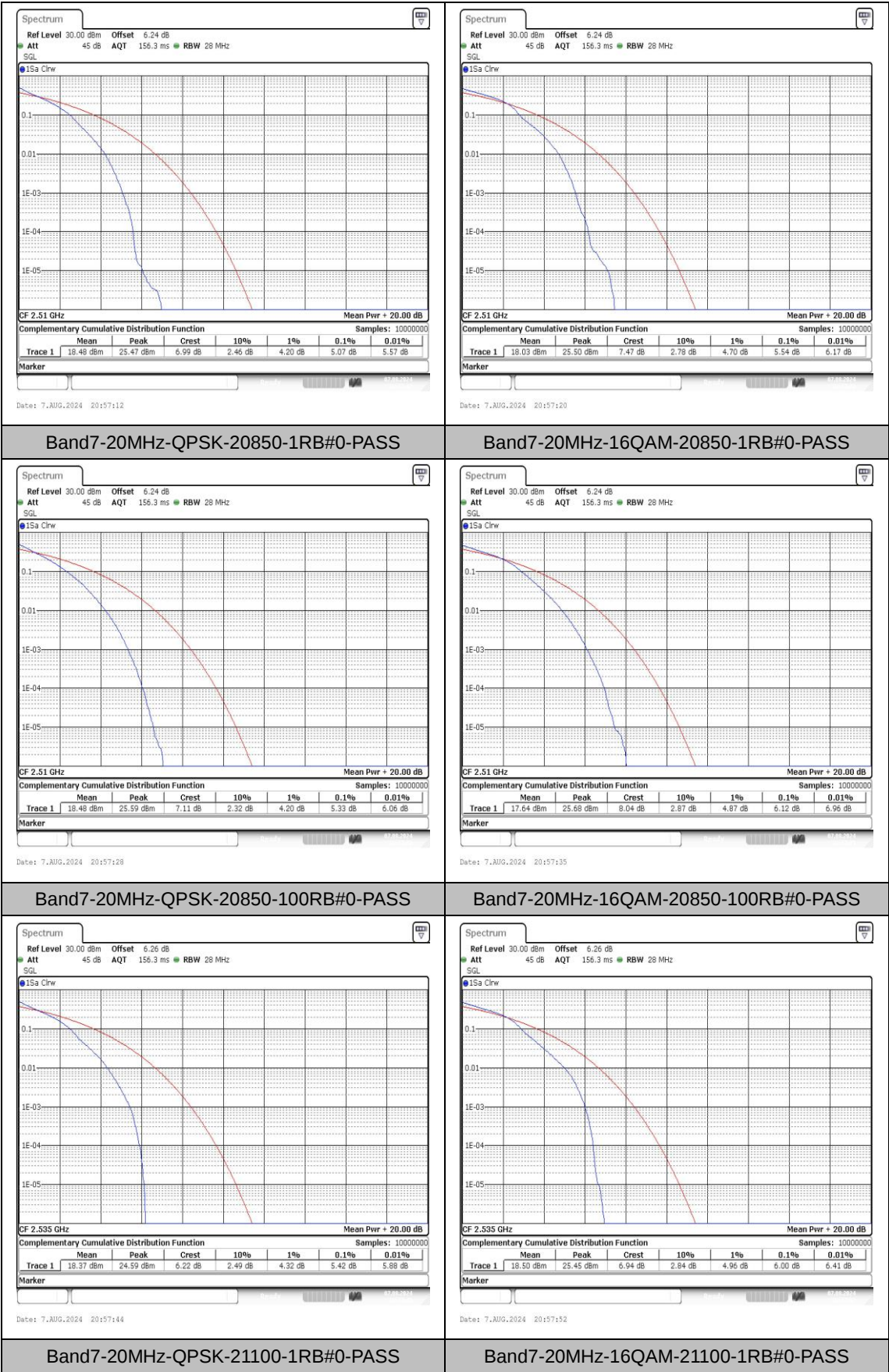


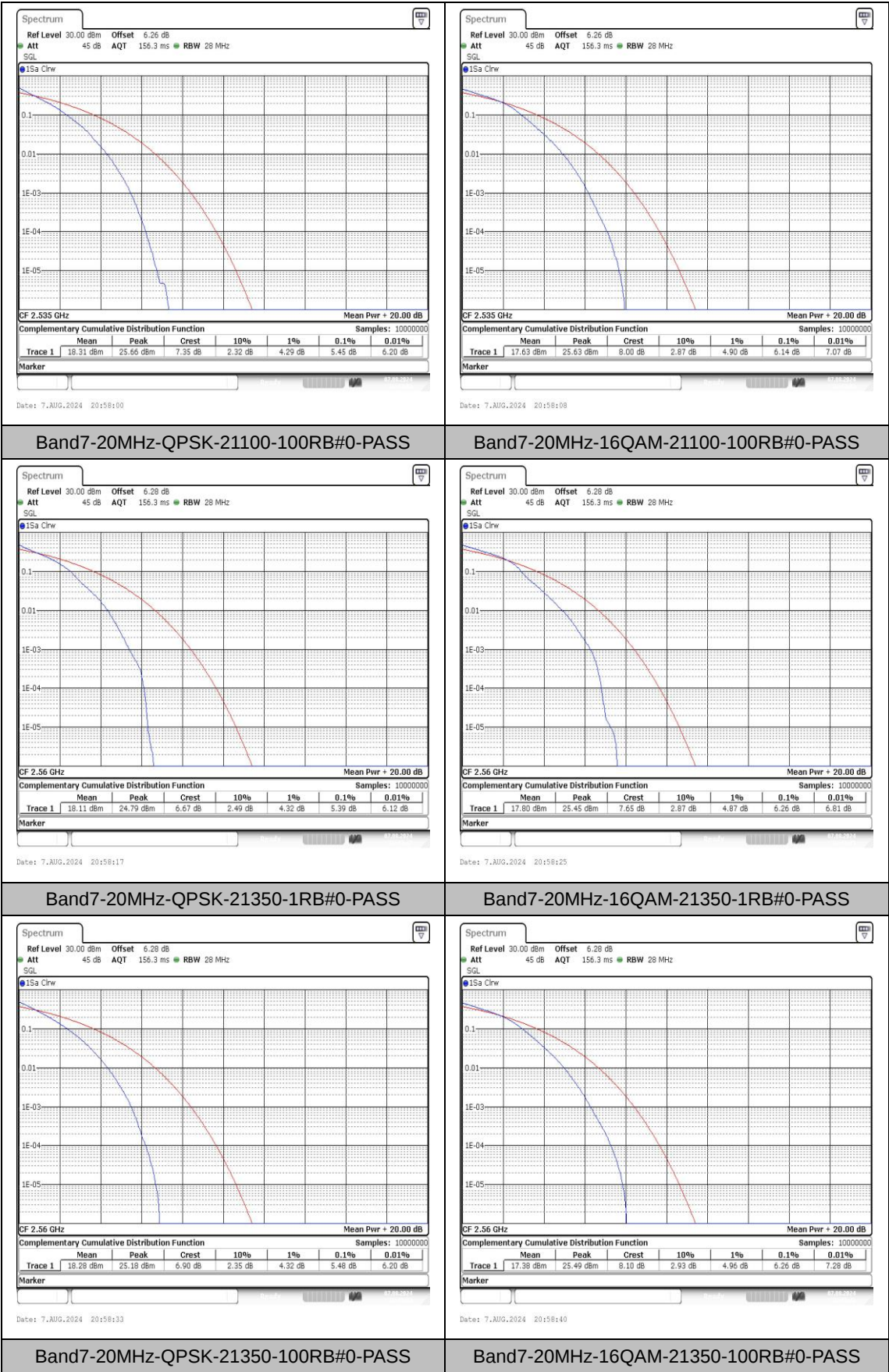










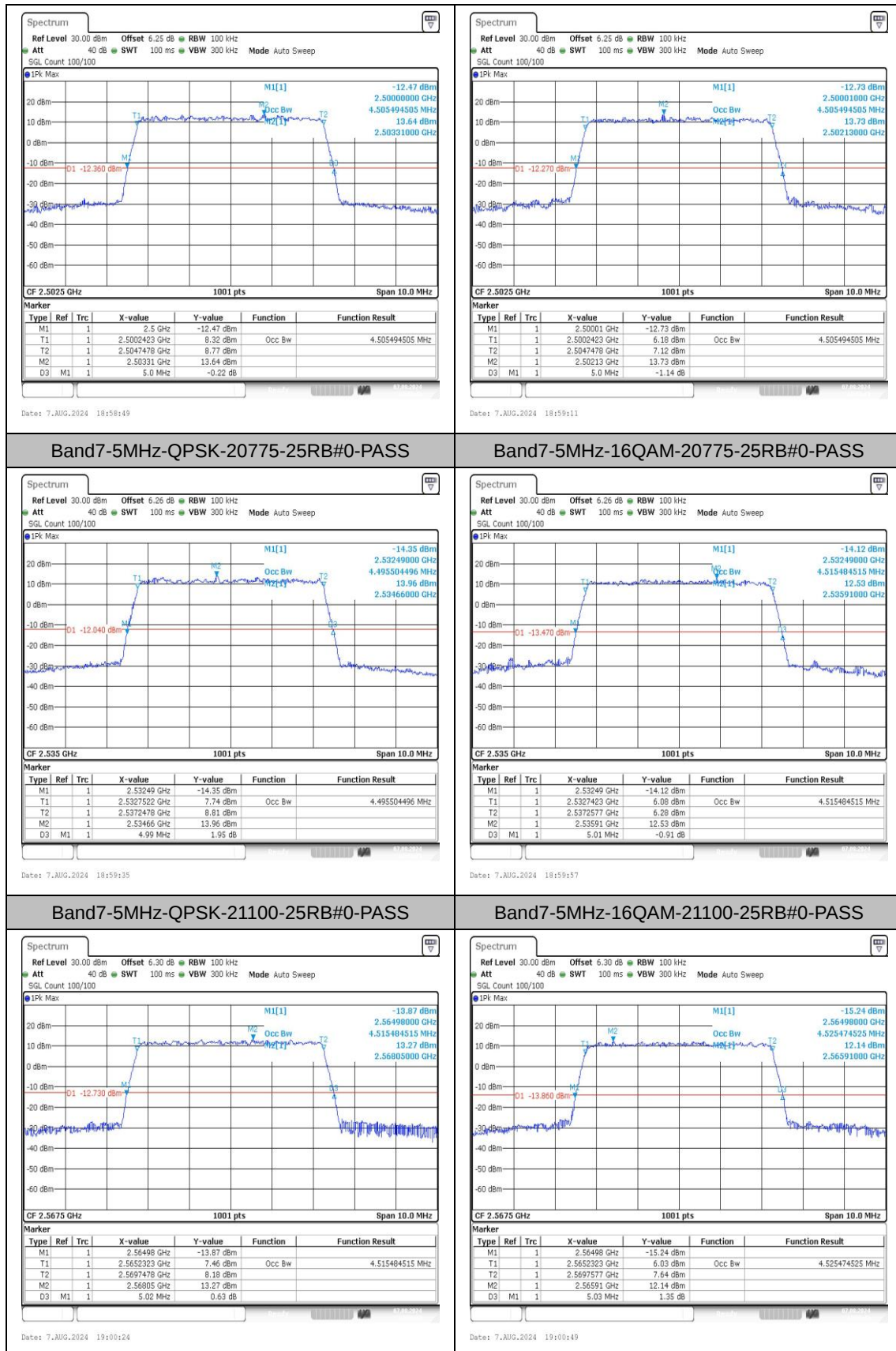


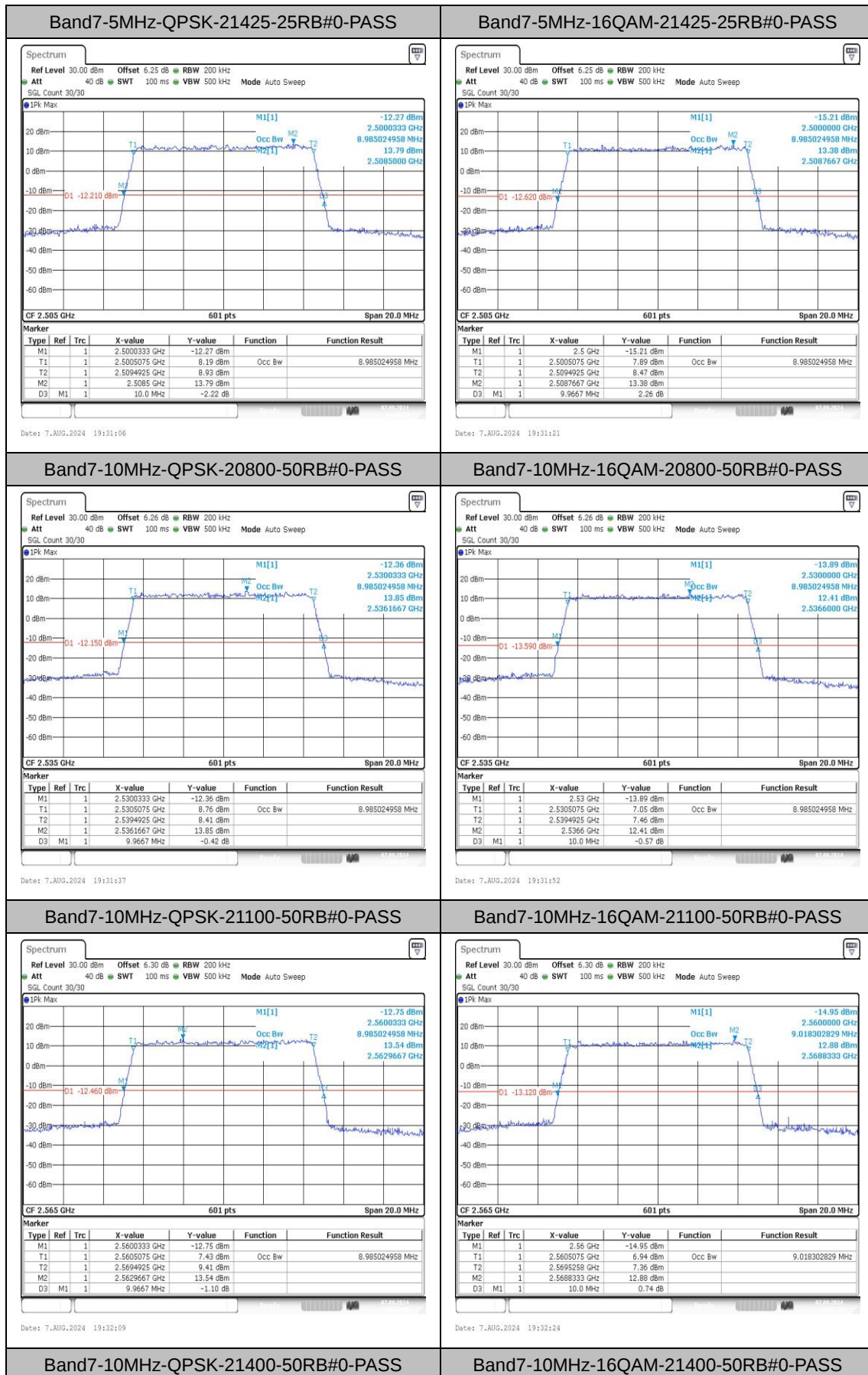
Appendix C: 26dB Bandwidth and Occupied Bandwidth

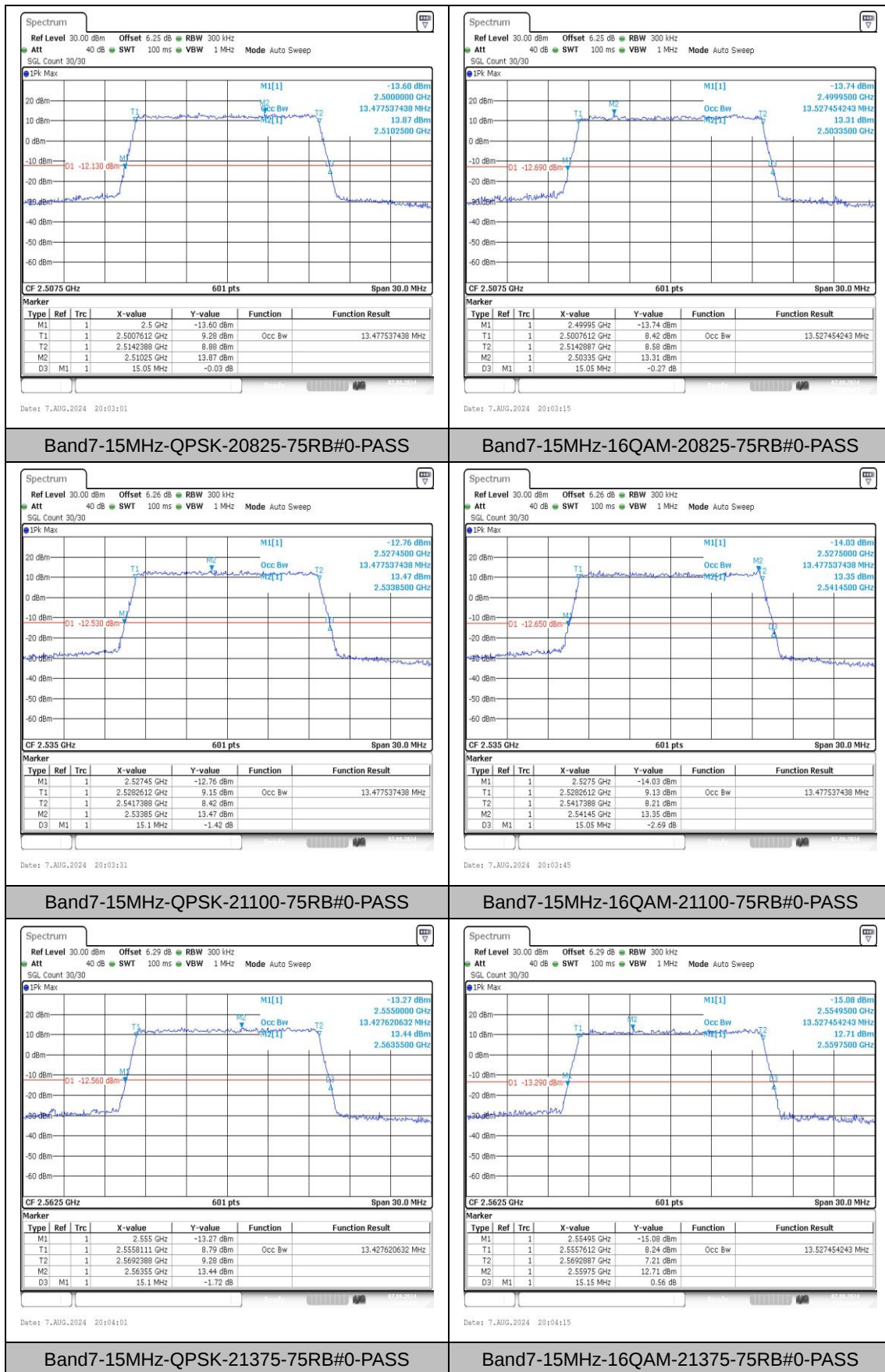
Test Result

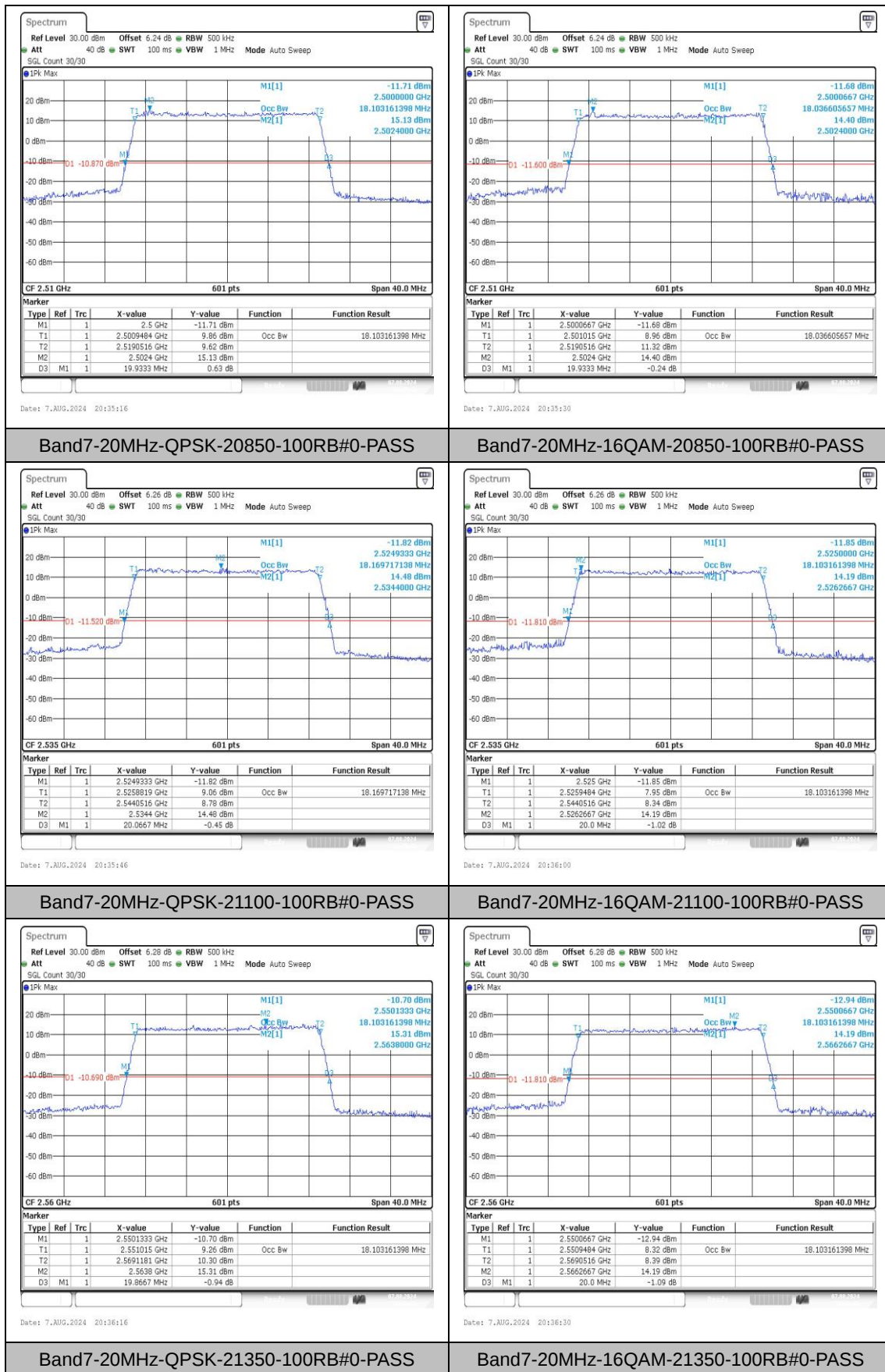
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.505	5.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.505	5.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.496	4.99	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.515	5.01	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.515	5.02	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.525	5.03	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.985	10.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.985	9.97	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.985	9.97	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.985	10.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.985	9.97	PASS
Band7	10MHz	16QAM	21400	50RB#0	9.018	10.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.478	15.05	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.527	15.05	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.478	15.10	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.478	15.05	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.428	15.10	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.527	15.15	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.103	19.93	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.037	19.93	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.17	20.07	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.103	20.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.103	19.87	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.103	20.00	PASS

Test Graphs









Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-20.18	PASS
Band7	5MHz	16QAM	20775	1RB#0	-20.48	PASS
Band7	5MHz	QPSK	20775	1RB#24	-43.76	PASS
Band7	5MHz	16QAM	20775	1RB#24	-43.31	PASS
Band7	5MHz	QPSK	20775	25RB#0	-42.95	PASS
Band7	5MHz	16QAM	20775	25RB#0	-42.76	PASS
Band7	5MHz	QPSK	21425	1RB#0	-41.79	PASS
Band7	5MHz	16QAM	21425	1RB#0	-43.48	PASS
Band7	5MHz	QPSK	21425	1RB#24	-20.28	PASS
Band7	5MHz	16QAM	21425	1RB#24	-20.26	PASS
Band7	5MHz	QPSK	21425	25RB#0	-41.46	PASS
Band7	5MHz	16QAM	21425	25RB#0	-40.40	PASS
Band7	10MHz	QPSK	20800	1RB#0	-23.09	PASS
Band7	10MHz	16QAM	20800	1RB#0	-23.27	PASS
Band7	10MHz	QPSK	20800	1RB#49	-43.89	PASS
Band7	10MHz	16QAM	20800	1RB#49	-43.90	PASS
Band7	10MHz	QPSK	20800	50RB#0	-43.13	PASS
Band7	10MHz	16QAM	20800	50RB#0	-42.16	PASS
Band7	10MHz	QPSK	21400	1RB#0	-43.60	PASS
Band7	10MHz	16QAM	21400	1RB#0	-43.57	PASS
Band7	10MHz	QPSK	21400	1RB#49	-22.52	PASS
Band7	10MHz	16QAM	21400	1RB#49	-23.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	-42.76	PASS
Band7	10MHz	16QAM	21400	50RB#0	-41.77	PASS
Band7	15MHz	QPSK	20825	1RB#0	-22.01	PASS
Band7	15MHz	16QAM	20825	1RB#0	-21.46	PASS
Band7	15MHz	QPSK	20825	1RB#74	-43.88	PASS
Band7	15MHz	16QAM	20825	1RB#74	-43.82	PASS
Band7	15MHz	QPSK	20825	75RB#0	-43.61	PASS
Band7	15MHz	16QAM	20825	75RB#0	-43.05	PASS
Band7	15MHz	QPSK	21375	1RB#0	-43.61	PASS
Band7	15MHz	16QAM	21375	1RB#0	-43.61	PASS
Band7	15MHz	QPSK	21375	1RB#74	-22.82	PASS
Band7	15MHz	16QAM	21375	1RB#74	-22.57	PASS
Band7	15MHz	QPSK	21375	75RB#0	-43.28	PASS

Band7	15MHz	16QAM	21375	75RB#0	-42.90	PASS
Band7	20MHz	QPSK	20850	1RB#0	-23.49	PASS
Band7	20MHz	16QAM	20850	1RB#0	-23.42	PASS
Band7	20MHz	QPSK	20850	1RB#99	-43.94	PASS
Band7	20MHz	16QAM	20850	1RB#99	-43.89	PASS
Band7	20MHz	QPSK	20850	100RB#0	-43.80	PASS
Band7	20MHz	16QAM	20850	100RB#0	-43.58	PASS
Band7	20MHz	QPSK	21350	1RB#0	-43.64	PASS
Band7	20MHz	16QAM	21350	1RB#0	-43.65	PASS
Band7	20MHz	QPSK	21350	1RB#99	-23.39	PASS
Band7	20MHz	16QAM	21350	1RB#99	-23.10	PASS
Band7	20MHz	QPSK	21350	100RB#0	-43.46	PASS
Band7	20MHz	16QAM	21350	100RB#0	-43.35	PASS

Test Graphs

