

Appendix for LTE BAND 38

Product Name: HTC Smartphone
Model No: Wildfire E7

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	21.98	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.24	PASS
Band38	5MHz	QPSK	37775	1RB#24	21.89	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.09	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.11	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.01	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.08	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.30	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.63	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.24	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.08	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.11	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.09	PASS
Band38	5MHz	QPSK	38000	1RB#0	21.87	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.12	PASS
Band38	5MHz	QPSK	38000	1RB#24	21.82	PASS
Band38	5MHz	QPSK	38000	12RB#0	20.98	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.05	PASS
Band38	5MHz	QPSK	38000	12RB#13	20.93	PASS
Band38	5MHz	QPSK	38000	25RB#0	20.96	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.01	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.27	PASS
Band38	5MHz	16QAM	38000	1RB#24	20.96	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.05	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.04	PASS
Band38	5MHz	16QAM	38000	12RB#13	19.96	PASS
Band38	5MHz	16QAM	38000	25RB#0	19.99	PASS
Band38	5MHz	QPSK	38225	1RB#0	21.84	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.15	PASS
Band38	5MHz	QPSK	38225	1RB#24	21.80	PASS
Band38	5MHz	QPSK	38225	12RB#0	20.92	PASS
Band38	5MHz	QPSK	38225	12RB#6	20.94	PASS
Band38	5MHz	QPSK	38225	12RB#13	20.80	PASS
Band38	5MHz	QPSK	38225	25RB#0	20.84	PASS
Band38	5MHz	16QAM	38225	1RB#0	20.86	PASS

Band38	5MHz	16QAM	38225	1RB#12	21.09	PASS
Band38	5MHz	16QAM	38225	1RB#24	20.78	PASS
Band38	5MHz	16QAM	38225	12RB#0	19.84	PASS
Band38	5MHz	16QAM	38225	12RB#6	19.84	PASS
Band38	5MHz	16QAM	38225	12RB#13	19.76	PASS
Band38	5MHz	16QAM	38225	25RB#0	19.84	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.01	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.17	PASS
Band38	10MHz	QPSK	37800	1RB#49	21.91	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.13	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.07	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.04	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.09	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.24	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.35	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.16	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.21	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.11	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.14	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.11	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.01	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.14	PASS
Band38	10MHz	QPSK	38000	1RB#49	21.93	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.07	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.04	PASS
Band38	10MHz	QPSK	38000	25RB#25	20.96	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.01	PASS
Band38	10MHz	16QAM	38000	1RB#0	20.72	PASS
Band38	10MHz	16QAM	38000	1RB#24	20.78	PASS
Band38	10MHz	16QAM	38000	1RB#49	20.58	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.09	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.06	PASS
Band38	10MHz	16QAM	38000	25RB#25	19.99	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.04	PASS
Band38	10MHz	QPSK	38200	1RB#0	21.96	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.04	PASS
Band38	10MHz	QPSK	38200	1RB#49	21.81	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.03	PASS
Band38	10MHz	QPSK	38200	25RB#12	20.97	PASS
Band38	10MHz	QPSK	38200	25RB#25	20.84	PASS
Band38	10MHz	QPSK	38200	50RB#0	20.96	PASS
Band38	10MHz	16QAM	38200	1RB#0	20.88	PASS

Band38	10MHz	16QAM	38200	1RB#24	20.92	PASS
Band38	10MHz	16QAM	38200	1RB#49	20.74	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.04	PASS
Band38	10MHz	16QAM	38200	25RB#12	19.99	PASS
Band38	10MHz	16QAM	38200	25RB#25	19.86	PASS
Band38	10MHz	16QAM	38200	50RB#0	19.94	PASS
Band38	15MHz	QPSK	37825	1RB#0	21.94	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.04	PASS
Band38	15MHz	QPSK	37825	1RB#74	21.76	PASS
Band38	15MHz	QPSK	37825	38RB#0	21.01	PASS
Band38	15MHz	QPSK	37825	38RB#18	21.07	PASS
Band38	15MHz	QPSK	37825	38RB#37	21.01	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.02	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.16	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.17	PASS
Band38	15MHz	16QAM	37825	1RB#74	20.97	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.06	PASS
Band38	15MHz	16QAM	37825	38RB#18	20.10	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.04	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.08	PASS
Band38	15MHz	QPSK	38000	1RB#0	21.97	PASS
Band38	15MHz	QPSK	38000	1RB#38	21.97	PASS
Band38	15MHz	QPSK	38000	1RB#74	21.78	PASS
Band38	15MHz	QPSK	38000	38RB#0	20.98	PASS
Band38	15MHz	QPSK	38000	38RB#18	21.02	PASS
Band38	15MHz	QPSK	38000	38RB#37	21.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	20.98	PASS
Band38	15MHz	16QAM	38000	1RB#0	20.78	PASS
Band38	15MHz	16QAM	38000	1RB#38	20.84	PASS
Band38	15MHz	16QAM	38000	1RB#74	20.59	PASS
Band38	15MHz	16QAM	38000	38RB#0	20.97	PASS
Band38	15MHz	16QAM	38000	38RB#18	19.98	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.01	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	21.85	PASS
Band38	15MHz	QPSK	38175	1RB#38	21.88	PASS
Band38	15MHz	QPSK	38175	1RB#74	21.62	PASS
Band38	15MHz	QPSK	38175	38RB#0	20.95	PASS
Band38	15MHz	QPSK	38175	38RB#18	20.97	PASS
Band38	15MHz	QPSK	38175	38RB#37	20.93	PASS
Band38	15MHz	QPSK	38175	75RB#0	20.91	PASS
Band38	15MHz	16QAM	38175	1RB#0	20.75	PASS

Band38	15MHz	16QAM	38175	1RB#38	20.81	PASS
Band38	15MHz	16QAM	38175	1RB#74	20.55	PASS
Band38	15MHz	16QAM	38175	38RB#0	20.95	PASS
Band38	15MHz	16QAM	38175	38RB#18	19.99	PASS
Band38	15MHz	16QAM	38175	38RB#37	20.91	PASS
Band38	15MHz	16QAM	38175	75RB#0	19.94	PASS
Band38	20MHz	QPSK	37850	1RB#0	21.84	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.31	PASS
Band38	20MHz	QPSK	37850	1RB#99	21.68	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.08	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.07	PASS
Band38	20MHz	QPSK	37850	50RB#50	20.96	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.05	PASS
Band38	20MHz	16QAM	37850	1RB#0	20.89	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.25	PASS
Band38	20MHz	16QAM	37850	1RB#99	20.75	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.15	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.15	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.03	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.05	PASS
Band38	20MHz	QPSK	38000	1RB#0	21.75	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.16	PASS
Band38	20MHz	QPSK	38000	1RB#99	21.53	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.08	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	20.85	PASS
Band38	20MHz	QPSK	38000	100RB#0	20.99	PASS
Band38	20MHz	16QAM	38000	1RB#0	20.38	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.11	PASS
Band38	20MHz	16QAM	38000	1RB#99	20.14	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.12	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.09	PASS
Band38	20MHz	16QAM	38000	50RB#50	19.93	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	21.80	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.09	PASS
Band38	20MHz	QPSK	38150	1RB#99	21.53	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.01	PASS
Band38	20MHz	QPSK	38150	50RB#25	20.91	PASS
Band38	20MHz	QPSK	38150	50RB#50	20.74	PASS
Band38	20MHz	QPSK	38150	100RB#0	20.89	PASS
Band38	20MHz	16QAM	38150	1RB#0	20.52	PASS

Band38	20MHz	16QAM	38150	1RB#49	21.11	PASS
Band38	20MHz	16QAM	38150	1RB#99	20.22	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.06	PASS
Band38	20MHz	16QAM	38150	50RB#25	19.92	PASS
Band38	20MHz	16QAM	38150	50RB#50	19.72	PASS
Band38	20MHz	16QAM	38150	100RB#0	19.93	PASS

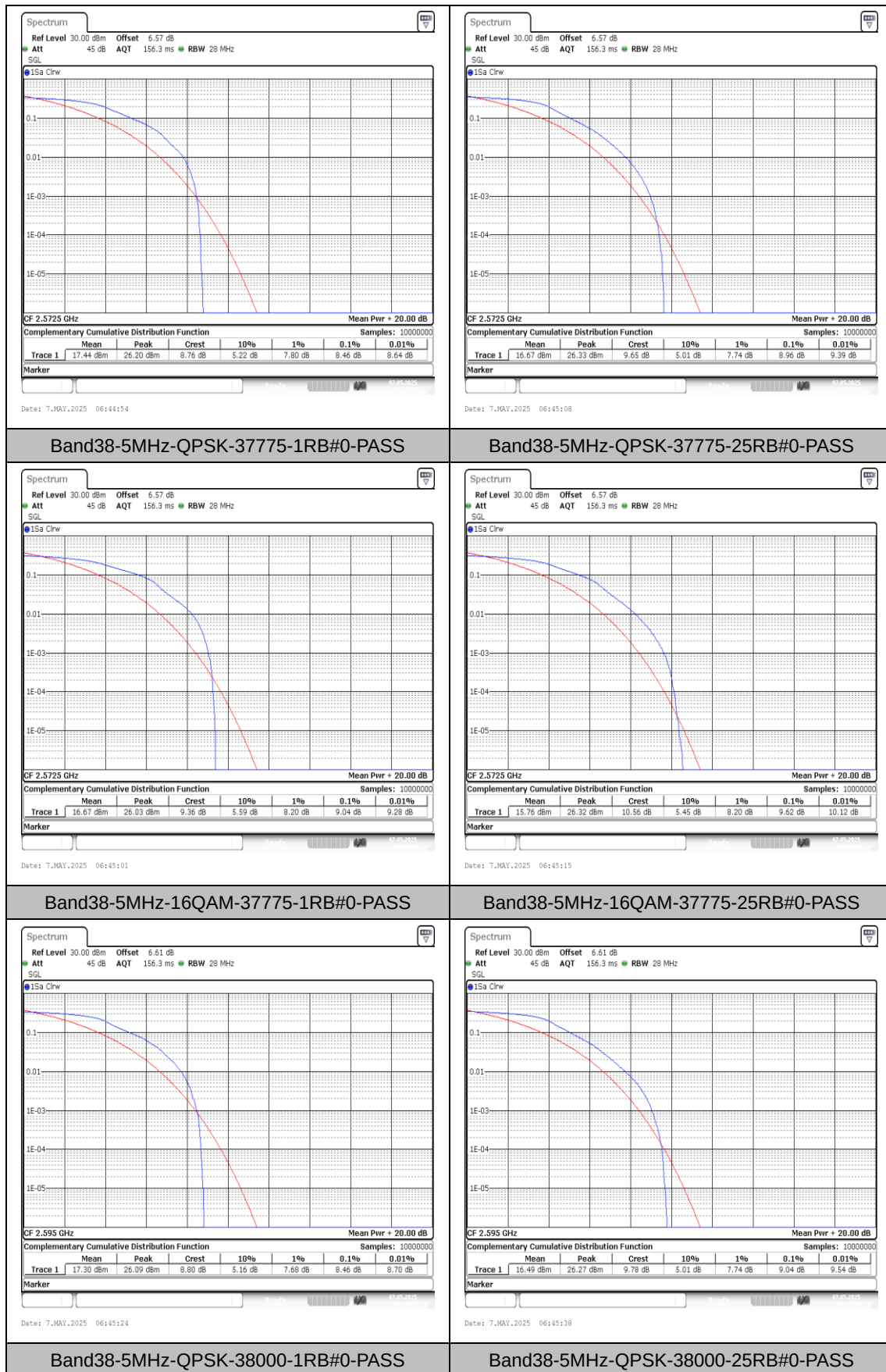
Appendix B: Peak-to-Average Ratio(CCDF)

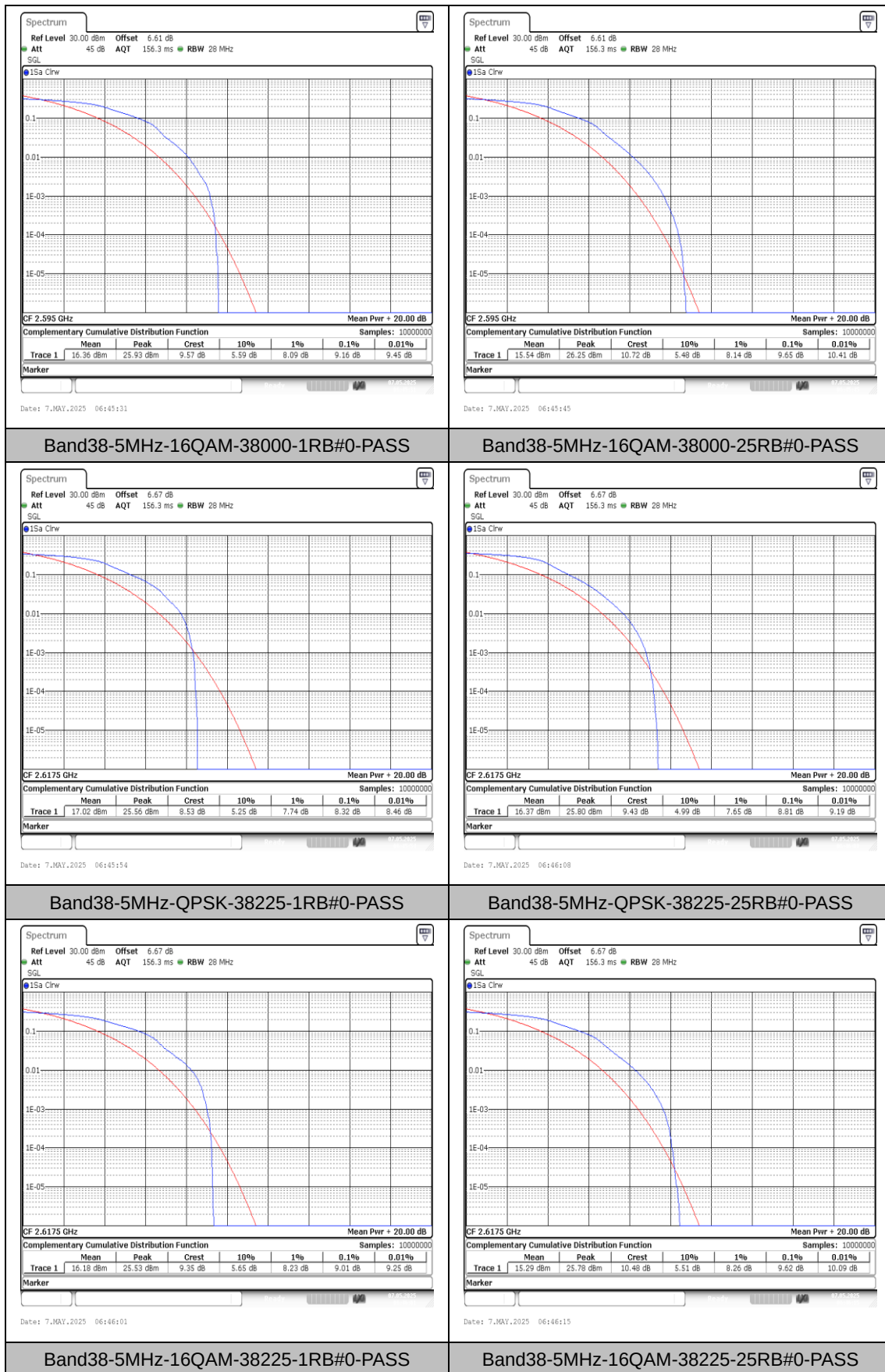
Test Result

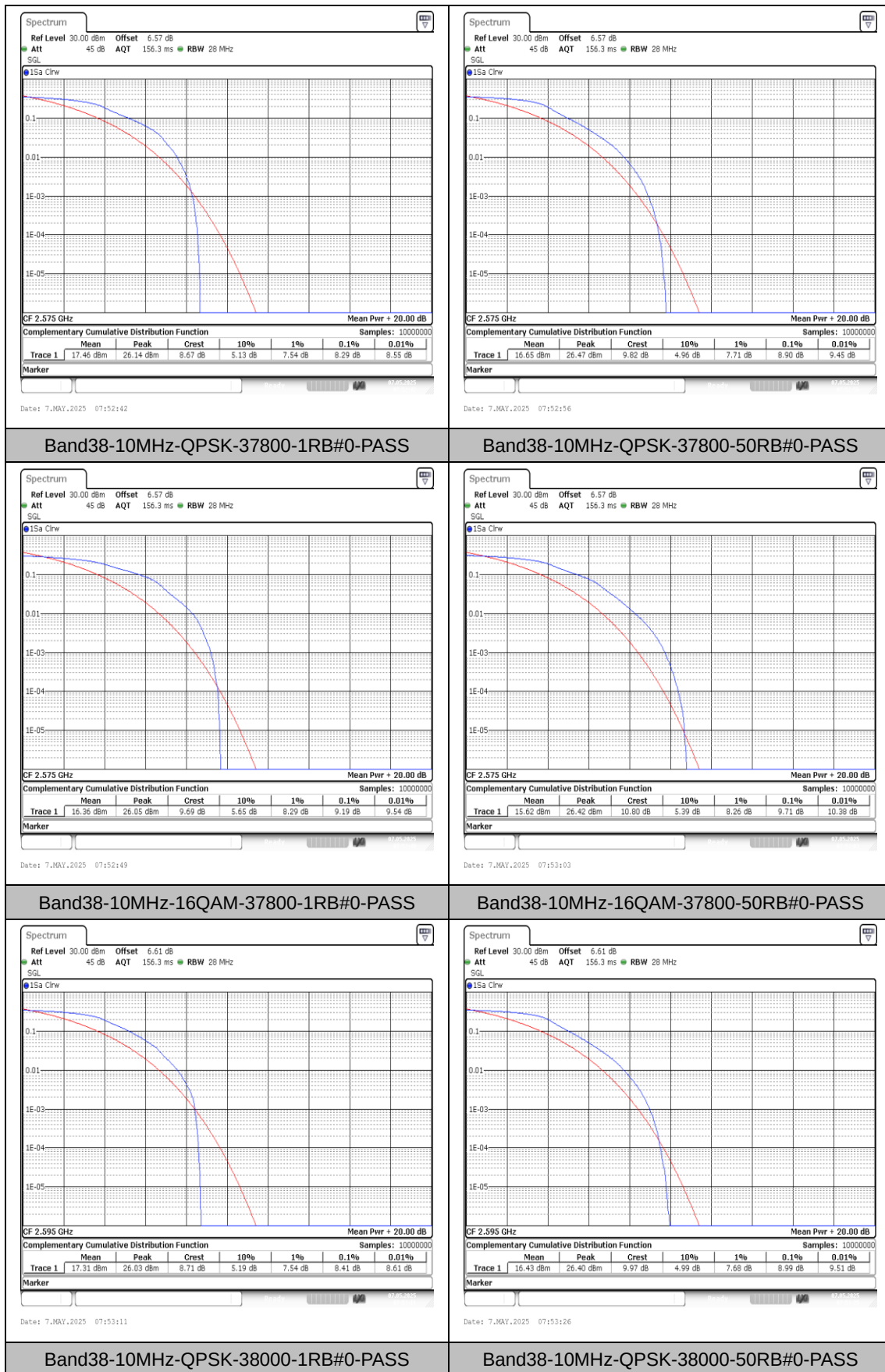
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	8.46	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	8.96	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	9.04	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.62	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	8.46	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	9.04	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	9.16	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.65	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.32	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	8.81	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	9.01	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.62	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	8.29	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.90	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	9.19	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.71	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	8.41	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.99	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	9.33	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.77	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	8.23	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.87	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	9.07	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.65	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	8.46	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	9.19	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	9.19	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	9.86	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	8.58	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	9.22	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	9.42	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	9.77	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	8.38	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	8.99	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	9.19	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	9.80	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	8.26	13	PASS

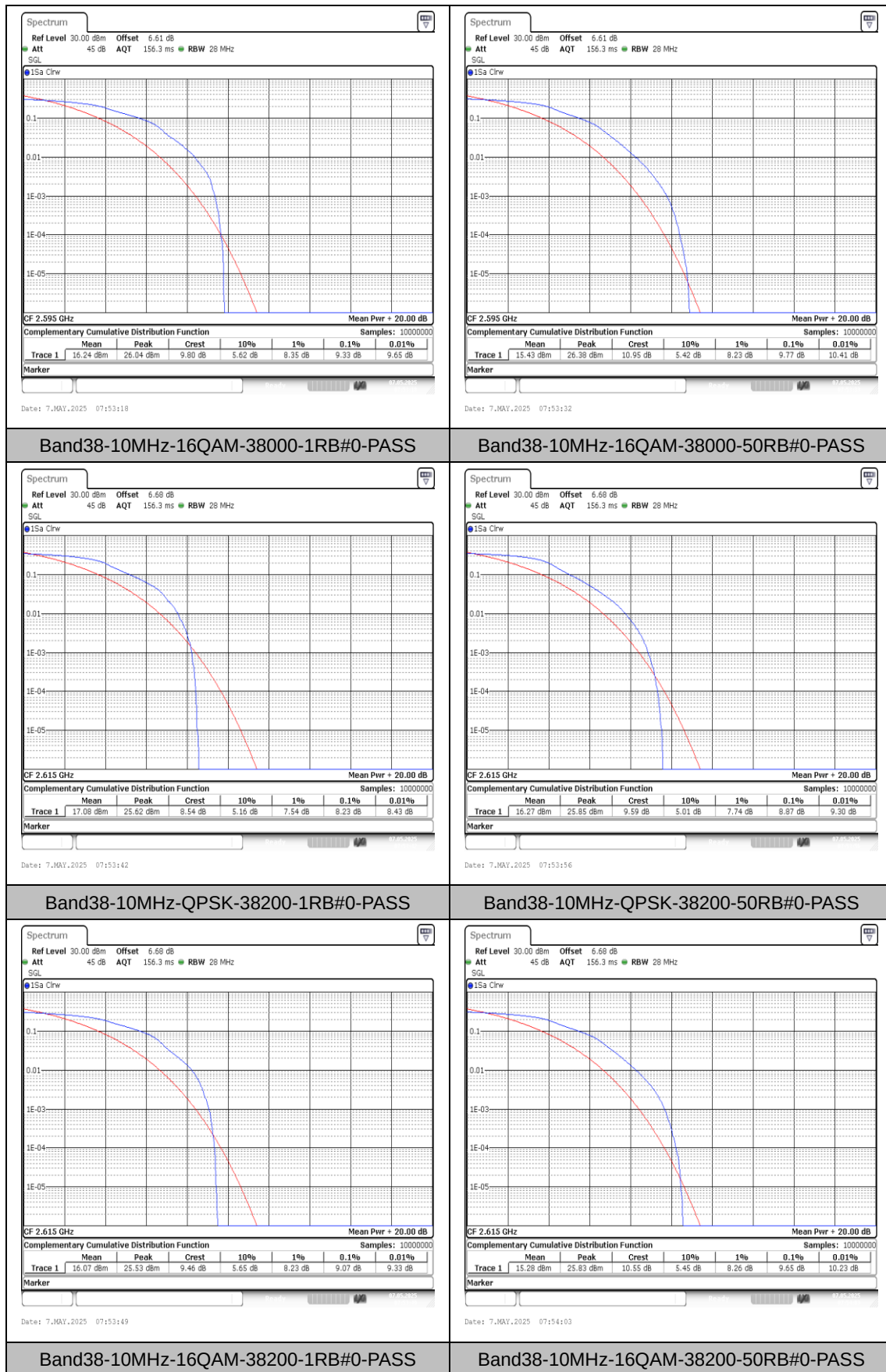
Band38	20MHz	QPSK	37850	100RB#0	8.87	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	9.07	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.68	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	8.55	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.96	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	9.45	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.65	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	8.23	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.87	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	9.01	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.57	13	PASS

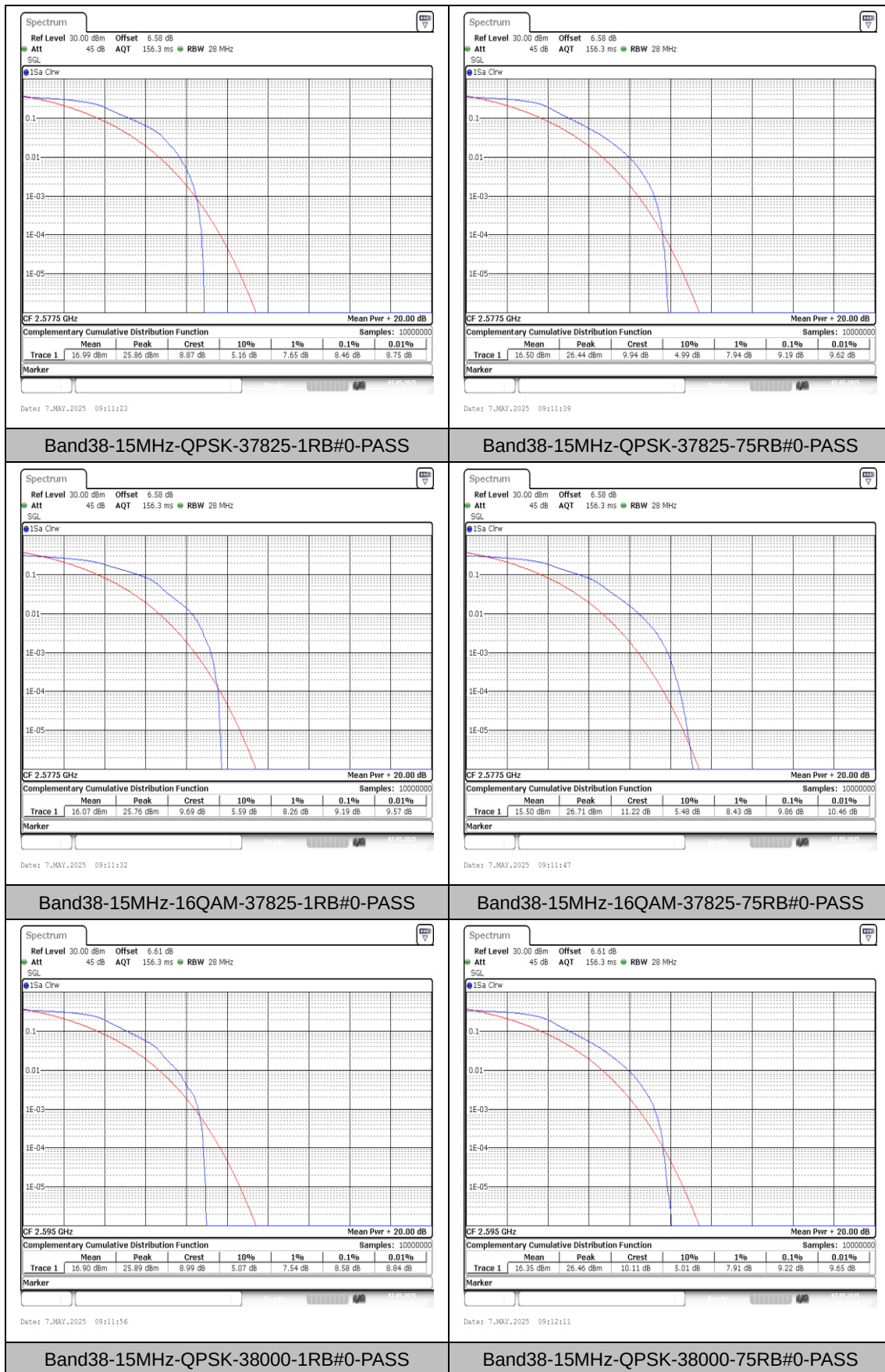
Test Graphs

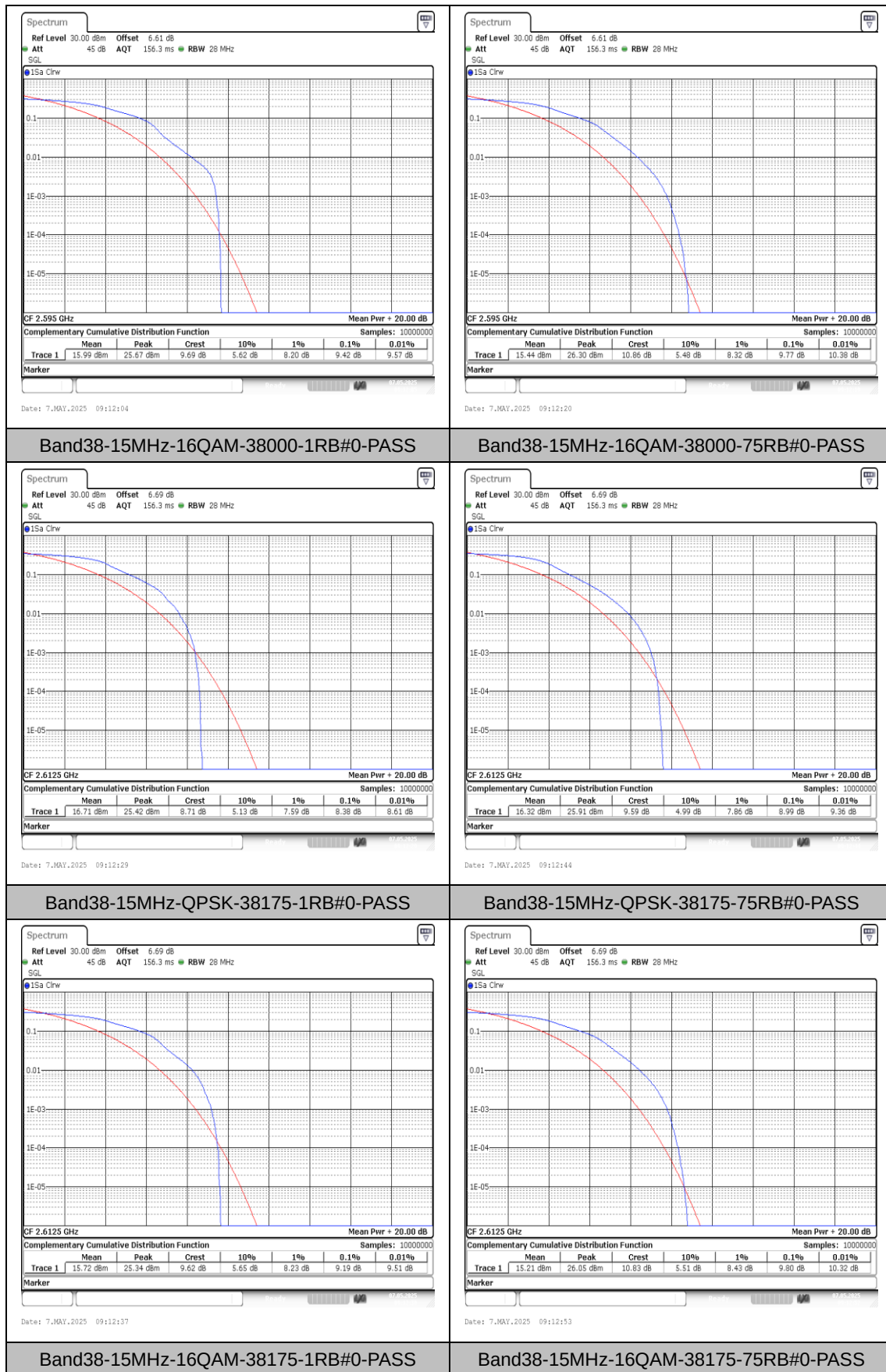


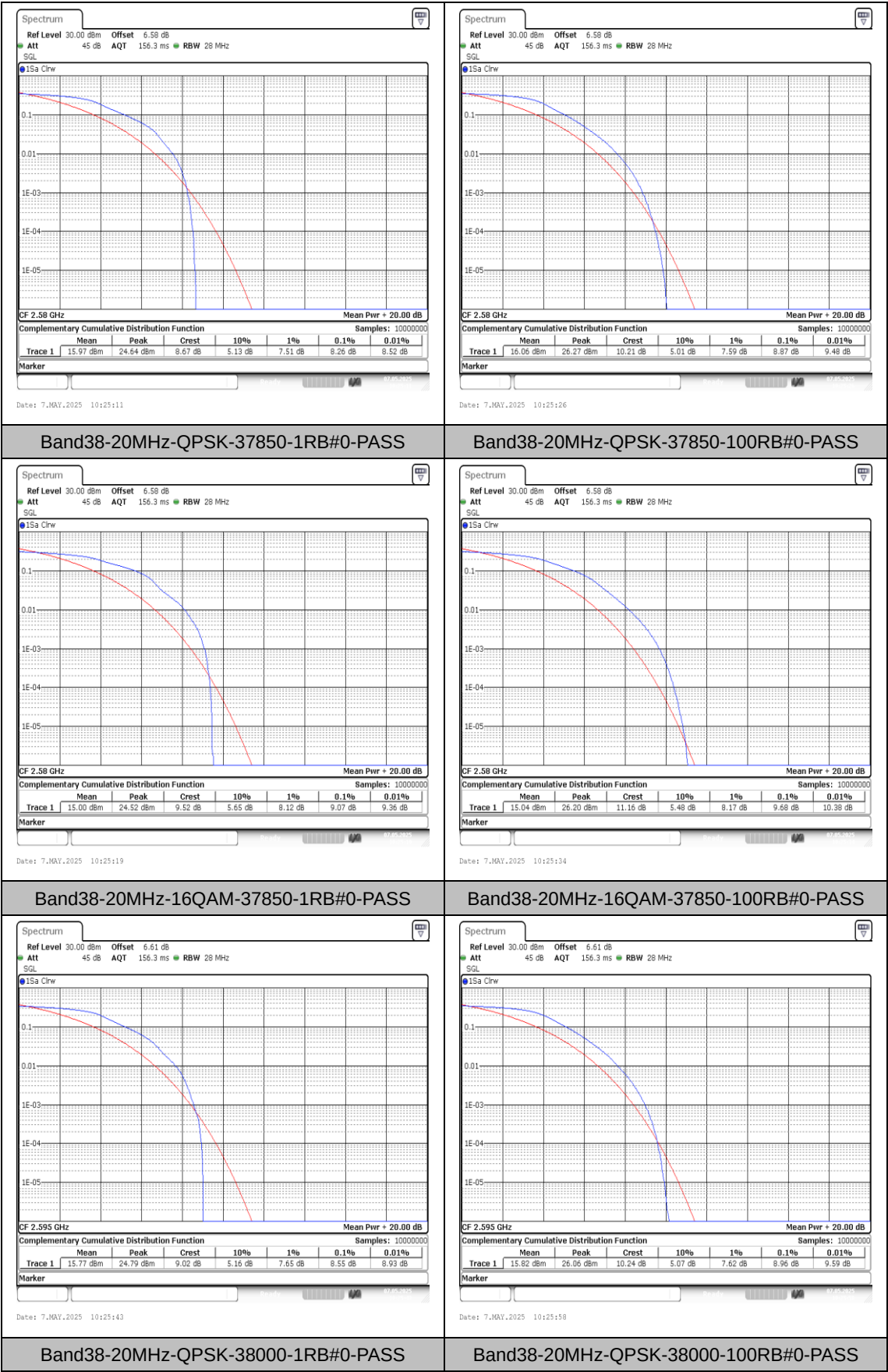


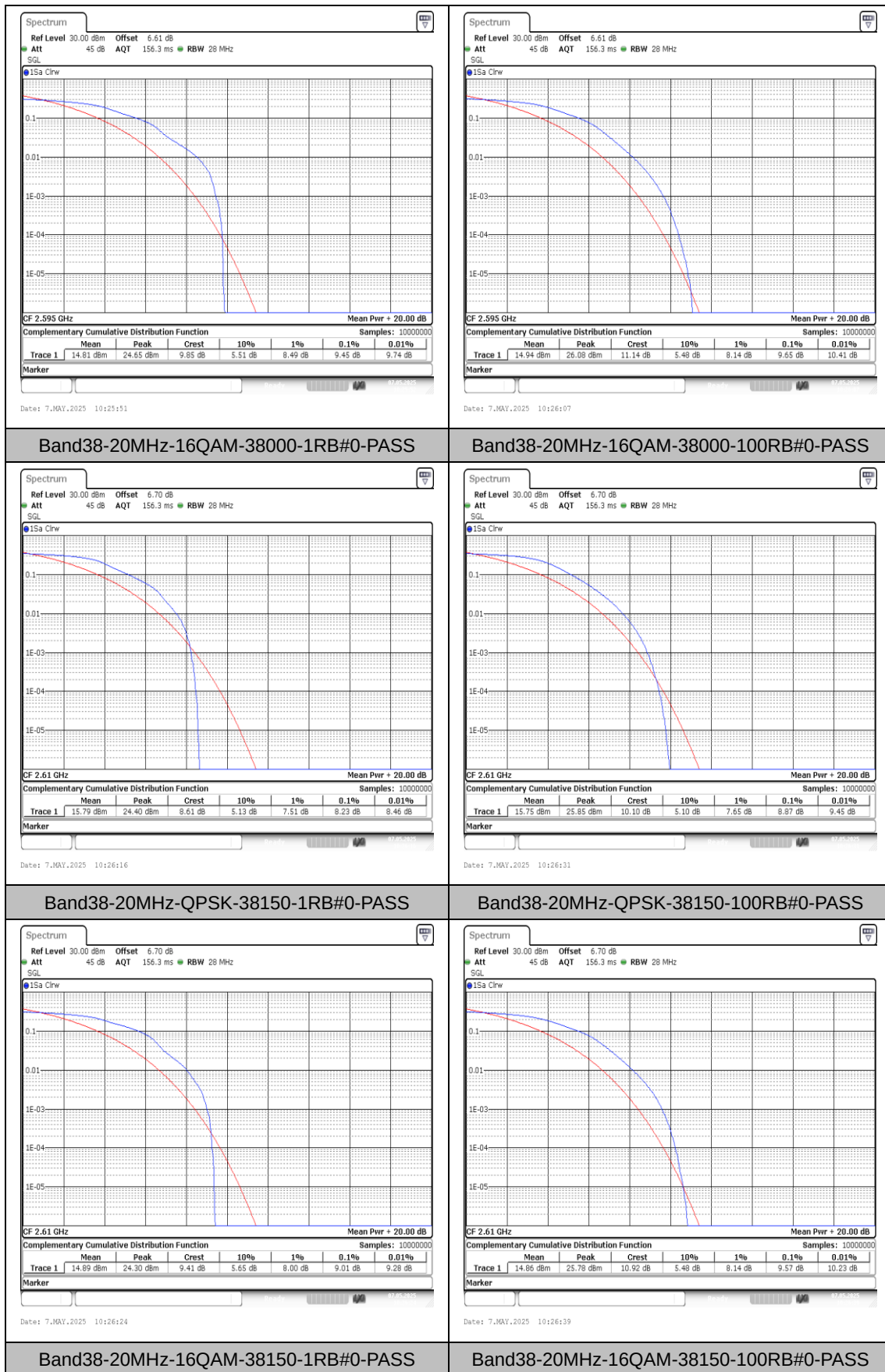










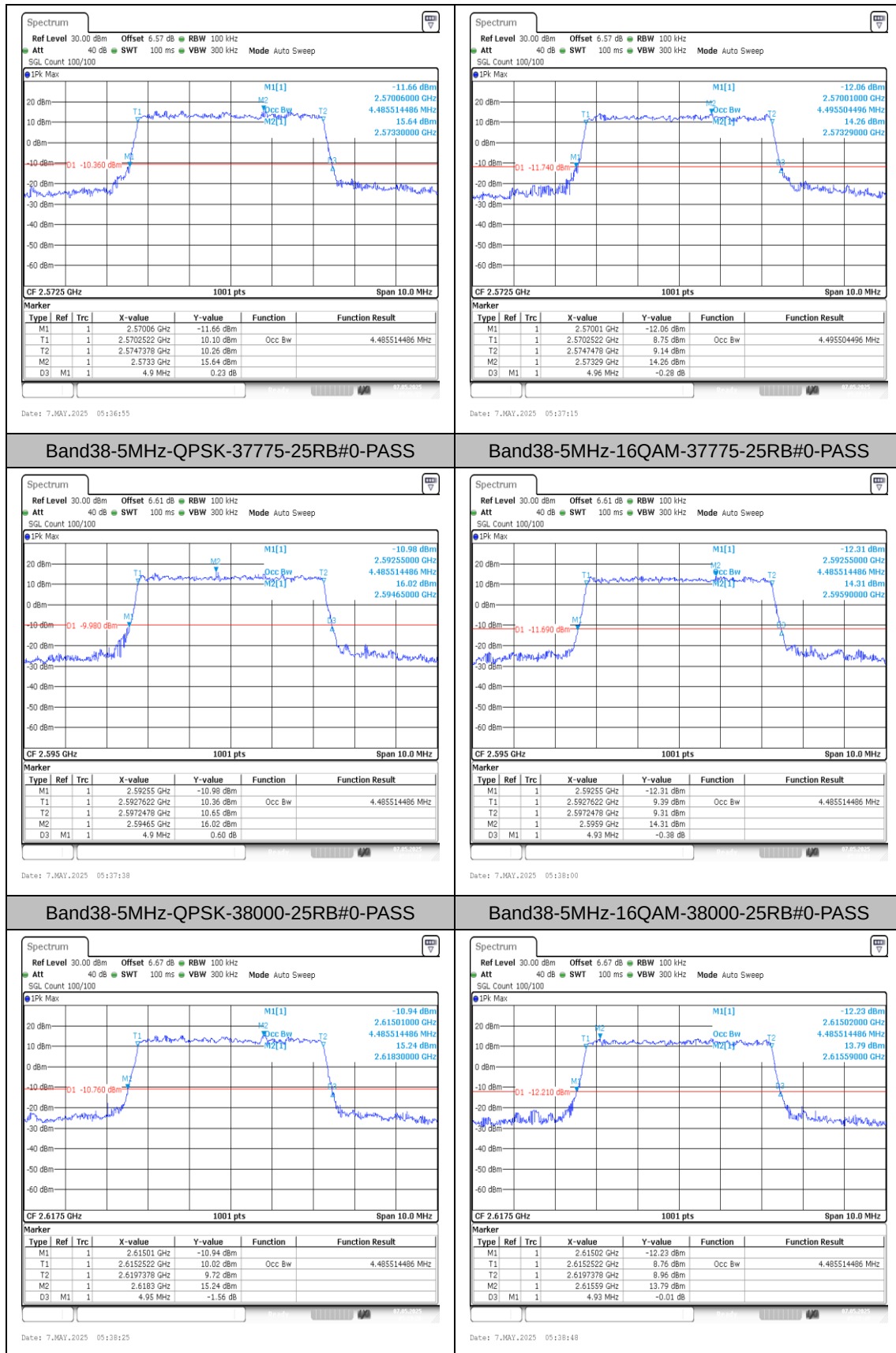


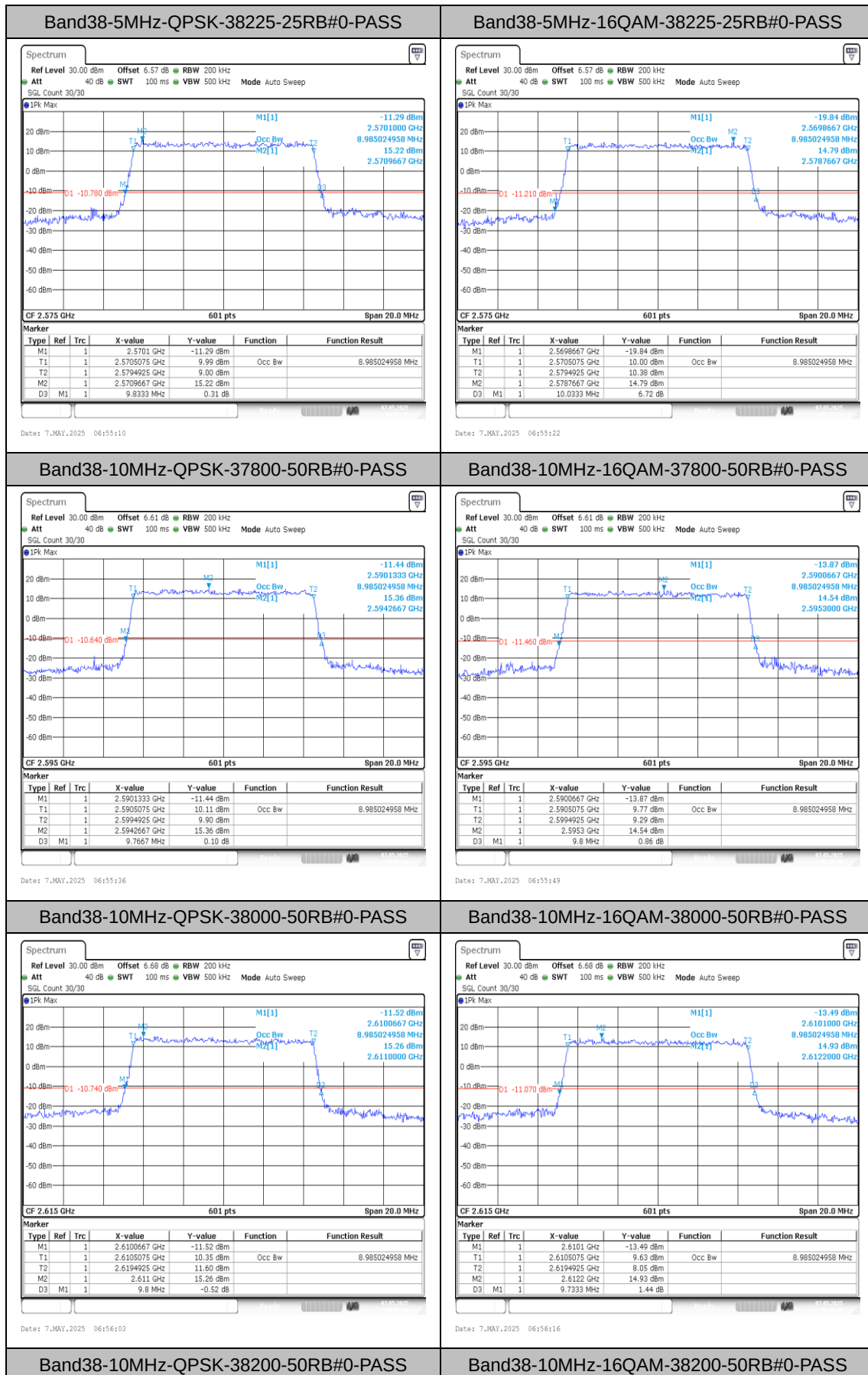
Appendix C: 26dB Bandwidth and Occupied Bandwidth

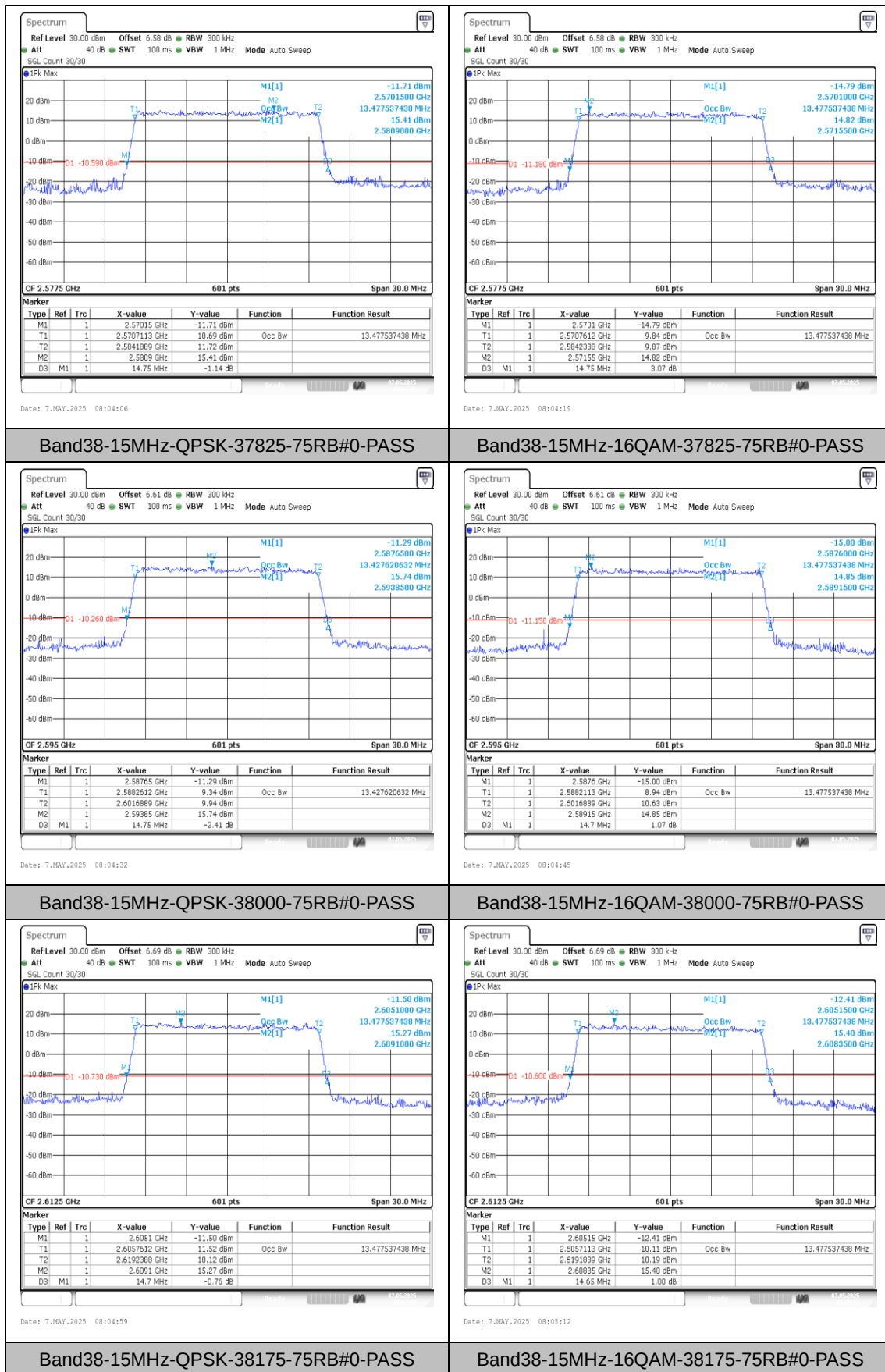
Test Result

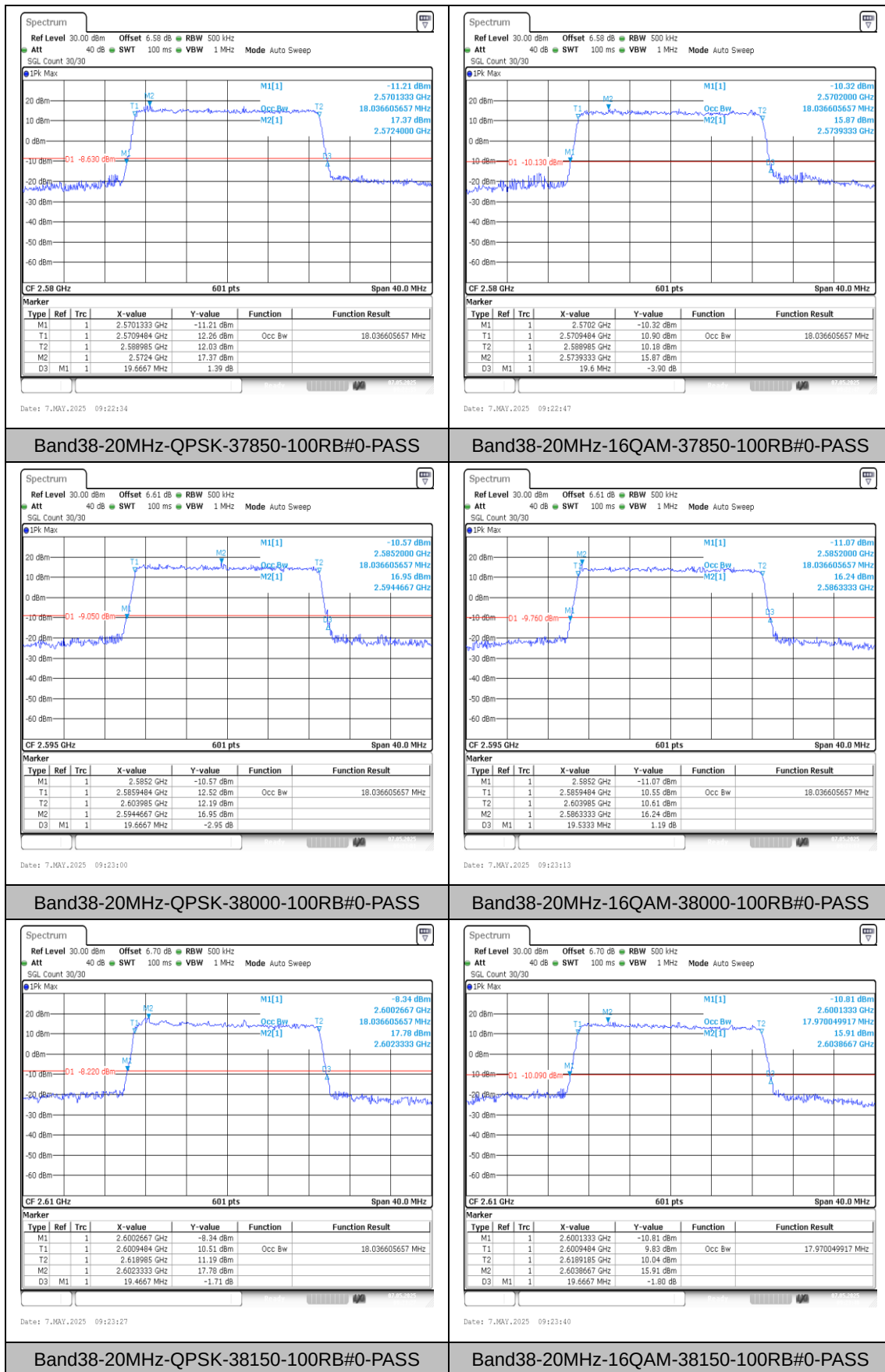
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.486	4.90	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.496	4.96	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.486	4.90	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.486	4.93	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.486	4.95	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.486	4.93	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.985	9.83	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.985	10.03	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.985	9.77	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.985	9.80	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.985	9.80	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.985	9.73	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.478	14.75	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.478	14.75	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.428	14.75	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.478	14.70	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.478	14.70	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.478	14.65	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.037	19.67	PASS
Band38	20MHz	16QAM	37850	100RB#0	18.037	19.60	PASS
Band38	20MHz	QPSK	38000	100RB#0	18.037	19.67	PASS
Band38	20MHz	16QAM	38000	100RB#0	18.037	19.53	PASS
Band38	20MHz	QPSK	38150	100RB#0	18.037	19.47	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.97	19.67	PASS

Test Graphs









Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	-18.75	PASS
Band38	5MHz	QPSK	37775	1RB#24	-26.12	PASS
Band38	5MHz	QPSK	37775	25RB#0	-34.85	PASS
Band38	5MHz	16QAM	37775	1RB#0	-20.10	PASS
Band38	5MHz	16QAM	37775	1RB#24	-28.08	PASS
Band38	5MHz	16QAM	37775	25RB#0	-36.18	PASS
Band38	5MHz	QPSK	38225	1RB#0	-25.93	PASS
Band38	5MHz	QPSK	38225	1RB#24	-19.14	PASS
Band38	5MHz	QPSK	38225	25RB#0	-36.65	PASS
Band38	5MHz	16QAM	38225	1RB#0	-27.60	PASS
Band38	5MHz	16QAM	38225	1RB#24	-20.72	PASS
Band38	5MHz	16QAM	38225	25RB#0	-38.32	PASS
Band38	10MHz	QPSK	37800	1RB#0	-20.31	PASS
Band38	10MHz	QPSK	37800	1RB#49	-26.91	PASS
Band38	10MHz	QPSK	37800	50RB#0	-38.72	PASS
Band38	10MHz	16QAM	37800	1RB#0	-22.34	PASS
Band38	10MHz	16QAM	37800	1RB#49	-28.69	PASS
Band38	10MHz	16QAM	37800	50RB#0	-37.95	PASS
Band38	10MHz	QPSK	38200	1RB#0	-25.89	PASS
Band38	10MHz	QPSK	38200	1RB#49	-20.89	PASS
Band38	10MHz	QPSK	38200	50RB#0	-39.96	PASS
Band38	10MHz	16QAM	38200	1RB#0	-27.59	PASS
Band38	10MHz	16QAM	38200	1RB#49	-22.20	PASS
Band38	10MHz	16QAM	38200	50RB#0	-40.10	PASS
Band38	15MHz	QPSK	37825	1RB#0	-22.09	PASS
Band38	15MHz	QPSK	37825	1RB#74	-26.65	PASS
Band38	15MHz	QPSK	37825	75RB#0	-39.53	PASS
Band38	15MHz	16QAM	37825	1RB#0	-22.24	PASS
Band38	15MHz	16QAM	37825	1RB#74	-28.60	PASS
Band38	15MHz	16QAM	37825	75RB#0	-39.76	PASS
Band38	15MHz	QPSK	38175	1RB#0	-25.48	PASS
Band38	15MHz	QPSK	38175	1RB#74	-22.12	PASS
Band38	15MHz	QPSK	38175	75RB#0	-39.22	PASS
Band38	15MHz	16QAM	38175	1RB#0	-26.80	PASS
Band38	15MHz	16QAM	38175	1RB#74	-24.55	PASS

Band38	15MHz	16QAM	38175	75RB#0	-41.09	PASS
Band38	20MHz	QPSK	37850	1RB#0	-21.70	PASS
Band38	20MHz	QPSK	37850	1RB#99	-32.47	PASS
Band38	20MHz	QPSK	37850	100RB#0	-42.41	PASS
Band38	20MHz	16QAM	37850	1RB#0	-23.40	PASS
Band38	20MHz	16QAM	37850	1RB#99	-33.61	PASS
Band38	20MHz	16QAM	37850	100RB#0	-41.72	PASS
Band38	20MHz	QPSK	38150	1RB#0	-26.68	PASS
Band38	20MHz	QPSK	38150	1RB#99	-24.55	PASS
Band38	20MHz	QPSK	38150	100RB#0	-42.38	PASS
Band38	20MHz	16QAM	38150	1RB#0	-28.18	PASS
Band38	20MHz	16QAM	38150	1RB#99	-23.98	PASS
Band38	20MHz	16QAM	38150	100RB#0	-42.97	PASS

Test Graphs

