

FCC Appendix RF Test Data for-LTE Band 41

Company: : Shenzhen Qianxun Yunchuang Technology Co., Ltd.

EUT : GPS TRACKER

Model Number : Q8

FCC ID : 2BRNM-Q8

Report No. : CTA25073100103

Reviewed By : Eric Wang

Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.64	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.49	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.41	PASS
Band41	5MHz	QPSK	39675	12RB#0	22.68	PASS
Band41	5MHz	QPSK	39675	12RB#6	22.67	PASS
Band41	5MHz	QPSK	39675	12RB#13	22.69	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.66	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.60	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.68	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.70	PASS
Band41	5MHz	QPSK	40620	12RB#0	22.65	PASS
Band41	5MHz	QPSK	40620	12RB#6	22.67	PASS
Band41	5MHz	QPSK	40620	12RB#13	22.64	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.67	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.17	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.18	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.25	PASS
Band41	5MHz	QPSK	41565	12RB#0	22.44	PASS
Band41	5MHz	QPSK	41565	12RB#6	22.45	PASS
Band41	5MHz	QPSK	41565	12RB#13	22.36	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.47	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.96	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.76	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.77	PASS
Band41	5MHz	16QAM	39675	12RB#0	21.61	PASS
Band41	5MHz	16QAM	39675	12RB#6	21.71	PASS
Band41	5MHz	16QAM	39675	12RB#13	21.57	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.69	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.58	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.27	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	21.66	PASS
Band41	5MHz	16QAM	40620	12RB#6	21.67	PASS
Band41	5MHz	16QAM	40620	12RB#13	21.55	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.52	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.84	PASS

Band41	5MHz	16QAM	41565	1RB#12	22.66	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.51	PASS
Band41	5MHz	16QAM	41565	12RB#0	21.40	PASS
Band41	5MHz	16QAM	41565	12RB#6	21.40	PASS
Band41	5MHz	16QAM	41565	12RB#13	21.38	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.43	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.64	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.55	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.77	PASS
Band41	10MHz	QPSK	39700	25RB#0	22.67	PASS
Band41	10MHz	QPSK	39700	25RB#12	22.67	PASS
Band41	10MHz	QPSK	39700	25RB#25	22.78	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.71	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.46	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.57	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.49	PASS
Band41	10MHz	QPSK	40620	25RB#0	22.62	PASS
Band41	10MHz	QPSK	40620	25RB#12	22.65	PASS
Band41	10MHz	QPSK	40620	25RB#25	22.64	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.66	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.32	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.27	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.33	PASS
Band41	10MHz	QPSK	41540	25RB#0	22.50	PASS
Band41	10MHz	QPSK	41540	25RB#12	22.51	PASS
Band41	10MHz	QPSK	41540	25RB#25	22.47	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.43	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.68	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.80	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.93	PASS
Band41	10MHz	16QAM	39700	25RB#0	21.66	PASS
Band41	10MHz	16QAM	39700	25RB#12	21.66	PASS
Band41	10MHz	16QAM	39700	25RB#25	21.68	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.27	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.42	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.97	PASS
Band41	10MHz	16QAM	40620	25RB#0	21.68	PASS
Band41	10MHz	16QAM	40620	25RB#12	21.59	PASS
Band41	10MHz	16QAM	40620	25RB#25	21.68	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.50	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.53	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.61	PASS
Band41	10MHz	16QAM	41540	25RB#0	21.43	PASS

Band41	10MHz	16QAM	41540	25RB#12	21.43	PASS
Band41	10MHz	16QAM	41540	25RB#25	21.49	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.25	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.23	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.25	PASS
Band41	15MHz	QPSK	39725	38RB#0	22.29	PASS
Band41	15MHz	QPSK	39725	38RB#18	22.29	PASS
Band41	15MHz	QPSK	39725	38RB#37	22.29	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.33	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.38	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.36	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.48	PASS
Band41	15MHz	QPSK	40620	38RB#0	22.51	PASS
Band41	15MHz	QPSK	40620	38RB#18	22.38	PASS
Band41	15MHz	QPSK	40620	38RB#37	22.56	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.49	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.30	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.29	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.15	PASS
Band41	15MHz	QPSK	41515	38RB#0	22.51	PASS
Band41	15MHz	QPSK	41515	38RB#18	22.51	PASS
Band41	15MHz	QPSK	41515	38RB#37	22.51	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.42	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.48	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.47	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.39	PASS
Band41	15MHz	16QAM	39725	38RB#0	22.29	PASS
Band41	15MHz	16QAM	39725	38RB#18	22.29	PASS
Band41	15MHz	16QAM	39725	38RB#37	22.29	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.37	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.32	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.52	PASS
Band41	15MHz	16QAM	40620	38RB#0	22.58	PASS
Band41	15MHz	16QAM	40620	38RB#18	22.51	PASS
Band41	15MHz	16QAM	40620	38RB#37	22.49	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.73	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.35	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.32	PASS
Band41	15MHz	16QAM	41515	38RB#0	22.51	PASS
Band41	15MHz	16QAM	41515	38RB#18	22.51	PASS
Band41	15MHz	16QAM	41515	38RB#37	22.51	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.15	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.74	PASS

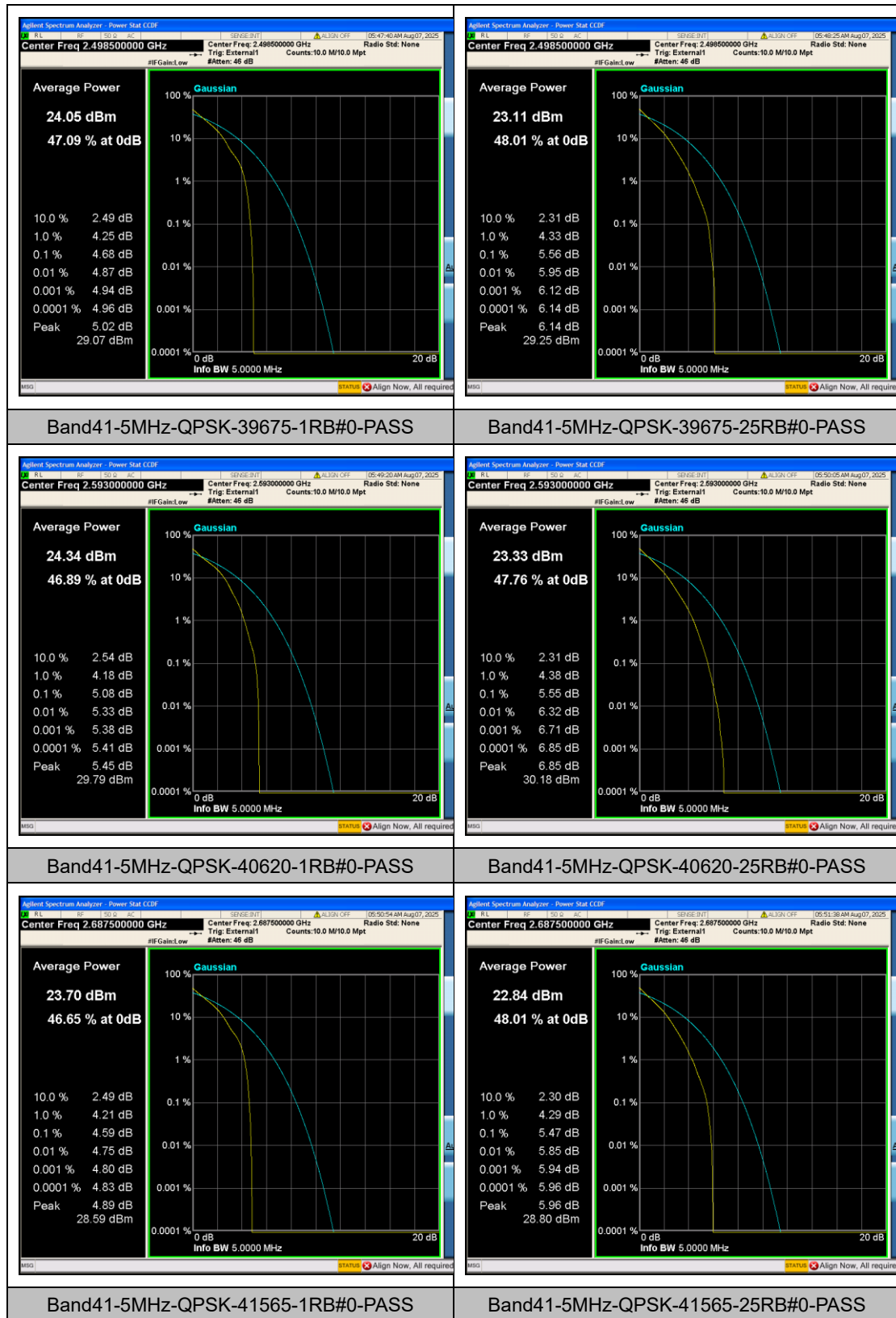
Band41	20MHz	QPSK	39750	1RB#99	23.22	PASS
Band41	20MHz	QPSK	39750	50RB#0	22.16	PASS
Band41	20MHz	QPSK	39750	50RB#25	22.17	PASS
Band41	20MHz	QPSK	39750	50RB#50	22.27	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.20	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.48	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.75	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.33	PASS
Band41	20MHz	QPSK	40620	50RB#0	22.37	PASS
Band41	20MHz	QPSK	40620	50RB#25	22.39	PASS
Band41	20MHz	QPSK	40620	50RB#50	22.44	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.50	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.44	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.51	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.26	PASS
Band41	20MHz	QPSK	41490	50RB#0	22.41	PASS
Band41	20MHz	QPSK	41490	50RB#25	22.47	PASS
Band41	20MHz	QPSK	41490	50RB#50	22.30	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.42	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.68	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.91	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.75	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.61	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.59	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.52	PASS
Band41	20MHz	16QAM	41490	1RB#0	23.11	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.98	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.81	PASS

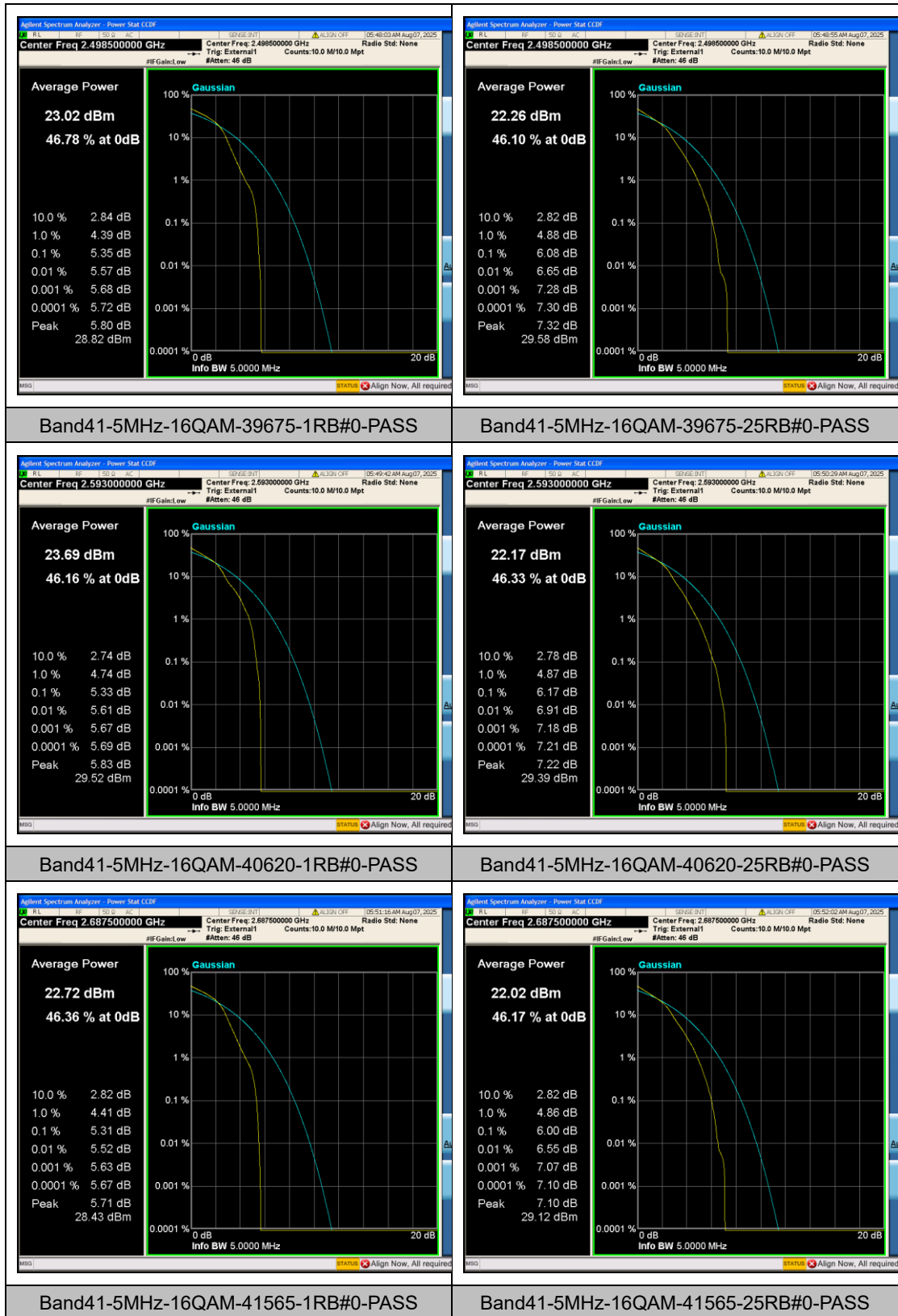
Appendix B: Peak-to-Average Ratio(CCDF)

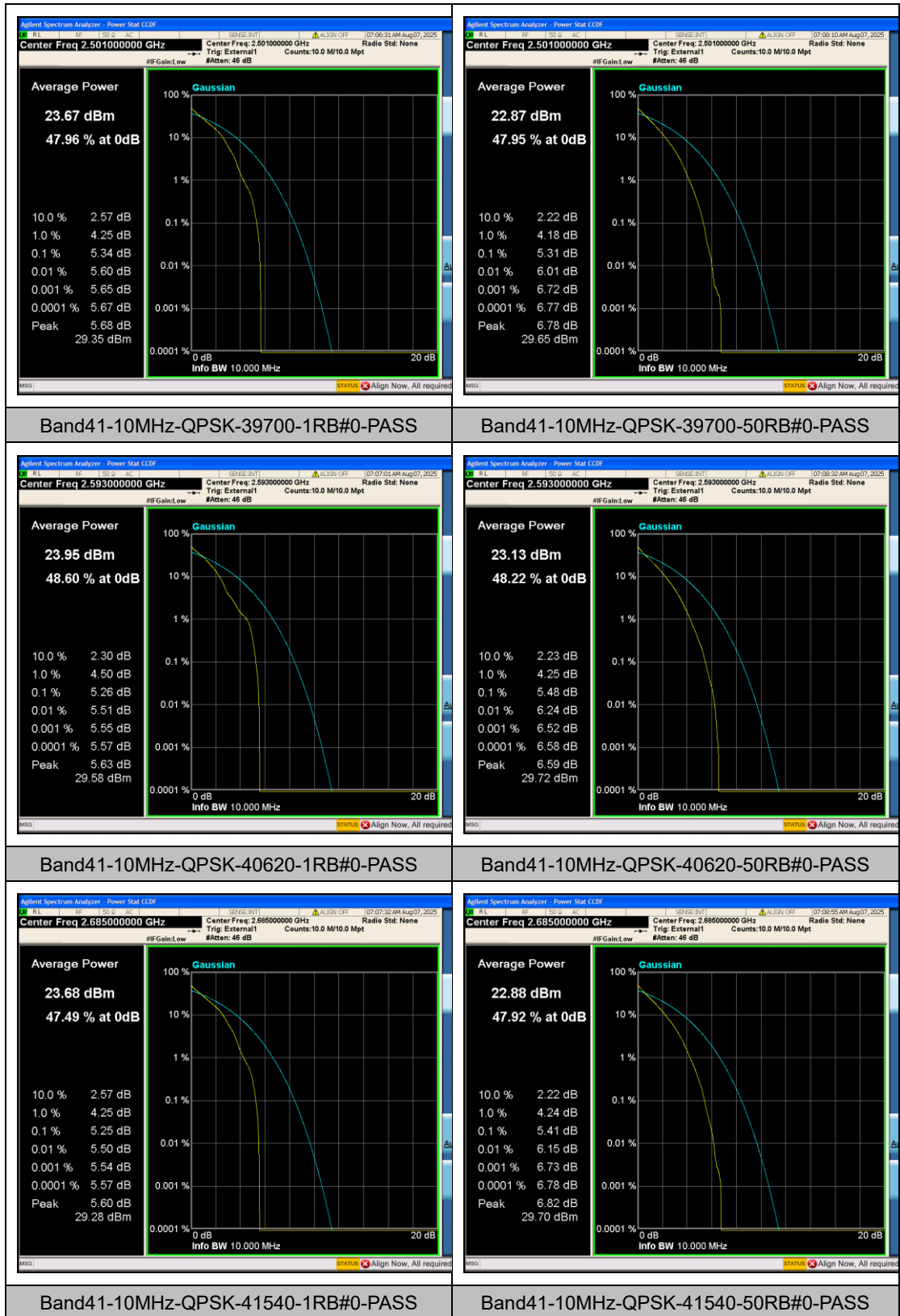
Test Result

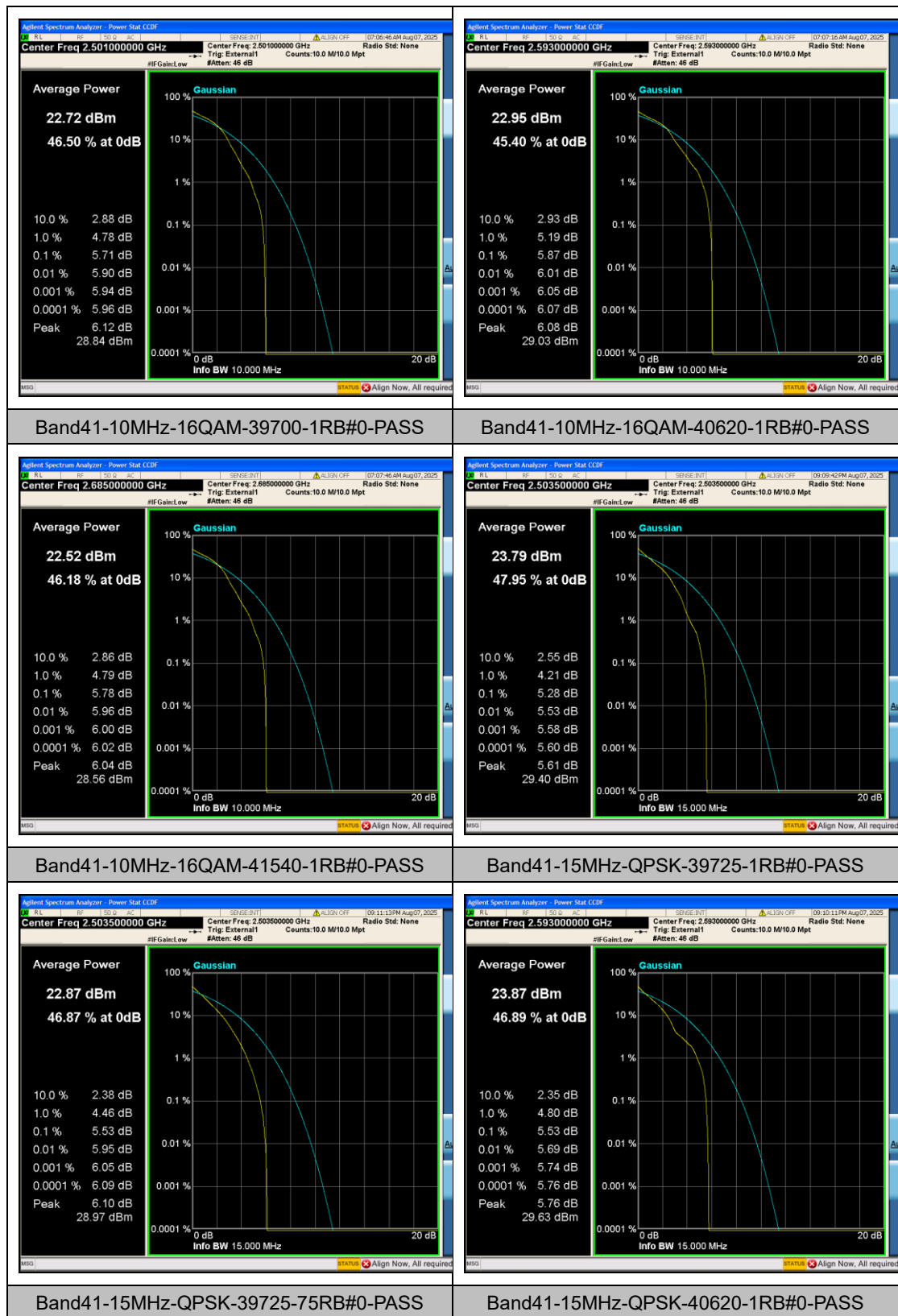
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	4.68	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	5.56	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	5.08	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	5.55	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	4.59	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	5.47	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	5.35	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	6.08	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	5.33	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	6.17	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	5.31	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	6.00	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	5.34	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	5.31	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	5.26	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	5.48	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	5.25	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	5.41	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	5.71	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	5.87	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	5.78	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	5.28	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	5.53	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	5.53	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	5.74	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	5.26	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	5.64	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	5.82	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	5.82	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	5.72	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	4.63	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.10	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	5.21	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.39	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	4.63	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.26	13	PASS

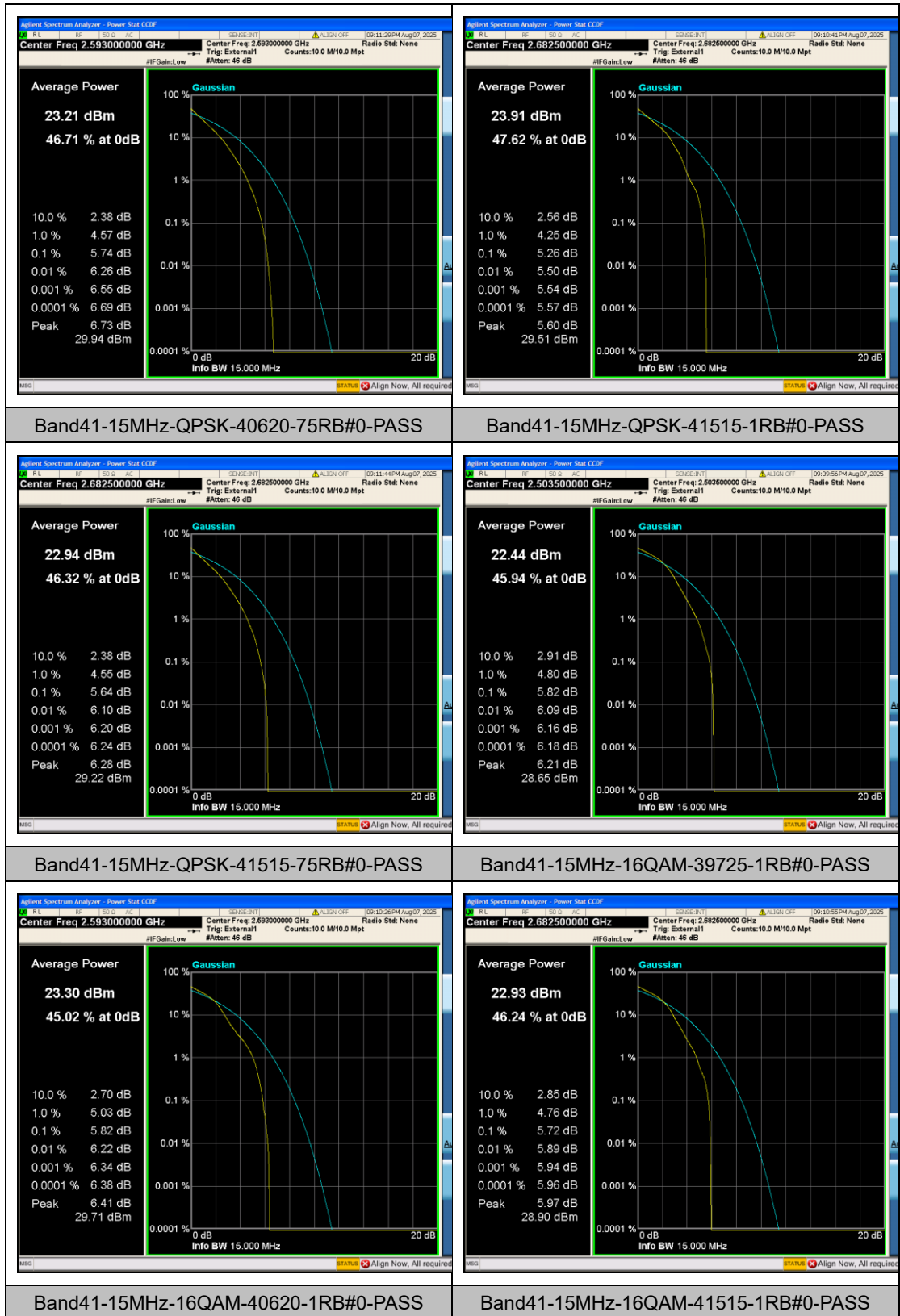
Test Graphs

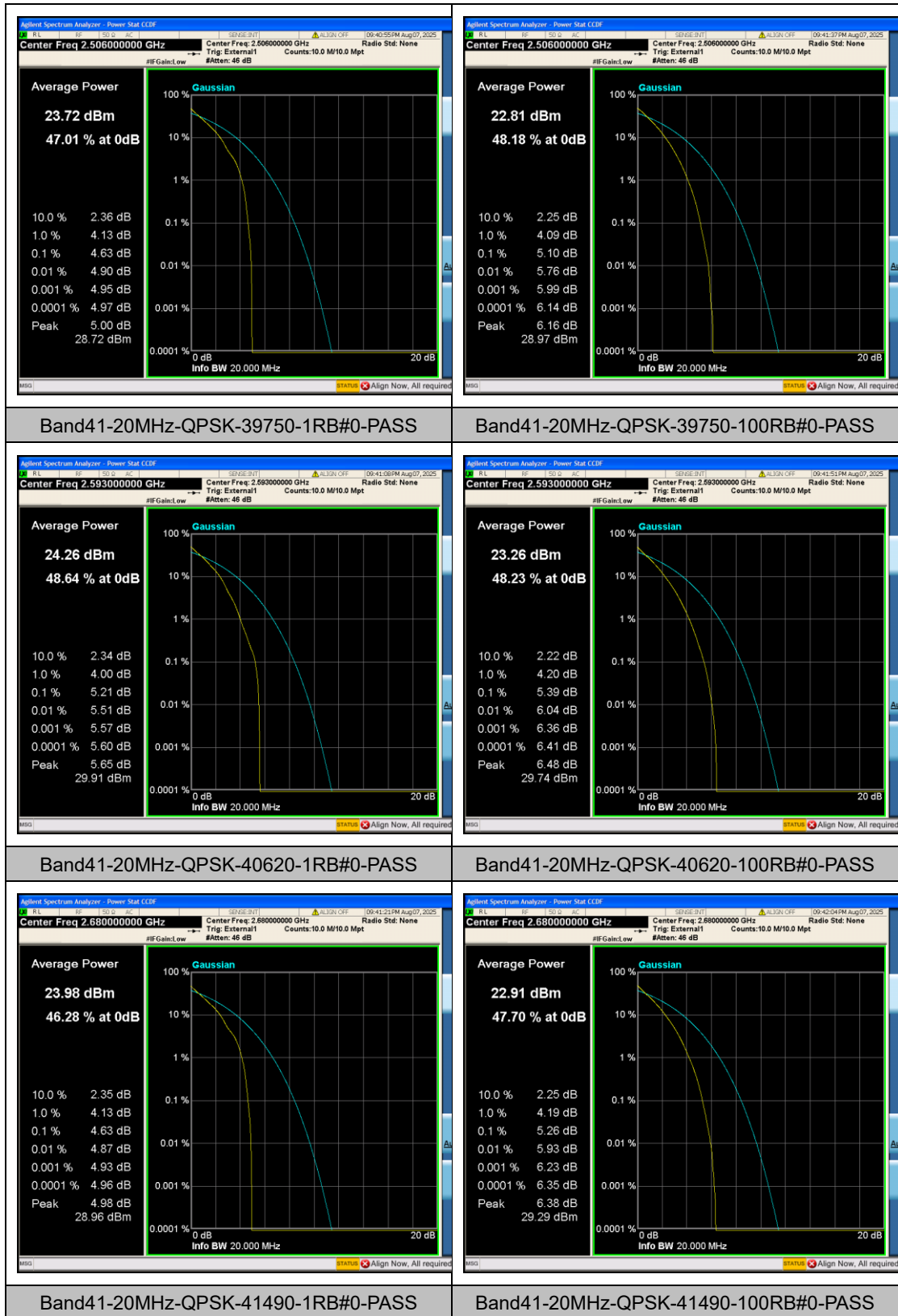










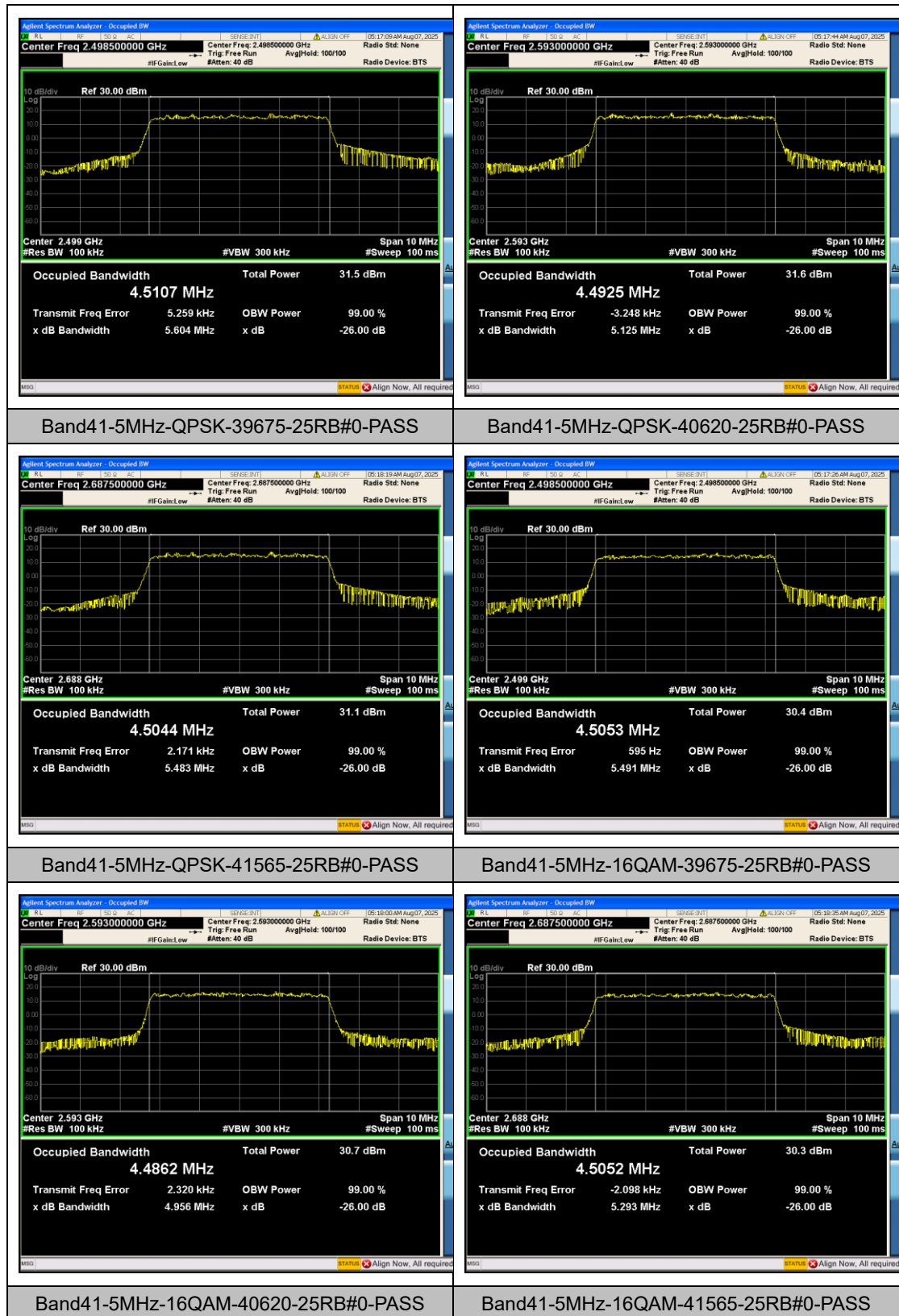


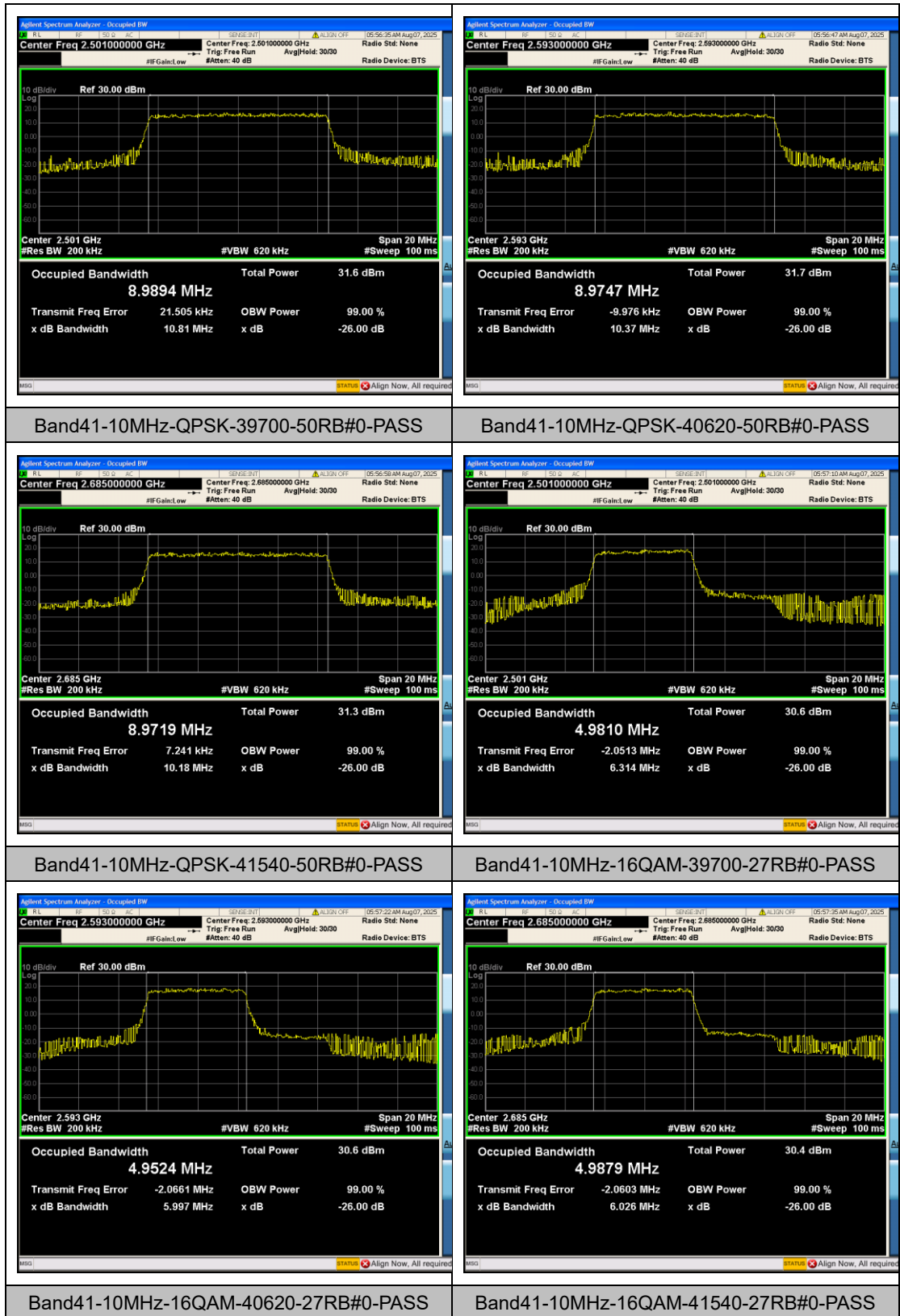
Appendix C: 26dB Bandwidth and Occupied Bandwidth

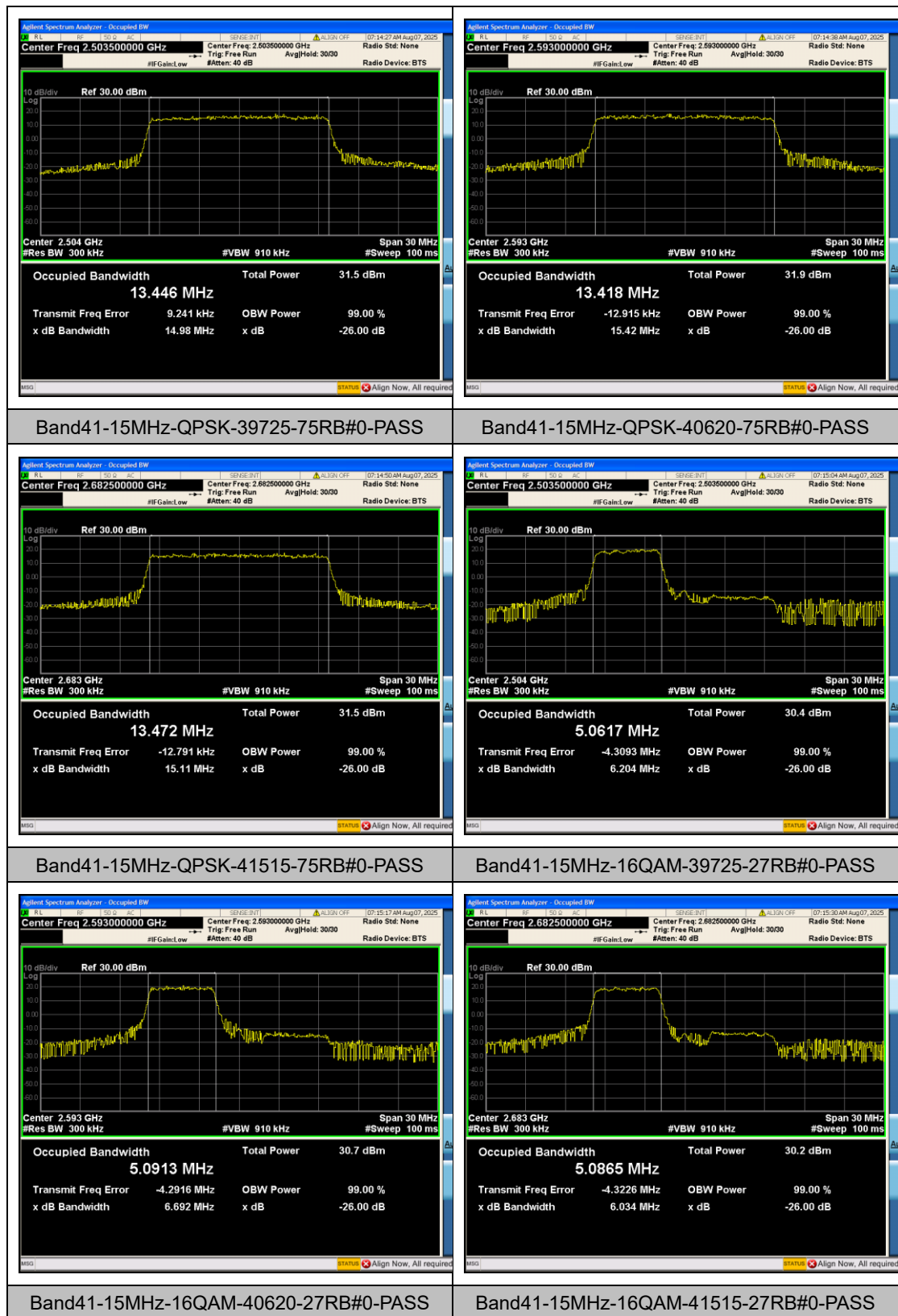
Test Result

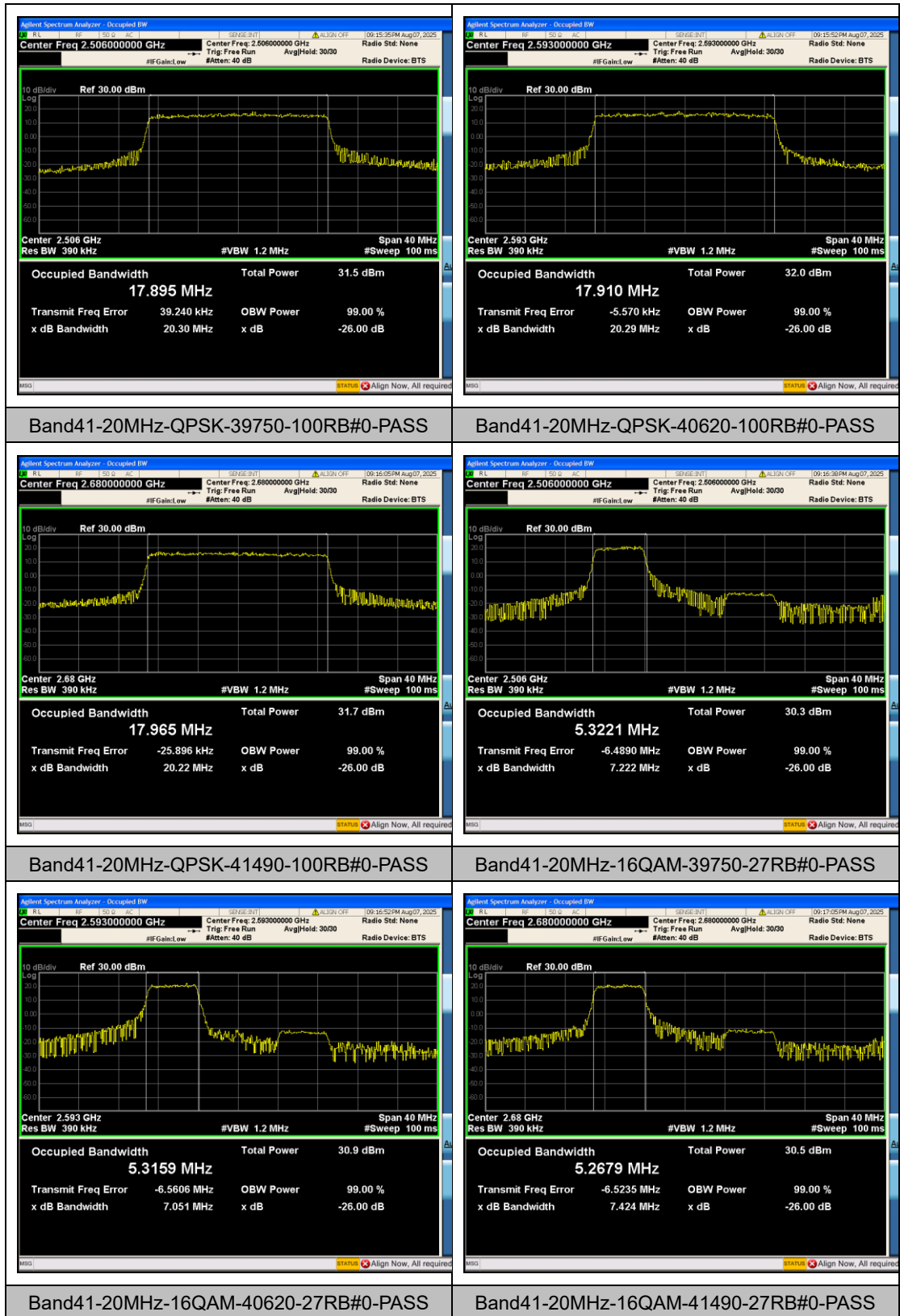
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5107	5.604	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4925	5.125	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5044	5.483	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5053	5.491	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4862	4.956	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.5052	5.293	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9894	10.81	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9747	10.37	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9719	10.18	PASS
Band41	10MHz	16QAM	39700	27RB#0	4.9810	6.314	PASS
Band41	10MHz	16QAM	40620	27RB#0	4.9524	5.997	PASS
Band41	10MHz	16QAM	41540	27RB#0	4.9879	6.026	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.446	14.98	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.418	15.42	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.472	15.11	PASS
Band41	15MHz	16QAM	39725	27RB#0	5.0617	6.204	PASS
Band41	15MHz	16QAM	40620	27RB#0	5.0913	6.692	PASS
Band41	15MHz	16QAM	41515	27RB#0	5.0865	6.034	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.895	20.30	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.910	20.29	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.965	20.22	PASS
Band41	20MHz	16QAM	39750	27RB#0	5.3221	7.222	PASS
Band41	20MHz	16QAM	40620	27RB#0	5.3159	7.051	PASS
Band41	20MHz	16QAM	41490	27RB#0	5.2679	7.424	PASS

Test Graphs









Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	-24.95	PASS
Band41	5MHz	QPSK	39675	1RB#24	-42.79	PASS
Band41	5MHz	QPSK	39675	25RB#0	-24.62	PASS
Band41	5MHz	QPSK	41565	1RB#0	-42.18	PASS
Band41	5MHz	QPSK	41565	1RB#24	-23.46	PASS
Band41	5MHz	QPSK	41565	25RB#0	-33.62	PASS
Band41	5MHz	16QAM	39675	1RB#0	-25.68	PASS
Band41	5MHz	16QAM	39675	1RB#24	-42.91	PASS
Band41	5MHz	16QAM	39675	25RB#0	-26.62	PASS
Band41	5MHz	16QAM	41565	1RB#0	-42.17	PASS
Band41	5MHz	16QAM	41565	1RB#24	-25.45	PASS
Band41	5MHz	16QAM	41565	25RB#0	-34.69	PASS
Band41	10MHz	QPSK	39700	1RB#0	-31.68	PASS
Band41	10MHz	QPSK	39700	1RB#49	-36.52	PASS
Band41	10MHz	QPSK	39700	50RB#0	-30.94	PASS
Band41	10MHz	QPSK	41540	1RB#0	-42.29	PASS
Band41	10MHz	QPSK	41540	1RB#49	-42.30	PASS
Band41	10MHz	QPSK	41540	50RB#0	-36.11	PASS
Band41	10MHz	16QAM	39700	1RB#0	-33.43	PASS
Band41	10MHz	16QAM	39700	1RB#49	-38.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	-42.40	PASS
Band41	10MHz	16QAM	41540	1RB#49	-42.32	PASS
Band41	15MHz	QPSK	39725	1RB#0	-33.40	PASS
Band41	15MHz	QPSK	39725	1RB#74	-42.15	PASS
Band41	15MHz	QPSK	39725	75RB#0	-29.41	PASS
Band41	15MHz	QPSK	41515	1RB#0	-42.44	PASS
Band41	15MHz	QPSK	41515	1RB#74	-42.49	PASS
Band41	15MHz	QPSK	41515	75RB#0	-37.62	PASS
Band41	15MHz	16QAM	39725	1RB#0	-35.02	PASS
Band41	15MHz	16QAM	39725	1RB#74	-42.23	PASS
Band41	15MHz	16QAM	41515	1RB#0	-42.47	PASS
Band41	15MHz	16QAM	41515	1RB#74	-42.38	PASS
Band41	20MHz	QPSK	39750	1RB#0	-34.19	PASS
Band41	20MHz	QPSK	39750	1RB#99	-42.41	PASS
Band41	20MHz	QPSK	39750	100RB#0	-31.63	PASS
Band41	20MHz	QPSK	41490	1RB#0	-42.65	PASS
Band41	20MHz	QPSK	41490	1RB#99	-42.63	PASS

Band41	20MHz	QPSK	41490	100RB#0	-39.44	PASS
Band41	20MHz	16QAM	39750	1RB#0	-34.96	PASS
Band41	20MHz	16QAM	39750	1RB#99	-42.29	PASS
Band41	20MHz	16QAM	41490	1RB#0	-42.59	PASS
Band41	20MHz	16QAM	41490	1RB#99	-42.54	PASS