



LORA multi-function positioning terminal

M/N:KG-04

FCC ID:2AQSK-KG-04

Applicant:HuiZhou BoShiJie Technology CO.,Ltd

Appendix for LTE Band 41



Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	40265	1RB#0	22.21	PASS
Band41	5MHz	16QAM	40265	1RB#0	21.48	PASS
Band41	5MHz	QPSK	40265	1RB#12	22.48	PASS
Band41	5MHz	16QAM	40265	1RB#12	21.78	PASS
Band41	5MHz	QPSK	40265	1RB#24	21.88	PASS
Band41	5MHz	16QAM	40265	1RB#24	21.16	PASS
Band41	10MHz	QPSK	40290	1RB#0	22.69	PASS
Band41	10MHz	QPSK	40740	1RB#0	21.29	PASS
Band41	5MHz	QPSK	40265	12RB#0	22.30	PASS
Band41	5MHz	16QAM	40265	12RB#0	21.32	PASS
Band41	5MHz	QPSK	40265	12RB#6	22.31	PASS
Band41	5MHz	16QAM	40265	12RB#6	21.35	PASS
Band41	5MHz	QPSK	40265	12RB#13	22.12	PASS
Band41	5MHz	16QAM	40265	12RB#13	21.16	PASS
Band41	5MHz	QPSK	40265	25RB#0	21.81	PASS
Band41	5MHz	16QAM	40265	25RB#0	20.90	PASS
Band41	5MHz	QPSK	40740	1RB#0	21.33	PASS
Band41	5MHz	16QAM	40740	1RB#0	20.30	PASS
Band41	5MHz	QPSK	40740	1RB#12	21.97	PASS
Band41	5MHz	16QAM	40740	1RB#12	21.00	PASS
Band41	5MHz	QPSK	40740	1RB#24	21.92	PASS
Band41	5MHz	16QAM	40740	1RB#24	21.06	PASS
Band41	5MHz	QPSK	40740	12RB#0	21.53	PASS
Band41	5MHz	16QAM	40740	12RB#0	20.49	PASS
Band41	5MHz	QPSK	40740	12RB#6	21.58	PASS
Band41	5MHz	16QAM	40740	12RB#6	20.55	PASS
Band41	5MHz	QPSK	40740	12RB#13	21.98	PASS
Band41	5MHz	16QAM	40740	12RB#13	20.96	PASS
Band41	5MHz	QPSK	40740	25RB#0	21.18	PASS
Band41	5MHz	16QAM	40740	25RB#0	20.20	PASS
Band41	5MHz	QPSK	41215	1RB#0	19.39	PASS
Band41	5MHz	16QAM	41215	1RB#0	19.42	PASS
Band41	5MHz	QPSK	41215	1RB#12	19.61	PASS
Band41	5MHz	16QAM	41215	1RB#12	19.57	PASS
Band41	5MHz	QPSK	41215	1RB#24	18.25	PASS
Band41	5MHz	16QAM	41215	1RB#24	18.53	PASS



Band41	5MHz	QPSK	41215	12RB#0	19.83	PASS
Band41	5MHz	16QAM	41215	12RB#0	19.08	PASS
Band41	5MHz	QPSK	41215	12RB#6	19.76	PASS
Band41	5MHz	16QAM	41215	12RB#6	19.04	PASS
Band41	5MHz	QPSK	41215	12RB#13	19.26	PASS
Band41	5MHz	16QAM	41215	12RB#13	18.43	PASS
Band41	5MHz	QPSK	41215	25RB#0	19.42	PASS
Band41	5MHz	16QAM	41215	25RB#0	18.48	PASS
Band41	10MHz	16QAM	40290	1RB#0	21.90	PASS
Band41	10MHz	QPSK	40290	1RB#24	22.84	PASS
Band41	10MHz	16QAM	40290	1RB#24	22.03	PASS
Band41	10MHz	QPSK	40290	1RB#49	21.64	PASS
Band41	10MHz	16QAM	40290	1RB#49	20.93	PASS
Band41	10MHz	QPSK	40290	25RB#0	22.70	PASS
Band41	10MHz	16QAM	40290	25RB#0	21.79	PASS
Band41	10MHz	QPSK	40290	25RB#12	22.69	PASS
Band41	10MHz	16QAM	40290	25RB#12	21.79	PASS
Band41	10MHz	QPSK	40290	25RB#25	22.15	PASS
Band41	10MHz	16QAM	40290	25RB#25	21.26	PASS
Band41	10MHz	16QAM	40740	1RB#0	20.09	PASS
Band41	10MHz	QPSK	40740	1RB#24	22.33	PASS
Band41	10MHz	16QAM	40740	1RB#24	21.09	PASS
Band41	10MHz	QPSK	40740	1RB#49	21.78	PASS
Band41	10MHz	16QAM	40740	1RB#49	21.05	PASS
Band41	10MHz	QPSK	40740	25RB#0	21.64	PASS
Band41	10MHz	16QAM	40740	25RB#0	20.71	PASS
Band41	10MHz	QPSK	40740	25RB#12	21.64	PASS
Band41	10MHz	16QAM	40740	25RB#12	20.71	PASS
Band41	10MHz	QPSK	40740	25RB#25	22.35	PASS
Band41	10MHz	16QAM	40740	25RB#25	21.46	PASS
Band41	10MHz	QPSK	41190	1RB#0	19.65	PASS
Band41	10MHz	16QAM	41190	1RB#0	19.49	PASS
Band41	10MHz	QPSK	41190	1RB#24	19.70	PASS
Band41	10MHz	16QAM	41190	1RB#24	19.58	PASS
Band41	10MHz	QPSK	41190	1RB#49	17.72	PASS
Band41	10MHz	16QAM	41190	1RB#49	17.66	PASS
Band41	10MHz	QPSK	41190	25RB#0	20.14	PASS
Band41	10MHz	16QAM	41190	25RB#0	19.53	PASS
Band41	10MHz	QPSK	41190	25RB#12	20.13	PASS
Band41	10MHz	16QAM	41190	25RB#12	19.60	PASS
Band41	10MHz	QPSK	41190	25RB#25	19.16	PASS
Band41	10MHz	16QAM	41190	25RB#25	19.09	PASS



Band41	10MHz	QPSK	40290	50RB#0	22.06	PASS
Band41	10MHz	QPSK	40740	50RB#0	21.41	PASS
Band41	10MHz	QPSK	41190	50RB#0	19.75	PASS
Band41	15MHz	QPSK	40315	1RB#0	22.05	PASS
Band41	15MHz	16QAM	40315	1RB#0	21.27	PASS
Band41	15MHz	QPSK	40315	1RB#38	22.60	PASS
Band41	15MHz	16QAM	40315	1RB#38	21.85	PASS
Band41	15MHz	QPSK	40315	1RB#74	21.39	PASS
Band41	15MHz	16QAM	40315	1RB#74	20.61	PASS
Band41	15MHz	QPSK	40315	38RB#0	21.83	PASS
Band41	15MHz	16QAM	40315	38RB#0	21.83	PASS
Band41	15MHz	QPSK	40315	38RB#18	21.83	PASS
Band41	15MHz	16QAM	40315	38RB#18	21.84	PASS
Band41	15MHz	QPSK	40315	38RB#37	21.74	PASS
Band41	15MHz	16QAM	40315	38RB#37	21.73	PASS
Band41	15MHz	QPSK	40740	1RB#0	21.37	PASS
Band41	15MHz	16QAM	40740	1RB#0	20.16	PASS
Band41	15MHz	QPSK	40740	1RB#38	22.29	PASS
Band41	15MHz	16QAM	40740	1RB#38	21.22	PASS
Band41	15MHz	QPSK	40740	1RB#74	22.51	PASS
Band41	15MHz	16QAM	40740	1RB#74	21.55	PASS
Band41	15MHz	QPSK	40740	38RB#0	21.45	PASS
Band41	15MHz	16QAM	40740	38RB#0	21.45	PASS
Band41	15MHz	QPSK	40740	38RB#18	21.44	PASS
Band41	15MHz	16QAM	40740	38RB#18	21.43	PASS
Band41	15MHz	QPSK	40740	38RB#37	21.43	PASS
Band41	15MHz	16QAM	40740	38RB#37	21.42	PASS
Band41	15MHz	QPSK	41165	1RB#0	21.23	PASS
Band41	15MHz	16QAM	41165	1RB#0	20.44	PASS
Band41	15MHz	QPSK	41165	1RB#38	20.11	PASS
Band41	15MHz	16QAM	41165	1RB#38	19.99	PASS
Band41	15MHz	QPSK	41165	1RB#74	18.28	PASS
Band41	15MHz	16QAM	41165	1RB#74	18.19	PASS
Band41	15MHz	QPSK	41165	38RB#0	20.26	PASS
Band41	15MHz	16QAM	41165	38RB#0	20.23	PASS
Band41	15MHz	QPSK	41165	38RB#18	20.22	PASS
Band41	15MHz	16QAM	41165	38RB#18	20.21	PASS
Band41	15MHz	QPSK	41165	38RB#37	20.20	PASS
Band41	15MHz	16QAM	41165	38RB#37	20.20	PASS
Band41	15MHz	QPSK	40315	75RB#0	21.91	PASS
Band41	15MHz	QPSK	40740	75RB#0	21.54	PASS
Band41	15MHz	QPSK	41165	75RB#0	20.29	PASS



Band41	20MHz	QPSK	40340	1RB#0	21.99	PASS
Band41	20MHz	16QAM	40340	1RB#0	21.19	PASS
Band41	20MHz	QPSK	40340	1RB#49	22.67	PASS
Band41	20MHz	16QAM	40340	1RB#49	21.76	PASS
Band41	20MHz	QPSK	40340	1RB#99	20.83	PASS
Band41	20MHz	16QAM	40340	1RB#99	19.89	PASS
Band41	20MHz	QPSK	40740	1RB#0	21.00	PASS
Band41	20MHz	16QAM	40740	1RB#0	19.62	PASS
Band41	20MHz	QPSK	40740	1RB#49	22.37	PASS
Band41	20MHz	16QAM	40740	1RB#49	21.07	PASS
Band41	20MHz	QPSK	40740	1RB#99	22.38	PASS
Band41	20MHz	16QAM	40740	1RB#99	21.49	PASS
Band41	20MHz	QPSK	41140	1RB#0	21.96	PASS
Band41	20MHz	16QAM	41140	1RB#0	20.68	PASS
Band41	20MHz	QPSK	41140	1RB#49	21.05	PASS
Band41	20MHz	16QAM	41140	1RB#49	20.20	PASS
Band41	20MHz	QPSK	41140	1RB#99	18.36	PASS
Band41	20MHz	16QAM	41140	1RB#99	18.00	PASS
Band41	20MHz	QPSK	40340	50RB#0	22.05	PASS
Band41	20MHz	QPSK	40340	50RB#25	22.06	PASS
Band41	20MHz	QPSK	40340	50RB#50	21.79	PASS
Band41	20MHz	QPSK	40340	100RB#0	21.59	PASS
Band41	20MHz	QPSK	40740	50RB#0	21.70	PASS
Band41	20MHz	QPSK	40740	50RB#25	21.64	PASS
Band41	20MHz	QPSK	40740	50RB#50	22.82	PASS
Band41	20MHz	QPSK	40740	100RB#0	21.33	PASS
Band41	20MHz	QPSK	41140	50RB#0	21.53	PASS
Band41	20MHz	QPSK	41140	50RB#25	21.49	PASS
Band41	20MHz	QPSK	41140	50RB#50	19.82	PASS
Band41	20MHz	QPSK	41140	100RB#0	20.52	PASS



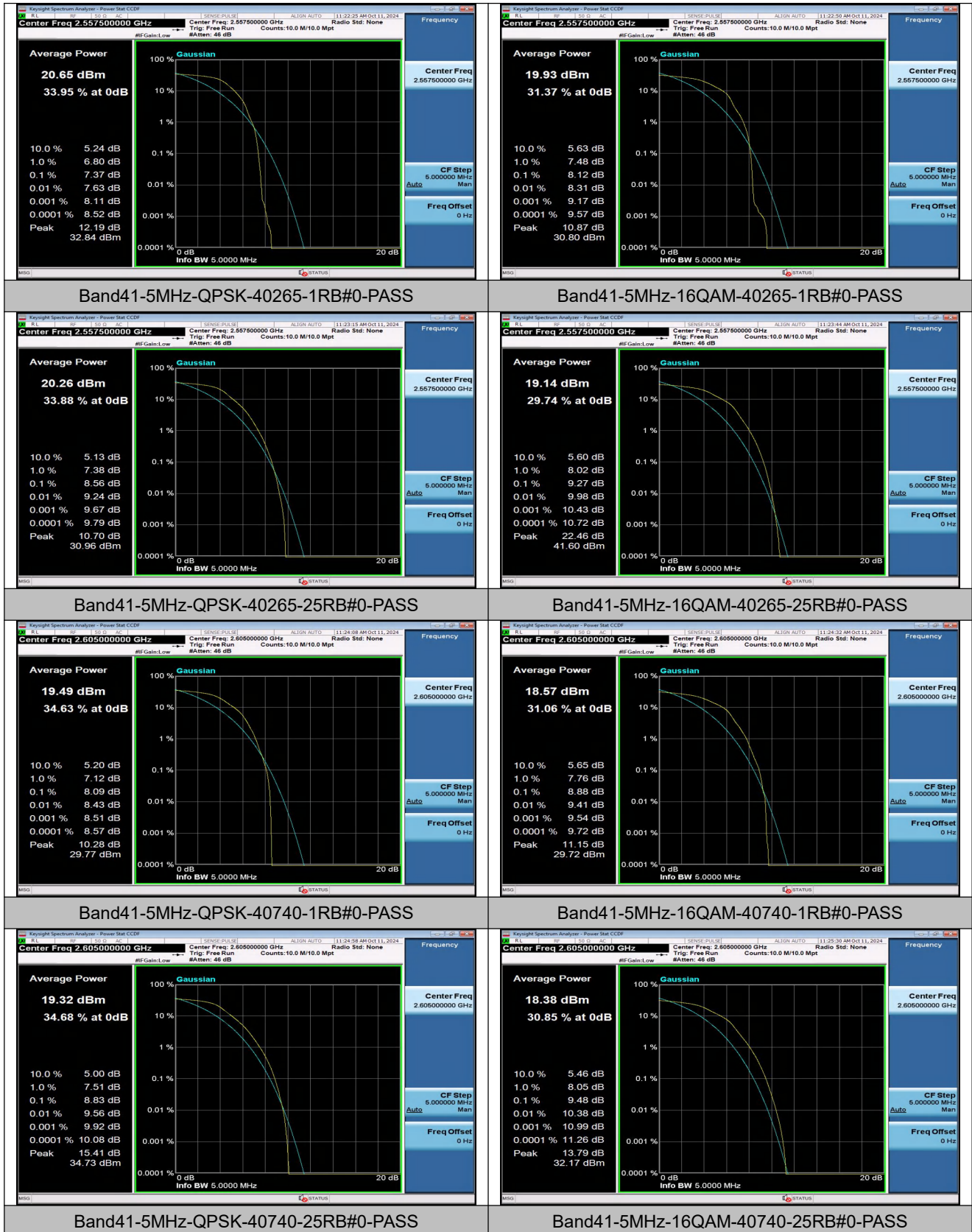
Appendix B: Peak-to-Average Ratio(CCDF)

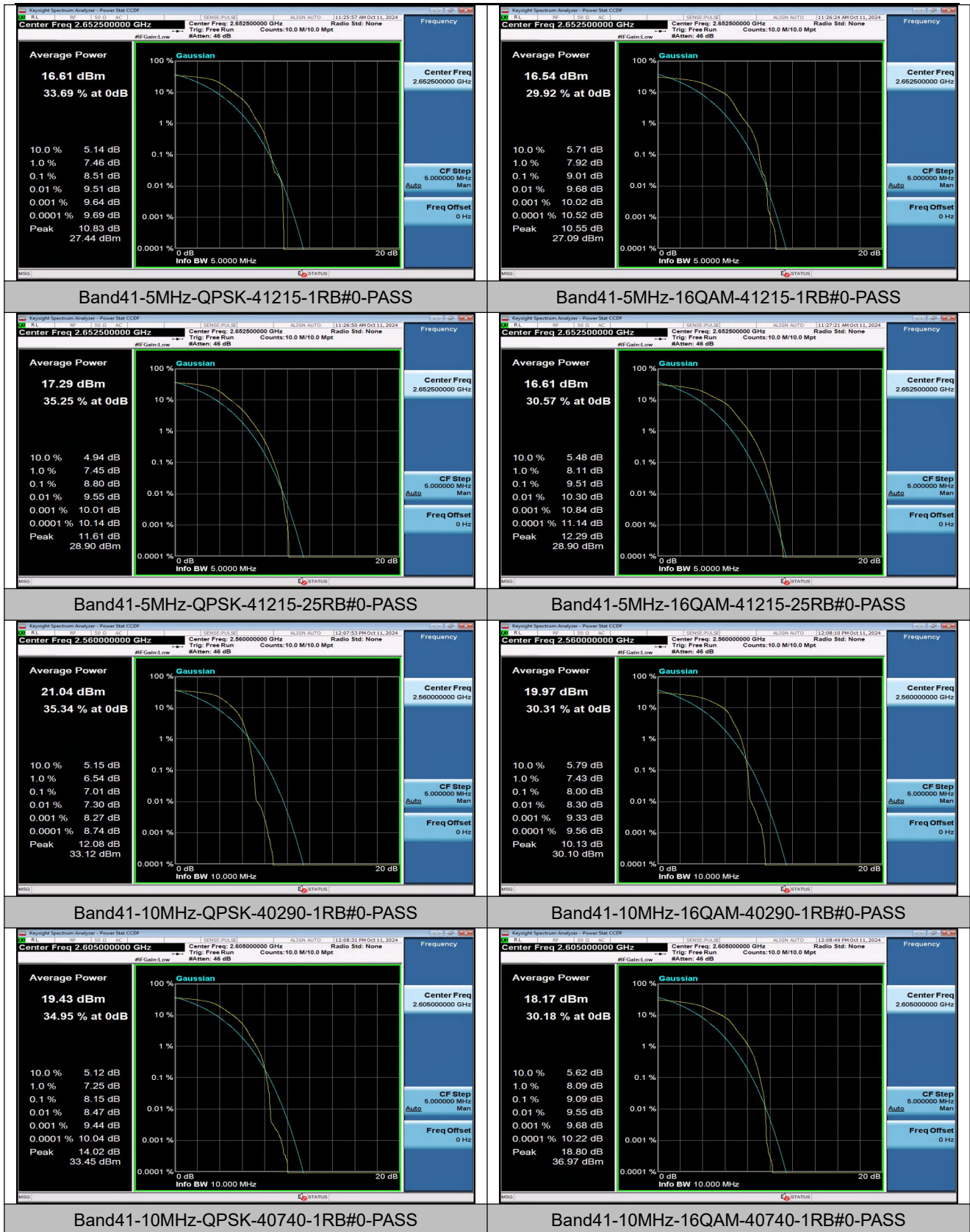
Test Result

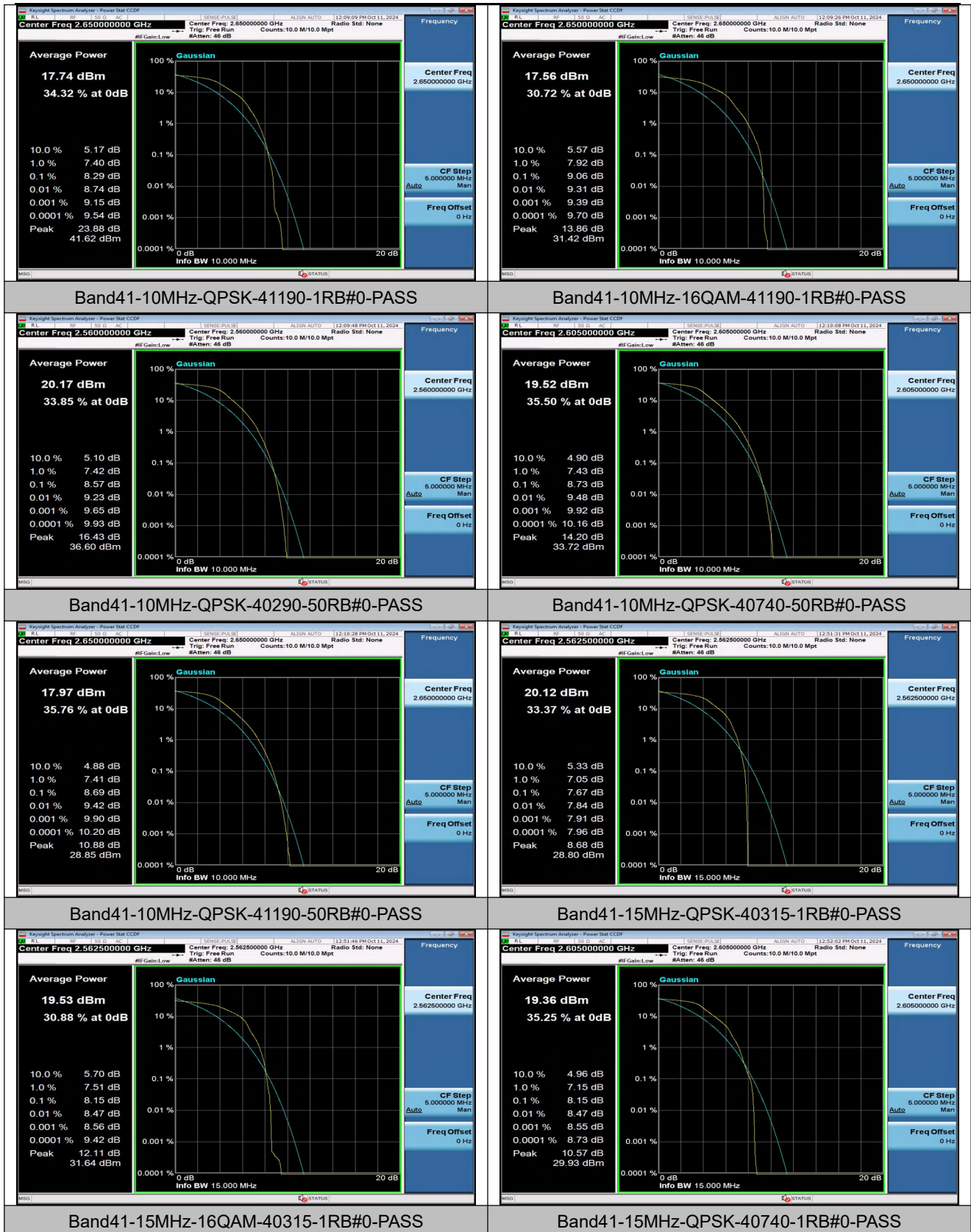
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	40265	1RB#0	7.37	13	PASS
Band41	5MHz	16QAM	40265	1RB#0	8.12	13	PASS
Band41	5MHz	QPSK	40265	25RB#0	8.56	13	PASS
Band41	5MHz	16QAM	40265	25RB#0	9.27	13	PASS
Band41	5MHz	QPSK	40740	1RB#0	8.09	13	PASS
Band41	5MHz	16QAM	40740	1RB#0	8.88	13	PASS
Band41	5MHz	QPSK	40740	25RB#0	8.83	13	PASS
Band41	5MHz	16QAM	40740	25RB#0	9.48	13	PASS
Band41	5MHz	QPSK	41215	1RB#0	8.51	13	PASS
Band41	5MHz	16QAM	41215	1RB#0	9.01	13	PASS
Band41	5MHz	QPSK	41215	25RB#0	8.80	13	PASS
Band41	5MHz	16QAM	41215	25RB#0	9.51	13	PASS
Band41	10MHz	QPSK	40290	1RB#0	7.01	13	PASS
Band41	10MHz	16QAM	40290	1RB#0	8.00	13	PASS
Band41	10MHz	QPSK	40740	1RB#0	8.15	13	PASS
Band41	10MHz	16QAM	40740	1RB#0	9.09	13	PASS
Band41	10MHz	QPSK	41190	1RB#0	8.29	13	PASS
Band41	10MHz	16QAM	41190	1RB#0	9.06	13	PASS
Band41	10MHz	QPSK	40290	50RB#0	8.57	13	PASS
Band41	10MHz	QPSK	40740	50RB#0	8.73	13	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.69	13	PASS
Band41	15MHz	QPSK	40315	1RB#0	7.67	13	PASS
Band41	15MHz	16QAM	40315	1RB#0	8.15	13	PASS
Band41	15MHz	QPSK	40740	1RB#0	8.15	13	PASS
Band41	15MHz	16QAM	40740	1RB#0	9.54	13	PASS
Band41	15MHz	QPSK	41165	1RB#0	7.81	13	PASS
Band41	15MHz	16QAM	41165	1RB#0	8.76	13	PASS
Band41	15MHz	QPSK	40315	75RB#0	8.79	13	PASS
Band41	15MHz	QPSK	40740	75RB#0	9.15	13	PASS
Band41	15MHz	QPSK	41165	75RB#0	9.21	13	PASS
Band41	20MHz	QPSK	40340	1RB#0	7.31	13	PASS
Band41	20MHz	QPSK	40740	1RB#0	8.46	13	PASS
Band41	20MHz	QPSK	41140	1RB#0	7.63	13	PASS
Band41	20MHz	QPSK	40340	100RB#0	8.57	13	PASS
Band41	20MHz	QPSK	40740	100RB#0	8.84	13	PASS
Band41	20MHz	QPSK	41140	100RB#0	8.56	13	PASS

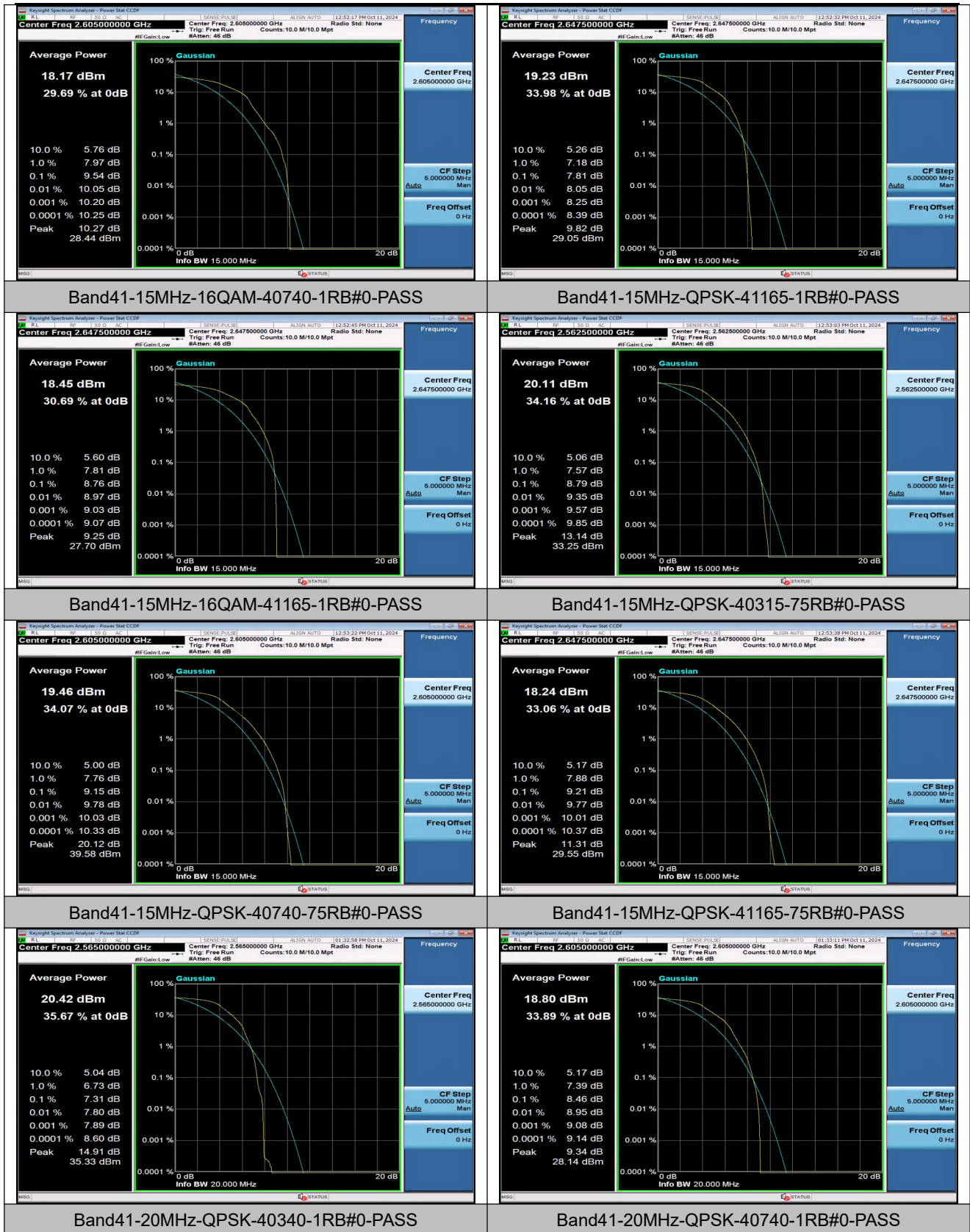


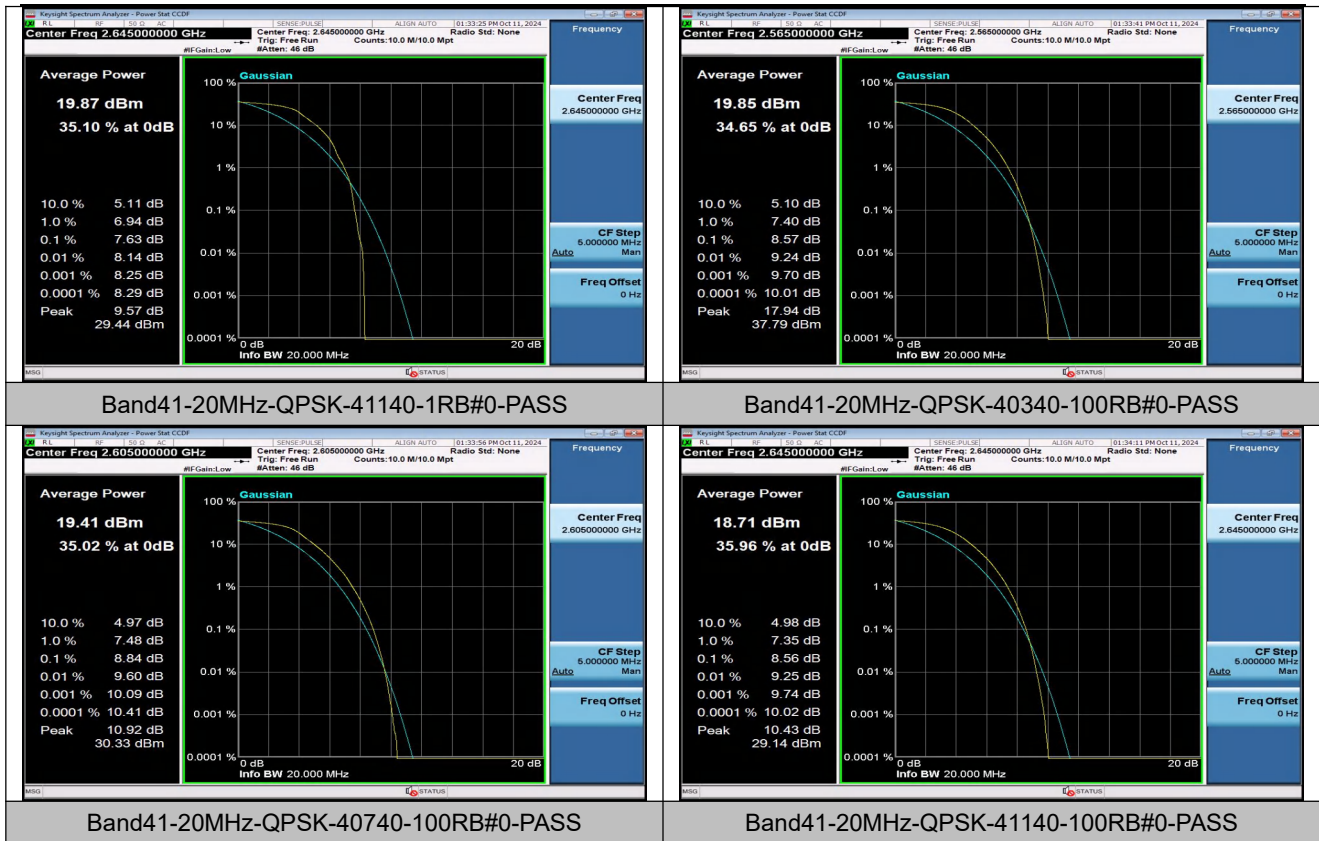
Test Graphs













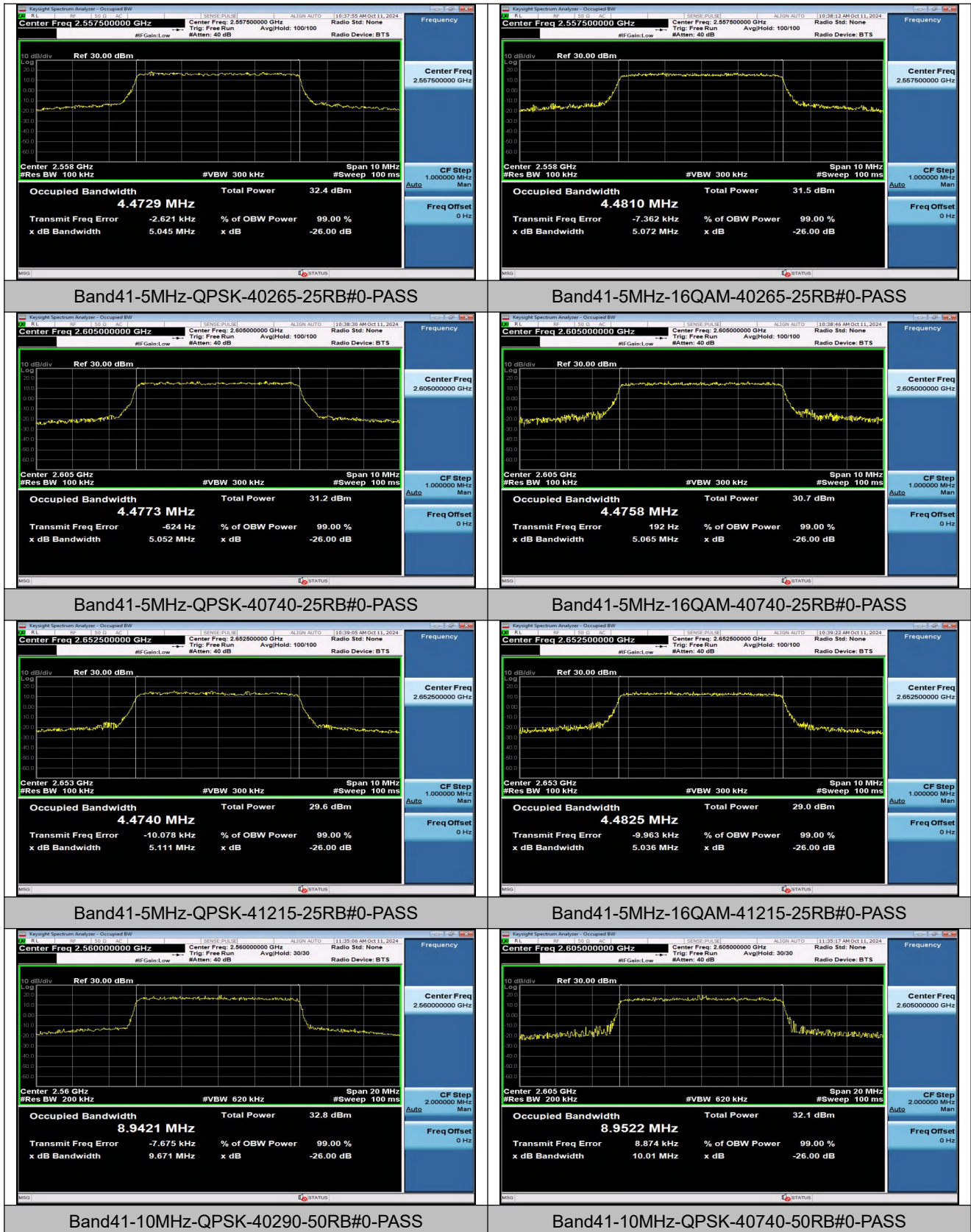
Appendix C: 26dB Bandwidth and Occupied Bandwidth

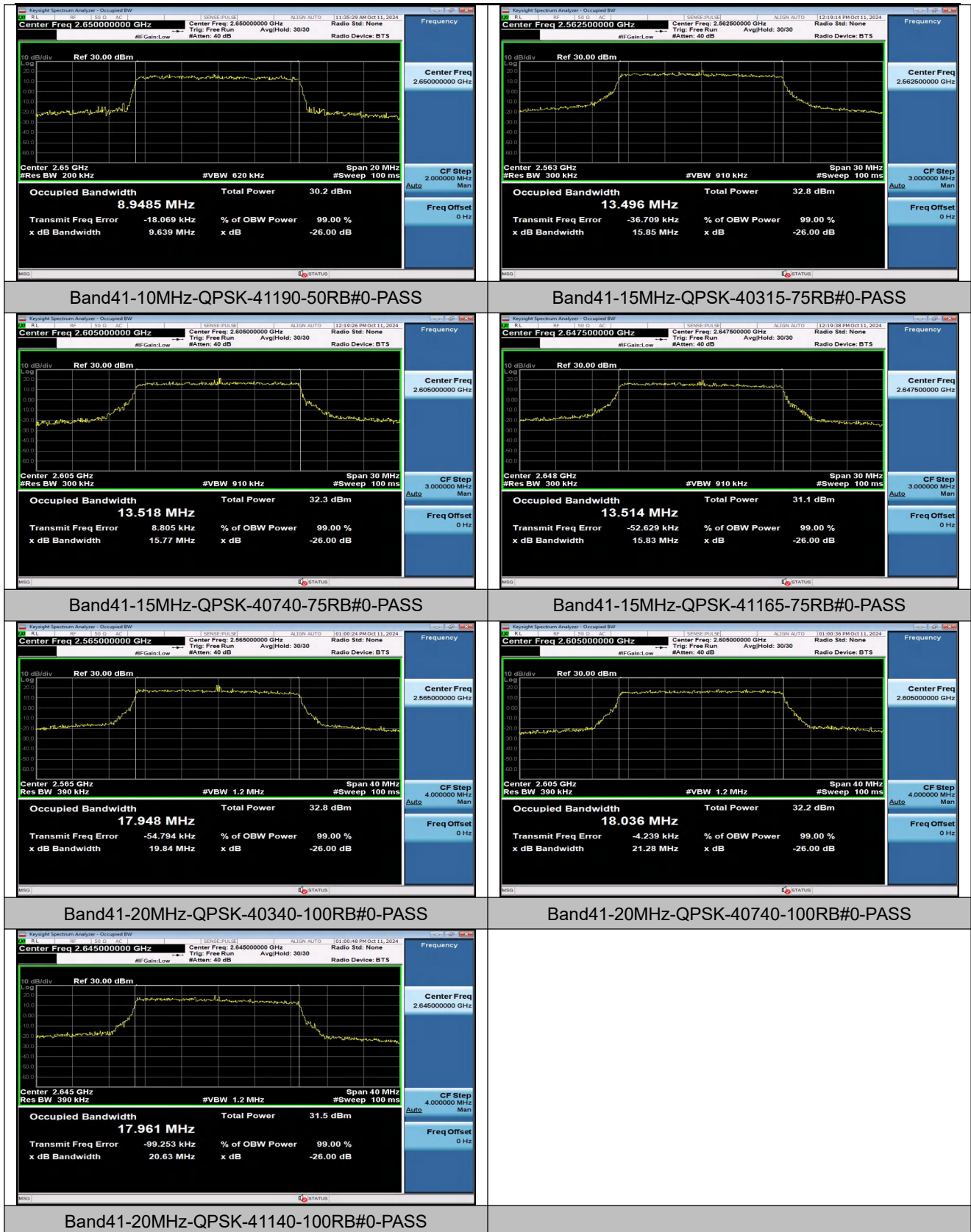
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	40265	25RB#0	4.4729	5.045	PASS
Band41	5MHz	16QAM	40265	25RB#0	4.4810	5.072	PASS
Band41	5MHz	QPSK	40740	25RB#0	4.4773	5.052	PASS
Band41	5MHz	16QAM	40740	25RB#0	4.4758	5.065	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.4740	5.111	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.4825	5.036	PASS
Band41	10MHz	QPSK	40290	50RB#0	8.9421	9.671	PASS
Band41	10MHz	QPSK	40740	50RB#0	8.9522	10.01	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.9485	9.639	PASS
Band41	15MHz	QPSK	40315	75RB#0	13.496	15.85	PASS
Band41	15MHz	QPSK	40740	75RB#0	13.518	15.77	PASS
Band41	15MHz	QPSK	41165	75RB#0	13.514	15.83	PASS
Band41	20MHz	QPSK	40340	100RB#0	17.948	19.84	PASS
Band41	20MHz	QPSK	40740	100RB#0	18.036	21.28	PASS
Band41	20MHz	QPSK	41140	100RB#0	17.961	20.63	PASS



Test Graphs







Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	40265	1RB#0	-24.12	PASS
Band41	5MHz	16QAM	40265	1RB#0	-24.45	PASS
Band41	5MHz	QPSK	40265	1RB#24	-41.36	PASS
Band41	5MHz	16QAM	40265	1RB#24	-41.41	PASS
Band41	5MHz	QPSK	40265	25RB#0	-19.28	PASS
Band41	5MHz	16QAM	40265	25RB#0	-22.35	PASS
Band41	5MHz	QPSK	41215	1RB#0	-40.41	PASS
Band41	5MHz	16QAM	41215	1RB#0	-40.37	PASS
Band41	5MHz	QPSK	41215	1RB#24	-39.99	PASS
Band41	5MHz	16QAM	41215	1RB#24	-39.92	PASS
Band41	5MHz	QPSK	41215	25RB#0	-36.35	PASS
Band41	5MHz	16QAM	41215	25RB#0	-37.13	PASS
Band41	10MHz	QPSK	40290	1RB#0	-41.26	PASS
Band41	10MHz	16QAM	40290	1RB#0	-41.32	PASS
Band41	10MHz	QPSK	40290	1RB#49	-41.26	PASS
Band41	10MHz	16QAM	40290	1RB#49	-41.31	PASS
Band41	10MHz	QPSK	41190	1RB#0	-40.27	PASS
Band41	10MHz	16QAM	41190	1RB#0	-40.23	PASS
Band41	10MHz	QPSK	41190	1RB#49	-40.33	PASS
Band41	10MHz	16QAM	41190	1RB#49	-40.31	PASS
Band41	10MHz	QPSK	40290	50RB#0	-19.68	PASS
Band41	10MHz	QPSK	41190	50RB#0	-37.73	PASS
Band41	15MHz	QPSK	40315	1RB#0	-41.18	PASS
Band41	15MHz	16QAM	40315	1RB#0	-41.33	PASS
Band41	15MHz	QPSK	40315	1RB#74	-28.83	PASS
Band41	15MHz	16QAM	40315	1RB#74	-41.30	PASS
Band41	15MHz	QPSK	41165	1RB#0	-40.44	PASS
Band41	15MHz	16QAM	41165	1RB#0	-40.52	PASS
Band41	15MHz	QPSK	41165	1RB#74	-39.96	PASS
Band41	15MHz	16QAM	41165	1RB#74	-39.84	PASS
Band41	15MHz	QPSK	40315	75RB#0	-19.37	PASS
Band41	15MHz	QPSK	41165	75RB#0	-37.12	PASS
Band41	20MHz	QPSK	40340	1RB#0	-41.20	PASS
Band41	20MHz	16QAM	40340	1RB#0	-41.23	PASS
Band41	20MHz	QPSK	40340	1RB#99	-25.04	PASS
Band41	20MHz	16QAM	40340	1RB#99	-27.74	PASS