

FCC Appendix RF Test Data for-LTE Band 5

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

EUT : GPS TRACKER

Model Number : Q8

FCC ID : 2BRNM-Q8

Report No. : CTA25073100101

Reviewed By : Eric Wang

Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.09	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.19	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.04	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	24.02	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.83	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.79	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.96	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.98	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.95	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.97	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.99	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.24	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.15	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.16	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.80	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.05	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.98	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.91	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.90	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.82	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.90	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.96	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.91	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.11	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.00	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.86	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	23.14	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.99	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.46	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.59	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.85	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.01	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.18	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.96	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.90	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.82	PASS

Band5	1.4MHz	16QAM	20643	1RB#2	23.12	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.78	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.65	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.37	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.49	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.04	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.60	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.81	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.04	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.02	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.11	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.08	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.99	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.98	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.18	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.04	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.26	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.20	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.19	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.21	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.76	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.98	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.85	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.93	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.05	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.06	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.99	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.14	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.03	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.91	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.78	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.86	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.21	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.02	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.35	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.58	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.30	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.99	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.41	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.40	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.25	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.95	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.23	PASS

Band5	3MHz	16QAM	20635	1RB#14	23.49	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.97	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.99	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.91	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.95	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.93	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.14	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.85	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.07	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.06	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.07	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.05	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.77	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.99	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.25	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.21	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.13	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.18	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.21	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.28	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.96	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.65	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.21	PASS
Band5	5MHz	QPSK	20625	12RB#6	23.12	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.07	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.18	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.91	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.64	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.89	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.84	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.83	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.04	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.03	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.11	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.35	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.13	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.16	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.11	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.15	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.37	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.82	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.55	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.44	PASS

Band5	5MHz	16QAM	20625	12RB#0	22.23	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.05	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.98	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.34	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.93	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.89	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.03	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.20	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.18	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.26	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.24	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.93	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.18	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.20	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.29	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.30	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.32	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.28	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.06	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.53	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.06	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.27	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.35	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.21	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.20	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.03	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.41	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.24	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.18	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.22	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.18	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.96	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.08	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.04	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.42	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.34	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.47	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.80	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.94	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.34	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.38	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.49	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.16	PASS

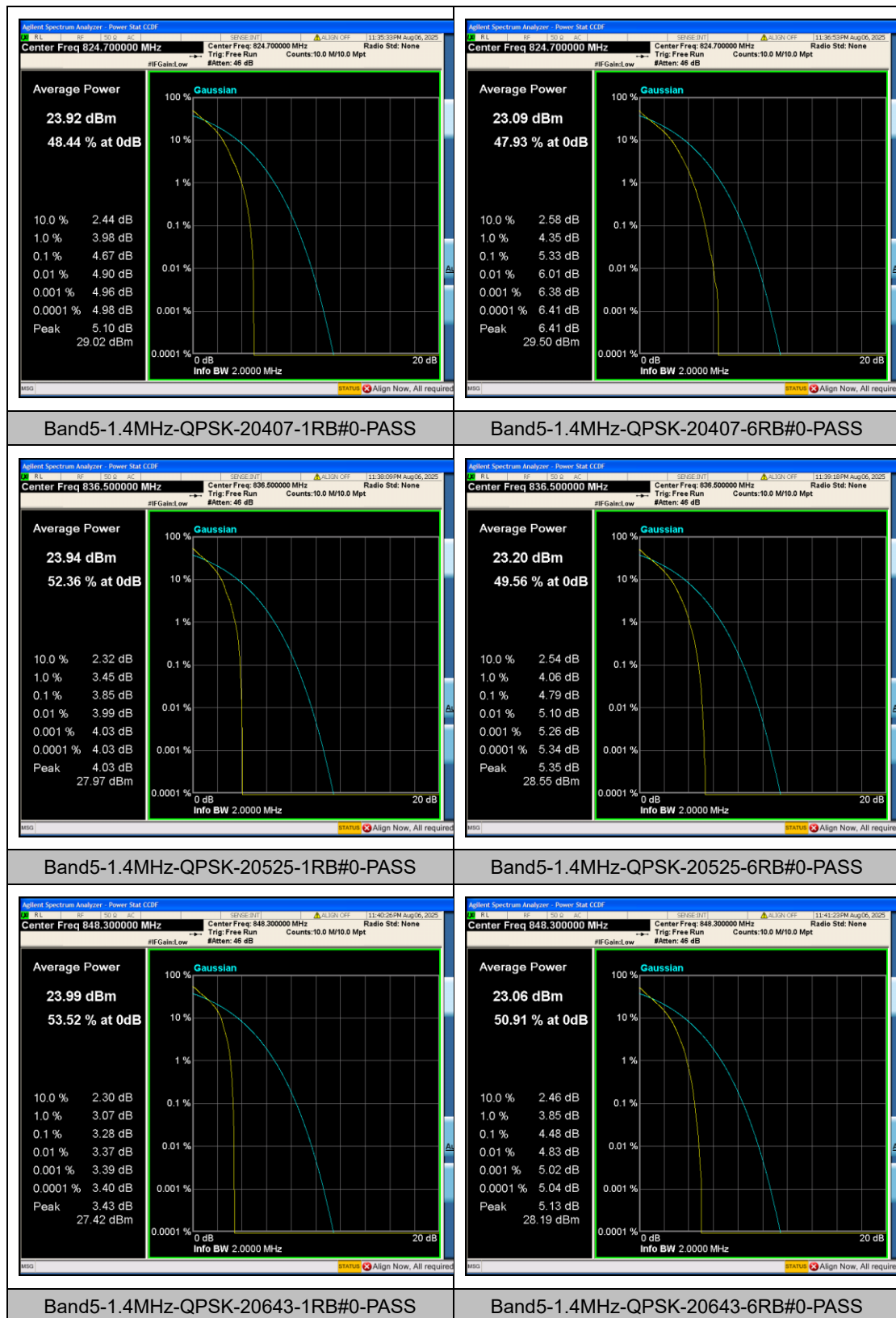
Appendix B: Peak-to-Average Ratio(CCDF)

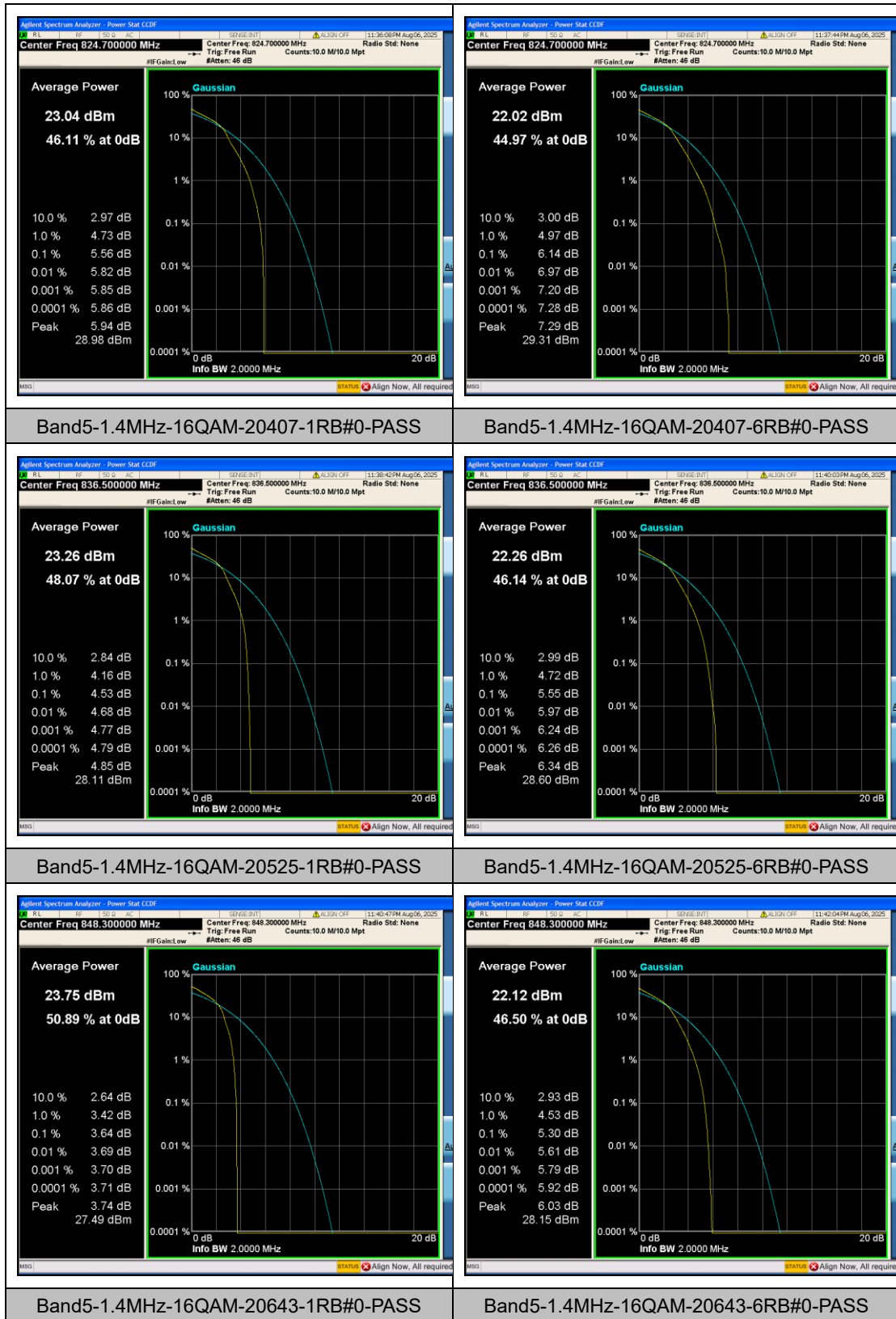
Test Result

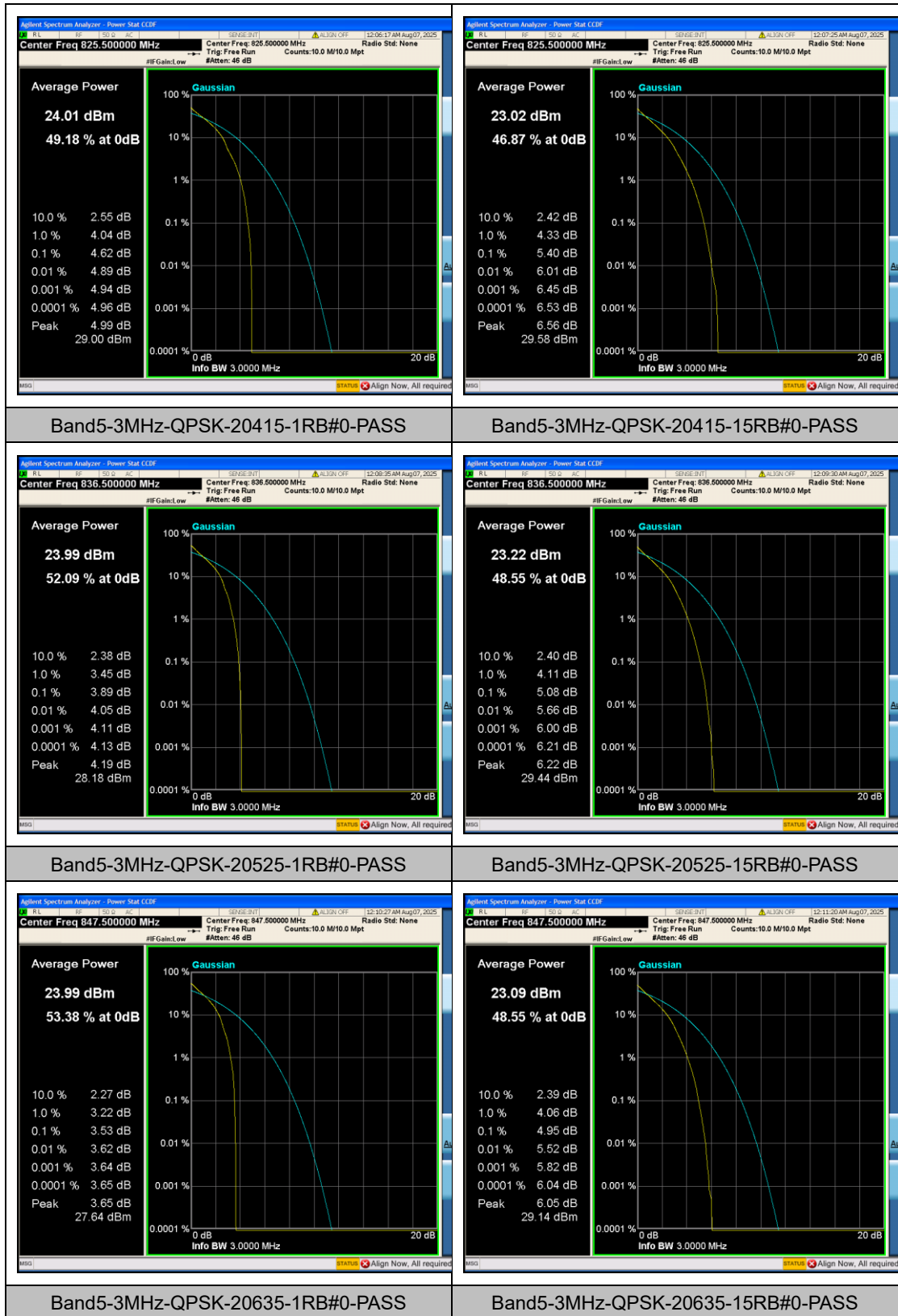
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.67	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.33	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3.85	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.79	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.28	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.48	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.56	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.14	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	4.53	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.55	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	3.64	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.30	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.62	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.40	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	3.89	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.08	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.53	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.95	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.58	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.24	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	4.70	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.91	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.42	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.71	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.75	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.40	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	3.80	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.05	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	3.79	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.97	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.54	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.11	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	4.49	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.79	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.51	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.67	13	PASS

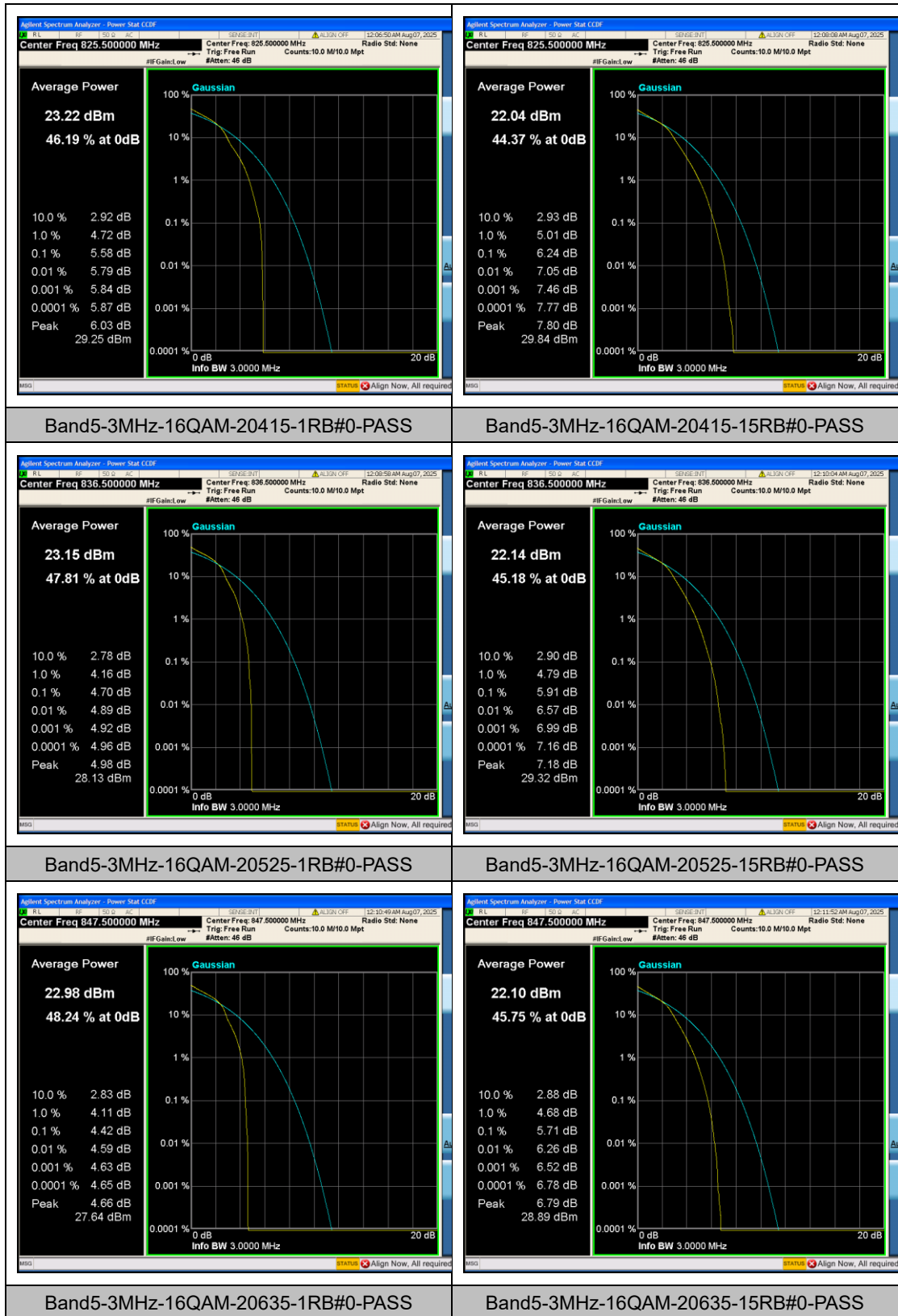
Band5	10MHz	QPSK	20450	1RB#0	4.69	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.20	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	3.94	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.99	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.03	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.01	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.57	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	4.47	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.83	13	PASS

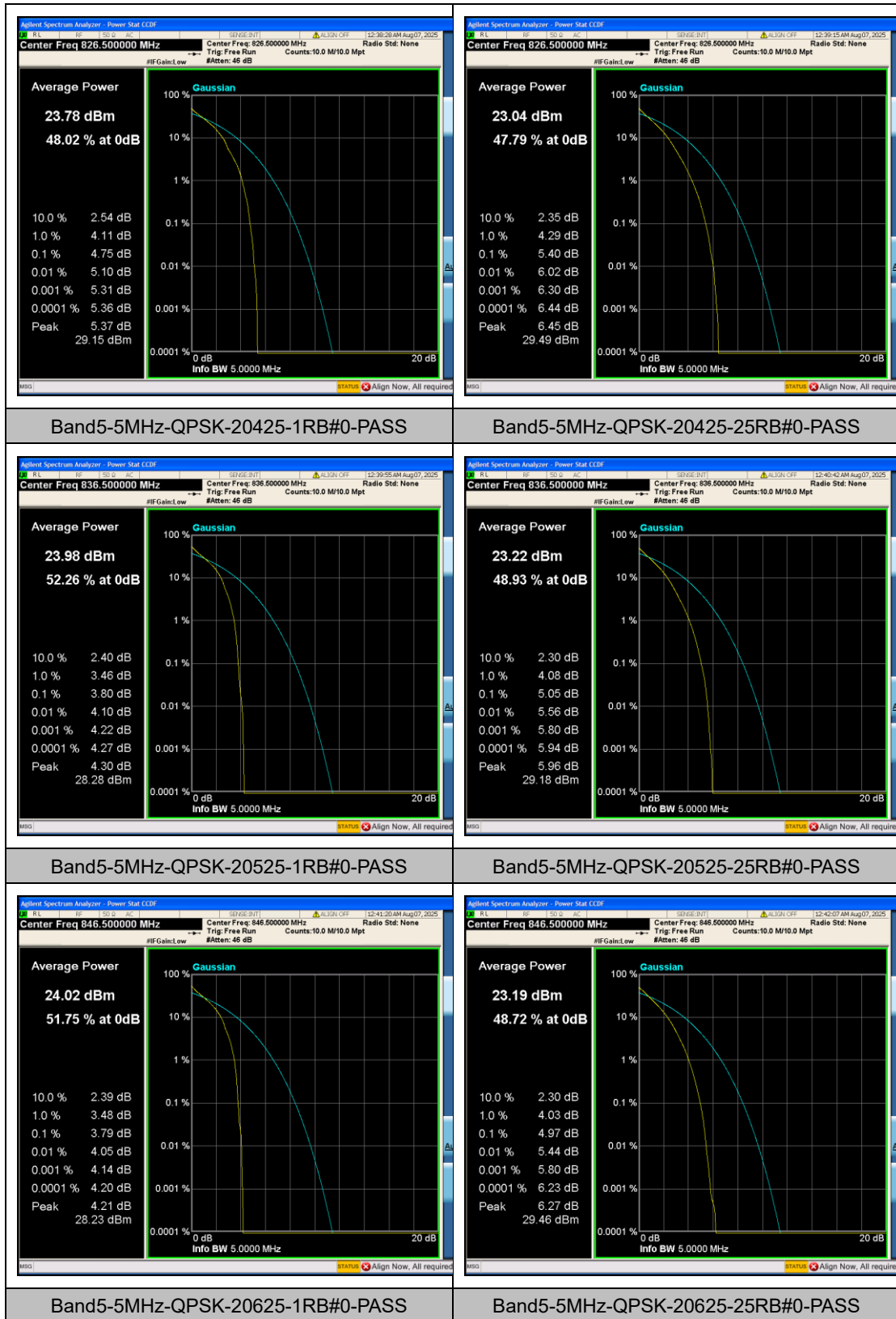
Test Graphs

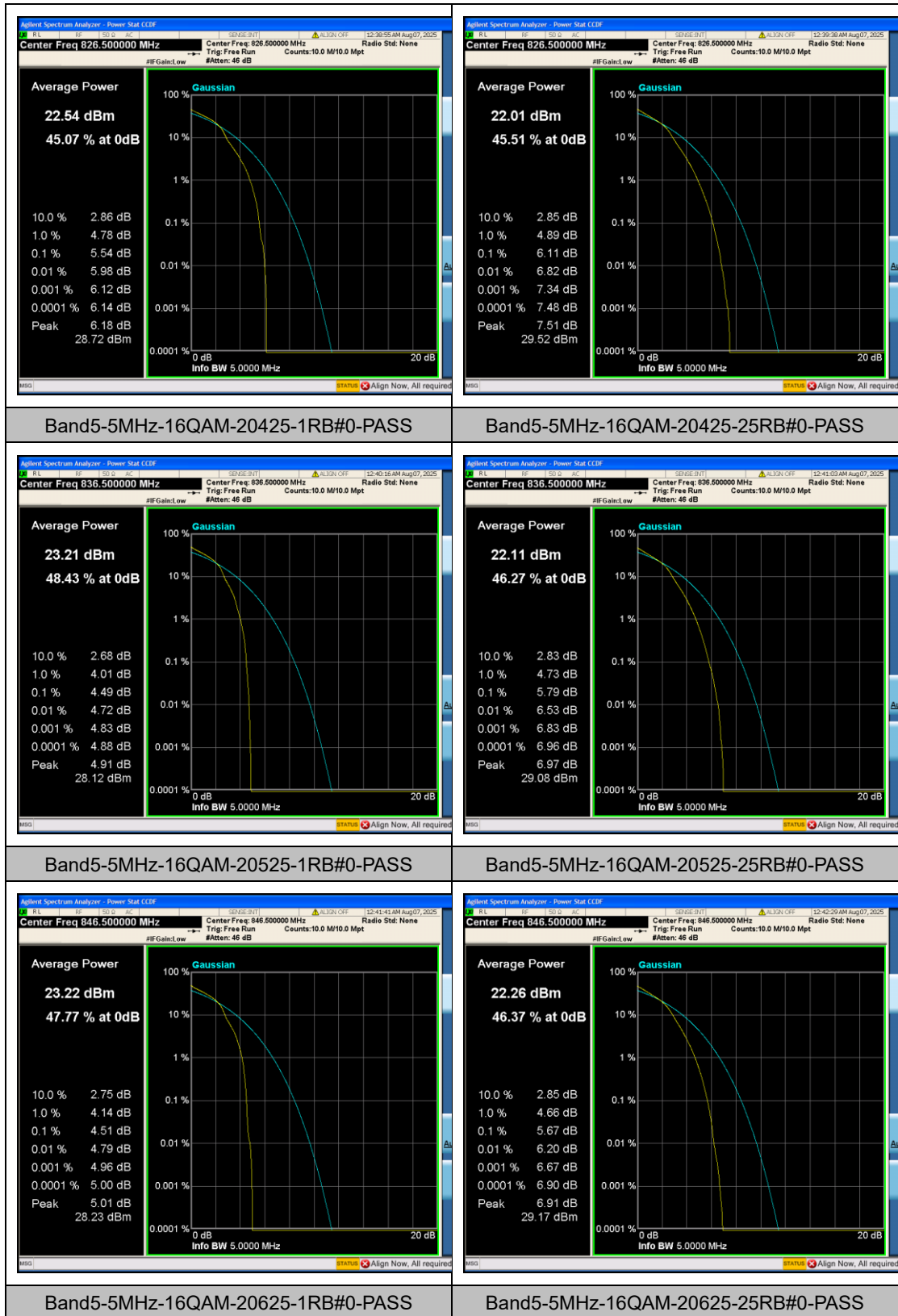


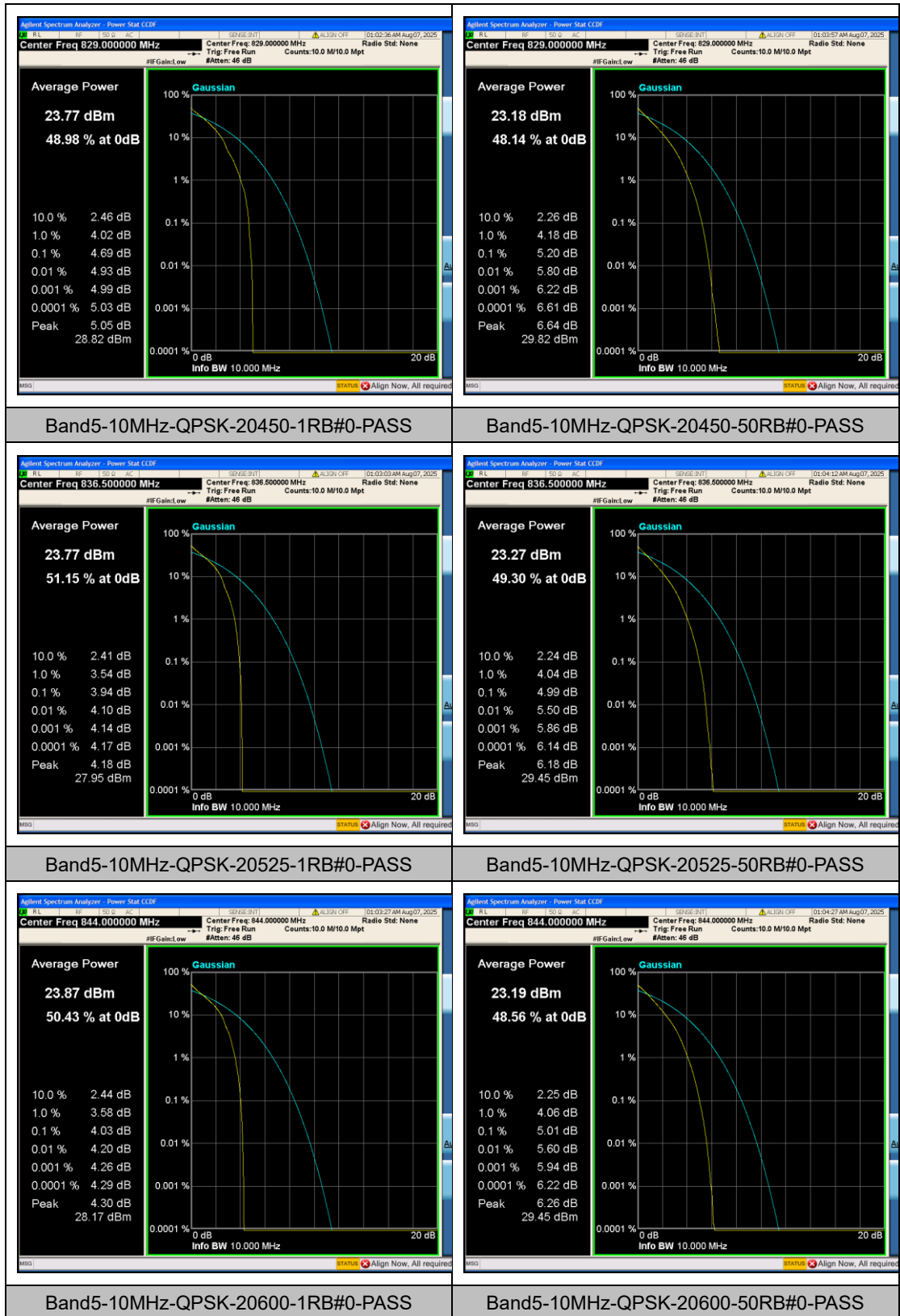


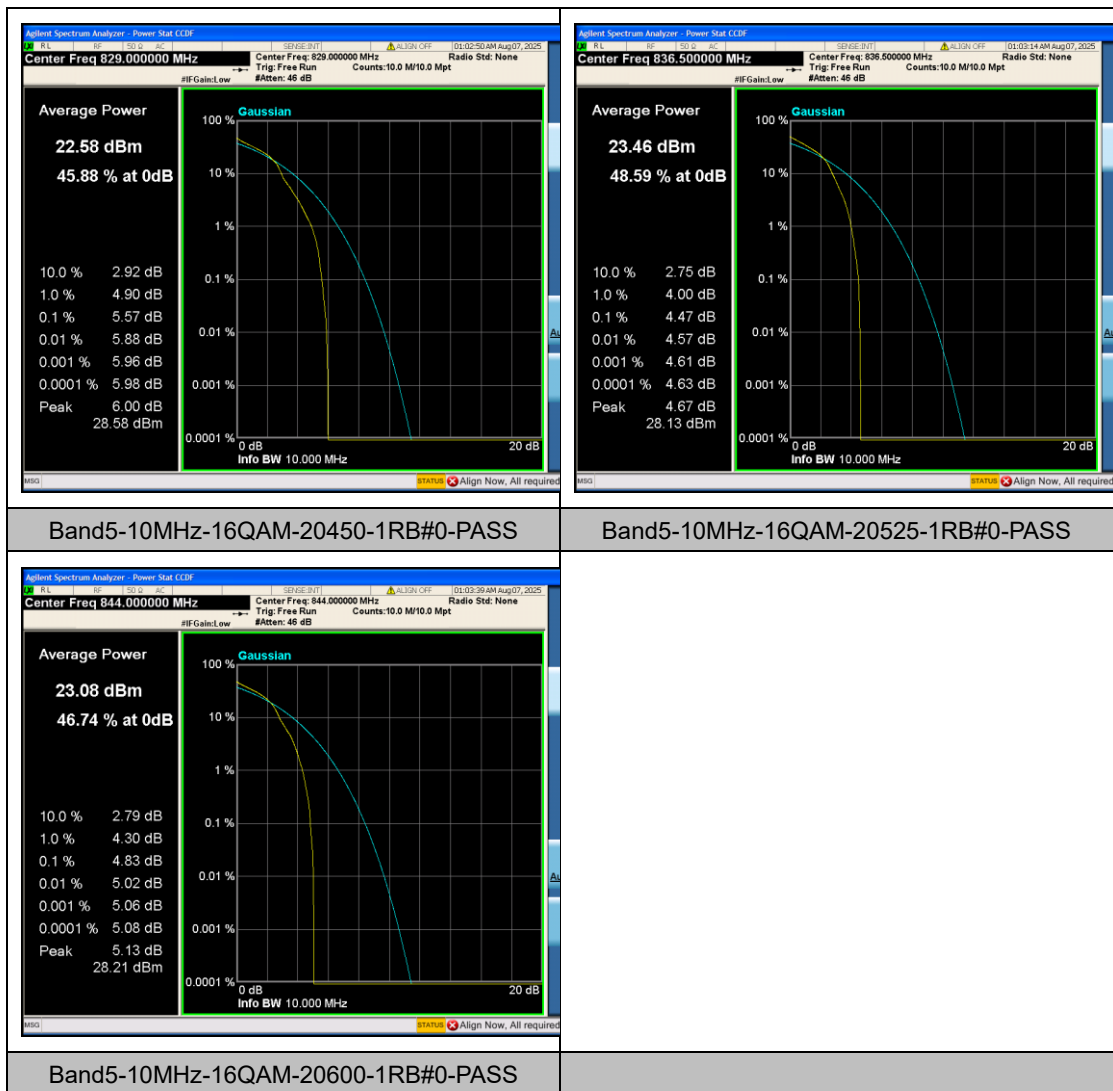












Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0935	1.291	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.1003	1.308	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0945	1.302	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0967	1.288	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0912	1.278	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1018	1.289	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6995	2.965	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6955	2.973	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7048	2.979	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6889	2.960	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6939	2.966	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7001	2.968	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4895	4.981	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5015	4.986	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5061	5.013	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5046	5.014	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5112	5.028	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4970	4.969	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9785	9.910	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9674	9.914	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9674	9.869	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.9647	5.822	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.9922	5.855	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.9970	5.834	PASS

Test Graphs

