

FCC LTE Band Test Data

FCC ID : 2BHFT-T29-CEV

Company: : HANGZHOU HUIJIECHELIAN TECHNOLOGY CO., LTD

EUT : Vehicle Terminal T-BOX

Model Number : T29-CEV

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	23.12	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.36	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.43	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.51	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.44	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.70	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.68	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.49	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.46	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.36	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.26	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.25	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.46	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.67	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.54	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.26	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.13	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.31	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.34	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.32	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.48	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.16	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.29	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.37	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.32	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.40	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.57	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.85	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.31	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.49	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.41	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.14	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.12	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.76	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.38	PASS

Band5	1.4MHz	16QAM	20643	1RB#2	21.28	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.19	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.19	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.19	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.19	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.55	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.49	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.55	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.40	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.67	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.66	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.96	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.72	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.72	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.37	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.68	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.71	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.61	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.71	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.97	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.63	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.34	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.01	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.94	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.58	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.66	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.46	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.65	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.62	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.69	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.68	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.03	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.75	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.50	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.56	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.57	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.79	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.79	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.72	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.80	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.90	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.67	PASS

Band5	3MHz	16QAM	20635	1RB#14	21.43	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.07	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.98	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.67	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.72	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.59	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.61	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.16	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.82	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.81	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.69	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.60	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.79	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.69	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.79	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.70	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.73	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.89	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.77	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.82	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.91	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.47	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.07	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.11	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.82	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.75	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.43	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.54	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.02	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.87	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.90	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.75	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.63	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.55	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.75	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.72	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.78	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.78	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.91	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.84	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.66	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.84	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.32	PASS

Band5	5MHz	16QAM	20625	12RB#0	21.08	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.17	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.91	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.84	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.67	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.52	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.99	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.03	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.09	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.67	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.70	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.19	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.74	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.08	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.18	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.22	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.23	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.26	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.53	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.79	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.42	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.90	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.90	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.04	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.04	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.68	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.60	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.07	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.09	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.09	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.71	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.10	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.95	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.25	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.23	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.24	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.28	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.52	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.86	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.50	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.92	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.91	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.10	PASS

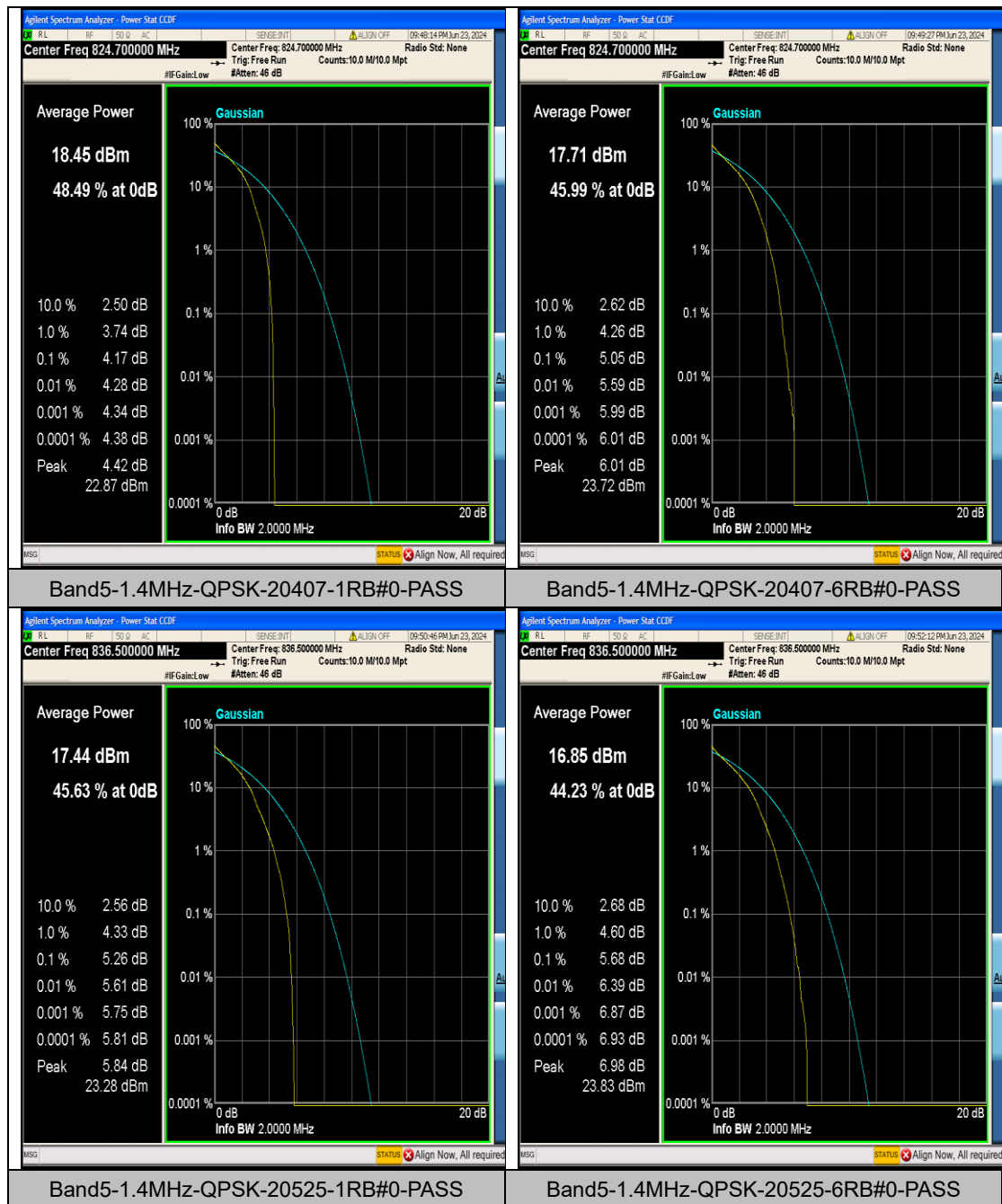
Appendix B: Peak-to-Average Ratio(CCDF)

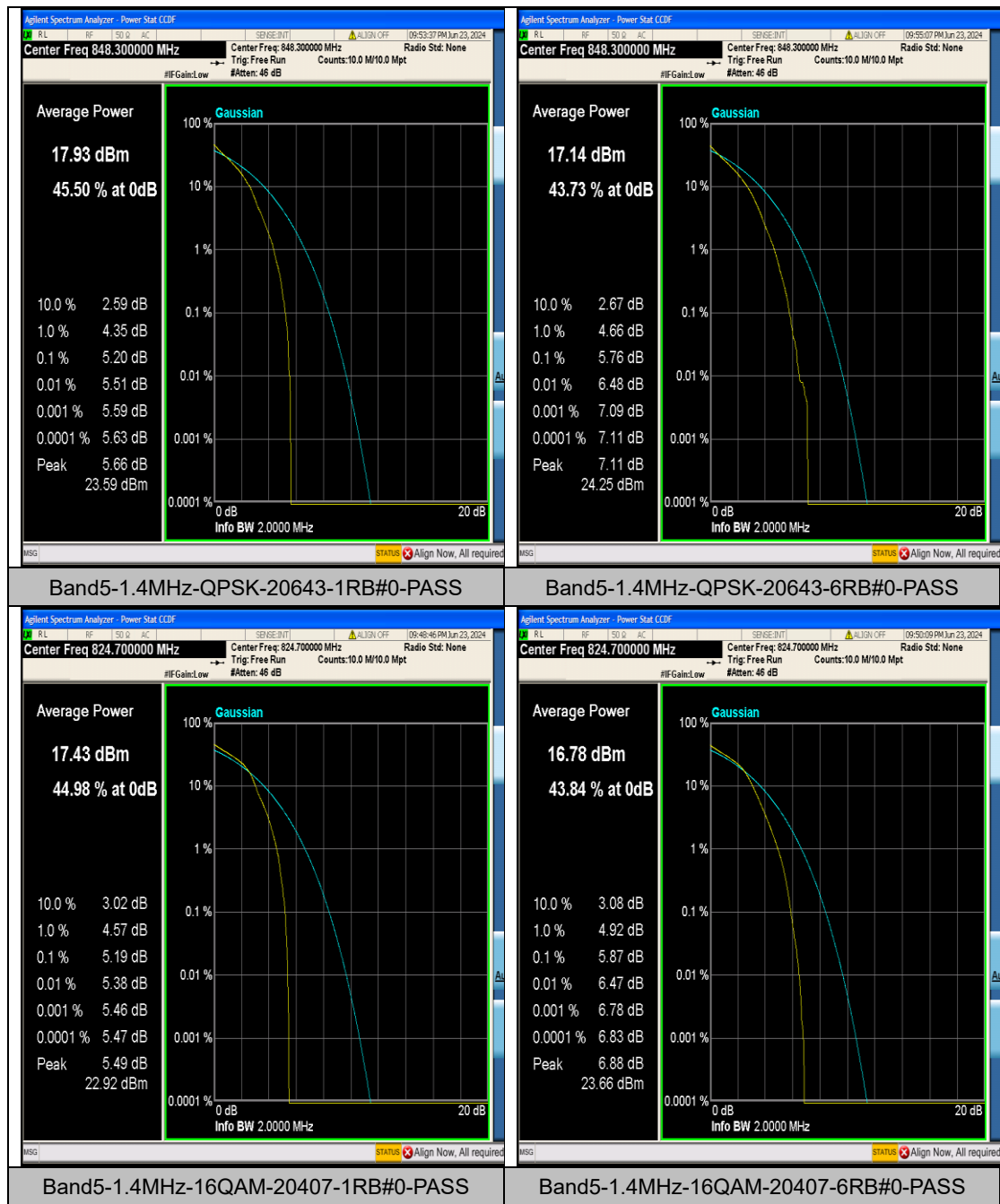
Test Result

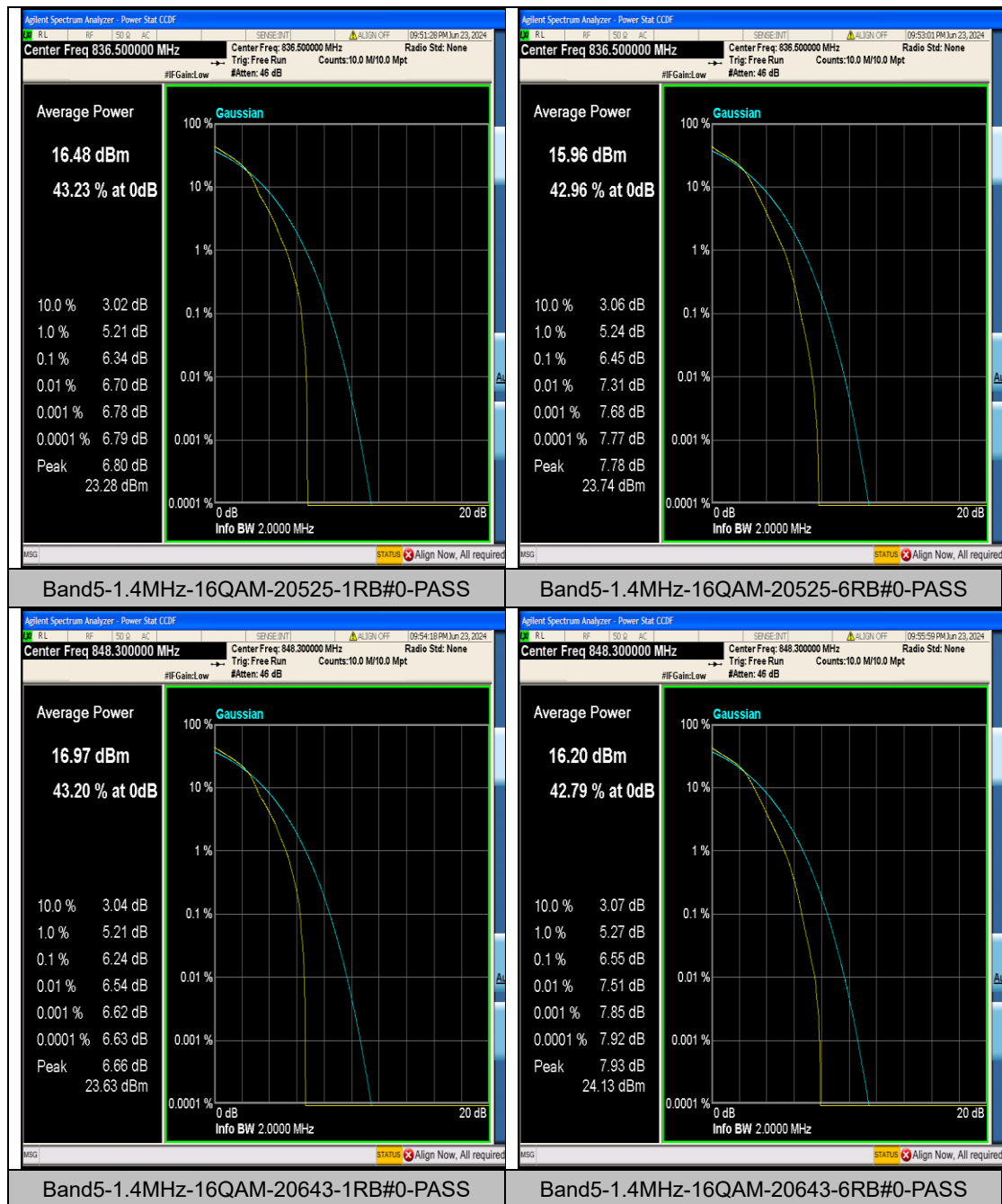
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.17	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.05	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	5.26	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.68	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	5.20	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.76	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.19	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.87	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	6.34	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.45	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	6.24	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.55	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.26	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.43	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	5.35	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.73	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.70	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.69	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.09	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.20	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	6.18	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.50	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.51	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.47	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.30	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.51	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.53	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.66	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.48	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.55	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.05	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.19	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	6.07	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.39	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.24	13	PASS

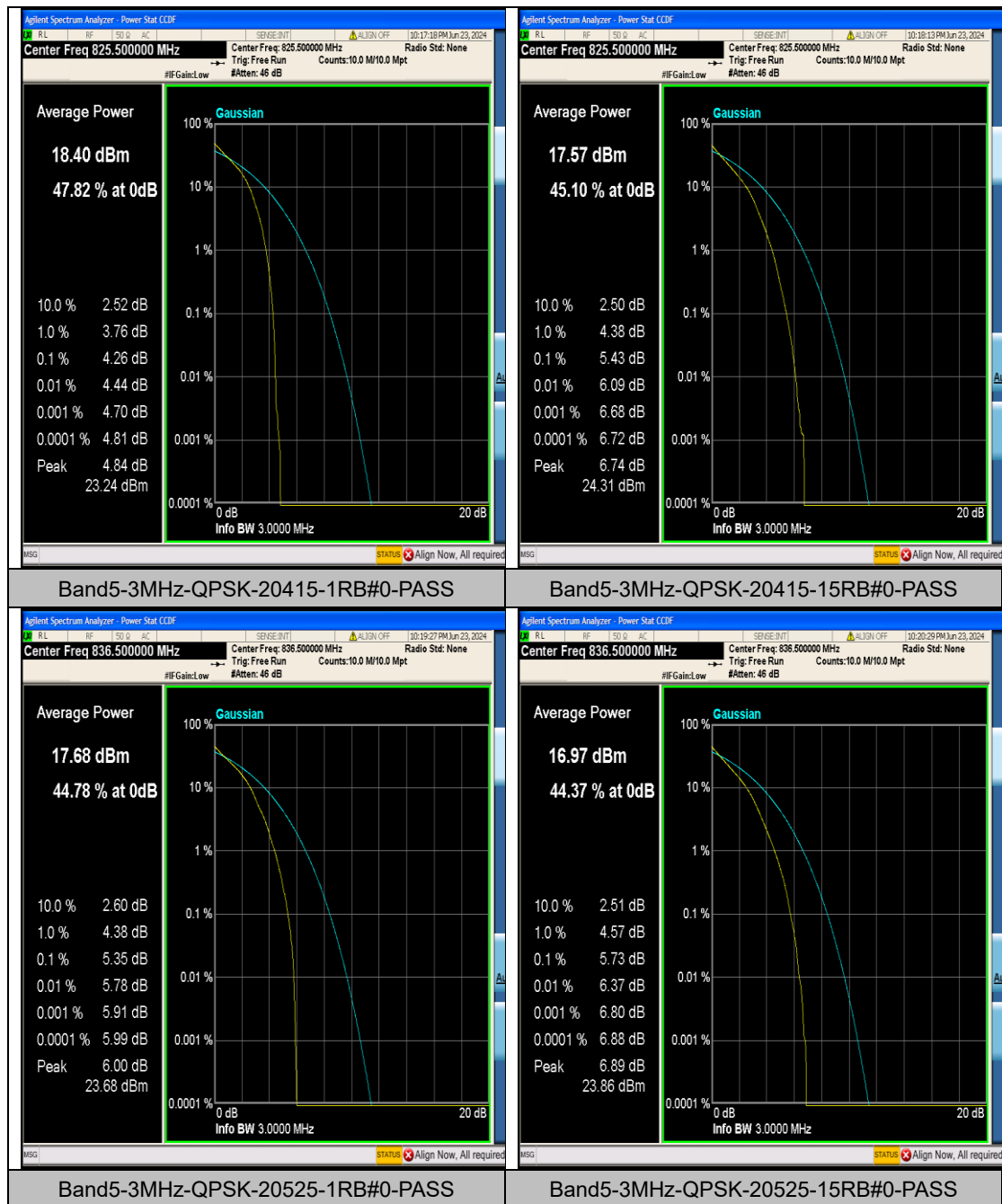
Band5	5MHz	16QAM	20625	25RB#0	6.26	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.13	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.41	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.45	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.65	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.42	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.35	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	4.95	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	6.24	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.28	13	PASS

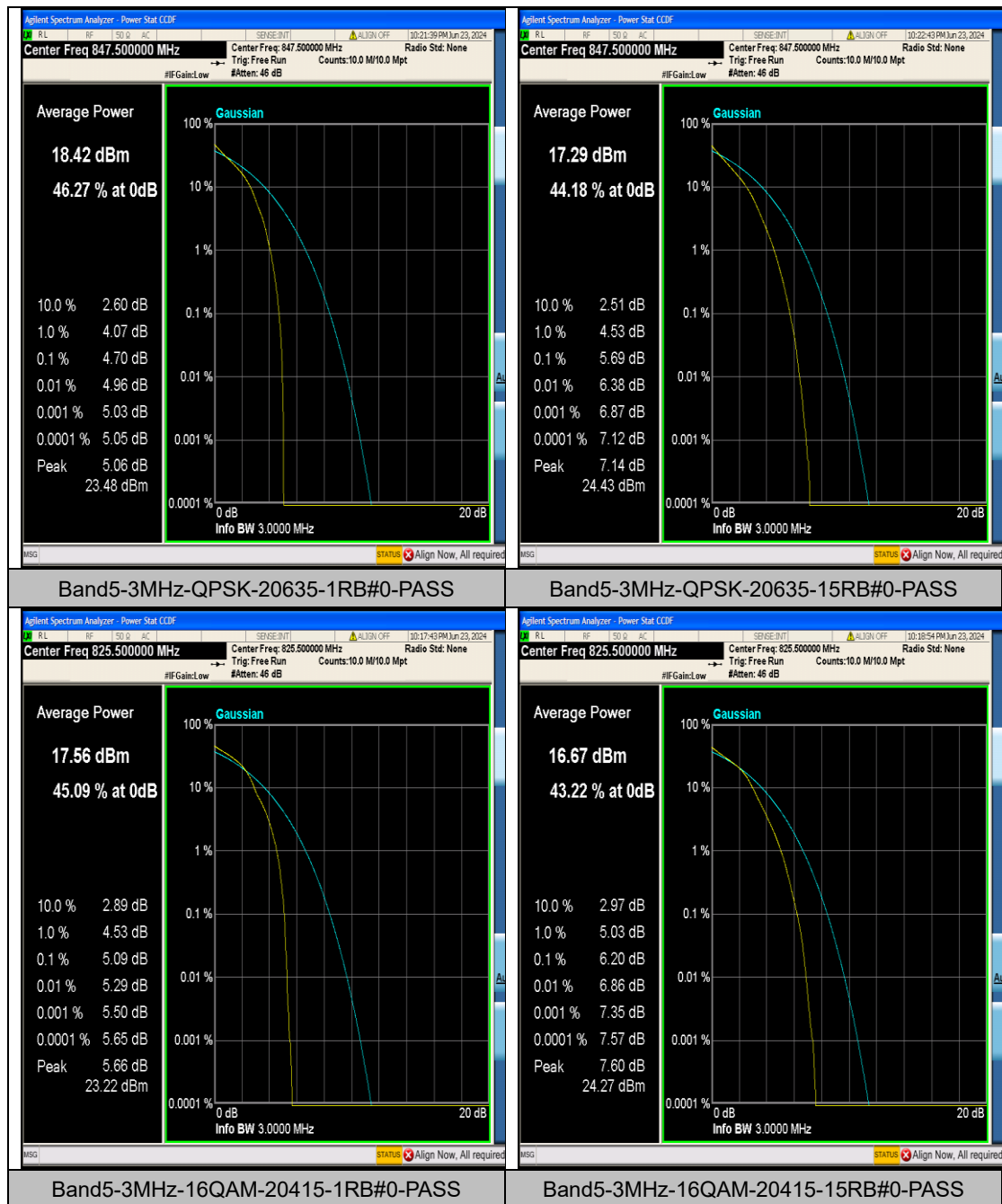
Test Graphs

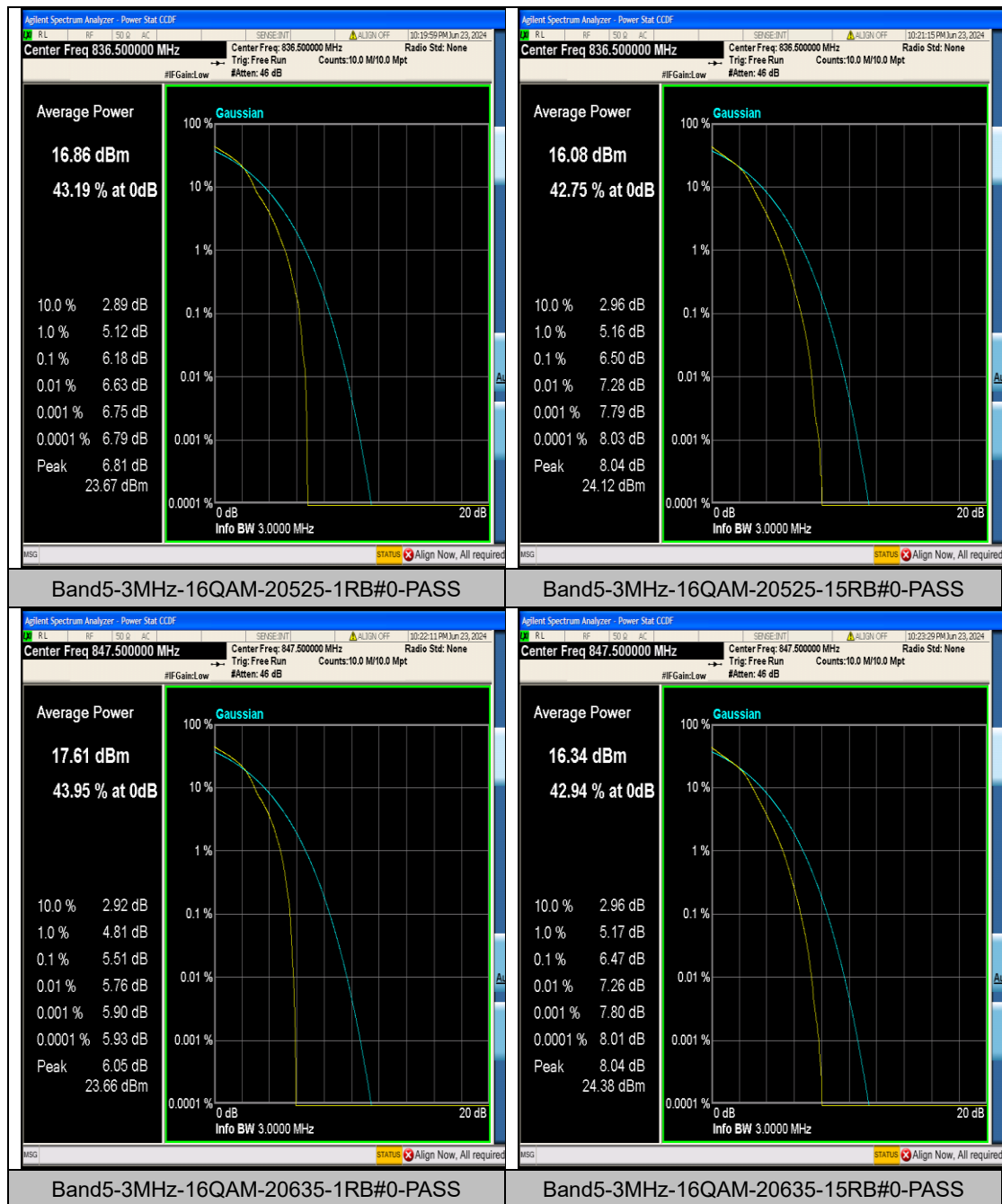


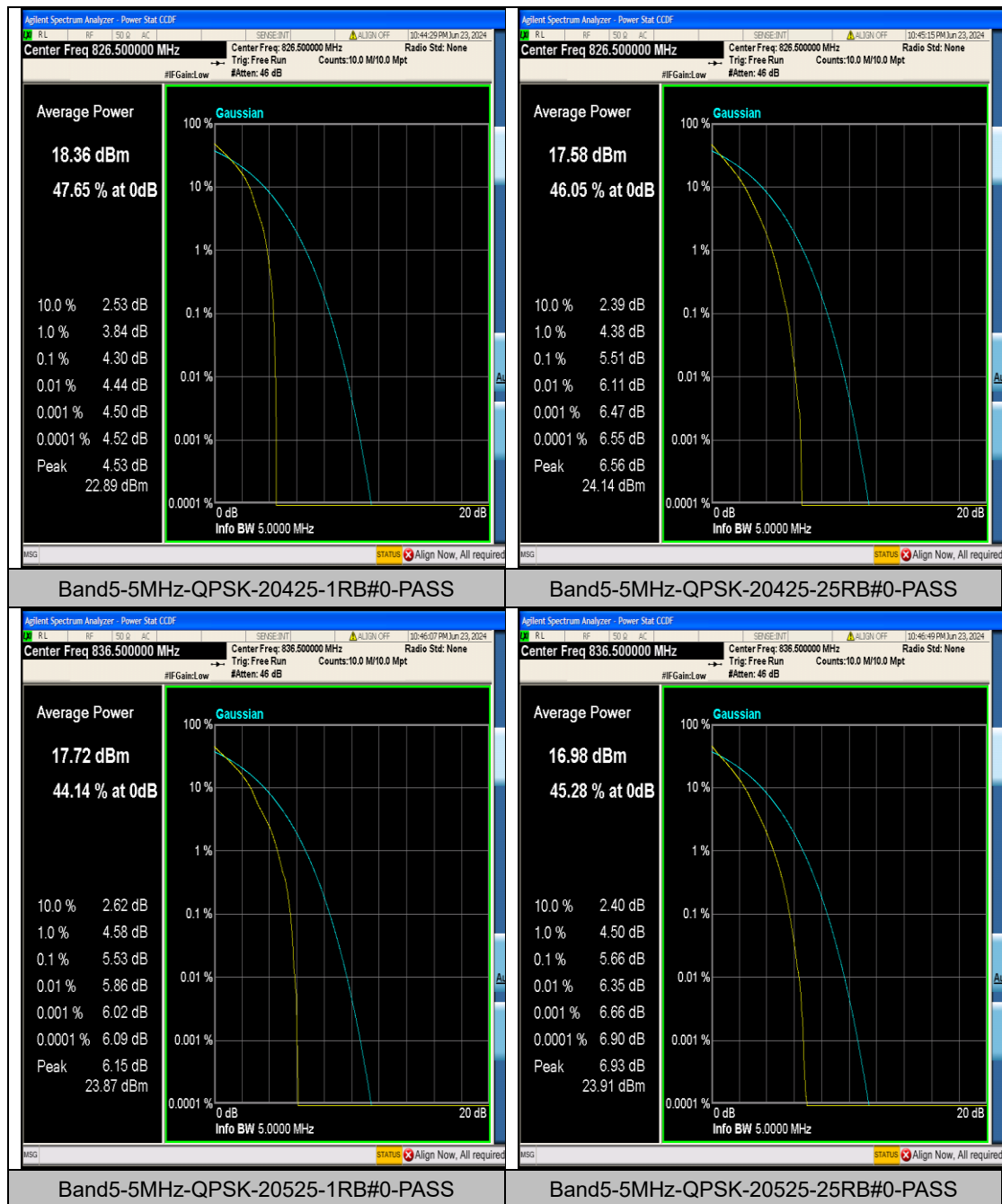


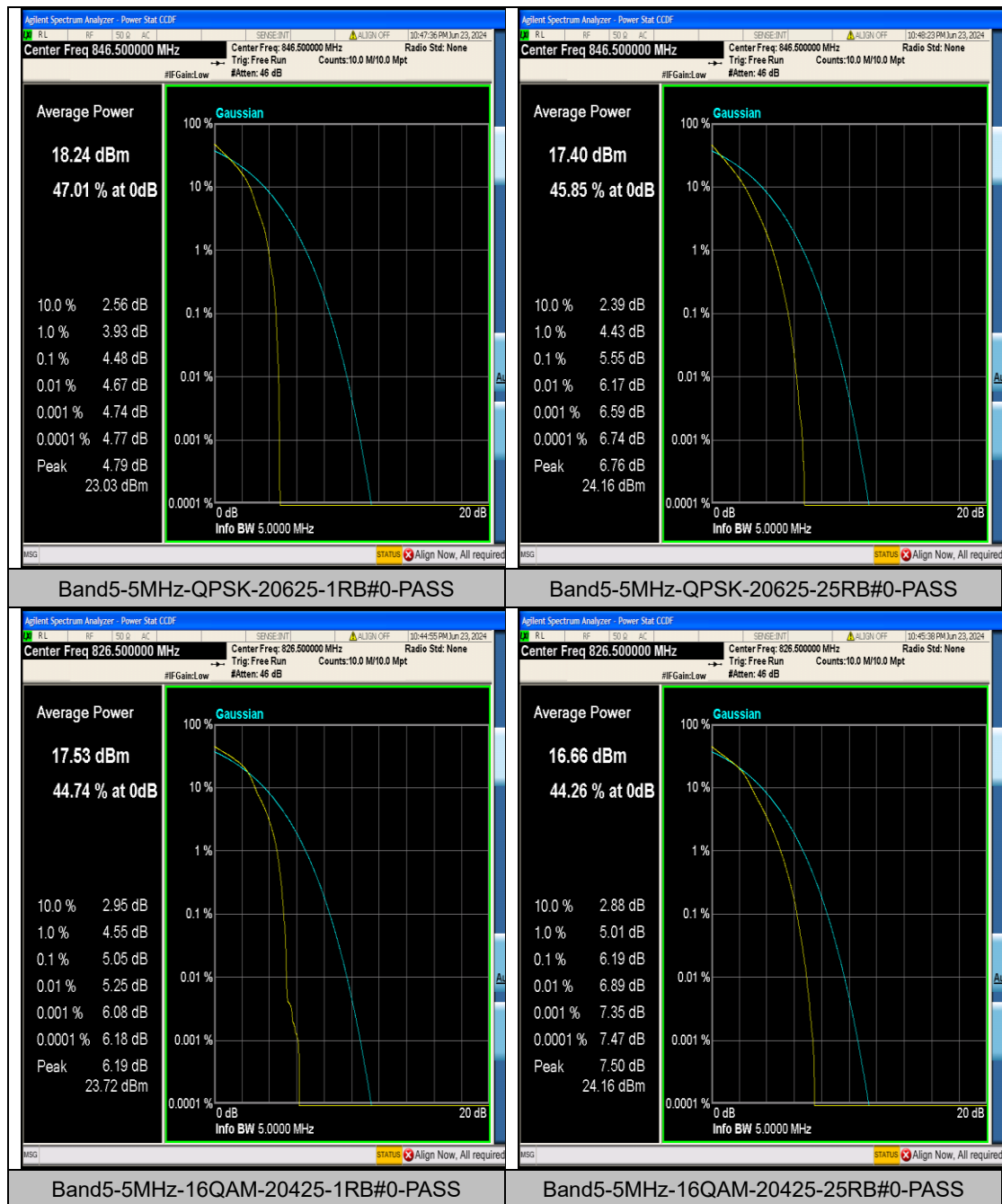


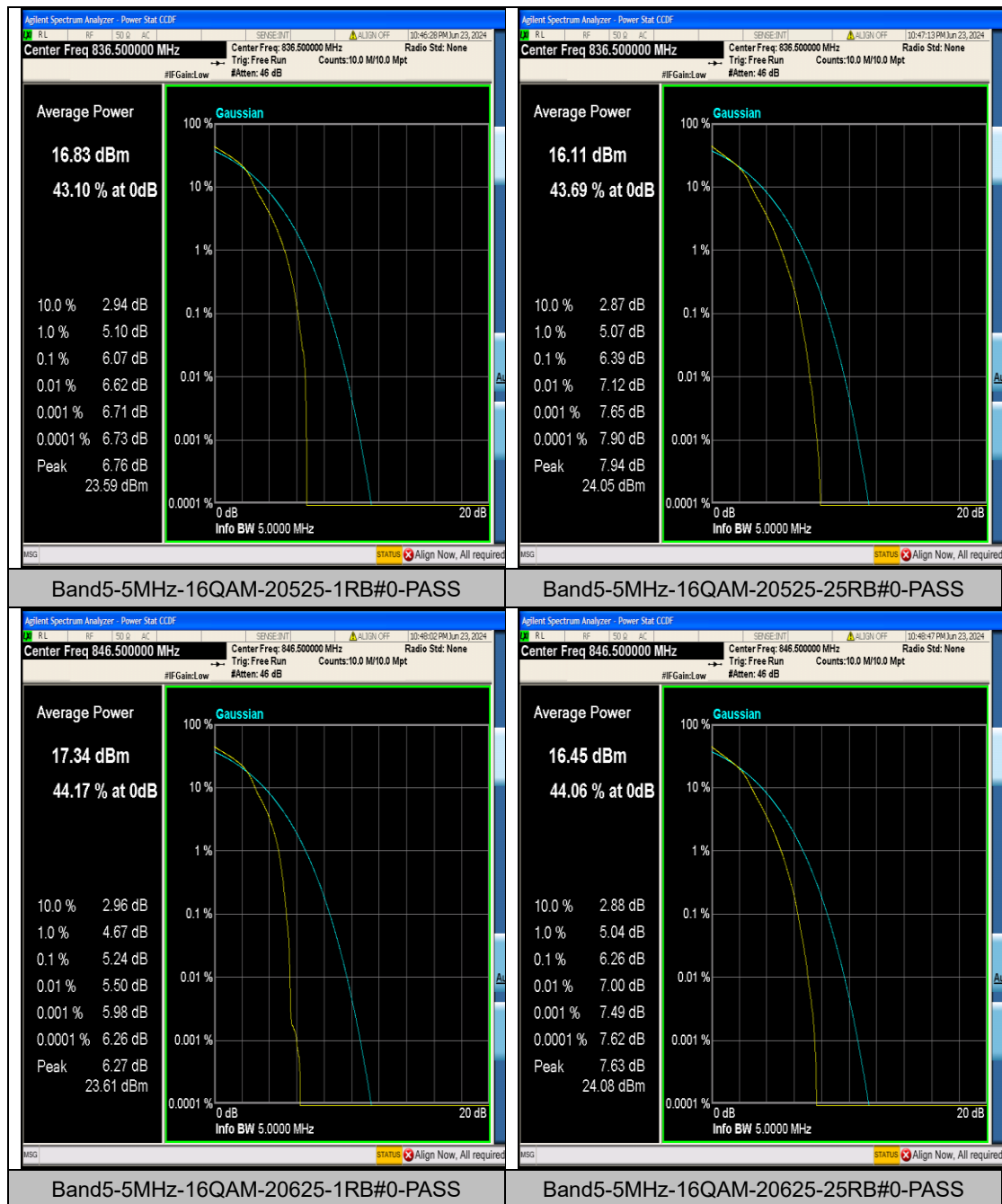


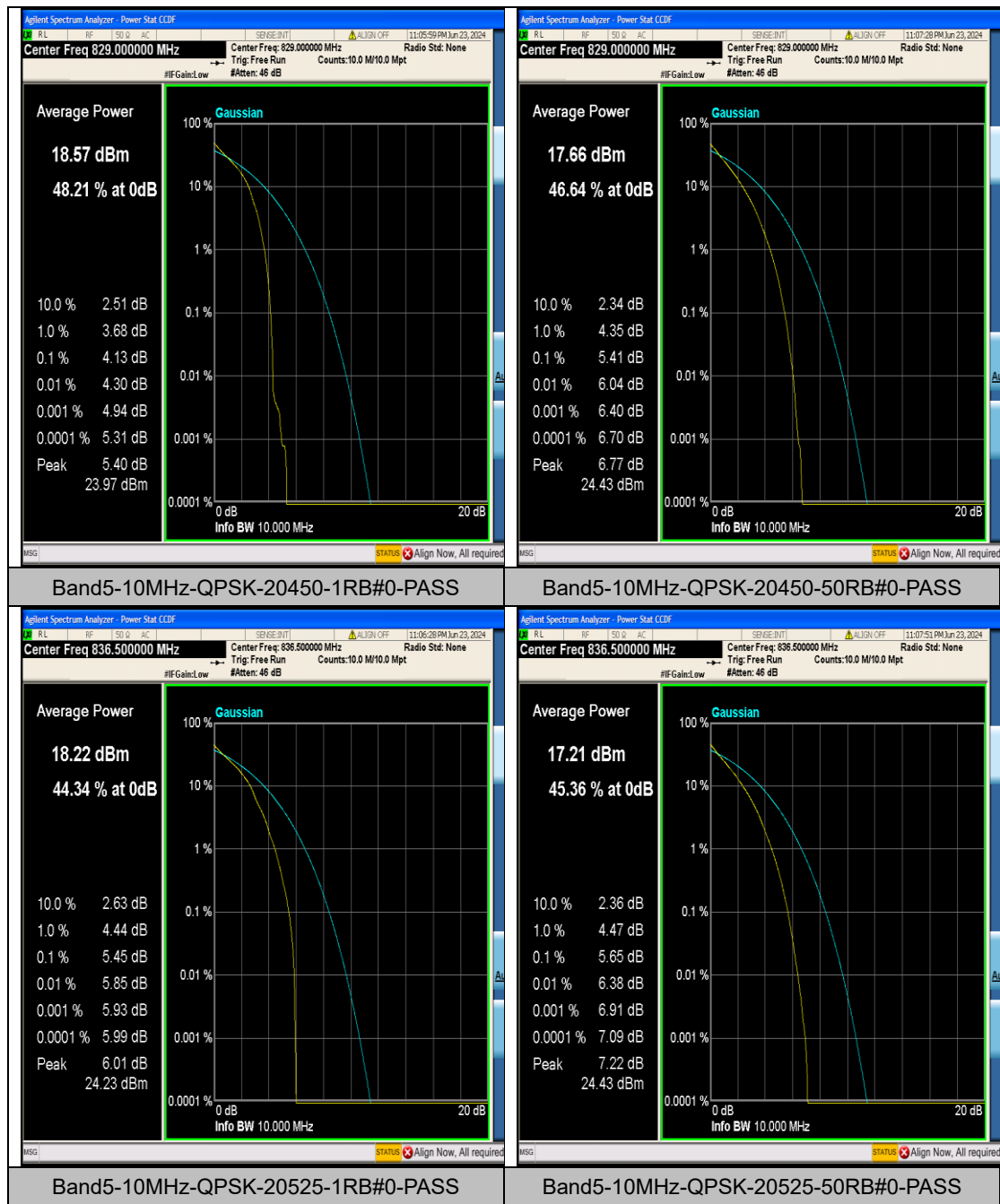


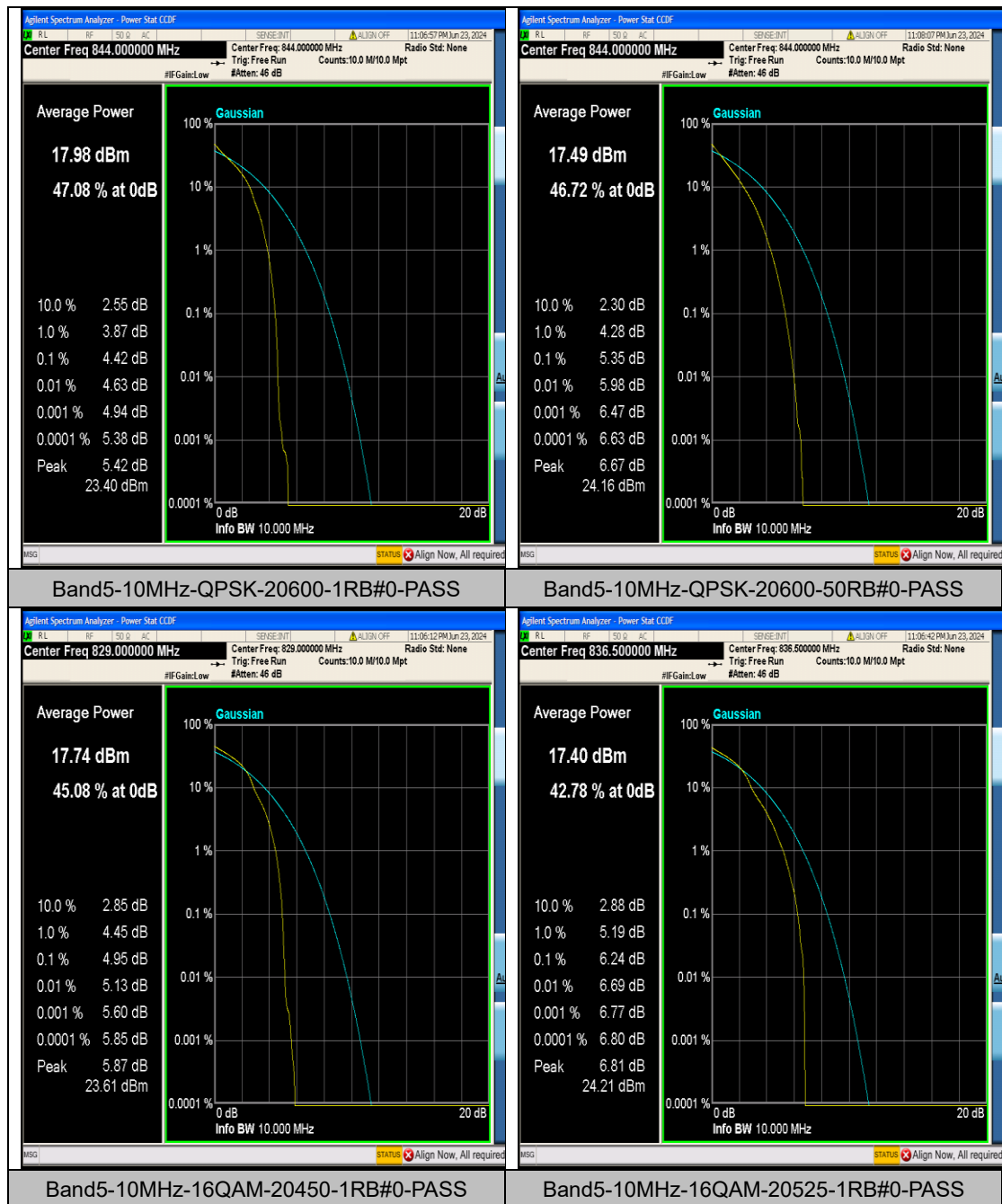


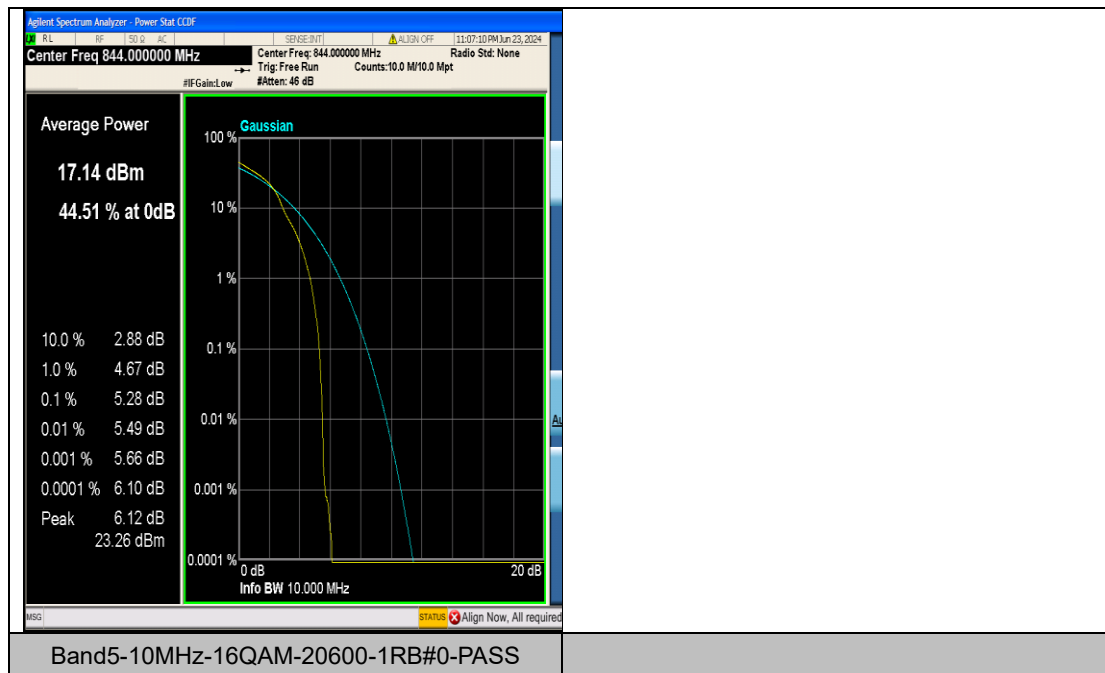










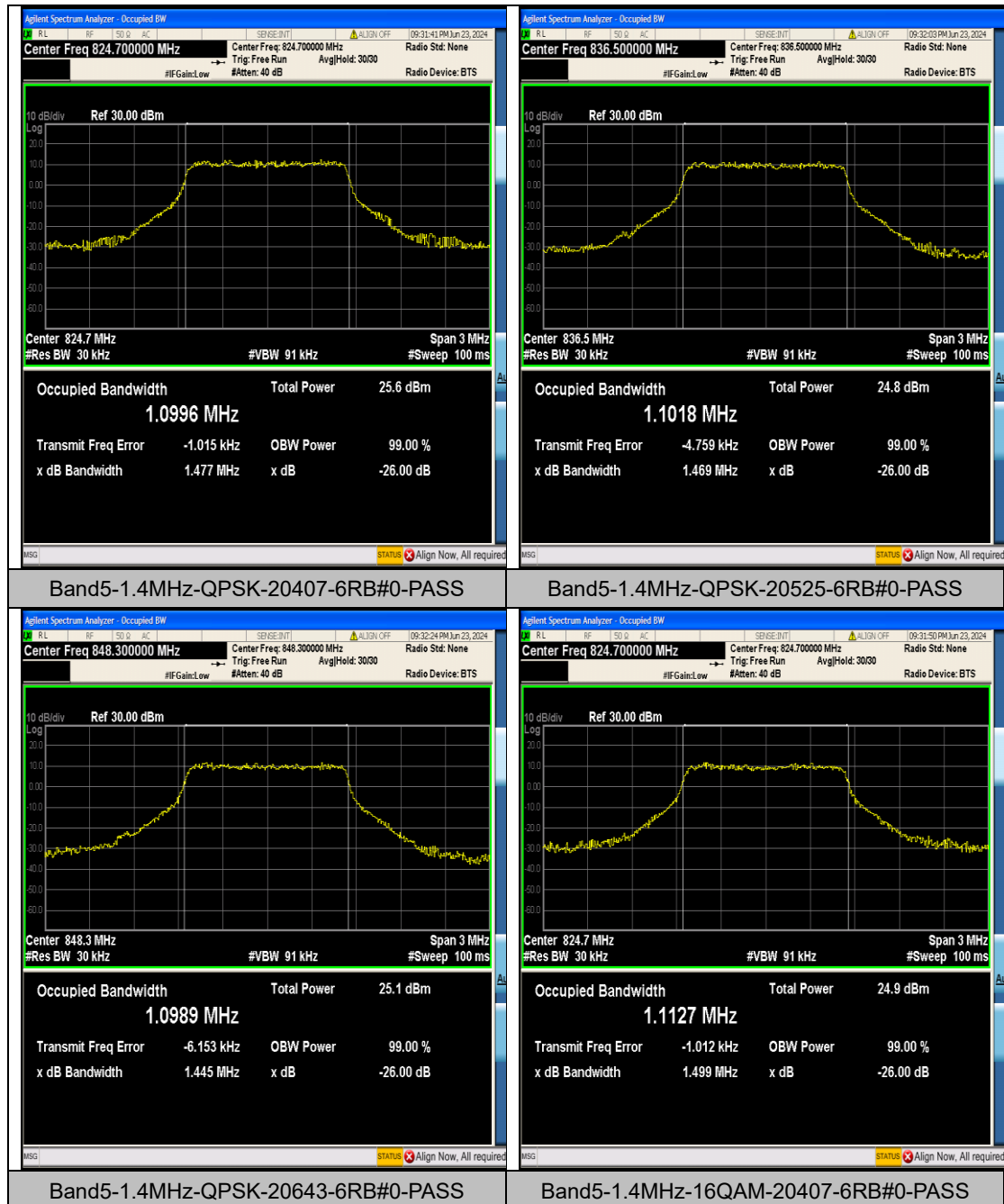


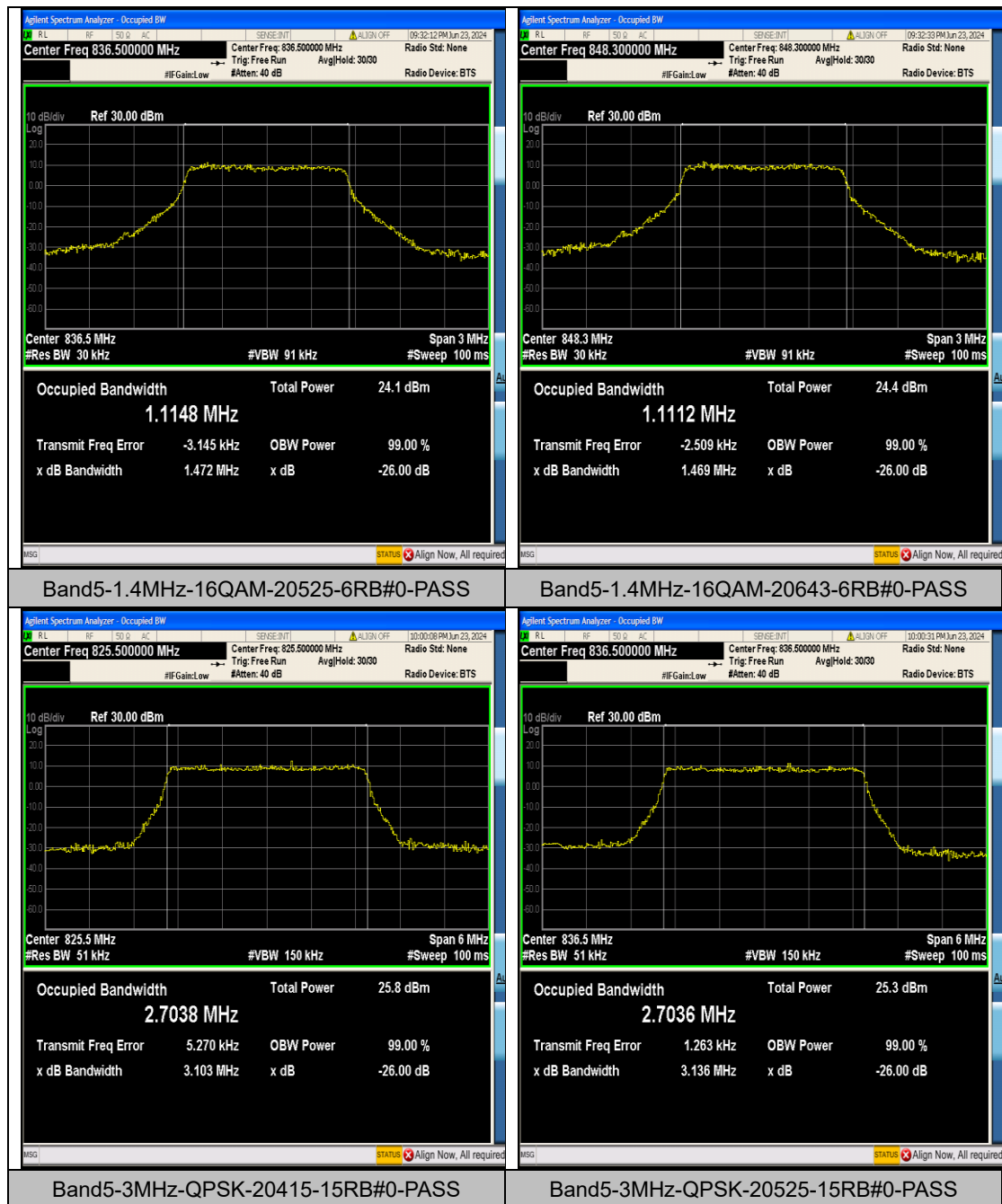
Appendix C: 26dB Bandwidth and Occupied Bandwidth

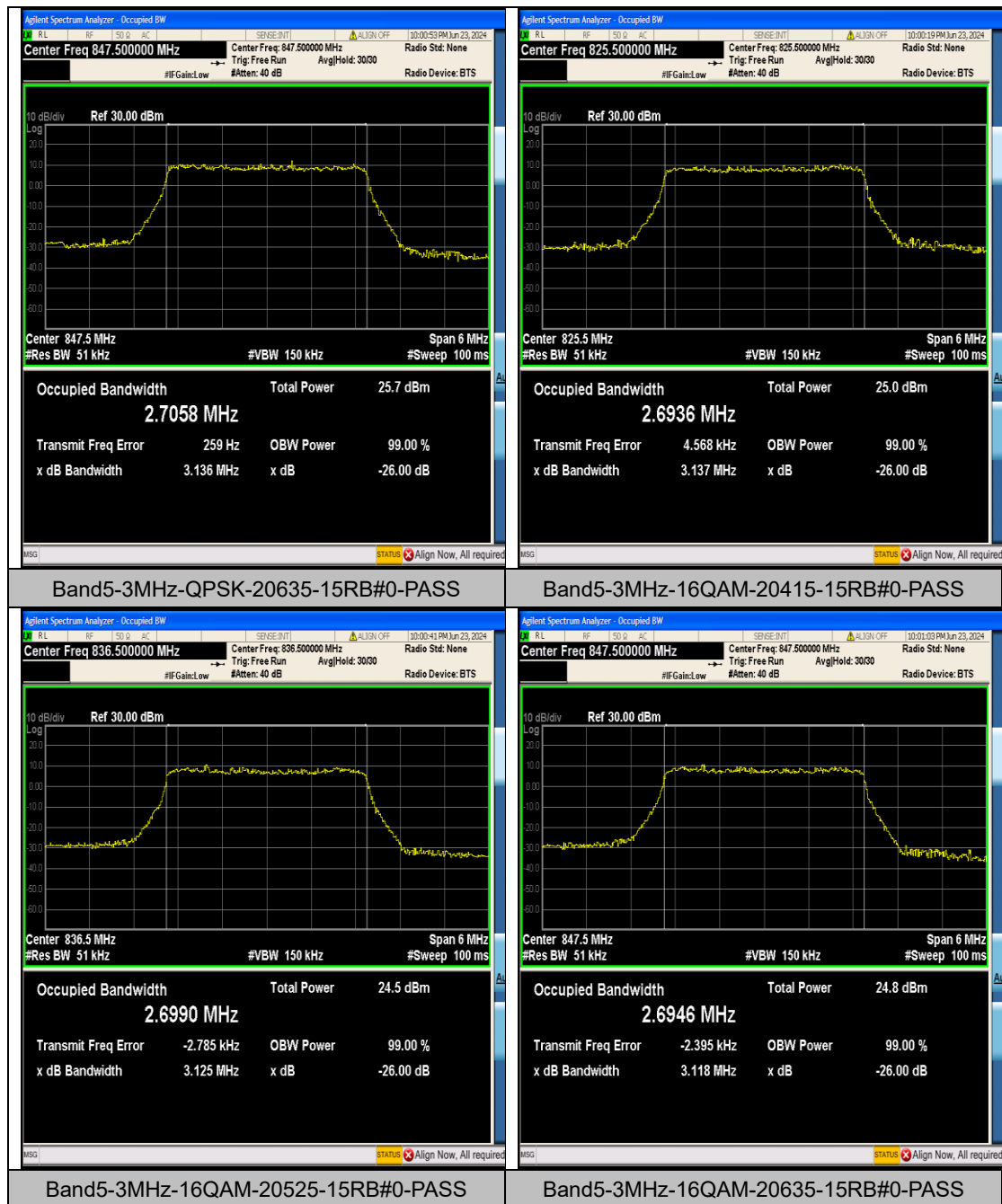
Test Result

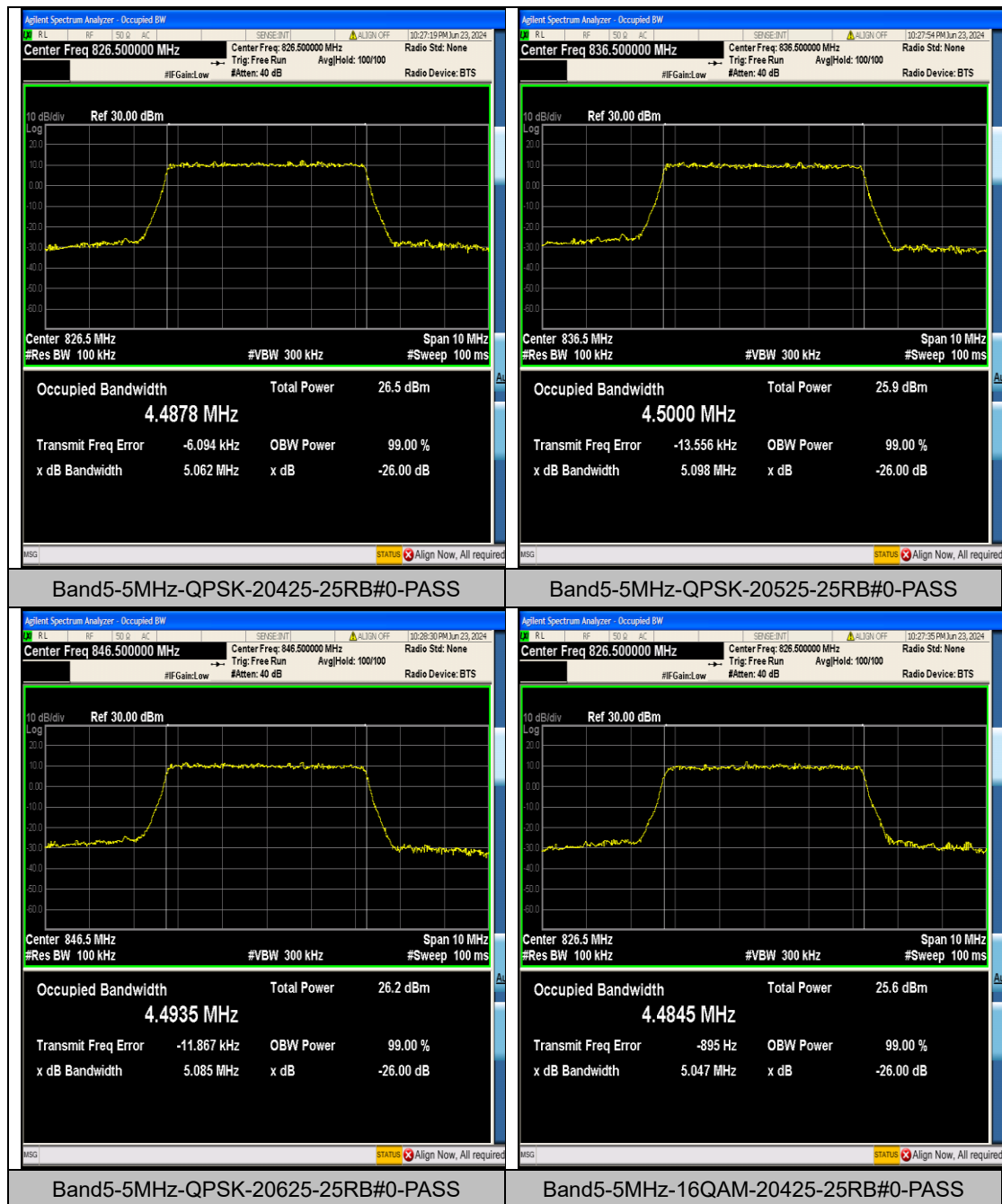
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0996	1.477	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.1018	1.469	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0989	1.445	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1127	1.499	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1148	1.472	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1112	1.469	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7038	3.103	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7036	3.136	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7058	3.136	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6936	3.137	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6990	3.125	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6946	3.118	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4878	5.062	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5000	5.098	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4935	5.085	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4845	5.047	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4915	5.054	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4875	5.072	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9457	9.809	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9922	9.870	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9582	9.853	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.9522	5.806	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.9791	5.805	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.9648	5.800	PASS

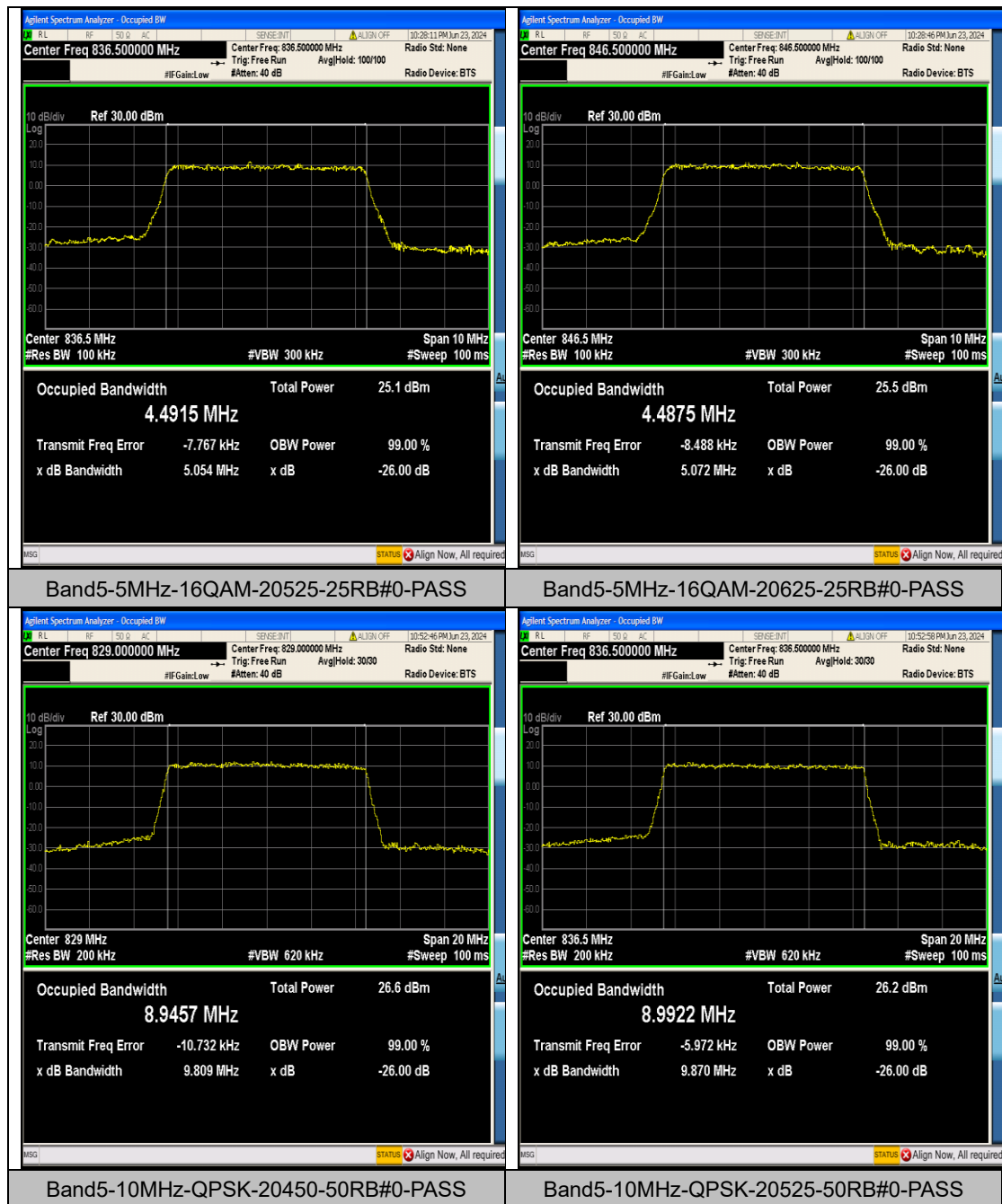
Test Graphs

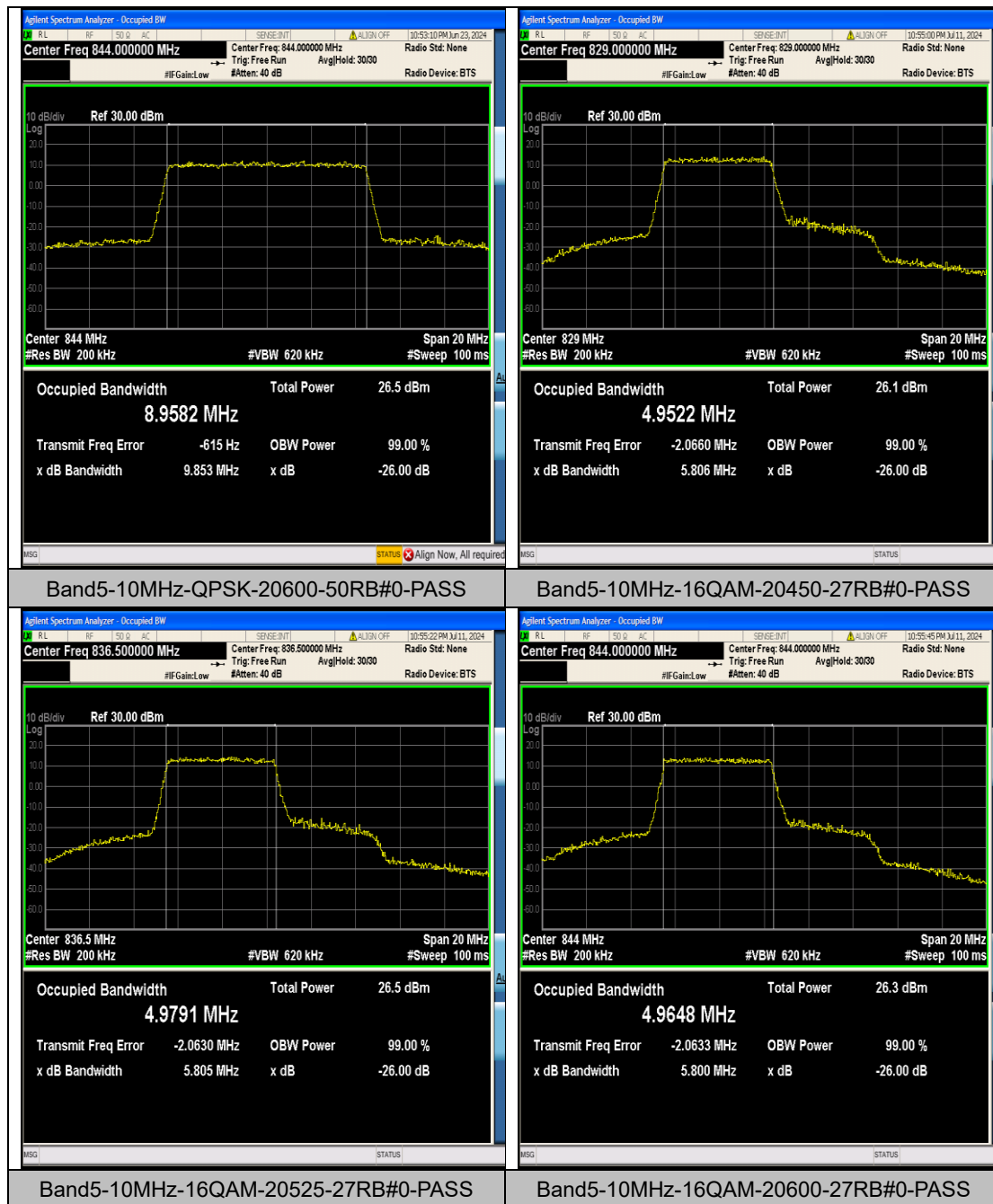












Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-19.00	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-26.18	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-30.67	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-33.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-21.64	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-29.83	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-26.09	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-32.90	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-27.47	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-36.54	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-20.46	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-26.18	PASS
Band5	3MHz	QPSK	20415	1RB#0	-22.01	PASS
Band5	3MHz	QPSK	20415	1RB#14	-36.62	PASS
Band5	3MHz	QPSK	20415	15RB#0	-32.26	PASS
Band5	3MHz	QPSK	20635	1RB#0	-36.77	PASS
Band5	3MHz	QPSK	20635	1RB#14	-23.97	PASS
Band5	3MHz	QPSK	20635	15RB#0	-33.69	PASS
Band5	3MHz	16QAM	20415	1RB#0	-23.56	PASS
Band5	3MHz	16QAM	20415	1RB#14	-37.59	PASS
Band5	3MHz	16QAM	20415	15RB#0	-33.11	PASS
Band5	3MHz	16QAM	20635	1RB#0	-37.84	PASS
Band5	3MHz	16QAM	20635	1RB#14	-25.63	PASS
Band5	3MHz	16QAM	20635	15RB#0	-34.56	PASS
Band5	5MHz	QPSK	20425	1RB#0	-29.03	PASS
Band5	5MHz	QPSK	20425	1RB#24	-47.23	PASS
Band5	5MHz	QPSK	20425	25RB#0	-36.61	PASS
Band5	5MHz	QPSK	20625	1RB#0	-48.59	PASS
Band5	5MHz	QPSK	20625	1RB#24	-30.66	PASS
Band5	5MHz	QPSK	20625	25RB#0	-39.37	PASS
Band5	5MHz	16QAM	20425	1RB#0	-30.70	PASS
Band5	5MHz	16QAM	20425	1RB#24	-48.40	PASS
Band5	5MHz	16QAM	20425	25RB#0	-37.02	PASS
Band5	5MHz	16QAM	20625	1RB#0	-49.82	PASS
Band5	5MHz	16QAM	20625	1RB#24	-32.40	PASS
Band5	5MHz	16QAM	20625	25RB#0	-40.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	-42.17	PASS

Band5	10MHz	QPSK	20450	1RB#49	-54.49	PASS
Band5	10MHz	QPSK	20450	50RB#0	-38.08	PASS
Band5	10MHz	QPSK	20600	1RB#0	-56.38	PASS
Band5	10MHz	QPSK	20600	1RB#49	-44.87	PASS
Band5	10MHz	QPSK	20600	50RB#0	-42.33	PASS
Band5	10MHz	16QAM	20450	1RB#0	-42.70	PASS
Band5	10MHz	16QAM	20450	1RB#49	-55.16	PASS
Band5	10MHz	16QAM	20600	1RB#0	-56.59	PASS
Band5	10MHz	16QAM	20600	1RB#49	-44.74	PASS

Test Graphs

