

Appendix for LTE BAND 5

Product Name: Mobile Phone

Model No: IDOL

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	21.93	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.05	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	21.85	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.08	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	21.88	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.01	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	21.98	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	20.91	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	21.94	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	20.91	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	21.97	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	20.91	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.54	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.53	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	21.37	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.56	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	21.41	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.60	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.28	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.52	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	21.54	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	20.47	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	21.54	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	20.50	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	21.44	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	20.34	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	20.96	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.40	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	21.76	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.93	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.31	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.51	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.31	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.30	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	21.79	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	20.74	PASS

Band5	1.4MHz	QPSK	20643	3RB#1	21.79	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	20.80	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	21.36	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.34	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	20.79	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.31	PASS
Band5	3MHz	QPSK	20415	1RB#0	21.92	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.57	PASS
Band5	3MHz	QPSK	20415	1RB#8	21.87	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.50	PASS
Band5	3MHz	QPSK	20415	1RB#14	21.50	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.14	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.50	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.61	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.55	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.66	PASS
Band5	3MHz	QPSK	20415	8RB#7	20.98	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.70	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.36	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	21.41	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.12	PASS
Band5	3MHz	QPSK	20525	1RB#8	21.40	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.07	PASS
Band5	3MHz	QPSK	20525	1RB#14	21.43	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.12	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.05	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.20	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.06	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.20	PASS
Band5	3MHz	QPSK	20525	8RB#7	20.91	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.46	PASS
Band5	3MHz	QPSK	20525	15RB#0	20.93	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.33	PASS
Band5	3MHz	QPSK	20635	1RB#0	21.84	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.44	PASS
Band5	3MHz	QPSK	20635	1RB#8	21.89	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.46	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.48	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.13	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.28	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.47	PASS

Band5	3MHz	QPSK	20635	8RB#4	21.25	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.46	PASS
Band5	3MHz	QPSK	20635	8RB#7	20.95	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.40	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.23	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.13	PASS
Band5	5MHz	QPSK	20425	1RB#0	21.94	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.48	PASS
Band5	5MHz	QPSK	20425	1RB#12	21.66	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.07	PASS
Band5	5MHz	QPSK	20425	1RB#24	21.62	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.33	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.48	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.38	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.48	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.39	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.10	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.42	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.19	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.57	PASS
Band5	5MHz	QPSK	20525	1RB#0	21.63	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.62	PASS
Band5	5MHz	QPSK	20525	1RB#12	21.60	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.64	PASS
Band5	5MHz	QPSK	20525	1RB#24	21.72	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.79	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.12	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.26	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.14	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.29	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.02	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.43	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.09	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.38	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.44	PASS
Band5	5MHz	16QAM	20625	1RB#0	20.93	PASS
Band5	5MHz	QPSK	20625	1RB#12	21.87	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.27	PASS
Band5	5MHz	QPSK	20625	1RB#24	21.56	PASS
Band5	5MHz	16QAM	20625	1RB#24	20.93	PASS
Band5	5MHz	QPSK	20625	12RB#0	20.92	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.23	PASS

Band5	5MHz	QPSK	20625	12RB#6	20.95	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.26	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.31	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.26	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.27	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.39	PASS
Band5	10MHz	QPSK	20450	1RB#0	21.97	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.10	PASS
Band5	10MHz	QPSK	20450	1RB#24	21.56	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.93	PASS
Band5	10MHz	QPSK	20450	1RB#49	21.61	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.52	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.23	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.51	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.15	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.51	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.11	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.12	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.53	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.51	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.54	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.65	PASS
Band5	10MHz	QPSK	20525	1RB#24	21.53	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.49	PASS
Band5	10MHz	QPSK	20525	1RB#49	21.51	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.50	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.17	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.10	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.18	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.14	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.22	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.31	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.15	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.40	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.73	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.77	PASS
Band5	10MHz	QPSK	20600	1RB#24	21.38	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.48	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.47	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.48	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.06	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.30	PASS

Band5	10MHz	QPSK	20600	25RB#12	21.11	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.32	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.33	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.32	PASS
Band5	10MHz	QPSK	20600	50RB#0	20.97	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.33	PASS

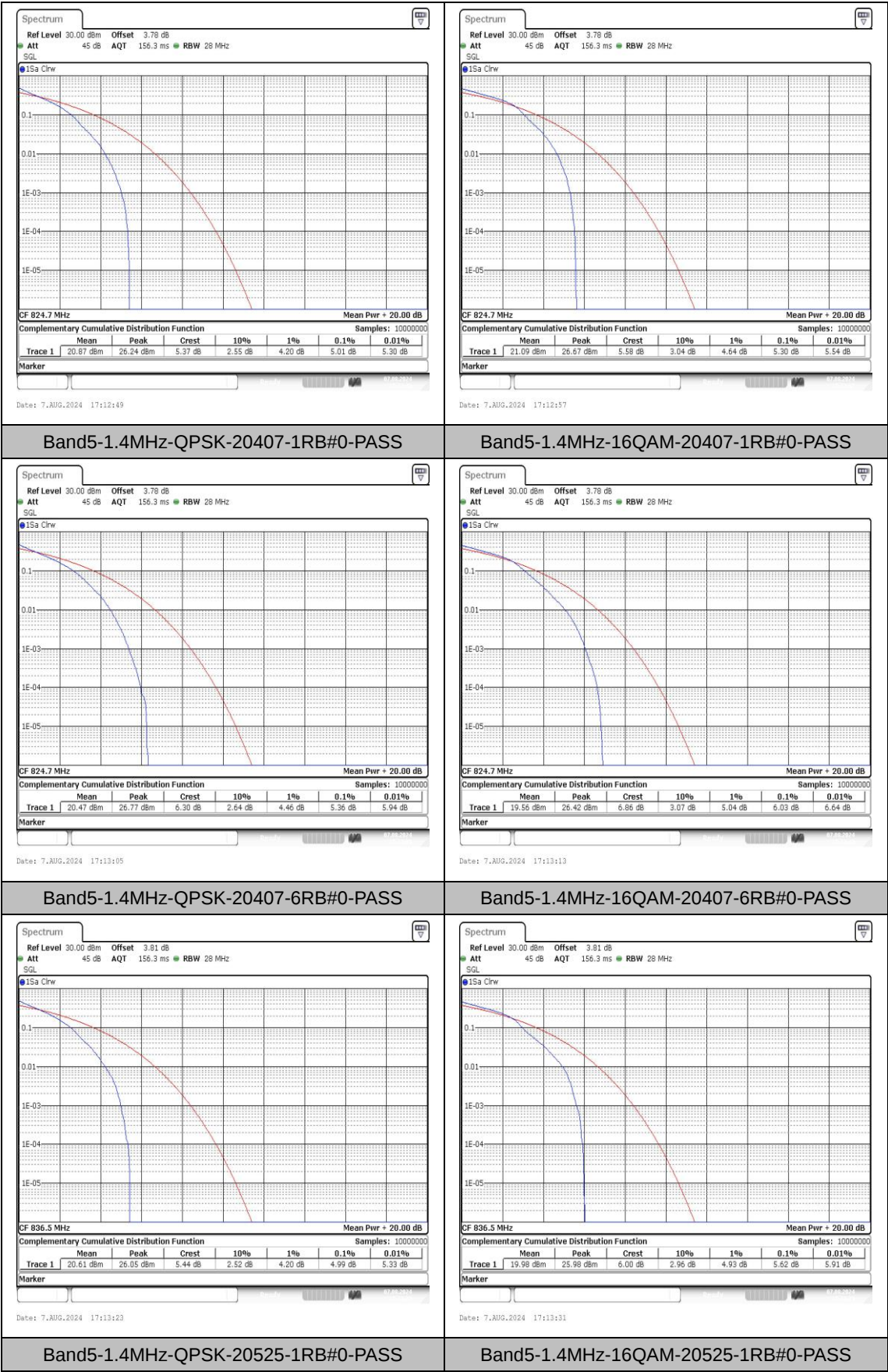
Appendix B: Peak-to-Average Ratio(CCDF)

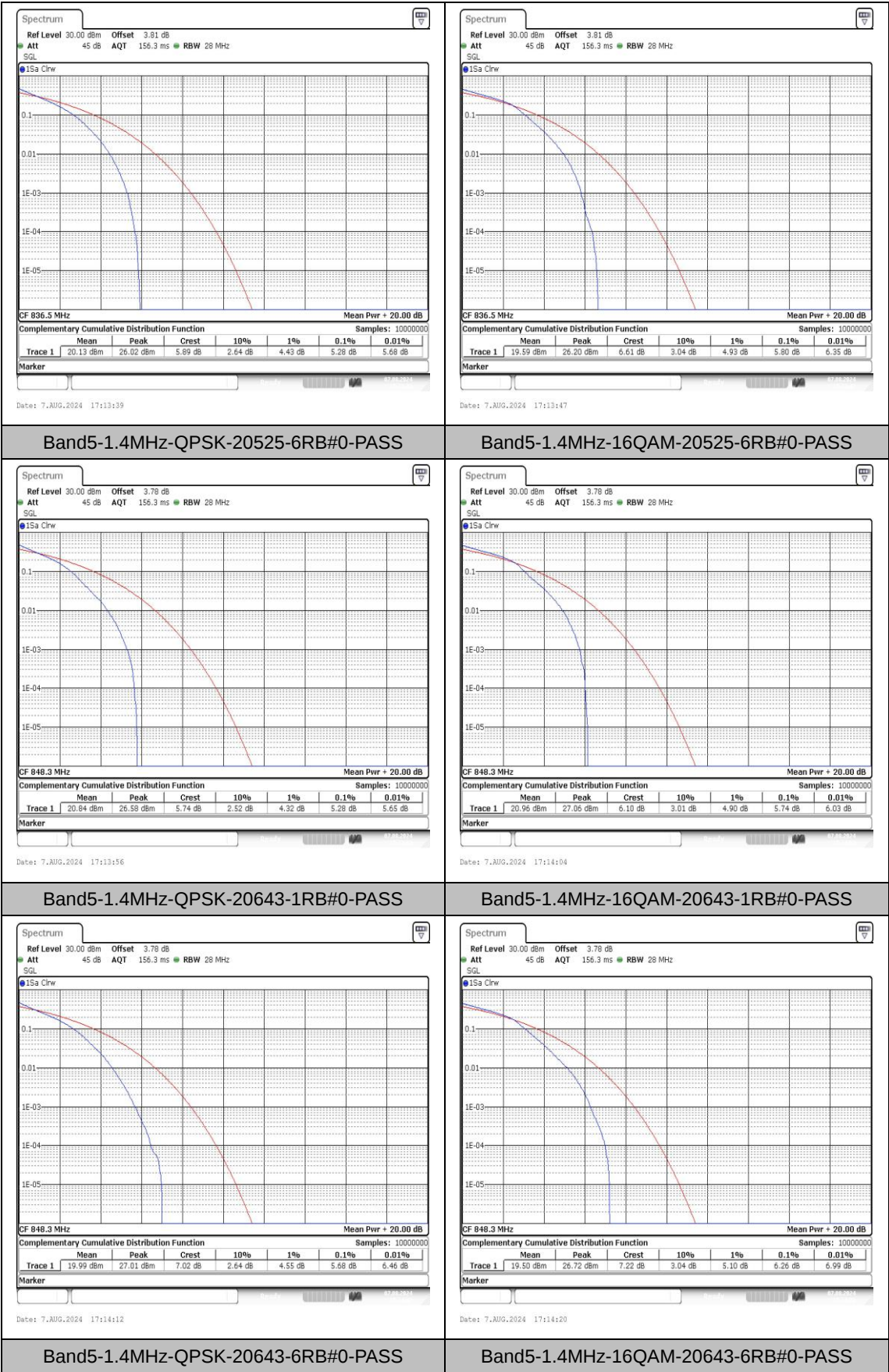
Test Result

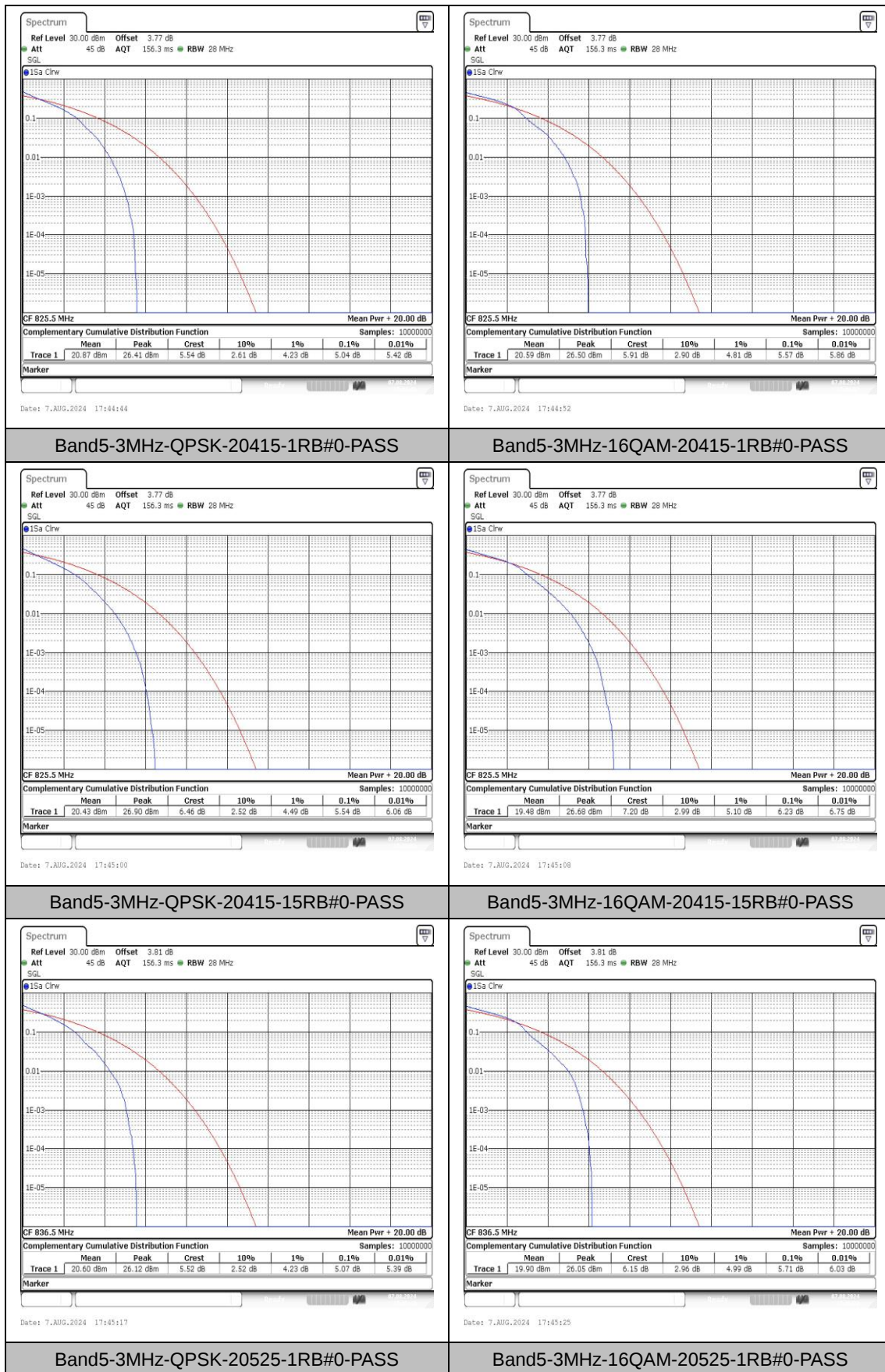
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	5.01	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.30	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.36	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.03	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.99	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.62	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.28	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.80	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	5.28	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.74	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.68	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.26	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	5.04	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.57	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.54	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.23	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	5.07	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.71	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.30	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.88	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	5.28	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.80	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.59	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.35	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.13	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.45	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.68	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.20	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.16	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.42	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.28	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.83	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	5.30	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.65	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.54	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.17	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	5.04	13	PASS

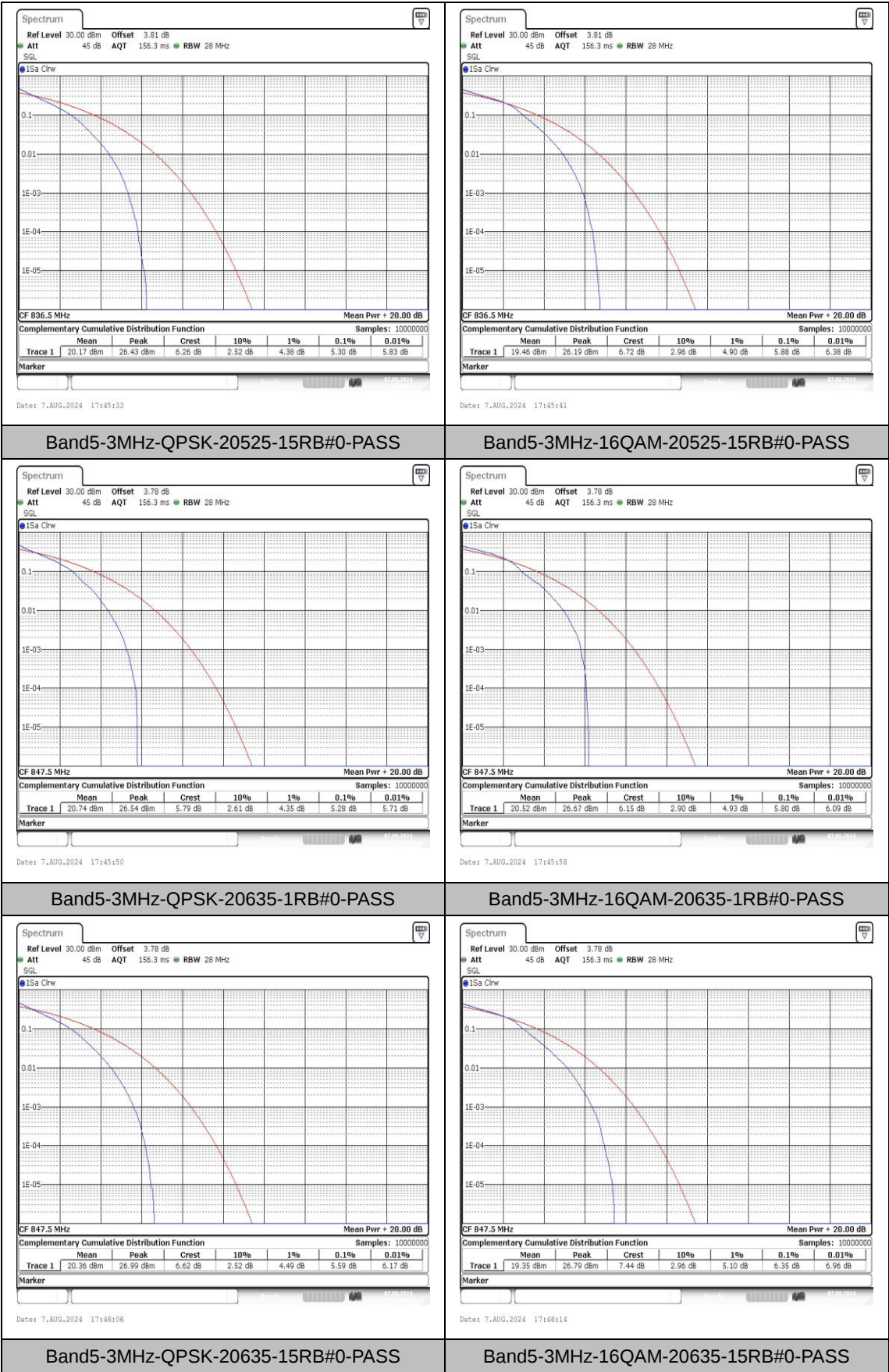
Band5	10MHz	16QAM	20450	1RB#0	5.36	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.54	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.26	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.28	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.65	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.33	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.91	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.75	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.99	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.54	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.09	13	PASS

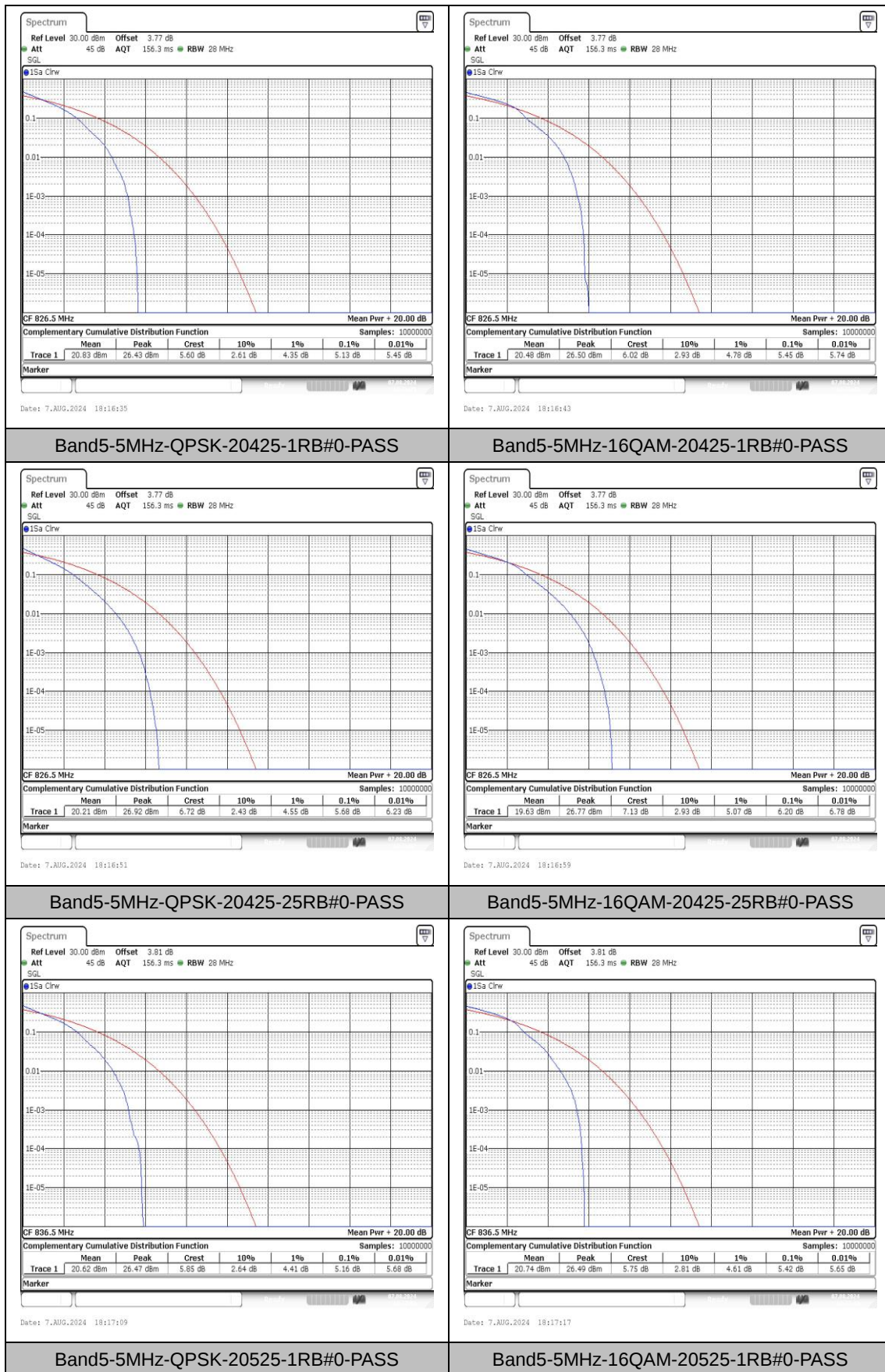
Test Graphs

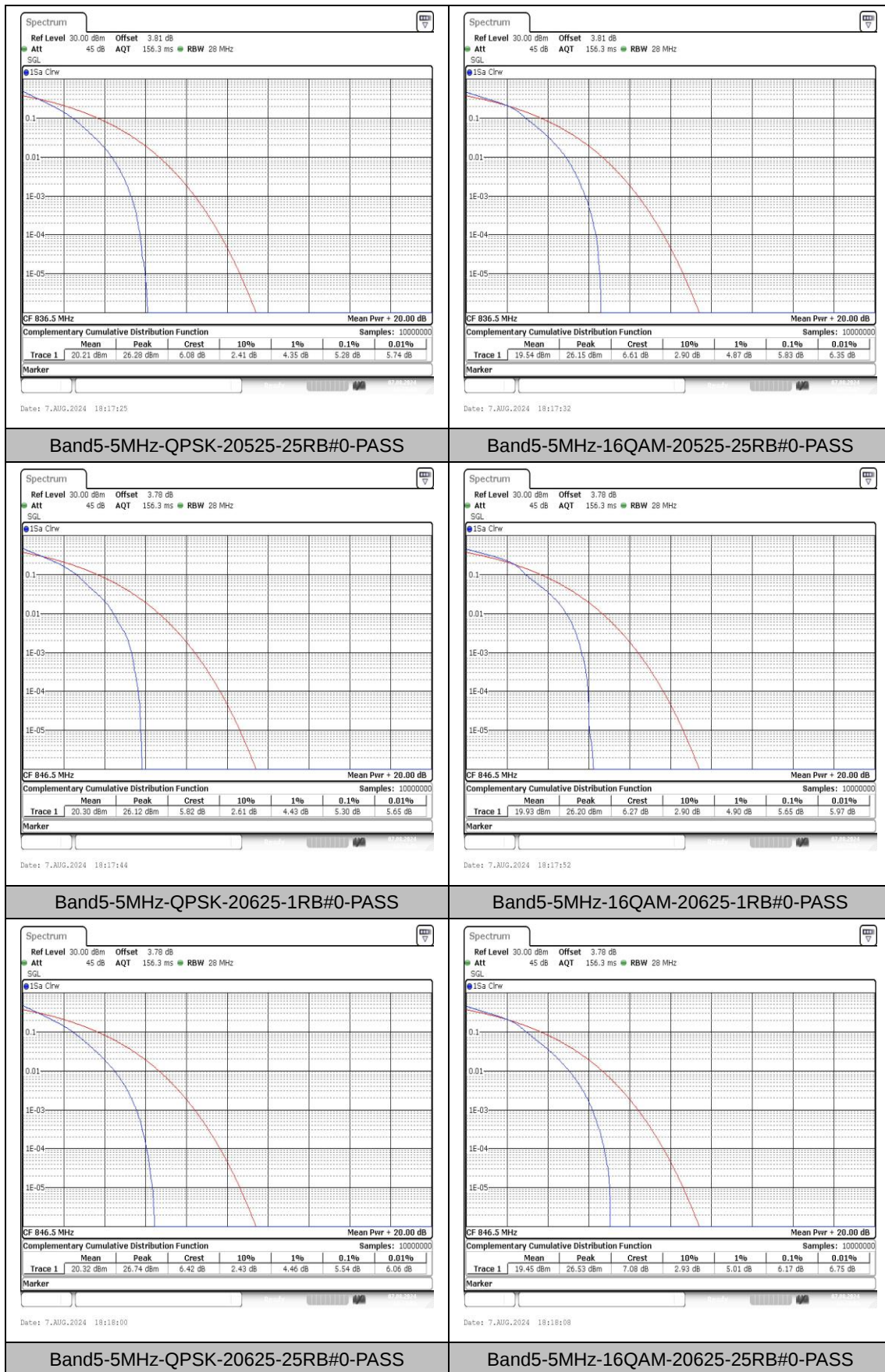


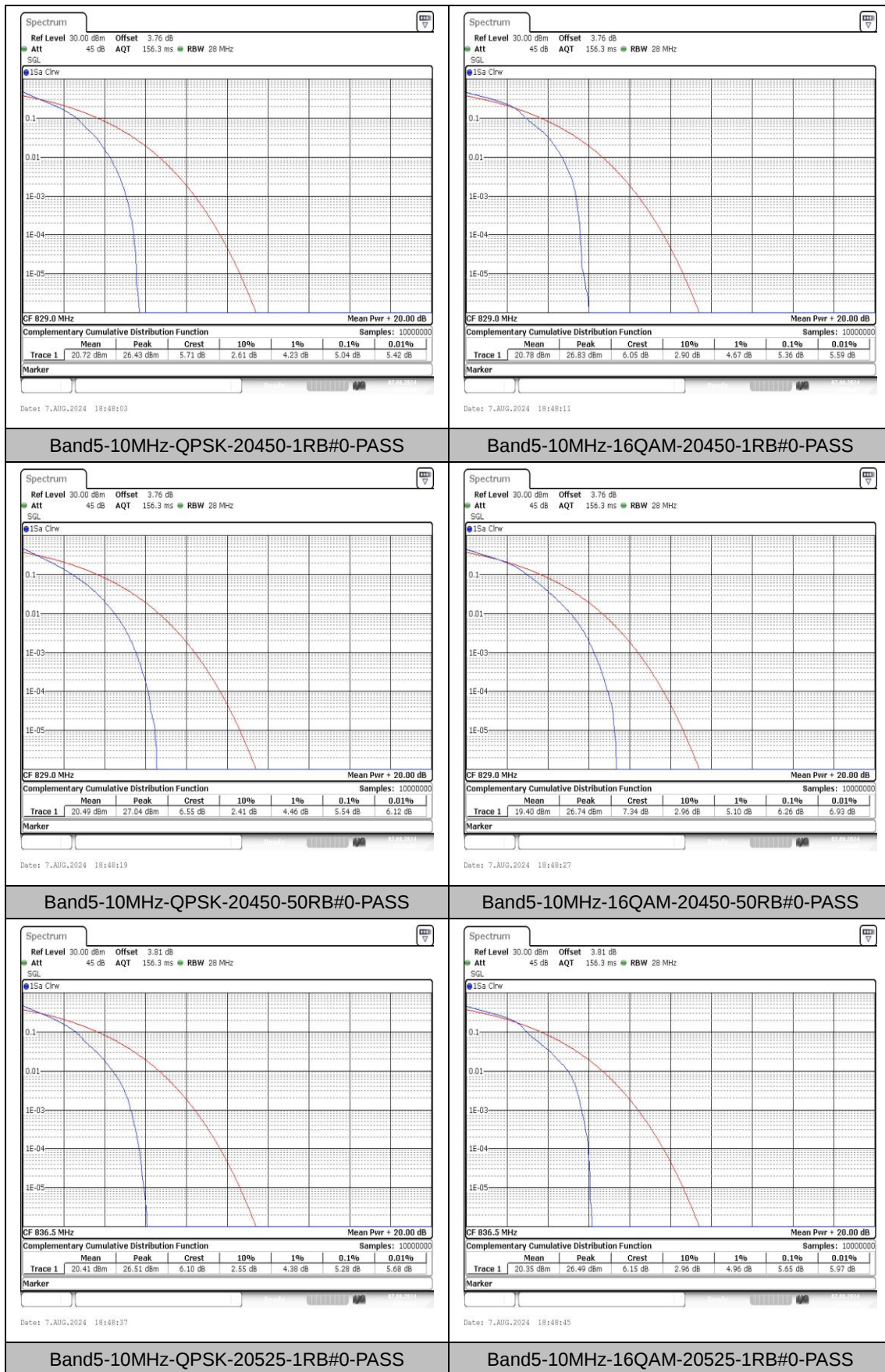


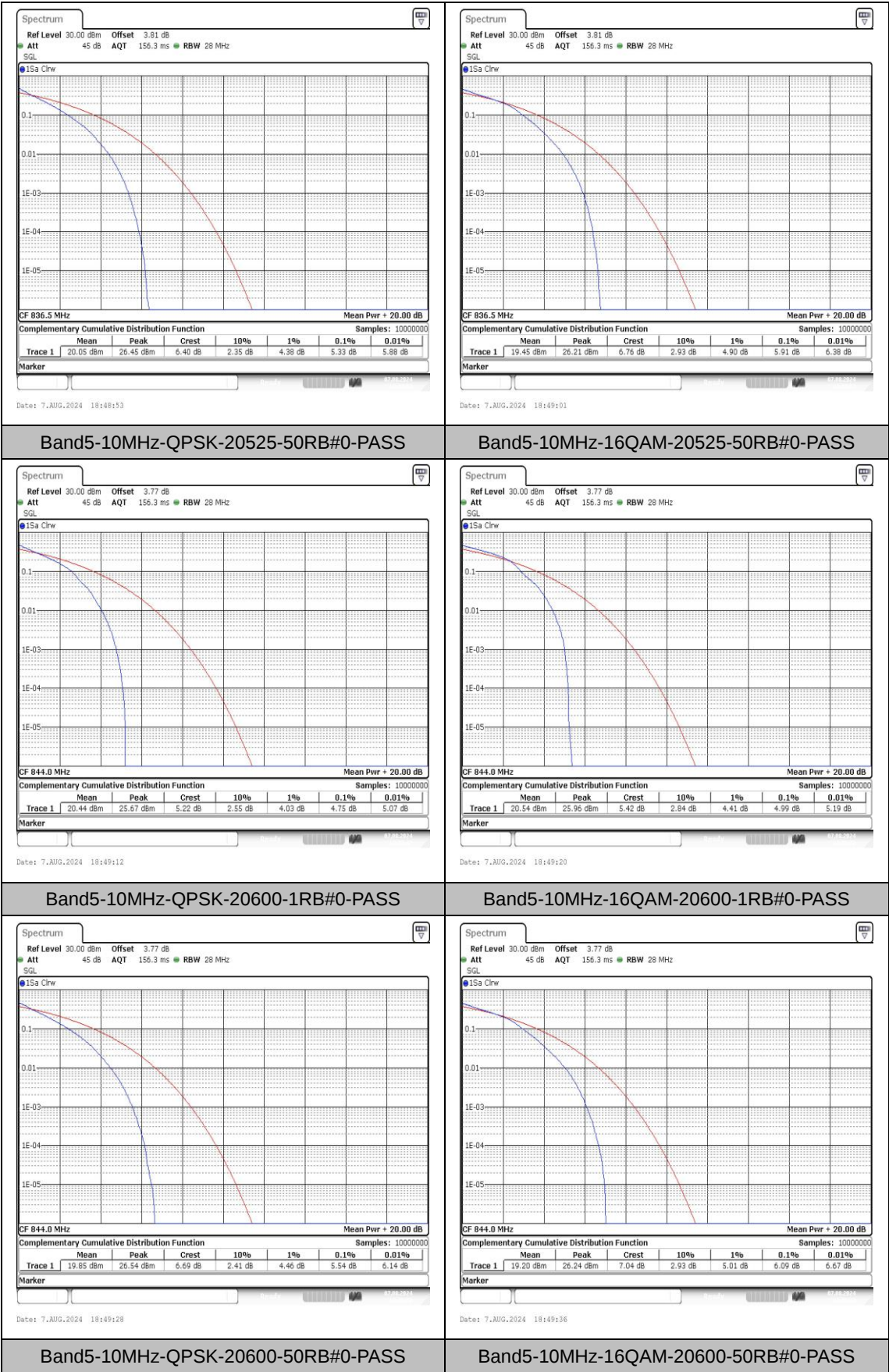










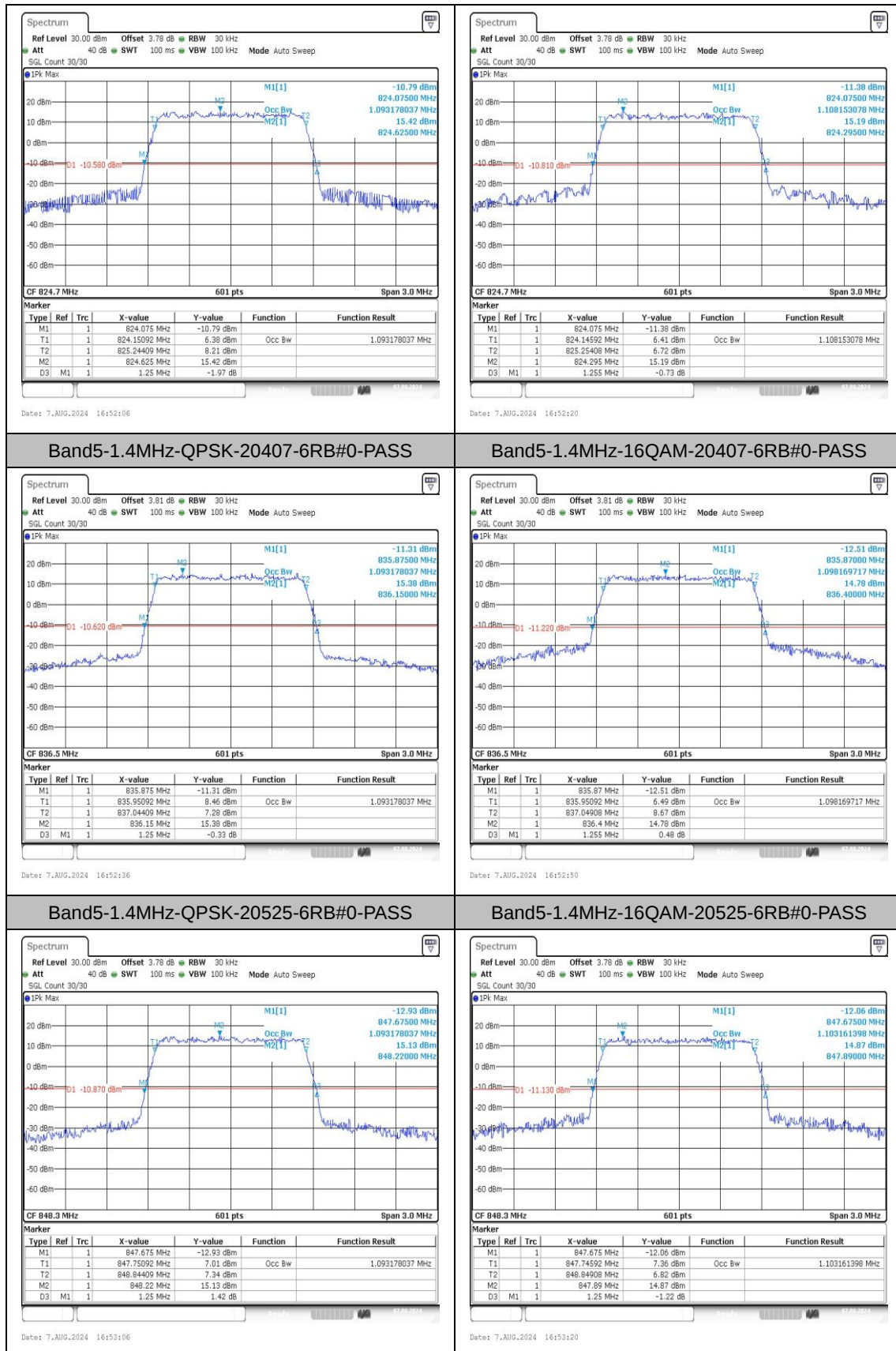


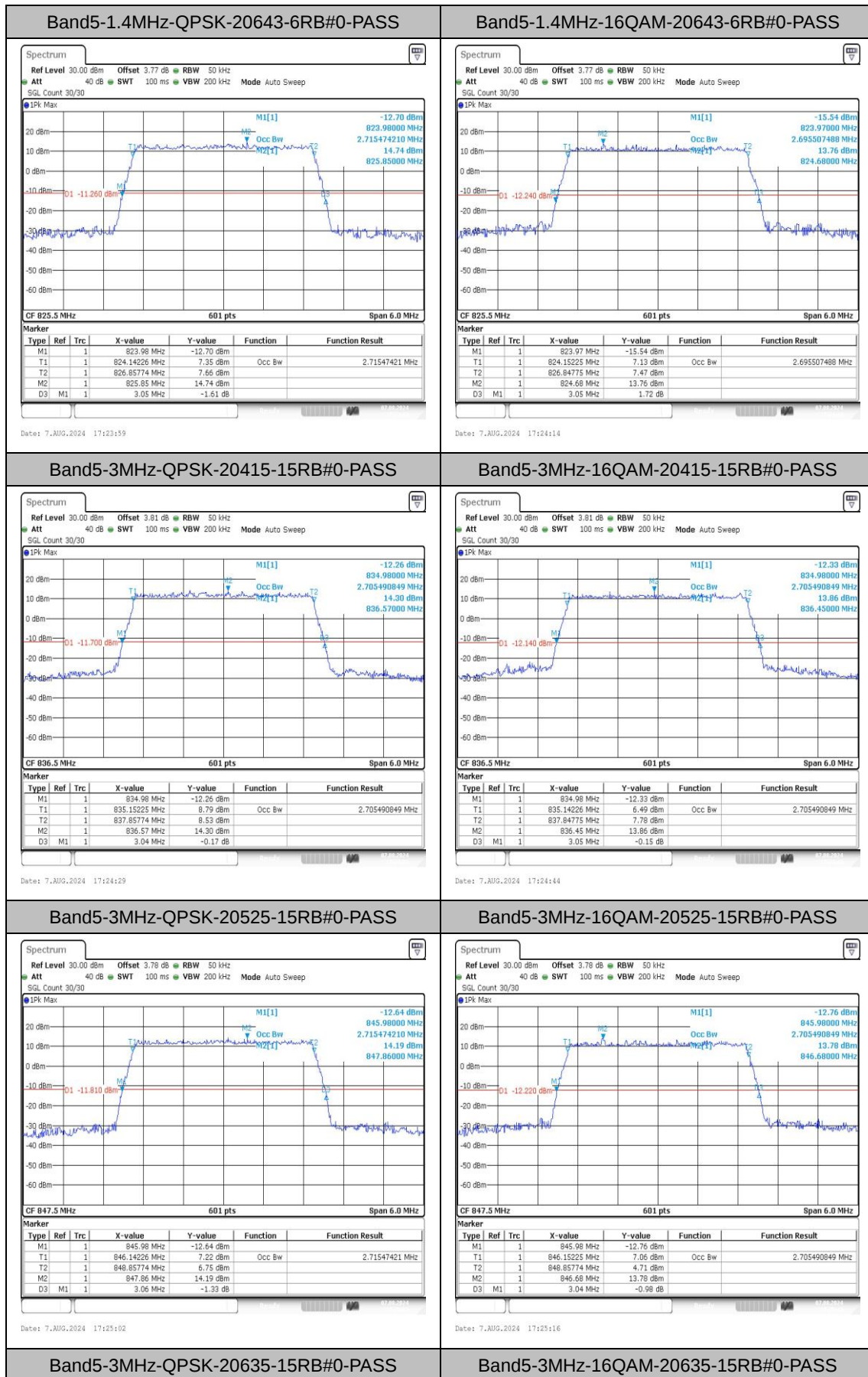
Appendix C: 26dB Bandwidth and Occupied Bandwidth

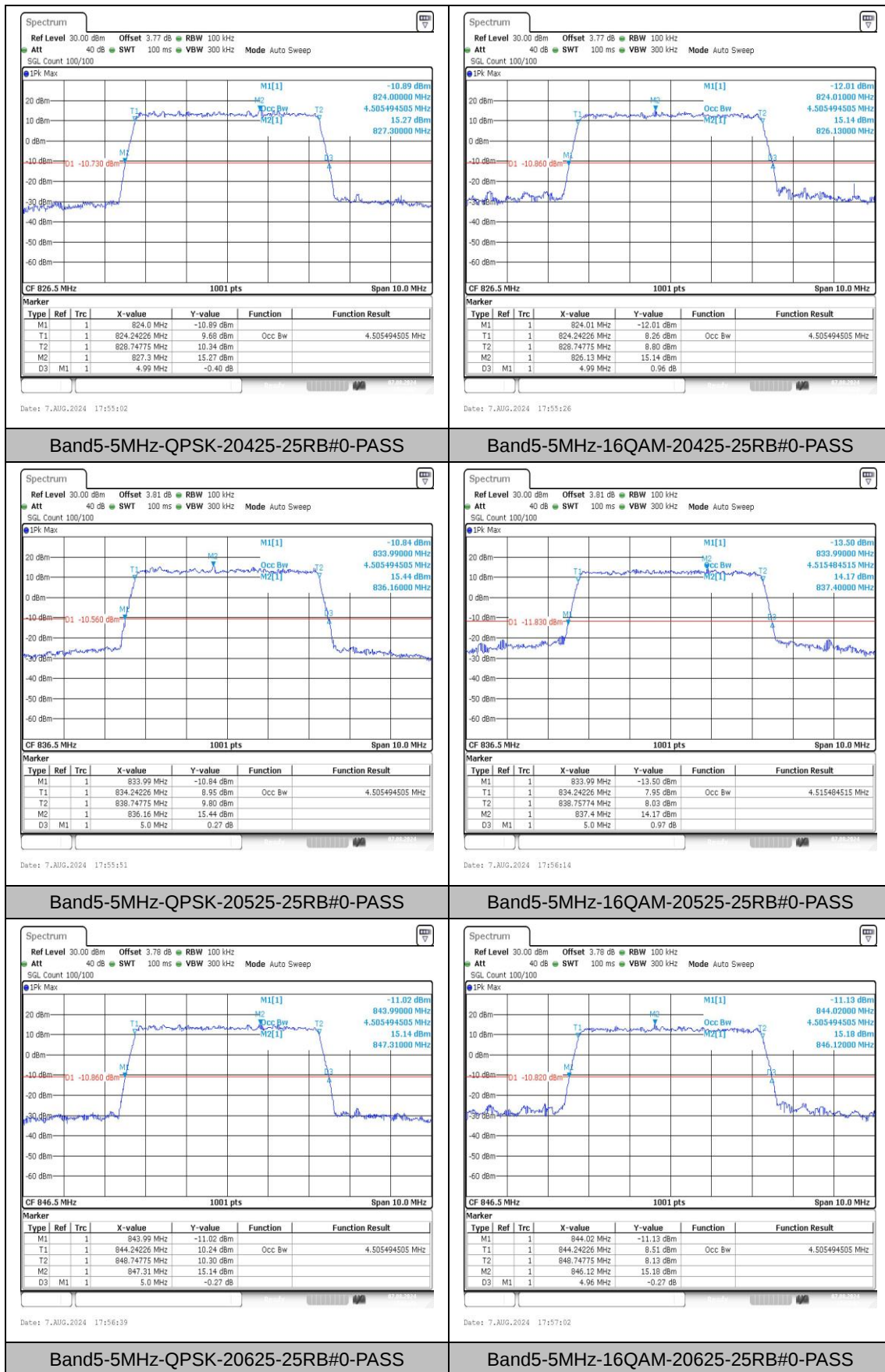
Test Result

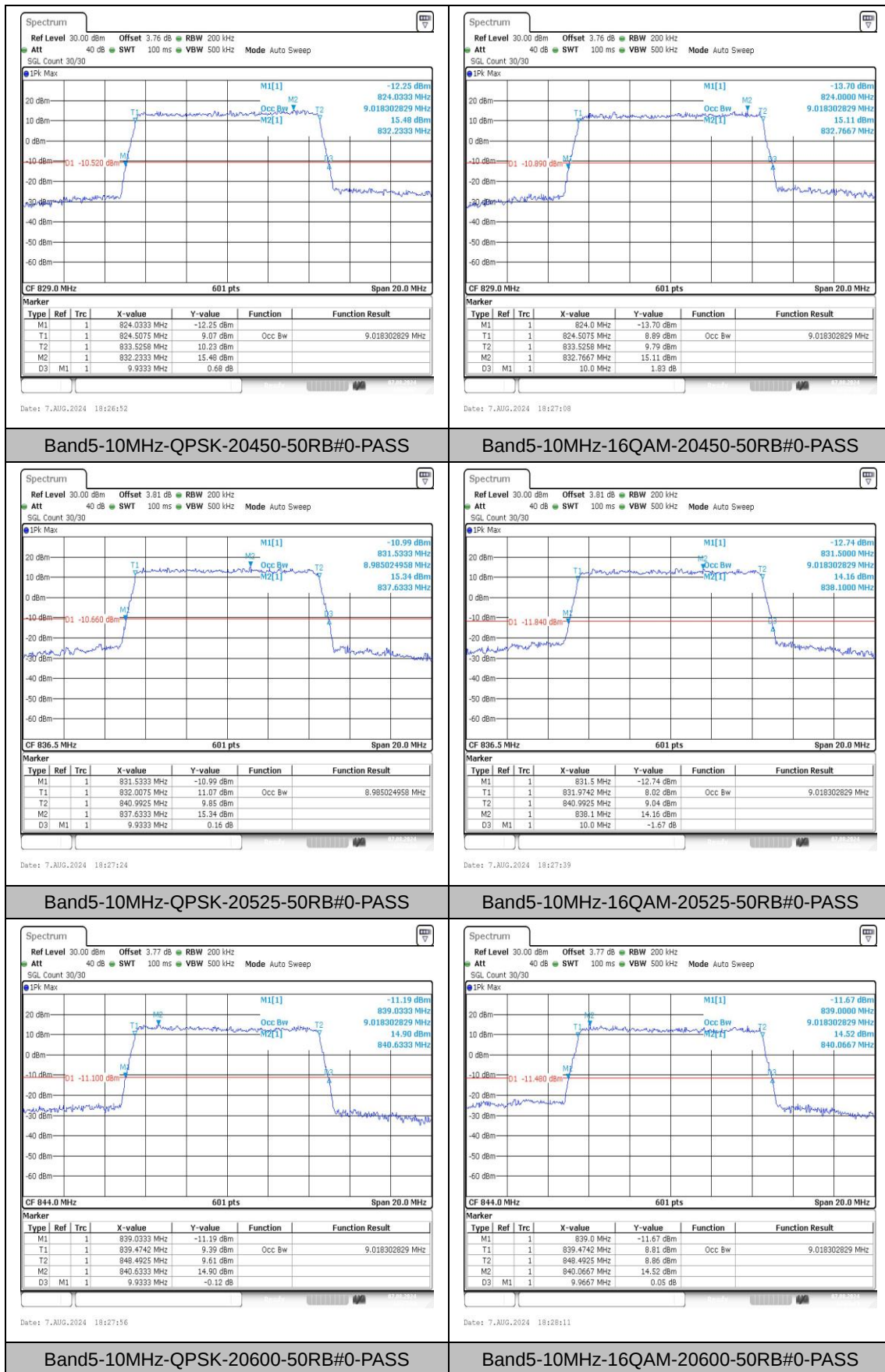
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.093	1.25	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.108	1.26	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.093	1.25	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.098	1.26	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.093	1.25	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.103	1.25	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.715	3.05	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.696	3.05	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.705	3.04	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.705	3.05	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.715	3.06	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.705	3.04	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.505	4.99	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.505	4.99	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.505	5.00	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.515	5.00	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.505	5.00	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.505	4.96	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.018	9.93	PASS
Band5	10MHz	16QAM	20450	50RB#0	9.018	10.00	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.985	9.93	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.018	10.00	PASS
Band5	10MHz	QPSK	20600	50RB#0	9.018	9.93	PASS
Band5	10MHz	16QAM	20600	50RB#0	9.018	9.97	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	-34.51	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-31.32	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-52.90	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-51.35	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-39.14	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-38.96	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-53.00	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-51.83	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-35.71	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-31.27	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-39.98	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-38.41	PASS
Band5	3MHz	QPSK	20415	1RB#0	-18.07	PASS
Band5	3MHz	16QAM	20415	1RB#0	-17.56	PASS
Band5	3MHz	QPSK	20415	1RB#14	-31.09	PASS
Band5	3MHz	16QAM	20415	1RB#14	-30.86	PASS
Band5	3MHz	QPSK	20415	15RB#0	-26.89	PASS
Band5	3MHz	16QAM	20415	15RB#0	-28.61	PASS
Band5	3MHz	QPSK	20635	1RB#0	-30.42	PASS
Band5	3MHz	16QAM	20635	1RB#0	-30.53	PASS
Band5	3MHz	QPSK	20635	1RB#14	-18.60	PASS
Band5	3MHz	16QAM	20635	1RB#14	-17.39	PASS
Band5	3MHz	QPSK	20635	15RB#0	-27.58	PASS
Band5	3MHz	16QAM	20635	15RB#0	-28.43	PASS
Band5	5MHz	QPSK	20425	1RB#0	-23.19	PASS
Band5	5MHz	16QAM	20425	1RB#0	-23.44	PASS
Band5	5MHz	QPSK	20425	1RB#24	-40.47	PASS
Band5	5MHz	16QAM	20425	1RB#24	-40.70	PASS
Band5	5MHz	QPSK	20425	25RB#0	-33.94	PASS
Band5	5MHz	16QAM	20425	25RB#0	-34.07	PASS
Band5	5MHz	QPSK	20625	1RB#0	-40.87	PASS
Band5	5MHz	16QAM	20625	1RB#0	-41.32	PASS
Band5	5MHz	QPSK	20625	1RB#24	-23.11	PASS
Band5	5MHz	16QAM	20625	1RB#24	-23.92	PASS
Band5	5MHz	QPSK	20625	25RB#0	-33.82	PASS

Band5	5MHz	16QAM	20625	25RB#0	-34.41	PASS
Band5	10MHz	QPSK	20450	1RB#0	-25.87	PASS
Band5	10MHz	16QAM	20450	1RB#0	-25.98	PASS
Band5	10MHz	QPSK	20450	1RB#49	-43.93	PASS
Band5	10MHz	16QAM	20450	1RB#49	-43.92	PASS
Band5	10MHz	QPSK	20450	50RB#0	-36.94	PASS
Band5	10MHz	16QAM	20450	50RB#0	-36.91	PASS
Band5	10MHz	QPSK	20600	1RB#0	-45.38	PASS
Band5	10MHz	16QAM	20600	1RB#0	-45.11	PASS
Band5	10MHz	QPSK	20600	1RB#49	-26.02	PASS
Band5	10MHz	16QAM	20600	1RB#49	-25.07	PASS
Band5	10MHz	QPSK	20600	50RB#0	-37.61	PASS
Band5	10MHz	16QAM	20600	50RB#0	-36.78	PASS

Test Graphs

