

Appendix A Conduction Data for LTE

1.Transmitter Conducted Output Power And ERP/EIRP

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)	ERP/EIRP(Limit) (dBm)	Verdict
5	1.4	20407	824.7	QPSK	1@0	24.05	16.74	0.0472	38.45	PASS
5	1.4	20407	824.7	QPSK	1@2	24.16	16.85	0.0484	38.45	PASS
5	1.4	20407	824.7	QPSK	1@5	24.08	16.77	0.0476	38.45	PASS
5	1.4	20407	824.7	QPSK	3@0	24.25	16.94	0.0494	38.45	PASS
5	1.4	20407	824.7	QPSK	3@1	24.19	16.88	0.0488	38.45	PASS
5	1.4	20407	824.7	QPSK	3@2	24.19	16.88	0.0487	38.45	PASS
5	1.4	20407	824.7	QPSK	6@0	23.18	15.87	0.0387	38.45	PASS
5	1.4	20407	824.7	16QAM	1@0	23.42	16.11	0.0408	38.45	PASS
5	1.4	20407	824.7	16QAM	1@2	23.36	16.05	0.0402	38.45	PASS
5	1.4	20407	824.7	16QAM	1@5	23.16	15.85	0.0385	38.45	PASS
5	1.4	20407	824.7	16QAM	3@0	23.12	15.81	0.0381	38.45	PASS
5	1.4	20407	824.7	16QAM	3@1	23.05	15.74	0.0375	38.45	PASS
5	1.4	20407	824.7	16QAM	3@2	23.05	15.74	0.0375	38.45	PASS
5	1.4	20407	824.7	16QAM	6@0	22.04	14.73	0.0297	38.45	PASS
5	1.4	20525	836.5	QPSK	1@0	23.68	16.37	0.0434	38.45	PASS
5	1.4	20525	836.5	QPSK	1@2	23.7	16.39	0.0436	38.45	PASS
5	1.4	20525	836.5	QPSK	1@5	23.77	16.46	0.0442	38.45	PASS
5	1.4	20525	836.5	QPSK	3@0	23.8	16.49	0.0445	38.45	PASS
5	1.4	20525	836.5	QPSK	3@1	23.66	16.35	0.0431	38.45	PASS
5	1.4	20525	836.5	QPSK	3@2	23.8	16.49	0.0446	38.45	PASS
5	1.4	20525	836.5	QPSK	6@0	22.64	15.33	0.0341	38.45	PASS
5	1.4	20525	836.5	16QAM	1@0	21.5	14.19	0.0262	38.45	PASS
5	1.4	20525	836.5	16QAM	1@2	21.57	14.26	0.0267	38.45	PASS
5	1.4	20525	836.5	16QAM	1@5	21.48	14.17	0.0261	38.45	PASS
5	1.4	20525	836.5	16QAM	3@0	22.67	15.36	0.0344	38.45	PASS
5	1.4	20525	836.5	16QAM	3@1	22.56	15.25	0.0335	38.45	PASS
5	1.4	20525	836.5	16QAM	3@2	22.67	15.36	0.0344	38.45	PASS
5	1.4	20525	836.5	16QAM	6@0	21.93	14.62	0.029	38.45	PASS
5	1.4	20643	848.3	QPSK	1@0	23.54	16.23	0.042	38.45	PASS
5	1.4	20643	848.3	QPSK	1@2	23.61	16.3	0.0427	38.45	PASS
5	1.4	20643	848.3	QPSK	1@5	23.6	16.29	0.0426	38.45	PASS
5	1.4	20643	848.3	QPSK	3@0	23.69	16.38	0.0434	38.45	PASS
5	1.4	20643	848.3	QPSK	3@1	23.68	16.37	0.0434	38.45	PASS
5	1.4	20643	848.3	QPSK	3@2	23.69	16.38	0.0435	38.45	PASS
5	1.4	20643	848.3	QPSK	6@0	22.5	15.19	0.033	38.45	PASS
5	1.4	20643	848.3	16QAM	1@0	21.98	14.67	0.0293	38.45	PASS
5	1.4	20643	848.3	16QAM	1@2	21.89	14.58	0.0287	38.45	PASS
5	1.4	20643	848.3	16QAM	1@5	21.88	14.57	0.0287	38.45	PASS
5	1.4	20643	848.3	16QAM	3@0	22.28	14.97	0.0314	38.45	PASS
5	1.4	20643	848.3	16QAM	3@1	22.27	14.96	0.0314	38.45	PASS
5	1.4	20643	848.3	16QAM	3@2	22.39	15.08	0.0322	38.45	PASS
5	1.4	20643	848.3	16QAM	6@0	21.68	14.37	0.0274	38.45	PASS
5	3.0	20415	825.5	QPSK	1@0	24.09	16.78	0.0476	38.45	PASS
5	3.0	20415	825.5	QPSK	1@7	23.95	16.64	0.0461	38.45	PASS
5	3.0	20415	825.5	QPSK	1@14	24.07	16.76	0.0474	38.45	PASS
5	3.0	20415	825.5	QPSK	8@0	23.21	15.9	0.0389	38.45	PASS
5	3.0	20415	825.5	QPSK	8@4	23.07	15.76	0.0376	38.45	PASS
5	3.0	20415	825.5	QPSK	8@7	23.21	15.9	0.0389	38.45	PASS
5	3.0	20415	825.5	QPSK	15@0	23.11	15.8	0.038	38.45	PASS
5	3.0	20415	825.5	16QAM	1@0	23.24	15.93	0.0392	38.45	PASS
5	3.0	20415	825.5	16QAM	1@7	23.22	15.91	0.039	38.45	PASS
5	3.0	20415	825.5	16QAM	1@14	23.25	15.94	0.0392	38.45	PASS
5	3.0	20415	825.5	16QAM	8@0	22.17	14.86	0.0306	38.45	PASS
5	3.0	20415	825.5	16QAM	8@4	22.19	14.88	0.0307	38.45	PASS
5	3.0	20415	825.5	16QAM	8@7	22.33	15.02	0.0317	38.45	PASS
5	3.0	20415	825.5	16QAM	15@0	22.22	14.91	0.031	38.45	PASS
5	3.0	20525	836.5	QPSK	1@0	23.83	16.52	0.0449	38.45	PASS
5	3.0	20525	836.5	QPSK	1@7	23.83	16.52	0.0449	38.45	PASS
5	3.0	20525	836.5	QPSK	1@14	23.73	16.42	0.0438	38.45	PASS
5	3.0	20525	836.5	QPSK	8@0	22.64	15.33	0.0341	38.45	PASS
5	3.0	20525	836.5	QPSK	8@4	22.64	15.33	0.0341	38.45	PASS
5	3.0	20525	836.5	QPSK	8@7	22.7	15.39	0.0346	38.45	PASS
5	3.0	20525	836.5	QPSK	15@0	22.81	15.5	0.0355	38.45	PASS
5	3.0	20525	836.5	16QAM	1@0	21.56	14.25	0.0266	38.45	PASS
5	3.0	20525	836.5	16QAM	1@7	21.42	14.11	0.0258	38.45	PASS
5	3.0	20525	836.5	16QAM	1@14	21.48	14.17	0.0261	38.45	PASS
5	3.0	20525	836.5	16QAM	8@0	22.0	14.69	0.0295	38.45	PASS
5	3.0	20525	836.5	16QAM	8@4	22.0	14.69	0.0294	38.45	PASS
5	3.0	20525	836.5	16QAM	8@7	22.02	14.71	0.0296	38.45	PASS
5	3.0	20525	836.5	16QAM	15@0	21.76	14.45	0.0279	38.45	PASS
5	3.0	20635	847.5	QPSK	1@0	23.51	16.2	0.0417	38.45	PASS
5	3.0	20635	847.5	QPSK	1@7	23.55	16.24	0.0421	38.45	PASS
5	3.0	20635	847.5	QPSK	1@14	23.63	16.32	0.0428	38.45	PASS
5	3.0	20635	847.5	QPSK	8@0	22.61	15.3	0.0339	38.45	PASS

5	3.0	20635	847.5	QPSK	8@4	22.62	15.31	0.034	38.45	PASS
5	3.0	20635	847.5	QPSK	8@7	22.56	15.25	0.0335	38.45	PASS
5	3.0	20635	847.5	QPSK	15@0	22.61	15.3	0.0339	38.45	PASS
5	3.0	20635	847.5	16QAM	1@0	22.21	14.9	0.0309	38.45	PASS
5	3.0	20635	847.5	16QAM	1@7	22.06	14.75	0.0298	38.45	PASS
5	3.0	20635	847.5	16QAM	1@14	22.2	14.89	0.0308	38.45	PASS
5	3.0	20635	847.5	16QAM	8@0	21.72	14.41	0.0276	38.45	PASS
5	3.0	20635	847.5	16QAM	8@4	21.73	14.42	0.0277	38.45	PASS
5	3.0	20635	847.5	16QAM	8@7	21.67	14.36	0.0273	38.45	PASS
5	3.0	20635	847.5	16QAM	15@0	21.67	14.36	0.0273	38.45	PASS
5	5.0	20425	826.5	QPSK	1@0	24.31	17.0	0.0502	38.45	PASS
5	5.0	20425	826.5	QPSK	1@12	24.32	17.01	0.0502	38.45	PASS
5	5.0	20425	826.5	QPSK	1@24	24.25	16.94	0.0494	38.45	PASS
5	5.0	20425	826.5	QPSK	12@0	23.08	15.77	0.0378	38.45	PASS
5	5.0	20425	826.5	QPSK	12@6	23.1	15.79	0.0379	38.45	PASS
5	5.0	20425	826.5	QPSK	12@11	23.09	15.78	0.0378	38.45	PASS
5	5.0	20425	826.5	QPSK	25@0	23.08	15.77	0.0377	38.45	PASS
5	5.0	20425	826.5	16QAM	1@0	22.79	15.48	0.0353	38.45	PASS
5	5.0	20425	826.5	16QAM	1@12	22.79	15.48	0.0353	38.45	PASS
5	5.0	20425	826.5	16QAM	1@24	22.72	15.41	0.0348	38.45	PASS
5	5.0	20425	826.5	16QAM	12@0	21.97	14.66	0.0292	38.45	PASS
5	5.0	20425	826.5	16QAM	12@6	21.98	14.67	0.0293	38.45	PASS
5	5.0	20425	826.5	16QAM	12@11	21.98	14.67	0.0293	38.45	PASS
5	5.0	20425	826.5	16QAM	25@0	22.05	14.74	0.0298	38.45	PASS
5	5.0	20525	836.5	QPSK	1@0	23.66	16.35	0.0432	38.45	PASS
5	5.0	20525	836.5	QPSK	1@12	23.67	16.36	0.0433	38.45	PASS
5	5.0	20525	836.5	QPSK	1@24	23.59	16.28	0.0425	38.45	PASS
5	5.0	20525	836.5	QPSK	12@0	22.68	15.37	0.0345	38.45	PASS
5	5.0	20525	836.5	QPSK	12@6	22.68	15.37	0.0345	38.45	PASS
5	5.0	20525	836.5	QPSK	12@11	22.69	15.38	0.0345	38.45	PASS
5	5.0	20525	836.5	QPSK	25@0	22.73	15.42	0.0348	38.45	PASS
5	5.0	20525	836.5	16QAM	1@0	22.27	14.96	0.0313	38.45	PASS
5	5.0	20525	836.5	16QAM	1@12	22.2	14.89	0.0309	38.45	PASS
5	5.0	20525	836.5	16QAM	1@24	22.33	15.02	0.0318	38.45	PASS
5	5.0	20525	836.5	16QAM	12@0	21.56	14.25	0.0266	38.45	PASS
5	5.0	20525	836.5	16QAM	12@6	21.81	14.5	0.0282	38.45	PASS
5	5.0	20525	836.5	16QAM	12@11	21.82	14.51	0.0282	38.45	PASS
5	5.0	20525	836.5	16QAM	25@0	21.84	14.53	0.0284	38.45	PASS
5	5.0	20625	846.5	QPSK	1@0	23.47	16.16	0.0413	38.45	PASS
5	5.0	20625	846.5	QPSK	1@12	23.51	16.2	0.0417	38.45	PASS
5	5.0	20625	846.5	QPSK	1@24	23.58	16.27	0.0424	38.45	PASS
5	5.0	20625	846.5	QPSK	12@0	22.5	15.19	0.0331	38.45	PASS
5	5.0	20625	846.5	QPSK	12@6	22.63	15.32	0.034	38.45	PASS
5	5.0	20625	846.5	QPSK	12@11	22.62	15.31	0.034	38.45	PASS
5	5.0	20625	846.5	QPSK	25@0	22.59	15.28	0.0338	38.45	PASS
5	5.0	20625	846.5	16QAM	1@0	21.06	13.75	0.0237	38.45	PASS
5	5.0	20625	846.5	16QAM	1@12	21.13	13.82	0.0241	38.45	PASS
5	5.0	20625	846.5	16QAM	1@24	21.07	13.76	0.0238	38.45	PASS
5	5.0	20625	846.5	16QAM	12@0	21.63	14.32	0.027	38.45	PASS
5	5.0	20625	846.5	16QAM	12@6	21.64	14.33	0.0271	38.45	PASS
5	5.0	20625	846.5	16QAM	12@11	21.64	14.33	0.0271	38.45	PASS
5	5.0	20625	846.5	16QAM	25@0	21.77	14.46	0.0279	38.45	PASS
5	10.0	20450	829.0	QPSK	1@0	24.15	16.84	0.0483	38.45	PASS
5	10.0	20450	829.0	QPSK	1@24	23.97	16.66	0.0463	38.45	PASS
5	10.0	20450	829.0	QPSK	1@49	23.79	16.48	0.0444	38.45	PASS
5	10.0	20450	829.0	QPSK	25@0	22.97	15.66	0.0369	38.45	PASS
5	10.0	20450	829.0	QPSK	25@12	23.13	15.82	0.0382	38.45	PASS
5	10.0	20450	829.0	QPSK	25@24	23.12	15.81	0.0381	38.45	PASS
5	10.0	20450	829.0	QPSK	50@0	22.94	15.63	0.0366	38.45	PASS
5	10.0	20450	829.0	16QAM	1@0	22.62	15.31	0.034	38.45	PASS
5	10.0	20450	829.0	16QAM	1@24	22.39	15.08	0.0322	38.45	PASS
5	10.0	20450	829.0	16QAM	1@49	22.47	15.16	0.0328	38.45	PASS
5	10.0	20450	829.0	16QAM	25@0	22.26	14.95	0.0313	38.45	PASS
5	10.0	20450	829.0	16QAM	25@12	22.26	14.95	0.0313	38.45	PASS
5	10.0	20450	829.0	16QAM	25@24	22.02	14.71	0.0296	38.45	PASS
5	10.0	20450	829.0	16QAM	50@0	22.02	14.71	0.0296	38.45	PASS
5	10.0	20525	836.5	QPSK	1@0	23.72	16.41	0.0438	38.45	PASS
5	10.0	20525	836.5	QPSK	1@24	23.5	16.19	0.0416	38.45	PASS
5	10.0	20525	836.5	QPSK	1@49	23.34	16.03	0.0401	38.45	PASS
5	10.0	20525	836.5	QPSK	25@0	22.68	15.37	0.0344	38.45	PASS
5	10.0	20525	836.5	QPSK	25@12	22.67	15.36	0.0344	38.45	PASS
5	10.0	20525	836.5	QPSK	25@24	22.68	15.37	0.0344	38.45	PASS
5	10.0	20525	836.5	QPSK	50@0	22.75	15.44	0.035	38.45	PASS
5	10.0	20525	836.5	16QAM	1@0	21.92	14.61	0.0289	38.45	PASS
5	10.0	20525	836.5	16QAM	1@24	21.72	14.41	0.0276	38.45	PASS
5	10.0	20525	836.5	16QAM	1@49	21.39	14.08	0.0256	38.45	PASS
5	10.0	20525	836.5	16QAM	25@0	21.97	14.66	0.0293	38.45	PASS
5	10.0	20525	836.5	16QAM	25@12	21.72	14.41	0.0276	38.45	PASS
5	10.0	20525	836.5	16QAM	25@24	21.83	14.52	0.0283	38.45	PASS
5	10.0	20525	836.5	16QAM	50@0	21.82	14.51	0.0282	38.45	PASS
5	10.0	20600	844.0	QPSK	1@0	23.59	16.28	0.0425	38.45	PASS
5	10.0	20600	844.0	QPSK	1@24	23.48	16.17	0.0414	38.45	PASS
5	10.0	20600	844.0	QPSK	1@49	23.62	16.31	0.0428	38.45	PASS
5	10.0	20600	844.0	QPSK	25@0	22.43	15.12	0.0325	38.45	PASS
5	10.0	20600	844.0	QPSK	25@12	22.46	15.15	0.0327	38.45	PASS
5	10.0	20600	844.0	QPSK	25@24	22.46	15.15	0.0327	38.45	PASS

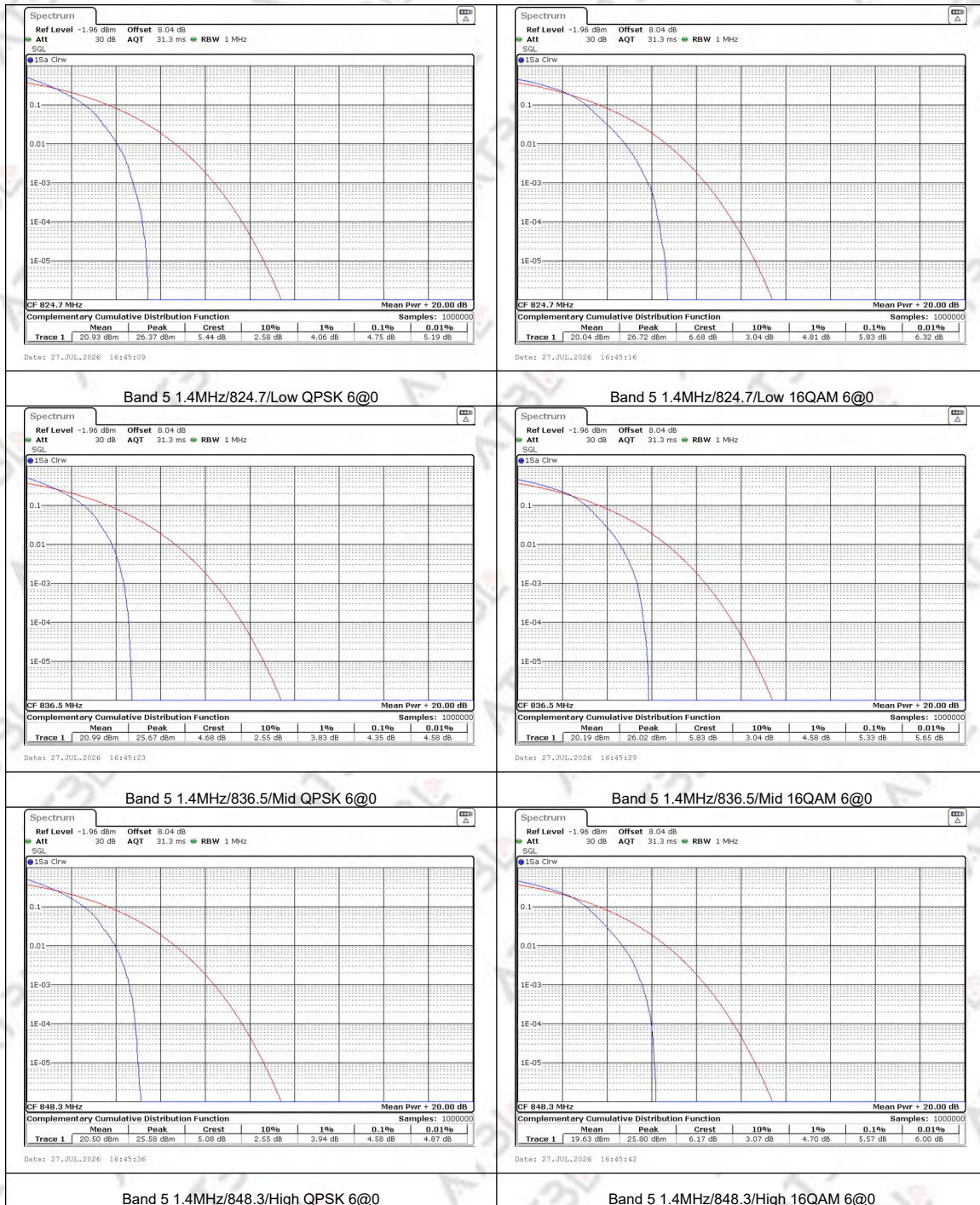
5	10.0	20600	844.0	QPSK	50@0	22.57	15.26	0.0336	38.45	PASS
5	10.0	20600	844.0	16QAM	1@0	22.45	15.14	0.0327	38.45	PASS
5	10.0	20600	844.0	16QAM	1@24	22.27	14.96	0.0313	38.45	PASS
5	10.0	20600	844.0	16QAM	1@49	22.3	14.99	0.0316	38.45	PASS
5	10.0	20600	844.0	16QAM	25@0	21.49	14.18	0.0262	38.45	PASS
5	10.0	20600	844.0	16QAM	25@12	21.68	14.37	0.0273	38.45	PASS
5	10.0	20600	844.0	16QAM	25@24	21.51	14.2	0.0263	38.45	PASS
5	10.0	20600	844.0	16QAM	50@0	21.62	14.31	0.027	38.45	PASS

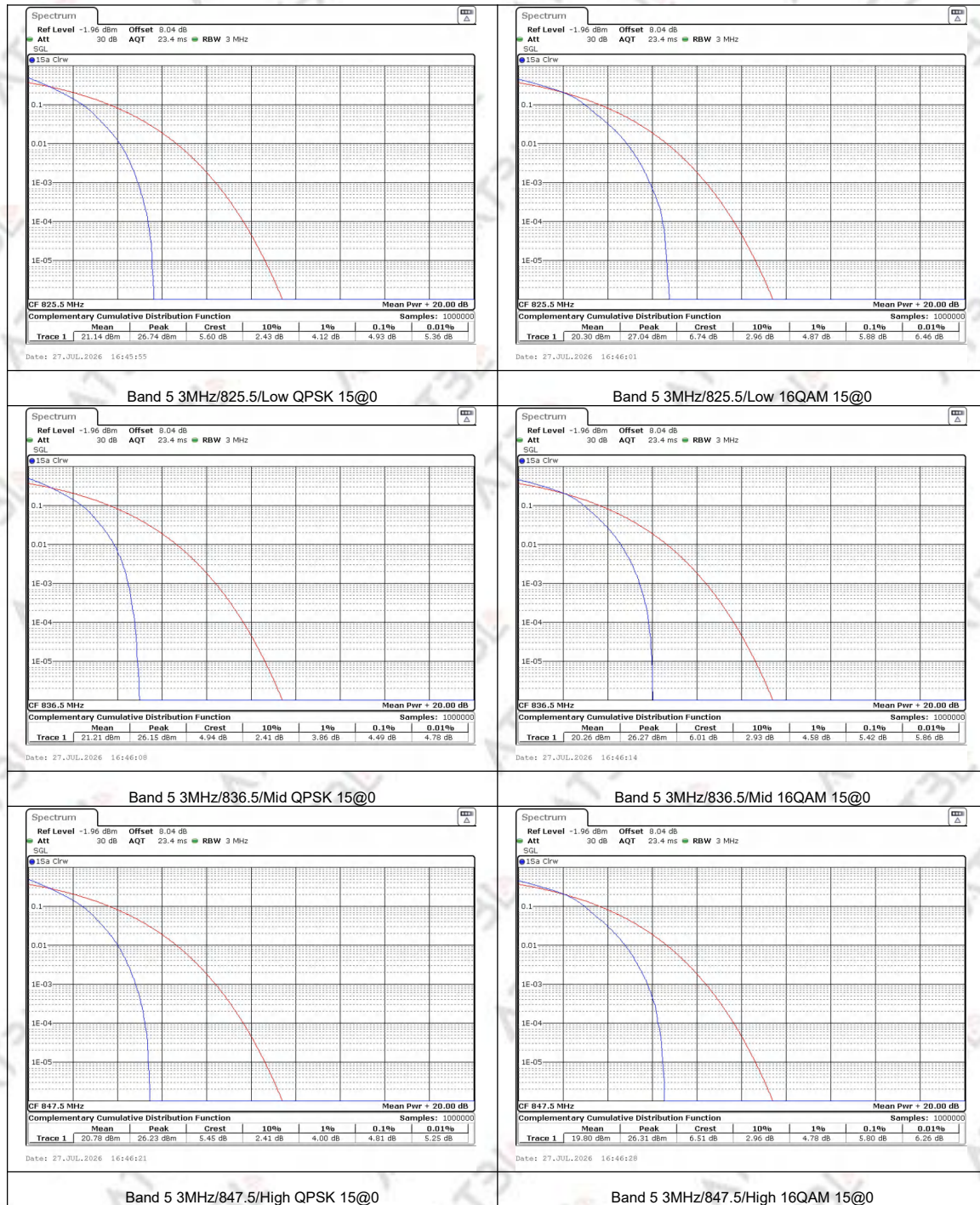
2. Peak to Average Ratio

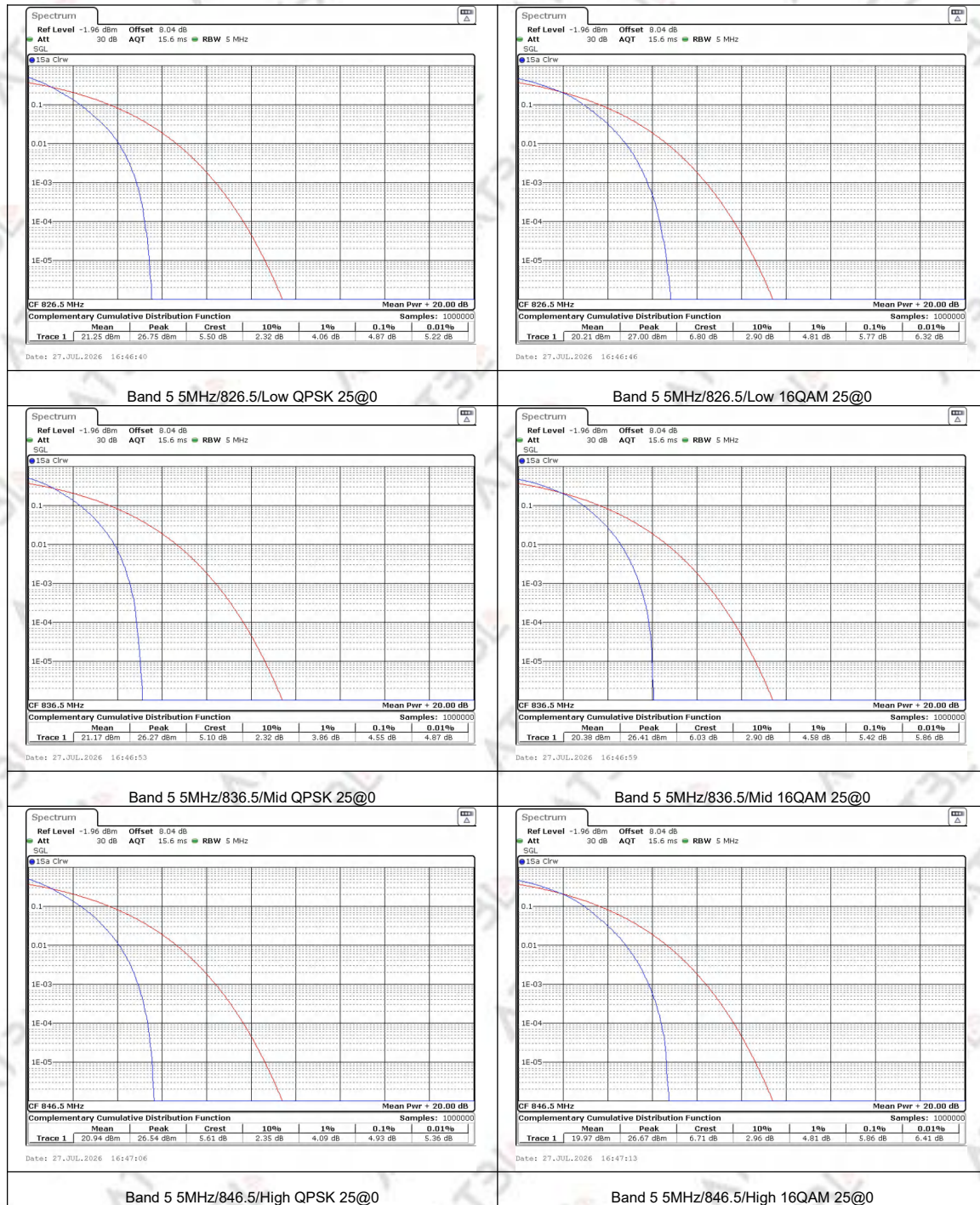
Test Result

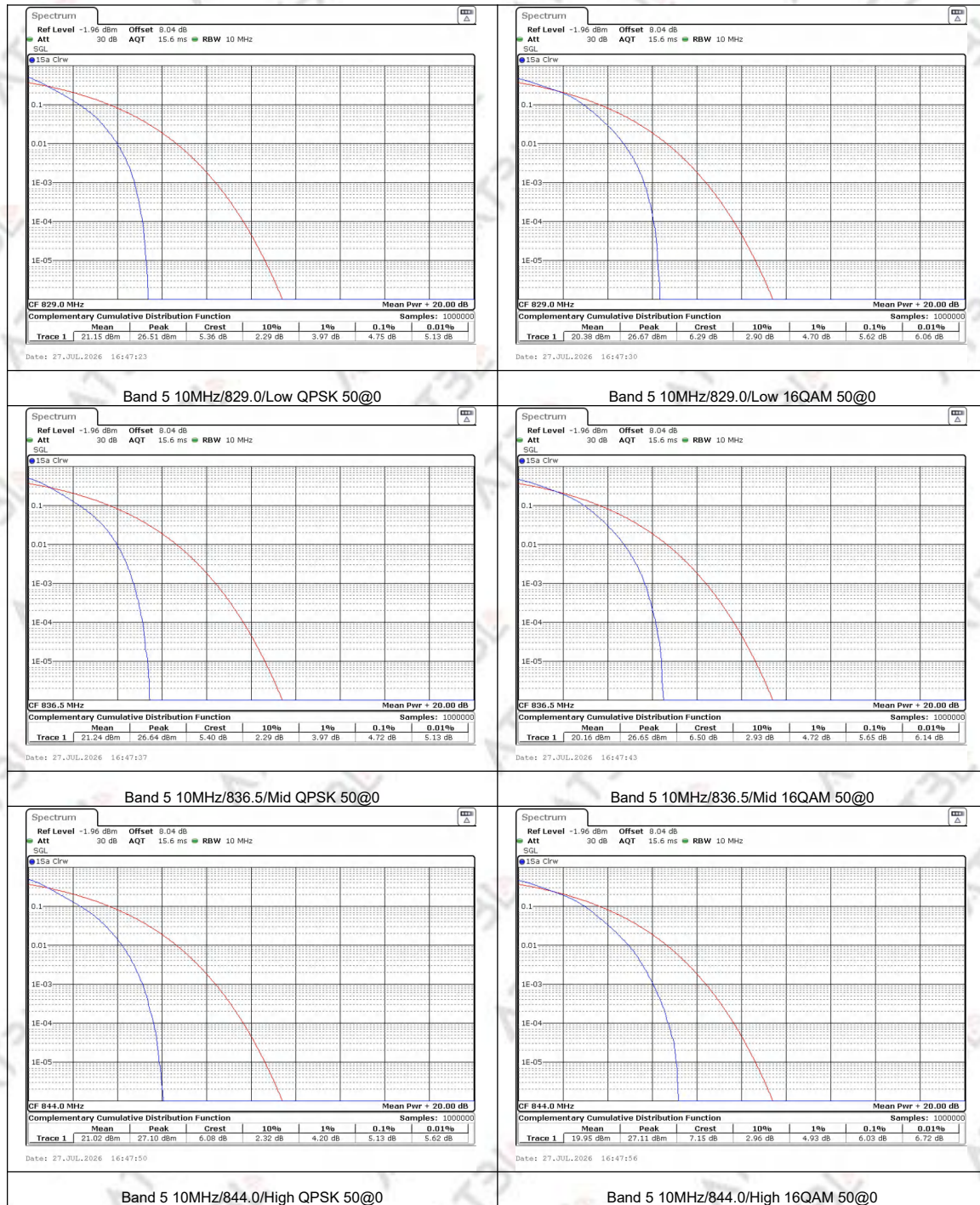
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
5	1.4	20407	824.7	QPSK	6@0	4.75	13	PASS
5	1.4	20407	824.7	16QAM	6@0	5.83	13	PASS
5	1.4	20525	836.5	QPSK	6@0	4.35	13	PASS
5	1.4	20525	836.5	16QAM	6@0	5.33	13	PASS
5	1.4	20643	848.3	QPSK	6@0	4.58	13	PASS
5	1.4	20643	848.3	16QAM	6@0	5.57	13	PASS
5	3.0	20415	825.5	QPSK	15@0	4.93	13	PASS
5	3.0	20415	825.5	16QAM	15@0	5.88	13	PASS
5	3.0	20525	836.5	QPSK	15@0	4.49	13	PASS
5	3.0	20525	836.5	16QAM	15@0	5.42	13	PASS
5	3.0	20635	847.5	QPSK	15@0	4.81	13	PASS
5	3.0	20635	847.5	16QAM	15@0	5.8	13	PASS
5	5.0	20425	826.5	QPSK	25@0	4.87	13	PASS
5	5.0	20425	826.5	16QAM	25@0	5.77	13	PASS
5	5.0	20525	836.5	QPSK	25@0	4.55	13	PASS
5	5.0	20525	836.5	16QAM	25@0	5.42	13	PASS
5	5.0	20625	846.5	QPSK	25@0	4.93	13	PASS
5	5.0	20625	846.5	16QAM	25@0	5.86	13	PASS
5	10.0	20450	829.0	QPSK	50@0	4.75	13	PASS
5	10.0	20450	829.0	16QAM	50@0	5.62	13	PASS
5	10.0	20525	836.5	QPSK	50@0	4.72	13	PASS
5	10.0	20525	836.5	16QAM	50@0	5.65	13	PASS
5	10.0	20600	844.0	QPSK	50@0	5.13	13	PASS
5	10.0	20600	844.0	16QAM	50@0	6.03	13	PASS

Test Graphs







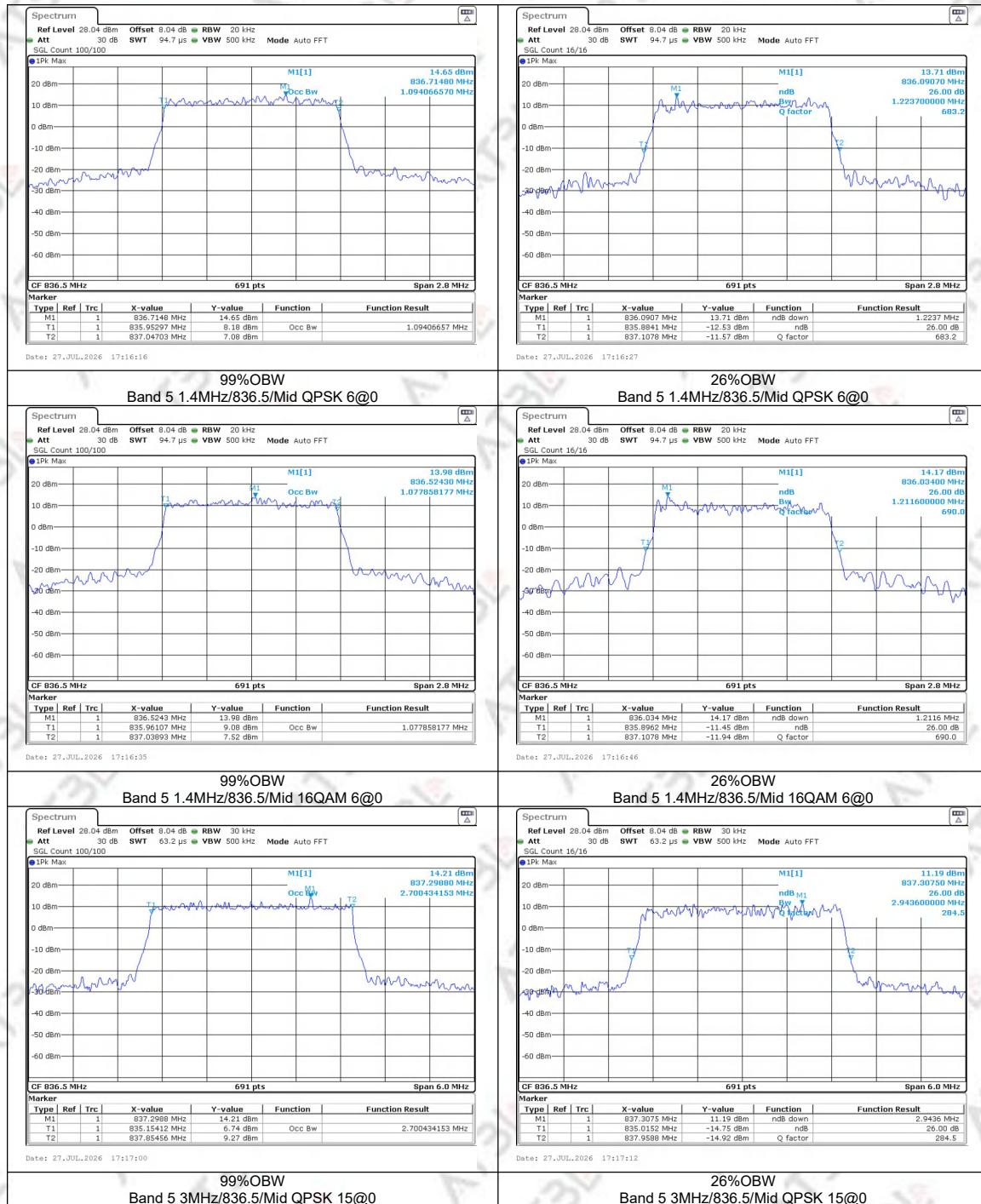


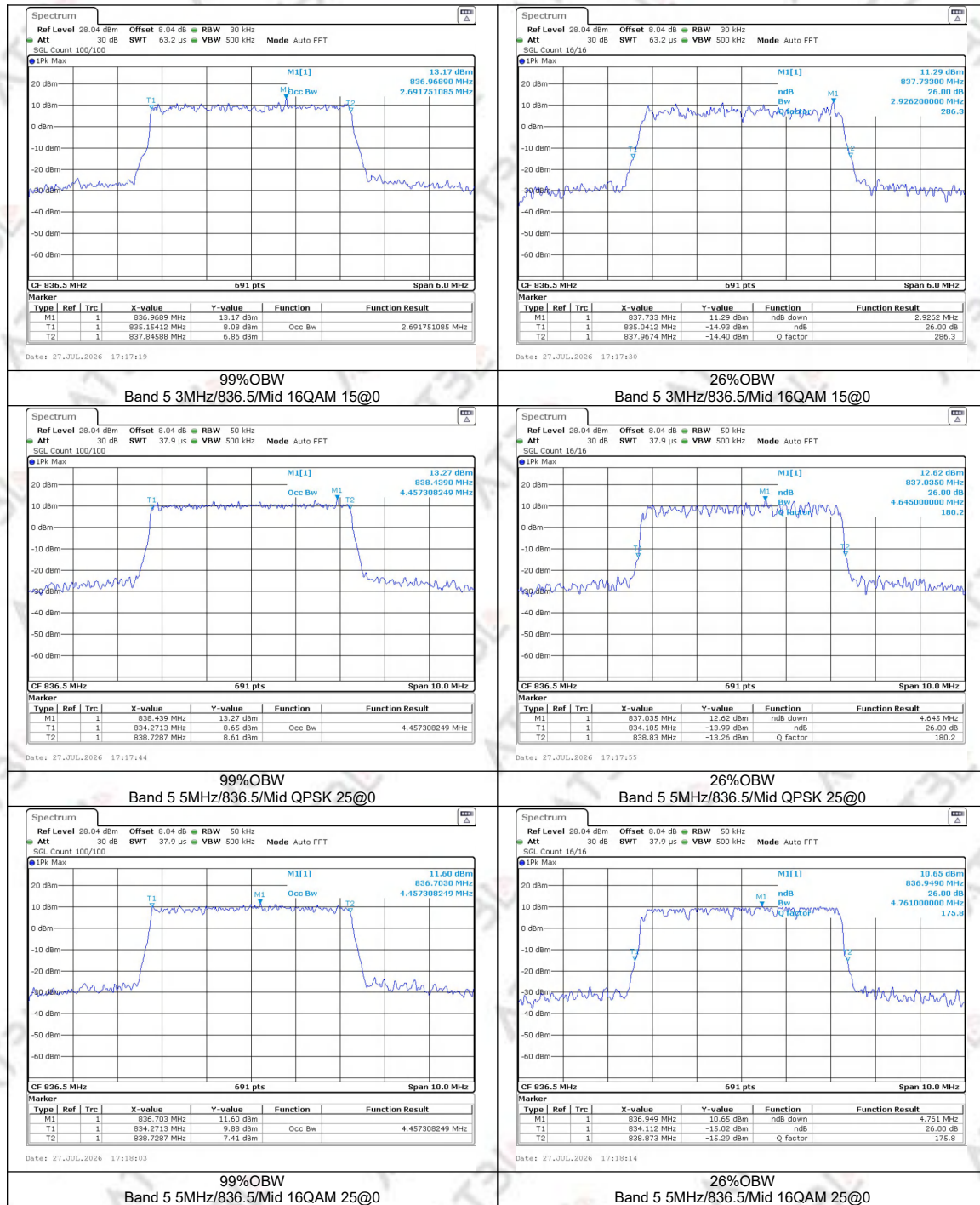
3.Occupied Bandwidth

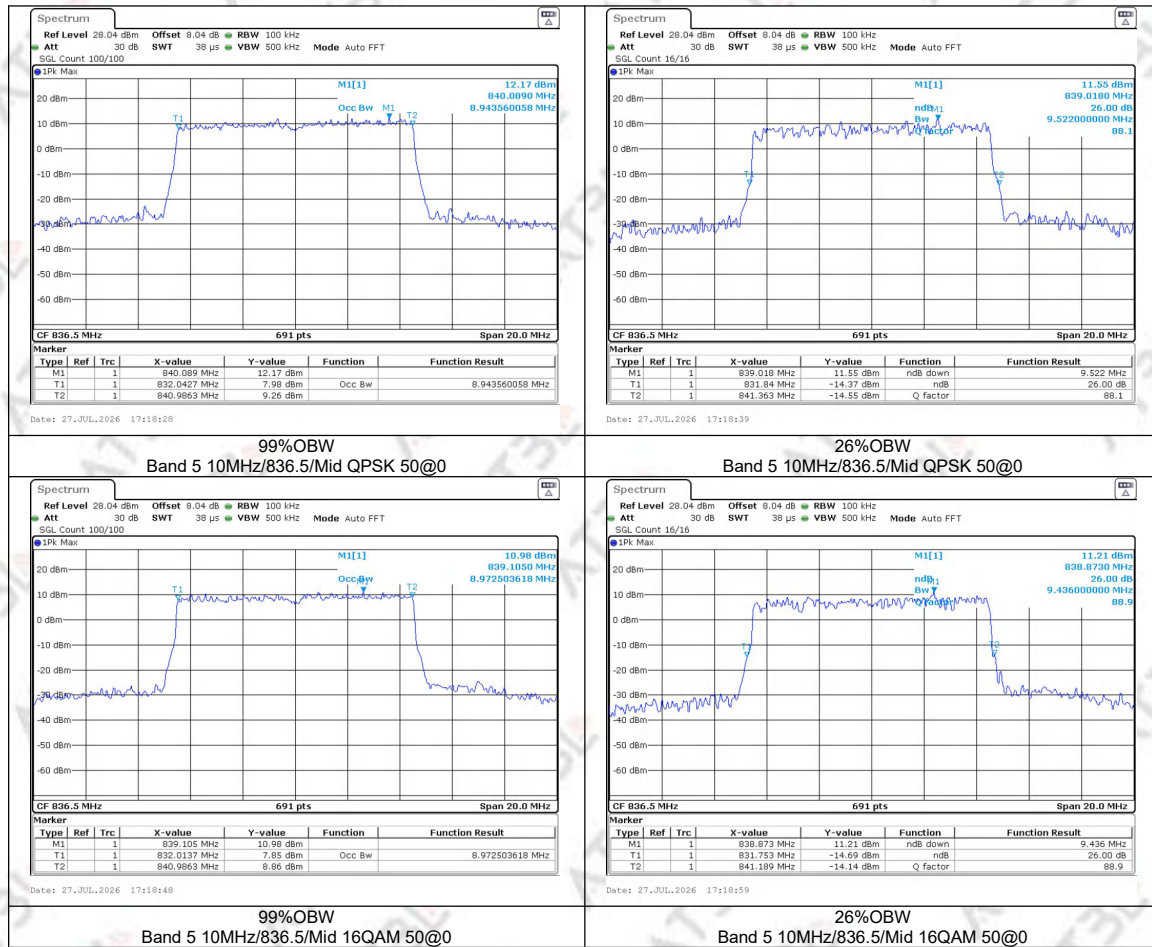
Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
5	1.4	20525	836.5	QPSK	6@0	1.0941	1.224	PASS
5	1.4	20525	836.5	16QAM	6@0	1.0779	1.212	PASS
5	3.0	20525	836.5	QPSK	15@0	2.7004	2.944	PASS
5	3.0	20525	836.5	16QAM	15@0	2.6918	2.926	PASS
5	5.0	20525	836.5	QPSK	25@0	4.4573	4.645	PASS
5	5.0	20525	836.5	16QAM	25@0	4.4573	4.761	PASS
5	10.0	20525	836.5	QPSK	50@0	8.9436	9.522	PASS
5	10.0	20525	836.5	16QAM	50@0	8.9725	9.436	PASS

Test Graphs







4. Conducted Band Edge

Test Result

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
5	1.4	20407	824.7	QPSK	1@0	see graph	PASS
5	1.4	20407	824.7	QPSK	1@5	see graph	PASS
5	1.4	20407	824.7	QPSK	6@0	see graph	PASS
5	1.4	20407	824.7	16QAM	1@0	see graph	PASS
5	1.4	20407	824.7	16QAM	1@5	see graph	PASS
5	1.4	20407	824.7	16QAM	6@0	see graph	PASS
5	1.4	20643	848.3	QPSK	1@0	see graph	PASS
5	1.4	20643	848.3	QPSK	1@5	see graph	PASS
5	1.4	20643	848.3	QPSK	6@0	see graph	PASS
5	1.4	20643	848.3	16QAM	1@0	see graph	PASS
5	1.4	20643	848.3	16QAM	1@5	see graph	PASS
5	1.4	20643	848.3	16QAM	6@0	see graph	PASS
5	3.0	20415	825.5	QPSK	1@0	see graph	PASS
5	3.0	20415	825.5	QPSK	1@14	see graph	PASS
5	3.0	20415	825.5	QPSK	15@0	see graph	PASS
5	3.0	20415	825.5	16QAM	1@0	see graph	PASS
5	3.0	20415	825.5	16QAM	1@14	see graph	PASS
5	3.0	20415	825.5	16QAM	15@0	see graph	PASS
5	3.0	20635	847.5	QPSK	1@0	see graph	PASS
5	3.0	20635	847.5	QPSK	1@14	see graph	PASS
5	3.0	20635	847.5	QPSK	15@0	see graph	PASS
5	3.0	20635	847.5	16QAM	1@0	see graph	PASS
5	3.0	20635	847.5	16QAM	1@14	see graph	PASS
5	3.0	20635	847.5	16QAM	15@0	see graph	PASS
5	5.0	20425	826.5	QPSK	1@0	see graph	PASS
5	5.0	20425	826.5	QPSK	1@24	see graph	PASS
5	5.0	20425	826.5	QPSK	25@0	see graph	PASS
5	5.0	20425	826.5	16QAM	1@0	see graph	PASS
5	5.0	20425	826.5	16QAM	1@24	see graph	PASS
5	5.0	20425	826.5	16QAM	25@0	see graph	PASS
5	5.0	20625	846.5	QPSK	1@0	see graph	PASS
5	5.0	20625	846.5	QPSK	1@24	see graph	PASS
5	5.0	20625	846.5	QPSK	25@0	see graph	PASS
5	5.0	20625	846.5	16QAM	1@0	see graph	PASS
5	5.0	20625	846.5	16QAM	1@24	see graph	PASS
5	5.0	20625	846.5	16QAM	25@0	see graph	PASS
5	10.0	20450	829.0	QPSK	1@0	see graph	PASS
5	10.0	20450	829.0	QPSK	1@49	see graph	PASS
5	10.0	20450	829.0	QPSK	50@0	see graph	PASS
5	10.0	20450	829.0	16QAM	1@0	see graph	PASS
5	10.0	20450	829.0	16QAM	1@49	see graph	PASS
5	10.0	20450	829.0	16QAM	50@0	see graph	PASS
5	10.0	20600	844.0	QPSK	1@0	see graph	PASS
5	10.0	20600	844.0	QPSK	1@49	see graph	PASS
5	10.0	20600	844.0	QPSK	50@0	see graph	PASS
5	10.0	20600	844.0	16QAM	1@0	see graph	PASS
5	10.0	20600	844.0	16QAM	1@49	see graph	PASS
5	10.0	20600	844.0	16QAM	50@0	see graph	PASS

Test Graphs

