

Appendix-B LTE Cat M1 Band 85

Effective (Isotropic) Radiated Power Output Data for M1

Test Result

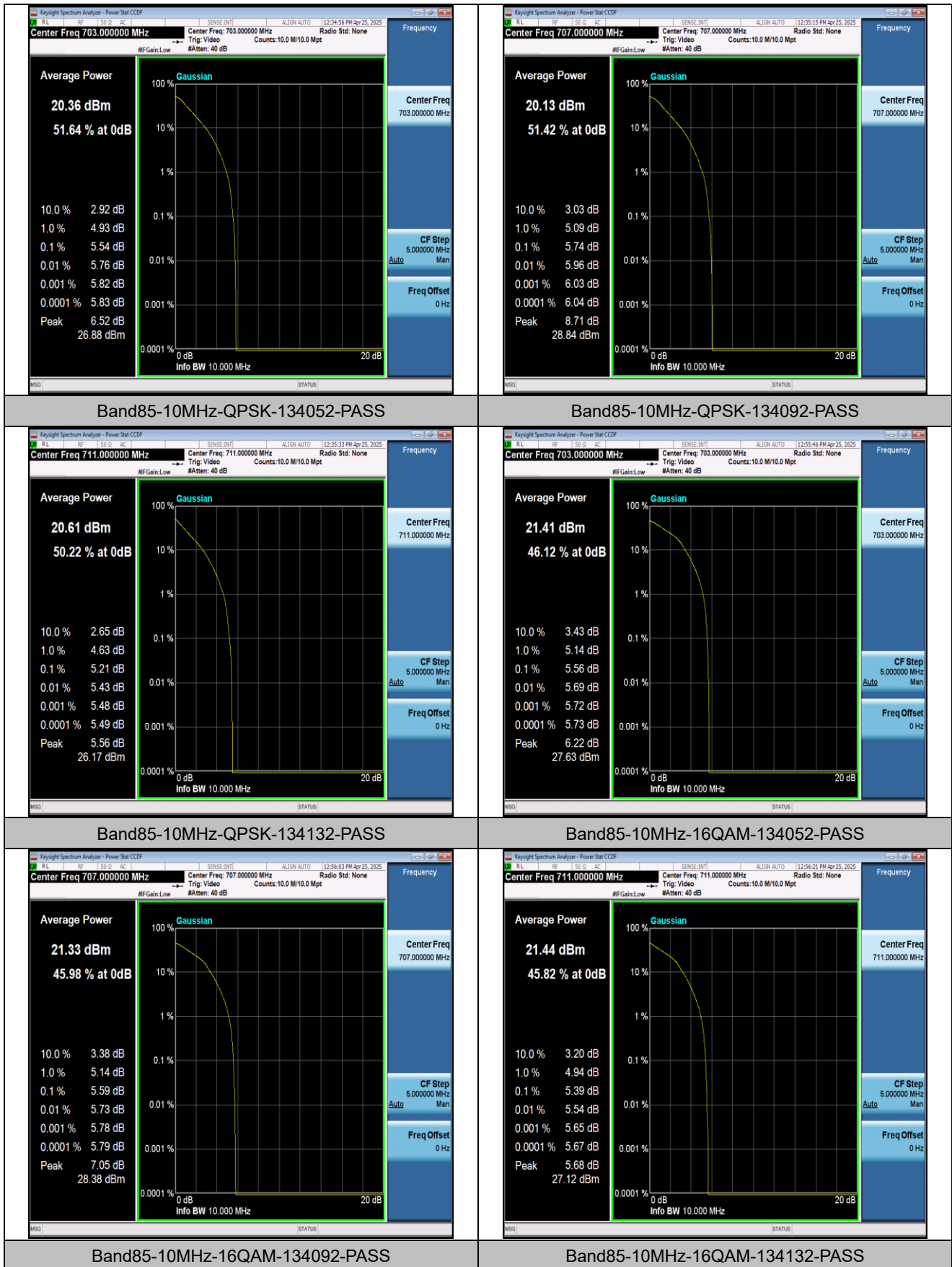
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band85	5MHz	QPSK	134027	1	0	Low	21.17	22.97	34.77	PASS
Band85	5MHz	QPSK	134027	1	5	Low	20.99	22.79	34.77	PASS
Band85	5MHz	QPSK	134027	6	0	Low	20.34	22.14	34.77	PASS
Band85	5MHz	QPSK	134092	1	0	Low	21.23	23.03	34.77	PASS
Band85	5MHz	QPSK	134092	1	5	Low	20.94	22.74	34.77	PASS
Band85	5MHz	QPSK	134092	6	0	Low	20.37	22.17	34.77	PASS
Band85	5MHz	QPSK	134157	1	0	High	21.01	22.81	34.77	PASS
Band85	5MHz	QPSK	134157	1	5	High	20.69	22.49	34.77	PASS
Band85	5MHz	QPSK	134157	6	0	High	20.10	21.9	34.77	PASS
Band85	10MHz	QPSK	134052	1	0	Low	21.19	22.99	34.77	PASS
Band85	10MHz	QPSK	134052	1	5	Low	20.93	22.73	34.77	PASS
Band85	10MHz	QPSK	134052	6	0	Low	20.33	22.13	34.77	PASS
Band85	10MHz	QPSK	134092	1	0	Low	21.21	23.01	34.77	PASS
Band85	10MHz	QPSK	134092	1	5	Low	20.98	22.78	34.77	PASS
Band85	10MHz	QPSK	134092	6	0	Low	20.25	22.05	34.77	PASS
Band85	10MHz	QPSK	134132	1	0	High	21.02	22.82	34.77	PASS
Band85	10MHz	QPSK	134132	1	5	High	20.71	22.51	34.77	PASS
Band85	10MHz	QPSK	134132	6	0	High	19.99	21.79	34.77	PASS
Band85	5MHz	16QAM	134027	1	0	Low	21.27	23.07	34.77	PASS
Band85	5MHz	16QAM	134027	1	5	Low	21.04	22.84	34.77	PASS
Band85	5MHz	16QAM	134027	5	0	Low	20.07	21.87	34.77	PASS
Band85	5MHz	16QAM	134092	1	0	Low	21.20	23	34.77	PASS
Band85	5MHz	16QAM	134092	1	5	Low	20.75	22.55	34.77	PASS
Band85	5MHz	16QAM	134092	5	0	Low	19.98	21.78	34.77	PASS
Band85	5MHz	16QAM	134157	1	0	High	21.11	22.91	34.77	PASS
Band85	5MHz	16QAM	134157	1	5	High	20.80	22.6	34.77	PASS
Band85	5MHz	16QAM	134157	5	0	High	19.97	21.77	34.77	PASS
Band85	10MHz	16QAM	134052	1	0	Low	21.11	22.91	34.77	PASS
Band85	10MHz	16QAM	134052	1	5	Low	20.79	22.59	34.77	PASS
Band85	10MHz	16QAM	134052	5	0	Low	21.10	22.9	34.77	PASS
Band85	10MHz	16QAM	134092	1	0	Low	20.99	22.79	34.77	PASS
Band85	10MHz	16QAM	134092	1	5	Low	20.84	22.64	34.77	PASS
Band85	10MHz	16QAM	134092	5	0	Low	21.01	22.81	34.77	PASS
Band85	10MHz	16QAM	134132	1	0	High	20.98	22.78	34.77	PASS
Band85	10MHz	16QAM	134132	1	5	High	20.76	22.56	34.77	PASS
Band85	10MHz	16QAM	134132	5	0	High	21.04	22.84	34.77	PASS

Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band85	10MHz	QPSK	134052	6	0	Low	5.54	<=13	PASS
Band85	10MHz	QPSK	134092	6	0	Low	5.74	<=13	PASS
Band85	10MHz	QPSK	134132	6	0	High	5.21	<=13	PASS
Band85	10MHz	16QAM	134052	5	0	Low	5.56	<=13	PASS
Band85	10MHz	16QAM	134092	5	0	Low	5.59	<=13	PASS
Band85	10MHz	16QAM	134132	5	0	High	5.39	<=13	PASS

Test Graphs

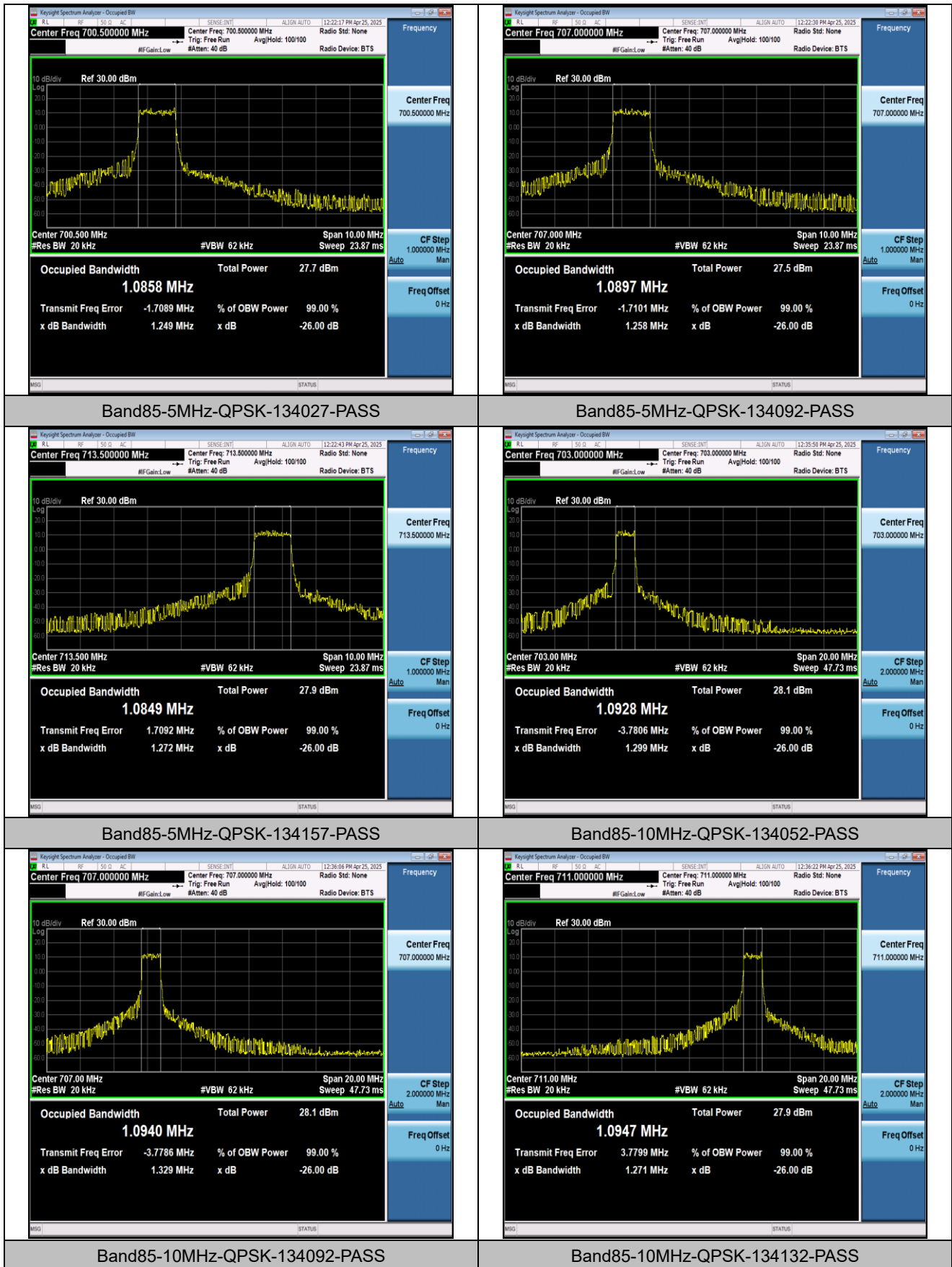


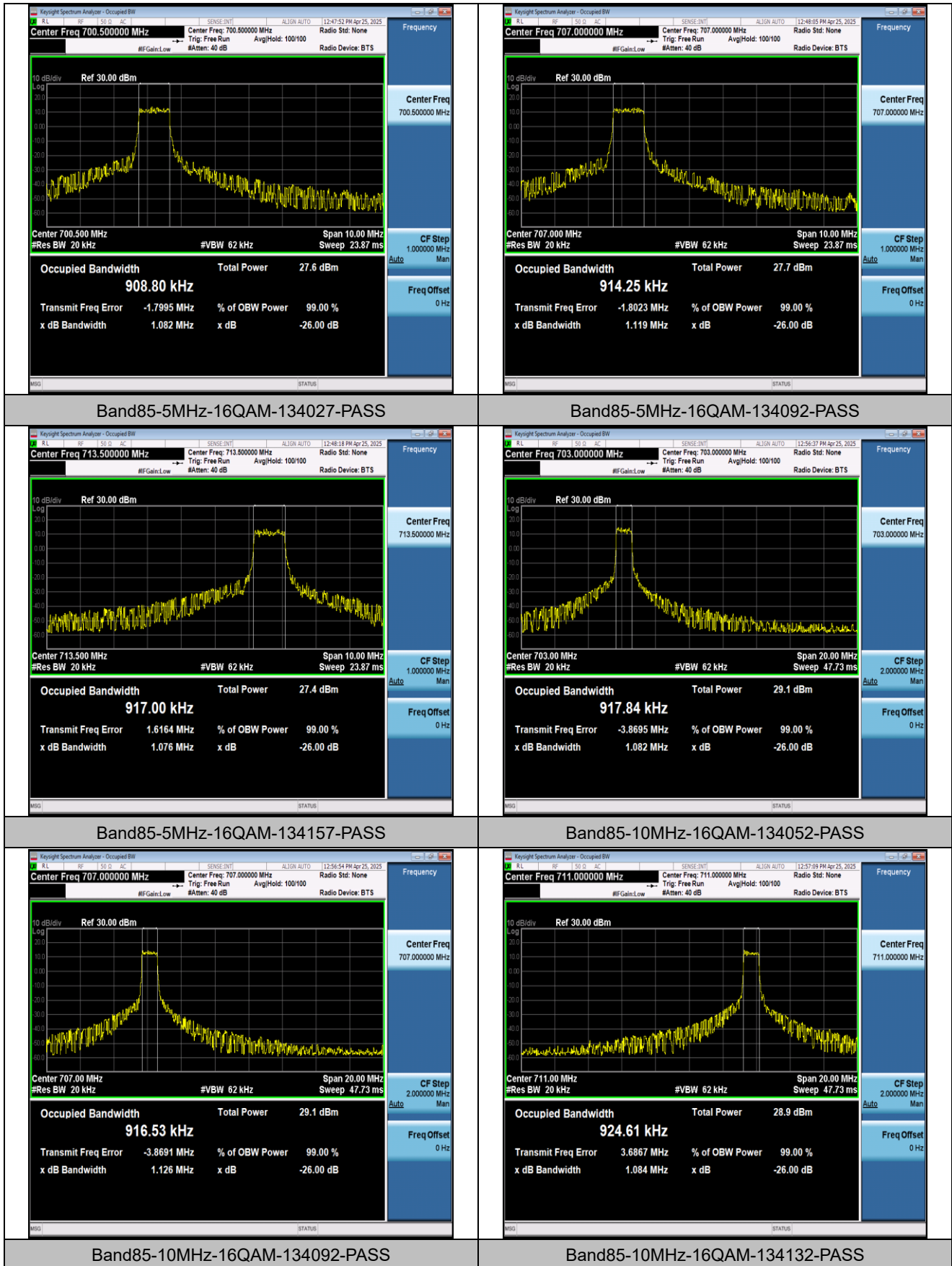
26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band85	5MHz	QPSK	134027	6	0	Low	1.0858	1.249	PASS
Band85	5MHz	QPSK	134092	6	0	Low	1.0897	1.258	PASS
Band85	5MHz	QPSK	134157	6	0	High	1.0849	1.272	PASS
Band85	10MHz	QPSK	134052	6	0	Low	1.0928	1.299	PASS
Band85	10MHz	QPSK	134092	6	0	Low	1.0940	1.329	PASS
Band85	10MHz	QPSK	134132	6	0	High	1.0947	1.271	PASS
Band85	5MHz	16QAM	134027	5	0	Low	0.90880	1.082	PASS
Band85	5MHz	16QAM	134092	5	0	Low	0.91425	1.119	PASS
Band85	5MHz	16QAM	134157	5	0	High	0.91700	1.076	PASS
Band85	10MHz	16QAM	134052	5	0	Low	0.91784	1.082	PASS
Band85	10MHz	16QAM	134092	5	0	Low	0.91653	1.126	PASS
Band85	10MHz	16QAM	134132	5	0	High	0.92461	1.084	PASS

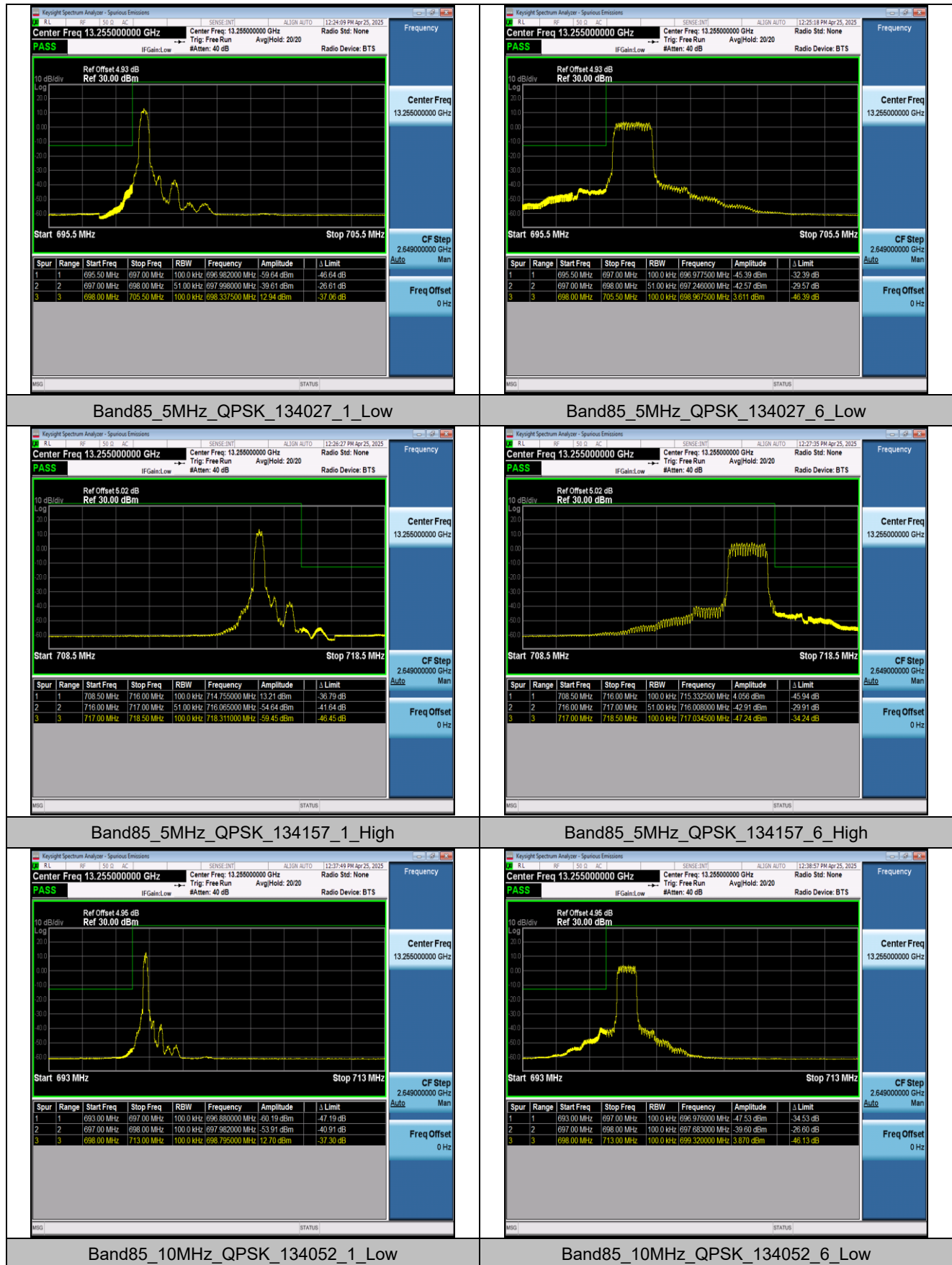
Test Graphs

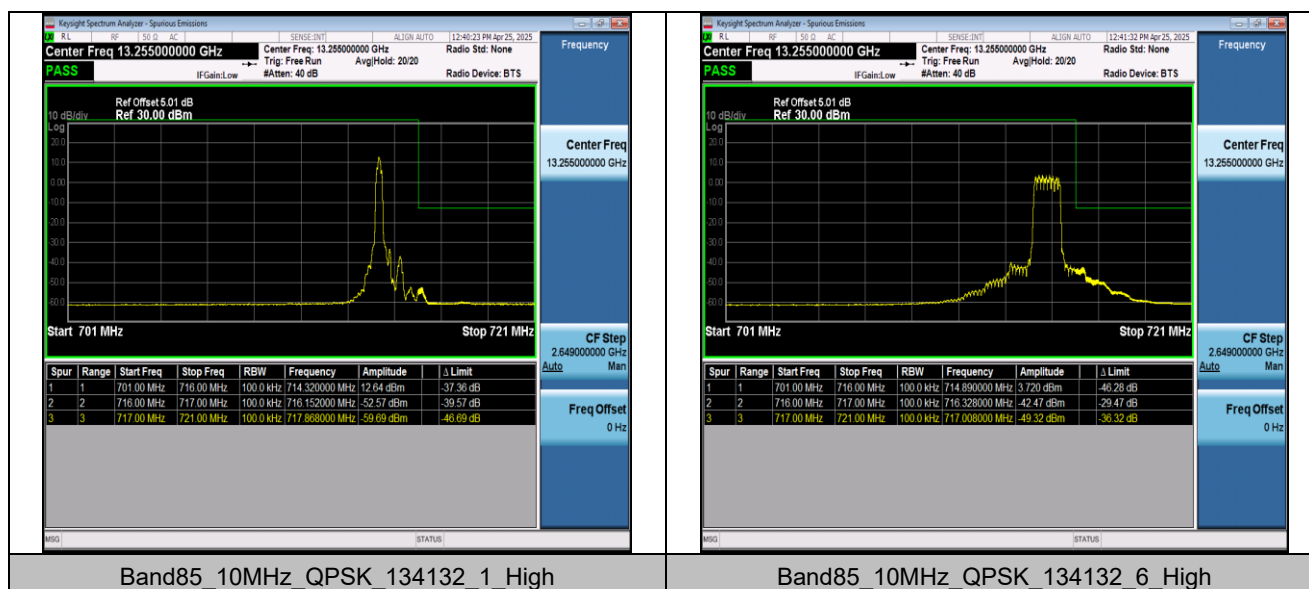




Band Edge for M1

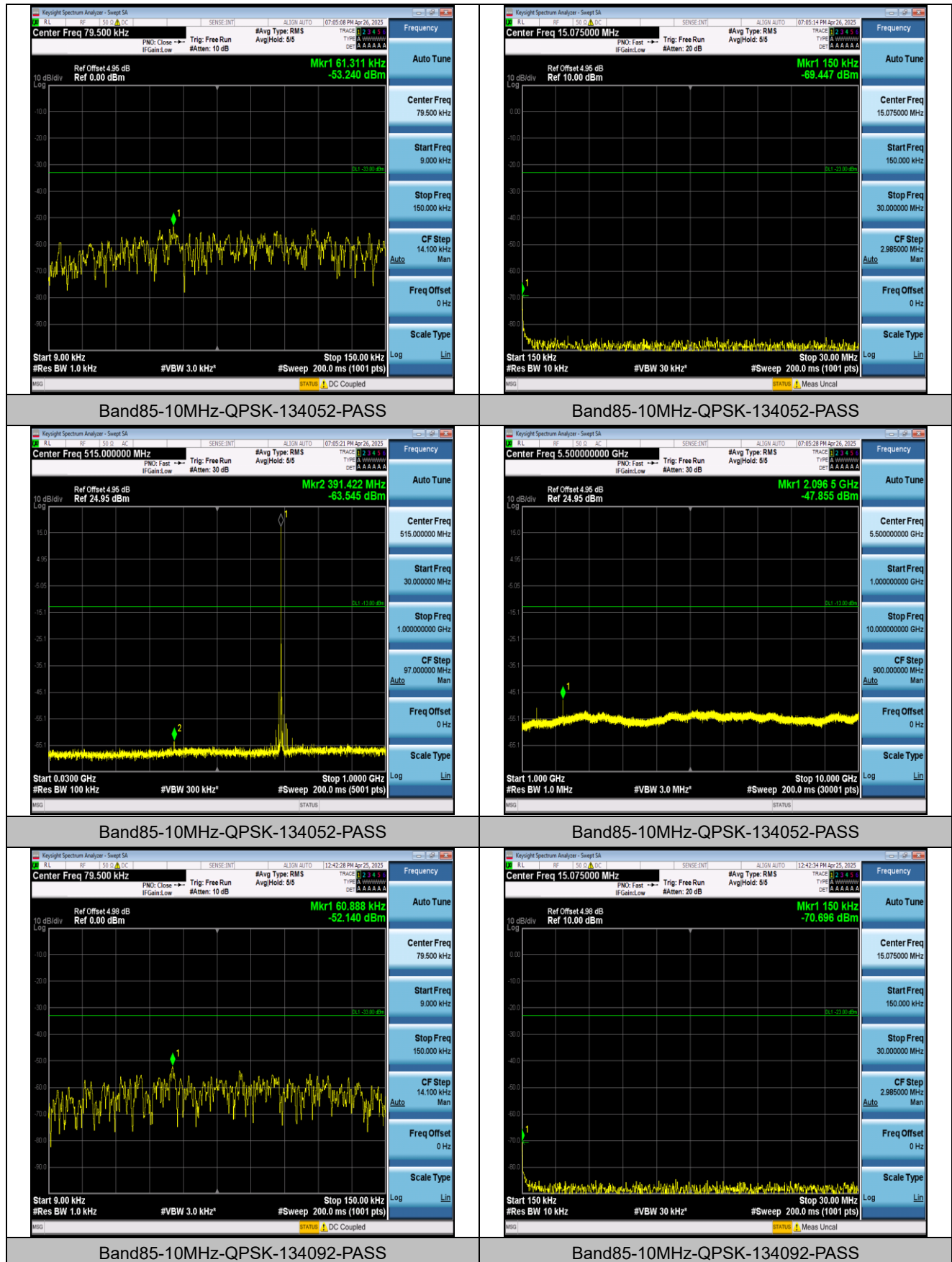
Test Graphs

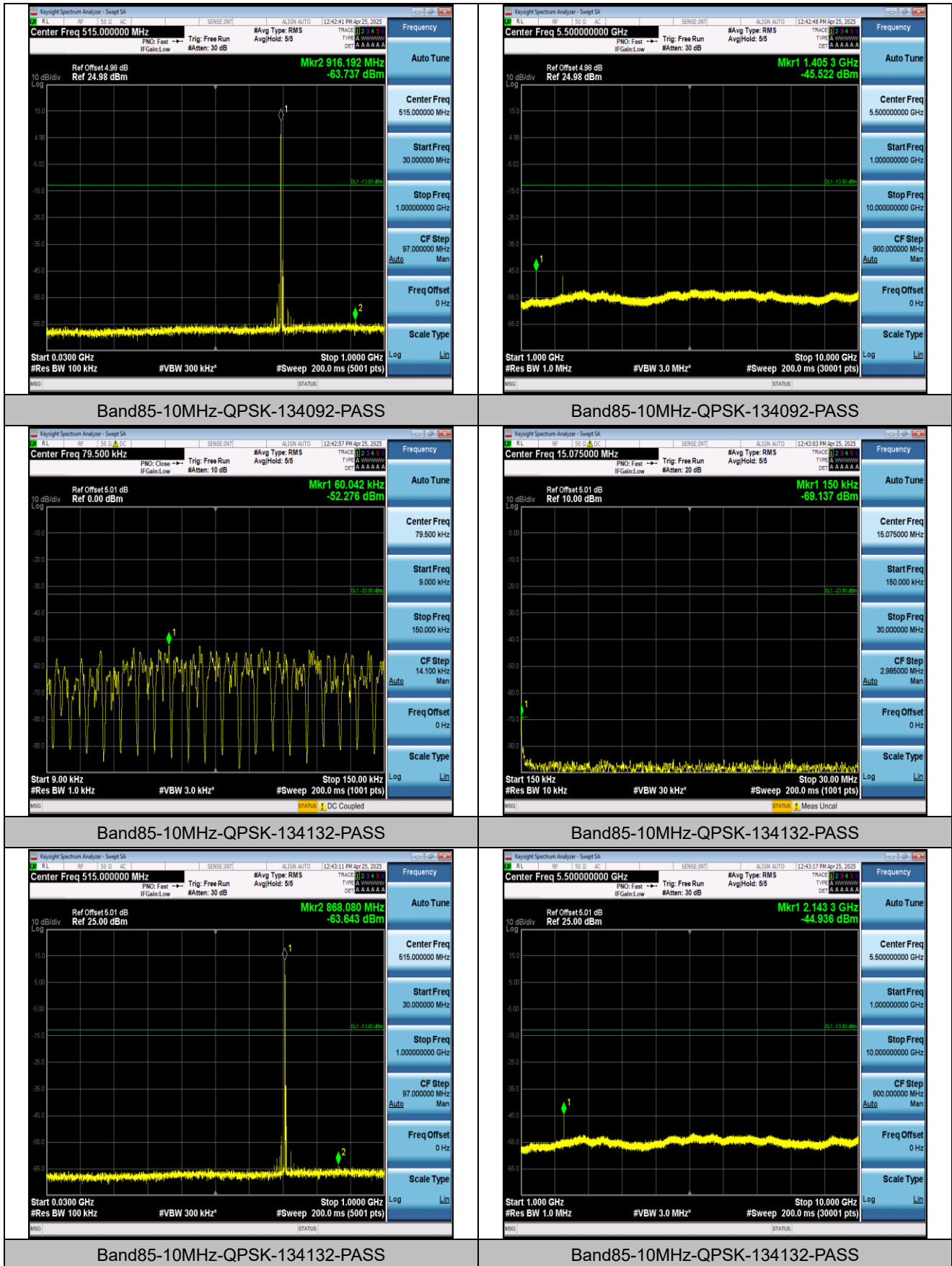




Conducted Spurious Emission for M1

Test Graphs





Frequency Stability for M1

Test Result

Voltage											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band85	10MHz	QPSK	134092	6	0	Low	VN	NT	1.50	0.002122	PASS
Band85	10MHz	QPSK	134092	6	0	Low	VL	NT	1.90	0.002687	PASS
Band85	10MHz	QPSK	134092	6	0	Low	VH	NT	4.10	0.005799	PASS

Temperature											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band85	10MHz	QPSK	134092	6	0	Low	NV	-30	1.70	0.002405	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	-20	0.70	0.000990	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	-10	1.60	0.002263	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	0	3.30	0.004668	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	10	1.90	0.002687	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	20	2.90	0.004102	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	30	2.20	0.003112	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	40	2.50	0.003536	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	50	2.50	0.003536	PASS

~The End~