

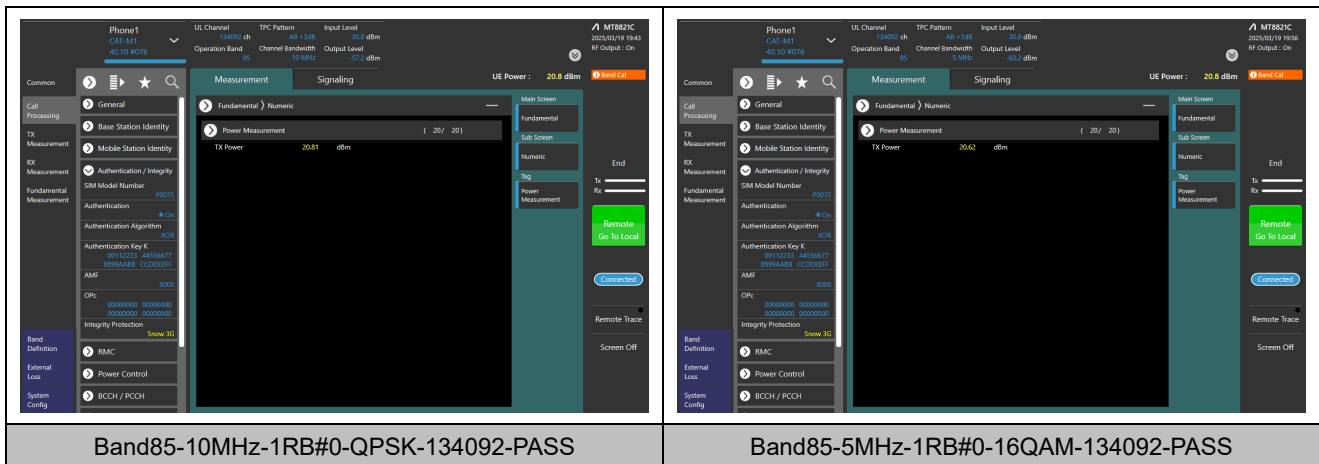
Appendix-B LTE Cat M1 Band 85

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	20.69	22.49	34.77	PASS
Band85	5MHz	QPSK	134027	1	5	Low	20.61	22.41	34.77	PASS
Band85	5MHz	QPSK	134027	6	0	Low	20.27	22.07	34.77	PASS
Band85	5MHz	QPSK	134092	1	0	Low	20.67	22.47	34.77	PASS
Band85	5MHz	QPSK	134092	1	5	Low	20.59	22.39	34.77	PASS
Band85	5MHz	QPSK	134092	6	0	Low	20.21	22.01	34.77	PASS
Band85	5MHz	QPSK	134157	1	0	High	20.64	22.44	34.77	PASS
Band85	5MHz	QPSK	134157	1	5	High	20.47	22.27	34.77	PASS
Band85	5MHz	QPSK	134157	6	0	High	20.23	22.03	34.77	PASS
Band85	10MHz	QPSK	134052	1	0	Low	20.73	22.53	34.77	PASS
Band85	10MHz	QPSK	134052	1	5	Low	20.54	22.34	34.77	PASS
Band85	10MHz	QPSK	134052	6	0	Low	20.24	22.04	34.77	PASS
Band85	10MHz	QPSK	134092	1	0	Low	20.81	22.61	34.77	PASS
Band85	10MHz	QPSK	134092	1	5	Low	20.58	22.38	34.77	PASS
Band85	10MHz	QPSK	134092	6	0	Low	20.23	22.03	34.77	PASS
Band85	10MHz	QPSK	134132	1	0	High	20.58	22.38	34.77	PASS
Band85	10MHz	QPSK	134132	1	5	High	20.57	22.37	34.77	PASS
Band85	10MHz	QPSK	134132	6	0	High	20.17	21.97	34.77	PASS
Band85	5MHz	16QAM	134027	1	0	Low	20.6	22.4	34.77	PASS
Band85	5MHz	16QAM	134027	1	5	Low	20.4	22.2	34.77	PASS
Band85	5MHz	16QAM	134027	5	0	Low	20.1	21.9	34.77	PASS
Band85	5MHz	16QAM	134092	1	0	Low	20.62	22.42	34.77	PASS
Band85	5MHz	16QAM	134092	1	5	Low	20.46	22.26	34.77	PASS
Band85	5MHz	16QAM	134092	5	0	Low	20.12	21.92	34.77	PASS
Band85	5MHz	16QAM	134157	1	0	High	20.6	22.4	34.77	PASS
Band85	5MHz	16QAM	134157	1	5	High	20.37	22.17	34.77	PASS
Band85	5MHz	16QAM	134157	5	0	High	20.18	21.98	34.77	PASS
Band85	10MHz	16QAM	134052	1	0	Low	20.49	22.29	34.77	PASS
Band85	10MHz	16QAM	134052	1	5	Low	20.31	22.11	34.77	PASS
Band85	10MHz	16QAM	134052	5	0	Low	20.46	22.26	34.77	PASS
Band85	10MHz	16QAM	134092	1	0	Low	20.56	22.36	34.77	PASS
Band85	10MHz	16QAM	134092	1	5	Low	20.38	22.18	34.77	PASS
Band85	10MHz	16QAM	134092	5	0	Low	20.55	22.35	34.77	PASS
Band85	10MHz	16QAM	134132	1	0	High	20.58	22.38	34.77	PASS
Band85	10MHz	16QAM	134132	1	5	High	20.44	22.24	34.77	PASS
Band85	10MHz	16QAM	134132	5	0	High	20.52	22.32	34.77	PASS

Test Graphs

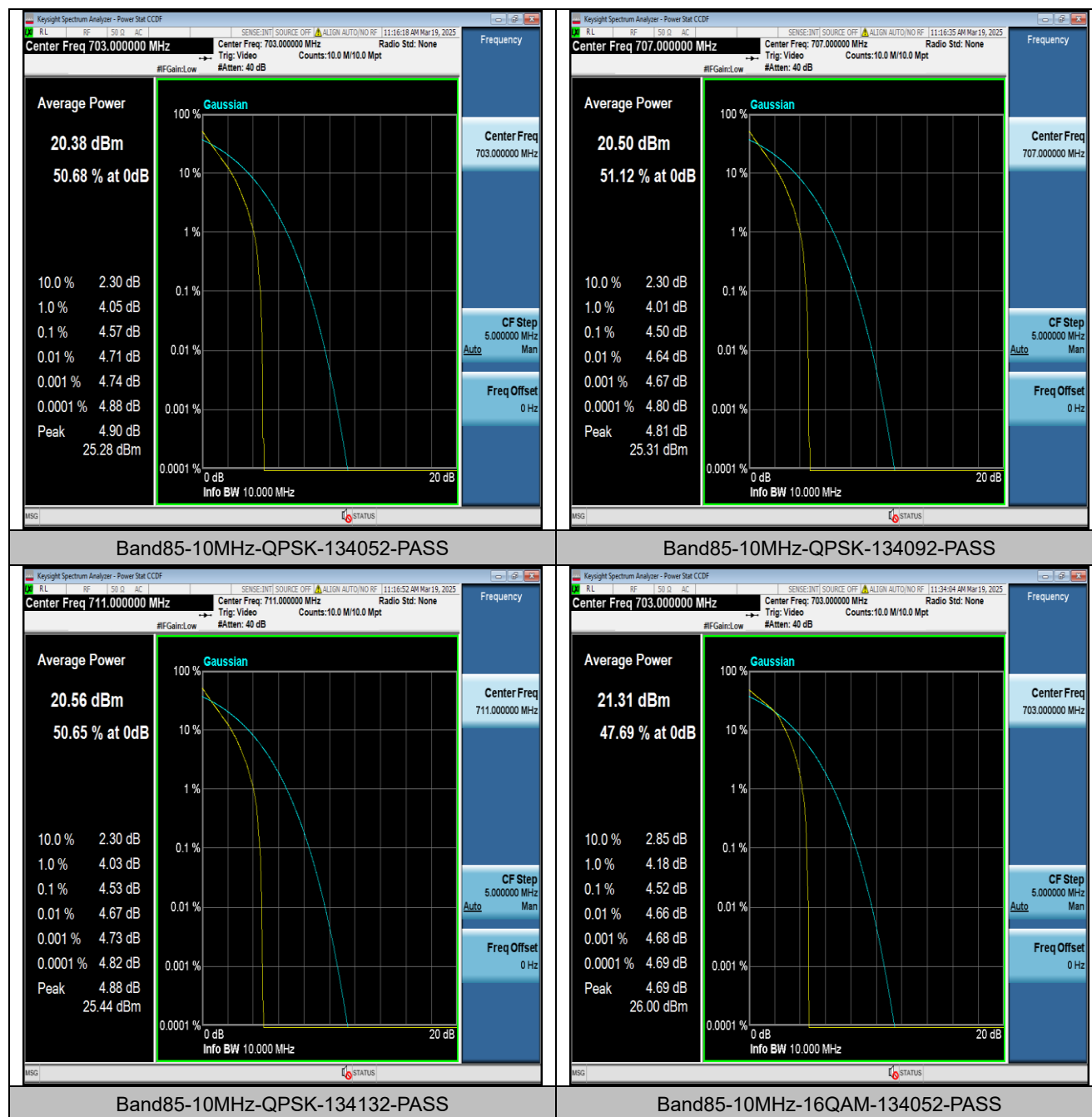


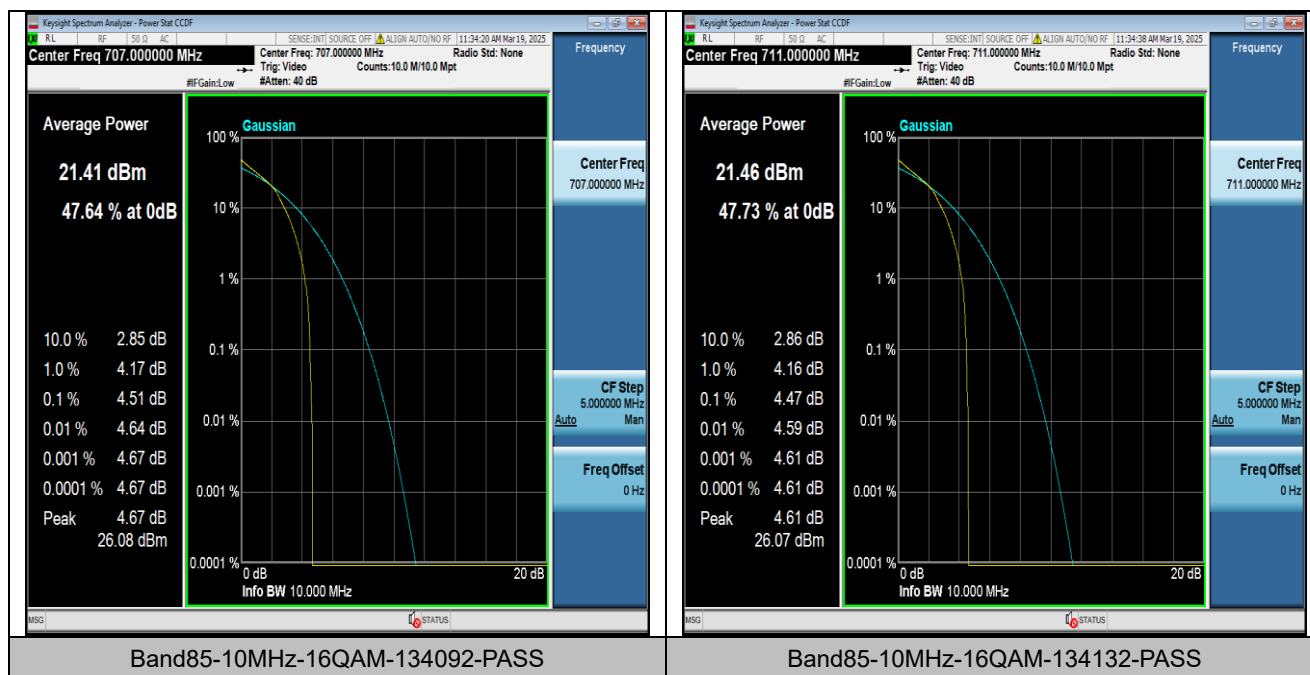
Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band85	10MHz	QPSK	134052	6	0	Low	4.57	<=13	PASS
Band85	10MHz	QPSK	134092	6	0	Low	4.50	<=13	PASS
Band85	10MHz	QPSK	134132	6	0	High	4.53	<=13	PASS
Band85	10MHz	16QAM	134052	5	0	Low	4.52	<=13	PASS
Band85	10MHz	16QAM	134092	5	0	Low	4.51	<=13	PASS
Band85	10MHz	16QAM	134132	5	0	High	4.47	<=13	PASS

Test Graphs



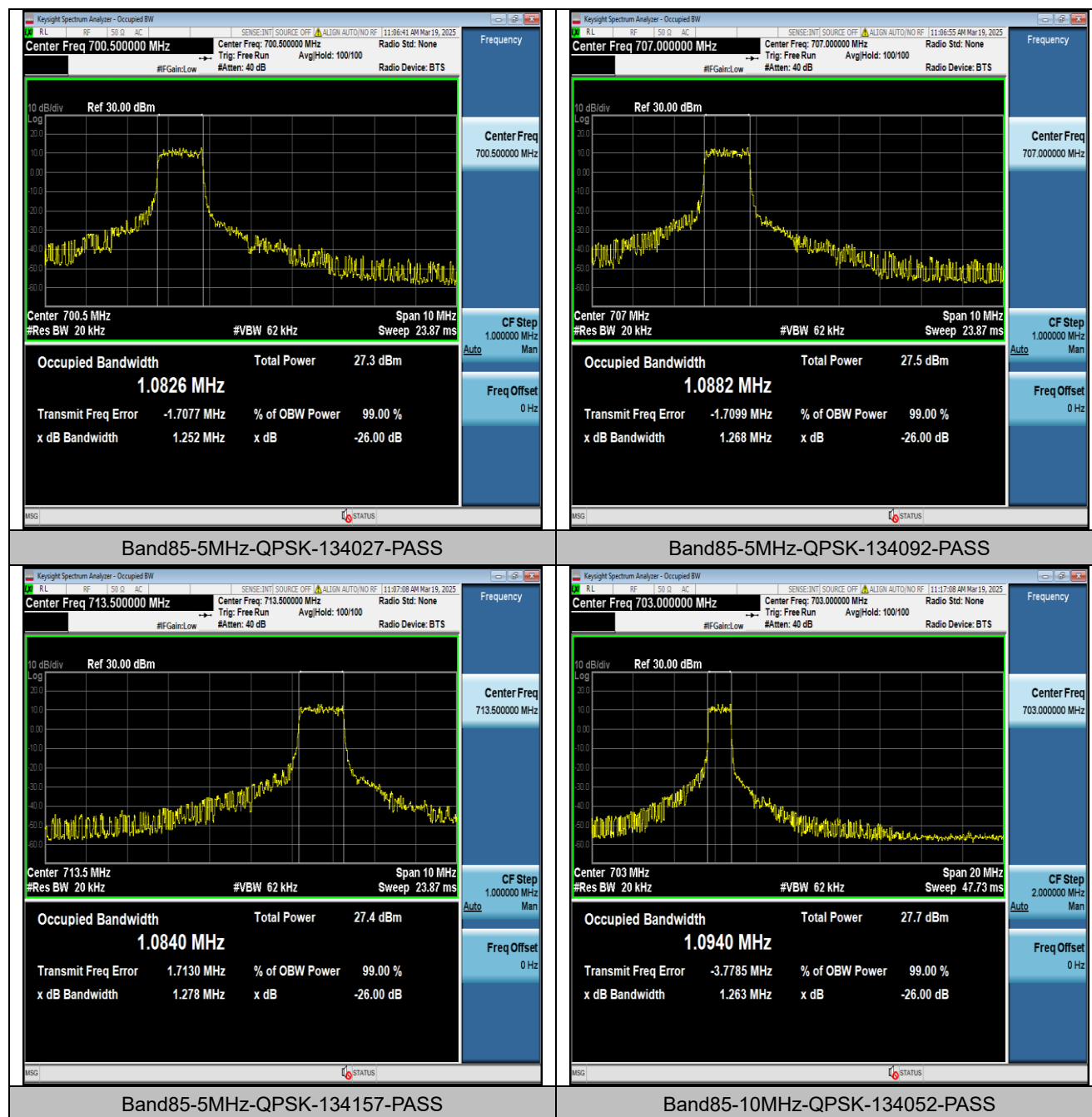


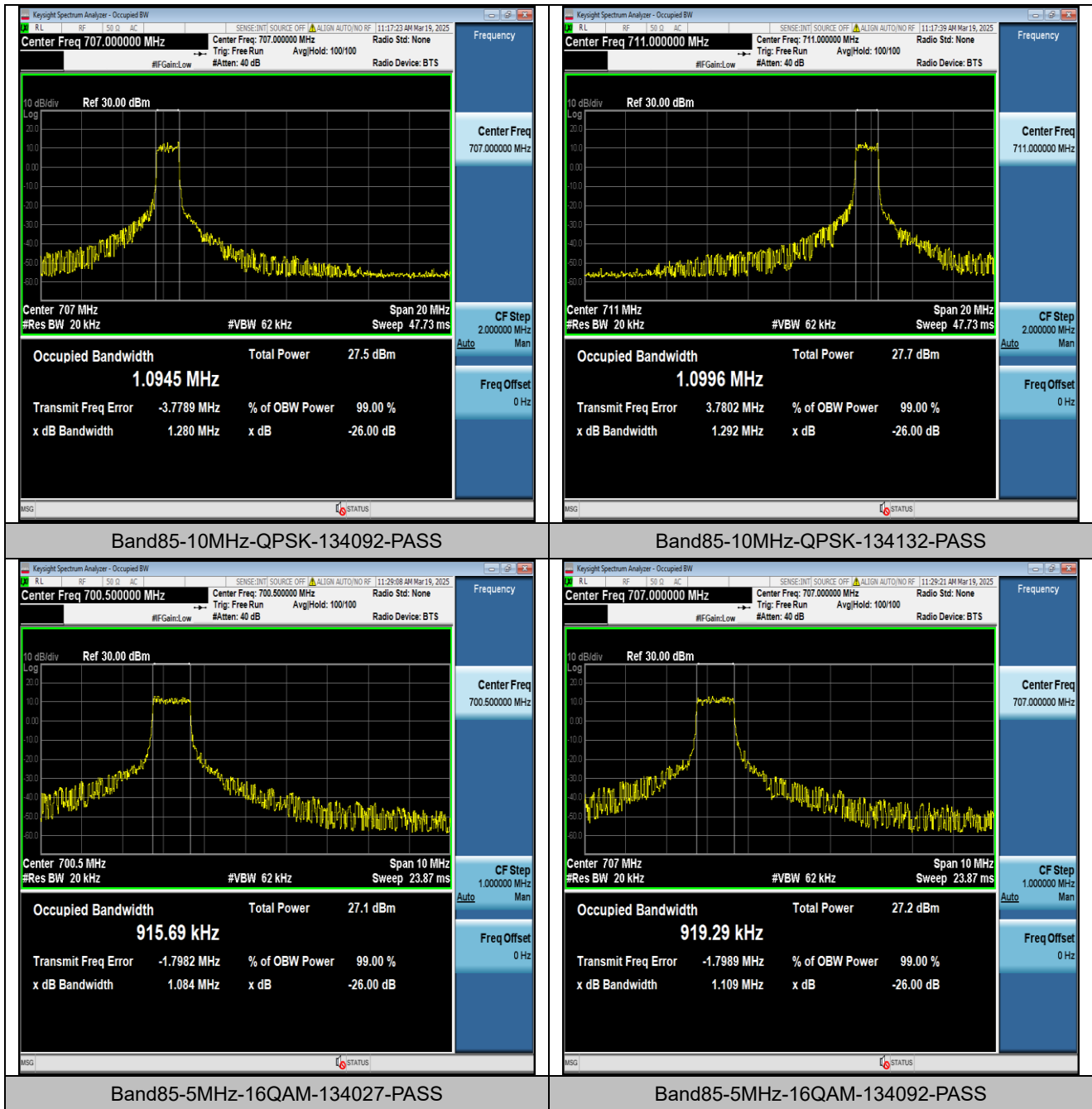
26dB Bandwidth and Occupied Bandwidth for M1

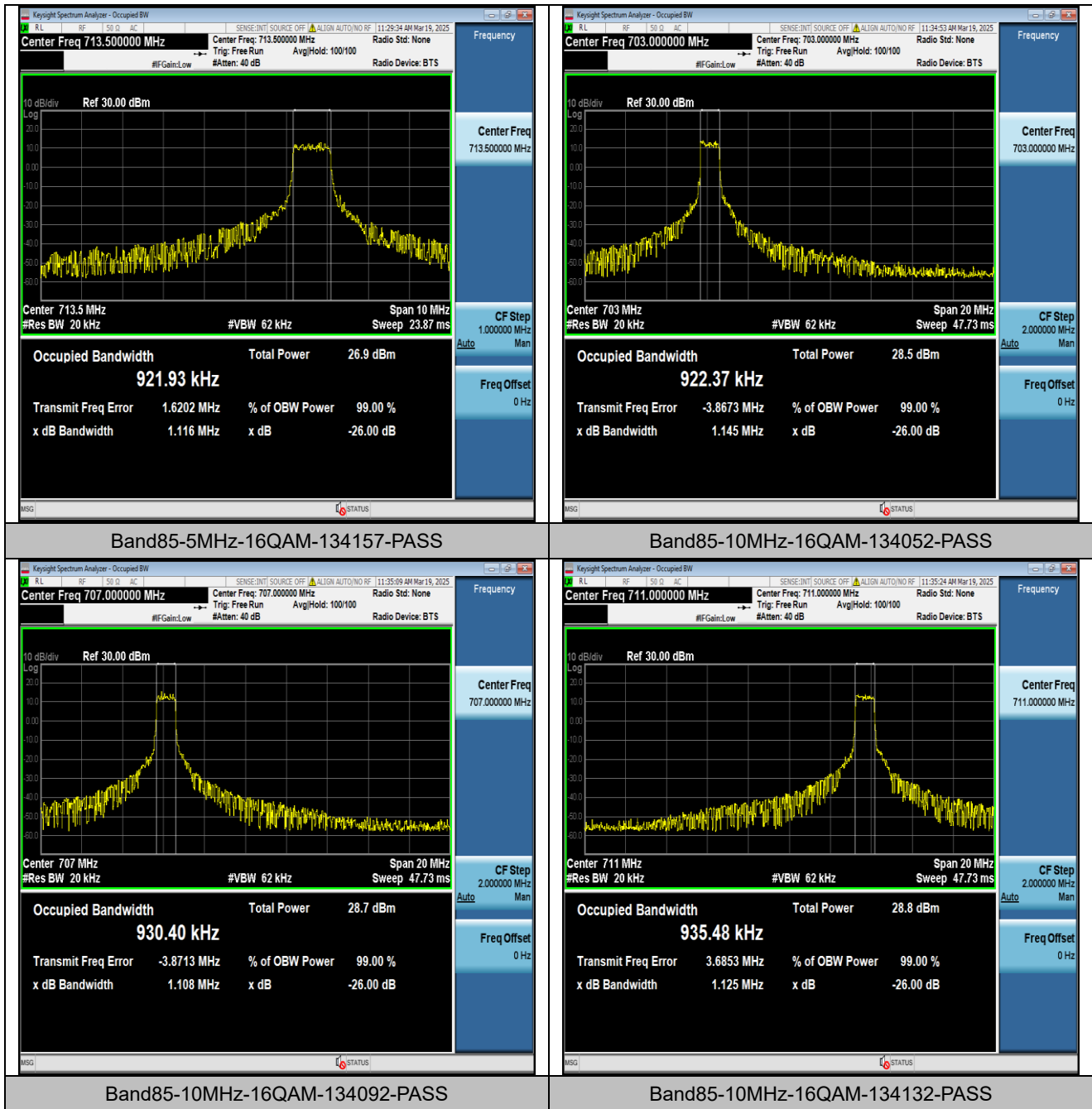
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band85	5MHz	QPSK	134027	6	0	Low	1.0826	1.252	PASS
Band85	5MHz	QPSK	134092	6	0	Low	1.0882	1.268	PASS
Band85	5MHz	QPSK	134157	6	0	High	1.0840	1.278	PASS
Band85	10MHz	QPSK	134052	6	0	Low	1.0940	1.263	PASS
Band85	10MHz	QPSK	134092	6	0	Low	1.0945	1.280	PASS
Band85	10MHz	QPSK	134132	6	0	High	1.0996	1.292	PASS
Band85	5MHz	16QAM	134027	5	0	Low	0.91569	1.084	PASS
Band85	5MHz	16QAM	134092	5	0	Low	0.91929	1.109	PASS
Band85	5MHz	16QAM	134157	5	0	High	0.92193	1.116	PASS
Band85	10MHz	16QAM	134052	5	0	Low	0.92237	1.145	PASS
Band85	10MHz	16QAM	134092	5	0	Low	0.93040	1.108	PASS
Band85	10MHz	16QAM	134132	5	0	High	0.93548	1.125	PASS

Test Graphs

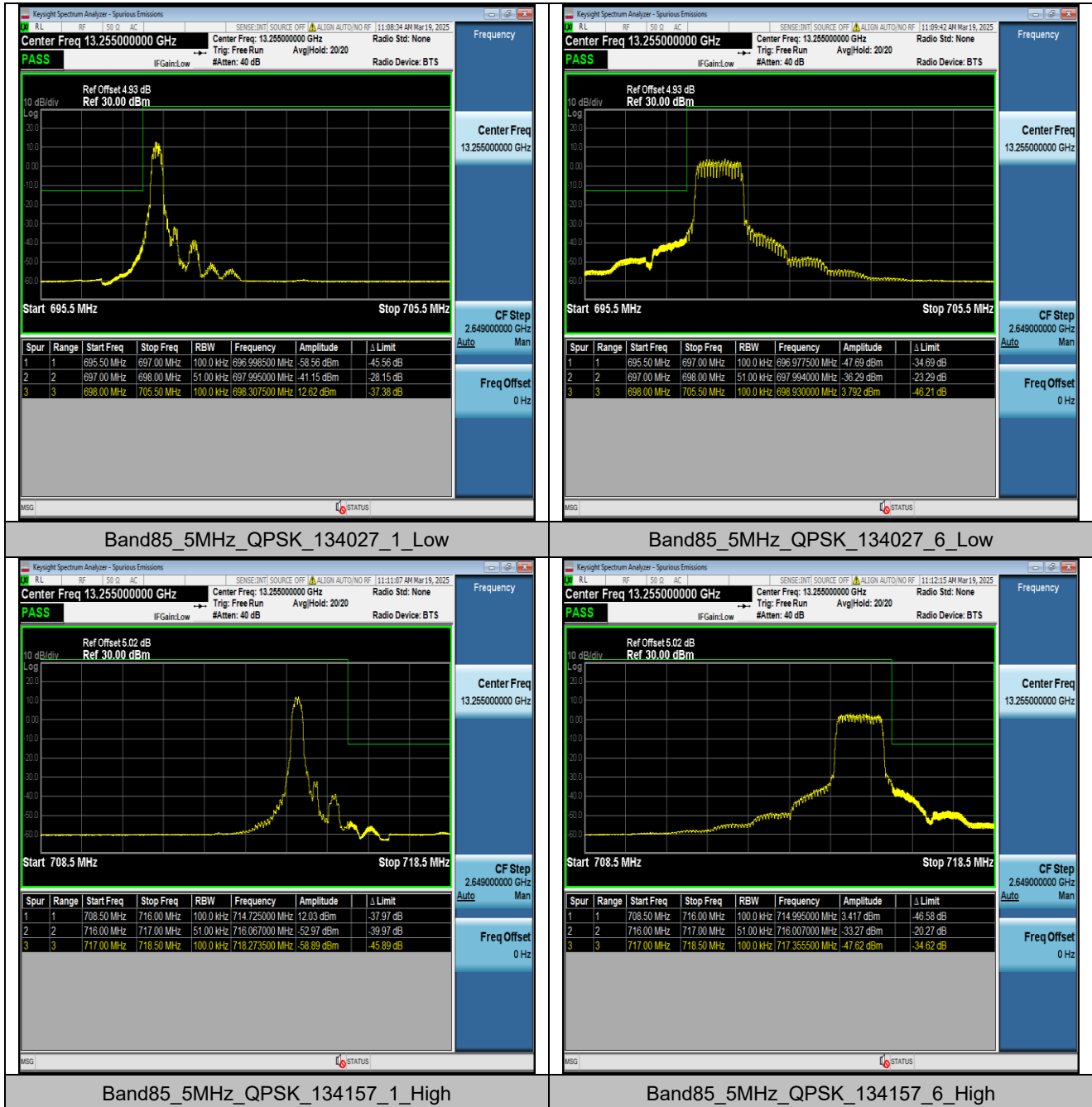


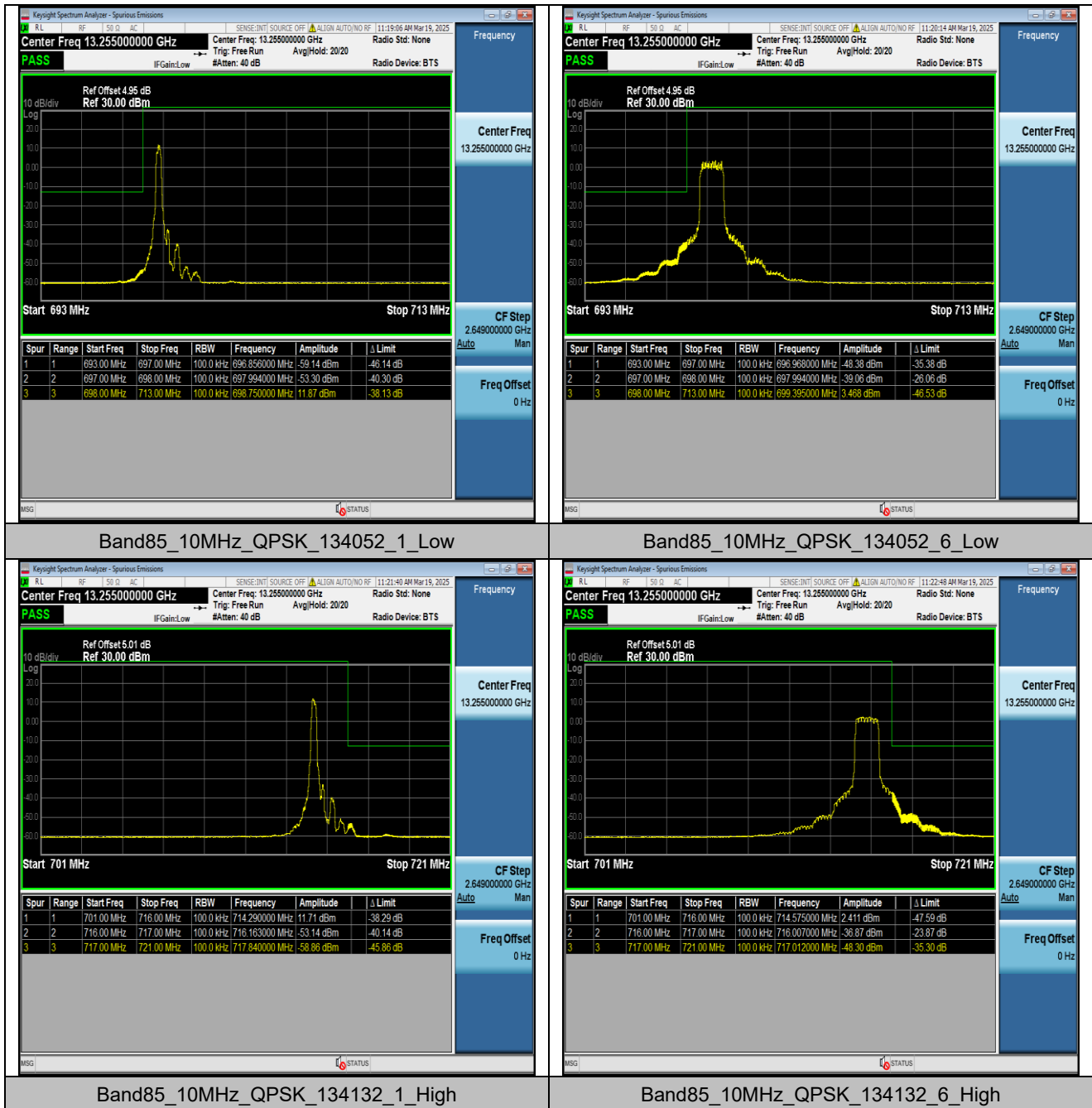




Band Edge for M1

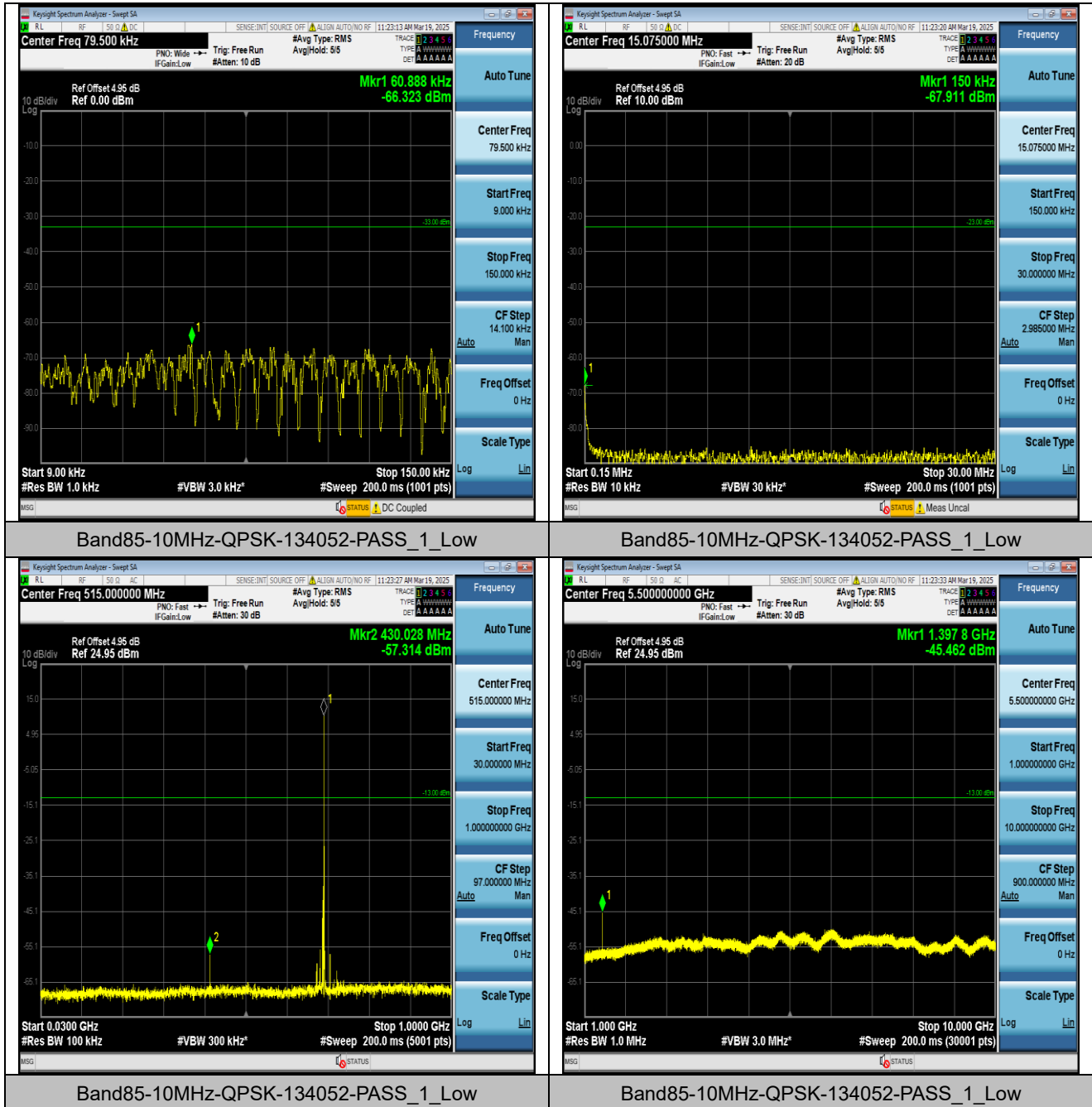
Test Graphs

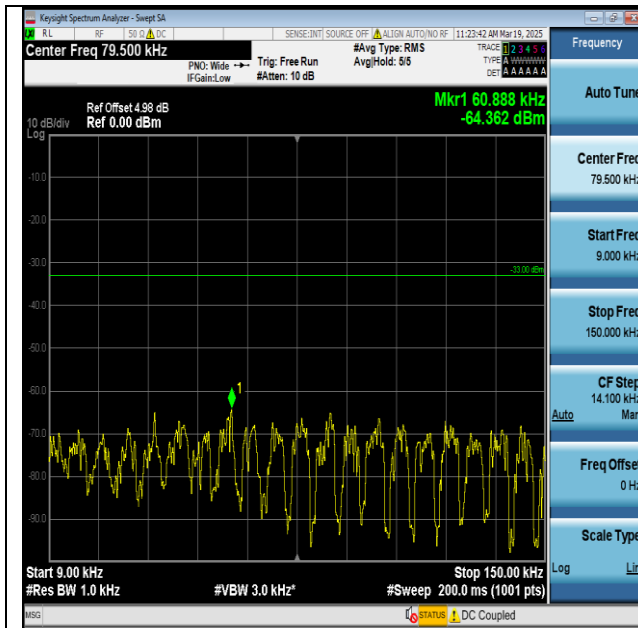




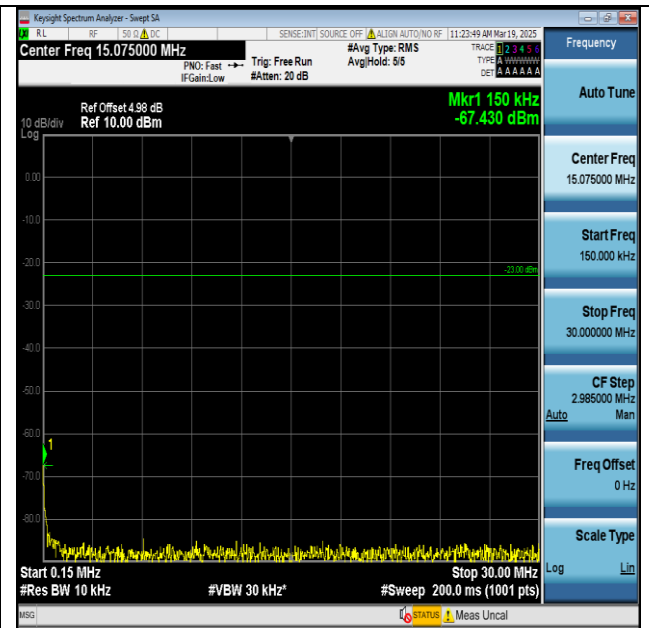
Conducted Spurious Emission for M1

Test Graphs

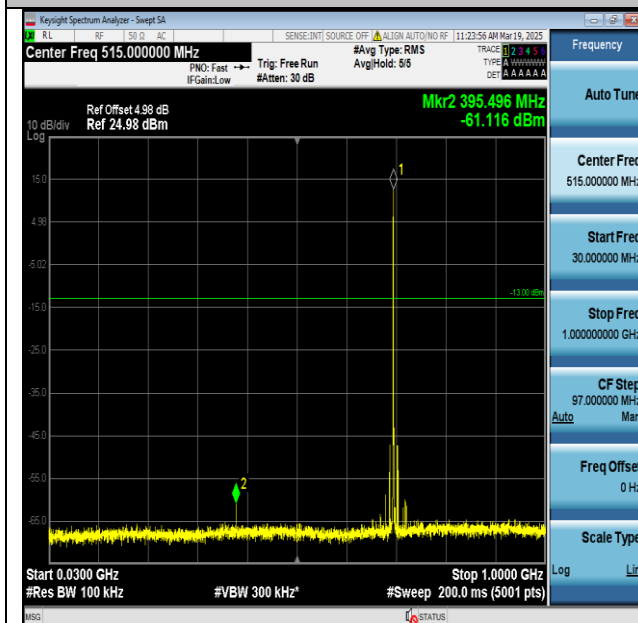




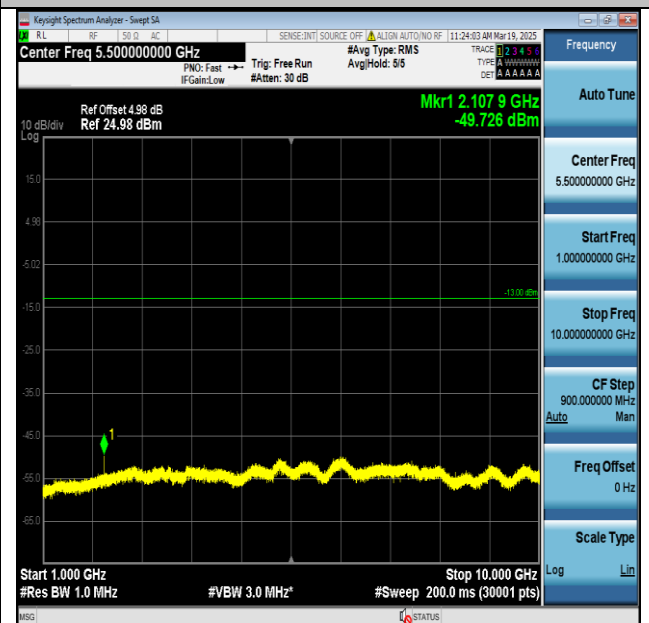
Band85-10MHz-QPSK-134092-PASS_1_Low



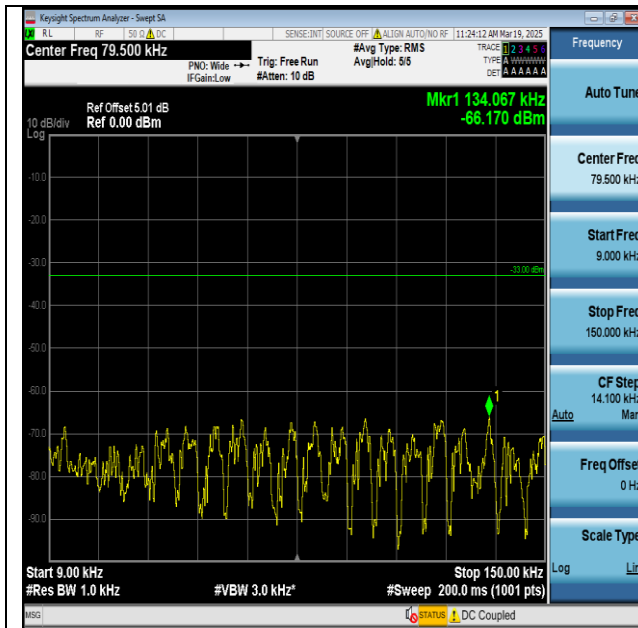
Band85-10MHz-QPSK-134092-PASS_1_Low



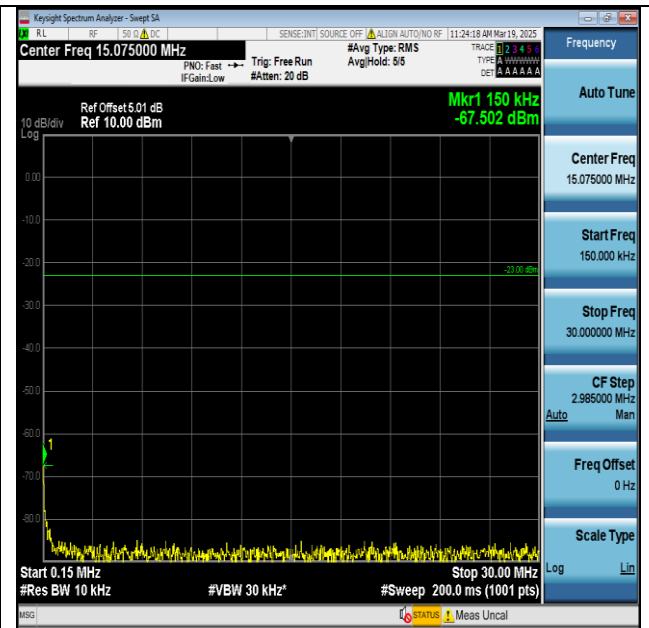
Band85-10MHz-QPSK-134092-PASS_1_Low



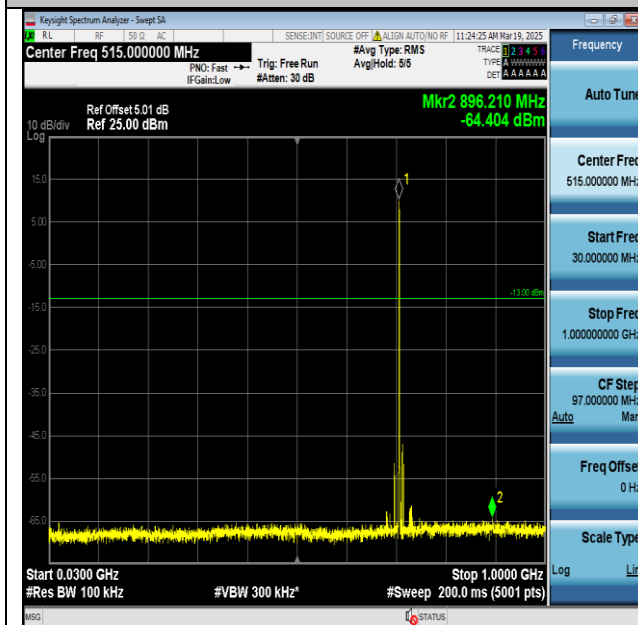
Band85-10MHz-QPSK-134092-PASS_1_Low



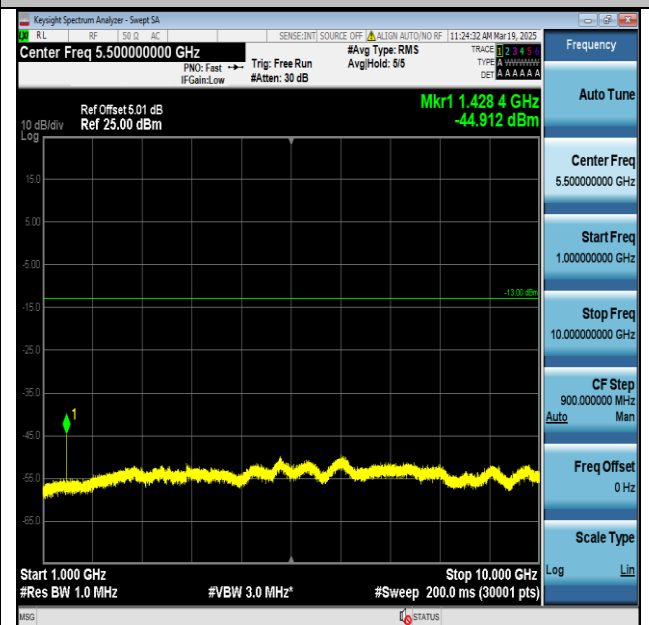
Band85-10MHz-QPSK-134132-PASS_1_Low



Band85-10MHz-QPSK-134132-PASS_1_Low



Band85-10MHz-QPSK-134132-PASS_1_Low



Band85-10MHz-QPSK-134132-PASS_1_Low

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	-0.70	-0.000990	PASS
Band85	10MHz	QPSK	134092	6	0	Low	VL	NT	1.90	0.002687	PASS
Band85	10MHz	QPSK	134092	6	0	Low	VH	NT	0.40	0.000566	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	0.40	0.000566	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	-20	2.90	0.004102	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	-10	0.90	0.001273	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	0	0.70	0.000990	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	10	0.90	0.001273	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	20	0.00	0.000000	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	30	0.50	0.000707	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	40	2.70	0.003819	PASS
Band85	10MHz	QPSK	134092	6	0	Low	NV	50	1.50	0.002122	PASS

~The End~