

Appendix-A LTE Cat M1 Band 14

Effective (Isotropic) Radiated Power Output Data for M1

Test Result

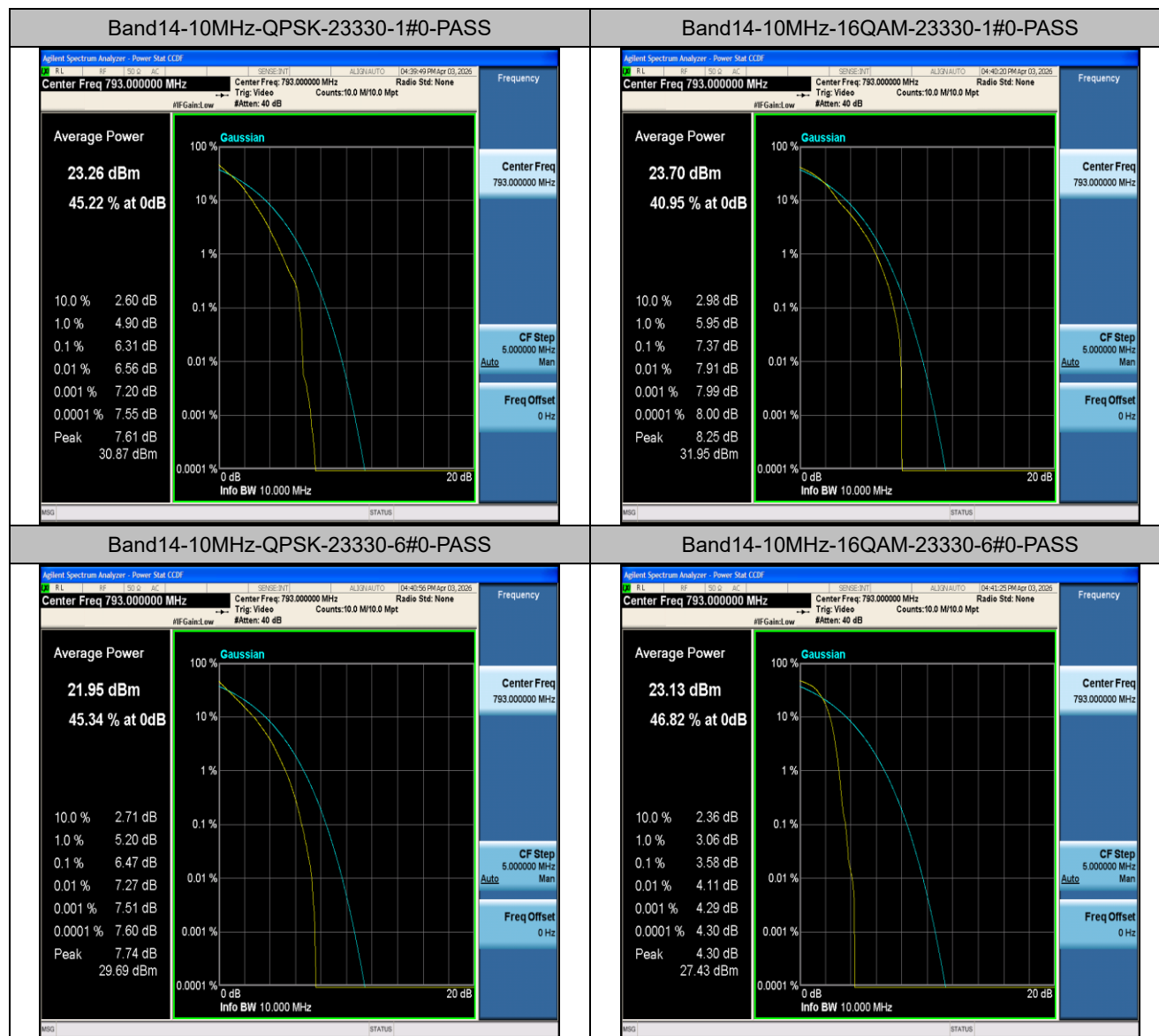
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1	0	Low	23	27.57	34.77	PASS
Band14	5MHz	16QAM	23305	1	0	Low	23.4	27.97	34.77	PASS
Band14	5MHz	QPSK	23305	1	5	Low	22.98	27.55	34.77	PASS
Band14	5MHz	16QAM	23305	1	5	Low	23.39	27.96	34.77	PASS
Band14	5MHz	QPSK	23305	6	0	Low	21.81	26.38	34.77	PASS
Band14	5MHz	16QAM	23305	6	0	Low	22.79	27.36	34.77	PASS
Band14	5MHz	QPSK	23330	1	0	Low	22.82	27.39	34.77	PASS
Band14	5MHz	16QAM	23330	1	0	Low	23.18	27.75	34.77	PASS
Band14	5MHz	QPSK	23330	1	5	Low	22.84	27.41	34.77	PASS
Band14	5MHz	16QAM	23330	1	5	Low	23.12	27.69	34.77	PASS
Band14	5MHz	QPSK	23330	6	0	Low	21.59	26.16	34.77	PASS
Band14	5MHz	16QAM	23330	6	0	Low	22.67	27.24	34.77	PASS
Band14	5MHz	QPSK	23355	1	0	High	22.66	27.23	34.77	PASS
Band14	5MHz	16QAM	23355	1	0	High	23	27.57	34.77	PASS
Band14	5MHz	QPSK	23355	1	5	High	22.68	27.25	34.77	PASS
Band14	5MHz	16QAM	23355	1	5	High	23.03	27.6	34.77	PASS
Band14	5MHz	QPSK	23355	6	0	High	21.43	26	34.77	PASS
Band14	5MHz	16QAM	23355	6	0	High	22.56	27.13	34.77	PASS
Band14	10MHz	QPSK	23330	1	0	Low	22.89	27.46	34.77	PASS
Band14	10MHz	16QAM	23330	1	0	Low	23.25	27.82	34.77	PASS
Band14	10MHz	QPSK	23330	1	5	Low	22.89	27.46	34.77	PASS
Band14	10MHz	16QAM	23330	1	5	Low	23.25	27.82	34.77	PASS
Band14	10MHz	QPSK	23330	6	0	Low	21.7	26.27	34.77	PASS
Band14	10MHz	16QAM	23330	6	0	Low	22.72	27.29	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
Band14	10MHz	QPSK	23330	1	0	Low	6.31	<=13	PASS
Band14	10MHz	16QAM	23330	1	0	Low	7.37	<=13	PASS
Band14	10MHz	QPSK	23330	6	0	Low	6.47	<=13	PASS
Band14	10MHz	16QAM	23330	6	0	Low	3.58	<=13	PASS

Test Graphs

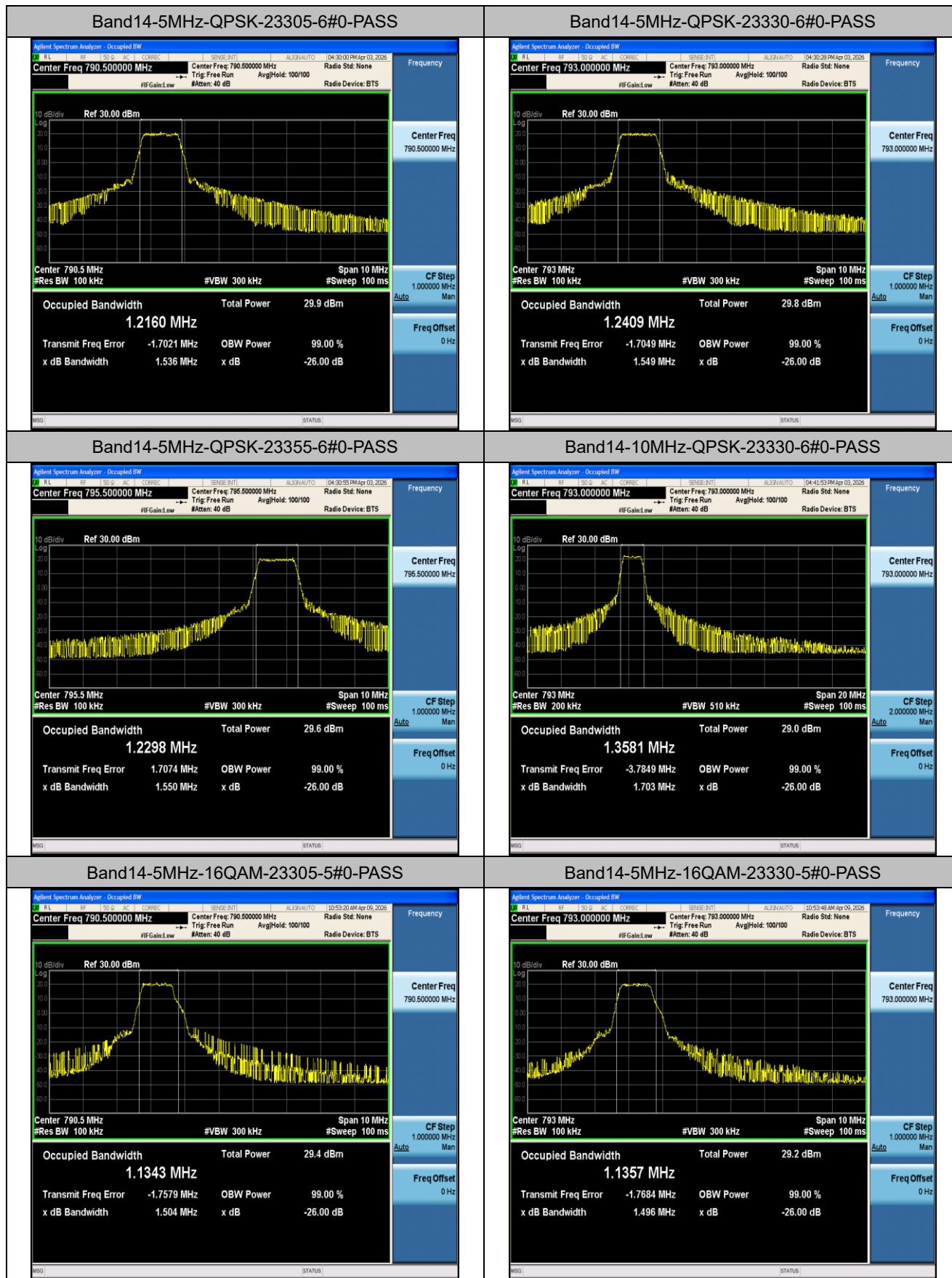


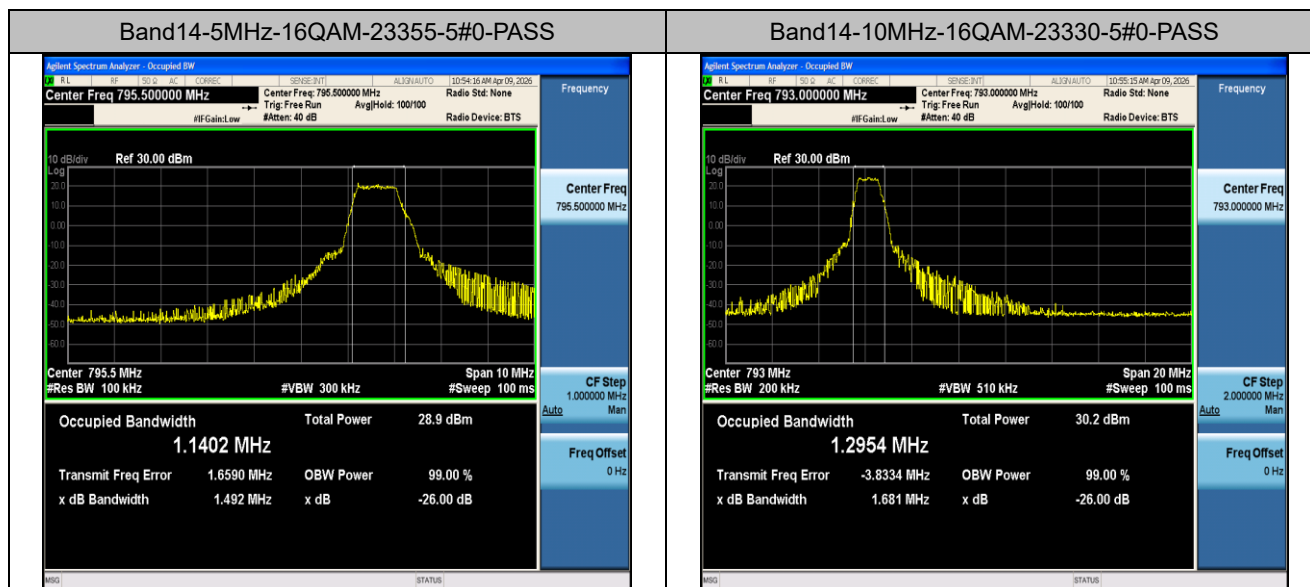
26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	6	0	Low	1.2160	1.536	PASS
Band14	5MHz	QPSK	23330	6	0	Low	1.2409	1.549	PASS
Band14	5MHz	QPSK	23355	6	0	High	1.2298	1.550	PASS
Band14	10MHz	QPSK	23330	6	0	Low	1.3581	1.703	PASS
Band14	5MHz	16QAM	23305	5	0	Low	1.1343	1.504	PASS
Band14	5MHz	16QAM	23330	5	0	Low	1.1357	1.496	PASS
Band14	5MHz	16QAM	23355	5	0	High	1.1402	1.492	PASS
Band14	10MHz	16QAM	23330	5	0	Low	1.2954	1.681	PASS

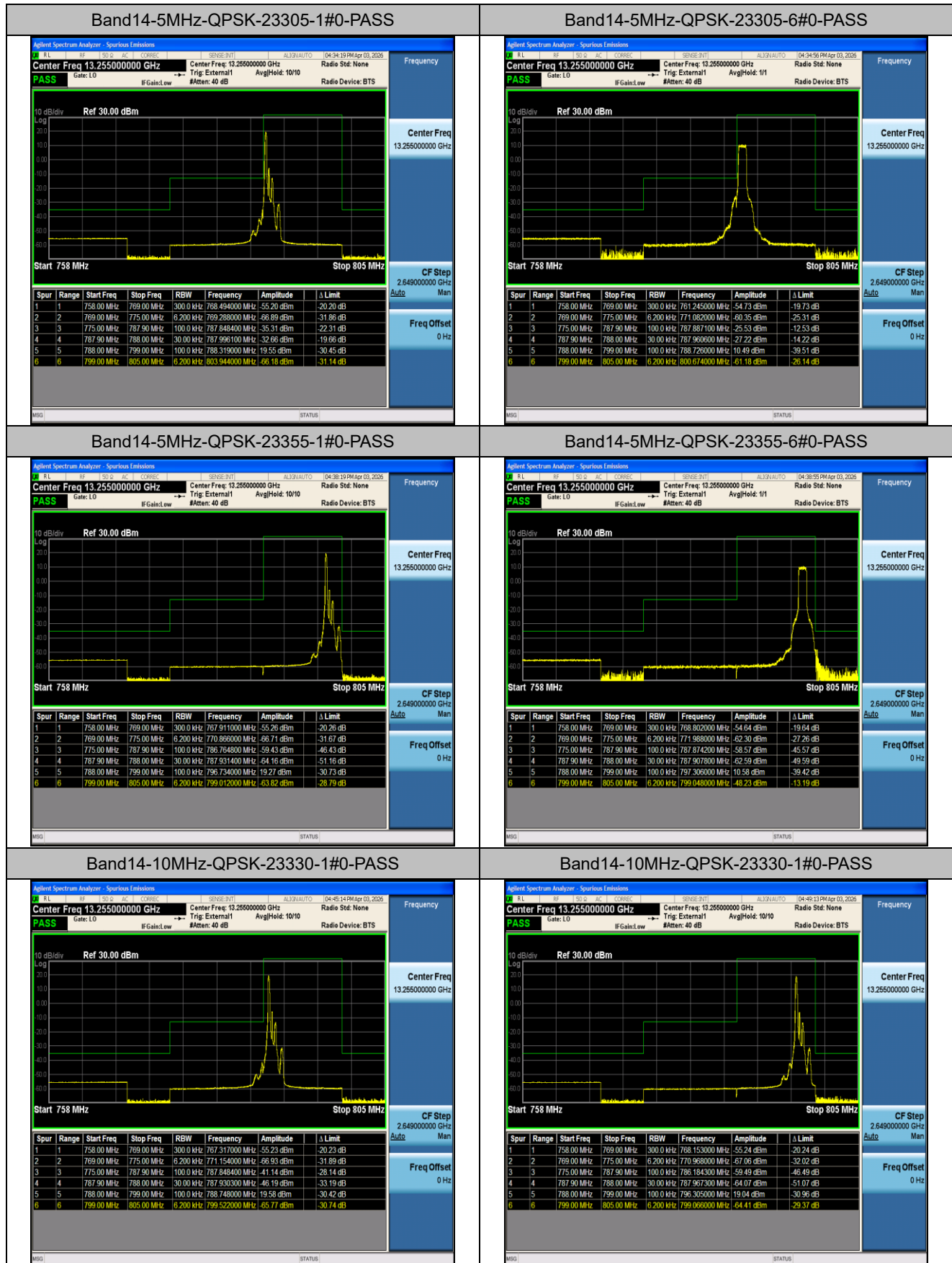
Test Graphs

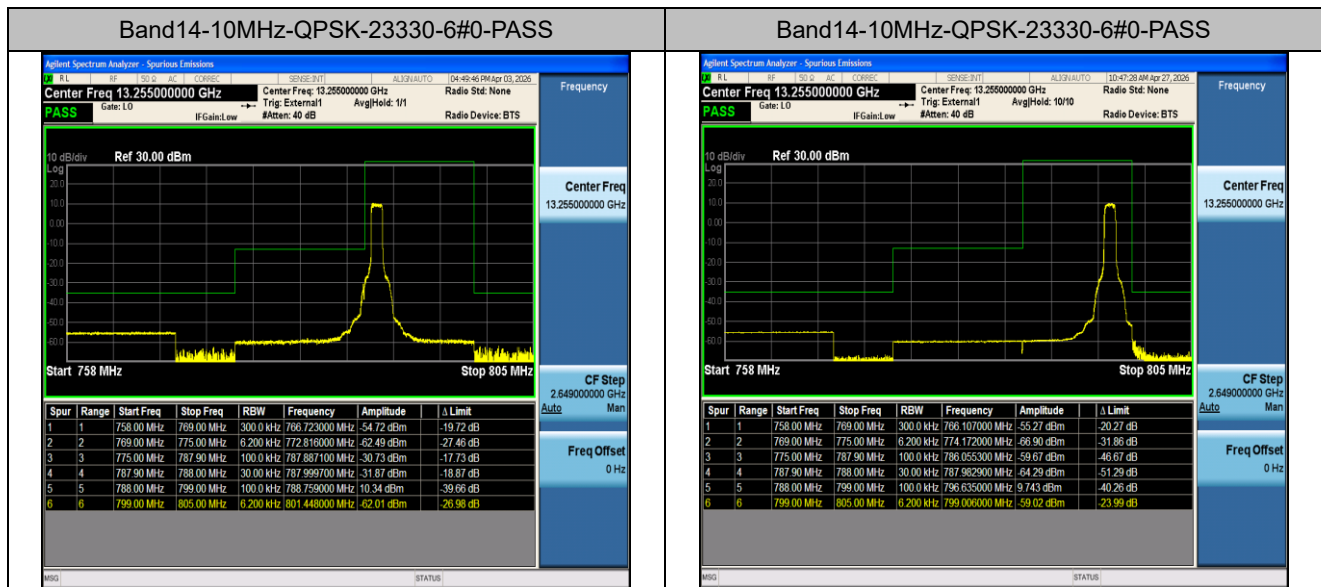




Band Edge for M1

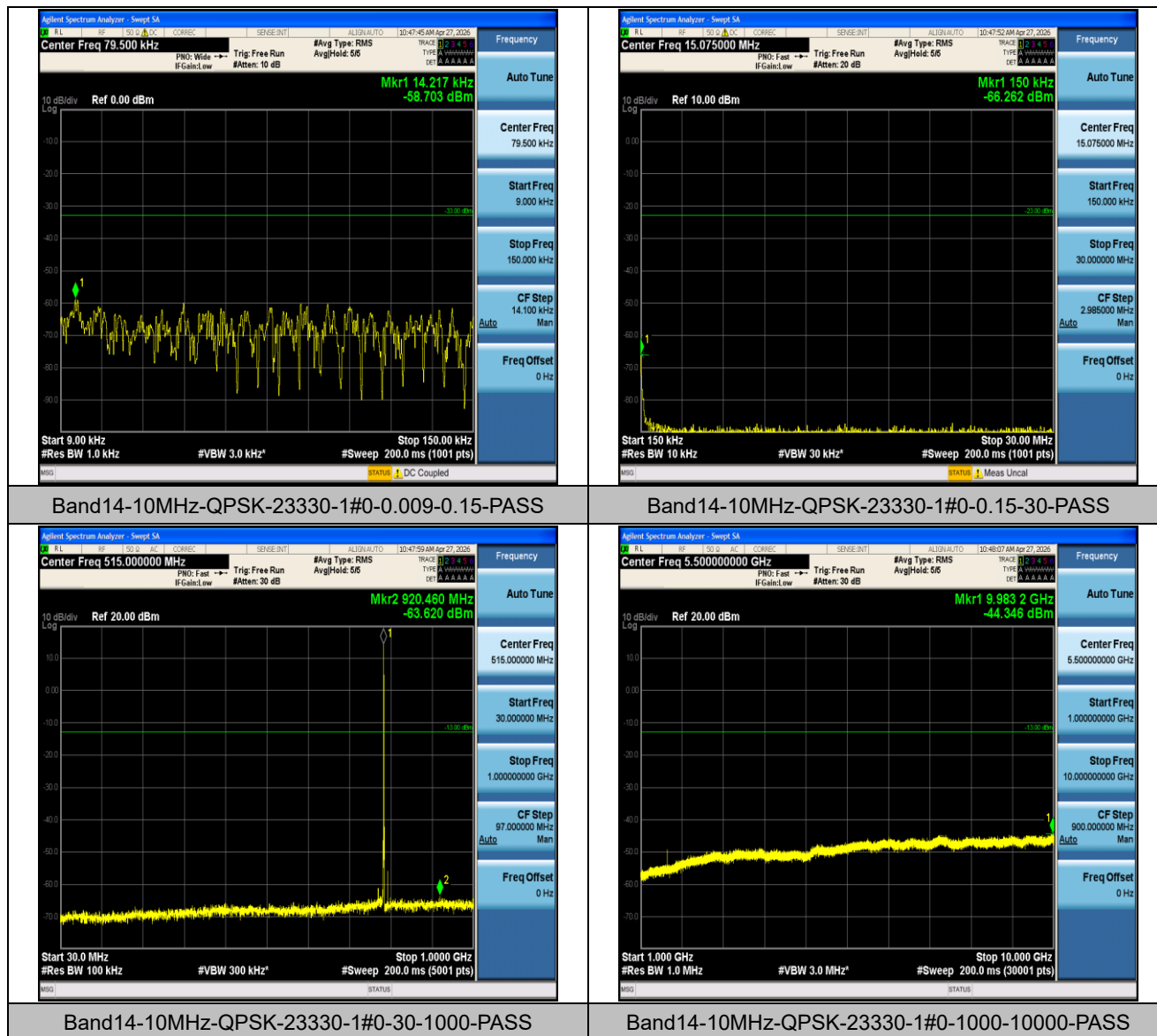
Test Graphs





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
Band14	10MHz	QPSK	23330	6	0	Low	VN	NT	-4.40	-0.005549	PASS
Band14	10MHz	QPSK	23330	6	0	Low	VL	NT	-4.00	-0.005044	PASS
Band14	10MHz	QPSK	23330	6	0	Low	VH	NT	-3.50	-0.004414	PASS

Temperature											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	6	0	Low	NV	-30	-3.40	-0.004288	PASS
Band14	10MHz	QPSK	23330	6	0	Low	NV	-20	-3.70	-0.004666	PASS
Band14	10MHz	QPSK	23330	6	0	Low	NV	-10	-2.90	-0.003657	PASS
Band14	10MHz	QPSK	23330	6	0	Low	NV	0	-2.30	-0.002900	PASS
Band14	10MHz	QPSK	23330	6	0	Low	NV	10	-1.60	-0.002018	PASS
Band14	10MHz	QPSK	23330	6	0	Low	NV	20	-2.10	-0.002648	PASS
Band14	10MHz	QPSK	23330	6	0	Low	NV	30	-1.40	-0.001765	PASS
Band14	10MHz	QPSK	23330	6	0	Low	NV	40	-2.40	-0.003026	PASS
Band14	10MHz	QPSK	23330	6	0	Low	NV	50	-2.50	-0.003153	PASS

~The End~