

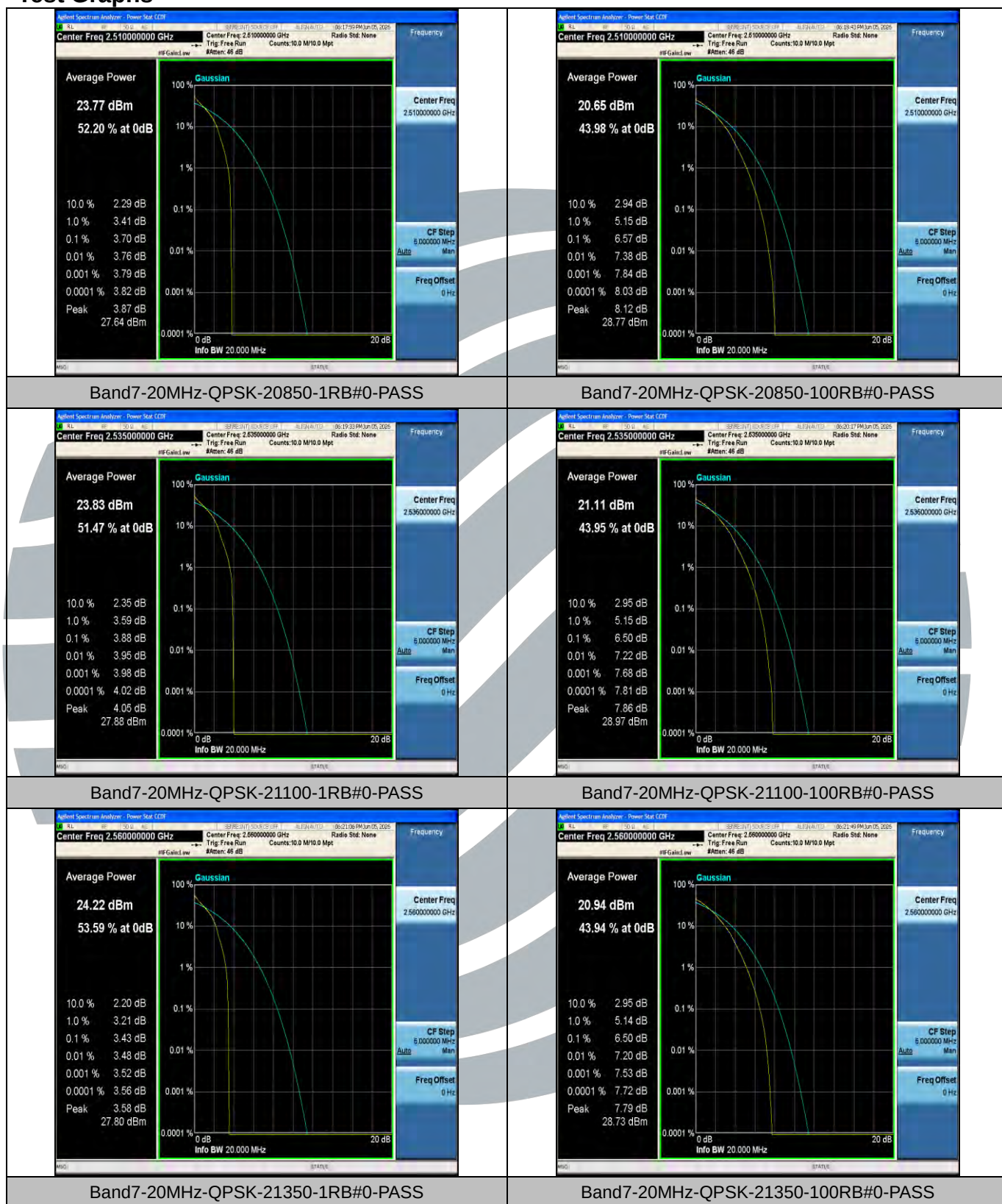
APPENDIX A LTE RF TEST DATA

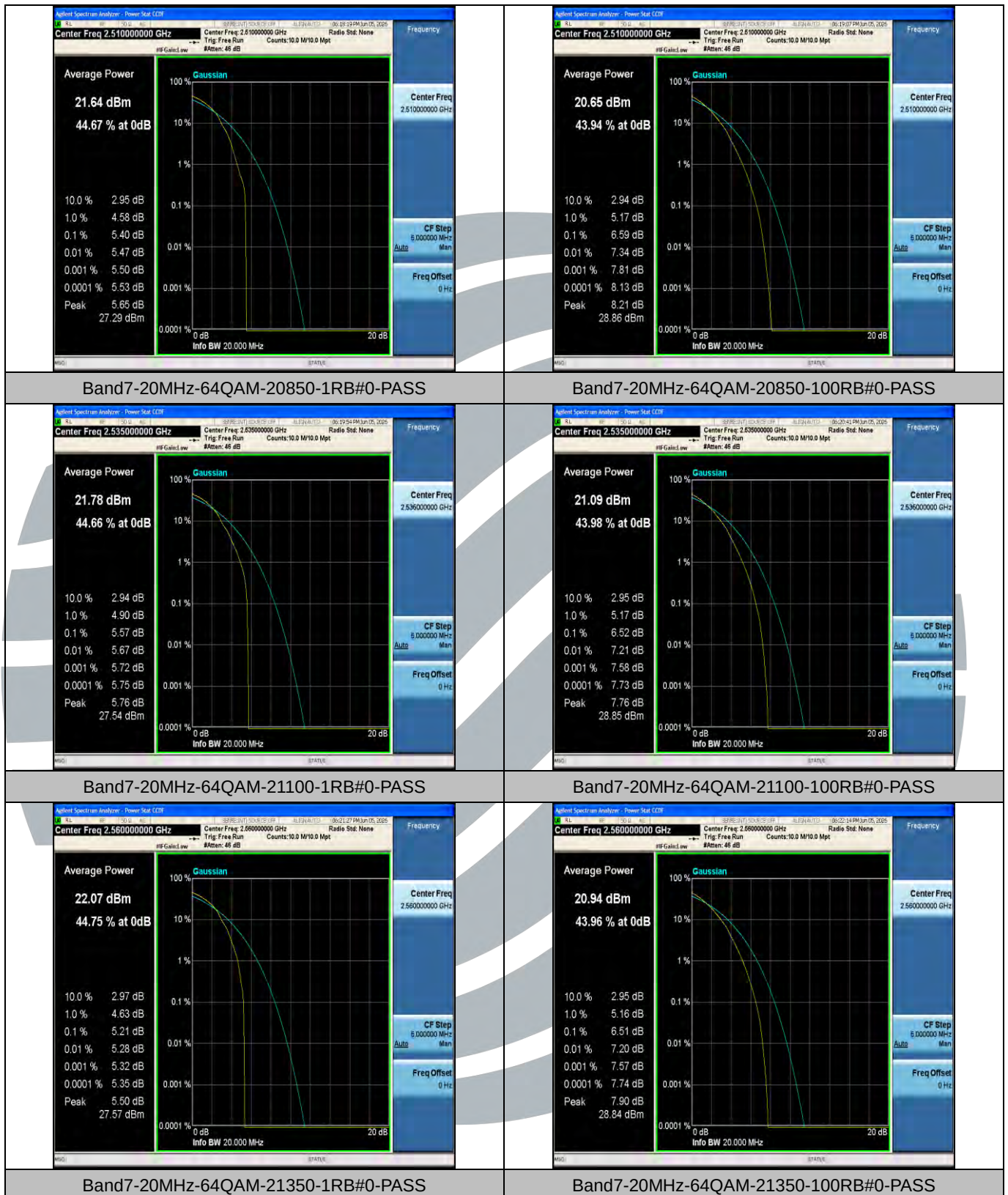
A.1 PEAK-TO-AVERAGE RATIO(CCDF)

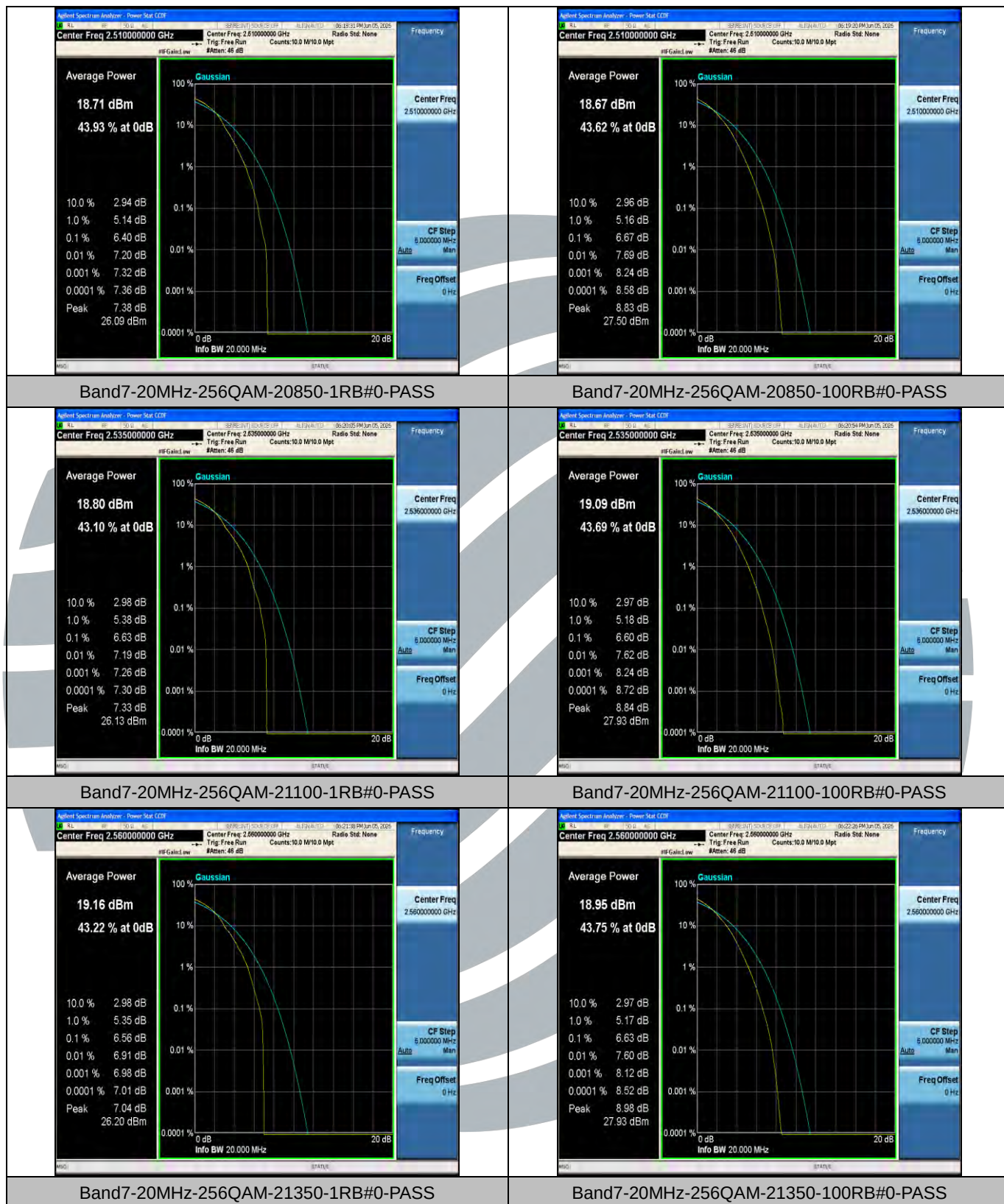
Test Result

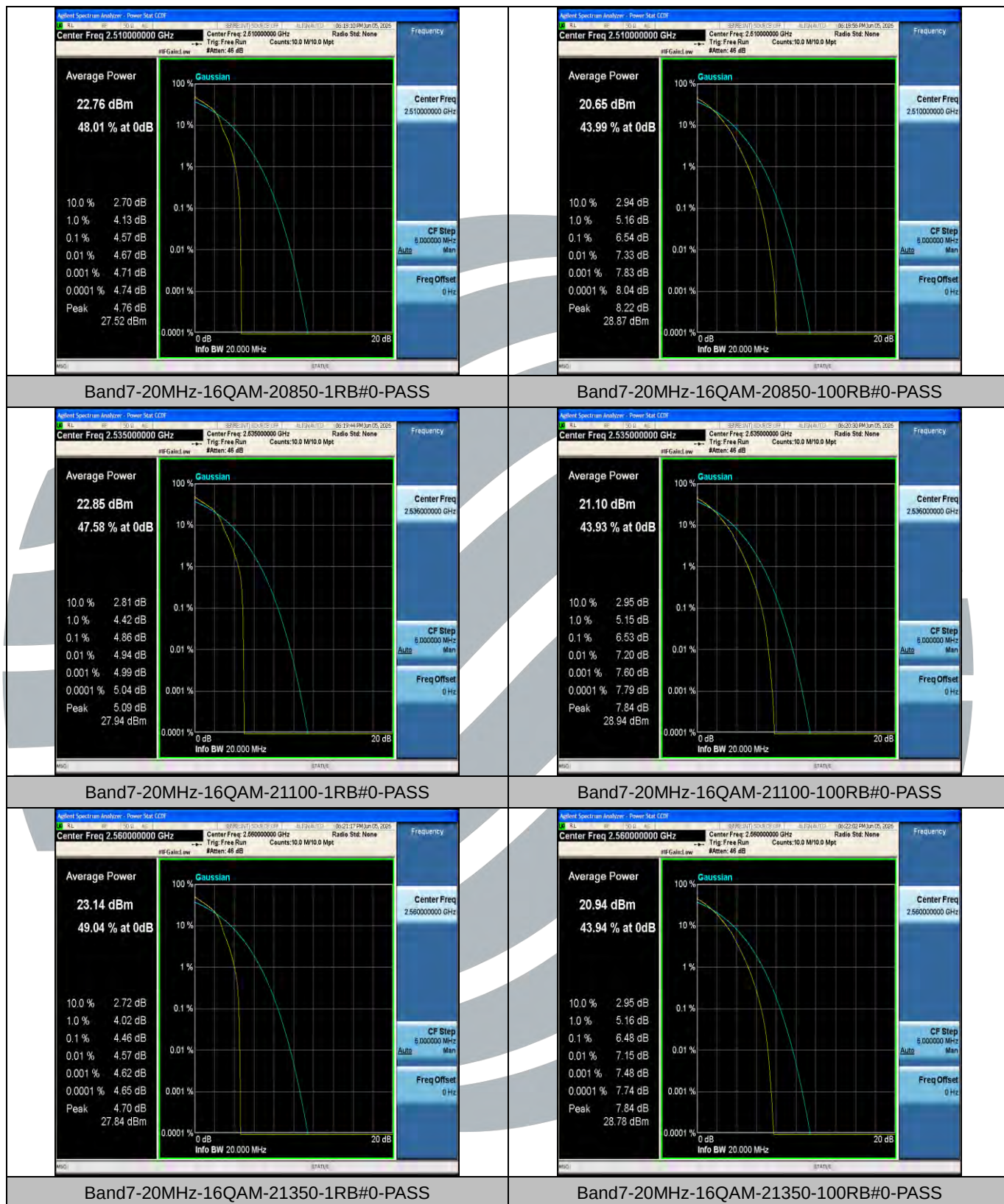
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band7	20MHz	QPSK	20850	1RB#0	3.70	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	6.57	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	3.88	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	6.50	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	3.43	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	6.50	13	PASS
Band7	20MHz	64QAM	20850	1RB#0	5.40	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.59	13	PASS
Band7	20MHz	64QAM	21100	1RB#0	5.57	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.52	13	PASS
Band7	20MHz	64QAM	21350	1RB#0	5.21	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.51	13	PASS
Band7	20MHz	256QAM	20850	1RB#0	6.40	13	PASS
Band7	20MHz	256QAM	20850	100RB#0	6.67	13	PASS
Band7	20MHz	256QAM	21100	1RB#0	6.63	13	PASS
Band7	20MHz	256QAM	21100	100RB#0	6.60	13	PASS
Band7	20MHz	256QAM	21350	1RB#0	6.56	13	PASS
Band7	20MHz	256QAM	21350	100RB#0	6.63	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	4.57	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.54	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	4.86	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.53	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	4.46	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.48	13	PASS

Test Graphs







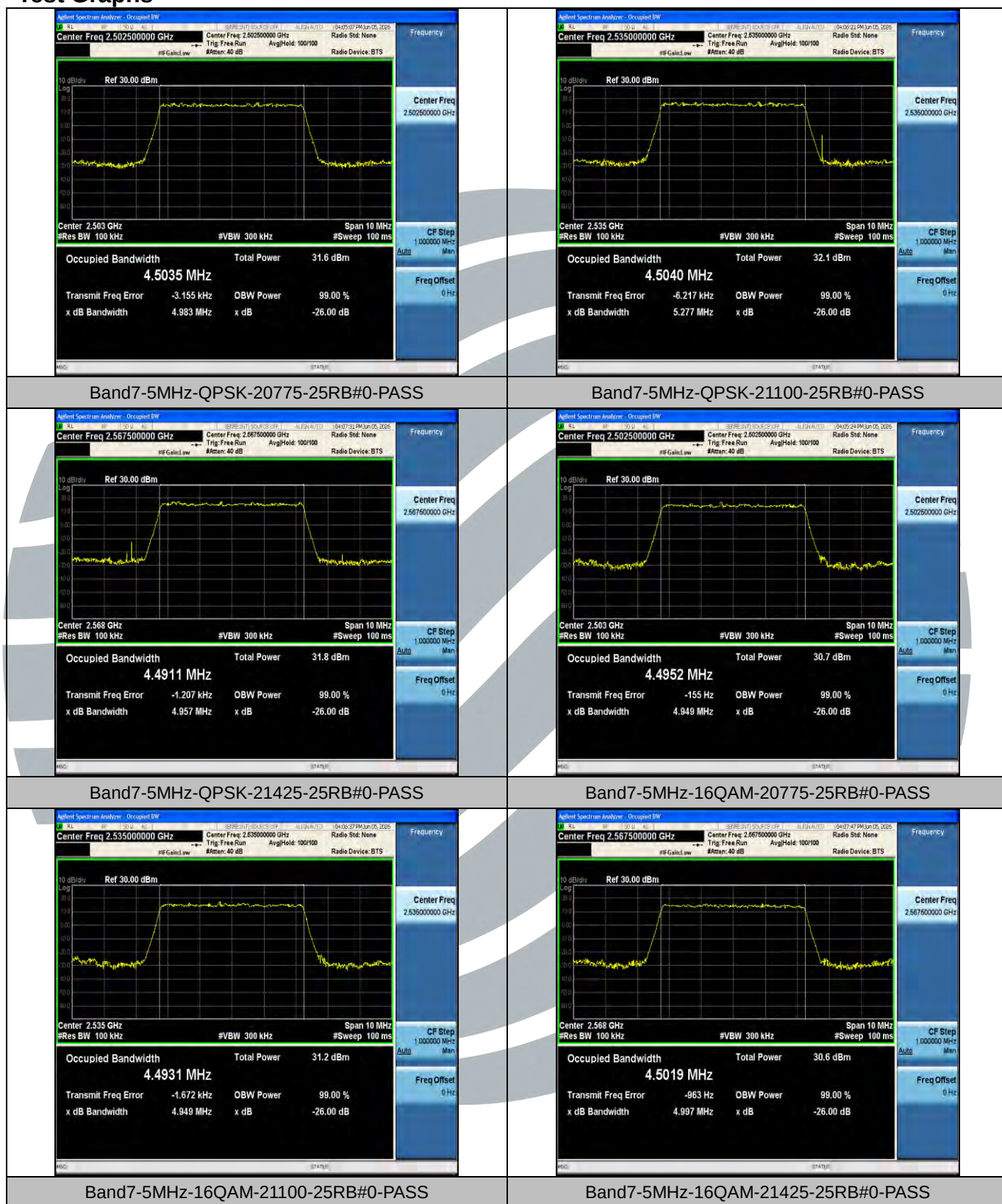


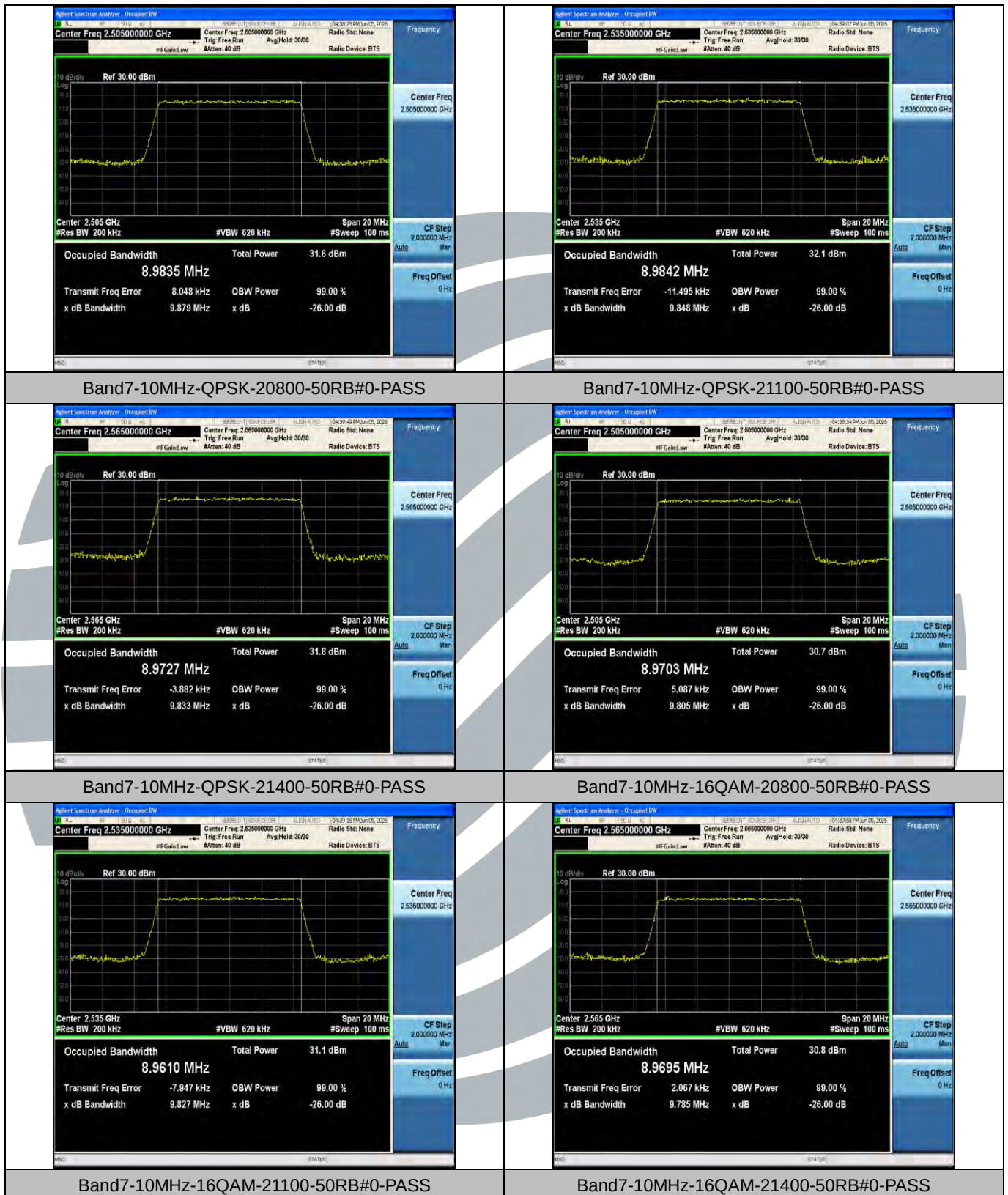
A.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

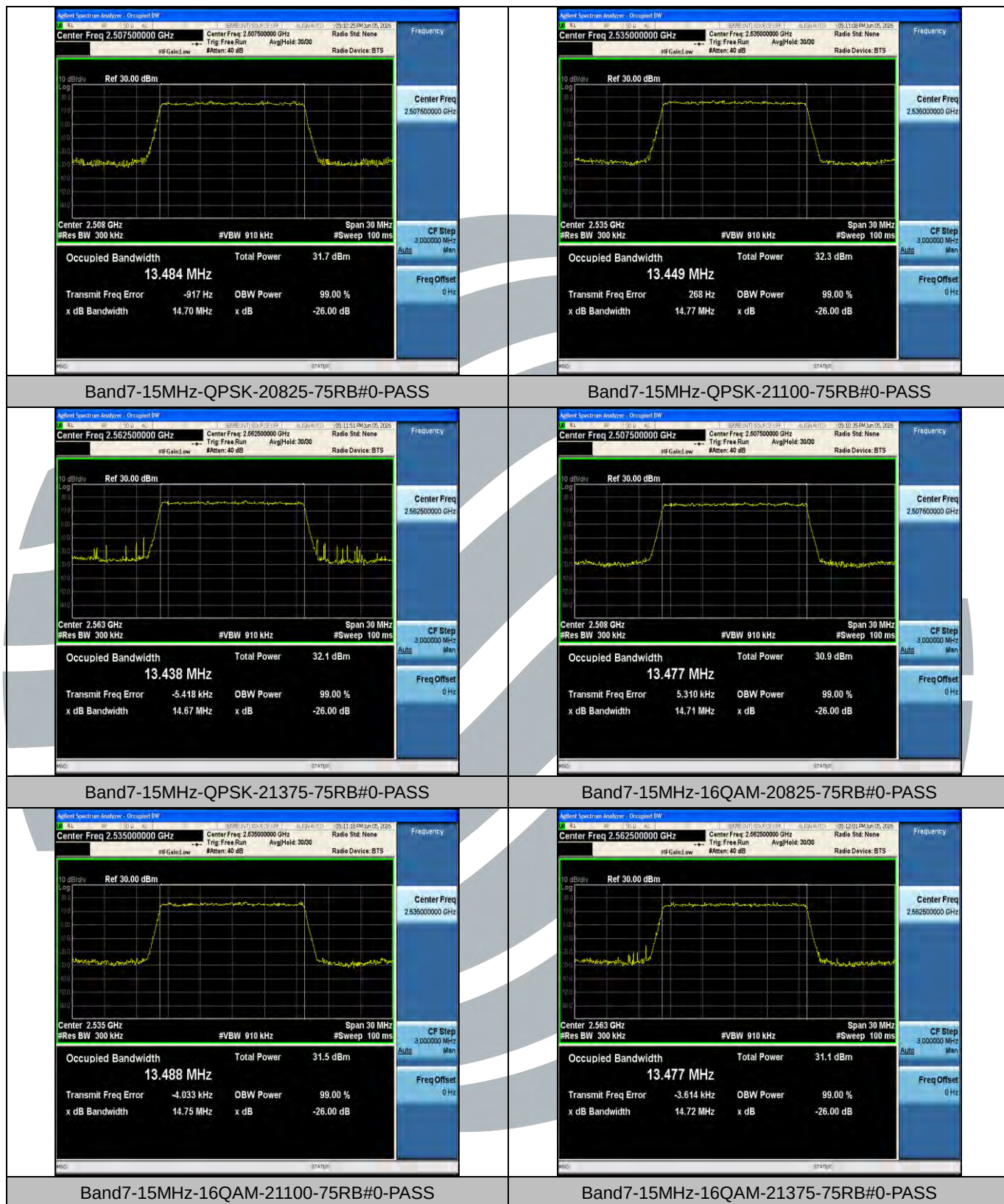
Test Result

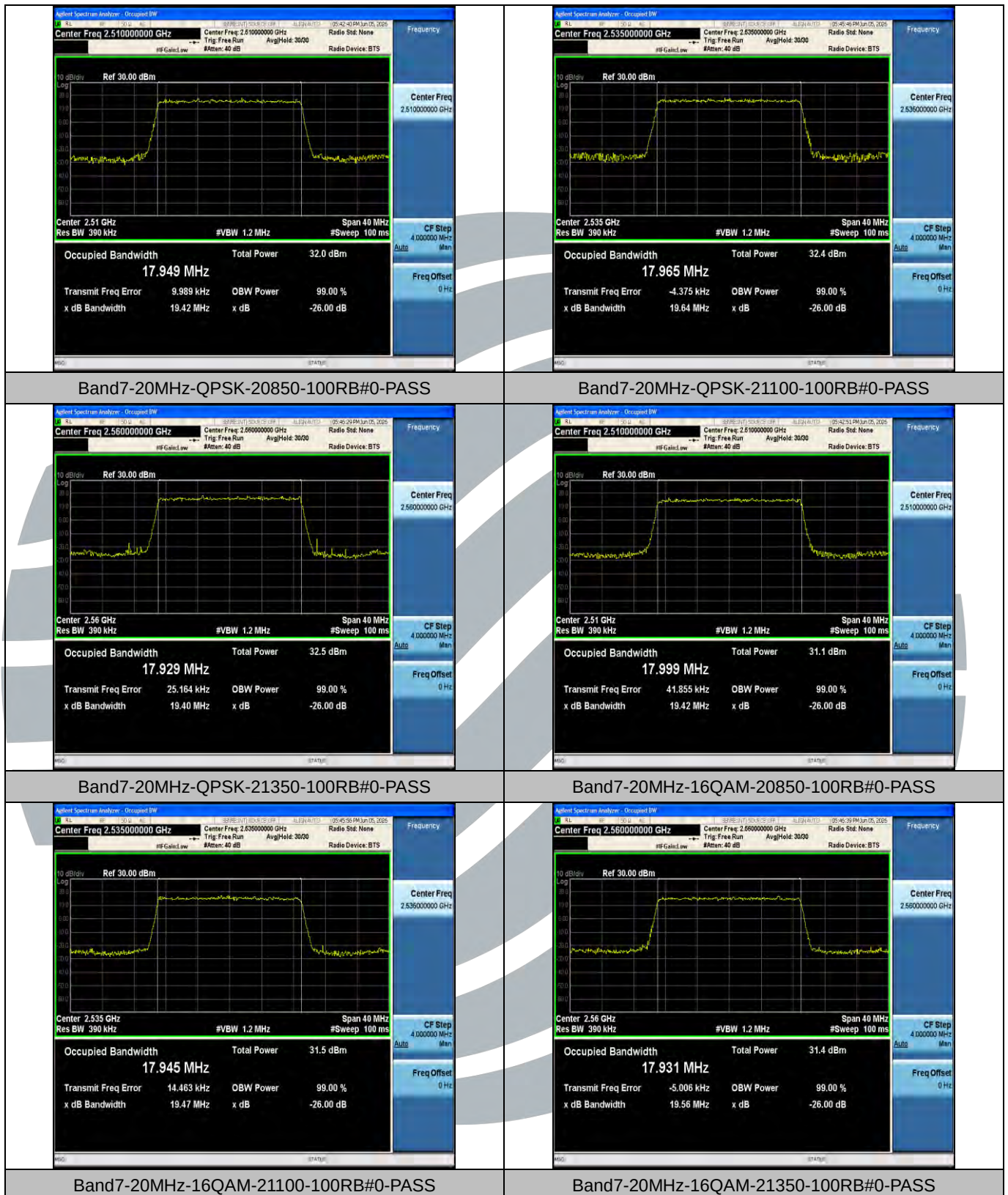
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5035	4.983	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5040	5.277	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4911	4.957	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4952	4.949	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4931	4.949	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5019	4.997	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9835	9.879	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9842	9.848	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9727	9.833	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9703	9.805	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9610	9.827	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9695	9.785	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.484	14.70	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.449	14.77	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.438	14.67	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.477	14.71	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.488	14.75	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.477	14.72	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.949	19.42	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.965	19.64	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.929	19.40	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.999	19.42	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.945	19.47	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.931	19.56	PASS

Test Graphs







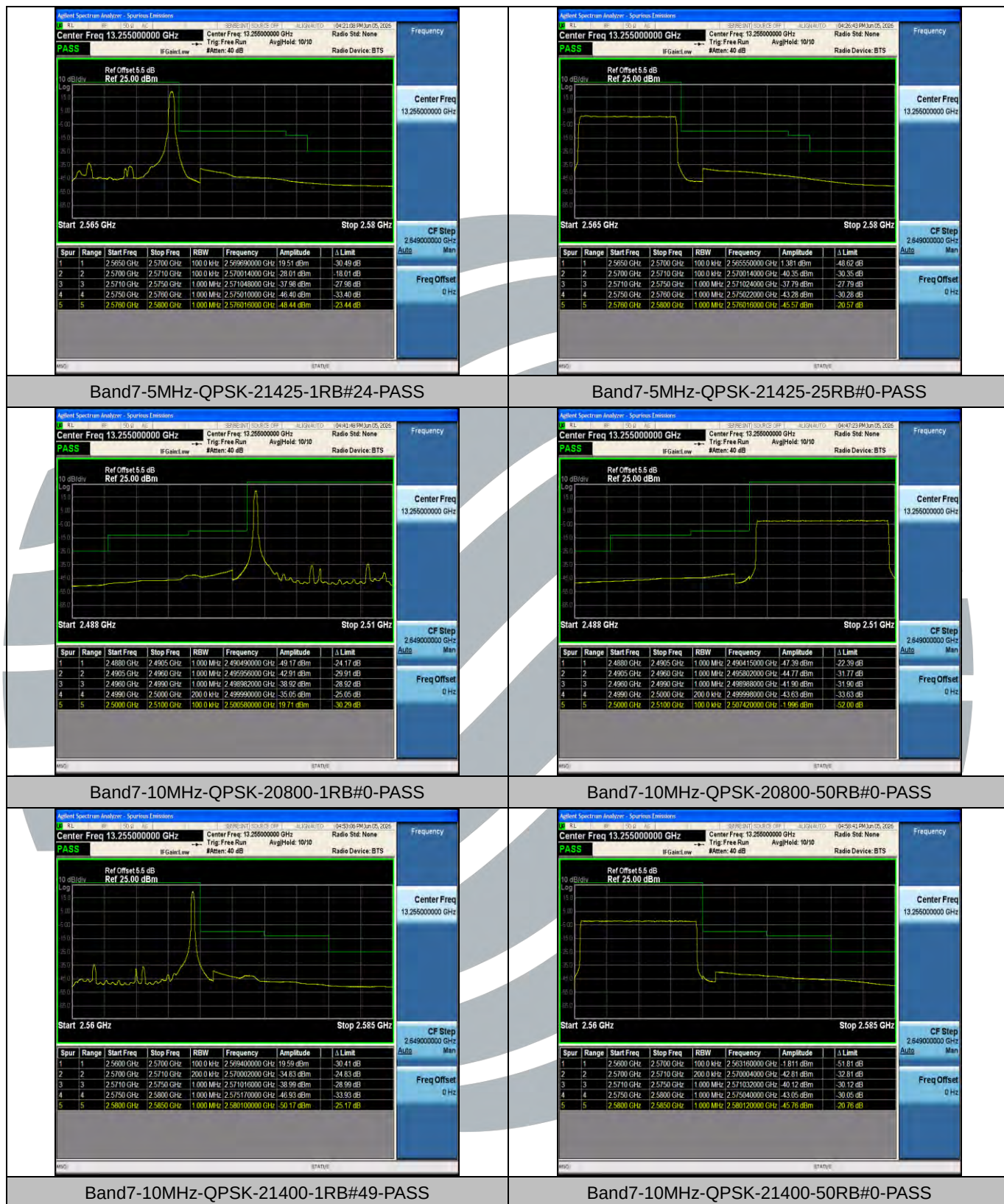


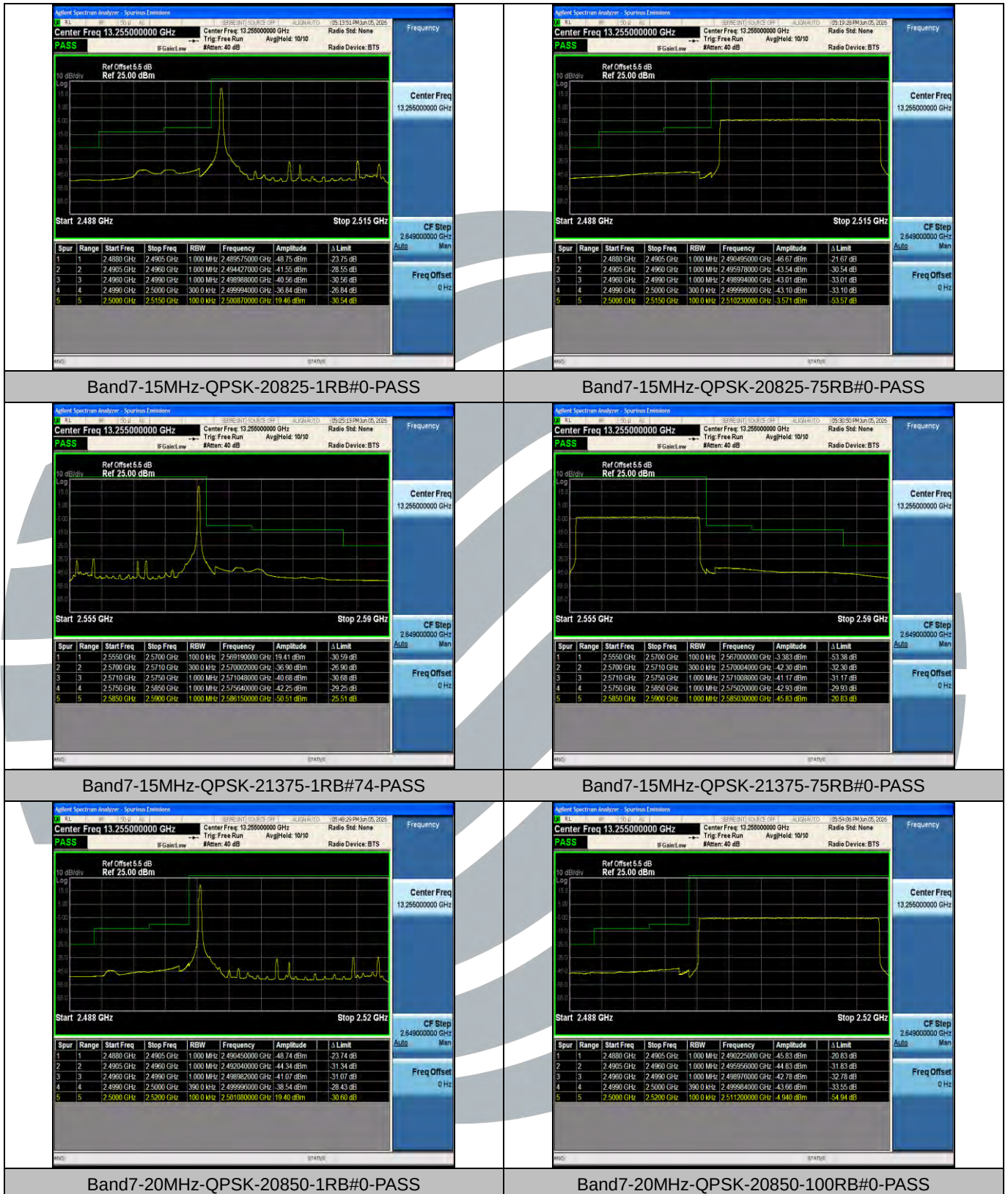
A.3 BAND EDGE Test Result

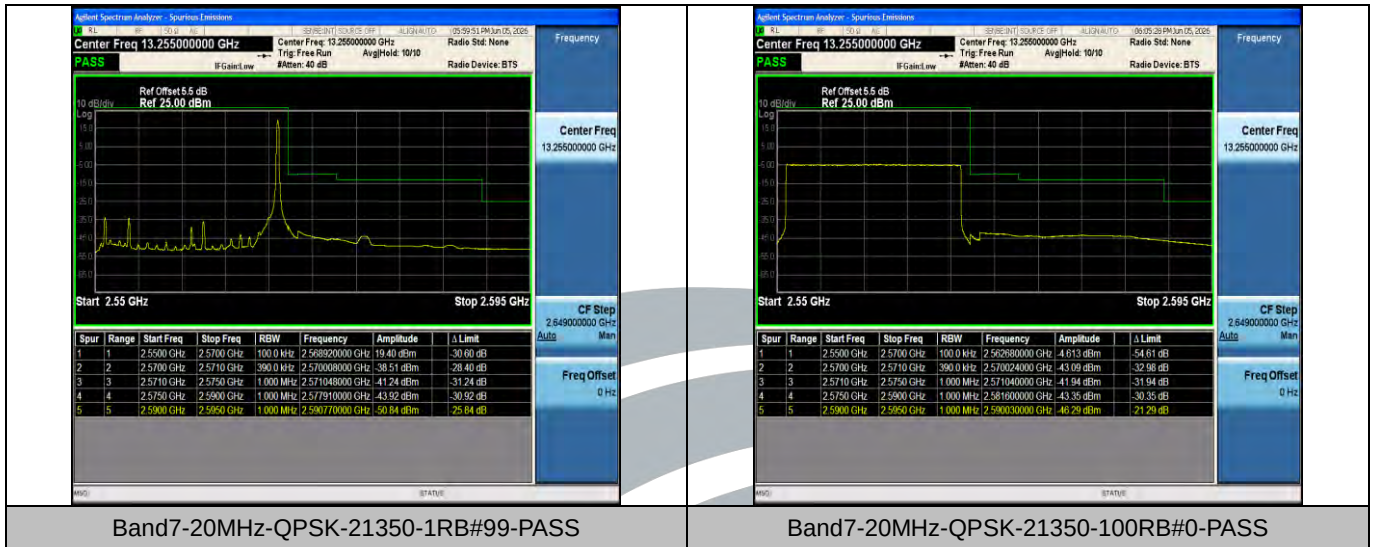
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-27.30	PASS
Band7	5MHz	QPSK	20775	25RB#0	-50.75	PASS
Band7	5MHz	QPSK	21425	1RB#24	-28.01	PASS
Band7	5MHz	QPSK	21425	25RB#0	-45.57	PASS
Band7	10MHz	QPSK	20800	1RB#0	-49.17	PASS
Band7	10MHz	QPSK	20800	50RB#0	-47.39	PASS
Band7	10MHz	QPSK	21400	1RB#49	-34.83	PASS
Band7	10MHz	QPSK	21400	50RB#0	-45.76	PASS
Band7	15MHz	QPSK	20825	1RB#0	-48.75	PASS
Band7	15MHz	QPSK	20825	75RB#0	-46.67	PASS
Band7	15MHz	QPSK	21375	1RB#74	-50.51	PASS
Band7	15MHz	QPSK	21375	75RB#0	-45.83	PASS
Band7	20MHz	QPSK	20850	1RB#0	-48.74	PASS
Band7	20MHz	QPSK	20850	100RB#0	-45.83	PASS
Band7	20MHz	QPSK	21350	1RB#99	-50.84	PASS
Band7	20MHz	QPSK	21350	100RB#0	-46.29	PASS

Test Graphs







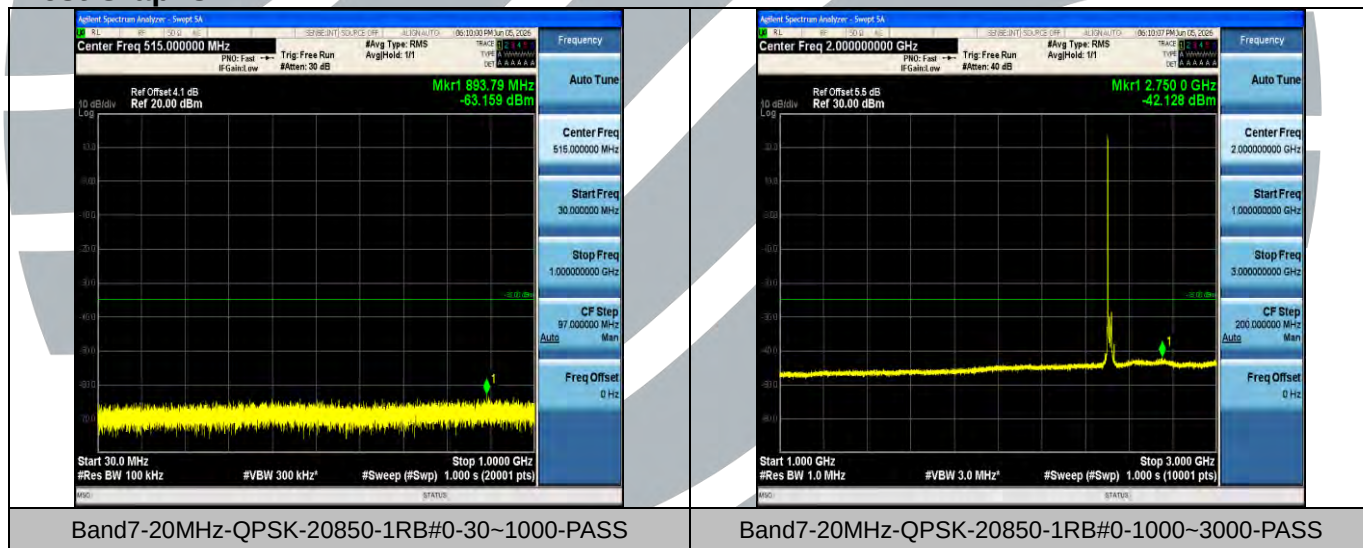


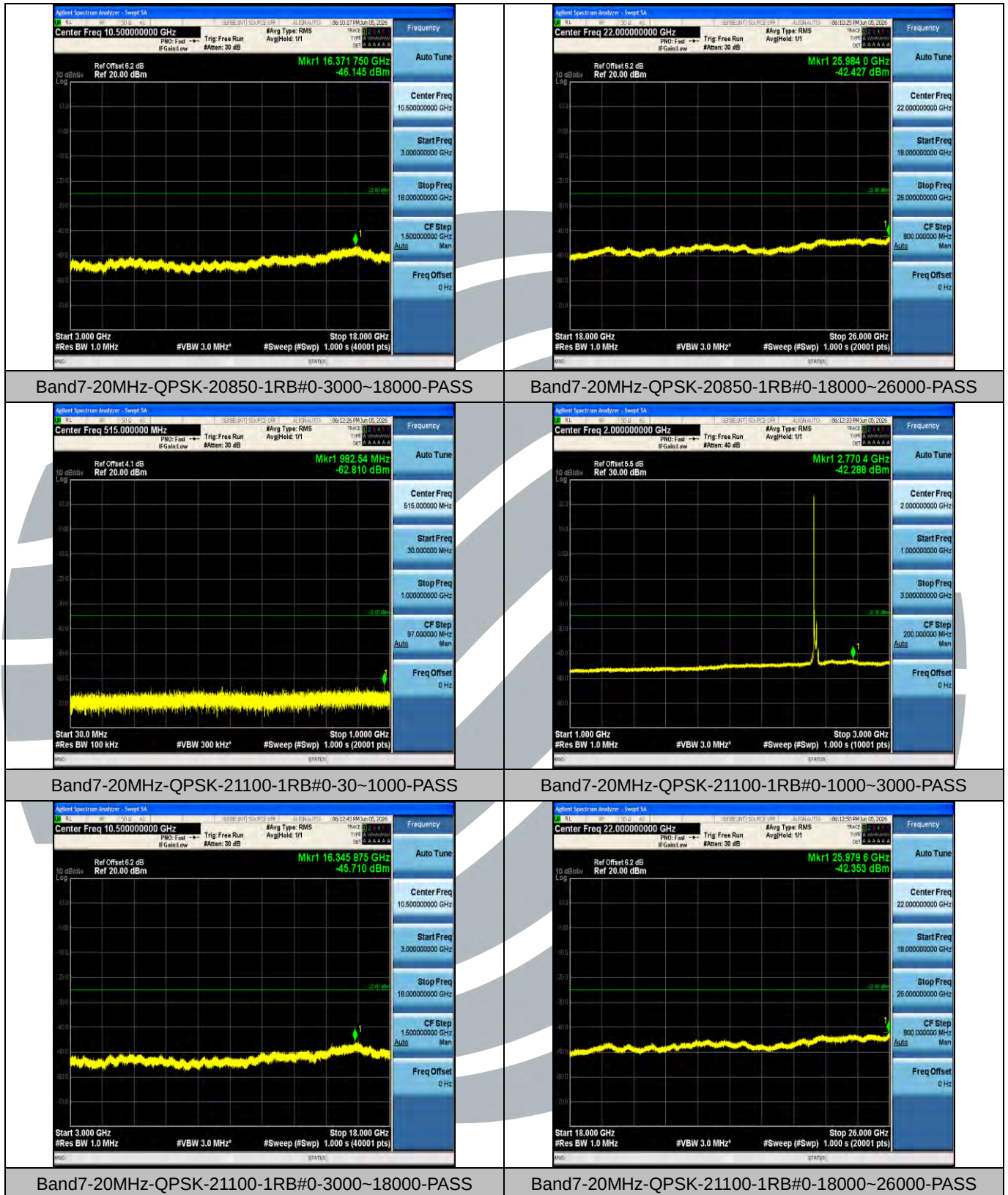
A.4 CONDUCTED SPURIOUS EMISSION

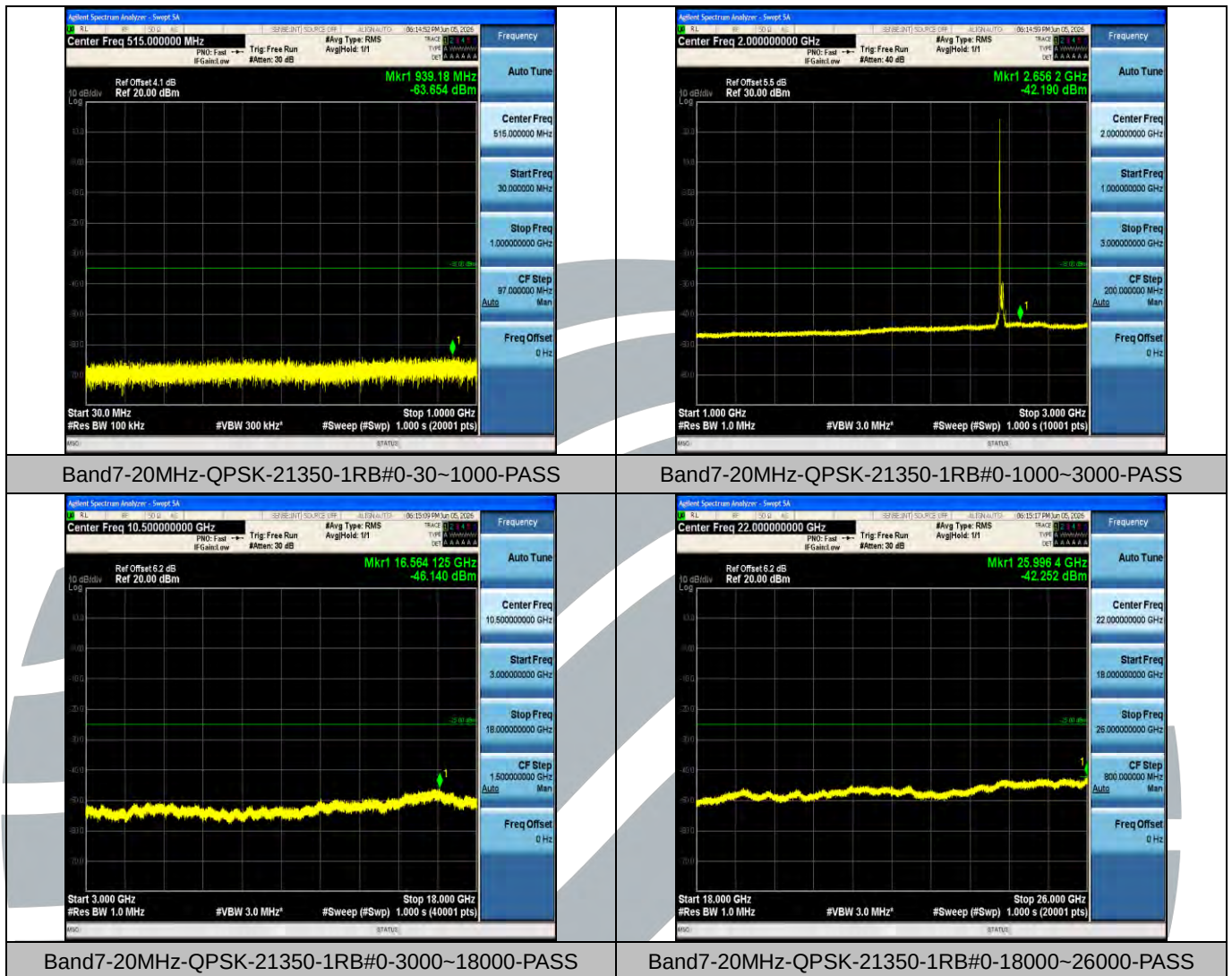
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range (MHz)	Result (dBm)	Verdict
Band7	20MHz	QPSK	20850	1RB#0	30~1000	-63.16	PASS
Band7	20MHz	QPSK	20850	1RB#0	1000~3000	-42.13	PASS
Band7	20MHz	QPSK	20850	1RB#0	3000~18000	-46.15	PASS
Band7	20MHz	QPSK	20850	1RB#0	18000~26000	-42.43	PASS
Band7	20MHz	QPSK	21100	1RB#0	30~1000	-62.81	PASS
Band7	20MHz	QPSK	21100	1RB#0	1000~3000	-42.29	PASS
Band7	20MHz	QPSK	21100	1RB#0	3000~18000	-45.71	PASS
Band7	20MHz	QPSK	21100	1RB#0	18000~26000	-42.35	PASS
Band7	20MHz	QPSK	21350	1RB#0	30~1000	-63.65	PASS
Band7	20MHz	QPSK	21350	1RB#0	1000~3000	-42.19	PASS
Band7	20MHz	QPSK	21350	1RB#0	3000~18000	-46.14	PASS
Band7	20MHz	QPSK	21350	1RB#0	18000~26000	-42.25	PASS

Test Graphs







A.5 FREQUENCY STABILITY

Test Result

Voltage										
Band	BW	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-6.95	-0.002742	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-10.39	-0.004099	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-12.20	-0.004813	±2.5	PASS

Temperature										
Band	BW	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-6.62	-0.002611	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-9.71	-0.003830	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-6.27	-0.002473	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-8.75	-0.003452	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-7.65	-0.003018	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-12.92	-0.005097	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	9.48	0.003740	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-7.80	-0.003077	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	8.34	0.003290	±2.5	PASS