

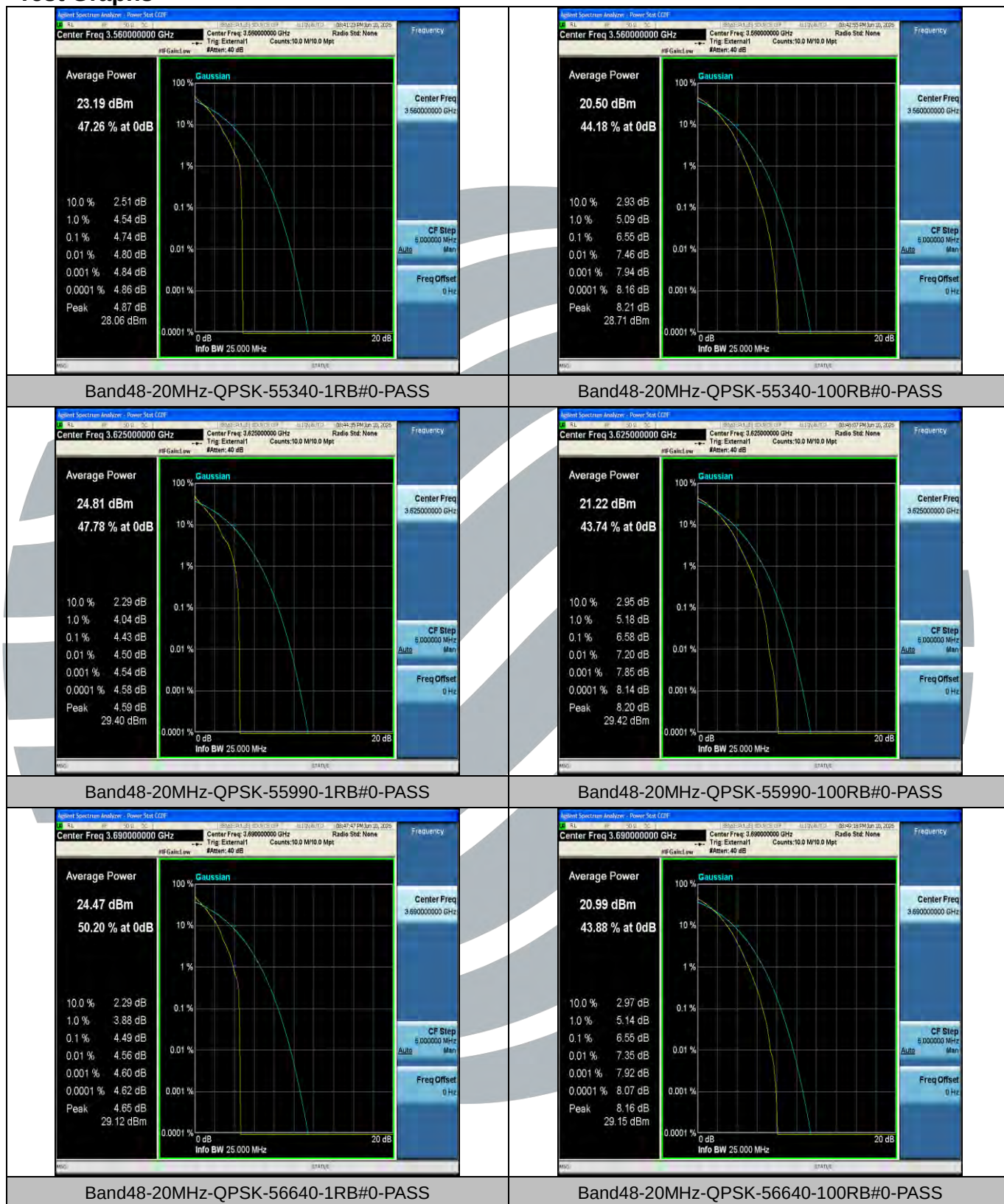
APPENDIX A LTE BAND 48 RF TEST DATA

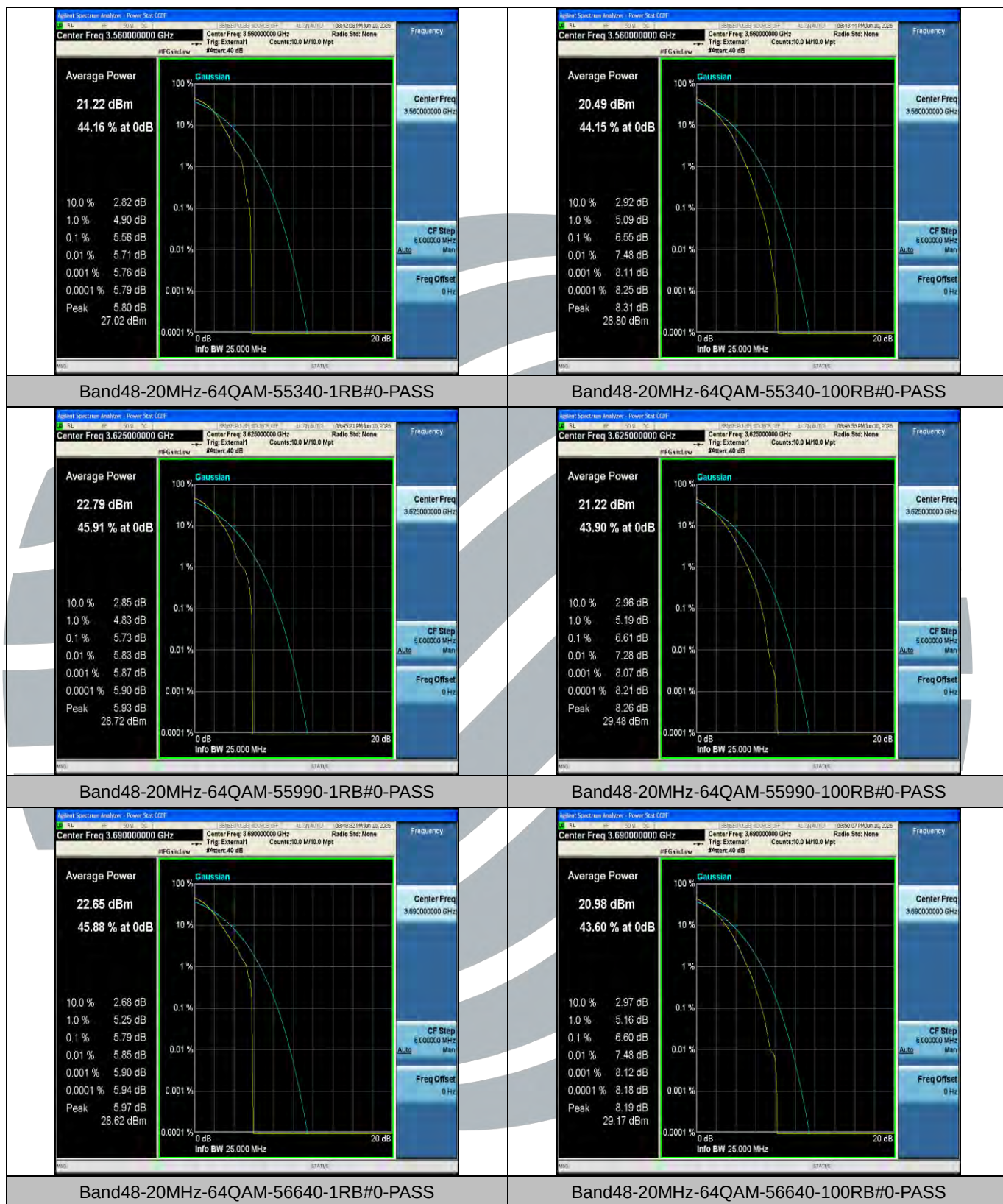
A.1 PEAK-TO-AVERAGE RATIO(CCDF)

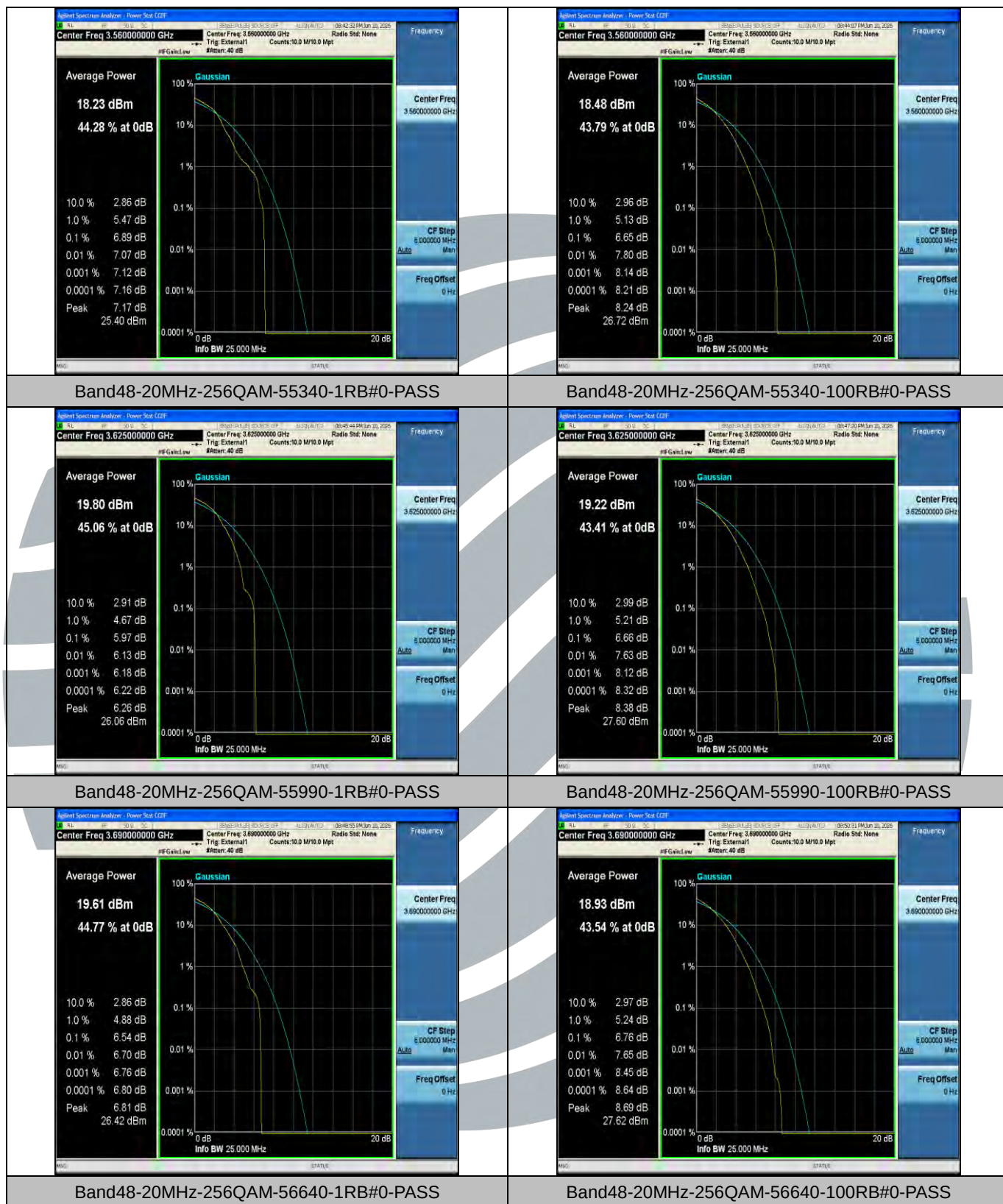
Test Result

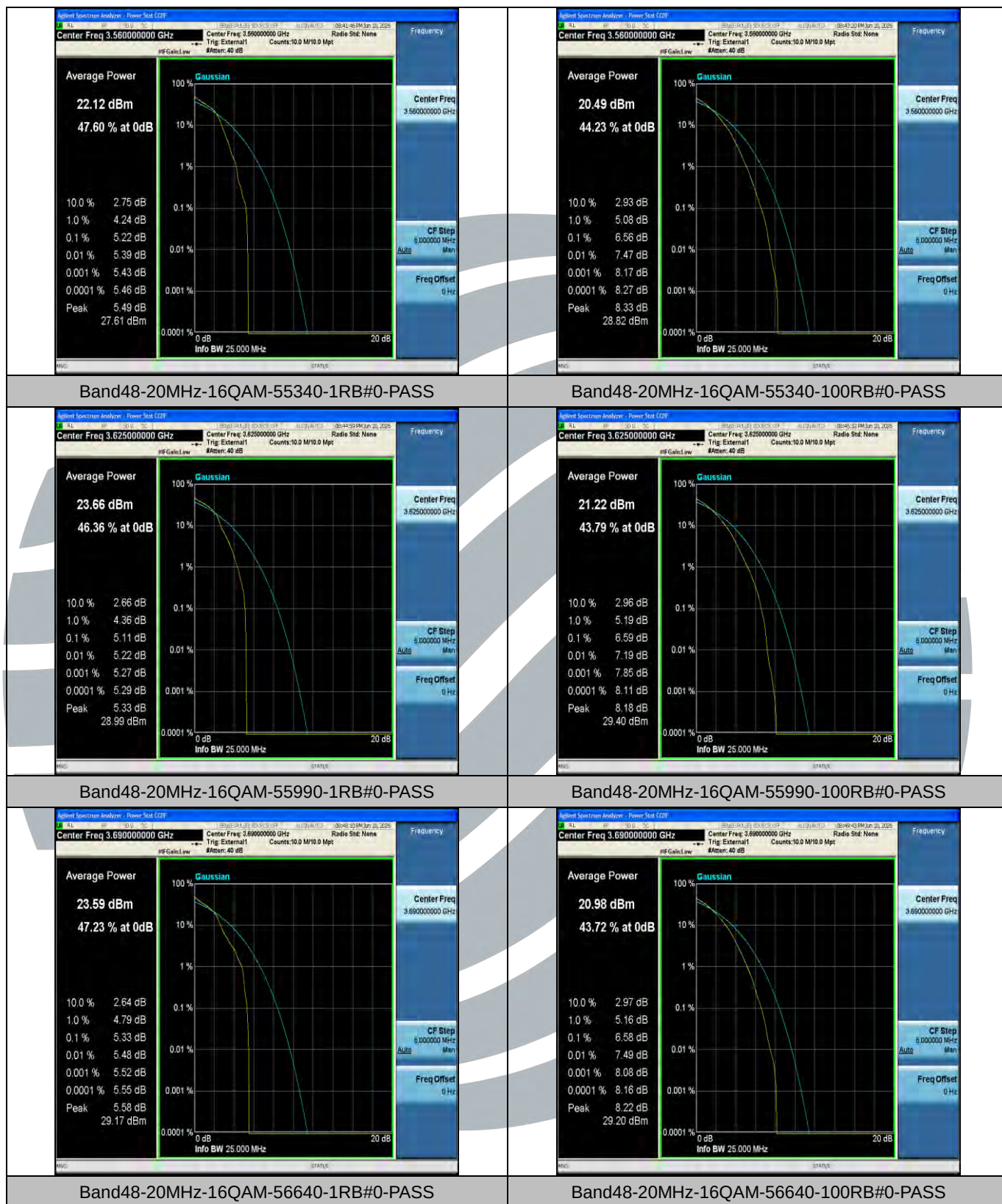
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band48	20MHz	QPSK	55340	1RB#0	4.74	13	PASS
Band48	20MHz	QPSK	55340	100RB#0	6.55	13	PASS
Band48	20MHz	QPSK	55990	1RB#0	4.43	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	6.58	13	PASS
Band48	20MHz	QPSK	56640	1RB#0	4.49	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	6.55	13	PASS
Band48	20MHz	64QAM	55340	1RB#0	5.56	13	PASS
Band48	20MHz	64QAM	55340	100RB#0	6.55	13	PASS
Band48	20MHz	64QAM	55990	1RB#0	5.73	13	PASS
Band48	20MHz	64QAM	55990	100RB#0	6.61	13	PASS
Band48	20MHz	64QAM	56640	1RB#0	5.79	13	PASS
Band48	20MHz	64QAM	56640	100RB#0	6.60	13	PASS
Band48	20MHz	256QAM	55340	1RB#0	6.89	13	PASS
Band48	20MHz	256QAM	55340	100RB#0	6.65	13	PASS
Band48	20MHz	256QAM	55990	1RB#0	5.97	13	PASS
Band48	20MHz	256QAM	55990	100RB#0	6.66	13	PASS
Band48	20MHz	256QAM	56640	1RB#0	6.54	13	PASS
Band48	20MHz	256QAM	56640	100RB#0	6.76	13	PASS
Band48	20MHz	16QAM	55340	1RB#0	5.22	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	6.56	13	PASS
Band48	20MHz	16QAM	55990	1RB#0	5.11	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	6.59	13	PASS
Band48	20MHz	16QAM	56640	1RB#0	5.33	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	6.58	13	PASS

Test Graphs







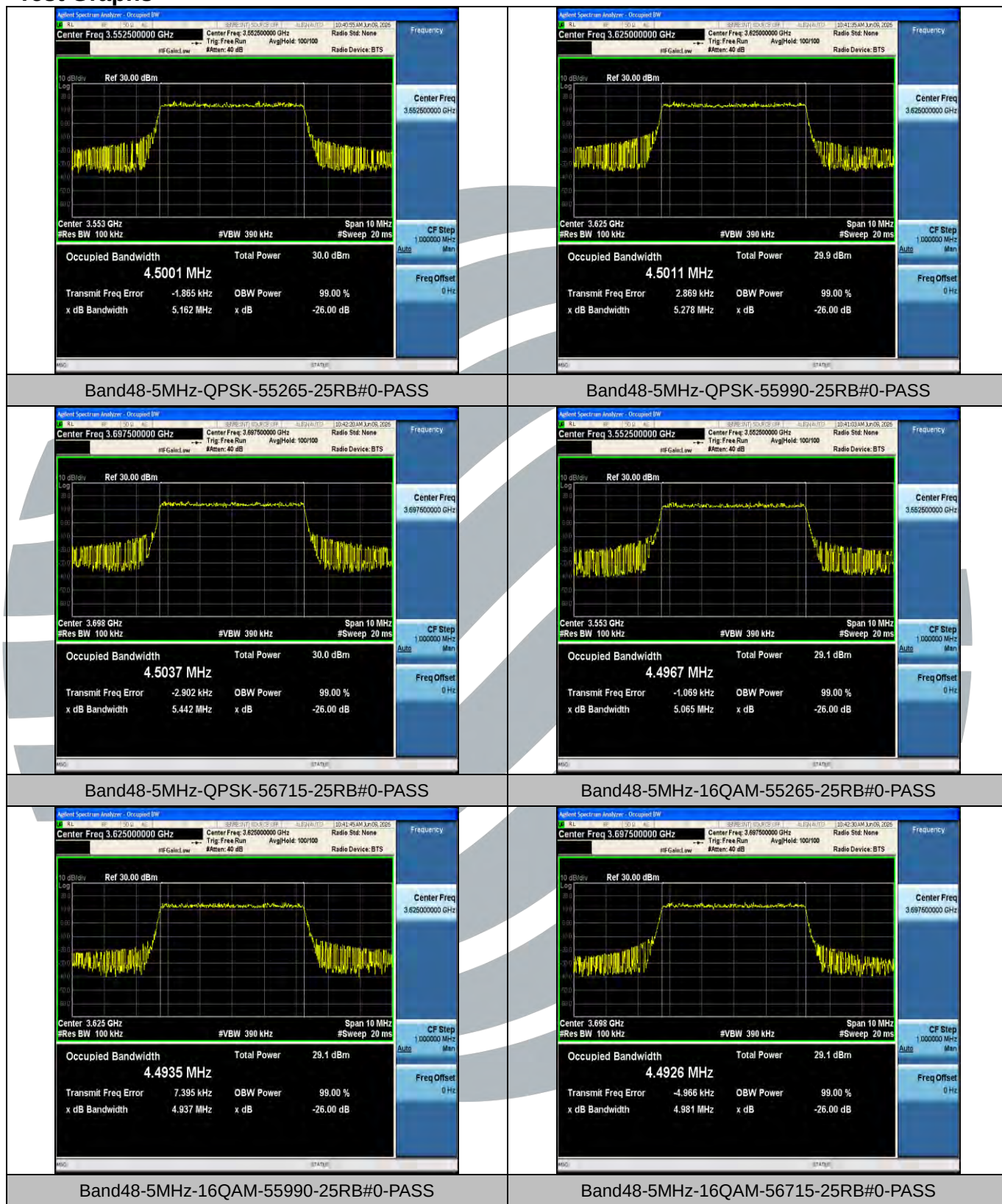


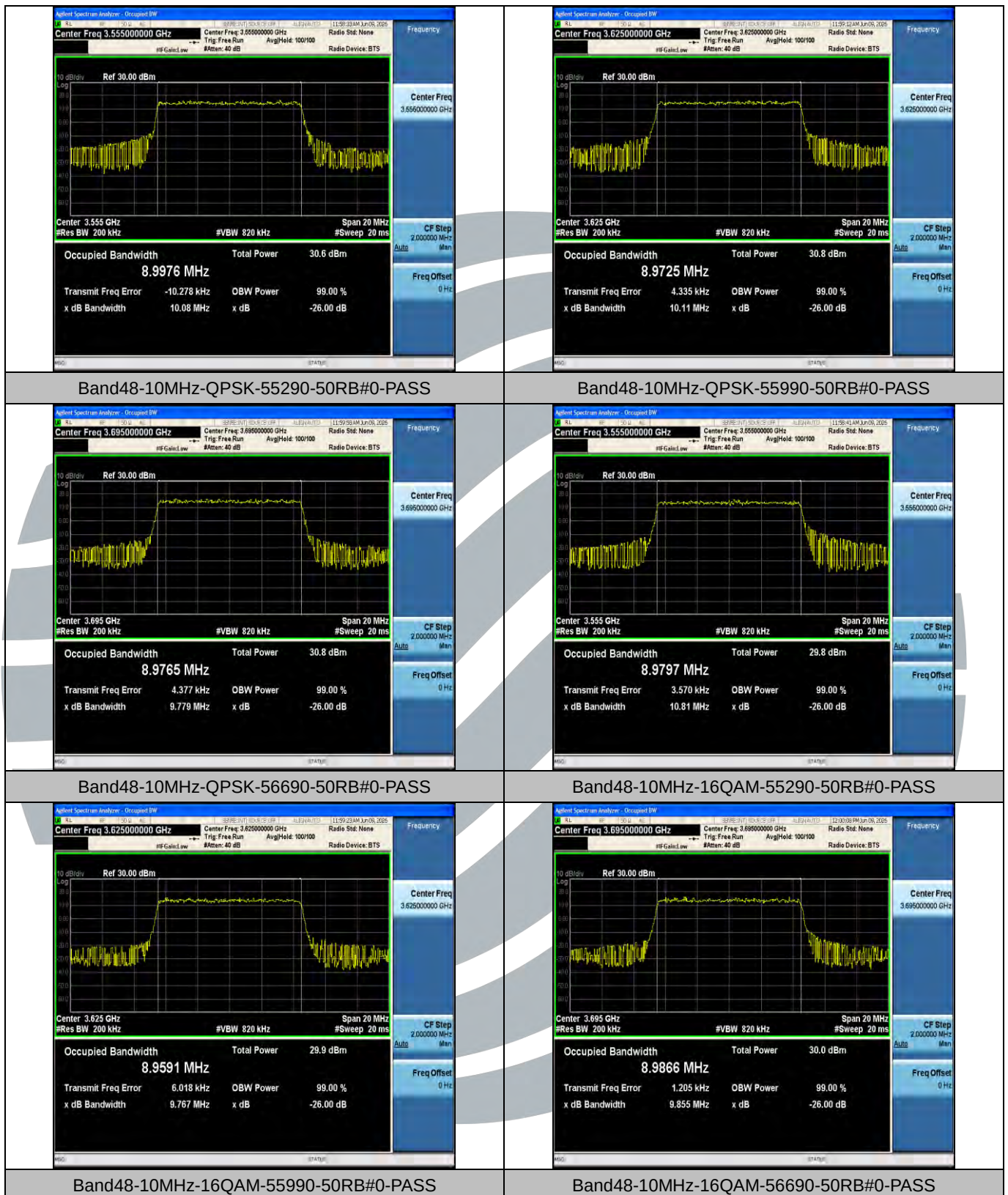
A.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

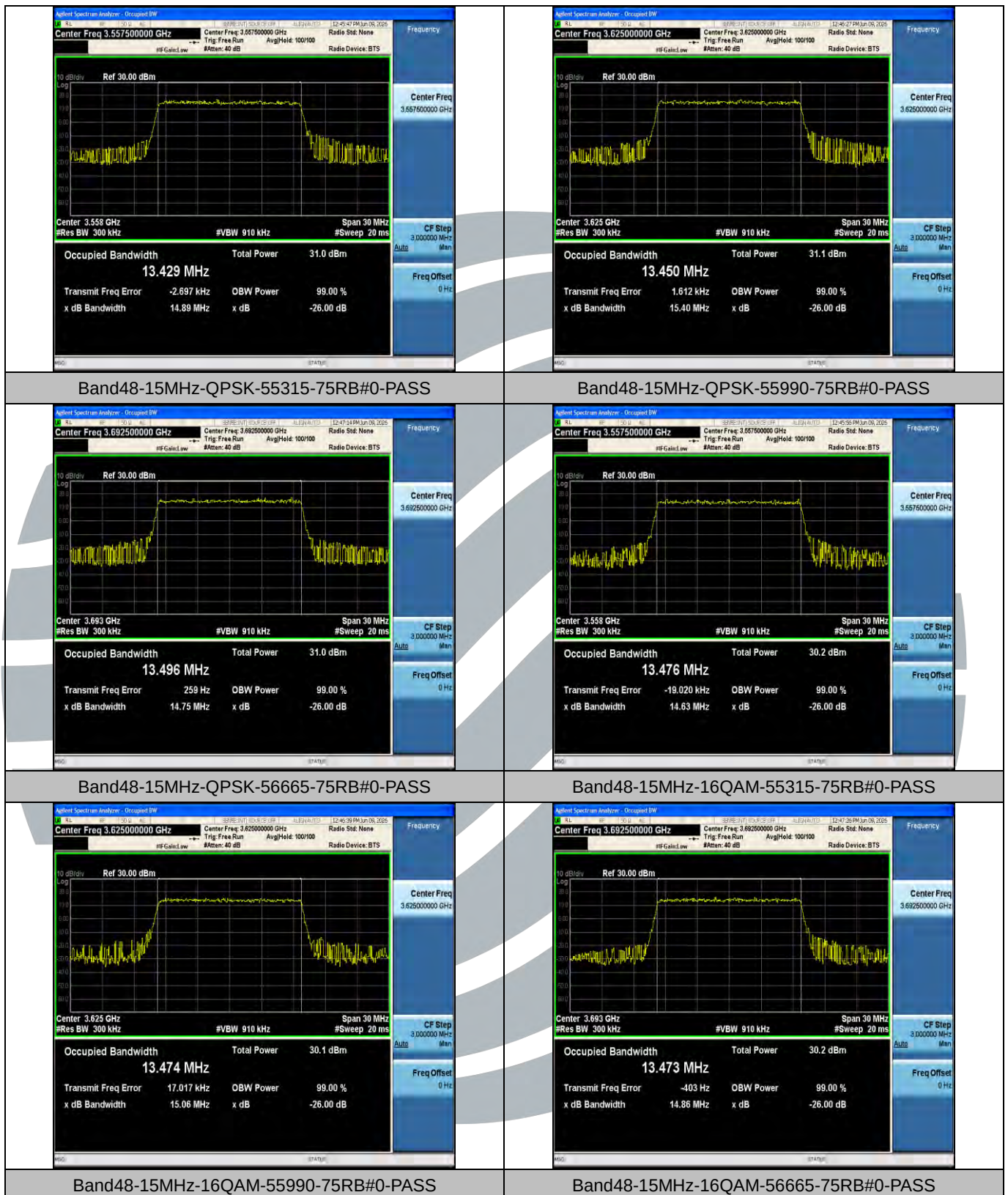
Test Result

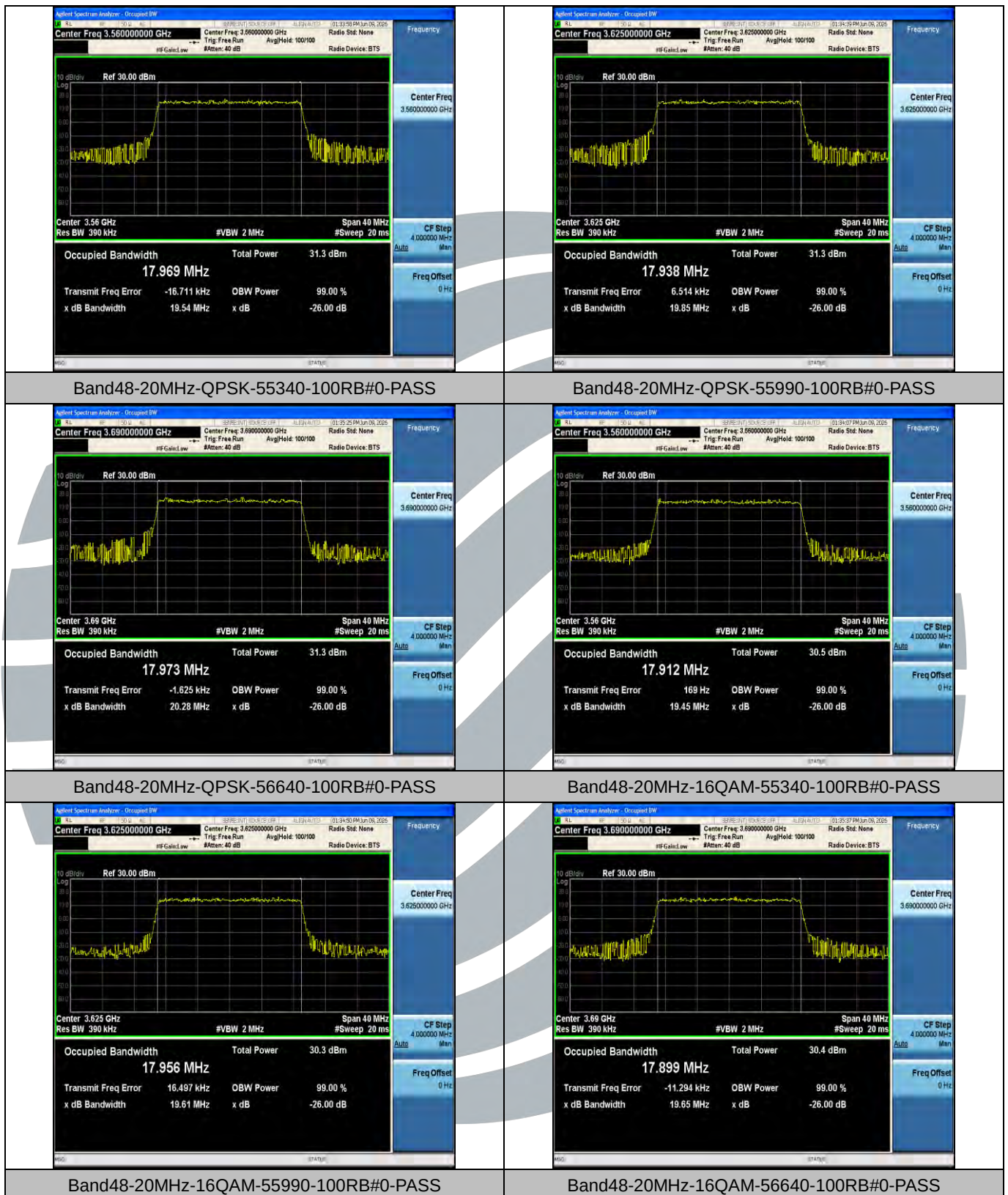
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band48	5MHz	QPSK	55265	25RB#0	4.5001	5.162	PASS
Band48	5MHz	QPSK	55990	25RB#0	4.5011	5.278	PASS
Band48	5MHz	QPSK	56715	25RB#0	4.5037	5.442	PASS
Band48	5MHz	16QAM	55265	25RB#0	4.4967	5.065	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.4935	4.937	PASS
Band48	5MHz	16QAM	56715	25RB#0	4.4926	4.981	PASS
Band48	10MHz	QPSK	55290	50RB#0	8.9976	10.08	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.9725	10.11	PASS
Band48	10MHz	QPSK	56690	50RB#0	8.9765	9.779	PASS
Band48	10MHz	16QAM	55290	50RB#0	8.9797	10.81	PASS
Band48	10MHz	16QAM	55990	50RB#0	8.9591	9.767	PASS
Band48	10MHz	16QAM	56690	50RB#0	8.9866	9.855	PASS
Band48	15MHz	QPSK	55315	75RB#0	13.429	14.89	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.450	15.40	PASS
Band48	15MHz	QPSK	56665	75RB#0	13.496	14.75	PASS
Band48	15MHz	16QAM	55315	75RB#0	13.476	14.63	PASS
Band48	15MHz	16QAM	55990	75RB#0	13.474	15.06	PASS
Band48	15MHz	16QAM	56665	75RB#0	13.473	14.86	PASS
Band48	20MHz	QPSK	55340	100RB#0	17.969	19.54	PASS
Band48	20MHz	QPSK	55990	100RB#0	17.938	19.85	PASS
Band48	20MHz	QPSK	56640	100RB#0	17.973	20.28	PASS
Band48	20MHz	16QAM	55340	100RB#0	17.912	19.45	PASS
Band48	20MHz	16QAM	55990	100RB#0	17.956	19.61	PASS
Band48	20MHz	16QAM	56640	100RB#0	17.899	19.65	PASS

Test Graphs





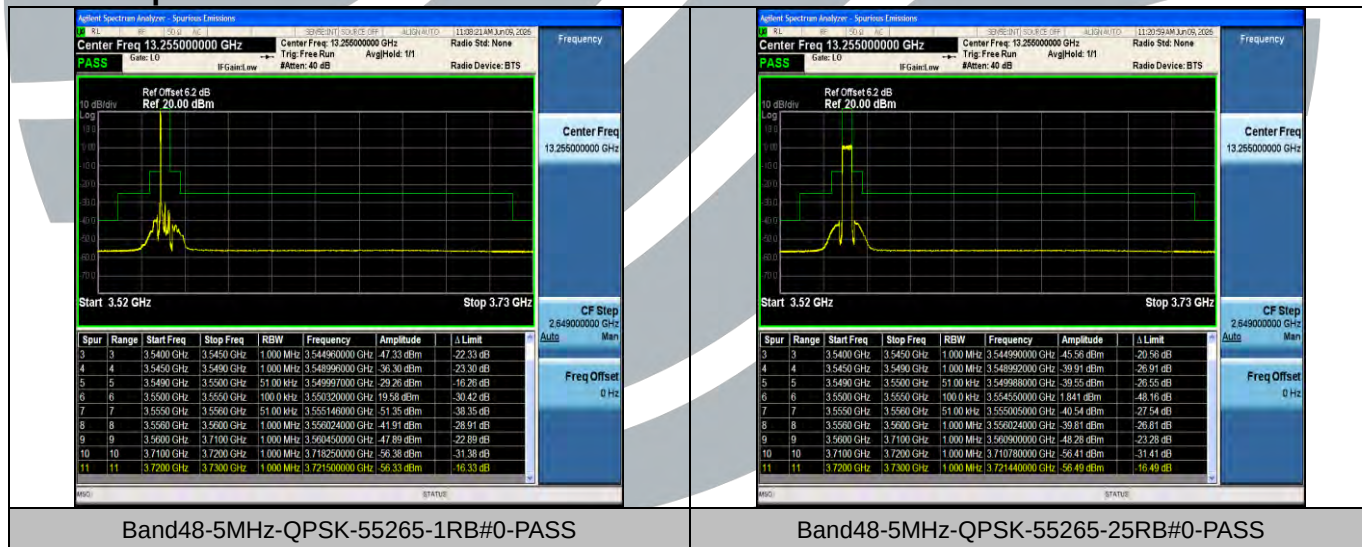


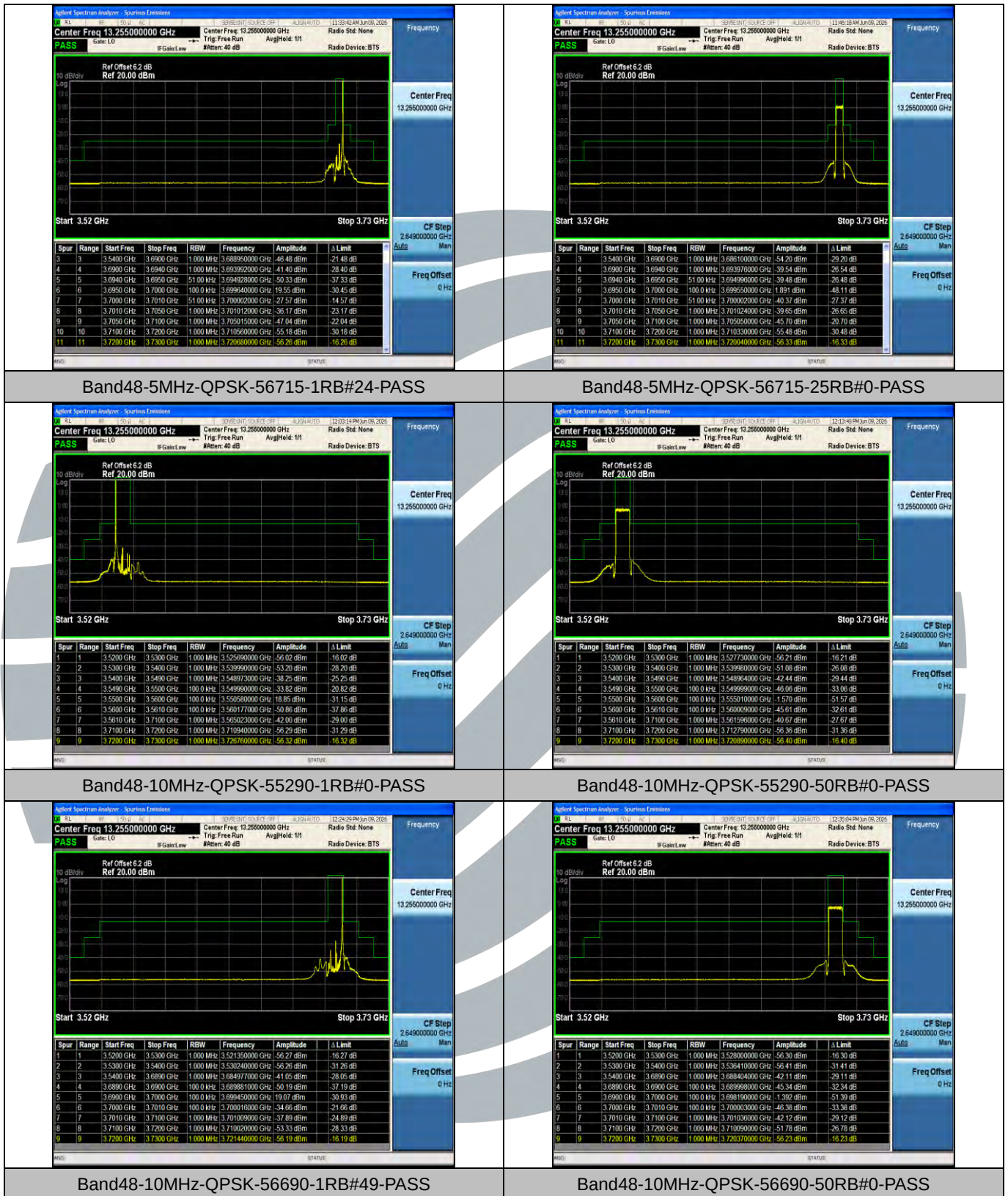


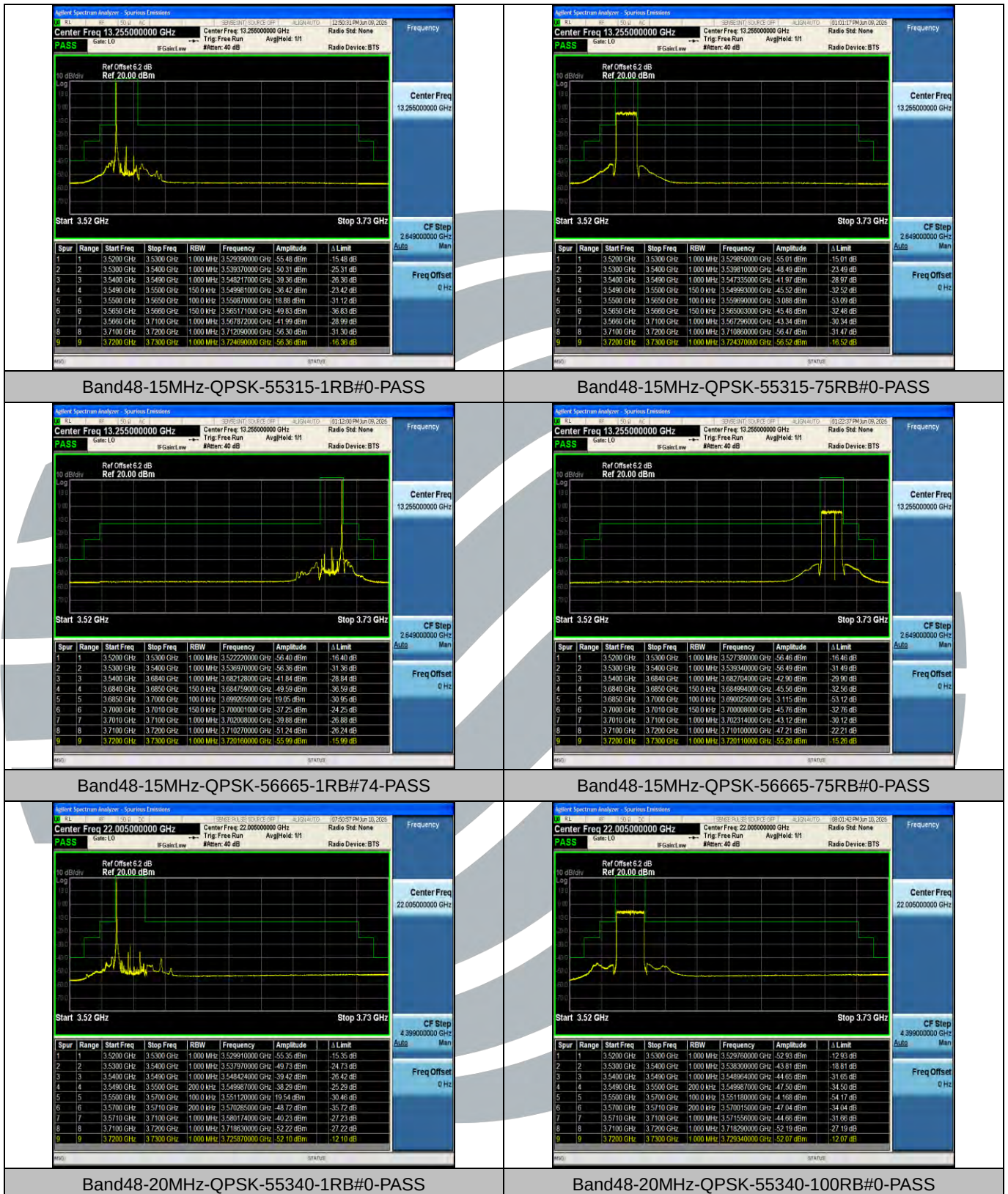
A.3 BAND EDGE Test Result

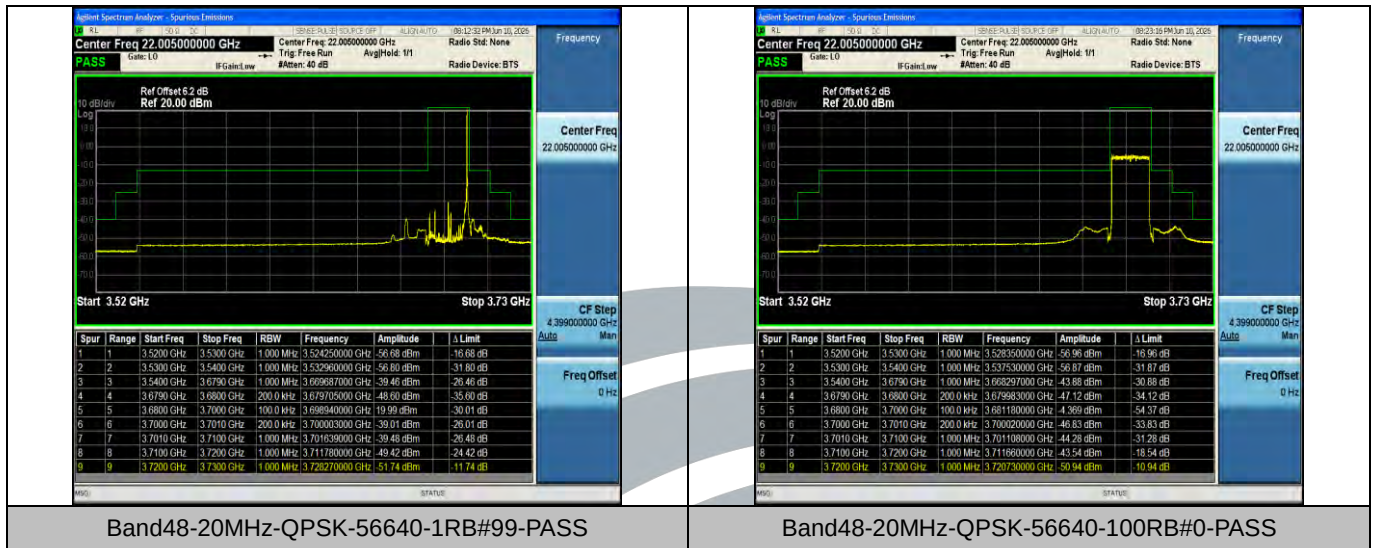
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	-56.11	PASS
Band48	5MHz	QPSK	55265	25RB#0	-56.16	PASS
Band48	5MHz	QPSK	56715	1RB#24	-27.57	PASS
Band48	5MHz	QPSK	56715	25RB#0	-56.33	PASS
Band48	10MHz	QPSK	55290	1RB#0	-56.02	PASS
Band48	10MHz	QPSK	55290	50RB#0	-56.21	PASS
Band48	10MHz	QPSK	56690	1RB#49	-56.19	PASS
Band48	10MHz	QPSK	56690	50RB#0	-56.23	PASS
Band48	15MHz	QPSK	55315	1RB#0	-55.48	PASS
Band48	15MHz	QPSK	55315	75RB#0	-55.01	PASS
Band48	15MHz	QPSK	56665	1RB#74	-55.99	PASS
Band48	15MHz	QPSK	56665	75RB#0	-55.26	PASS
Band48	20MHz	QPSK	55340	1RB#0	-52.10	PASS
Band48	20MHz	QPSK	55340	100RB#0	-52.07	PASS
Band48	20MHz	QPSK	56640	1RB#99	-51.74	PASS
Band48	20MHz	QPSK	56640	100RB#0	-50.94	PASS

Test Graphs







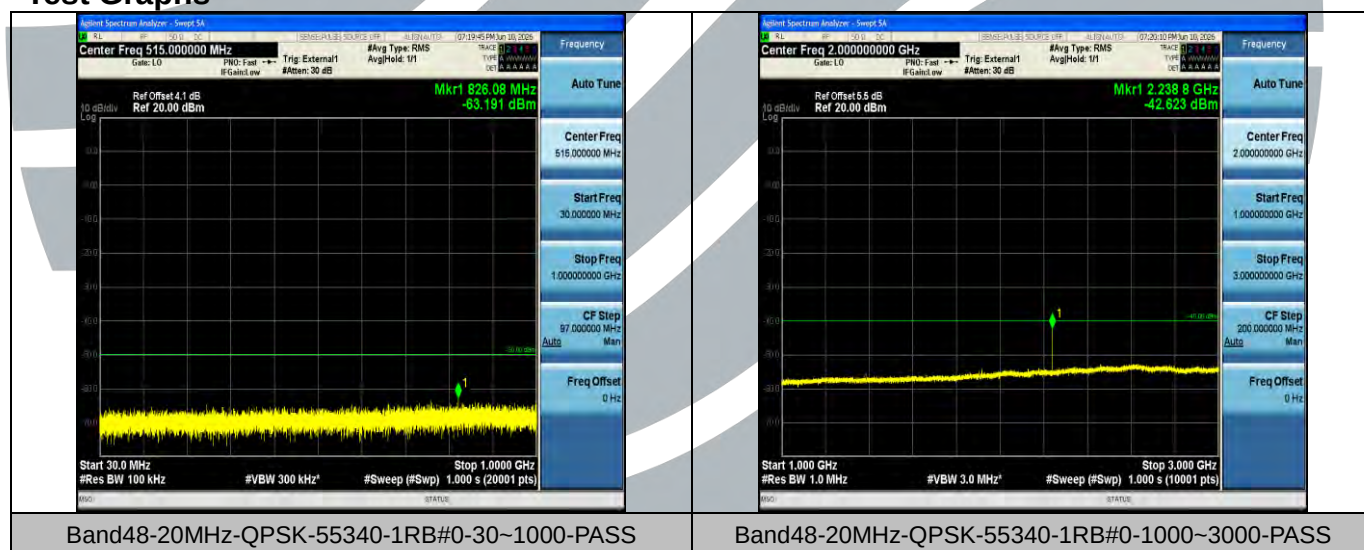


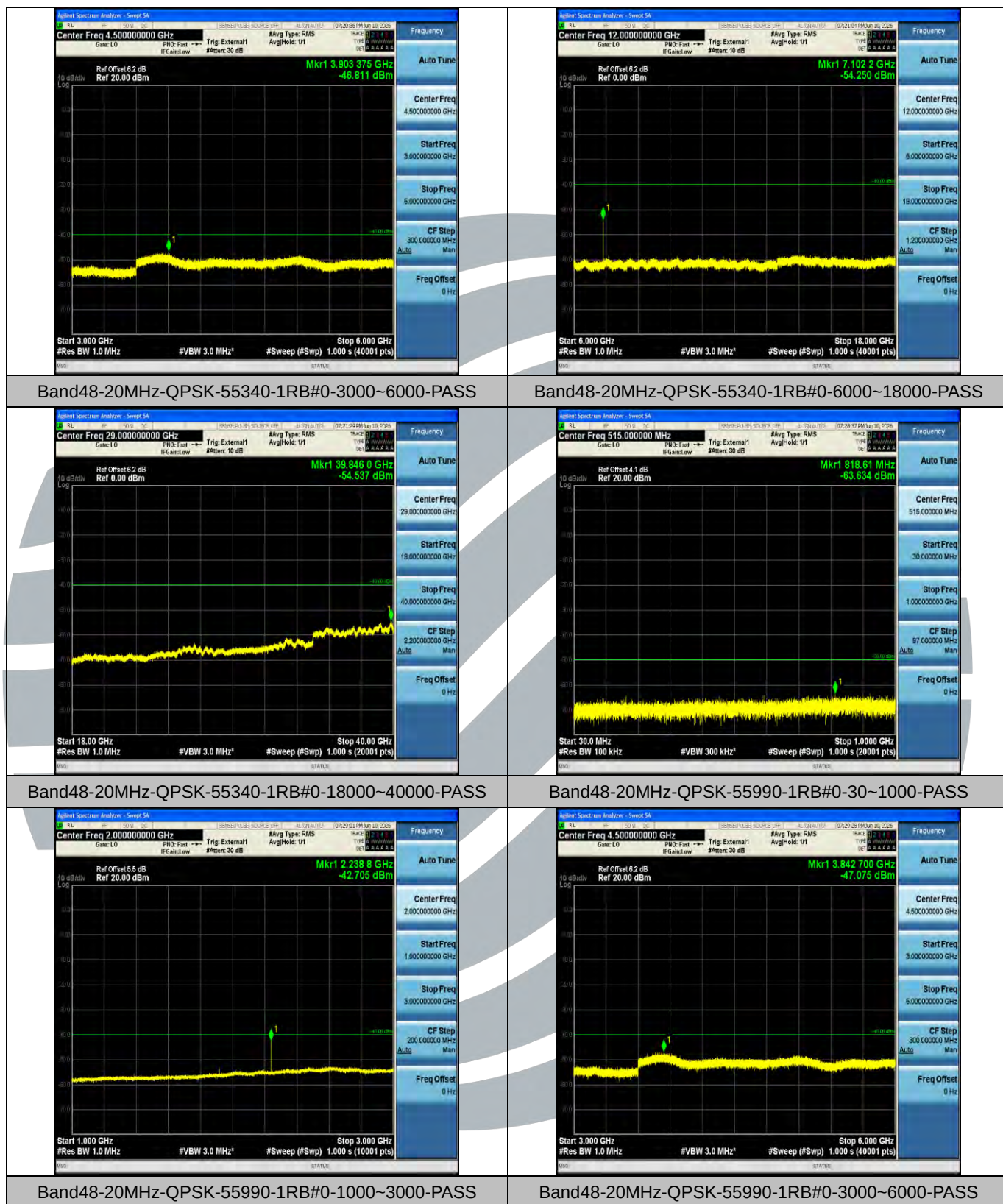
A.4 CONDUCTED SPURIOUS EMISSION

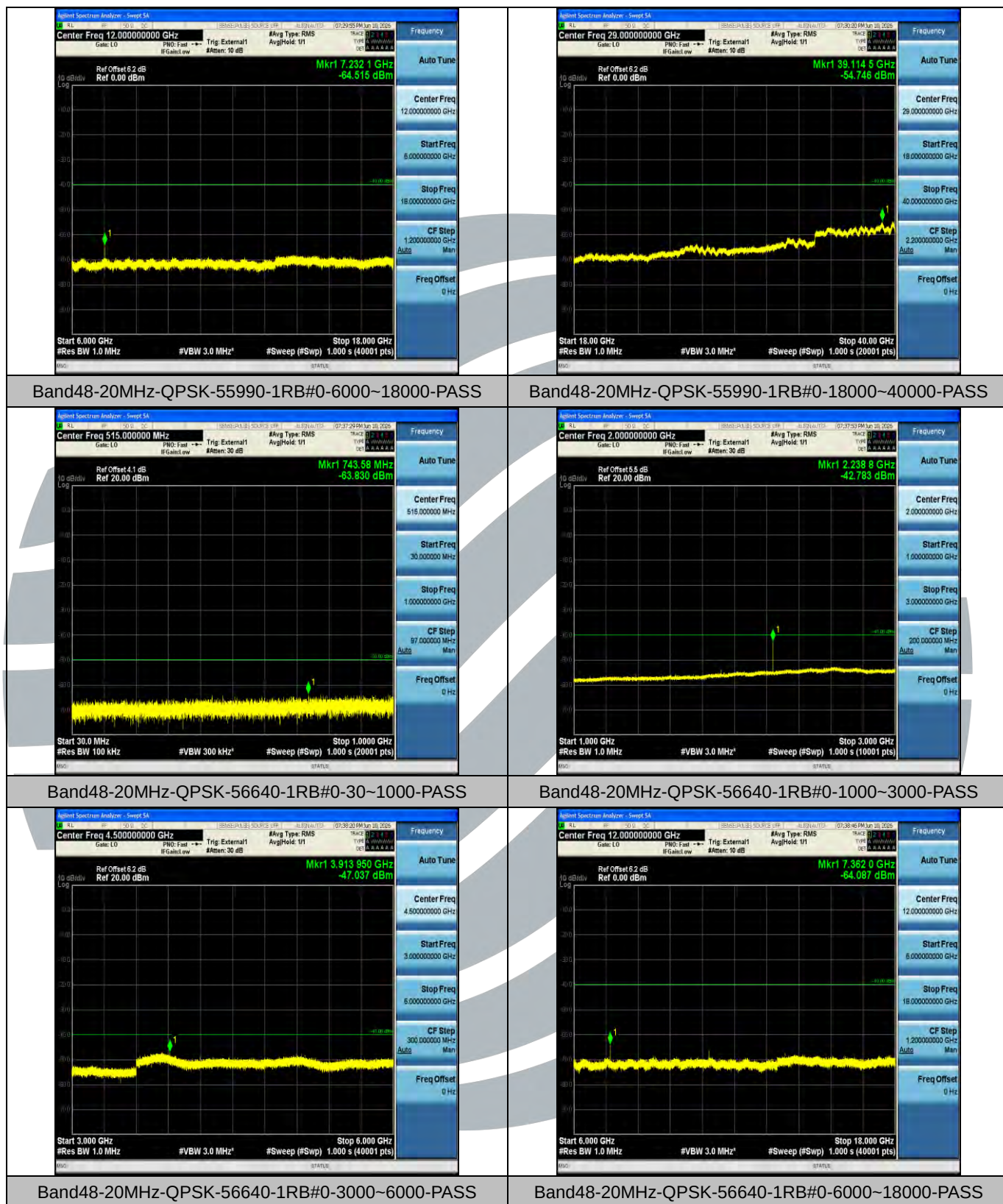
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range (MHz)	Result (dBm)	Verdict
Band48	20MHz	QPSK	55340	1RB#0	30~1000	-63.19	PASS
Band48	20MHz	QPSK	55340	1RB#0	1000~3000	-42.62	PASS
Band48	20MHz	QPSK	55340	1RB#0	3000~6000	-46.81	PASS
Band48	20MHz	QPSK	55340	1RB#0	6000~18000	-54.25	PASS
Band48	20MHz	QPSK	55340	1RB#0	18000~40000	-54.54	PASS
Band48	20MHz	QPSK	55990	1RB#0	30~1000	-63.63	PASS
Band48	20MHz	QPSK	55990	1RB#0	1000~3000	-42.71	PASS
Band48	20MHz	QPSK	55990	1RB#0	3000~6000	-47.08	PASS
Band48	20MHz	QPSK	55990	1RB#0	6000~18000	-64.52	PASS
Band48	20MHz	QPSK	55990	1RB#0	18000~40000	-54.75	PASS
Band48	20MHz	QPSK	56640	1RB#0	30~1000	-63.83	PASS
Band48	20MHz	QPSK	56640	1RB#0	1000~3000	-42.78	PASS
Band48	20MHz	QPSK	56640	1RB#0	3000~6000	-47.04	PASS
Band48	20MHz	QPSK	56640	1RB#0	6000~18000	-64.09	PASS
Band48	20MHz	QPSK	56640	1RB#0	18000~40000	-54.39	PASS

Test Graphs









A.5 FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	VN	NT	-2670.00	-0.736552	±NA	PASS
Band48	20MHz	QPSK	55990	100RB#0	VL	NT	-2980.00	-0.822069	±NA	PASS
Band48	20MHz	QPSK	55990	100RB#0	VH	NT	-2870.00	-0.791724	±NA	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	NV	-30	-2900.00	-0.800000	±NA	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-20	-2720.00	-0.750345	±NA	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-10	-2340.00	-0.645517	±NA	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	0	-2370.00	-0.653793	±NA	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	10	-3150.00	-0.868966	±NA	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	20	-2680.00	-0.739310	±NA	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	30	-2820.00	-0.777931	±NA	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	40	-2520.00	-0.695172	±NA	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	50	-2630.00	-0.725517	±NA	PASS