

Appendix-A LTE Band 41

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.95	27.95	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.64	27.64	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.72	27.72	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.83	26.83	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.03	27.03	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.86	26.86	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.93	26.93	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.83	25.83	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.91	27.91	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.68	27.68	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.8	27.8	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.9	26.9	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	23.12	27.12	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.82	26.82	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.06	27.06	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.94	25.94	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	24.21	28.21	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.81	27.81	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.82	27.82	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.82	26.82	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	23.18	27.18	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.85	26.85	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.87	26.87	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.91	25.91	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	24.32	28.32	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.73	27.73	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.65	27.65	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.73	26.73	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	23.19	27.19	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.76	26.76	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.7	26.7	33.00	PASS
Band41	10MHz	16QAM	39700	27RB#0	22.05	26.05	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	24.11	28.11	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.75	27.75	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.82	27.82	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.88	26.88	33.00	PASS

Band41	10MHz	16QAM	40620	1RB#0	23.11	27.11	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.87	26.87	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.98	26.98	33.00	PASS
Band41	10MHz	16QAM	40620	27RB#0	22.16	26.16	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	24.24	28.24	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.86	27.86	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.8	27.8	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.88	26.88	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.13	27.13	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.89	26.89	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.84	26.84	33.00	PASS
Band41	10MHz	16QAM	41540	27RB#0	22.32	26.32	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	24.12	28.12	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.68	27.68	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.4	27.4	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.68	26.68	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	23.02	27.02	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.72	26.72	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.44	26.44	33.00	PASS
Band41	15MHz	16QAM	39725	27RB#0	22.37	26.37	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.9	27.9	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.76	27.76	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.56	27.56	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.88	26.88	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.89	26.89	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.91	26.91	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.7	26.7	33.00	PASS
Band41	15MHz	16QAM	40620	27RB#0	22.23	26.23	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.95	27.95	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.87	27.87	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.5	27.5	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.81	26.81	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.78	26.78	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.9	26.9	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.53	26.53	33.00	PASS
Band41	15MHz	16QAM	41515	27RB#0	22.25	26.25	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	24.38	28.38	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.58	27.58	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.44	27.44	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.58	26.58	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	23.23	27.23	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.57	26.57	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.43	26.43	33.00	PASS
Band41	20MHz	16QAM	39750	27RB#0	22.28	26.28	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	24.15	28.15	33.00	PASS

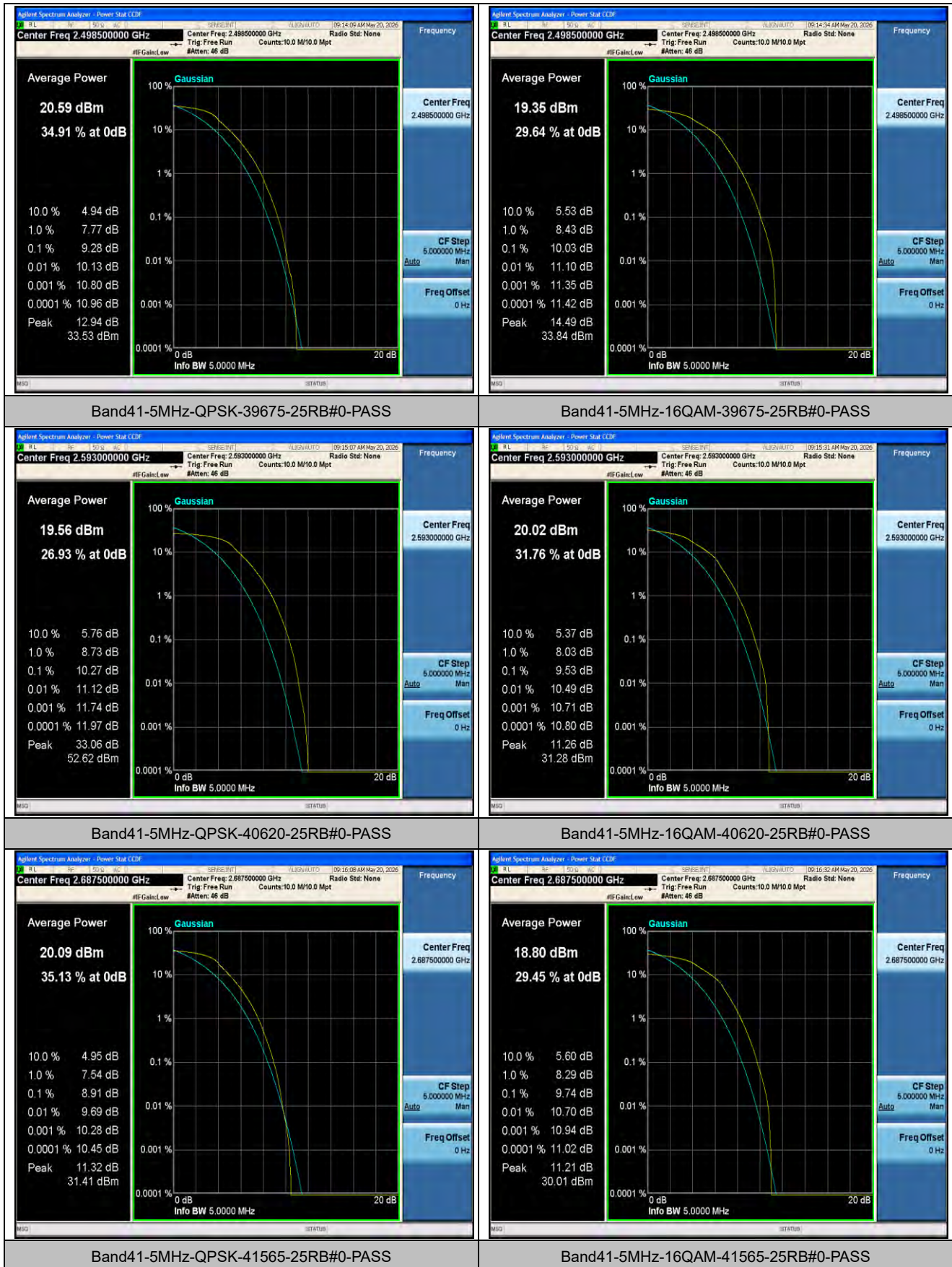
Band41	20MHz	QPSK	40620	1RB#49	23.81	27.81	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.59	27.59	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.9	26.9	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	23.12	27.12	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.95	26.95	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.75	26.75	33.00	PASS
Band41	20MHz	16QAM	40620	27RB#0	22.19	26.19	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.92	27.92	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.69	27.69	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.33	27.33	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.64	26.64	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.76	26.76	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.72	26.72	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.38	26.38	33.00	PASS
Band41	20MHz	16QAM	41490	27RB#0	21.99	25.99	33.00	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	9.28	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	10.03	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	10.27	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.53	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	8.91	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	9.74	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.39	13	PASS
Band41	10MHz	16QAM	39700	27RB#0	9.96	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.74	13	PASS
Band41	10MHz	16QAM	40620	27RB#0	12.19	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.88	13	PASS
Band41	10MHz	16QAM	41540	27RB#0	9.65	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	8.93	13	PASS
Band41	15MHz	16QAM	39725	27RB#0	10.16	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	9.01	13	PASS
Band41	15MHz	16QAM	40620	27RB#0	10.22	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	8.52	13	PASS
Band41	15MHz	16QAM	41515	27RB#0	9.56	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	9.60	13	PASS
Band41	20MHz	16QAM	39750	27RB#0	10.88	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.93	13	PASS
Band41	20MHz	16QAM	40620	27RB#0	9.58	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.83	13	PASS
Band41	20MHz	16QAM	41490	27RB#0	9.76	13	PASS

Test Graphs





Band41-10MHz-QPSK-39700-50RB#0-PASS



Band41-10MHz-16QAM-39700-27RB#0-PASS



Band41-10MHz-QPSK-40620-50RB#0-PASS



Band41-10MHz-16QAM-40620-27RB#0-PASS



Band41-10MHz-QPSK-41540-50RB#0-PASS



Band41-10MHz-16QAM-41540-27RB#0-PASS



Band41-15MHz-QPSK-39725-75RB#0-PASS



Band41-15MHz-16QAM-39725-27RB#0-PASS



Band41-15MHz-QPSK-40620-75RB#0-PASS



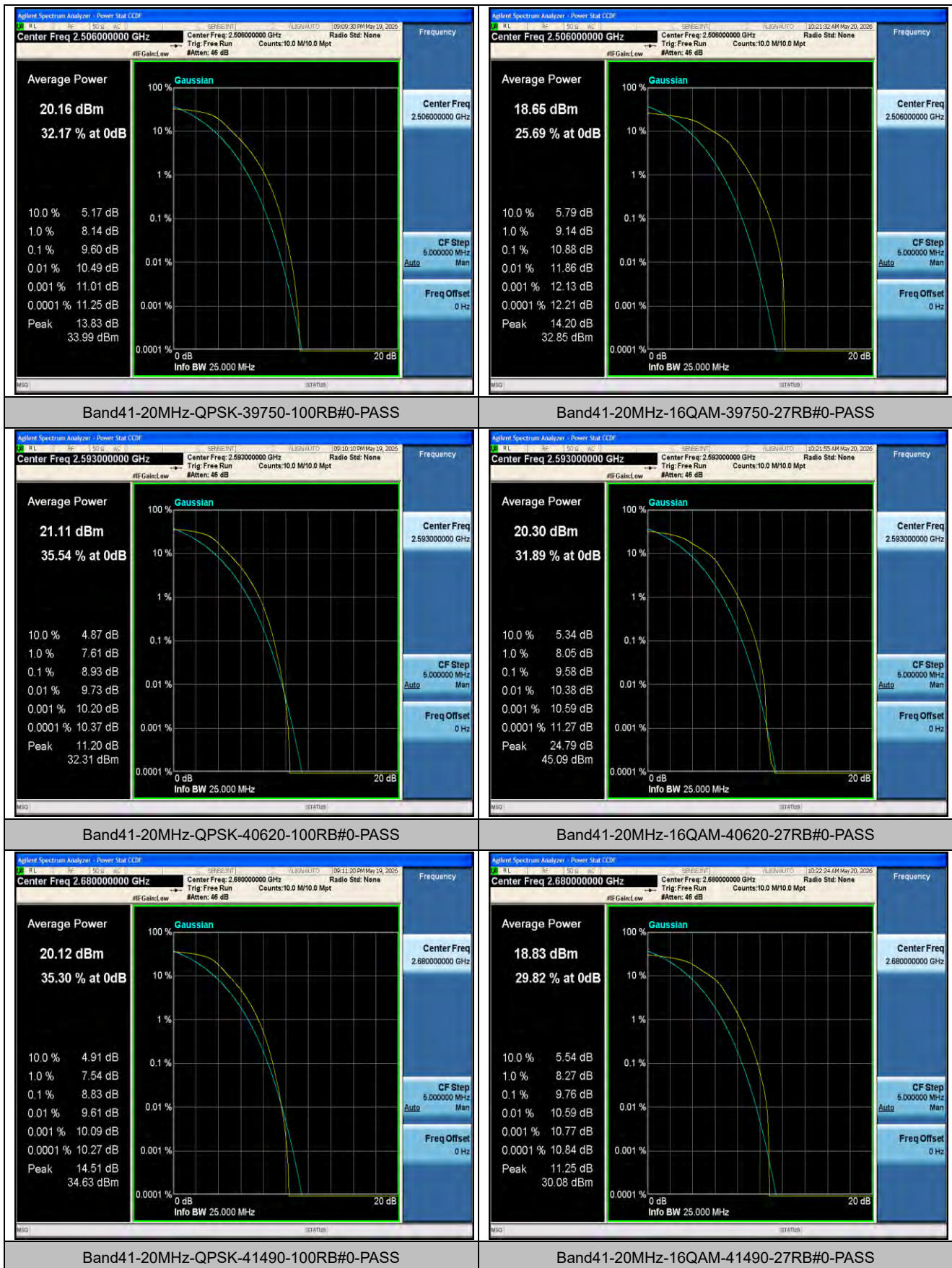
Band41-15MHz-16QAM-40620-27RB#0-PASS



Band41-15MHz-QPSK-41515-75RB#0-PASS



Band41-15MHz-16QAM-41515-27RB#0-PASS



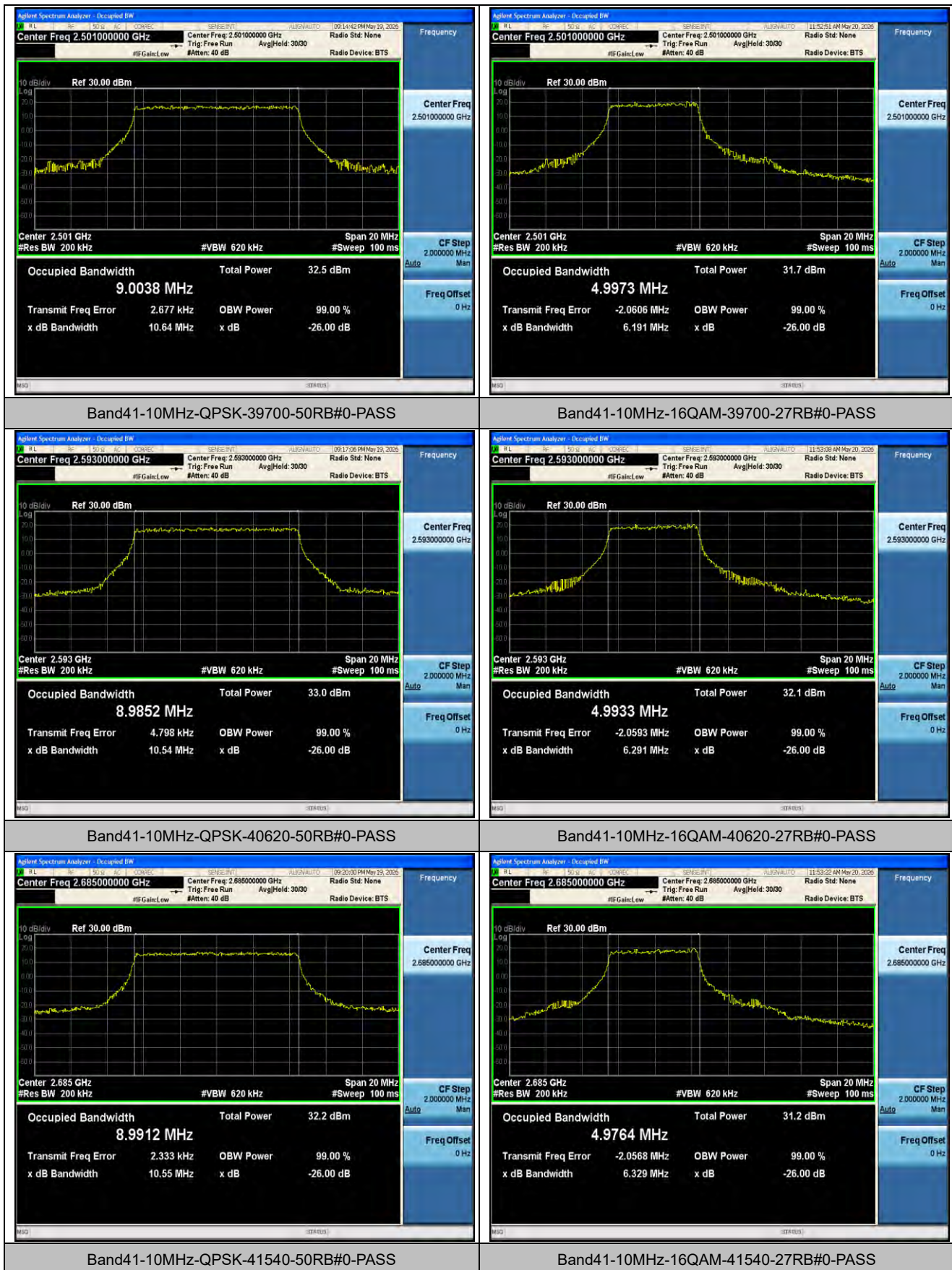
26dB Bandwidth and Occupied Bandwidth

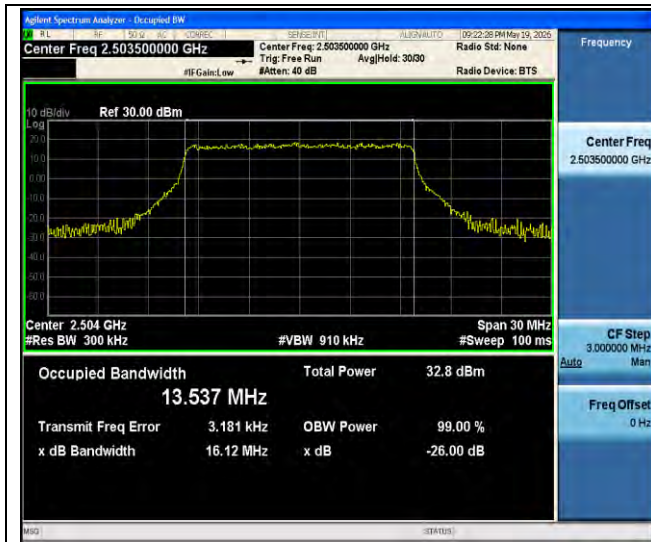
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5147	5.462	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5200	5.576	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5146	5.441	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.5163	5.584	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5204	5.608	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.5229	5.662	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.0038	10.64	PASS
Band41	10MHz	16QAM	39700	27RB#0	4.9973	6.191	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9852	10.54	PASS
Band41	10MHz	16QAM	40620	27RB#0	4.9933	6.291	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9912	10.55	PASS
Band41	10MHz	16QAM	41540	27RB#0	4.9764	6.329	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.537	16.12	PASS
Band41	15MHz	16QAM	39725	27RB#0	5.4231	7.675	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.505	16.01	PASS
Band41	15MHz	16QAM	40620	27RB#0	5.4291	7.751	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.520	15.88	PASS
Band41	15MHz	16QAM	41515	27RB#0	5.3812	7.737	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.961	20.31	PASS
Band41	20MHz	16QAM	39750	27RB#0	5.3799	7.570	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.955	20.26	PASS
Band41	20MHz	16QAM	40620	27RB#0	5.3867	7.225	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.984	20.37	PASS
Band41	20MHz	16QAM	41490	27RB#0	5.3512	7.380	PASS

Test Graphs







Band41-15MHz-QPSK-39725-75RB#0-PASS



Band41-15MHz-16QAM-39725-27RB#0-PASS



Band41-15MHz-QPSK-40620-75RB#0-PASS



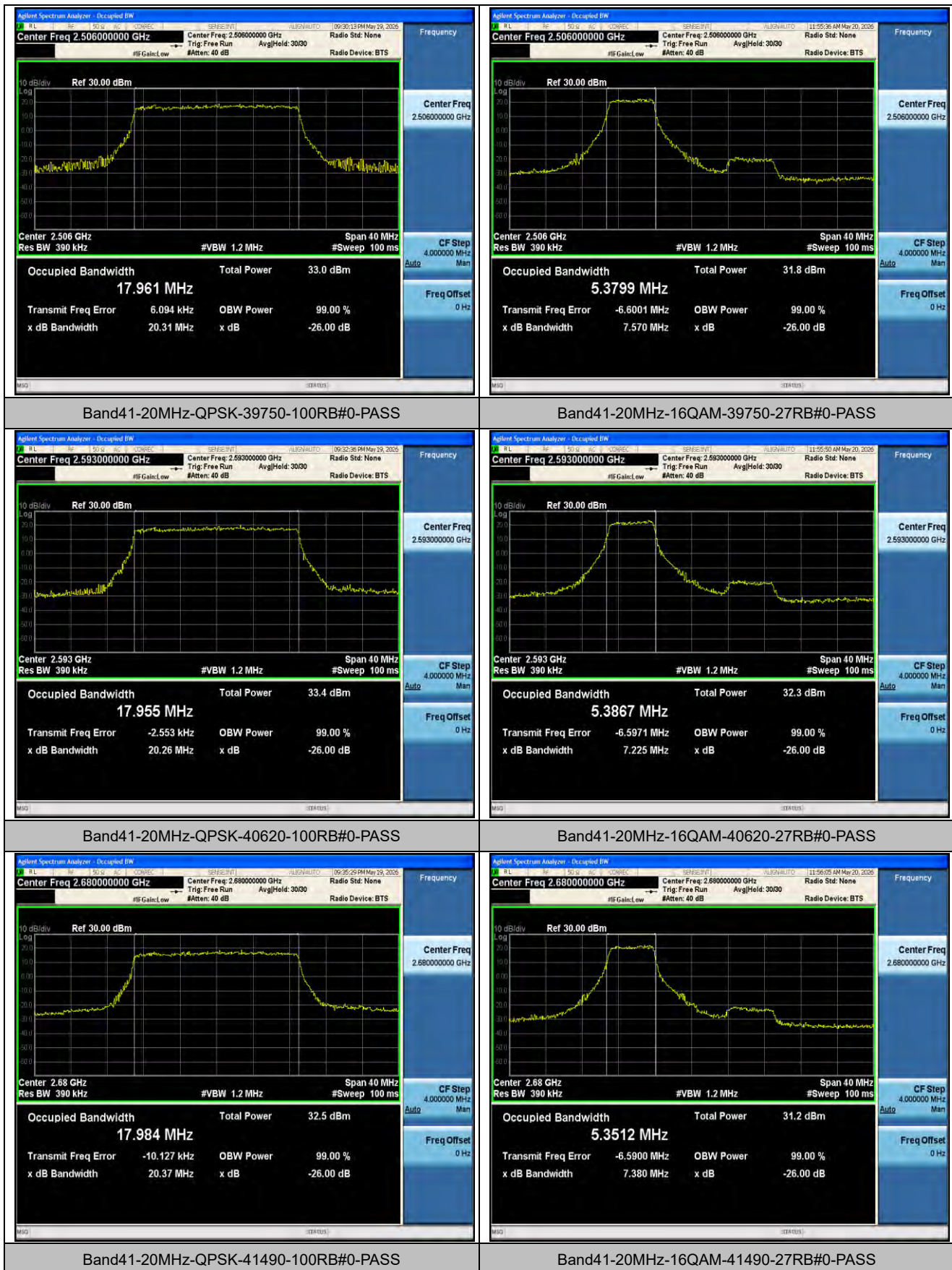
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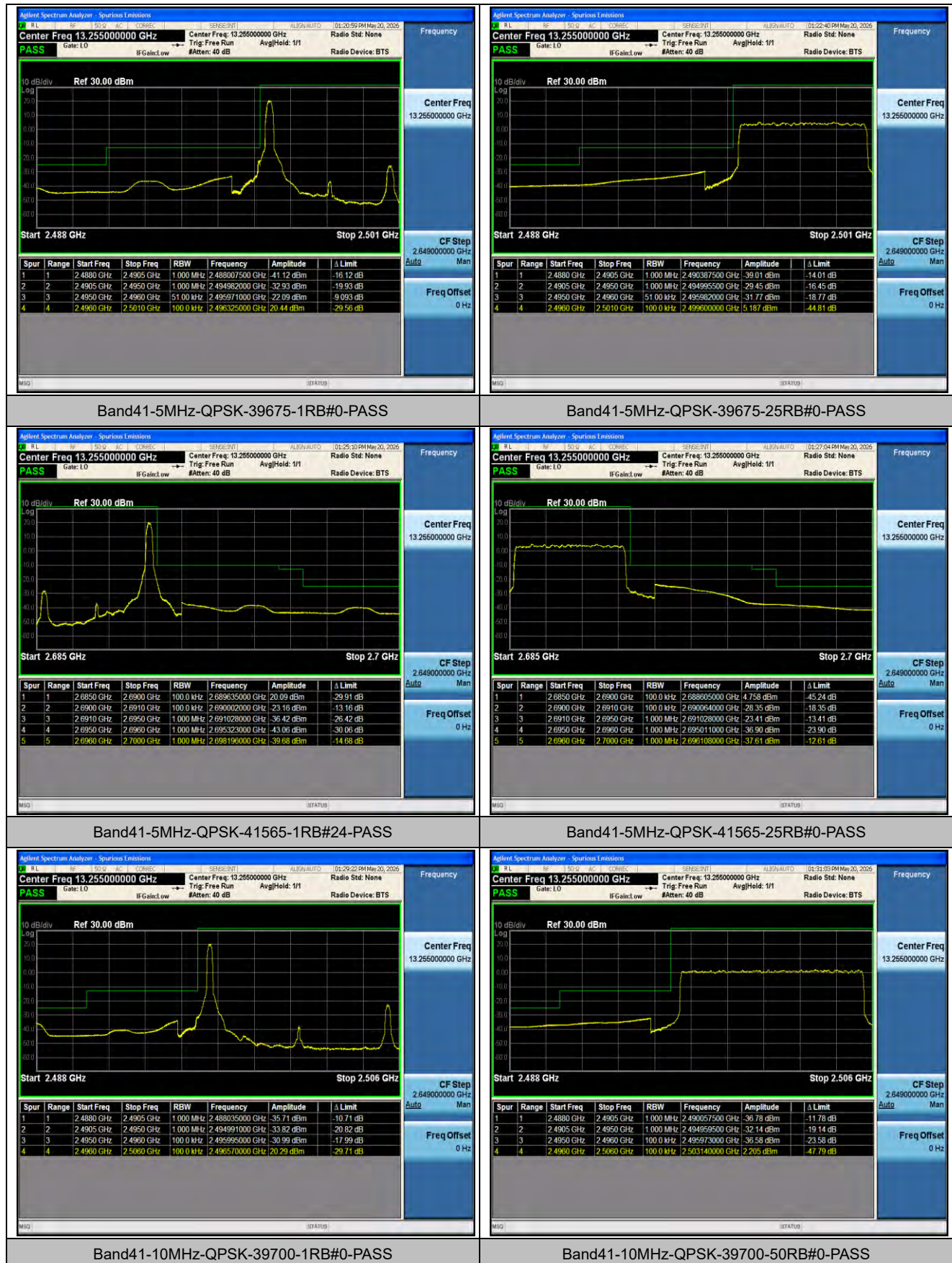


Band41-15MHz-16QAM-41515-27RB#0-PASS



Band Edge

Test Graphs

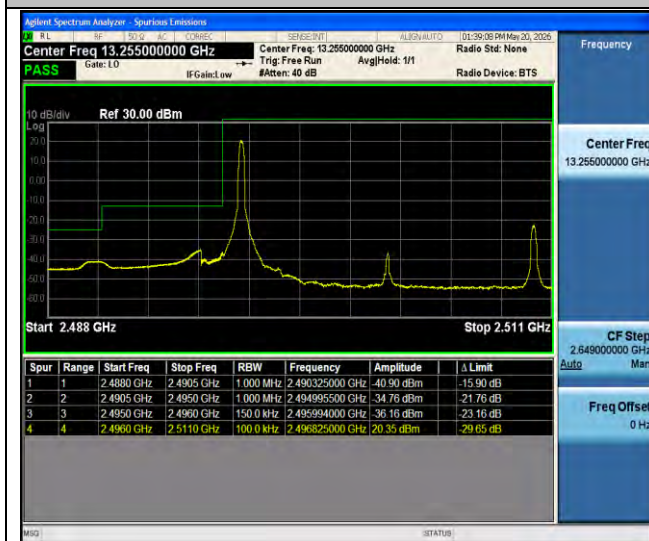




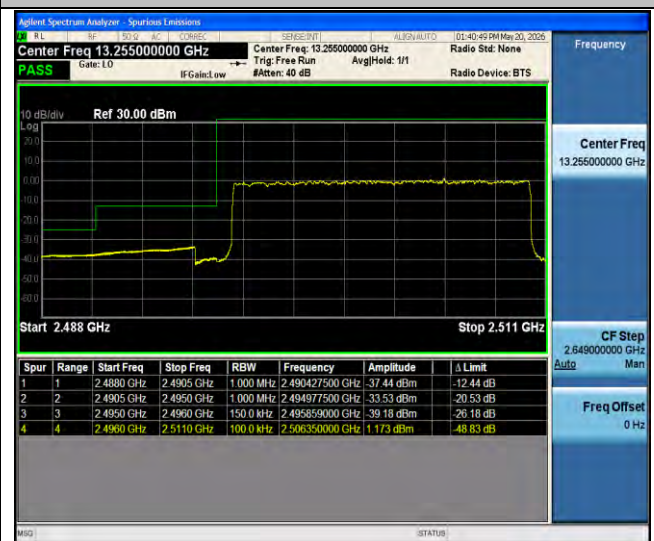
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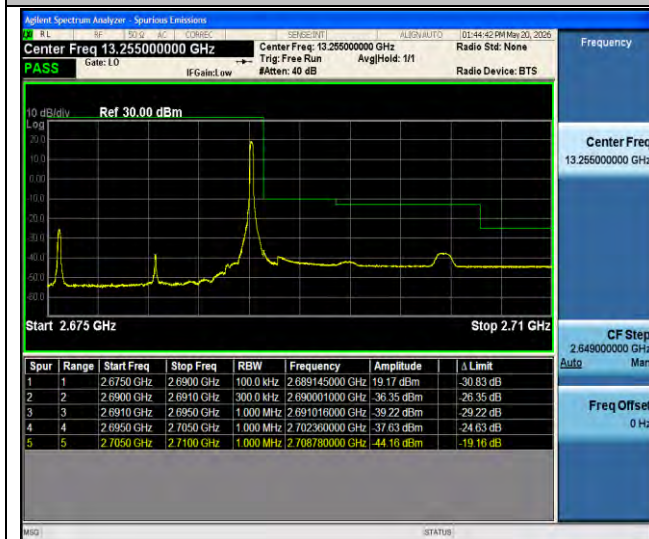
Band41-10MHz-QPSK-41540-50RB#0-PASS



Band41-15MHz-QPSK-39725-1RB#0-PASS



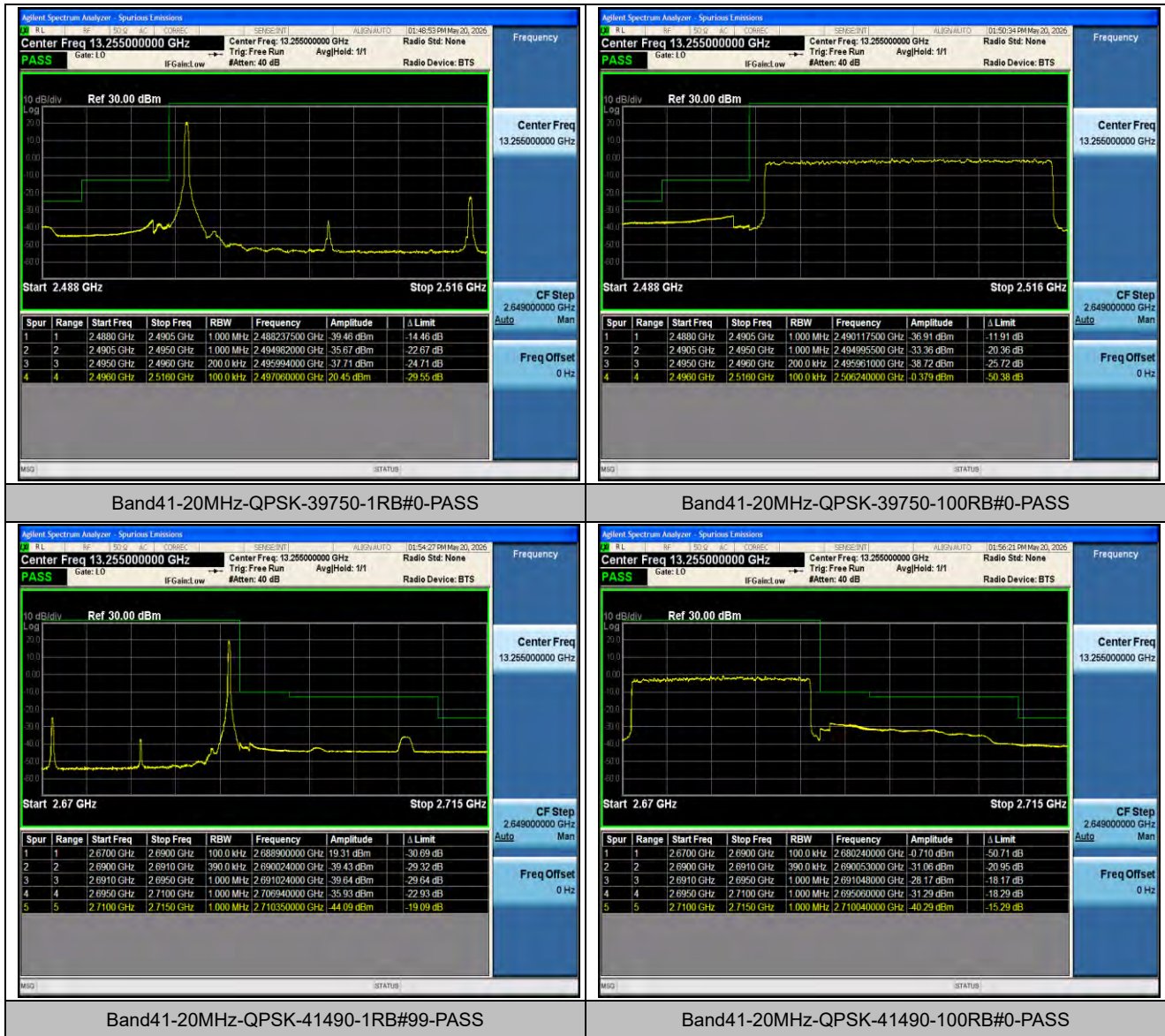
Band41-15MHz-QPSK-39725-75RB#0-PASS



Band41-15MHz-QPSK-41515-1RB#74-PASS

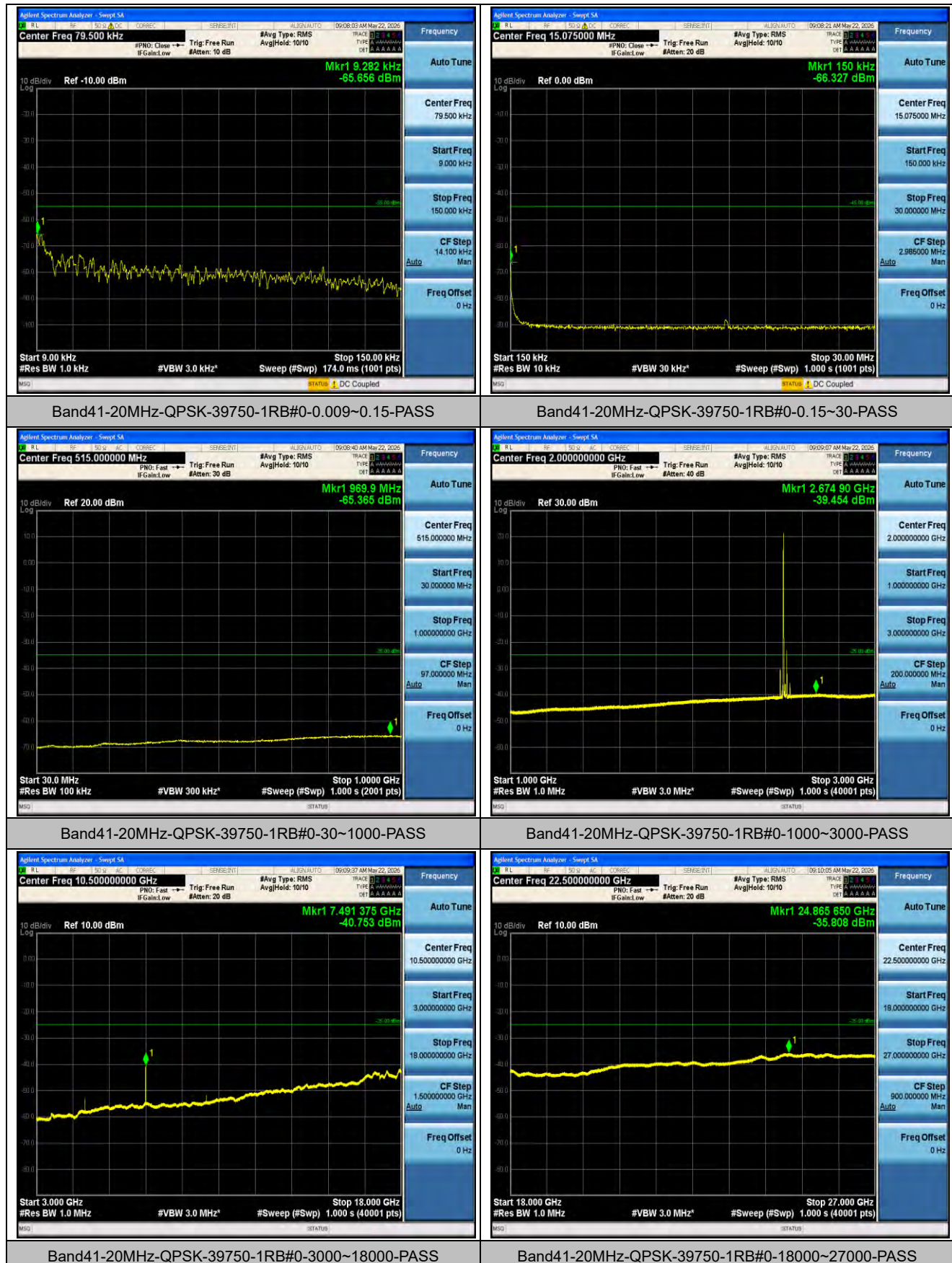


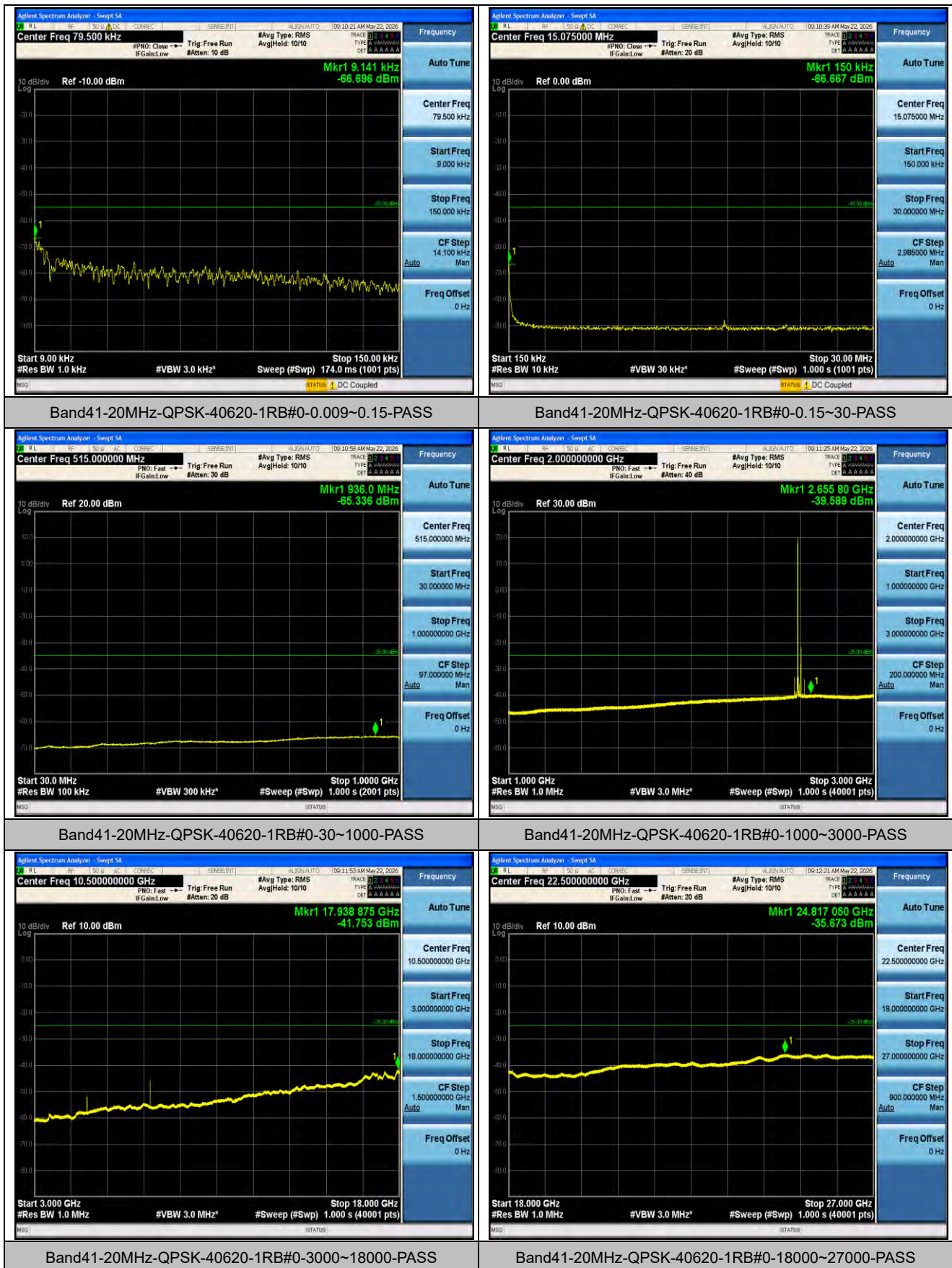
Band41-15MHz-QPSK-41515-75RB#0-PASS

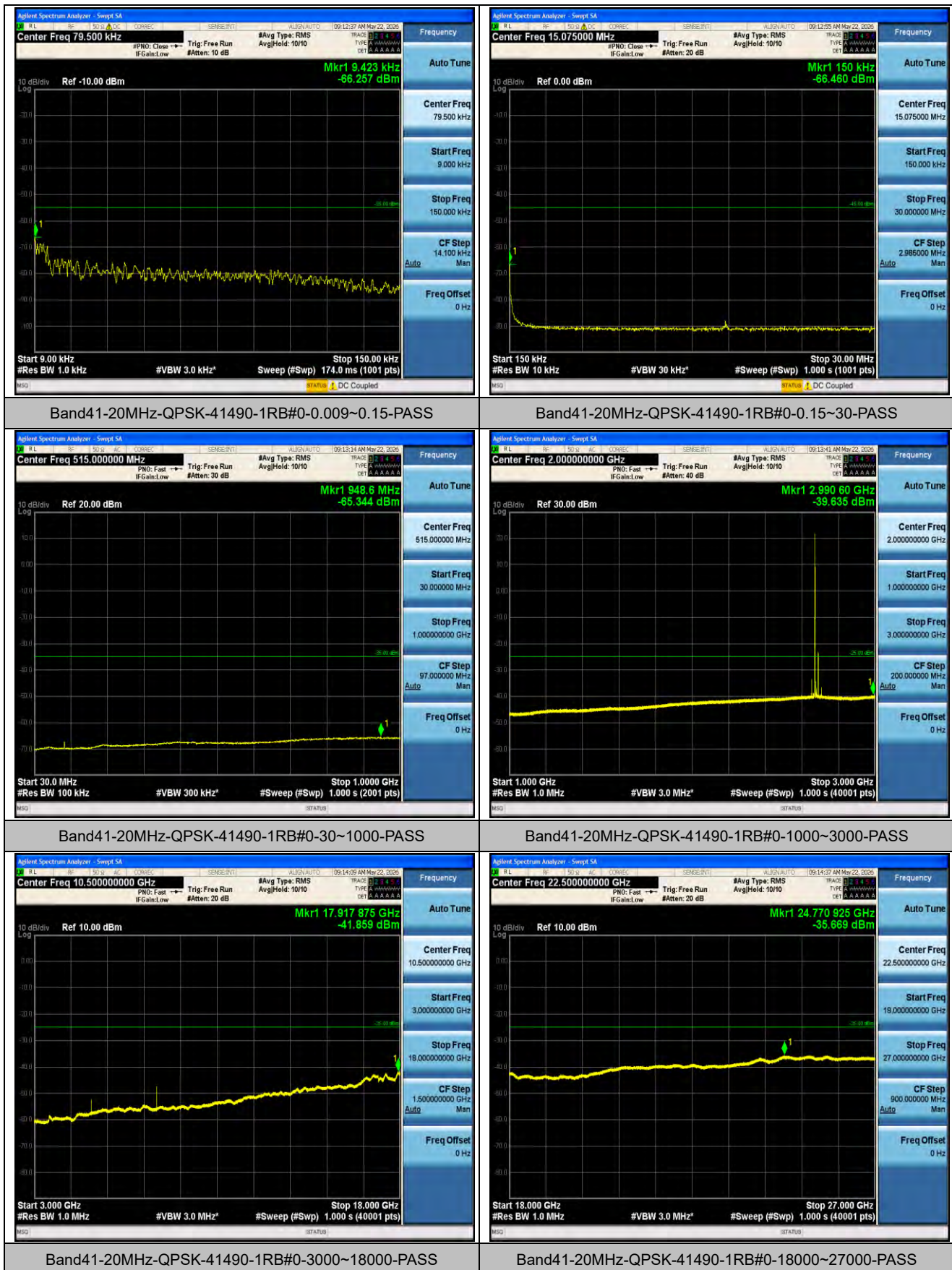


Conducted Spurious Emission

Test Graphs







Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-2.40	-0.000926	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-3.90	-0.001504	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	1.10	0.000424	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-0.40	-0.000154	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-1.50	-0.000578	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-1.90	-0.000733	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	0.60	0.000231	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-0.70	-0.000270	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	2.80	0.001080	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-0.30	-0.000116	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	0.80	0.000309	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	1.00	0.000386	PASS

~The End~