

Appendix-C LTE Band 41

Effective (Isotropic) Radiated Power Output Data

Test Result

Ant8:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	25.87	23.17	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	25.89	23.19	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	25.99	23.29	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	24.94	22.24	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	24.83	22.13	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	25.11	22.41	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	25.02	22.32	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	24	21.3	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#0	23.92	21.22	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#12	24.31	21.61	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#24	23.97	21.27	33.00	PASS
Band41	5MHz	64QAM	39675	25RB#0	23.02	20.32	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	26.32	23.62	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	26.36	23.66	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	26.2	23.5	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	25.3	22.6	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	25.19	22.49	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	25.4	22.7	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	25.55	22.85	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	24.31	21.61	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#0	23.55	20.85	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#12	23.7	21	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#24	23.36	20.66	33.00	PASS
Band41	5MHz	64QAM	40620	25RB#0	23.09	20.39	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	26.21	23.51	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	26.16	23.46	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	26.09	23.39	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	25.12	22.42	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	25.06	22.36	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	25.18	22.48	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	24.95	22.25	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	24.16	21.46	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#0	24.38	21.68	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#12	24.17	21.47	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#24	24.25	21.55	33.00	PASS

Band41	5MHz	64QAM	41565	25RB#0	23.29	20.59	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	25.95	23.25	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	25.92	23.22	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	26	23.3	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	25.03	22.33	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	24.95	22.25	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	25.17	22.47	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	25.19	22.49	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	24.02	21.32	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#0	24.46	21.76	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#24	24.61	21.91	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#49	24.33	21.63	33.00	PASS
Band41	10MHz	64QAM	39700	50RB#0	23.28	20.58	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	26.27	23.57	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	26.19	23.49	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	26.12	23.42	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	25.27	22.57	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	25.02	22.32	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	25.42	22.72	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	25.51	22.81	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	24.33	21.63	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#0	24.68	21.98	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#24	24.45	21.75	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#49	24.51	21.81	33.00	PASS
Band41	10MHz	64QAM	40620	50RB#0	23.13	20.43	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	26.14	23.44	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	26.02	23.32	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	25.98	23.28	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	25.05	22.35	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	25.05	22.35	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	25.05	22.35	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	25.13	22.43	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	24.04	21.34	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#0	24.07	21.37	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#24	24.12	21.42	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#49	23.93	21.23	33.00	PASS
Band41	10MHz	64QAM	41540	50RB#0	23.29	20.59	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	25.79	23.09	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	25.92	23.22	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	25.99	23.29	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	24.98	22.28	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	25.02	22.32	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	25.27	22.57	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	25.2	22.5	33.00	PASS

Band41	15MHz	16QAM	39725	75RB#0	24.18	21.48	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#0	24.15	21.45	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#38	24.43	21.73	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#74	24.34	21.64	33.00	PASS
Band41	15MHz	64QAM	39725	75RB#0	23.46	20.76	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	26.25	23.55	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	26.17	23.47	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	26.13	23.43	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	25.14	22.44	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	25.24	22.54	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	25.1	22.4	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	25.62	22.92	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	24.27	21.57	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#0	24.1	21.4	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#38	24.23	21.53	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#74	23.9	21.2	33.00	PASS
Band41	15MHz	64QAM	40620	75RB#0	23.26	20.56	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	26.08	23.38	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	25.95	23.25	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	25.97	23.27	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	25.06	22.36	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	24.83	22.13	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	25.14	22.44	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	24.86	22.16	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	23.99	21.29	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#0	24.13	21.43	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#38	24.29	21.59	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#74	24.21	21.51	33.00	PASS
Band41	15MHz	64QAM	41515	75RB#0	23	20.3	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	26.06	23.36	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	25.97	23.27	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	26.03	23.33	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	25.02	22.32	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	24.84	22.14	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	25.52	22.82	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	25.02	22.32	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	24.14	21.44	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#0	24.18	21.48	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#49	24.33	21.63	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#99	24.52	21.82	33.00	PASS
Band41	20MHz	64QAM	39750	100RB#0	23.54	20.84	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	26.12	23.42	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	26.16	23.46	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	26.1	23.4	33.00	PASS

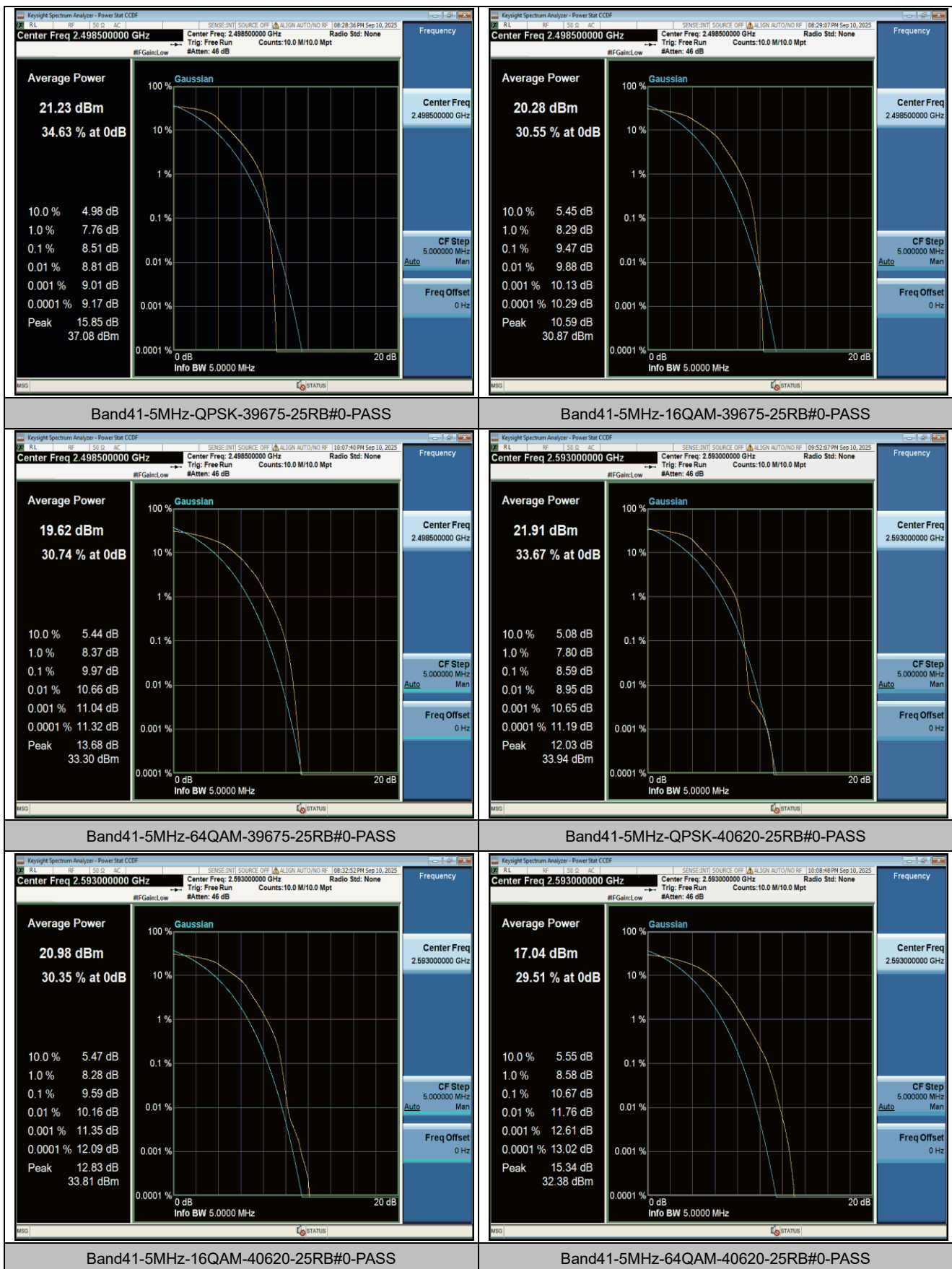
Band41	20MHz	QPSK	40620	100RB#0	25.24	22.54	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	25.15	22.45	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	25.34	22.64	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	24.81	22.11	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	24.24	21.54	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#0	24.3	21.6	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#49	24.27	21.57	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#99	24.14	21.44	33.00	PASS
Band41	20MHz	64QAM	40620	100RB#0	23.27	20.57	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	25.89	23.19	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	25.76	23.06	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	25.83	23.13	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	24.89	22.19	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	25.08	22.38	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	25.06	22.36	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	24.77	22.07	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	23.87	21.17	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#0	24.14	21.44	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#49	24.1	21.4	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#99	24.24	21.54	33.00	PASS
Band41	20MHz	64QAM	41490	100RB#0	23.01	20.31	33.00	PASS

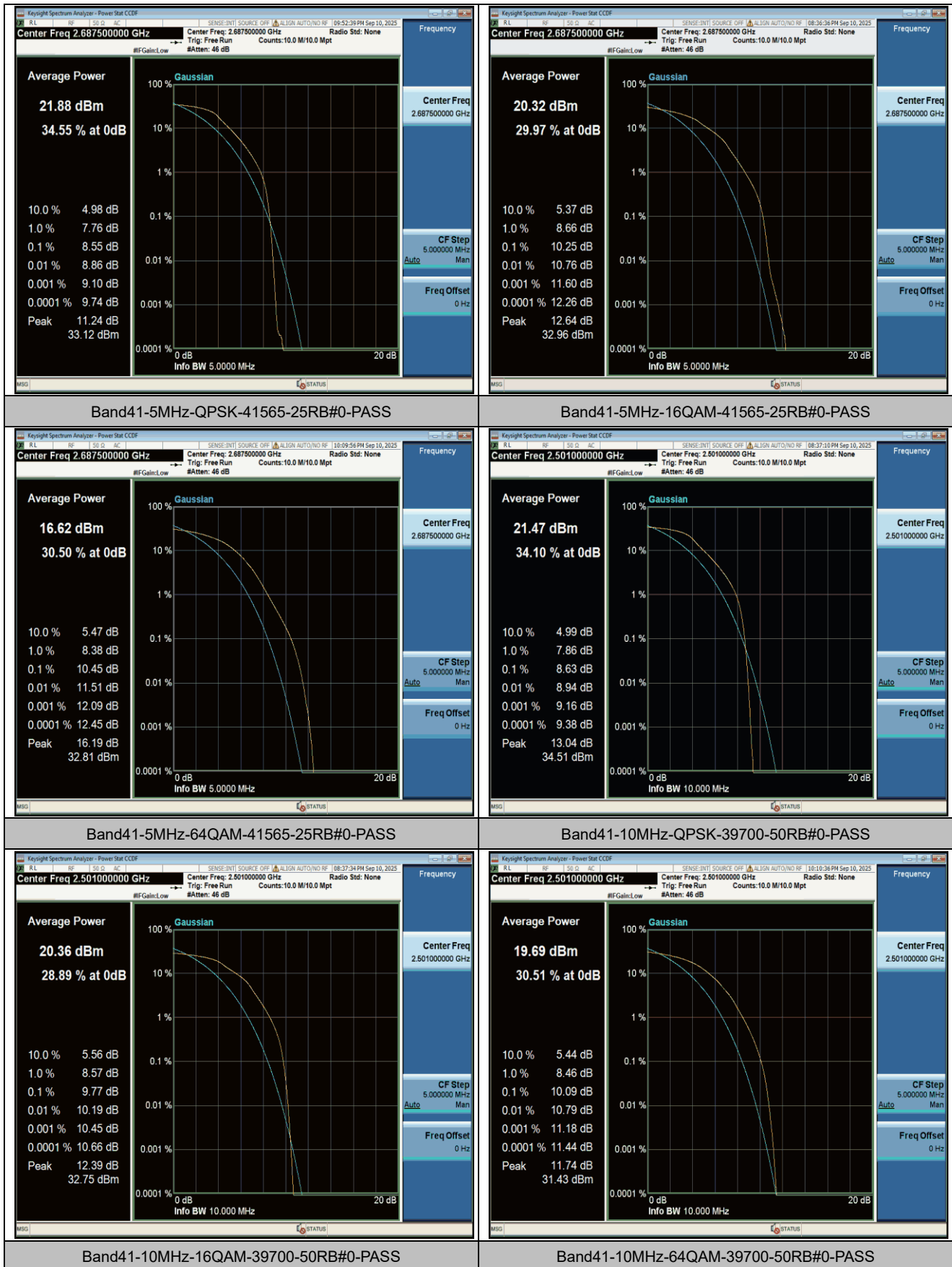
Peak-to-Average Ratio(CCDF)

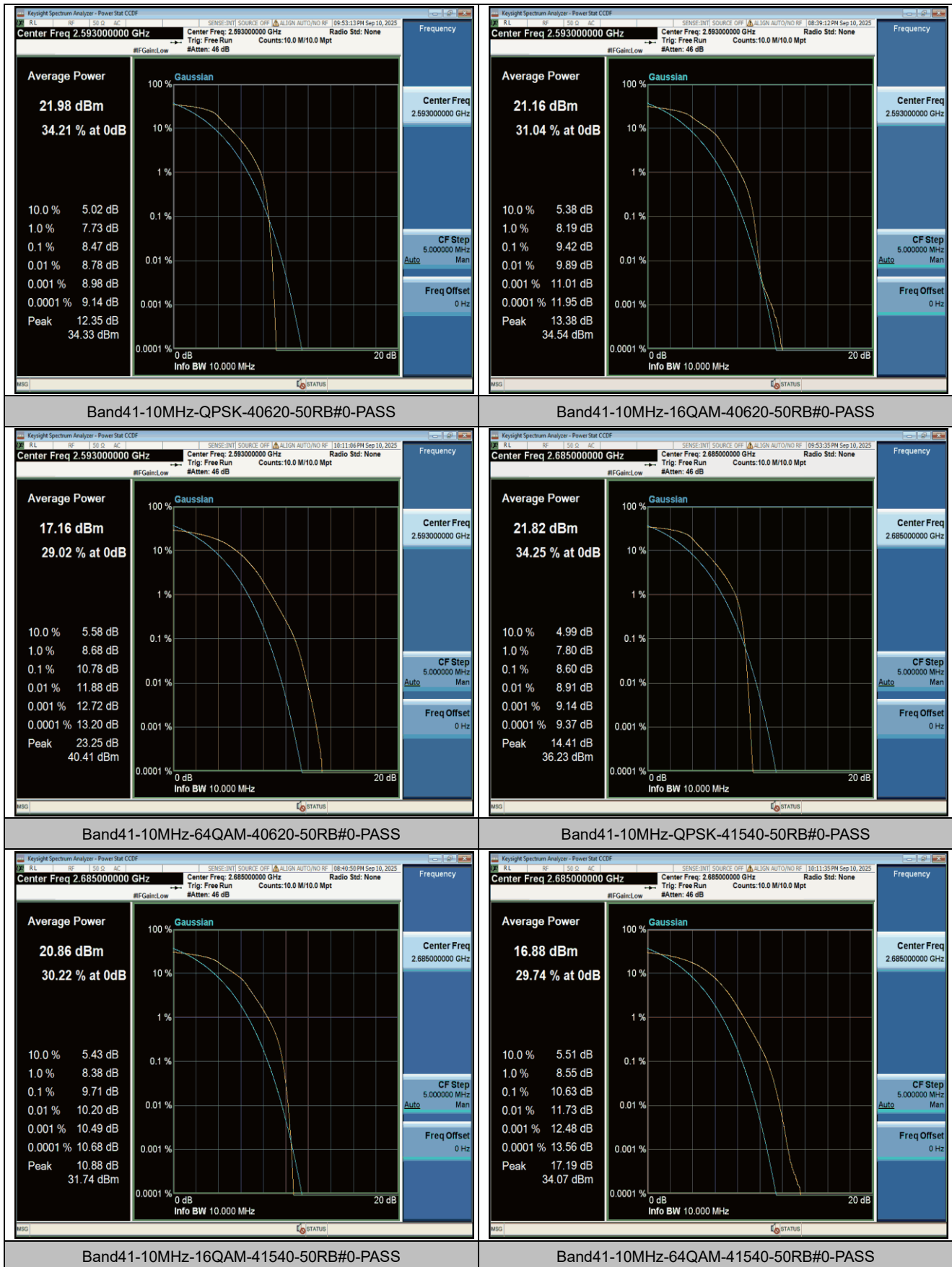
Test Result

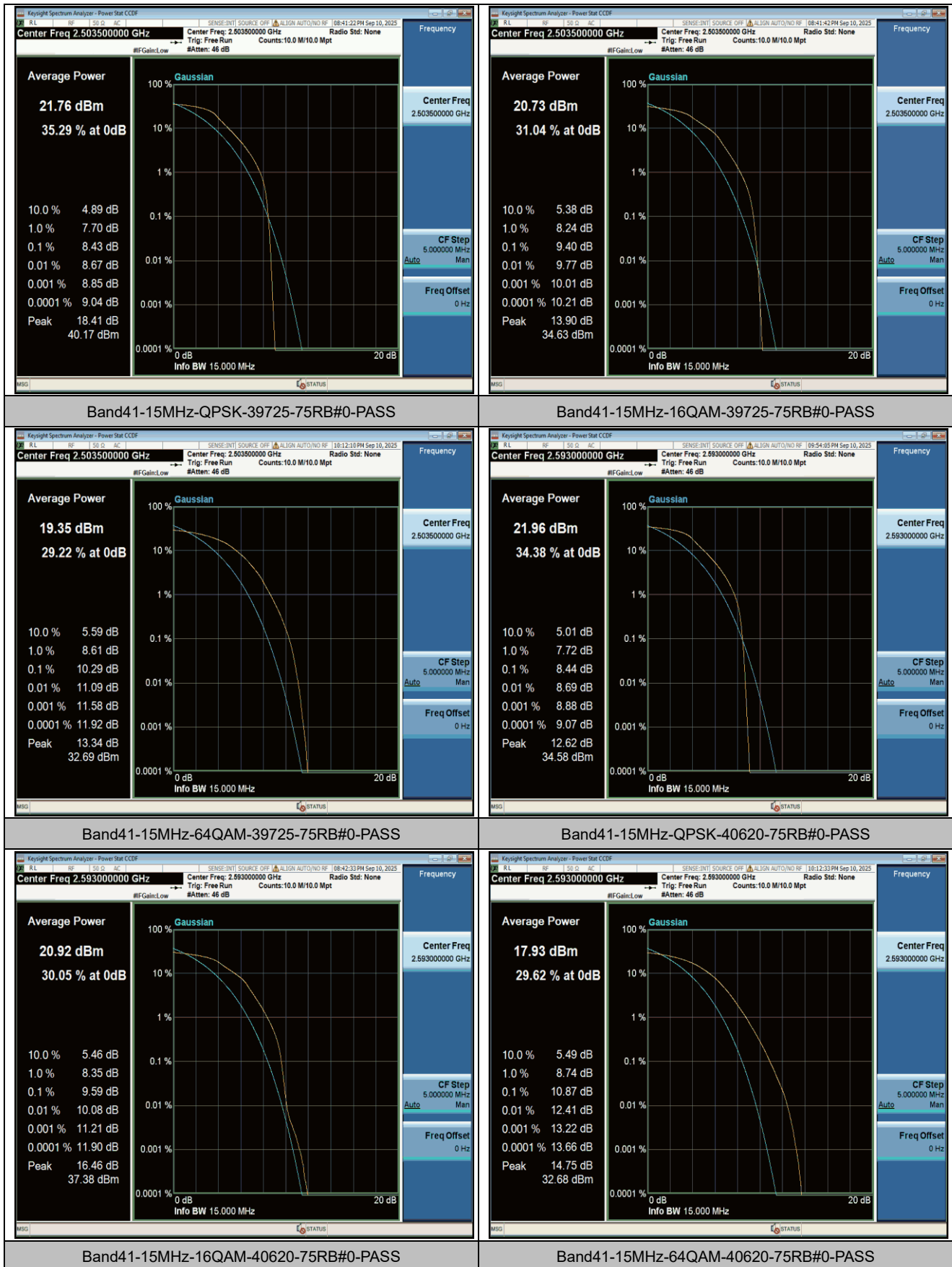
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	8.51	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.47	13	PASS
Band41	5MHz	64QAM	39675	25RB#0	9.97	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	8.59	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.59	13	PASS
Band41	5MHz	64QAM	40620	25RB#0	10.67	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	8.55	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	10.25	13	PASS
Band41	5MHz	64QAM	41565	25RB#0	10.45	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.63	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.77	13	PASS
Band41	10MHz	64QAM	39700	50RB#0	10.09	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.47	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.42	13	PASS
Band41	10MHz	64QAM	40620	50RB#0	10.78	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.60	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.71	13	PASS
Band41	10MHz	64QAM	41540	50RB#0	10.63	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	8.43	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	9.40	13	PASS
Band41	15MHz	64QAM	39725	75RB#0	10.29	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	8.44	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	9.59	13	PASS
Band41	15MHz	64QAM	40620	75RB#0	10.87	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	8.66	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	9.56	13	PASS
Band41	15MHz	64QAM	41515	75RB#0	10.33	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	8.04	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.43	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	10.01	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.70	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.15	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	10.74	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.53	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.23	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	10.48	13	PASS

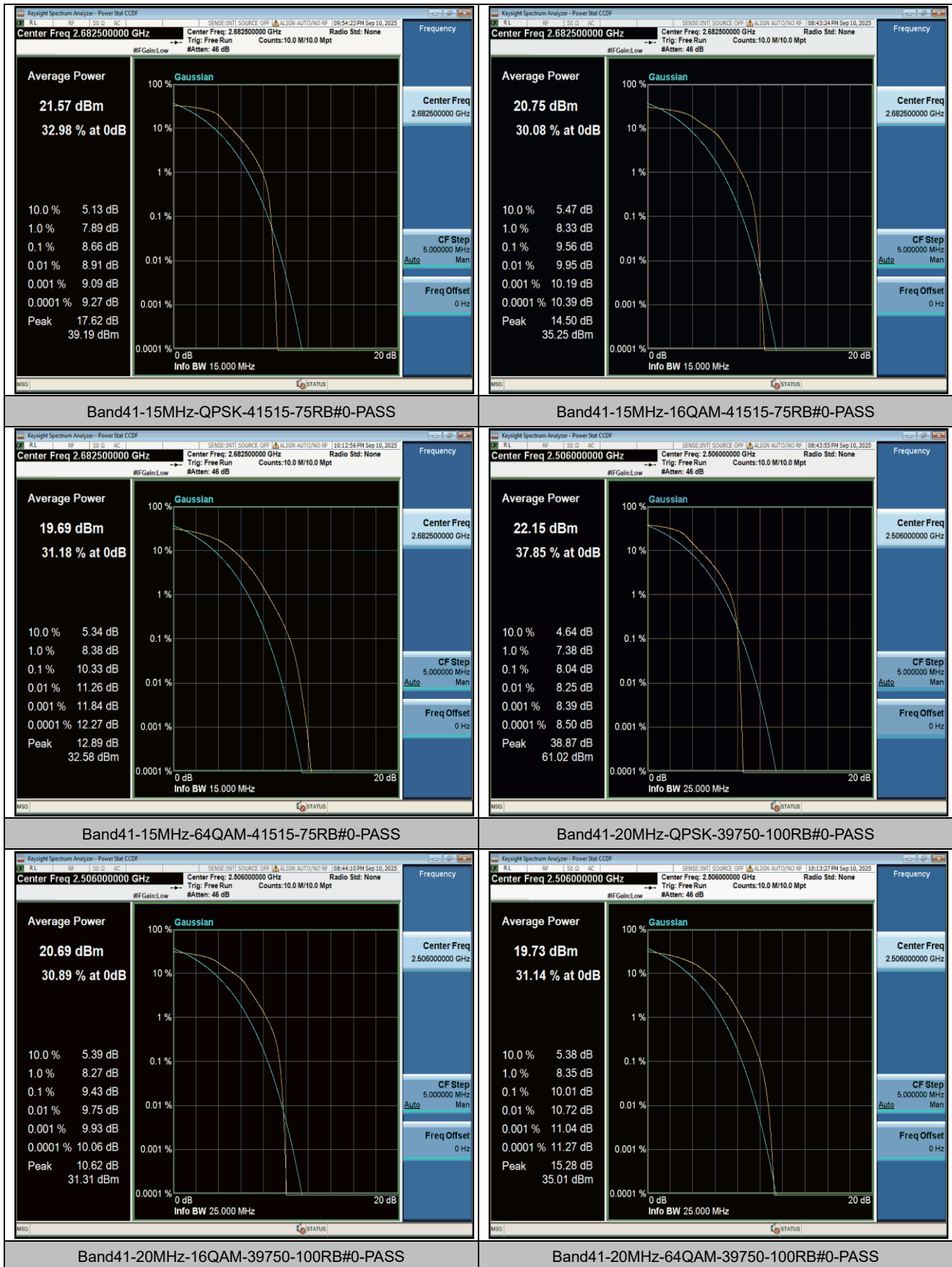
Test Graphs

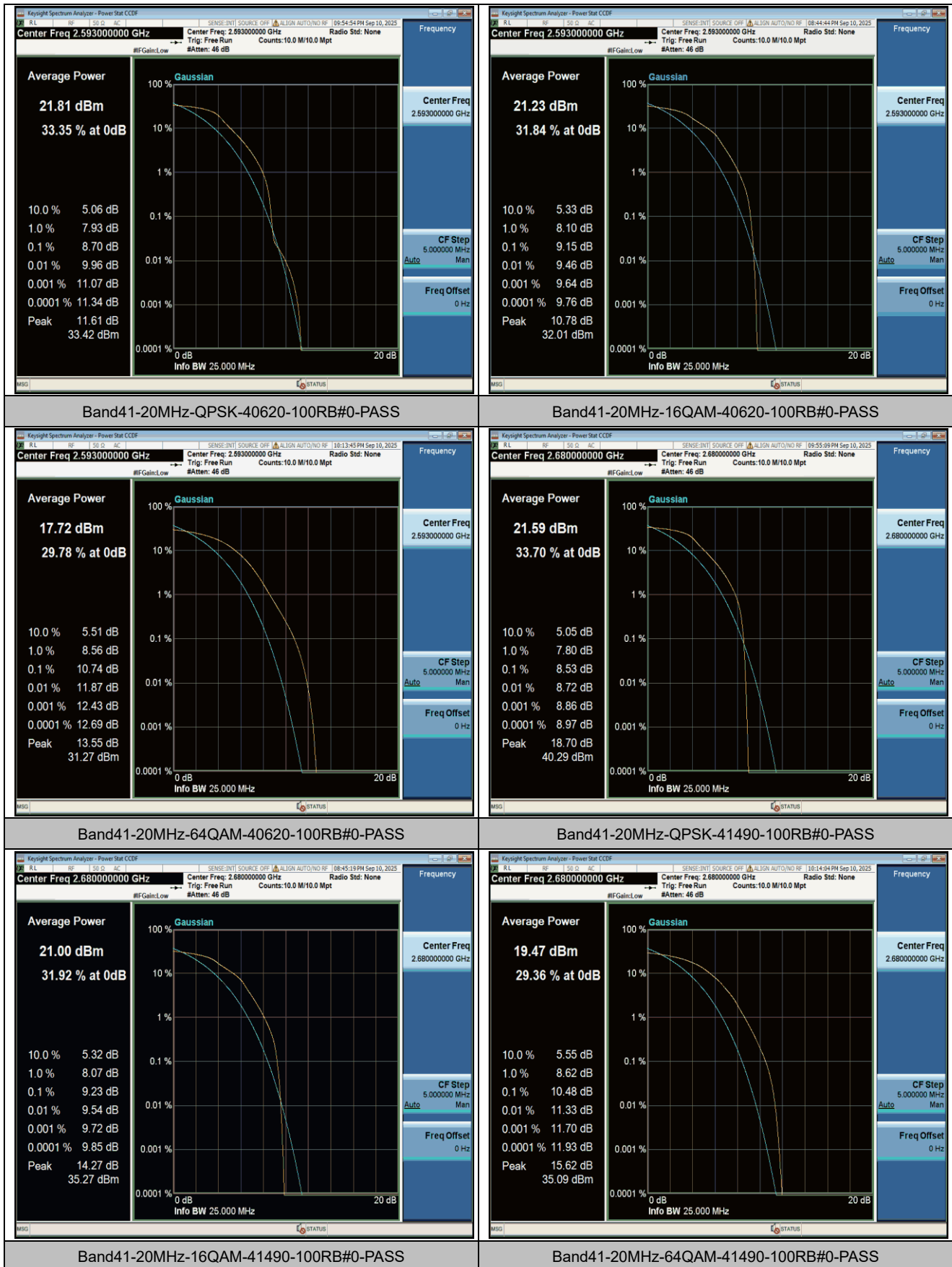










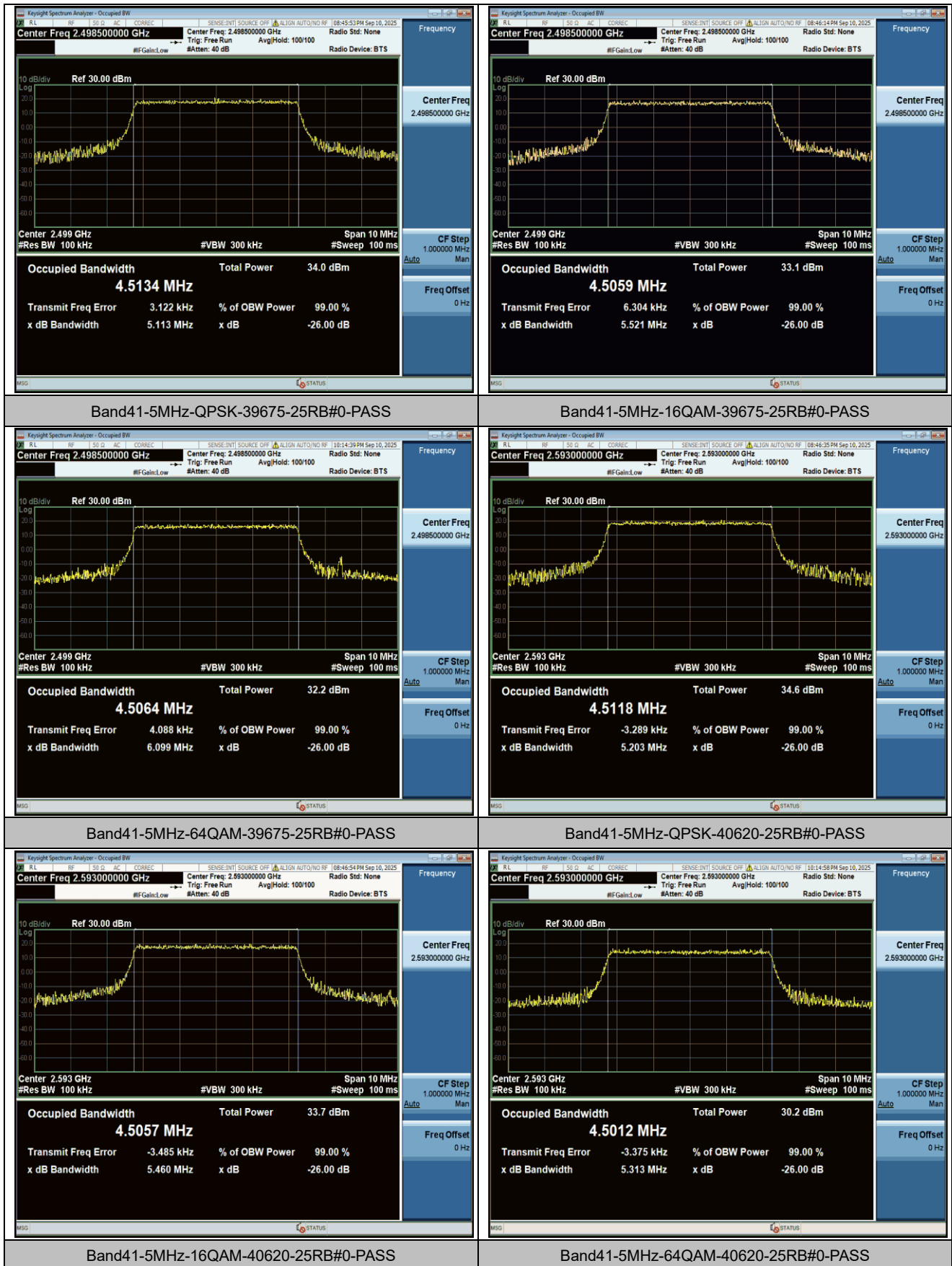


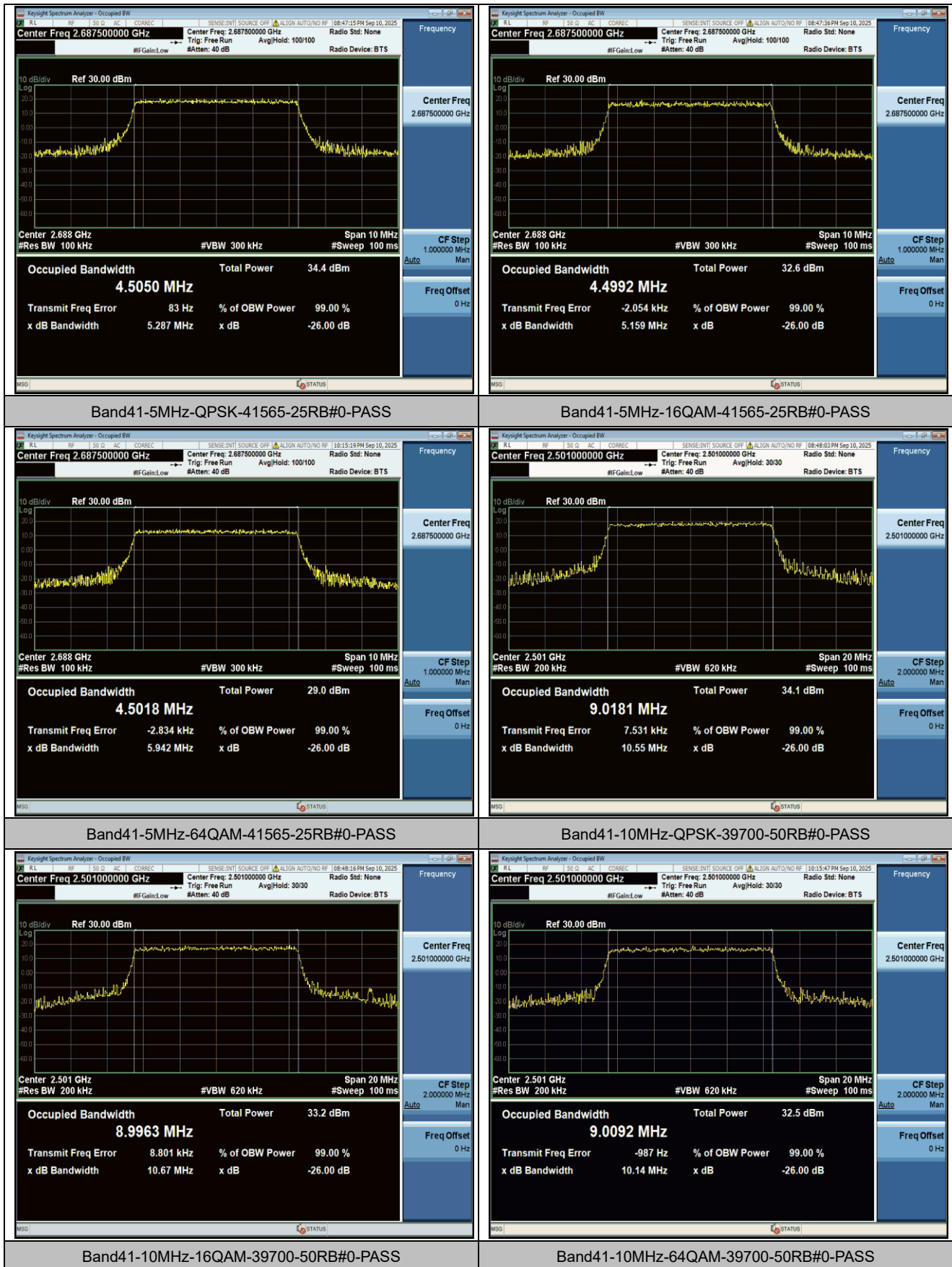
26dB Bandwidth and Occupied Bandwidth

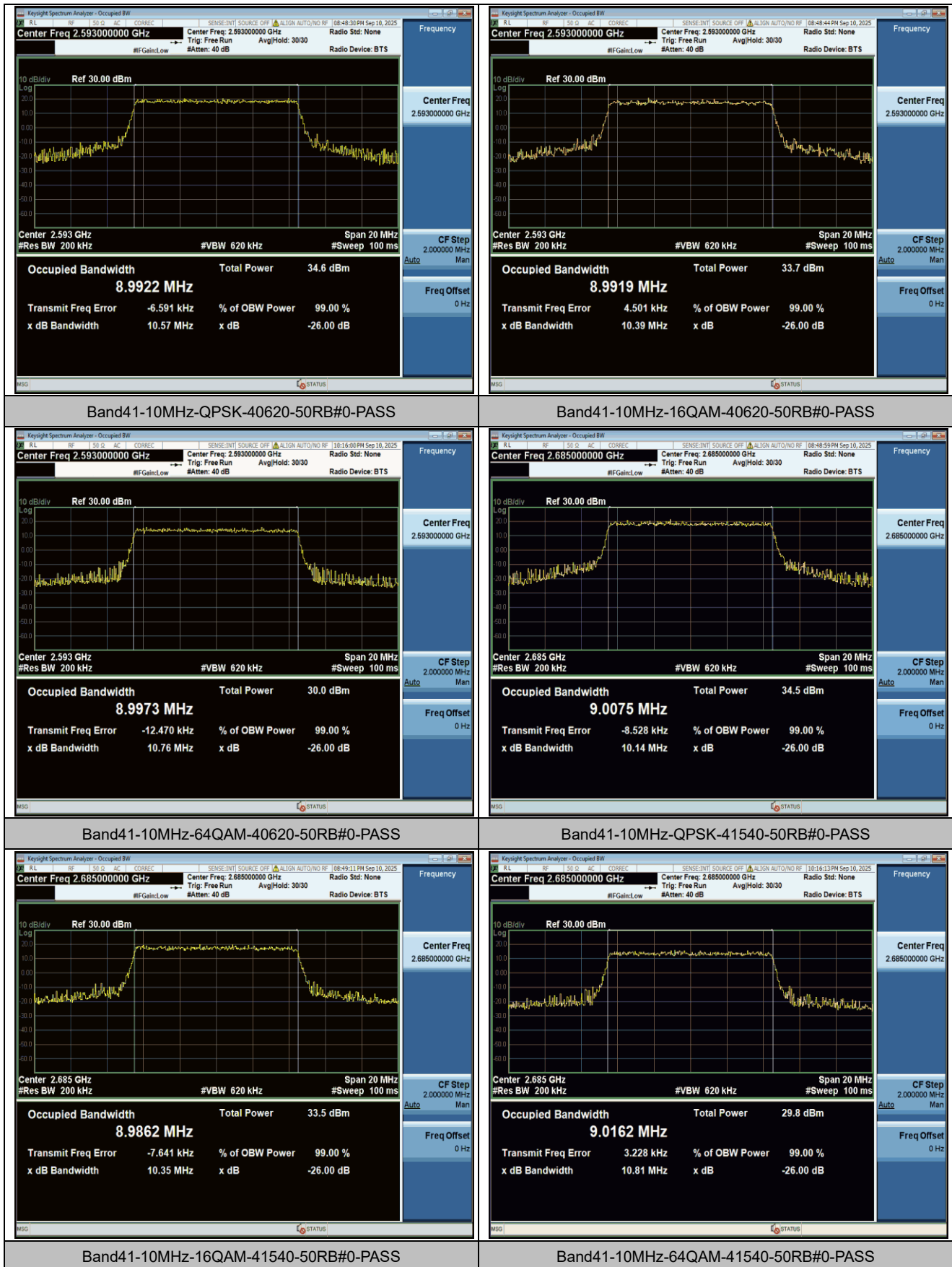
Test Result

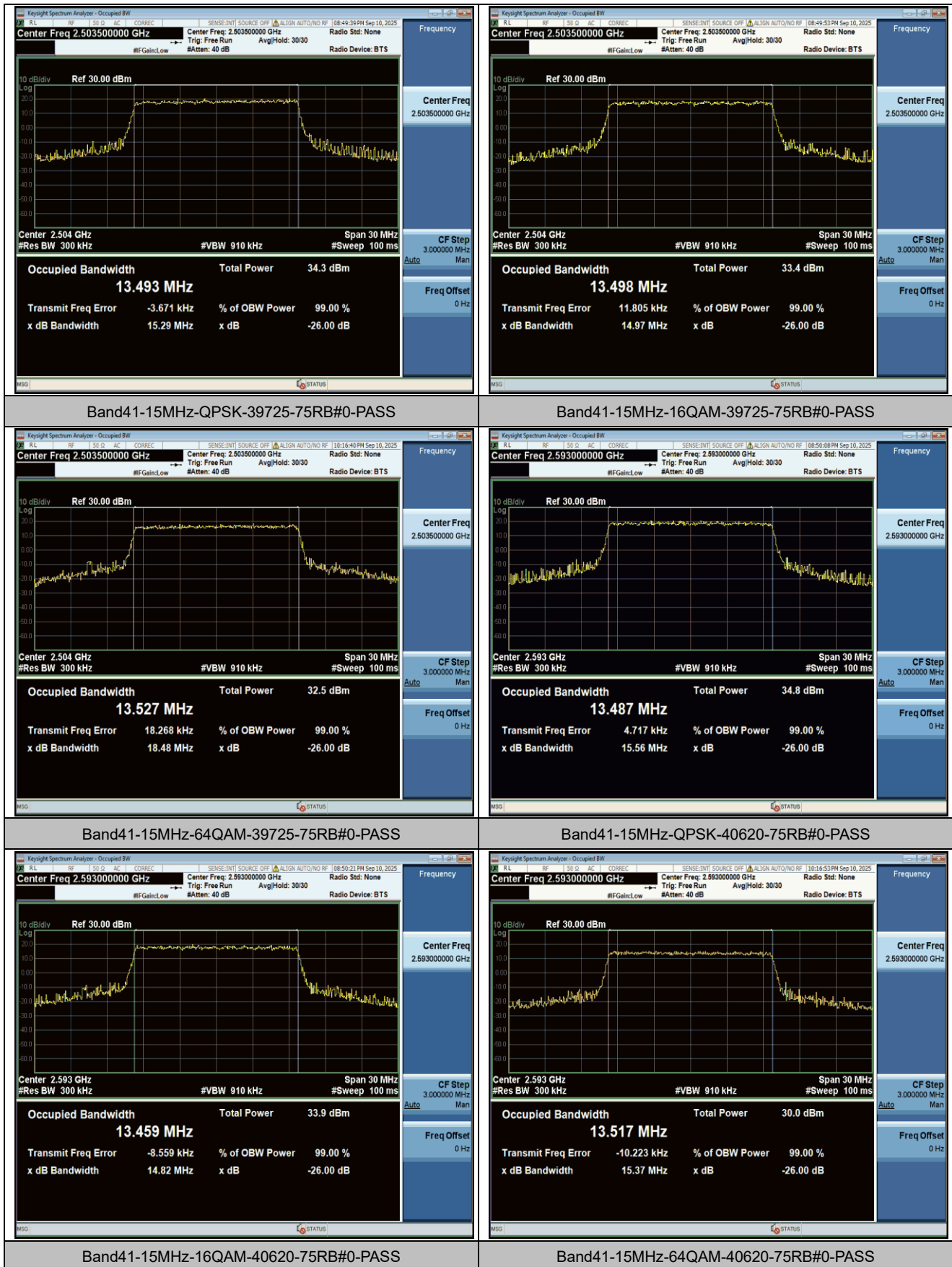
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5134	5.113	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5059	5.521	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.5064	6.099	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5118	5.203	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.5057	5.460	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.5012	5.313	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5050	5.287	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4992	5.159	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.5018	5.942	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.0181	10.55	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9963	10.67	PASS
Band41	10MHz	64QAM	39700	50RB#0	9.0092	10.14	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9922	10.57	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9919	10.39	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.9973	10.76	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.0075	10.14	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9862	10.35	PASS
Band41	10MHz	64QAM	41540	50RB#0	9.0162	10.81	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.493	15.29	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.498	14.97	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.527	18.48	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.487	15.56	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.459	14.82	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.517	15.37	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.497	16.17	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.515	15.75	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.516	15.99	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.924	20.28	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.953	20.65	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.956	20.11	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.978	20.23	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.966	19.81	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.936	20.05	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.967	20.57	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.912	20.89	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.974	20.20	PASS

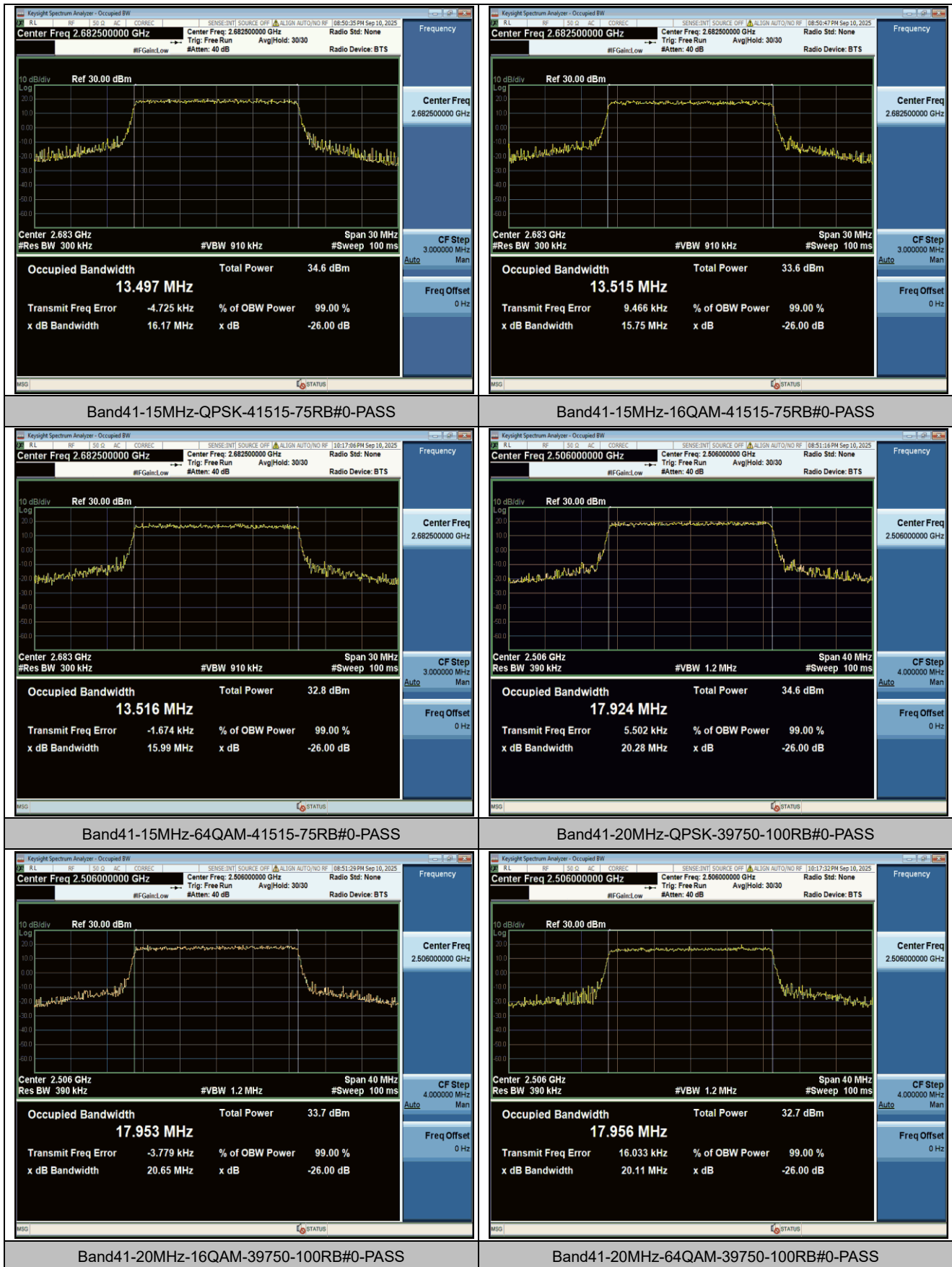
Test Graphs

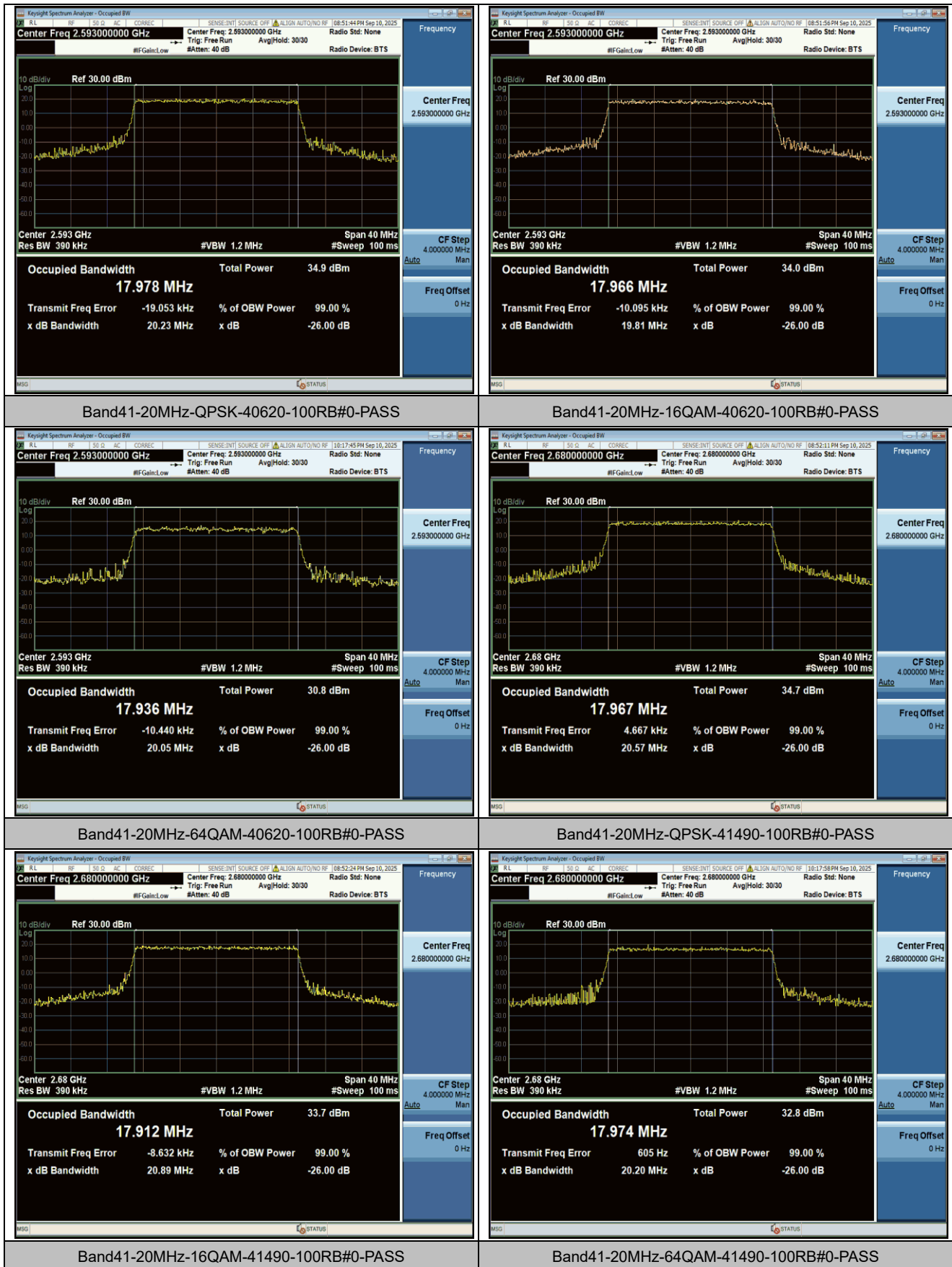






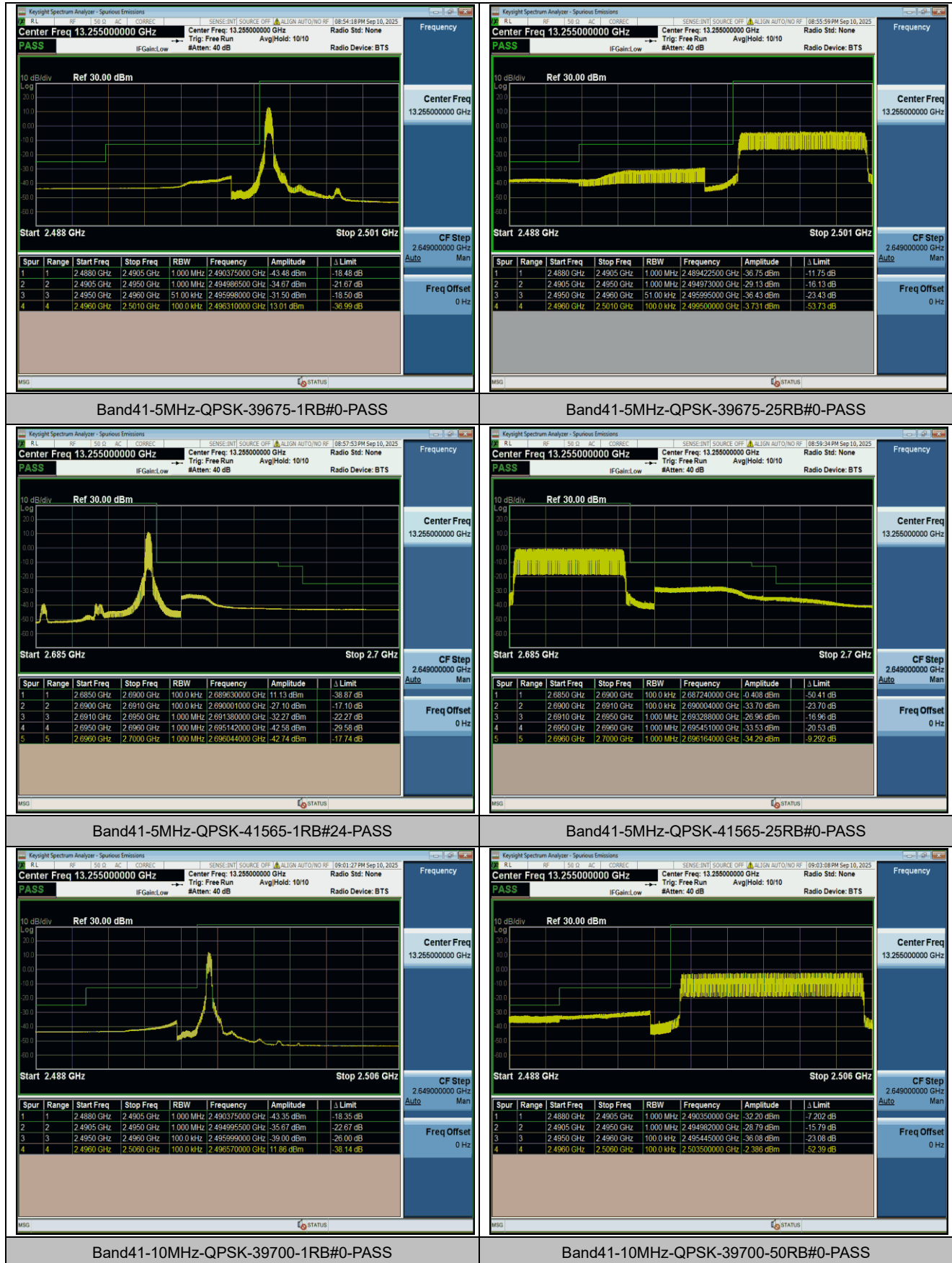


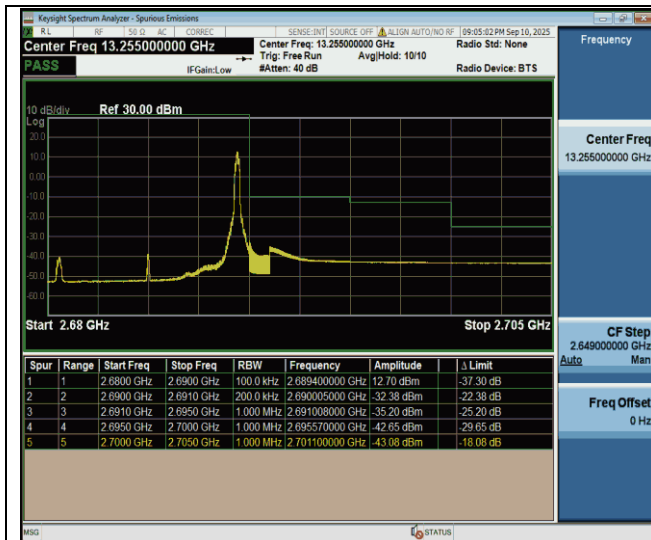




Band Edge

Test Graphs

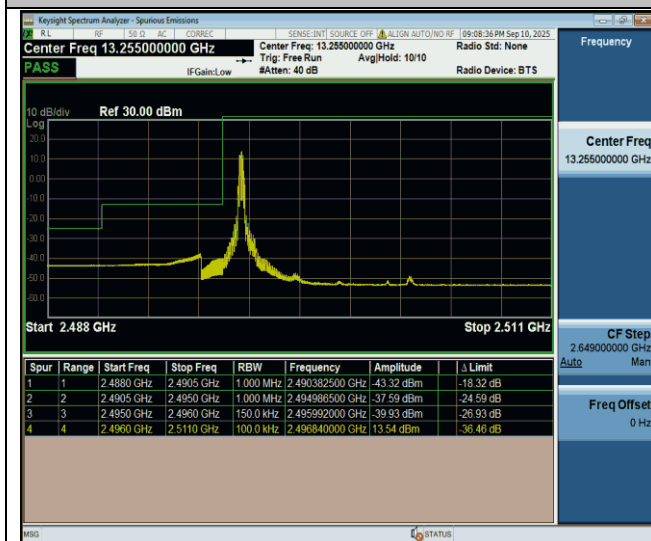




Band41-10MHz-QPSK-41540-1RB#49-PASS



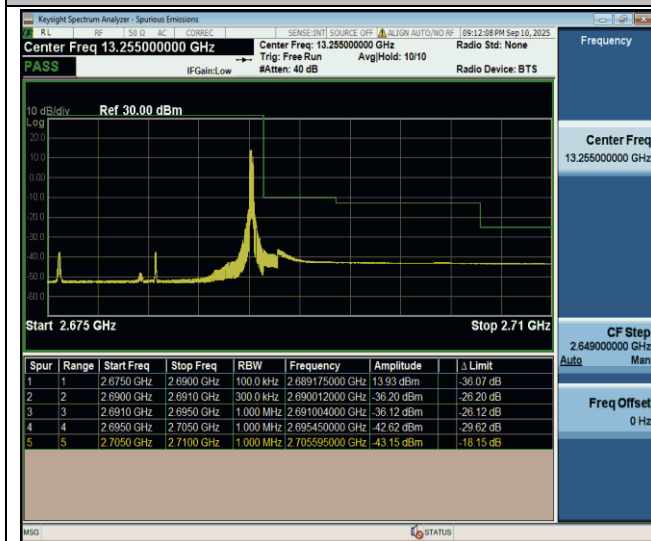
Band41-10MHz-QPSK-41540-50RB#0-PASS



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



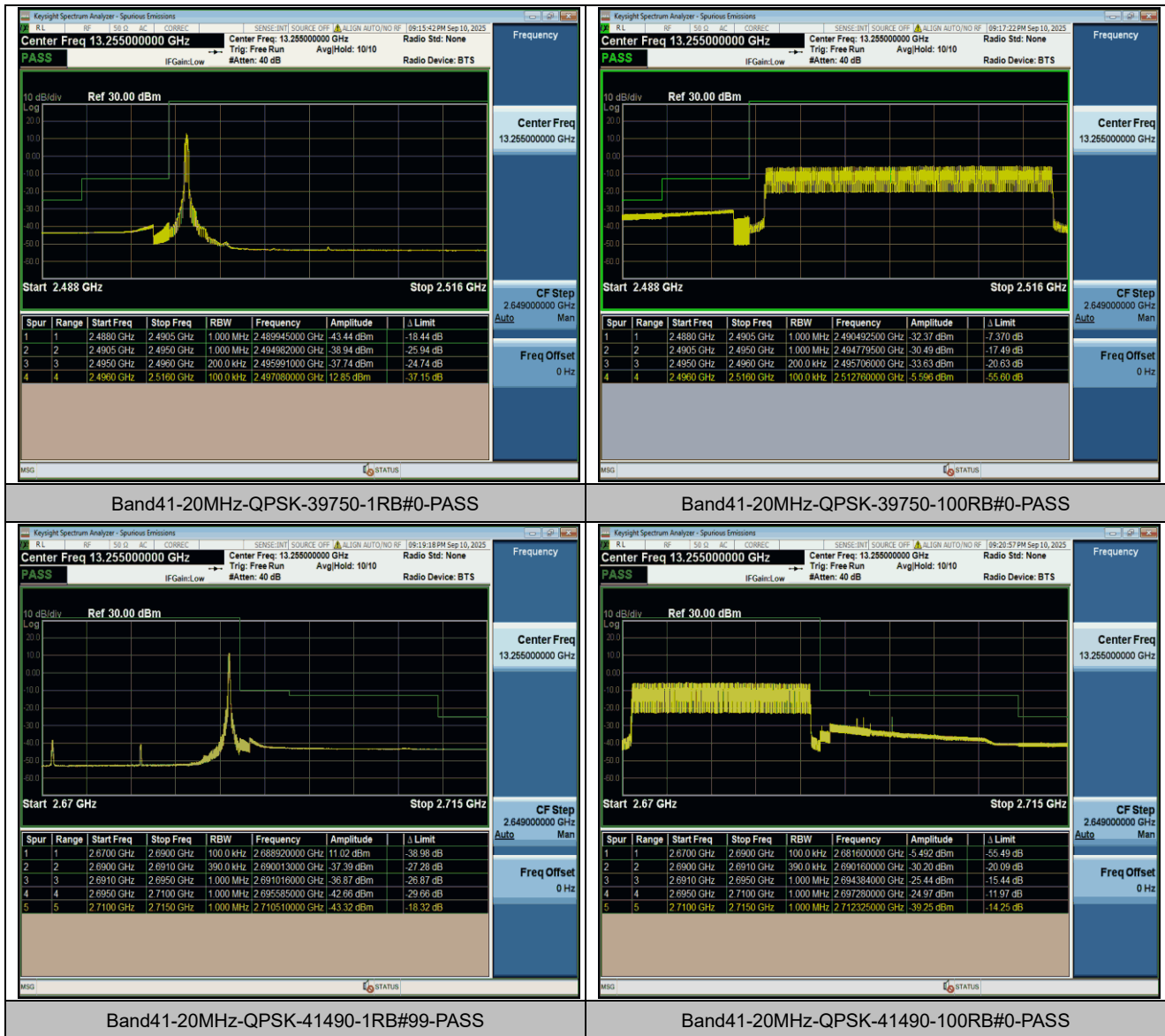
Band41-15MHz-QPSK-39725-75RB#0-PASS



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

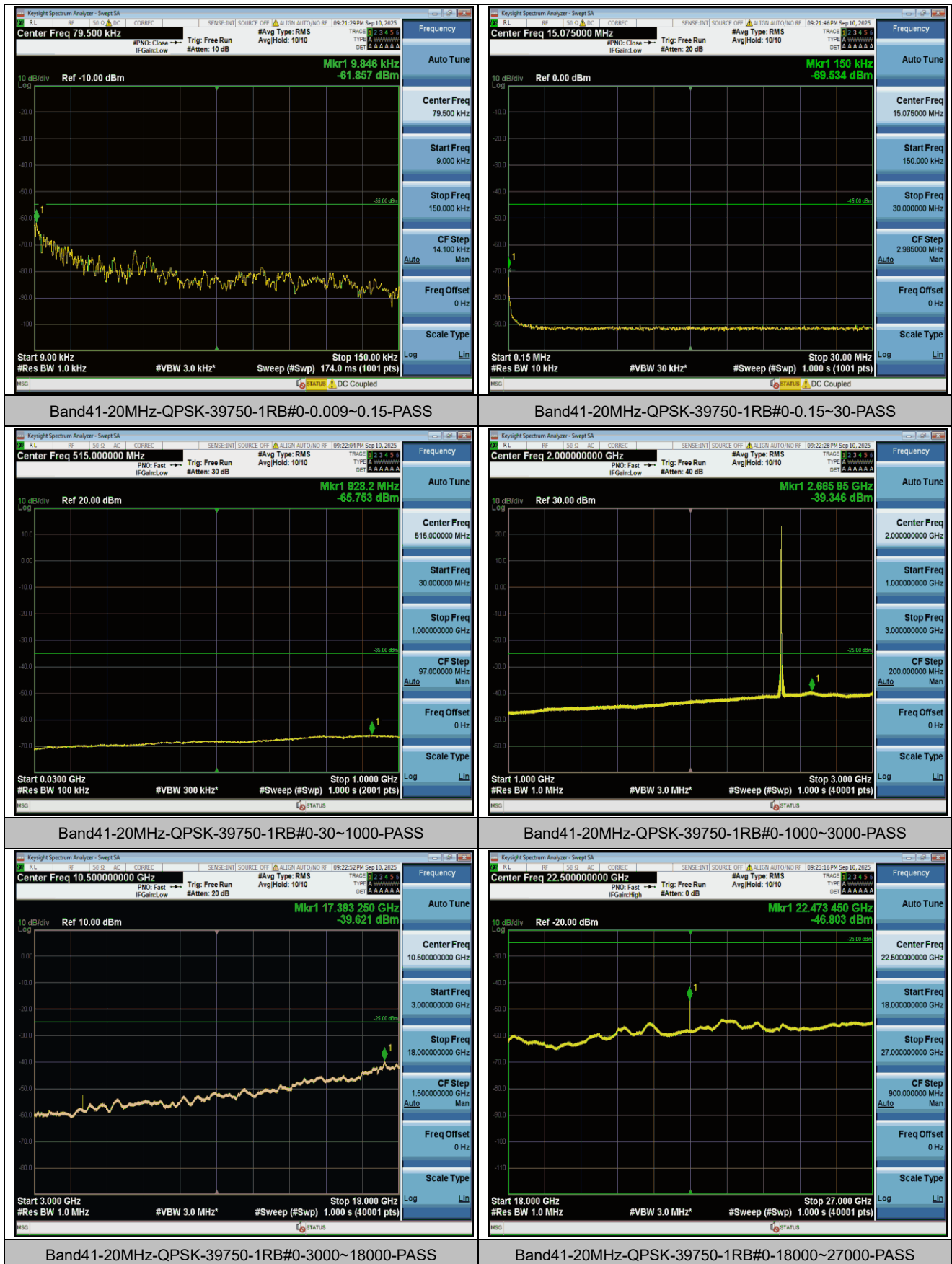


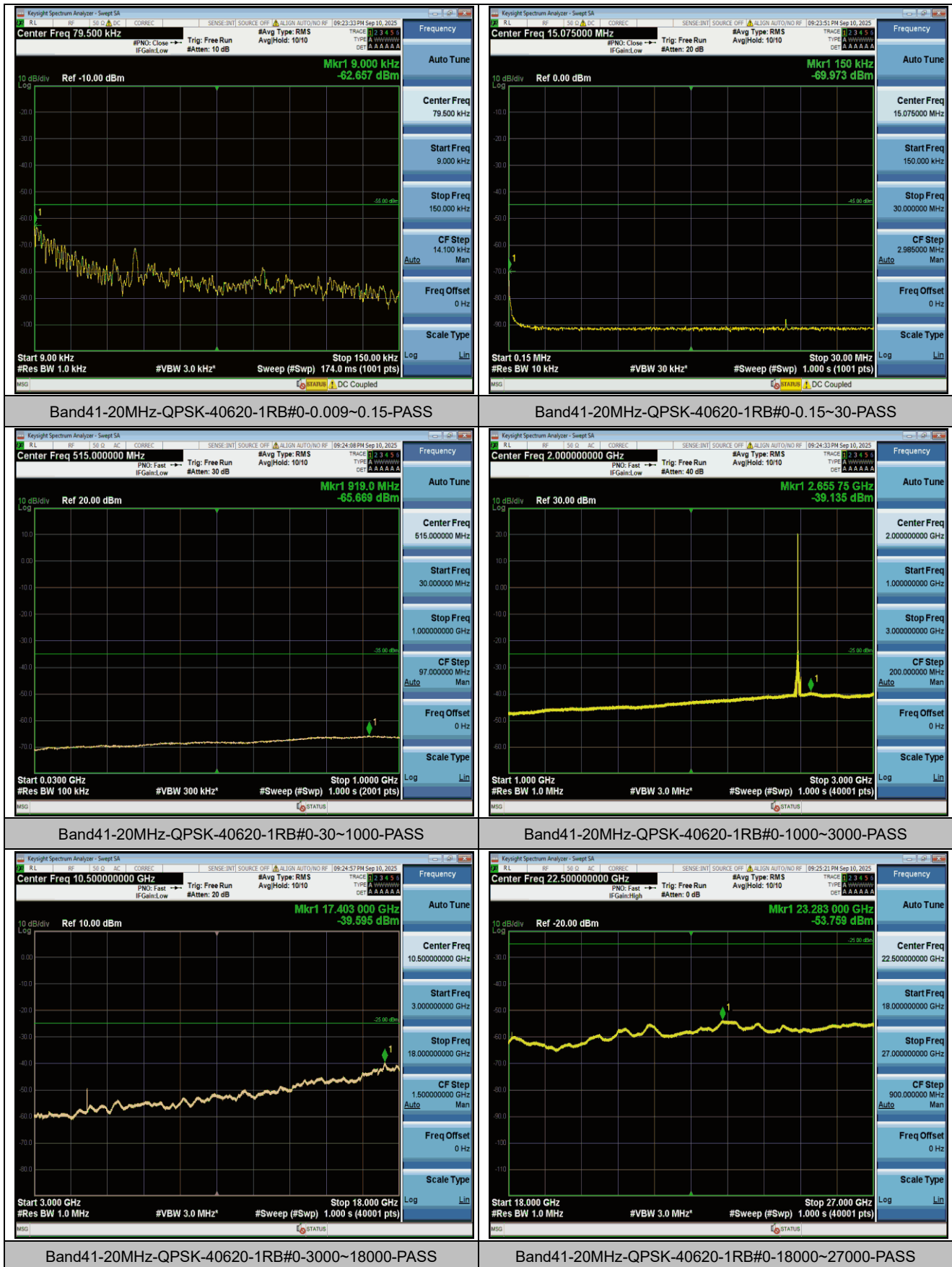
Band41-15MHz-QPSK-41515-75RB#0-PASS

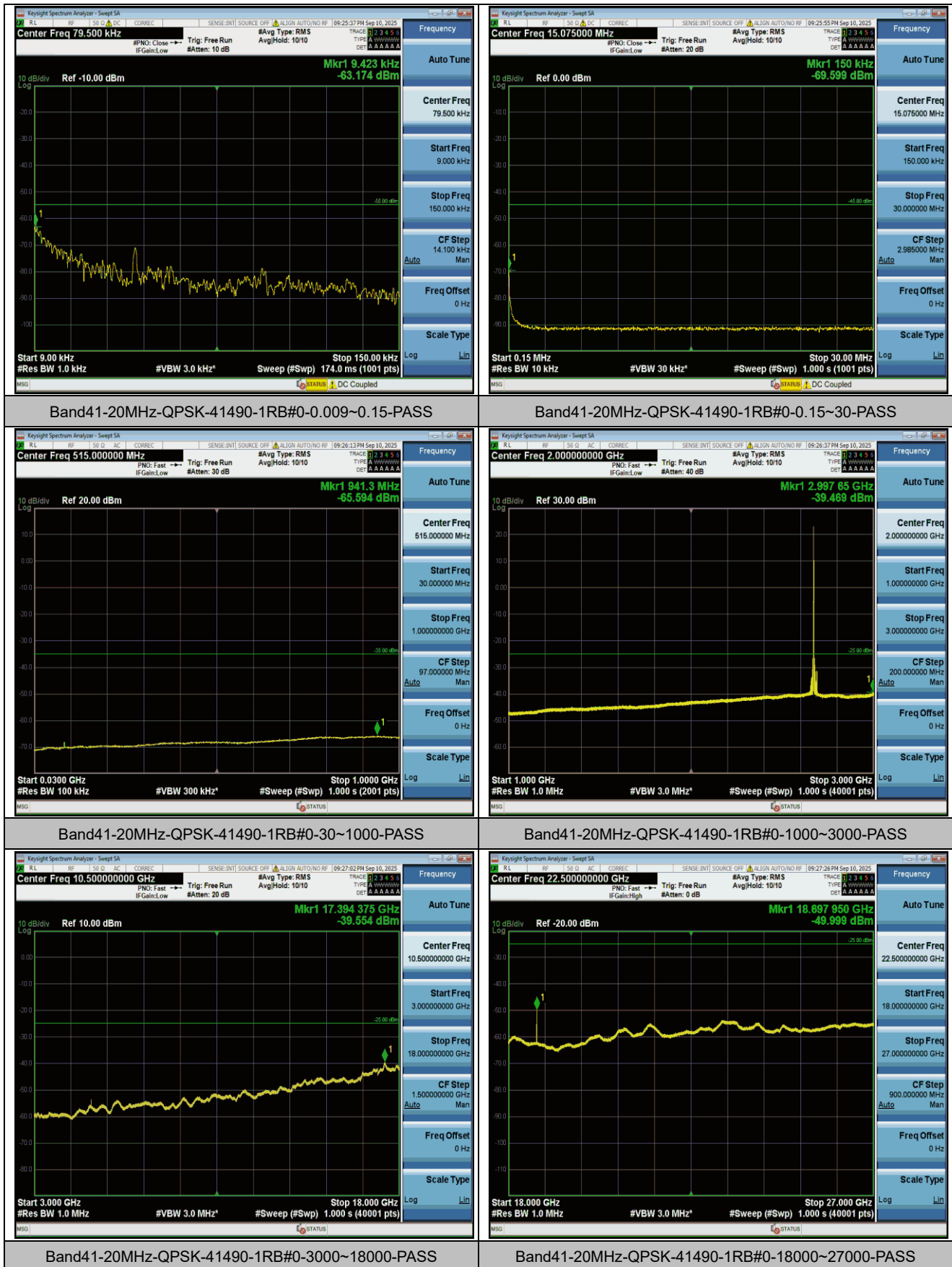


Conducted Spurious Emission

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	-0.60	-0.000231	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	1.10	0.000424	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-1.60	-0.000617	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	-1.10	-0.000424	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-0.10	-0.000039	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	0.40	0.000154	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	1.40	0.000540	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-1.30	-0.000501	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	0.70	0.000270	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-1.80	-0.000694	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	0.60	0.000231	PASS

~The End~