

Appendix-A LTE Band 2

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.03	24.83	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.14	24.94	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.02	24.82	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.14	23.94	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.53	24.33	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.53	24.33	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.39	24.19	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.27	23.07	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.17	24.97	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.28	25.08	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.19	24.99	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.19	23.99	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.51	24.31	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.66	24.46	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.63	24.43	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.46	23.26	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.35	25.15	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.47	25.27	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.35	25.15	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.37	24.17	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.58	24.38	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.66	24.46	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.69	24.49	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.6	23.4	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.99	24.79	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.12	24.92	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.06	24.86	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.05	23.85	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.58	24.38	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.58	24.38	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.49	24.29	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.2	23	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.23	25.03	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.15	24.95	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.28	25.08	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.23	24.03	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.65	24.45	33.00	PASS

Band2	3MHz	16QAM	18900	1RB#8	22.65	24.45	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.58	24.38	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.39	23.19	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.42	25.22	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.43	25.23	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.46	25.26	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.44	24.24	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.65	24.45	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.73	24.53	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.74	24.54	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.63	23.43	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.09	24.89	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.11	24.91	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.14	24.94	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.13	23.93	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.52	24.32	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.52	24.32	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.54	24.34	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.19	22.99	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.18	24.98	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.25	25.05	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.19	24.99	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.23	24.03	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.61	24.41	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.79	24.59	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.62	24.42	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.34	23.14	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.47	25.27	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.47	25.27	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.36	25.16	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.49	24.29	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.72	24.52	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.78	24.58	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.57	24.37	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.56	23.36	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.12	24.92	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.07	24.87	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.17	24.97	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.29	24.09	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.48	24.28	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.48	24.28	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.44	24.24	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.29	23.09	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.2	25	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.21	25.01	33.00	PASS

Band2	10MHz	QPSK	18900	1RB#49	23.2	25	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.18	23.98	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.31	24.11	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.6	24.4	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.7	24.5	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.41	23.21	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.53	25.33	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.46	25.26	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.42	25.22	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.48	24.28	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.67	24.47	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.68	24.48	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.75	24.55	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.61	23.41	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.04	24.84	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.13	24.93	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.14	24.94	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.23	24.03	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.53	24.33	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.58	24.38	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.74	24.54	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.35	23.15	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.16	24.96	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.19	24.99	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.27	25.07	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.25	24.05	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.73	24.53	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.61	24.41	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.43	24.23	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.36	23.16	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.46	25.26	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.51	25.31	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.4	25.2	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.52	24.32	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.61	24.41	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.71	24.51	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.63	24.43	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.59	23.39	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.02	24.82	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.15	24.95	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.06	24.86	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.23	24.03	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.56	24.36	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.64	24.44	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.59	24.39	33.00	PASS

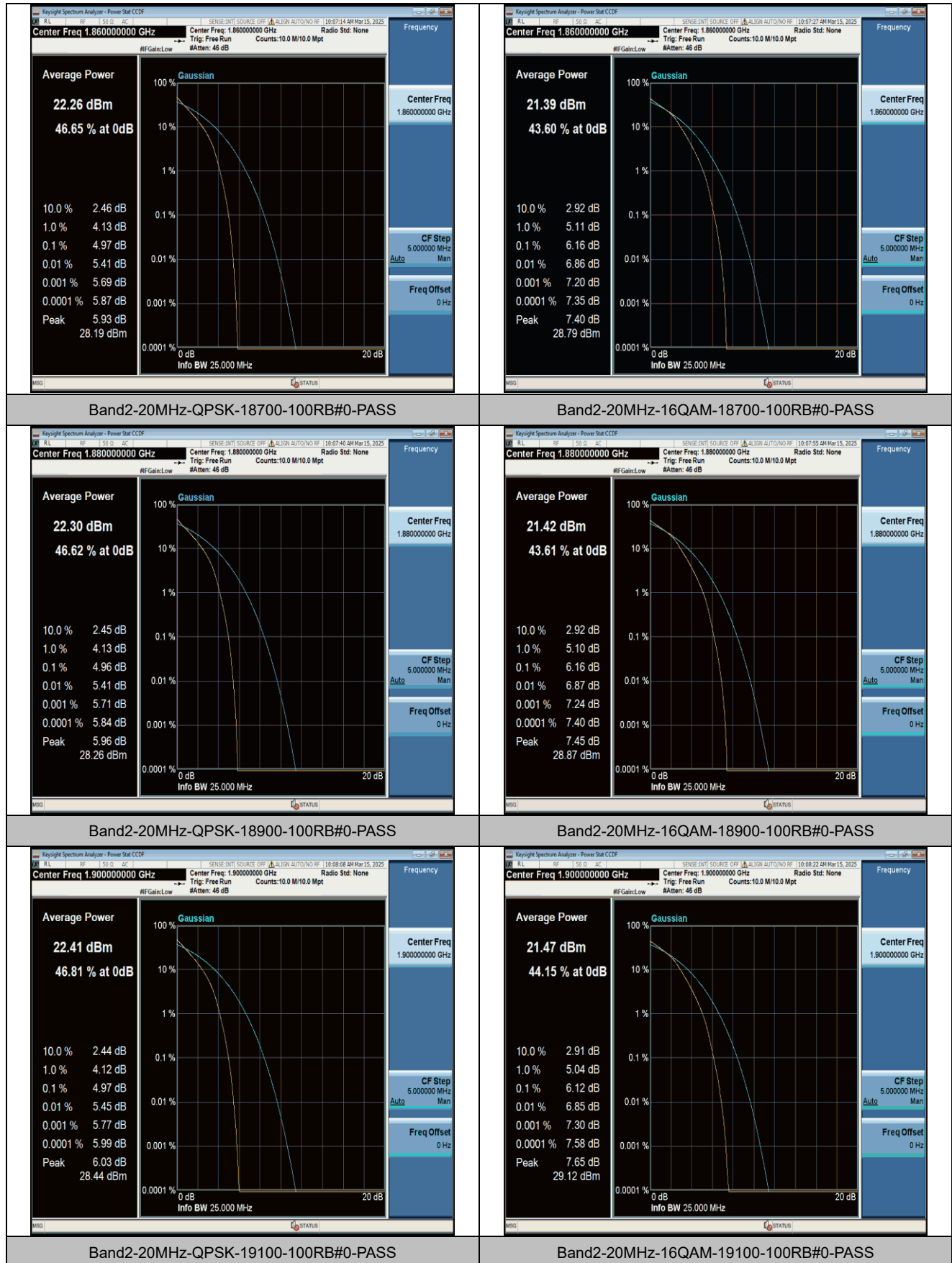
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Band2	20MHz	QPSK	18900	1RB#0	23.08	24.88	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.2	25	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.21	25.01	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.23	24.03	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.54	24.34	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.75	24.55	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.52	24.32	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.45	23.25	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.31	25.11	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.52	25.32	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.44	25.24	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.38	24.18	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.68	24.48	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.64	24.44	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.73	24.53	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.48	23.28	33.00	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	4.97	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.16	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.96	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.16	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.97	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.12	13	PASS

Test Graphs

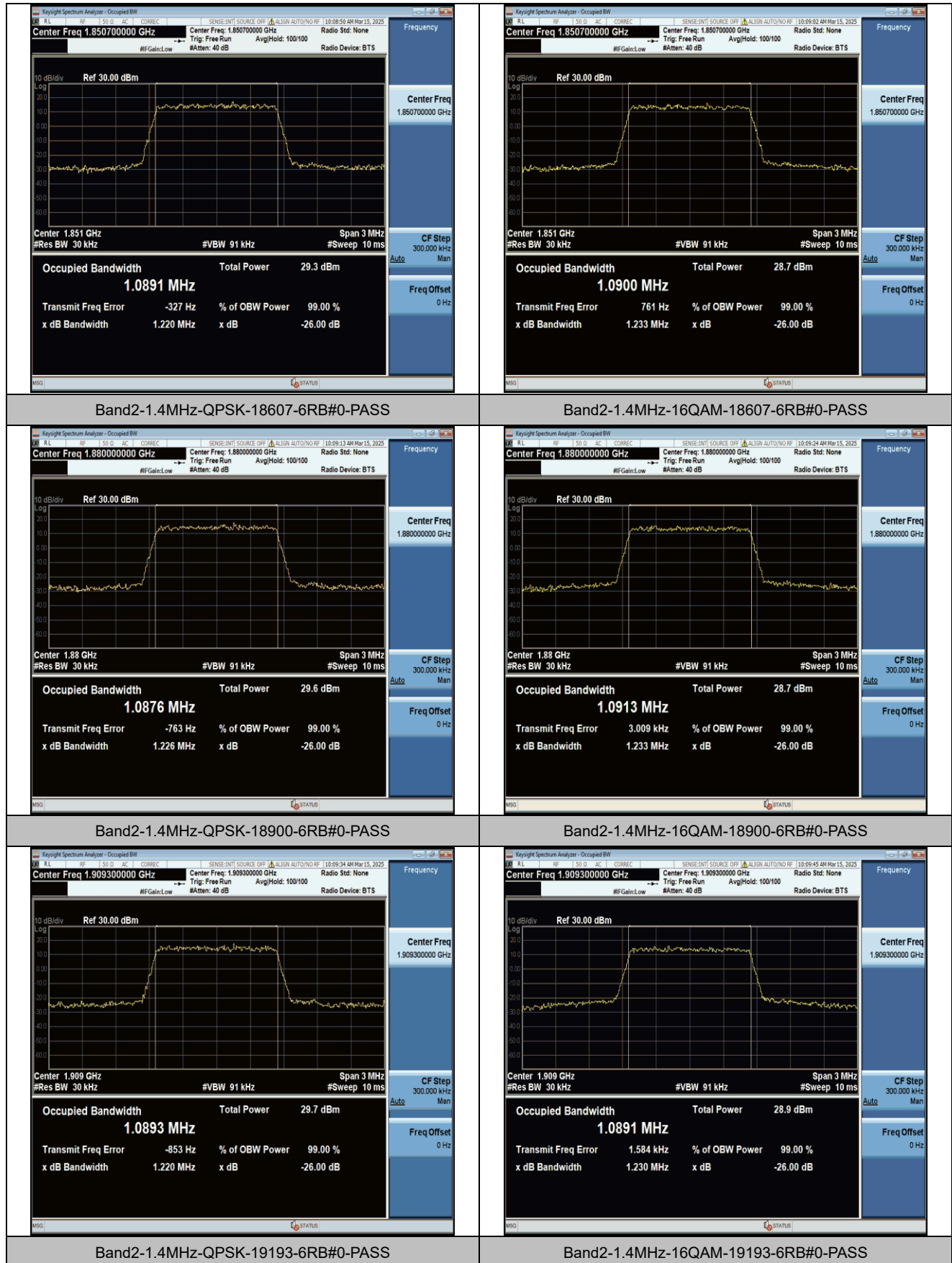


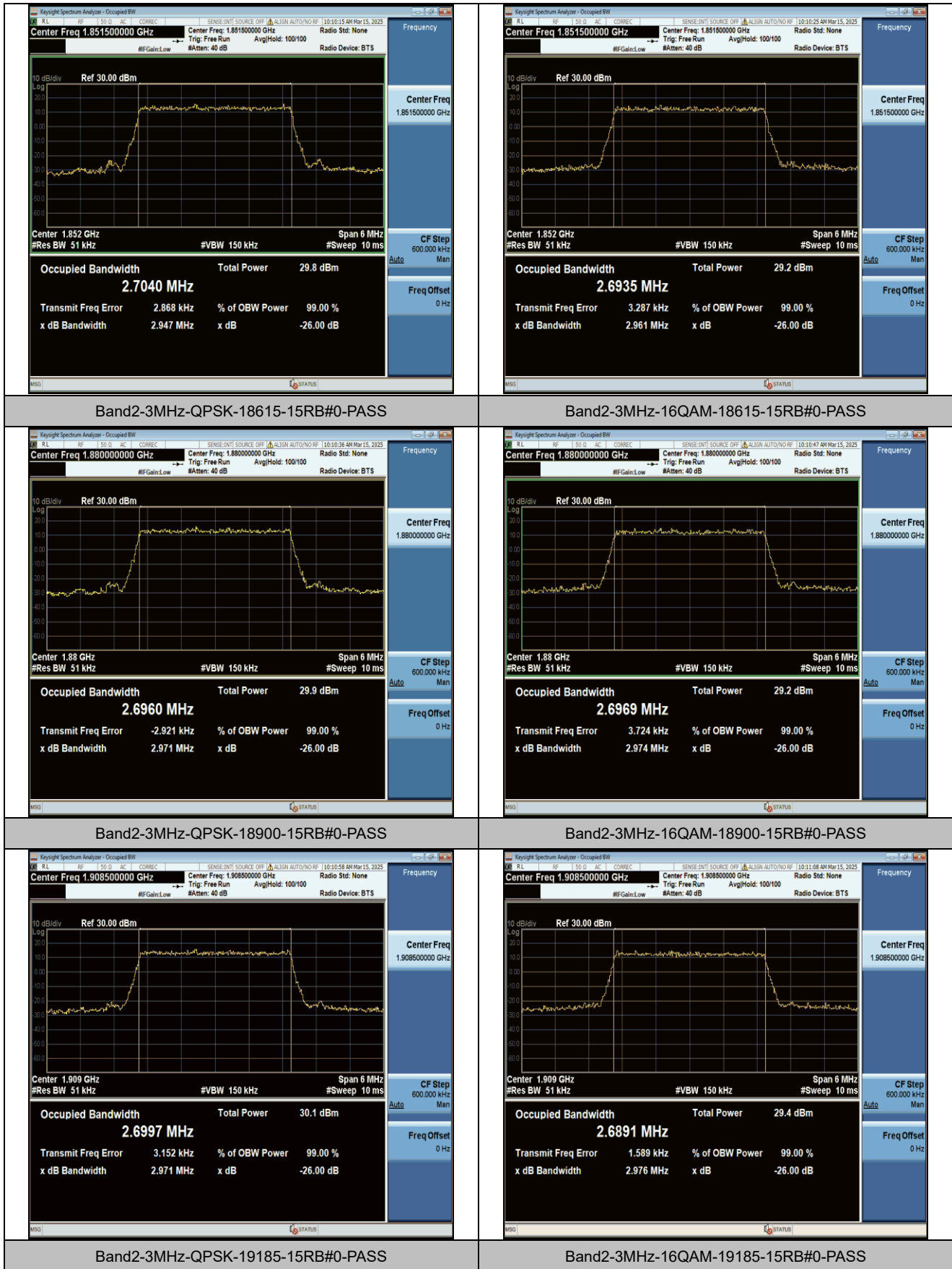
26dB Bandwidth and Occupied Bandwidth

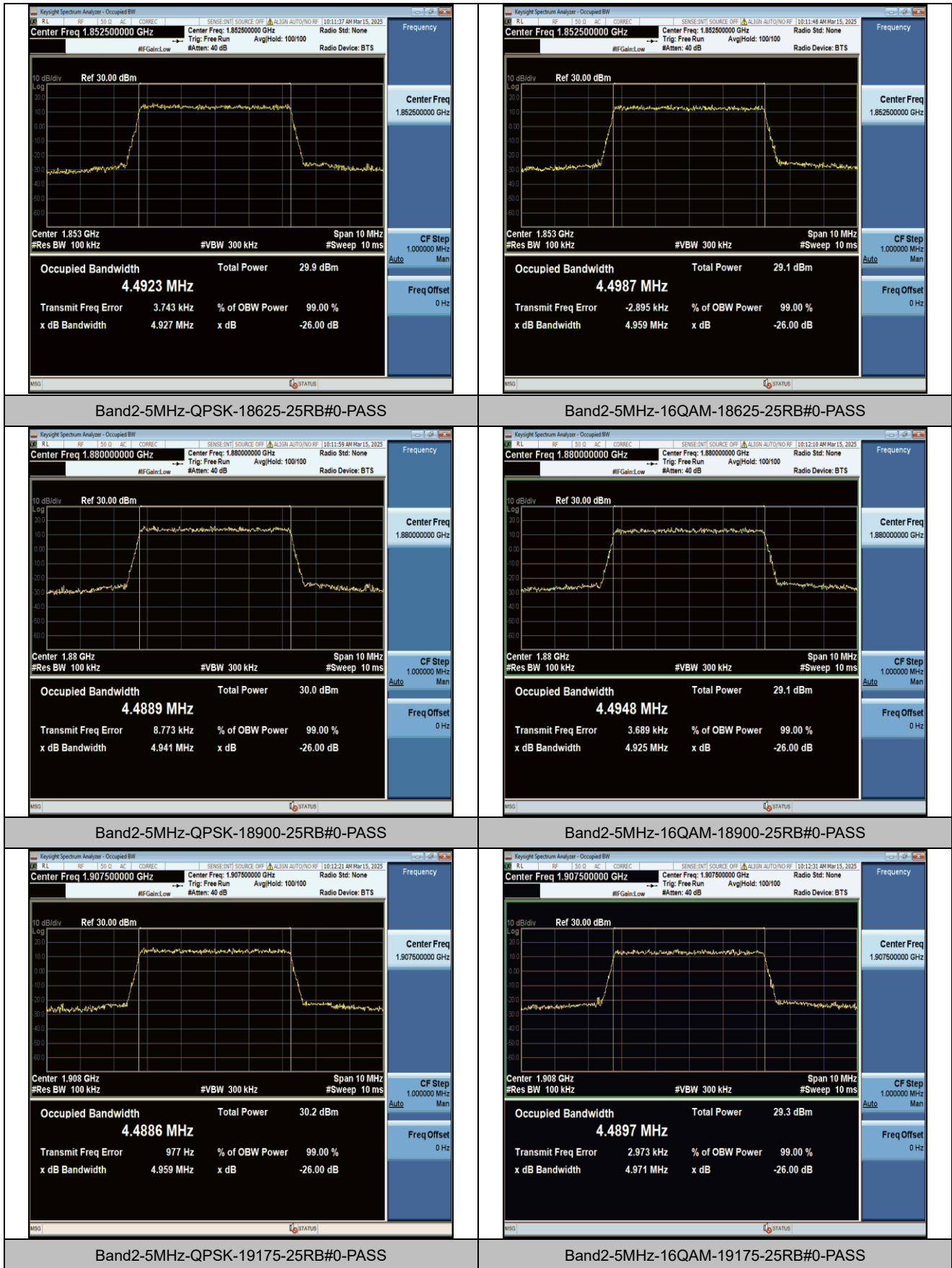
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0891	1.220	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0900	1.233	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0876	1.226	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0913	1.233	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0893	1.220	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0891	1.230	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.7040	2.947	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6935	2.961	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6960	2.971	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6969	2.974	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6997	2.971	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6891	2.976	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4923	4.927	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4987	4.959	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4889	4.941	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4948	4.925	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4886	4.959	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4897	4.971	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9974	9.728	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9744	9.769	PASS
Band2	10MHz	QPSK	18900	50RB#0	9.0027	9.772	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9614	9.723	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9701	9.779	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9709	9.736	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.455	14.66	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.427	14.62	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.472	14.65	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.462	14.63	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.449	14.72	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.456	14.69	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.970	19.38	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.952	19.48	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.965	19.60	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.901	19.50	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.936	19.67	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.950	19.54	PASS

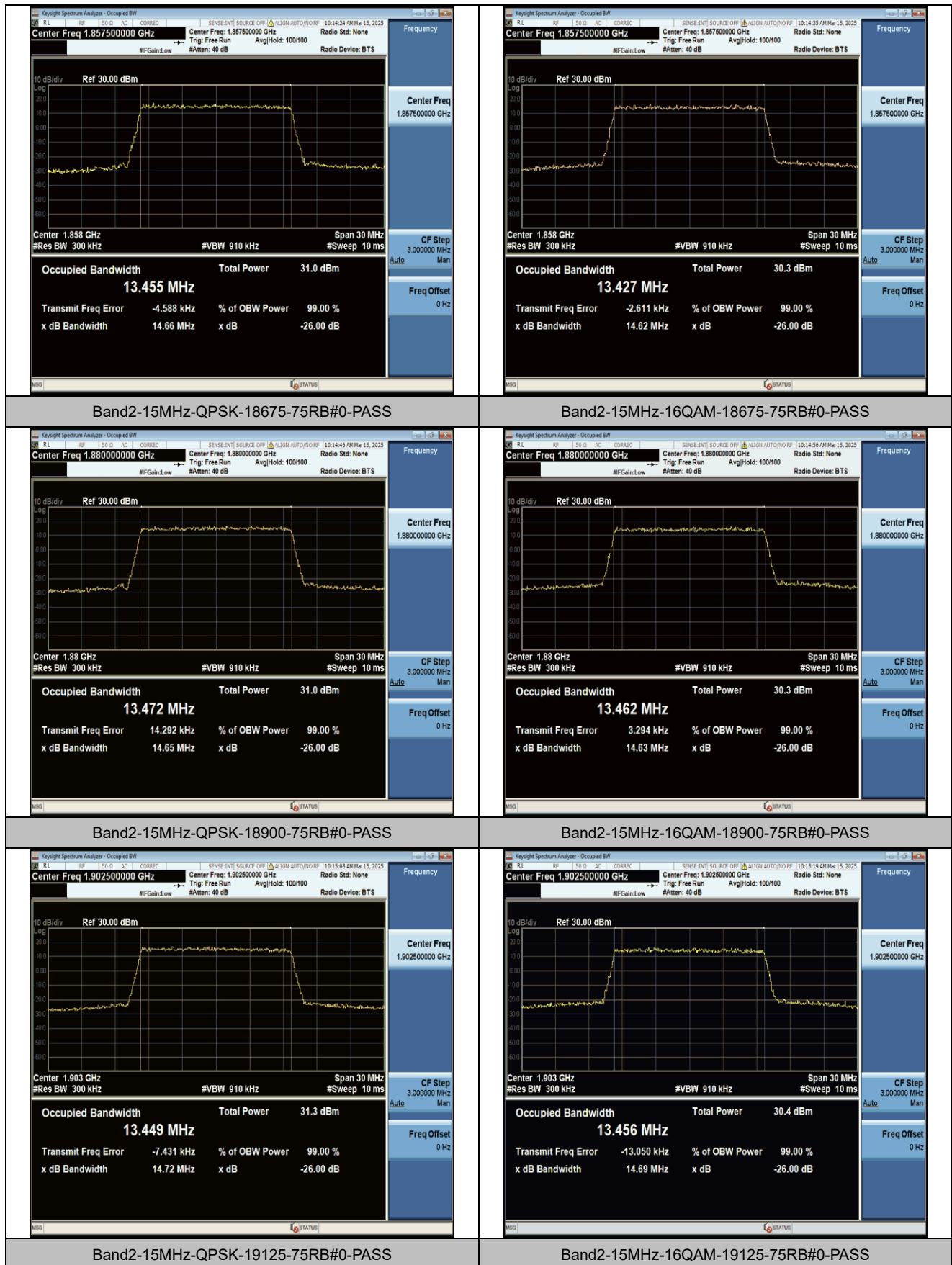
Test Graphs

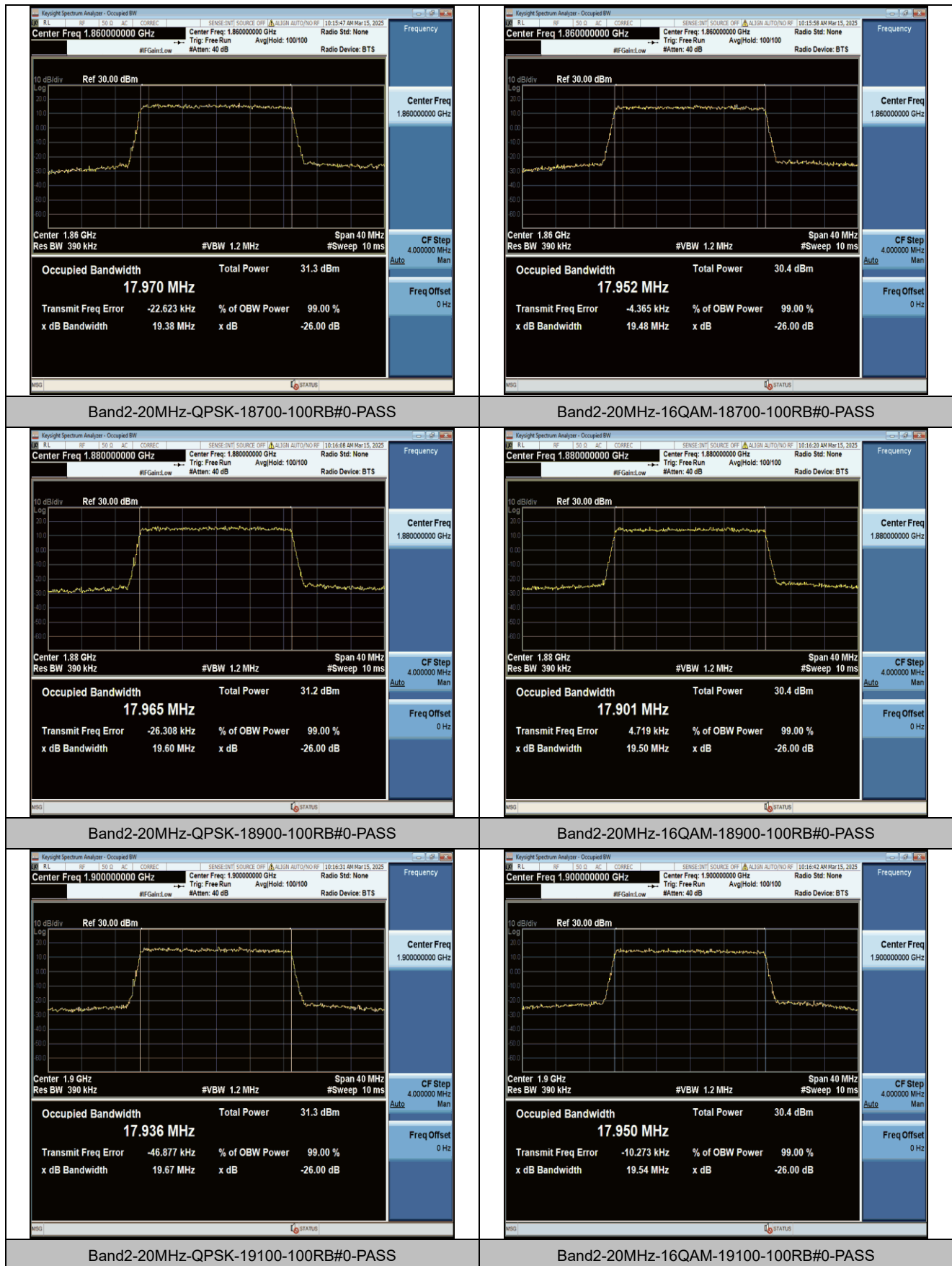






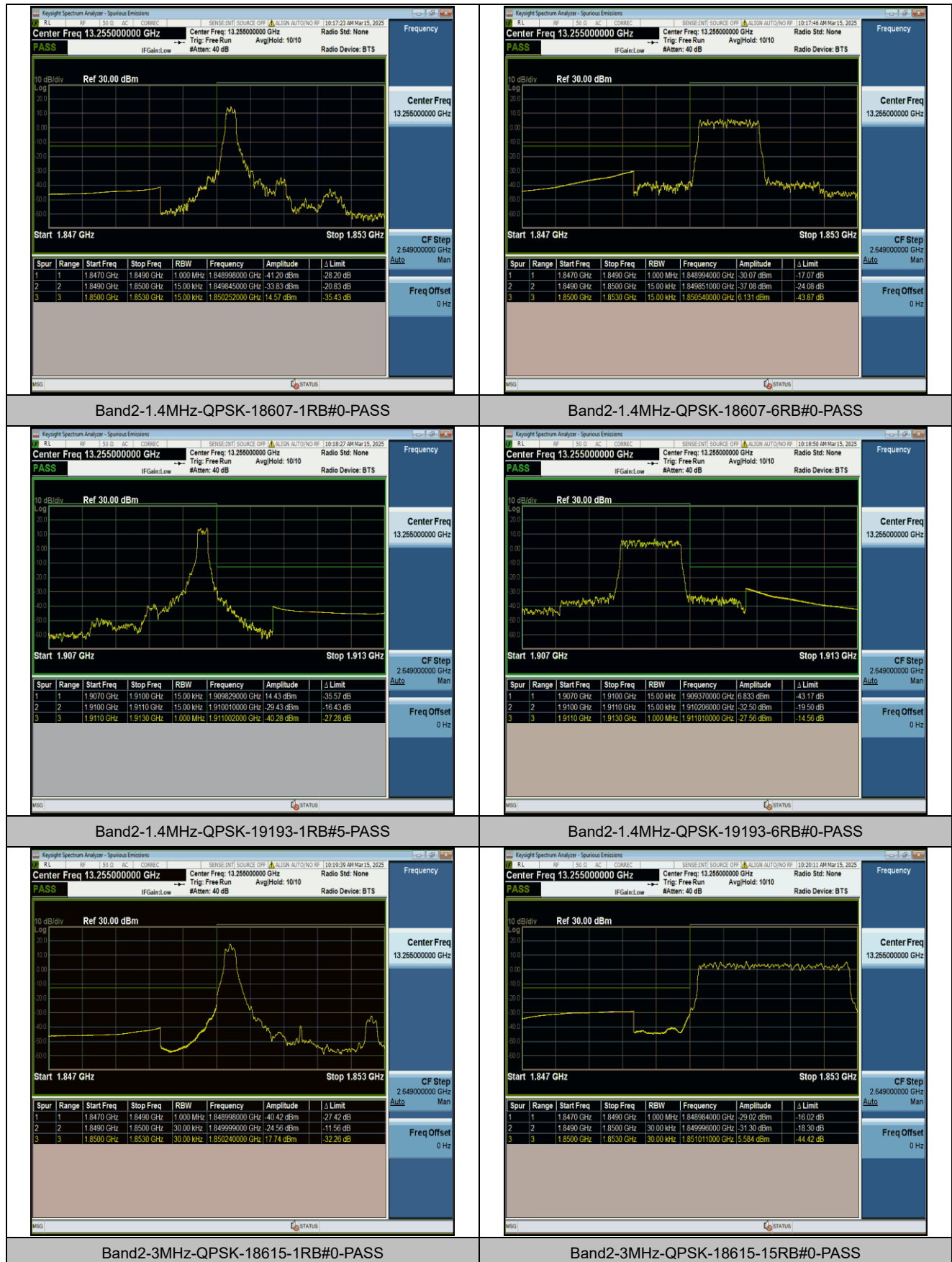


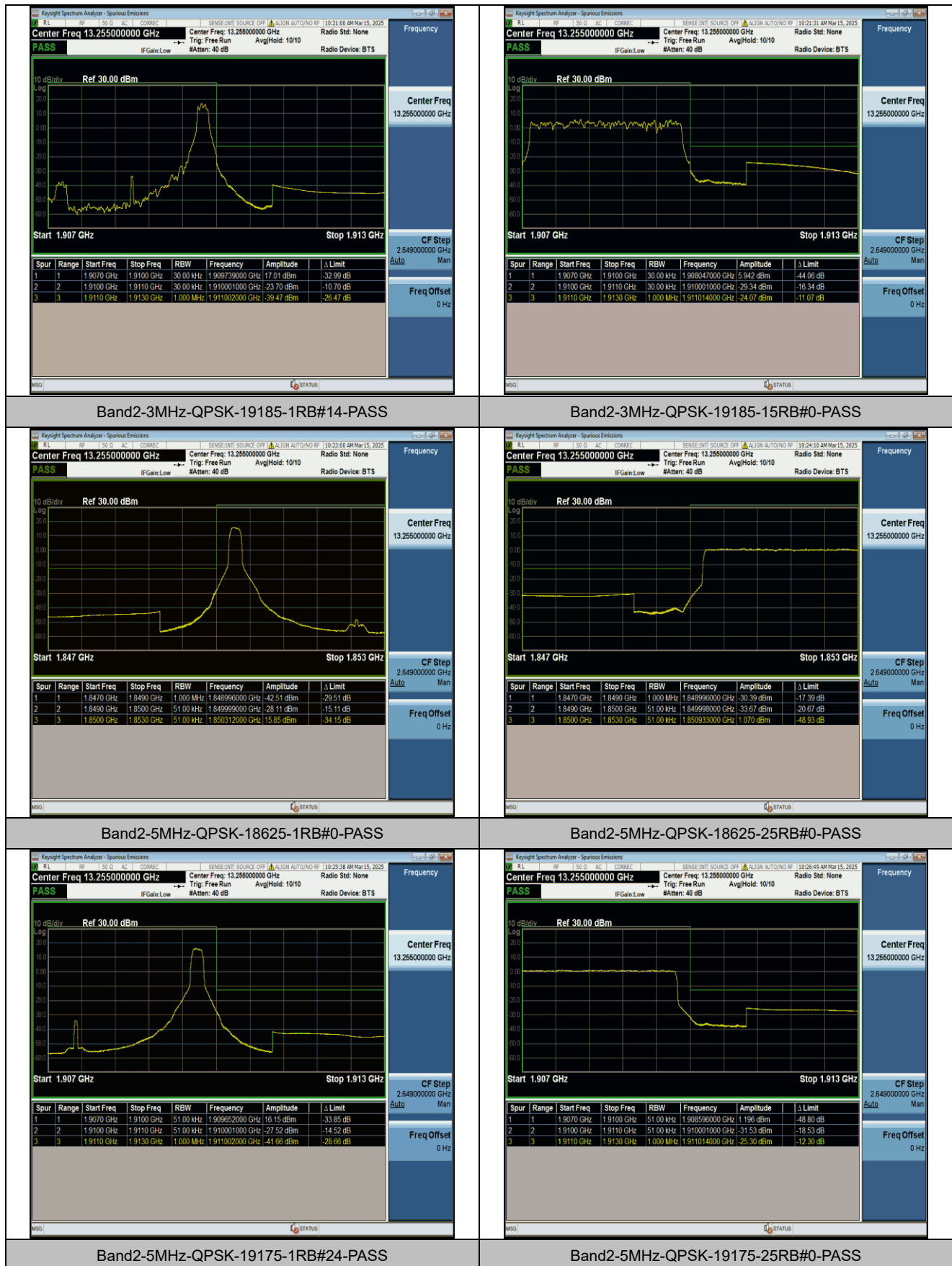


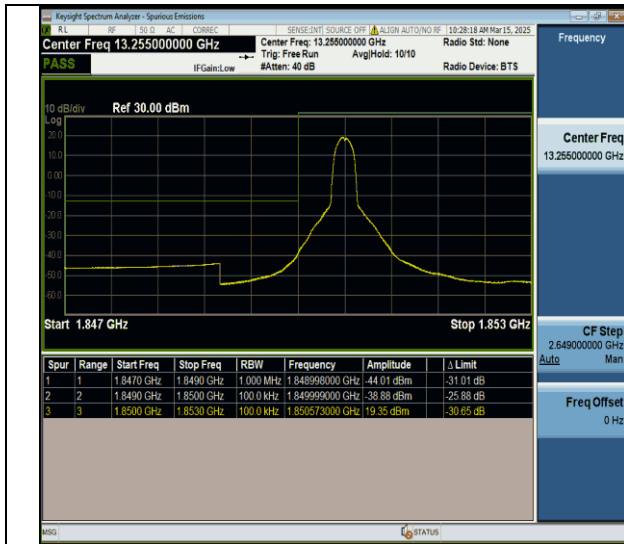


Band Edge

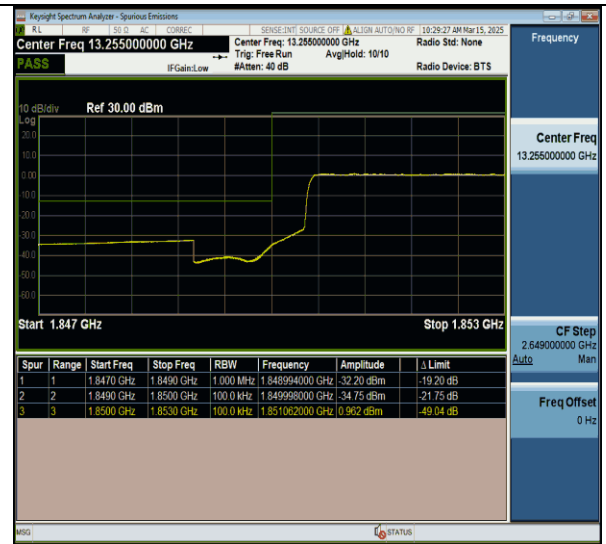
Test Graphs



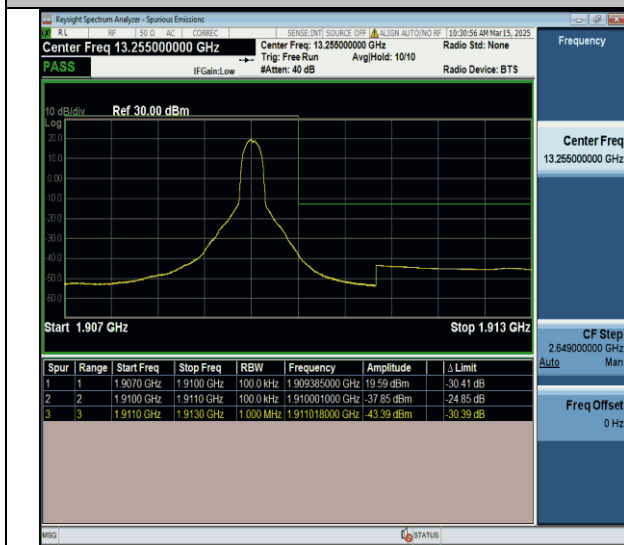




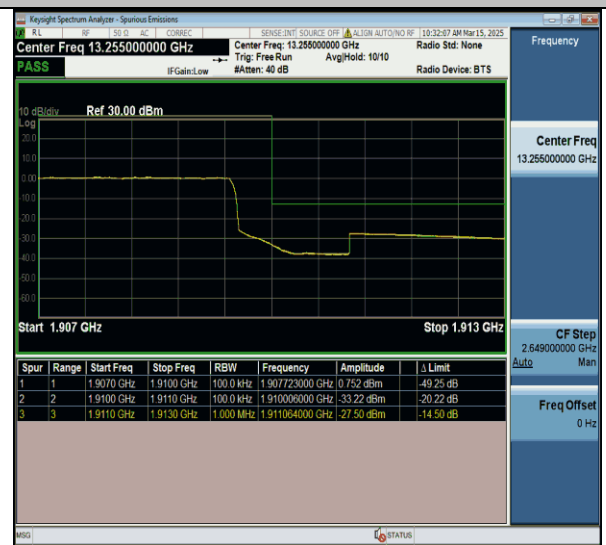
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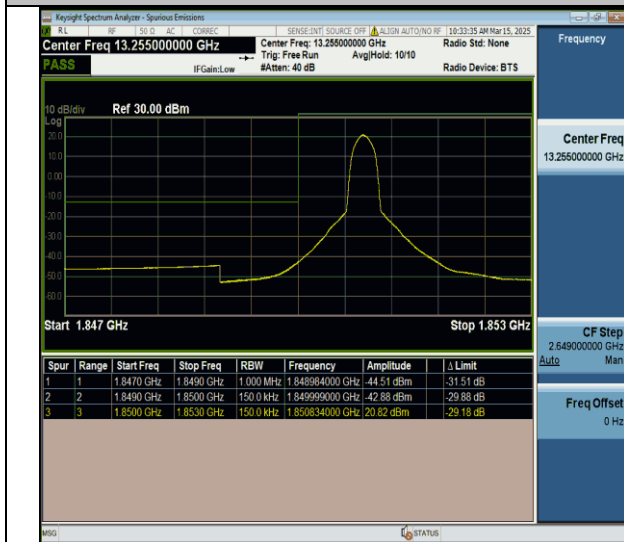
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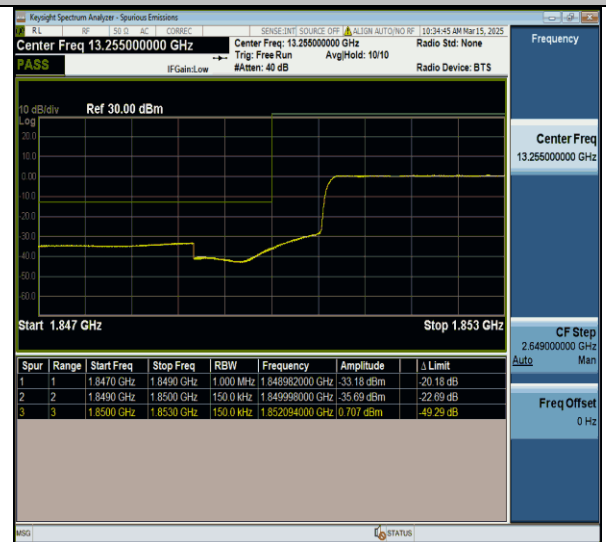
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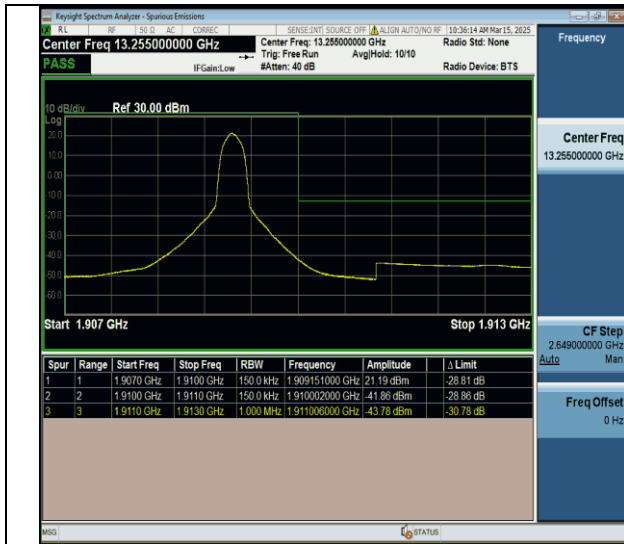
Band2-10MHz-QPSK-19150-50RB#0-PASS



Band2-15MHz-QPSK-18675-1RB#0-PASS



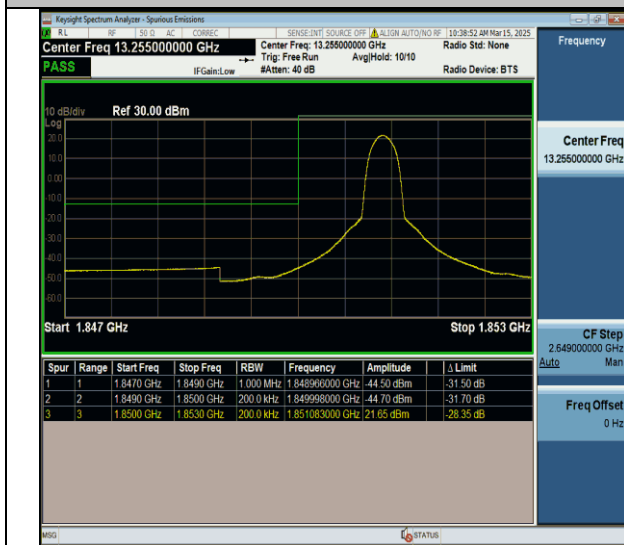
Band2-15MHz-QPSK-18675-75RB#0-PASS



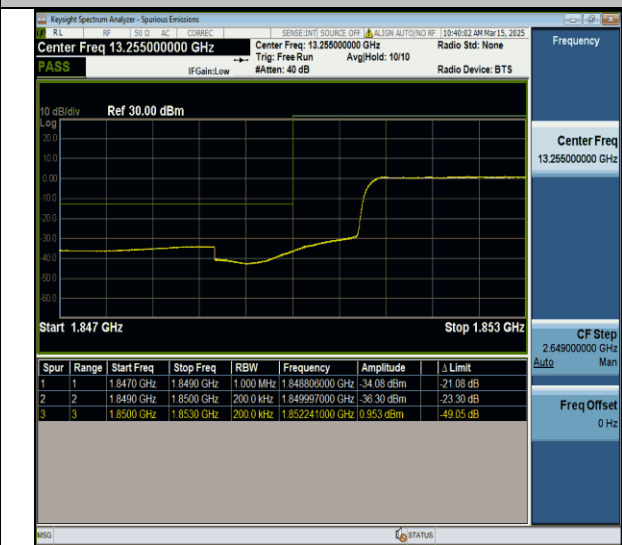
Band2-15MHz-QPSK-19125-1RB#74-PASS



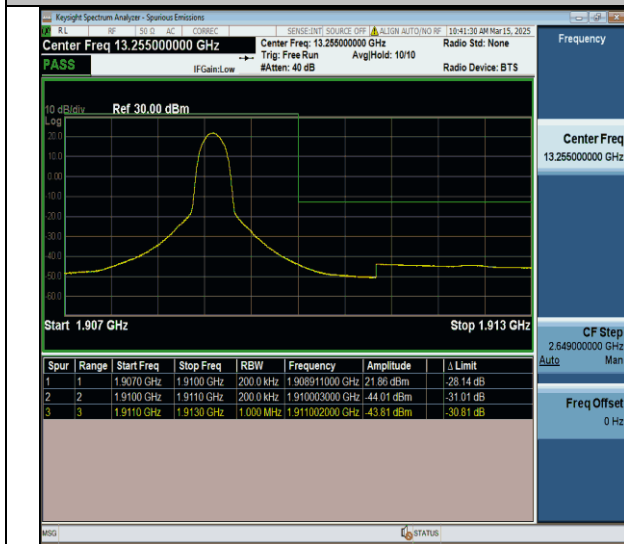
Band2-15MHz-QPSK-19125-75RB#0-PASS



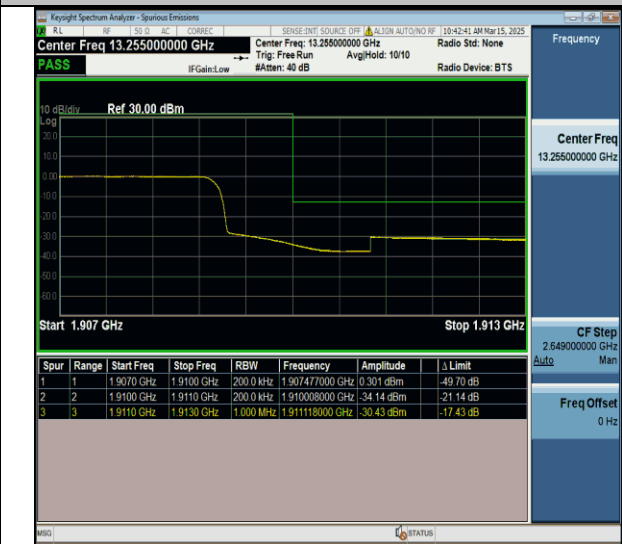
Band2-20MHz-QPSK-18700-1RB#0-PASS



Band2-20MHz-QPSK-18700-100RB#0-PASS



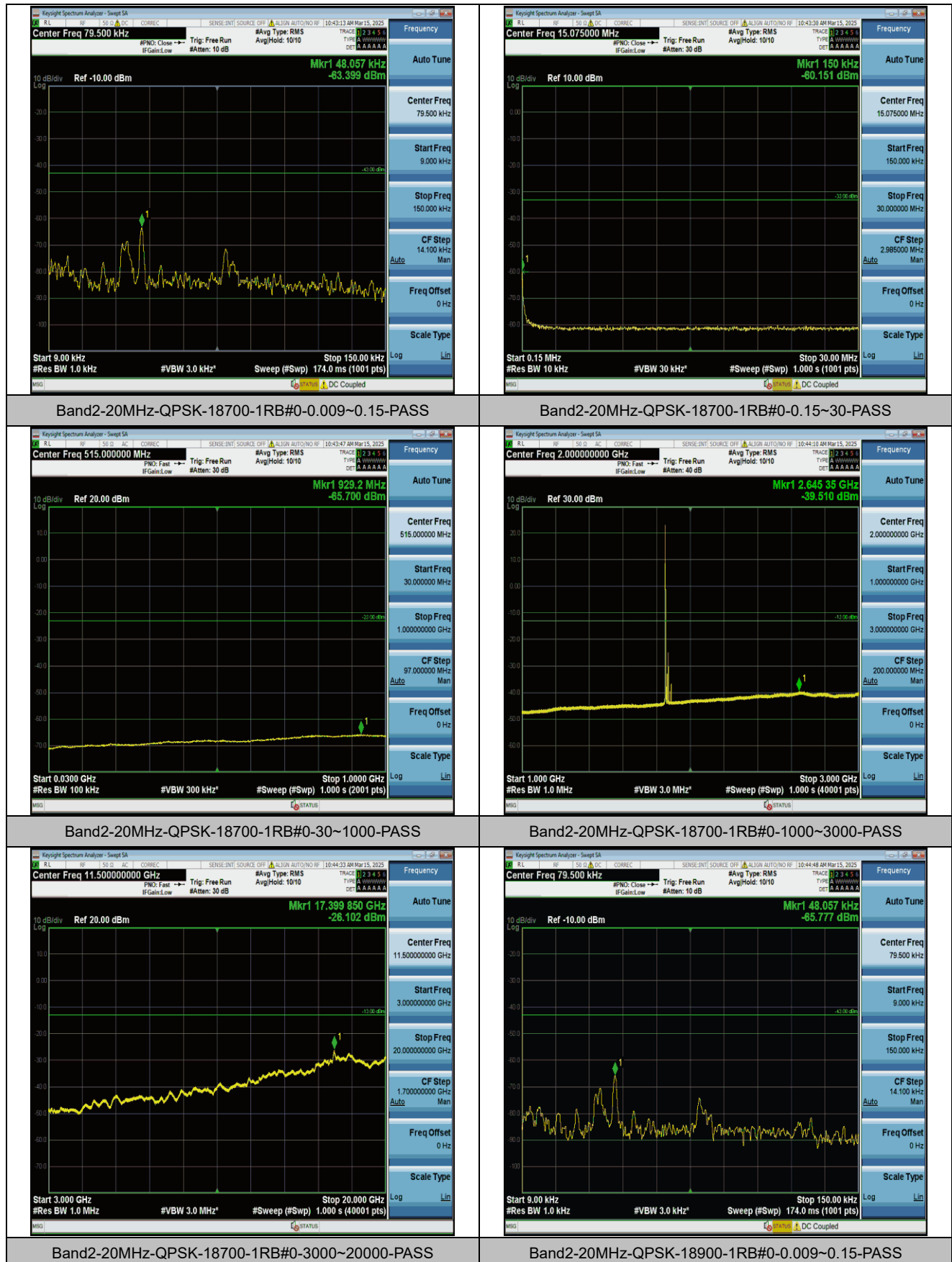
Band2-20MHz-QPSK-19100-1RB#99-PASS

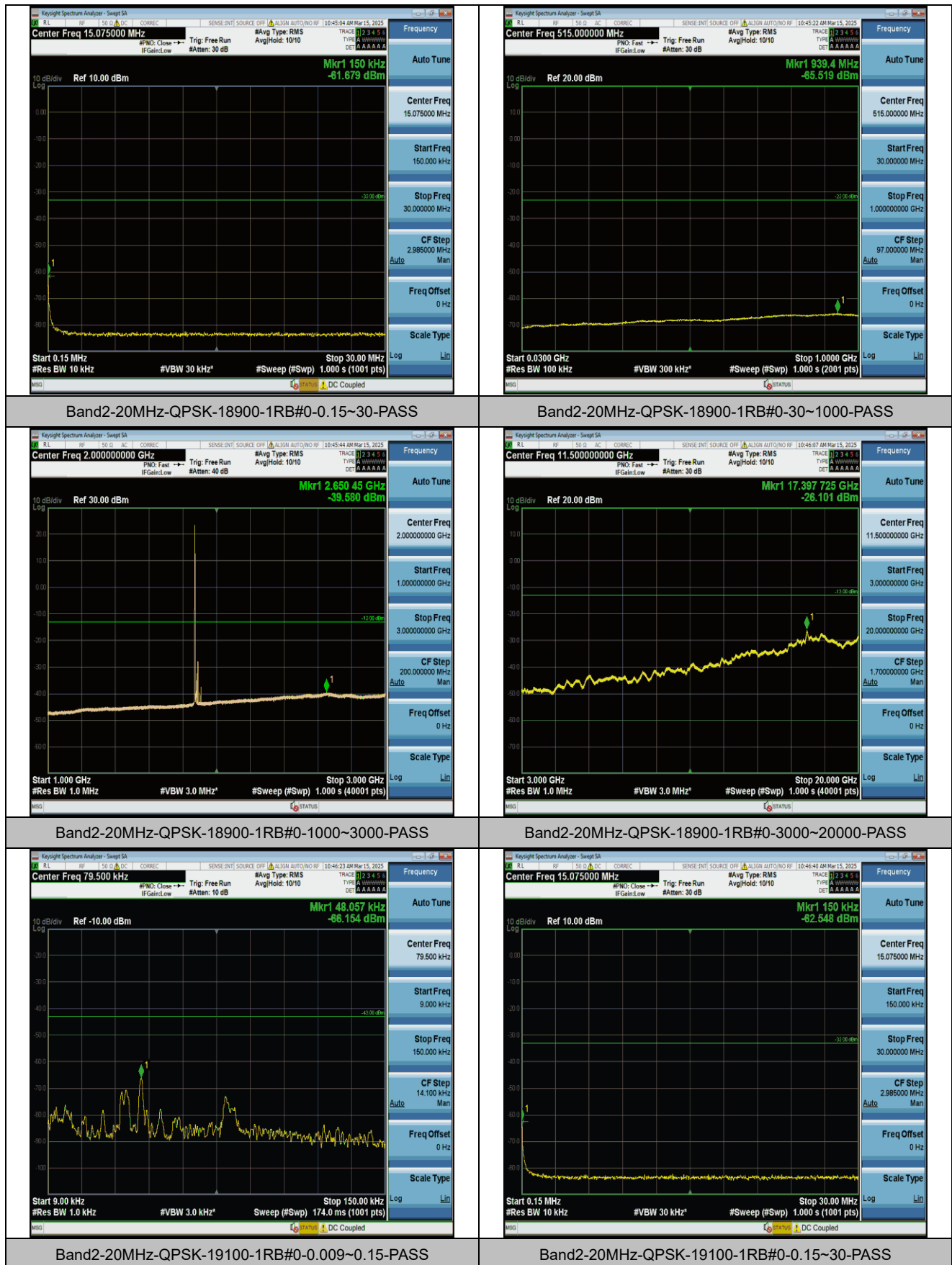


Band2-20MHz-QPSK-19100-100RB#0-PASS

Conducted Spurious Emission

Test Graphs







Band2-20MHz-QPSK-19100-1RB#0-30~1000-PASS



Band2-20MHz-QPSK-19100-1RB#0-1000~3000-PASS



Band2-20MHz-QPSK-19100-1RB#0-3000~20000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	11.00	0.005851	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	10.80	0.005745	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	7.40	0.003936	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-2.60	-0.001383	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-4.20	-0.002234	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	13.90	0.007394	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	10.70	0.005691	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	5.90	0.003138	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	10.90	0.005798	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	3.20	0.001702	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	3.70	0.001968	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	8.60	0.004574	PASS

~The End~