

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	22.65	25.65	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.46	25.46	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.4	25.4	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.68	24.68	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.72	24.72	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.12	25.12	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.1	25.1	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.16	24.16	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.62	25.62	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.89	25.89	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.94	25.94	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.03	25.03	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.63	24.63	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.6	24.6	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.12	25.12	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.24	24.24	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.15	25.15	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.43	25.43	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.58	25.58	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.86	24.86	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.28	24.28	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.42	24.42	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.66	24.66	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.76	23.76	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.53	25.53	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.6	25.6	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.71	25.71	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.86	24.86	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.54	24.54	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.05	25.05	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.84	24.84	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.27	24.27	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.76	25.76	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.02	26.02	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.79	25.79	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.1	25.1	33	PASS

Band2	3MHz	16QAM	18900	1RB#0	21.73	24.73	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.63	24.63	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.16	25.16	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.15	24.15	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.35	25.35	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.67	25.67	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.7	25.7	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.68	24.68	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.19	24.19	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.58	24.58	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.57	24.57	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.8	23.8	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.49	25.49	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.87	25.87	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.22	26.22	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.31	25.31	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	22	25	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.02	25.02	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.36	25.36	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.46	24.46	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.25	26.25	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.22	26.22	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.5	26.5	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.57	25.57	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.49	24.49	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.69	24.69	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.14	25.14	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.27	24.27	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.8	25.8	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.58	25.58	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.87	25.87	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.77	24.77	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.44	24.44	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.59	24.59	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.19	25.19	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.92	23.92	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.66	25.66	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.96	25.96	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.91	25.91	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.23	25.23	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.86	24.86	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.42	25.42	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.03	25.03	33	PASS
Band2	10MHz	16QAM	18650	27RB#0	21.37	24.37	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.1	26.1	33	PASS

Band2	10MHz	QPSK	18900	1RB#24	23.2	26.2	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.23	26.23	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.55	25.55	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.83	24.83	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.76	24.76	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.35	25.35	33	PASS
Band2	10MHz	16QAM	18900	27RB#0	21.2	24.2	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.19	26.19	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.62	25.62	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.85	25.85	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.84	24.84	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.19	24.19	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.35	24.35	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.76	24.76	33	PASS
Band2	10MHz	16QAM	19150	27RB#0	20.92	23.92	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.57	25.57	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.78	25.78	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.55	25.55	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.06	25.06	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.92	24.92	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.83	24.83	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.94	24.94	33	PASS
Band2	15MHz	16QAM	18675	27RB#0	21.36	24.36	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.82	25.82	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.2	26.2	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.11	26.11	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.49	25.49	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.74	24.74	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.16	25.16	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.01	25.01	33	PASS
Band2	15MHz	16QAM	18900	27RB#0	21.12	24.12	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.16	26.16	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.87	25.87	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.52	25.52	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.91	24.91	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.36	24.36	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.67	24.67	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.45	24.45	33	PASS
Band2	15MHz	16QAM	19125	27RB#0	21.08	24.08	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.56	25.56	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.77	25.77	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.84	25.84	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.23	25.23	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.12	25.12	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.02	25.02	33	PASS

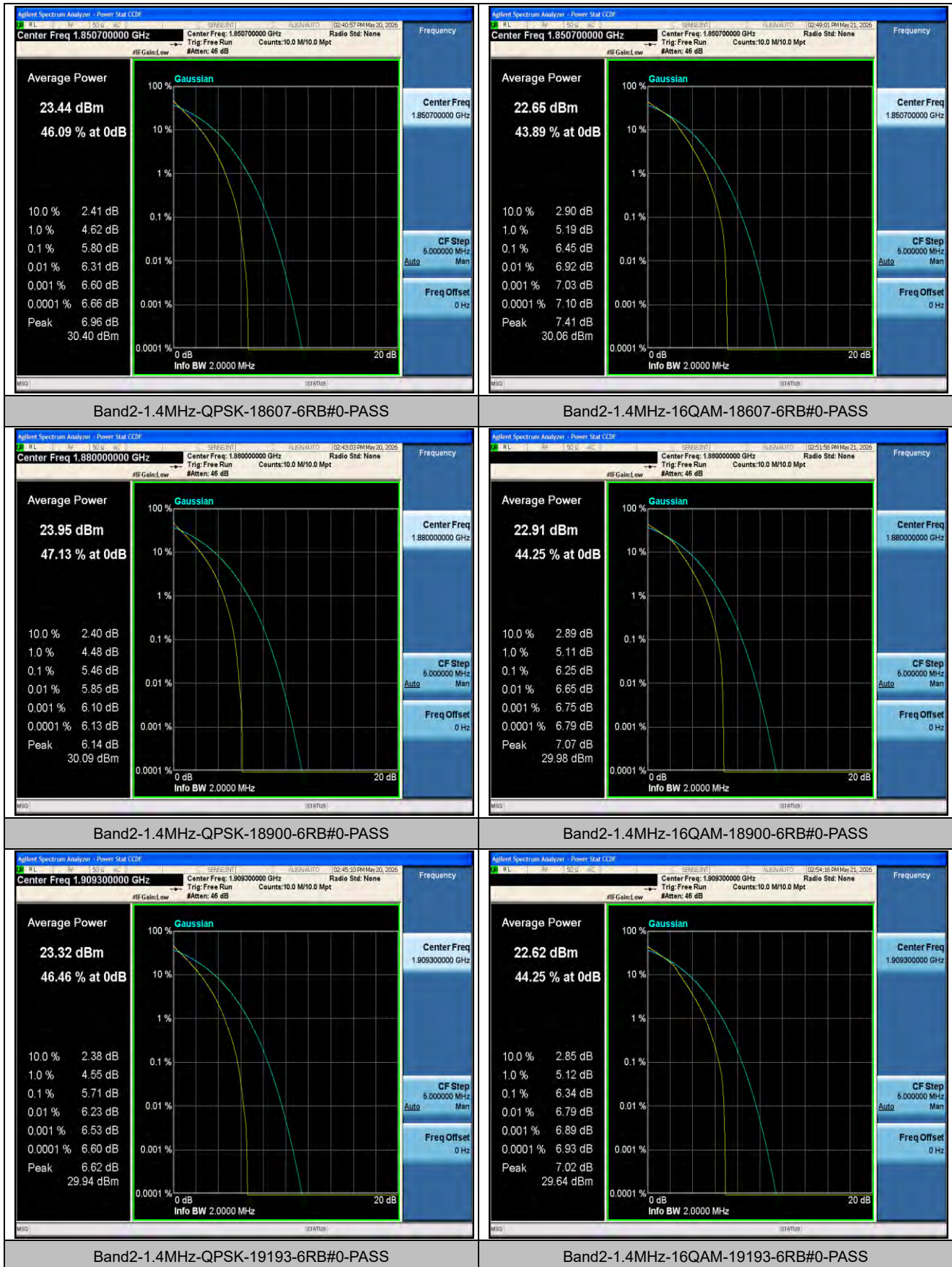
Band2	20MHz	16QAM	18700	1RB#99	21.9	24.9	33	PASS
Band2	20MHz	16QAM	18700	27RB#0	21.13	24.13	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.91	25.91	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.32	26.32	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.18	26.18	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.44	25.44	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.66	24.66	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.89	24.89	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.08	25.08	33	PASS
Band2	20MHz	16QAM	18900	27RB#0	20.97	23.97	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.38	26.38	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.19	26.19	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.47	25.47	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.13	25.13	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.49	24.49	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.11	25.11	33	PASS
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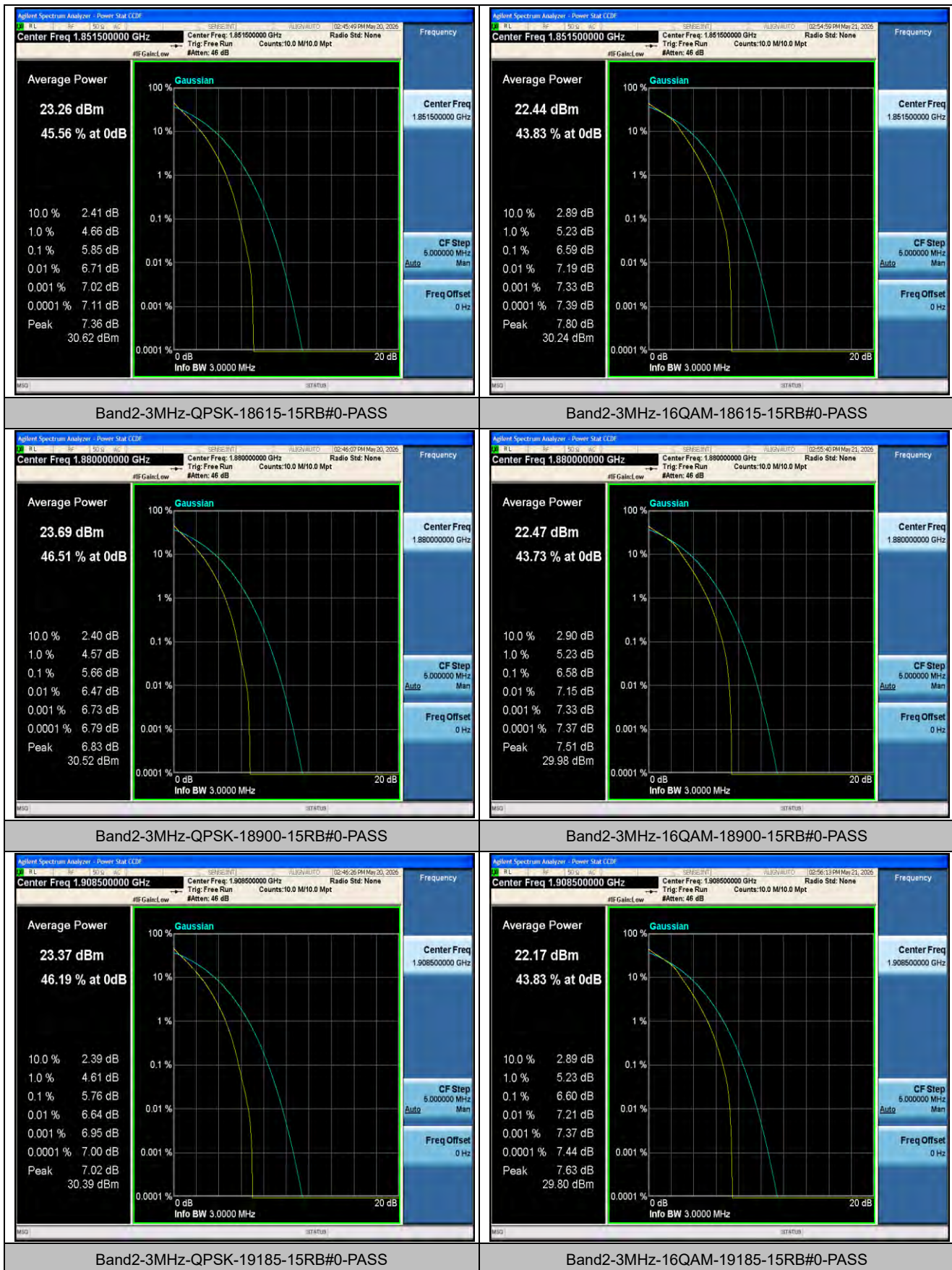
Peak-to-Average Ratio(CCDF)

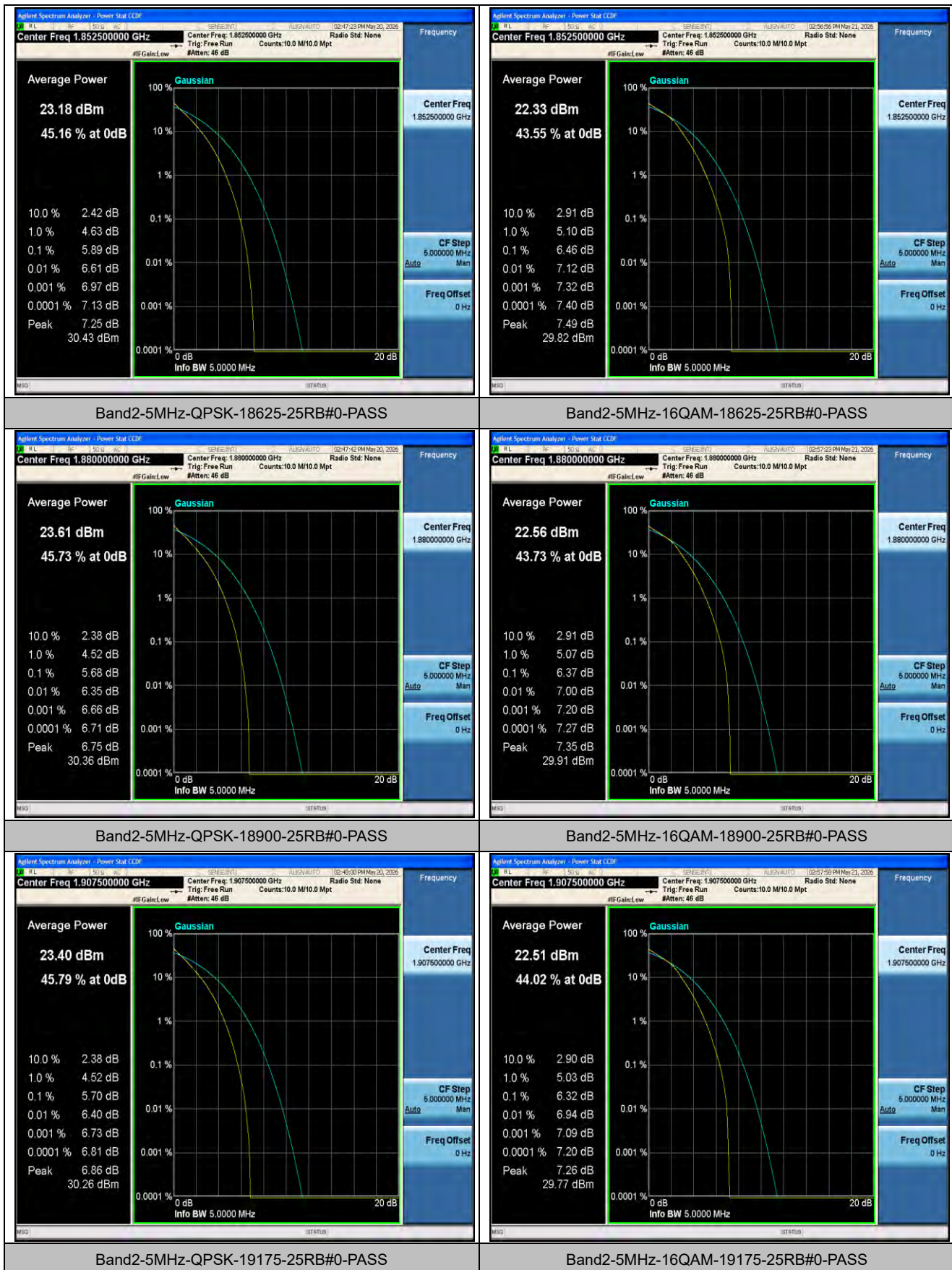
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	5.80	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	6.45	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	5.46	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.25	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	5.71	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	6.34	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	5.85	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	6.59	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.66	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.58	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	5.76	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	6.60	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	5.89	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	6.46	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.68	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.37	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	5.70	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	6.32	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.83	13	PASS
Band2	10MHz	16QAM	18650	27RB#0	6.50	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.65	13	PASS
Band2	10MHz	16QAM	18900	27RB#0	6.42	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.62	13	PASS
Band2	10MHz	16QAM	19150	27RB#0	6.23	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.30	13	PASS
Band2	15MHz	16QAM	18675	27RB#0	6.40	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.19	13	PASS
Band2	15MHz	16QAM	18900	27RB#0	6.35	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.08	13	PASS
Band2	15MHz	16QAM	19125	27RB#0	6.19	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.64	13	PASS
Band2	20MHz	16QAM	18700	27RB#0	6.60	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.49	13	PASS
Band2	20MHz	16QAM	18900	27RB#0	6.55	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.32	13	PASS
Band2	20MHz	16QAM	19100	27RB#0	6.24	13	PASS

Test Graphs









Band2-10MHz-QPSK-18650-50RB#0-PASS



Band2-10MHz-16QAM-18650-27RB#0-PASS



Band2-10MHz-QPSK-18900-50RB#0-PASS



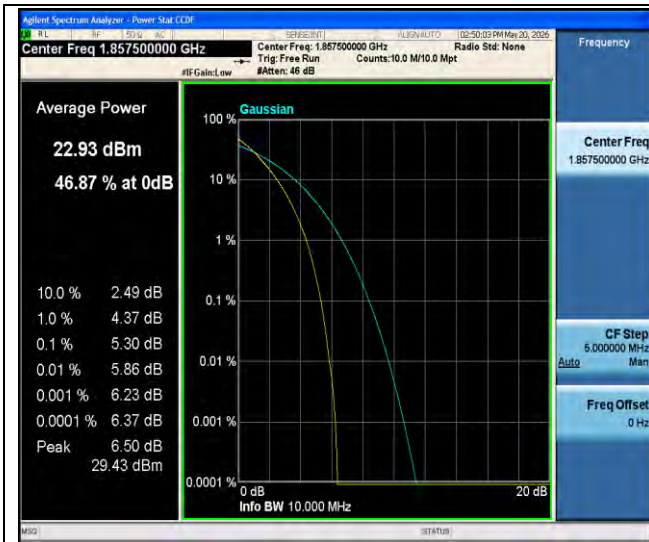
Band2-10MHz-16QAM-18900-27RB#0-PASS



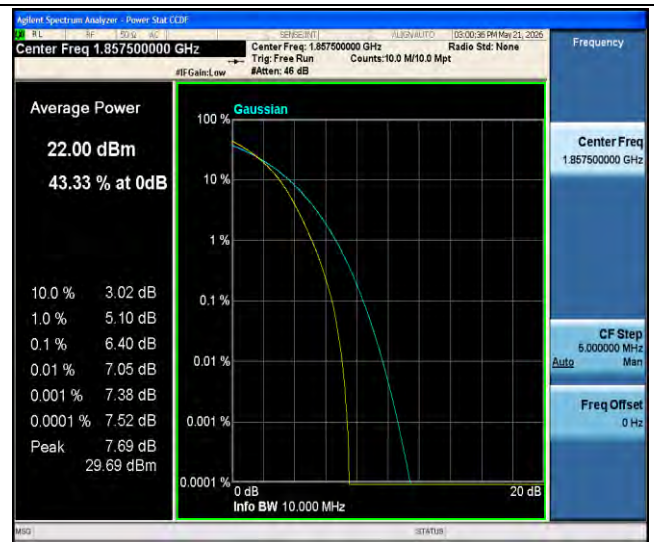
Band2-10MHz-QPSK-19150-50RB#0-PASS



Band2-10MHz-16QAM-19150-27RB#0-PASS



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



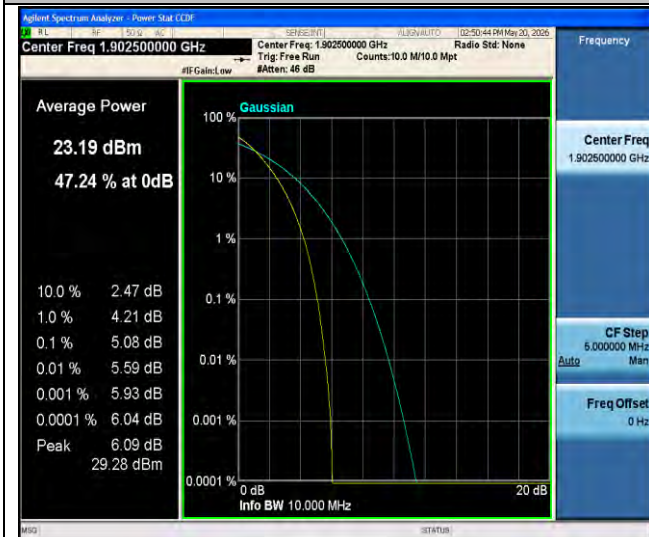
Band2-15MHz-16QAM-18675-27RB#0-PASS



Band2-15MHz-QPSK-18900-75RB#0-PASS



Band2-15MHz-16QAM-18900-27RB#0-PASS



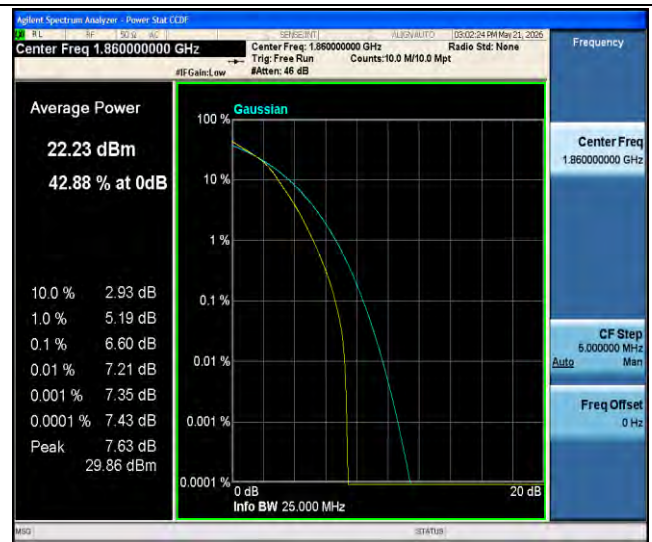
Band2-15MHz-QPSK-19125-75RB#0-PASS



Band2-15MHz-16QAM-19125-27RB#0-PASS



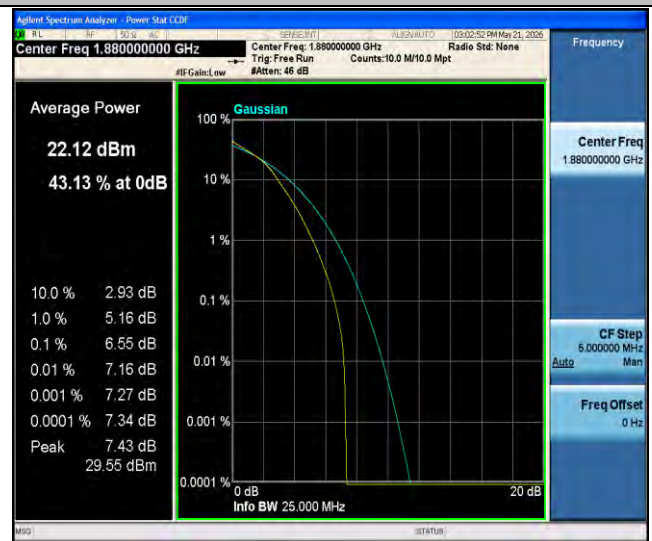
Band2-20MHz-QPSK-18700-100RB#0-PASS



Band2-20MHz-16QAM-18700-27RB#0-PASS



Band2-20MHz-QPSK-18900-100RB#0-PASS



Band2-20MHz-16QAM-18900-27RB#0-PASS



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



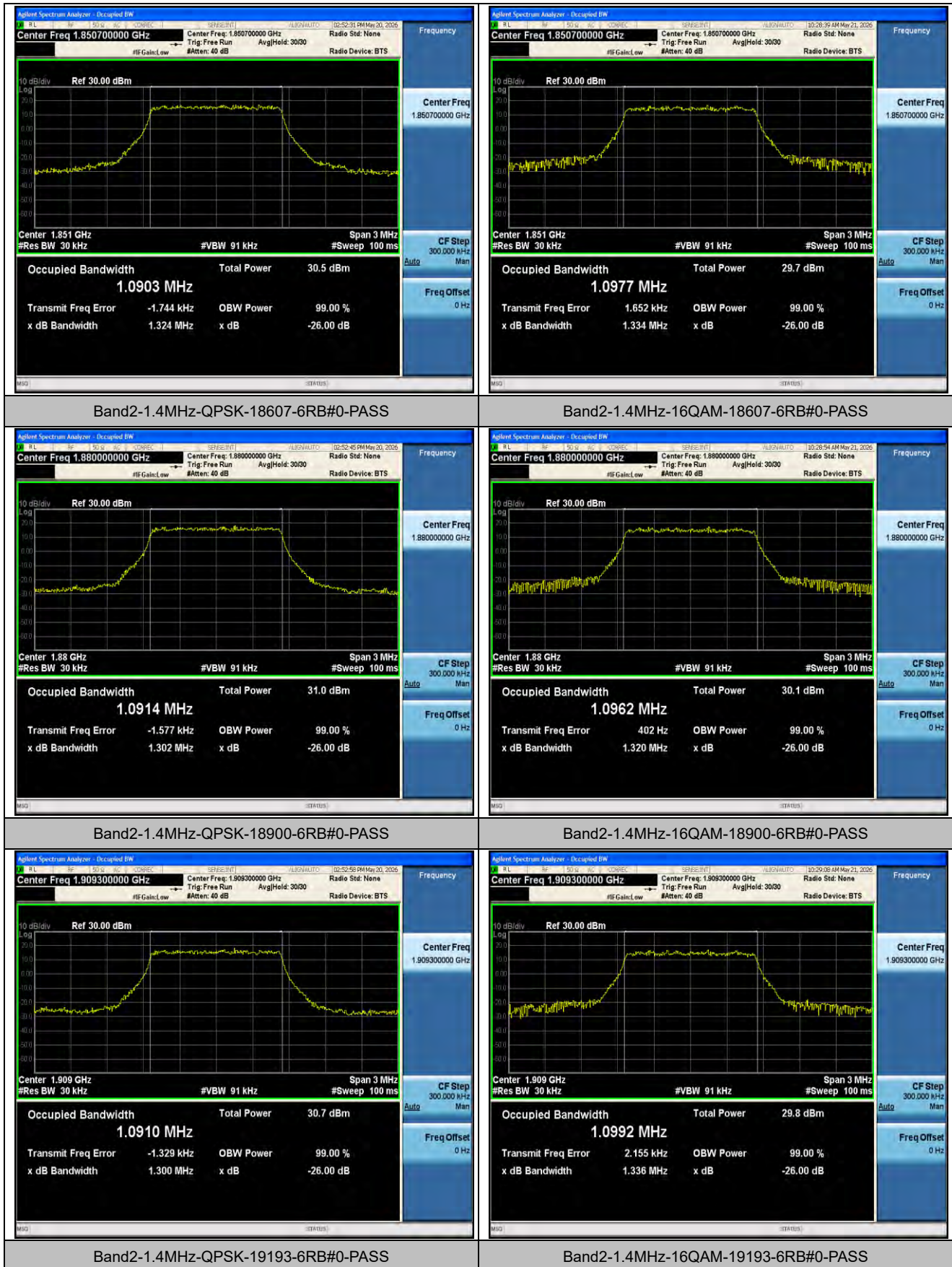
Band2-20MHz-16QAM-19100-27RB#0-PASS

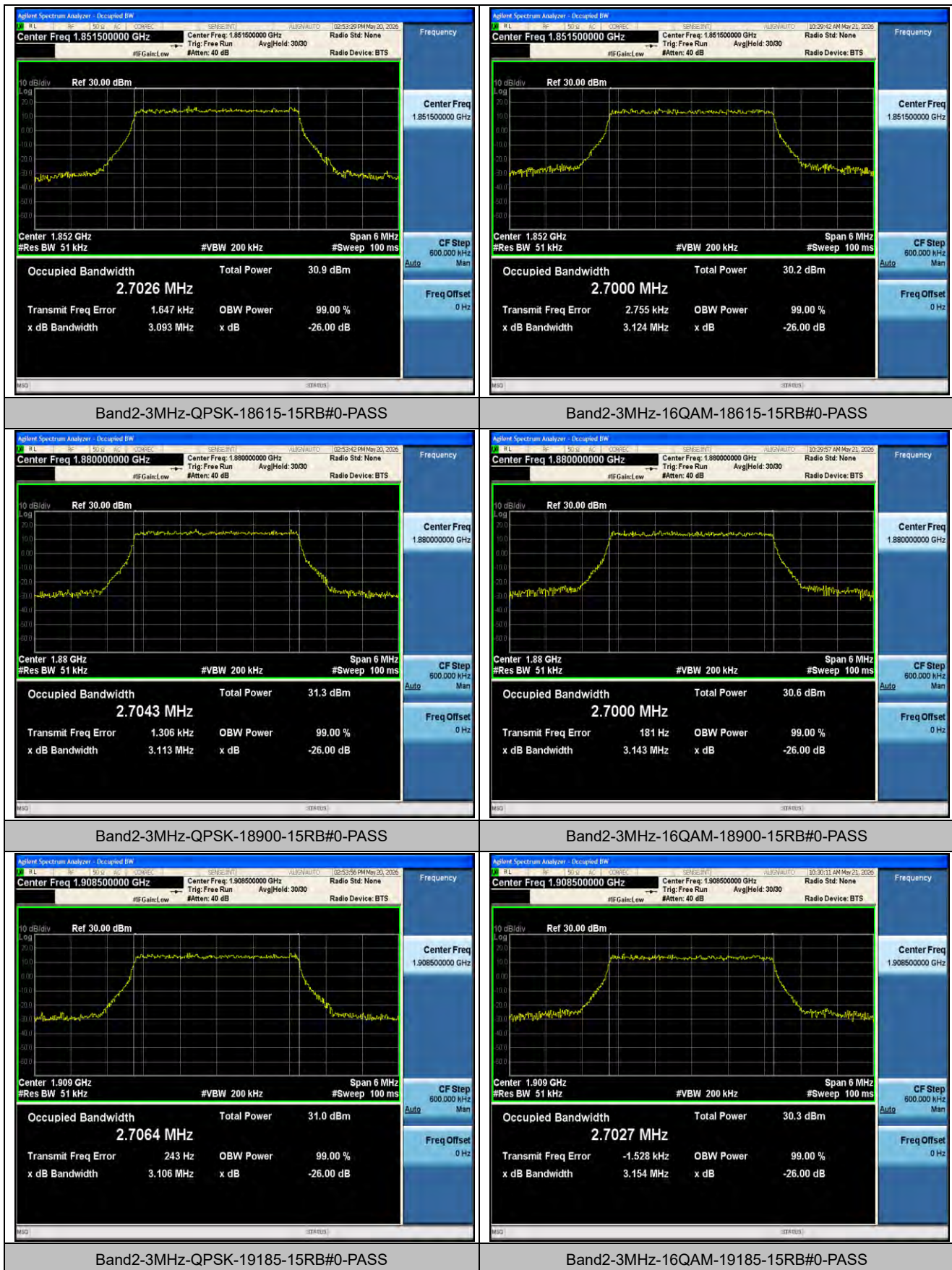
26dB Bandwidth and Occupied Bandwidth

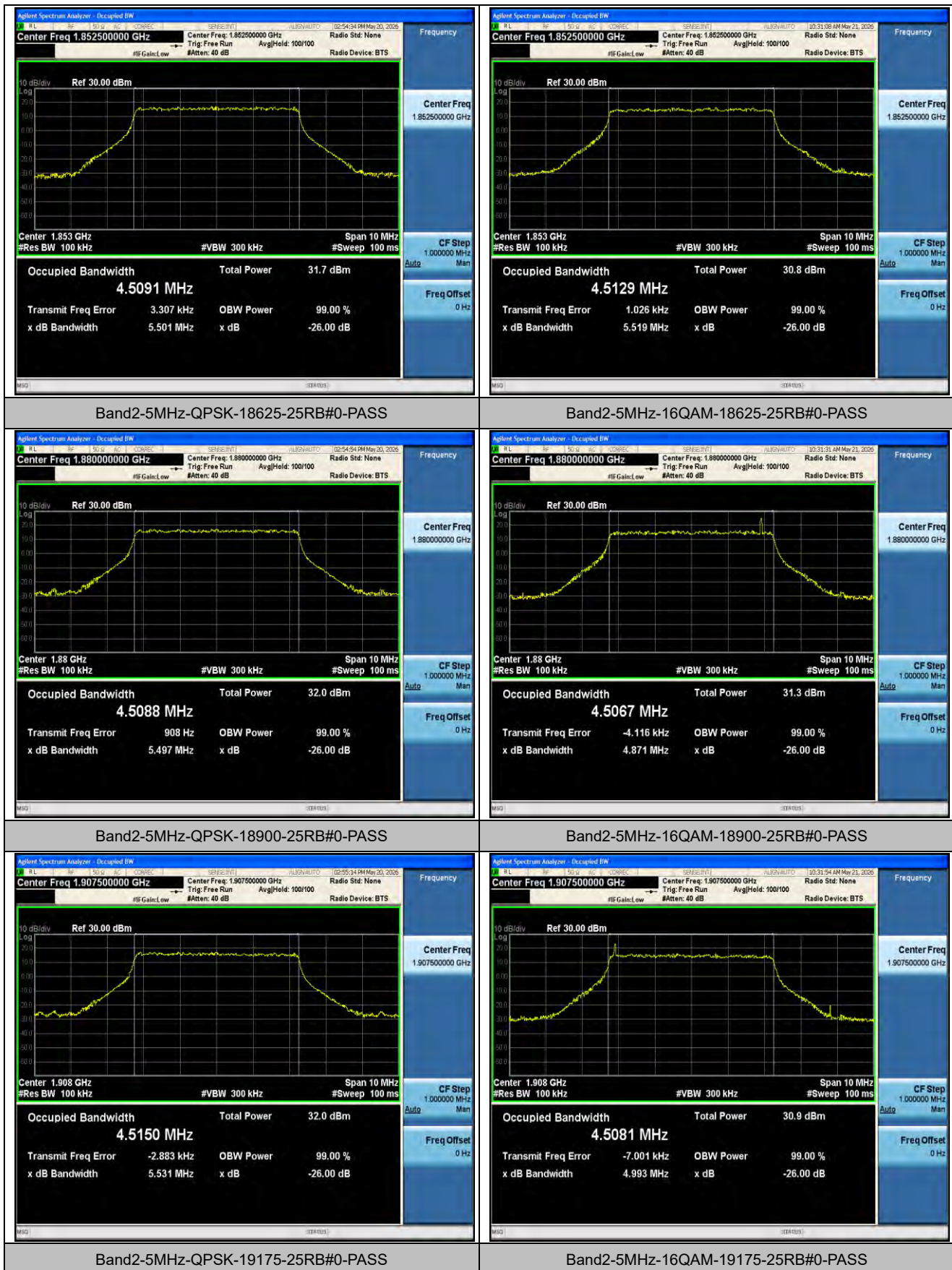
Test Result

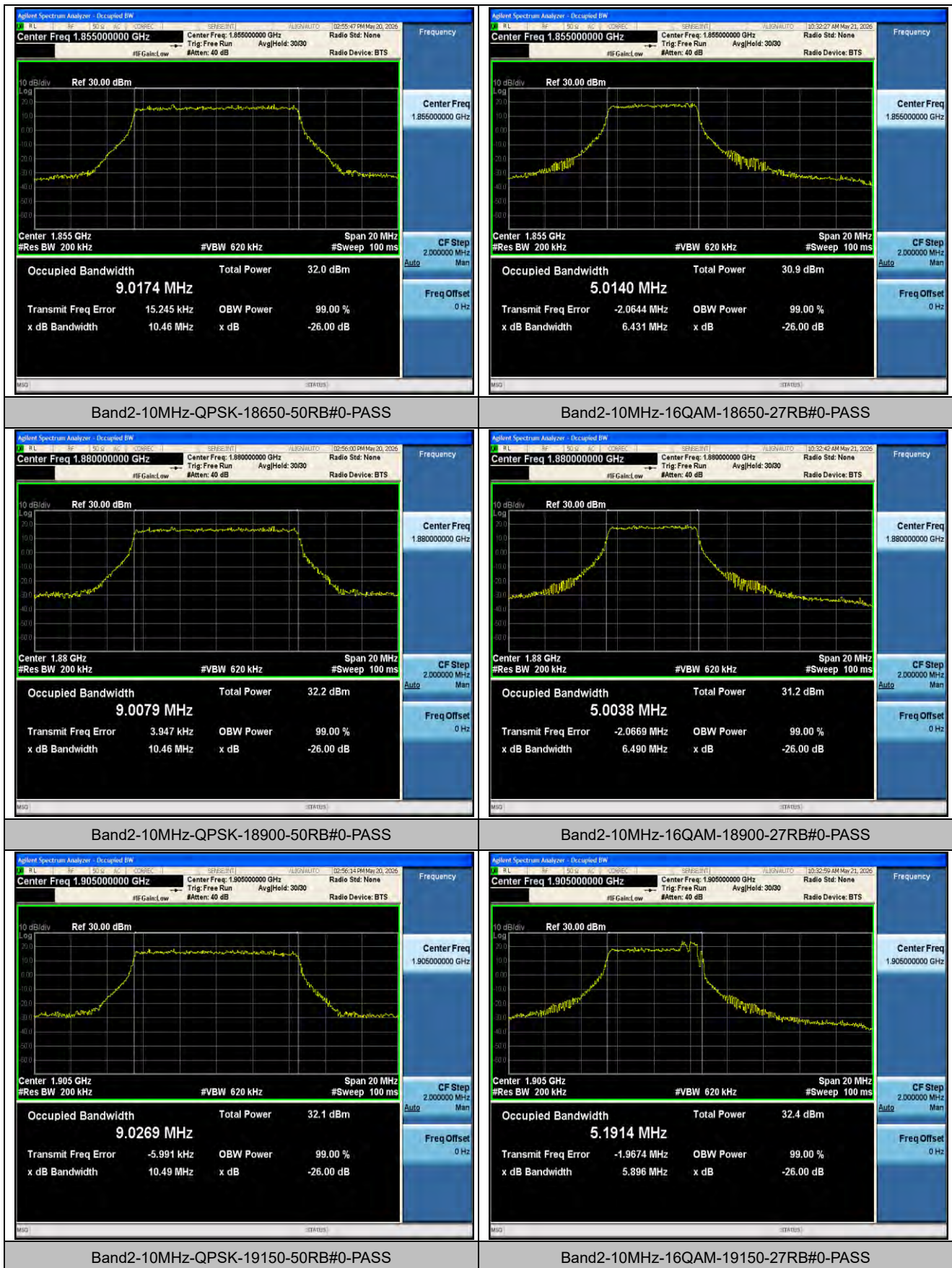
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0903	1.324	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0977	1.334	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0914	1.302	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0962	1.320	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0910	1.300	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0992	1.336	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.7026	3.093	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.7000	3.124	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.7043	3.113	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.7000	3.143	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.7064	3.106	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.7027	3.154	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.5091	5.501	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.5129	5.519	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.5088	5.497	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.5067	4.871	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.5150	5.531	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.5081	4.993	PASS
Band2	10MHz	QPSK	18650	50RB#0	9.0174	10.46	PASS
Band2	10MHz	16QAM	18650	27RB#0	5.0140	6.431	PASS
Band2	10MHz	QPSK	18900	50RB#0	9.0079	10.46	PASS
Band2	10MHz	16QAM	18900	27RB#0	5.0038	6.490	PASS
Band2	10MHz	QPSK	19150	50RB#0	9.0269	10.49	PASS
Band2	10MHz	16QAM	19150	27RB#0	5.1914	5.896	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.479	15.88	PASS
Band2	15MHz	16QAM	18675	27RB#0	5.3934	7.701	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.481	15.79	PASS
Band2	15MHz	16QAM	18900	27RB#0	5.3529	7.638	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.465	15.61	PASS
Band2	15MHz	16QAM	19125	27RB#0	5.3589	7.616	PASS
Band2	20MHz	QPSK	18700	100RB#0	18.002	20.51	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.4863	7.819	PASS
Band2	20MHz	QPSK	18900	100RB#0	18.006	20.48	PASS
Band2	20MHz	16QAM	18900	27RB#0	5.4965	7.930	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.985	20.45	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.5845	8.005	PASS

Test Graphs







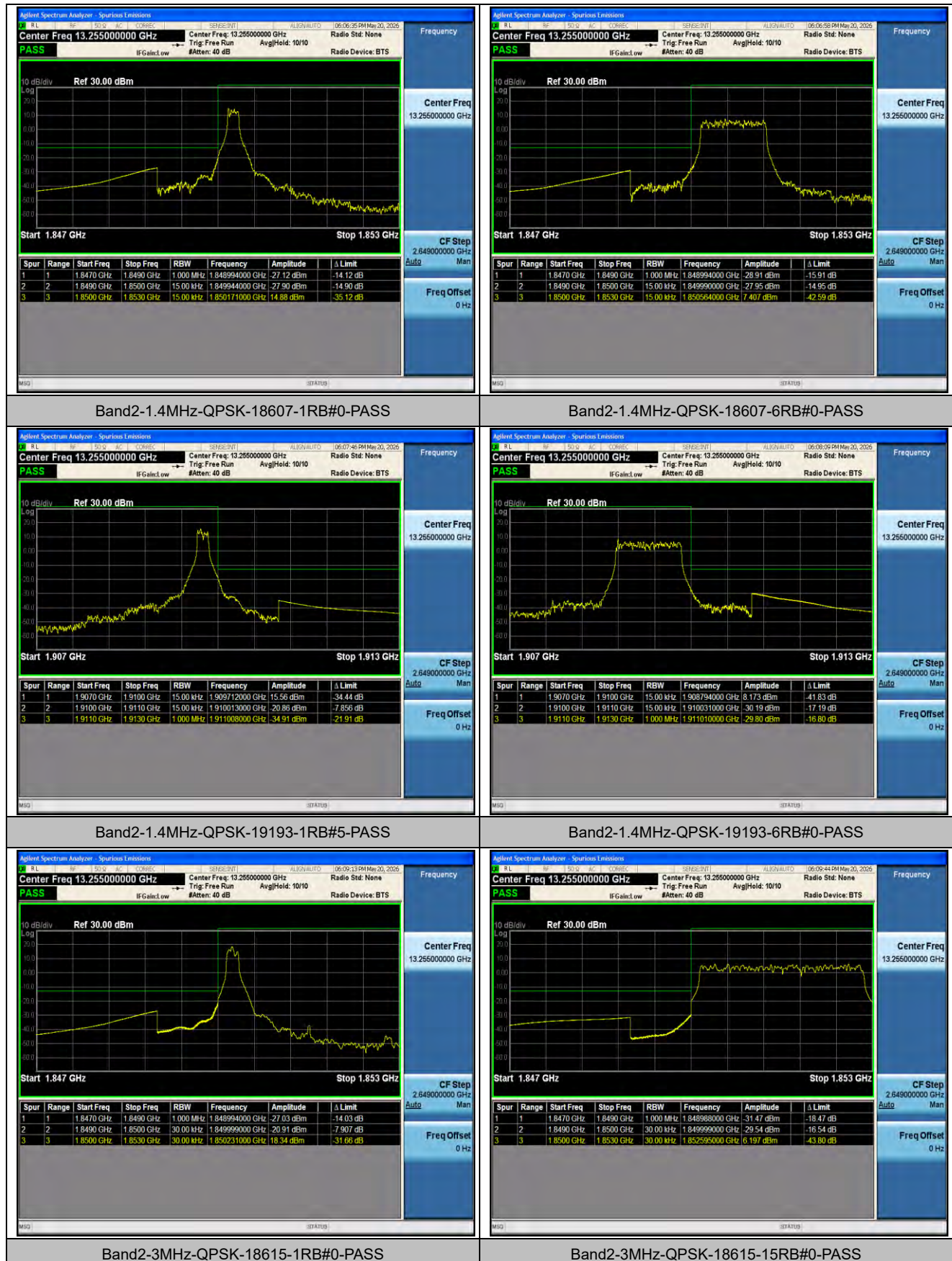






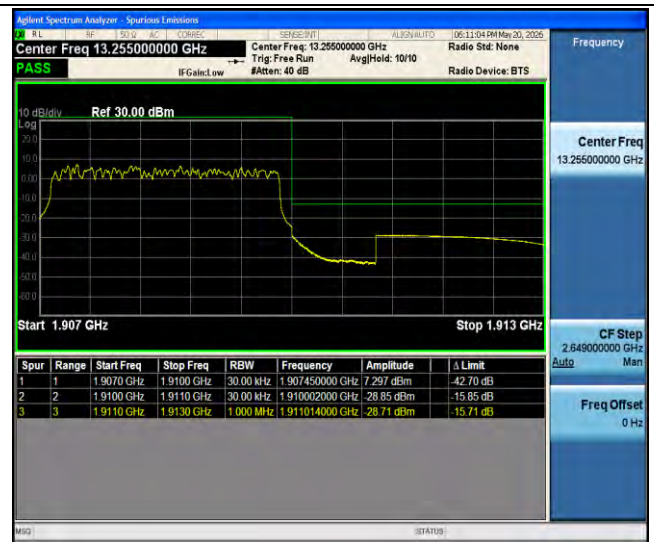
Band Edge

Test Graphs





Band2-3MHz-QPSK-19185-1RB#14-PASS



Band2-3MHz-QPSK-19185-15RB#0-PASS



Band2-5MHz-QPSK-18625-1RB#0-PASS



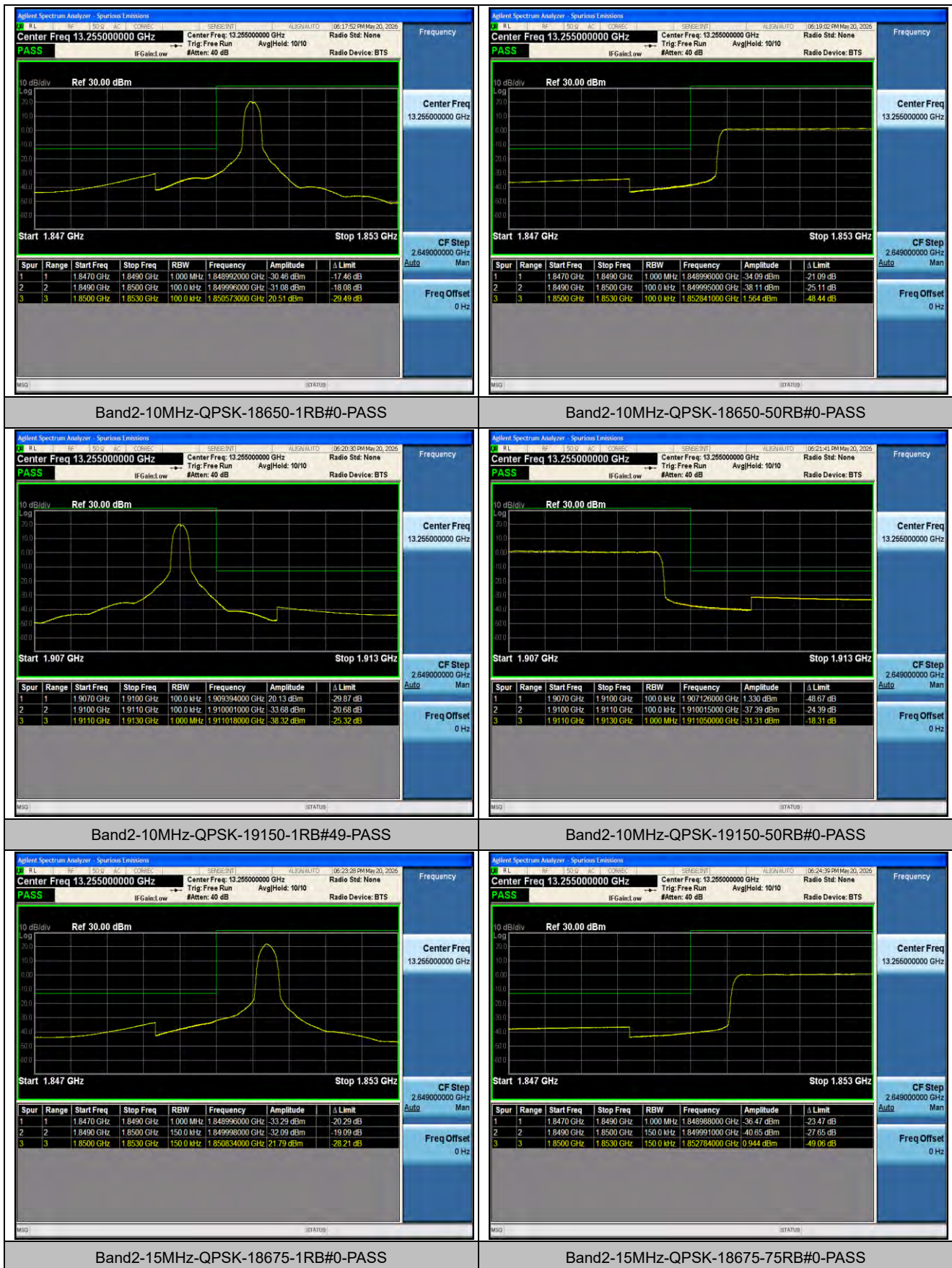
Band2-5MHz-QPSK-18625-25RB#0-PASS



Band2-5MHz-QPSK-19175-1RB#24-PASS

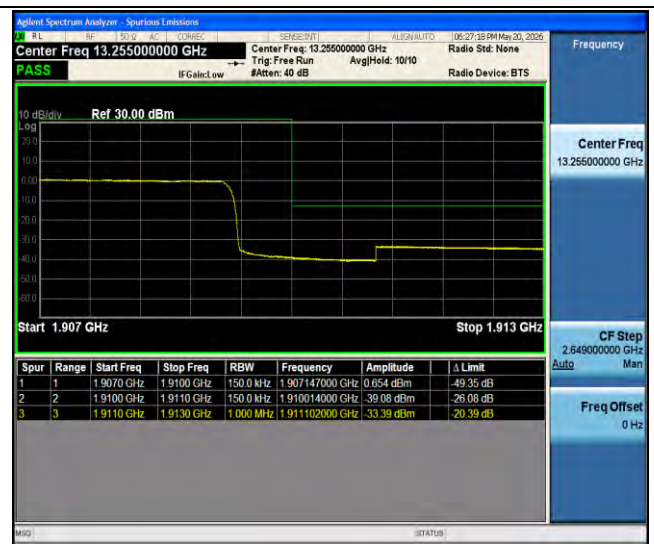


Band2-5MHz-QPSK-19175-25RB#0-PASS

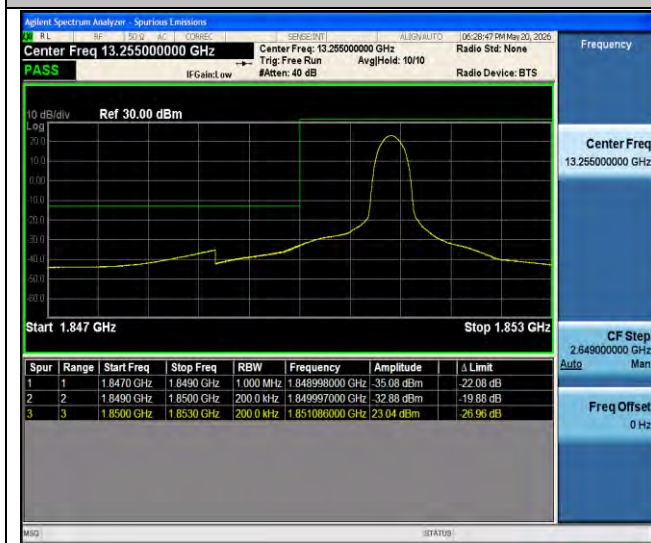




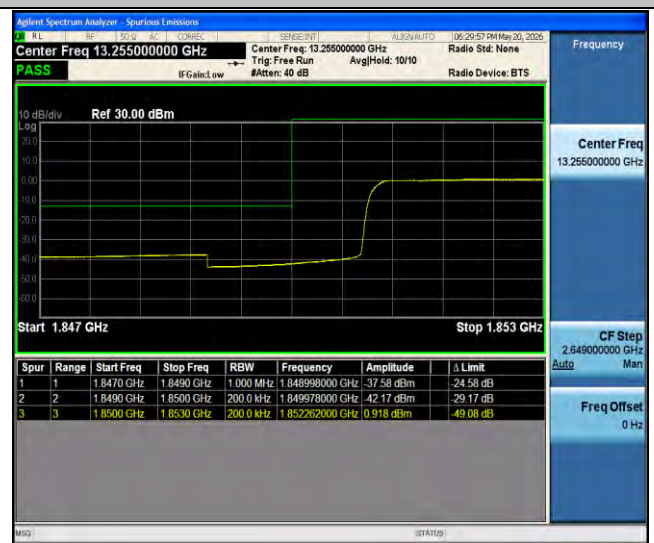
Band2-15MHz-QPSK-19125-1RB#74-PASS



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



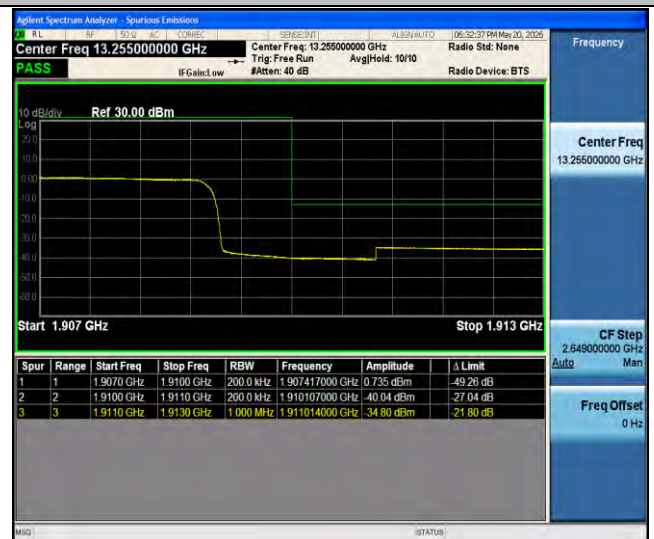
Band2-20MHz-QPSK-18700-1RB#0-PASS



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



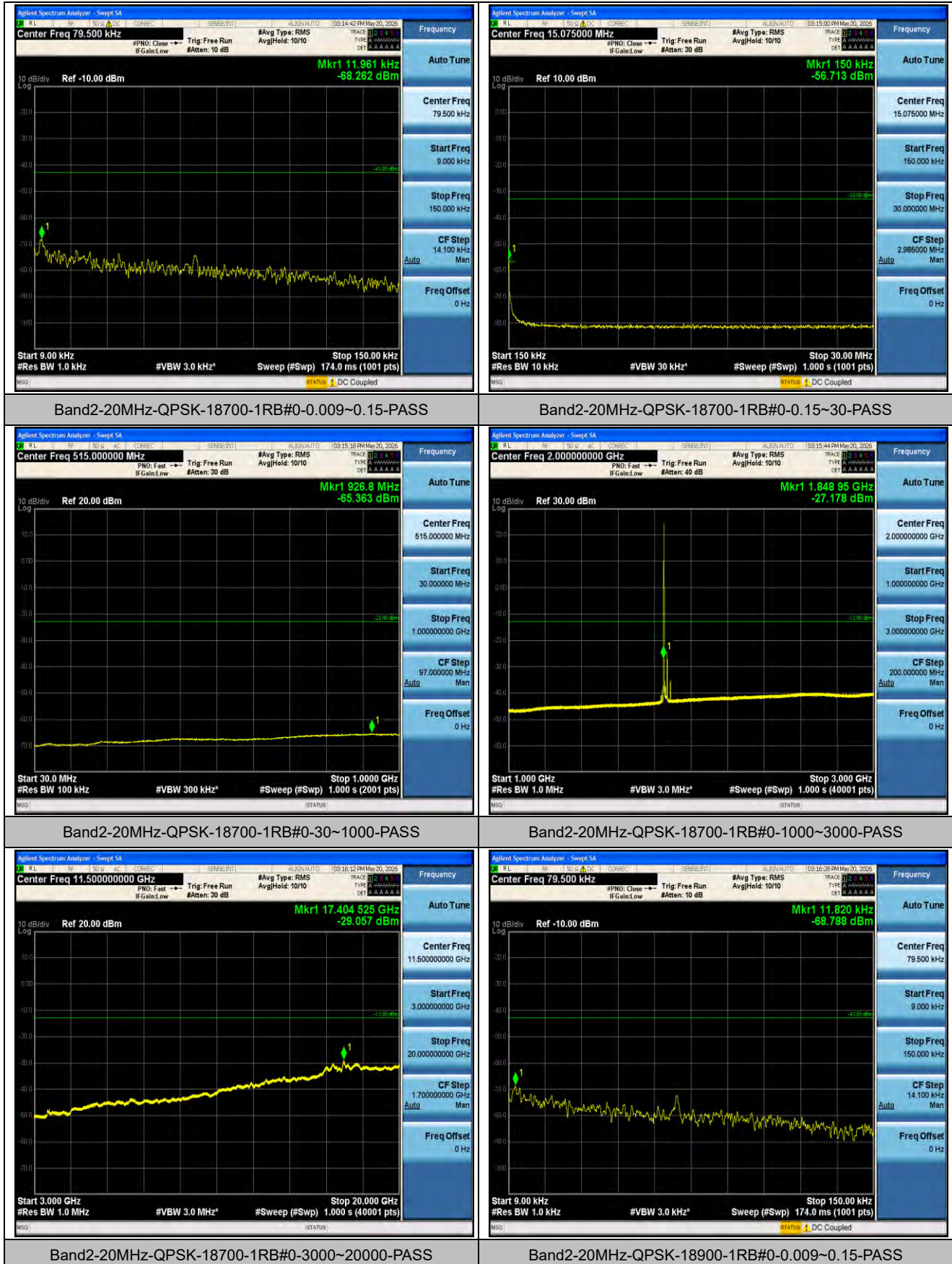
Band2-20MHz-QPSK-19100-1RB#99-PASS

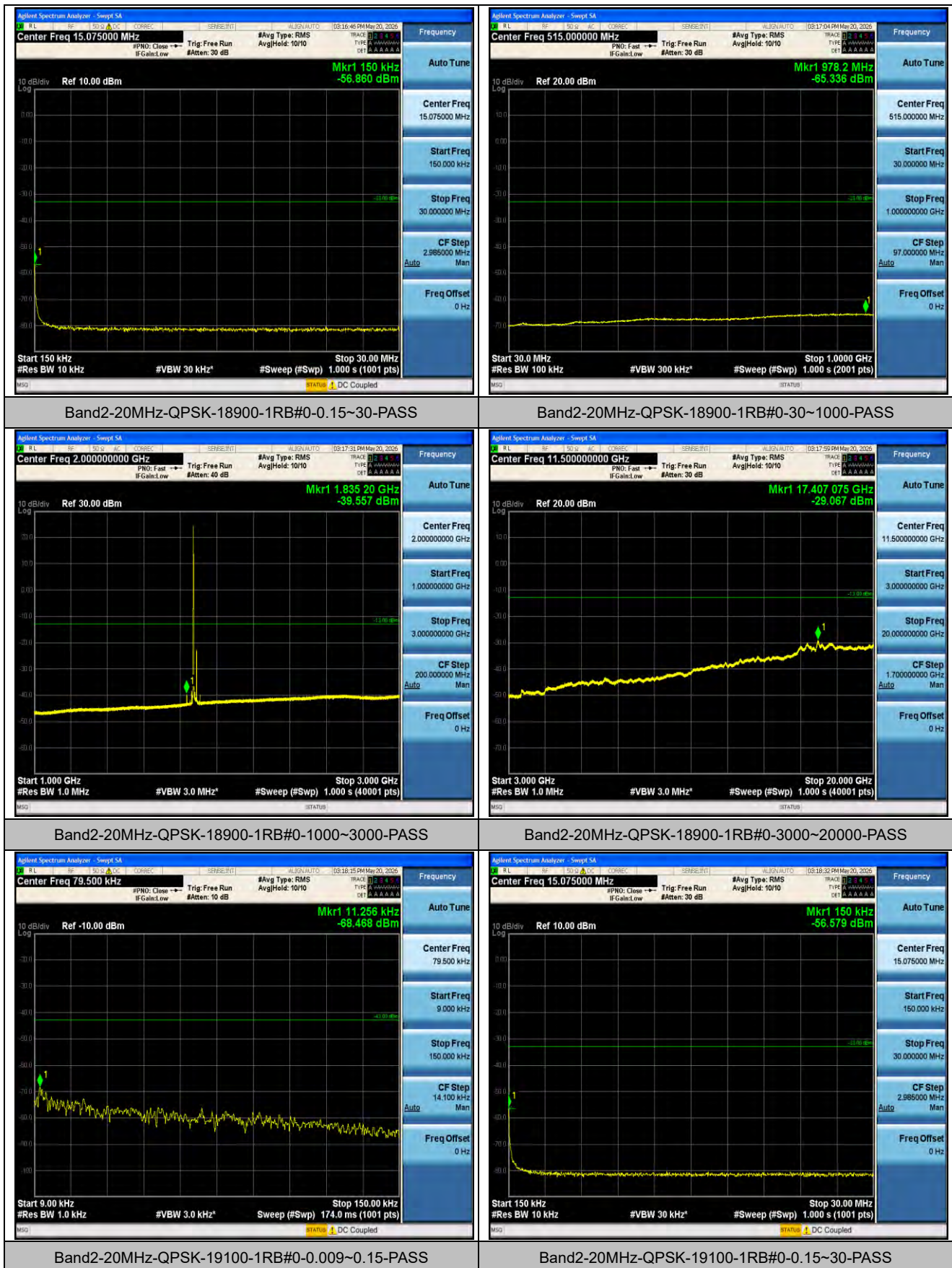


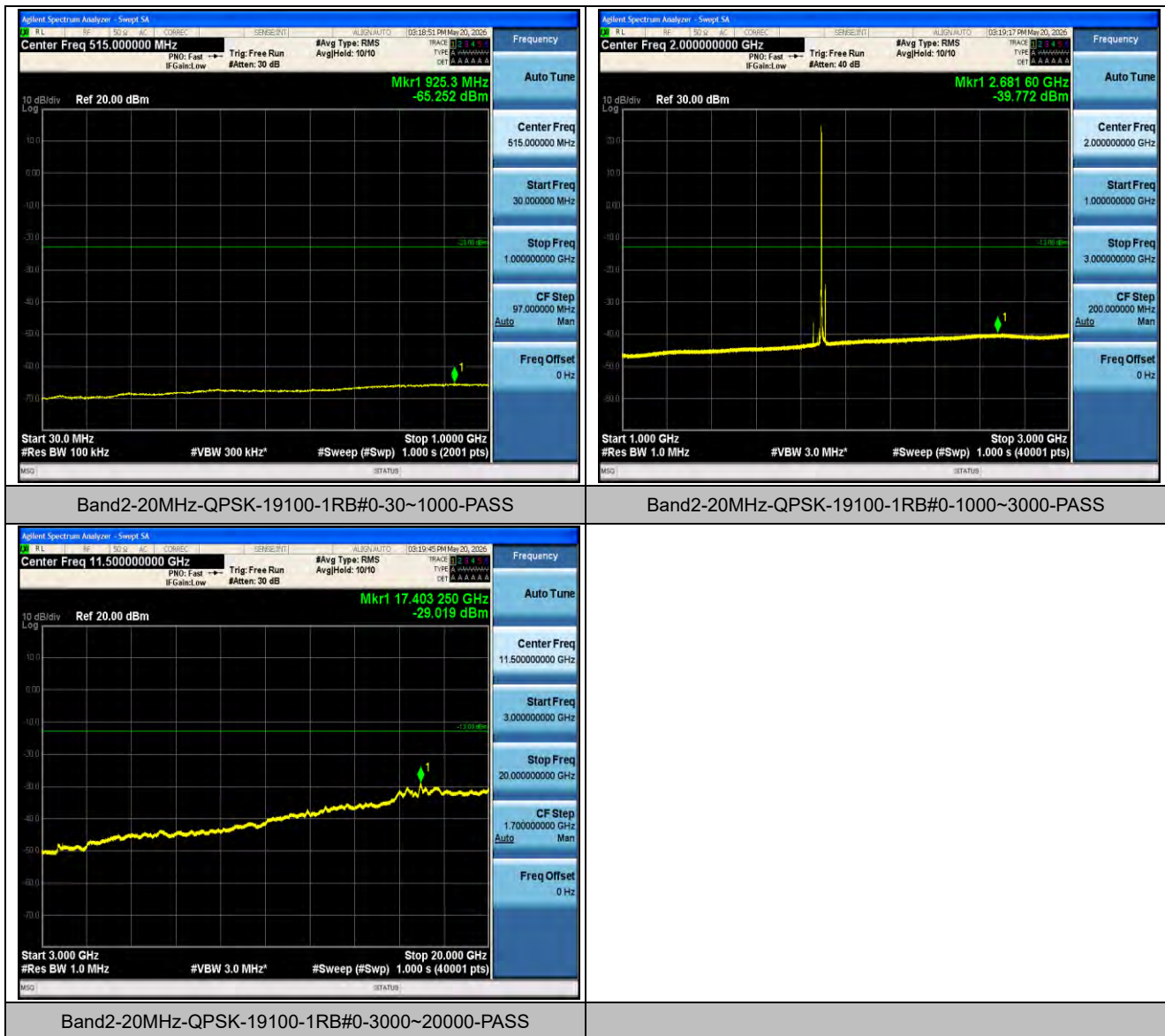
Band2-20MHz-QPSK-19100-100RB#0-PASS

Conducted Spurious Emission

Test Graphs







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	-0.20	-0.000106	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-2.90	-0.001543	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-1.20	-0.000638	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	-0.40	-0.000213	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-1.20	-0.000638	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	1.50	0.000798	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	1.80	0.000957	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-1.10	-0.000585	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	2.00	0.001064	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	0.90	0.000479	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	0.00	0.000000	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-1.30	-0.000691	PASS

~The End~