

Appendix-D 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	23.73	25.53	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.86	25.66	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.81	25.61	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.82	24.62	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.78	25.58	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	24.01	25.81	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.93	25.73	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.8	24.6	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.75	25.55	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.98	25.78	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.79	25.59	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.77	24.57	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.77	24.57	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	23.1	24.9	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.79	24.59	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.98	23.78	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.56	24.36	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.82	24.62	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.8	24.6	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.56	23.36	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.83	24.63	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.9	24.7	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.59	24.39	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.8	23.6	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.58	25.38	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.77	25.57	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.78	25.58	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.82	24.62	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.64	25.44	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.52	25.32	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.58	25.38	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.81	24.61	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.85	25.65	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.73	25.53	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.78	25.58	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.85	24.65	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.72	24.52	33.00	PASS

Band2	3MHz	16QAM	18615	1RB#8	22.68	24.48	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.67	24.47	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.61	23.41	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.84	24.64	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.76	24.56	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.8	24.6	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.87	23.67	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.62	24.42	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.4	24.2	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.45	24.25	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.67	23.47	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.61	25.41	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.87	25.67	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.68	25.48	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.8	24.6	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.69	25.49	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.68	25.48	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.7	25.5	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.8	24.6	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.87	25.67	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.89	25.69	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.76	25.56	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.78	24.58	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.58	24.38	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.42	24.22	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.73	24.53	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.94	23.74	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.74	24.54	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.58	24.38	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.15	23.95	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.56	23.36	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.73	24.53	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.8	24.6	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.86	24.66	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.75	23.55	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.64	25.44	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.74	25.54	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.9	25.7	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.87	24.67	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.59	25.39	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.7	25.5	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.49	25.29	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.81	24.61	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.75	25.55	33.00	PASS

Band2	10MHz	QPSK	19150	1RB#24	24.11	25.91	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.77	25.57	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.93	24.73	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.81	24.61	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.1	24.9	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.85	24.65	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.77	23.57	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.79	24.59	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	23.05	24.85	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.74	24.54	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.58	23.38	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.62	24.42	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	23.46	25.26	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.97	24.77	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.91	23.71	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.76	25.56	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.87	25.67	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.61	25.41	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.76	24.56	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.57	25.37	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.75	25.55	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.77	25.57	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.81	24.61	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.72	25.52	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.74	25.54	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.62	25.42	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.86	24.66	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.82	24.62	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.77	24.57	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.68	24.48	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.66	23.46	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.64	24.44	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.62	24.42	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.72	24.52	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.63	23.43	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.56	24.36	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.95	24.75	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.44	24.24	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.8	23.6	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.57	25.37	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	24.04	25.84	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.45	25.25	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.76	24.56	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.64	25.44	33.00	PASS

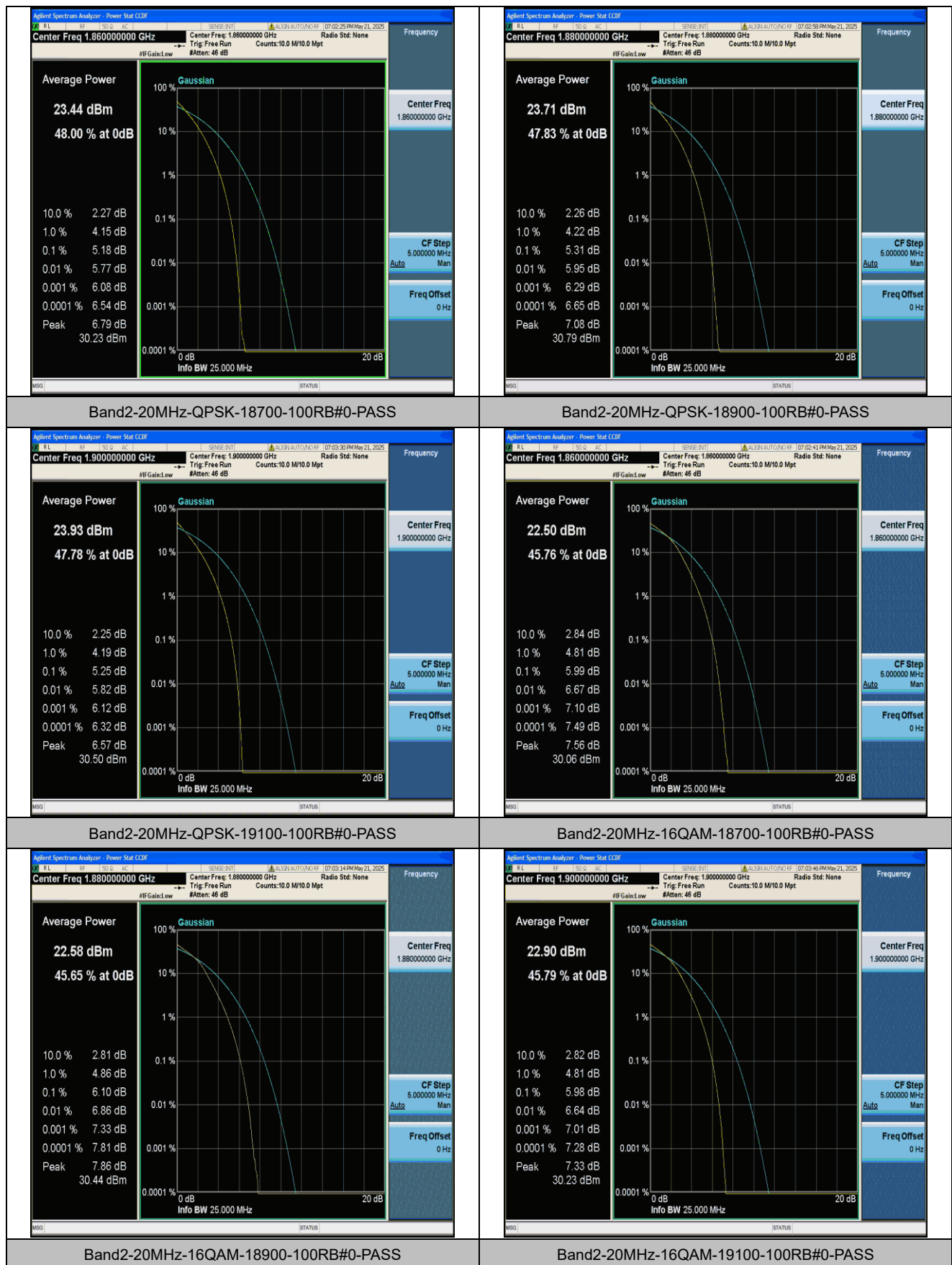
Band2	20MHz	QPSK	18900	1RB#49	24.11	25.91	33.00	PASS
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Band2	20MHz	QPSK	18900	100RB#0	22.82	24.62	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.79	25.59	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	24.07	25.87	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.82	25.62	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.9	24.7	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.62	24.42	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	23.27	25.07	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.41	24.21	33.00	PASS
Band2	20MHz	16QAM	18700	100RB#0	21.69	23.49	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.83	24.63	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	23.28	25.08	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.64	24.44	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.8	23.6	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	23.48	25.28	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	23.83	25.63	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	23.43	25.23	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.84	23.64	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	5.18	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.31	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.25	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	5.99	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.10	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.98	13	PASS

Test Graphs

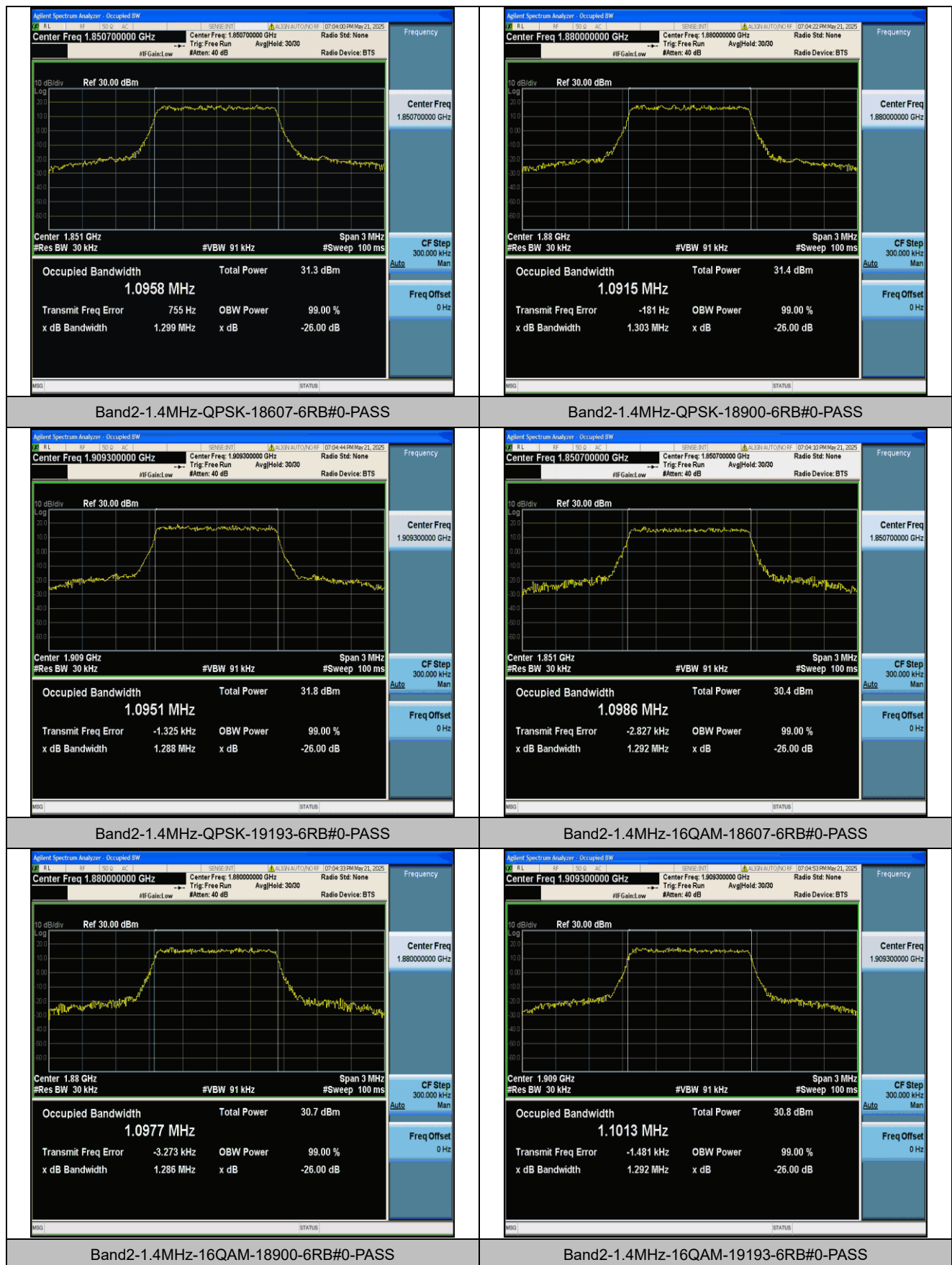


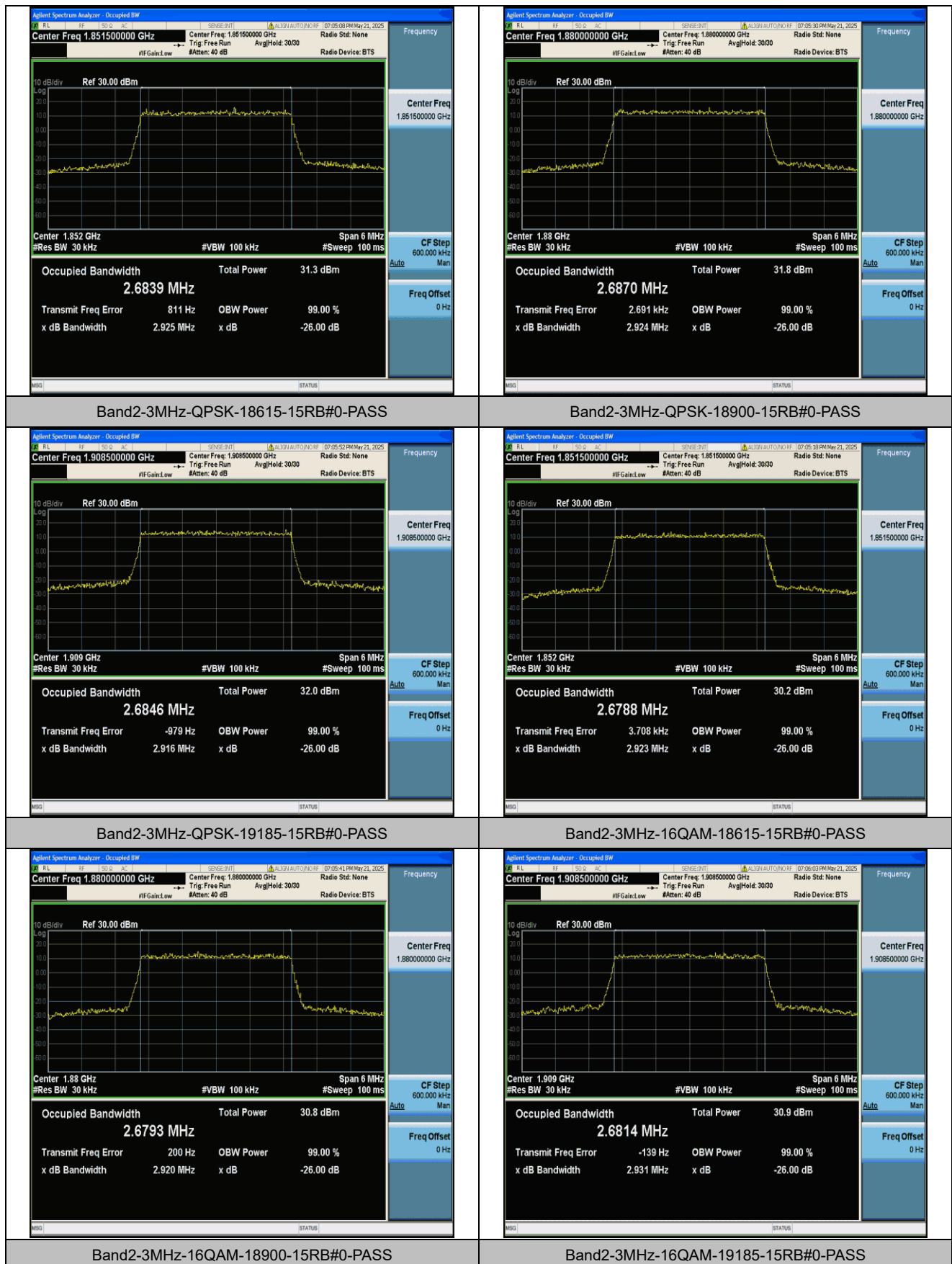
26dB Bandwidth and Occupied Bandwidth

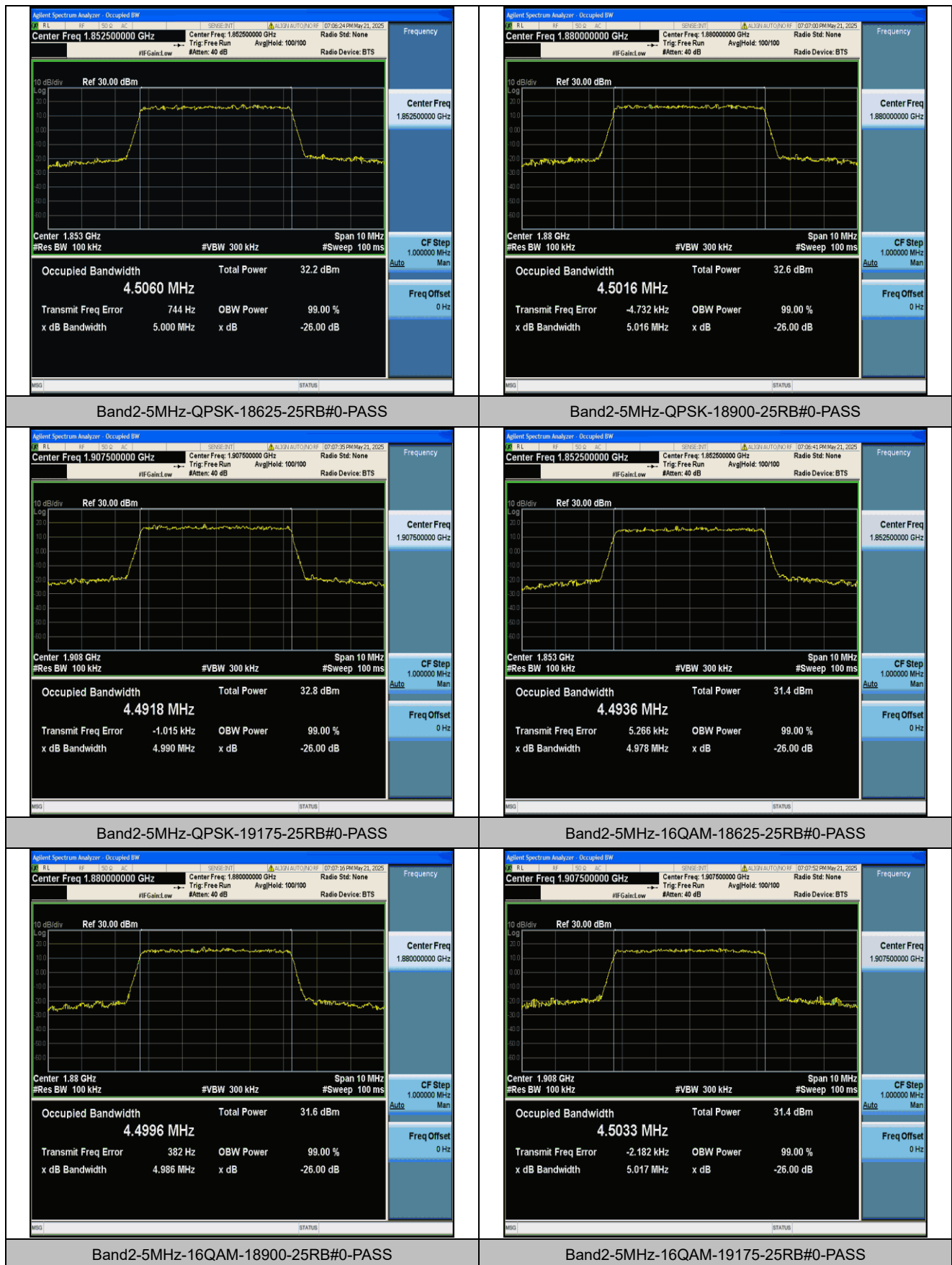
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0958	1.299	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0915	1.303	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0951	1.288	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0986	1.292	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0977	1.286	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.1013	1.292	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6839	2.925	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6870	2.924	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6846	2.916	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6788	2.923	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6793	2.920	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6814	2.931	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.5060	5.000	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.5016	5.016	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4918	4.990	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4936	4.978	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4996	4.986	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.5033	5.017	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9607	9.911	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9761	9.943	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9733	9.868	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9644	9.811	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9774	9.871	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9604	9.874	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.427	14.80	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.445	14.78	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.433	14.80	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.405	14.65	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.442	14.70	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.461	14.62	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.862	19.42	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.918	19.45	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.920	19.42	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.905	19.33	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.906	19.49	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.883	19.33	PASS

Test Graphs

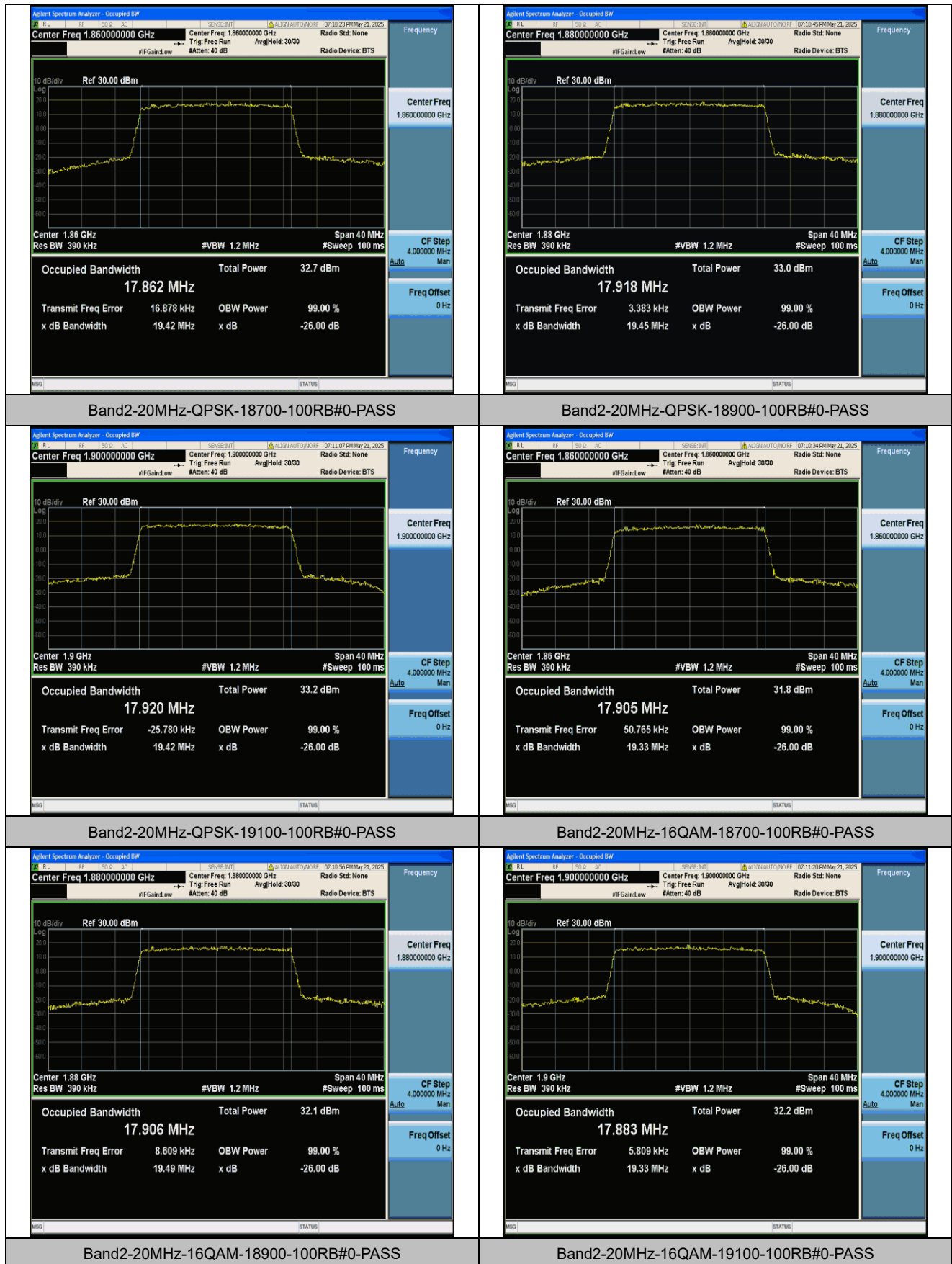






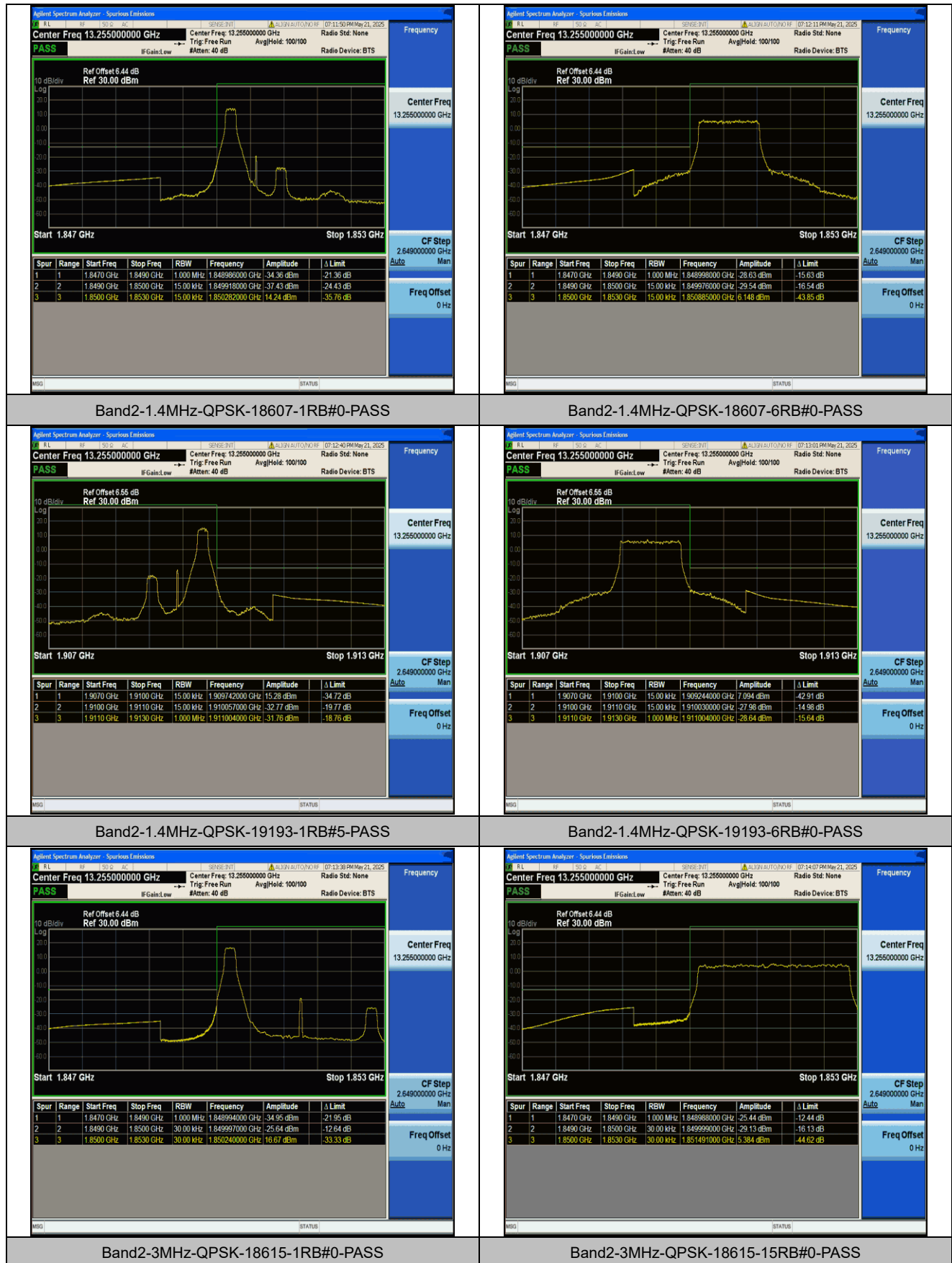


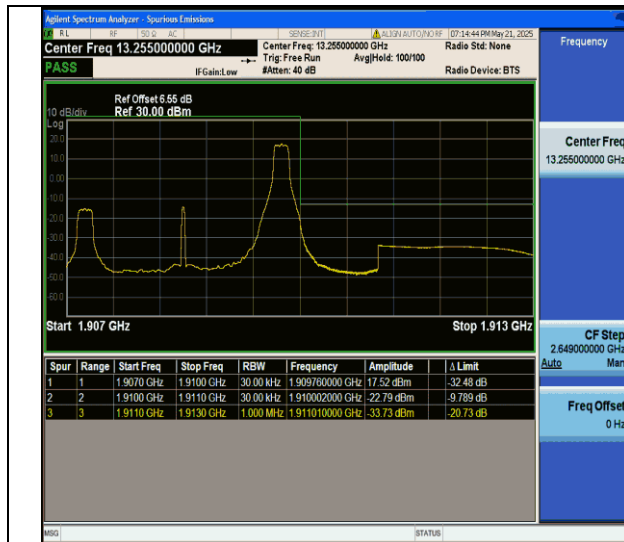




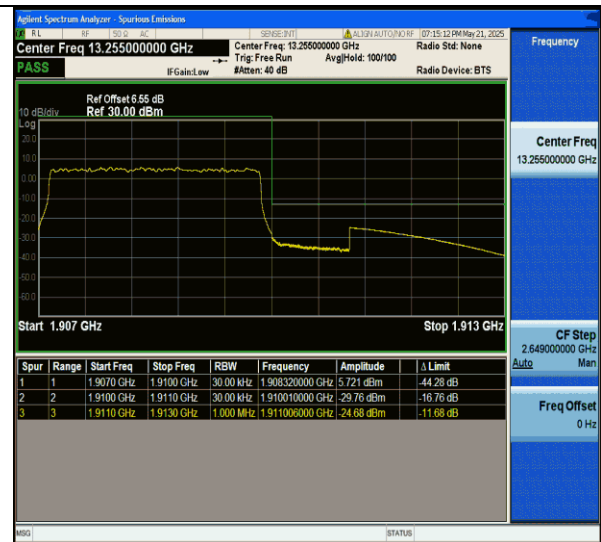
Band Edge

Test Graphs





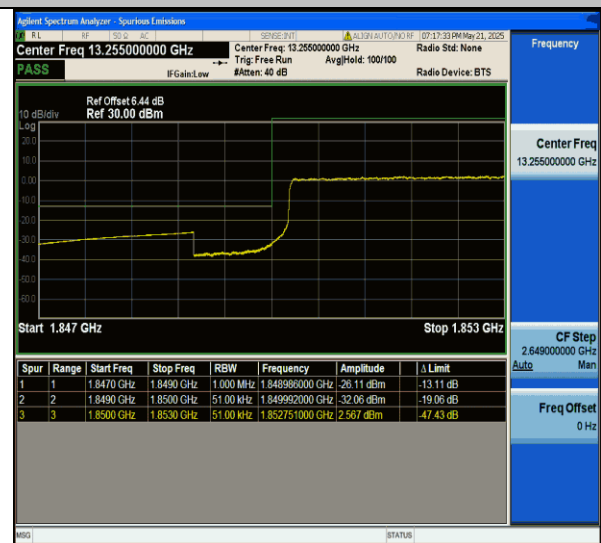
Band2-3MHz-QPSK-19185-1RB#14-PASS



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



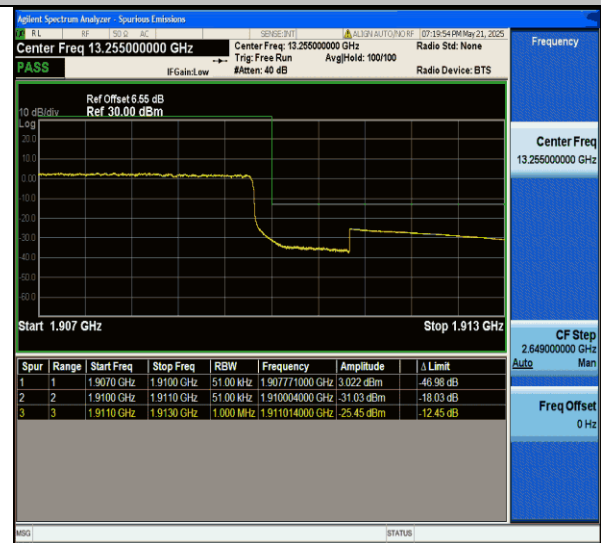
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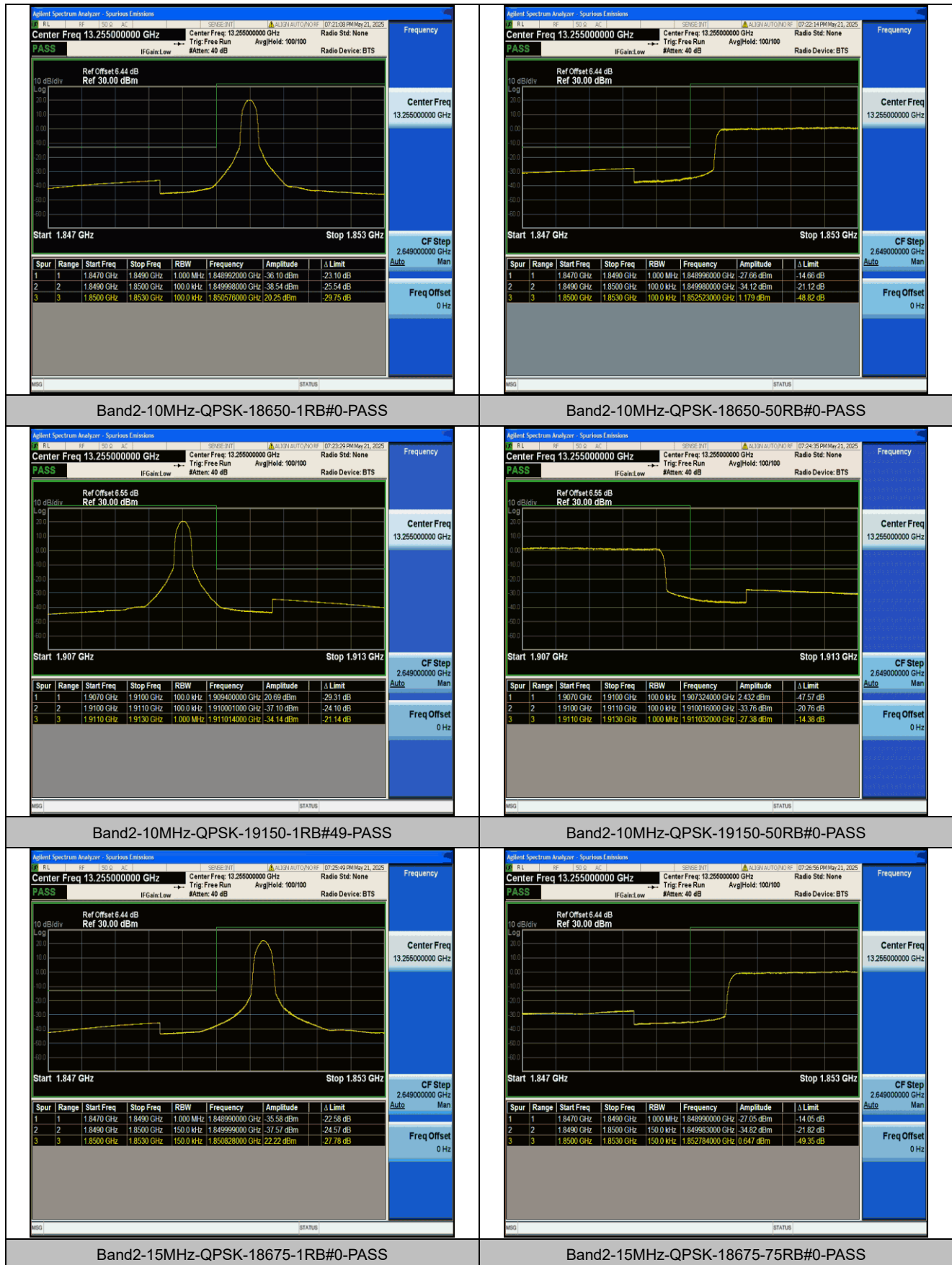
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Band2-5MHz-QPSK-19175-1RB#24-PASS

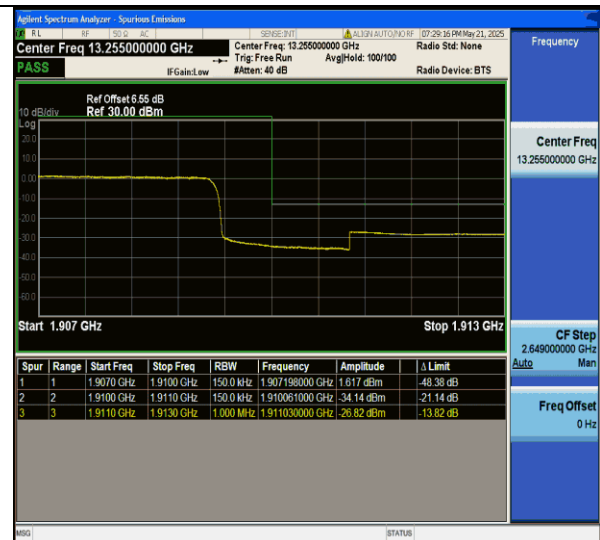


Band2-5MHz-QPSK-19175-25RB#0-PASS

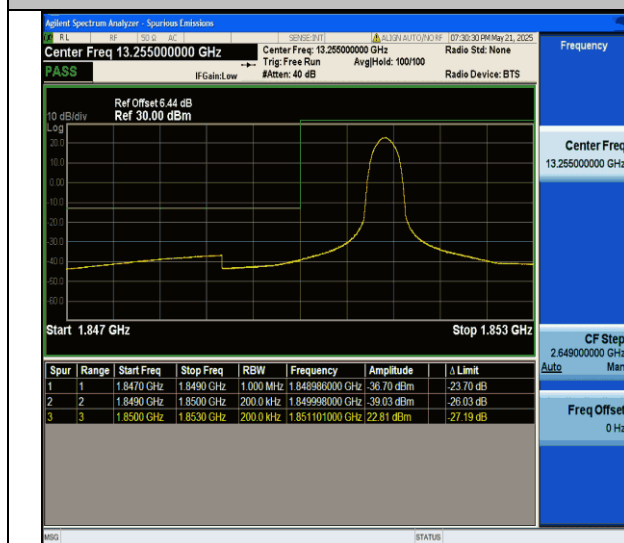




Band2-15MHz-QPSK-19125-1RB#74-PASS



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



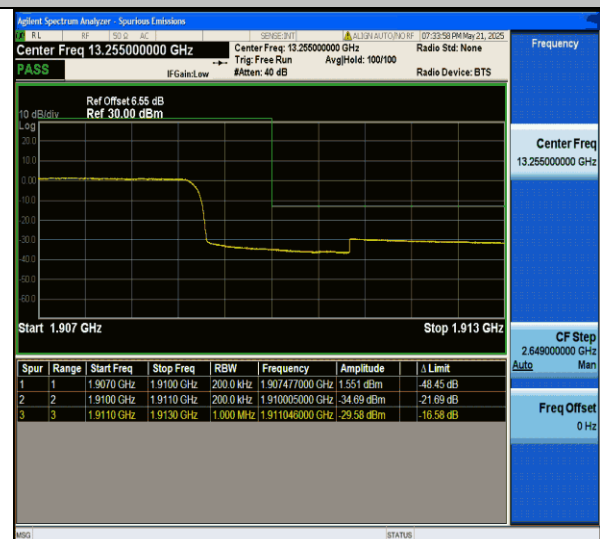
Band2-20MHz-QPSK-18700-1RB#0-PASS



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



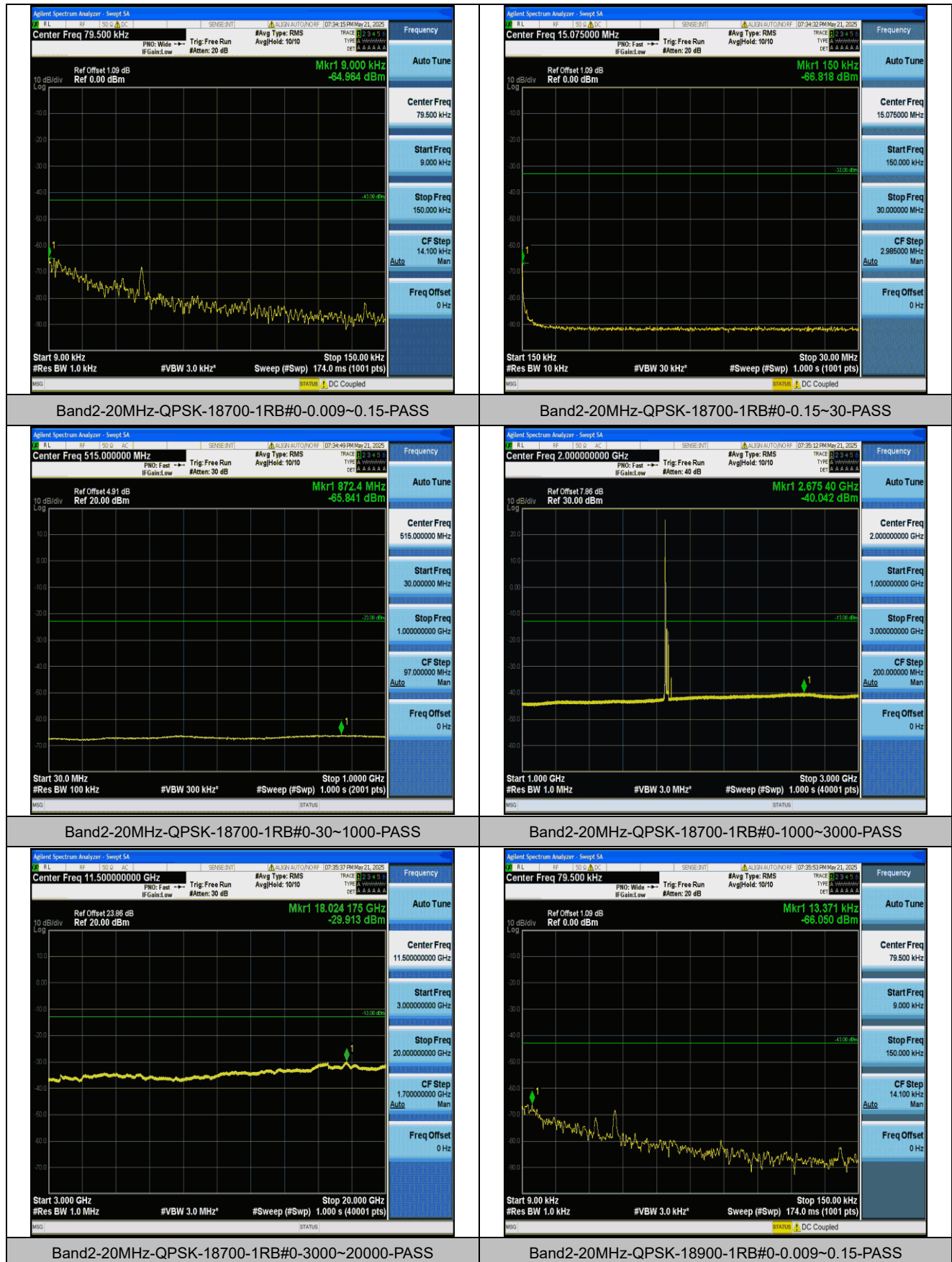
Band2-20MHz-QPSK-19100-1RB#99-PASS

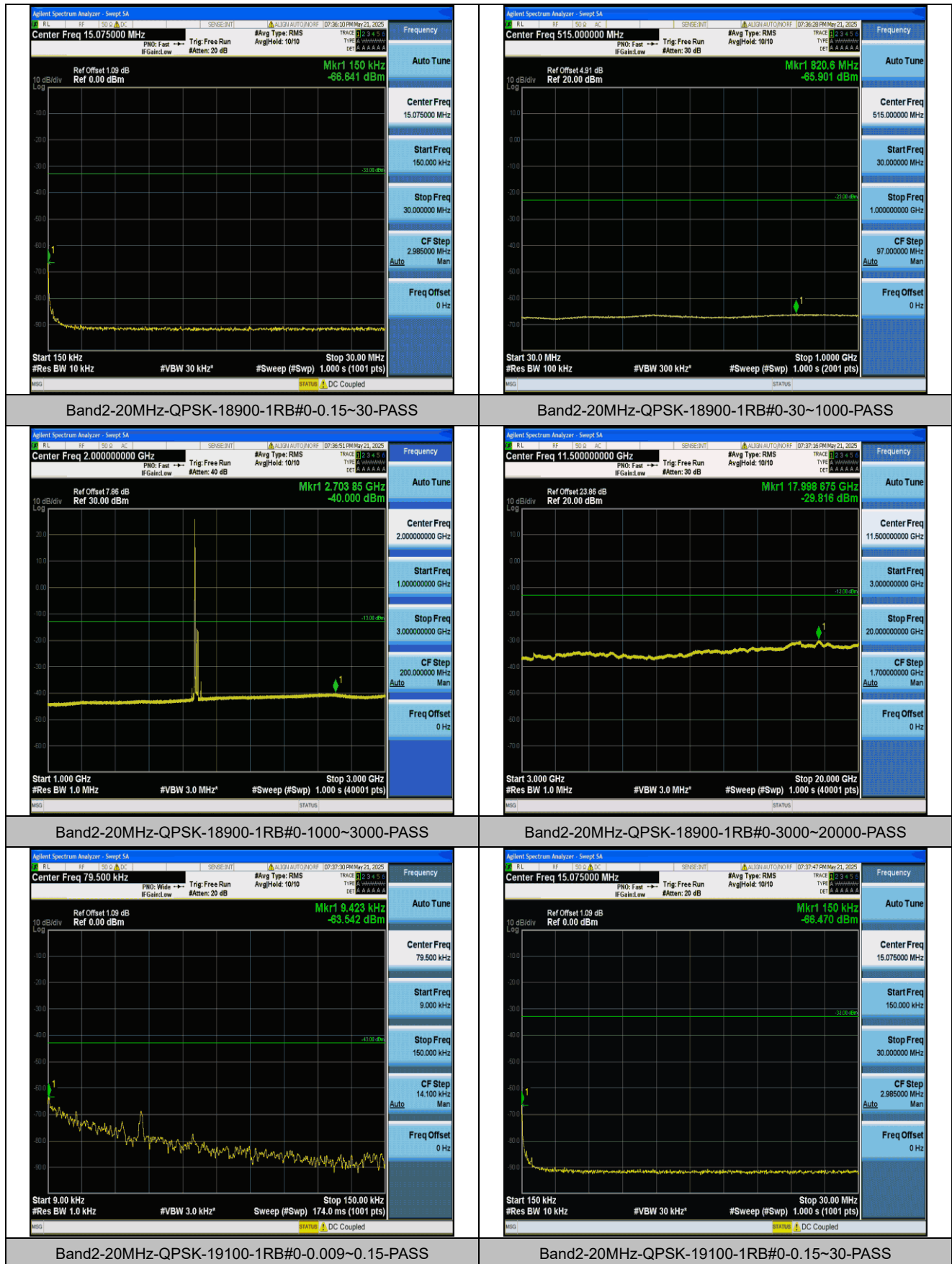


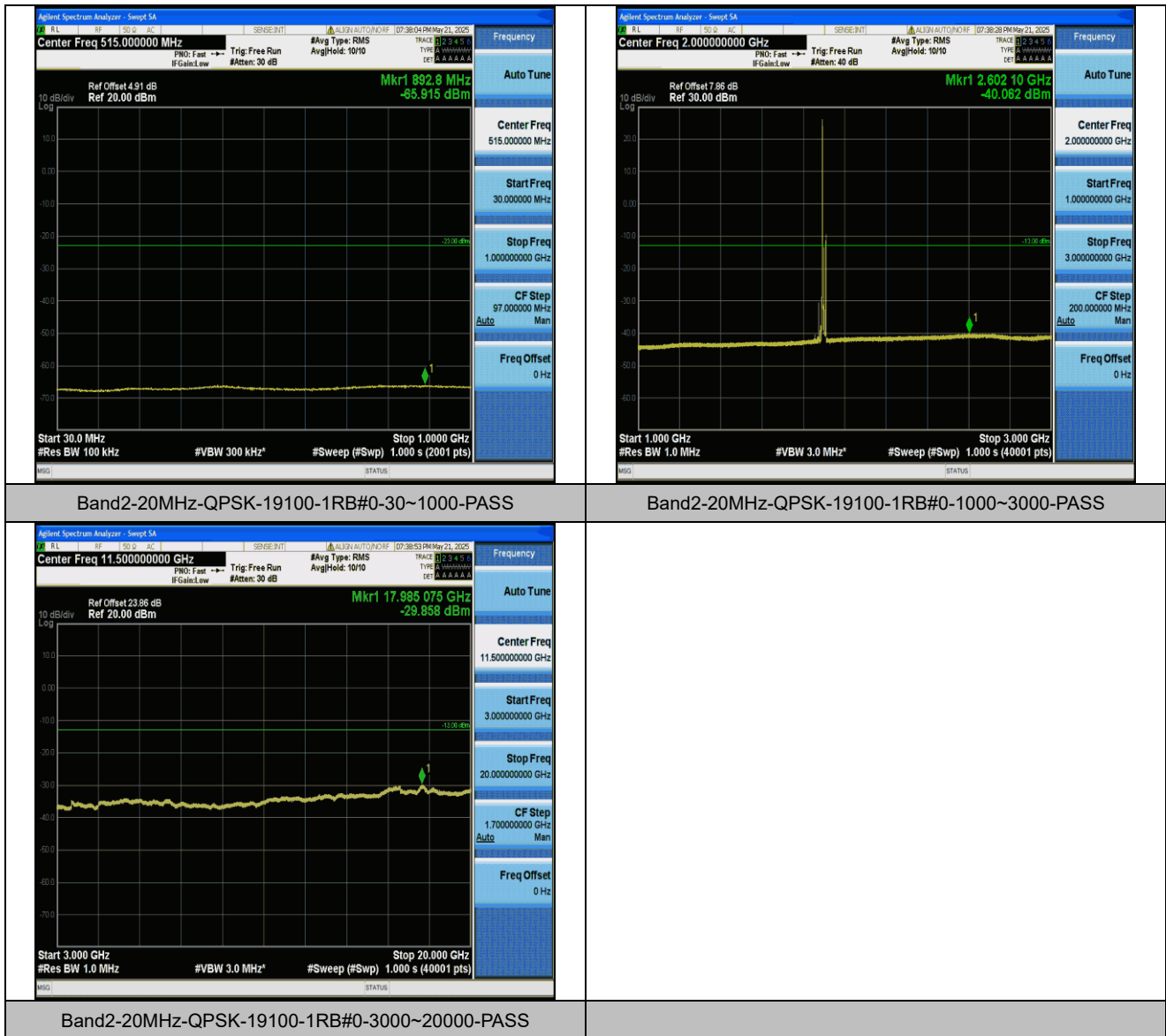
Band2-20MHz-QPSK-19100-100RB#0-PASS

Conducted Spurious Emission

Test Graphs







Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-4.19	-0.002229	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-4.84	-0.002574	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-6.77	-0.003601	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-5.19	-0.002761	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-5.58	-0.002968	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-5.51	-0.002931	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-4.79	-0.002548	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-4.28	-0.002277	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-3.75	-0.001995	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-4.82	-0.002564	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-5.76	-0.003064	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-3.20	-0.001702	PASS

~The End~