

Appendix-B LTE Band2

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	23.46	24.46	33.01	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.43	23.43	33.01	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.73	24.73	33.01	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.78	23.78	33.01	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.36	24.36	33.01	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.91	23.91	33.01	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.64	24.64	33.01	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.79	23.79	33.01	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.37	23.37	33.01	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.41	23.41	33.01	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.93	23.93	33.01	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.01	23.01	33.01	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.61	23.61	33.01	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.46	22.46	33.01	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	23.10	24.10	33.01	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.18	23.18	33.01	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.77	23.77	33.01	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.93	22.93	33.01	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	23.02	24.02	33.01	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.03	23.03	33.01	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.66	22.66	33.01	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.62	22.62	33.01	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.28	23.28	33.01	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.36	22.36	33.01	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.30	24.30	33.01	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.46	23.46	33.01	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.82	24.82	33.01	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.30	23.30	33.01	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.33	24.33	33.01	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.96	23.96	33.01	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.84	24.84	33.01	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.20	23.20	33.01	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.18	24.18	33.01	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.13	23.13	33.01	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.29	24.29	33.01	PASS
Band2	3MHz	QPSK	19185	1RB#14	21.51	22.51	33.01	PASS

Band2	3MHz	16QAM	18615	1RB#0	22.70	23.70	33.01	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.53	22.53	33.01	PASS
Band2	3MHz	16QAM	18615	1RB#8	23.11	24.11	33.01	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.59	22.59	33.01	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.73	23.73	33.01	PASS
Band2	3MHz	16QAM	18900	15RB#0	22.04	23.04	33.01	PASS
Band2	3MHz	16QAM	18900	1RB#8	23.10	24.10	33.01	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.55	22.55	33.01	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.58	23.58	33.01	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.24	22.24	33.01	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.71	23.71	33.01	PASS
Band2	3MHz	16QAM	19185	1RB#14	20.96	21.96	33.01	PASS
Band2	5MHz	QPSK	18625	1RB#0	24.23	25.23	33.01	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.88	23.88	33.01	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.34	24.34	33.01	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.81	24.81	33.01	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.36	24.36	33.01	PASS
Band2	5MHz	QPSK	18900	25RB#0	23.01	24.01	33.01	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.25	24.25	33.01	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.41	24.41	33.01	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.49	24.49	33.01	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.78	23.78	33.01	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.15	24.15	33.01	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.05	24.05	33.01	PASS
Band2	5MHz	16QAM	18625	1RB#0	23.39	24.39	33.01	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.94	22.94	33.01	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.67	23.67	33.01	PASS
Band2	5MHz	16QAM	18625	1RB#24	23.24	24.24	33.01	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.59	23.59	33.01	PASS
Band2	5MHz	16QAM	18900	25RB#0	22.07	23.07	33.01	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.70	23.70	33.01	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.85	23.85	33.01	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.79	23.79	33.01	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.89	22.89	33.01	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.57	23.57	33.01	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.47	23.47	33.01	PASS
Band2	10MHz	QPSK	18650	1RB#0	24.04	25.04	33.01	PASS
Band2	10MHz	QPSK	18650	50RB#0	23.10	24.10	33.01	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.78	24.78	33.01	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.62	24.62	33.01	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.60	24.60	33.01	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.77	23.77	33.01	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.56	24.56	33.01	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.41	24.41	33.01	PASS
Band2	10MHz	QPSK	19150	1RB#0	24.14	25.14	33.01	PASS

Band2	10MHz	QPSK	19150	50RB#0	23.20	24.20	33.01	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.79	24.79	33.01	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.28	24.28	33.01	PASS
Band2	10MHz	16QAM	18650	1RB#0	23.23	24.23	33.01	PASS
Band2	10MHz	16QAM	18650	27RB#0	21.79	22.79	33.01	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.14	24.14	33.01	PASS
Band2	10MHz	16QAM	18650	1RB#49	23.02	24.02	33.01	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.98	23.98	33.01	PASS
Band2	10MHz	16QAM	18900	27RB#0	21.82	22.82	33.01	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.95	23.95	33.01	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.68	23.68	33.01	PASS
Band2	10MHz	16QAM	19150	1RB#0	23.50	24.50	33.01	PASS
Band2	10MHz	16QAM	19150	27RB#0	22.17	23.17	33.01	PASS
Band2	10MHz	16QAM	19150	1RB#24	23.21	24.21	33.01	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.75	23.75	33.01	PASS
Band2	15MHz	QPSK	18675	1RB#0	24.12	25.12	33.01	PASS
Band2	15MHz	QPSK	18675	75RB#0	23.24	24.24	33.01	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.76	24.76	33.01	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.84	24.84	33.01	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.64	24.64	33.01	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.87	23.87	33.01	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.39	24.39	33.01	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.46	24.46	33.01	PASS
Band2	15MHz	QPSK	19125	1RB#0	24.16	25.16	33.01	PASS
Band2	15MHz	QPSK	19125	75RB#0	23.22	24.22	33.01	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.82	24.82	33.01	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.07	24.07	33.01	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.98	23.98	33.01	PASS
Band2	15MHz	16QAM	18675	27RB#0	21.82	22.82	33.01	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.82	23.82	33.01	PASS
Band2	15MHz	16QAM	18675	1RB#74	23.04	24.04	33.01	PASS
Band2	15MHz	16QAM	18900	1RB#0	23.15	24.15	33.01	PASS
Band2	15MHz	16QAM	18900	27RB#0	21.66	22.66	33.01	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.80	23.80	33.01	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.52	23.52	33.01	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.97	23.97	33.01	PASS
Band2	15MHz	16QAM	19125	27RB#0	22.45	23.45	33.01	PASS
Band2	15MHz	16QAM	19125	1RB#38	23.22	24.22	33.01	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.29	23.29	33.01	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.73	24.73	33.01	PASS
Band2	20MHz	QPSK	18700	100RB#0	23.18	24.18	33.01	PASS
Band2	20MHz	QPSK	18700	1RB#49	24.04	25.04	33.01	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.43	24.43	33.01	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.05	24.05	33.01	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.72	23.72	33.01	PASS

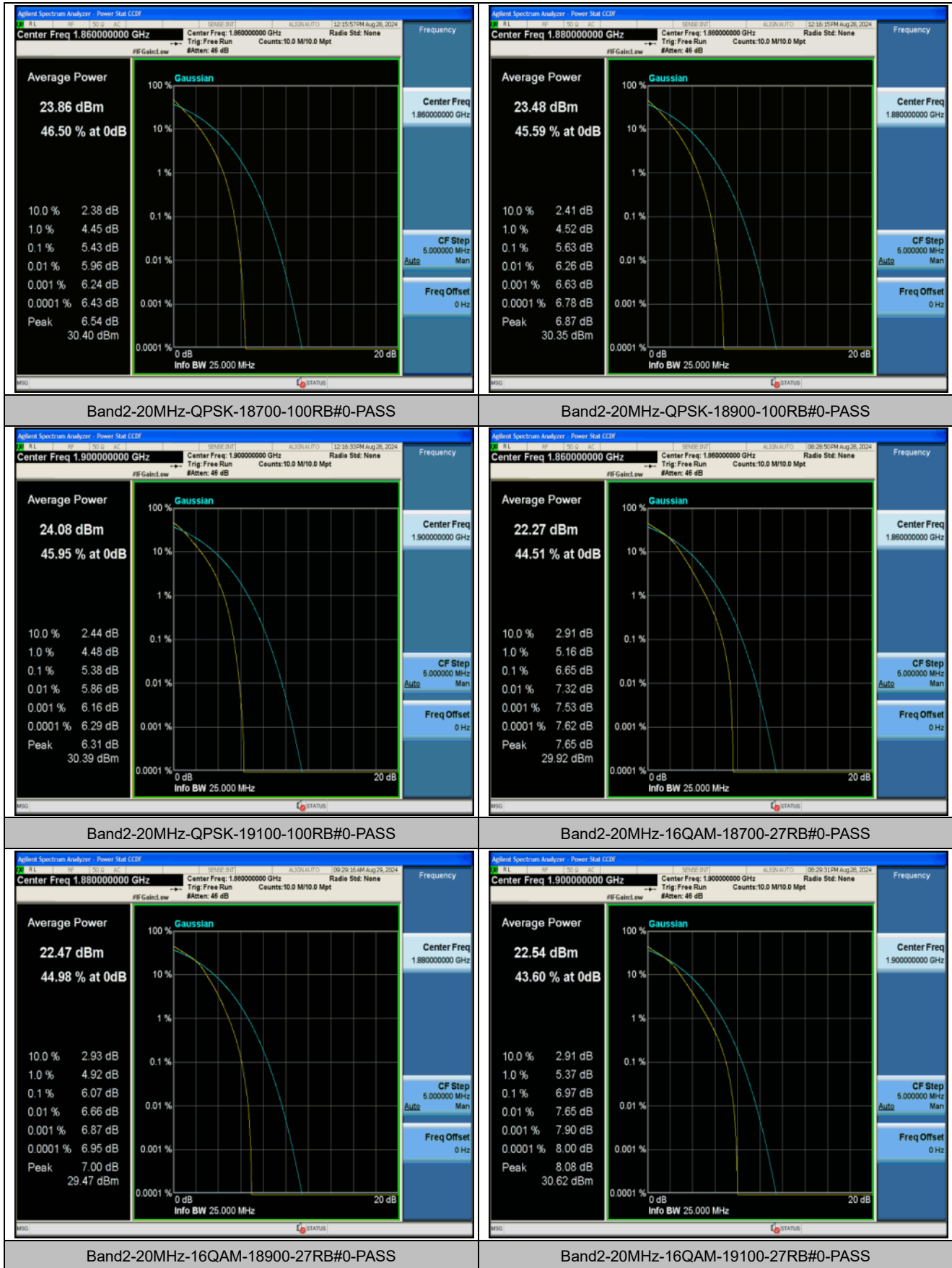
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Band2	20MHz	QPSK	18900	1RB#99	23.05	24.05	33.01	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.90	23.90	33.01	PASS
Band2	20MHz	QPSK	19100	100RB#0	23.44	24.44	33.01	PASS
Band2	20MHz	QPSK	19100	1RB#49	24.23	25.23	33.01	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.19	23.19	33.01	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.69	23.69	33.01	PASS
Band2	20MHz	16QAM	18700	27RB#0	21.45	22.45	33.01	PASS
Band2	20MHz	16QAM	18700	1RB#49	23.28	24.28	33.01	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.60	23.60	33.01	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.90	23.90	33.01	PASS
Band2	20MHz	16QAM	18900	27RB#0	21.75	22.75	33.01	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.77	23.77	33.01	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.10	23.10	33.01	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.72	23.72	33.01	PASS
Band2	20MHz	16QAM	19100	27RB#0	21.92	22.92	33.01	PASS
Band2	20MHz	16QAM	19100	1RB#49	23.63	24.63	33.01	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.54	22.54	33.01	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	5.43	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.63	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.38	13	PASS
Band2	20MHz	16QAM	18700	27RB#0	6.65	13	PASS
Band2	20MHz	16QAM	18900	27RB#0	6.07	13	PASS
Band2	20MHz	16QAM	19100	27RB#0	6.97	13	PASS

Test Graphs



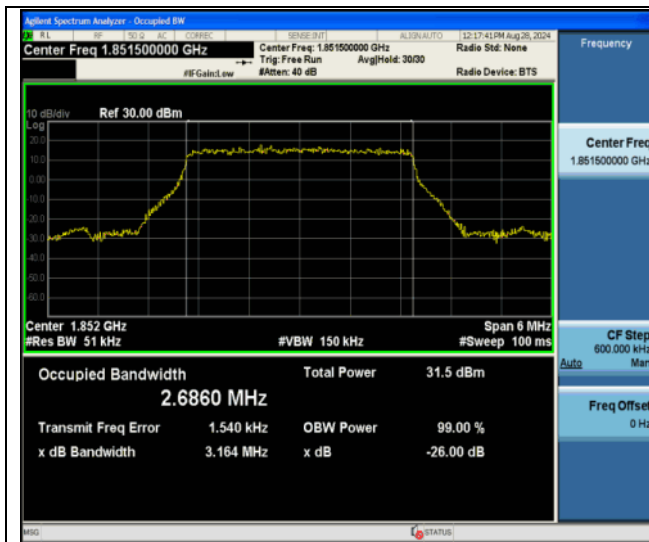
26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0880	1.397	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0902	1.419	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0900	1.394	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.1007	1.471	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.1006	1.417	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0999	1.472	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6860	3.164	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6880	3.224	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6861	3.166	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6764	3.187	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6798	3.149	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6814	3.167	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4728	5.101	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4674	5.079	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4725	5.065	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4781	5.142	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4726	5.104	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4744	5.121	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9416	9.672	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9283	9.690	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9225	9.647	PASS
Band2	10MHz	16QAM	18650	27RB#0	5.2031	8.870	PASS
Band2	10MHz	16QAM	18900	27RB#0	5.1290	8.455	PASS
Band2	10MHz	16QAM	19150	27RB#0	5.1067	8.381	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.520	16.42	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.538	16.30	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.479	16.22	PASS
Band2	15MHz	16QAM	18675	27RB#0	6.6539	10.27	PASS
Band2	15MHz	16QAM	18900	27RB#0	6.1469	9.799	PASS
Band2	15MHz	16QAM	19125	27RB#0	6.3701	10.09	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.975	20.83	PASS
Band2	20MHz	QPSK	18900	100RB#0	18.027	21.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.958	20.86	PASS
Band2	20MHz	16QAM	18700	27RB#0	7.6051	9.795	PASS
Band2	20MHz	16QAM	18900	27RB#0	6.7506	11.84	PASS
Band2	20MHz	16QAM	19100	27RB#0	7.4829	10.63	PASS

Test Graphs

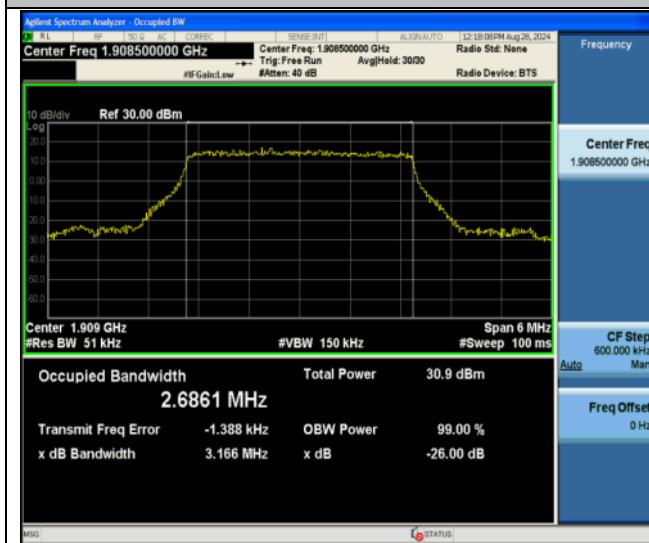




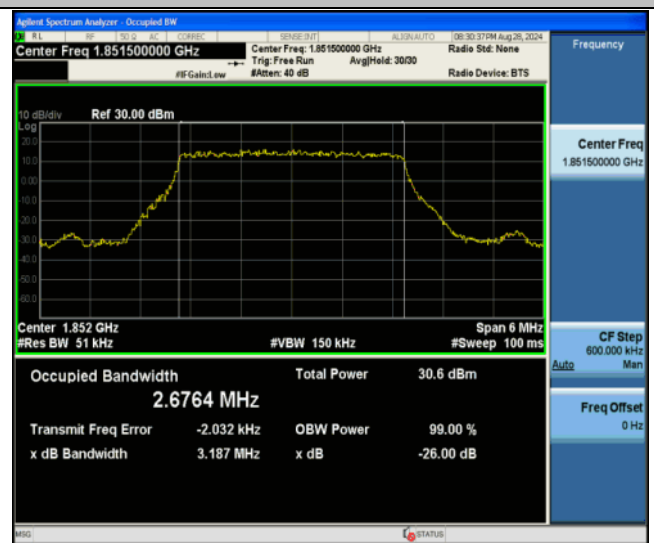
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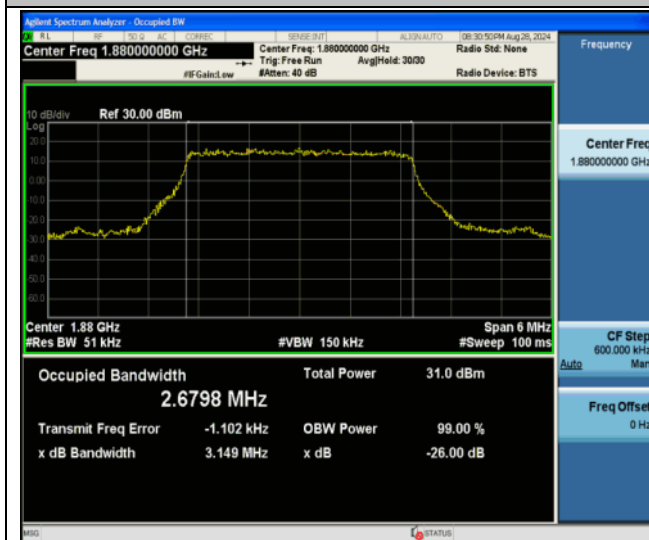
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Band2-3MHz-QPSK-19185-15RB#0-PASS



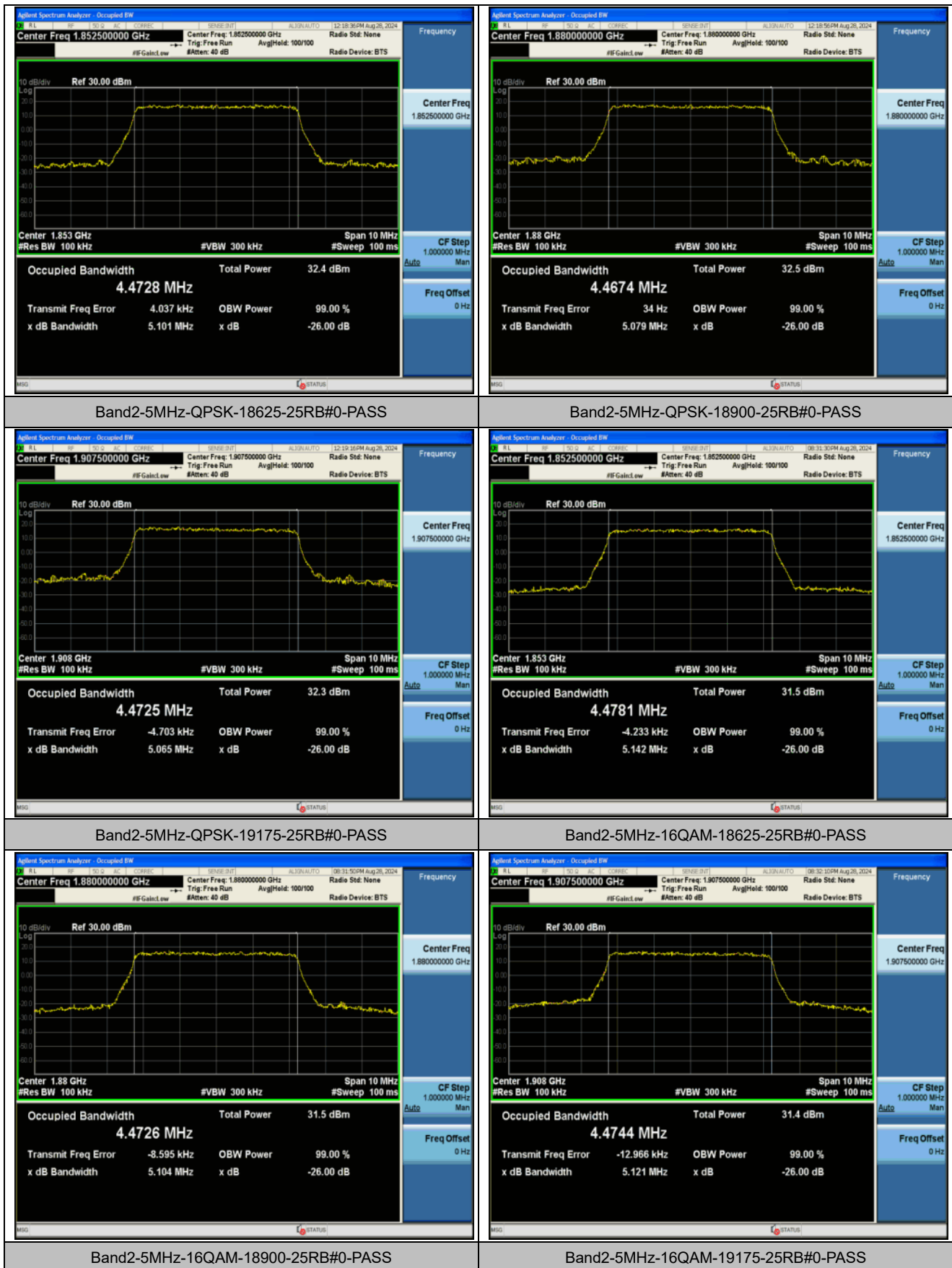
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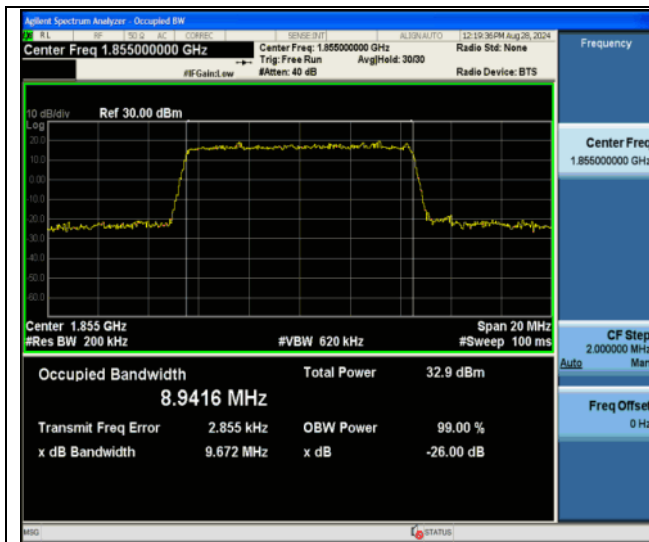


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Band2-3MHz-16QAM-19185-15RB#0-PASS

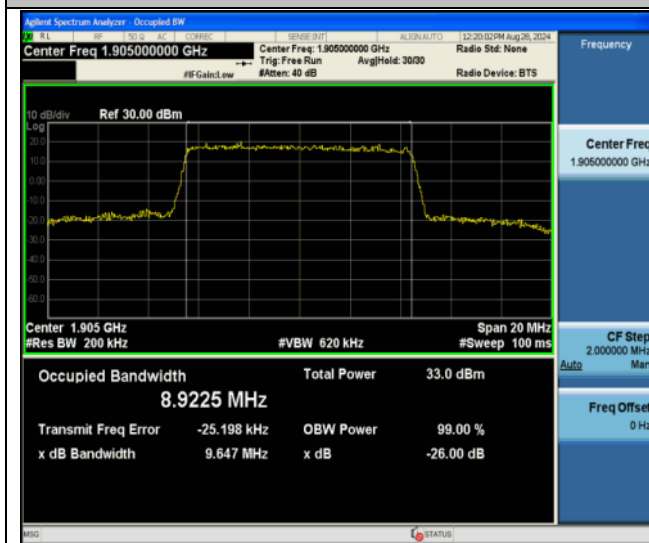




Band2-10MHz-QPSK-18650-50RB#0-PASS



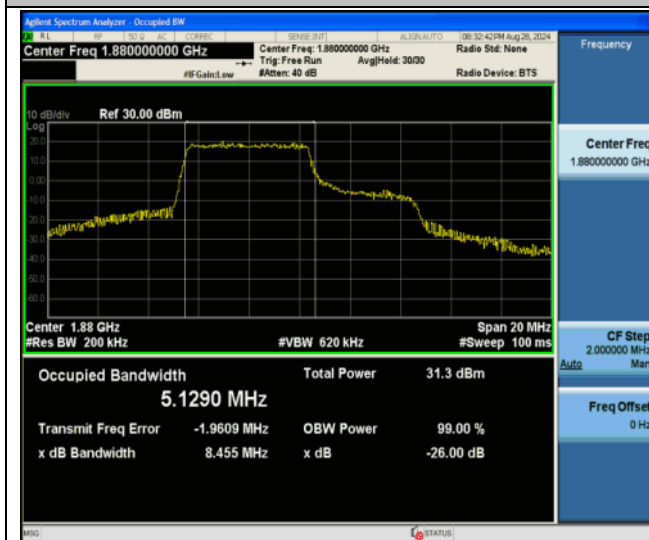
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Band2-10MHz-QPSK-19150-50RB#0-PASS



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



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



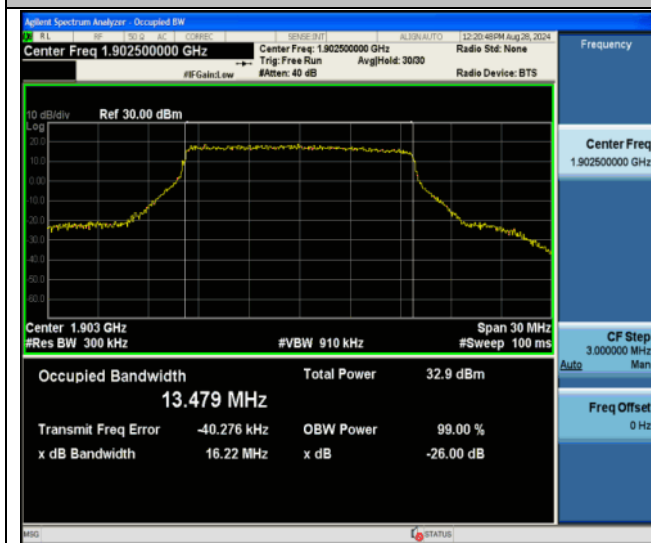
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Band2-15MHz-QPSK-18675-75RB#0-PASS



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



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



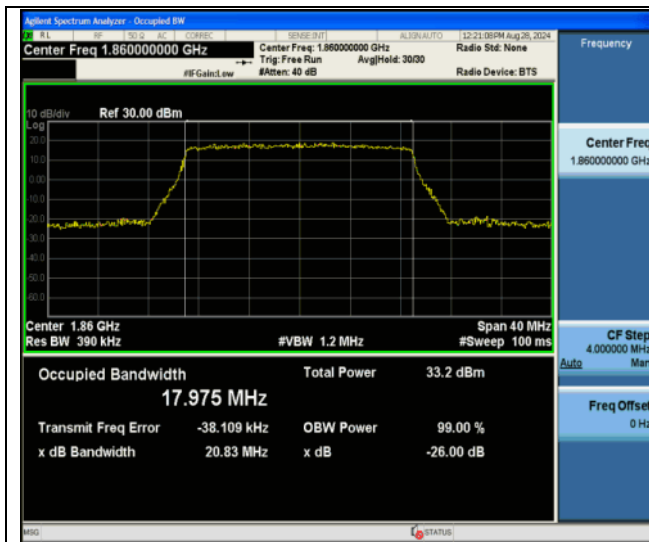
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Band2-15MHz-16QAM-18900-27RB#0-PASS



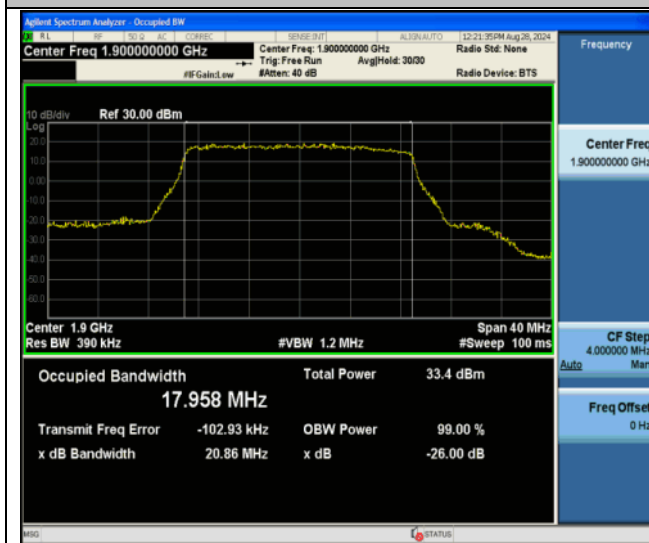
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Band2-20MHz-QPSK-18700-100RB#0-PASS



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



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



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



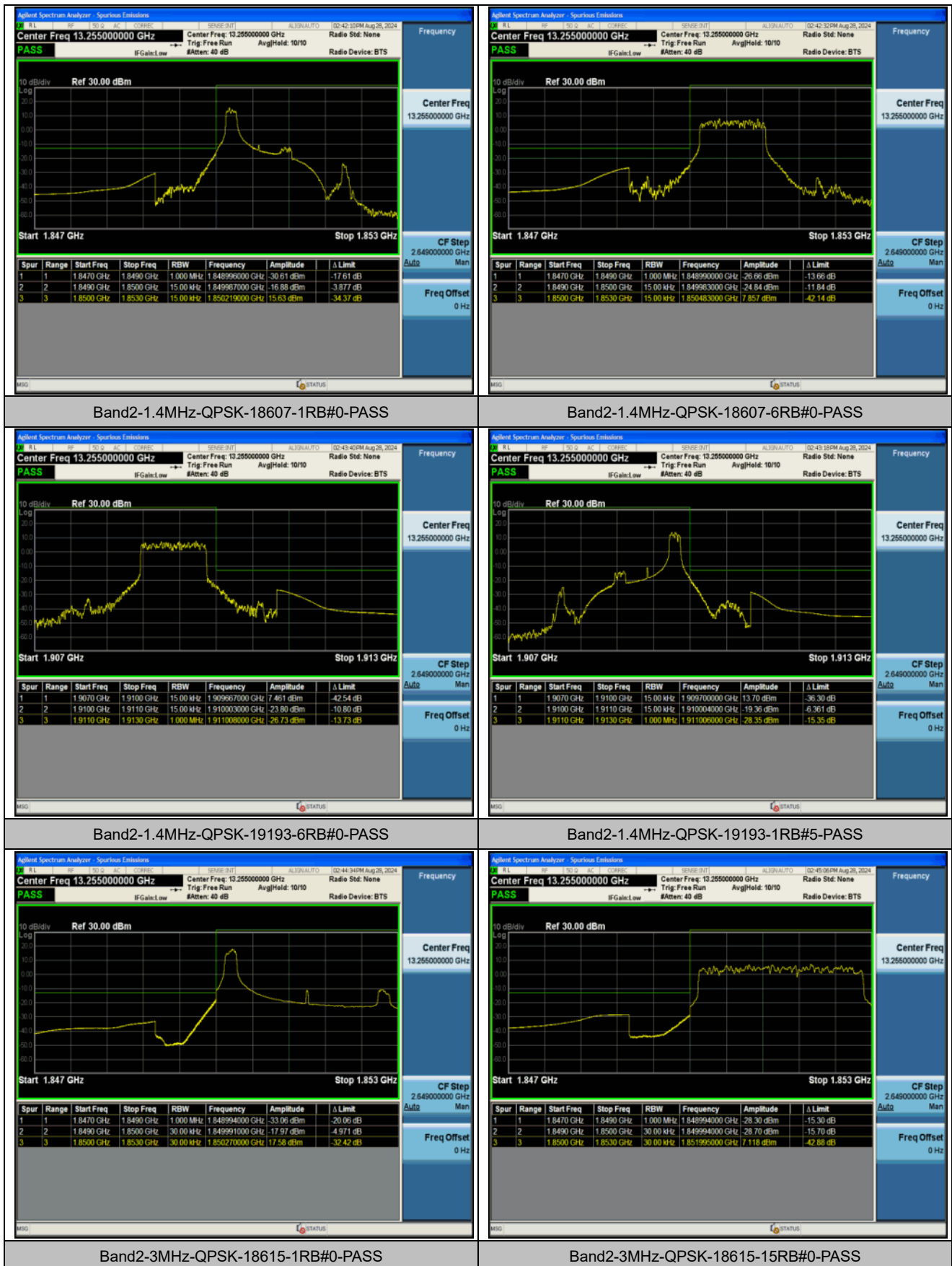
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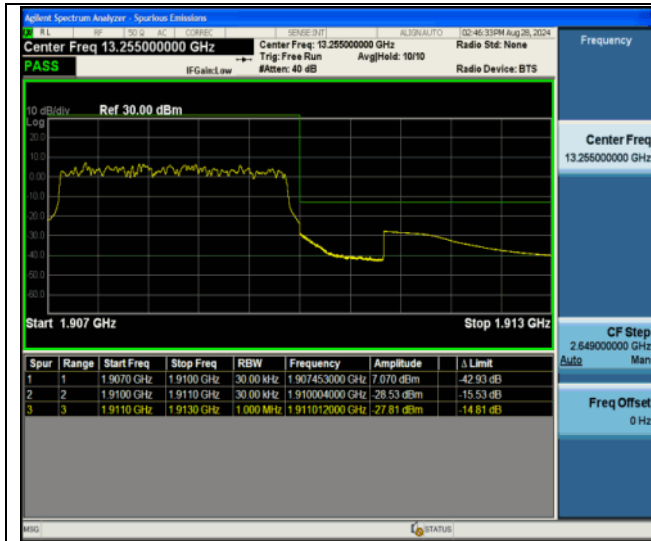


Band2-20MHz-16QAM-19100-27RB#0-PASS

Band Edge

Test Graphs

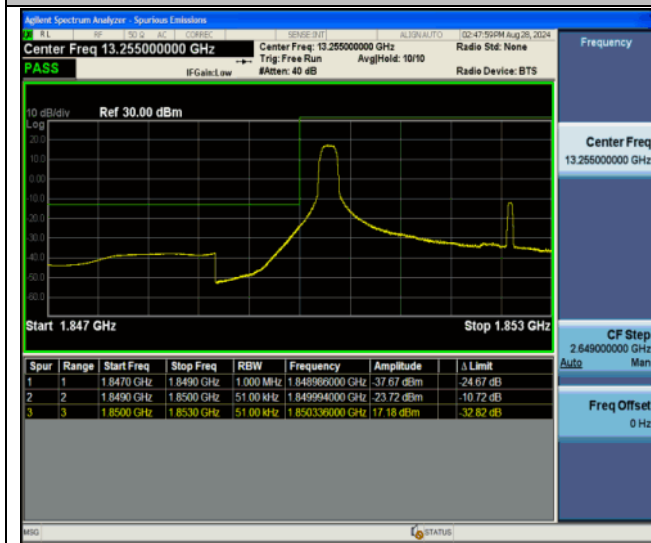




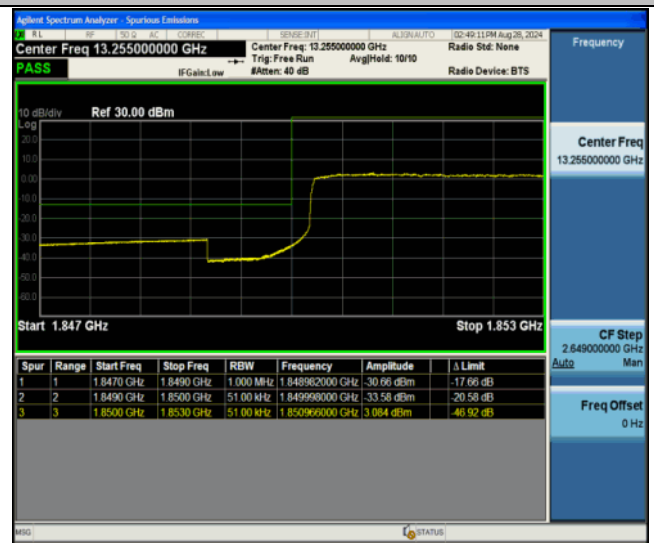
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Band2-3MHz-QPSK-19185-1RB#14-PASS



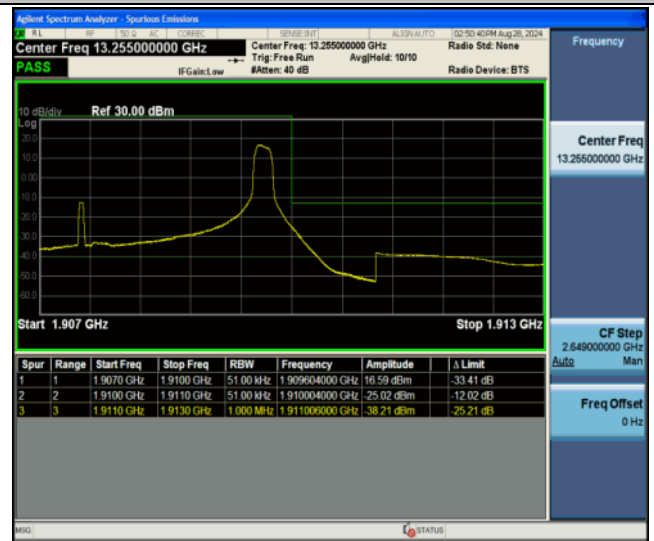
Band2-5MHz-QPSK-18625-1RB#0-PASS



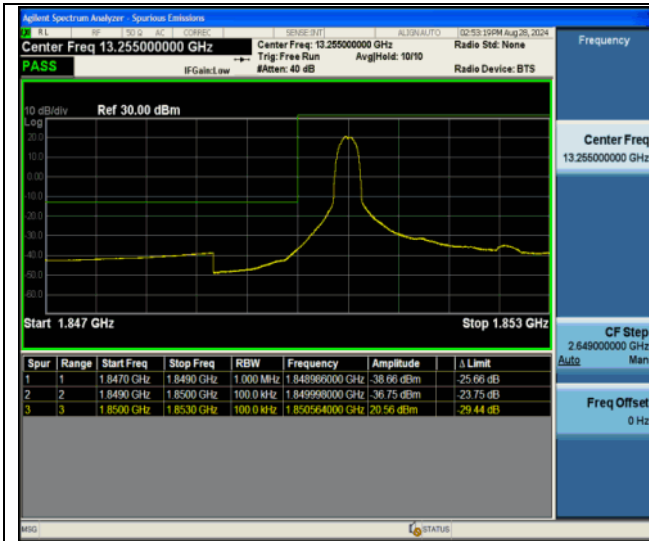
Band2-5MHz-QPSK-18625-25RB#0-PASS



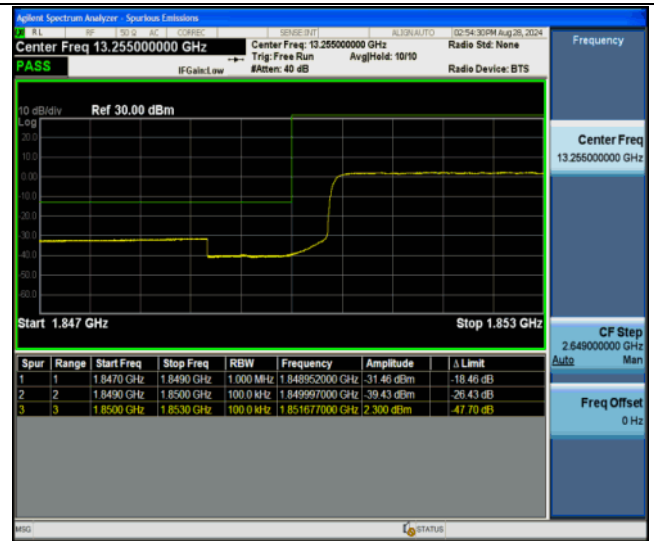
Band2-5MHz-QPSK-19175-25RB#0-PASS



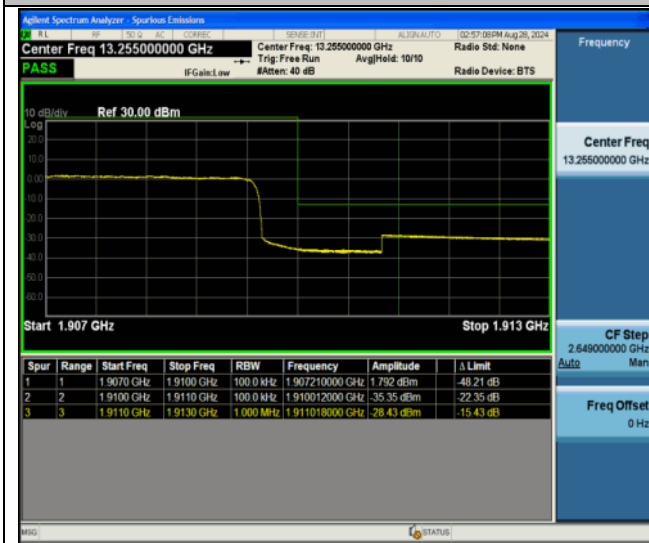
Band2-5MHz-QPSK-19175-1RB#24-PASS



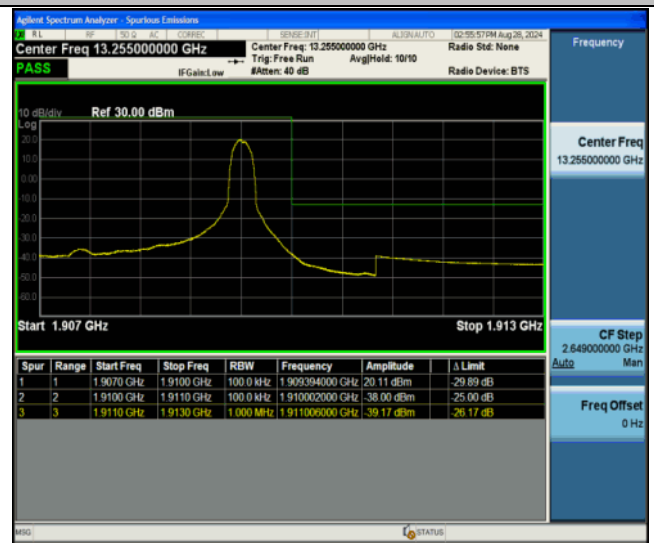
Band2-10MHz-QPSK-18650-1RB#0-PASS



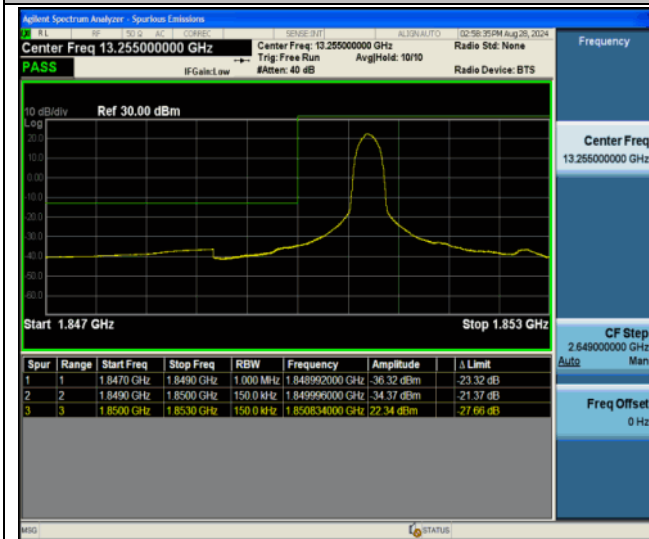
Band2-10MHz-QPSK-18650-50RB#0-PASS



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



Band2-10MHz-QPSK-19150-1RB#49-PASS



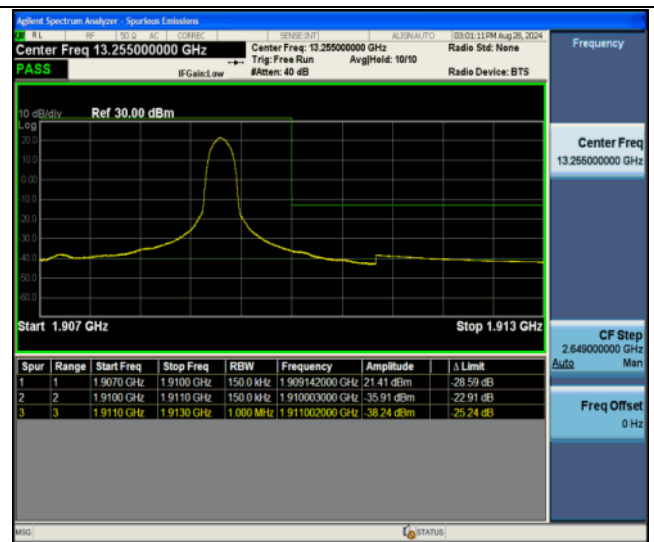
Band2-15MHz-QPSK-18675-1RB#0-PASS



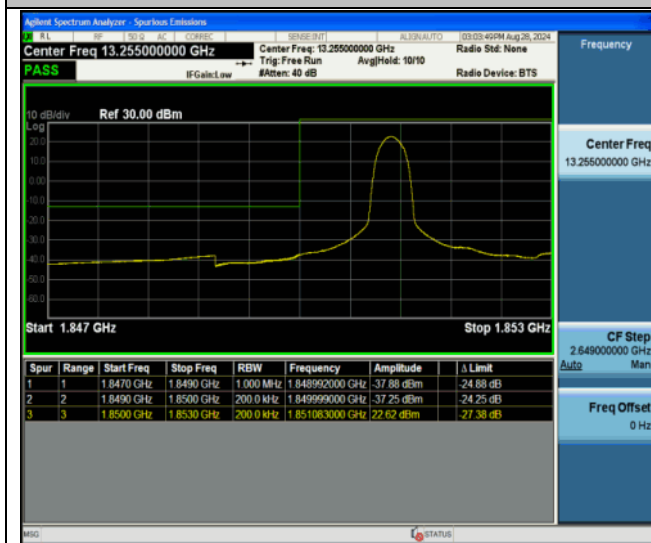
Band2-15MHz-QPSK-18675-75RB#0-PASS



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



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



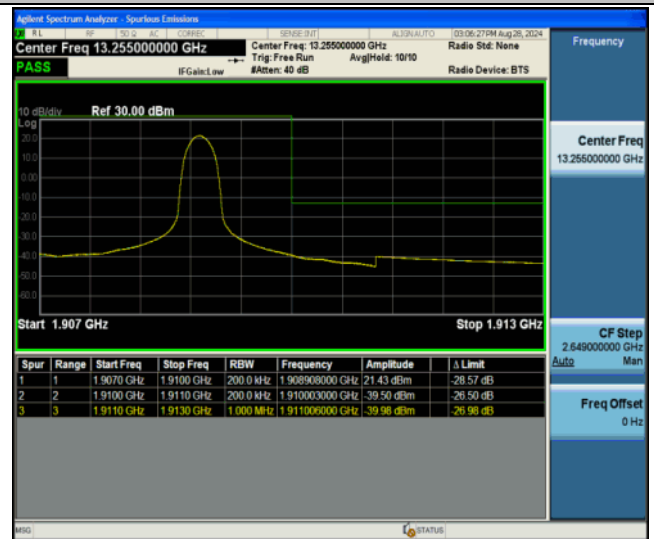
Band2-20MHz-QPSK-18700-1RB#0-PASS



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



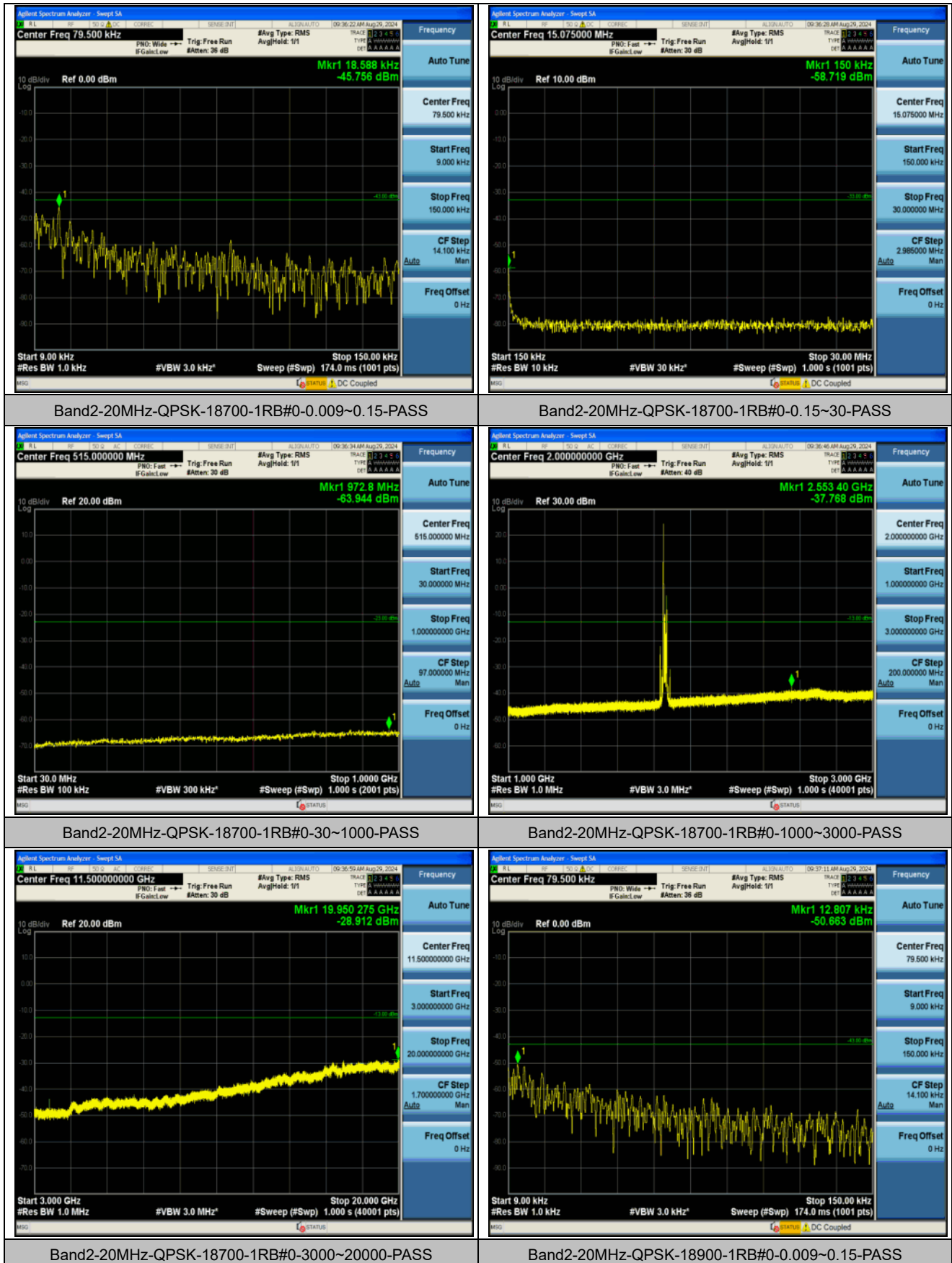
Band2-20MHz-QPSK-19100-100RB#0-PASS

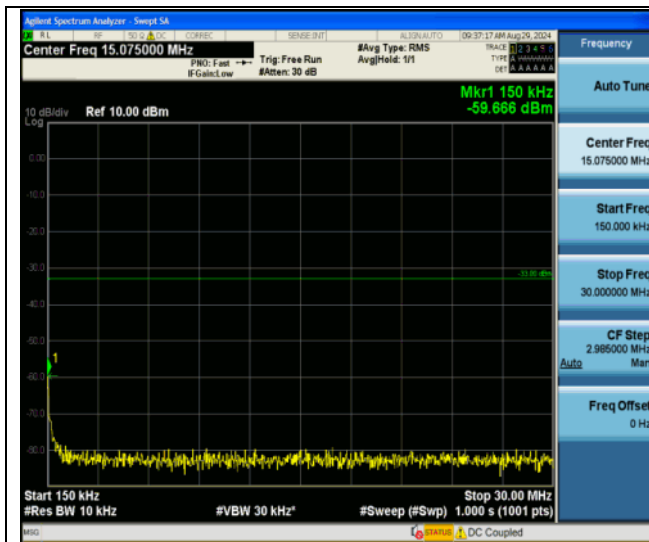


Band2-20MHz-QPSK-19100-1RB#99-PASS

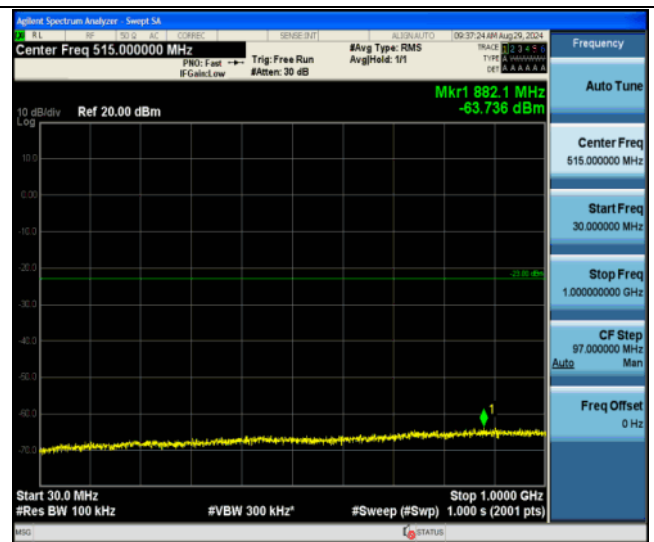
Conducted Spurious Emission

Test Graphs

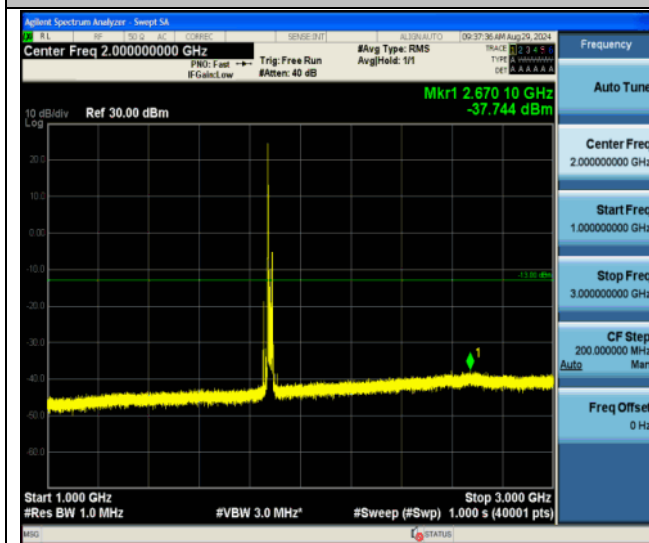




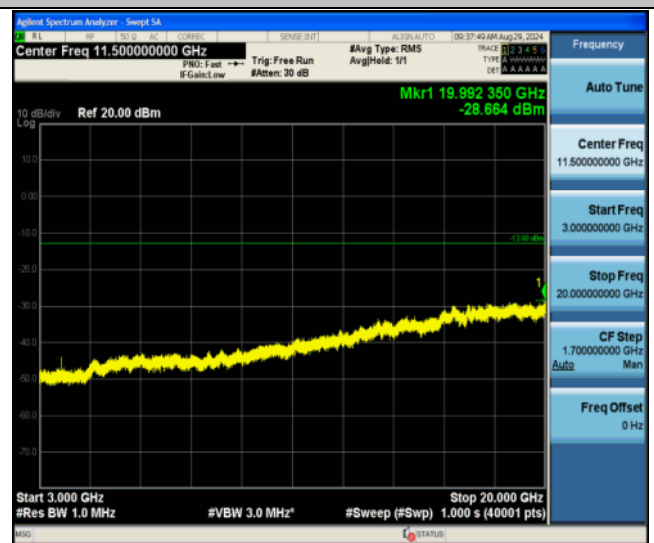
Band2-20MHz-QPSK-18900-1RB#0-0.15~30-PASS



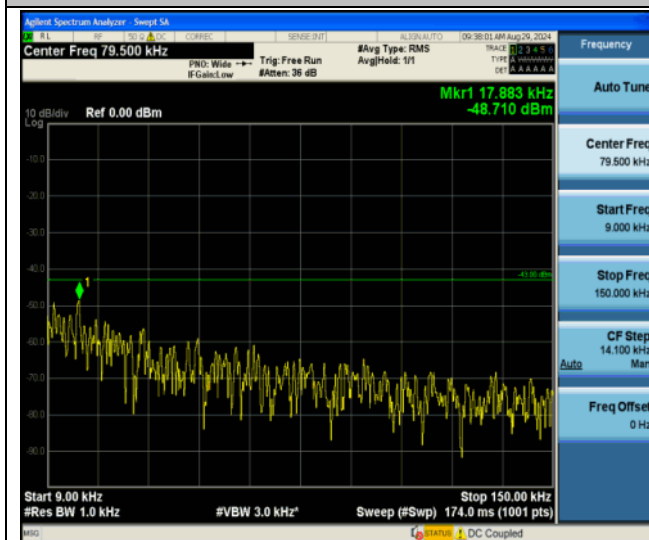
Band2-20MHz-QPSK-18900-1RB#0-30~1000-PASS



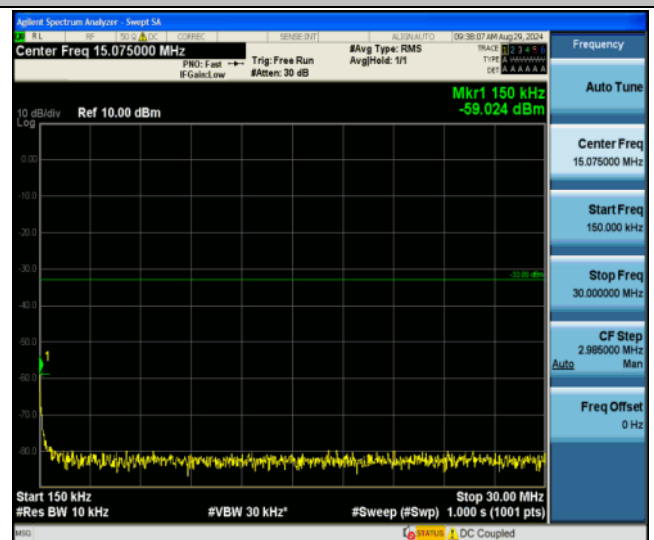
Band2-20MHz-QPSK-18900-1RB#0-1000~3000-PASS



Band2-20MHz-QPSK-18900-1RB#0-3000~20000-PASS



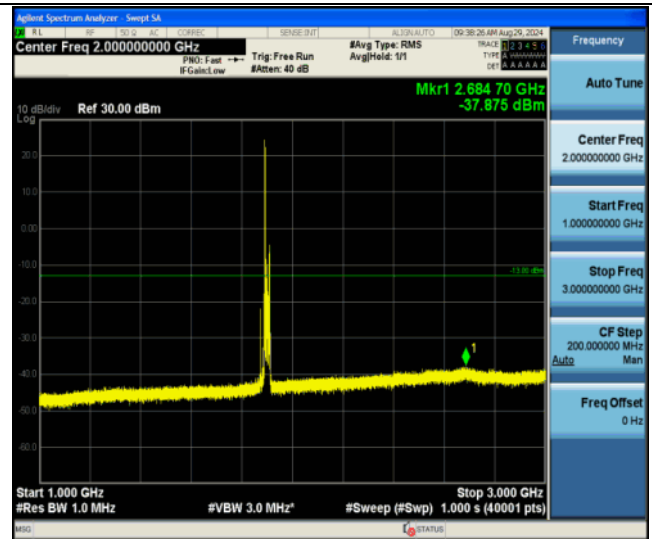
Band2-20MHz-QPSK-19100-1RB#0-0.009~0.15-PASS



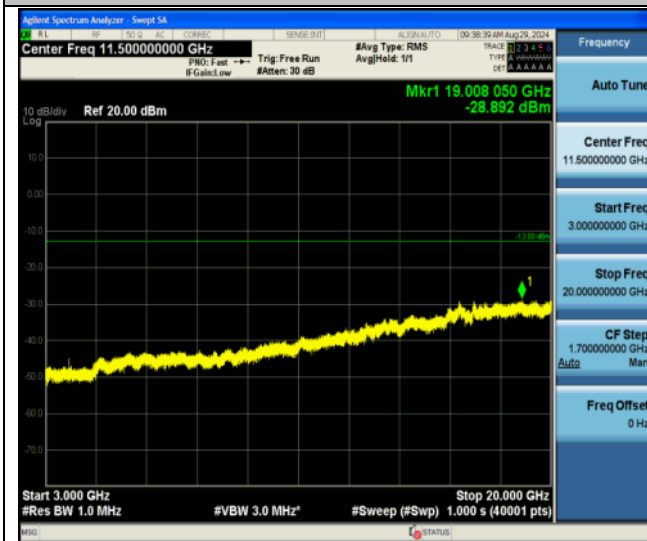
Band2-20MHz-QPSK-19100-1RB#0-0.15~30-PASS



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

Appendix F: 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	-4.60	-0.002447	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-3.90	-0.002074	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-9.60	-0.005106	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	-2.10	-0.001117	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-1.90	-0.001011	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-9.80	-0.005213	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-4.30	-0.002287	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-2.70	-0.001436	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-7.10	-0.003777	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-2.10	-0.001117	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-7.50	-0.003989	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-7.20	-0.003830	PASS