

Appendix-B 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	23.54	26.39	33.01	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.39	25.24	33.01	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.71	26.56	33.01	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.84	25.69	33.01	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.28	26.13	33.01	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.69	25.54	33.01	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.51	26.36	33.01	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.65	25.50	33.01	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.24	26.09	33.01	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	23.44	26.29	33.01	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	24.00	26.85	33.01	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.30	26.15	33.01	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.94	25.79	33.01	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.61	24.46	33.01	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	23.12	25.97	33.01	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.18	25.03	33.01	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.54	25.39	33.01	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.80	24.65	33.01	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	23.03	25.88	33.01	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.05	24.90	33.01	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.53	25.38	33.01	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	22.31	25.16	33.01	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	23.21	26.06	33.01	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.39	25.24	33.01	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.49	26.34	33.01	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.60	25.45	33.01	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.84	26.69	33.01	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.50	25.35	33.01	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.36	26.21	33.01	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.81	25.66	33.01	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.67	26.52	33.01	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.23	25.08	33.01	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.45	26.30	33.01	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.70	25.55	33.01	PASS
Band2	3MHz	QPSK	19185	1RB#8	24.24	27.09	33.01	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.85	25.70	33.01	PASS

Band2	3MHz	16QAM	18615	1RB#0	22.77	25.62	33.01	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.67	24.52	33.01	PASS
Band2	3MHz	16QAM	18615	1RB#8	23.22	26.07	33.01	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.87	24.72	33.01	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.52	25.37	33.01	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.94	24.79	33.01	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.94	25.79	33.01	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.66	24.51	33.01	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.74	25.59	33.01	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.70	24.55	33.01	PASS
Band2	3MHz	16QAM	19185	1RB#8	23.35	26.20	33.01	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.93	24.78	33.01	PASS
Band2	5MHz	QPSK	18625	1RB#0	24.08	26.93	33.01	PASS
Band2	5MHz	QPSK	18625	25RB#0	23.01	25.86	33.01	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.41	26.26	33.01	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.94	26.79	33.01	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.37	26.22	33.01	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.89	25.74	33.01	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.09	25.94	33.01	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.80	26.65	33.01	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.57	26.42	33.01	PASS
Band2	5MHz	QPSK	19175	25RB#0	23.28	26.13	33.01	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.52	26.37	33.01	PASS
Band2	5MHz	QPSK	19175	1RB#24	24.18	27.03	33.01	PASS
Band2	5MHz	16QAM	18625	1RB#0	23.39	26.24	33.01	PASS
Band2	5MHz	16QAM	18625	25RB#0	22.06	24.91	33.01	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.79	25.64	33.01	PASS
Band2	5MHz	16QAM	18625	1RB#24	23.19	26.04	33.01	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.47	25.32	33.01	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.85	24.70	33.01	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.50	25.35	33.01	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.98	25.83	33.01	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.67	25.52	33.01	PASS
Band2	5MHz	16QAM	19175	25RB#0	22.00	24.85	33.01	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.76	25.61	33.01	PASS
Band2	5MHz	16QAM	19175	1RB#24	23.38	26.23	33.01	PASS
Band2	10MHz	QPSK	18650	1RB#0	24.03	26.88	33.01	PASS
Band2	10MHz	QPSK	18650	50RB#0	23.05	25.90	33.01	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.74	26.59	33.01	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.64	26.49	33.01	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.46	26.31	33.01	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.74	25.59	33.01	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.53	26.38	33.01	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.83	26.68	33.01	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.70	26.55	33.01	PASS

Band2	10MHz	QPSK	19150	50RB#0	23.16	26.01	33.01	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.41	26.26	33.01	PASS
Band2	10MHz	QPSK	19150	1RB#49	24.28	27.13	33.01	PASS
Band2	10MHz	16QAM	18650	1RB#0	23.39	26.24	33.01	PASS
Band2	10MHz	16QAM	18650	27RB#0	21.87	24.72	33.01	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.04	25.89	33.01	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.68	25.53	33.01	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.53	25.38	33.01	PASS
Band2	10MHz	16QAM	18900	27RB#0	21.49	24.34	33.01	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.69	25.54	33.01	PASS
Band2	10MHz	16QAM	18900	1RB#49	23.17	26.02	33.01	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.73	25.58	33.01	PASS
Band2	10MHz	16QAM	19150	27RB#0	21.59	24.44	33.01	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.49	25.34	33.01	PASS
Band2	10MHz	16QAM	19150	1RB#49	23.42	26.27	33.01	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.89	26.74	33.01	PASS
Band2	15MHz	QPSK	18675	75RB#0	23.11	25.96	33.01	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.54	26.39	33.01	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.61	26.46	33.01	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.15	26.00	33.01	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.92	25.77	33.01	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.25	26.10	33.01	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.63	26.48	33.01	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.65	26.50	33.01	PASS
Band2	15MHz	QPSK	19125	75RB#0	23.29	26.14	33.01	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.31	26.16	33.01	PASS
Band2	15MHz	QPSK	19125	1RB#74	24.07	26.92	33.01	PASS
Band2	15MHz	16QAM	18675	1RB#0	23.22	26.07	33.01	PASS
Band2	15MHz	16QAM	18675	27RB#0	21.96	24.81	33.01	PASS
Band2	15MHz	16QAM	18675	1RB#38	19.95	22.80	33.01	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.11	24.96	33.01	PASS
Band2	15MHz	16QAM	18900	1RB#0	23.06	25.91	33.01	PASS
Band2	15MHz	16QAM	18900	27RB#0	21.45	24.30	33.01	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.83	25.68	33.01	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.59	25.44	33.01	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.46	25.31	33.01	PASS
Band2	15MHz	16QAM	19125	27RB#0	22.00	24.85	33.01	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.74	25.59	33.01	PASS
Band2	15MHz	16QAM	19125	1RB#74	23.24	26.09	33.01	PASS
Band2	20MHz	QPSK	18700	1RB#0	24.12	26.97	33.01	PASS
Band2	20MHz	QPSK	18700	100RB#0	23.07	25.92	33.01	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.81	26.66	33.01	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.53	26.38	33.01	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.03	25.88	33.01	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.85	25.70	33.01	PASS

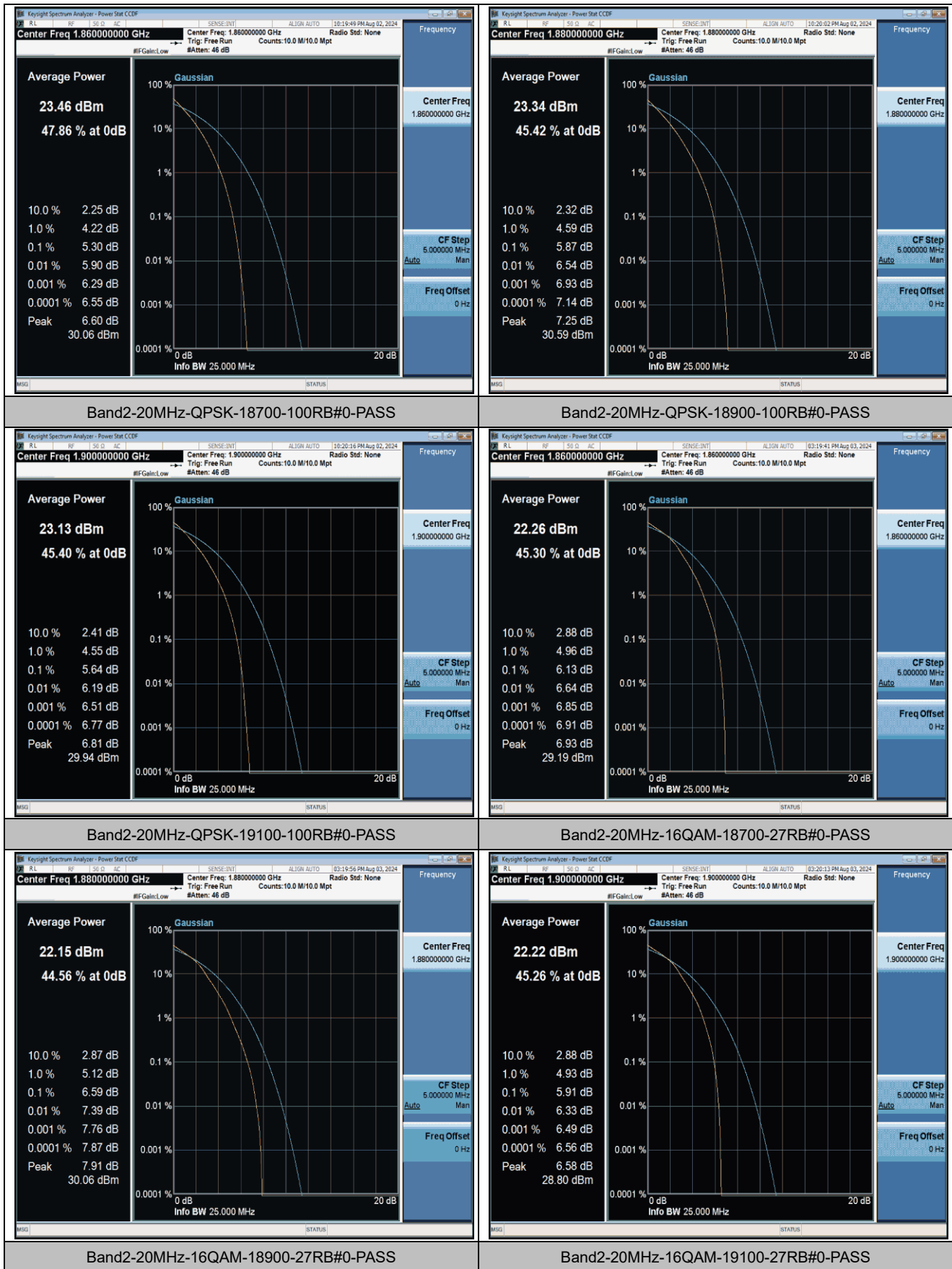
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Band2	20MHz	QPSK	18900	1RB#99	23.95	26.80	33.01	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.53	26.38	33.01	PASS
Band2	20MHz	QPSK	19100	100RB#0	23.15	26.00	33.01	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.50	26.35	33.01	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.68	26.53	33.01	PASS
Band2	20MHz	16QAM	18700	1RB#0	23.24	26.09	33.01	PASS
Band2	20MHz	16QAM	18700	27RB#0	18.48	21.33	33.01	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.93	25.78	33.01	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.57	25.42	33.01	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.26	25.11	33.01	PASS
Band2	20MHz	16QAM	18900	27RB#0	21.45	24.30	33.01	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.68	25.53	33.01	PASS
Band2	20MHz	16QAM	18900	1RB#99	23.01	25.86	33.01	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.98	25.83	33.01	PASS
Band2	20MHz	16QAM	19100	27RB#0	22.09	24.94	33.01	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.90	25.75	33.01	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.82	25.67	33.01	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	5.30	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.87	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.64	13	PASS
Band2	20MHz	16QAM	18700	27RB#0	6.13	13	PASS
Band2	20MHz	16QAM	18900	27RB#0	6.59	13	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.91	13	PASS

Test Graphs

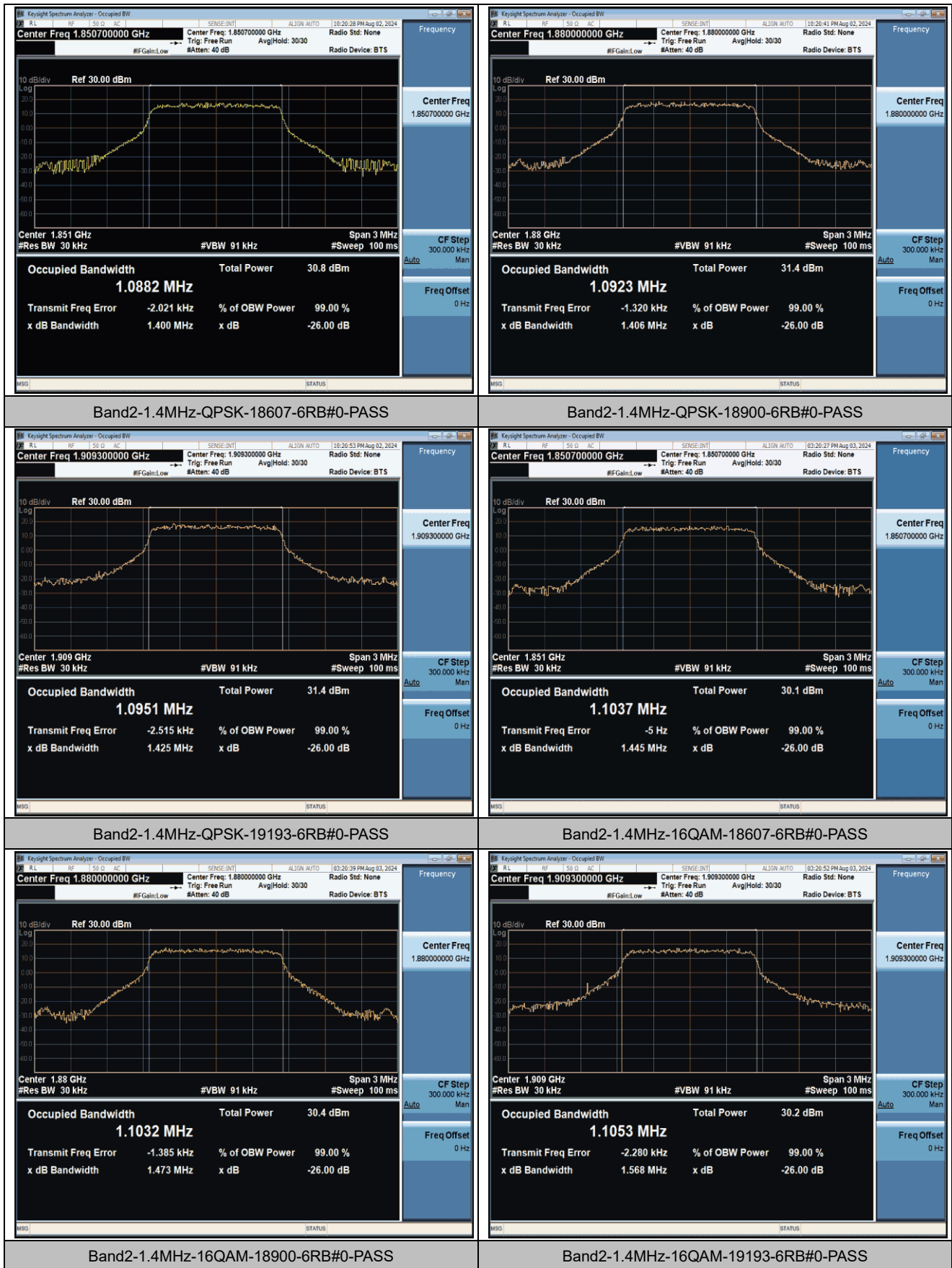


26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0882	1.400	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0923	1.406	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0951	1.425	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.1037	1.445	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.1032	1.473	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.1053	1.568	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6880	3.161	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6926	3.171	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6832	3.123	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6822	3.142	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6854	3.154	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6841	3.173	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4804	5.054	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4760	5.079	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4776	5.101	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.4726	5.073	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4757	5.065	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.4779	5.080	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9276	9.661	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9318	9.693	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9284	9.733	PASS
Band2	10MHz	16QAM	18650	27RB#0	5.2652	8.950	PASS
Band2	10MHz	16QAM	18900	27RB#0	5.2398	8.347	PASS
Band2	10MHz	16QAM	19150	27RB#0	5.3574	9.121	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.562	16.44	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.556	16.41	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.579	16.67	PASS
Band2	15MHz	16QAM	18675	27RB#0	6.1302	12.97	PASS
Band2	15MHz	16QAM	18900	27RB#0	6.0037	8.877	PASS
Band2	15MHz	16QAM	19125	27RB#0	5.6452	8.162	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.971	21.01	PASS
Band2	20MHz	QPSK	18900	100RB#0	18.018	21.16	PASS
Band2	20MHz	QPSK	19100	100RB#0	18.050	21.25	PASS
Band2	20MHz	16QAM	18700	27RB#0	7.6239	11.66	PASS
Band2	20MHz	16QAM	18900	27RB#0	7.3604	10.15	PASS
Band2	20MHz	16QAM	19100	27RB#0	6.3923	9.440	PASS

Test Graphs

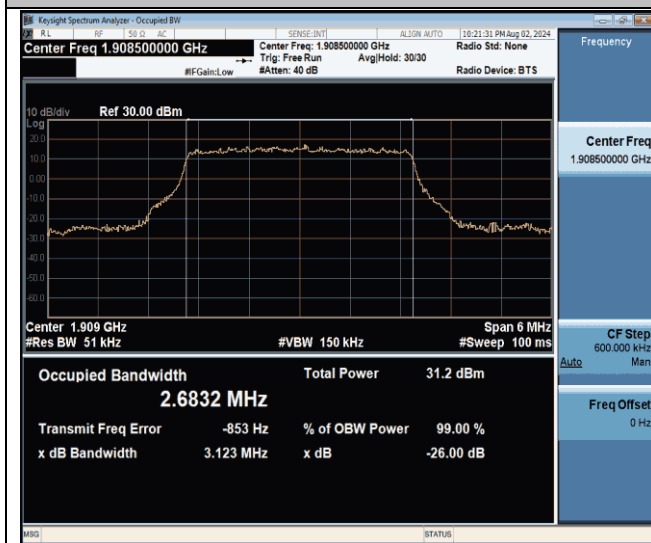




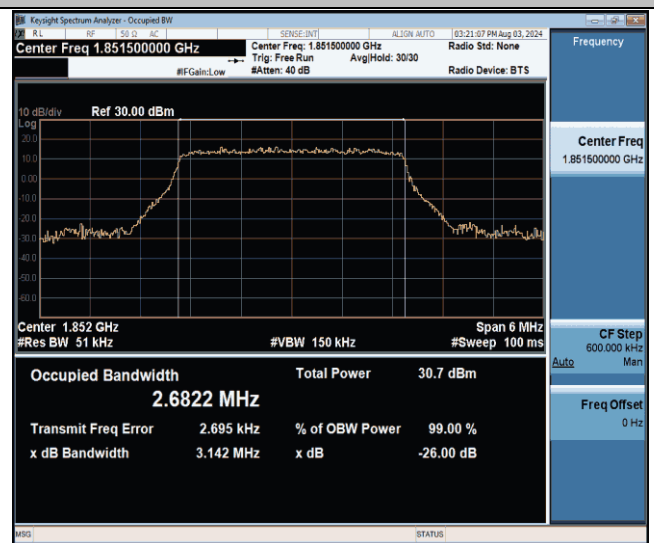
Band2-3MHz-QPSK-18615-15RB#0-PASS



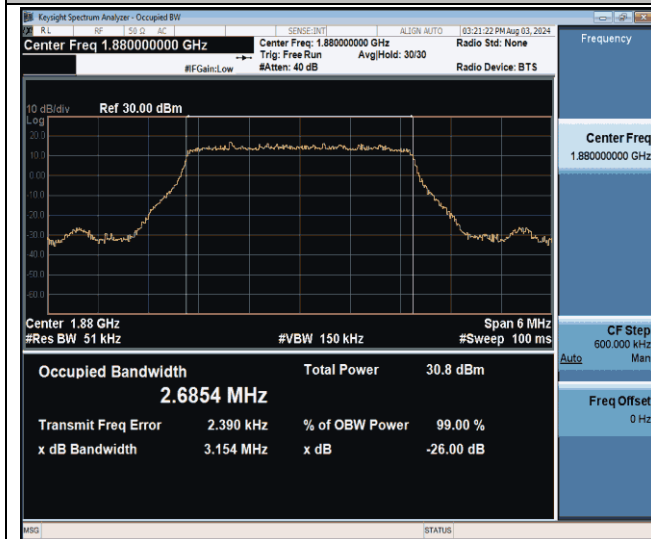
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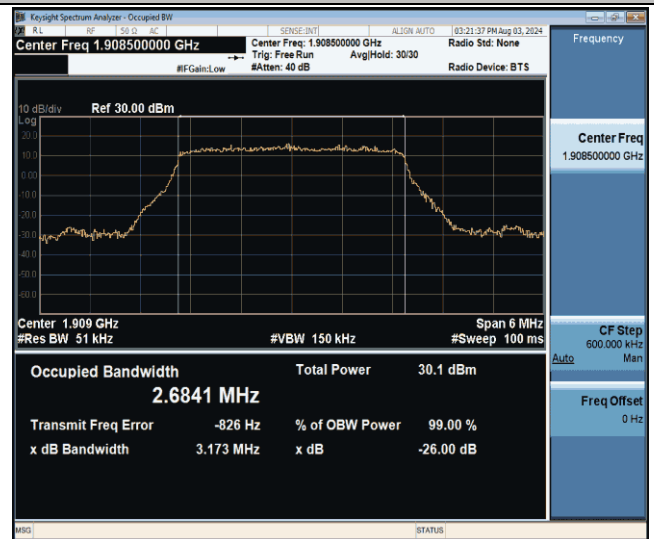
Band2-3MHz-QPSK-19185-15RB#0-PASS



Band2-3MHz-16QAM-18615-15RB#0-PASS



Band2-3MHz-16QAM-18900-15RB#0-PASS



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



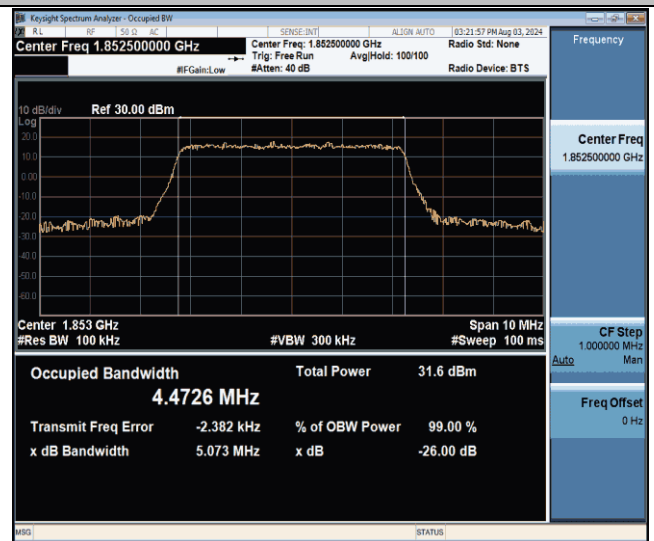
Band2-5MHz-QPSK-18625-25RB#0-PASS



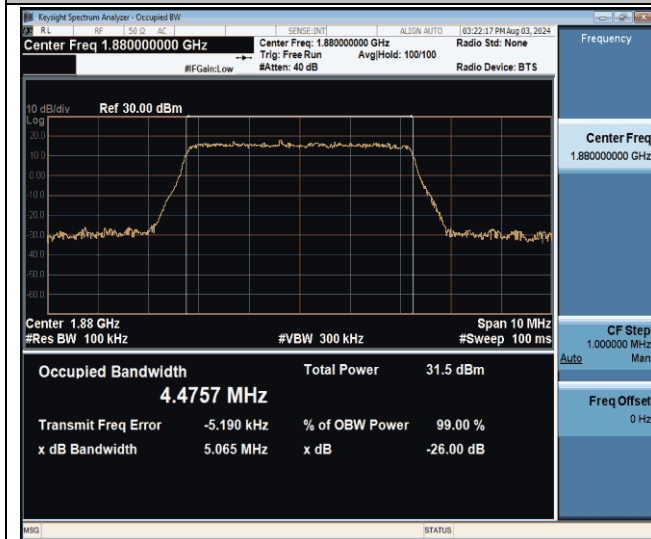
Band2-5MHz-QPSK-18900-25RB#0-PASS



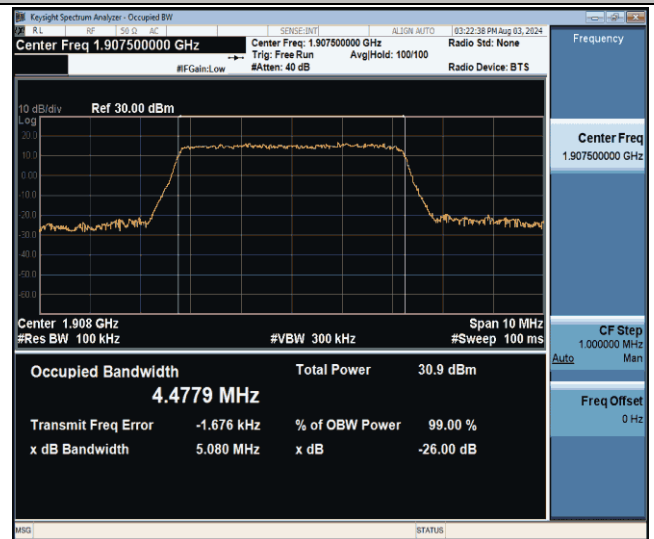
Band2-5MHz-QPSK-19175-25RB#0-PASS



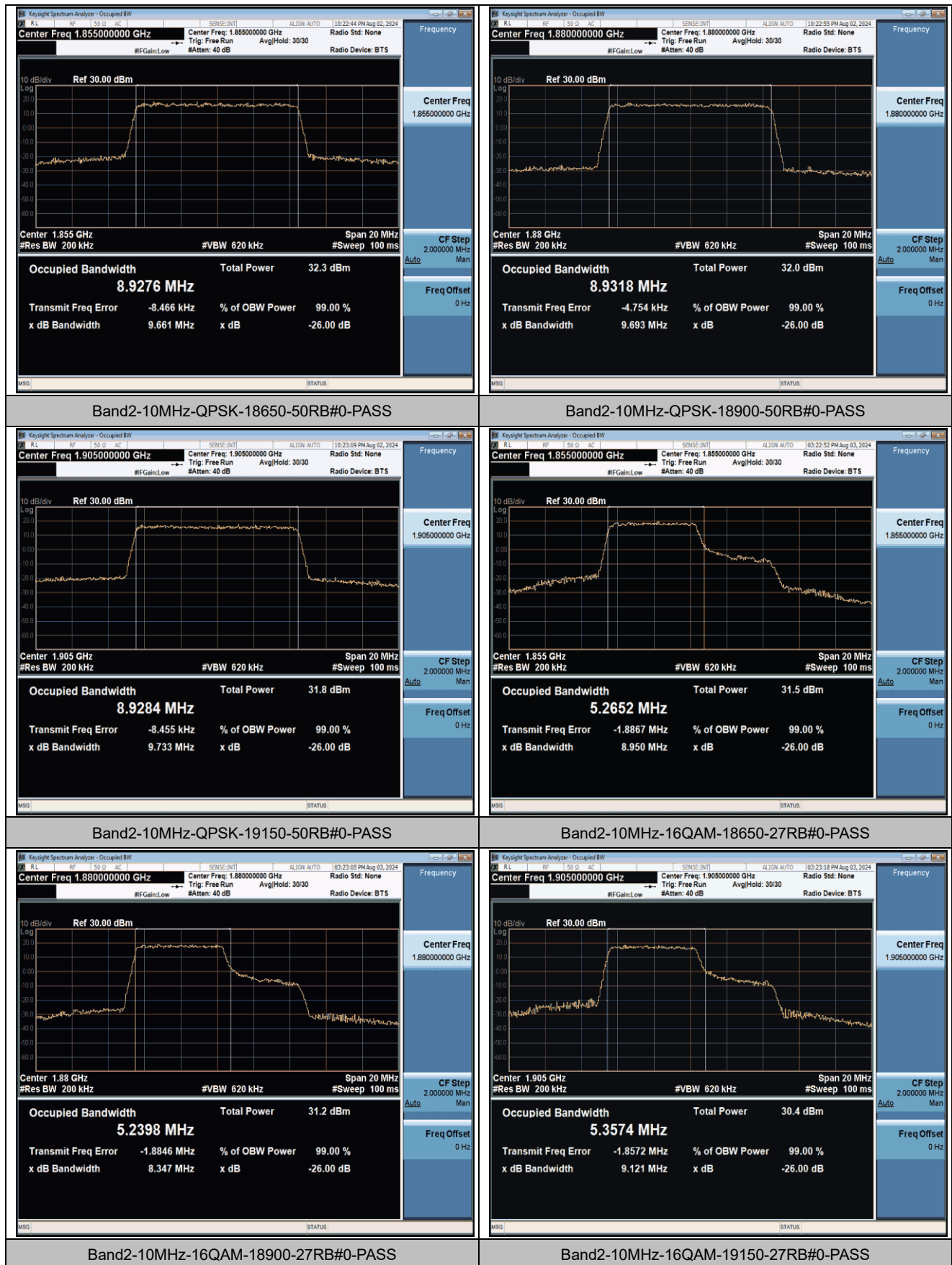
Band2-5MHz-16QAM-18625-25RB#0-PASS



Band2-5MHz-16QAM-18900-25RB#0-PASS



Band2-5MHz-16QAM-19175-25RB#0-PASS





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



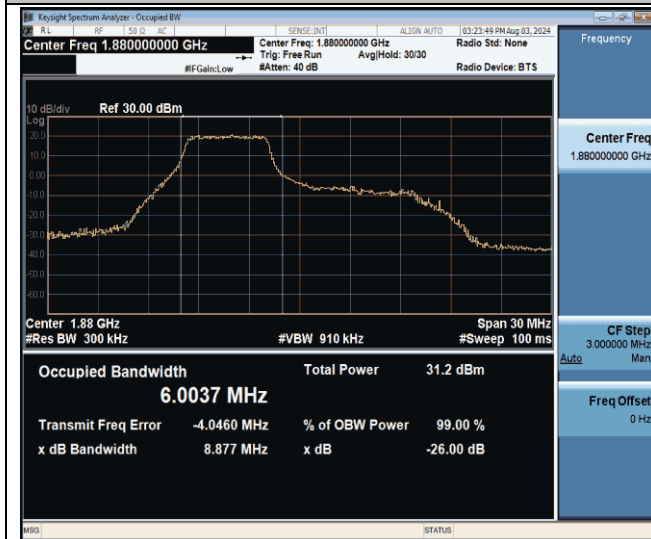
Band2-15MHz-QPSK-18900-75RB#0-PASS



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



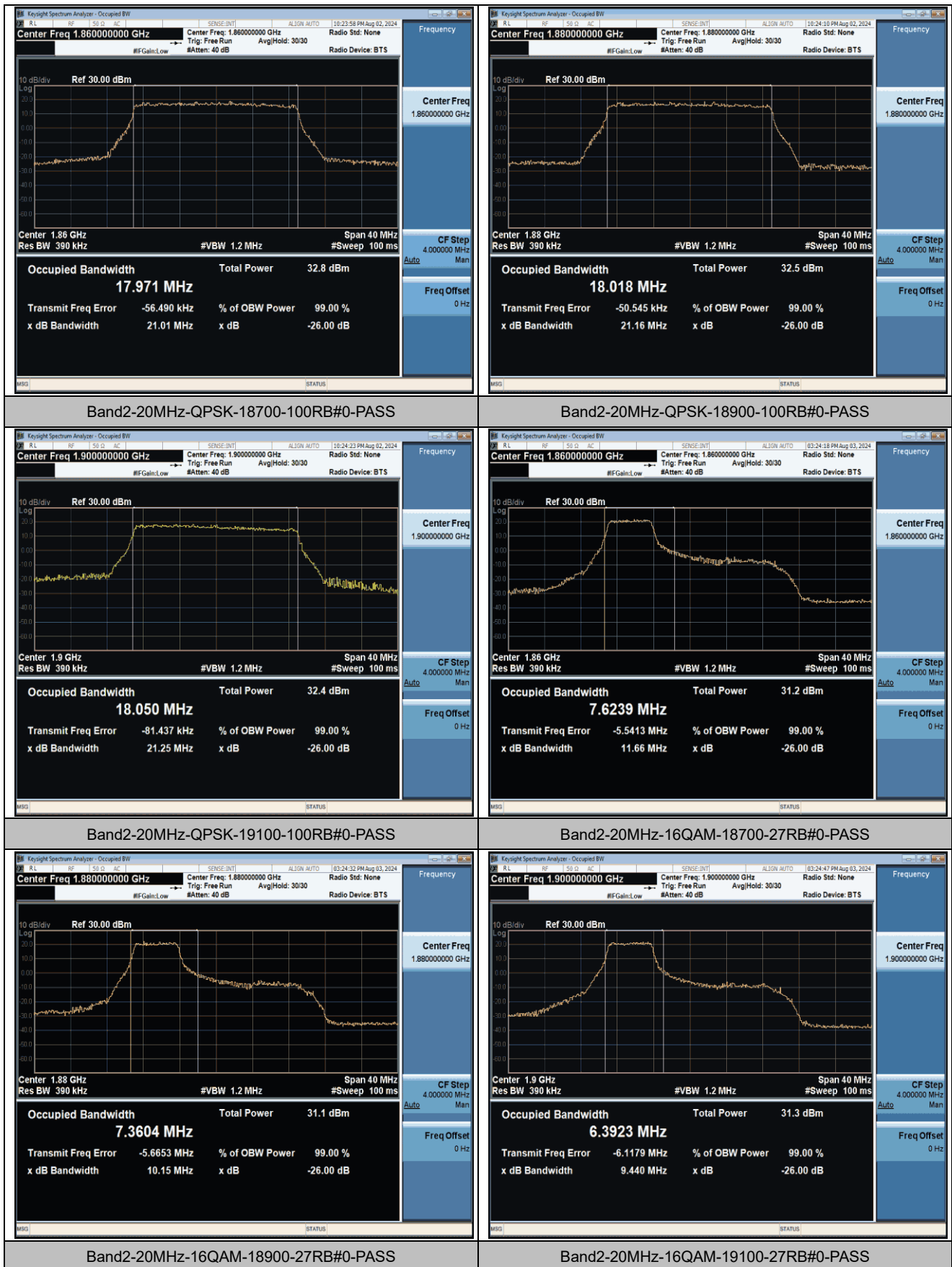
Band2-15MHz-16QAM-18675-27RB#0-PASS



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

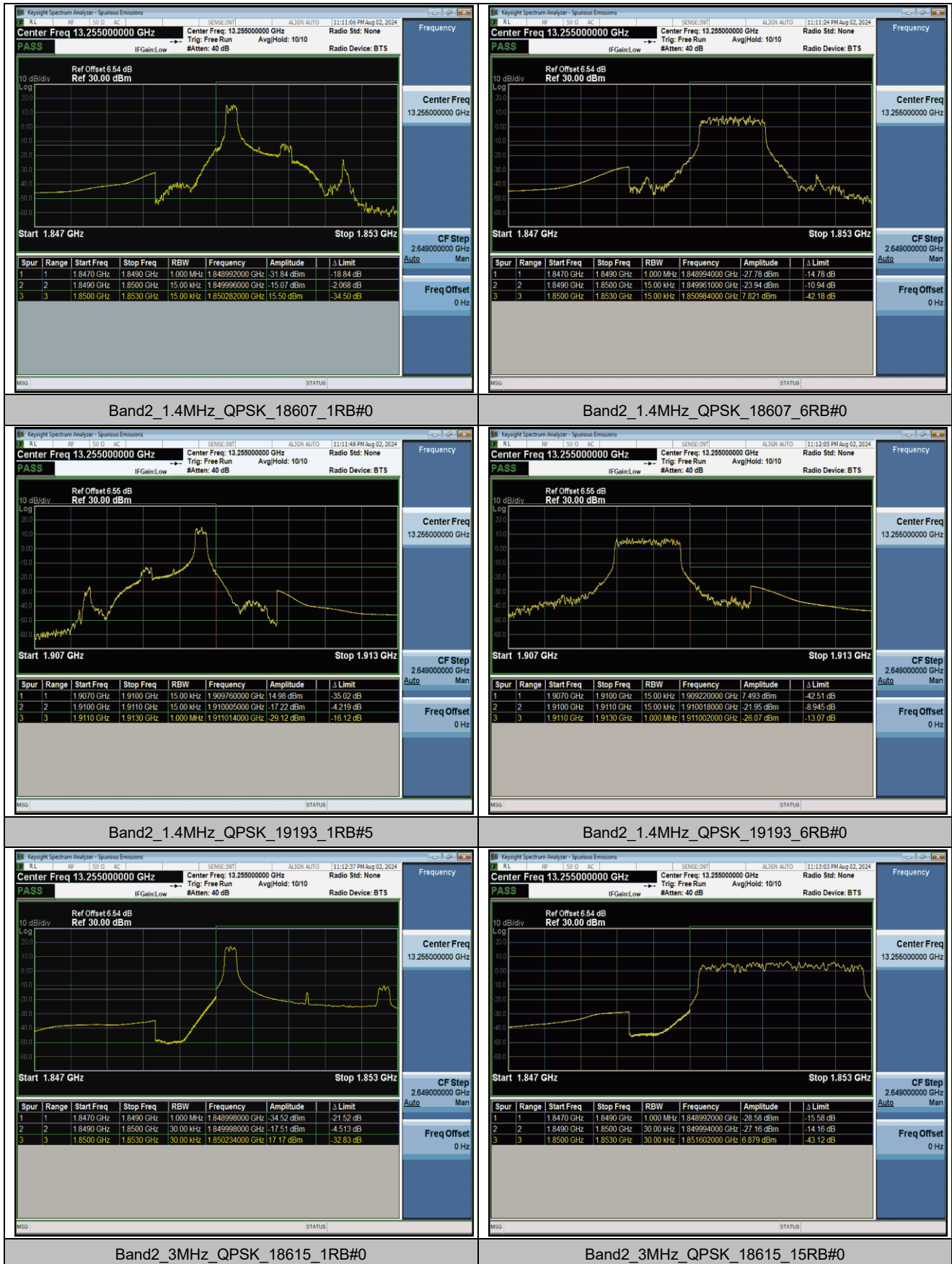


Band2-15MHz-16QAM-19125-27RB#0-PASS



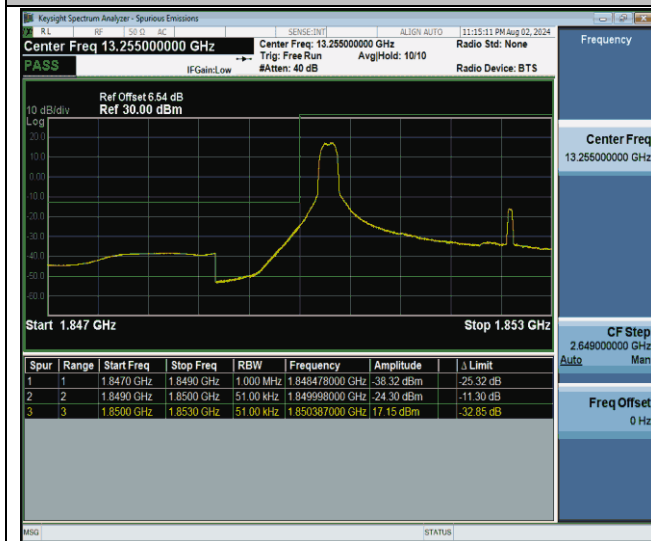
Band Edge

Test Graphs





Band2_3MHz_QPSK_19185_1RB#14



Band2_3MHz_QPSK_19185_15RB#0

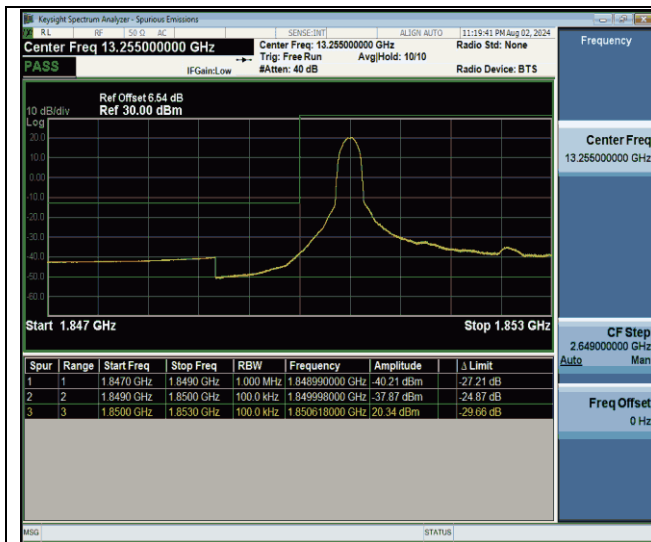
Band2_5MHz_QPSK_18625_1RB#0



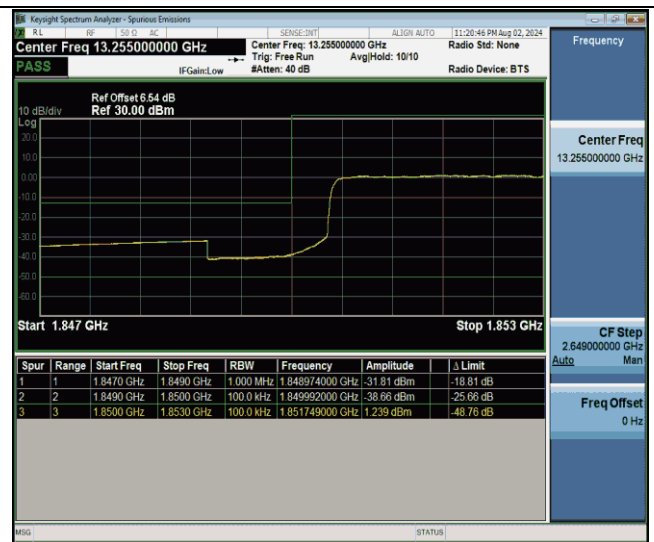
Band2_5MHz_QPSK_18625_25RB#0

Band2_5MHz_QPSK_19175_1RB#24

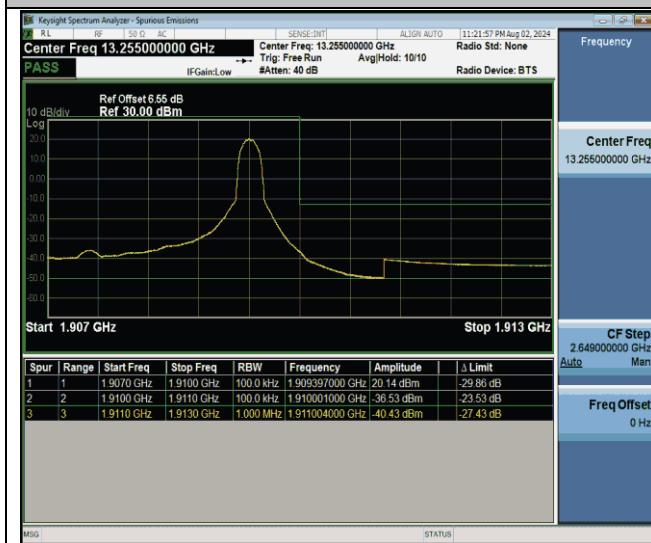
Band2_5MHz_QPSK_19175_25RB#0



Band2_10MHz_QPSK_18650_1RB#0



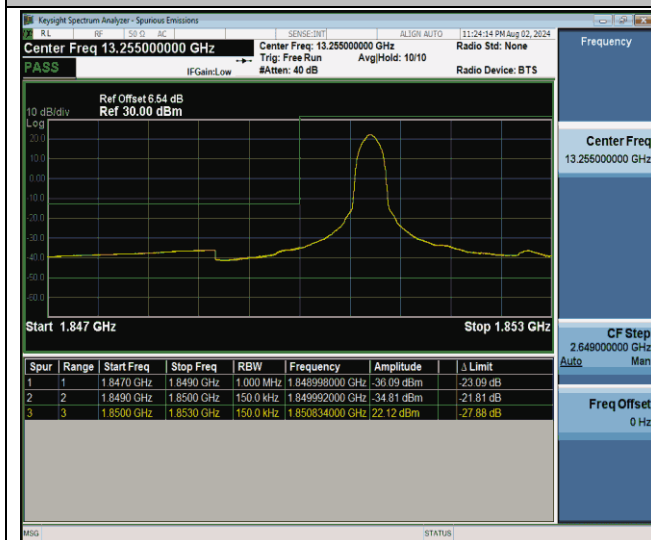
Band2_10MHz_QPSK_18650_50RB#0



Band2_10MHz_QPSK_19150_1RB#49



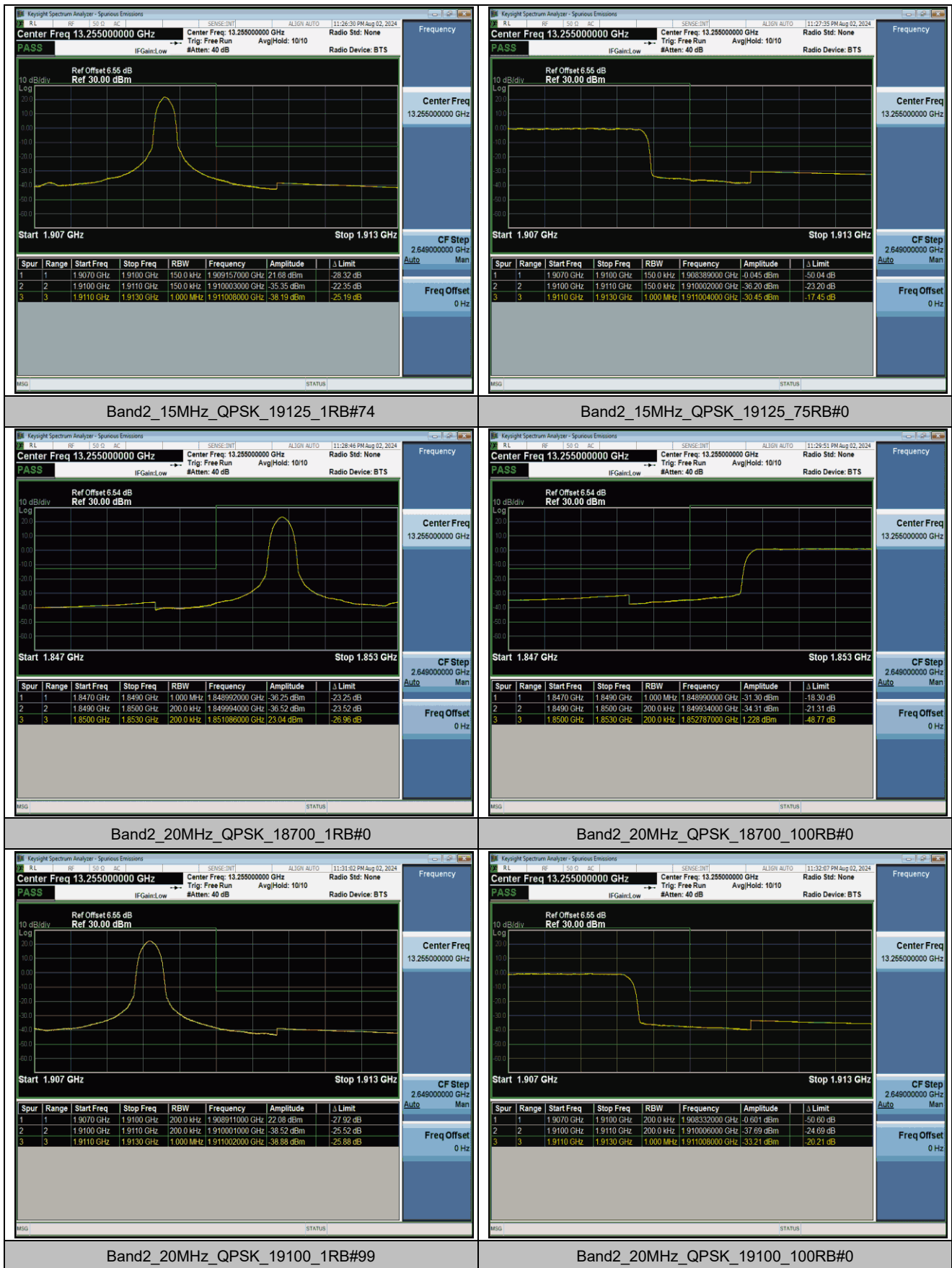
Band2_10MHz_QPSK_19150_50RB#0



Band2_15MHz_QPSK_18675_1RB#0

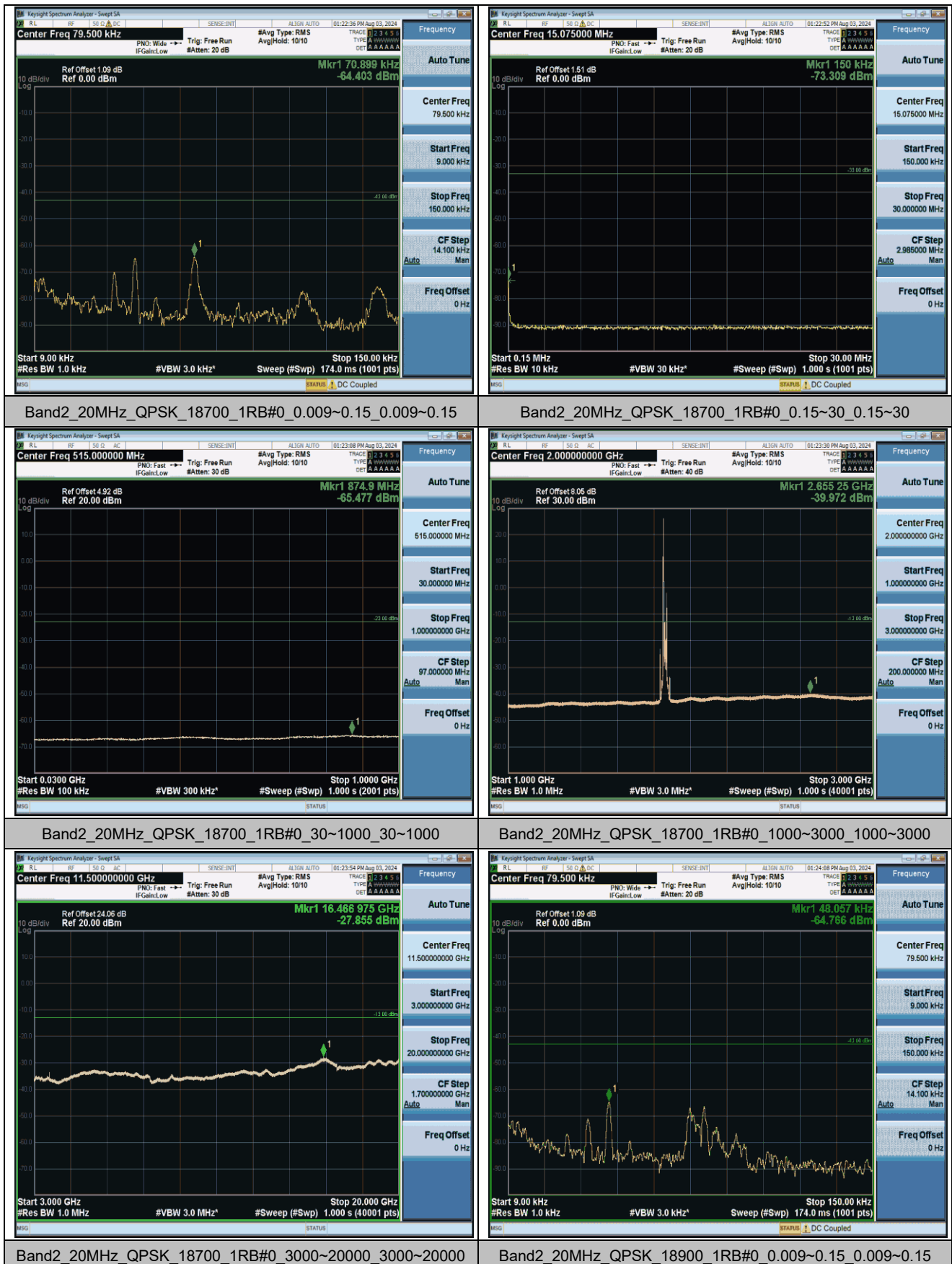


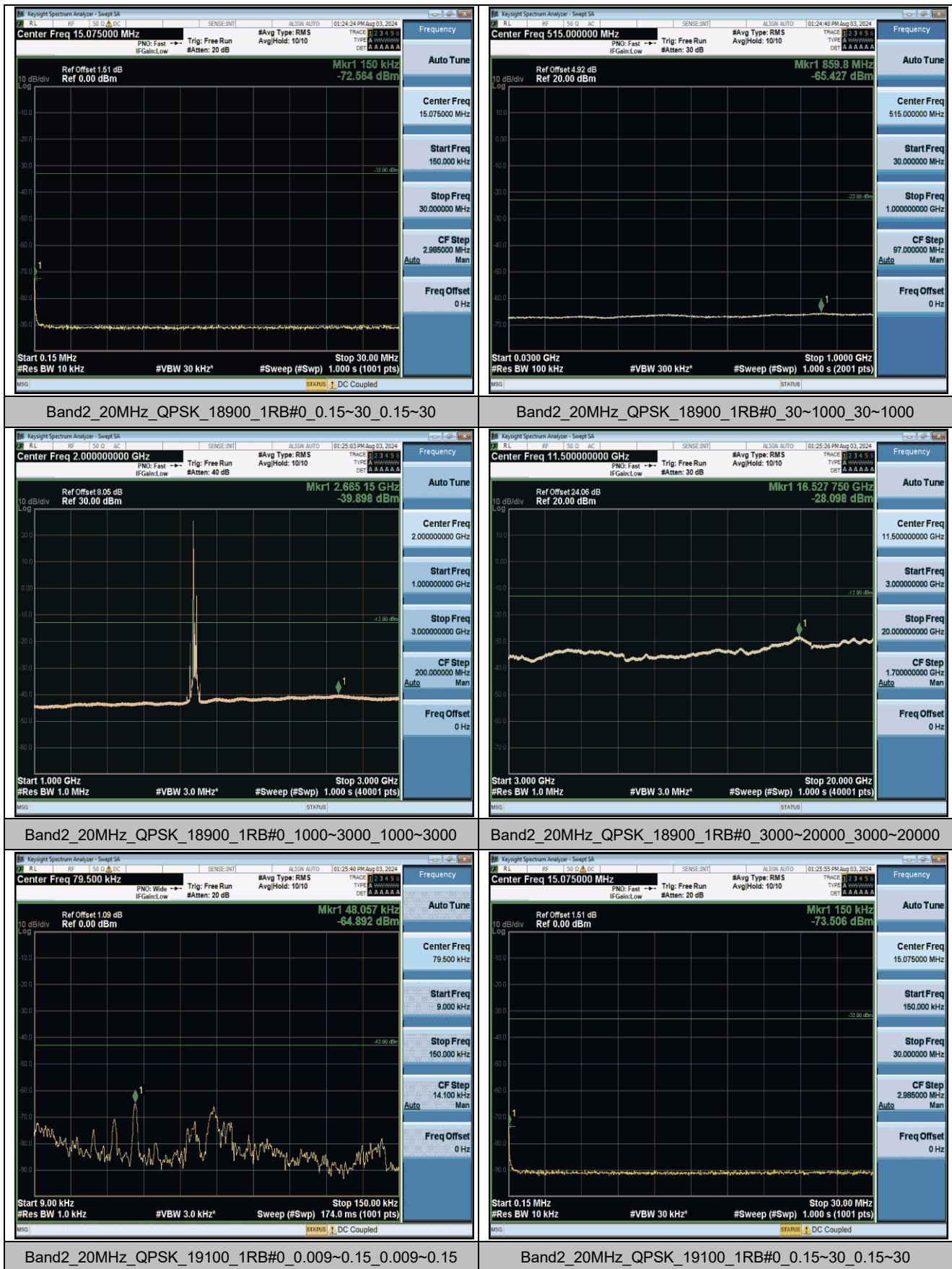
Band2_15MHz_QPSK_18675_75RB#0



Conducted Spurious Emission

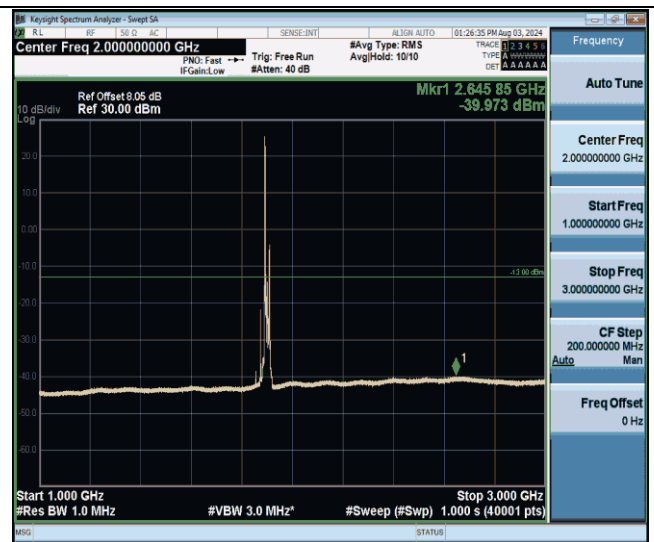
Test Graphs







Band2_20MHz_QPSK_19100_1RB#0_30~1000_30~1000



Band2_20MHz_QPSK_19100_1RB#0_1000~3000_1000~3000



Band2_20MHz_QPSK_19100_1RB#0_3000~20000_3000~20000

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	-17.35	-0.009229	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-9.41	-0.005005	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	11.00	0.005851	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	-13.25	-0.007048	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-8.70	-0.004628	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-6.92	-0.003681	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-10.24	-0.005447	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	8.84	0.004702	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-9.18	-0.004883	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-14.22	-0.007564	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-6.62	-0.003521	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-8.71	-0.004633	PASS