

Appendix-B LTE Cat M1 Band 26

(814-824)

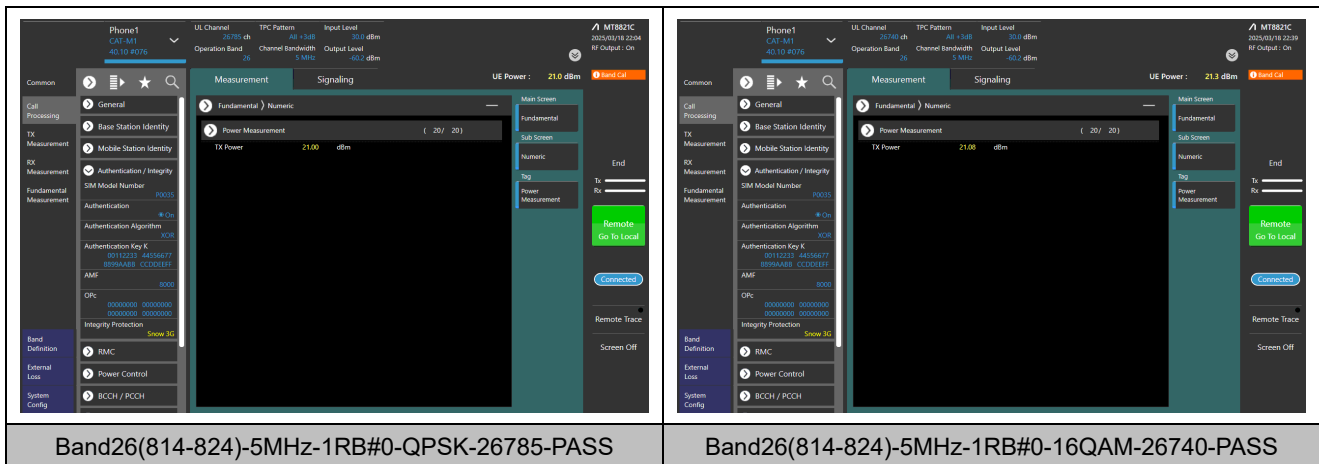
Transmitter Conducted Output Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Power (dBm)	Limit (dBm)	Verdict
Band26(814-824)	1.4MHz	QPSK	26697	1	0	Low	20.74	50	PASS
Band26(814-824)	1.4MHz	QPSK	26697	1	5	Low	20.59	50	PASS
Band26(814-824)	1.4MHz	QPSK	26697	6	0	Low	20.21	50	PASS
Band26(814-824)	1.4MHz	QPSK	26740	1	0	Low	20.77	50	PASS
Band26(814-824)	1.4MHz	QPSK	26740	1	5	Low	20.68	50	PASS
Band26(814-824)	1.4MHz	QPSK	26740	6	0	Low	20.27	50	PASS
Band26(814-824)	1.4MHz	QPSK	26783	1	0	High	20.89	50	PASS
Band26(814-824)	1.4MHz	QPSK	26783	1	5	High	20.7	50	PASS
Band26(814-824)	1.4MHz	QPSK	26783	6	0	High	20.27	50	PASS
Band26(814-824)	3MHz	QPSK	26705	1	0	Low	20.76	50	PASS
Band26(814-824)	3MHz	QPSK	26705	1	5	Low	20.61	50	PASS
Band26(814-824)	3MHz	QPSK	26705	6	0	Low	20.2	50	PASS
Band26(814-824)	3MHz	QPSK	26740	1	0	Low	20.88	50	PASS
Band26(814-824)	3MHz	QPSK	26740	1	5	Low	20.67	50	PASS
Band26(814-824)	3MHz	QPSK	26740	6	0	Low	20.25	50	PASS
Band26(814-824)	3MHz	QPSK	26775	1	0	High	20.89	50	PASS
Band26(814-824)	3MHz	QPSK	26775	1	5	High	20.73	50	PASS
Band26(814-824)	3MHz	QPSK	26775	6	0	High	20.13	50	PASS
Band26(814-824)	5MHz	QPSK	26715	1	0	Low	20.82	50	PASS
Band26(814-824)	5MHz	QPSK	26715	1	5	Low	20.67	50	PASS
Band26(814-824)	5MHz	QPSK	26715	6	0	Low	20.31	50	PASS
Band26(814-824)	5MHz	QPSK	26740	1	0	Low	20.97	50	PASS
Band26(814-824)	5MHz	QPSK	26740	1	5	Low	20.76	50	PASS
Band26(814-824)	5MHz	QPSK	26740	6	0	Low	20.35	50	PASS
Band26(814-824)	5MHz	QPSK	26785	1	0	High	21	50	PASS
Band26(814-824)	5MHz	QPSK	26785	1	5	High	20.82	50	PASS
Band26(814-824)	5MHz	QPSK	26785	6	0	High	20.37	50	PASS
Band26(814-824)	10MHz	QPSK	26740	1	0	Low	20.96	50	PASS
Band26(814-824)	10MHz	QPSK	26740	1	5	Low	20.68	50	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	20.39	50	PASS
Band26(814-824)	1.4MHz	16QAM	26697	1	0	Low	20.18	50	PASS
Band26(814-824)	1.4MHz	16QAM	26697	1	5	Low	20.16	50	PASS
Band26(814-824)	1.4MHz	16QAM	26697	5	0	Low	20.38	50	PASS
Band26(814-824)	1.4MHz	16QAM	26740	1	0	Low	20.03	50	PASS

Band26(814-824)	1.4MHz	16QAM	26740	1	5	Low	20	50	PASS
Band26(814-824)	1.4MHz	16QAM	26740	5	0	Low	20.33	50	PASS
Band26(814-824)	1.4MHz	16QAM	26783	1	0	High	20.07	50	PASS
Band26(814-824)	1.4MHz	16QAM	26783	1	5	High	20.09	50	PASS
Band26(814-824)	1.4MHz	16QAM	26783	5	0	High	20.27	50	PASS
Band26(814-824)	3MHz	16QAM	26705	1	0	Low	20.03	50	PASS
Band26(814-824)	3MHz	16QAM	26705	1	5	Low	20.14	50	PASS
Band26(814-824)	3MHz	16QAM	26705	5	0	Low	20.37	50	PASS
Band26(814-824)	3MHz	16QAM	26740	1	0	Low	20.05	50	PASS
Band26(814-824)	3MHz	16QAM	26740	1	5	Low	20.06	50	PASS
Band26(814-824)	3MHz	16QAM	26740	5	0	Low	20.36	50	PASS
Band26(814-824)	3MHz	16QAM	26775	1	0	High	20.07	50	PASS
Band26(814-824)	3MHz	16QAM	26775	1	5	High	20.02	50	PASS
Band26(814-824)	3MHz	16QAM	26775	5	0	High	20.24	50	PASS
Band26(814-824)	5MHz	16QAM	26715	1	0	Low	20.71	50	PASS
Band26(814-824)	5MHz	16QAM	26715	1	5	Low	20.83	50	PASS
Band26(814-824)	5MHz	16QAM	26715	5	0	Low	20.01	50	PASS
Band26(814-824)	5MHz	16QAM	26740	1	0	Low	21.08	50	PASS
Band26(814-824)	5MHz	16QAM	26740	1	5	Low	20.81	50	PASS
Band26(814-824)	5MHz	16QAM	26740	5	0	Low	20.01	50	PASS
Band26(814-824)	5MHz	16QAM	26785	1	0	High	21.07	50	PASS
Band26(814-824)	5MHz	16QAM	26785	1	5	High	20.9	50	PASS
Band26(814-824)	5MHz	16QAM	26785	5	0	High	20.02	50	PASS
Band26(814-824)	10MHz	16QAM	26740	1	0	Low	21.02	50	PASS
Band26(814-824)	10MHz	16QAM	26740	1	5	Low	20.79	50	PASS
Band26(814-824)	10MHz	16QAM	26740	5	0	Low	20.87	50	PASS

Test Graphs

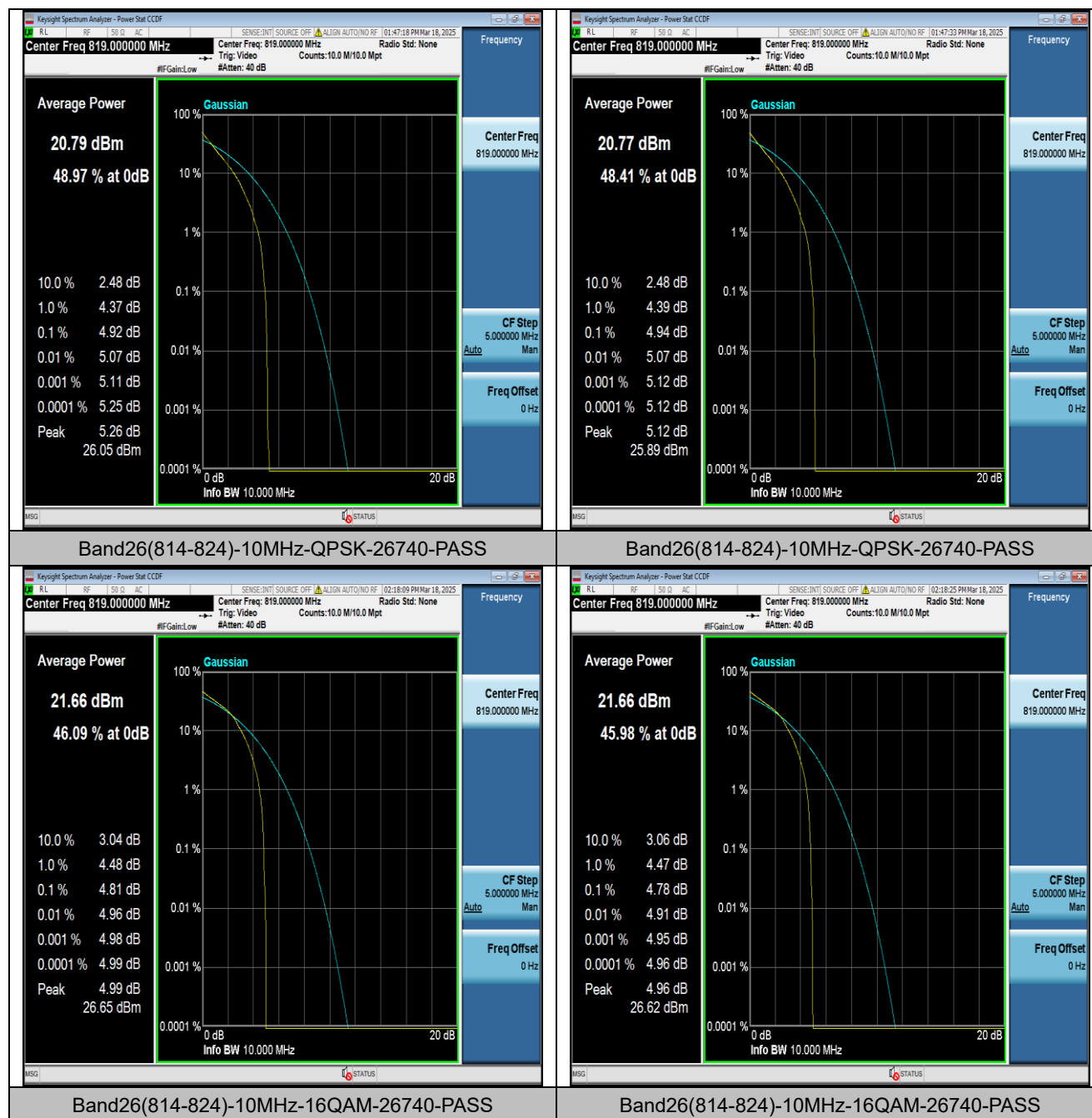


Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	4.92	<=13	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	High	4.94	<=13	PASS
Band26(814-824)	10MHz	16QAM	26740	5	0	Low	4.81	<=13	PASS
Band26(814-824)	10MHz	16QAM	26740	5	0	High	4.78	<=13	PASS

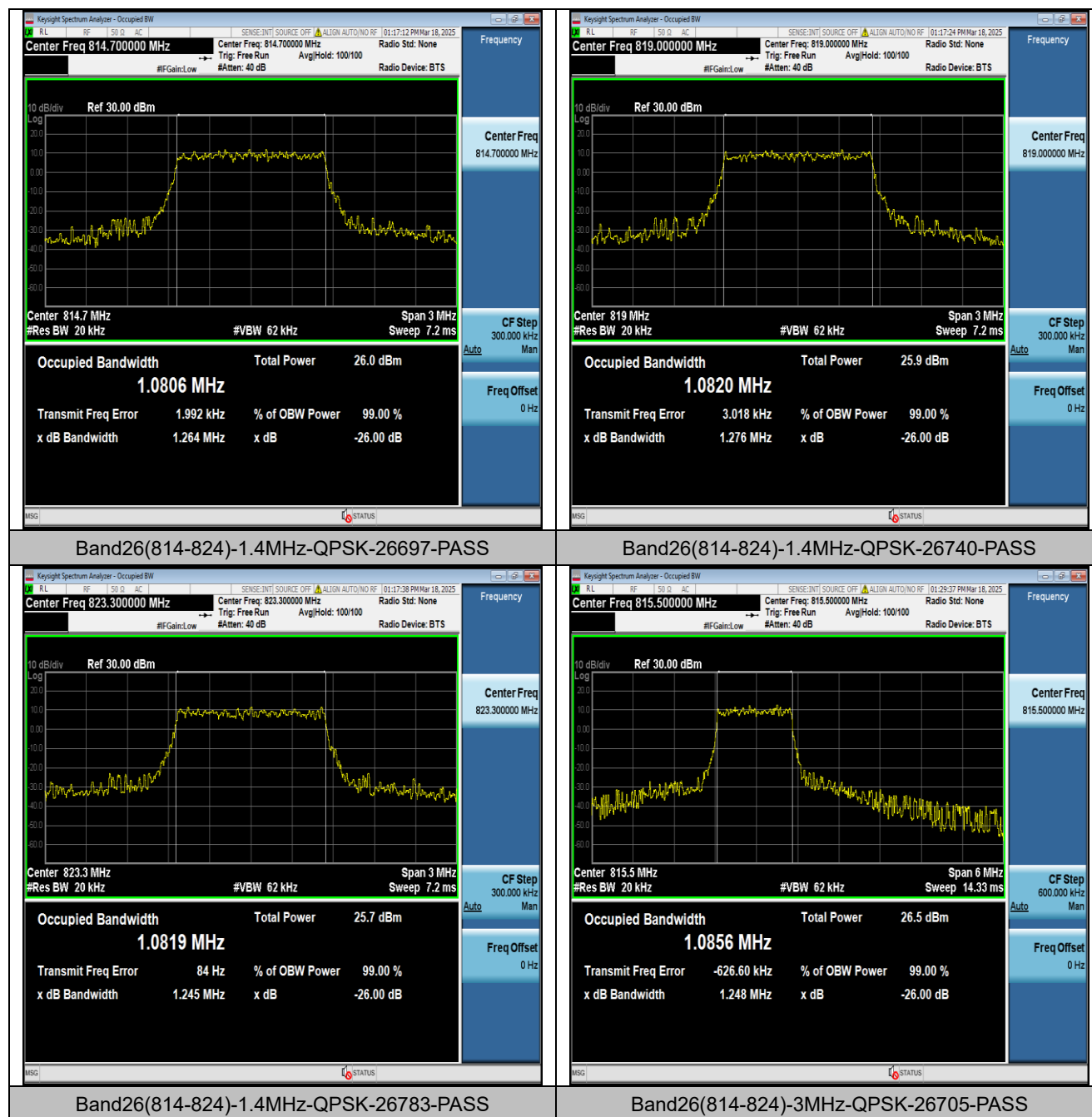
Test Graphs

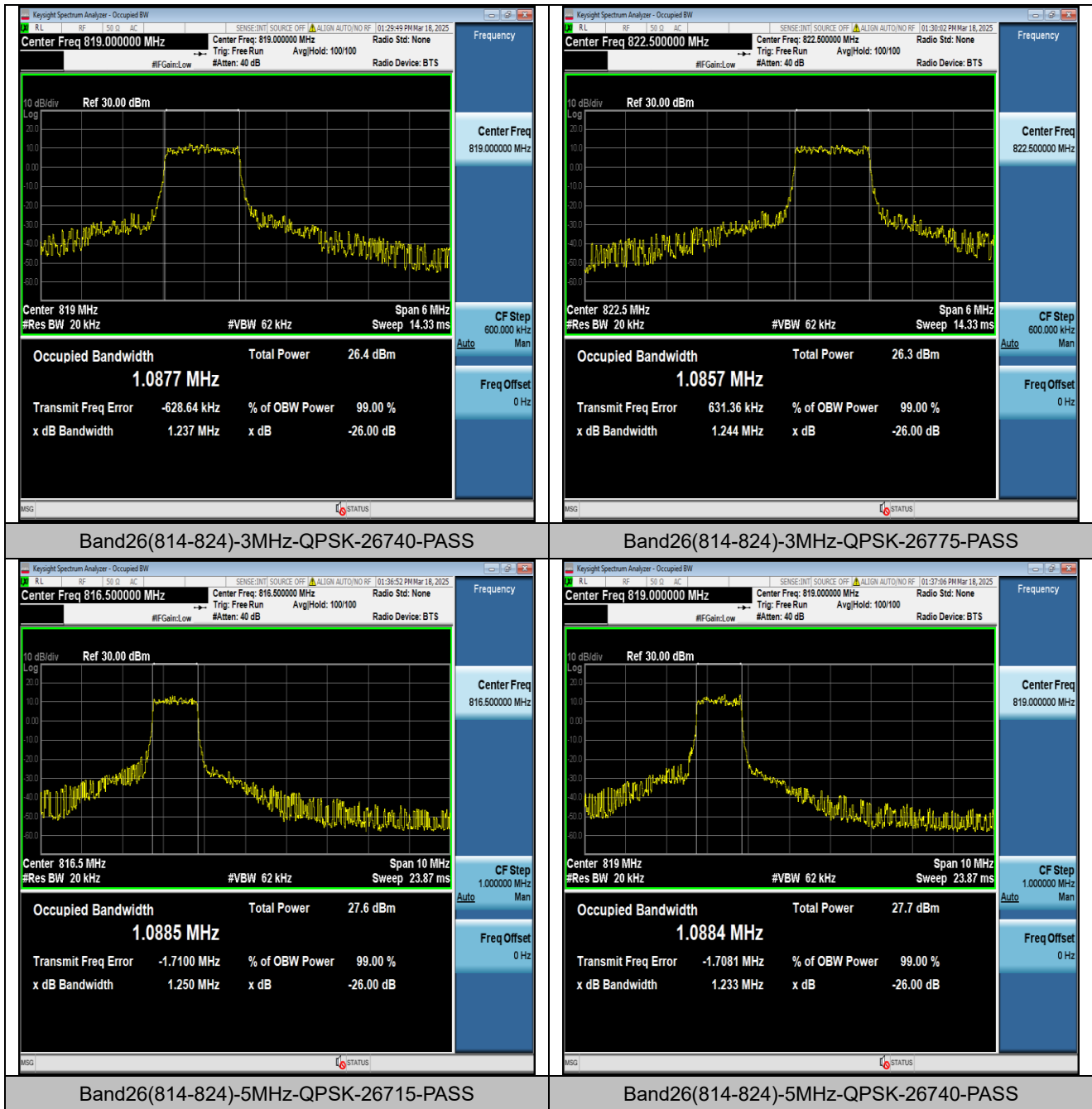


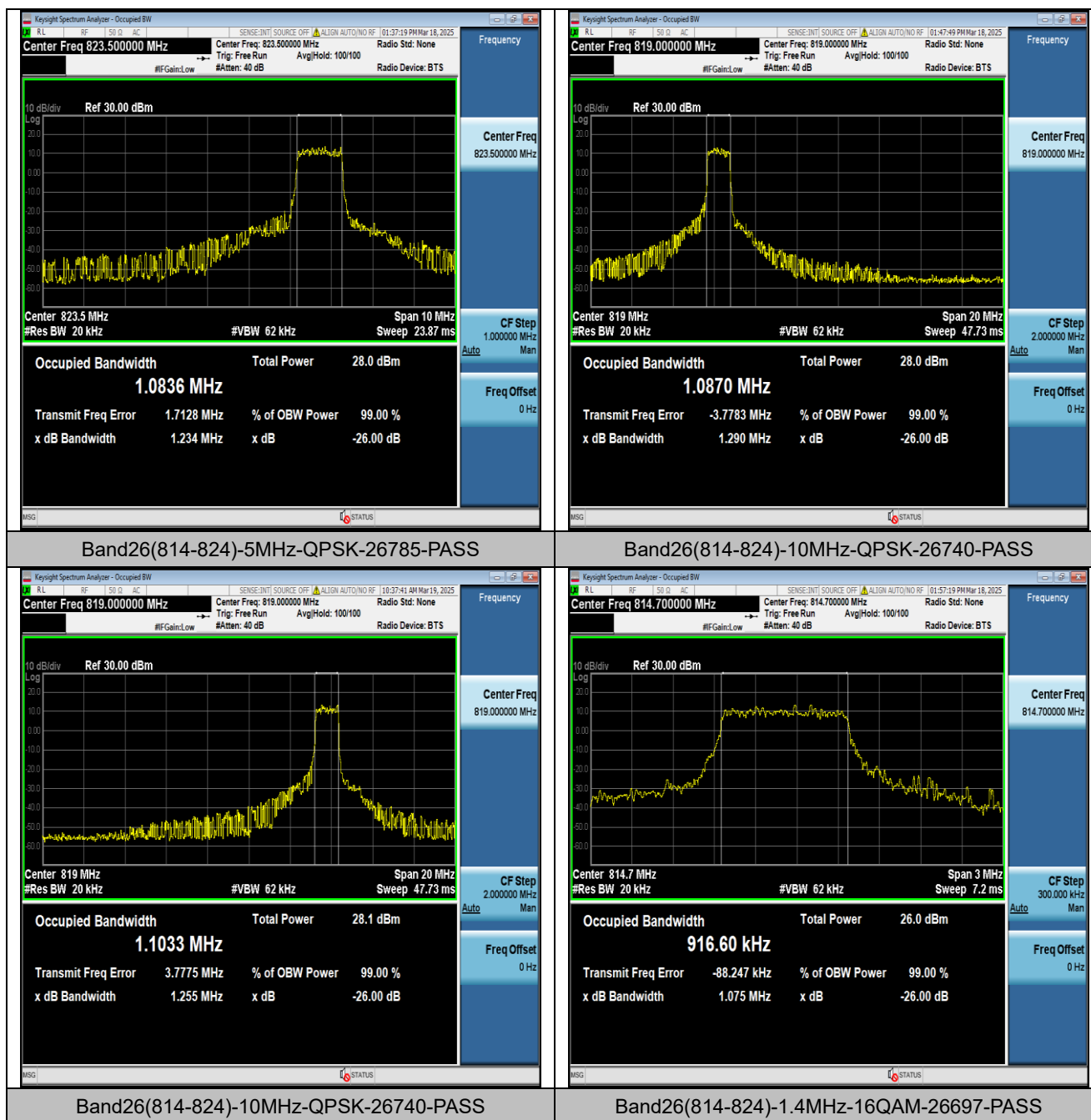
26dB Bandwidth and Occupied Bandwidth for M1**Test Result**

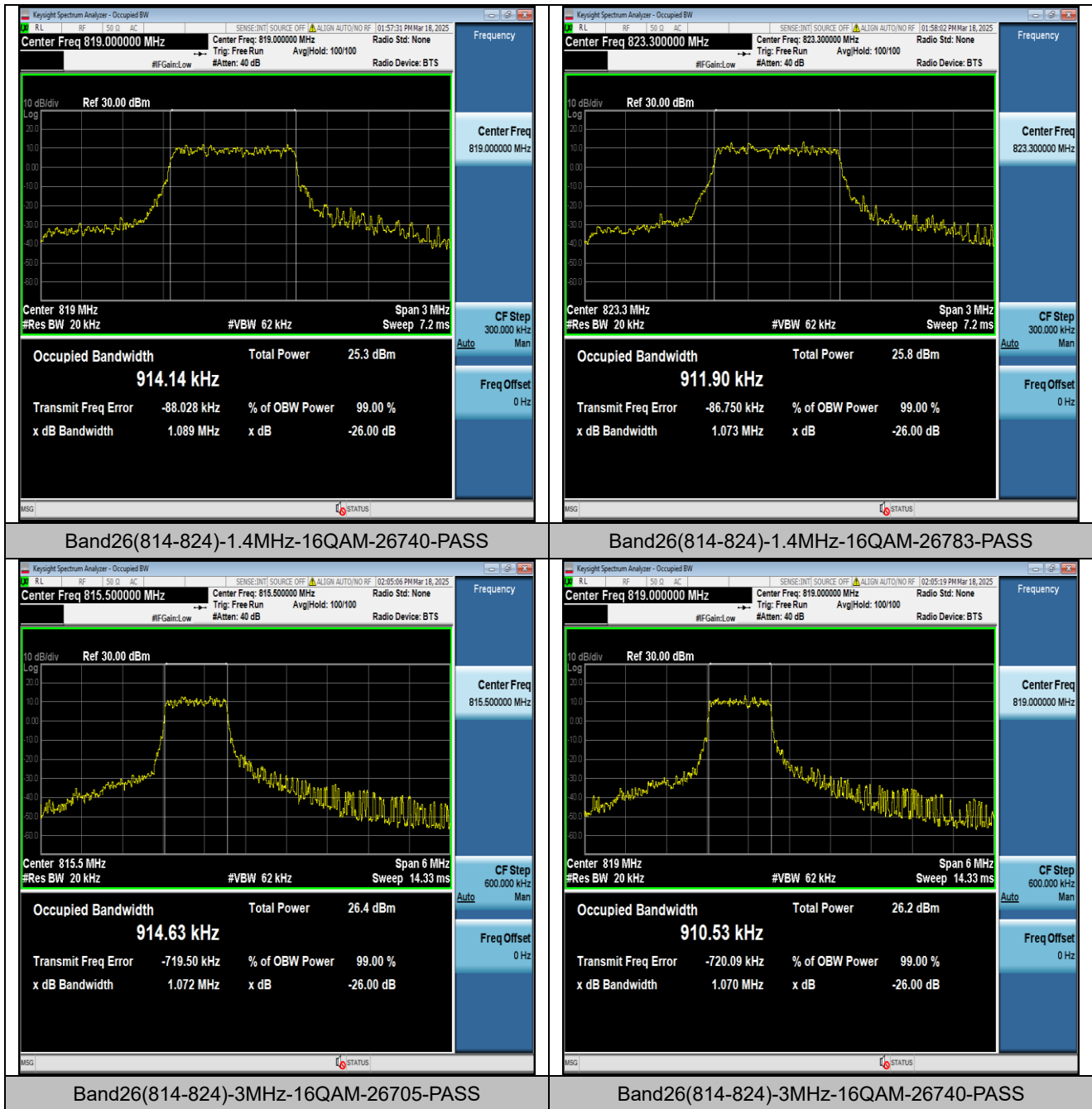
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26(814-824)	1.4MHz	QPSK	26697	6	0	Low	1.0806	1.264	PASS
Band26(814-824)	1.4MHz	QPSK	26740	6	0	Low	1.0820	1.276	PASS
Band26(814-824)	1.4MHz	QPSK	26783	6	0	High	1.0819	1.245	PASS
Band26(814-824)	3MHz	QPSK	26705	6	0	Low	1.0856	1.248	PASS
Band26(814-824)	3MHz	QPSK	26740	6	0	Low	1.0877	1.237	PASS
Band26(814-824)	3MHz	QPSK	26775	6	0	High	1.0857	1.244	PASS
Band26(814-824)	5MHz	QPSK	26715	6	0	Low	1.0885	1.250	PASS
Band26(814-824)	5MHz	QPSK	26740	6	0	Low	1.0884	1.233	PASS
Band26(814-824)	5MHz	QPSK	26785	6	0	High	1.0836	1.234	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	1.0870	1.290	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	High	1.1033	1.255	PASS
Band26(814-824)	1.4MHz	16QAM	26697	5	0	Low	0.91660	1.075	PASS
Band26(814-824)	1.4MHz	16QAM	26740	5	0	Low	0.91414	1.089	PASS
Band26(814-824)	1.4MHz	16QAM	26783	5	0	High	0.91190	1.073	PASS
Band26(814-824)	3MHz	16QAM	26705	5	0	Low	0.91463	1.072	PASS
Band26(814-824)	3MHz	16QAM	26740	5	0	Low	0.91053	1.070	PASS
Band26(814-824)	3MHz	16QAM	26775	5	0	High	0.91012	1.091	PASS
Band26(814-824)	5MHz	16QAM	26715	5	0	Low	0.91849	1.133	PASS
Band26(814-824)	5MHz	16QAM	26740	5	0	Low	0.91567	1.086	PASS
Band26(814-824)	5MHz	16QAM	26785	5	0	High	0.92110	1.087	PASS
Band26(814-824)	10MHz	16QAM	26740	5	0	Low	0.93467	1.152	PASS
Band26(814-824)	10MHz	16QAM	26740	5	0	High	0.92415	1.095	PASS

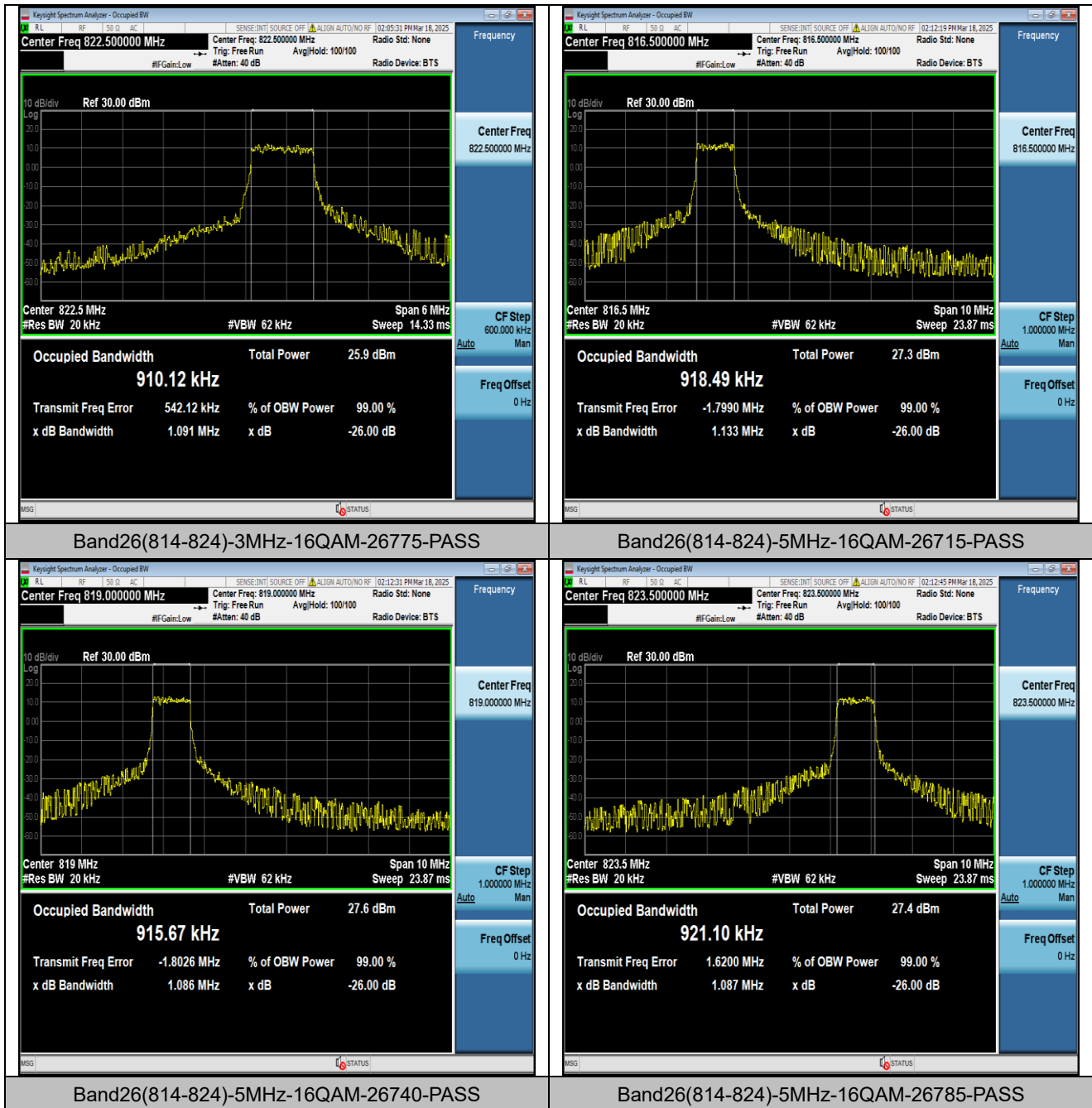
Test Graphs

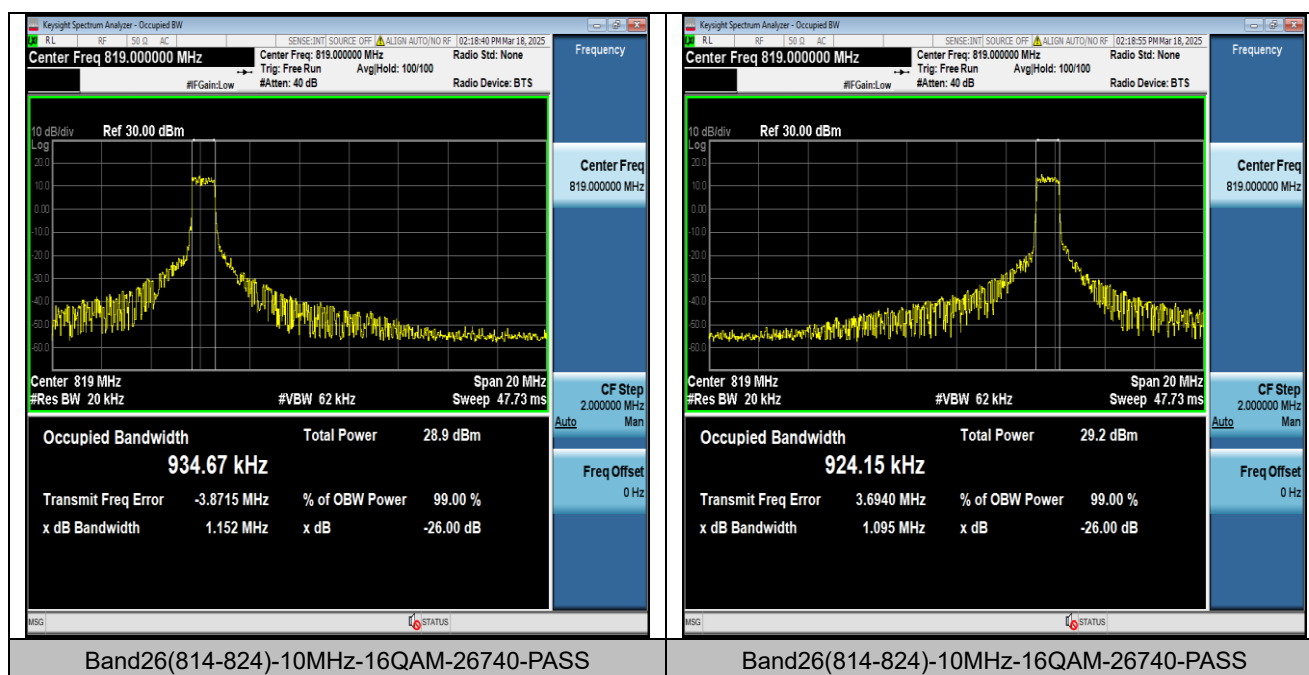






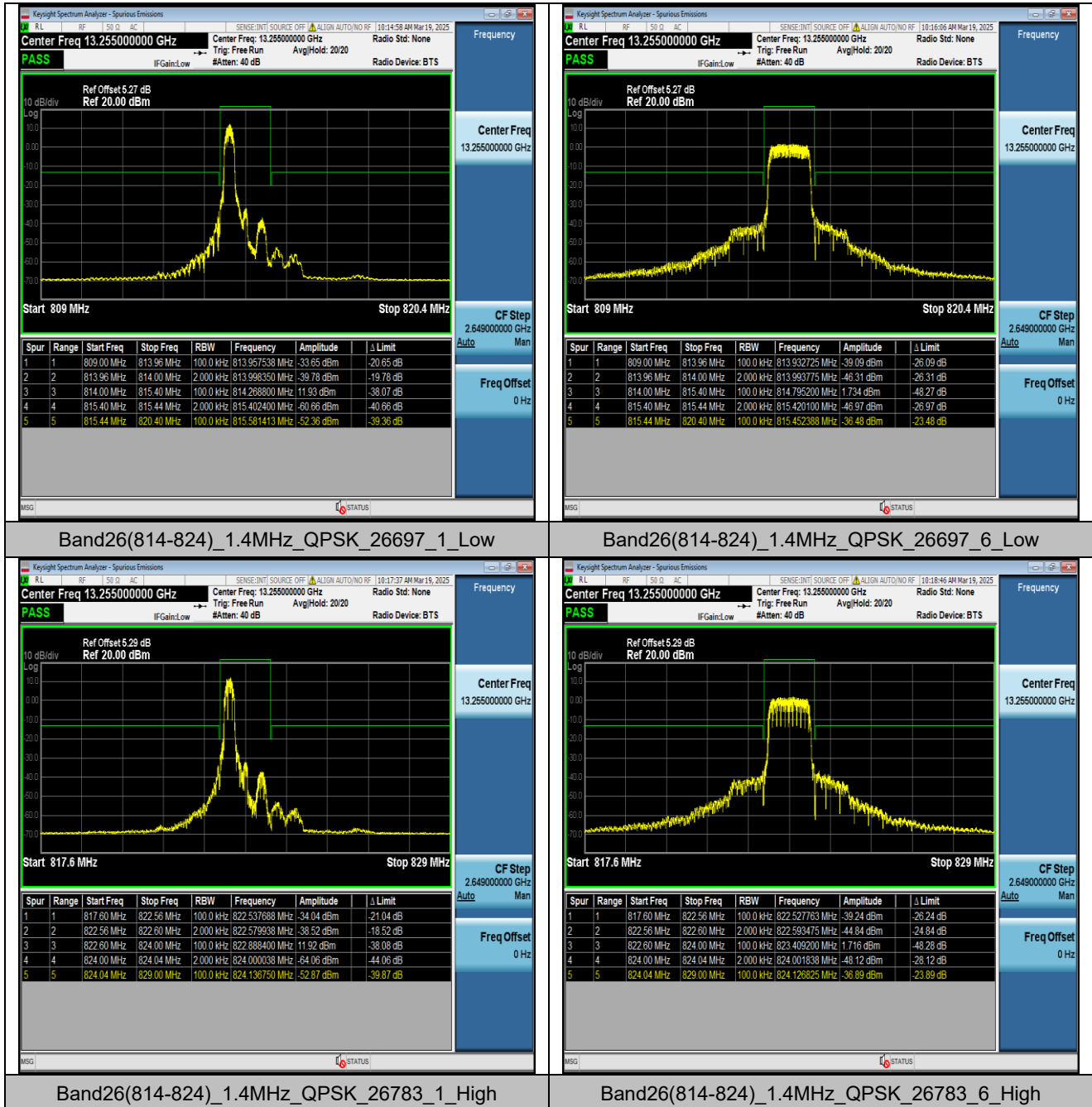


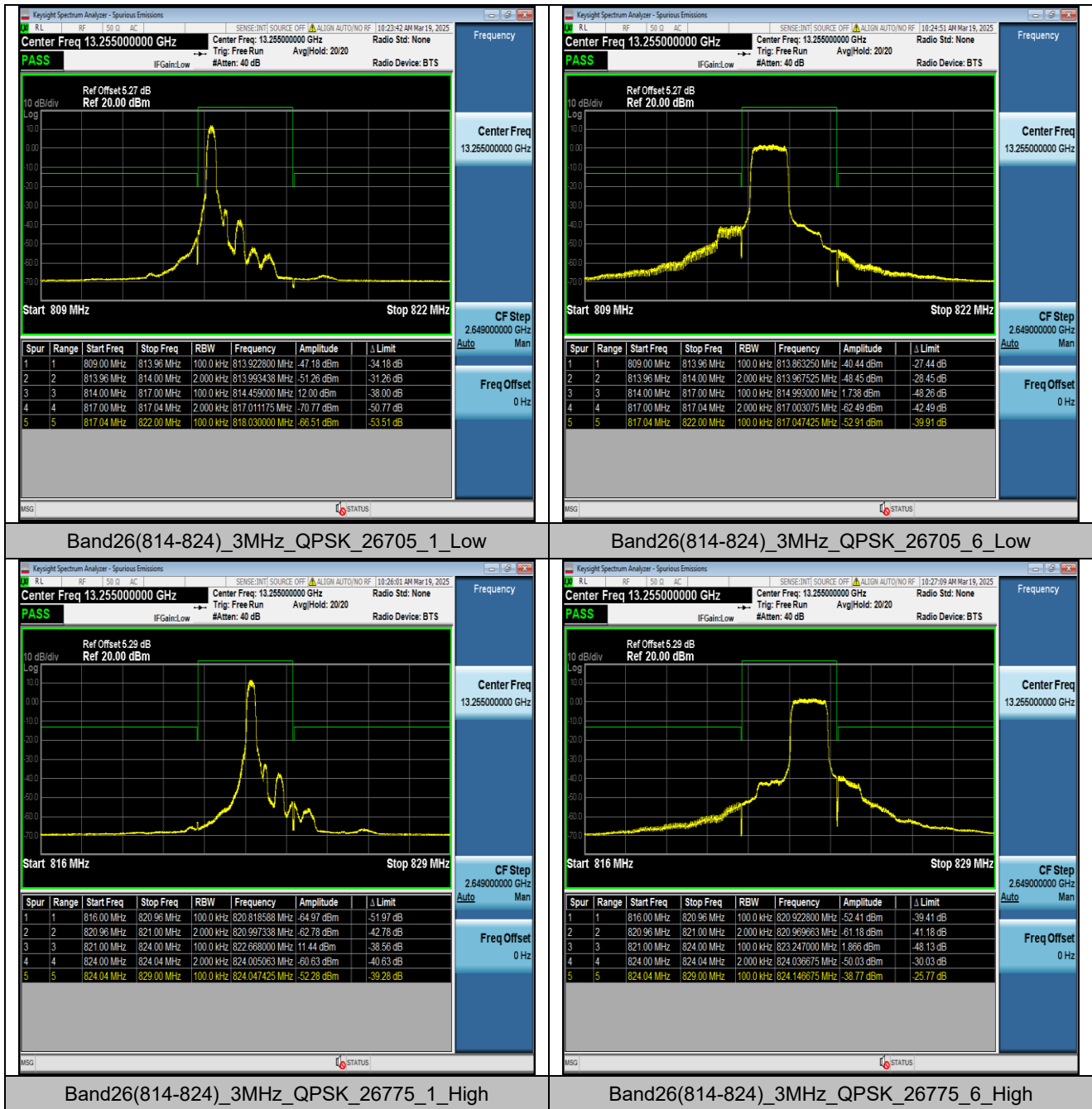


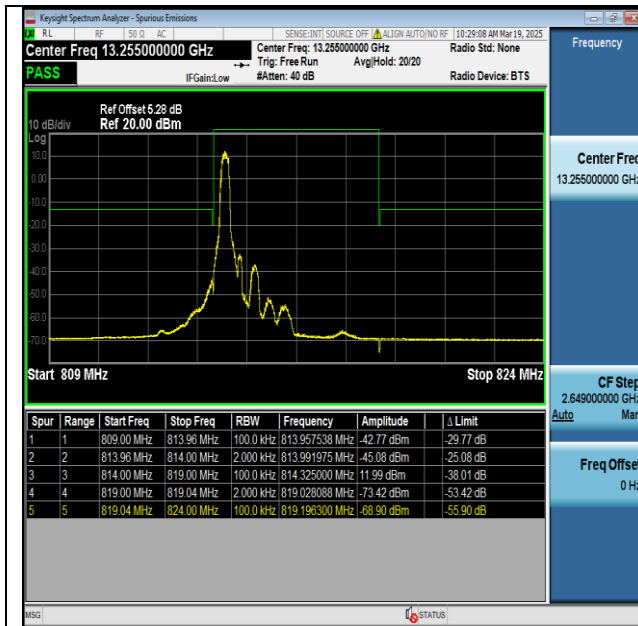


Band Edge for M1

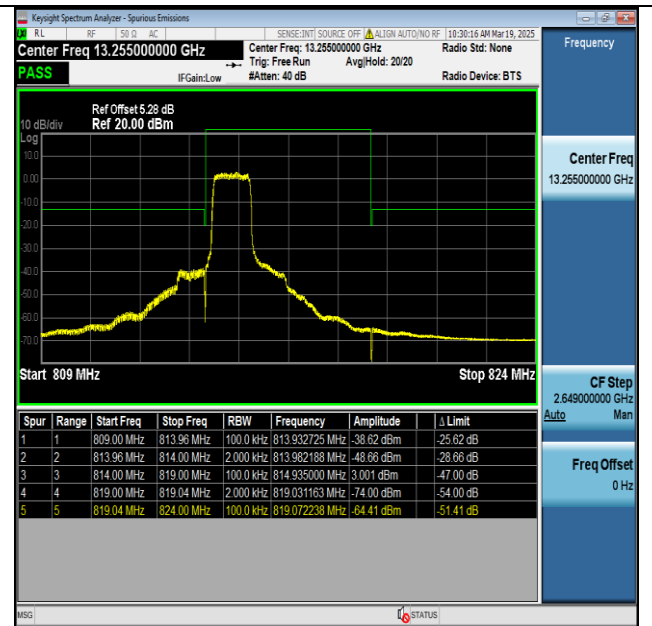
Test Graphs



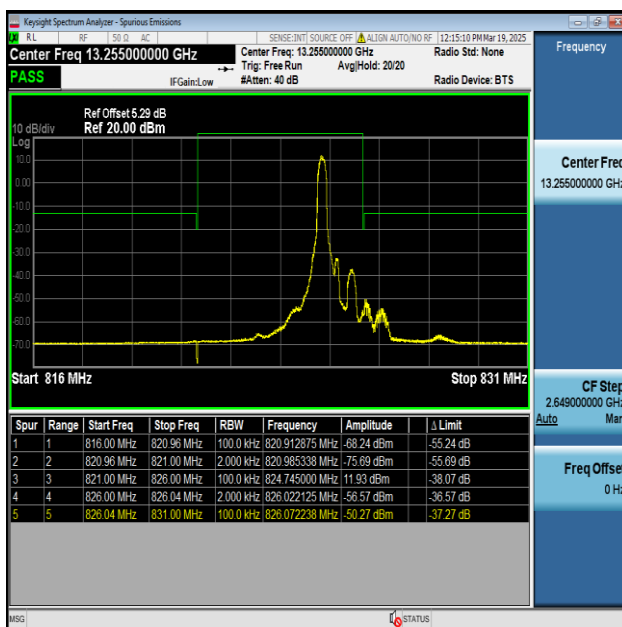




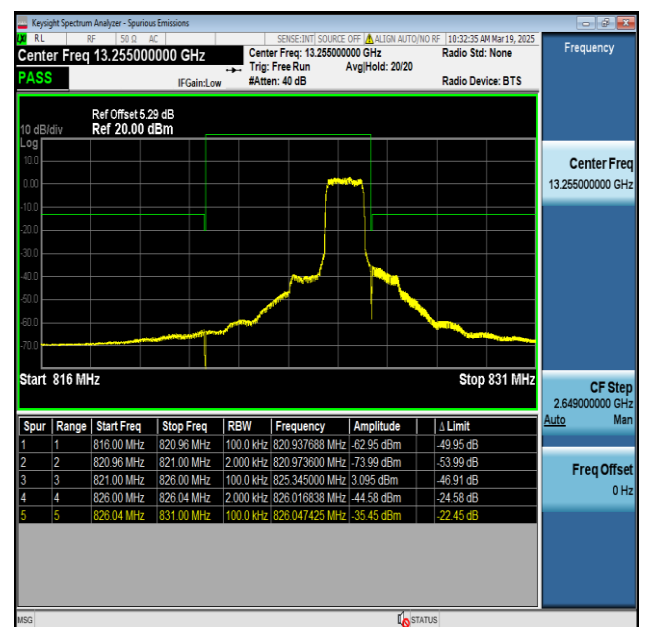
Band26(814-824)_5MHz_QPSK_26715_1_Low



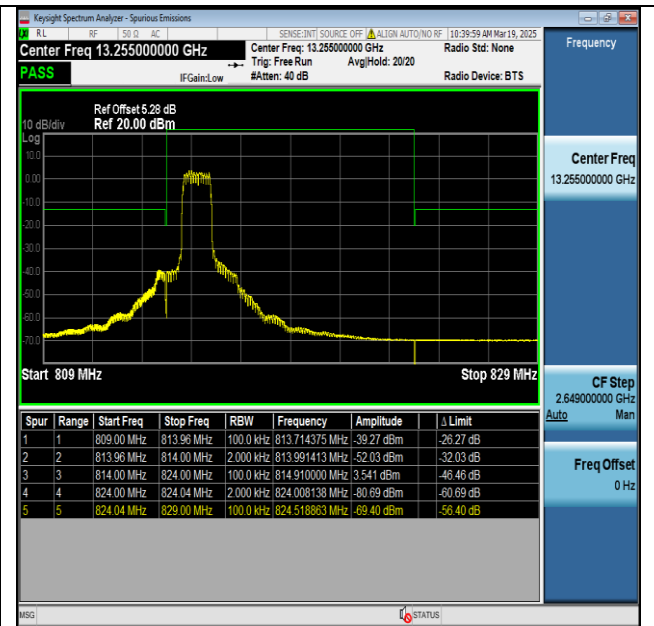
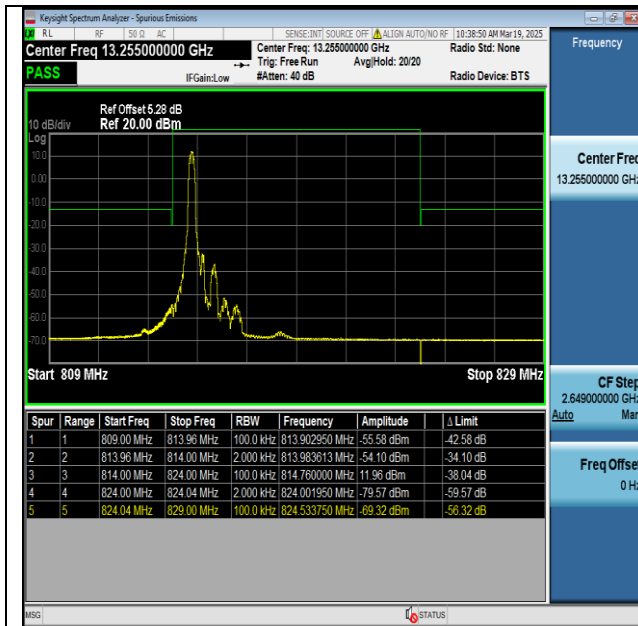
Band26(814-824)_5MHz_QPSK_26715_6_Low



Band26(814-824)_5MHz_QPSK_26785_1_High

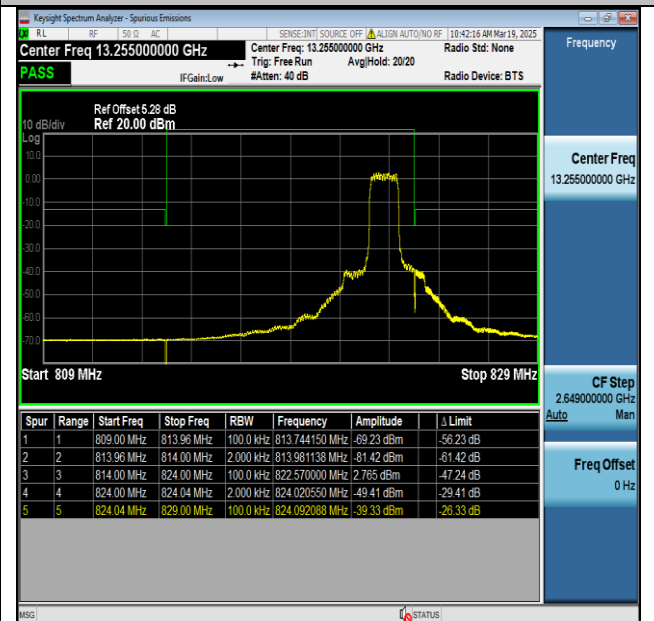
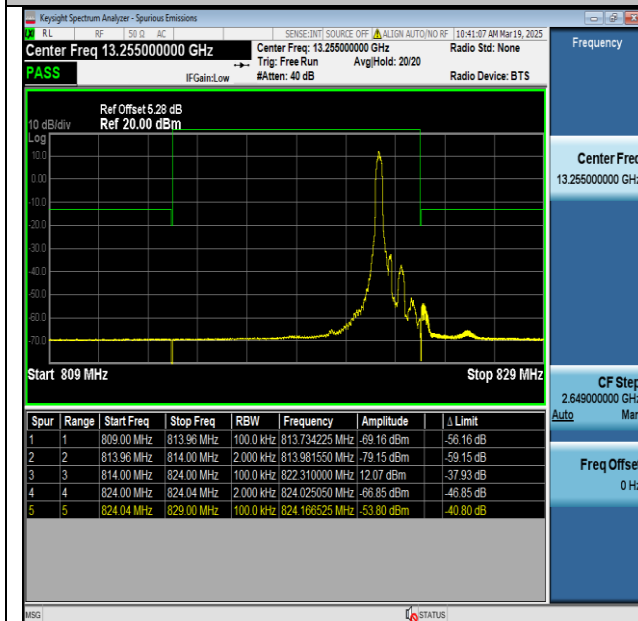


Band26(814-824)_5MHz_QPSK_26785_6_High



Band26(814-824)_10MHz_QPSK_26740_1_Low

Band26(814-824)_10MHz_QPSK_26740_6_Low

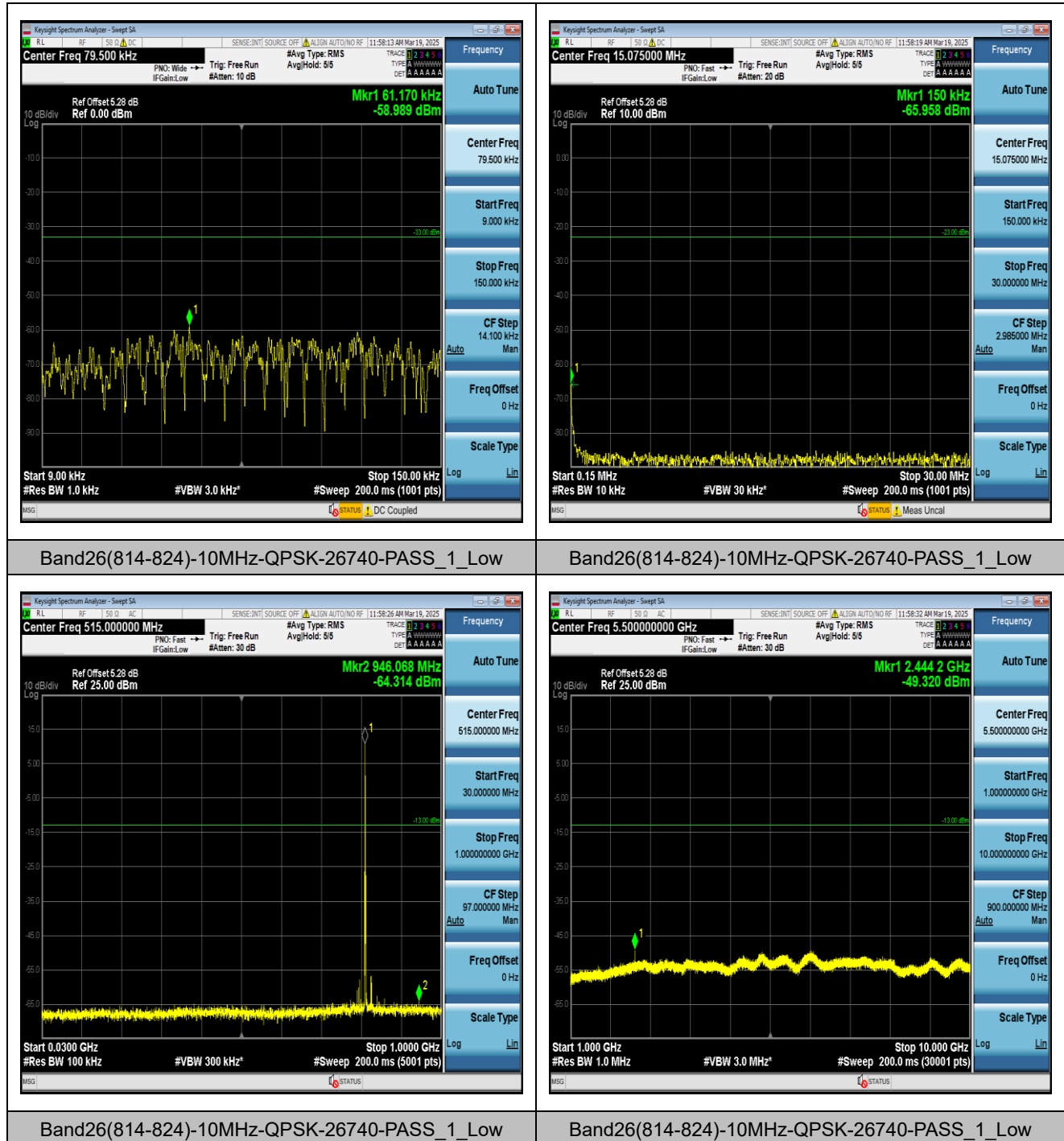


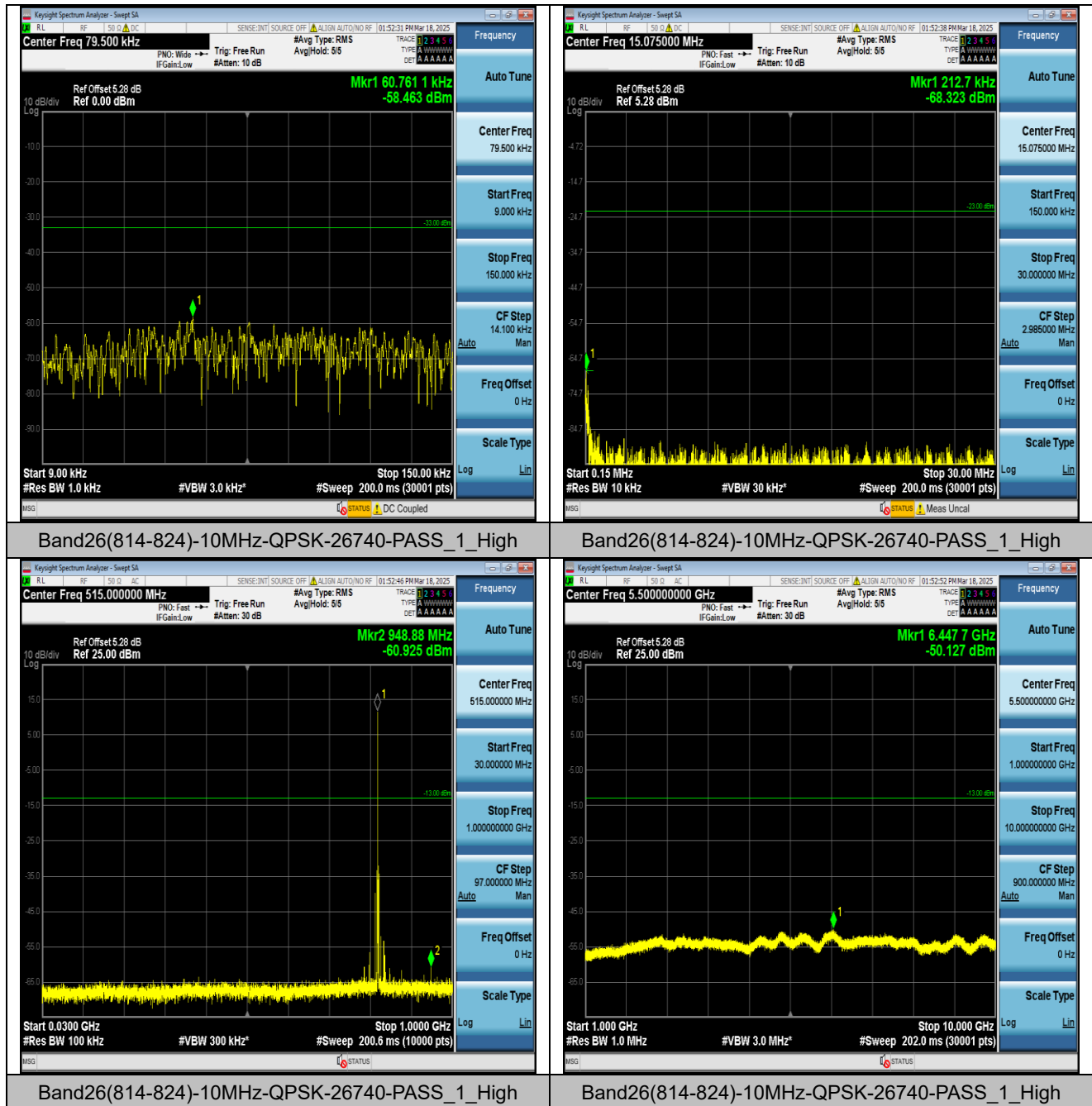
Band26(814-824)_10MHz_QPSK_26740_1_High

Band26(814-824)_10MHz_QPSK_26740_6_High

Conducted Spurious Emission for M1

Test Graphs





Frequency Stability for M1

Test Result

Voltage											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	VN	NT	-6.10	-0.007448	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	VL	NT	-5.40	-0.006593	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	VH	NT	-7.50	-0.009158	PASS

Voltage											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	-30	-5.20	-0.006349	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	-20	-6.70	-0.008181	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	-10	-6.90	-0.008425	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	0	-4.50	-0.005495	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	10	-6.80	-0.008303	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	20	-5.30	-0.006471	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	30	-6.20	-0.007570	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	40	-7.80	-0.009524	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	50	-5.20	-0.006349	PASS

~The End~