

Appendix-A 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	1.4MHz	QPSK	26697	1	0	Low	20.22	50.00	PASS
Band26	1.4MHz	QPSK	26697	1	5	Low	20.07	50.00	PASS
Band26	1.4MHz	QPSK	26697	6	0	Low	18.29	50.00	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	20.31	50.00	PASS
Band26	1.4MHz	QPSK	26740	1	5	Low	20.15	50.00	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	18.43	50.00	PASS
Band26	1.4MHz	QPSK	26783	1	0	High	20.1	50.00	PASS
Band26	1.4MHz	QPSK	26783	1	5	High	20.16	50.00	PASS
Band26	1.4MHz	QPSK	26783	6	0	High	18.45	50.00	PASS
Band26	3MHz	QPSK	26705	1	0	Low	20.12	50.00	PASS
Band26	3MHz	QPSK	26705	1	5	Low	19.98	50.00	PASS
Band26	3MHz	QPSK	26705	6	0	Low	18.3	50.00	PASS
Band26	3MHz	QPSK	26740	1	0	Low	20.42	50.00	PASS
Band26	3MHz	QPSK	26740	1	5	Low	20.19	50.00	PASS
Band26	3MHz	QPSK	26740	6	0	Low	18.46	50.00	PASS
Band26	3MHz	QPSK	26775	1	0	High	20.29	50.00	PASS
Band26	3MHz	QPSK	26775	1	5	High	20.11	50.00	PASS
Band26	3MHz	QPSK	26775	6	0	High	18.49	50.00	PASS
Band26	5MHz	QPSK	26715	1	0	Low	20.28	50.00	PASS
Band26	5MHz	QPSK	26715	1	5	Low	20.17	50.00	PASS
Band26	5MHz	QPSK	26715	6	0	Low	19.28	50.00	PASS
Band26	5MHz	QPSK	26740	1	0	Low	20.43	50.00	PASS
Band26	5MHz	QPSK	26740	1	5	Low	20.27	50.00	PASS
Band26	5MHz	QPSK	26740	6	0	Low	19.43	50.00	PASS
Band26	5MHz	QPSK	26785	1	0	High	20.41	50.00	PASS
Band26	5MHz	QPSK	26785	1	5	High	20.16	50.00	PASS
Band26	5MHz	QPSK	26785	6	0	High	19.41	50.00	PASS
Band26	1.4MHz	16QAM	26697	1	0	Low	19.22	50.00	PASS
Band26	1.4MHz	16QAM	26697	1	5	Low	19.16	50.00	PASS
Band26	1.4MHz	16QAM	26697	5	0	Low	18.33	50.00	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	19.37	50.00	PASS
Band26	1.4MHz	16QAM	26740	1	5	Low	19.21	50.00	PASS
Band26	1.4MHz	16QAM	26740	5	0	Low	18.44	50.00	PASS
Band26	1.4MHz	16QAM	26783	1	0	High	19.33	50.00	PASS

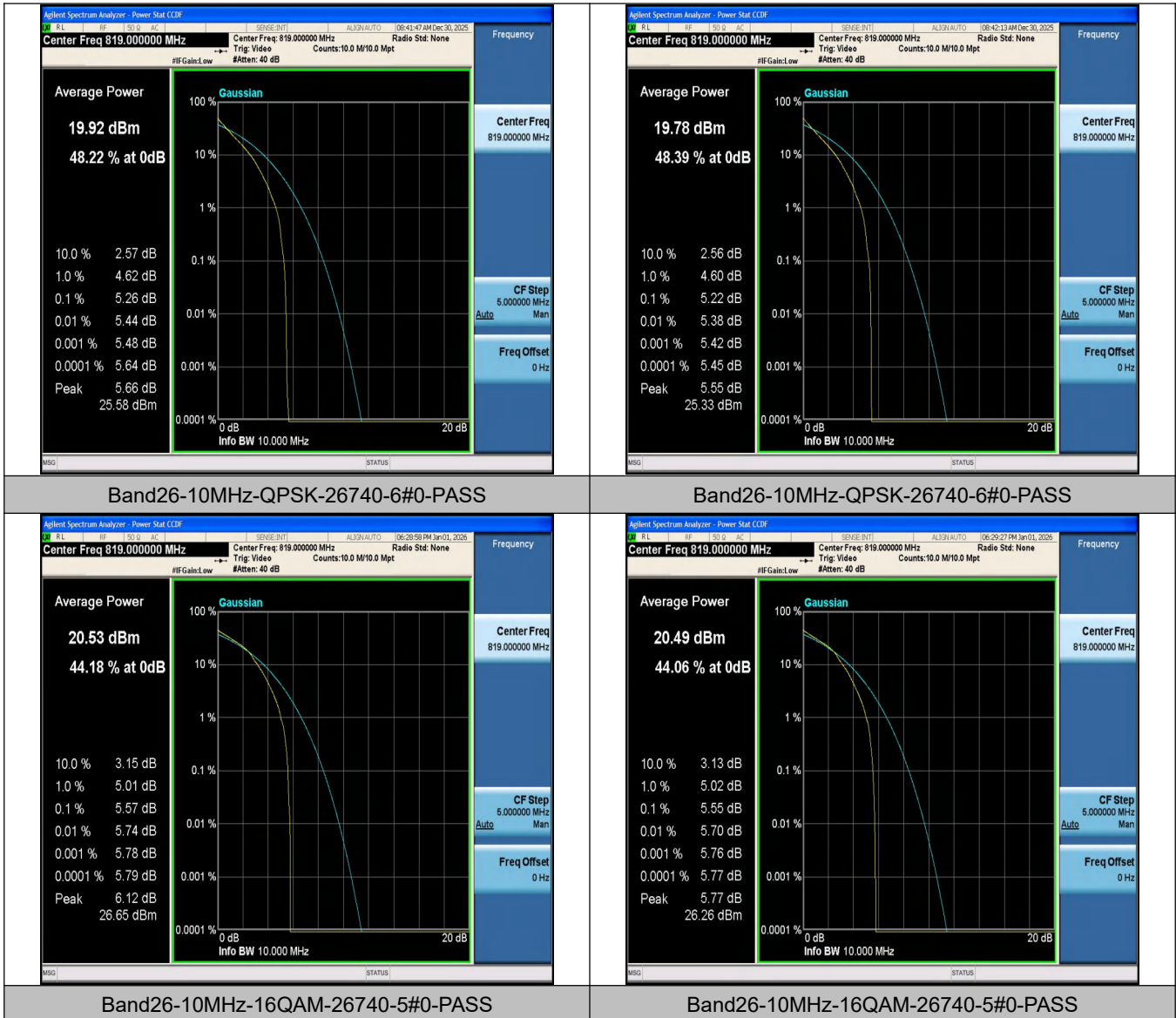
Band26	1.4MHz	16QAM	26783	1	5	High	19.25	50.00	PASS
Band26	1.4MHz	16QAM	26783	5	0	High	18.38	50.00	PASS
Band26	3MHz	16QAM	26705	1	0	Low	19.23	50.00	PASS
Band26	3MHz	16QAM	26705	1	5	Low	19.14	50.00	PASS
Band26	3MHz	16QAM	26705	5	0	Low	18.32	50.00	PASS
Band26	3MHz	16QAM	26740	1	0	Low	19.29	50.00	PASS
Band26	3MHz	16QAM	26740	1	5	Low	19.17	50.00	PASS
Band26	3MHz	16QAM	26740	5	0	Low	18.44	50.00	PASS
Band26	3MHz	16QAM	26775	1	0	High	19.22	50.00	PASS
Band26	3MHz	16QAM	26775	1	5	High	19.13	50.00	PASS
Band26	3MHz	16QAM	26775	5	0	High	18.35	50.00	PASS
Band26	5MHz	16QAM	26715	1	0	Low	20.14	50.00	PASS
Band26	5MHz	16QAM	26715	1	5	Low	20.18	50.00	PASS
Band26	5MHz	16QAM	26715	5	0	Low	19.05	50.00	PASS
Band26	5MHz	16QAM	26740	1	0	Low	20.53	50.00	PASS
Band26	5MHz	16QAM	26740	1	5	Low	20.42	50.00	PASS
Band26	5MHz	16QAM	26740	5	0	Low	19.32	50.00	PASS
Band26	5MHz	16QAM	26785	1	0	High	20.58	50.00	PASS
Band26	5MHz	16QAM	26785	1	5	High	20.1	50.00	PASS
Band26	5MHz	16QAM	26785	5	0	High	19.24	50.00	PASS
Band26	10MHz	QPSK	26740	1	0	Low	20.37	50.00	PASS
Band26	10MHz	QPSK	26740	1	5	Low	20.22	50.00	PASS
Band26	10MHz	QPSK	26740	6	0	Low	19.34	50.00	PASS
Band26	10MHz	16QAM	26740	1	0	Low	20.52	50.00	PASS
Band26	10MHz	16QAM	26740	1	5	Low	20.21	50.00	PASS
Band26	10MHz	16QAM	26740	5	0	Low	20.11	50.00	PASS

Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	6	0	Low	5.26	<=13	PASS
Band26	10MHz	QPSK	26740	6	0	High	5.22	<=13	PASS
Band26	10MHz	16QAM	26740	5	0	Low	5.57	<=13	PASS
Band26	10MHz	16QAM	26740	5	0	High	5.55	<=13	PASS

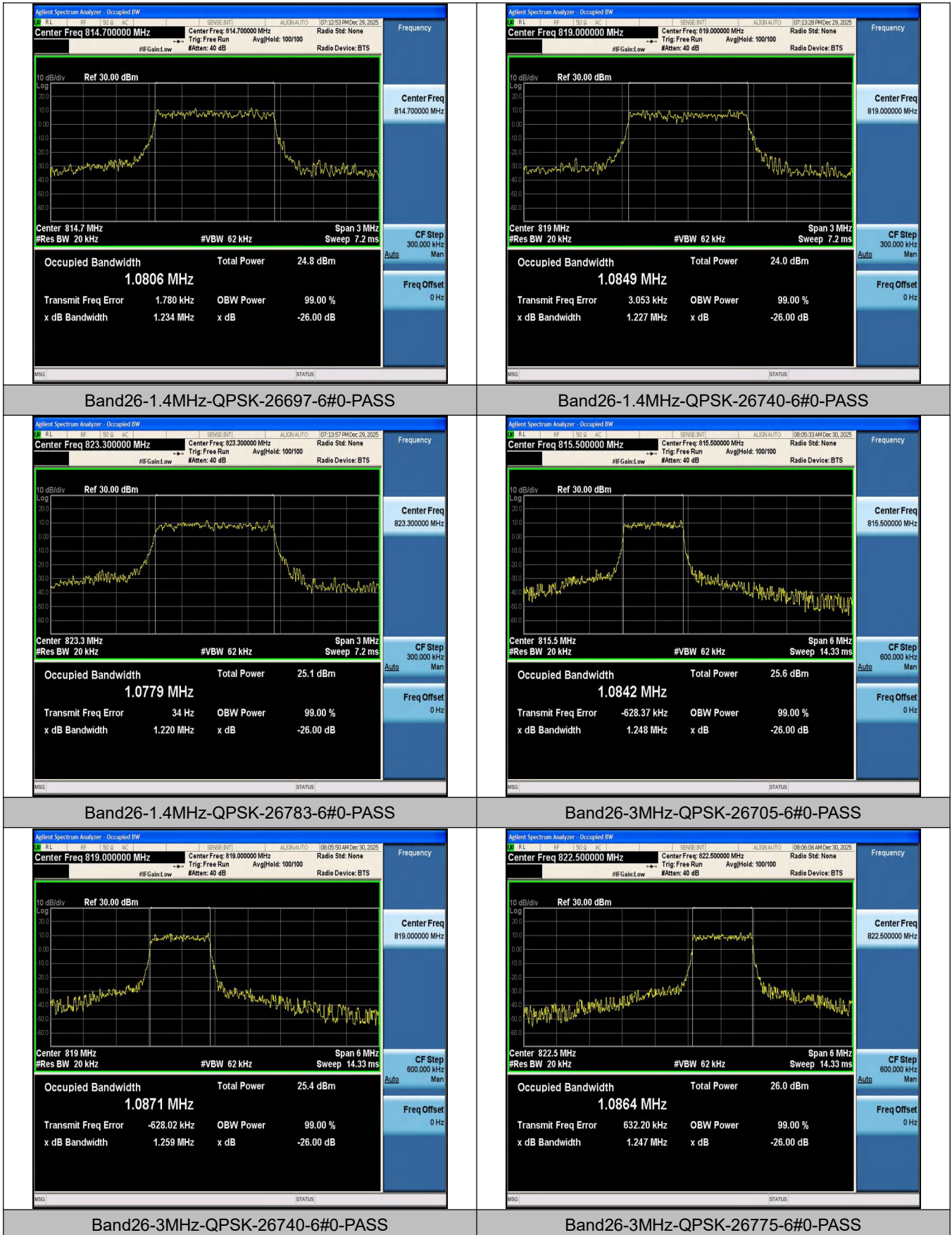
Test Graphs



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

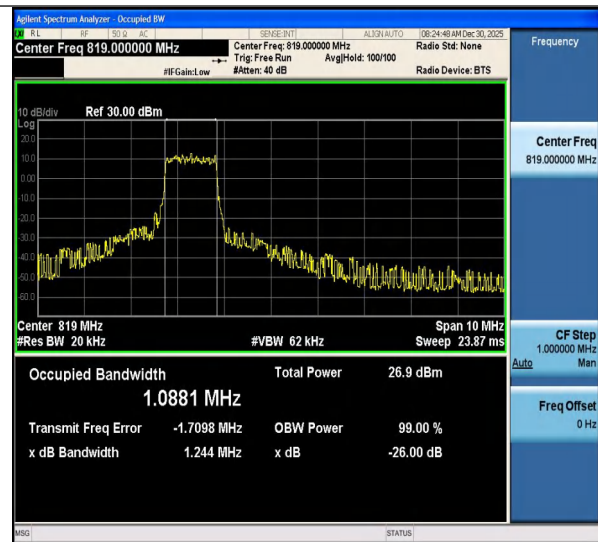
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6	0	Low	1.0806	1.234	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	1.0849	1.227	PASS
Band26	1.4MHz	QPSK	26783	6	0	High	1.0779	1.220	PASS
Band26	3MHz	QPSK	26705	6	0	Low	1.0842	1.248	PASS
Band26	3MHz	QPSK	26740	6	0	Low	1.0871	1.259	PASS
Band26	3MHz	QPSK	26775	6	0	High	1.0864	1.247	PASS
Band26	5MHz	QPSK	26715	6	0	Low	1.0846	1.232	PASS
Band26	5MHz	QPSK	26740	6	0	Low	1.0881	1.244	PASS
Band26	5MHz	QPSK	26785	6	0	High	1.0886	1.261	PASS
Band26	10MHz	QPSK	26740	6	0	High	1.0990	1.268	PASS
Band26	1.4MHz	16QAM	26697	5	0	Low	0.90836	1.060	PASS
Band26	1.4MHz	16QAM	26740	5	0	Low	0.90666	1.074	PASS
Band26	1.4MHz	16QAM	26783	5	0	High	0.91028	1.097	PASS
Band26	3MHz	16QAM	26740	5	0	Low	0.90934	1.081	PASS
Band26	3MHz	16QAM	26775	5	0	High	0.91623	1.097	PASS
Band26	5MHz	16QAM	26715	5	0	Low	0.91042	1.095	PASS
Band26	5MHz	16QAM	26740	5	0	Low	0.91798	1.099	PASS
Band26	3MHz	16QAM	26705	5	0	Low	0.91390	1.086	PASS
Band26	5MHz	16QAM	26785	5	0	High	0.92058	1.089	PASS
Band26	10MHz	16QAM	26740	5	0	High	0.91969	1.091	PASS

Test Graphs





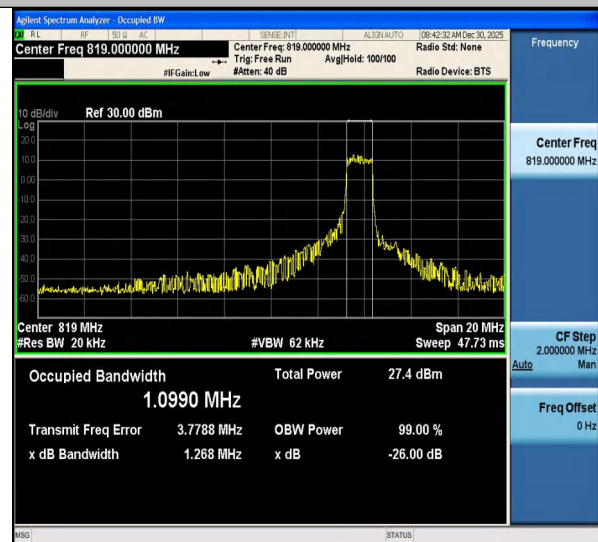
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Band26-5MHz-QPSK-26740-6#0-PASS



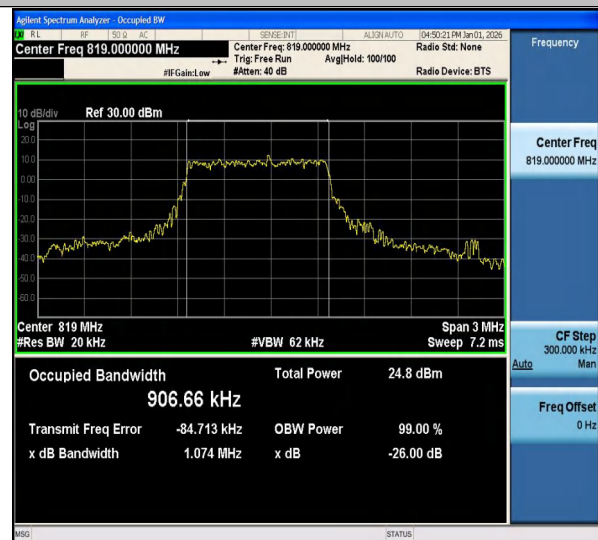
Band26-5MHz-QPSK-26785-6#0-PASS



Band26-10MHz-QPSK-26740-6#0-PASS



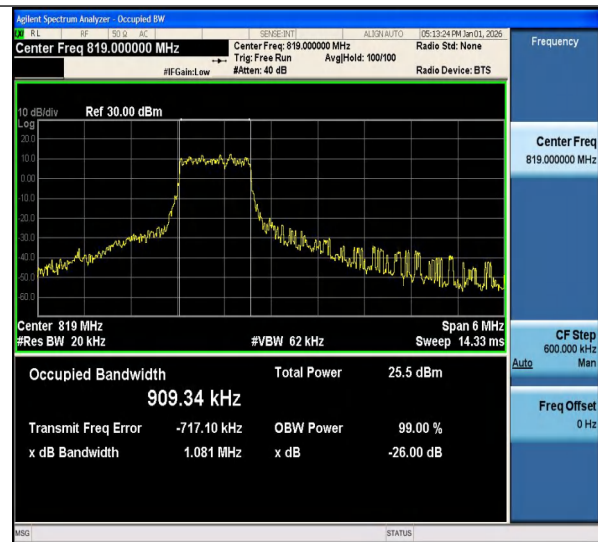
Band26-1.4MHz-16QAM-26697-5#0-PASS



Band26-1.4MHz-16QAM-26740-5#0-PASS



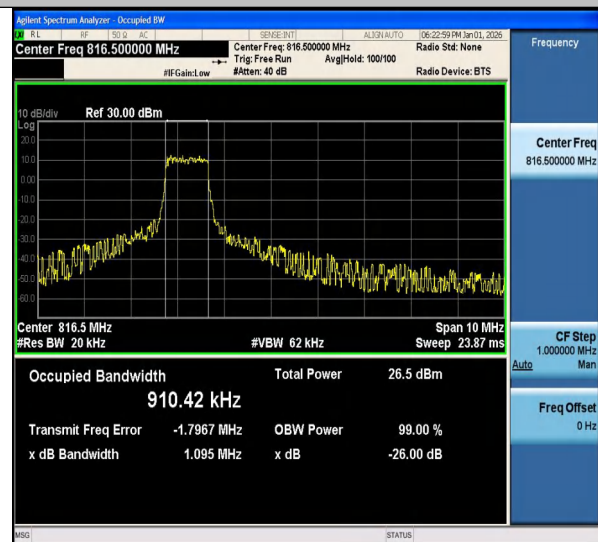
Band26-1.4MHz-16QAM-26783-5#0-PASS



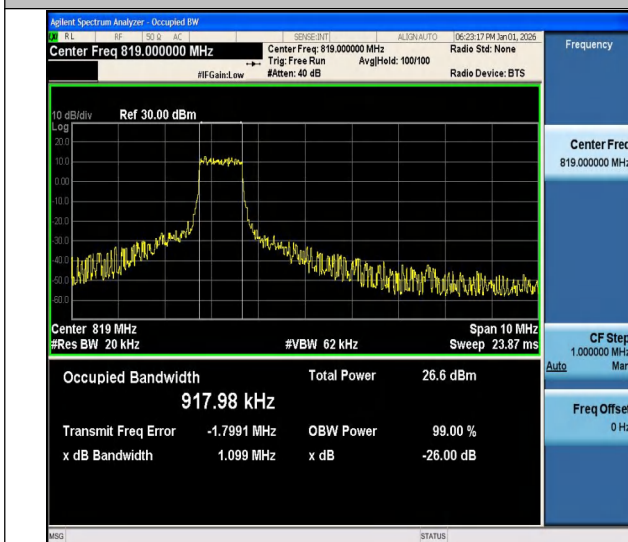
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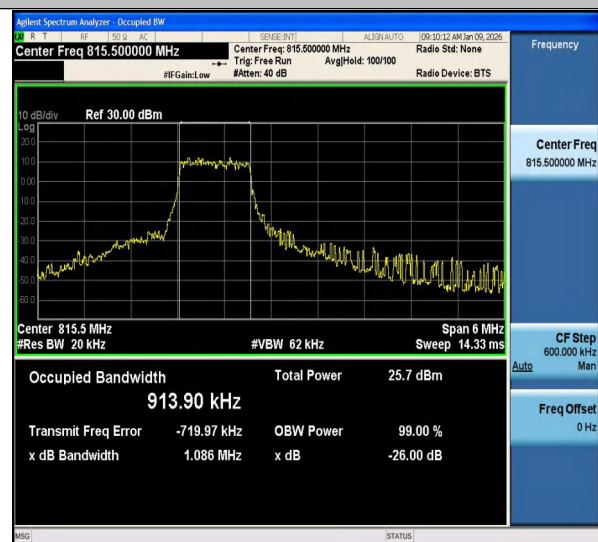
Band26-3MHz-16QAM-26775-5#0-PASS



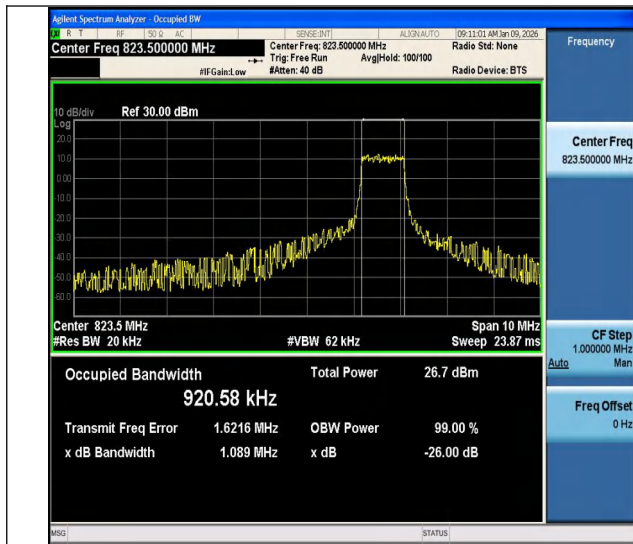
Band26-5MHz-16QAM-26715-5#0-PASS



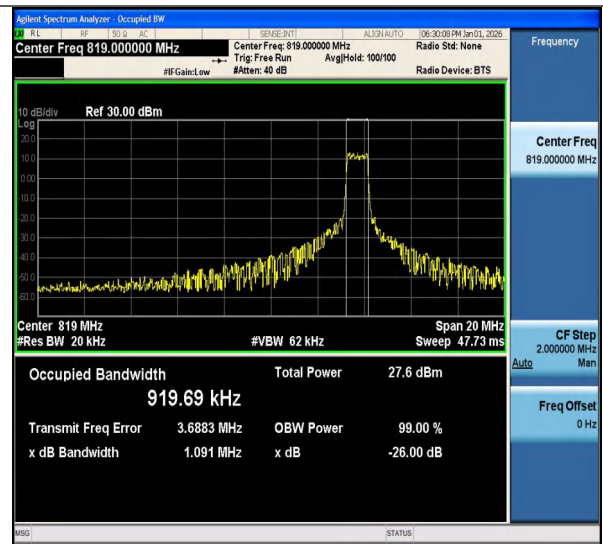
Band26-5MHz-16QAM-26740-5#0-PASS



Band26-3MHz-16QAM-26705-5#0-PASS



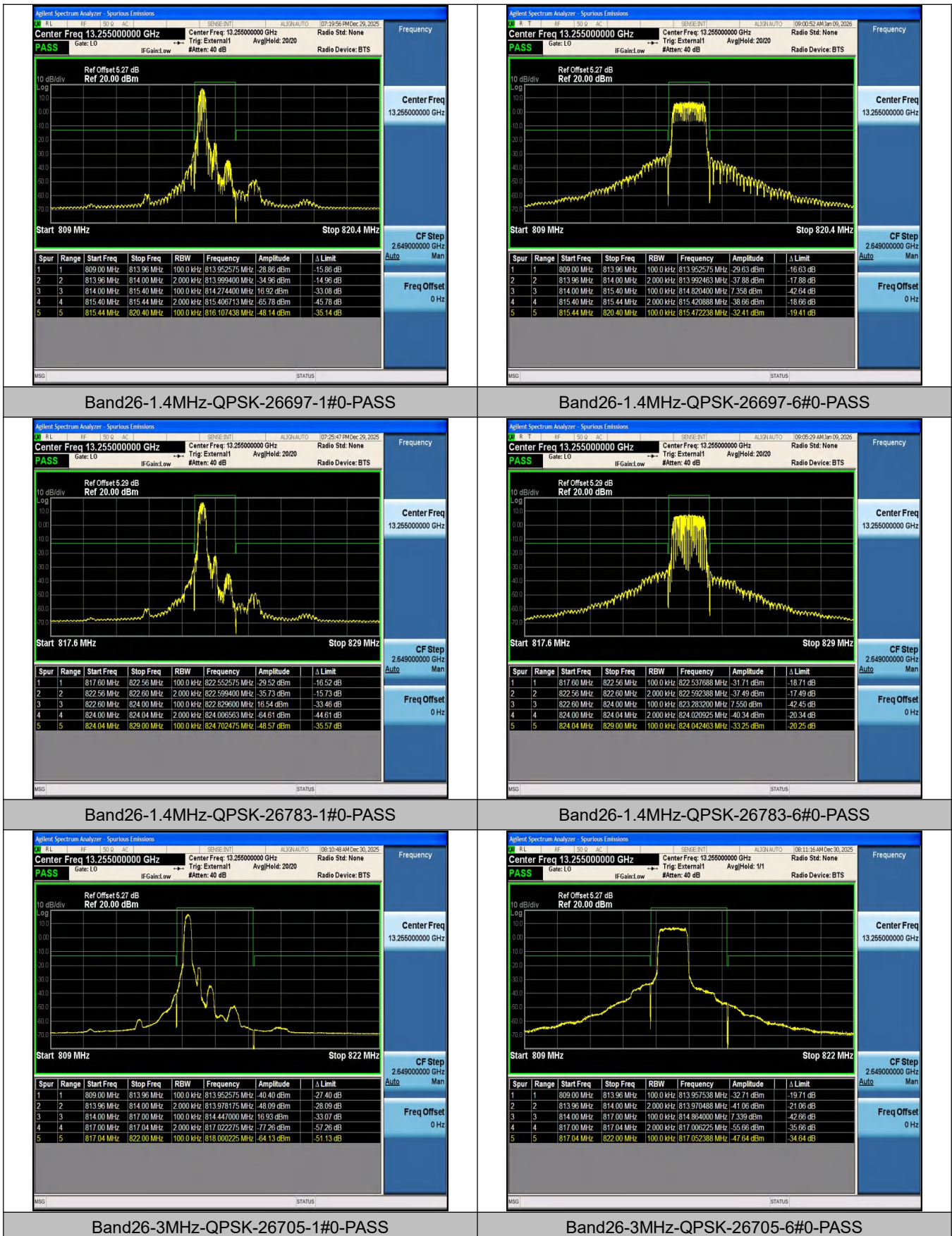
Band26-5MHz-16QAM-26785-5#0-PASS



Band26-10MHz-16QAM-26740-5#0-PASS

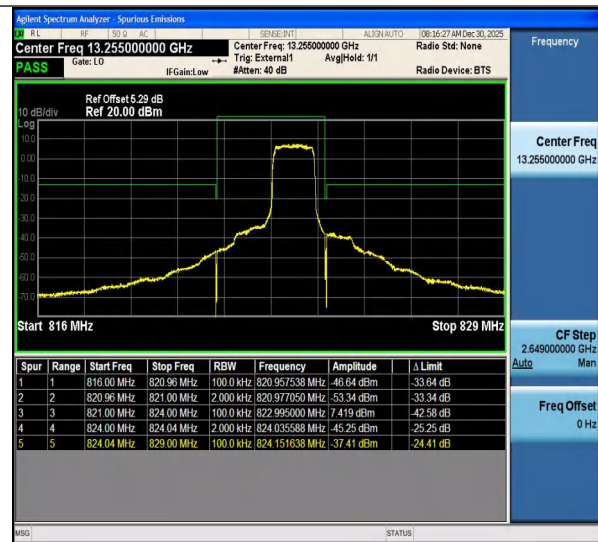
Band Edge for M1

Test Graphs





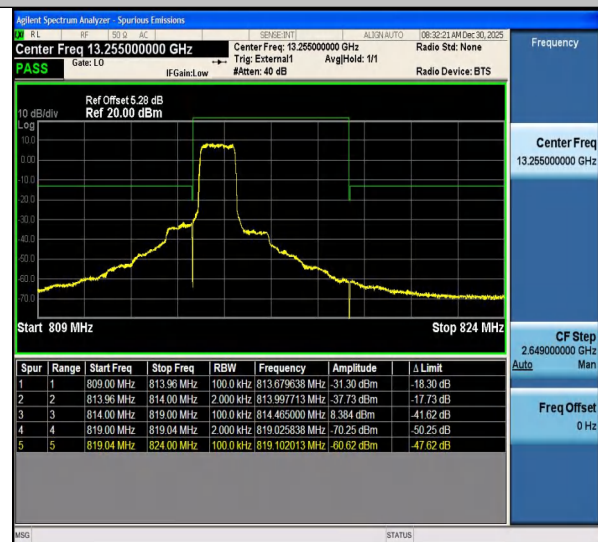
Band26-3MHz-QPSK-26775-1#0-PASS



Band26-3MHz-QPSK-26775-6#0-PASS



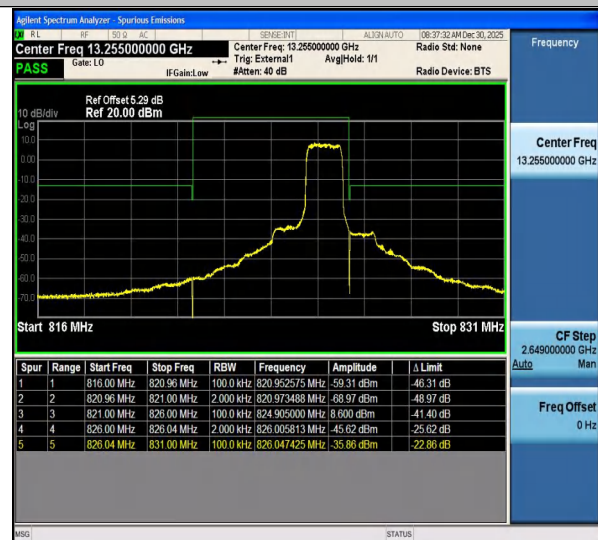
Band26-5MHz-QPSK-26715-1#0-PASS



Band26-5MHz-QPSK-26715-6#0-PASS



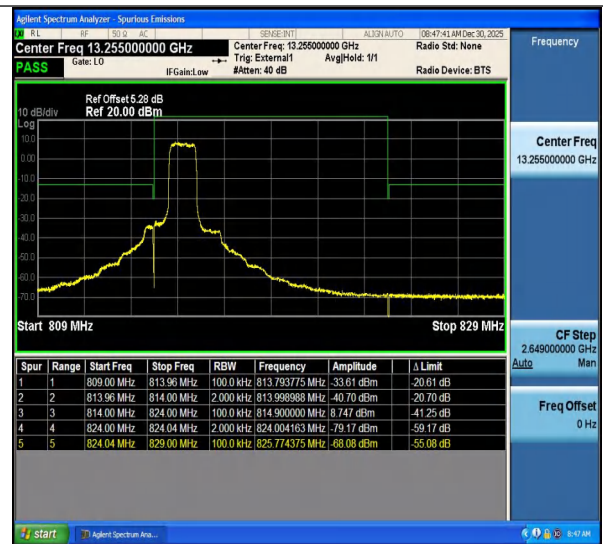
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Band26-5MHz-QPSK-26785-6#0-PASS



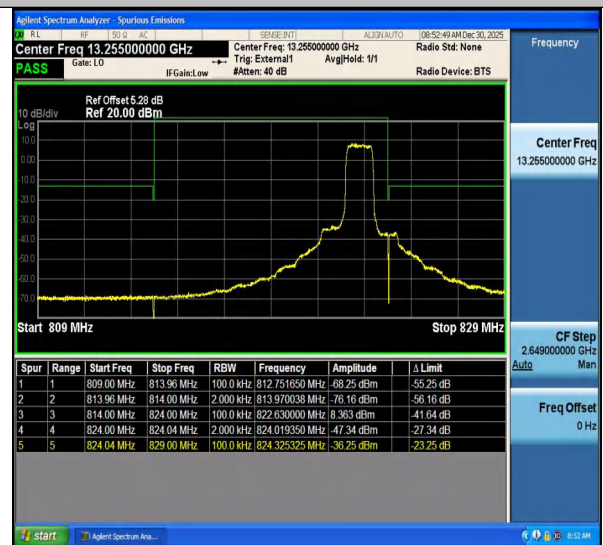
Band26-10MHz-QPSK-26740-1#0-PASS



Band26-10MHz-QPSK-26740-6#0-PASS



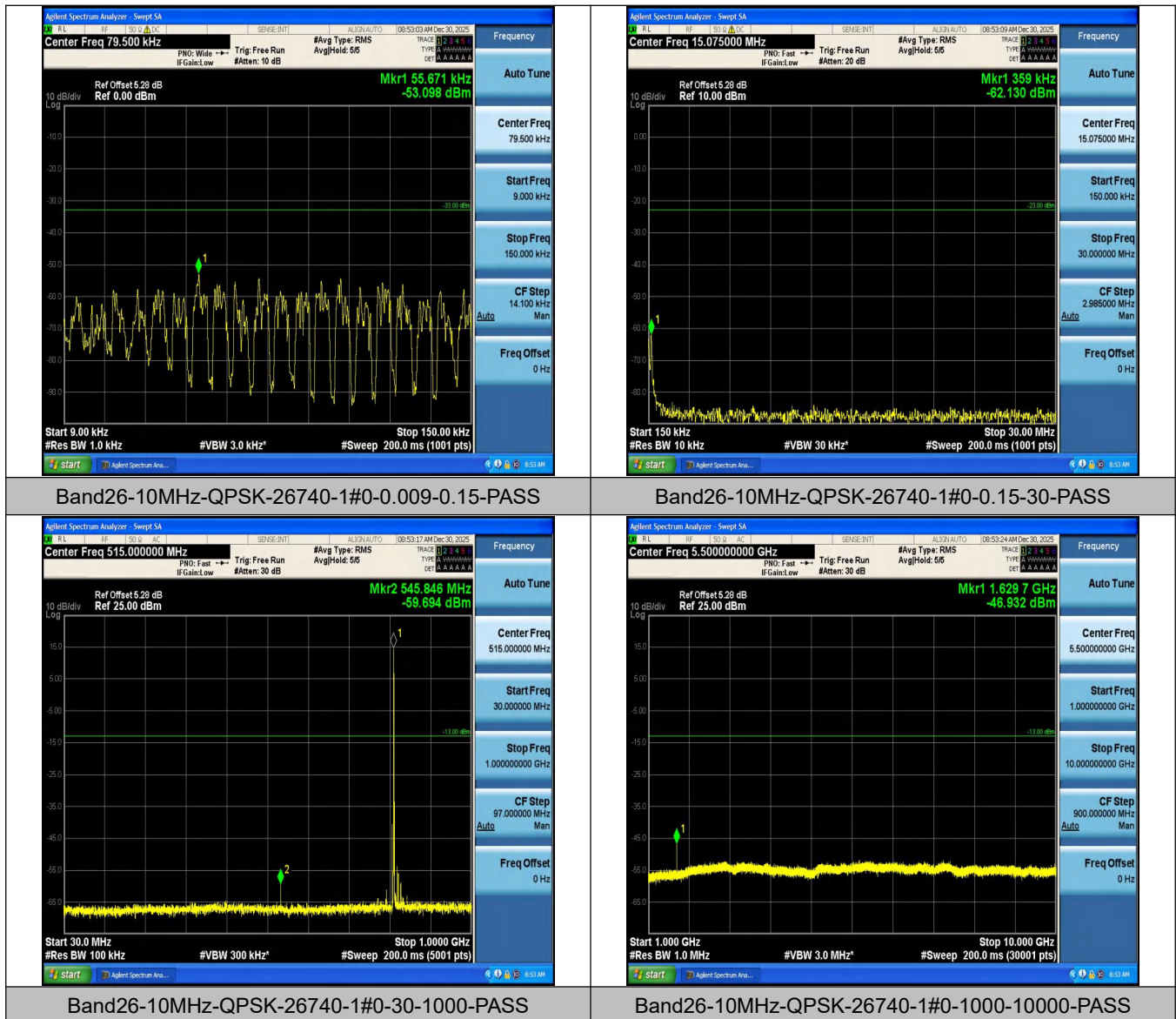
Band26-10MHz-QPSK-26740-1#0-PASS



Band26-10MHz-QPSK-26740-6#0-PASS

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	10MHz	QPSK	26740	6	0	Low	VN	NT	-8.20	-0.010012	PASS
Band26	10MHz	QPSK	26740	6	0	Low	VL	NT	-8.70	-0.010623	PASS
Band26	10MHz	QPSK	26740	6	0	Low	VH	NT	-7.70	-0.009402	PASS

Temperature											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	6	0	Low	NV	-30	-8.50	-0.010379	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	-20	-10.10	-0.012332	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	-10	-8.90	-0.010867	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	0	-10.90	-0.013309	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	10	-9.20	-0.011233	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	20	-9.70	-0.011844	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	30	-9.00	-0.010989	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	40	-8.10	-0.009890	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	50	-7.30	-0.008913	PASS

~The End~