

Appendix-D LTE Band 38

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.28	24.68	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.34	24.74	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.22	24.62	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.4	23.8	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.5	24.9	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.54	24.94	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.47	24.87	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.6	24	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.46	24.86	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.51	24.91	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.53	24.93	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.6	24	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.69	24.09	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.69	24.09	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.65	24.05	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.5	22.9	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.6	24	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	23.17	24.57	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.92	24.32	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.41	22.81	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.98	24.38	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	23.03	24.43	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.95	24.35	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.62	23.02	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.31	24.71	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.32	24.72	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.36	24.76	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.51	23.91	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.46	24.86	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.58	24.98	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.43	24.83	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.64	24.04	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.55	24.95	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.64	25.04	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.56	24.96	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.62	24.02	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.25	23.65	33.00	PASS

Band38	10MHz	16QAM	37800	1RB#24	22.49	23.89	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.28	23.68	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.49	22.89	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.83	24.23	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	23.01	24.41	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.83	24.23	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.45	22.85	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	23.05	24.45	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	23.35	24.75	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	23.14	24.54	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.62	23.02	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.39	24.79	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.4	24.8	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.18	24.58	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.45	23.85	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.4	24.8	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.44	24.84	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.42	24.82	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.6	24	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.54	24.94	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.5	24.9	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.56	24.96	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.49	23.89	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.51	23.91	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.49	23.89	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.07	23.47	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.52	22.92	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.41	23.81	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.39	23.79	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.46	23.86	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.61	23.01	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	23.07	24.47	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.99	24.39	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	23.05	24.45	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.59	22.99	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.36	24.76	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.48	24.88	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.45	24.85	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.6	24	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.35	24.75	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.58	24.98	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.4	24.8	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.55	23.95	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.64	25.04	33.00	PASS

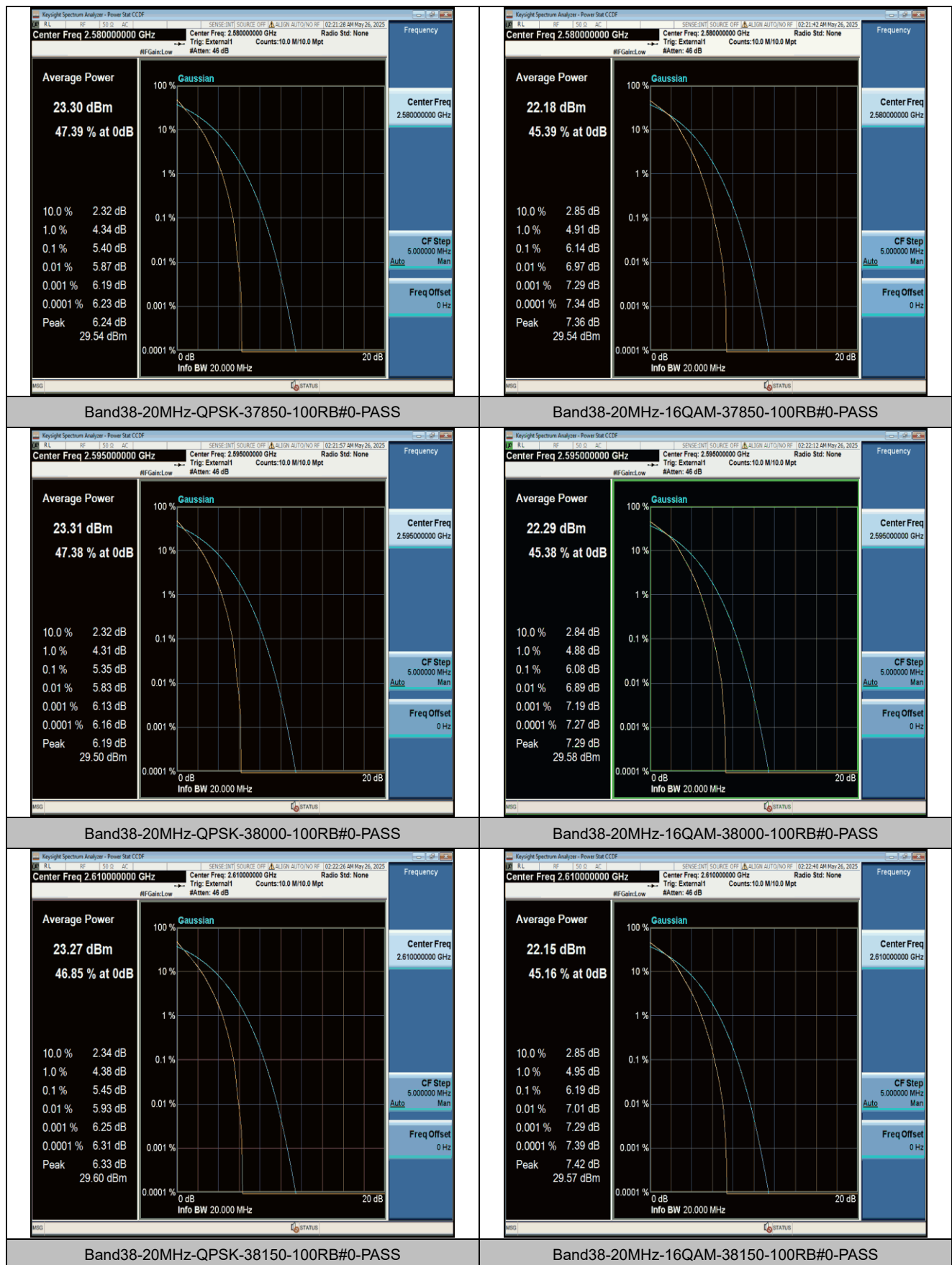
Band38	20MHz	QPSK	38150	1RB#49	23.69	25.09	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.61	25.01	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.57	23.97	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.21	23.61	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.44	23.84	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.33	23.73	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.52	22.92	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	23.03	24.43	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	23.45	24.85	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	23.11	24.51	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.56	22.96	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.86	24.26	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.69	24.09	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.76	24.16	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.6	23	33.00	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	5.40	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	6.14	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	5.35	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	6.08	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	5.45	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	6.19	13	PASS

Test Graphs

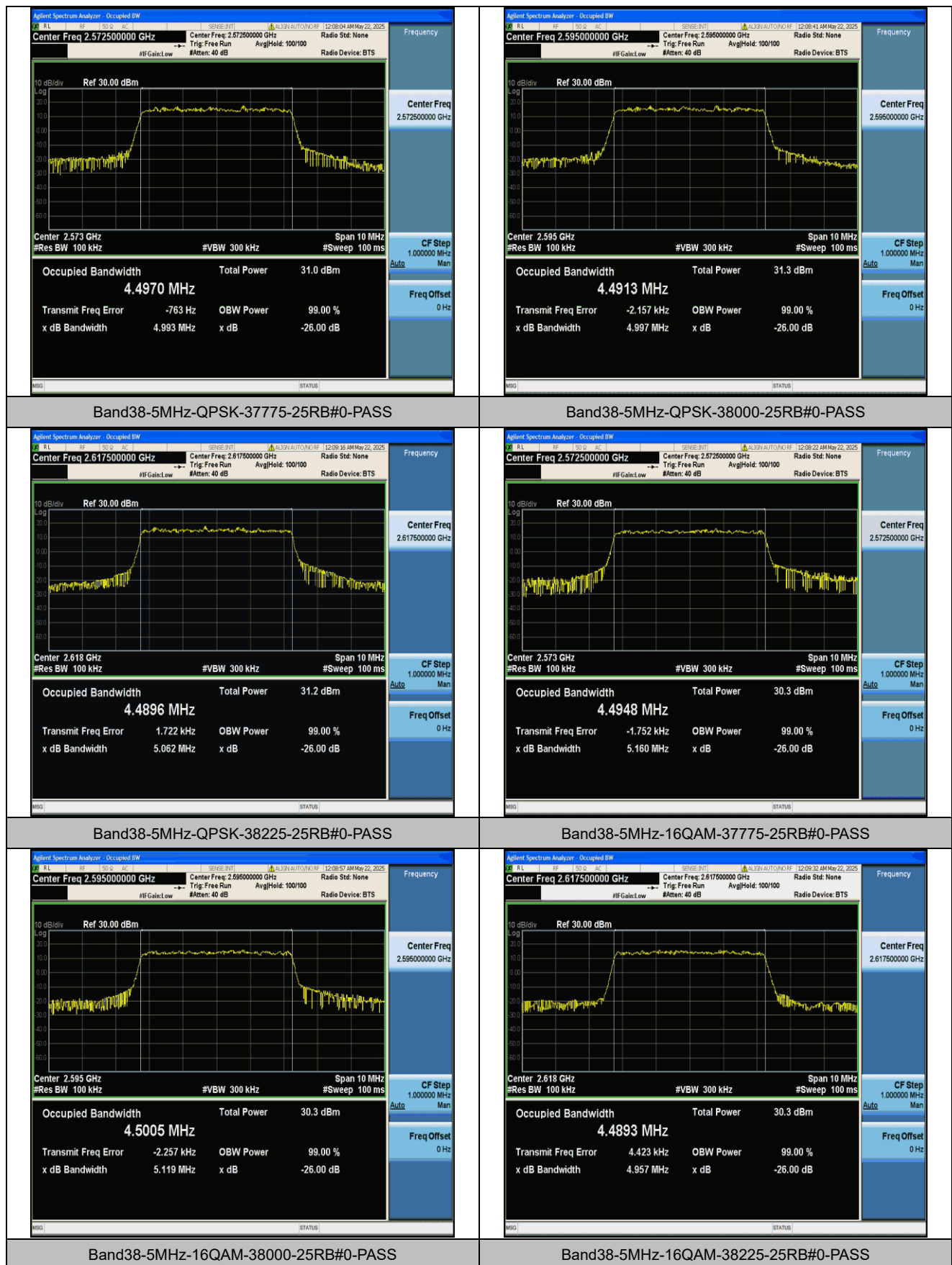


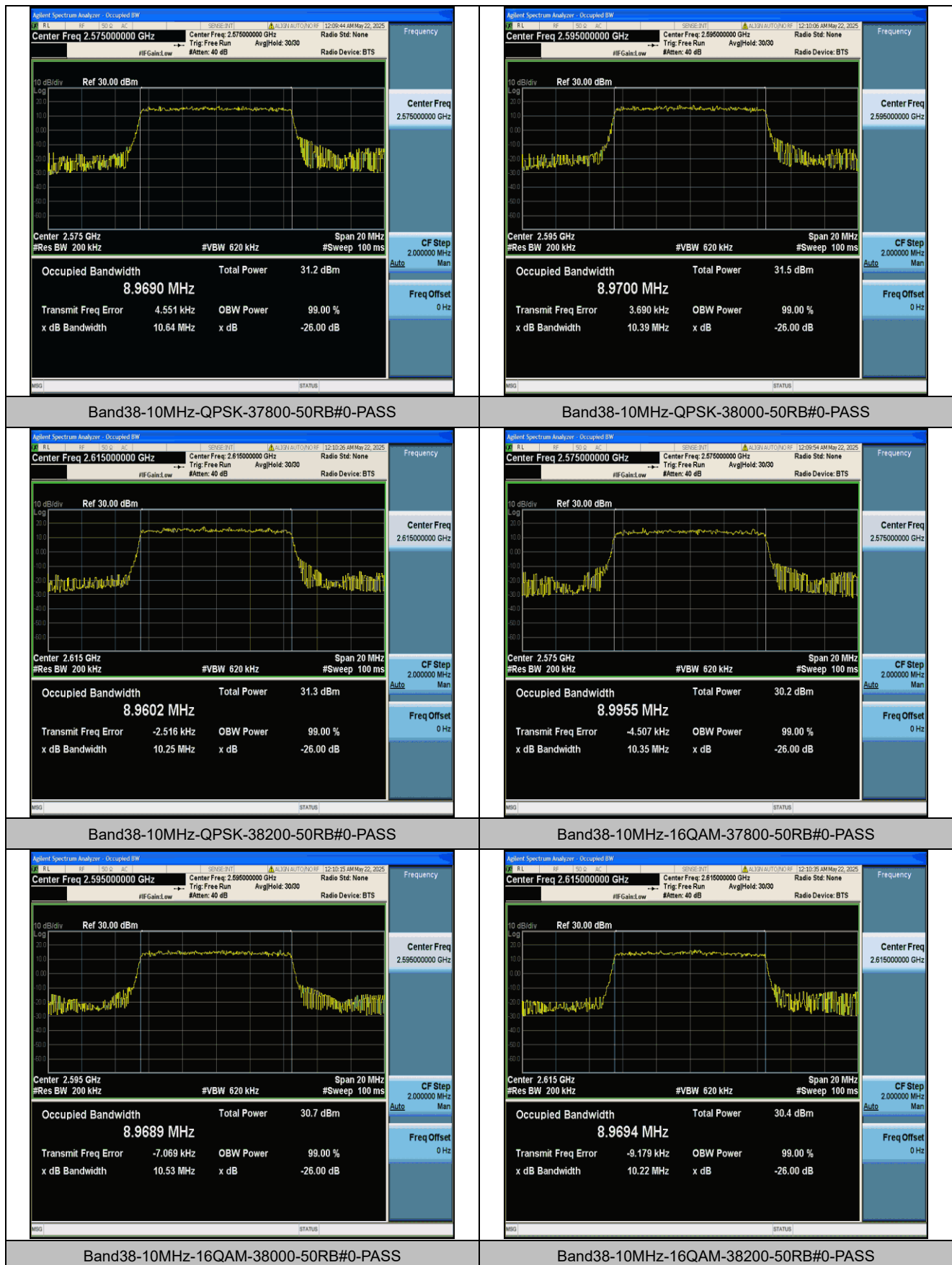
26dB Bandwidth and Occupied Bandwidth

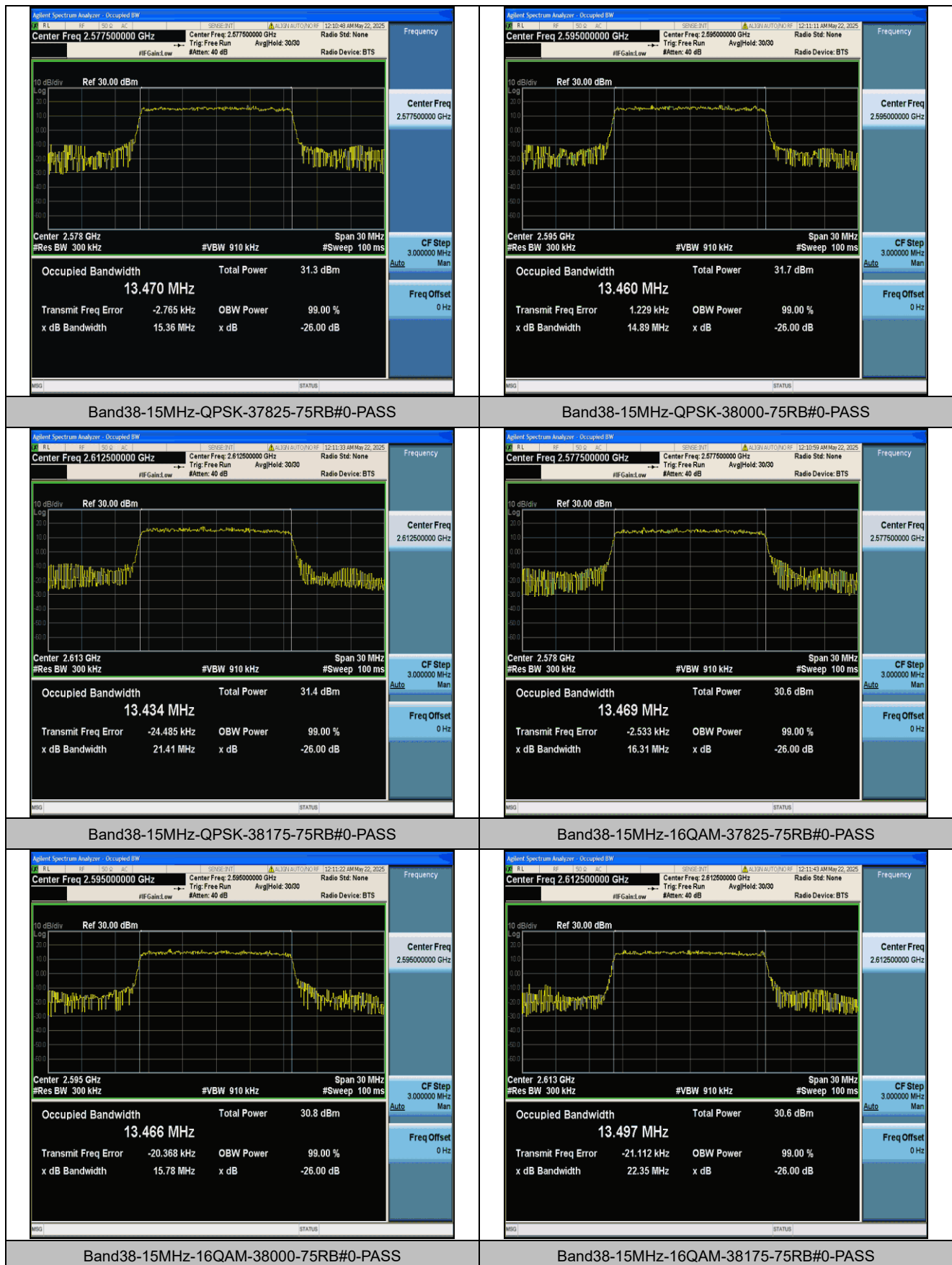
Test Result

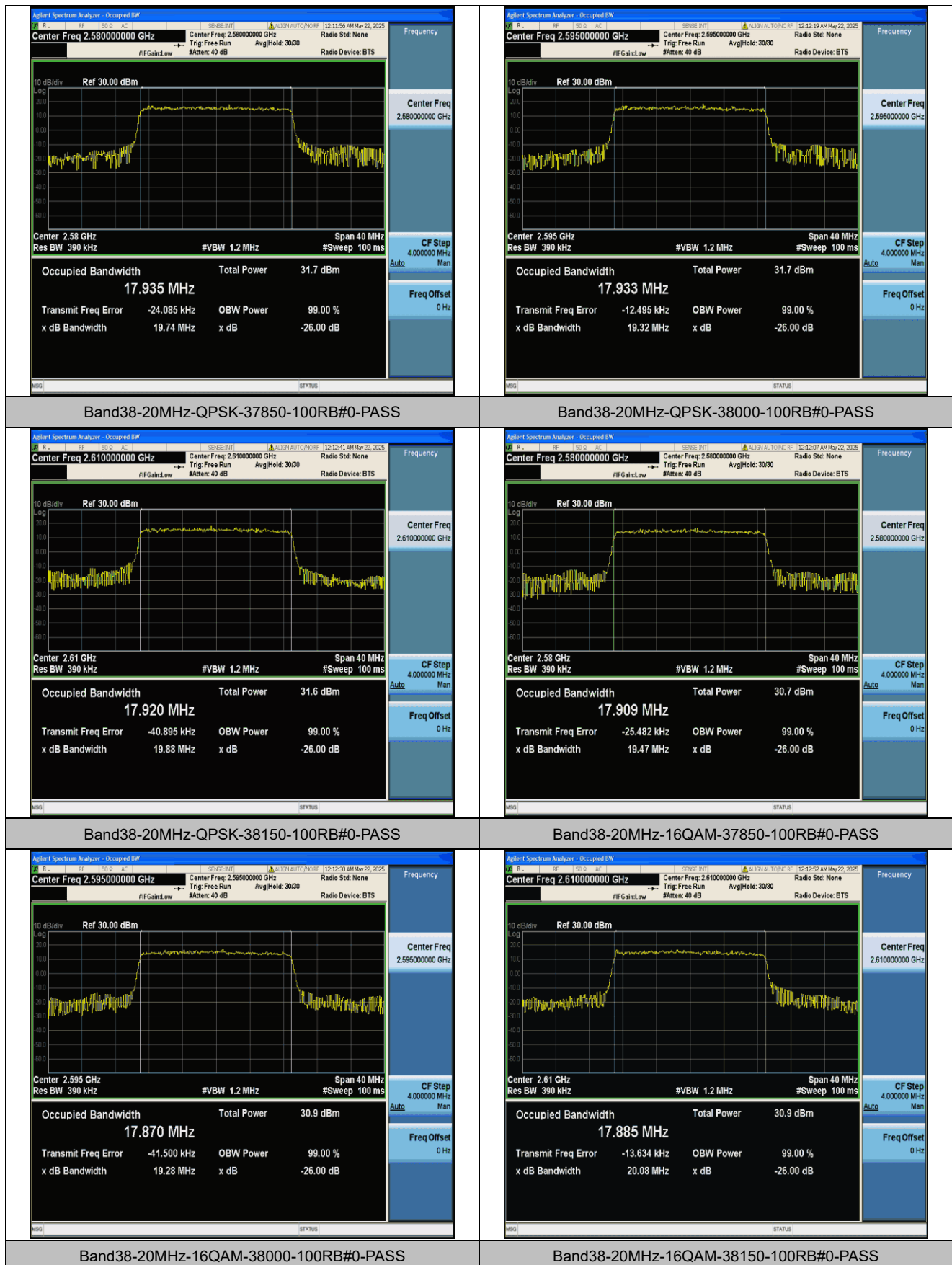
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.4970	4.993	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.4913	4.997	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4896	5.062	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4948	5.160	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5005	5.119	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4893	4.957	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9690	10.64	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9700	10.39	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9602	10.25	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9955	10.35	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9689	10.53	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9694	10.22	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.470	15.36	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.460	14.89	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.434	21.41	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.469	16.31	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.466	15.78	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.497	22.35	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.935	19.74	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.933	19.32	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.920	19.88	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.909	19.47	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.870	19.28	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.885	20.08	PASS

Test Graphs



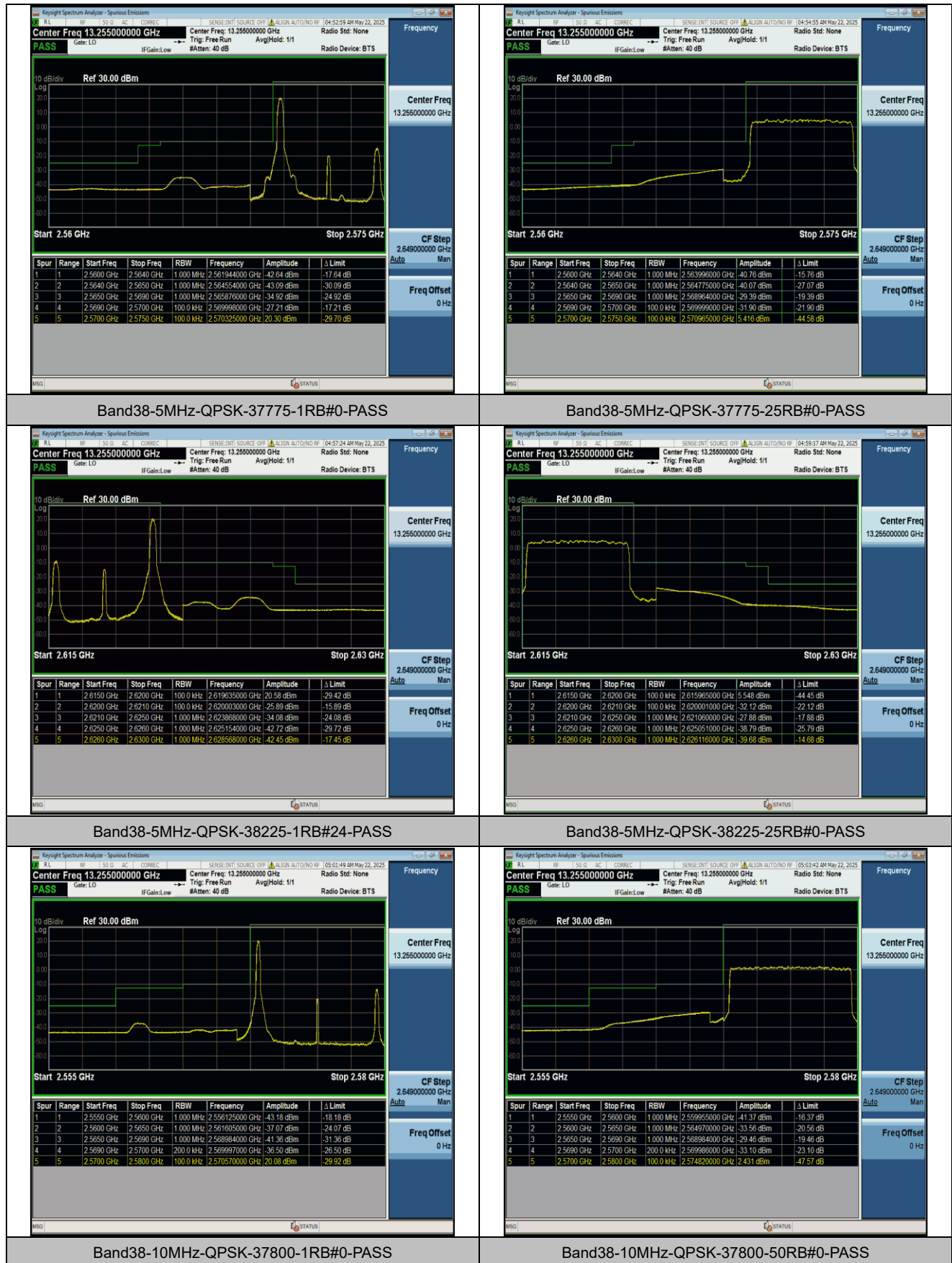


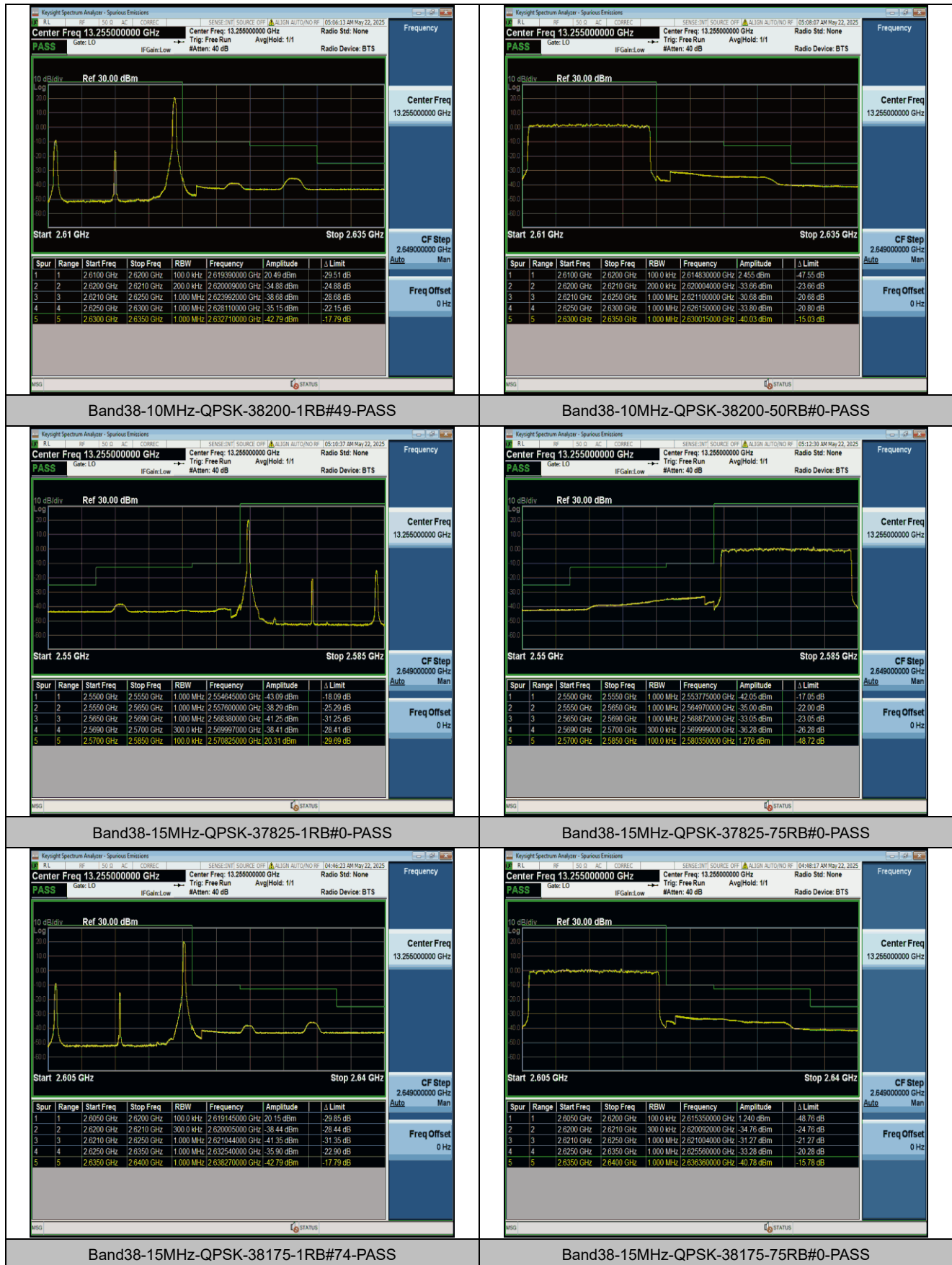


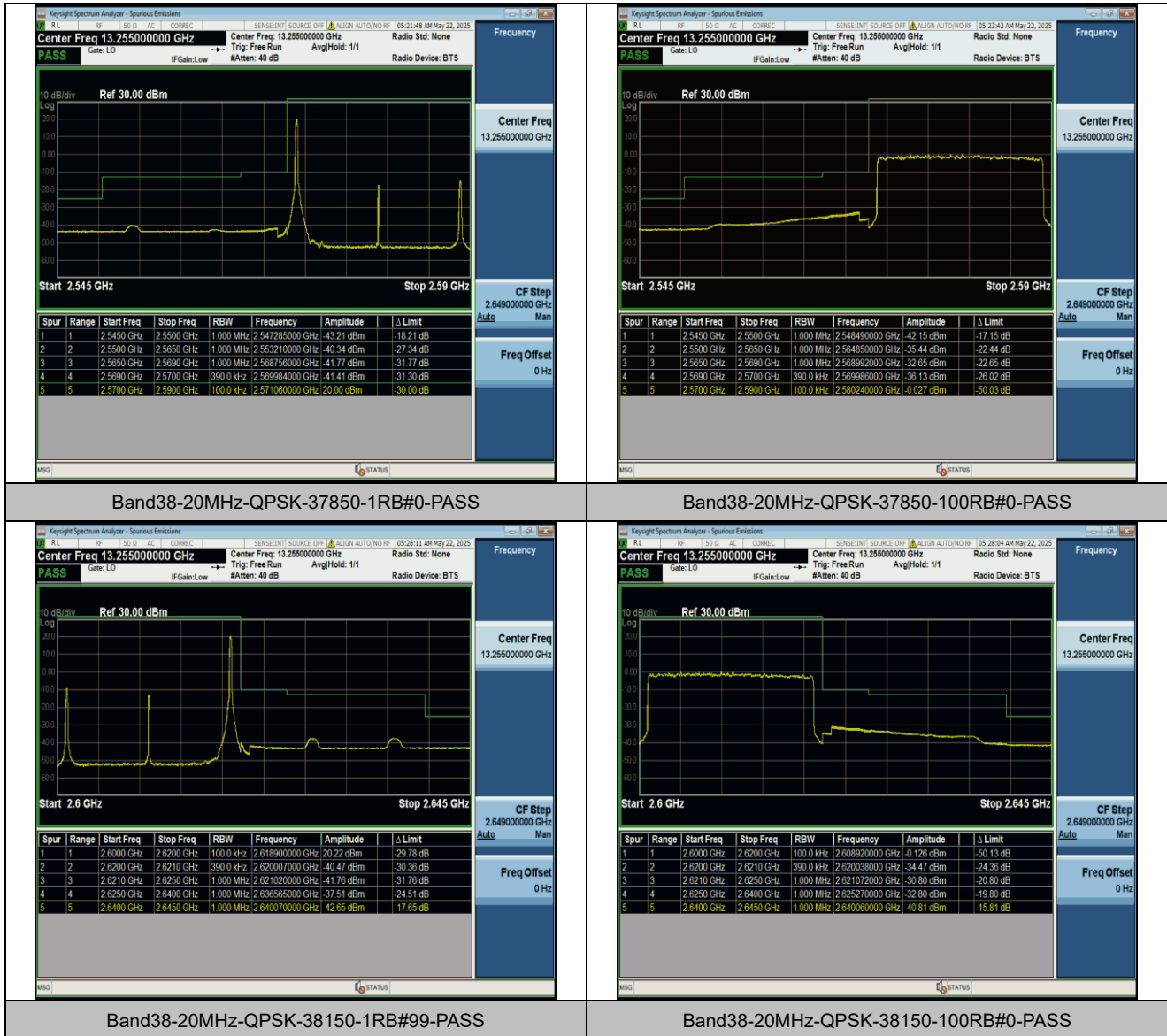


Band Edge

Test Graphs

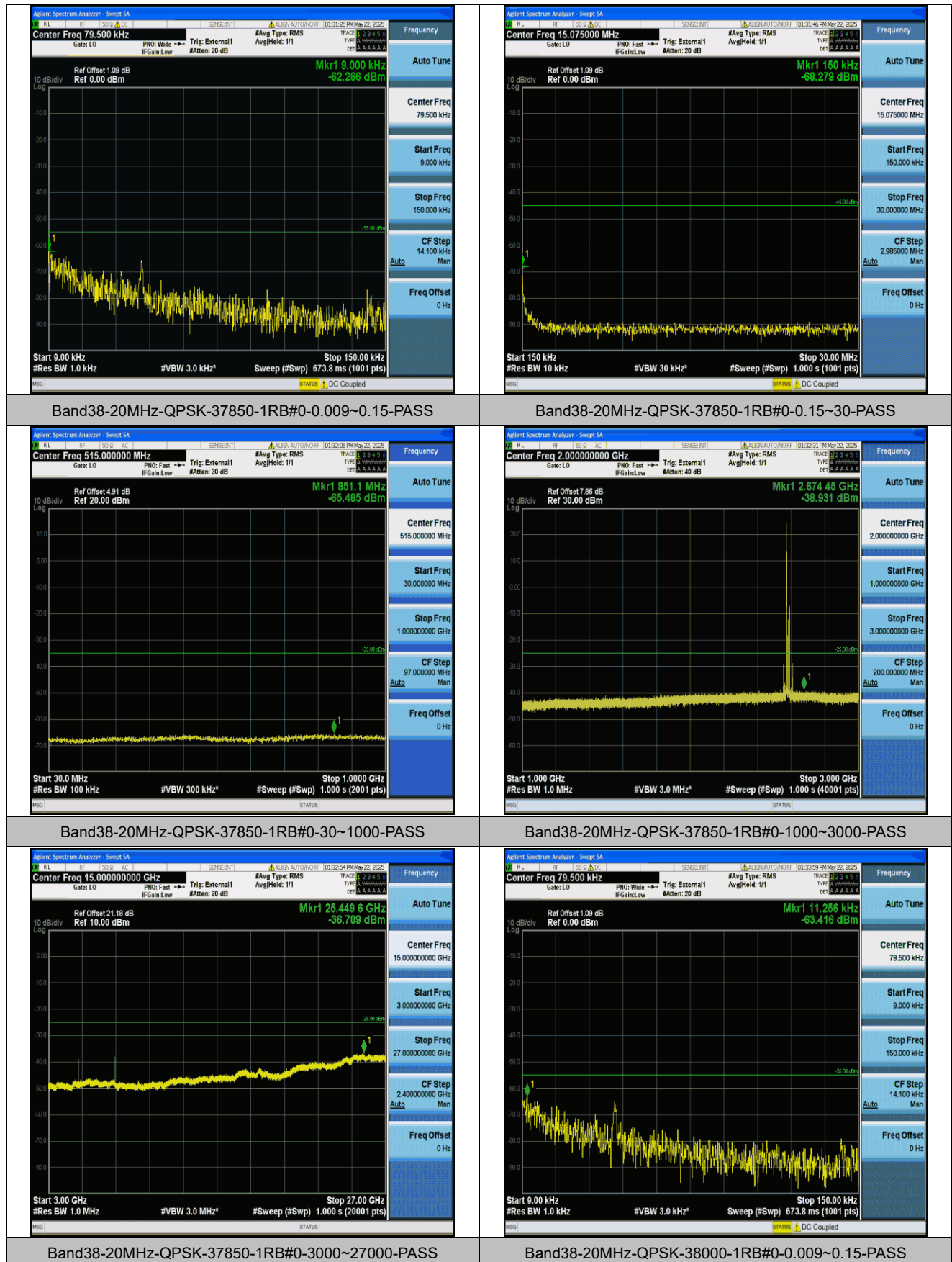


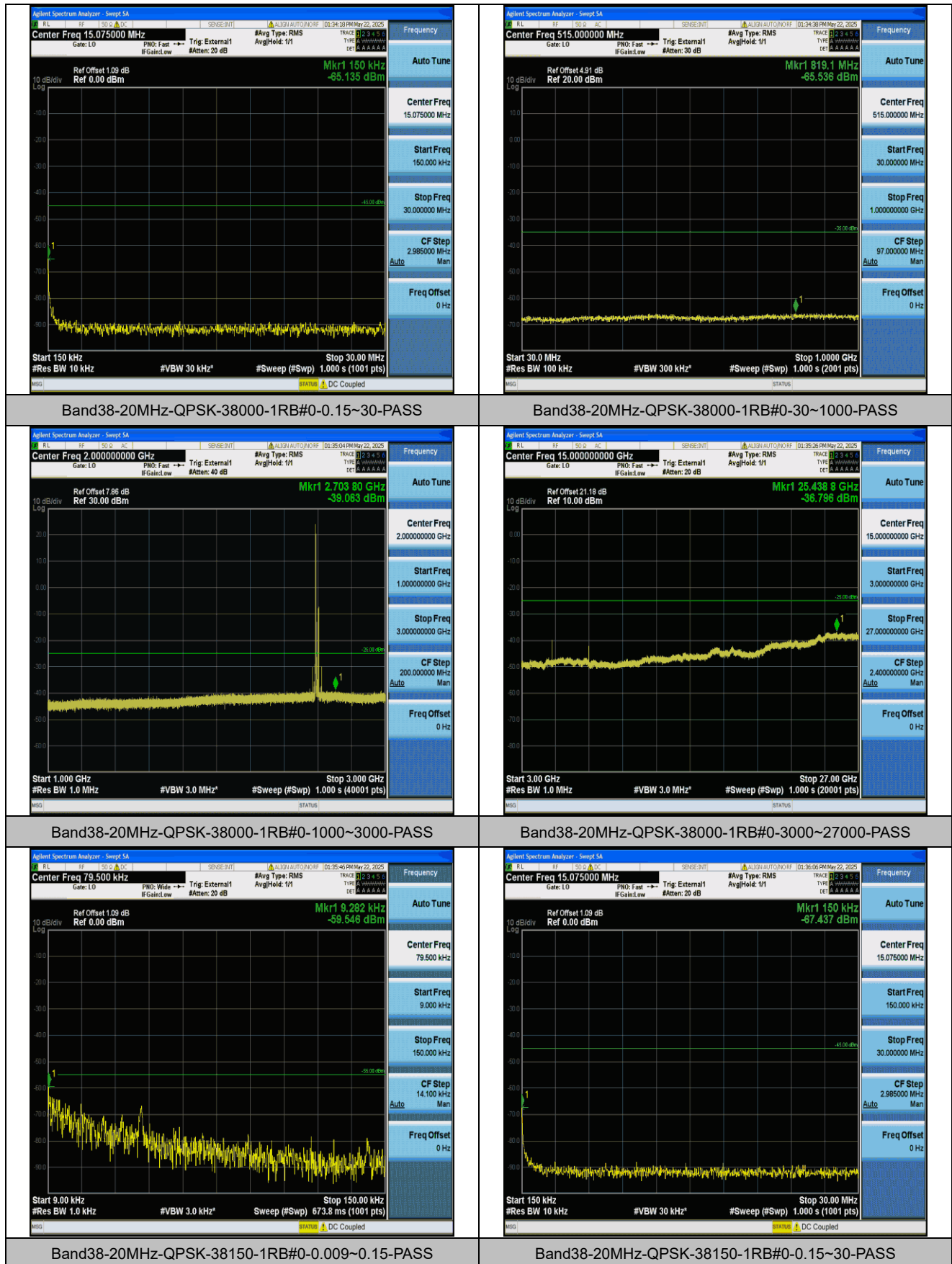


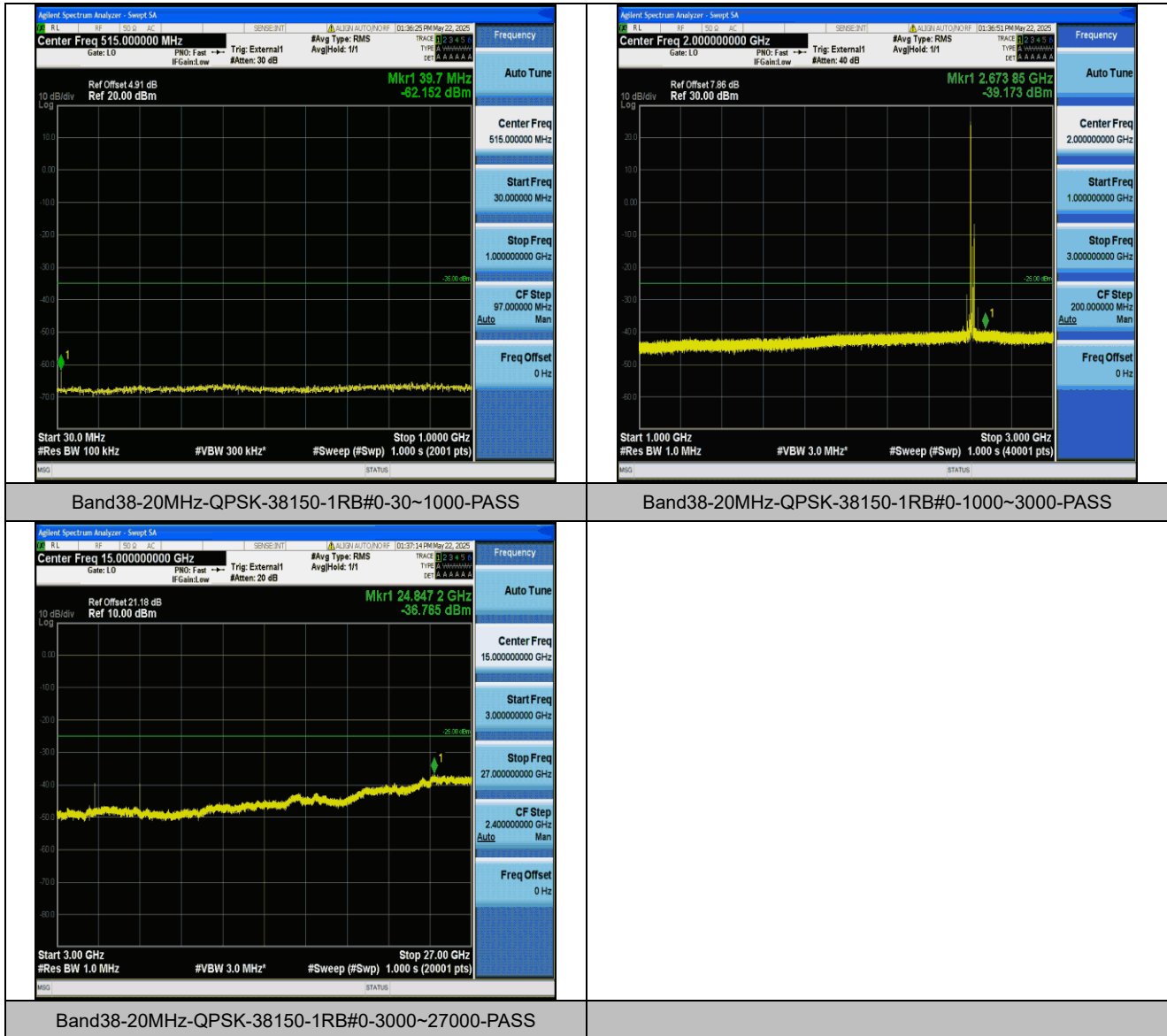


Conducted Spurious Emission

Test Graphs







Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-10.69	-0.004119	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-17.81	-0.006863	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-14.03	-0.005407	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-9.13	-0.003518	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-7.14	-0.002751	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-9.96	-0.003838	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-7.65	-0.002948	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-11.74	-0.004524	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-8.83	-0.003403	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-14.78	-0.005696	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-5.79	-0.002231	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-8.48	-0.003268	PASS

~The End~