

Appendix-A LTE Band 25

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	23.52	25.32	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#2	23.79	25.59	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#5	23.69	25.49	33	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	22.88	24.68	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	22.69	24.49	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#2	22.84	24.64	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#5	22.3	24.1	33	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	21.72	23.52	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	23.59	25.39	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#2	23.69	25.49	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#5	23.54	25.34	33	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	22.77	24.57	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#0	22.52	24.32	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#2	22.49	24.29	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#5	22.29	24.09	33	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	21.77	23.57	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	23.68	25.48	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#2	23.78	25.58	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	23.84	25.64	33	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	22.82	24.62	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	22.98	24.78	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#2	22.65	24.45	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#5	22.91	24.71	33	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	22.03	23.83	33	PASS
Band25	3MHz	QPSK	26055	1RB#0	23.85	25.65	33	PASS
Band25	3MHz	QPSK	26055	1RB#8	23.79	25.59	33	PASS
Band25	3MHz	QPSK	26055	1RB#14	23.74	25.54	33	PASS
Band25	3MHz	QPSK	26055	15RB#0	22.79	24.59	33	PASS
Band25	3MHz	16QAM	26055	1RB#0	22.86	24.66	33	PASS
Band25	3MHz	16QAM	26055	1RB#8	22.69	24.49	33	PASS
Band25	3MHz	16QAM	26055	1RB#14	22.64	24.44	33	PASS
Band25	3MHz	16QAM	26055	15RB#0	21.92	23.72	33	PASS
Band25	3MHz	QPSK	26365	1RB#0	23.72	25.52	33	PASS
Band25	3MHz	QPSK	26365	1RB#8	23.61	25.41	33	PASS
Band25	3MHz	QPSK	26365	1RB#14	23.69	25.49	33	PASS
Band25	3MHz	QPSK	26365	15RB#0	22.78	24.58	33	PASS
Band25	3MHz	16QAM	26365	1RB#0	22.9	24.7	33	PASS

Band25	3MHz	16QAM	26365	1RB#8	22.63	24.43	33	PASS
Band25	3MHz	16QAM	26365	1RB#14	22.57	24.37	33	PASS
Band25	3MHz	16QAM	26365	15RB#0	21.81	23.61	33	PASS
Band25	3MHz	QPSK	26675	1RB#0	23.82	25.62	33	PASS
Band25	3MHz	QPSK	26675	1RB#8	23.86	25.66	33	PASS
Band25	3MHz	QPSK	26675	1RB#14	23.96	25.76	33	PASS
Band25	3MHz	QPSK	26675	15RB#0	22.69	24.49	33	PASS
Band25	3MHz	16QAM	26675	1RB#0	22.68	24.48	33	PASS
Band25	3MHz	16QAM	26675	1RB#8	22.65	24.45	33	PASS
Band25	3MHz	16QAM	26675	1RB#14	22.68	24.48	33	PASS
Band25	3MHz	16QAM	26675	15RB#0	22.17	23.97	33	PASS
Band25	5MHz	QPSK	26065	1RB#0	23.61	25.41	33	PASS
Band25	5MHz	QPSK	26065	1RB#12	23.78	25.58	33	PASS
Band25	5MHz	QPSK	26065	1RB#24	23.75	25.55	33	PASS
Band25	5MHz	QPSK	26065	25RB#0	22.91	24.71	33	PASS
Band25	5MHz	16QAM	26065	1RB#0	22.53	24.33	33	PASS
Band25	5MHz	16QAM	26065	1RB#12	22.74	24.54	33	PASS
Band25	5MHz	16QAM	26065	1RB#24	22.65	24.45	33	PASS
Band25	5MHz	16QAM	26065	25RB#0	21.96	23.76	33	PASS
Band25	5MHz	QPSK	26365	1RB#0	23.59	25.39	33	PASS
Band25	5MHz	QPSK	26365	1RB#12	23.86	25.66	33	PASS
Band25	5MHz	QPSK	26365	1RB#24	23.68	25.48	33	PASS
Band25	5MHz	QPSK	26365	25RB#0	22.85	24.65	33	PASS
Band25	5MHz	16QAM	26365	1RB#0	22.34	24.14	33	PASS
Band25	5MHz	16QAM	26365	1RB#12	22.83	24.63	33	PASS
Band25	5MHz	16QAM	26365	1RB#24	22.75	24.55	33	PASS
Band25	5MHz	16QAM	26365	25RB#0	22.02	23.82	33	PASS
Band25	5MHz	QPSK	26665	1RB#0	23.87	25.67	33	PASS
Band25	5MHz	QPSK	26665	1RB#12	23.91	25.71	33	PASS
Band25	5MHz	QPSK	26665	1RB#24	23.87	25.67	33	PASS
Band25	5MHz	QPSK	26665	25RB#0	22.86	24.66	33	PASS
Band25	5MHz	16QAM	26665	1RB#0	22.81	24.61	33	PASS
Band25	5MHz	16QAM	26665	1RB#12	22.69	24.49	33	PASS
Band25	5MHz	16QAM	26665	1RB#24	22.75	24.55	33	PASS
Band25	5MHz	16QAM	26665	25RB#0	22.04	23.84	33	PASS
Band25	10MHz	QPSK	26090	1RB#0	23.87	25.67	33	PASS
Band25	10MHz	QPSK	26090	1RB#24	23.89	25.69	33	PASS
Band25	10MHz	QPSK	26090	1RB#49	23.82	25.62	33	PASS
Band25	10MHz	QPSK	26090	50RB#0	22.89	24.69	33	PASS
Band25	10MHz	16QAM	26090	1RB#0	22.81	24.61	33	PASS
Band25	10MHz	16QAM	26090	1RB#24	22.76	24.56	33	PASS
Band25	10MHz	16QAM	26090	1RB#49	22.96	24.76	33	PASS
Band25	10MHz	16QAM	26090	50RB#0	21.87	23.67	33	PASS
Band25	10MHz	QPSK	26365	1RB#0	23.83	25.63	33	PASS
Band25	10MHz	QPSK	26365	1RB#24	23.87	25.67	33	PASS

Band25	10MHz	QPSK	26365	1RB#49	23.59	25.39	33	PASS
Band25	10MHz	QPSK	26365	50RB#0	22.86	24.66	33	PASS
Band25	10MHz	16QAM	26365	1RB#0	22.81	24.61	33	PASS
Band25	10MHz	16QAM	26365	1RB#24	22.49	24.29	33	PASS
Band25	10MHz	16QAM	26365	1RB#49	22.86	24.66	33	PASS
Band25	10MHz	16QAM	26365	50RB#0	21.87	23.67	33	PASS
Band25	10MHz	QPSK	26640	1RB#0	23.93	25.73	33	PASS
Band25	10MHz	QPSK	26640	1RB#24	23.81	25.61	33	PASS
Band25	10MHz	QPSK	26640	1RB#49	23.71	25.51	33	PASS
Band25	10MHz	QPSK	26640	50RB#0	22.75	24.55	33	PASS
Band25	10MHz	16QAM	26640	1RB#0	22.86	24.66	33	PASS
Band25	10MHz	16QAM	26640	1RB#24	22.67	24.47	33	PASS
Band25	10MHz	16QAM	26640	1RB#49	22.75	24.55	33	PASS
Band25	10MHz	16QAM	26640	50RB#0	22.01	23.81	33	PASS
Band25	15MHz	QPSK	26115	1RB#0	23.76	25.56	33	PASS
Band25	15MHz	QPSK	26115	1RB#38	23.77	25.57	33	PASS
Band25	15MHz	QPSK	26115	1RB#74	23.72	25.52	33	PASS
Band25	15MHz	QPSK	26115	75RB#0	22.88	24.68	33	PASS
Band25	15MHz	16QAM	26115	1RB#0	22.83	24.63	33	PASS
Band25	15MHz	16QAM	26115	1RB#38	22.66	24.46	33	PASS
Band25	15MHz	16QAM	26115	1RB#74	22.69	24.49	33	PASS
Band25	15MHz	16QAM	26115	75RB#0	21.93	23.73	33	PASS
Band25	15MHz	QPSK	26365	1RB#0	23.75	25.55	33	PASS
Band25	15MHz	QPSK	26365	1RB#38	23.69	25.49	33	PASS
Band25	15MHz	QPSK	26365	1RB#74	23.7	25.5	33	PASS
Band25	15MHz	QPSK	26365	75RB#0	22.83	24.63	33	PASS
Band25	15MHz	16QAM	26365	1RB#0	22.81	24.61	33	PASS
Band25	15MHz	16QAM	26365	1RB#38	22.79	24.59	33	PASS
Band25	15MHz	16QAM	26365	1RB#74	22.49	24.29	33	PASS
Band25	15MHz	16QAM	26365	75RB#0	21.89	23.69	33	PASS
Band25	15MHz	QPSK	26615	1RB#0	23.9	25.7	33	PASS
Band25	15MHz	QPSK	26615	1RB#38	23.71	25.51	33	PASS
Band25	15MHz	QPSK	26615	1RB#74	23.73	25.53	33	PASS
Band25	15MHz	QPSK	26615	75RB#0	22.9	24.7	33	PASS
Band25	15MHz	16QAM	26615	1RB#0	22.81	24.61	33	PASS
Band25	15MHz	16QAM	26615	1RB#38	22.95	24.75	33	PASS
Band25	15MHz	16QAM	26615	1RB#74	22.75	24.55	33	PASS
Band25	15MHz	16QAM	26615	75RB#0	22.02	23.82	33	PASS
Band25	20MHz	QPSK	26140	1RB#0	23.73	25.53	33	PASS
Band25	20MHz	QPSK	26140	1RB#49	23.96	25.76	33	PASS
Band25	20MHz	QPSK	26140	1RB#99	23.82	25.62	33	PASS
Band25	20MHz	QPSK	26140	100RB#0	22.88	24.68	33	PASS
Band25	20MHz	16QAM	26140	1RB#0	22.59	24.39	33	PASS
Band25	20MHz	16QAM	26140	1RB#49	22.44	24.24	33	PASS
Band25	20MHz	16QAM	26140	1RB#99	22.72	24.52	33	PASS

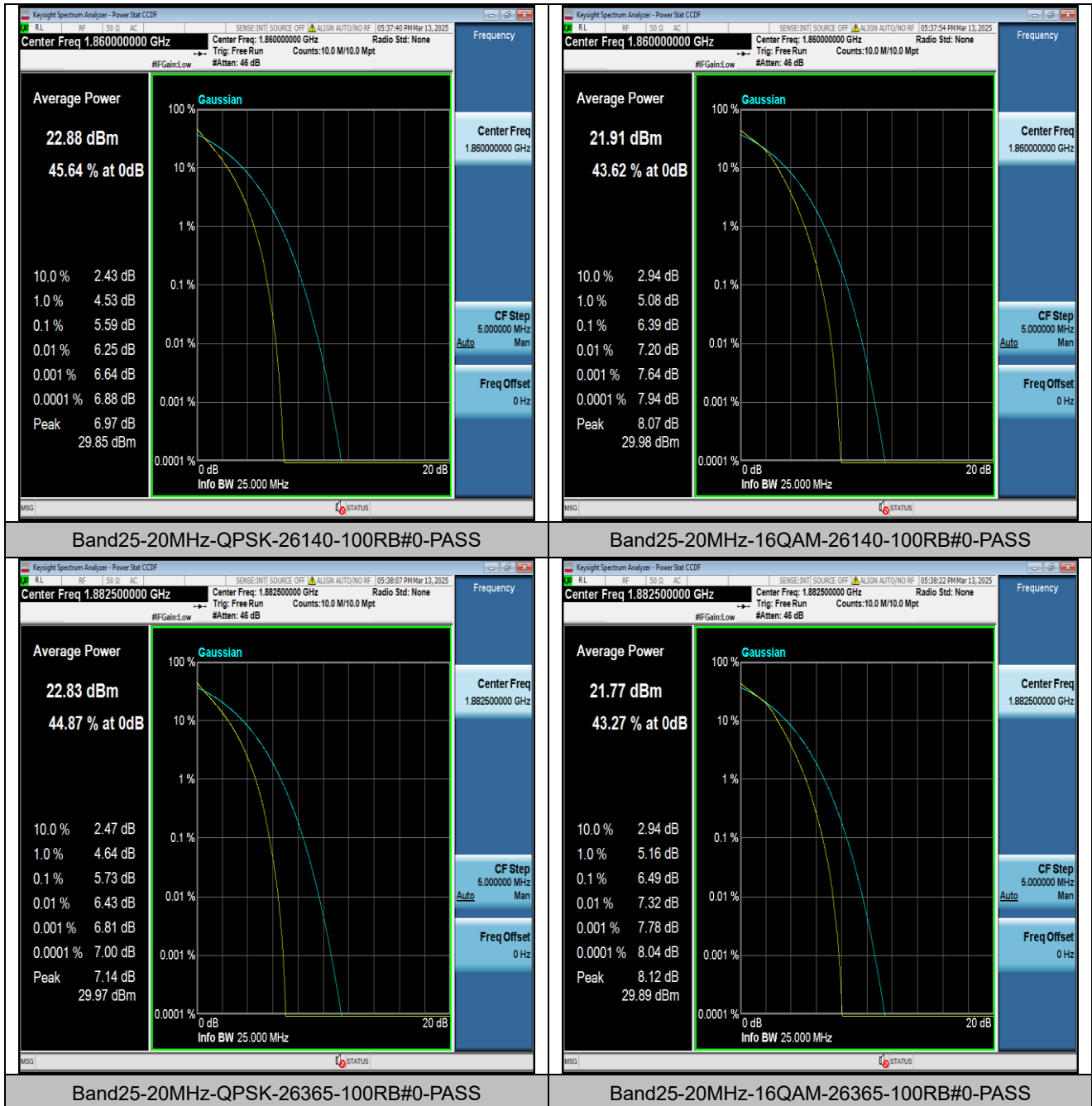
Band25	20MHz	16QAM	26140	100RB#0	21.94	23.74	33	PASS
Band25	20MHz	QPSK	26365	1RB#0	23.7	25.5	33	PASS
Band25	20MHz	QPSK	26365	1RB#49	23.86	25.66	33	PASS
Band25	20MHz	QPSK	26365	1RB#99	23.62	25.42	33	PASS
Band25	20MHz	QPSK	26365	100RB#0	22.84	24.64	33	PASS
Band25	20MHz	16QAM	26365	1RB#0	22.74	24.54	33	PASS
Band25	20MHz	16QAM	26365	1RB#49	22.59	24.39	33	PASS
Band25	20MHz	16QAM	26365	1RB#99	22.39	24.19	33	PASS
Band25	20MHz	16QAM	26365	100RB#0	21.81	23.61	33	PASS
Band25	20MHz	QPSK	26590	1RB#0	23.85	25.65	33	PASS
Band25	20MHz	QPSK	26590	1RB#49	23.88	25.68	33	PASS
Band25	20MHz	QPSK	26590	1RB#99	23.73	25.53	33	PASS
Band25	20MHz	QPSK	26590	100RB#0	22.96	24.76	33	PASS
Band25	20MHz	16QAM	26590	1RB#0	22.65	24.45	33	PASS
Band25	20MHz	16QAM	26590	1RB#49	22.71	24.51	33	PASS
Band25	20MHz	16QAM	26590	1RB#99	22.78	24.58	33	PASS
Band25	20MHz	16QAM	26590	100RB#0	21.84	23.64	33	PASS

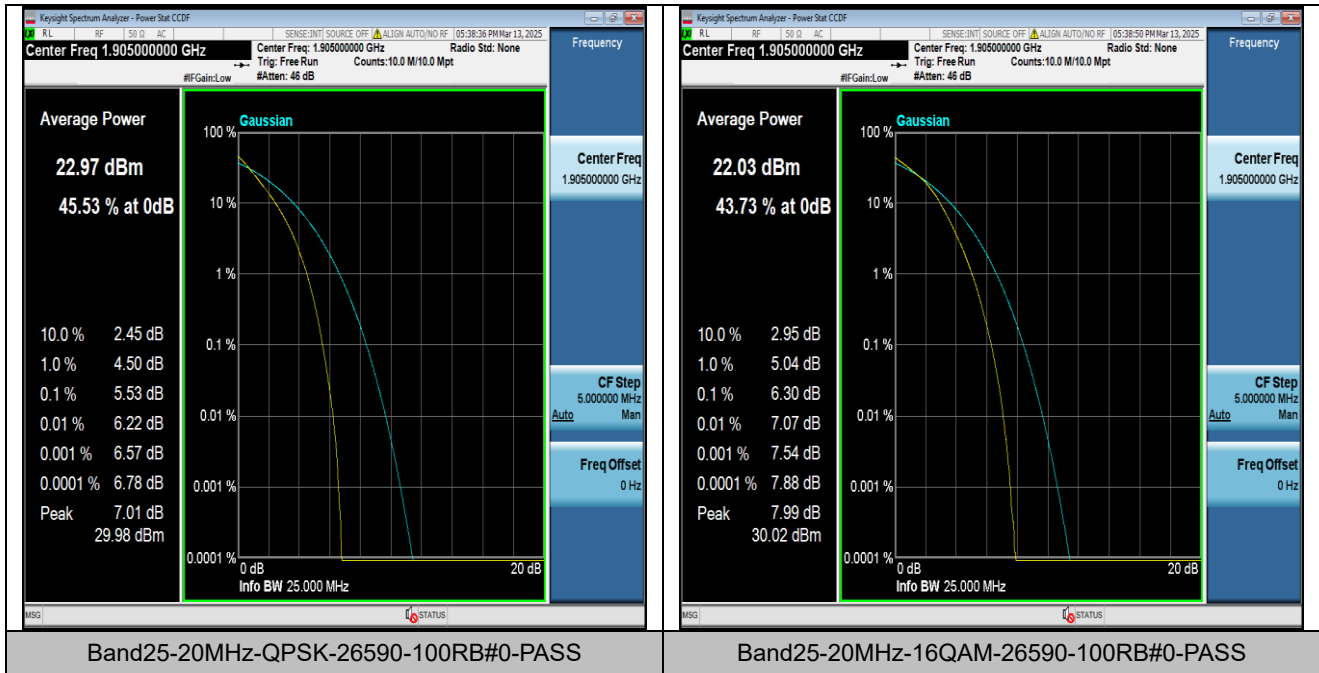
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	5.59	13	PASS
Band25	20MHz	16QAM	26140	100RB#0	6.39	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	5.73	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.49	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	5.53	13	PASS
Band25	20MHz	16QAM	26590	100RB#0	6.30	13	PASS

Test Graphs

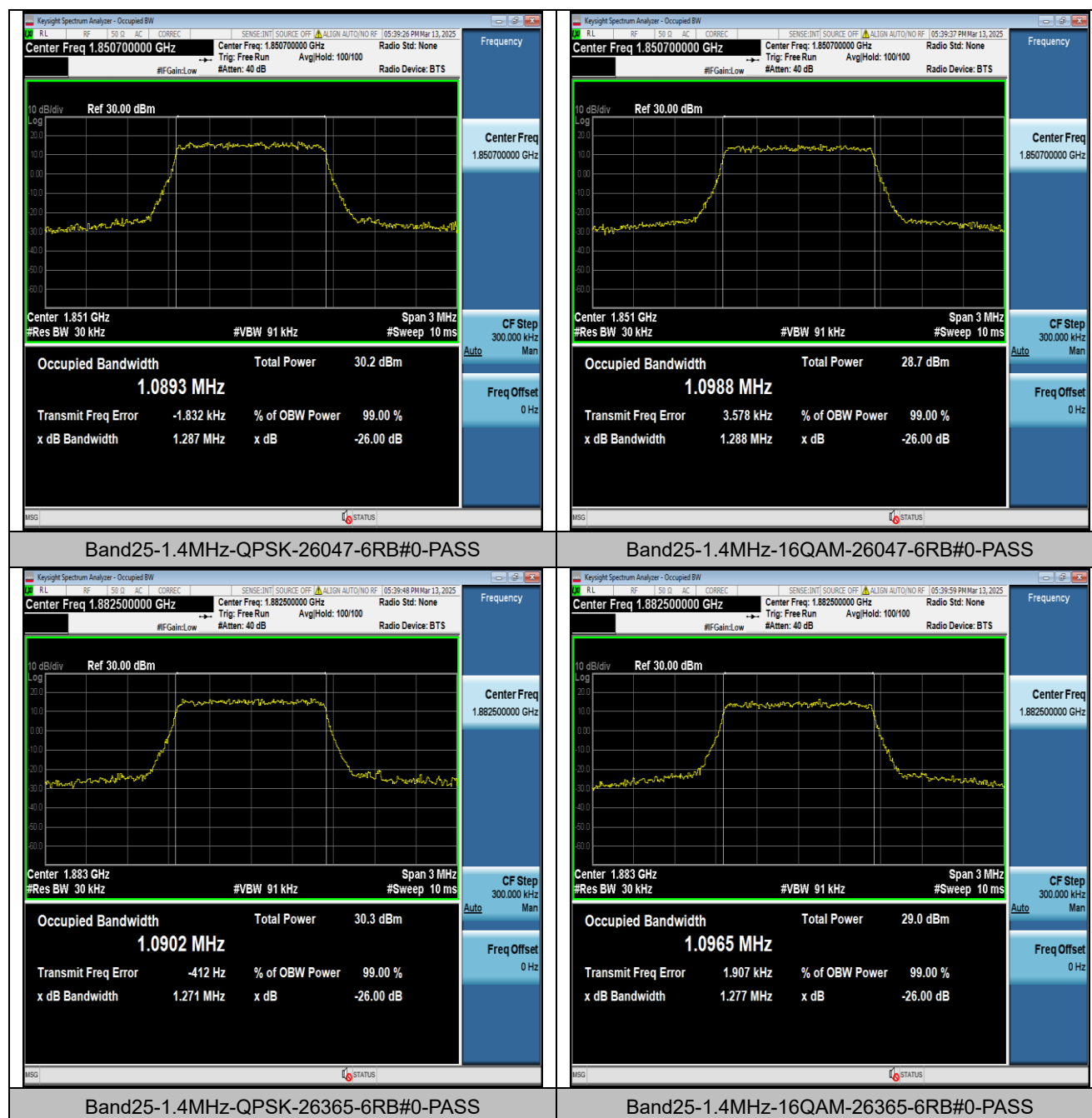


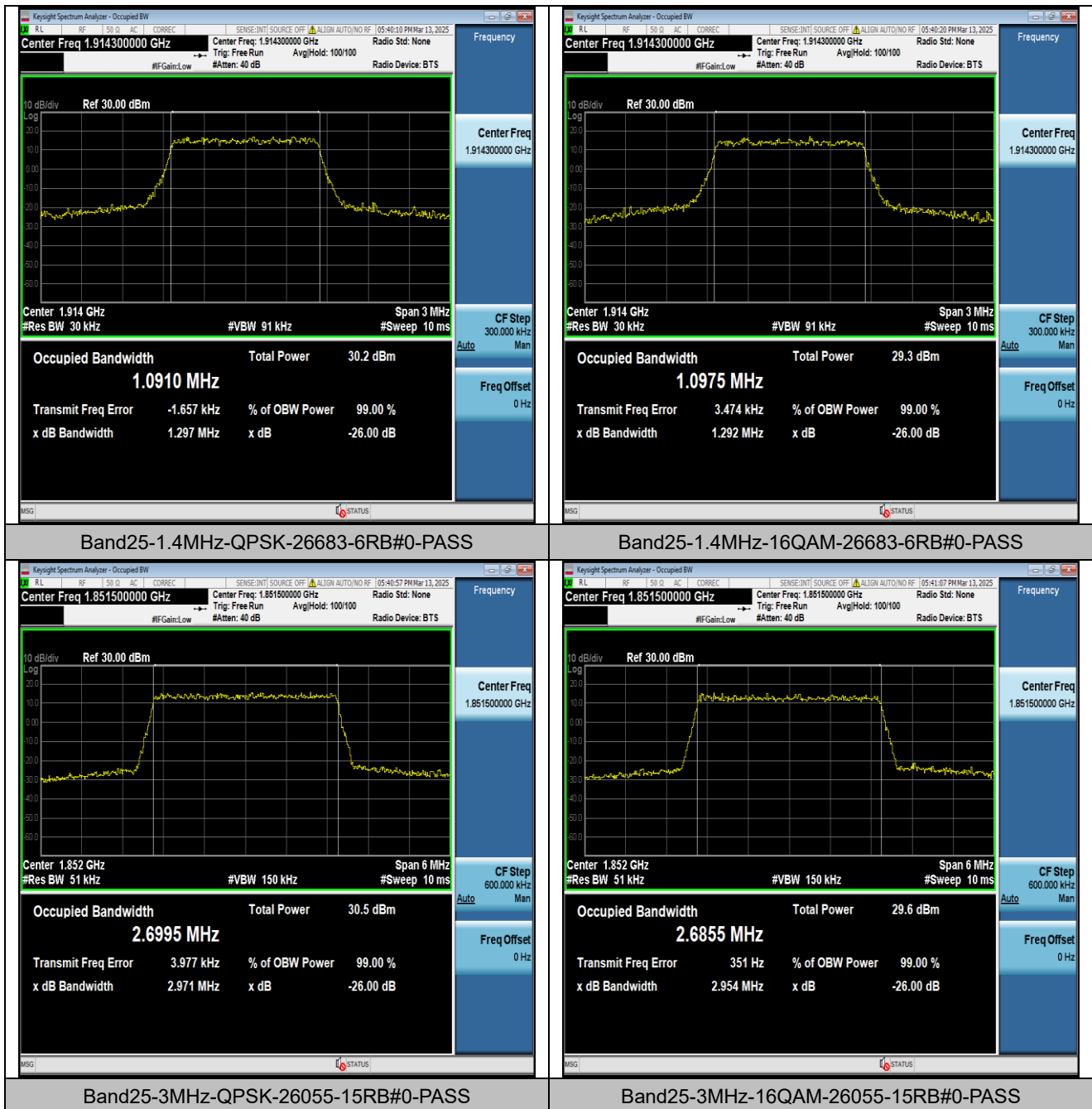


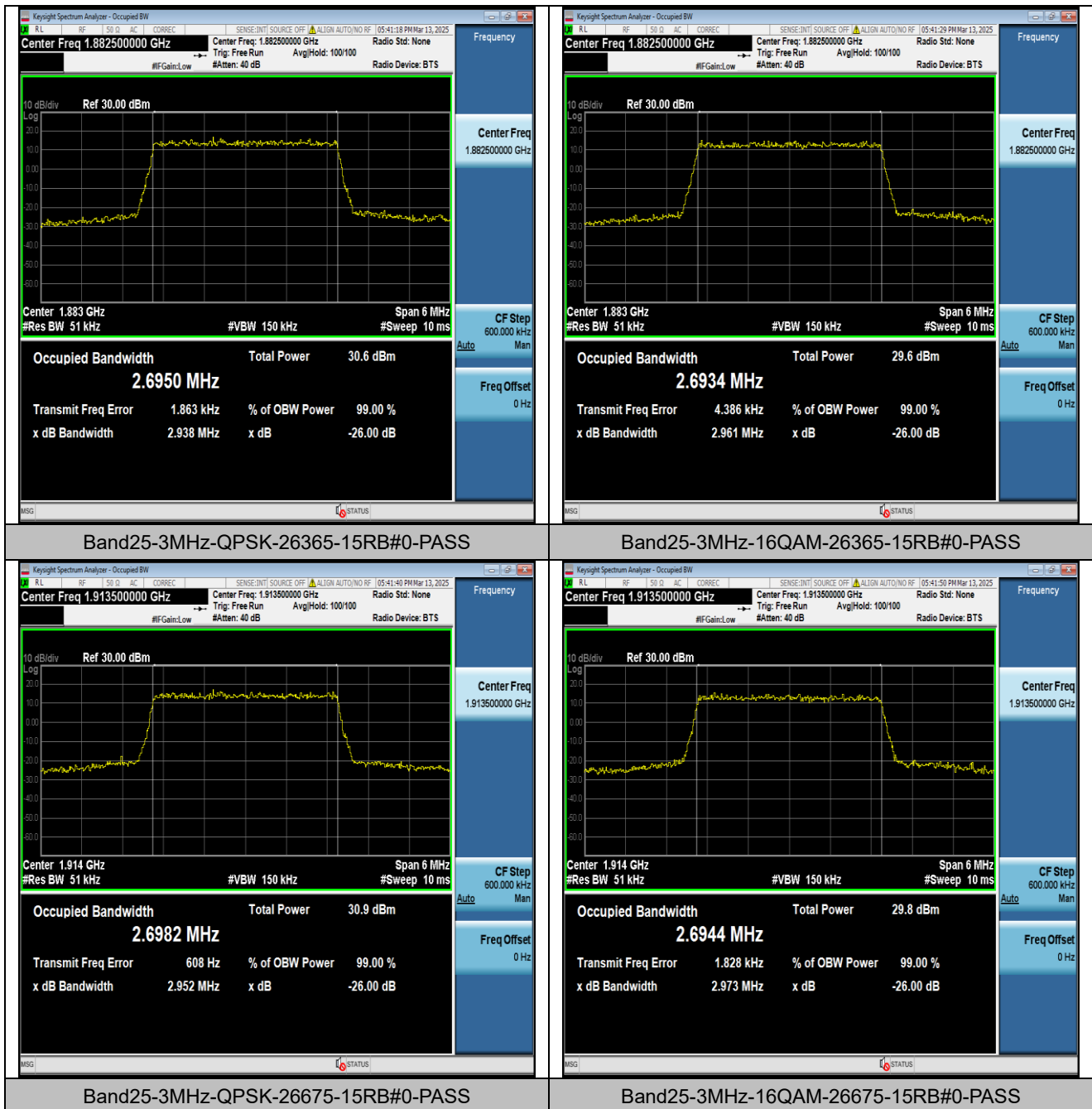
26dB Bandwidth and Occupied Bandwidth

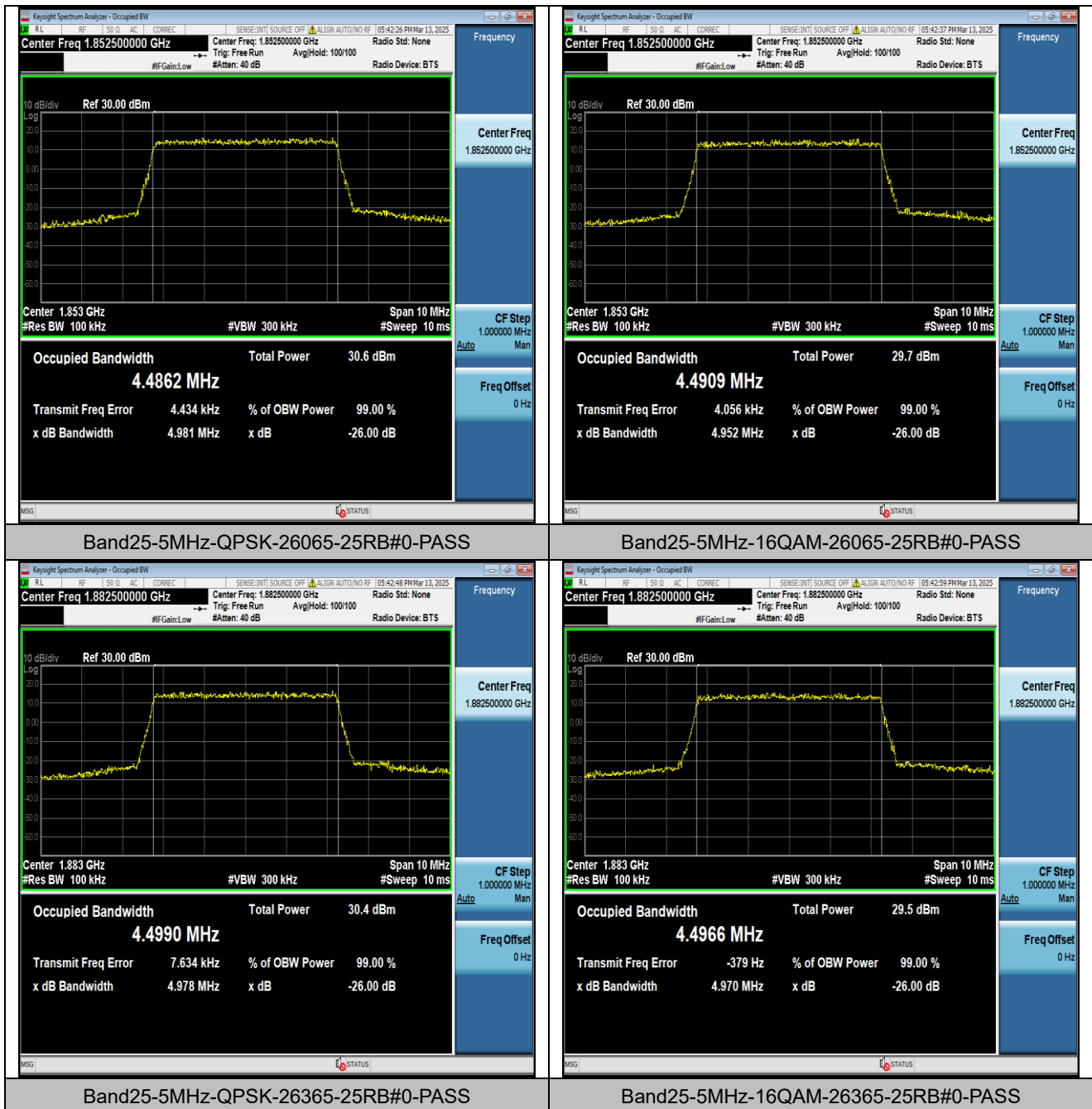
Test Result

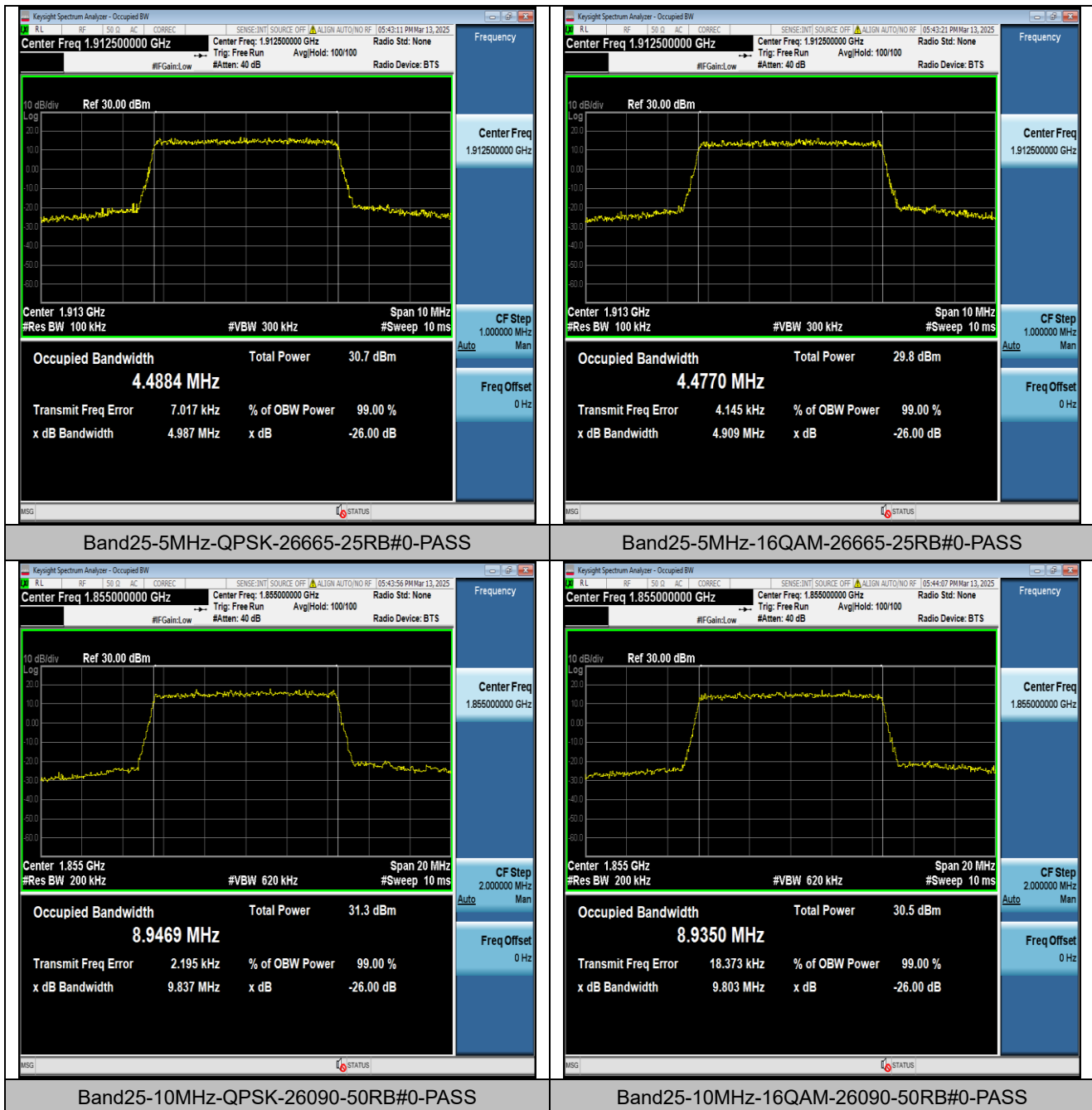
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band25	1.4MHz	QPSK	26047	6RB#0	1.0893	1.287	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	1.0988	1.288	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	1.0902	1.271	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	1.0965	1.277	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	1.0910	1.297	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	1.0975	1.292	PASS
Band25	3MHz	QPSK	26055	15RB#0	2.6995	2.971	PASS
Band25	3MHz	16QAM	26055	15RB#0	2.6855	2.954	PASS
Band25	3MHz	QPSK	26365	15RB#0	2.6950	2.938	PASS
Band25	3MHz	16QAM	26365	15RB#0	2.6934	2.961	PASS
Band25	3MHz	QPSK	26675	15RB#0	2.6982	2.952	PASS
Band25	3MHz	16QAM	26675	15RB#0	2.6944	2.973	PASS
Band25	5MHz	QPSK	26065	25RB#0	4.4862	4.981	PASS
Band25	5MHz	16QAM	26065	25RB#0	4.4909	4.952	PASS
Band25	5MHz	QPSK	26365	25RB#0	4.4990	4.978	PASS
Band25	5MHz	16QAM	26365	25RB#0	4.4966	4.970	PASS
Band25	5MHz	QPSK	26665	25RB#0	4.4884	4.987	PASS
Band25	5MHz	16QAM	26665	25RB#0	4.4770	4.909	PASS
Band25	10MHz	QPSK	26090	50RB#0	8.9469	9.837	PASS
Band25	10MHz	16QAM	26090	50RB#0	8.9350	9.803	PASS
Band25	10MHz	QPSK	26365	50RB#0	8.9815	9.877	PASS
Band25	10MHz	16QAM	26365	50RB#0	8.9542	9.762	PASS
Band25	10MHz	QPSK	26640	50RB#0	9.0051	9.775	PASS
Band25	10MHz	16QAM	26640	50RB#0	8.9574	9.799	PASS
Band25	15MHz	QPSK	26115	75RB#0	13.427	14.62	PASS
Band25	15MHz	16QAM	26115	75RB#0	13.419	14.67	PASS
Band25	15MHz	QPSK	26365	75RB#0	13.489	14.72	PASS
Band25	15MHz	16QAM	26365	75RB#0	13.462	14.63	PASS
Band25	15MHz	QPSK	26615	75RB#0	13.441	14.64	PASS
Band25	15MHz	16QAM	26615	75RB#0	13.417	14.70	PASS
Band25	20MHz	QPSK	26140	100RB#0	17.899	19.31	PASS
Band25	20MHz	16QAM	26140	100RB#0	17.871	19.42	PASS
Band25	20MHz	QPSK	26365	100RB#0	17.944	19.39	PASS
Band25	20MHz	16QAM	26365	100RB#0	17.946	19.42	PASS
Band25	20MHz	QPSK	26590	100RB#0	17.964	19.37	PASS
Band25	20MHz	16QAM	26590	100RB#0	17.892	19.38	PASS

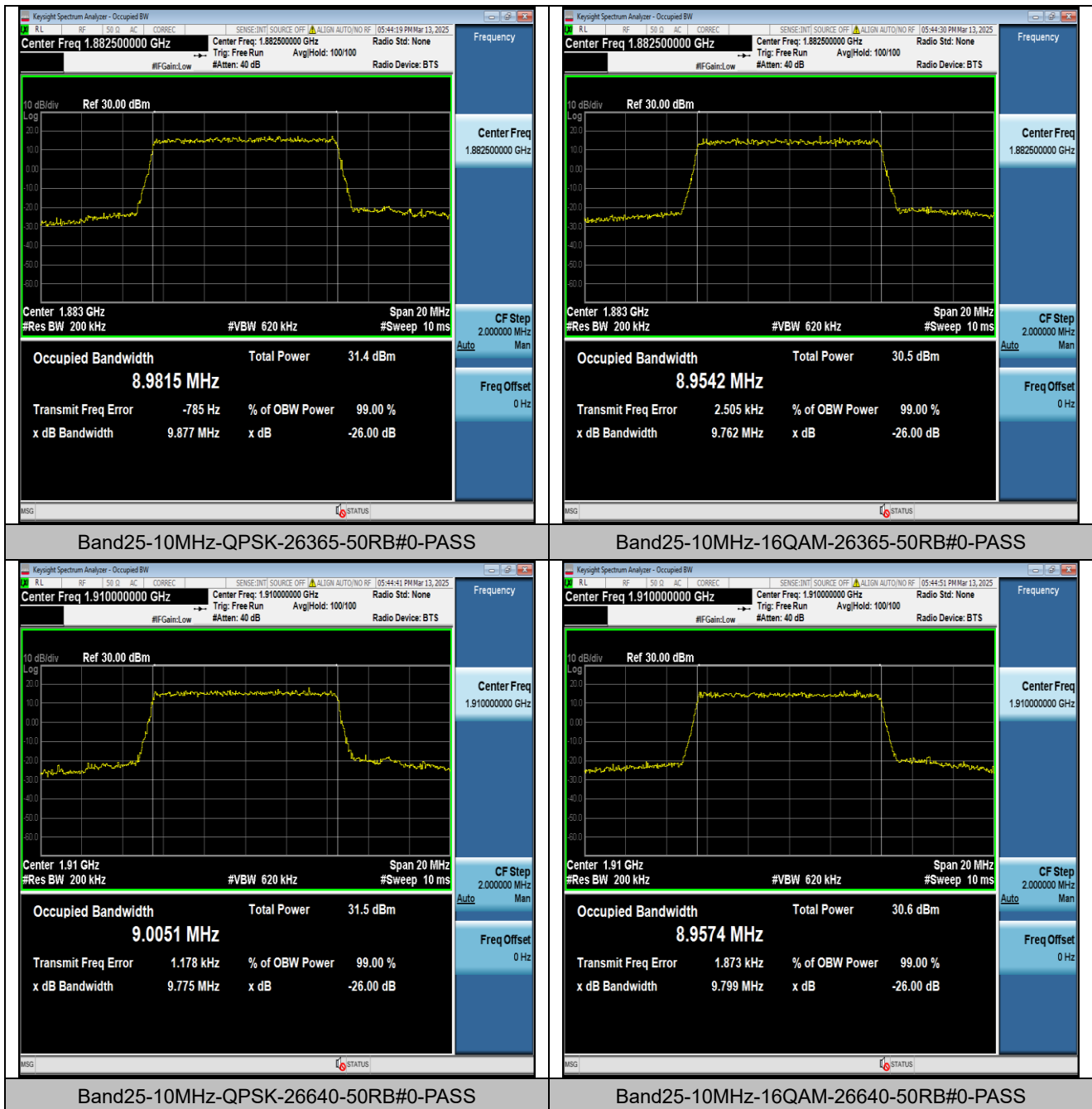


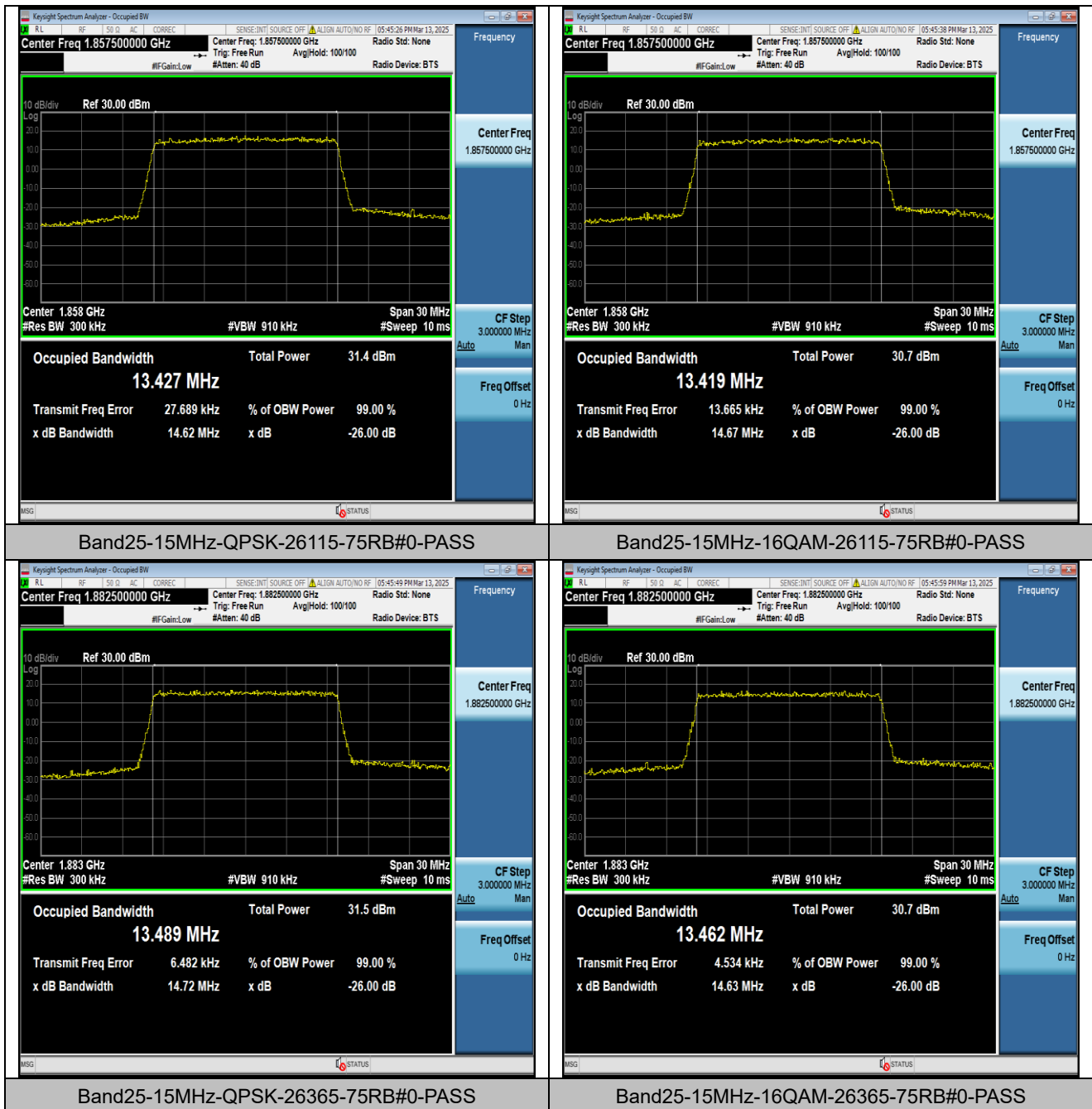


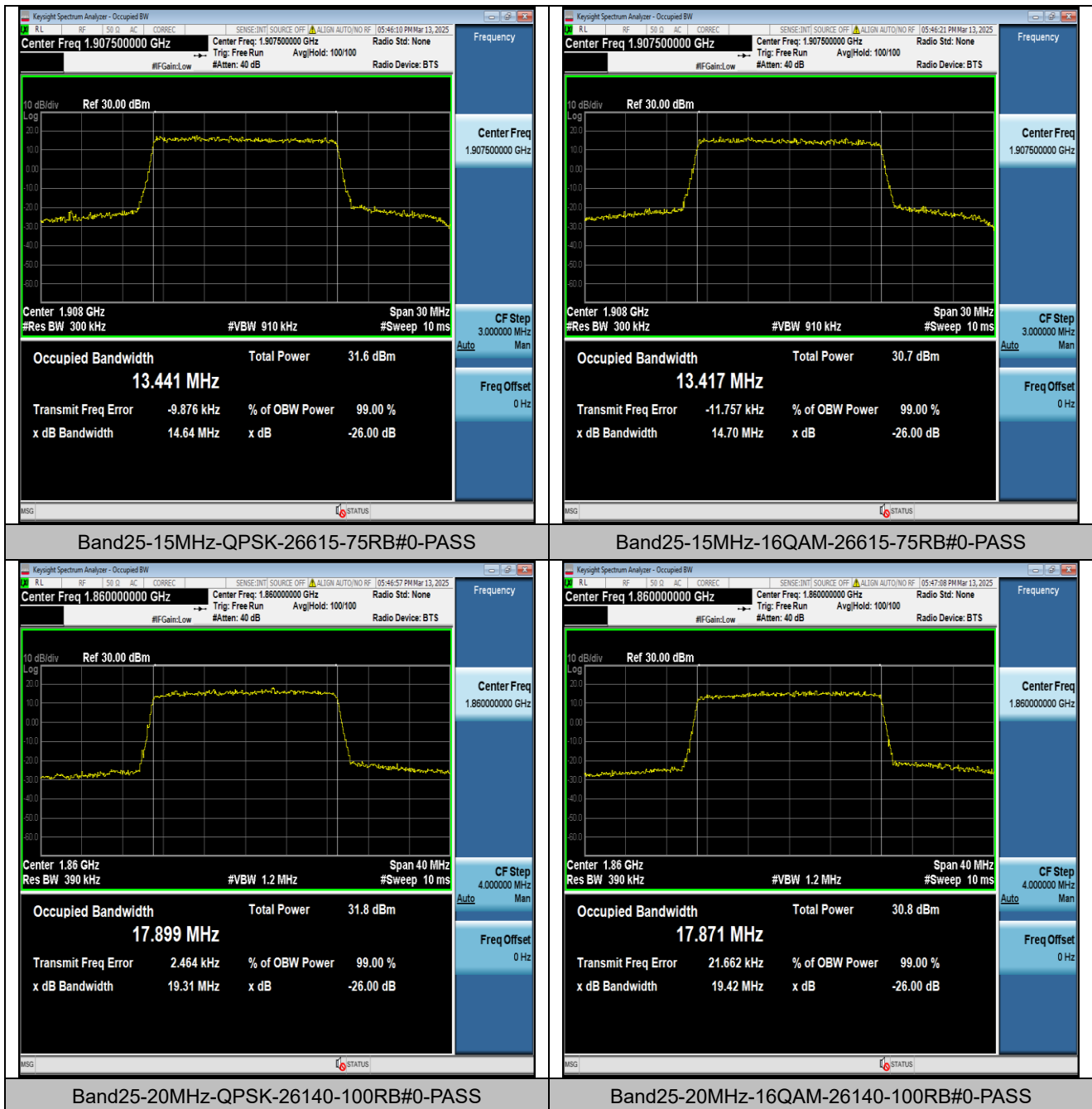


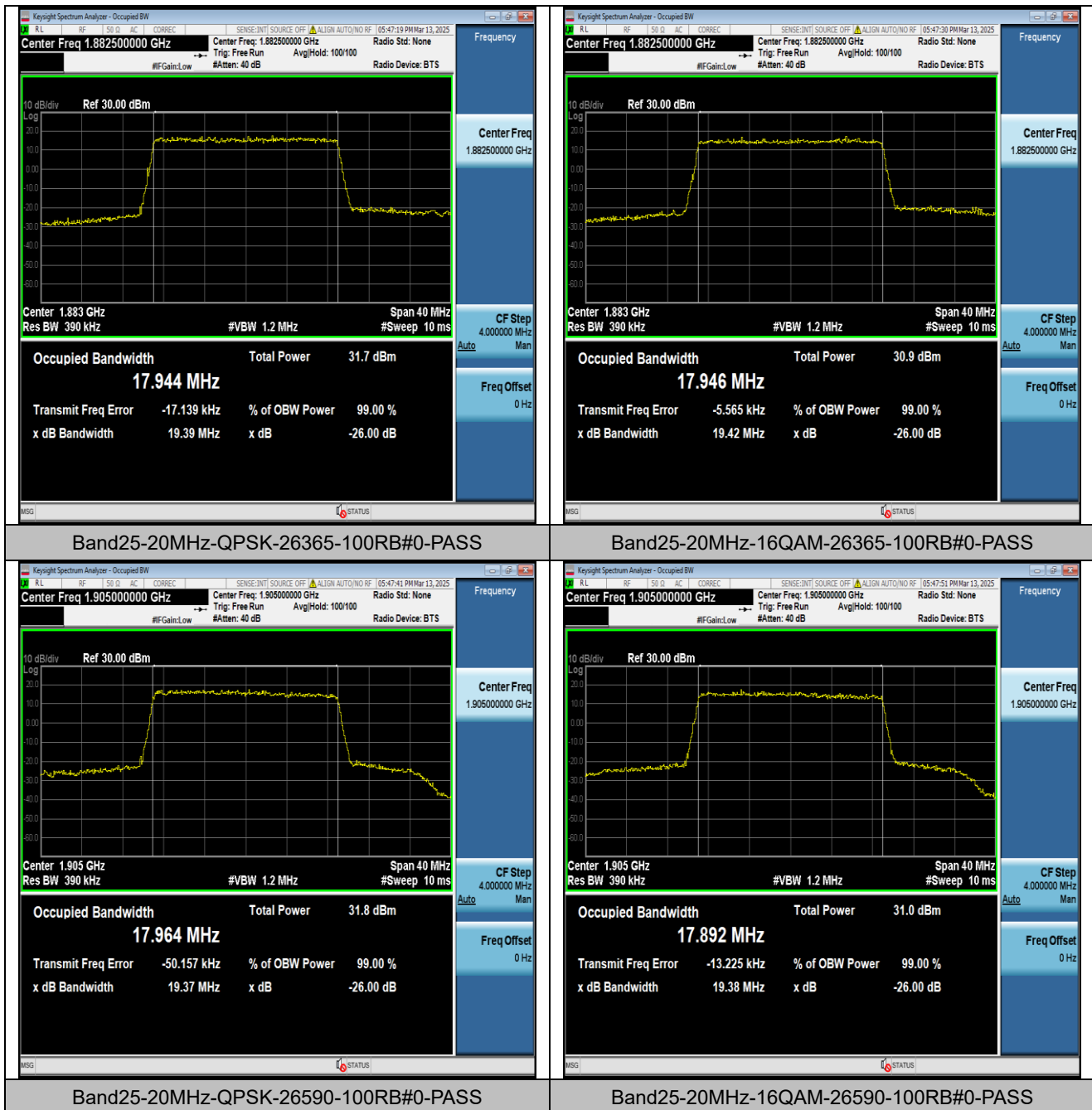






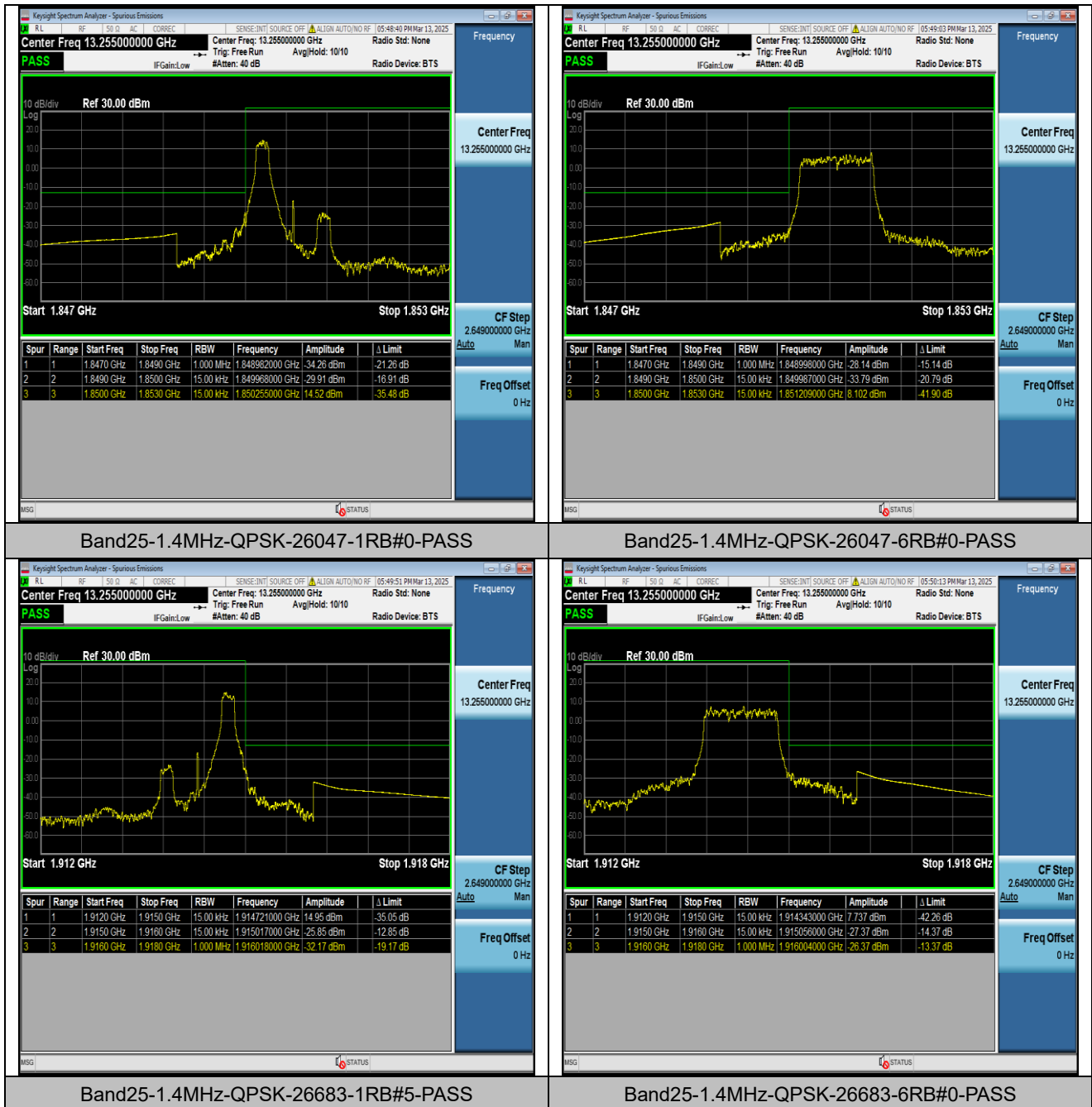


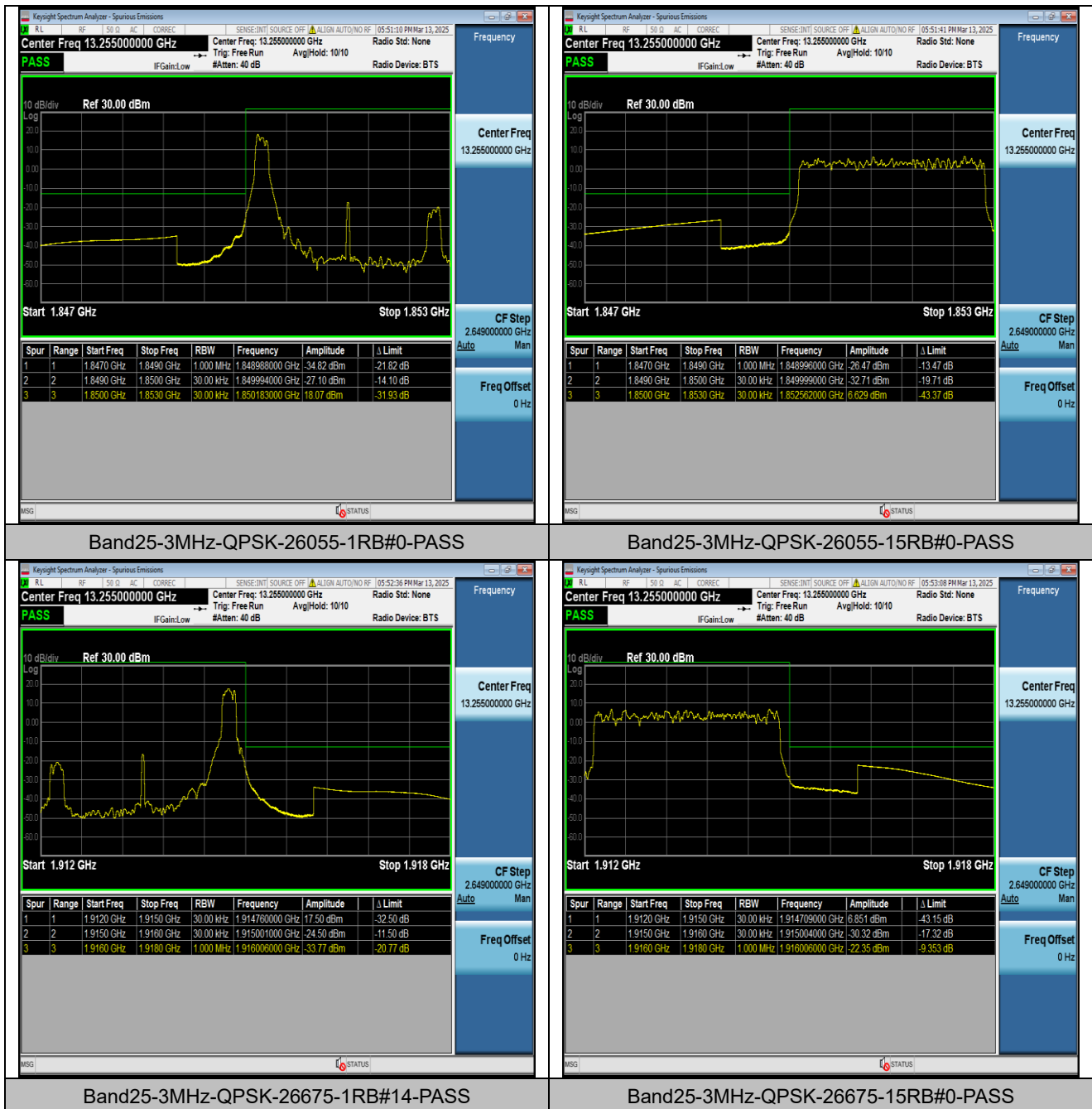


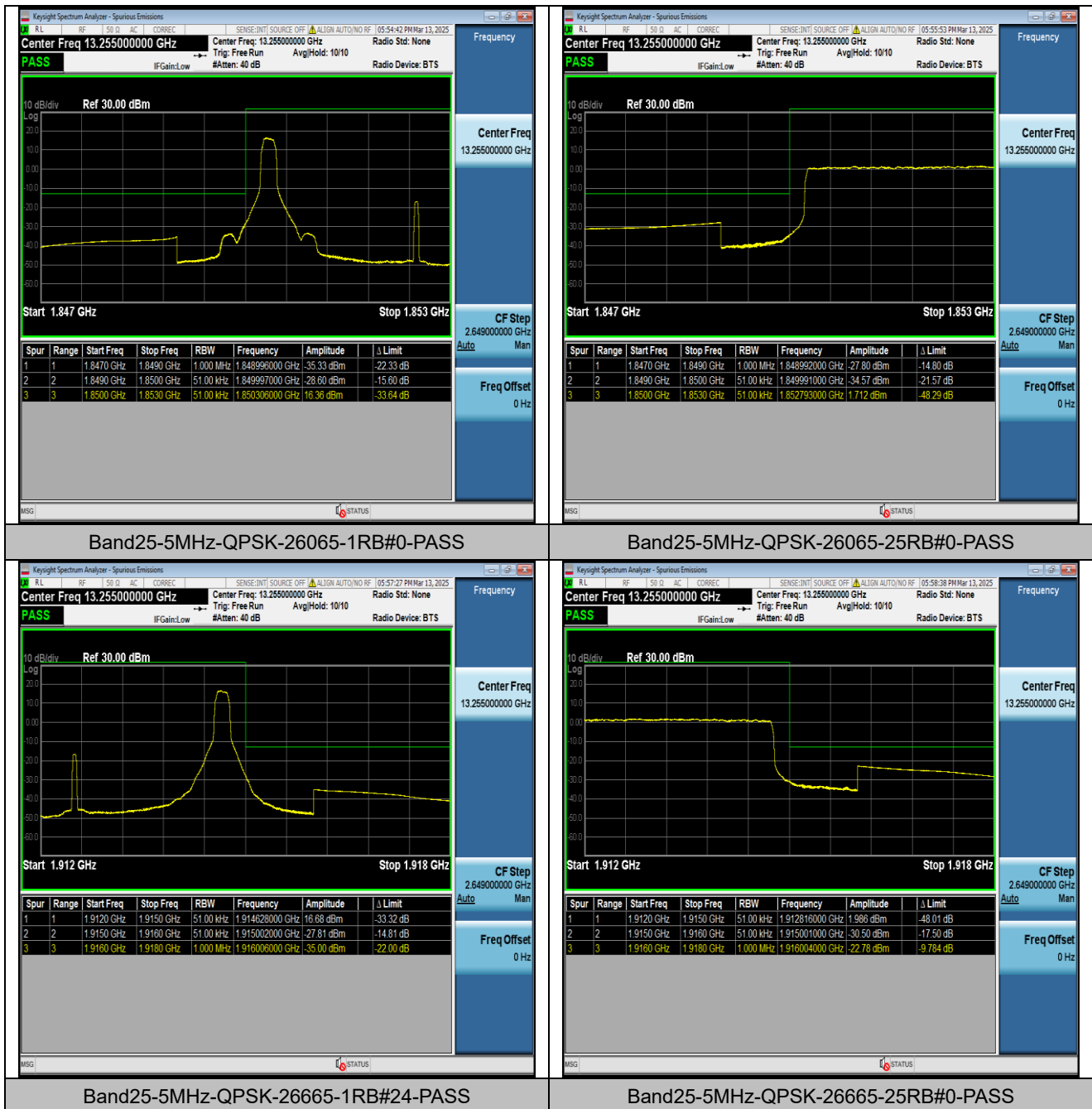


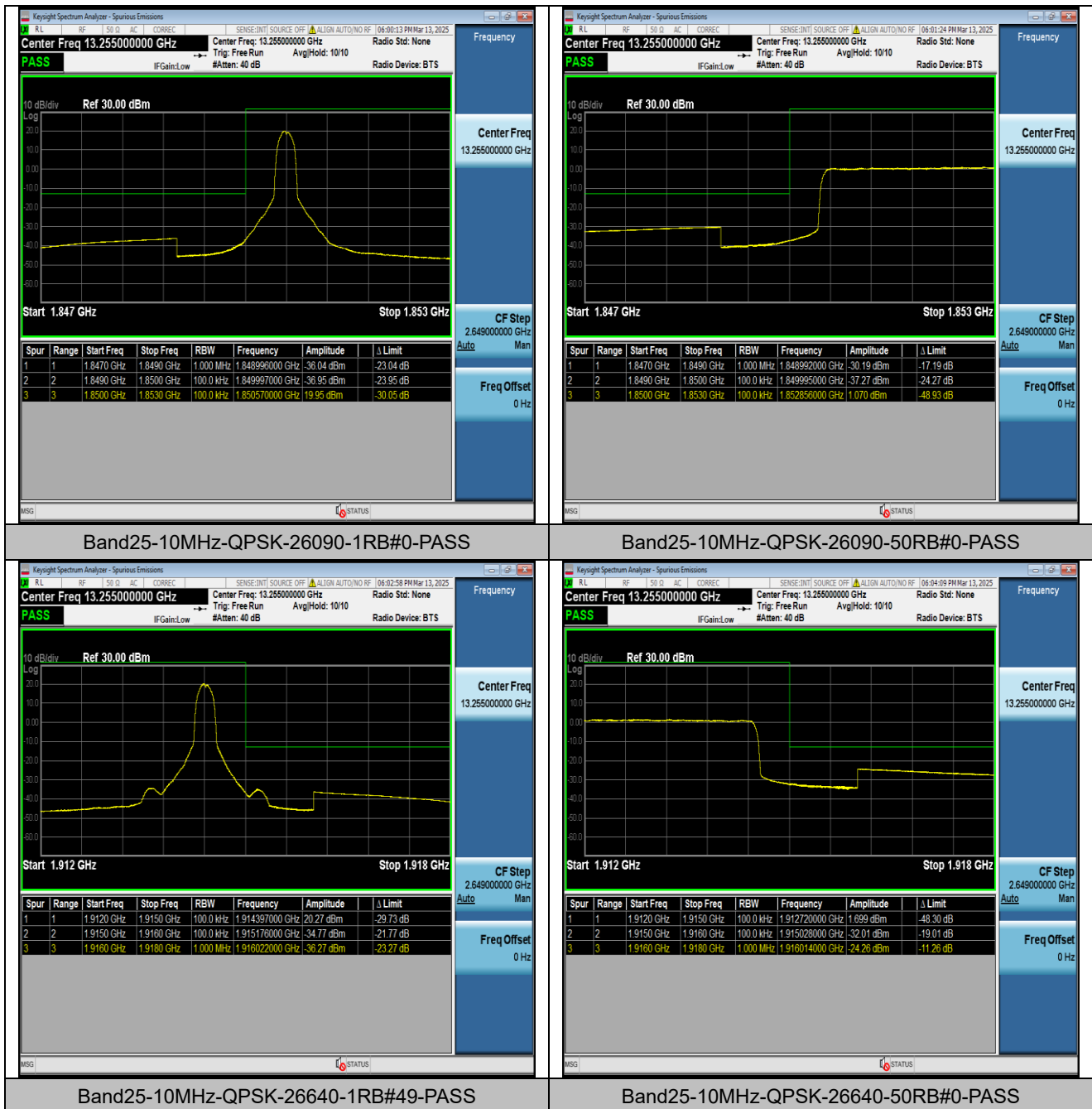
Band Edge

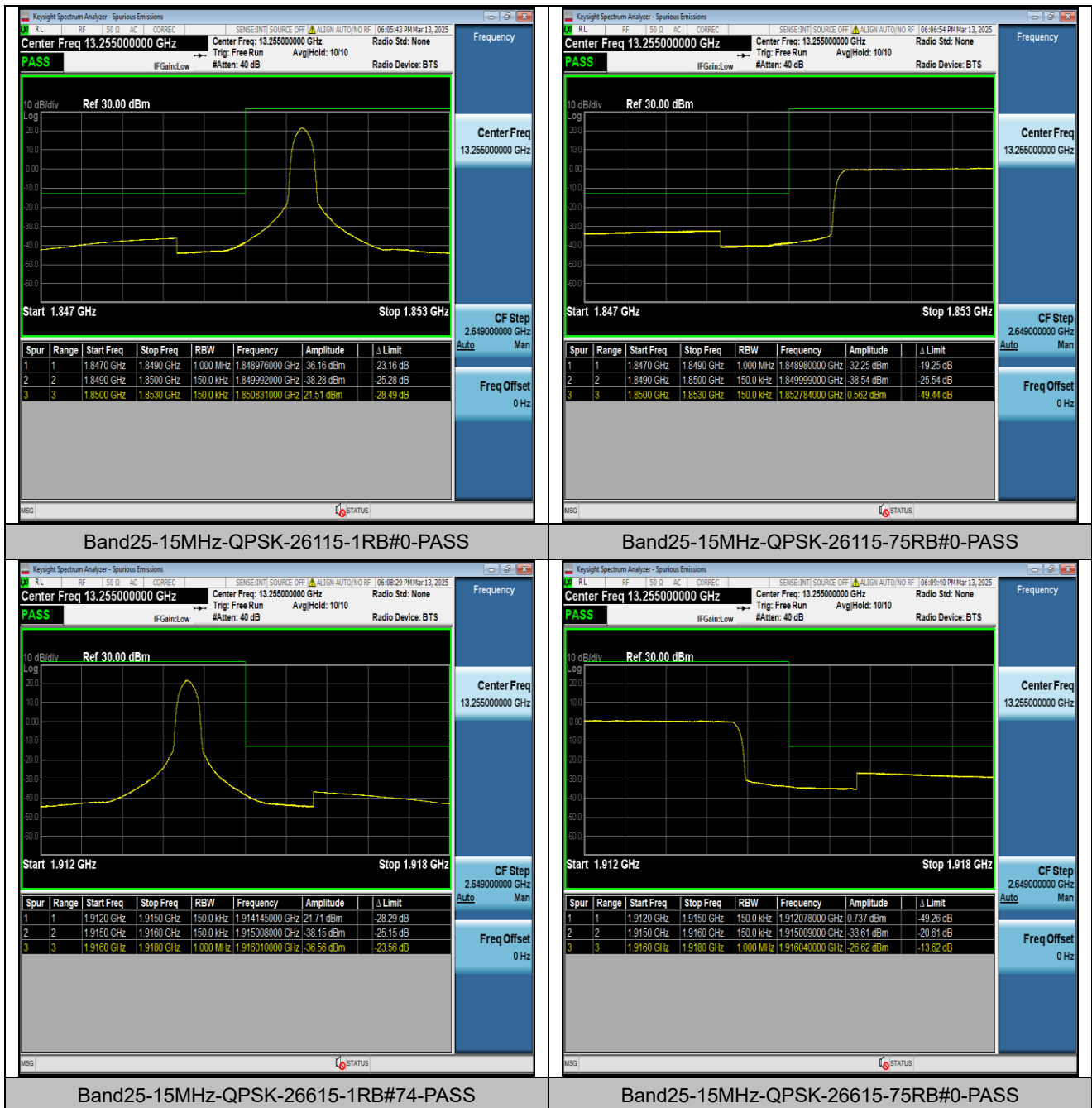
Test Graphs

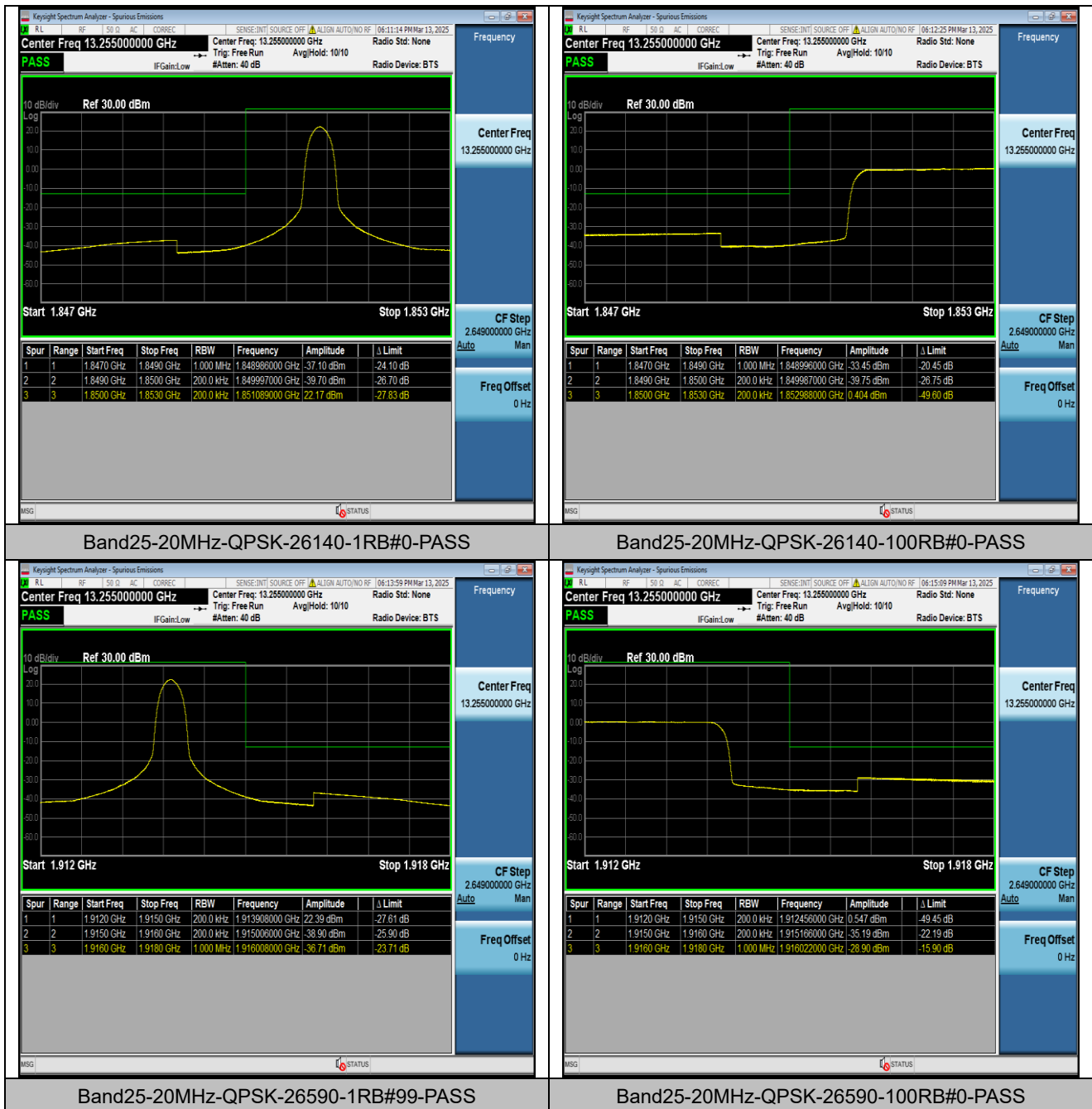






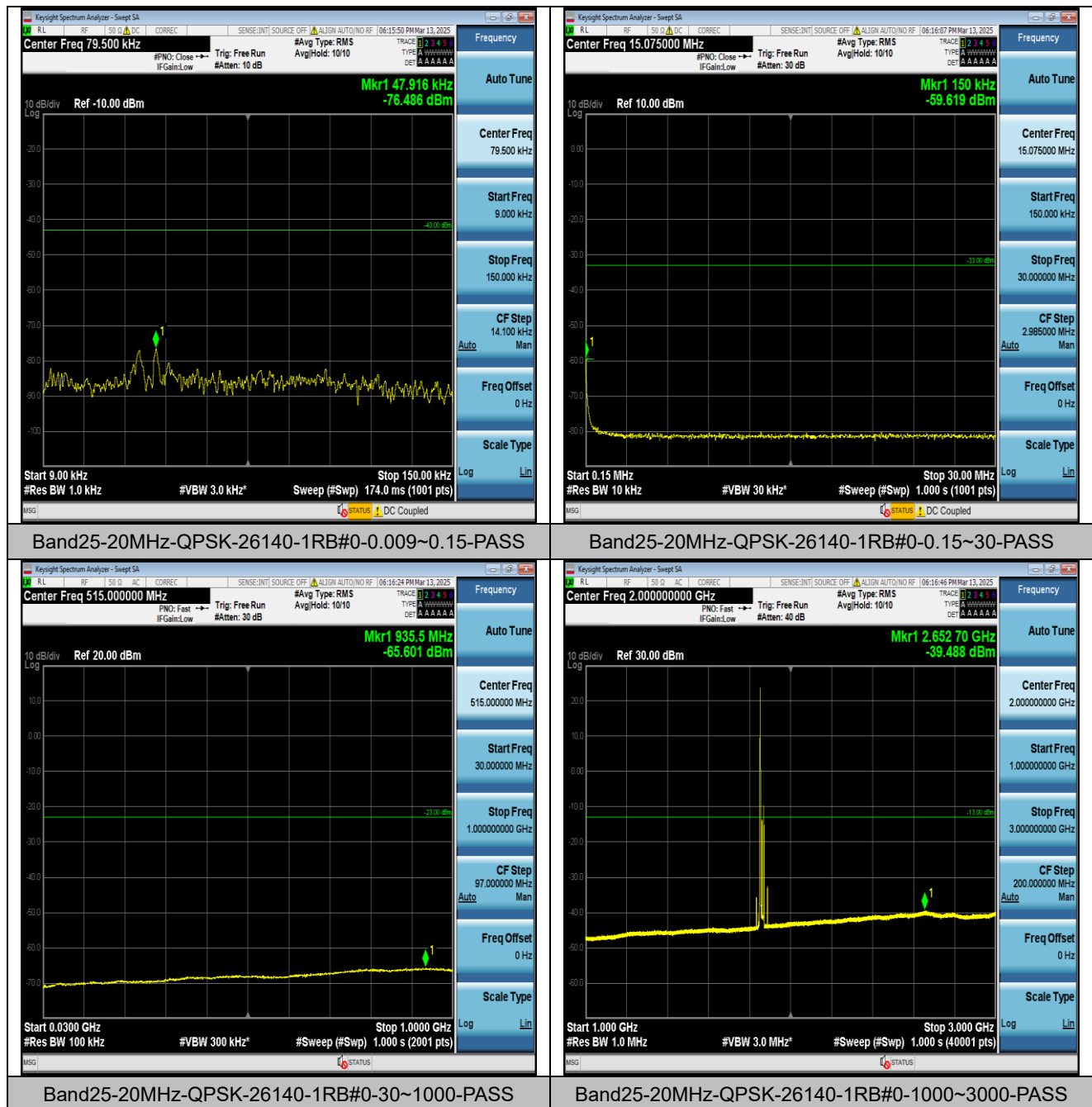


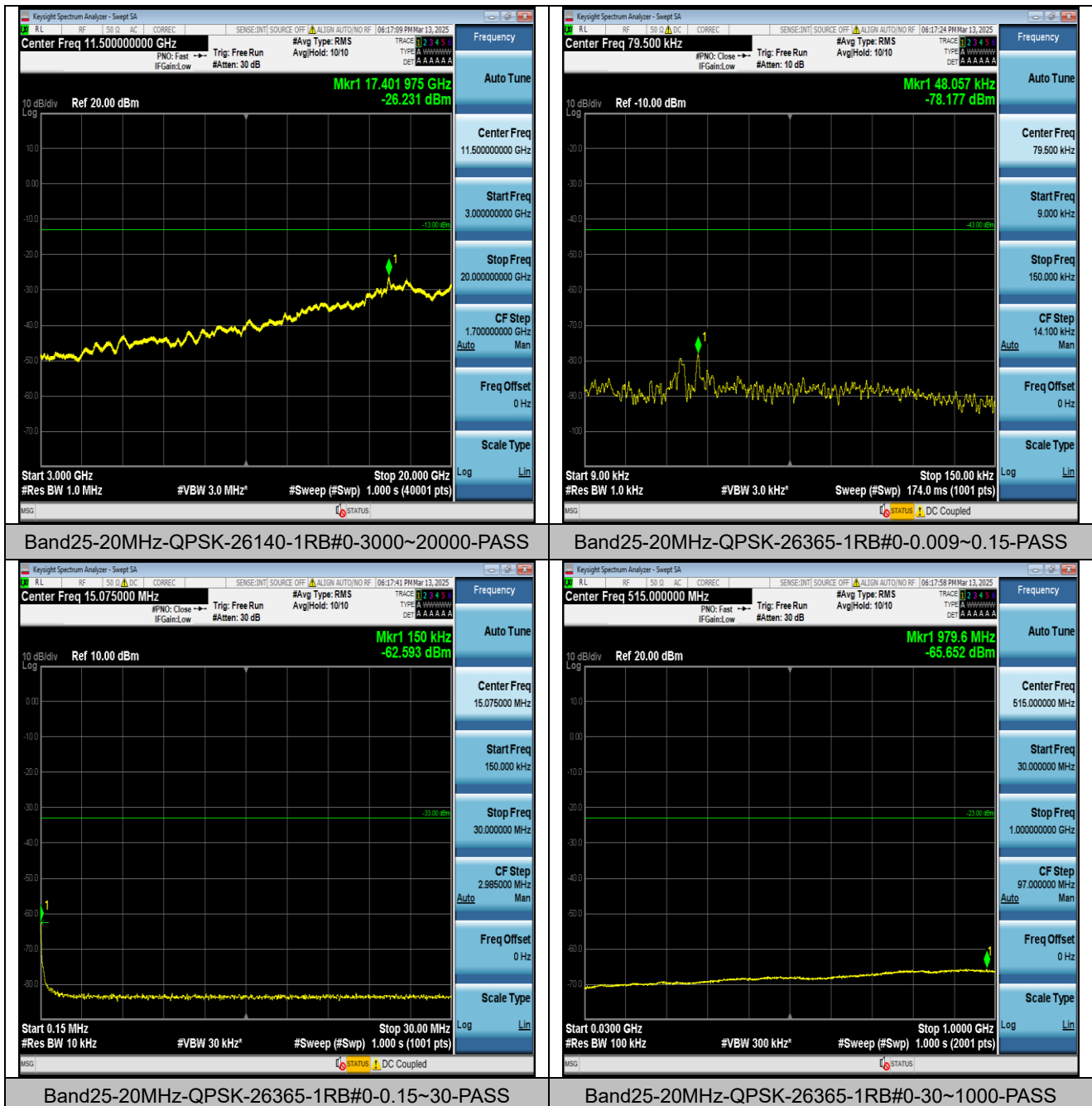




Conducted Spurious Emission

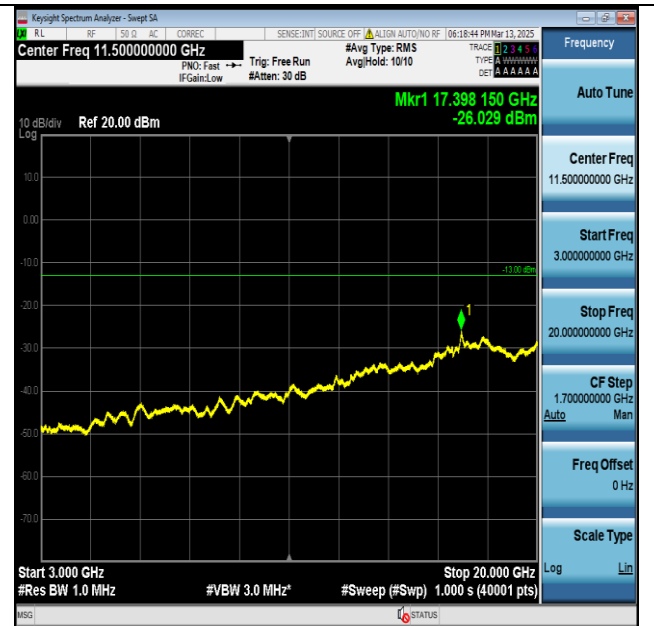
Test Graphs



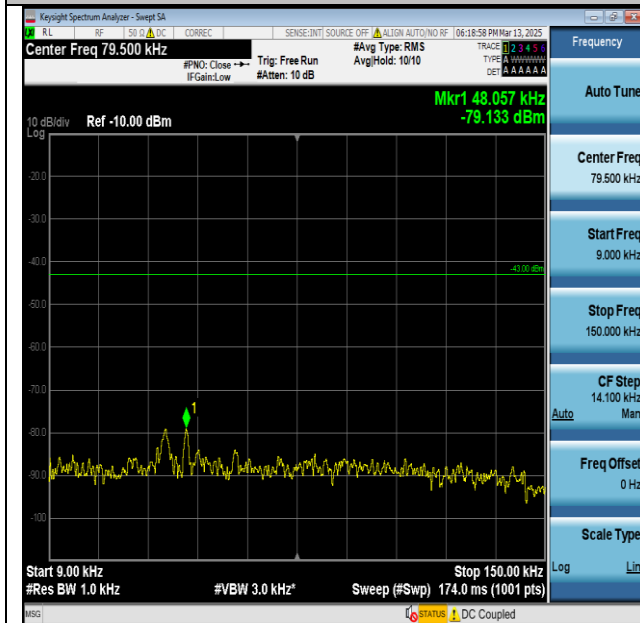




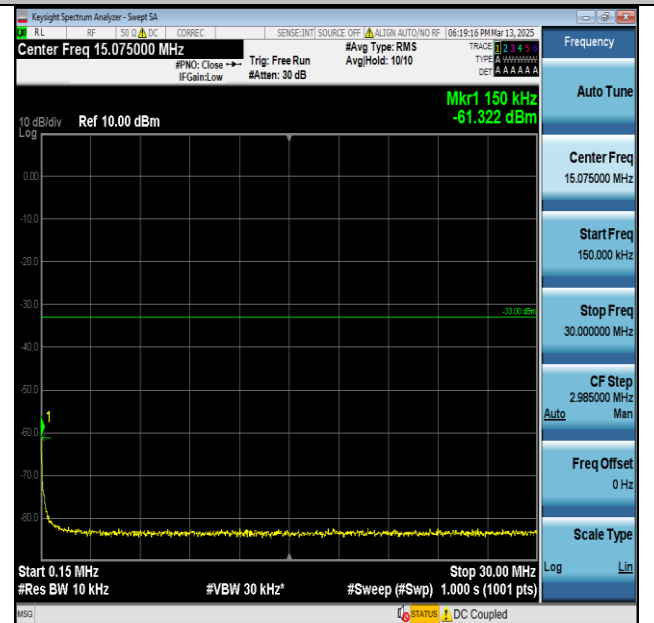
Band25-20MHz-QPSK-26365-1RB#0-1000~3000-PASS



Band25-20MHz-QPSK-26365-1RB#0-3000~20000-PASS



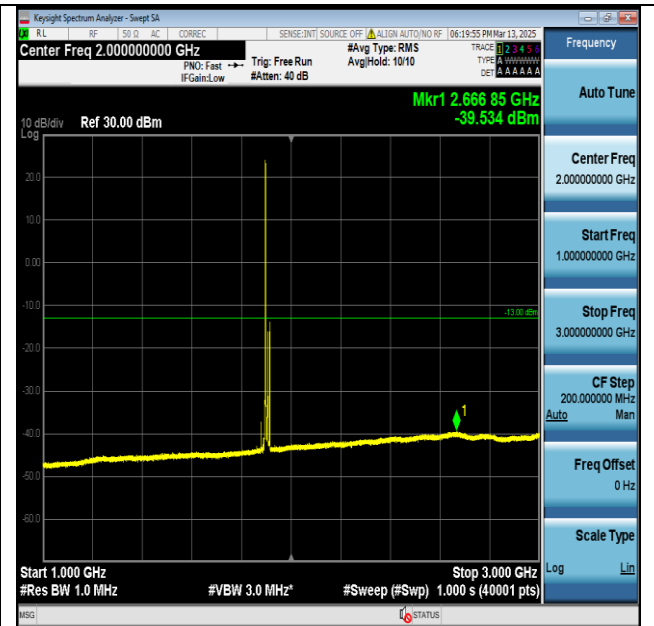
Band25-20MHz-QPSK-26590-1RB#0-0.009~0.15-PASS



Band25-20MHz-QPSK-26590-1RB#0-0.15~30-PASS



Band25-20MHz-QPSK-26590-1RB#0-30~1000-PASS



Band25-20MHz-QPSK-26590-1RB#0-1000~3000-PASS



Band25-20MHz-QPSK-26590-1RB#0-3000~20000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	20MHz	QPSK	26365	100RB#0	VN	NT	0.40	0.000212	PASS
Band25	20MHz	QPSK	26365	100RB#0	VL	NT	1.00	0.000531	PASS
Band25	20MHz	QPSK	26365	100RB#0	VH	NT	1.40	0.000744	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	20MHz	QPSK	26365	100RB#0	NV	-30	0.00	0.000000	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-20	0.40	0.000212	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-10	0.70	0.000372	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	0	1.20	0.000637	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	10	-0.10	-0.000053	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	20	3.30	0.001753	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	30	0.70	0.000372	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	40	1.00	0.000531	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	50	0.90	0.000478	PASS

~The End~