

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	23.21	25.01	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#2	23.24	25.04	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#5	23.46	25.26	33	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	22.72	24.52	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	22.86	24.66	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#2	22.64	24.44	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#5	22.8	24.6	33	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	21.66	23.46	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	23.4	25.2	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#2	23.57	25.37	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#5	23.21	25.01	33	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	22.77	24.57	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#0	22.95	24.75	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#2	22.65	24.45	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#5	22.83	24.63	33	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	21.71	23.51	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	23.14	24.94	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#2	23.25	25.05	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	23.15	24.95	33	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	22.63	24.43	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	22.49	24.29	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#2	22.41	24.21	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#5	22.39	24.19	33	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	21.5	23.3	33	PASS
Band25	3MHz	QPSK	26055	1RB#0	23.11	24.91	33	PASS
Band25	3MHz	QPSK	26055	1RB#8	23.49	25.29	33	PASS
Band25	3MHz	QPSK	26055	1RB#14	23.34	25.14	33	PASS
Band25	3MHz	QPSK	26055	15RB#0	22.82	24.62	33	PASS
Band25	3MHz	16QAM	26055	1RB#0	22.63	24.43	33	PASS
Band25	3MHz	16QAM	26055	1RB#8	22.65	24.45	33	PASS
Band25	3MHz	16QAM	26055	1RB#14	22.87	24.67	33	PASS
Band25	3MHz	16QAM	26055	15RB#0	21.82	23.62	33	PASS
Band25	3MHz	QPSK	26365	1RB#0	23.27	25.07	33	PASS
Band25	3MHz	QPSK	26365	1RB#8	23.28	25.08	33	PASS
Band25	3MHz	QPSK	26365	1RB#14	23.31	25.11	33	PASS
Band25	3MHz	QPSK	26365	15RB#0	22.86	24.66	33	PASS
Band25	3MHz	16QAM	26365	1RB#0	22.85	24.65	33	PASS

Band25	3MHz	16QAM	26365	1RB#8	22.67	24.47	33	PASS
Band25	3MHz	16QAM	26365	1RB#14	22.53	24.33	33	PASS
Band25	3MHz	16QAM	26365	15RB#0	21.74	23.54	33	PASS
Band25	3MHz	QPSK	26675	1RB#0	23.22	25.02	33	PASS
Band25	3MHz	QPSK	26675	1RB#8	23.24	25.04	33	PASS
Band25	3MHz	QPSK	26675	1RB#14	23.19	24.99	33	PASS
Band25	3MHz	QPSK	26675	15RB#0	22.76	24.56	33	PASS
Band25	3MHz	16QAM	26675	1RB#0	22.64	24.44	33	PASS
Band25	3MHz	16QAM	26675	1RB#8	22.43	24.23	33	PASS
Band25	3MHz	16QAM	26675	1RB#14	22.55	24.35	33	PASS
Band25	3MHz	16QAM	26675	15RB#0	21.6	23.4	33	PASS
Band25	5MHz	QPSK	26065	1RB#0	23.19	24.99	33	PASS
Band25	5MHz	QPSK	26065	1RB#12	23.41	25.21	33	PASS
Band25	5MHz	QPSK	26065	1RB#24	23.39	25.19	33	PASS
Band25	5MHz	QPSK	26065	25RB#0	22.87	24.67	33	PASS
Band25	5MHz	16QAM	26065	1RB#0	22.56	24.36	33	PASS
Band25	5MHz	16QAM	26065	1RB#12	22.67	24.47	33	PASS
Band25	5MHz	16QAM	26065	1RB#24	22.55	24.35	33	PASS
Band25	5MHz	16QAM	26065	25RB#0	21.78	23.58	33	PASS
Band25	5MHz	QPSK	26365	1RB#0	23.33	25.13	33	PASS
Band25	5MHz	QPSK	26365	1RB#12	23.61	25.41	33	PASS
Band25	5MHz	QPSK	26365	1RB#24	23.38	25.18	33	PASS
Band25	5MHz	QPSK	26365	25RB#0	22.88	24.68	33	PASS
Band25	5MHz	16QAM	26365	1RB#0	22.7	24.5	33	PASS
Band25	5MHz	16QAM	26365	1RB#12	22.78	24.58	33	PASS
Band25	5MHz	16QAM	26365	1RB#24	22.68	24.48	33	PASS
Band25	5MHz	16QAM	26365	25RB#0	21.74	23.54	33	PASS
Band25	5MHz	QPSK	26665	1RB#0	23.05	24.85	33	PASS
Band25	5MHz	QPSK	26665	1RB#12	23.32	25.12	33	PASS
Band25	5MHz	QPSK	26665	1RB#24	23.09	24.89	33	PASS
Band25	5MHz	QPSK	26665	25RB#0	22.56	24.36	33	PASS
Band25	5MHz	16QAM	26665	1RB#0	22.43	24.23	33	PASS
Band25	5MHz	16QAM	26665	1RB#12	22.42	24.22	33	PASS
Band25	5MHz	16QAM	26665	1RB#24	22.55	24.35	33	PASS
Band25	5MHz	16QAM	26665	25RB#0	21.47	23.27	33	PASS
Band25	10MHz	QPSK	26090	1RB#0	23.36	25.16	33	PASS
Band25	10MHz	QPSK	26090	1RB#24	23.4	25.2	33	PASS
Band25	10MHz	QPSK	26090	1RB#49	23.49	25.29	33	PASS
Band25	10MHz	QPSK	26090	50RB#0	22.71	24.51	33	PASS
Band25	10MHz	16QAM	26090	1RB#0	22.59	24.39	33	PASS
Band25	10MHz	16QAM	26090	1RB#24	22.73	24.53	33	PASS
Band25	10MHz	16QAM	26090	1RB#49	22.85	24.65	33	PASS
Band25	10MHz	16QAM	26090	50RB#0	21.96	23.76	33	PASS
Band25	10MHz	QPSK	26365	1RB#0	23.52	25.32	33	PASS
Band25	10MHz	QPSK	26365	1RB#24	23.78	25.58	33	PASS

Band25	10MHz	QPSK	26365	1RB#49	23.29	25.09	33	PASS
Band25	10MHz	QPSK	26365	50RB#0	22.59	24.39	33	PASS
Band25	10MHz	16QAM	26365	1RB#0	22.86	24.66	33	PASS
Band25	10MHz	16QAM	26365	1RB#24	22.72	24.52	33	PASS
Band25	10MHz	16QAM	26365	1RB#49	22.69	24.49	33	PASS
Band25	10MHz	16QAM	26365	50RB#0	21.84	23.64	33	PASS
Band25	10MHz	QPSK	26640	1RB#0	23.43	25.23	33	PASS
Band25	10MHz	QPSK	26640	1RB#24	23.47	25.27	33	PASS
Band25	10MHz	QPSK	26640	1RB#49	23.34	25.14	33	PASS
Band25	10MHz	QPSK	26640	50RB#0	22.68	24.48	33	PASS
Band25	10MHz	16QAM	26640	1RB#0	22.67	24.47	33	PASS
Band25	10MHz	16QAM	26640	1RB#24	22.77	24.57	33	PASS
Band25	10MHz	16QAM	26640	1RB#49	22.78	24.58	33	PASS
Band25	10MHz	16QAM	26640	50RB#0	21.62	23.42	33	PASS
Band25	15MHz	QPSK	26115	1RB#0	23.13	24.93	33	PASS
Band25	15MHz	QPSK	26115	1RB#38	23.3	25.1	33	PASS
Band25	15MHz	QPSK	26115	1RB#74	23.27	25.07	33	PASS
Band25	15MHz	QPSK	26115	75RB#0	22.74	24.54	33	PASS
Band25	15MHz	16QAM	26115	1RB#0	22.82	24.62	33	PASS
Band25	15MHz	16QAM	26115	1RB#38	22.47	24.27	33	PASS
Band25	15MHz	16QAM	26115	1RB#74	22.68	24.48	33	PASS
Band25	15MHz	16QAM	26115	75RB#0	21.9	23.7	33	PASS
Band25	15MHz	QPSK	26365	1RB#0	23.44	25.24	33	PASS
Band25	15MHz	QPSK	26365	1RB#38	23.3	25.1	33	PASS
Band25	15MHz	QPSK	26365	1RB#74	23.12	24.92	33	PASS
Band25	15MHz	QPSK	26365	75RB#0	22.81	24.61	33	PASS
Band25	15MHz	16QAM	26365	1RB#0	22.82	24.62	33	PASS
Band25	15MHz	16QAM	26365	1RB#38	22.5	24.3	33	PASS
Band25	15MHz	16QAM	26365	1RB#74	22.52	24.32	33	PASS
Band25	15MHz	16QAM	26365	75RB#0	21.71	23.51	33	PASS
Band25	15MHz	QPSK	26615	1RB#0	23.28	25.08	33	PASS
Band25	15MHz	QPSK	26615	1RB#38	23.43	25.23	33	PASS
Band25	15MHz	QPSK	26615	1RB#74	23.35	25.15	33	PASS
Band25	15MHz	QPSK	26615	75RB#0	22.73	24.53	33	PASS
Band25	15MHz	16QAM	26615	1RB#0	22.46	24.26	33	PASS
Band25	15MHz	16QAM	26615	1RB#38	22.5	24.3	33	PASS
Band25	15MHz	16QAM	26615	1RB#74	22.58	24.38	33	PASS
Band25	15MHz	16QAM	26615	75RB#0	21.66	23.46	33	PASS
Band25	20MHz	QPSK	26140	1RB#0	23.44	25.24	33	PASS
Band25	20MHz	QPSK	26140	1RB#49	23.54	25.34	33	PASS
Band25	20MHz	QPSK	26140	1RB#99	23.2	25	33	PASS
Band25	20MHz	QPSK	26140	100RB#0	22.81	24.61	33	PASS
Band25	20MHz	16QAM	26140	1RB#0	22.35	24.15	33	PASS
Band25	20MHz	16QAM	26140	1RB#49	22.54	24.34	33	PASS
Band25	20MHz	16QAM	26140	1RB#99	22.51	24.31	33	PASS

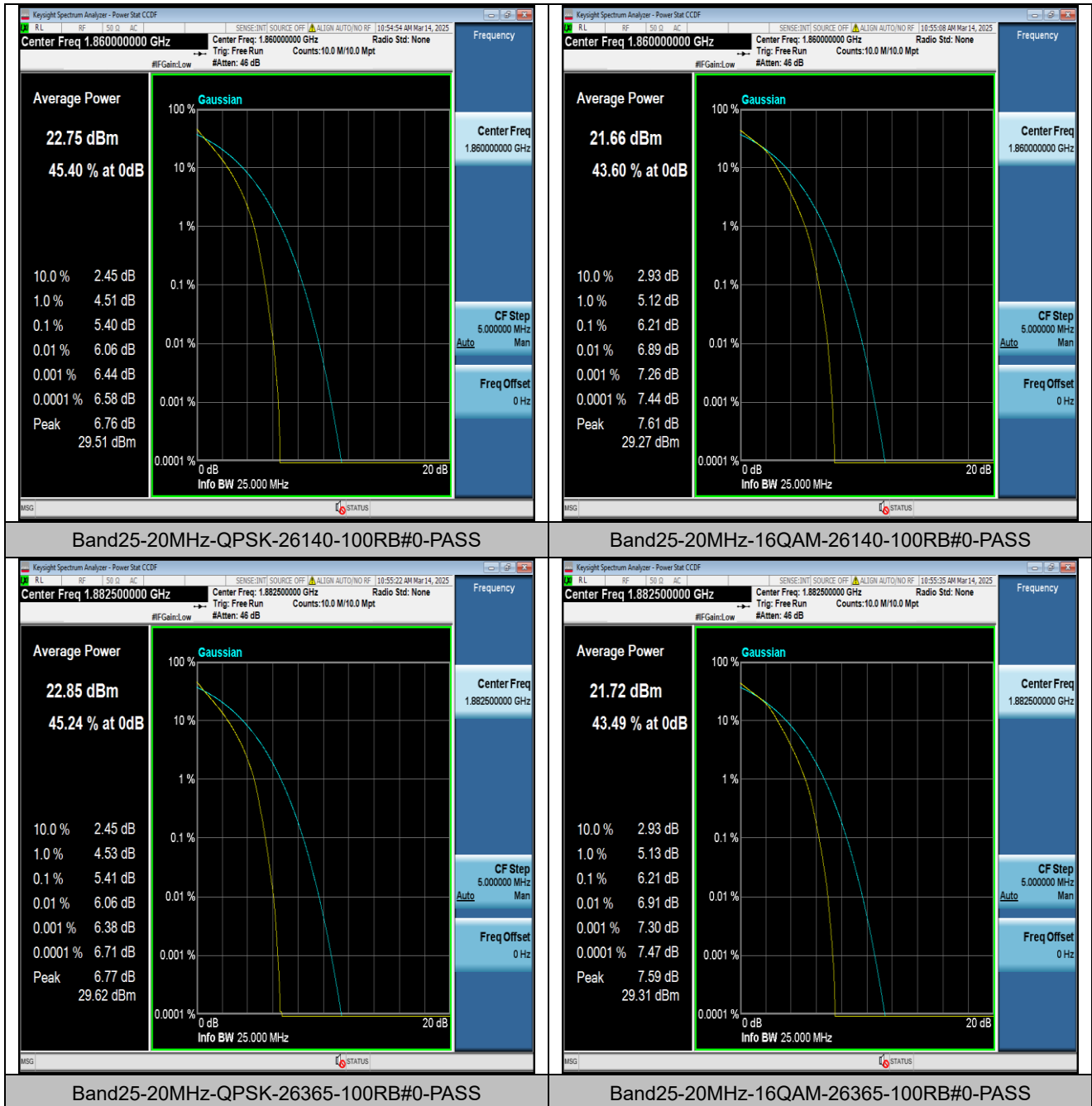
Band25	20MHz	16QAM	26140	100RB#0	21.79	23.59	33	PASS
Band25	20MHz	QPSK	26365	1RB#0	23.47	25.27	33	PASS
Band25	20MHz	QPSK	26365	1RB#49	23.83	25.63	33	PASS
Band25	20MHz	QPSK	26365	1RB#99	23.26	25.06	33	PASS
Band25	20MHz	QPSK	26365	100RB#0	22.81	24.61	33	PASS
Band25	20MHz	16QAM	26365	1RB#0	22.52	24.32	33	PASS
Band25	20MHz	16QAM	26365	1RB#49	22.62	24.42	33	PASS
Band25	20MHz	16QAM	26365	1RB#99	22.51	24.31	33	PASS
Band25	20MHz	16QAM	26365	100RB#0	21.83	23.63	33	PASS
Band25	20MHz	QPSK	26590	1RB#0	23.29	25.09	33	PASS
Band25	20MHz	QPSK	26590	1RB#49	23.66	25.46	33	PASS
Band25	20MHz	QPSK	26590	1RB#99	23.26	25.06	33	PASS
Band25	20MHz	QPSK	26590	100RB#0	22.71	24.51	33	PASS
Band25	20MHz	16QAM	26590	1RB#0	22.64	24.44	33	PASS
Band25	20MHz	16QAM	26590	1RB#49	22.54	24.34	33	PASS
Band25	20MHz	16QAM	26590	1RB#99	22.31	24.11	33	PASS
Band25	20MHz	16QAM	26590	100RB#0	21.75	23.55	33	PASS

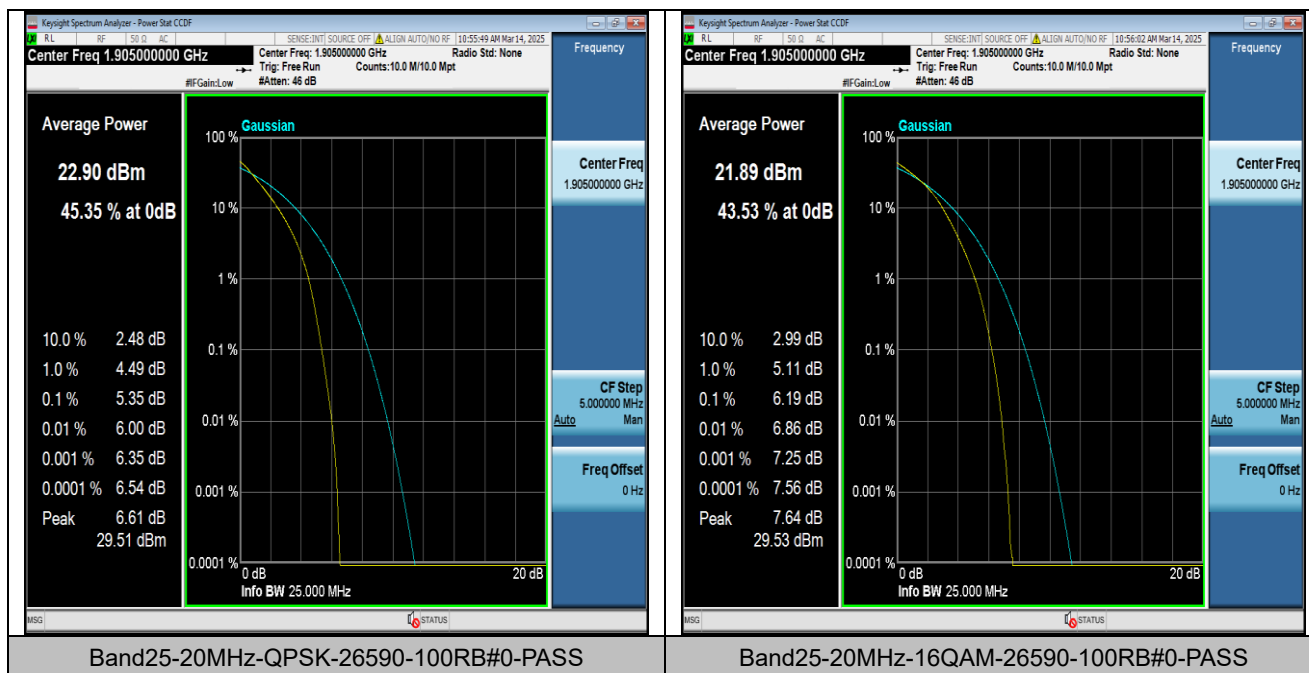
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	5.40	13	PASS
Band25	20MHz	16QAM	26140	100RB#0	6.21	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	5.41	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.21	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	5.35	13	PASS
Band25	20MHz	16QAM	26590	100RB#0	6.19	13	PASS

Test Graphs



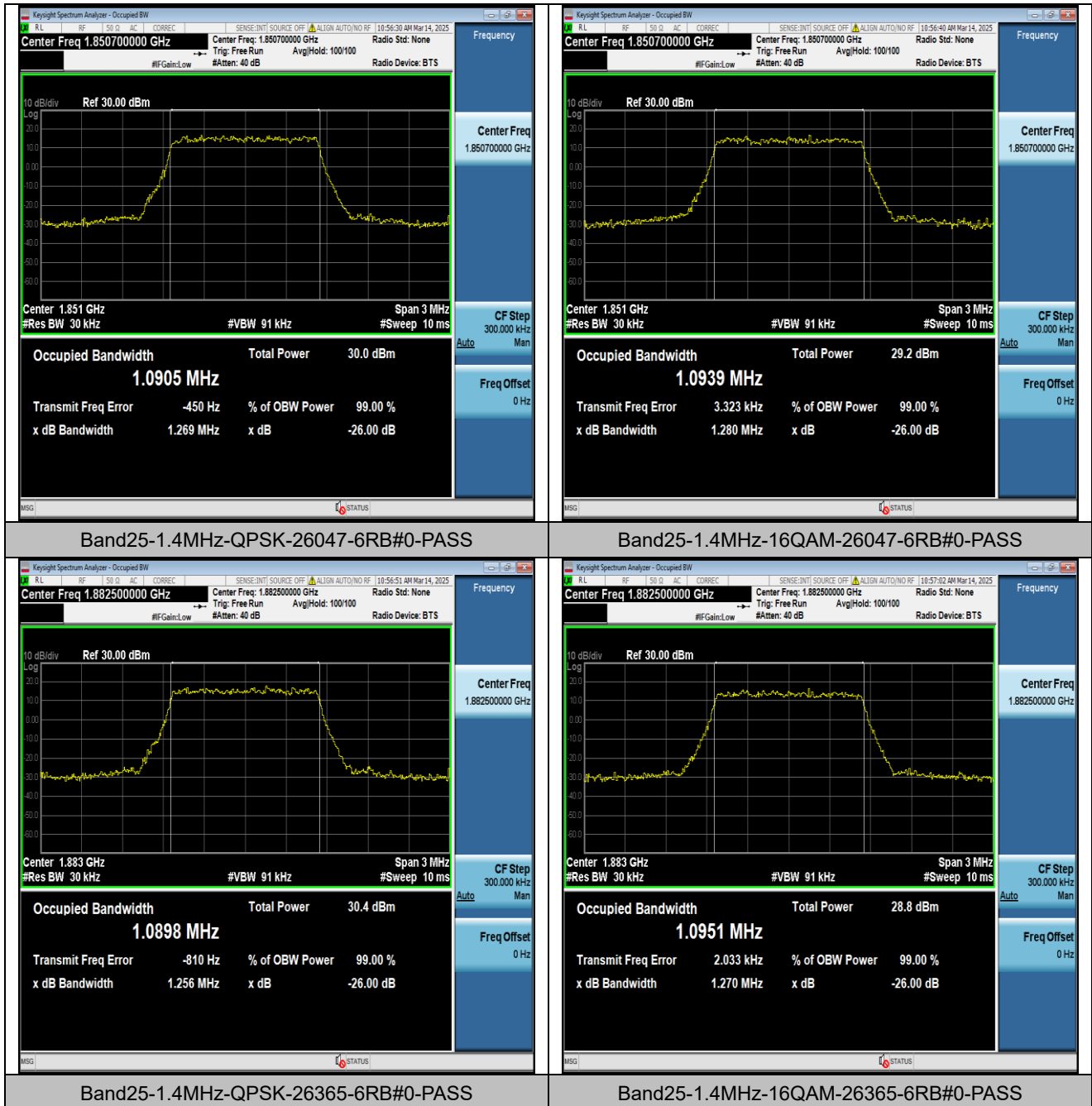


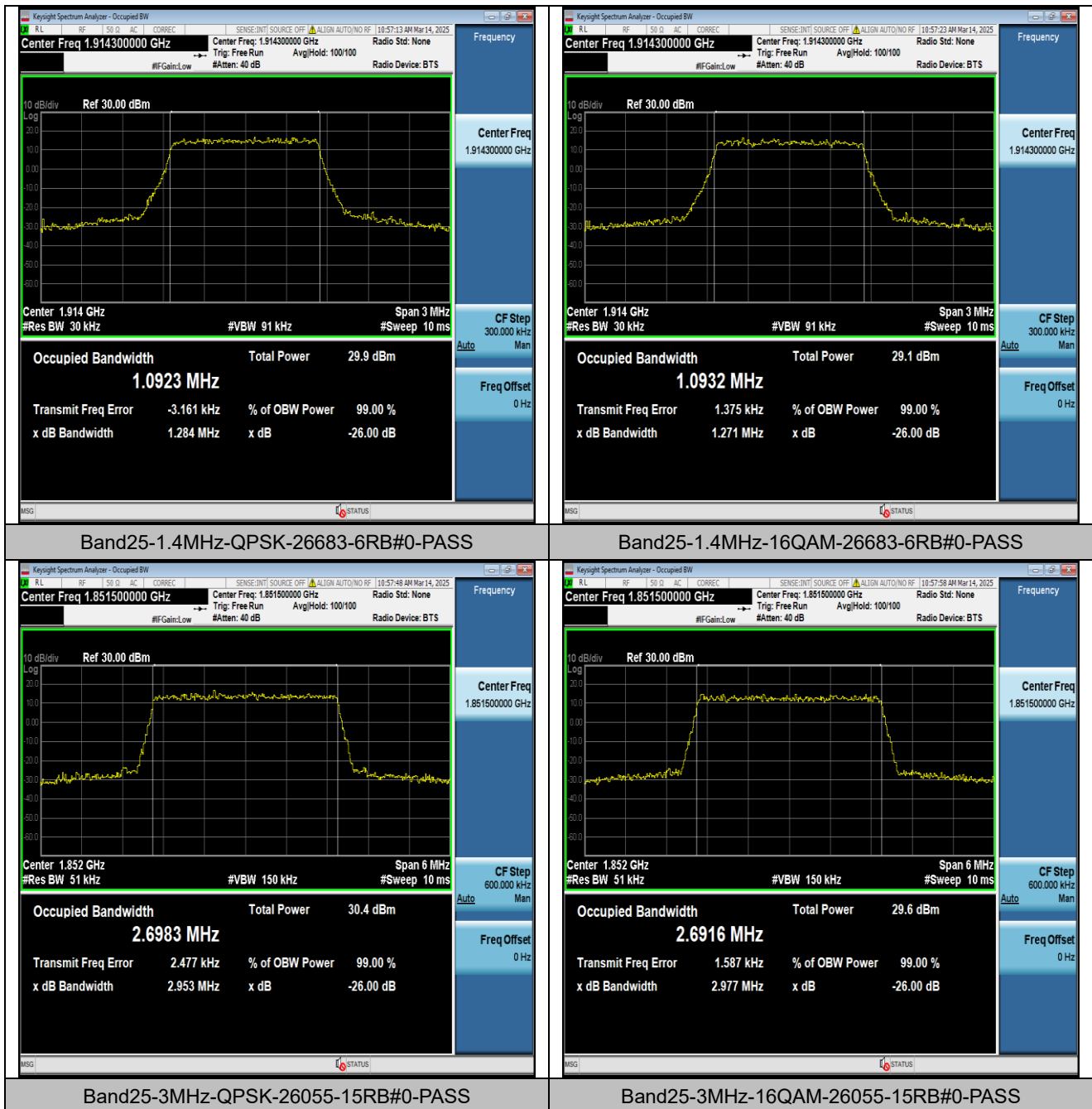
26dB Bandwidth and Occupied Bandwidth

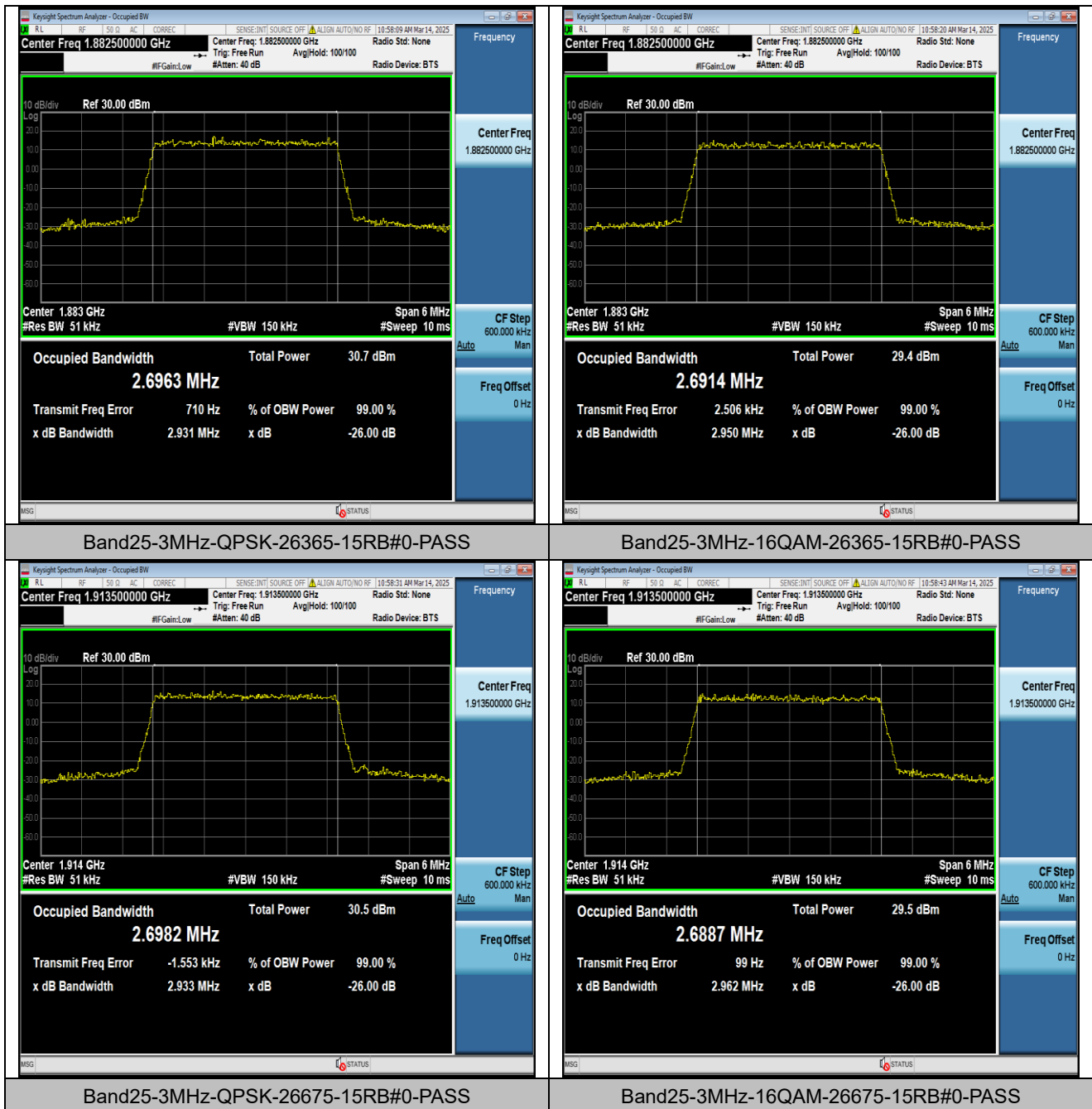
Test Result

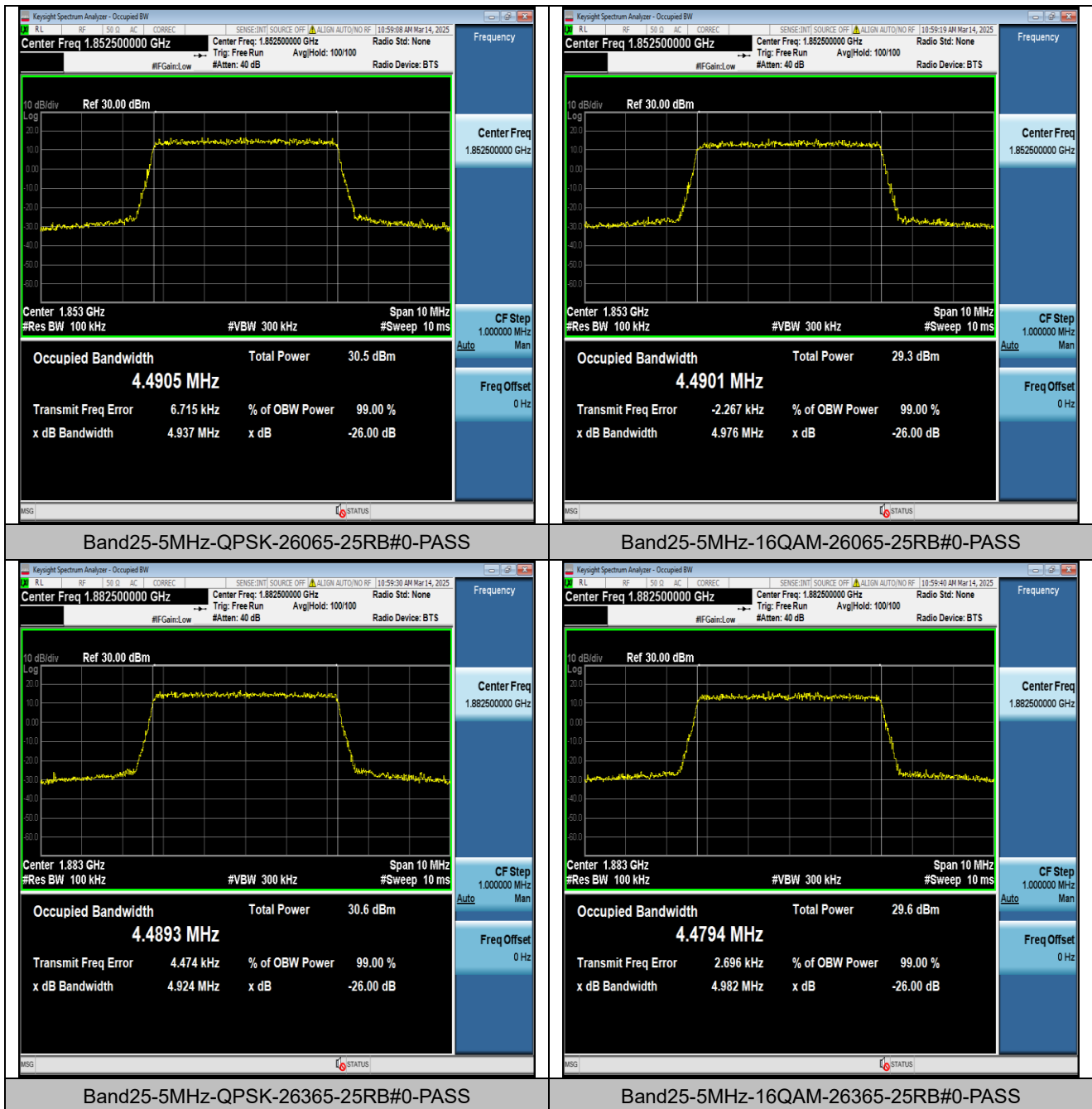
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band25	1.4MHz	QPSK	26047	6RB#0	1.0905	1.269	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	1.0939	1.280	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	1.0898	1.256	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	1.0951	1.270	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	1.0923	1.284	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	1.0932	1.271	PASS
Band25	3MHz	QPSK	26055	15RB#0	2.6983	2.953	PASS
Band25	3MHz	16QAM	26055	15RB#0	2.6916	2.977	PASS
Band25	3MHz	QPSK	26365	15RB#0	2.6963	2.931	PASS
Band25	3MHz	16QAM	26365	15RB#0	2.6914	2.950	PASS
Band25	3MHz	QPSK	26675	15RB#0	2.6982	2.933	PASS
Band25	3MHz	16QAM	26675	15RB#0	2.6887	2.962	PASS
Band25	5MHz	QPSK	26065	25RB#0	4.4905	4.937	PASS
Band25	5MHz	16QAM	26065	25RB#0	4.4901	4.976	PASS
Band25	5MHz	QPSK	26365	25RB#0	4.4893	4.924	PASS
Band25	5MHz	16QAM	26365	25RB#0	4.4794	4.982	PASS
Band25	5MHz	QPSK	26665	25RB#0	4.4885	4.933	PASS
Band25	5MHz	16QAM	26665	25RB#0	4.4786	4.995	PASS
Band25	10MHz	QPSK	26090	50RB#0	8.9628	9.880	PASS
Band25	10MHz	16QAM	26090	50RB#0	8.9533	9.747	PASS
Band25	10MHz	QPSK	26365	50RB#0	8.9755	9.837	PASS
Band25	10MHz	16QAM	26365	50RB#0	8.9418	9.723	PASS
Band25	10MHz	QPSK	26640	50RB#0	8.9877	9.823	PASS
Band25	10MHz	16QAM	26640	50RB#0	8.9498	9.804	PASS
Band25	15MHz	QPSK	26115	75RB#0	13.415	14.66	PASS
Band25	15MHz	16QAM	26115	75RB#0	13.426	14.65	PASS
Band25	15MHz	QPSK	26365	75RB#0	13.429	14.60	PASS
Band25	15MHz	16QAM	26365	75RB#0	13.423	14.78	PASS
Band25	15MHz	QPSK	26615	75RB#0	13.417	14.66	PASS
Band25	15MHz	16QAM	26615	75RB#0	13.416	14.56	PASS
Band25	20MHz	QPSK	26140	100RB#0	17.944	19.49	PASS
Band25	20MHz	16QAM	26140	100RB#0	17.874	19.27	PASS
Band25	20MHz	QPSK	26365	100RB#0	17.942	19.41	PASS
Band25	20MHz	16QAM	26365	100RB#0	17.905	19.39	PASS
Band25	20MHz	QPSK	26590	100RB#0	17.929	19.36	PASS
Band25	20MHz	16QAM	26590	100RB#0	17.884	19.38	PASS

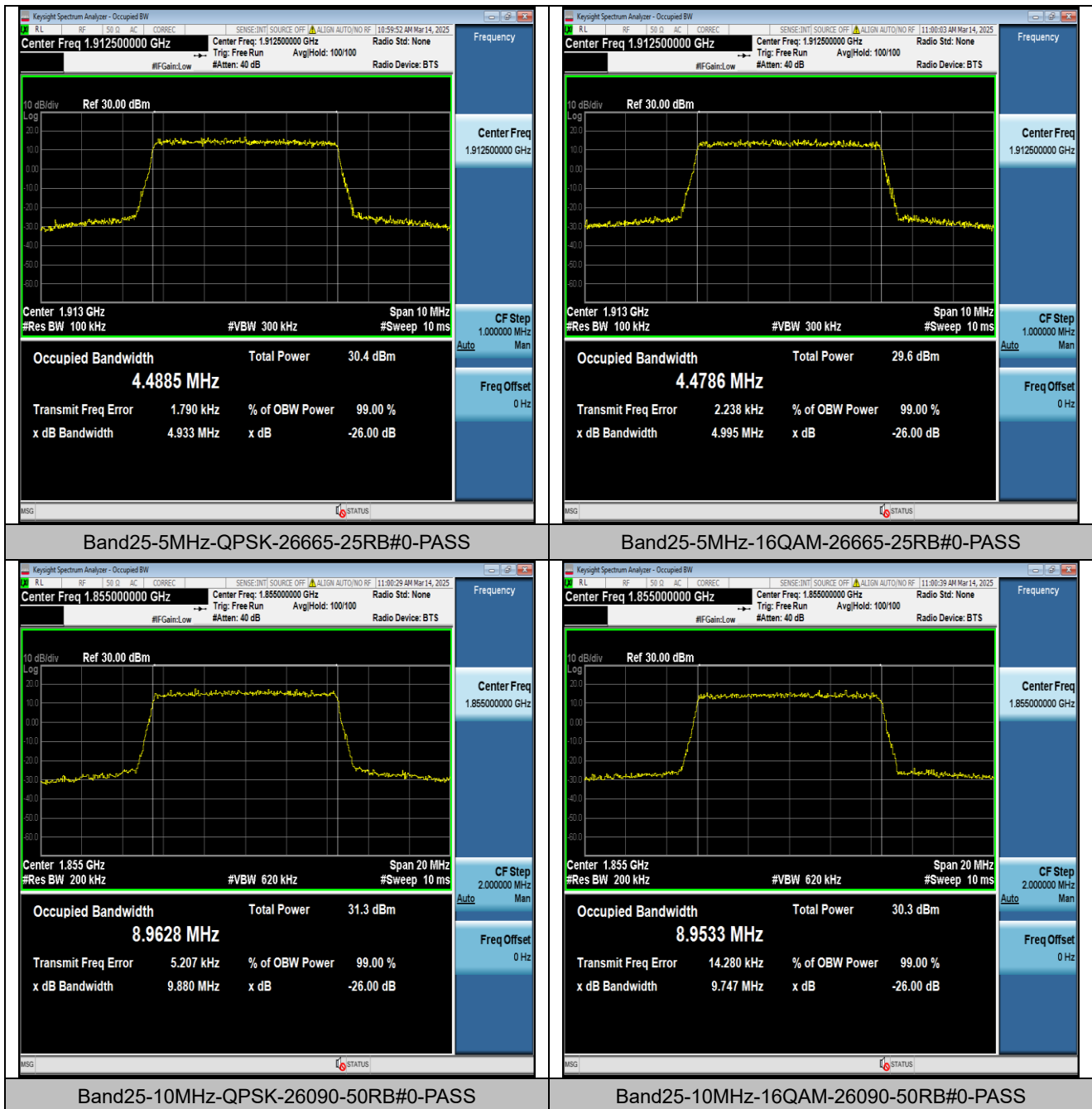
Test Graphs

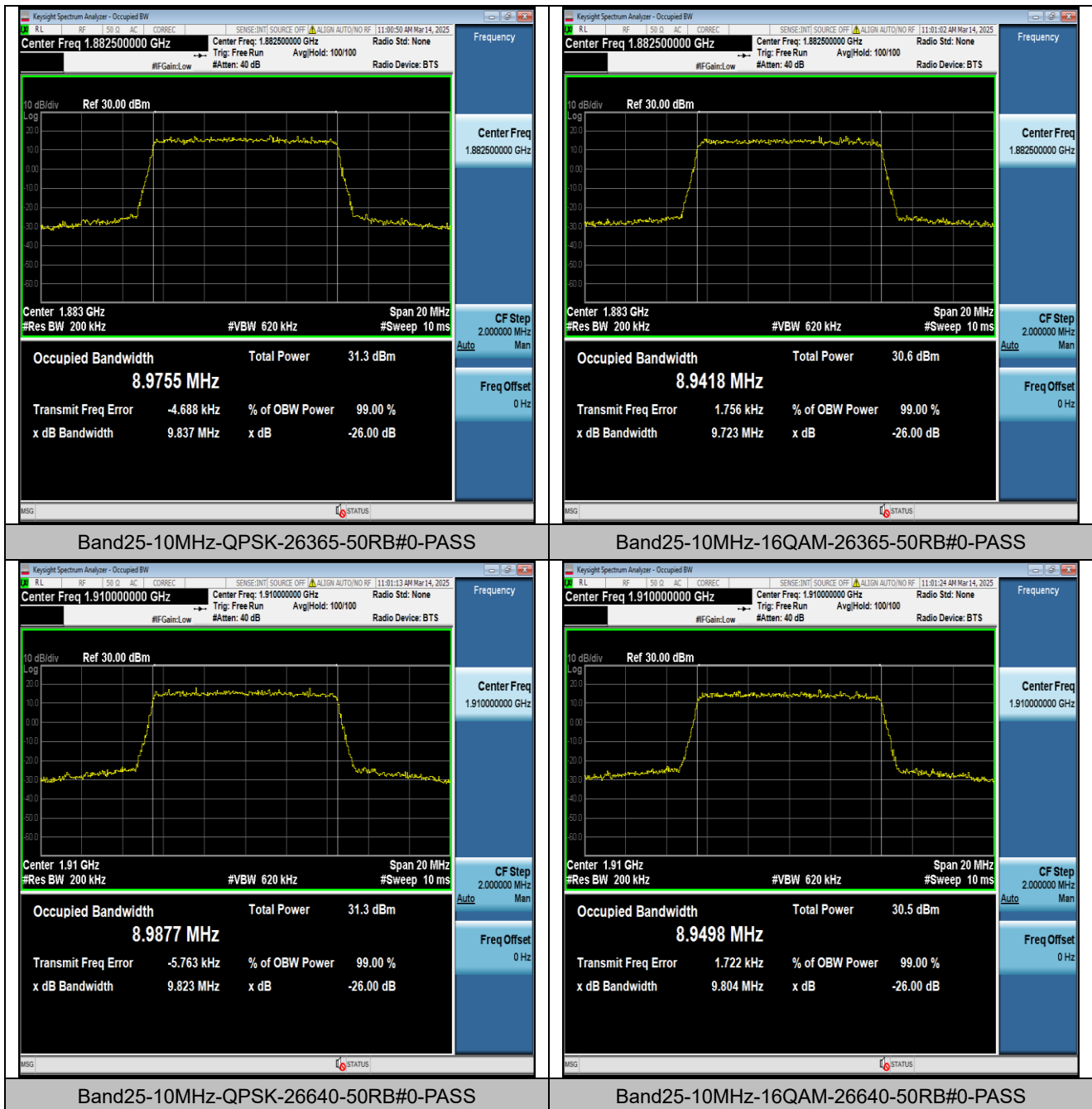


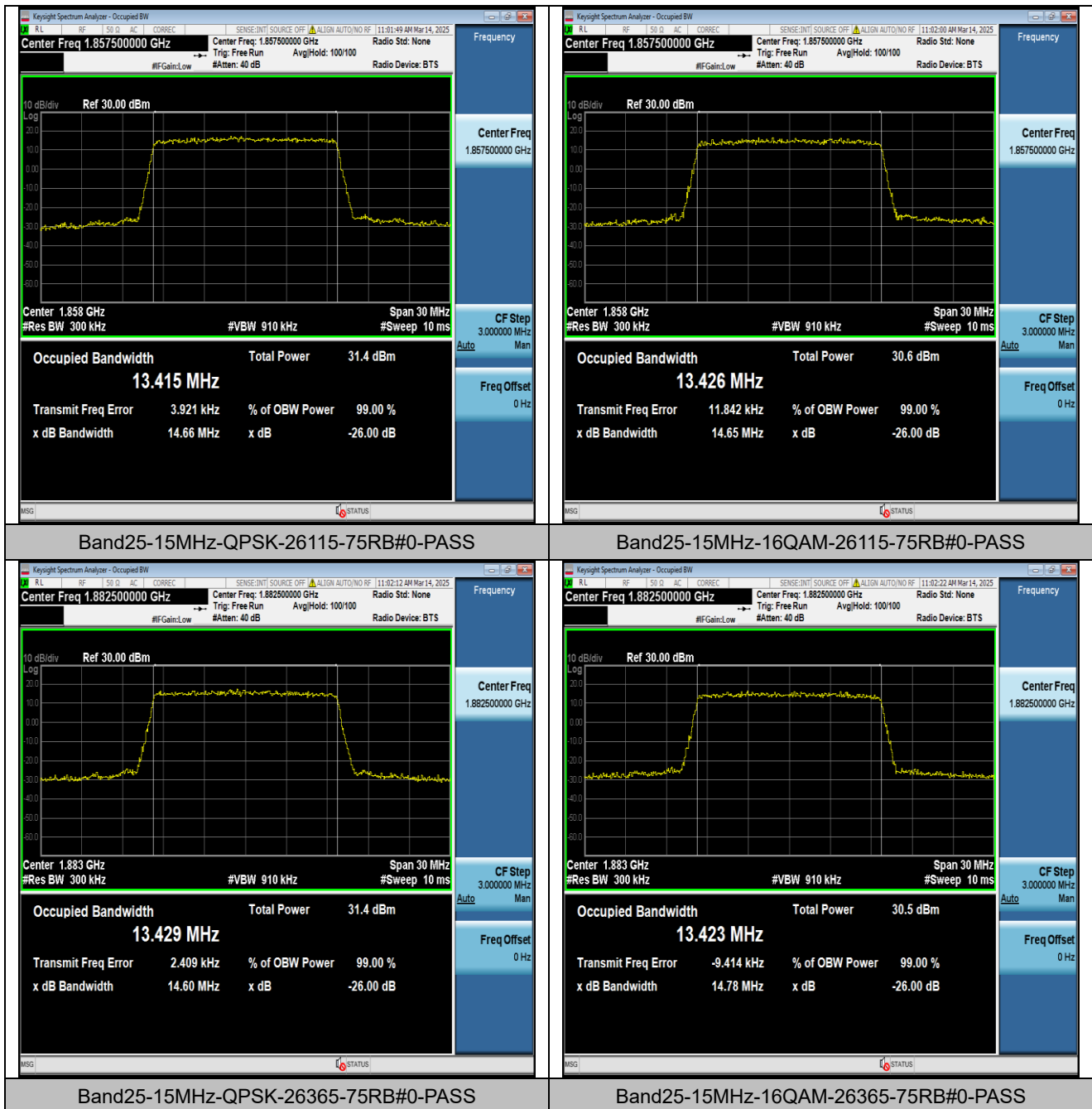


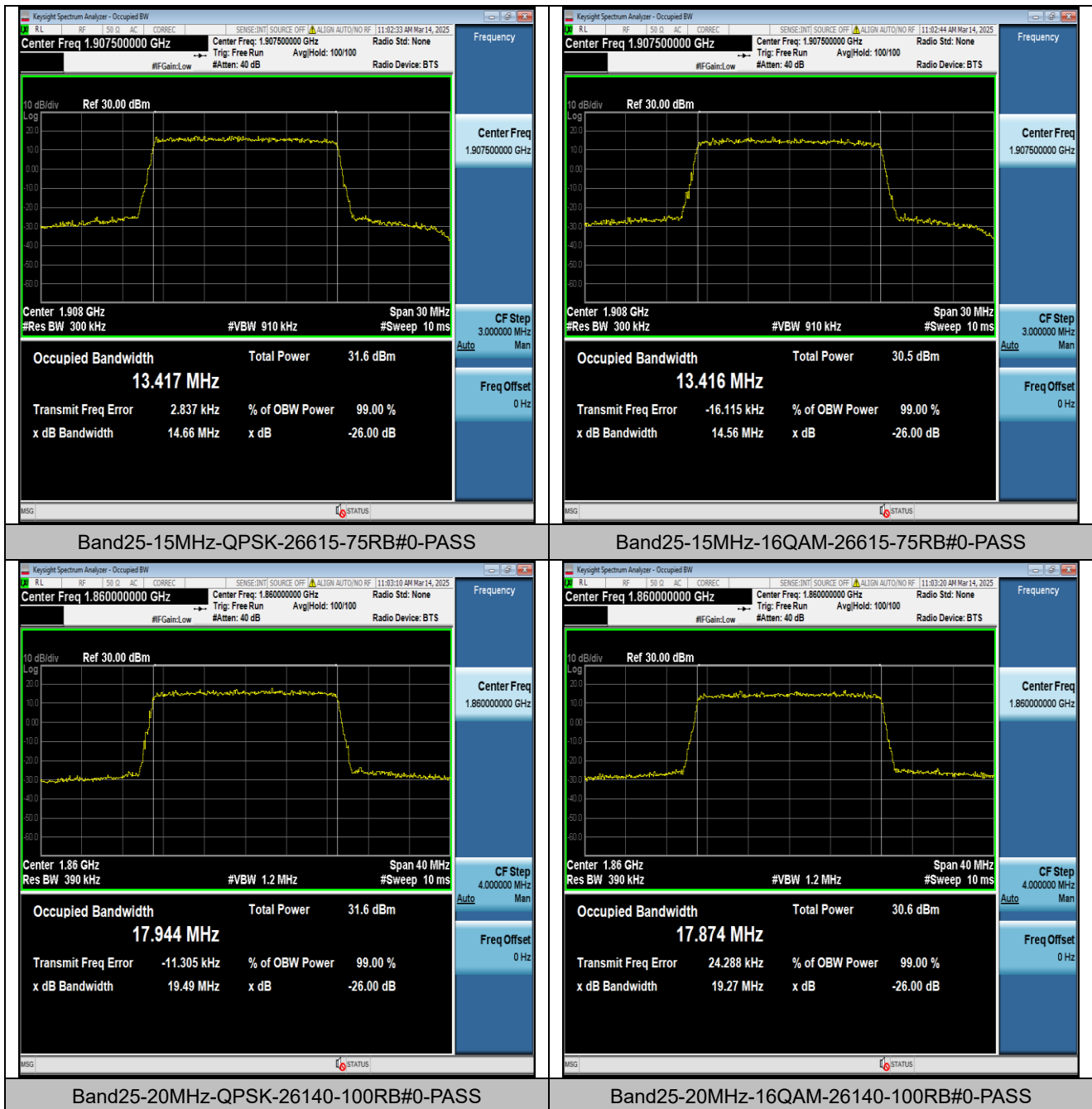


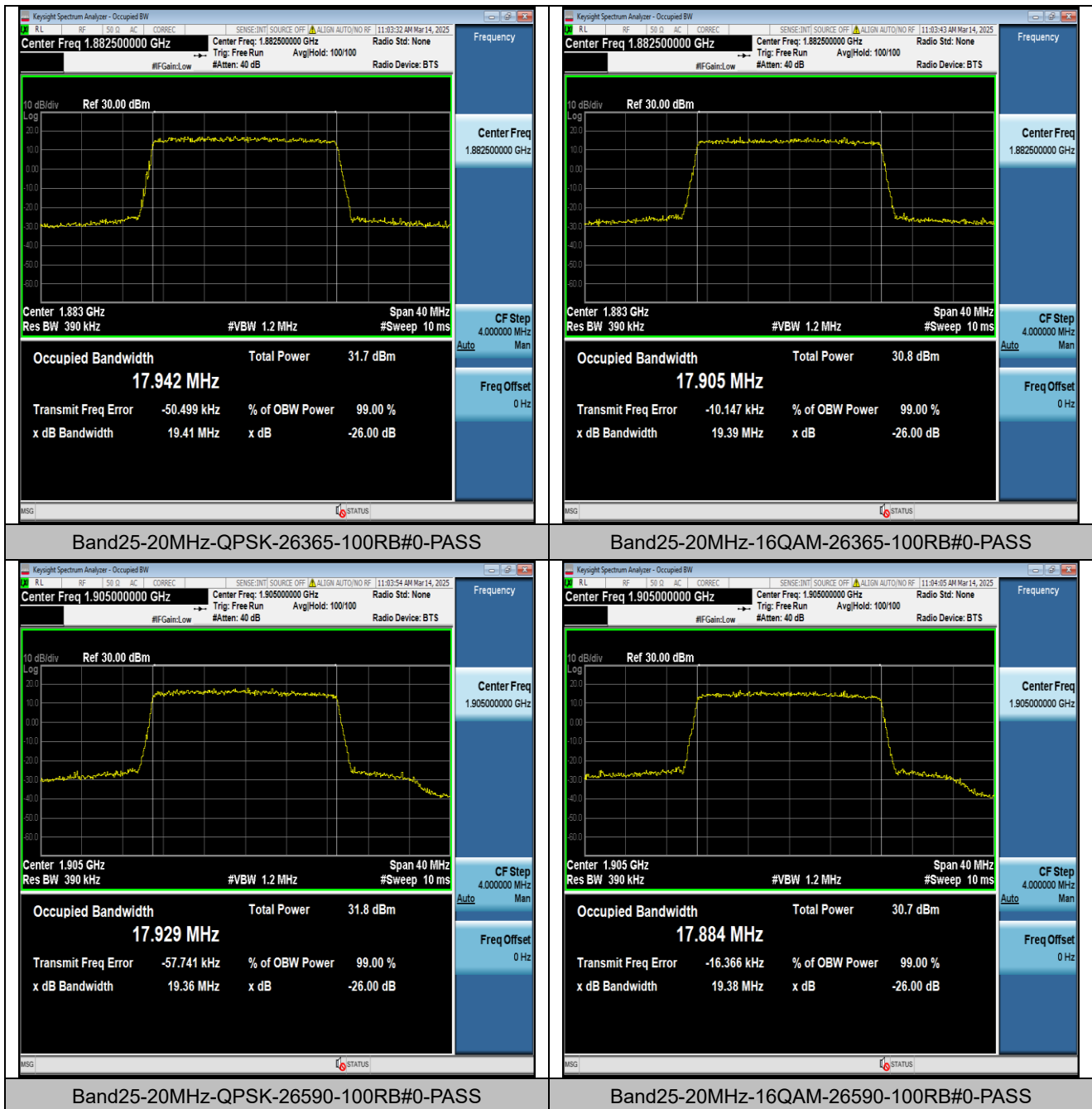






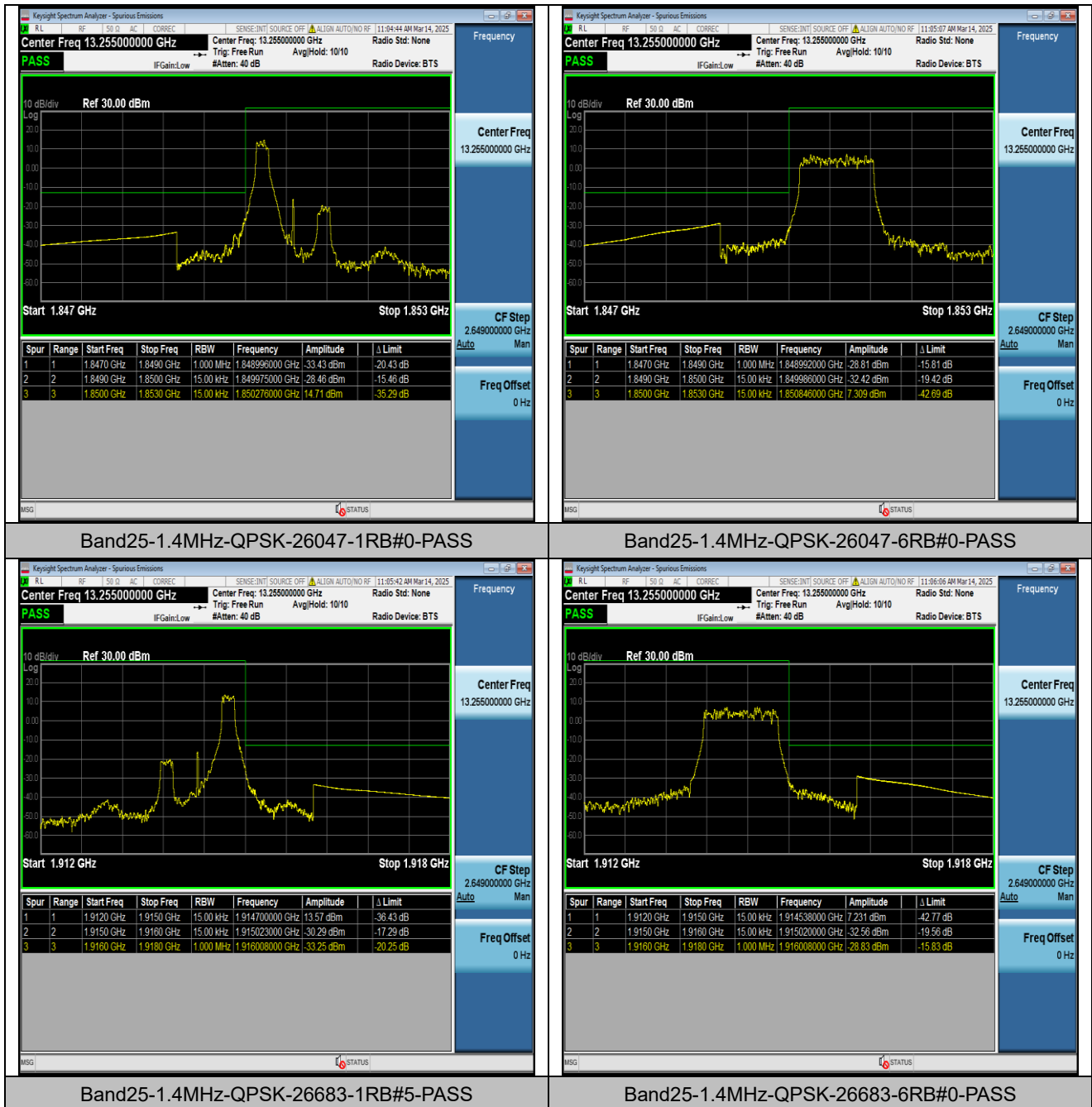


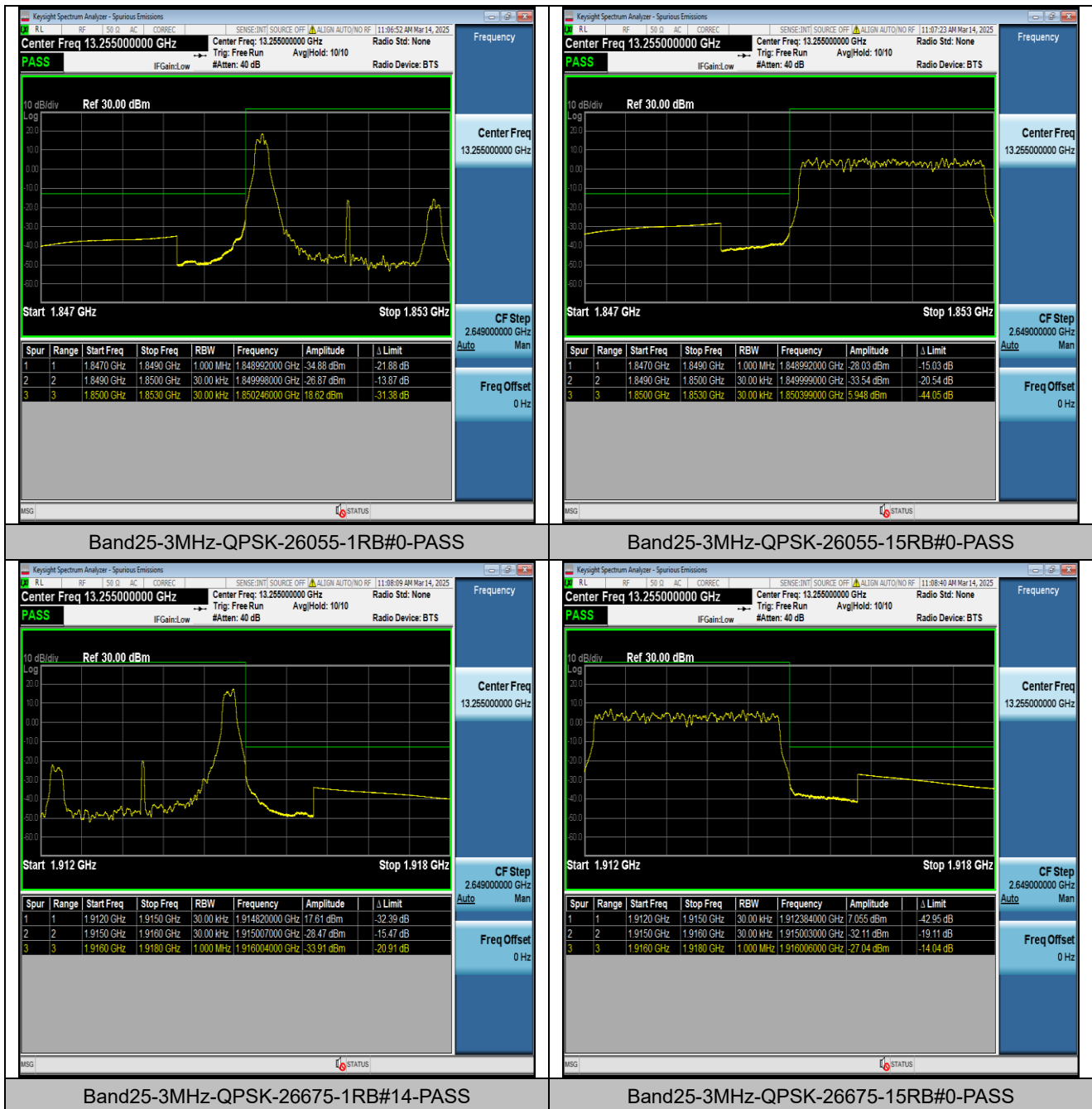


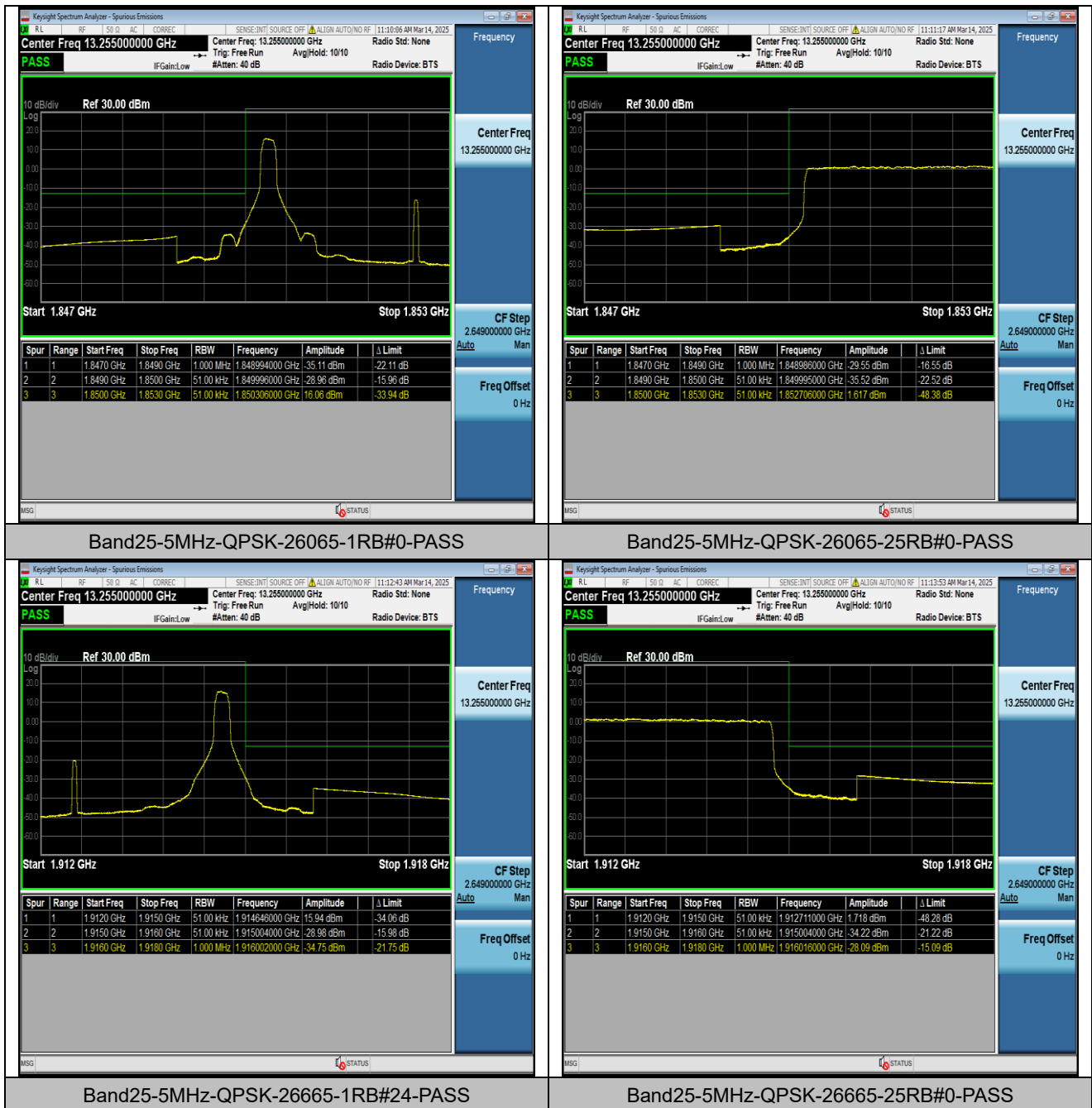


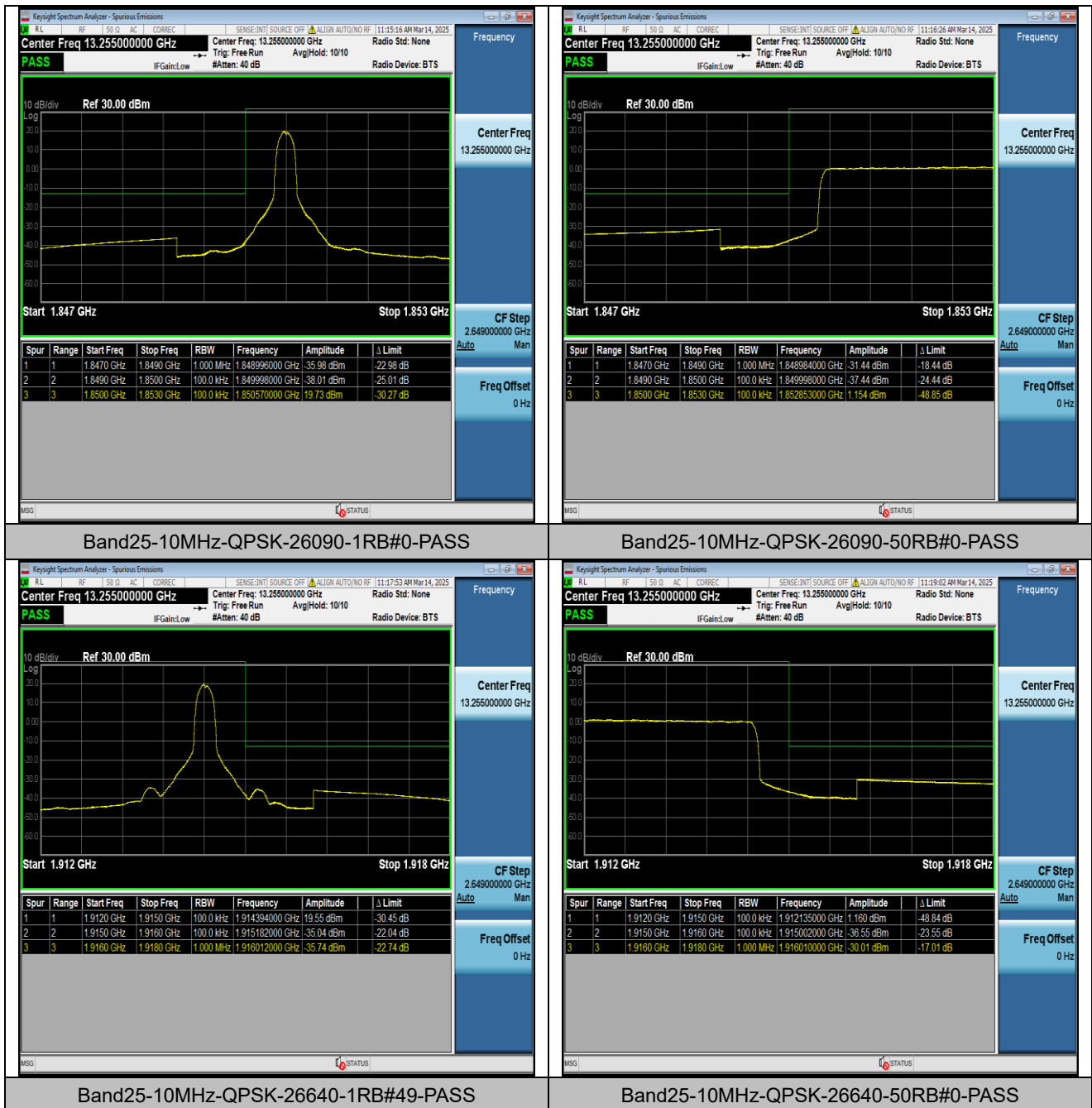
Band Edge

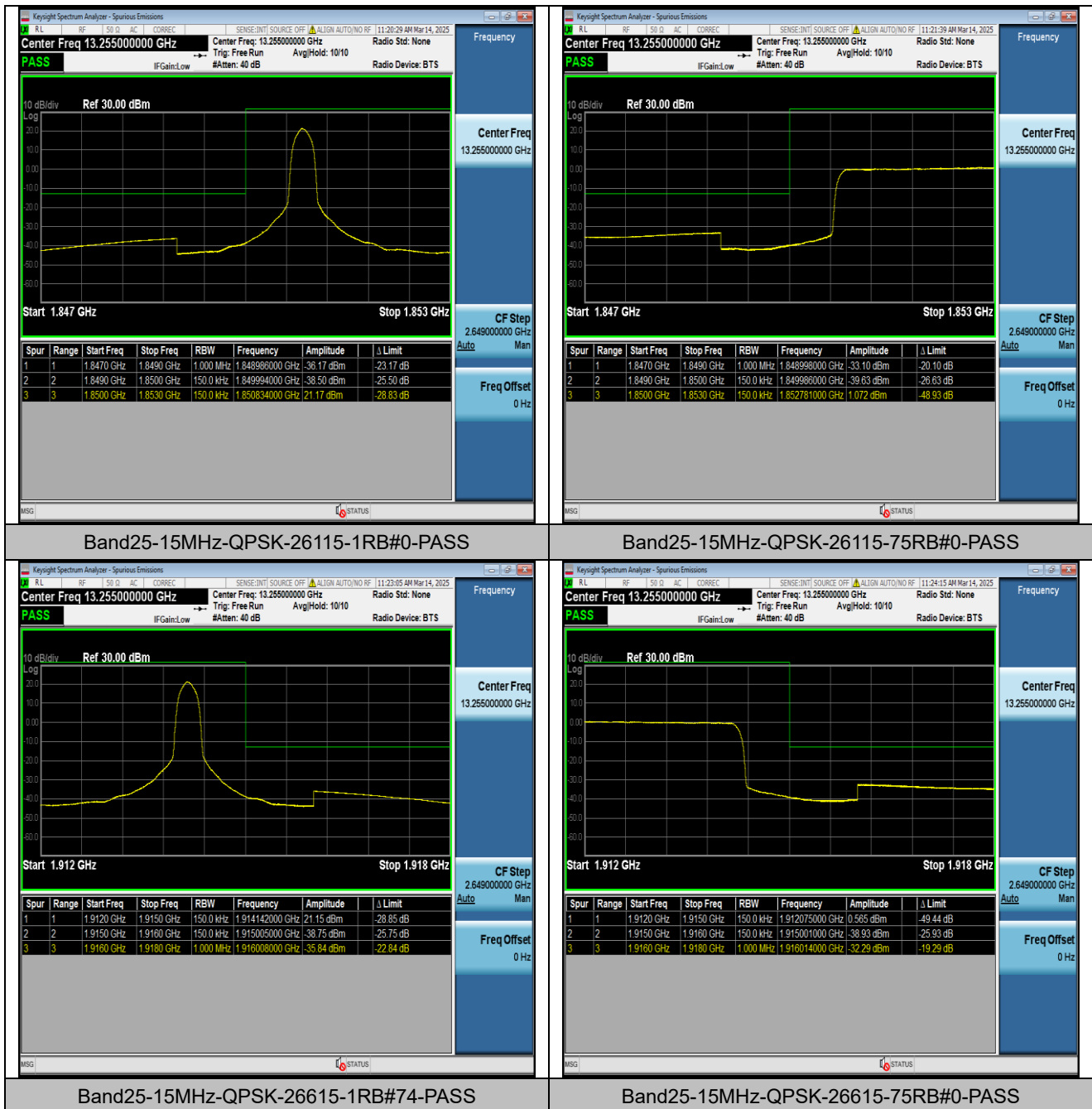
Test Graphs

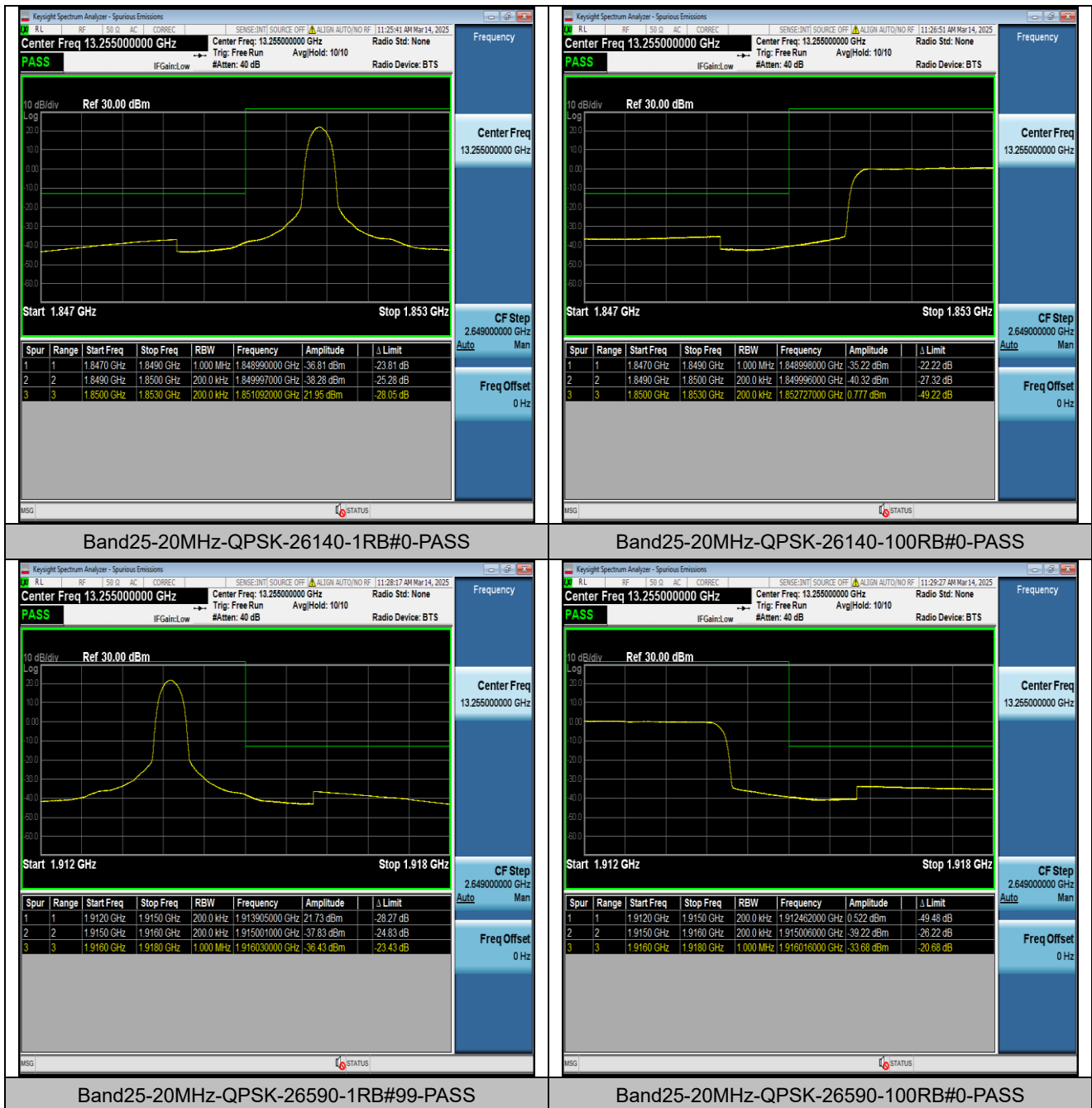






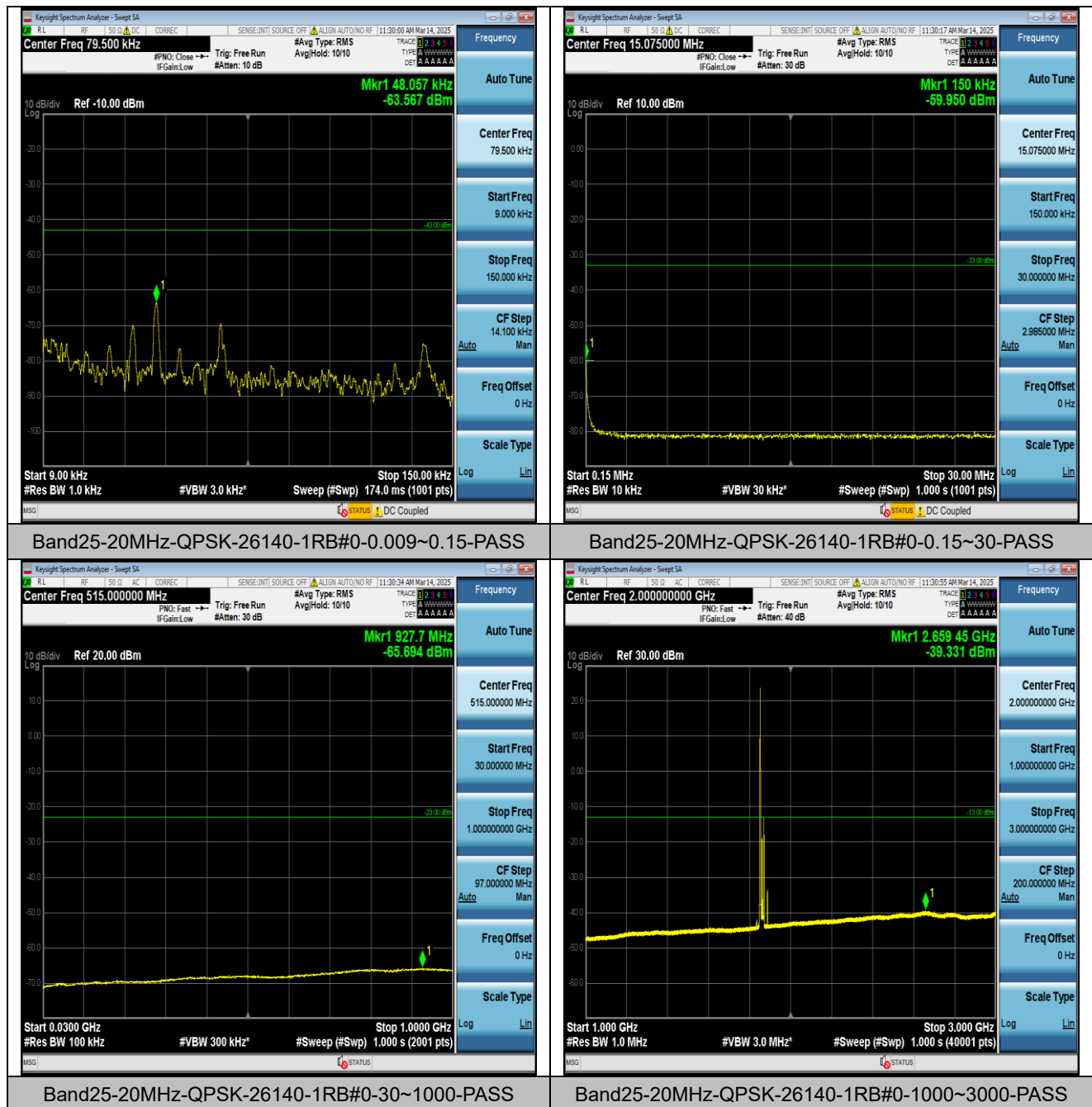


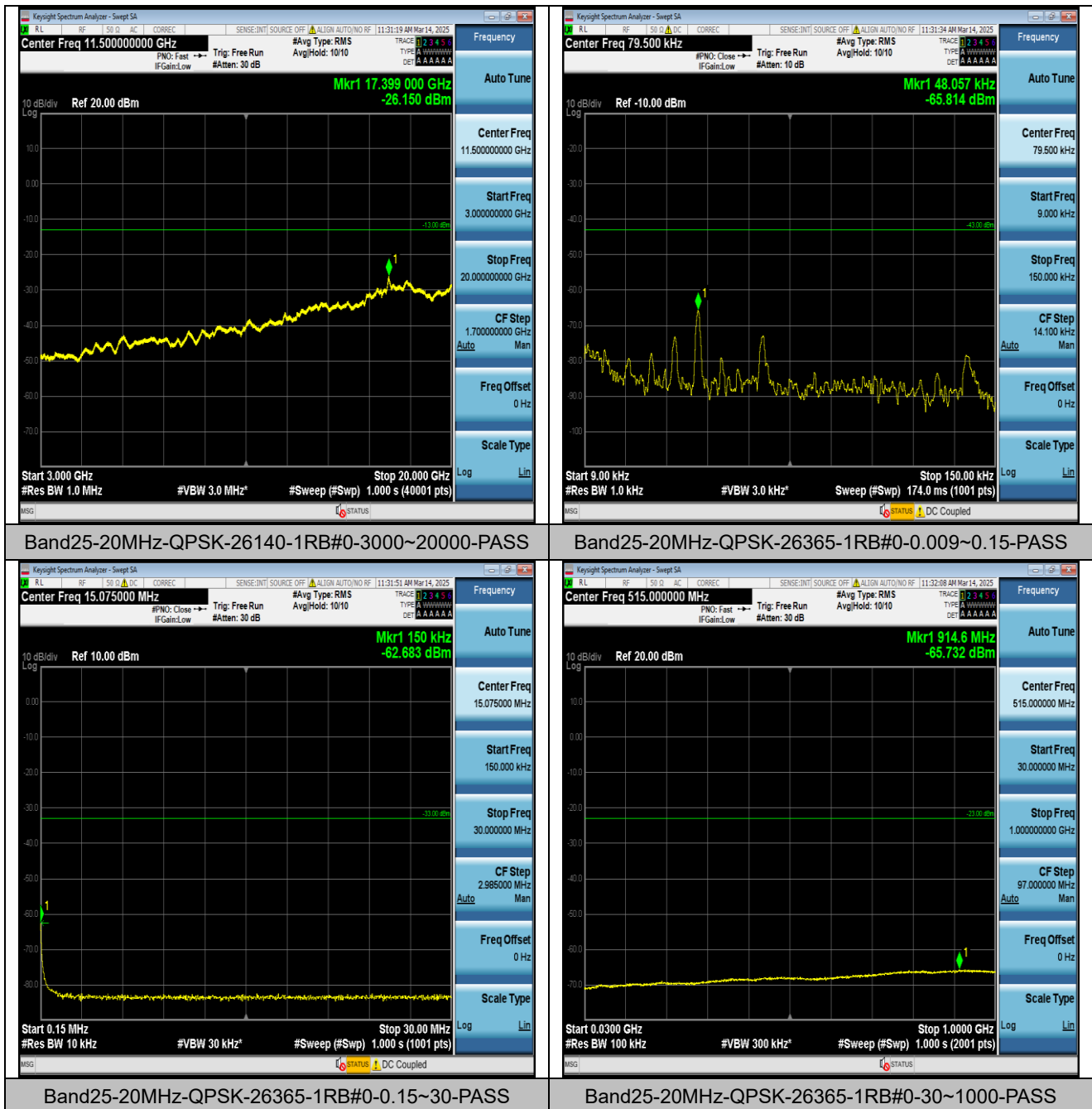


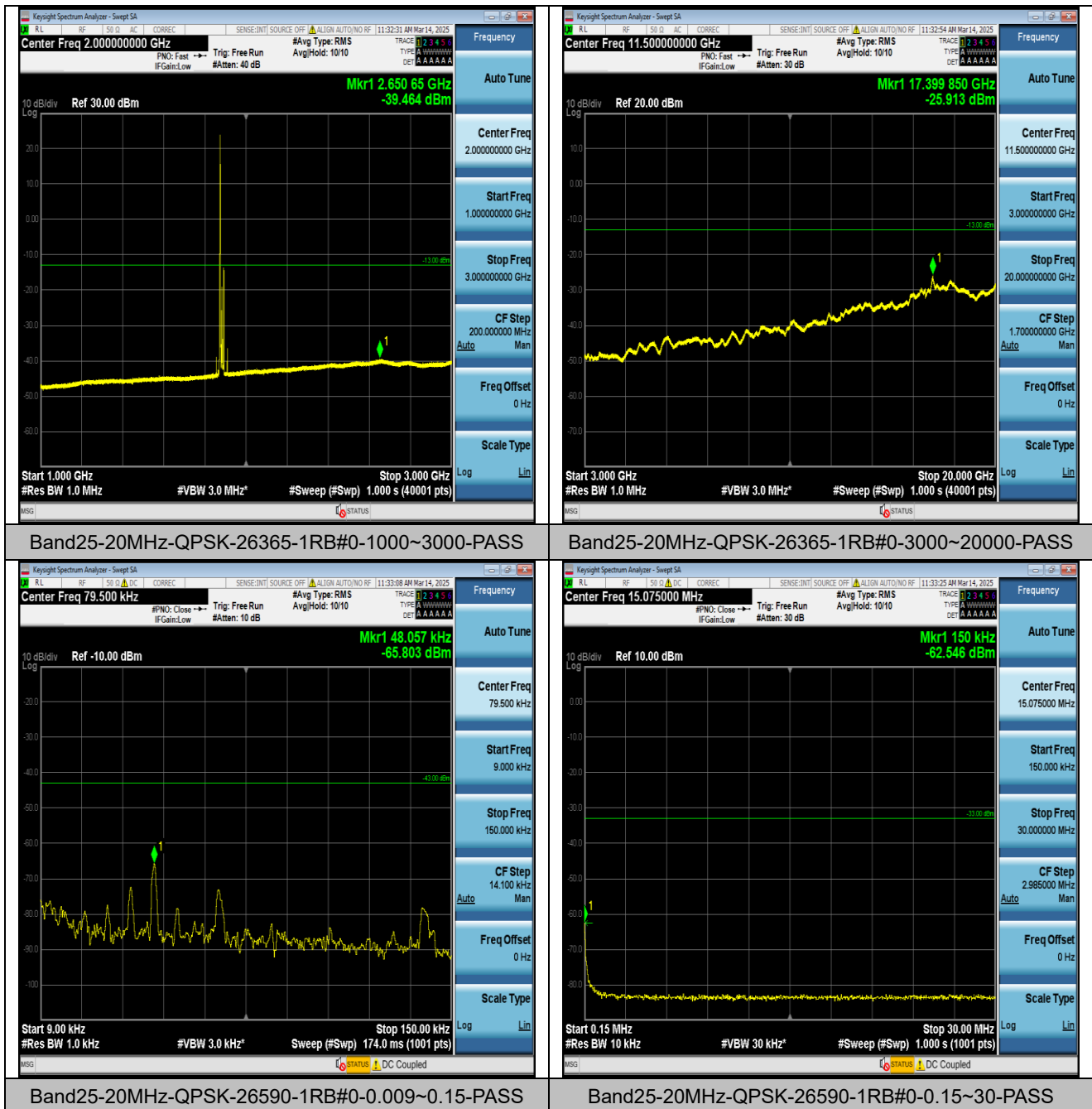


Conducted Spurious Emission

Test Graphs









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	0.80	0.000425	PASS
Band25	20MHz	QPSK	26365	100RB#0	VL	NT	1.80	0.000956	PASS
Band25	20MHz	QPSK	26365	100RB#0	VH	NT	2.10	0.001116	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	2.20	0.001169	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-10	1.80	0.000956	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	0	2.90	0.001541	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	10	2.10	0.001116	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	20	0.80	0.000425	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	30	0.70	0.000372	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	40	1.10	0.000584	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	50	1.70	0.000903	PASS

~The End~