

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	23.08	24.88	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#2	23.14	24.94	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#5	23.13	24.93	33	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	22.14	23.94	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	22.59	24.39	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#2	22.26	24.06	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#5	22.35	24.15	33	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	21.34	23.14	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	23.02	24.82	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#2	22.99	24.79	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#5	23.11	24.91	33	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	22.07	23.87	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#0	22.46	24.26	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#2	22.68	24.48	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#5	22.41	24.21	33	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	21.2	23	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	23.28	25.08	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#2	23.3	25.1	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	23.21	25.01	33	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	22.32	24.12	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	22.8	24.6	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#2	22.68	24.48	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#5	22.68	24.48	33	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	21.5	23.3	33	PASS
Band25	3MHz	QPSK	26055	1RB#0	23.22	25.02	33	PASS
Band25	3MHz	QPSK	26055	1RB#8	23.14	24.94	33	PASS
Band25	3MHz	QPSK	26055	1RB#14	23.15	24.95	33	PASS
Band25	3MHz	QPSK	26055	15RB#0	22.19	23.99	33	PASS
Band25	3MHz	16QAM	26055	1RB#0	22.52	24.32	33	PASS
Band25	3MHz	16QAM	26055	1RB#8	22.38	24.18	33	PASS
Band25	3MHz	16QAM	26055	1RB#14	22.31	24.11	33	PASS
Band25	3MHz	16QAM	26055	15RB#0	21.3	23.1	33	PASS
Band25	3MHz	QPSK	26365	1RB#0	23.23	25.03	33	PASS
Band25	3MHz	QPSK	26365	1RB#8	23.09	24.89	33	PASS
Band25	3MHz	QPSK	26365	1RB#14	23.1	24.9	33	PASS
Band25	3MHz	QPSK	26365	15RB#0	22.09	23.89	33	PASS
Band25	3MHz	16QAM	26365	1RB#0	22.34	24.14	33	PASS

Band25	3MHz	16QAM	26365	1RB#8	22.56	24.36	33	PASS
Band25	3MHz	16QAM	26365	1RB#14	22.46	24.26	33	PASS
Band25	3MHz	16QAM	26365	15RB#0	21.26	23.06	33	PASS
Band25	3MHz	QPSK	26675	1RB#0	23.34	25.14	33	PASS
Band25	3MHz	QPSK	26675	1RB#8	23.41	25.21	33	PASS
Band25	3MHz	QPSK	26675	1RB#14	23.4	25.2	33	PASS
Band25	3MHz	QPSK	26675	15RB#0	22.37	24.17	33	PASS
Band25	3MHz	16QAM	26675	1RB#0	22.6	24.4	33	PASS
Band25	3MHz	16QAM	26675	1RB#8	22.7	24.5	33	PASS
Band25	3MHz	16QAM	26675	1RB#14	22.74	24.54	33	PASS
Band25	3MHz	16QAM	26675	15RB#0	21.42	23.22	33	PASS
Band25	5MHz	QPSK	26065	1RB#0	23.3	25.1	33	PASS
Band25	5MHz	QPSK	26065	1RB#12	23.24	25.04	33	PASS
Band25	5MHz	QPSK	26065	1RB#24	23.27	25.07	33	PASS
Band25	5MHz	QPSK	26065	25RB#0	22.24	24.04	33	PASS
Band25	5MHz	16QAM	26065	1RB#0	22.6	24.4	33	PASS
Band25	5MHz	16QAM	26065	1RB#12	22.73	24.53	33	PASS
Band25	5MHz	16QAM	26065	1RB#24	22.69	24.49	33	PASS
Band25	5MHz	16QAM	26065	25RB#0	21.32	23.12	33	PASS
Band25	5MHz	QPSK	26365	1RB#0	23.19	24.99	33	PASS
Band25	5MHz	QPSK	26365	1RB#12	23.26	25.06	33	PASS
Band25	5MHz	QPSK	26365	1RB#24	23.15	24.95	33	PASS
Band25	5MHz	QPSK	26365	25RB#0	22.17	23.97	33	PASS
Band25	5MHz	16QAM	26365	1RB#0	22.65	24.45	33	PASS
Band25	5MHz	16QAM	26365	1RB#12	22.47	24.27	33	PASS
Band25	5MHz	16QAM	26365	1RB#24	22.64	24.44	33	PASS
Band25	5MHz	16QAM	26365	25RB#0	21.25	23.05	33	PASS
Band25	5MHz	QPSK	26665	1RB#0	23.34	25.14	33	PASS
Band25	5MHz	QPSK	26665	1RB#12	23.34	25.14	33	PASS
Band25	5MHz	QPSK	26665	1RB#24	23.32	25.12	33	PASS
Band25	5MHz	QPSK	26665	25RB#0	22.43	24.23	33	PASS
Band25	5MHz	16QAM	26665	1RB#0	22.65	24.45	33	PASS
Band25	5MHz	16QAM	26665	1RB#12	22.68	24.48	33	PASS
Band25	5MHz	16QAM	26665	1RB#24	22.52	24.32	33	PASS
Band25	5MHz	16QAM	26665	25RB#0	21.48	23.28	33	PASS
Band25	10MHz	QPSK	26090	1RB#0	23.4	25.2	33	PASS
Band25	10MHz	QPSK	26090	1RB#24	23.17	24.97	33	PASS
Band25	10MHz	QPSK	26090	1RB#49	23.43	25.23	33	PASS
Band25	10MHz	QPSK	26090	50RB#0	22.25	24.05	33	PASS
Band25	10MHz	16QAM	26090	1RB#0	22.85	24.65	33	PASS
Band25	10MHz	16QAM	26090	1RB#24	22.52	24.32	33	PASS
Band25	10MHz	16QAM	26090	1RB#49	22.75	24.55	33	PASS
Band25	10MHz	16QAM	26090	50RB#0	21.37	23.17	33	PASS
Band25	10MHz	QPSK	26365	1RB#0	23.35	25.15	33	PASS
Band25	10MHz	QPSK	26365	1RB#24	23.08	24.88	33	PASS

Band25	10MHz	QPSK	26365	1RB#49	23.42	25.22	33	PASS
Band25	10MHz	QPSK	26365	50RB#0	22.23	24.03	33	PASS
Band25	10MHz	16QAM	26365	1RB#0	22.46	24.26	33	PASS
Band25	10MHz	16QAM	26365	1RB#24	22.48	24.28	33	PASS
Band25	10MHz	16QAM	26365	1RB#49	22.88	24.68	33	PASS
Band25	10MHz	16QAM	26365	50RB#0	21.36	23.16	33	PASS
Band25	10MHz	QPSK	26640	1RB#0	23.37	25.17	33	PASS
Band25	10MHz	QPSK	26640	1RB#24	23.37	25.17	33	PASS
Band25	10MHz	QPSK	26640	1RB#49	23.36	25.16	33	PASS
Band25	10MHz	QPSK	26640	50RB#0	22.42	24.22	33	PASS
Band25	10MHz	16QAM	26640	1RB#0	22.71	24.51	33	PASS
Band25	10MHz	16QAM	26640	1RB#24	22.44	24.24	33	PASS
Band25	10MHz	16QAM	26640	1RB#49	22.77	24.57	33	PASS
Band25	10MHz	16QAM	26640	50RB#0	21.47	23.27	33	PASS
Band25	15MHz	QPSK	26115	1RB#0	23.23	25.03	33	PASS
Band25	15MHz	QPSK	26115	1RB#38	23.21	25.01	33	PASS
Band25	15MHz	QPSK	26115	1RB#74	23.18	24.98	33	PASS
Band25	15MHz	QPSK	26115	75RB#0	22.29	24.09	33	PASS
Band25	15MHz	16QAM	26115	1RB#0	22.84	24.64	33	PASS
Band25	15MHz	16QAM	26115	1RB#38	22.69	24.49	33	PASS
Band25	15MHz	16QAM	26115	1RB#74	22.78	24.58	33	PASS
Band25	15MHz	16QAM	26115	75RB#0	21.39	23.19	33	PASS
Band25	15MHz	QPSK	26365	1RB#0	23.22	25.02	33	PASS
Band25	15MHz	QPSK	26365	1RB#38	23.21	25.01	33	PASS
Band25	15MHz	QPSK	26365	1RB#74	23.2	25	33	PASS
Band25	15MHz	QPSK	26365	75RB#0	22.18	23.98	33	PASS
Band25	15MHz	16QAM	26365	1RB#0	22.77	24.57	33	PASS
Band25	15MHz	16QAM	26365	1RB#38	22.65	24.45	33	PASS
Band25	15MHz	16QAM	26365	1RB#74	22.32	24.12	33	PASS
Band25	15MHz	16QAM	26365	75RB#0	21.3	23.1	33	PASS
Band25	15MHz	QPSK	26615	1RB#0	23.41	25.21	33	PASS
Band25	15MHz	QPSK	26615	1RB#38	23.3	25.1	33	PASS
Band25	15MHz	QPSK	26615	1RB#74	23.47	25.27	33	PASS
Band25	15MHz	QPSK	26615	75RB#0	22.47	24.27	33	PASS
Band25	15MHz	16QAM	26615	1RB#0	22.69	24.49	33	PASS
Band25	15MHz	16QAM	26615	1RB#38	22.75	24.55	33	PASS
Band25	15MHz	16QAM	26615	1RB#74	22.51	24.31	33	PASS
Band25	15MHz	16QAM	26615	75RB#0	21.54	23.34	33	PASS
Band25	20MHz	QPSK	26140	1RB#0	23.37	25.17	33	PASS
Band25	20MHz	QPSK	26140	1RB#49	23.25	25.05	33	PASS
Band25	20MHz	QPSK	26140	1RB#99	23.29	25.09	33	PASS
Band25	20MHz	QPSK	26140	100RB#0	22.31	24.11	33	PASS
Band25	20MHz	16QAM	26140	1RB#0	22.5	24.3	33	PASS
Band25	20MHz	16QAM	26140	1RB#49	22.53	24.33	33	PASS
Band25	20MHz	16QAM	26140	1RB#99	22.87	24.67	33	PASS

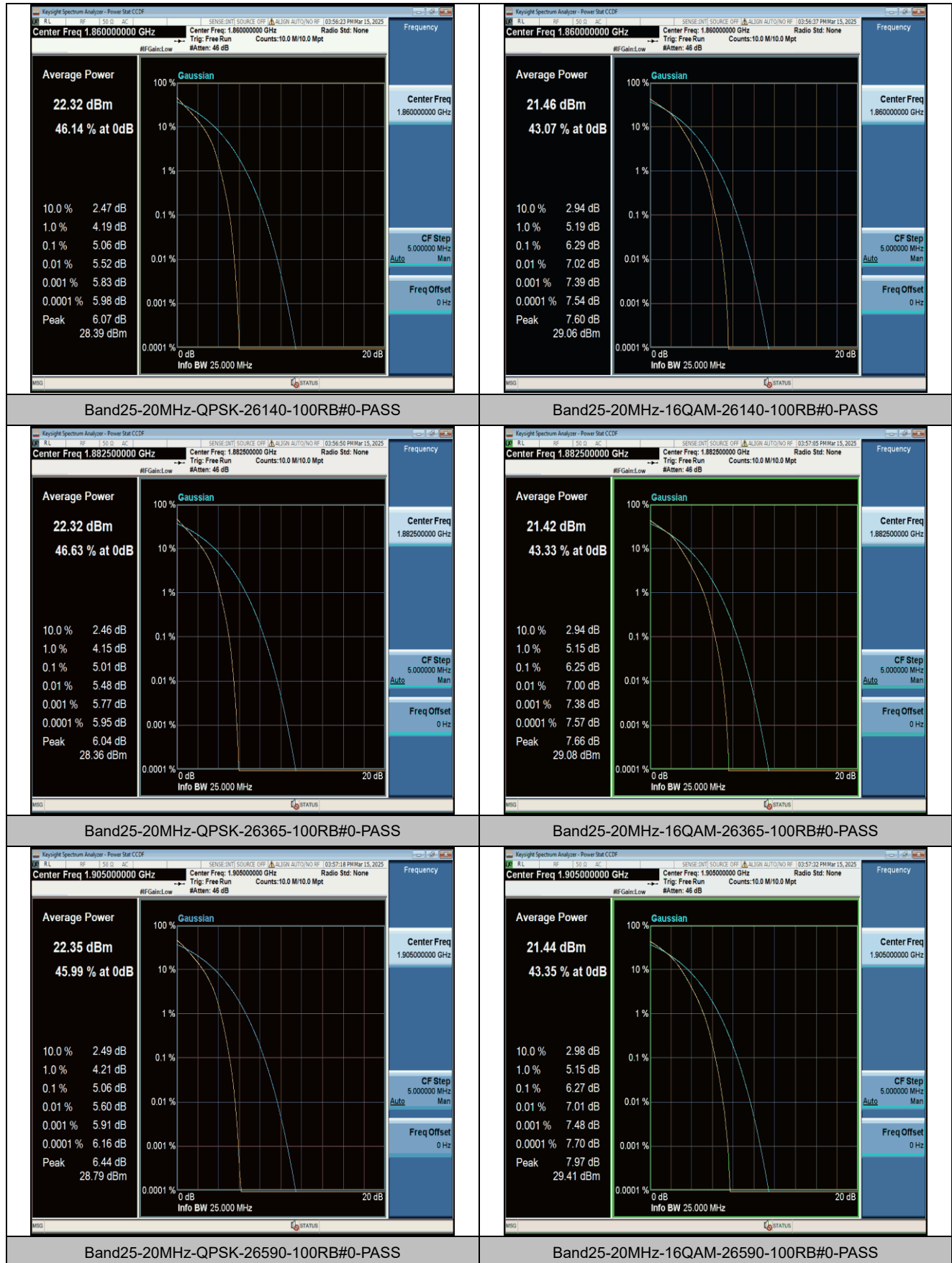
Band25	20MHz	16QAM	26140	100RB#0	21.4	23.2	33	PASS
Band25	20MHz	QPSK	26365	1RB#0	23.41	25.21	33	PASS
Band25	20MHz	QPSK	26365	1RB#49	23.11	24.91	33	PASS
Band25	20MHz	QPSK	26365	1RB#99	23.5	25.3	33	PASS
Band25	20MHz	QPSK	26365	100RB#0	22.29	24.09	33	PASS
Band25	20MHz	16QAM	26365	1RB#0	22.74	24.54	33	PASS
Band25	20MHz	16QAM	26365	1RB#49	22.36	24.16	33	PASS
Band25	20MHz	16QAM	26365	1RB#99	22.85	24.65	33	PASS
Band25	20MHz	16QAM	26365	100RB#0	21.42	23.22	33	PASS
Band25	20MHz	QPSK	26590	1RB#0	23.35	25.15	33	PASS
Band25	20MHz	QPSK	26590	1RB#49	23.32	25.12	33	PASS
Band25	20MHz	QPSK	26590	1RB#99	23.44	25.24	33	PASS
Band25	20MHz	QPSK	26590	100RB#0	22.29	24.09	33	PASS
Band25	20MHz	16QAM	26590	1RB#0	22.58	24.38	33	PASS
Band25	20MHz	16QAM	26590	1RB#49	22.81	24.61	33	PASS
Band25	20MHz	16QAM	26590	1RB#99	22.69	24.49	33	PASS
Band25	20MHz	16QAM	26590	100RB#0	21.41	23.21	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	5.06	13	PASS
Band25	20MHz	16QAM	26140	100RB#0	6.29	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	5.01	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.25	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	5.06	13	PASS
Band25	20MHz	16QAM	26590	100RB#0	6.27	13	PASS

Test Graphs

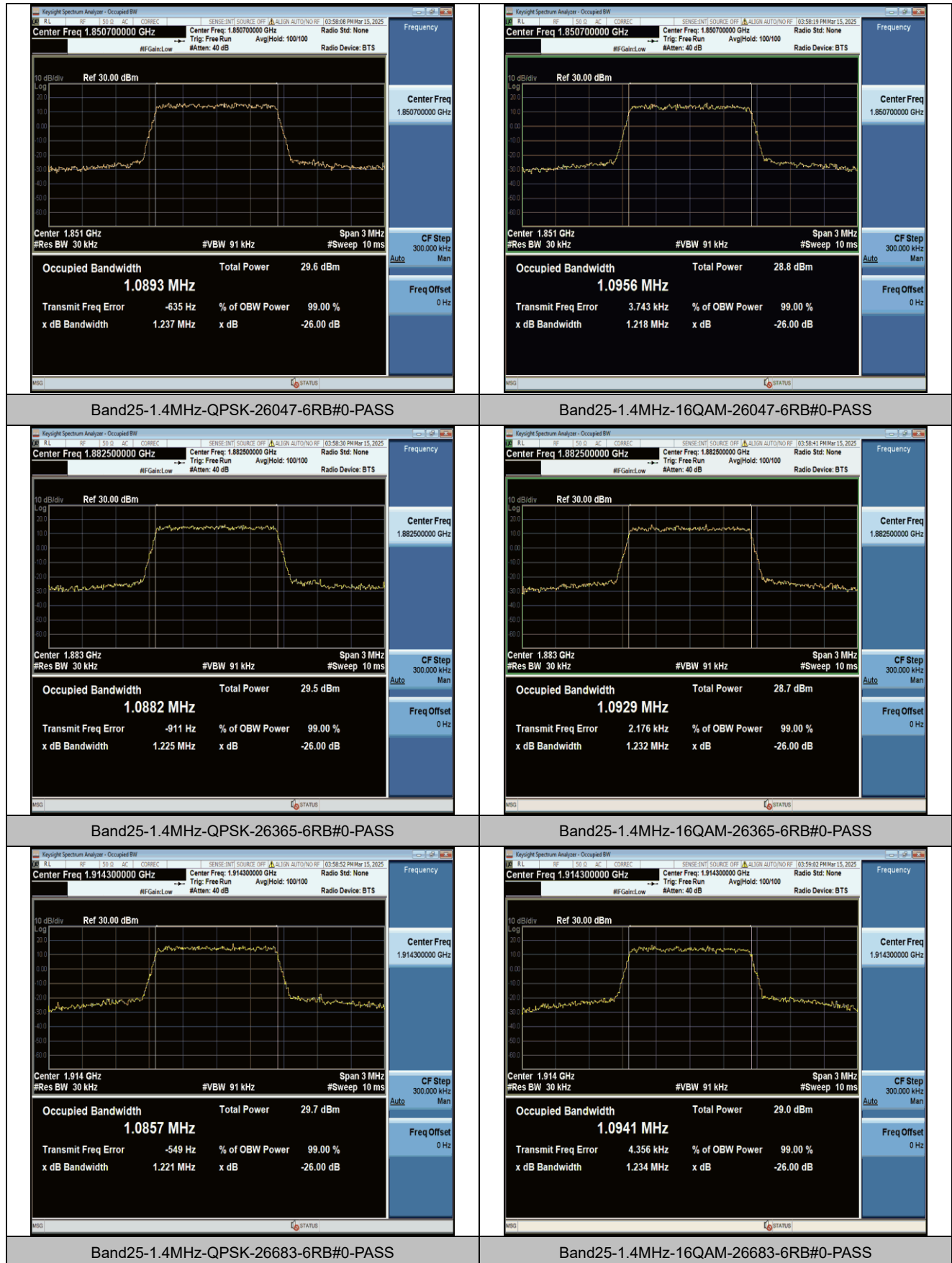


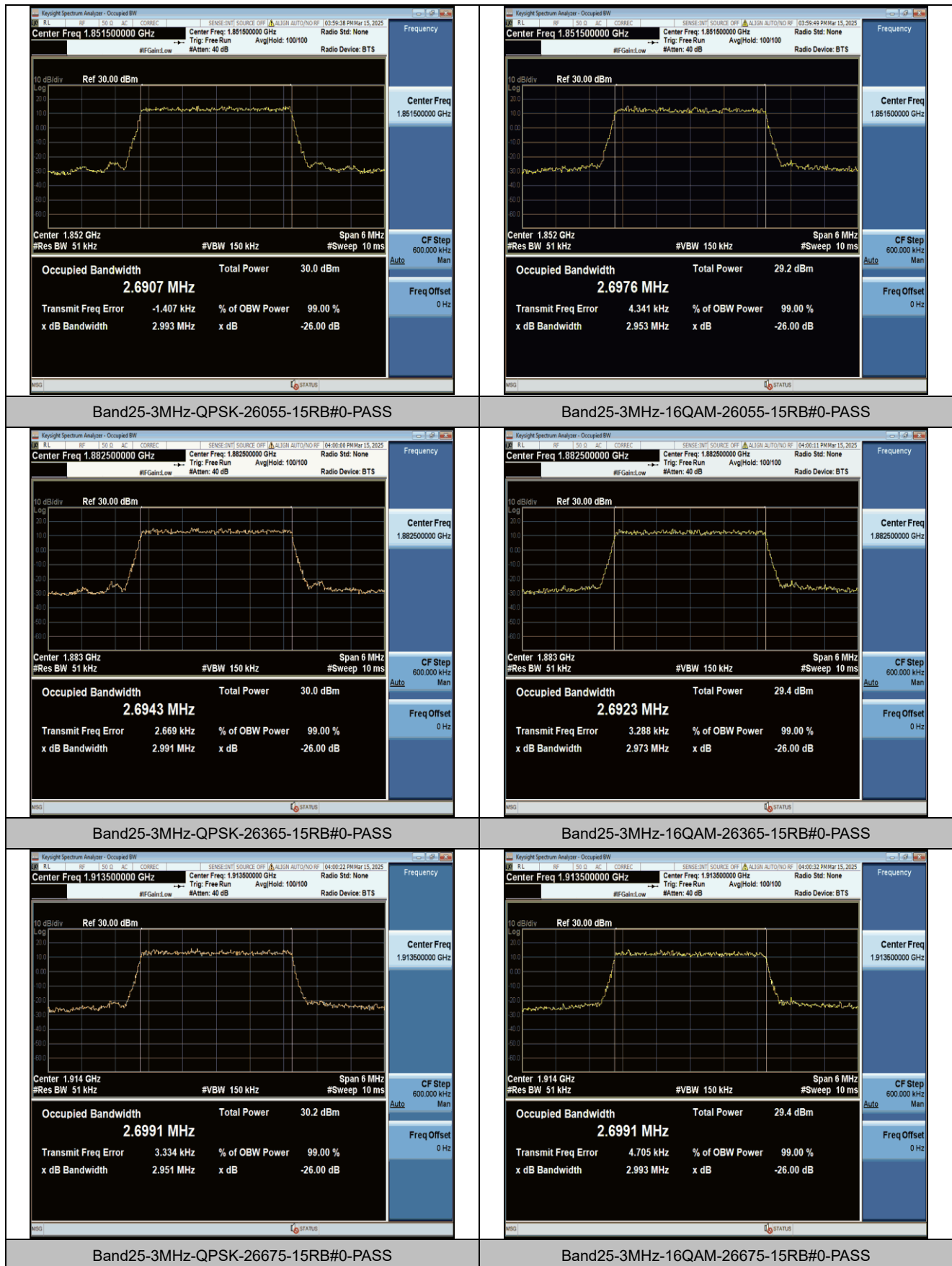
26dB Bandwidth and Occupied Bandwidth

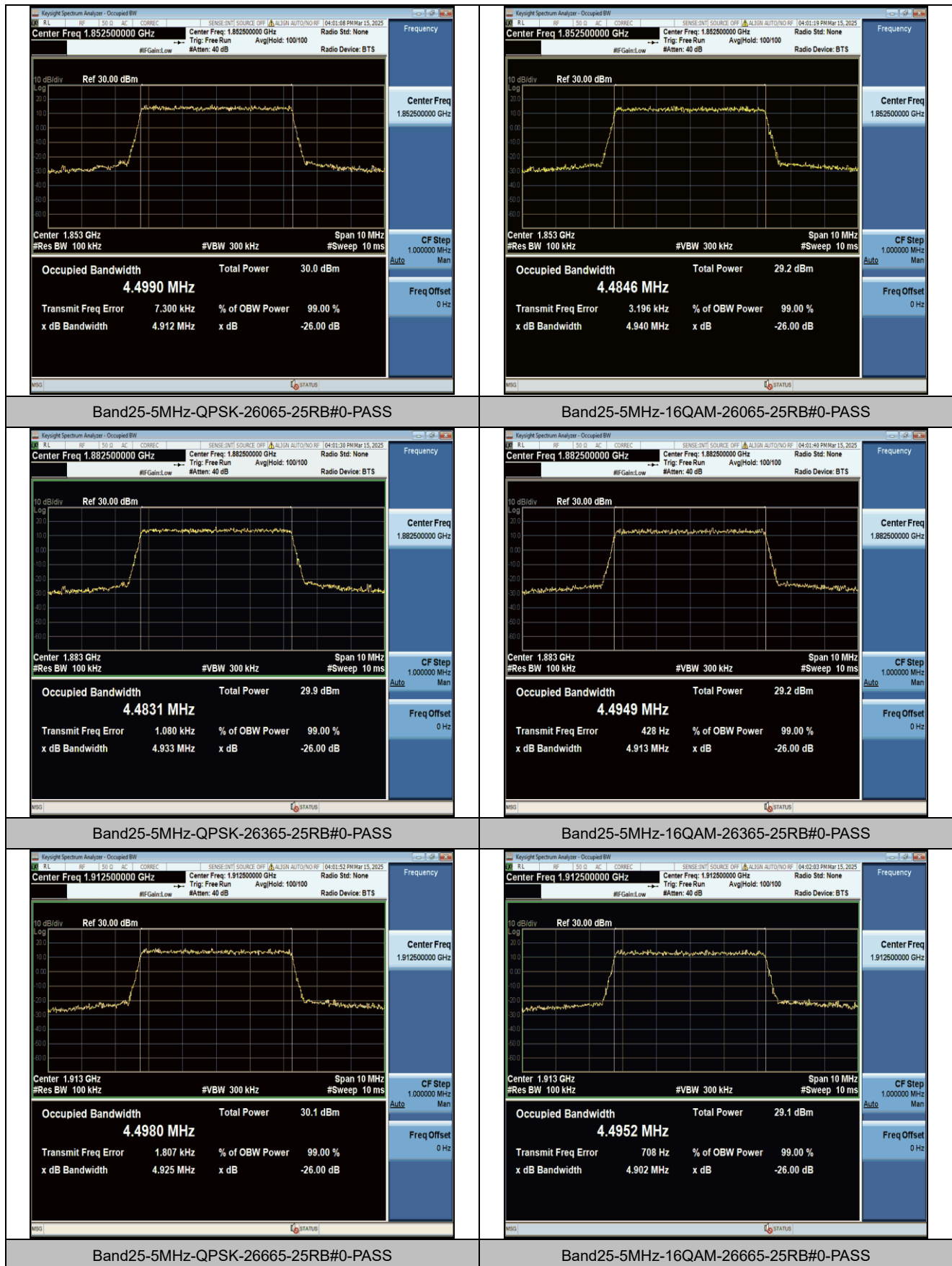
Test Result

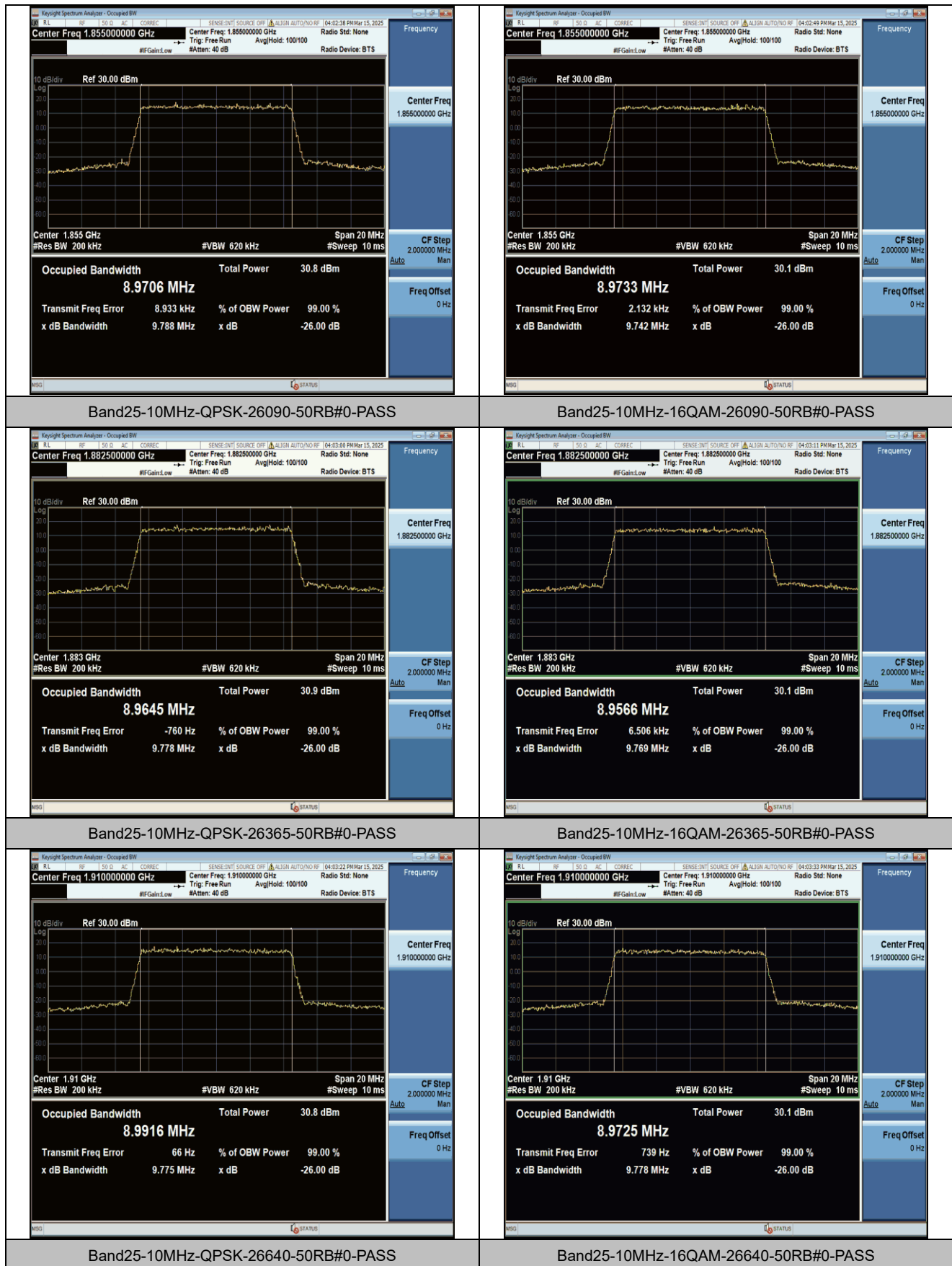
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band25	1.4MHz	QPSK	26047	6RB#0	1.0893	1.237	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	1.0956	1.218	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	1.0882	1.225	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	1.0929	1.232	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	1.0857	1.221	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	1.0941	1.234	PASS
Band25	3MHz	QPSK	26055	15RB#0	2.6907	2.993	PASS
Band25	3MHz	16QAM	26055	15RB#0	2.6976	2.953	PASS
Band25	3MHz	QPSK	26365	15RB#0	2.6943	2.991	PASS
Band25	3MHz	16QAM	26365	15RB#0	2.6923	2.973	PASS
Band25	3MHz	QPSK	26675	15RB#0	2.6991	2.951	PASS
Band25	3MHz	16QAM	26675	15RB#0	2.6991	2.993	PASS
Band25	5MHz	QPSK	26065	25RB#0	4.4990	4.912	PASS
Band25	5MHz	16QAM	26065	25RB#0	4.4846	4.940	PASS
Band25	5MHz	QPSK	26365	25RB#0	4.4831	4.933	PASS
Band25	5MHz	16QAM	26365	25RB#0	4.4949	4.913	PASS
Band25	5MHz	QPSK	26665	25RB#0	4.4980	4.925	PASS
Band25	5MHz	16QAM	26665	25RB#0	4.4952	4.902	PASS
Band25	10MHz	QPSK	26090	50RB#0	8.9706	9.788	PASS
Band25	10MHz	16QAM	26090	50RB#0	8.9733	9.742	PASS
Band25	10MHz	QPSK	26365	50RB#0	8.9645	9.778	PASS
Band25	10MHz	16QAM	26365	50RB#0	8.9566	9.769	PASS
Band25	10MHz	QPSK	26640	50RB#0	8.9916	9.775	PASS
Band25	10MHz	16QAM	26640	50RB#0	8.9725	9.778	PASS
Band25	15MHz	QPSK	26115	75RB#0	13.463	14.68	PASS
Band25	15MHz	16QAM	26115	75RB#0	13.468	14.65	PASS
Band25	15MHz	QPSK	26365	75RB#0	13.458	14.68	PASS
Band25	15MHz	16QAM	26365	75RB#0	13.450	14.63	PASS
Band25	15MHz	QPSK	26615	75RB#0	13.458	14.63	PASS
Band25	15MHz	16QAM	26615	75RB#0	13.464	14.65	PASS
Band25	20MHz	QPSK	26140	100RB#0	17.908	19.61	PASS
Band25	20MHz	16QAM	26140	100RB#0	17.964	19.48	PASS
Band25	20MHz	QPSK	26365	100RB#0	17.941	19.69	PASS
Band25	20MHz	16QAM	26365	100RB#0	17.924	19.40	PASS
Band25	20MHz	QPSK	26590	100RB#0	17.956	19.43	PASS
Band25	20MHz	16QAM	26590	100RB#0	17.906	19.38	PASS

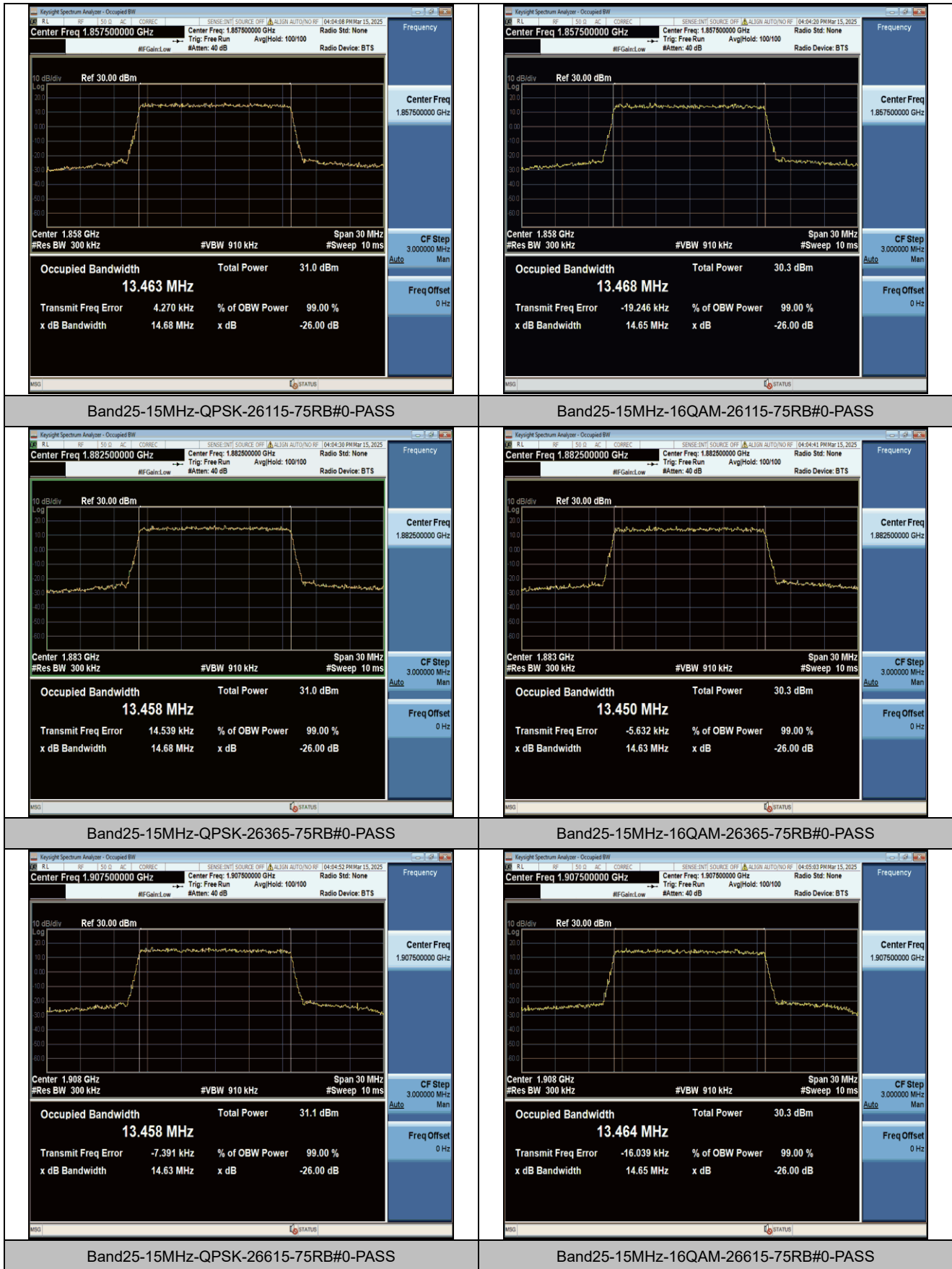
Test Graphs

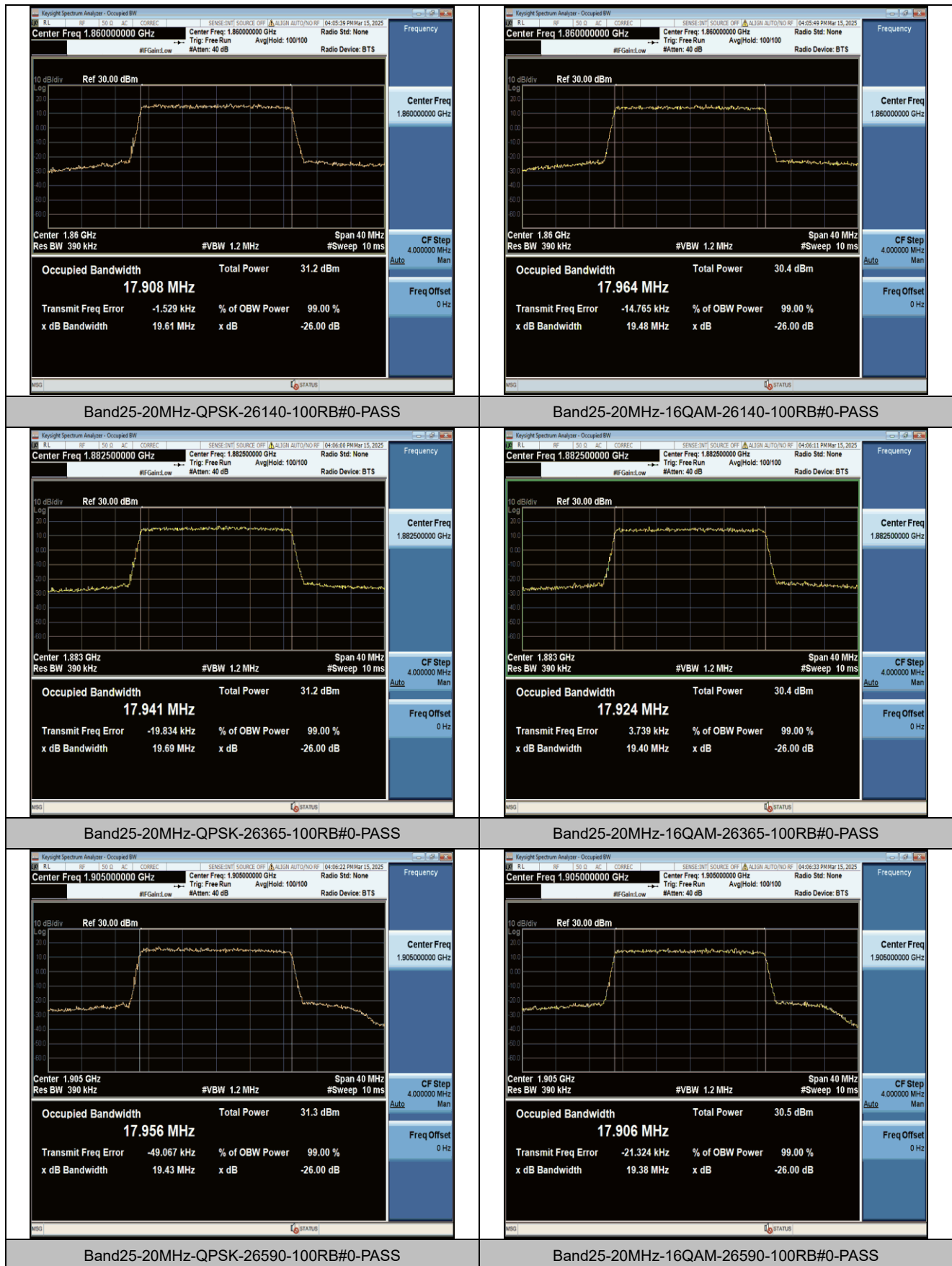






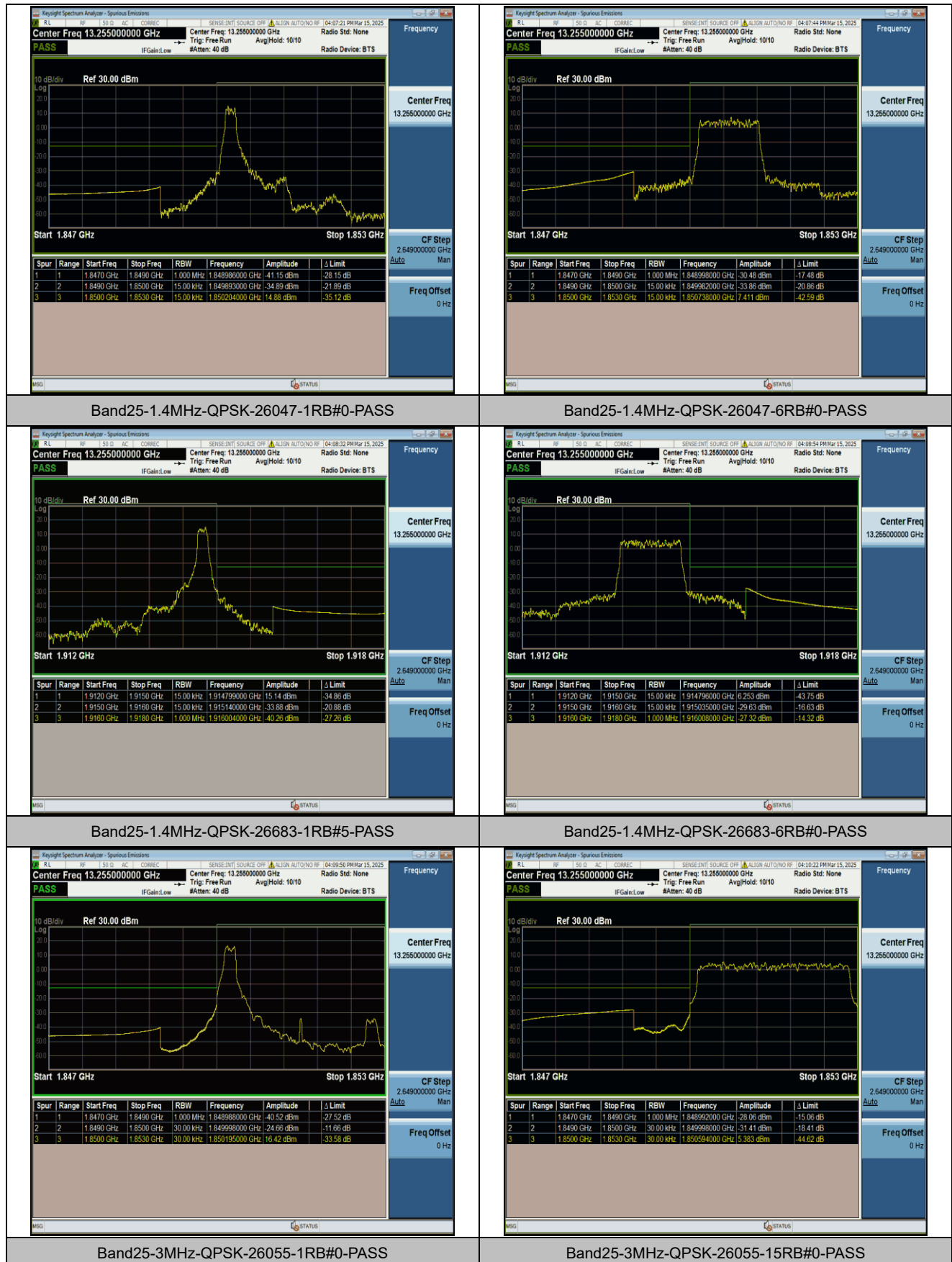


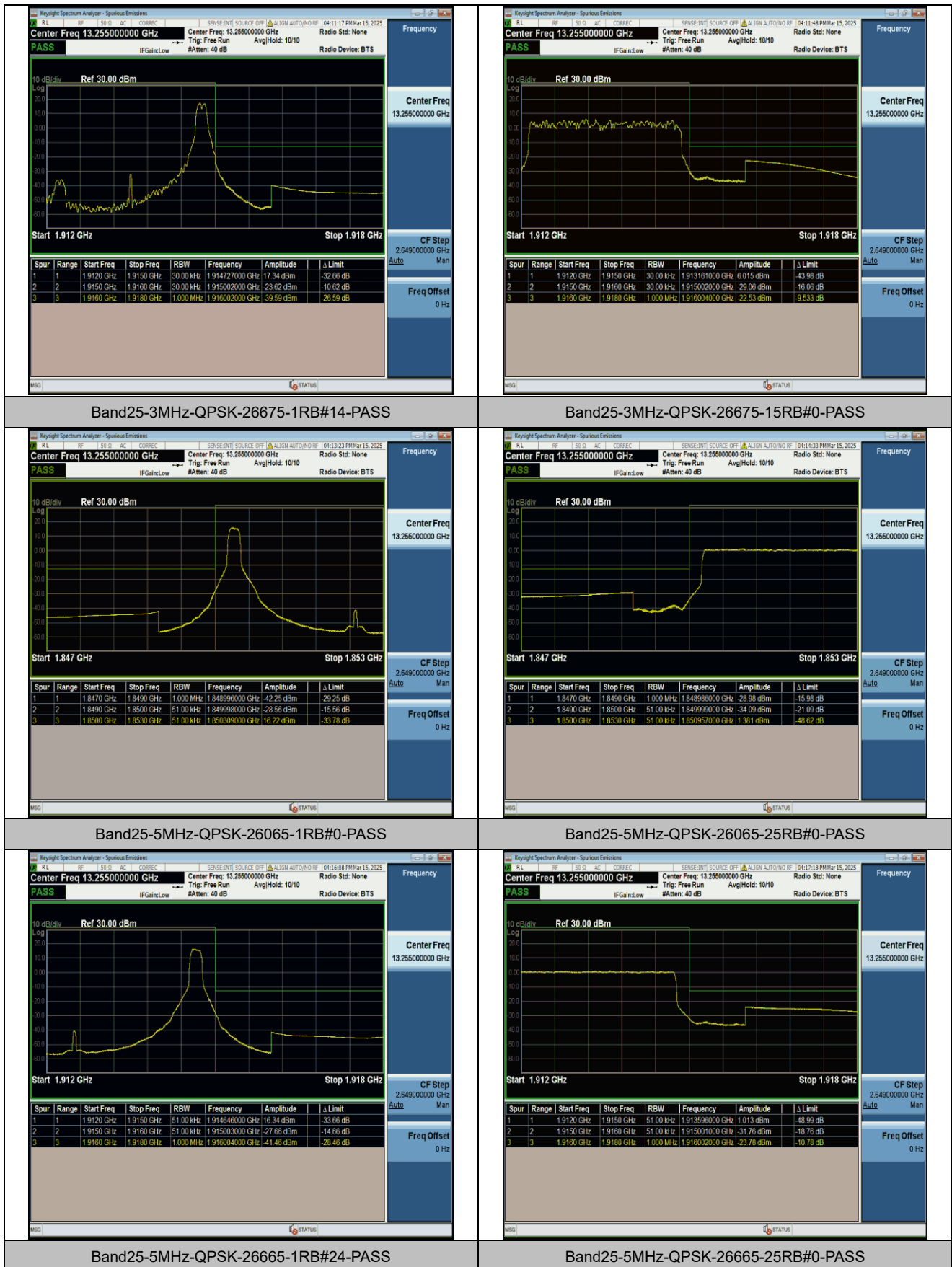


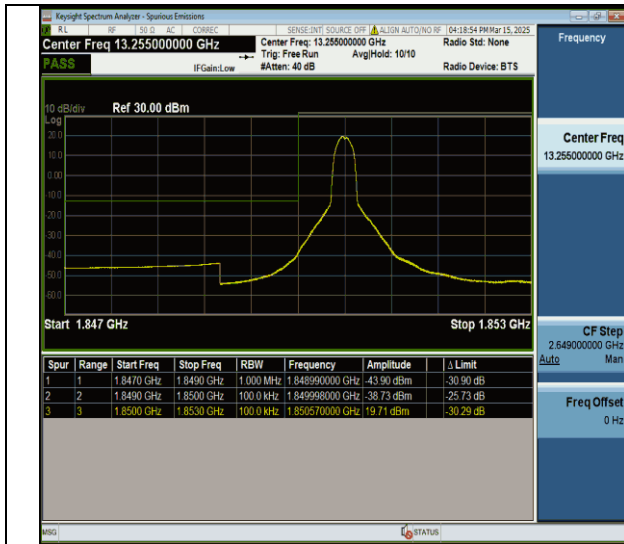


Band Edge

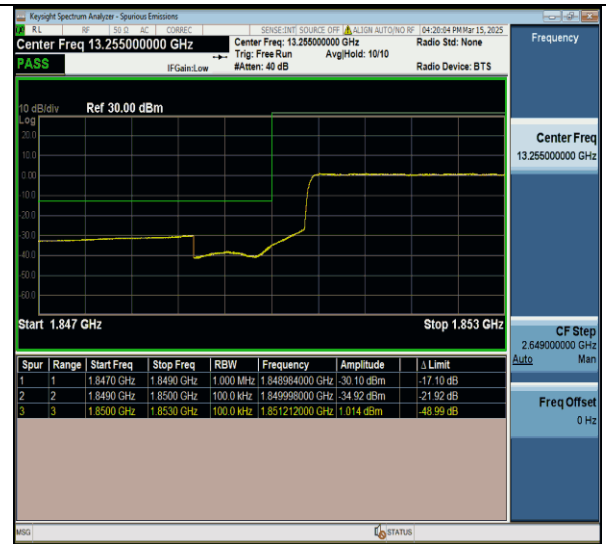
Test Graphs



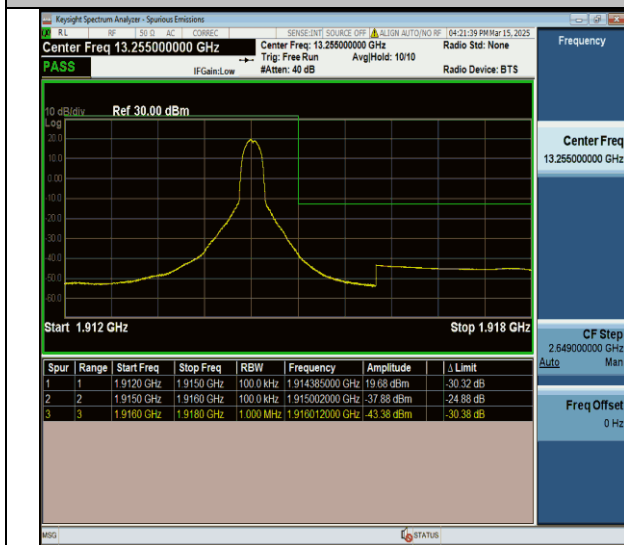




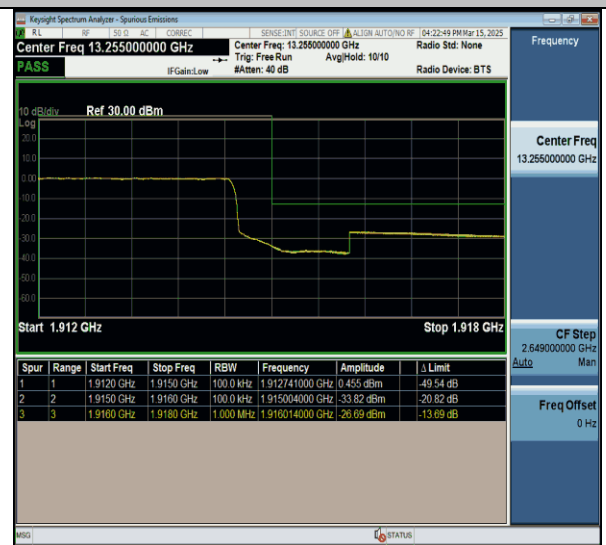
Band25-10MHz-QPSK-26090-1RB#0-PASS



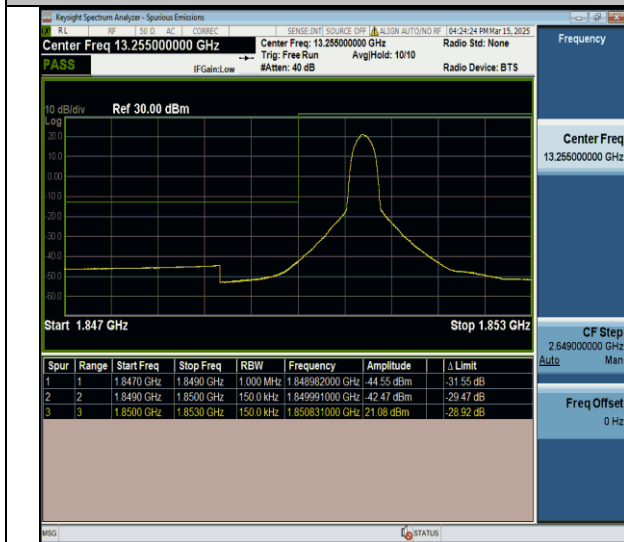
Band25-10MHz-QPSK-26090-50RB#0-PASS



Band25-10MHz-QPSK-26640-1RB#49-PASS



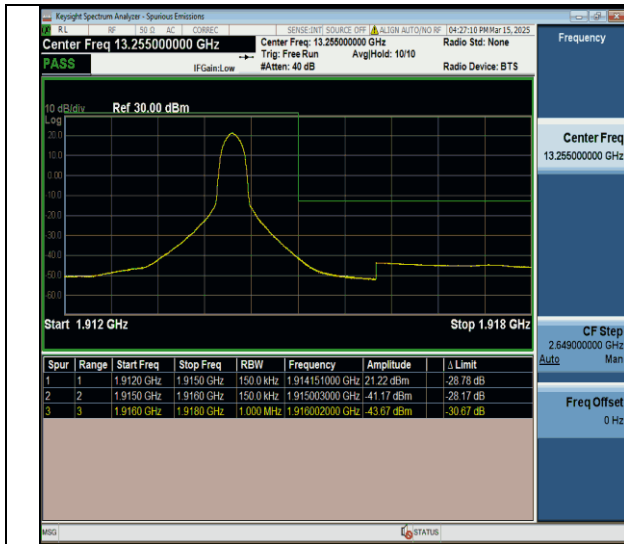
Band25-10MHz-QPSK-26640-50RB#0-PASS



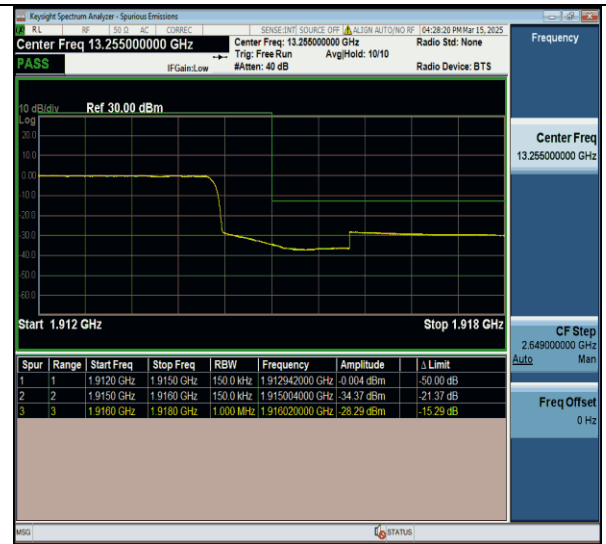
Band25-15MHz-QPSK-26115-1RB#0-PASS



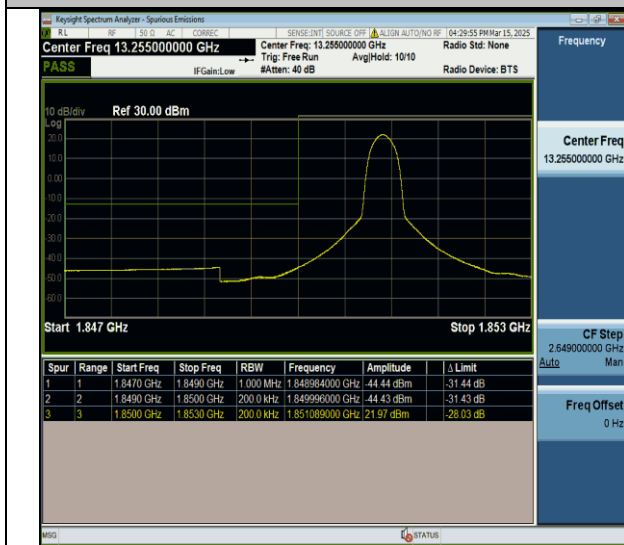
Band25-15MHz-QPSK-26115-75RB#0-PASS



Band25-15MHz-QPSK-26615-1RB#74-PASS



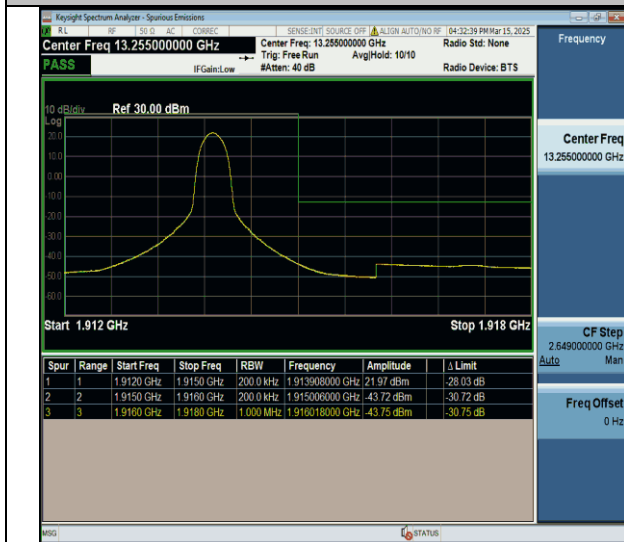
Band25-15MHz-QPSK-26615-75RB#0-PASS



Band25-20MHz-QPSK-26140-1RB#0-PASS



Band25-20MHz-QPSK-26140-100RB#0-PASS



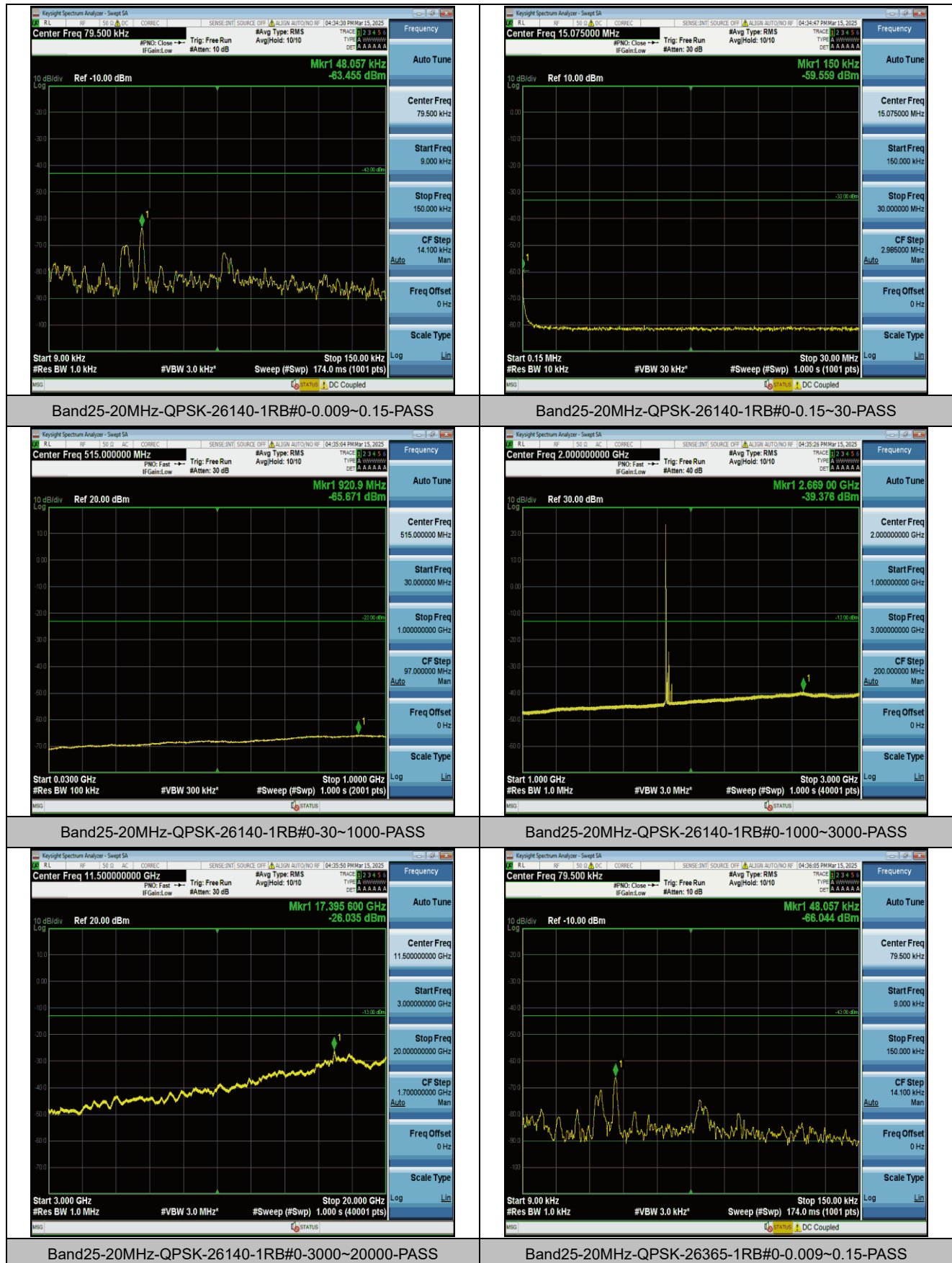
Band25-20MHz-QPSK-26590-1RB#99-PASS

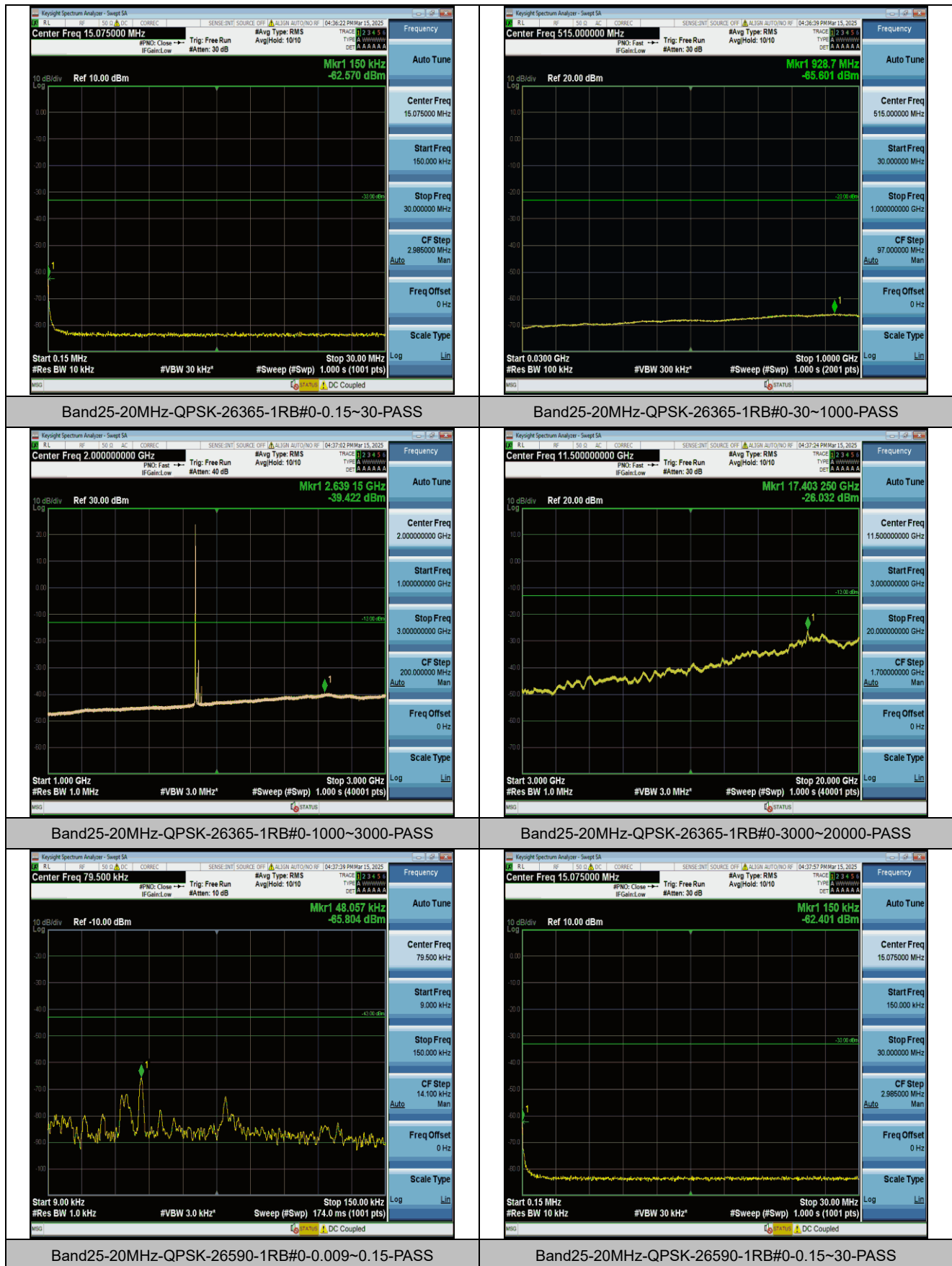


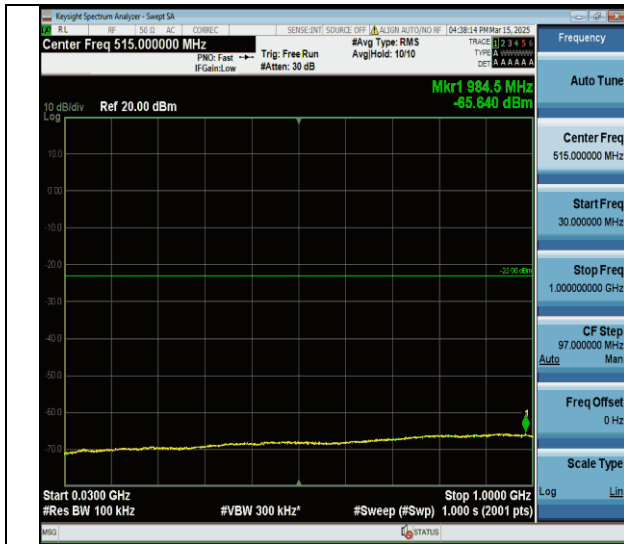
Band25-20MHz-QPSK-26590-100RB#0-PASS

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	-14.00	-0.007437	PASS
Band25	20MHz	QPSK	26365	100RB#0	VL	NT	-2.30	-0.001222	PASS
Band25	20MHz	QPSK	26365	100RB#0	VH	NT	-13.70	-0.007278	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	-12.30	-0.006534	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-20	-3.70	-0.001965	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-10	-10.10	-0.005365	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	0	-5.40	-0.002869	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	10	-5.00	-0.002656	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	20	-6.90	-0.003665	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	30	-6.60	-0.003506	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	40	0.80	0.000425	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	50	-12.50	-0.006640	PASS

~The End~