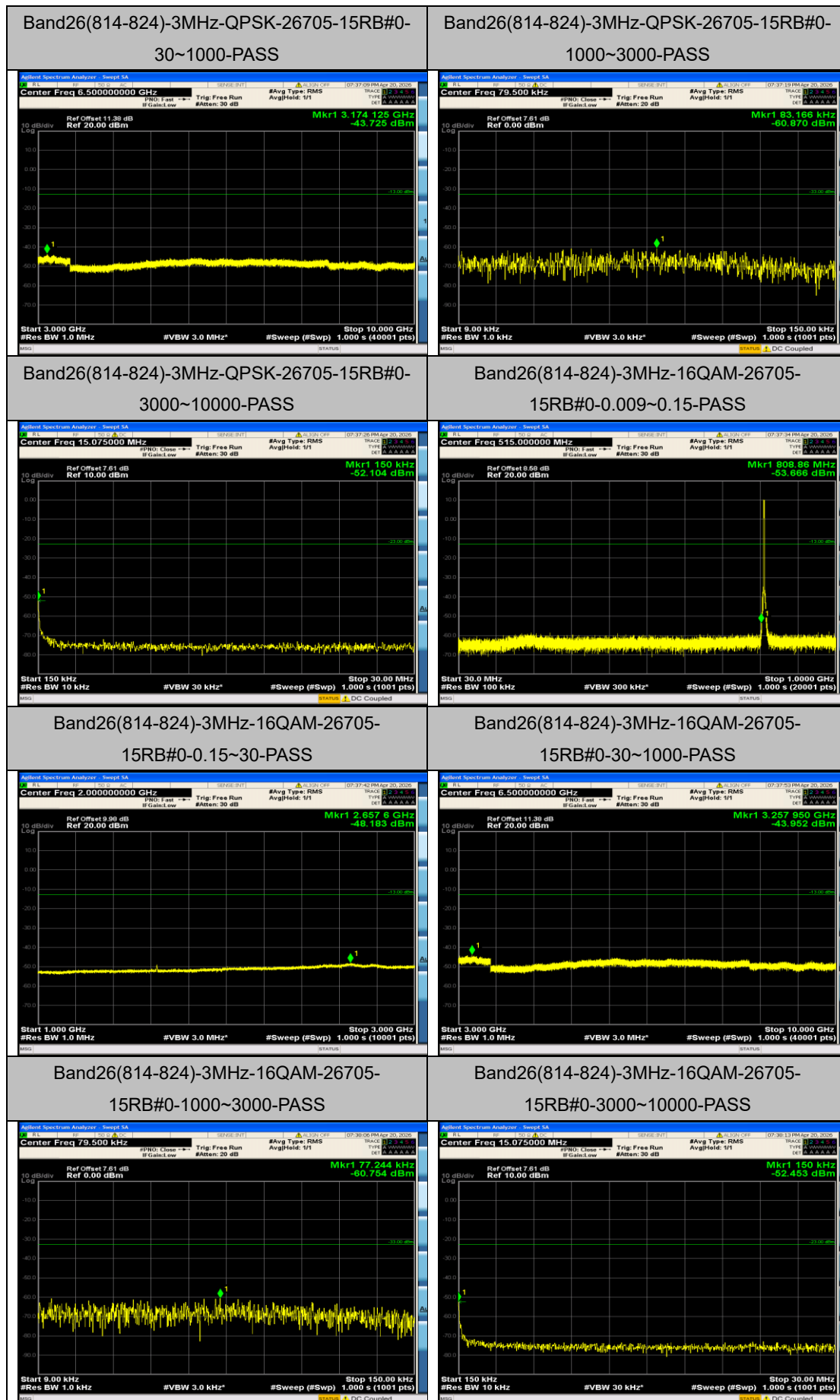
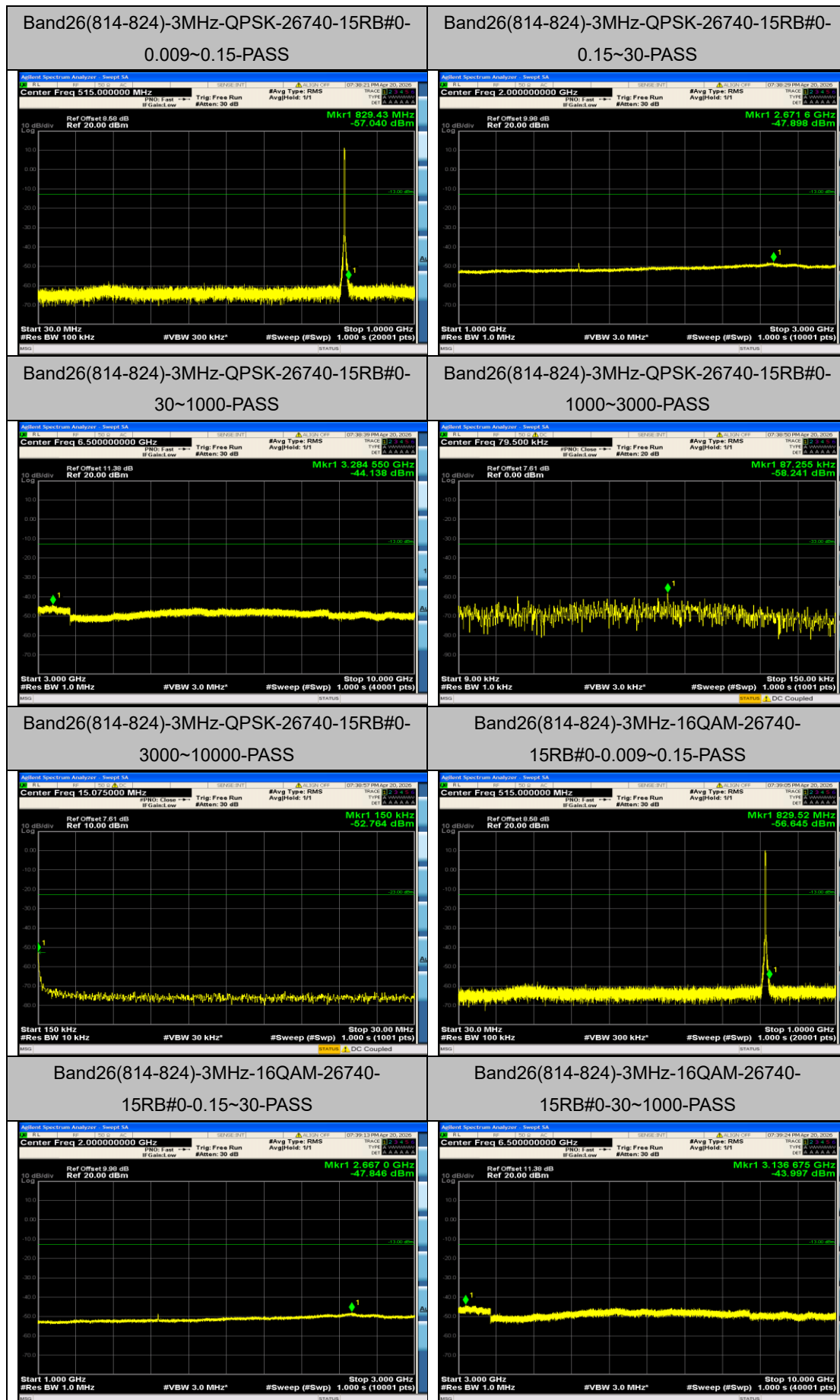
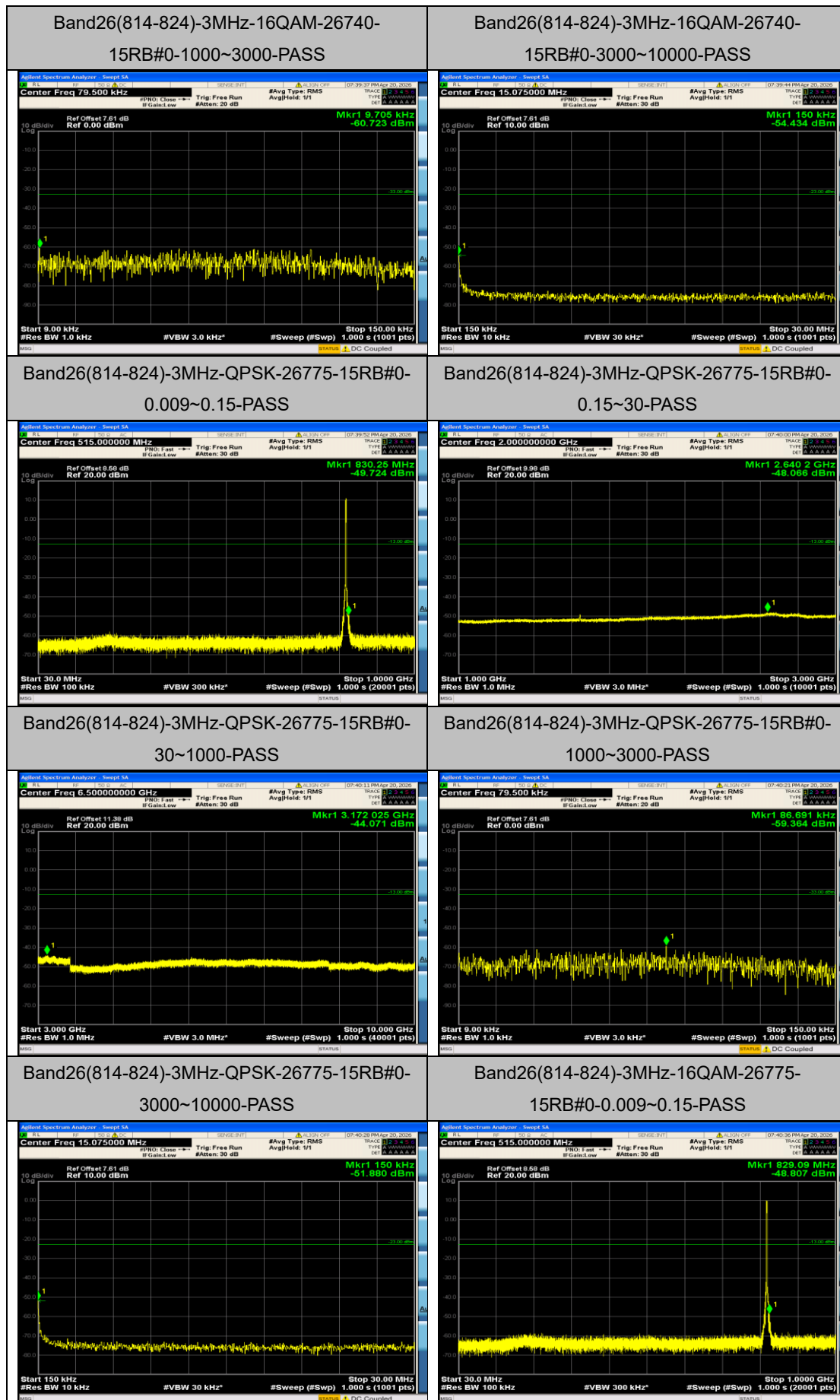
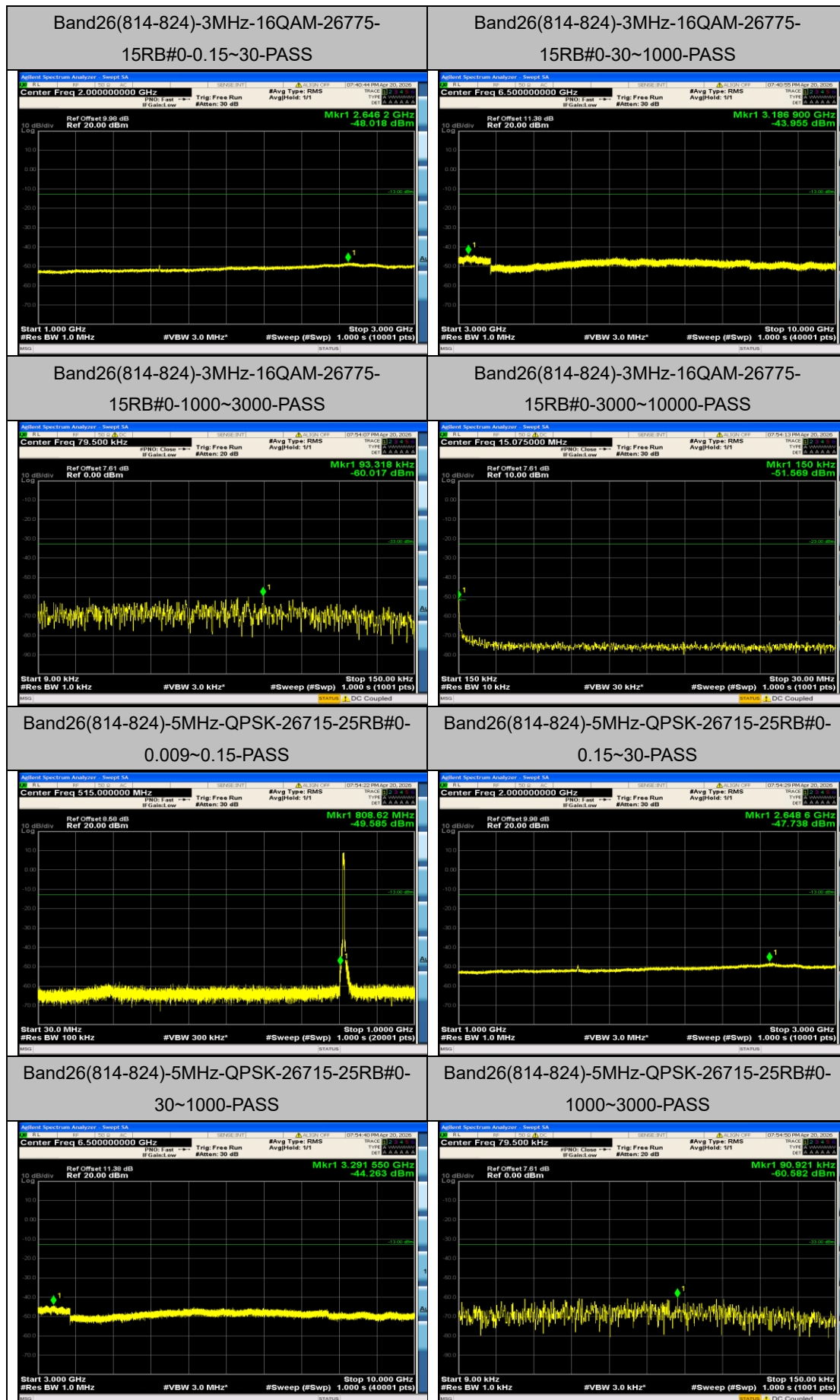
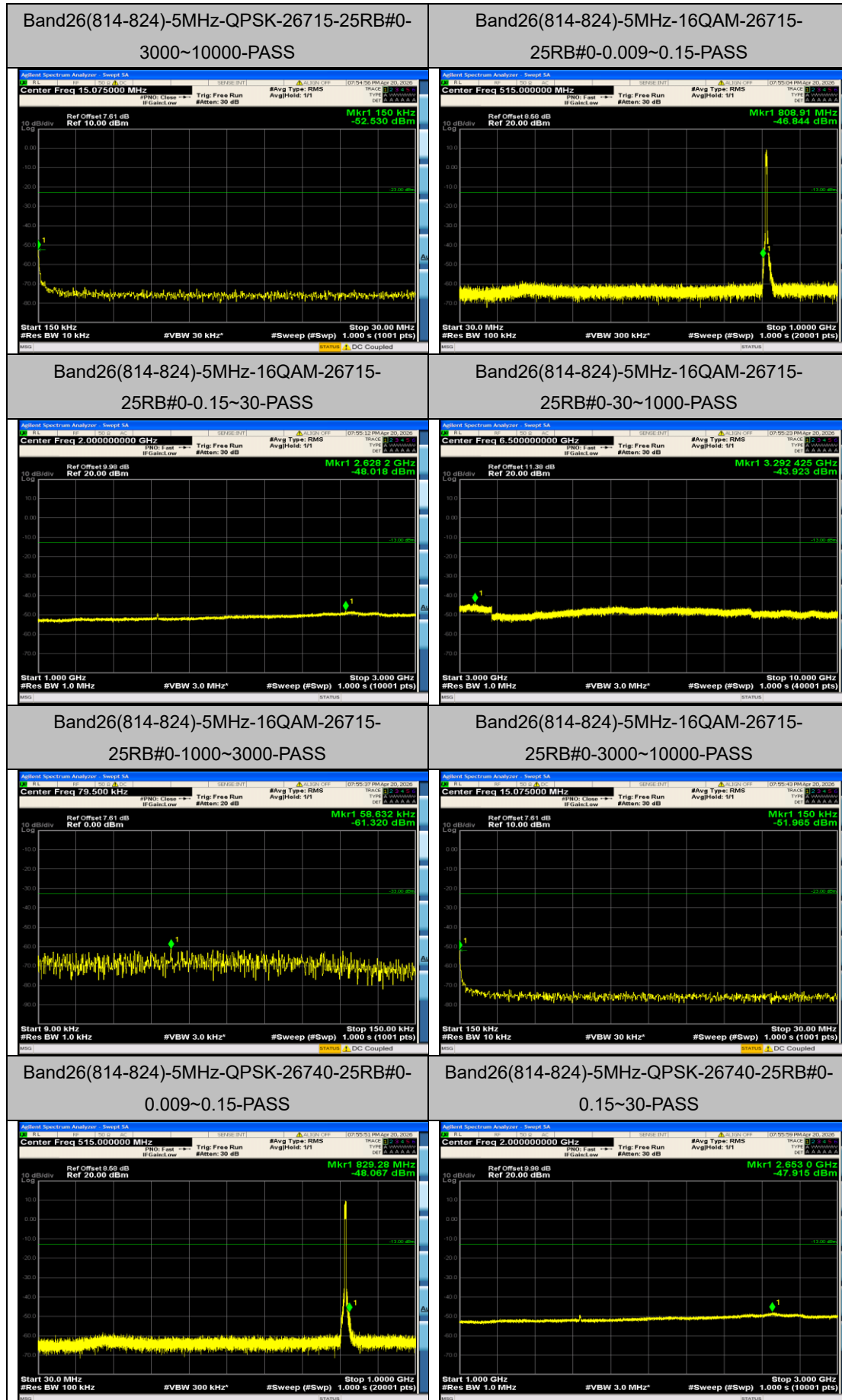


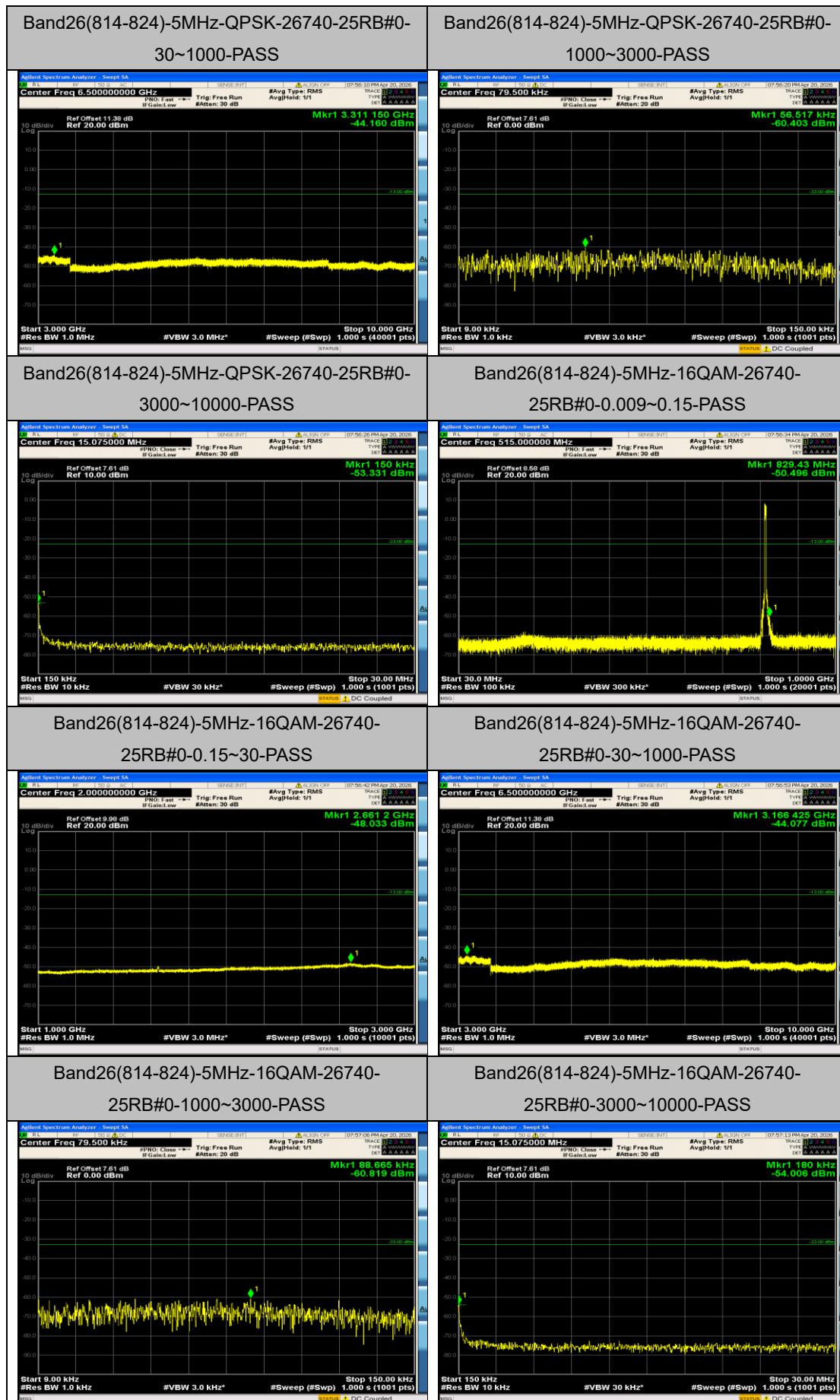


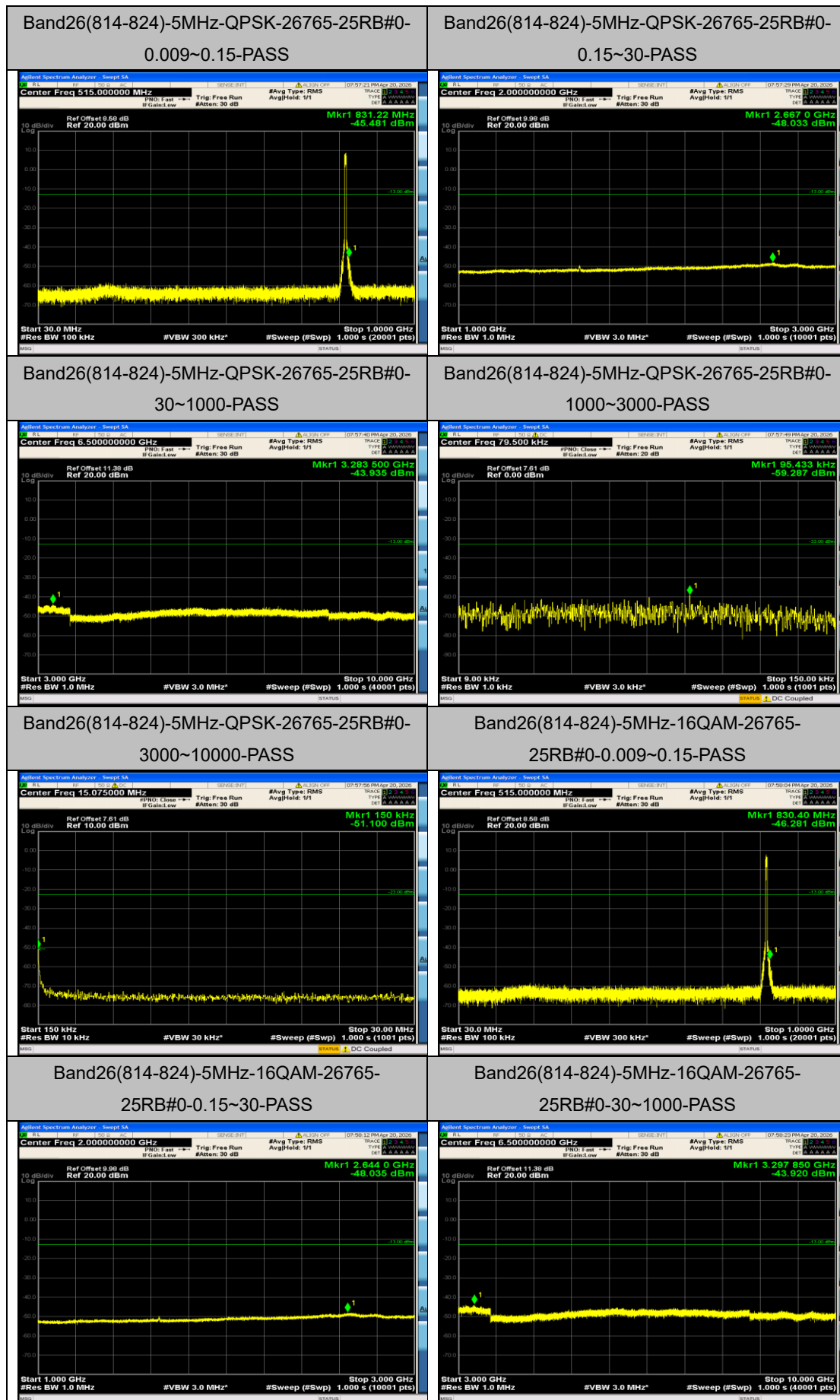


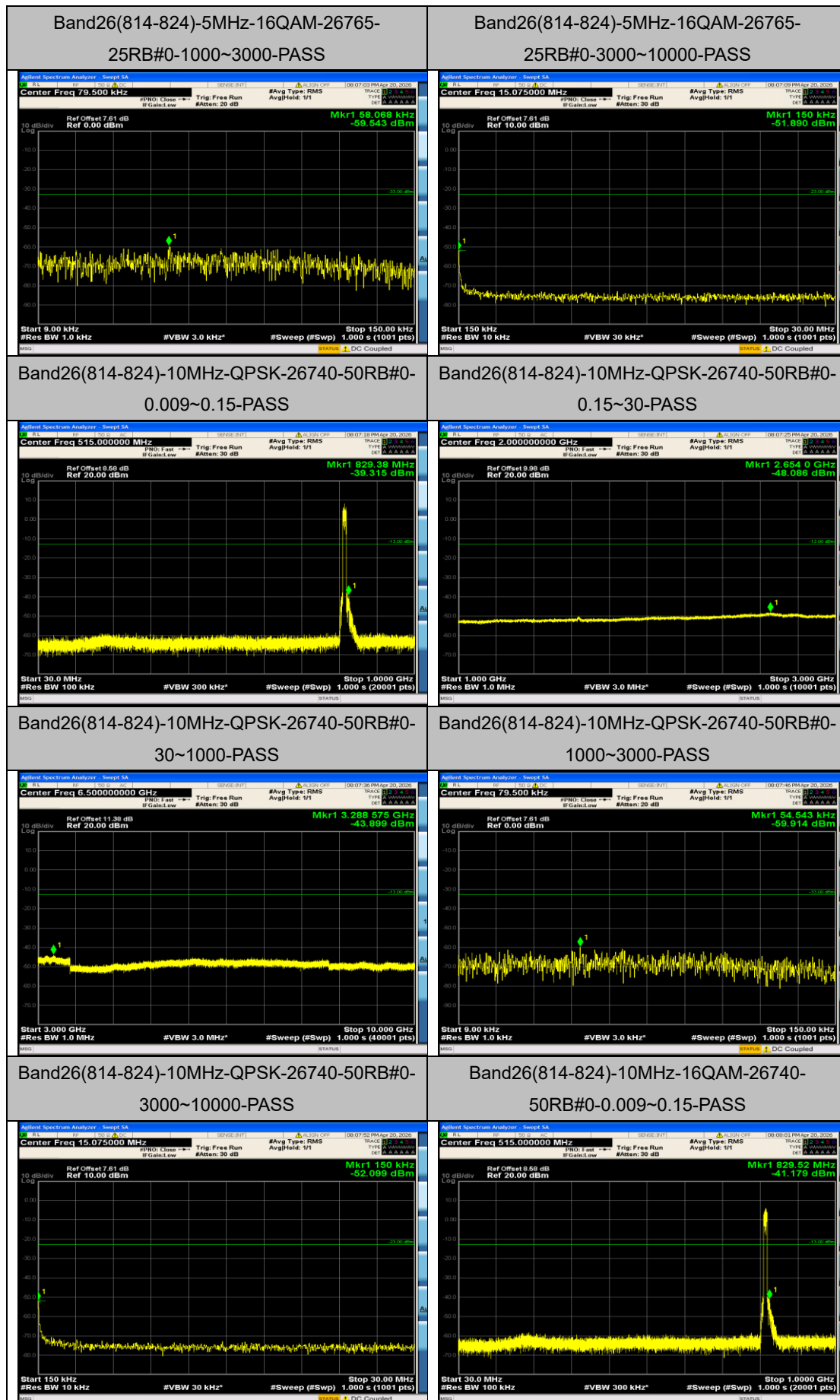


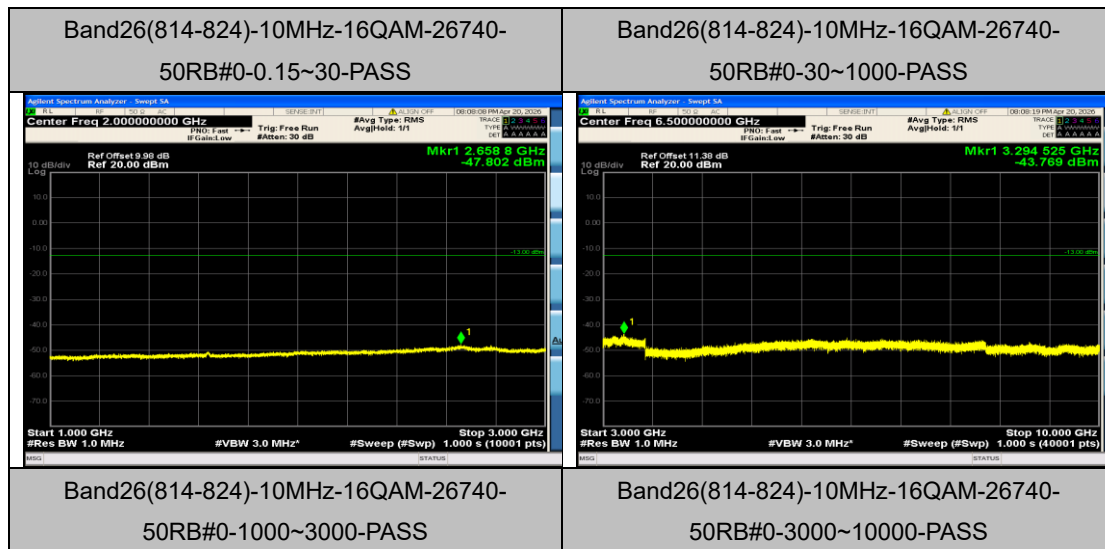












Appendix E: Frequency Stability

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26 (814-824)	1.4MHz	QPSK	26697	6RB#0	NV	-30	-32.77	-0.040223	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26697	6RB#0	NV	-20	-46.31	-0.056843	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26697	6RB#0	NV	-10	-2.93	-0.003596	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26697	6RB#0	NV	0	-12.46	-0.015294	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26697	6RB#0	NV	10	-18.94	-0.023248	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26697	6RB#0	NV	20	-24.86	-0.030514	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26697	6RB#0	NV	30	-29.37	-0.036050	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26697	6RB#0	NV	40	-33.39	-0.040984	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26697	6RB#0	NV	50	-38.92	-0.047772	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26697	6RB#0	NV	-30	-47.28	-0.058034	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26697	6RB#0	NV	-20	-46.48	-0.057052	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26697	6RB#0	NV	-10	-45.95	-0.056401	±2.5	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	NV	0	-46.68	-0.057297	±2.5	PASS

(814-824)										
Band26 (814-824)	1.4MHz	16QAM	26697	6RB#0	NV	10	-48.19	-0.059151	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26697	6RB#0	NV	20	4.94	0.006064	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26697	6RB#0	NV	30	5.25	0.006444	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26697	6RB#0	NV	40	3.85	0.004726	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26697	6RB#0	NV	50	3.19	0.003916	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26740	6RB#0	NV	-30	-20.03	-0.024457	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26740	6RB#0	NV	-20	-31.37	-0.038303	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26740	6RB#0	NV	-10	-42.86	-0.052332	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26740	6RB#0	NV	0	-3.10	-0.003785	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26740	6RB#0	NV	10	-8.83	-0.010781	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26740	6RB#0	NV	20	-12.03	-0.014689	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26740	6RB#0	NV	30	-16.62	-0.020293	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26740	6RB#0	NV	40	-20.94	-0.025568	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26740	6RB#0	NV	50	-24.99	-0.030513	±2.5	PASS

824)										
Band26 (814- 824)	1.4MHz	16QAM	26740	6RB#0	NV	-30	-35.85	-0.043773	±2.5	PASS
Band26 (814- 824)	1.4MHz	16QAM	26740	6RB#0	NV	-20	-33.20	-0.040537	±2.5	PASS
Band26 (814- 824)	1.4MHz	16QAM	26740	6RB#0	NV	-10	-33.66	-0.041099	±2.5	PASS
Band26 (814- 824)	1.4MHz	16QAM	26740	6RB#0	NV	0	-36.41	-0.044457	±2.5	PASS
Band26 (814- 824)	1.4MHz	16QAM	26740	6RB#0	NV	10	-36.13	-0.044115	±2.5	PASS
Band26 (814- 824)	1.4MHz	16QAM	26740	6RB#0	NV	20	-36.54	-0.044615	±2.5	PASS
Band26 (814- 824)	1.4MHz	16QAM	26740	6RB#0	NV	30	-37.32	-0.045568	±2.5	PASS
Band26 (814- 824)	1.4MHz	16QAM	26740	6RB#0	NV	40	-38.67	-0.047216	±2.5	PASS
Band26 (814- 824)	1.4MHz	16QAM	26740	6RB#0	NV	50	-38.84	-0.047424	±2.5	PASS
Band26 (814- 824)	1.4MHz	QPSK	26783	6RB#0	NV	-30	-11.43	-0.013883	±2.5	PASS
Band26 (814- 824)	1.4MHz	QPSK	26783	6RB#0	NV	-20	-21.37	-0.025957	±2.5	PASS
Band26 (814- 824)	1.4MHz	QPSK	26783	6RB#0	NV	-10	-35.15	-0.042694	±2.5	PASS
Band26 (814- 824)	1.4MHz	QPSK	26783	6RB#0	NV	0	-41.34	-0.050213	±2.5	PASS
Band26 (814- 824)	1.4MHz	QPSK	26783	6RB#0	NV	10	-2.27	-0.002757	±2.5	PASS

Band26 (814-824)	1.4MHz	QPSK	26783	6RB#0	NV	20	-5.46	-0.006632	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26783	6RB#0	NV	30	-13.20	-0.016033	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26783	6RB#0	NV	40	-13.70	-0.016640	±2.5	PASS
Band26 (814-824)	1.4MHz	QPSK	26783	6RB#0	NV	50	-18.04	-0.021912	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26783	6RB#0	NV	-30	-32.84	-0.039888	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26783	6RB#0	NV	-20	-29.88	-0.036293	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26783	6RB#0	NV	-10	-33.36	-0.040520	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26783	6RB#0	NV	0	-31.70	-0.038504	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26783	6RB#0	NV	10	-35.96	-0.043678	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26783	6RB#0	NV	20	-36.01	-0.043739	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26783	6RB#0	NV	30	-37.68	-0.045767	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26783	6RB#0	NV	40	-38.17	-0.046362	±2.5	PASS
Band26 (814-824)	1.4MHz	16QAM	26783	6RB#0	NV	50	-38.90	-0.047249	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26705	15RB#0	NV	-30	6.61	0.008105	±2.5	PASS
Band26	3MHz	QPSK	26705	15RB#0	NV	-20	3.60	0.004414	±2.5	PASS

(814-824)										
Band26 (814-824)	3MHz	QPSK	26705	15RB#0	NV	-10	-2.96	-0.003630	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26705	15RB#0	NV	0	-5.62	-0.006891	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26705	15RB#0	NV	10	-7.98	-0.009785	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26705	15RB#0	NV	20	-6.87	-0.008424	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26705	15RB#0	NV	30	-10.57	-0.012961	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26705	15RB#0	NV	40	-11.29	-0.013844	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26705	15RB#0	NV	50	-12.19	-0.014948	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26705	15RB#0	NV	-30	-18.04	-0.022121	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26705	15RB#0	NV	-20	-17.92	-0.021974	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26705	15RB#0	NV	-10	-20.83	-0.025543	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26705	15RB#0	NV	0	-19.68	-0.024132	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26705	15RB#0	NV	10	-21.01	-0.025763	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26705	15RB#0	NV	20	-20.84	-0.025555	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26705	15RB#0	NV	30	-21.14	-0.025923	±2.5	PASS

824)										
Band26 (814- 824)	3MHz	16QAM	26705	15RB#0	NV	40	-22.12	-0.027124	±2.5	PASS
Band26 (814- 824)	3MHz	16QAM	26705	15RB#0	NV	50	-21.26	-0.026070	±2.5	PASS
Band26 (814- 824)	3MHz	QPSK	26740	15RB#0	NV	-30	8.70	0.010623	±2.5	PASS
Band26 (814- 824)	3MHz	QPSK	26740	15RB#0	NV	-20	7.84	0.009573	±2.5	PASS
Band26 (814- 824)	3MHz	QPSK	26740	15RB#0	NV	-10	8.34	0.010183	±2.5	PASS
Band26 (814- 824)	3MHz	QPSK	26740	15RB#0	NV	0	7.28	0.008889	±2.5	PASS
Band26 (814- 824)	3MHz	QPSK	26740	15RB#0	NV	10	4.58	0.005592	±2.5	PASS
Band26 (814- 824)	3MHz	QPSK	26740	15RB#0	NV	20	8.54	0.010427	±2.5	PASS
Band26 (814- 824)	3MHz	QPSK	26740	15RB#0	NV	30	3.56	0.004347	±2.5	PASS
Band26 (814- 824)	3MHz	QPSK	26740	15RB#0	NV	40	-4.94	-0.006032	±2.5	PASS
Band26 (814- 824)	3MHz	QPSK	26740	15RB#0	NV	50	-5.15	-0.006288	±2.5	PASS
Band26 (814- 824)	3MHz	16QAM	26740	15RB#0	NV	-30	-11.90	-0.014530	±2.5	PASS
Band26 (814- 824)	3MHz	16QAM	26740	15RB#0	NV	-20	-9.48	-0.011575	±2.5	PASS
Band26 (814- 824)	3MHz	16QAM	26740	15RB#0	NV	-10	-11.52	-0.014066	±2.5	PASS

Band26 (814-824)	3MHz	16QAM	26740	15RB#0	NV	0	-10.44	-0.012747	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26740	15RB#0	NV	10	-11.60	-0.014164	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26740	15RB#0	NV	20	-11.66	-0.014237	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26740	15RB#0	NV	30	-14.81	-0.018083	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26740	15RB#0	NV	40	-12.03	-0.014689	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26740	15RB#0	NV	50	-14.95	-0.018254	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26775	15RB#0	NV	-30	5.71	0.006942	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26775	15RB#0	NV	-20	7.18	0.008729	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26775	15RB#0	NV	-10	6.17	0.007502	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26775	15RB#0	NV	0	3.85	0.004681	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26775	15RB#0	NV	10	-3.81	-0.004632	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26775	15RB#0	NV	20	-3.00	-0.003647	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26775	15RB#0	NV	30	-4.98	-0.006055	±2.5	PASS
Band26 (814-824)	3MHz	QPSK	26775	15RB#0	NV	40	-11.23	-0.013653	±2.5	PASS
Band26	3MHz	QPSK	26775	15RB#0	NV	50	-8.74	-0.010626	±2.5	PASS

(814-824)										
Band26 (814-824)	3MHz	16QAM	26775	15RB#0	NV	-30	-15.58	-0.018942	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26775	15RB#0	NV	-20	-16.62	-0.020207	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26775	15RB#0	NV	-10	-15.78	-0.019185	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26775	15RB#0	NV	0	-18.24	-0.022176	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26775	15RB#0	NV	10	-16.18	-0.019672	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26775	15RB#0	NV	20	-19.98	-0.024292	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26775	15RB#0	NV	30	-18.25	-0.022188	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26775	15RB#0	NV	40	-15.16	-0.018432	±2.5	PASS
Band26 (814-824)	3MHz	16QAM	26775	15RB#0	NV	50	-17.31	-0.021046	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26715	25RB#0	NV	-30	12.22	0.014966	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26715	25RB#0	NV	-20	16.22	0.019865	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26715	25RB#0	NV	-10	12.27	0.015028	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26715	25RB#0	NV	0	10.94	0.013399	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26715	25RB#0	NV	10	9.28	0.011366	±2.5	PASS

824)										
Band26 (814- 824)	5MHz	QPSK	26715	25RB#0	NV	20	8.43	0.010325	±2.5	PASS
Band26 (814- 824)	5MHz	QPSK	26715	25RB#0	NV	30	6.12	0.007495	±2.5	PASS
Band26 (814- 824)	5MHz	QPSK	26715	25RB#0	NV	40	6.79	0.008316	±2.5	PASS
Band26 (814- 824)	5MHz	QPSK	26715	25RB#0	NV	50	5.48	0.006712	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26715	25RB#0	NV	-30	-5.06	-0.006197	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26715	25RB#0	NV	-20	-3.28	-0.004017	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26715	25RB#0	NV	-10	-5.22	-0.006393	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26715	25RB#0	NV	0	-6.48	-0.007936	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26715	25RB#0	NV	10	-6.62	-0.008108	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26715	25RB#0	NV	20	-6.19	-0.007581	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26715	25RB#0	NV	30	-4.62	-0.005658	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26715	25RB#0	NV	40	-6.21	-0.007606	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26715	25RB#0	NV	50	-5.69	-0.006969	±2.5	PASS
Band26 (814- 824)	5MHz	QPSK	26740	25RB#0	NV	-30	11.16	0.013626	±2.5	PASS

Band26 (814-824)	5MHz	QPSK	26740	25RB#0	NV	-20	9.28	0.011331	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26740	25RB#0	NV	-10	11.24	0.013724	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26740	25RB#0	NV	0	11.20	0.013675	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26740	25RB#0	NV	10	10.74	0.013114	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26740	25RB#0	NV	20	11.97	0.014615	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26740	25RB#0	NV	30	11.99	0.014640	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26740	25RB#0	NV	40	12.45	0.015201	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26740	25RB#0	NV	50	12.33	0.015055	±2.5	PASS
Band26 (814-824)	5MHz	16QAM	26740	25RB#0	NV	-30	5.91	0.007216	±2.5	PASS
Band26 (814-824)	5MHz	16QAM	26740	25RB#0	NV	-20	6.74	0.008230	±2.5	PASS
Band26 (814-824)	5MHz	16QAM	26740	25RB#0	NV	-10	4.43	0.005409	±2.5	PASS
Band26 (814-824)	5MHz	16QAM	26740	25RB#0	NV	0	5.39	0.006581	±2.5	PASS
Band26 (814-824)	5MHz	16QAM	26740	25RB#0	NV	10	4.68	0.005714	±2.5	PASS
Band26 (814-824)	5MHz	16QAM	26740	25RB#0	NV	20	5.35	0.006532	±2.5	PASS
Band26	5MHz	16QAM	26740	25RB#0	NV	30	4.88	0.005958	±2.5	PASS

(814-824)										
Band26 (814-824)	5MHz	16QAM	26740	25RB#0	NV	40	3.98	0.004860	±2.5	PASS
Band26 (814-824)	5MHz	16QAM	26740	25RB#0	NV	50	4.16	0.005079	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26765	25RB#0	NV	-30	5.34	0.006500	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26765	25RB#0	NV	-20	6.17	0.007511	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26765	25RB#0	NV	-10	7.47	0.009093	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26765	25RB#0	NV	0	9.80	0.011929	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26765	25RB#0	NV	10	10.53	0.012818	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26765	25RB#0	NV	20	11.32	0.013780	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26765	25RB#0	NV	30	9.54	0.011613	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26765	25RB#0	NV	40	10.66	0.012976	±2.5	PASS
Band26 (814-824)	5MHz	QPSK	26765	25RB#0	NV	50	9.96	0.012124	±2.5	PASS
Band26 (814-824)	5MHz	16QAM	26765	25RB#0	NV	-30	6.45	0.007851	±2.5	PASS
Band26 (814-824)	5MHz	16QAM	26765	25RB#0	NV	-20	3.28	0.003993	±2.5	PASS
Band26 (814-824)	5MHz	16QAM	26765	25RB#0	NV	-10	2.85	0.003469	±2.5	PASS

824)										
Band26 (814- 824)	5MHz	16QAM	26765	25RB#0	NV	0	5.25	0.006391	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26765	25RB#0	NV	10	4.06	0.004942	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26765	25RB#0	NV	20	2.59	0.003153	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26765	25RB#0	NV	30	5.78	0.007036	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26765	25RB#0	NV	40	2.90	0.003530	±2.5	PASS
Band26 (814- 824)	5MHz	16QAM	26765	25RB#0	NV	50	4.41	0.005368	±2.5	PASS
Band26 (814- 824)	10MHz	QPSK	26740	50RB#0	NV	-30	7.67	0.009365	±2.5	PASS
Band26 (814- 824)	10MHz	QPSK	26740	50RB#0	NV	-20	7.87	0.009609	±2.5	PASS
Band26 (814- 824)	10MHz	QPSK	26740	50RB#0	NV	-10	9.70	0.011844	±2.5	PASS
Band26 (814- 824)	10MHz	QPSK	26740	50RB#0	NV	0	9.06	0.011062	±2.5	PASS
Band26 (814- 824)	10MHz	QPSK	26740	50RB#0	NV	10	6.88	0.008400	±2.5	PASS
Band26 (814- 824)	10MHz	QPSK	26740	50RB#0	NV	20	6.69	0.008168	±2.5	PASS
Band26 (814- 824)	10MHz	QPSK	26740	50RB#0	NV	30	8.94	0.010916	±2.5	PASS
Band26 (814- 824)	10MHz	QPSK	26740	50RB#0	NV	40	12.19	0.014884	±2.5	PASS

Band26 (814-824)	10MHz	QPSK	26740	50RB#0	NV	50	6.57	0.008022	±2.5	PASS
Band26 (814-824)	10MHz	16QAM	26740	50RB#0	NV	-30	4.69	0.005726	±2.5	PASS
Band26 (814-824)	10MHz	16QAM	26740	50RB#0	NV	-20	2.59	0.003162	±2.5	PASS
Band26 (814-824)	10MHz	16QAM	26740	50RB#0	NV	-10	-1.66	-0.002027	±2.5	PASS
Band26 (814-824)	10MHz	16QAM	26740	50RB#0	NV	0	-2.89	-0.003529	±2.5	PASS
Band26 (814-824)	10MHz	16QAM	26740	50RB#0	NV	10	-3.33	-0.004066	±2.5	PASS
Band26 (814-824)	10MHz	16QAM	26740	50RB#0	NV	20	-2.19	-0.002674	±2.5	PASS
Band26 (814-824)	10MHz	16QAM	26740	50RB#0	NV	30	-2.62	-0.003199	±2.5	PASS
Band26 (814-824)	10MHz	16QAM	26740	50RB#0	NV	40	-2.33	-0.002845	±2.5	PASS
Band26 (814-824)	10MHz	16QAM	26740	50RB#0	NV	50	3.32	0.004054	±2.5	PASS