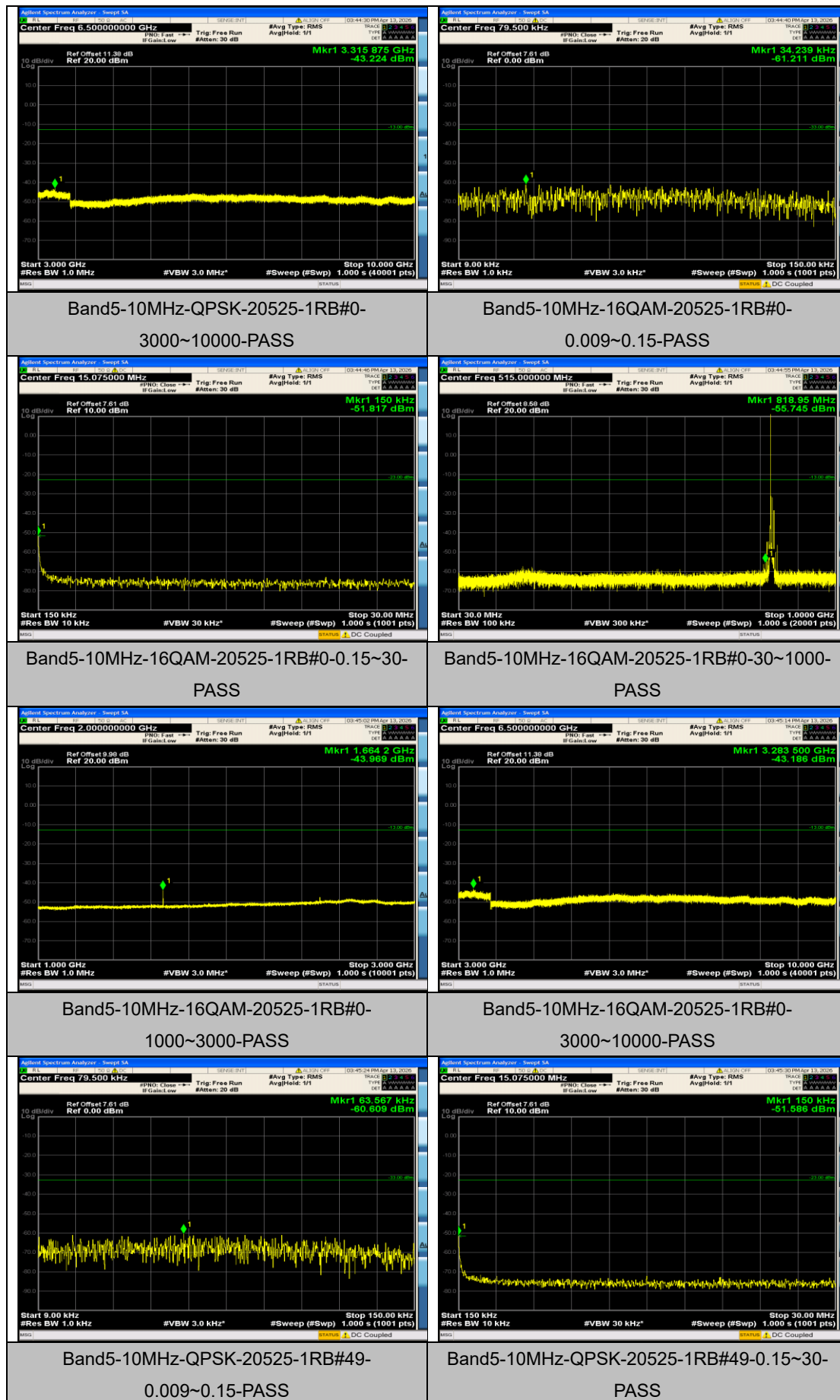
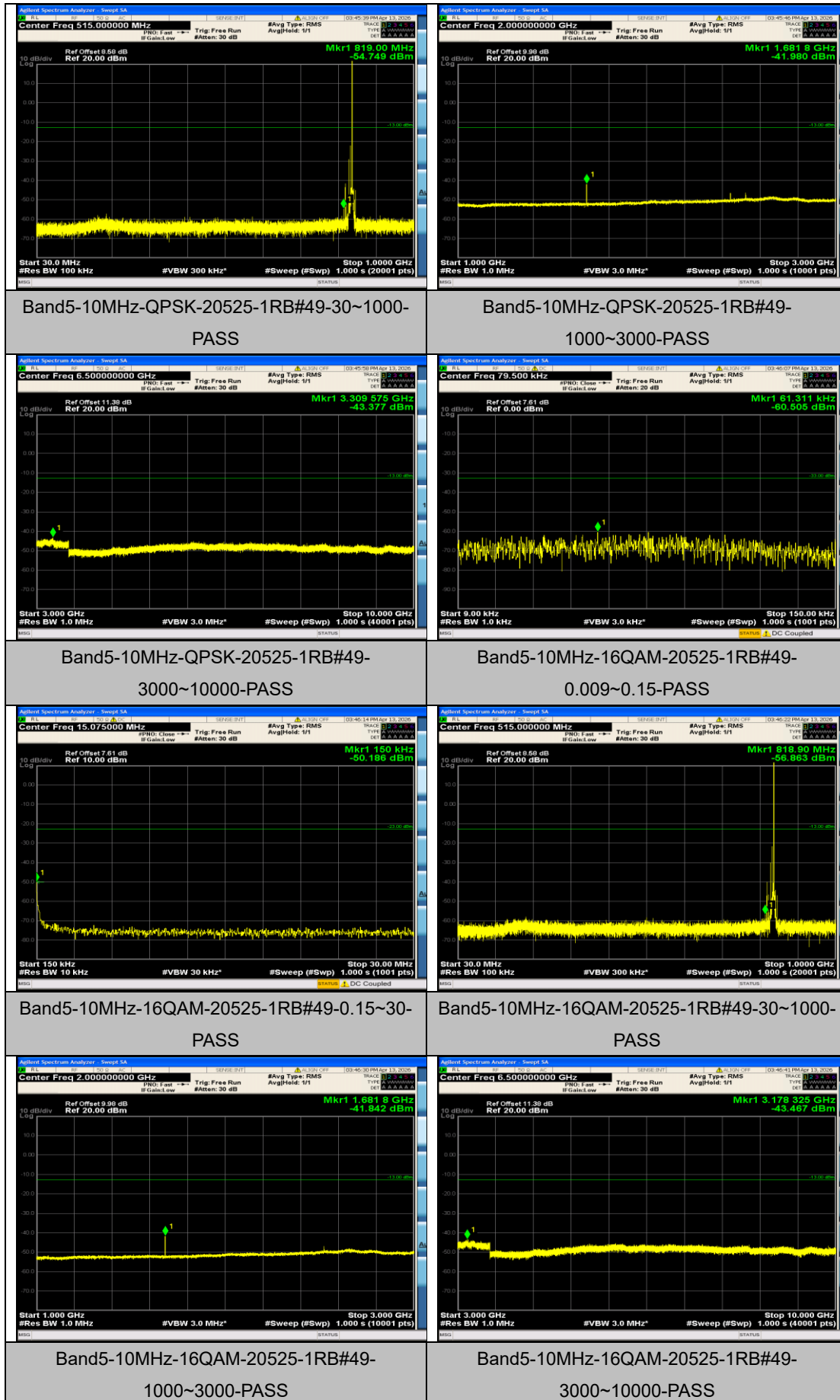
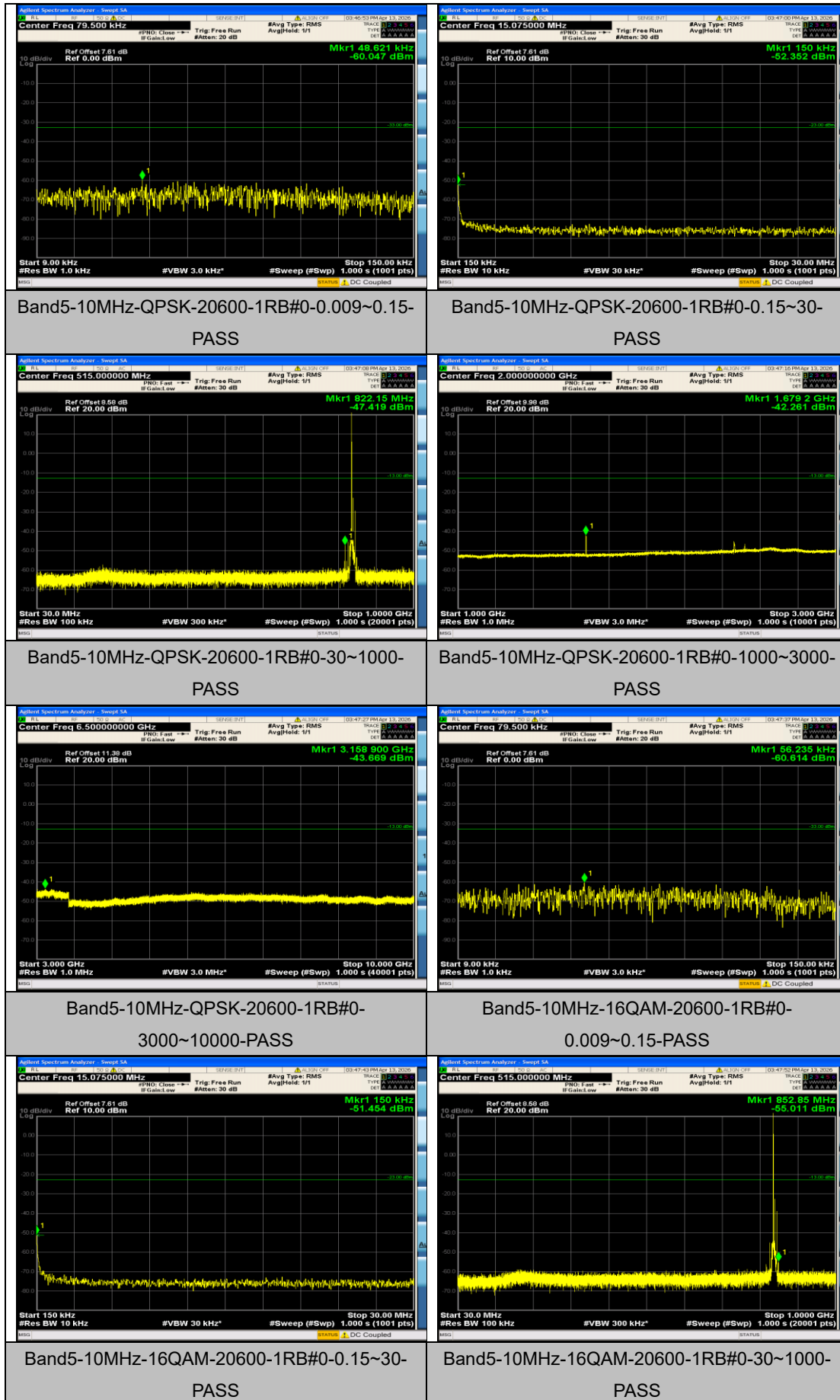
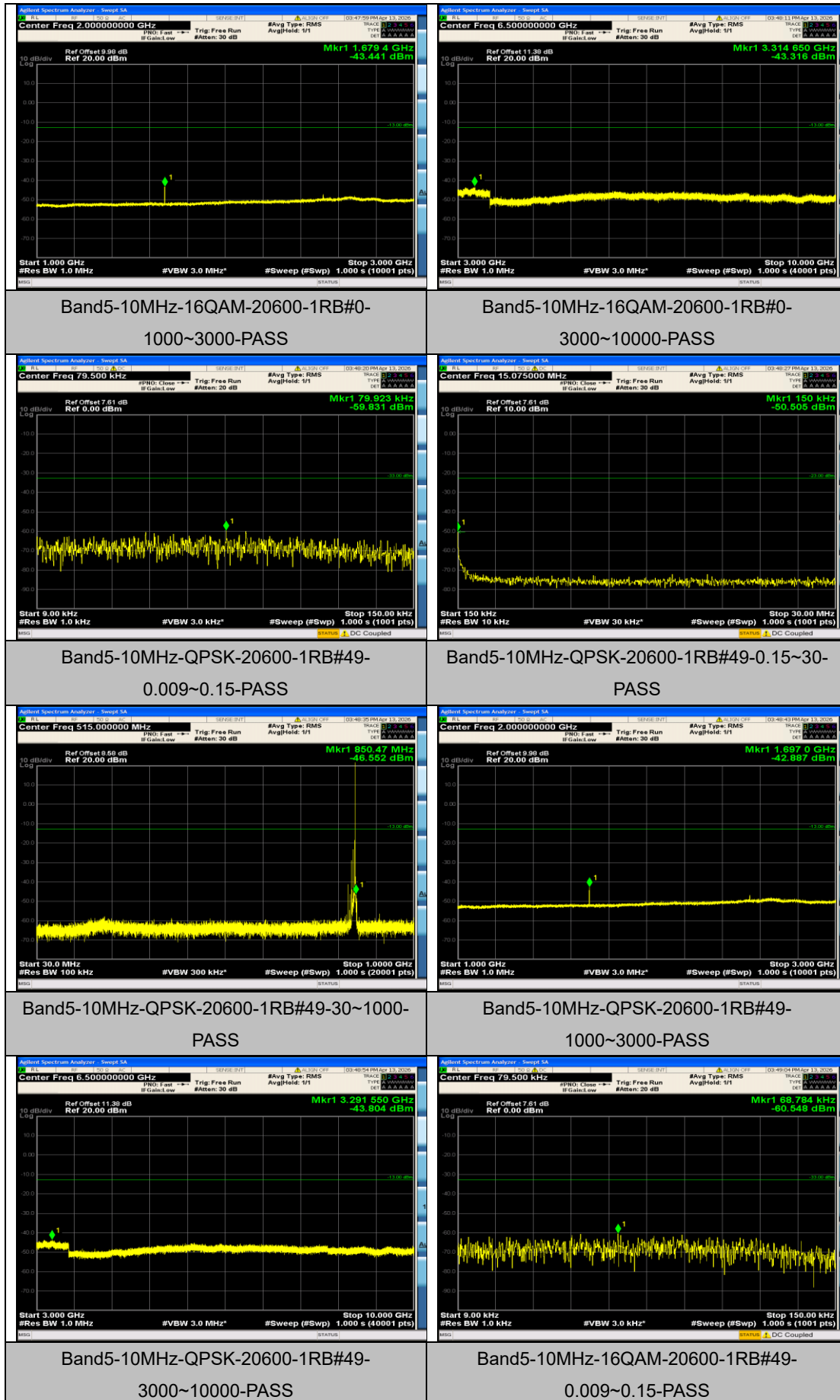
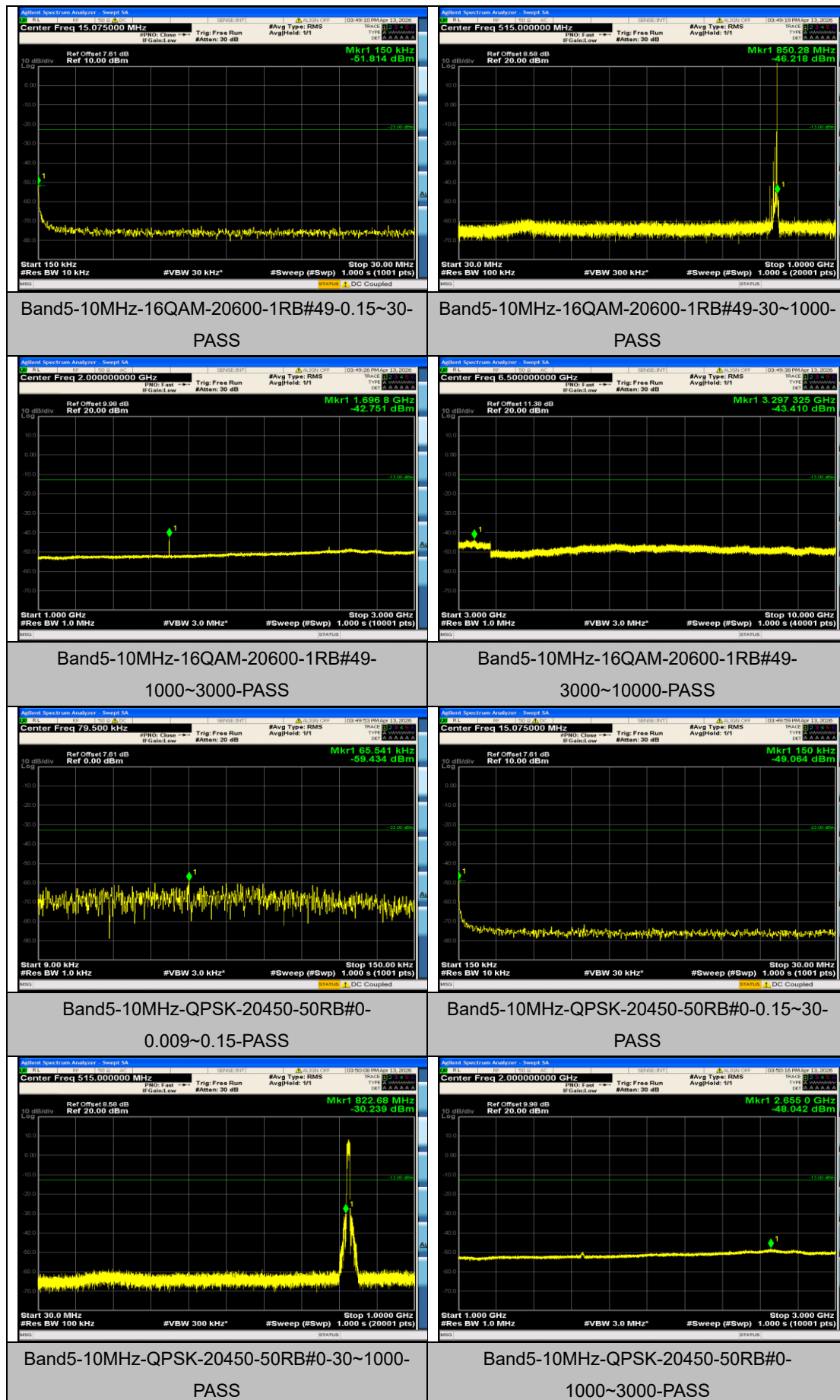


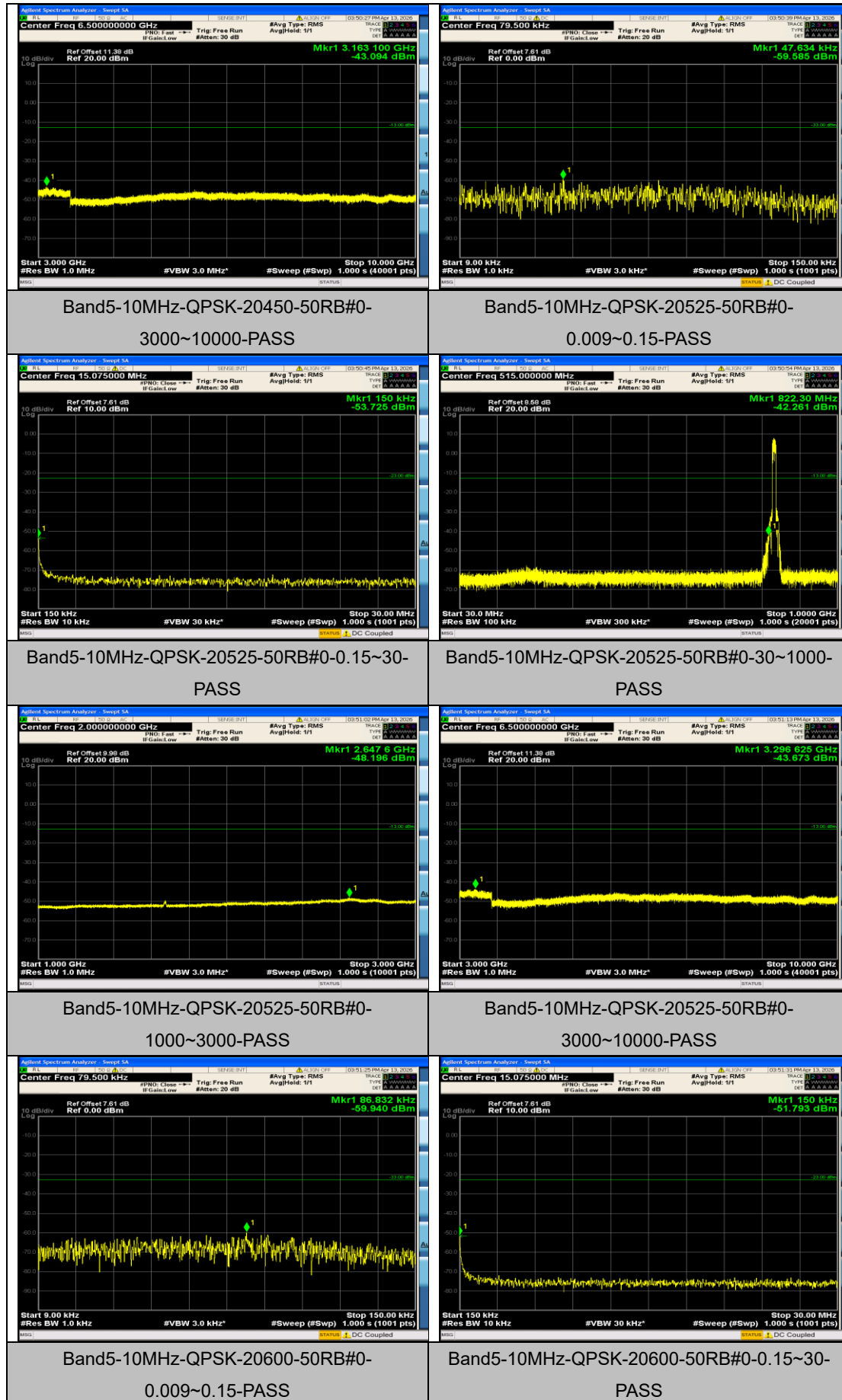


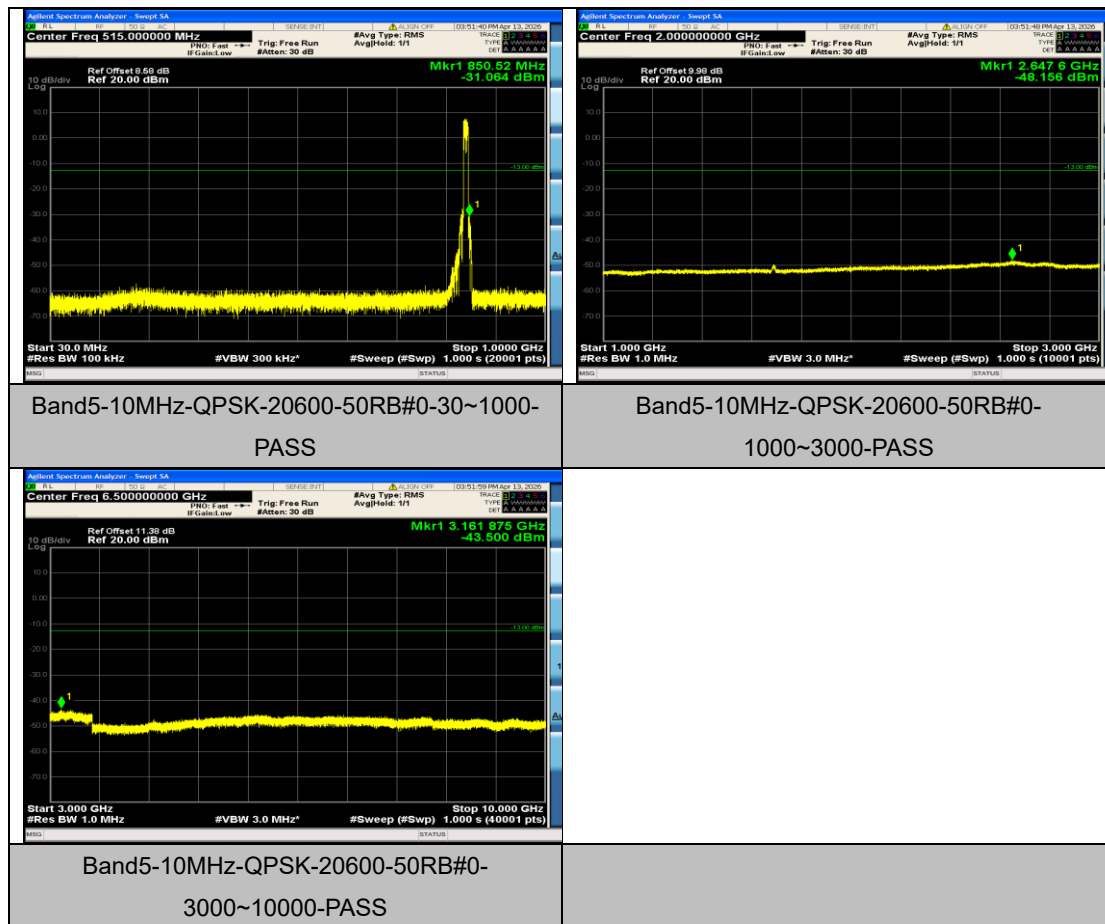












Appendix F: Frequency Stability

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	-11.72	-0.014211	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-18.01	-0.021838	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-10	-15.59	-0.018904	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	-16.61	-0.020141	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	-14.38	-0.017437	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-11.57	-0.014029	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	30	-9.34	-0.011325	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	40	-9.30	-0.011277	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	50	-7.37	-0.008937	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	-3.81	-0.004620	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	-2.68	-0.003250	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-10	-3.06	-0.003710	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	-2.80	-0.003395	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	2.19	0.002656	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	1.86	0.002255	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	30	2.57	0.003116	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	40	-1.89	-0.002292	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	50	-3.20	-0.003880	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	10.19	0.012182	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	9.56	0.011429	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-10	5.92	0.007077	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	4.66	0.005571	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	3.88	0.004638	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	2.82	0.003371	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	3.58	0.004280	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	2.55	0.003048	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	4.26	0.005093	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	2.60	0.003108	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	2.78	0.003323	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-10	-1.76	-0.002104	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	-4.13	-0.004937	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-4.23	-0.005057	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-1.92	-0.002295	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	30	-3.03	-0.003622	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	40	-2.22	-0.002654	±2.5	PASS

Band5	1.4MHz	16QAM	20525	6RB#0	NV	50	-4.08	-0.004877	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	5.09	0.006000	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	4.08	0.004810	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-10	2.59	0.003053	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	-2.57	-0.003030	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	3.79	0.004468	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	-2.49	-0.002935	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	30	-1.77	-0.002087	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	40	2.65	0.003124	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	50	-2.00	-0.002358	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	-4.46	-0.005258	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	-4.16	-0.004904	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-10	1.70	0.002004	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	2.70	0.003183	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	2.27	0.002676	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	-2.05	-0.002417	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	30	-4.31	-0.005081	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	40	-3.76	-0.004432	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	50	-3.13	-0.003690	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	3.38	0.004094	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	2.26	0.002738	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-10	2.56	0.003101	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	1.90	0.002302	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	4.12	0.004991	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	3.85	0.004664	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	30	2.86	0.003465	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	40	1.87	0.002265	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	50	3.36	0.004070	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	5.34	0.006469	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	3.86	0.004676	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-10	3.65	0.004422	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	3.75	0.004543	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	4.52	0.005475	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	3.18	0.003852	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	30	2.42	0.002932	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	40	3.98	0.004821	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	50	4.06	0.004918	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	3.58	0.004280	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	1.75	0.002092	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-10	1.62	0.001937	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	3.93	0.004698	±2.5	PASS

Band5	3MHz	QPSK	20525	15RB#0	NV	10	1.46	0.001745	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	3.18	0.003802	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	30	3.63	0.004340	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	2.86	0.003419	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	2.99	0.003574	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	3.42	0.004088	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	4.94	0.005906	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-10	4.62	0.005523	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	3.75	0.004483	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	4.33	0.005176	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	5.06	0.006049	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	30	5.99	0.007161	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	40	3.23	0.003861	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	50	4.48	0.005356	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	2.98	0.003516	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	-2.10	-0.002478	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-10	2.25	0.002655	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	3.22	0.003799	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	3.43	0.004047	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	2.53	0.002985	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	30	3.08	0.003634	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	40	3.22	0.003799	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	50	4.71	0.005558	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	2.40	0.002832	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	4.41	0.005204	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-10	2.36	0.002785	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	3.71	0.004378	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	3.32	0.003917	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	2.90	0.003422	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	30	3.03	0.003575	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	40	2.79	0.003292	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	50	3.60	0.004248	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	-1.62	-0.001960	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	-1.40	-0.001694	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-10	-3.59	-0.004344	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	-4.15	-0.005021	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	-3.05	-0.003690	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	-2.90	-0.003509	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	30	-3.81	-0.004610	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	40	2.50	0.003025	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	50	-3.82	-0.004622	±2.5	PASS

Band5	5MHz	16QAM	20425	25RB#0	NV	-30	-2.70	-0.003267	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	-3.08	-0.003727	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-10	-2.47	-0.002989	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-1.75	-0.002117	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	-3.22	-0.003896	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	-1.95	-0.002359	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	30	-1.56	-0.001887	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	40	1.65	0.001996	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	50	-2.57	-0.003109	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	2.22	0.002654	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	1.65	0.001973	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-10	1.82	0.002176	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	-1.34	-0.001602	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	1.76	0.002104	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	3.43	0.004100	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	2.13	0.002546	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	2.49	0.002977	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	2.26	0.002702	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	0.89	0.001064	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	1.83	0.002188	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-10	3.58	0.004280	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	1.80	0.002152	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	1.95	0.002331	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	2.75	0.003288	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	30	1.83	0.002188	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	40	2.00	0.002391	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	50	2.39	0.002857	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	2.69	0.003178	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	1.82	0.002150	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-10	1.47	0.001737	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	3.09	0.003650	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	2.63	0.003107	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	2.16	0.002552	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	30	3.15	0.003721	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	40	2.60	0.003071	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	50	3.69	0.004359	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	-2.03	-0.002398	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	3.40	0.004017	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-10	-1.63	-0.001926	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	2.62	0.003095	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	3.36	0.003969	±2.5	PASS

Band5	5MHz	16QAM	20625	25RB#0	NV	20	4.22	0.004985	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	30	2.68	0.003166	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	40	3.85	0.004548	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	50	3.89	0.004595	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	2.72	0.003281	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	2.16	0.002606	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	2.43	0.002931	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	1.57	0.001894	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-1.67	-0.002014	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-3.13	-0.003776	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	2.39	0.002883	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	1.73	0.002087	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	2.35	0.002835	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	2.73	0.003264	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.87	-0.002236	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	2.30	0.002750	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-2.72	-0.003252	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-2.65	-0.003168	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	2.68	0.003204	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-2.52	-0.003013	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.32	-0.001578	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	2.39	0.002832	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	1.07	0.001268	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	2.53	0.002998	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-2.20	-0.002607	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-1.33	-0.001576	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-1.34	-0.001588	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	2.32	0.002749	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	1.59	0.001884	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.99	-0.002358	±2.5	PASS