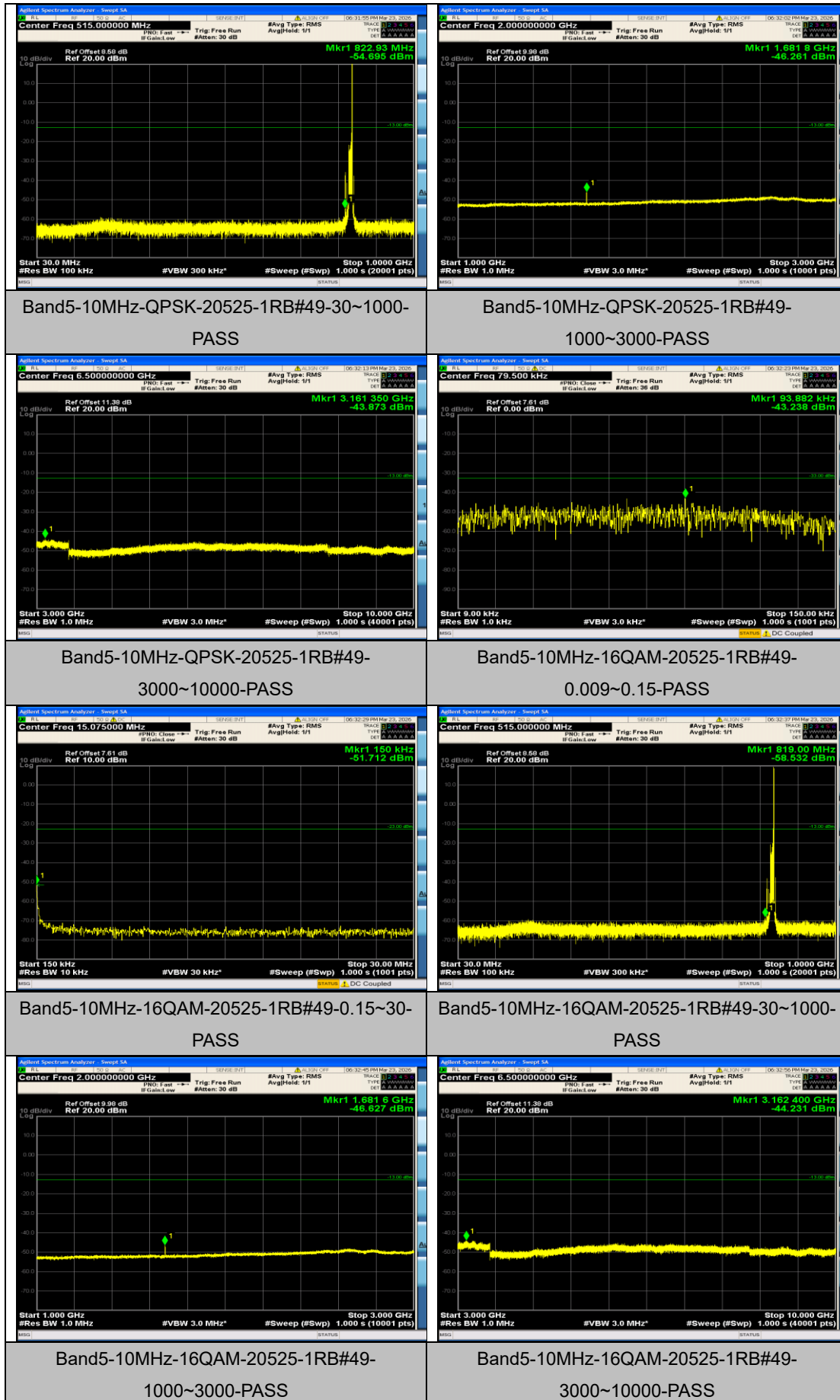
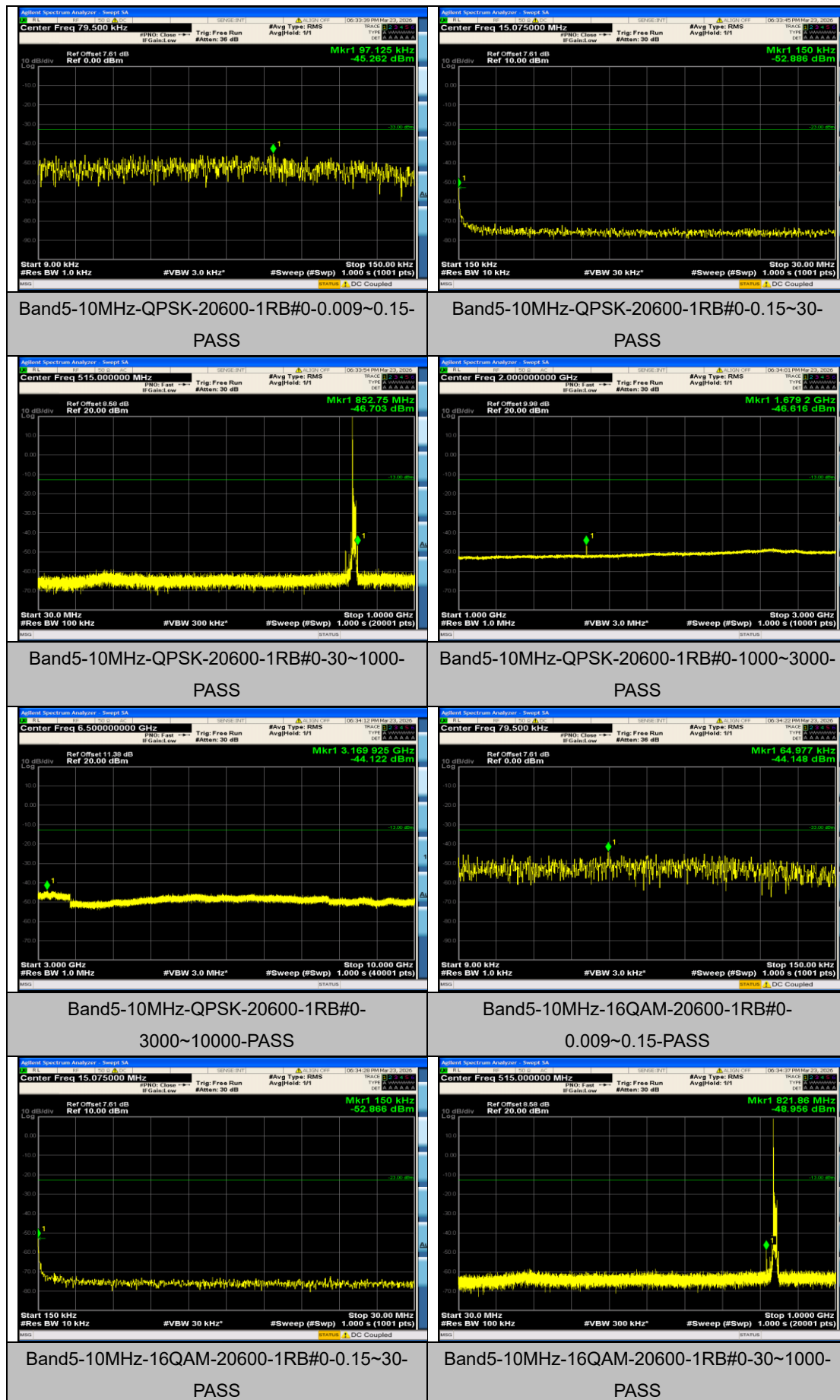
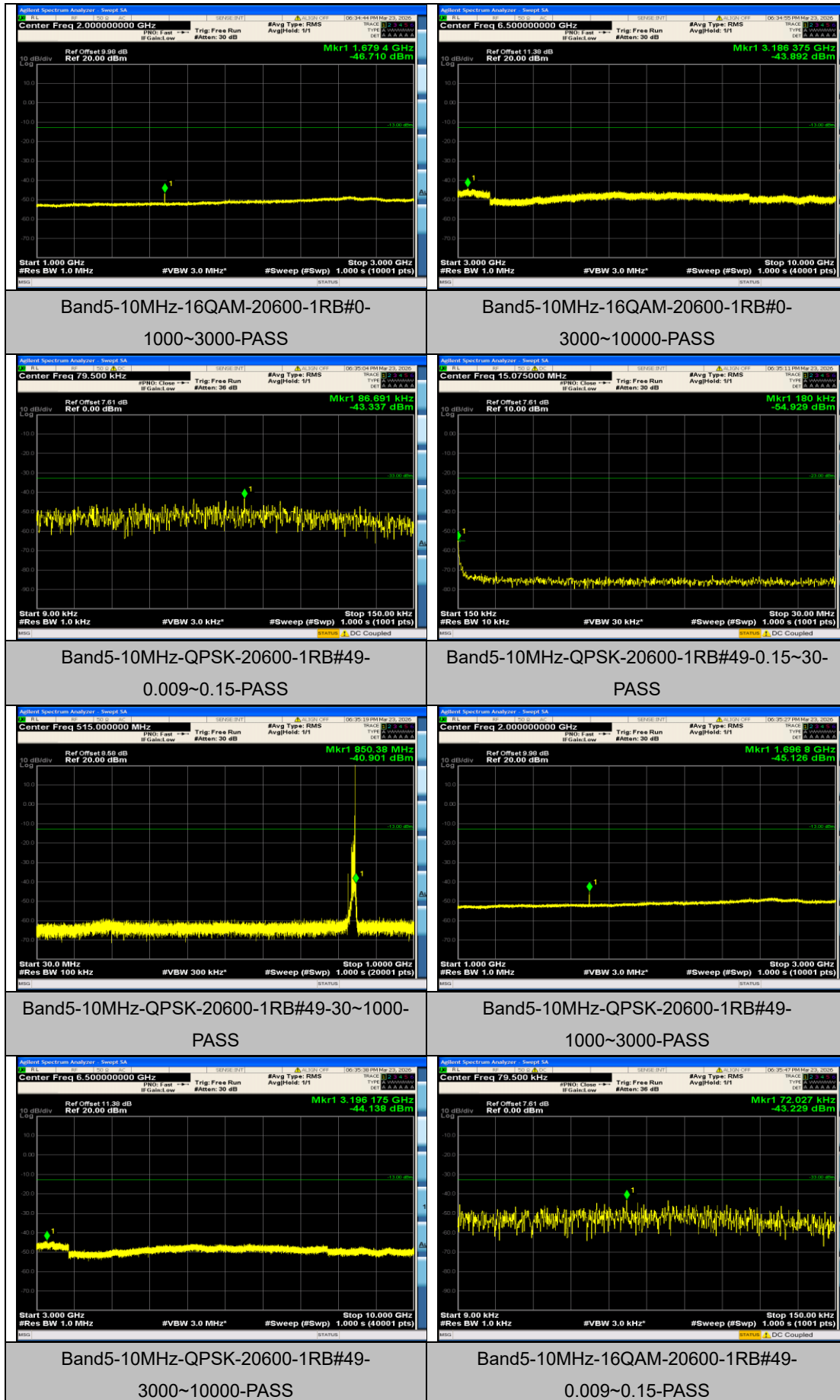
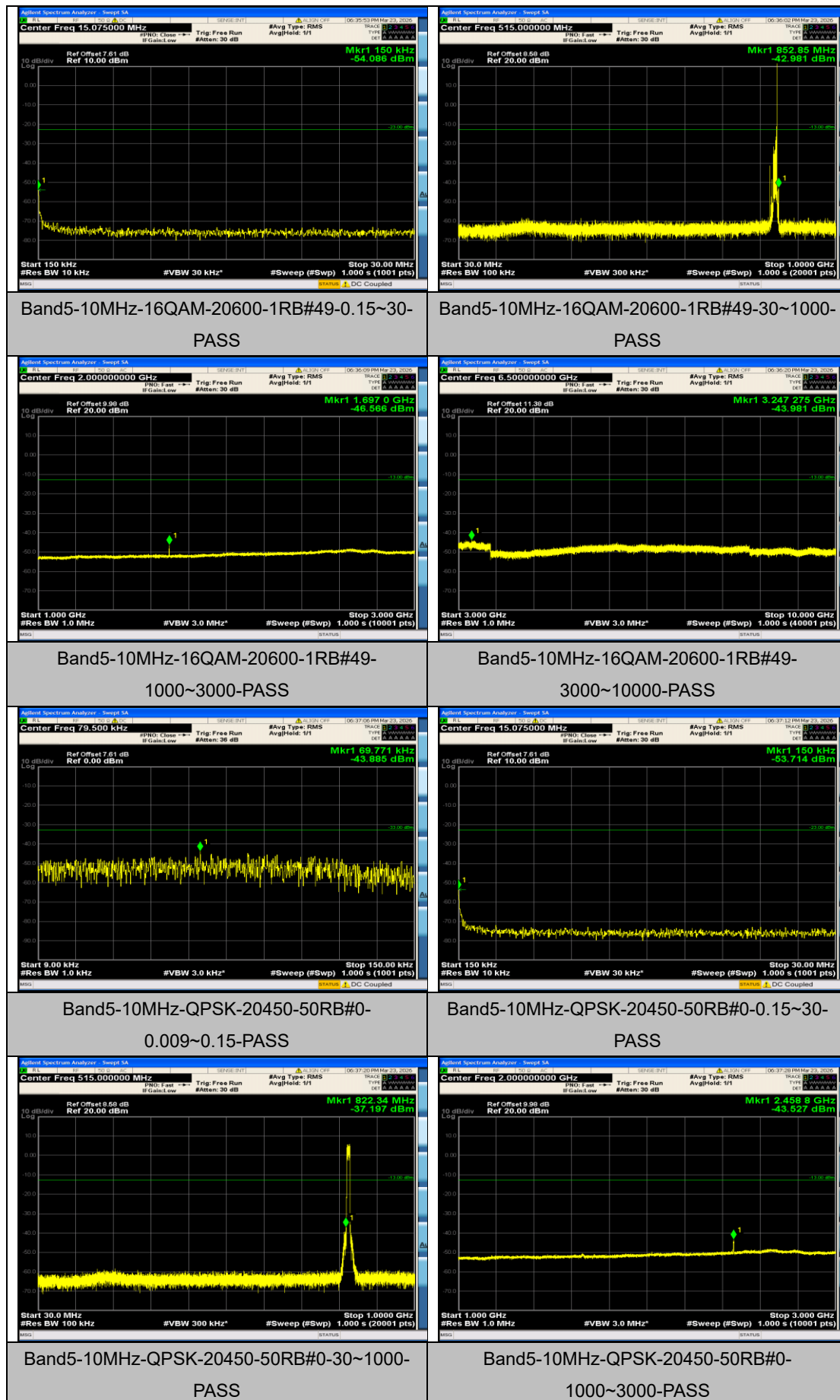
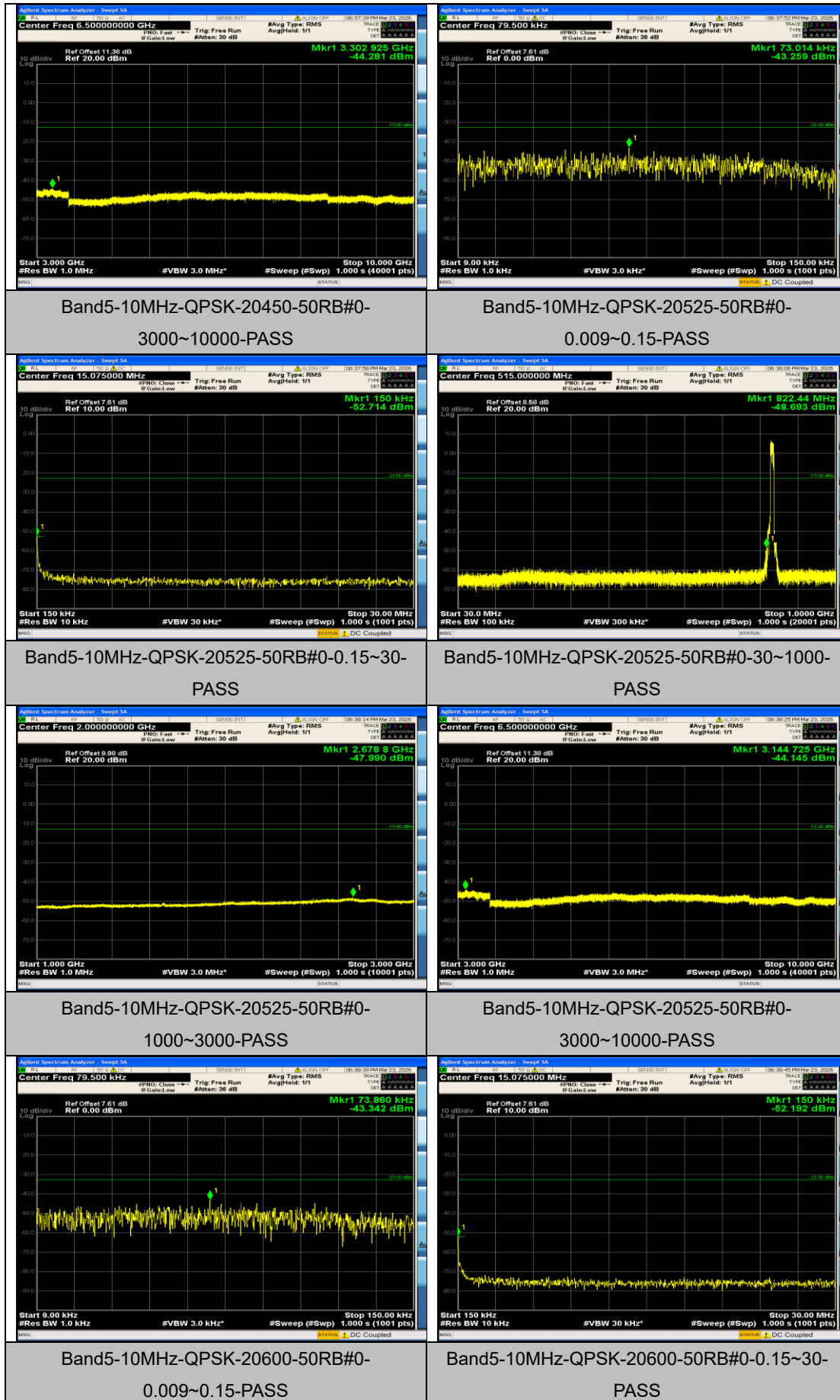


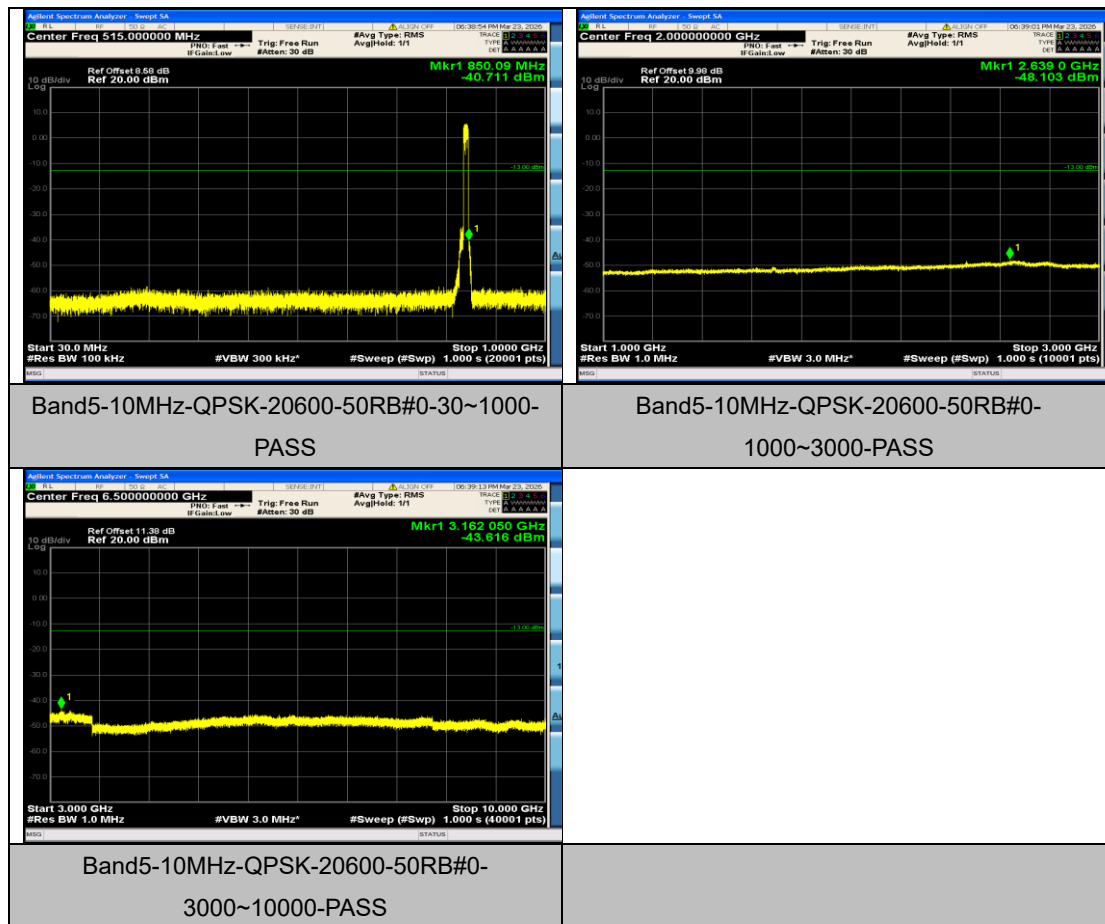












Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	Temperature						
				RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	-4.31	-0.005226	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-5.65	-0.006851	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-10	-5.14	-0.006233	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	-4.45	-0.005396	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	-4.33	-0.005250	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-2.86	-0.003468	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	30	-4.58	-0.005554	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	40	-3.63	-0.004402	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	50	-4.35	-0.005275	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	-7.47	-0.009058	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	-7.14	-0.008658	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-10	-4.53	-0.005493	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	-7.57	-0.009179	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	-5.48	-0.006645	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	-7.94	-0.009628	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	30	-6.69	-0.008112	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	40	-4.29	-0.005202	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	50	-7.12	-0.008633	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	-5.12	-0.006121	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	3.91	0.004674	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-10	-3.25	-0.003885	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	-3.91	-0.004674	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	-2.32	-0.002773	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	-3.56	-0.004256	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	-4.55	-0.005439	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	-4.23	-0.005057	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	-3.59	-0.004292	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	-8.04	-0.009611	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-5.66	-0.006766	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-10	-6.90	-0.008249	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	-7.41	-0.008858	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-5.97	-0.007137	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-5.48	-0.006551	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	30	-6.48	-0.007747	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	40	-7.00	-0.008368	±2.5	PASS

Band5	1.4MHz	16QAM	20525	6RB#0	NV	50	-6.57	-0.007854	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	-22.14	-0.026099	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	2.92	0.003442	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-10	-3.15	-0.003713	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	-3.95	-0.004656	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	-3.89	-0.004586	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	2.40	0.002829	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	30	-2.79	-0.003289	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	40	-4.62	-0.005446	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	50	-3.71	-0.004373	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	-6.01	-0.007085	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	-8.08	-0.009525	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-10	-3.81	-0.004491	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	-3.06	-0.003607	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	-6.67	-0.007863	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	-8.31	-0.009796	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	30	-6.17	-0.007273	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	40	-4.21	-0.004963	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	50	-5.81	-0.006849	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	-3.08	-0.003731	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	-2.10	-0.002544	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-10	-3.56	-0.004313	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	-2.63	-0.003186	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	-4.05	-0.004906	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	-3.72	-0.004506	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	30	-3.85	-0.004664	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	40	-2.39	-0.002895	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	50	-9.48	-0.011484	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	-8.44	-0.010224	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	-5.42	-0.006566	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-10	-8.44	-0.010224	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	-9.33	-0.011302	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	-11.40	-0.013810	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	-9.56	-0.011581	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	30	-9.07	-0.010987	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	40	-8.45	-0.010236	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	50	-8.41	-0.010188	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	2.63	0.003144	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	-2.40	-0.002869	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-10	-3.29	-0.003933	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	-2.69	-0.003216	±2.5	PASS

Band5	3MHz	QPSK	20525	15RB#0	NV	10	3.20	0.003825	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	-1.97	-0.002355	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	30	-6.82	-0.008153	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	4.18	0.004997	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	-3.23	-0.003861	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	-8.34	-0.009970	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	-8.91	-0.010652	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-10	-8.37	-0.010006	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	-8.83	-0.010556	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	-8.91	-0.010652	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	-7.81	-0.009337	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	30	-4.73	-0.005655	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	40	-6.31	-0.007543	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	50	-10.87	-0.012995	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	3.32	0.003917	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	-1.73	-0.002041	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-10	2.20	0.002596	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	3.19	0.003764	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	-2.78	-0.003280	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	3.42	0.004035	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	30	-3.52	-0.004153	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	40	-2.82	-0.003327	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	50	-3.63	-0.004283	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	-7.42	-0.008755	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	-7.52	-0.008873	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-10	-5.65	-0.006667	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	-7.74	-0.009133	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	-6.22	-0.007339	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	-3.59	-0.004236	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	30	-7.41	-0.008743	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	40	-3.79	-0.004472	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	50	-6.42	-0.007575	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	-2.93	-0.003545	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	-1.26	-0.001525	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-10	-2.37	-0.002868	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	-5.75	-0.006957	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	2.22	0.002686	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	-3.35	-0.004053	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	30	-3.58	-0.004332	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	40	-4.72	-0.005711	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	50	-2.99	-0.003618	±2.5	PASS

Band5	5MHz	16QAM	20425	25RB#0	NV	-30	-7.91	-0.009570	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	-8.74	-0.010575	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-10	-8.71	-0.010538	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-8.38	-0.010139	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	-8.67	-0.010490	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	-8.38	-0.010139	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	30	-10.43	-0.012619	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	40	-10.87	-0.013152	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	50	-29.71	-0.035947	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	3.81	0.004555	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	-2.72	-0.003252	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-10	-1.73	-0.002068	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	-3.92	-0.004686	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	-2.76	-0.003299	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	-7.54	-0.009014	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	-4.13	-0.004937	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	-2.76	-0.003299	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	-3.25	-0.003885	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	-6.90	-0.008249	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	-7.71	-0.009217	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-10	-9.71	-0.011608	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	-8.48	-0.010137	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	-7.61	-0.009097	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	-4.72	-0.005643	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	30	-8.80	-0.010520	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	40	-9.10	-0.010879	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	50	-7.20	-0.008607	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	2.86	0.003379	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	-3.42	-0.004040	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-10	2.62	0.003095	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	2.05	0.002422	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	-2.89	-0.003414	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	1.99	0.002351	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	30	-1.95	-0.002304	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	40	-2.29	-0.002705	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	50	-4.78	-0.005647	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	-8.14	-0.009616	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	-4.58	-0.005411	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-10	-6.55	-0.007738	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	-5.68	-0.006710	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	-6.19	-0.007312	±2.5	PASS

Band5	5MHz	16QAM	20625	25RB#0	NV	20	-8.24	-0.009734	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	30	-2.76	-0.003260	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	40	-8.45	-0.009982	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	50	-7.67	-0.009061	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.39	-0.001677	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.97	-0.001170	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-1.86	-0.002244	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	3.40	0.004101	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-1.87	-0.002256	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-3.22	-0.003884	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-2.32	-0.002799	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-4.12	-0.004970	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-2.69	-0.003245	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	2.20	0.002630	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	2.16	0.002582	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	3.22	0.003849	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	5.46	0.006527	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	2.49	0.002977	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	2.93	0.003503	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-3.65	-0.004363	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-2.89	-0.003455	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-2.39	-0.002857	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	4.13	0.004893	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	4.89	0.005794	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	1.93	0.002287	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	1.49	0.001765	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-3.85	-0.004562	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-2.60	-0.003081	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-3.76	-0.004455	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-2.45	-0.002903	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-2.70	-0.003199	±2.5	PASS