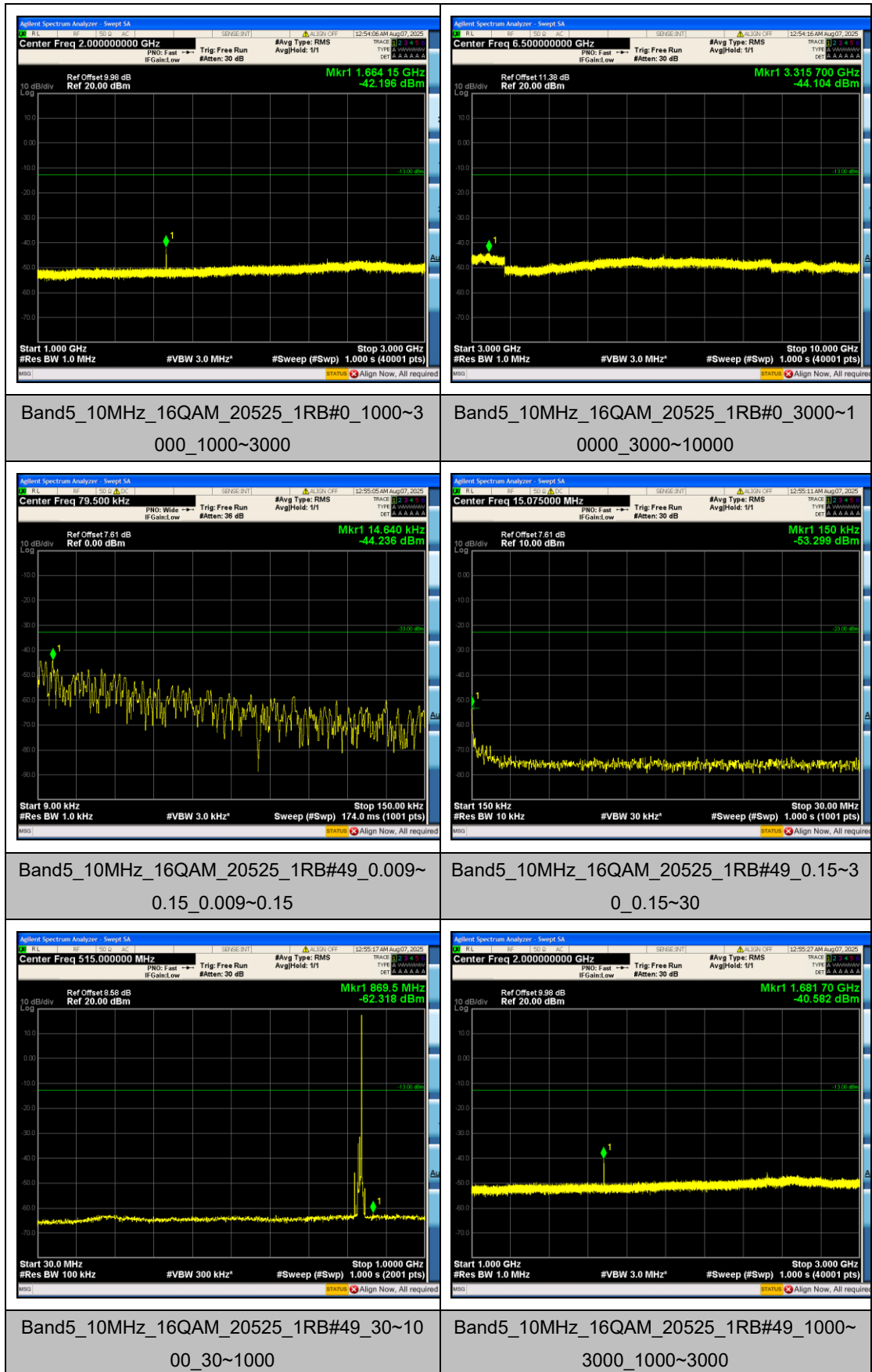
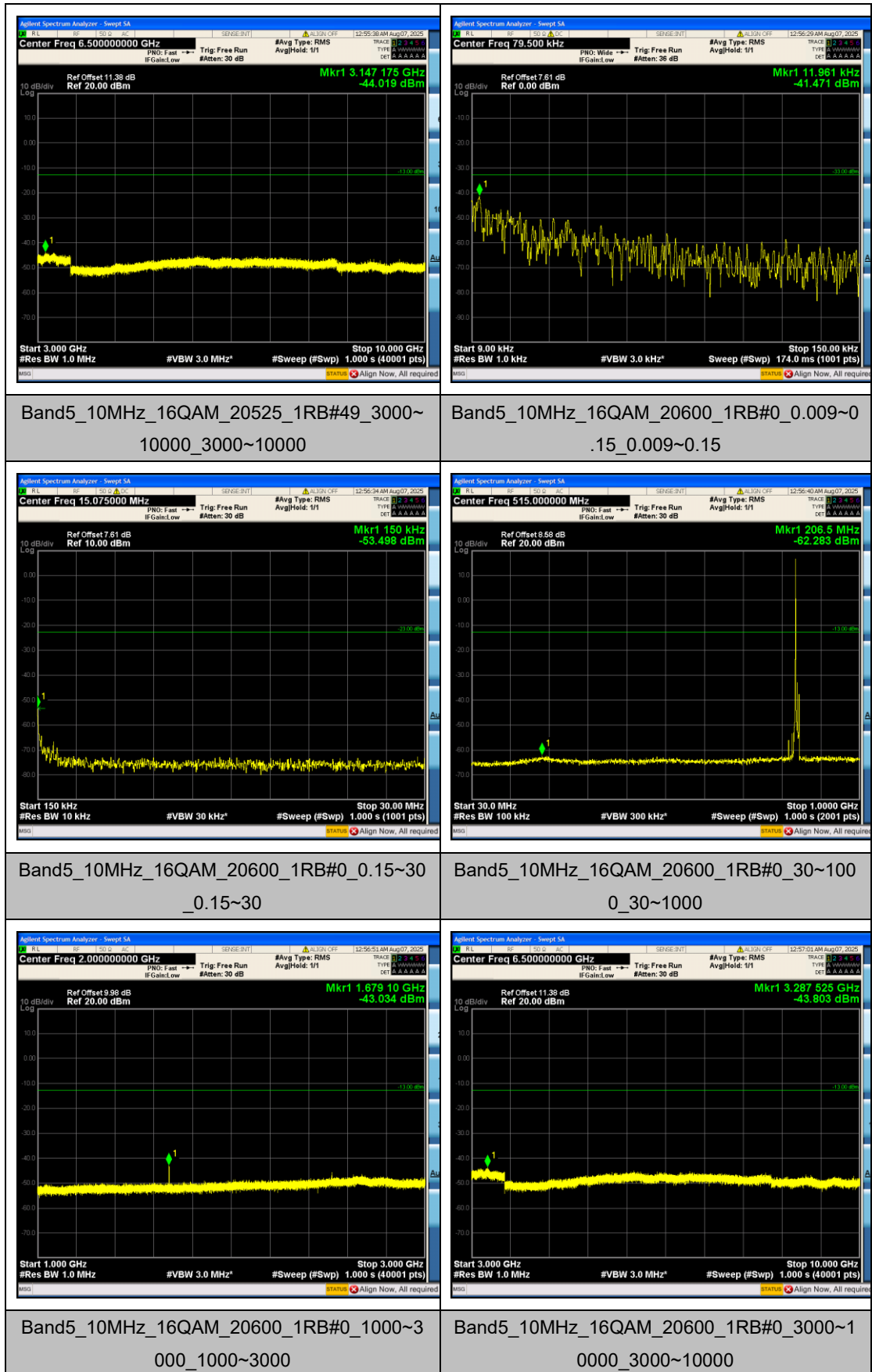
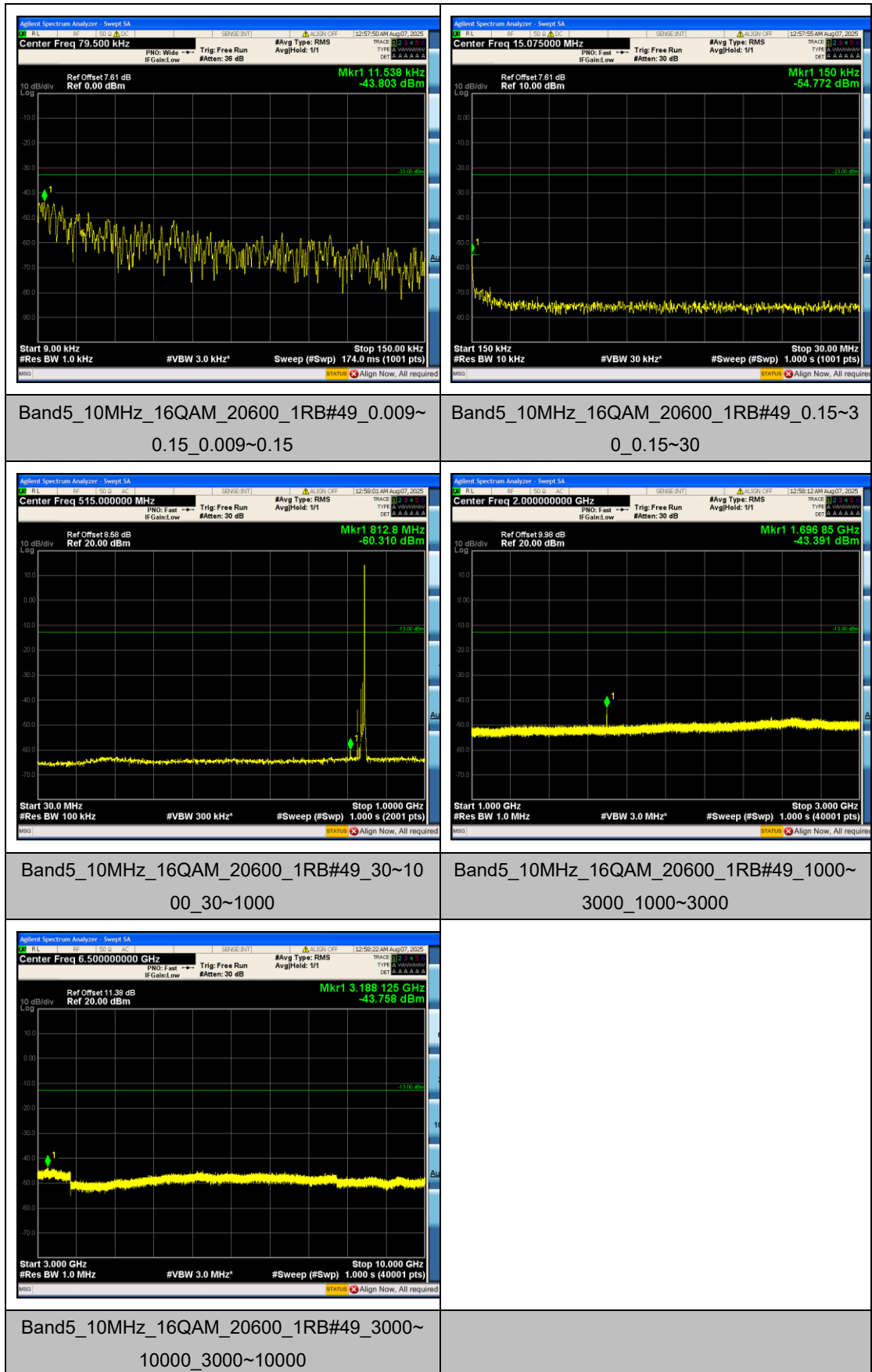








Appendix F: Frequency Stability

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	-2.27	-0.002753	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-2.46	-0.002983	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-10	2.23	0.002704	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	1.79	0.002170	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	-5.34	-0.006475	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-3.33	-0.004038	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	30	-2.88	-0.003492	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	40	-4.56	-0.005529	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	50	-2.72	-0.003298	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	-11.26	-0.013461	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	-9.78	-0.011692	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-10	-6.62	-0.007914	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	-5.14	-0.006145	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	-4.23	-0.005057	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	-4.63	-0.005535	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	-6.01	-0.007185	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	-4.25	-0.005081	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	-2.26	-0.002702	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	-4.13	-0.004869	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	-3.89	-0.004586	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-10	-4.22	-0.004975	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	-3.89	-0.004586	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	-4.29	-0.005057	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	-3.32	-0.003914	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	30	-2.85	-0.003360	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	40	-3.20	-0.003772	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	50	-2.40	-0.002829	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	-2.88	-0.003492	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	-3.59	-0.004353	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-10	-4.71	-0.005711	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	-4.41	-0.005347	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	-3.25	-0.003941	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	2.62	0.003177	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	30	-2.62	-0.003177	±2.5	PASS

Band5	1.4MHz	16QAM	20407	6RB#0	NV	40	-1.87	-0.002267	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	50	-4.72	-0.005723	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	-3.18	-0.003802	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-2.59	-0.003096	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-10	-4.09	-0.004889	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	-3.19	-0.003814	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-1.44	-0.001721	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-26.78	-0.032014	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	30	-3.05	-0.003646	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	40	-5.85	-0.006993	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	50	-3.22	-0.003849	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	-4.25	-0.005010	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	5.36	0.006319	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-10	-4.82	-0.005682	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	-3.13	-0.003690	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	2.65	0.003124	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	2.47	0.002912	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	30	-1.80	-0.002122	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	40	-3.45	-0.004067	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	50	2.09	0.002464	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	40	3.98	0.004821	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	50	3.81	0.004615	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	5.51	0.006675	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	3.92	0.004749	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-10	3.81	0.004615	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	3.45	0.004179	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	4.11	0.004979	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	3.98	0.004821	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	30	2.40	0.002907	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	3.52	0.004208	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	3.86	0.004614	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-10	4.03	0.004818	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	5.58	0.006671	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	10	4.94	0.005906	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	5.25	0.006276	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	30	5.39	0.006444	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	4.99	0.005965	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	5.05	0.006037	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	2.27	0.002678	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	3.19	0.003764	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-10	4.18	0.004932	±2.5	PASS

Band5	3MHz	QPSK	20635	15RB#0	NV	0	2.82	0.003327	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	3.33	0.003929	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	4.95	0.005841	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	30	4.58	0.005404	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	40	3.48	0.004106	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	50	2.73	0.003221	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	3.10	0.003755	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	4.39	0.005318	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-10	4.43	0.005366	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	5.32	0.006445	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	2.37	0.002871	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	3.73	0.004518	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	30	3.05	0.003695	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	40	5.06	0.006130	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	50	6.14	0.007438	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	4.35	0.005200	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	3.78	0.004519	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-10	3.72	0.004447	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	2.88	0.003443	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	3.08	0.003682	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	30	1.54	0.001841	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	40	3.19	0.003814	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	50	4.29	0.005129	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	2.32	0.002773	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	4.25	0.005015	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	2.76	0.003257	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-10	3.08	0.003634	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	3.35	0.003953	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	2.30	0.002714	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	4.13	0.004873	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	30	1.73	0.002041	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	40	3.69	0.004354	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	50	3.50	0.004130	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	3.75	0.004537	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	-2.56	-0.003097	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-10	-3.00	-0.003630	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	-1.85	-0.002238	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	-2.15	-0.002601	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	-2.05	-0.002480	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	40	2.60	0.003146	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	50	-2.13	-0.002577	±2.5	PASS

Band5	5MHz	QPSK	20425	25RB#0	NV	30	-3.05	-0.003690	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	3.69	0.004411	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	-2.02	-0.002415	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-10	2.68	0.003204	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	3.46	0.004136	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	1.80	0.002152	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	2.65	0.003168	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	4.45	0.005320	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	4.48	0.005356	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	3.78	0.004519	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	3.86	0.004560	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	5.19	0.006131	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-10	5.55	0.006556	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	6.14	0.007253	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	6.34	0.007490	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	3.86	0.004560	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	30	4.79	0.005659	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	40	5.11	0.006037	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	50	4.85	0.005729	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-30	1.79	0.002166	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	-2.03	-0.002456	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-10	1.53	0.001851	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	-2.19	-0.002650	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	2.55	0.003085	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	30	-3.59	-0.004344	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	40	-2.23	-0.002698	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	50	3.65	0.004416	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-1.69	-0.002045	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	3.69	0.004411	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	6.97	0.008332	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-10	5.85	0.006993	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	5.55	0.006635	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	5.76	0.006886	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	4.45	0.005320	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	30	3.98	0.004758	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	40	5.12	0.006121	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	50	3.50	0.004184	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	4.85	0.005729	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	4.43	0.005233	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-10	2.63	0.003107	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	-2.66	-0.003142	±2.5	PASS

Band5	5MHz	16QAM	20625	25RB#0	NV	10	1.83	0.002162	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	30	2.16	0.002552	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	40	3.63	0.004288	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	50	3.96	0.004678	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	20	2.53	0.002989	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	1.80	0.002171	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-3.62	-0.004367	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	2.83	0.003414	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	2.39	0.002883	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	1.95	0.002352	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	1.90	0.002292	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	2.27	0.002738	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	1.83	0.002207	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	2.12	0.002557	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	3.55	0.004244	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.39	-0.001662	±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	0	2.53	0.003025	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	2.50	0.002989	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	2.56	0.003060	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-2.36	-0.002821	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	3.63	0.004340	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-2.98	-0.003562	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-2.17	-0.002571	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	3.25	0.003851	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	1.37	0.001623	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	2.00	0.002370	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	3.05	0.003614	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-1.89	-0.002239	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-1.49	-0.001765	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-2.00	-0.002370	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.86	-0.002204	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	PASS
Band5	3MHz	QPSK	20415	15RB#0	PASS
Band5	3MHz	QPSK	20525	15RB#0	PASS
Band5	3MHz	QPSK	20635	15RB#0	PASS
Band5	3MHz	16QAM	20415	15RB#0	PASS
Band5	3MHz	16QAM	20525	15RB#0	PASS
Band5	3MHz	16QAM	20635	15RB#0	PASS
Band5	5MHz	QPSK	20425	25RB#0	PASS
Band5	5MHz	QPSK	20525	25RB#0	PASS
Band5	5MHz	QPSK	20625	25RB#0	PASS
Band5	5MHz	16QAM	20425	25RB#0	PASS
Band5	5MHz	16QAM	20525	25RB#0	PASS
Band5	5MHz	16QAM	20625	25RB#0	PASS
Band5	10MHz	QPSK	20450	50RB#0	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS
Band5	10MHz	QPSK	20600	50RB#0	PASS
Band5	10MHz	16QAM	20450	1RB#0	PASS
Band5	10MHz	16QAM	20525	1RB#0	PASS
Band5	10MHz	16QAM	20600	1RB#0	PASS

Test Graphs

