

FCC LTE Band Test Data

FCC ID : 2BDCL-M616A

Company: : Signalinks Communication Technology Co.,Ltd

EUT : 4G LTE Mobile Wifi

Model Number : M616A

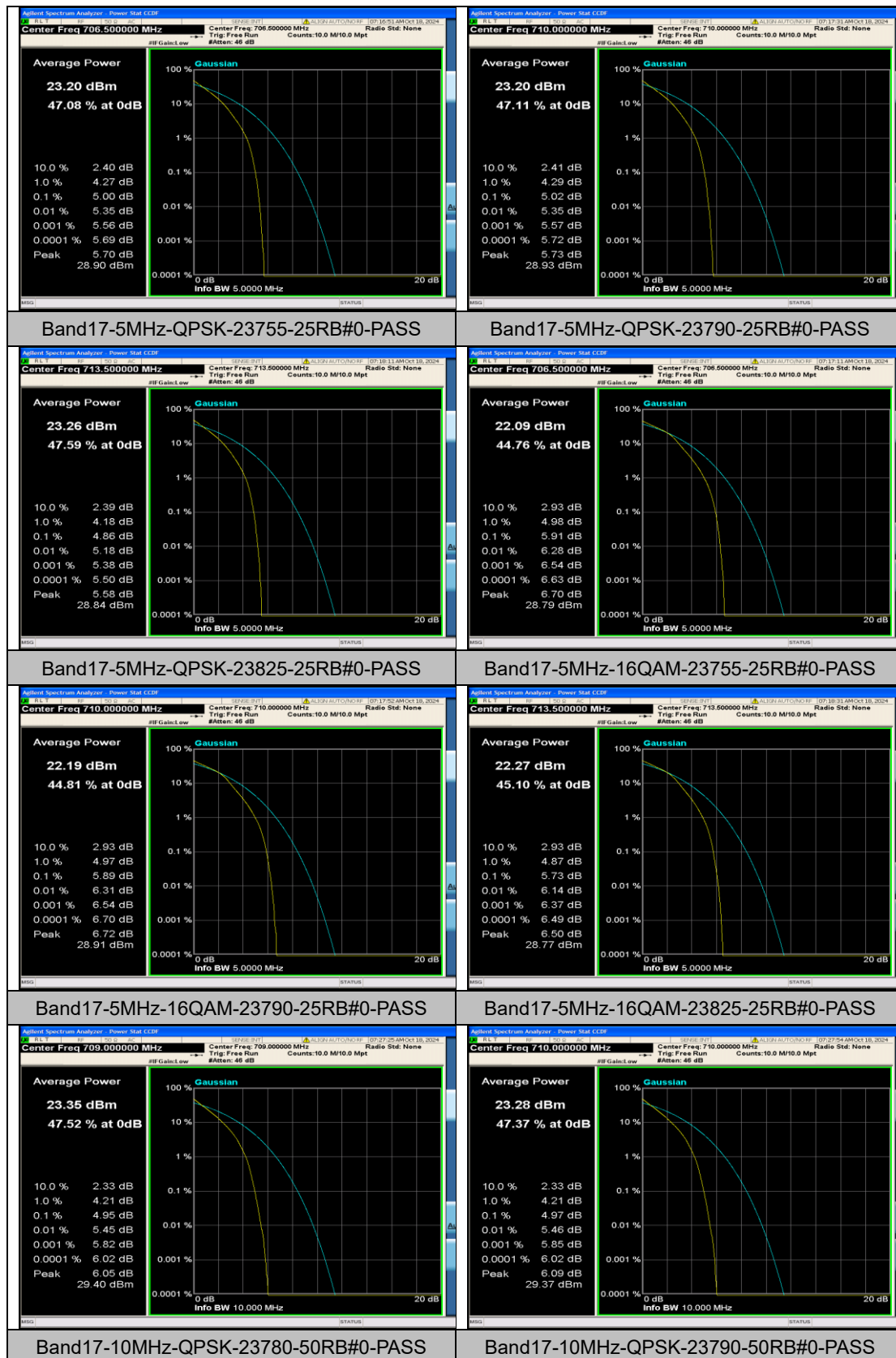
Reviewed By : Eric Wang

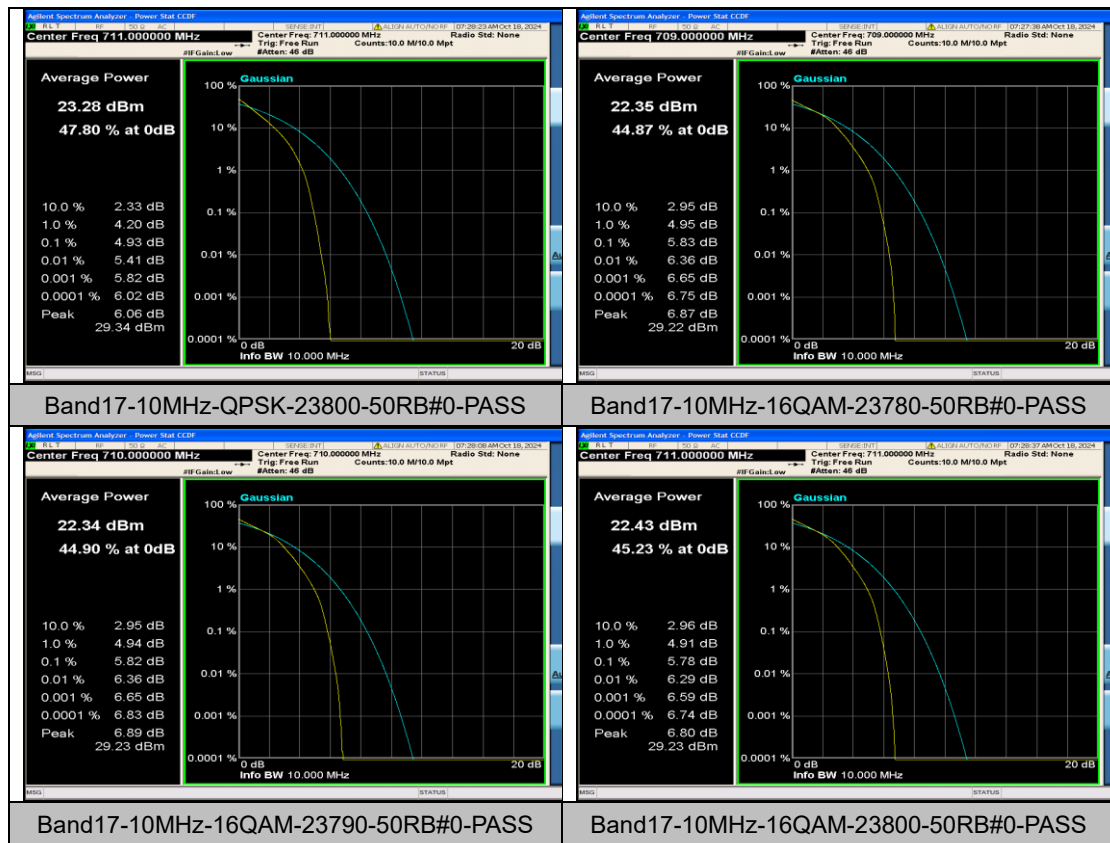
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	5.00	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.02	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.86	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	5.91	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	5.89	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.73	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	4.95	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.97	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.93	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.83	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.82	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.78	13	PASS

Test Graphs



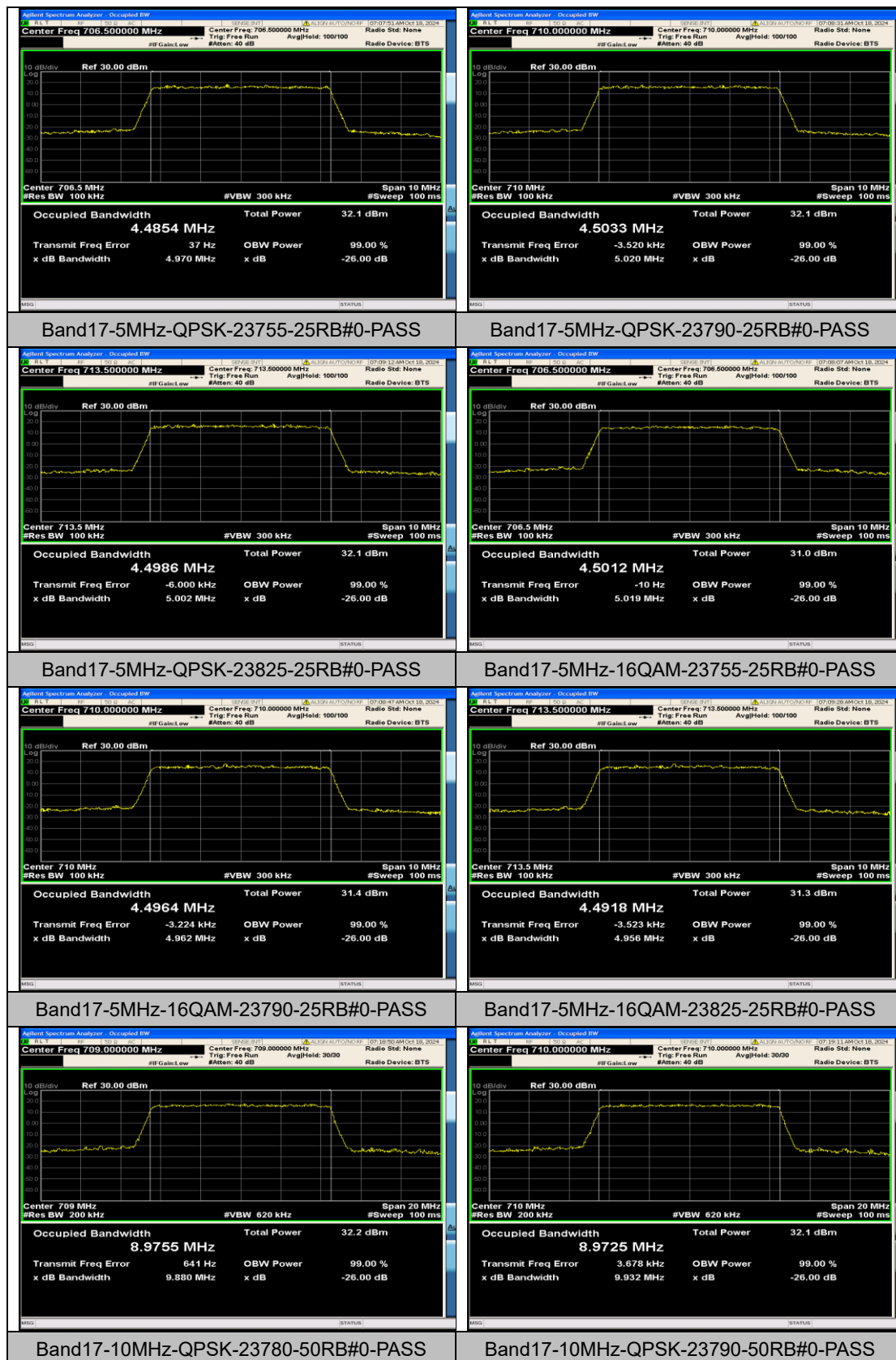


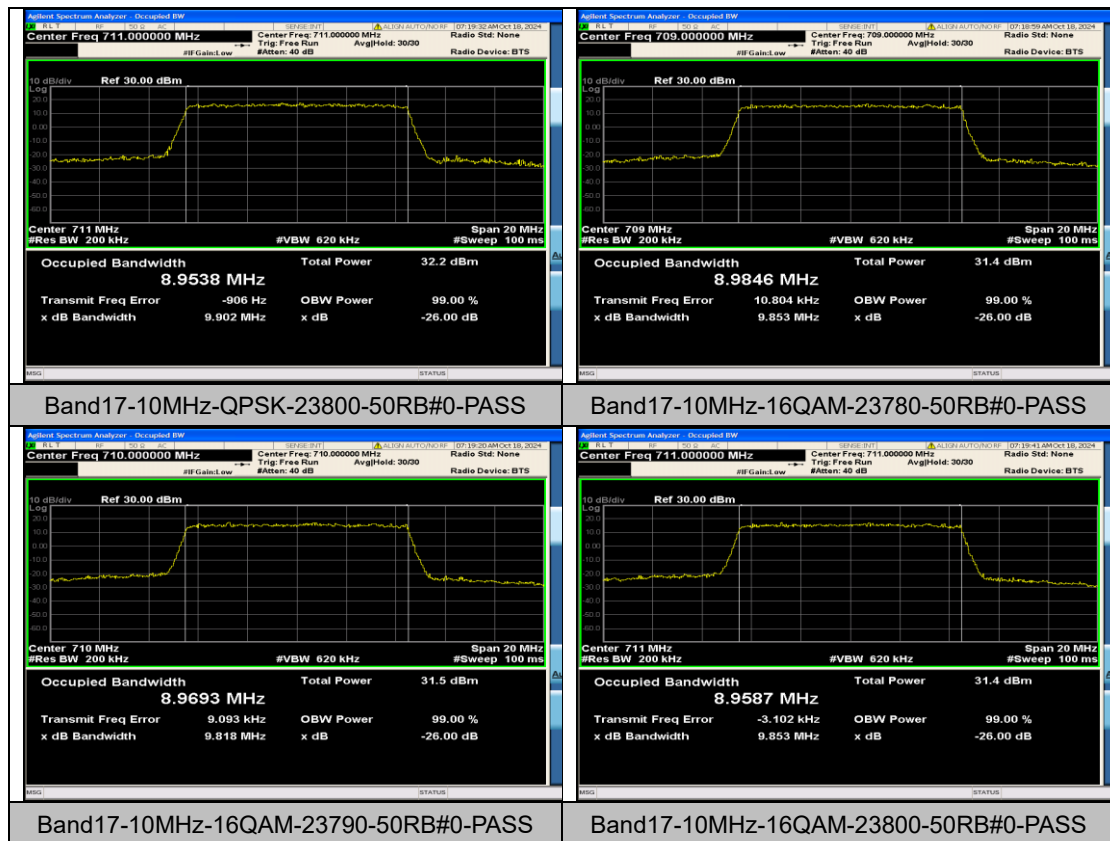
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.4854	4.970	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5033	5.020	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.4986	5.002	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5012	5.019	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.4964	4.962	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.4918	4.956	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9755	9.880	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9725	9.932	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9538	9.902	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9846	9.853	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9693	9.818	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9587	9.853	PASS

Test Graphs



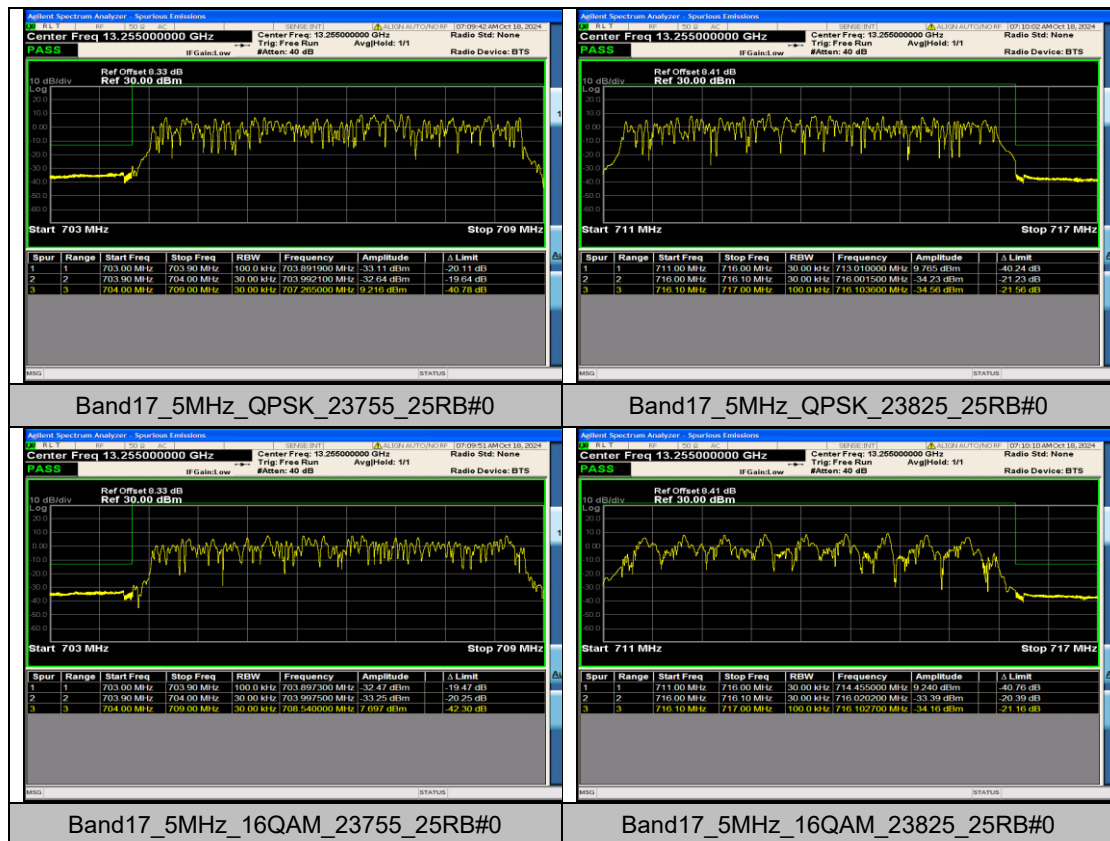


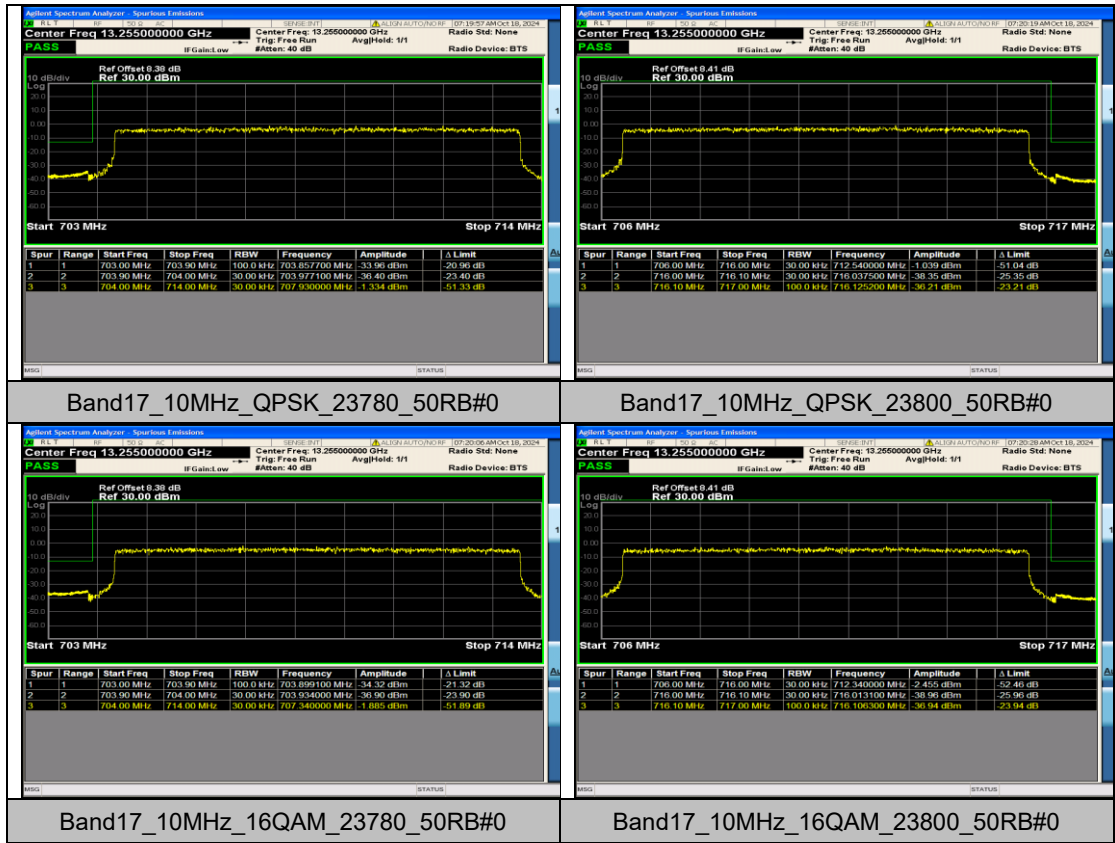
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	-32.64	PASS
Band17	5MHz	QPSK	23825	25RB#0	-34.23	PASS
Band17	5MHz	16QAM	23755	25RB#0	-32.47	PASS
Band17	5MHz	16QAM	23825	25RB#0	-33.39	PASS
Band17	10MHz	QPSK	23780	50RB#0	-33.96	PASS
Band17	10MHz	QPSK	23800	50RB#0	-36.21	PASS
Band17	10MHz	16QAM	23780	50RB#0	-34.32	PASS
Band17	10MHz	16QAM	23800	50RB#0	-36.94	PASS

Test Graphs





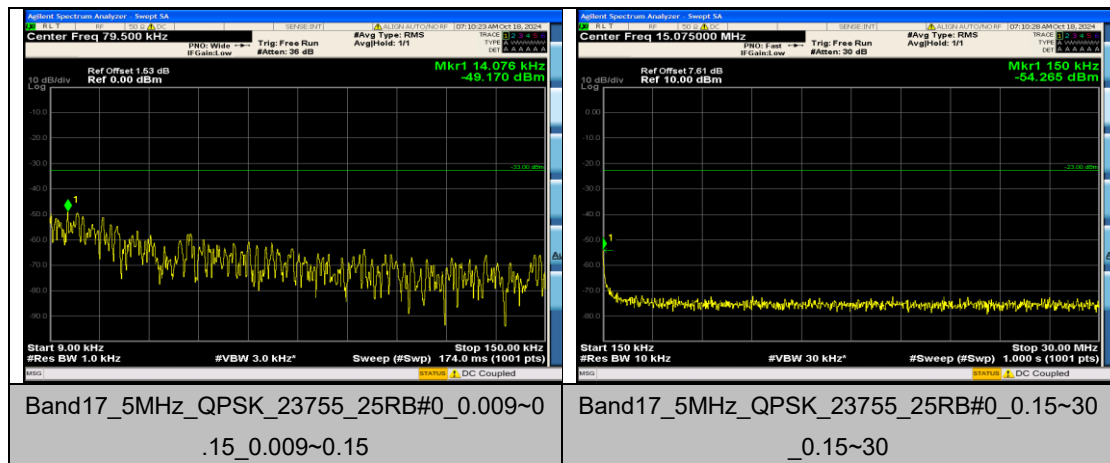
Appendix E: Conducted Spurious Emission

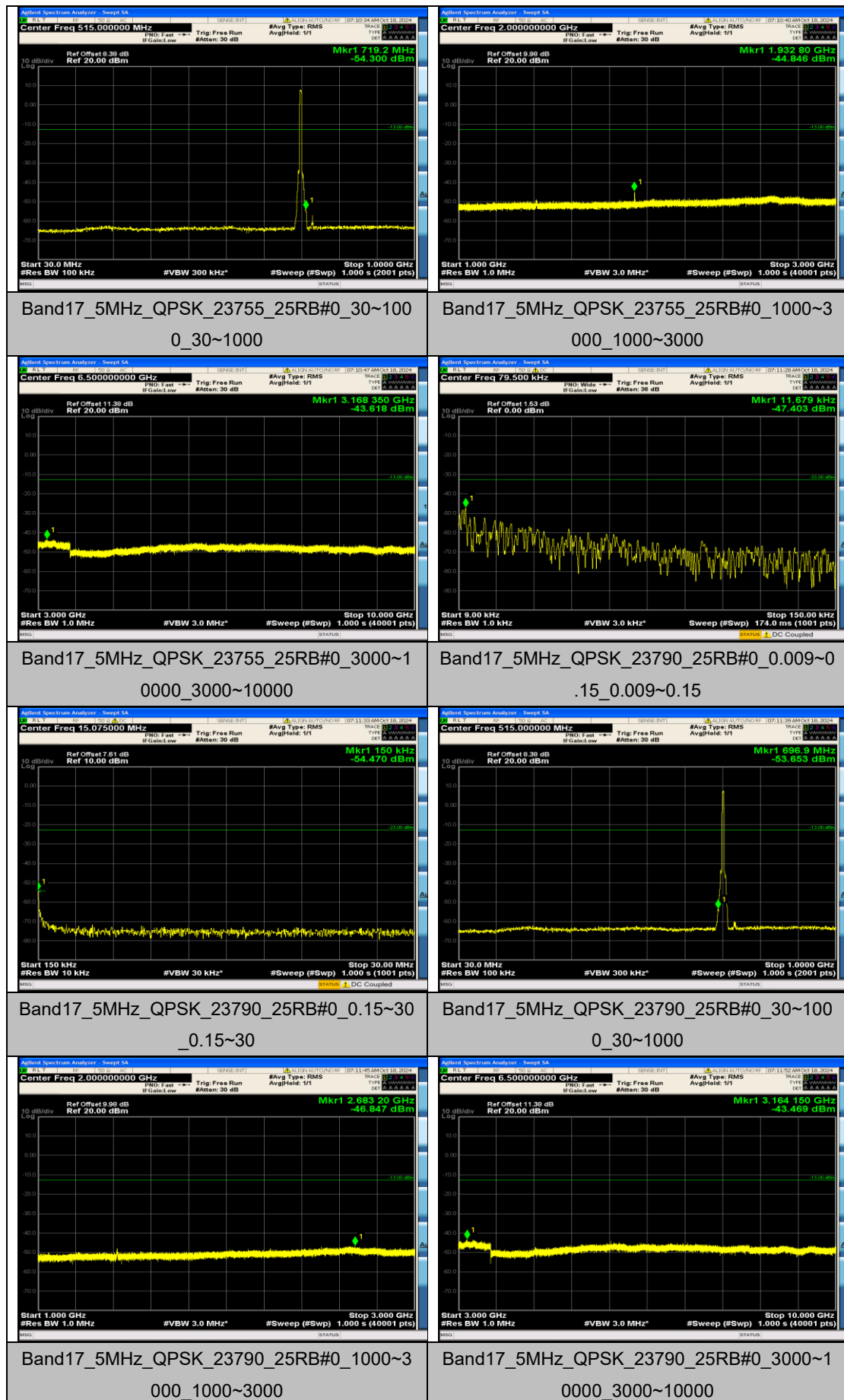
Test Result

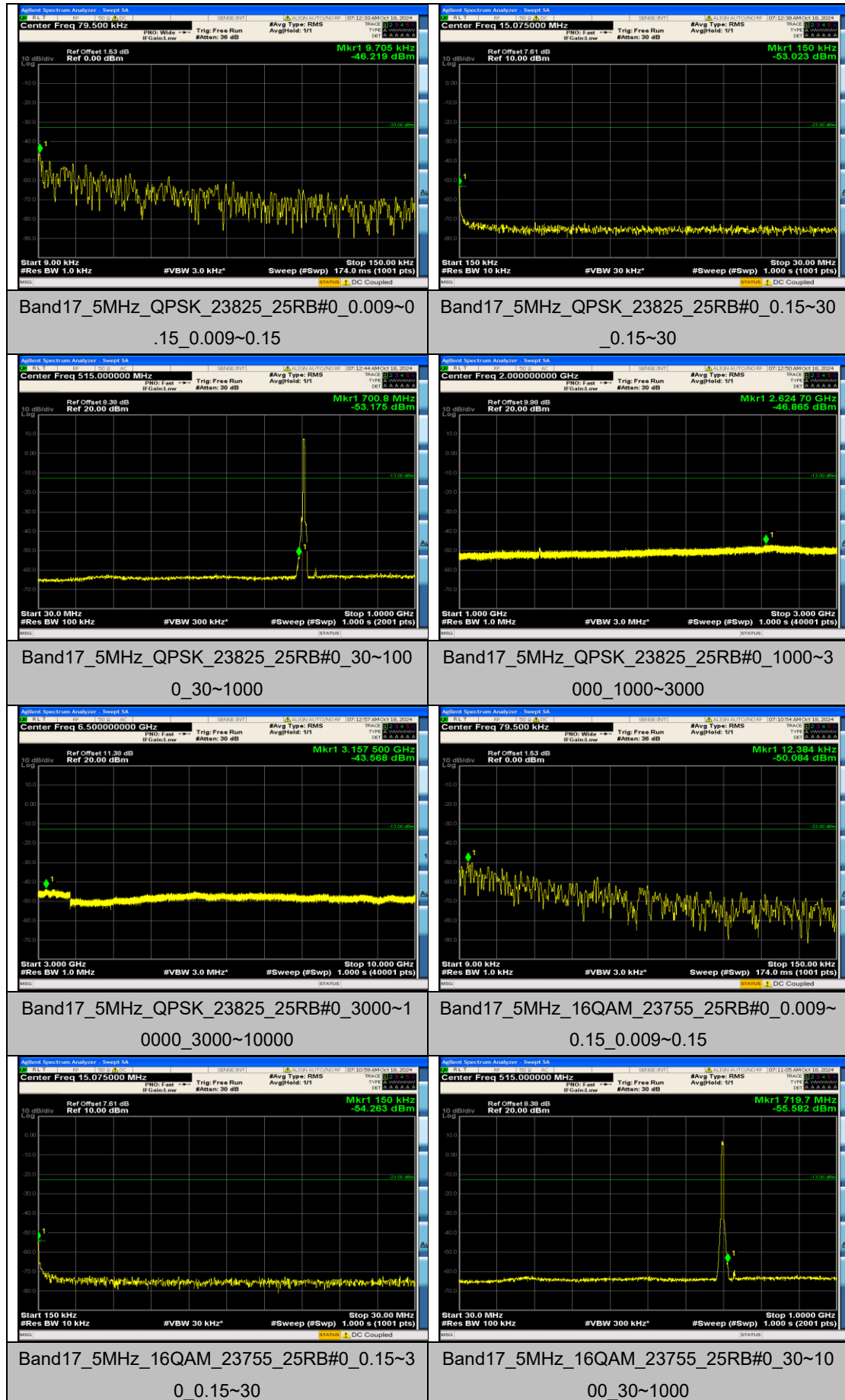
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	0.009~0.15	-49.17	PASS
Band17	5MHz	QPSK	23755	25RB#0	0.15~30	-54.27	PASS
Band17	5MHz	QPSK	23755	25RB#0	30~1000	-54.30	PASS
Band17	5MHz	QPSK	23755	25RB#0	1000~3000	-44.85	PASS
Band17	5MHz	QPSK	23755	25RB#0	3000~10000	-43.62	PASS
Band17	5MHz	QPSK	23790	25RB#0	0.009~0.15	-47.40	PASS
Band17	5MHz	QPSK	23790	25RB#0	0.15~30	-54.47	PASS
Band17	5MHz	QPSK	23790	25RB#0	30~1000	-53.65	PASS
Band17	5MHz	QPSK	23790	25RB#0	1000~3000	-46.85	PASS
Band17	5MHz	QPSK	23790	25RB#0	3000~10000	-43.47	PASS
Band17	5MHz	QPSK	23825	25RB#0	0.009~0.15	-46.22	PASS
Band17	5MHz	QPSK	23825	25RB#0	0.15~30	-53.02	PASS
Band17	5MHz	QPSK	23825	25RB#0	30~1000	-53.18	PASS
Band17	5MHz	QPSK	23825	25RB#0	1000~3000	-46.87	PASS
Band17	5MHz	QPSK	23825	25RB#0	3000~10000	-43.57	PASS
Band17	5MHz	16QAM	23755	25RB#0	0.009~0.15	-50.08	PASS
Band17	5MHz	16QAM	23755	25RB#0	0.15~30	-54.26	PASS
Band17	5MHz	16QAM	23755	25RB#0	30~1000	-55.58	PASS
Band17	5MHz	16QAM	23755	25RB#0	1000~3000	-46.61	PASS
Band17	5MHz	16QAM	23755	25RB#0	3000~10000	-43.38	PASS
Band17	5MHz	16QAM	23790	25RB#0	0.009~0.15	-49.07	PASS
Band17	5MHz	16QAM	23790	25RB#0	0.15~30	-53.07	PASS
Band17	5MHz	16QAM	23790	25RB#0	30~1000	-55.46	PASS
Band17	5MHz	16QAM	23790	25RB#0	1000~3000	-46.59	PASS
Band17	5MHz	16QAM	23790	25RB#0	3000~10000	-43.66	PASS
Band17	5MHz	16QAM	23825	25RB#0	0.009~0.15	-46.79	PASS
Band17	5MHz	16QAM	23825	25RB#0	0.15~30	-53.33	PASS
Band17	5MHz	16QAM	23825	25RB#0	30~1000	-55.90	PASS
Band17	5MHz	16QAM	23825	25RB#0	1000~3000	-46.56	PASS
Band17	5MHz	16QAM	23825	25RB#0	3000~10000	-43.50	PASS
Band17	10MHz	QPSK	23780	50RB#0	0.009~0.15	-48.31	PASS
Band17	10MHz	QPSK	23780	50RB#0	0.15~30	-53.27	PASS
Band17	10MHz	QPSK	23780	50RB#0	30~1000	-62.08	PASS
Band17	10MHz	QPSK	23780	50RB#0	1000~3000	-46.95	PASS
Band17	10MHz	QPSK	23780	50RB#0	3000~10000	-43.71	PASS
Band17	10MHz	QPSK	23790	50RB#0	0.009~0.15	-49.04	PASS

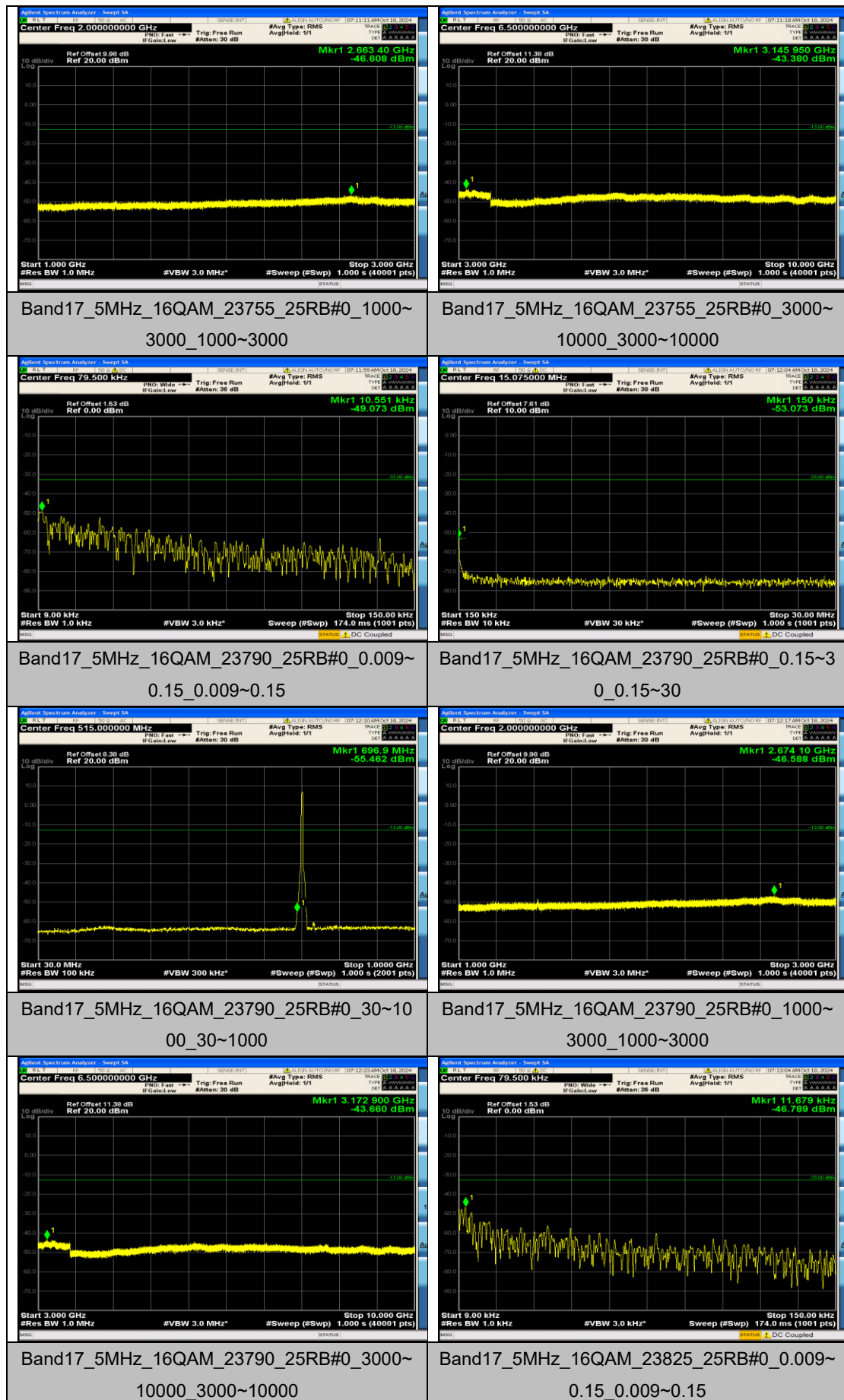
Band17	10MHz	QPSK	23790	50RB#0	0.15~30	-51.94	PASS
Band17	10MHz	QPSK	23790	50RB#0	30~1000	-62.00	PASS
Band17	10MHz	QPSK	23790	50RB#0	1000~3000	-46.29	PASS
Band17	10MHz	QPSK	23790	50RB#0	3000~10000	-43.42	PASS
Band17	10MHz	QPSK	23800	50RB#0	0.009~0.15	-50.10	PASS
Band17	10MHz	QPSK	23800	50RB#0	0.15~30	-54.83	PASS
Band17	10MHz	QPSK	23800	50RB#0	30~1000	-61.97	PASS
Band17	10MHz	QPSK	23800	50RB#0	1000~3000	-46.55	PASS
Band17	10MHz	QPSK	23800	50RB#0	3000~10000	-43.56	PASS
Band17	10MHz	16QAM	23780	50RB#0	0.009~0.15	-48.74	PASS
Band17	10MHz	16QAM	23780	50RB#0	0.15~30	-52.02	PASS
Band17	10MHz	16QAM	23780	50RB#0	30~1000	-61.73	PASS
Band17	10MHz	16QAM	23780	50RB#0	1000~3000	-46.89	PASS
Band17	10MHz	16QAM	23780	50RB#0	3000~10000	-43.70	PASS
Band17	10MHz	16QAM	23790	50RB#0	0.009~0.15	-51.03	PASS
Band17	10MHz	16QAM	23790	50RB#0	0.15~30	-54.60	PASS
Band17	10MHz	16QAM	23790	50RB#0	30~1000	-61.64	PASS
Band17	10MHz	16QAM	23790	50RB#0	1000~3000	-46.84	PASS
Band17	10MHz	16QAM	23790	50RB#0	3000~10000	-43.65	PASS
Band17	10MHz	16QAM	23800	50RB#0	0.009~0.15	-48.46	PASS
Band17	10MHz	16QAM	23800	50RB#0	0.15~30	-53.64	PASS
Band17	10MHz	16QAM	23800	50RB#0	30~1000	-61.80	PASS
Band17	10MHz	16QAM	23800	50RB#0	1000~3000	-46.46	PASS
Band17	10MHz	16QAM	23800	50RB#0	3000~10000	-43.40	PASS

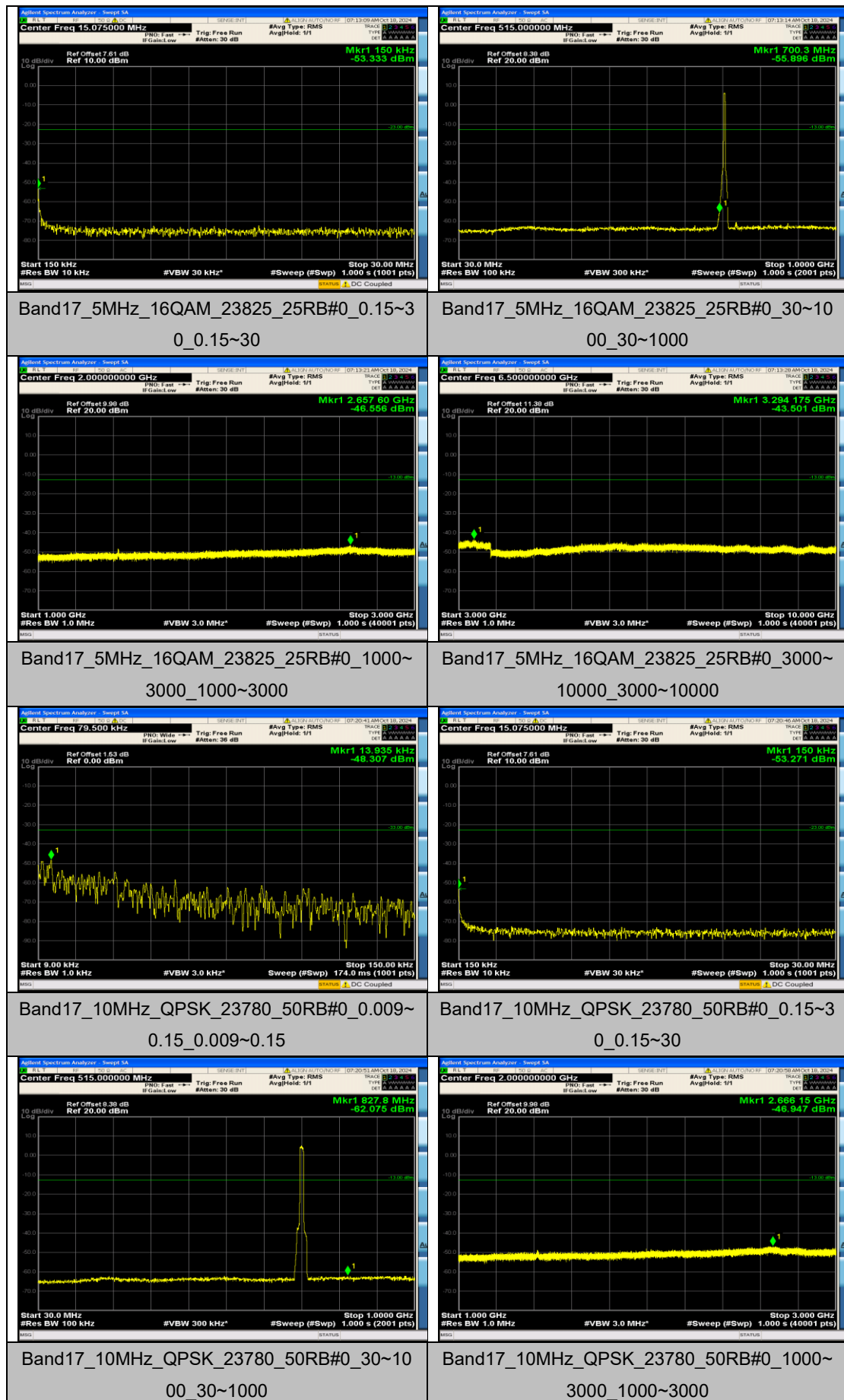
Test Graphs

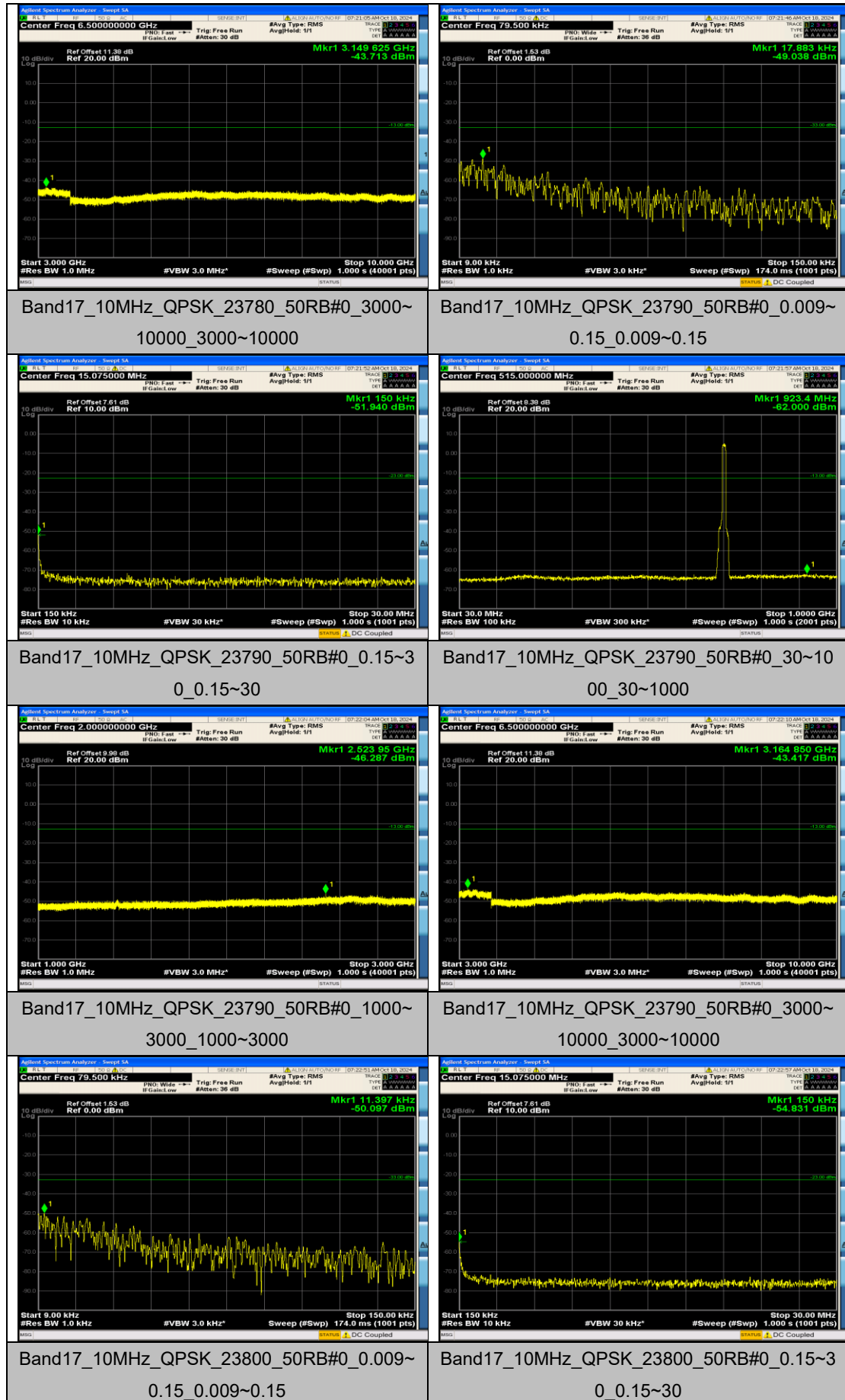


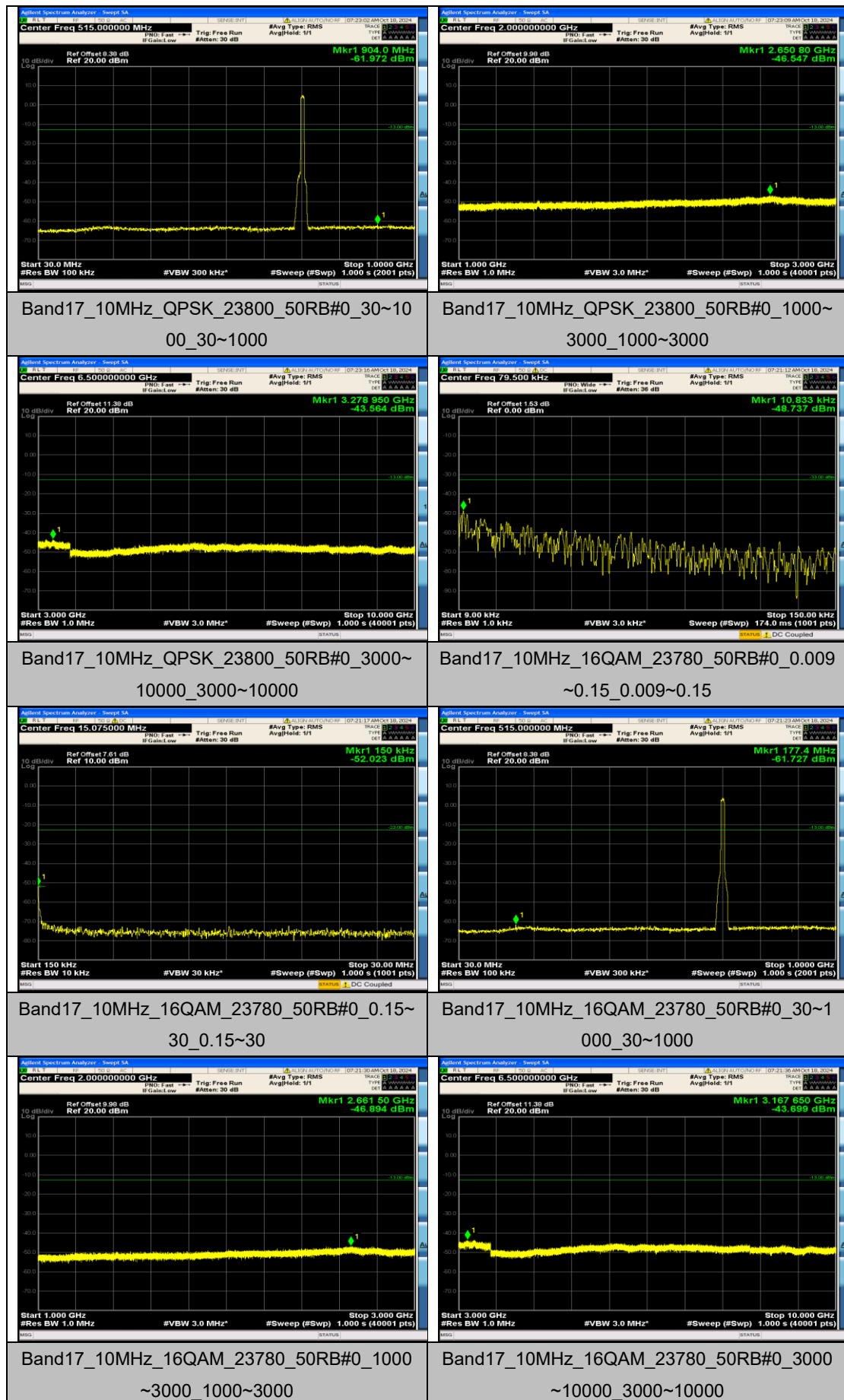


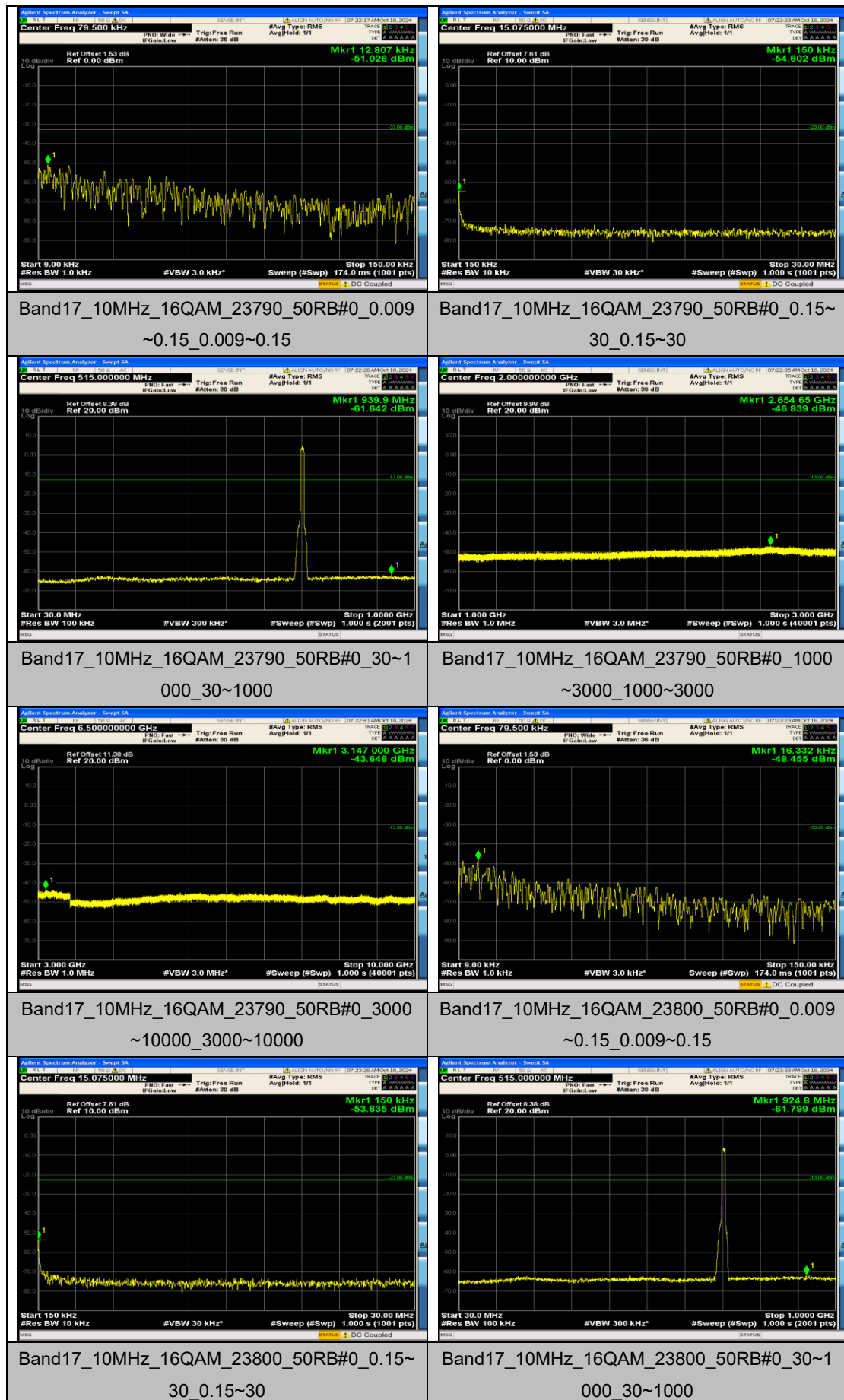


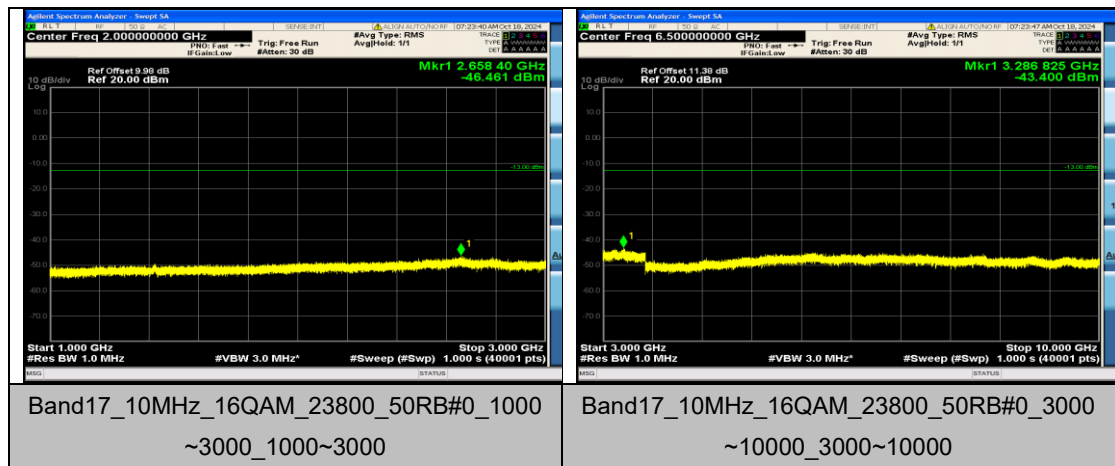












Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandName	Bandwidth	Modulation	Channel	RBcfg	VolValue	TempValue	ValueHz	ValuePpm	Limit	Verdict

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	NV	-30	1.97	0.002788	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	-20	2.25	0.003185	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	-10	2.56	0.003623	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	0	-1.47	-0.002081	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	10	-1.93	-0.002732	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	20	3.35	0.004742	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	30	3.18	0.004501	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	40	1.89	0.002675	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	50	-2.20	-0.003114	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-30	5.11	0.007197	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-20	4.31	0.006070	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-10	5.71	0.008042	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	0	6.24	0.008789	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	10	5.05	0.007113	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	20	3.32	0.004676	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	30	4.94	0.006958	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	40	3.76	0.005296	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	50	3.96	0.005577	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-30	1.49	0.002088	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-20	1.34	0.001878	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-10	3.02	0.004233	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	0	1.23	0.001724	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	10	3.29	0.004611	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	20	2.56	0.003588	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	30	2.72	0.003812	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	40	2.53	0.003546	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	50	2.19	0.003069	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-30	1.63	0.002307	±2.5	PASS

Band17	5MHz	16QAM	23755	25RB#0	NV	-20	2.05	0.002902	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-10	-1.99	-0.002817	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	0	1.79	0.002534	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	10	-1.46	-0.002067	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	20	2.46	0.003482	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	30	-2.42	-0.003425	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	40	-1.52	-0.002151	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	50	3.00	0.004246	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-30	2.90	0.004085	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-20	3.36	0.004732	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-10	2.42	0.003408	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	0	-0.87	-0.001225	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	10	1.32	0.001859	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	20	2.20	0.003099	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	30	2.25	0.003169	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	40	2.66	0.003746	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	50	2.65	0.003732	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-30	3.33	0.004667	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-20	-1.72	-0.002411	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-10	2.39	0.003350	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	0	1.73	0.002425	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	10	3.28	0.004597	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	20	2.43	0.003406	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	30	2.40	0.003364	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	40	3.28	0.004597	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	50	3.09	0.004331	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-1.85	-0.002609	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-1.13	-0.001594	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	-1.44	-0.002031	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	1.53	0.002158	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-3.09	-0.004358	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-3.06	-0.004316	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-1.86	-0.002623	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	0.99	0.001396	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-1.89	-0.002666	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	2.82	0.003972	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	3.26	0.004592	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	1.76	0.002479	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	2.85	0.004014	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-3.06	-0.004310	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	2.42	0.003408	±2.5	PASS

Band17	10MHz	QPSK	23790	50RB#0	NV	30	-1.72	-0.002423	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-1.92	-0.002704	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	1.32	0.001859	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	2.27	0.003193	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-1.69	-0.002377	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	3.09	0.004346	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	1.54	0.002166	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-2.86	-0.004023	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	2.17	0.003052	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-2.12	-0.002982	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-2.53	-0.003558	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	1.14	0.001603	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	1.56	0.002200	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	1.95	0.002750	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	-3.58	-0.005049	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	1.36	0.001918	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	1.69	0.002384	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-1.22	-0.001721	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	1.59	0.002243	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-1.27	-0.001791	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-1.66	-0.002341	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	2.98	0.004197	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-2.16	-0.003042	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	2.25	0.003169	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-1.97	-0.002775	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-1.80	-0.002535	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	1.44	0.002028	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-2.35	-0.003310	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	1.43	0.002014	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	1.76	0.002479	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	1.72	0.002419	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	2.46	0.003460	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	-1.62	-0.002278	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-2.39	-0.003361	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	2.42	0.003404	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-2.52	-0.003544	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-1.79	-0.002518	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	1.09	0.001533	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-1.79	-0.002518	±2.5	PASS