

Appendix for WIFI 2.4GHz

Product Name: InTOUCH04A-AllyW

Model No: InAIO040A

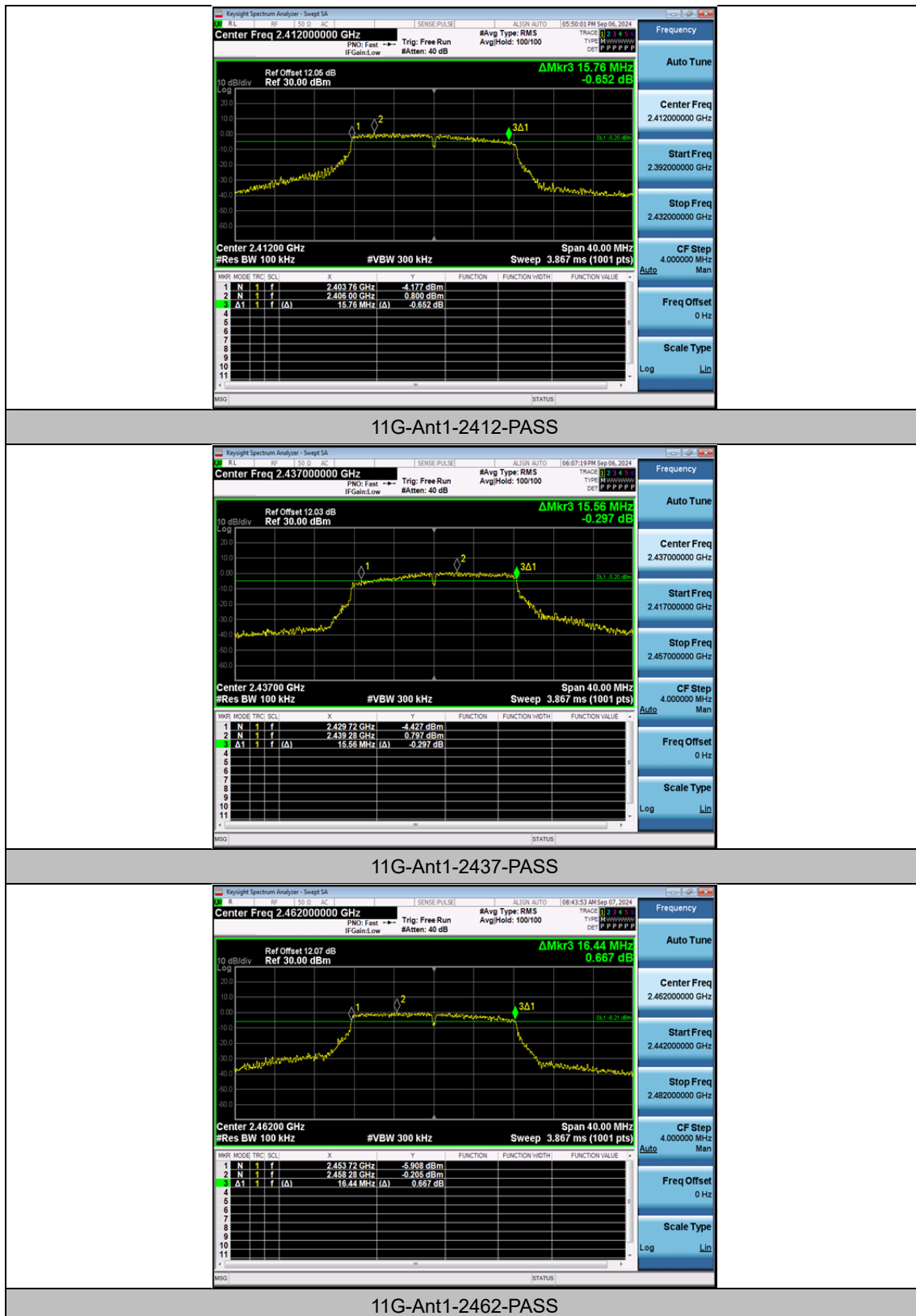
Appendix A: DTS Bandwidth

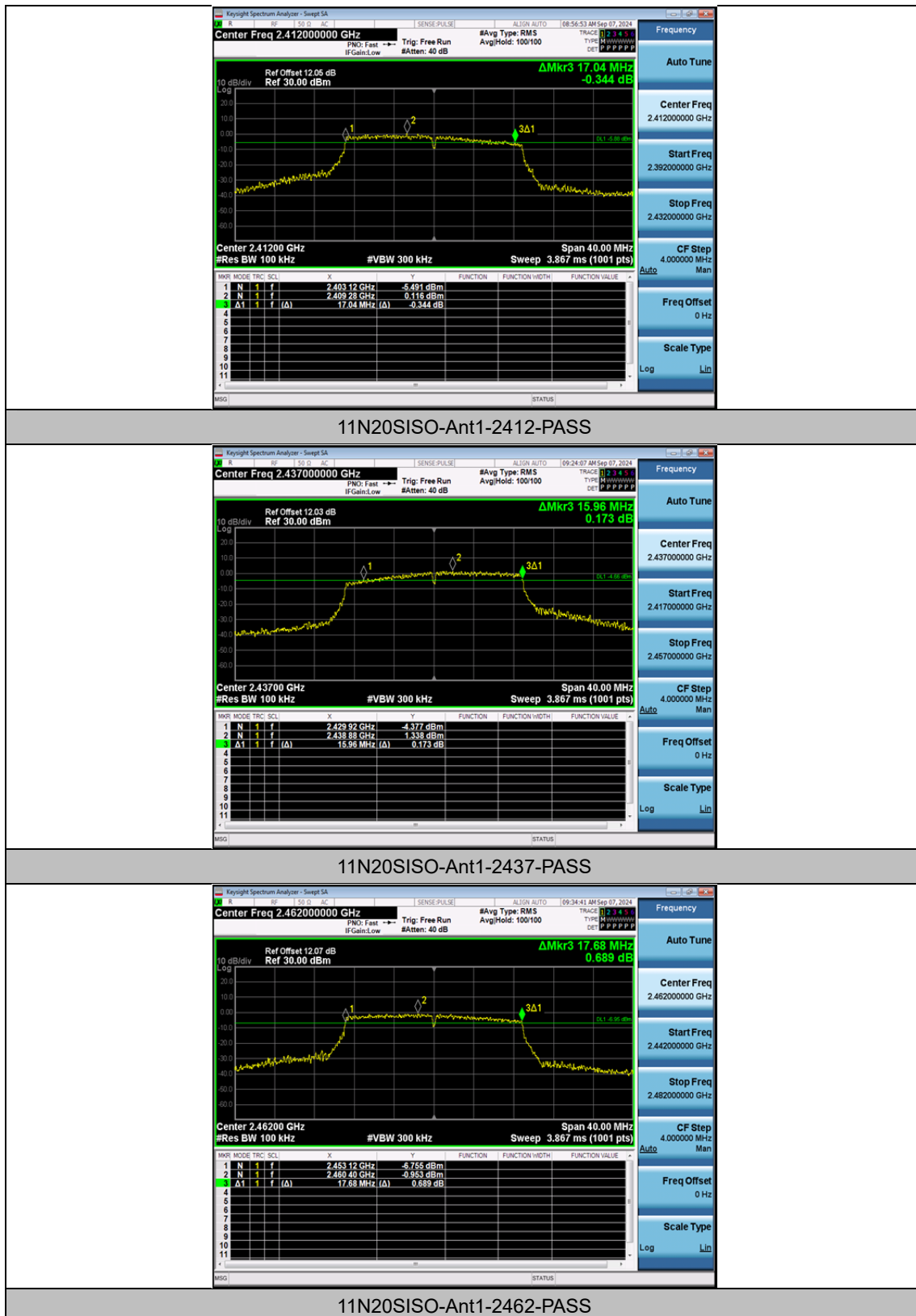
Test Result

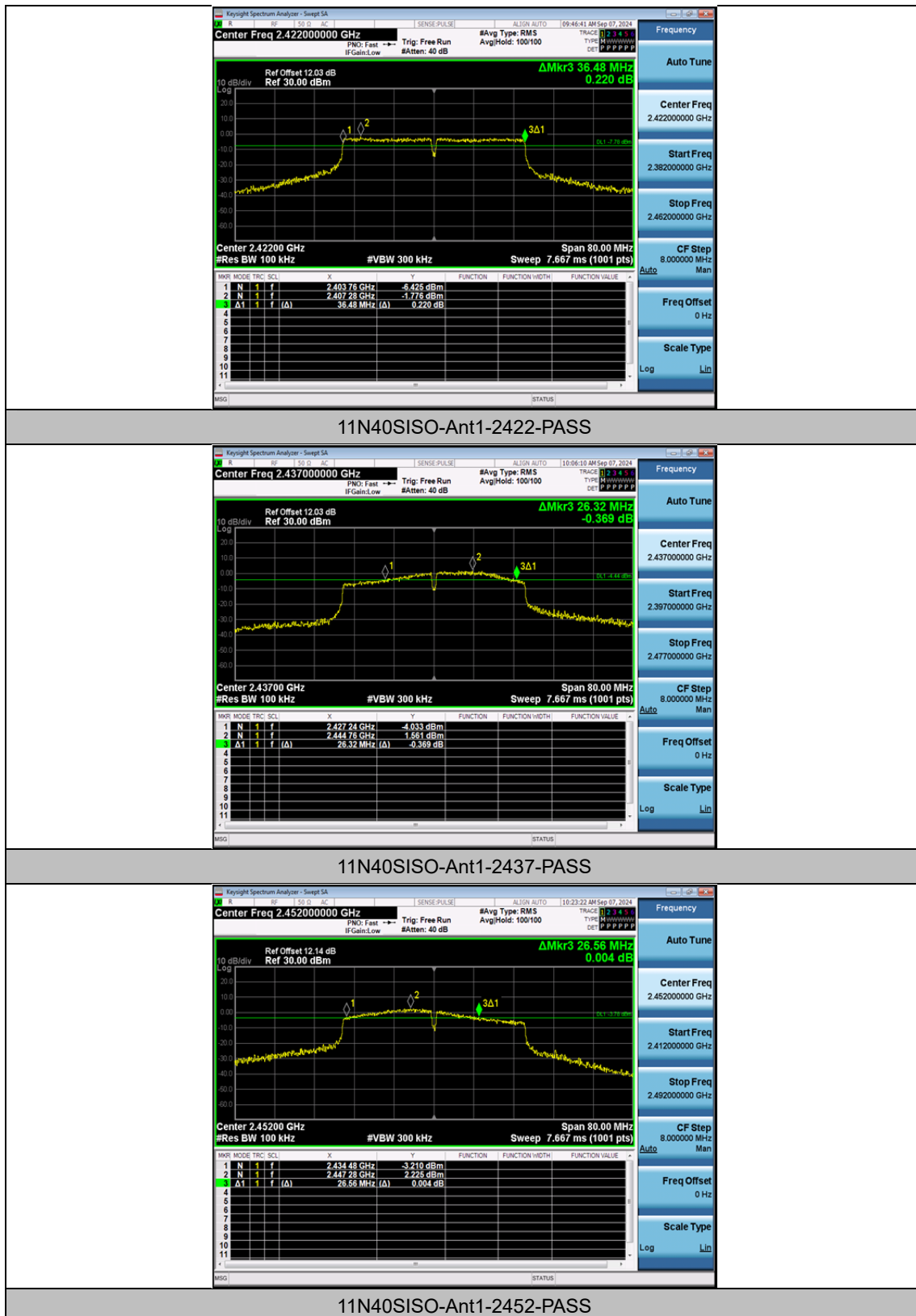
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.480	2416.040	0.5	PASS
11B	Ant1	2437	8.080	2433.480	2441.560	0.5	PASS
11B	Ant1	2462	8.560	2457.480	2466.040	0.5	PASS
11G	Ant1	2412	15.760	2403.760	2419.520	0.5	PASS
11G	Ant1	2437	15.560	2429.720	2445.280	0.5	PASS
11G	Ant1	2462	16.440	2453.720	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.040	2403.120	2420.160	0.5	PASS
11N20SISO	Ant1	2437	15.960	2429.920	2445.880	0.5	PASS
11N20SISO	Ant1	2462	17.680	2453.120	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.480	2403.760	2440.240	0.5	PASS
11N40SISO	Ant1	2437	26.320	2427.240	2453.560	0.5	PASS
11N40SISO	Ant1	2452	26.560	2434.480	2461.040	0.5	PASS

Test Graphs









Appendix B: Maximum conducted output power

Test Result Peak

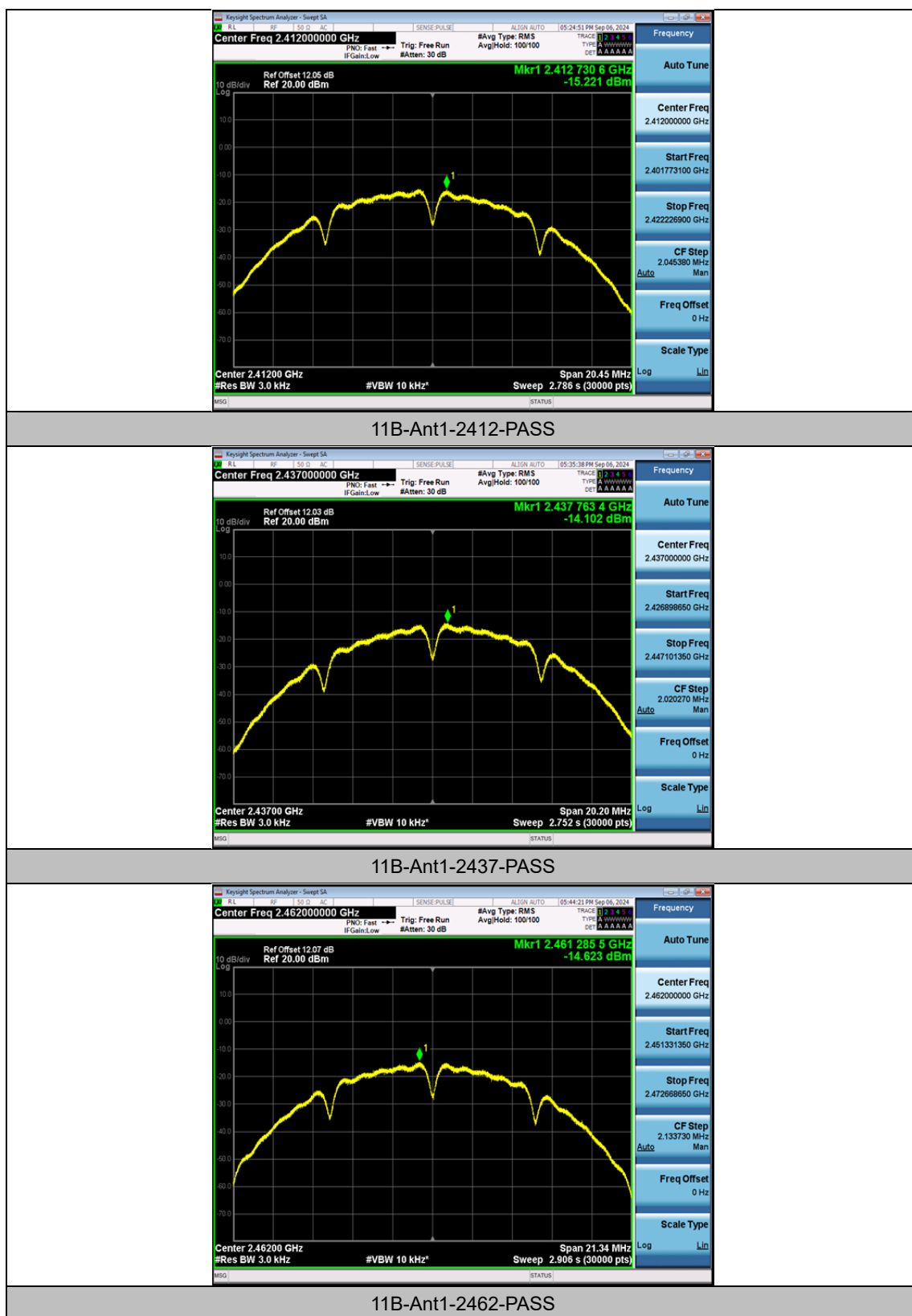
TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	17.04	≤30.00	PASS
11B	Ant1	2437	17.12	≤30.00	PASS
11B	Ant1	2462	17.27	≤30.00	PASS
11G	Ant1	2412	13.79	≤30.00	PASS
11G	Ant1	2437	14.24	≤30.00	PASS
11G	Ant1	2462	14.37	≤30.00	PASS
11N20SISO	Ant1	2412	13.52	≤30.00	PASS
11N20SISO	Ant1	2437	15.10	≤30.00	PASS
11N20SISO	Ant1	2462	13.64	≤30.00	PASS
11N40SISO	Ant1	2422	15.49	≤30.00	PASS
11N40SISO	Ant1	2437	17.11	≤30.00	PASS
11N40SISO	Ant1	2452	16.13	≤30.00	PASS

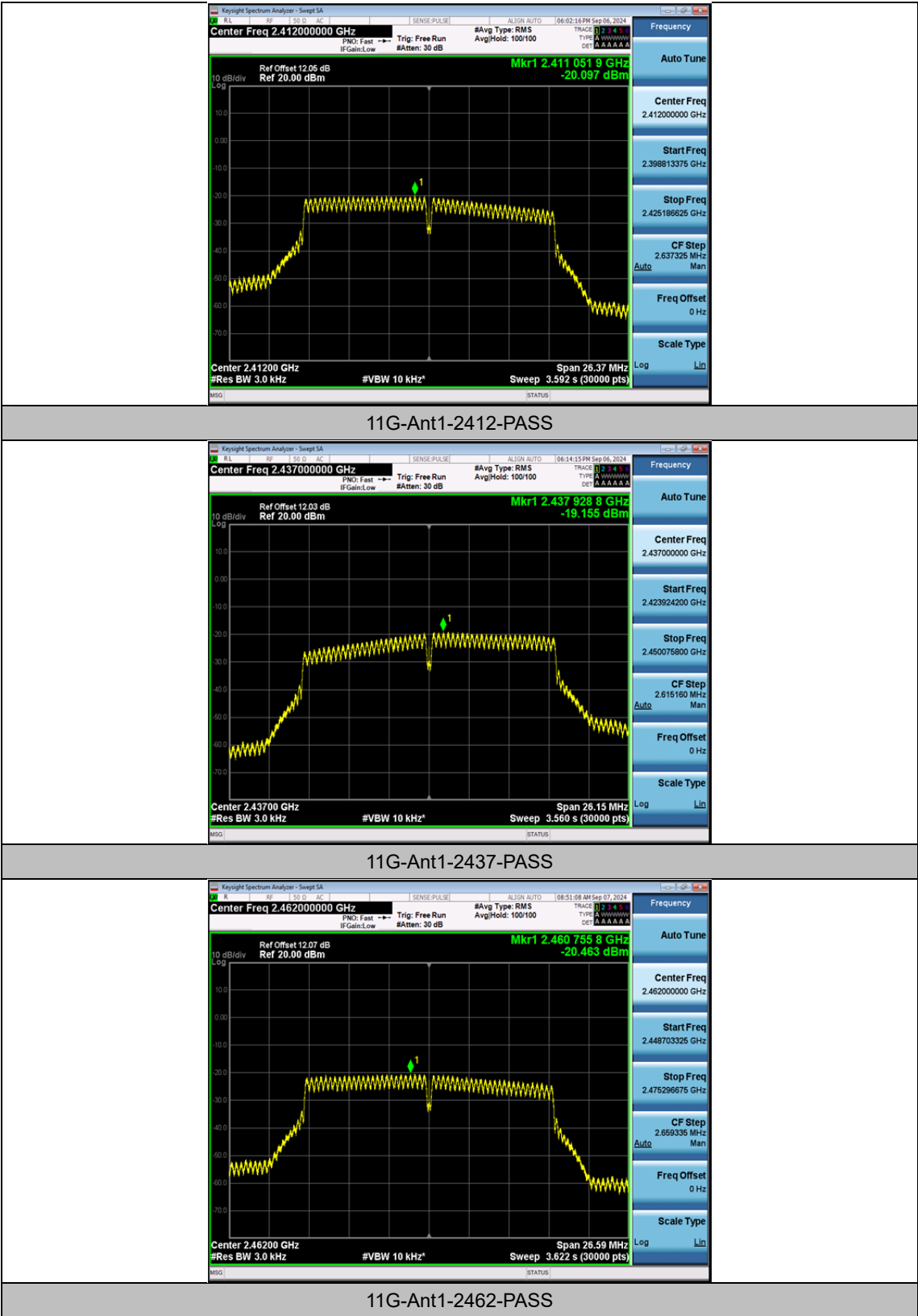
Appendix C: Maximum power spectral density

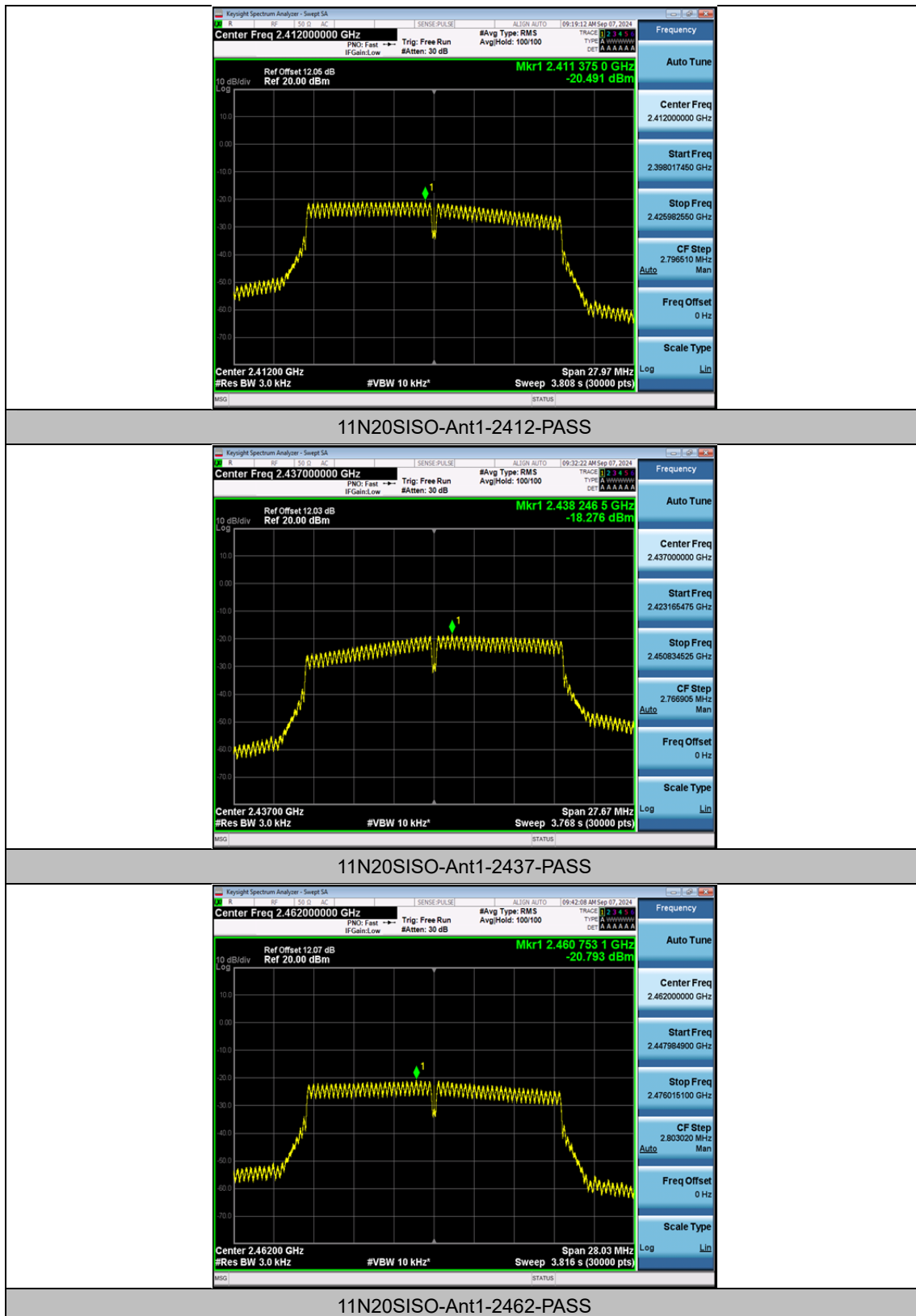
Test Result

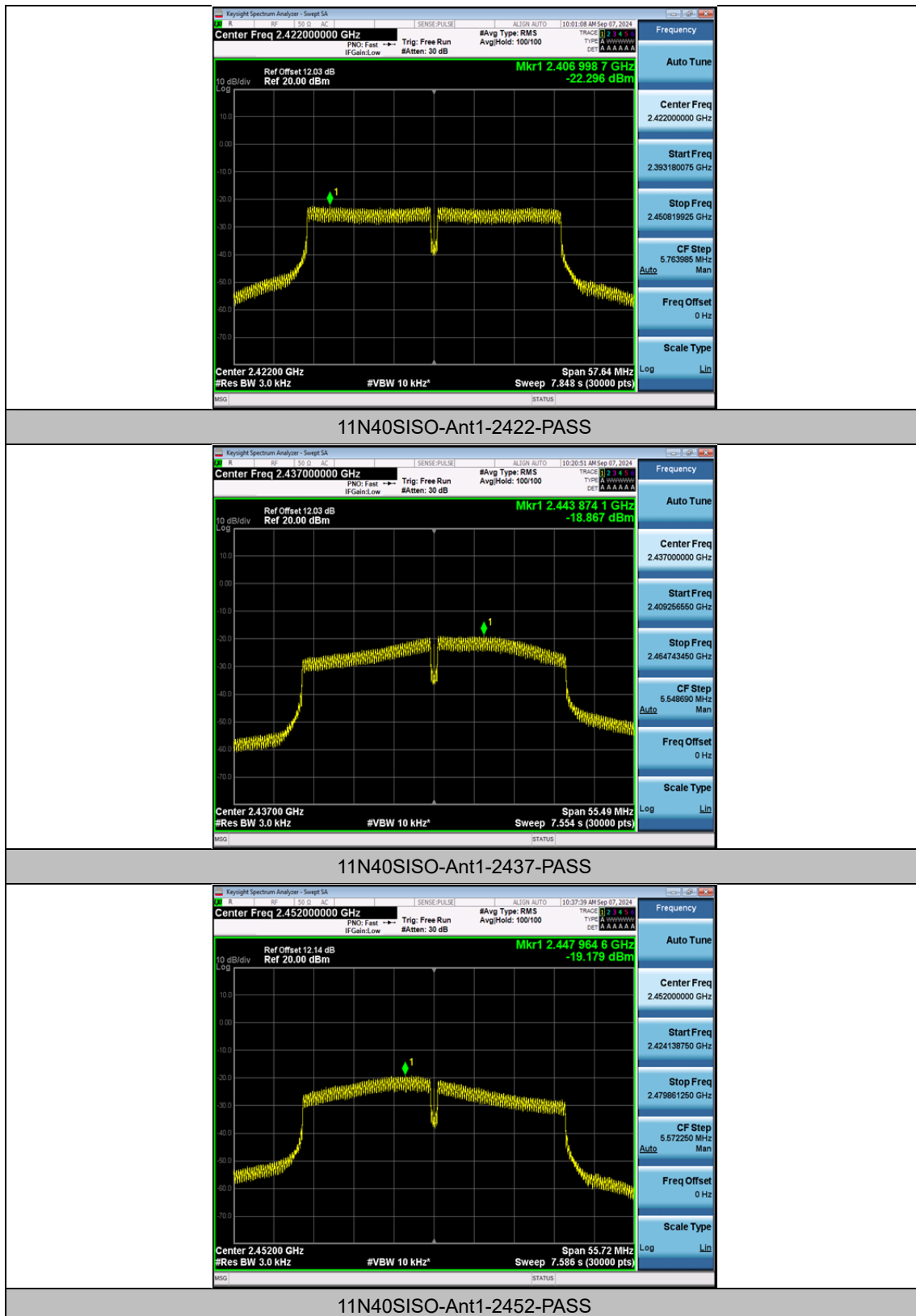
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.22	≤8.00	PASS
11B	Ant1	2437	-14.10	≤8.00	PASS
11B	Ant1	2462	-14.62	≤8.00	PASS
11G	Ant1	2412	-20.10	≤8.00	PASS
11G	Ant1	2437	-19.16	≤8.00	PASS
11G	Ant1	2462	-20.46	≤8.00	PASS
11N20SISO	Ant1	2412	-20.49	≤8.00	PASS
11N20SISO	Ant1	2437	-18.28	≤8.00	PASS
11N20SISO	Ant1	2462	-20.79	≤8.00	PASS
11N40SISO	Ant1	2422	-22.30	≤8.00	PASS
11N40SISO	Ant1	2437	-18.87	≤8.00	PASS
11N40SISO	Ant1	2452	-19.18	≤8.00	PASS

Test Graphs







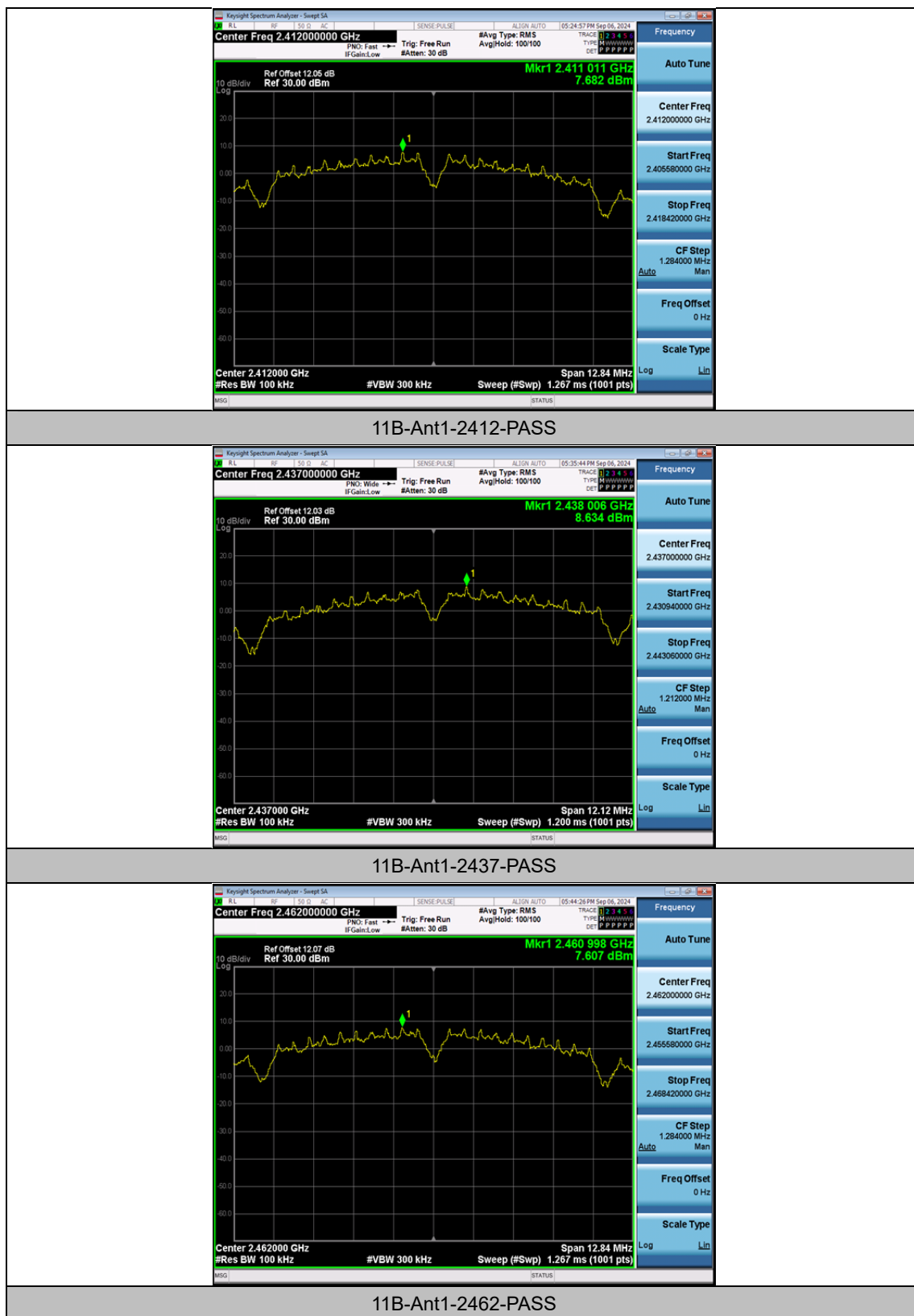


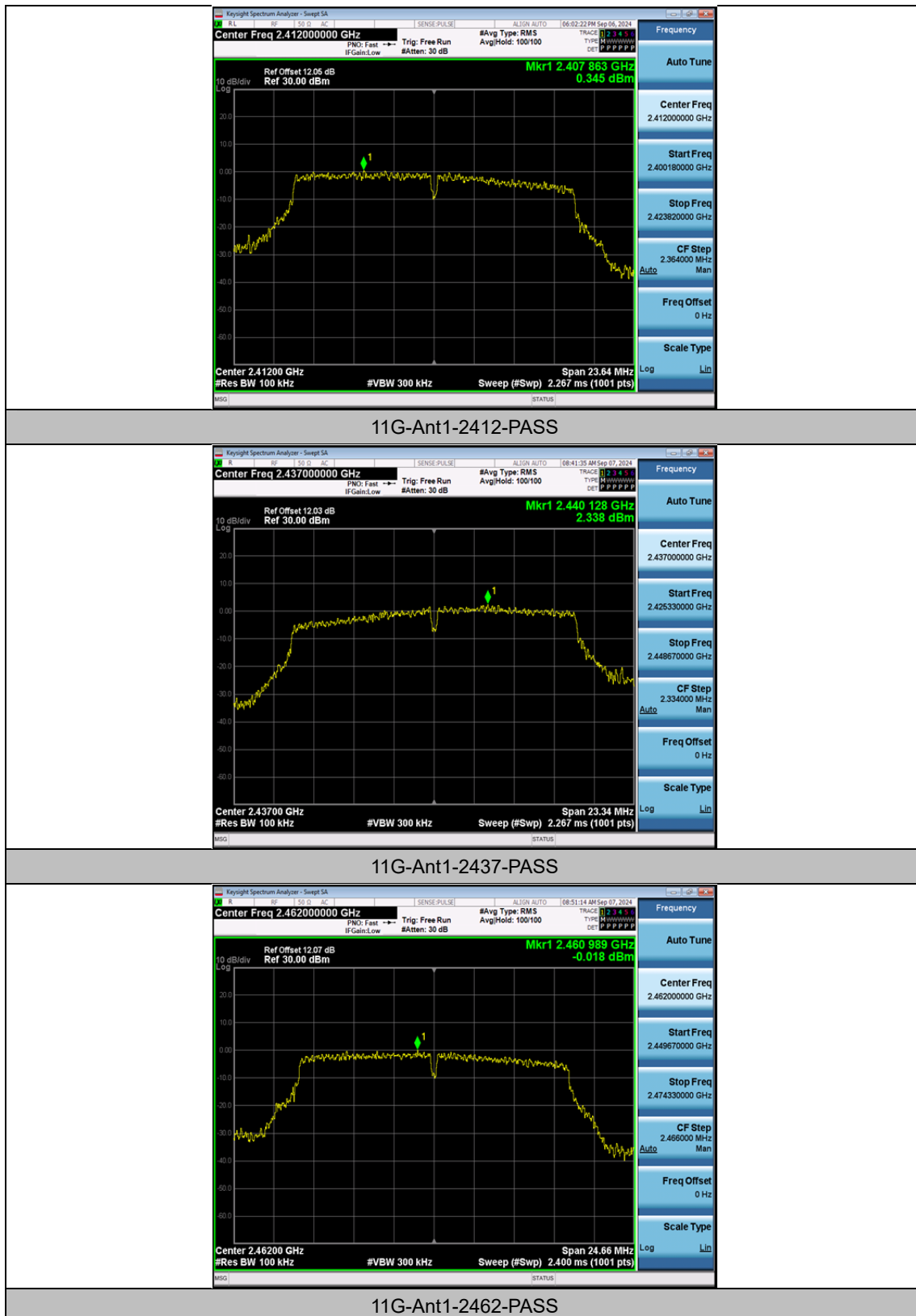
Appendix D: Reference level measurement

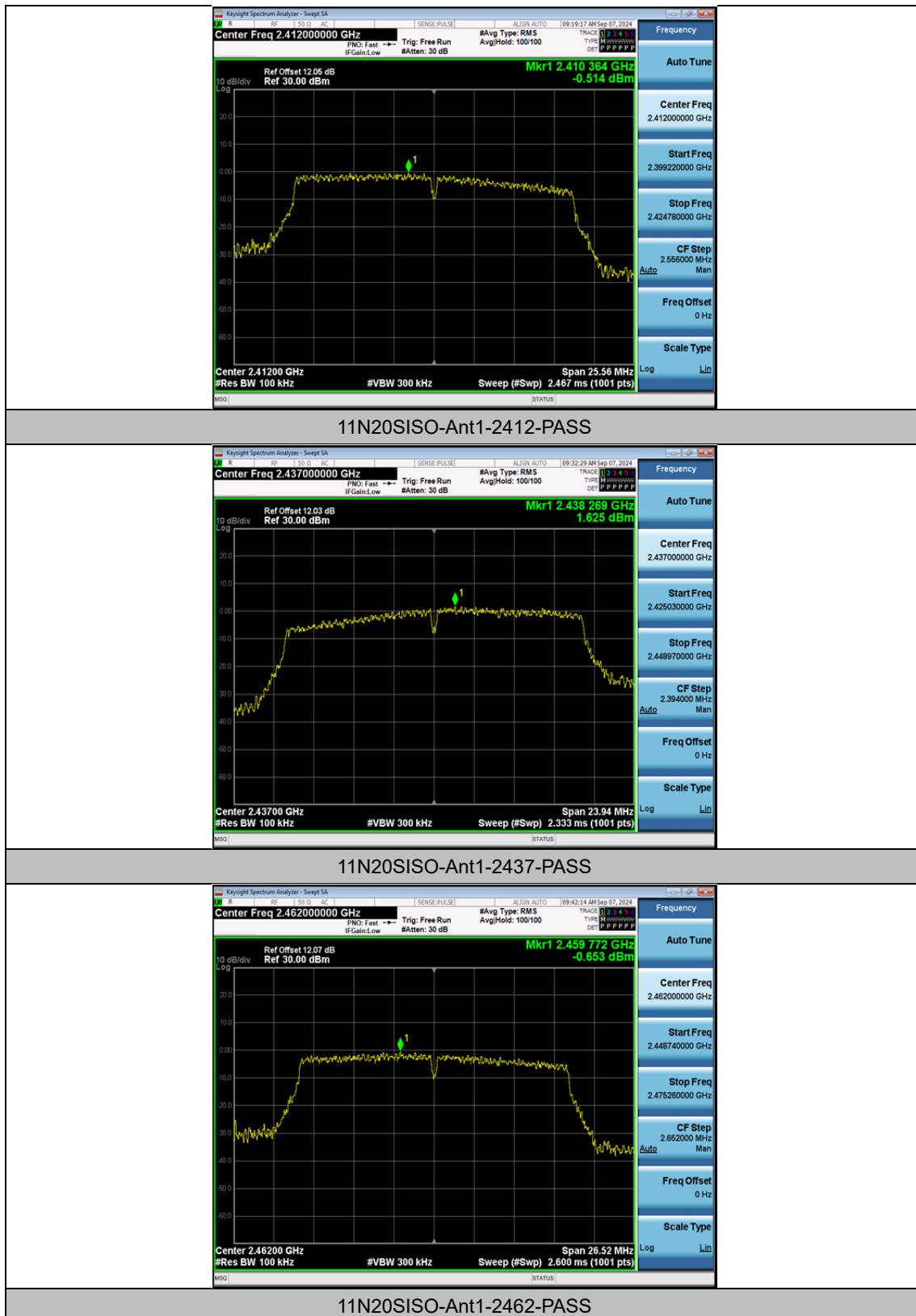
Test Result

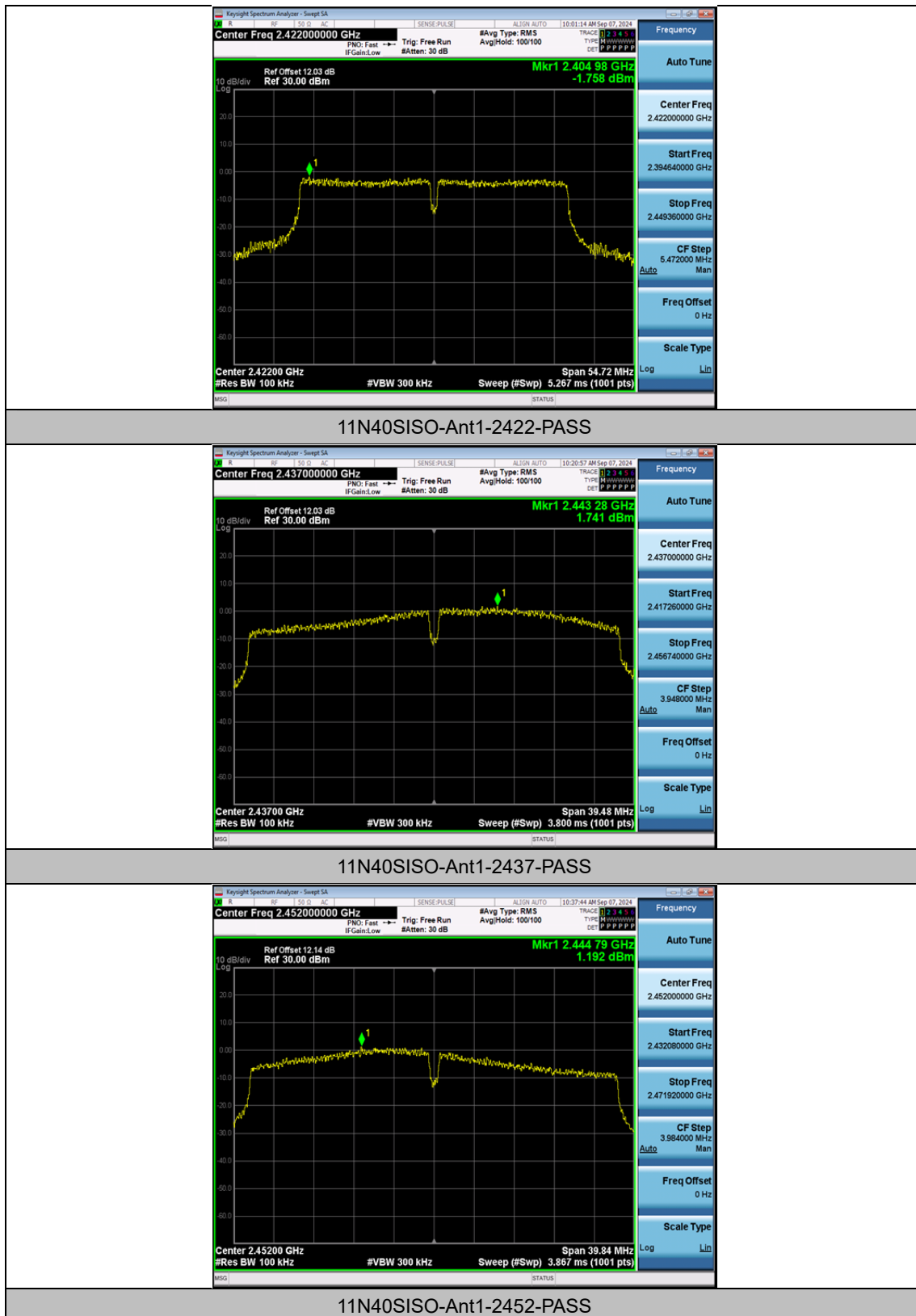
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2411.01	7.68
11B	Ant1	2437	2438.01	8.63
11B	Ant1	2462	2461.00	7.61
11G	Ant1	2412	2407.86	0.35
11G	Ant1	2437	2440.13	2.34
11G	Ant1	2462	2460.99	-0.02
11N20SISO	Ant1	2412	2410.36	-0.51
11N20SISO	Ant1	2437	2438.27	1.63
11N20SISO	Ant1	2462	2459.77	-0.65
11N40SISO	Ant1	2422	2404.98	-1.76
11N40SISO	Ant1	2437	2443.28	1.74
11N40SISO	Ant1	2452	2444.79	1.19

Test Graphs









Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.68	-34.23	≤-22.32	PASS
11B	Ant1	High	2462	7.61	-47.36	≤-22.39	PASS
11G	Ant1	Low	2412	0.35	-38.2	≤-29.65	PASS
11G	Ant1	High	2462	-0.02	-46.33	≤-30.02	PASS
11N20SISO	Ant1	Low	2412	-0.51	-37.64	≤-30.51	PASS
11N20SISO	Ant1	High	2462	-0.65	-45.55	≤-30.65	PASS
11N40SISO	Ant1	Low	2422	-1.76	-33.9	≤-31.76	PASS
11N40SISO	Ant1	High	2452	1.19	-38.5	≤-28.81	PASS

Test Graphs

