

Appendix for WIFI 2.4GHz

Product Name: Combo Module

Model No: EL3394-P

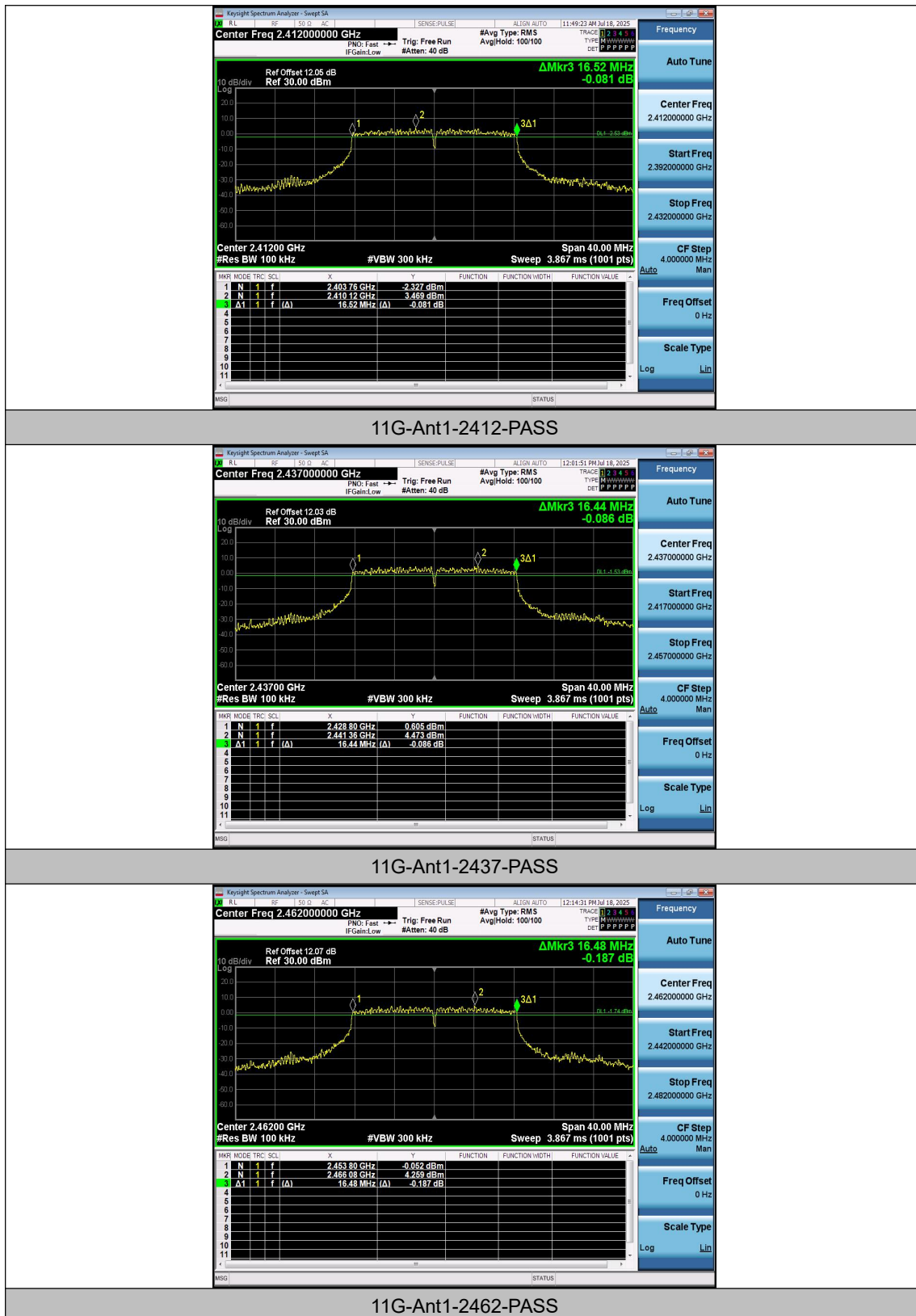
Appendix A: DTS Bandwidth

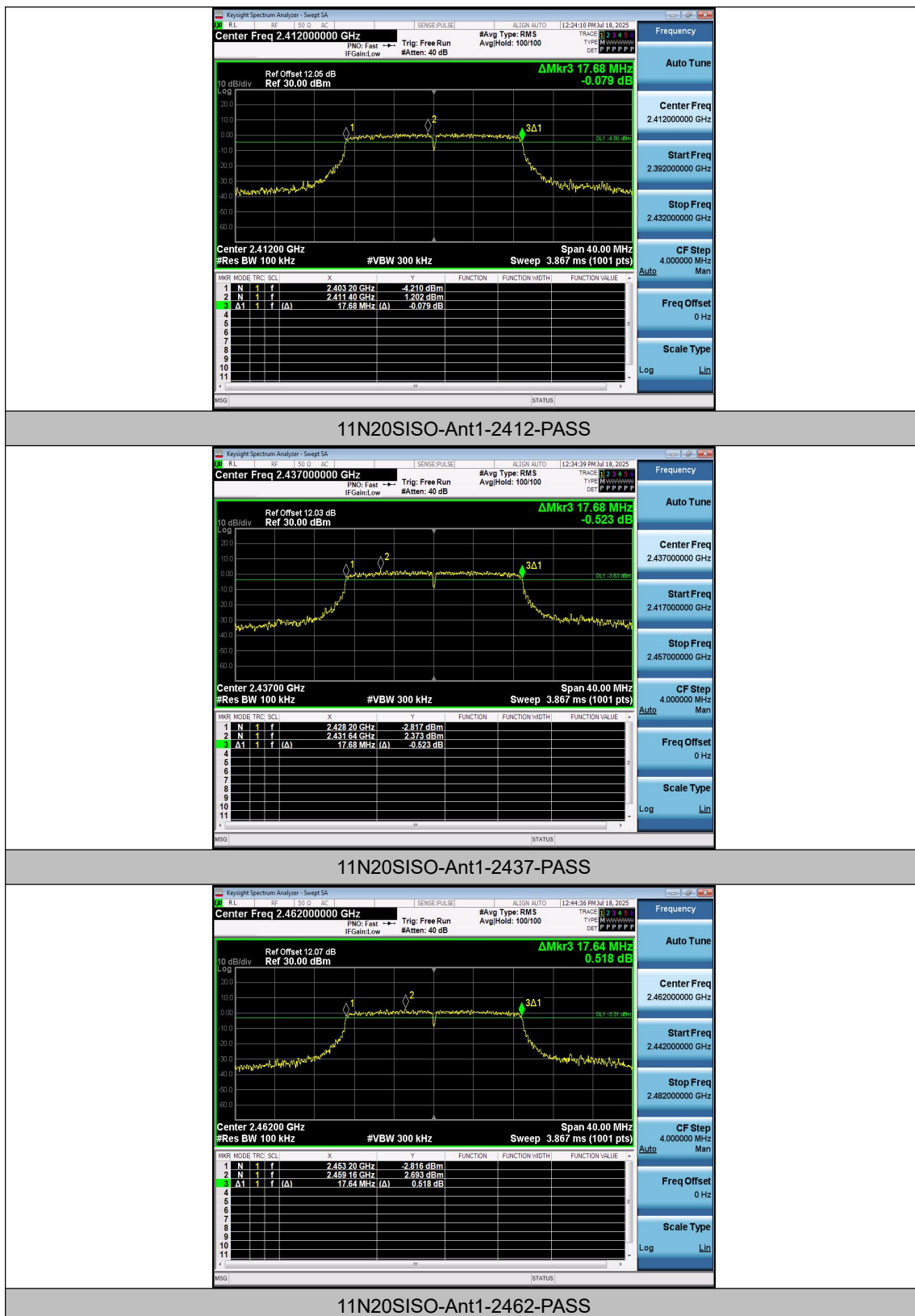
Test Result

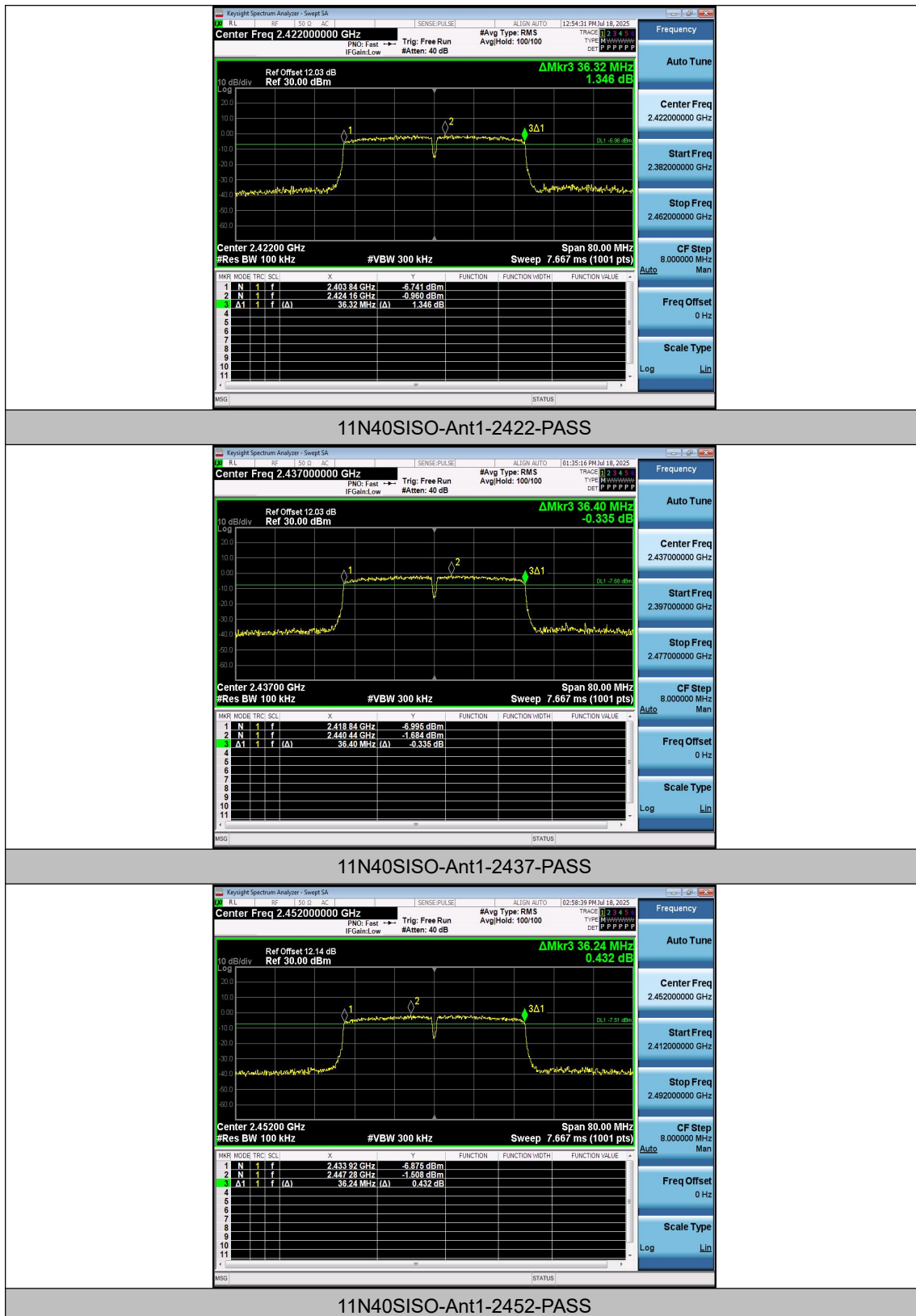
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.640	2407.680	2416.320	0.5	PASS
11B	Ant1	2437	8.680	2432.680	2441.360	0.5	PASS
11B	Ant1	2462	8.640	2457.680	2466.320	0.5	PASS
11G	Ant1	2412	16.520	2403.760	2420.280	0.5	PASS
11G	Ant1	2437	16.440	2428.800	2445.240	0.5	PASS
11G	Ant1	2462	16.480	2453.800	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.680	2403.200	2420.880	0.5	PASS
11N20SISO	Ant1	2437	17.680	2428.200	2445.880	0.5	PASS
11N20SISO	Ant1	2462	17.640	2453.200	2470.840	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
11N40SISO	Ant1	2437	36.400	2418.840	2455.240	0.5	PASS
11N40SISO	Ant1	2452	36.240	2433.920	2470.160	0.5	PASS

Test Graphs









Appendix B: Maximum conducted output power

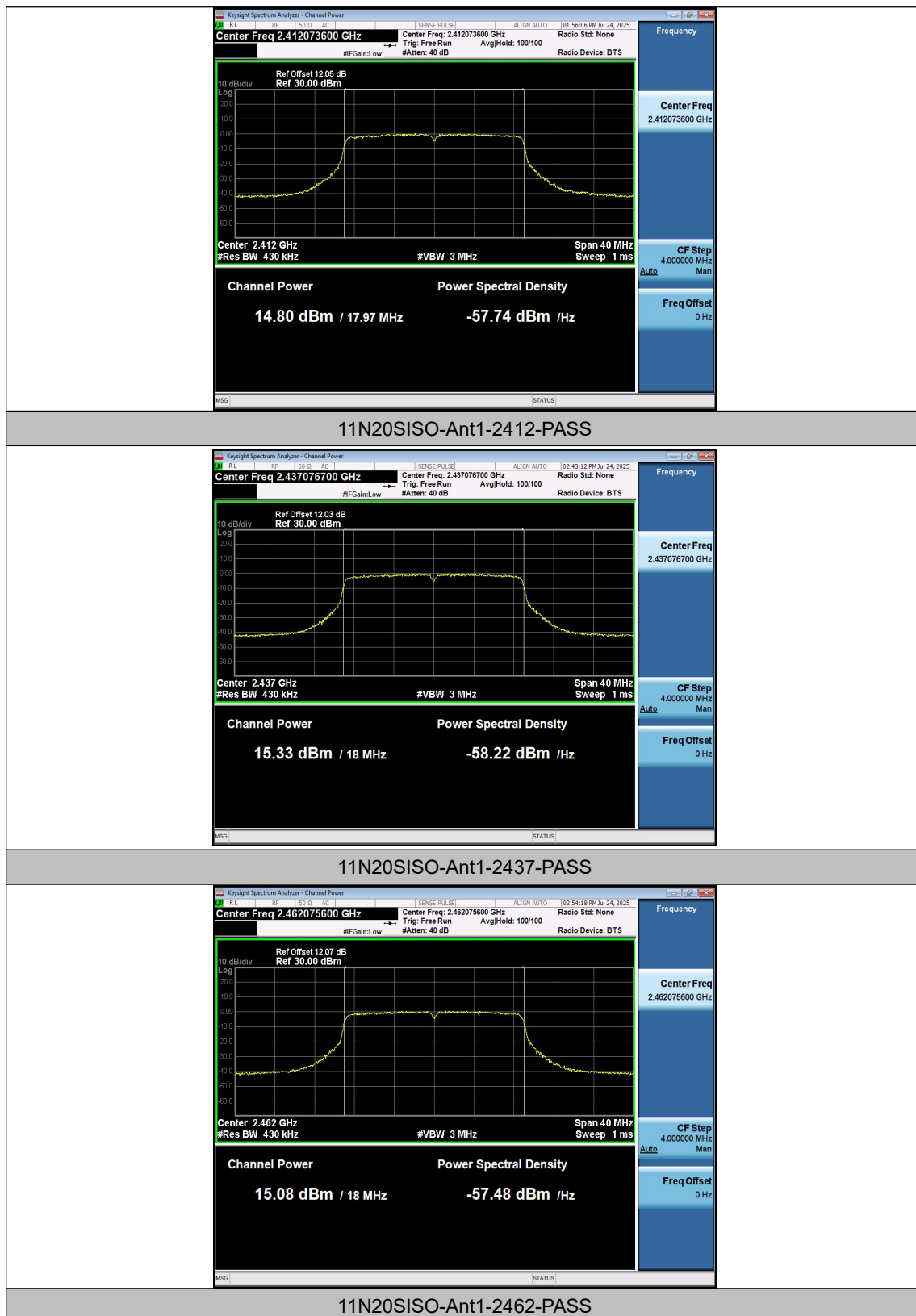
Test Result

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	17.27	100.00	0.00	17.27	≤30.00	PASS
11B	Ant1	2437	16.81	100.00	0.00	16.81	≤30.00	PASS
11B	Ant1	2462	17.32	100.00	0.00	17.32	≤30.00	PASS
11G	Ant1	2412	15.44	100.00	0.00	15.44	≤30.00	PASS
11G	Ant1	2437	15.33	100.00	0.00	15.33	≤30.00	PASS
11G	Ant1	2462	15.24	100.00	0.00	15.24	≤30.00	PASS
11N20SISO	Ant1	2412	14.80	100.00	0.00	14.80	≤30.00	PASS
11N20SISO	Ant1	2437	15.33	100.00	0.00	15.33	≤30.00	PASS
11N20SISO	Ant1	2462	15.08	100.00	0.00	15.08	≤30.00	PASS
11N40SISO	Ant1	2422	14.89	100.00	0.00	14.89	≤30.00	PASS
11N40SISO	Ant1	2437	14.57	100.00	0.00	14.57	≤30.00	PASS
11N40SISO	Ant1	2452	15.28	100.00	0.00	15.28	≤30.00	PASS

Test Graphs







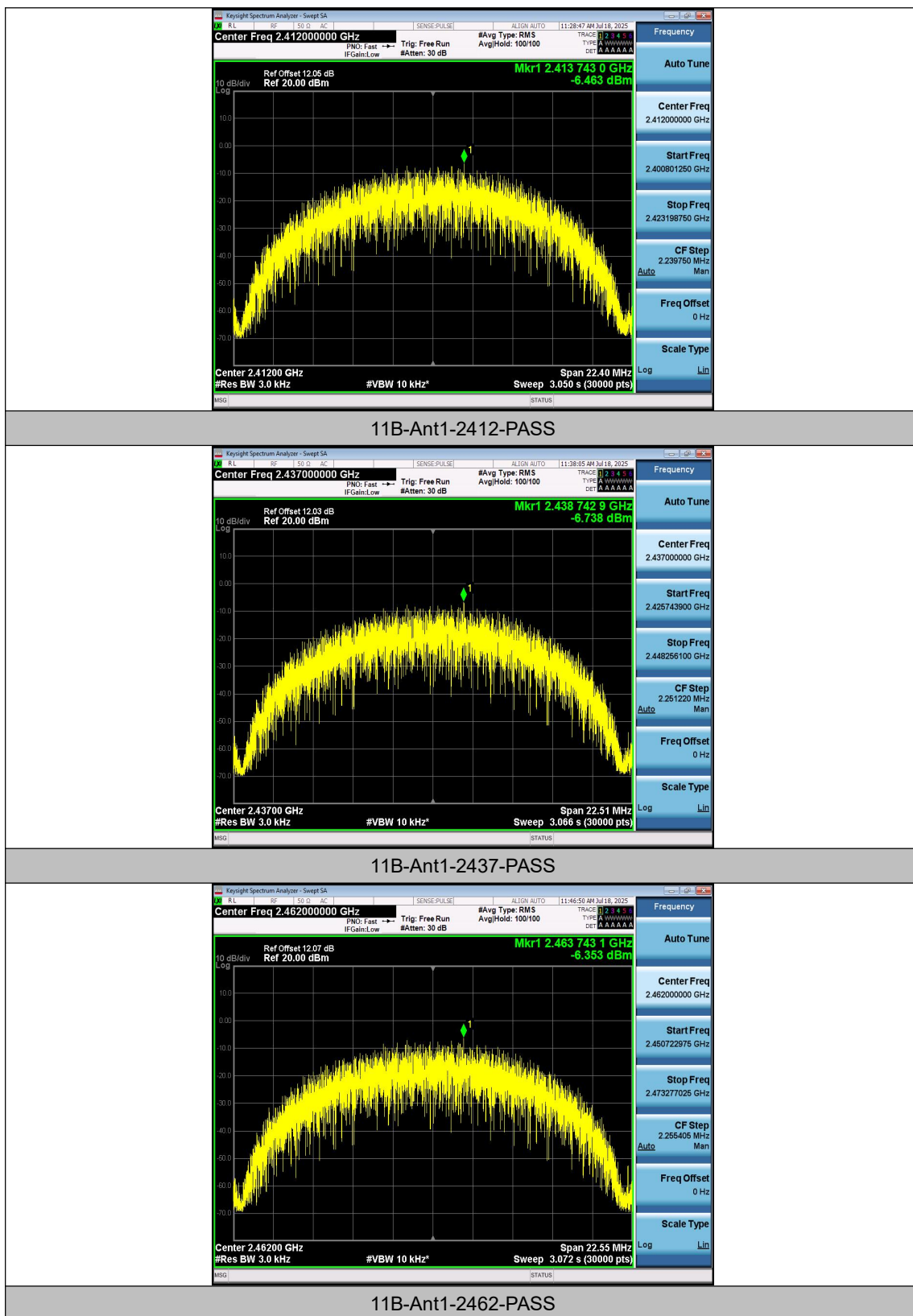


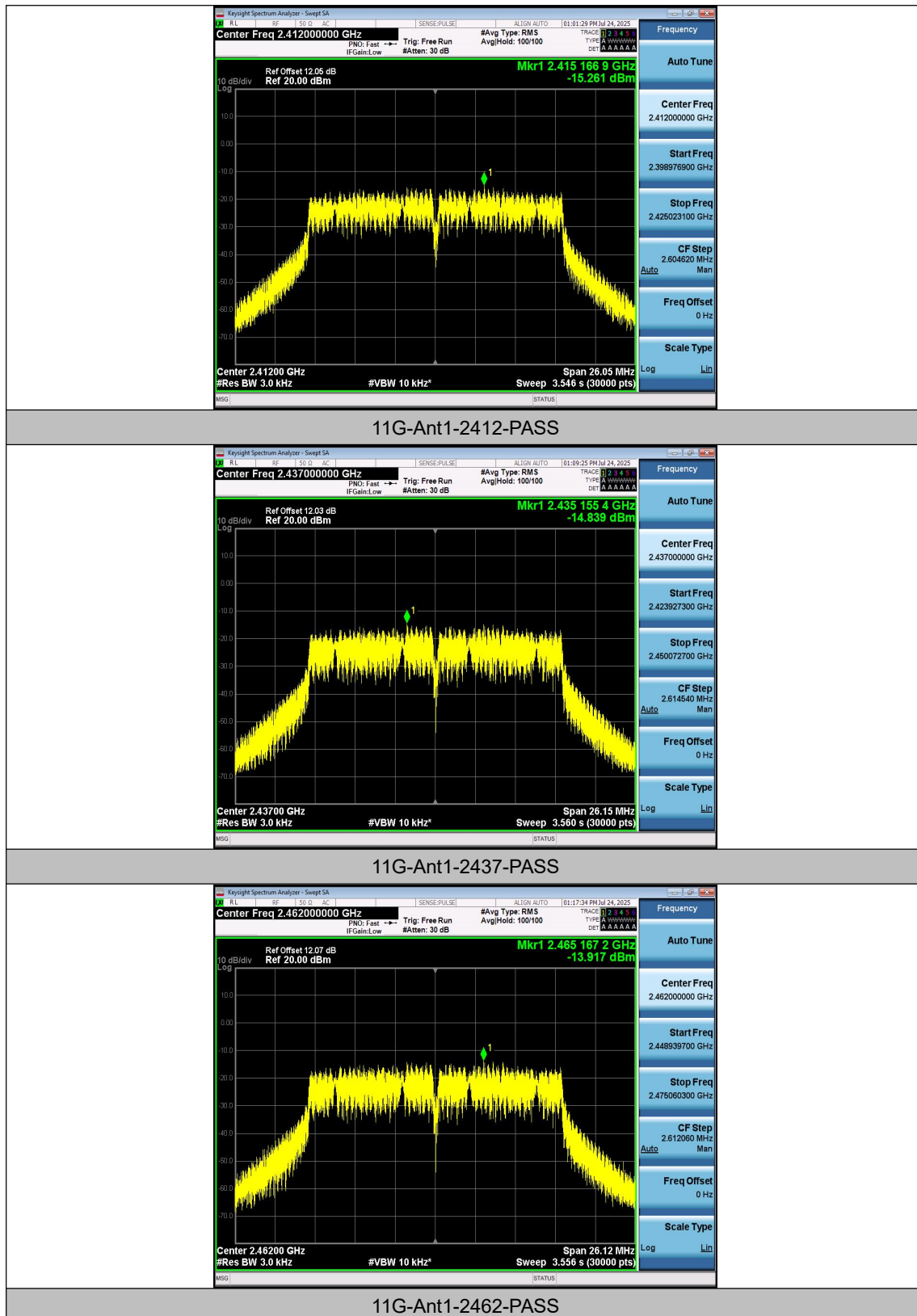
Appendix C: Maximum power spectral density

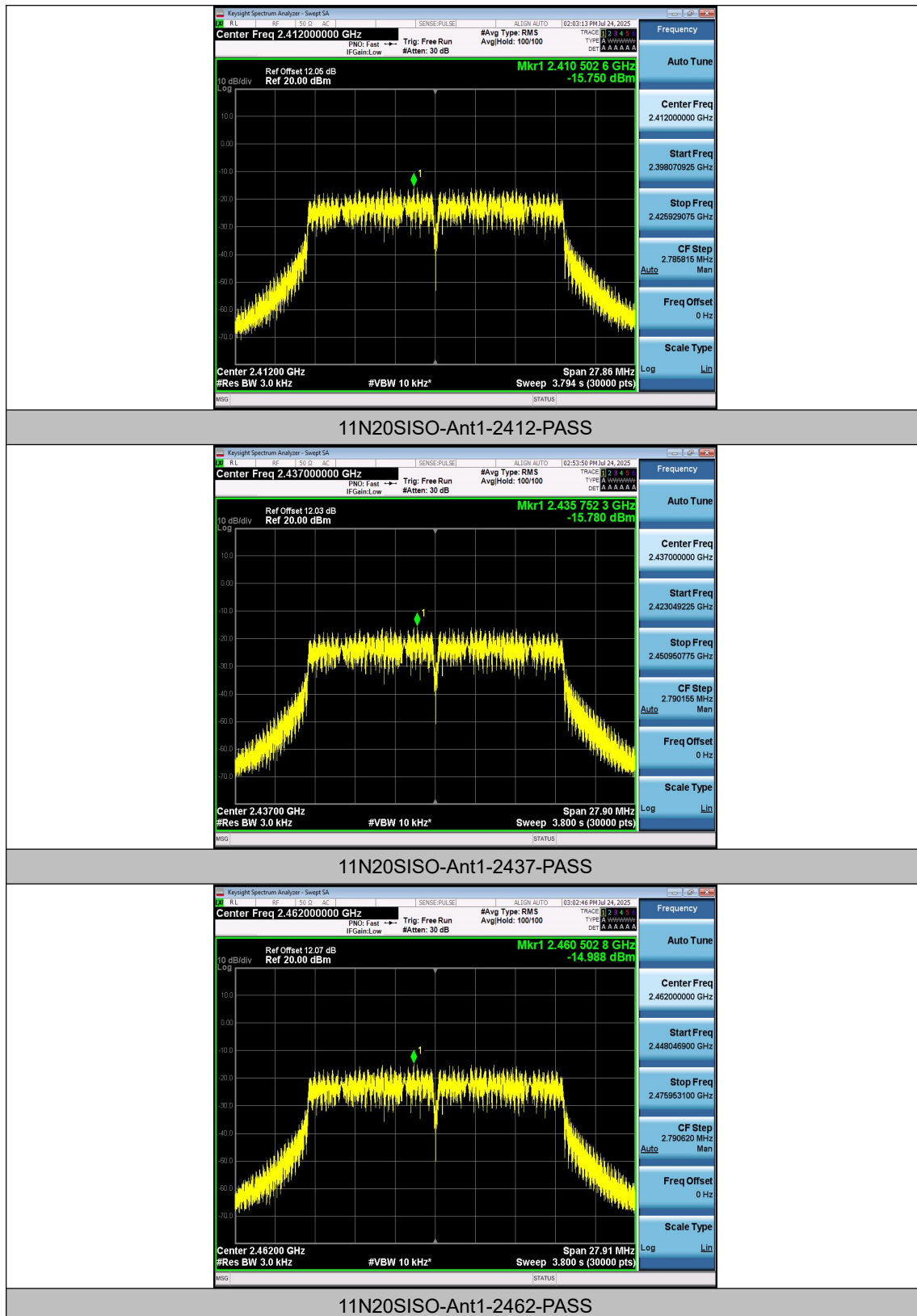
Test Result

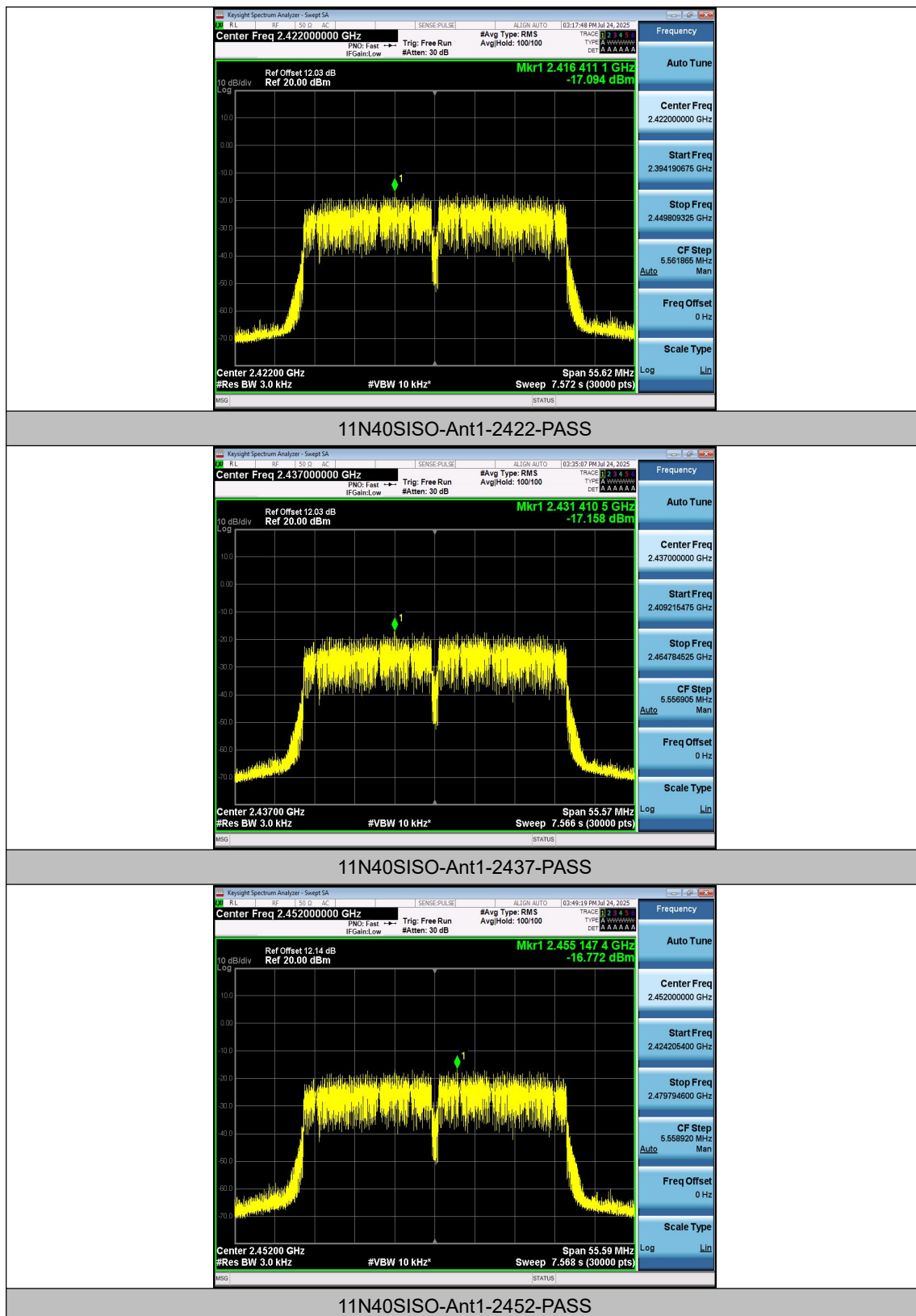
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.46	≤8.00	PASS
11B	Ant1	2437	-6.74	≤8.00	PASS
11B	Ant1	2462	-6.35	≤8.00	PASS
11G	Ant1	2412	-15.26	≤8.00	PASS
11G	Ant1	2437	-14.84	≤8.00	PASS
11G	Ant1	2462	-13.92	≤8.00	PASS
11N20SISO	Ant1	2412	-15.75	≤8.00	PASS
11N20SISO	Ant1	2437	-15.78	≤8.00	PASS
11N20SISO	Ant1	2462	-14.99	≤8.00	PASS
11N40SISO	Ant1	2422	-17.09	≤8.00	PASS
11N40SISO	Ant1	2437	-17.16	≤8.00	PASS
11N40SISO	Ant1	2452	-16.77	≤8.00	PASS

Test Graphs









Appendix D: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2411.79	7.81
11B	Ant1	2437	2435.58	7.65
11B	Ant1	2462	2460.57	8.14
11G	Ant1	2412	2410.14	3.74
11G	Ant1	2437	2441.39	4.41
11G	Ant1	2462	2466.38	4.23
11N20SISO	Ant1	2412	2415.39	1.69
11N20SISO	Ant1	2437	2434.16	2.37
11N20SISO	Ant1	2462	2459.14	2.28
11N40SISO	Ant1	2422	2417.91	-1.38
11N40SISO	Ant1	2437	2439.13	-1.36
11N40SISO	Ant1	2452	2454.17	-1.54

Test Graphs

