

Appendix for WIFI 2.4GHz

Product Name: Smart phone

Model No: Black 5

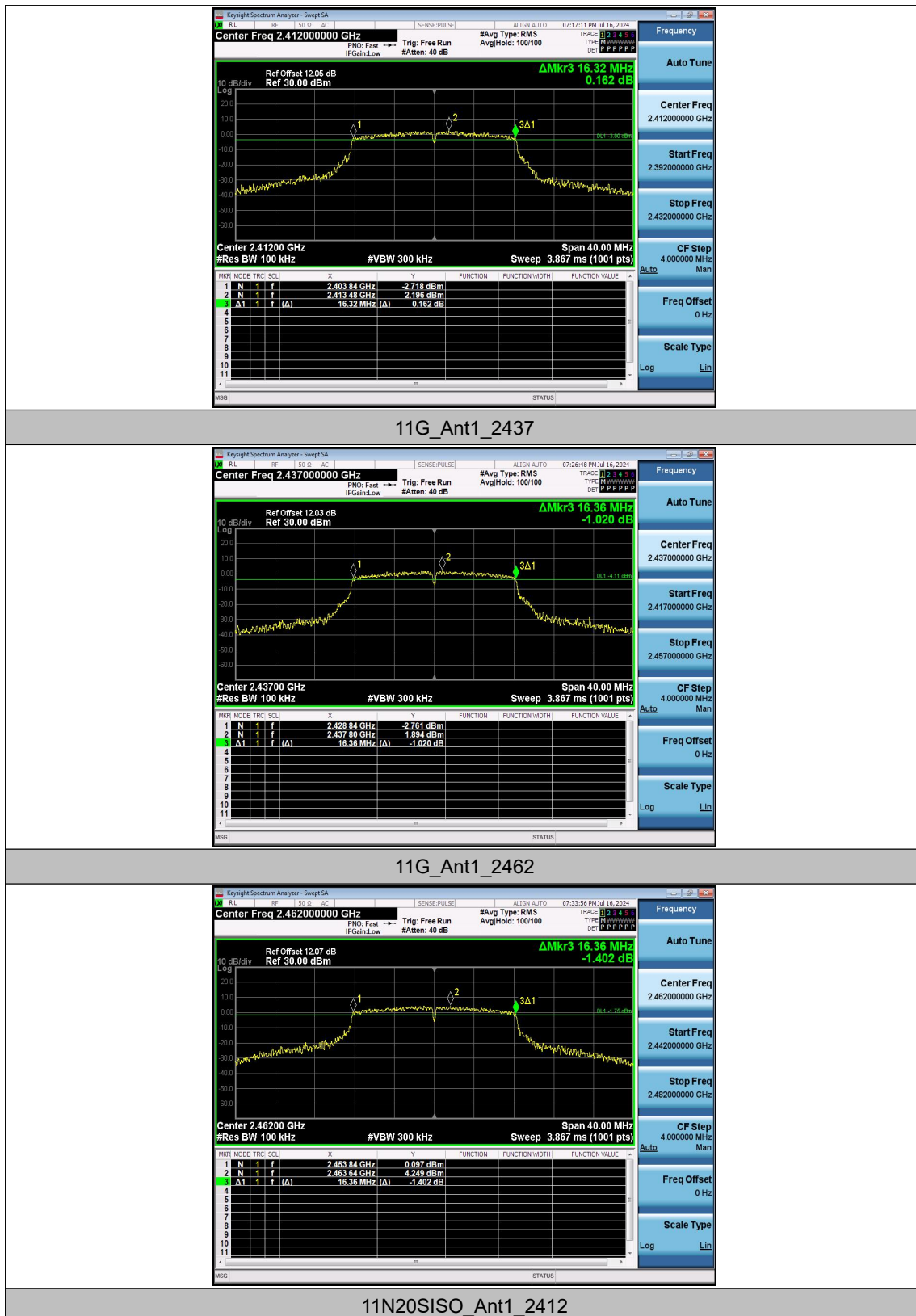
Appendix A: DTS Bandwidth

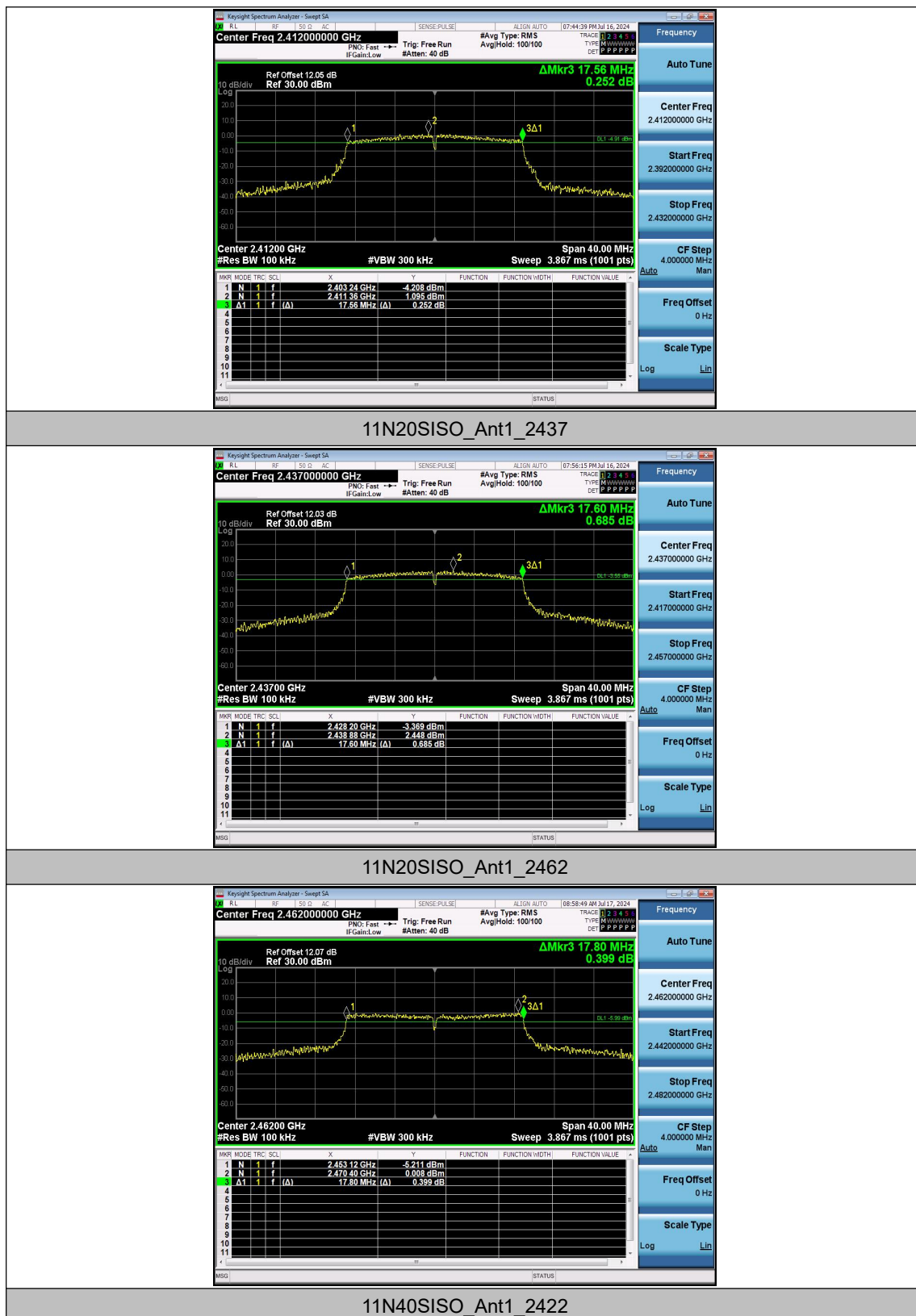
Test Result

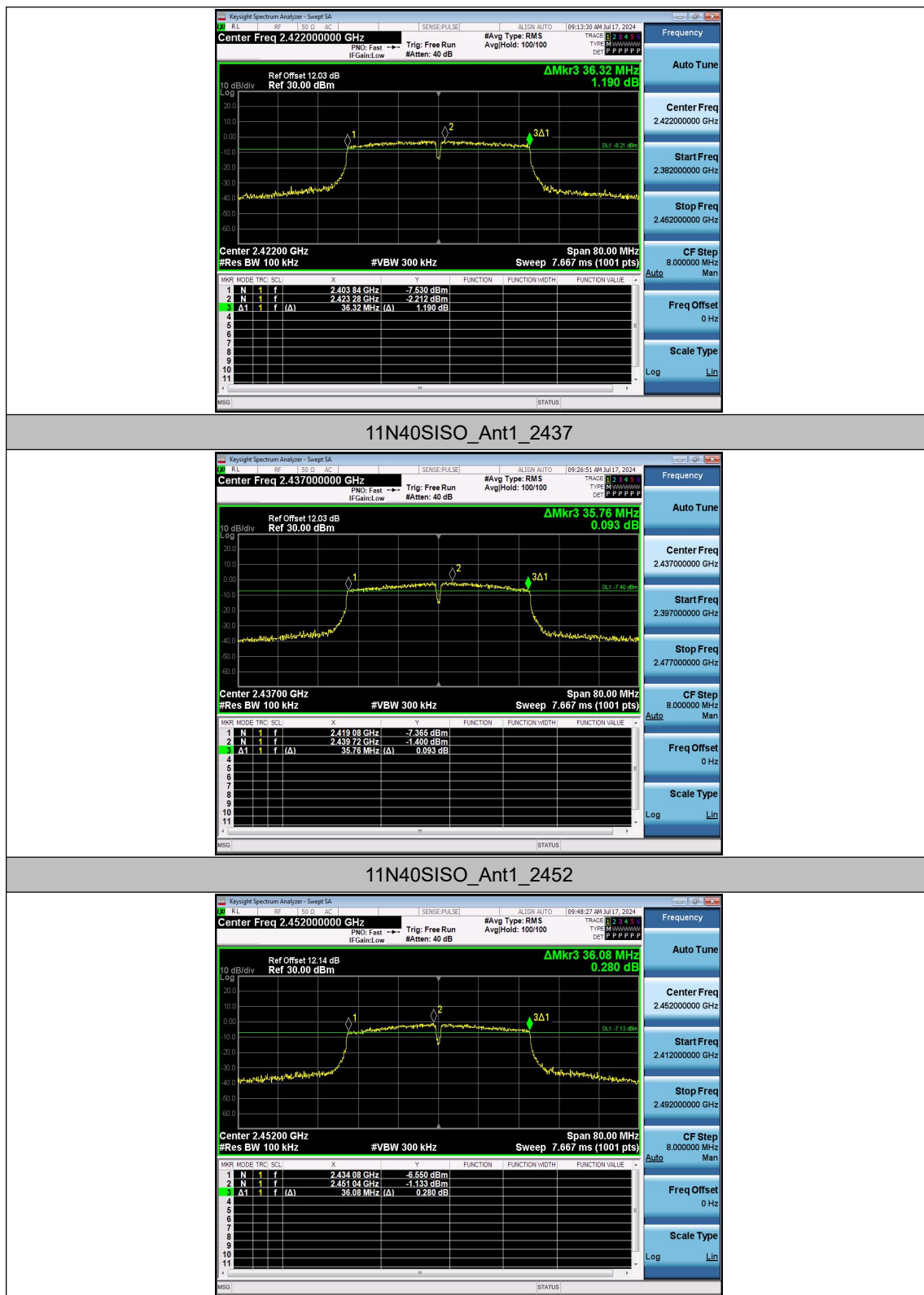
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.000	2408.040	2416.040	0.5	PASS
		2437	8.040	2433.000	2441.040	0.5	PASS
		2462	8.080	2457.960	2466.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.800	2453.120	2470.920	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
		2437	35.760	2419.080	2454.840	0.5	PASS
		2452	36.080	2434.080	2470.160	0.5	PASS

Test Graphs









Appendix B: Occupied Channel Bandwidth

Test Result

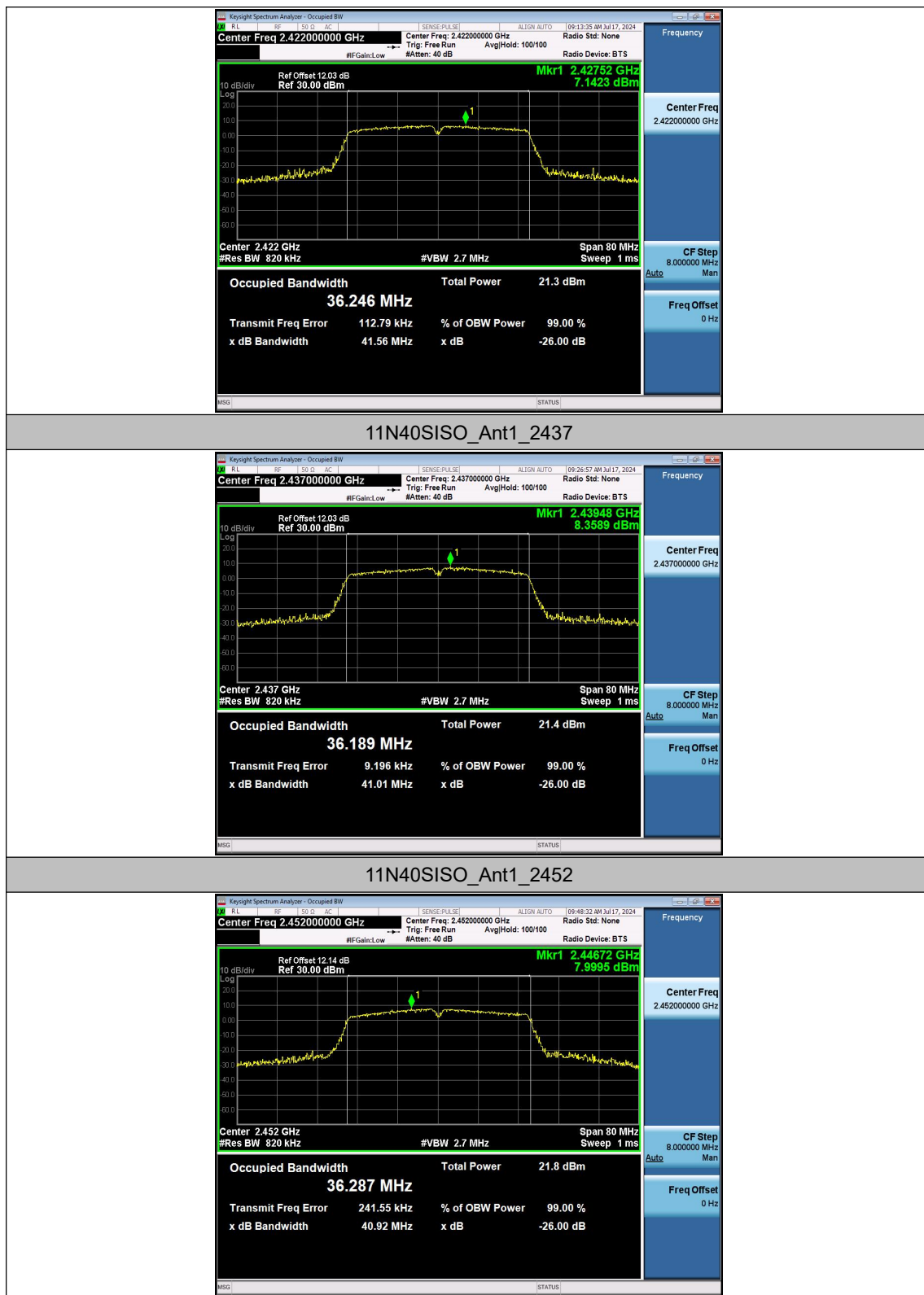
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.848	2405.5860	2418.4340	---	---
		2437	12.879	2430.6682	2443.5472	---	---
		2462	13.127	2455.4494	2468.5764	---	---
11G	Ant1	2412	16.967	2403.5543	2420.5213	---	---
		2437	16.880	2428.6356	2445.5156	---	---
		2462	17.098	2453.4323	2470.5303	---	---
11N20SISO	Ant1	2412	17.798	2403.1249	2420.9229	---	---
		2437	17.892	2428.1199	2446.0119	---	---
		2462	18.969	2452.6280	2471.5970	---	---
11N40SISO	Ant1	2422	36.246	2403.9898	2440.2358	---	---
		2437	36.189	2418.9147	2455.1037	---	---
		2452	36.287	2434.0981	2470.3851	---	---

Test Graphs









Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	17.16	≤30.00	PASS
		2437	17.78	≤30.00	PASS
		2462	18.55	≤30.00	PASS
11G	Ant1	2412	15.25	≤30.00	PASS
		2437	15.70	≤30.00	PASS
		2462	18.14	≤30.00	PASS
11N20SISO	Ant1	2412	14.23	≤30.00	PASS
		2437	16.49	≤30.00	PASS
		2462	14.64	≤30.00	PASS
11N40SISO	Ant1	2422	14.53	≤30.00	PASS
		2437	14.67	≤30.00	PASS
		2452	15.07	≤30.00	PASS

Receiver ON

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	12.53	≤30.00	PASS
		2437	13.34	≤30.00	PASS
		2462	14.15	≤30.00	PASS
11G	Ant1	2412	12.78	≤30.00	PASS
		2437	13.25	≤30.00	PASS
		2462	13.36	≤30.00	PASS
11N20SISO	Ant1	2412	12.17	≤30.00	PASS
		2437	12.66	≤30.00	PASS
		2462	13.36	≤30.00	PASS
11N40SISO	Ant1	2422	12.59	≤30.00	PASS
		2437	12.79	≤30.00	PASS
		2452	13.30	≤30.00	PASS

Hotspot ON

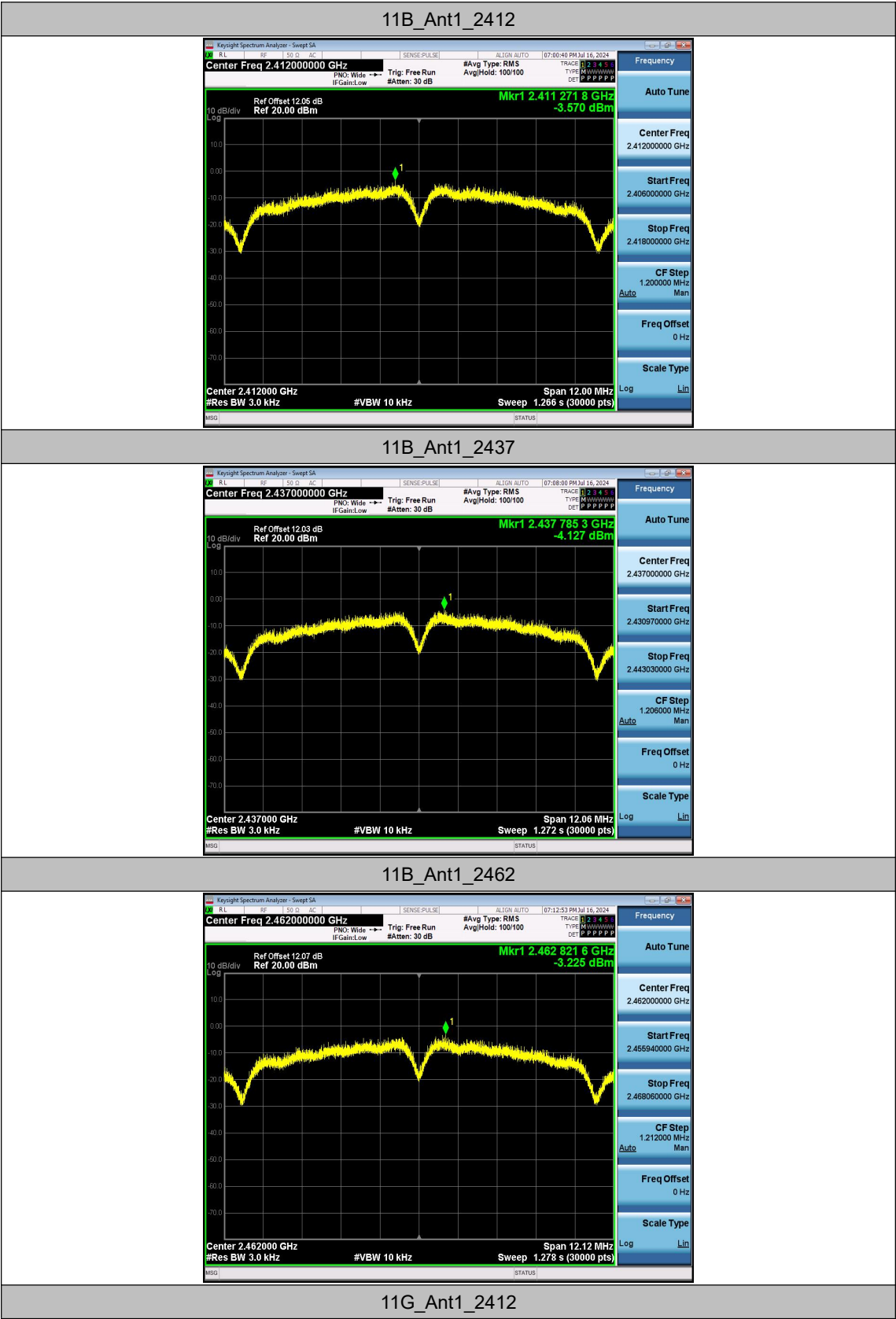
TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.71	≤30.00	PASS
		2437	15.94	≤30.00	PASS
		2462	16.37	≤30.00	PASS
11G	Ant1	2412	14.98	≤30.00	PASS
		2437	15.45	≤30.00	PASS
		2462	16.22	≤30.00	PASS
11N20SISO	Ant1	2412	14.96	≤30.00	PASS
		2437	14.46	≤30.00	PASS
		2462	16.12	≤30.00	PASS
11N40SISO	Ant1	2422	15.34	≤30.00	PASS
		2437	15.57	≤30.00	PASS
		2452	16.01	≤30.00	PASS

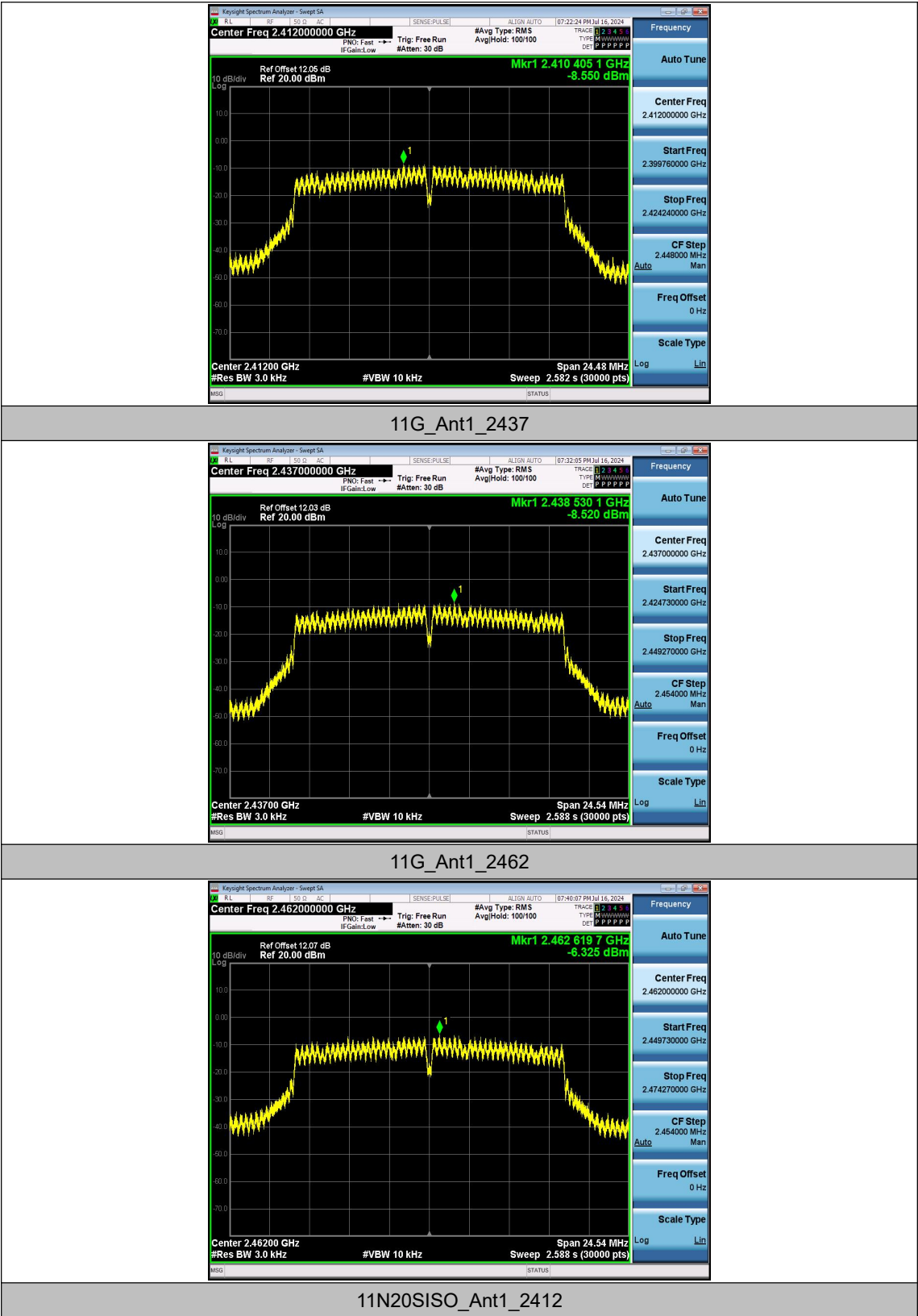
Appendix D: Maximum power spectral density

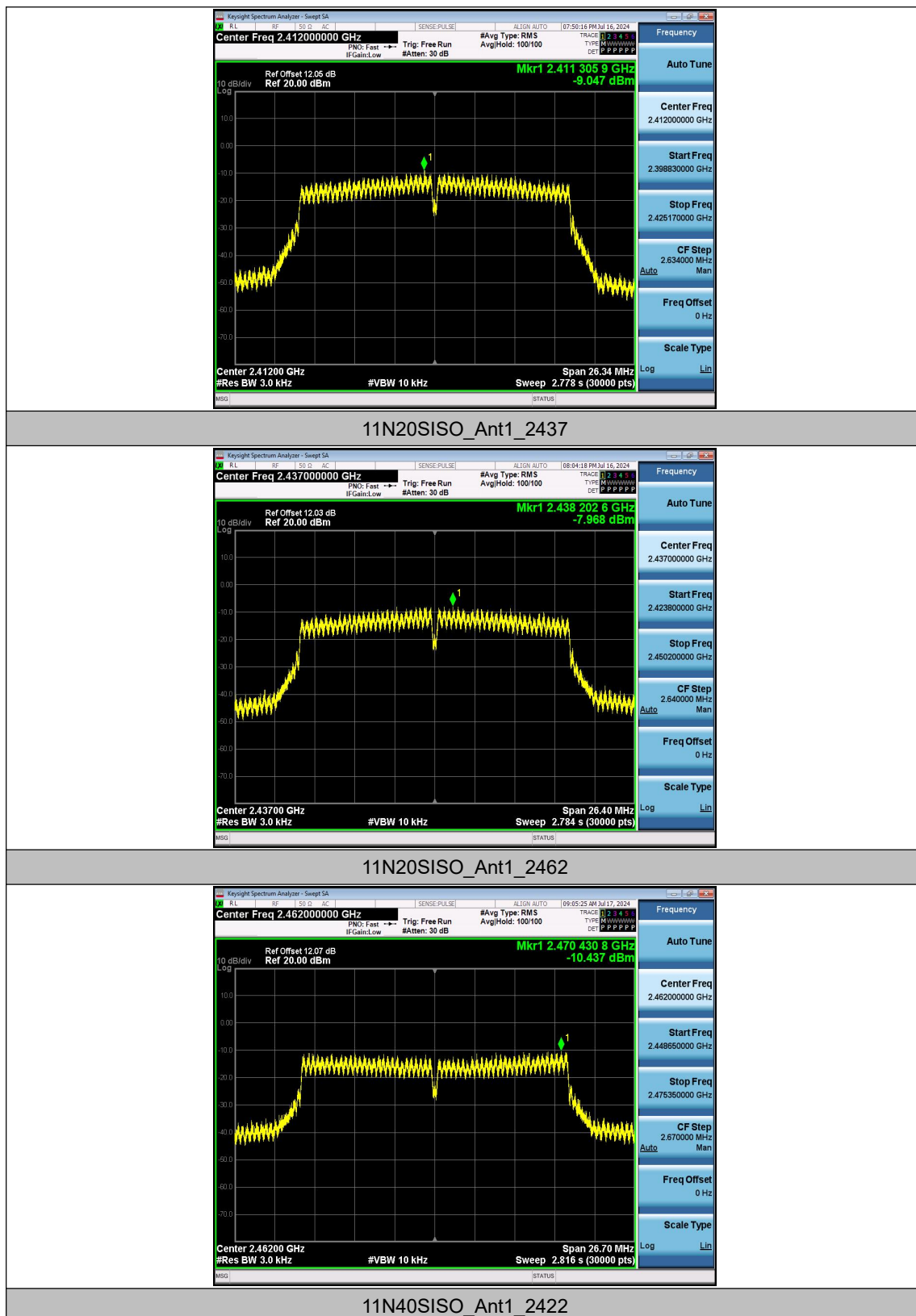
Test Result

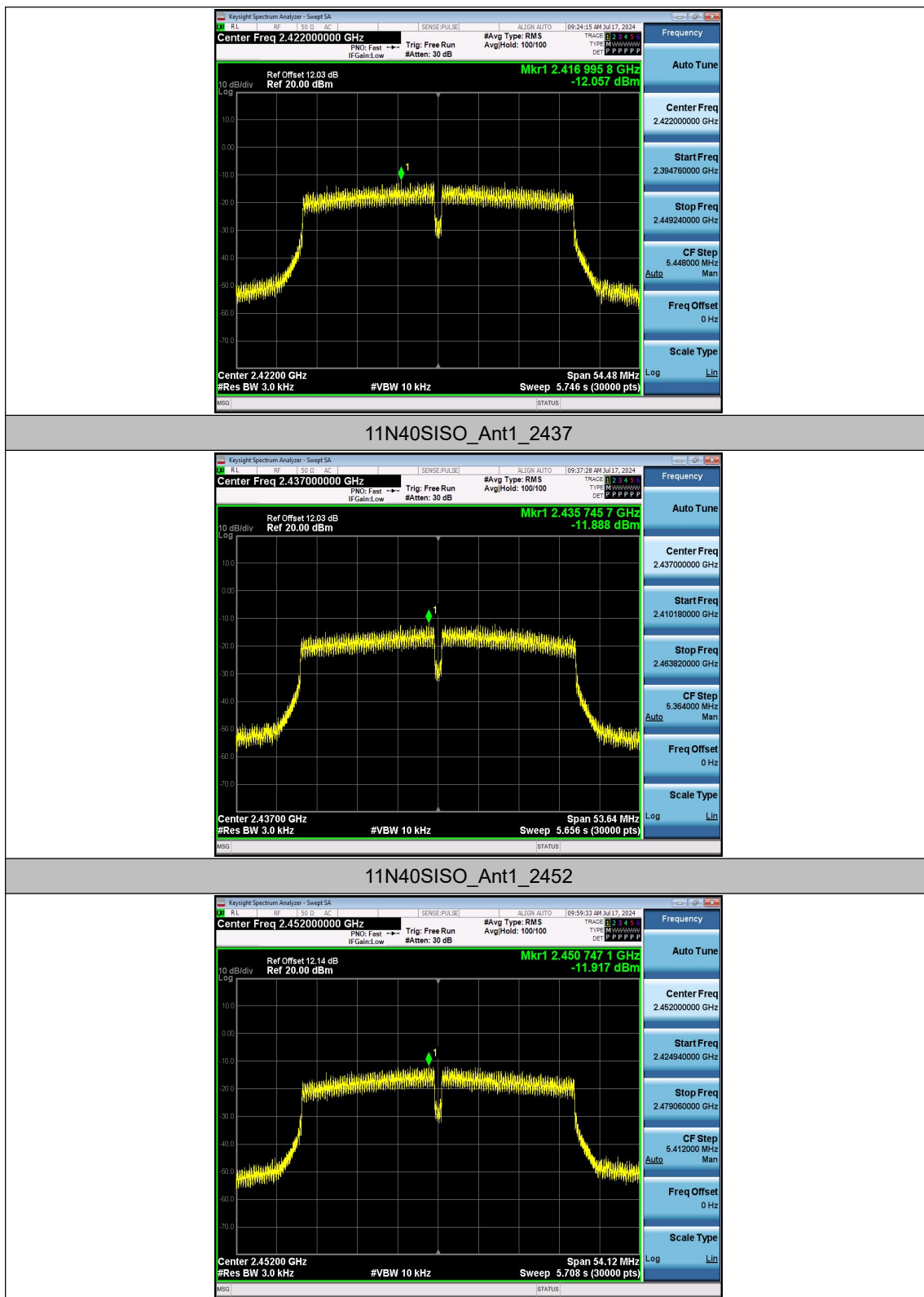
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-3.57	≤8.00	PASS
		2437	-4.13	≤8.00	PASS
		2462	-3.23	≤8.00	PASS
11G	Ant1	2412	-8.55	≤8.00	PASS
		2437	-8.52	≤8.00	PASS
		2462	-6.33	≤8.00	PASS
11N20SISO	Ant1	2412	-9.05	≤8.00	PASS
		2437	-7.97	≤8.00	PASS
		2462	-10.44	≤8.00	PASS
11N40SISO	Ant1	2422	-12.06	≤8.00	PASS
		2437	-11.89	≤8.00	PASS
		2452	-11.92	≤8.00	PASS

Test Graphs









Appendix E: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2411.51	9.22
		2437	2438.01	8.76
		2462	2461.50	9.27
11G	Ant1	2412	2411.36	2.19
		2437	2435.38	2.47
		2462	2463.50	4.60
11N20SISO	Ant1	2412	2411.37	1.58
		2437	2435.76	2.63
		2462	2470.49	0.20
11N40SISO	Ant1	2422	2424.29	-2.27
		2437	2438.50	-1.85
		2452	2450.54	-1.24

Test Graphs

