

Appendix Test Data for WLAN(2.4G) (Conducted Measurement)

Product Name: Projector

Trade Mark: N/A

Test Model: S100

FCC ID: 2BF78-S100

Environmental Conditions

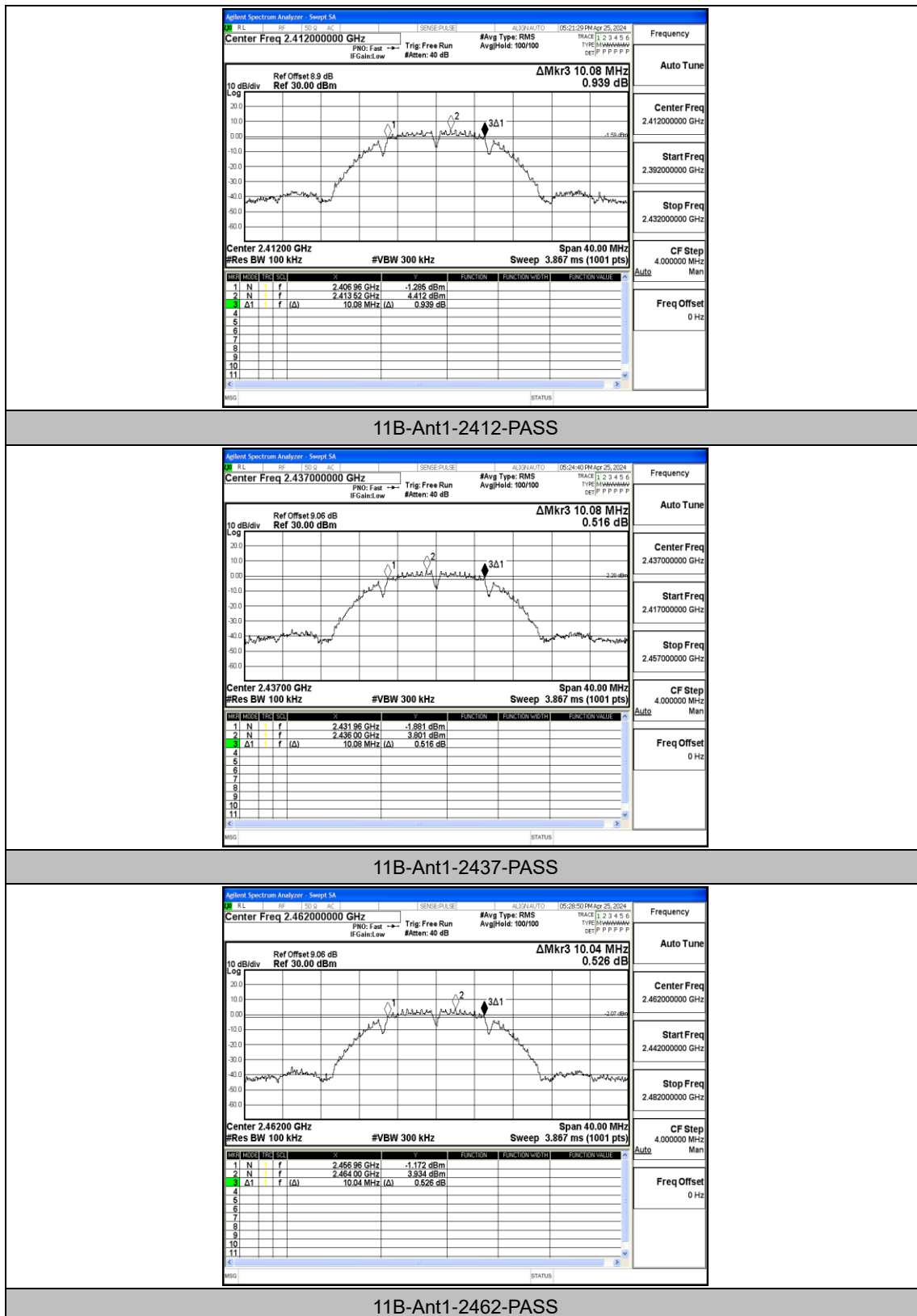
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

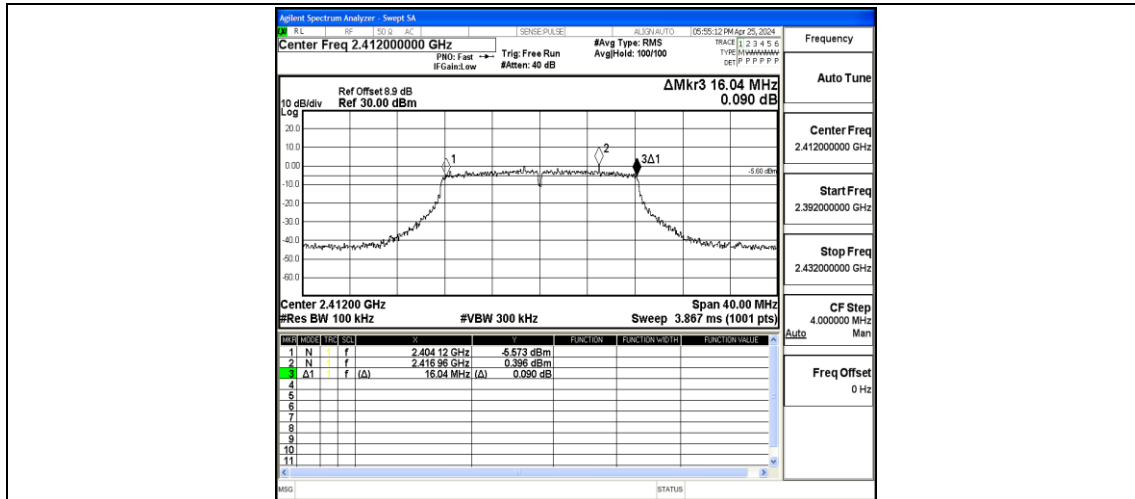
Appendix A: DTS Bandwidth

Test Result

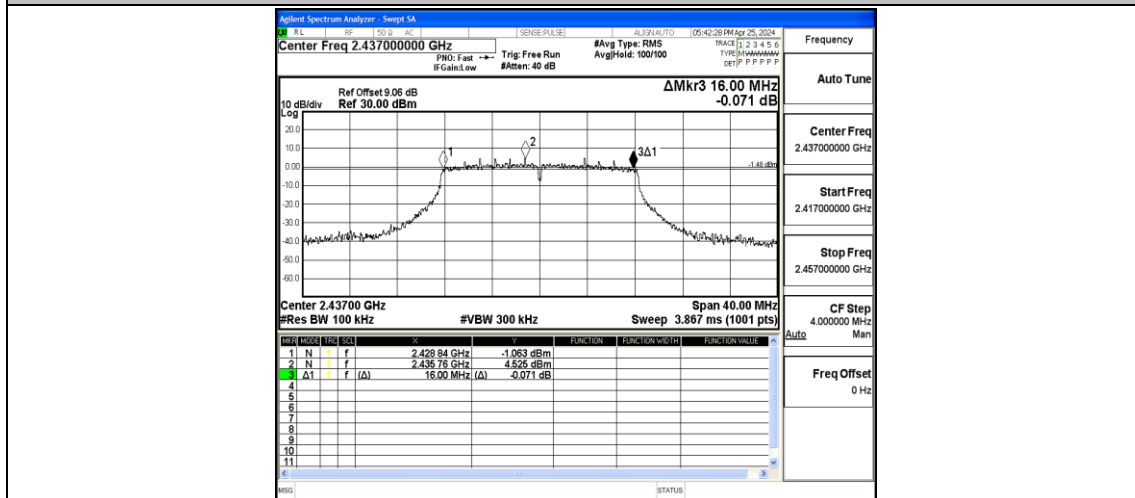
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant1	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant1	2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.040	2404.120	2420.160	0.5	PASS
11G	Ant1	2437	16.000	2428.840	2444.840	0.5	PASS
11G	Ant1	2462	16.240	2453.880	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.040	2403.480	2420.520	0.5	PASS
11N20SISO	Ant1	2437	16.720	2428.640	2445.360	0.5	PASS
11N20SISO	Ant1	2462	16.720	2453.600	2470.320	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
11N40SISO	Ant1	2437	35.200	2419.400	2454.600	0.5	PASS
11N40SISO	Ant1	2452	35.200	2434.400	2469.600	0.5	PASS

Test Graphs

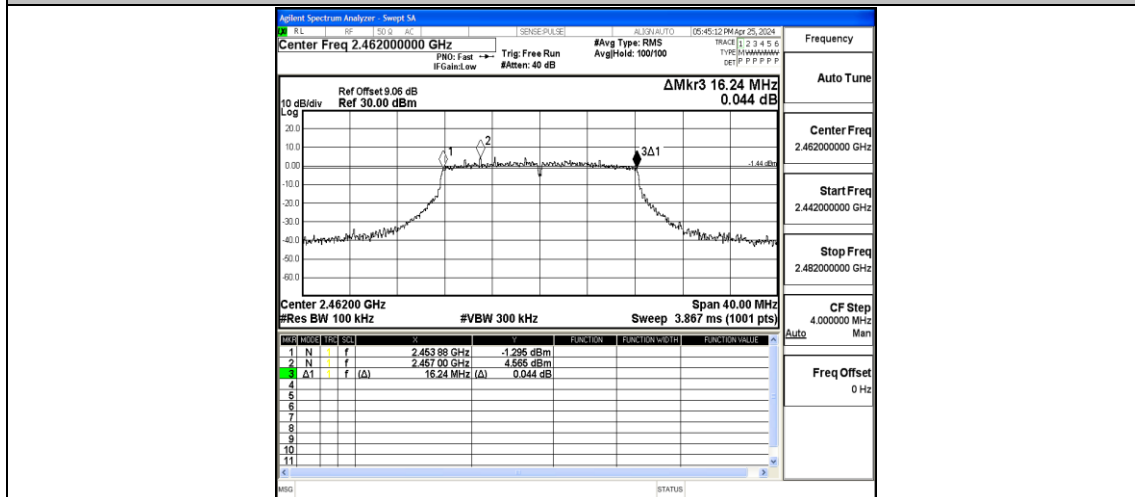




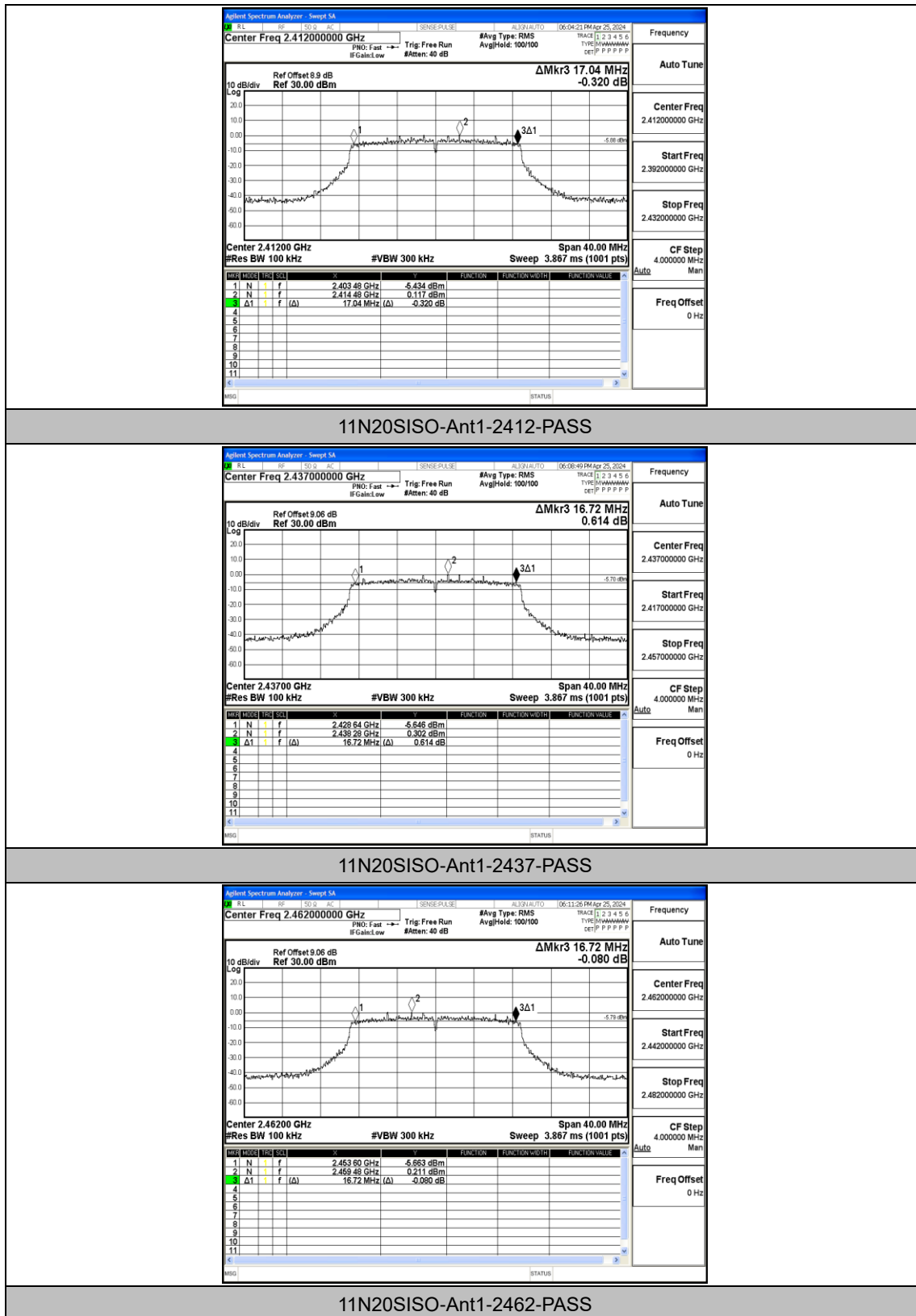
11G-Ant1-2412-PASS

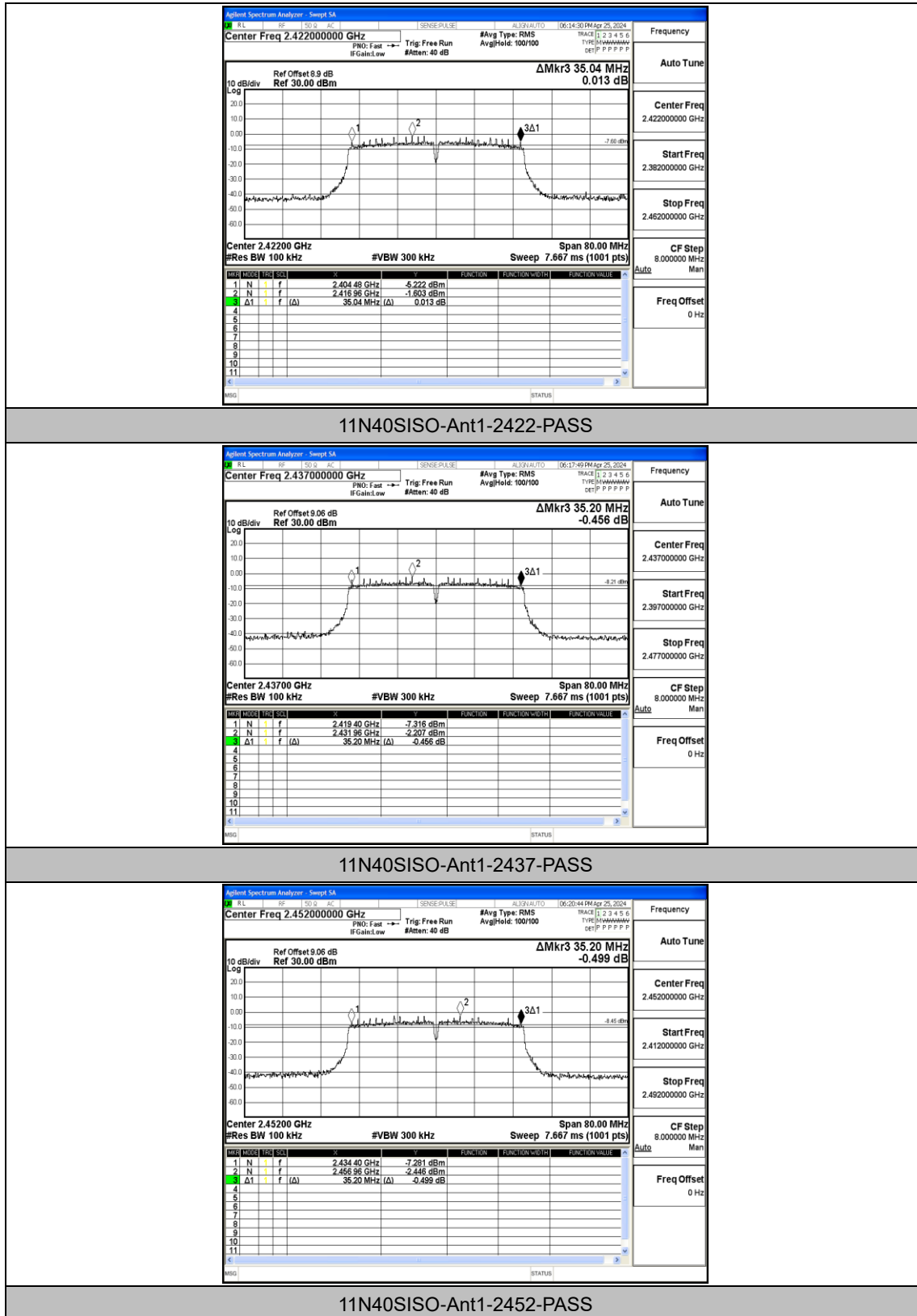


11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



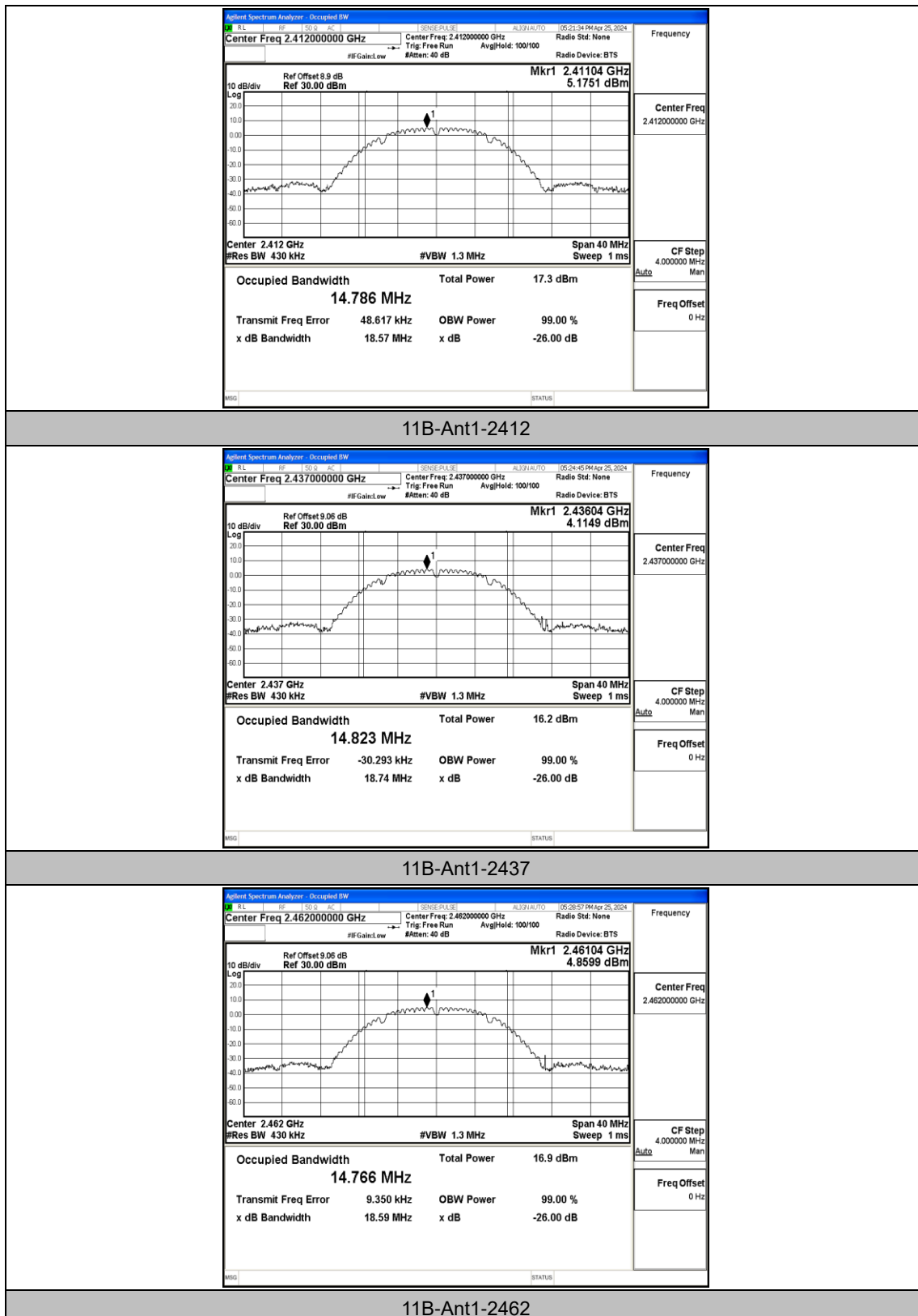


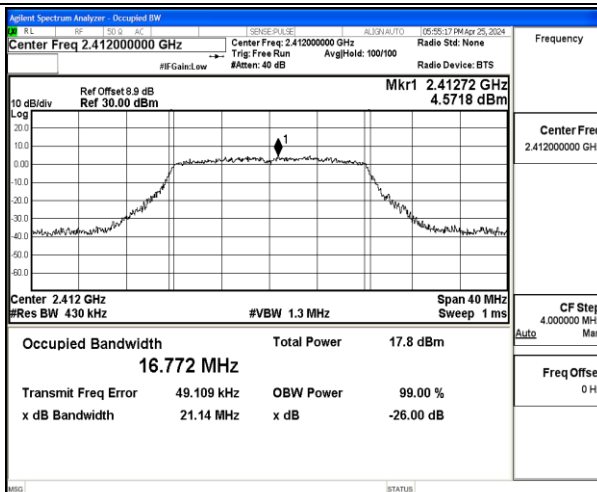
Appendix B: Occupied Channel Bandwidth

Test Result

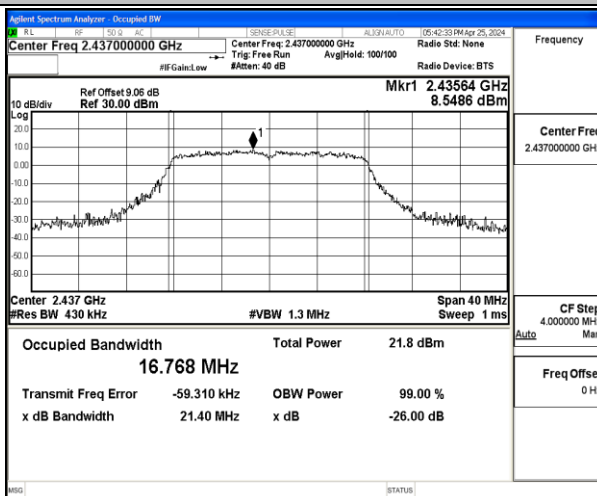
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.786	2404.6556	2419.4416	---	---
11B	Ant1	2437	14.823	2429.5582	2444.3812	---	---
11B	Ant1	2462	14.766	2454.6264	2469.3924	---	---
11G	Ant1	2412	16.772	2403.6631	2420.4351	---	---
11G	Ant1	2437	16.768	2428.5567	2445.3247	---	---
11G	Ant1	2462	16.700	2453.6671	2470.3671	---	---
11N20SISO	Ant1	2412	17.892	2403.1019	2420.9939	---	---
11N20SISO	Ant1	2437	17.920	2428.0260	2445.9460	---	---
11N20SISO	Ant1	2462	17.825	2453.1277	2470.9527	---	---
11N40SISO	Ant1	2422	36.064	2404.0362	2440.1002	---	---
11N40SISO	Ant1	2437	36.370	2418.8334	2455.2034	---	---
11N40SISO	Ant1	2452	36.224	2433.9689	2470.1929	---	---

Test Graphs

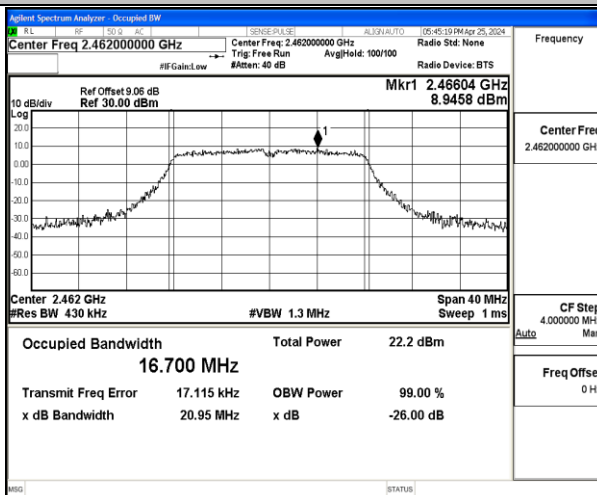




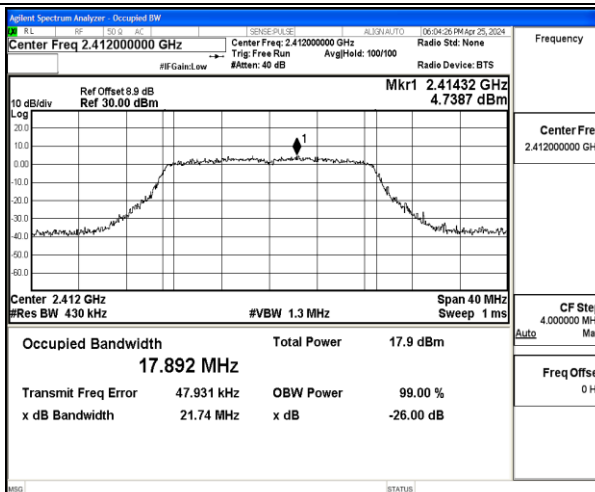
11G-Ant1-2412



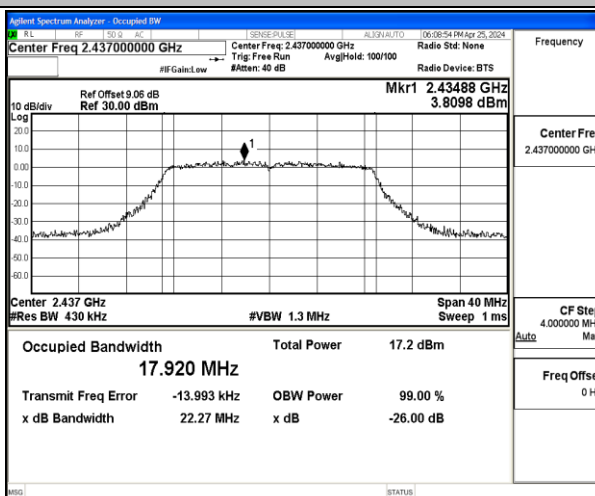
11G-Ant1-2437



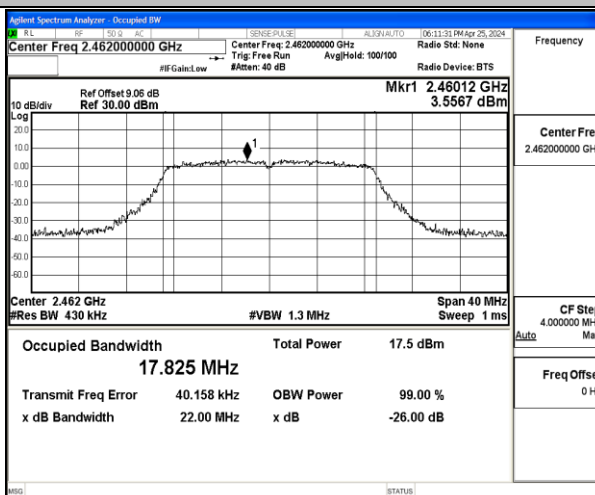
11G-Ant1-2462



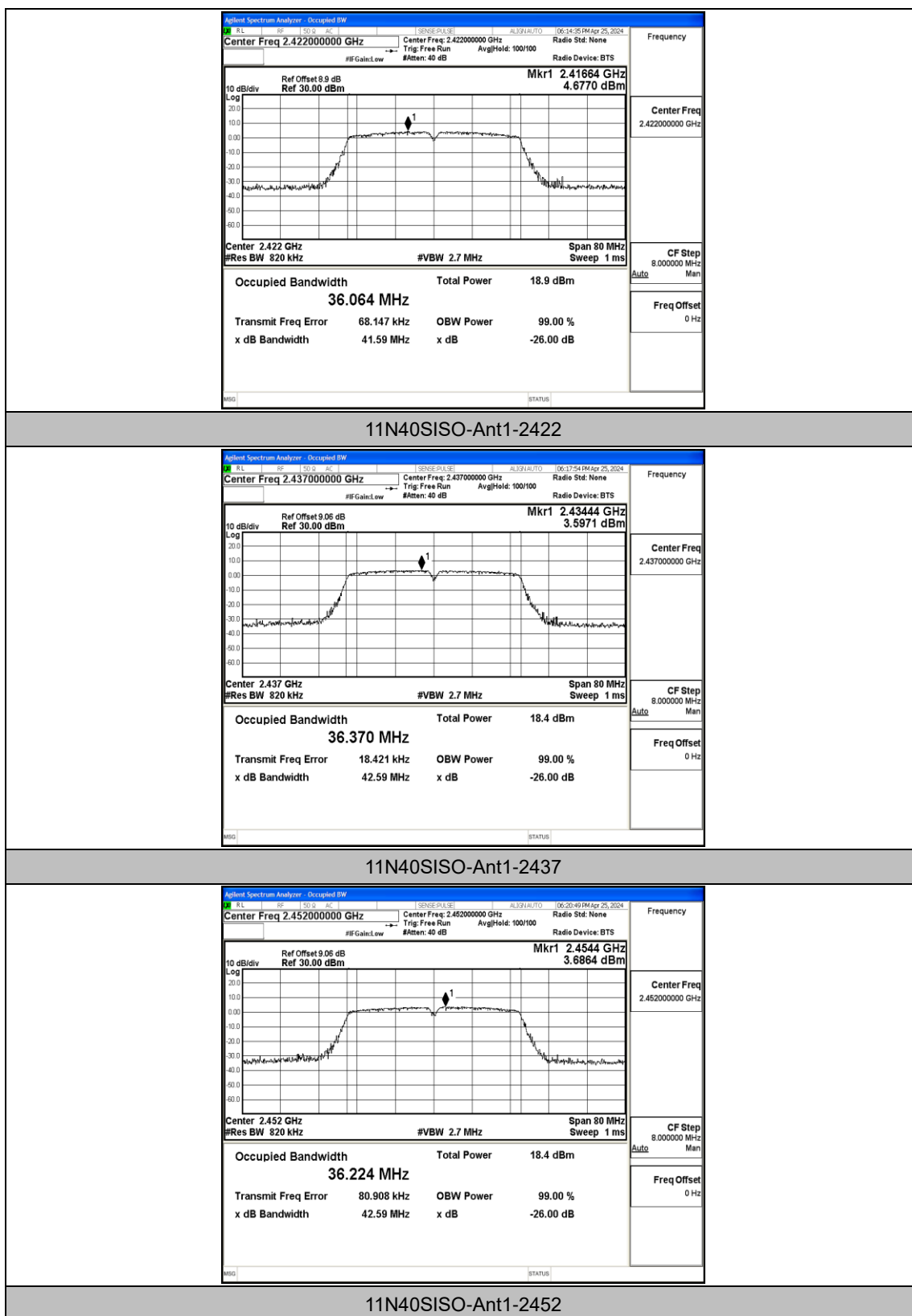
11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462



Appendix C: Maximum Average conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	14.19	≤30.00	PASS
11B	Ant1	2437	13.06	≤30.00	PASS
11B	Ant1	2462	13.78	≤30.00	PASS
11G	Ant1	2412	11.62	≤30.00	PASS
11G	Ant1	2437	15.57	≤30.00	PASS
11G	Ant1	2462	15.61	≤30.00	PASS
11N20SISO	Ant1	2412	11.76	≤30.00	PASS
11N20SISO	Ant1	2437	11.27	≤30.00	PASS
11N20SISO	Ant1	2462	11.48	≤30.00	PASS
11N40SISO	Ant1	2422	12.25	≤30.00	PASS
11N40SISO	Ant1	2437	11.69	≤30.00	PASS
11N40SISO	Ant1	2452	11.63	≤30.00	PASS

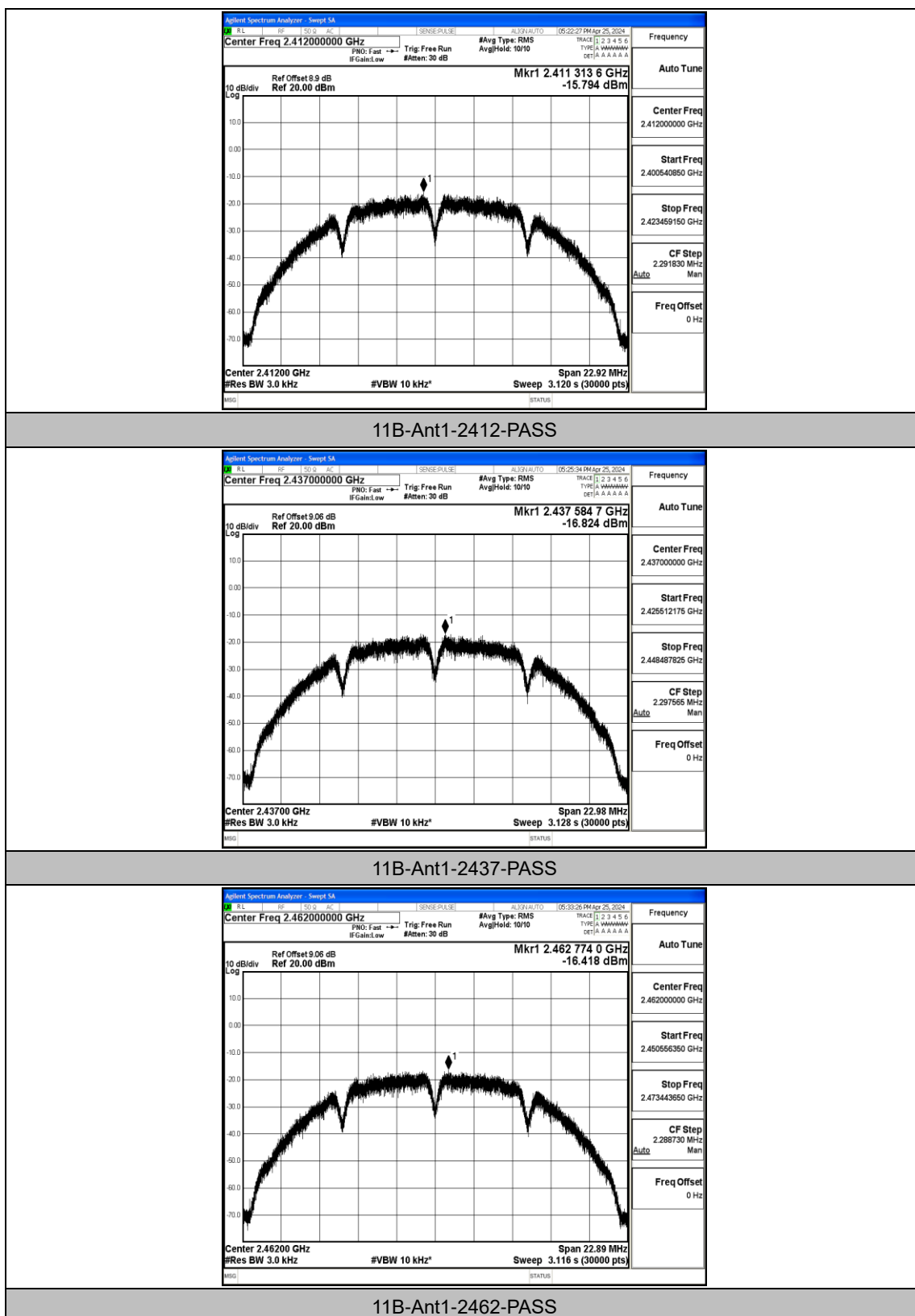
Note: The Duty Cycle Factor is compensated in the result.

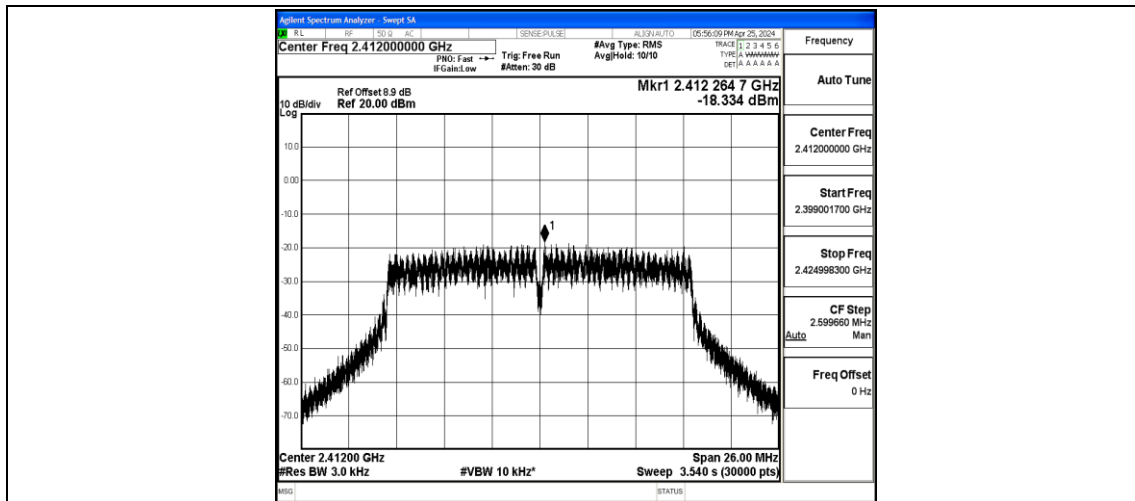
Appendix D: Maximum Average power spectral density

Test Result

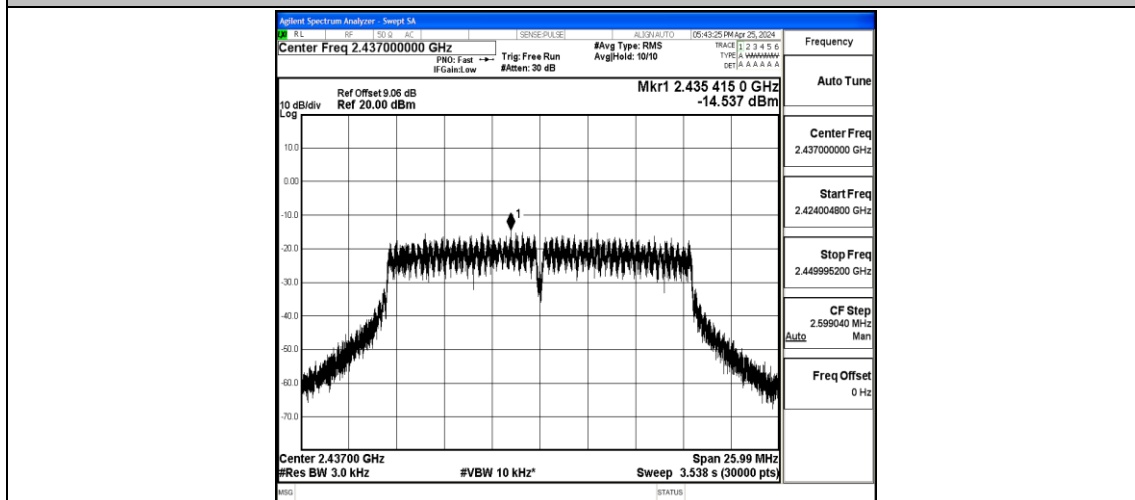
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.79	≤8.00	PASS
11B	Ant1	2437	-16.82	≤8.00	PASS
11B	Ant1	2462	-16.42	≤8.00	PASS
11G	Ant1	2412	-18.33	≤8.00	PASS
11G	Ant1	2437	-14.54	≤8.00	PASS
11G	Ant1	2462	-13.92	≤8.00	PASS
11N20SISO	Ant1	2412	-17.44	≤8.00	PASS
11N20SISO	Ant1	2437	-18.27	≤8.00	PASS
11N20SISO	Ant1	2462	-16.12	≤8.00	PASS
11N40SISO	Ant1	2422	-19.70	≤8.00	PASS
11N40SISO	Ant1	2437	-21.16	≤8.00	PASS
11N40SISO	Ant1	2452	-20.62	≤8.00	PASS

Test Graphs

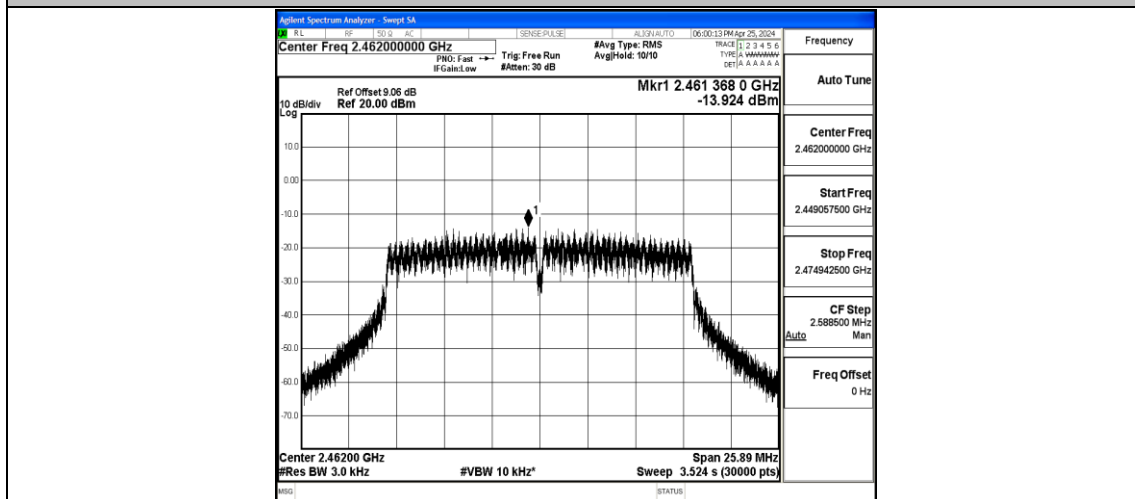




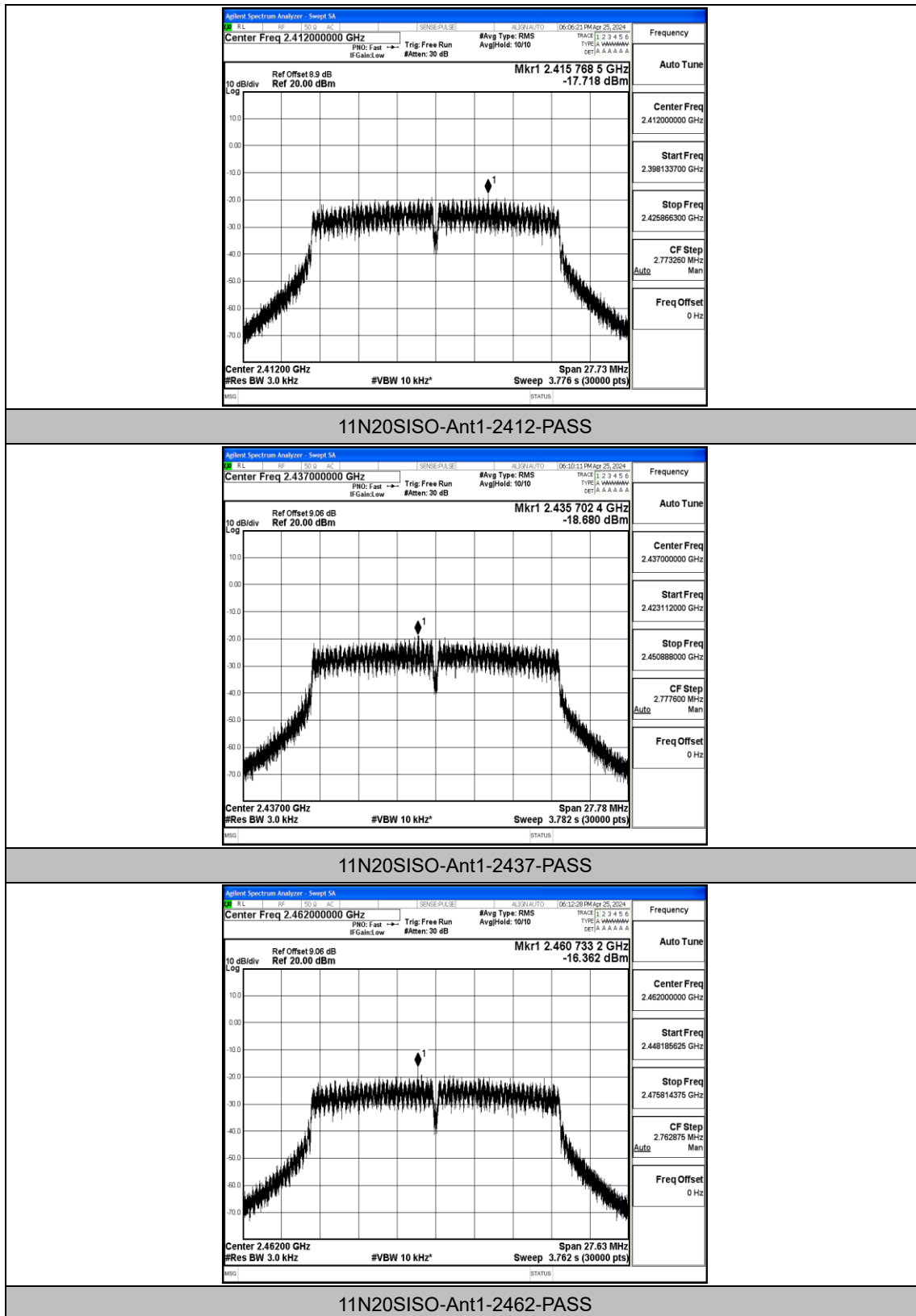
11G-Ant1-2412-PASS

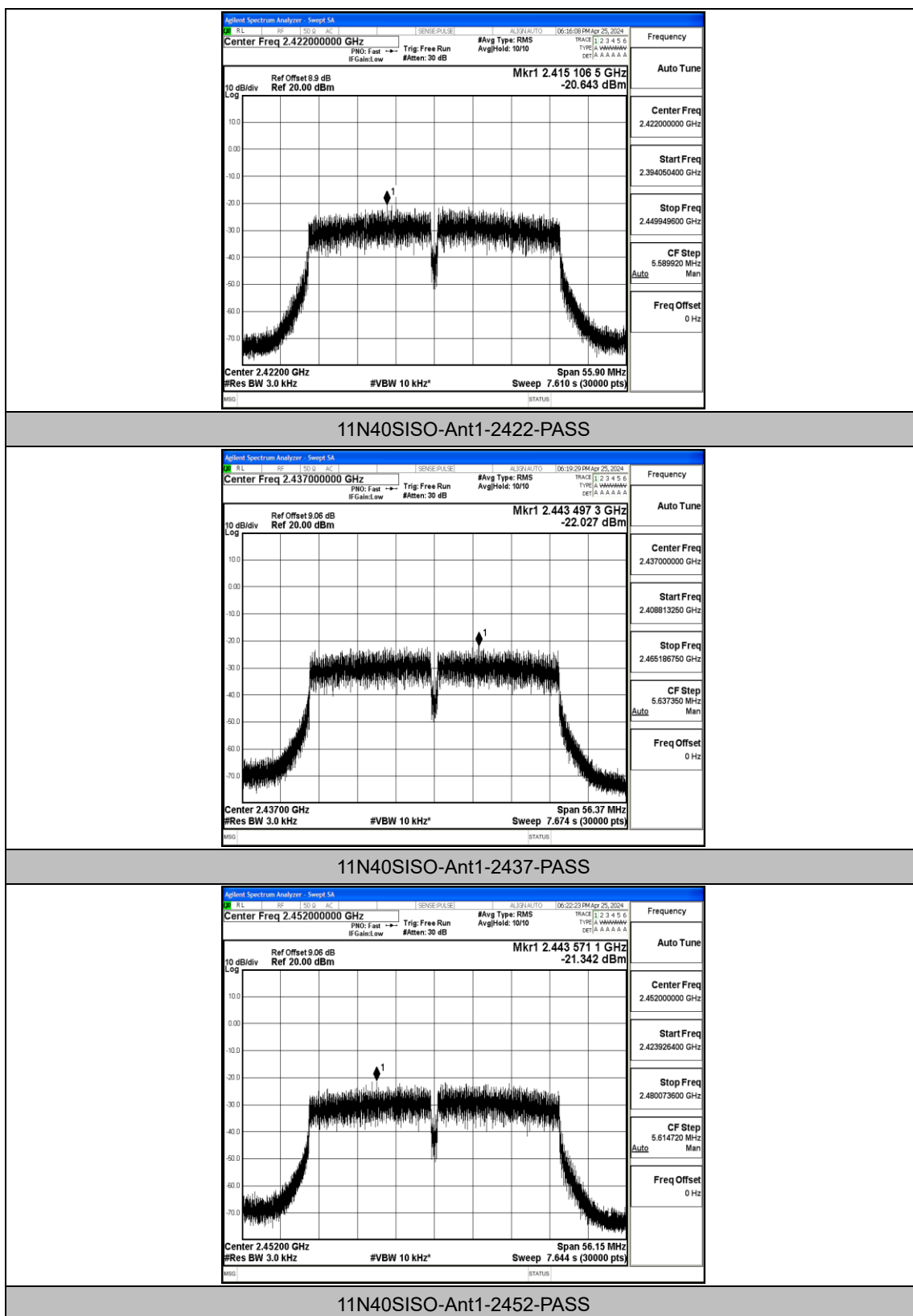


11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



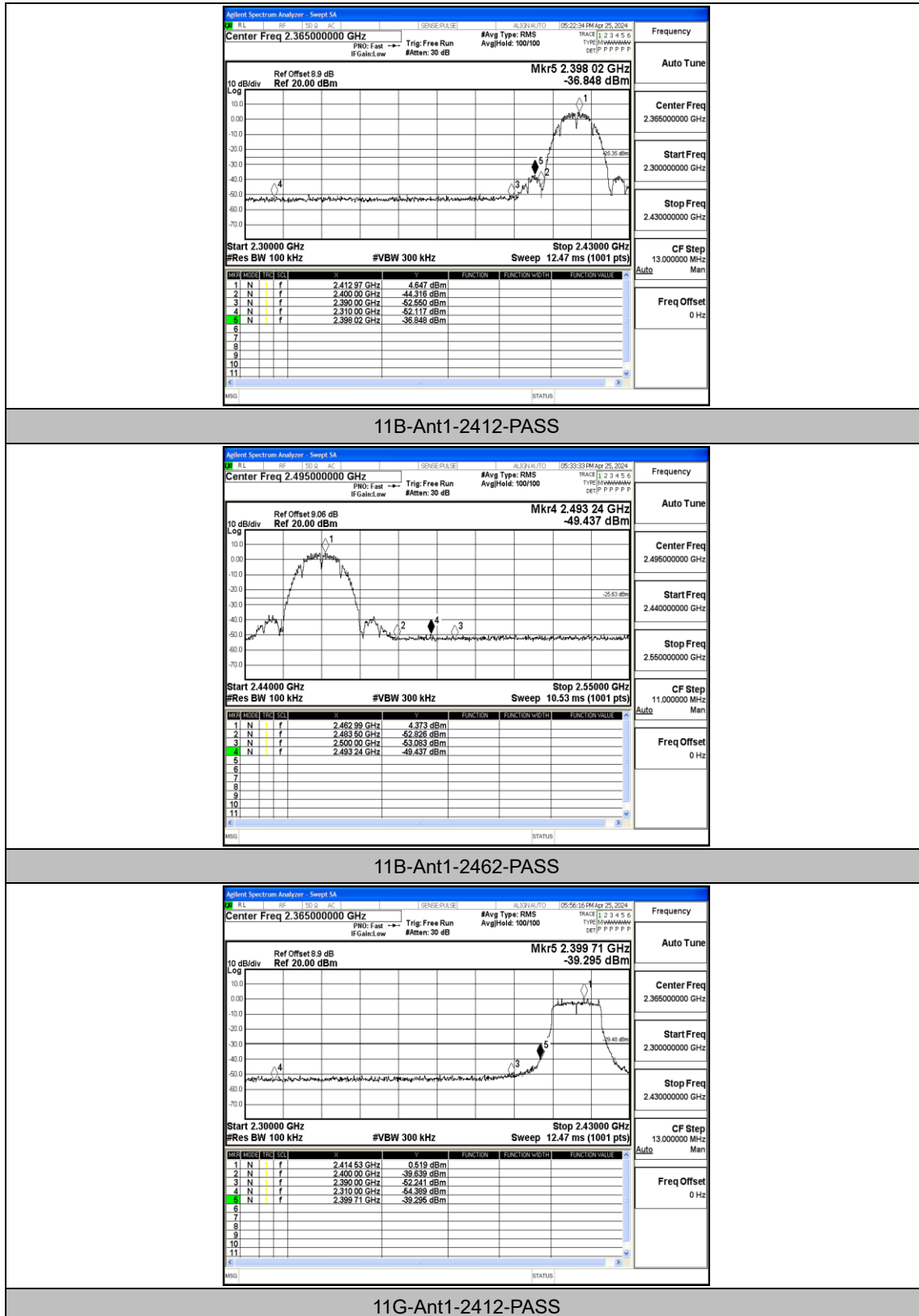


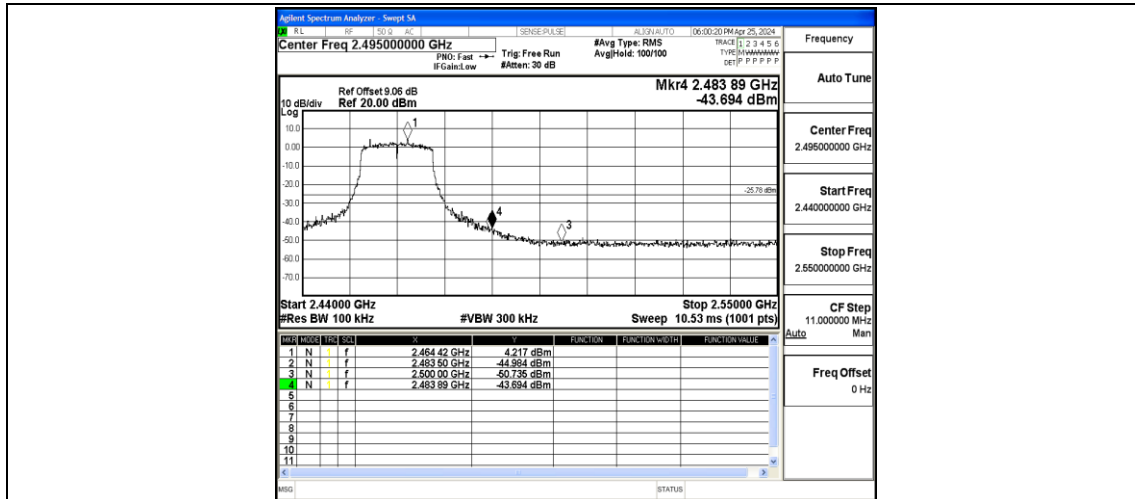
Appendix E: Band edge measurements

Test Result

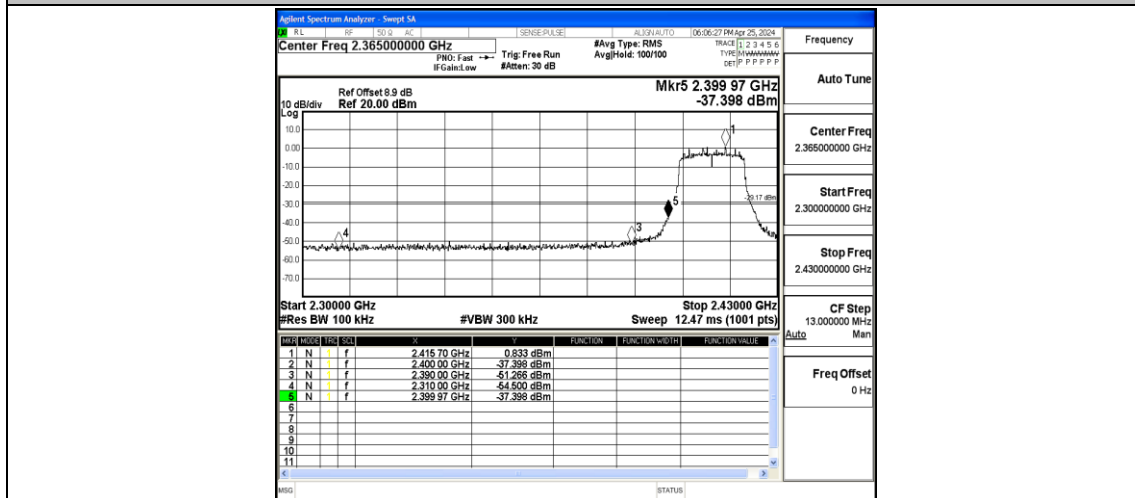
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.65	-36.85	≤-25.35	PASS
11B	Ant1	High	2462	4.37	-49.44	≤-25.63	PASS
11G	Ant1	Low	2412	0.52	-39.3	≤-29.48	PASS
11G	Ant1	High	2462	4.22	-43.69	≤-25.78	PASS
11N20SISO	Ant1	Low	2412	0.83	-37.4	≤-29.17	PASS
11N20SISO	Ant1	High	2462	0.44	-49.02	≤-29.56	PASS
11N40SISO	Ant1	Low	2422	-1.49	-41.51	≤-31.49	PASS
11N40SISO	Ant1	High	2452	-2.32	-48.72	≤-32.32	PASS

Test Graphs

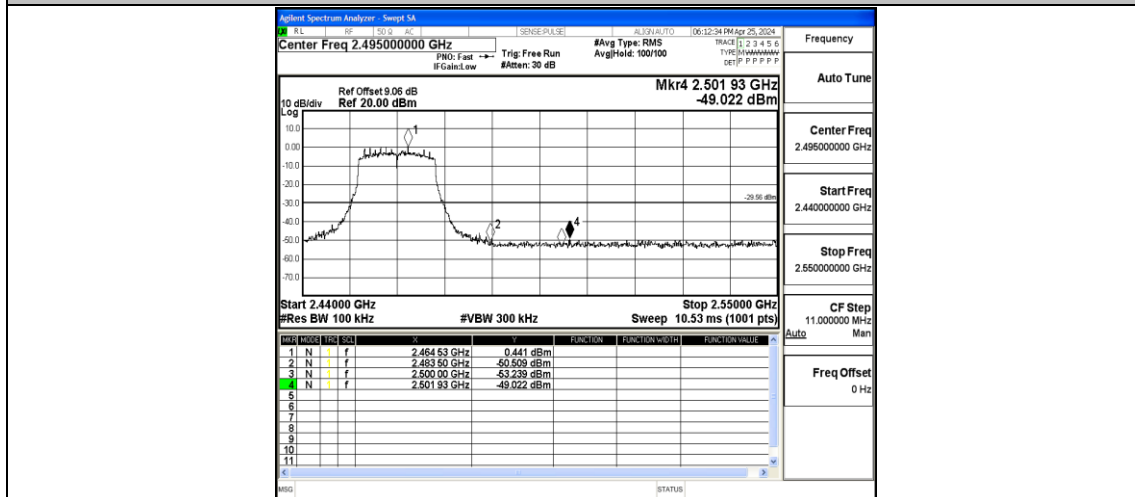




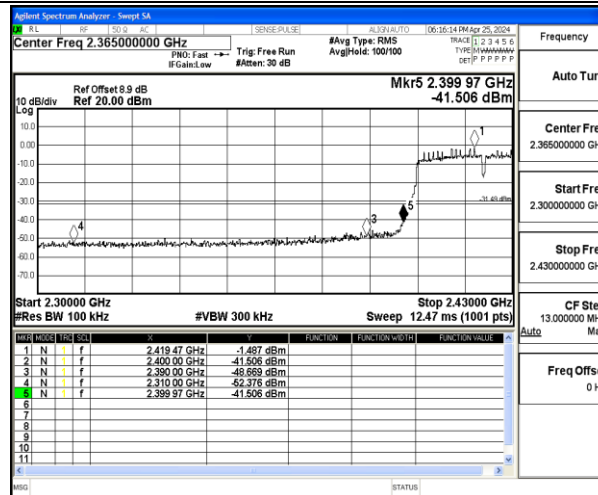
11G-Ant1-2462-PASS



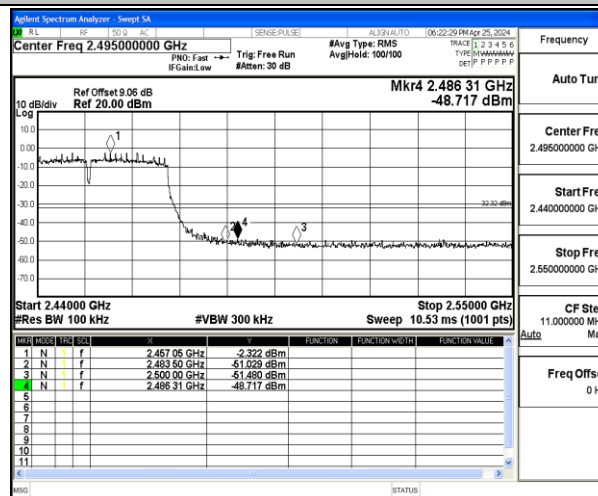
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



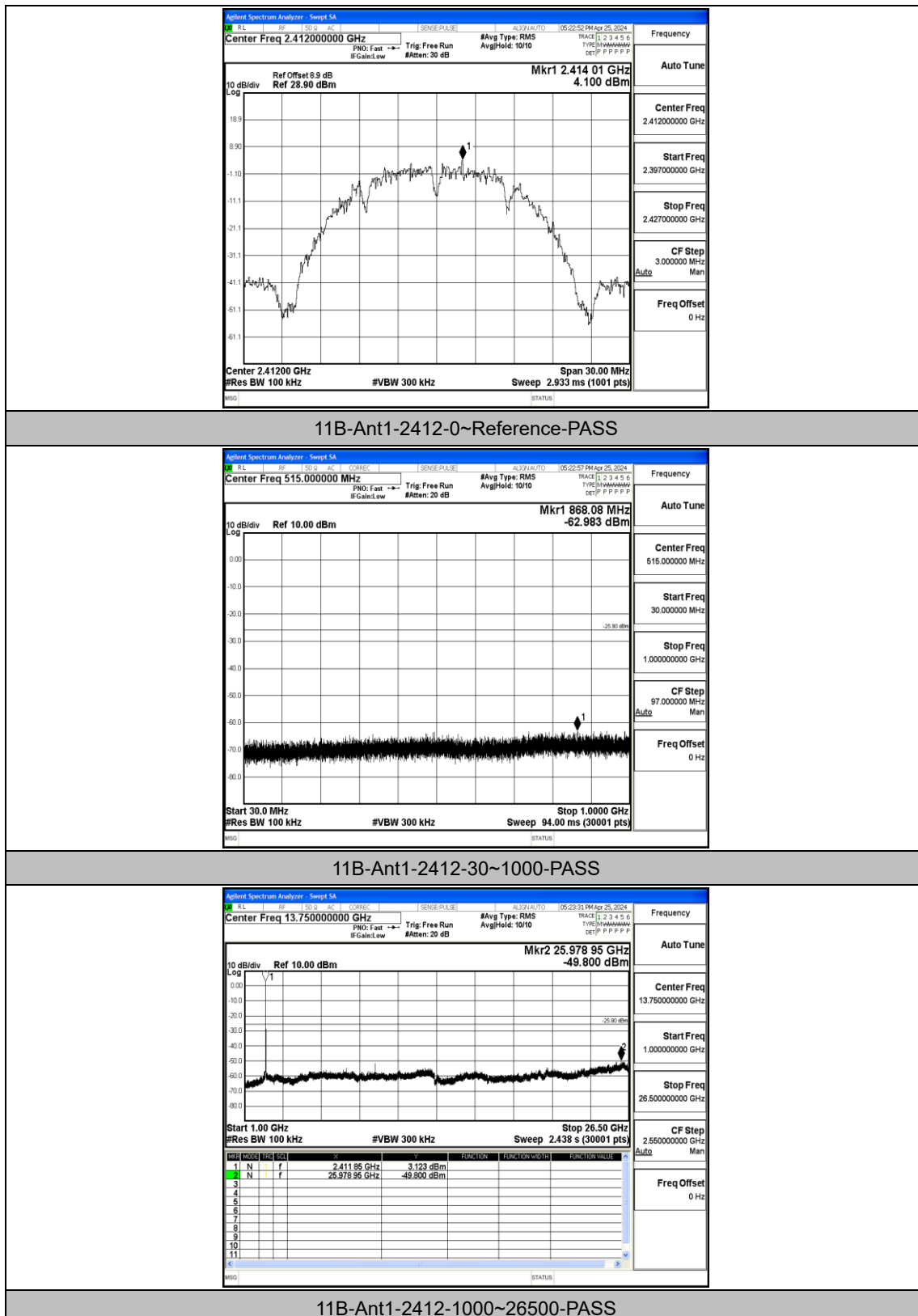
11N40SISO-Ant1-2452-PASS

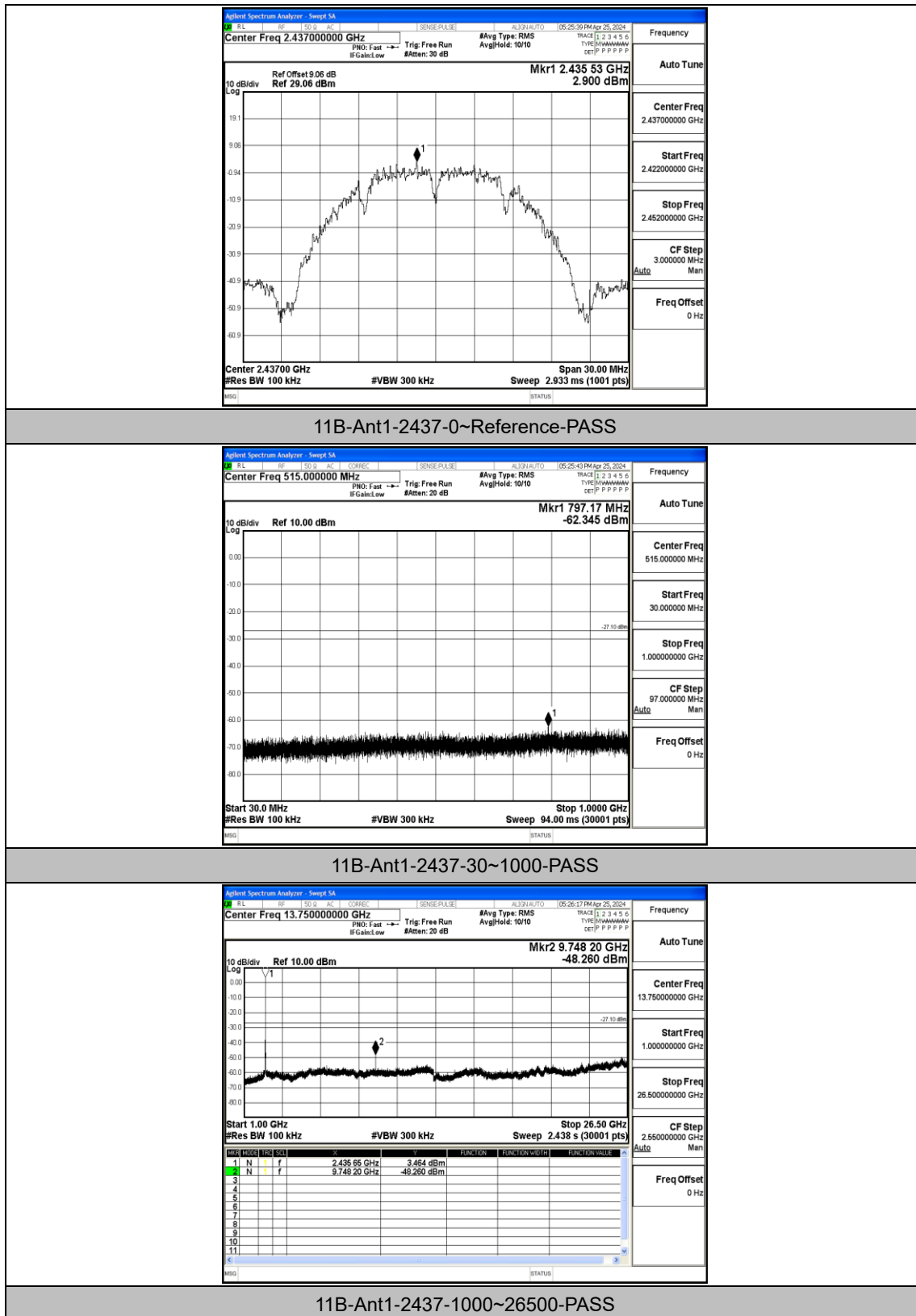
Appendix F: Conducted Spurious Emission

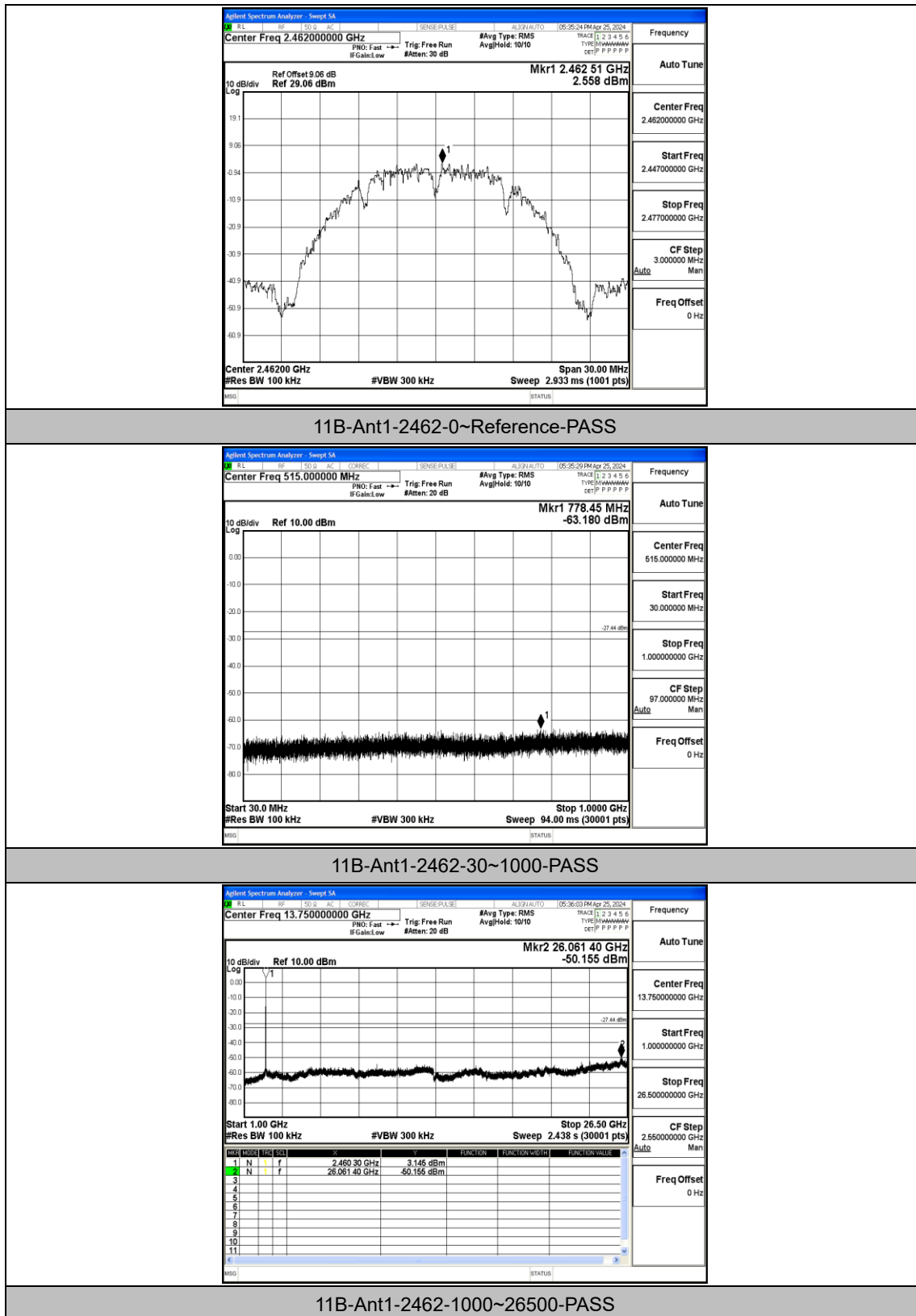
Test Result

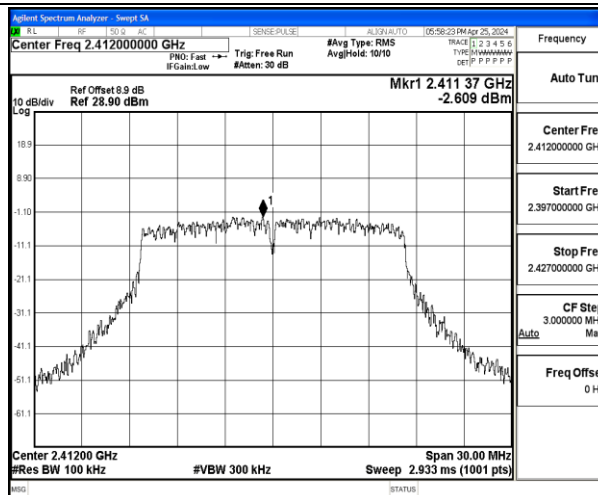
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	4.10	4.10	---	PASS
11B	Ant1	2412	30~1000	4.10	-62.98	≤-25.9	PASS
11B	Ant1	2412	1000~26500	4.10	-49.8	≤-25.9	PASS
11B	Ant1	2437	0~Reference	2.90	2.90	---	PASS
11B	Ant1	2437	30~1000	2.90	-62.35	≤-27.1	PASS
11B	Ant1	2437	1000~26500	2.90	-48.26	≤-27.1	PASS
11B	Ant1	2462	0~Reference	2.56	2.56	---	PASS
11B	Ant1	2462	30~1000	2.56	-63.18	≤-27.44	PASS
11B	Ant1	2462	1000~26500	2.56	-50.16	≤-27.44	PASS
11G	Ant1	2412	0~Reference	-2.61	-2.61	---	PASS
11G	Ant1	2412	30~1000	-2.61	-62.46	≤-32.61	PASS
11G	Ant1	2412	1000~26500	-2.61	-49.36	≤-32.61	PASS
11G	Ant1	2437	0~Reference	3.45	3.45	---	PASS
11G	Ant1	2437	30~1000	3.45	-62.71	≤-26.55	PASS
11G	Ant1	2437	1000~26500	3.45	-49.95	≤-26.55	PASS
11G	Ant1	2462	0~Reference	5.30	5.30	---	PASS
11G	Ant1	2462	30~1000	5.30	-62.66	≤-24.7	PASS
11G	Ant1	2462	1000~26500	5.30	-50.77	≤-24.7	PASS
11N20SISO	Ant1	2412	0~Reference	-0.59	-0.59	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.59	-62.54	≤-30.59	PASS
11N20SISO	Ant1	2412	1000~26500	-0.59	-50.65	≤-30.59	PASS
11N20SISO	Ant1	2437	0~Reference	-2.71	-2.71	---	PASS
11N20SISO	Ant1	2437	30~1000	-2.71	-62.3	≤-32.71	PASS
11N20SISO	Ant1	2437	1000~26500	-2.71	-50.43	≤-32.71	PASS
11N20SISO	Ant1	2462	0~Reference	-2.78	-2.78	---	PASS
11N20SISO	Ant1	2462	30~1000	-2.78	-62.82	≤-32.78	PASS
11N20SISO	Ant1	2462	1000~26500	-2.78	-48.11	≤-32.78	PASS
11N40SISO	Ant1	2422	0~Reference	-1.58	-1.58	---	PASS
11N40SISO	Ant1	2422	30~1000	-1.58	-61.82	≤-31.58	PASS
11N40SISO	Ant1	2422	1000~26500	-1.58	-50.33	≤-31.58	PASS
11N40SISO	Ant1	2437	0~Reference	-5.98	-5.98	---	PASS
11N40SISO	Ant1	2437	30~1000	-5.98	-62.99	≤-35.98	PASS
11N40SISO	Ant1	2437	1000~26500	-5.98	-50.55	≤-35.98	PASS
11N40SISO	Ant1	2452	0~Reference	-2.32	-2.32	---	PASS
11N40SISO	Ant1	2452	30~1000	-2.32	-62.73	≤-32.32	PASS
11N40SISO	Ant1	2452	1000~26500	-2.32	-50.8	≤-32.32	PASS

Test Graphs

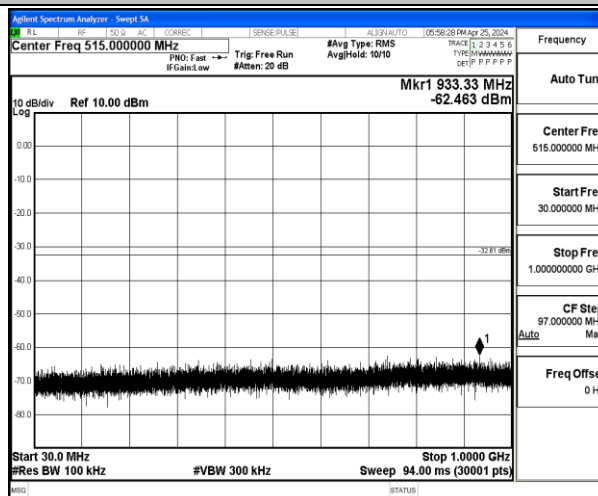




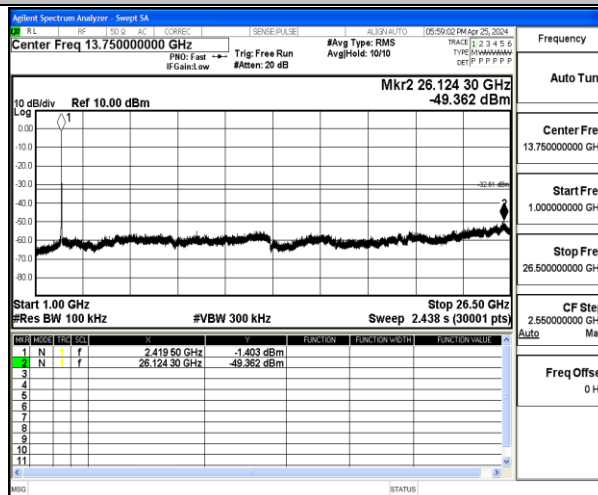




11G-Ant1-2412-0~Reference-PASS



11G-Ant1-2412-30~1000-PASS



11G-Ant1-2412-1000~26500-PASS