

Appendix Test Data for WLAN(2. 4G) (Conducted Measurement)

Product Name: Label Printer

Trade Mark: MakeID

Test Model: D50

FCC ID: 2BLKN-D50

Environmental Conditions

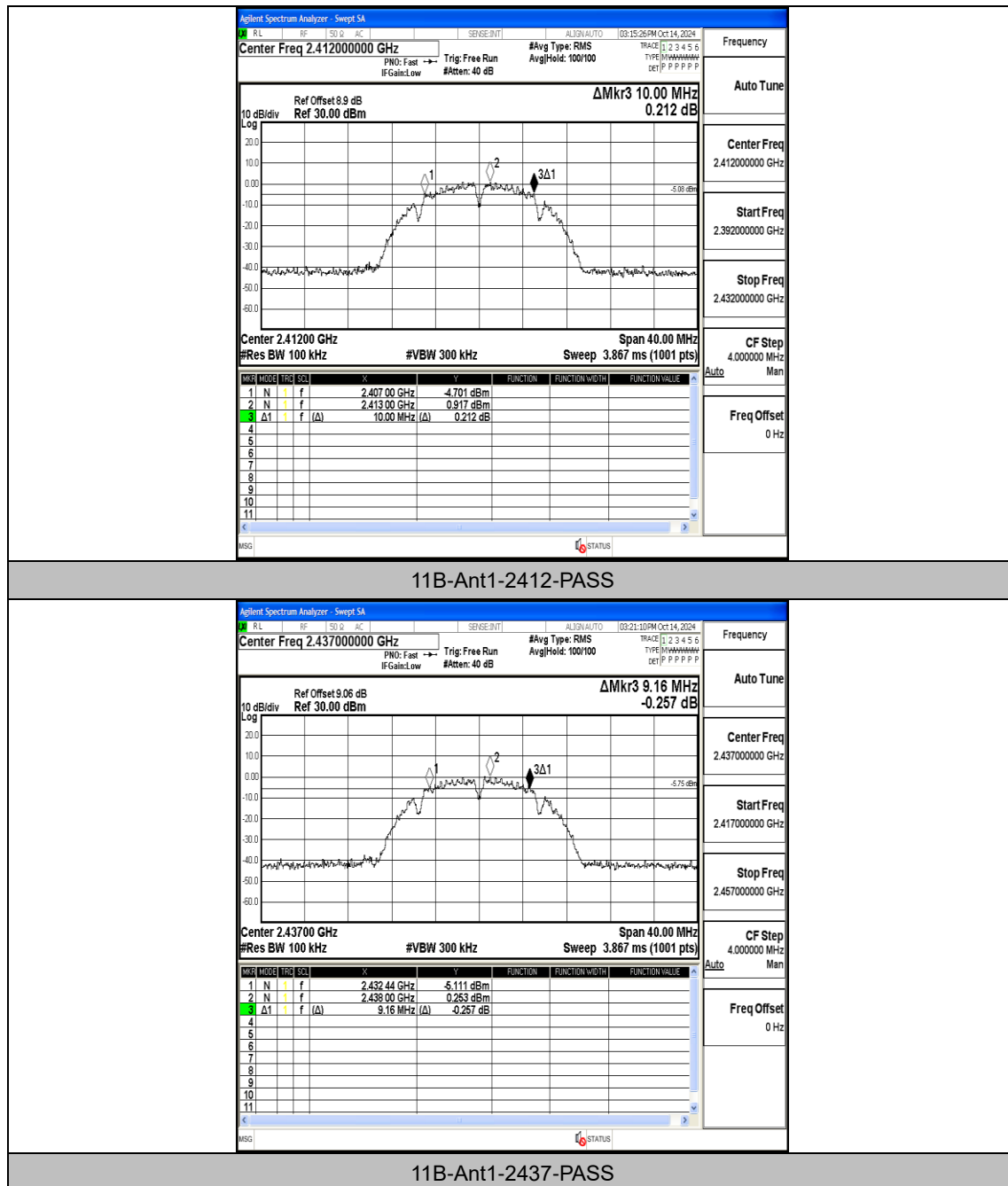
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

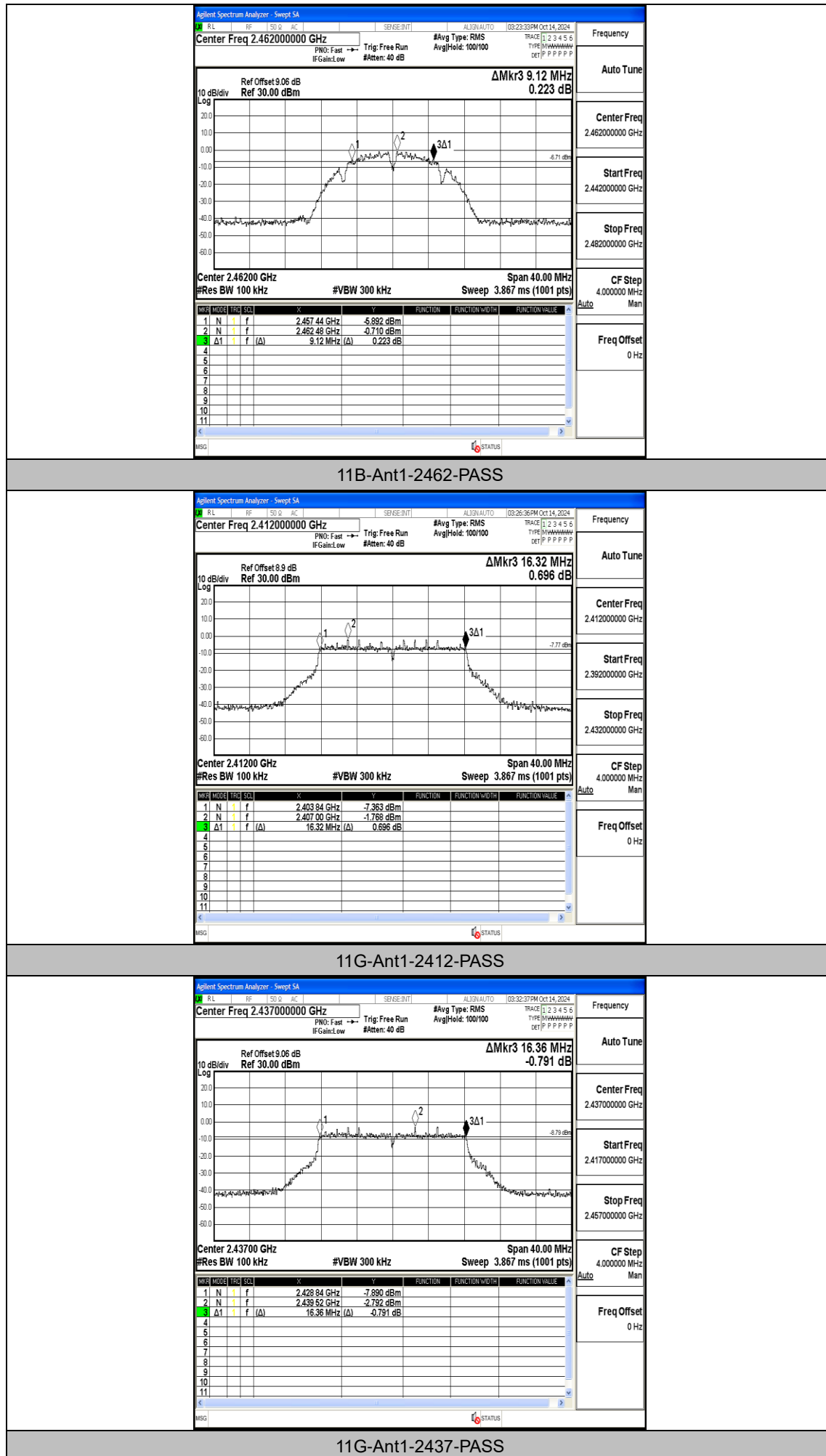
Appendix A: DTS Bandwidth

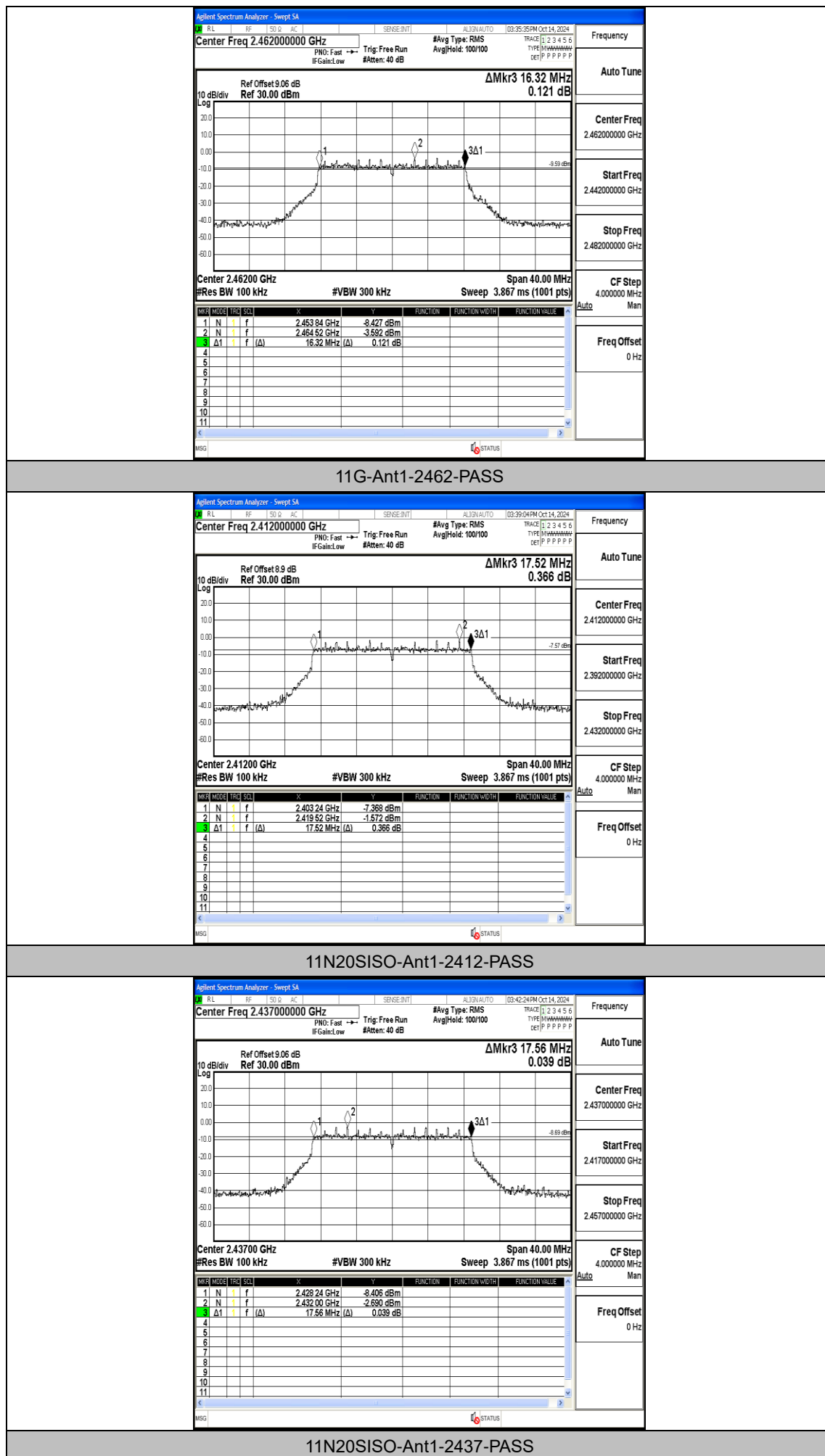
Test Result

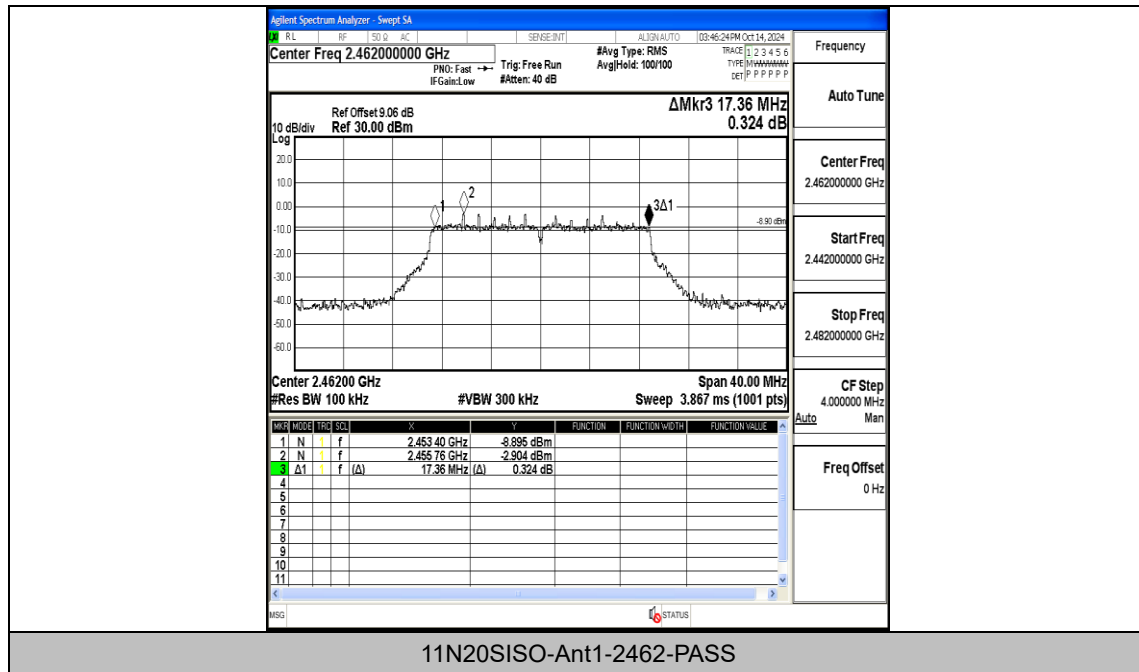
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	10.000	2407.000	2417.000	0.5	PASS
11B	Ant1	2437	9.160	2432.440	2441.600	0.5	PASS
11B	Ant1	2462	9.120	2457.440	2466.560	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
11G	Ant1	2437	16.360	2428.840	2445.200	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.240	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.560	2428.240	2445.800	0.5	PASS
11N20SISO	Ant1	2462	17.360	2453.400	2470.760	0.5	PASS

Test Graphs







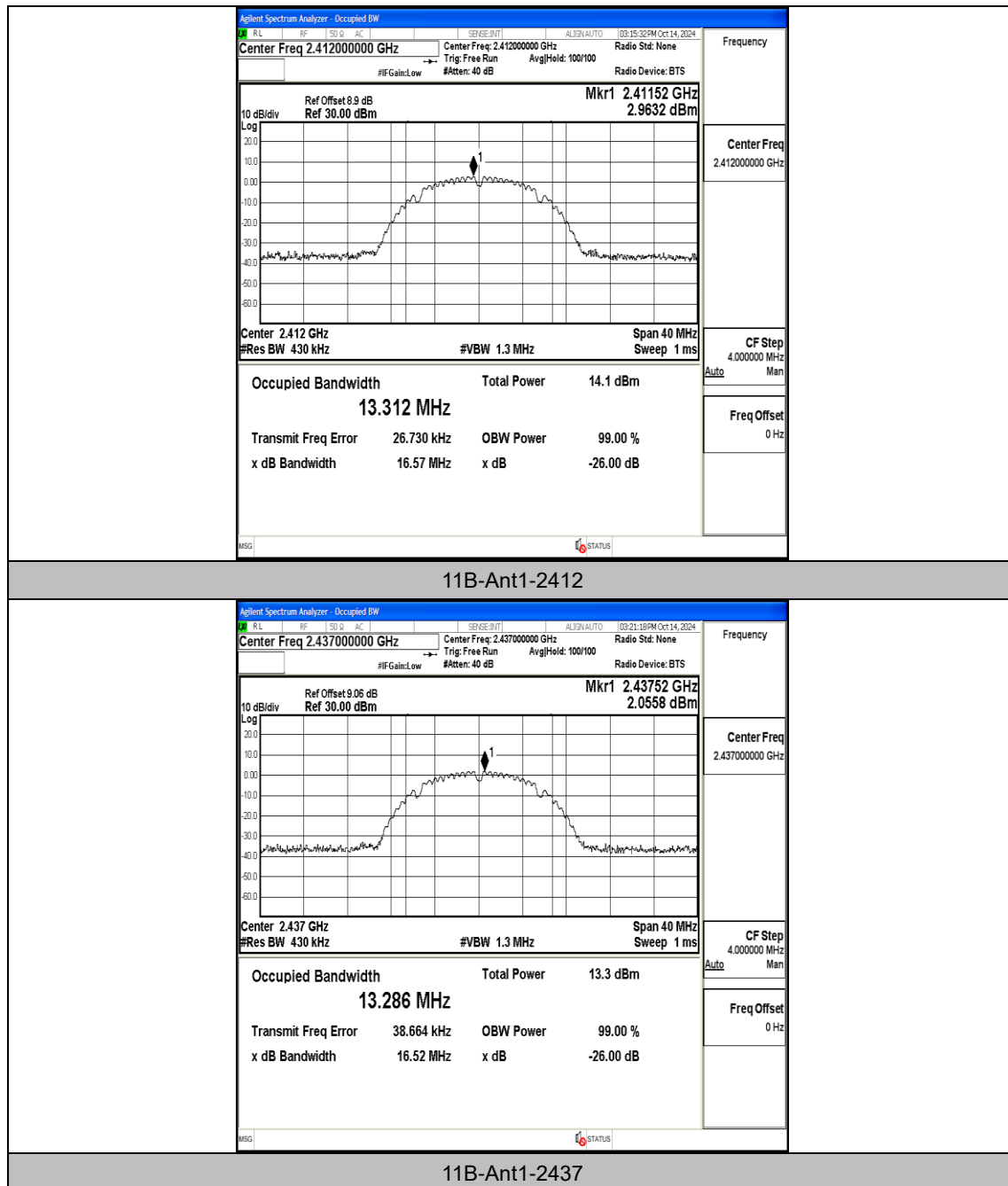


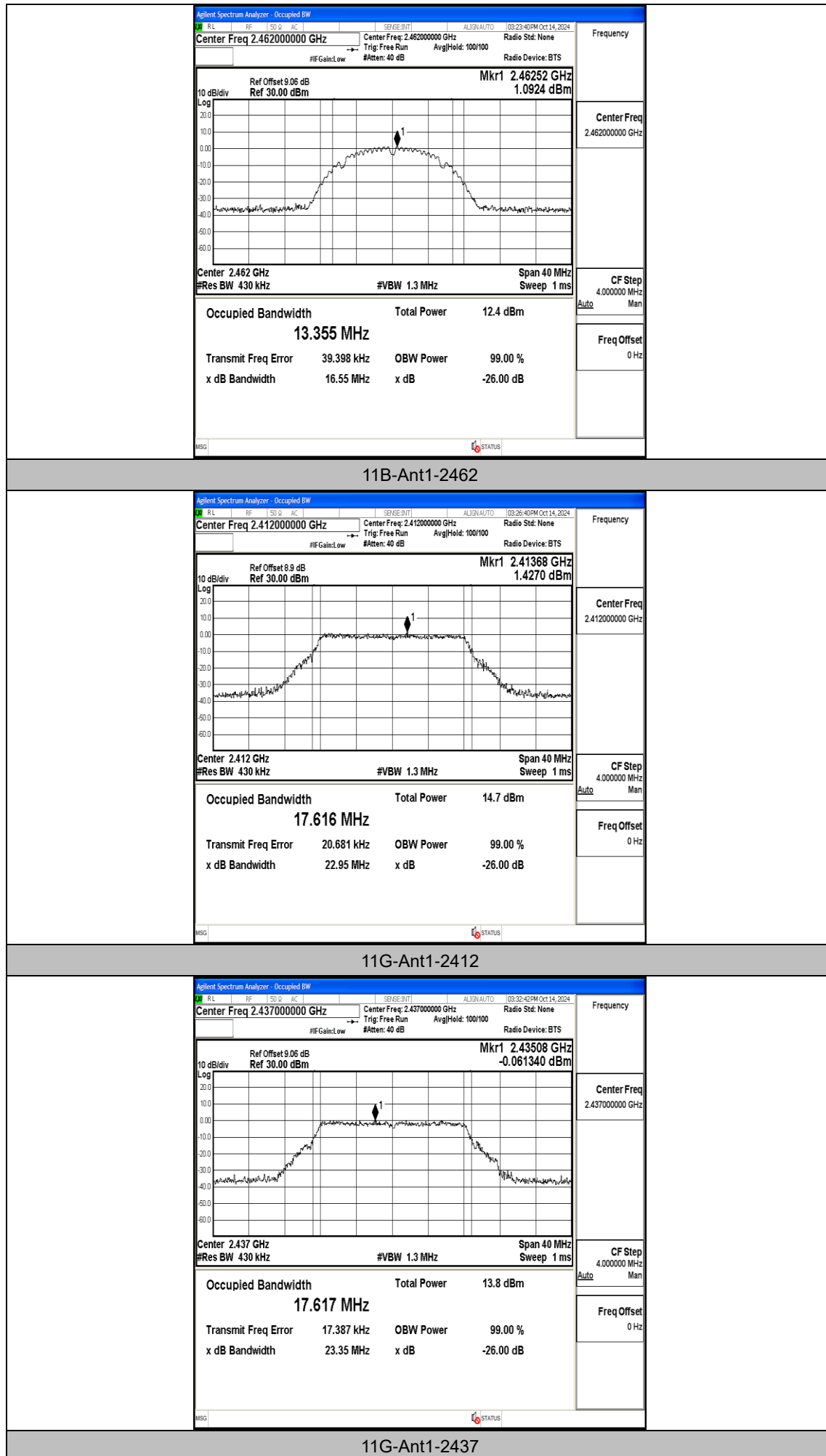
Appendix B: Occupied Channel Bandwidth

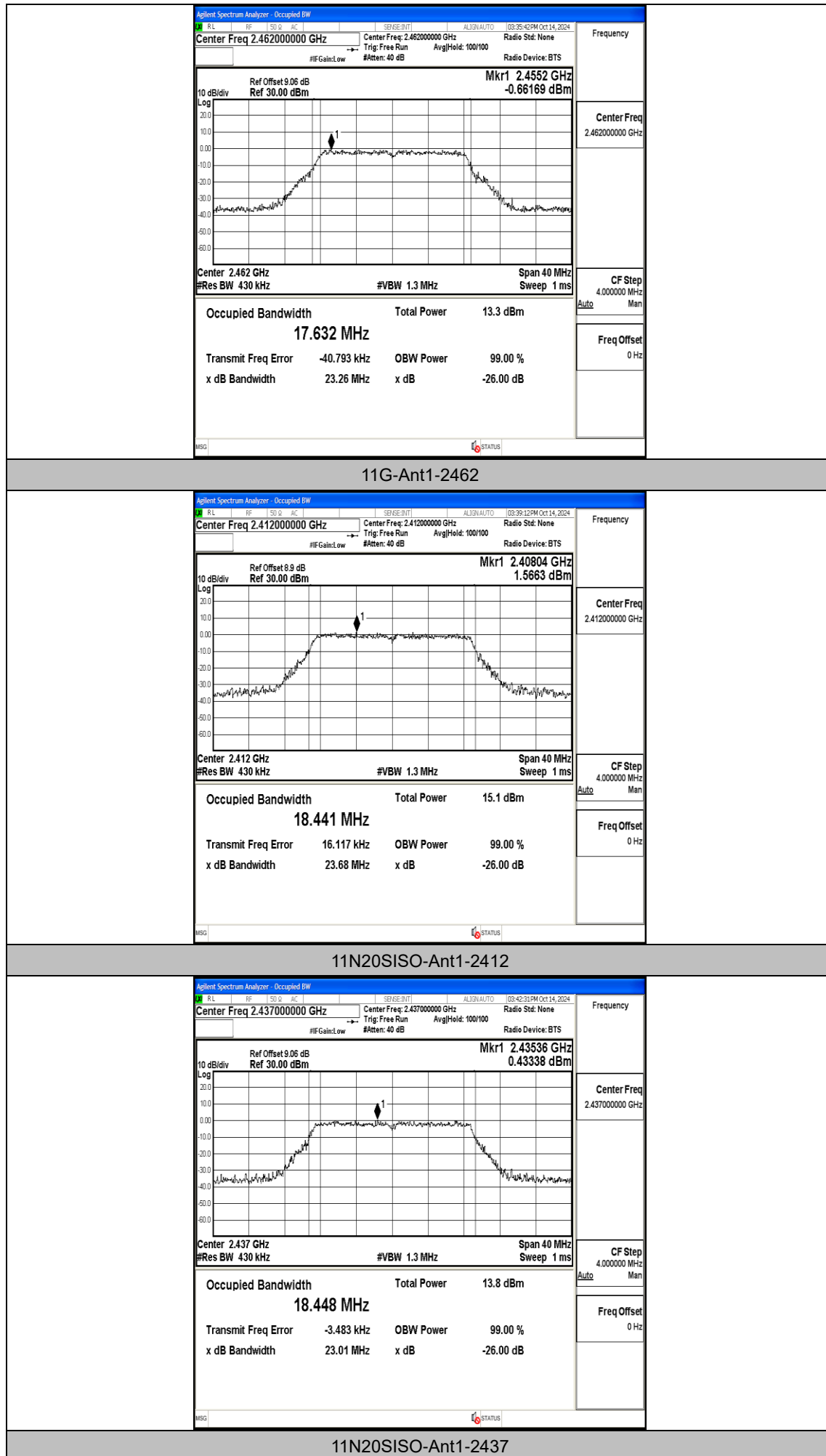
Test Result

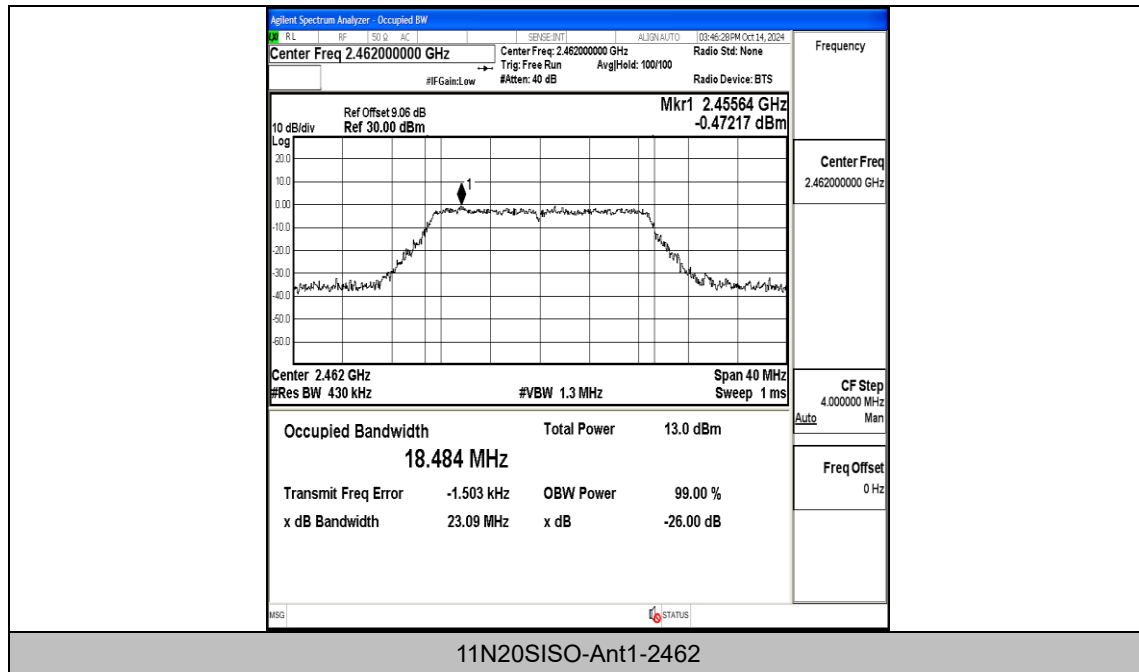
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	13.312	2405.3707	2418.6827	---	---
11B	Ant1	2437	13.286	2430.3957	2443.6817	---	---
11B	Ant1	2462	13.355	2455.3619	2468.7169	---	---
11G	Ant1	2412	17.616	2403.2127	2420.8287	---	---
11G	Ant1	2437	17.617	2428.2089	2445.8259	---	---
11G	Ant1	2462	17.632	2453.1432	2470.7752	---	---
11N20SISO	Ant1	2412	18.441	2402.7956	2421.2366	---	---
11N20SISO	Ant1	2437	18.448	2427.7725	2446.2205	---	---
11N20SISO	Ant1	2462	18.484	2452.7565	2471.2405	---	---

Test Graphs









Appendix C: Maximum Average conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	10.96	≤30.00	PASS
11B	Ant1	2437	10.11	≤30.00	PASS
11B	Ant1	2462	8.45	≤30.00	PASS
11G	Ant1	2412	9.02	≤30.00	PASS
11G	Ant1	2437	8.47	≤30.00	PASS
11G	Ant1	2462	7.52	≤30.00	PASS
11N20SISO	Ant1	2412	9.98	≤30.00	PASS
11N20SISO	Ant1	2437	8.44	≤30.00	PASS
11N20SISO	Ant1	2462	8.00	≤30.00	PASS

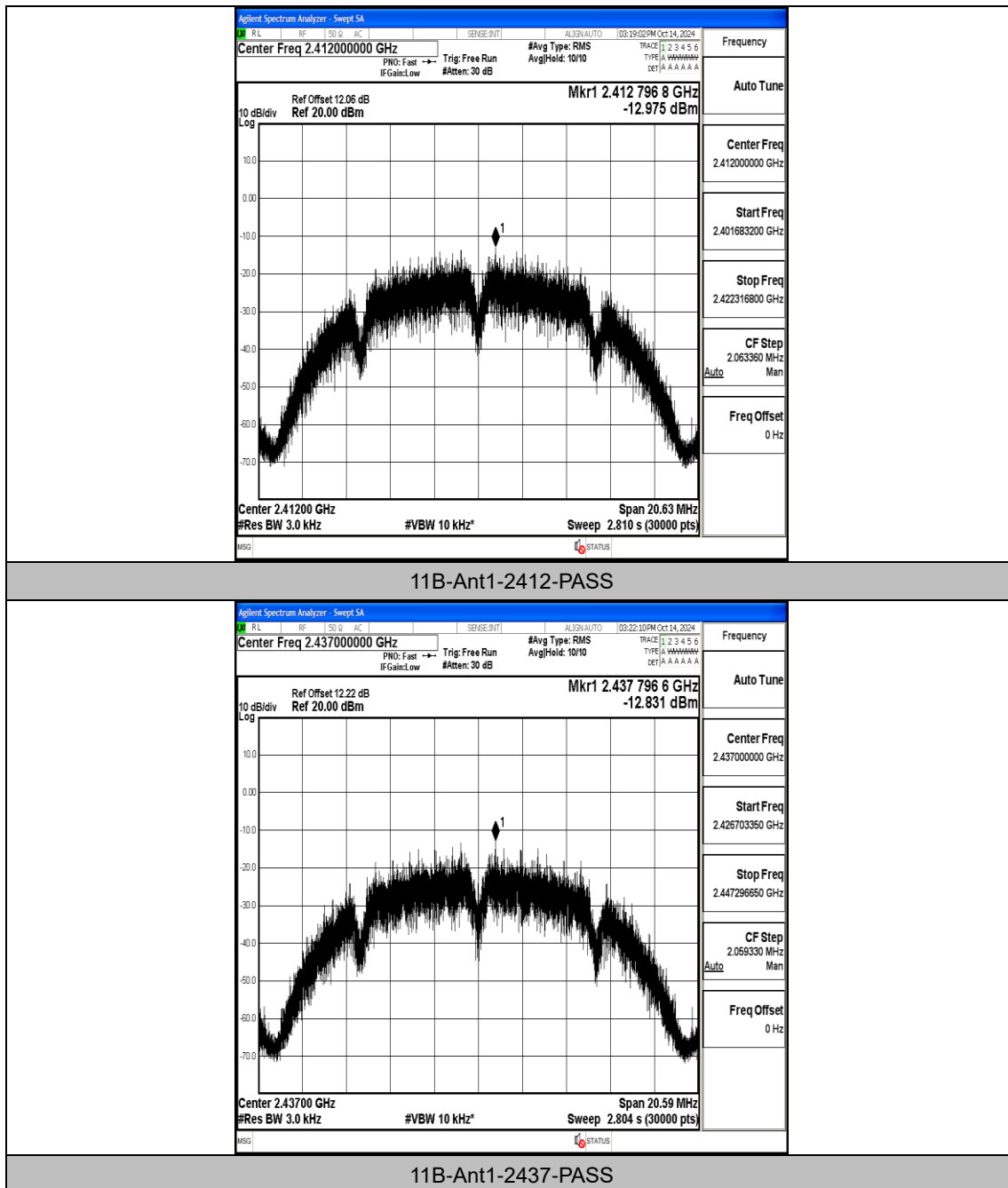
Note: The Duty Cycle Factor is compensated in the result.

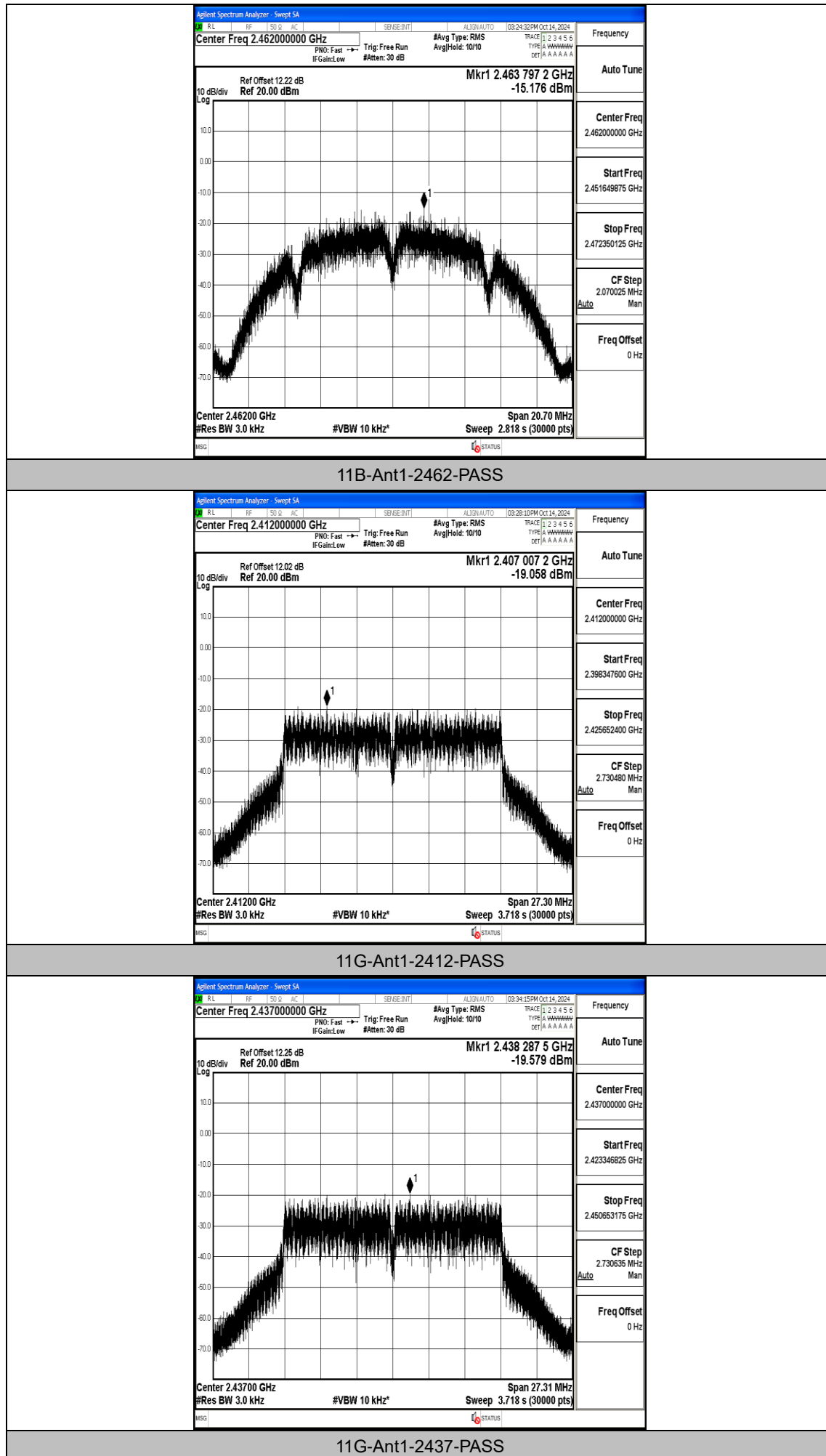
Appendix D: Maximum Average power spectral density

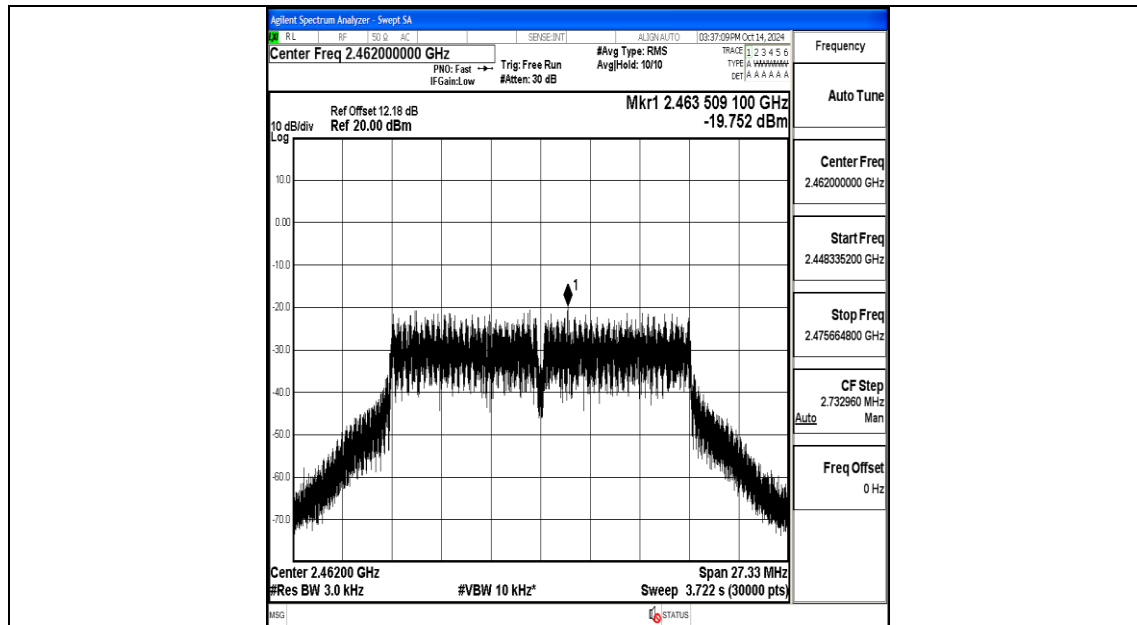
Test Result

Test Mode	Antenna	Frequency [MHz]	Raw. Data [dBm/3-100kHz]	Dc. Factor	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-16.14	3.16	-12.98	≤8.00	PASS
11B	Ant1	2437	-15.99	3.16	-12.83	≤8.00	PASS
11B	Ant1	2462	-18.34	3.16	-15.18	≤8.00	PASS
11G	Ant1	2412	-22.18	3.12	-19.06	≤8.00	PASS
11G	Ant1	2437	-22.77	3.19	-19.58	≤8.00	PASS
11G	Ant1	2462	-22.87	3.12	-19.75	≤8.00	PASS
11N20SI SO	Ant1	2412	-21.16	3.27	-17.89	≤8.00	PASS
11N20SI SO	Ant1	2437	-22.14	3.27	-18.87	≤8.00	PASS
11N20SI SO	Ant1	2462	-23.35	3.27	-20.08	≤8.00	PASS

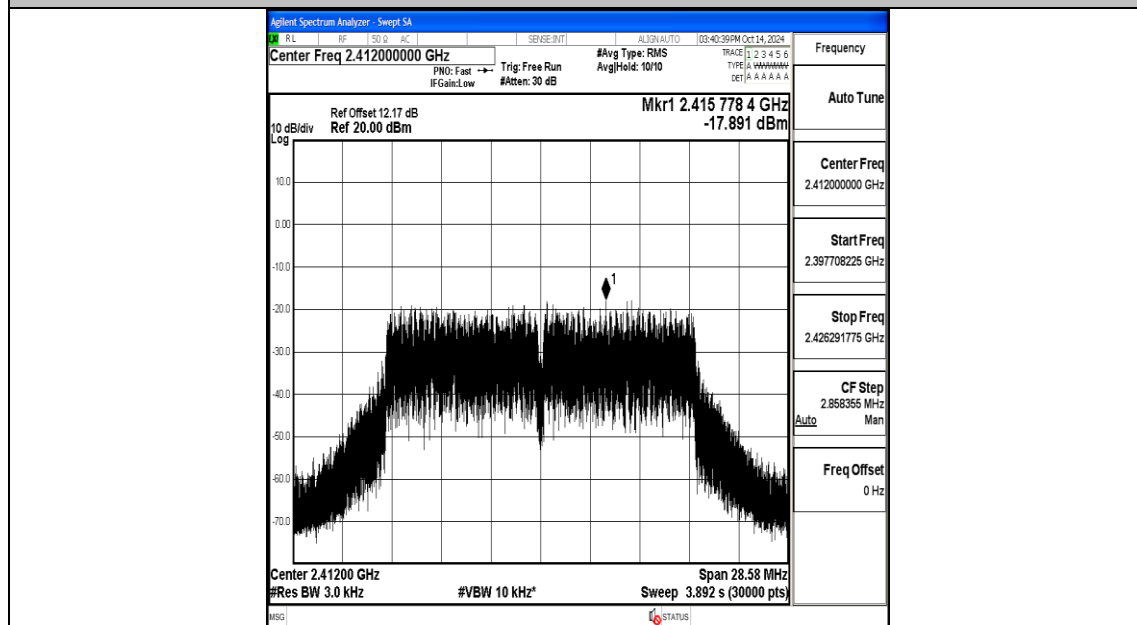
Test Graphs



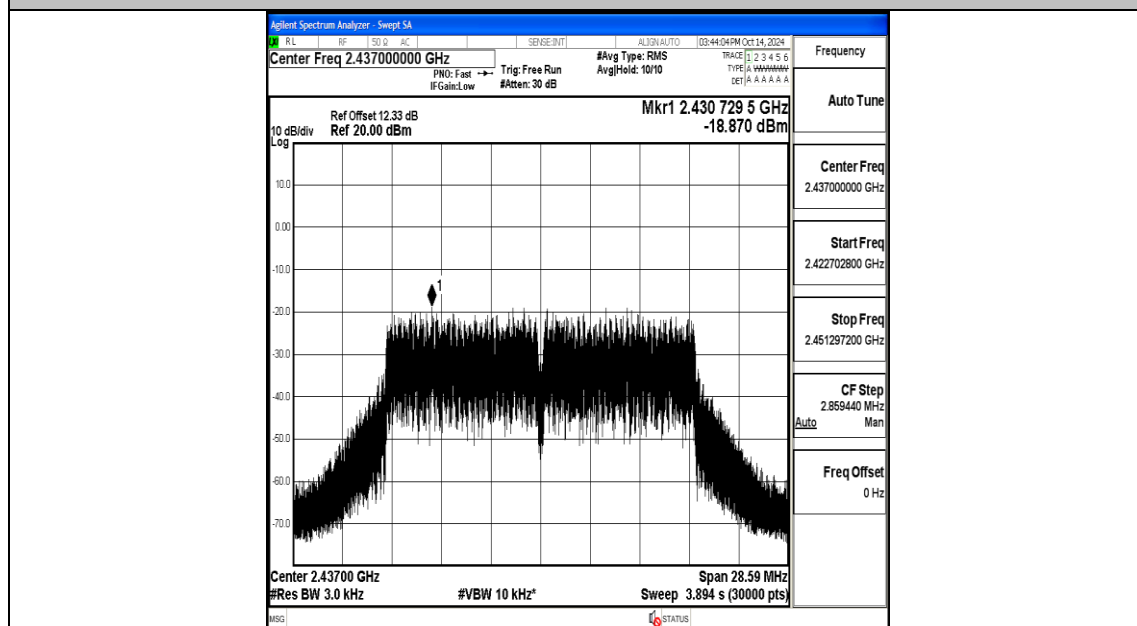




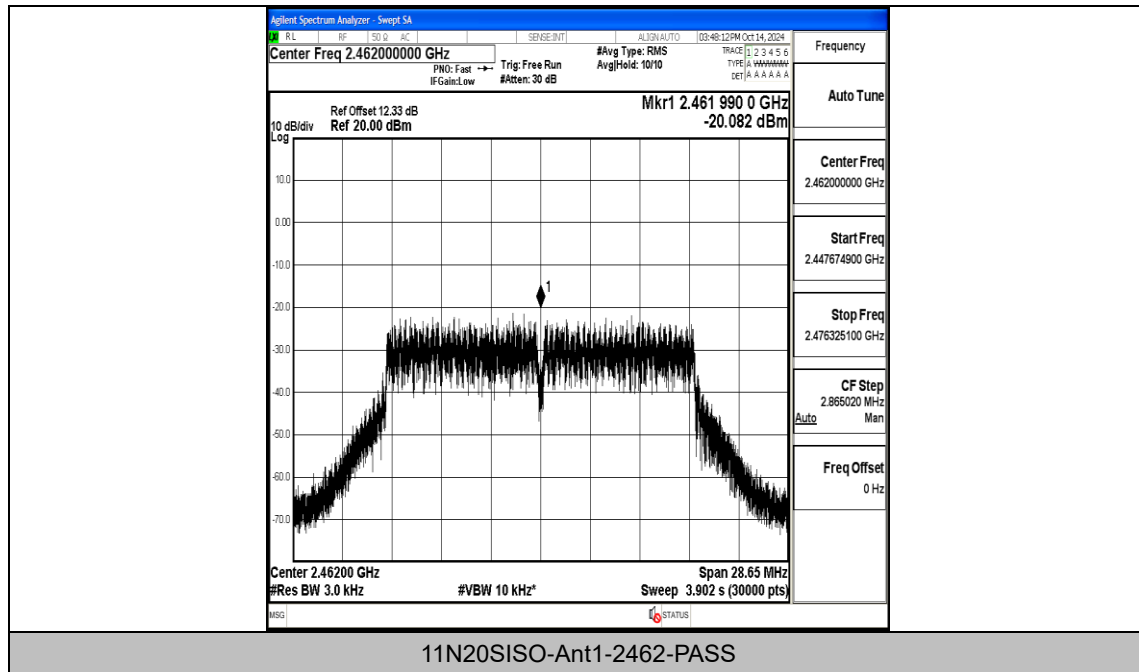
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS

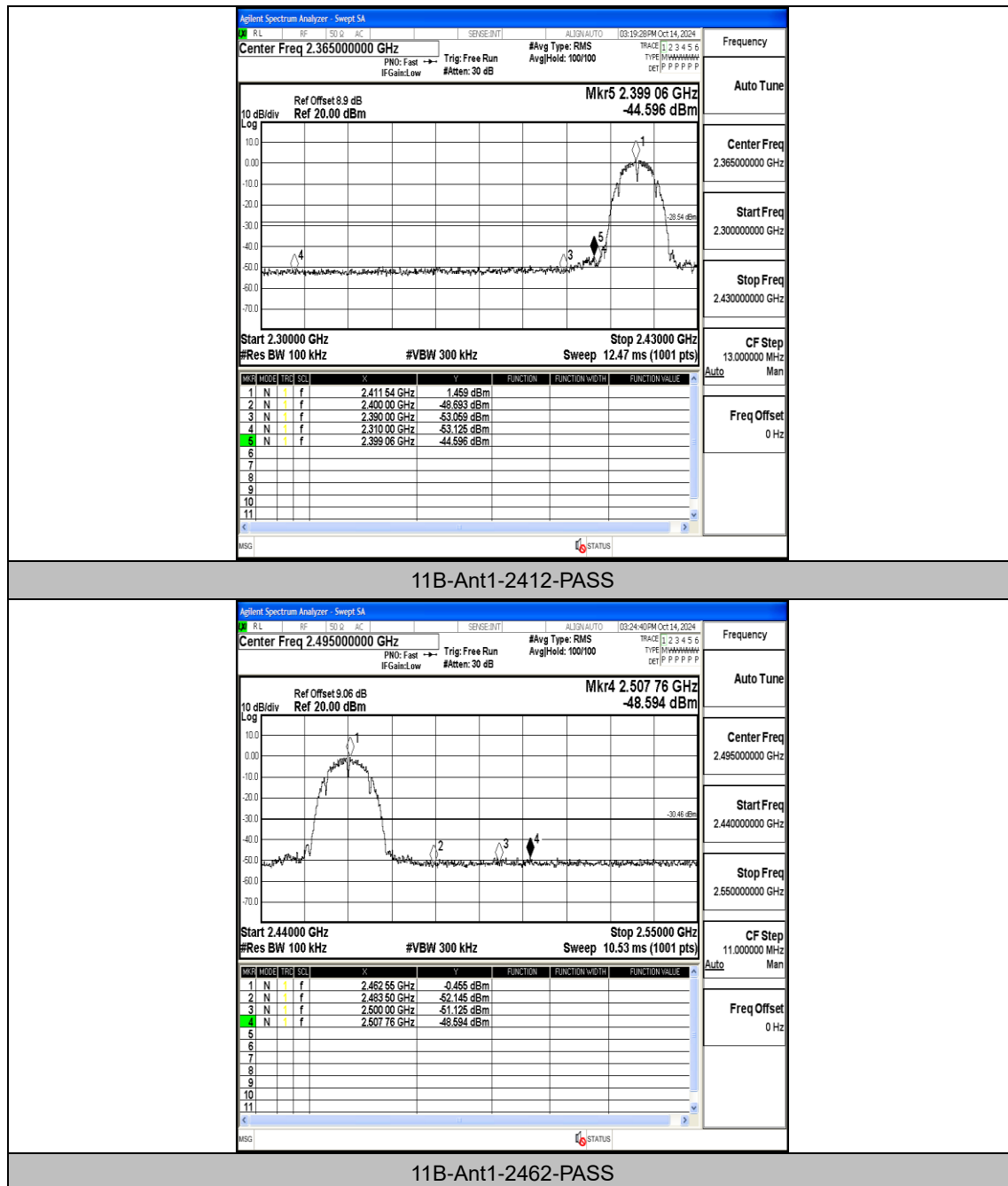


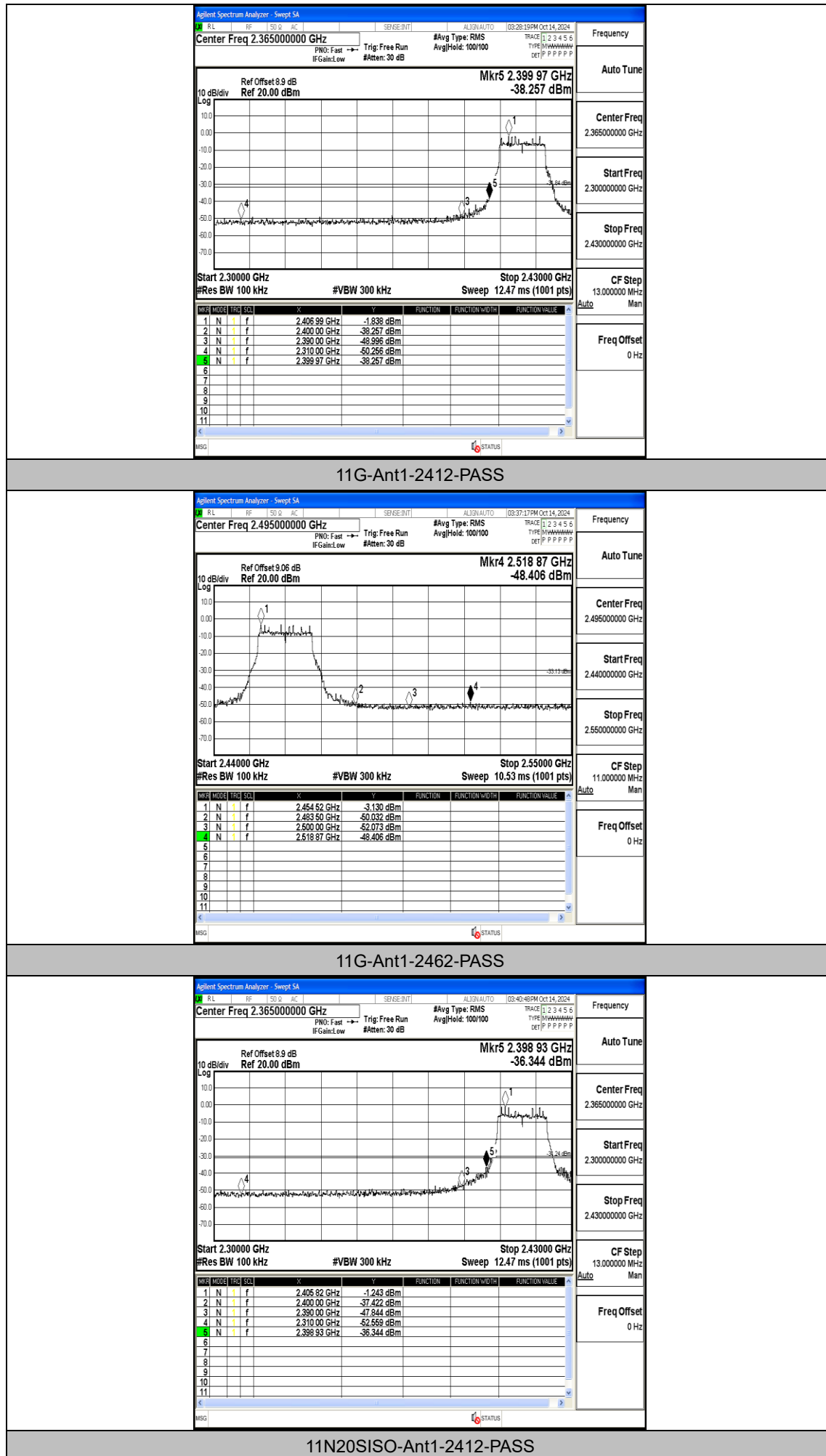
Appendix E: Band edge measurements

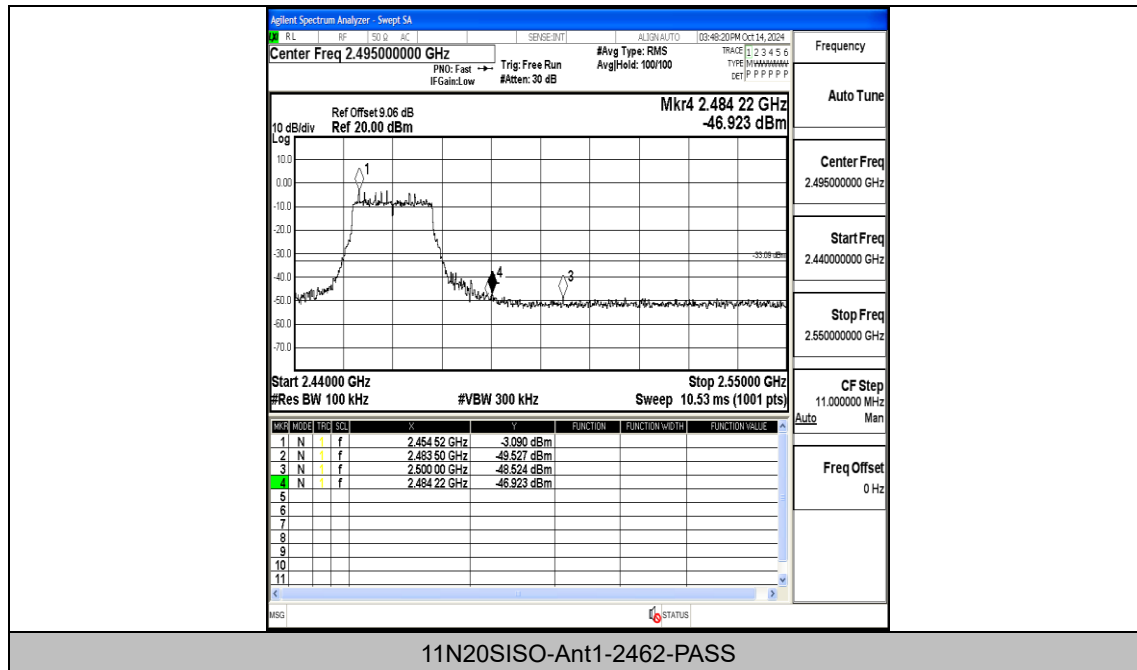
Test Result

Test Mode	Antenna	Ch. Name	Frequency. [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	1.46	-44.6	≤ -28.54	PASS
11B	Ant1	High	2462	-0.46	-48.59	≤ -30.46	PASS
11G	Ant1	Low	2412	-1.84	-38.26	≤ -31.84	PASS
11G	Ant1	High	2462	-3.13	-48.41	≤ -33.13	PASS
11N20SI SO	Ant1	Low	2412	-1.24	-36.34	≤ -31.24	PASS
11N20SI SO	Ant1	High	2462	-3.09	-46.92	≤ -33.09	PASS

Test Graphs





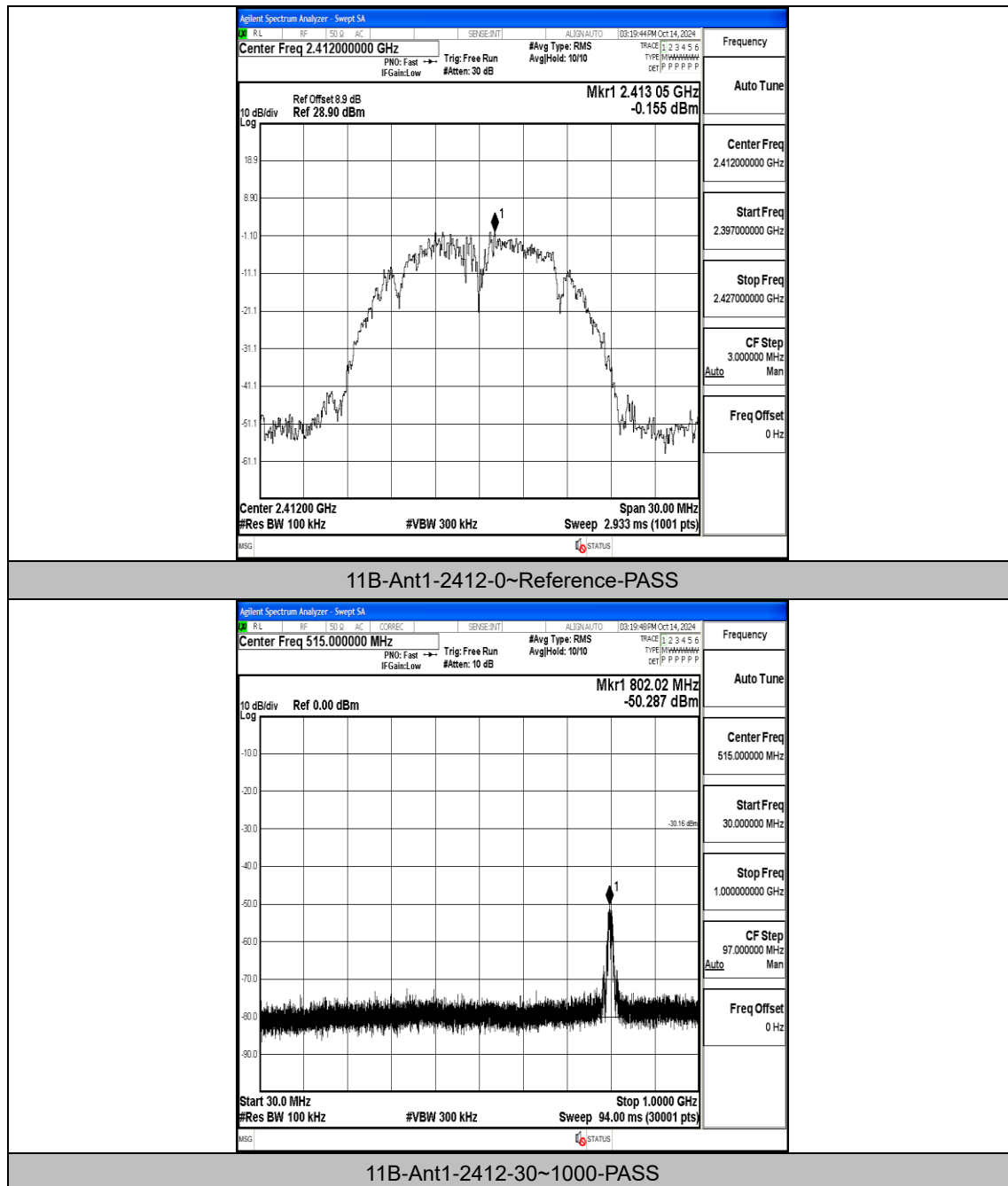


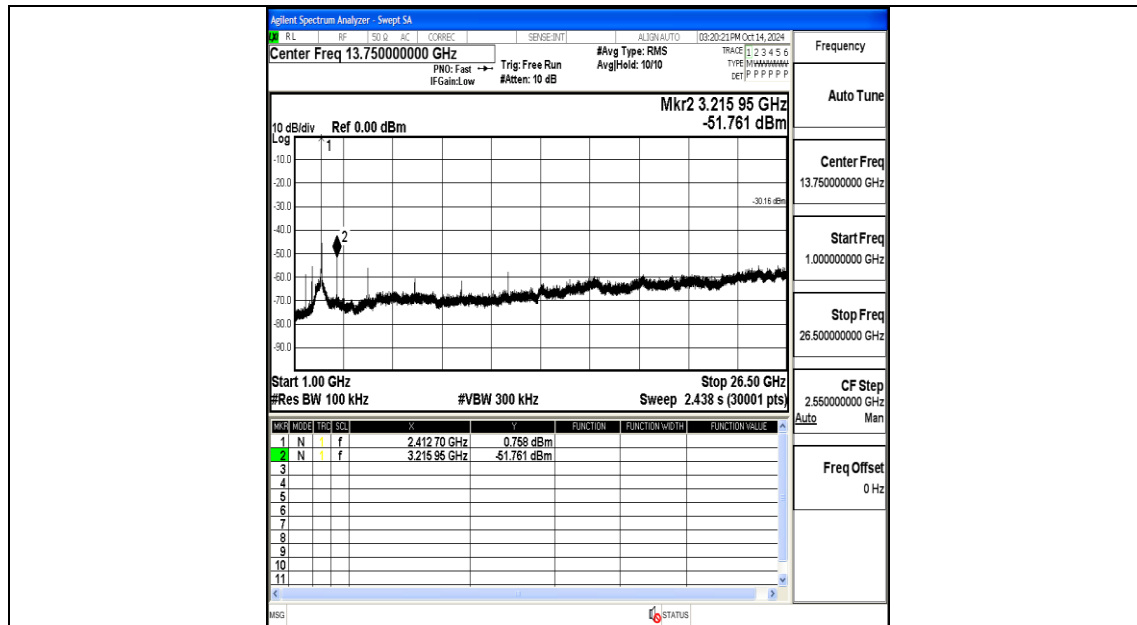
Appendix F: Conducted Spurious Emission

Test Result

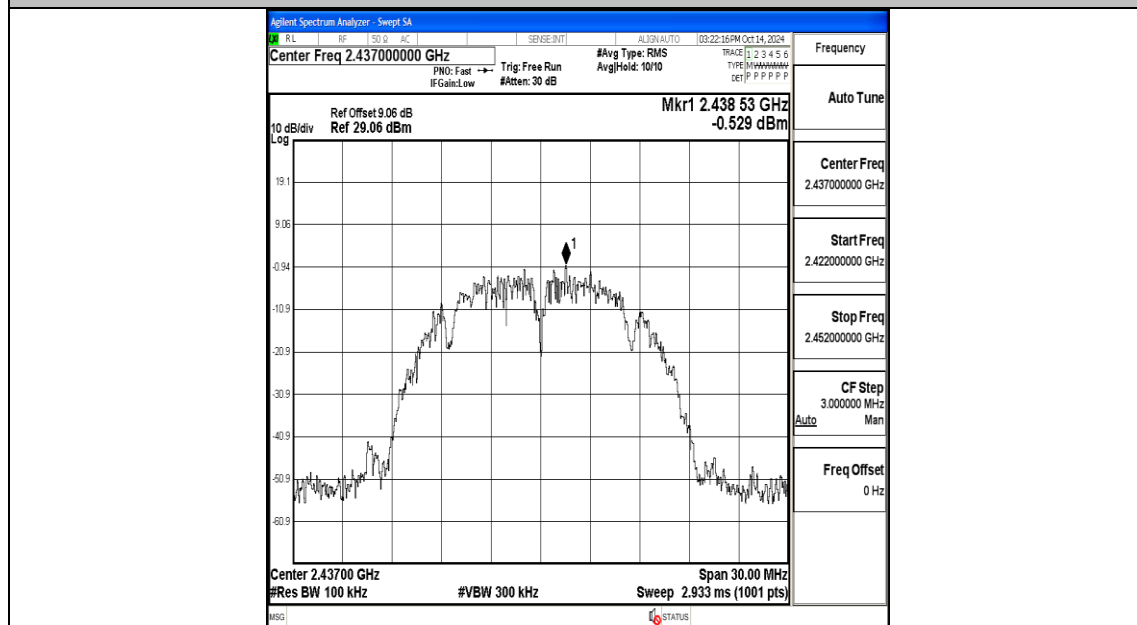
Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-0.16	-0.16	---	PASS
11B	Ant1	2412	30~1000	-0.16	-50.29	≤-30.16	PASS
11B	Ant1	2412	1000~26500	-0.16	-51.76	≤-30.16	PASS
11B	Ant1	2437	0~Reference	-0.53	-0.53	---	PASS
11B	Ant1	2437	30~1000	-0.53	-50.01	≤-30.53	PASS
11B	Ant1	2437	1000~26500	-0.53	-46.36	≤-30.53	PASS
11B	Ant1	2462	0~Reference	-0.98	-0.98	---	PASS
11B	Ant1	2462	30~1000	-0.98	-49.96	≤-30.98	PASS
11B	Ant1	2462	1000~26500	-0.98	-53.45	≤-30.98	PASS
11G	Ant1	2412	0~Reference	-3.16	-3.16	---	PASS
11G	Ant1	2412	30~1000	-3.16	-53.4	≤-33.16	PASS
11G	Ant1	2412	1000~26500	-3.16	-51.66	≤-33.16	PASS
11G	Ant1	2437	0~Reference	-5.68	-5.68	---	PASS
11G	Ant1	2437	30~1000	-5.68	-53.31	≤-35.68	PASS
11G	Ant1	2437	1000~26500	-5.68	-52.38	≤-35.68	PASS
11G	Ant1	2462	0~Reference	-7.21	-7.21	---	PASS
11G	Ant1	2462	30~1000	-7.21	-50.91	≤-37.21	PASS
11G	Ant1	2462	1000~26500	-7.21	-53.86	≤-37.21	PASS
11N20SISO	Ant1	2412	0~Reference	-2.21	-2.21	---	PASS
11N20SISO	Ant1	2412	30~1000	-2.21	-48.79	≤-32.21	PASS
11N20SISO	Ant1	2412	1000~26500	-2.21	-51.64	≤-32.21	PASS
11N20SISO	Ant1	2437	0~Reference	-3.30	-3.30	---	PASS
11N20SISO	Ant1	2437	30~1000	-3.30	-49.39	≤-33.3	PASS
11N20SISO	Ant1	2437	1000~26500	-3.30	-52.36	≤-33.3	PASS
11N20SISO	Ant1	2462	0~Reference	-3.41	-3.41	---	PASS
11N20SISO	Ant1	2462	30~1000	-3.41	-50.1	≤-33.41	PASS
11N20SISO	Ant1	2462	1000~26500	-3.41	-53.81	≤-33.41	PASS

Test Graphs

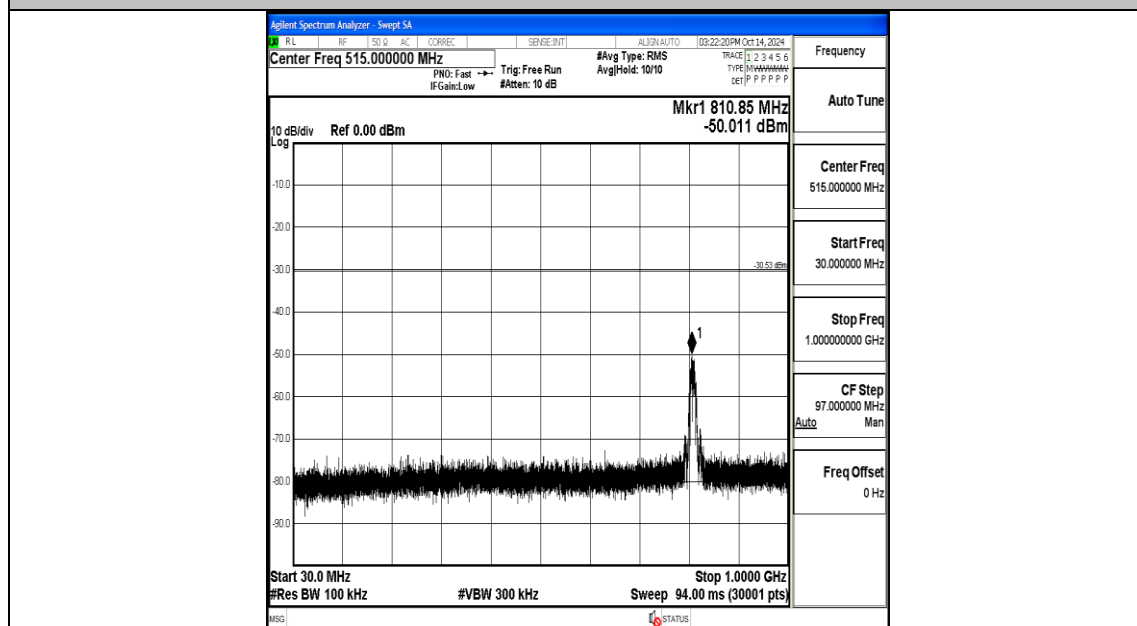




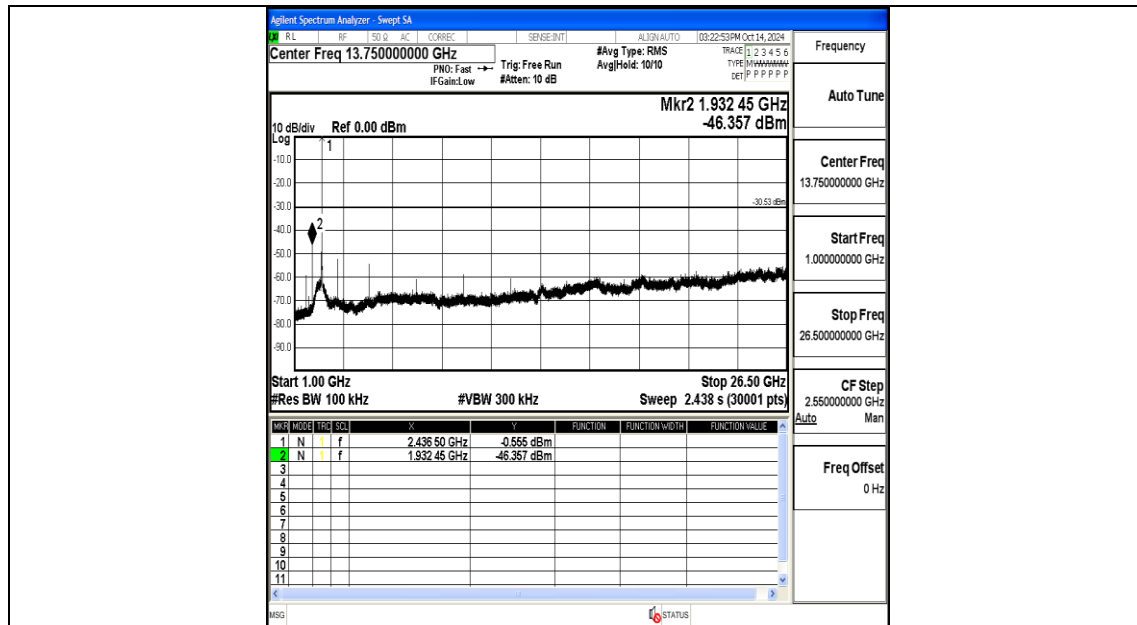
11B-Ant1-2412-1000~26500-PASS



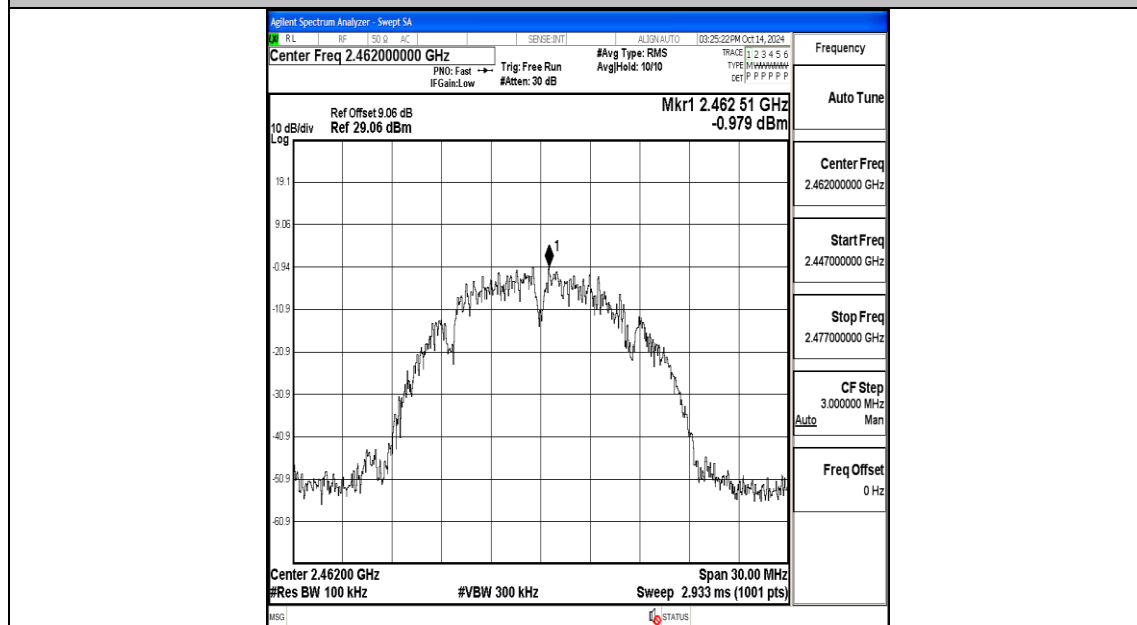
11B-Ant1-2437-0~Reference-PASS



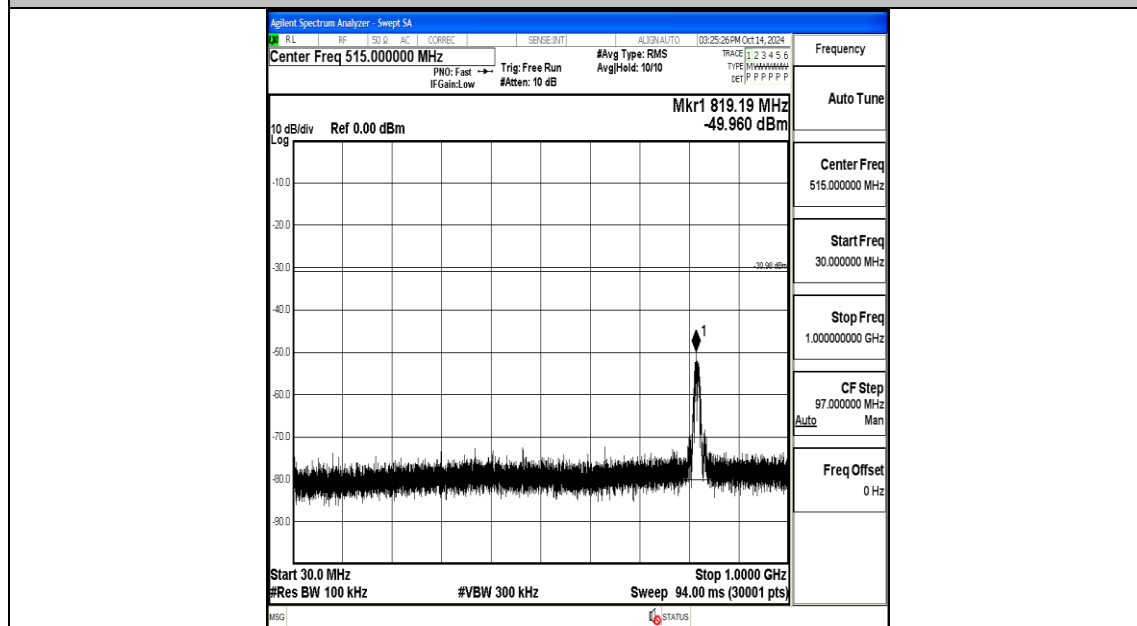
11B-Ant1-2437-30~1000-PASS



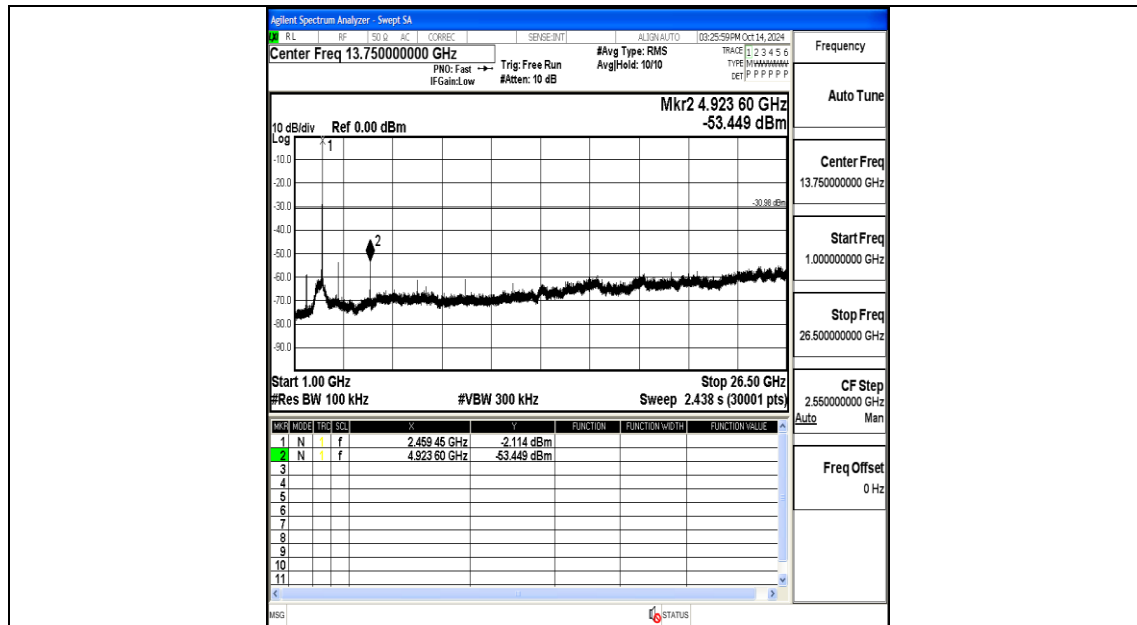
11B-Ant1-2437-1000~26500-PASS



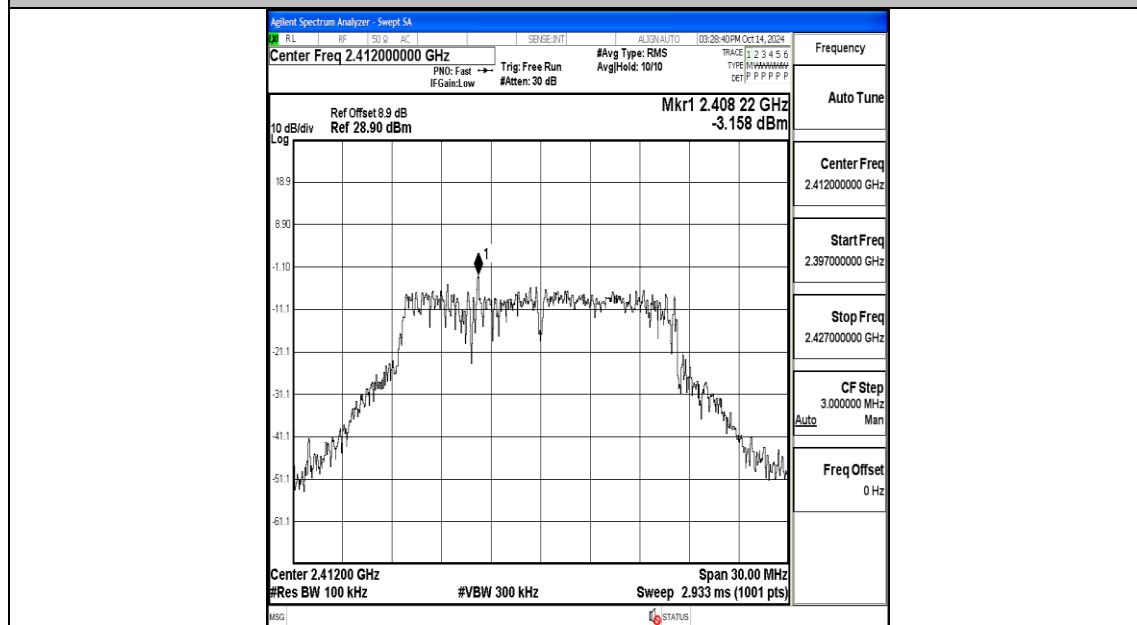
11B-Ant1-2462-0~Reference-PASS



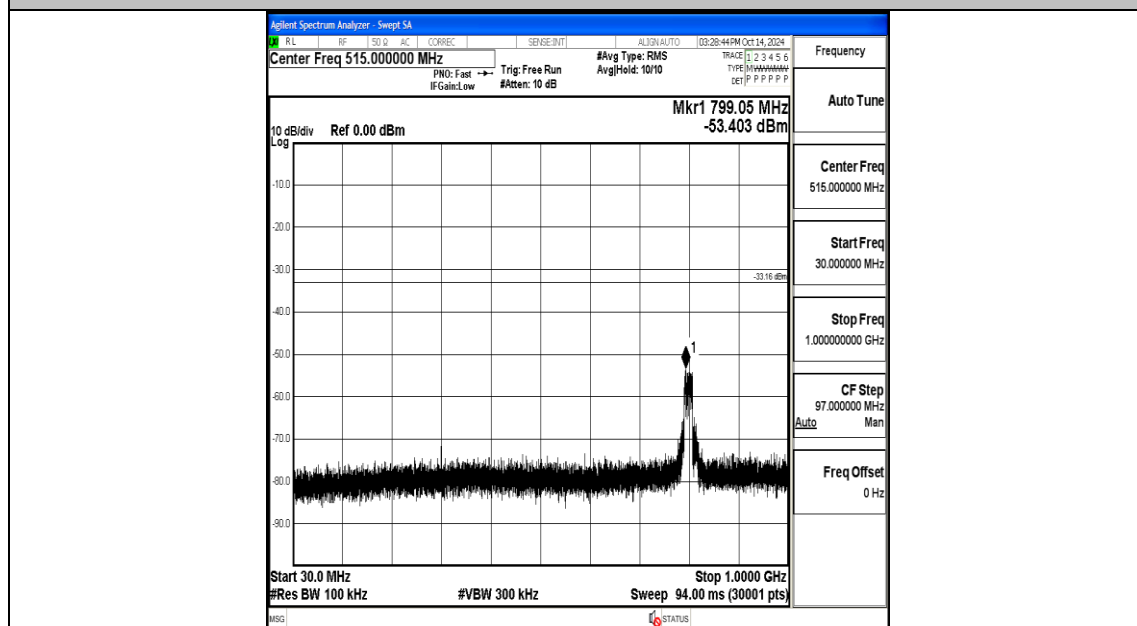
11B-Ant1-2462-30~1000-PASS



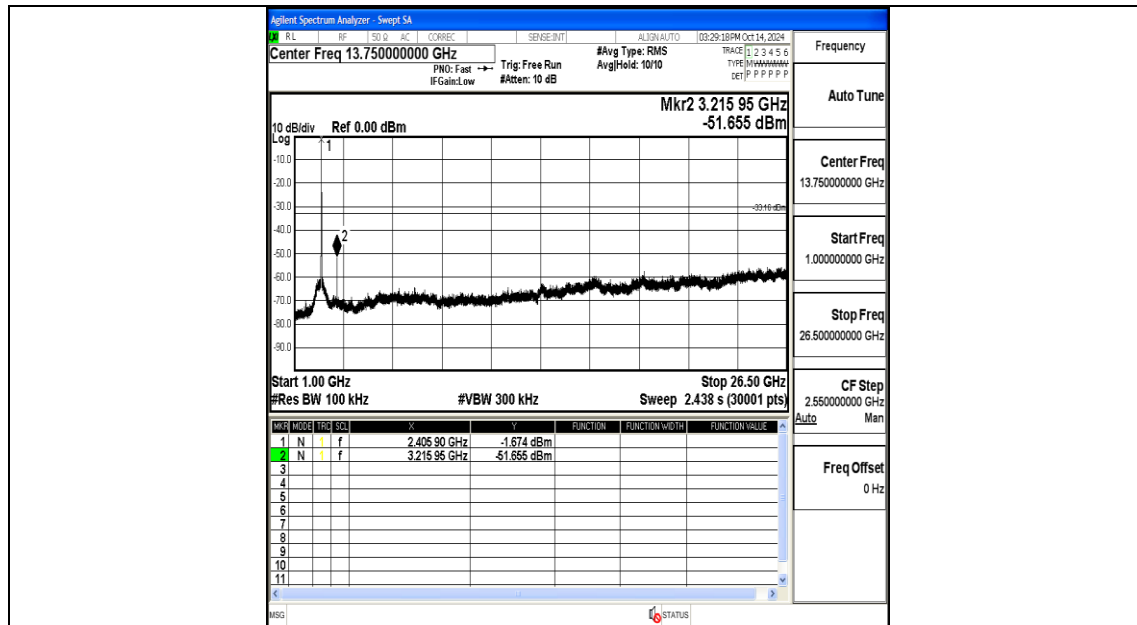
11B-Ant1-2462-1000~26500-PASS



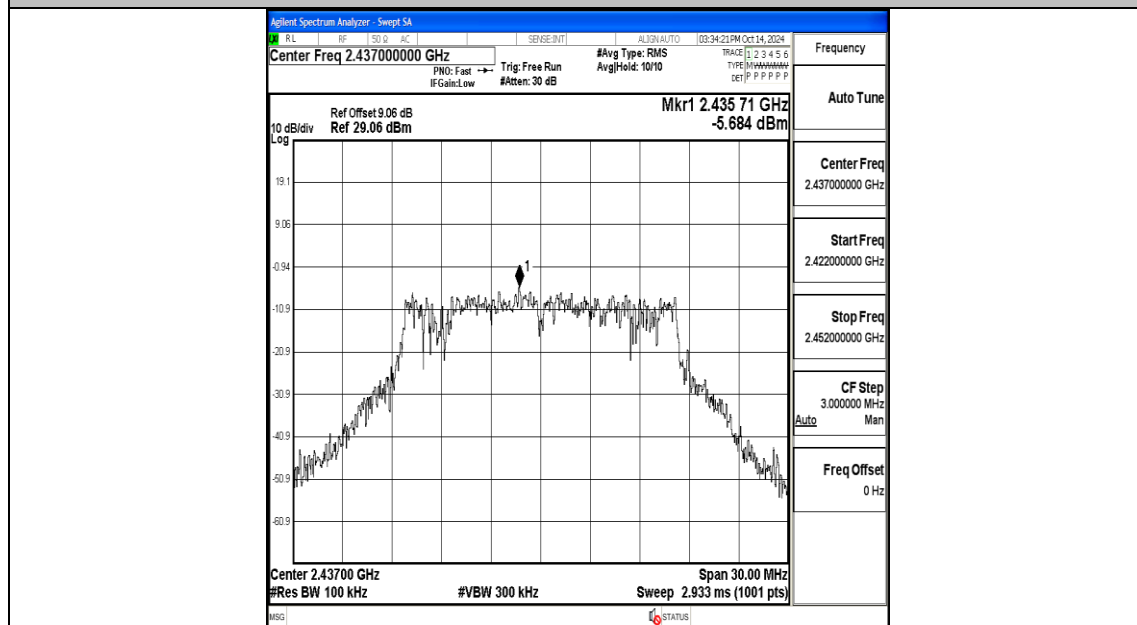
11G-Ant1-2412-0~Reference-PASS



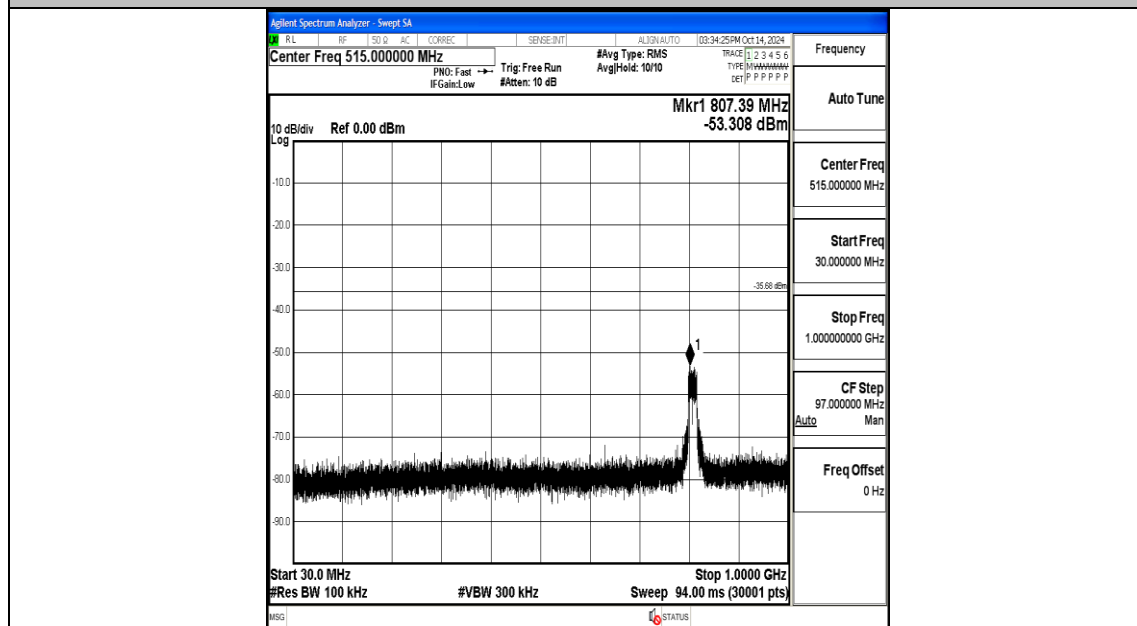
11G-Ant1-2412-30~1000-PASS



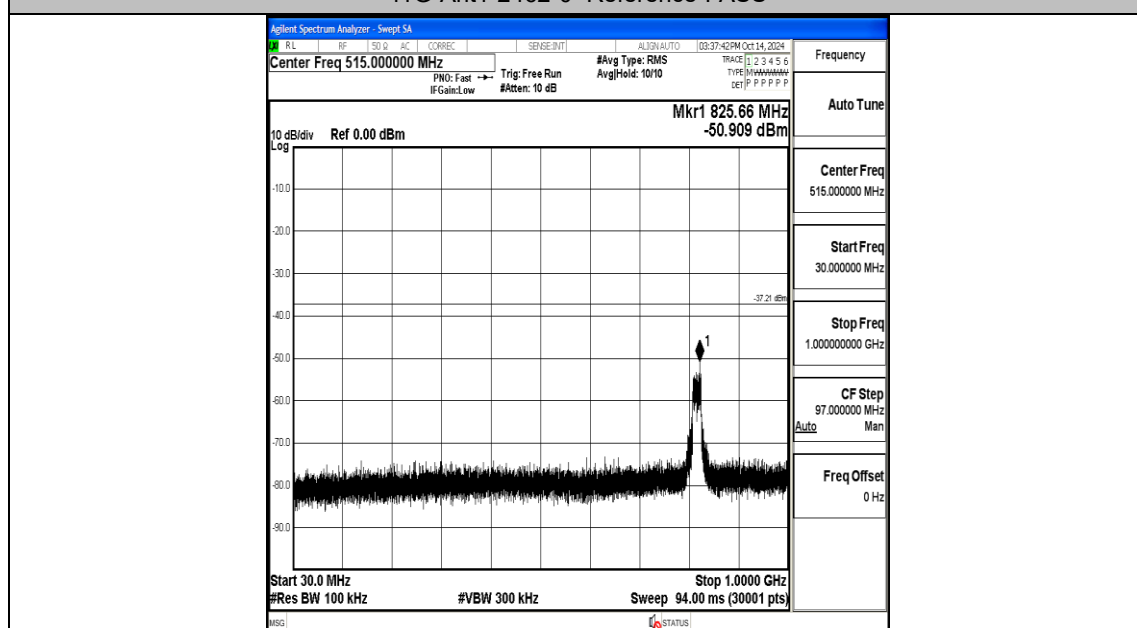
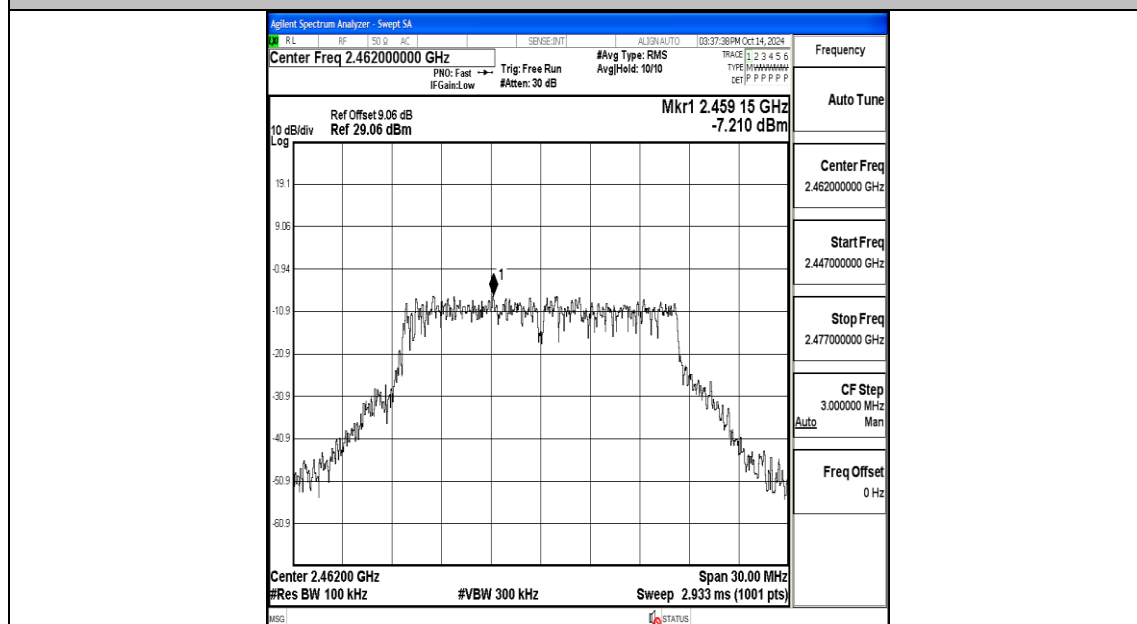
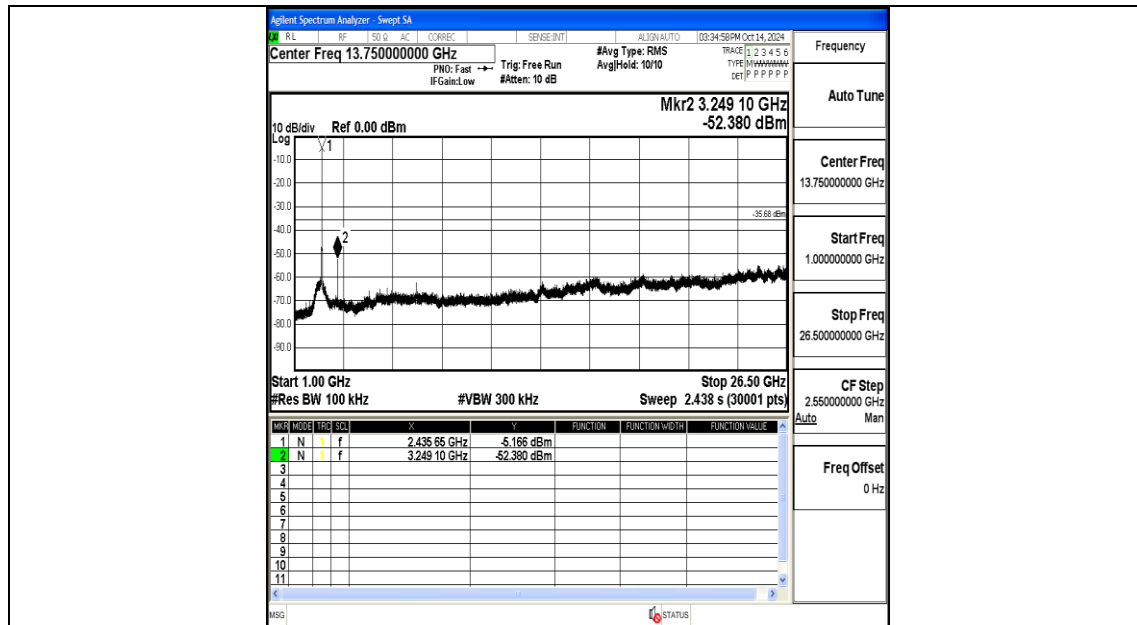
11G-Ant1-2412-1000~26500-PASS

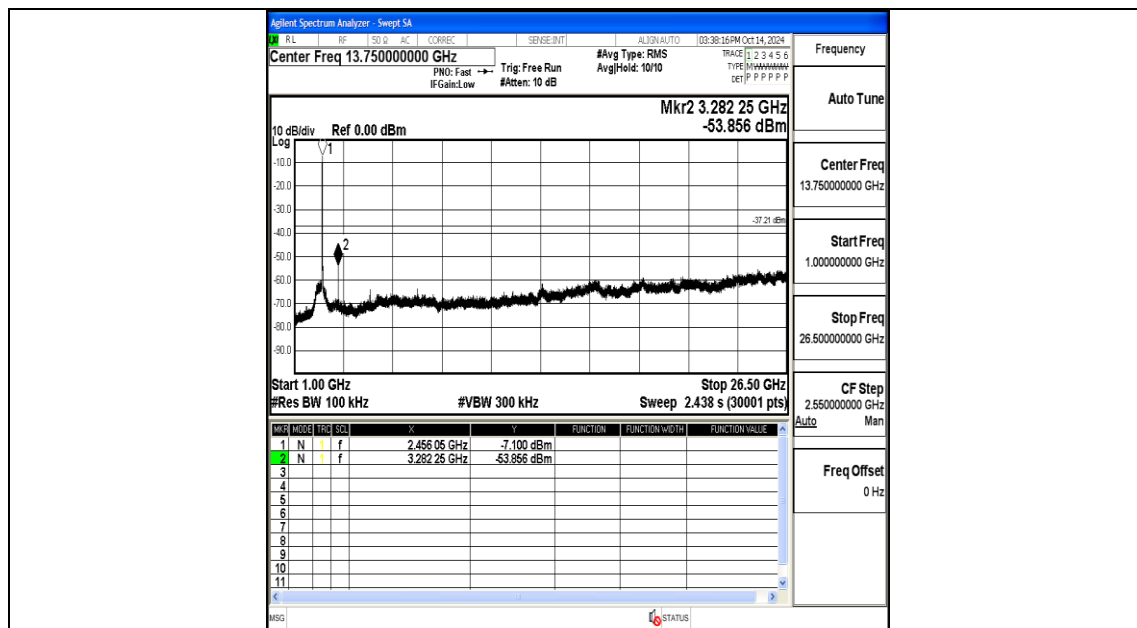


11G-Ant1-2437-0~Reference-PASS

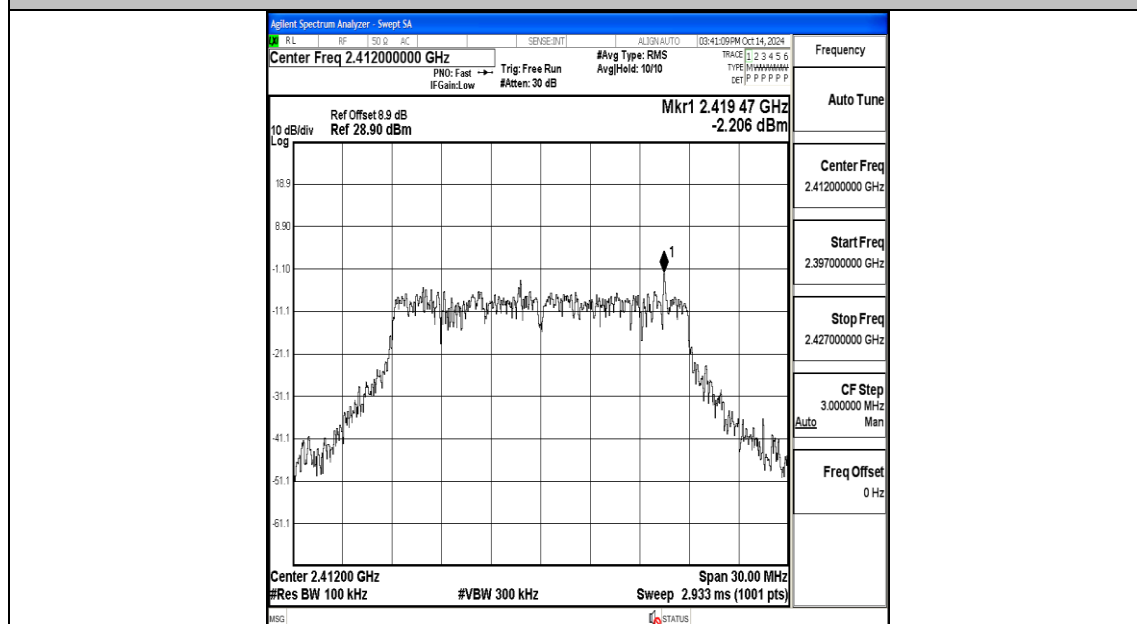


11G-Ant1-2437-30~1000-PASS

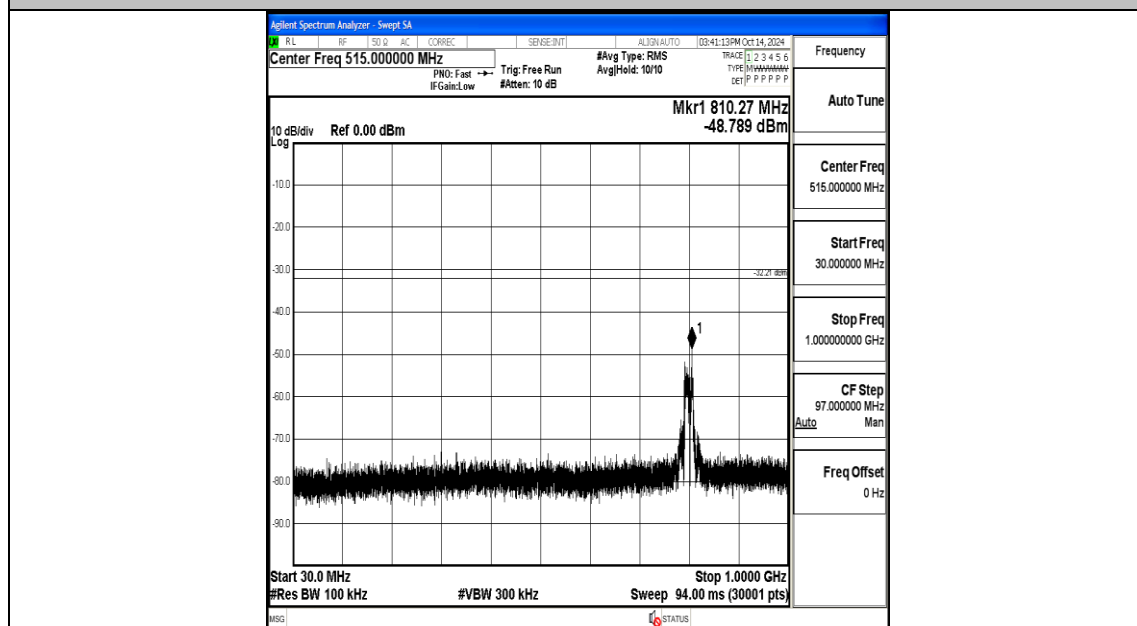




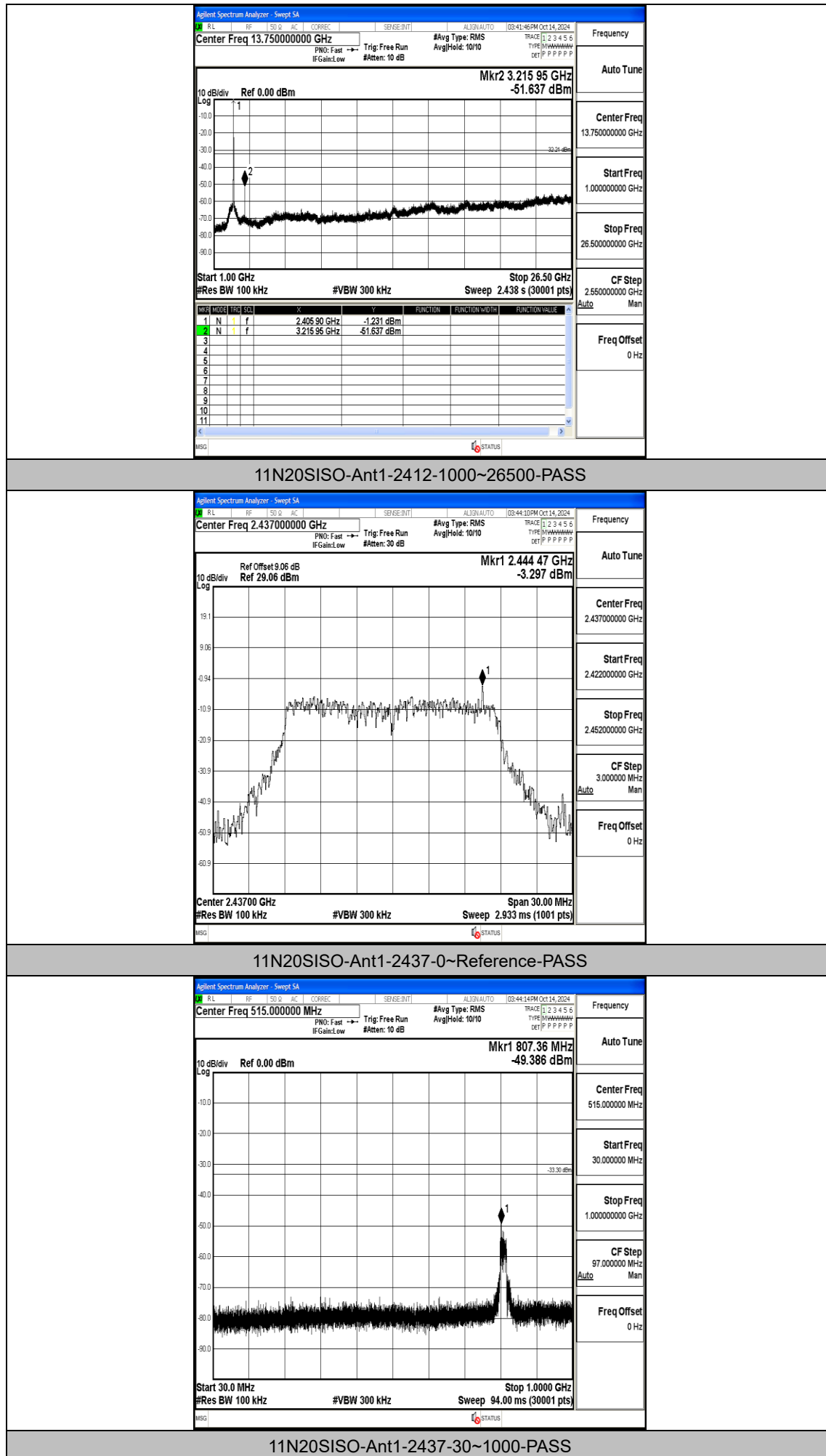
11G-Ant1-2462-1000~26500-PASS

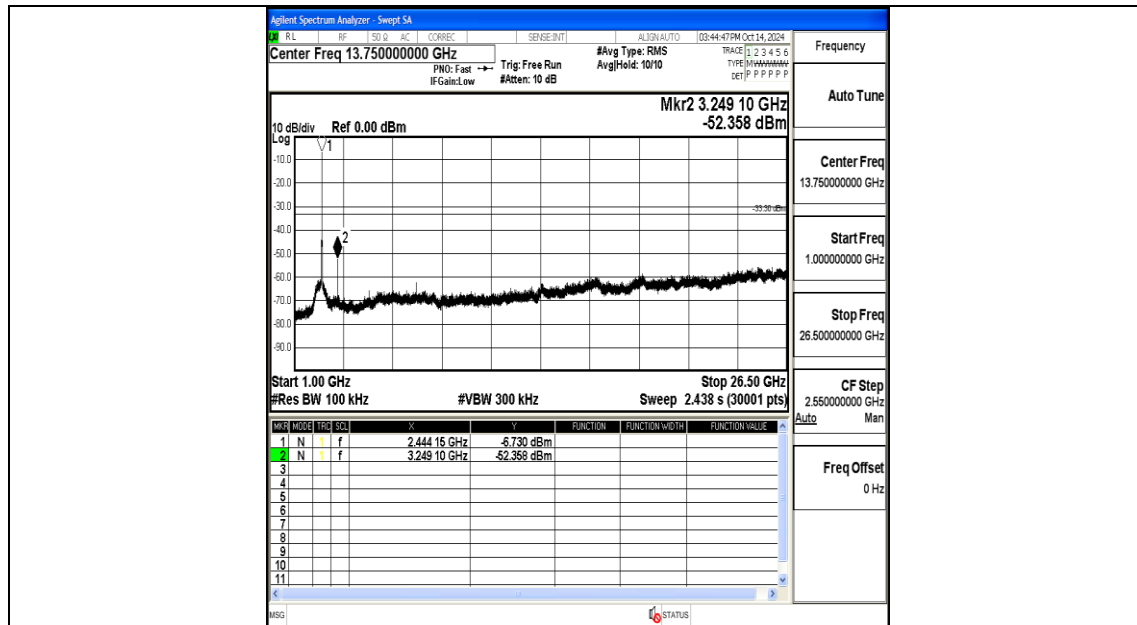


11N20SISO-Ant1-2412-0~Reference-PASS

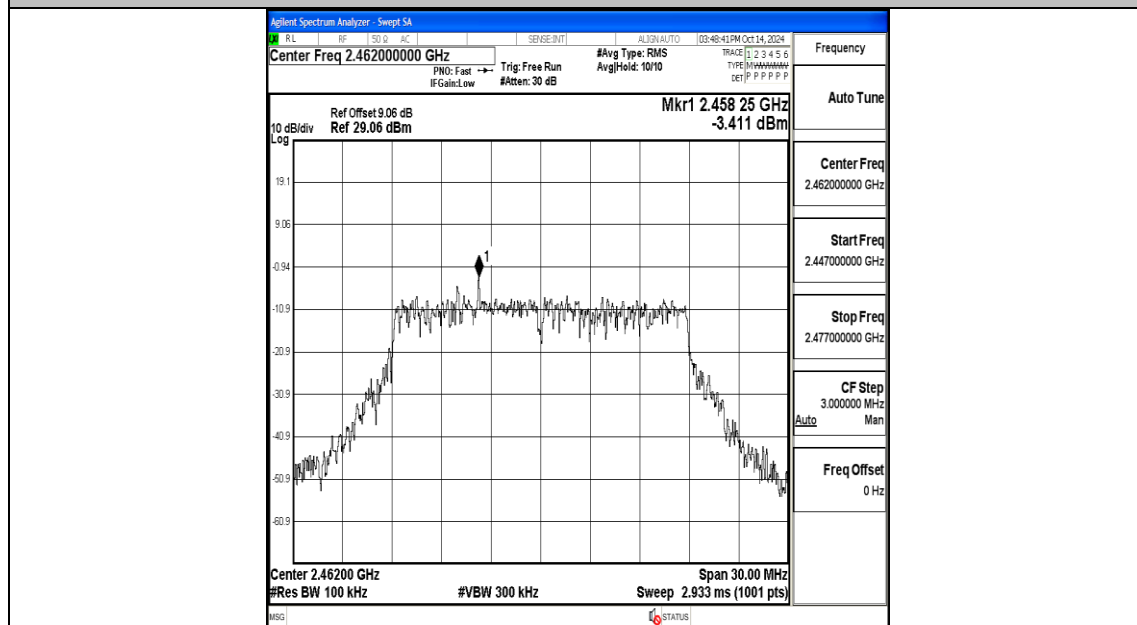


11N20SISO-Ant1-2412-30~1000-PASS

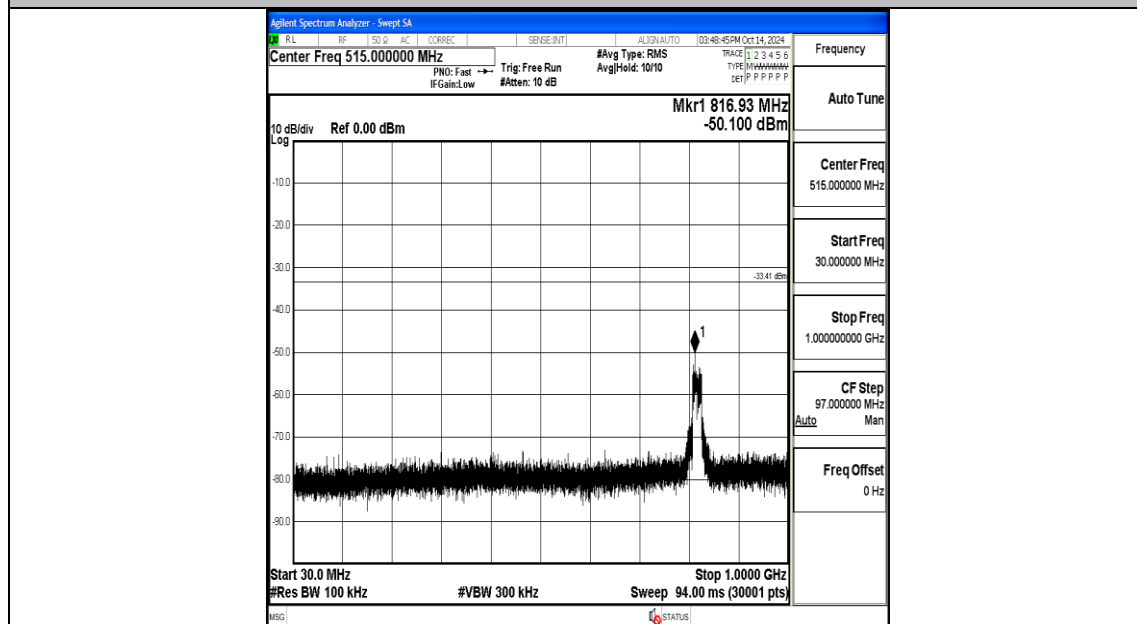




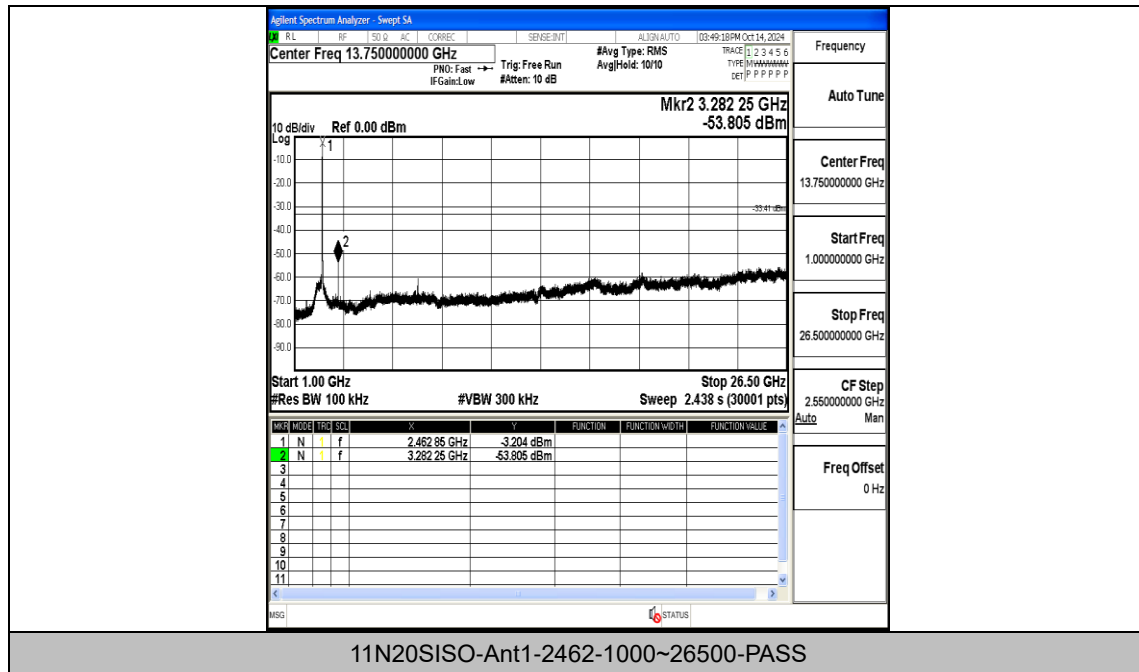
11N20SISO-Ant1-2437-1000~26500-PASS



11N20SISO-Ant1-2462-0~Reference-PASS



11N20SISO-Ant1-2462-30~1000-PASS



Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	0.59	1.22	48.36	3.16
11B	Ant1	2437	0.59	1.22	48.36	3.16
11B	Ant1	2462	0.59	1.22	48.36	3.16
11G	Ant1	2412	0.59	1.21	48.76	3.12
11G	Ant1	2437	0.58	1.21	47.93	3.19
11G	Ant1	2462	0.59	1.21	48.76	3.12
11N20SISO	Ant1	2412	0.56	1.19	47.06	3.27
11N20SISO	Ant1	2437	0.56	1.19	47.06	3.27
11N20SISO	Ant1	2462	0.56	1.19	47.06	3.27

Test Graphs

