

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

Product Name: Smart camera

Trade Mark: N/A

Test Model: A9

FCC ID: 2BL42IPCAM0A9A9WX10

Environmental Conditions

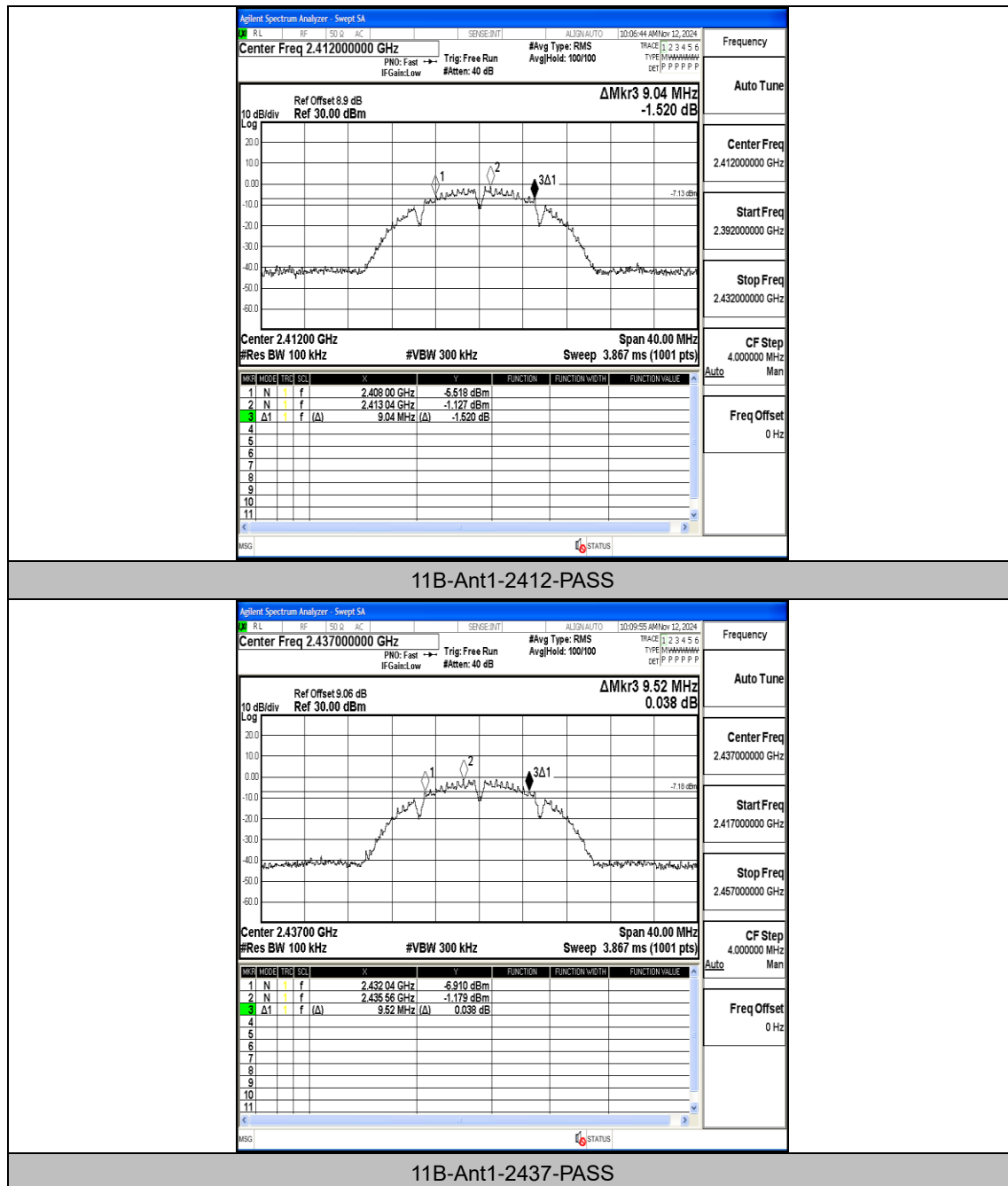
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

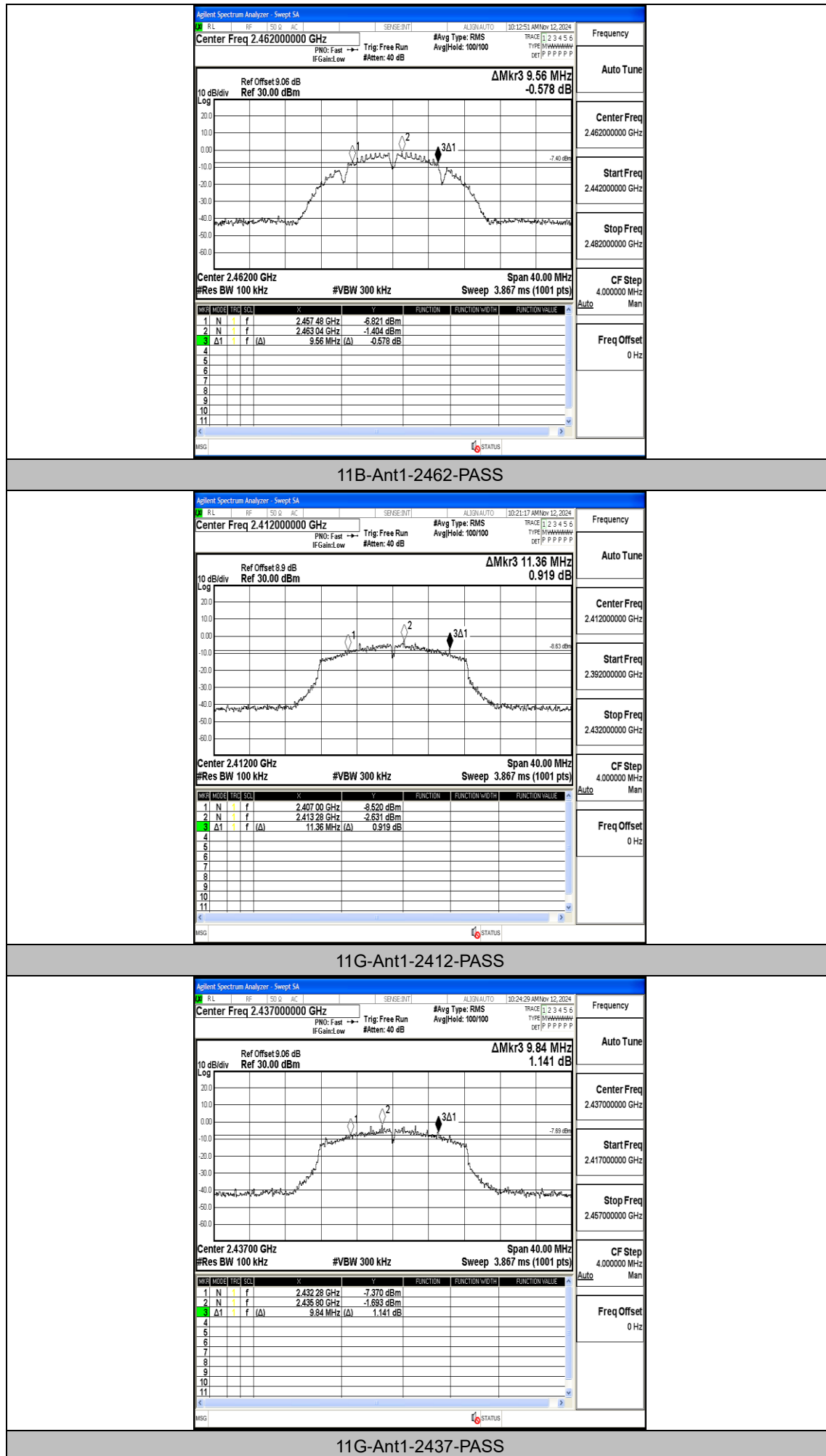
Appendix A: DTS Bandwidth

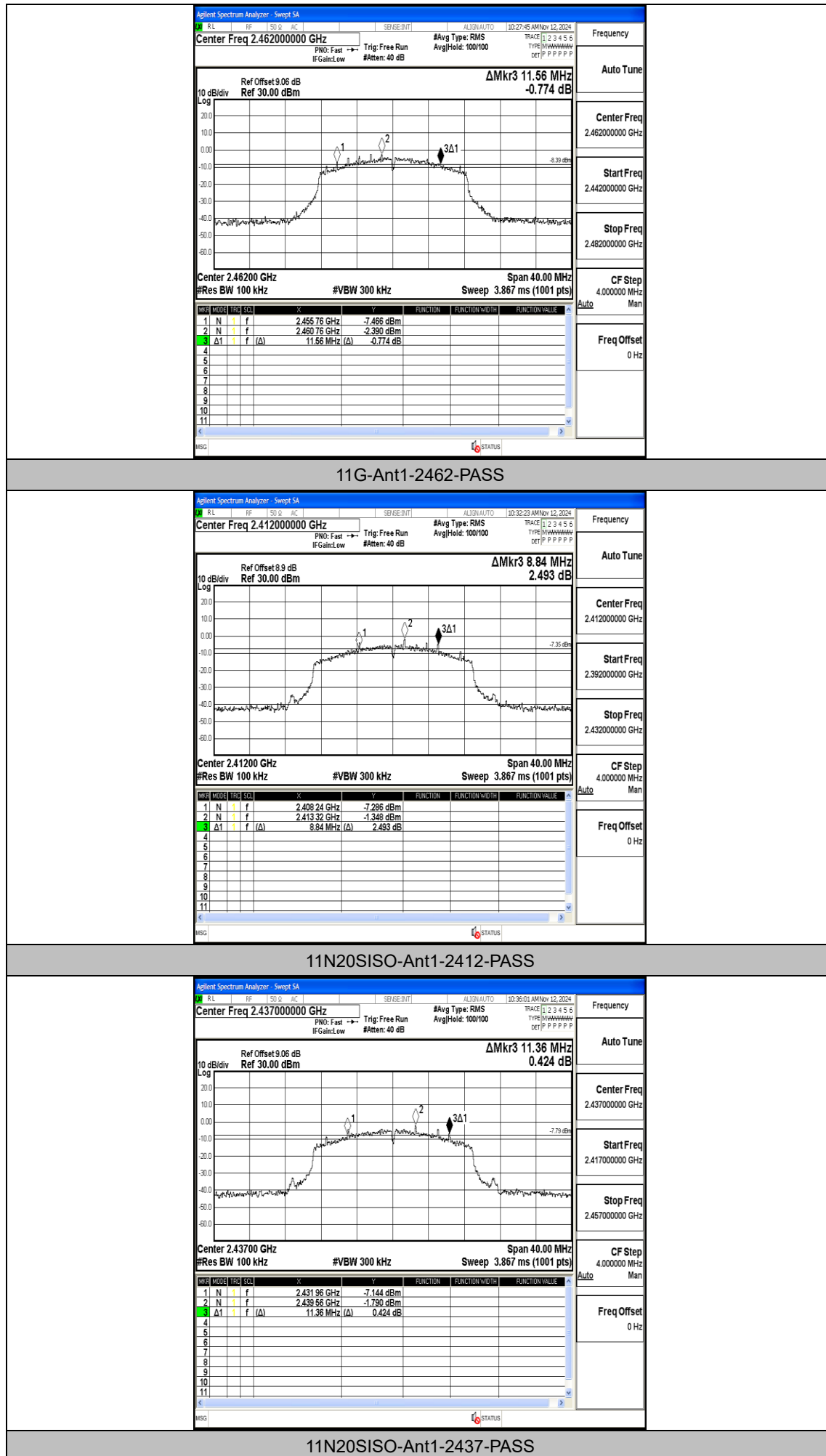
Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	9.040	2408.000	2417.040	0.5	PASS
11B	Ant1	2437	9.520	2432.040	2441.560	0.5	PASS
11B	Ant1	2462	9.560	2457.480	2467.040	0.5	PASS
11G	Ant1	2412	11.360	2407.000	2418.360	0.5	PASS
11G	Ant1	2437	9.840	2432.280	2442.120	0.5	PASS
11G	Ant1	2462	11.560	2455.760	2467.320	0.5	PASS
11N20SISO	Ant1	2412	8.840	2408.240	2417.080	0.5	PASS
11N20SISO	Ant1	2437	11.360	2431.960	2443.320	0.5	PASS
11N20SISO	Ant1	2462	8.840	2458.200	2467.040	0.5	PASS
11N40SISO	Ant1	2422	30.080	2407.040	2437.120	0.5	PASS
11N40SISO	Ant1	2437	33.760	2419.560	2453.320	0.5	PASS
11N40SISO	Ant1	2452	30.080	2434.560	2464.640	0.5	PASS

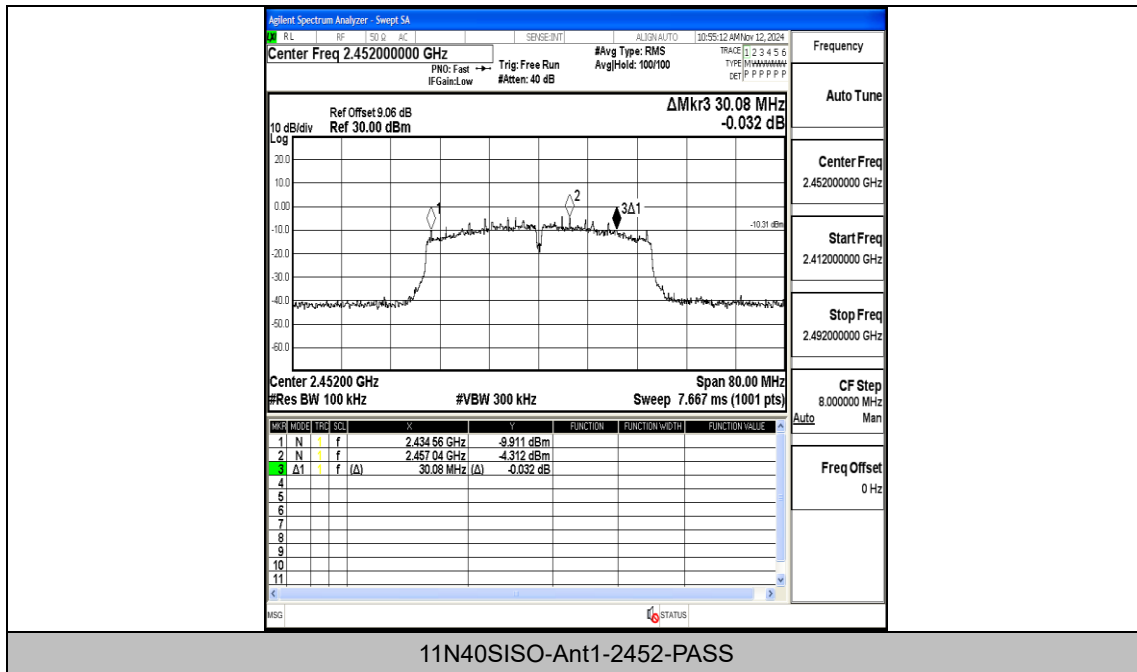
Test Graphs









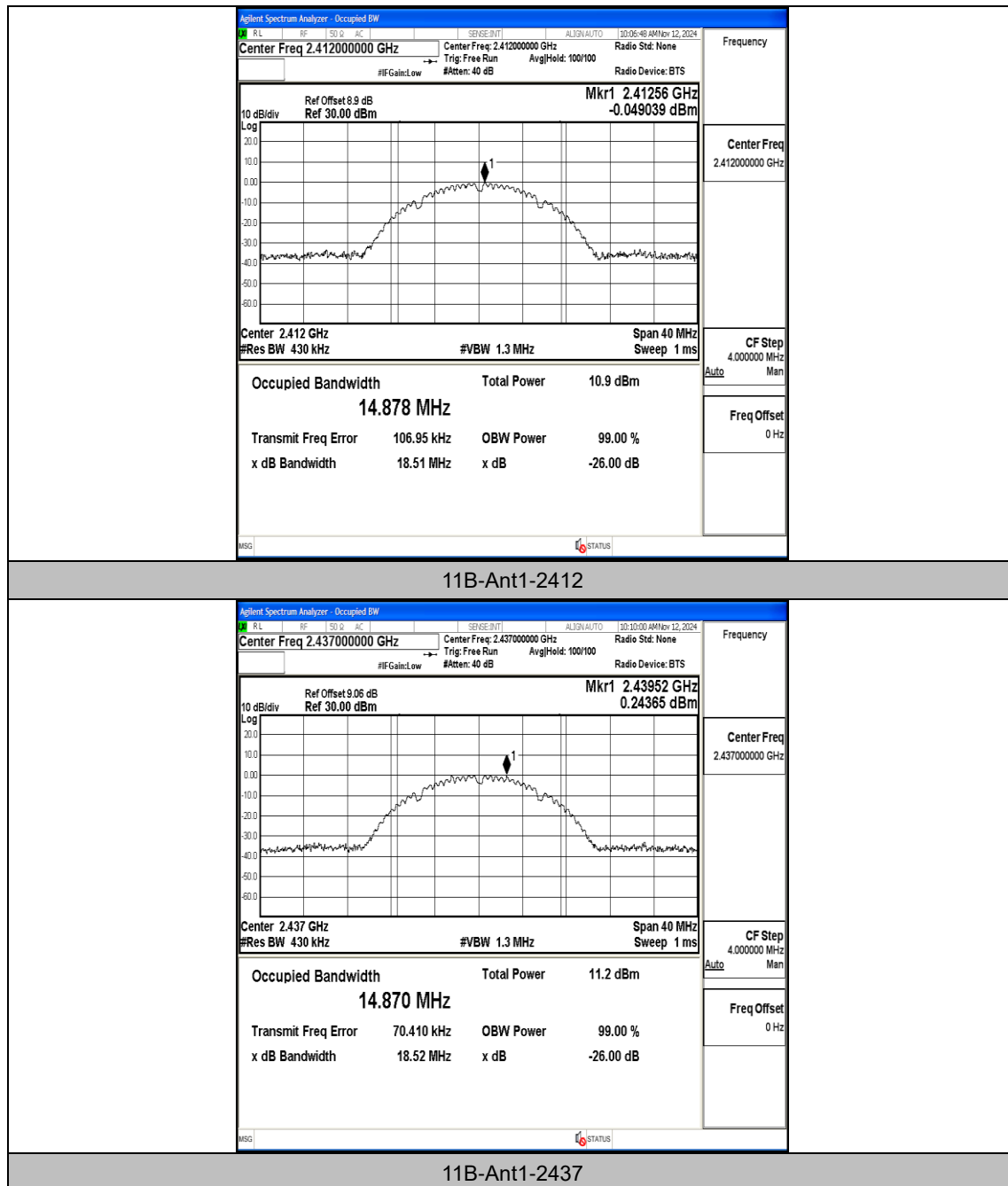


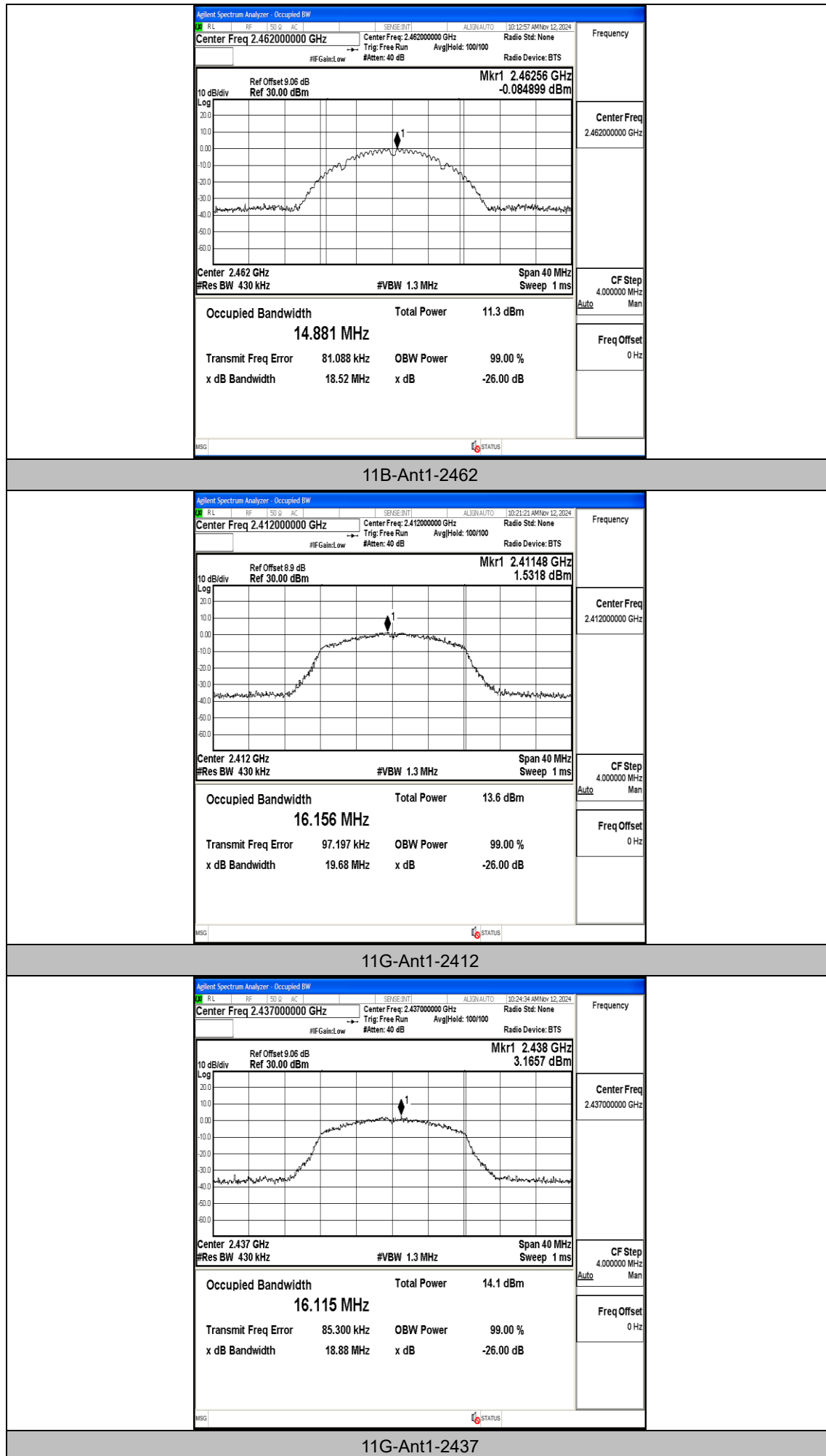
Appendix B: Occupied Channel Bandwidth

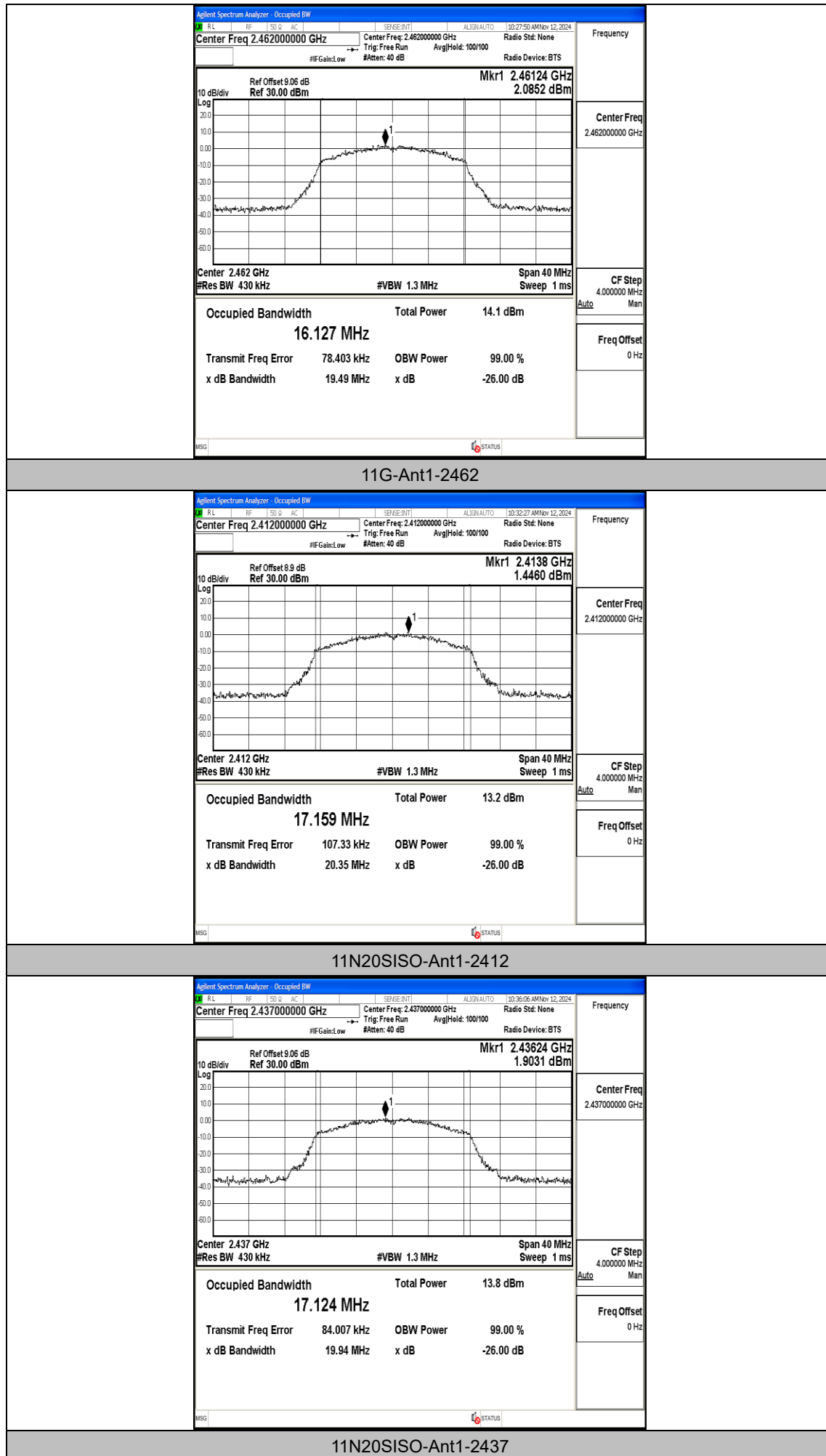
Test Result

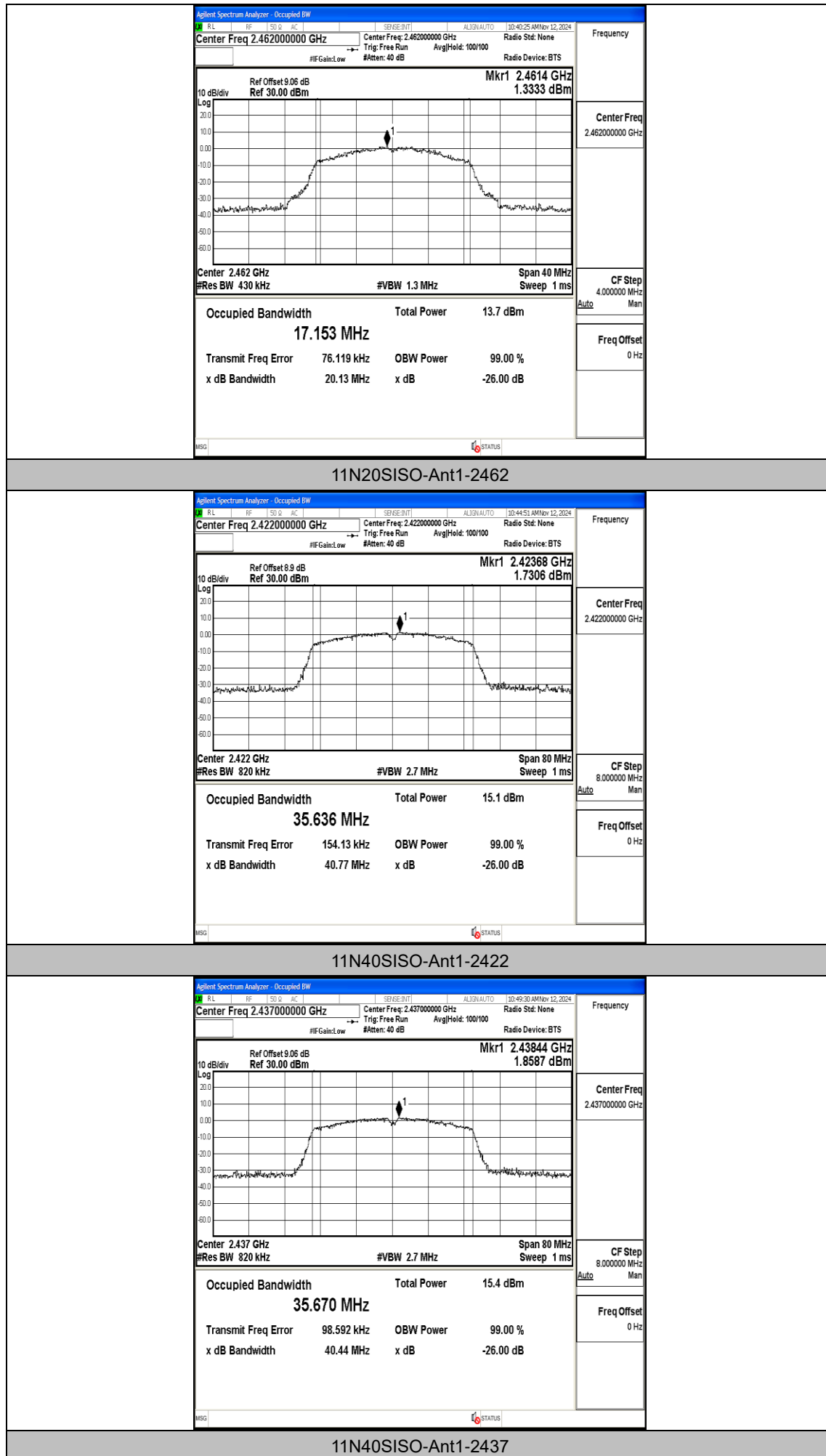
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	14.878	2404.6680	2419.5460	---	---
11B	Ant1	2437	14.870	2429.6354	2444.5054	---	---
11B	Ant1	2462	14.881	2454.6406	2469.5216	---	---
11G	Ant1	2412	16.156	2404.0192	2420.1752	---	---
11G	Ant1	2437	16.115	2429.0278	2445.1428	---	---
11G	Ant1	2462	16.127	2454.0149	2470.1419	---	---
11N20SISO	Ant1	2412	17.159	2403.5278	2420.6868	---	---
11N20SISO	Ant1	2437	17.124	2428.5220	2445.6460	---	---
11N20SISO	Ant1	2462	17.153	2453.4996	2470.6526	---	---
11N40SISO	Ant1	2422	35.636	2404.3361	2439.9721	---	---
11N40SISO	Ant1	2437	35.670	2419.2636	2454.9336	---	---
11N40SISO	Ant1	2452	35.649	2434.2764	2469.9254	---	---

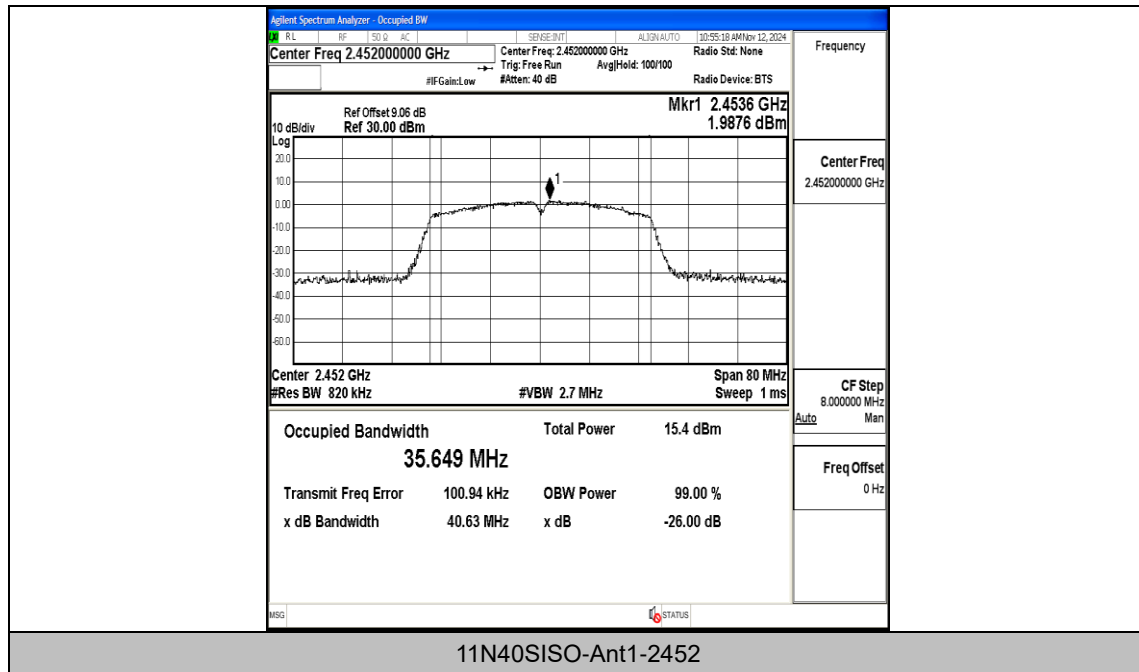
Test Graphs











Appendix C: Maximum Average conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	7.92	≤30.00	PASS
11B	Ant1	2437	8.16	≤30.00	PASS
11B	Ant1	2462	8.21	≤30.00	PASS
11G	Ant1	2412	7.47	≤30.00	PASS
11G	Ant1	2437	8.01	≤30.00	PASS
11G	Ant1	2462	7.95	≤30.00	PASS
11N20SISO	Ant1	2412	7.18	≤30.00	PASS
11N20SISO	Ant1	2437	7.80	≤30.00	PASS
11N20SISO	Ant1	2462	9.49	≤30.00	PASS
11N40SISO	Ant1	2422	8.10	≤30.00	PASS
11N40SISO	Ant1	2437	8.48	≤30.00	PASS
11N40SISO	Ant1	2452	8.42	≤30.00	PASS

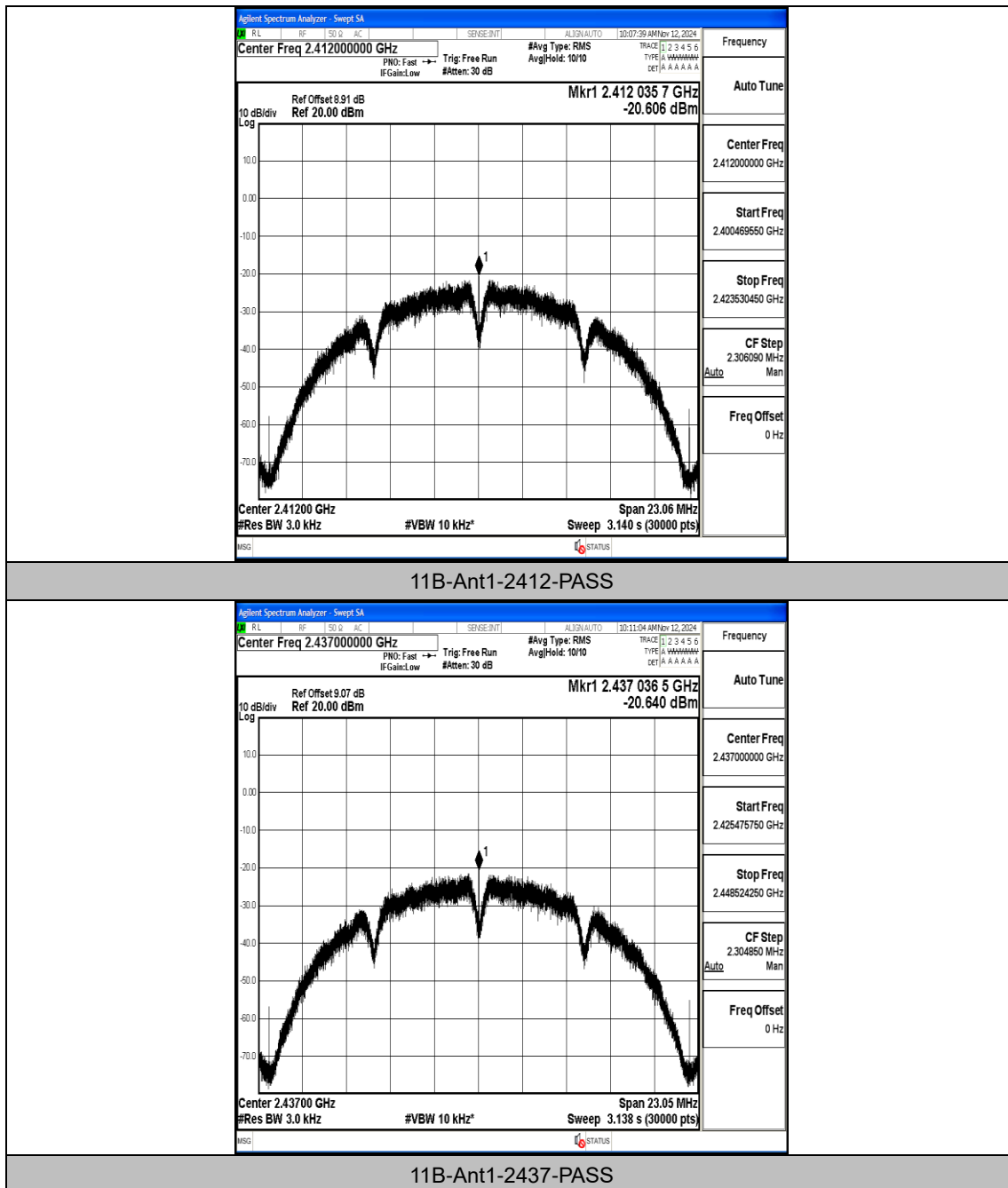
Note: The Duty Cycle Factor is compensated in the result.

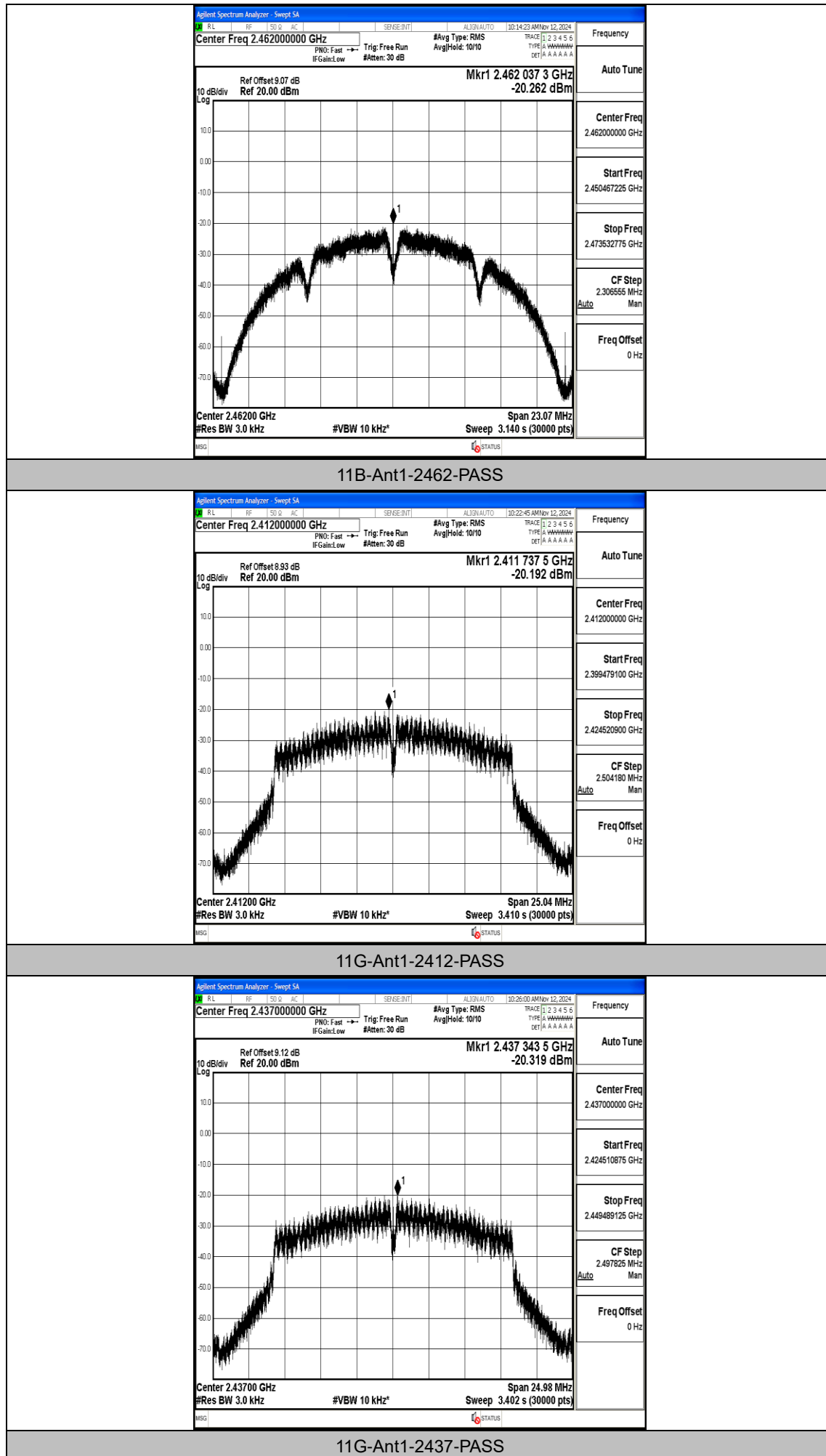
Appendix D: Maximum Average power spectral density

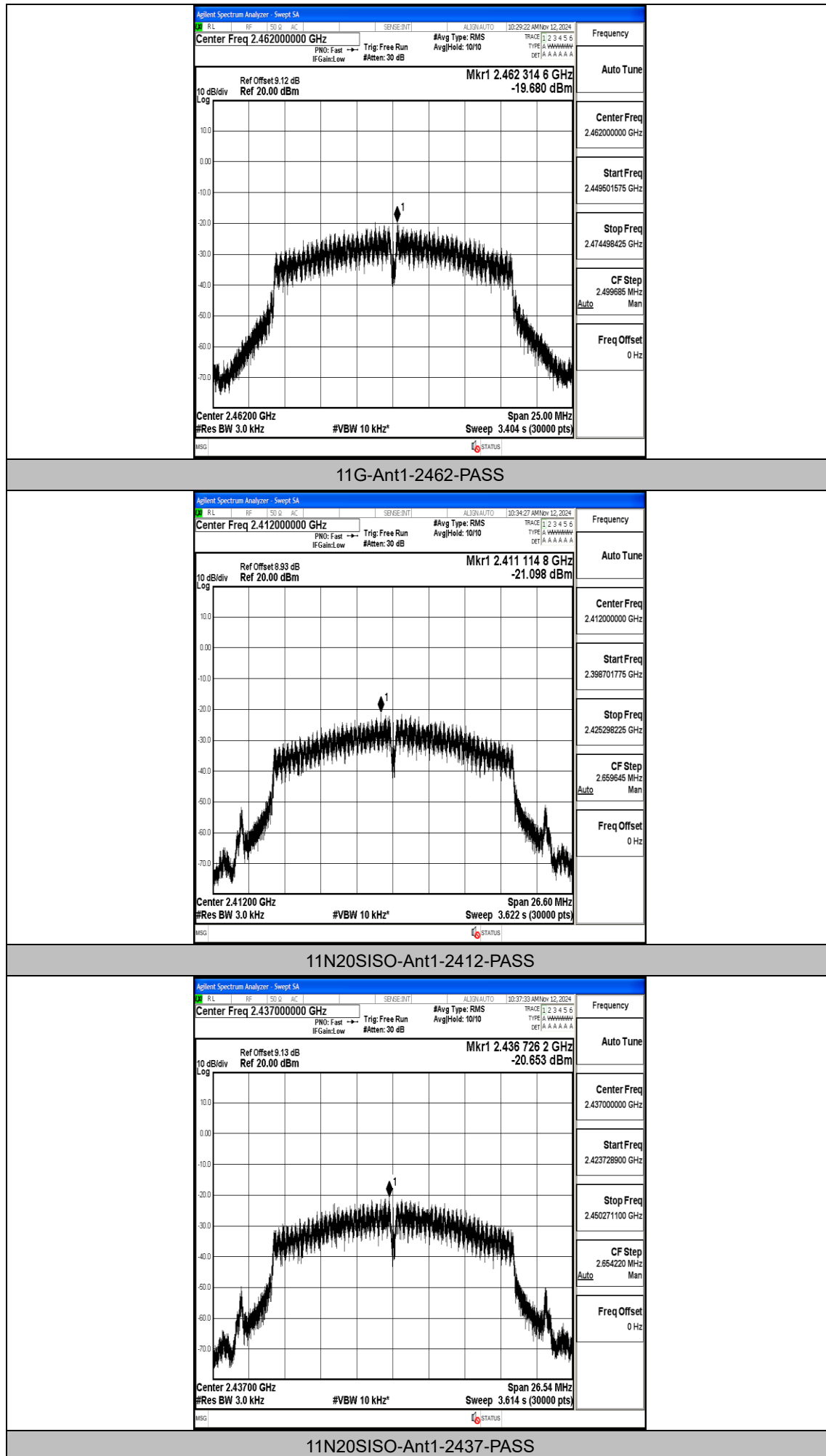
Test Result

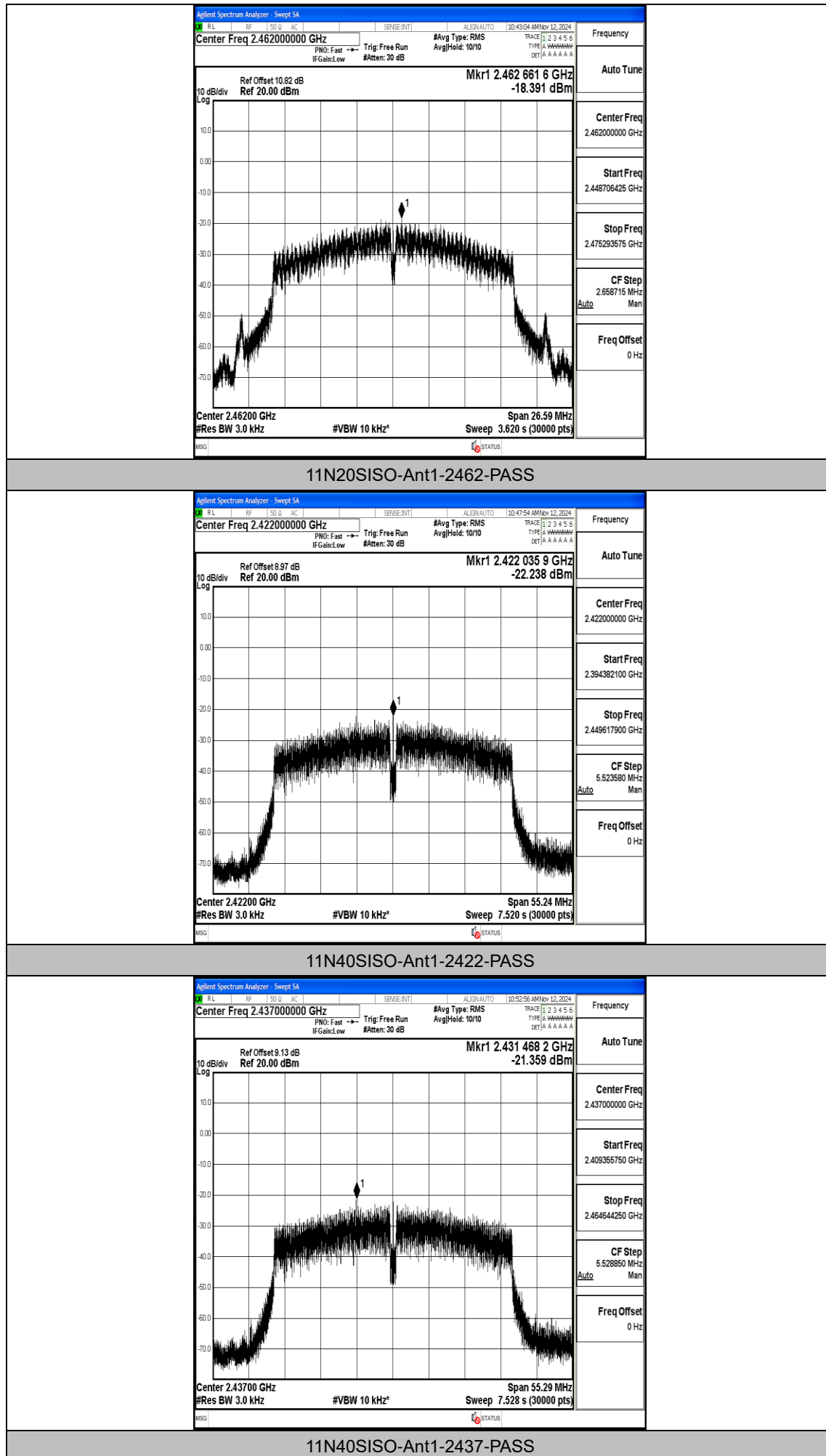
Test Mode	Antenna	Frequency [MHz]	Raw. Data [dBm/3-100kHz]	Dc. Factor	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-20.62	0.01	-20.61	≤8.00	PASS
11B	Ant1	2437	-20.65	0.01	-20.64	≤8.00	PASS
11B	Ant1	2462	-20.27	0.01	-20.26	≤8.00	PASS
11G	Ant1	2412	-20.22	0.03	-20.19	≤8.00	PASS
11G	Ant1	2437	-20.38	0.06	-20.32	≤8.00	PASS
11G	Ant1	2462	-19.74	0.06	-19.68	≤8.00	PASS
11N20SI SO	Ant1	2412	-21.13	0.03	-21.10	≤8.00	PASS
11N20SI SO	Ant1	2437	-18.46	0.07	-18.39	≤8.00	PASS
11N20SI SO	Ant1	2462	-20.15	0.07	-20.08	≤8.00	PASS
11N40SI SO	Ant1	2422	-22.31	0.07	-22.24	≤8.00	PASS
11N40SI SO	Ant1	2437	-21.43	0.07	-21.36	≤8.00	PASS
11N40SI SO	Ant1	2452	-22.01	0.07	-21.94	≤8.00	PASS

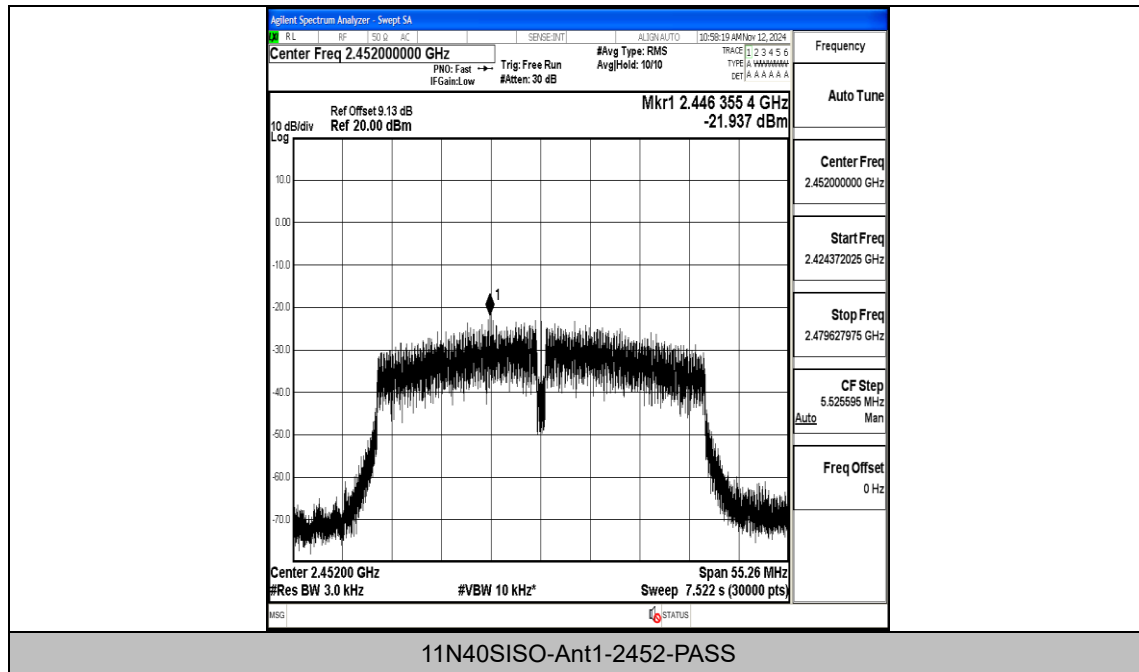
Test Graphs









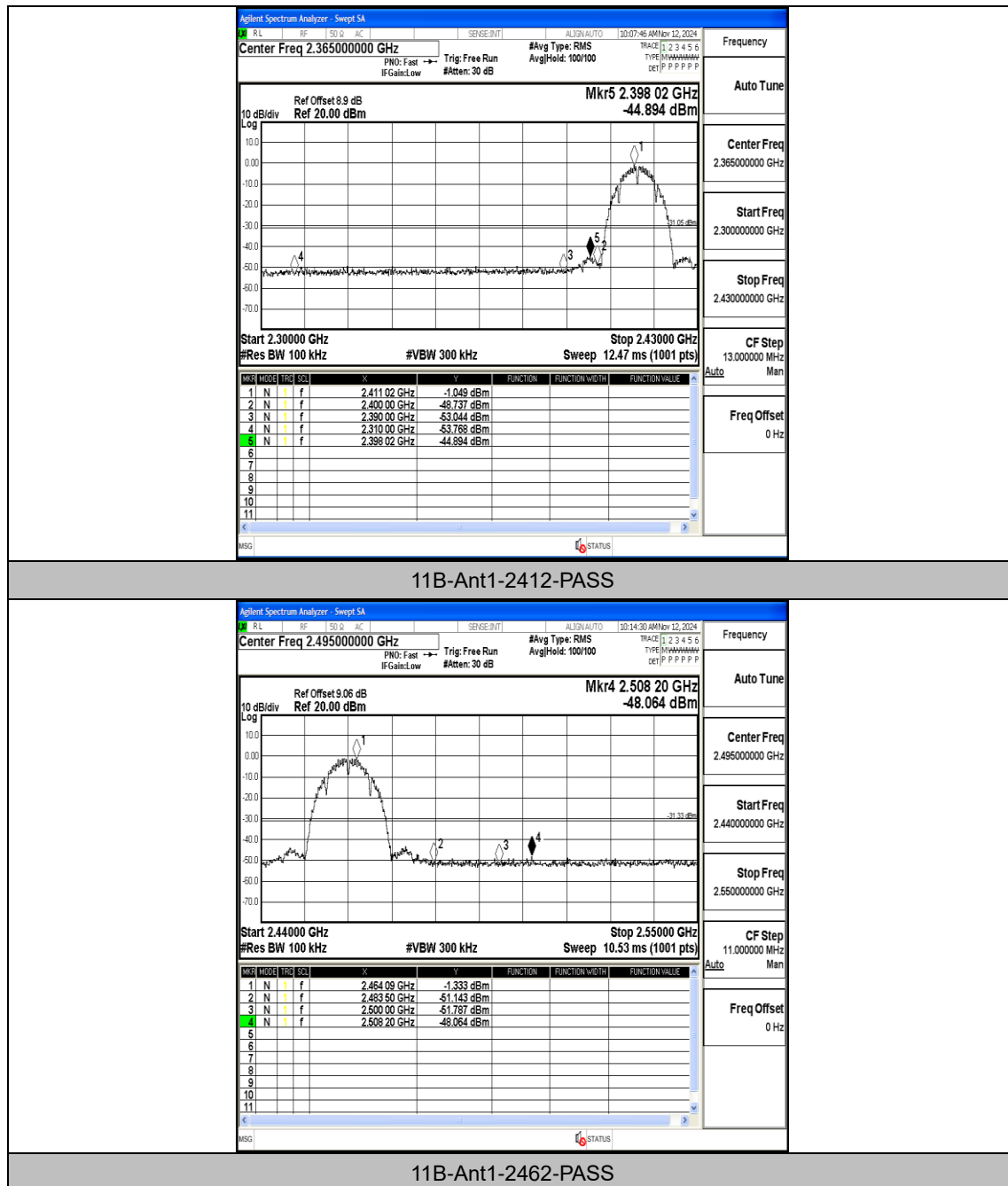


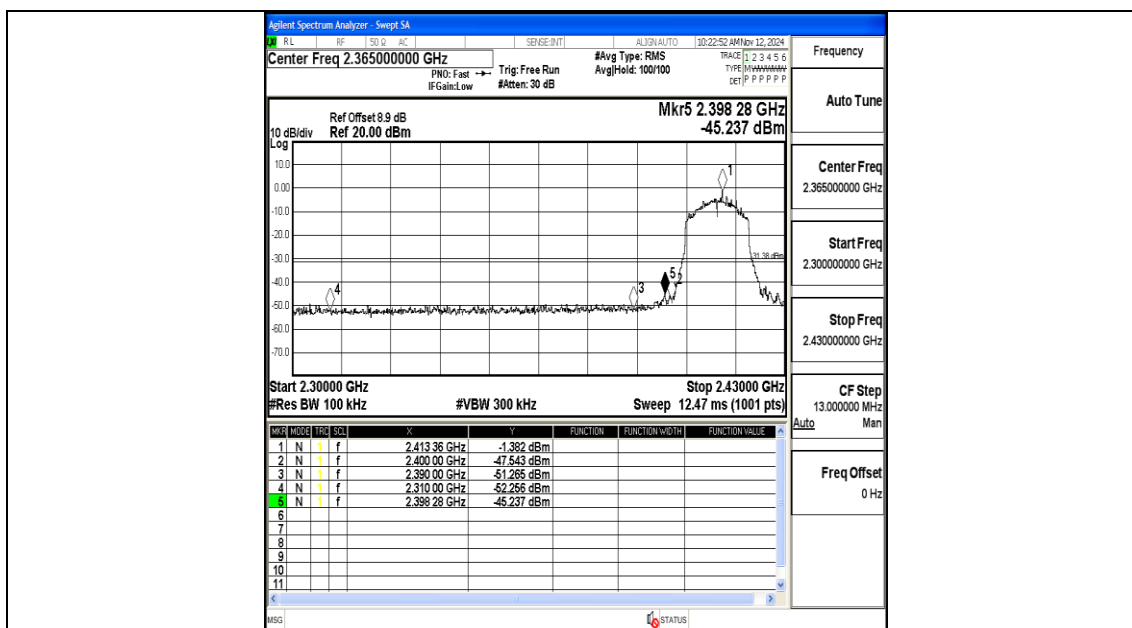
Appendix E: Band edge measurements

Test Result

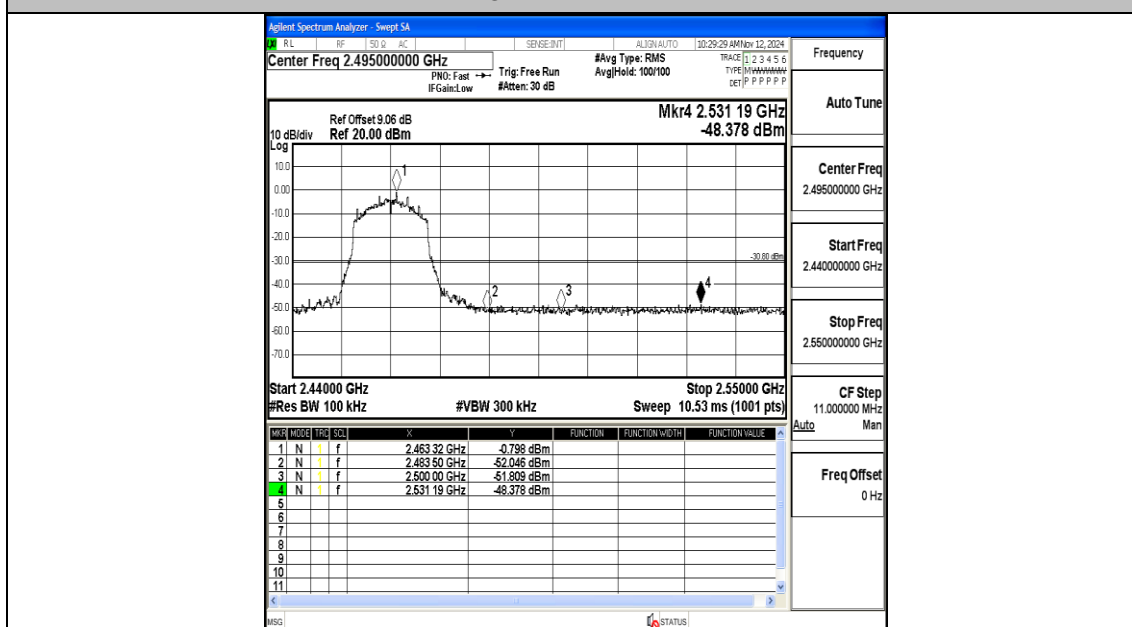
Test Mode	Antenna	Ch. Name	Frequency. [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	-1.05	-44.89	≤ -31.05	PASS
11B	Ant1	High	2462	-1.33	-48.06	≤ -31.33	PASS
11G	Ant1	Low	2412	-1.38	-45.24	≤ -31.38	PASS
11G	Ant1	High	2462	-0.80	-48.38	≤ -30.8	PASS
11N20SI SO	Ant1	Low	2412	-1.83	-44.61	≤ -31.83	PASS
11N20SI SO	Ant1	High	2462	-1.49	-48.37	≤ -31.49	PASS
11N40SI SO	Ant1	Low	2422	-4.44	-43.97	≤ -34.44	PASS
11N40SI SO	Ant1	High	2452	-4.21	-43	≤ -34.21	PASS

Test Graphs

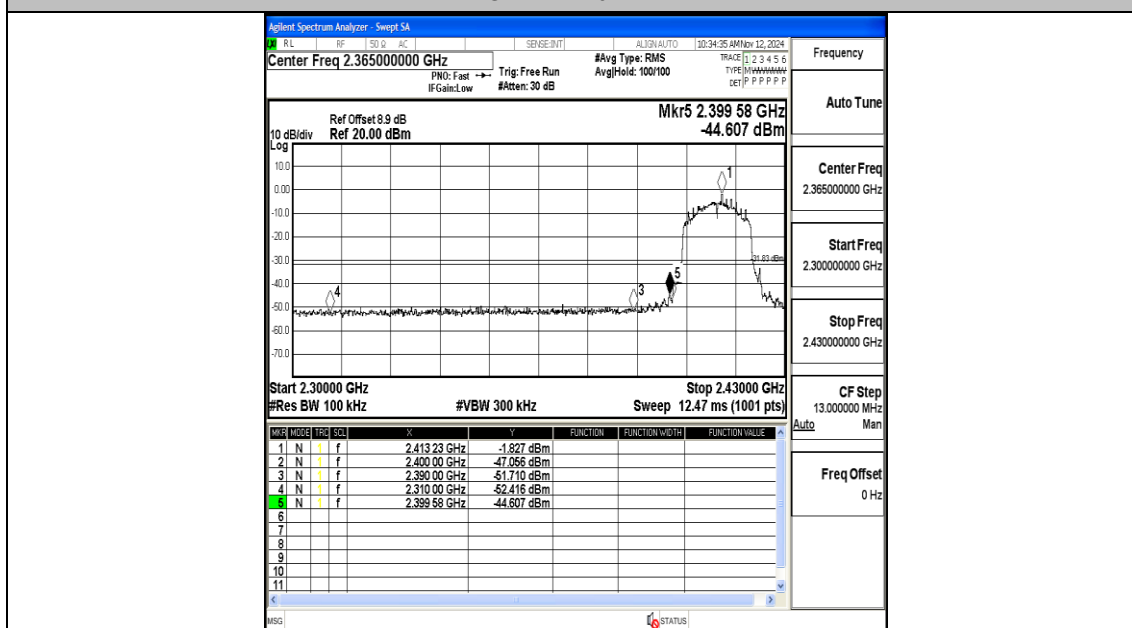




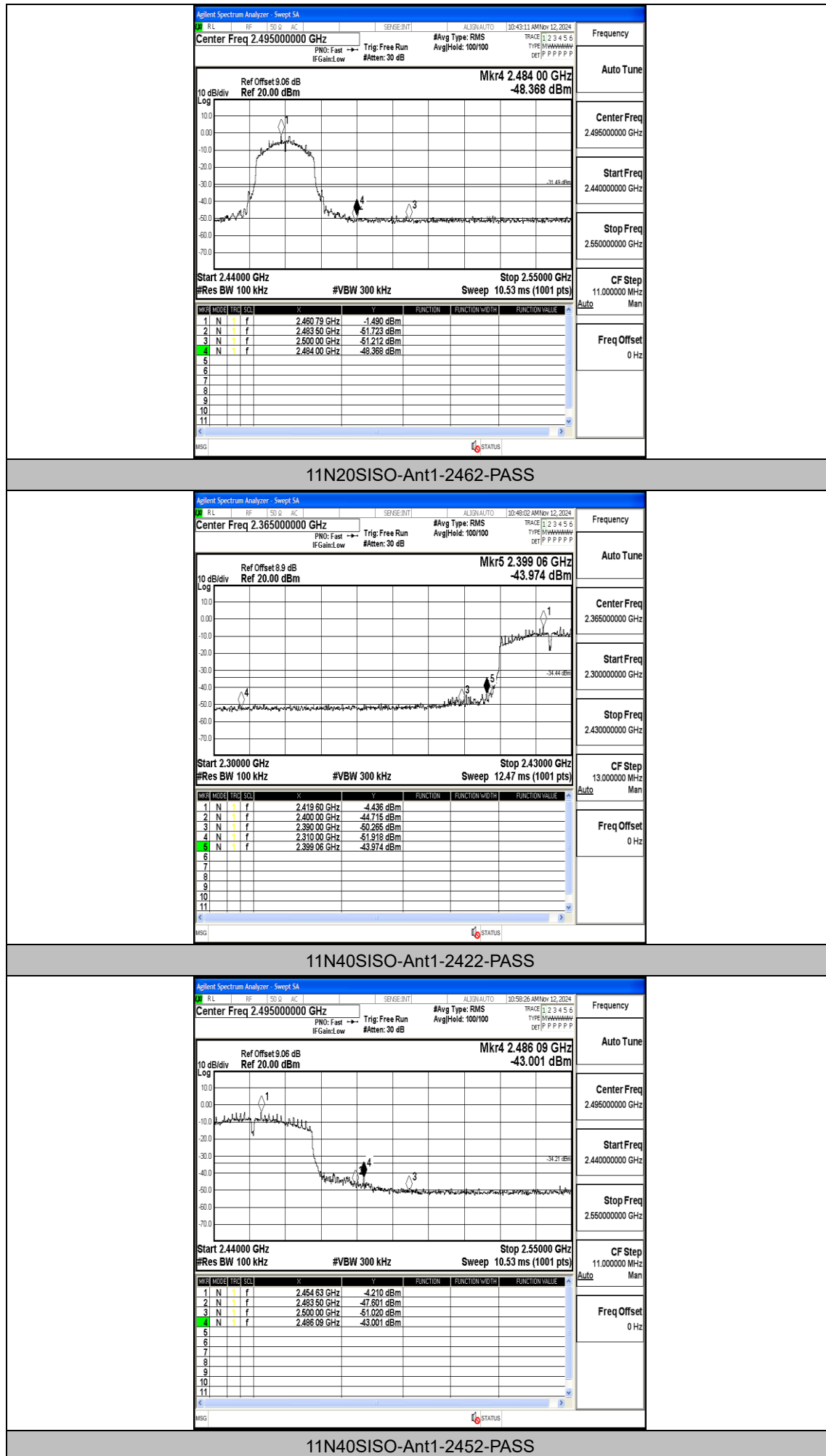
11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

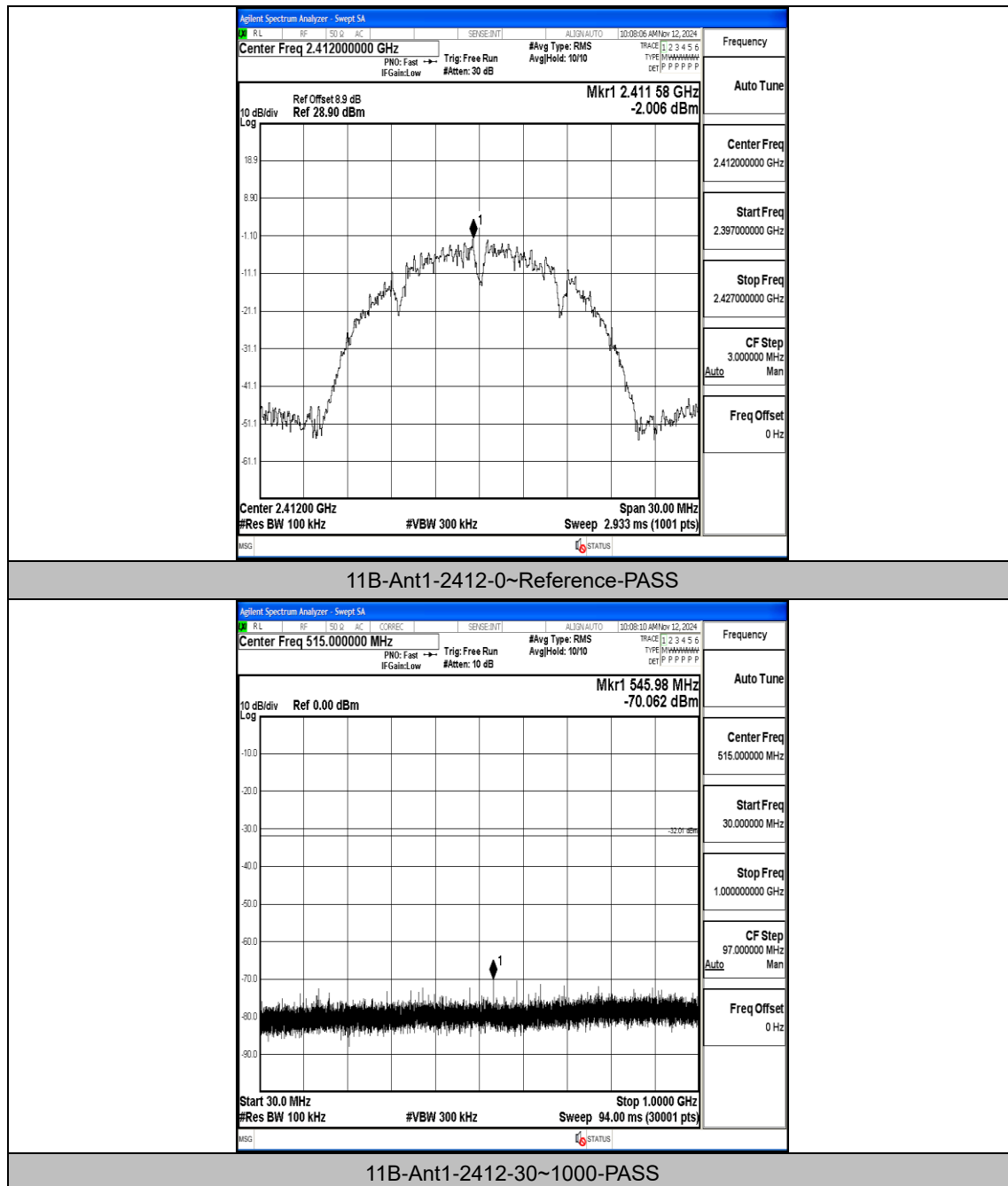


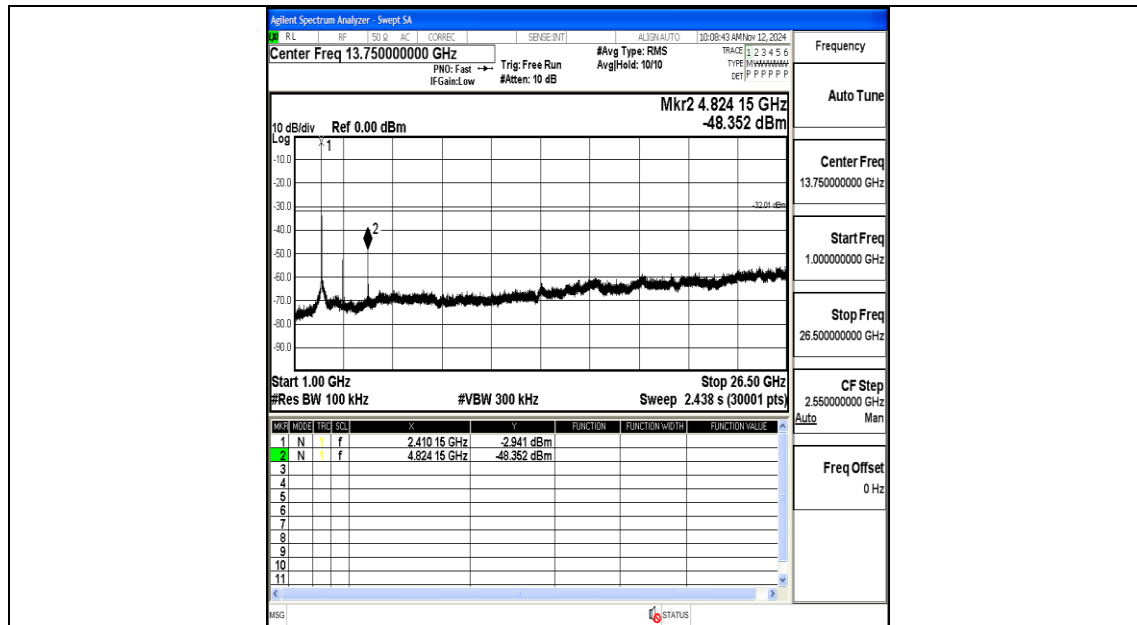
Appendix F: Conducted Spurious Emission

Test Result

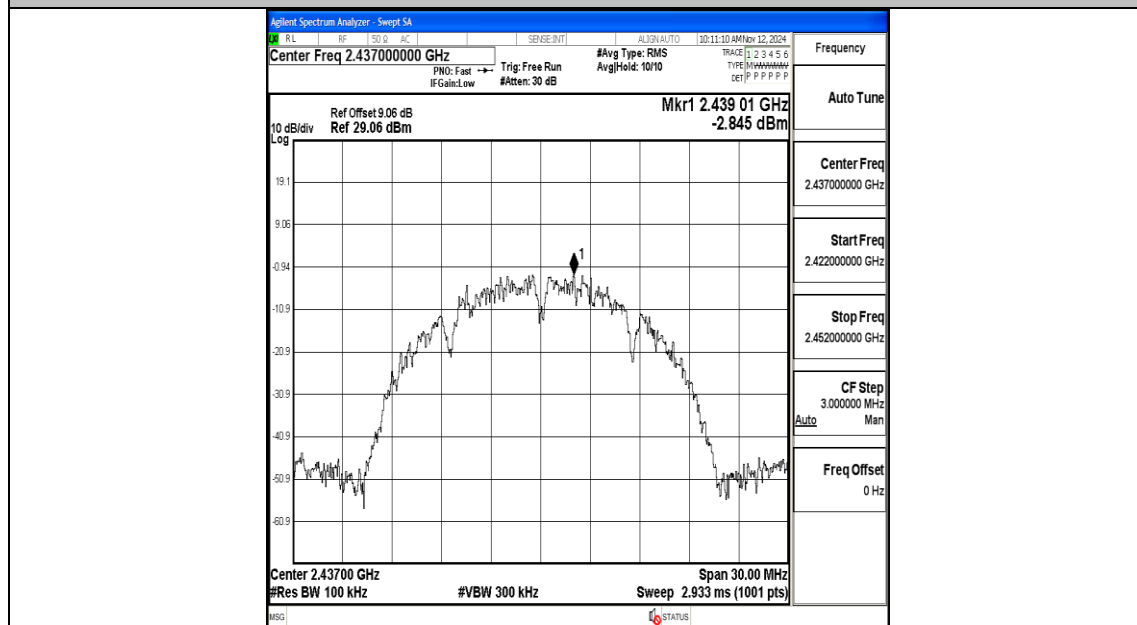
Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-2.01	-2.01	---	PASS
11B	Ant1	2412	30~1000	-2.01	-70.06	≤-32.01	PASS
11B	Ant1	2412	1000~26500	-2.01	-48.35	≤-32.01	PASS
11B	Ant1	2437	0~Reference	-2.85	-2.85	---	PASS
11B	Ant1	2437	30~1000	-2.85	-70.77	≤-32.85	PASS
11B	Ant1	2437	1000~26500	-2.85	-48.72	≤-32.85	PASS
11B	Ant1	2462	0~Reference	-0.96	-0.96	---	PASS
11B	Ant1	2462	30~1000	-0.96	-69.11	≤-30.96	PASS
11B	Ant1	2462	1000~26500	-0.96	-39.08	≤-30.96	PASS
11G	Ant1	2412	0~Reference	-5.16	-5.16	---	PASS
11G	Ant1	2412	30~1000	-5.16	-68.45	≤-35.16	PASS
11G	Ant1	2412	1000~26500	-5.16	-55.47	≤-35.16	PASS
11G	Ant1	2437	0~Reference	-4.49	-4.49	---	PASS
11G	Ant1	2437	30~1000	-4.49	-67.77	≤-34.49	PASS
11G	Ant1	2437	1000~26500	-4.49	-53.47	≤-34.49	PASS
11G	Ant1	2462	0~Reference	-4.39	-4.39	---	PASS
11G	Ant1	2462	30~1000	-4.39	-68.75	≤-34.39	PASS
11G	Ant1	2462	1000~26500	-4.39	-54.88	≤-34.39	PASS
11N20SISO	Ant1	2412	0~Reference	-5.20	-5.20	---	PASS
11N20SISO	Ant1	2412	30~1000	-5.20	-68.47	≤-35.2	PASS
11N20SISO	Ant1	2412	1000~26500	-5.20	-55.12	≤-35.2	PASS
11N20SISO	Ant1	2437	0~Reference	-3.70	-3.70	---	PASS
11N20SISO	Ant1	2437	30~1000	-3.70	-68.73	≤-33.7	PASS
11N20SISO	Ant1	2437	1000~26500	-3.70	-55.23	≤-33.7	PASS
11N20SISO	Ant1	2462	0~Reference	-4.58	-4.58	---	PASS
11N20SISO	Ant1	2462	30~1000	-4.58	-68.48	≤-34.58	PASS
11N20SISO	Ant1	2462	1000~26500	-4.58	-55.4	≤-34.58	PASS
11N40SISO	Ant1	2422	0~Reference	-5.13	-5.13	---	PASS
11N40SISO	Ant1	2422	30~1000	-5.13	-64.69	≤-35.13	PASS
11N40SISO	Ant1	2422	1000~26500	-5.13	-55.48	≤-35.13	PASS
11N40SISO	Ant1	2437	0~Reference	-6.88	-6.88	---	PASS
11N40SISO	Ant1	2437	30~1000	-6.88	-64.15	≤-36.88	PASS
11N40SISO	Ant1	2437	1000~26500	-6.88	-54.95	≤-36.88	PASS
11N40SISO	Ant1	2452	0~Reference	-6.44	-6.44	---	PASS
11N40SISO	Ant1	2452	30~1000	-6.44	-63.58	≤-36.44	PASS
11N40SISO	Ant1	2452	1000~26500	-6.44	-55.06	≤-36.44	PASS

Test Graphs

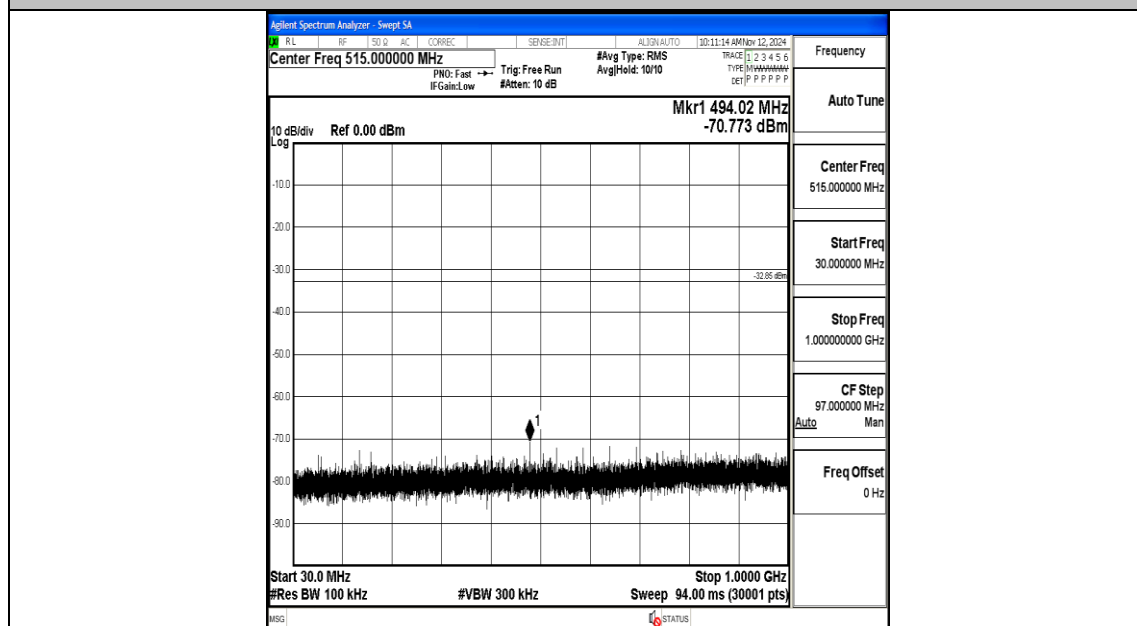




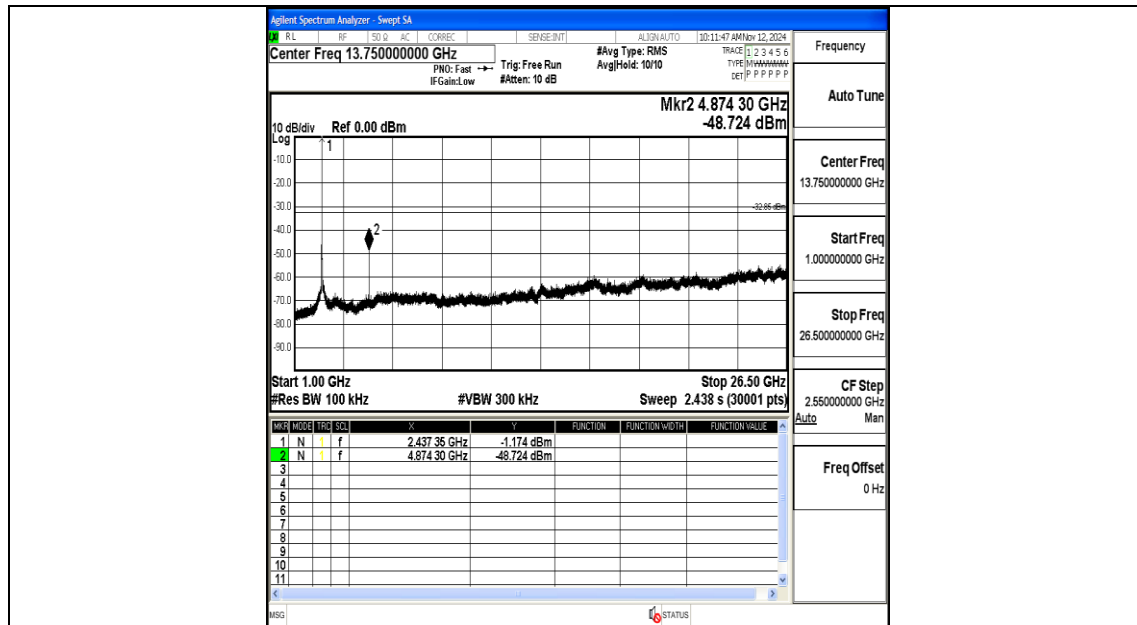
11B-Ant1-2412-1000~26500-PASS



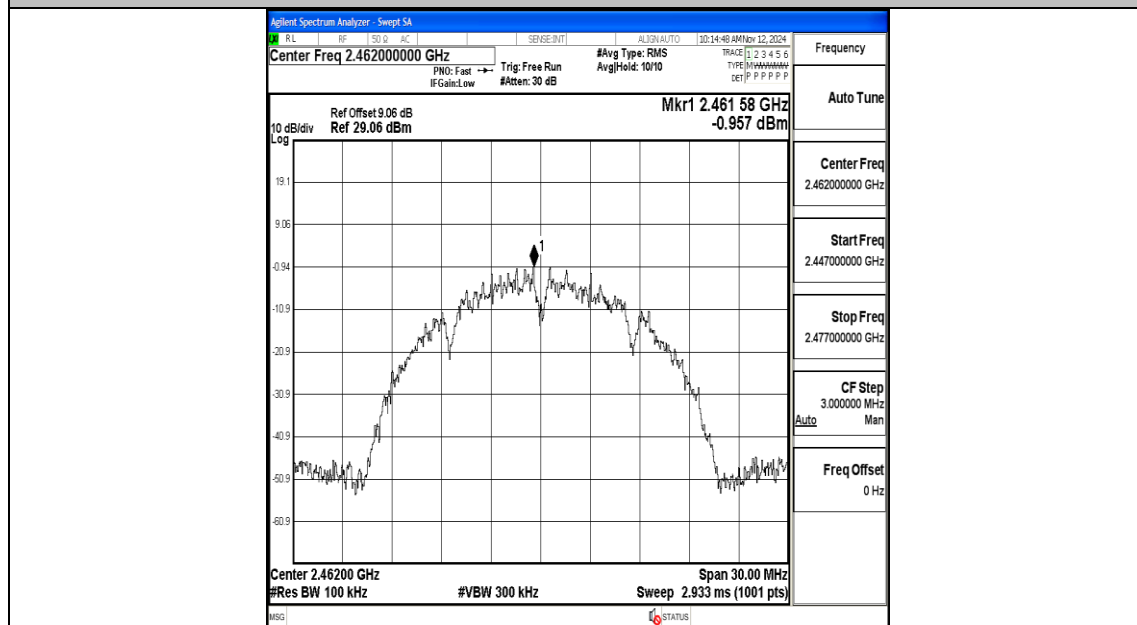
11B-Ant1-2437-0~Reference-PASS



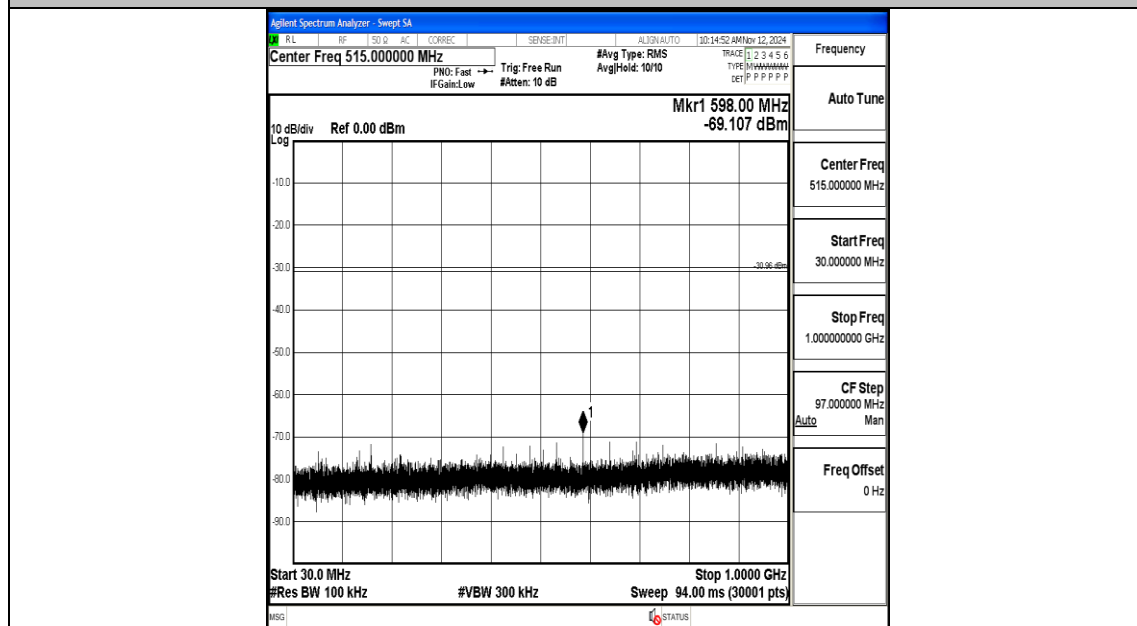
11B-Ant1-2437-30~1000-PASS



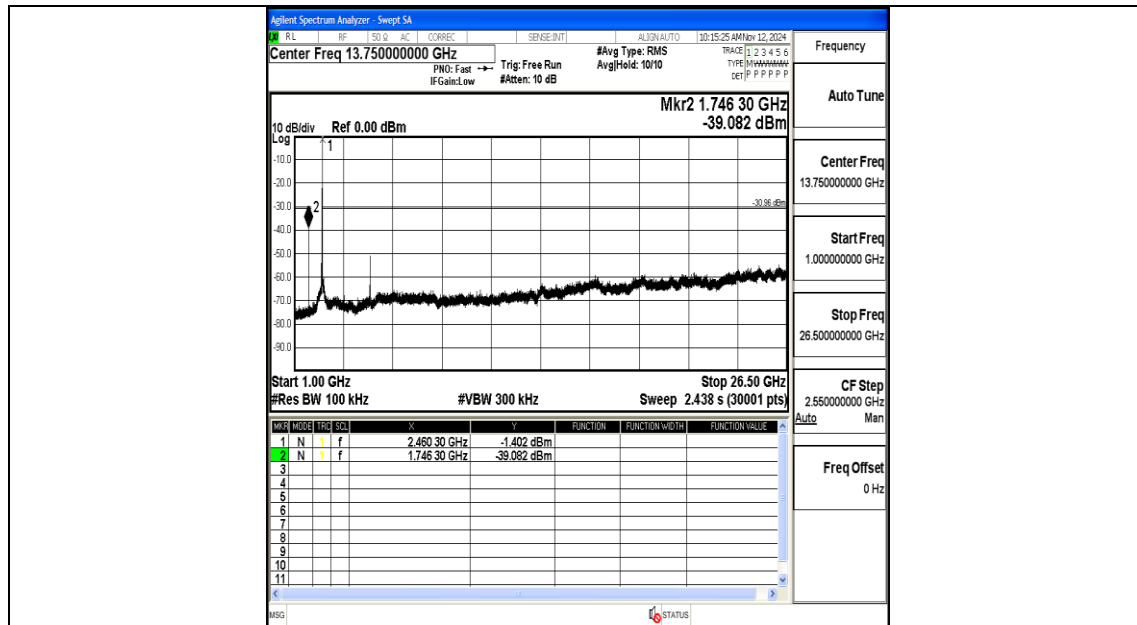
11B-Ant1-2437-1000~26500-PASS



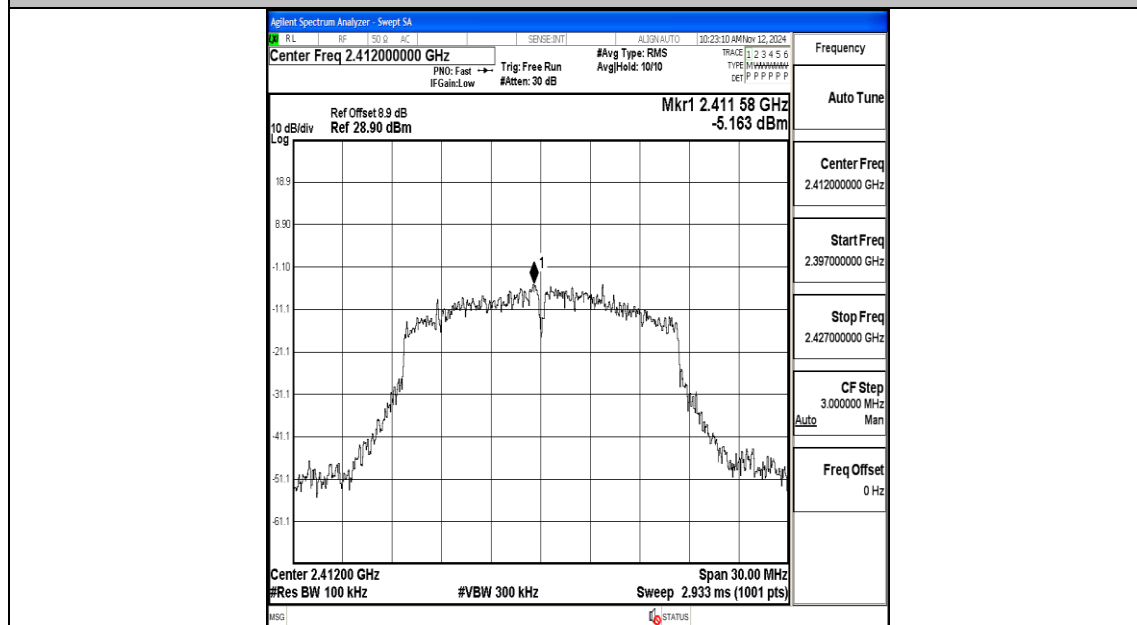
11B-Ant1-2462-0~Reference-PASS



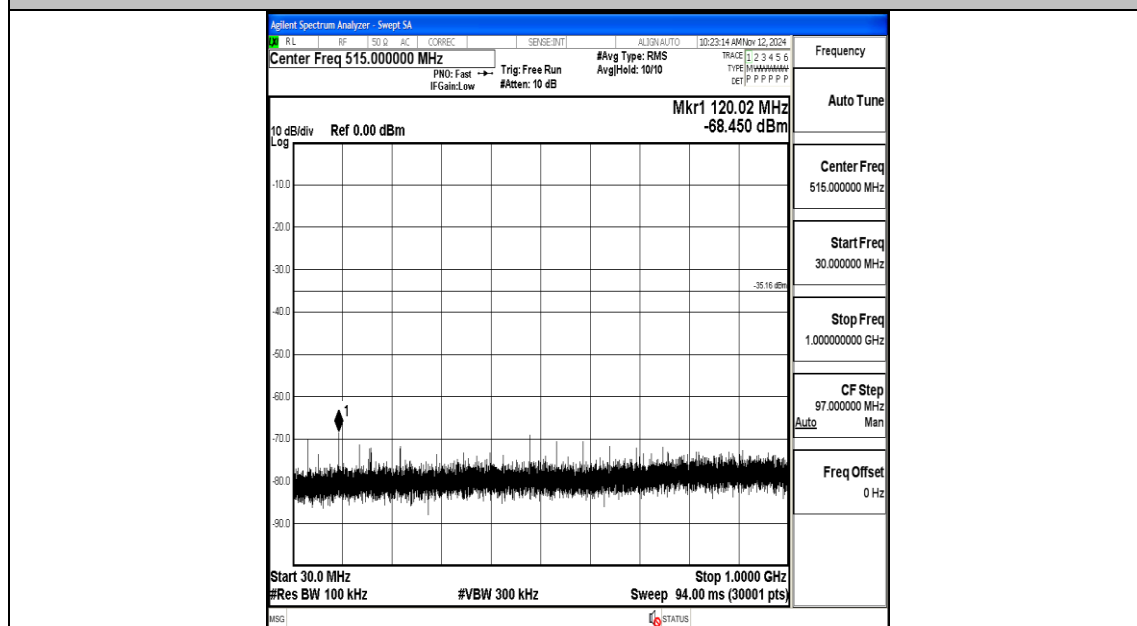
11B-Ant1-2462-30~1000-PASS



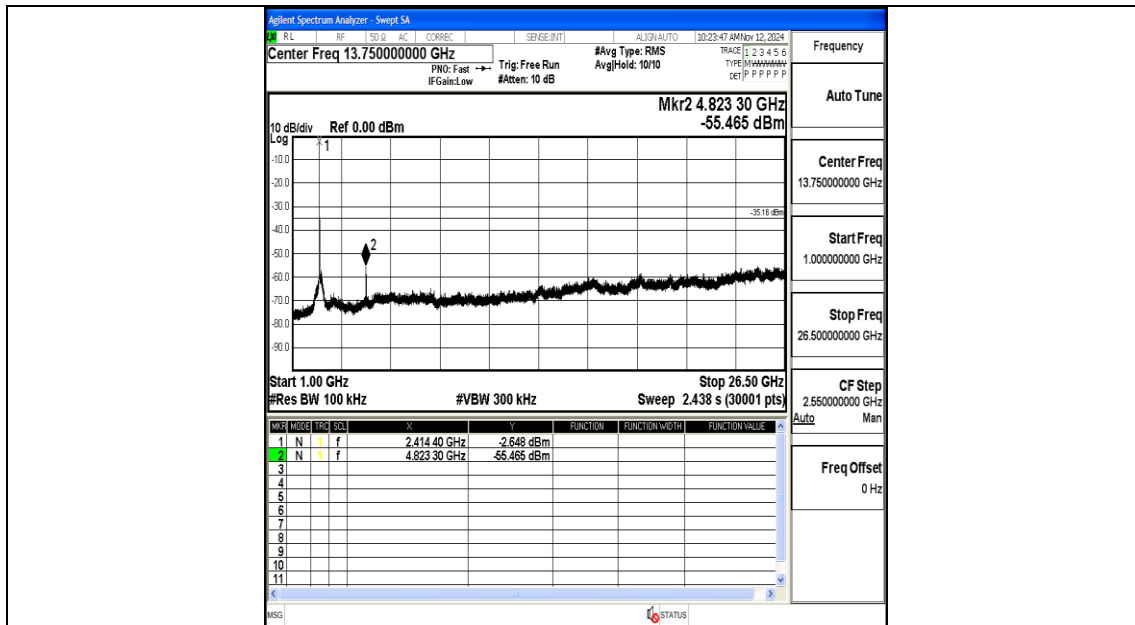
11B-Ant1-2462-1000~26500-PASS



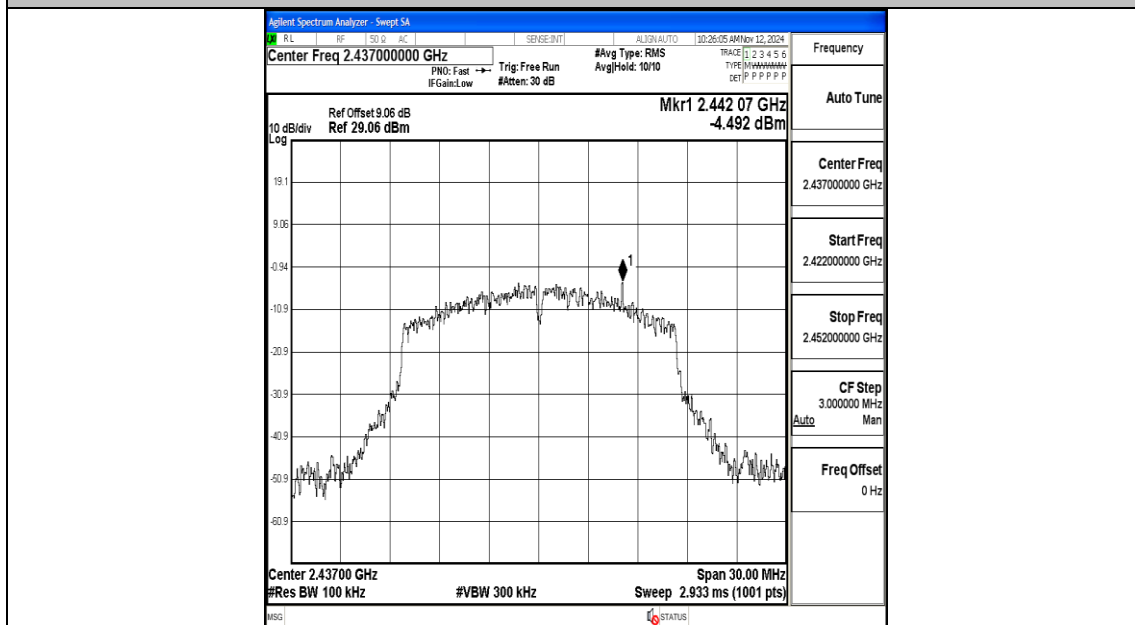
11G-Ant1-2412-0~Reference-PASS



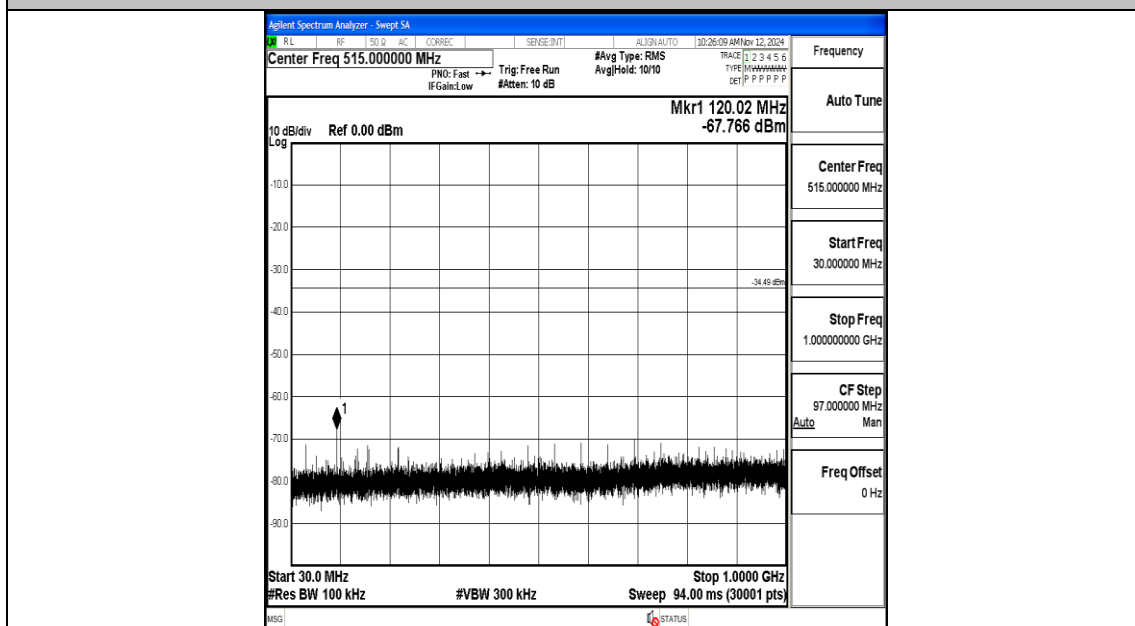
11G-Ant1-2412-30~1000-PASS



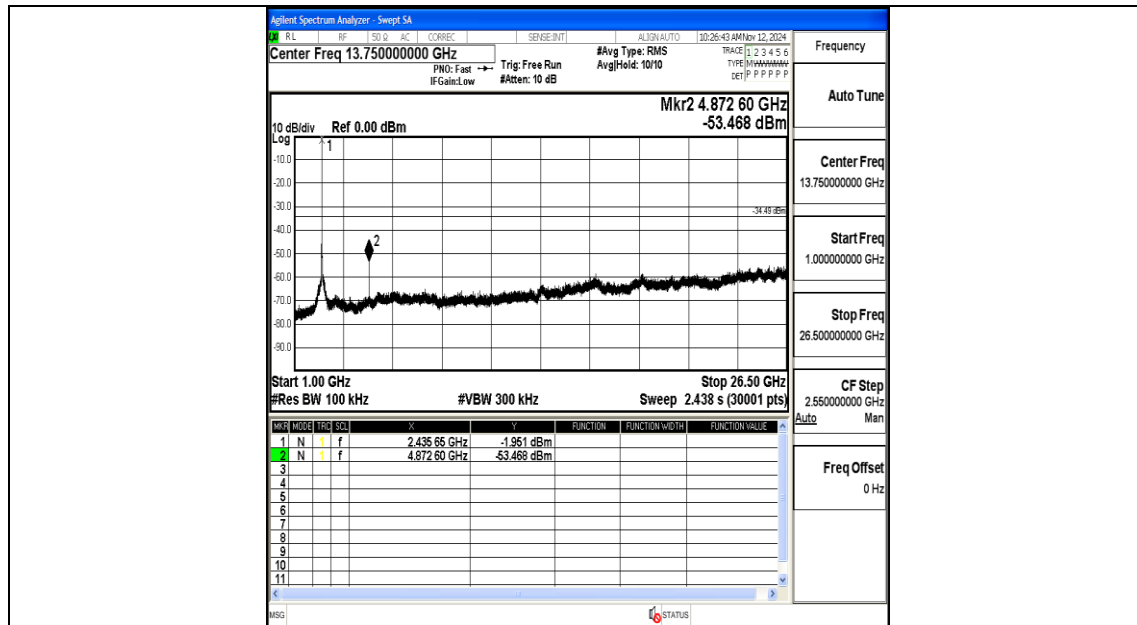
11G-Ant1-2412-1000~26500-PASS



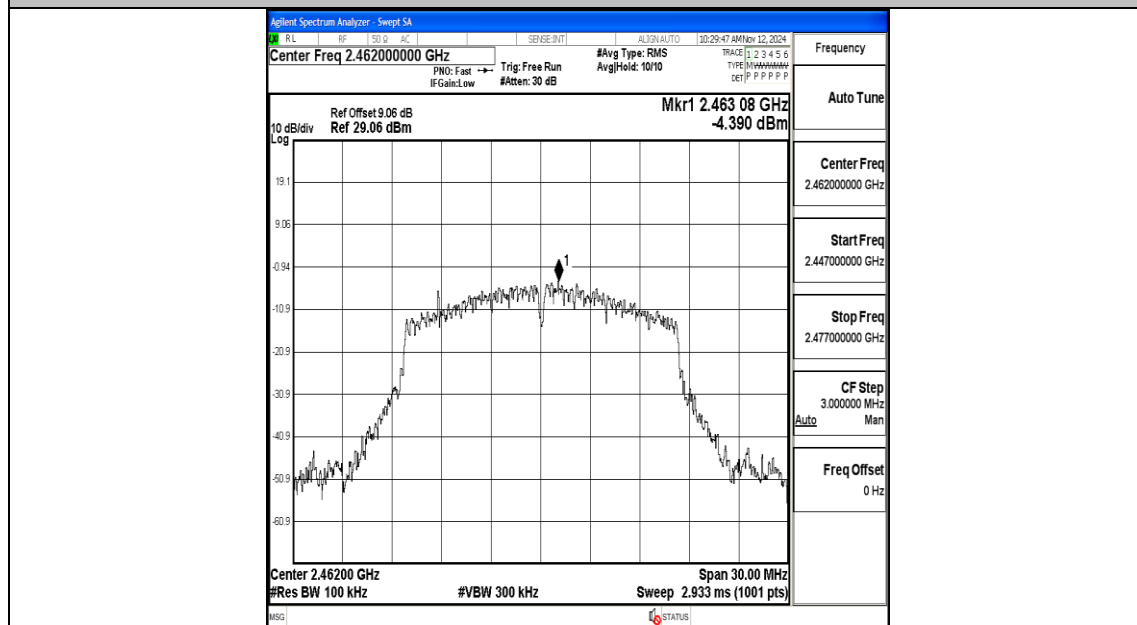
11G-Ant1-2437-0~Reference-PASS



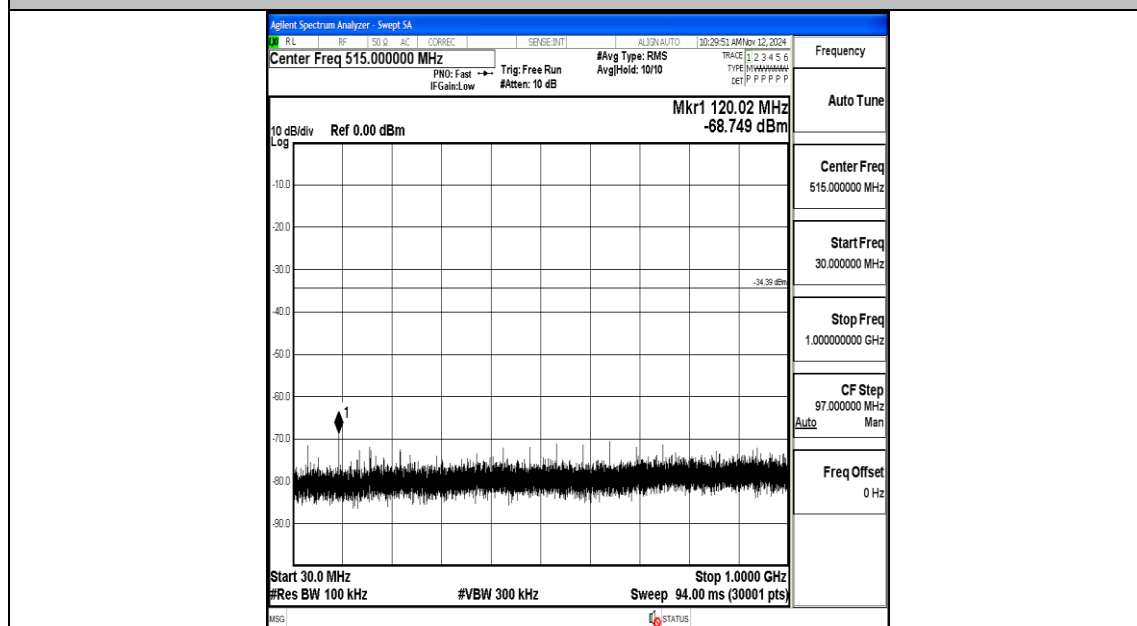
11G-Ant1-2437-30~1000-PASS



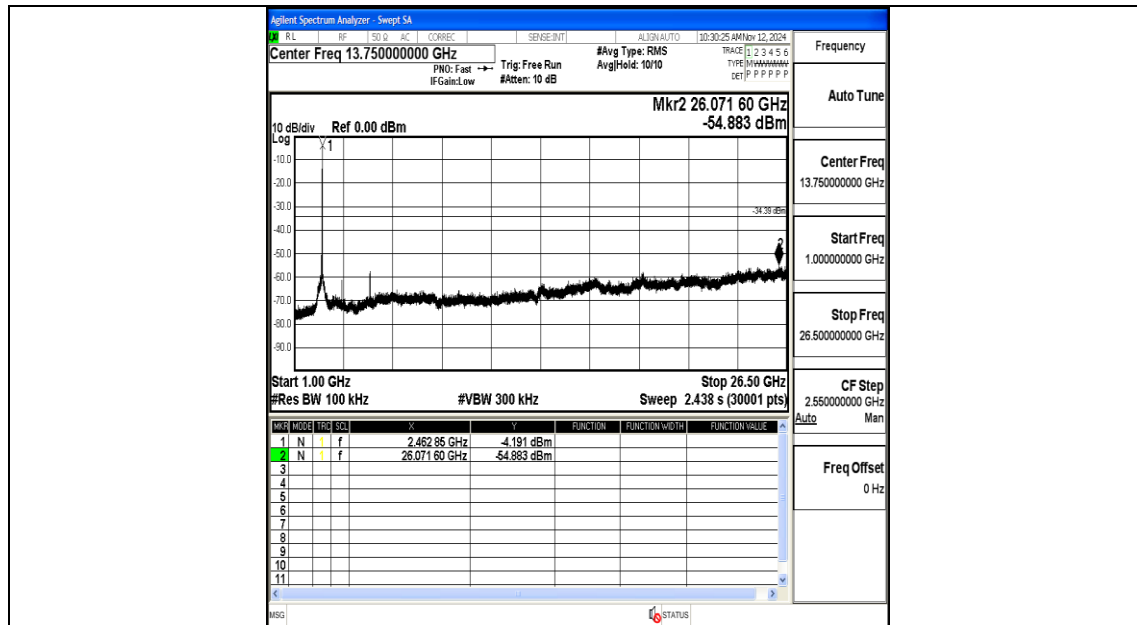
11G-Ant1-2437-1000~26500-PASS



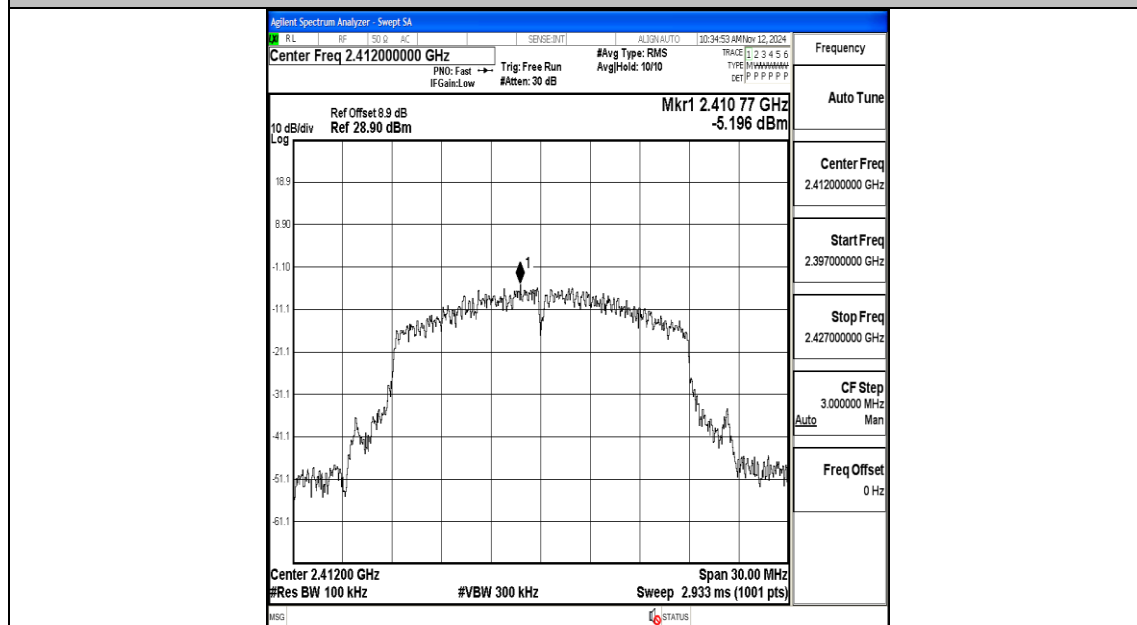
11G-Ant1-2462-0~Reference-PASS



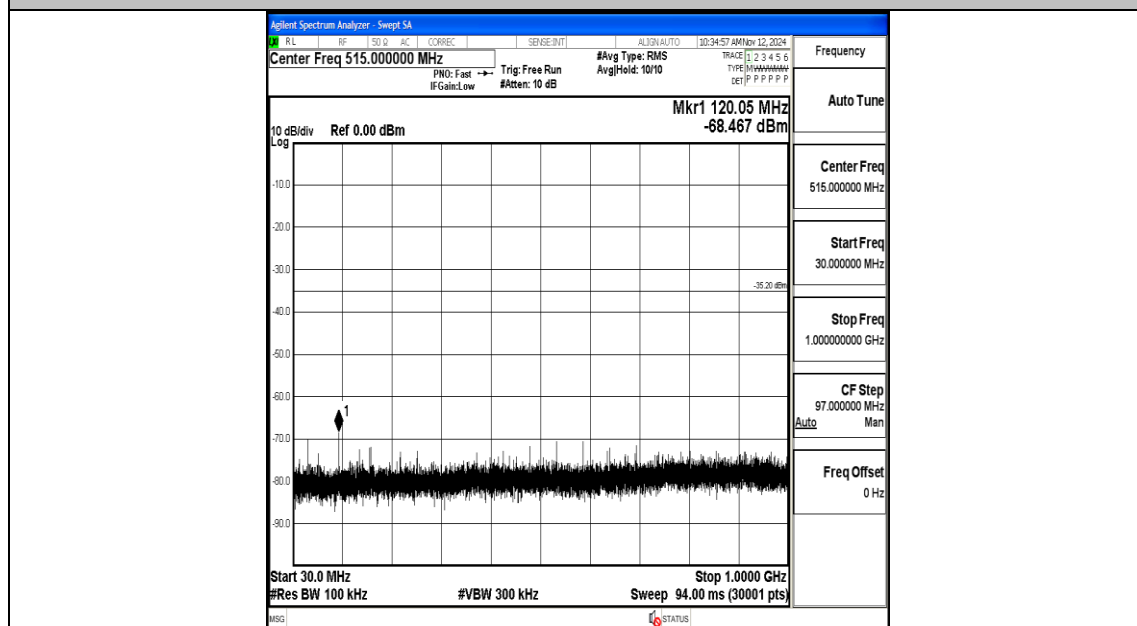
11G-Ant1-2462-30~1000-PASS



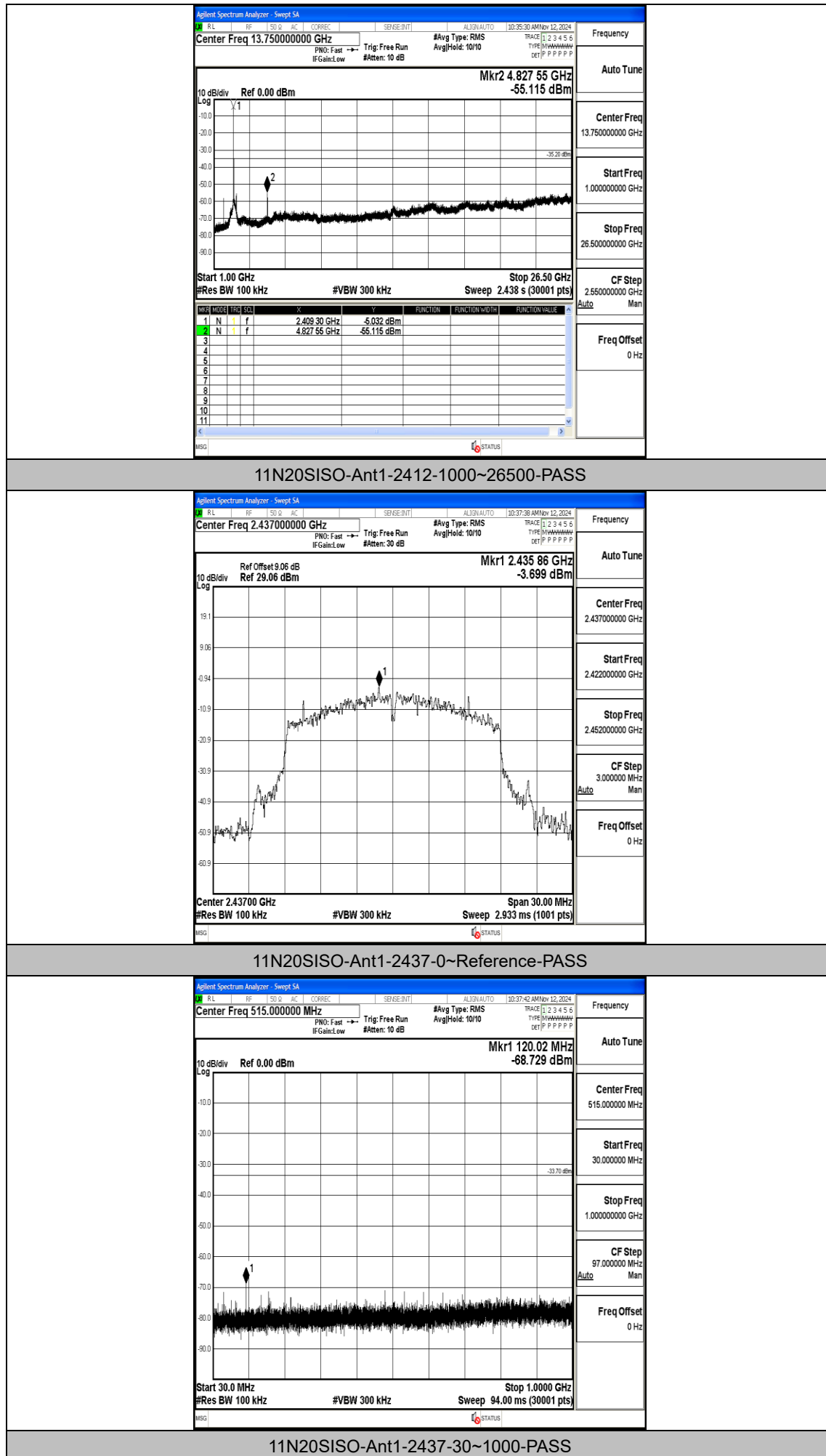
11G-Ant1-2462-1000~26500-PASS

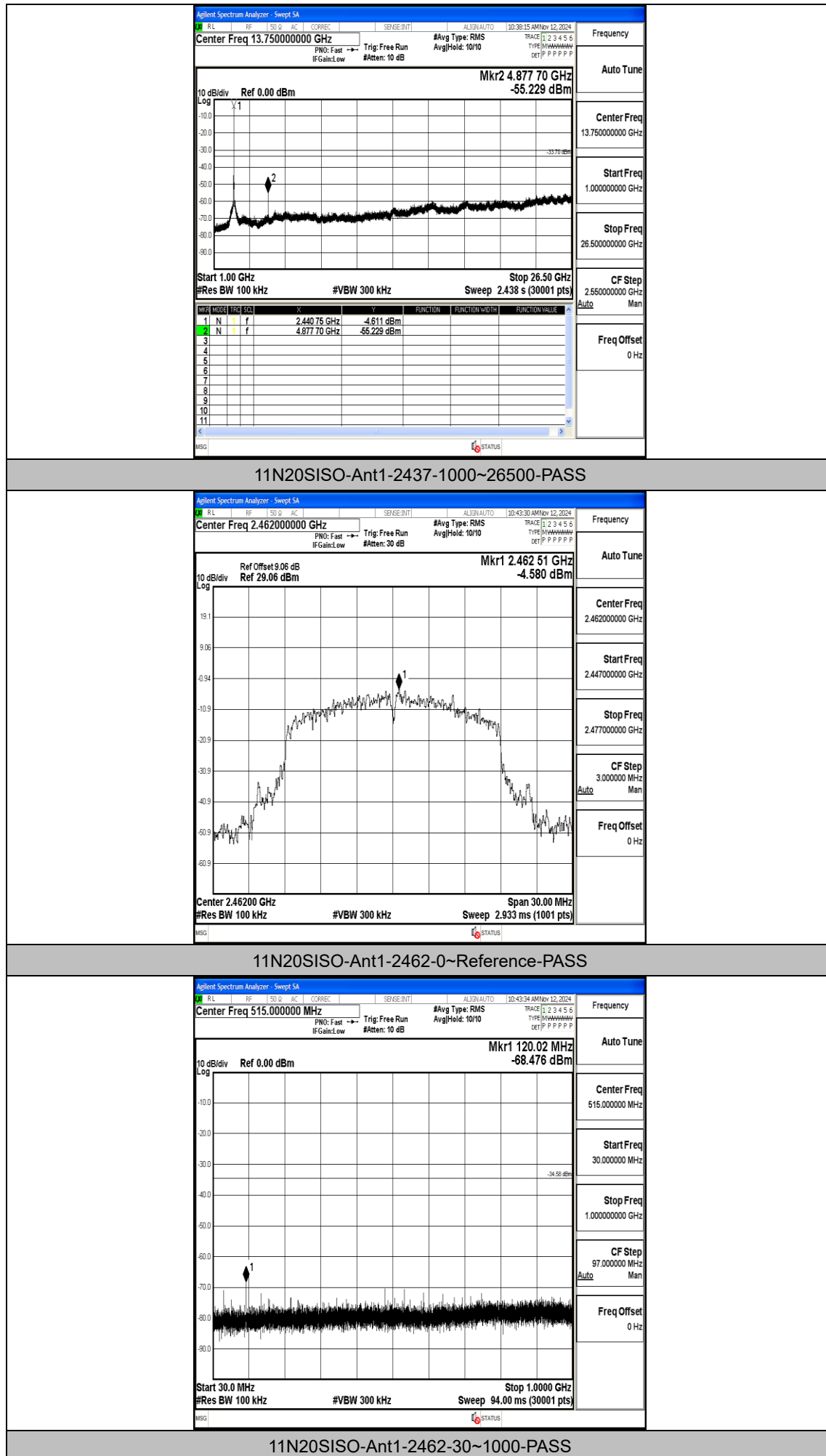


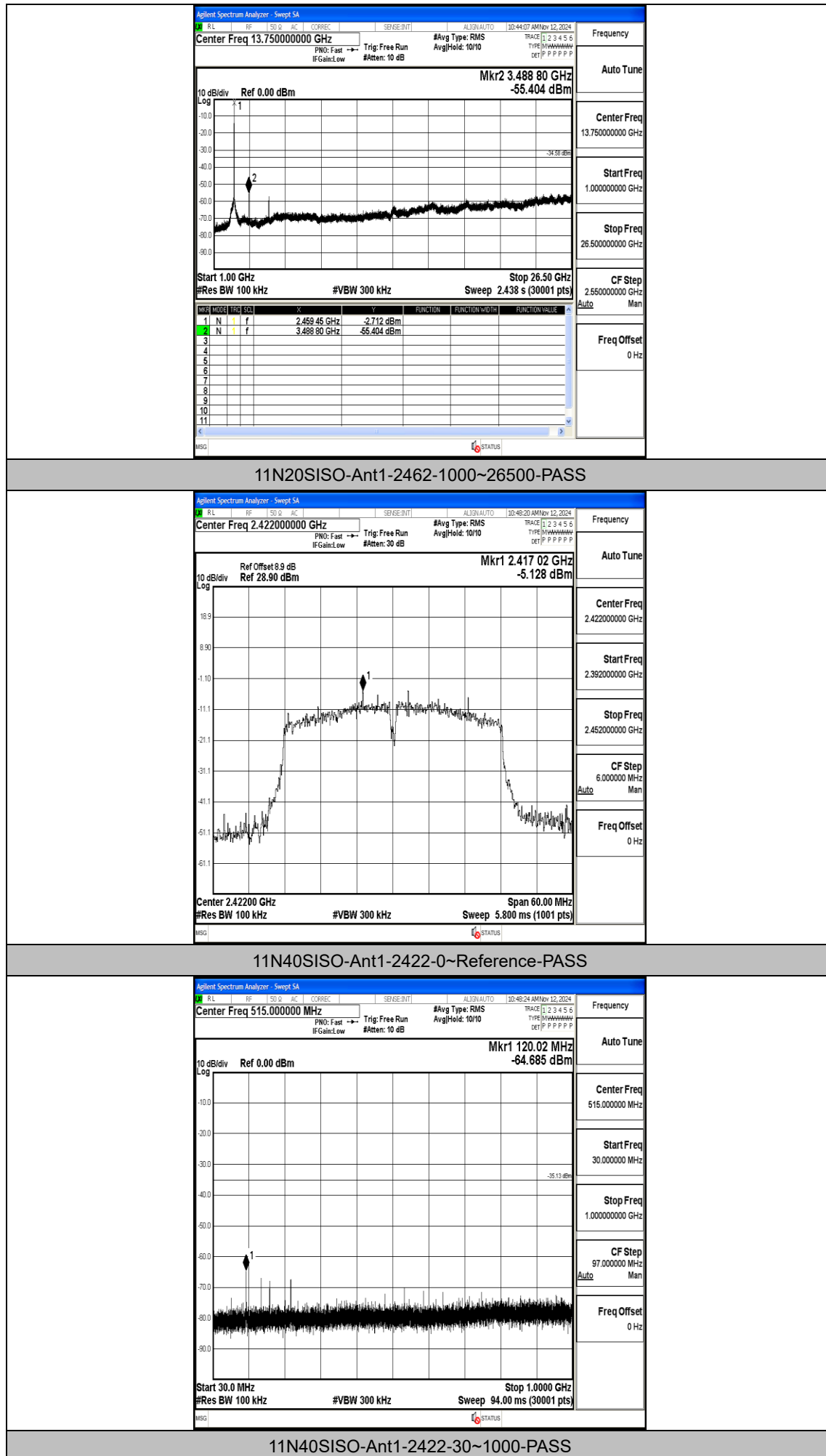
11N20SISO-Ant1-2412-0~Reference-PASS

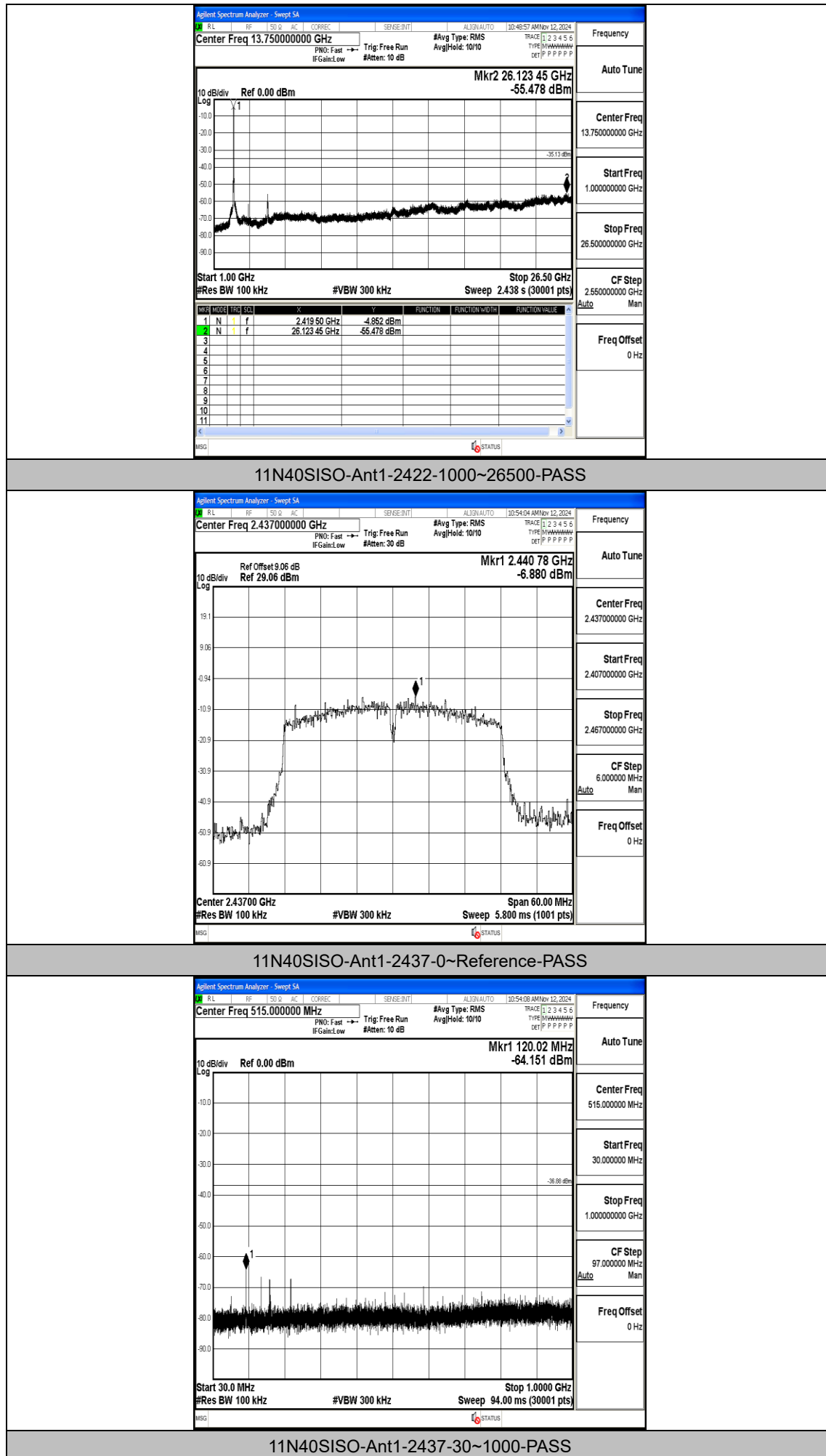


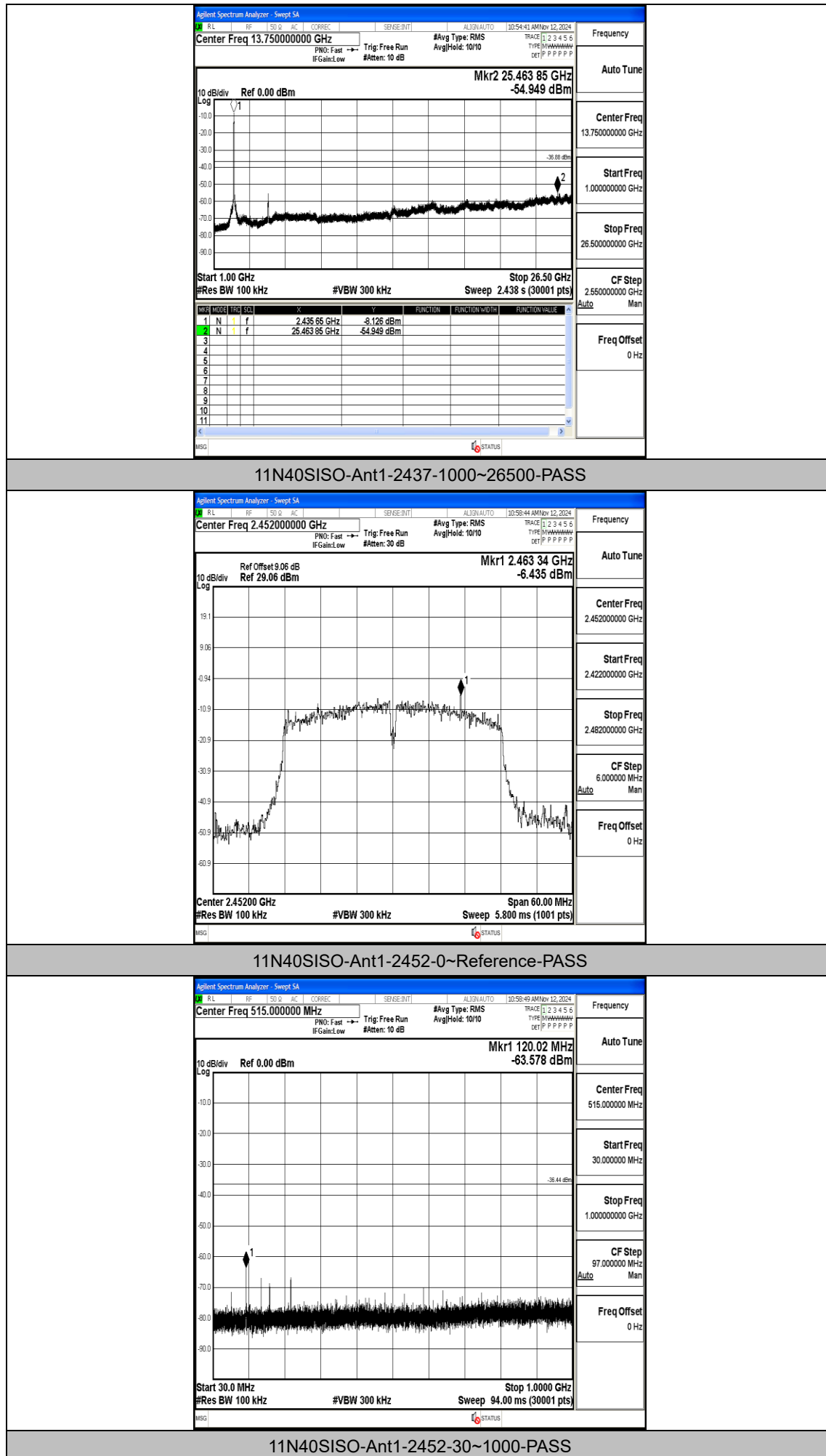
11N20SISO-Ant1-2412-30~1000-PASS

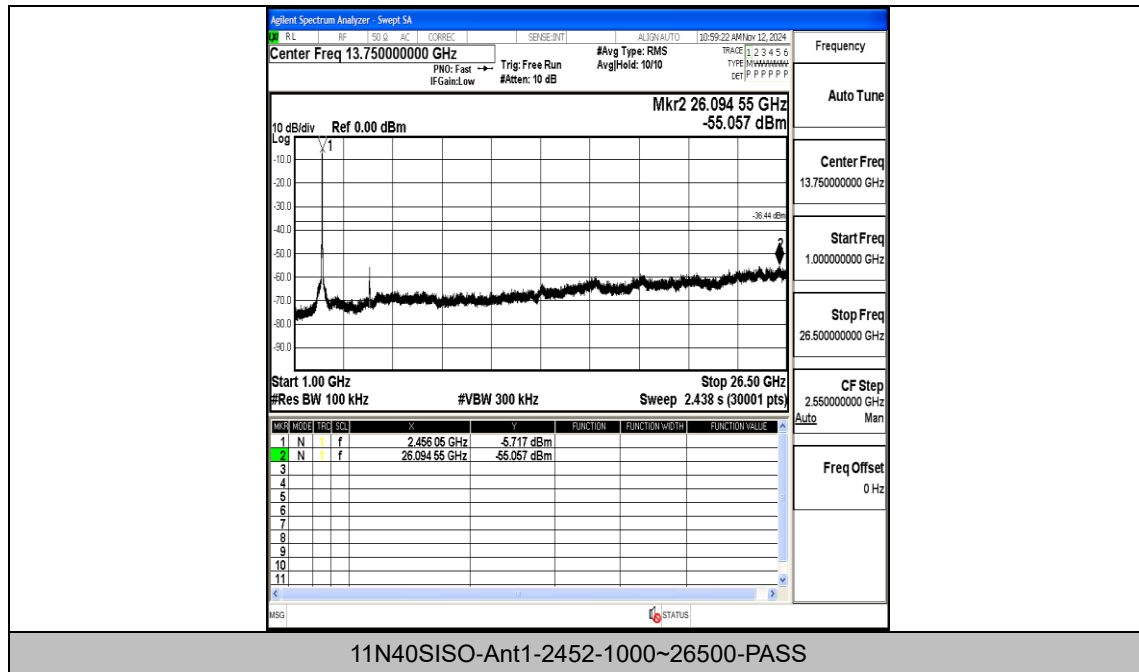












Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.40	99.76	0.01
11B	Ant1	2437	8.39	8.40	99.88	0.01
11B	Ant1	2462	8.38	8.40	99.76	0.01
11G	Ant1	2412	1.40	1.41	99.29	0.03
11G	Ant1	2437	1.39	1.41	98.58	0.06
11G	Ant1	2462	1.39	1.41	98.58	0.06
11N20SISO	Ant1	2412	1.30	1.31	99.24	0.03
11N20SISO	Ant1	2437	1.30	1.32	98.48	0.07
11N20SISO	Ant1	2462	1.30	1.32	98.48	0.07
11N40SISO	Ant1	2422	0.65	0.66	98.48	0.07
11N40SISO	Ant1	2437	0.65	0.66	98.48	0.07
11N40SISO	Ant1	2452	0.65	0.66	98.48	0.07

Test Graphs

