

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

Product Name: MG Flasher Adapter

Trade Mark: /

Test Model: MG-100

FCC ID: 2AWSB-MG100

Environmental Conditions

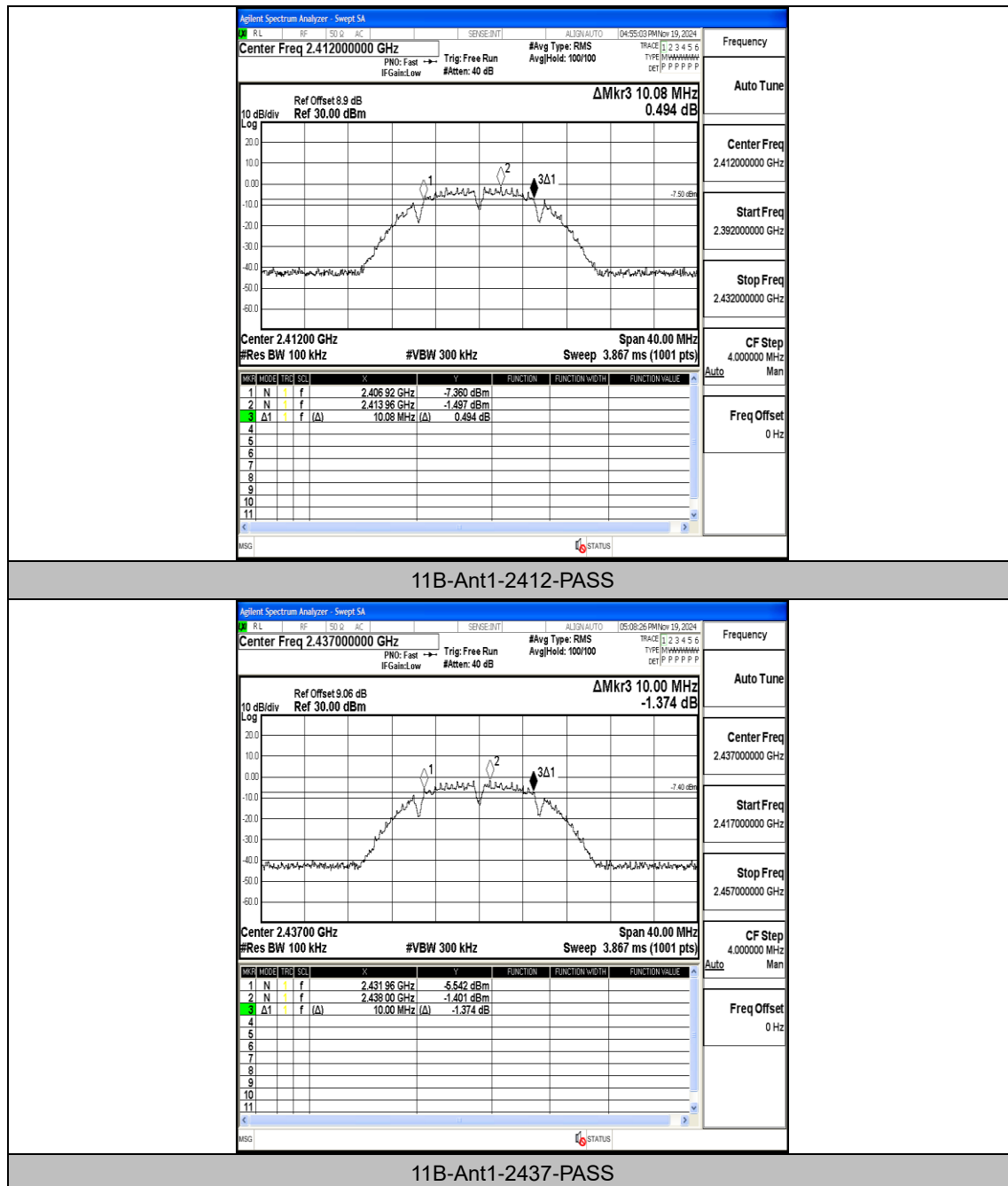
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

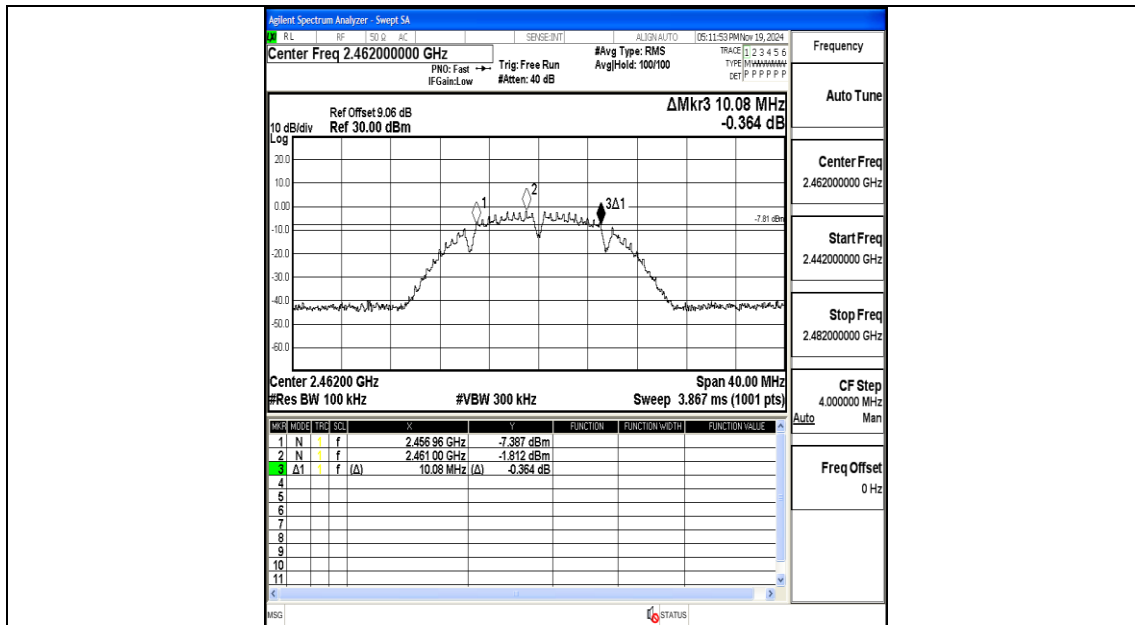
Appendix A: DTS Bandwidth

Test Result

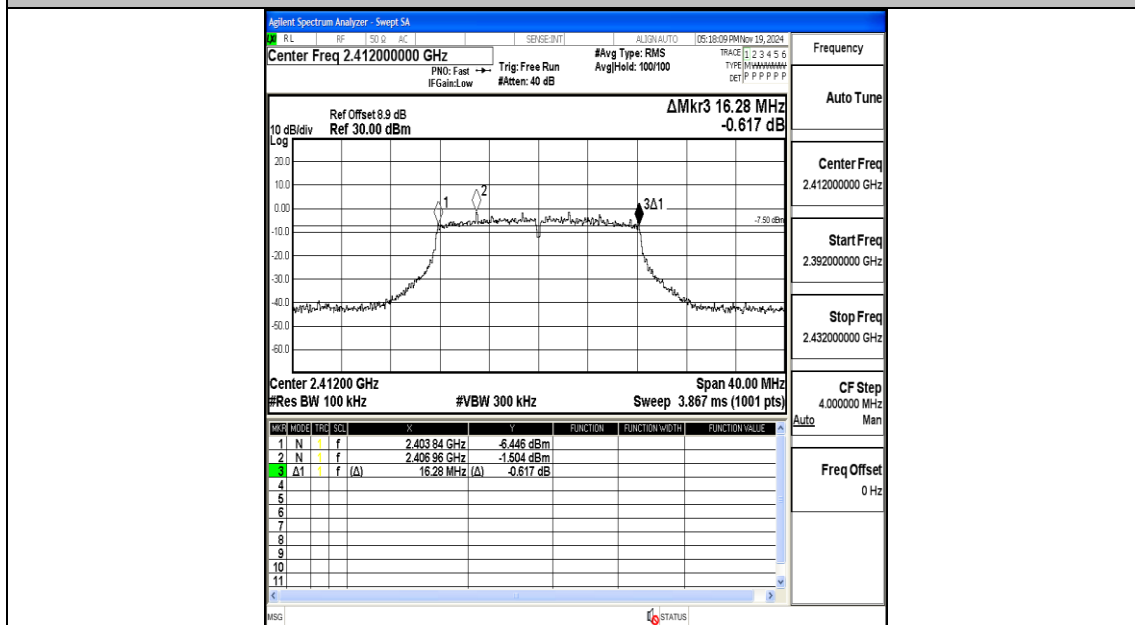
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	10.080	2406.920	2417.000	0.5	PASS
11B	Ant1	2437	10.000	2431.960	2441.960	0.5	PASS
11B	Ant1	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.280	2403.840	2420.120	0.5	PASS
11G	Ant1	2437	16.280	2428.840	2445.120	0.5	PASS
11G	Ant1	2462	15.280	2454.240	2469.520	0.5	PASS
11N20SISO	Ant1	2412	16.280	2403.840	2420.120	0.5	PASS
11N20SISO	Ant1	2437	15.880	2429.240	2445.120	0.5	PASS
11N20SISO	Ant1	2462	17.200	2453.240	2470.440	0.5	PASS
11N40SISO	Ant1	2422	34.320	2405.120	2439.440	0.5	PASS
11N40SISO	Ant1	2437	35.040	2419.480	2454.520	0.5	PASS
11N40SISO	Ant1	2452	35.120	2434.400	2469.520	0.5	PASS

Test Graphs

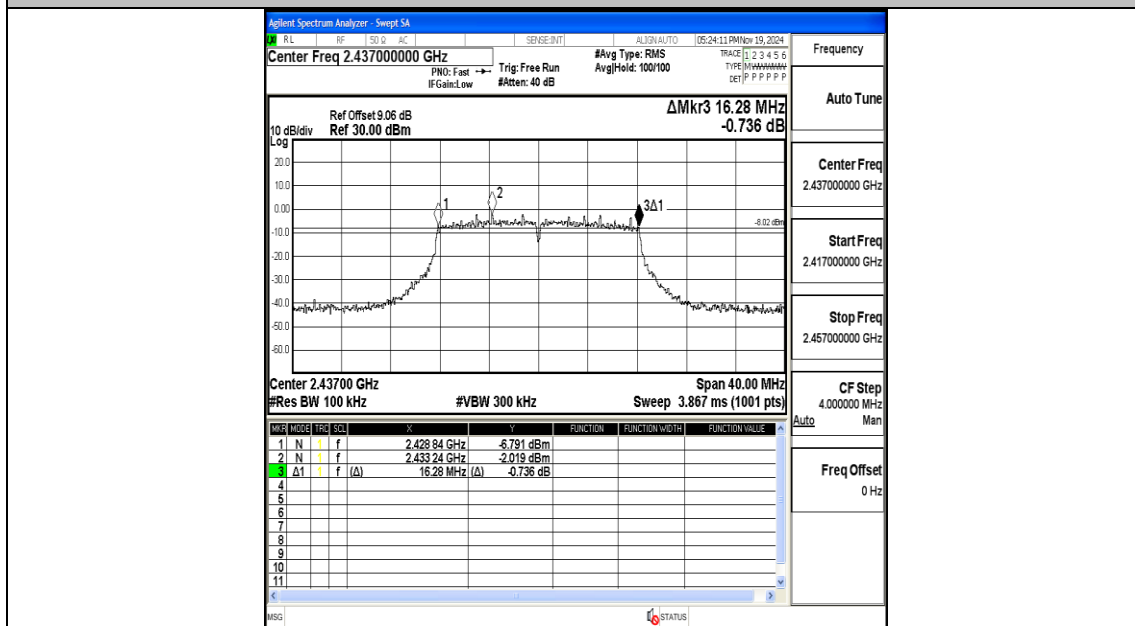




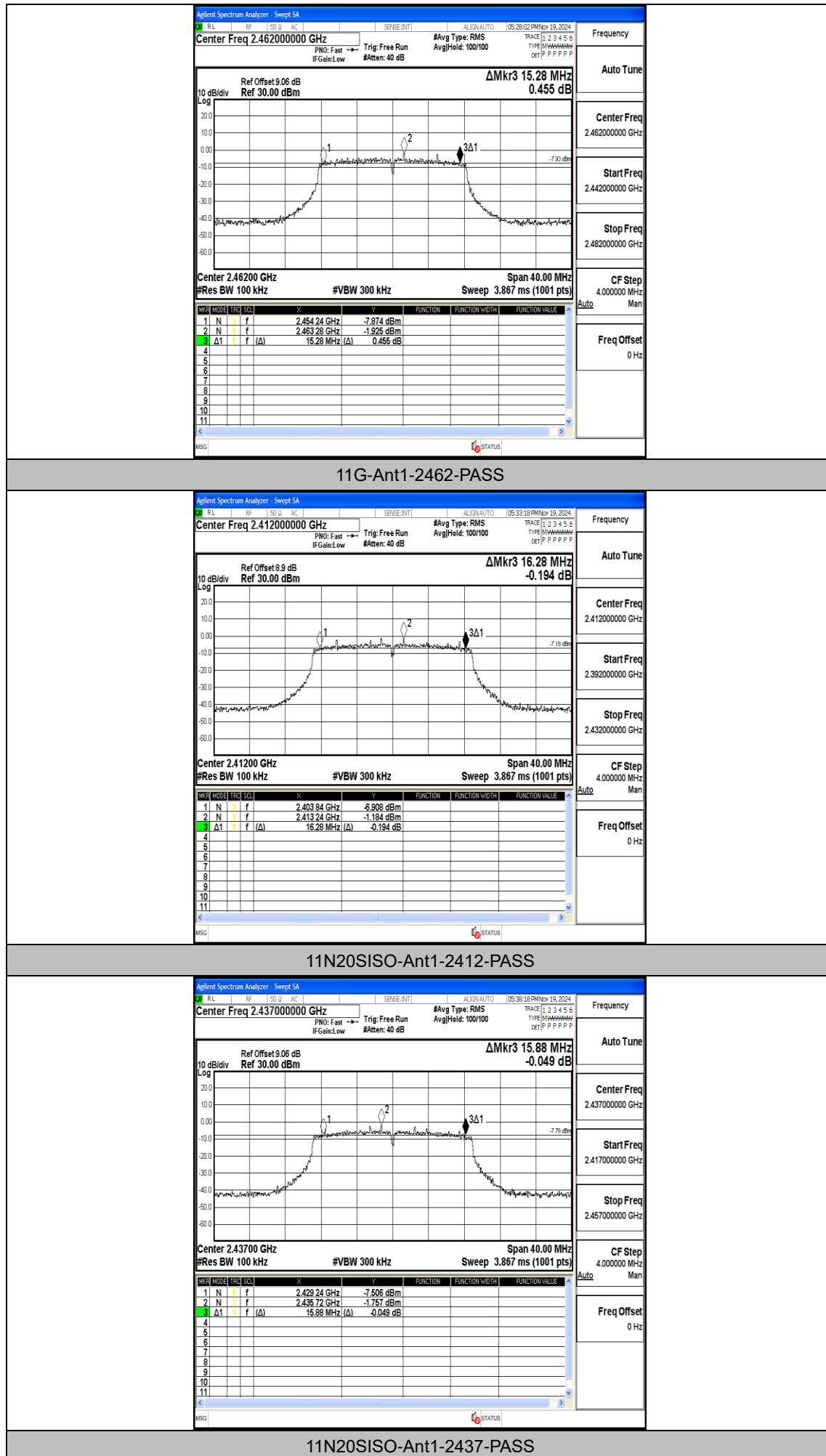
11B-Ant1-2462-PASS

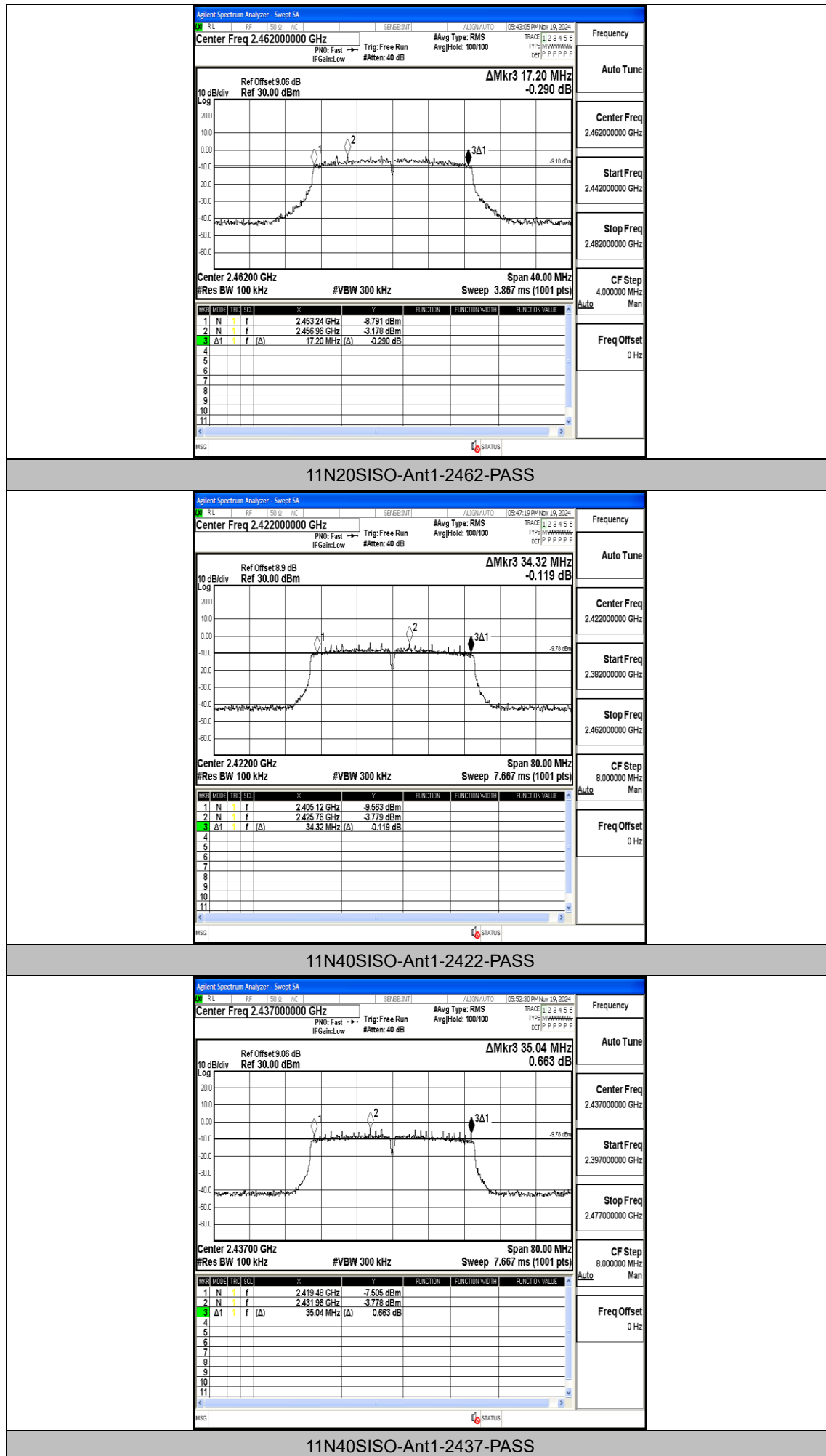


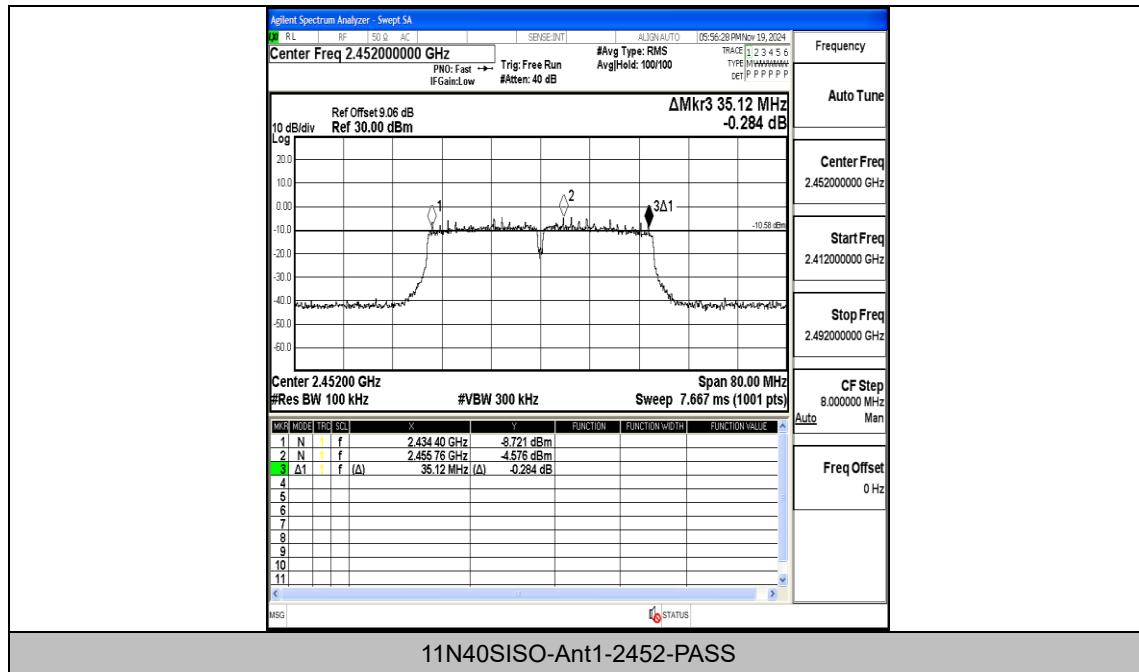
11G-Ant1-2412-PASS



11G-Ant1-2437-PASS





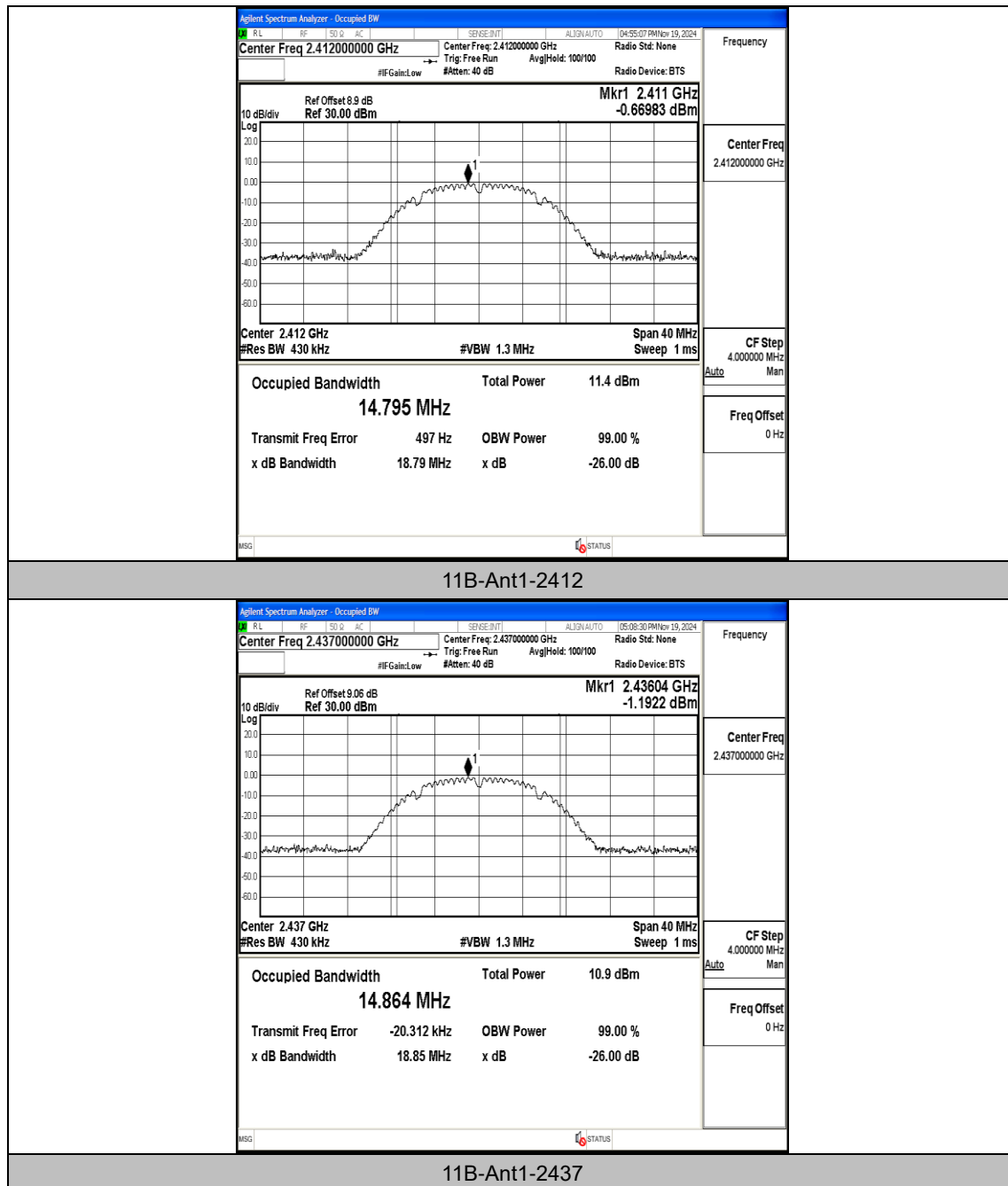


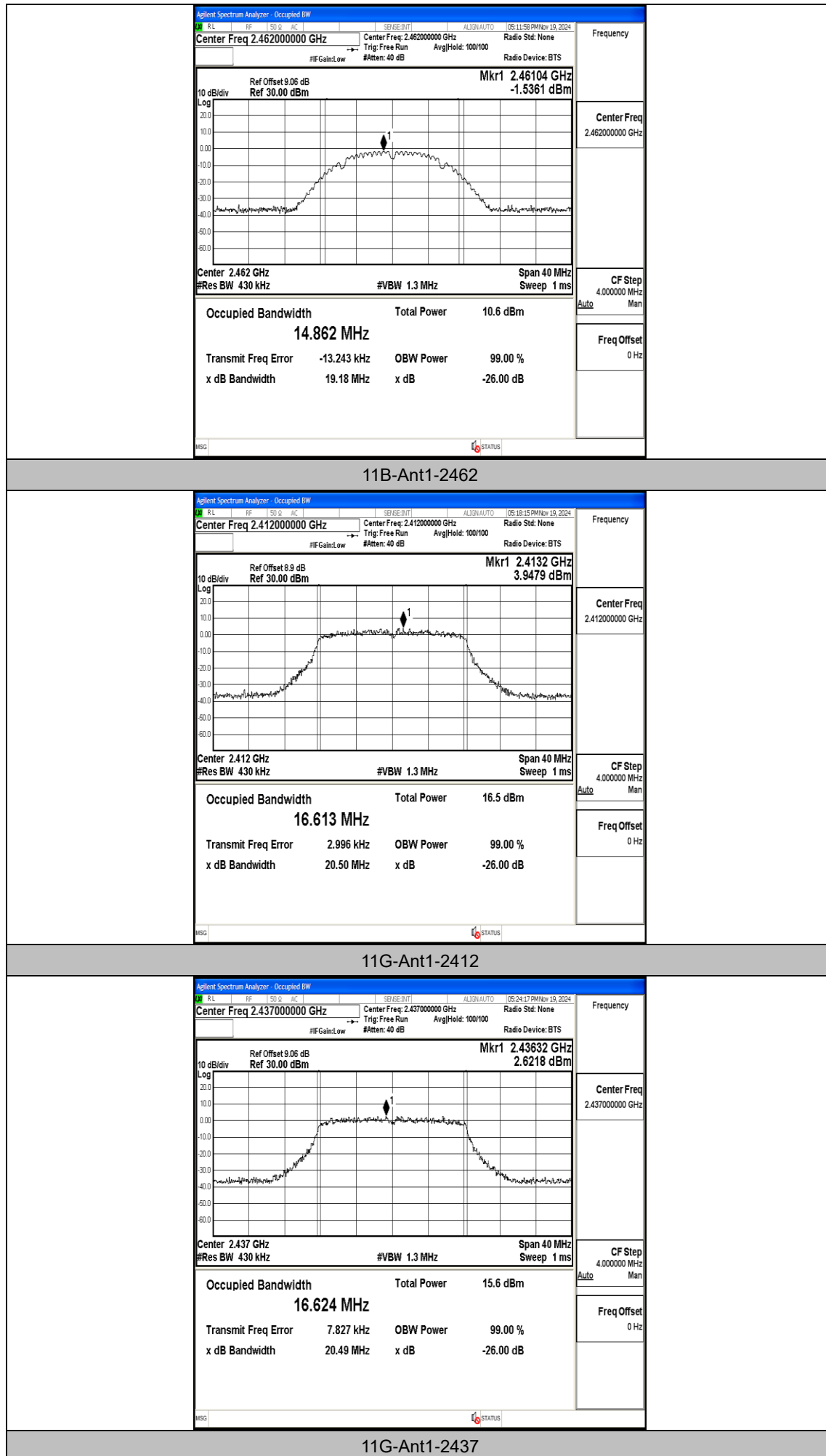
Appendix B: Occupied Channel Bandwidth

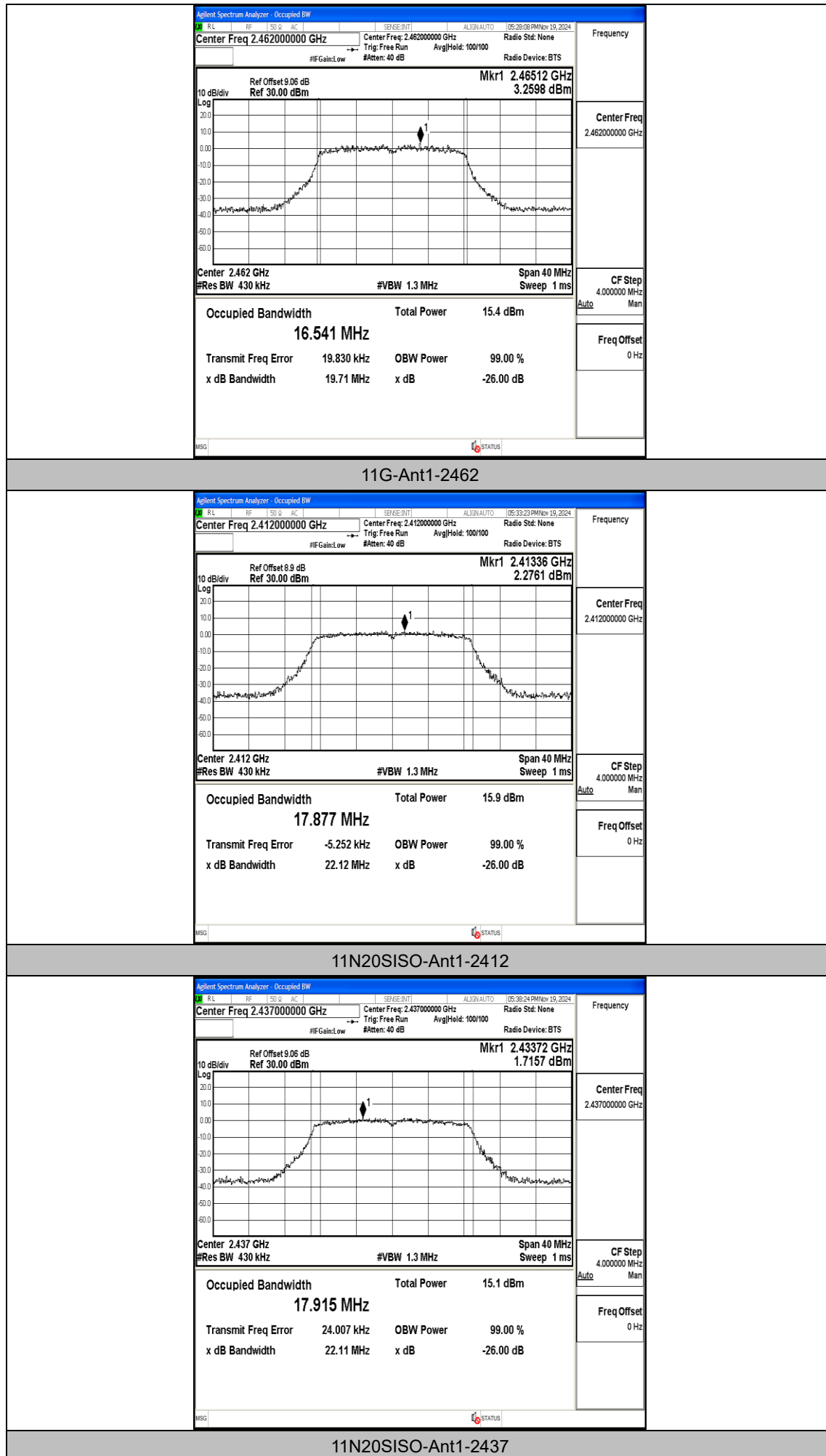
Test Result

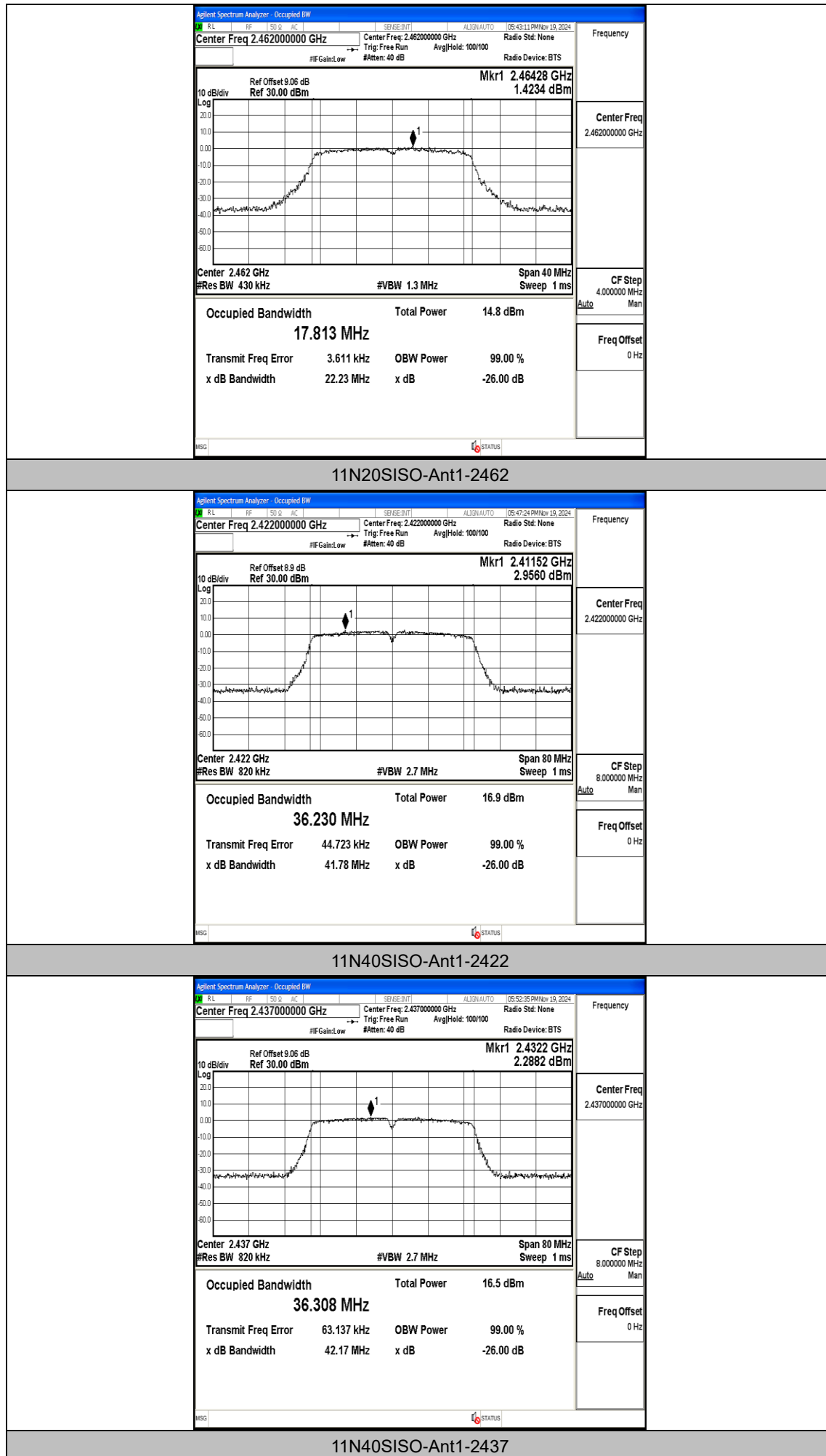
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	14.795	2404.6030	2419.3980	---	---
11B	Ant1	2437	14.864	2429.5477	2444.4117	---	---
11B	Ant1	2462	14.862	2454.5558	2469.4178	---	---
11G	Ant1	2412	16.613	2403.6965	2420.3095	---	---
11G	Ant1	2437	16.624	2428.6958	2445.3198	---	---
11G	Ant1	2462	16.541	2453.7493	2470.2903	---	---
11N20SISO	Ant1	2412	17.877	2403.0563	2420.9333	---	---
11N20SISO	Ant1	2437	17.915	2428.0665	2445.9815	---	---
11N20SISO	Ant1	2462	17.813	2453.0971	2470.9101	---	---
11N40SISO	Ant1	2422	36.230	2403.9297	2440.1597	---	---
11N40SISO	Ant1	2437	36.308	2418.9091	2455.2171	---	---
11N40SISO	Ant1	2452	36.327	2433.8225	2470.1495	---	---

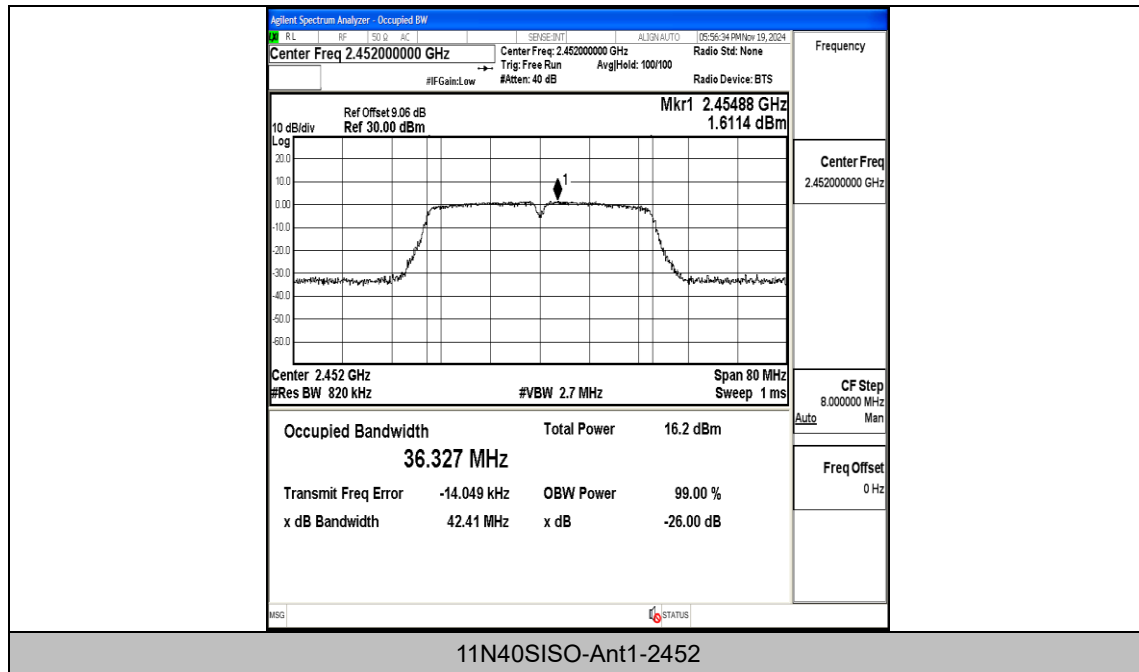
Test Graphs











Appendix C: Maximum Average conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	8.47	≤30.00	PASS
11B	Ant1	2437	7.89	≤30.00	PASS
11B	Ant1	2462	7.46	≤30.00	PASS
11G	Ant1	2412	10.10	≤30.00	PASS
11G	Ant1	2437	9.43	≤30.00	PASS
11G	Ant1	2462	8.82	≤30.00	PASS
11N20SISO	Ant1	2412	10.10	≤30.00	PASS
11N20SISO	Ant1	2437	9.25	≤30.00	PASS
11N20SISO	Ant1	2462	8.99	≤30.00	PASS
11N40SISO	Ant1	2422	9.93	≤30.00	PASS
11N40SISO	Ant1	2437	9.72	≤30.00	PASS
11N40SISO	Ant1	2452	9.33	≤30.00	PASS

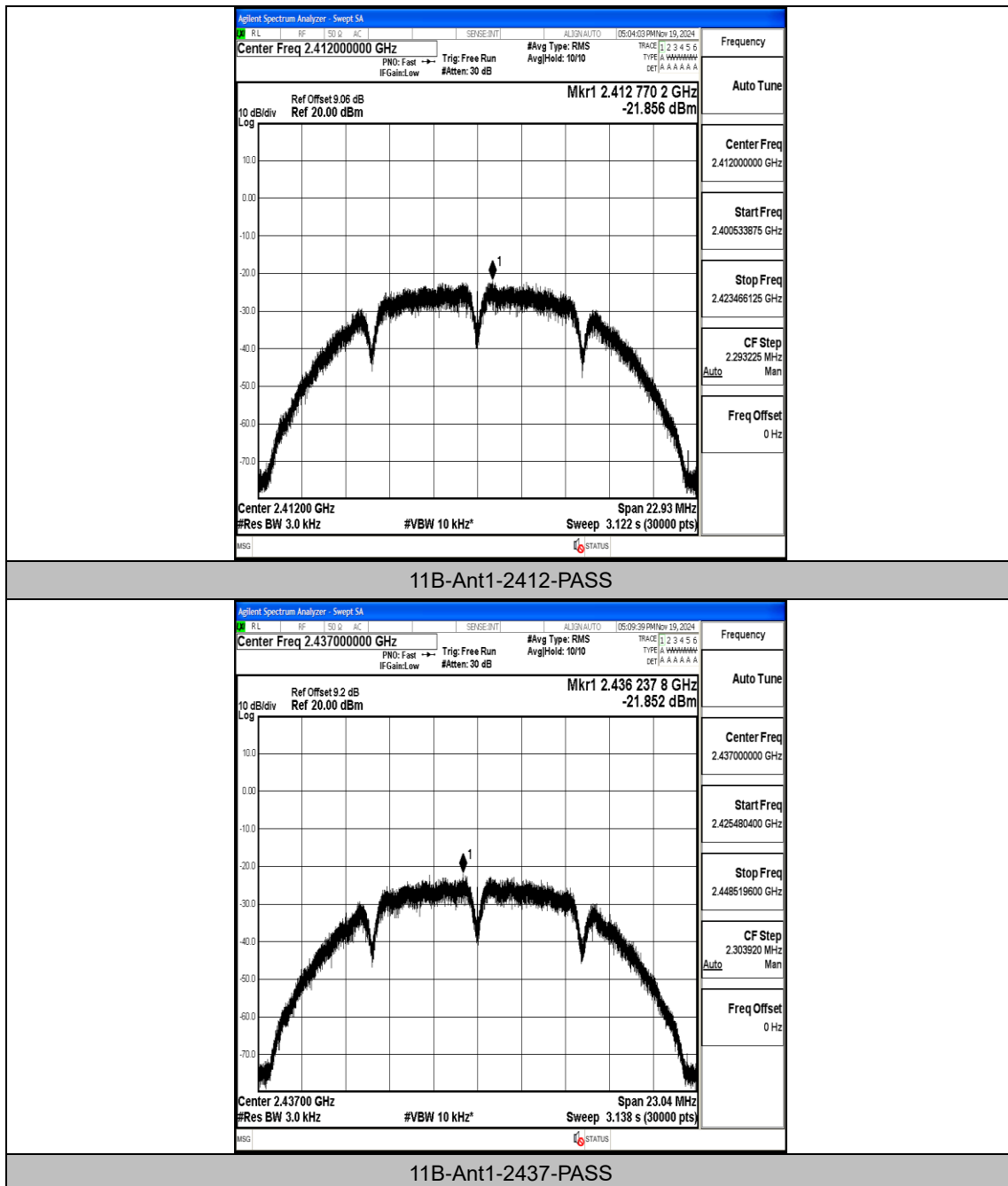
Note: The Duty Cycle Factor is compensated in the result.

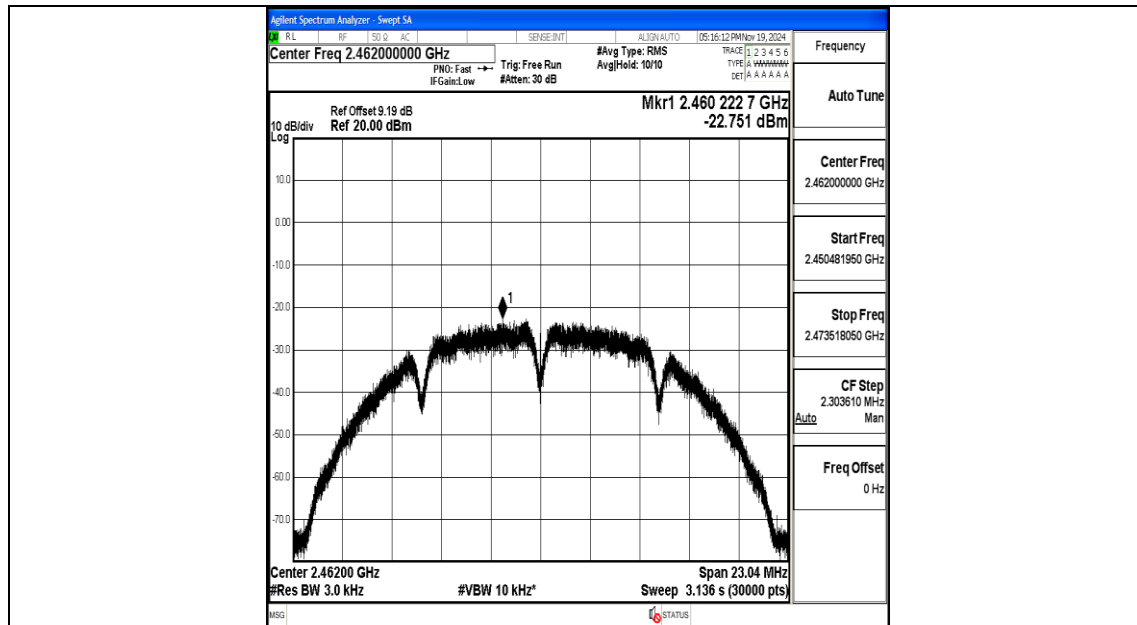
Appendix D: Maximum Average power spectral density

Test Result

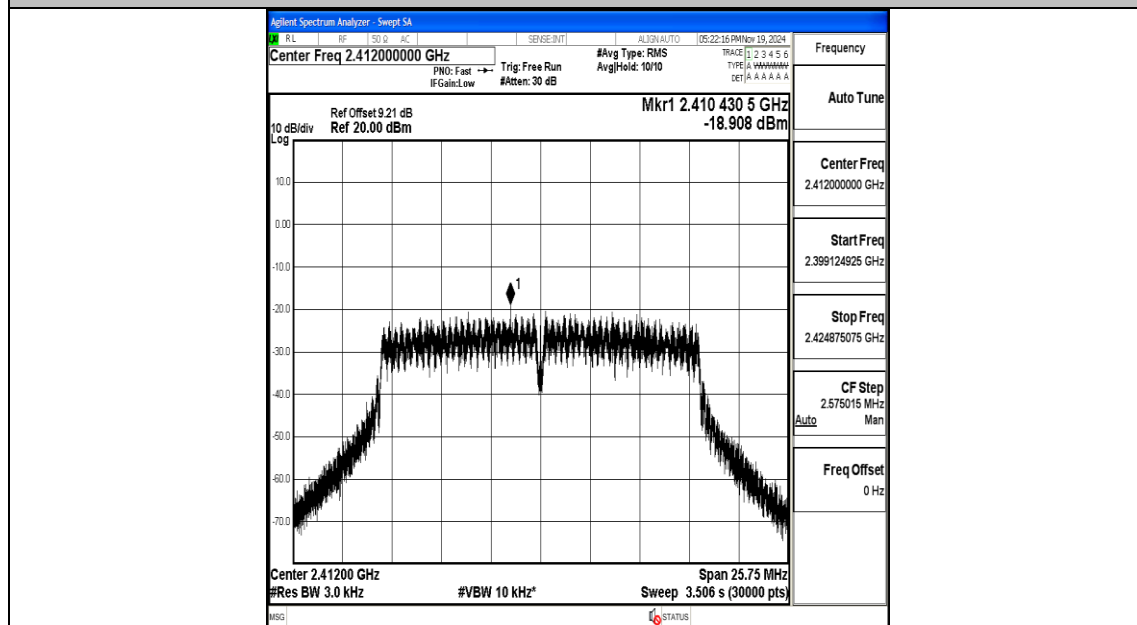
Test Mode	Antenna	Frequency [MHz]	Raw. Data [dBm/3-100kHz]	Dc. Factor	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-22.02	0.16	-21.86	≤8.00	PASS
11B	Ant1	2437	-21.99	0.14	-21.85	≤8.00	PASS
11B	Ant1	2462	-22.88	0.13	-22.75	≤8.00	PASS
11G	Ant1	2412	-19.22	0.31	-18.91	≤8.00	PASS
11G	Ant1	2437	-21.09	0.42	-20.67	≤8.00	PASS
11G	Ant1	2462	-21.39	0.23	-21.16	≤8.00	PASS
11N20SI SO	Ant1	2412	-20.38	0.49	-19.89	≤8.00	PASS
11N20SI SO	Ant1	2437	-21.07	0.39	-20.68	≤8.00	PASS
11N20SI SO	Ant1	2462	-21.16	0.31	-20.85	≤8.00	PASS
11N40SI SO	Ant1	2422	-22.56	0.64	-21.92	≤8.00	PASS
11N40SI SO	Ant1	2437	-22.78	0.72	-22.06	≤8.00	PASS
11N40SI SO	Ant1	2452	-23.98	0.83	-23.15	≤8.00	PASS

Test Graphs

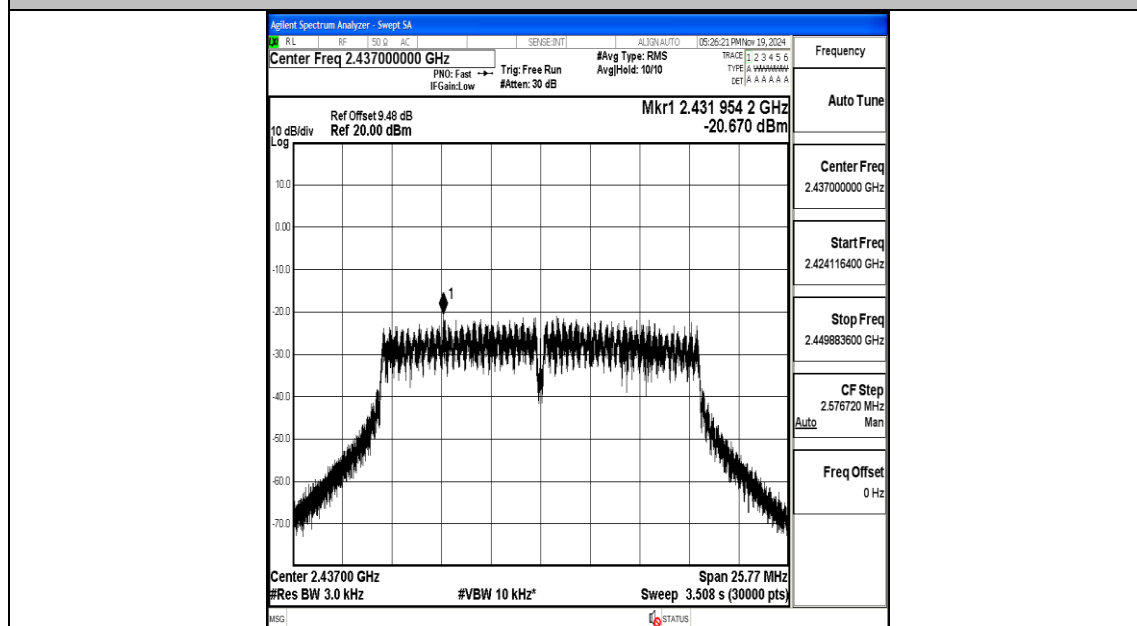




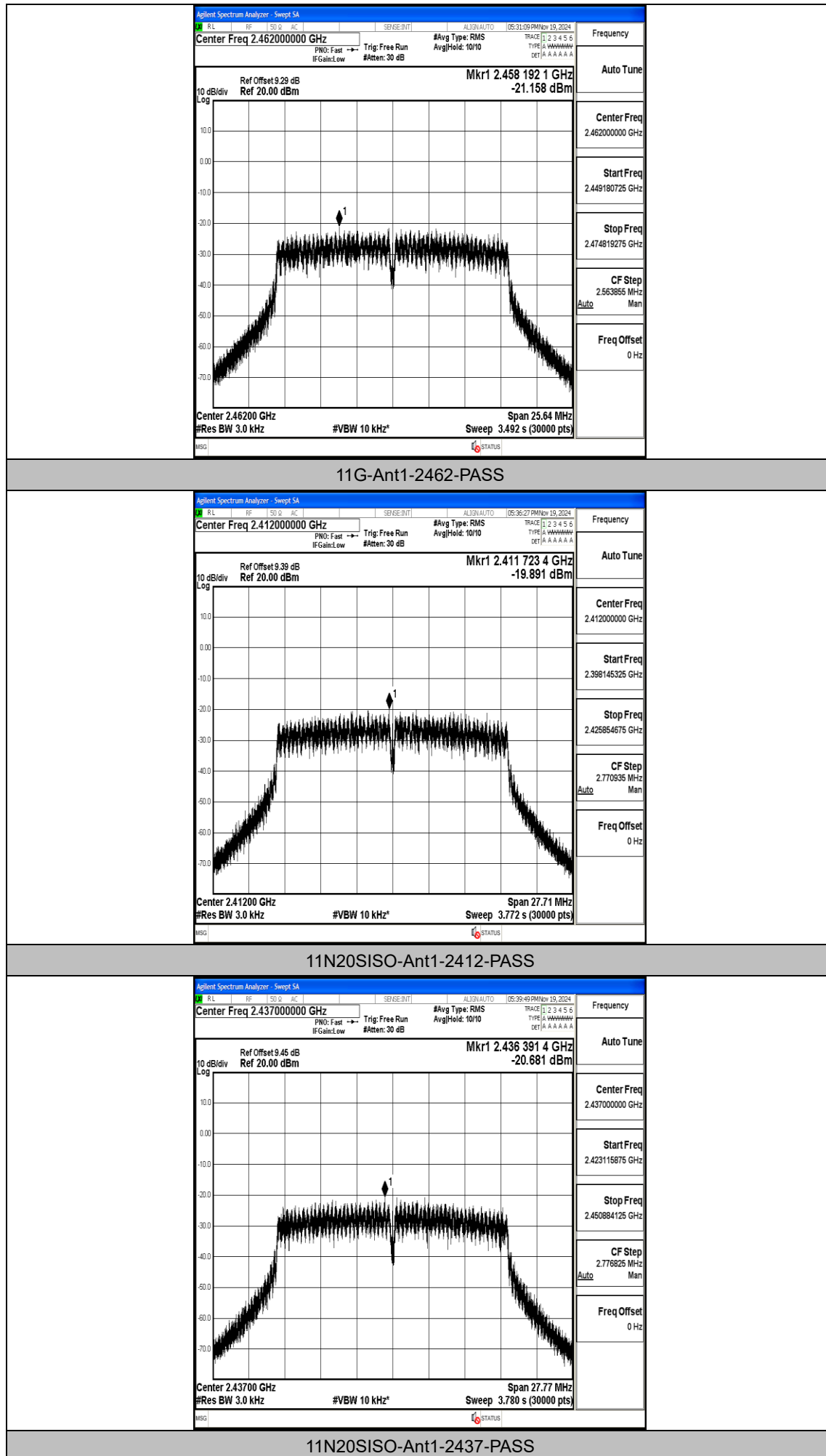
11B-Ant1-2462-PASS

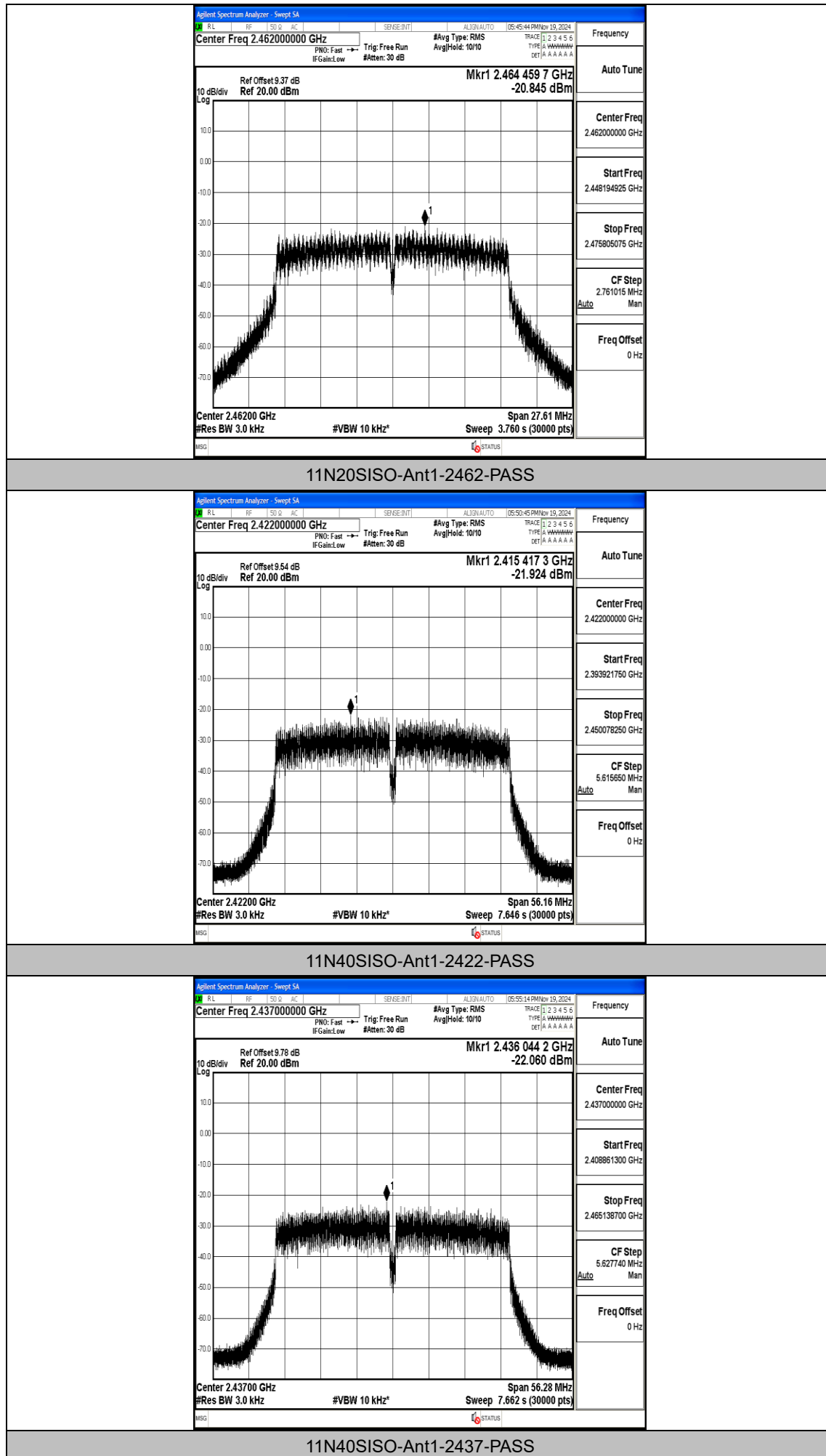


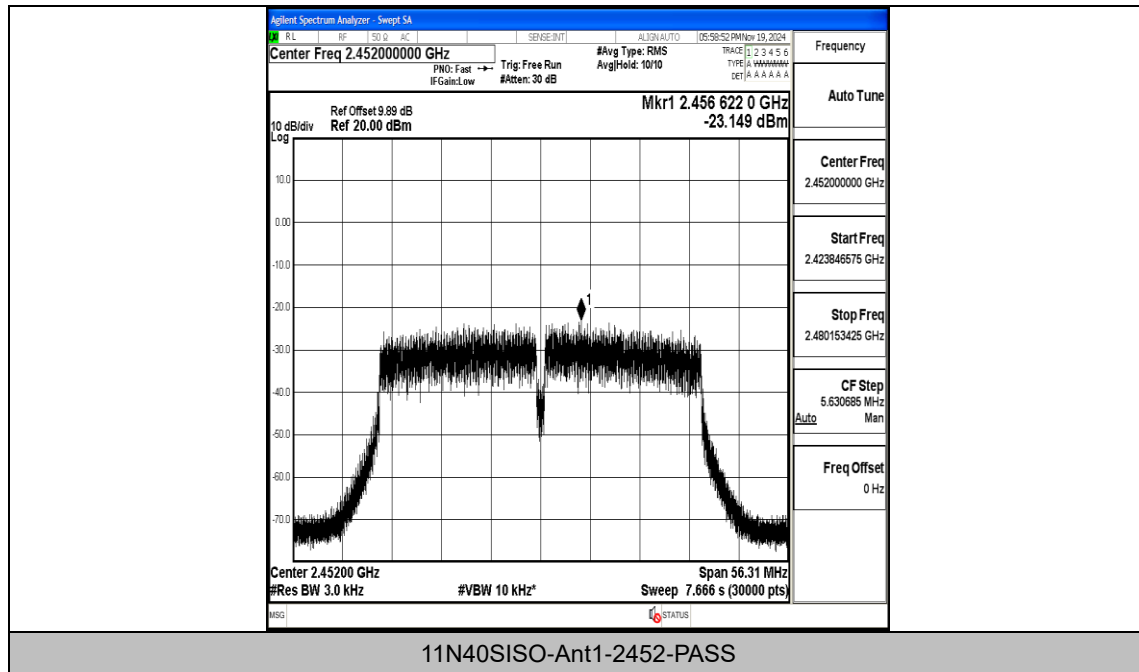
11G-Ant1-2412-PASS



11G-Ant1-2437-PASS





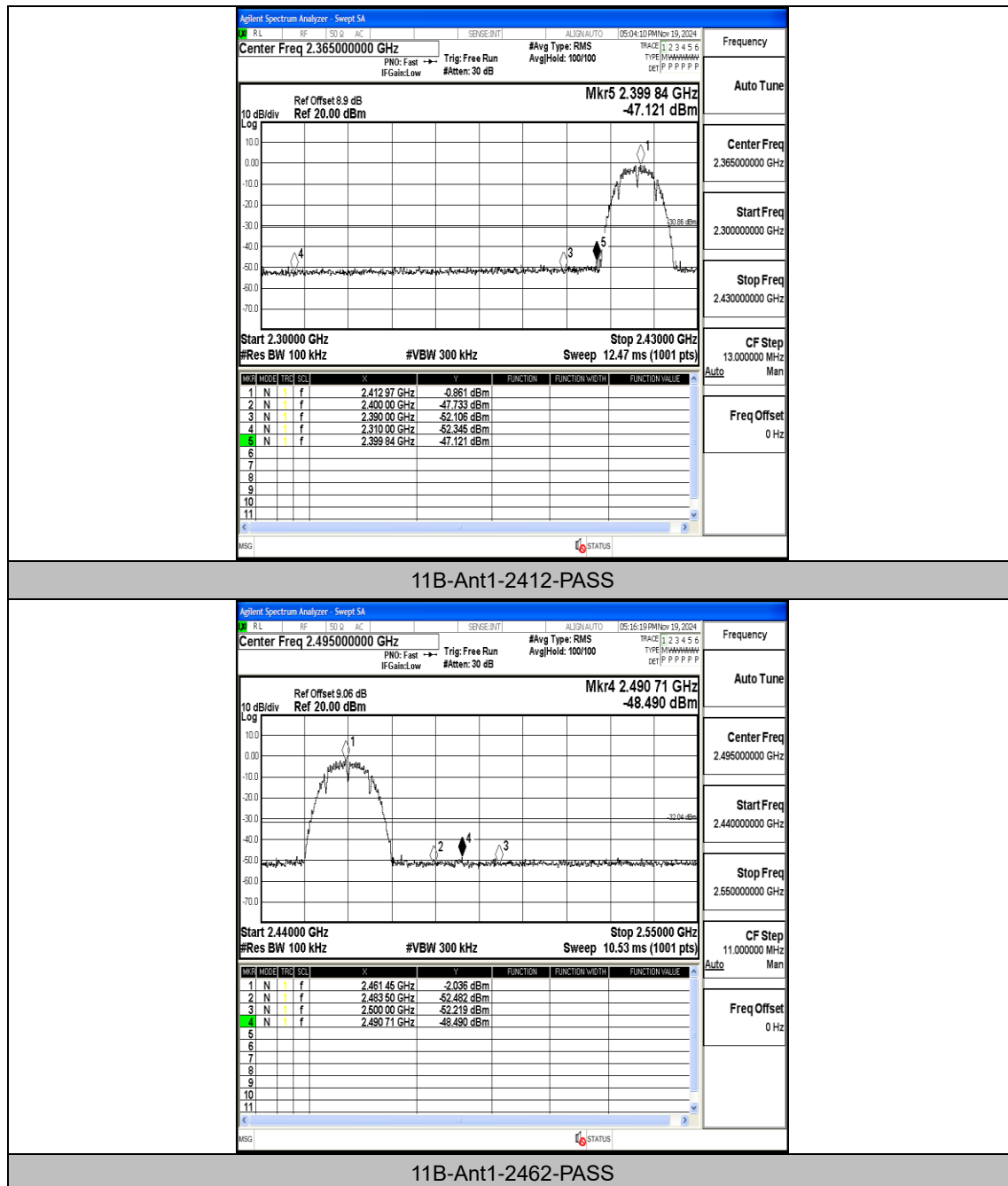


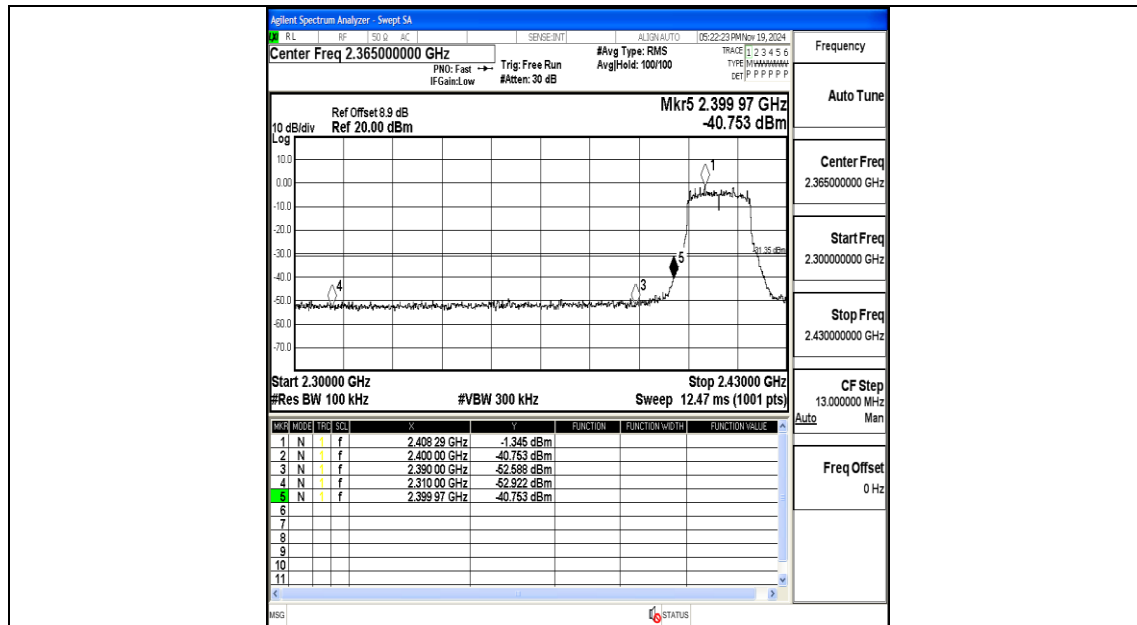
Appendix E: Band edge measurements

Test Result

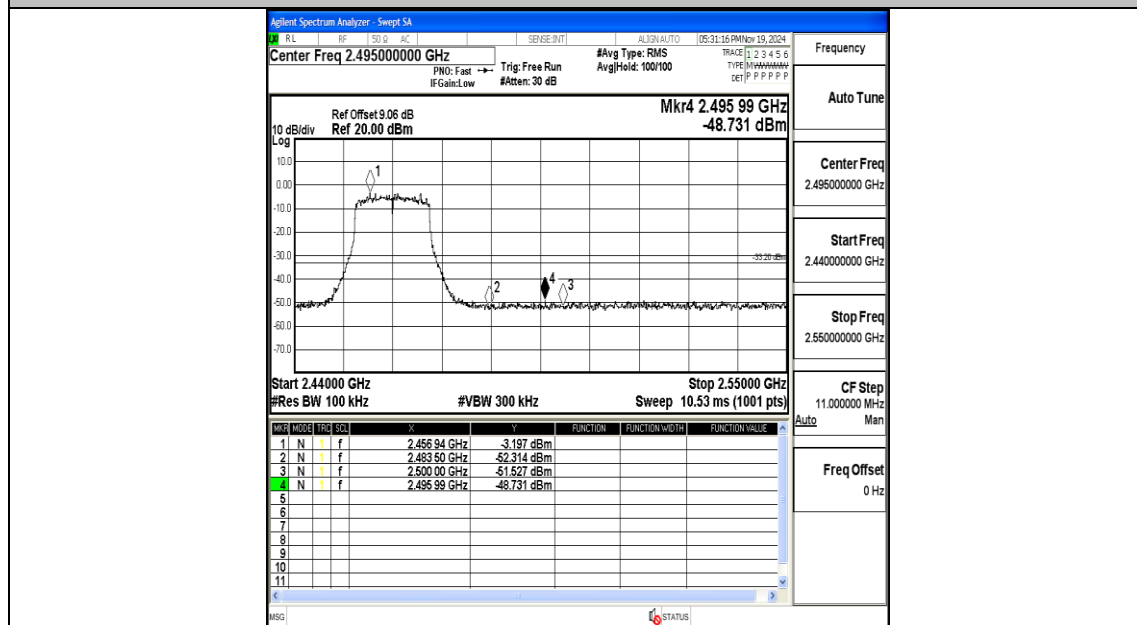
Test Mode	Antenna	Ch. Name	Frequency. [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	-0.86	-47.12	≤ -30.86	PASS
11B	Ant1	High	2462	-2.04	-48.49	≤ -32.04	PASS
11G	Ant1	Low	2412	-1.35	-40.75	≤ -31.35	PASS
11G	Ant1	High	2462	-3.20	-48.73	≤ -33.2	PASS
11N20SI SO	Ant1	Low	2412	-1.26	-39.14	≤ -31.26	PASS
11N20SI SO	Ant1	High	2462	-1.56	-48.49	≤ -31.56	PASS
11N40SI SO	Ant1	Low	2422	-3.51	-43.69	≤ -33.51	PASS
11N40SI SO	Ant1	High	2452	-4.36	-47.61	≤ -34.36	PASS

Test Graphs

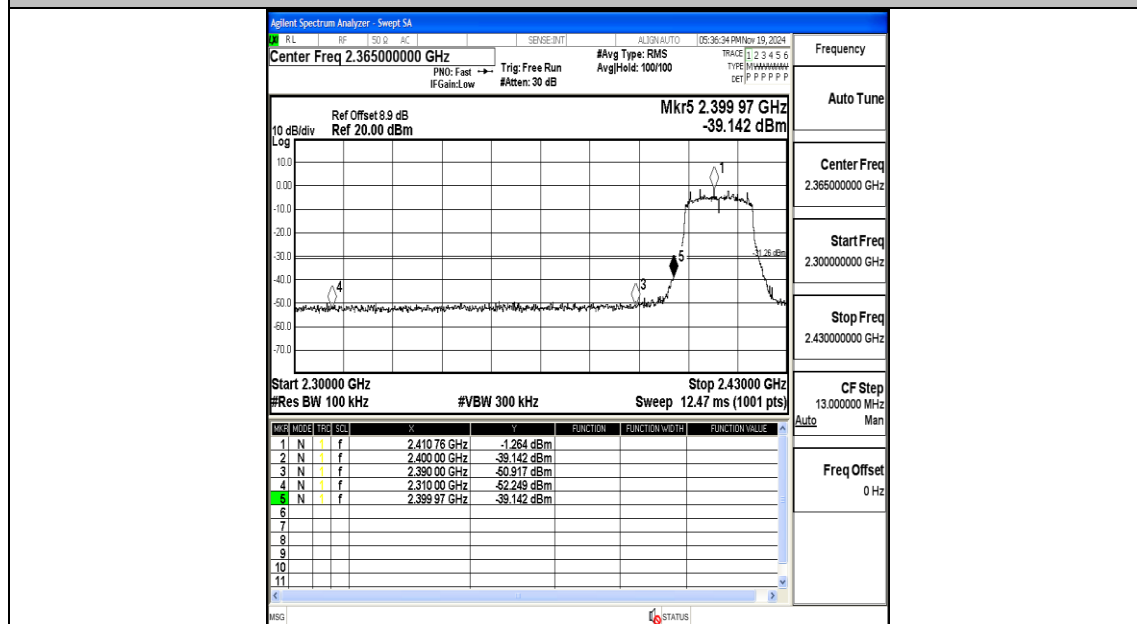




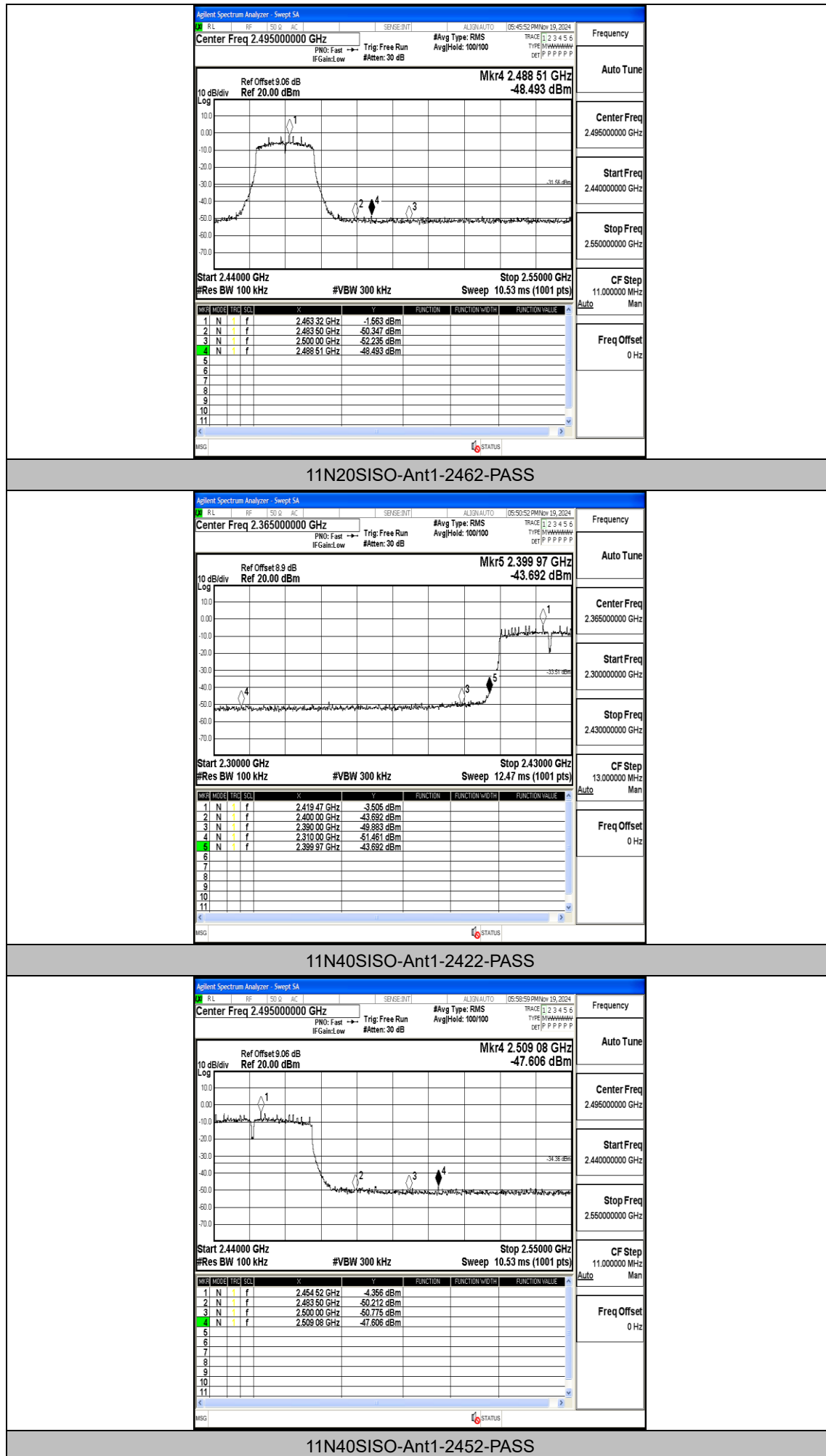
11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

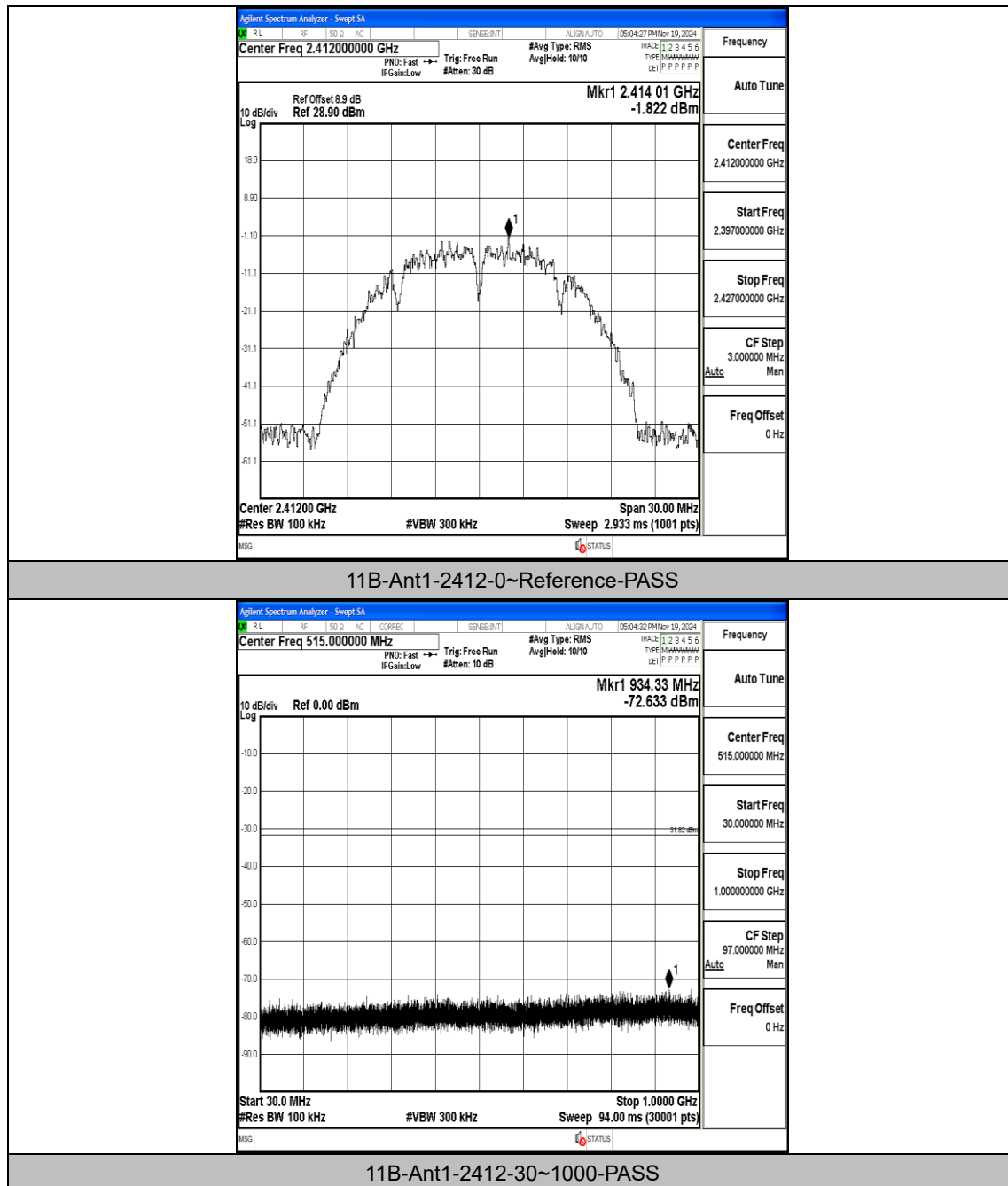


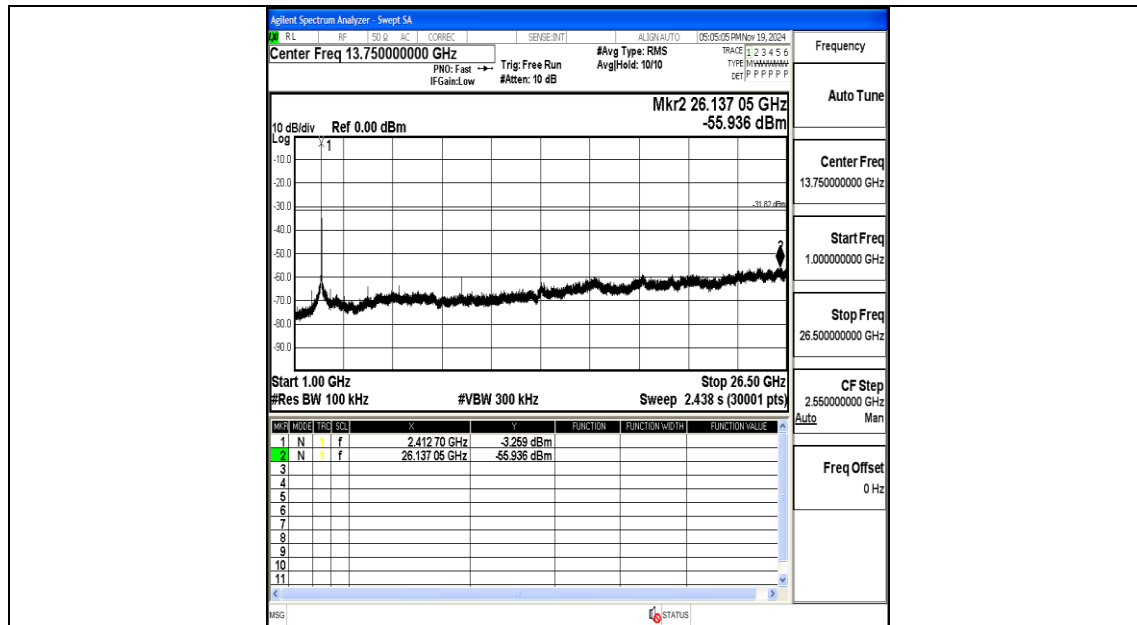
Appendix F: Conducted Spurious Emission

Test Result

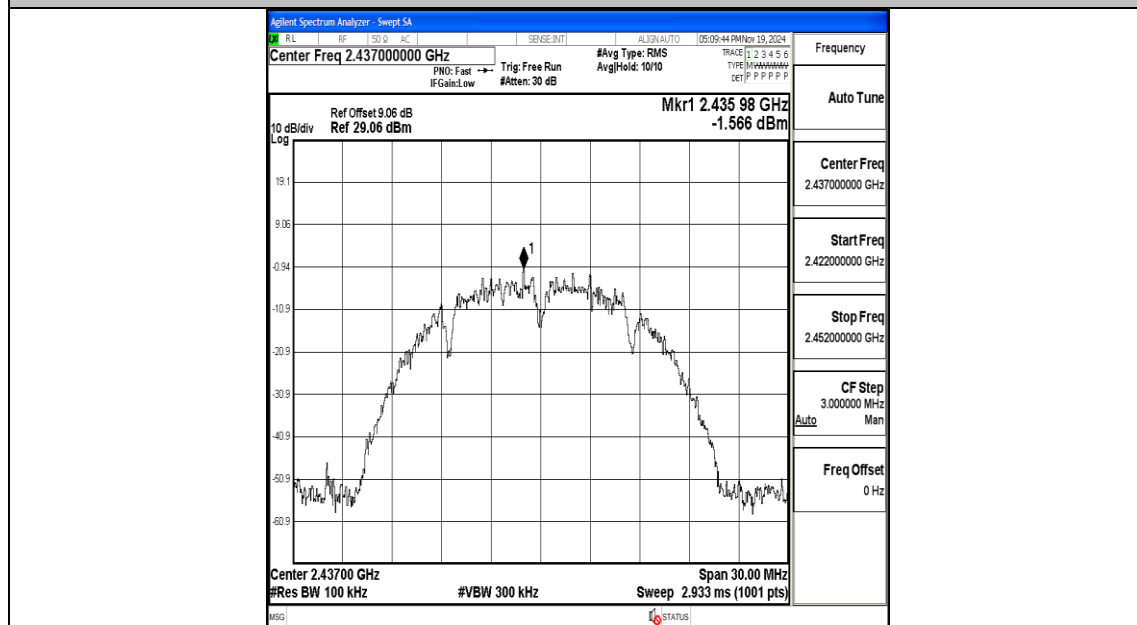
Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-1.82	-1.82	---	PASS
11B	Ant1	2412	30~1000	-1.82	-72.63	≤-31.82	PASS
11B	Ant1	2412	1000~26500	-1.82	-55.94	≤-31.82	PASS
11B	Ant1	2437	0~Reference	-1.57	-1.57	---	PASS
11B	Ant1	2437	30~1000	-1.57	-72.62	≤-31.57	PASS
11B	Ant1	2437	1000~26500	-1.57	-54.03	≤-31.57	PASS
11B	Ant1	2462	0~Reference	-3.12	-3.12	---	PASS
11B	Ant1	2462	30~1000	-3.12	-72.01	≤-33.12	PASS
11B	Ant1	2462	1000~26500	-3.12	-54.89	≤-33.12	PASS
11G	Ant1	2412	0~Reference	-3.23	-3.23	---	PASS
11G	Ant1	2412	30~1000	-3.23	-72.94	≤-33.23	PASS
11G	Ant1	2412	1000~26500	-3.23	-55.57	≤-33.23	PASS
11G	Ant1	2437	0~Reference	-5.03	-5.03	---	PASS
11G	Ant1	2437	30~1000	-5.03	-72.23	≤-35.03	PASS
11G	Ant1	2437	1000~26500	-5.03	-55.34	≤-35.03	PASS
11G	Ant1	2462	0~Reference	-3.82	-3.82	---	PASS
11G	Ant1	2462	30~1000	-3.82	-70.52	≤-33.82	PASS
11G	Ant1	2462	1000~26500	-3.82	-55.17	≤-33.82	PASS
11N20SISO	Ant1	2412	0~Reference	-4.42	-4.42	---	PASS
11N20SISO	Ant1	2412	30~1000	-4.42	-71.52	≤-34.42	PASS
11N20SISO	Ant1	2412	1000~26500	-4.42	-55.59	≤-34.42	PASS
11N20SISO	Ant1	2437	0~Reference	-4.38	-4.38	---	PASS
11N20SISO	Ant1	2437	30~1000	-4.38	-72.66	≤-34.38	PASS
11N20SISO	Ant1	2437	1000~26500	-4.38	-55.22	≤-34.38	PASS
11N20SISO	Ant1	2462	0~Reference	-5.22	-5.22	---	PASS
11N20SISO	Ant1	2462	30~1000	-5.22	-72.47	≤-35.22	PASS
11N20SISO	Ant1	2462	1000~26500	-5.22	-55.49	≤-35.22	PASS
11N40SISO	Ant1	2422	0~Reference	-4.90	-4.90	---	PASS
11N40SISO	Ant1	2422	30~1000	-4.90	-72.92	≤-34.9	PASS
11N40SISO	Ant1	2422	1000~26500	-4.90	-55.24	≤-34.9	PASS
11N40SISO	Ant1	2437	0~Reference	-5.71	-5.71	---	PASS
11N40SISO	Ant1	2437	30~1000	-5.71	-72.2	≤-35.71	PASS
11N40SISO	Ant1	2437	1000~26500	-5.71	-55.57	≤-35.71	PASS
11N40SISO	Ant1	2452	0~Reference	-5.98	-5.98	---	PASS
11N40SISO	Ant1	2452	30~1000	-5.98	-73.03	≤-35.98	PASS
11N40SISO	Ant1	2452	1000~26500	-5.98	-55.14	≤-35.98	PASS

Test Graphs

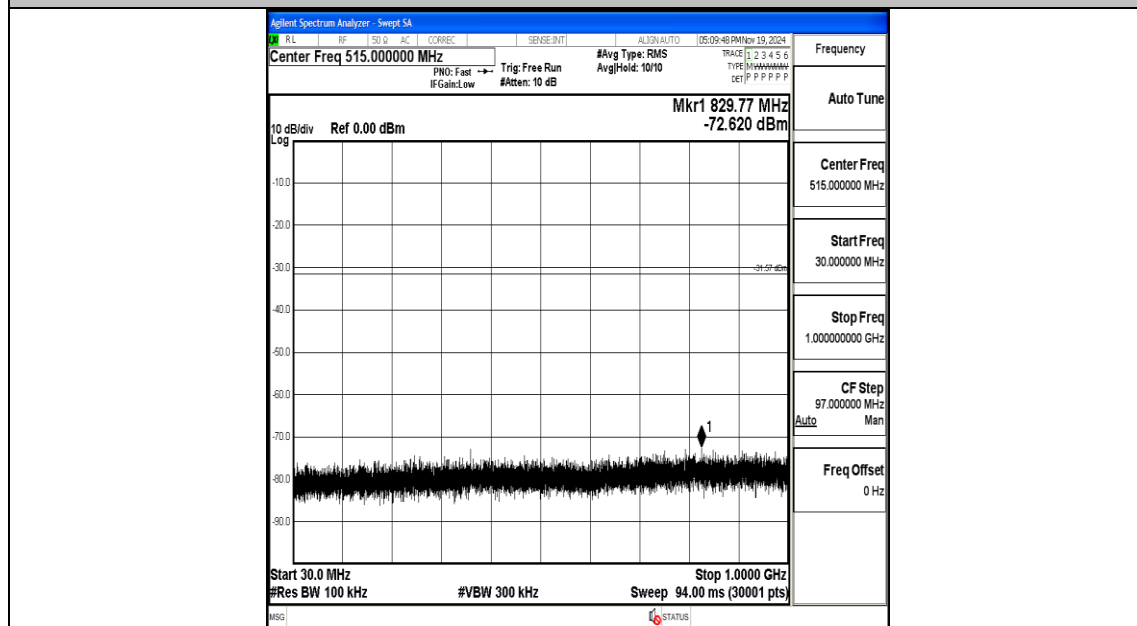




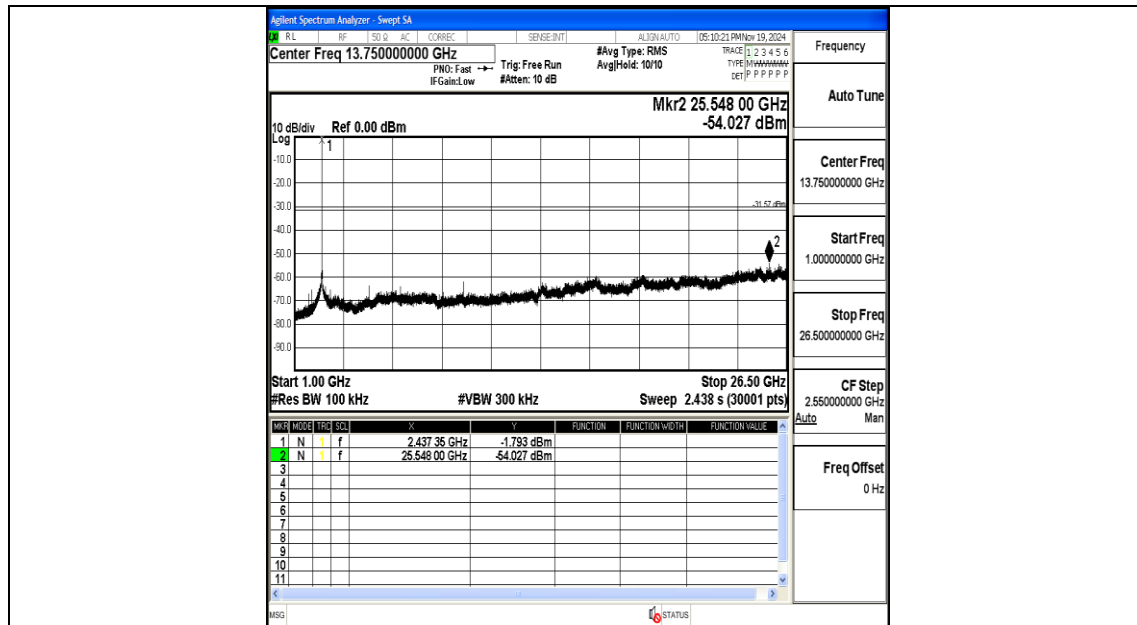
11B-Ant1-2412-1000~26500-PASS



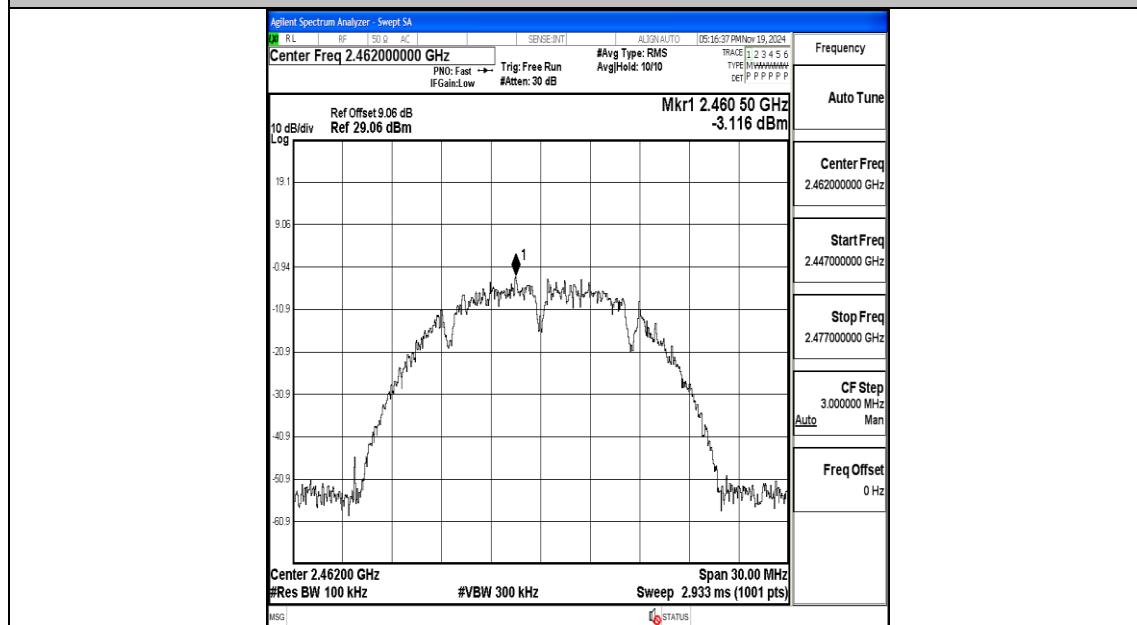
11B-Ant1-2437-0~Reference-PASS



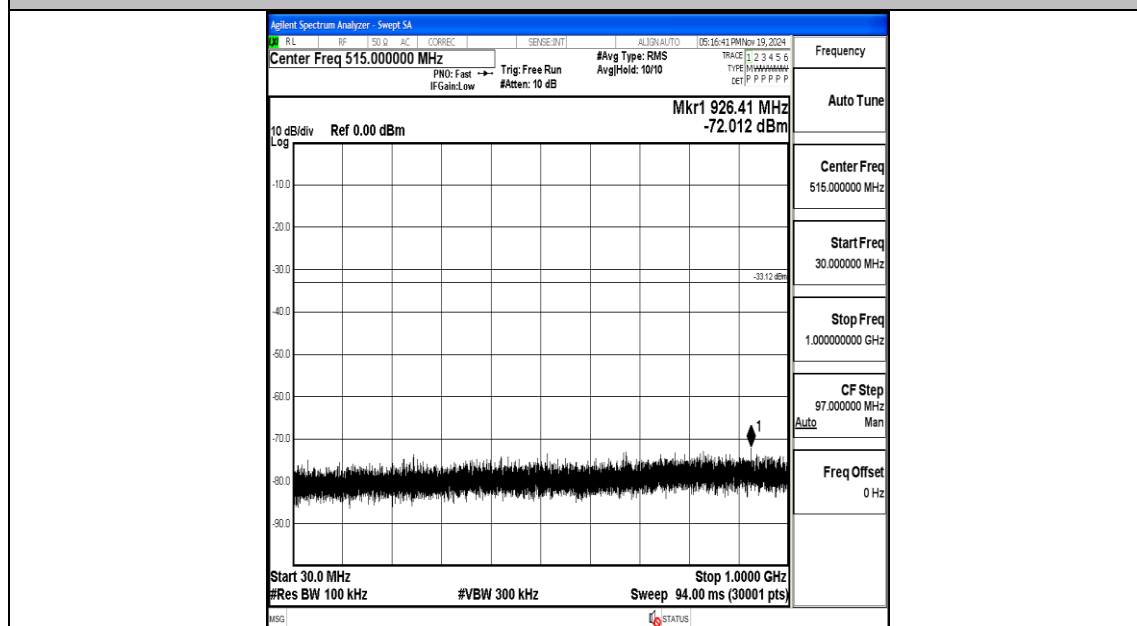
11B-Ant1-2437-30~1000-PASS



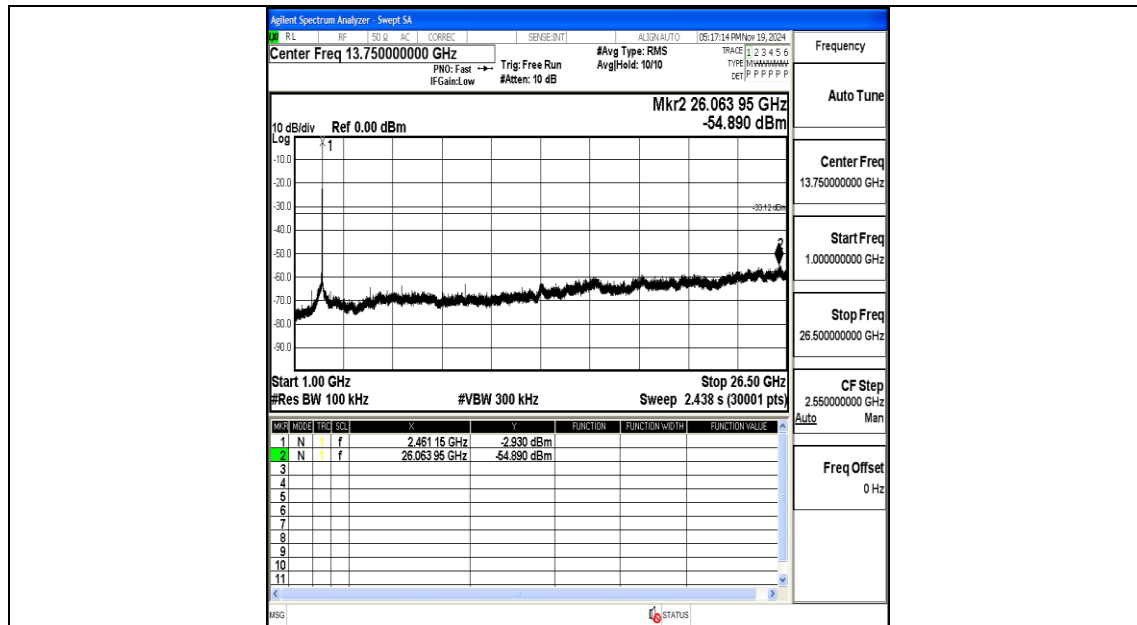
11B-Ant1-2437-1000~26500-PASS



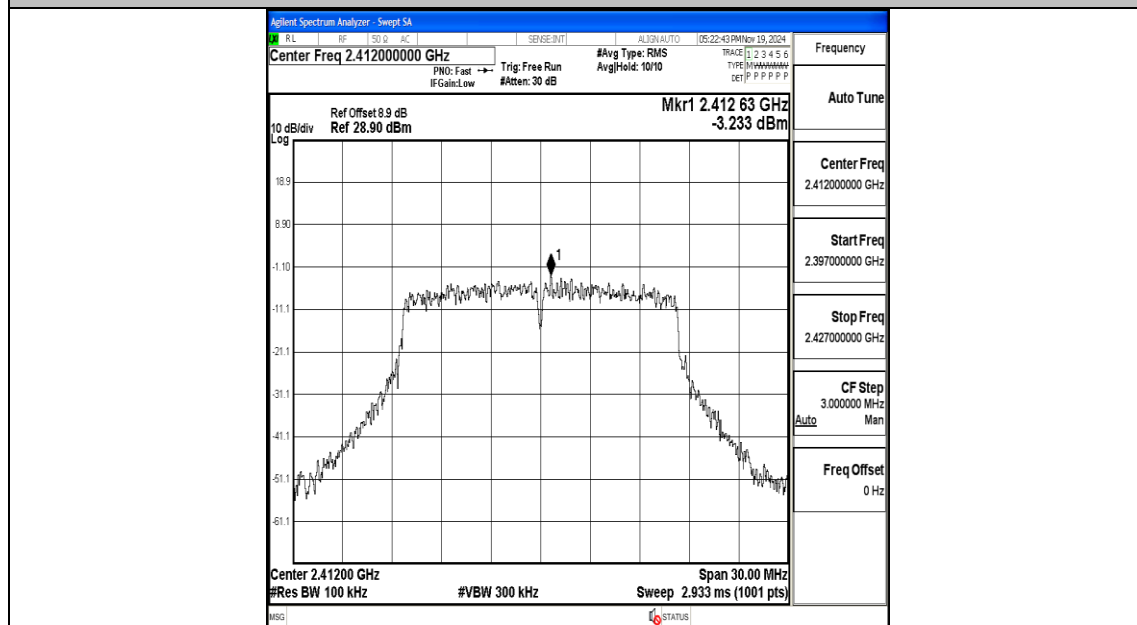
11B-Ant1-2462-0~Reference-PASS



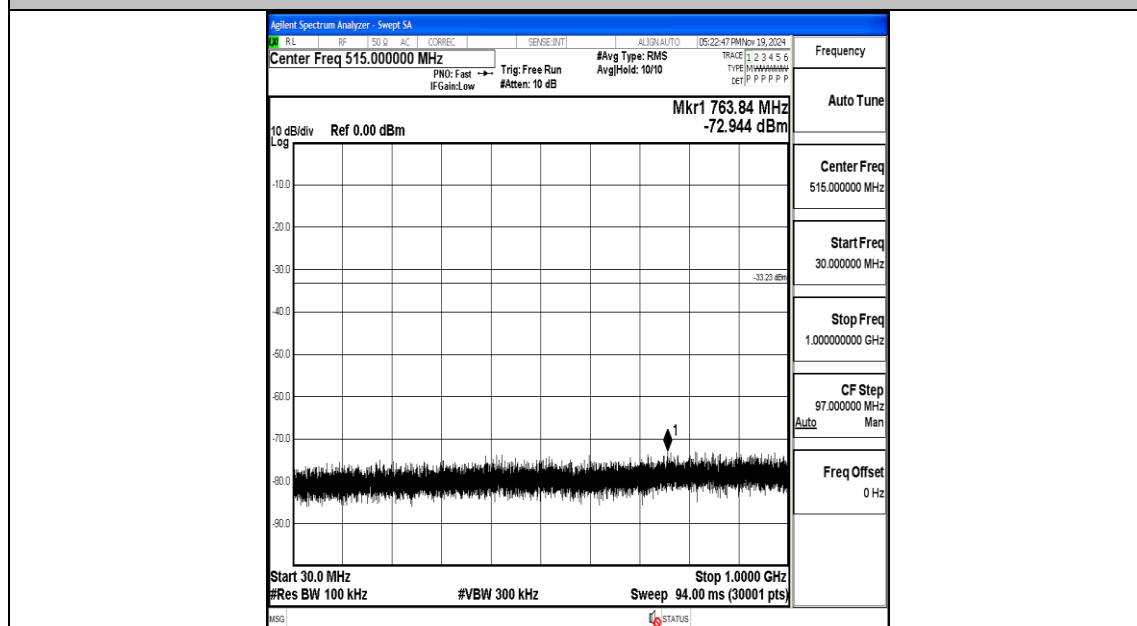
11B-Ant1-2462-30~1000-PASS



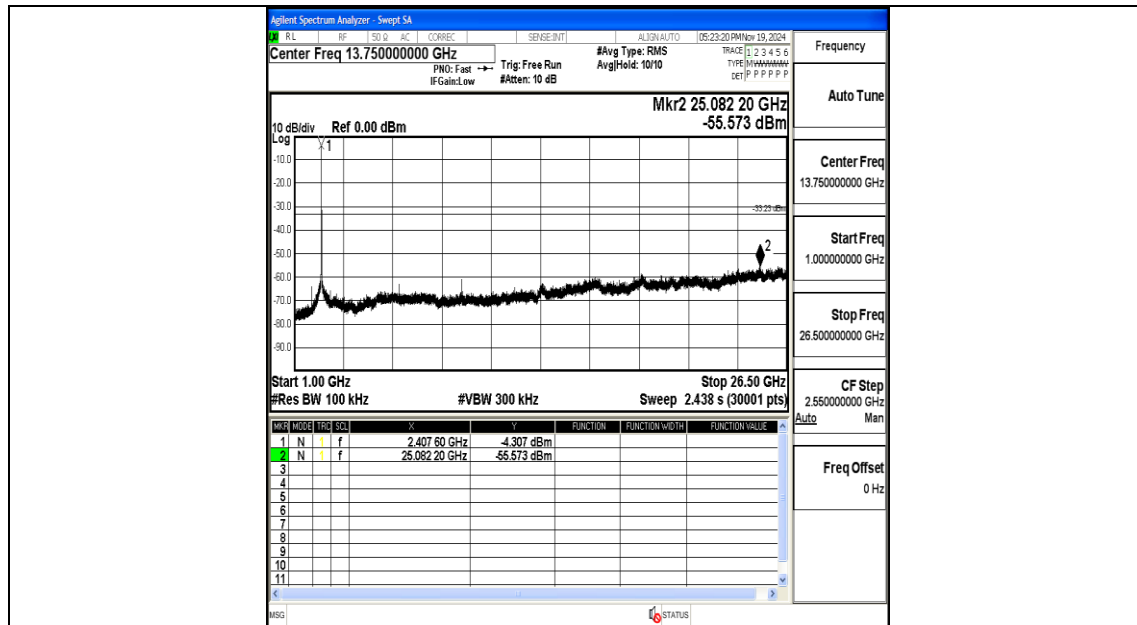
11B-Ant1-2462-1000~26500-PASS



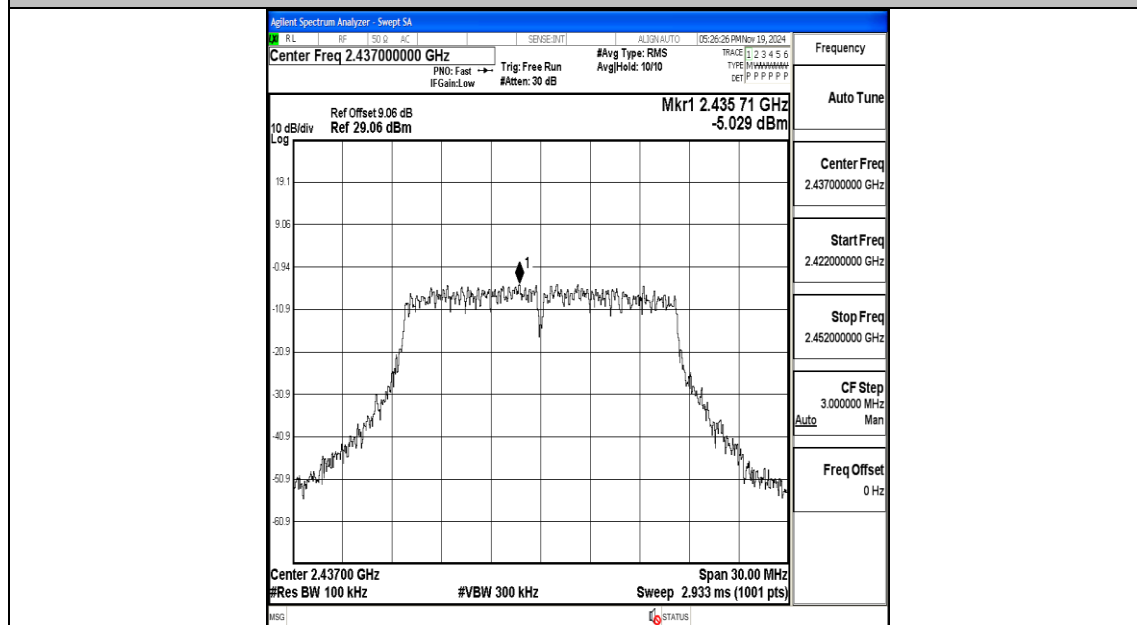
11G-Ant1-2412-0~Reference-PASS



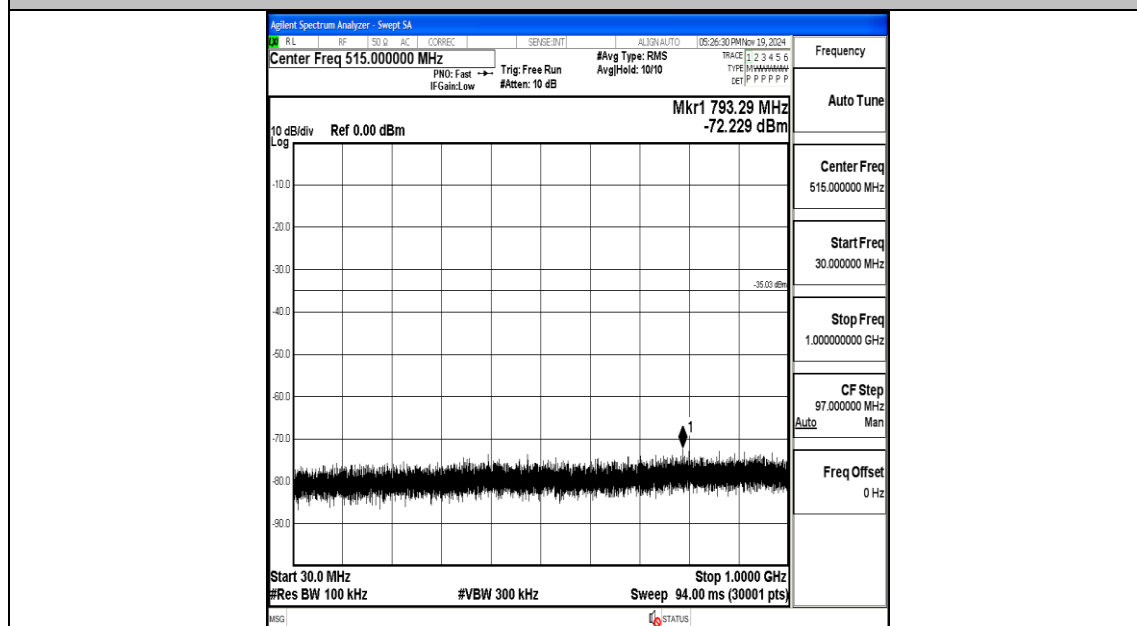
11G-Ant1-2412-30~1000-PASS



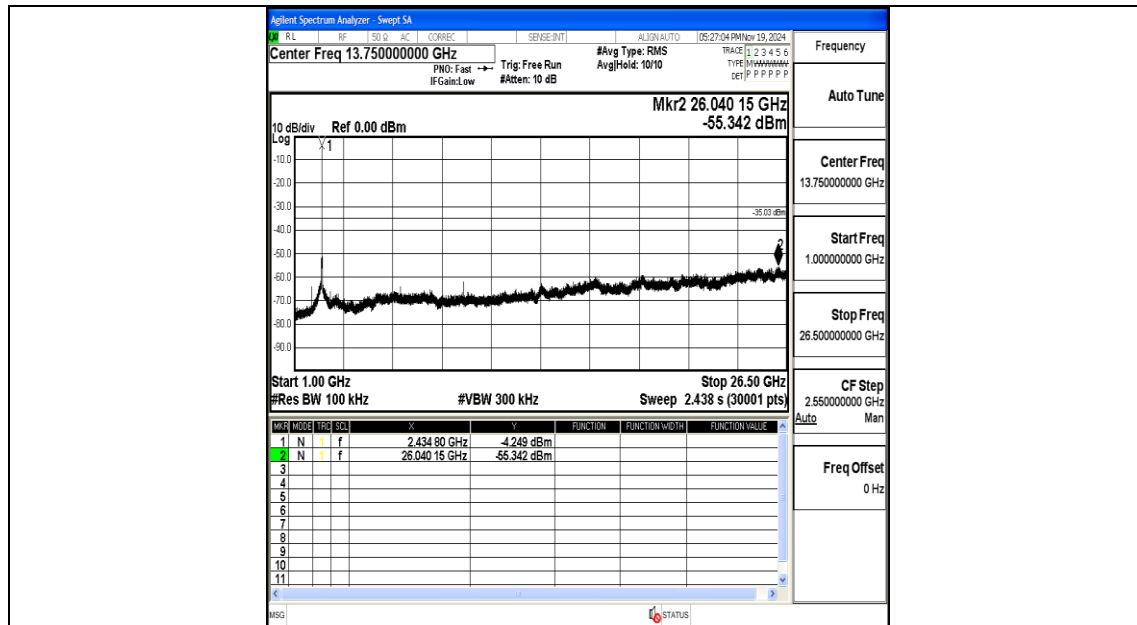
11G-Ant1-2412-1000~26500-PASS



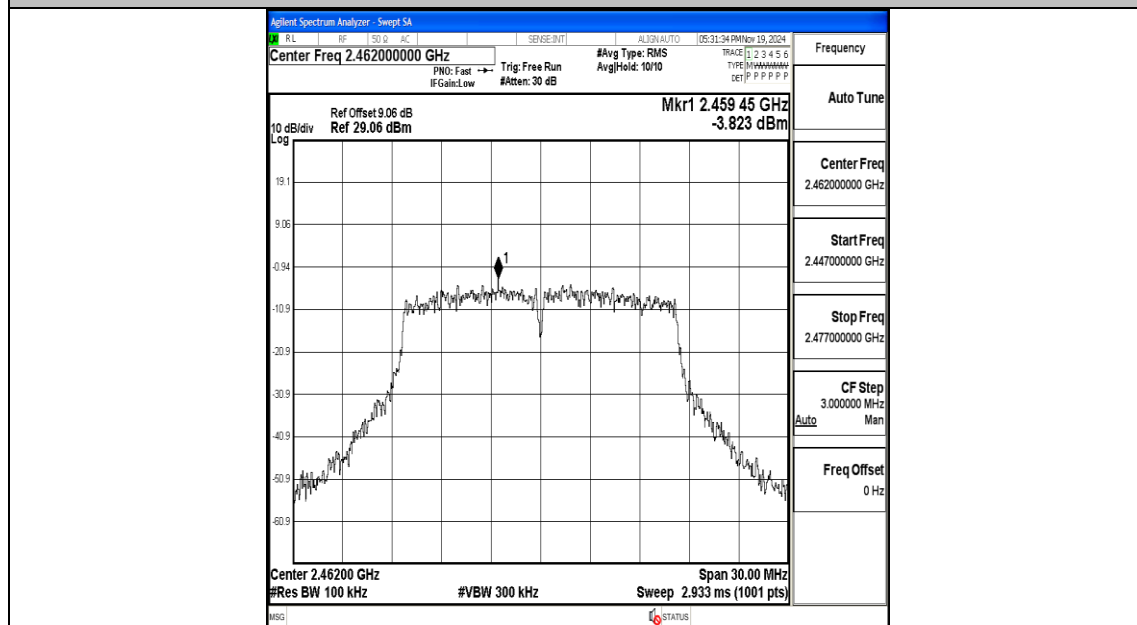
11G-Ant1-2437-0~Reference-PASS



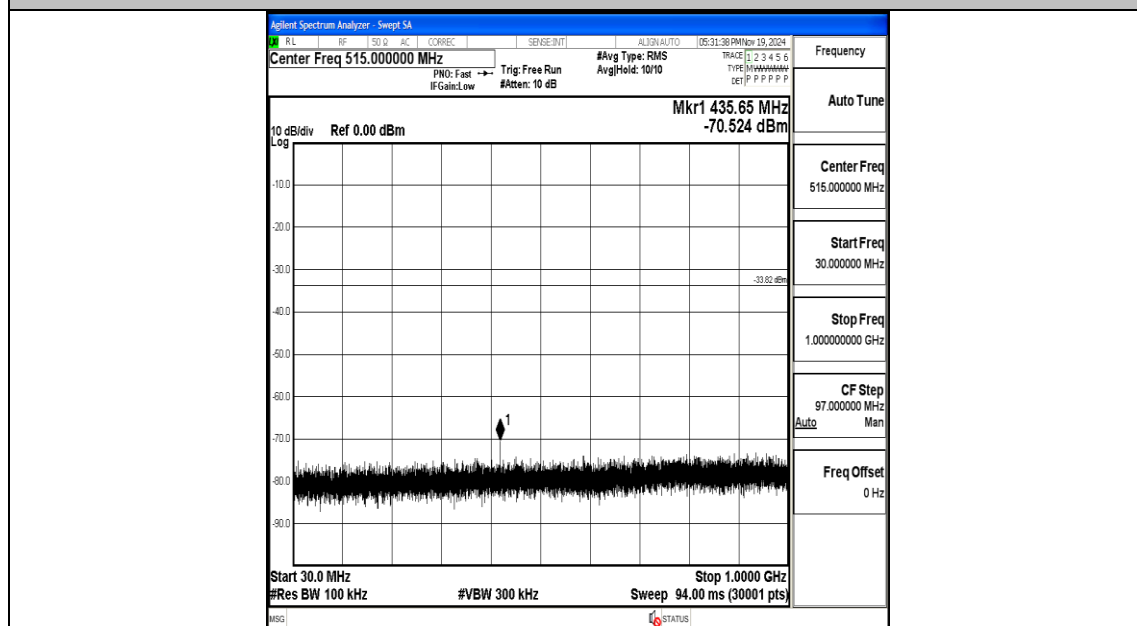
11G-Ant1-2437-30~1000-PASS



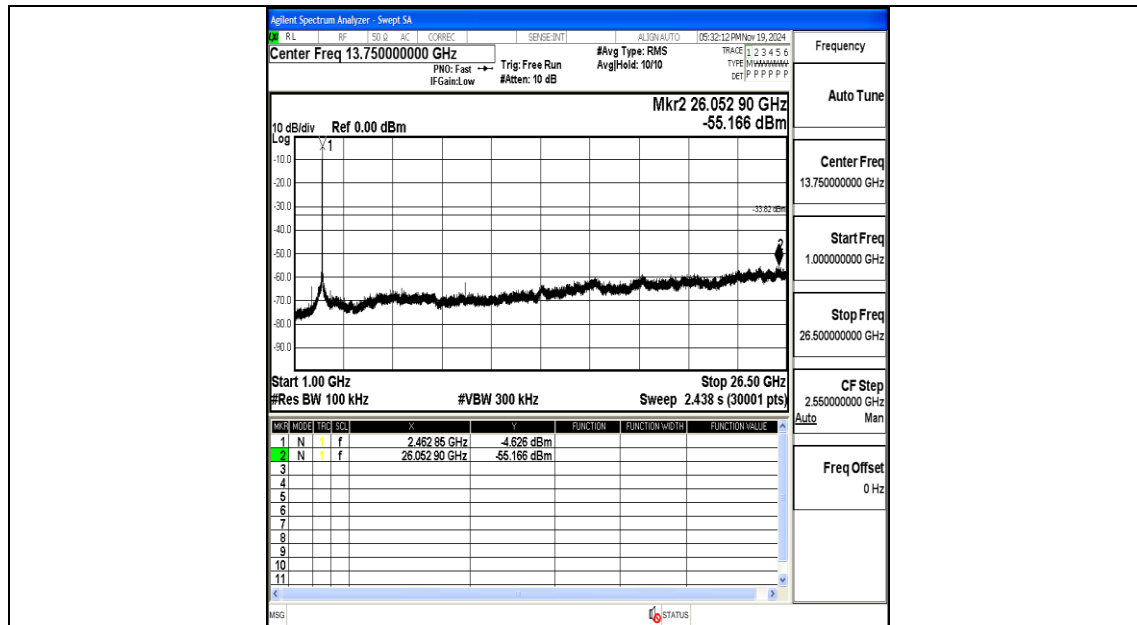
11G-Ant1-2437-1000~26500-PASS



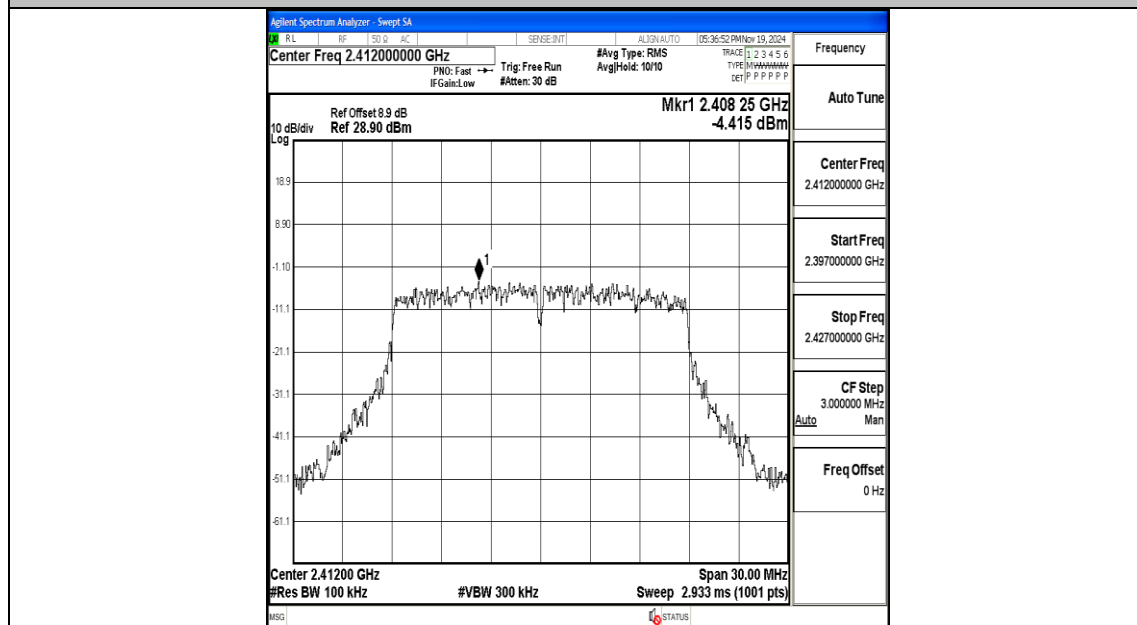
11G-Ant1-2462-0~Reference-PASS



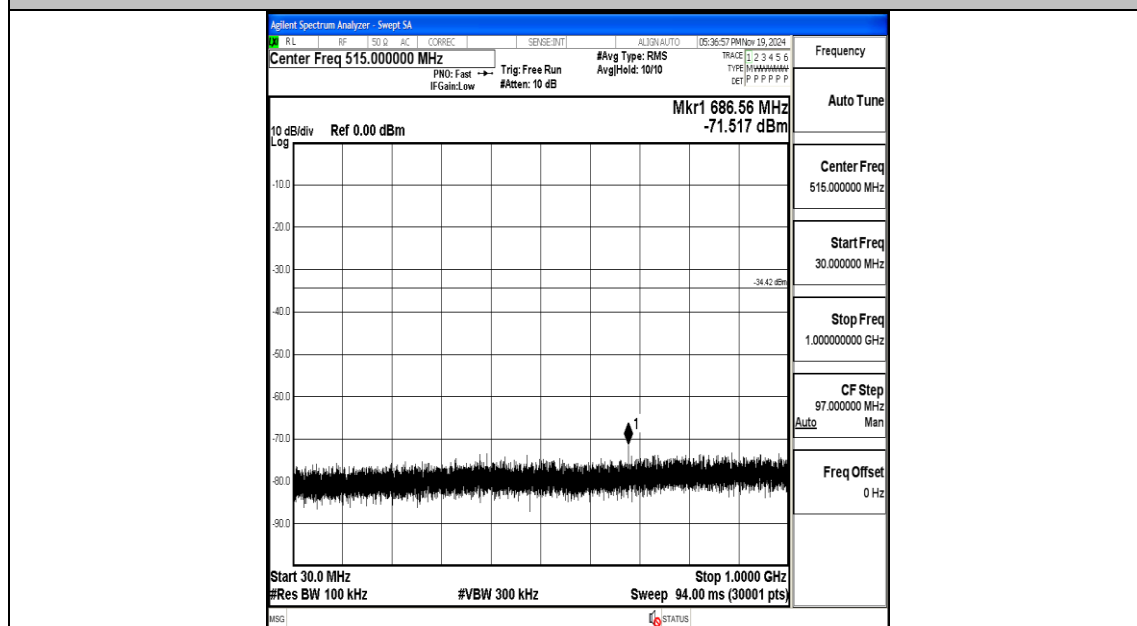
11G-Ant1-2462-30~1000-PASS



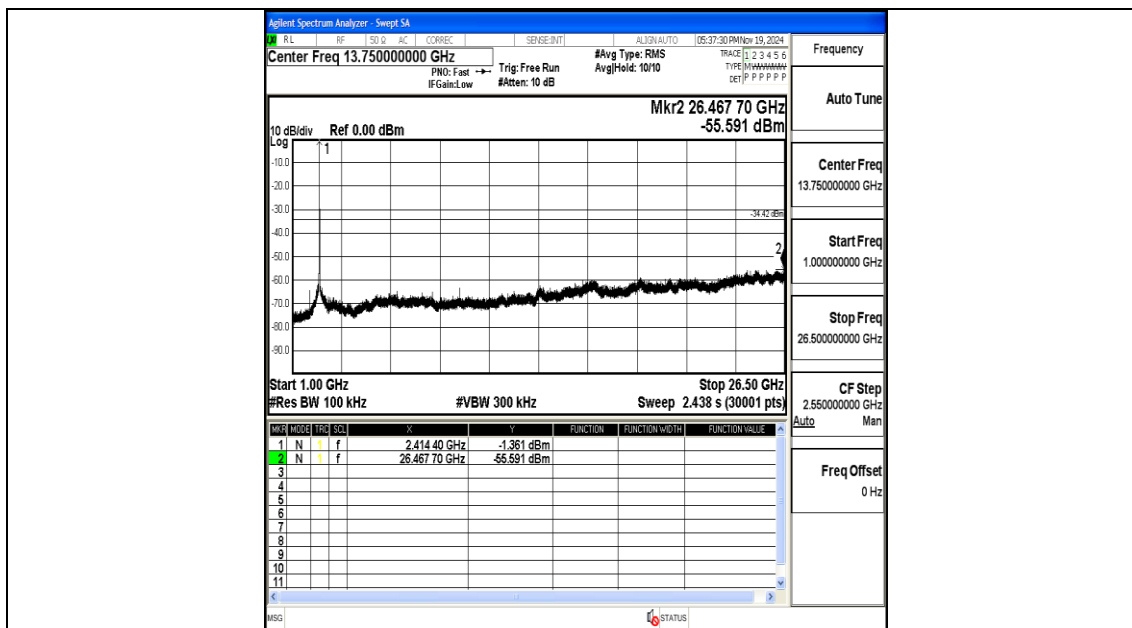
11G-Ant1-2462-1000~26500-PASS



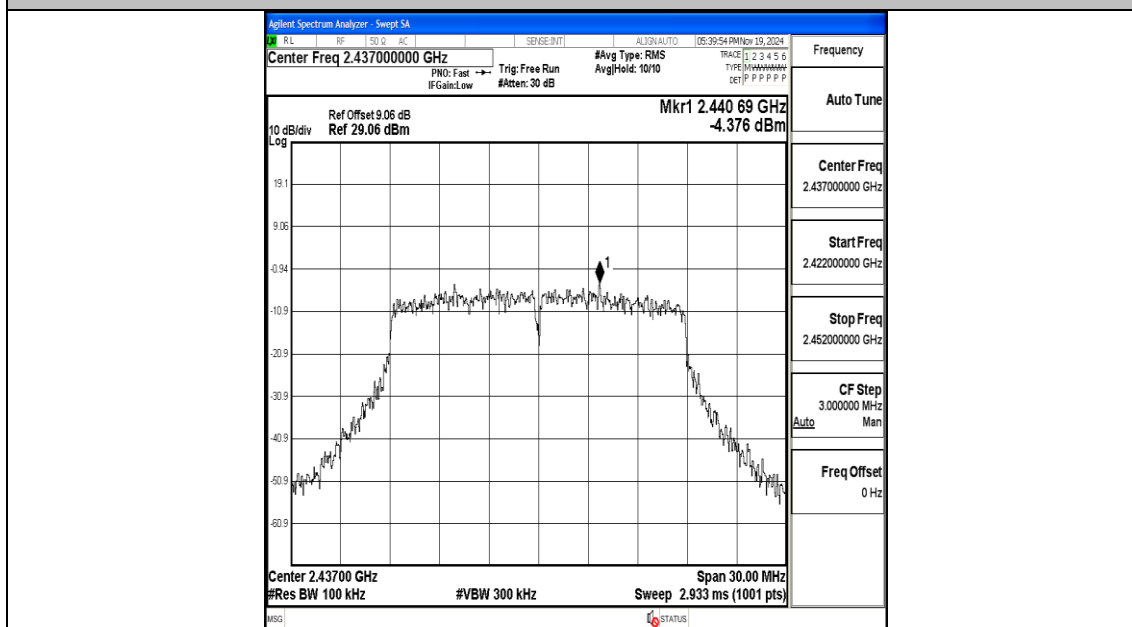
11N20SISO-Ant1-2412-0~Reference-PASS



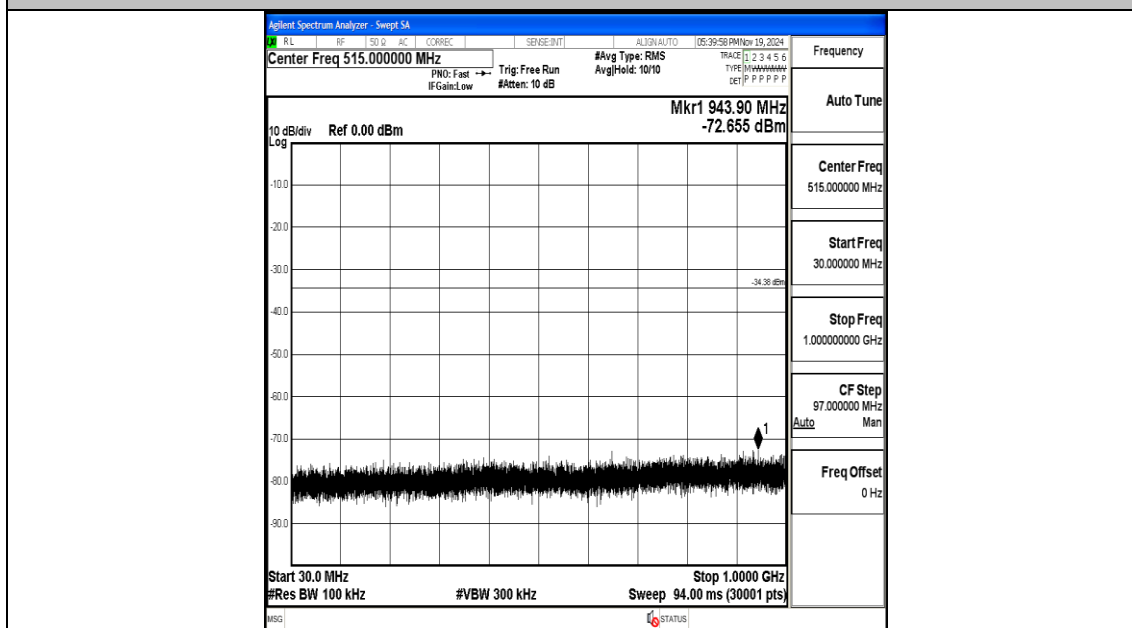
11N20SISO-Ant1-2412-30~1000-PASS



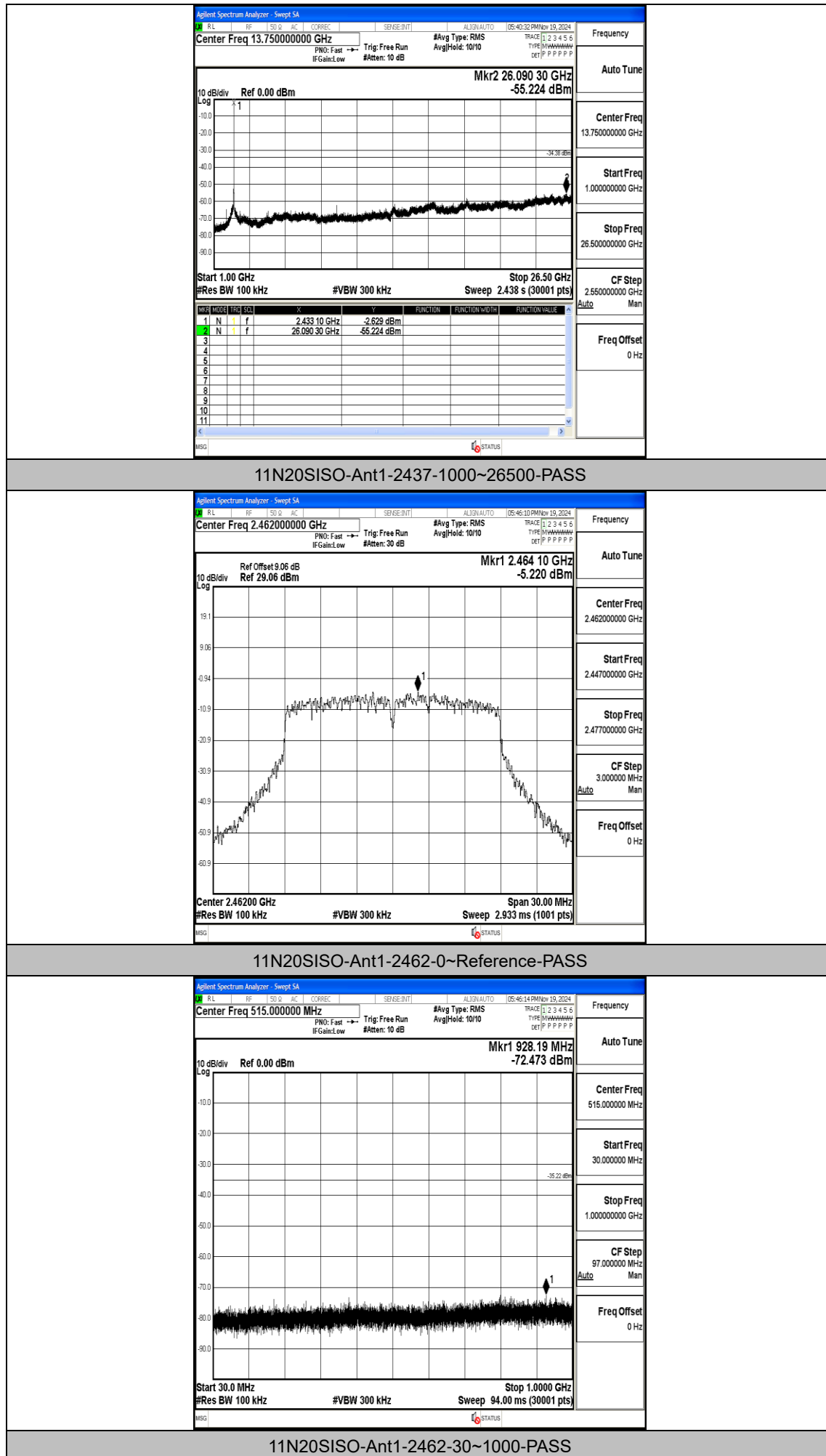
11N20SISO-Ant1-2412-1000~26500-PASS

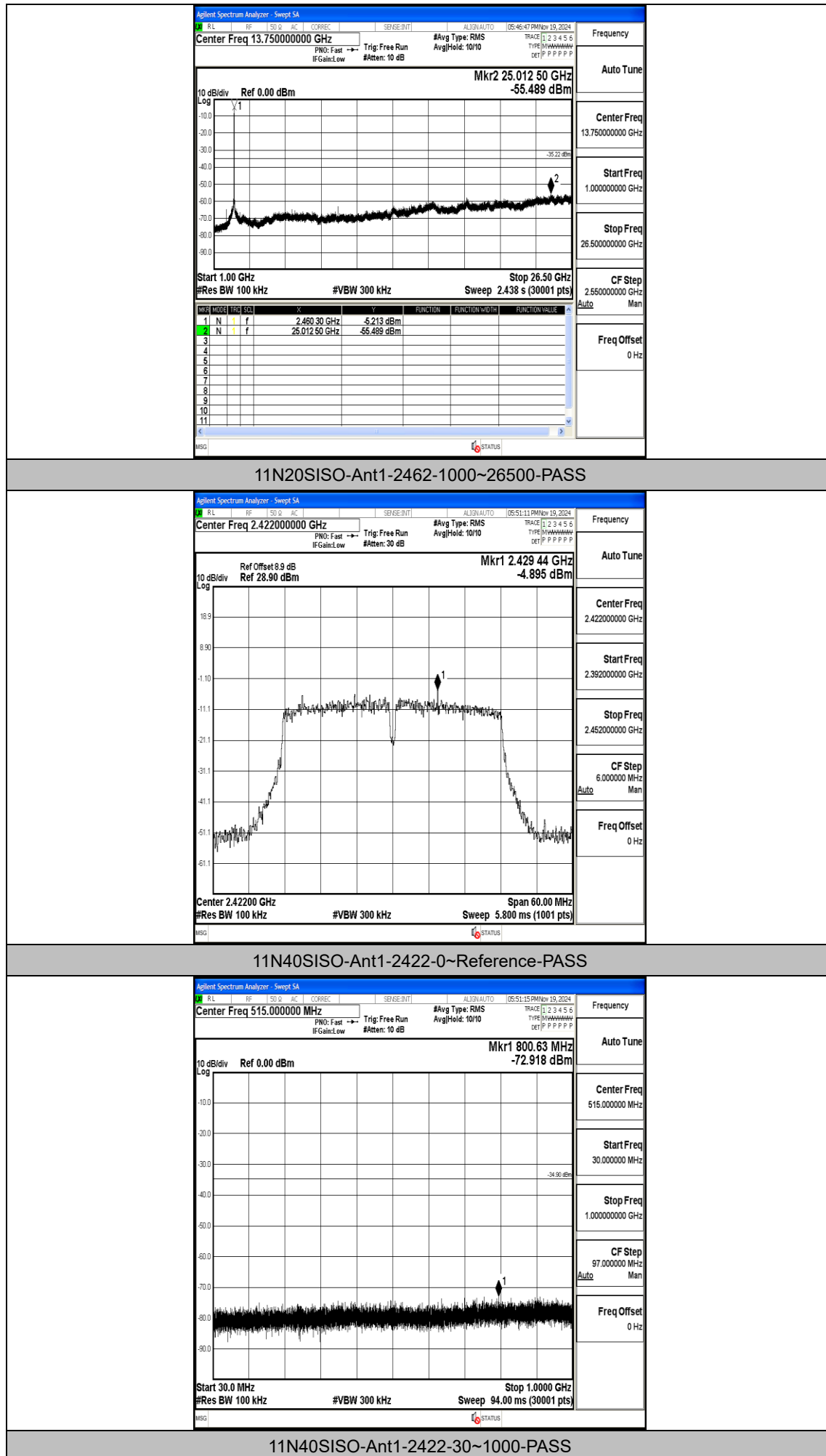


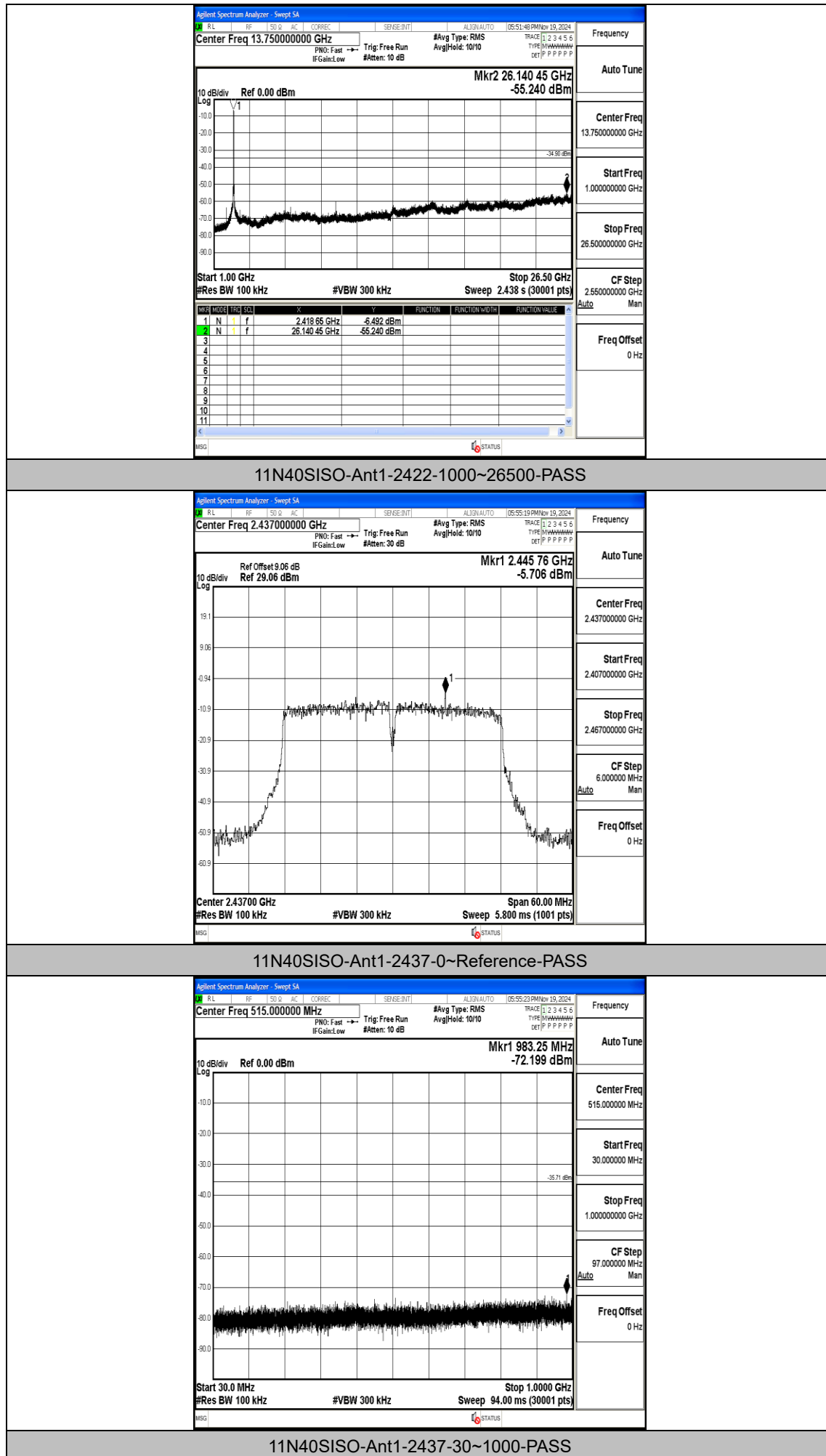
11N20SISO-Ant1-2437-0~Reference-PASS

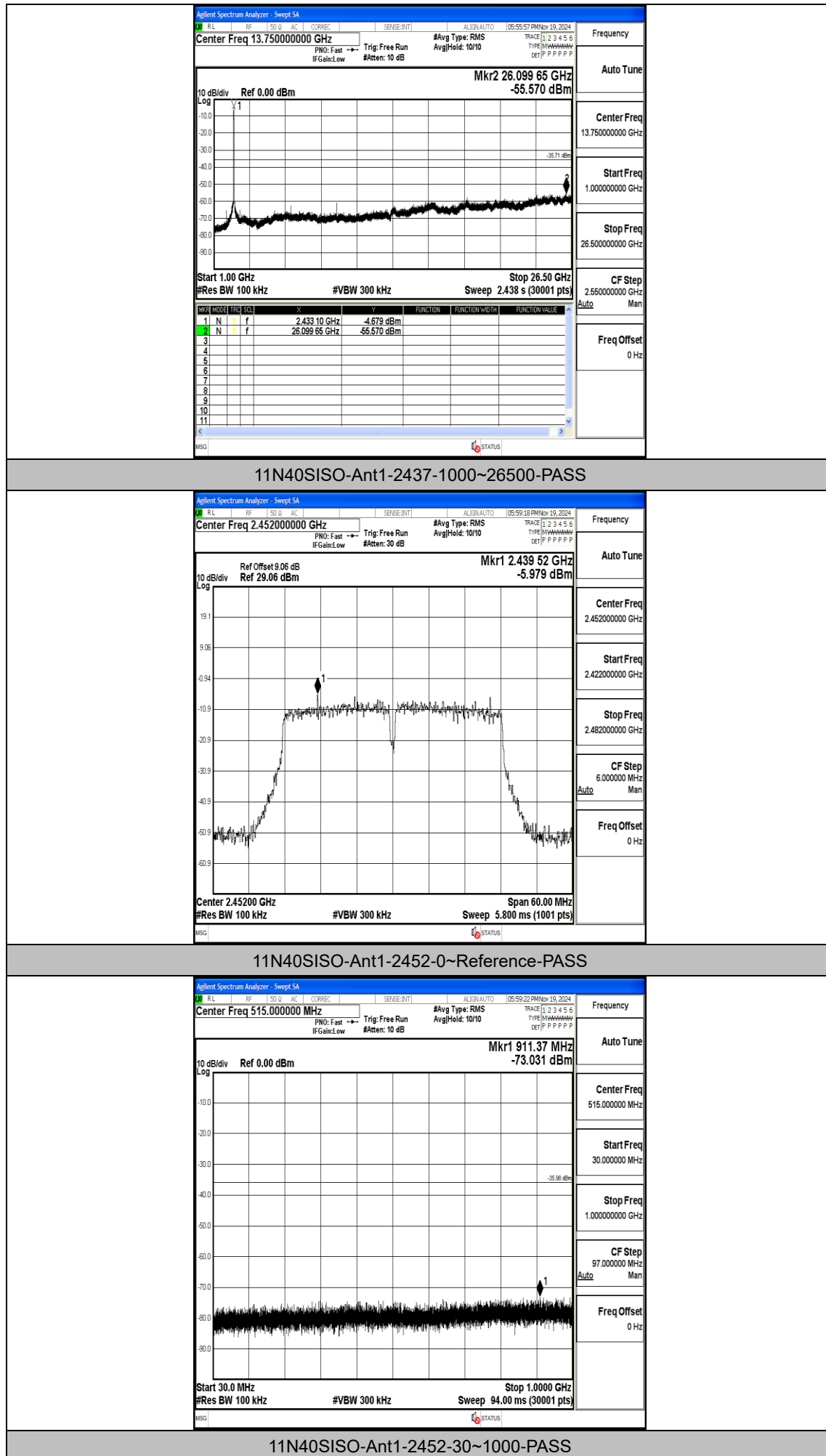


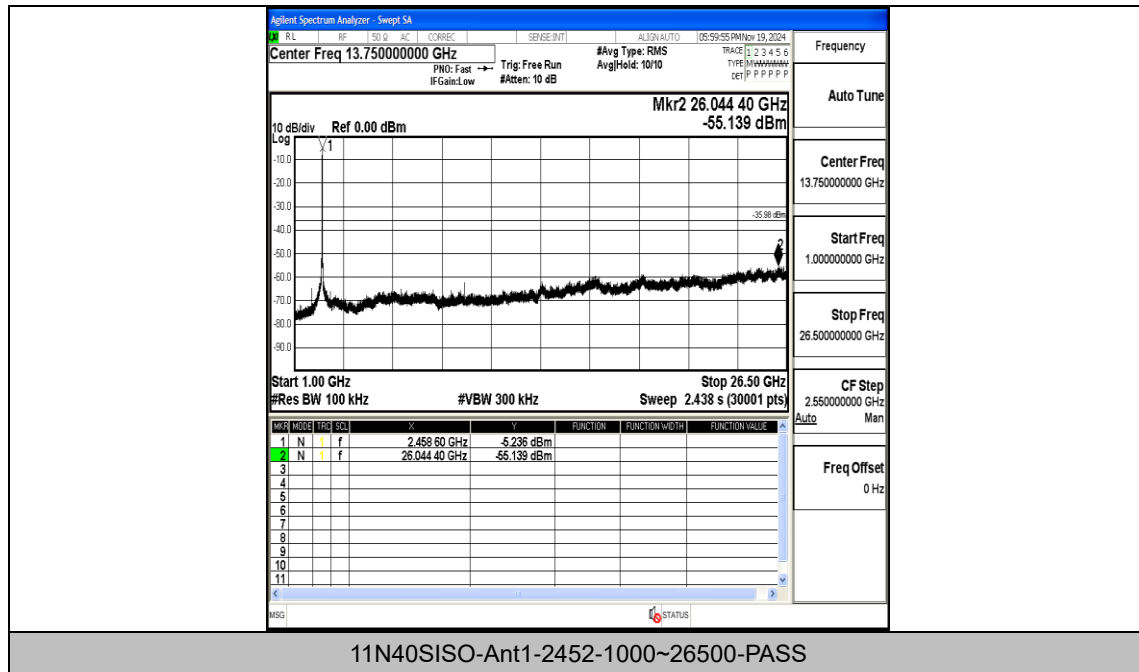
11N20SISO-Ant1-2437-30~1000-PASS









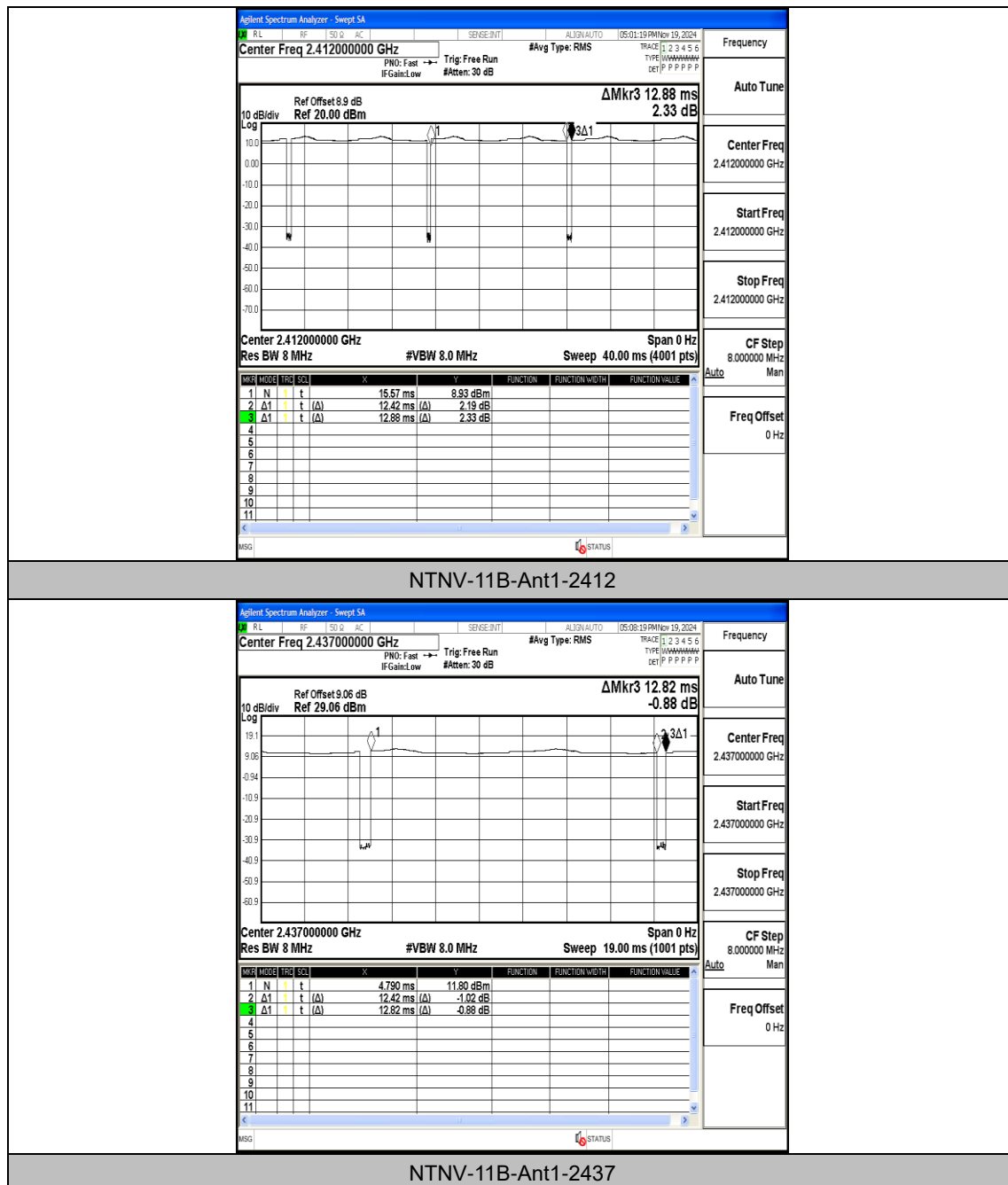


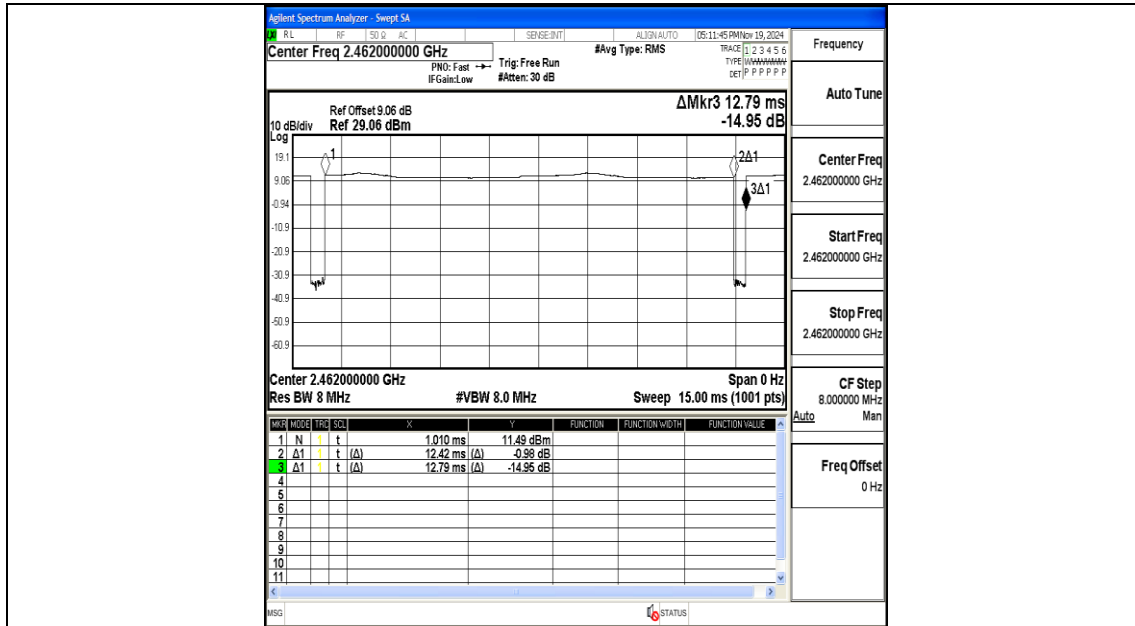
Appendix G: Duty Cycle

Test Result

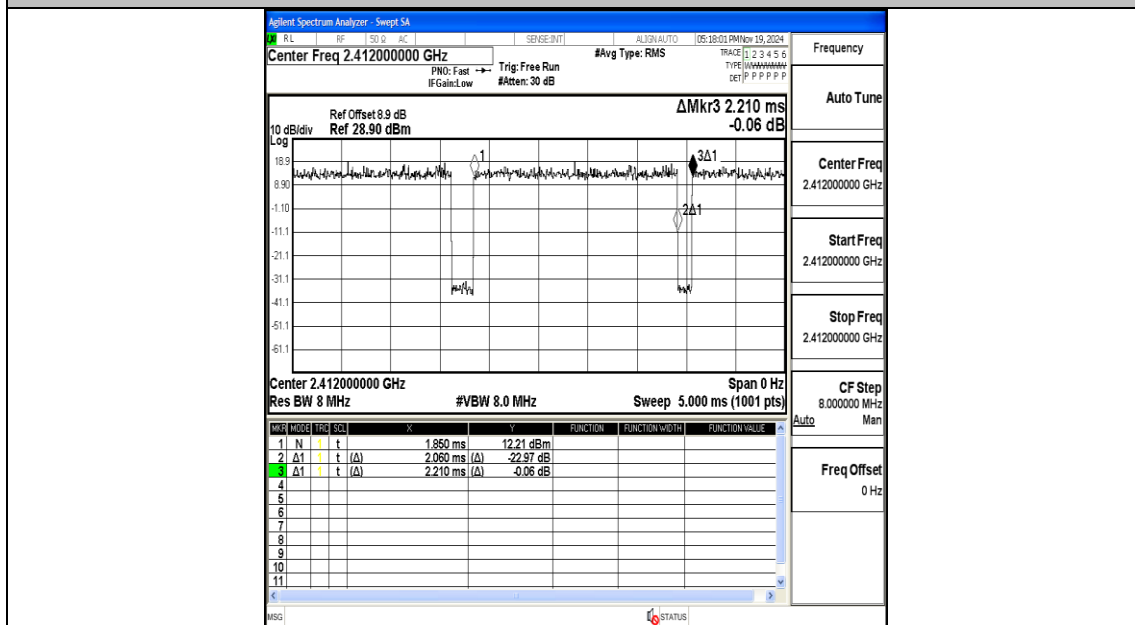
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.88	96.43	0.16
11B	Ant1	2437	12.42	12.82	96.88	0.14
11B	Ant1	2462	12.42	12.79	97.11	0.13
11G	Ant1	2412	2.06	2.21	93.21	0.31
11G	Ant1	2437	2.07	2.28	90.79	0.42
11G	Ant1	2462	2.06	2.17	94.93	0.23
11N20SISO	Ant1	2412	1.92	2.15	89.30	0.49
11N20SISO	Ant1	2437	1.92	2.10	91.43	0.39
11N20SISO	Ant1	2462	1.92	2.06	93.20	0.31
11N40SISO	Ant1	2422	0.94	1.09	86.24	0.64
11N40SISO	Ant1	2437	0.95	1.12	84.82	0.72
11N40SISO	Ant1	2452	0.95	1.15	82.61	0.83

Test Graphs

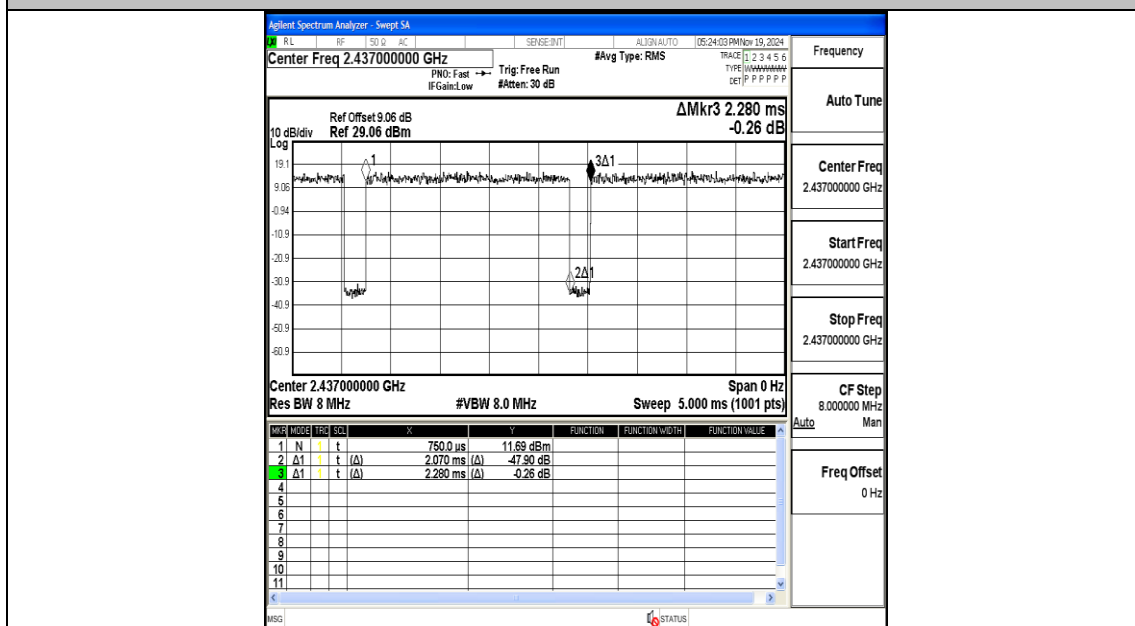




NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437

