

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

Product Name: PD flasher adapter

Trade Mark: /

Test Model: PD-100

FCC ID: 2BMKO-PD100

Environmental Conditions

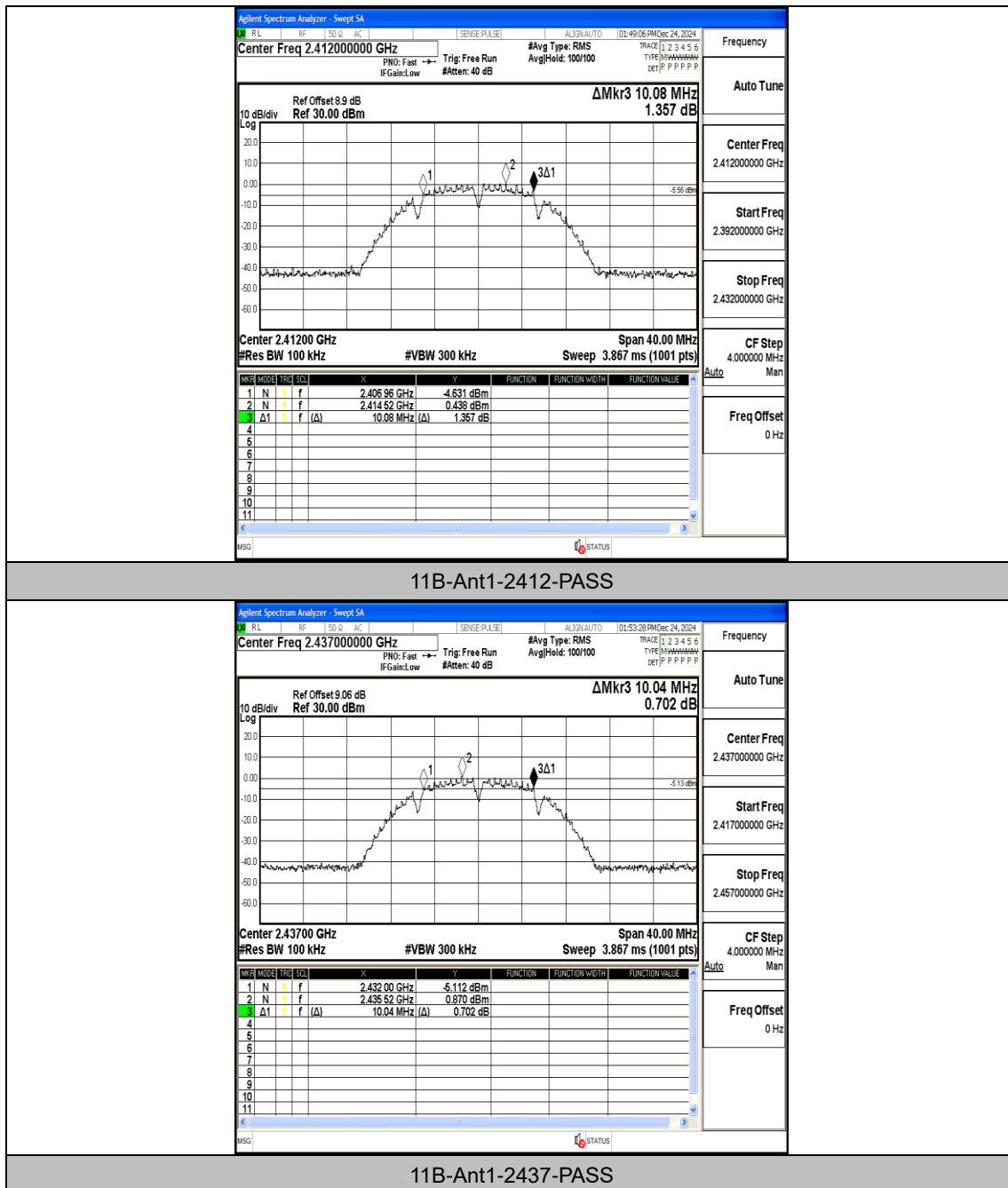
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

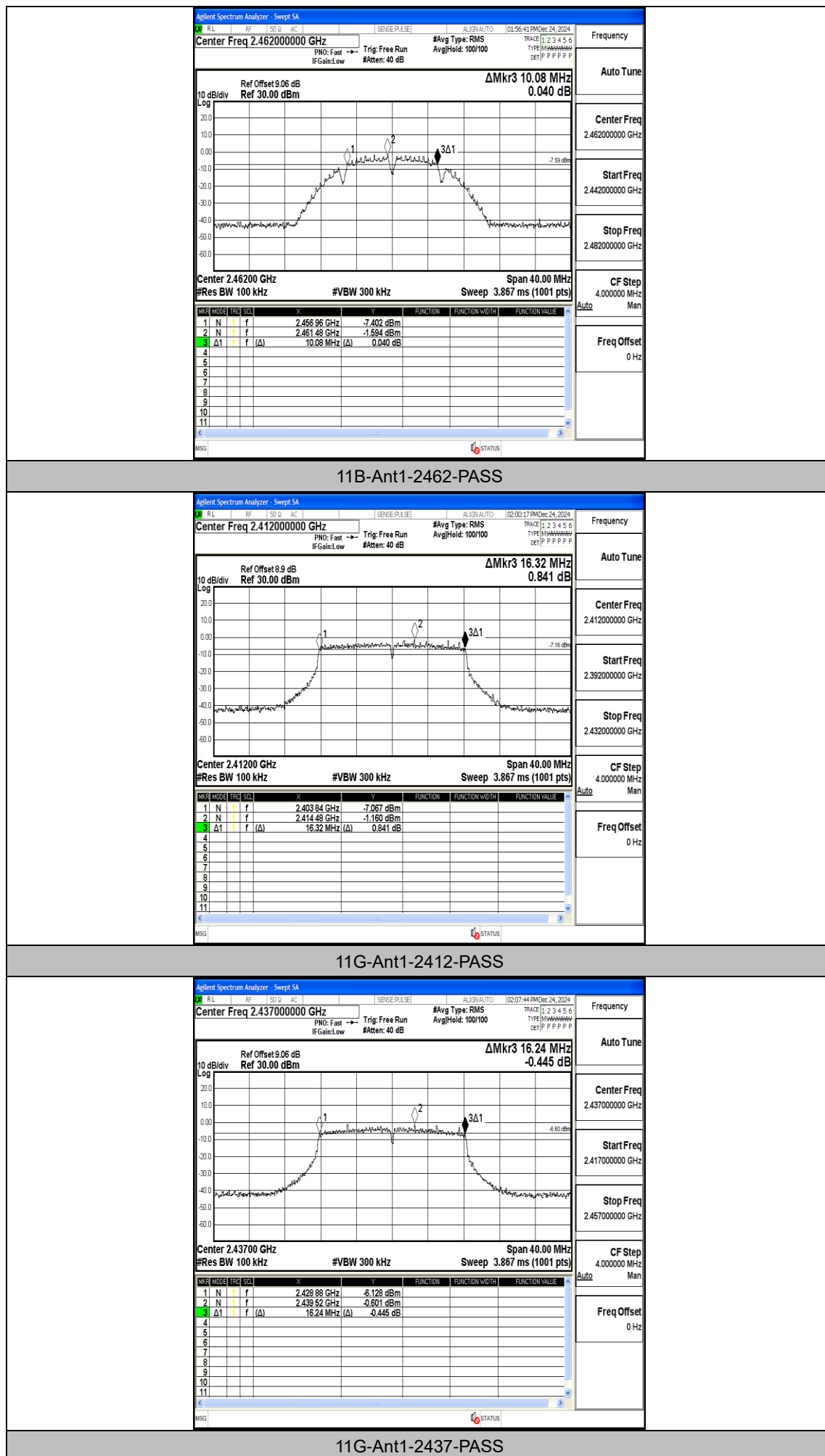
Appendix A: DTS Bandwidth

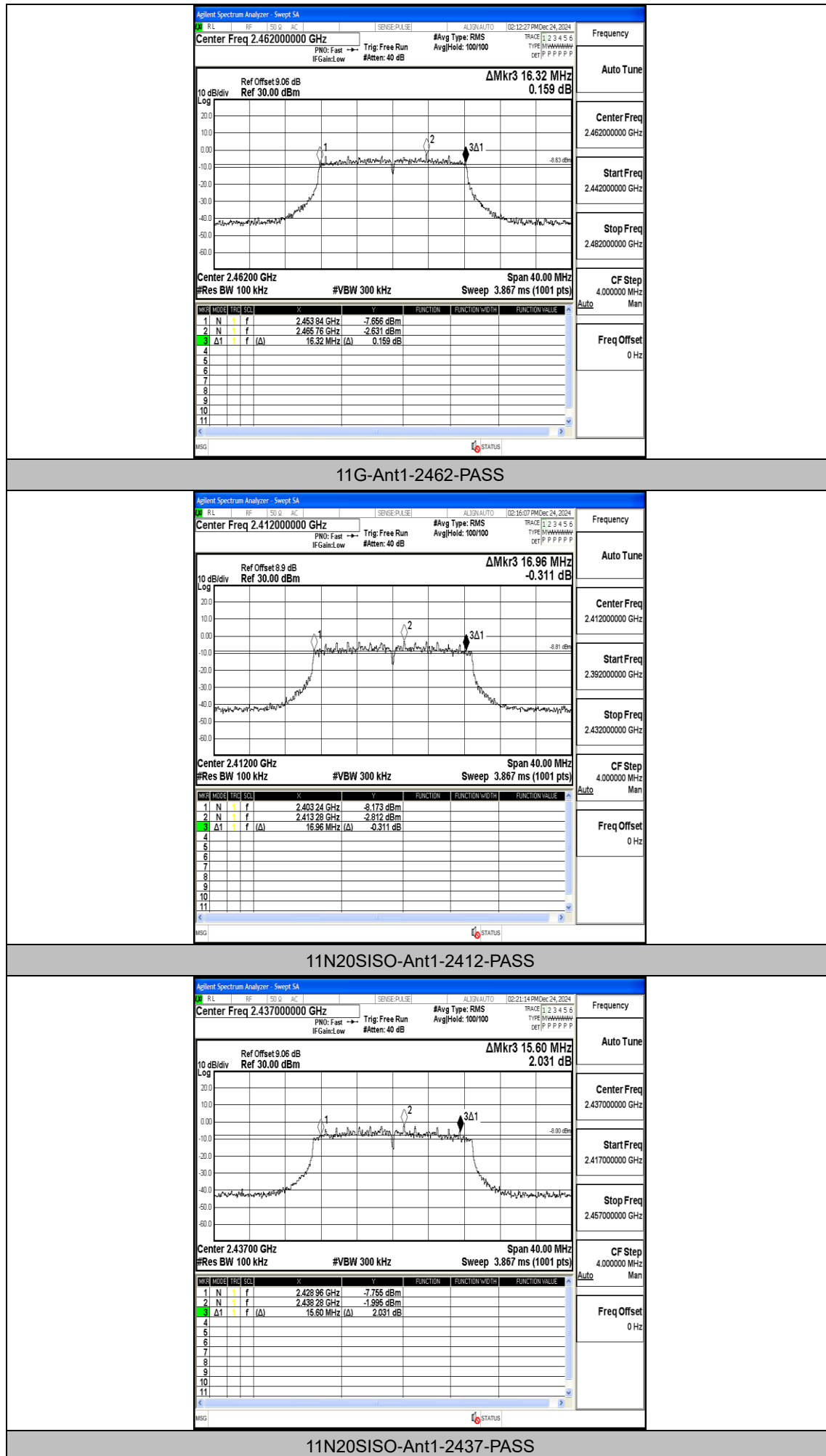
Test Result

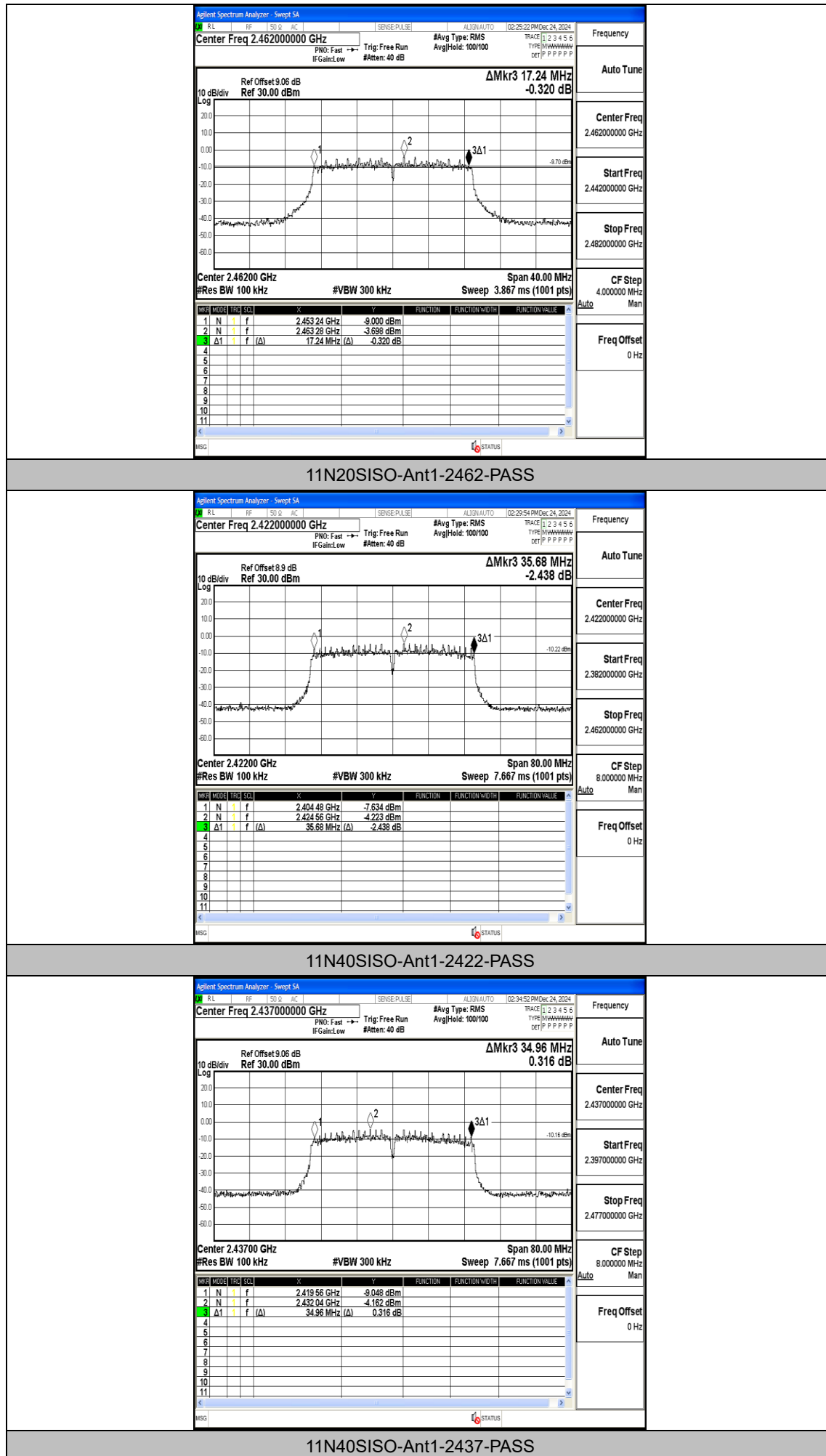
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant1	2437	10.040	2432.000	2442.040	0.5	PASS
11B	Ant1	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
11G	Ant1	2437	16.240	2428.880	2445.120	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.960	2403.240	2420.200	0.5	PASS
11N20SISO	Ant1	2437	15.600	2428.960	2444.560	0.5	PASS
11N20SISO	Ant1	2462	17.240	2453.240	2470.480	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.480	2440.160	0.5	PASS
11N40SISO	Ant1	2437	34.960	2419.560	2454.520	0.5	PASS
11N40SISO	Ant1	2452	35.360	2434.240	2469.600	0.5	PASS

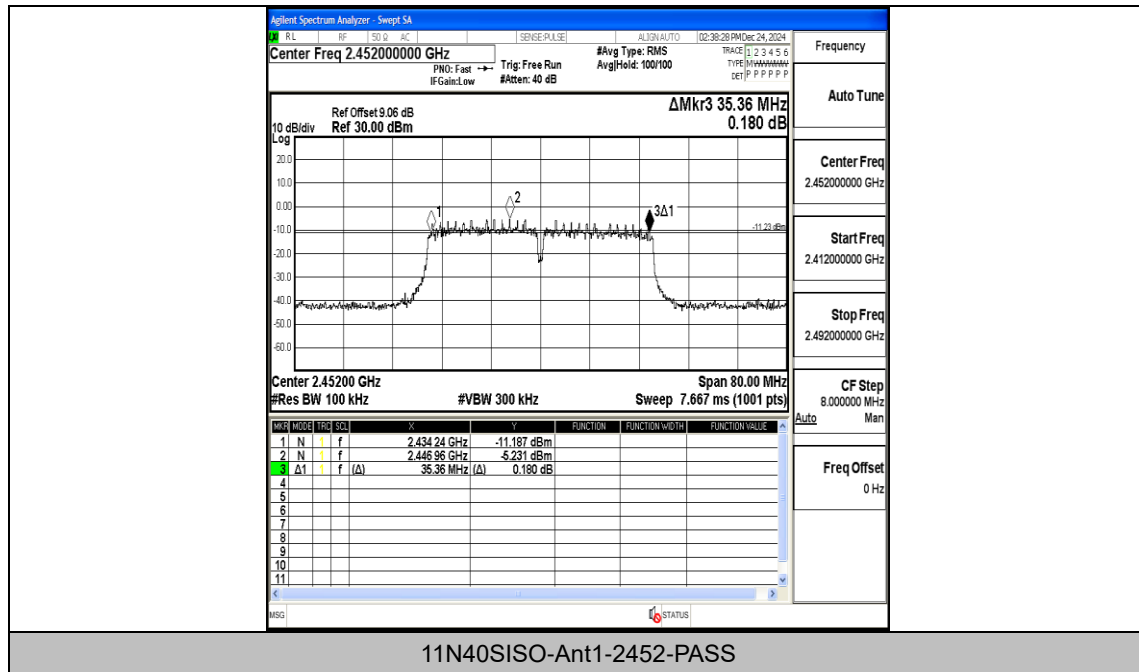
Test Graphs









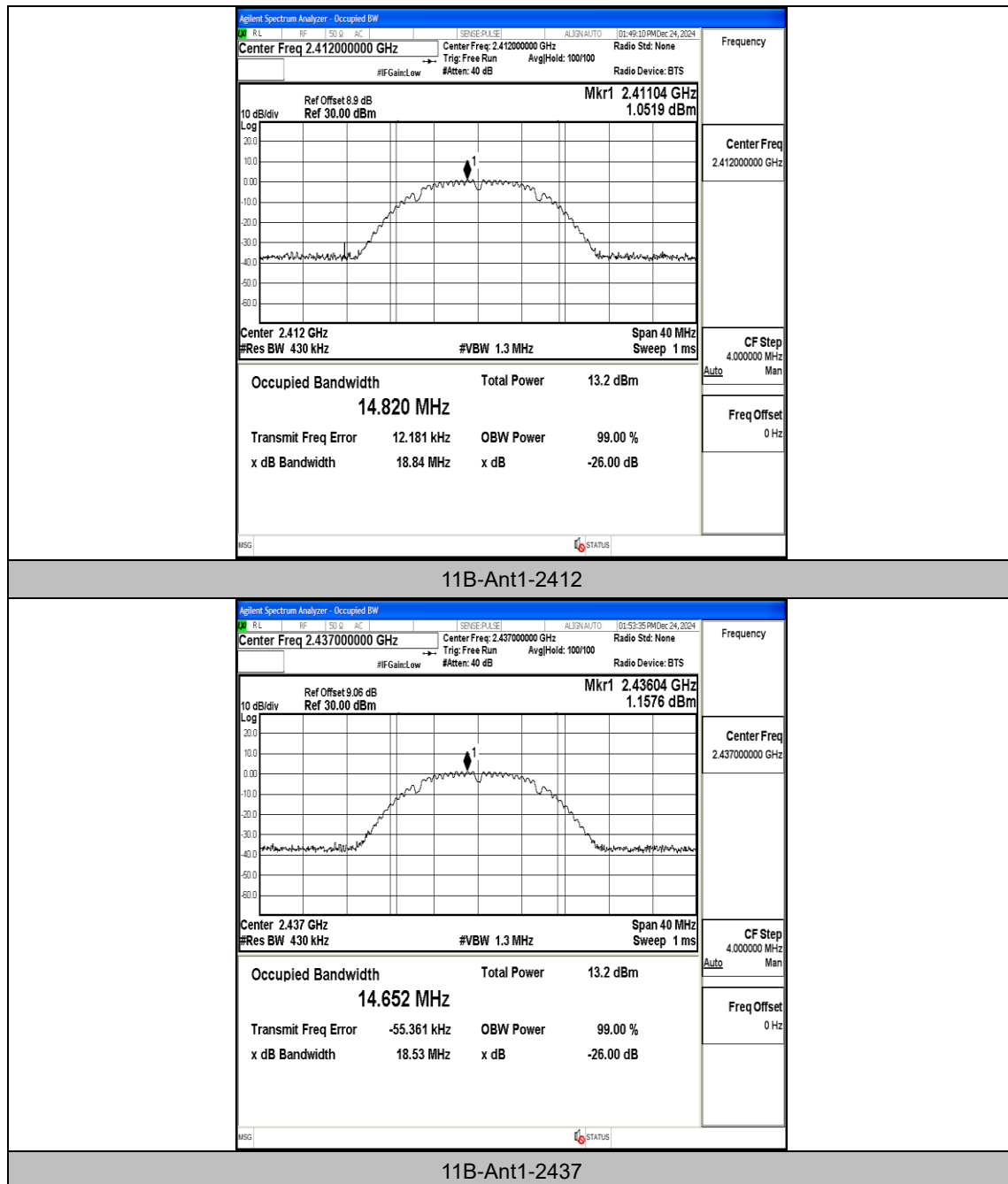


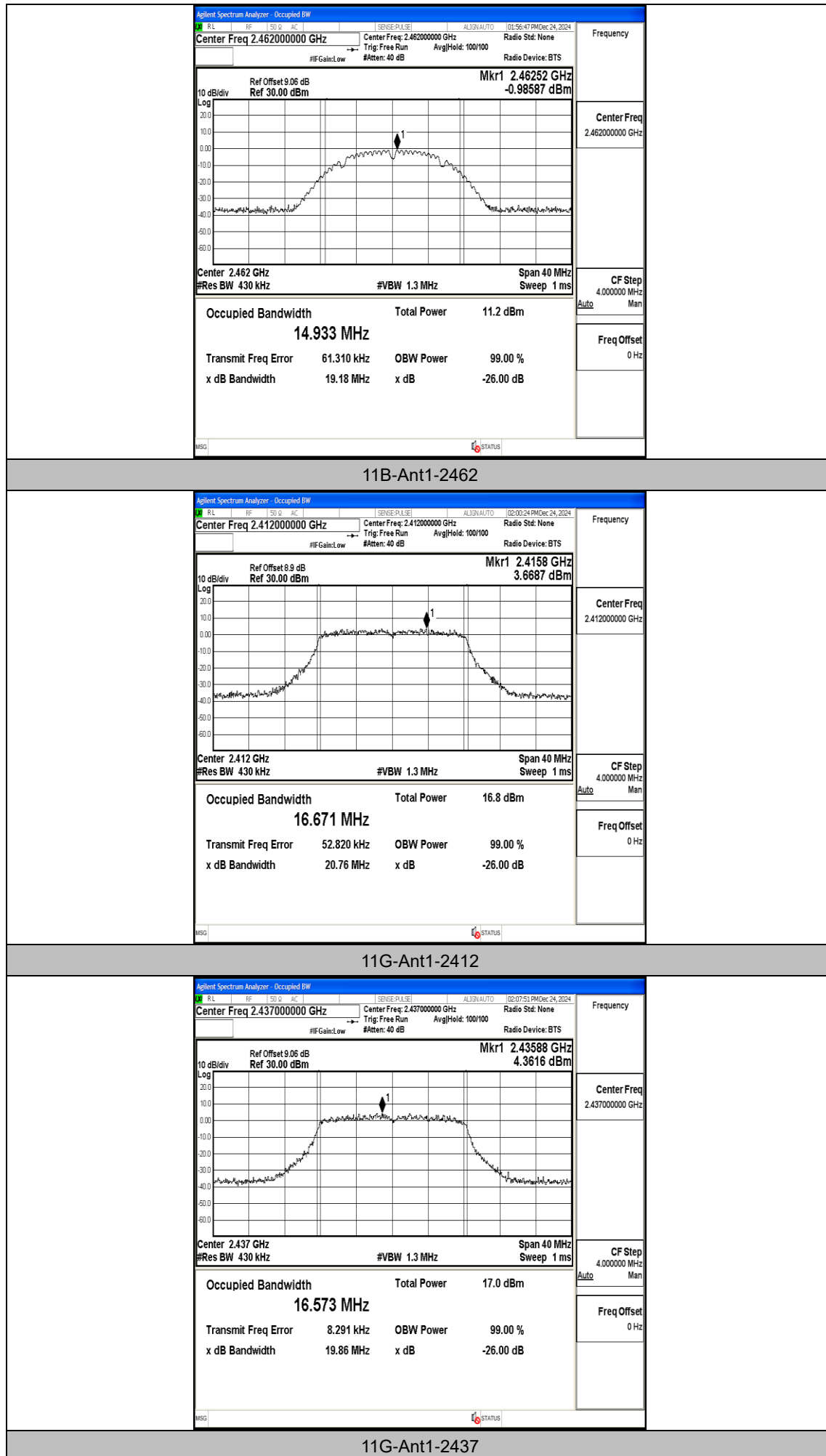
Appendix B: Occupied Channel Bandwidth

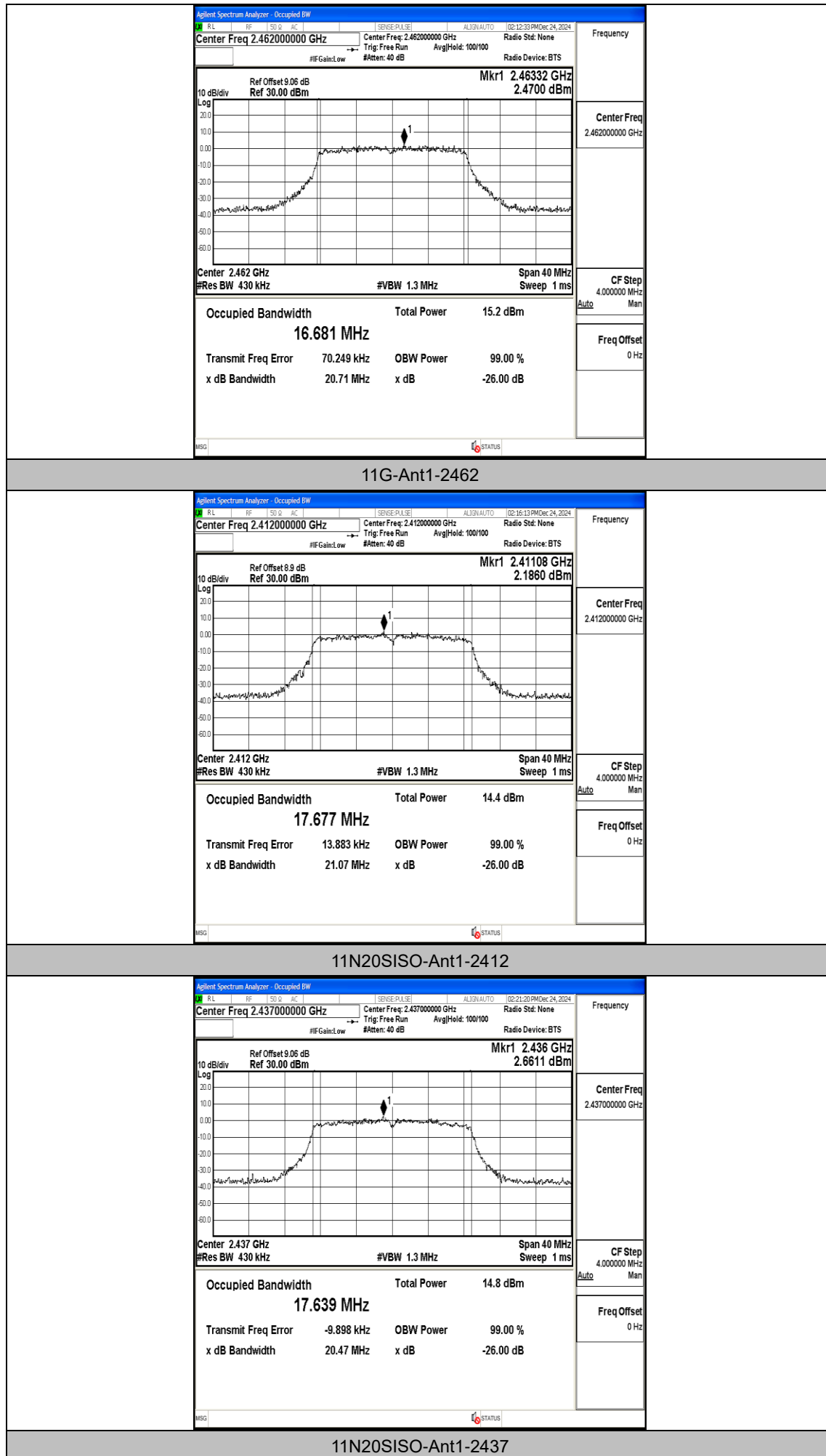
Test Result

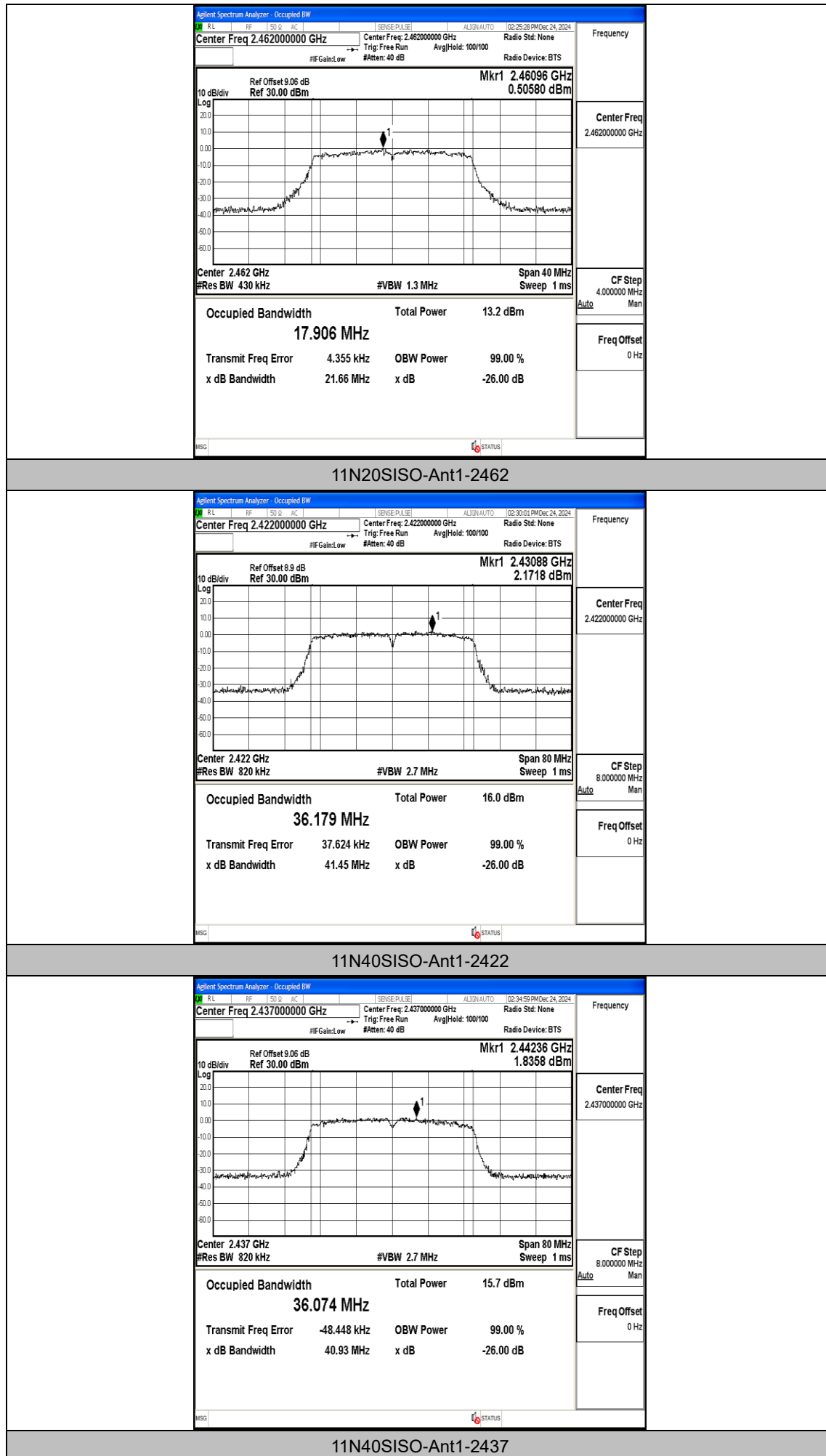
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	14.820	2404.6022	2419.4222	---	---
11B	Ant1	2437	14.652	2429.6186	2444.2706	---	---
11B	Ant1	2462	14.933	2454.5948	2469.5278	---	---
11G	Ant1	2412	16.671	2403.7173	2420.3883	---	---
11G	Ant1	2437	16.573	2428.7218	2445.2948	---	---
11G	Ant1	2462	16.681	2453.7298	2470.4108	---	---
11N20SISO	Ant1	2412	17.677	2403.1754	2420.8524	---	---
11N20SISO	Ant1	2437	17.639	2428.1706	2445.8096	---	---
11N20SISO	Ant1	2462	17.906	2453.0514	2470.9574	---	---
11N40SISO	Ant1	2422	36.179	2403.9481	2440.1271	---	---
11N40SISO	Ant1	2437	36.074	2418.9146	2454.9886	---	---
11N40SISO	Ant1	2452	36.323	2433.8304	2470.1534	---	---

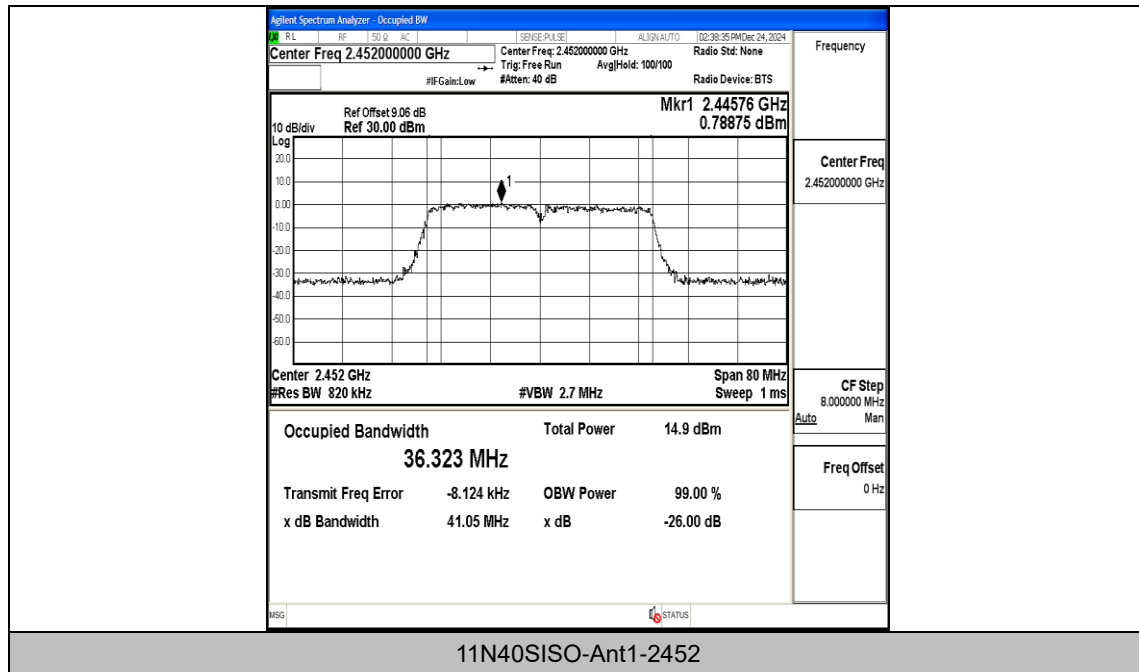
Test Graphs











Appendix C: Maximum Average conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	10.14	≤30.00	PASS
11B	Ant1	2437	10.20	≤30.00	PASS
11B	Ant1	2462	8.27	≤30.00	PASS
11G	Ant1	2412	10.68	≤30.00	PASS
11G	Ant1	2437	10.82	≤30.00	PASS
11G	Ant1	2462	9.15	≤30.00	PASS
11N20SISO	Ant1	2412	8.40	≤30.00	PASS
11N20SISO	Ant1	2437	8.12	≤30.00	PASS
11N20SISO	Ant1	2462	7.55	≤30.00	PASS
11N40SISO	Ant1	2422	9.91	≤30.00	PASS
11N40SISO	Ant1	2437	9.71	≤30.00	PASS
11N40SISO	Ant1	2452	8.82	≤30.00	PASS

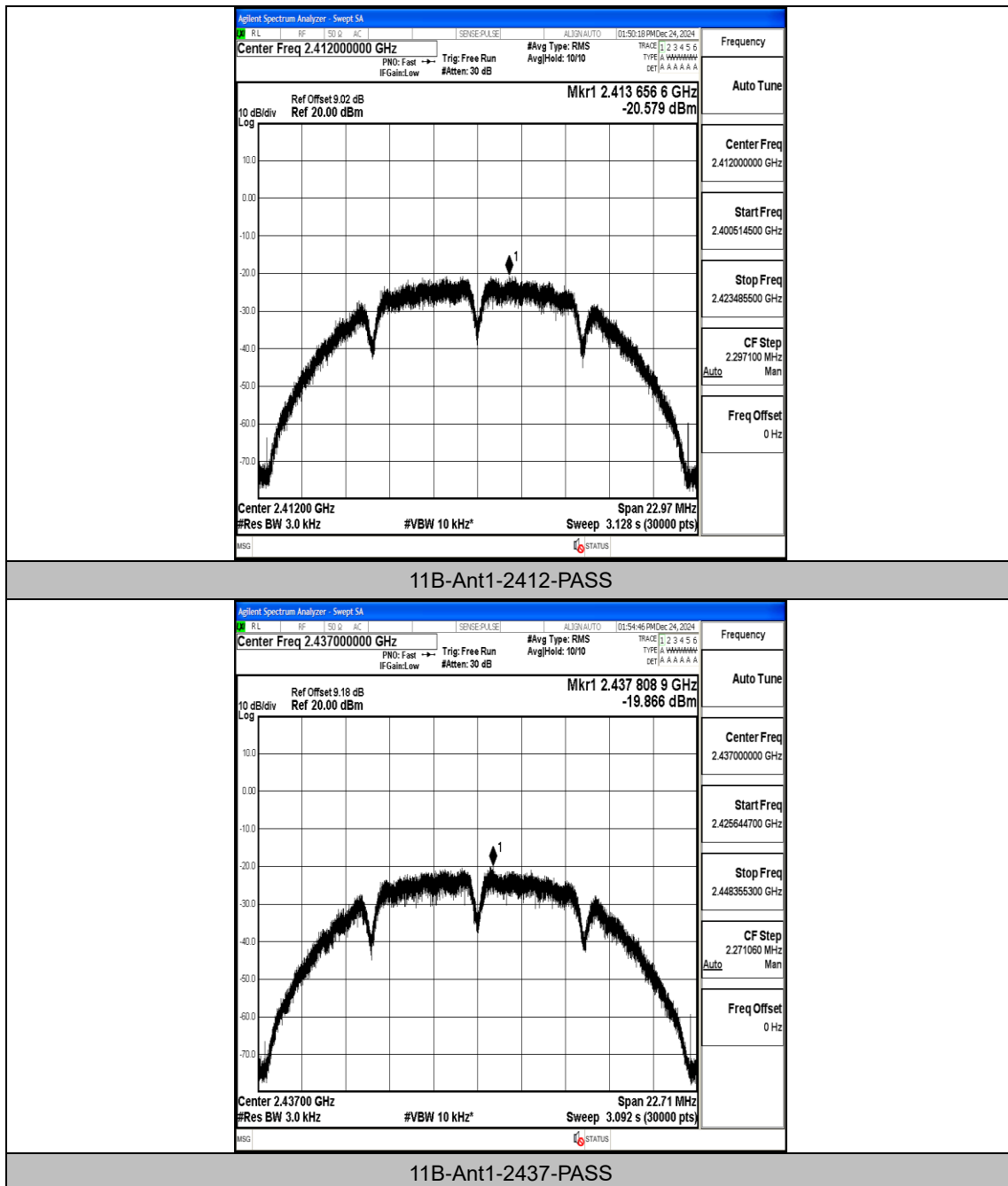
Note: The Duty Cycle Factor is compensated in the result.

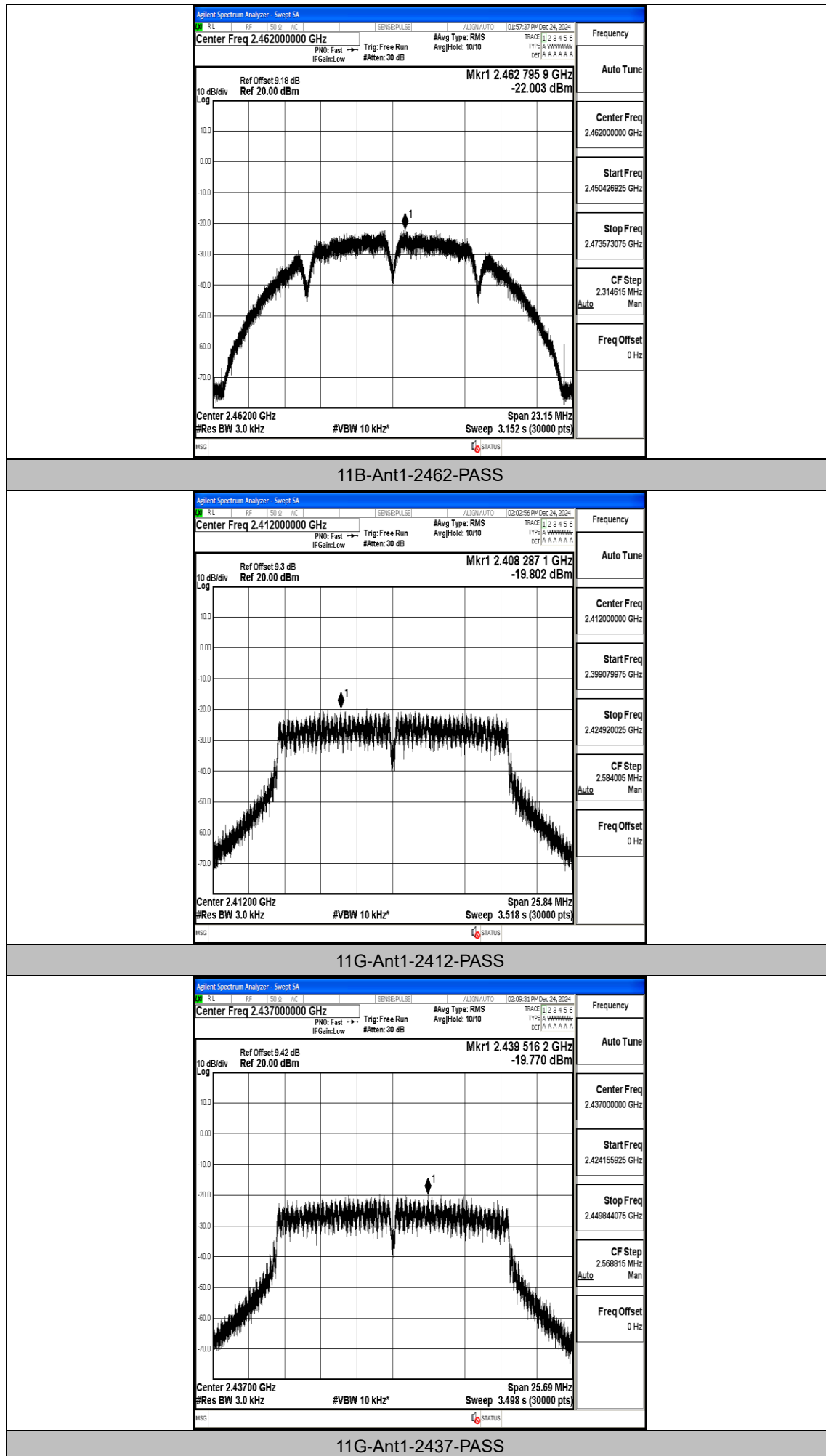
Appendix D: Maximum Average power spectral density

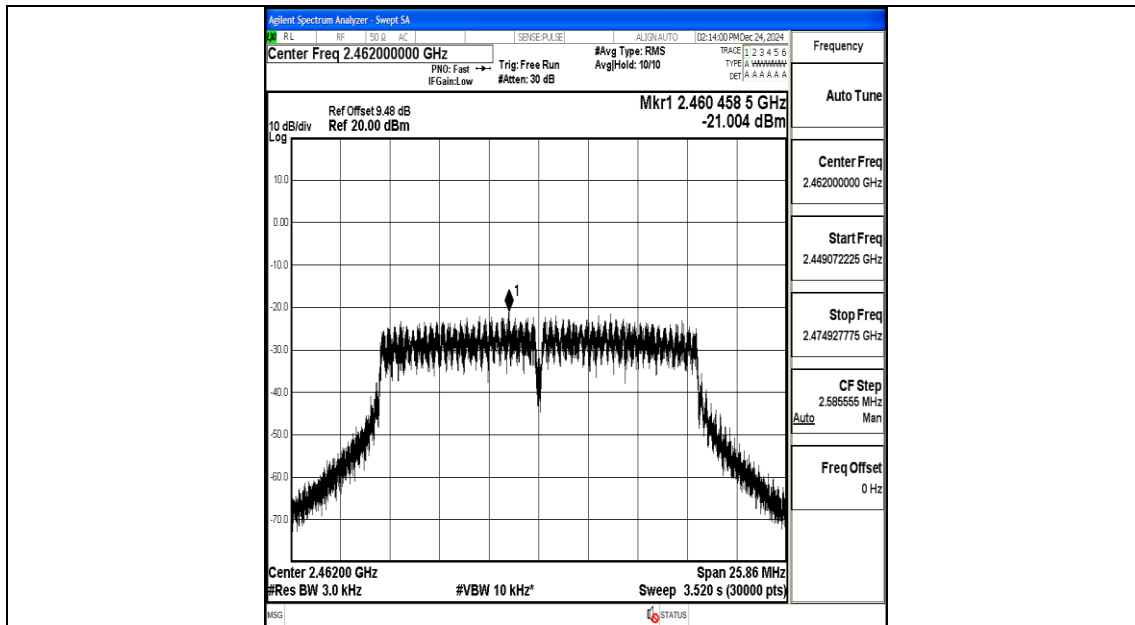
Test Result

Test Mode	Antenna	Frequency [MHz]	Raw. Data [dBm/3-100kHz]	Dc. Factor	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-20.70	0.12	-20.58	≤8.00	PASS
11B	Ant1	2437	-19.99	0.12	-19.87	≤8.00	PASS
11B	Ant1	2462	-22.12	0.12	-22.00	≤8.00	PASS
11G	Ant1	2412	-20.20	0.40	-19.80	≤8.00	PASS
11G	Ant1	2437	-20.13	0.36	-19.77	≤8.00	PASS
11G	Ant1	2462	-21.42	0.42	-21.00	≤8.00	PASS
11N20SI SO	Ant1	2412	-21.02	2.40	-18.62	≤8.00	PASS
11N20SI SO	Ant1	2437	-20.52	1.89	-18.63	≤8.00	PASS
11N20SI SO	Ant1	2462	-22.02	2.82	-19.20	≤8.00	PASS
11N40SI SO	Ant1	2422	-23.52	4.30	-19.22	≤8.00	PASS
11N40SI SO	Ant1	2437	-23.12	4.30	-18.82	≤8.00	PASS
11N40SI SO	Ant1	2452	-25.65	4.42	-21.23	≤8.00	PASS

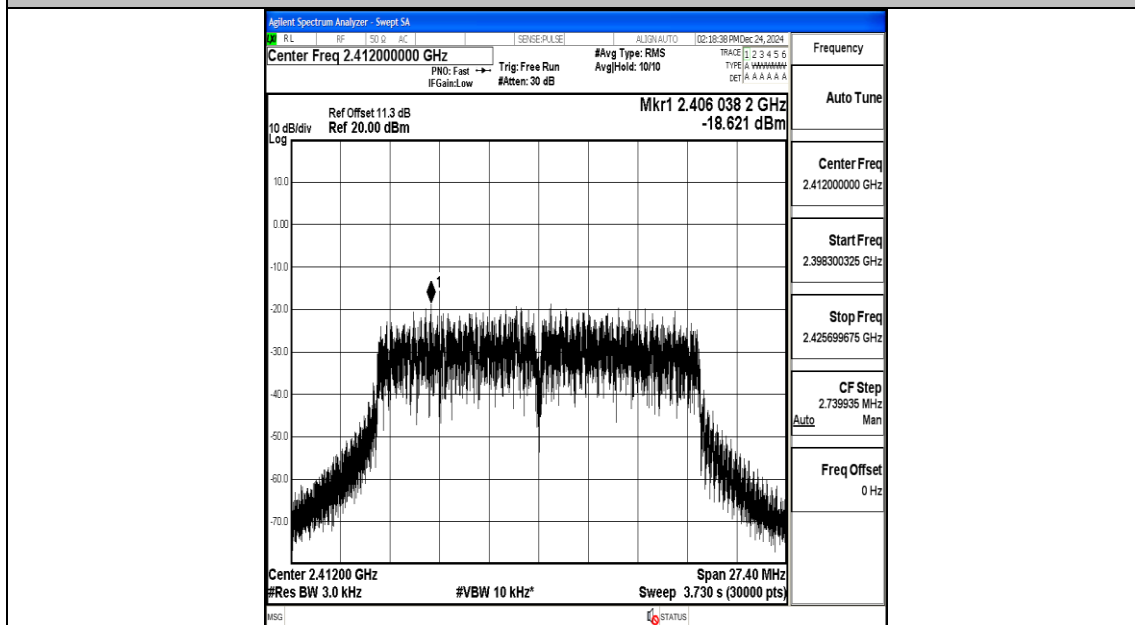
Test Graphs



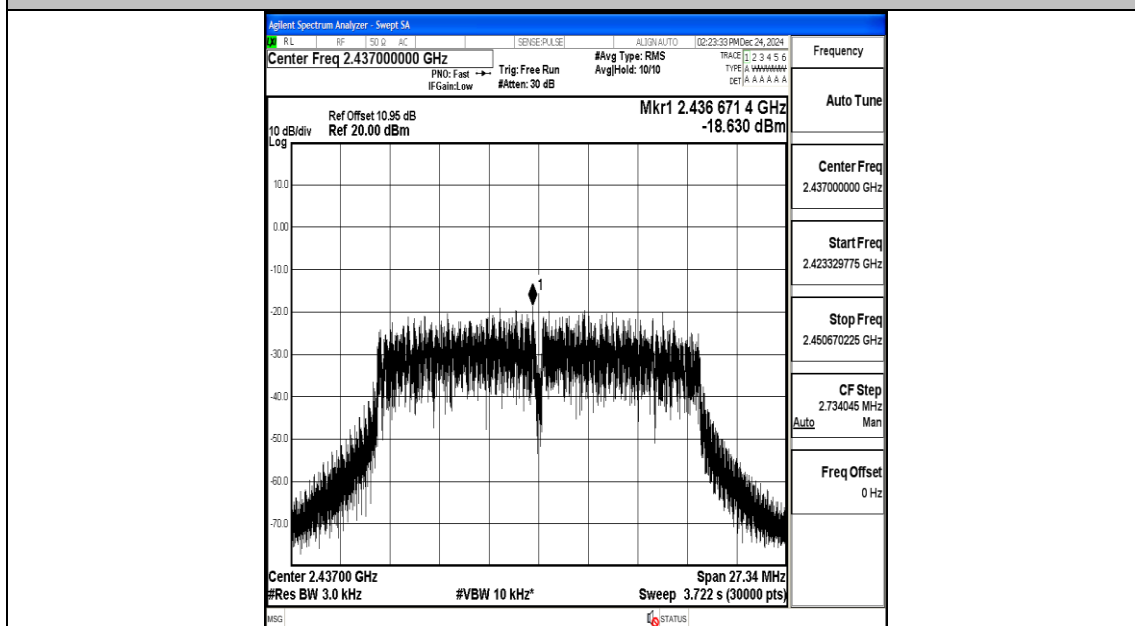




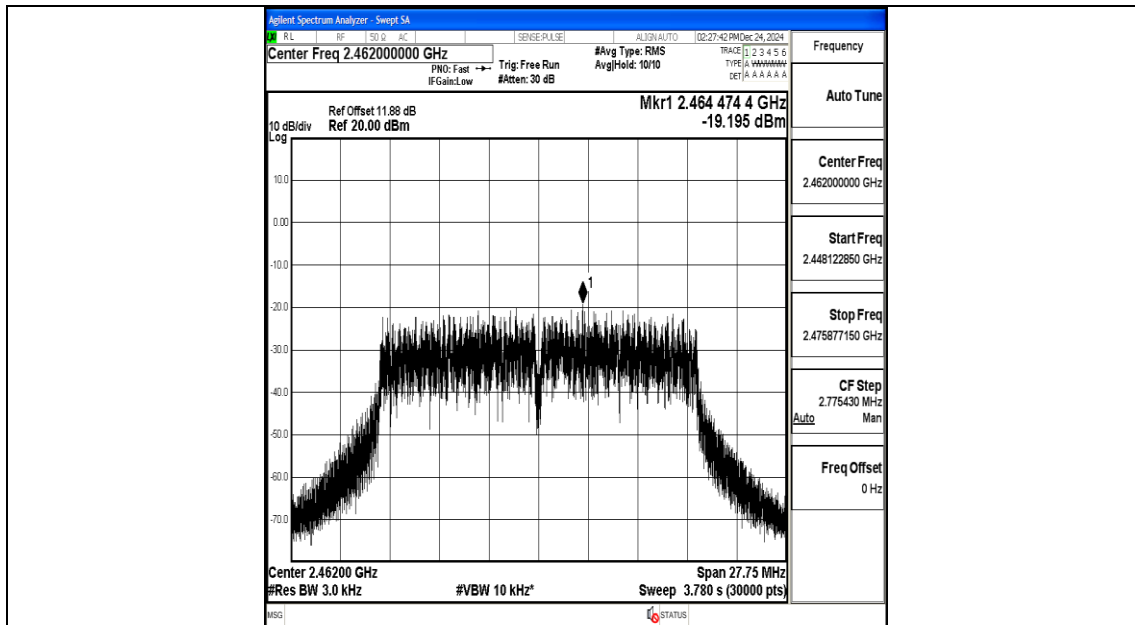
11G-Ant1-2462-PASS



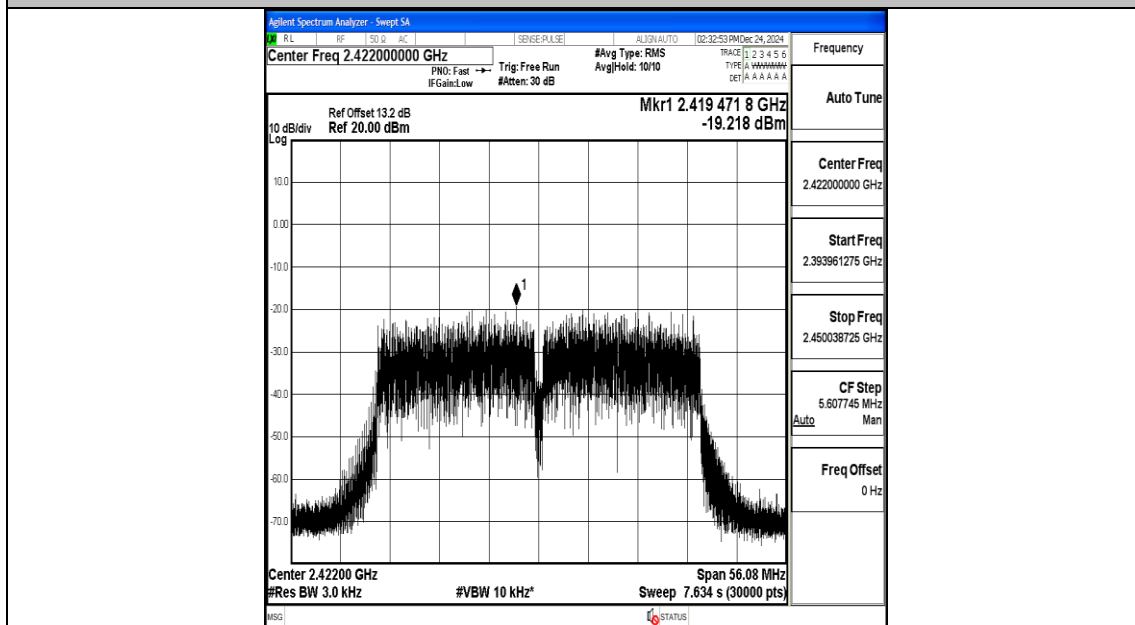
11N20SISO-Ant1-2412-PASS



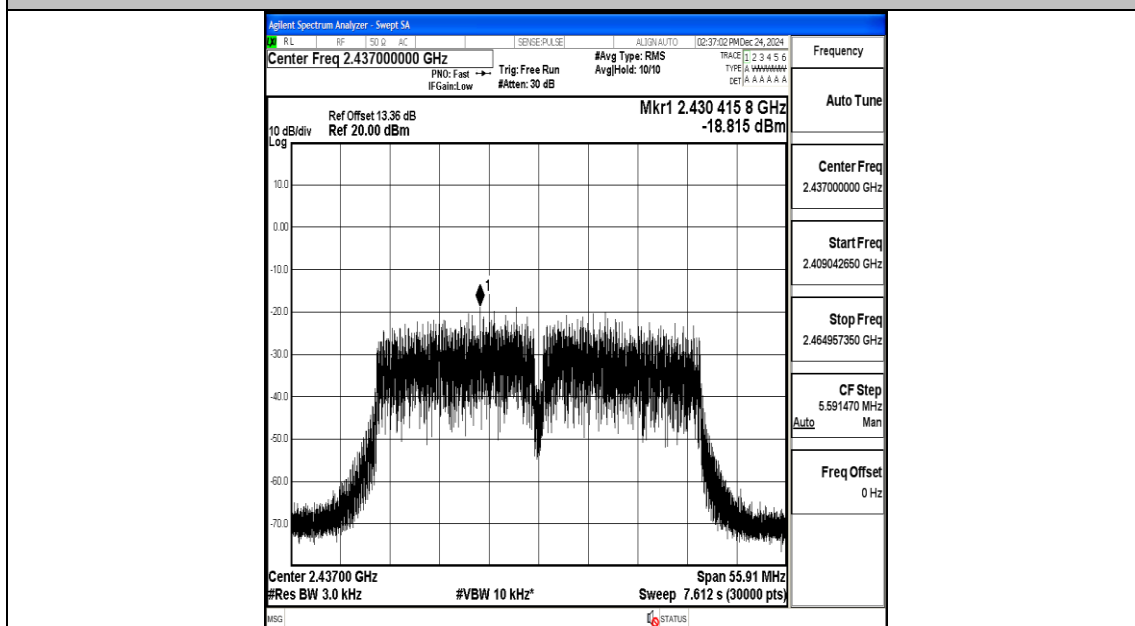
11N20SISO-Ant1-2437-PASS



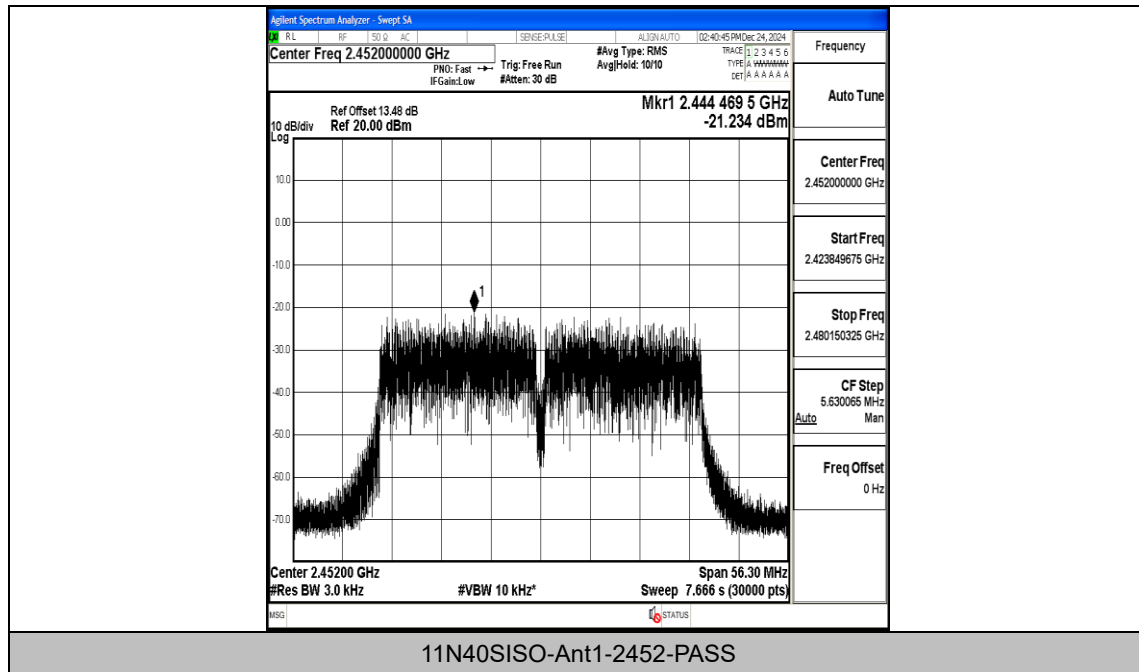
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS

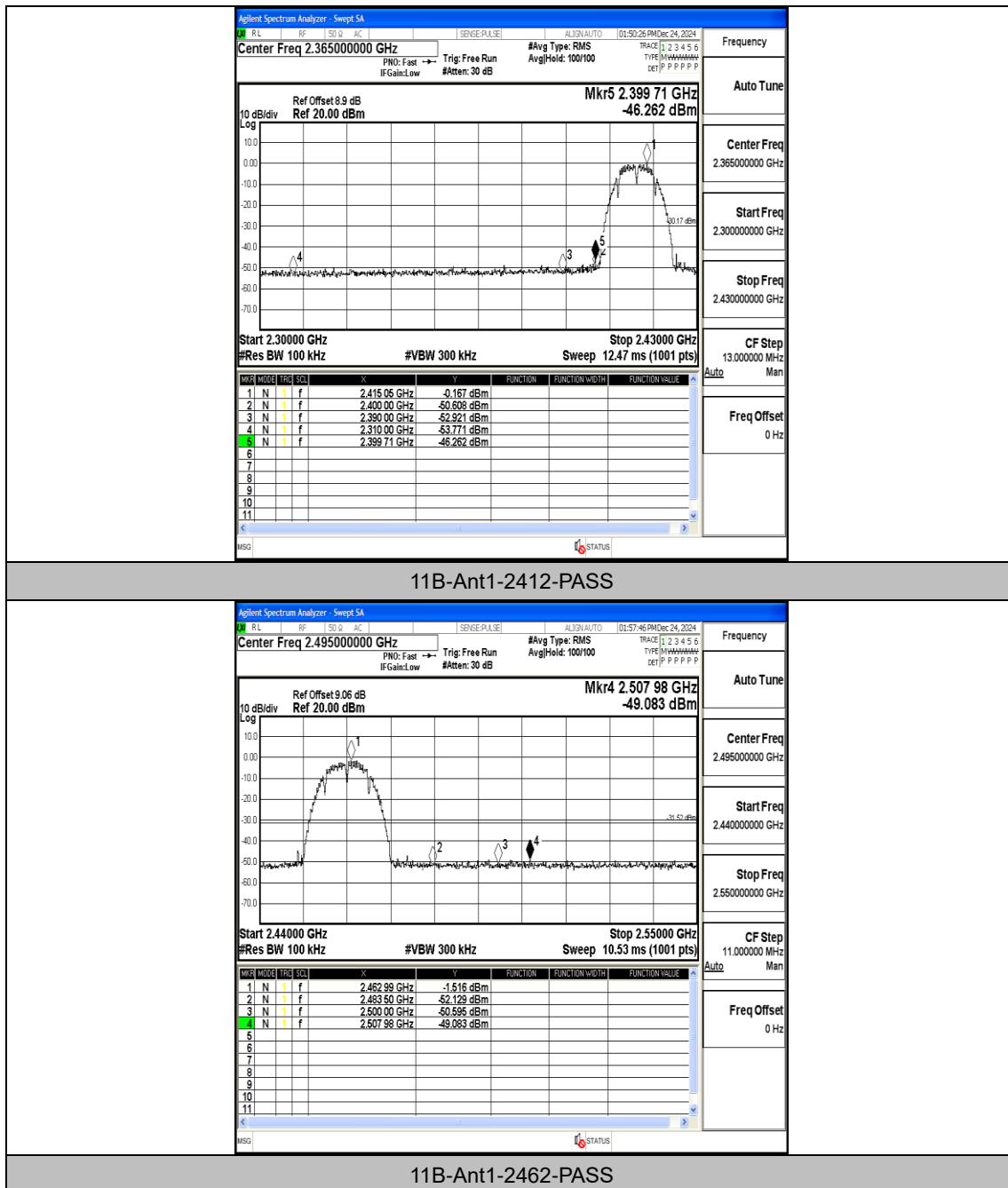


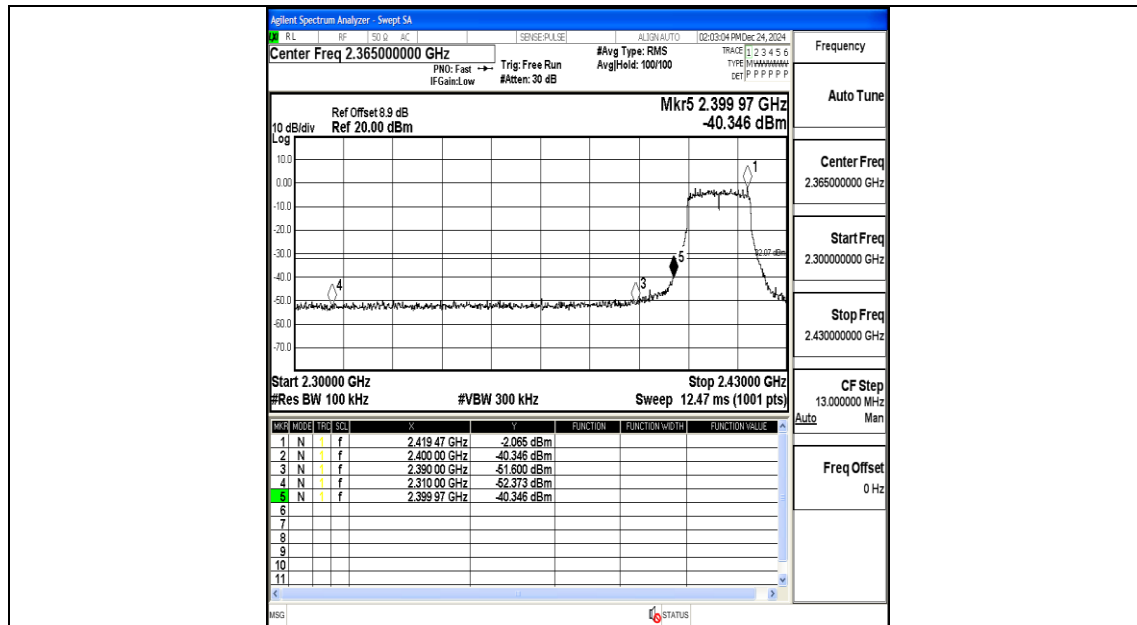
Appendix E: Band edge measurements

Test Result

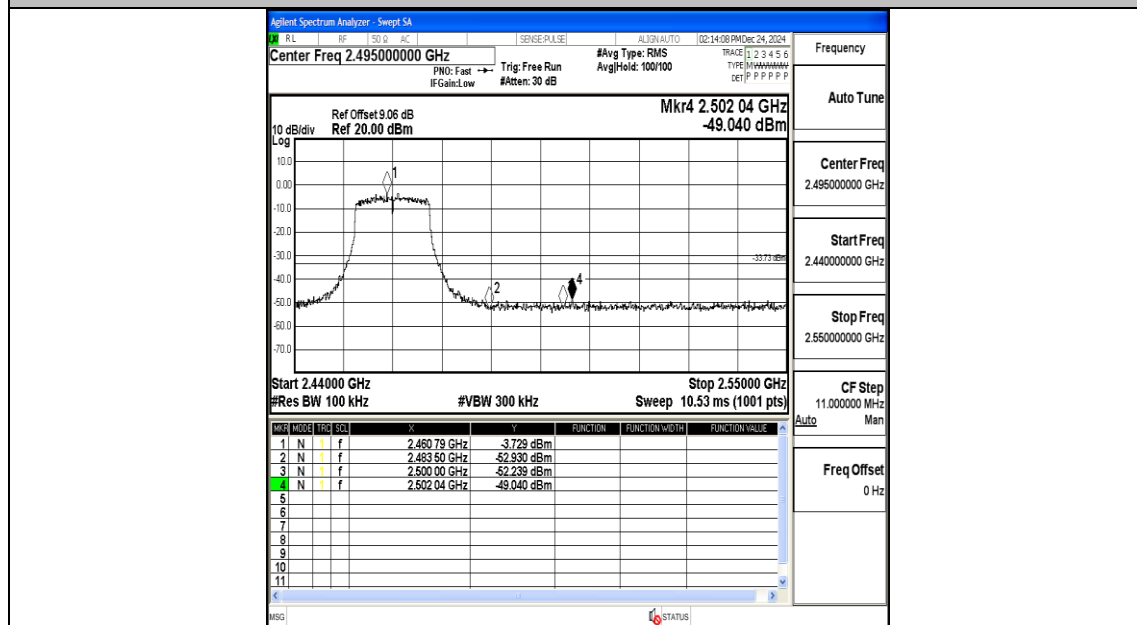
Test Mode	Antenna	Ch. Name	Frequency. [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	-0.17	-46.26	≤ -30.17	PASS
11B	Ant1	High	2462	-1.52	-49.08	≤ -31.52	PASS
11G	Ant1	Low	2412	-2.07	-40.35	≤ -32.07	PASS
11G	Ant1	High	2462	-3.73	-49.04	≤ -33.73	PASS
11N20SI SO	Ant1	Low	2412	-2.66	-39.57	≤ -32.66	PASS
11N20SI SO	Ant1	High	2462	-3.73	-49.15	≤ -33.73	PASS
11N40SI SO	Ant1	Low	2422	-4.19	-43.17	≤ -34.19	PASS
11N40SI SO	Ant1	High	2452	-5.26	-48.68	≤ -35.26	PASS

Test Graphs

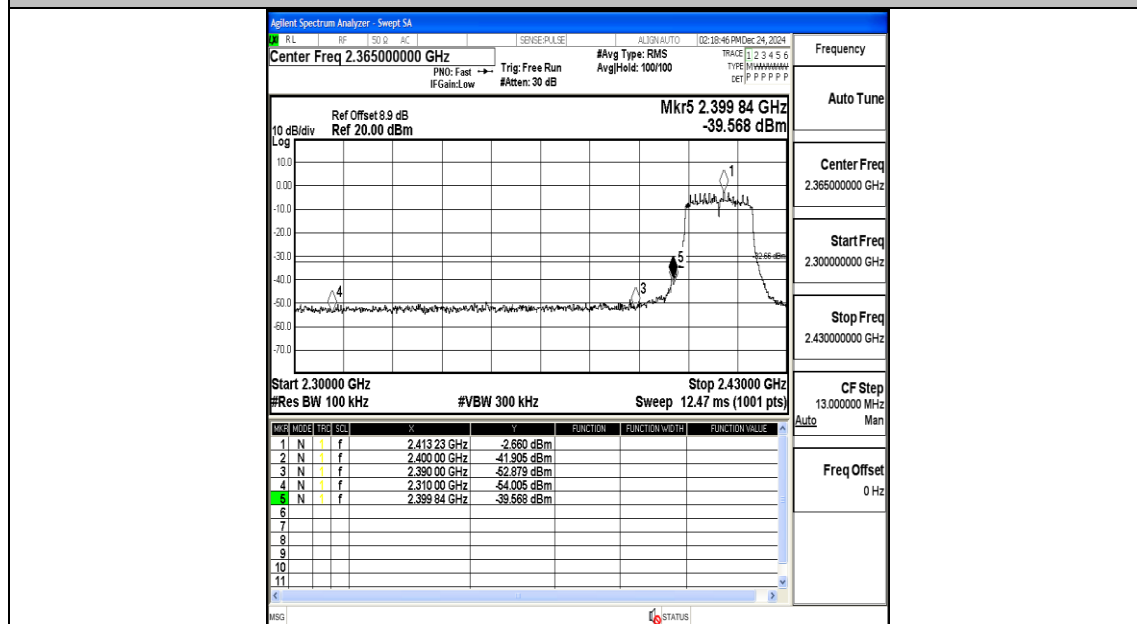




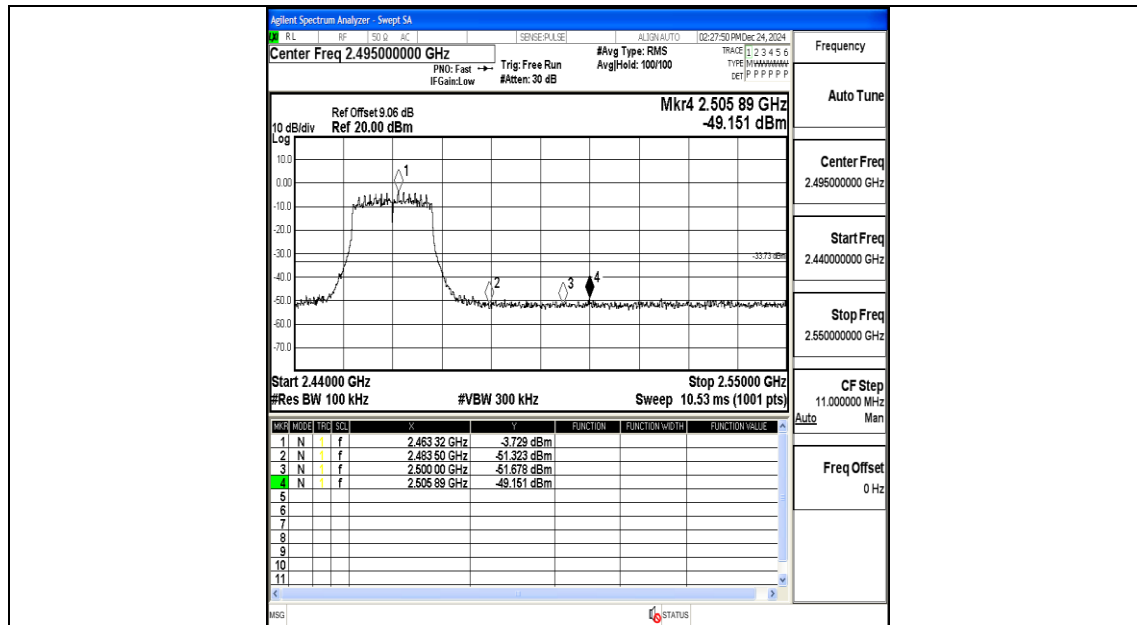
11G-Ant1-2412-PASS



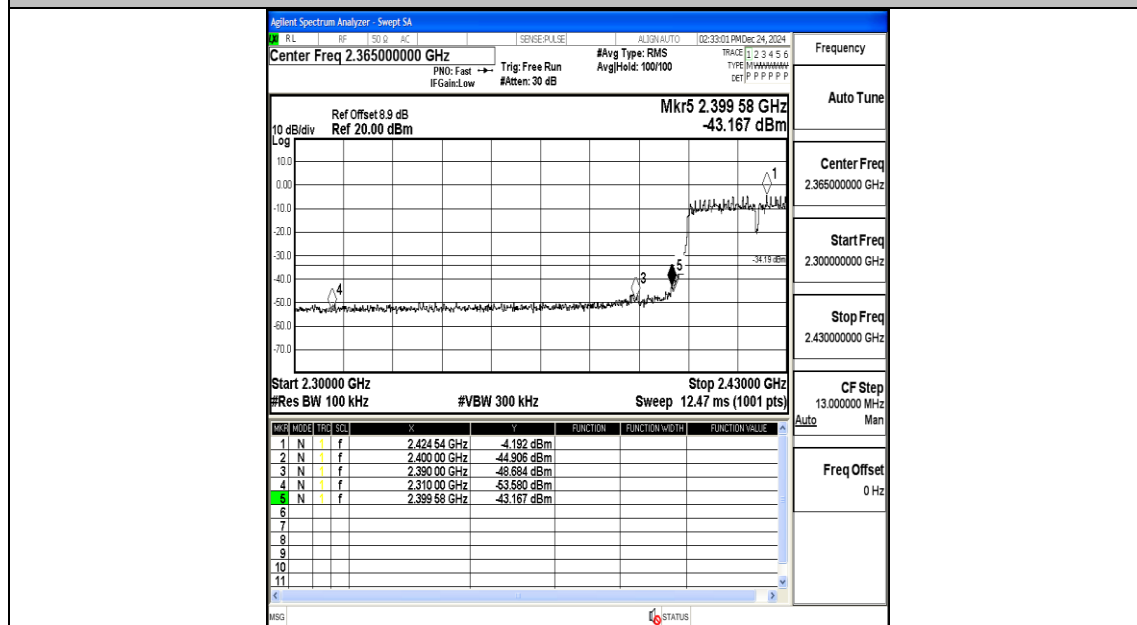
11G-Ant1-2462-PASS



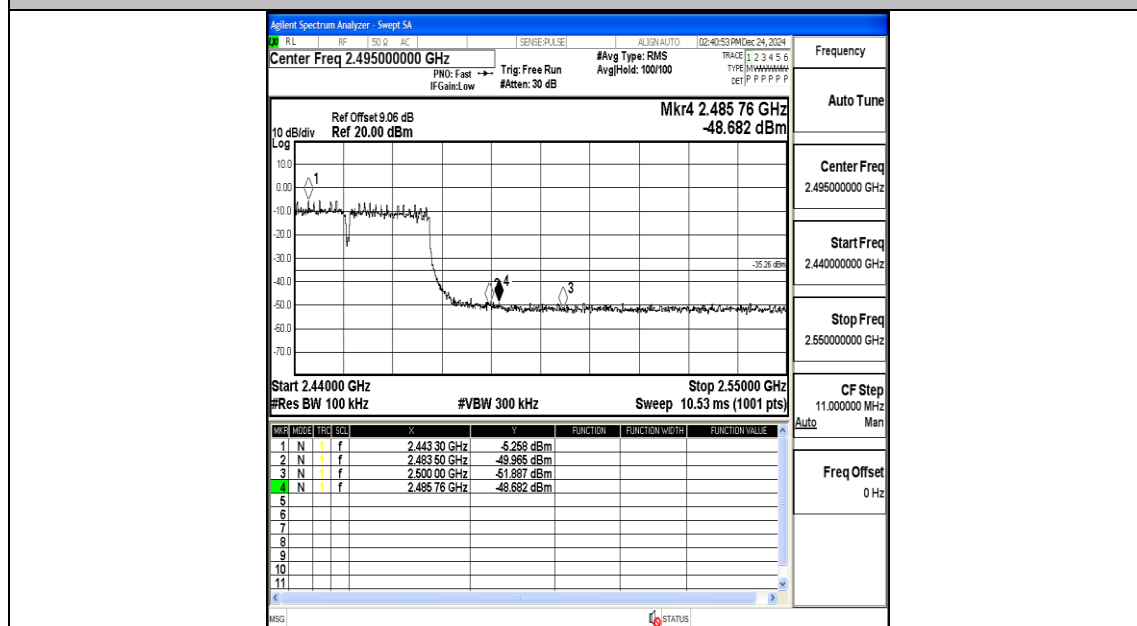
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



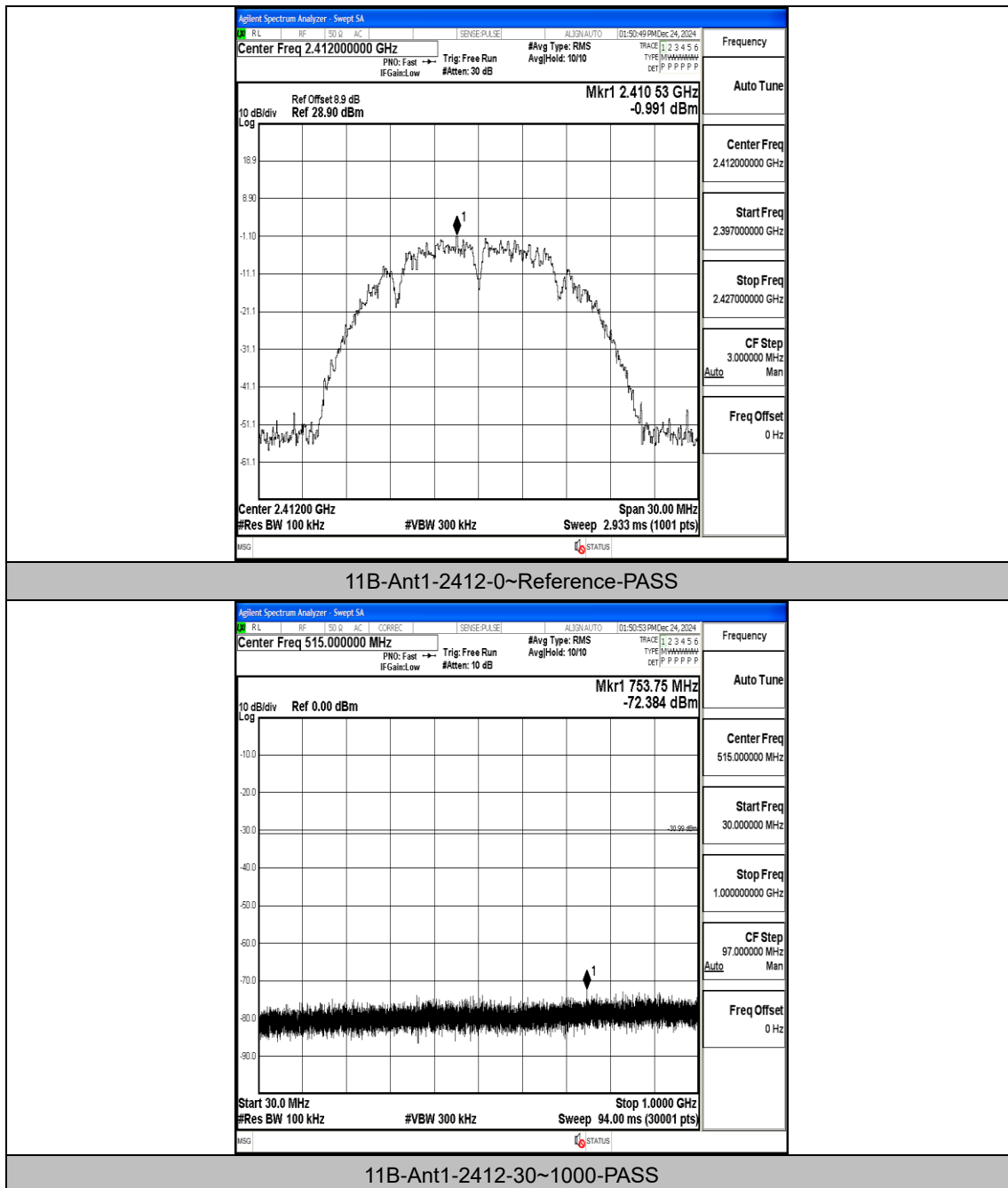
11N40SISO-Ant1-2452-PASS

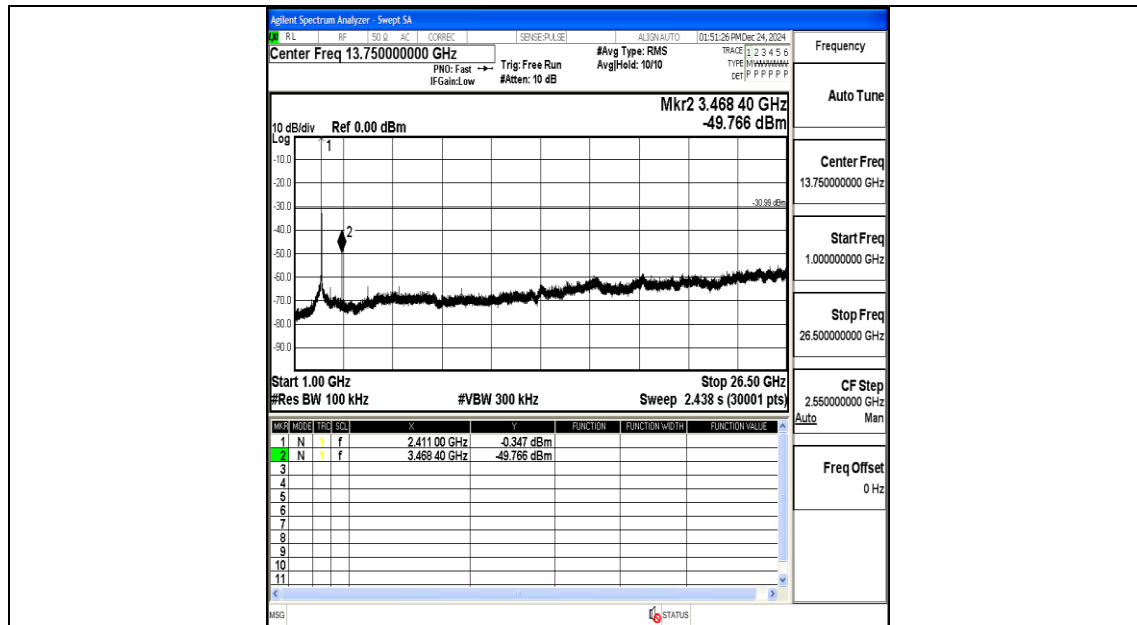
Appendix F: Conducted Spurious Emission

Test Result

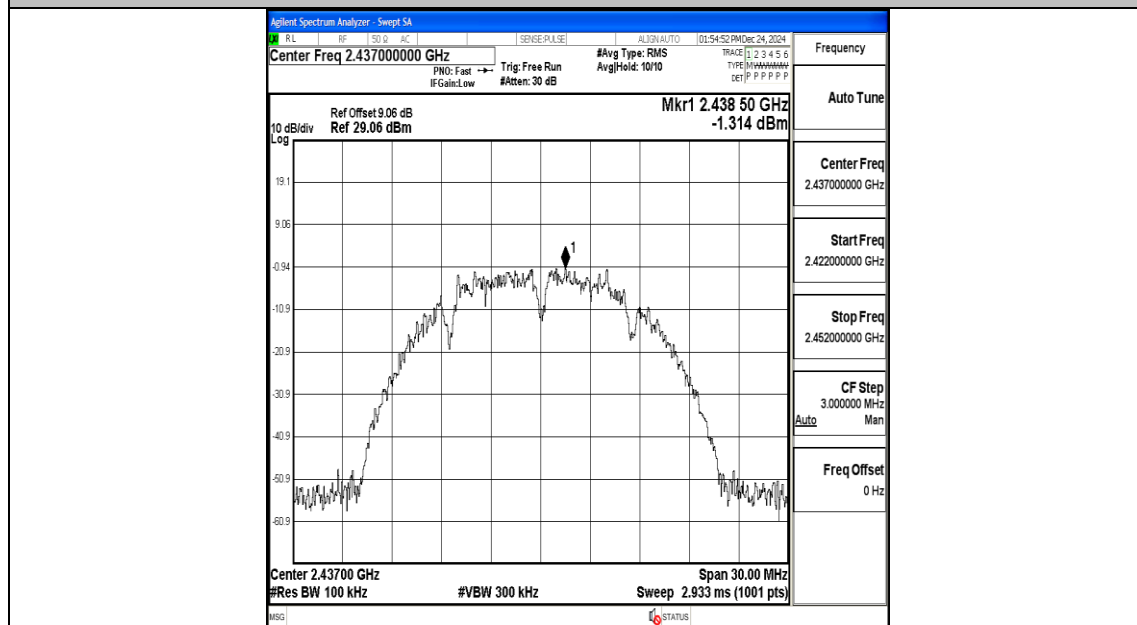
Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-0.99	-0.99	---	PASS
11B	Ant1	2412	30~1000	-0.99	-72.38	≤-30.99	PASS
11B	Ant1	2412	1000~26500	-0.99	-49.77	≤-30.99	PASS
11B	Ant1	2437	0~Reference	-1.31	-1.31	---	PASS
11B	Ant1	2437	30~1000	-1.31	-71.76	≤-31.31	PASS
11B	Ant1	2437	1000~26500	-1.31	-55.53	≤-31.31	PASS
11B	Ant1	2462	0~Reference	-3.05	-3.05	---	PASS
11B	Ant1	2462	30~1000	-3.05	-72.38	≤-33.05	PASS
11B	Ant1	2462	1000~26500	-3.05	-55.67	≤-33.05	PASS
11G	Ant1	2412	0~Reference	-3.33	-3.33	---	PASS
11G	Ant1	2412	30~1000	-3.33	-72.86	≤-33.33	PASS
11G	Ant1	2412	1000~26500	-3.33	-54.99	≤-33.33	PASS
11G	Ant1	2437	0~Reference	-0.88	-0.88	---	PASS
11G	Ant1	2437	30~1000	-0.88	-73.17	≤-30.88	PASS
11G	Ant1	2437	1000~26500	-0.88	-55.18	≤-30.88	PASS
11G	Ant1	2462	0~Reference	-5.58	-5.58	---	PASS
11G	Ant1	2462	30~1000	-5.58	-72.89	≤-35.58	PASS
11G	Ant1	2462	1000~26500	-5.58	-54.94	≤-35.58	PASS
11N20SISO	Ant1	2412	0~Reference	-3.04	-3.04	---	PASS
11N20SISO	Ant1	2412	30~1000	-3.04	-73.08	≤-33.04	PASS
11N20SISO	Ant1	2412	1000~26500	-3.04	-54.27	≤-33.04	PASS
11N20SISO	Ant1	2437	0~Reference	-2.13	-2.13	---	PASS
11N20SISO	Ant1	2437	30~1000	-2.13	-72.35	≤-32.13	PASS
11N20SISO	Ant1	2437	1000~26500	-2.13	-53.87	≤-32.13	PASS
11N20SISO	Ant1	2462	0~Reference	-4.57	-4.57	---	PASS
11N20SISO	Ant1	2462	30~1000	-4.57	-73.31	≤-34.57	PASS
11N20SISO	Ant1	2462	1000~26500	-4.57	-55.06	≤-34.57	PASS
11N40SISO	Ant1	2422	0~Reference	-4.61	-4.61	---	PASS
11N40SISO	Ant1	2422	30~1000	-4.61	-71.74	≤-34.61	PASS
11N40SISO	Ant1	2422	1000~26500	-4.61	-55.75	≤-34.61	PASS
11N40SISO	Ant1	2437	0~Reference	-4.99	-4.99	---	PASS
11N40SISO	Ant1	2437	30~1000	-4.99	-72.97	≤-34.99	PASS
11N40SISO	Ant1	2437	1000~26500	-4.99	-55.65	≤-34.99	PASS
11N40SISO	Ant1	2452	0~Reference	-6.40	-6.40	---	PASS
11N40SISO	Ant1	2452	30~1000	-6.40	-72.88	≤-36.4	PASS
11N40SISO	Ant1	2452	1000~26500	-6.40	-55.35	≤-36.4	PASS

Test Graphs

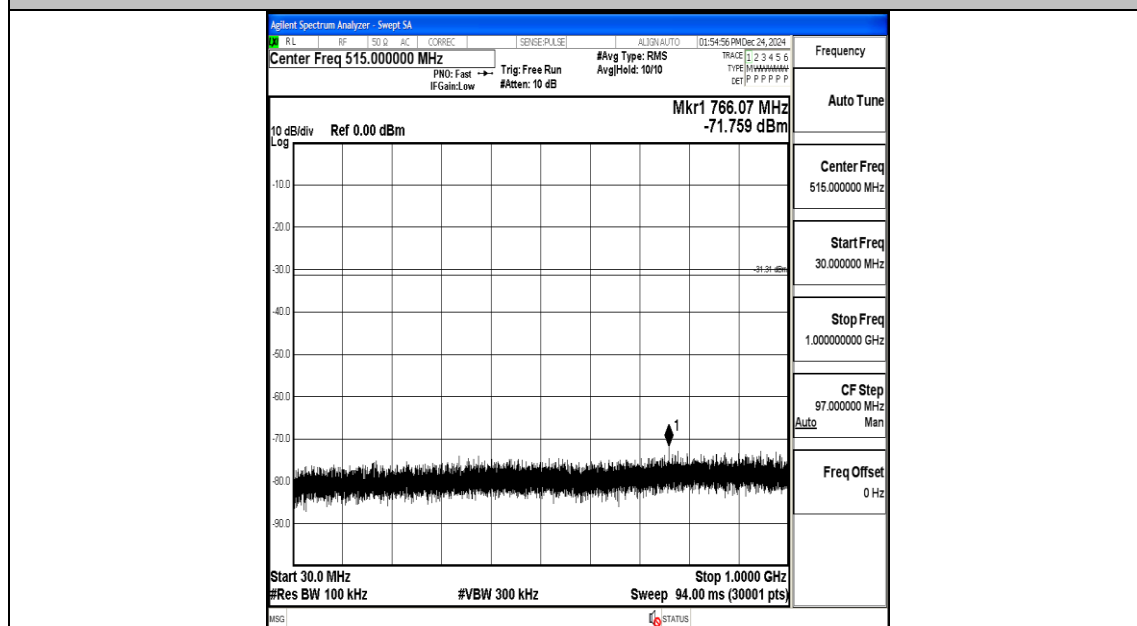




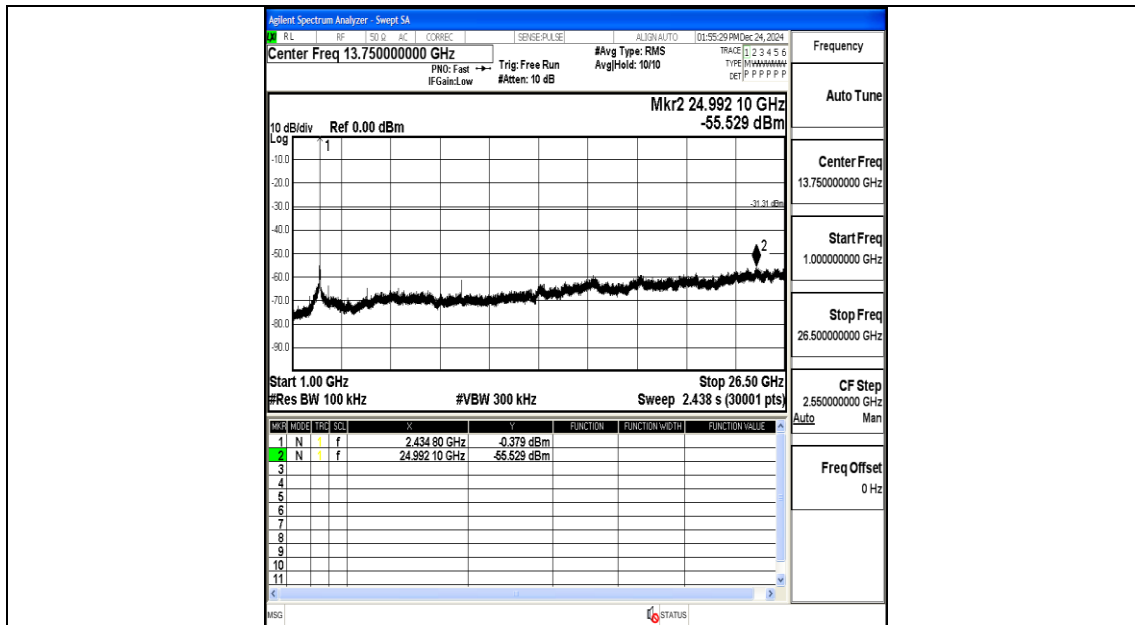
11B-Ant1-2412-1000~26500-PASS



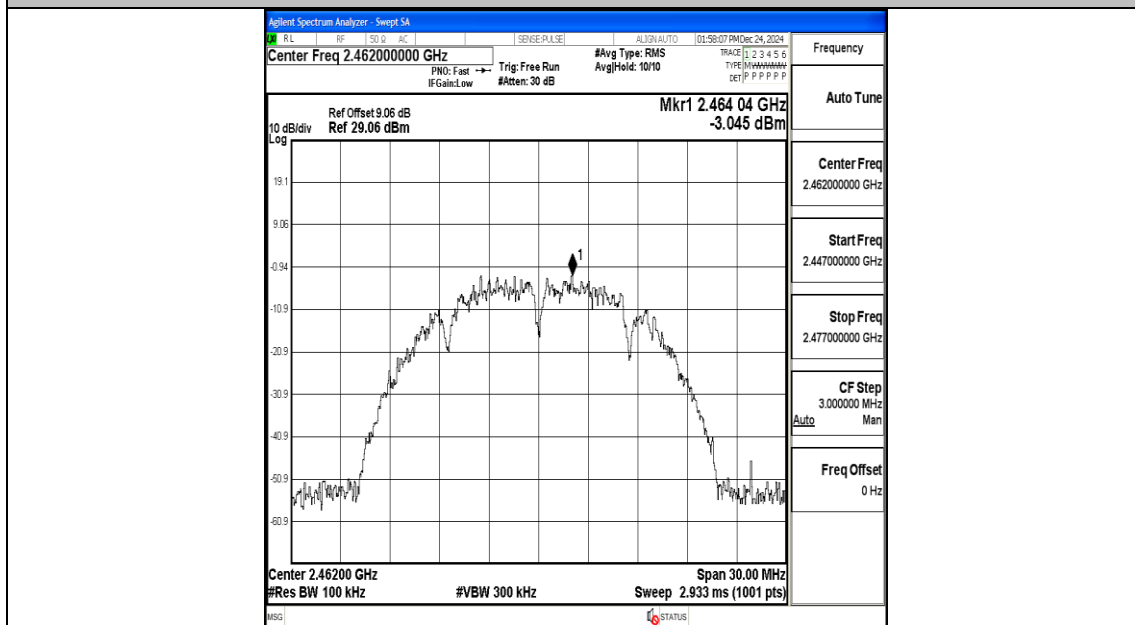
11B-Ant1-2437-0~Reference-PASS



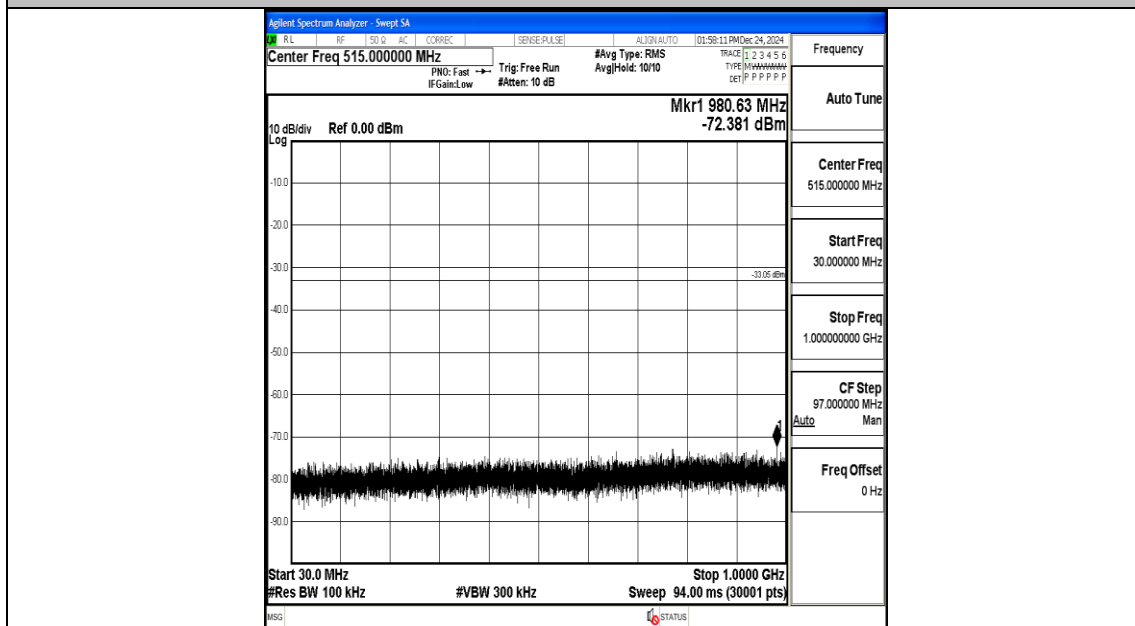
11B-Ant1-2437-30~1000-PASS



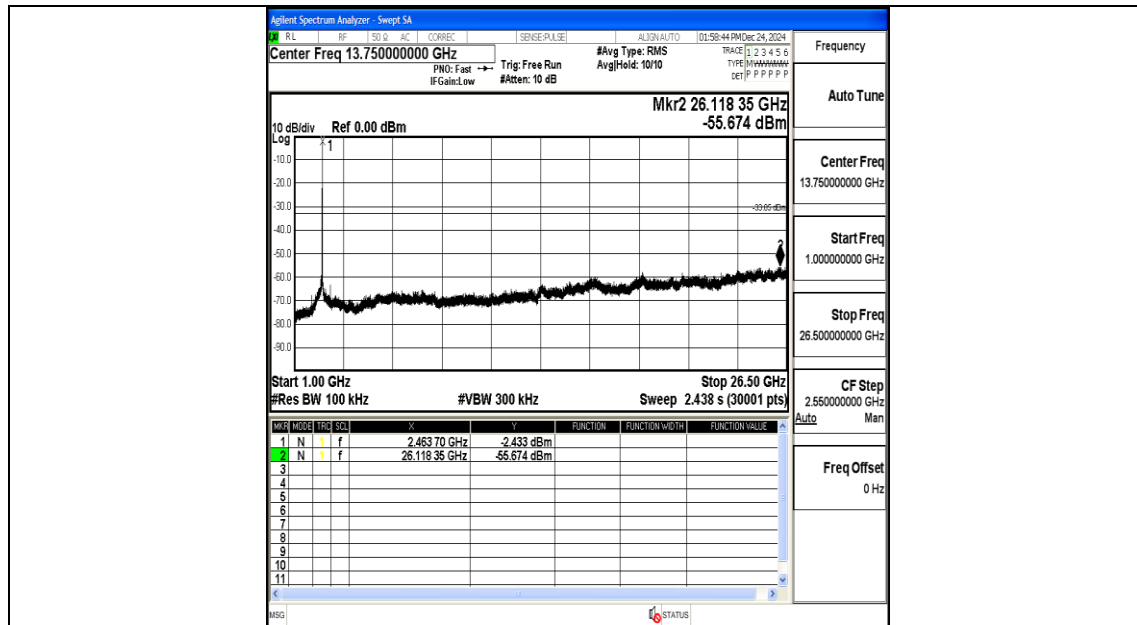
11B-Ant1-2437-1000~26500-PASS



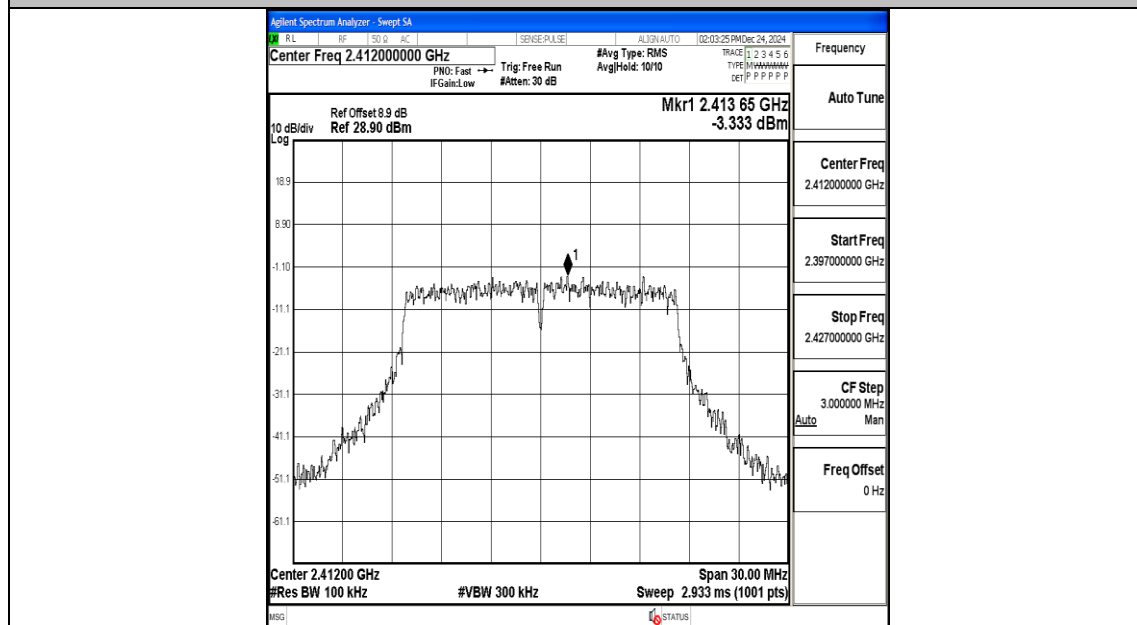
11B-Ant1-2462-0~Reference-PASS



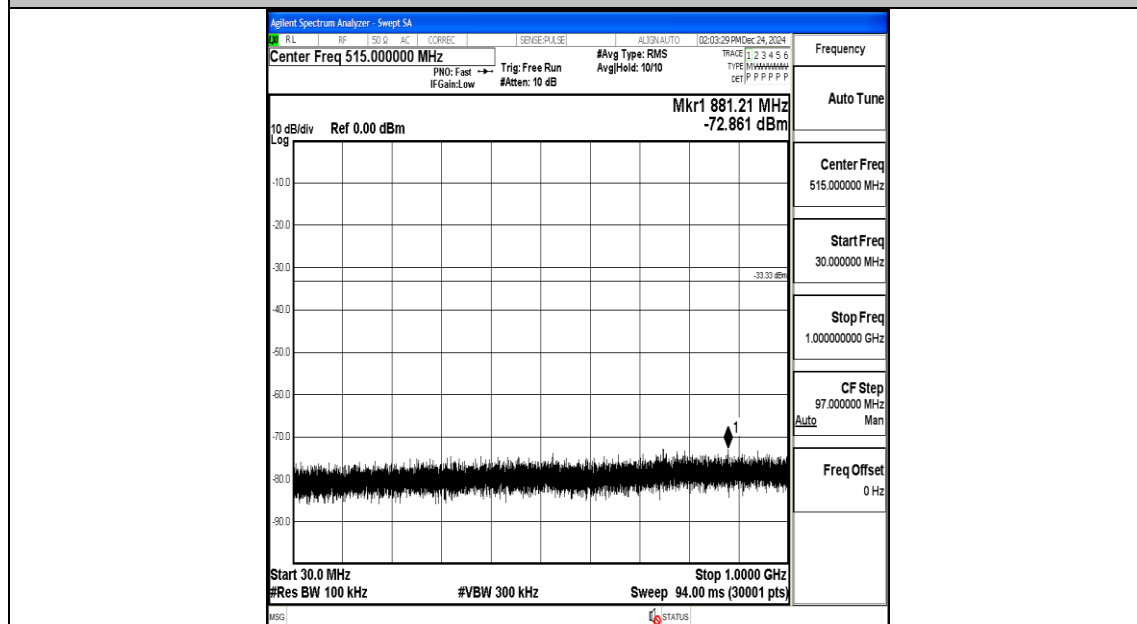
11B-Ant1-2462-30~1000-PASS



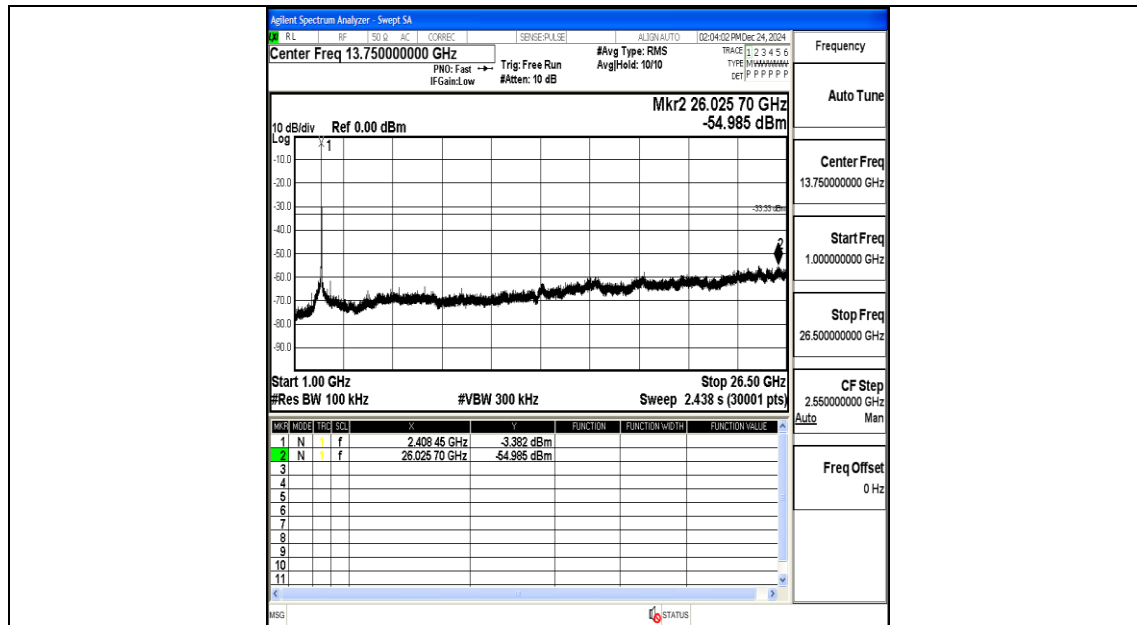
11B-Ant1-2462-1000~26500-PASS



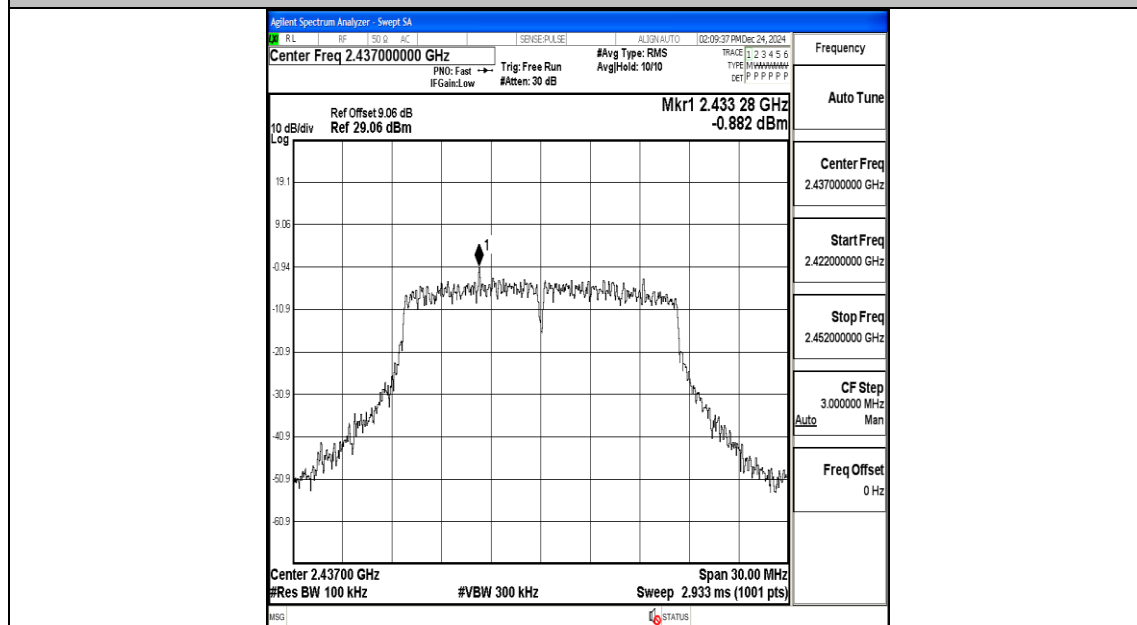
11G-Ant1-2412-0~Reference-PASS



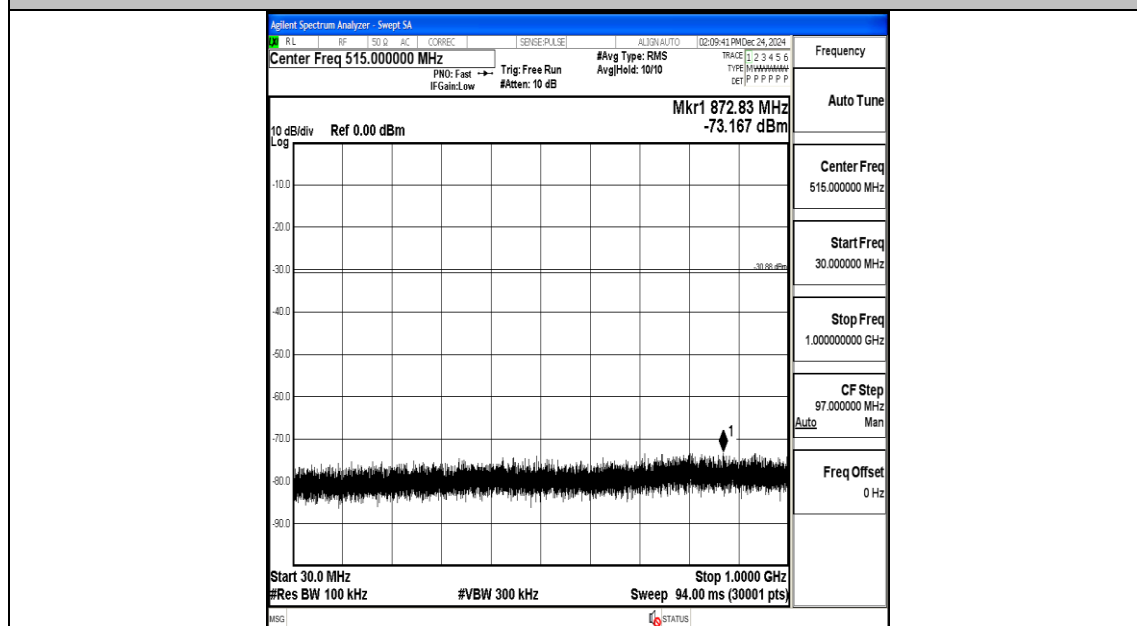
11G-Ant1-2412-30~1000-PASS



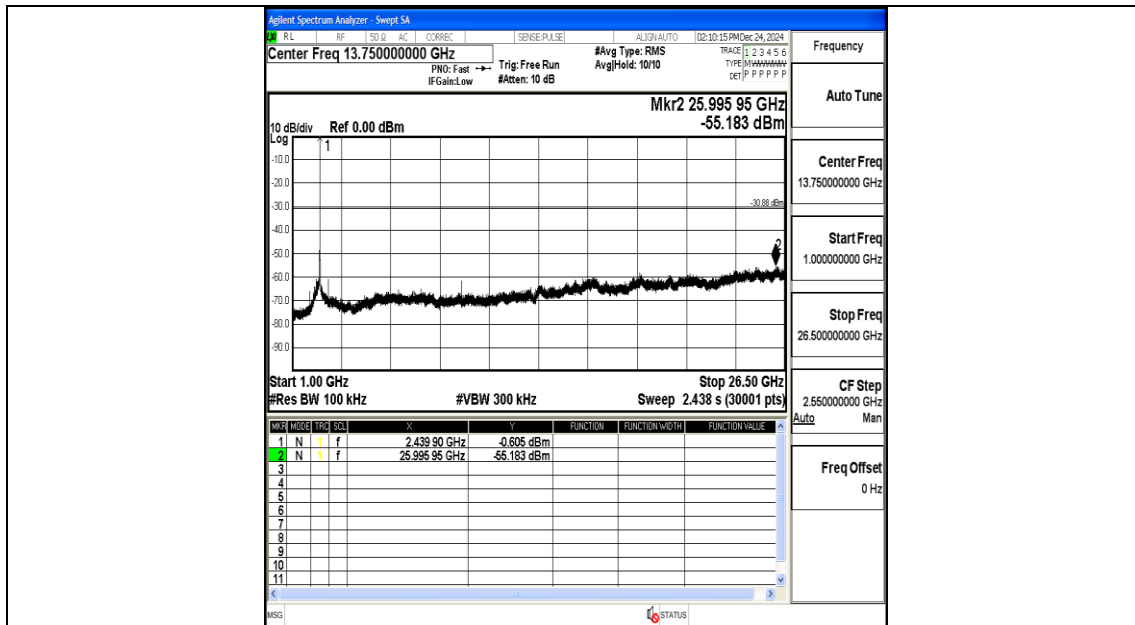
11G-Ant1-2412-1000~26500-PASS



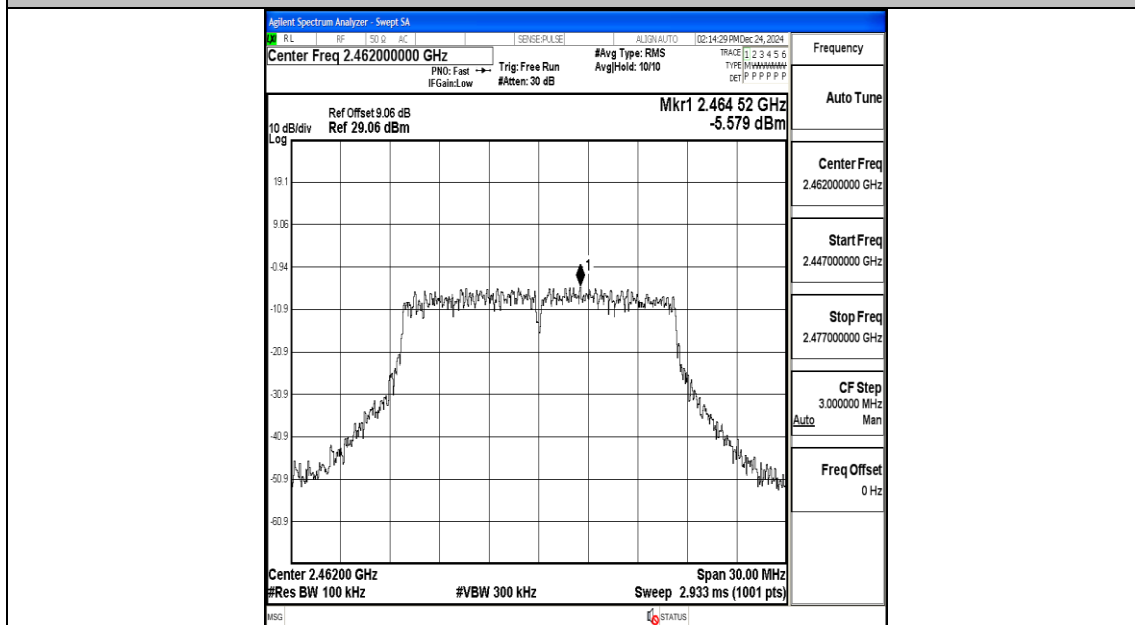
11G-Ant1-2437-0~Reference-PASS



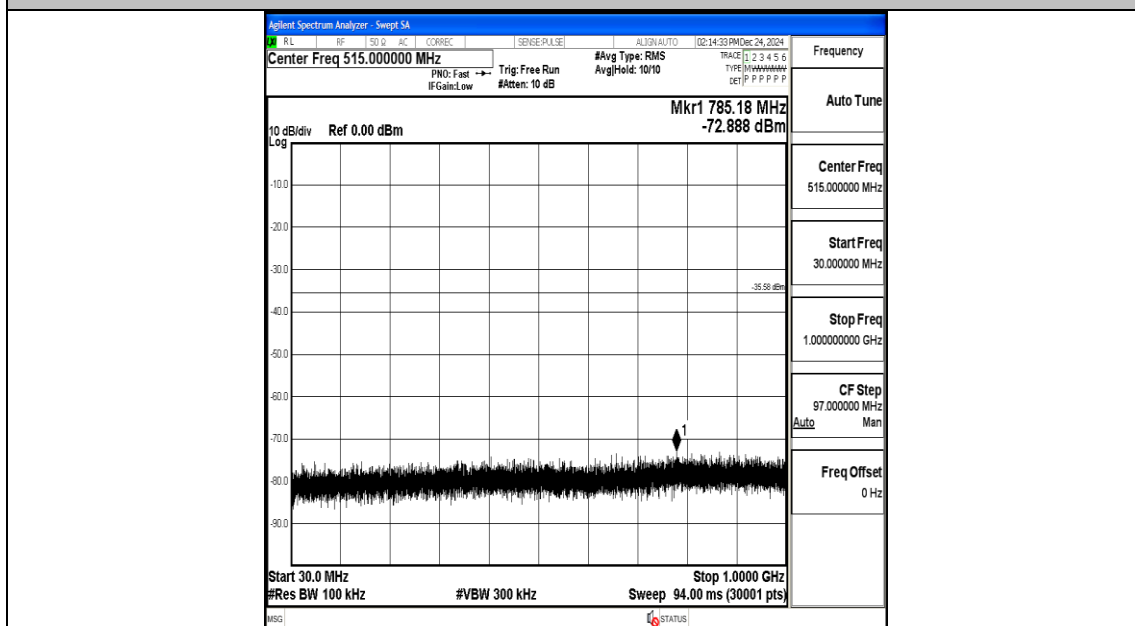
11G-Ant1-2437-30~1000-PASS



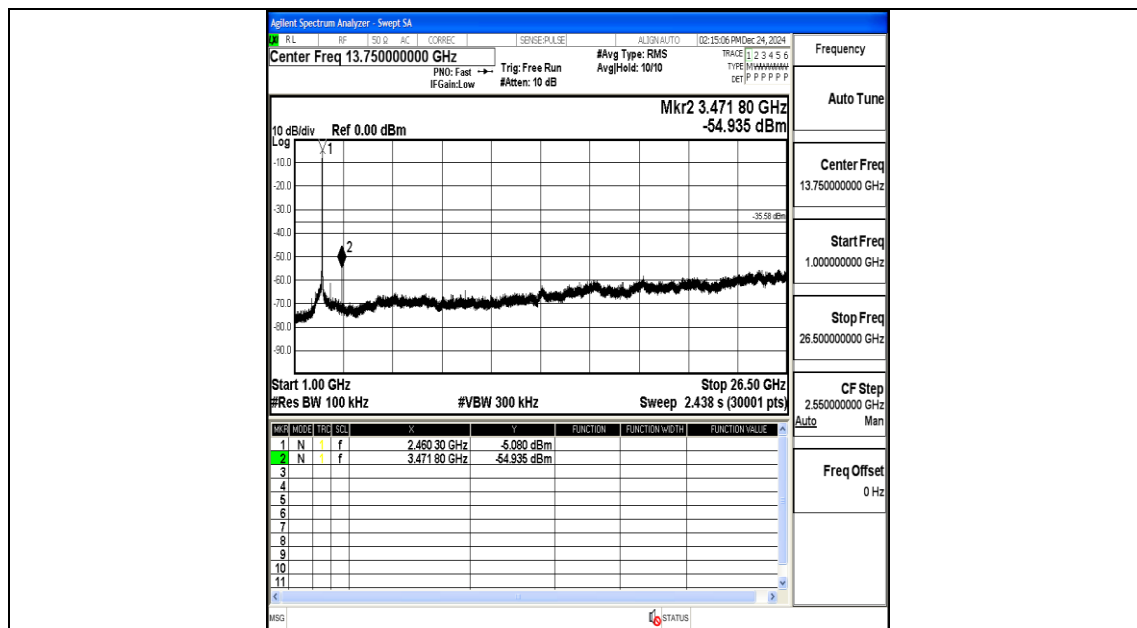
11G-Ant1-2437-1000~26500-PASS



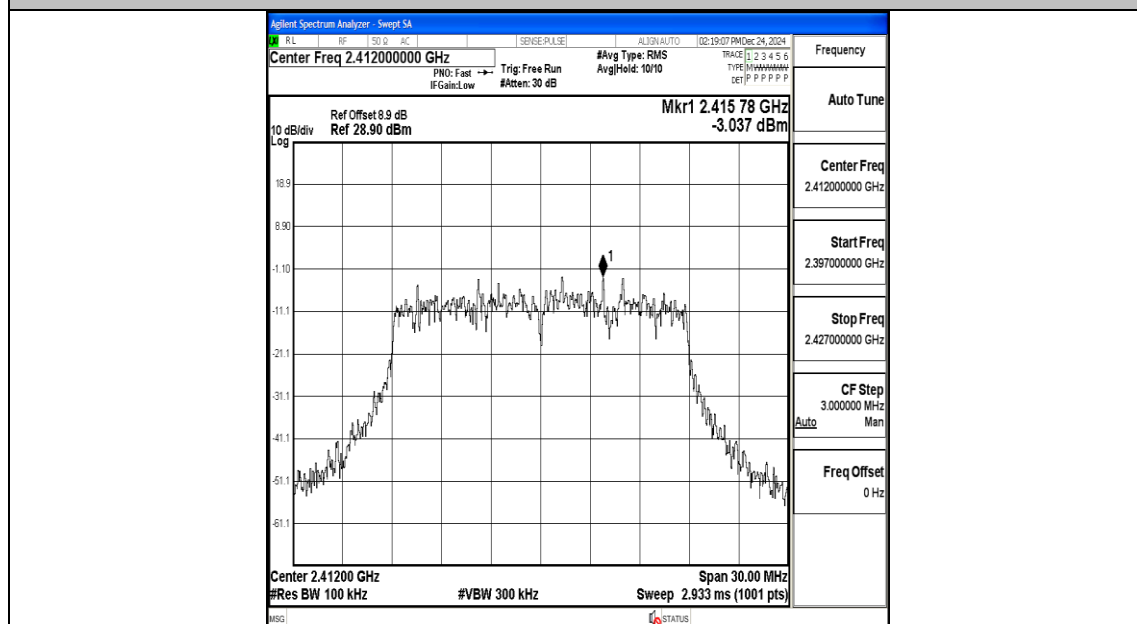
11G-Ant1-2462-0~Reference-PASS



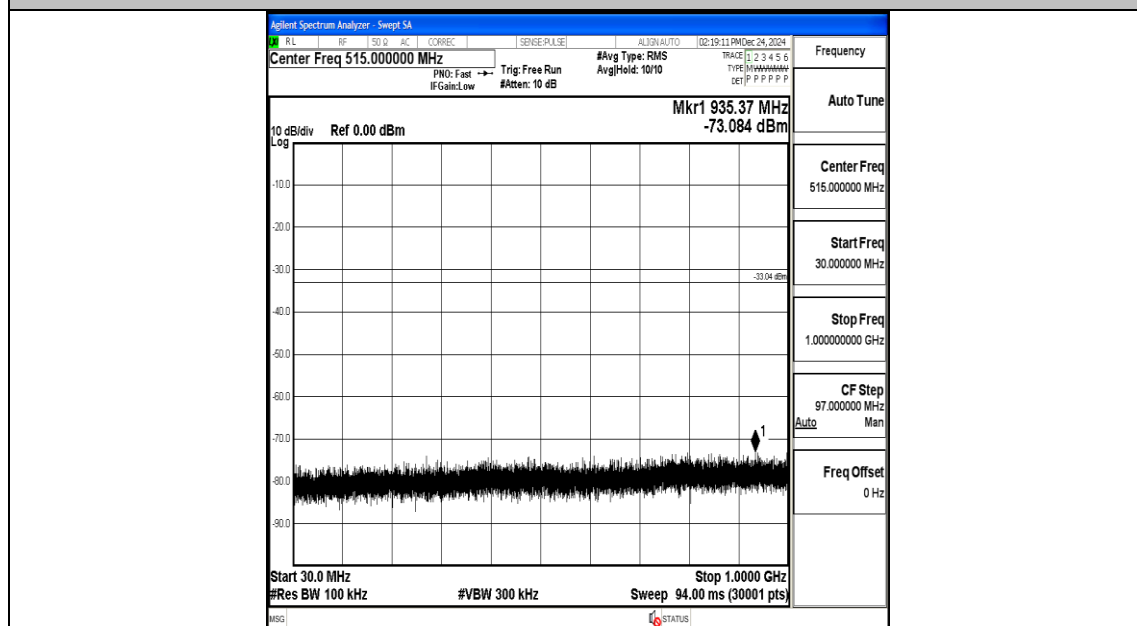
11G-Ant1-2462-30~1000-PASS



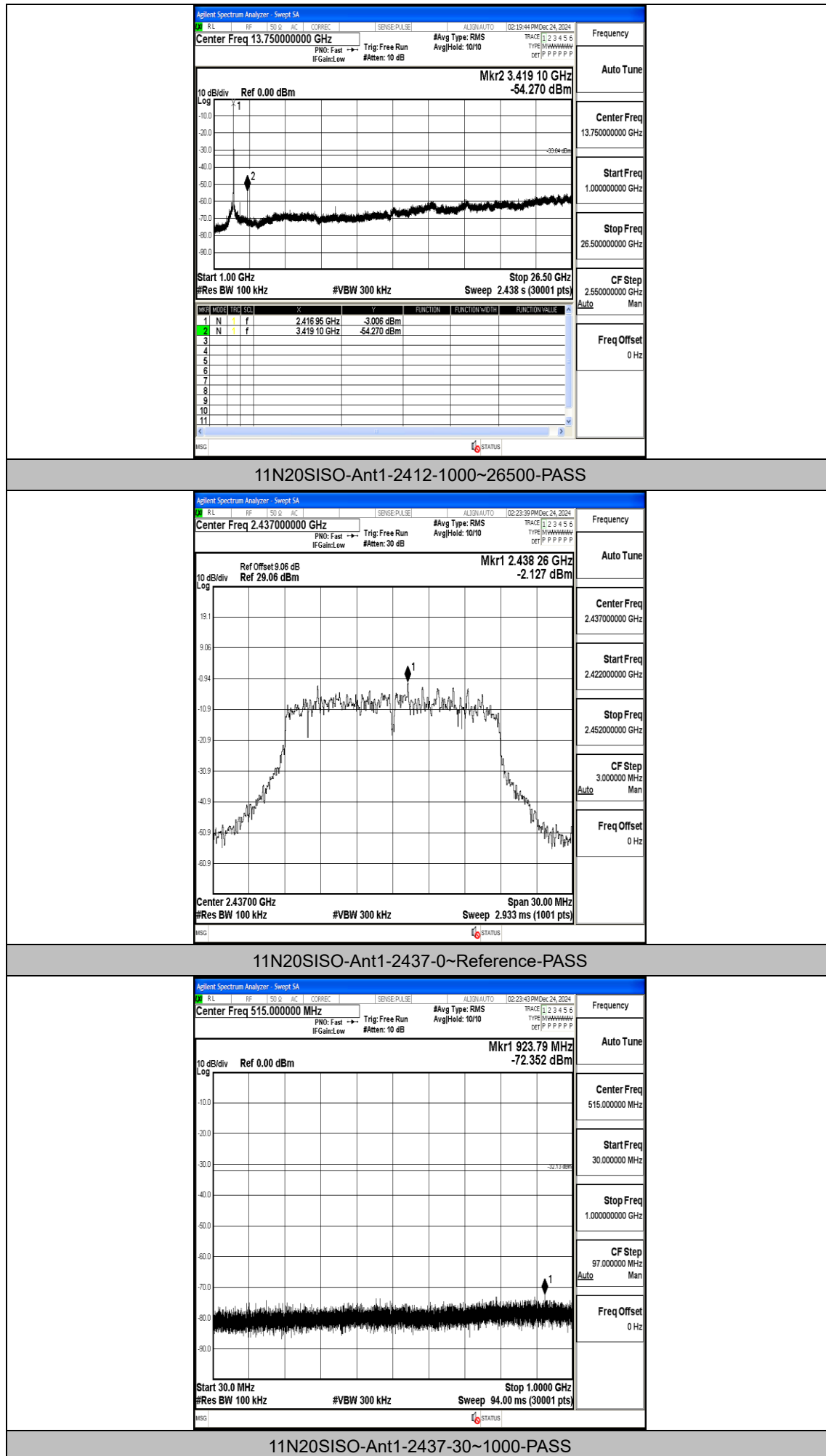
11G-Ant1-2462-1000~26500-PASS

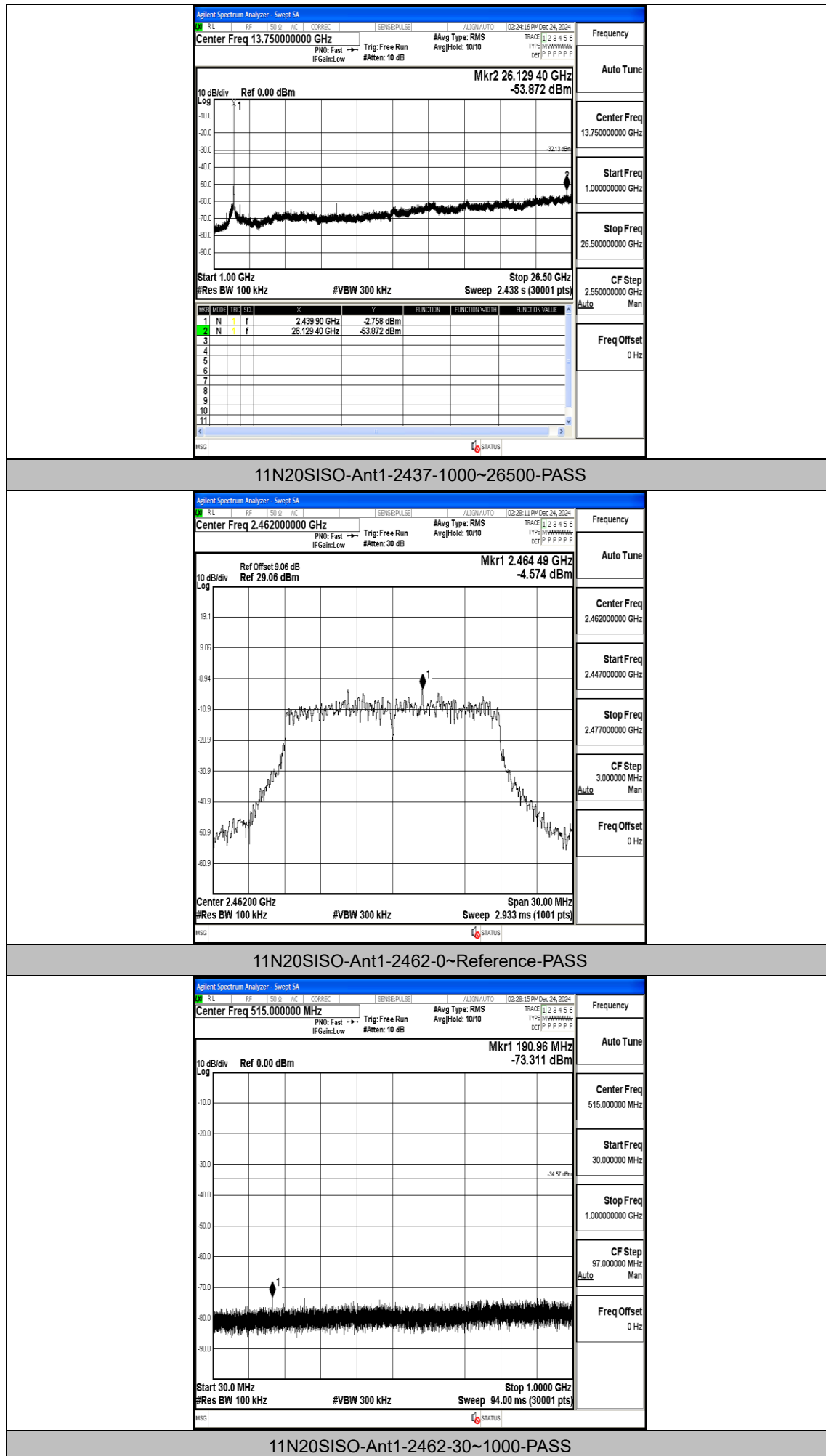


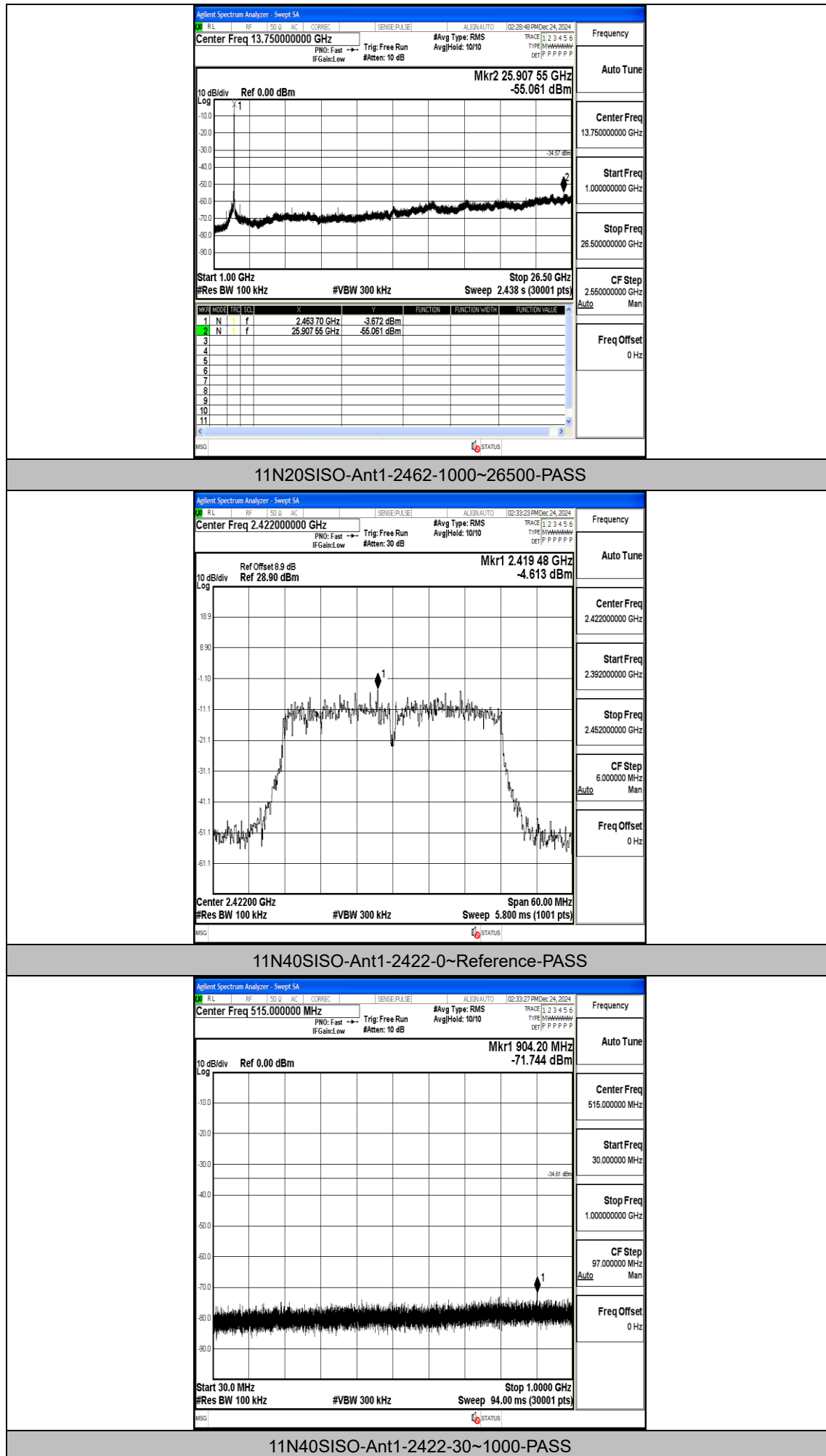
11N20SISO-Ant1-2412-0~Reference-PASS

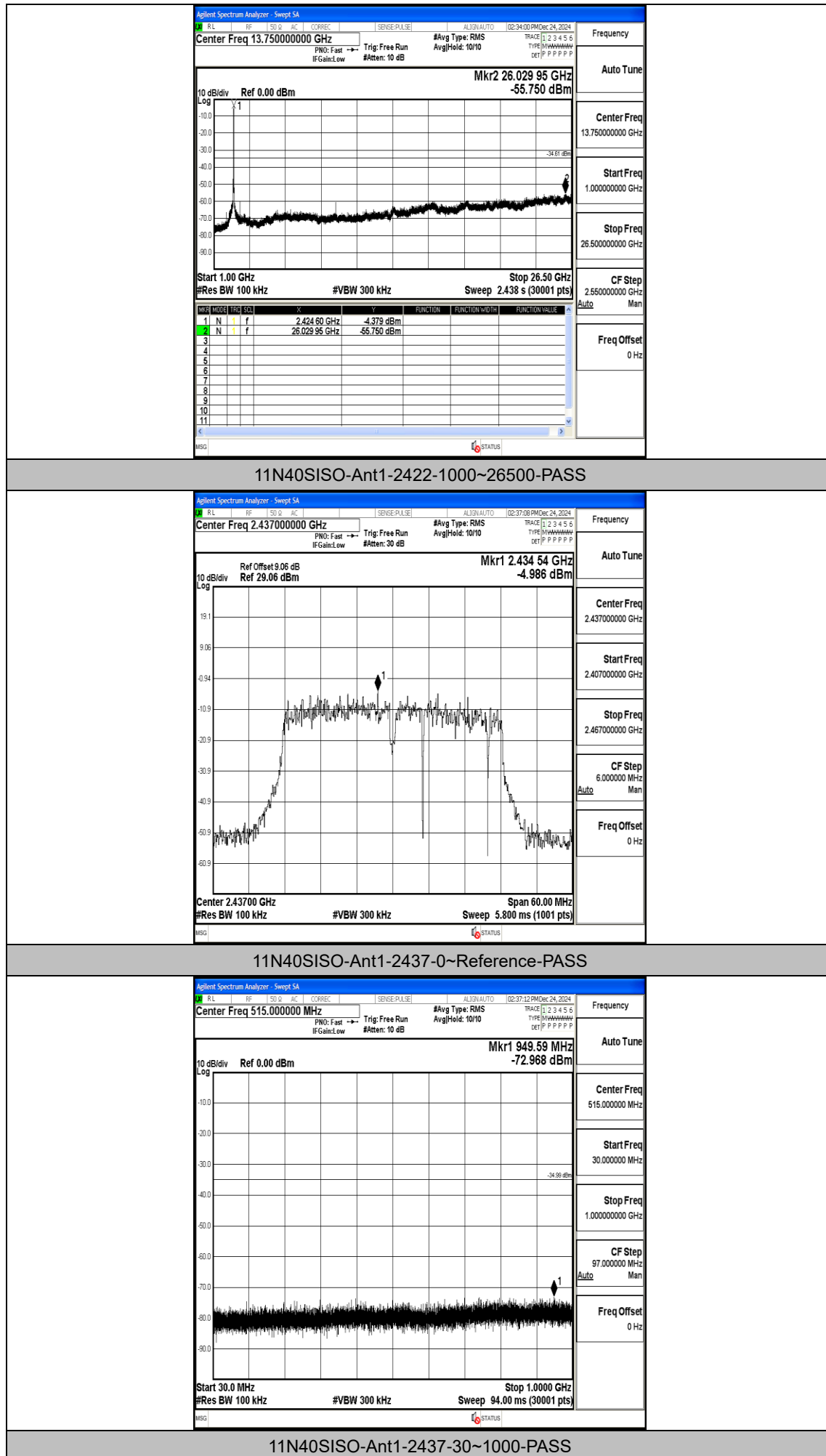


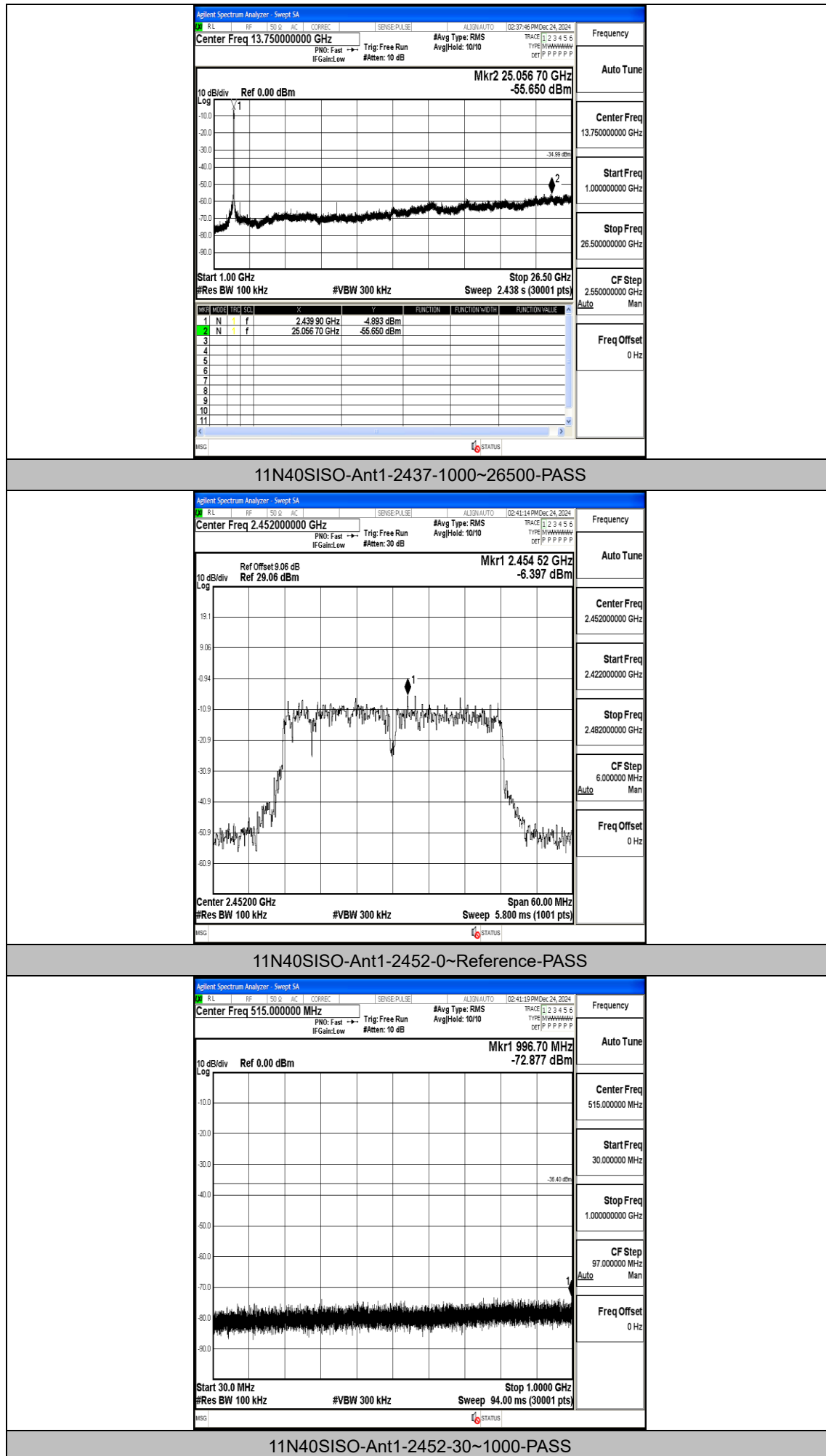
11N20SISO-Ant1-2412-30~1000-PASS

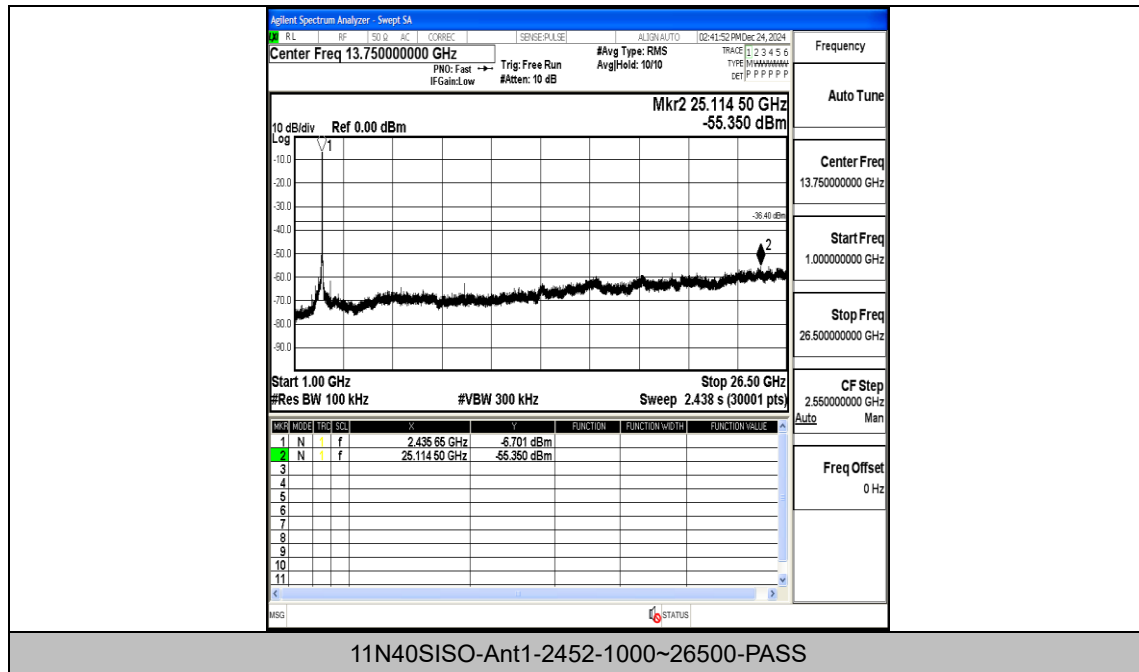












Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.43	12.79	97.19	0.12
11B	Ant1	2437	12.41	12.76	97.26	0.12
11B	Ant1	2462	12.42	12.78	97.18	0.12
11G	Ant1	2412	2.07	2.27	91.19	0.40
11G	Ant1	2437	2.06	2.24	91.96	0.36
11G	Ant1	2462	2.06	2.27	90.75	0.42
11N20SISO	Ant1	2412	0.23	0.40	57.50	2.40
11N20SISO	Ant1	2437	0.22	0.34	64.71	1.89
11N20SISO	Ant1	2462	0.23	0.44	52.27	2.82
11N40SISO	Ant1	2422	0.13	0.35	37.14	4.30
11N40SISO	Ant1	2437	0.13	0.35	37.14	4.30
11N40SISO	Ant1	2452	0.13	0.36	36.11	4.42

Test Graphs

