

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

Product Name: Motorcycle DVR Dash Camera

Trade Mark: HFK

Test Model: HM702

FCC ID: 2BFHY-HM702

Environmental Conditions

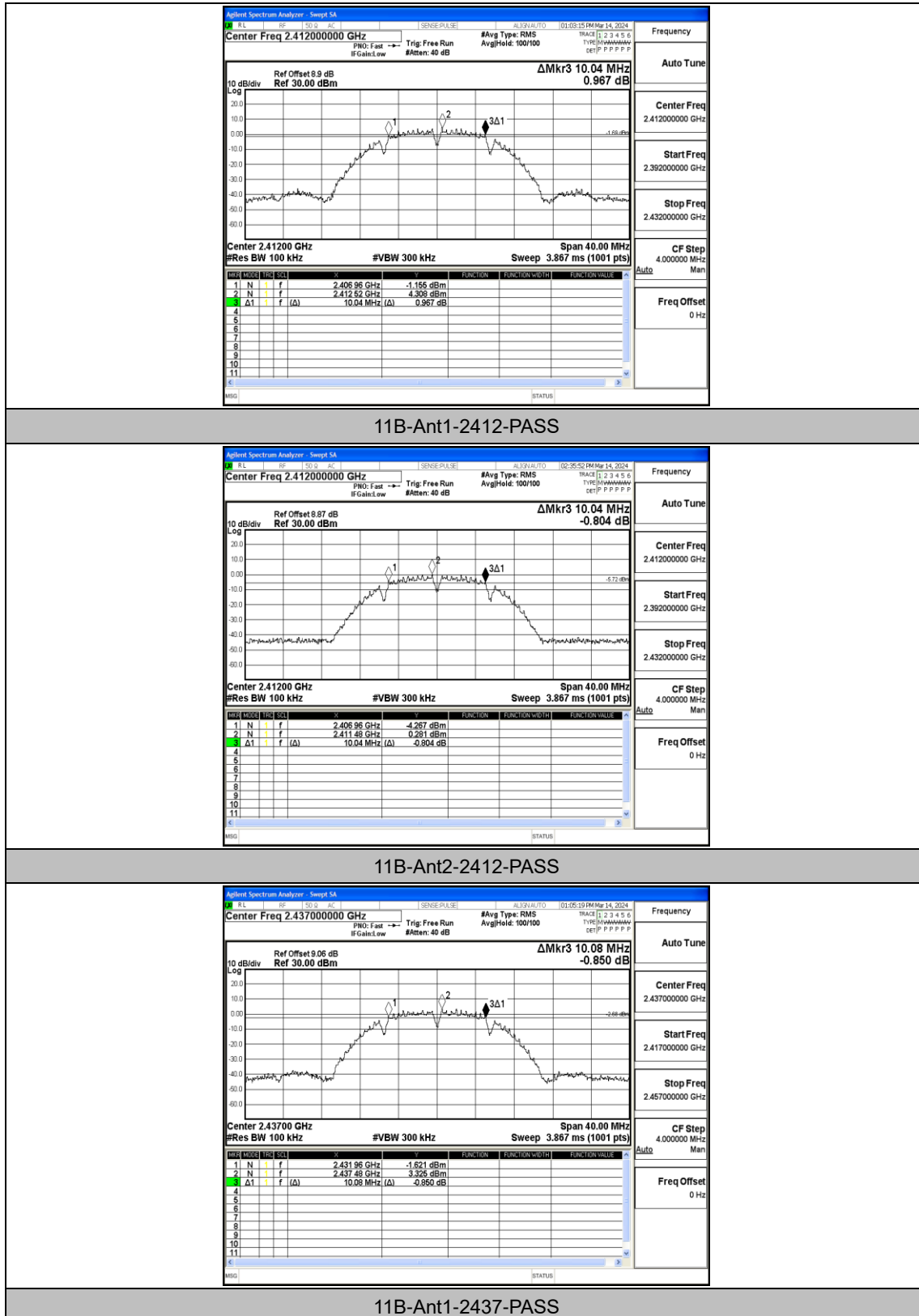
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

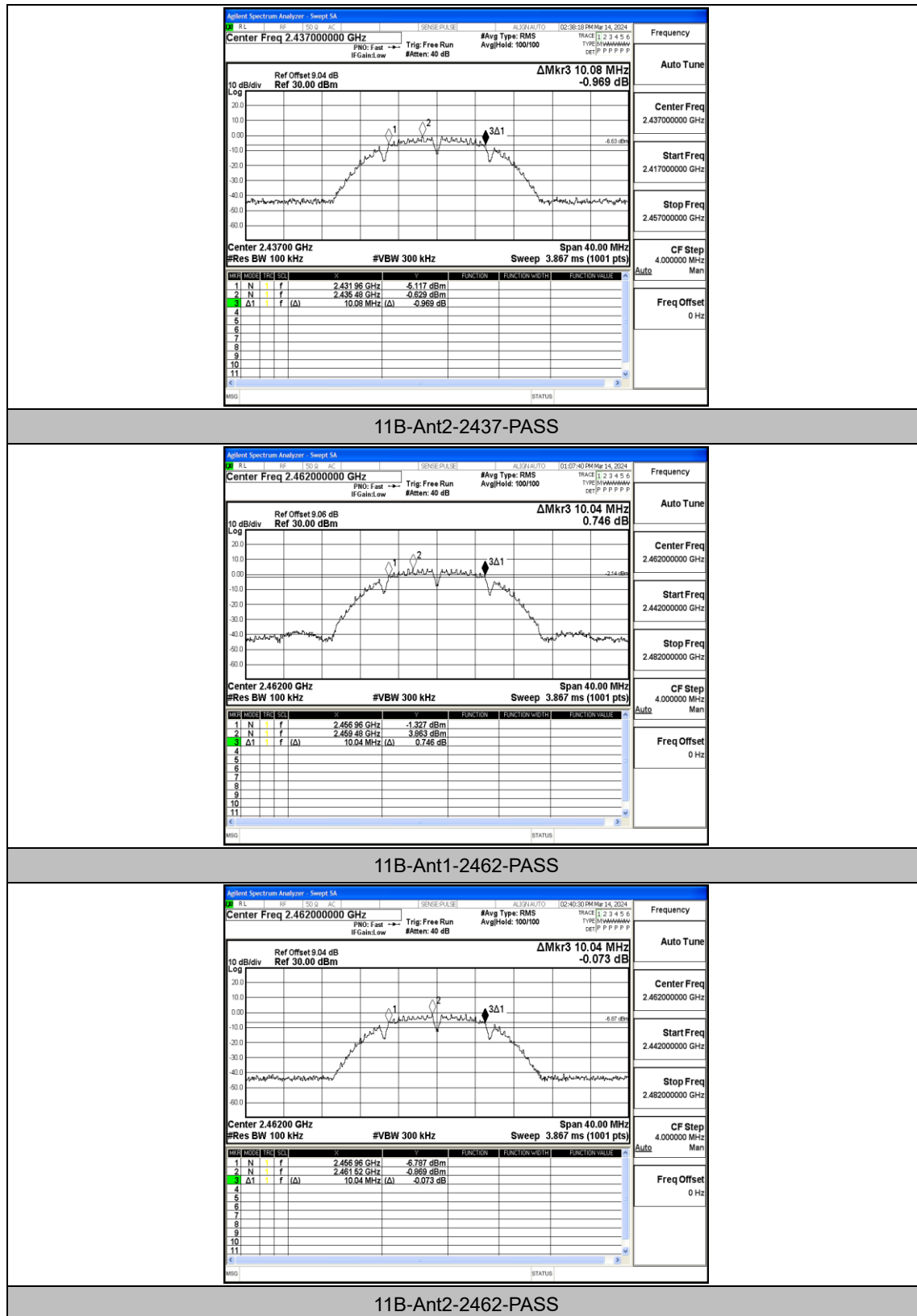
Appendix A: DTS Bandwidth

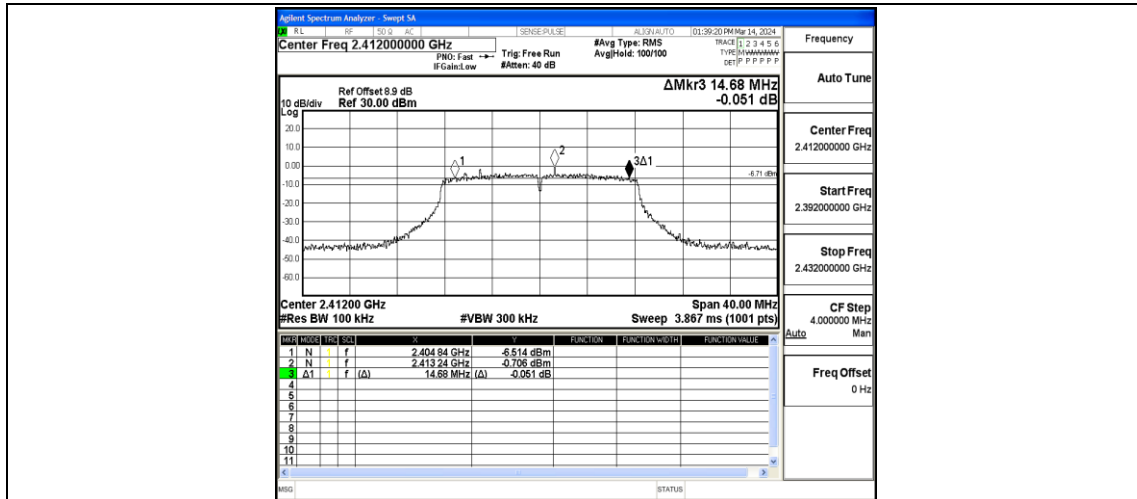
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2406.960	2417.000	0.5	PASS
11B	Ant2	2412	10.040	2406.960	2417.000	0.5	PASS
11B	Ant1	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant2	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant1	2462	10.040	2456.960	2467.000	0.5	PASS
11B	Ant2	2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	14.680	2404.840	2419.520	0.5	PASS
11G	Ant2	2412	16.320	2403.840	2420.160	0.5	PASS
11G	Ant1	2437	15.640	2429.240	2444.880	0.5	PASS
11G	Ant2	2437	15.080	2429.440	2444.520	0.5	PASS
11G	Ant1	2462	16.280	2453.840	2470.120	0.5	PASS
11G	Ant2	2462	16.240	2453.880	2470.120	0.5	PASS
11N20MIMO	Ant1	2412	15.240	2404.480	2419.720	0.5	PASS
11N20MIMO	Ant2	2412	16.760	2403.640	2420.400	0.5	PASS
11N20MIMO	Ant1	2437	16.640	2428.480	2445.120	0.5	PASS
11N20MIMO	Ant2	2437	14.680	2429.120	2443.800	0.5	PASS
11N20MIMO	Ant1	2462	16.040	2453.480	2469.520	0.5	PASS
11N20MIMO	Ant2	2462	16.240	2453.520	2469.760	0.5	PASS
11N40MIMO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
11N40MIMO	Ant2	2422	33.360	2404.480	2437.840	0.5	PASS
11N40MIMO	Ant1	2437	35.040	2419.480	2454.520	0.5	PASS
11N40MIMO	Ant2	2437	34.880	2419.640	2454.520	0.5	PASS
11N40MIMO	Ant1	2452	35.120	2434.400	2469.520	0.5	PASS
11N40MIMO	Ant2	2452	32.640	2435.680	2468.320	0.5	PASS

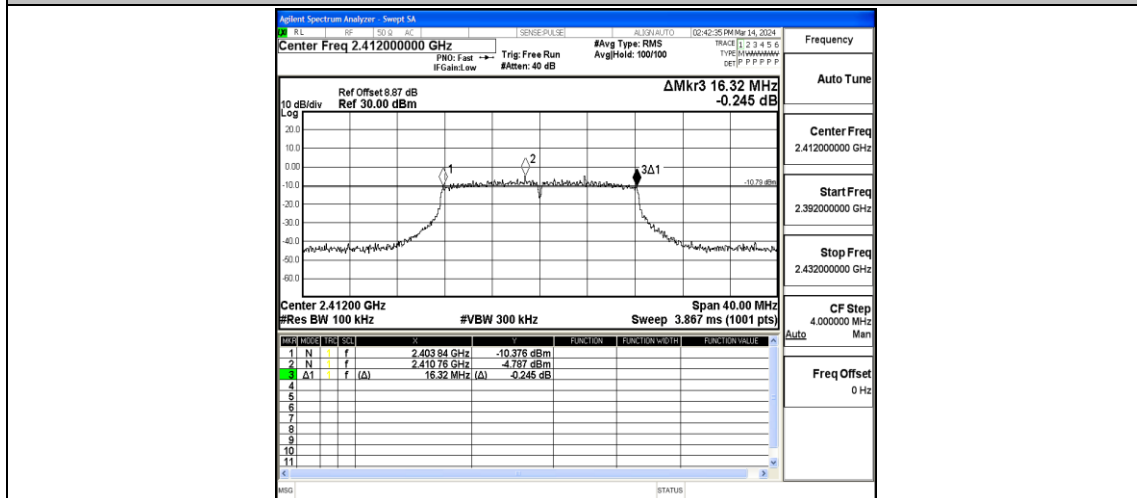
Test Graphs



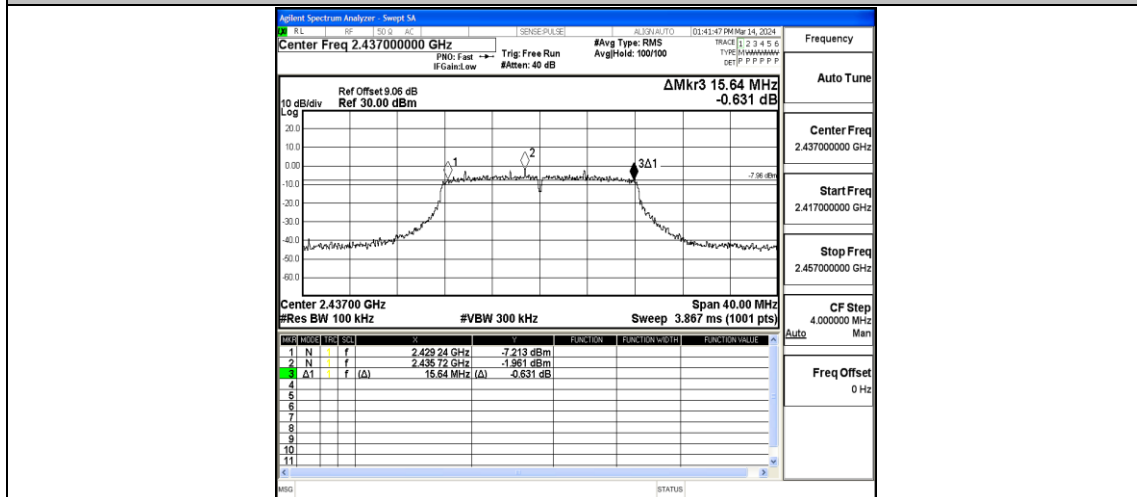




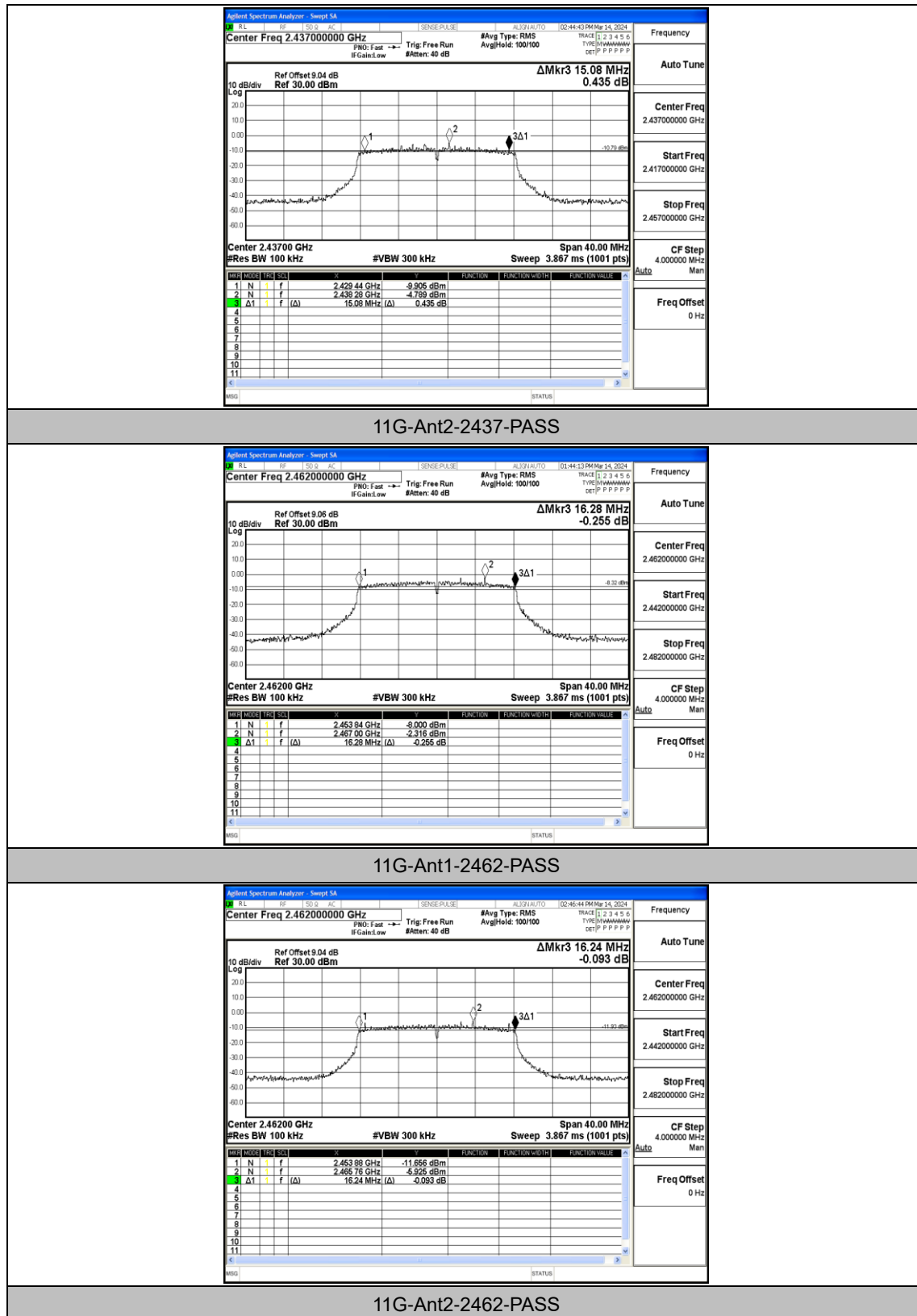
11G-Ant1-2412-PASS

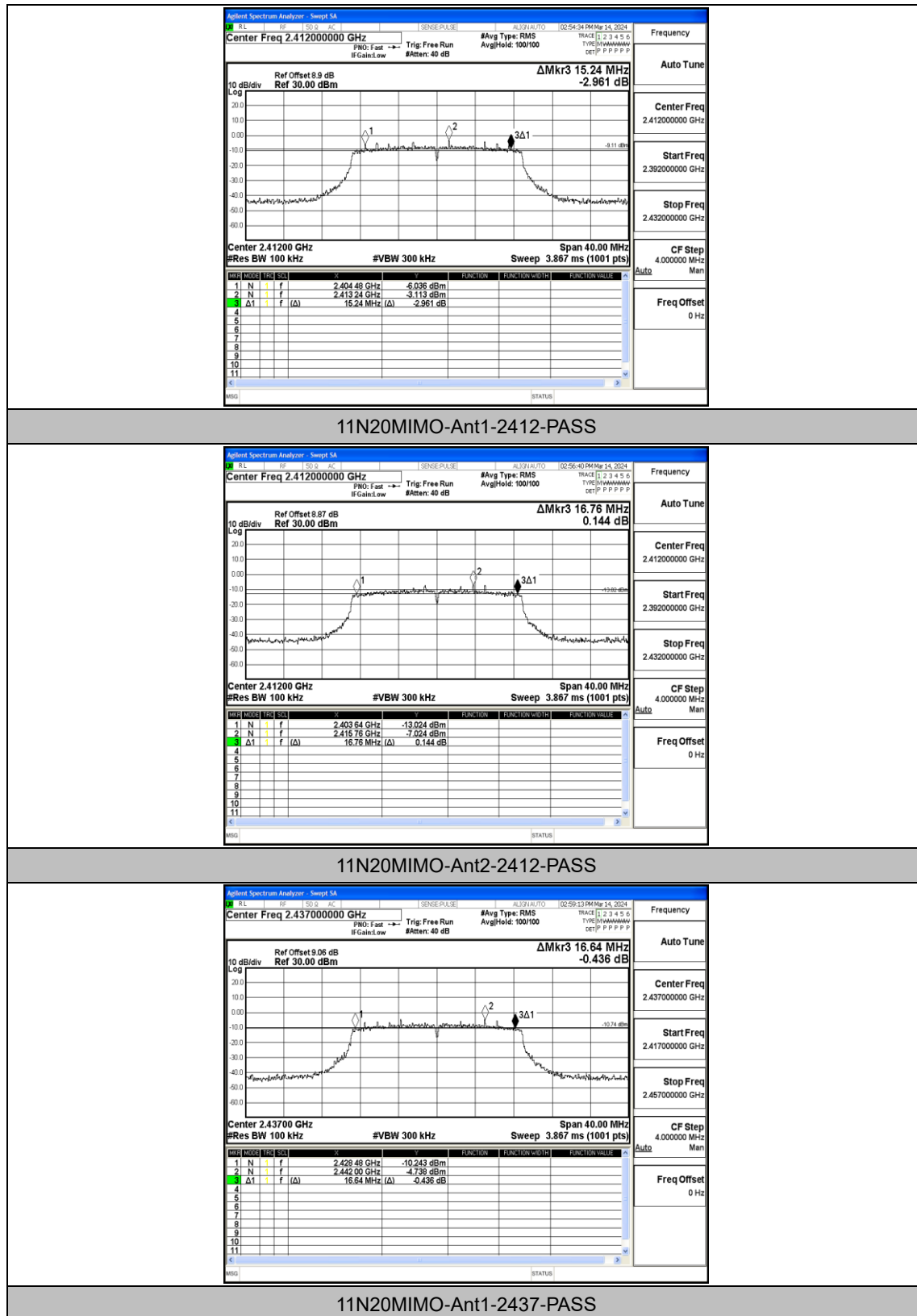


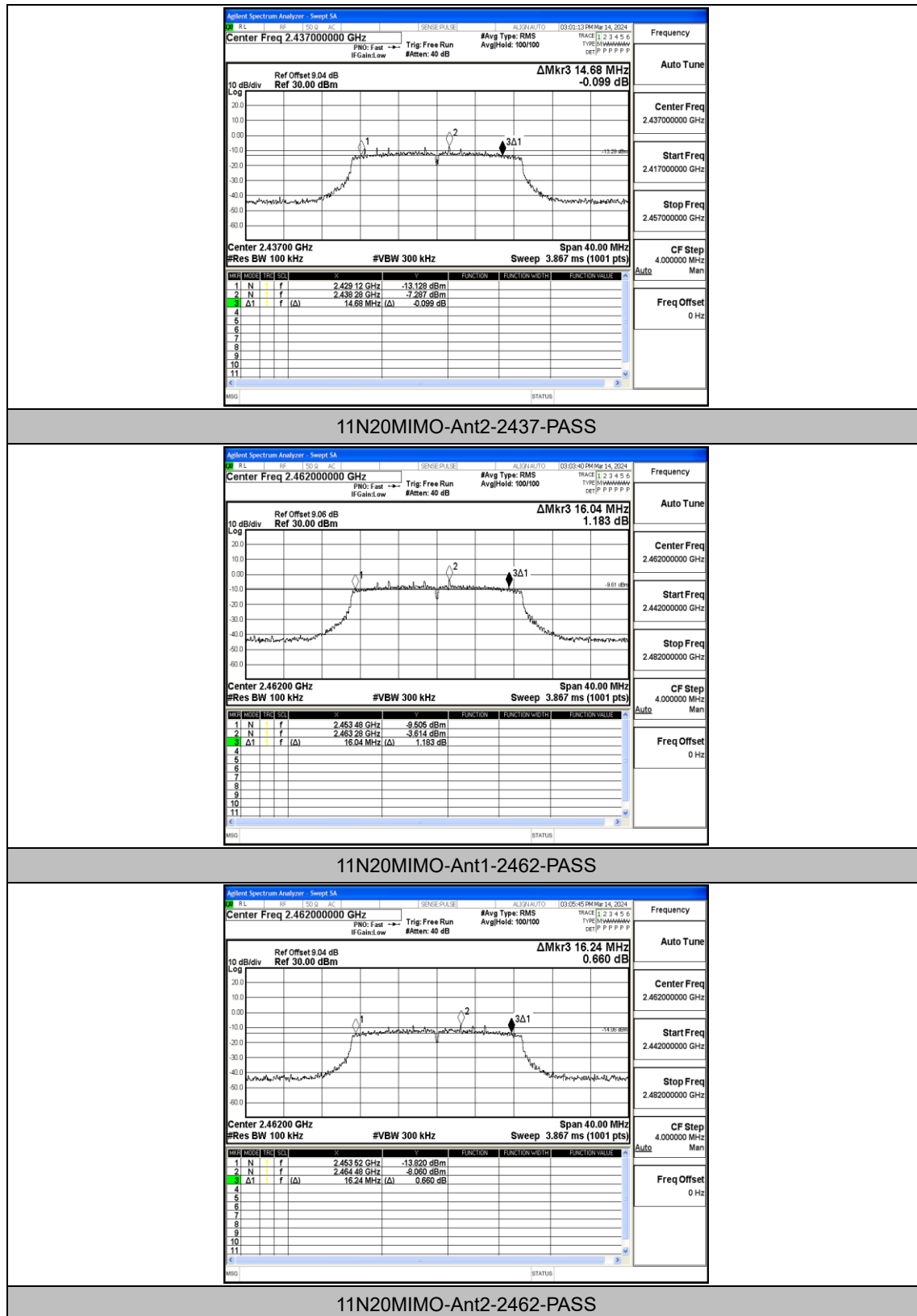
11G-Ant2-2412-PASS

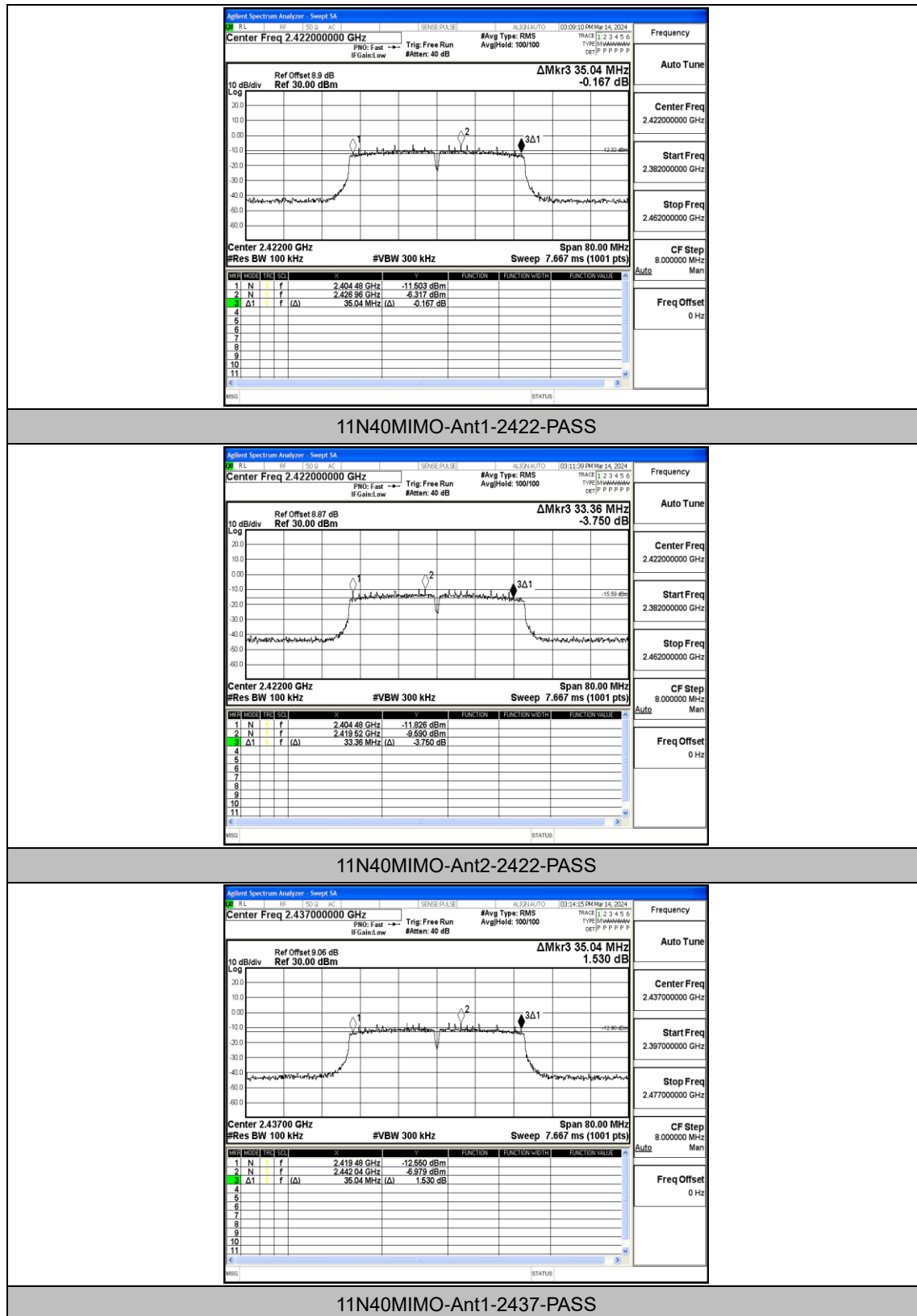


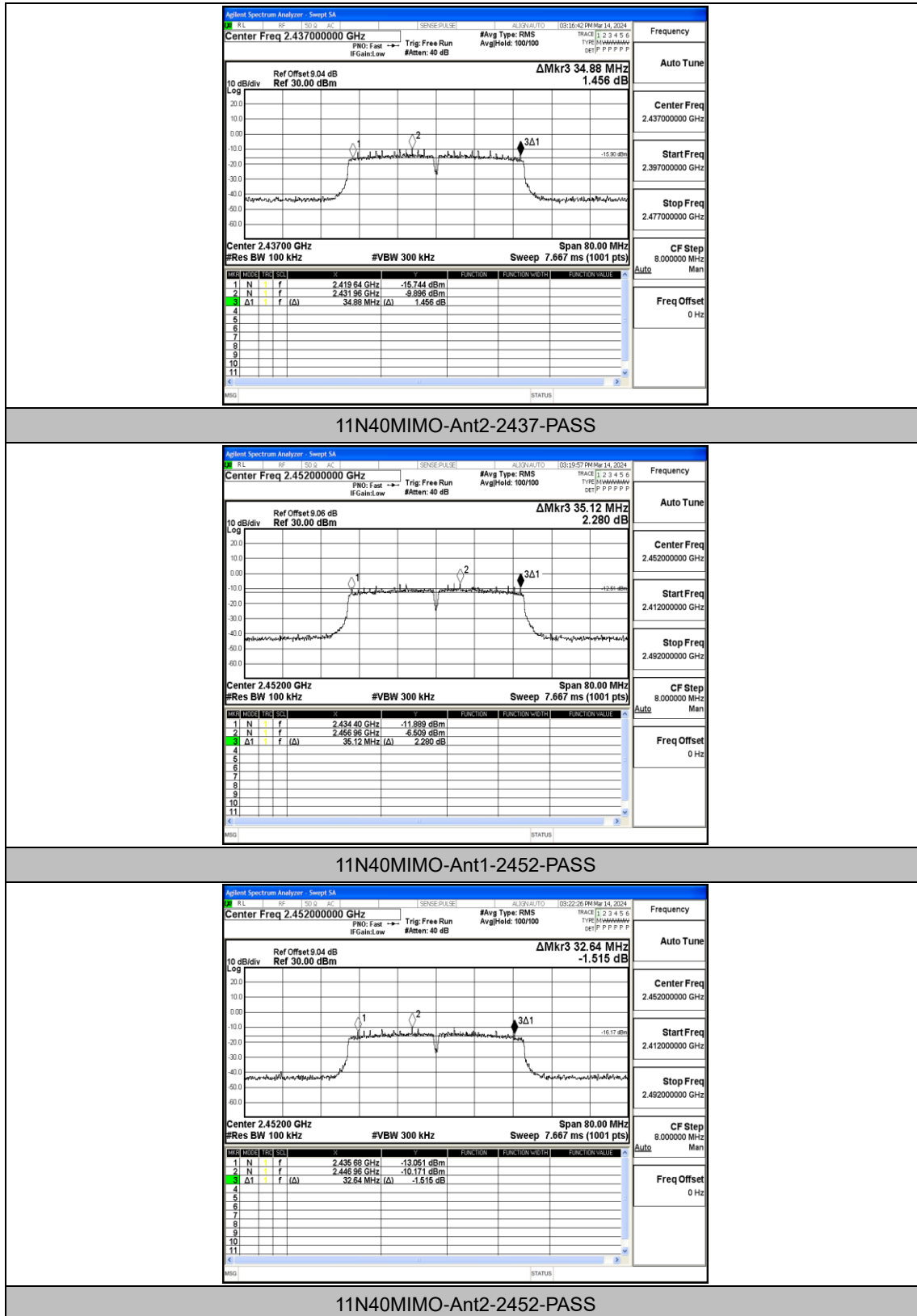
11G-Ant1-2437-PASS









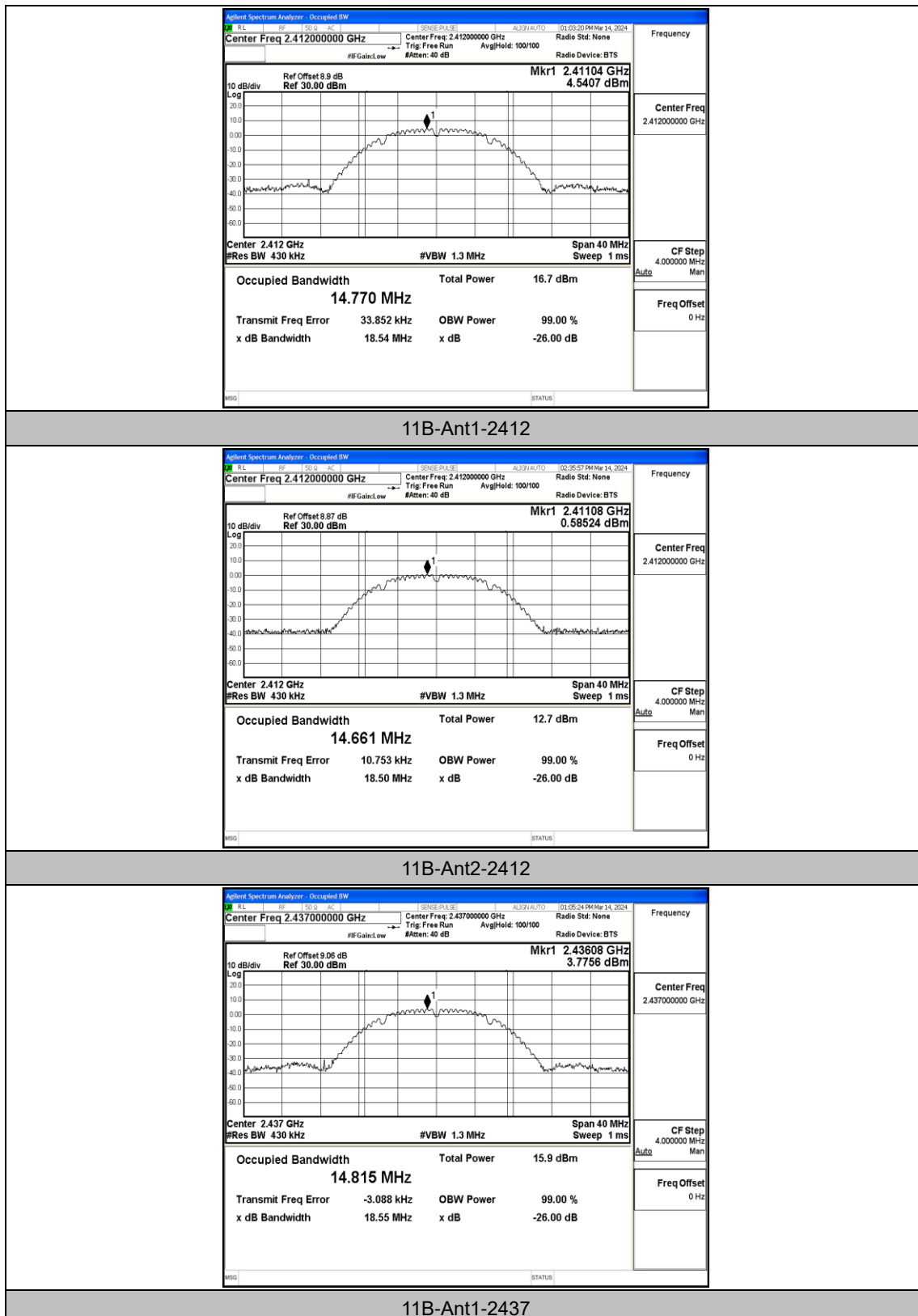


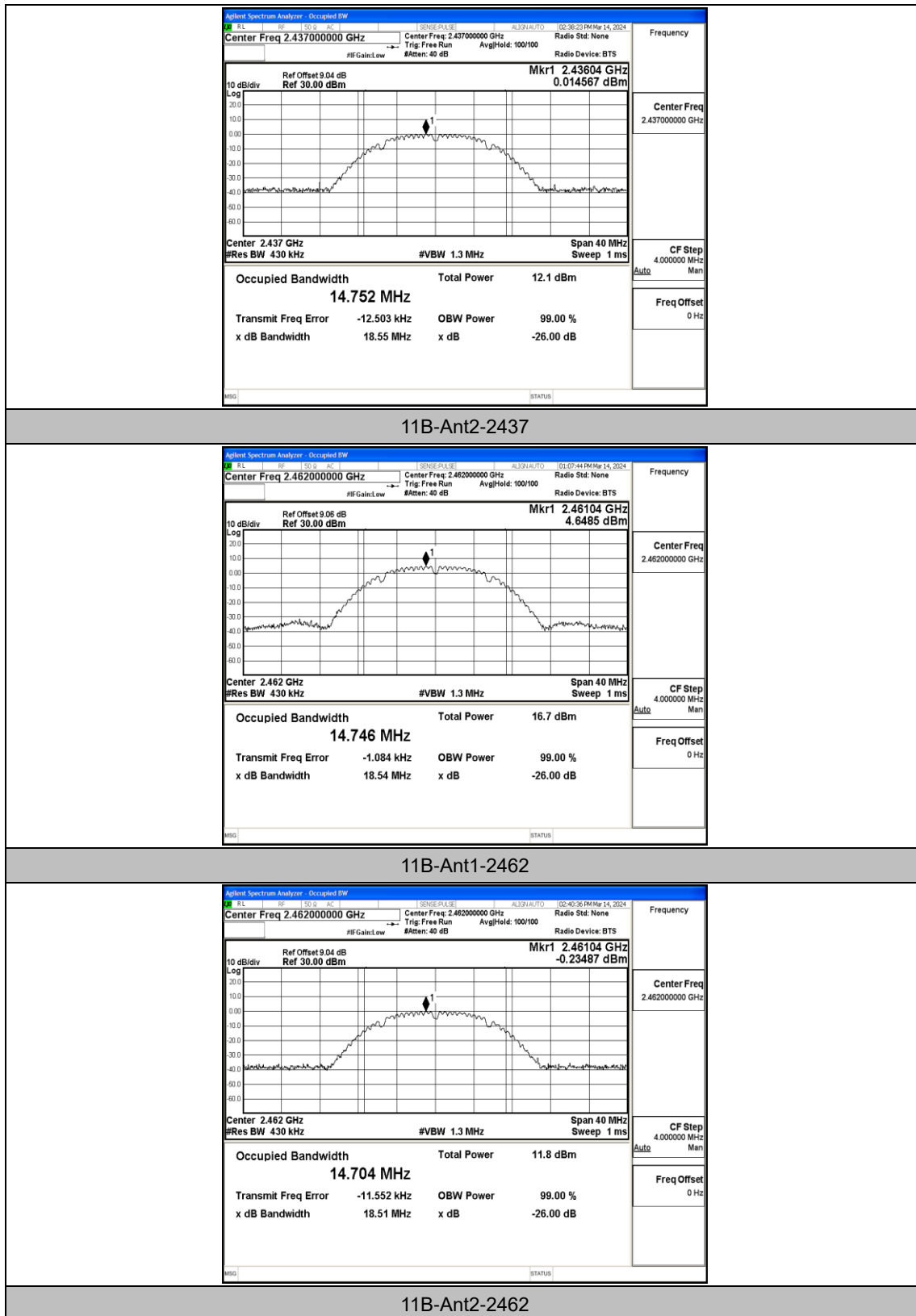
Appendix B: Occupied Channel Bandwidth

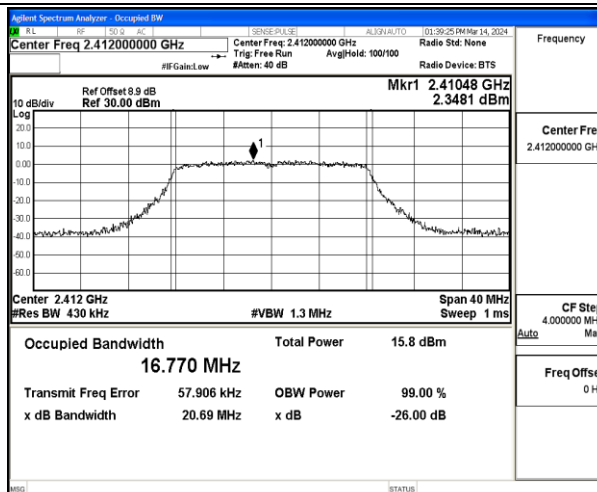
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.770	2404.6489	2419.4189	---	---
11B	Ant2	2412	14.661	2404.6803	2419.3413	---	---
11B	Ant1	2437	14.815	2429.5894	2444.4044	---	---
11B	Ant2	2437	14.752	2429.6115	2444.3635	---	---
11B	Ant1	2462	14.746	2454.6259	2469.3719	---	---
11B	Ant2	2462	14.704	2454.6365	2469.3405	---	---
11G	Ant1	2412	16.770	2403.6729	2420.4429	---	---
11G	Ant2	2412	16.636	2403.7150	2420.3510	---	---
11G	Ant1	2437	16.795	2428.6464	2445.4414	---	---
11G	Ant2	2437	16.624	2428.7053	2445.3293	---	---
11G	Ant1	2462	16.731	2453.6757	2470.4067	---	---
11G	Ant2	2462	16.648	2453.7160	2470.3640	---	---
11N20MIMO	Ant1	2412	17.873	2403.1117	2420.9847	---	---
11N20MIMO	Ant2	2412	17.879	2403.0809	2420.9599	---	---
11N20MIMO	Ant1	2437	17.845	2428.0654	2445.9104	---	---
11N20MIMO	Ant2	2437	17.890	2428.0490	2445.9390	---	---
11N20MIMO	Ant1	2462	17.949	2453.0728	2471.0218	---	---
11N20MIMO	Ant2	2462	17.963	2453.0992	2471.0622	---	---
11N40MIMO	Ant1	2422	36.058	2404.0155	2440.0735	---	---
11N40MIMO	Ant2	2422	36.131	2403.9538	2440.0848	---	---
11N40MIMO	Ant1	2437	36.327	2418.9039	2455.2309	---	---
11N40MIMO	Ant2	2437	36.277	2418.8681	2455.1451	---	---
11N40MIMO	Ant1	2452	36.276	2433.9441	2470.2201	---	---
11N40MIMO	Ant2	2452	36.345	2433.8917	2470.2367	---	---

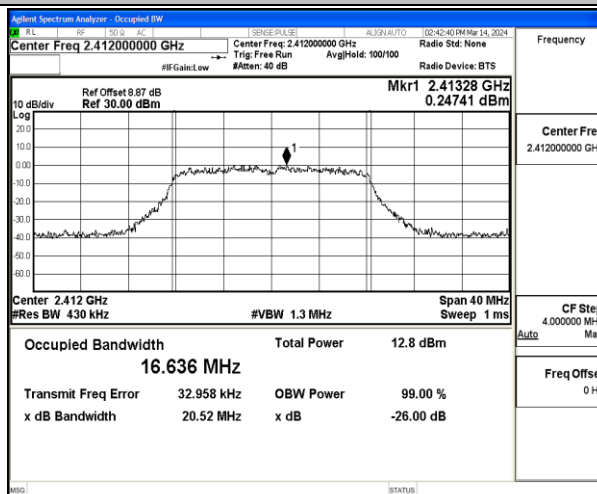
Test Graphs



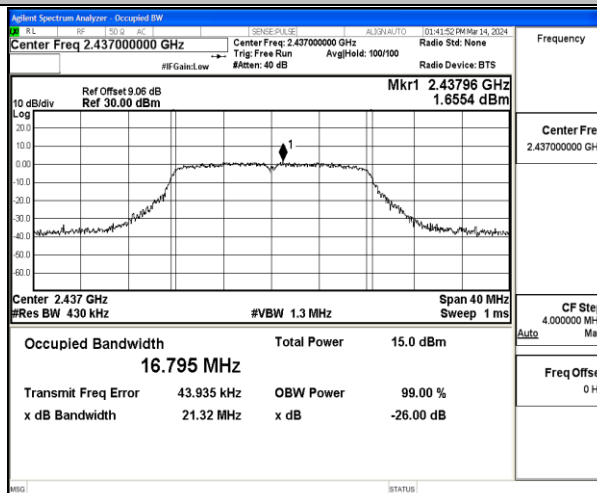




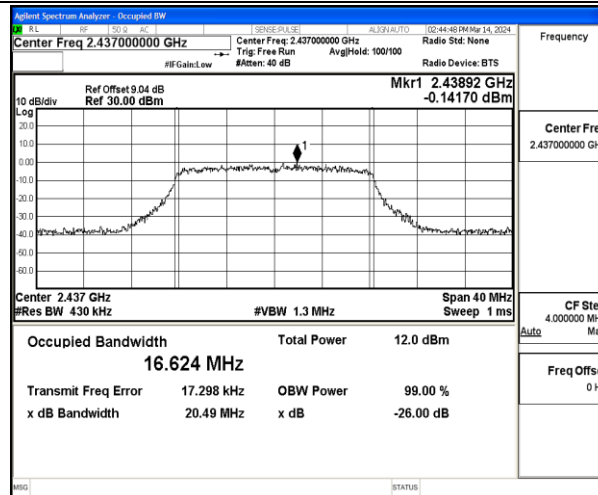
11G-Ant1-2412



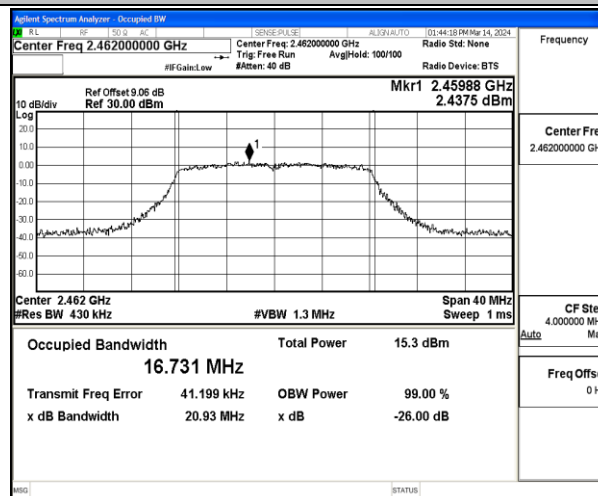
11G-Ant2-2412



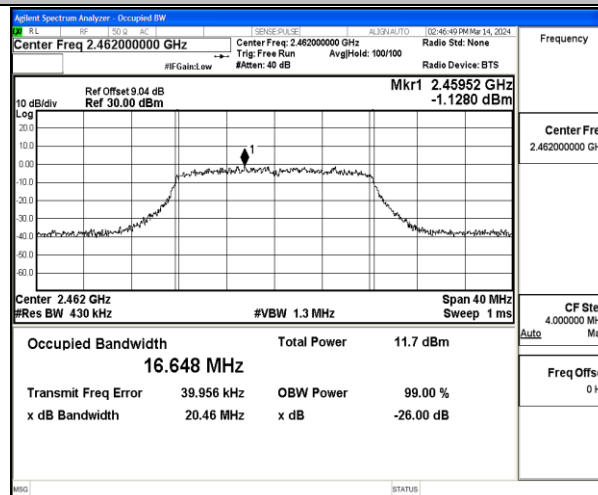
11G-Ant1-2437



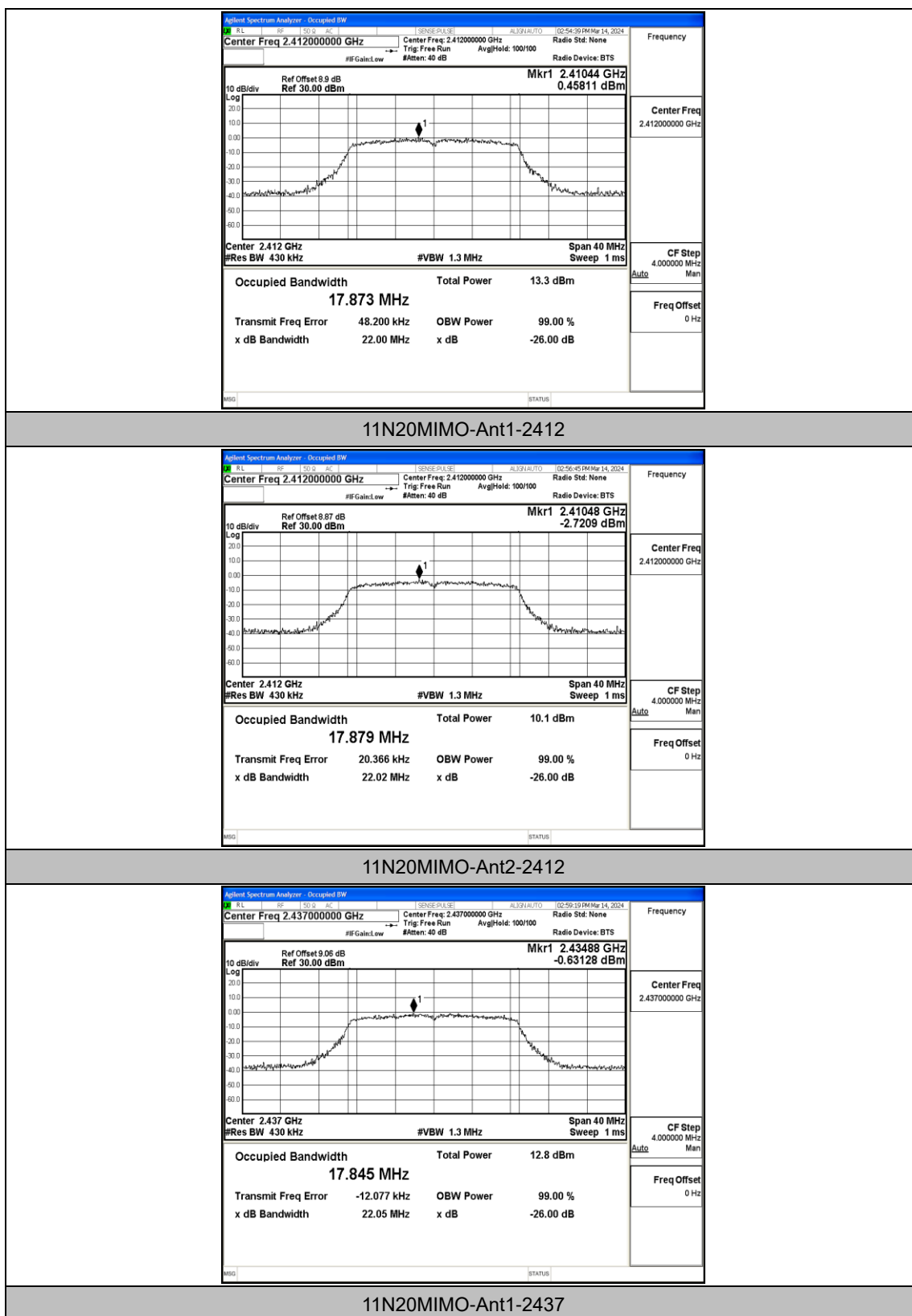
11G-Ant2-2437

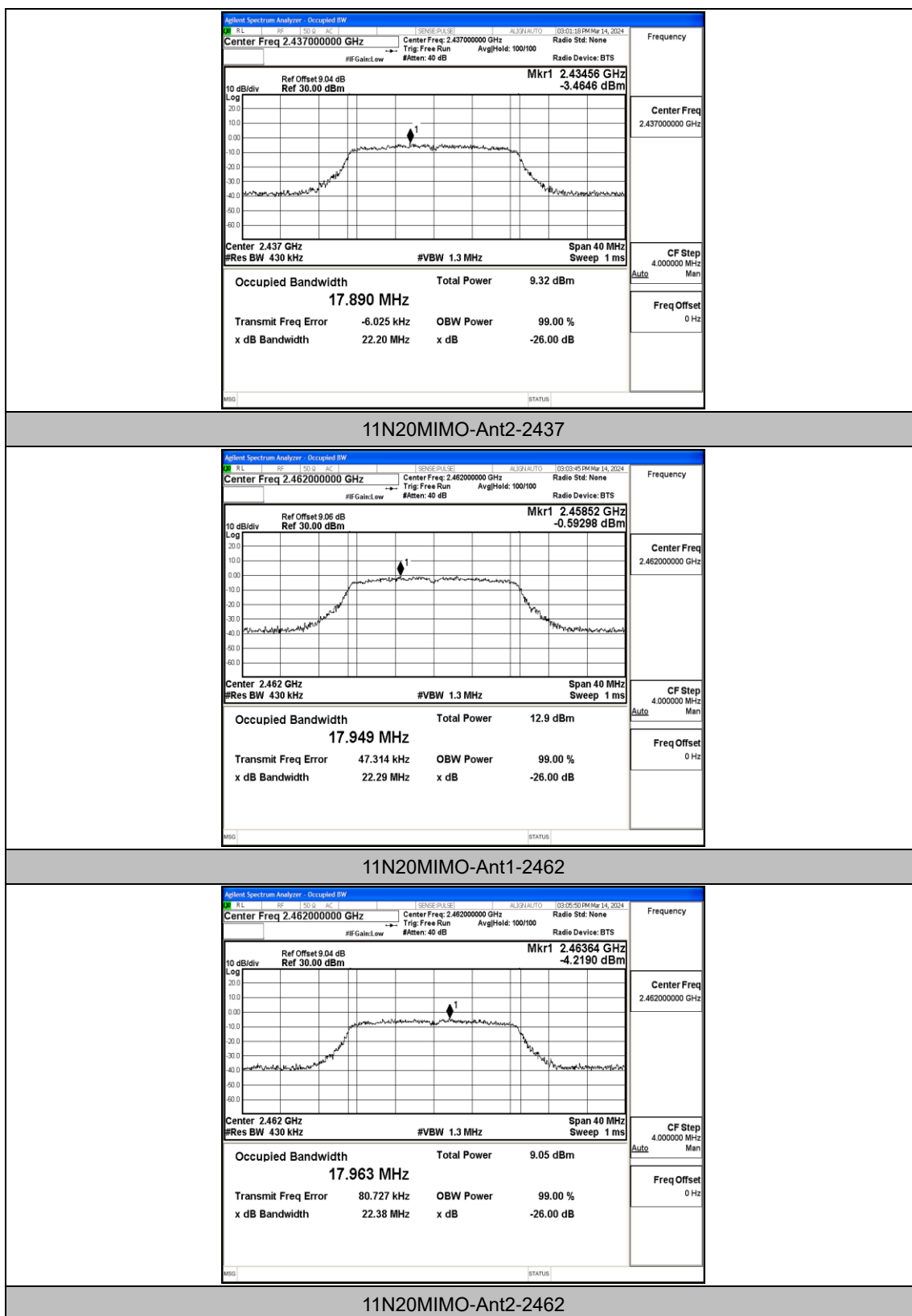


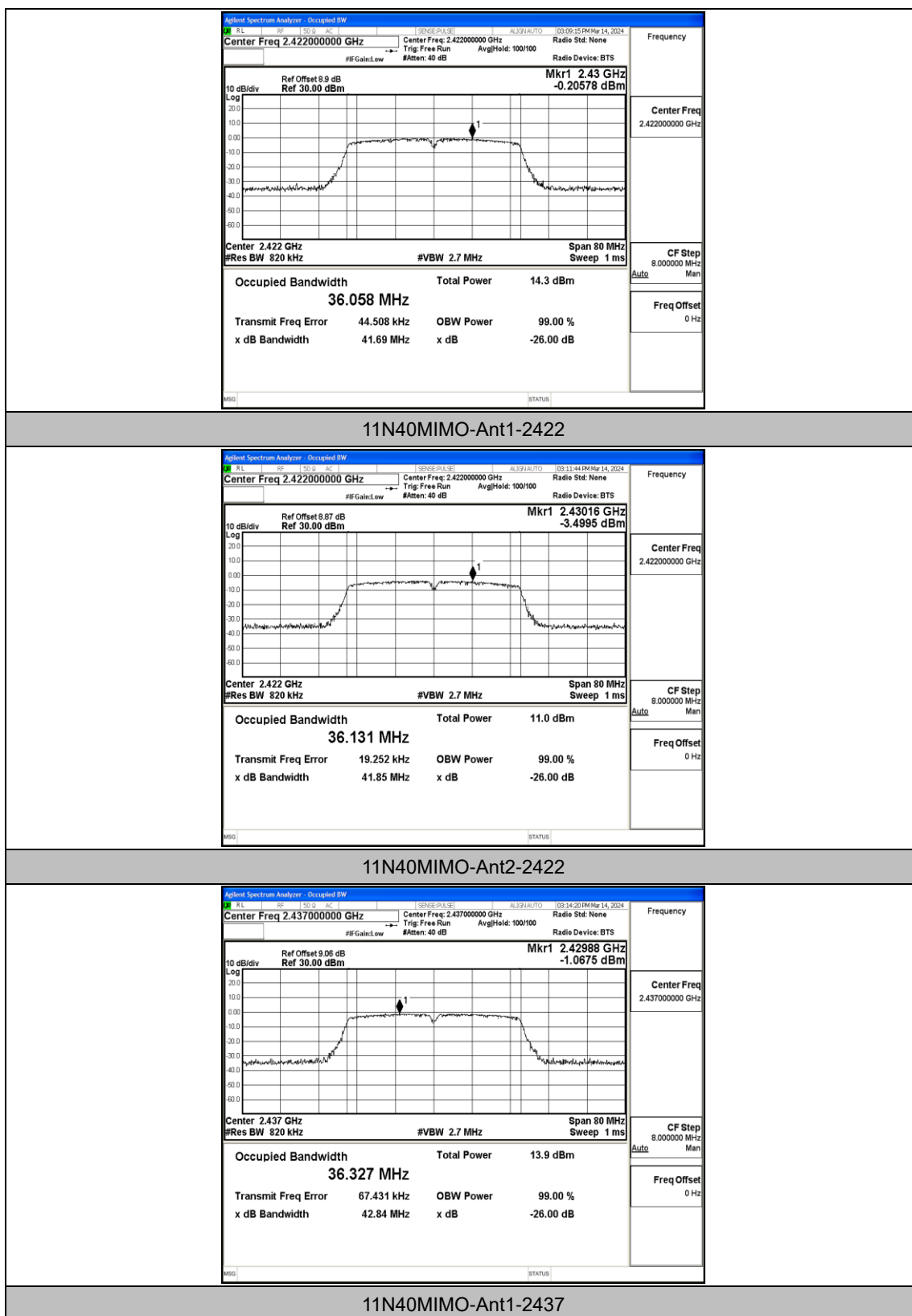
11G-Ant1-2462

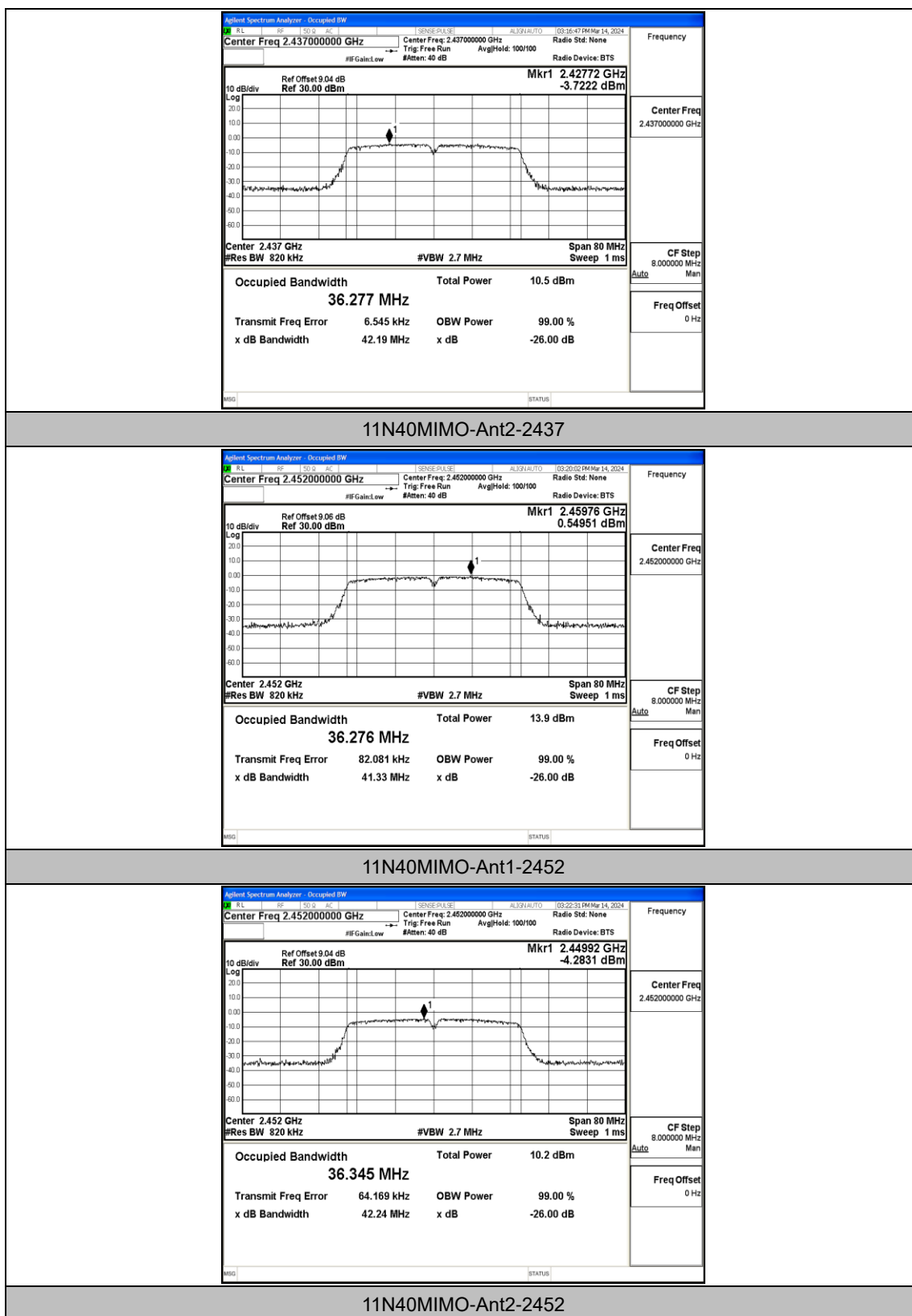


11G-Ant2-2462









Appendix C: Maximum Average conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	16.23	≤30.00	PASS
11B	Ant2	2412	12.26	≤30.00	PASS
11B	Ant1	2437	15.50	≤30.00	PASS
11B	Ant2	2437	11.73	≤30.00	PASS
11B	Ant1	2462	16.29	≤30.00	PASS
11B	Ant2	2462	11.42	≤30.00	PASS
11G	Ant1	2412	16.59	≤30.00	PASS
11G	Ant2	2412	13.80	≤30.00	PASS
11G	Ant2	2437	12.88	≤30.00	PASS
11G	Ant1	2437	16.02	≤30.00	PASS
11G	Ant2	2462	12.85	≤30.00	PASS
11G	Ant1	2462	16.41	≤30.00	PASS
11N20MIMO	Ant1	2412	14.15	≤30.00	PASS
11N20MIMO	Ant2	2412	11.26	≤30.00	PASS
11N20MIMO	total	2412	15.95	≤30.00	PASS
11N20MIMO	Ant1	2437	13.70	≤30.00	PASS
11N20MIMO	Ant2	2437	10.01	≤30.00	PASS
11N20MIMO	total	2437	15.25	≤30.00	PASS
11N20MIMO	Ant1	2462	13.99	≤30.00	PASS
11N20MIMO	Ant2	2462	10.16	≤30.00	PASS
11N20MIMO	total	2462	15.49	≤30.00	PASS
11N40MIMO	Ant1	2422	14.53	≤30.00	PASS
11N40MIMO	Ant2	2422	11.00	≤30.00	PASS
11N40MIMO	total	2422	16.12	≤30.00	PASS
11N40MIMO	Ant1	2437	14.09	≤30.00	PASS
11N40MIMO	Ant2	2437	10.68	≤30.00	PASS

11N40MIM O	total	2437	15.72	≤30.00	PASS
11N40MIM O	Ant1	2452	14.15	≤30.00	PASS
11N40MIM O	Ant2	2452	10.26	≤30.00	PASS
11N40MIM O	total	2452	15.64	≤30.00	PASS

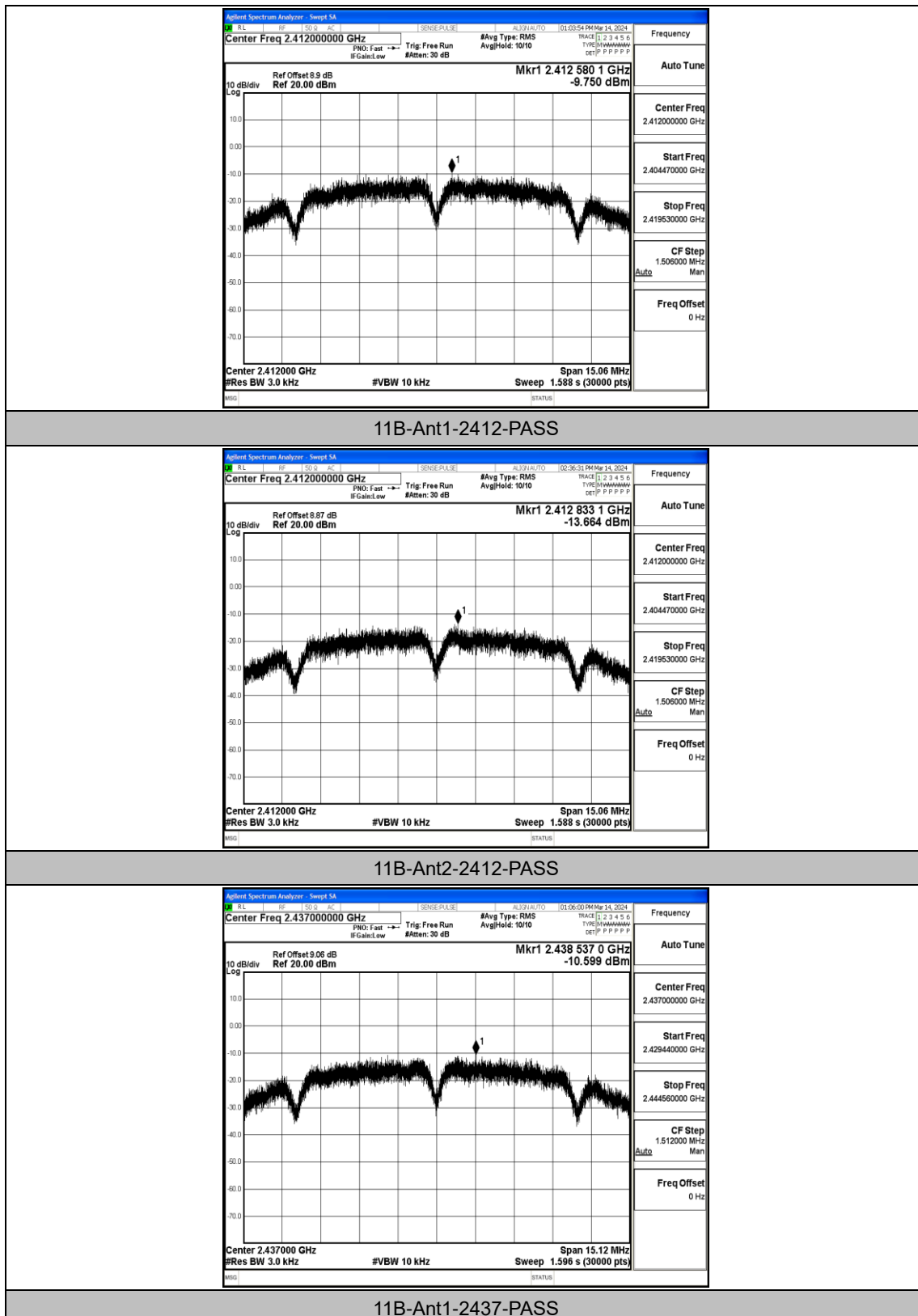
Note: The Duty Cycle Factor is compensated in the result.

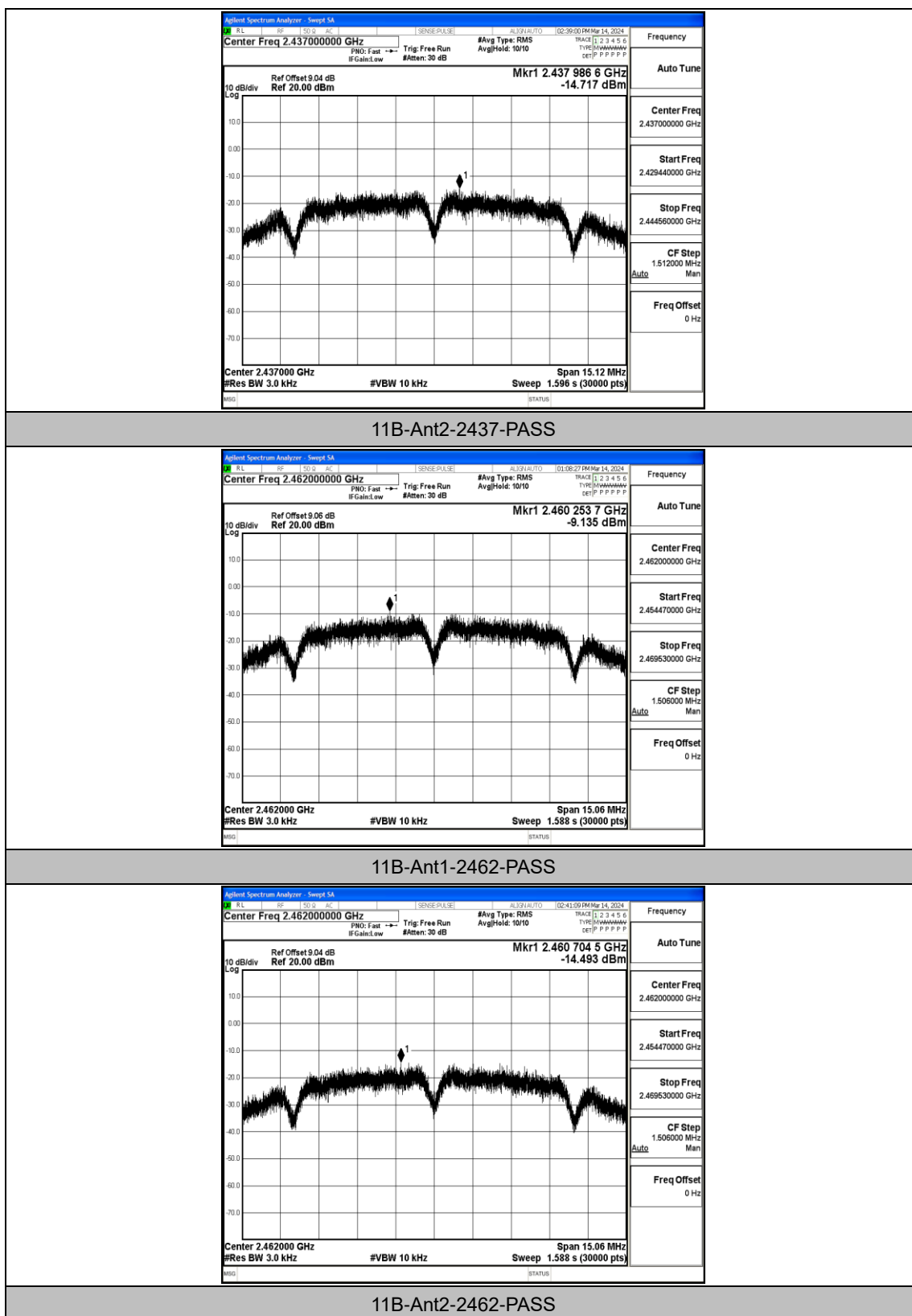
Appendix D: Maximum Average power spectral density

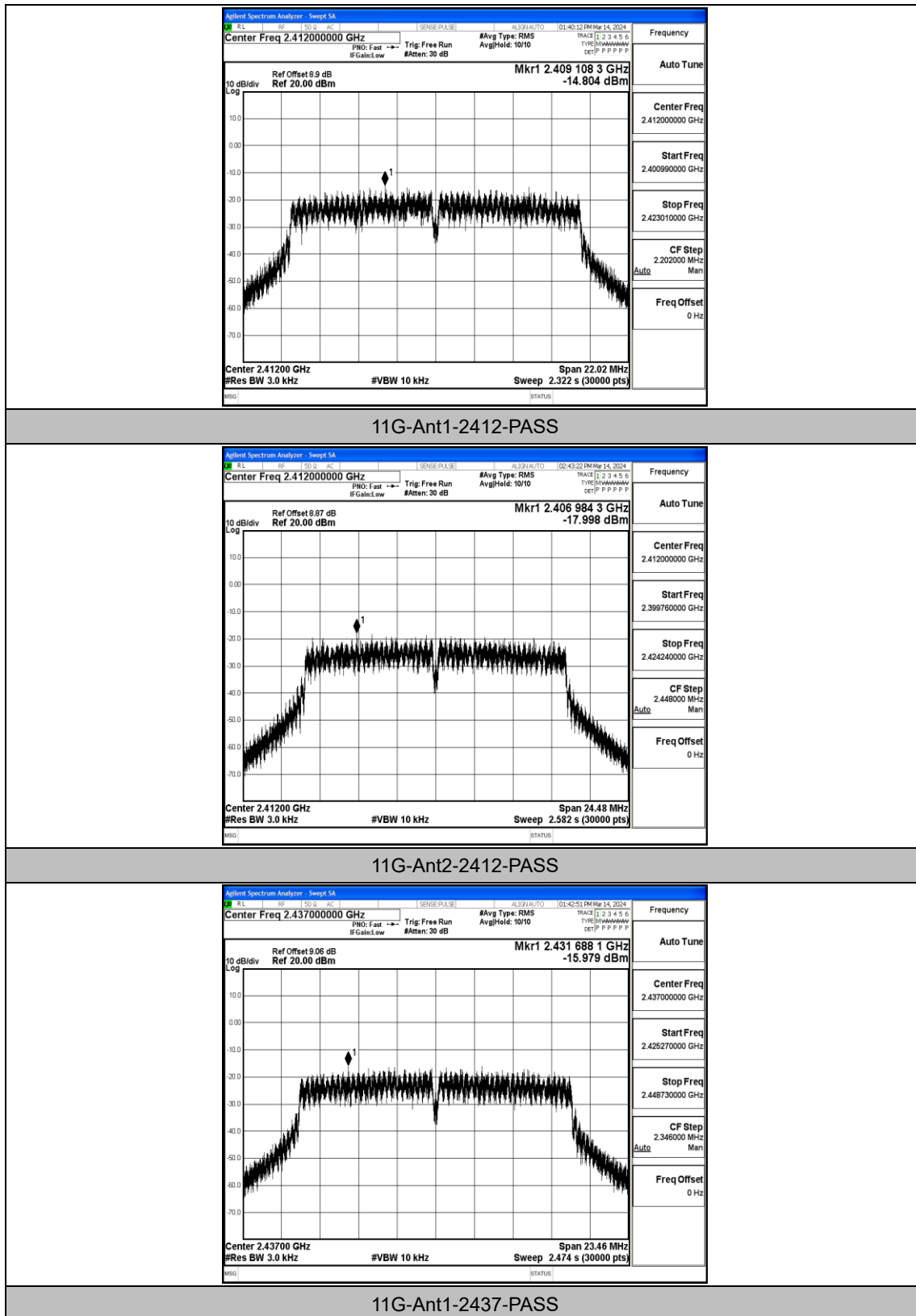
Test Result

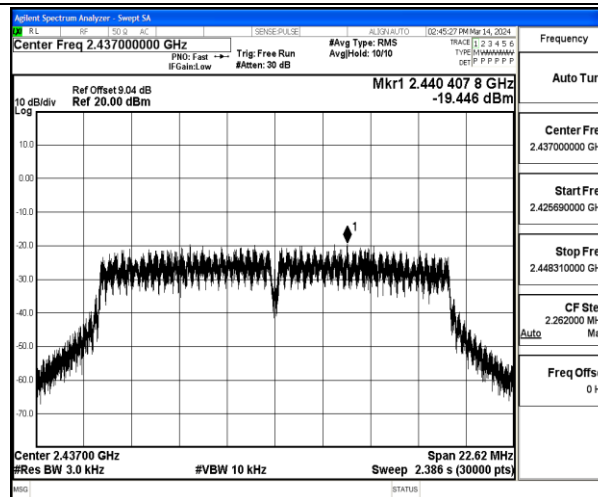
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.75	≤8.00	PASS
11B	Ant2	2412	-13.66	≤8.00	PASS
11B	Ant1	2437	-10.60	≤8.00	PASS
11B	Ant2	2437	-14.72	≤8.00	PASS
11B	Ant1	2462	-9.14	≤8.00	PASS
11B	Ant2	2462	-14.49	≤8.00	PASS
11G	Ant1	2412	-14.80	≤8.00	PASS
11G	Ant2	2412	-18.00	≤8.00	PASS
11G	Ant1	2437	-15.98	≤8.00	PASS
11G	Ant2	2437	-19.45	≤8.00	PASS
11G	Ant1	2462	-14.91	≤8.00	PASS
11G	Ant2	2462	-18.19	≤8.00	PASS
11N20MIMO	Ant1	2412	-17.24	≤8.00	PASS
11N20MIMO	Ant2	2412	-20.25	≤8.00	PASS
11N20MIMO	total	2412	-15.48	≤8.00	PASS
11N20MIMO	Ant1	2437	-18.19	≤8.00	PASS
11N20MIMO	Ant2	2437	-21.64	≤8.00	PASS
11N20MIMO	total	2437	-16.57	≤8.00	PASS
11N20MIMO	Ant1	2462	-18.58	≤8.00	PASS
11N20MIMO	Ant2	2462	-22.44	≤8.00	PASS
11N20MIMO	total	2462	-17.08	≤8.00	PASS
11N40MIMO	Ant1	2422	-20.10	≤8.00	PASS
11N40MIMO	Ant2	2422	-23.64	≤8.00	PASS
11N40MIMO	total	2422	-18.51	≤8.00	PASS
11N40MIMO	Ant1	2437	-21.41	≤8.00	PASS
11N40MIMO	Ant2	2437	-24.25	≤8.00	PASS
11N40MIMO	total	2437	-19.59	≤8.00	PASS
11N40MIMO	Ant1	2452	-21.27	≤8.00	PASS
11N40MIMO	Ant2	2452	-24.94	≤8.00	PASS
11N40MIMO	total	2452	-19.72	≤8.00	PASS

Test Graphs

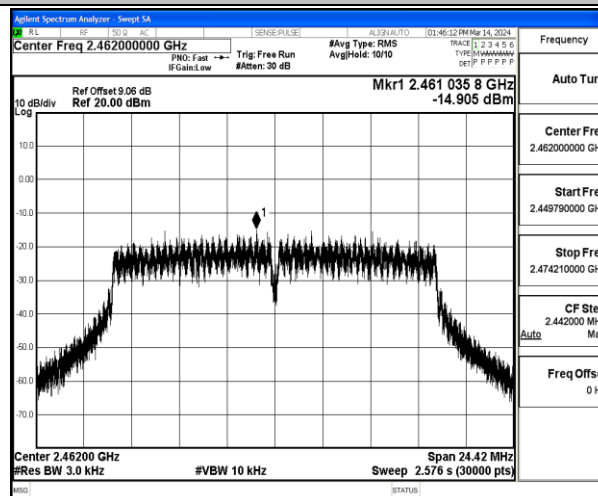




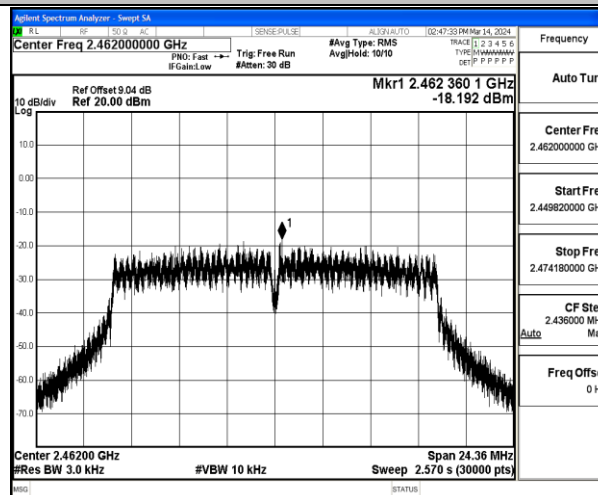




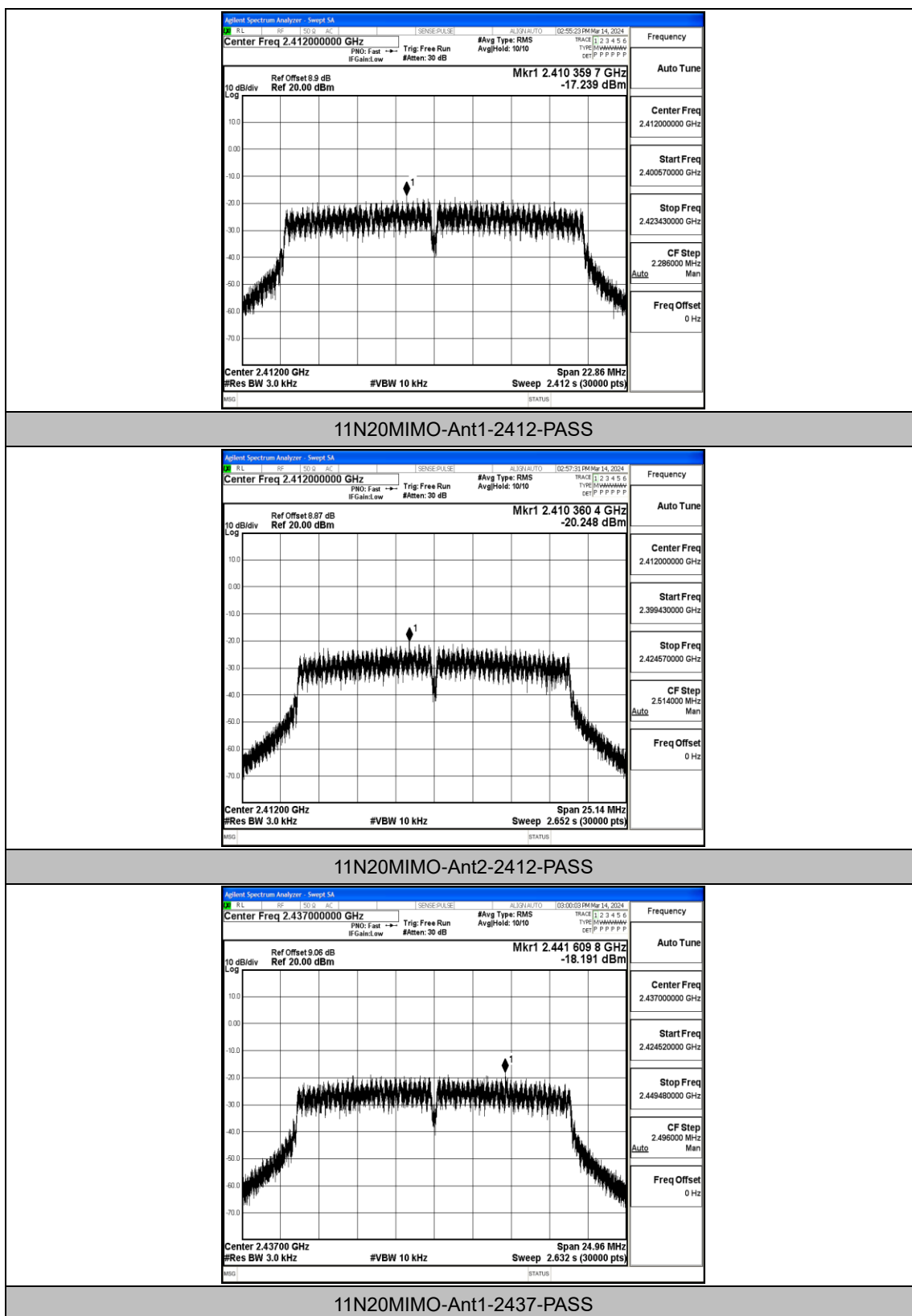
11G-Ant2-2437-PASS

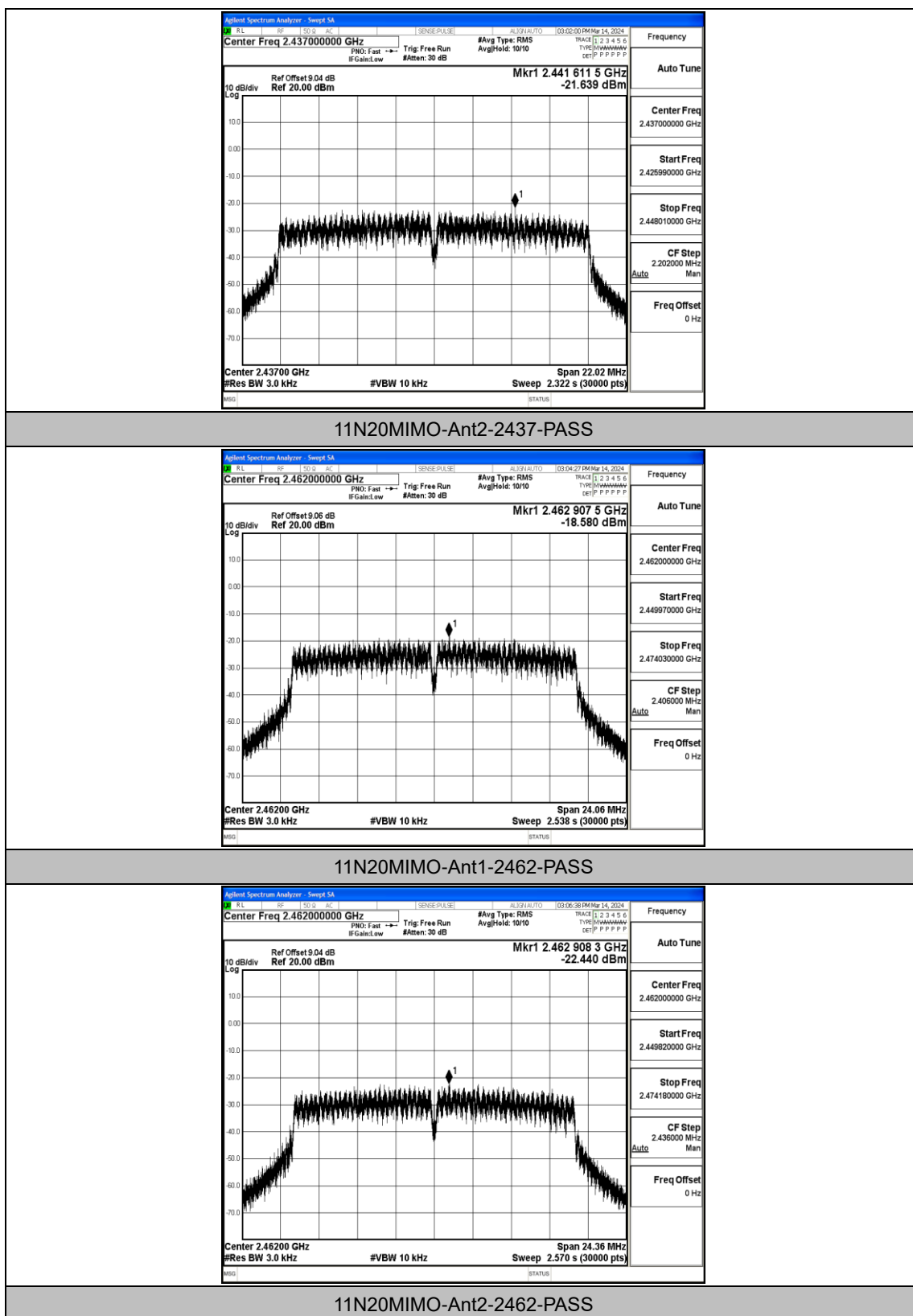


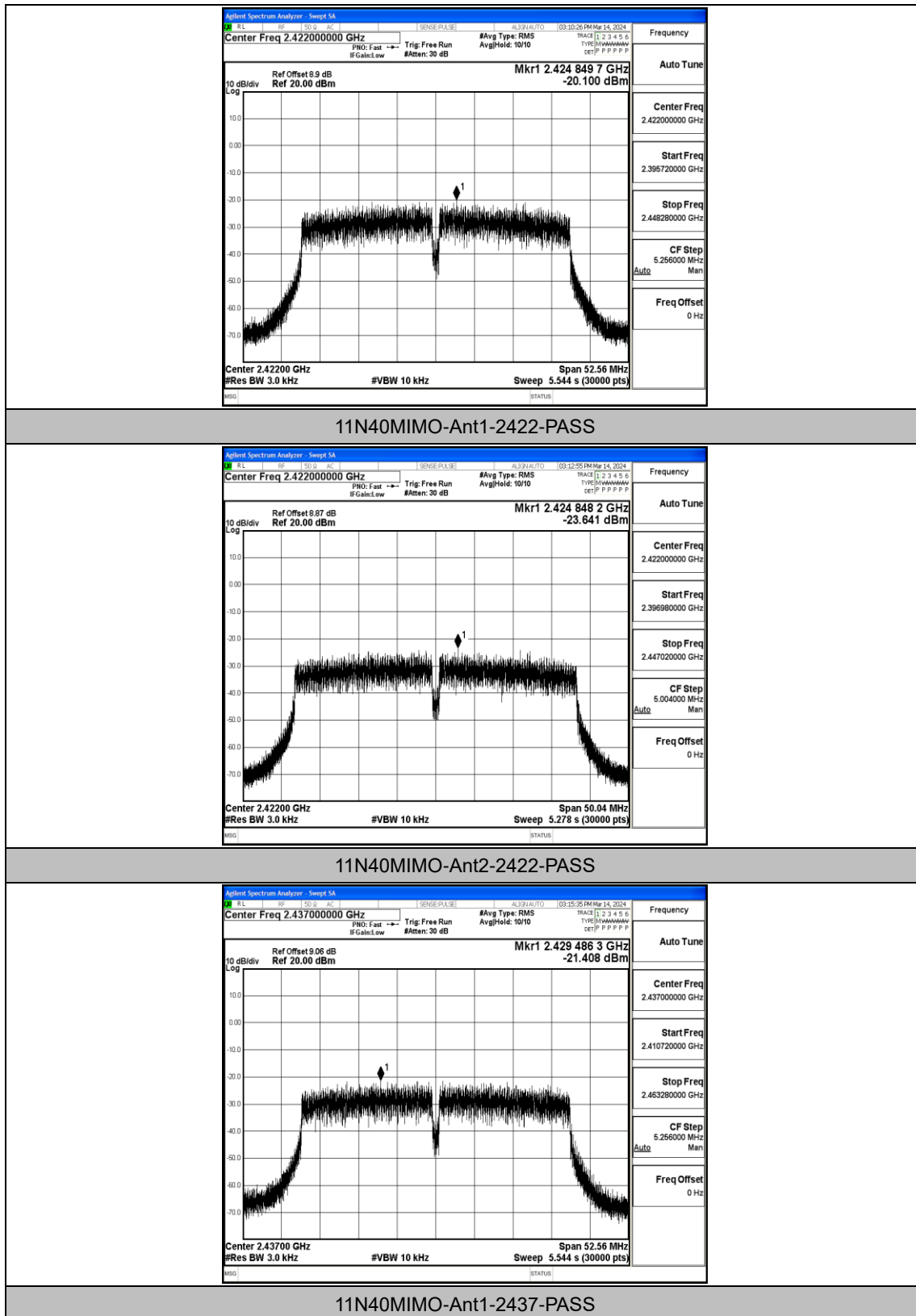
11G-Ant1-2462-PASS

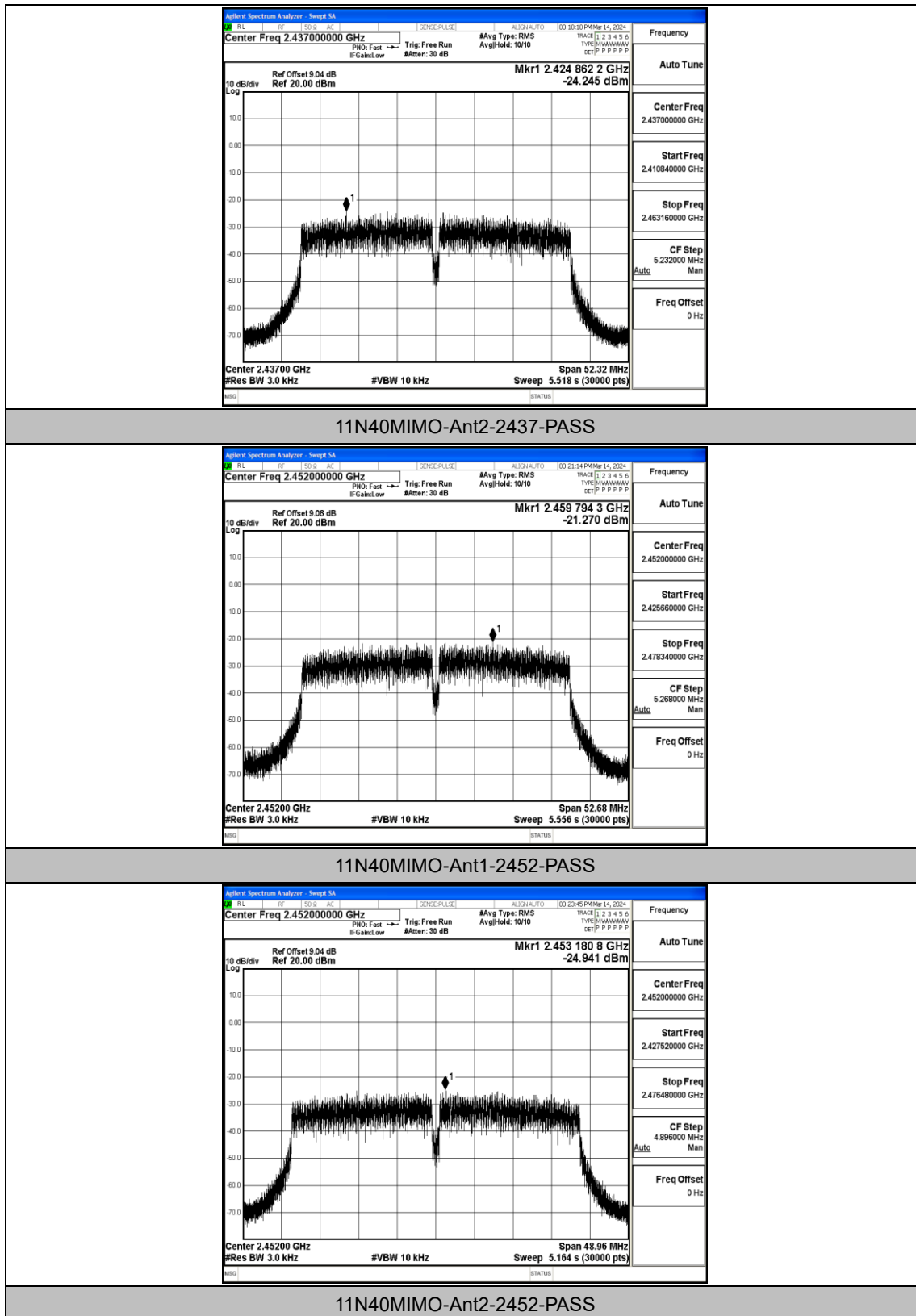


11G-Ant2-2462-PASS









Appendix E: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2413.01	4.04
11B	Ant2	2412	2413.49	0.21
11B	Ant1	2437	2435.49	3.41
11B	Ant2	2437	2436.00	-0.15
11B	Ant1	2462	2462.50	4.39
11B	Ant2	2462	2460.48	-1.37
11G	Ant1	2412	2415.74	-1.48
11G	Ant2	2412	2408.25	-4.91
11G	Ant1	2437	2439.51	-1.97
11G	Ant2	2437	2438.24	-5.00
11G	Ant1	2462	2460.73	-1.63
11G	Ant2	2462	2460.76	-5.61
11N20MIMO	Ant1	2412	2413.23	-3.54
11N20MIMO	Ant2	2412	2414.51	-7.16
11N20MIMO	Ant1	2437	2438.27	-3.62
11N20MIMO	Ant2	2437	2434.51	-8.00
11N20MIMO	Ant1	2462	2463.23	-3.66
11N20MIMO	Ant2	2462	2459.52	-8.64
11N40MIMO	Ant1	2422	2415.75	-6.33
11N40MIMO	Ant2	2422	2413.29	-9.75
11N40MIMO	Ant1	2437	2440.73	-6.81
11N40MIMO	Ant2	2437	2428.26	-10.16
11N40MIMO	Ant1	2452	2458.27	-6.97
11N40MIMO	Ant2	2452	2456.99	-10.36