

Appendix: 2.4G WIFI

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Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.480	2416.560	0.5	PASS
		2437	8.560	2432.480	2441.040	0.5	PASS
		2462	8.560	2457.960	2466.520	0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SI SO	Ant1	2412	17.640	2403.200	2420.840	0.5	PASS
		2437	17.320	2428.200	2445.520	0.5	PASS
		2462	17.320	2453.480	2470.800	0.5	PASS

Test Graphs

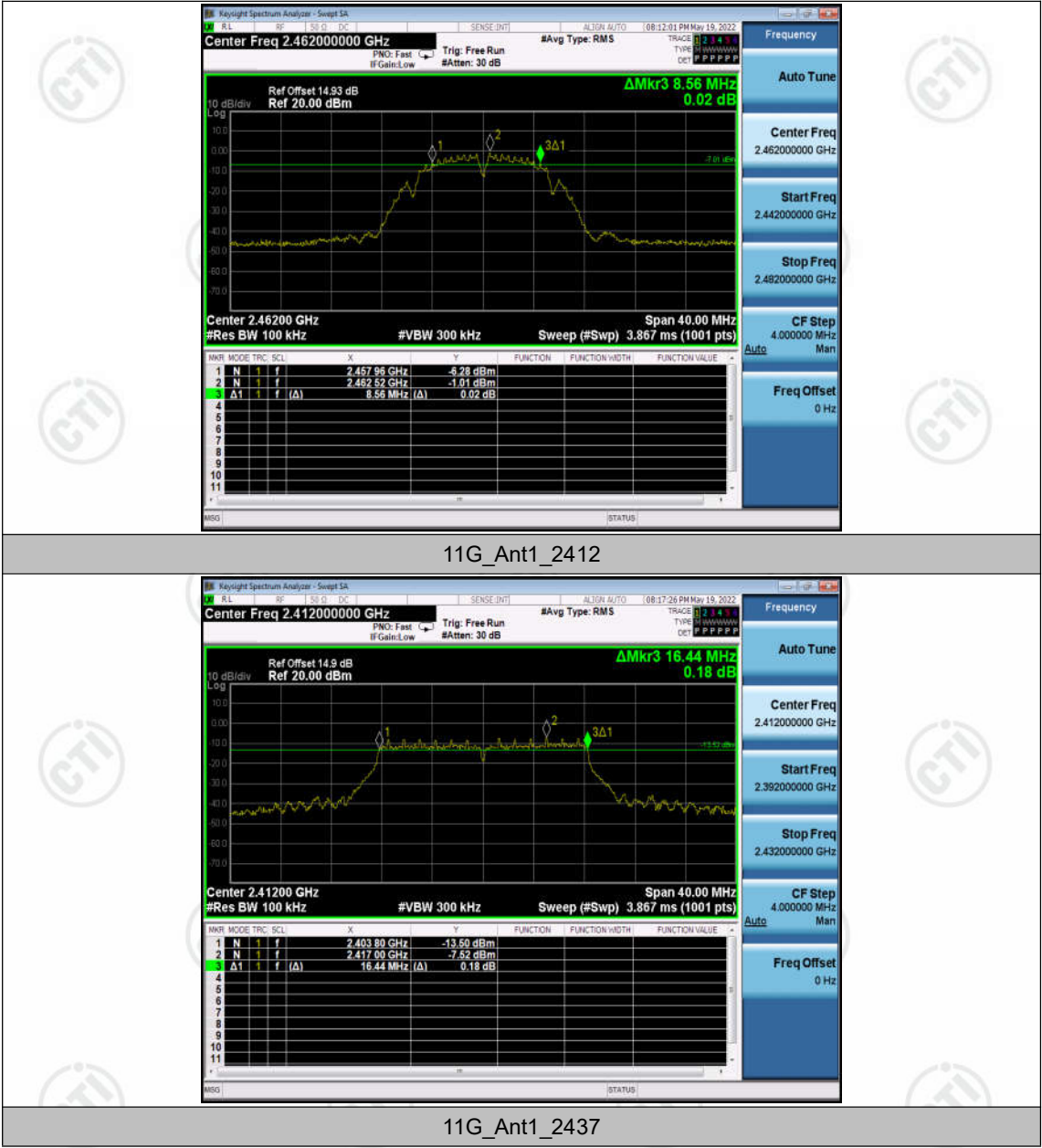
11B_Ant1_2412

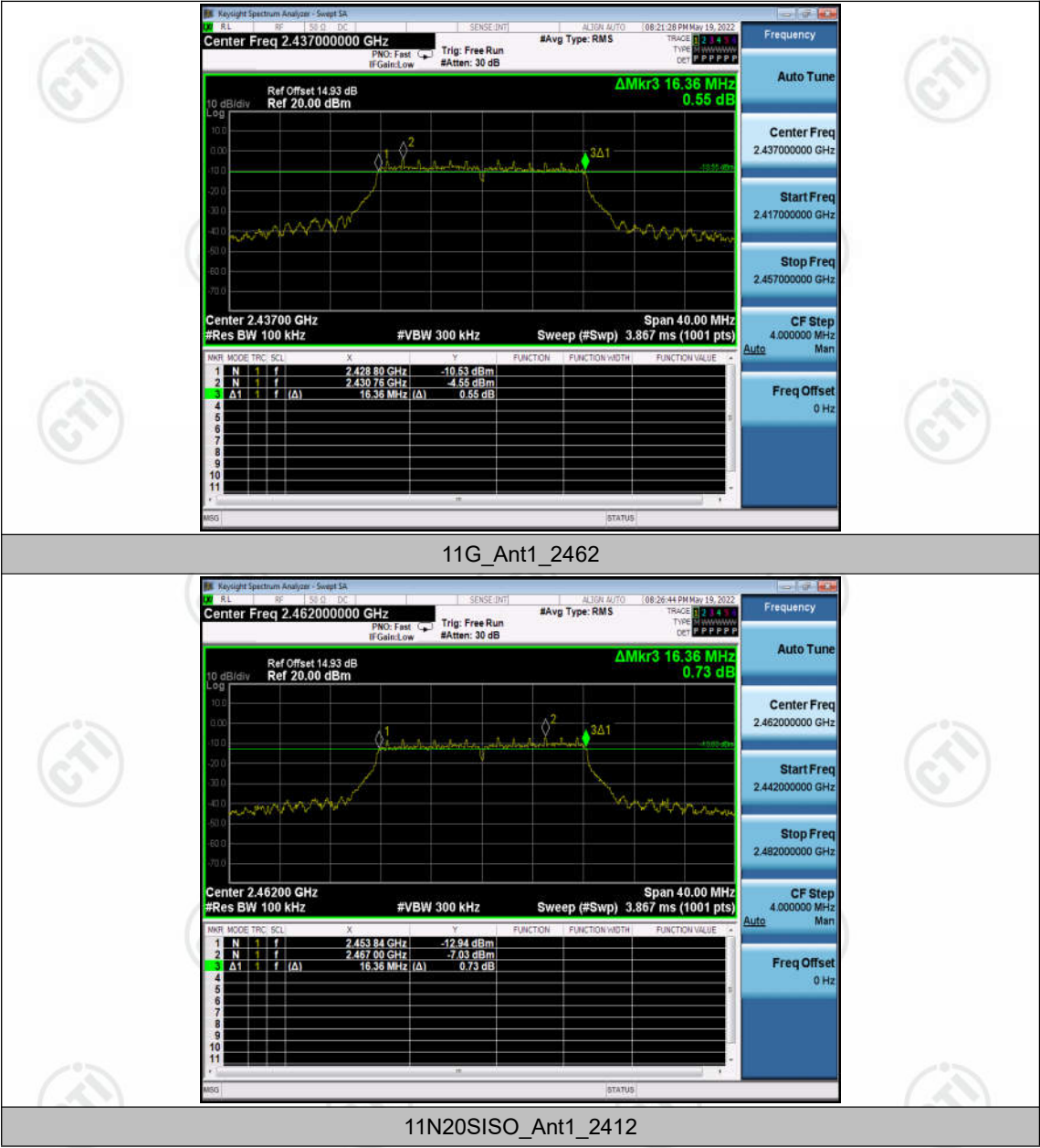


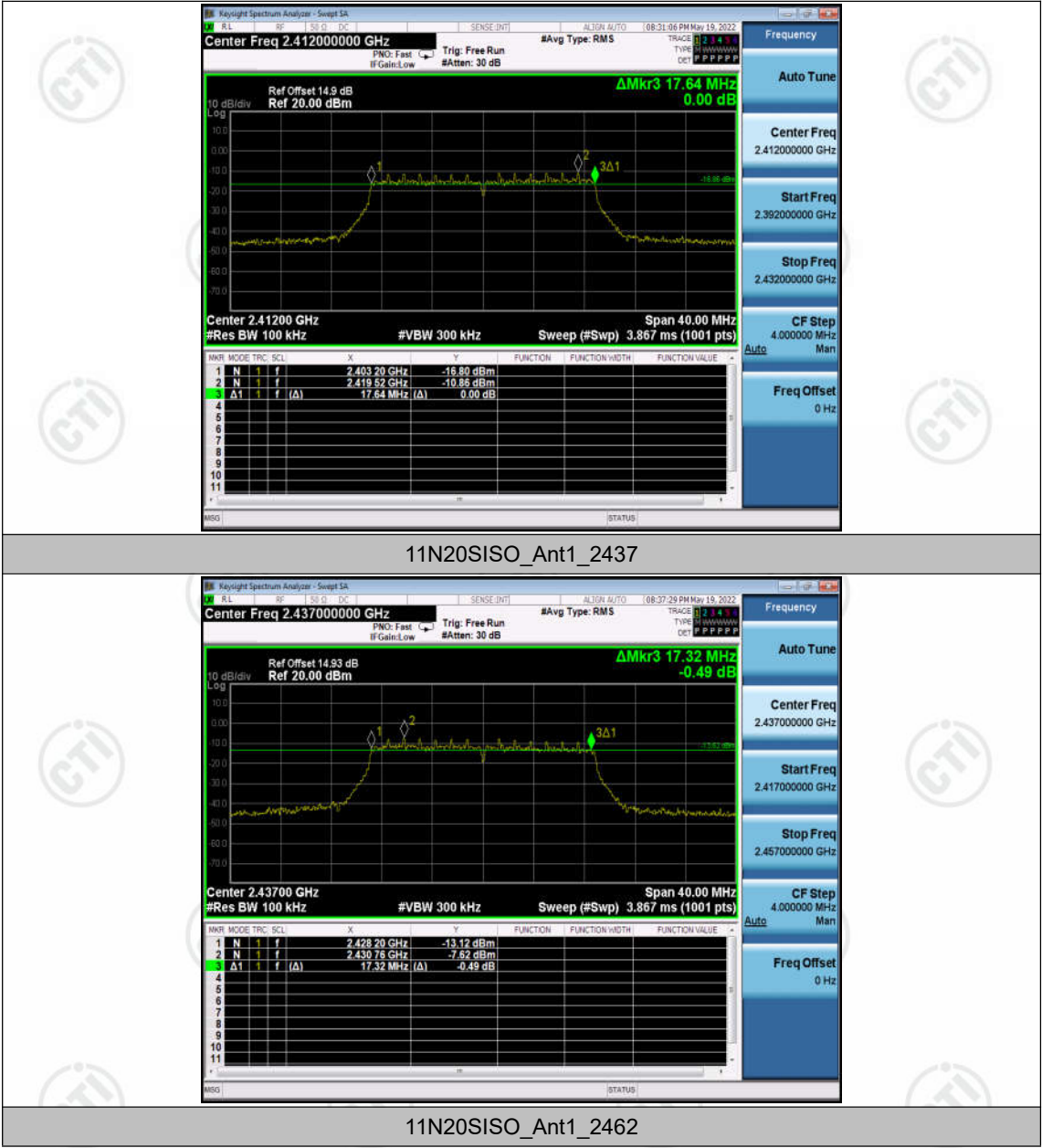
11B_Ant1_2437

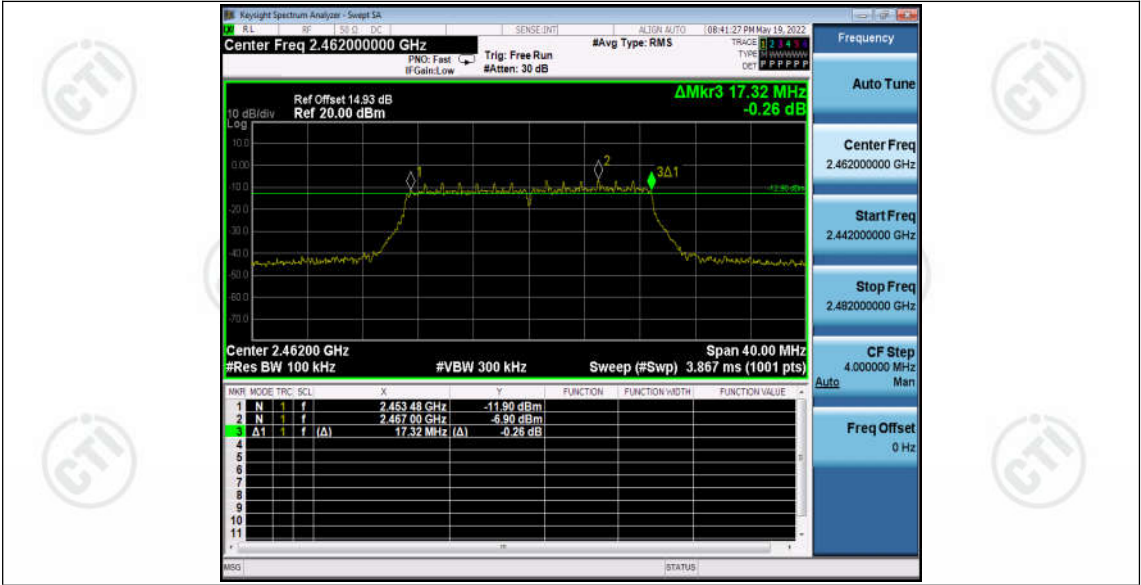


11B_Ant1_2462







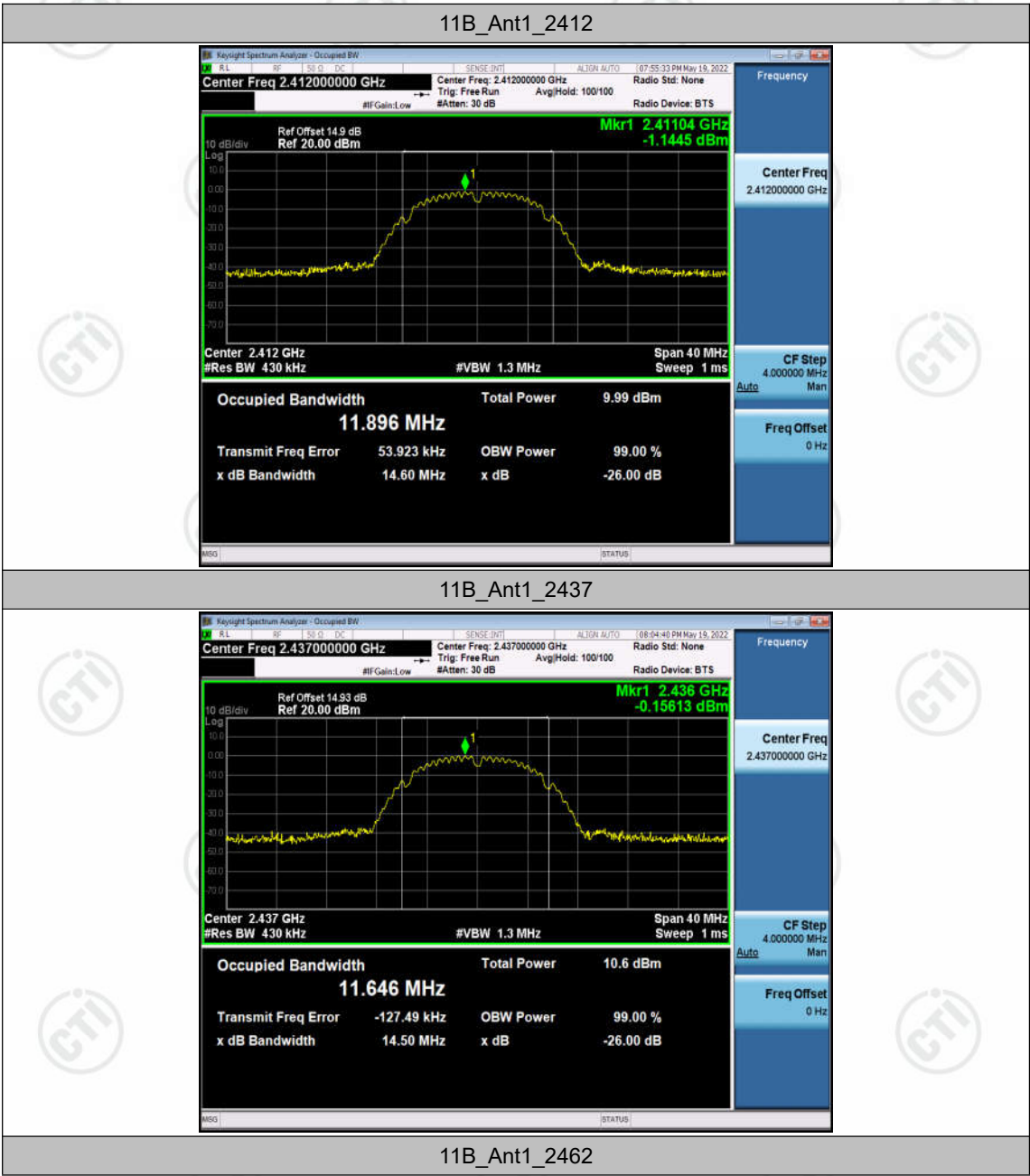


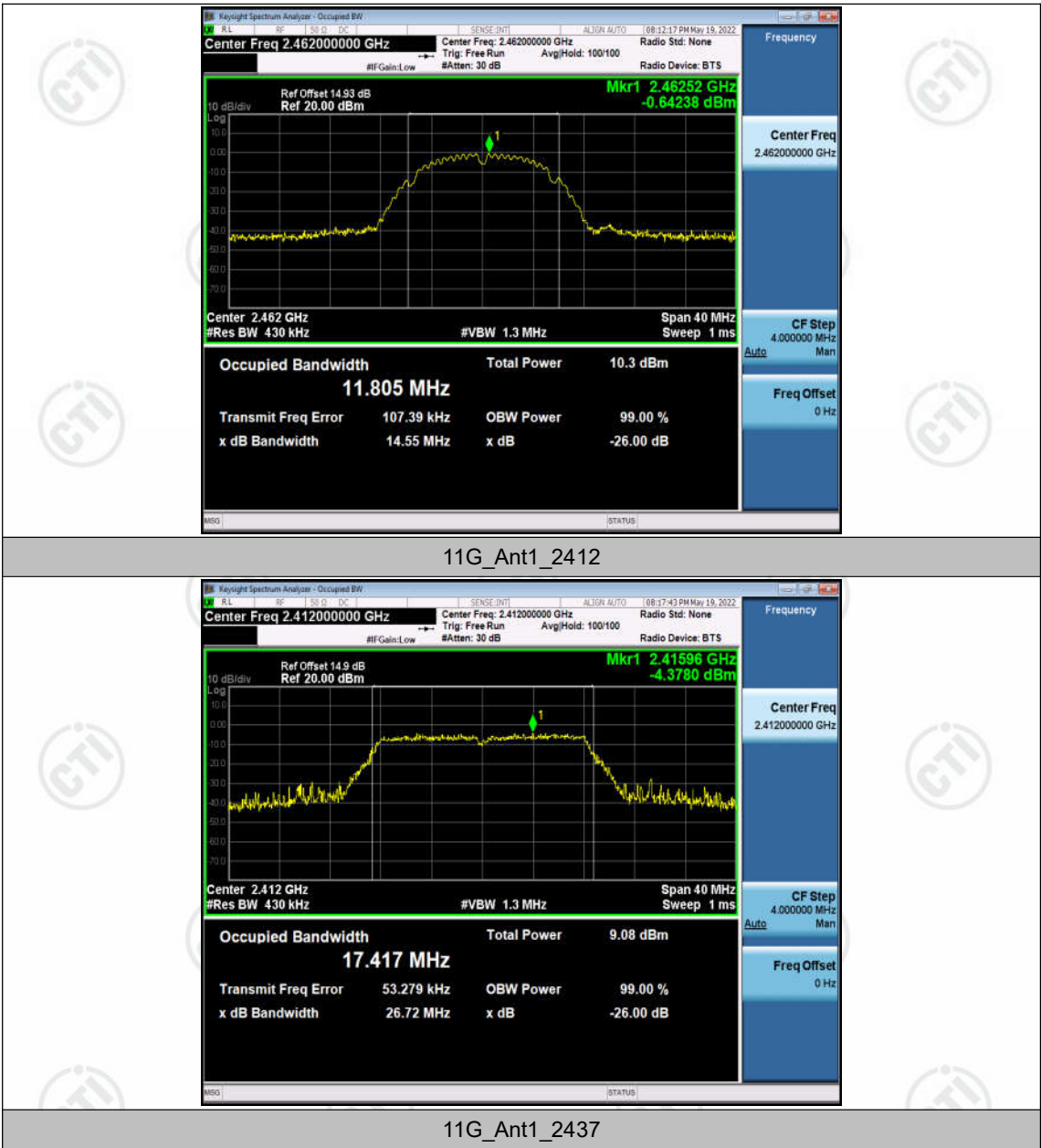
Appendix B: Occupied Channel Bandwidth

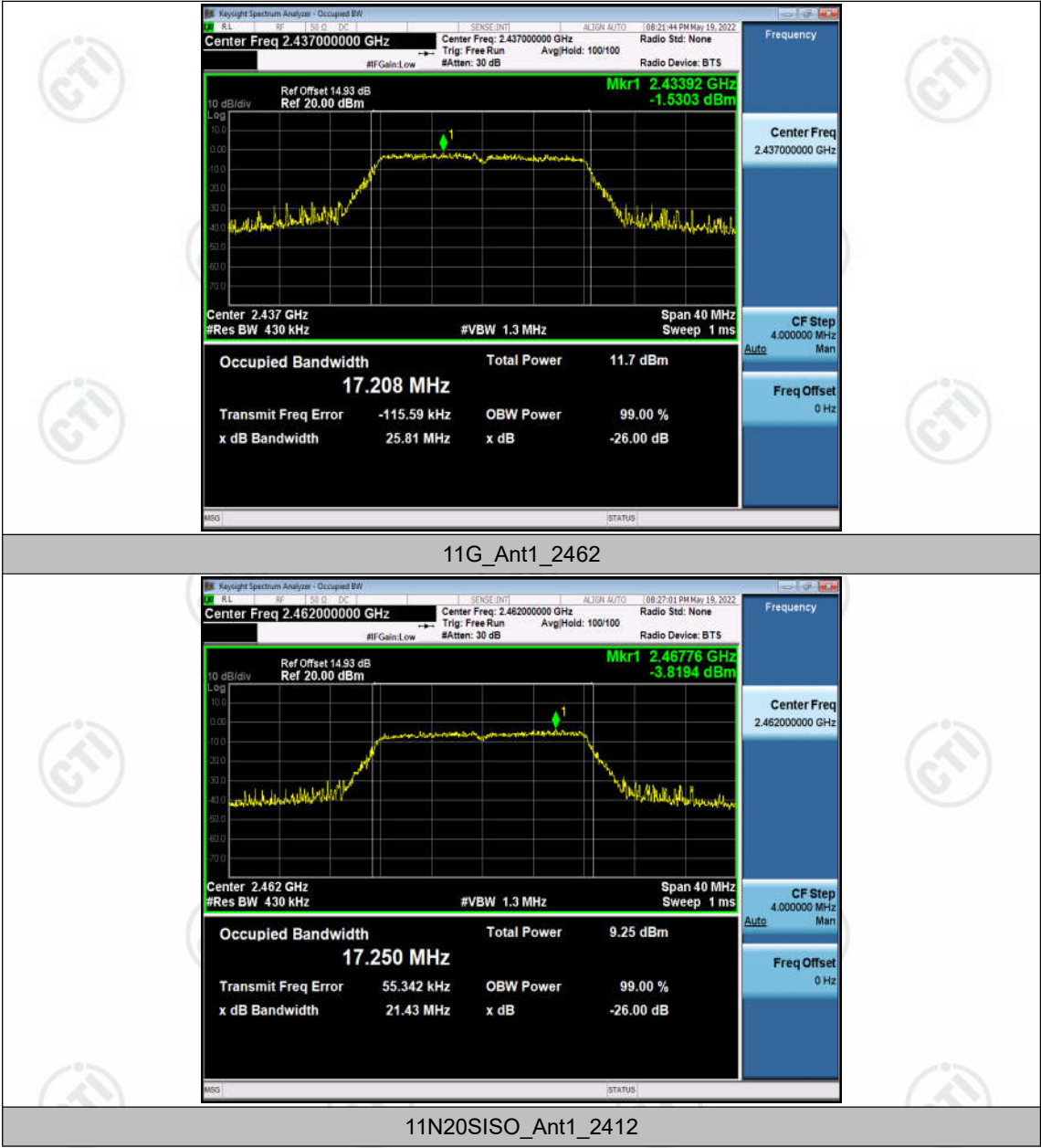
Test Result

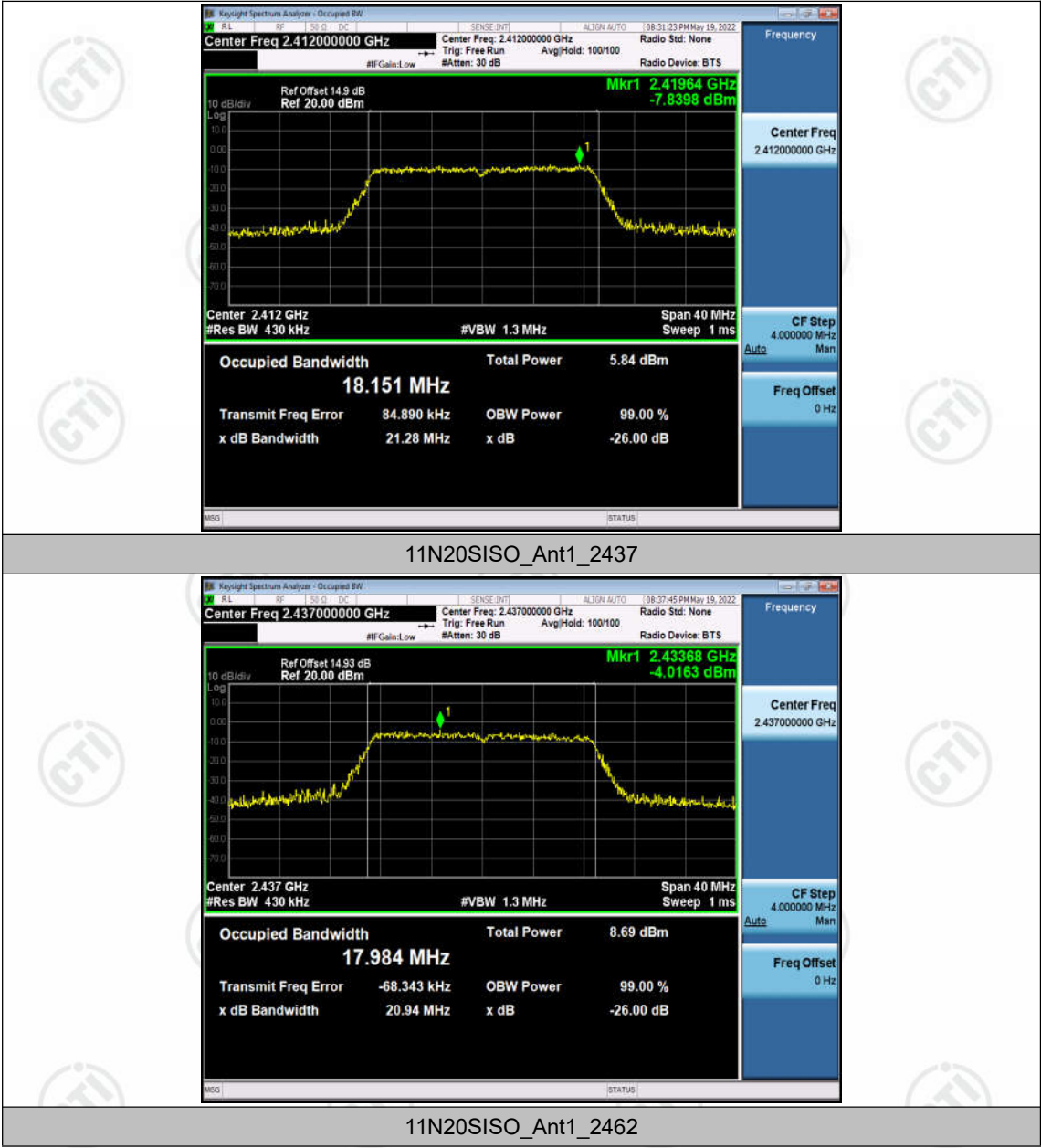
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.896	2406.106	2418.002	---	---
		2437	11.646	2431.050	2442.696	---	---
		2462	11.805	2456.205	2468.010	---	---
11G	Ant1	2412	17.417	2403.345	2420.762	---	---
		2437	17.208	2428.280	2445.488	---	---
		2462	17.250	2453.430	2470.680	---	---
11N20SI SO	Ant1	2412	18.151	2403.009	2421.160	---	---
		2437	17.984	2427.940	2445.924	---	---
		2462	18.100	2453.040	2471.140	---	---

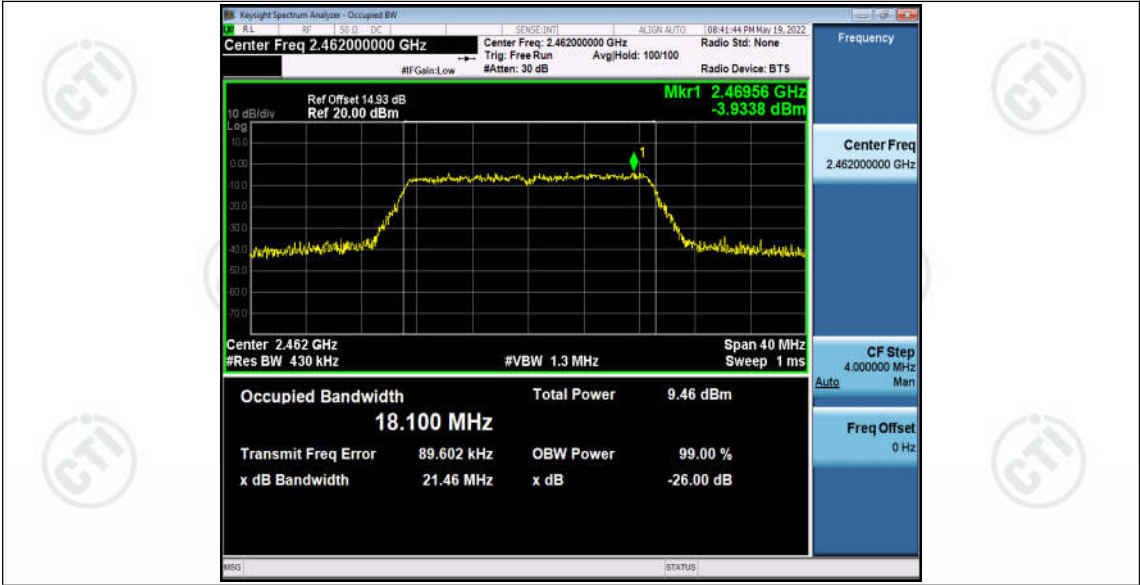
Test Graphs











Appendix C: Maximum conducted output power

Test Result Peak

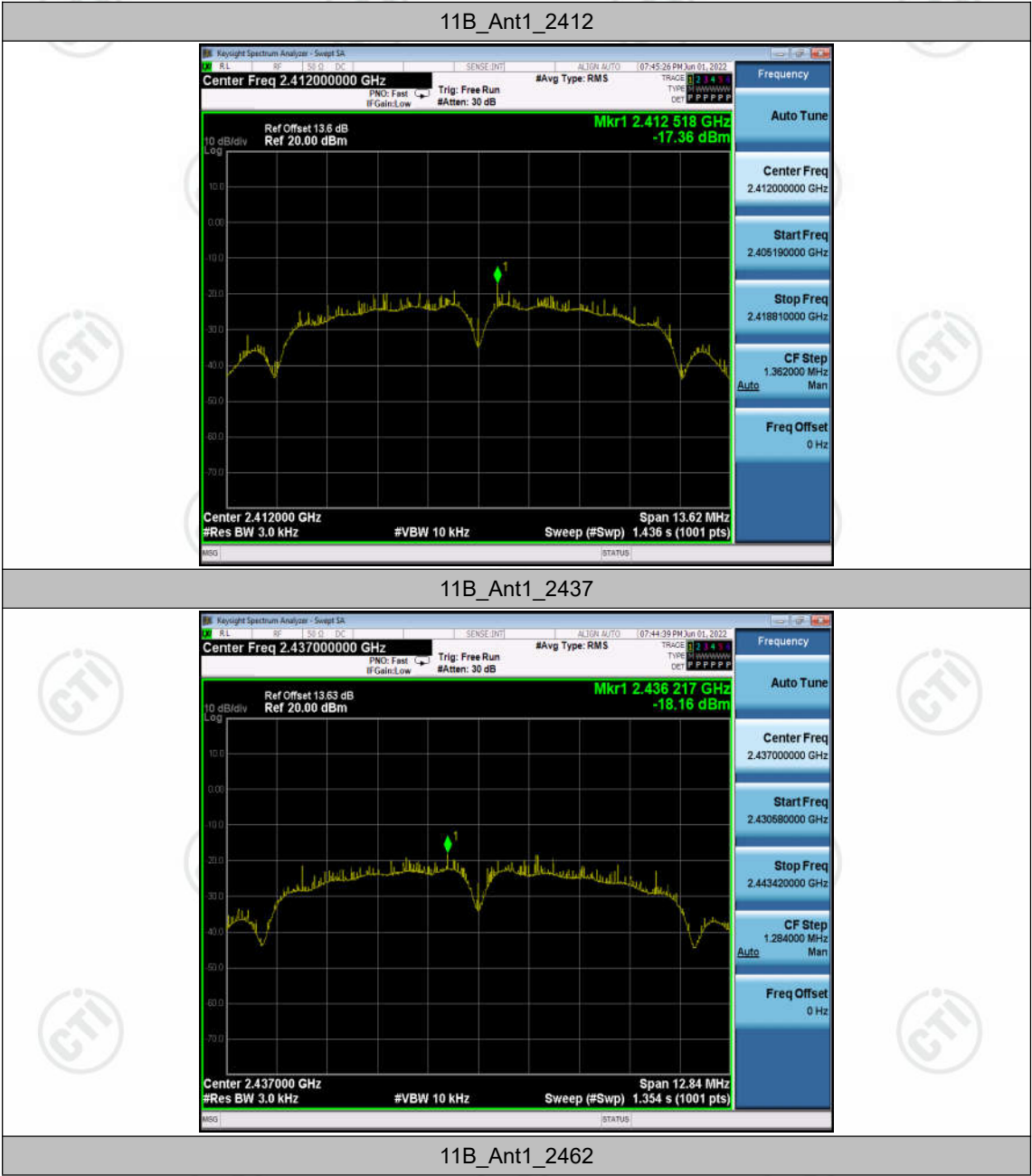
Test Mode	Antenna	Frequen cy[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	9.43	≤30.00	PASS
		2437	---	9.48	≤30.00	PASS
		2462	---	9.42	≤30.00	PASS
11G	Ant1	2412	---	9.39	≤30.00	PASS
		2437	---	9.30	≤30.00	PASS
		2462	---	9.45	≤30.00	PASS
11N20SIS O	Ant1	2412	---	9.34	≤30.00	PASS
		2437	---	9.15	≤30.00	PASS
		2462	---	9.43	≤30.00	PASS

Appendix D: Maximum power spectral density

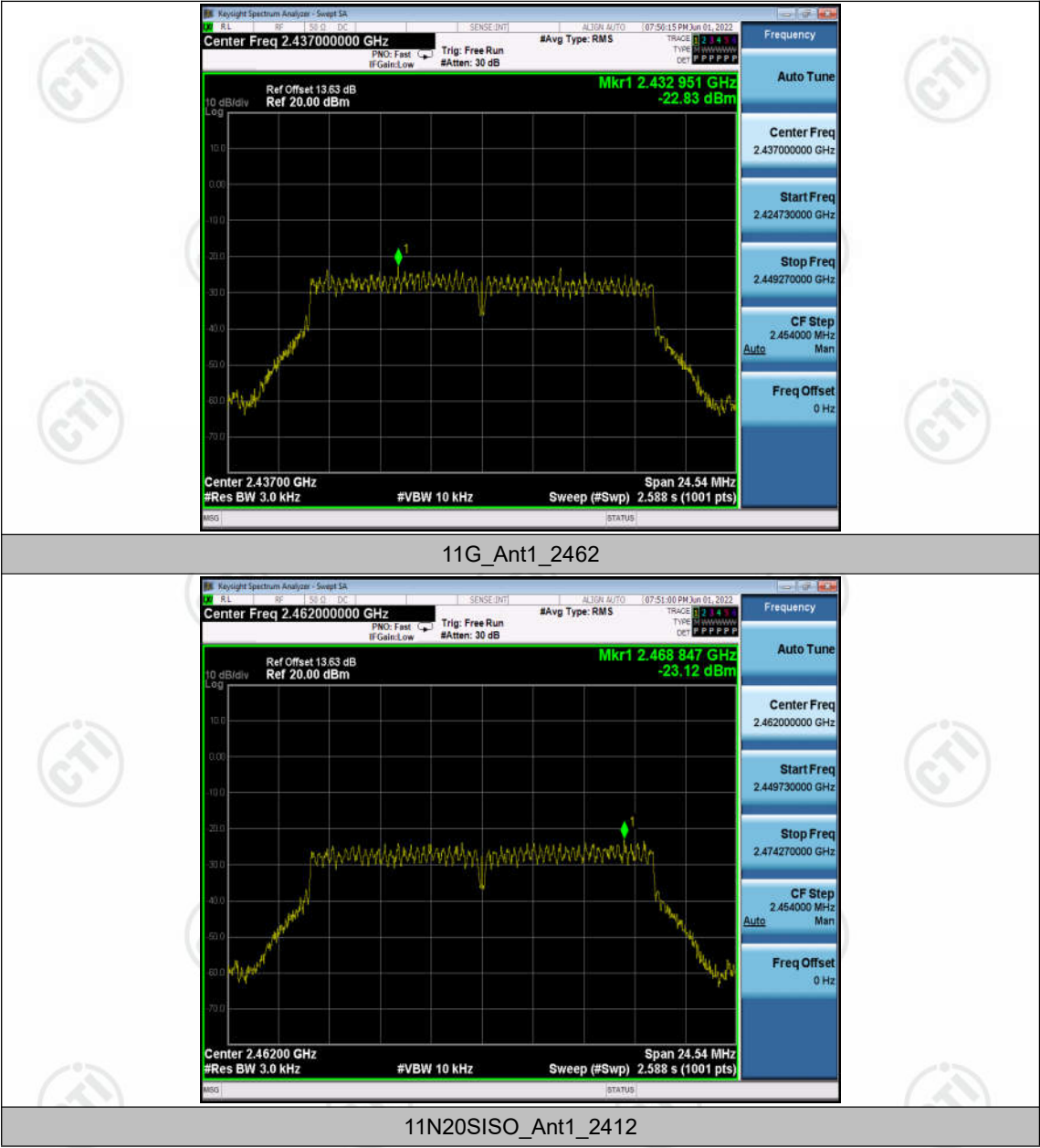
Test Result

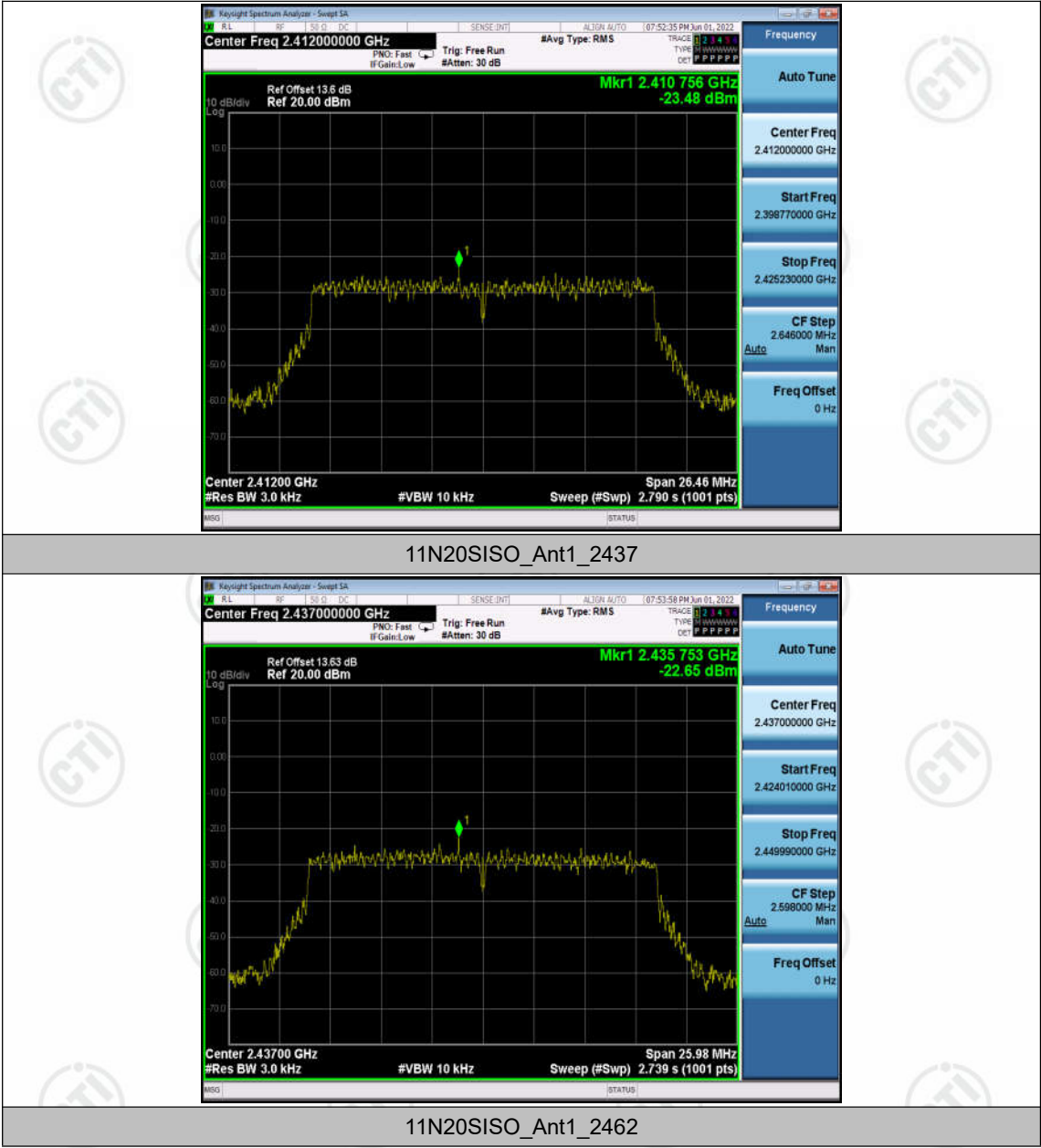
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.36	≤8.00	PASS
		2437	-18.16	≤8.00	PASS
		2462	-17.15	≤8.00	PASS
11G	Ant1	2412	-22.14	≤8.00	PASS
		2437	-22.83	≤8.00	PASS
		2462	-23.12	≤8.00	PASS
11N20SISO	Ant1	2412	-23.48	≤8.00	PASS
		2437	-22.65	≤8.00	PASS
		2462	-24.31	≤8.00	PASS

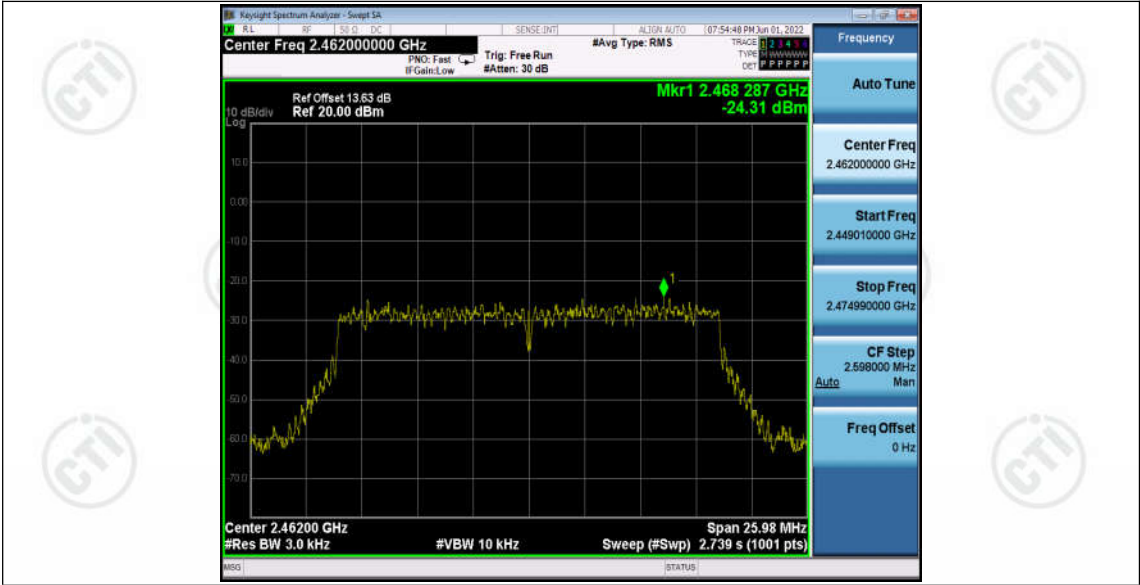
Test Graphs











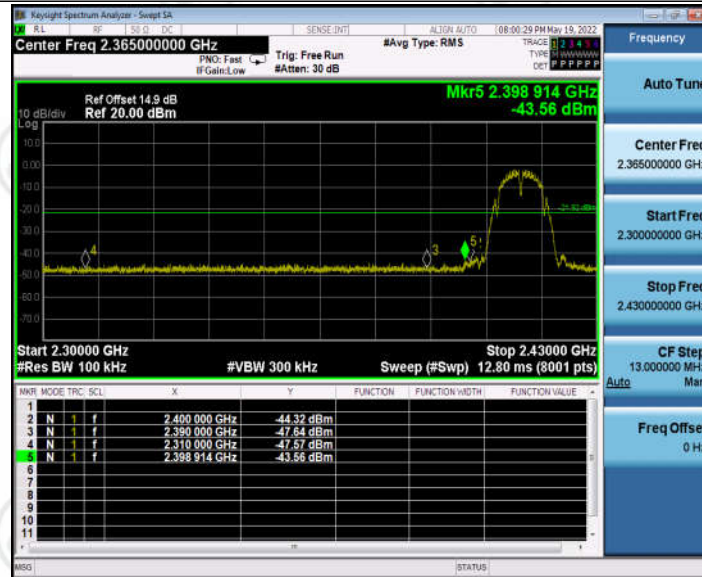
Appendix E: Band edge measurements

Test Result

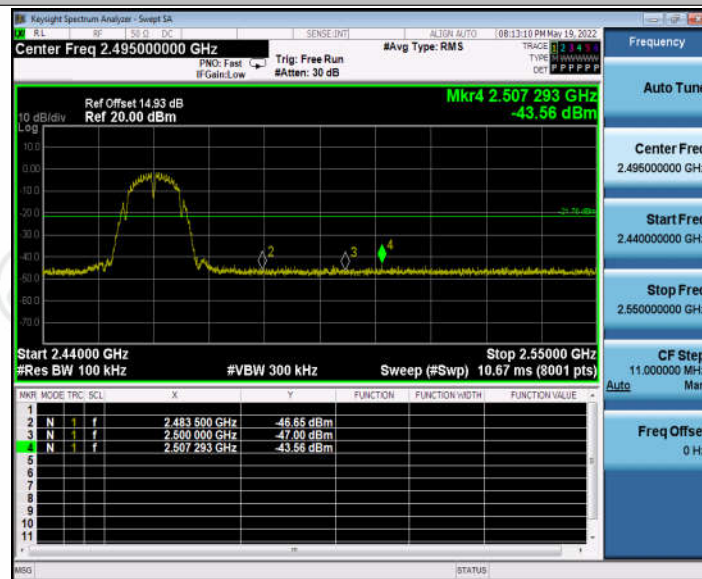
Test Mode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-1.92	-43.56	≤-21.92	PASS
		High	2462	-1.76	-43.56	≤-21.76	PASS
11G	Ant1	Low	2412	-7.49	-37.68	≤-27.49	PASS
		High	2462	-8.20	-43.43	≤-28.2	PASS
11N20SI SO	Ant1	Low	2412	-8.43	-41.92	≤-28.43	PASS
		High	2462	-7.93	-43.79	≤-27.93	PASS

Test Graphs

11B_Ant1_Low_2412



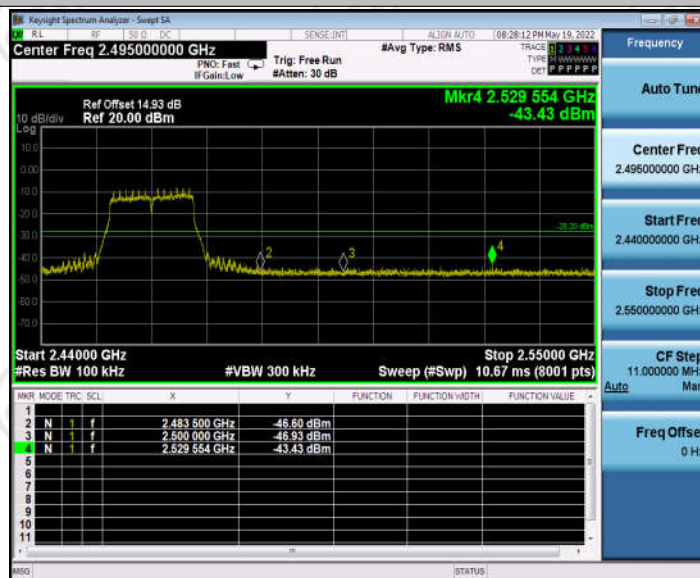
11B_Ant1_High_2462



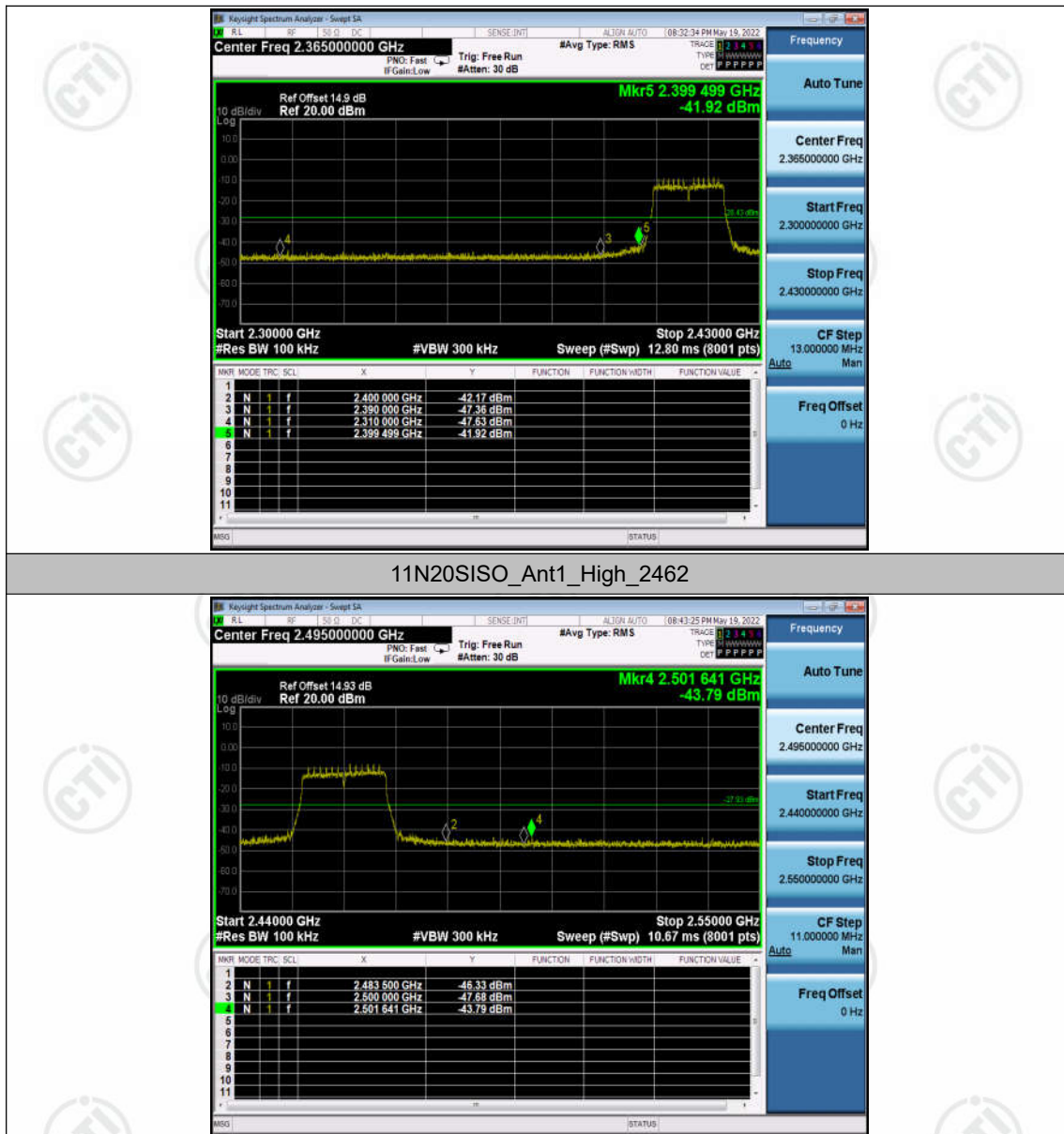
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

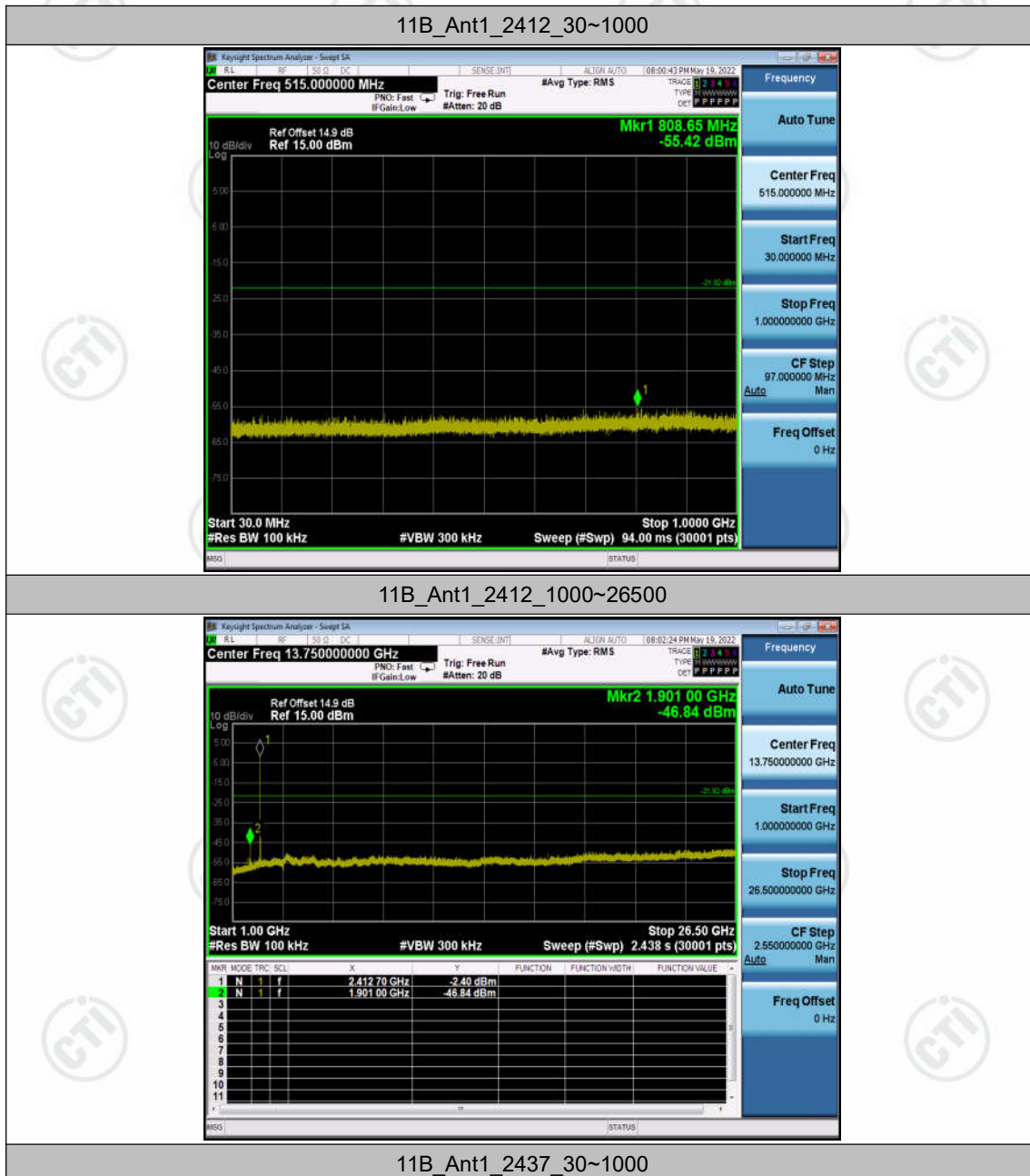


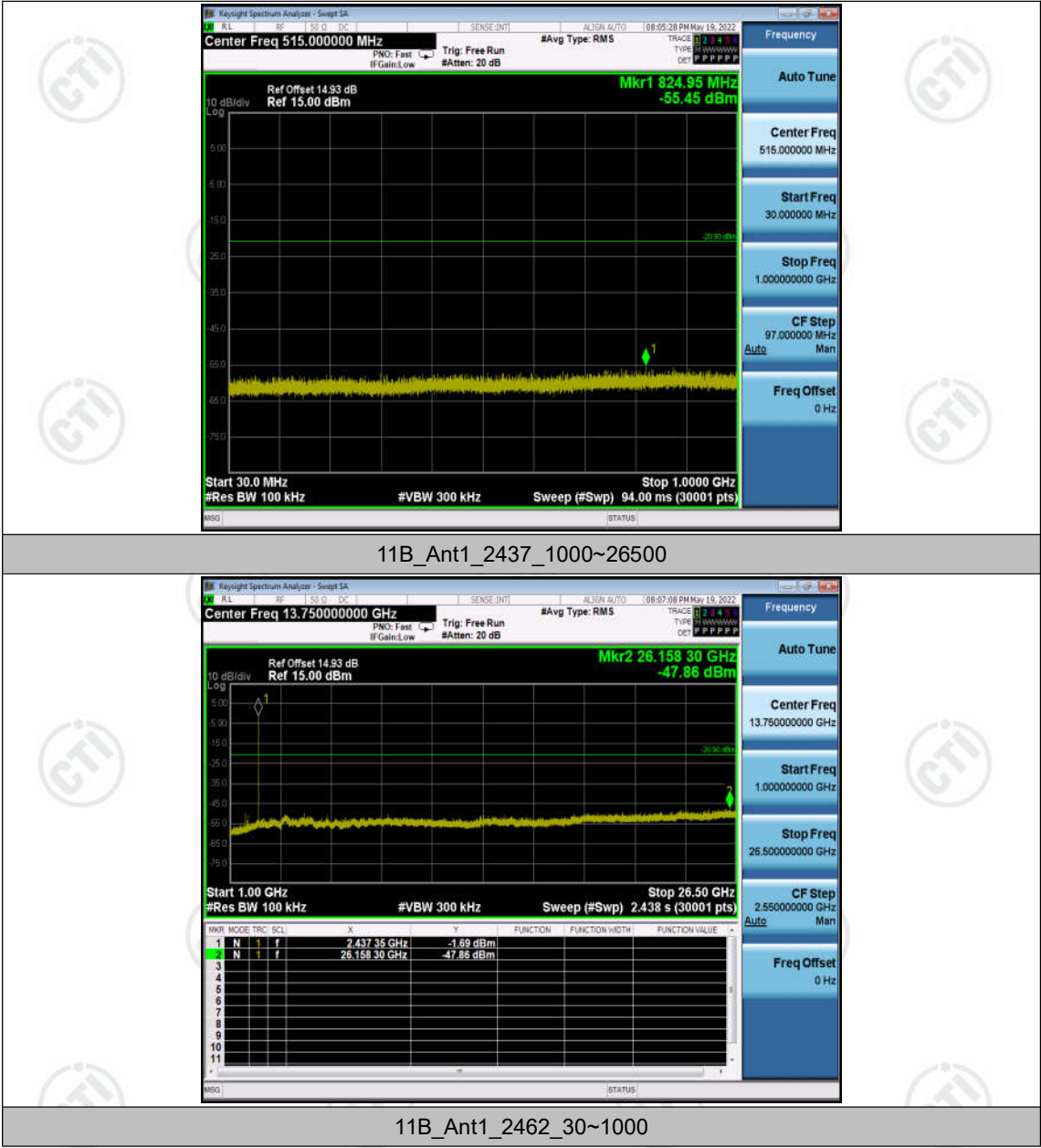
Appendix F: Conducted Spurious Emission

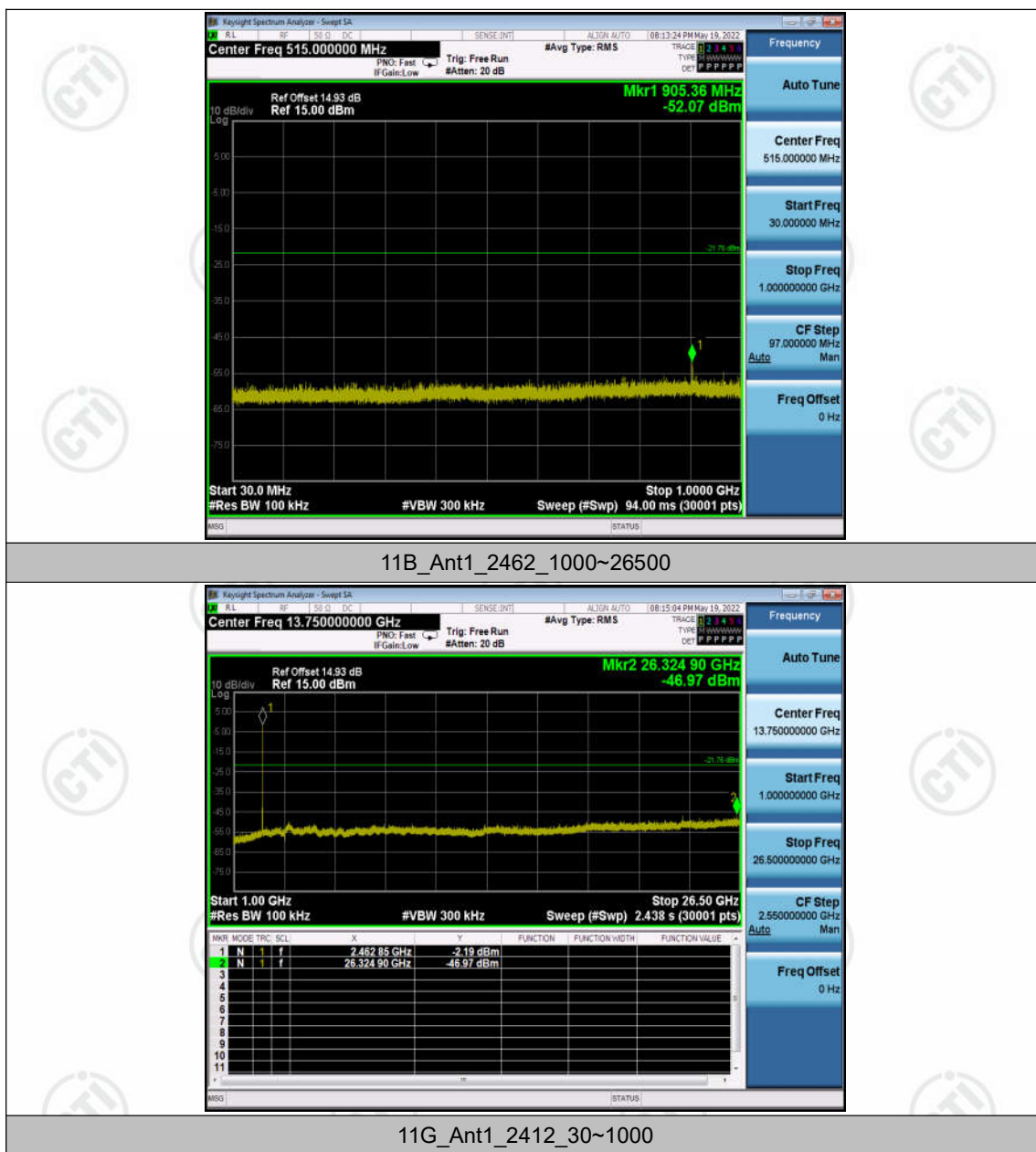
Test Result

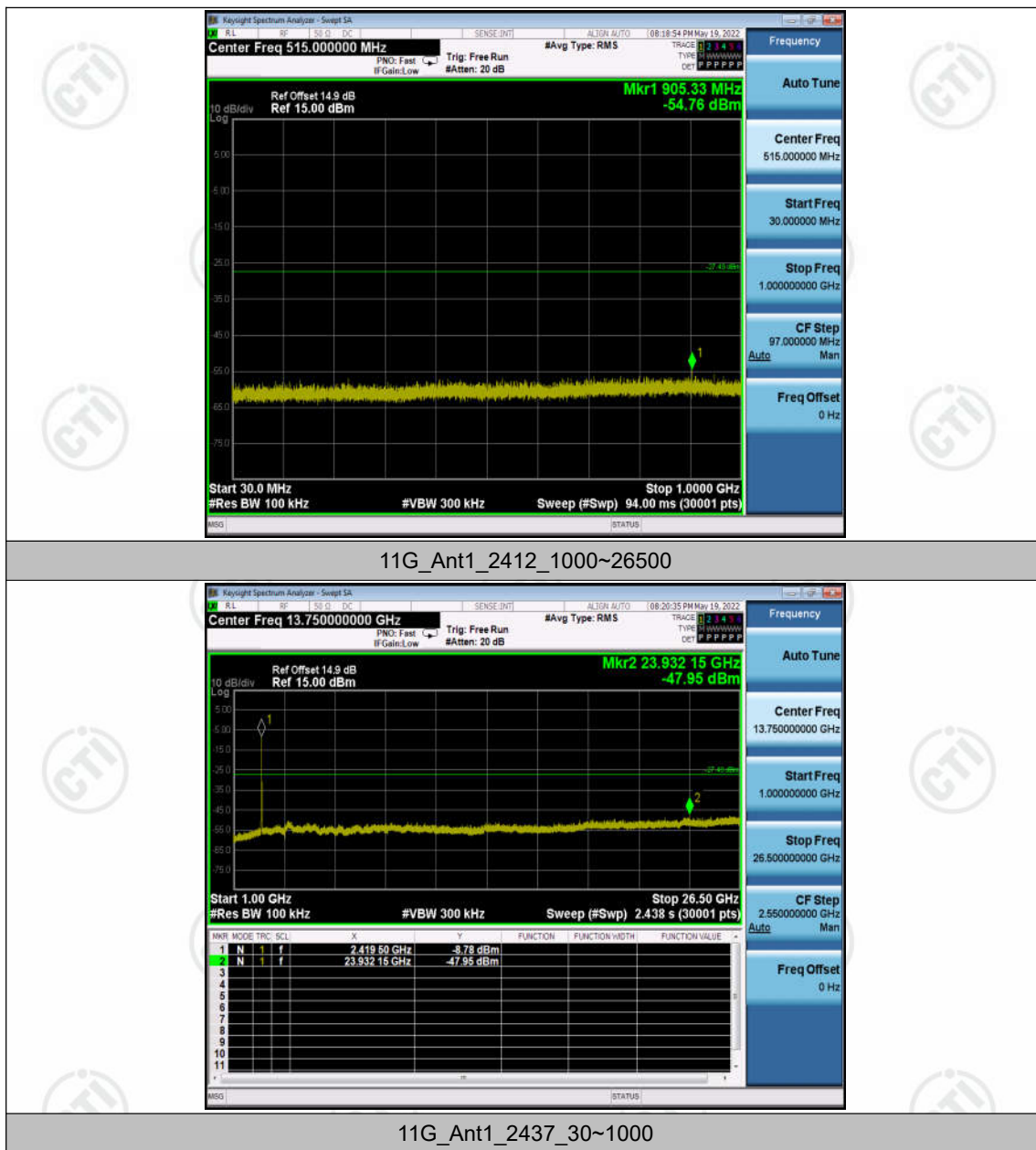
Test Mode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	-1.92	-55.42	≤-21.92	PASS
			1000~26500	-1.92	-46.84	≤-21.92	PASS
		2437	30~1000	-0.90	-55.45	≤-20.9	PASS
			1000~26500	-0.90	-47.86	≤-20.9	PASS
		2462	30~1000	-1.76	-52.07	≤-21.76	PASS
			1000~26500	-1.76	-46.97	≤-21.76	PASS
11G	Ant1	2412	30~1000	-7.49	-54.76	≤-27.49	PASS
			1000~26500	-7.49	-47.95	≤-27.49	PASS
		2437	30~1000	-7.53	-50.08	≤-27.53	PASS
			1000~26500	-7.53	-47.29	≤-27.53	PASS
		2462	30~1000	-8.20	-55.4	≤-28.2	PASS
			1000~26500	-8.20	-46.54	≤-28.2	PASS
11N20SI SO	Ant1	2412	30~1000	-8.43	-53.91	≤-28.43	PASS
			1000~26500	-8.43	-47.07	≤-28.43	PASS
		2437	30~1000	-7.62	-53.55	≤-27.62	PASS
			1000~26500	-7.62	-47.55	≤-27.62	PASS
		2462	30~1000	-7.93	-49.44	≤-27.93	PASS
			1000~26500	-7.93	-47.89	≤-27.93	PASS

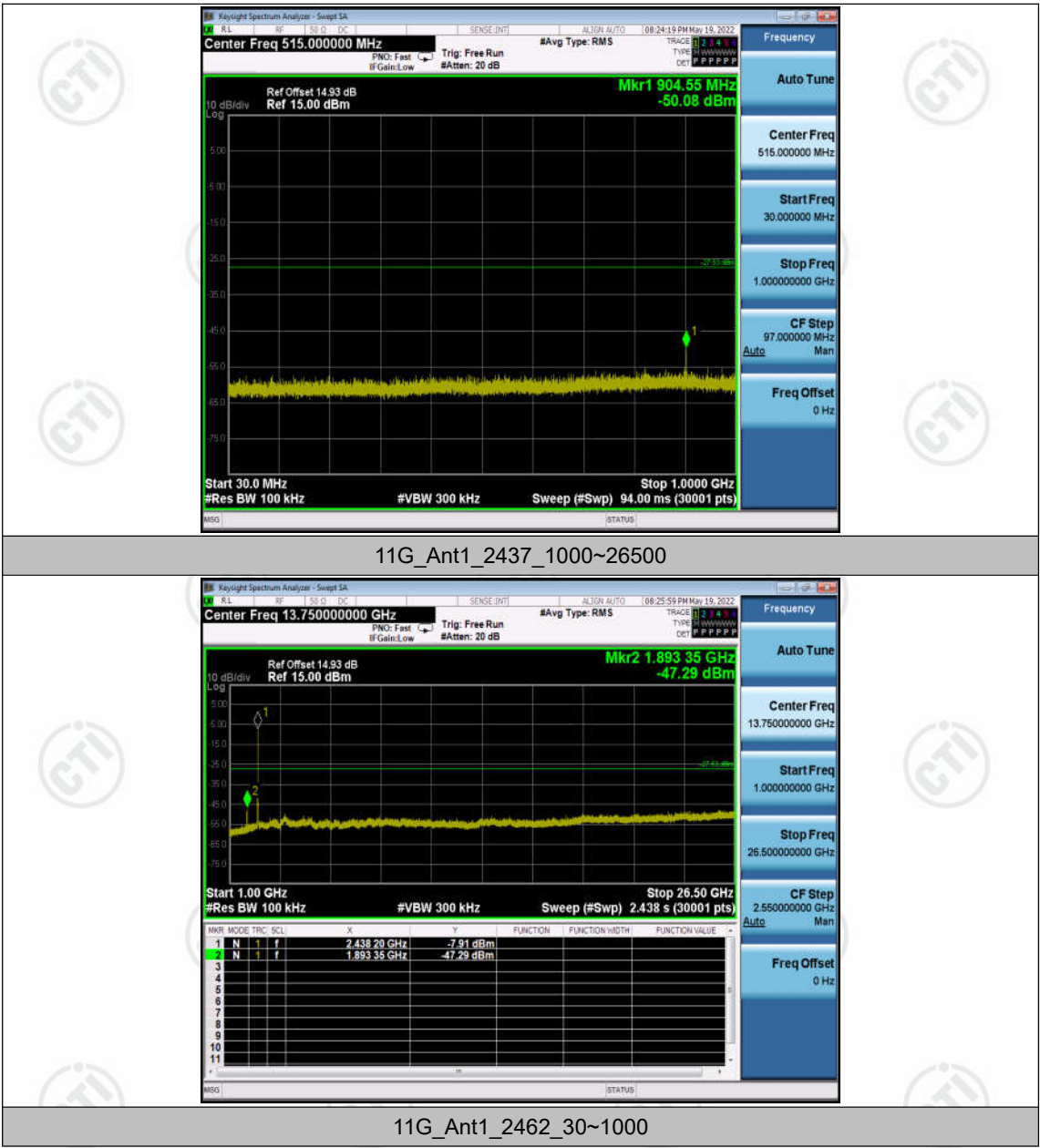
Test Graphs

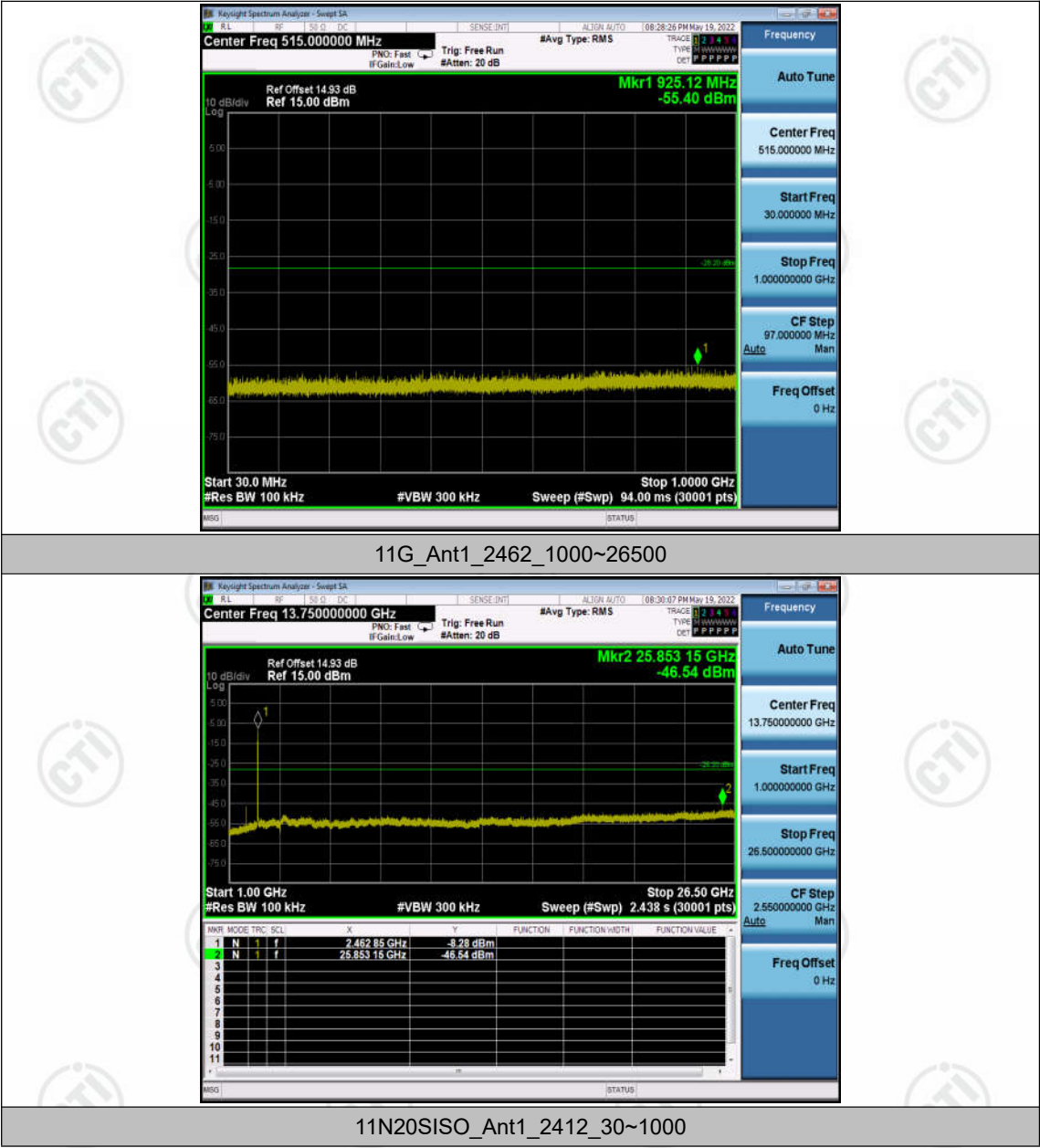


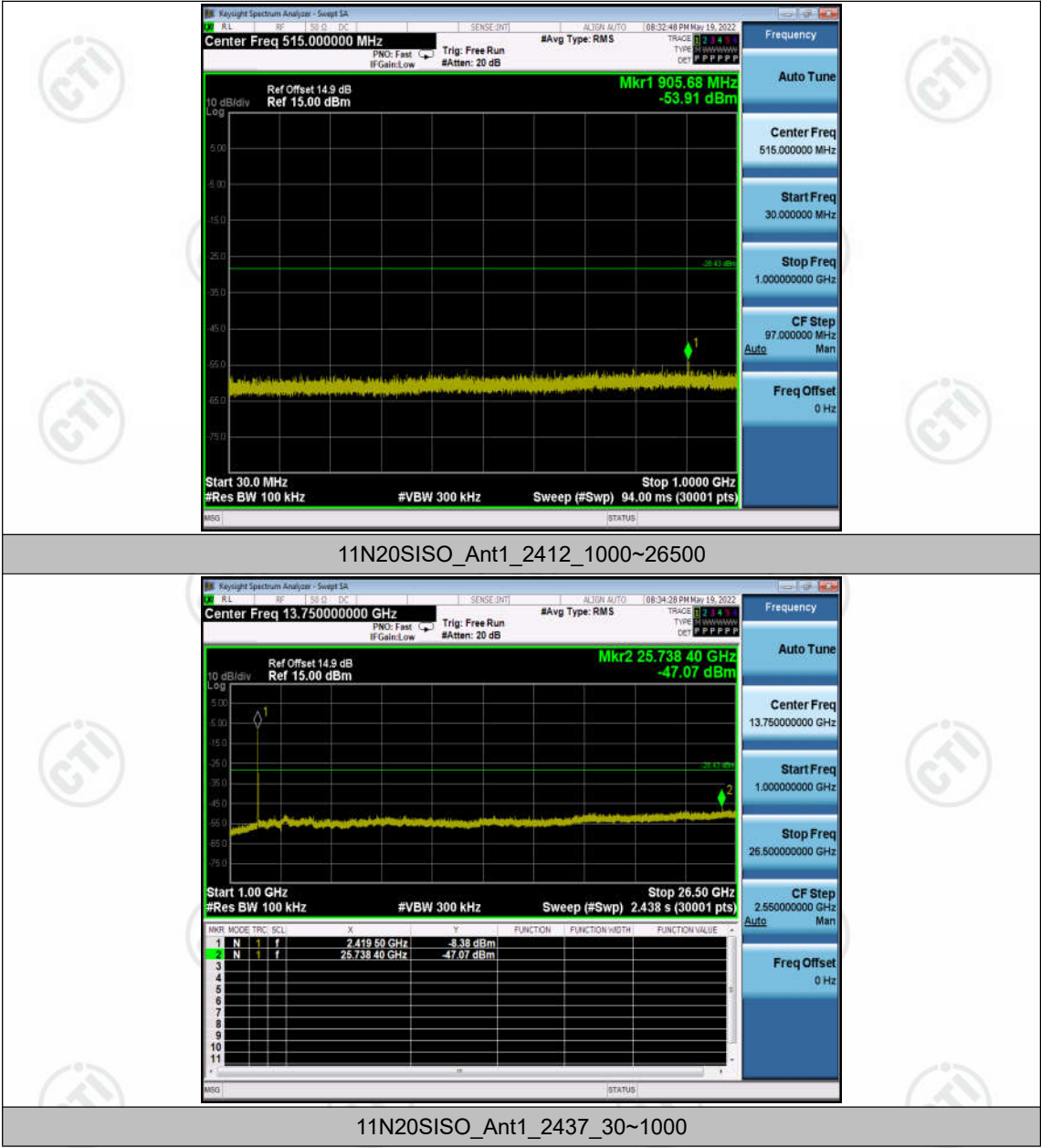


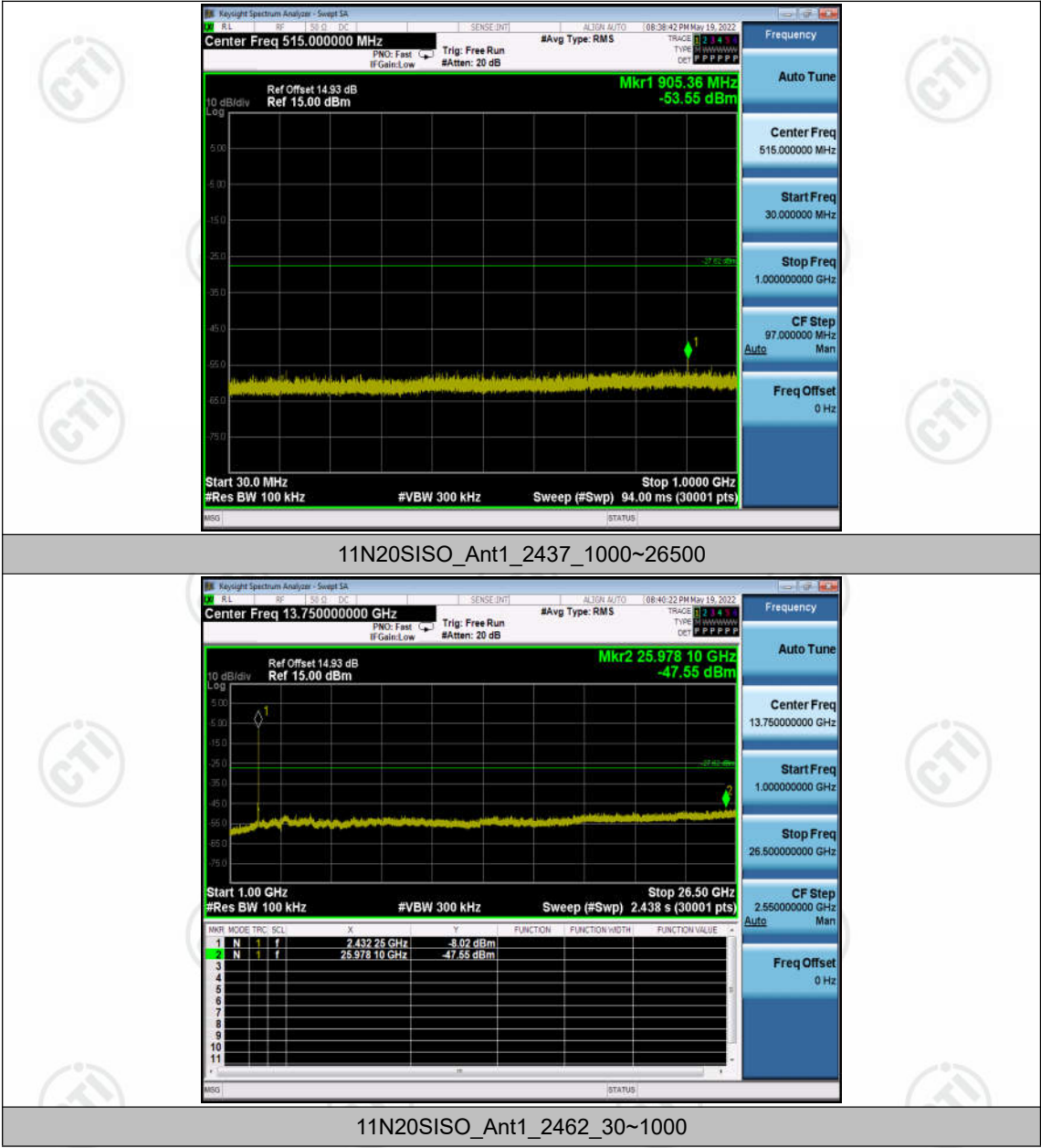


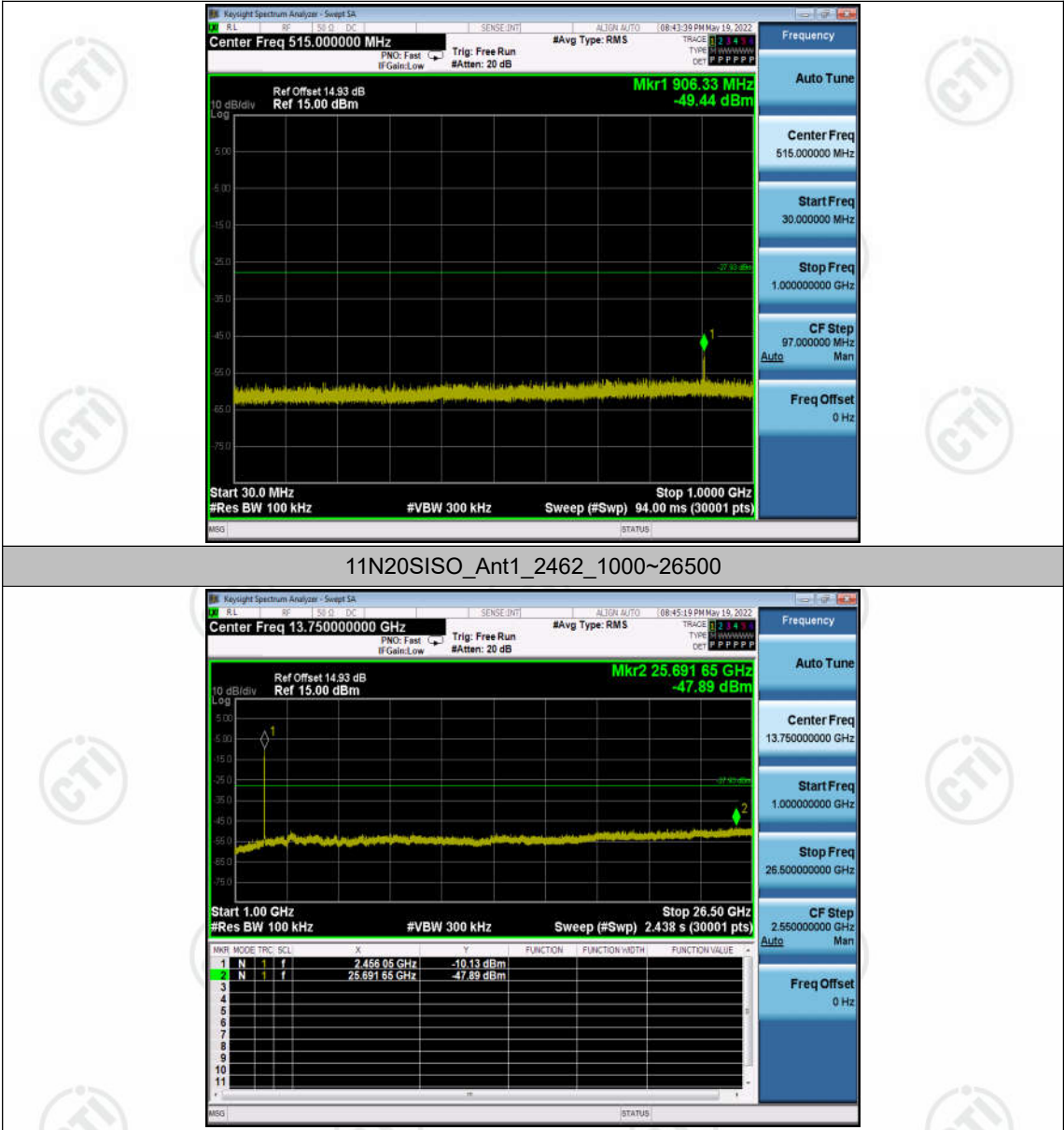












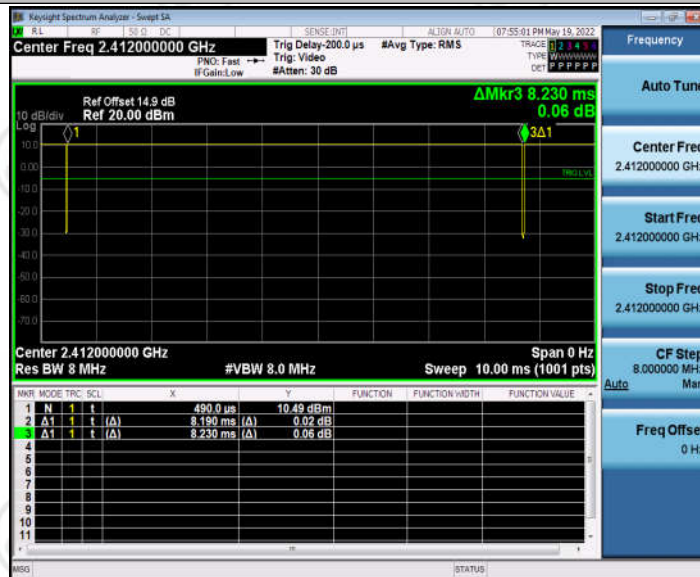
Appendix G: Duty Cycle

Test Result

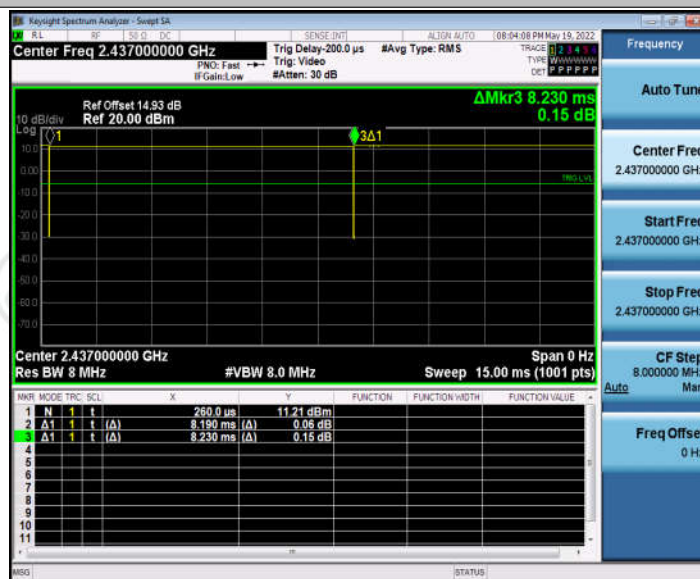
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.19	8.23	99.51
		2437	8.19	8.23	99.51
		2462	8.19	8.24	99.39
11G	Ant1	2412	1.36	1.41	96.45
		2437	1.36	1.41	96.45
		2462	1.36	1.40	97.14
11N20SIS O	Ant1	2412	1.27	1.32	96.21
		2437	1.27	1.32	96.21
		2462	1.28	1.34	95.52

Test Graphs

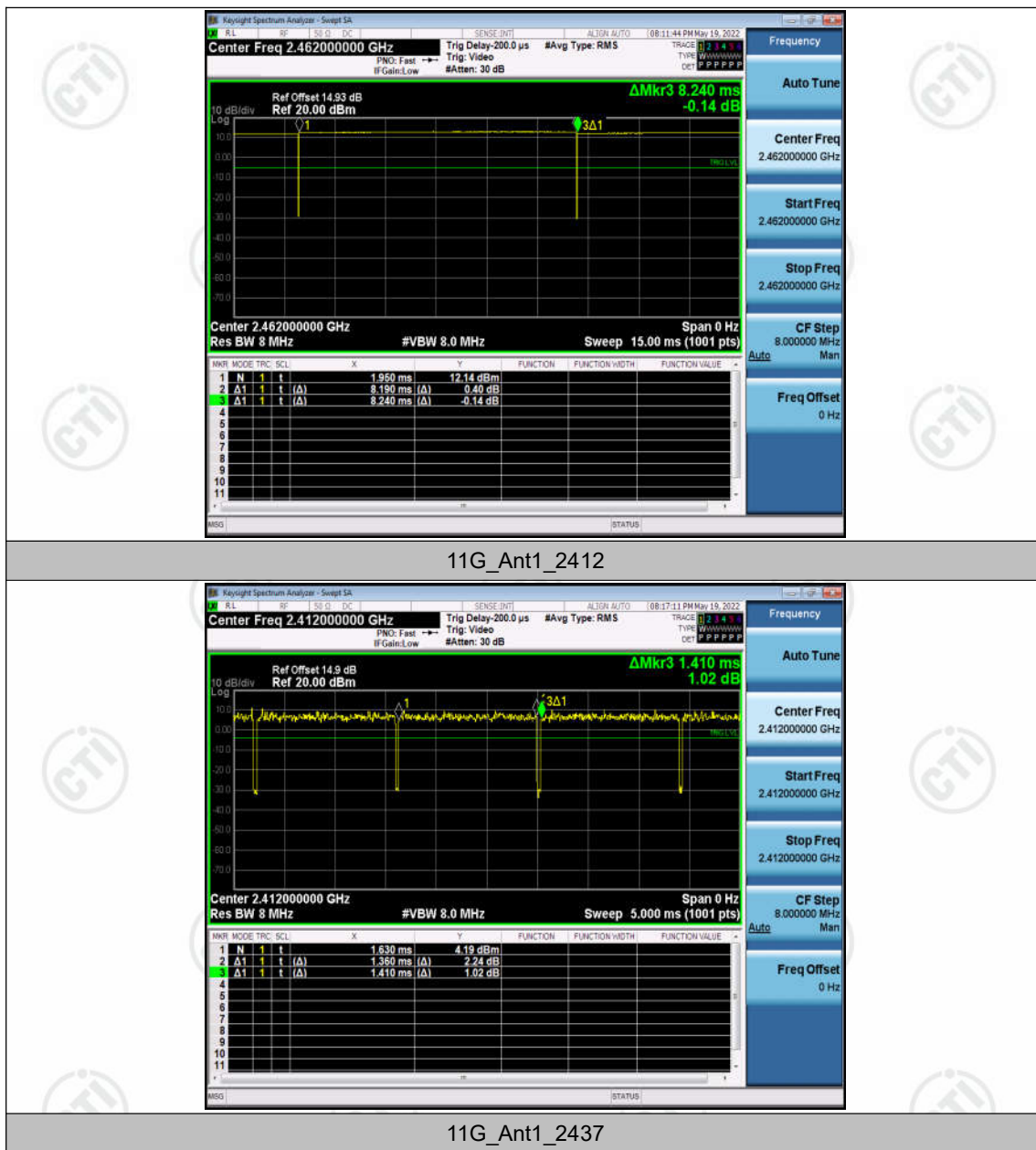
11B_Ant1_2412

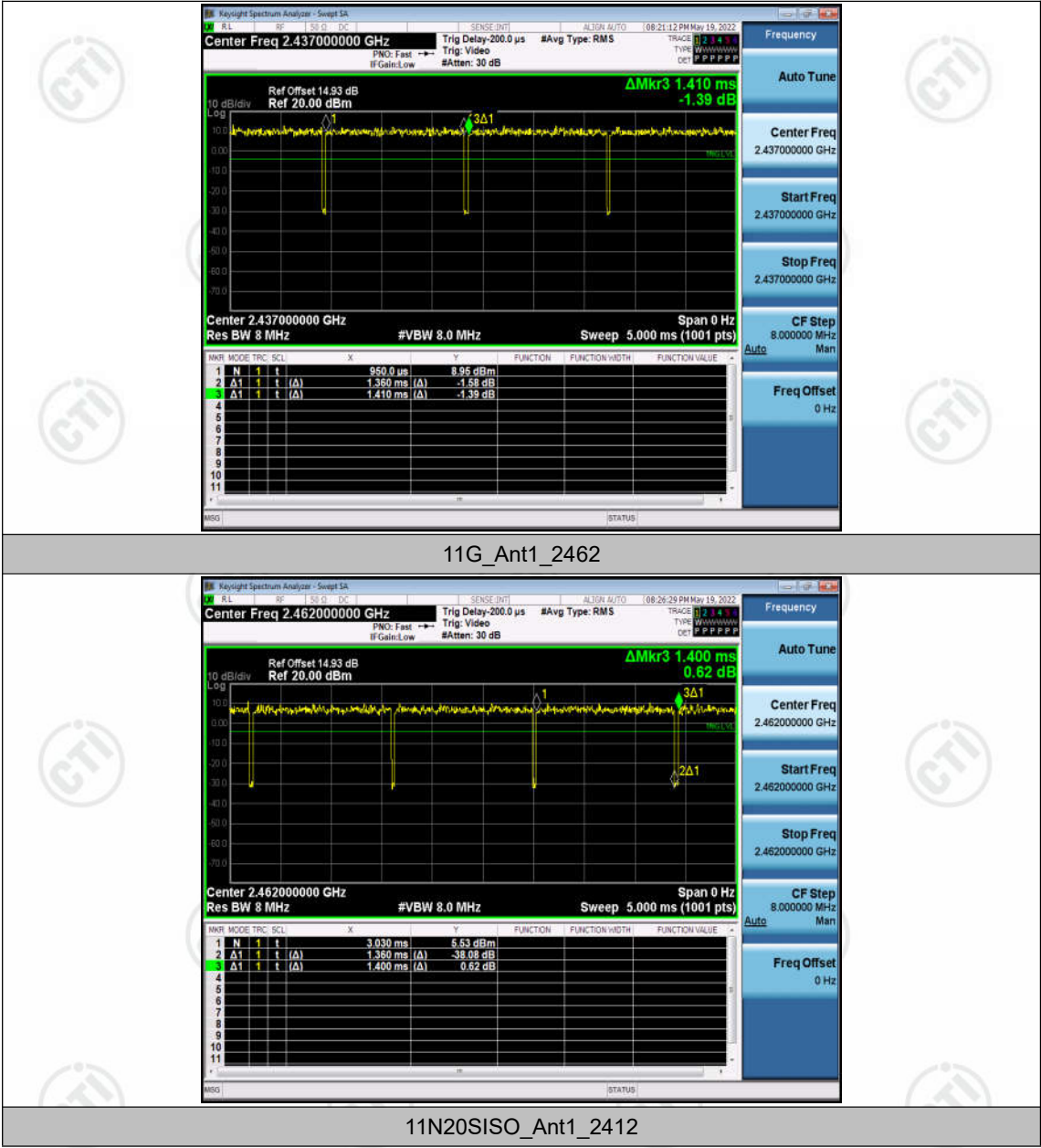


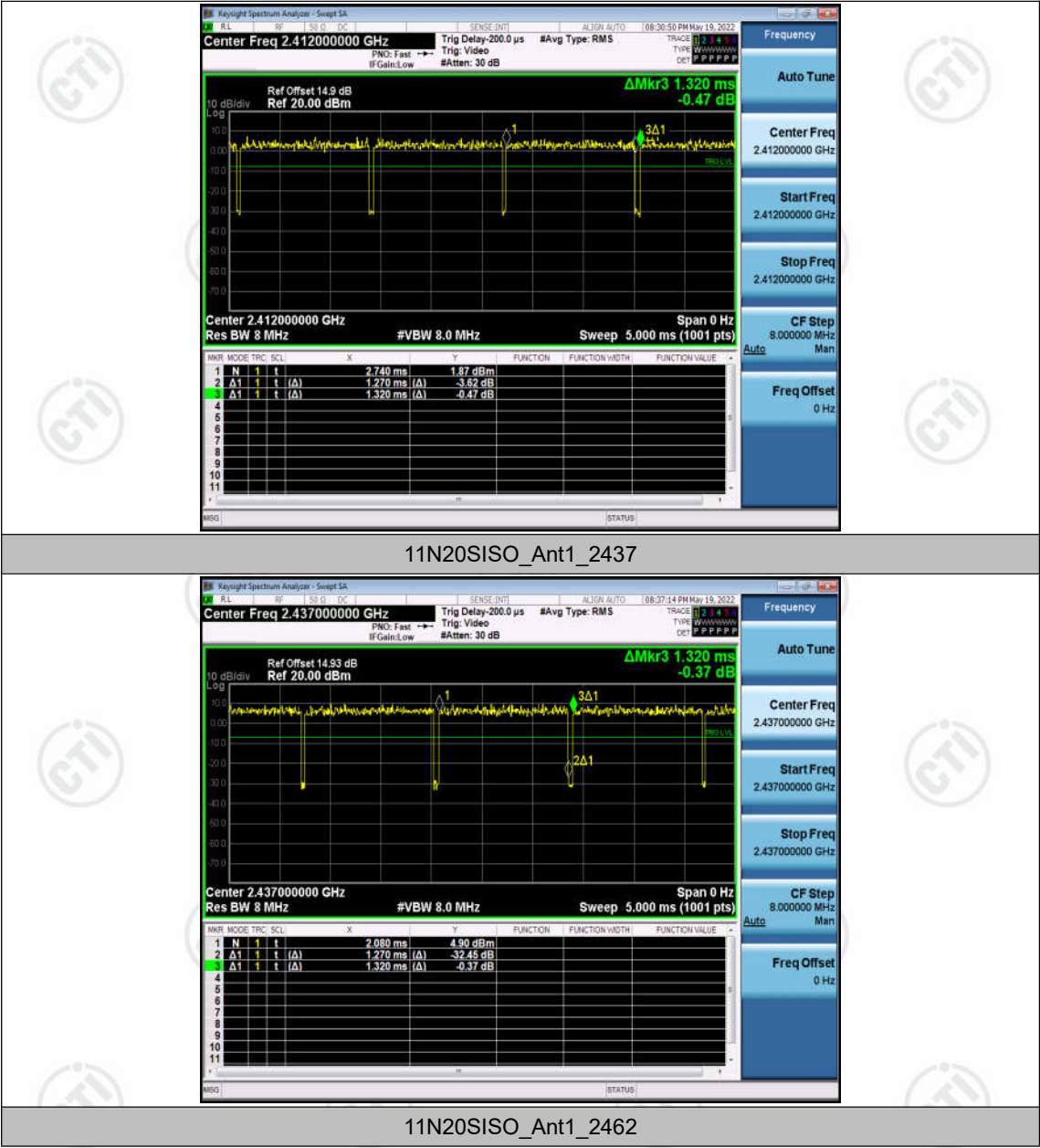
11B_Ant1_2437

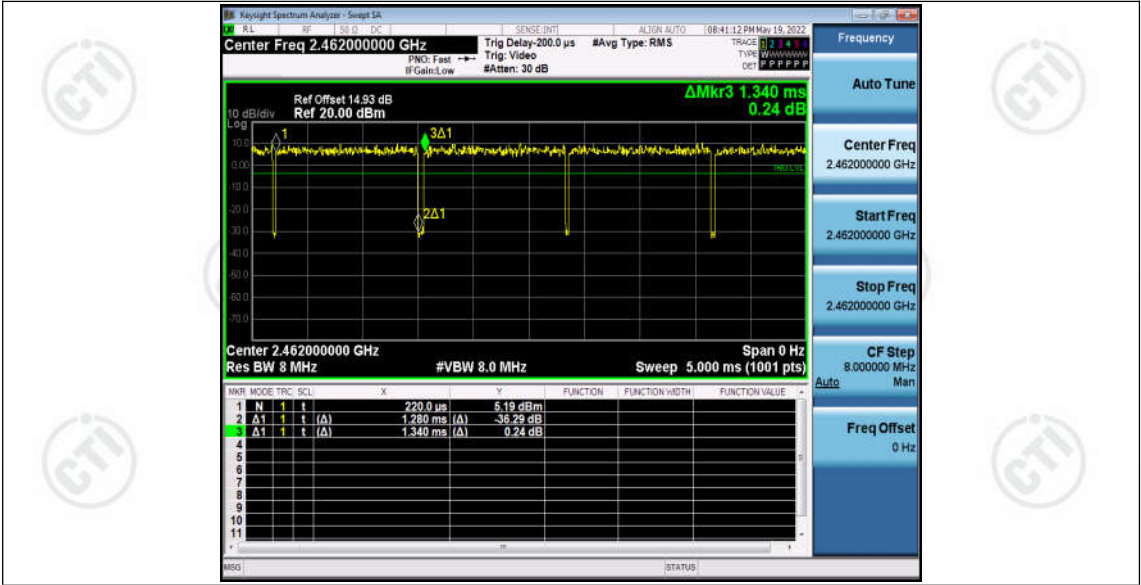


11B_Ant1_2462









END OF REPORT