

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

Product Name: Automatic Pet Feeder - Camera Monitoring 5L Double Food Tray

Trade Mark: PETLIBRO

Test Model: PLAF203

FCC ID: 2A3DE-PLAF203S

Environmental Conditions

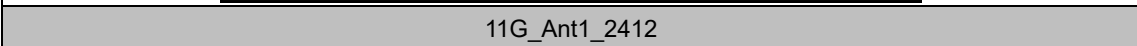
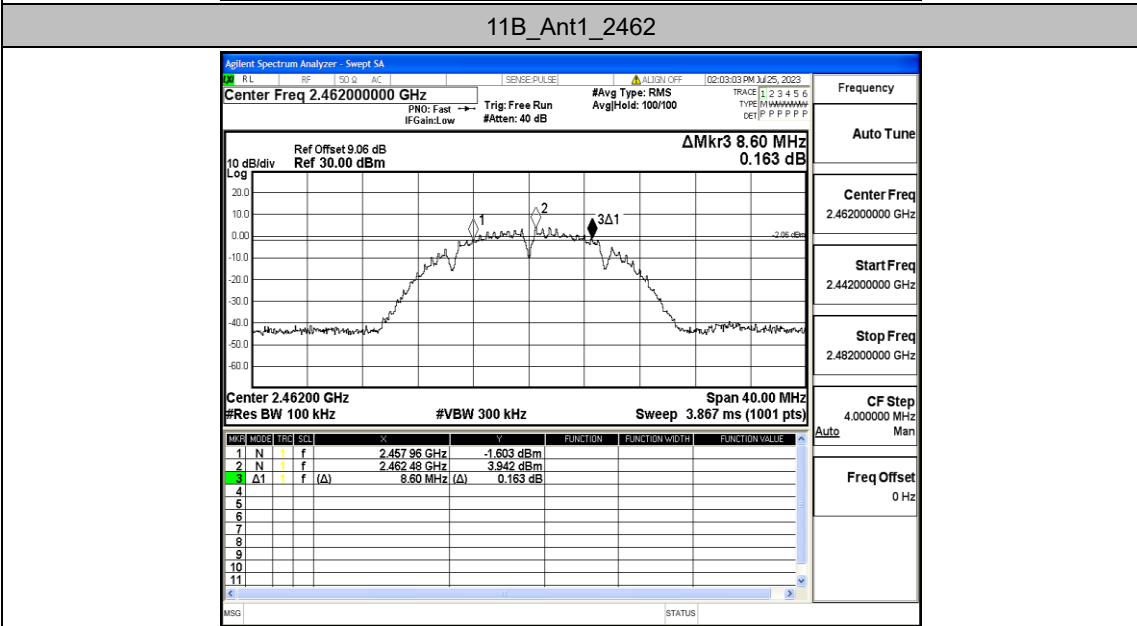
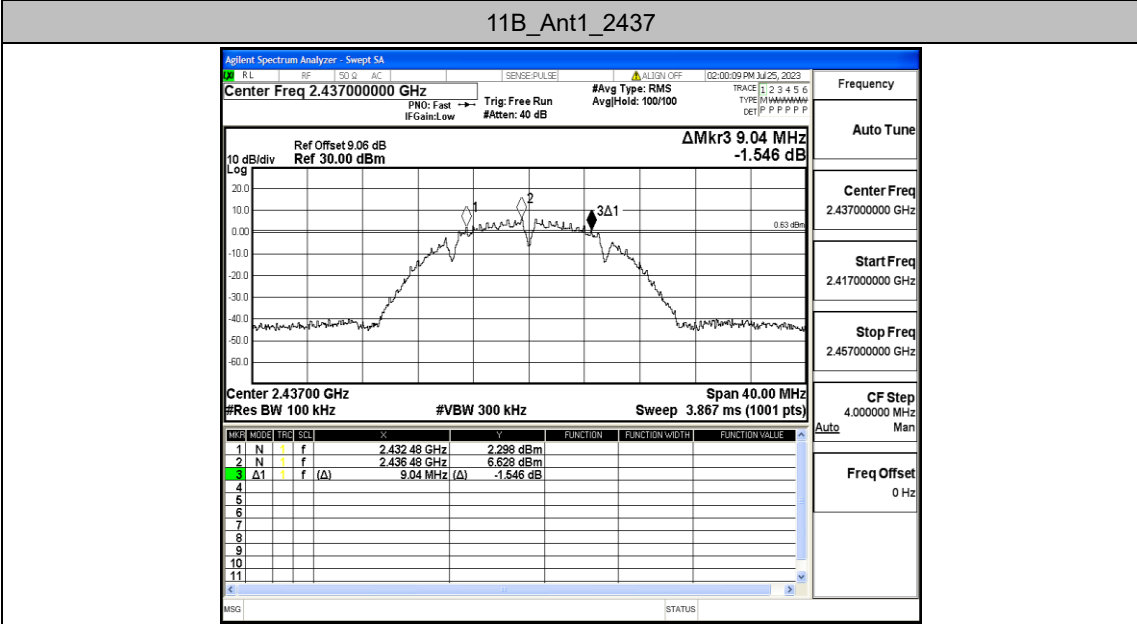
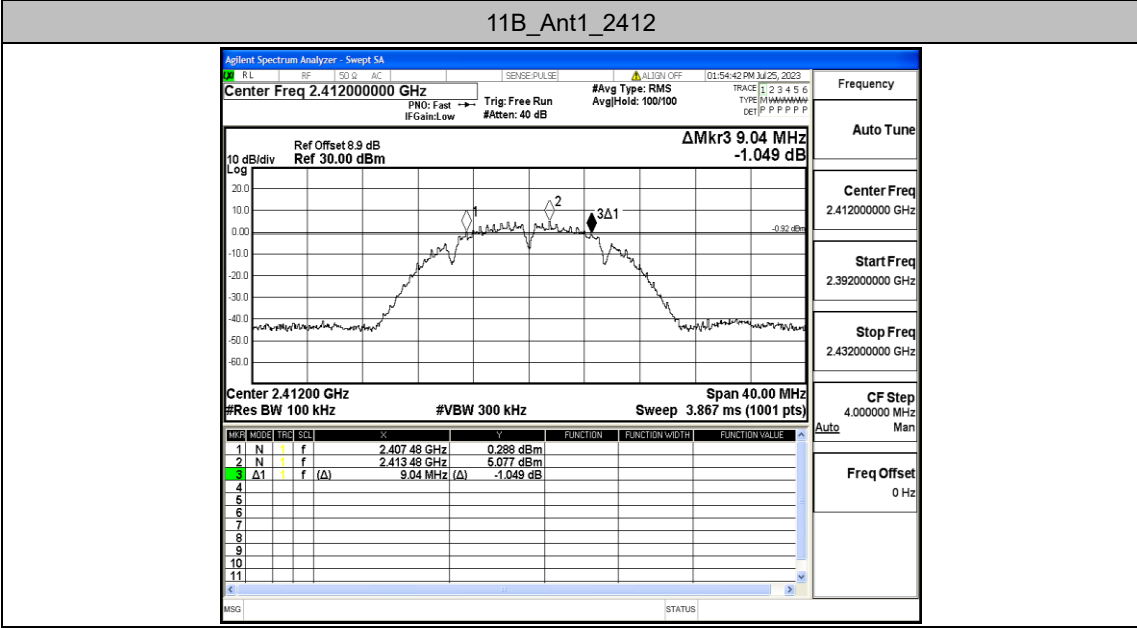
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

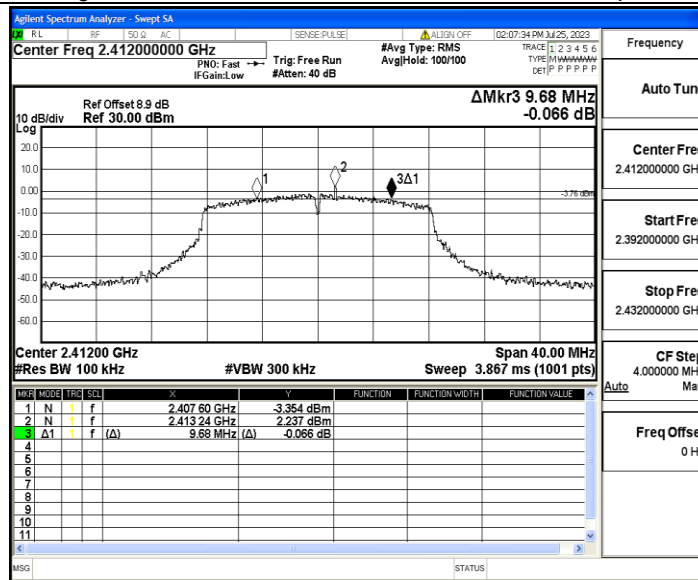
Appendix A: DTS Bandwidth

Test Result

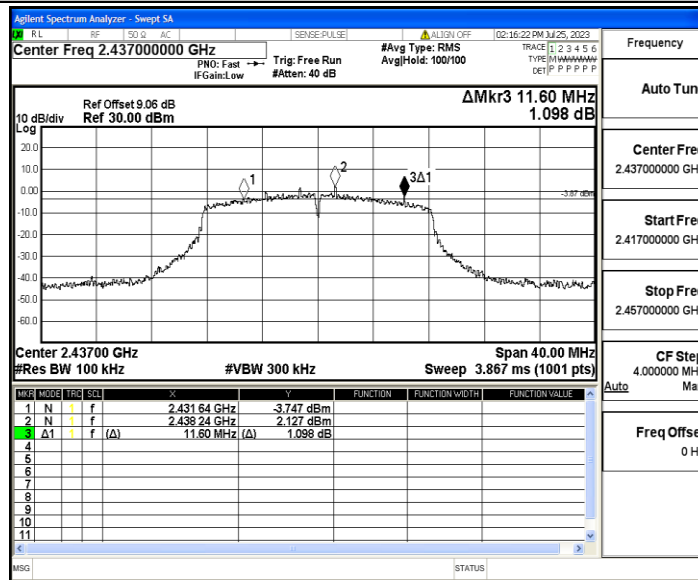
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	8.600	2457.960	2466.560	0.5	PASS
11G	Ant1	2412	9.680	2407.600	2417.280	0.5	PASS
		2437	11.600	2431.640	2443.240	0.5	PASS
		2462	15.160	2454.720	2469.880	0.5	PASS
11N20SISO	Ant1	2412	12.840	2405.680	2418.520	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.760	2469.880	0.5	PASS
11N40SISO	Ant1	2422	27.600	2409.440	2437.040	0.5	PASS
		2437	23.760	2424.440	2448.200	0.5	PASS
		2452	29.680	2437.360	2467.040	0.5	PASS

Test Graphs

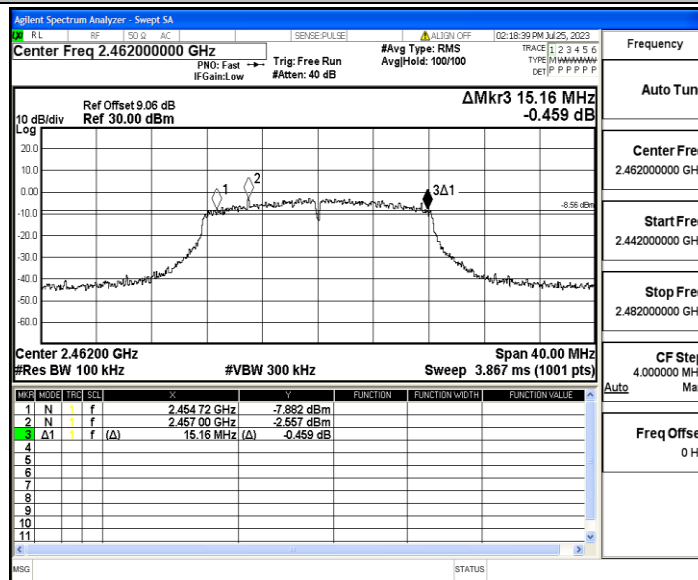




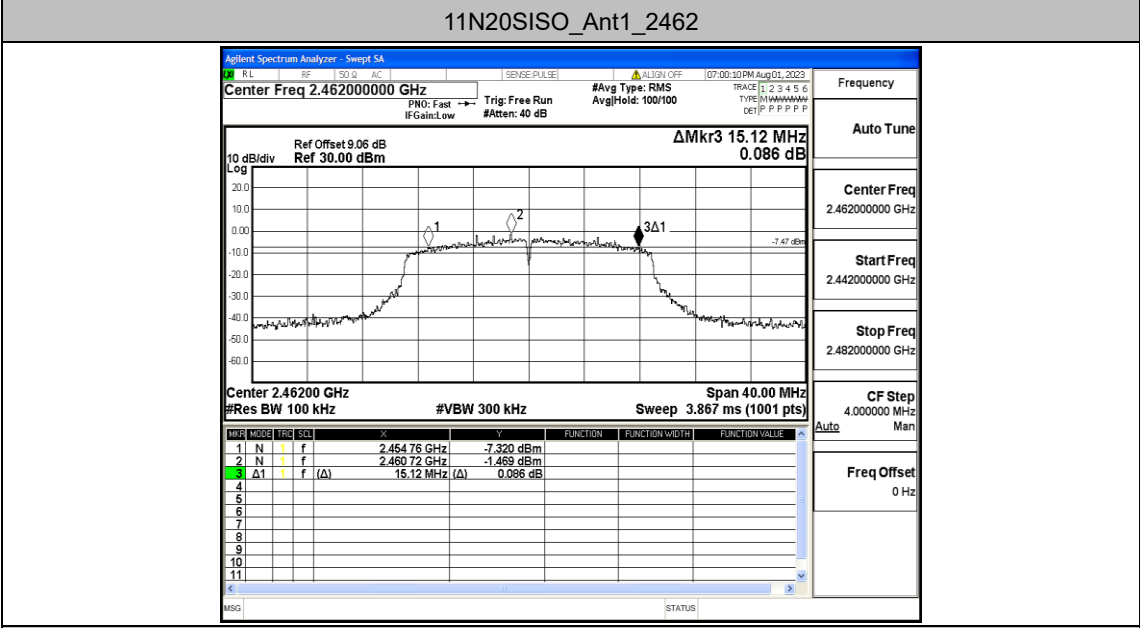
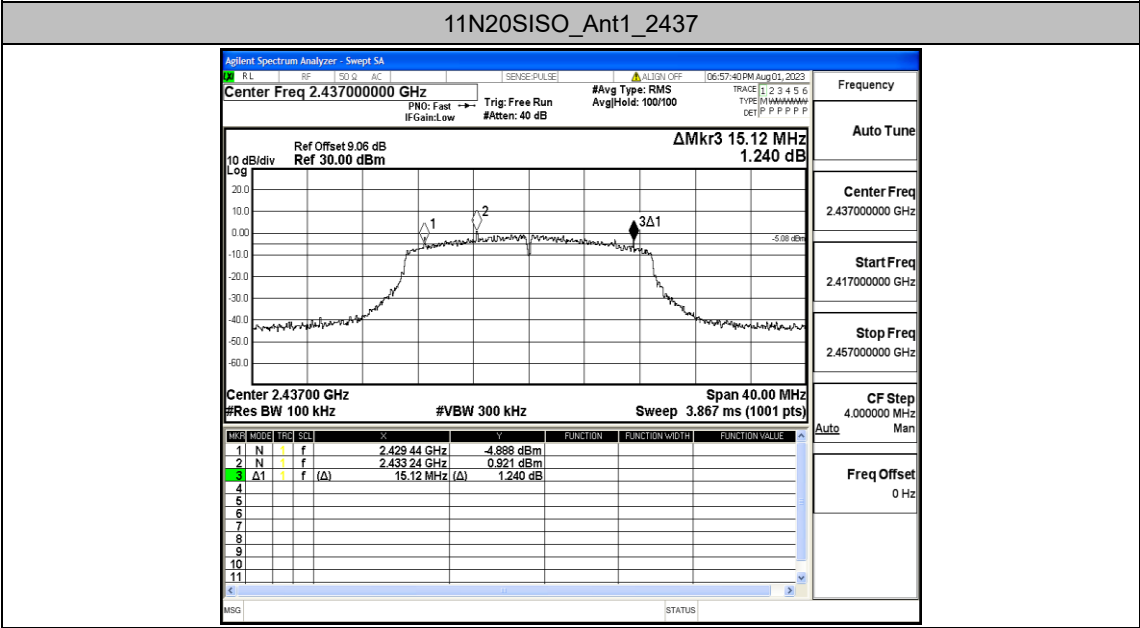
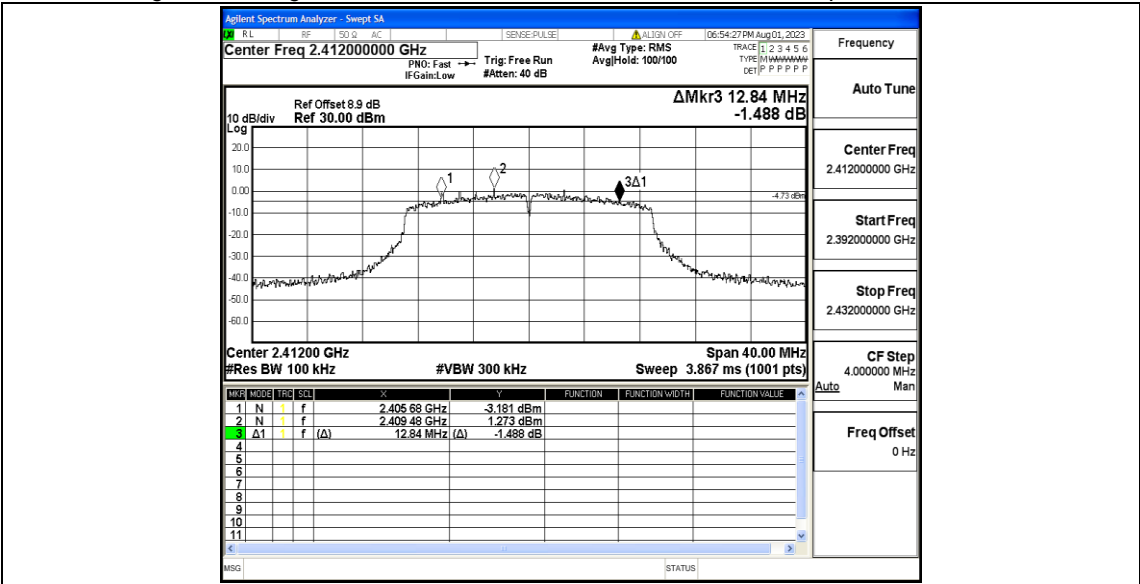
11G_Ant1_2437

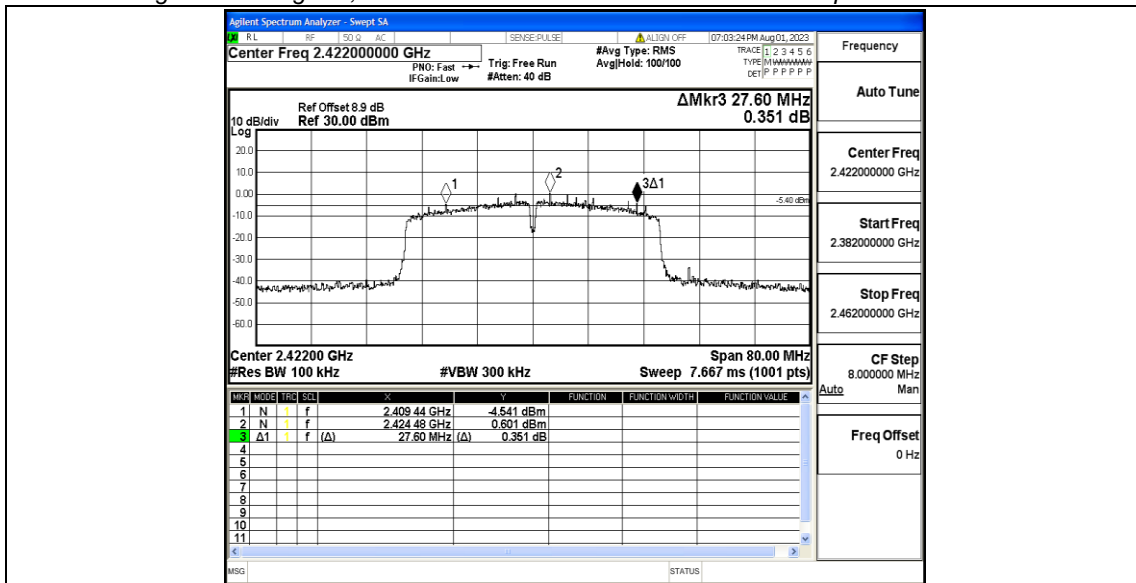


11G_Ant1_2462

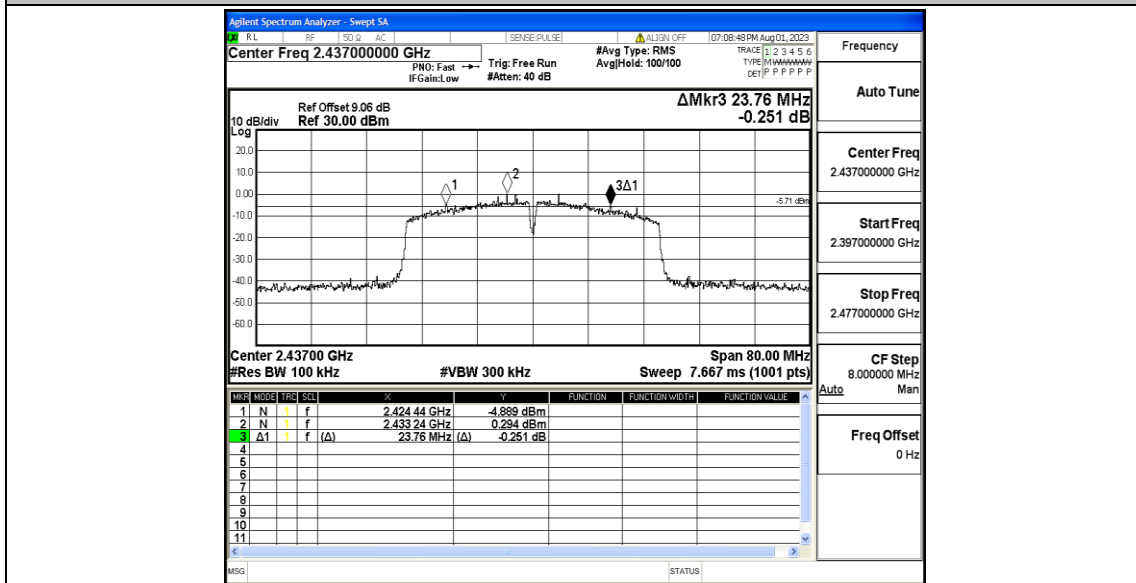


11N20SISO_Ant1_2412

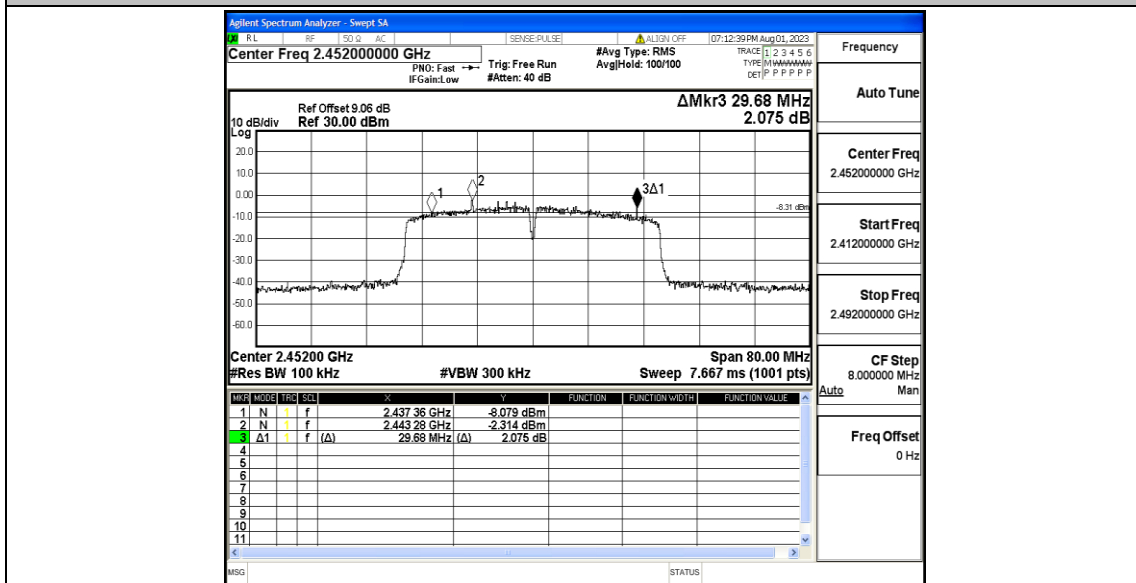




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

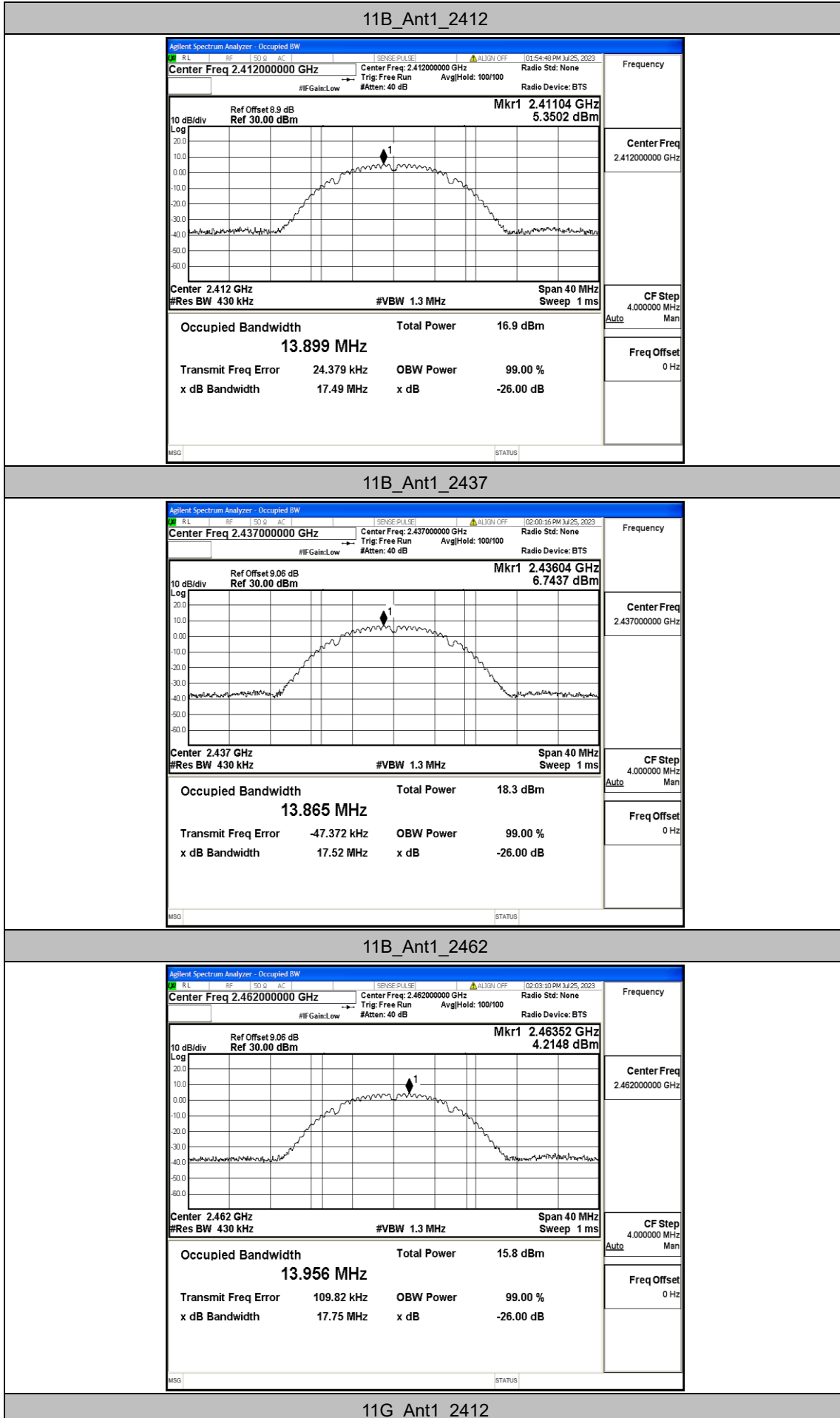


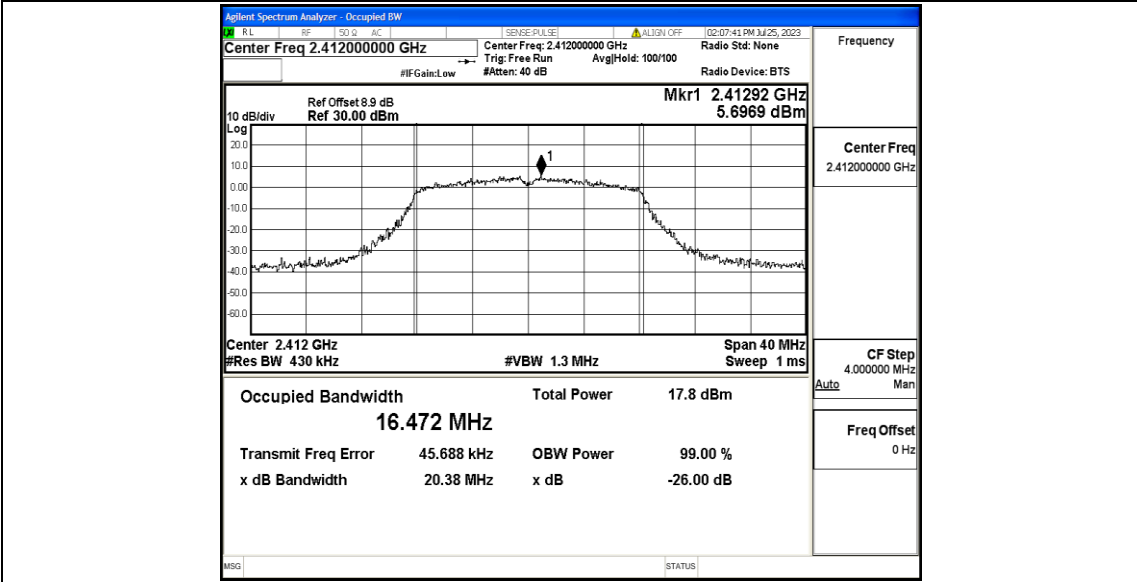
Appendix B: Occupied Channel Bandwidth

Test Result

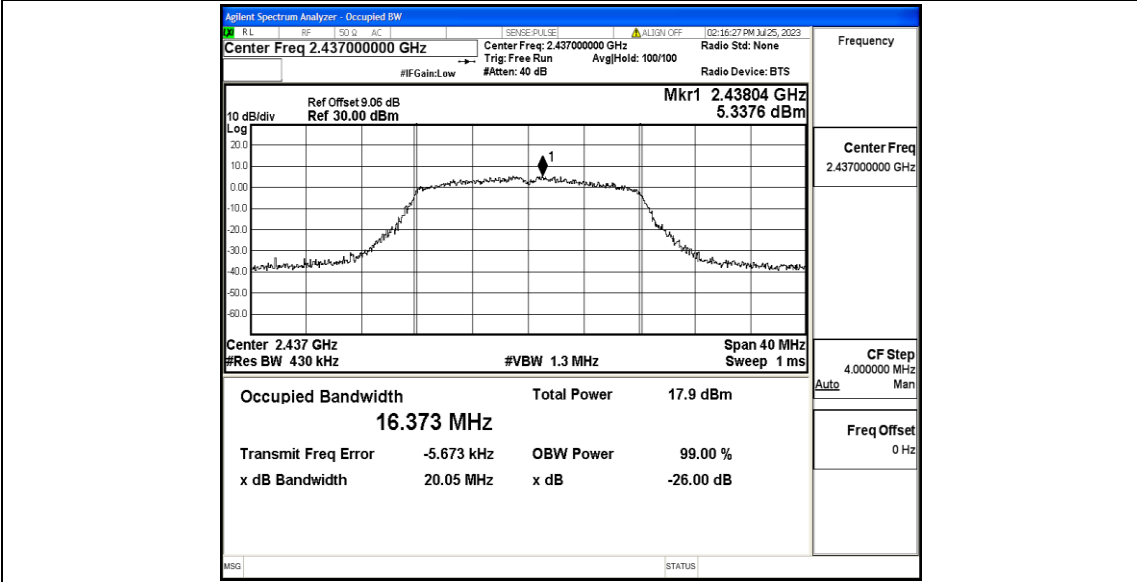
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.899	2405.0749	2418.9739	---	---
		2437	13.865	2430.0201	2443.8851	---	---
		2462	13.956	2455.1318	2469.0878	---	---
11G	Ant1	2412	16.472	2403.8097	2420.2817	---	---
		2437	16.373	2428.8078	2445.1808	---	---
		2462	16.473	2453.8292	2470.3022	---	---
11N20SISO	Ant1	2412	17.516	2403.2873	2420.8033	---	---
		2437	17.387	2428.2924	2445.6794	---	---
		2462	17.580	2453.2627	2470.8427	---	---
11N40SISO	Ant1	2422	35.271	2404.4435	2439.7145	---	---
		2437	35.012	2419.4933	2454.5053	---	---
		2452	35.486	2434.2669	2469.7529	---	---

Test Graphs

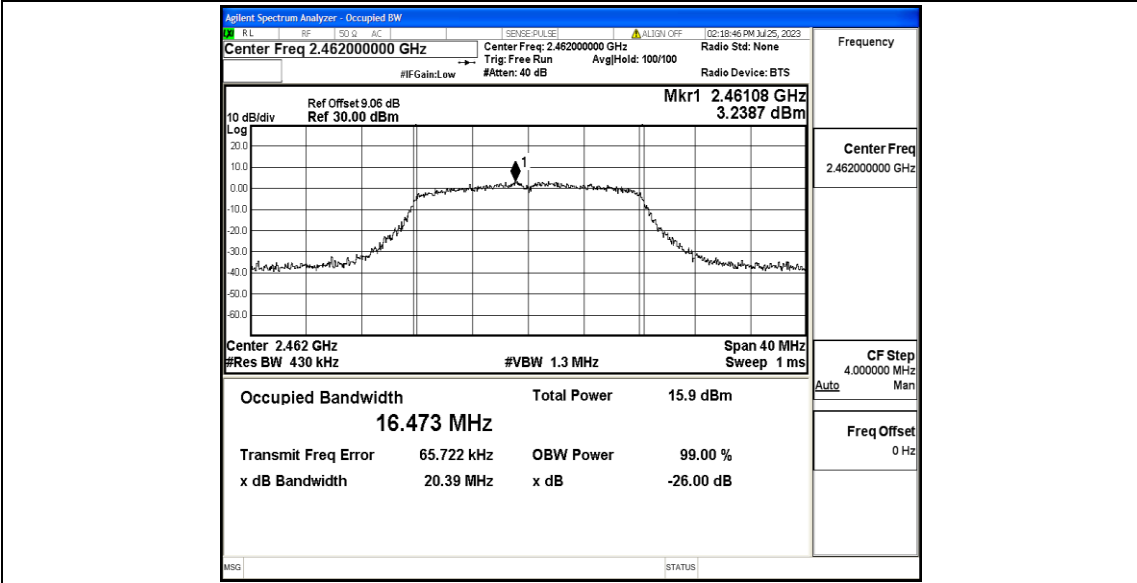




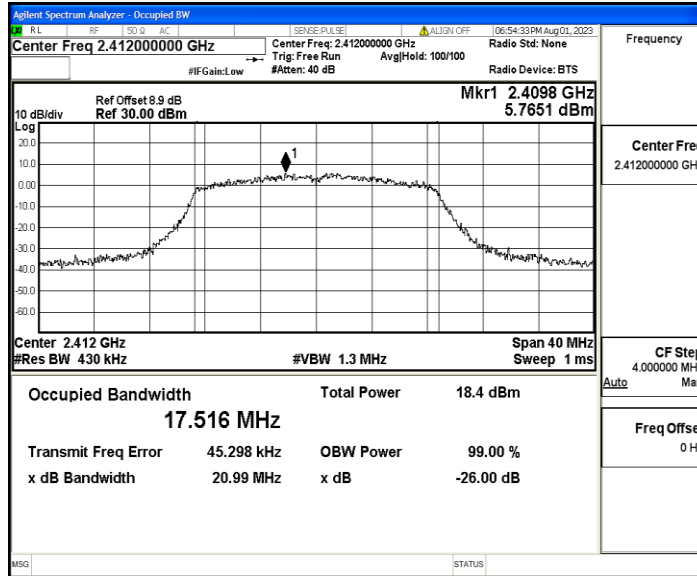
11G_Ant1_2437



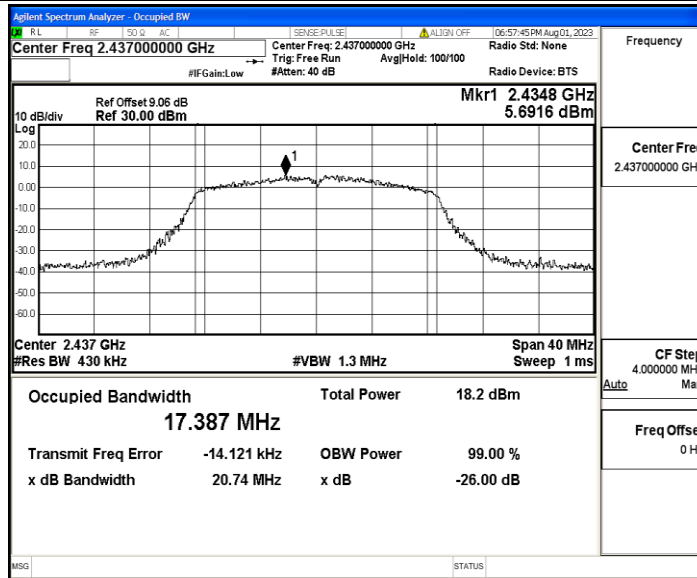
11G_Ant1_2462



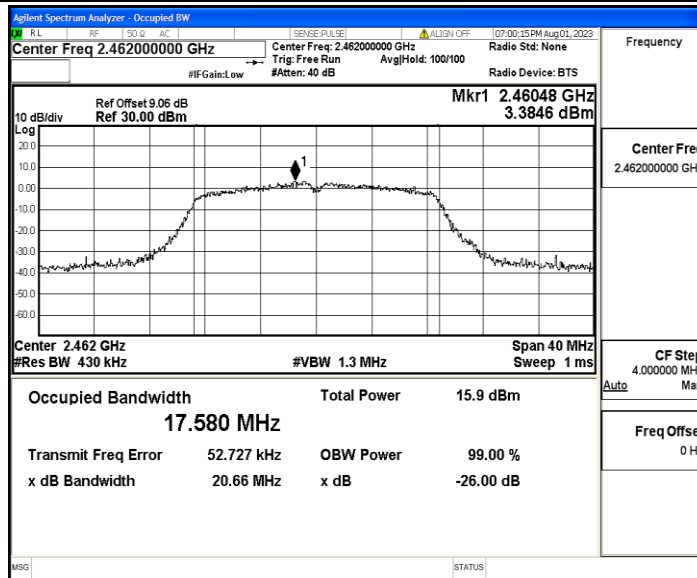
11N20SISO_Ant1_2412



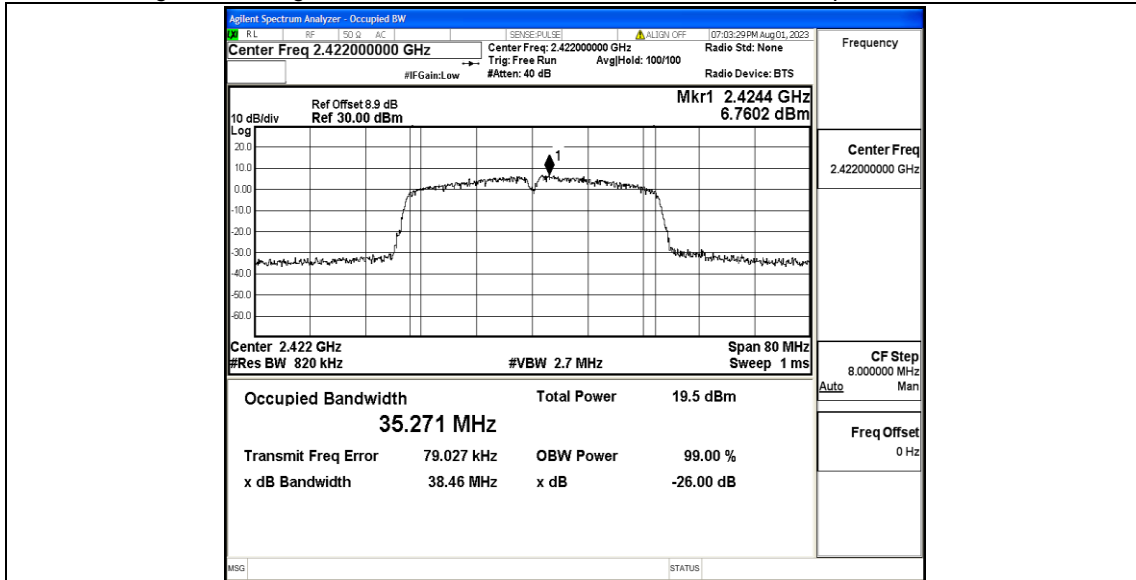
11N20SISO_Ant1_2437



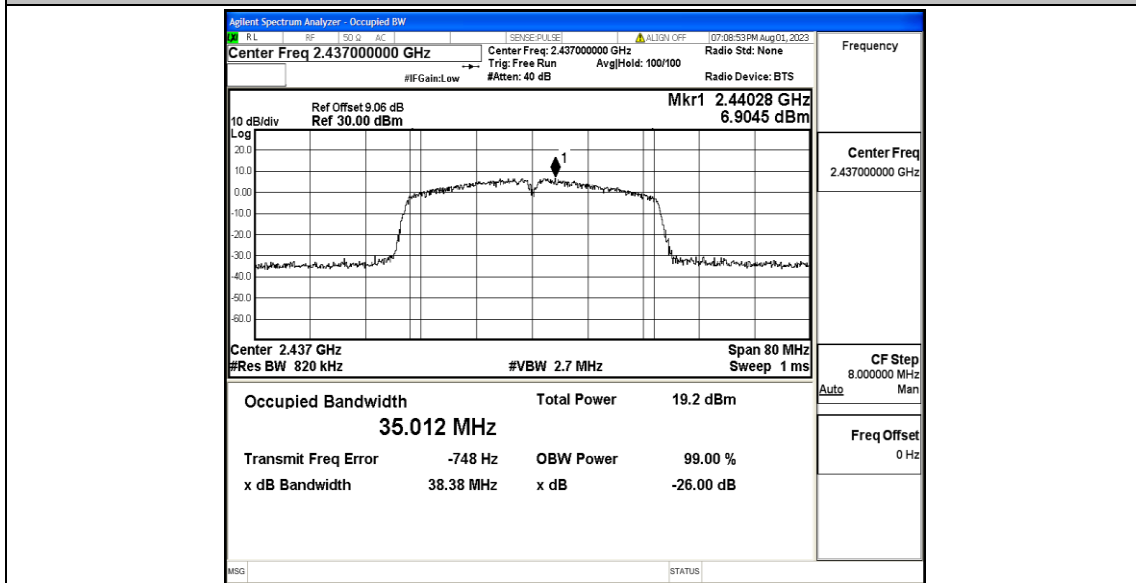
11N20SISO_Ant1_2462



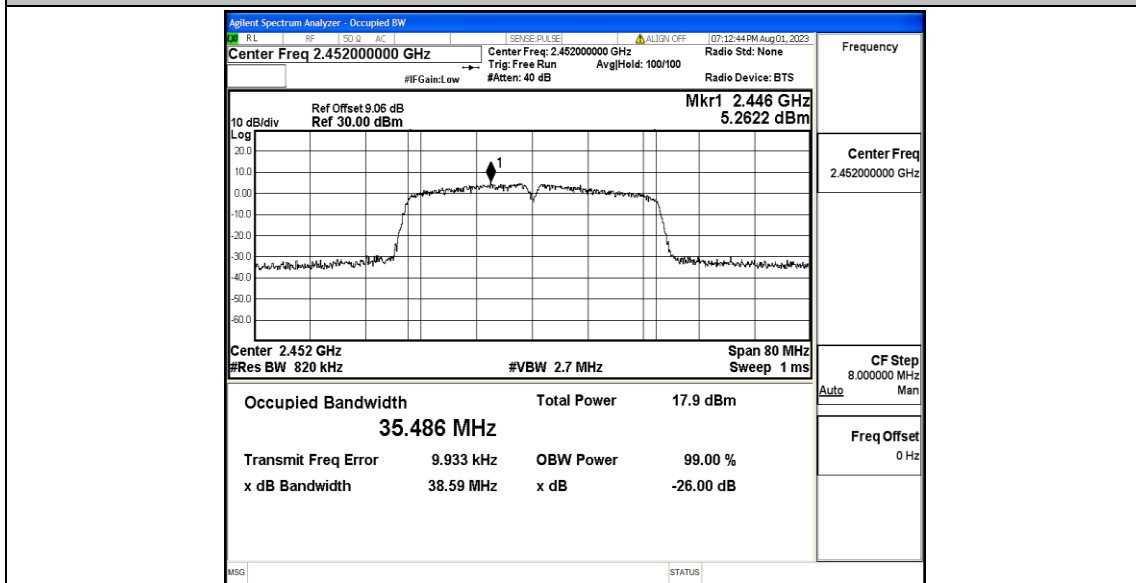
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.91	≤30.00	PASS
		2437	15.40	≤30.00	PASS
		2462	12.73	≤30.00	PASS
11G	Ant1	2412	12.82	≤30.00	PASS
		2437	13.02	≤30.00	PASS
		2462	10.95	≤30.00	PASS
11N20SISO	Ant1	2412	13.55	≤30.00	PASS
		2437	13.85	≤30.00	PASS
		2462	11.47	≤30.00	PASS
11N40SISO	Ant1	2422	12.87	≤30.00	PASS
		2437	13.25	≤30.00	PASS
		2452	11.35	≤30.00	PASS

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

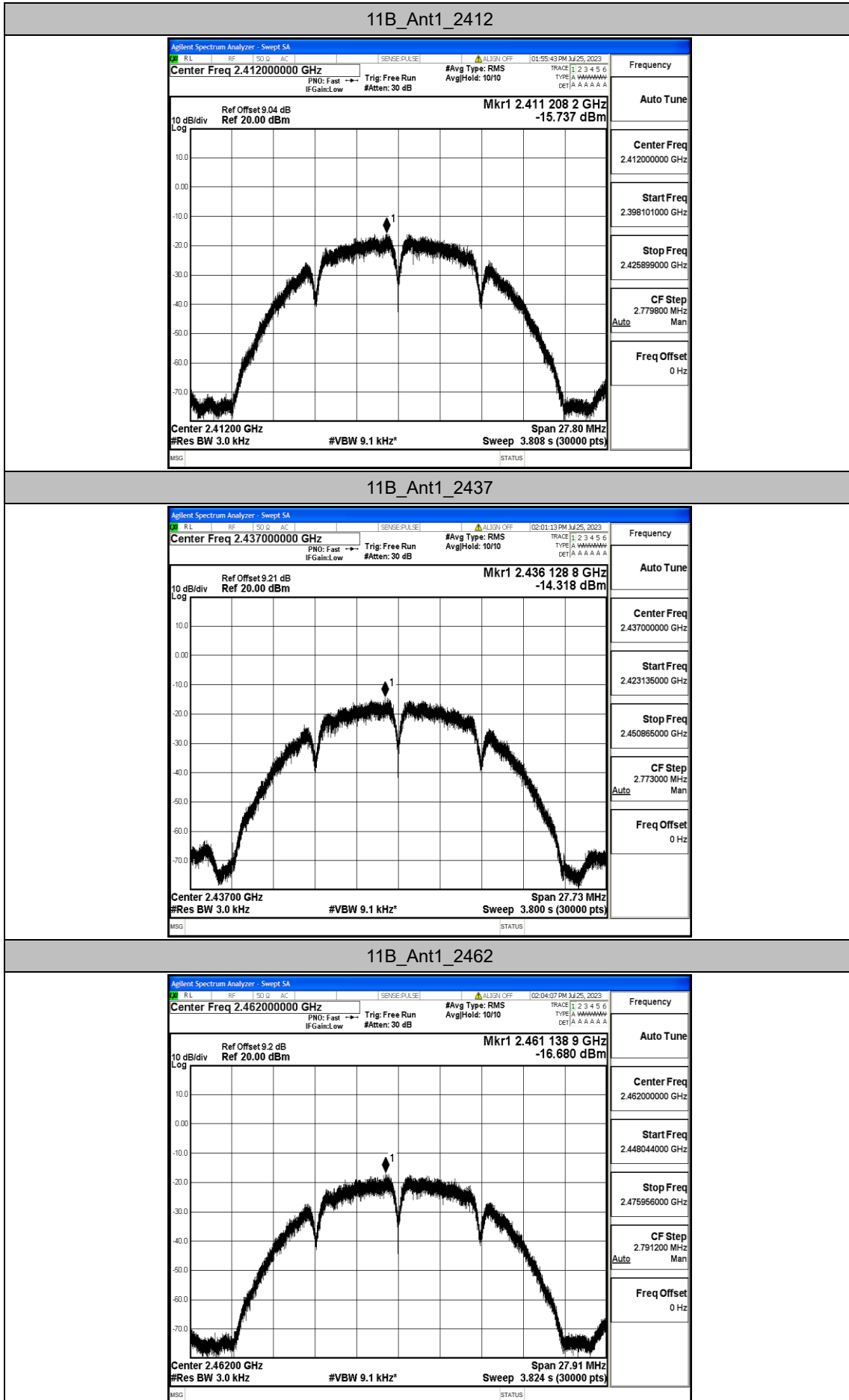
Appendix D: Maximum power spectral density

Test Result

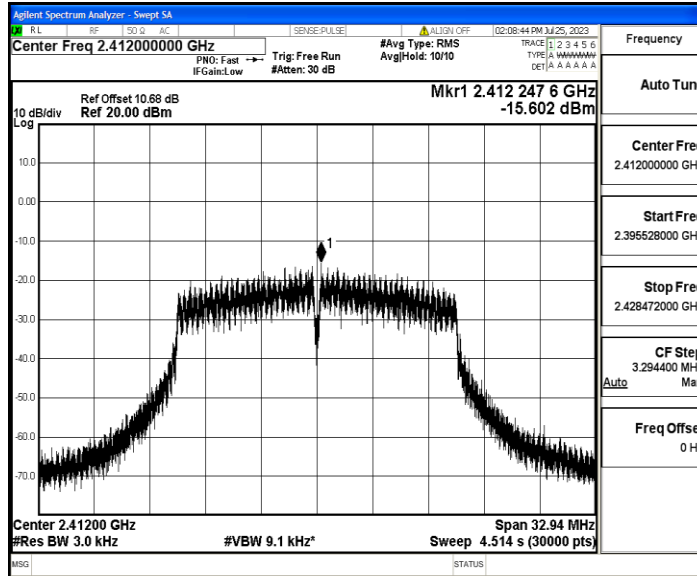
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.74	≤8.00	PASS
		2437	-14.32	≤8.00	PASS
		2462	-16.68	≤8.00	PASS
11G	Ant1	2412	-15.6	≤8.00	PASS
		2437	-16.89	≤8.00	PASS
		2462	-17.97	≤8.00	PASS
11N20SISO	Ant1	2412	-15.8	≤8.00	PASS
		2437	-14.29	≤8.00	PASS
		2462	-17.59	≤8.00	PASS
11N40SISO	Ant1	2422	-17.36	≤8.00	PASS
		2437	-17.67	≤8.00	PASS
		2452	-18.32	≤8.00	PASS

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

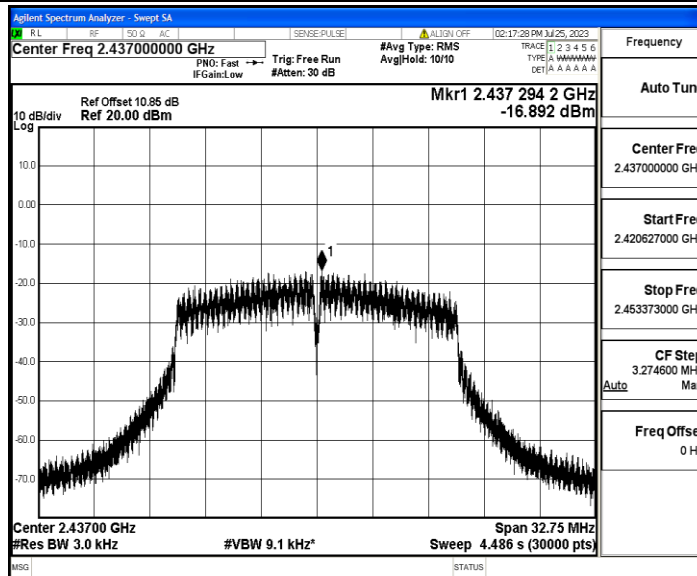
Test Graphs



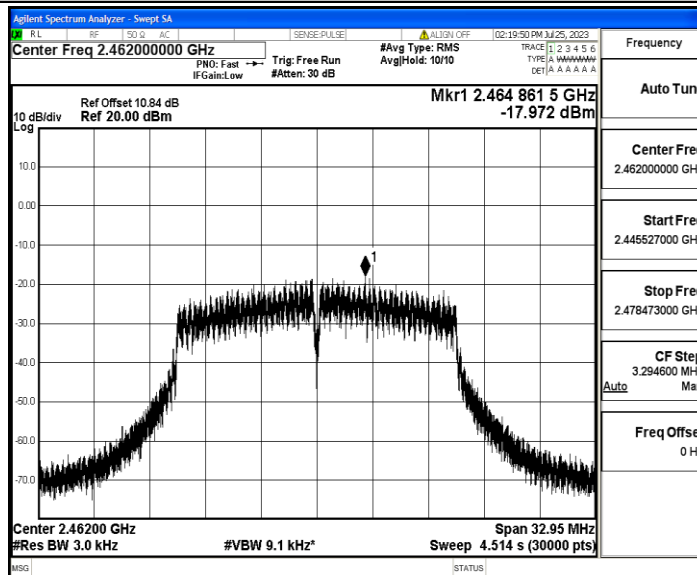
11G_Ant1_2412



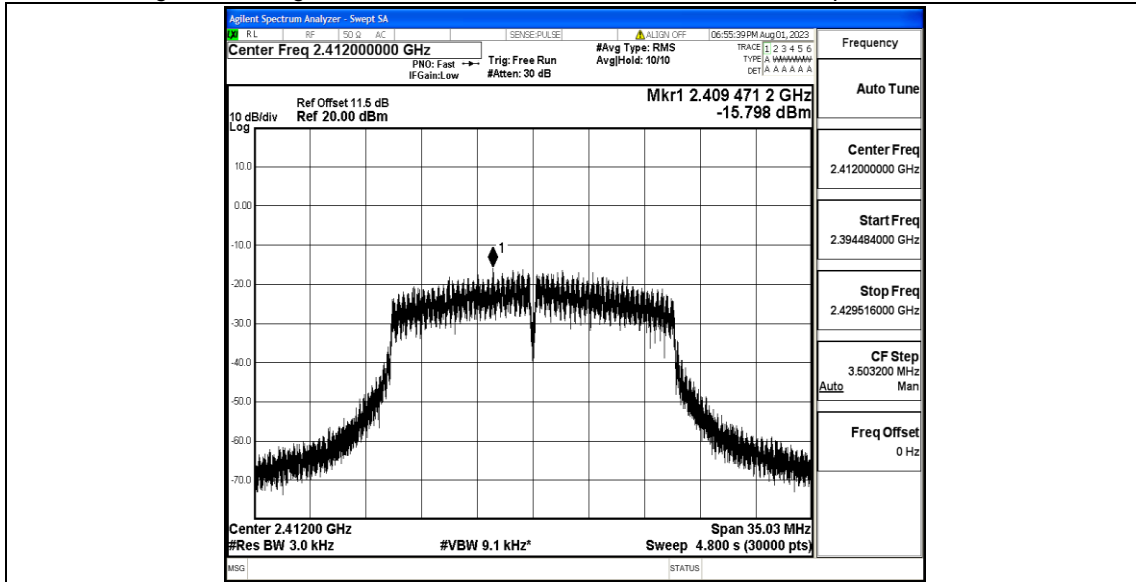
11G_Ant1_2437



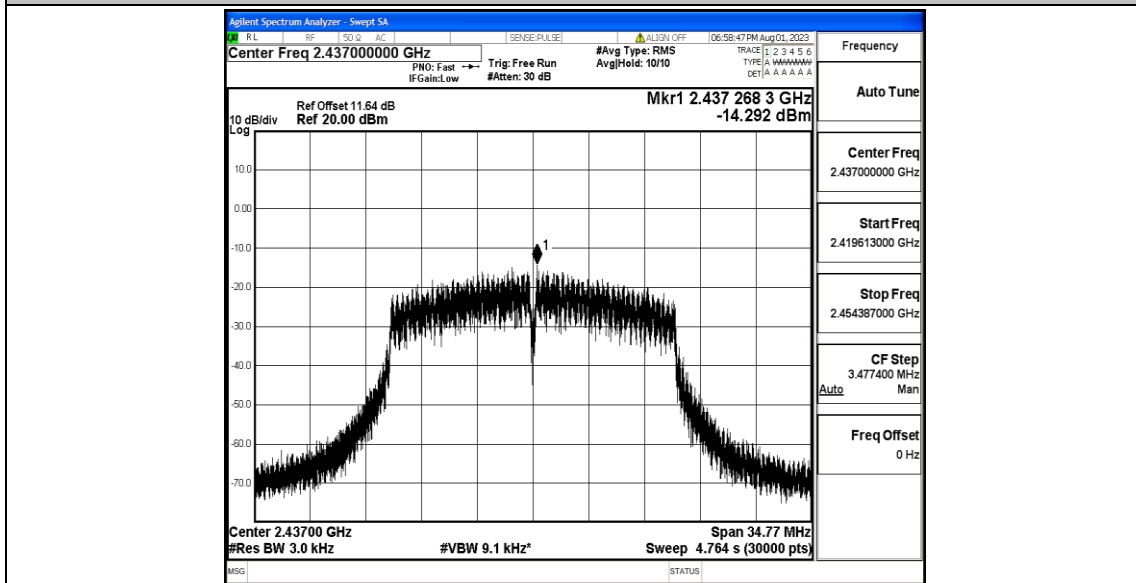
11G_Ant1_2462



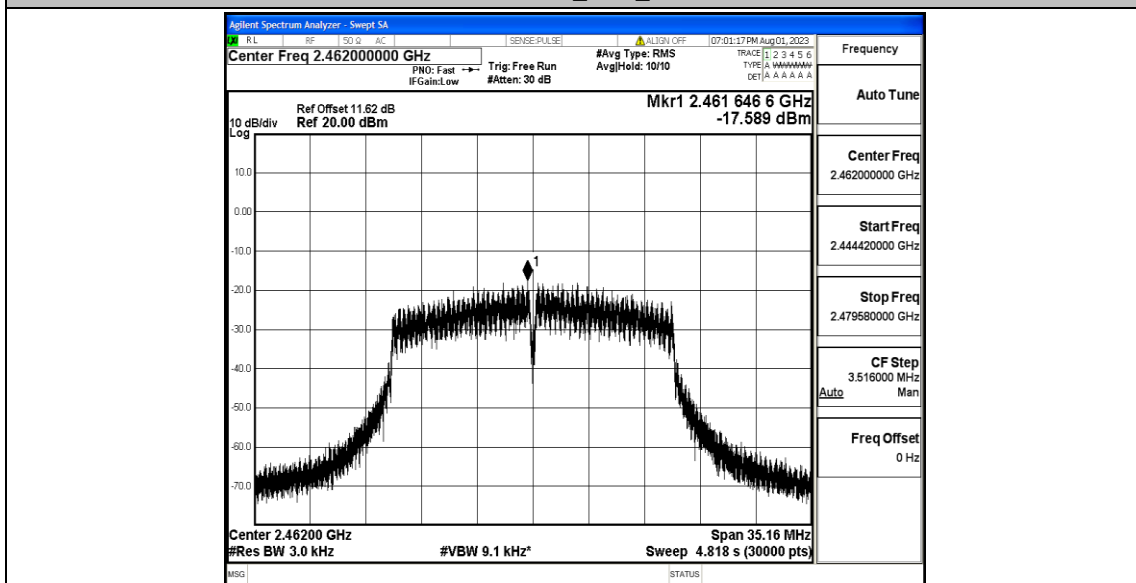
11N20SISO_Ant1_2412



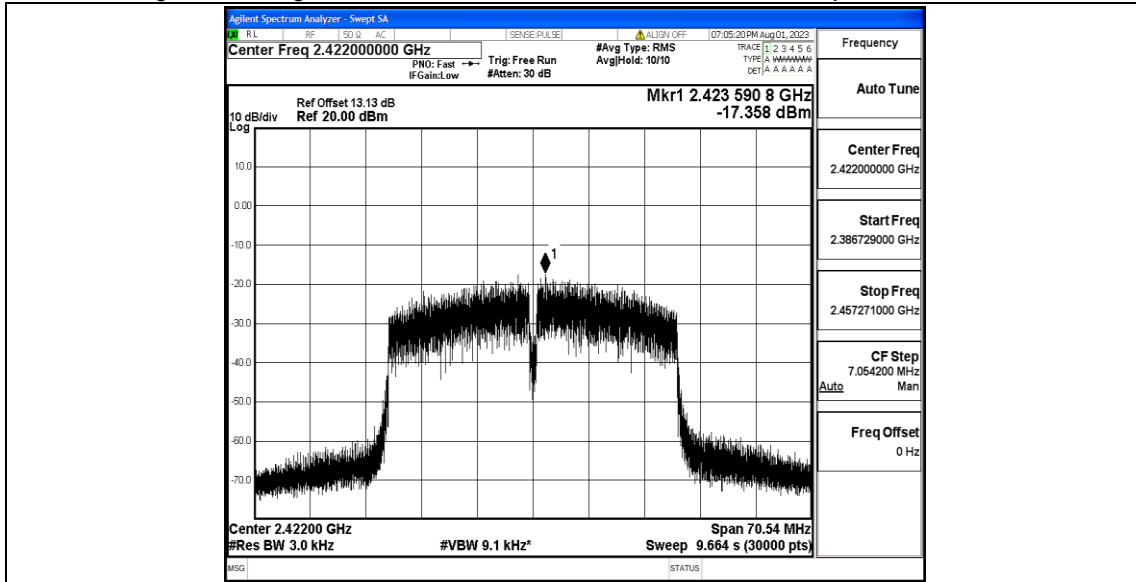
11N20SISO_Ant1_2437



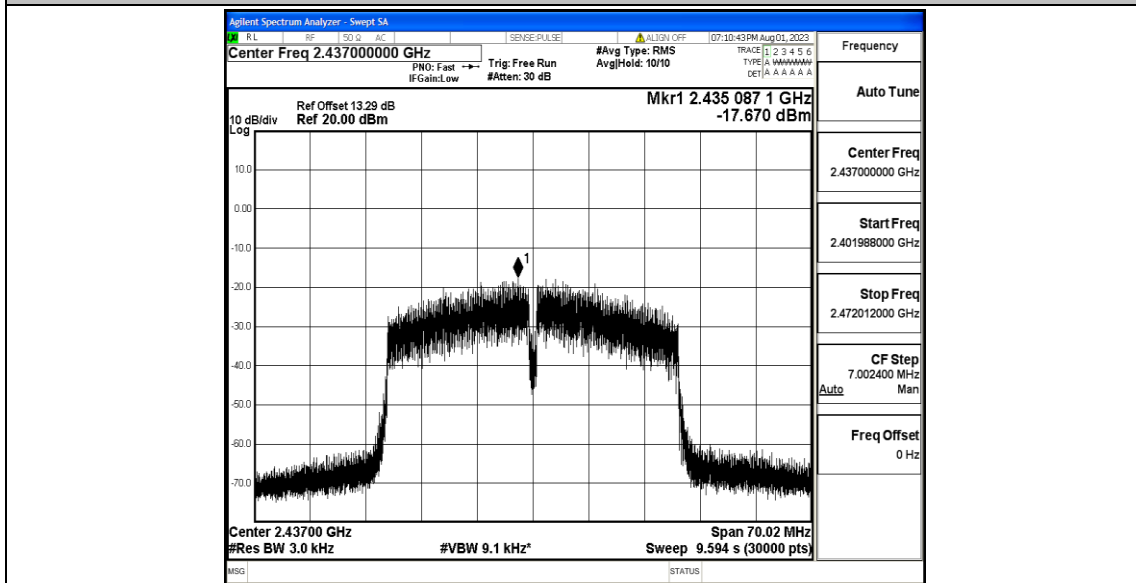
11N20SISO_Ant1_2462



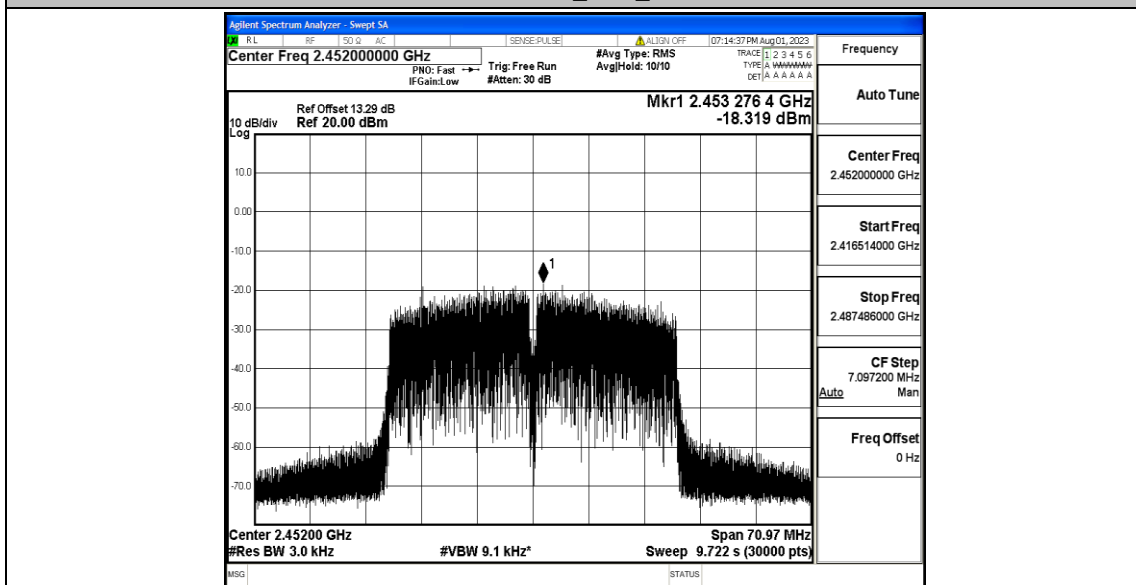
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



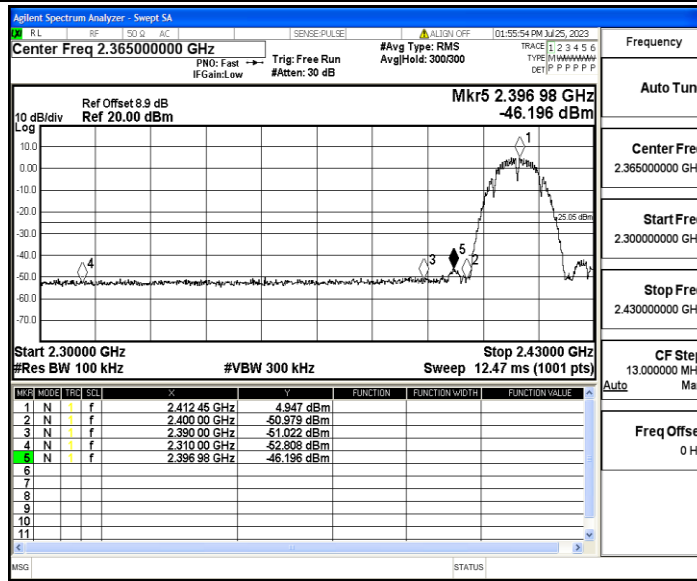
Appendix E: Band edge measurements

Test Result

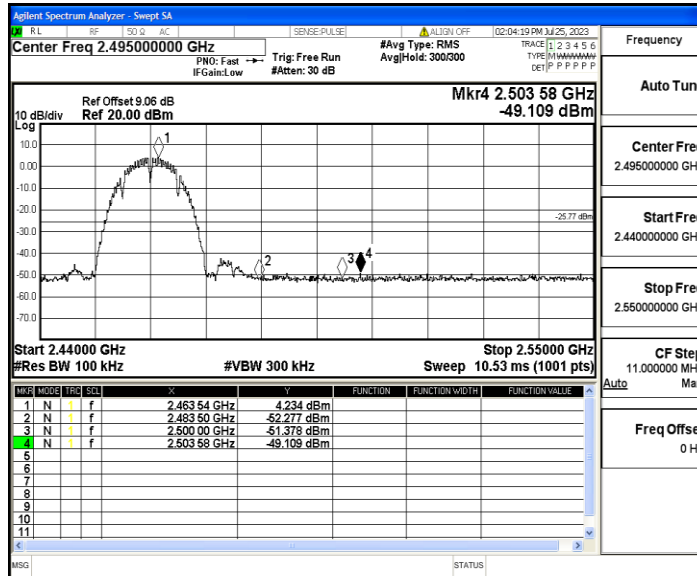
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.95	-46.2	≤-25.05	PASS
		High	2462	4.23	-49.11	≤-25.77	PASS
11G	Ant1	Low	2412	2.00	-39.08	≤-28	PASS
		High	2462	0.20	-49.02	≤-29.8	PASS
11N20SISO	Ant1	Low	2412	1.59	-37.27	≤-28.42	PASS
		High	2462	-0.29	-48.49	≤-30.29	PASS
11N40SISO	Ant1	Low	2422	0.28	-41.68	≤-29.72	PASS
		High	2452	-1.58	-44.96	≤-31.58	PASS

Test Graphs

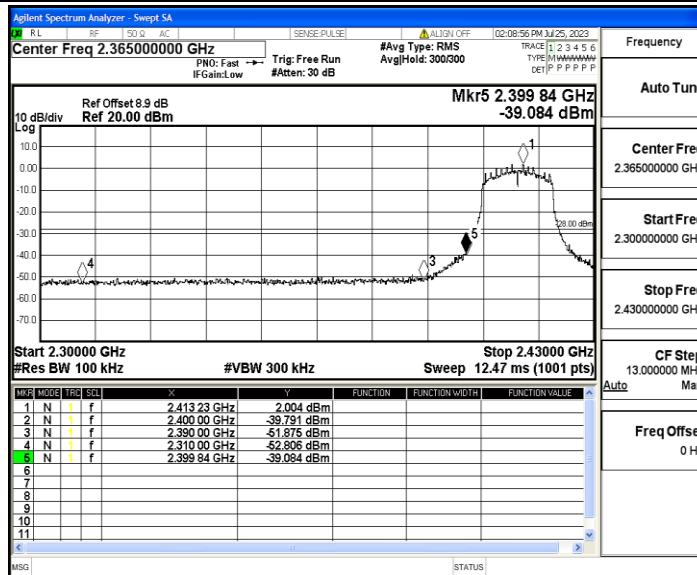
11B_Ant1_Low_2412



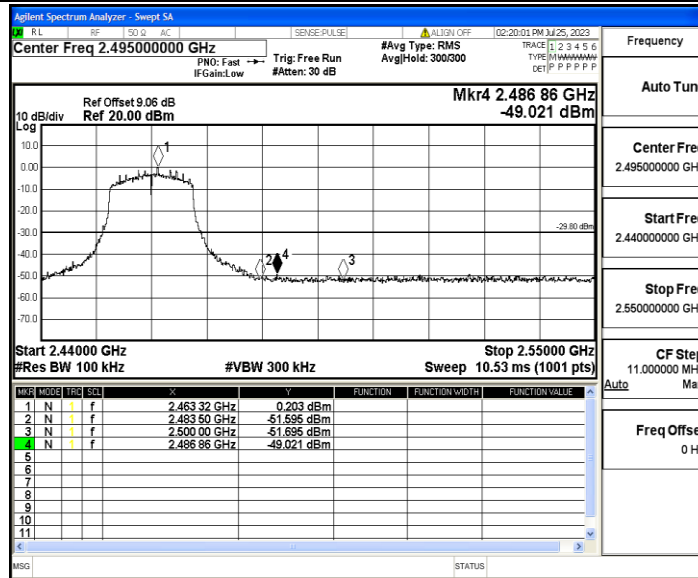
11B_Ant1_High_2462



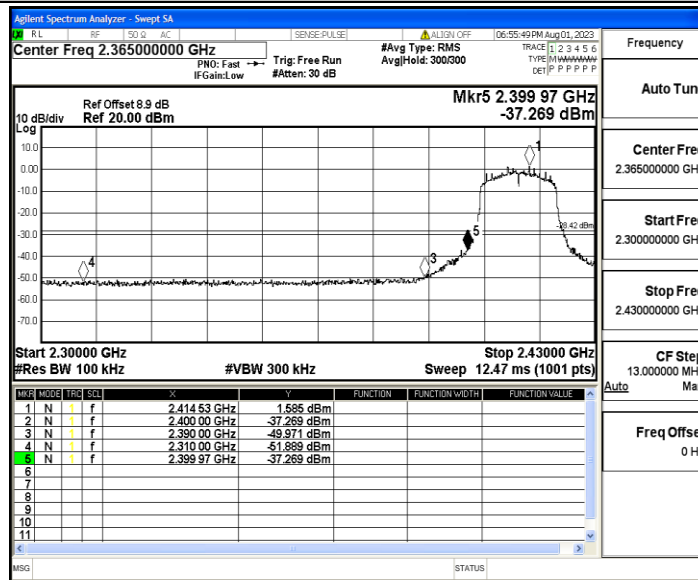
11G_Ant1_Low_2412



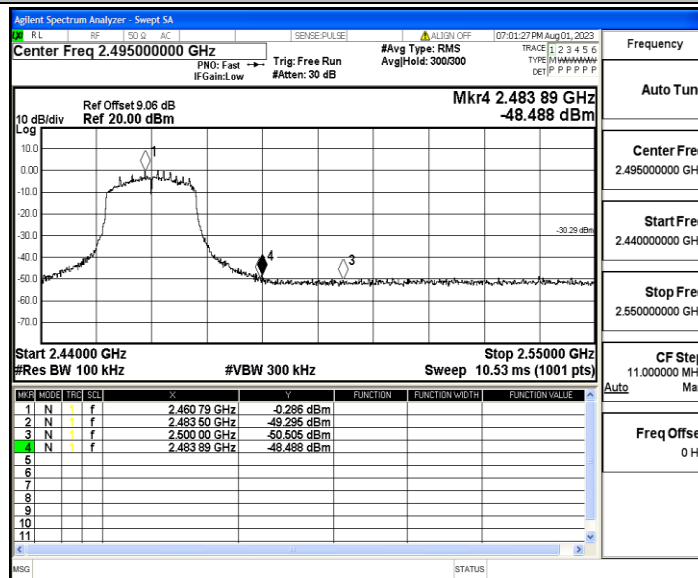
11G_Ant1_High_2462



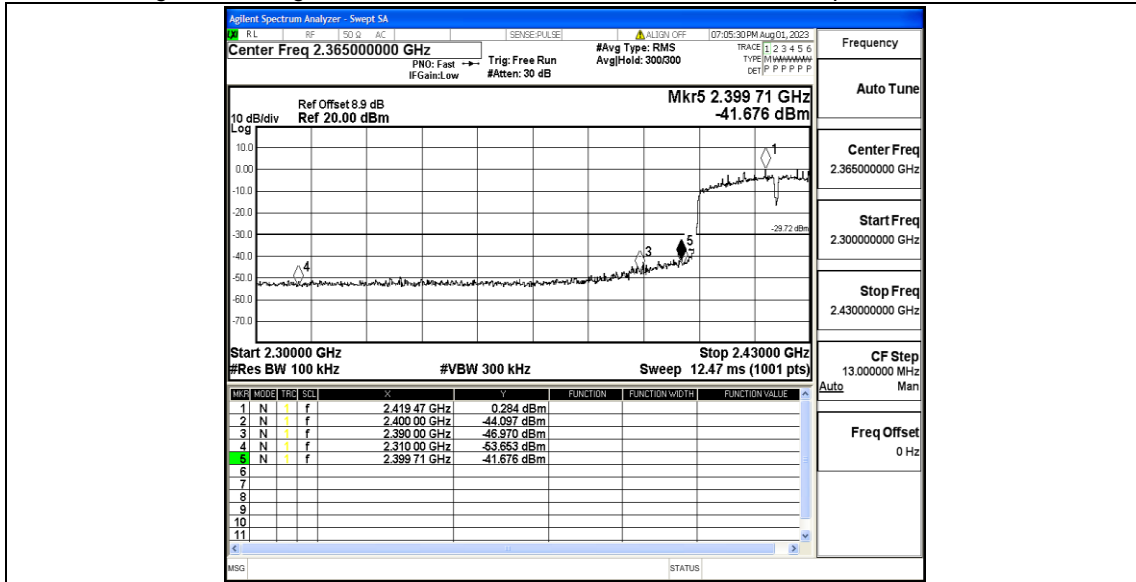
11N20SISO_Ant1_Low_2412



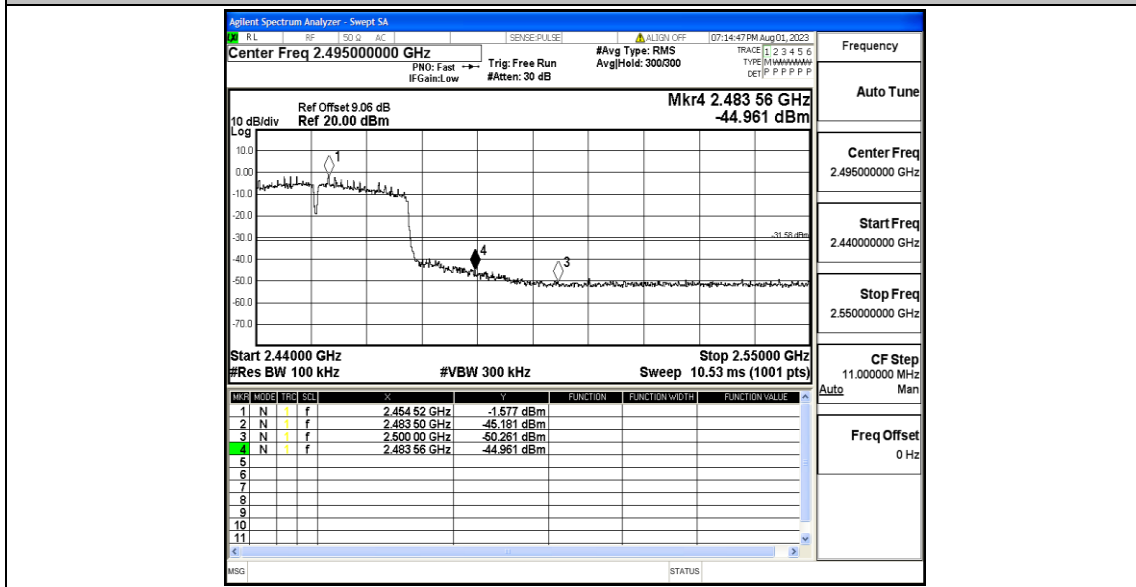
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



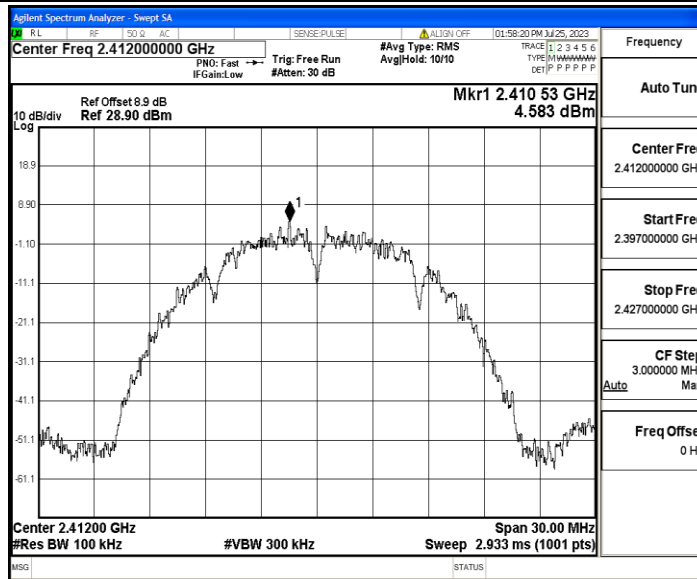
Appendix F: Conducted Spurious Emission

Test Result

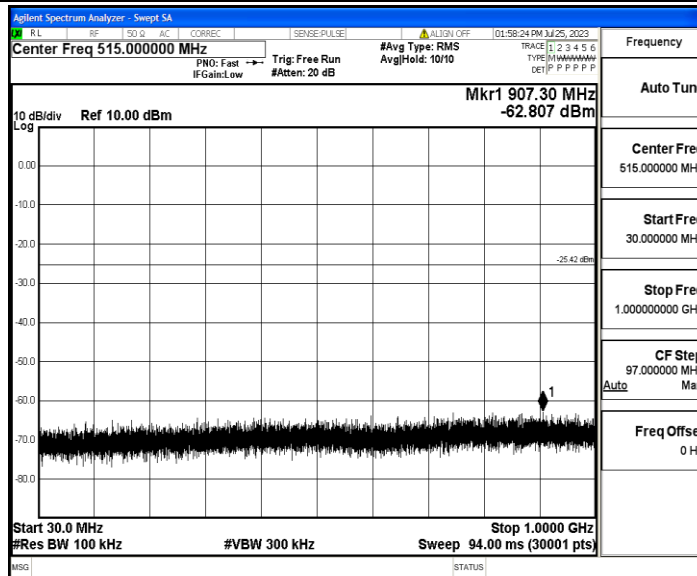
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.58	4.58	---	PASS
			30~1000	4.58	-62.81	≤-25.42	PASS
			1000~26500	4.58	-50.54	≤-25.42	PASS
		2437	Reference	5.98	5.98	---	PASS
			30~1000	5.98	-62.48	≤-24.02	PASS
			1000~26500	5.98	-49.92	≤-24.02	PASS
		2462	Reference	3.31	3.31	---	PASS
			30~1000	3.31	-63.3	≤-26.69	PASS
			1000~26500	3.31	-50.07	≤-26.69	PASS
11G	Ant1	2412	Reference	-1.49	-1.49	---	PASS
			30~1000	-1.49	-62.14	≤-31.49	PASS
			1000~26500	-1.49	-50.03	≤-31.49	PASS
		2437	Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-63.01	≤-31.55	PASS
			1000~26500	-1.55	-50.26	≤-31.55	PASS
		2462	Reference	-2.95	-2.95	---	PASS
			30~1000	-2.95	-62.72	≤-32.95	PASS
			1000~26500	-2.95	-49.84	≤-32.95	PASS
11N20SISO	Ant1	2412	Reference	-0.32	-0.32	---	PASS
			30~1000	-0.32	-62.45	≤-30.32	PASS
			1000~26500	-0.32	-48.73	≤-30.32	PASS
		2437	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-62.57	≤-31.07	PASS
			1000~26500	-1.07	-49.4	≤-31.07	PASS
		2462	Reference	-3.57	-3.57	---	PASS
			30~1000	-3.57	-62.19	≤-33.57	PASS
			1000~26500	-3.57	-49.76	≤-33.57	PASS
11N40SISO	Ant1	2422	Reference	-3.82	-3.82	---	PASS
			30~1000	-3.82	-62.55	≤-33.82	PASS
			1000~26500	-3.82	-50.17	≤-33.82	PASS
		2437	Reference	-3.37	-3.37	---	PASS
			30~1000	-3.37	-62.44	≤-33.37	PASS
			1000~26500	-3.37	-49.89	≤-33.37	PASS
		2452	Reference	-5.34	-5.34	---	PASS
			30~1000	-5.34	-62.65	≤-35.34	PASS
			1000~26500	-5.34	-49.63	≤-35.34	PASS

Test Graphs

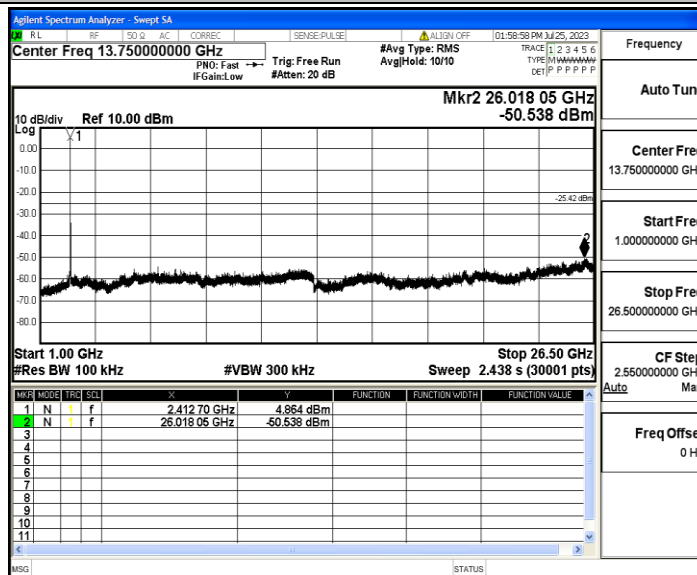
11B_Ant1_2412_0~Reference



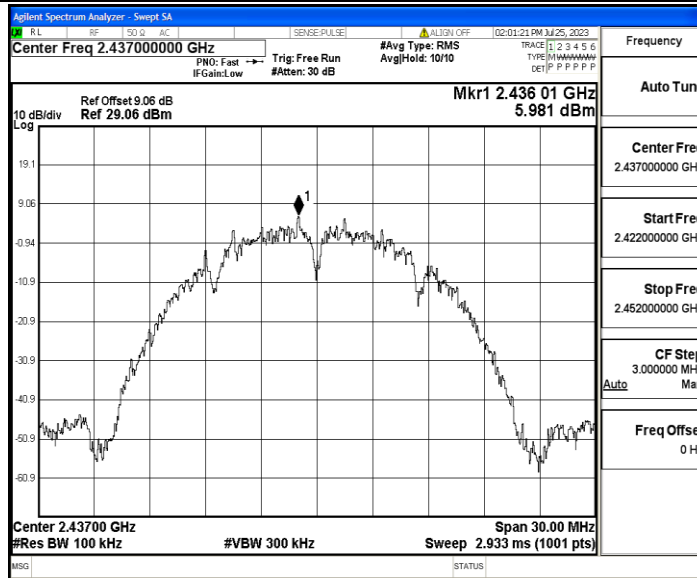
11B_Ant1_2412_30~1000



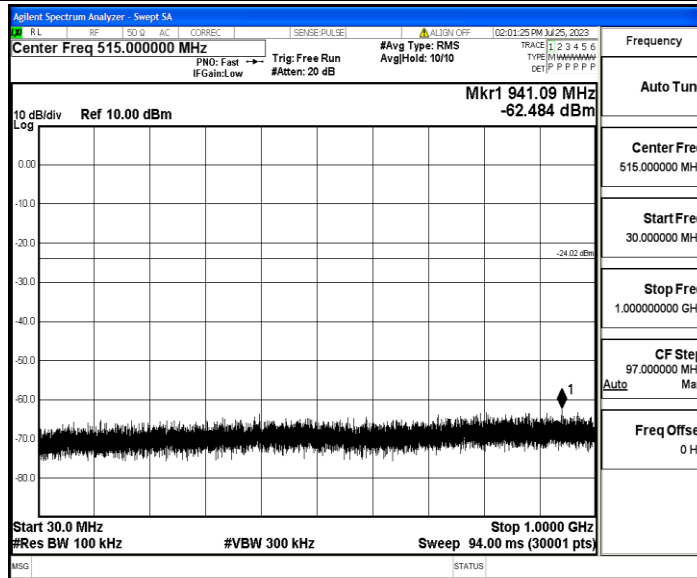
11B_Ant1_2412_1000~26500



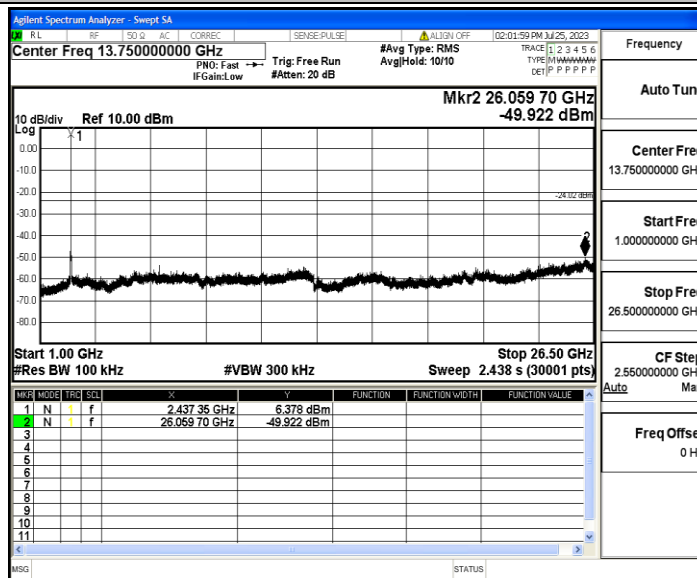
11B_Ant1_2437_0~Reference



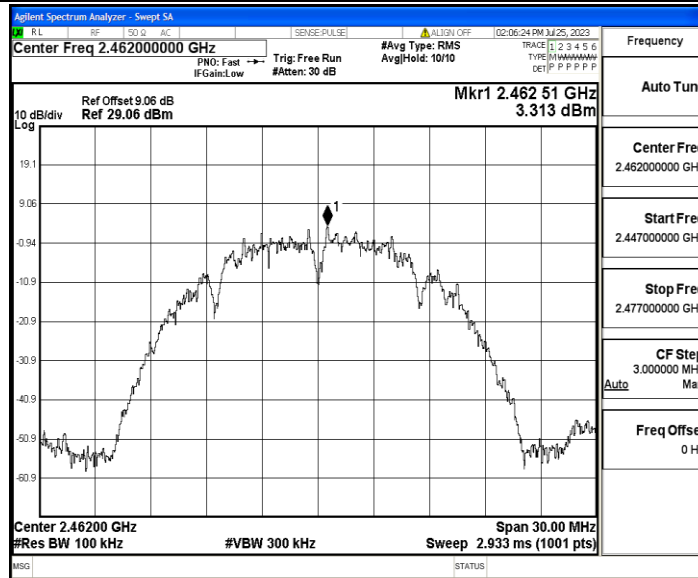
11B_Ant1_2437_30~1000



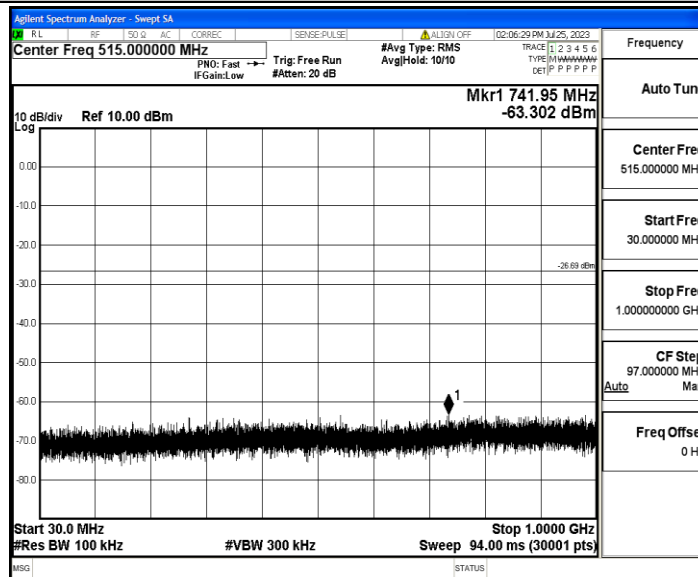
11B_Ant1_2437_1000~26500



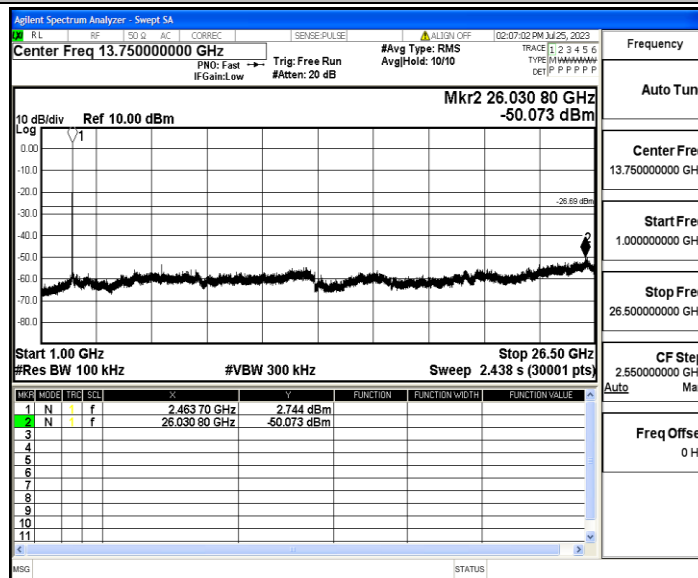
11B_Ant1_2462_0~Reference



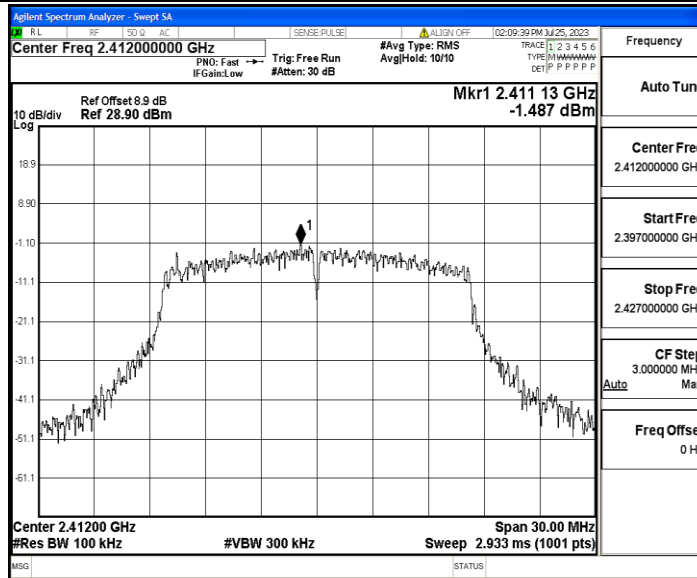
11B_Ant1_2462_30~1000



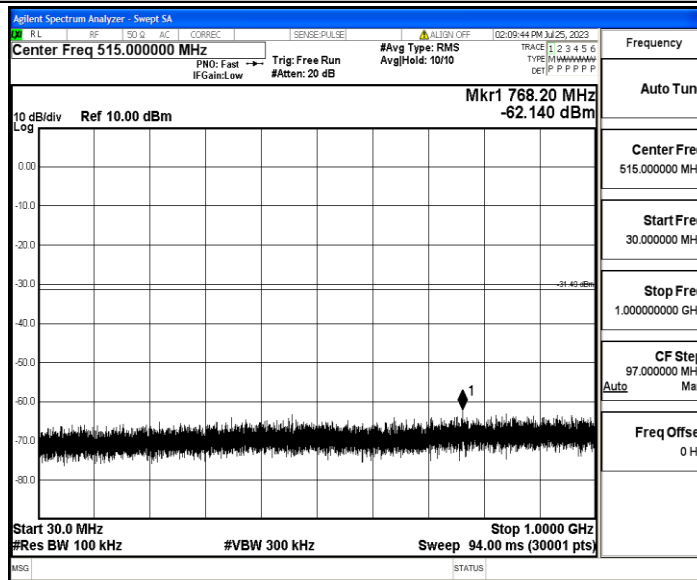
11B_Ant1_2462_1000~26500



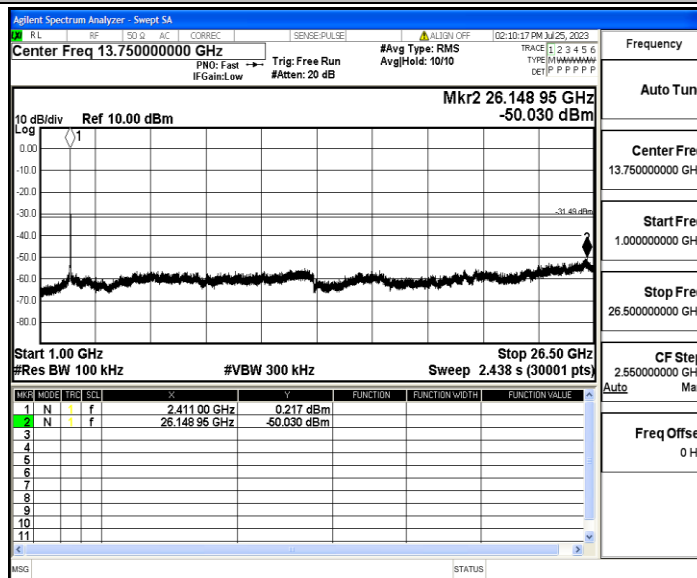
11G_Ant1_2412_0~Reference



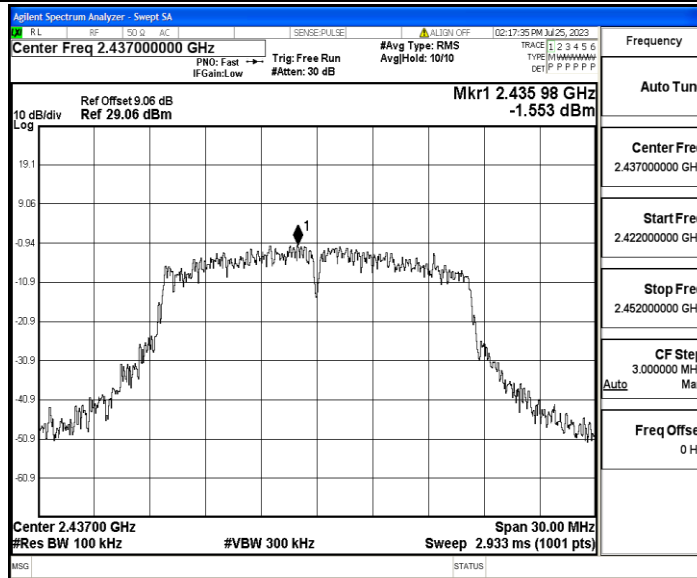
11G_Ant1_2412_30~1000



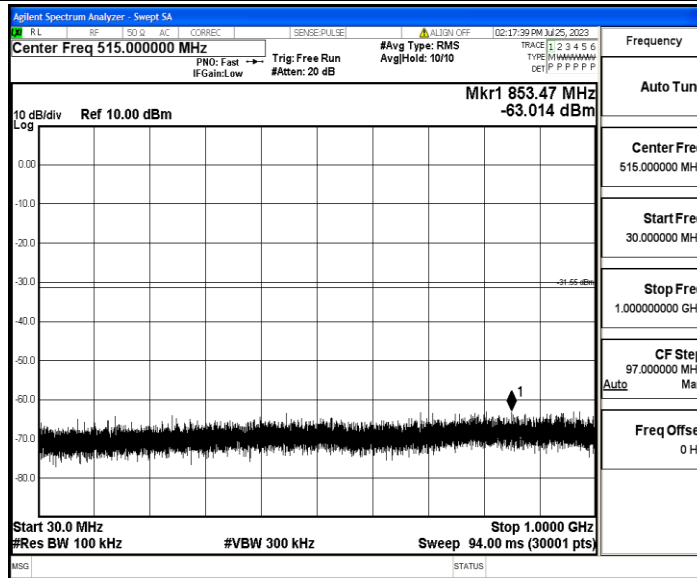
11G_Ant1_2412_1000~26500



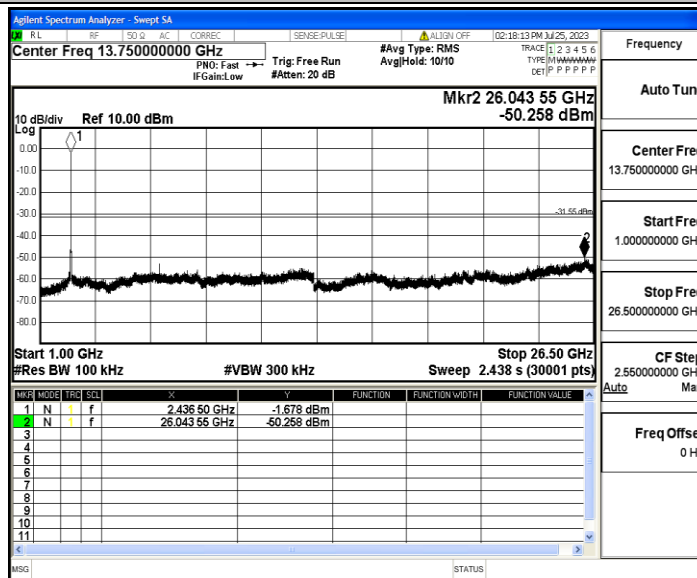
11G_Ant1_2437_0~Reference



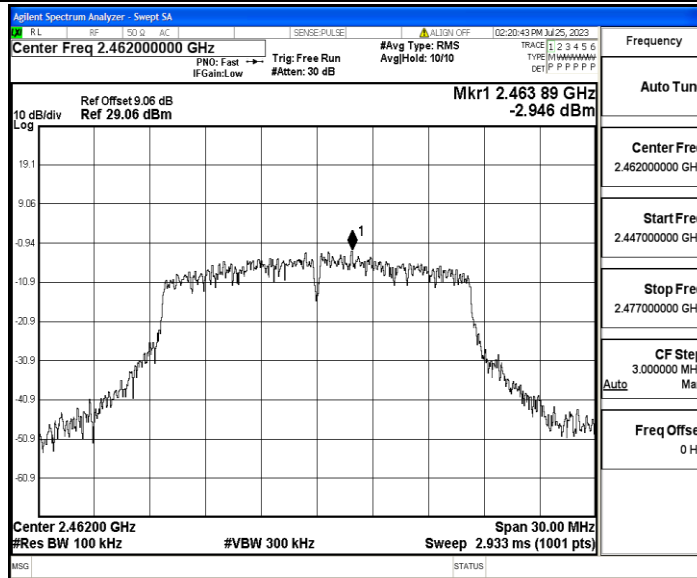
11G_Ant1_2437_30~1000



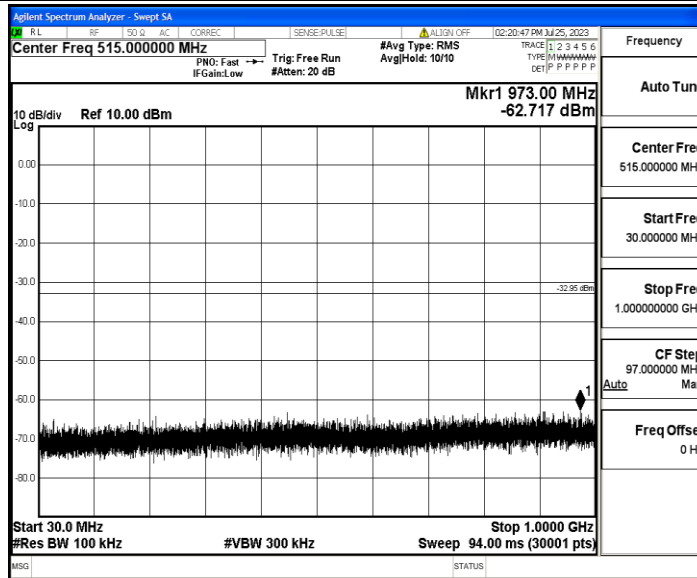
11G_Ant1_2437_1000~26500



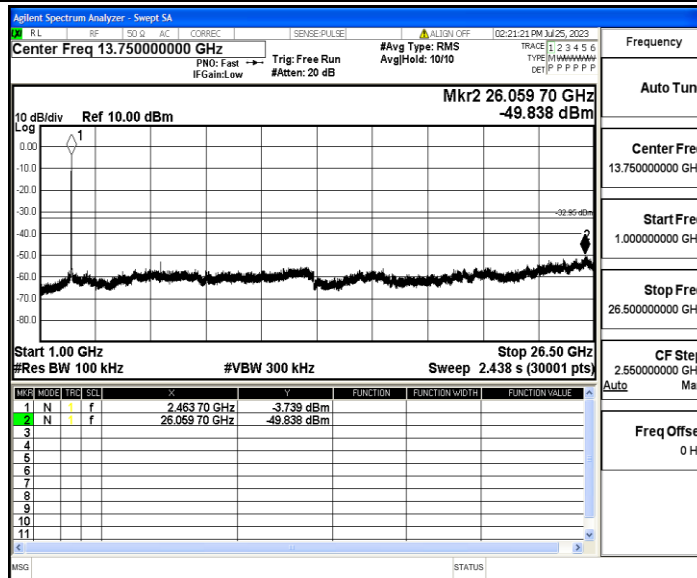
11G_Ant1_2462_0~Reference



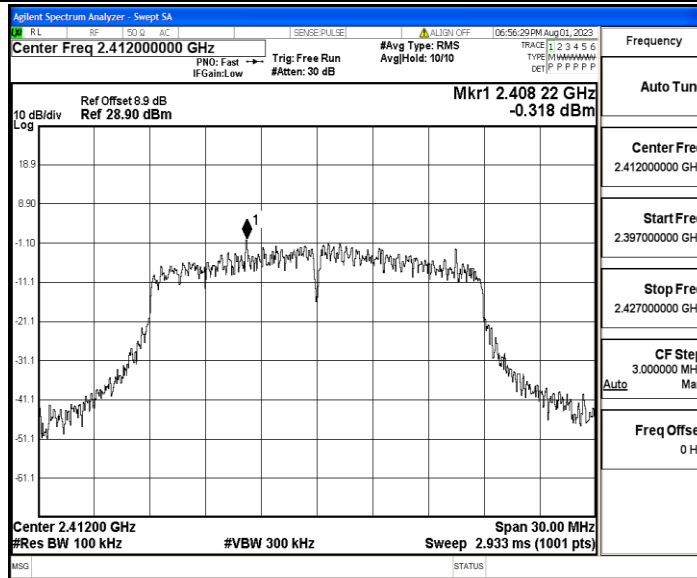
11G_Ant1_2462_30~1000



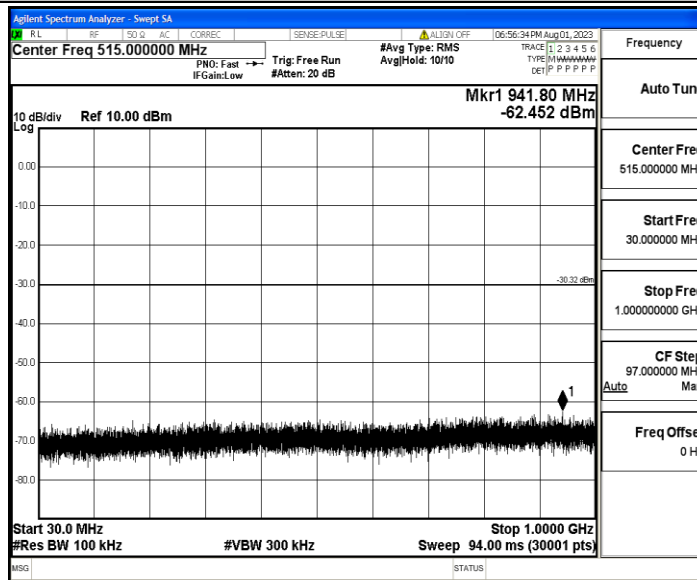
11G_Ant1_2462_1000~26500



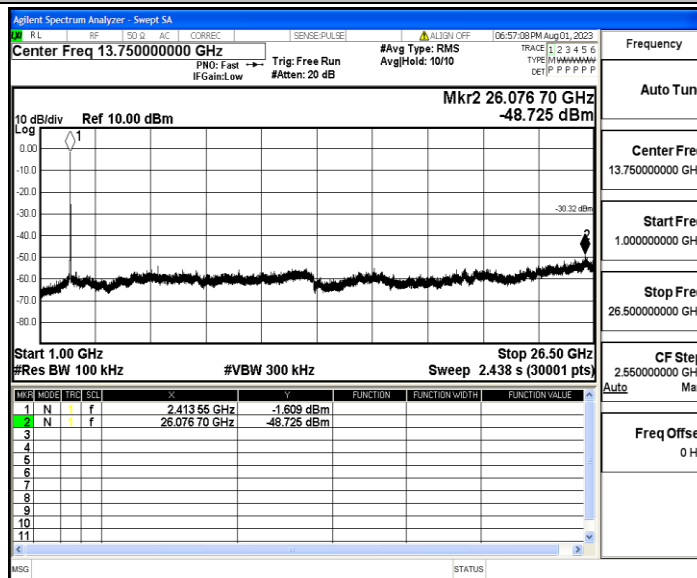
11N20SISO_Ant1_2412_0~Reference



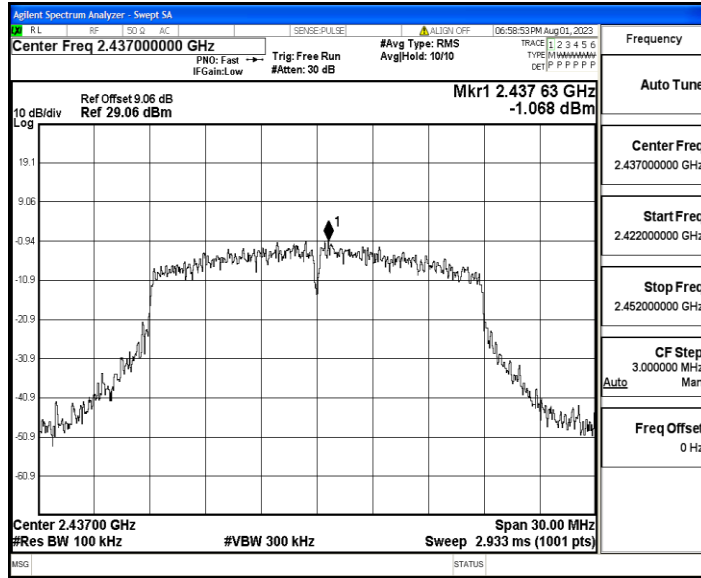
11N20SISO_Ant1_2412_30~1000



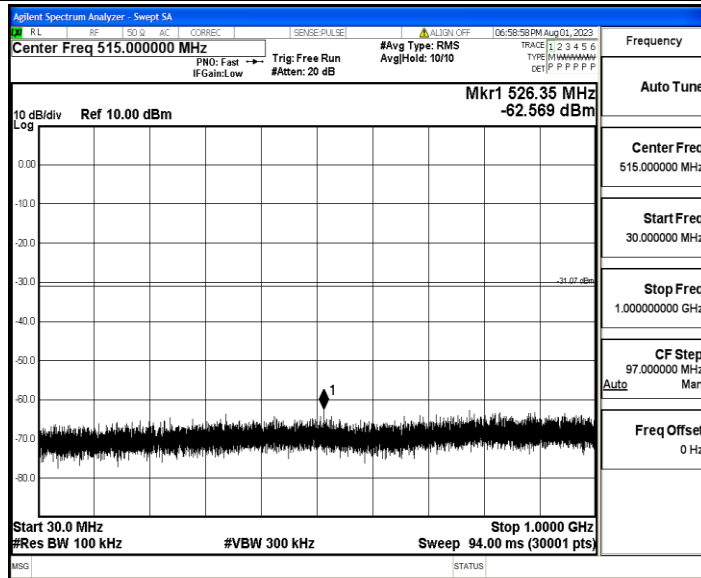
11N20SISO_Ant1_2412_1000~26500



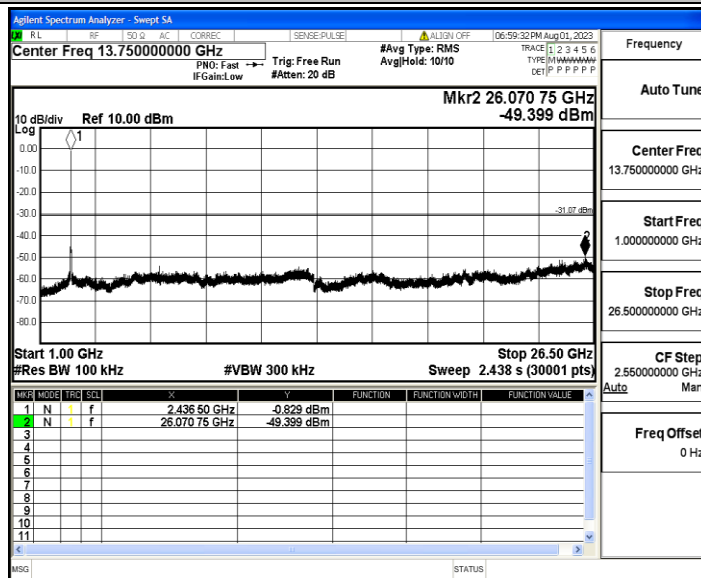
11N20SISO_Ant1_2437_0~Reference



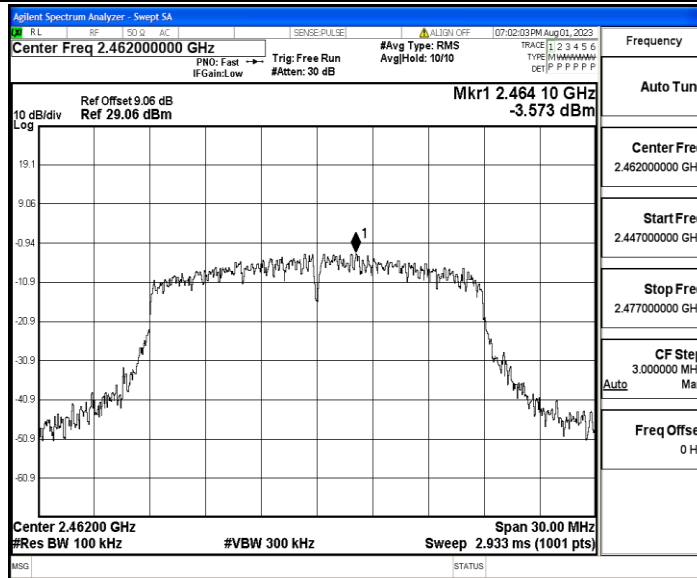
11N20SISO_Ant1_2437_30~1000



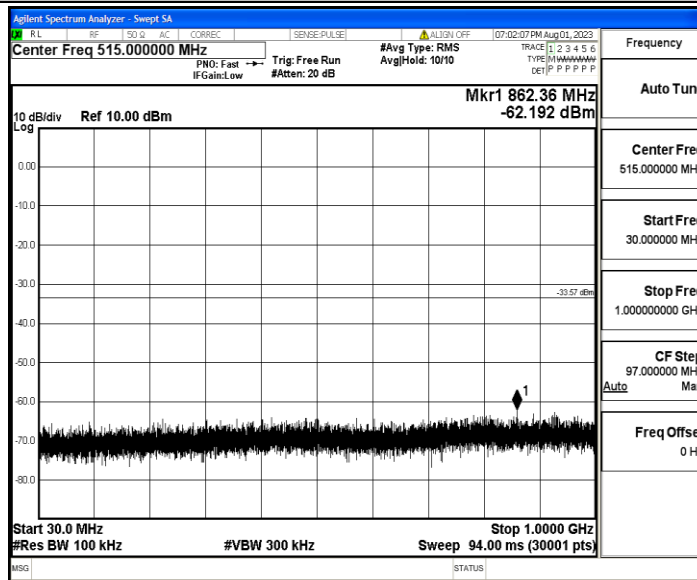
11N20SISO_Ant1_2437_1000~26500



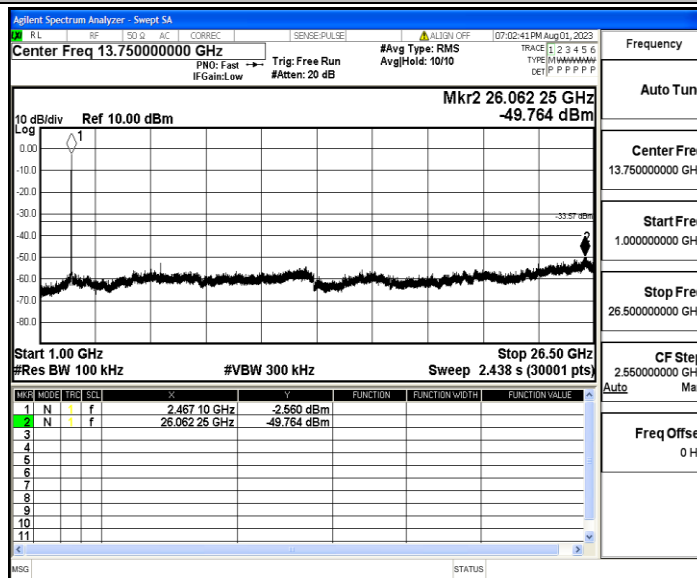
11N20SISO_Ant1_2462_0~Reference



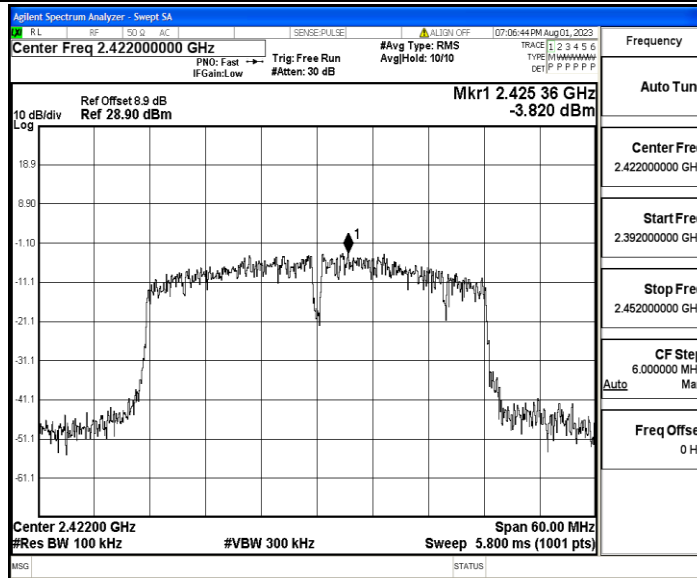
11N20SISO_Ant1_2462_30~1000



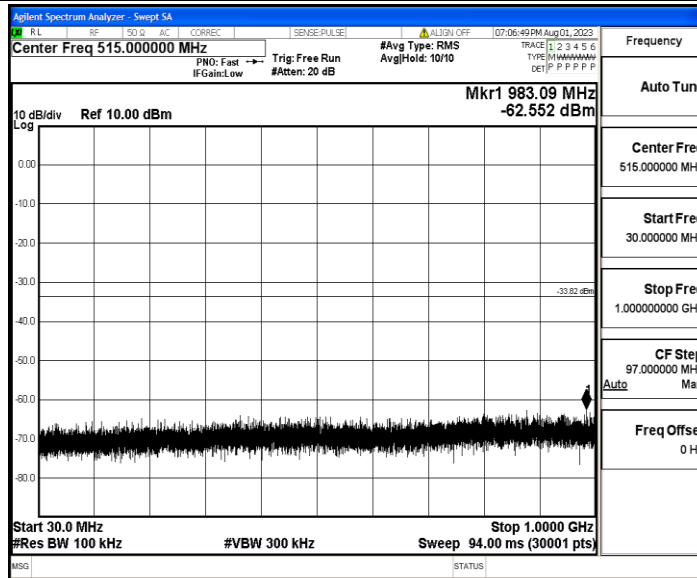
11N20SISO_Ant1_2462_1000~26500



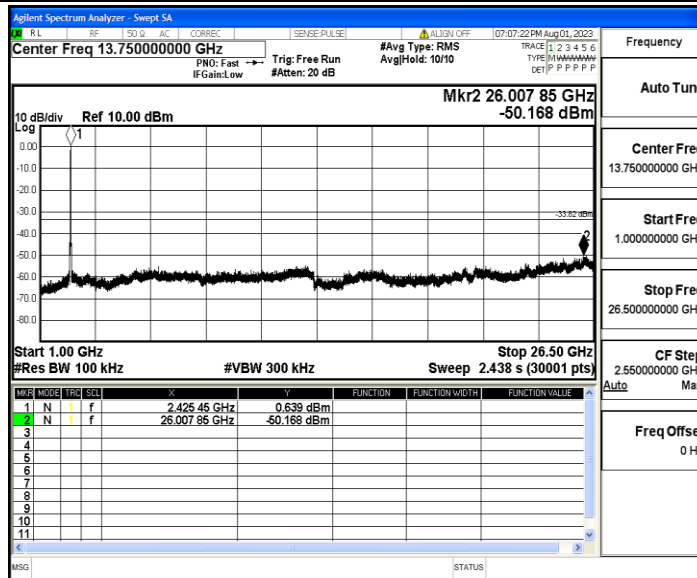
11N40SISO_Ant1_2422_0~Reference



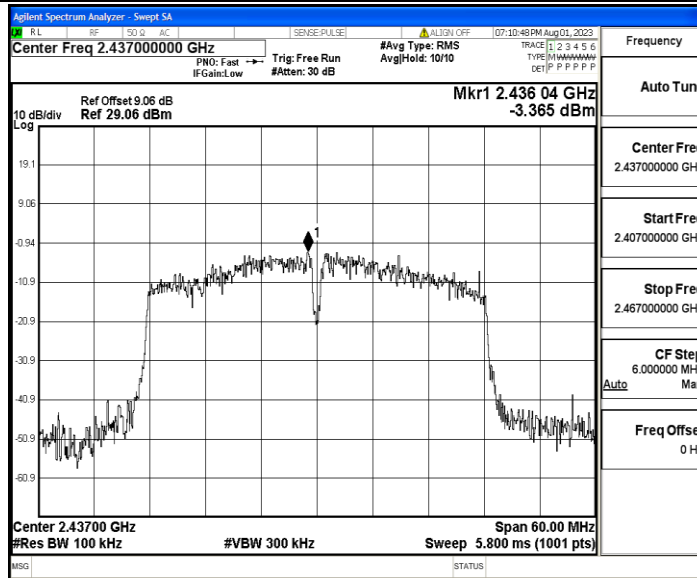
11N40SISO_Ant1_2422_30~1000



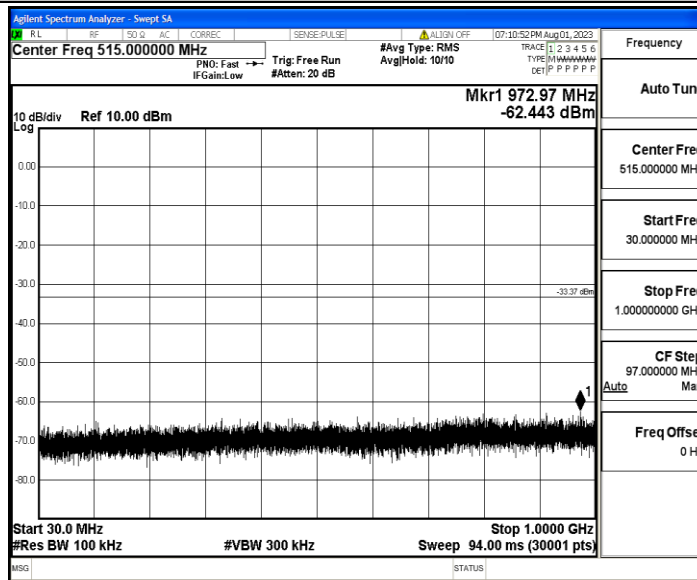
11N40SISO_Ant1_2422_1000~26500



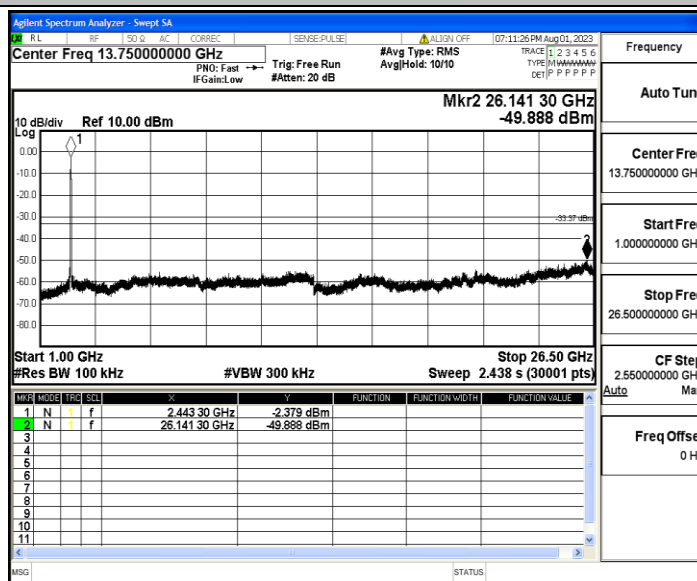
11N40SISO_Ant1_2437_0~Reference



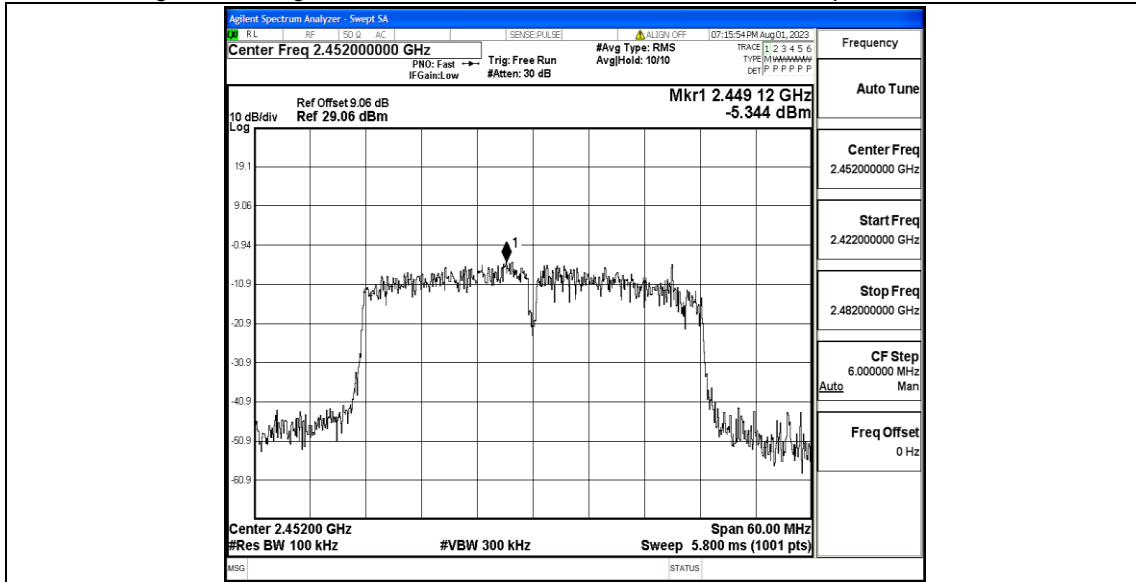
11N40SISO_Ant1_2437_30~1000



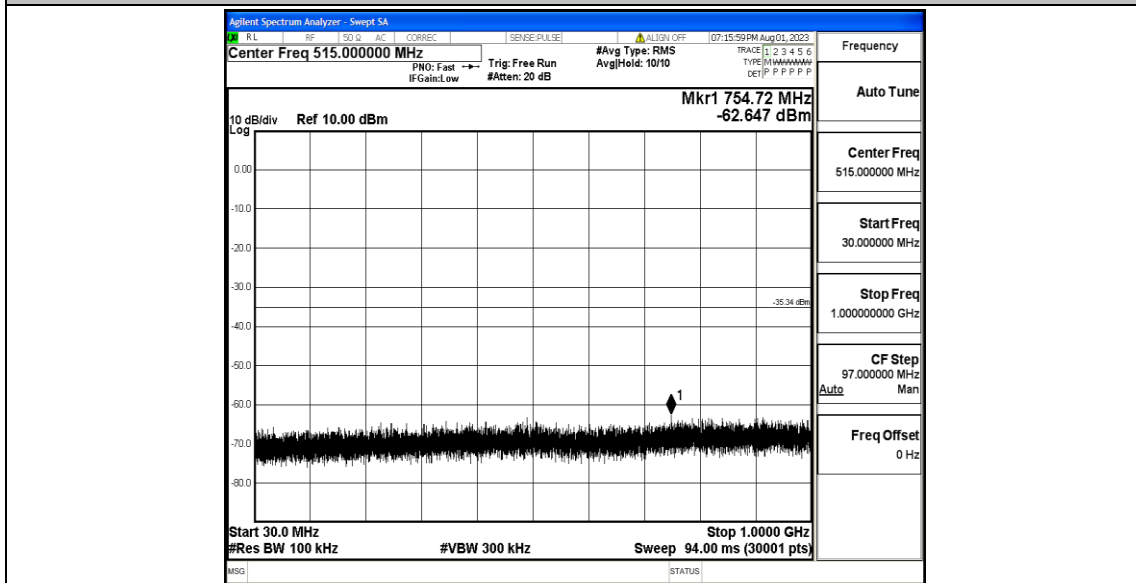
11N40SISO_Ant1_2437_1000~26500



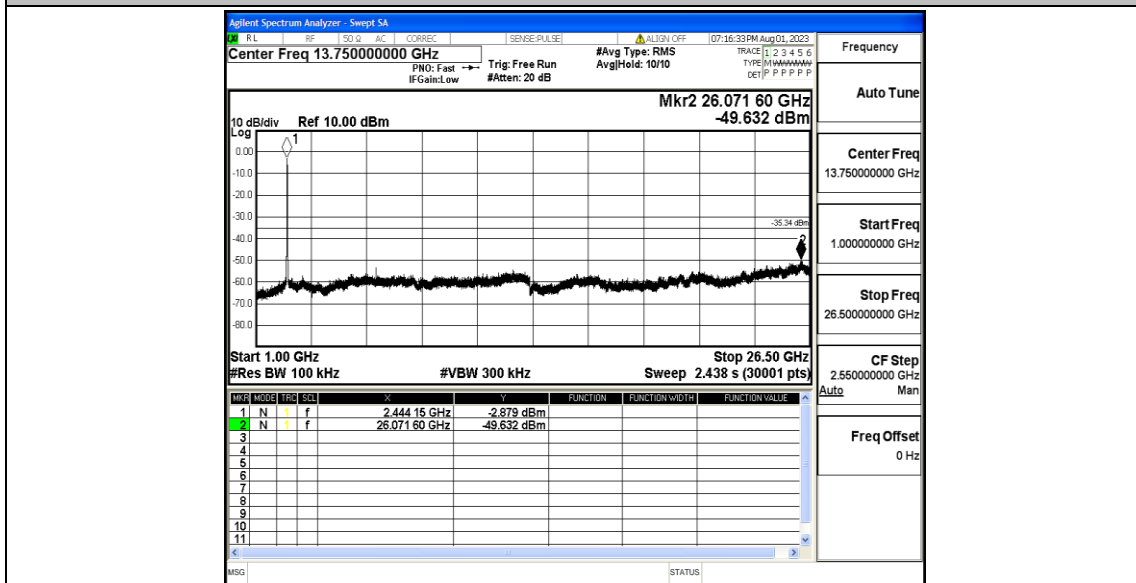
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500

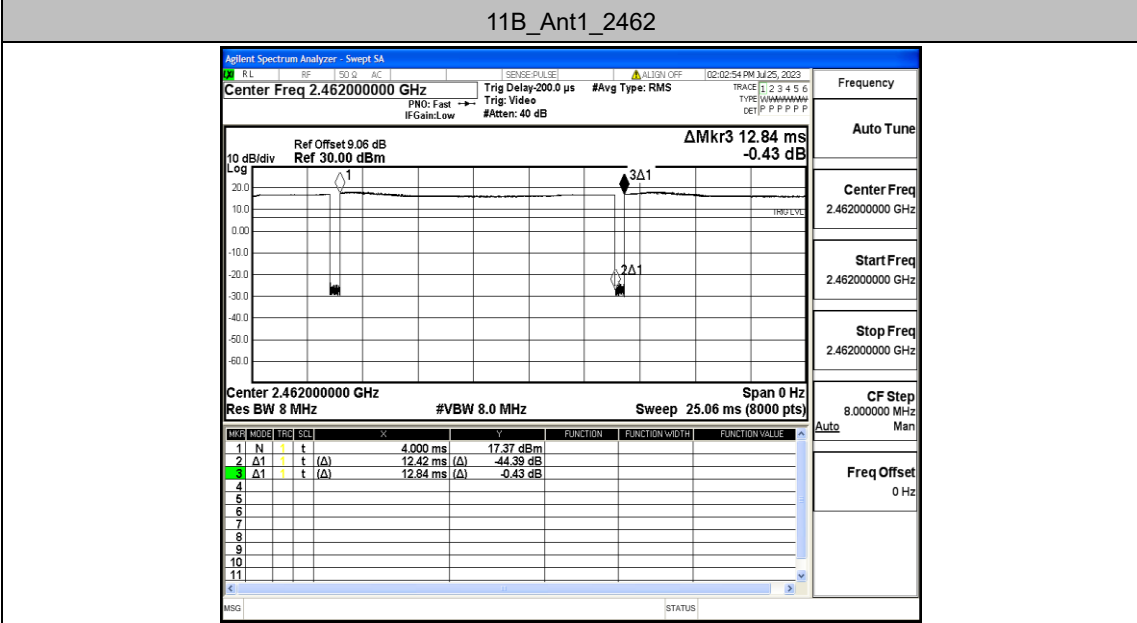
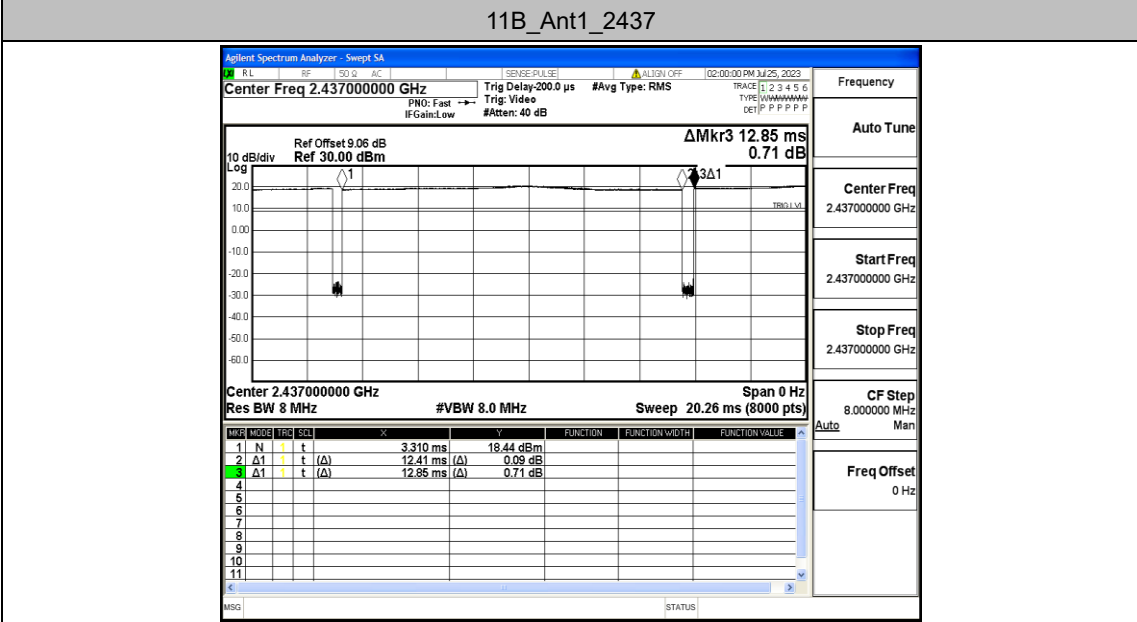
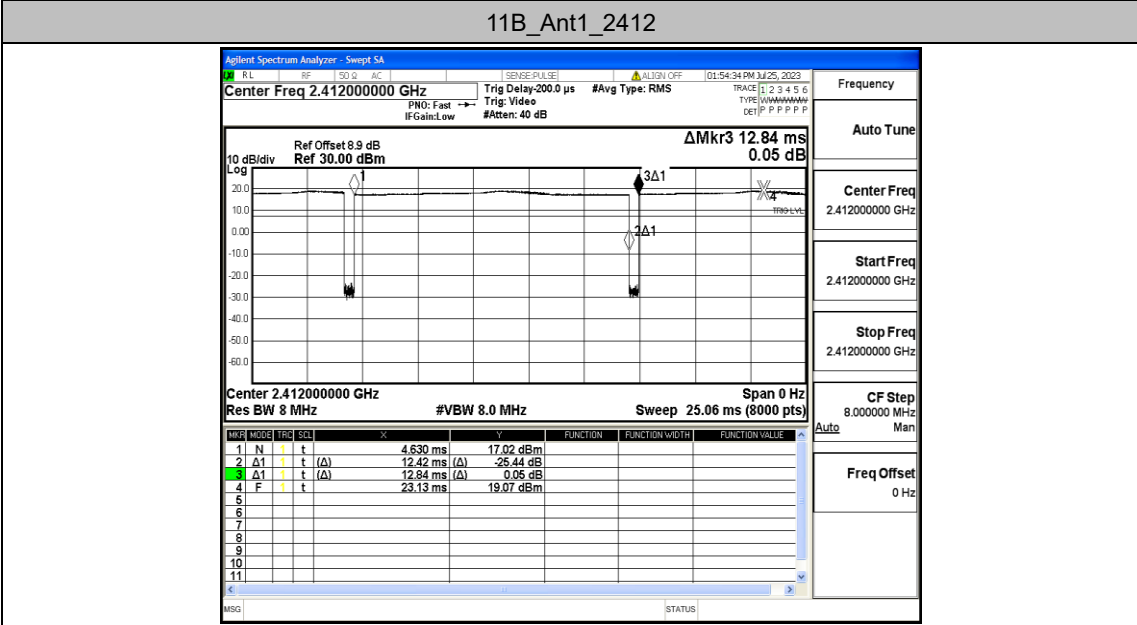


Appendix G: Duty Cycle

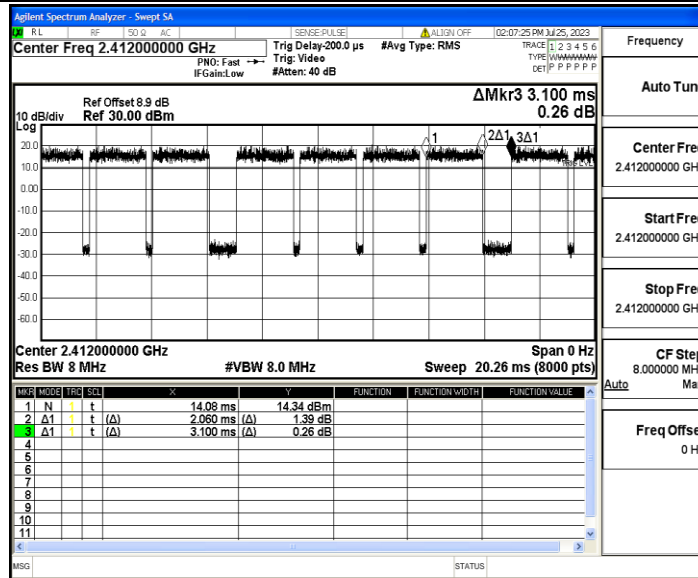
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
11B	Ant1	2412	12.42	12.84	96.73	0.08
		2437	12.41	12.85	96.58	0.08
		2462	12.42	12.84	96.73	0.08
11G	Ant1	2412	2.06	3.10	66.45	0.49
		2437	2.06	3.11	66.24	0.49
		2462	2.06	3.10	66.45	0.49
11N20SISO	Ant1	2412	1.92	3.49	55.01	0.52
		2437	1.92	3.48	55.17	0.52
		2462	1.92	3.46	55.49	0.52
11N40SISO	Ant1	2422	3.78	10.01	37.76	0.26
		2437	3.77	9.98	37.78	0.27
		2452	3.77	9.98	37.78	0.27

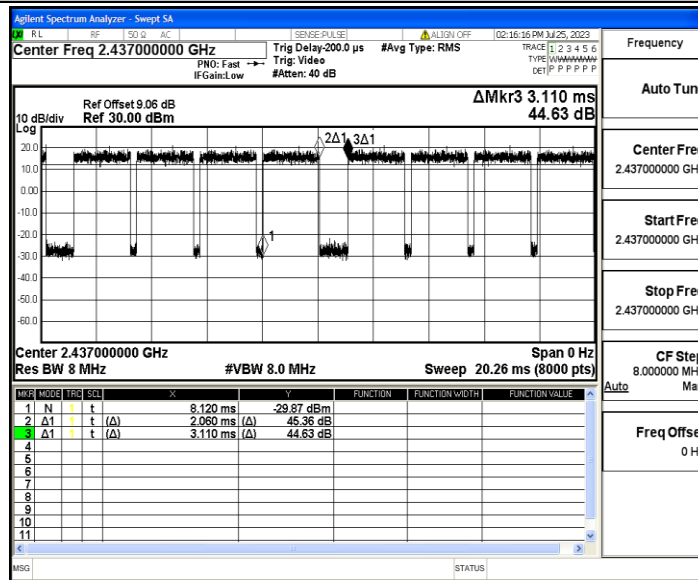
Test Graphs



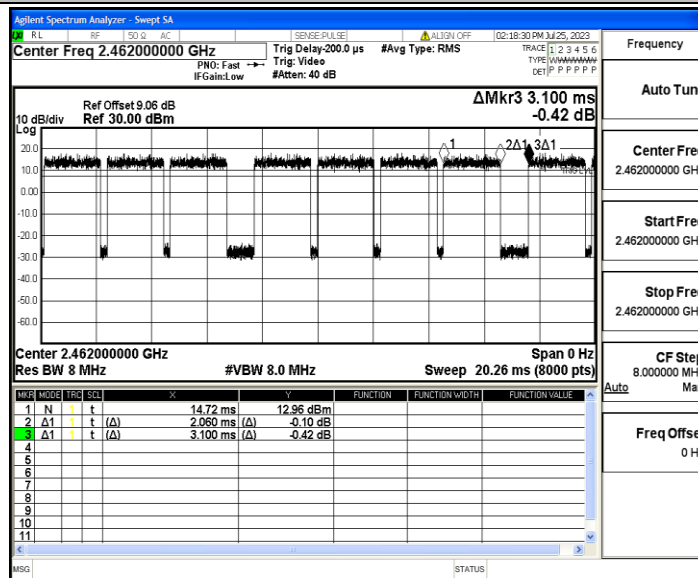
11G_Ant1_2412



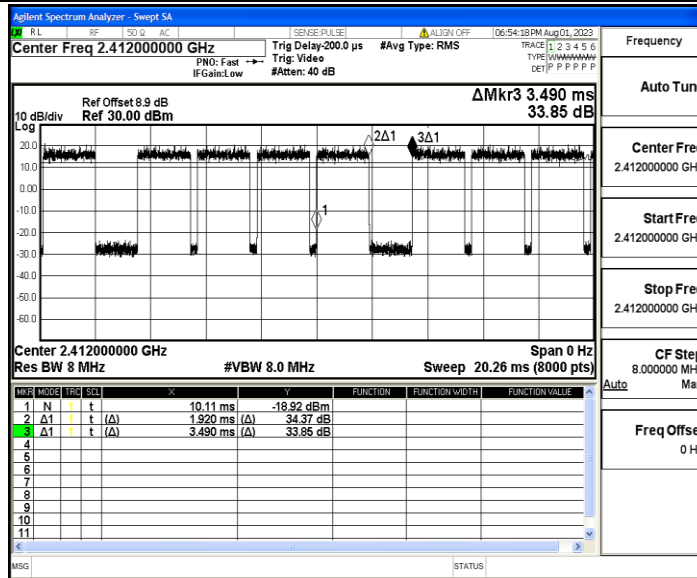
11G_Ant1_2437



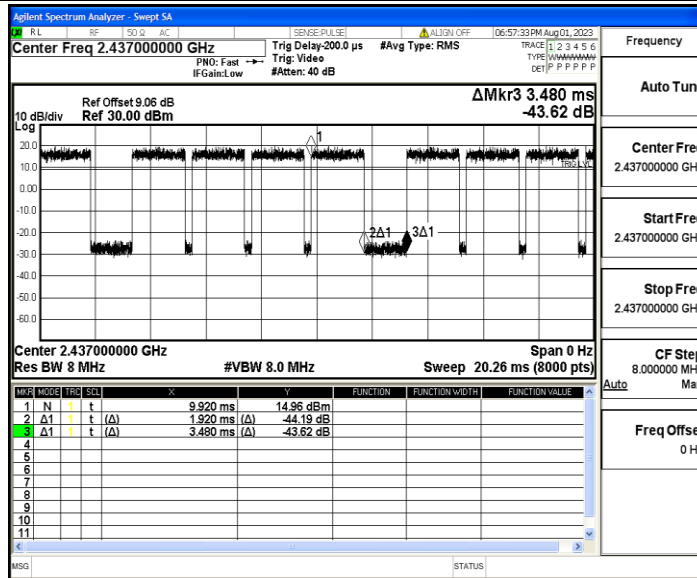
11G_Ant1_2462



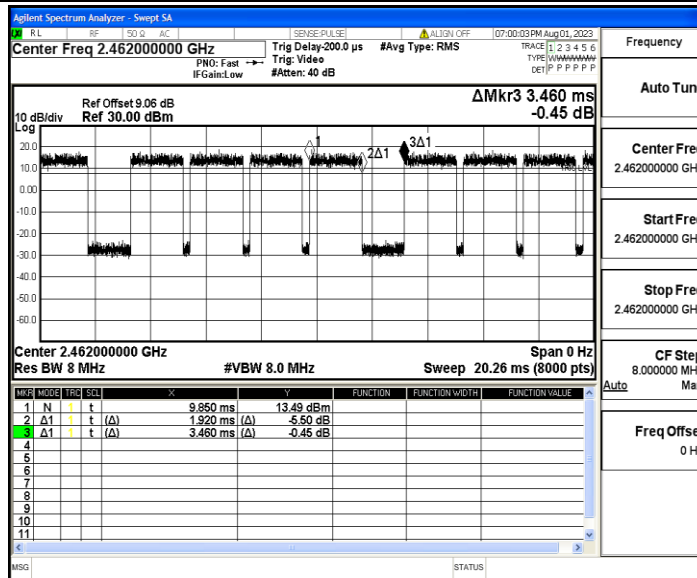
11N20SISO_Ant1_2412



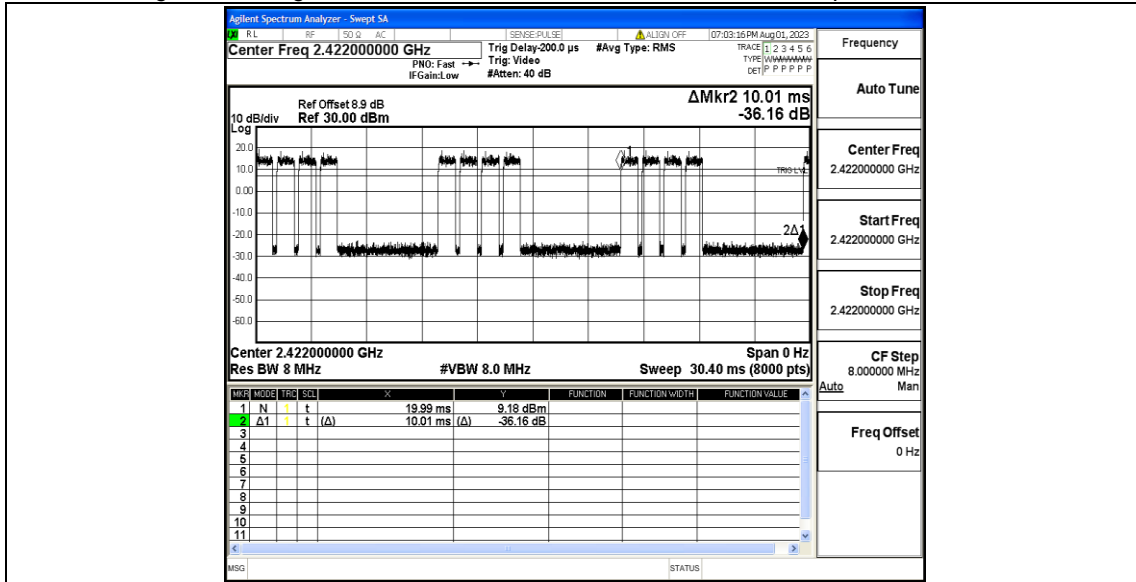
11N20SISO_Ant1_2437



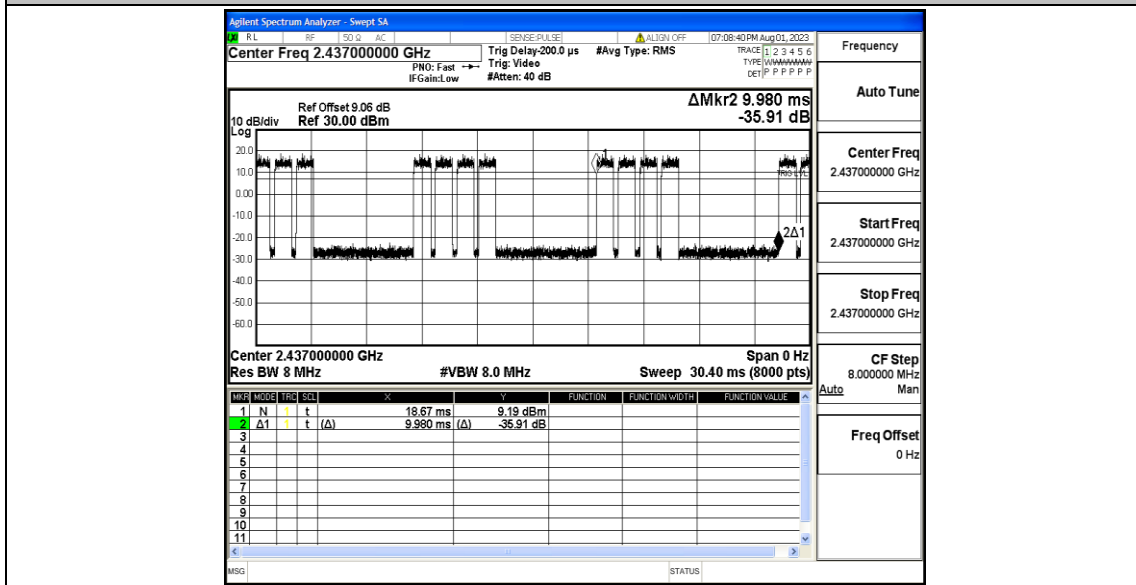
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

