

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BLJ7-R3024

Company : Zhuhai Chaohai Technology Co., Ltd

EUT : Selfie Screen Mirroring Adapter

Model Number : R3024

Report No. : CTA26071700102

Reviewed By : Eric Wang

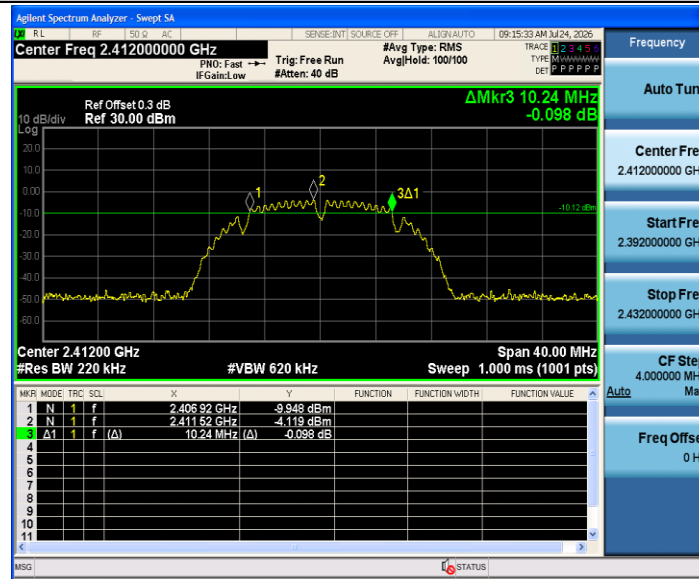
Appendix A: DTS Bandwidth

Test Result

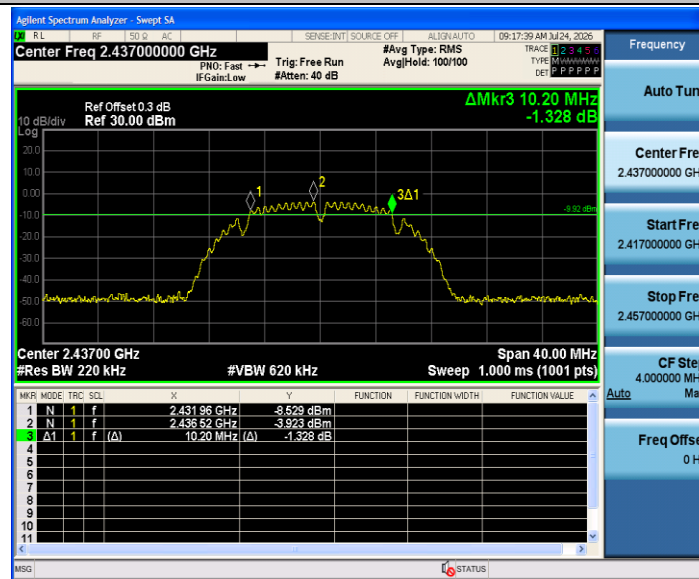
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.200	2431.960	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.960	2404.040	2420.000	0.5	PASS
		2437	15.440	2429.360	2444.800	0.5	PASS
		2462	15.760	2454.000	2469.760	0.5	PASS
11N20SISO	Ant1	2412	15.880	2403.960	2419.840	0.5	PASS
		2437	15.920	2429.480	2445.400	0.5	PASS
		2462	16.920	2453.480	2470.400	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.880	2439.920	0.5	PASS
		2437	35.600	2419.480	2455.080	0.5	PASS
		2452	35.440	2434.720	2470.160	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437

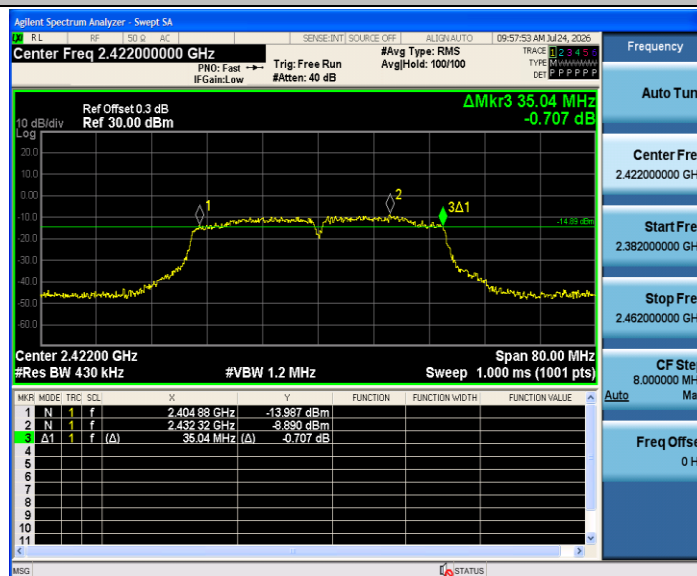




11N20SISO_Ant1_2462



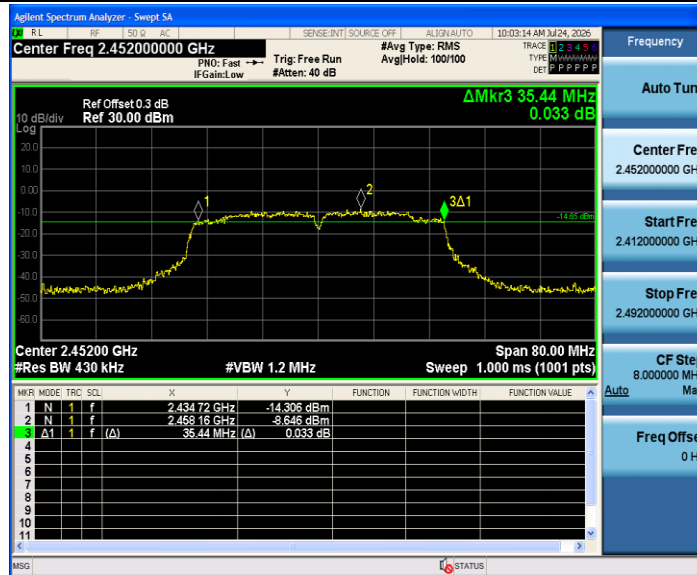
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



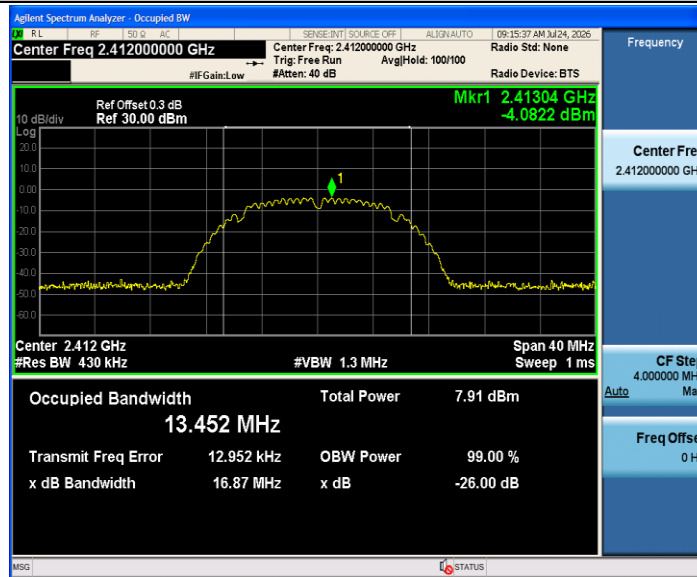
Appendix B: Occupied Channel Bandwidth

Test Result

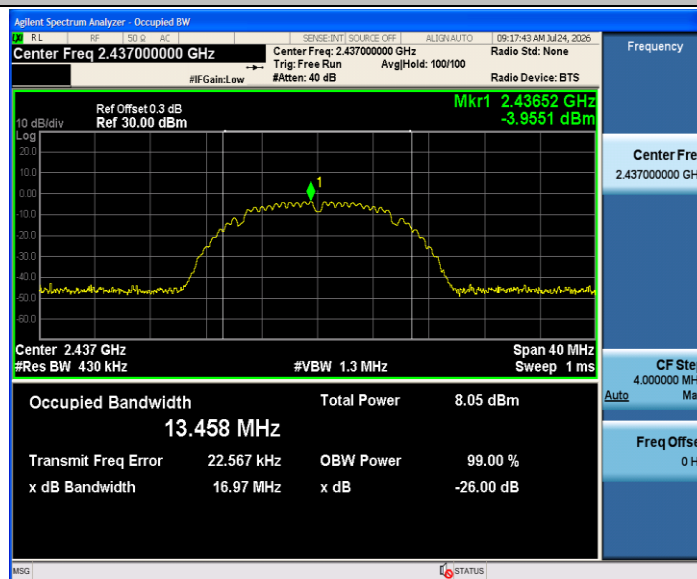
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.452	2405.2870	2418.7390	---	---
		2437	13.458	2430.2936	2443.7516	---	---
		2462	13.451	2455.3031	2468.7541	---	---
11G	Ant1	2412	16.868	2403.5879	2420.4559	---	---
		2437	16.870	2428.5690	2445.4390	---	---
		2462	16.931	2453.5928	2470.5238	---	---
11N20SISO	Ant1	2412	17.890	2403.0518	2420.9418	---	---
		2437	17.875	2428.1016	2445.9766	---	---
		2462	17.882	2453.0865	2470.9685	---	---
11N40SISO	Ant1	2422	36.128	2404.1096	2440.2376	---	---
		2437	36.060	2419.1346	2455.1946	---	---
		2452	36.145	2434.0502	2470.1952	---	---

Test Graphs

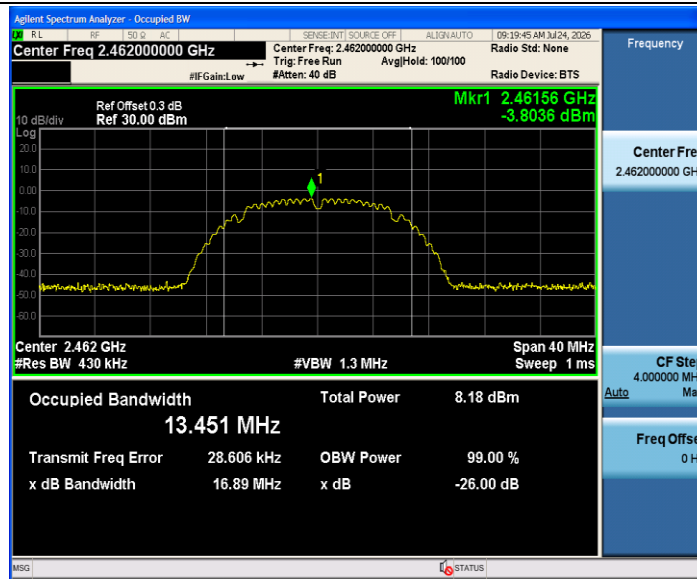
11B_Ant1_2412



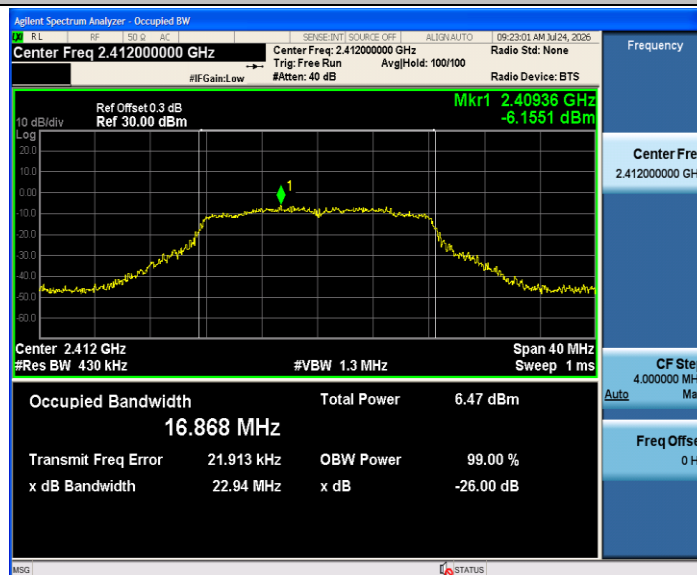
11B_Ant1_2437



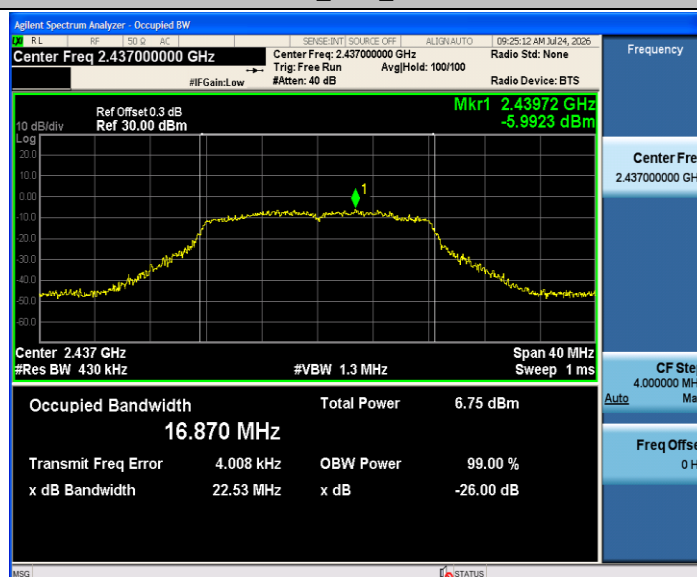
11B_Ant1_2462



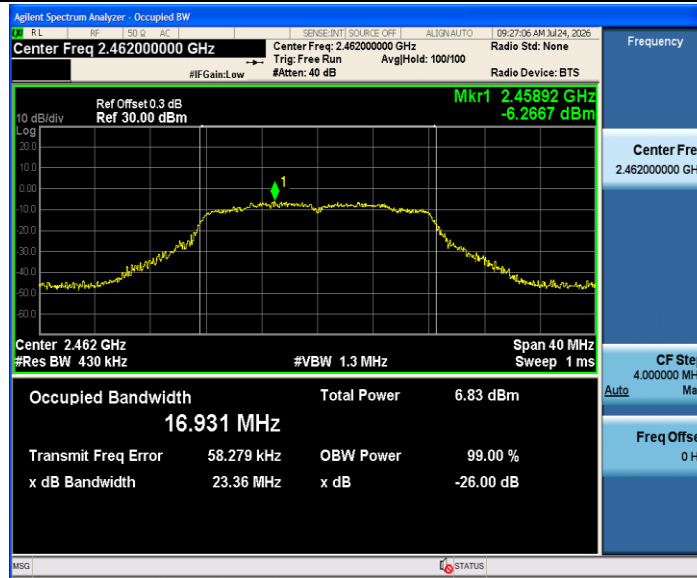
11G_Ant1_2412



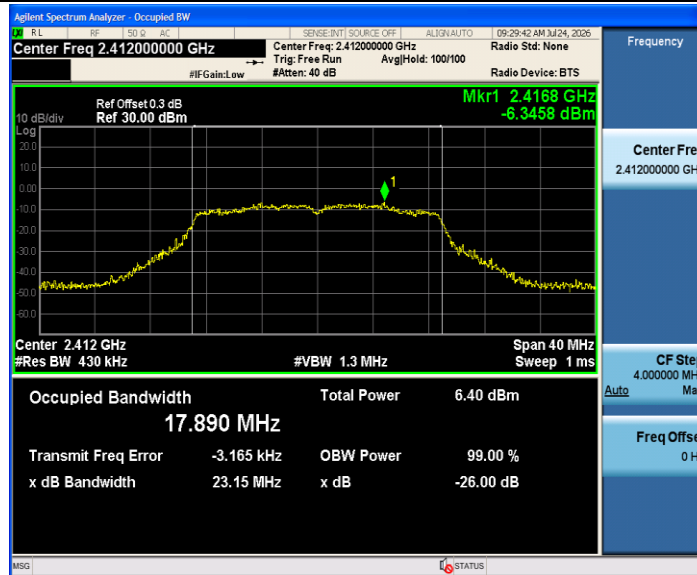
11G_Ant1_2437



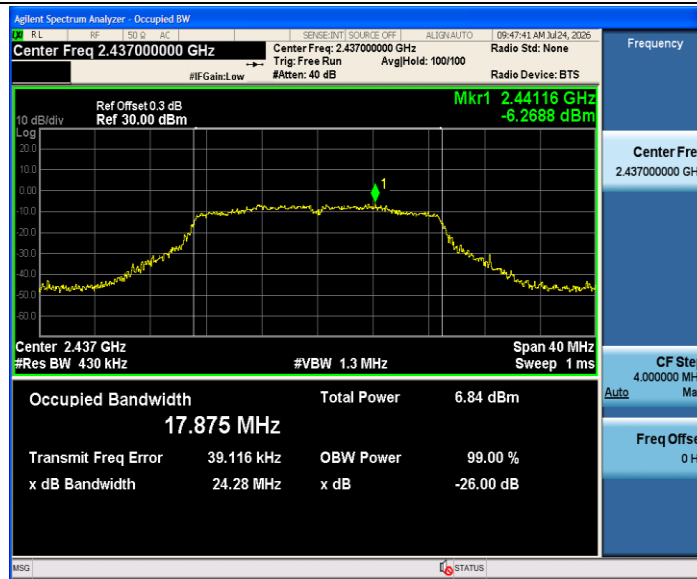
11G_Ant1_2462



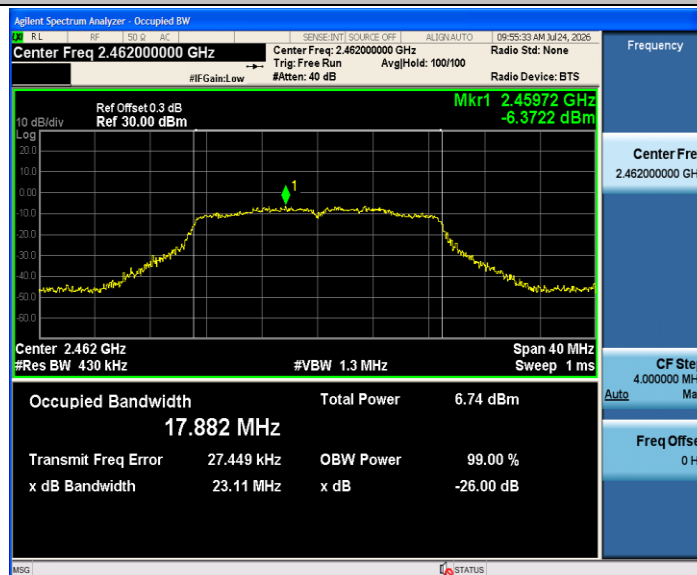
11N20SISO_Ant1_2412



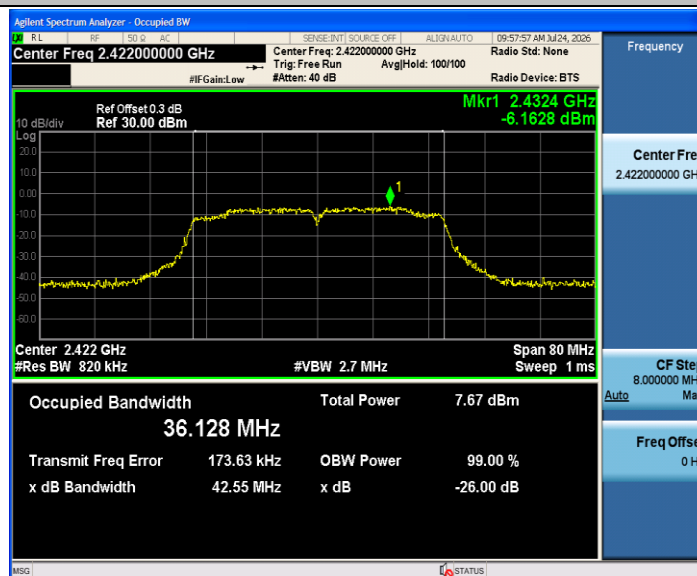
11N20SISO_Ant1_2437



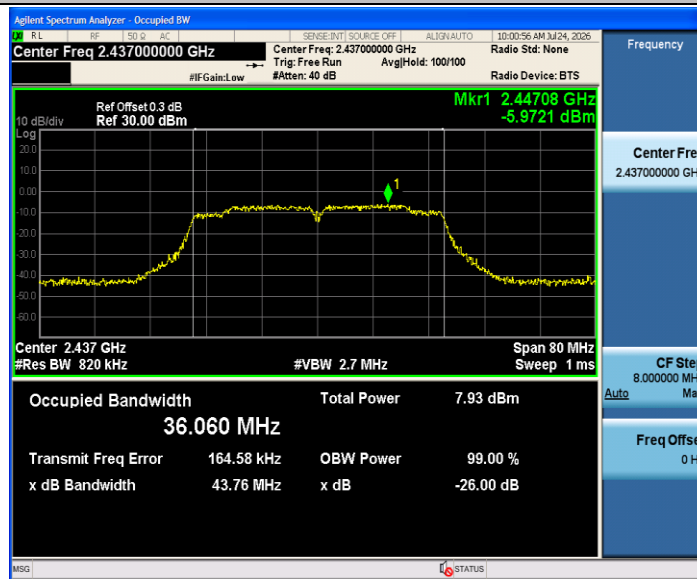
11N20SISO_Ant1_2462



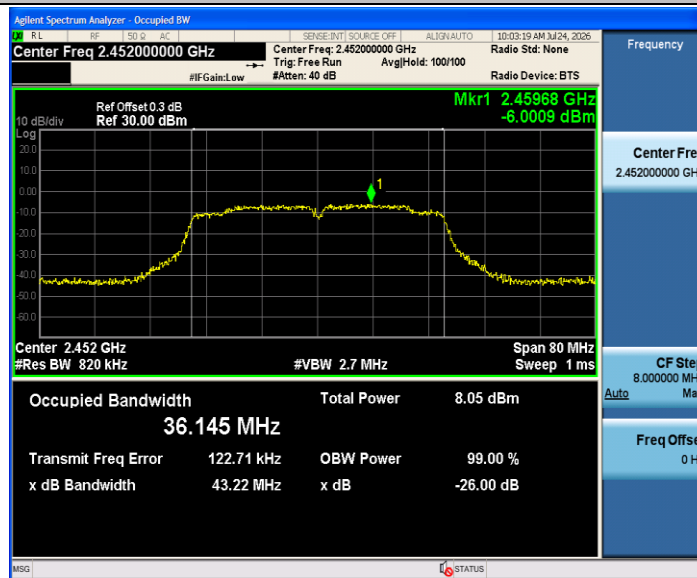
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	8.61	≤30.00	PASS
		2437	8.73	≤30.00	PASS
		2462	8.84	≤30.00	PASS
11G	Ant1	2412	7.47	≤30.00	PASS
		2437	7.57	≤30.00	PASS
		2462	7.76	≤30.00	PASS
11N20SISO	Ant1	2412	7.16	≤30.00	PASS
		2437	7.53	≤30.00	PASS
		2462	7.75	≤30.00	PASS
11N40SISO	Ant1	2422	7.77	≤30.00	PASS
		2437	7.97	≤30.00	PASS
		2452	8.14	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

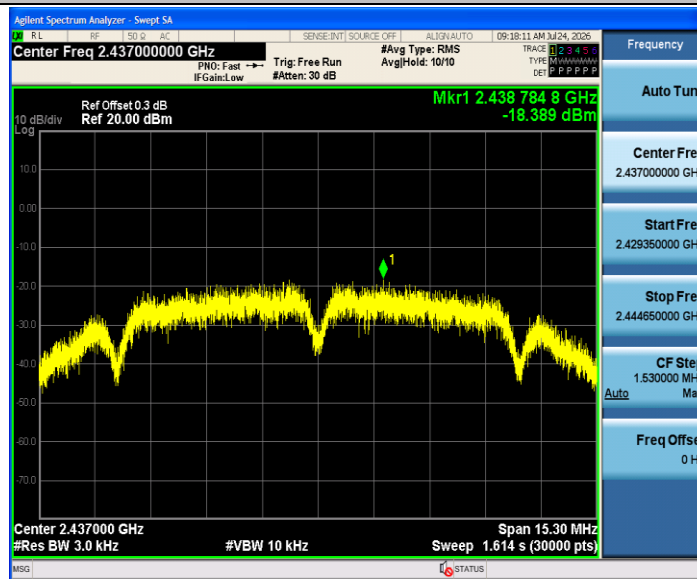
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.67	≤8.00	PASS
		2437	-18.39	≤8.00	PASS
		2462	-17.76	≤8.00	PASS
11G	Ant1	2412	-24.05	≤8.00	PASS
		2437	-24.45	≤8.00	PASS
		2462	-23.15	≤8.00	PASS
11N20SISO	Ant1	2412	-23.20	≤8.00	PASS
		2437	-24.65	≤8.00	PASS
		2462	-23.28	≤8.00	PASS
11N40SISO	Ant1	2422	-26.21	≤8.00	PASS
		2437	-26.70	≤8.00	PASS
		2452	-25.98	≤8.00	PASS

Test Graphs

11B_Ant1_2412



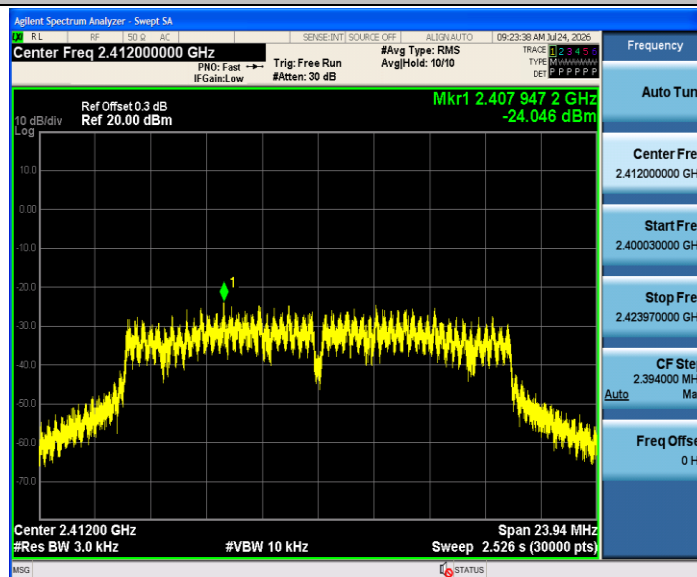
11B_Ant1_2437



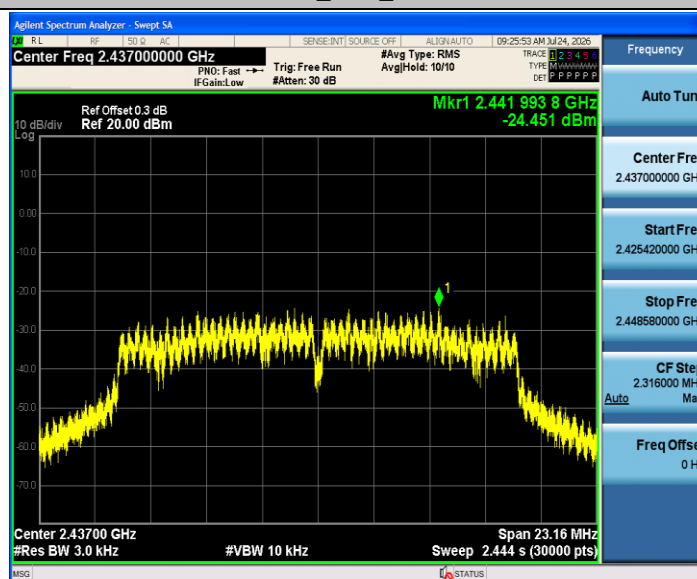
11B_Ant1_2462



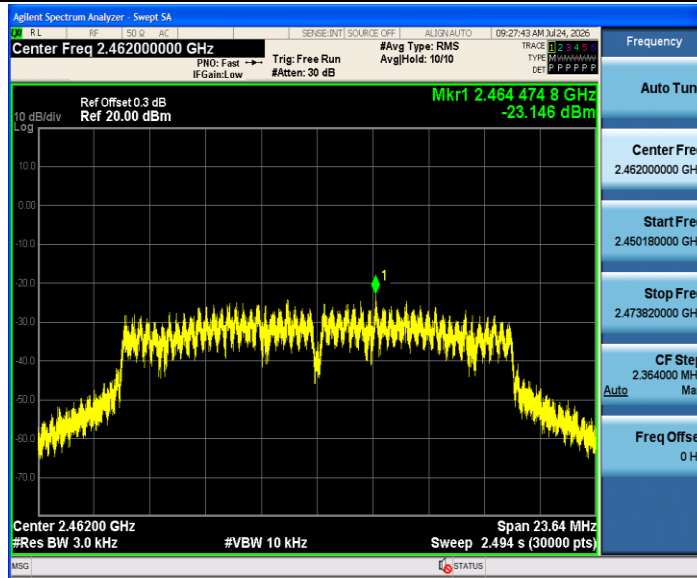
11G_Ant1_2412



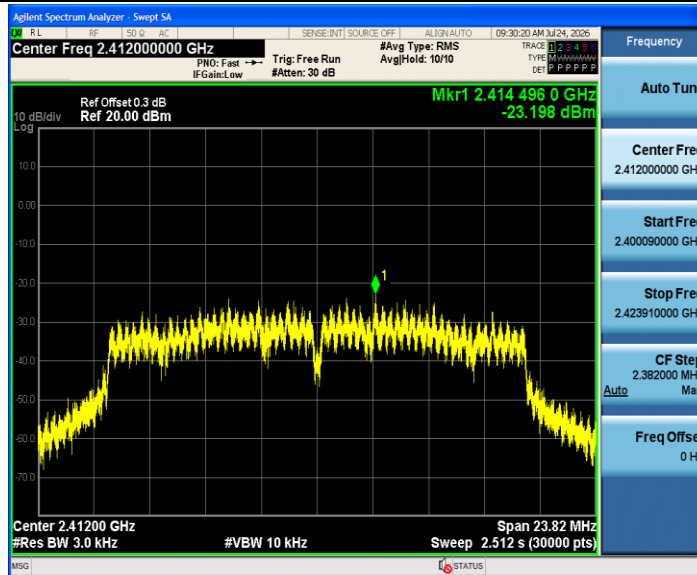
11G_Ant1_2437



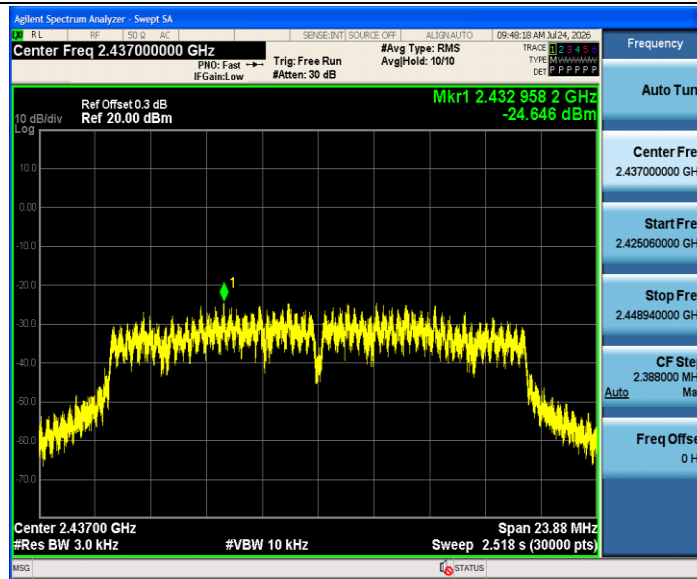
11G_Ant1_2462



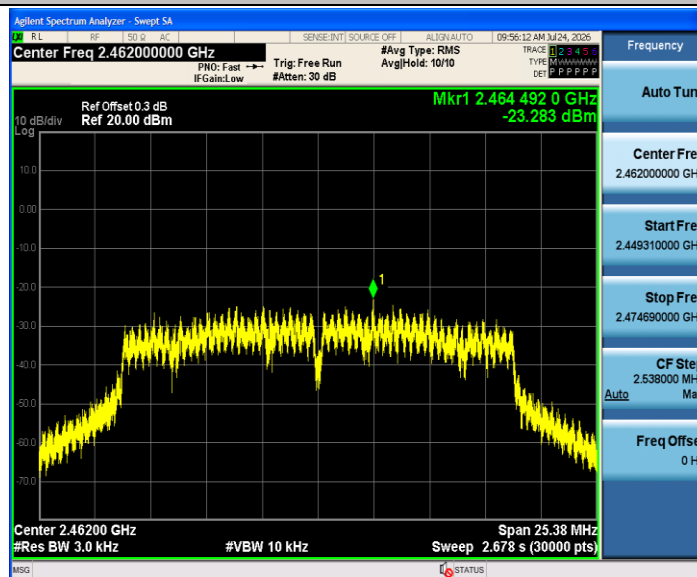
11N20SISO_Ant1_2412



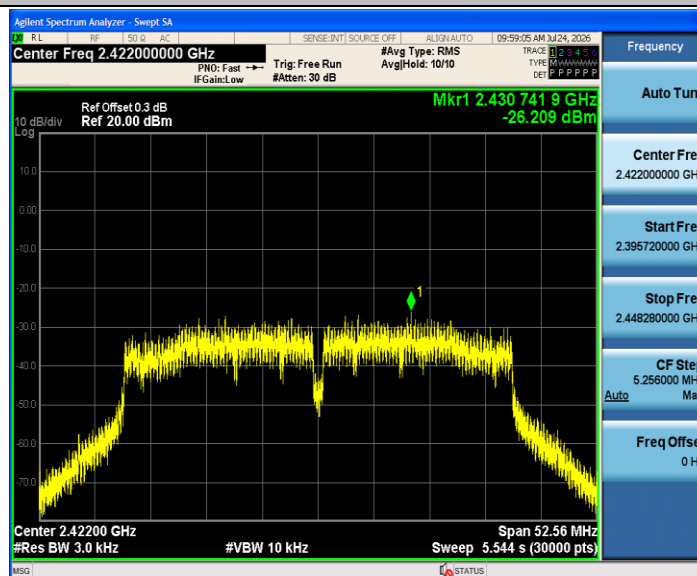
11N20SISO_Ant1_2437



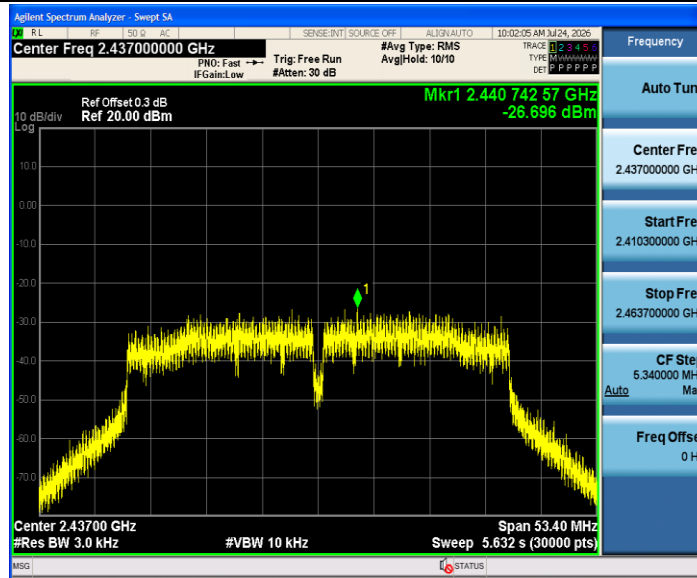
11N20SISO_Ant1_2462



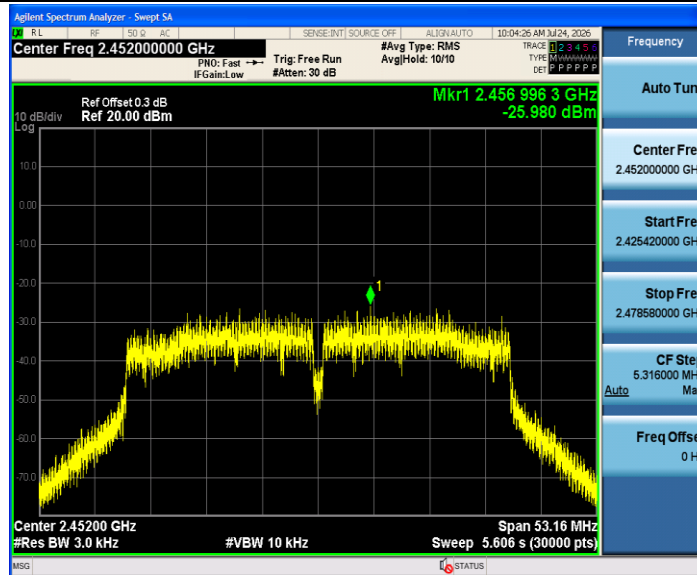
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



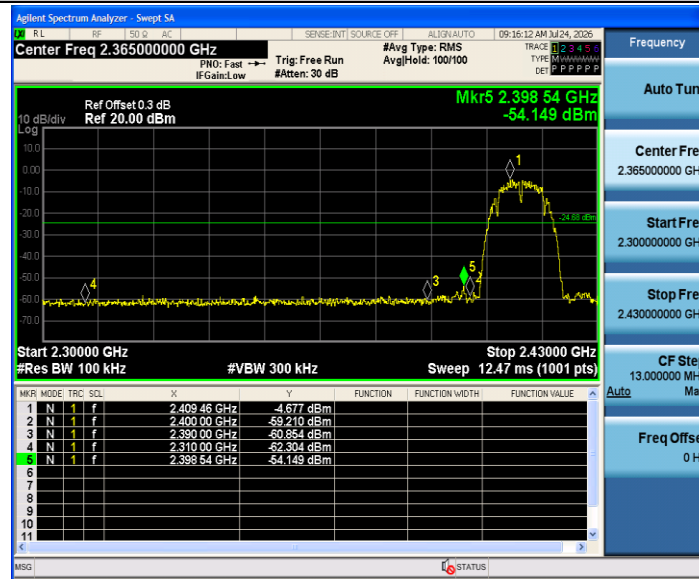
Appendix E: Band edge measurements

Test Result

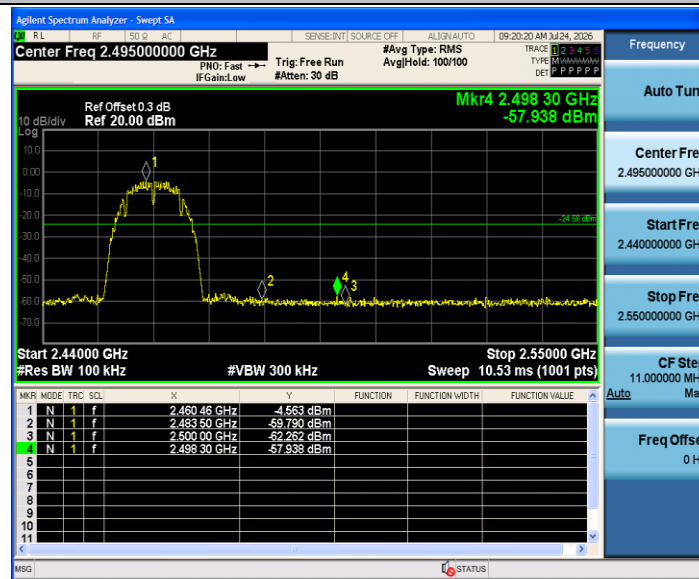
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.68	-54.15	≤-24.68	PASS
		High	2462	-4.56	-57.94	≤-24.56	PASS
11G	Ant1	Low	2412	-9.27	-40.31	≤-29.27	PASS
		High	2462	-8.45	-58.65	≤-28.45	PASS
11N20SISO	Ant1	Low	2412	-8.97	-41.01	≤-28.97	PASS
		High	2462	-8.79	-57.55	≤-28.79	PASS
11N40SISO	Ant1	Low	2422	-12.12	-41.14	≤-32.12	PASS
		High	2452	-11.98	-57.67	≤-31.98	PASS

Test Graphs

11B_Ant1_Low_2412



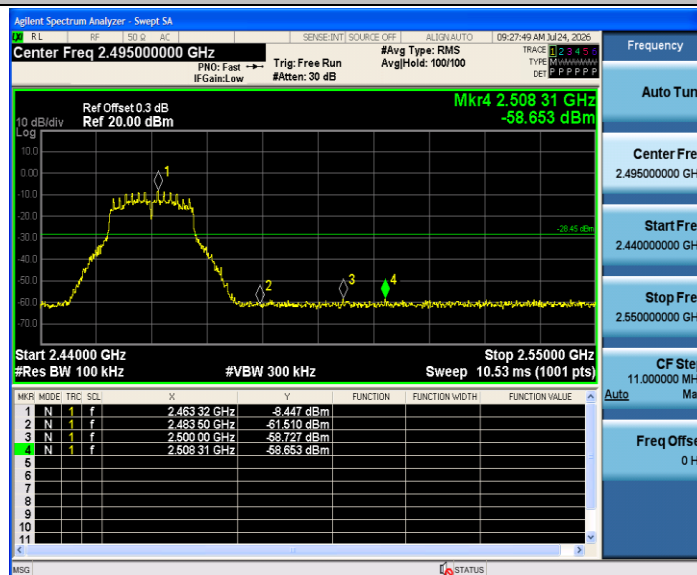
11B_Ant1_High_2462



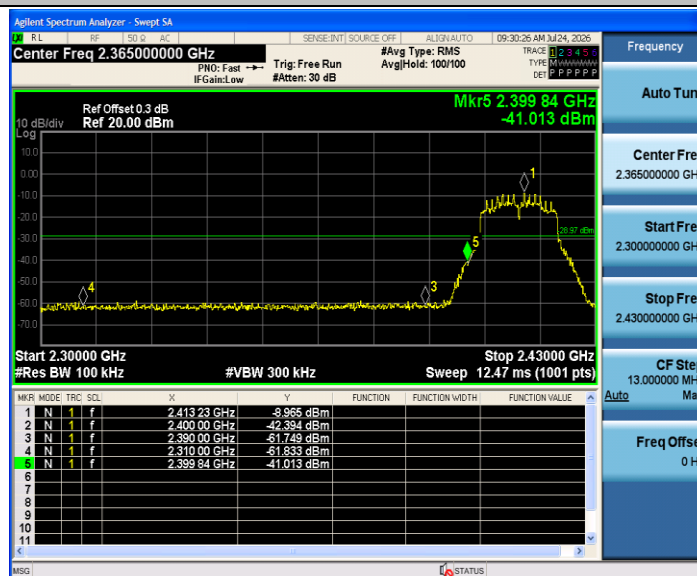
11G_Ant1_Low_2412



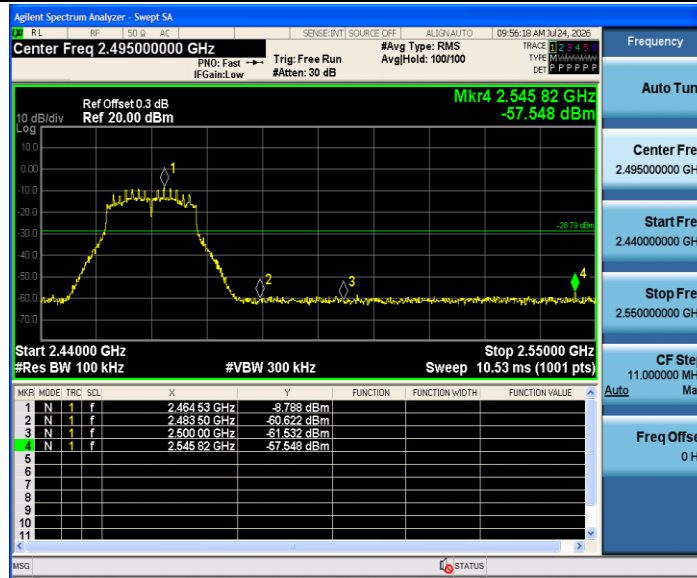
11G_Ant1_High_2462



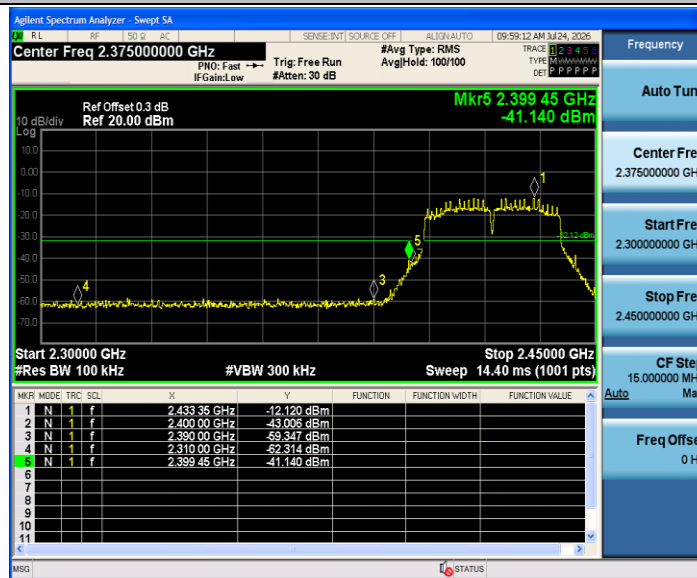
11N20SISO_Ant1_Low_2412



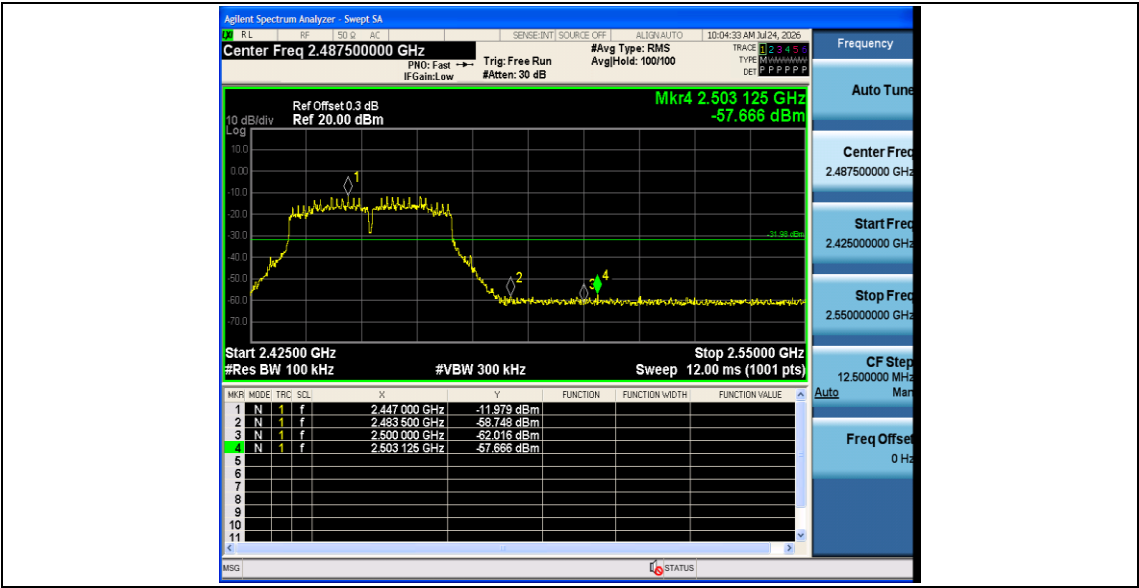
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

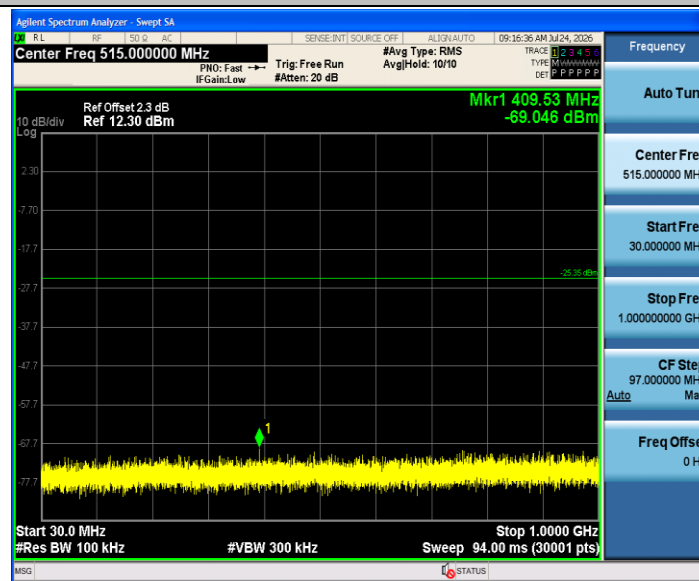
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.35	-5.35	---	PASS
			30~1000	-5.35	-69.05	≤-25.35	PASS
			1000~26500	-5.35	-46.77	≤-25.35	PASS
		2437	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-69.73	≤-25.15	PASS
			1000~26500	-5.15	-47.09	≤-25.15	PASS
		2462	Reference	-4.33	-4.33	---	PASS
			30~1000	-4.33	-68.82	≤-24.33	PASS
			1000~26500	-4.33	-46.93	≤-24.33	PASS
11G	Ant1	2412	Reference	-9.07	-9.07	---	PASS
			30~1000	-9.07	-68.76	≤-29.07	PASS
			1000~26500	-9.07	-46.89	≤-29.07	PASS
		2437	Reference	-8.99	-8.99	---	PASS
			30~1000	-8.99	-69.22	≤-28.99	PASS
			1000~26500	-8.99	-46.82	≤-28.99	PASS
		2462	Reference	-9.76	-9.76	---	PASS
			30~1000	-9.76	-69.28	≤-29.76	PASS
			1000~26500	-9.76	-46.87	≤-29.76	PASS
11N20SISO	Ant1	2412	Reference	-9.28	-9.28	---	PASS
			30~1000	-9.28	-64.07	≤-29.28	PASS
			1000~26500	-9.28	-46.48	≤-29.28	PASS
		2437	Reference	-9.56	-9.56	---	PASS
			30~1000	-9.56	-68.72	≤-29.56	PASS
			1000~26500	-9.56	-46.69	≤-29.56	PASS
		2462	Reference	-9.16	-9.16	---	PASS
			30~1000	-9.16	-69.21	≤-29.16	PASS
			1000~26500	-9.16	-46.68	≤-29.16	PASS
11N40SISO	Ant1	2422	Reference	-12.33	-12.33	---	PASS
			30~1000	-12.33	-69.29	≤-32.33	PASS
			1000~26500	-12.33	-46.89	≤-32.33	PASS
		2437	Reference	-12.55	-12.55	---	PASS
			30~1000	-12.55	-67.84	≤-32.55	PASS
			1000~26500	-12.55	-46.75	≤-32.55	PASS
		2452	Reference	-12.26	-12.26	---	PASS
			30~1000	-12.26	-69.28	≤-32.26	PASS
			1000~26500	-12.26	-46.02	≤-32.26	PASS

Test Graphs

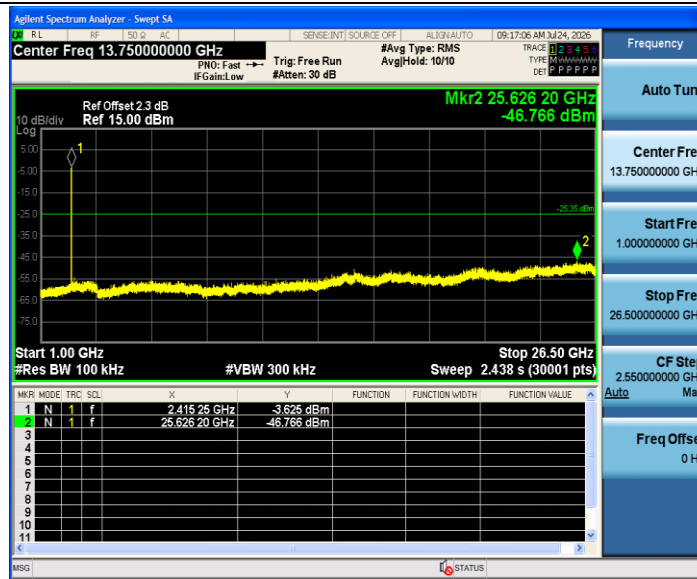
11B_Ant1_2412_0~Reference



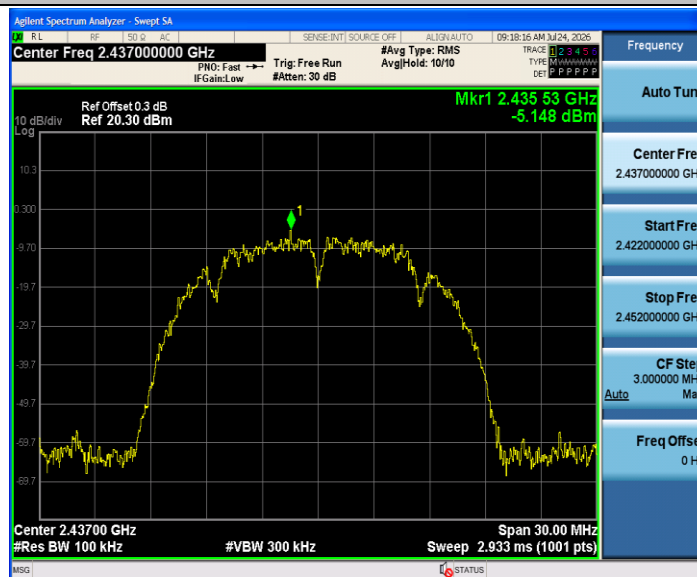
11B_Ant1_2412_30~1000



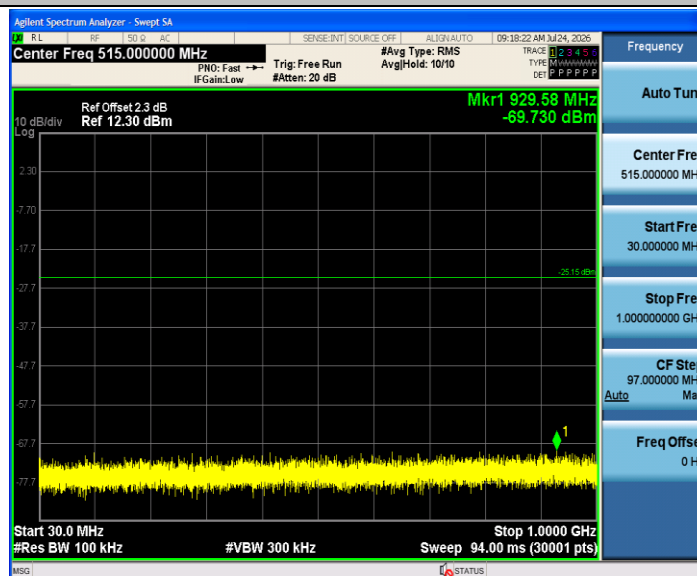
11B_Ant1_2412_1000~26500



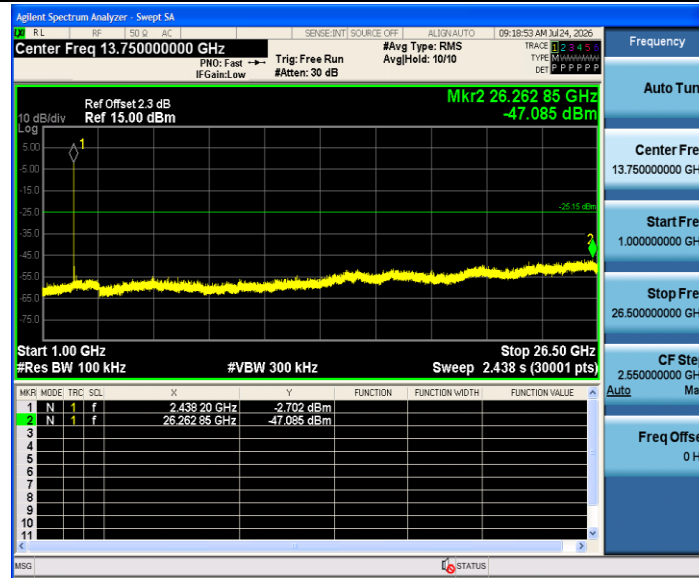
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



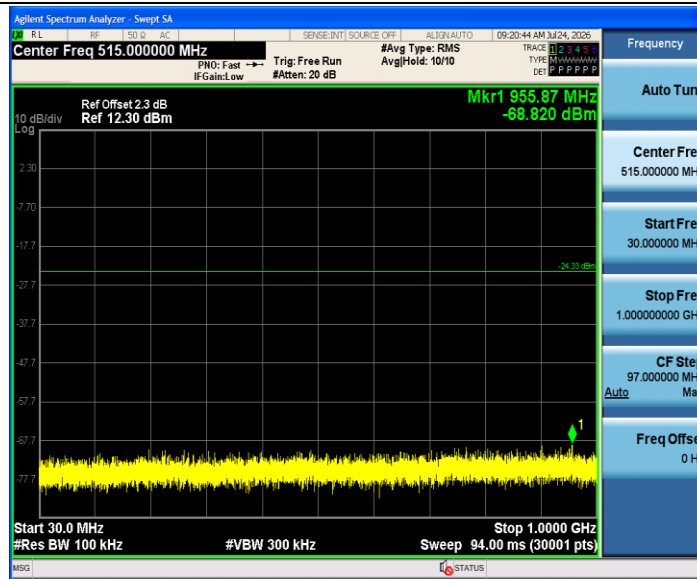
11B_Ant1_2437_1000~26500



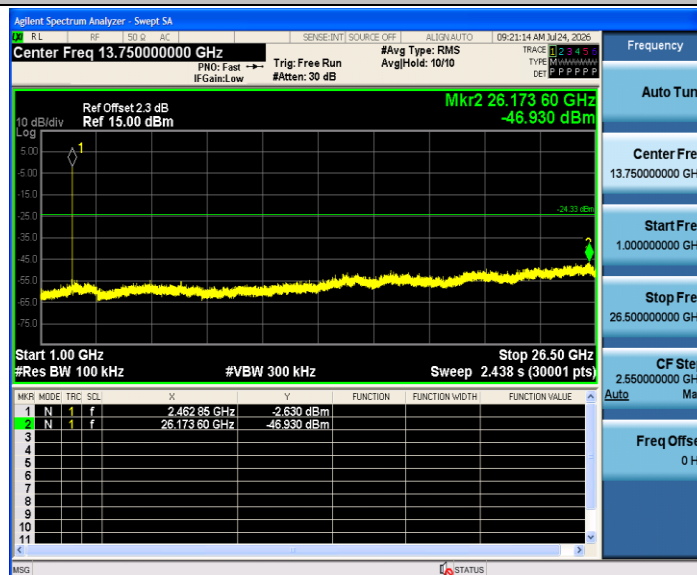
11B_Ant1_2462_0~Reference



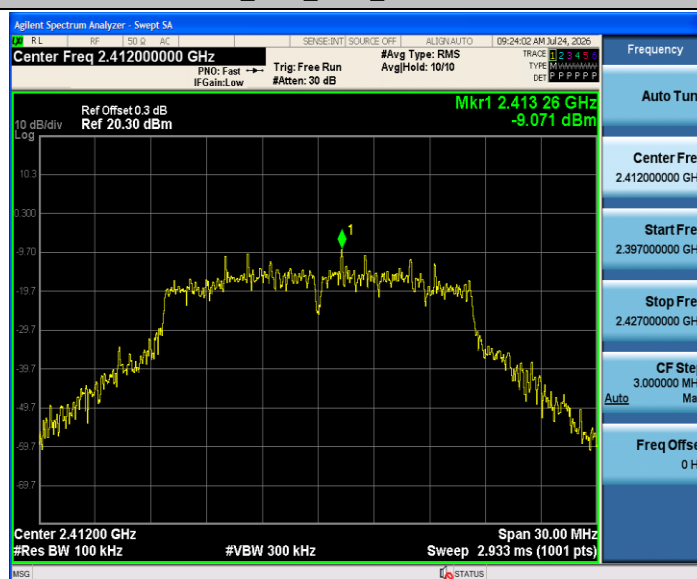
11B_Ant1_2462_30~1000



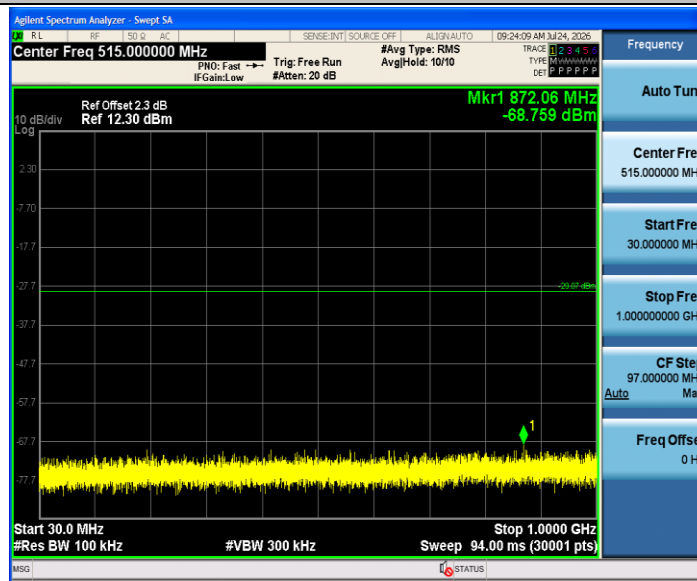
11B_Ant1_2462_1000~26500



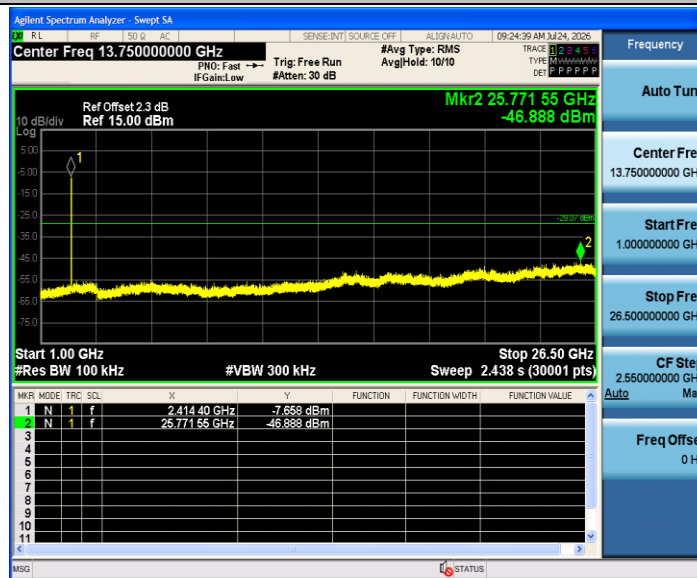
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



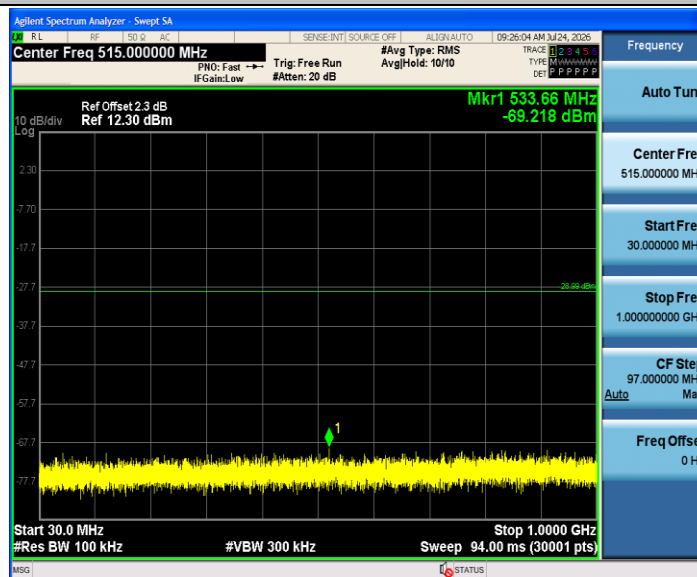
11G_Ant1_2412_1000~26500



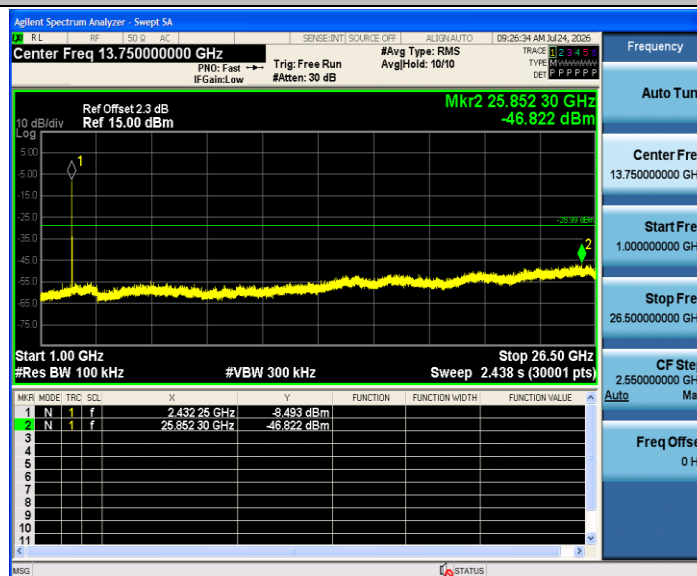
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



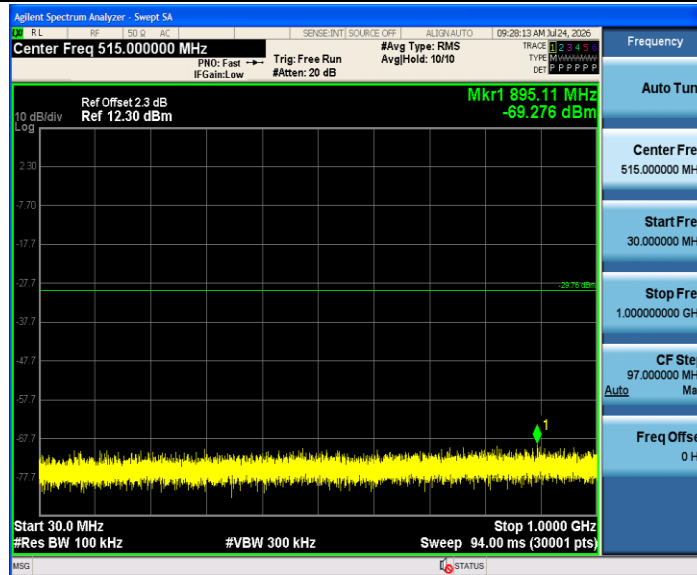
11G_Ant1_2437_1000~26500



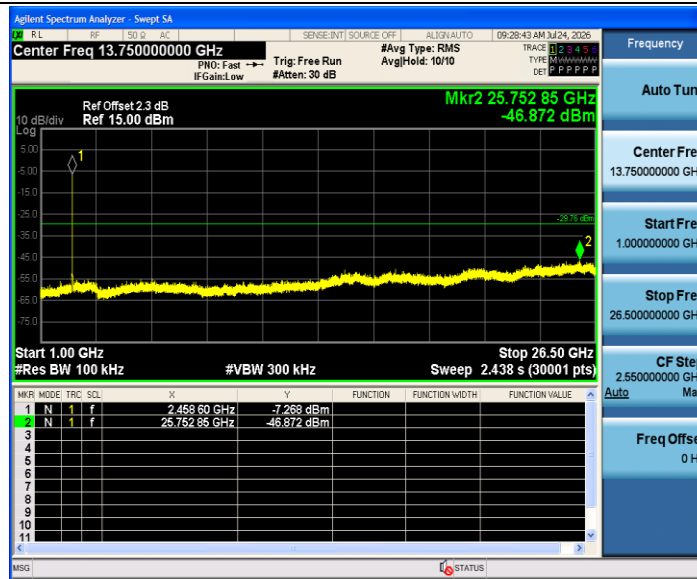
11G_Ant1_2462_0~Reference



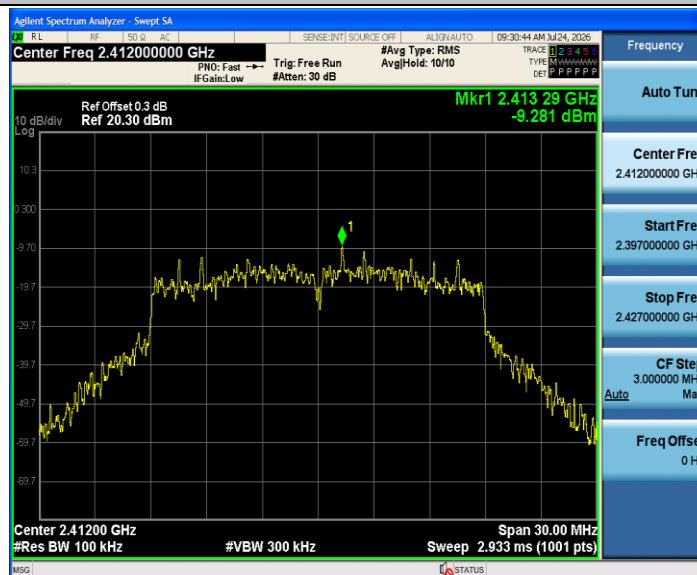
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

